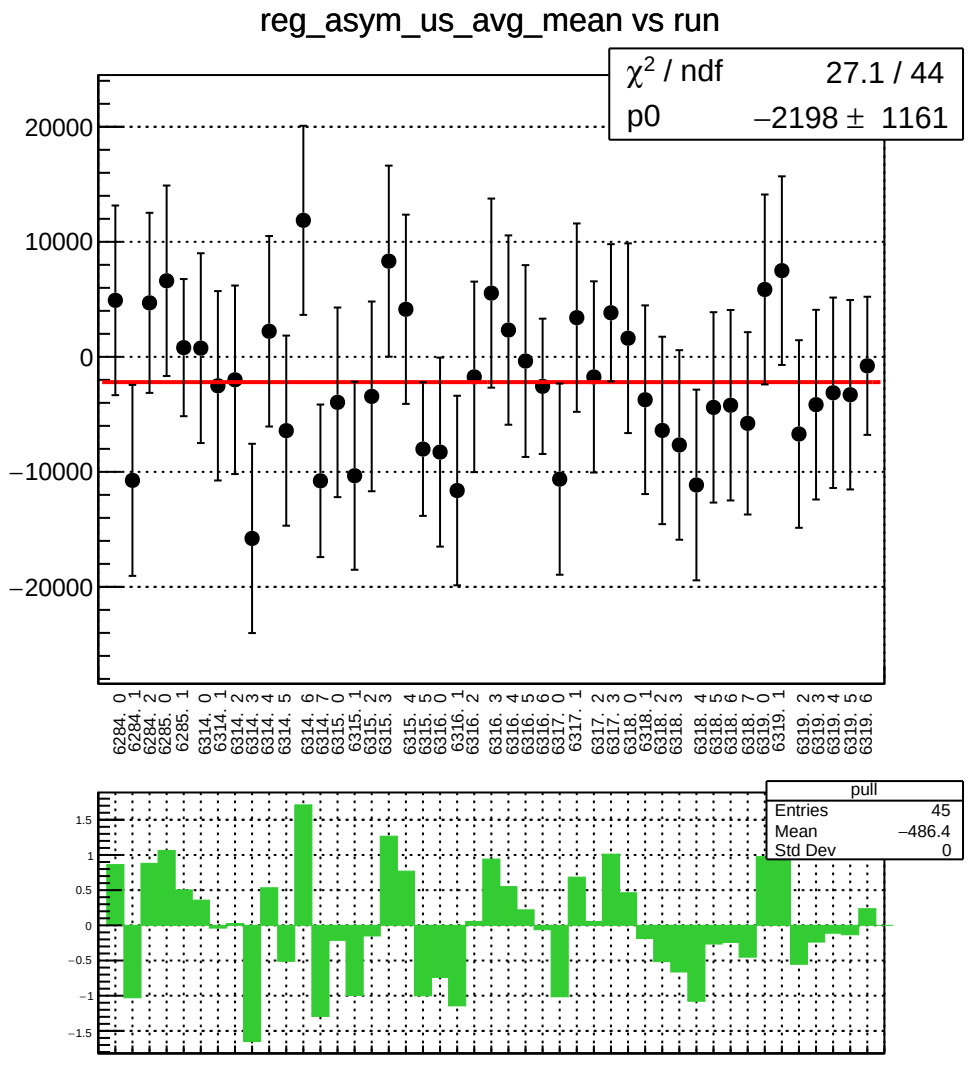
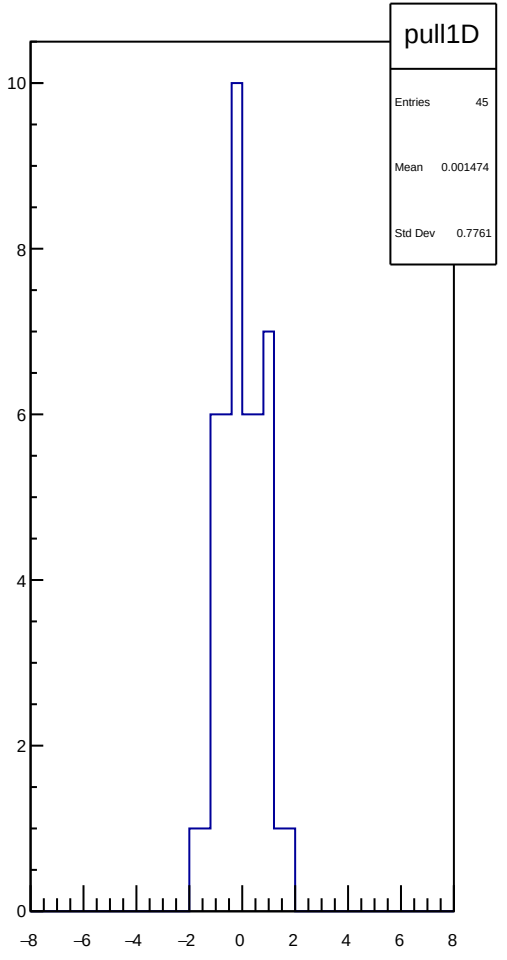
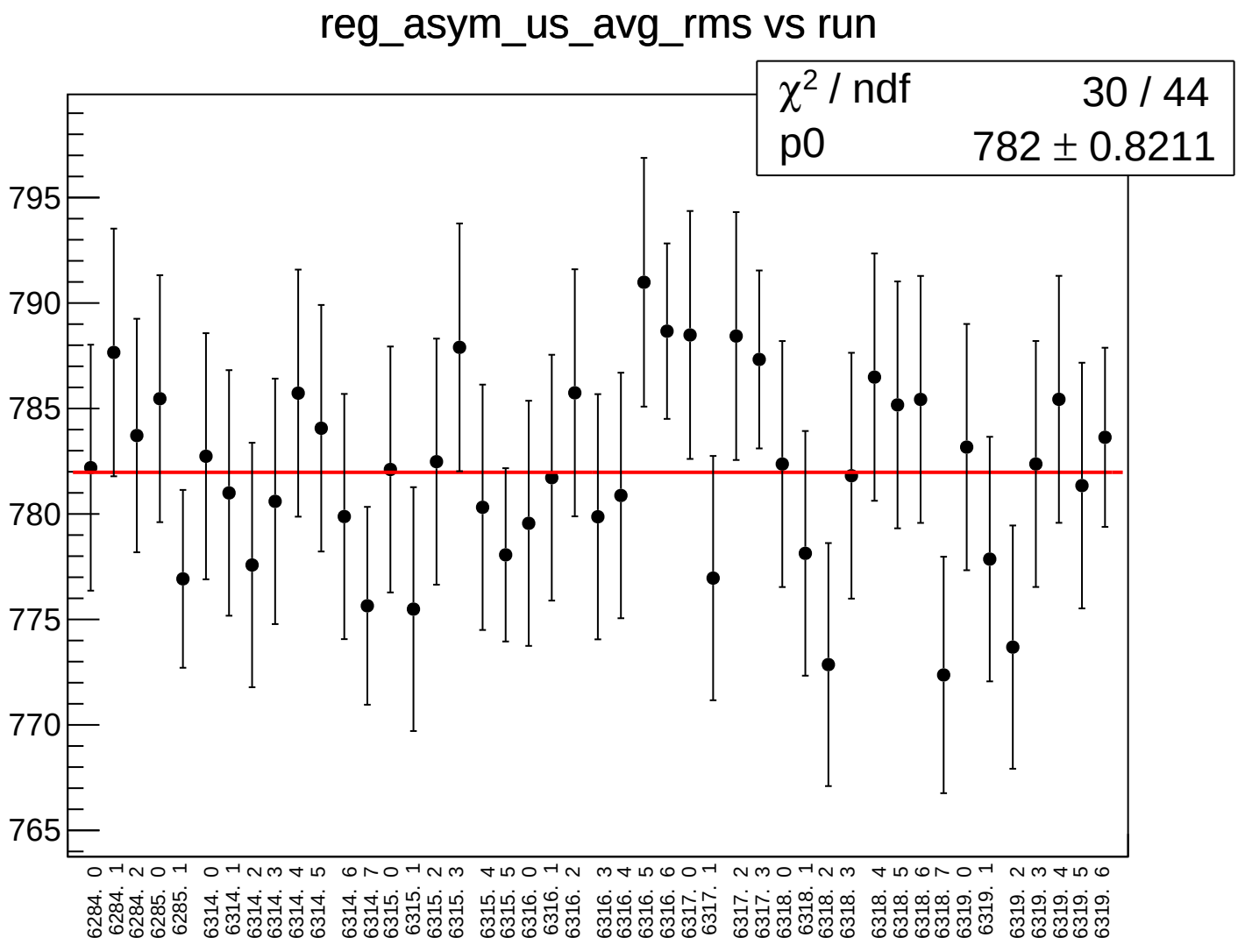

reg_asym_us_avg_mean vs run
χ² / ndf 27.1 / 44
p0 −2198 ± 1161
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −486.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.001474
Std Dev 0.7761
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ^2 / ndf 30 / 44
p0 782 ± 0.8211
795
790
785
780
775
770
765
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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6319. 2
6319. 3
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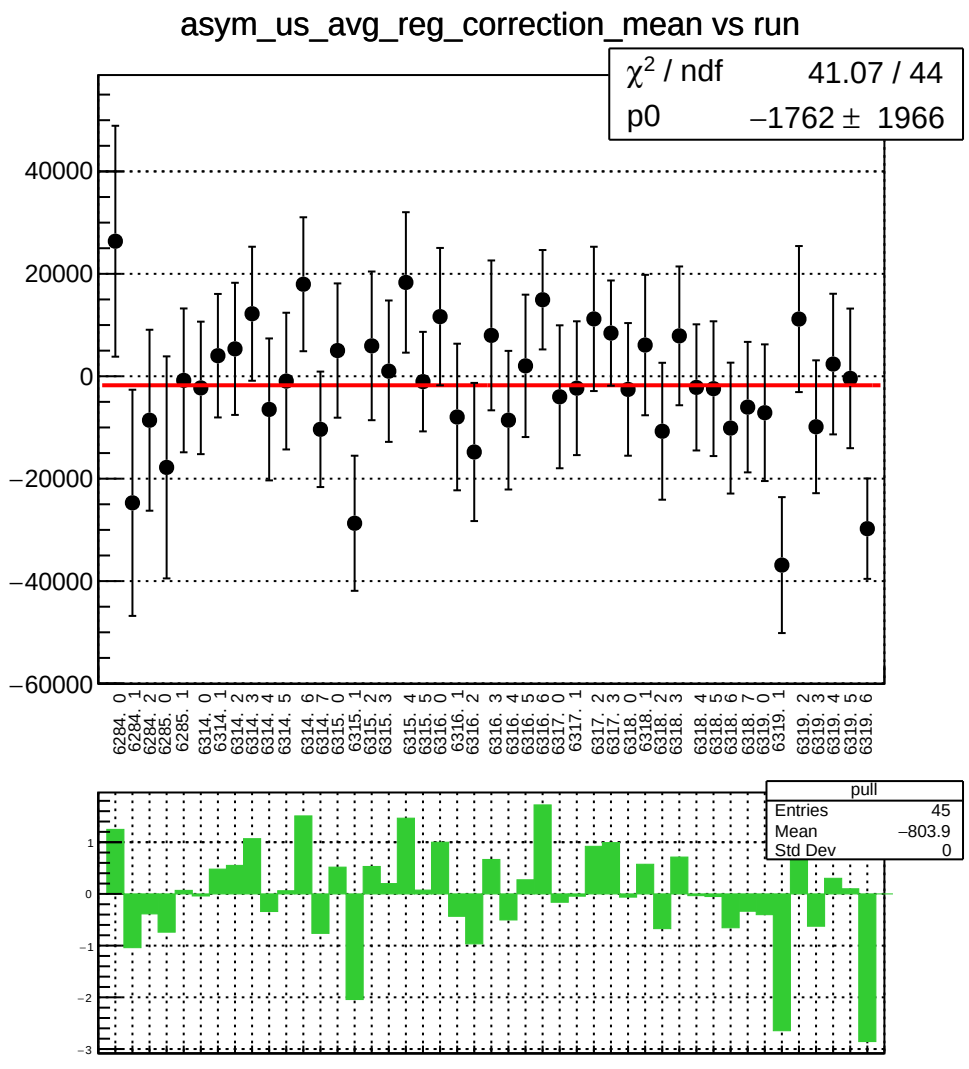
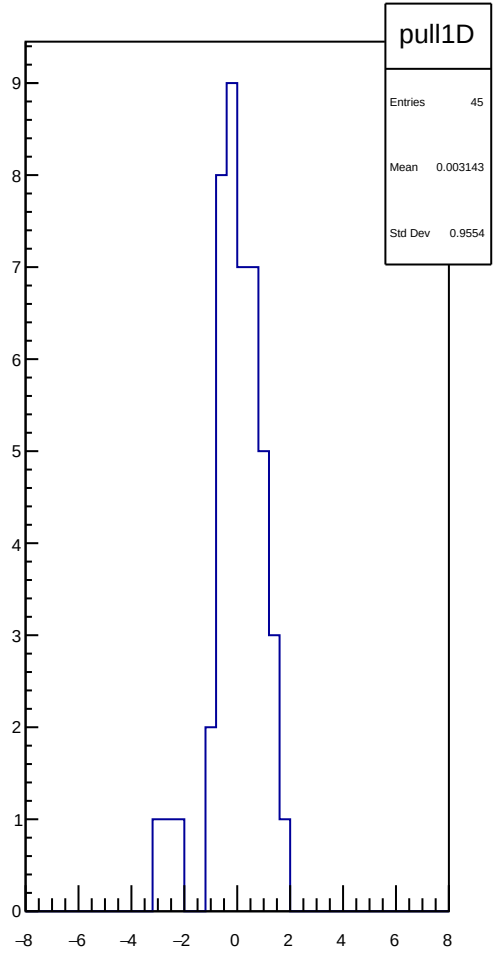
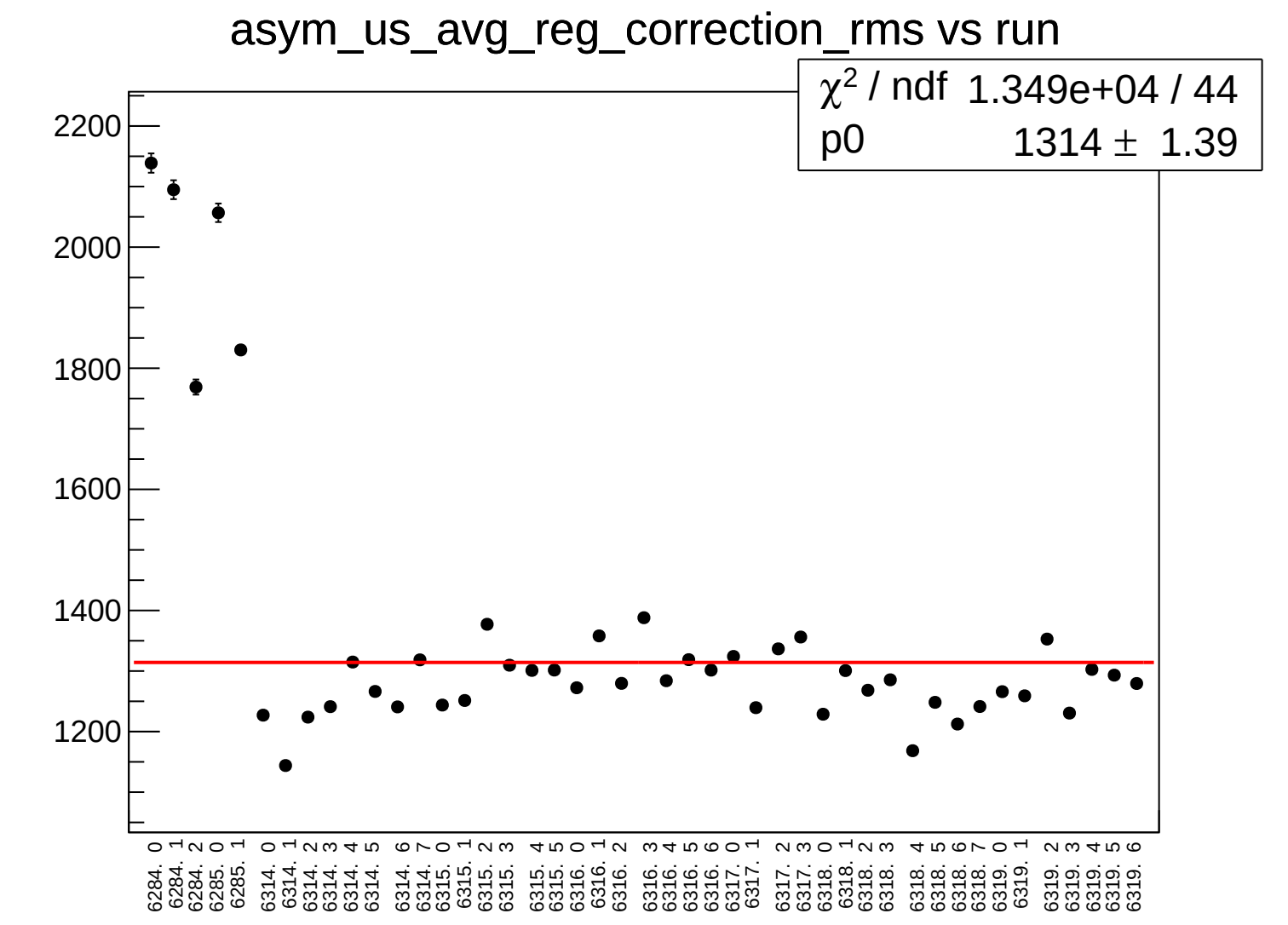
6319. 5
6319. 6


asym_us_avg_reg_correction_mean vs run
χ² / ndf 41.07 / 44
p0 −1762 ± 1966
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −803.9
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003143
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.349e+04 / 44
p0 1314 ± 1.39
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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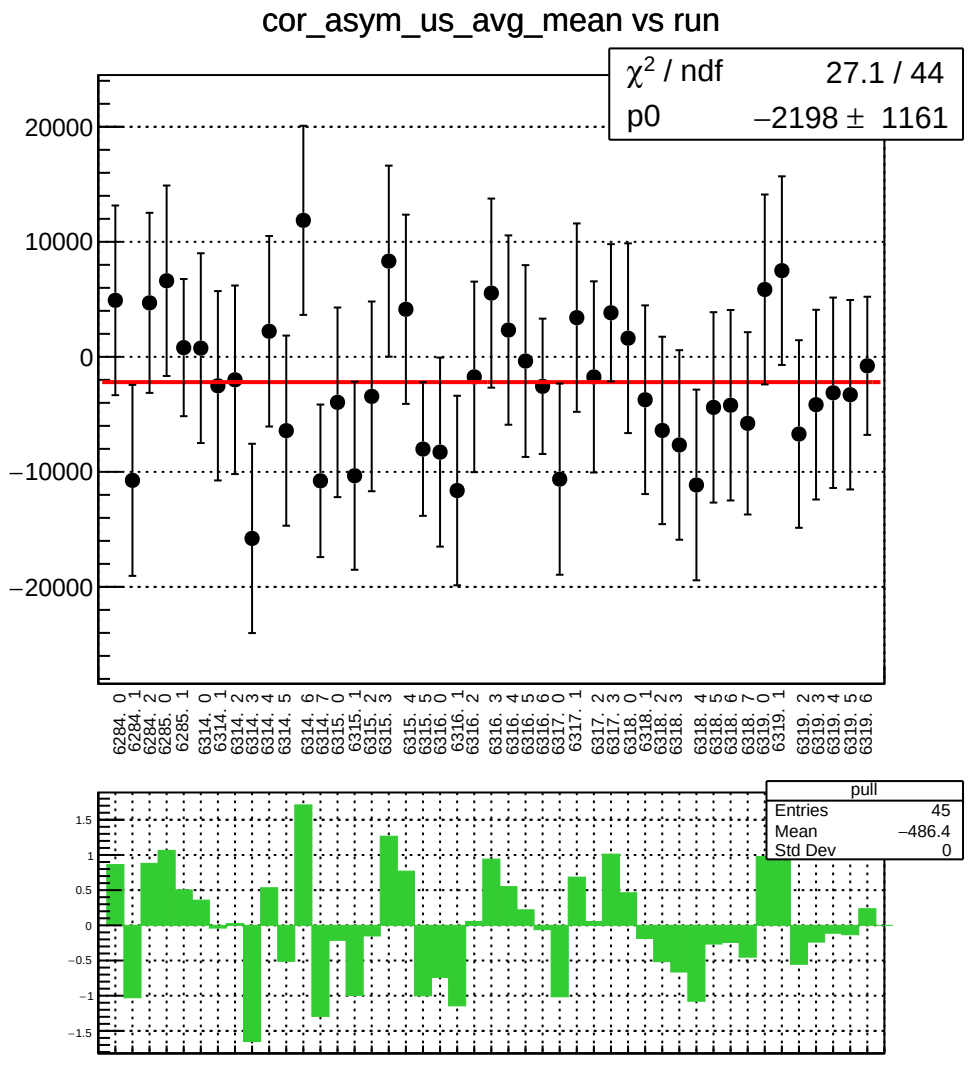
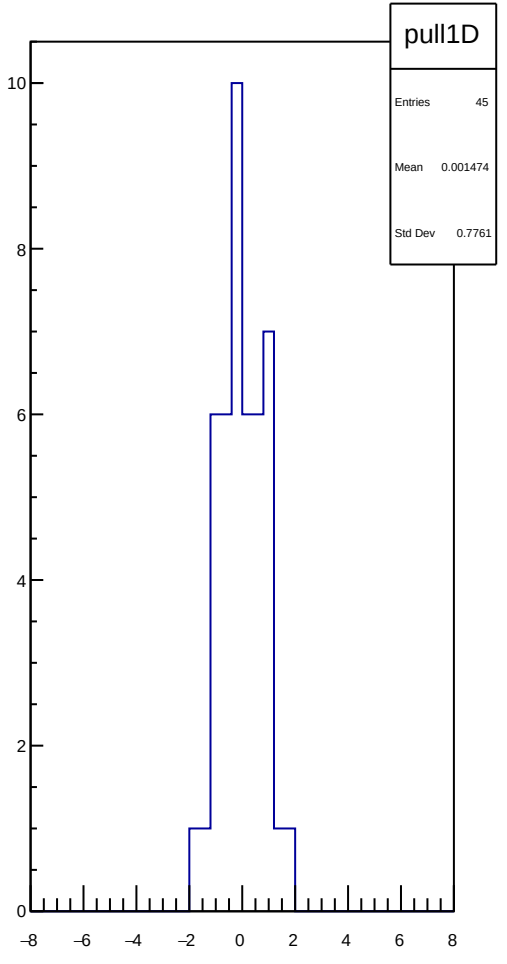
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_us_avg_mean vs run
χ² / ndf 27.1 / 44
p0 −2198 ± 1161
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −486.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.001474
Std Dev 0.7761
10
8
6
4
2
0
−8
−6
−4
−2
0
2
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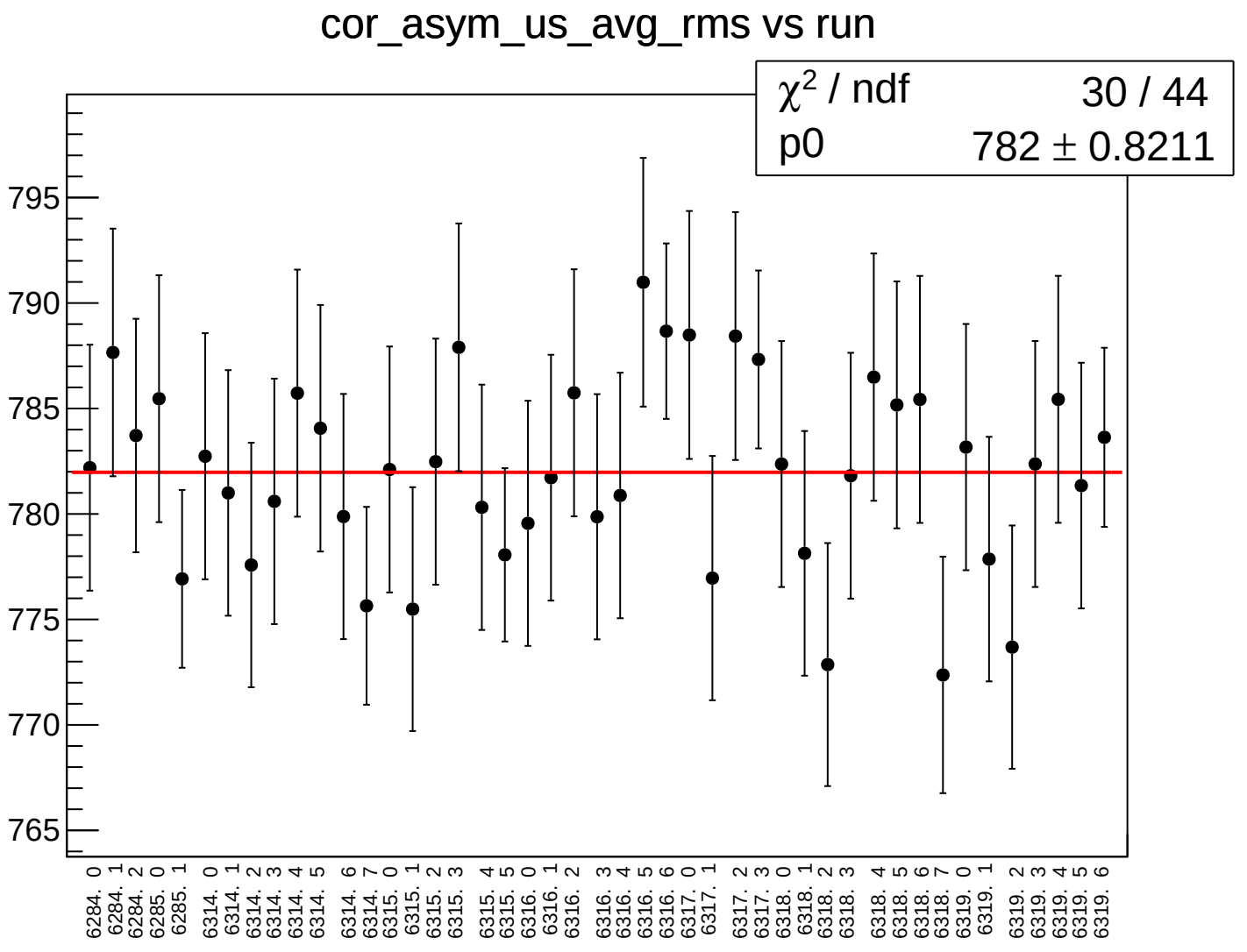
cor_asym_us_avg_rms vs run
χ^2 / ndf 30 / 44
p0 782 ± 0.8211
795
790
785
780
775
770
765
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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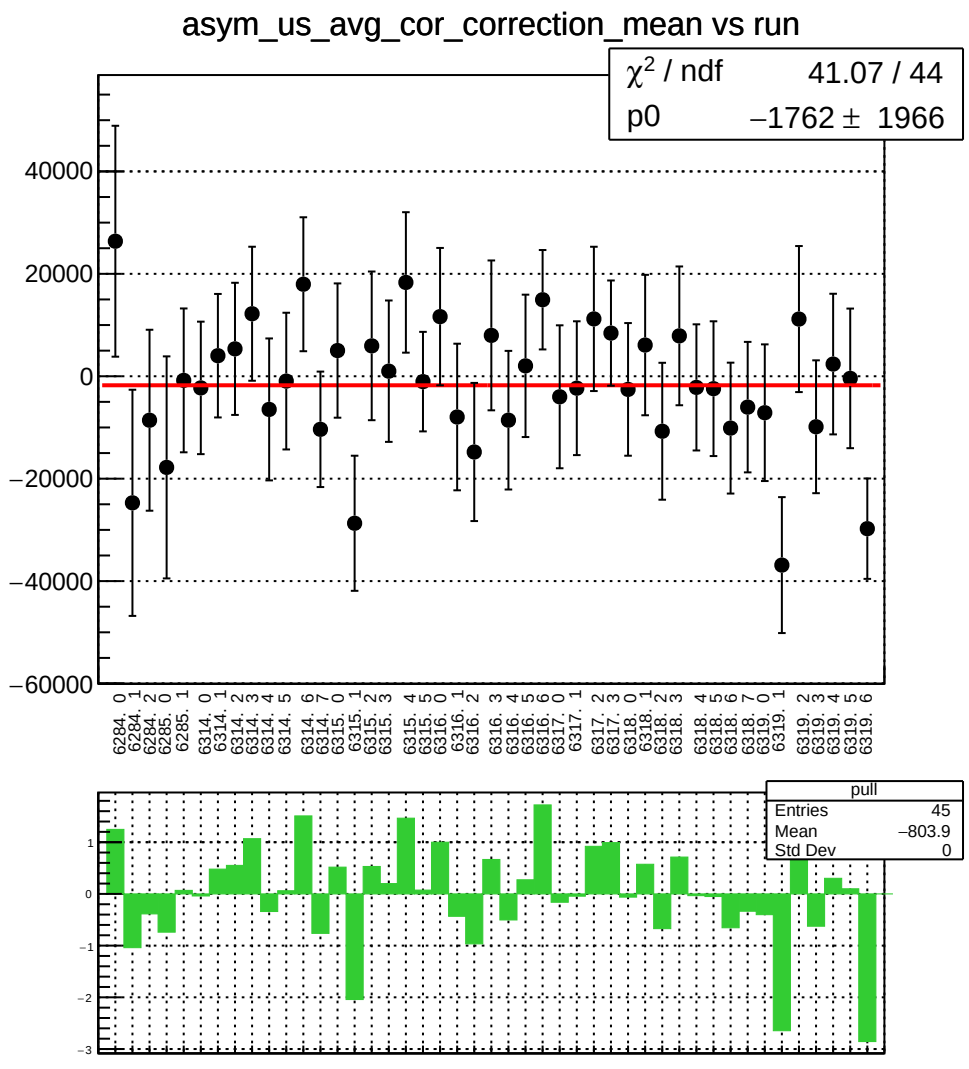
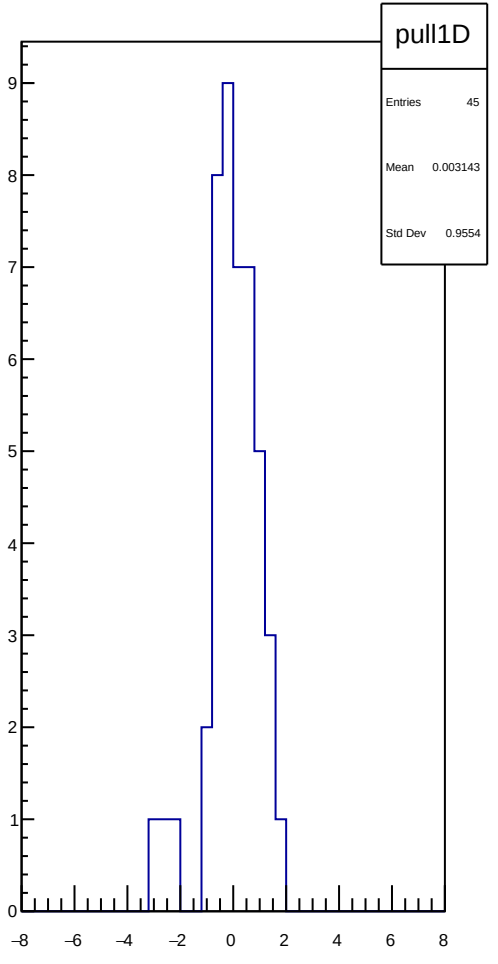
6319. 4
6319. 5
6319. 6


asym_us_avg_cor_correction_mean vs run
χ² / ndf 41.07 / 44
p0 −1762 ± 1966
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −803.9
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003143
Std Dev 0.9554
9
8
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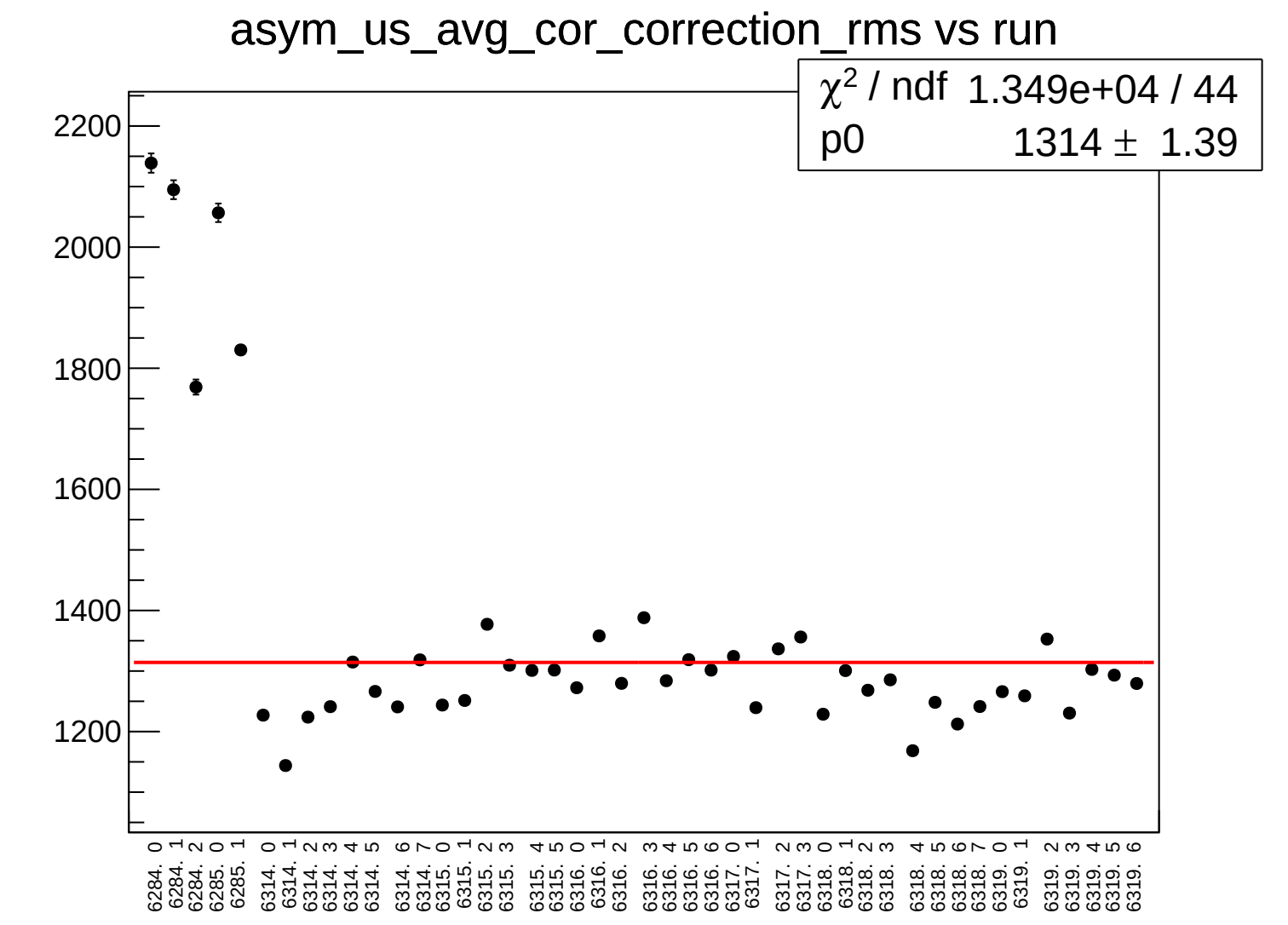
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 44
p0 1314 ± 1.39
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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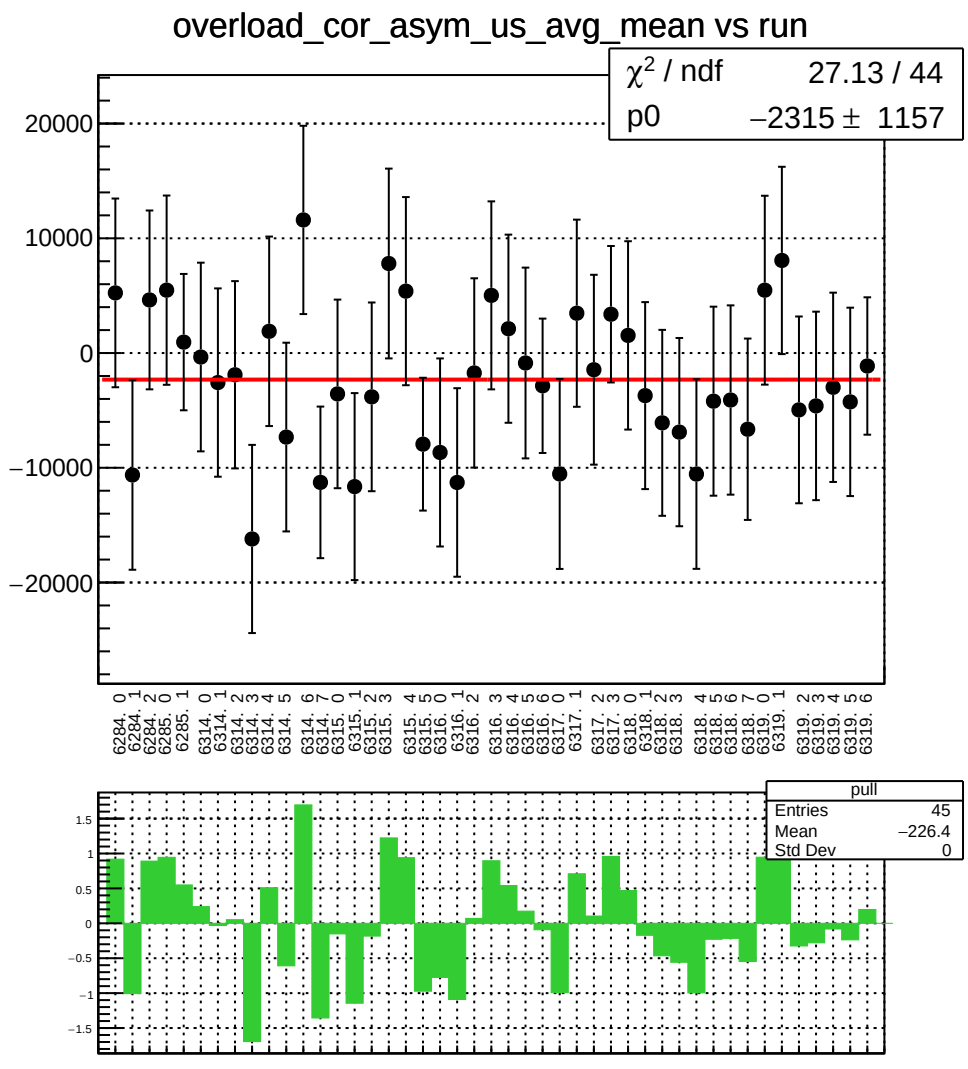
6319. 5
6319. 6


overload_cor_asym_us_avg_mean vs run
χ² / ndf 27.13 / 44
p0 −2315 ± 1157
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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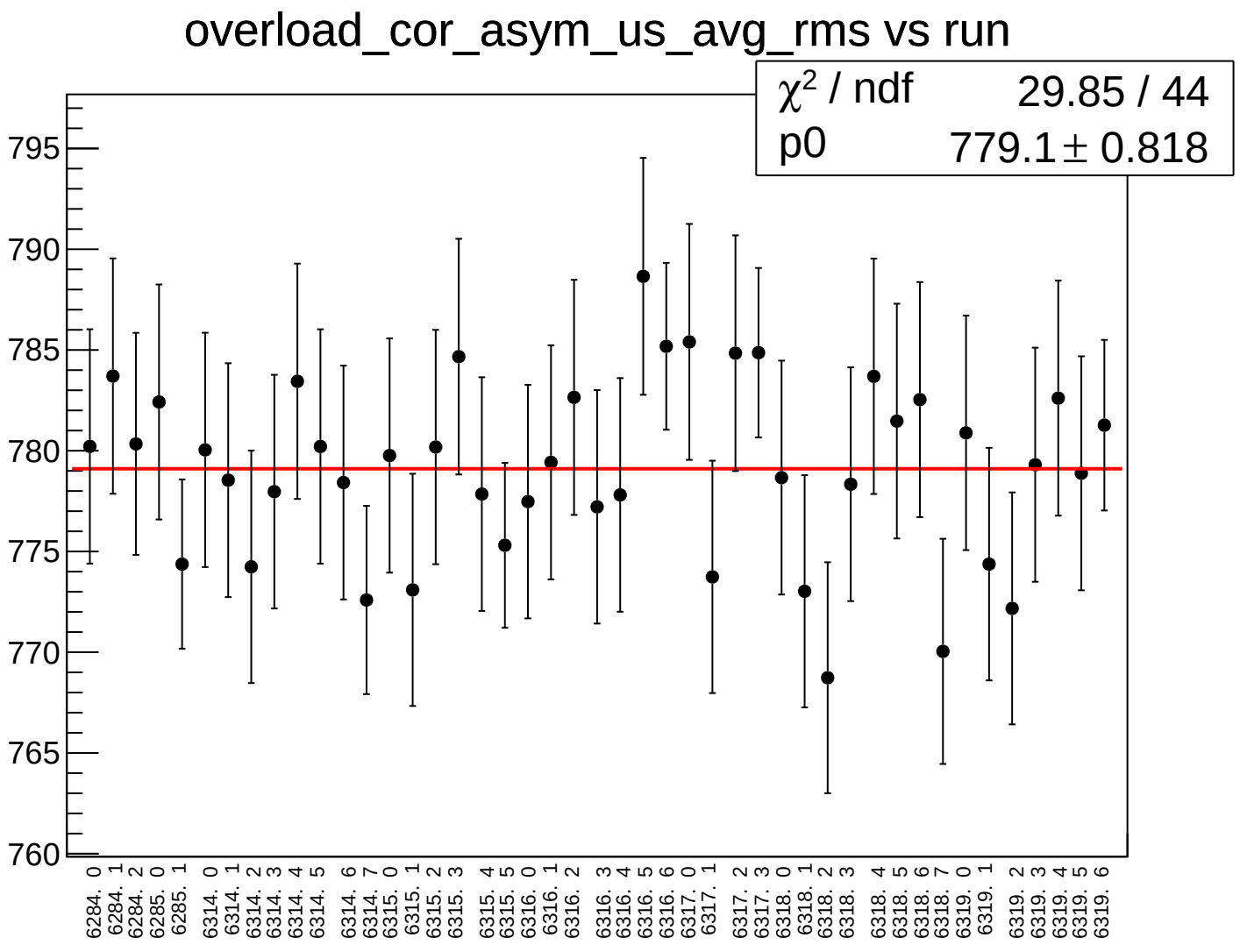
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −226.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.00228
Std Dev 0.7765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 29.85 / 44
p0 779.1 ± 0.818
795
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 1
6319. 2
6319. 3
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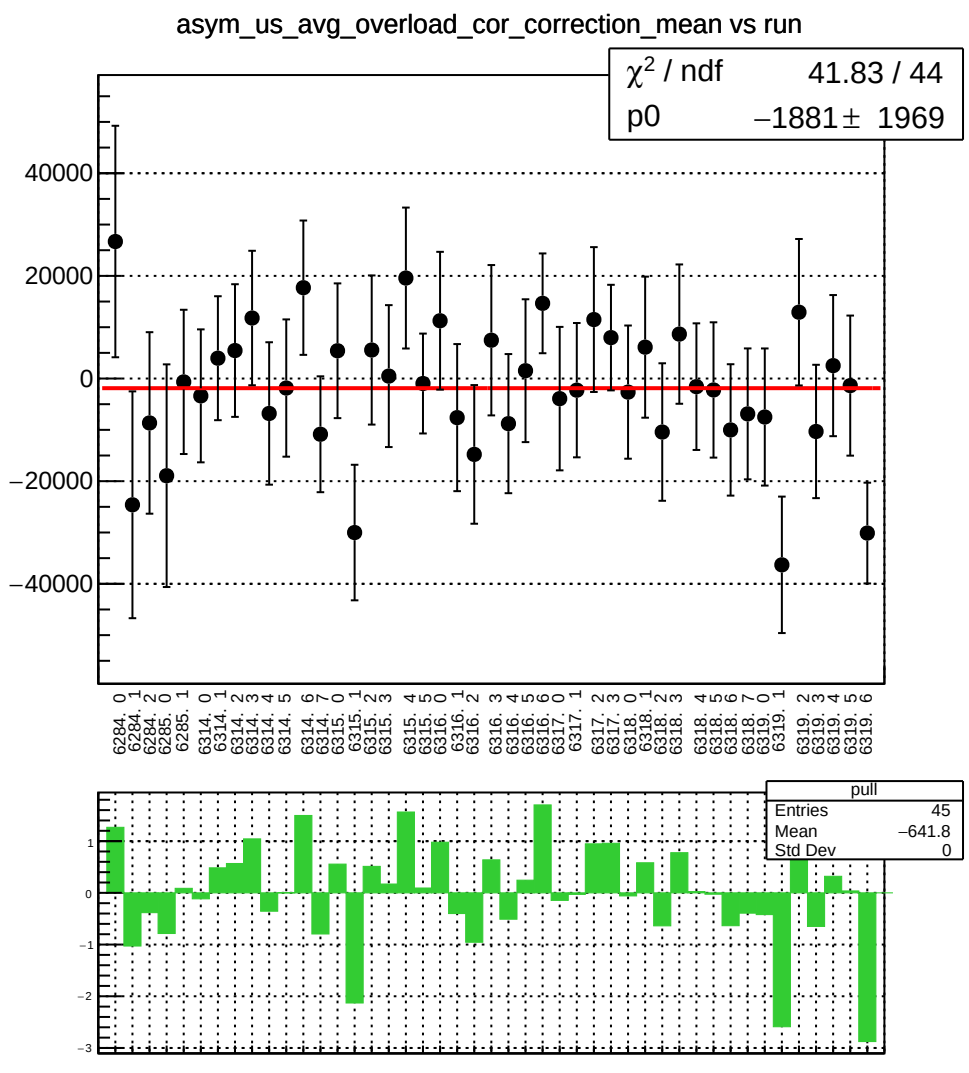
6319. 5
6319. 6


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 41.83 / 44
p0 −1881 ± 1969
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6316. 0
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6316. 2
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6316. 6
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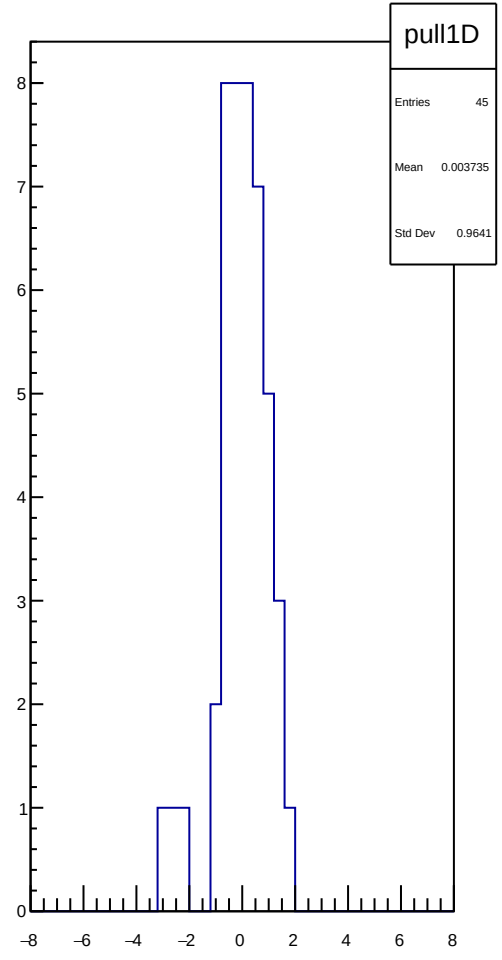
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −641.8
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003735
Std Dev 0.9641
8
7
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5
4
3
2
1
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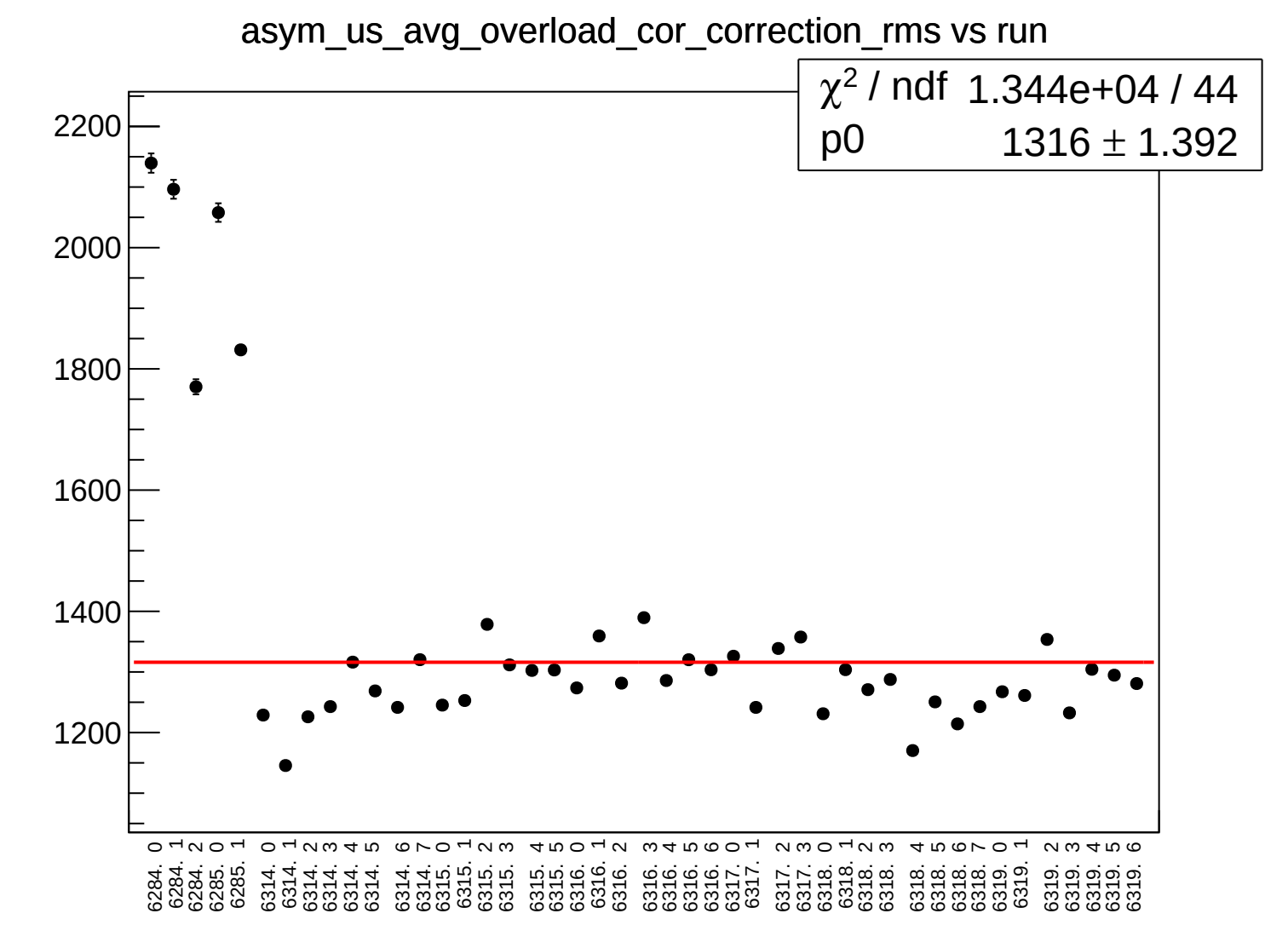
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.344e+04 / 44
p0 1316 ± 1.392
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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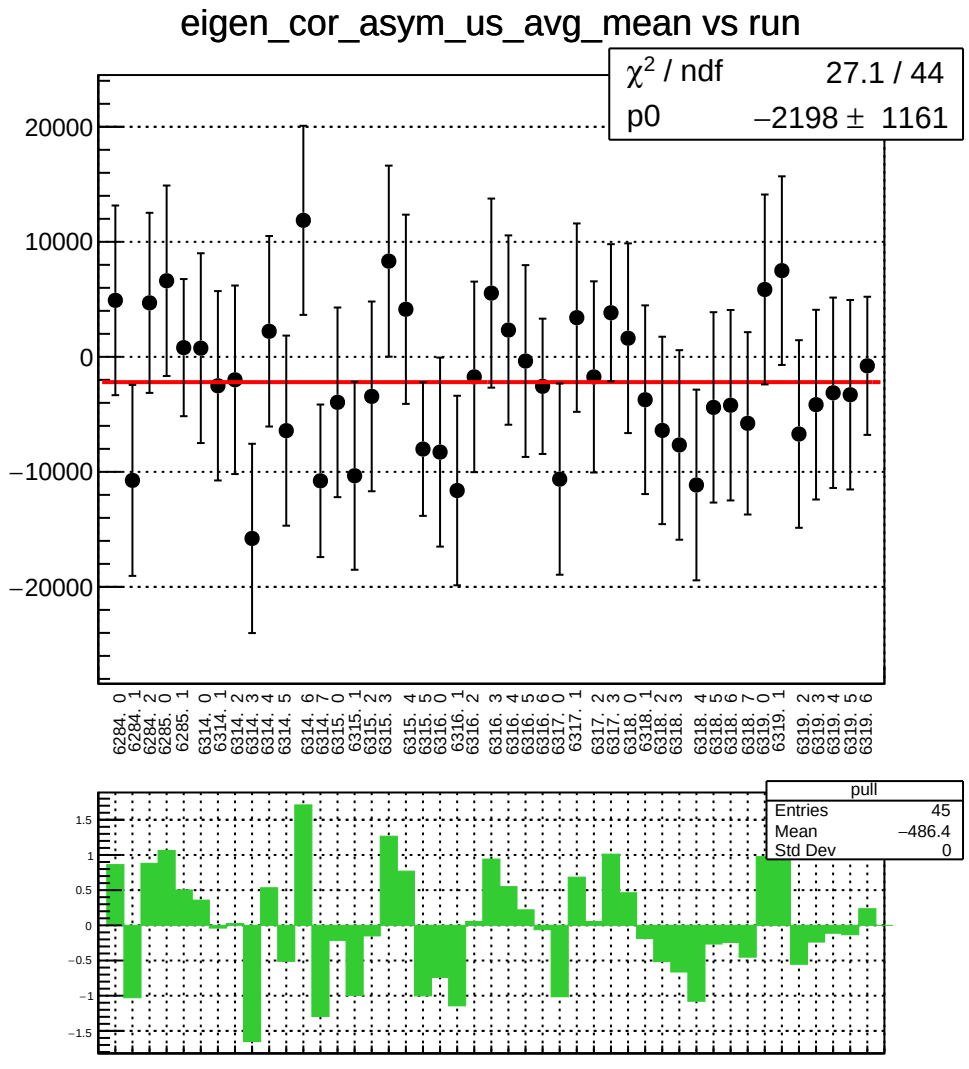
6319. 6


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 27.1 / 44
p0 −2198 ± 1161
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −486.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.001474
Std Dev 0.7761
10
8
6
4
2
0
−8
−6
−4
−2
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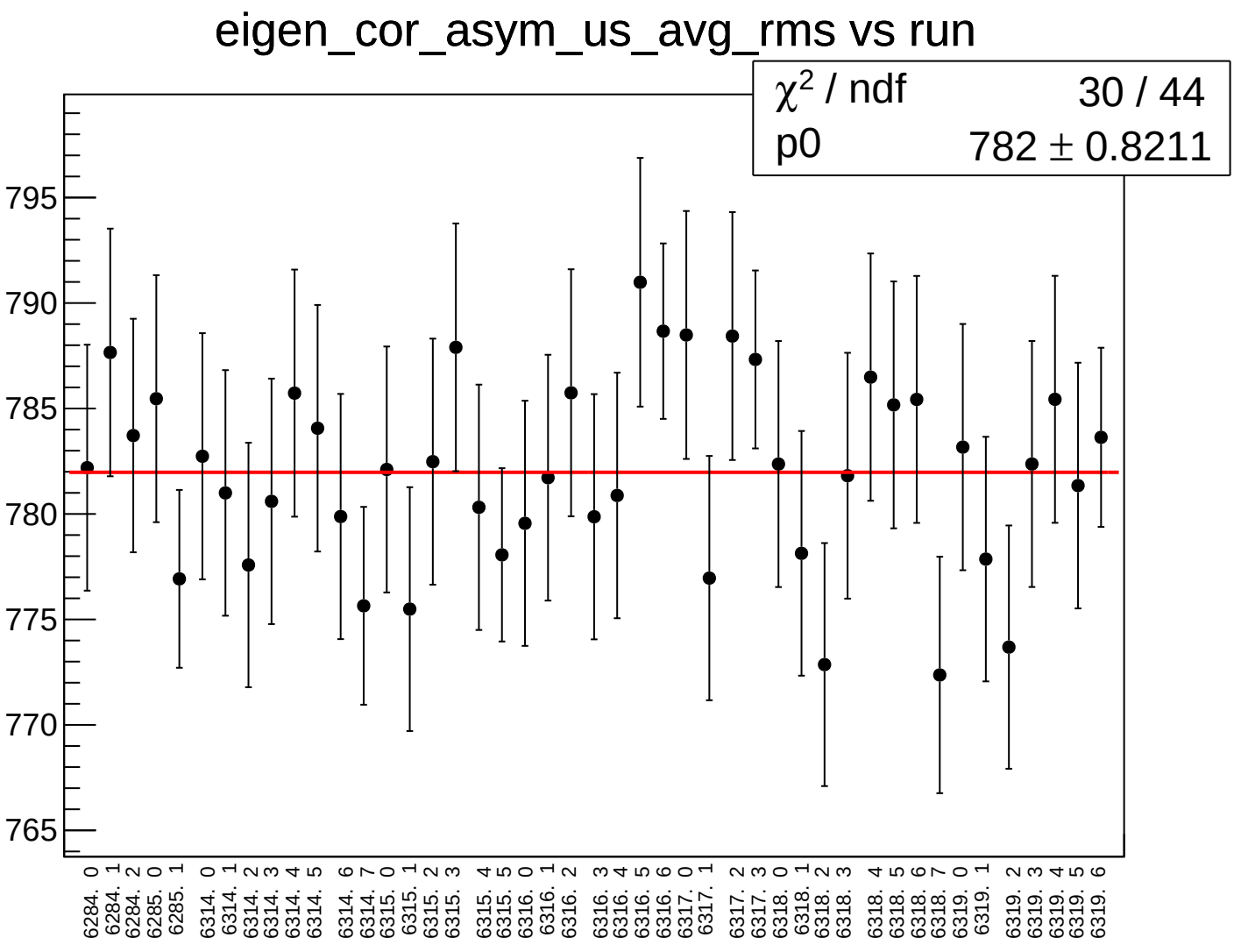
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 30 / 44
p0 782 ± 0.8211
795
790
785
780
775
770
765
6284. 0
6284. 1
6284. 2
6285. 0
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6318. 1
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6318. 6
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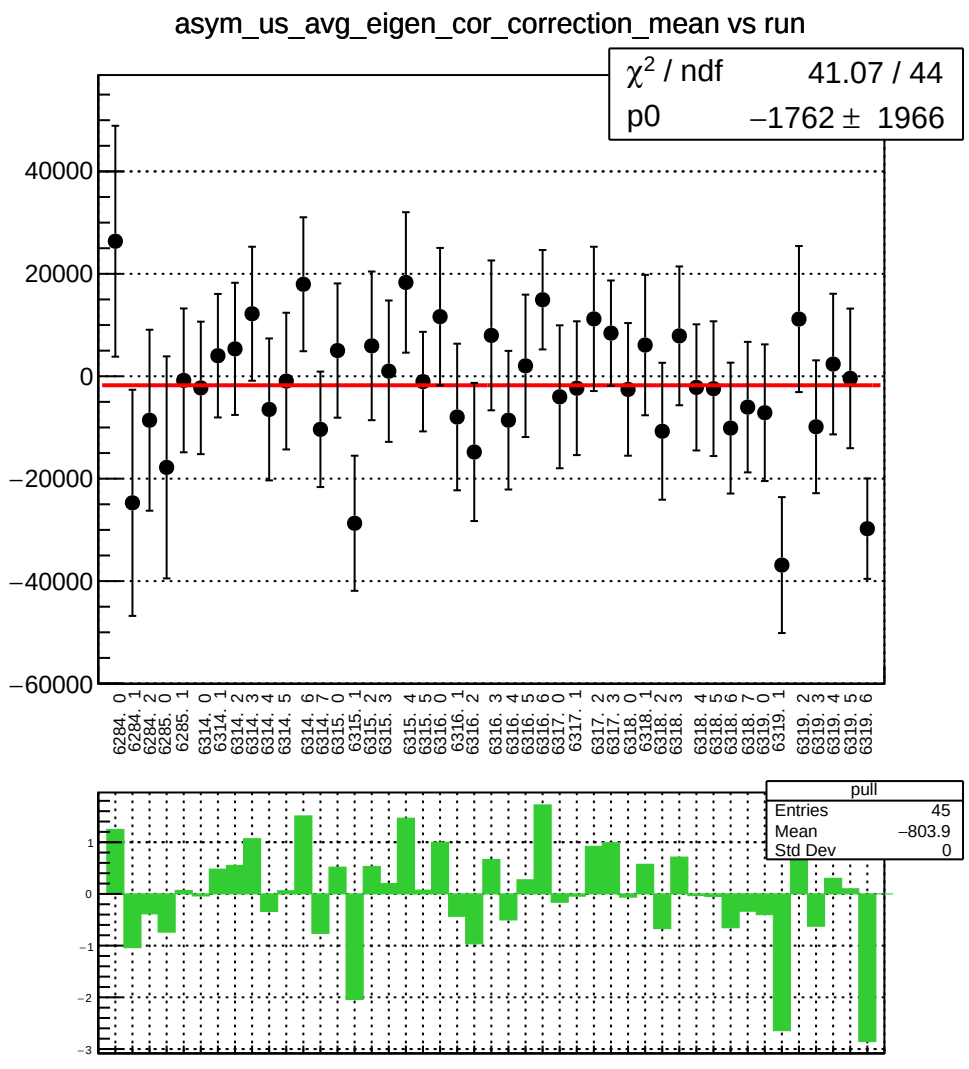
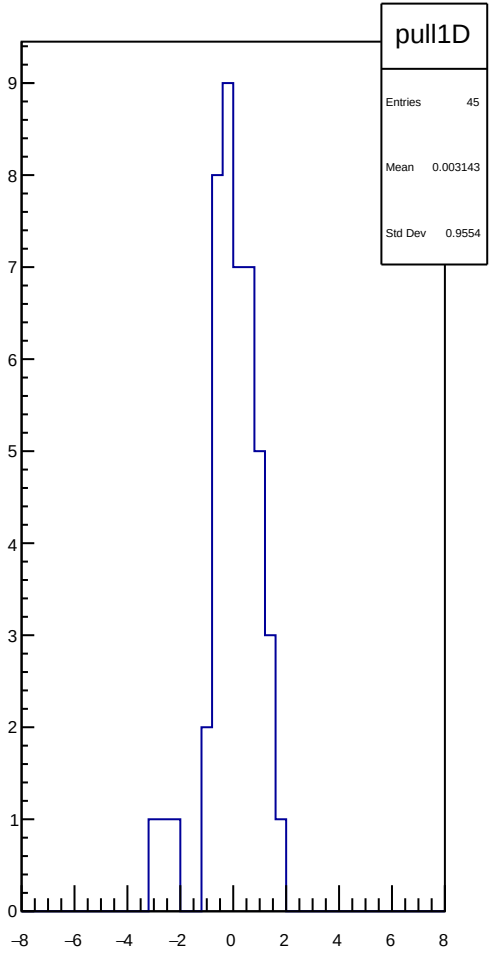
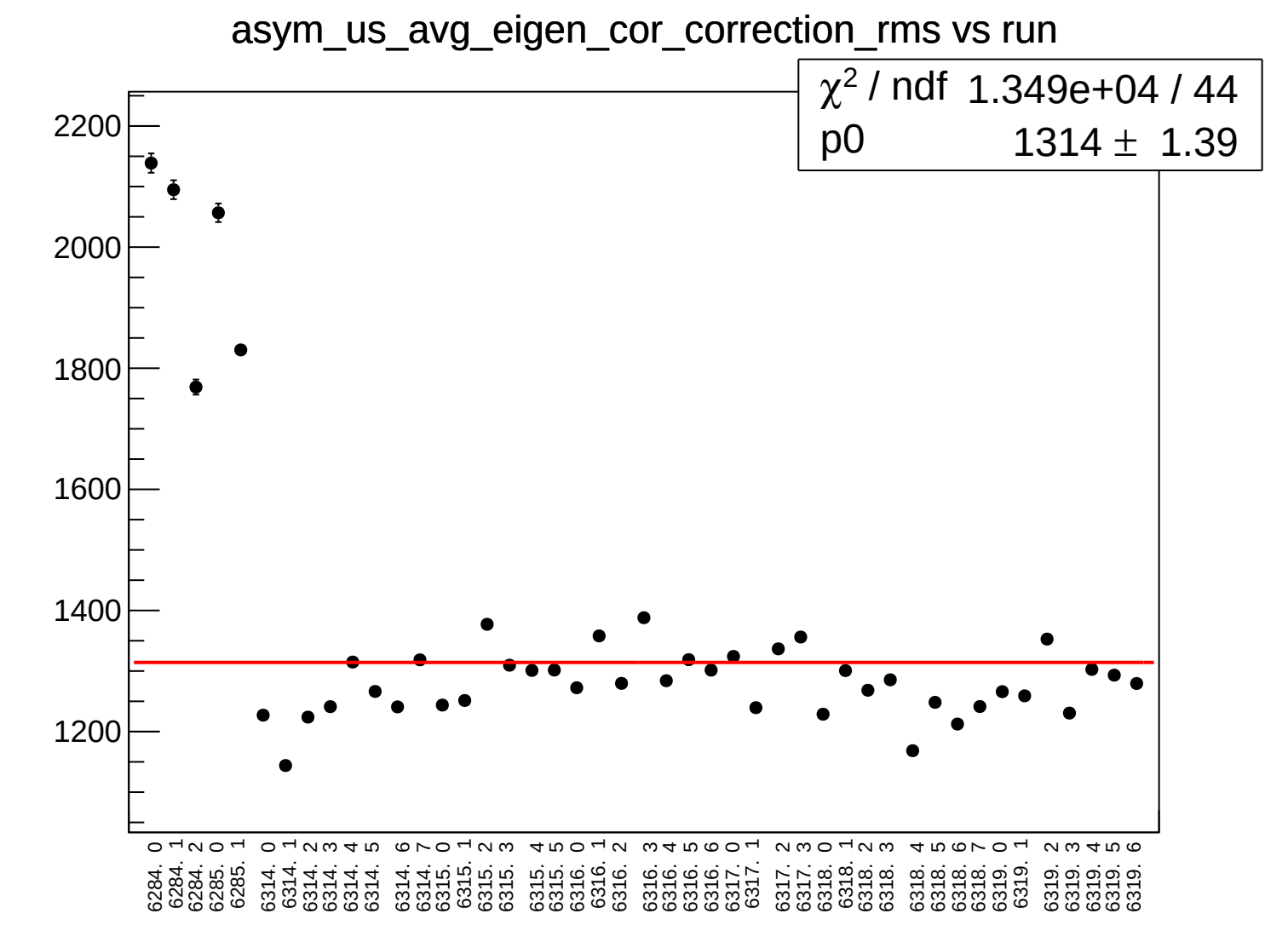
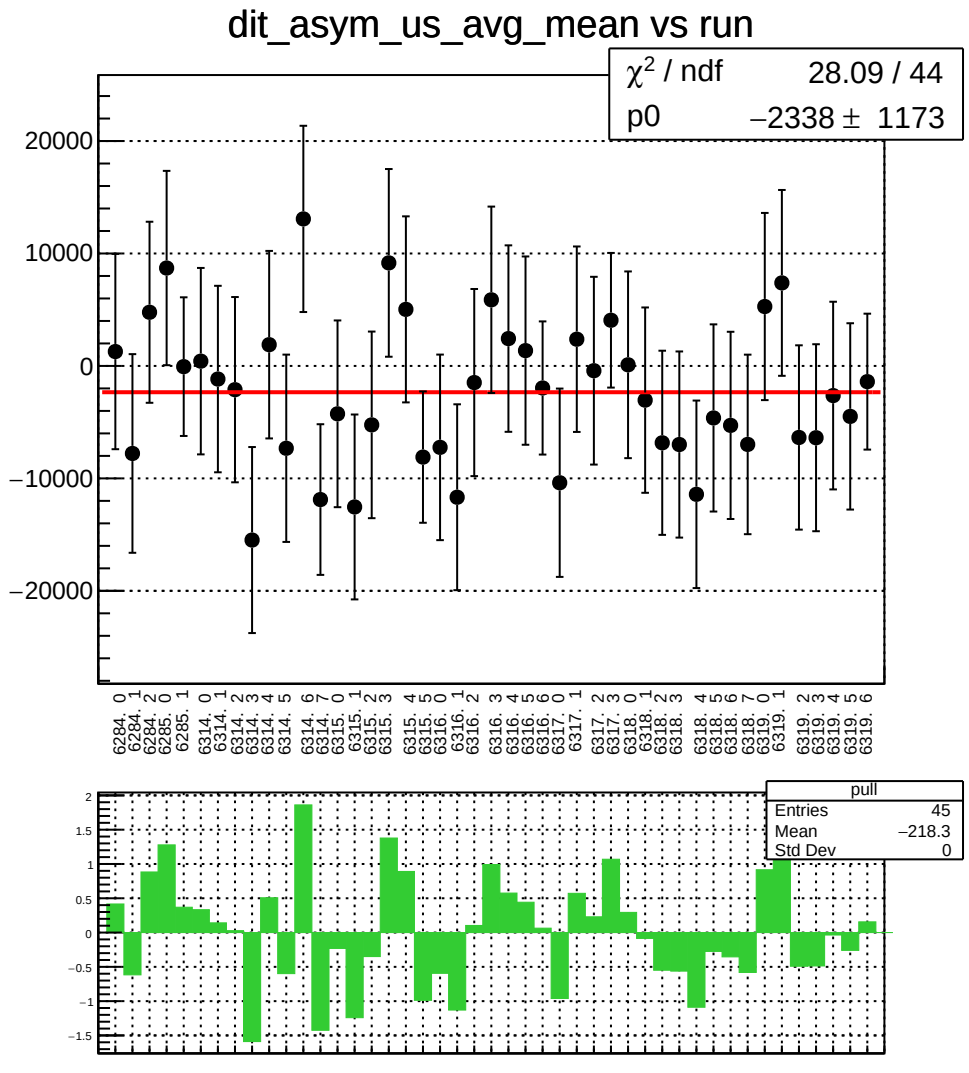
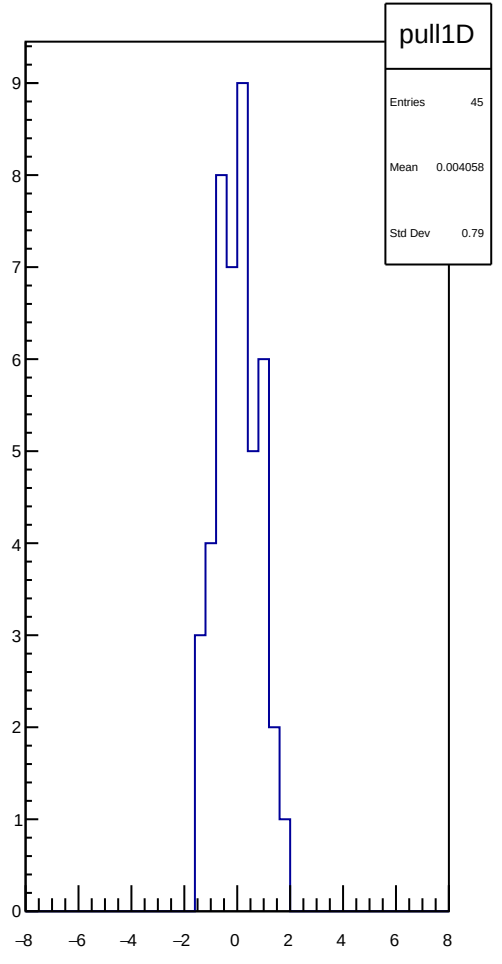
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

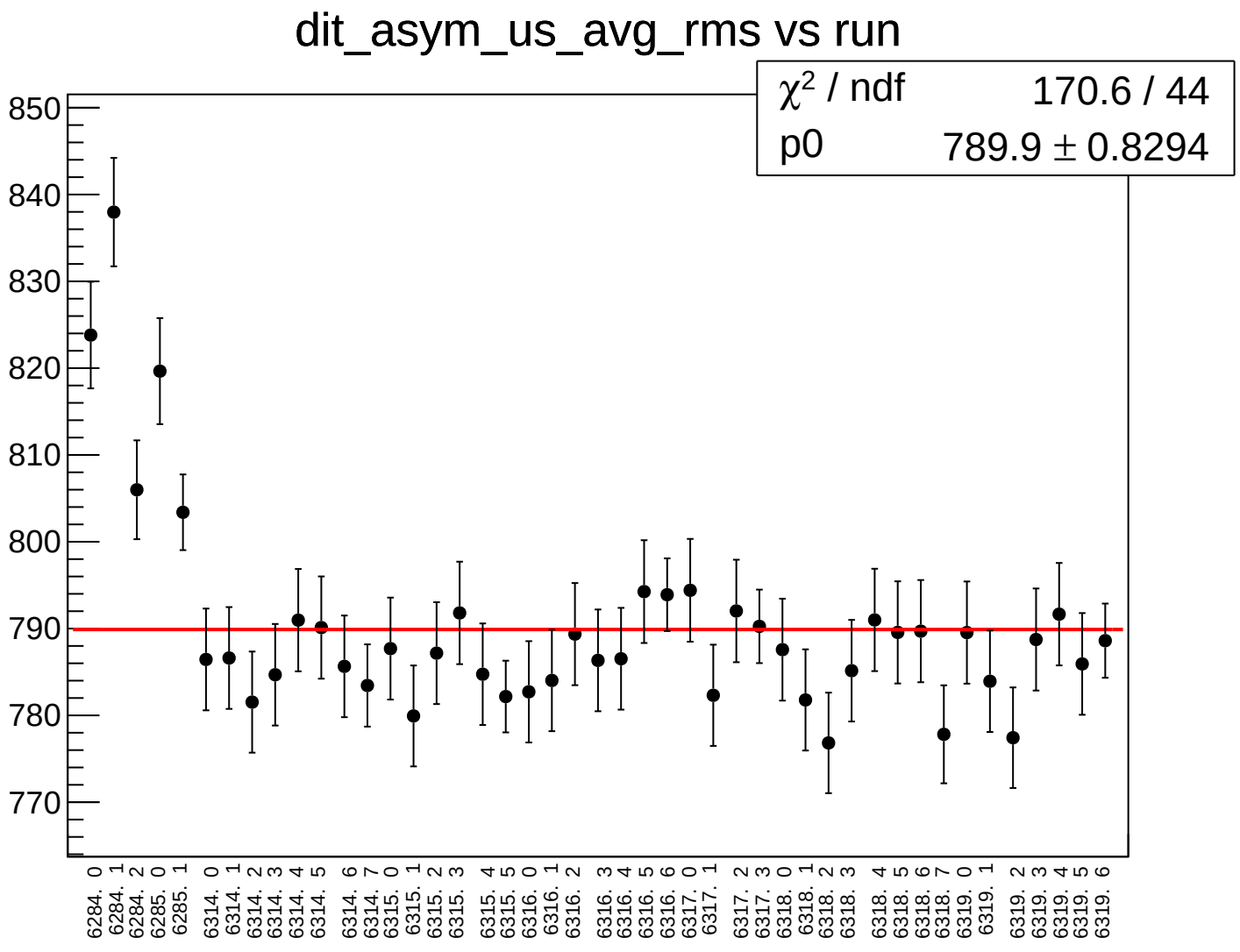

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.07 / 44
p0 −1762 ± 1966
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −803.9
Std Dev 0
1
0
−1
−2
−3

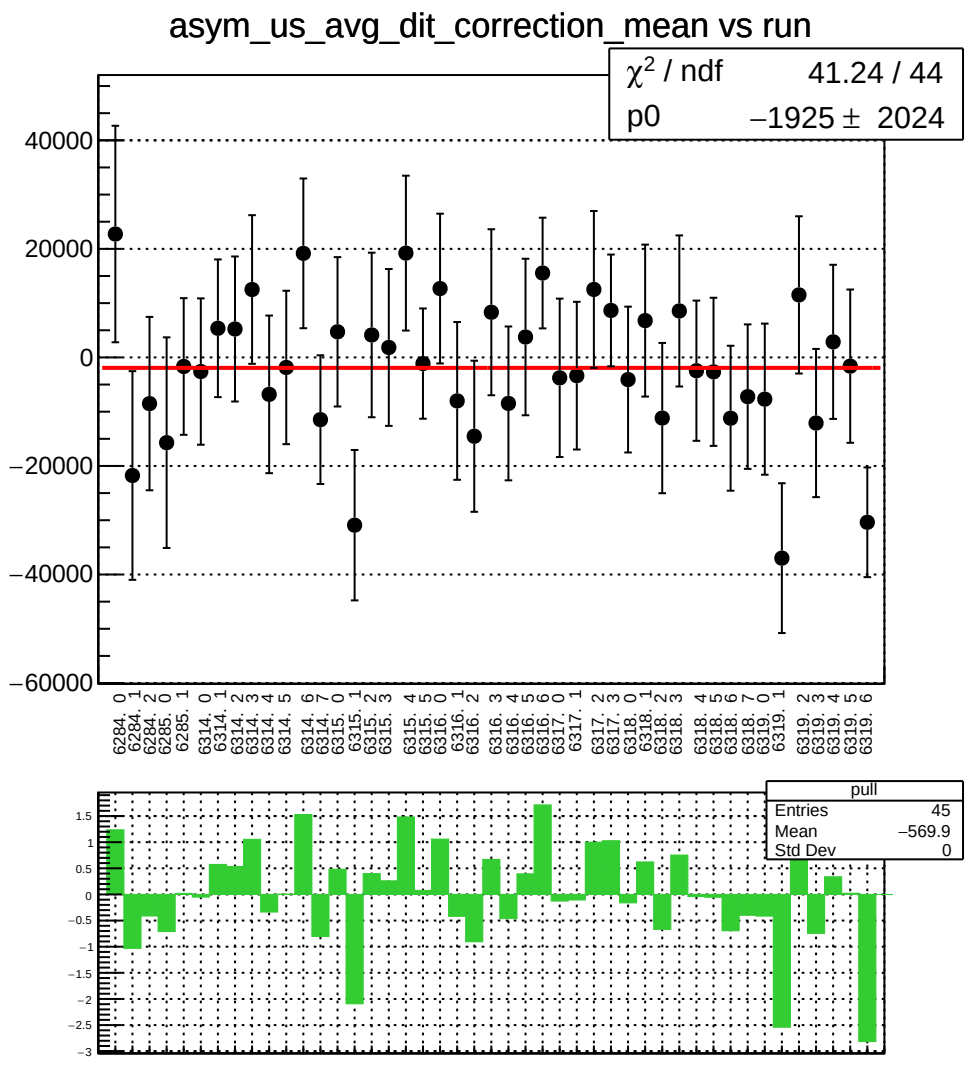

pull1D
Entries 45
Mean 0.003143
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

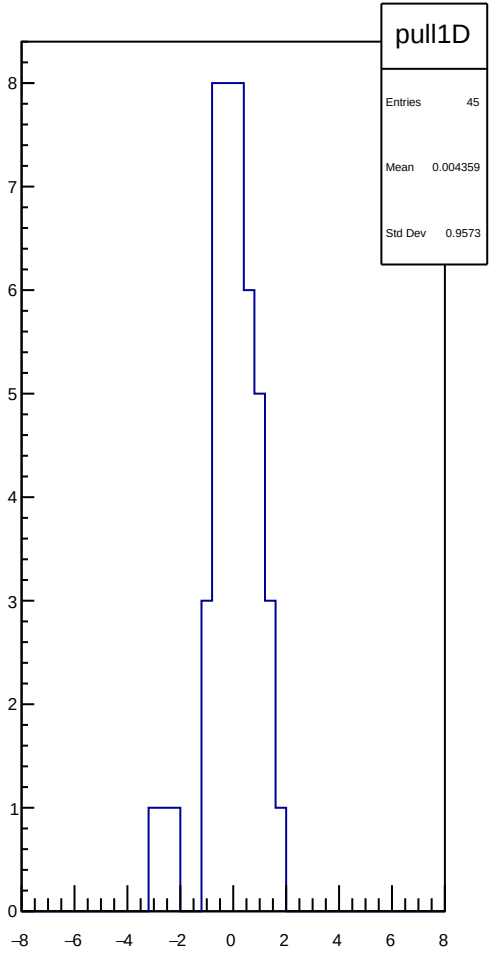

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 44
p0 1314 ± 1.39
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

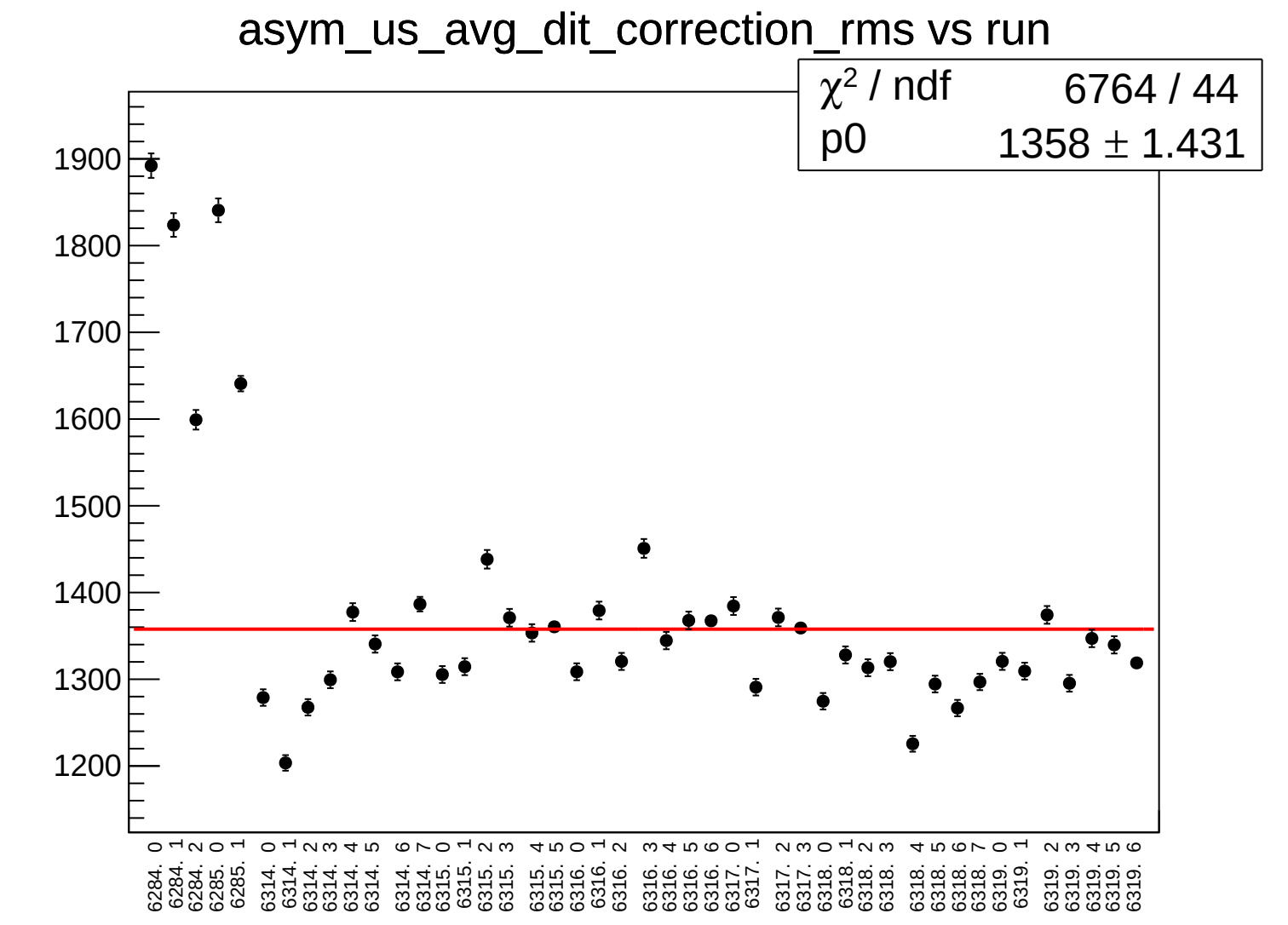

dit_asym_us_avg_mean vs run
χ² / ndf 28.09 / 44
p0 −2338 ± 1173
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −218.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

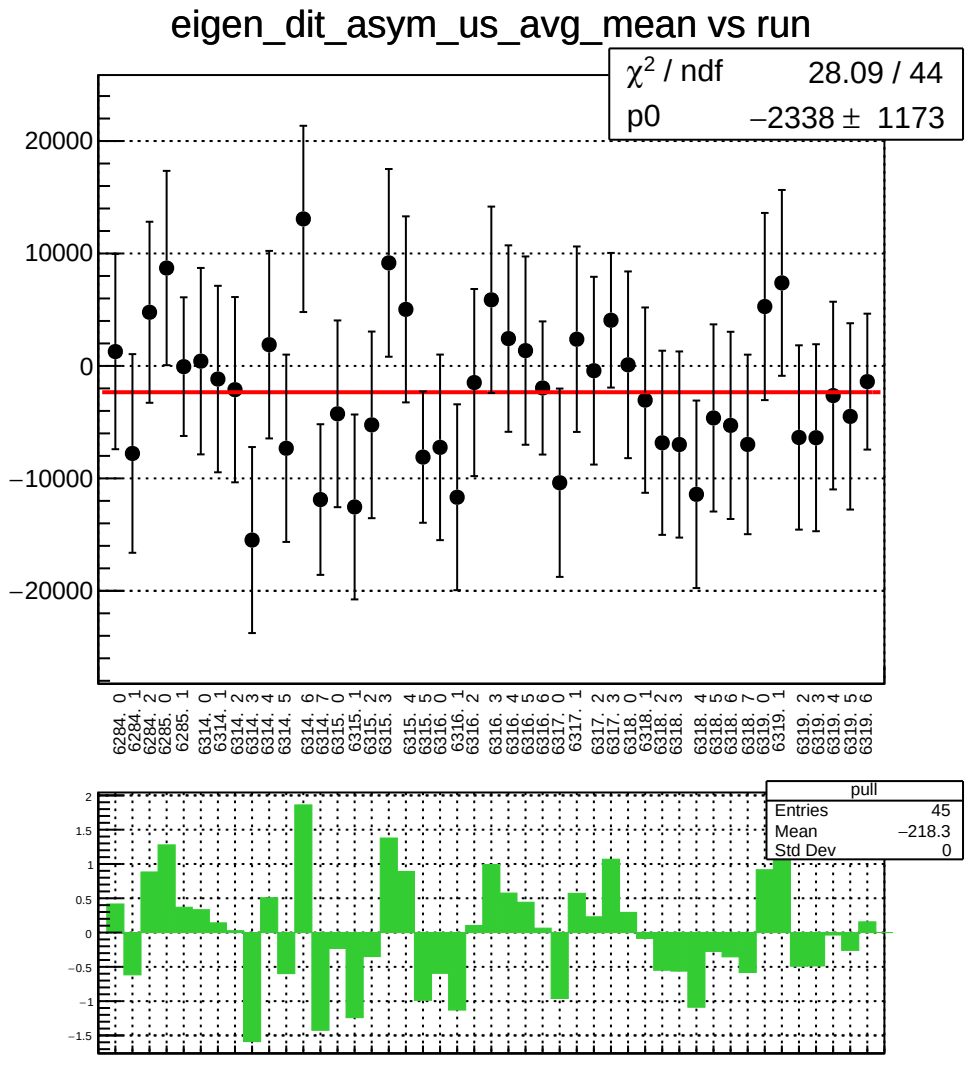

pull1D
Entries 45
Mean 0.004058
Std Dev 0.79
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ² / ndf 170.6 / 44
p0 789.9 ± 0.8294
850
840
830
820
810
800
790
780
770
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

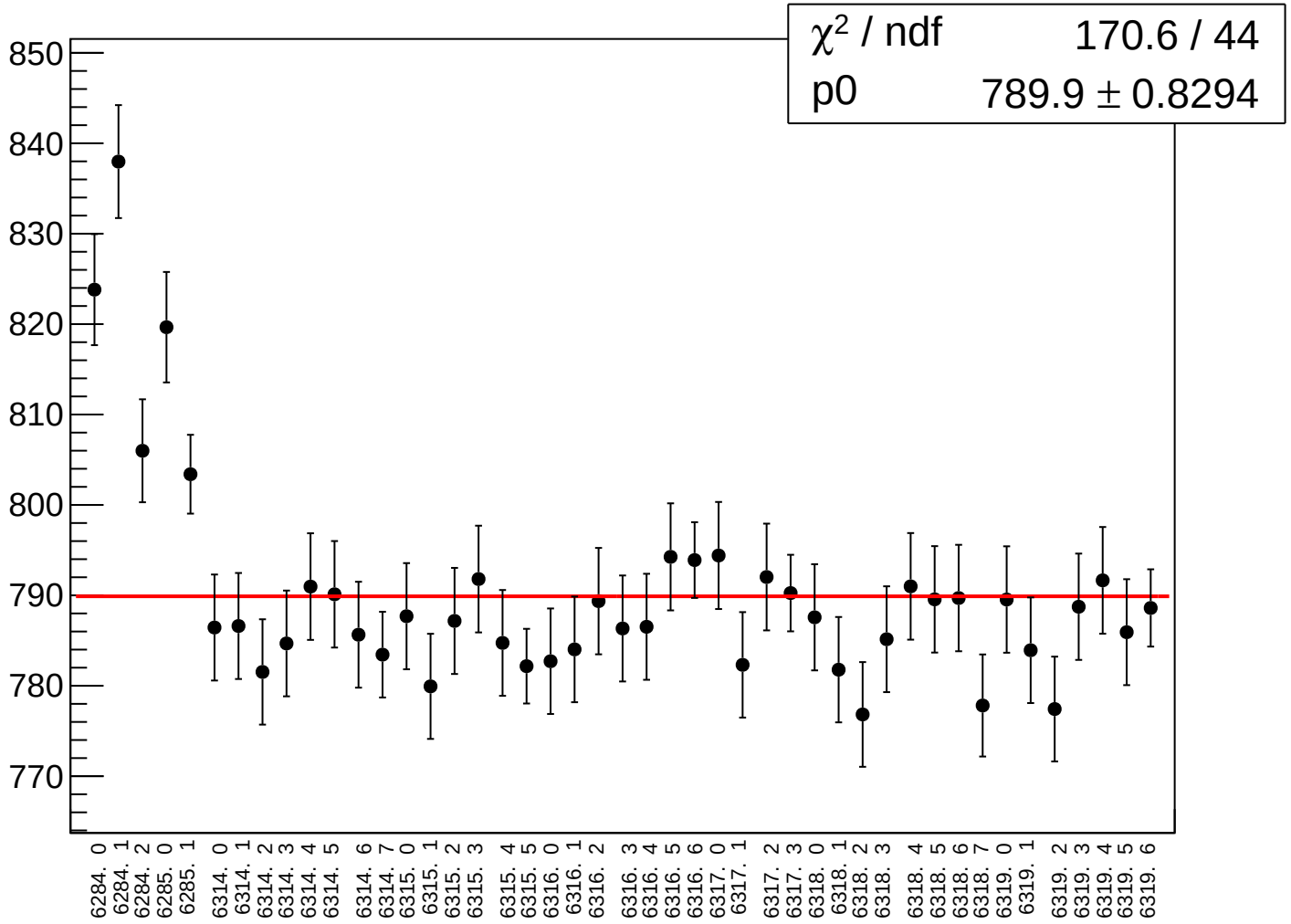

asym_us_avg_dit_correction_mean vs run
χ² / ndf 41.24 / 44
p0 −1925 ± 2024
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −569.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

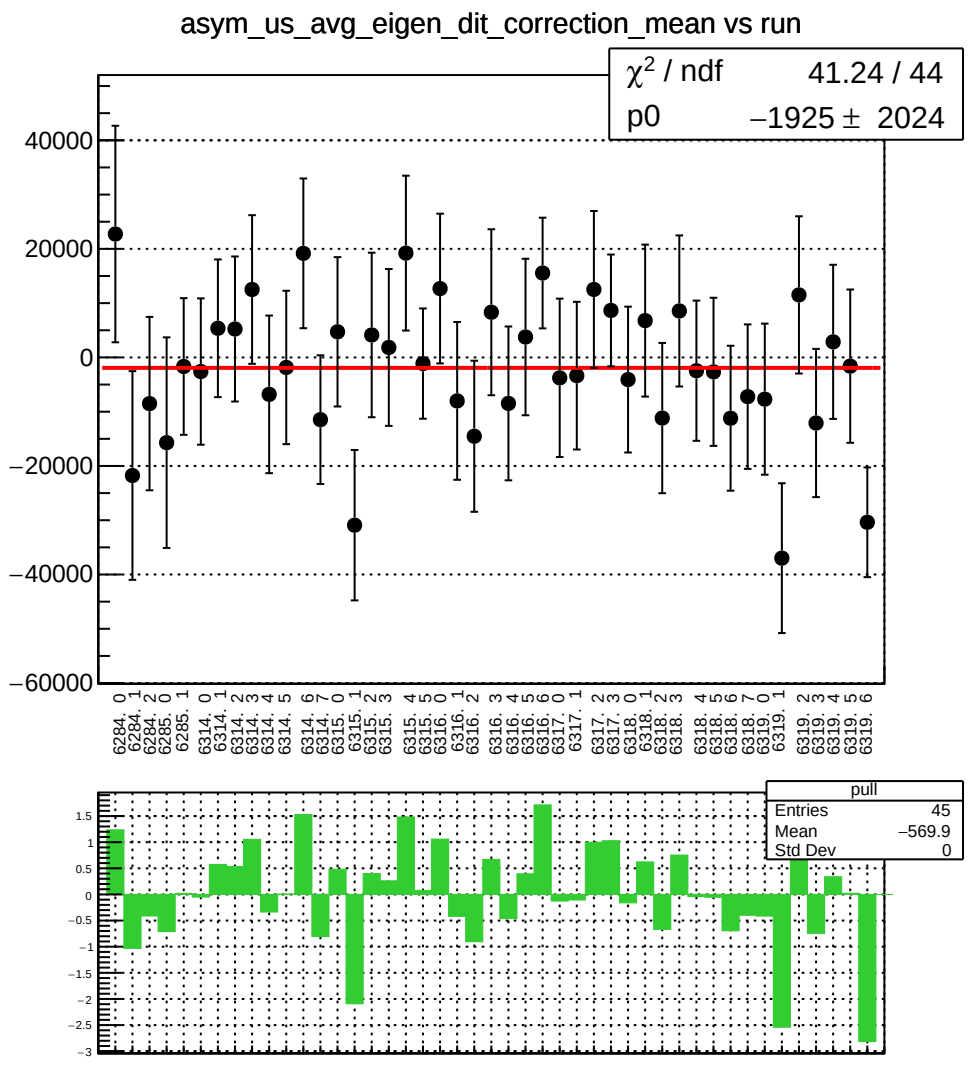

pull1D
Entries 45
Mean 0.004359
Std Dev 0.9573
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

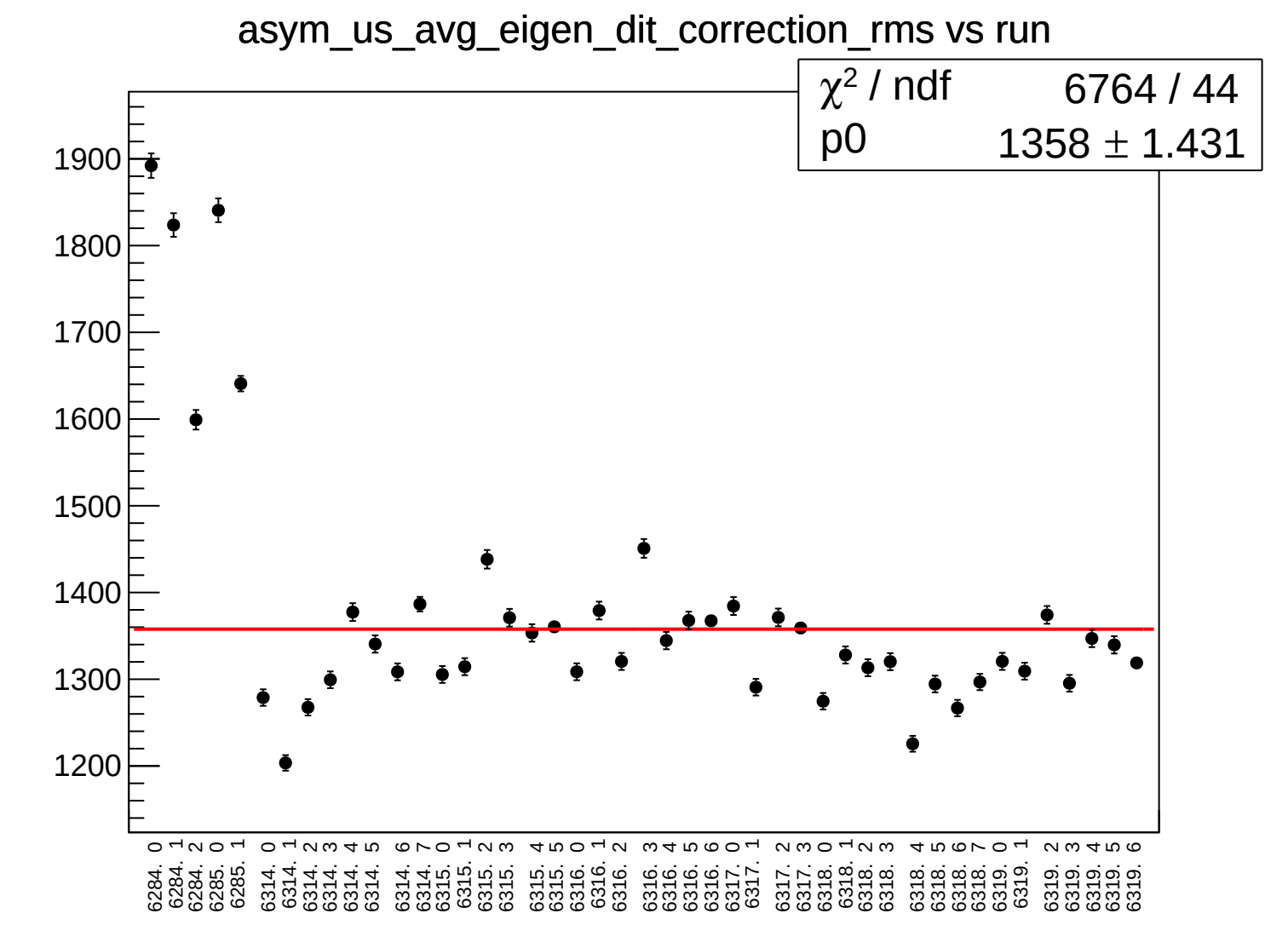

asym_us_avg_dit_correction_rms vs run
χ² / ndf 6764 / 44
p0 1358 ± 1.431
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

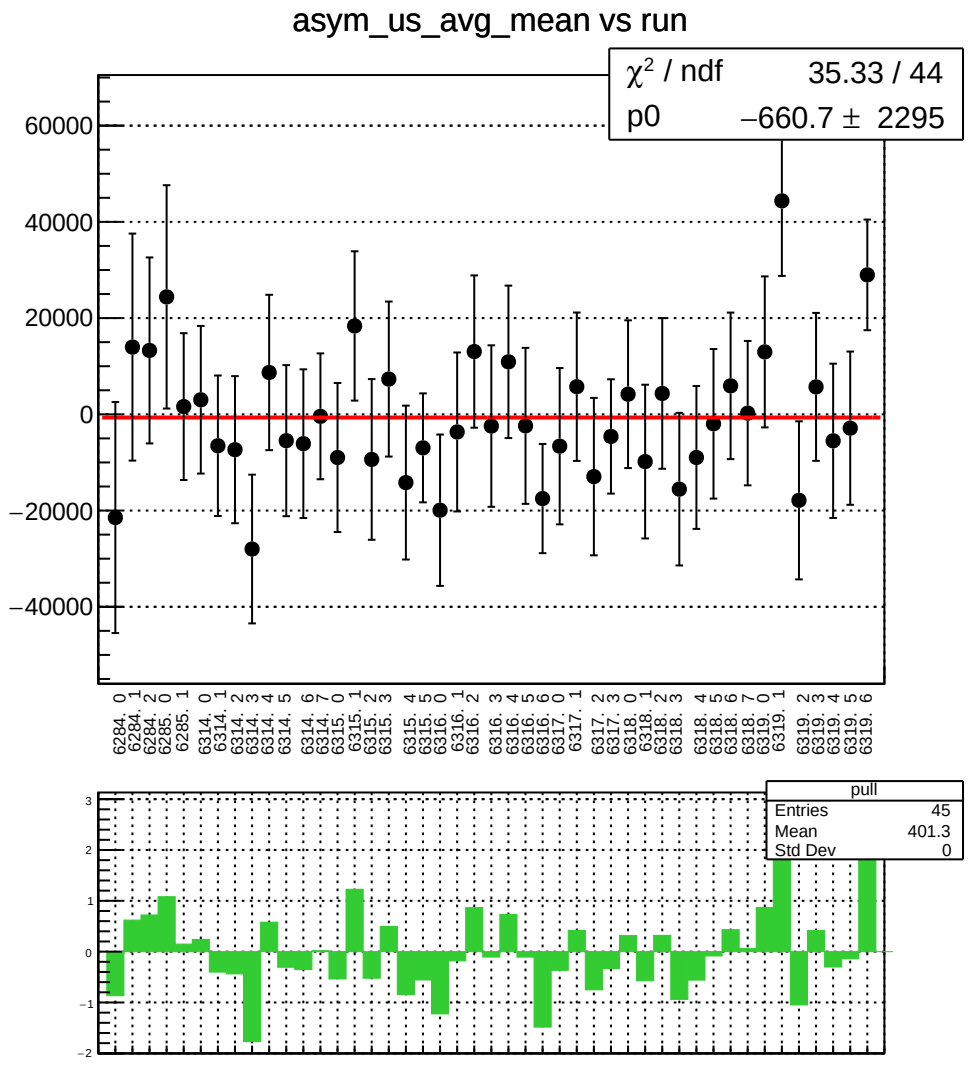

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 28.09 / 44
p0 −2338 ± 1173
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −218.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004058
Std Dev 0.79
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

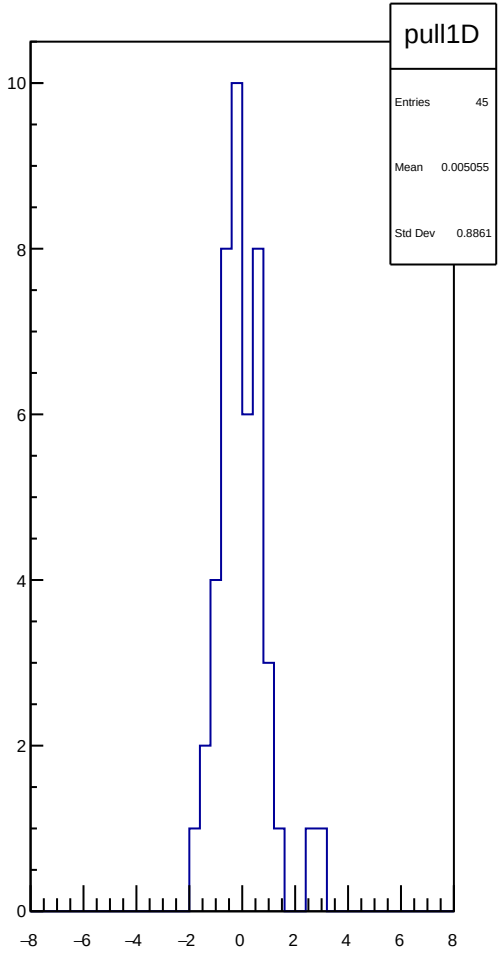
eigen_dit_asym_us_avg_rms vs run

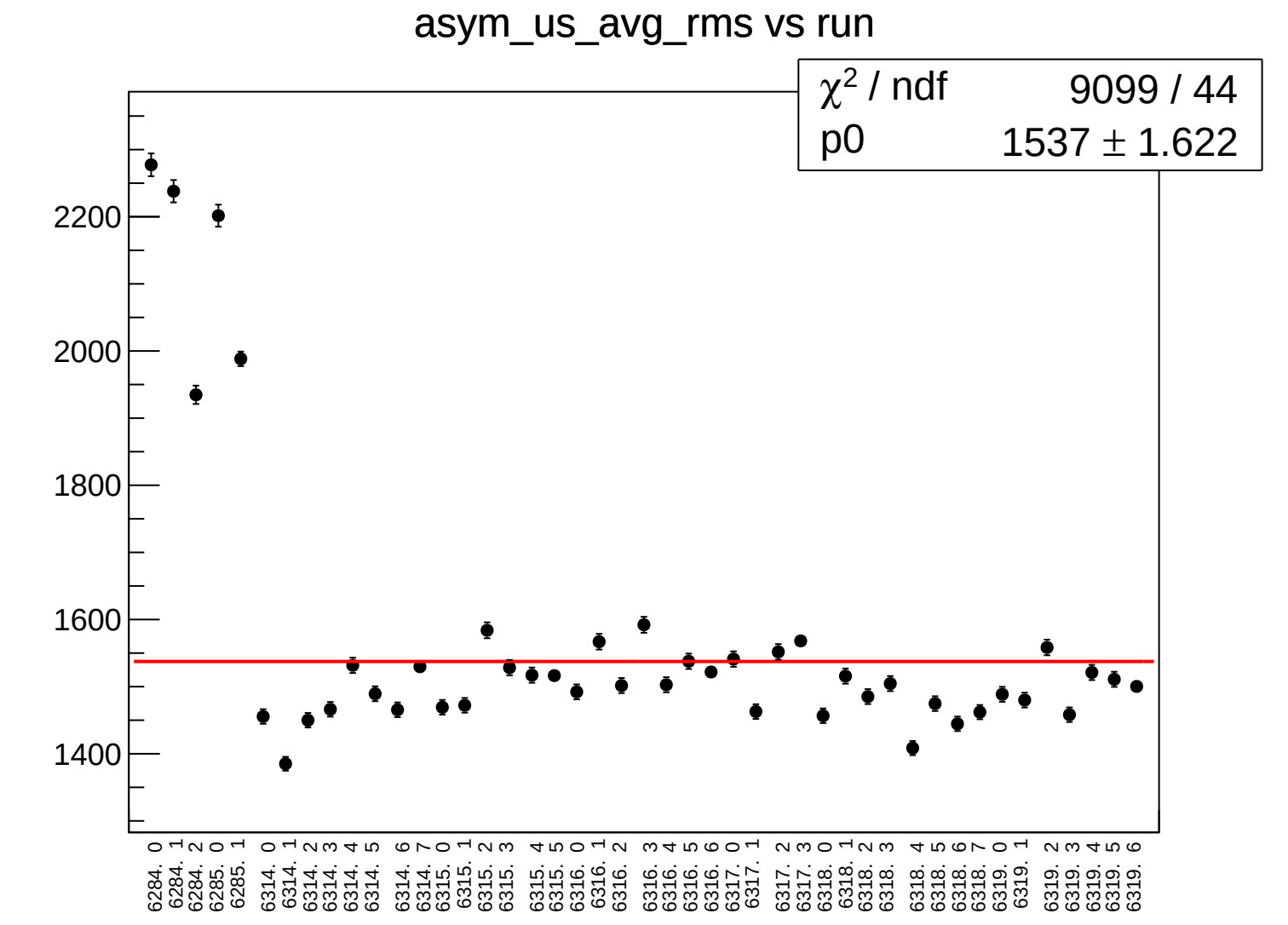


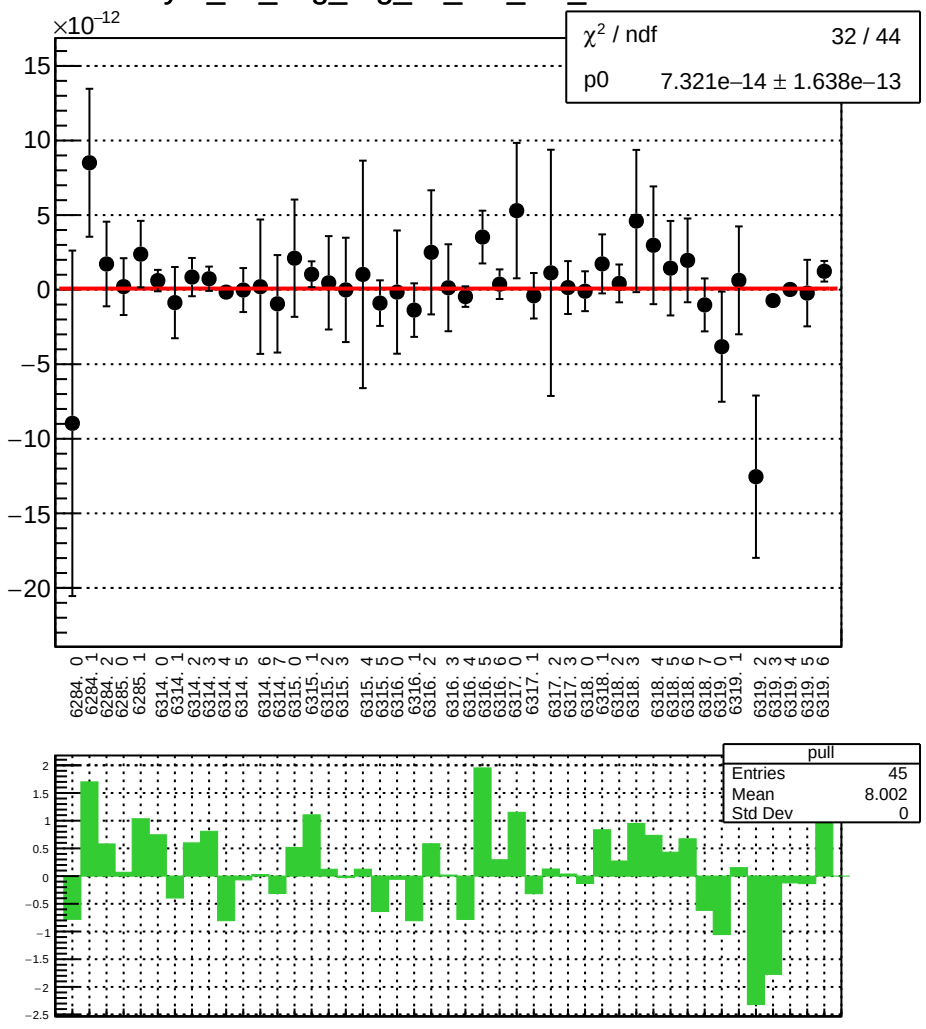

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.24 / 44
p0 −1925 ± 2024
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −569.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.004359
Std Dev 0.9573
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

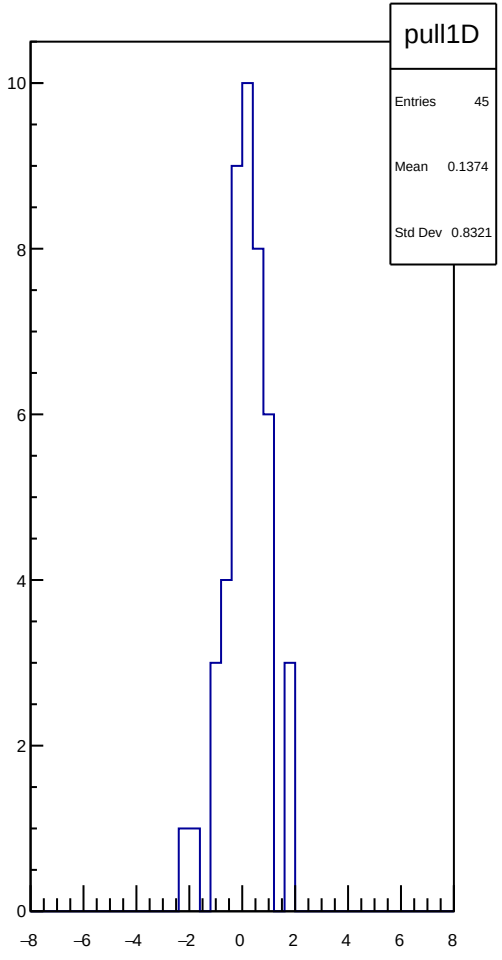

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 6764 / 44
p0 1358 ± 1.431
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

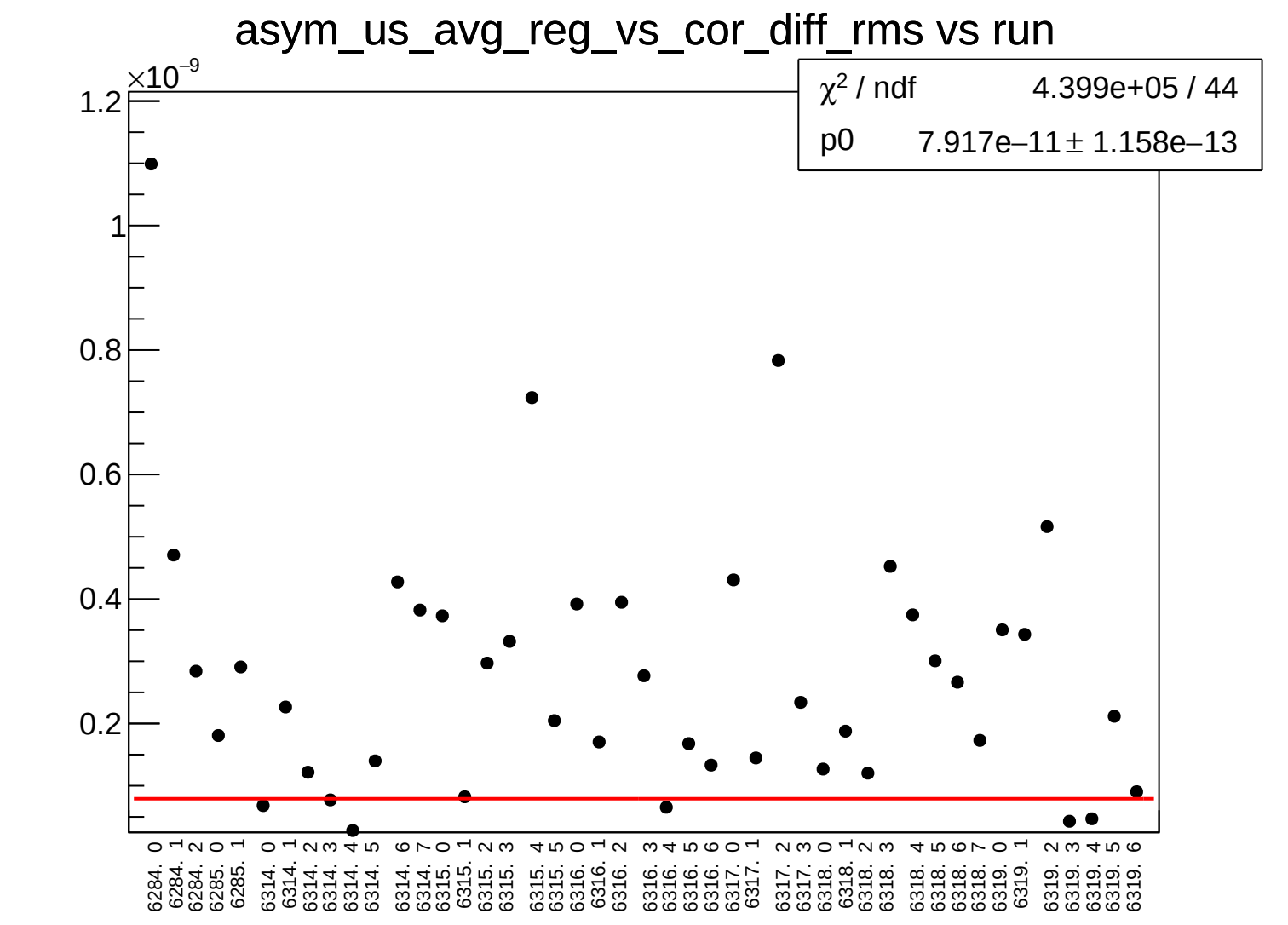

asym_us_avg_mean vs run
χ² / ndf 35.33 / 44
p0 −660.7 ± 2295
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 401.3
Std Dev 0
3
2
1
0
−1
−2

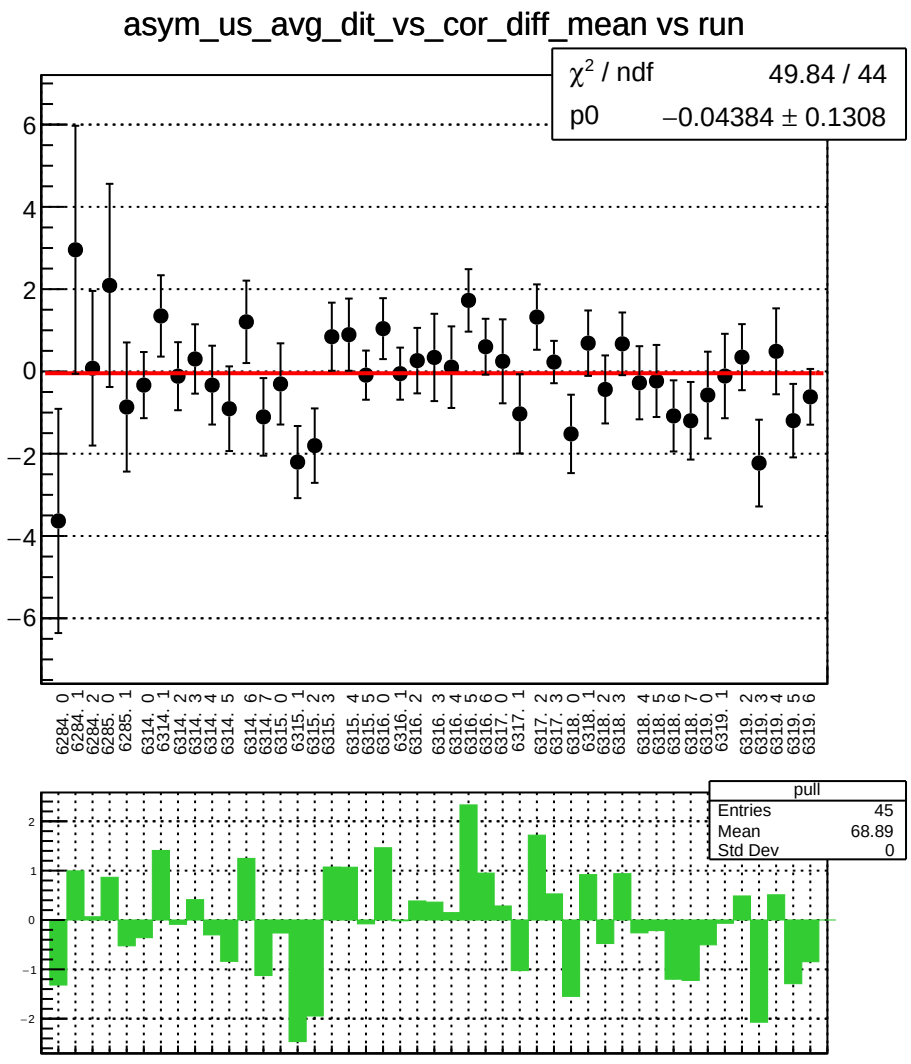

pull1D
Entries 45
Mean 0.005055
Std Dev 0.8861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

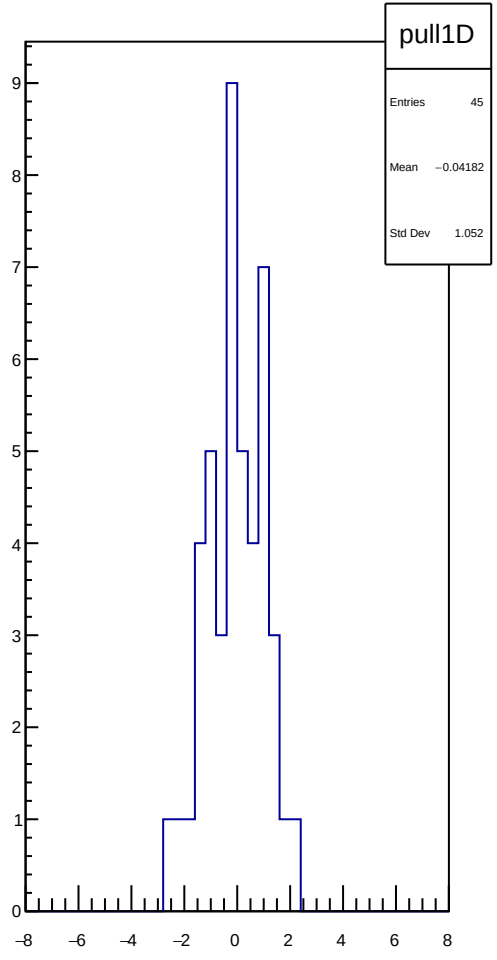

asym_us_avg_rms vs run
χ² / ndf 9099 / 44
p0 1537 ± 1.622
2200
2000
1800
1600
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

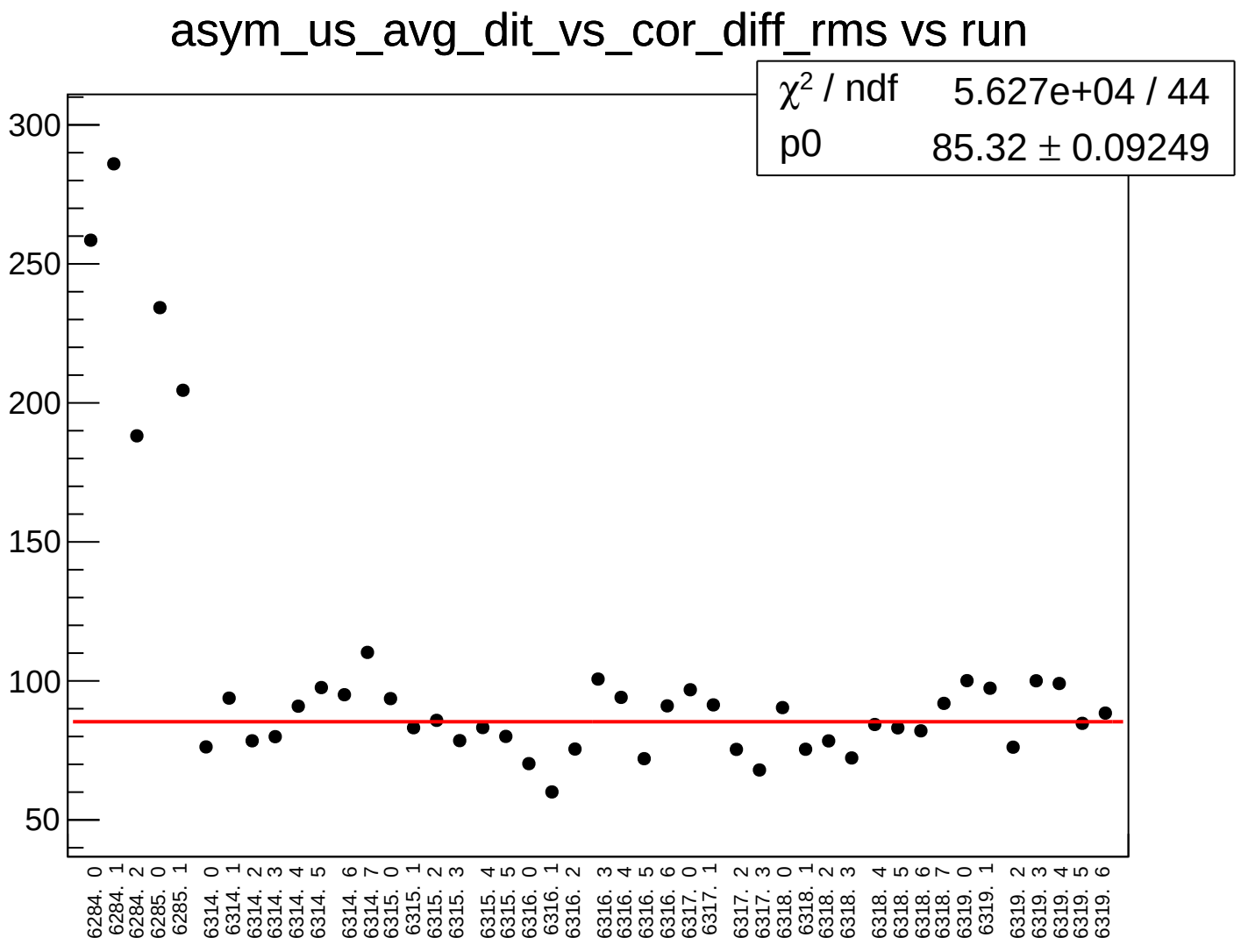

asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32 / 44
p0 7.321e−14 ± 1.638e−13
15
10
5
0
−5
−10
−15
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8.002
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.1374
Std Dev 0.8321
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.399e+05 / 44
p0 7.917e−11 ± 1.158e−13
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.84 / 44
p0 −0.04384 ± 0.1308
pull
Entries 45
Mean 68.89
Std Dev 0


pull1D
Entries 45
Mean −0.04182
Std Dev 1.052


asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.627e+04 / 44
p0 85.32 ± 0.09249
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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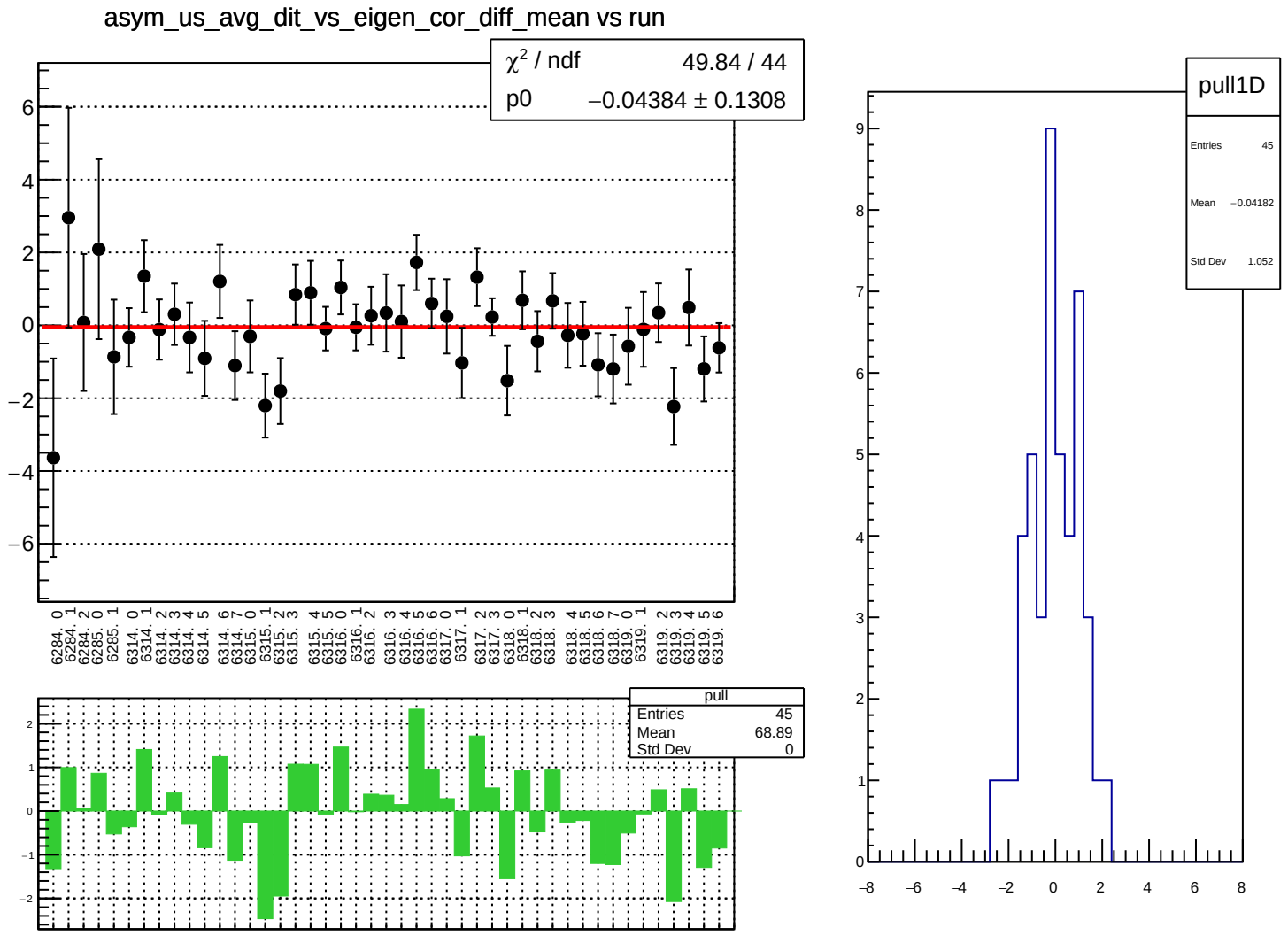
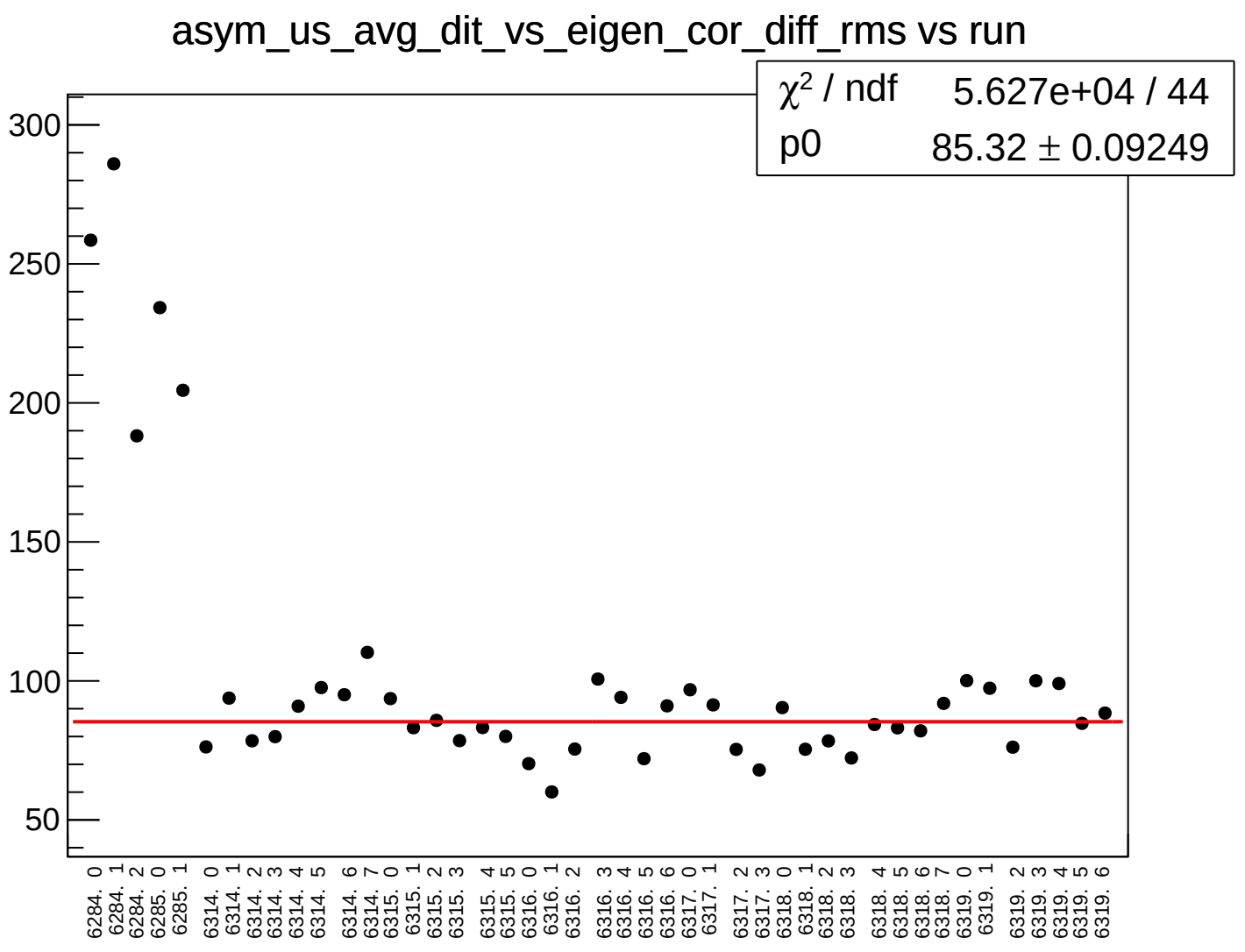
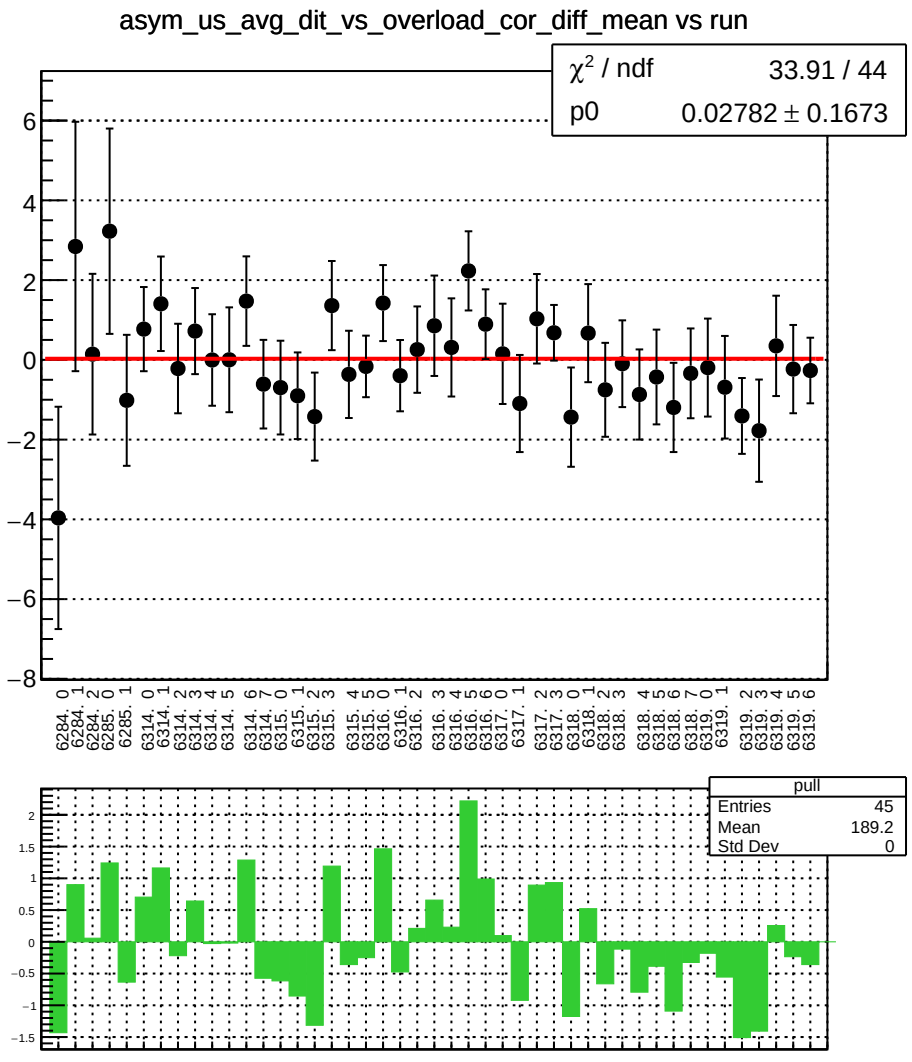
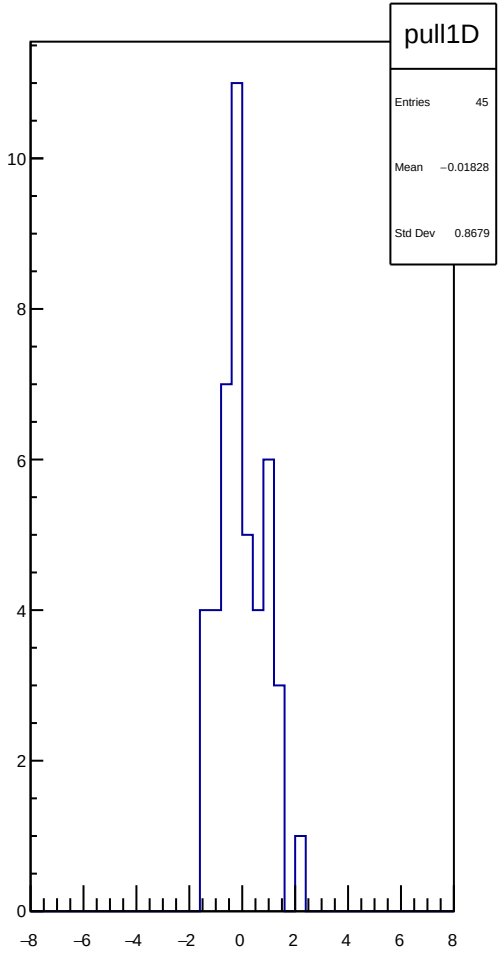
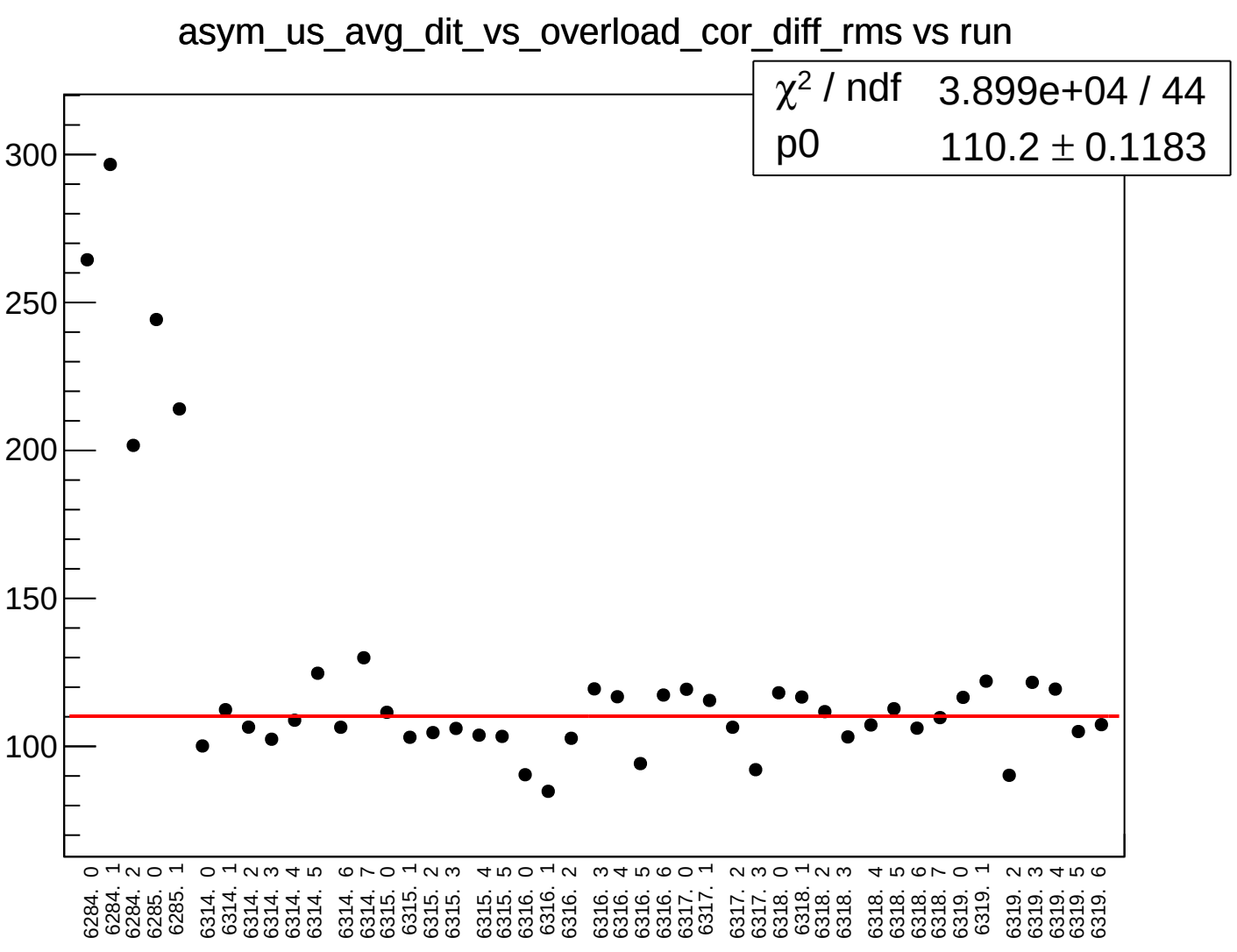
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

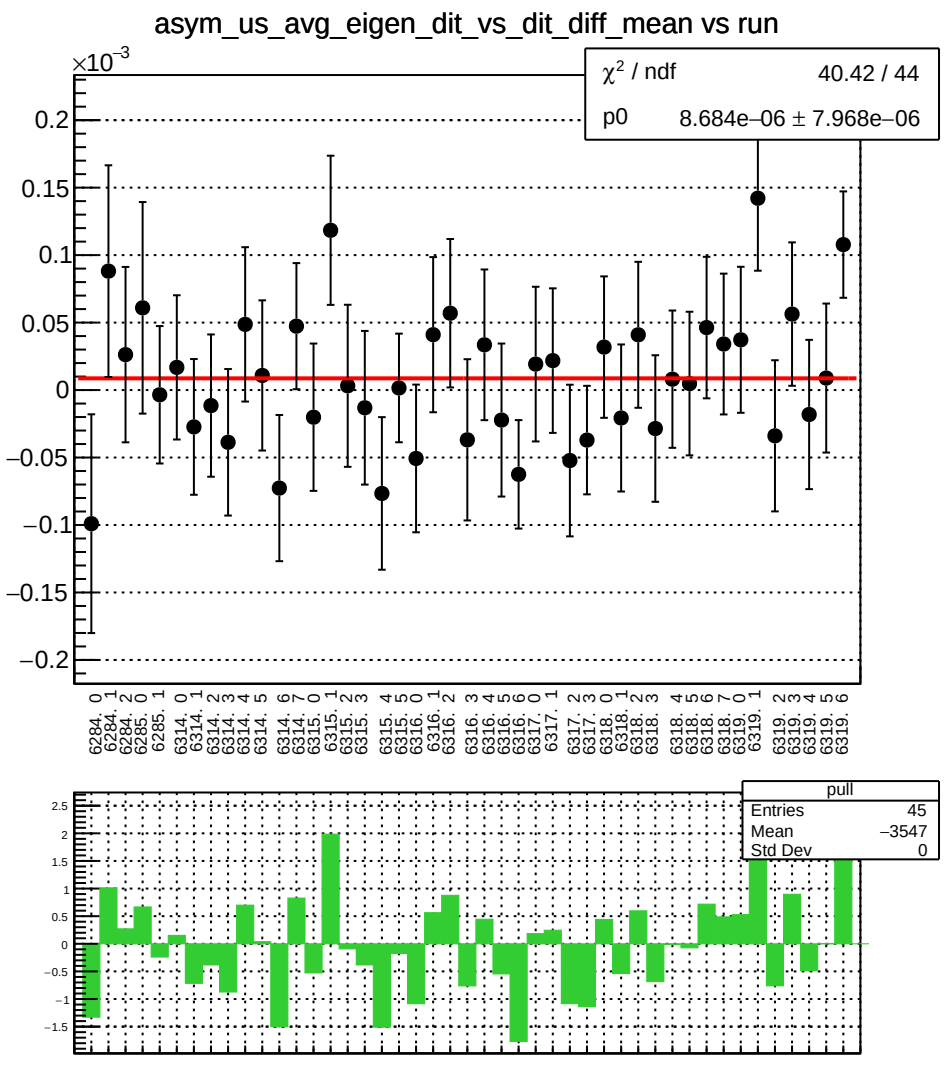

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.84 / 44
p0 −0.04384 ± 0.1308
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 68.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04182
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

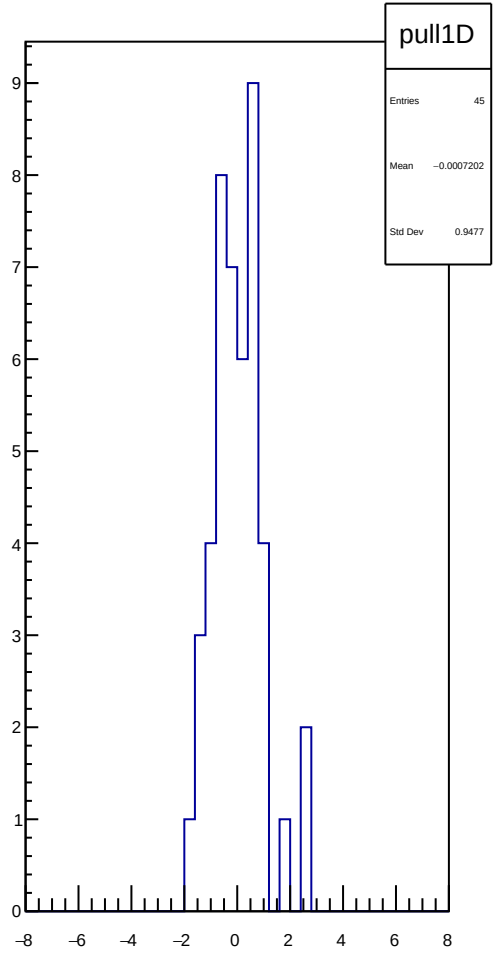

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.627e+04 / 44
p0 85.32 ± 0.09249
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

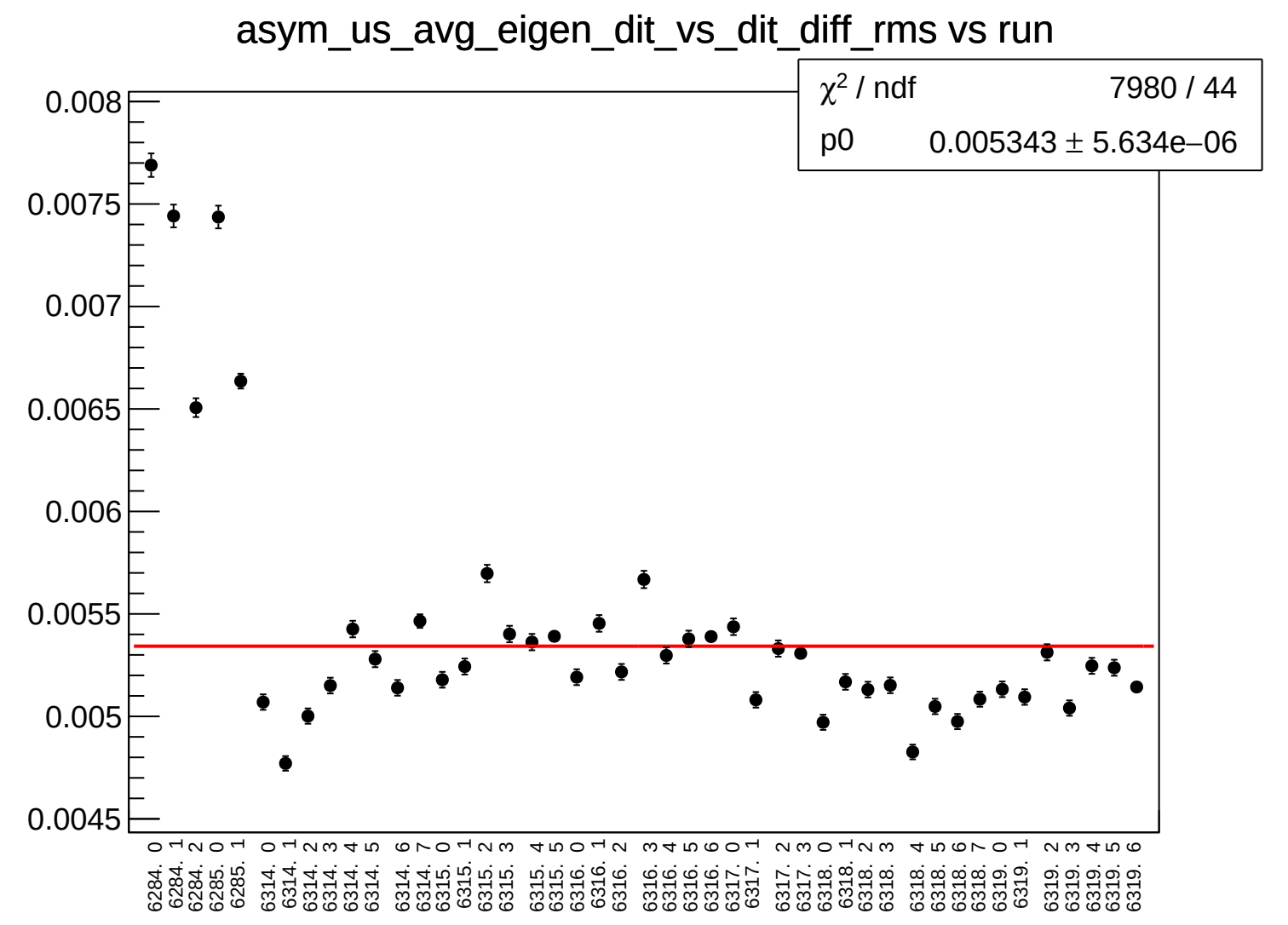

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 33.91 / 44
p0 0.02782 ± 0.1673
pull
Entries 45
Mean 189.2
Std Dev 0

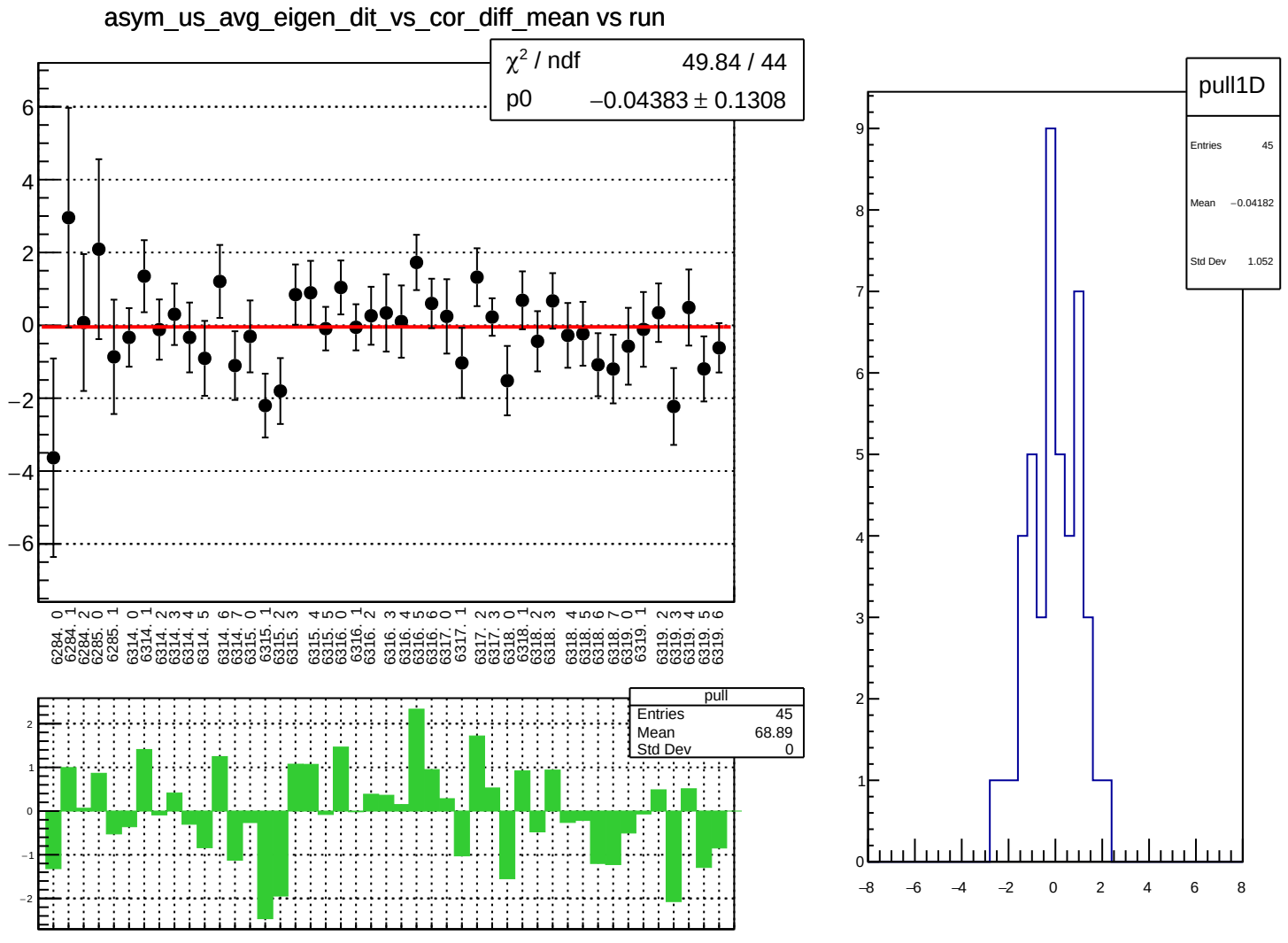

pull1D
Entries 45
Mean −0.01828
Std Dev 0.8679

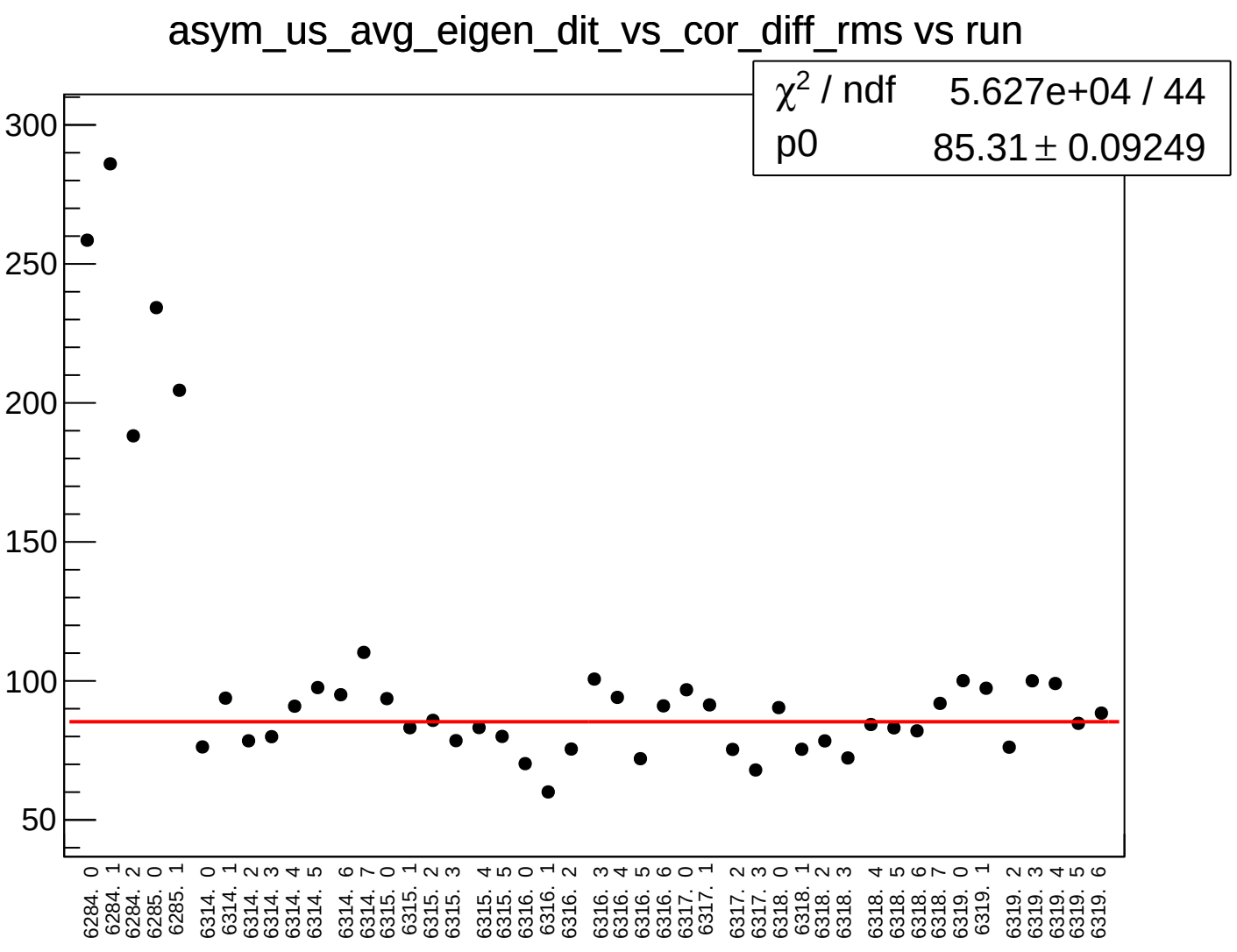

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.899e+04 / 44
p0 110.2 ± 0.1183
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

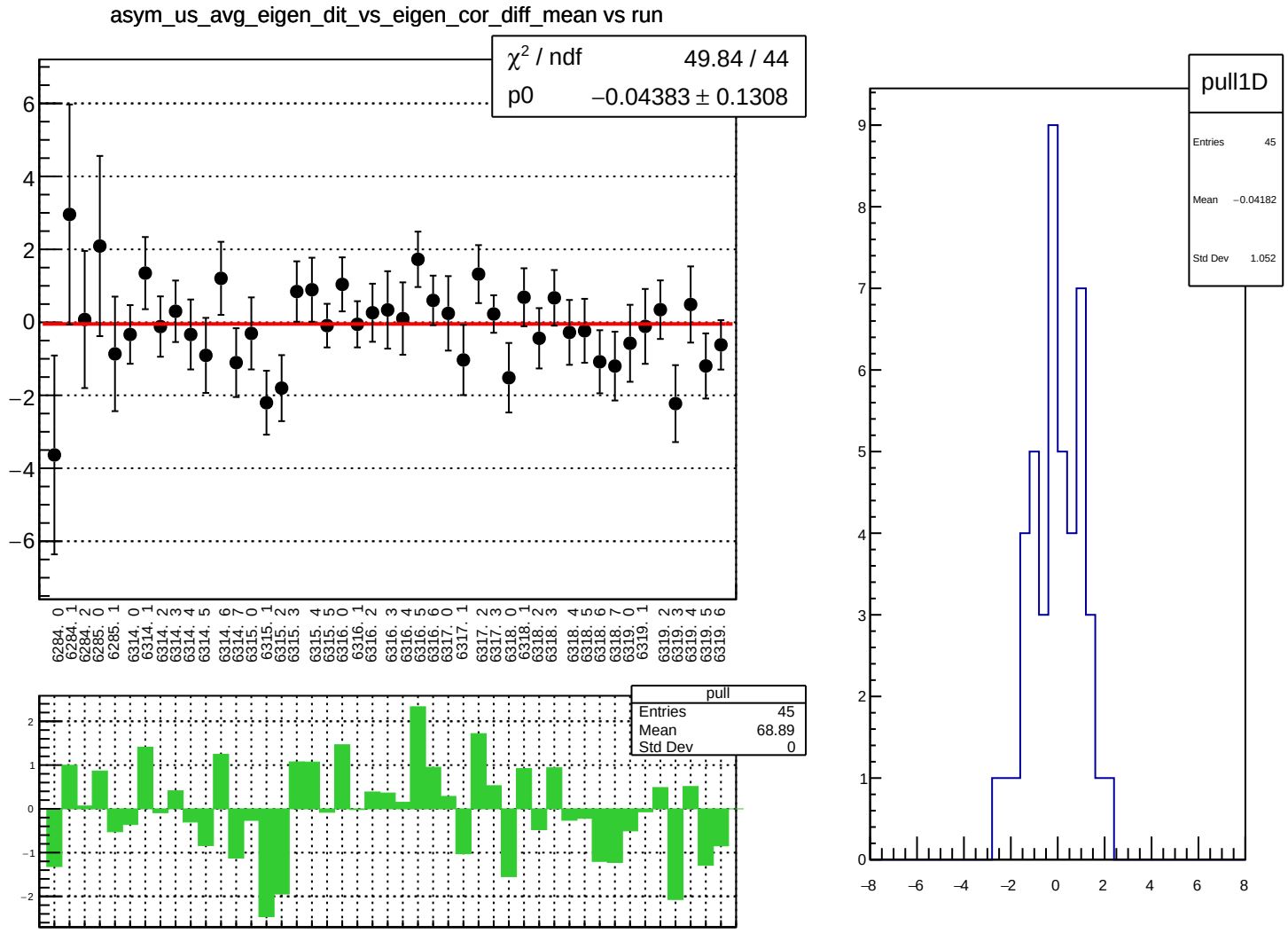

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.42 / 44
p0 8.684e−06 ± 7.968e−06
pull
Entries 45
Mean −3547
Std Dev 0

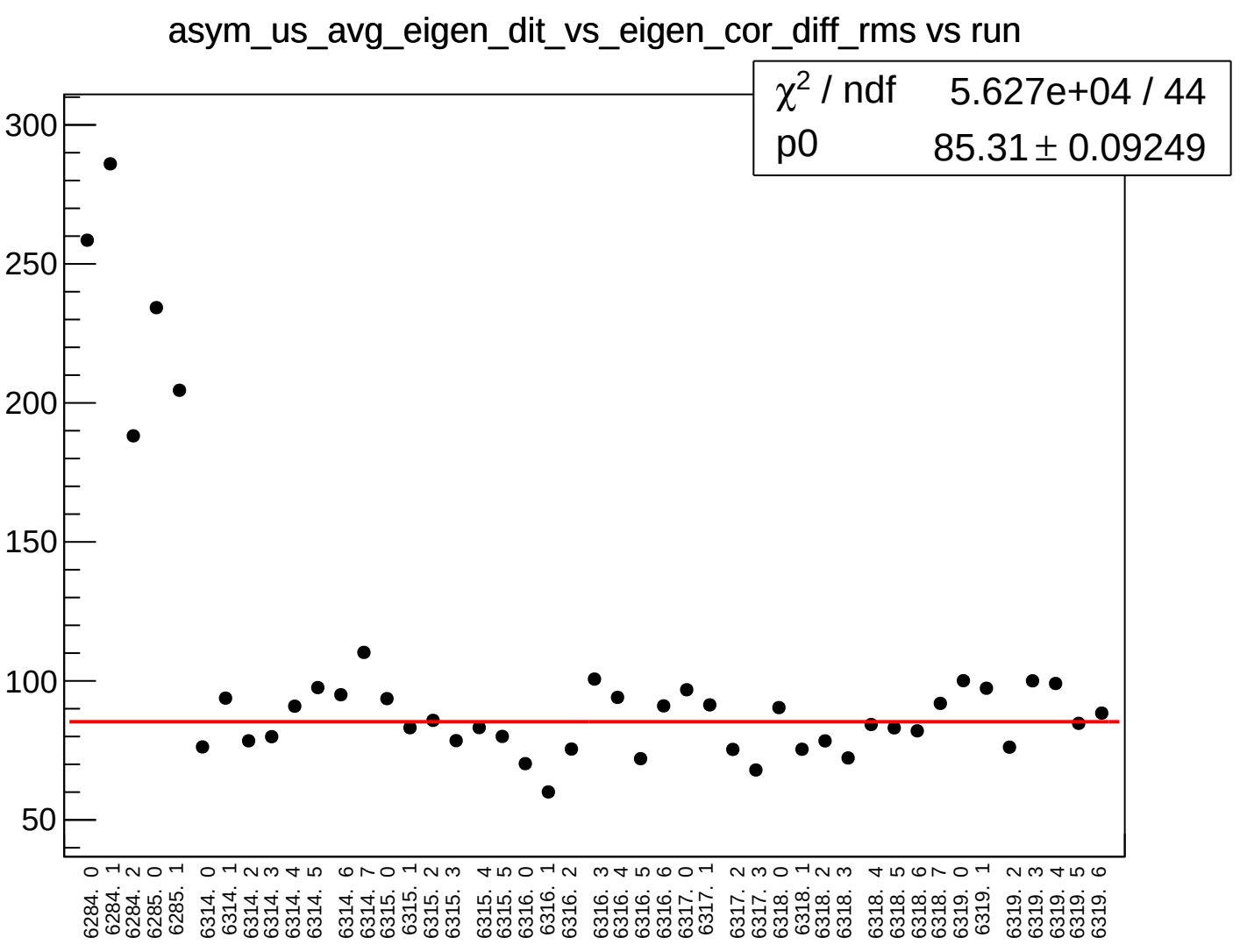

pull1D
Entries 45
Mean −0.0007202
Std Dev 0.9477


asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7980 / 44
p0 0.005343 ± 5.634e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

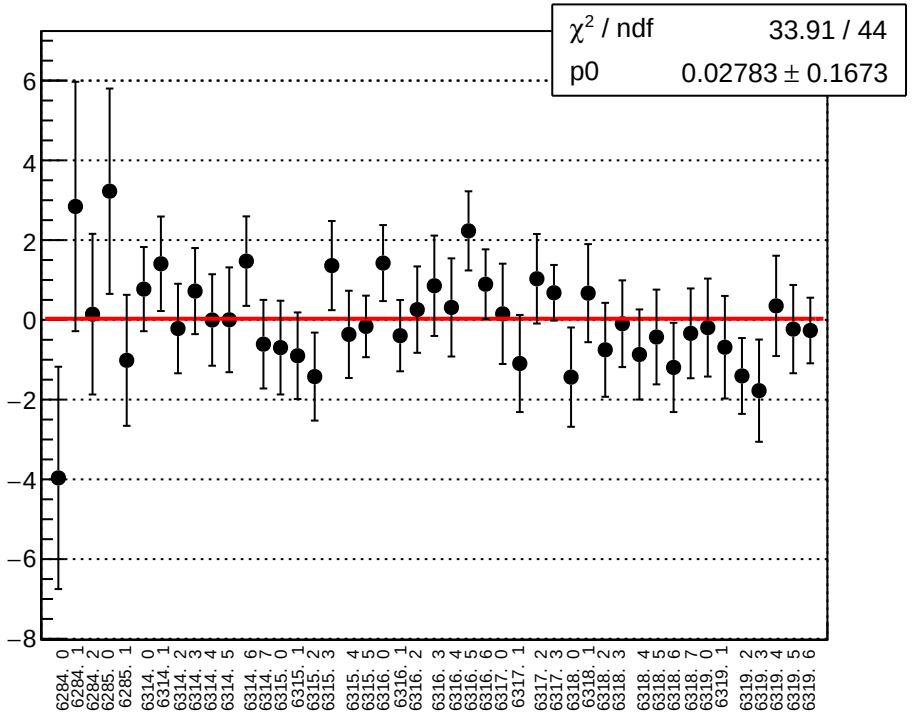

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.84 / 44
p0 −0.04383 ± 0.1308
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 68.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04182
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

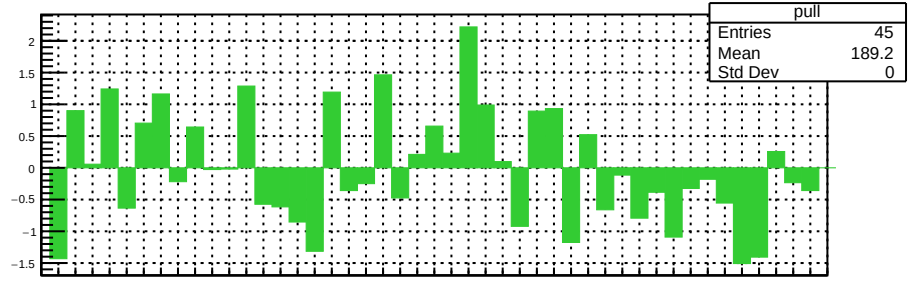

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.627e+04 / 44
p0 85.31 ± 0.09249
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

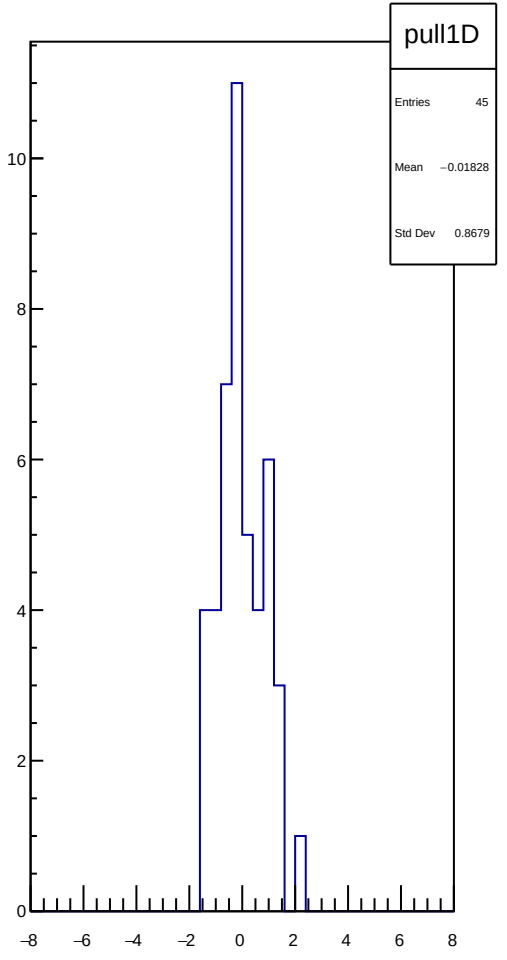

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.84 / 44
p0 −0.04383 ± 0.1308
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 68.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04182
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

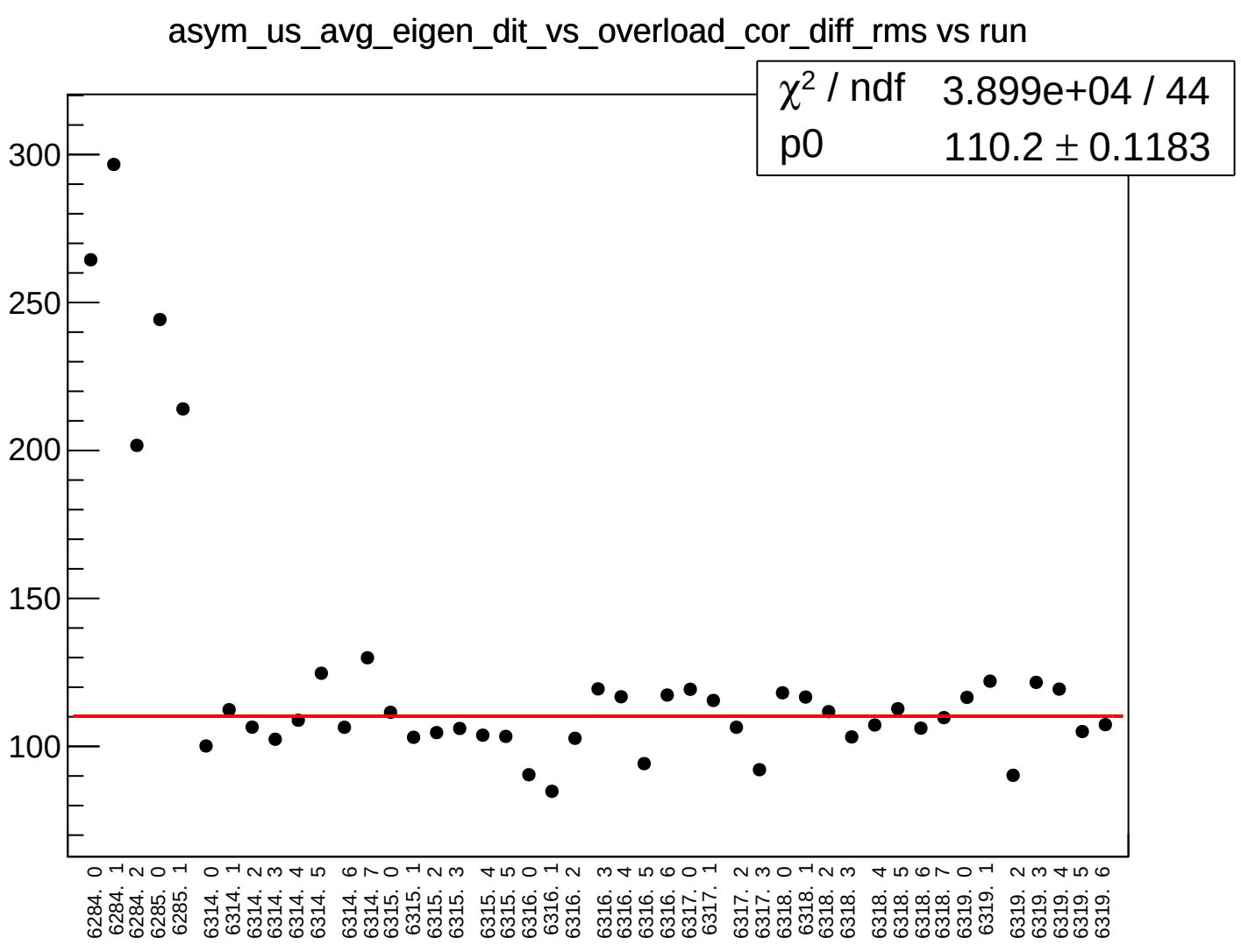

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.627e+04 / 44
p0 85.31 ± 0.09249
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

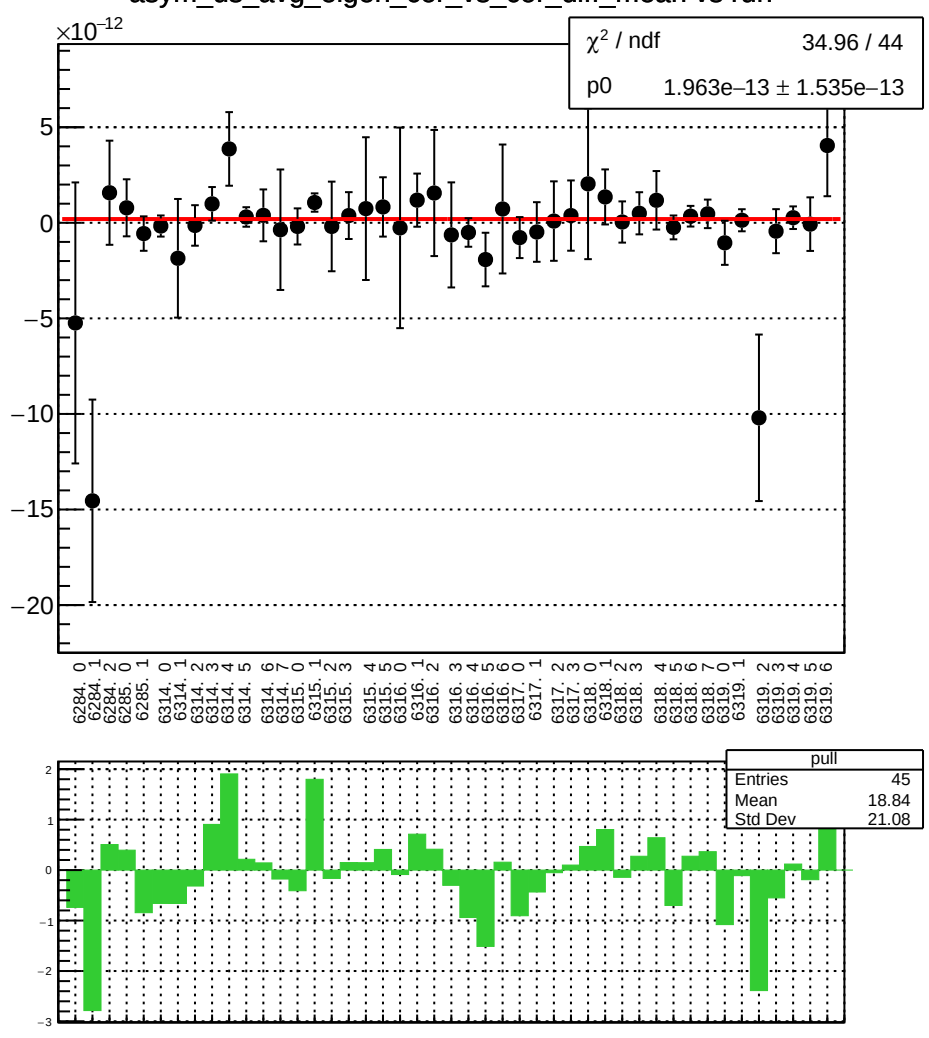
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

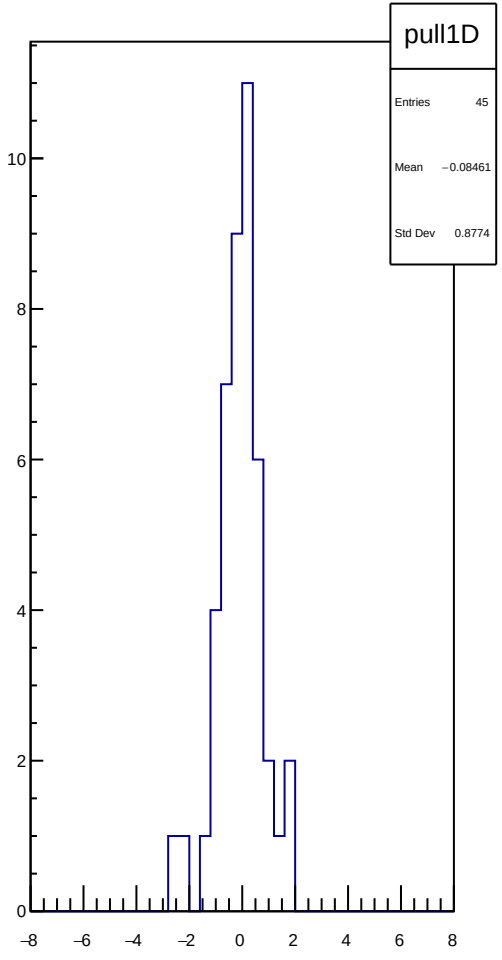


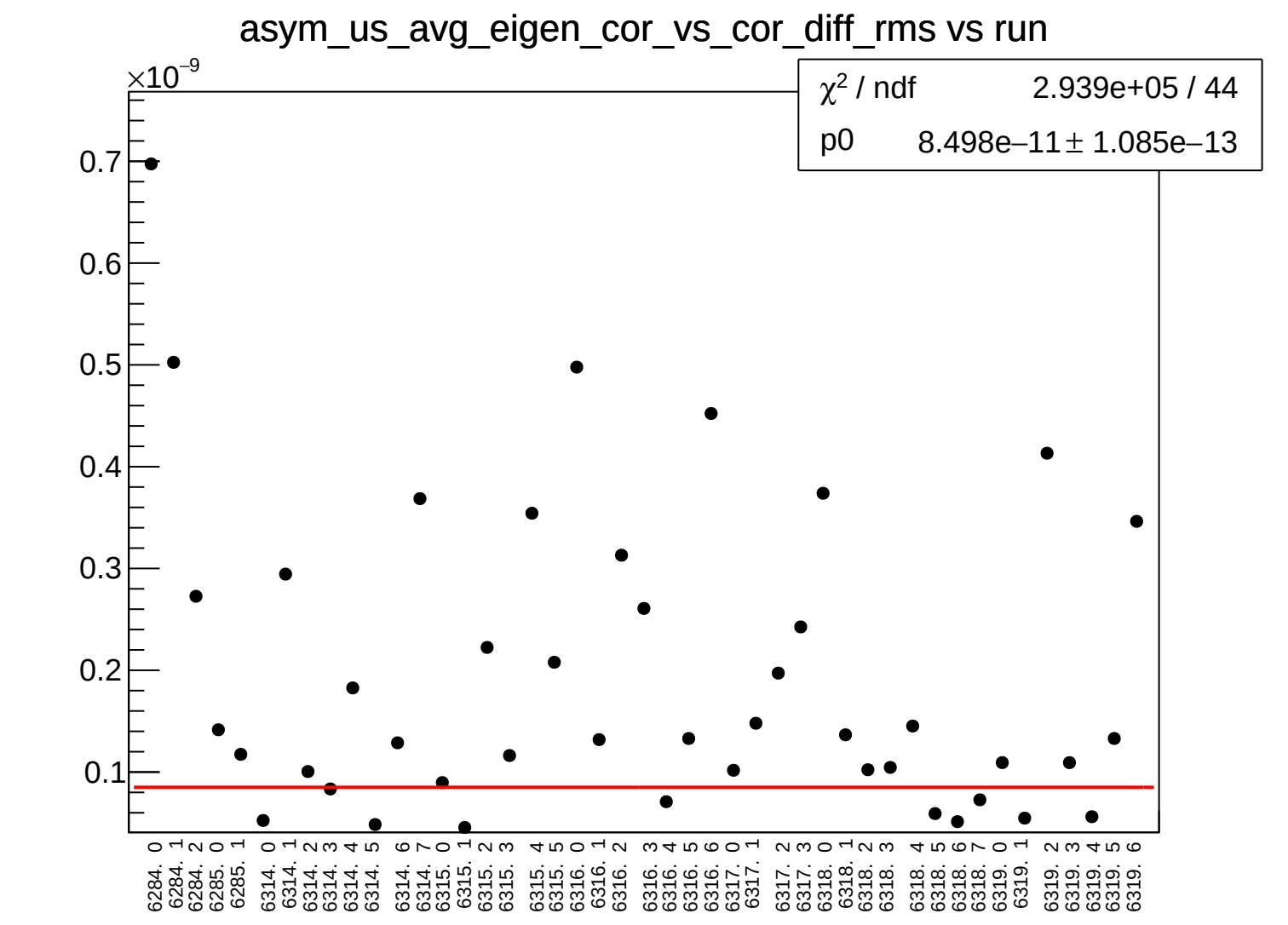


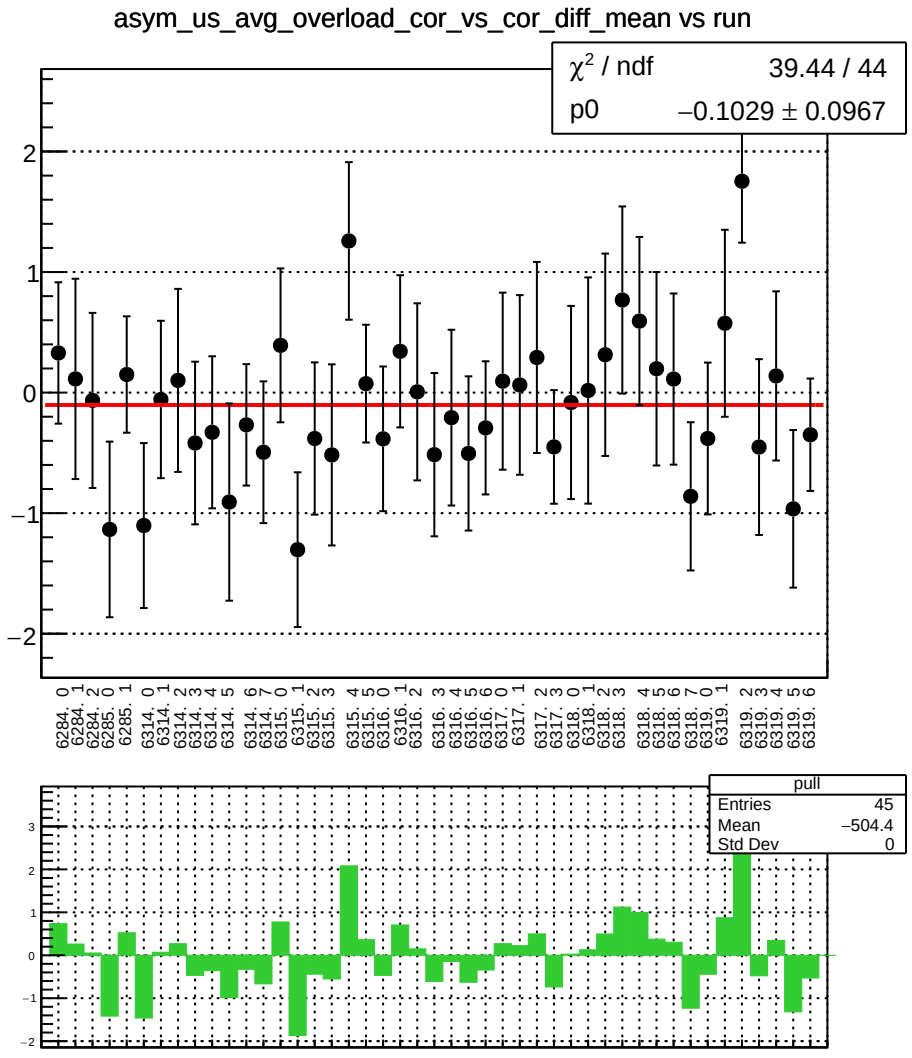


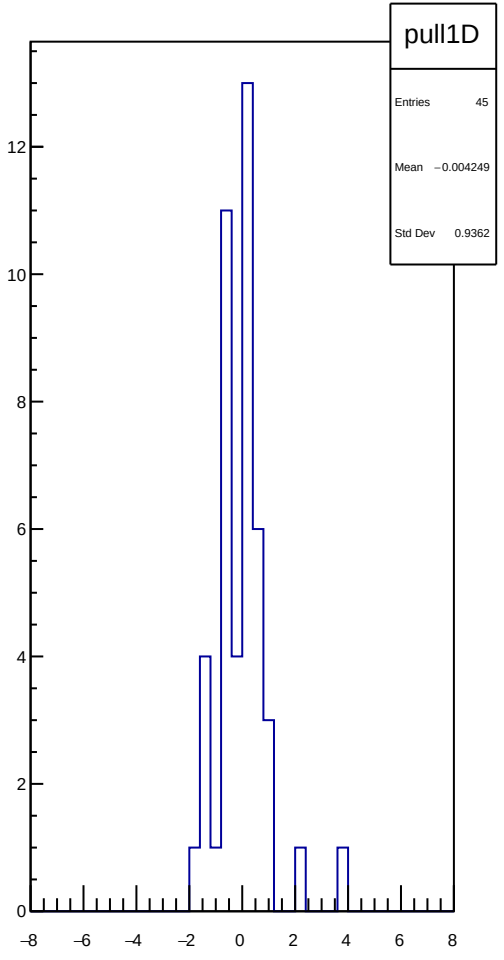

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.899e+04 / 44
p0 110.2 ± 0.1183
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

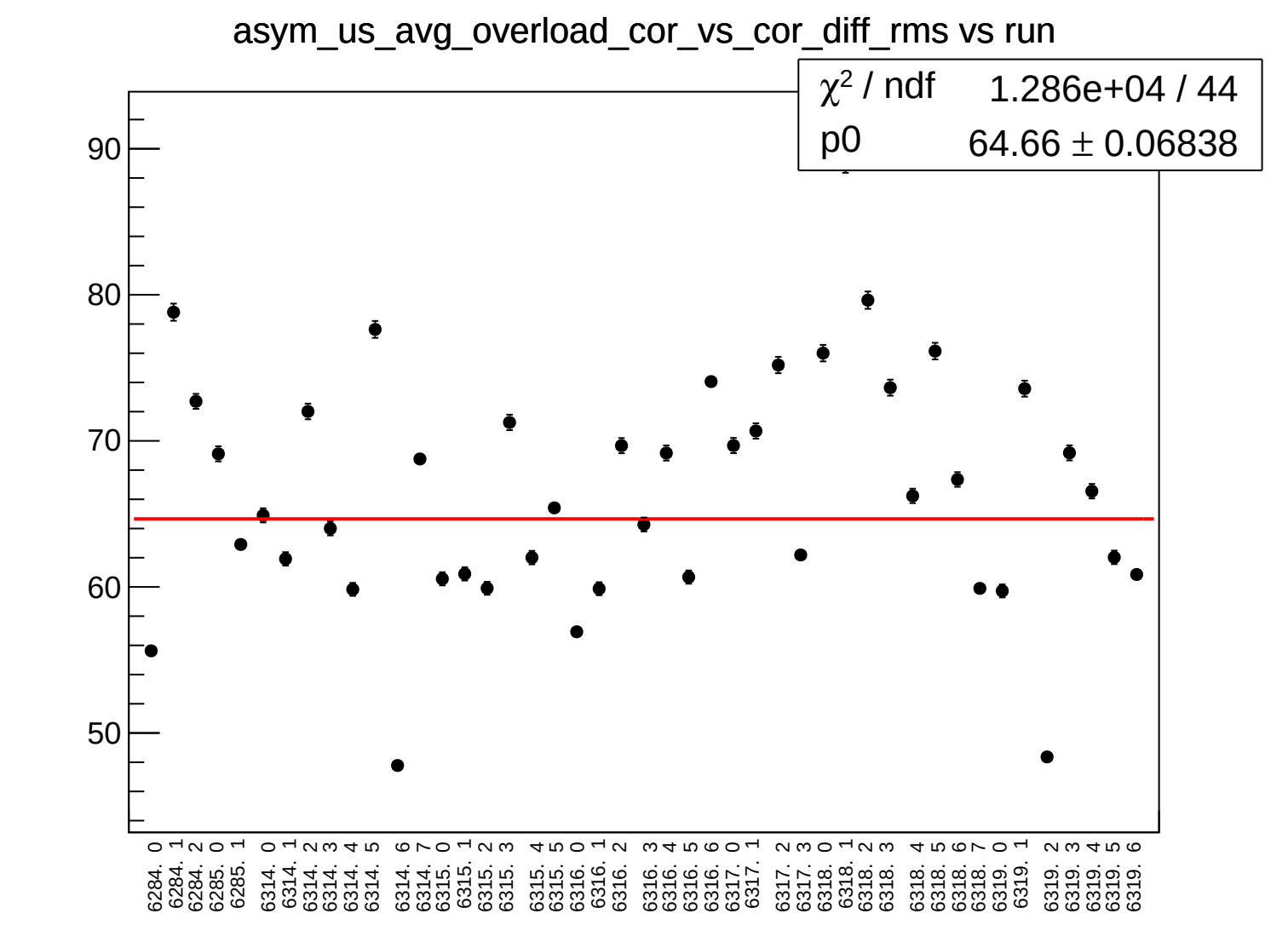

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.96 / 44
p0 1.963e−13 ± 1.535e−13
pull
Entries 45
Mean 18.84
Std Dev 21.08


pull1D
Entries 45
Mean −0.08461
Std Dev 0.8774


asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.939e+05 / 44
p0 8.498e−11 ± 1.085e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 39.44 / 44
p0 −0.1029 ± 0.0967
pull
Entries 45
Mean −504.4
Std Dev 0


pull1D
Entries 45
Mean −0.004249
Std Dev 0.9362


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.286e+04 / 44
p0 64.66 ± 0.06838
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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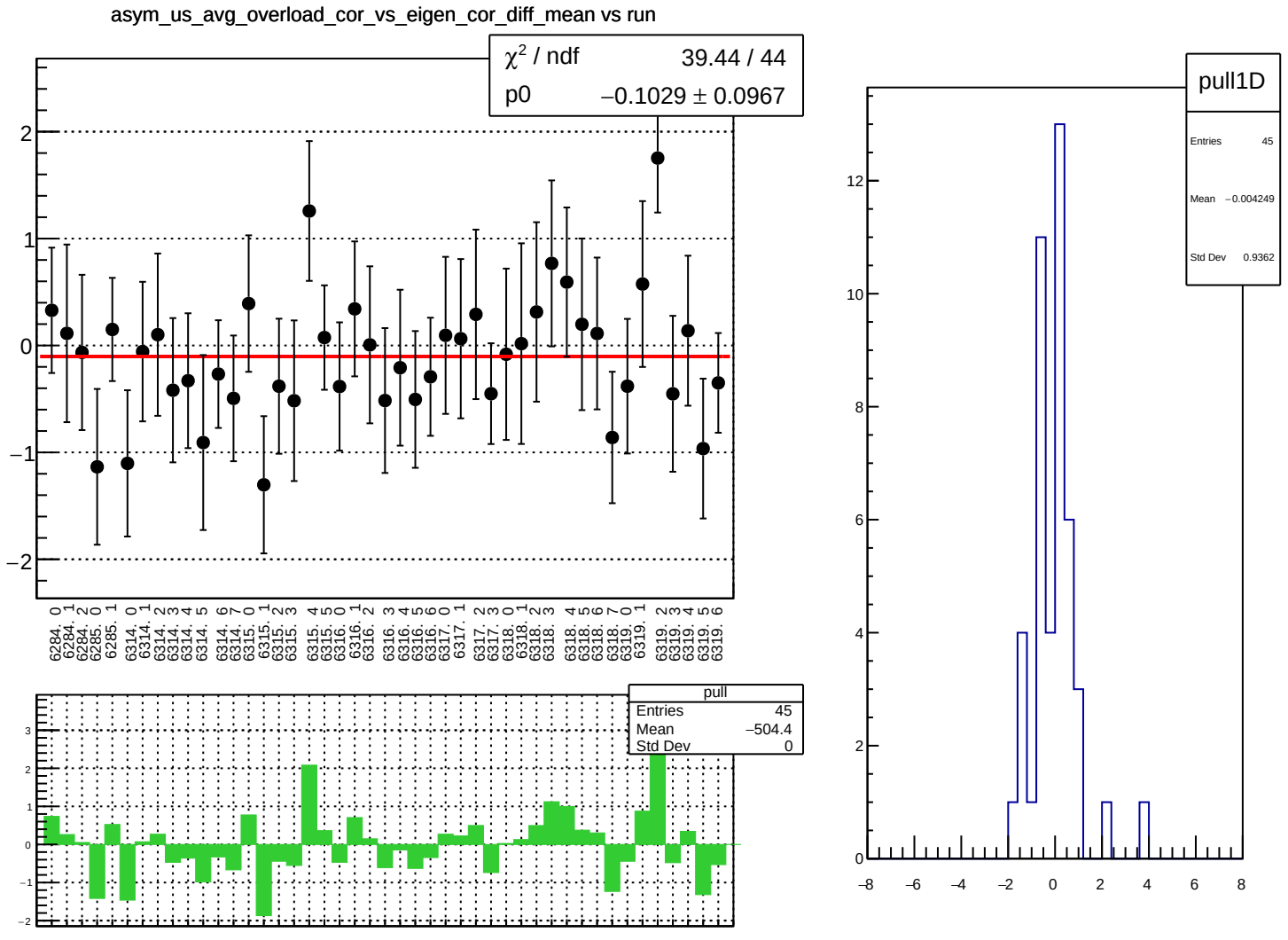
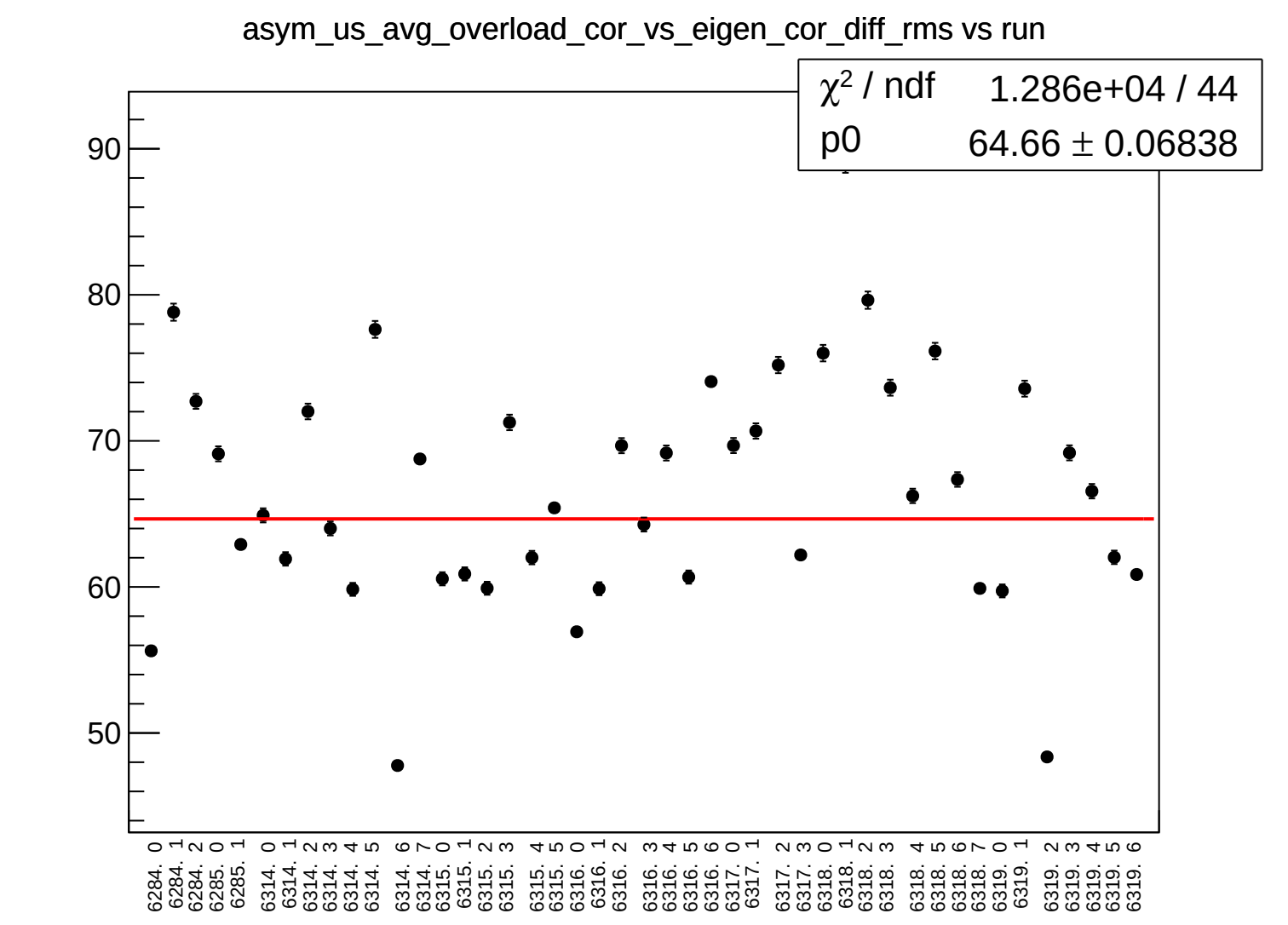
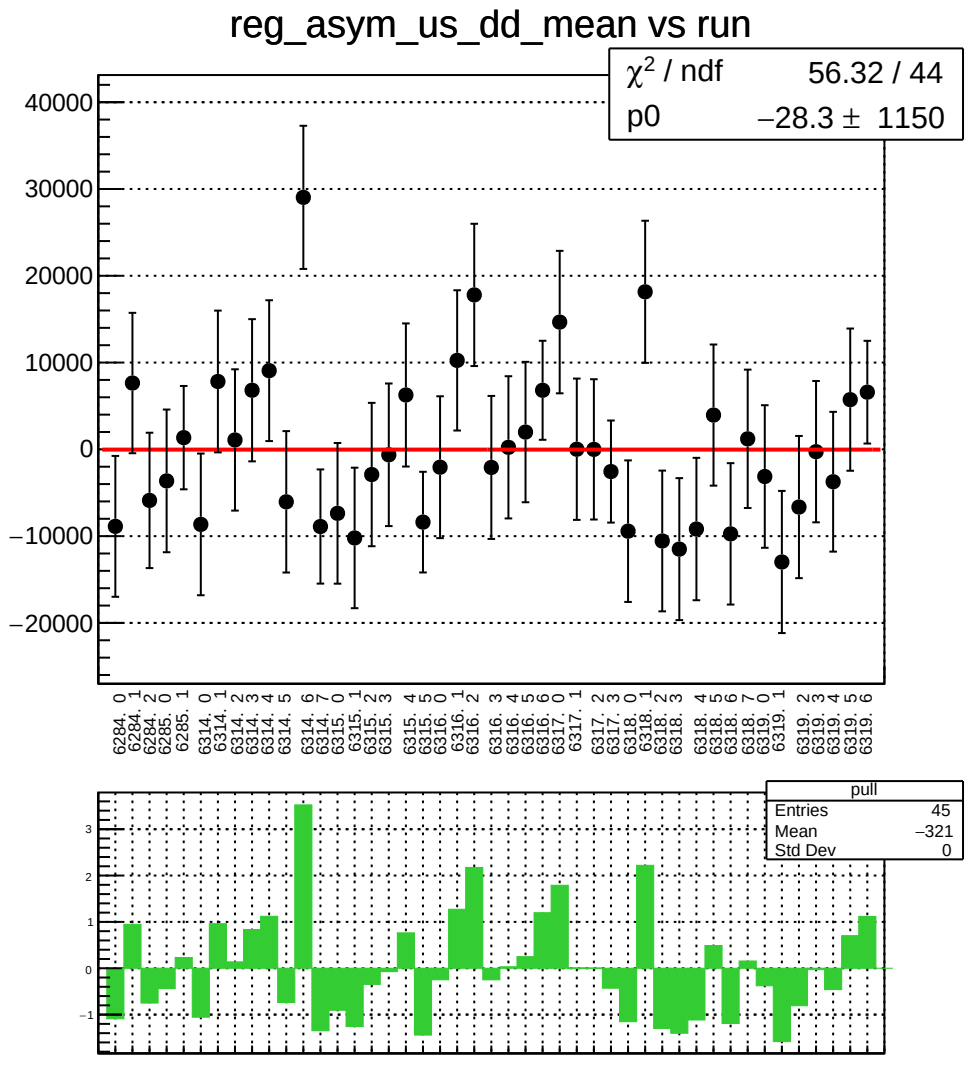
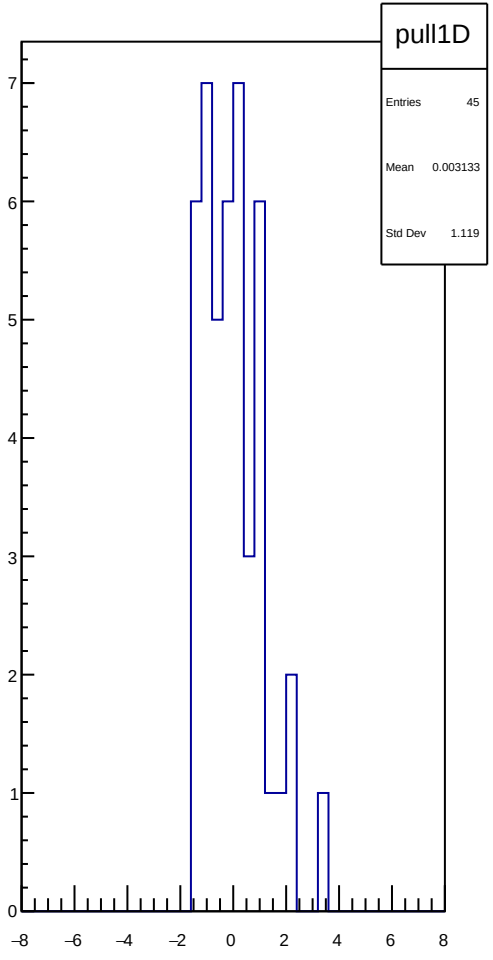
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.44 / 44
p0 −0.1029 ± 0.0967
pull
Entries 45
Mean −504.4
Std Dev 0
pull1D
Entries 45
Mean −0.004249
Std Dev 0.9362


asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.286e+04 / 44
p0 64.66 ± 0.06838
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_us_dd_mean vs run
χ² / ndf 56.32 / 44
p0 −28.3 ± 1150
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −321
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean 0.003133
Std Dev 1.119
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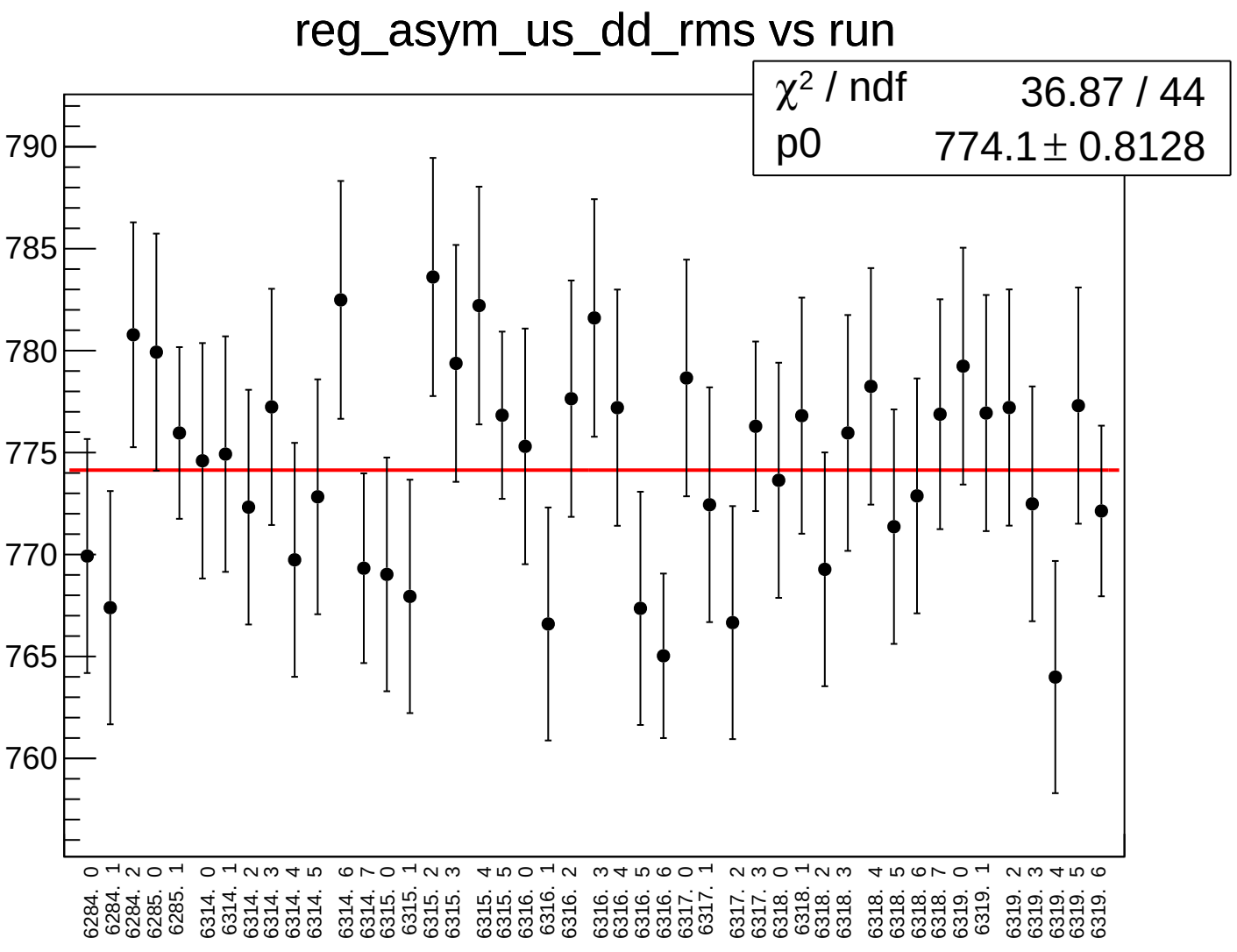
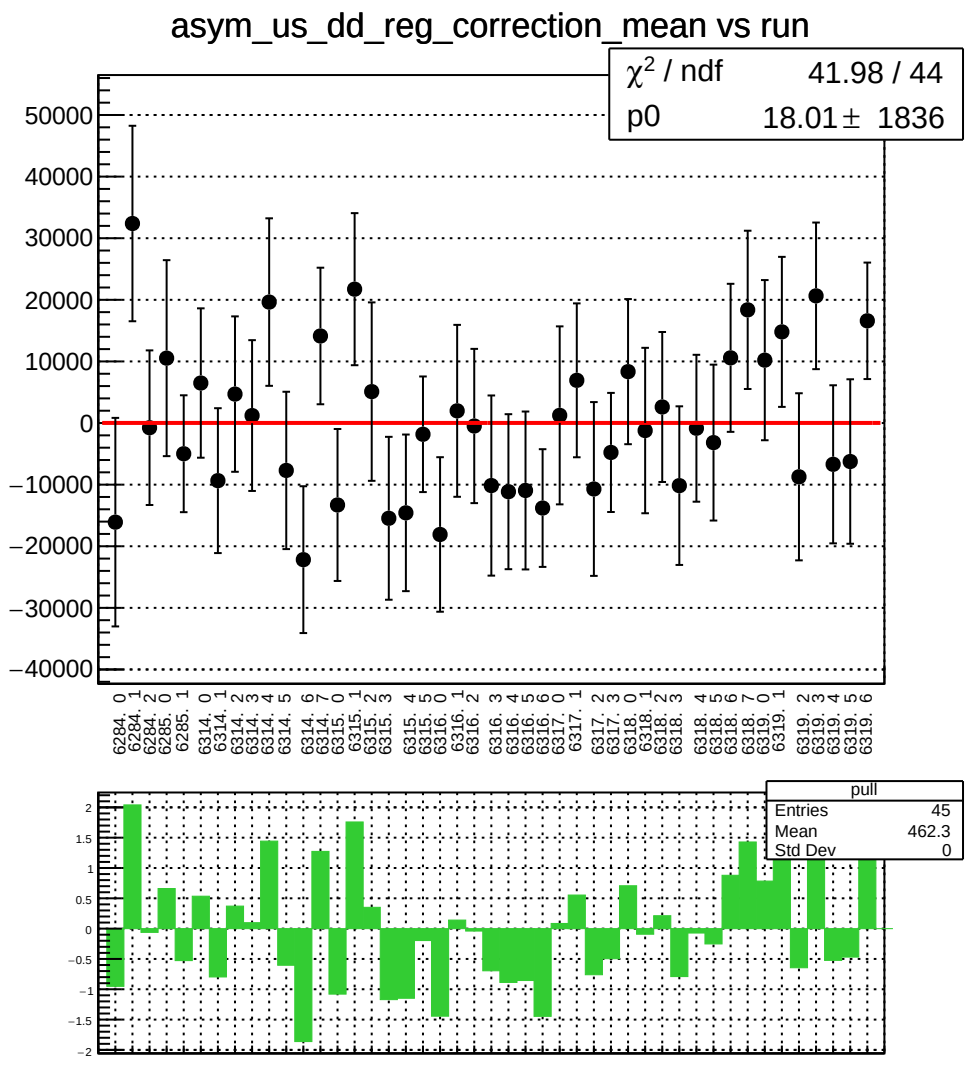
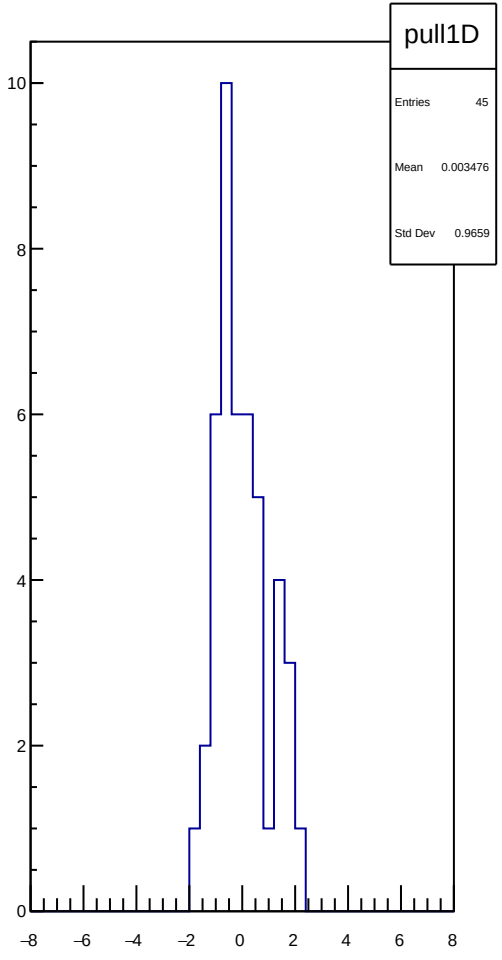
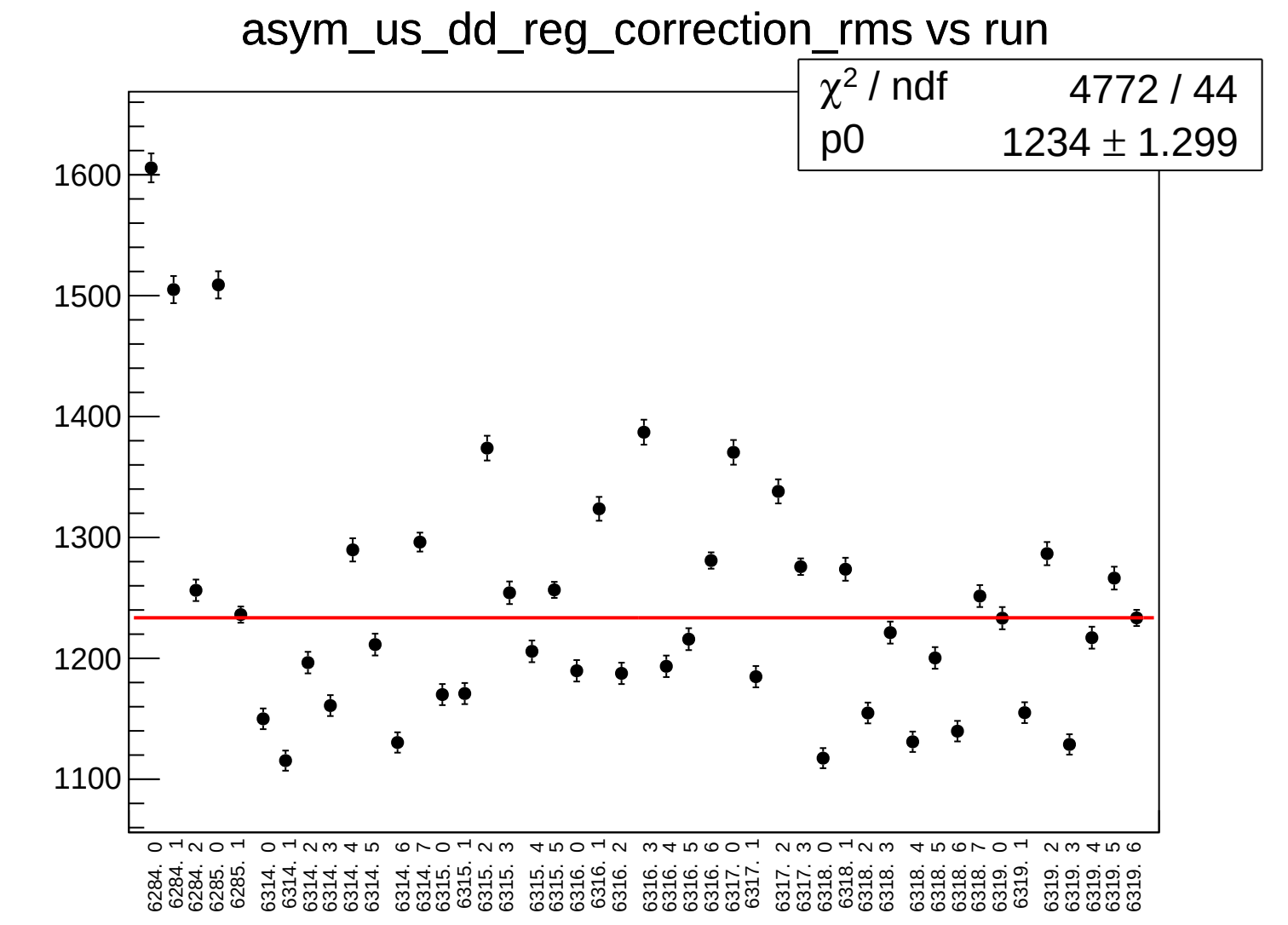
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_rms vs run
χ² / ndf 36.87 / 44
p0 774.1 ± 0.8128
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_reg_correction_mean vs run
χ² / ndf 41.98 / 44
p0 18.01 ± 1836
pull
Entries 45
Mean 462.3
Std Dev 0


pull1D
Entries 45
Mean 0.003476
Std Dev 0.9659


asym_us_dd_reg_correction_rms vs run
χ² / ndf 4772 / 44
p0 1234 ± 1.299
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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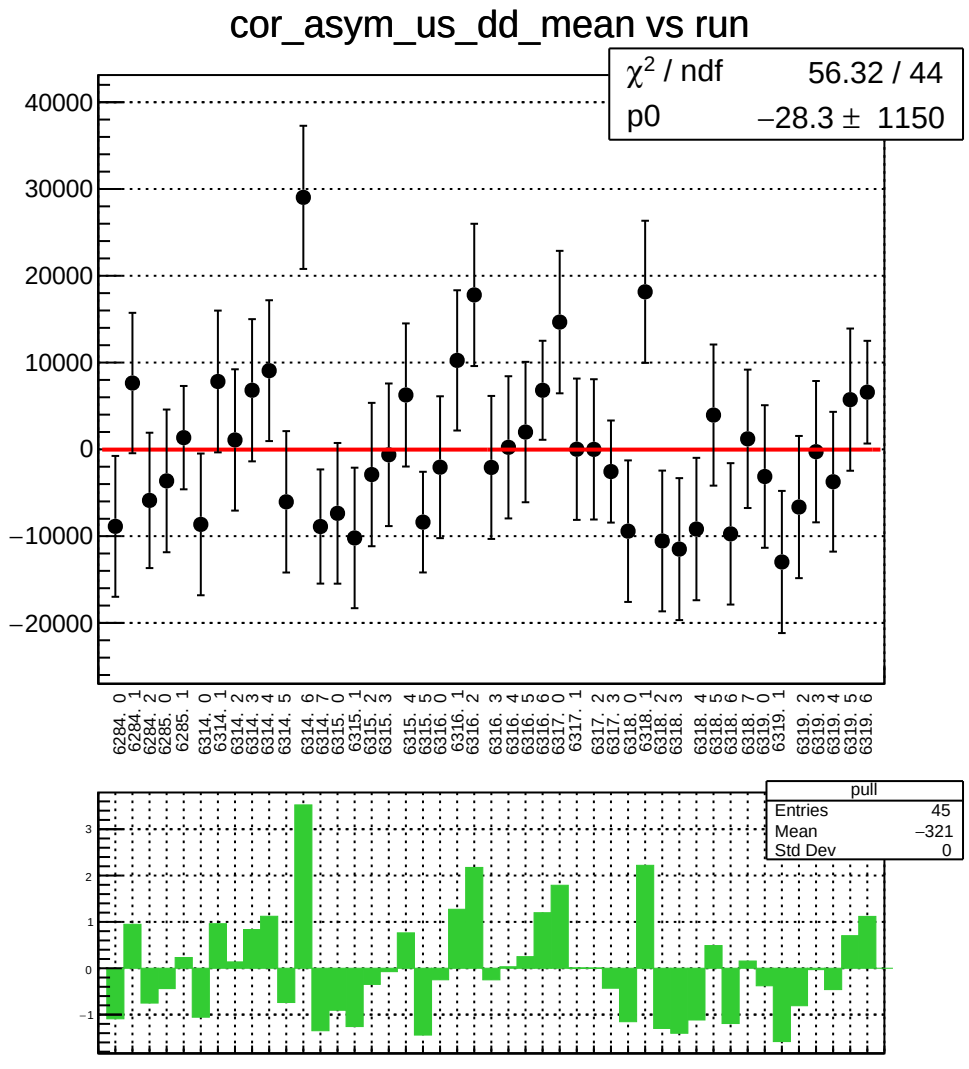
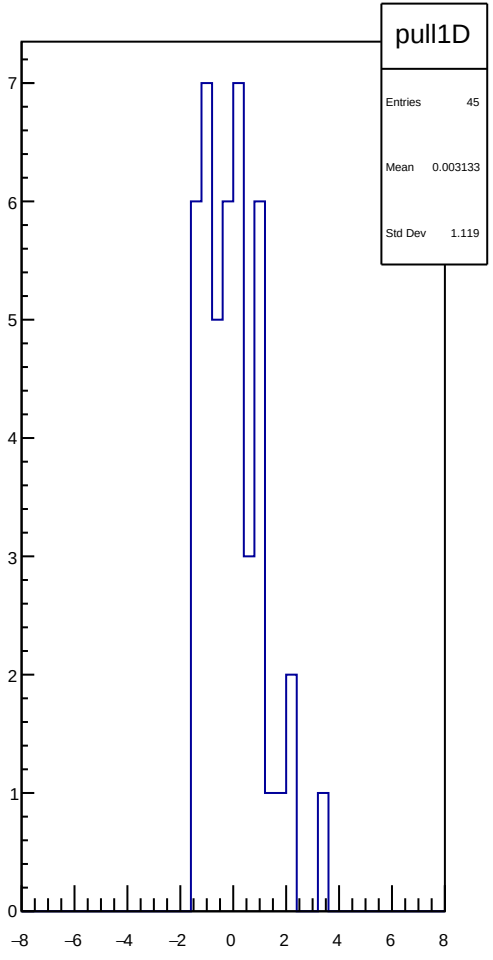
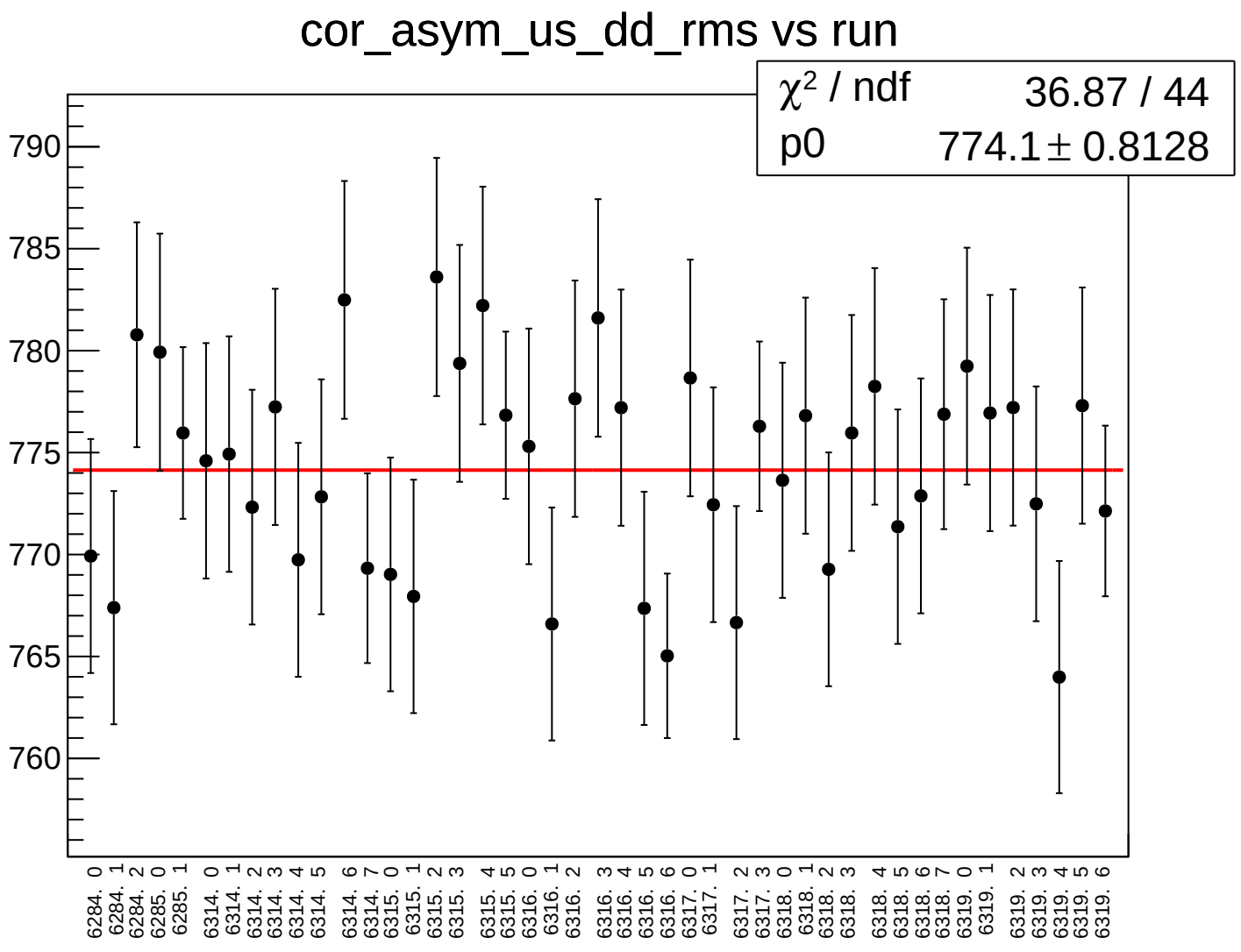
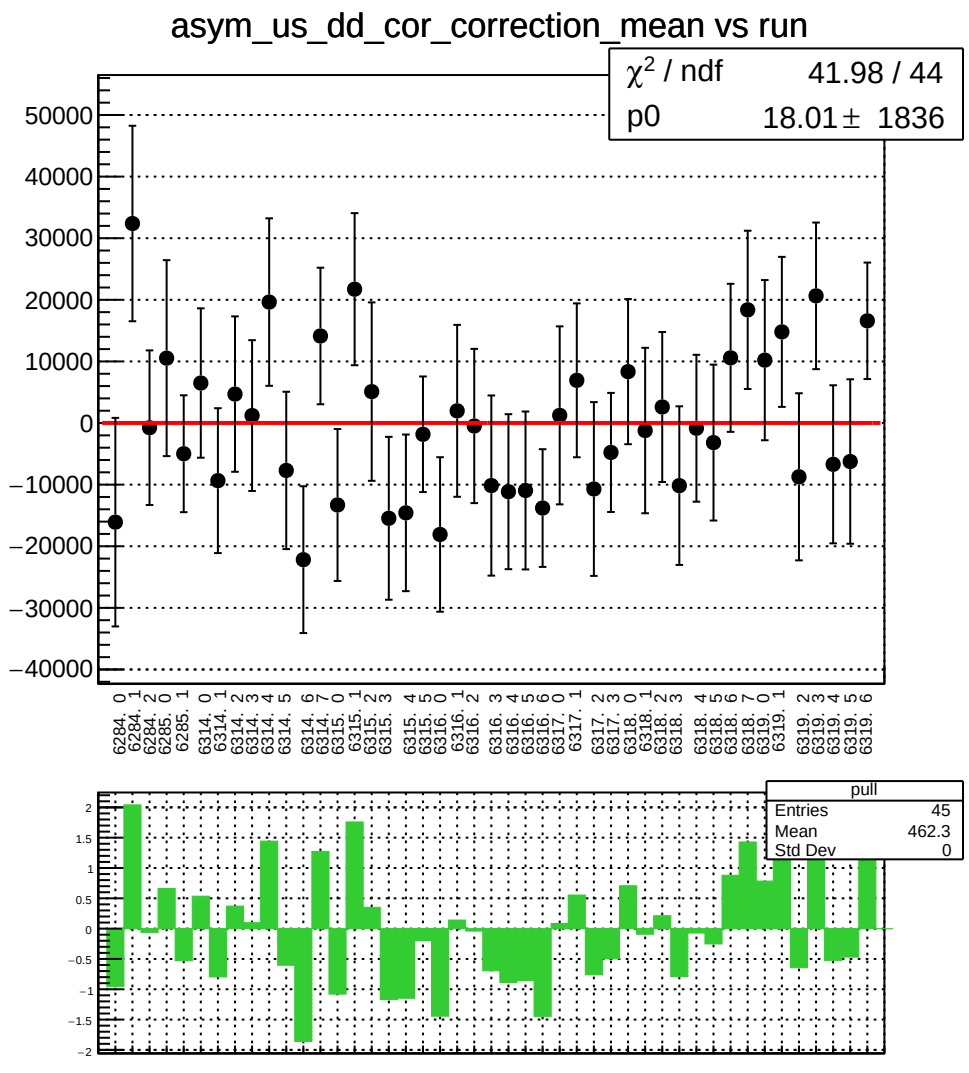
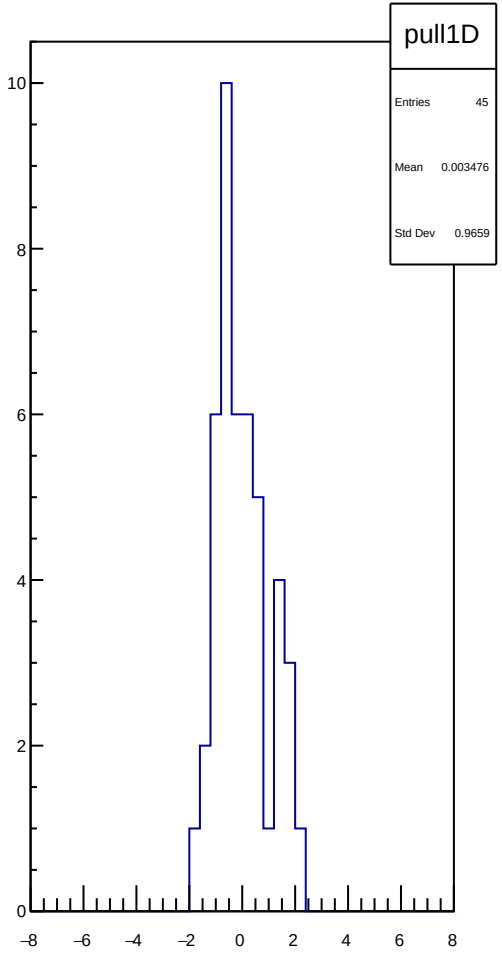
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

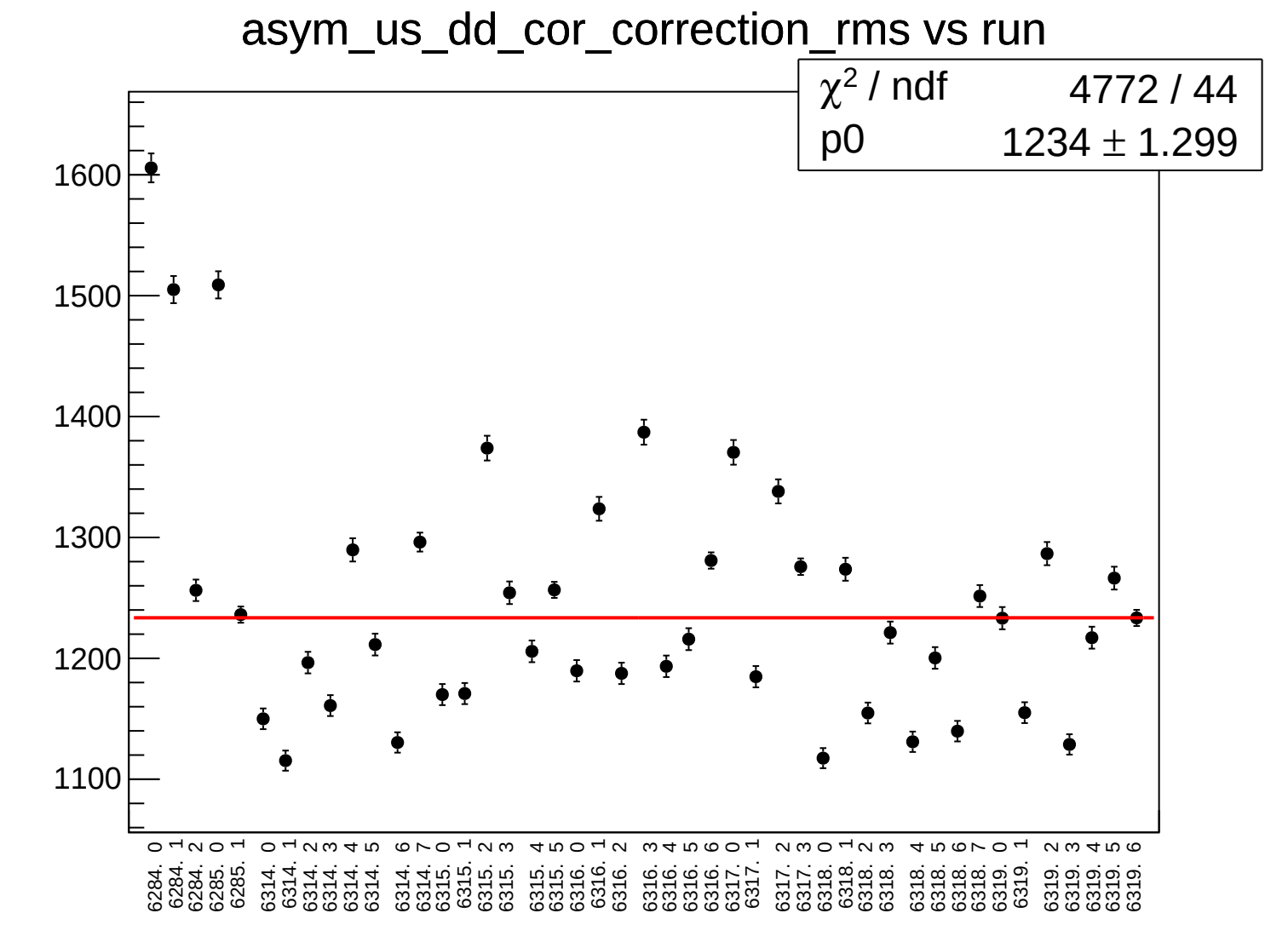

cor_asym_us_dd_mean vs run
χ² / ndf 56.32 / 44
p0 −28.3 ± 1150
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −321
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean 0.003133
Std Dev 1.119
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_rms vs run
χ² / ndf 36.87 / 44
p0 774.1 ± 0.8128
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_cor_correction_mean vs run
χ² / ndf 41.98 / 44
p0 18.01 ± 1836
pull
Entries 45
Mean 462.3
Std Dev 0


pull1D
Entries 45
Mean 0.003476
Std Dev 0.9659


asym_us_dd_cor_correction_rms vs run
χ² / ndf 4772 / 44
p0 1234 ± 1.299
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
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6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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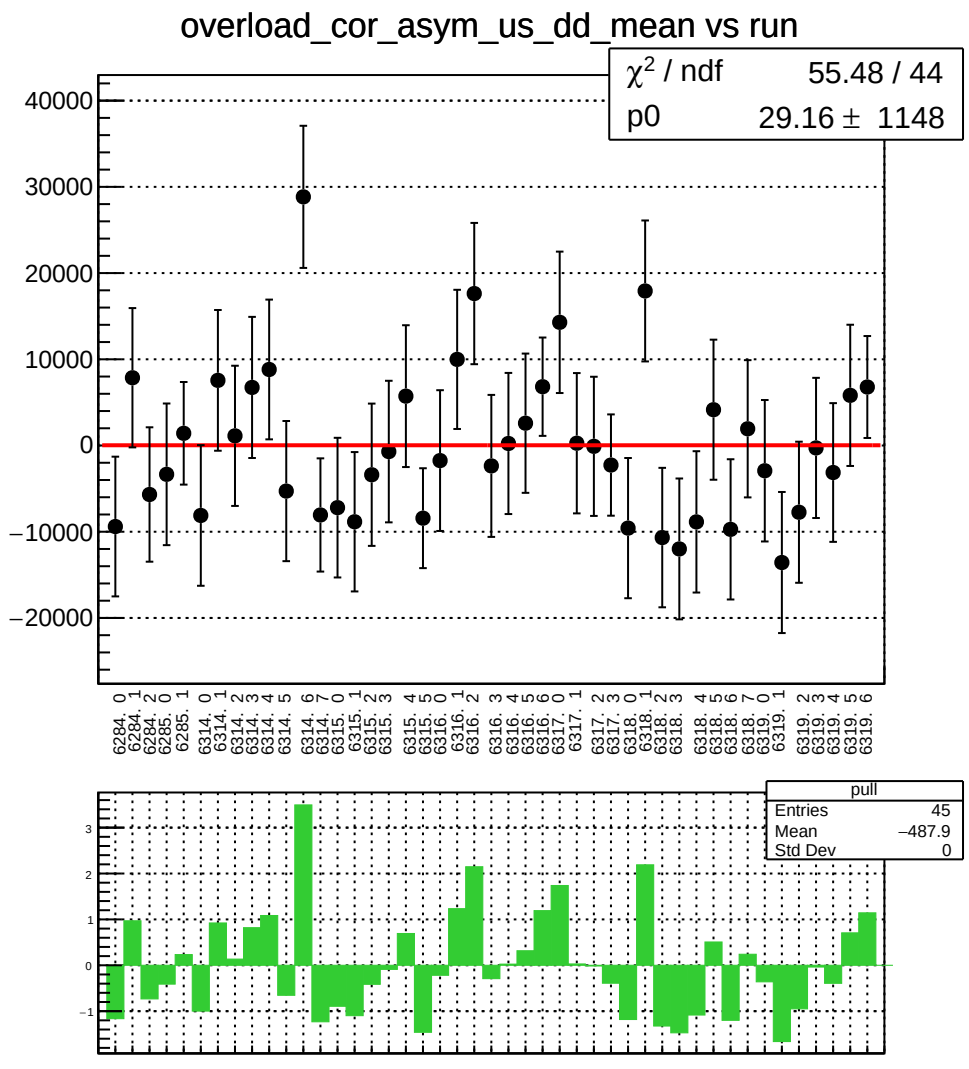
overload_cor_asym_us_dd_mean vs run
χ² / ndf 55.48 / 44
p0 29.16 ± 1148
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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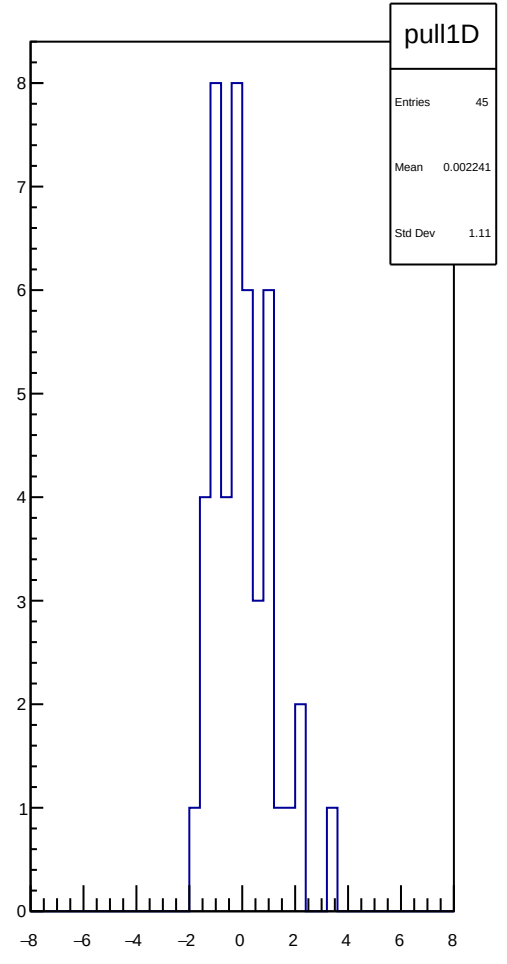
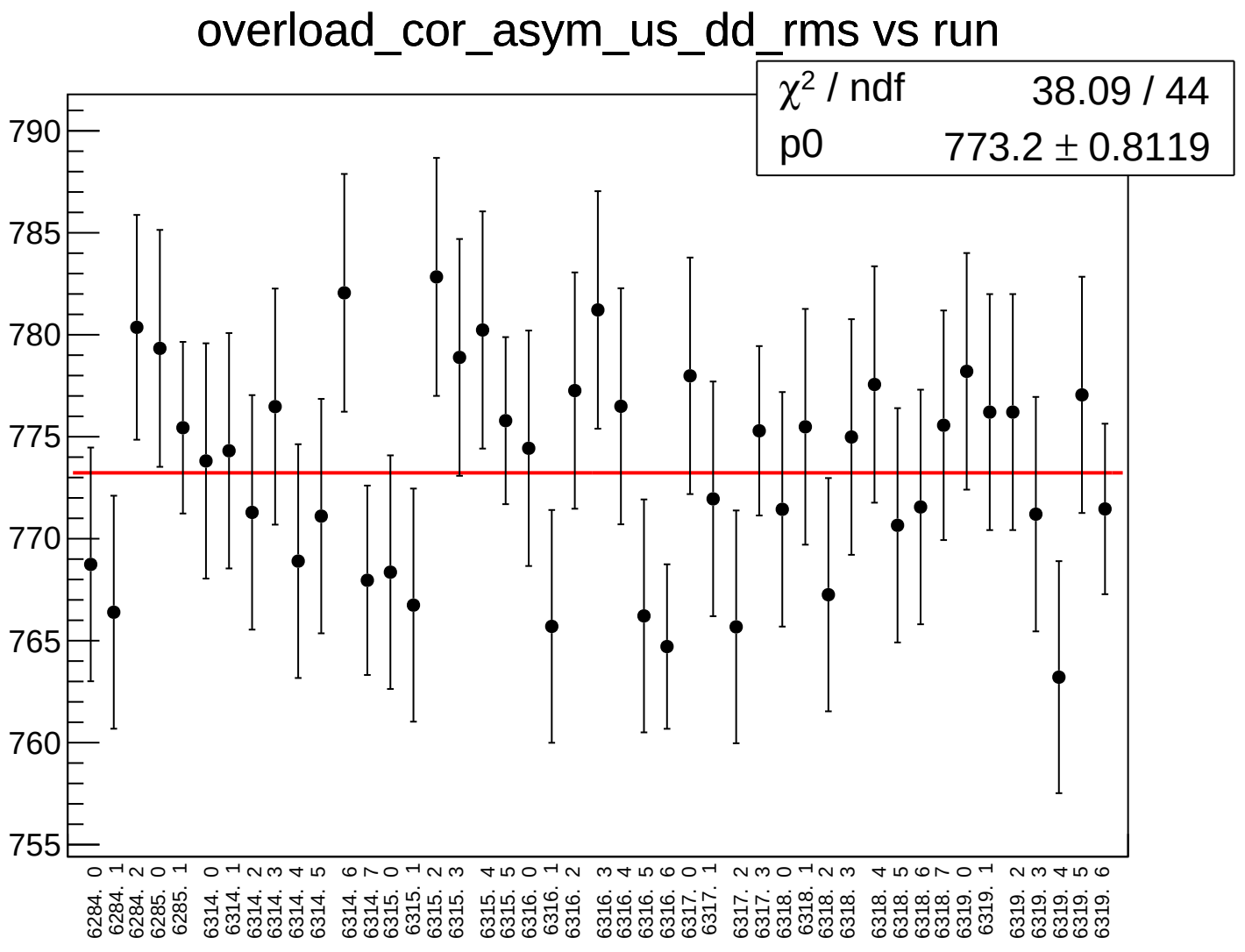
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −487.9
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean 0.002241
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 38.09 / 44
p0 773.2 ± 0.8119
790
785
780
775
770
765
760
755
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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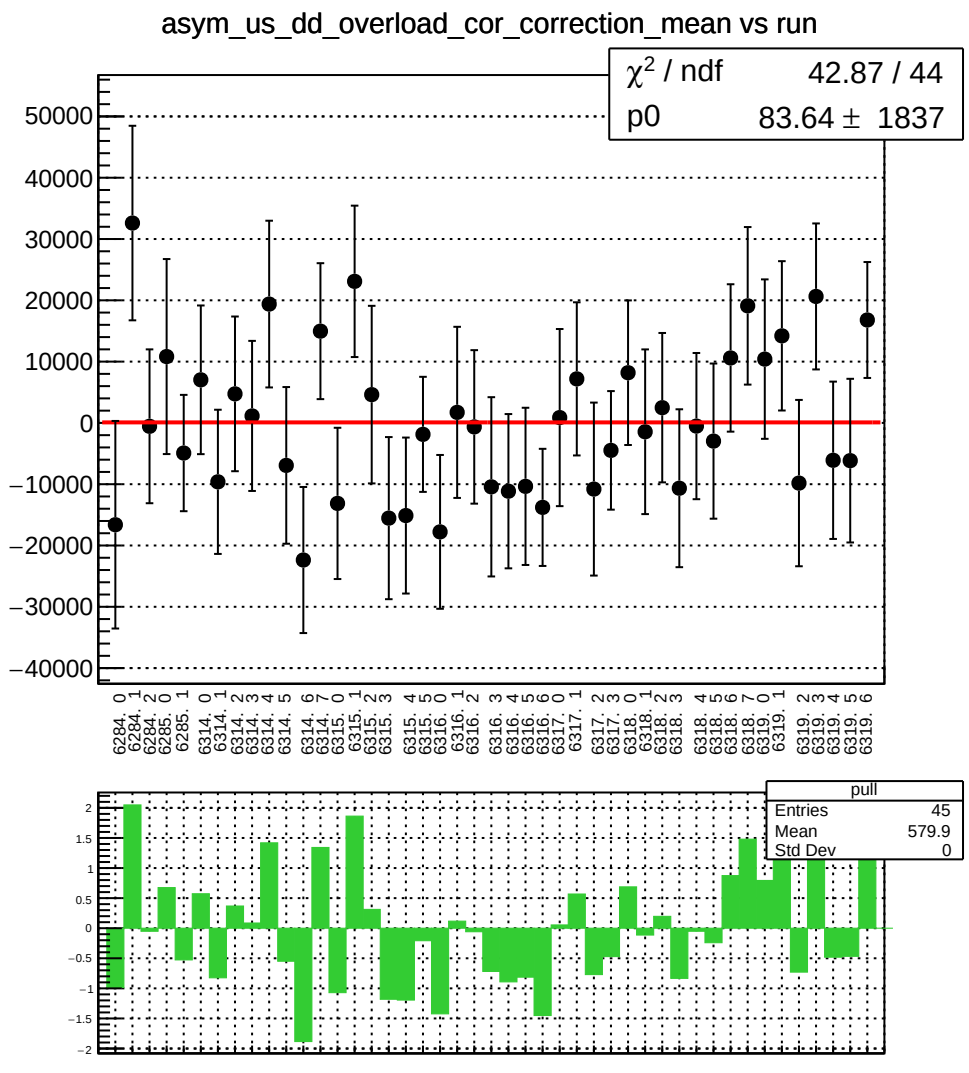
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 42.87 / 44
p0 83.64 ± 1837
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 579.9
Std Dev 0
2
1.5
1
0.5
0
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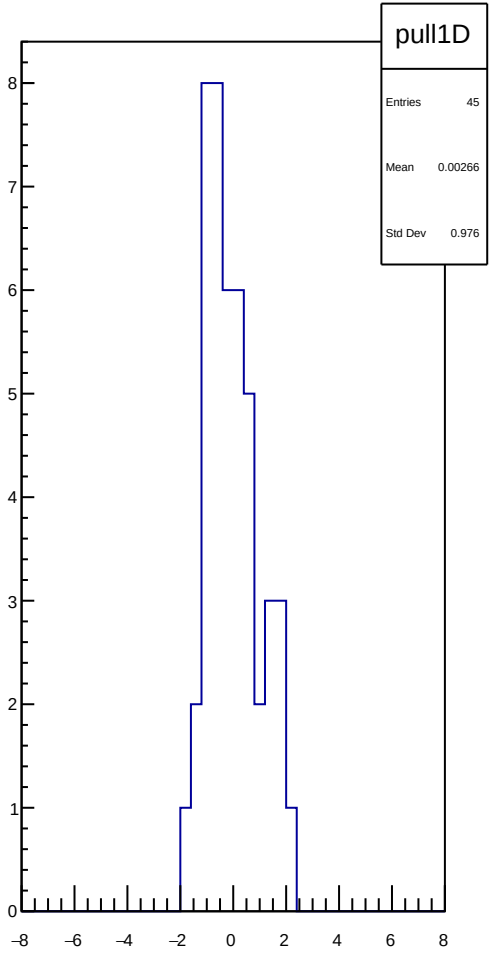
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00266
Std Dev 0.976
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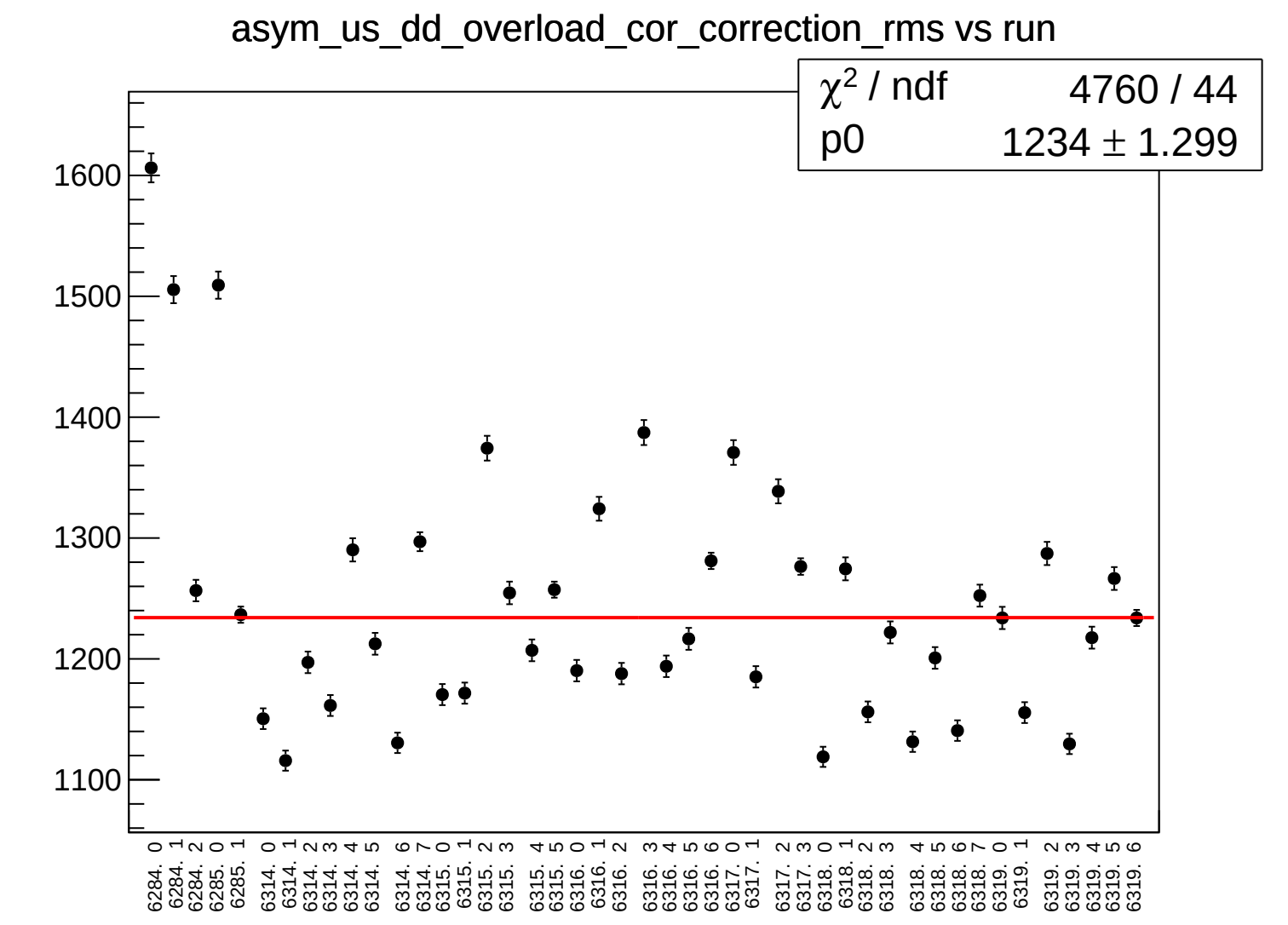
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4760 / 44
p0 1234 ± 1.299
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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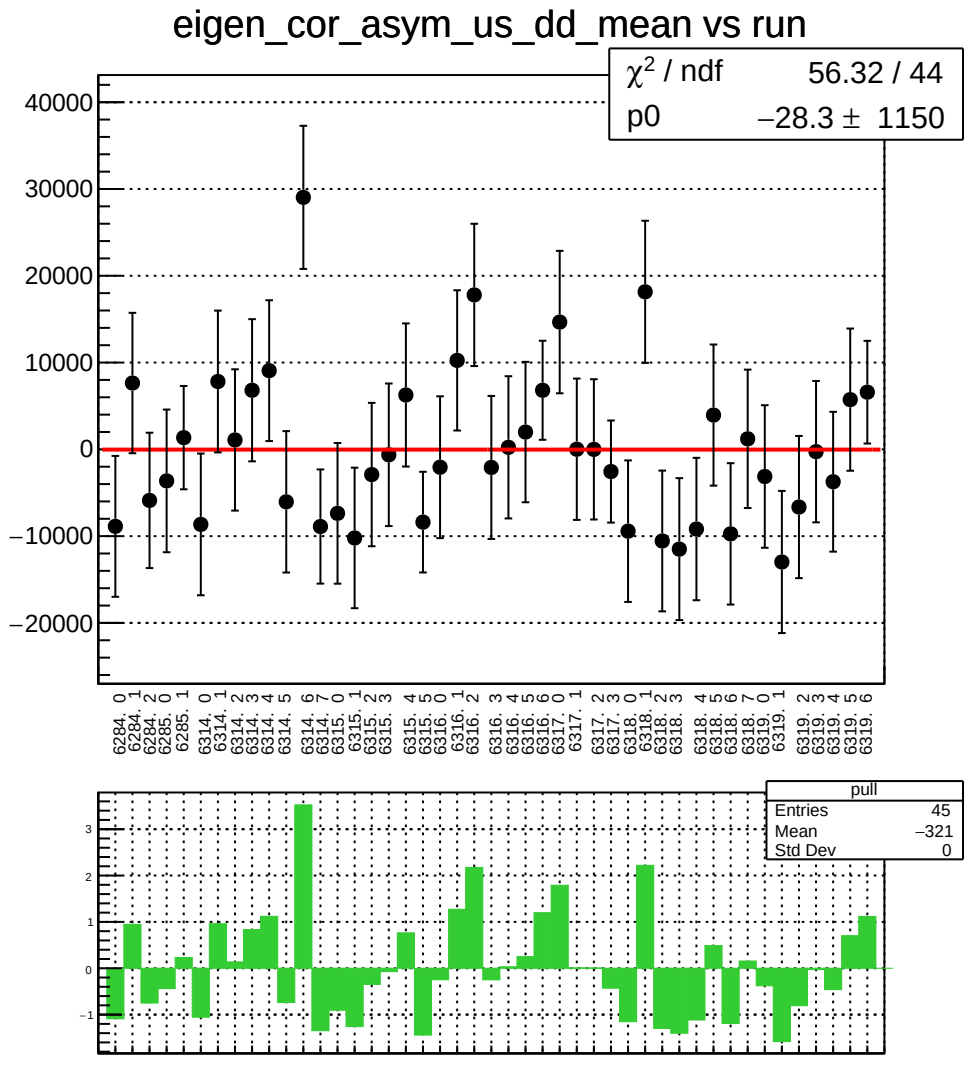
6319. 5
6319. 6


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 56.32 / 44
p0 −28.3 ± 1150
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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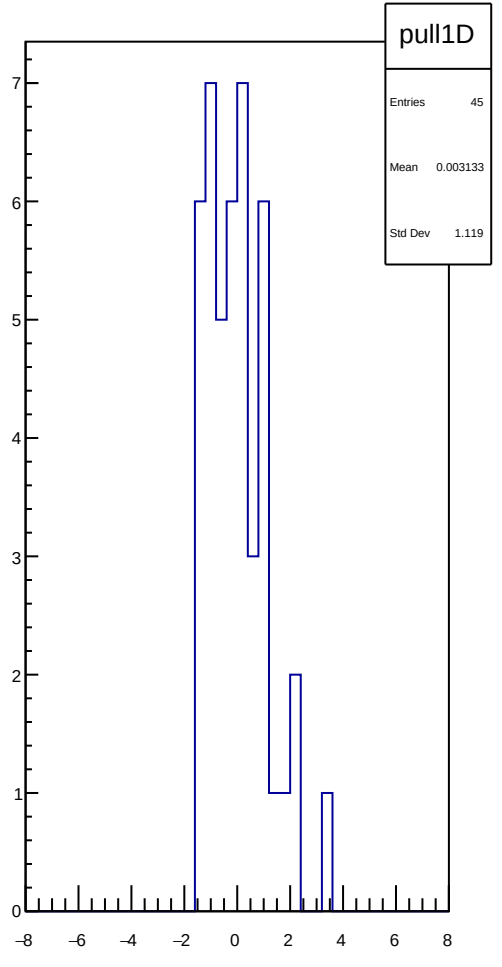
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −321
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean 0.003133
Std Dev 1.119
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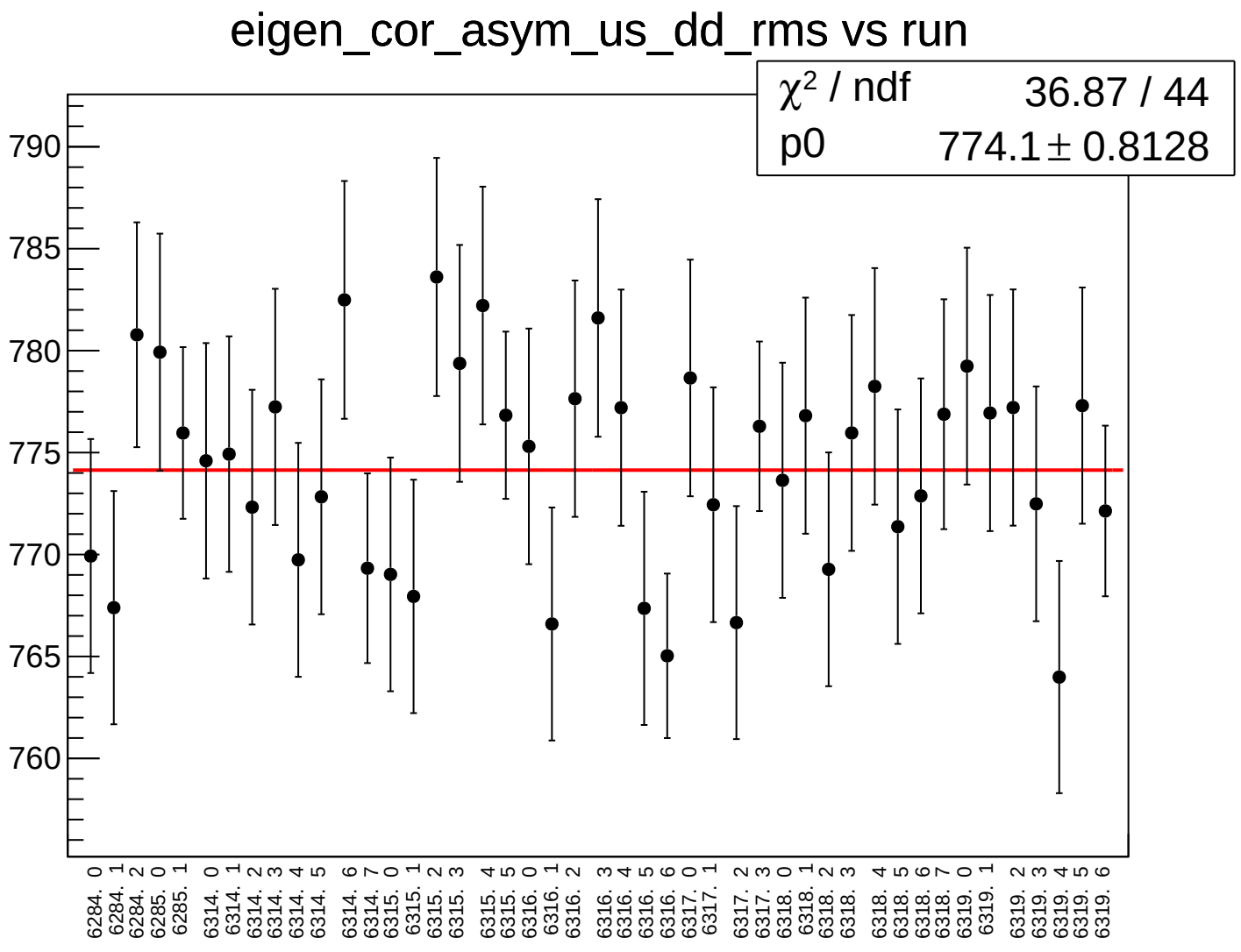
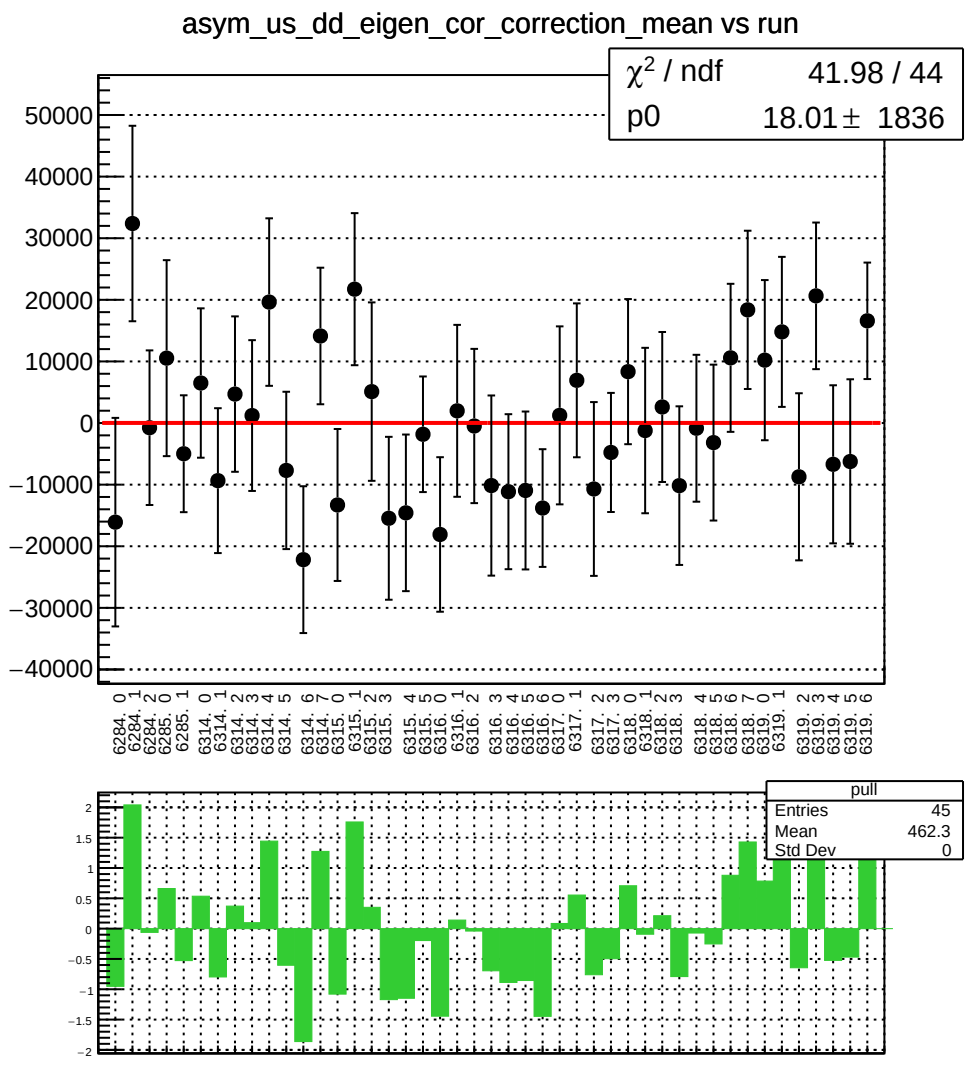
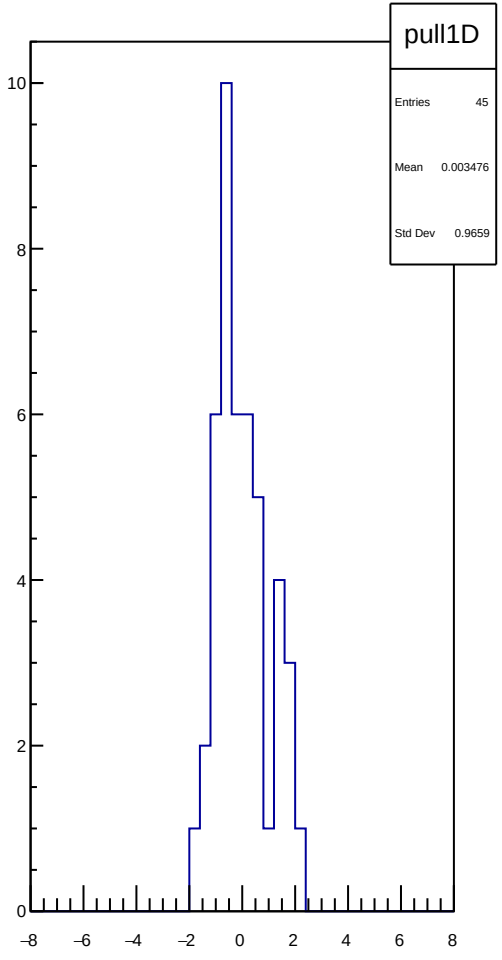
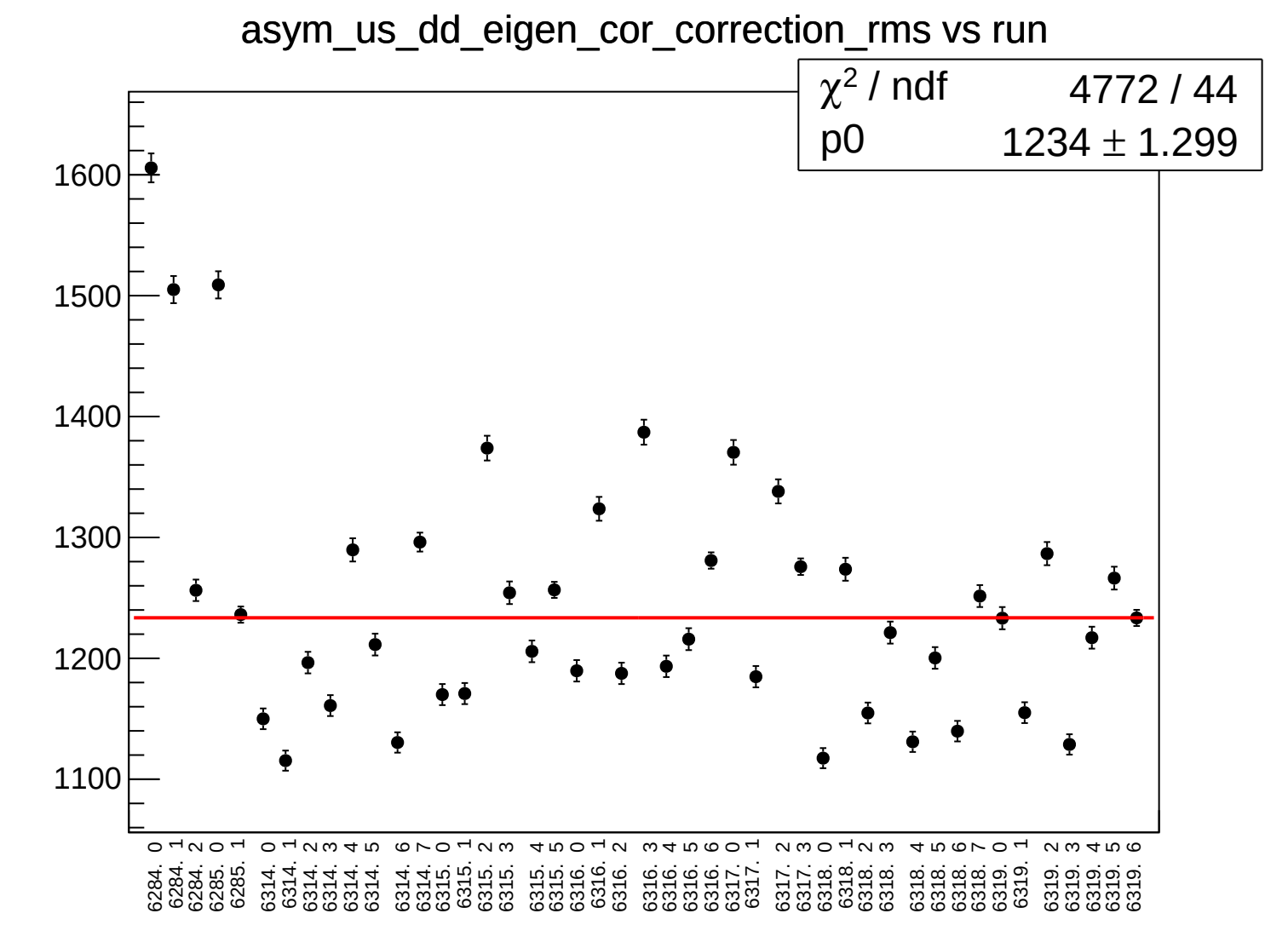
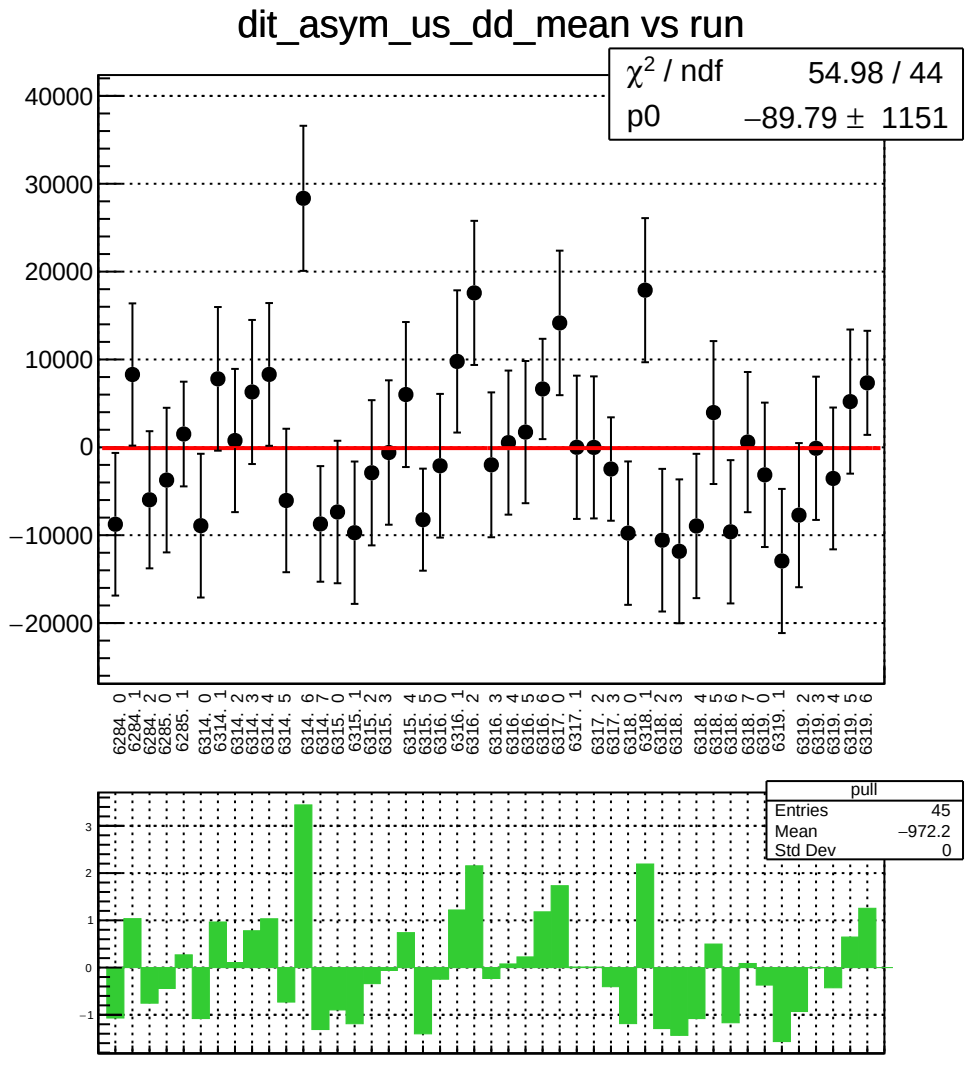
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

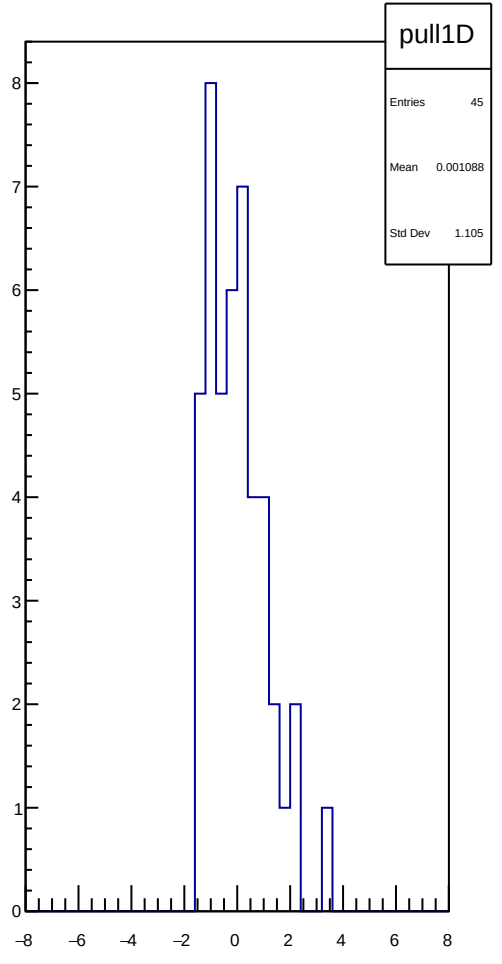

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 36.87 / 44
p0 774.1 ± 0.8128
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

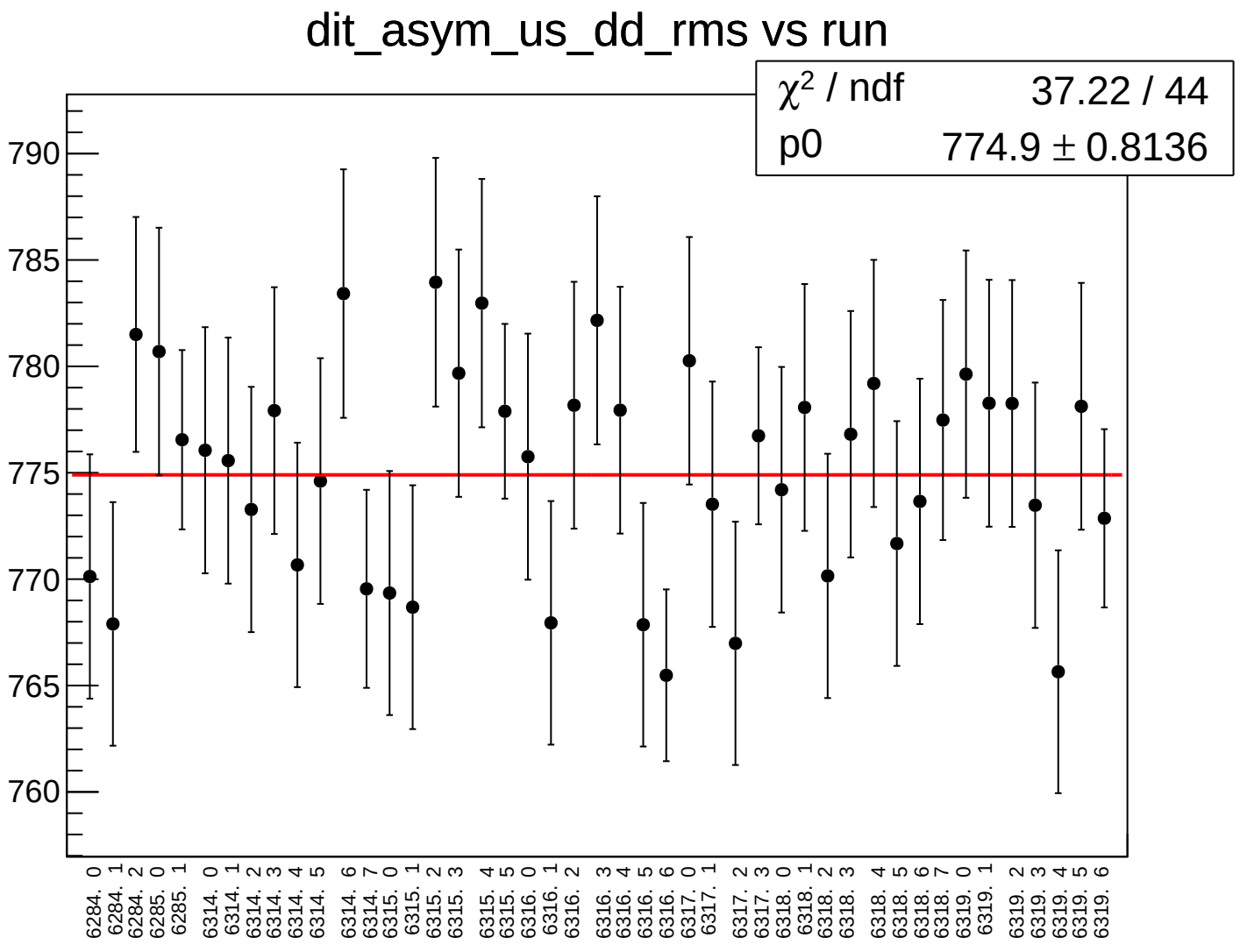

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.98 / 44
p0 18.01 ± 1836
pull
Entries 45
Mean 462.3
Std Dev 0

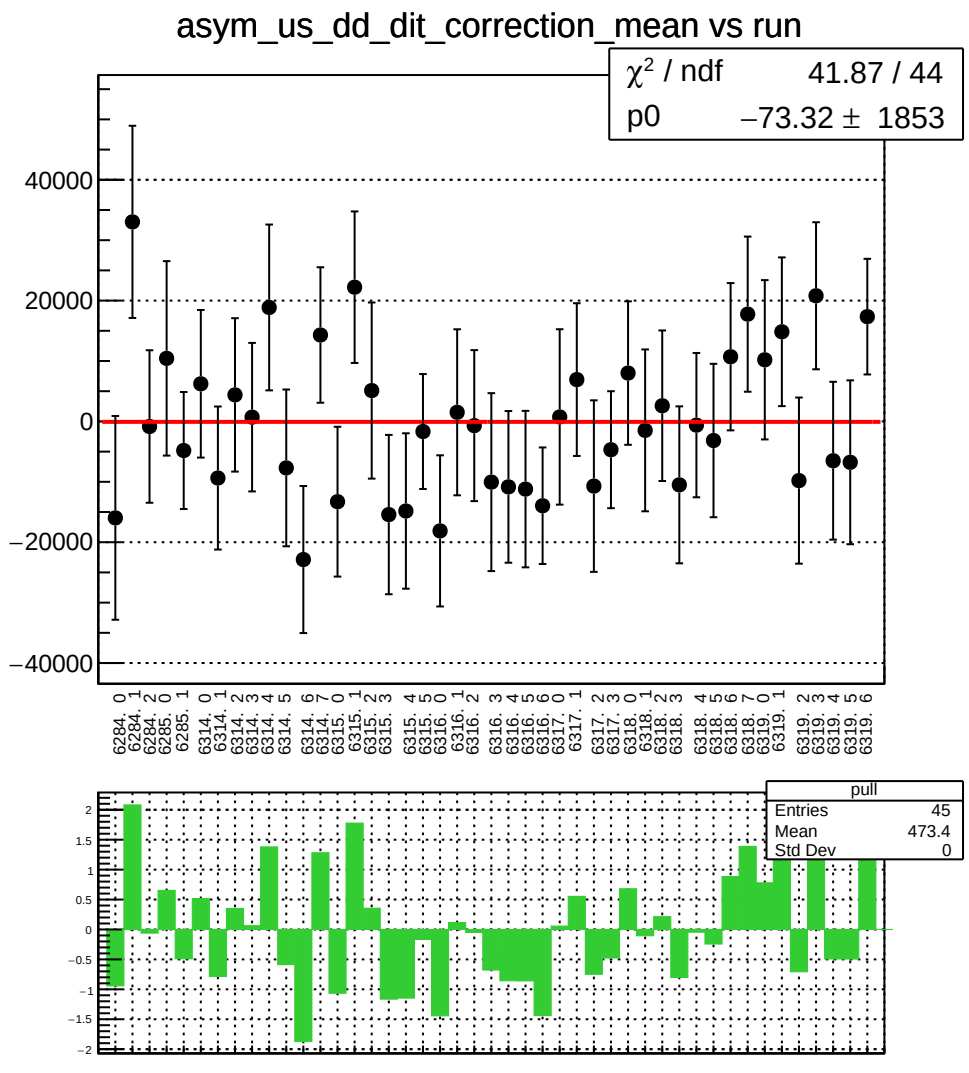

pull1D
Entries 45
Mean 0.003476
Std Dev 0.9659

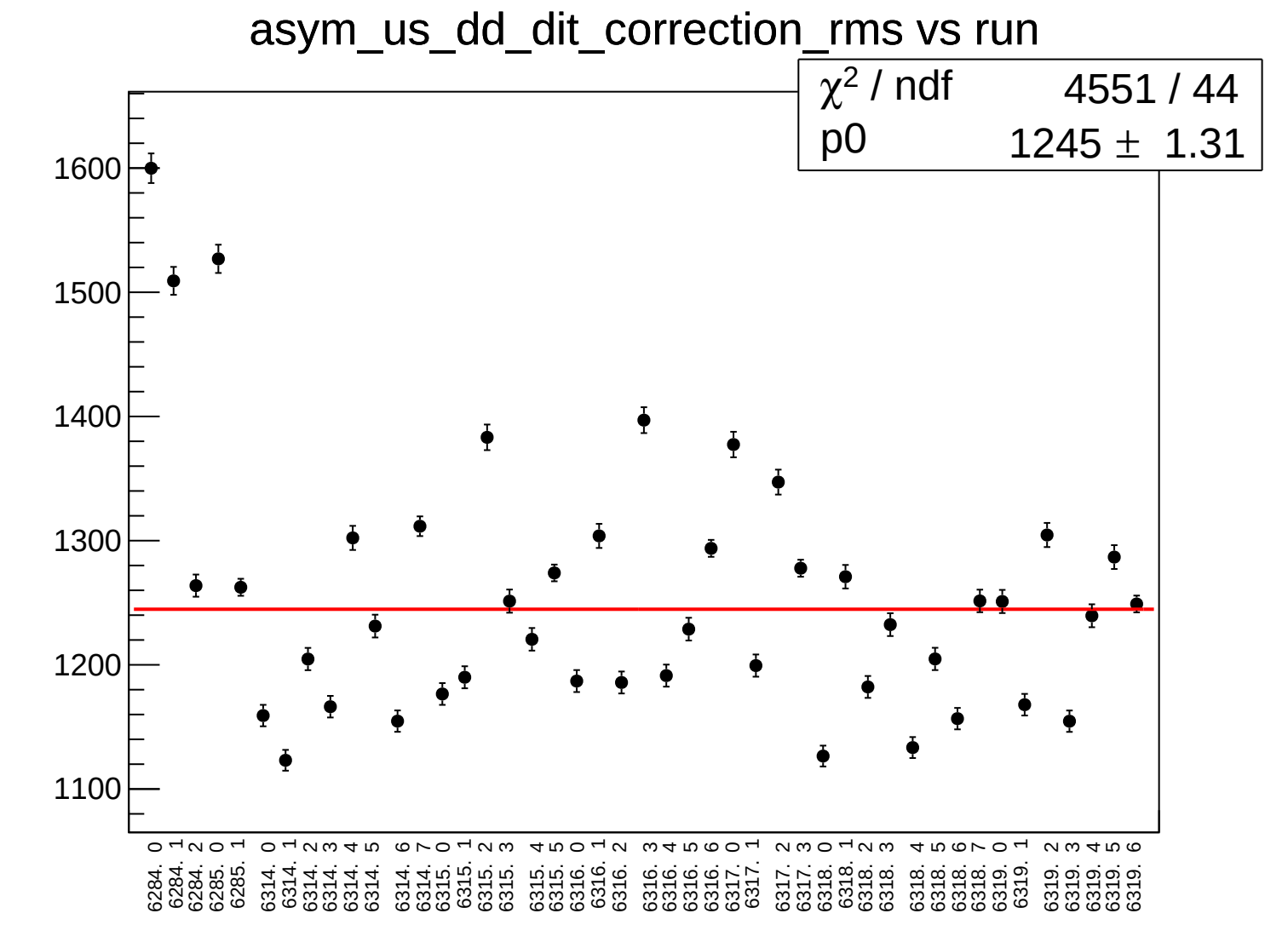

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4772 / 44
p0 1234 ± 1.299
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

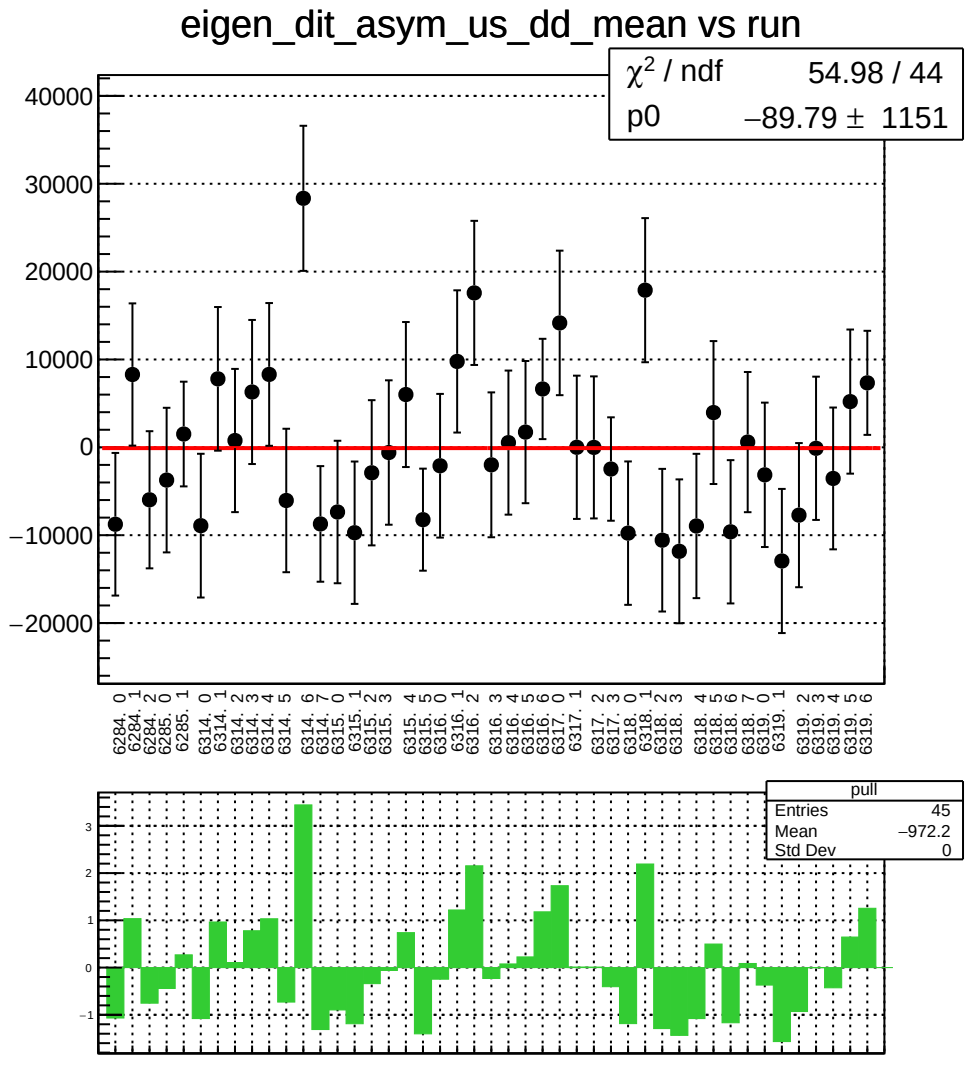

dit_asym_us_dd_mean vs run
χ² / ndf 54.98 / 44
p0 −89.79 ± 1151
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −972.2
Std Dev 0
3
2
1
0
−1

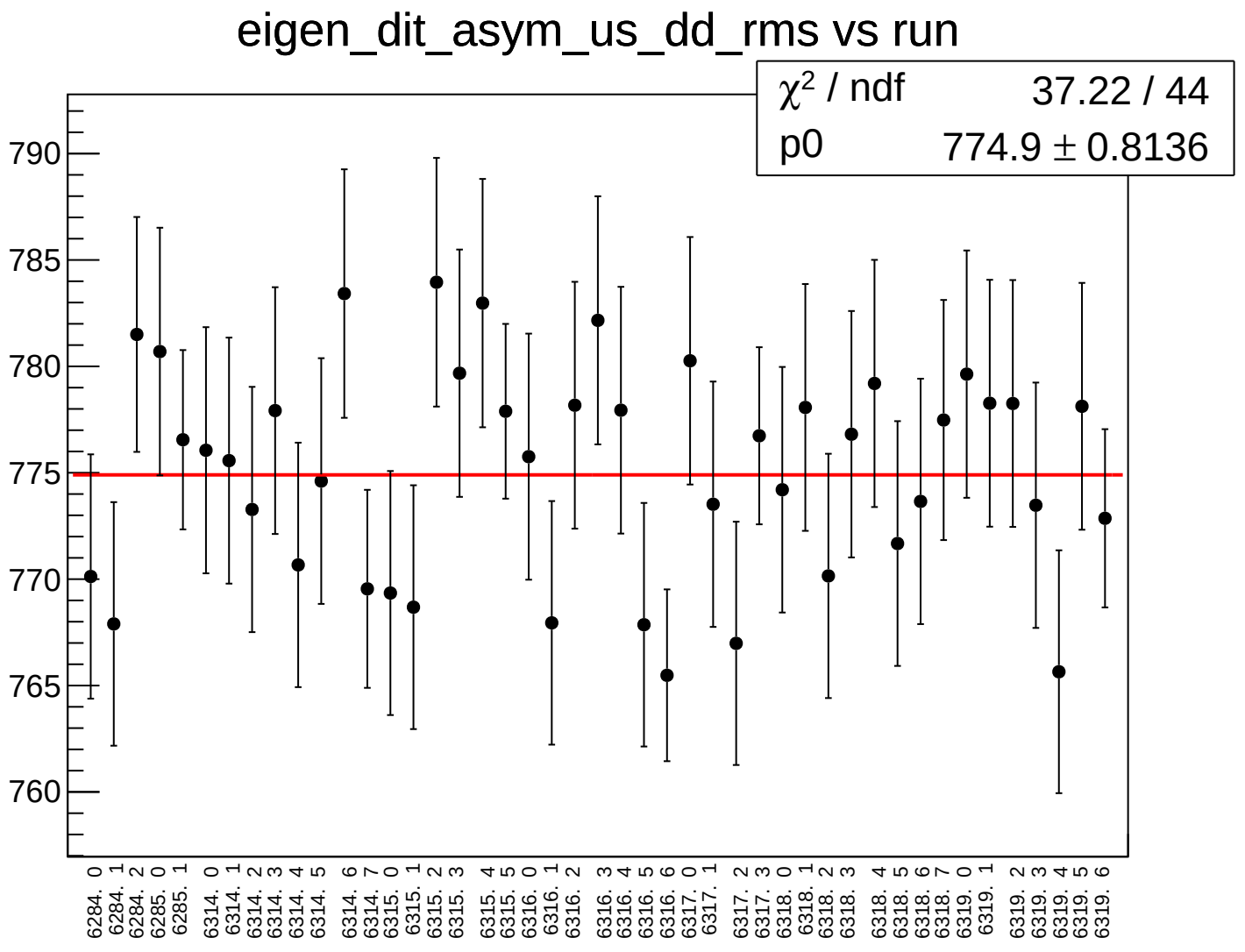

pull1D
Entries 45
Mean 0.001088
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

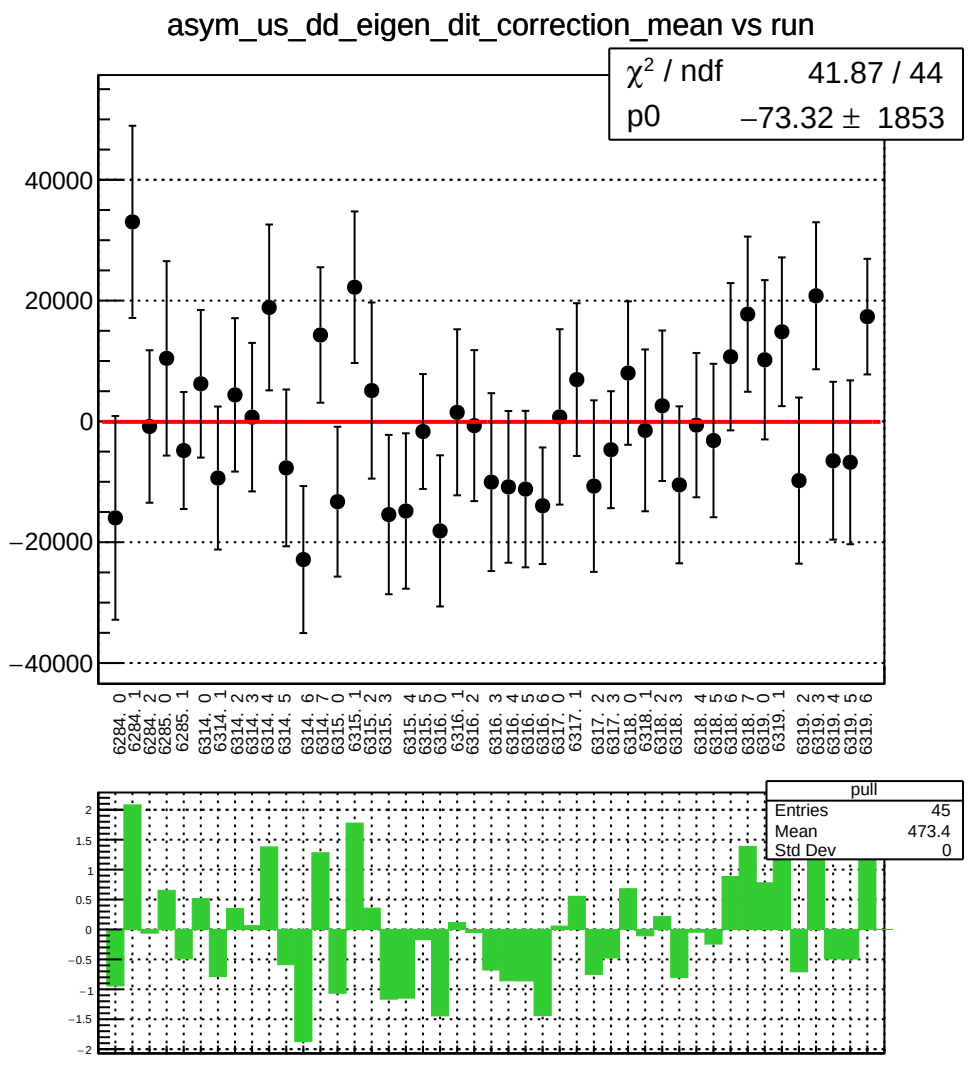

dit_asym_us_dd_rms vs run
χ² / ndf 37.22 / 44
p0 774.9 ± 0.8136
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

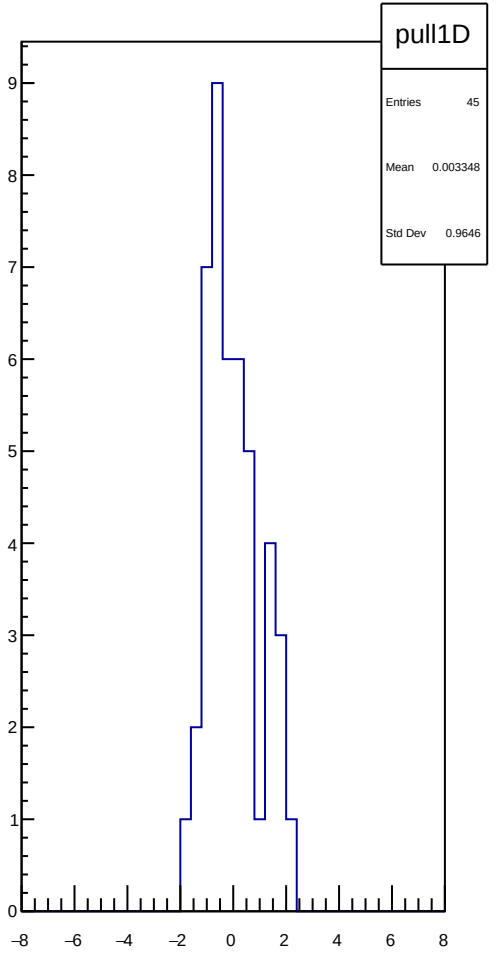

asym_us_dd_dit_correction_mean vs run
χ² / ndf 41.87 / 44
p0 −73.32 ± 1853
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 473.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003348
Std Dev 0.9646
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

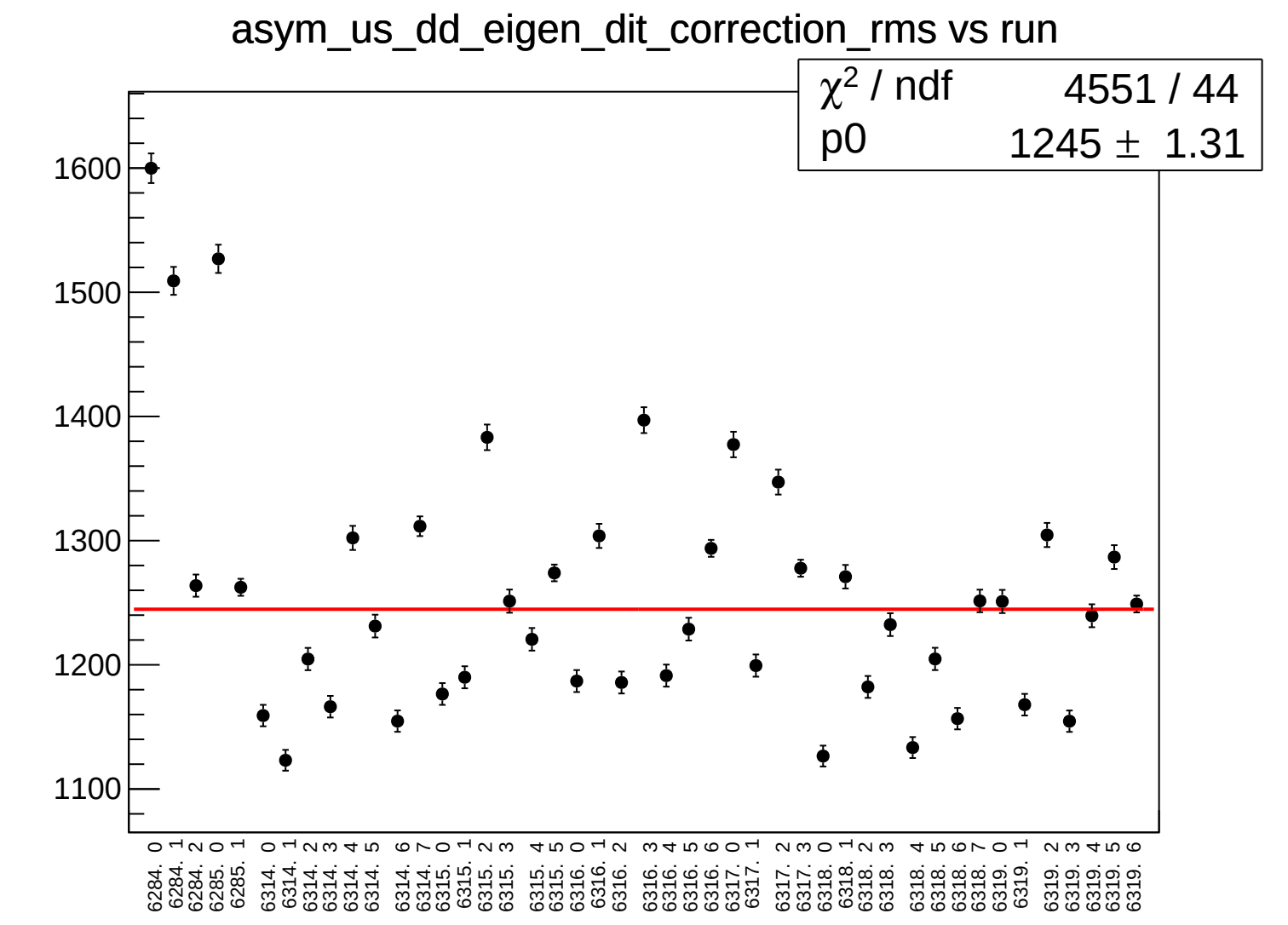

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4551 / 44
p0 1245 ± 1.31
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

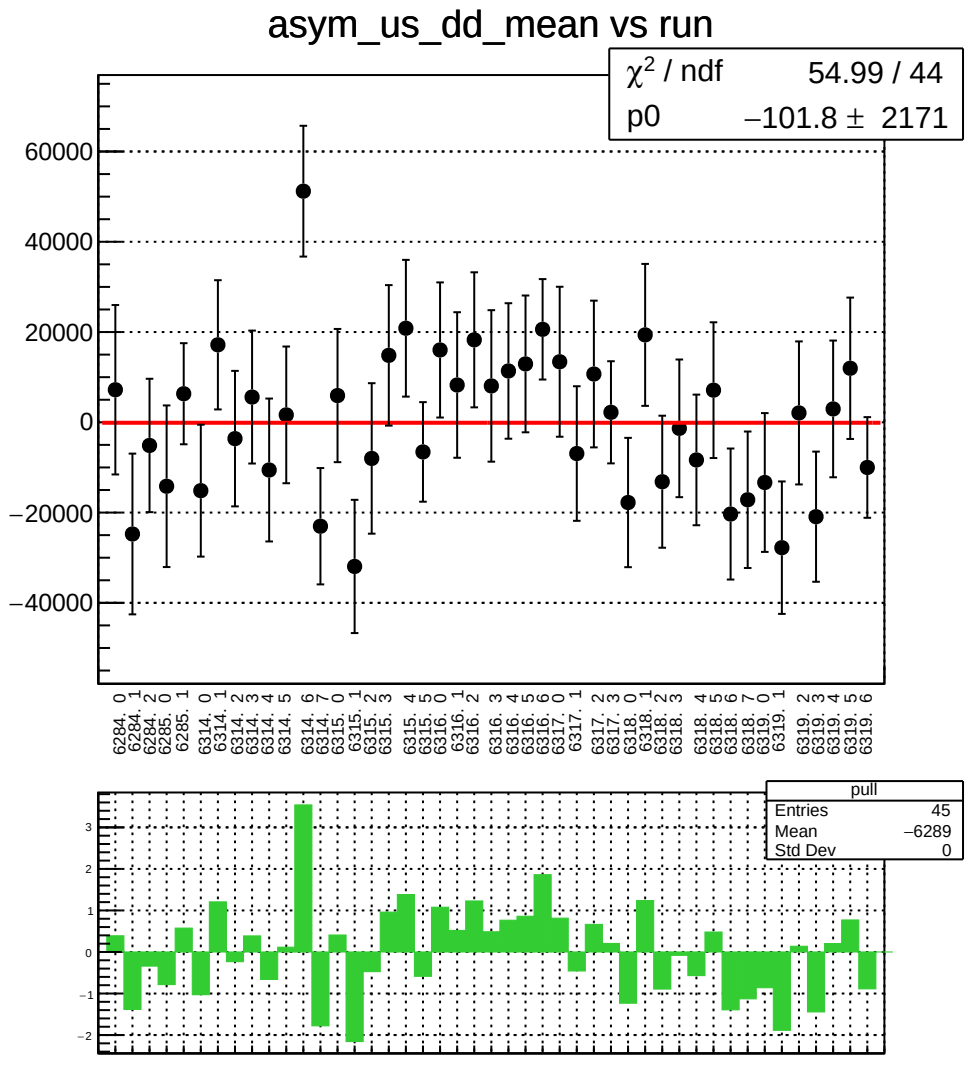

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 54.98 / 44
p0 −89.79 ± 1151
40000
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −972.2
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean 0.001088
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

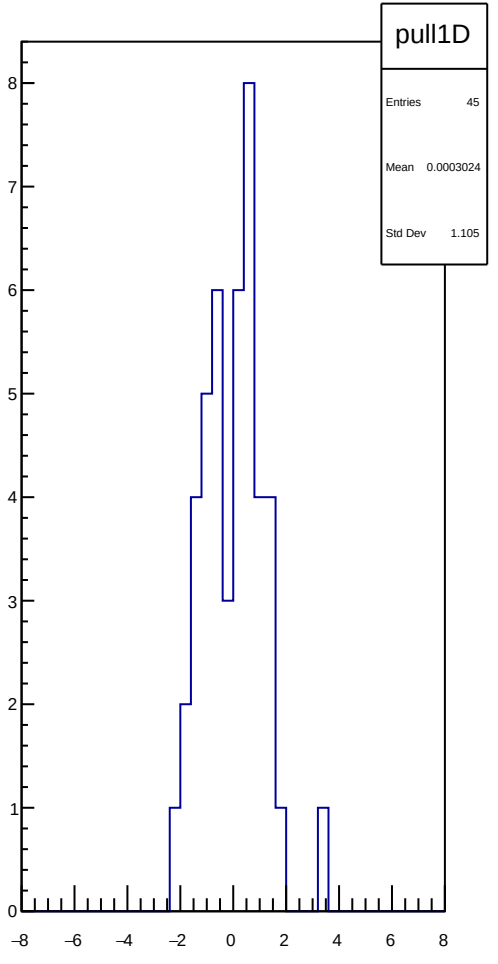

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 37.22 / 44
p0 774.9 ± 0.8136
790
785
780
775
770
765
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

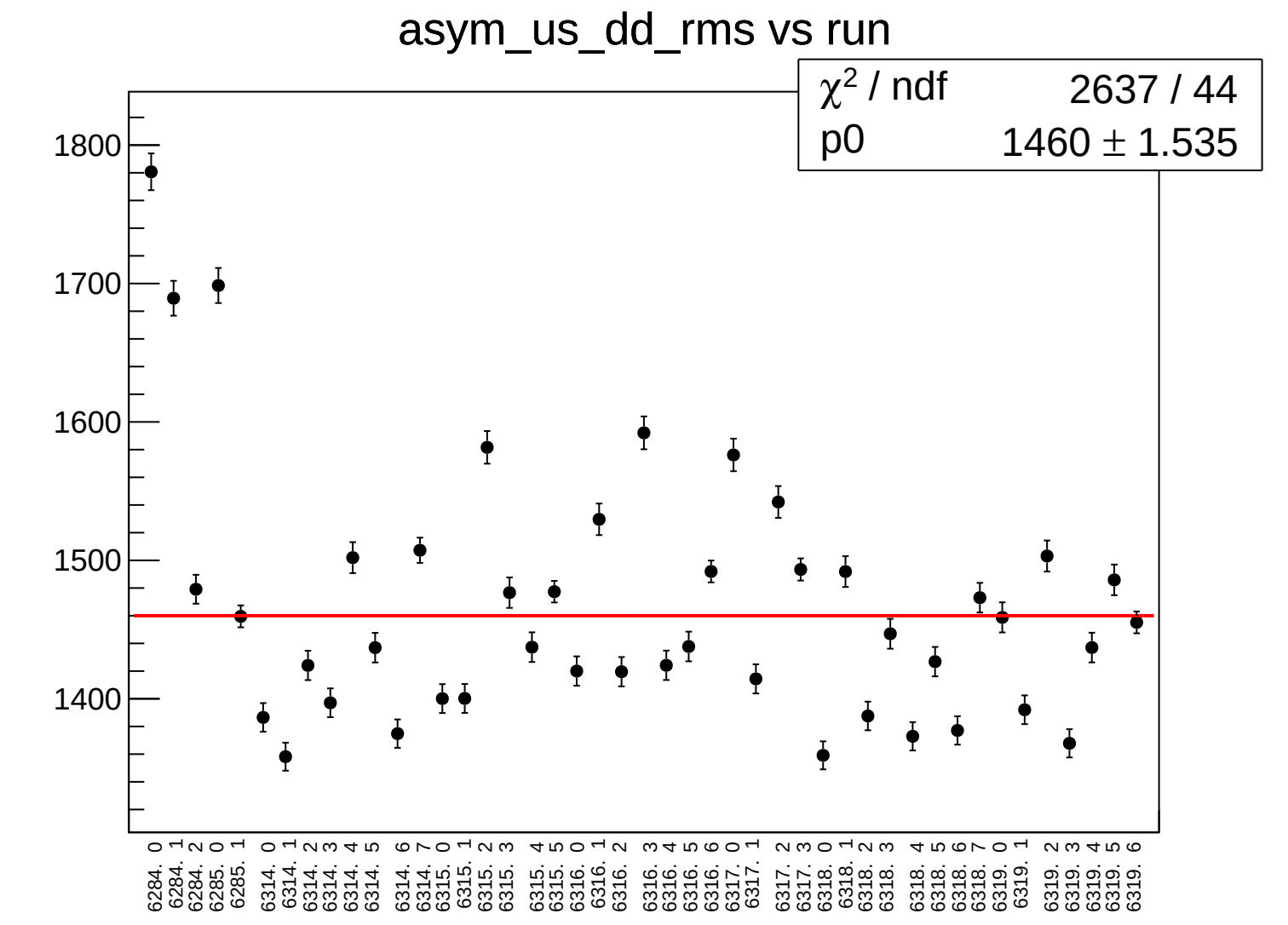

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.87 / 44
p0 −73.32 ± 1853
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 473.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

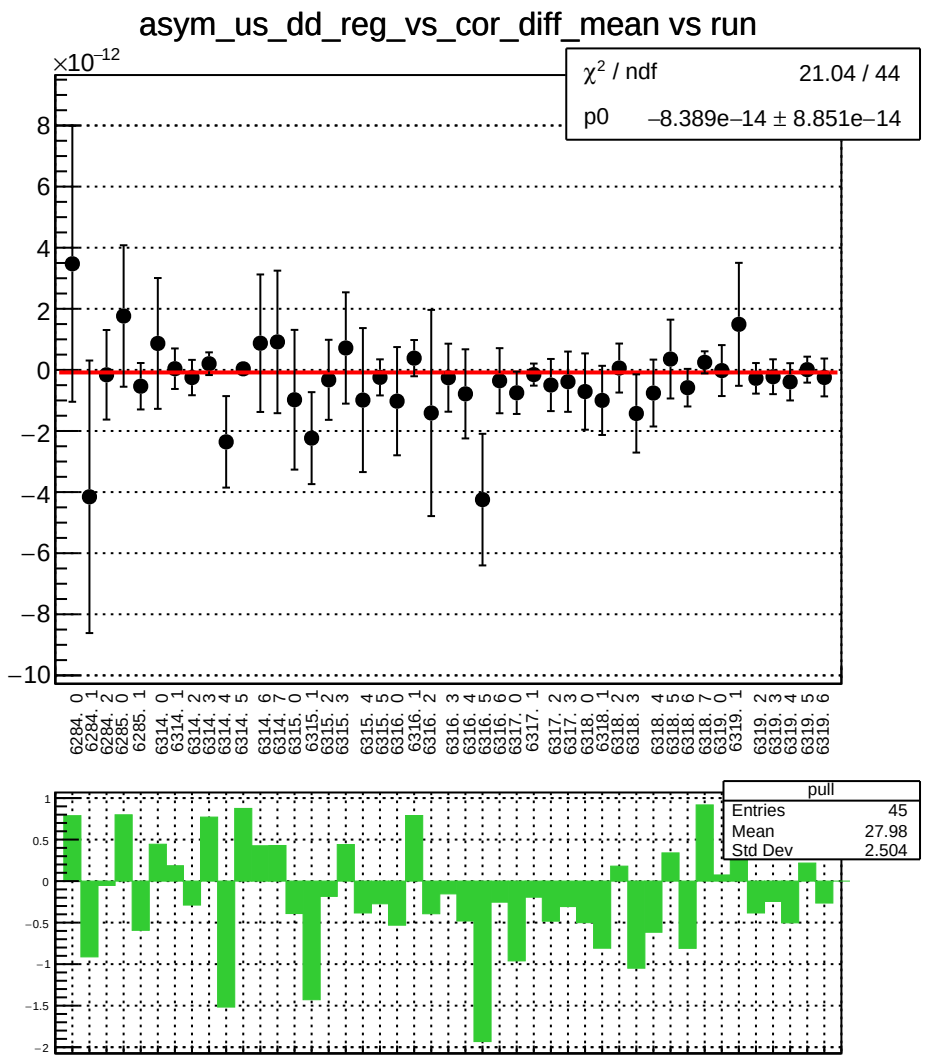

pull1D
Entries 45
Mean 0.003348
Std Dev 0.9646
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

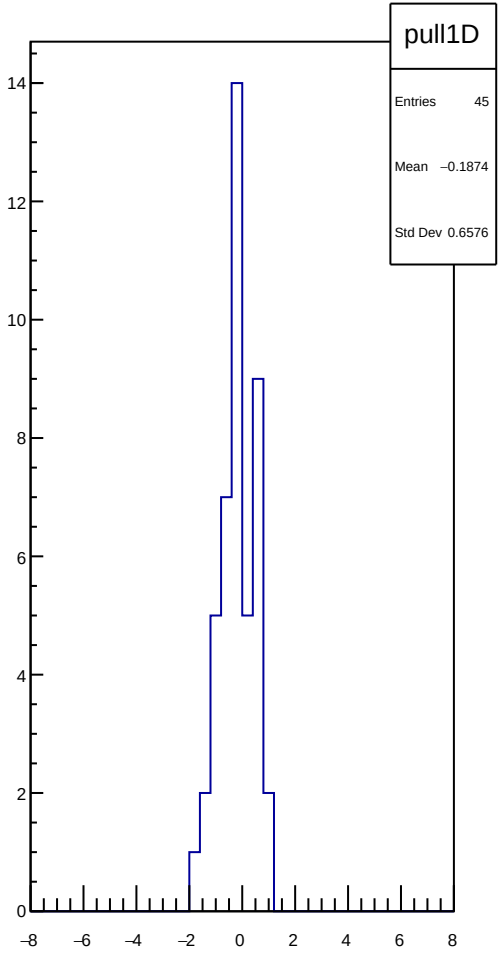

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4551 / 44
p0 1245 ± 1.31
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

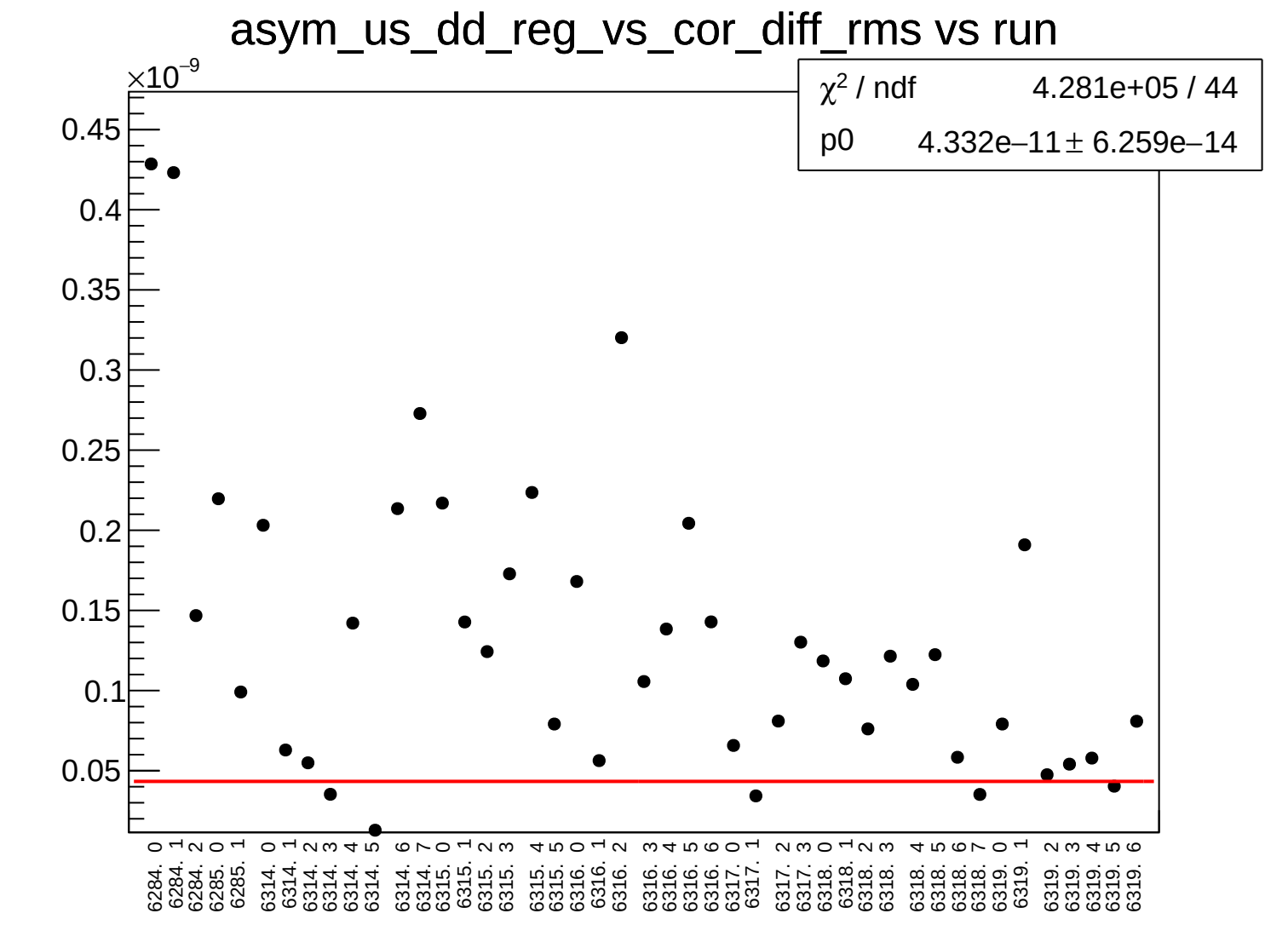

asym_us_dd_mean vs run
χ² / ndf 54.99 / 44
p0 −101.8 ± 2171
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6289
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0003024
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 2637 / 44
p0 1460 ± 1.535
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.04 / 44
p0 −8.389e−14 ± 8.851e−14
pull
Entries 45
Mean 27.98
Std Dev 2.504


pull1D
Entries 45
Mean −0.1874
Std Dev 0.6576


asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.281e+05 / 44
p0 4.332e−11 ± 6.259e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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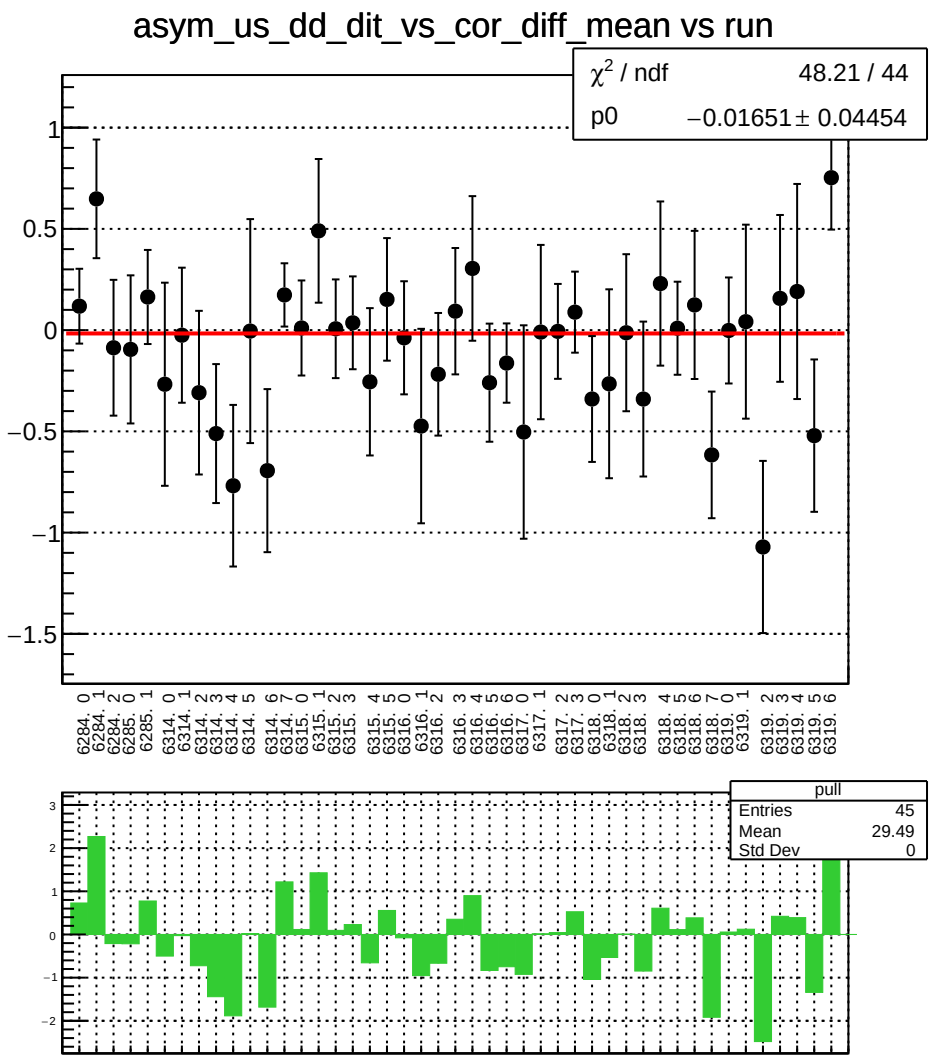
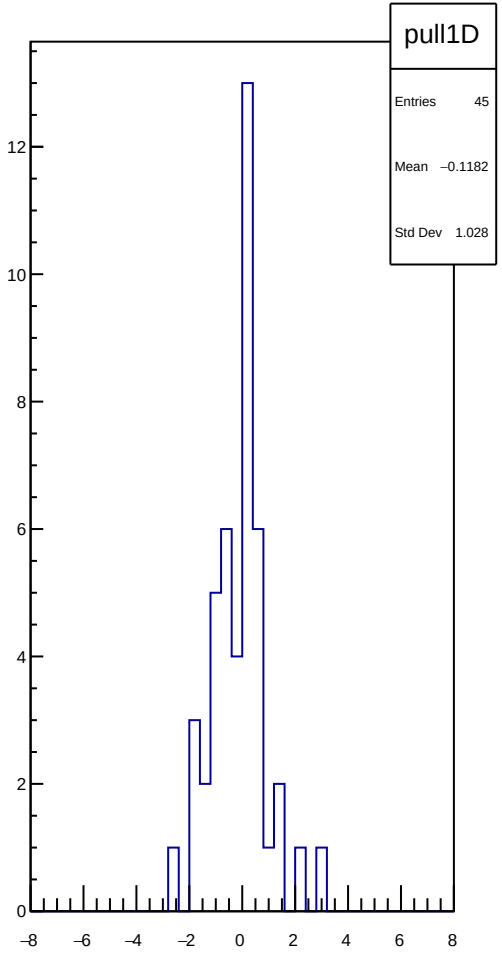
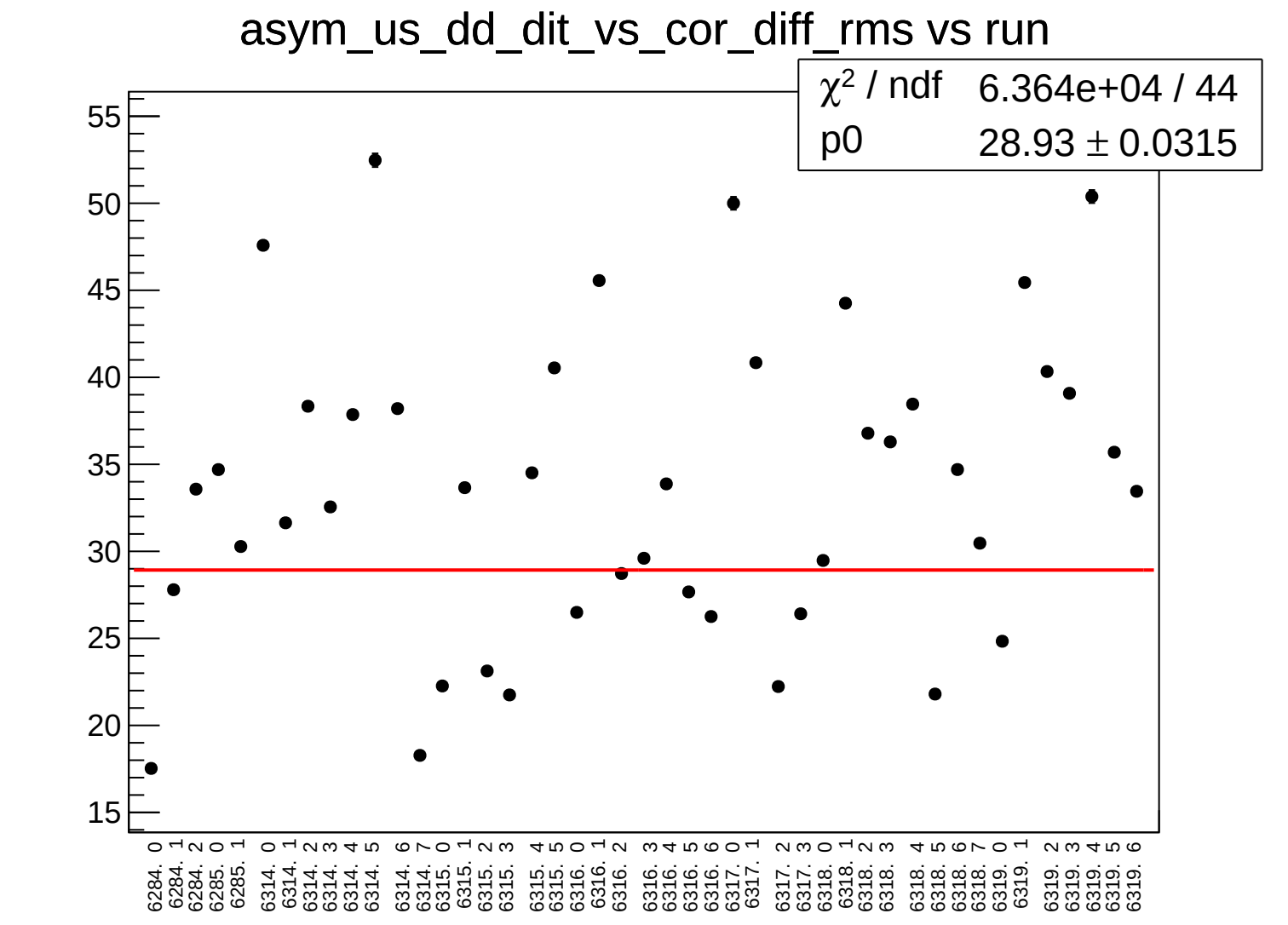
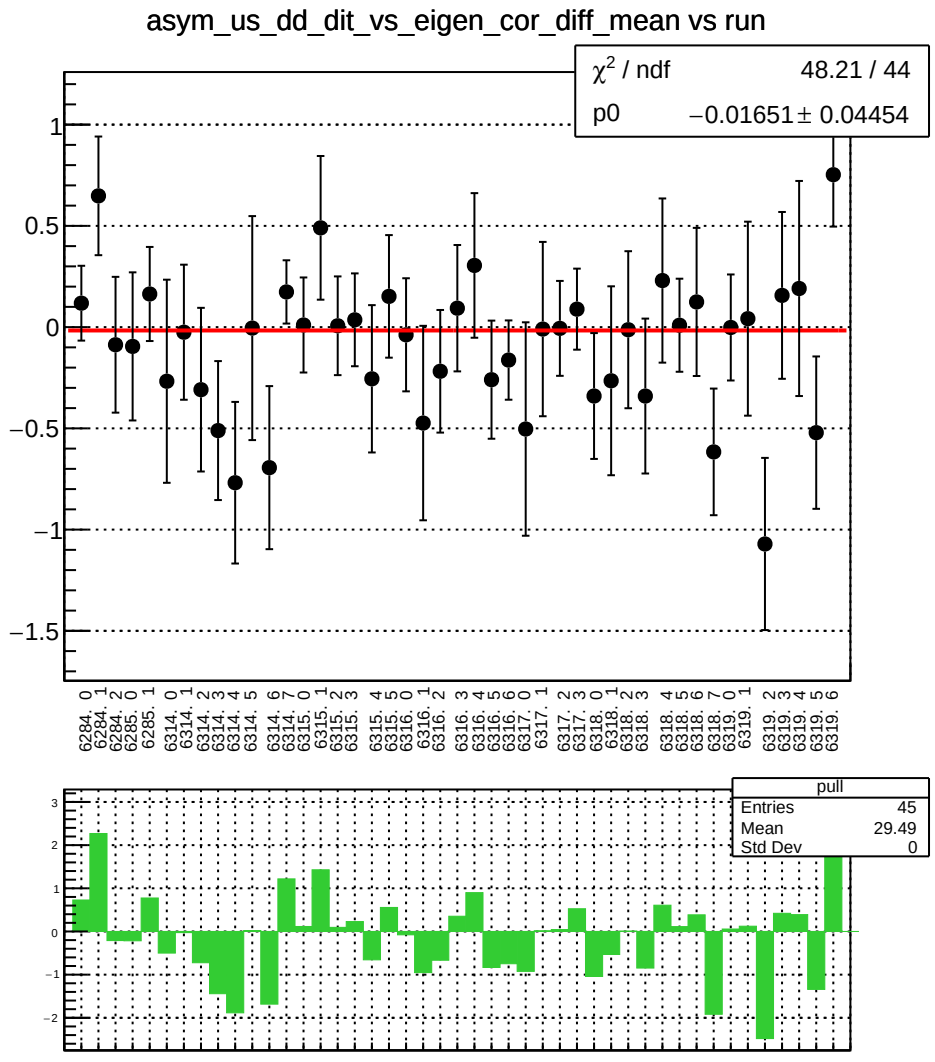
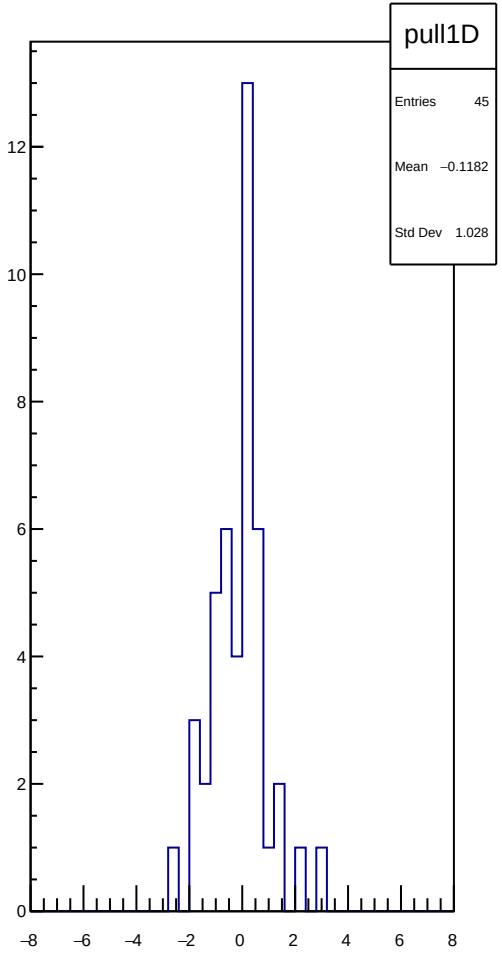
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

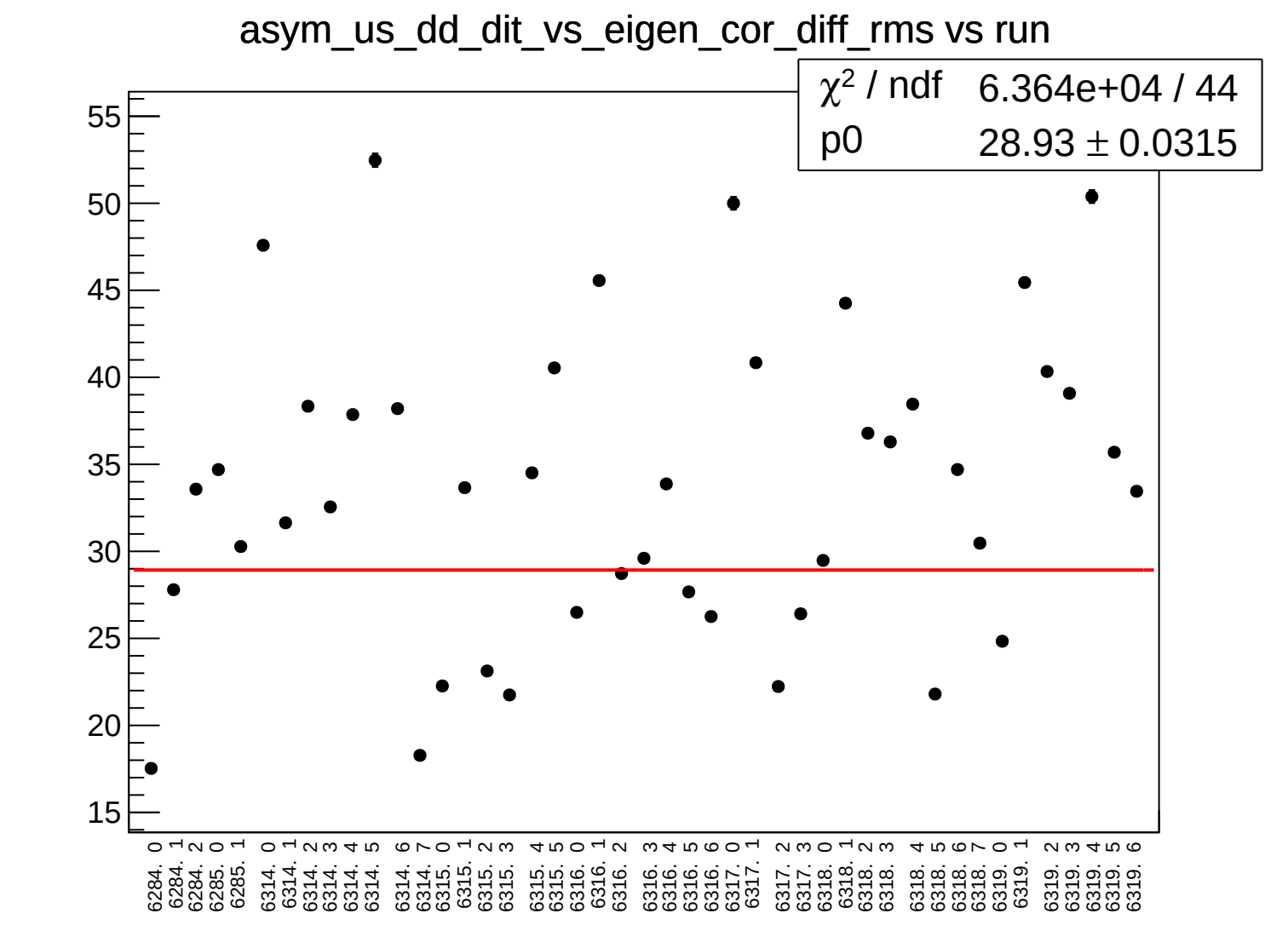

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.21 / 44
p0 −0.01651 ± 0.04454
pull
Entries 45
Mean 29.49
Std Dev 0

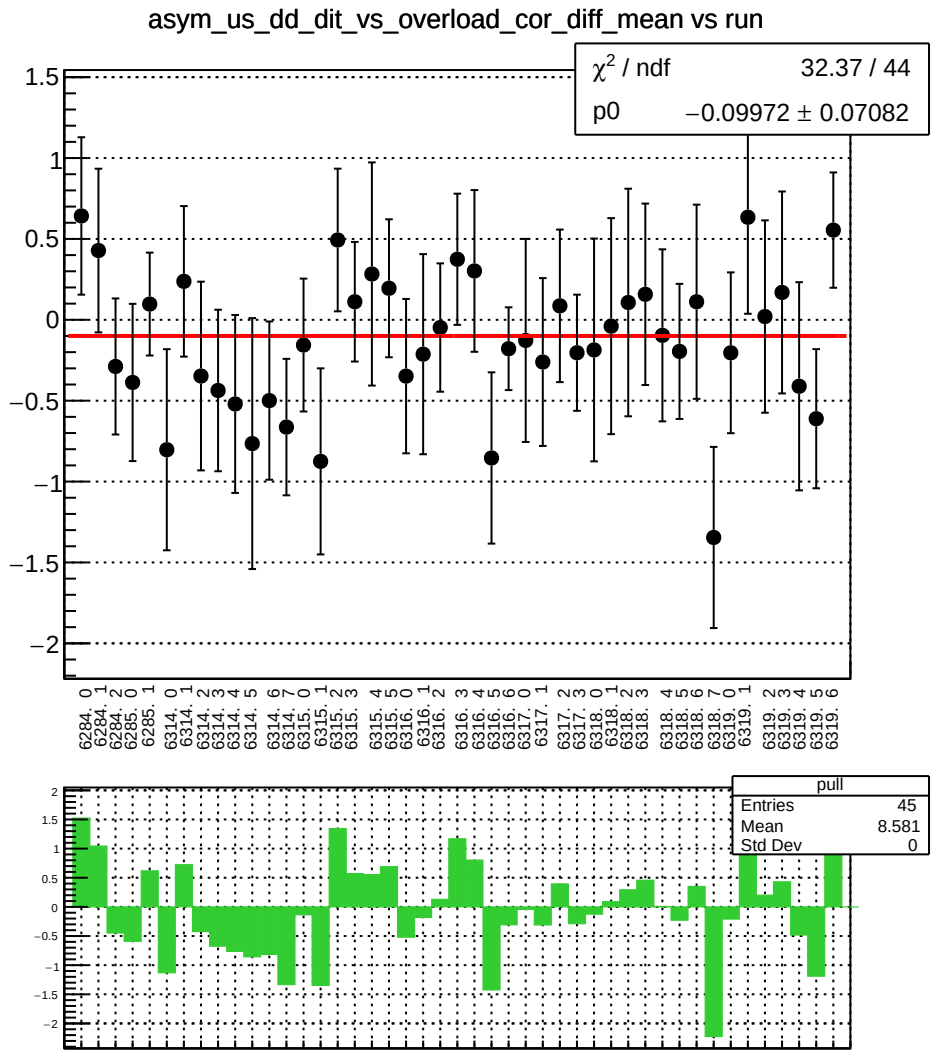

pull1D
Entries 45
Mean −0.1182
Std Dev 1.028

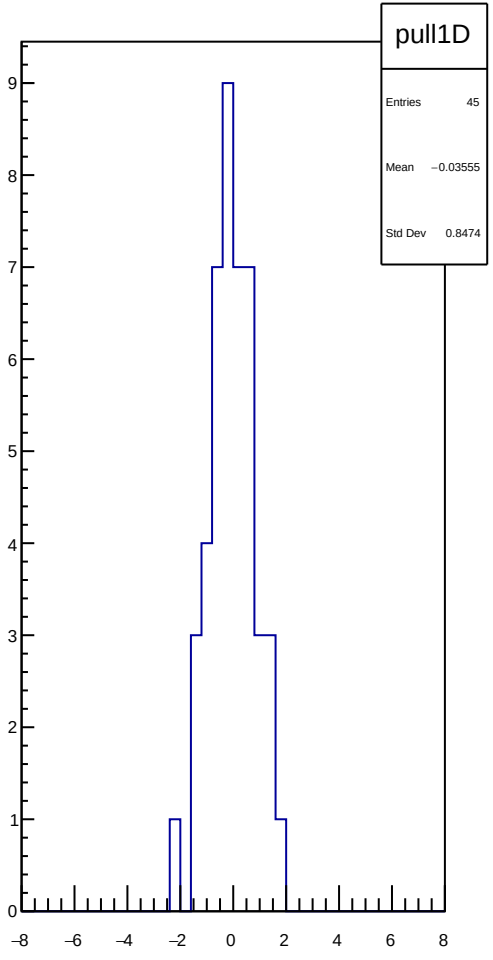

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.364e+04 / 44
p0 28.93 ± 0.0315
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

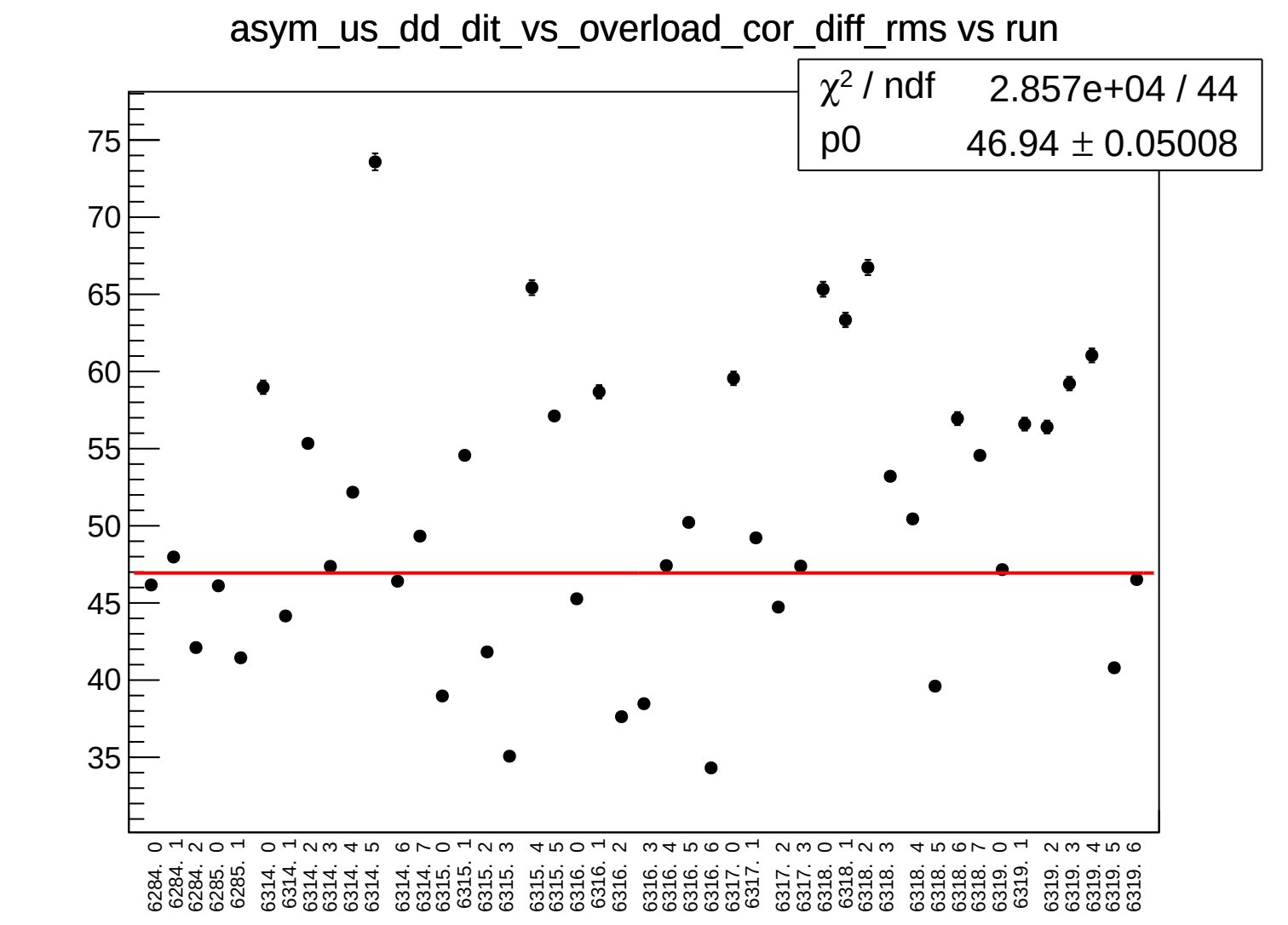

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.21 / 44
p0 −0.01651 ± 0.04454
pull
Entries 45
Mean 29.49
Std Dev 0

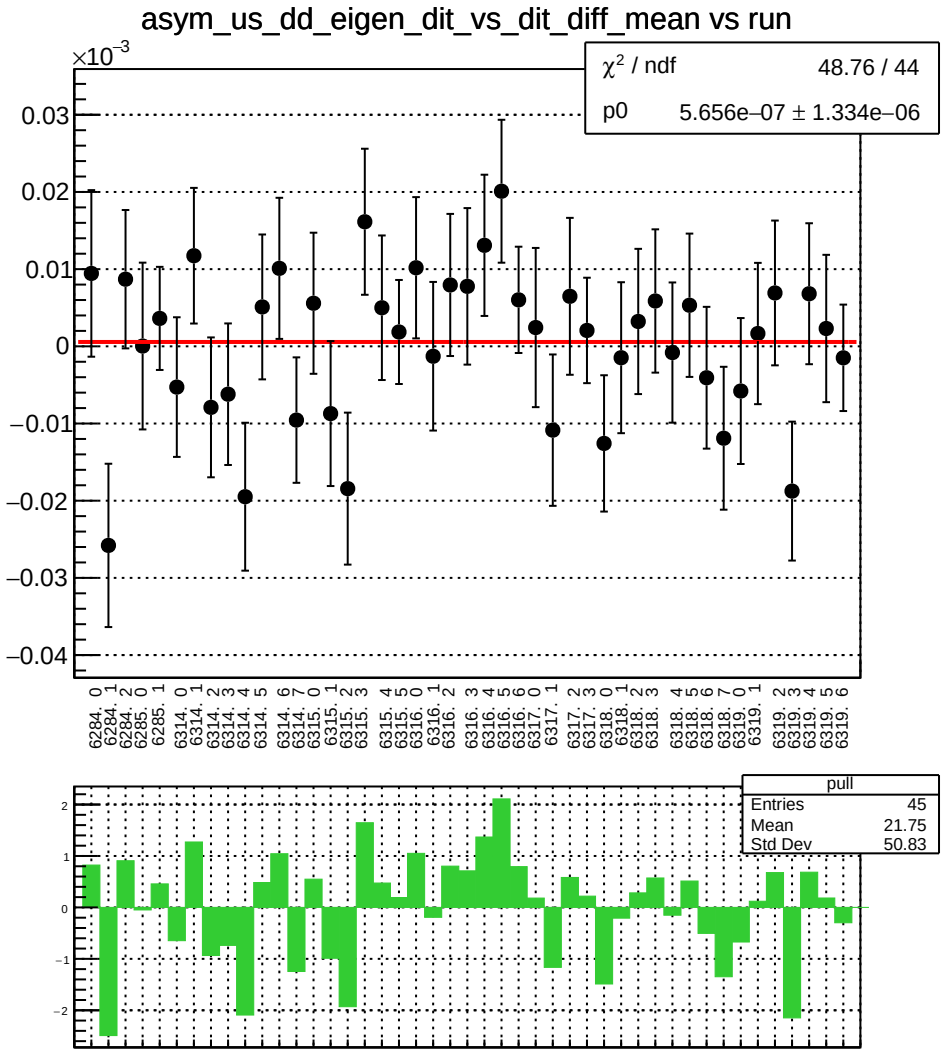

pull1D
Entries 45
Mean −0.1182
Std Dev 1.028

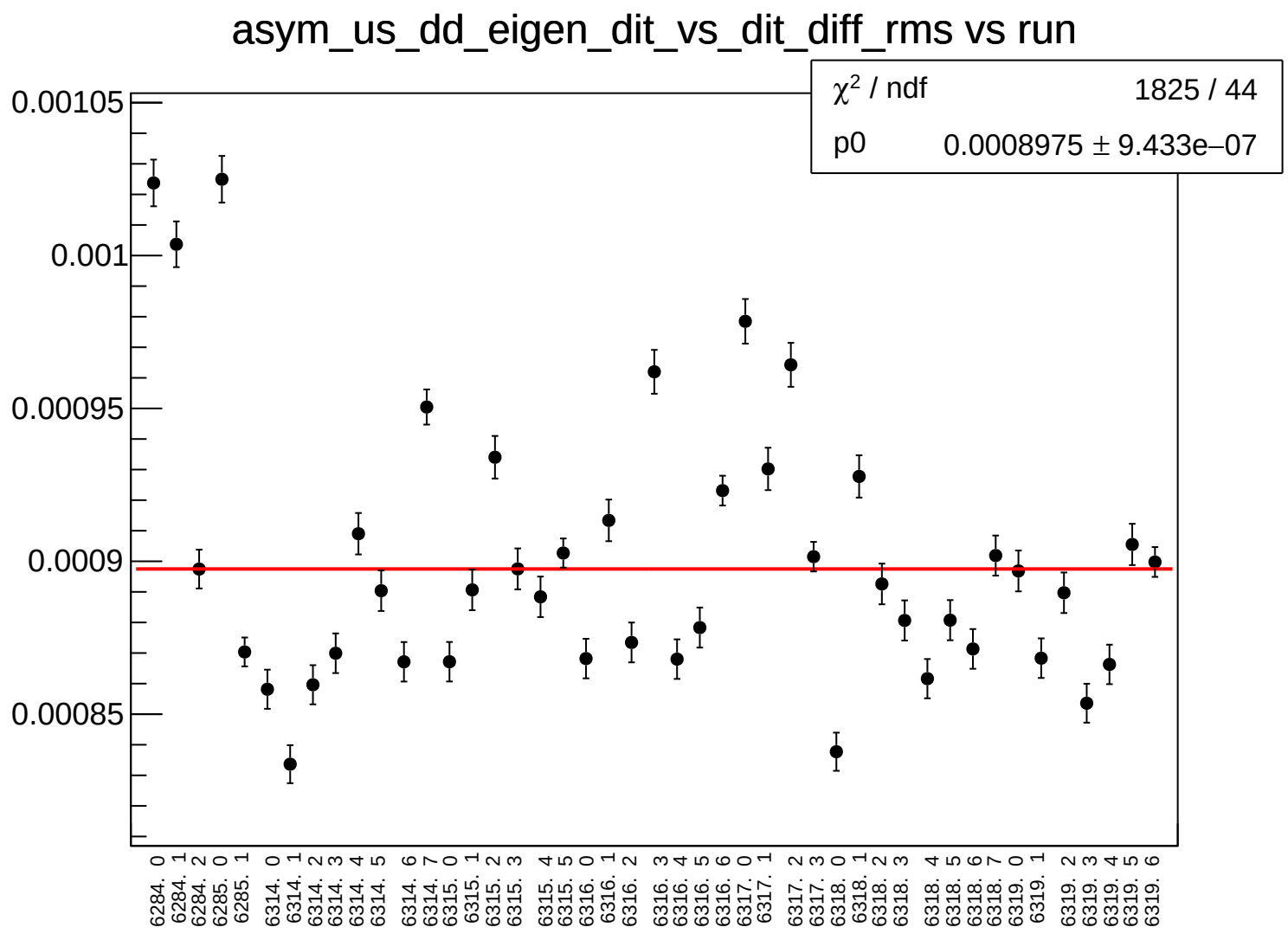

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.364e+04 / 44
p0 28.93 ± 0.0315
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

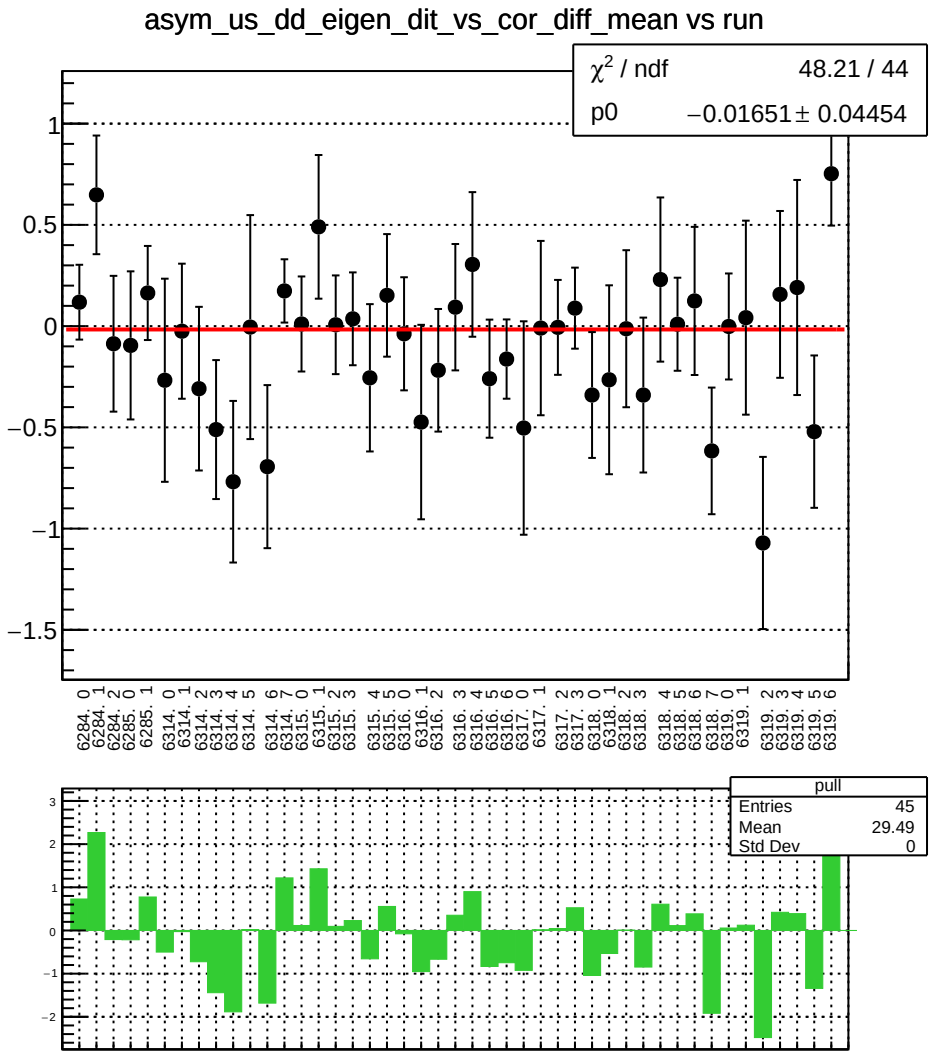

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 32.37 / 44
p0 −0.09972 ± 0.07082
pull
Entries 45
Mean 8.581
Std Dev 0

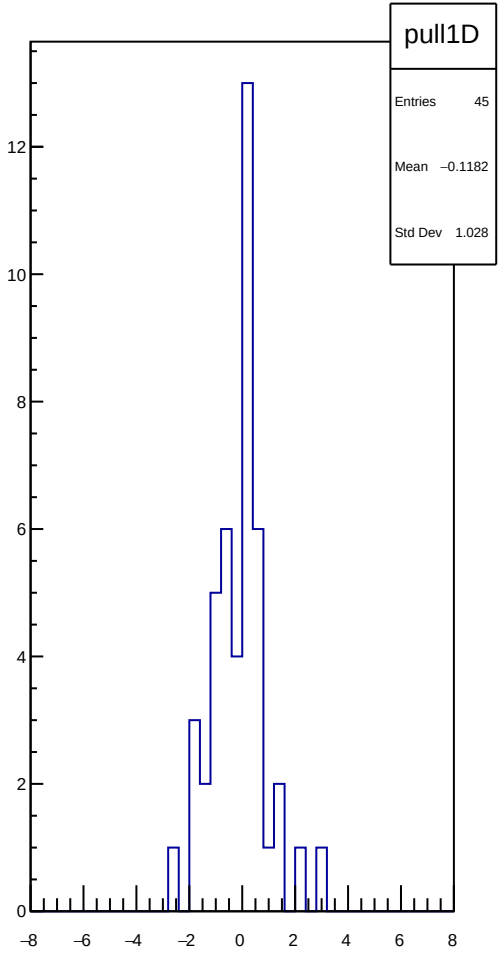

pull1D
Entries 45
Mean −0.03555
Std Dev 0.8474

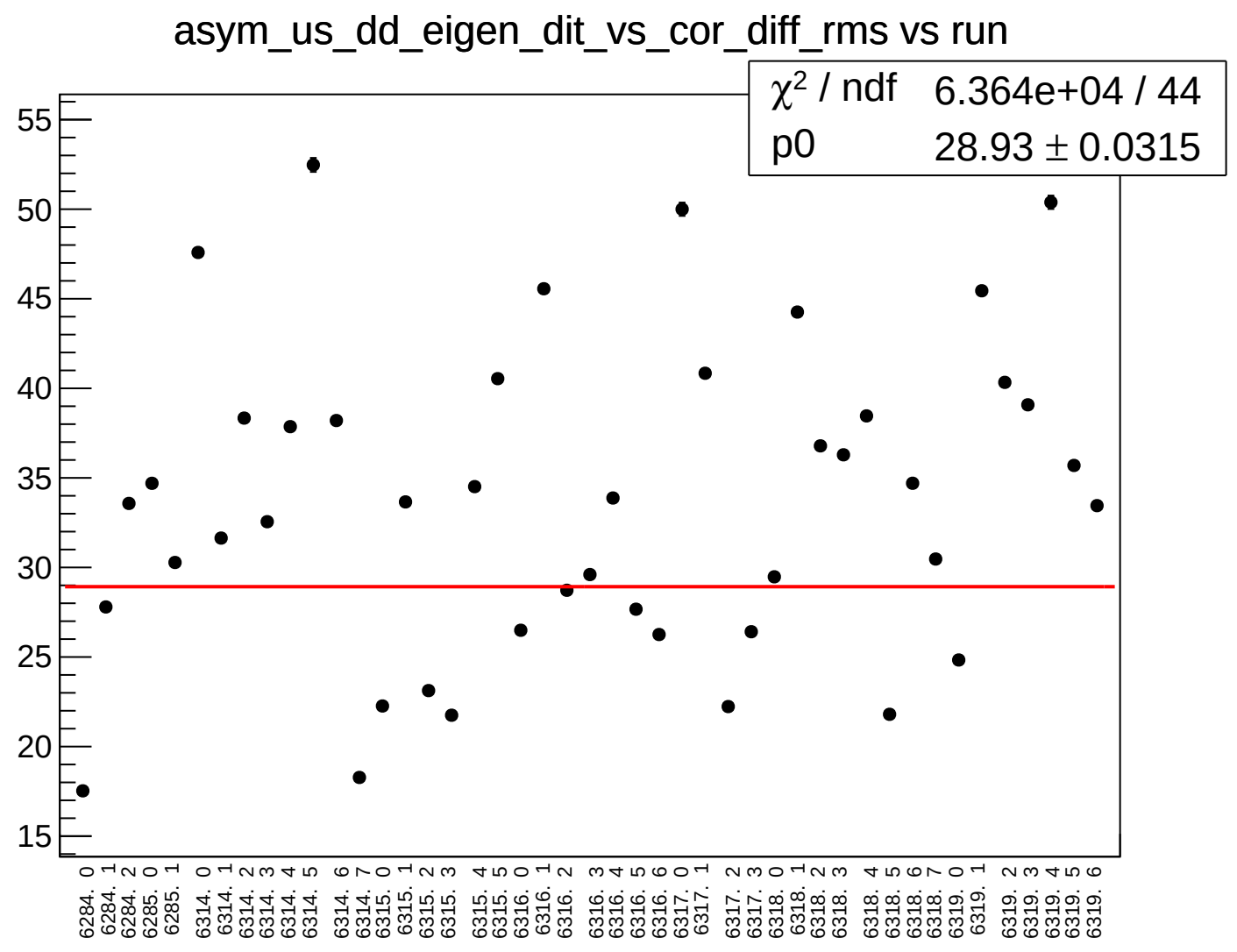

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.857e+04 / 44
p0 46.94 ± 0.05008
75
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

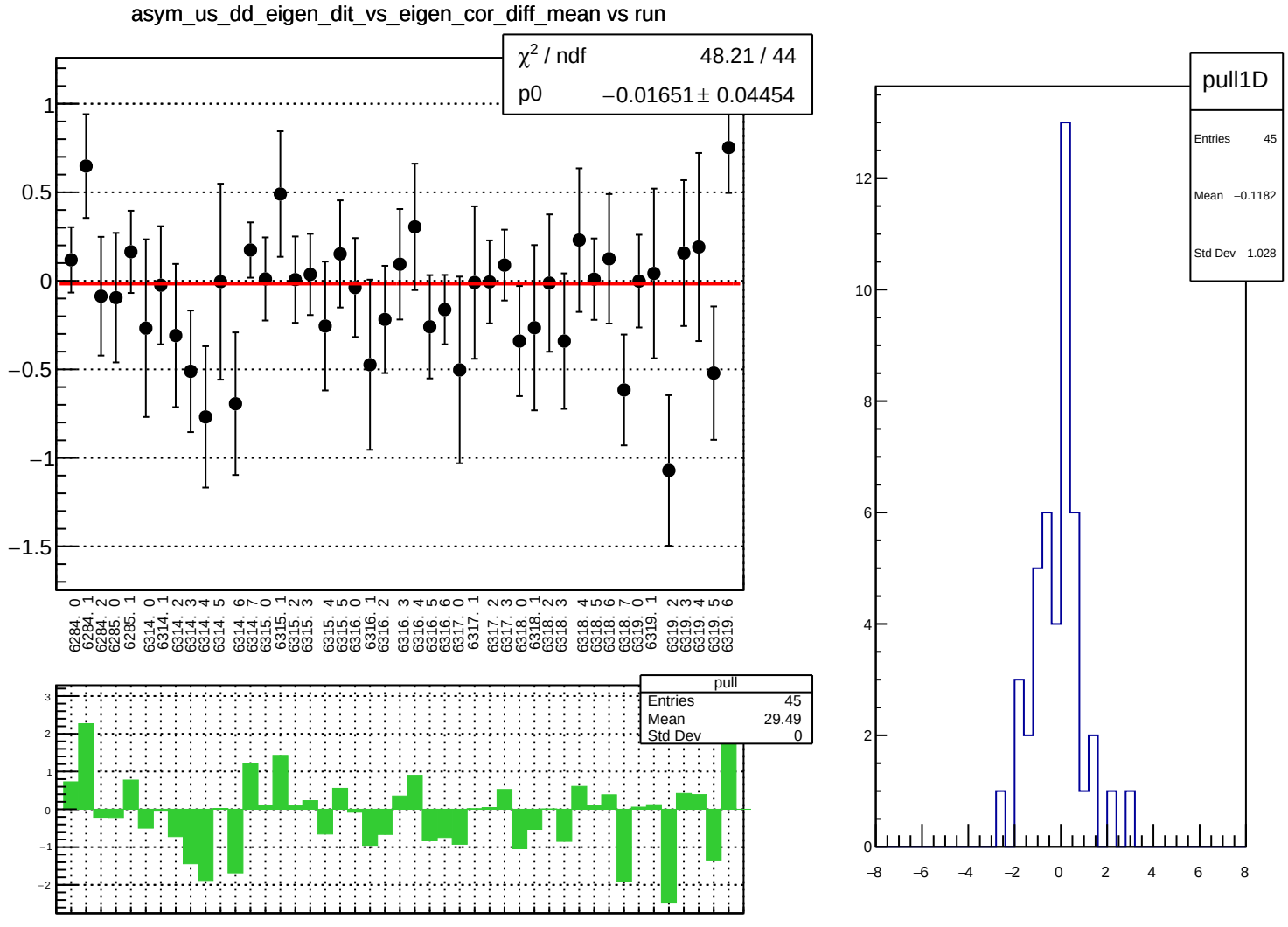

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.76 / 44
p0 5.656e−07 ± 1.334e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 21.75
Std Dev 50.83
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01331
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

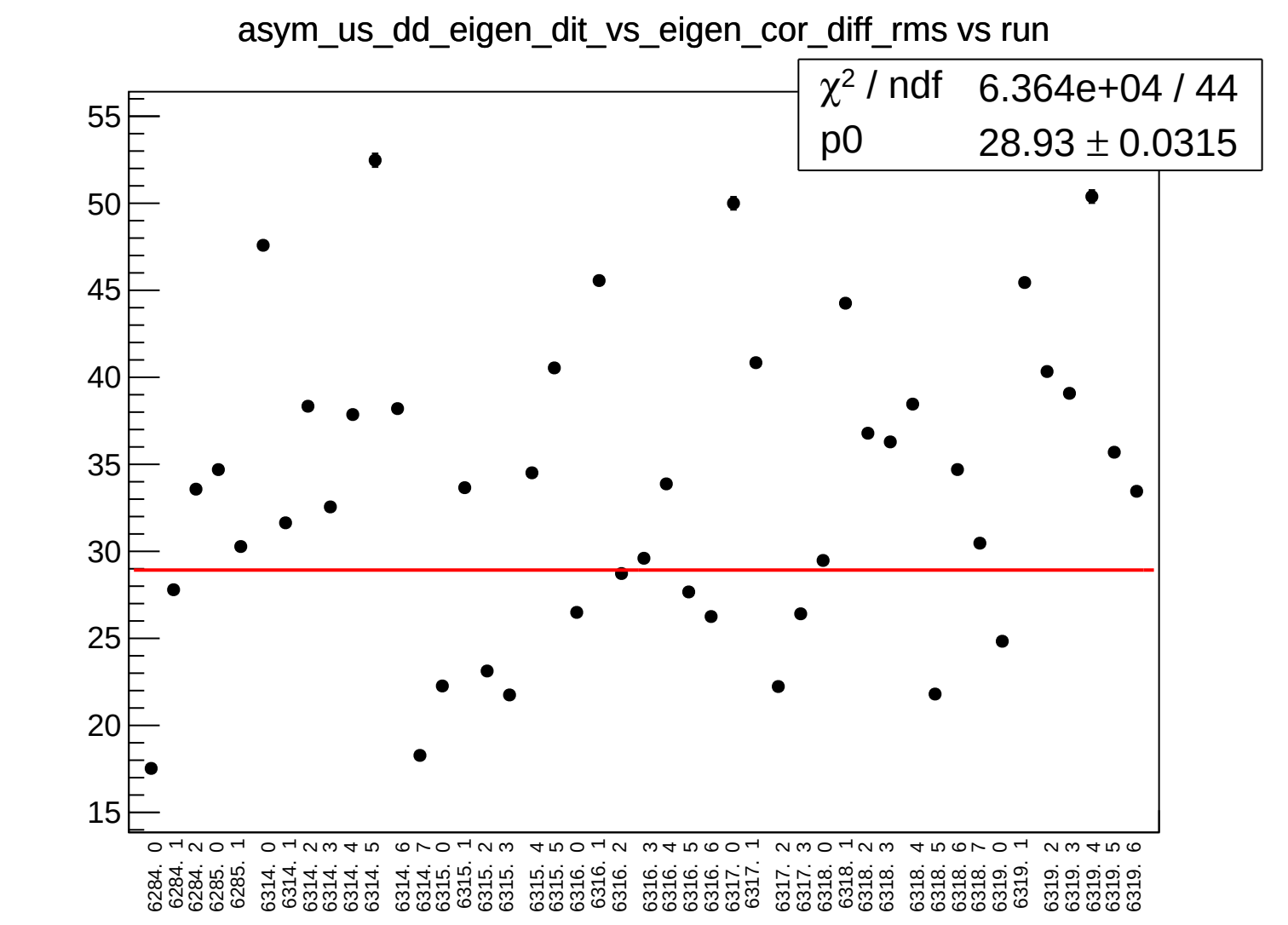

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1825 / 44
p0 0.0008975 ± 9.433e−07
0.00105
0.001
0.00095
0.0009
0.00085
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.21 / 44
p0 −0.01651 ± 0.04454
pull
Entries 45
Mean 29.49
Std Dev 0


pull1D
Entries 45
Mean −0.1182
Std Dev 1.028


asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.364e+04 / 44
p0 28.93 ± 0.0315
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.21 / 44
p0 −0.01651 ± 0.04454
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.49
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1182
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.364e+04 / 44
p0 28.93 ± 0.0315
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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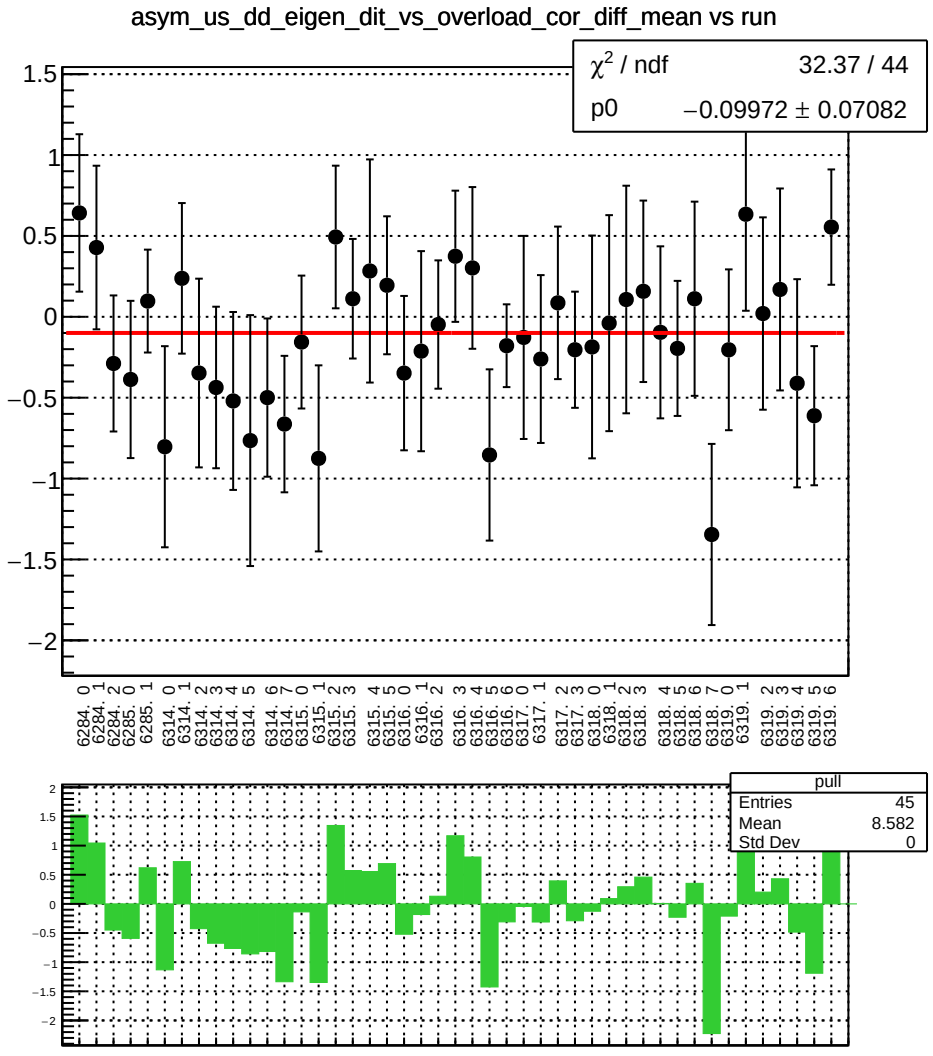
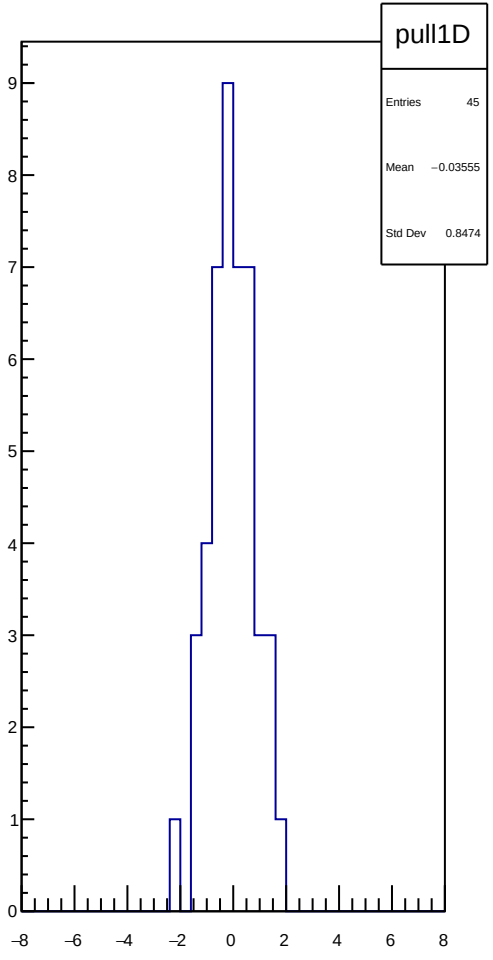
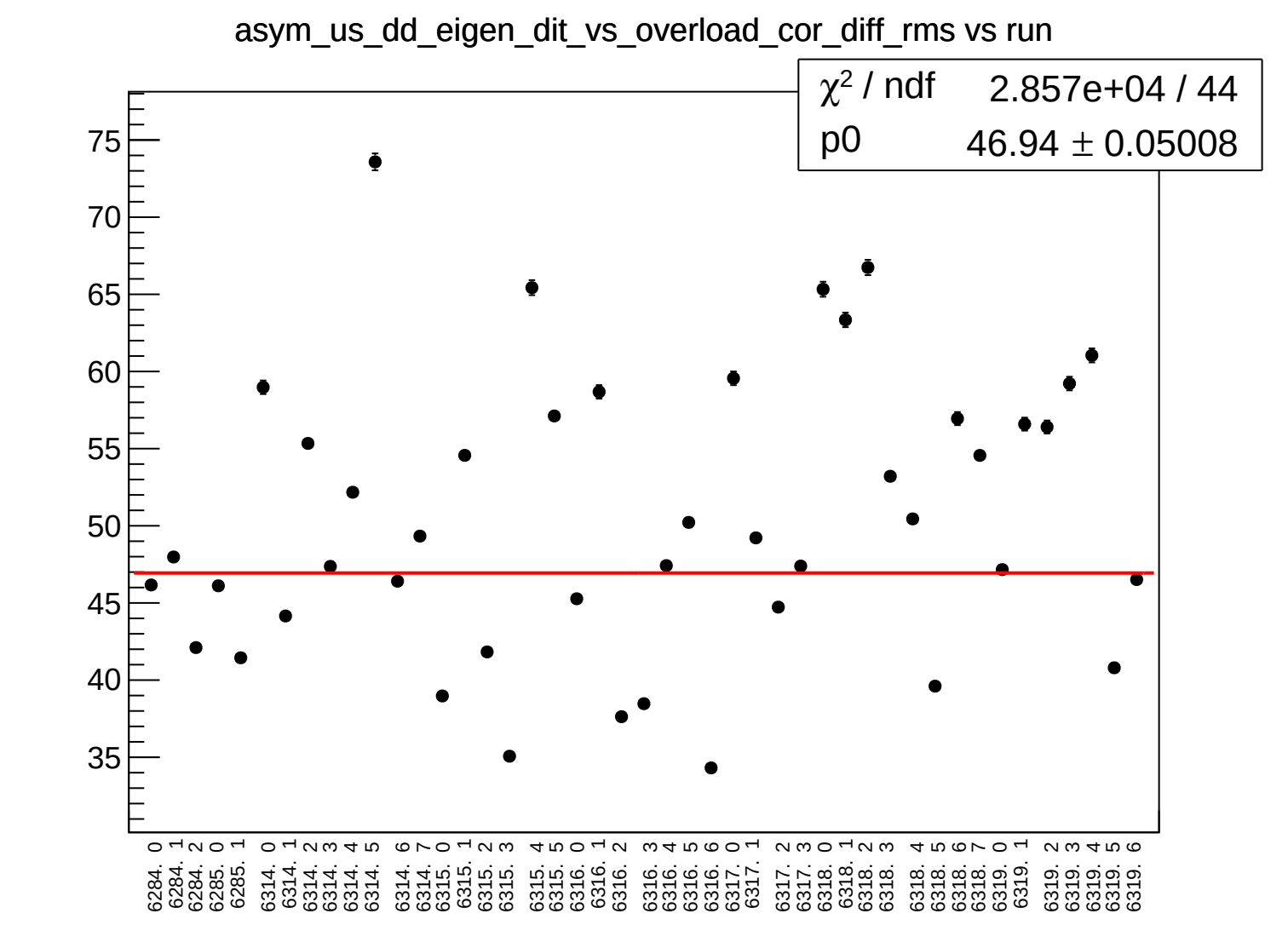
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 32.37 / 44
p0 −0.09972 ± 0.07082
pull
Entries 45
Mean 8.582
Std Dev 0


pull1D
Entries 45
Mean −0.03555
Std Dev 0.8474


asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.857e+04 / 44
p0 46.94 ± 0.05008
75
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6318. 2
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6318. 7
6319. 0
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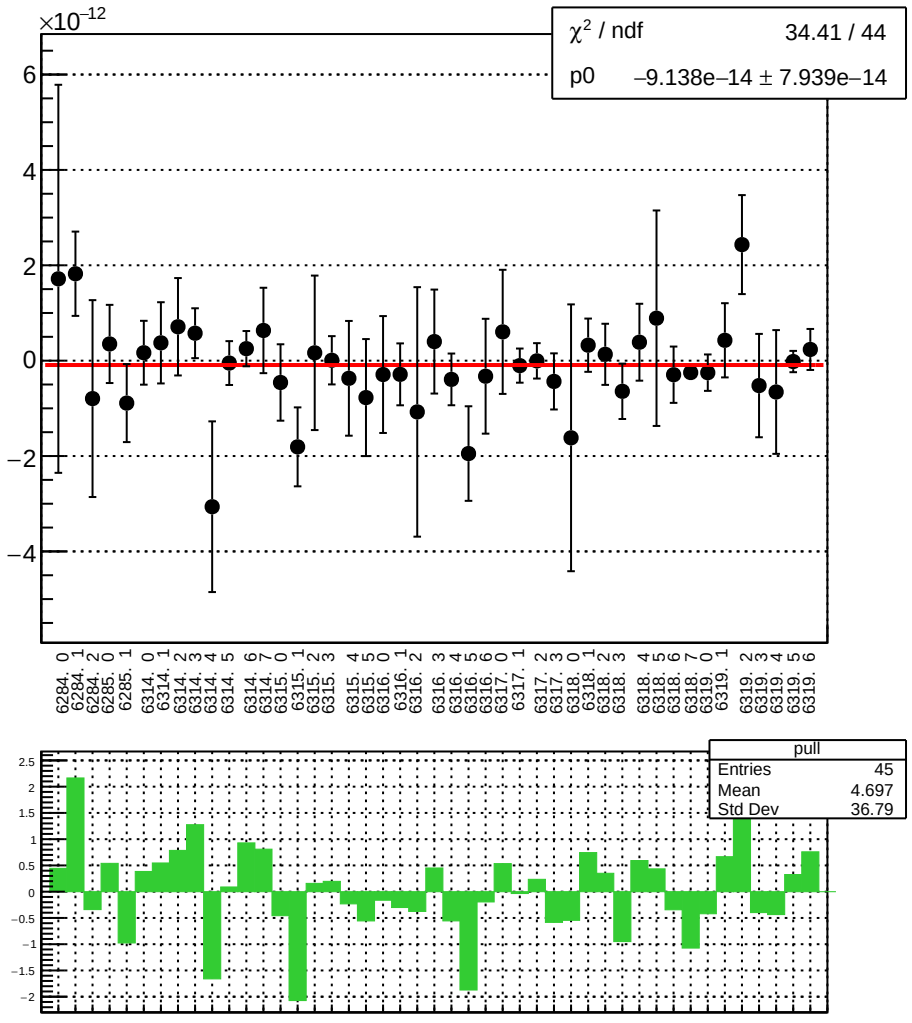
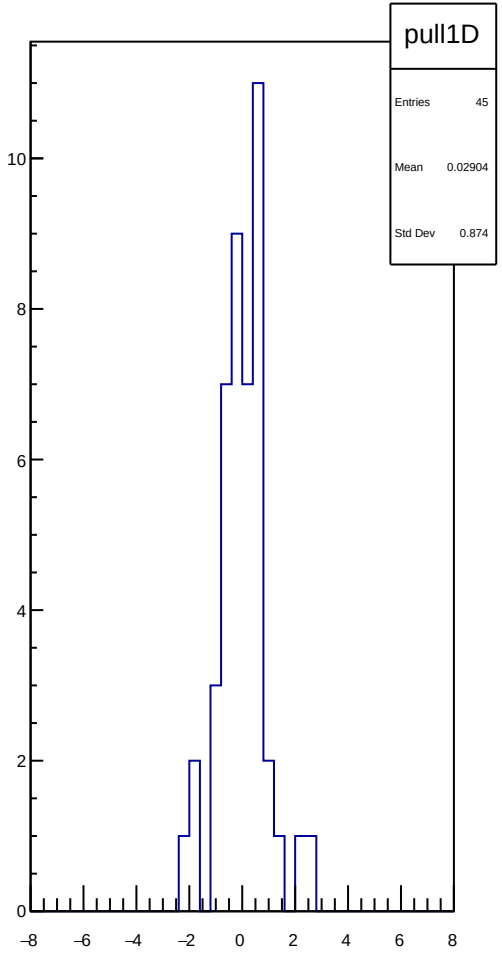
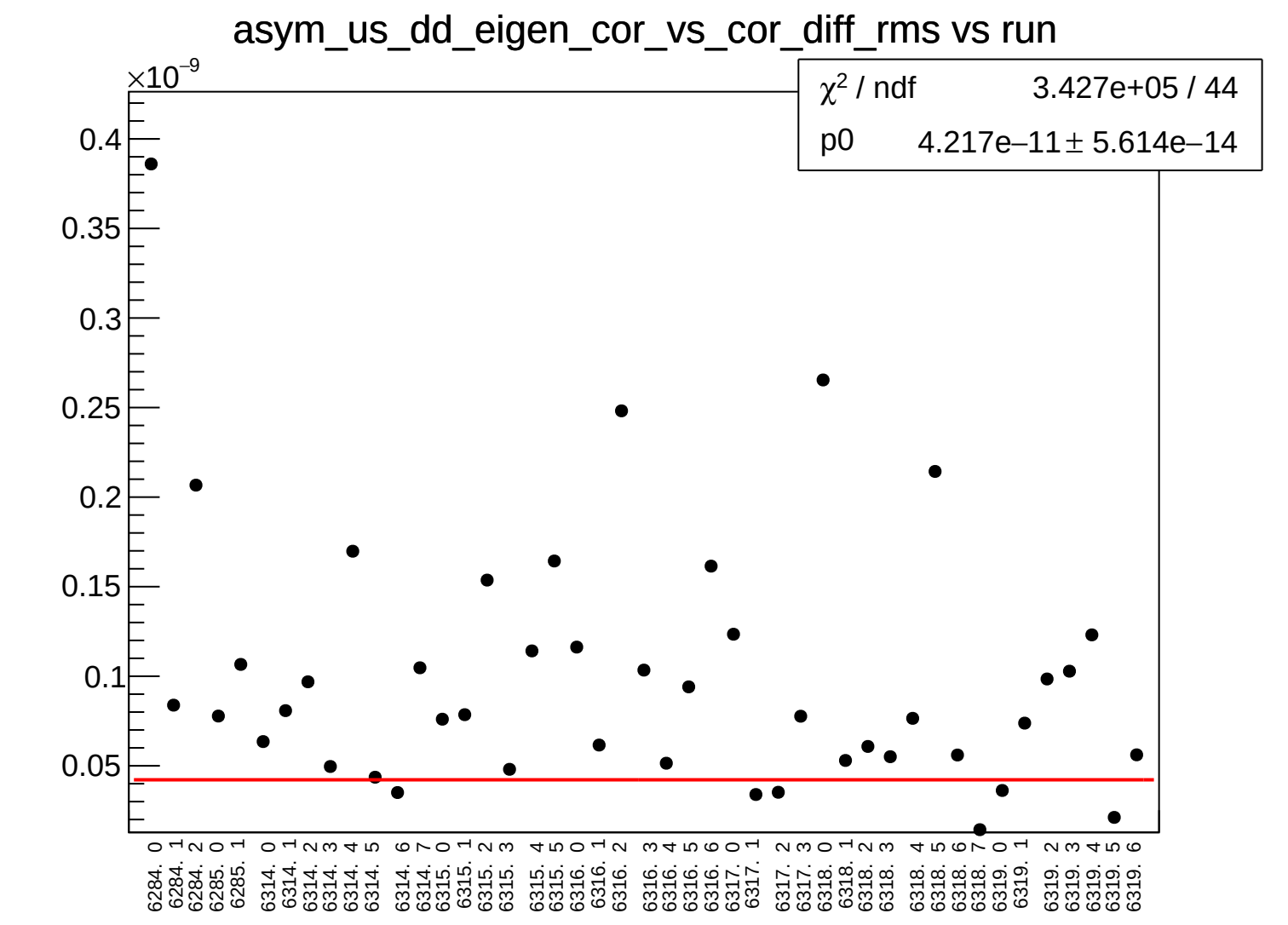
6319. 5
6319. 6


asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.41 / 44
p0 −9.138e−14 ± 7.939e−14
pull
Entries 45
Mean 4.697
Std Dev 36.79


pull1D
Entries 45
Mean 0.02904
Std Dev 0.874


asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.427e+05 / 44
p0 4.217e−11 ± 5.614e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
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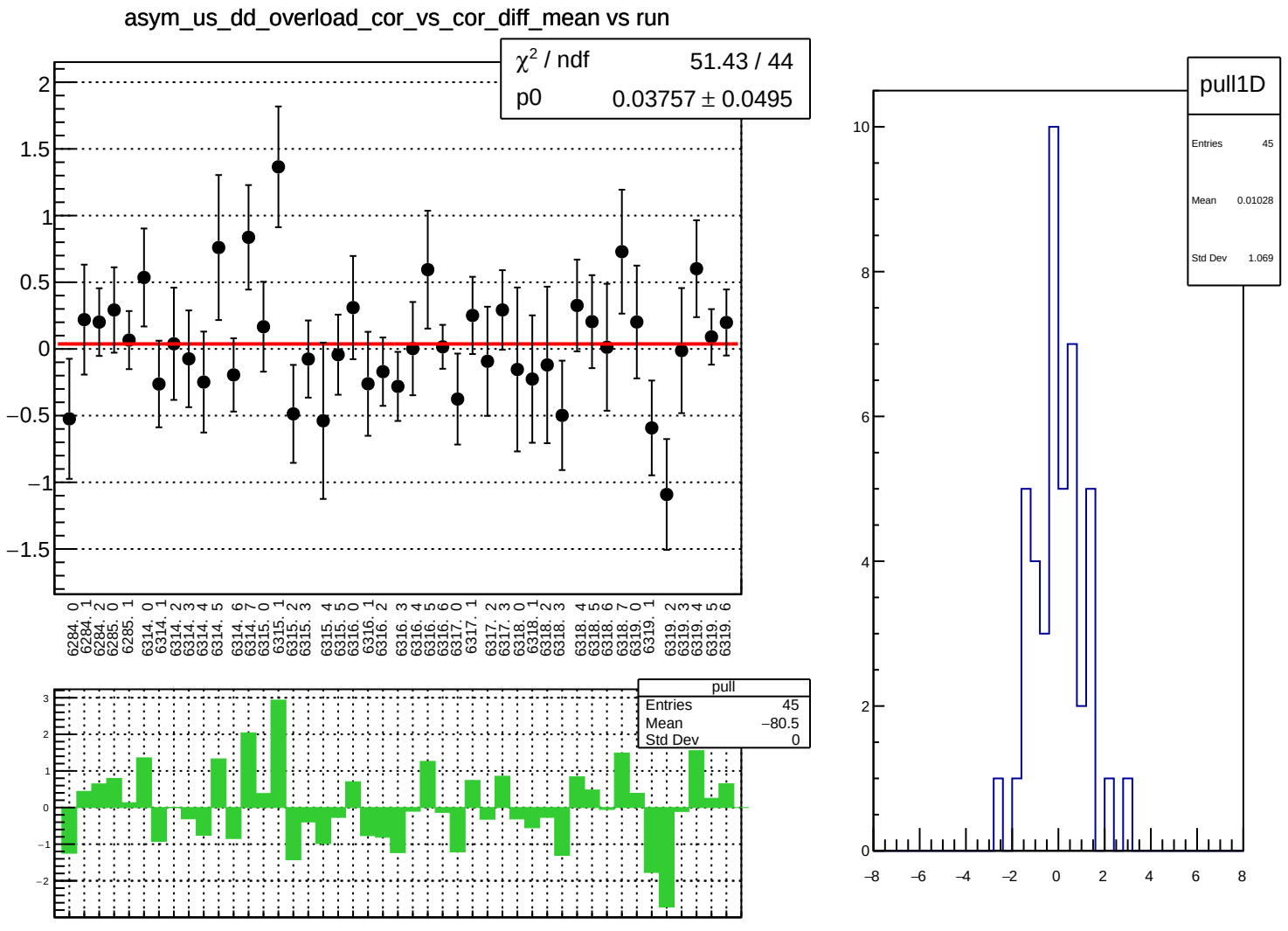
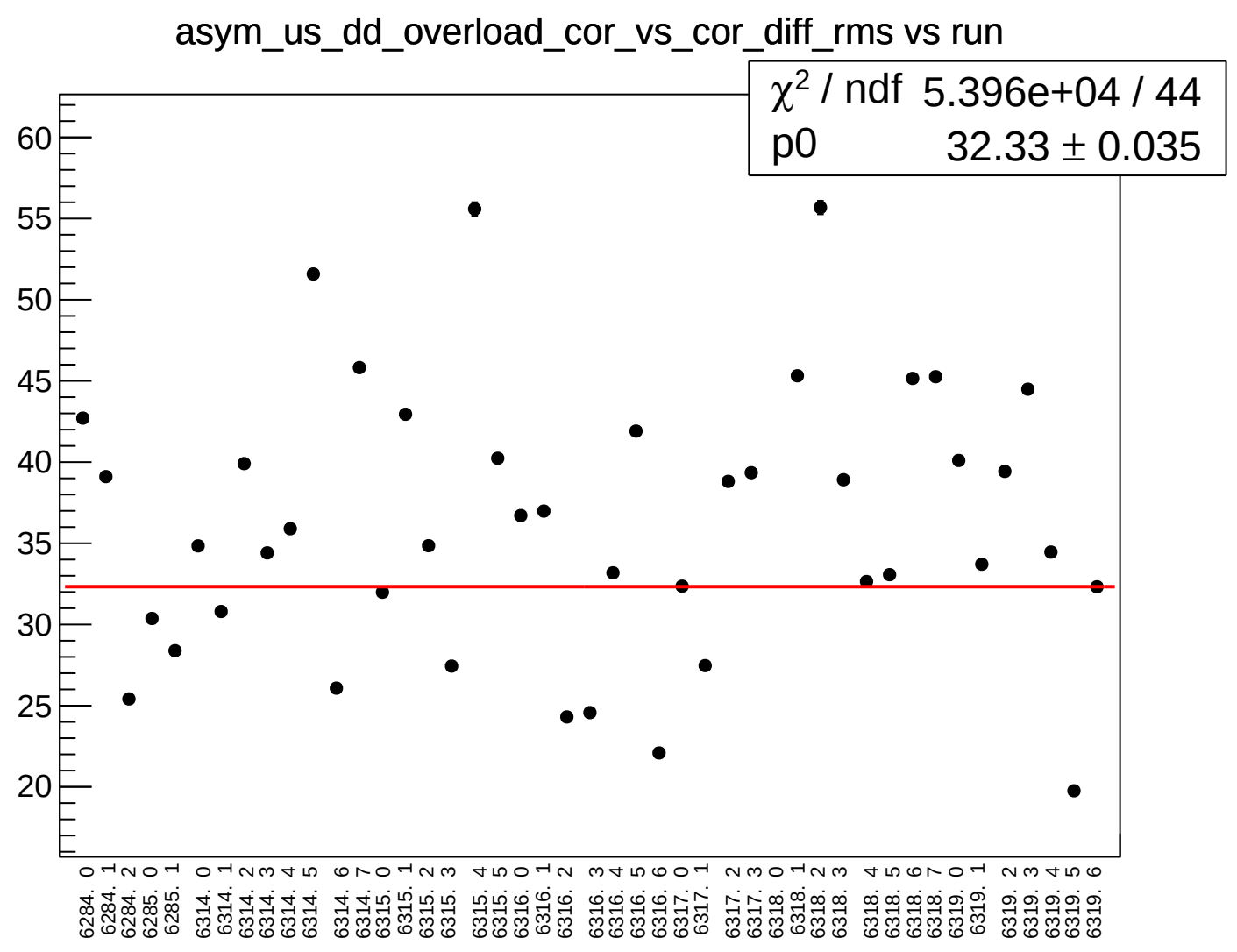
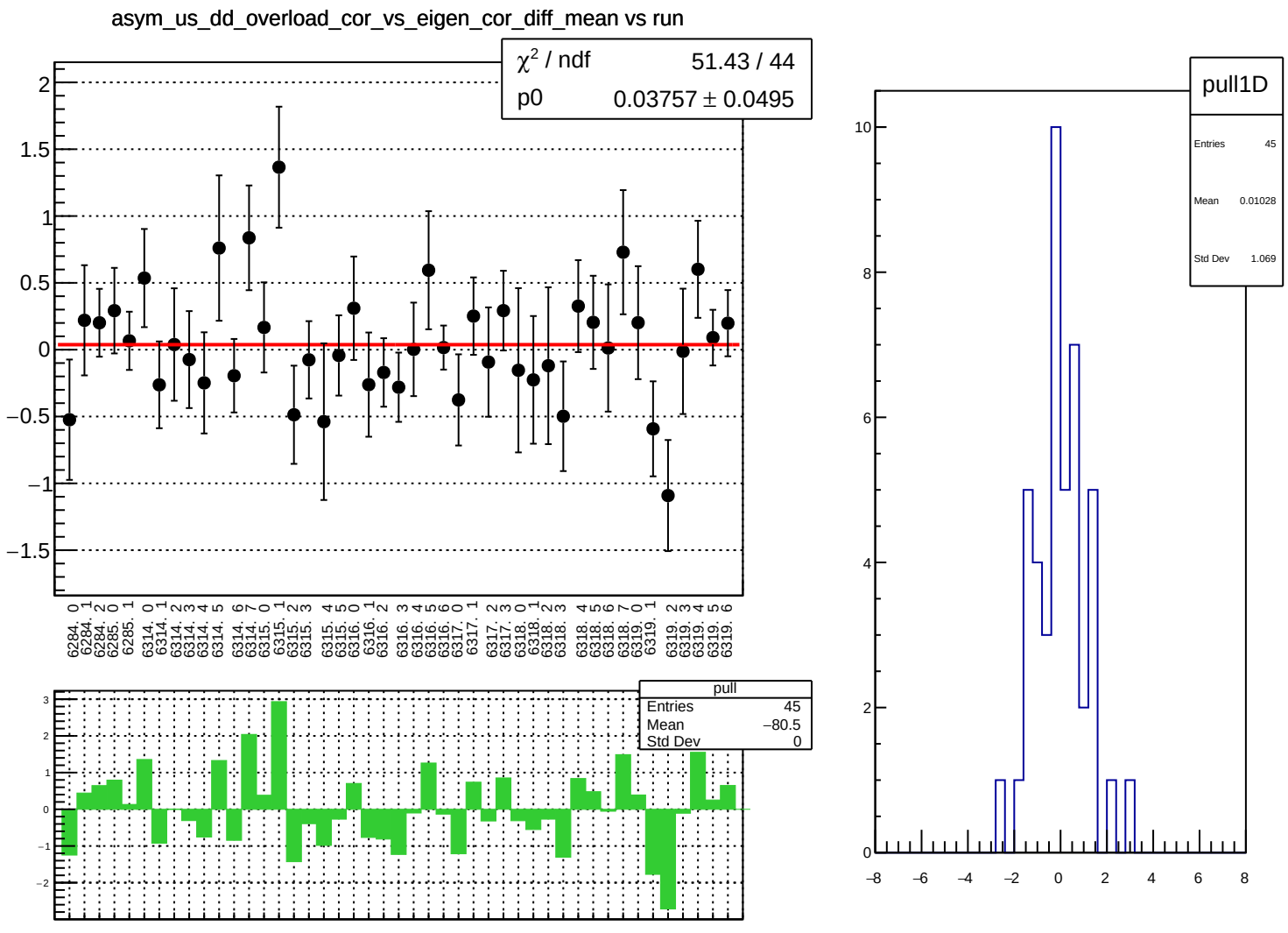
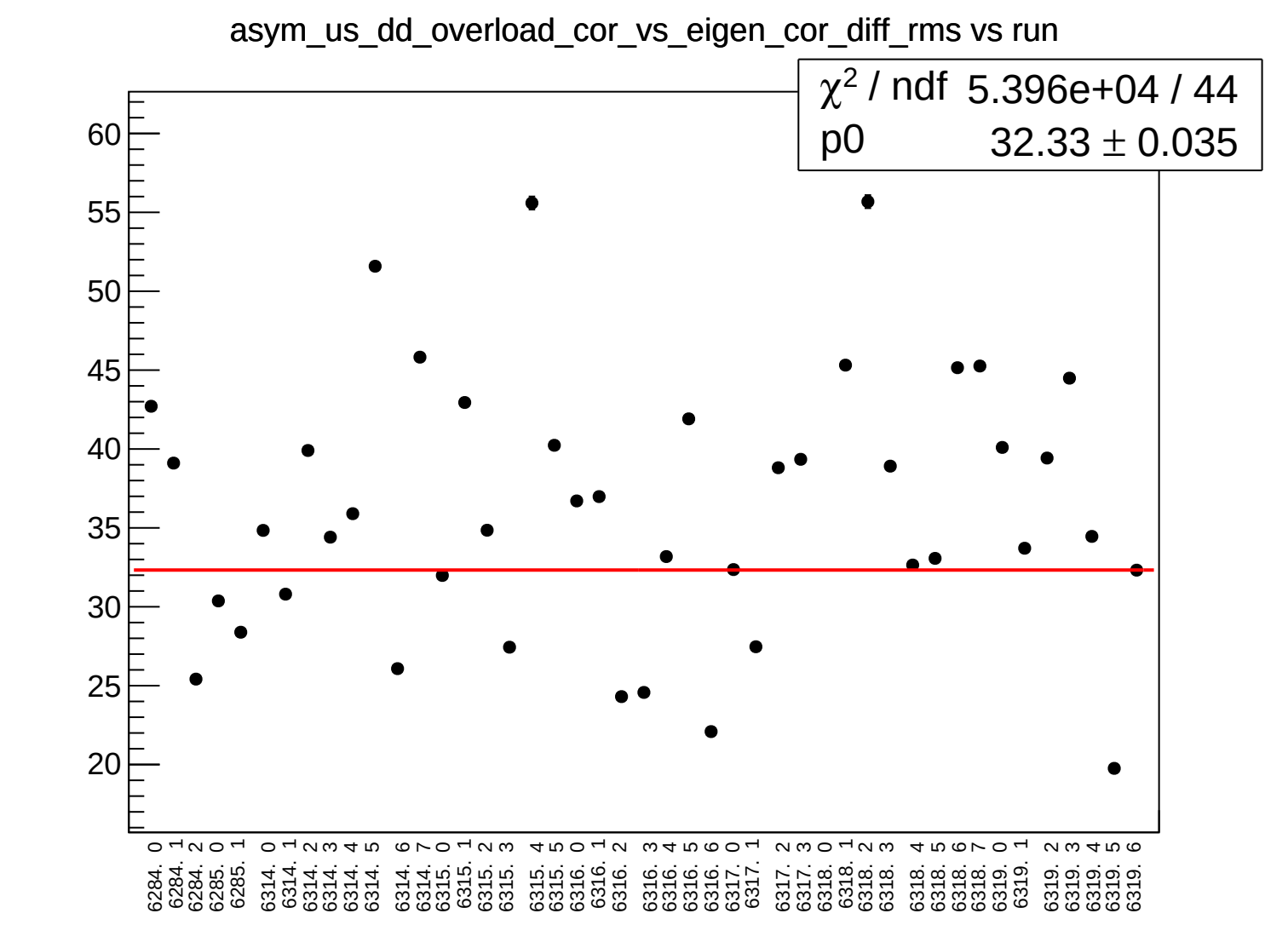
6319. 6


asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 51.43 / 44
p0 0.03757 ± 0.0495
pull
Entries 45
Mean −80.5
Std Dev 0
pull1D
Entries 45
Mean 0.01028
Std Dev 1.069


asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 44
p0 32.33 ± 0.035
60
55
50
45
40
35
30
25
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.43 / 44
p0 0.03757 ± 0.0495
pull
Entries 45
Mean −80.5
Std Dev 0
pull1D
Entries 45
Mean 0.01028
Std Dev 1.069


asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 44
p0 32.33 ± 0.035
60
55
50
45
40
35
30
25
20
6284. 0
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6284. 2
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6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
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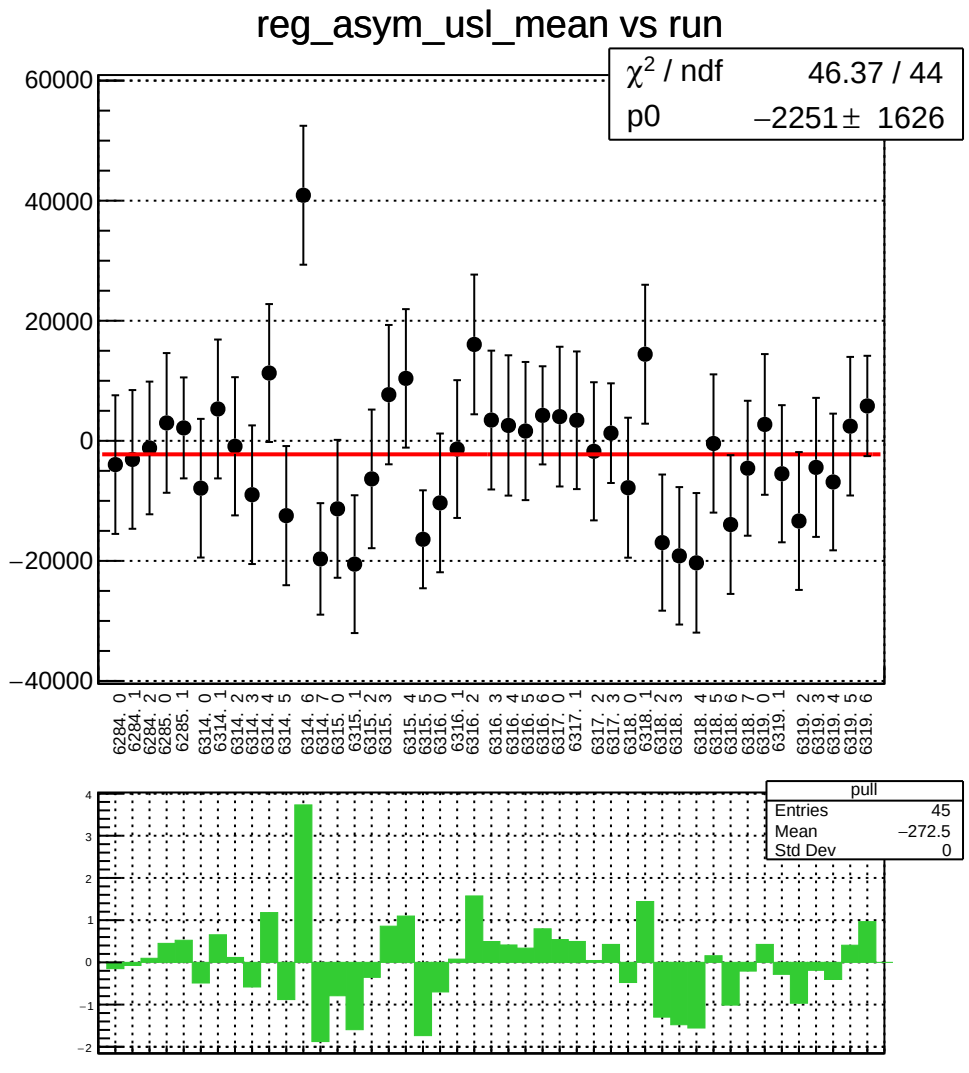
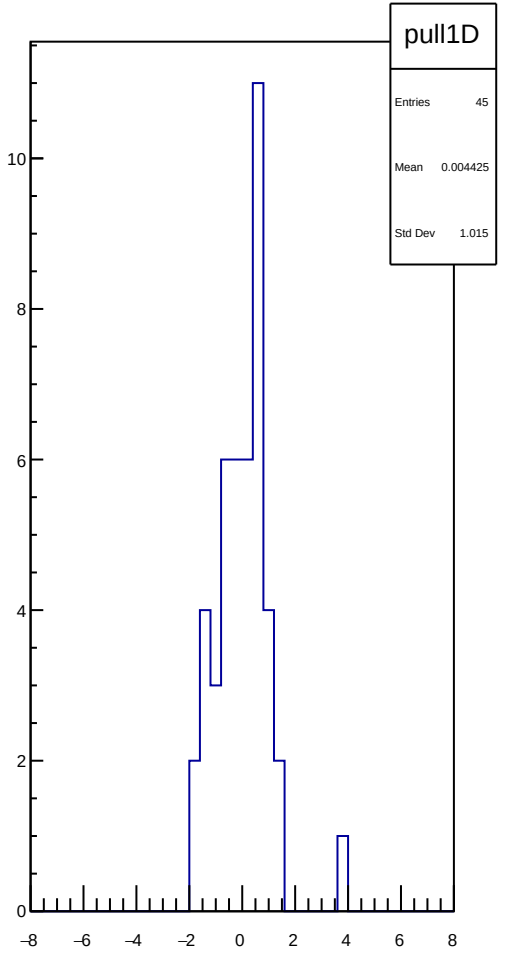
6319. 5
6319. 6


reg_asym_usl_mean vs run
χ² / ndf 46.37 / 44
p0 −2251 ± 1626
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −272.5
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004425
Std Dev 1.015
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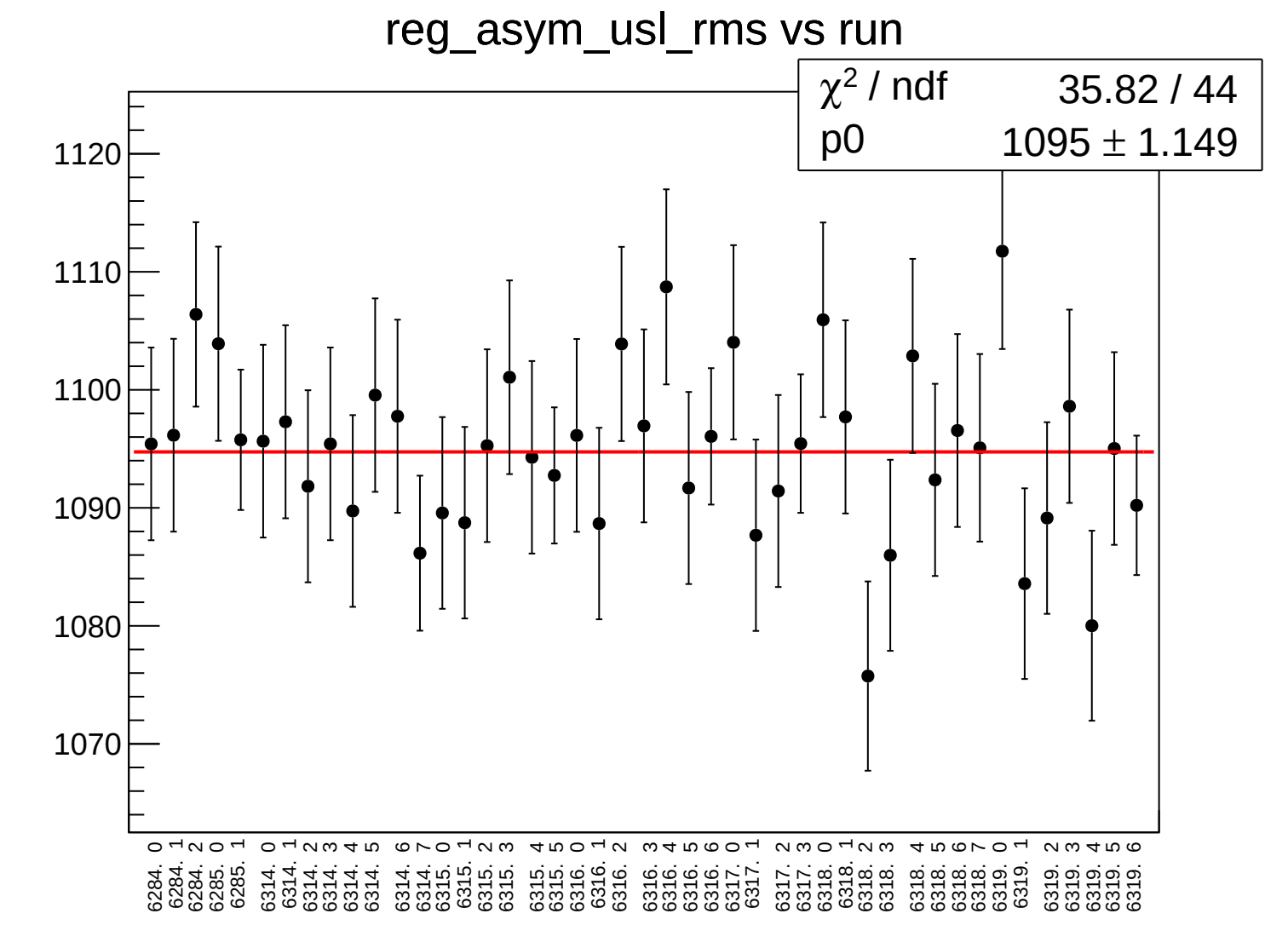
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 35.82 / 44
p0 1095 ± 1.149
1120
1110
1100
1090
1080
1070
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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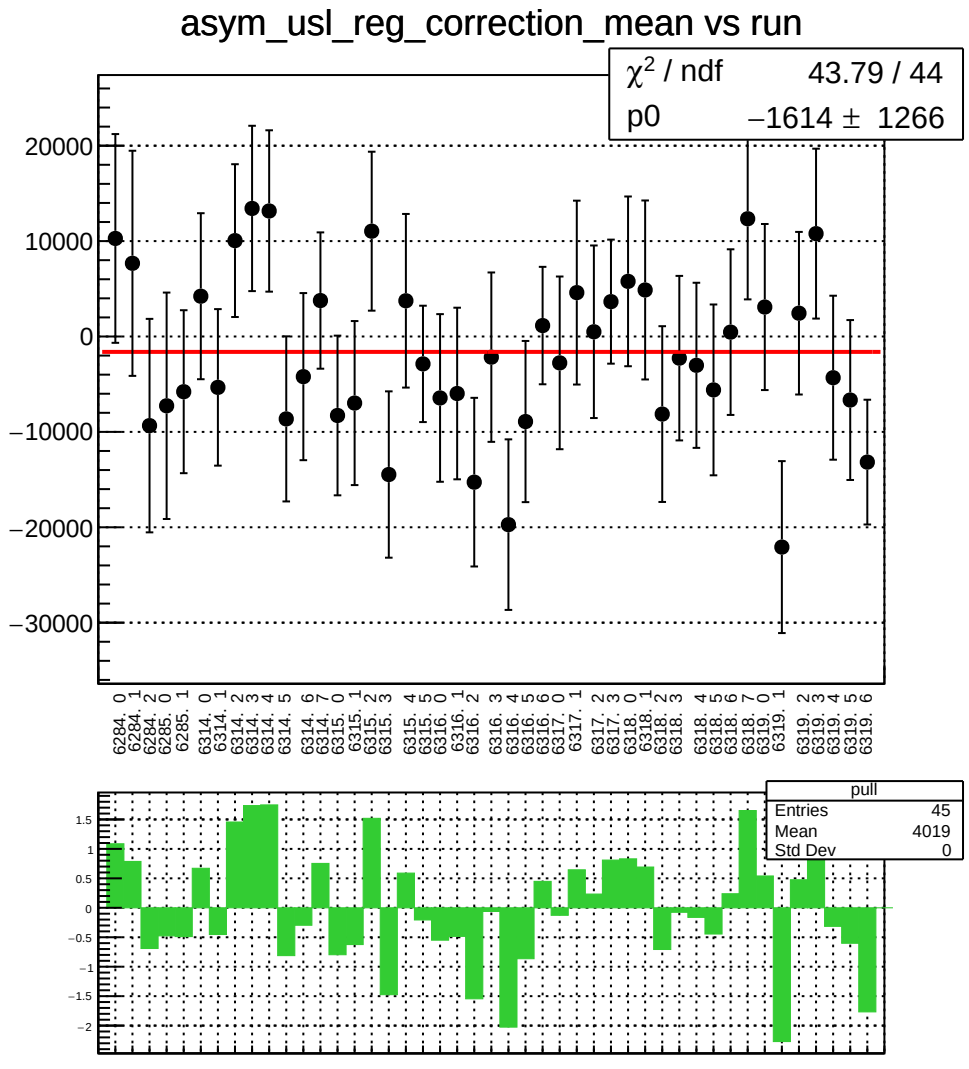
6319. 5
6319. 6


asym_usl_reg_correction_mean vs run
χ² / ndf 43.79 / 44
p0 −1614 ± 1266
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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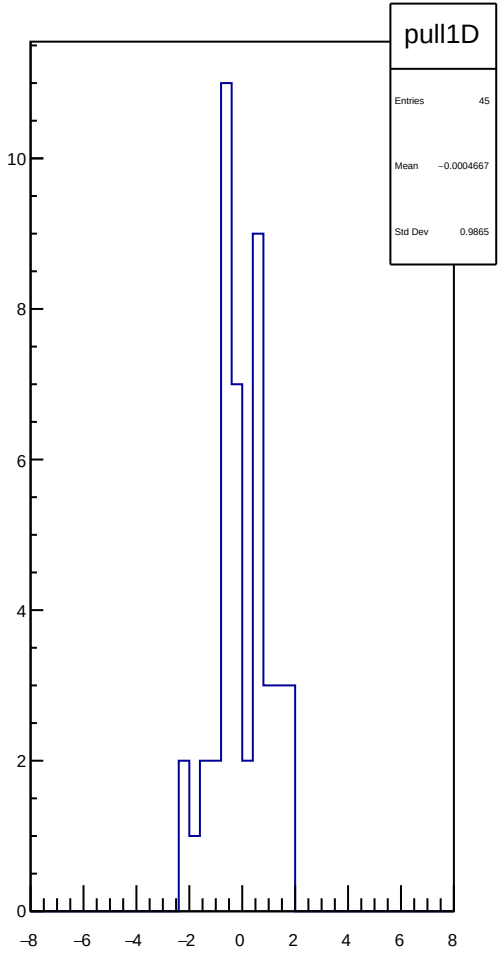
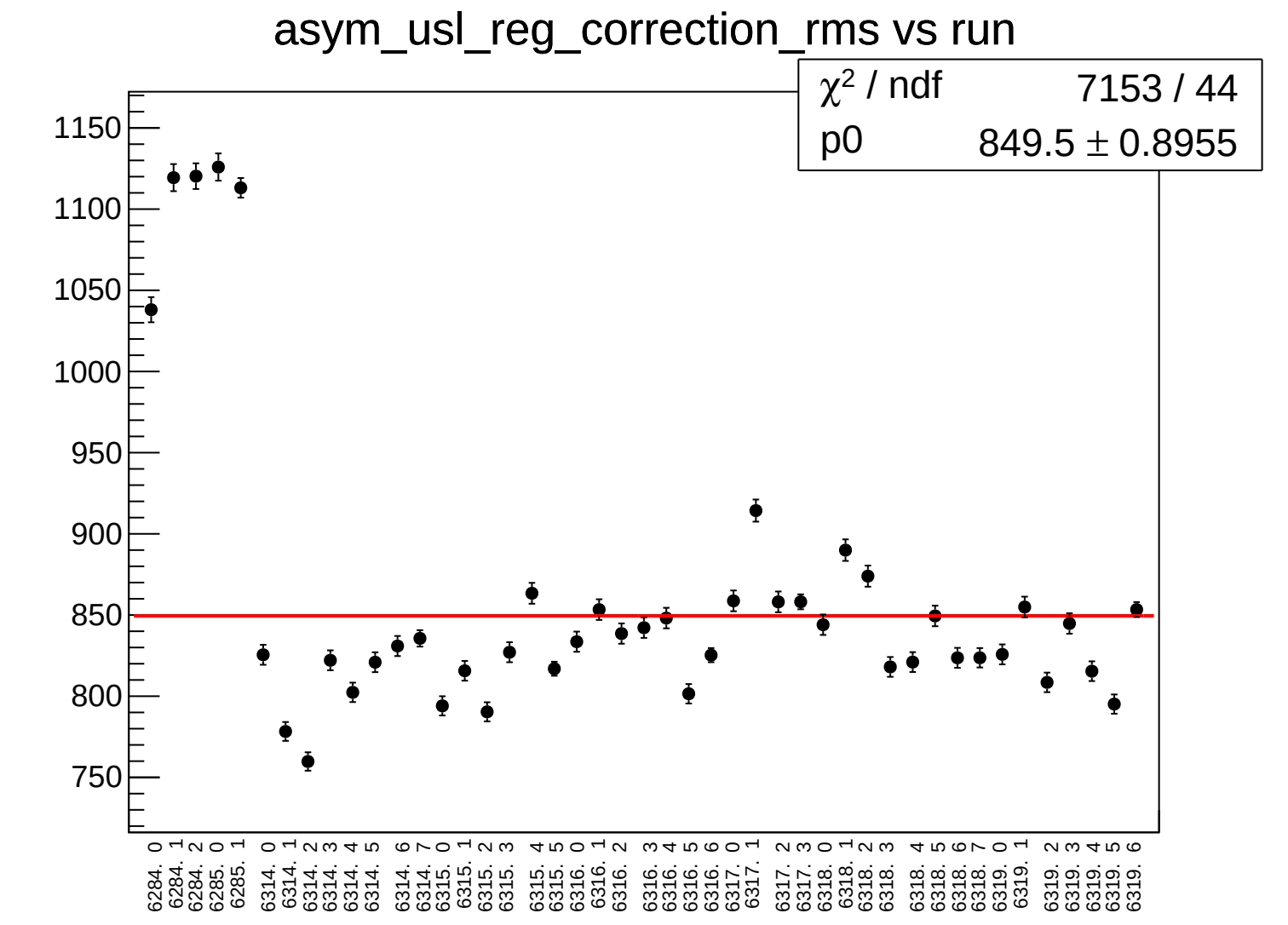
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4019
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0004667
Std Dev 0.9865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_reg_correction_rms vs run
χ² / ndf 7153 / 44
p0 849.5 ± 0.8955
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
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6319. 2
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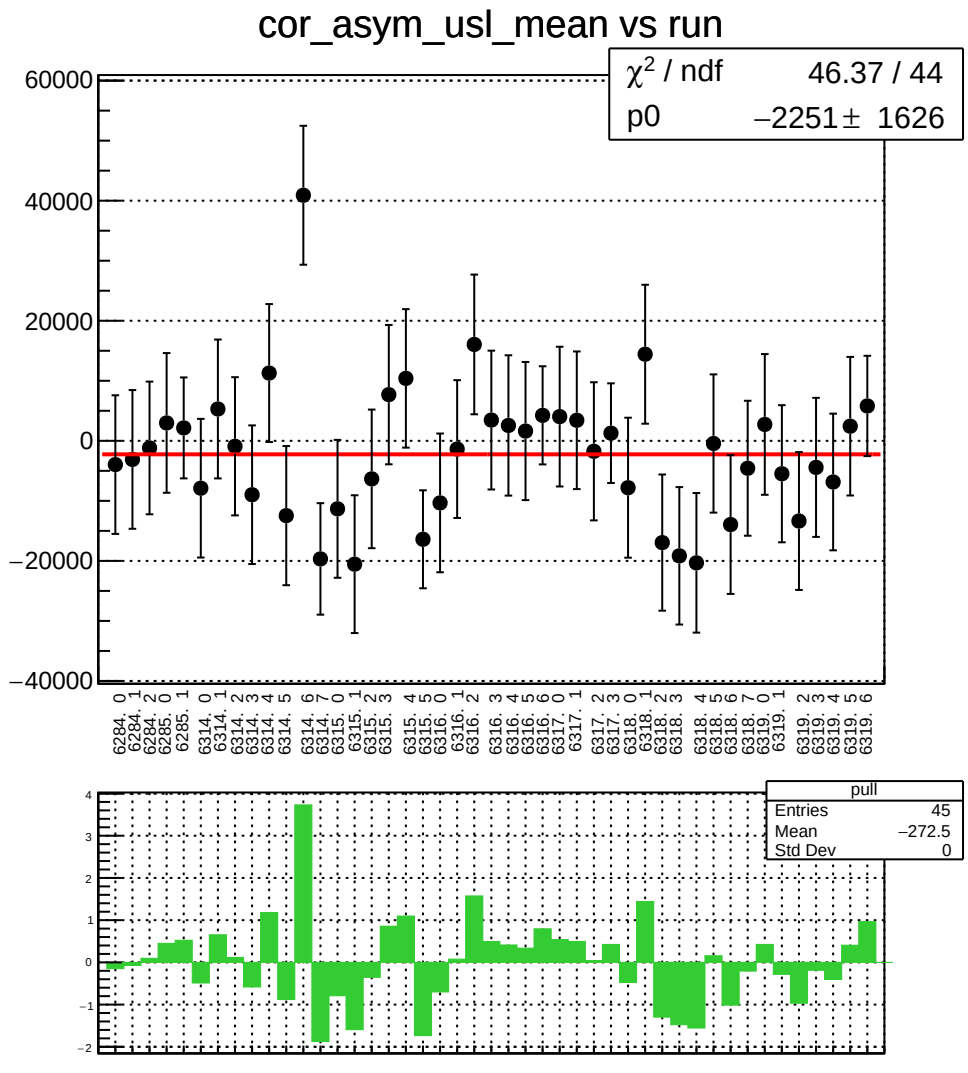
6319. 5
6319. 6


cor_asym_usl_mean vs run
χ² / ndf 46.37 / 44
p0 −2251 ± 1626
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −272.5
Std Dev 0
4
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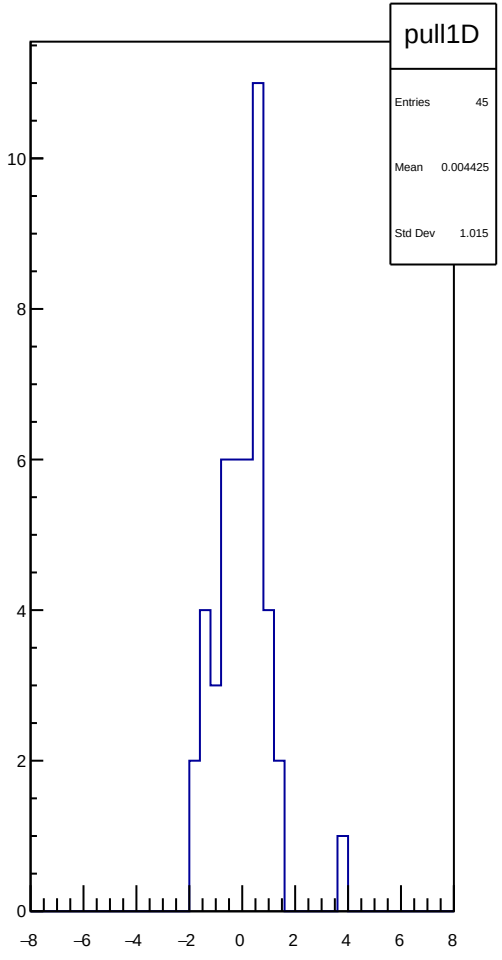
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004425
Std Dev 1.015
10
8
6
4
2
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−6
−4
−2
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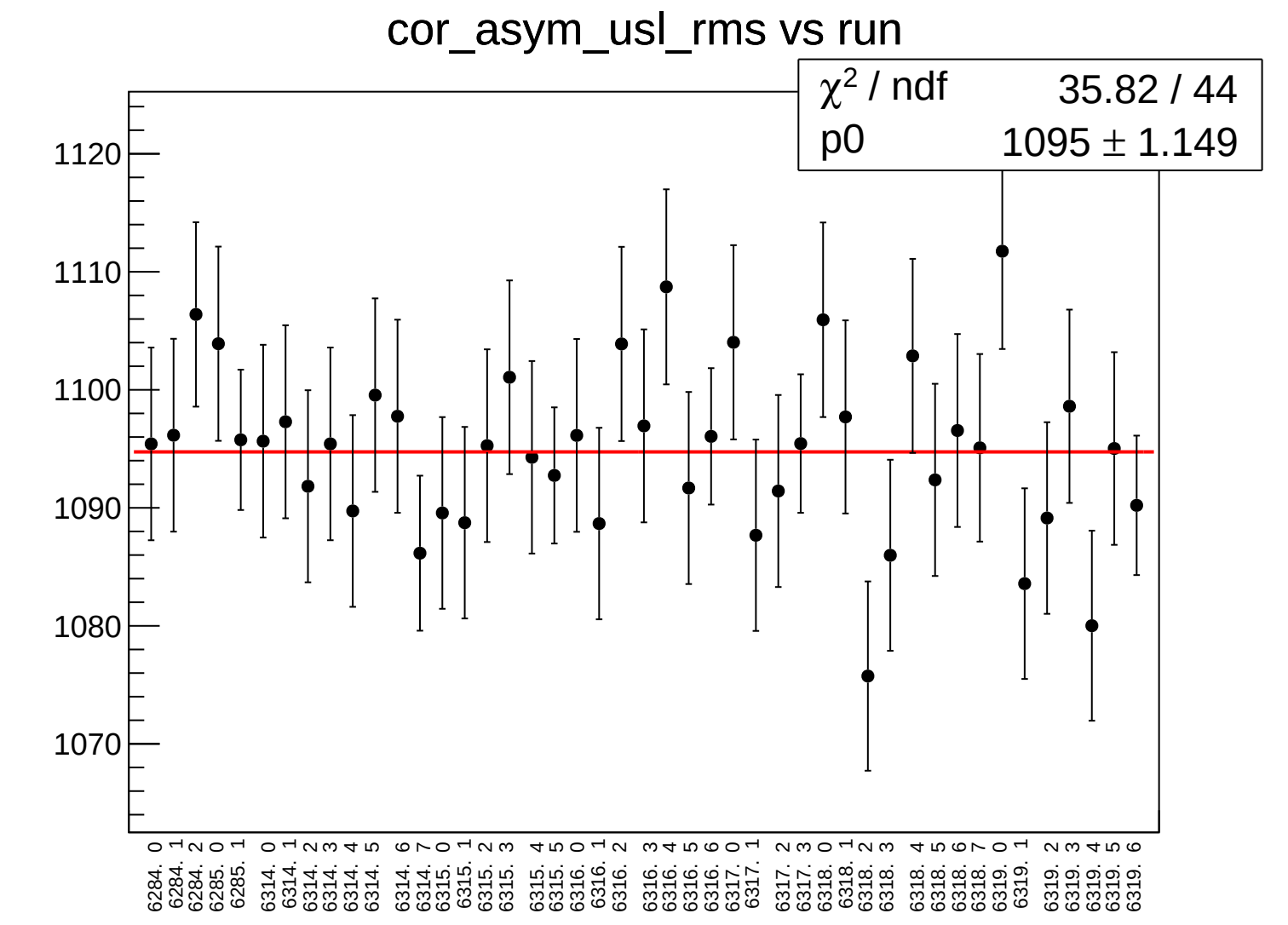
2
4
6
8


cor_asym_usl_rms vs run
χ^2 / ndf 35.82 / 44
p0 1095 ± 1.149
1120
1110
1100
1090
1080
1070
6284. 0
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6284. 2
6285. 0
6285. 1
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6316. 2
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6316. 4
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6316. 6
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6318. 0
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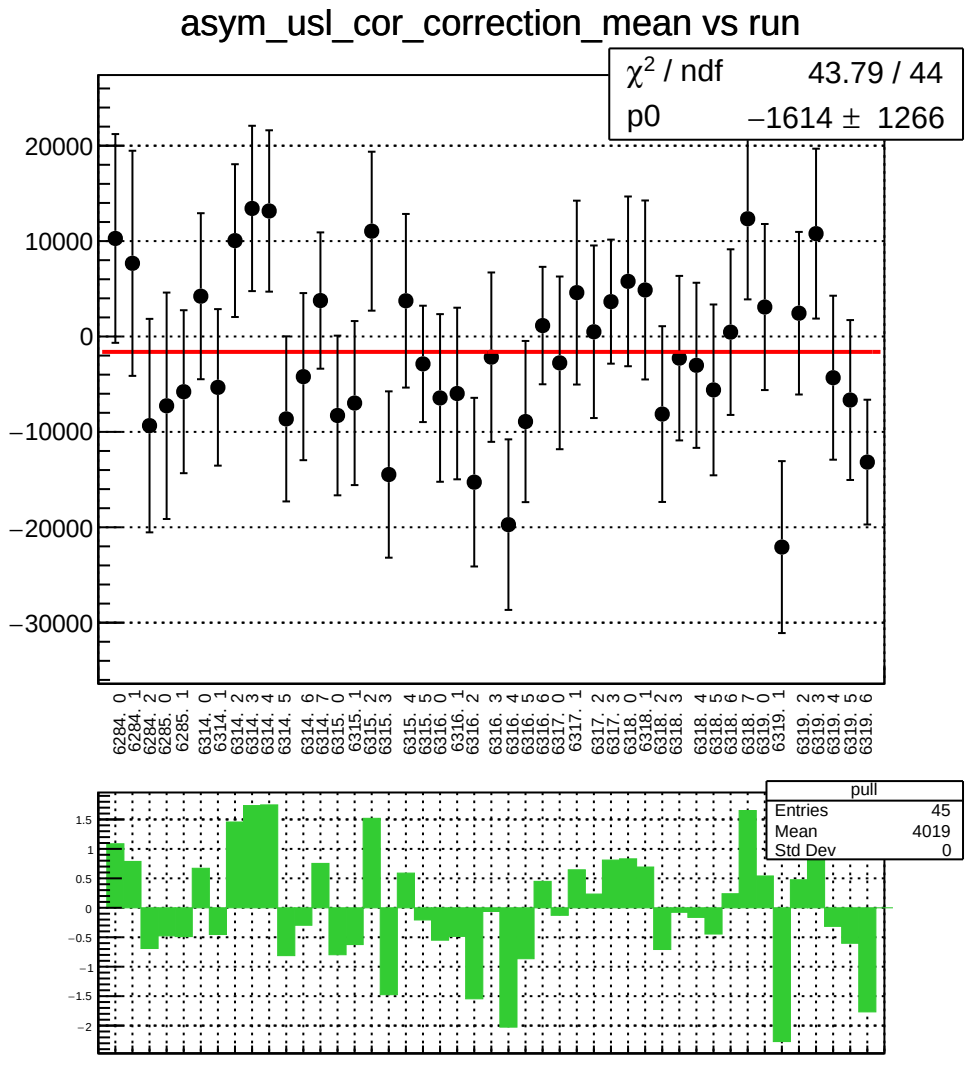
6319. 6


asym_usl_cor_correction_mean vs run
χ² / ndf 43.79 / 44
p0 −1614 ± 1266
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
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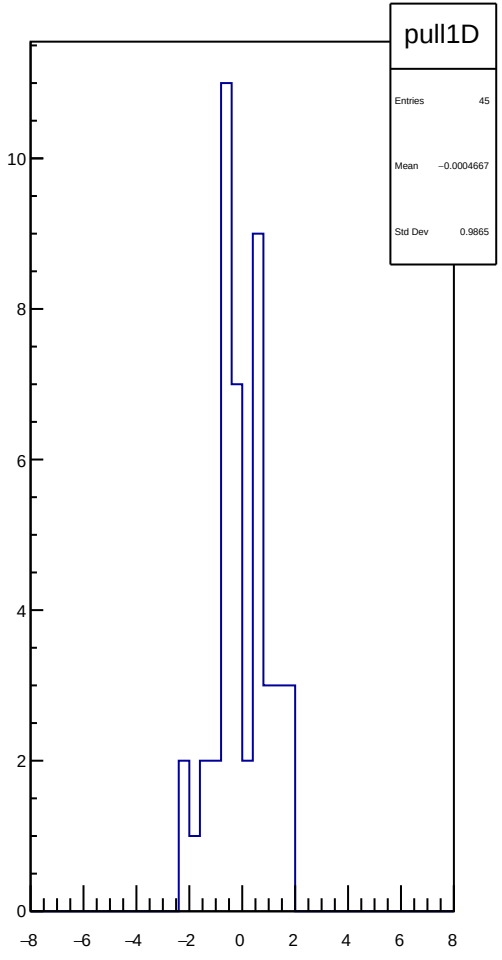
pull
Entries 45
Mean 4019
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0004667
Std Dev 0.9865
10
8
6
4
2
0
−8
−6
−4
−2
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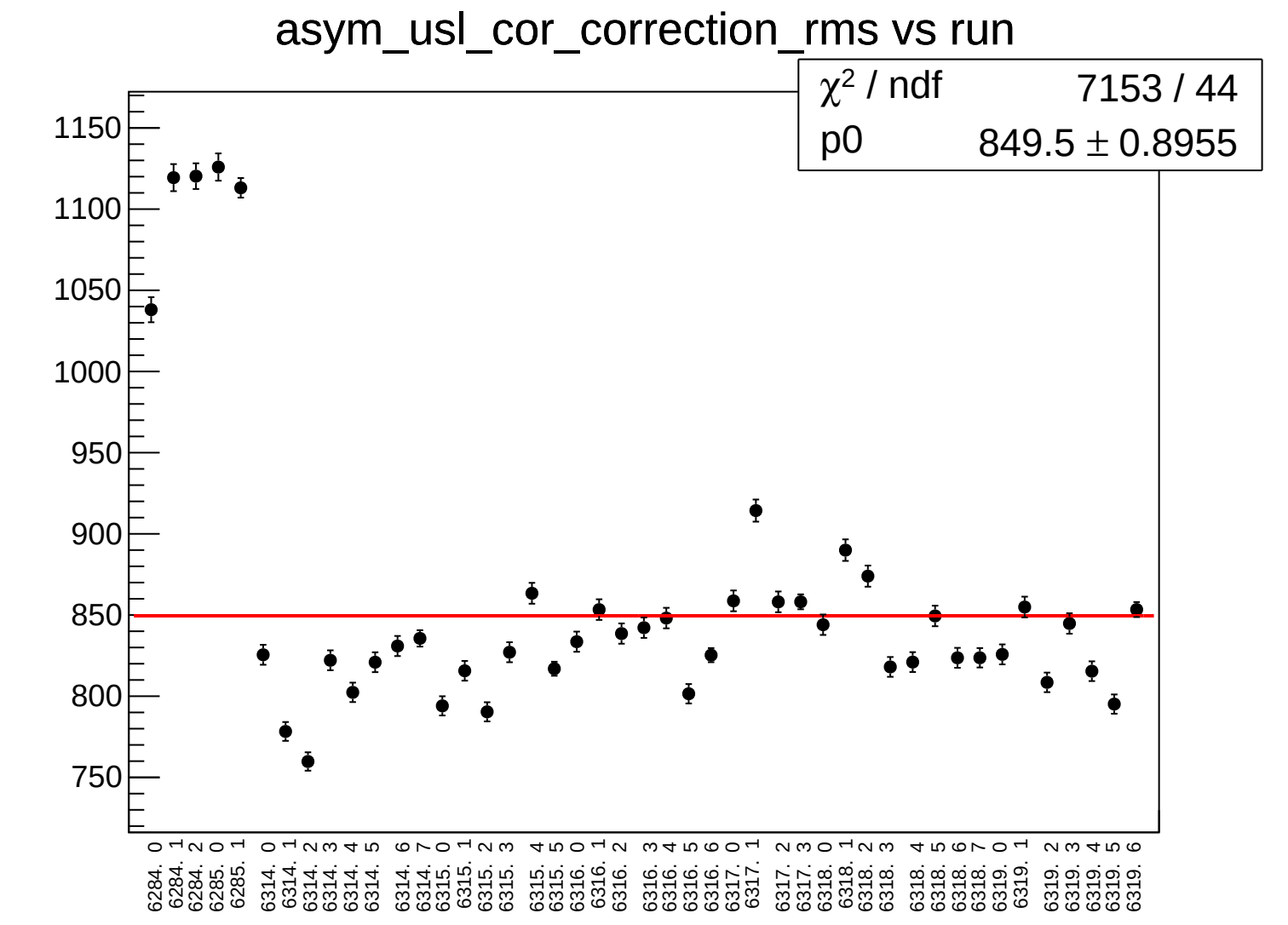
2
4
6
8


asym_usl_cor_correction_rms vs run
χ² / ndf 7153 / 44
p0 849.5 ± 0.8955
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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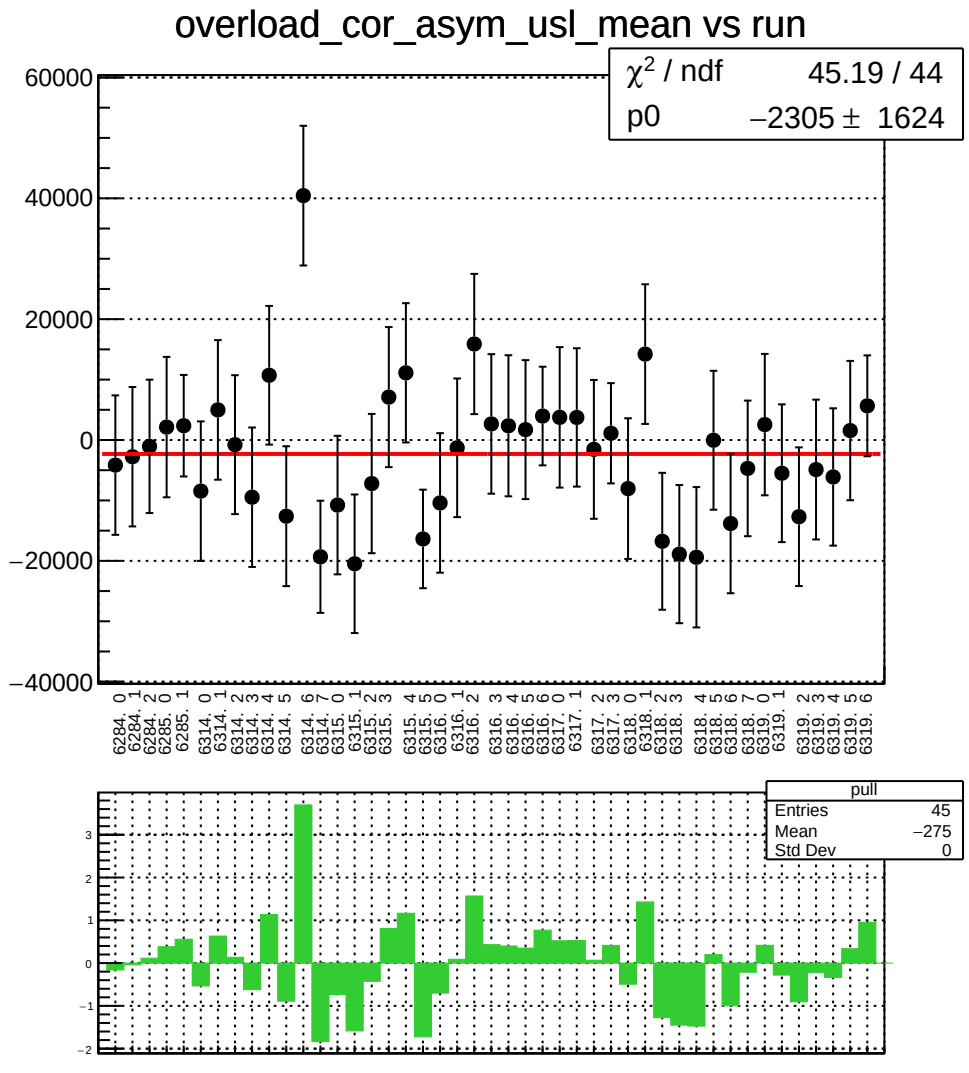
6319. 5
6319. 6


overload_cor_asym_usl_mean vs run
χ² / ndf 45.19 / 44
p0 −2305 ± 1624
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
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6285. 1
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6318. 7
6319. 0
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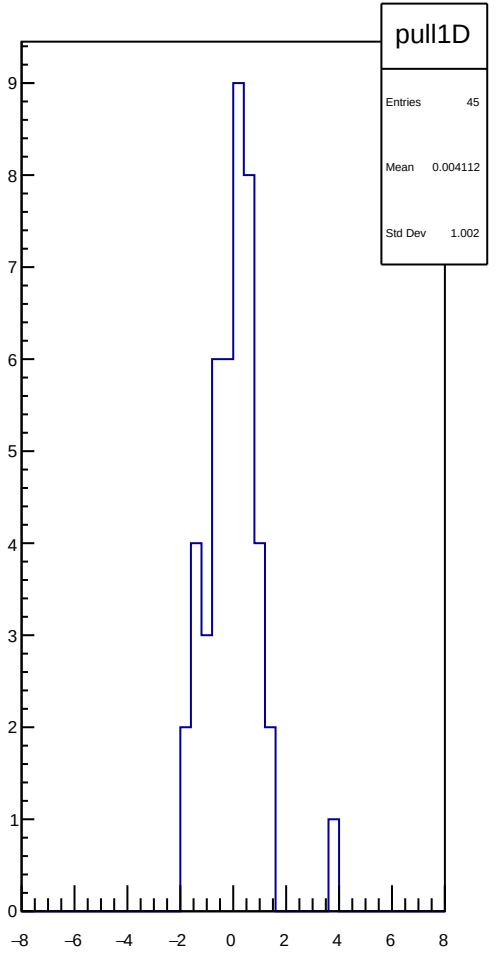
6319. 6
pull
Entries 45
Mean −275
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004112
Std Dev 1.002
9
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1
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−4
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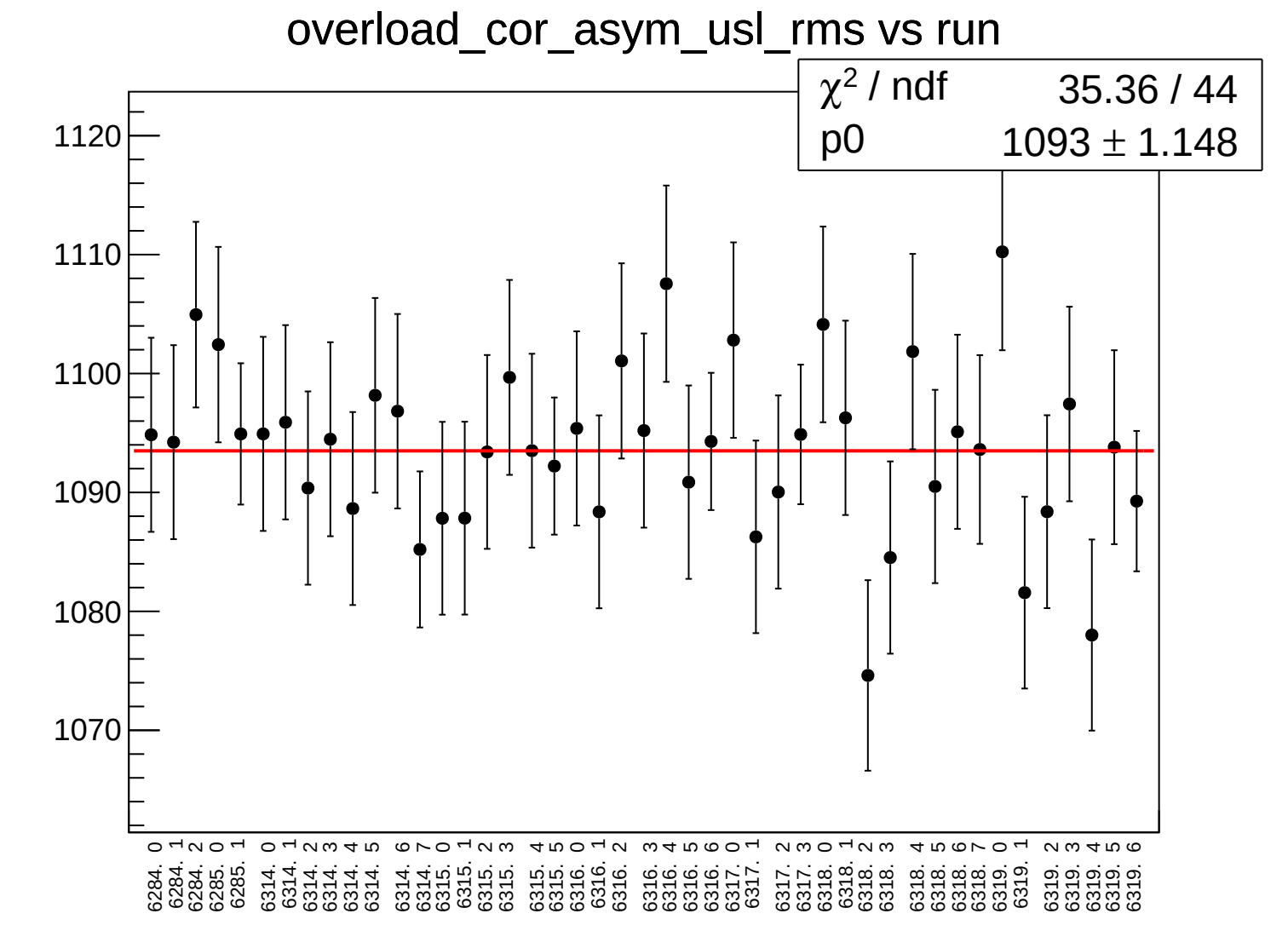
4
6
8


overload_cor_asym_usl_rms vs run
χ² / ndf 35.36 / 44
p0 1093 ± 1.148
1120
1110
1100
1090
1080
1070
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
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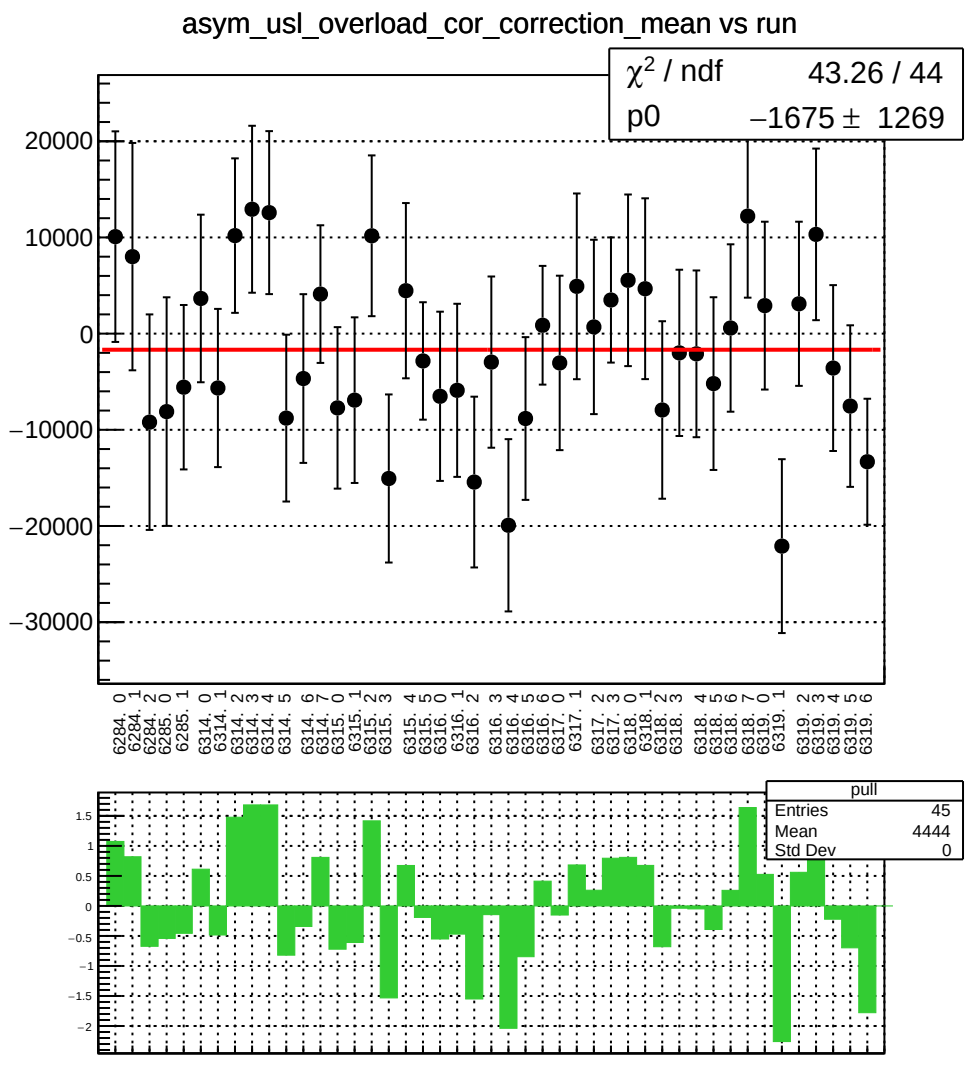
asym_usl_overload_cor_correction_mean vs run
χ² / ndf 43.26 / 44
p0 −1675 ± 1269
20000
10000
0
−10000
−20000
−30000
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6284. 2
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6285. 1
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6317. 2
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6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
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pull
Entries 45
Mean 4444
Std Dev 0
1.5
1
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0
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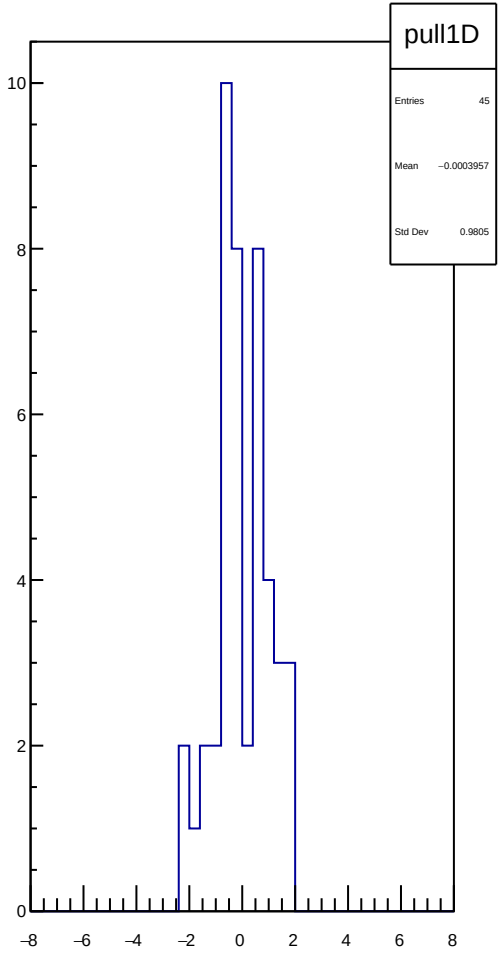
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0003957
Std Dev 0.9805
10
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2
0
−8
−6
−4
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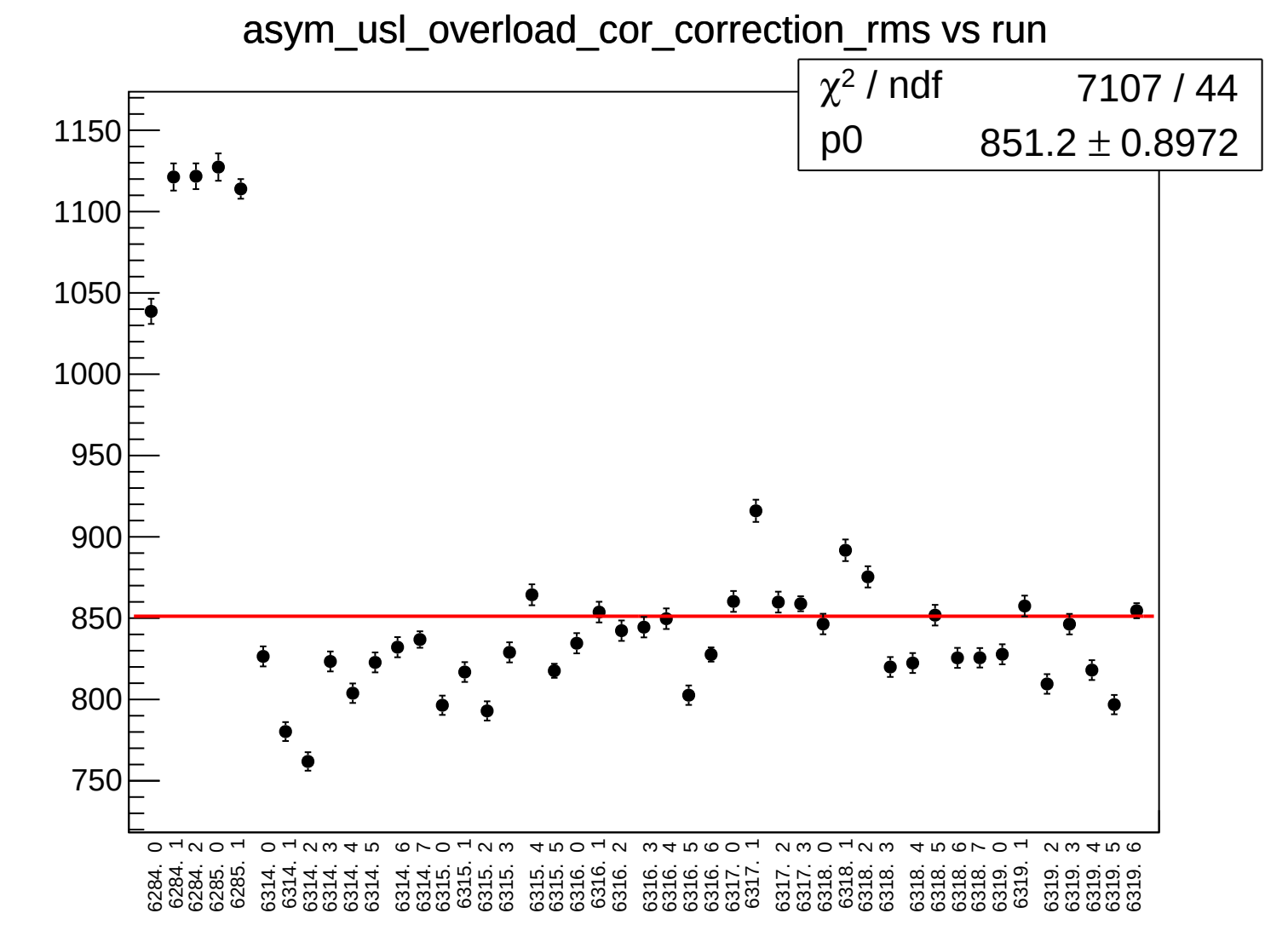
0
2
4
6
8


asym_usl_overload_cor_correction_rms vs run
χ² / ndf 7107 / 44
p0 851.2 ± 0.8972
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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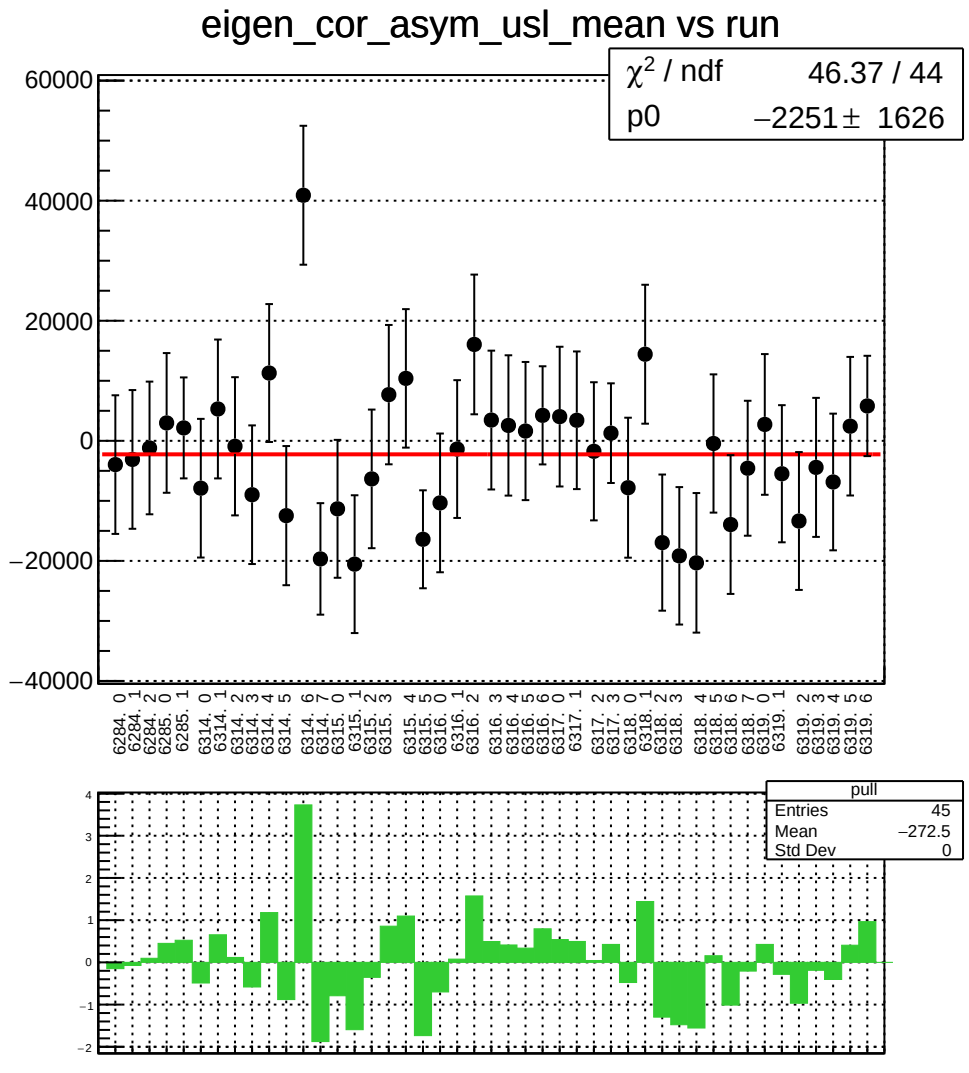
eigen_cor_asym_usl_mean vs run
χ² / ndf 46.37 / 44
p0 −2251 ± 1626
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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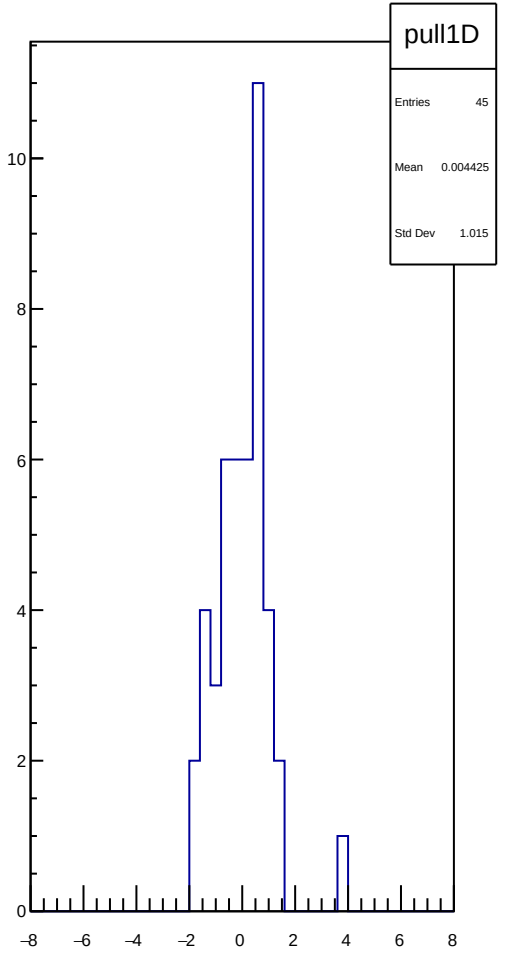
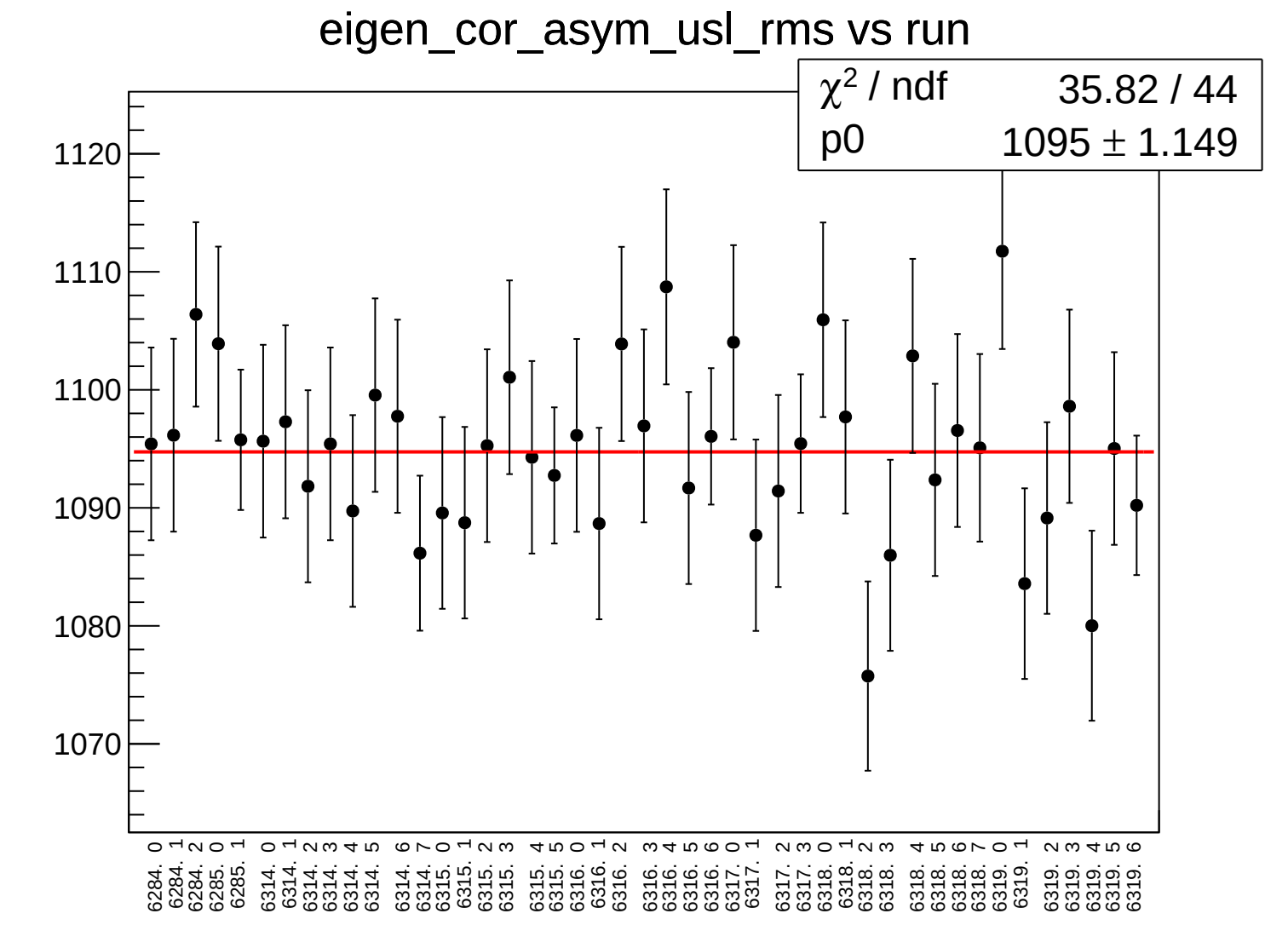
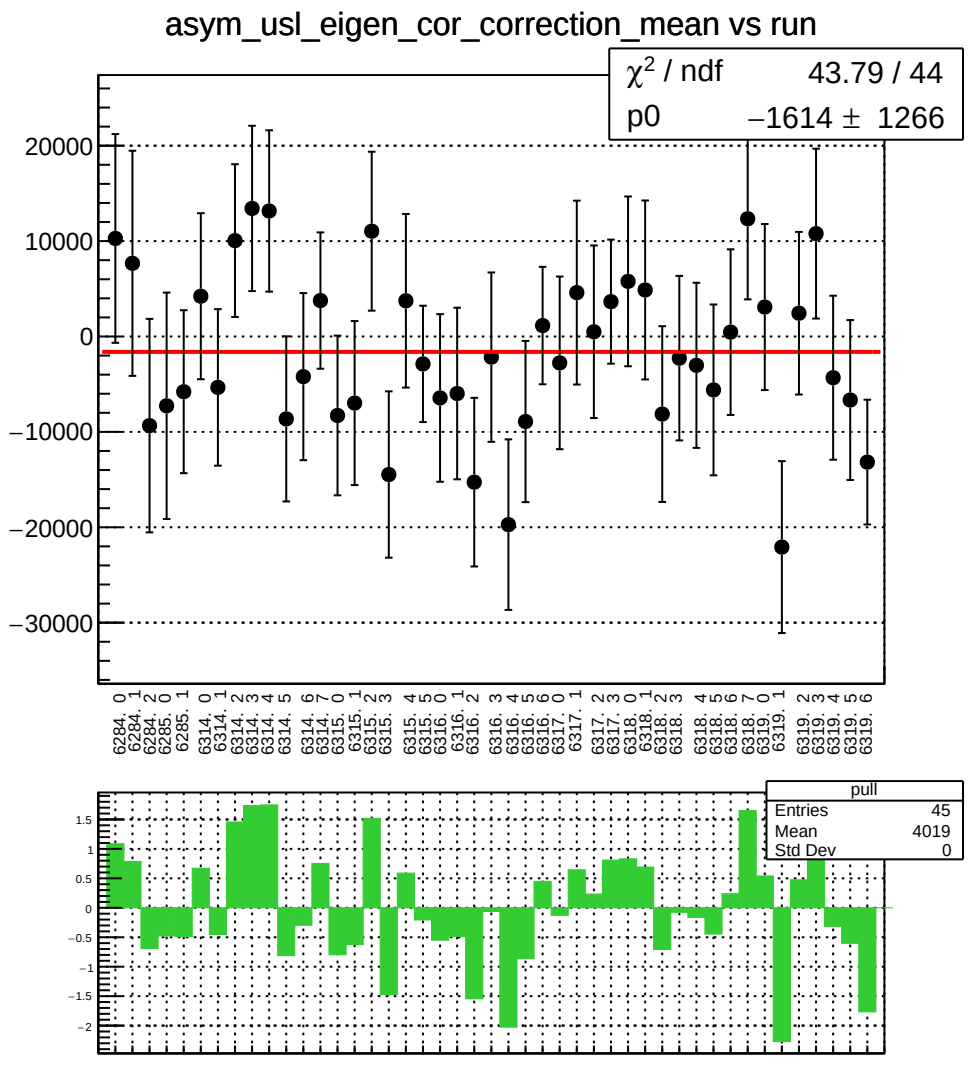
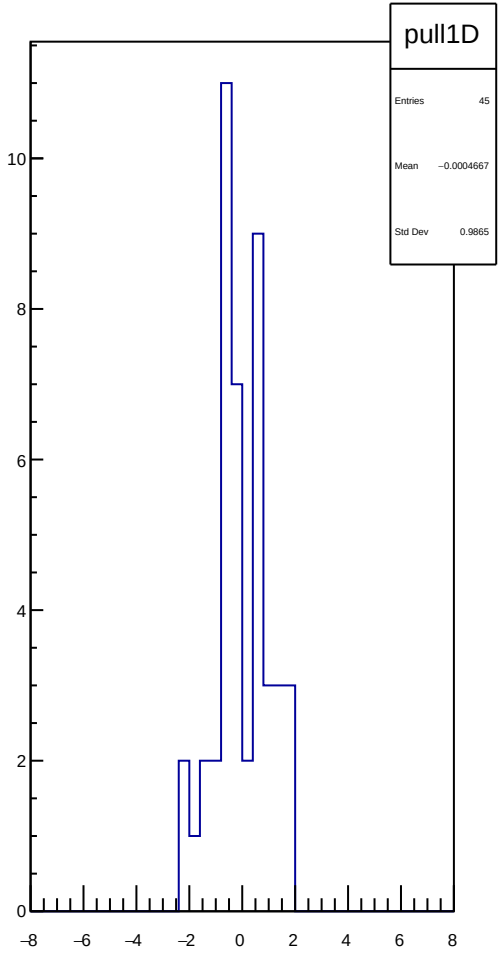
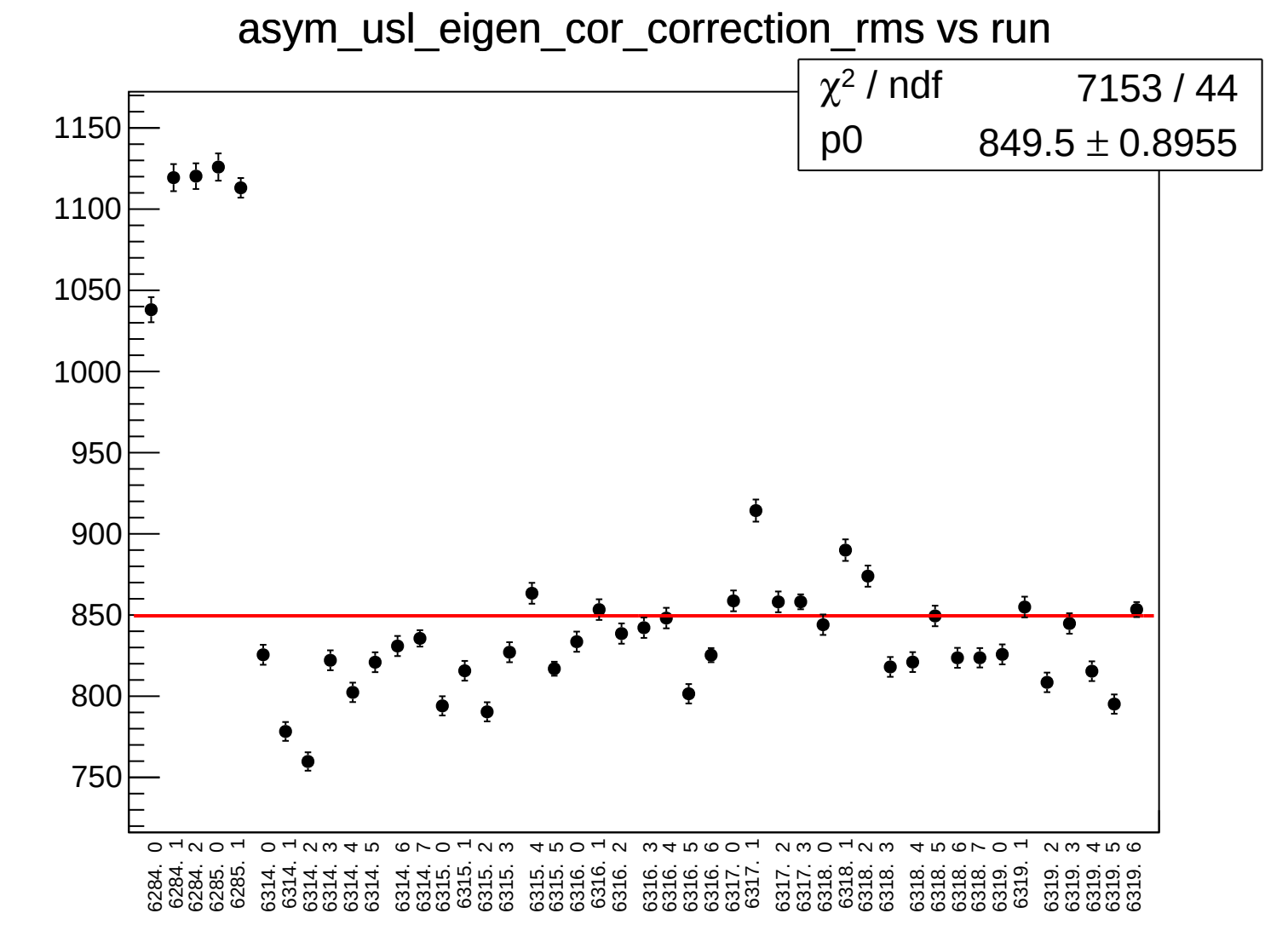
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −272.5
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004425
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_rms vs run
χ² / ndf 35.82 / 44
p0 1095 ± 1.149
1120
1110
1100
1090
1080
1070
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 43.79 / 44
p0 −1614 ± 1266
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4019
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0004667
Std Dev 0.9865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 7153 / 44
p0 849.5 ± 0.8955
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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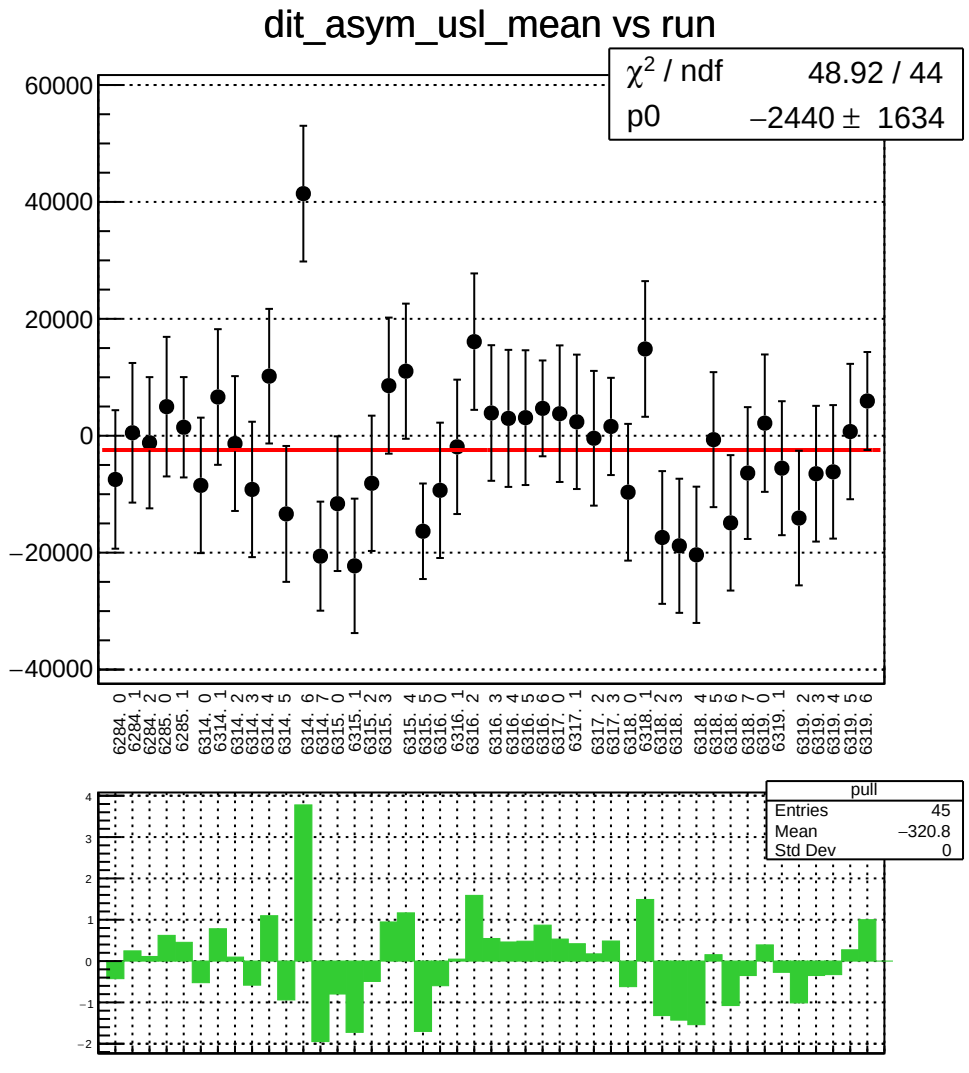
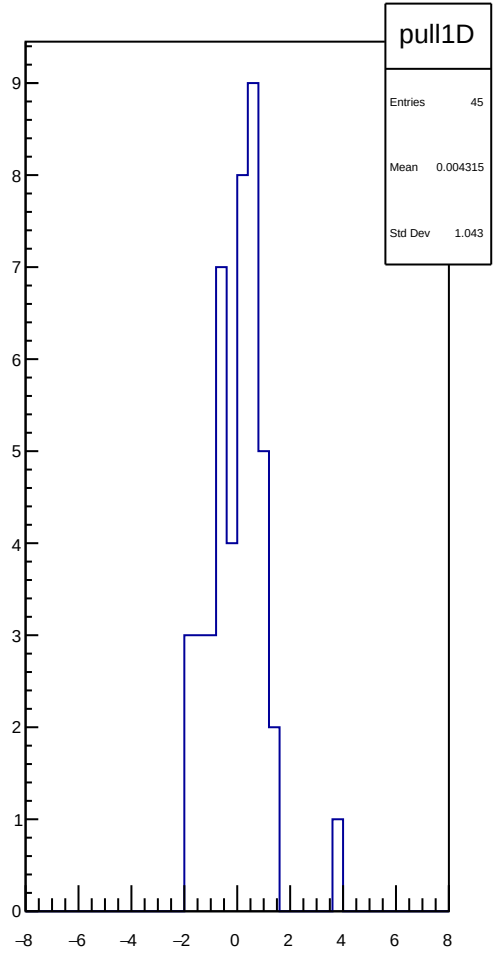
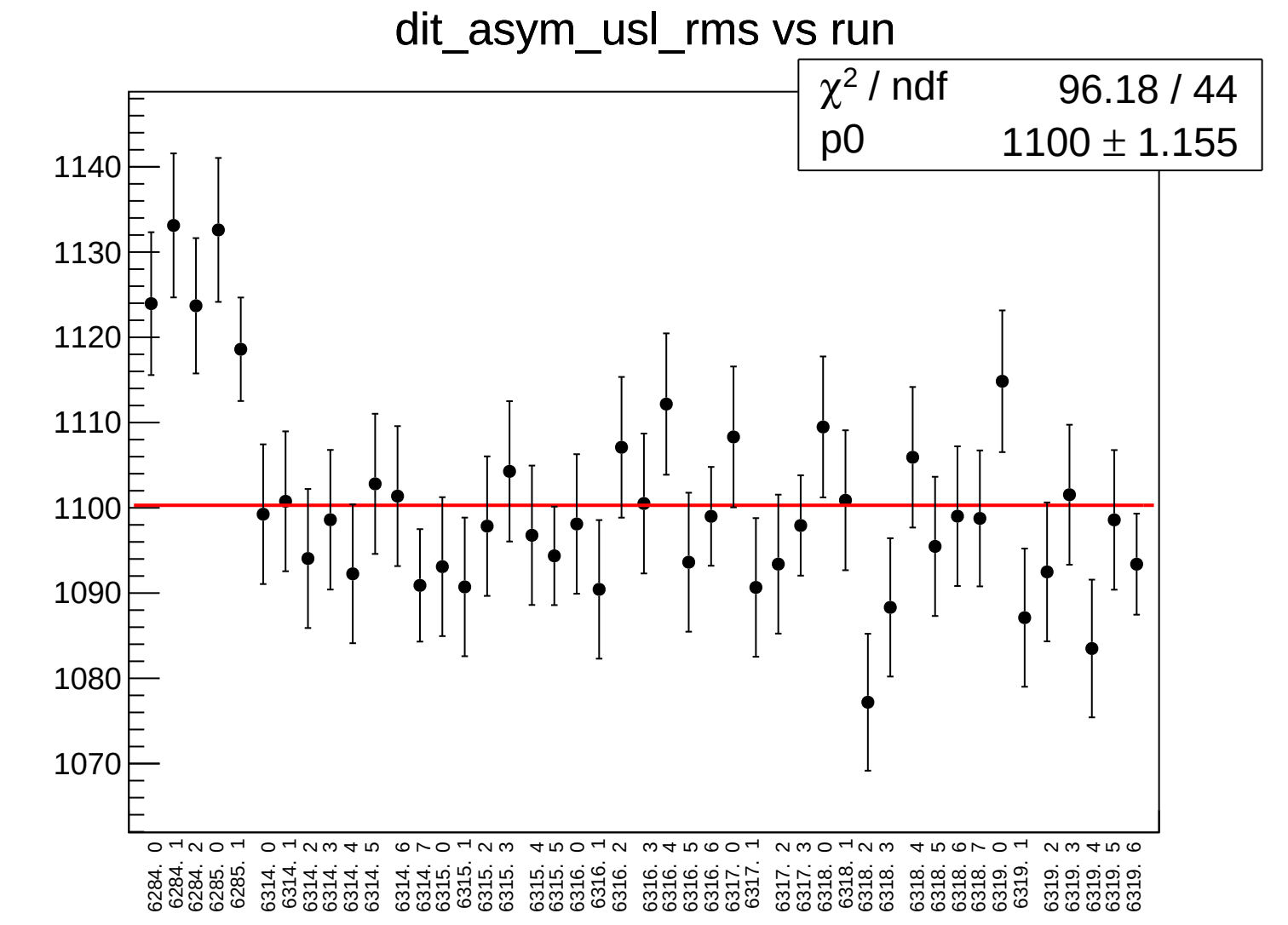
6319. 5
6319. 6


dit_asym_usl_mean vs run
χ² / ndf 48.92 / 44
p0 −2440 ± 1634
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −320.8
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004315
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_rms vs run
χ² / ndf 96.18 / 44
p0 1100 ± 1.155
1140
1130
1120
1110
1100
1090
1080
1070
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 6
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6319. 0
6319. 1
6319. 2
6319. 3
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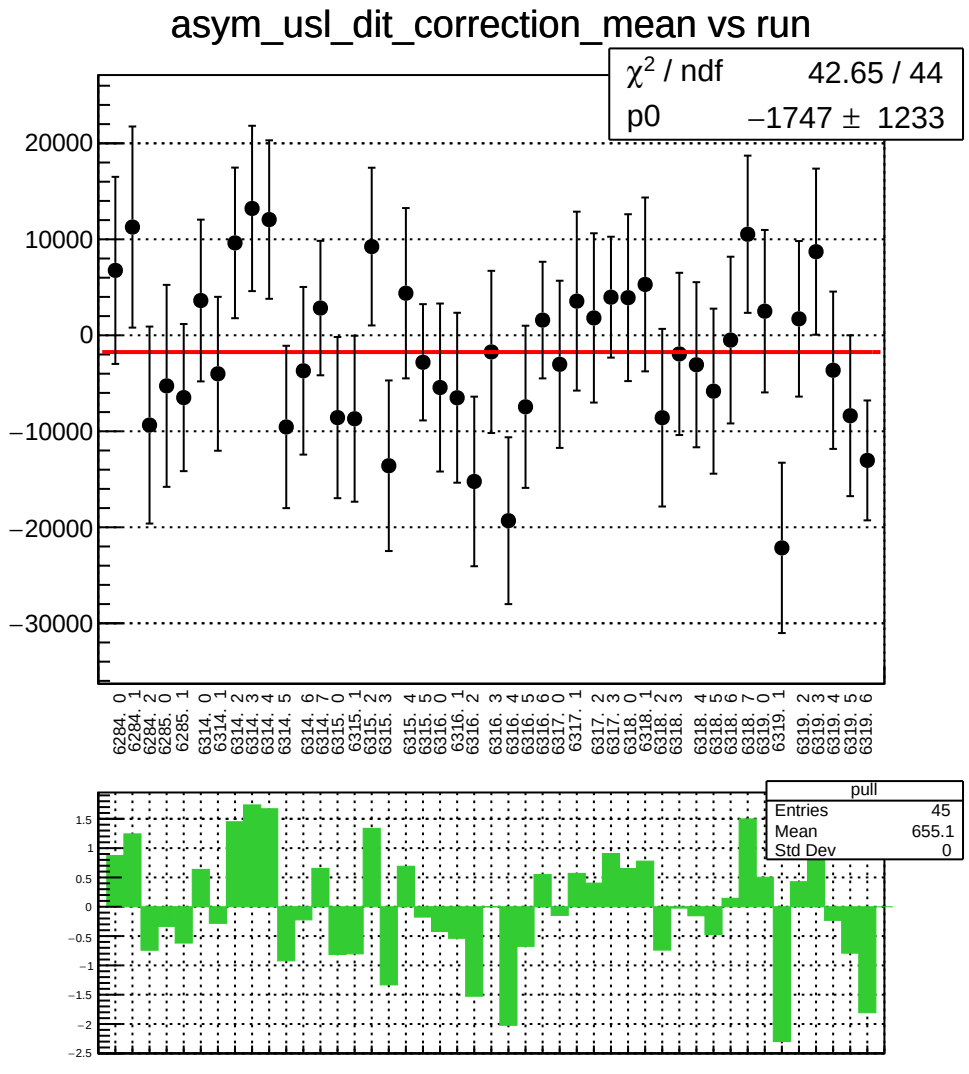
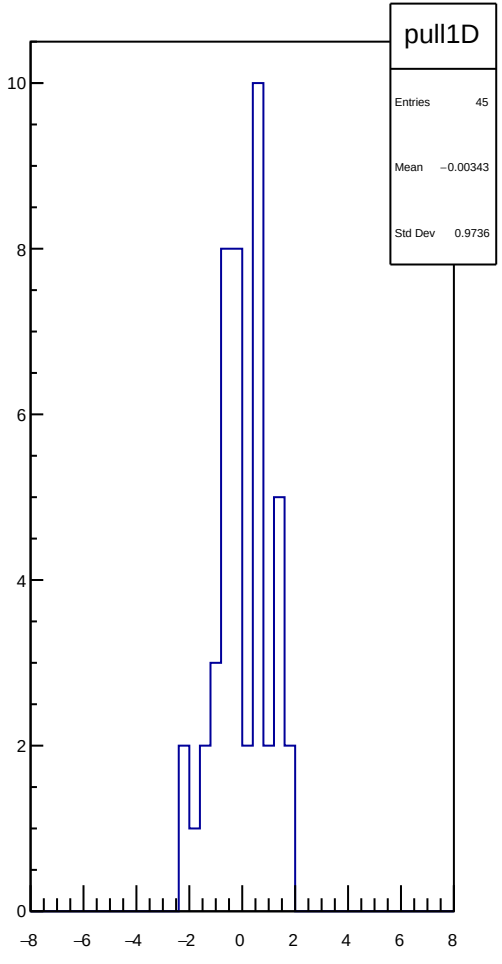
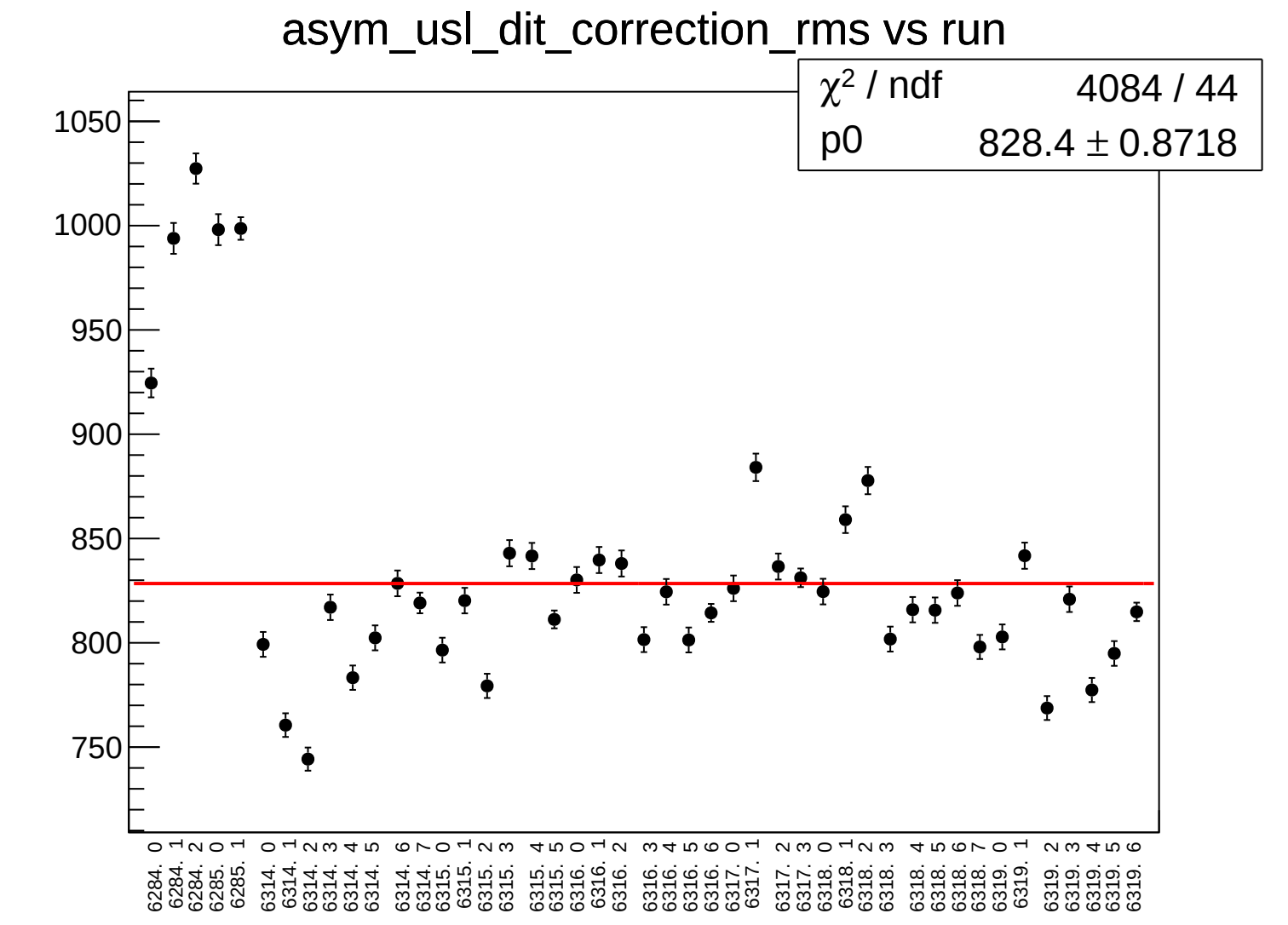
6319. 6


asym_usl_dit_correction_mean vs run
χ² / ndf 42.65 / 44
p0 −1747 ± 1233
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 655.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.00343
Std Dev 0.9736
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_dit_correction_rms vs run
χ² / ndf 4084 / 44
p0 828.4 ± 0.8718
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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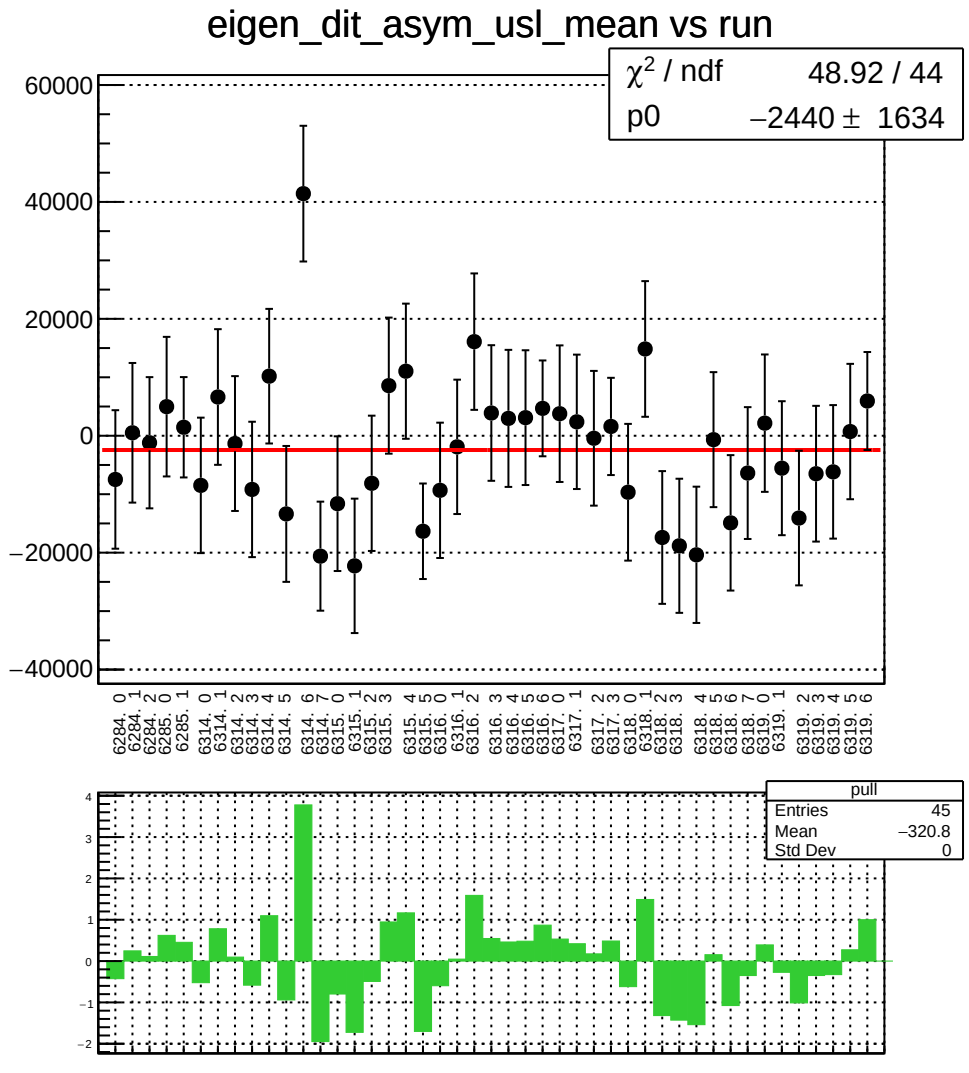
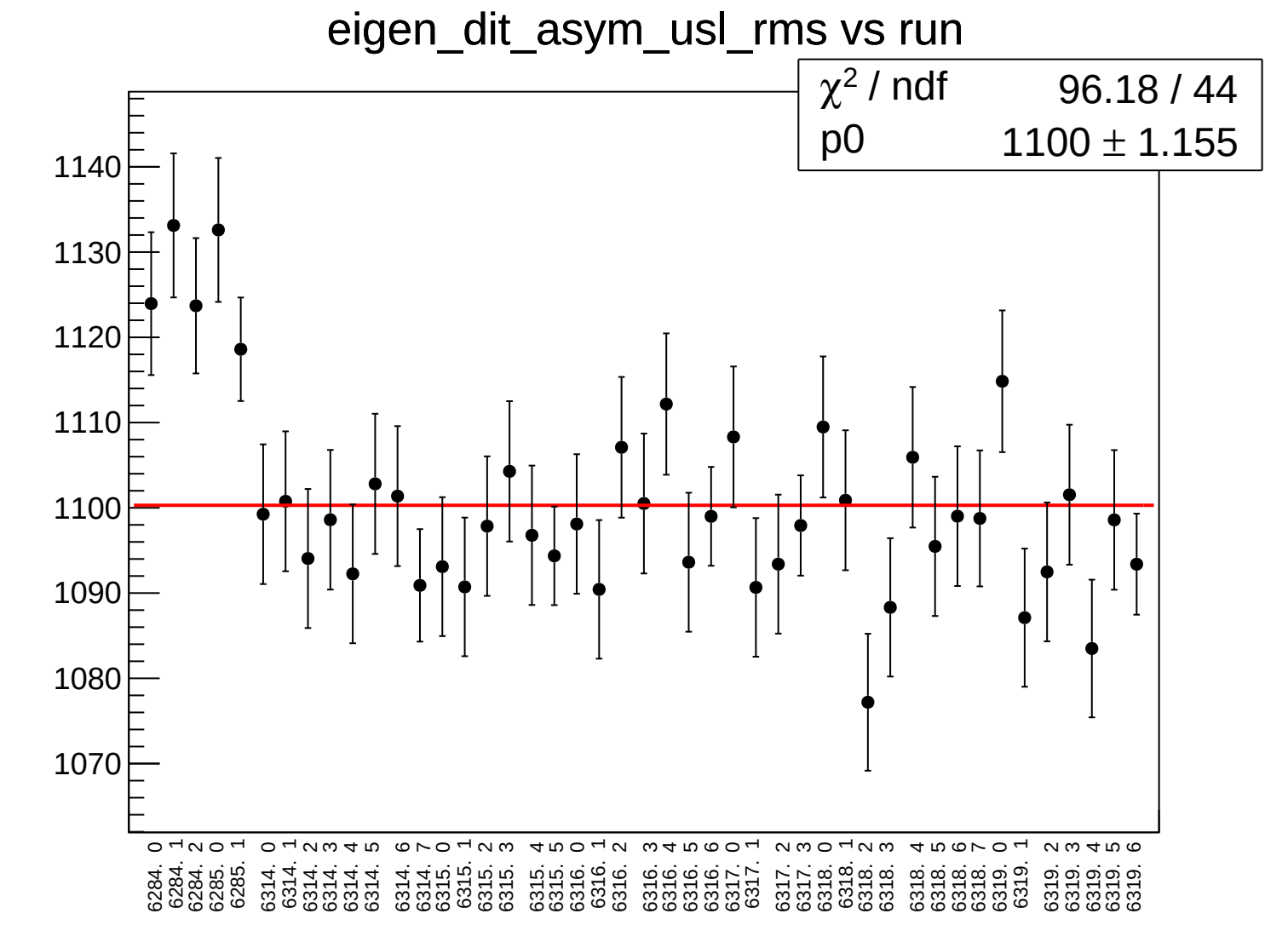
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_usl_mean vs run
χ² / ndf 48.92 / 44
p0 −2440 ± 1634
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −320.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.004315
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_rms vs run
χ² / ndf 96.18 / 44
p0 1100 ± 1.155
1140
1130
1120
1110
1100
1090
1080
1070
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
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6314. 4
6314. 5
6314. 6
6314. 7
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6319. 2
6319. 3
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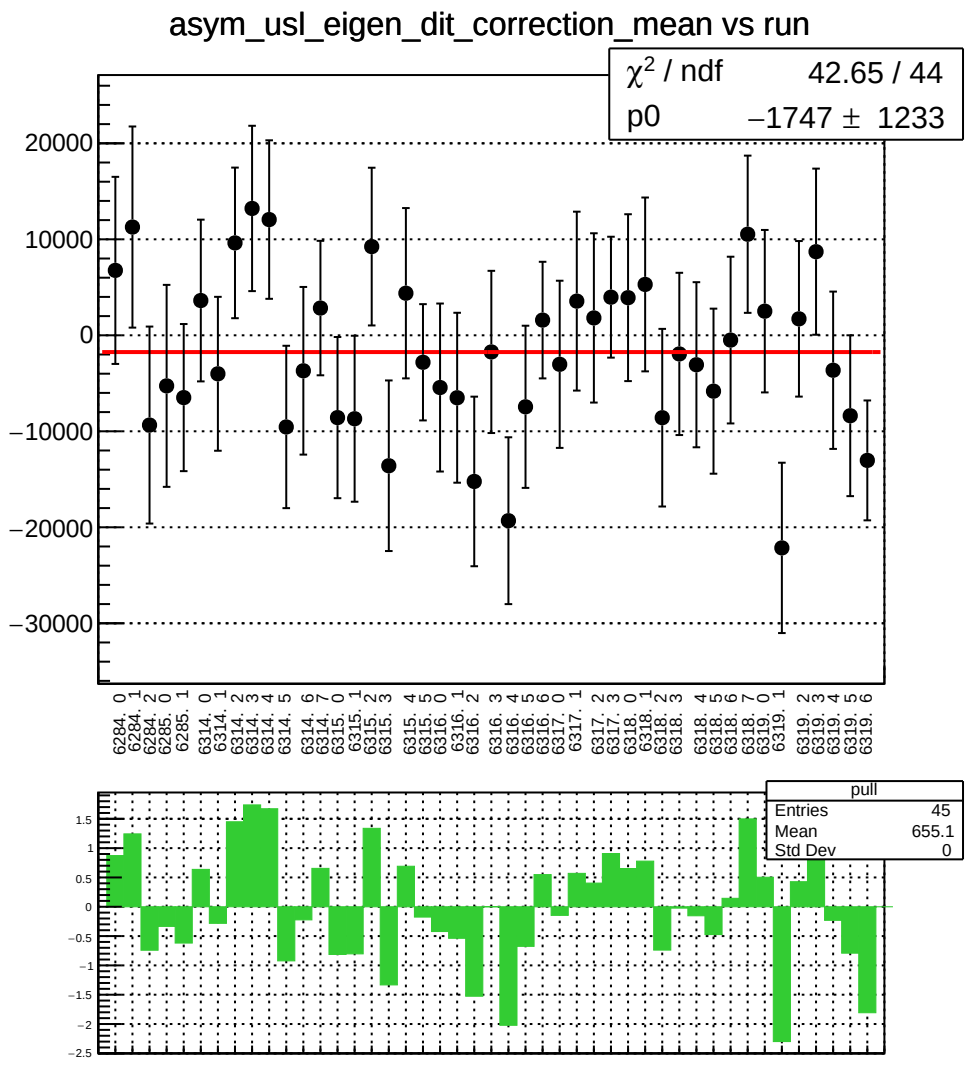
6319. 6


asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 42.65 / 44
p0 −1747 ± 1233
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6316. 2
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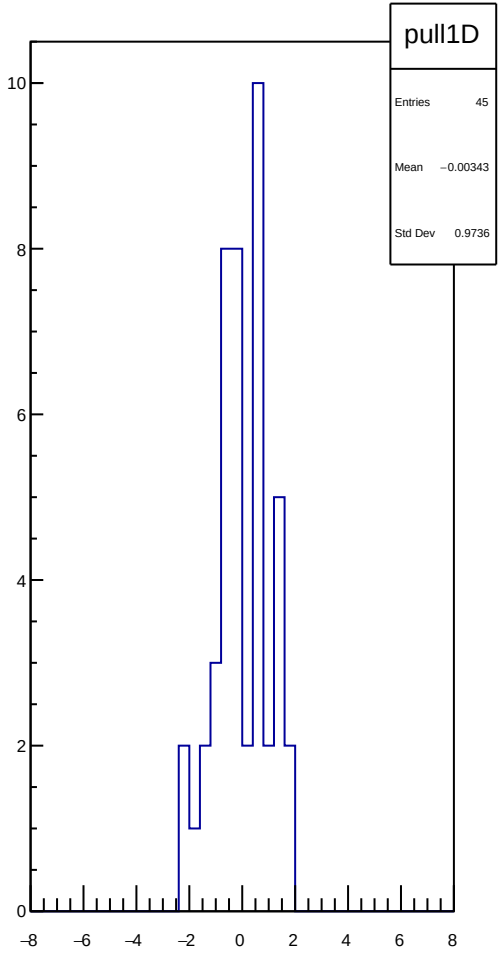
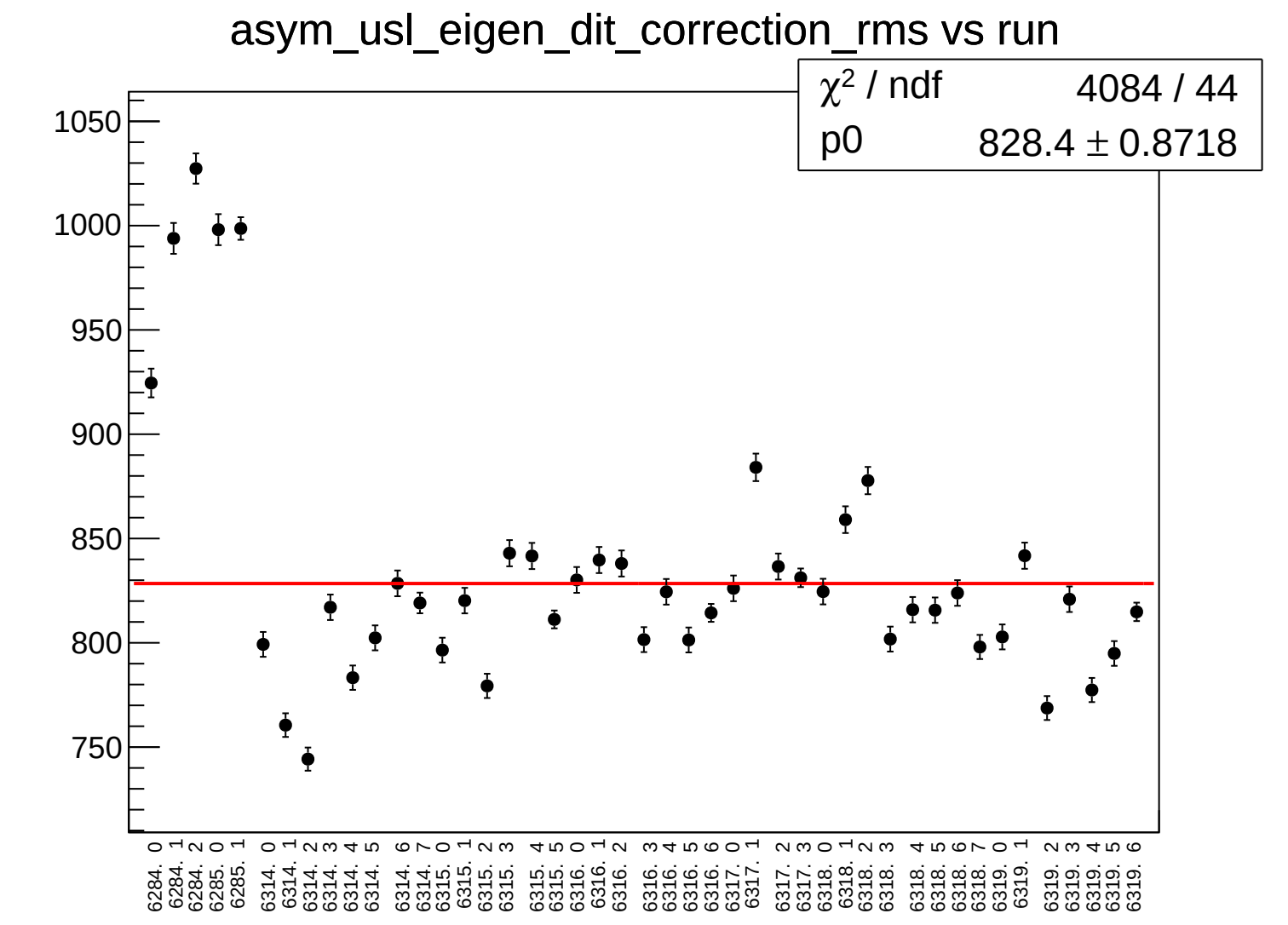
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 655.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.00343
Std Dev 0.9736
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4084 / 44
p0 828.4 ± 0.8718
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6317. 3
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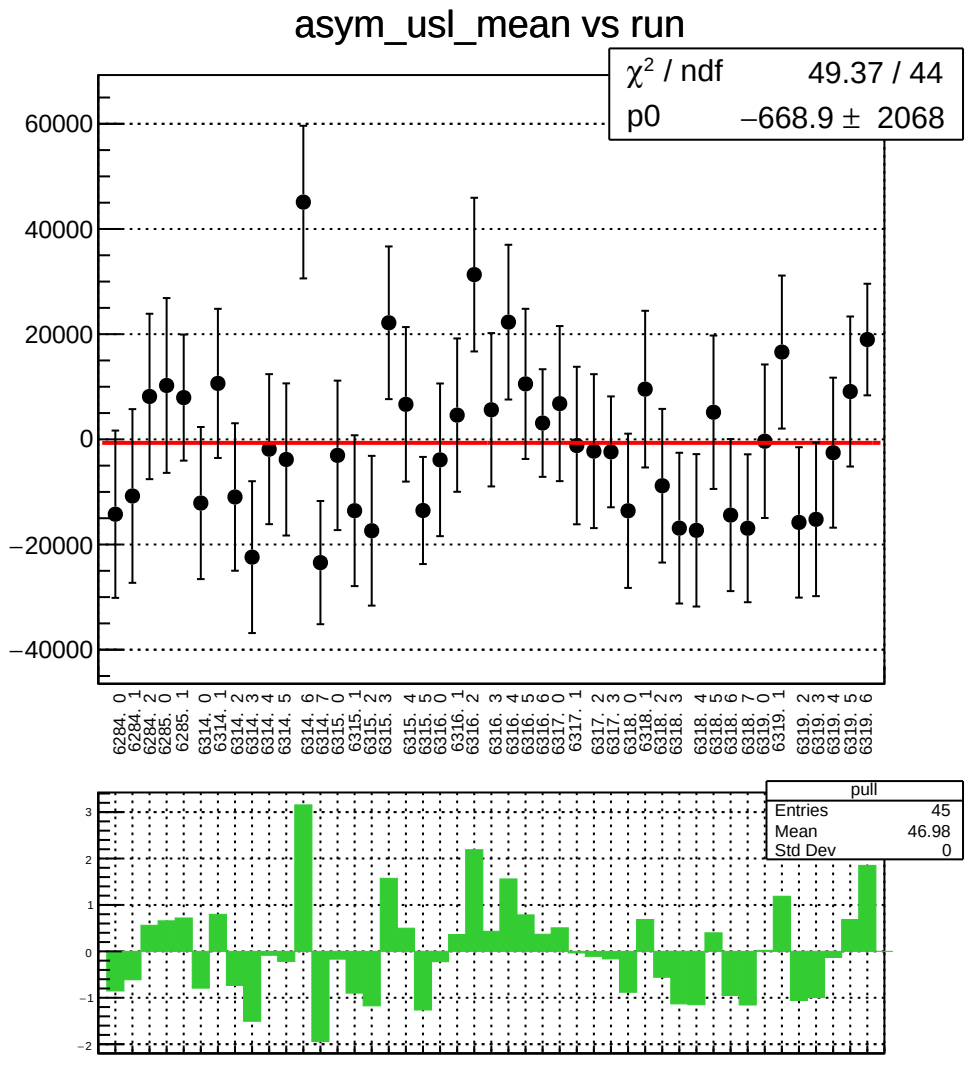
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_mean vs run
χ² / ndf 49.37 / 44
p0 −668.9 ± 2068
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
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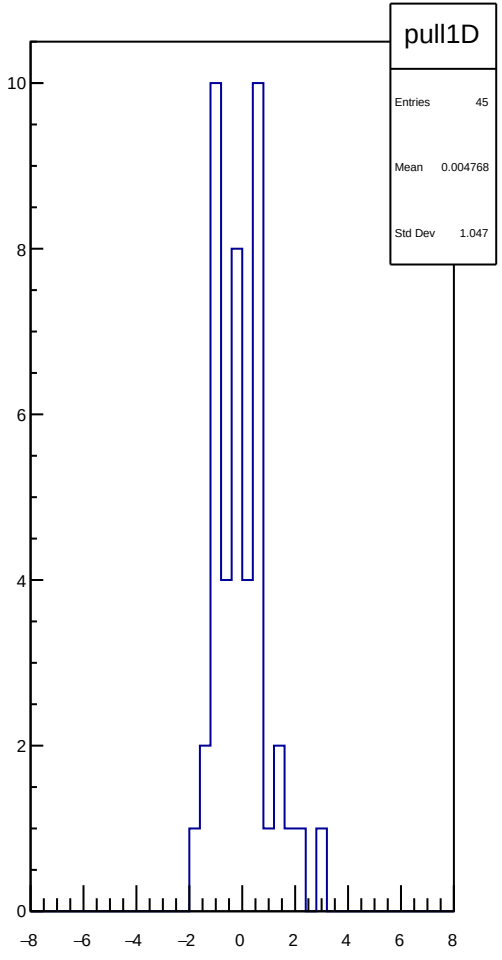
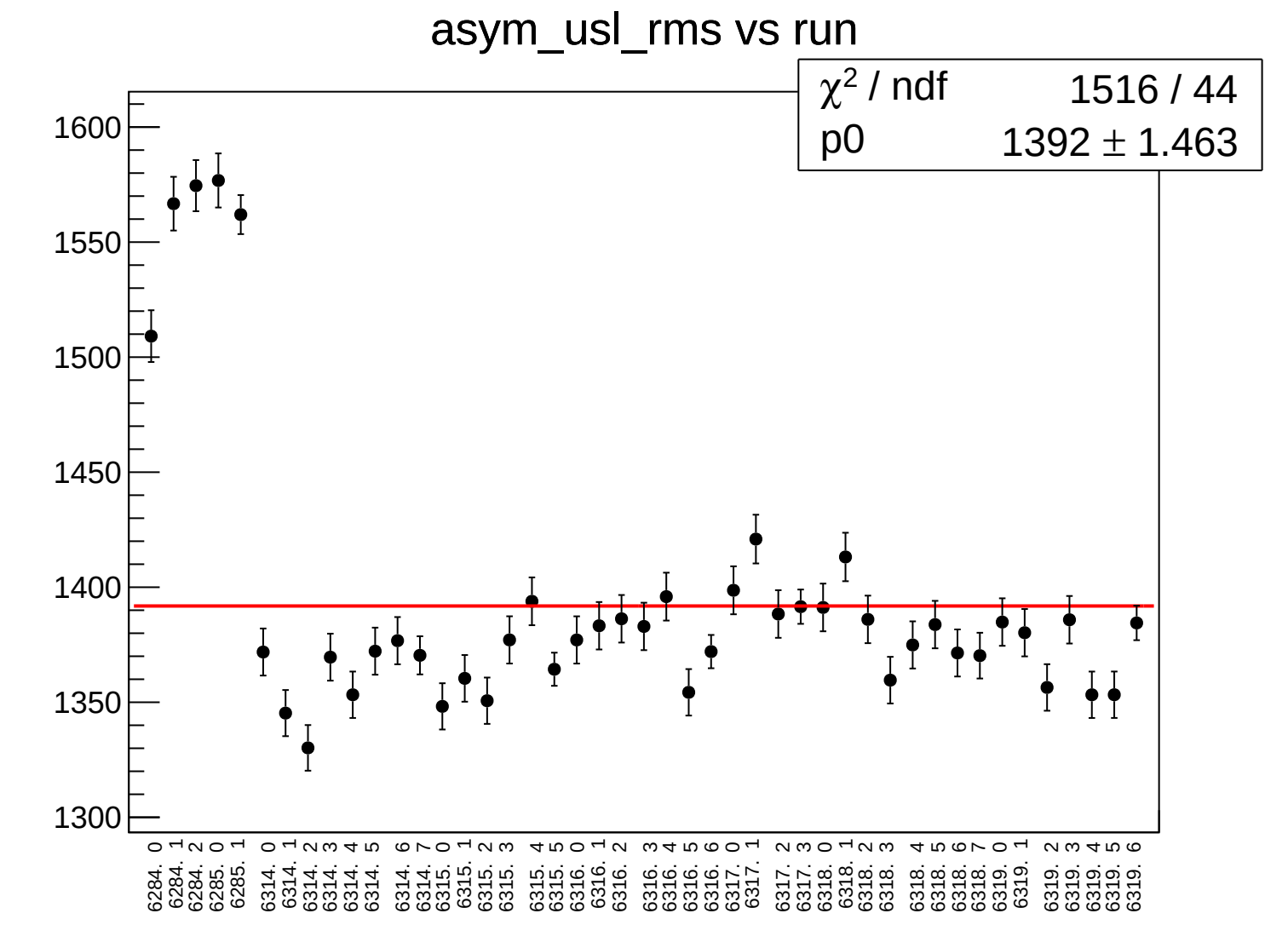
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 46.98
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.004768
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 1516 / 44
p0 1392 ± 1.463
1600
1550
1500
1450
1400
1350
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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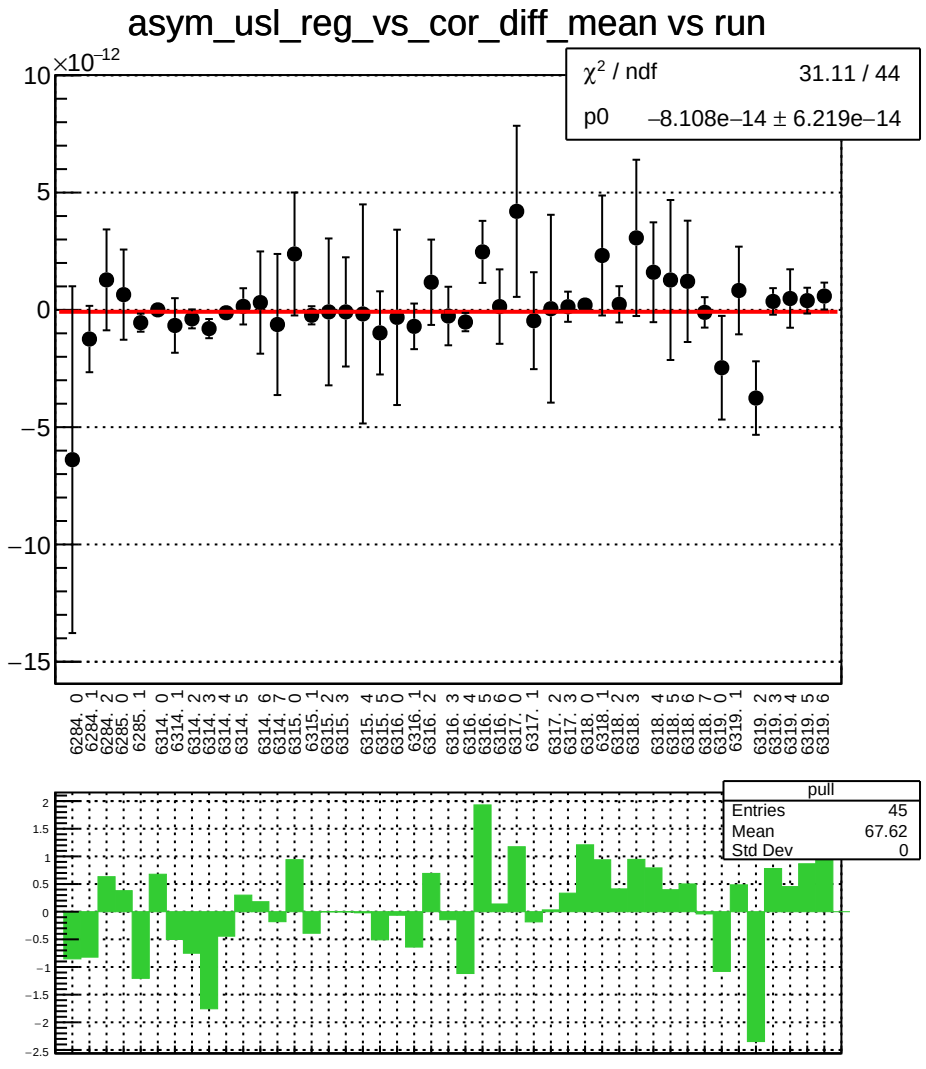
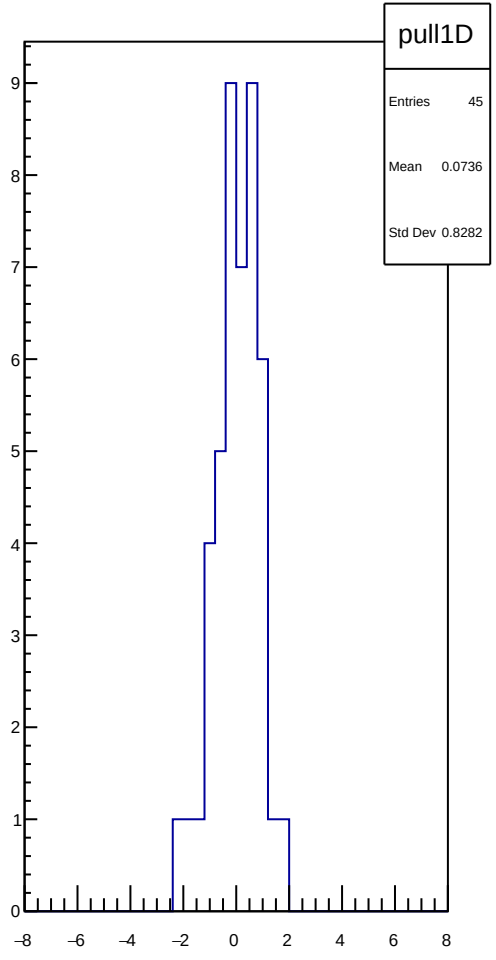
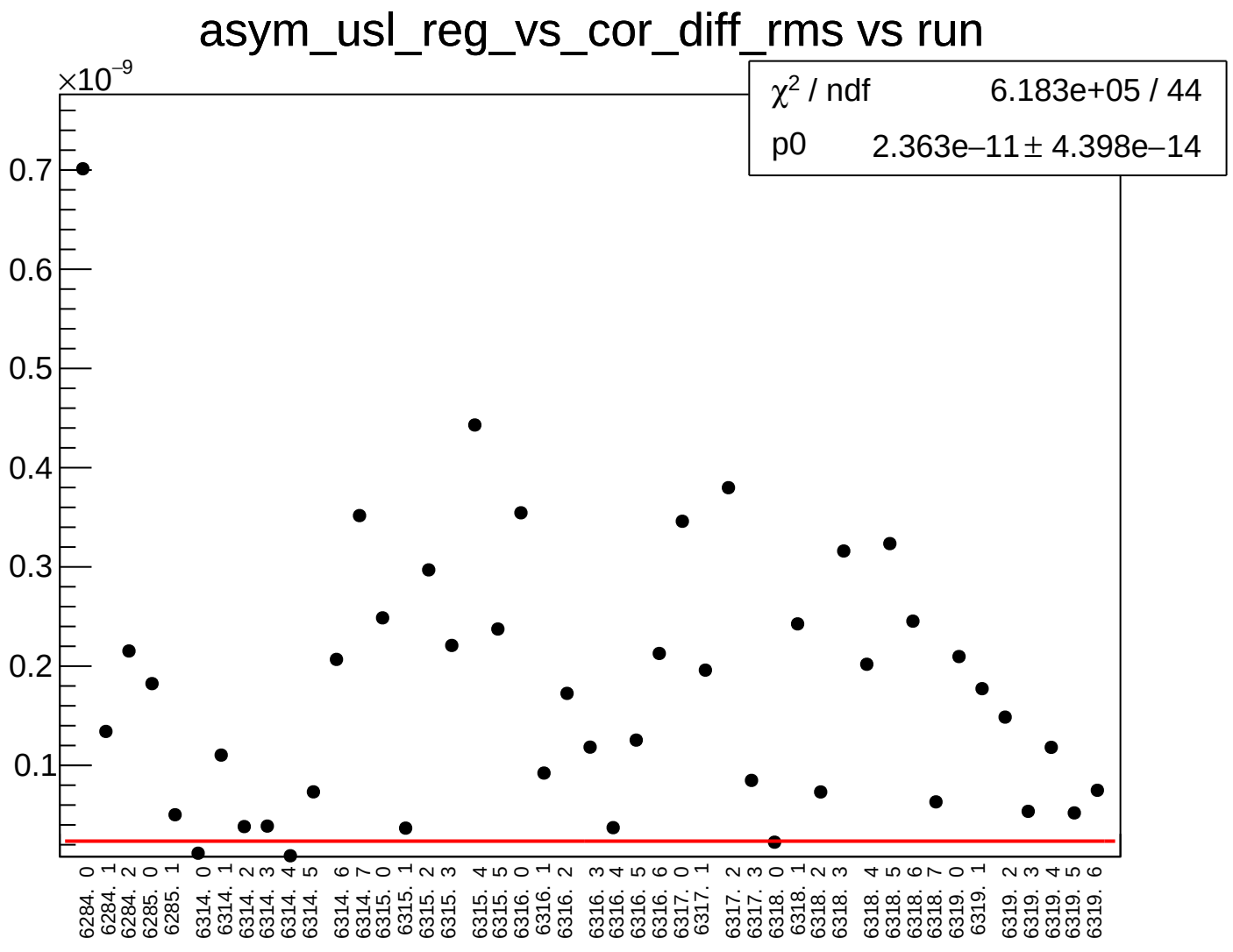
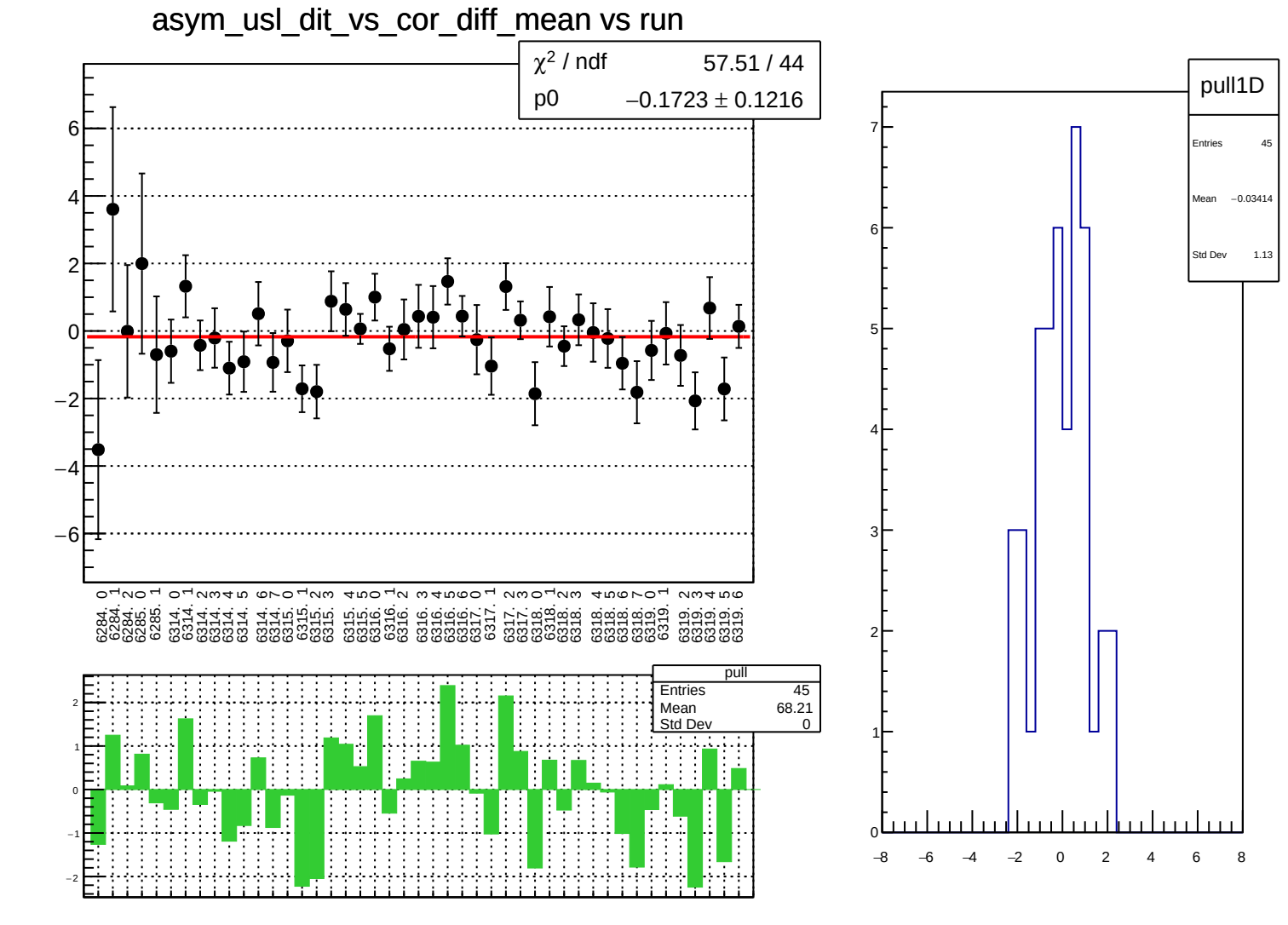
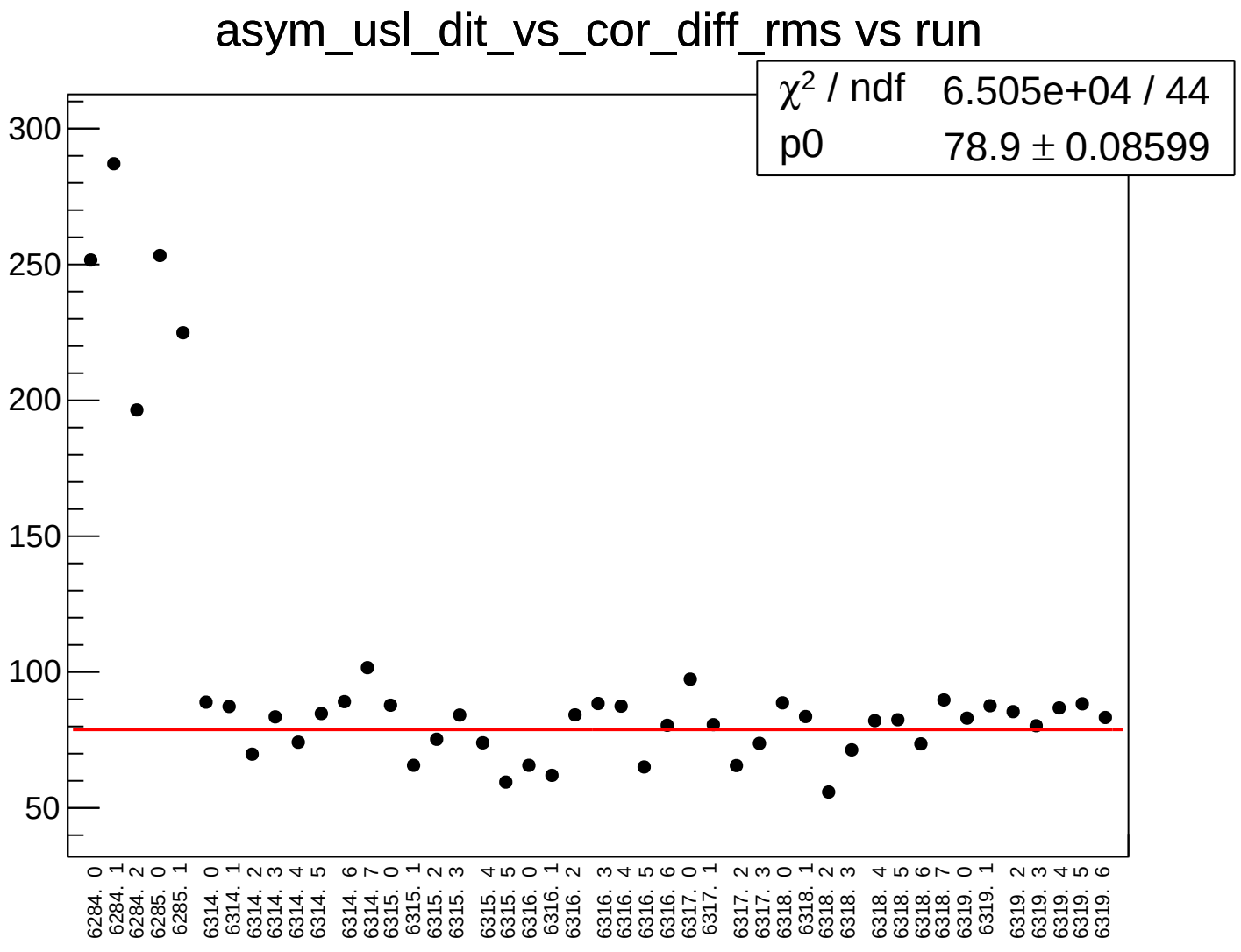
6319. 5
6319. 6

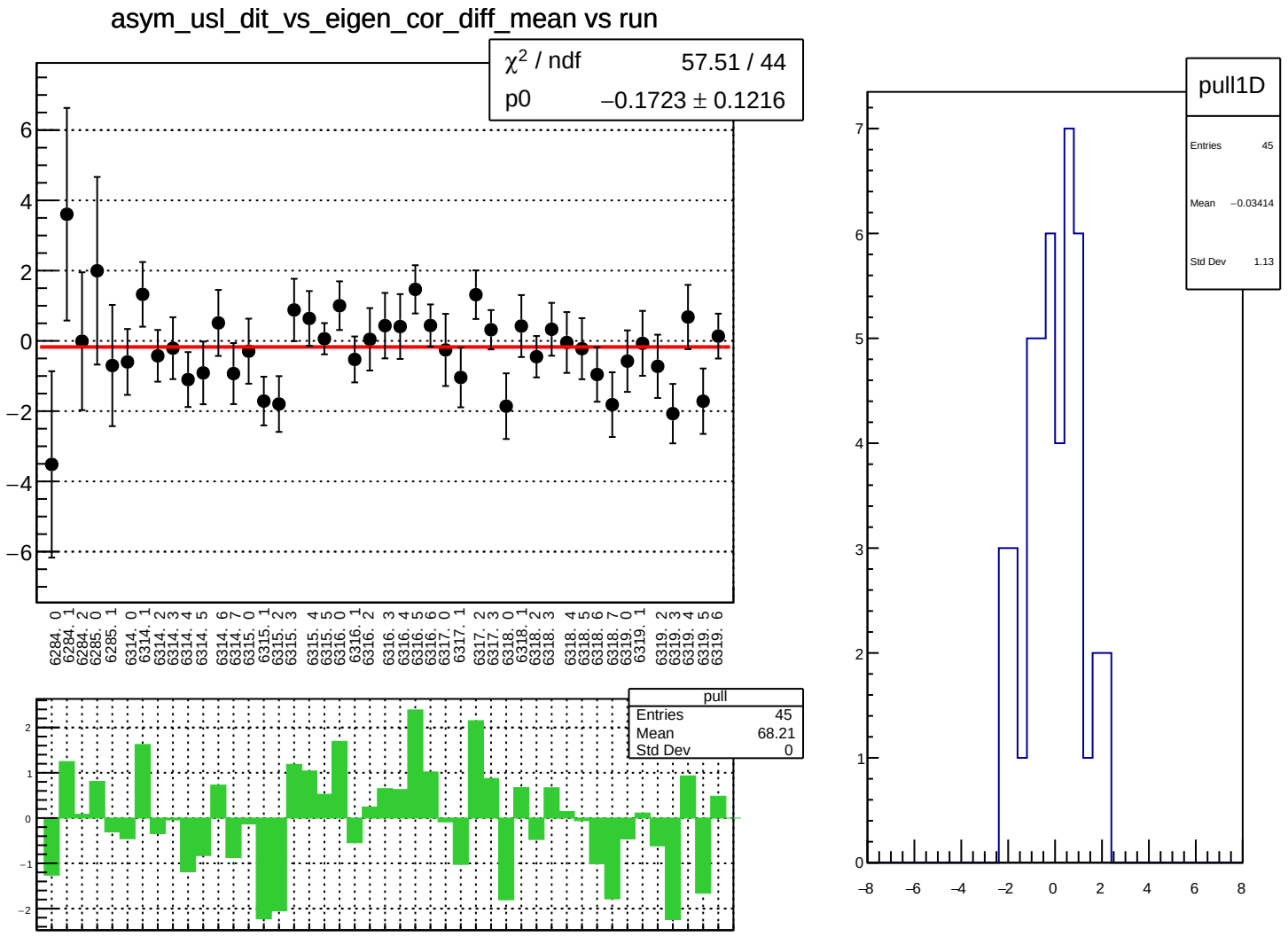

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.11 / 44
p0 −8.108e−14 ± 6.219e−14
pull
Entries 45
Mean 67.62
Std Dev 0

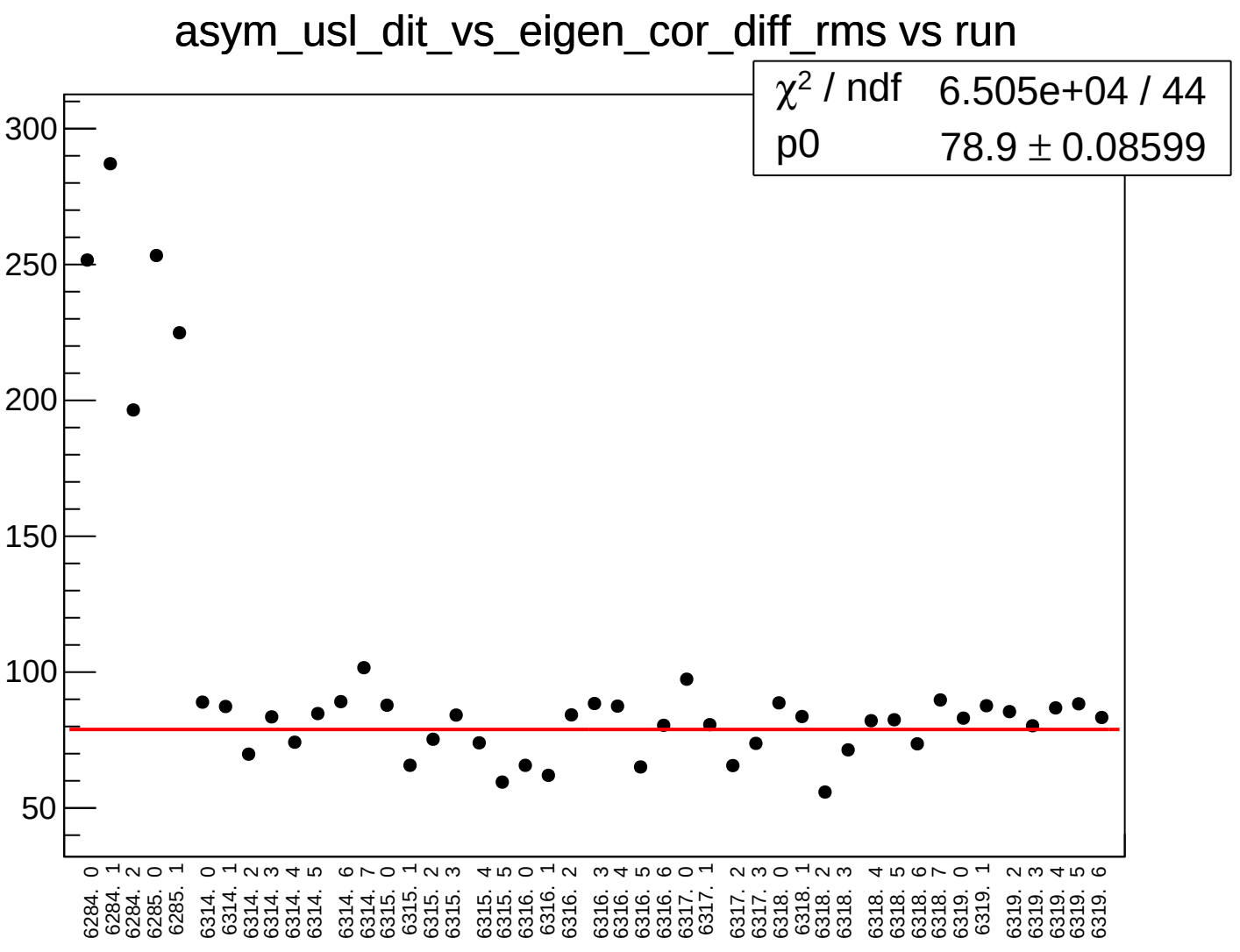

pull1D
Entries 45
Mean 0.0736
Std Dev 0.8282


asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.183e+05 / 44
p0 2.363e−11 ± 4.398e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

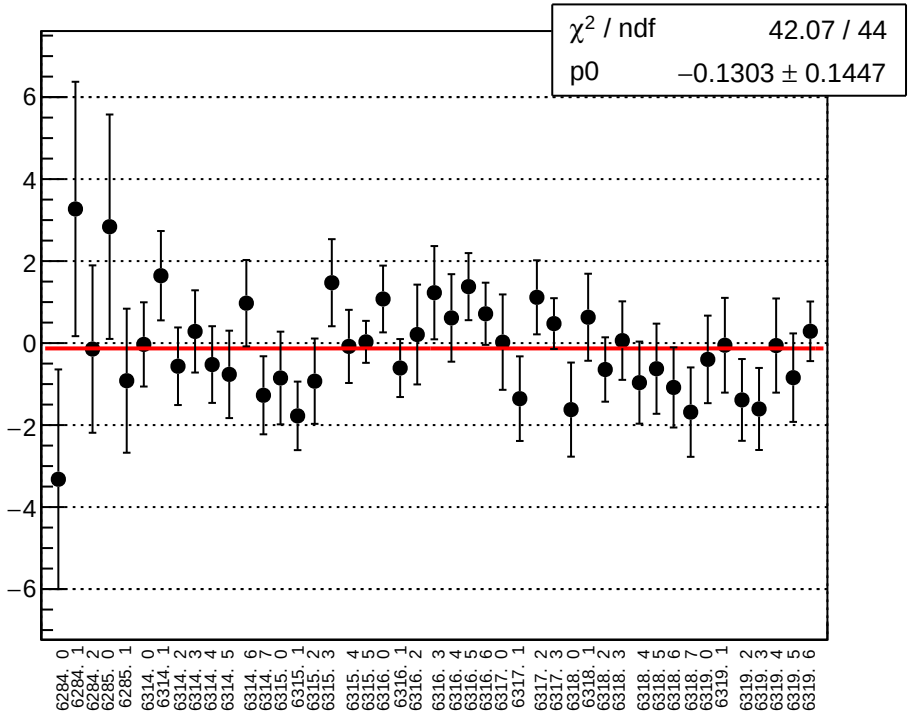

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 57.51 / 44
p0 −0.1723 ± 0.1216
pull
Entries 45
Mean 68.21
Std Dev 0
pull1D
Entries 45
Mean −0.03414
Std Dev 1.13

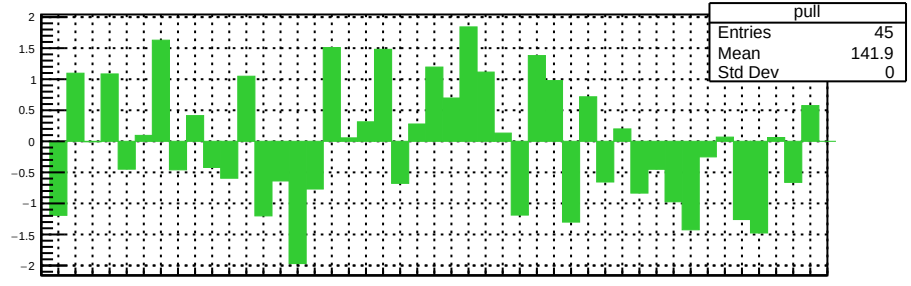

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 6.505e+04 / 44
p0 78.9 ± 0.08599
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

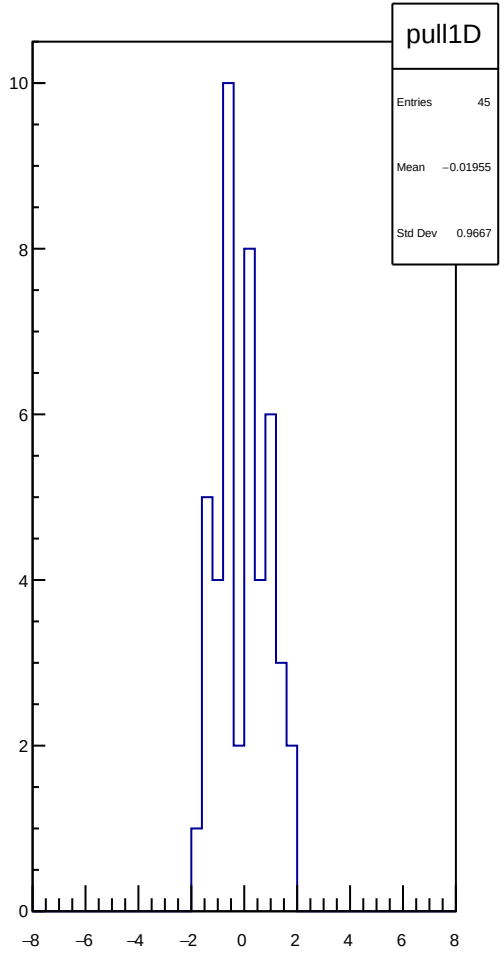

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.51 / 44
p0 −0.1723 ± 0.1216
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 68.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03414
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

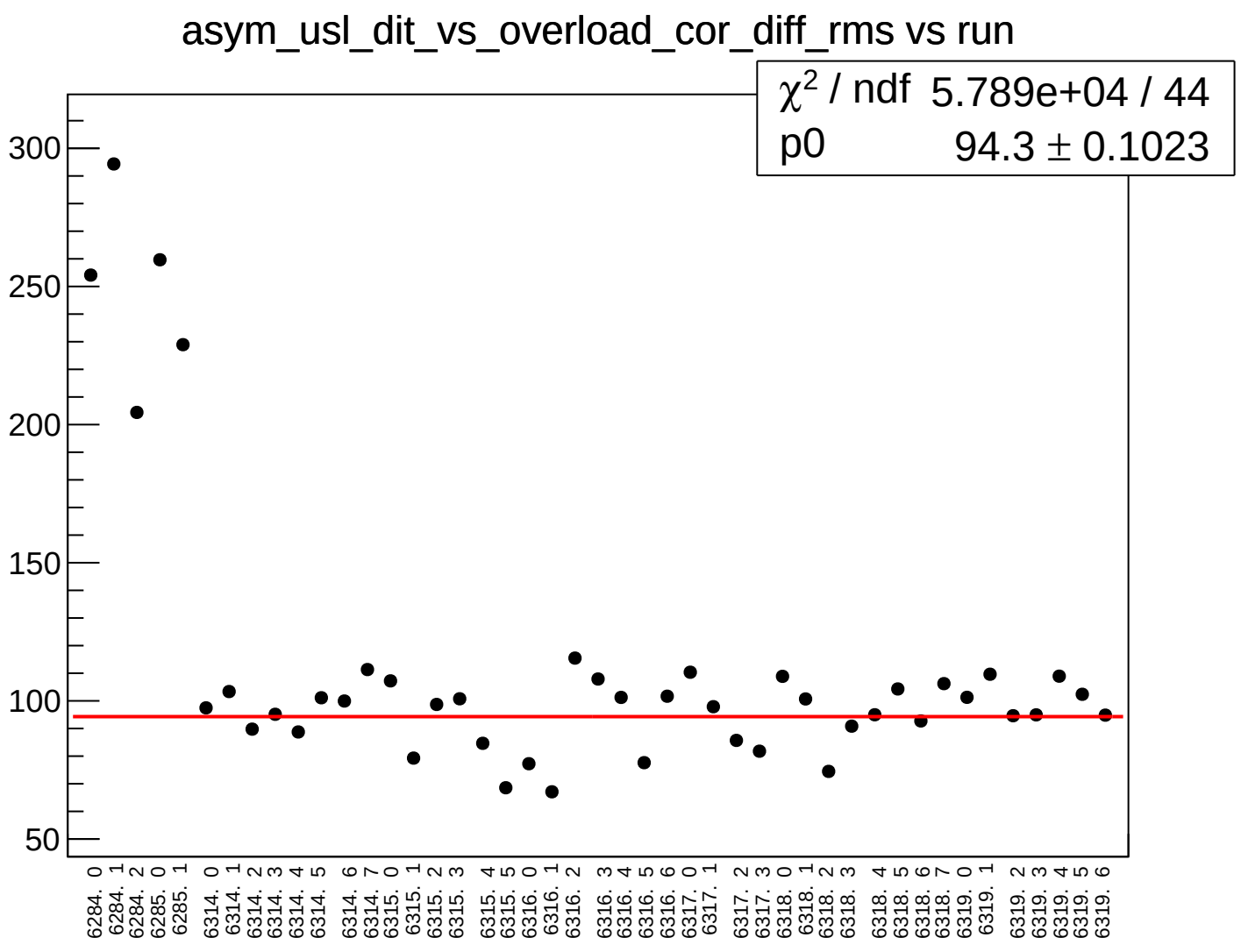

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.505e+04 / 44
p0 78.9 ± 0.08599
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

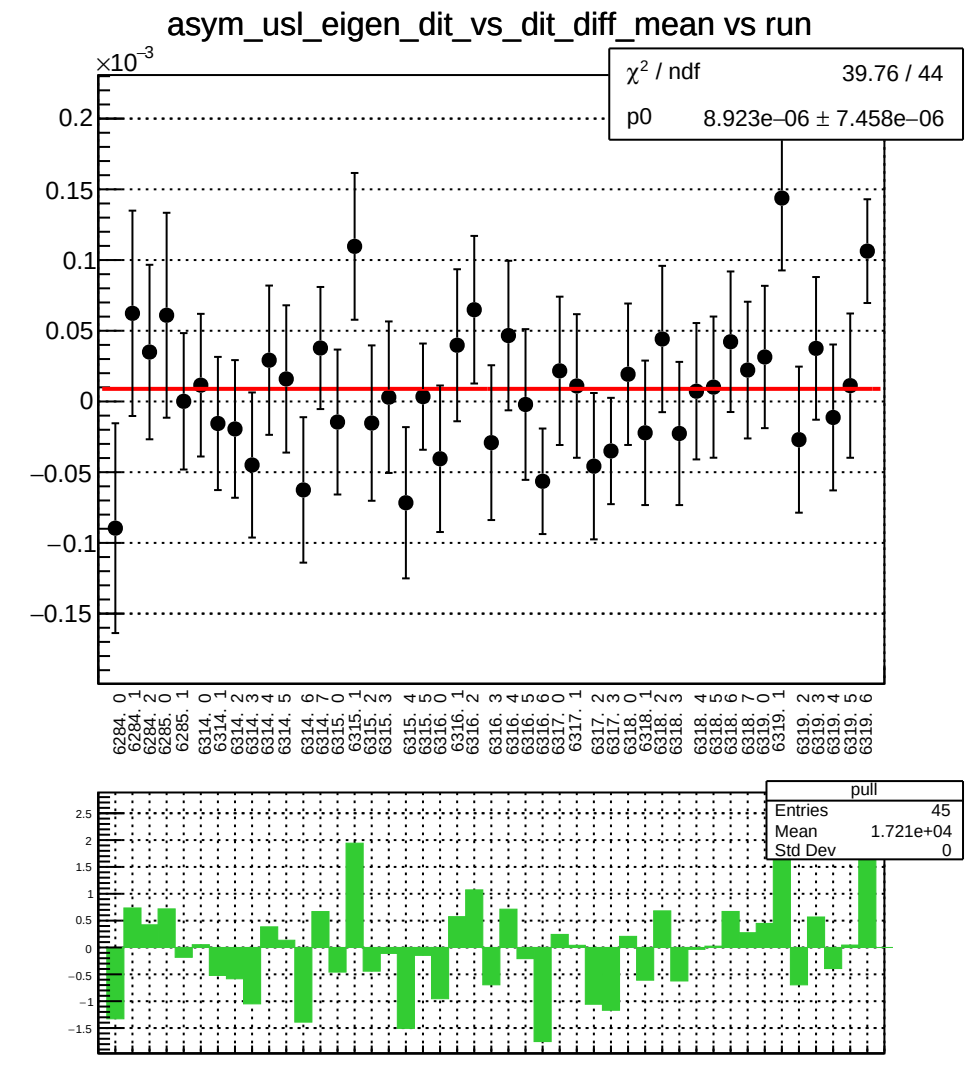
asym_usl_dit_vs_overload_cor_diff_mean vs run

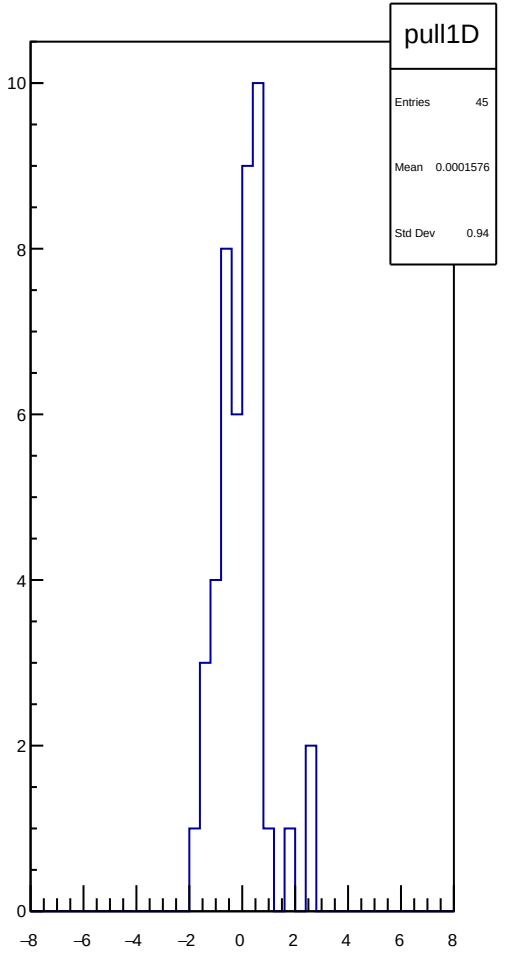


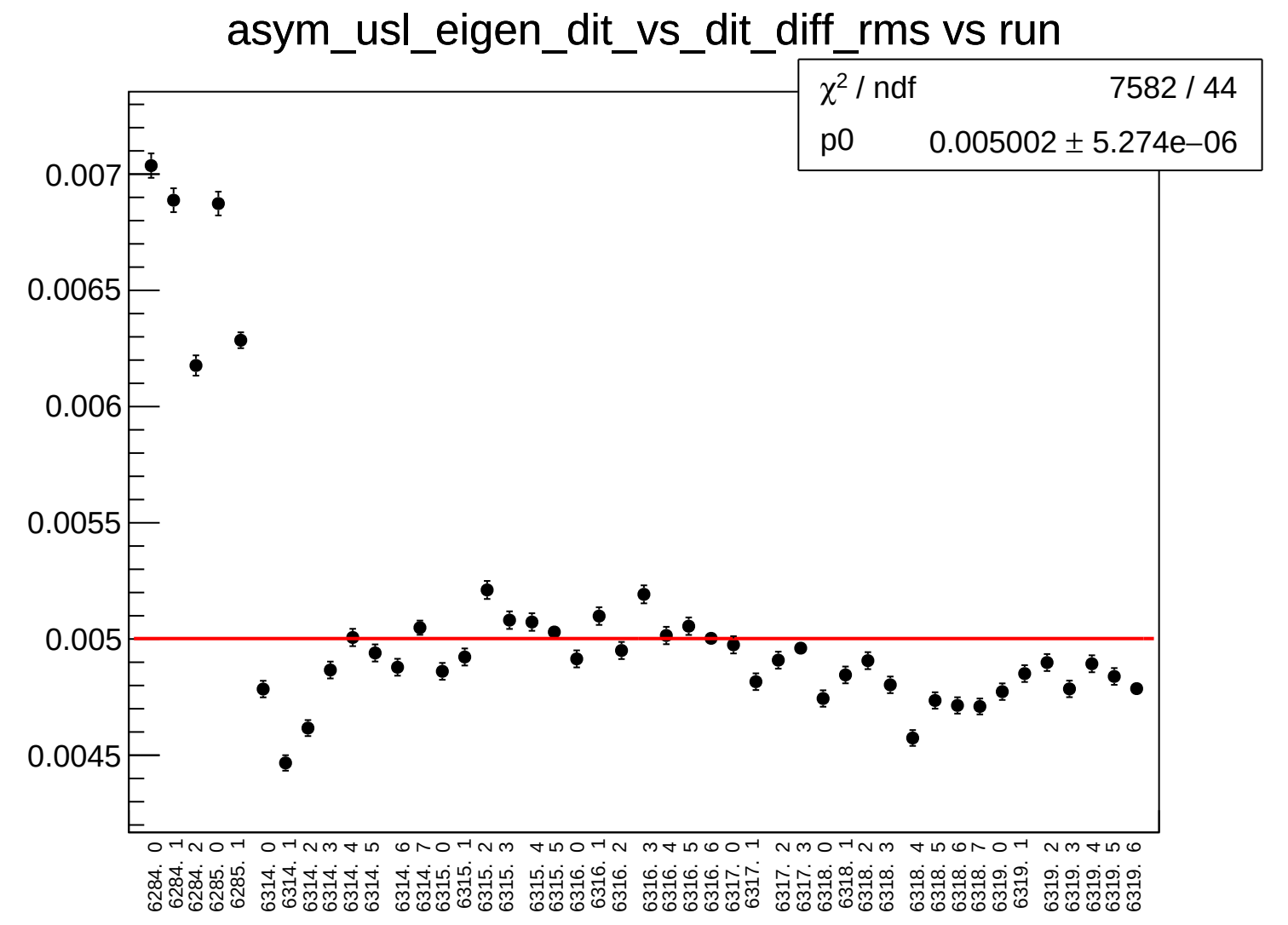


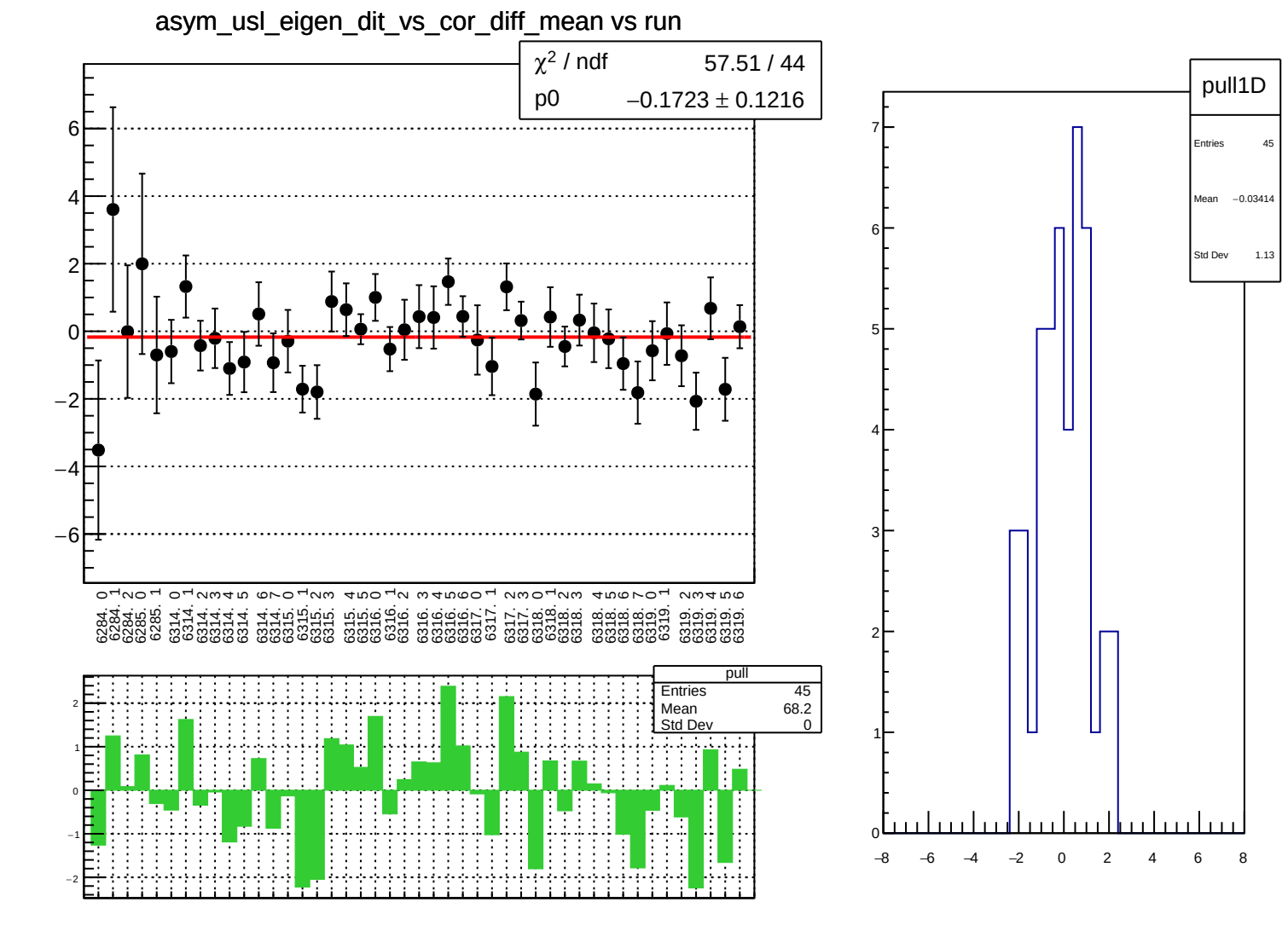


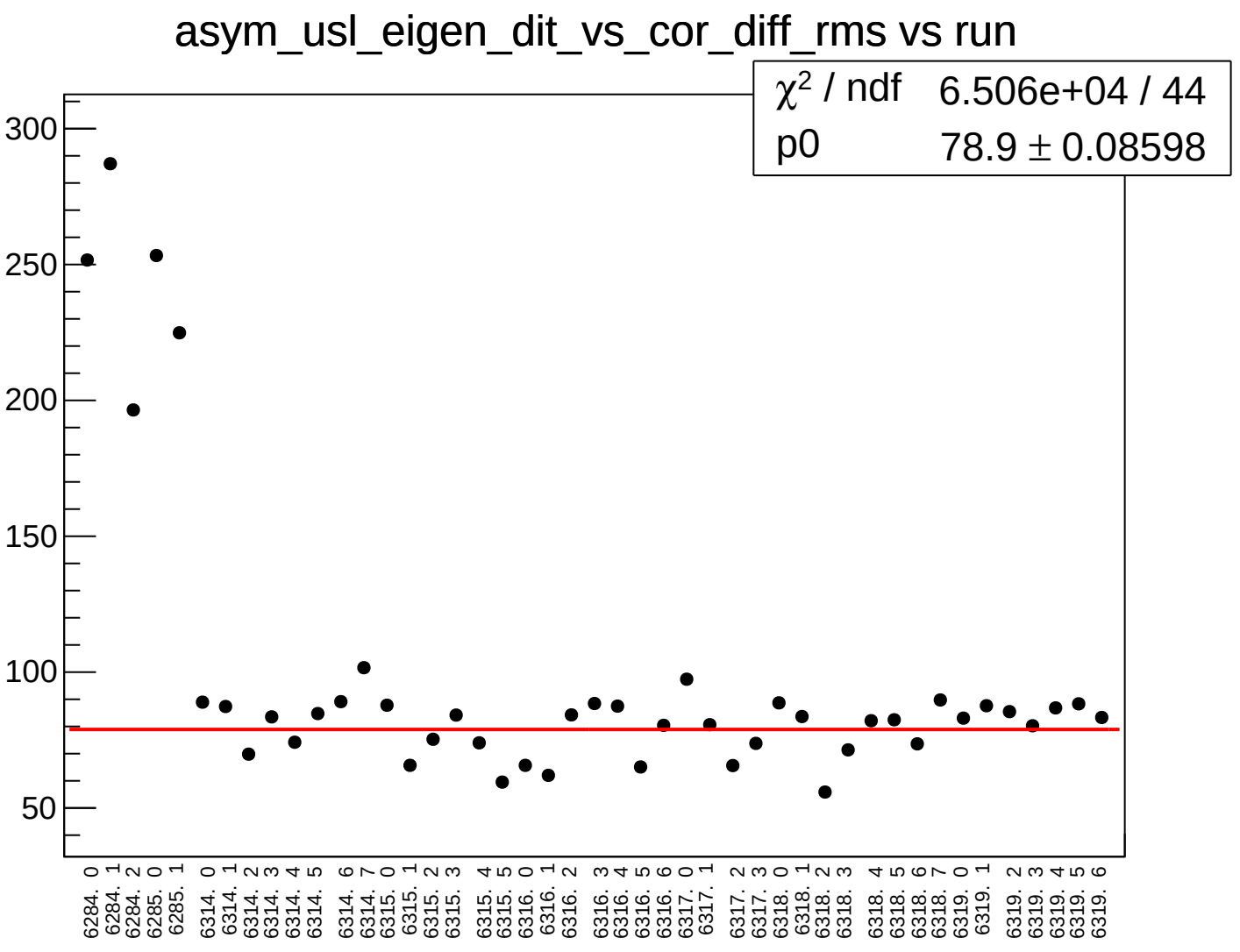

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.789e+04 / 44
p0 94.3 ± 0.1023
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

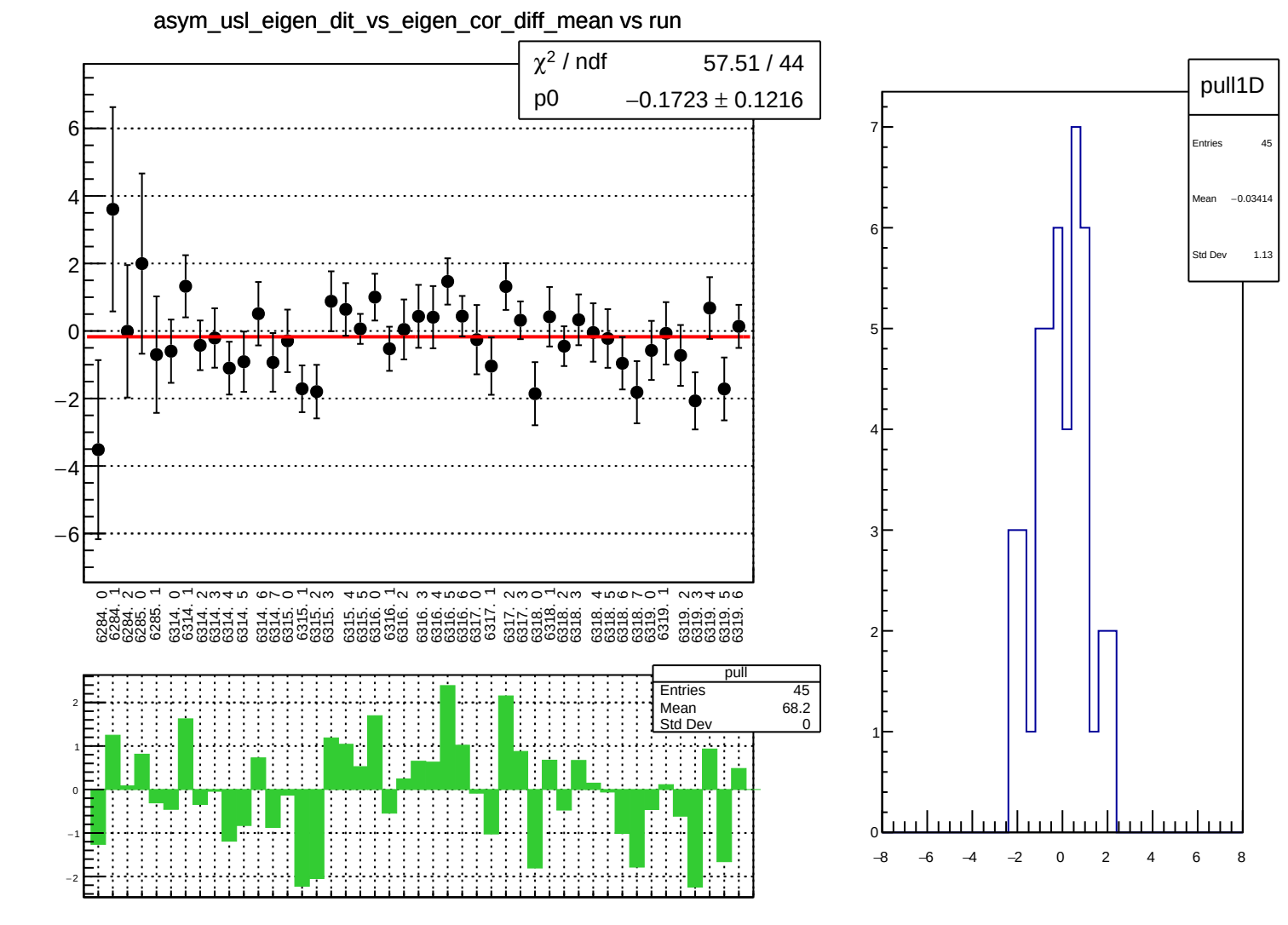

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.76 / 44
p0 8.923e−06 ± 7.458e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.721e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

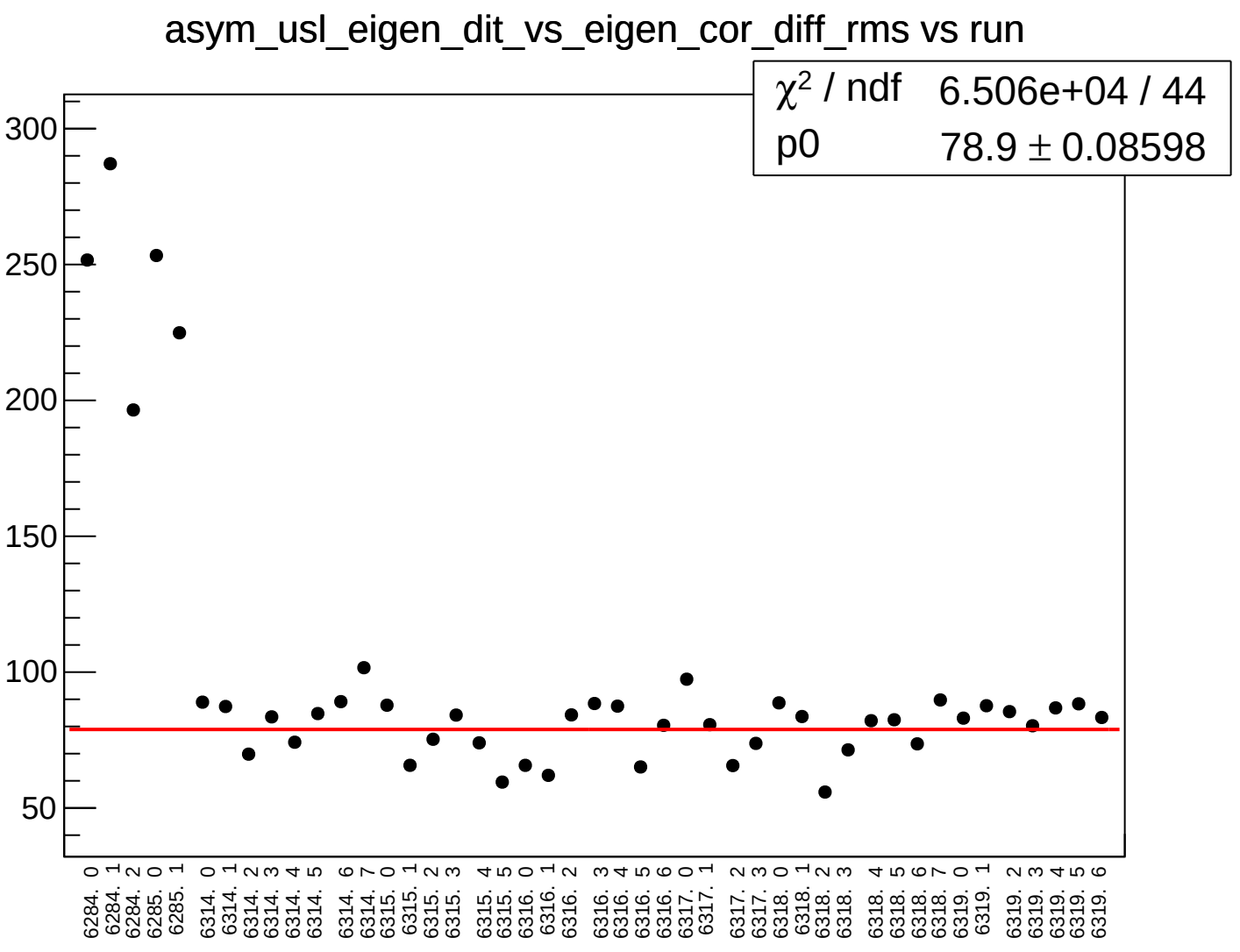

pull1D
Entries 45
Mean 0.0001576
Std Dev 0.94
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

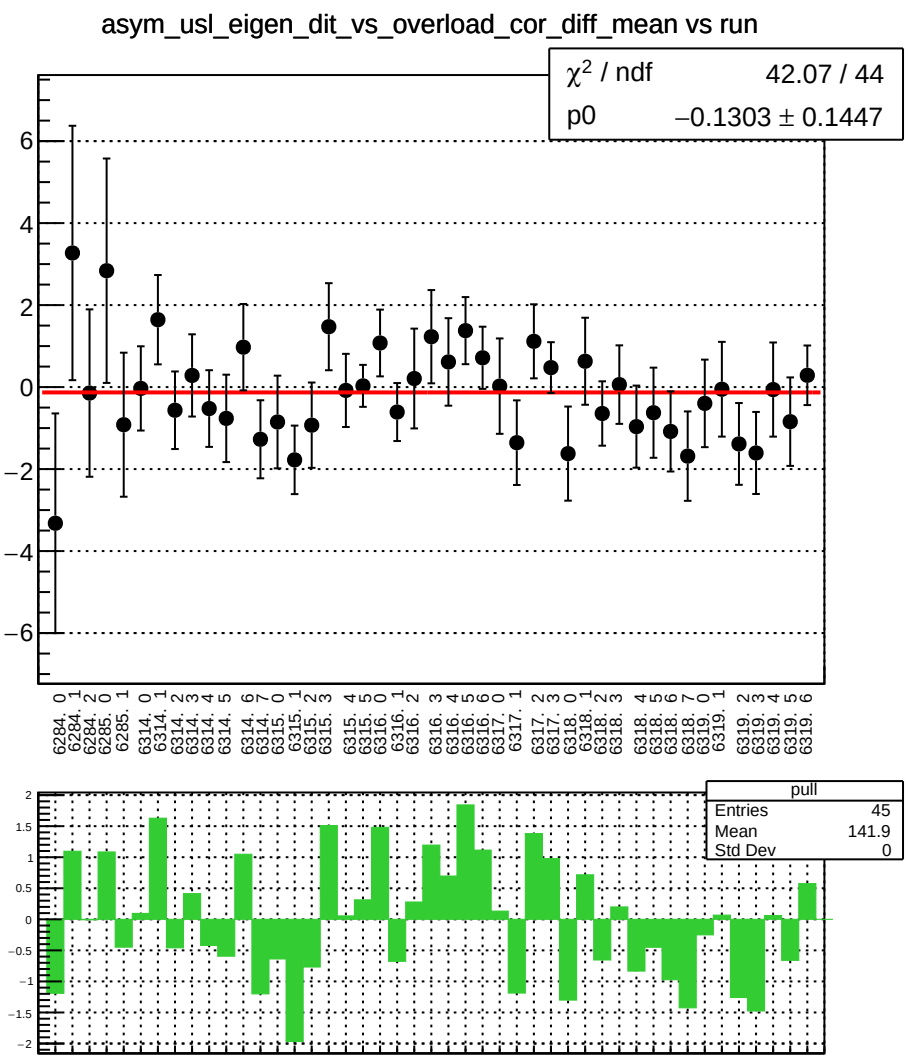

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7582 / 44
p0 0.005002 ± 5.274e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

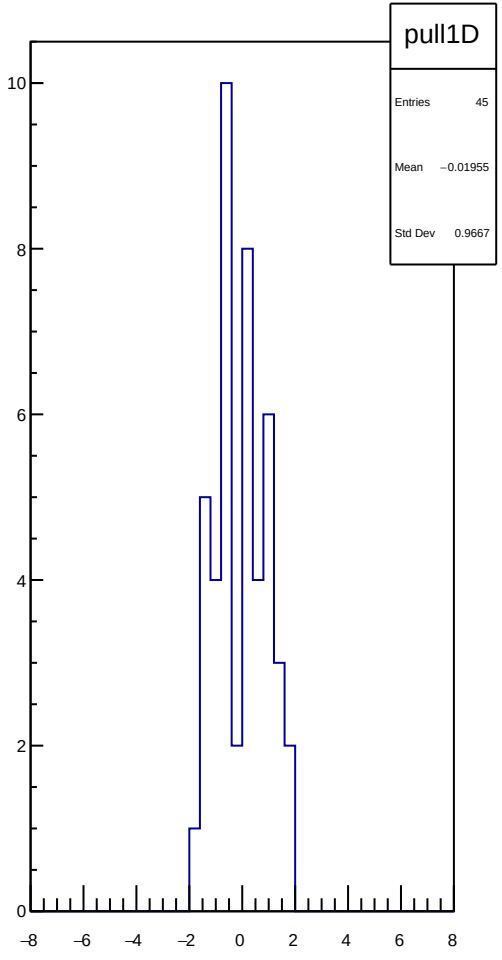

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.51 / 44
p0 −0.1723 ± 0.1216
pull
Entries 45
Mean 68.2
Std Dev 0
pull1D
Entries 45
Mean −0.03414
Std Dev 1.13

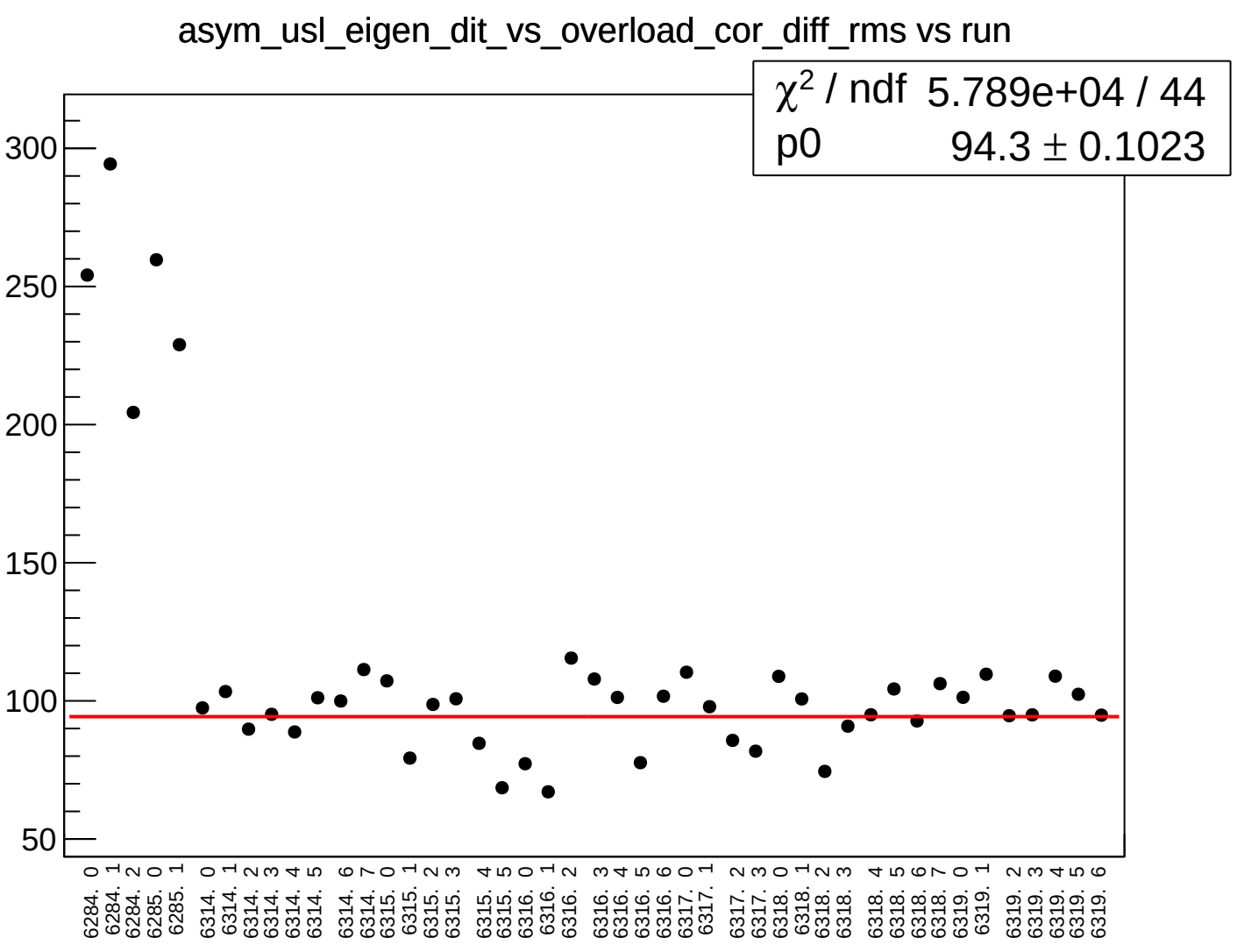

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.506e+04 / 44
p0 78.9 ± 0.08598
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

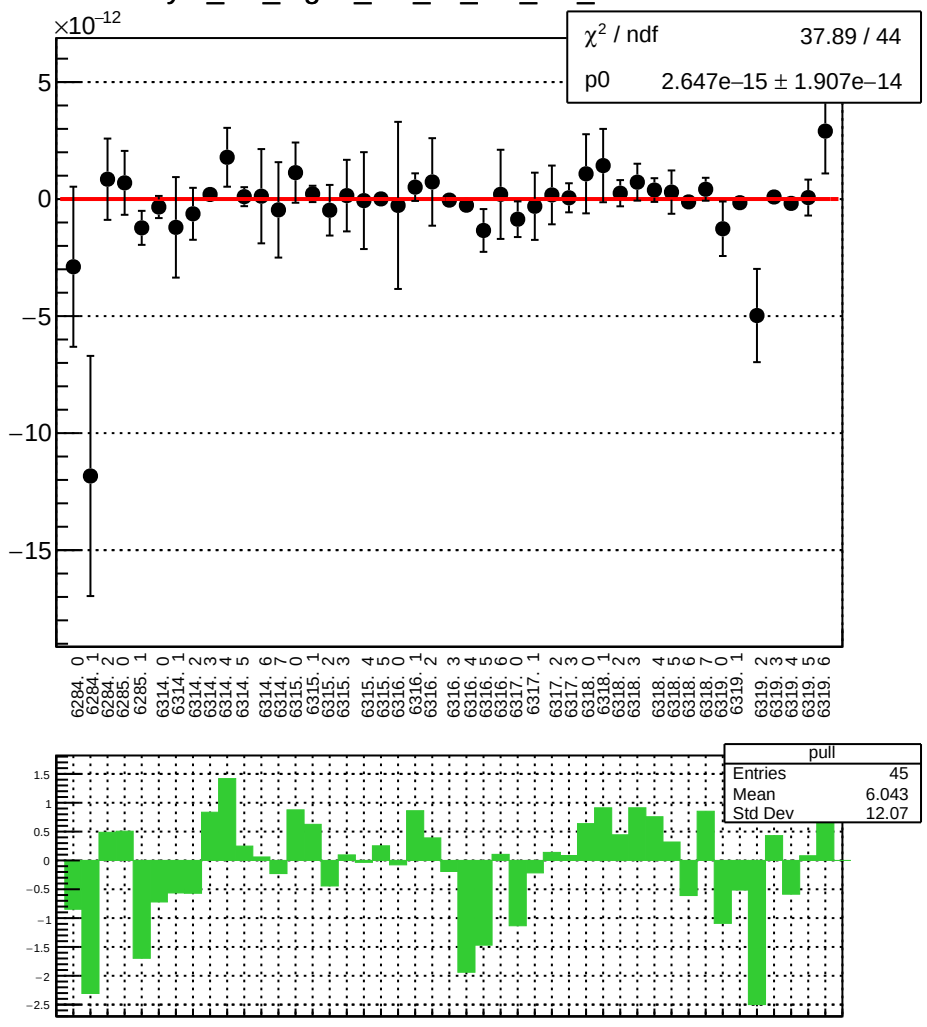

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.51 / 44
p0 −0.1723 ± 0.1216
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 68.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03414
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

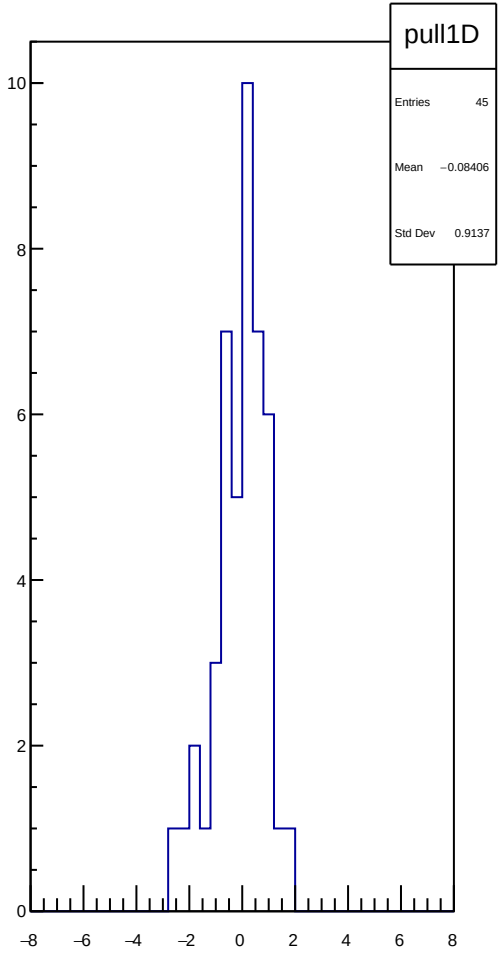

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.506e+04 / 44
p0 78.9 ± 0.08598
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

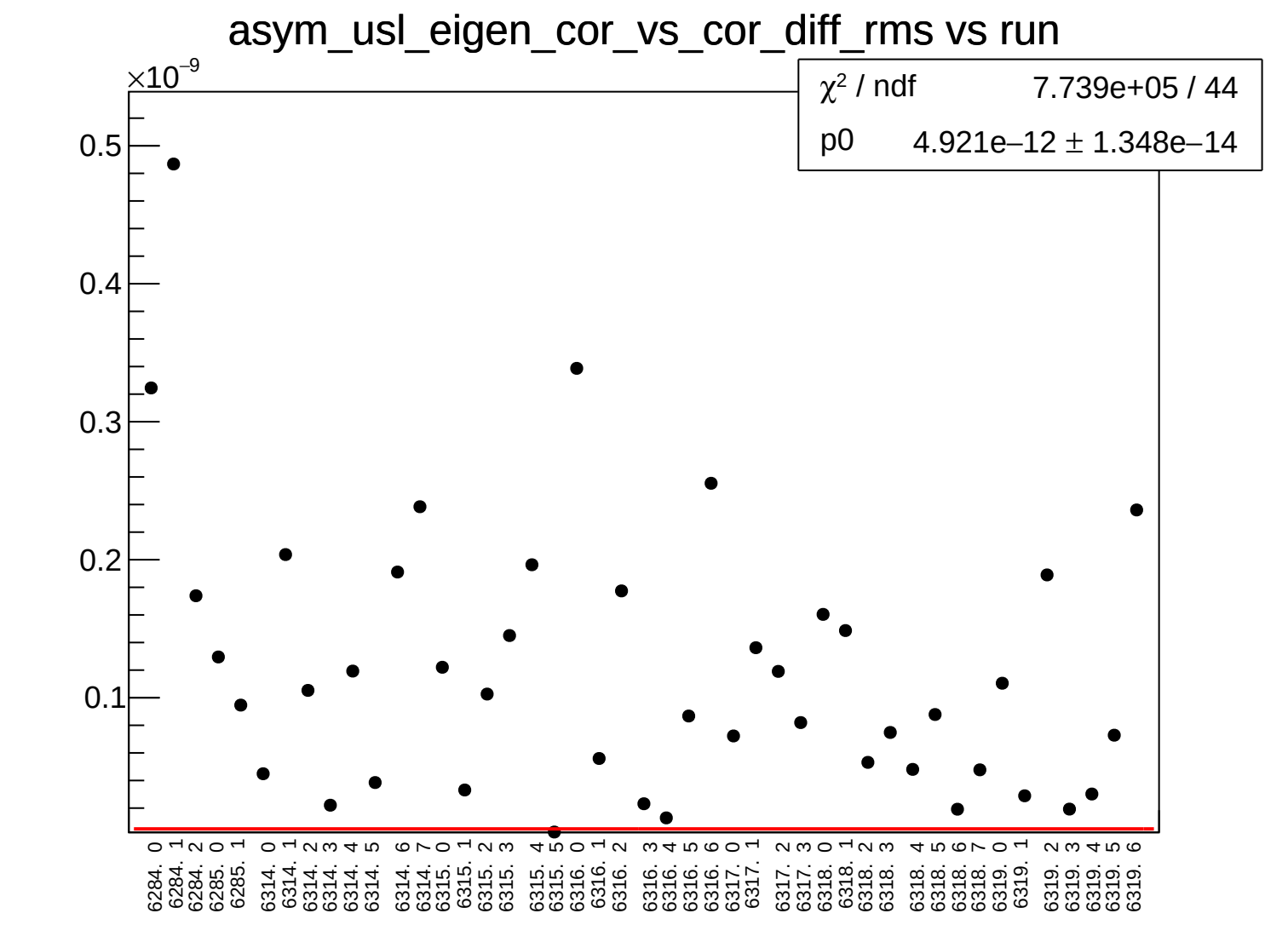

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 42.07 / 44
p0 −0.1303 ± 0.1447
pull
Entries 45
Mean 141.9
Std Dev 0


pull1D
Entries 45
Mean −0.01955
Std Dev 0.9667


asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.789e+04 / 44
p0 94.3 ± 0.1023
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.89 / 44
p0 2.647e−15 ± 1.907e−14
pull
Entries 45
Mean 6.043
Std Dev 12.07


pull1D
Entries 45
Mean −0.08406
Std Dev 0.9137


asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.739e+05 / 44
p0 4.921e−12 ± 1.348e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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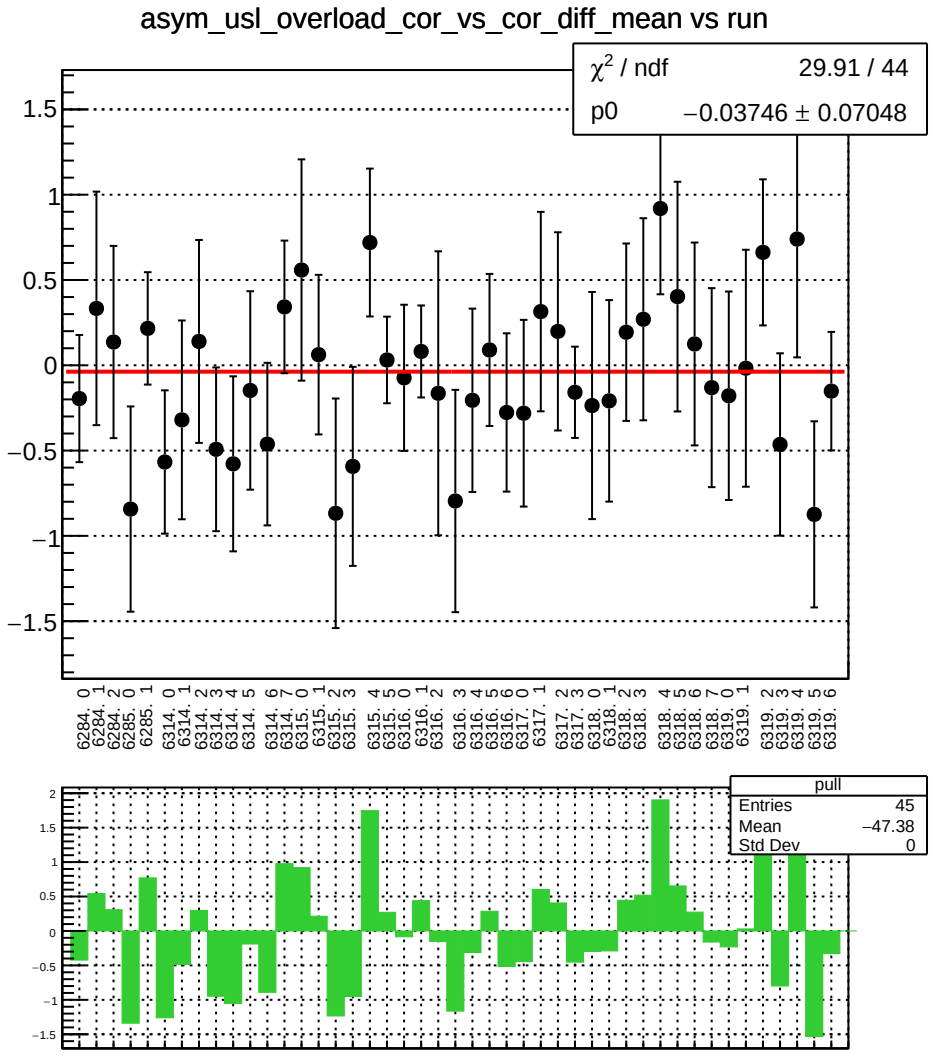
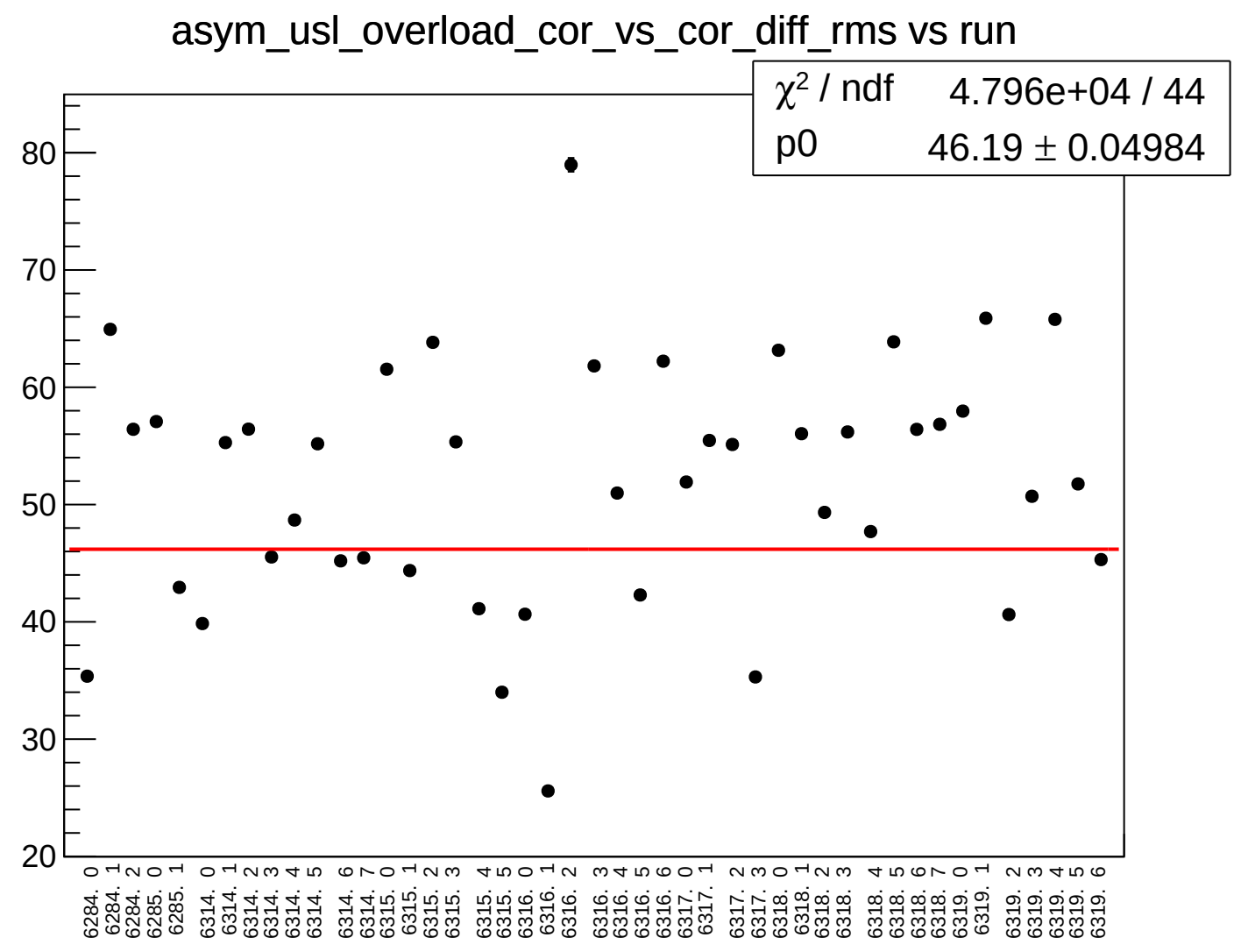
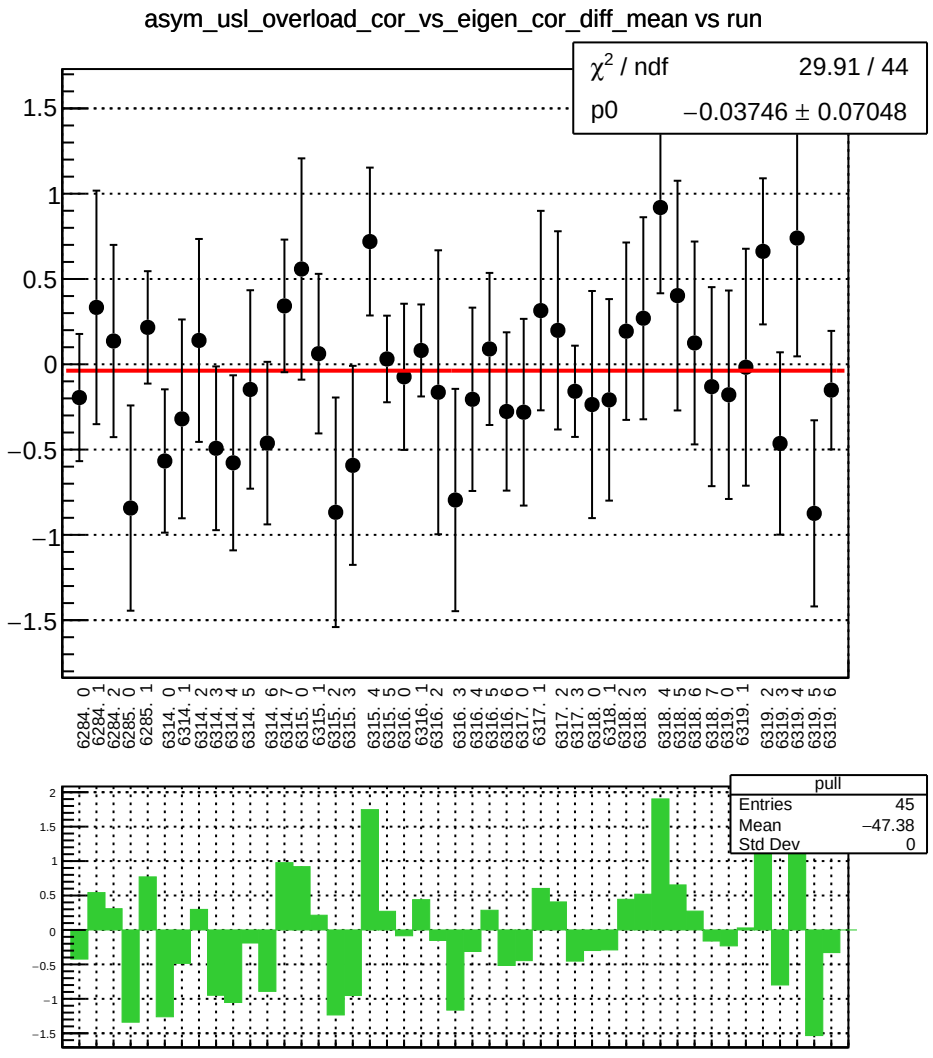
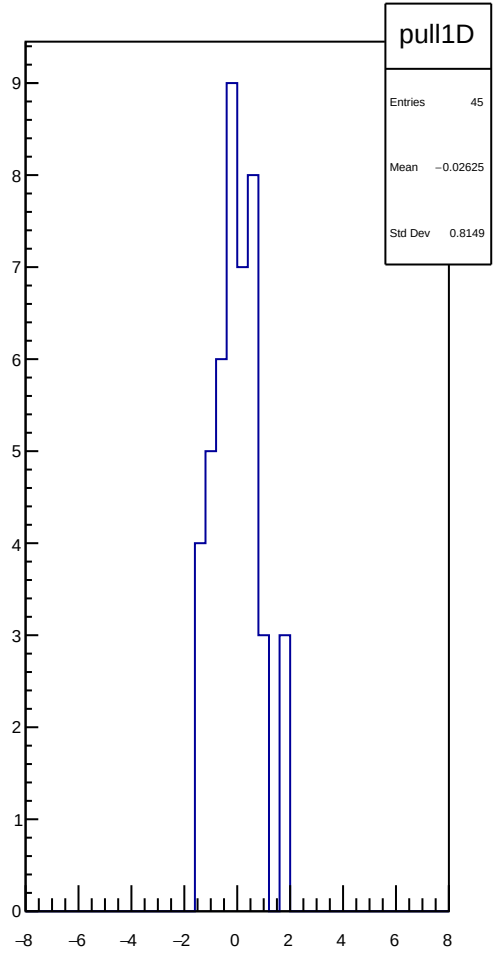
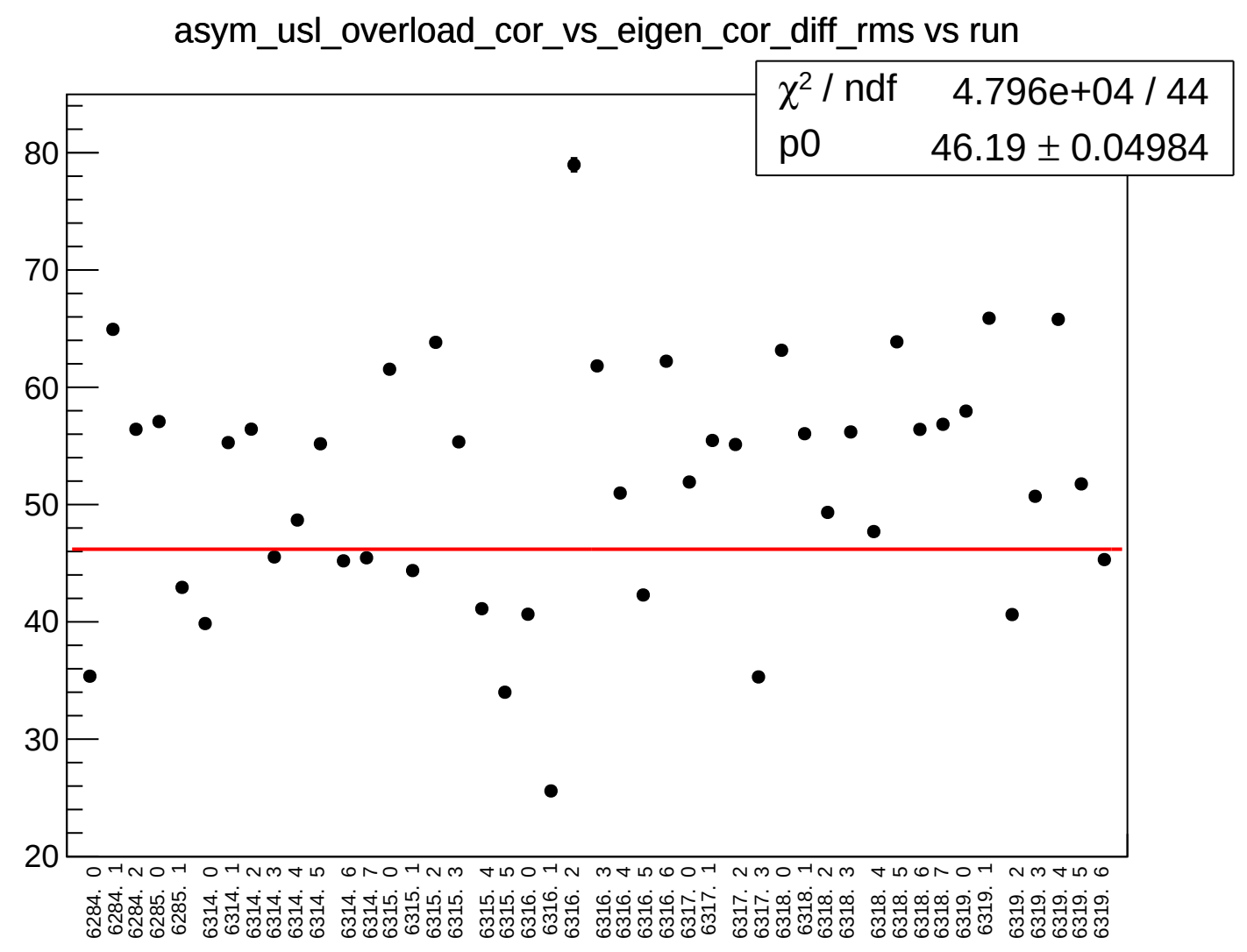
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

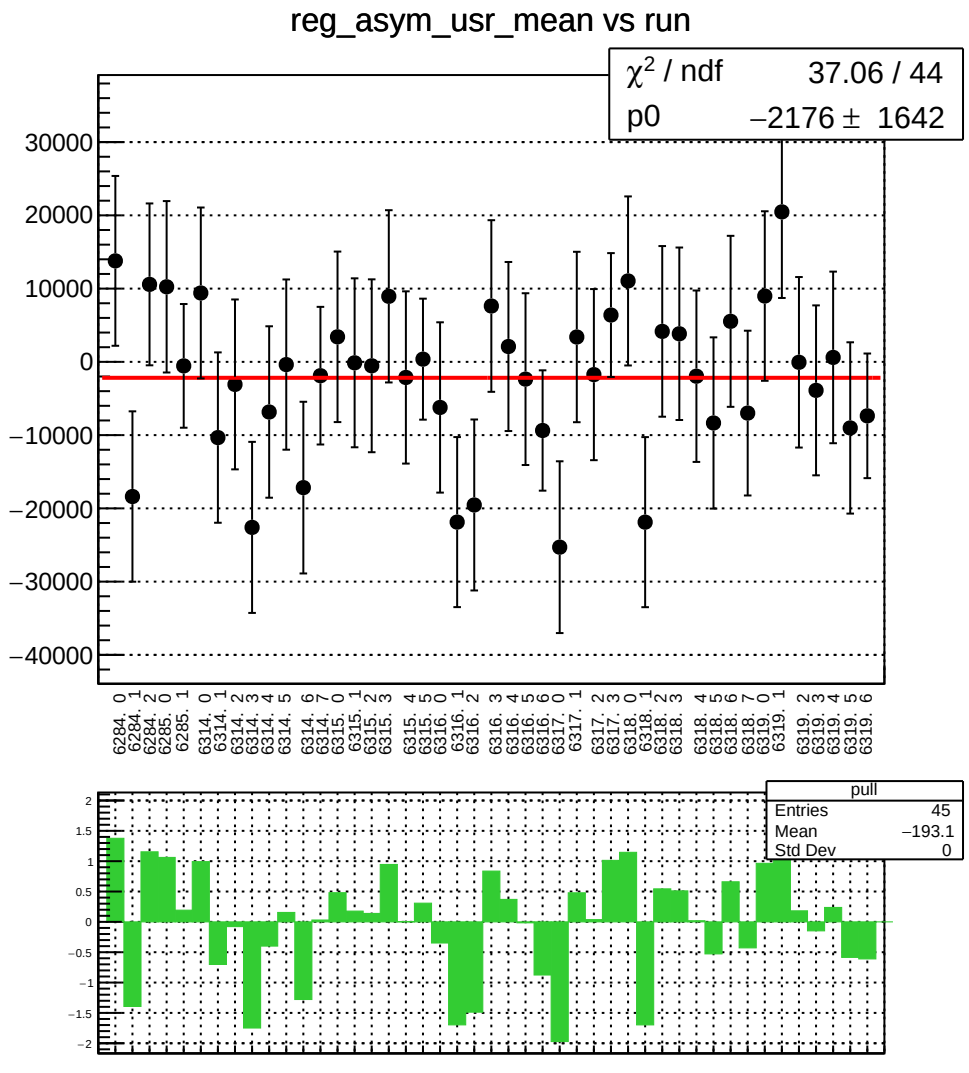

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 29.91 / 44
p0 −0.03746 ± 0.07048
pull
Entries 45
Mean −47.38
Std Dev 0
pull1D
Entries 45
Mean −0.02625
Std Dev 0.8149

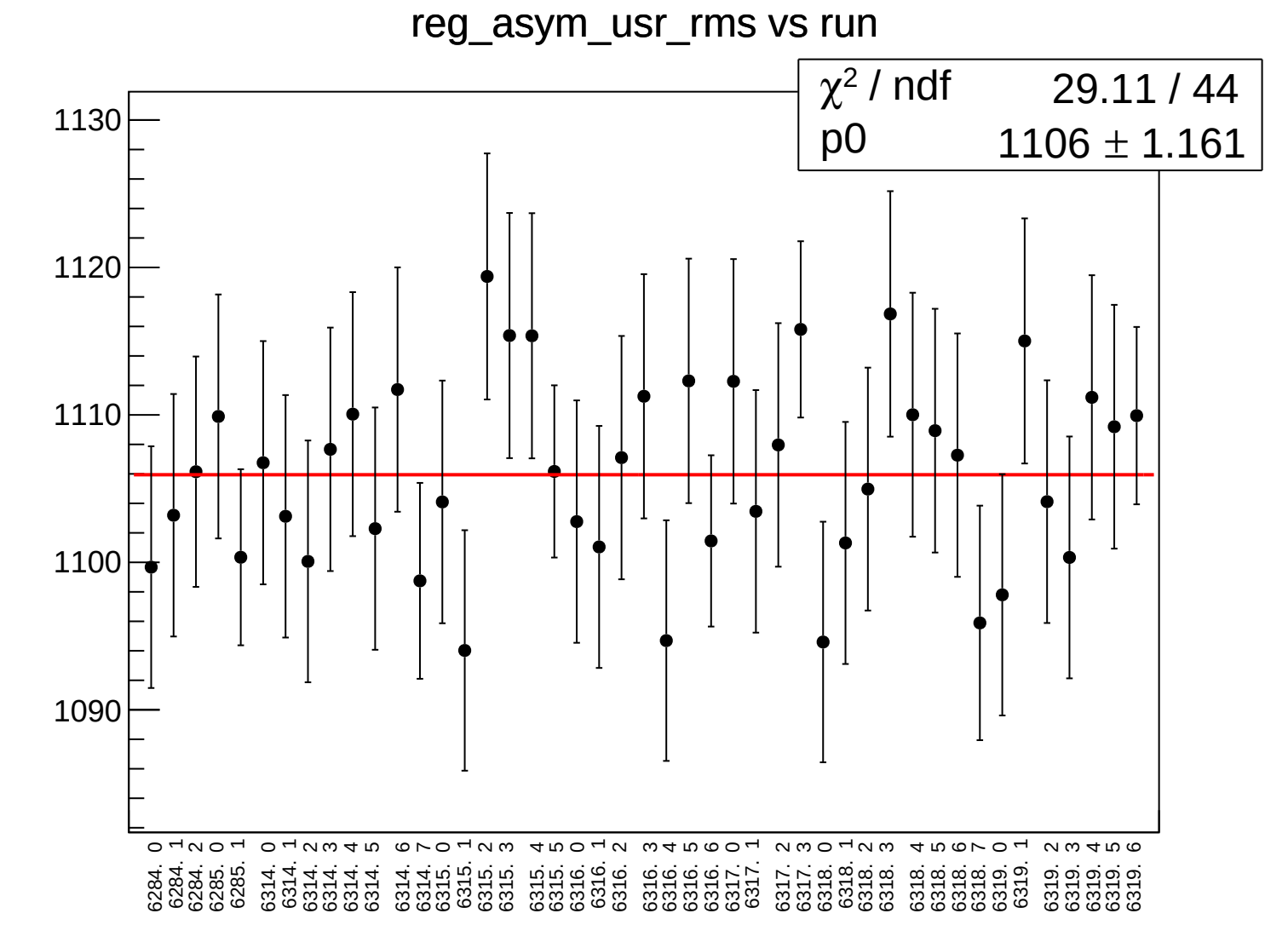

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.796e+04 / 44
p0 46.19 ± 0.04984
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

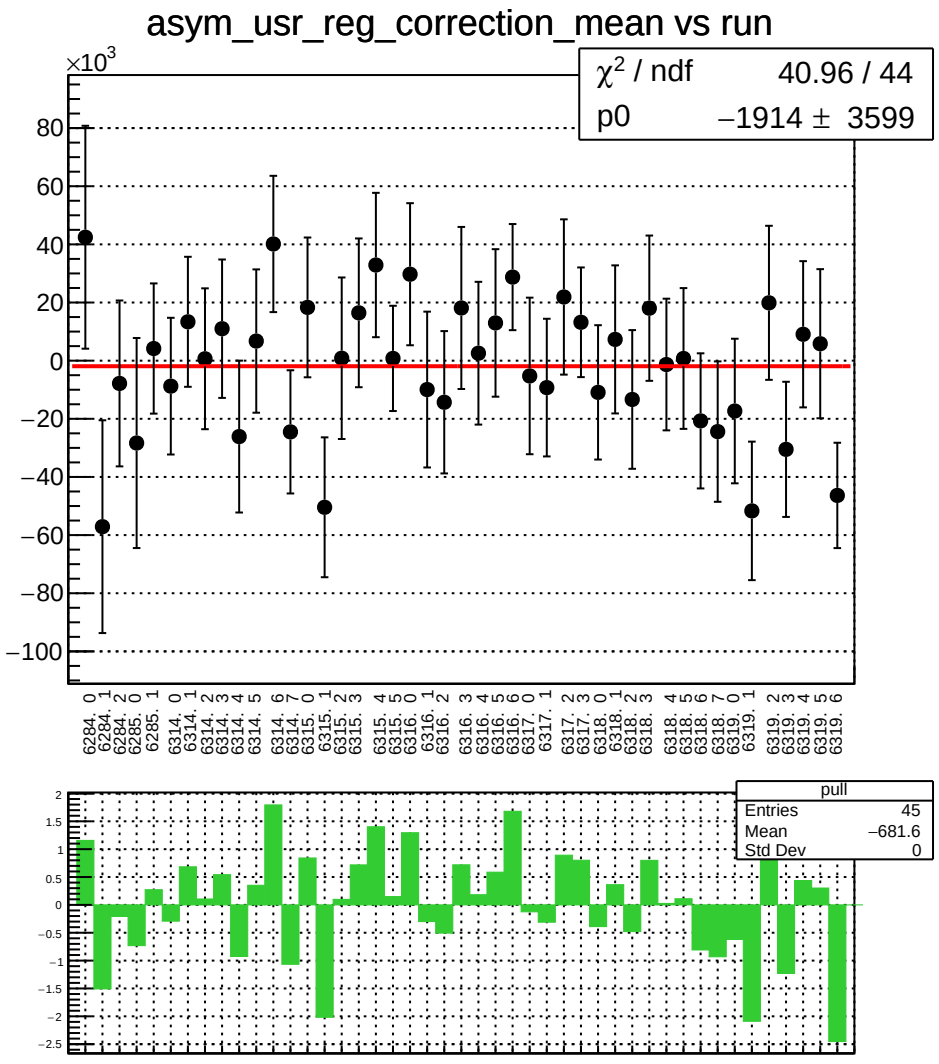

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.91 / 44
p0 −0.03746 ± 0.07048
1.5
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −47.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

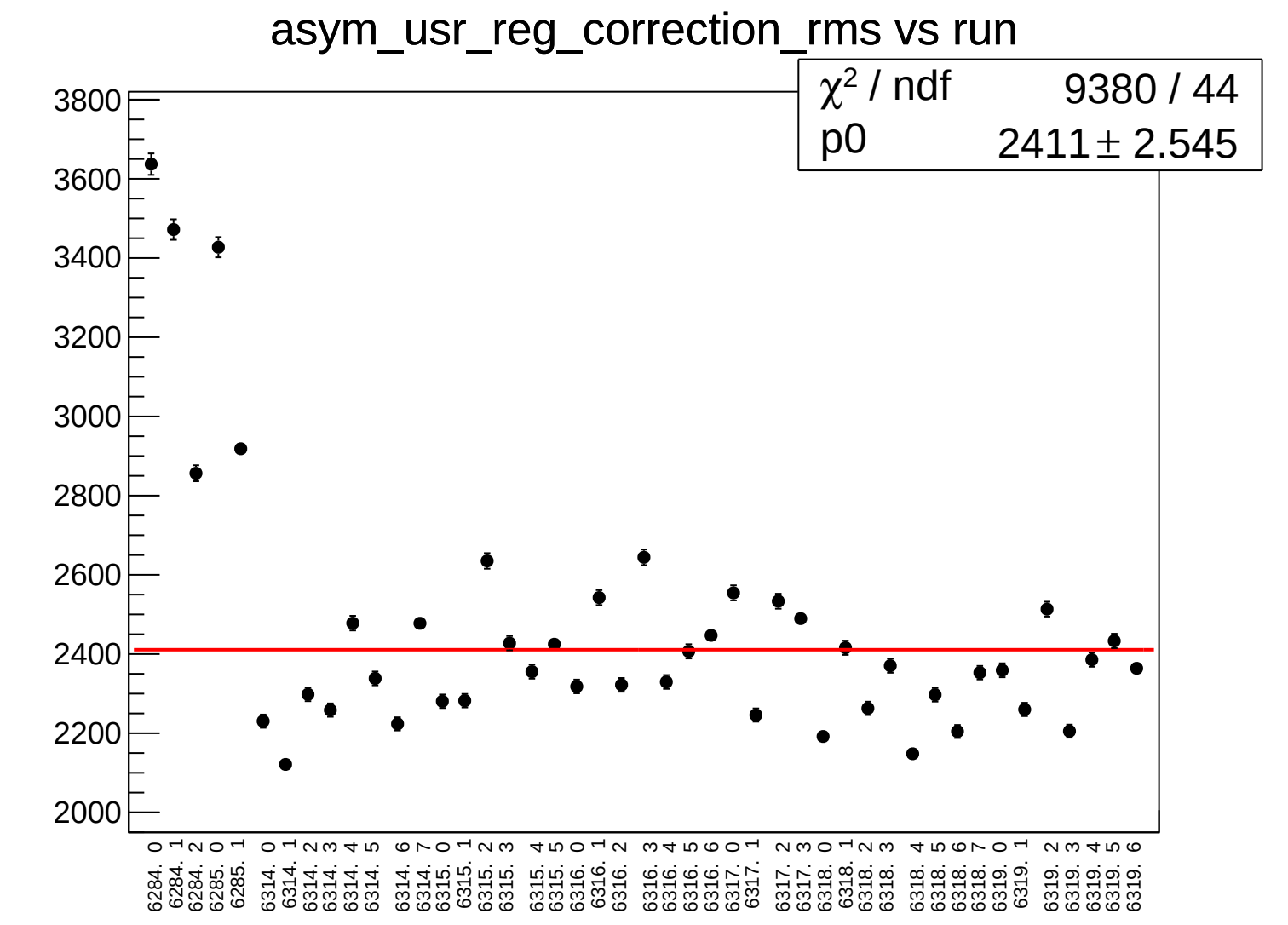

pull1D
Entries 45
Mean −0.02625
Std Dev 0.8149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

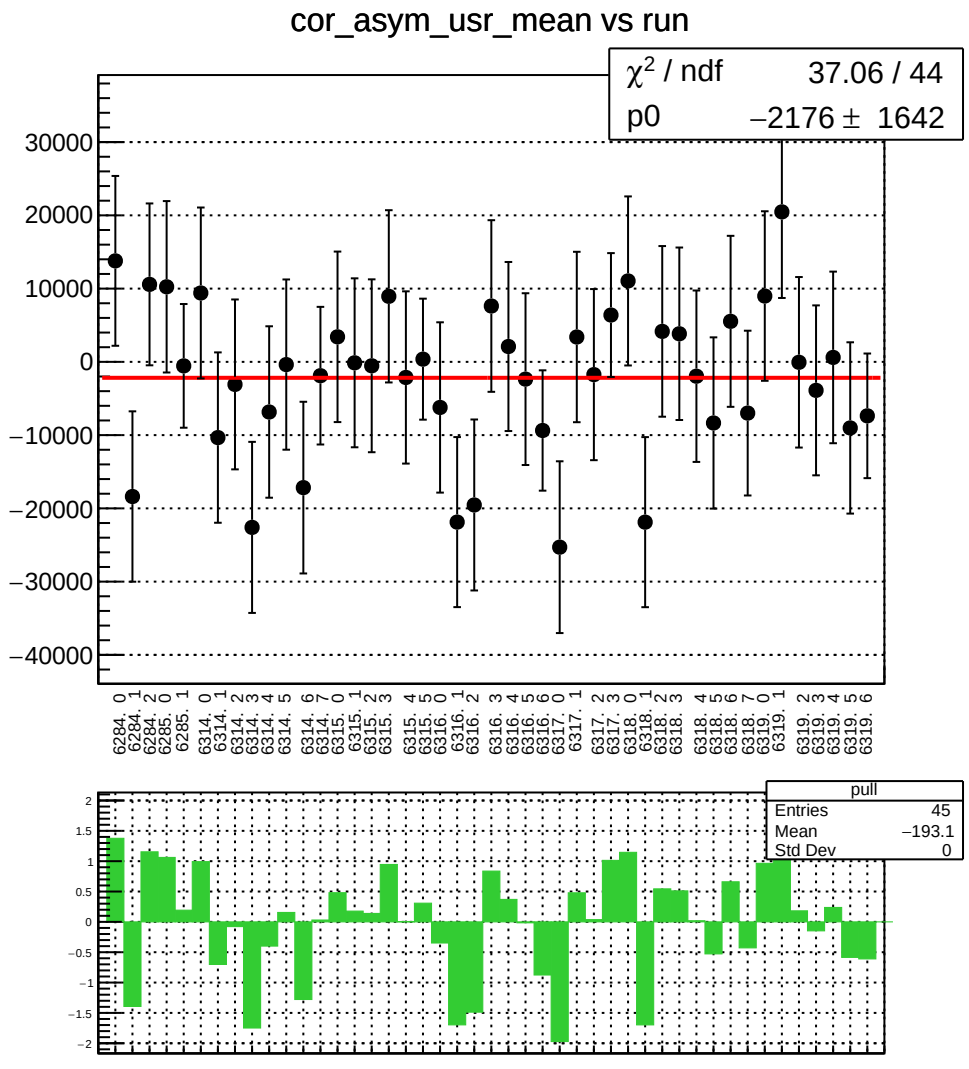

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.796e+04 / 44
p0 46.19 ± 0.04984
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

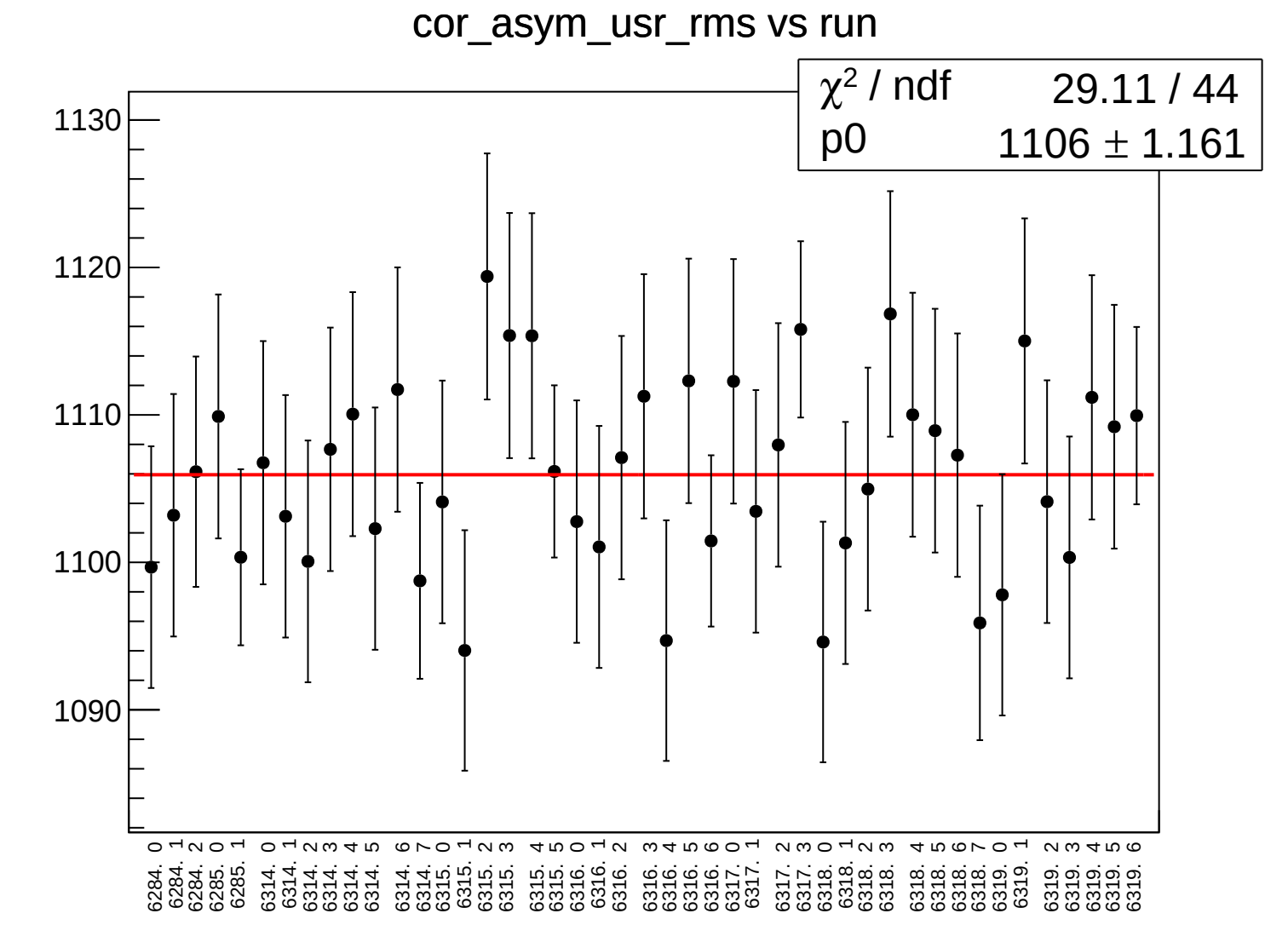

reg_asym_usr_mean vs run
χ² / ndf 37.06 / 44
p0 −2176 ± 1642
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6284. 3
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −193.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001028
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

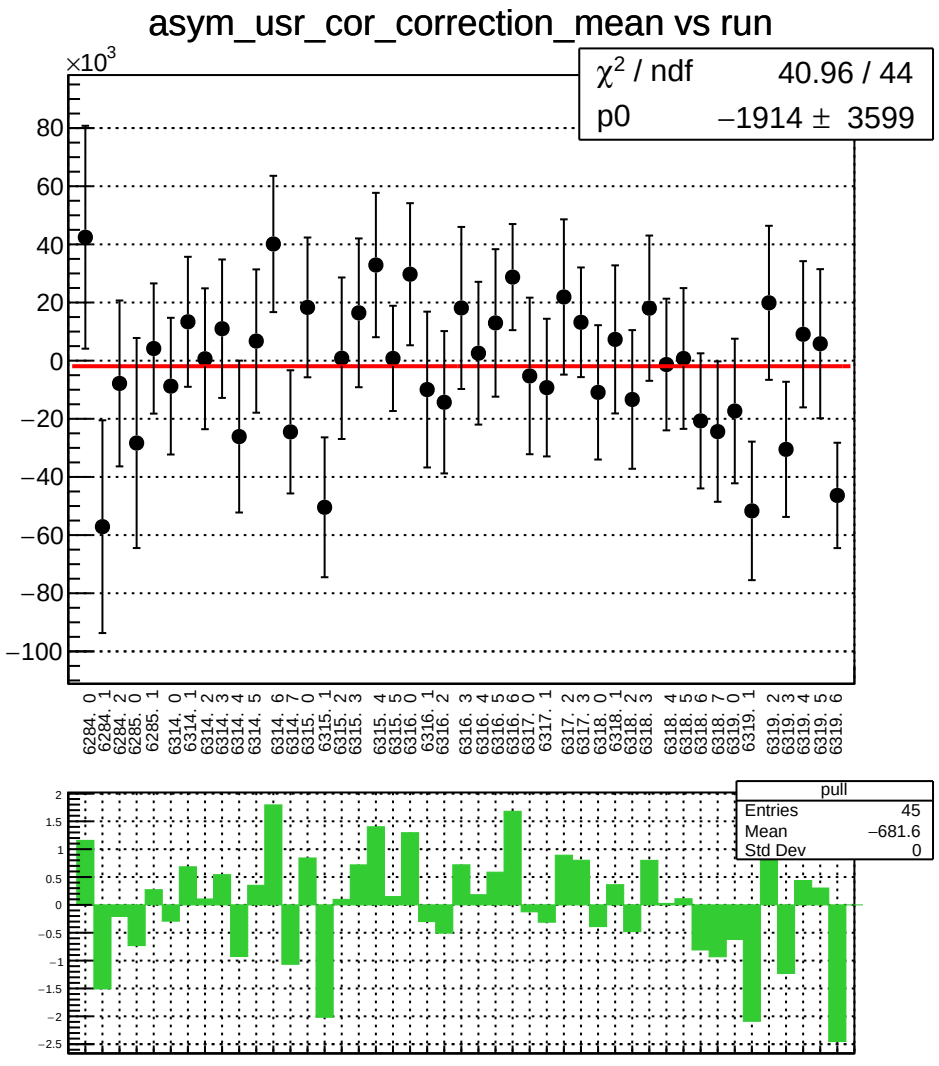

reg_asym_usr_rms vs run
χ² / ndf 29.11 / 44
p0 1106 ± 1.161
1130
1120
1110
1100
1090
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

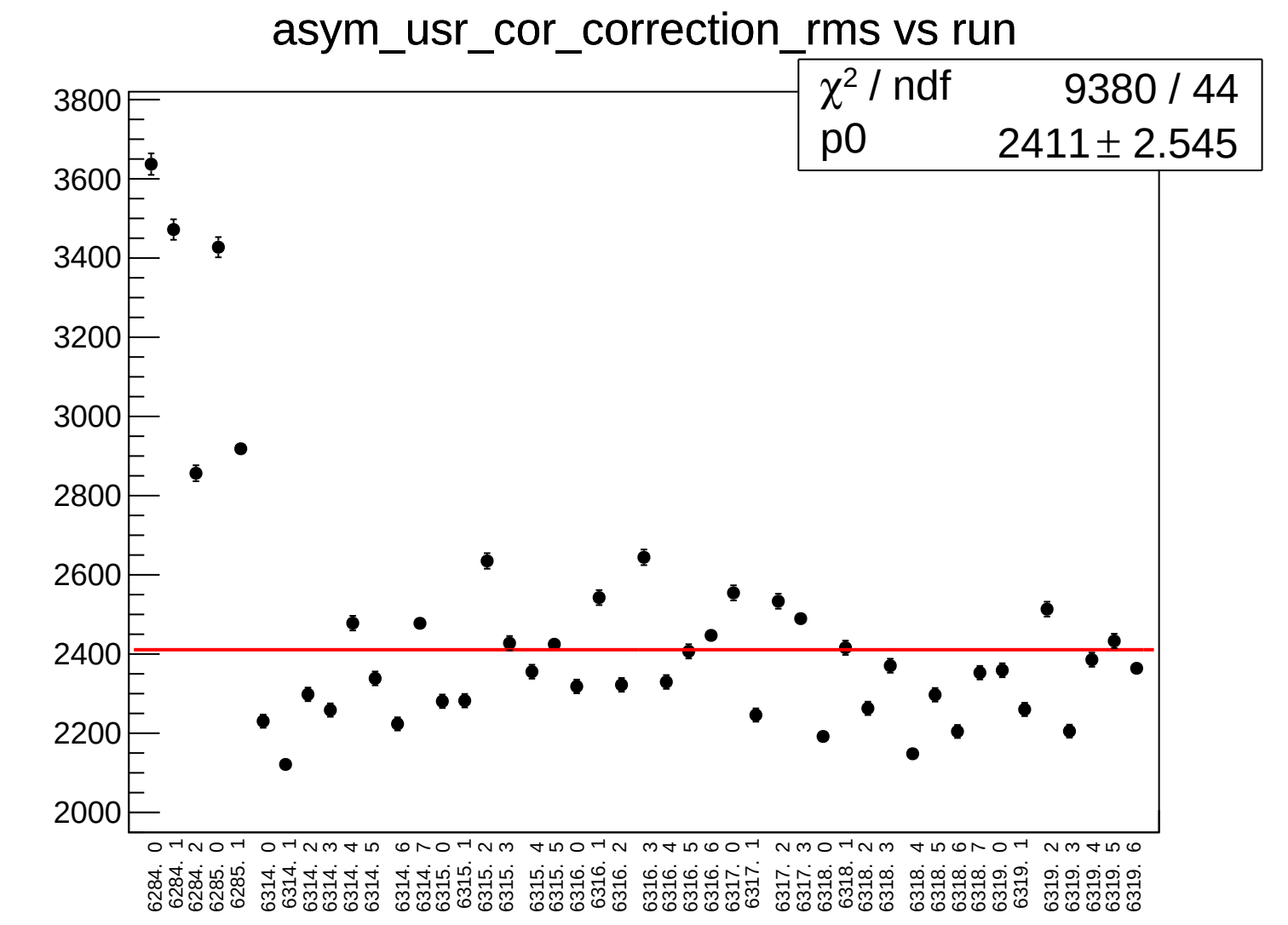

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 −1914 ± 3599
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −681.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003183
Std Dev 0.954
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

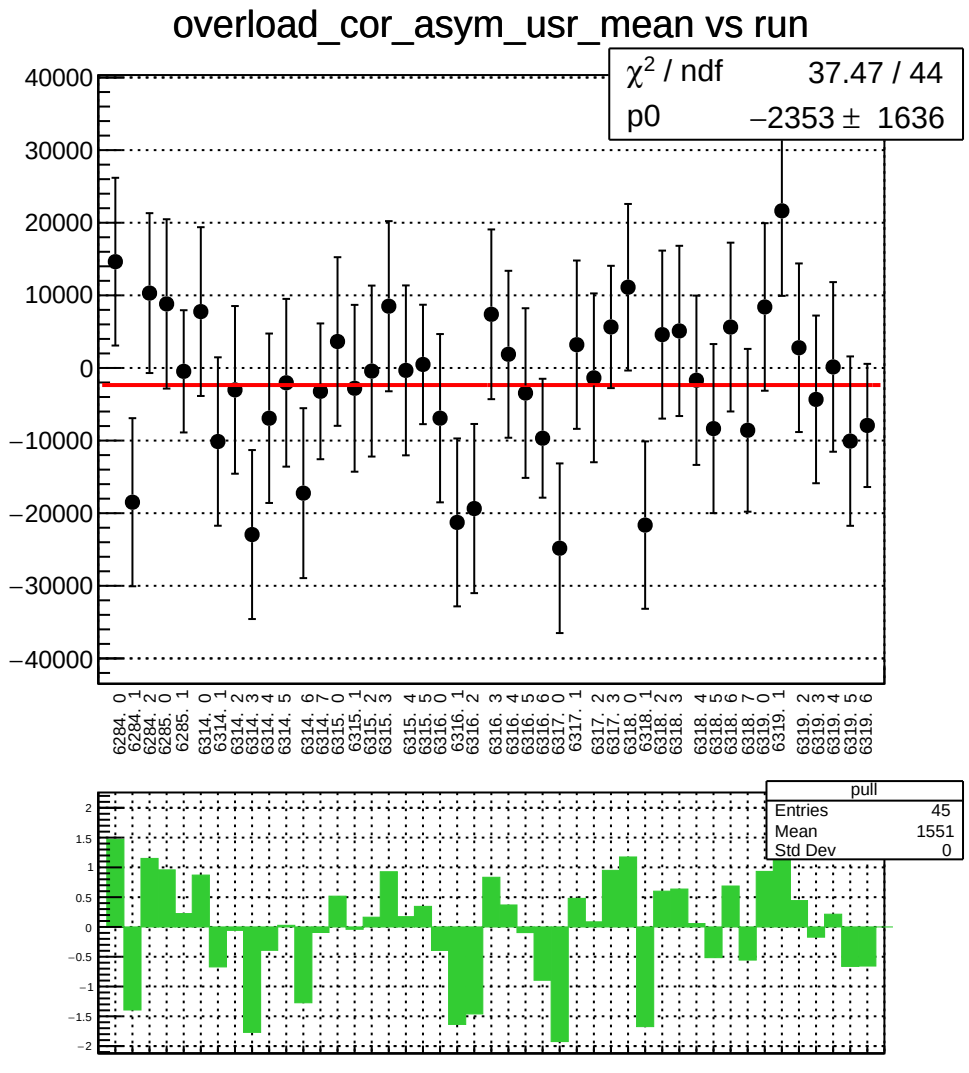

asym_usr_reg_correction_rms vs run
χ² / ndf 9380 / 44
p0 2411 ± 2.545
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

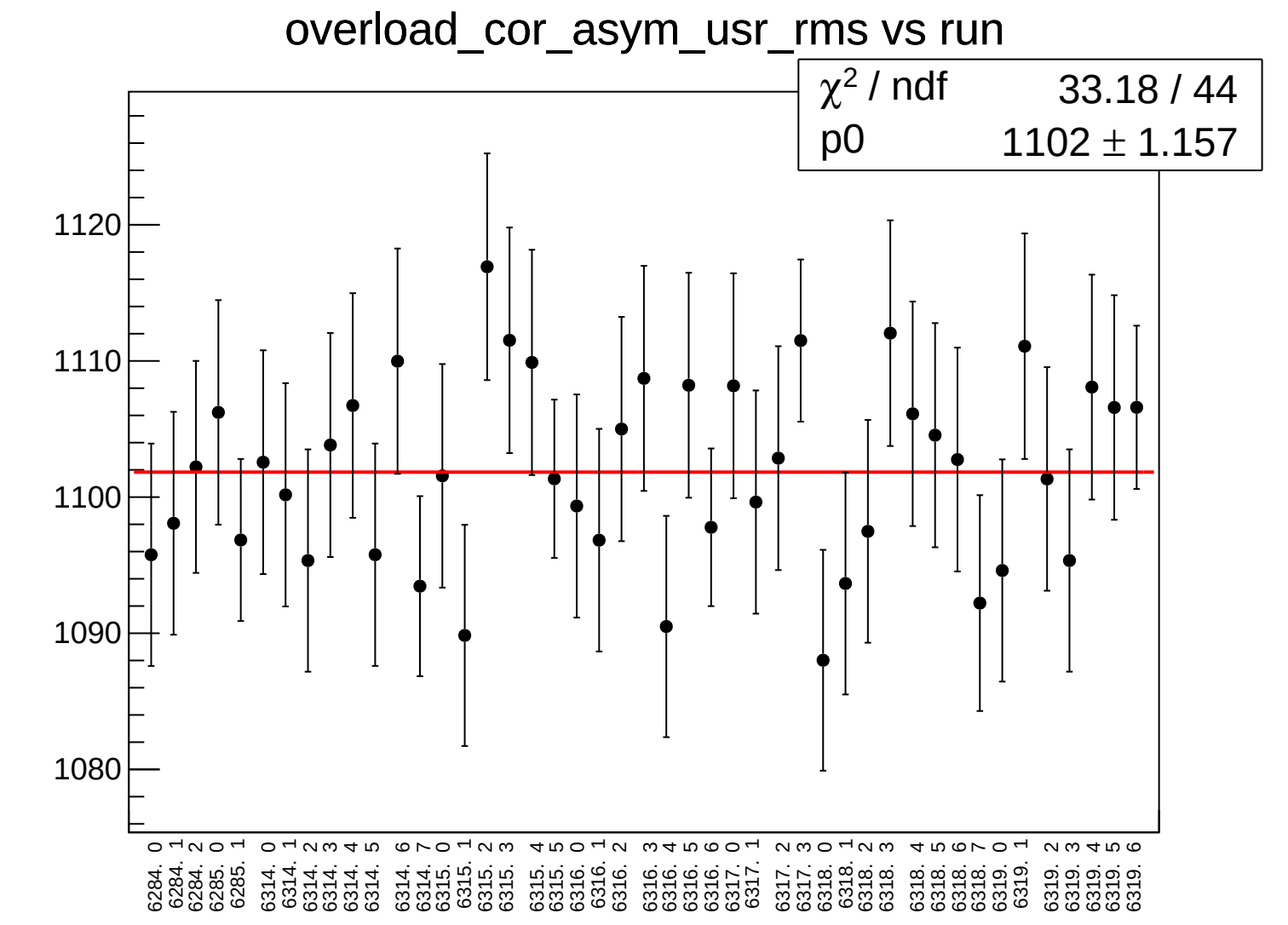

cor_asym_usr_mean vs run
χ² / ndf 37.06 / 44
p0 −2176 ± 1642
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −193.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001028
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_rms vs run
χ² / ndf 29.11 / 44
p0 1106 ± 1.161
1130
1120
1110
1100
1090
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 −1914 ± 3599
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −681.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003183
Std Dev 0.954
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_cor_correction_rms vs run
χ² / ndf 9380 / 44
p0 2411 ± 2.545
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


overload_cor_asym_usr_mean vs run
χ² / ndf 37.47 / 44
p0 −2353 ± 1636
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6284. 6
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1551
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0002604
Std Dev 0.9125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_usr_rms vs run
χ² / ndf 33.18 / 44
p0 1102 ± 1.157
1120
1110
1100
1090
1080
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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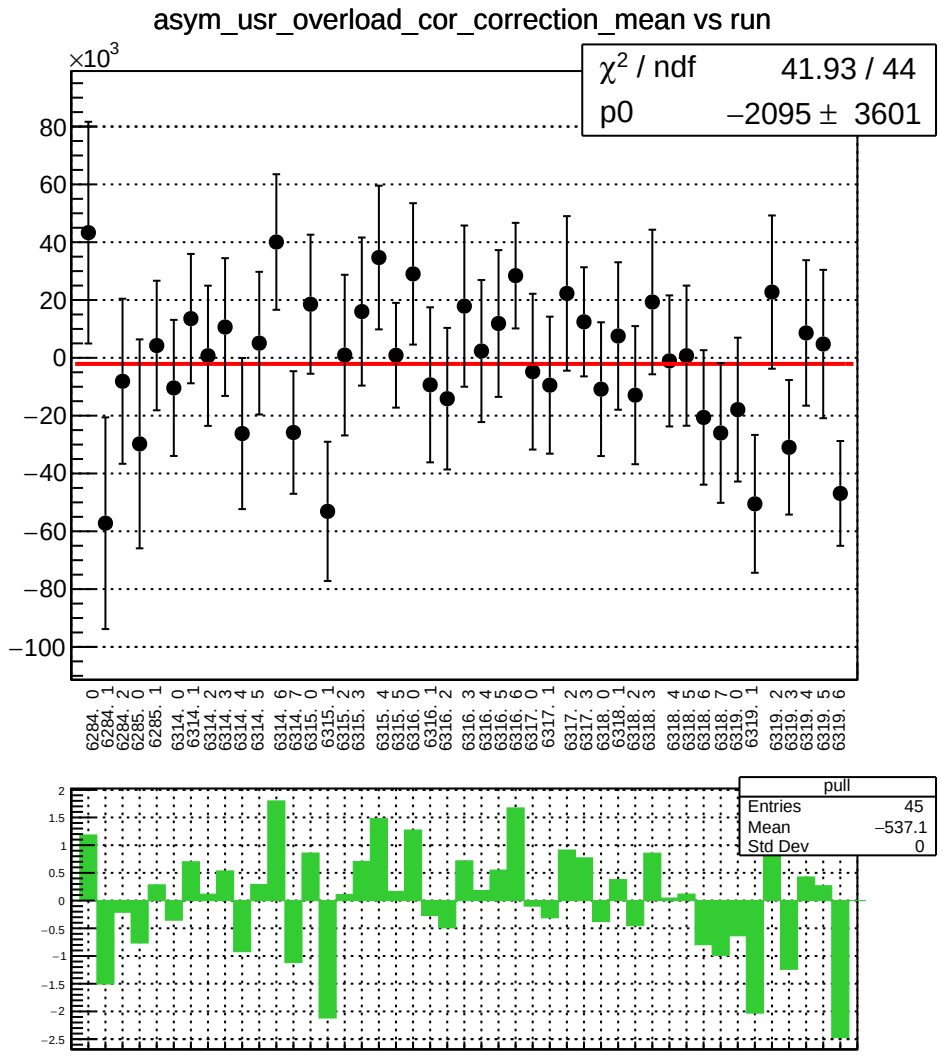
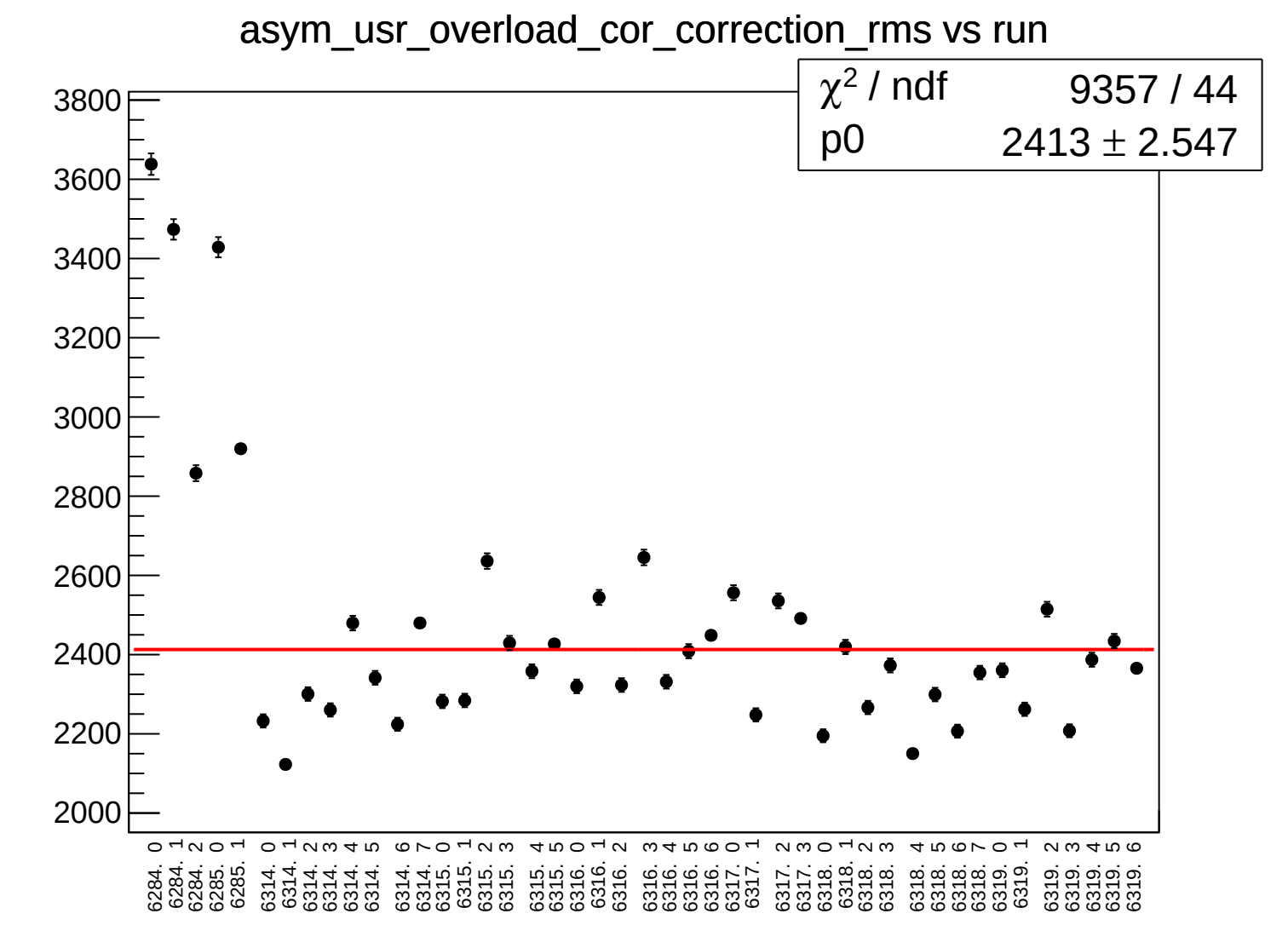
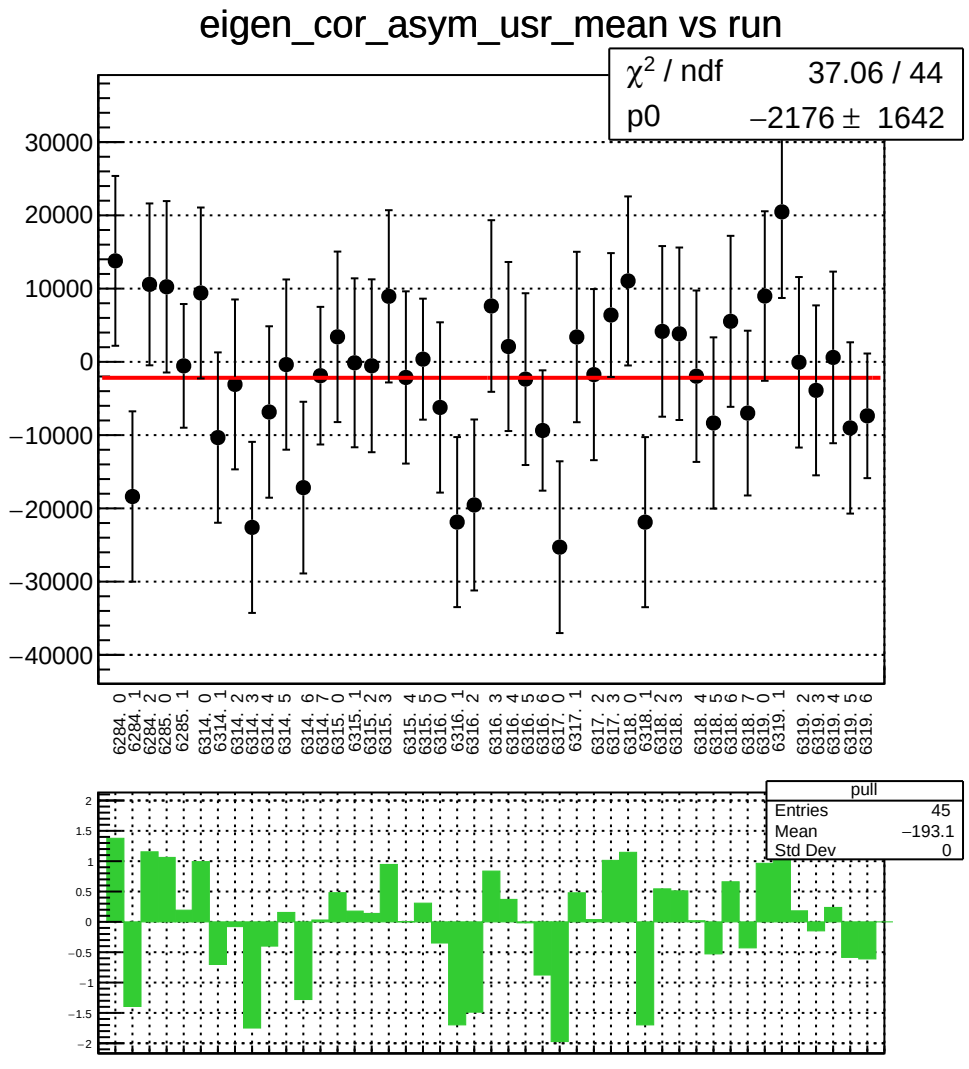
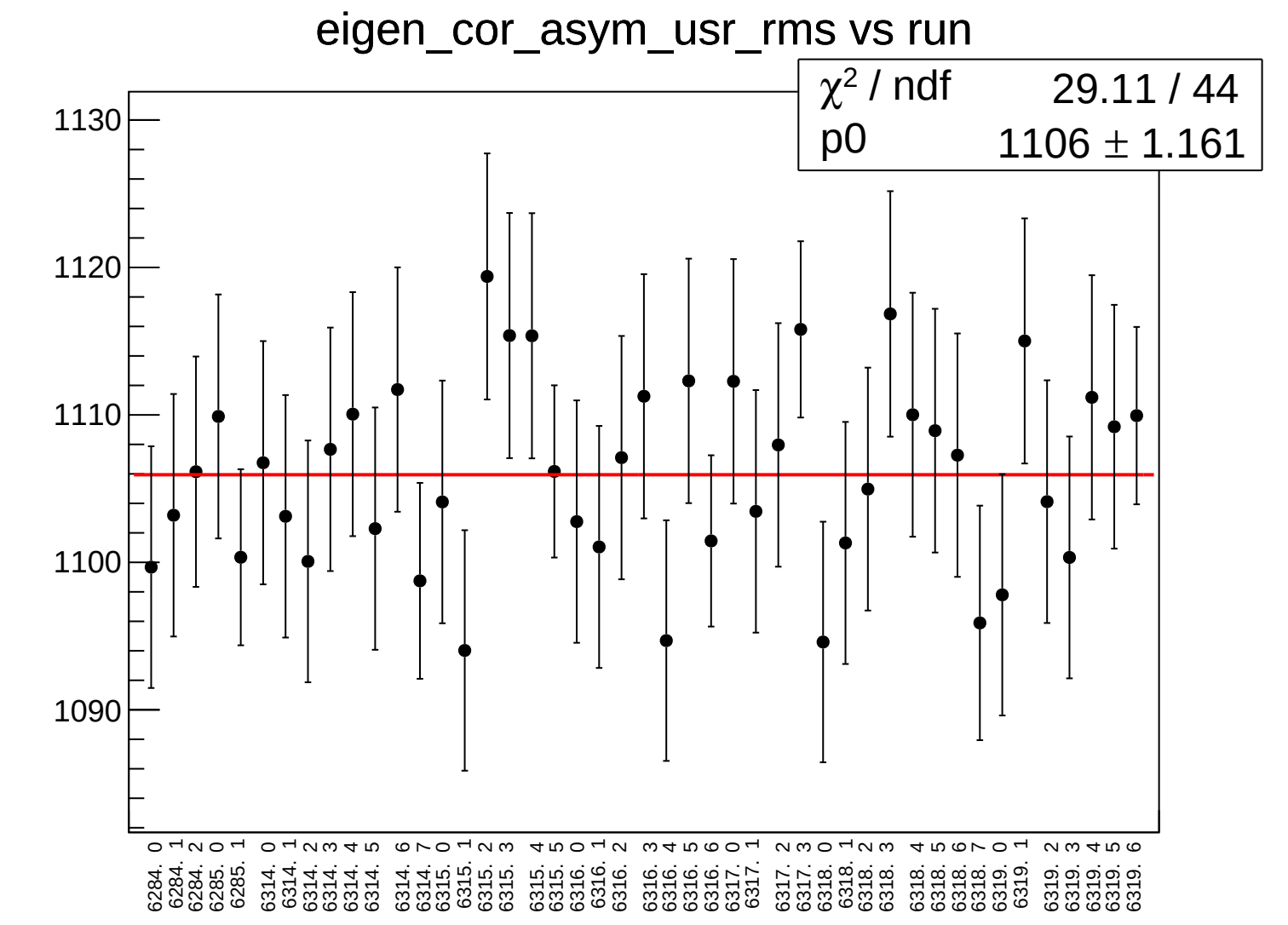
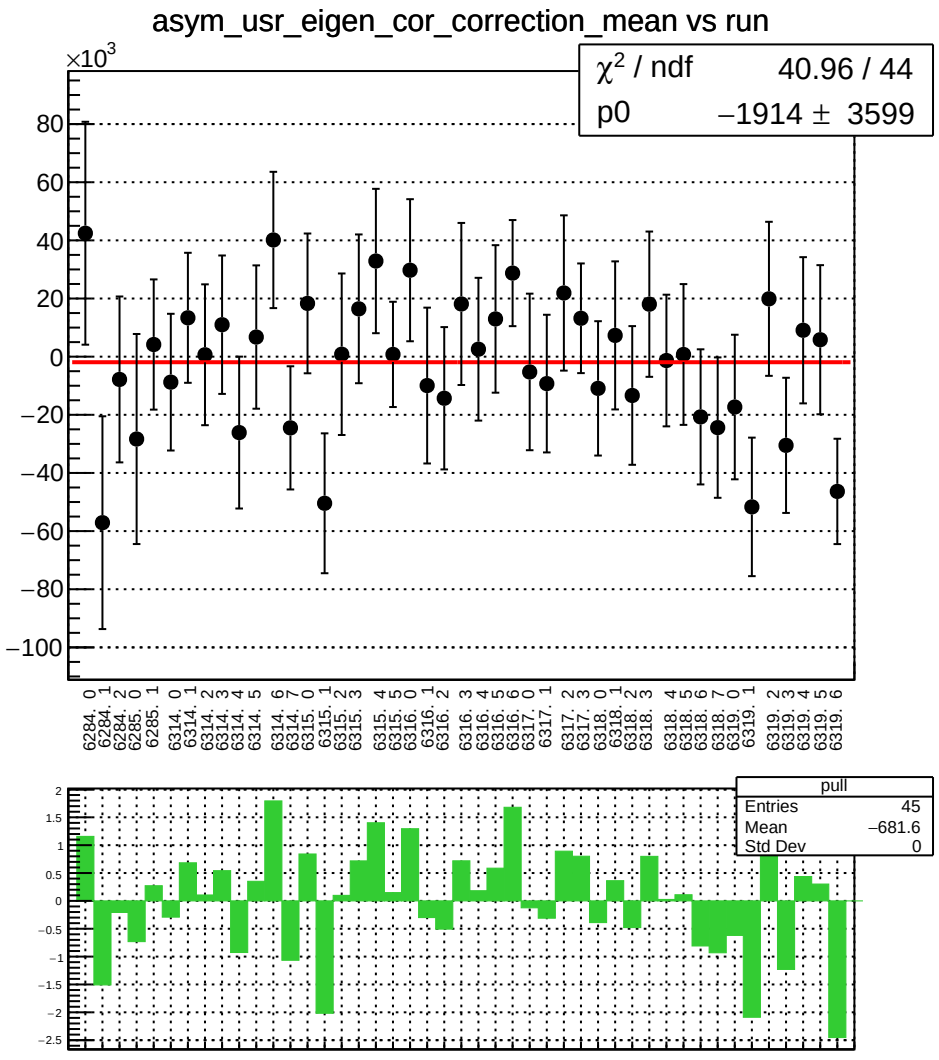
6319. 5
6319. 6

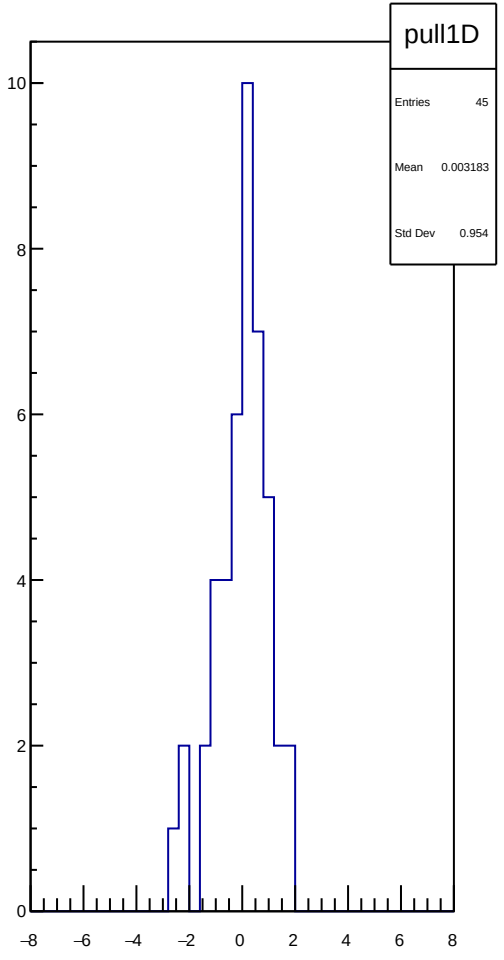

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 41.93 / 44
p0 −2095 ± 3601
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −537.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003851
Std Dev 0.9653
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

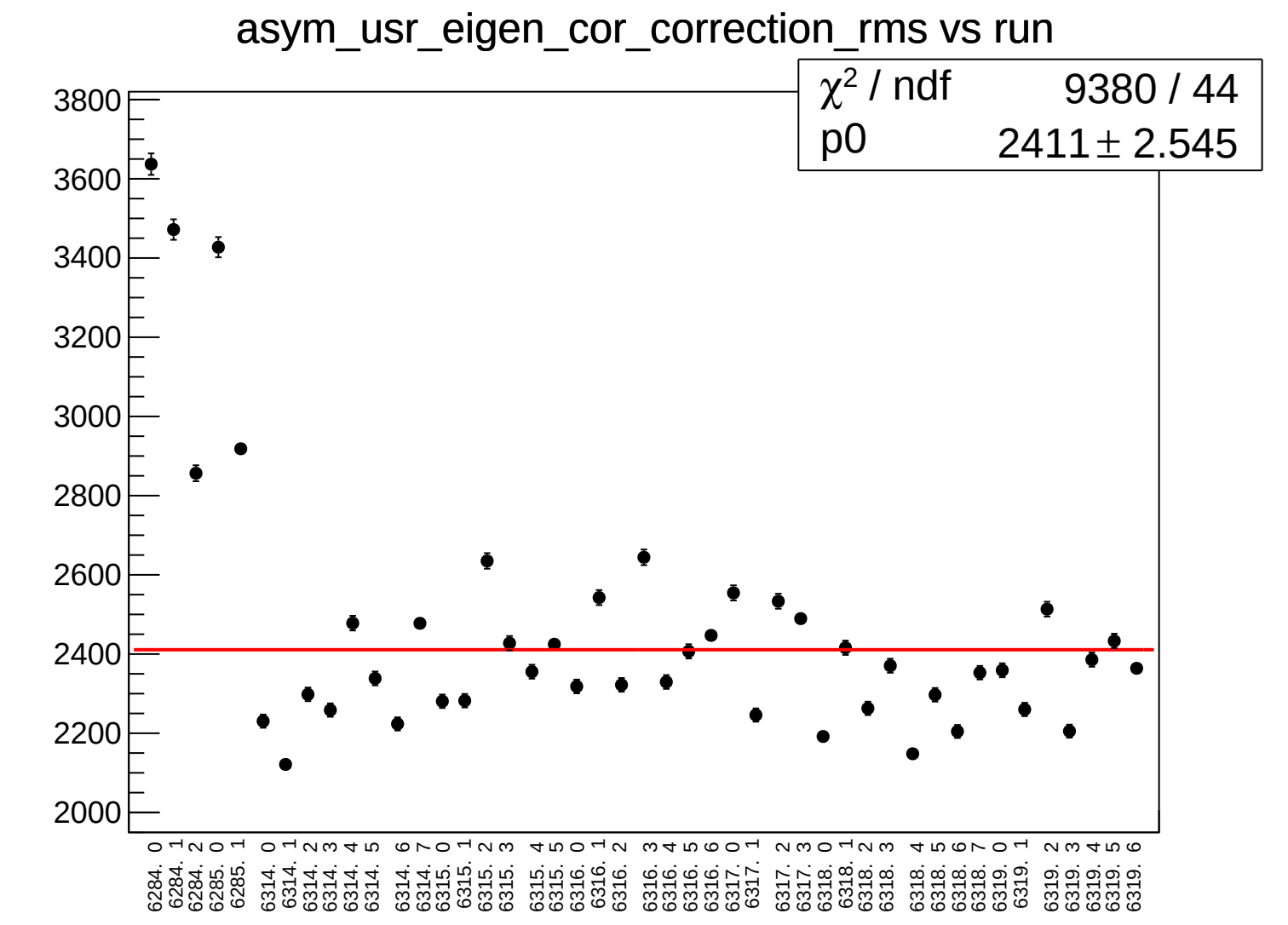

asym_usr_overload_cor_correction_rms vs run
χ^2 / ndf 9357 / 44
p0 2413 ± 2.547
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

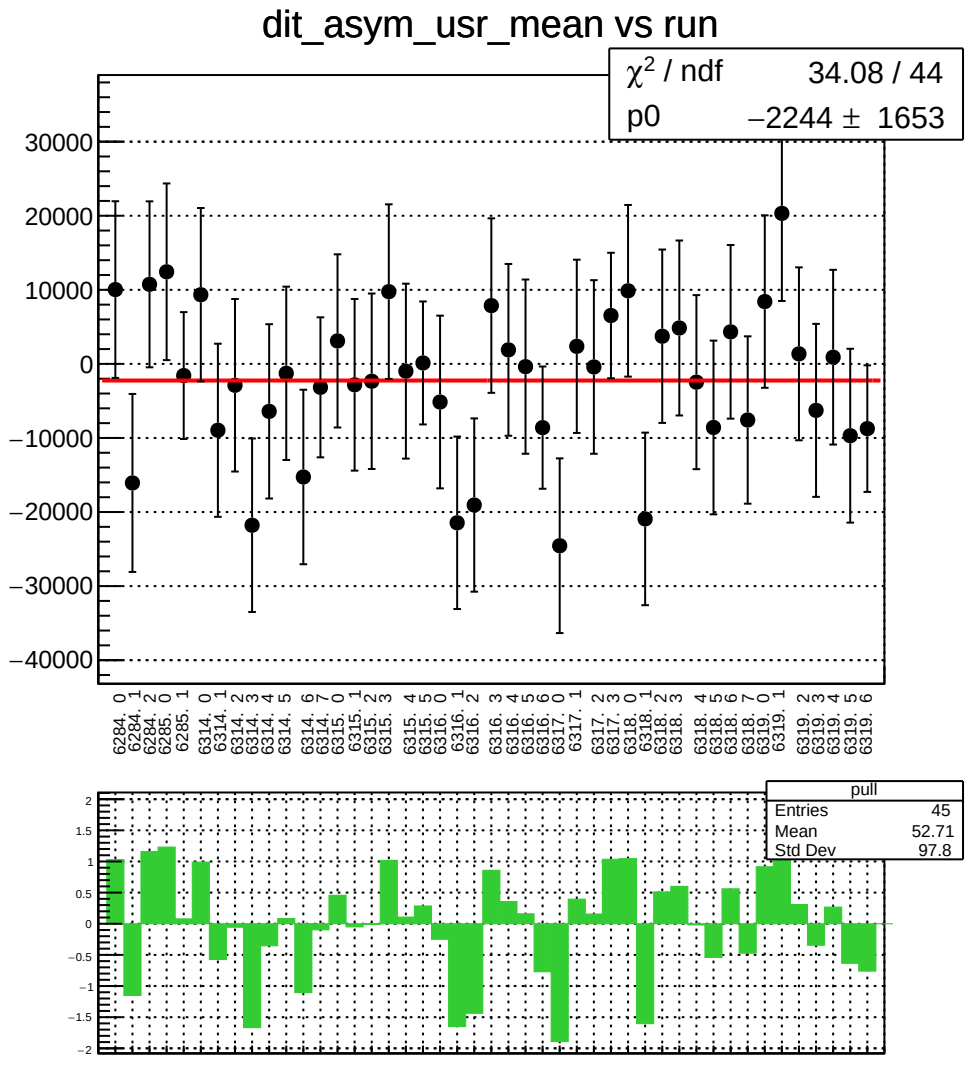

eigen_cor_asym_usr_mean vs run
χ² / ndf 37.06 / 44
p0 −2176 ± 1642
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6284. 3
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −193.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001028
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

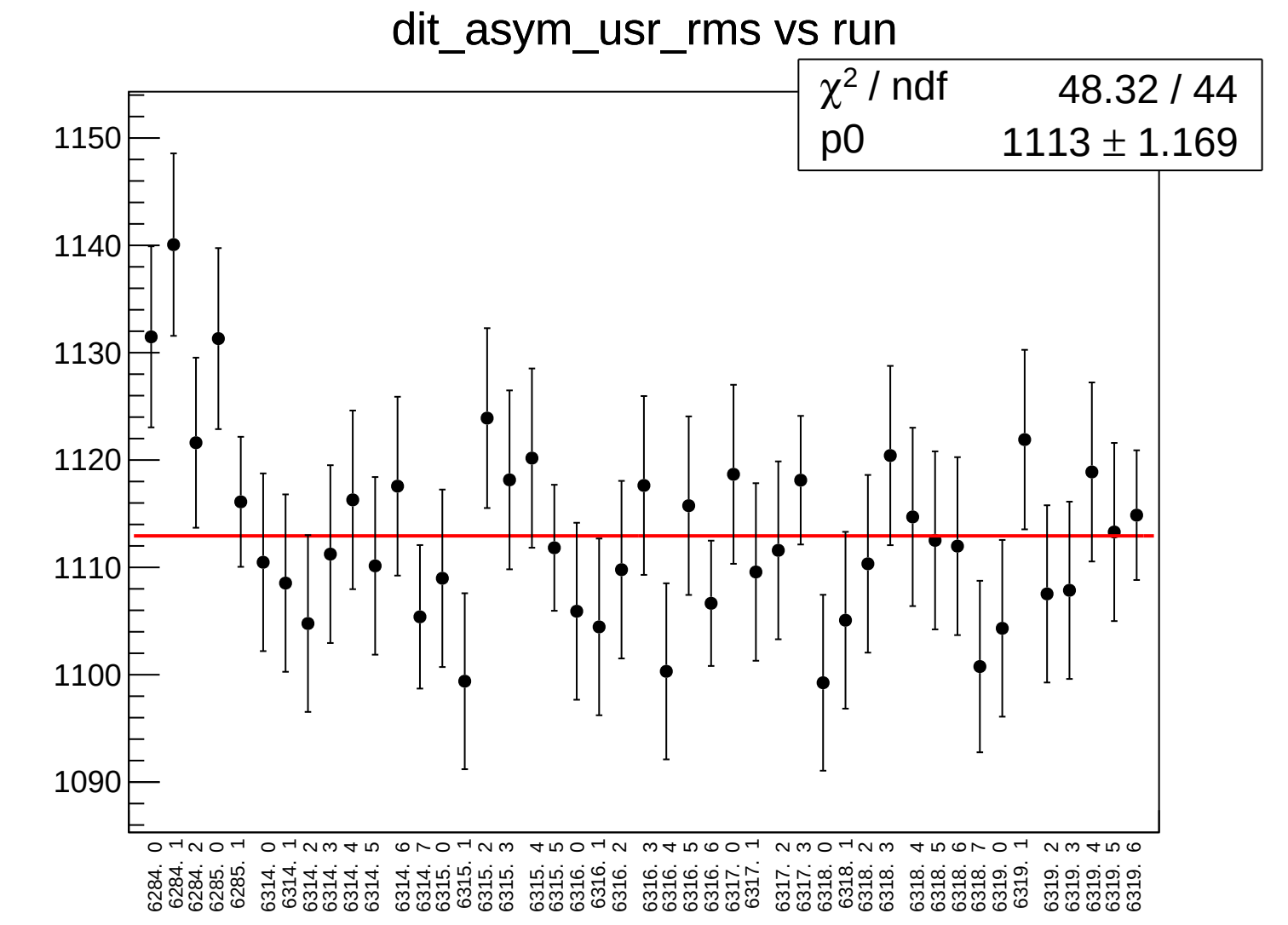

eigen_cor_asym_usr_rms vs run
χ² / ndf 29.11 / 44
p0 1106 ± 1.161
1130
1120
1110
1100
1090
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

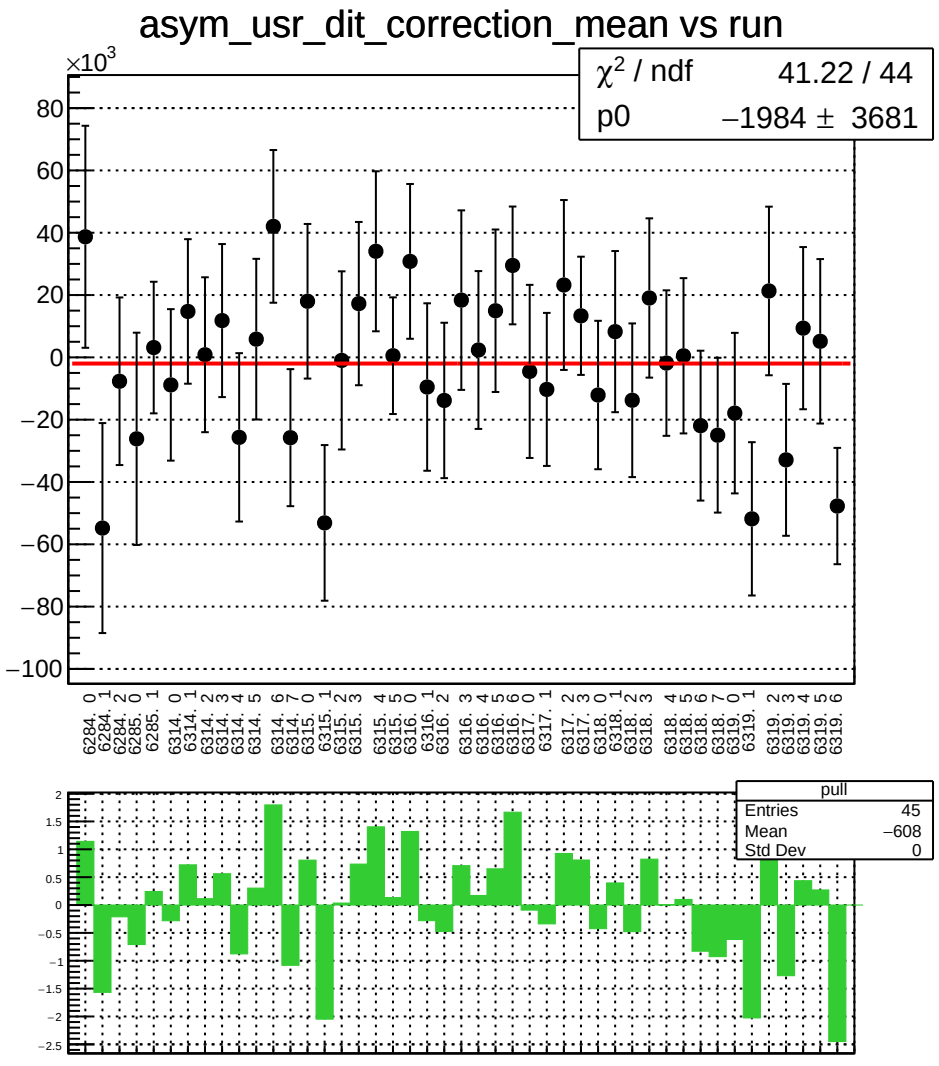

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 −1914 ± 3599
pull
Entries 45
Mean −681.6
Std Dev 0

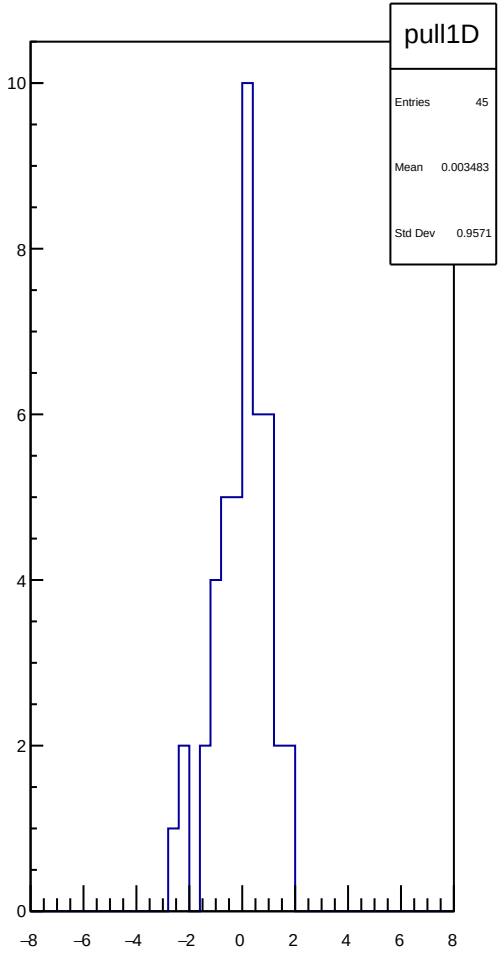

pull1D
Entries 45
Mean 0.003183
Std Dev 0.954

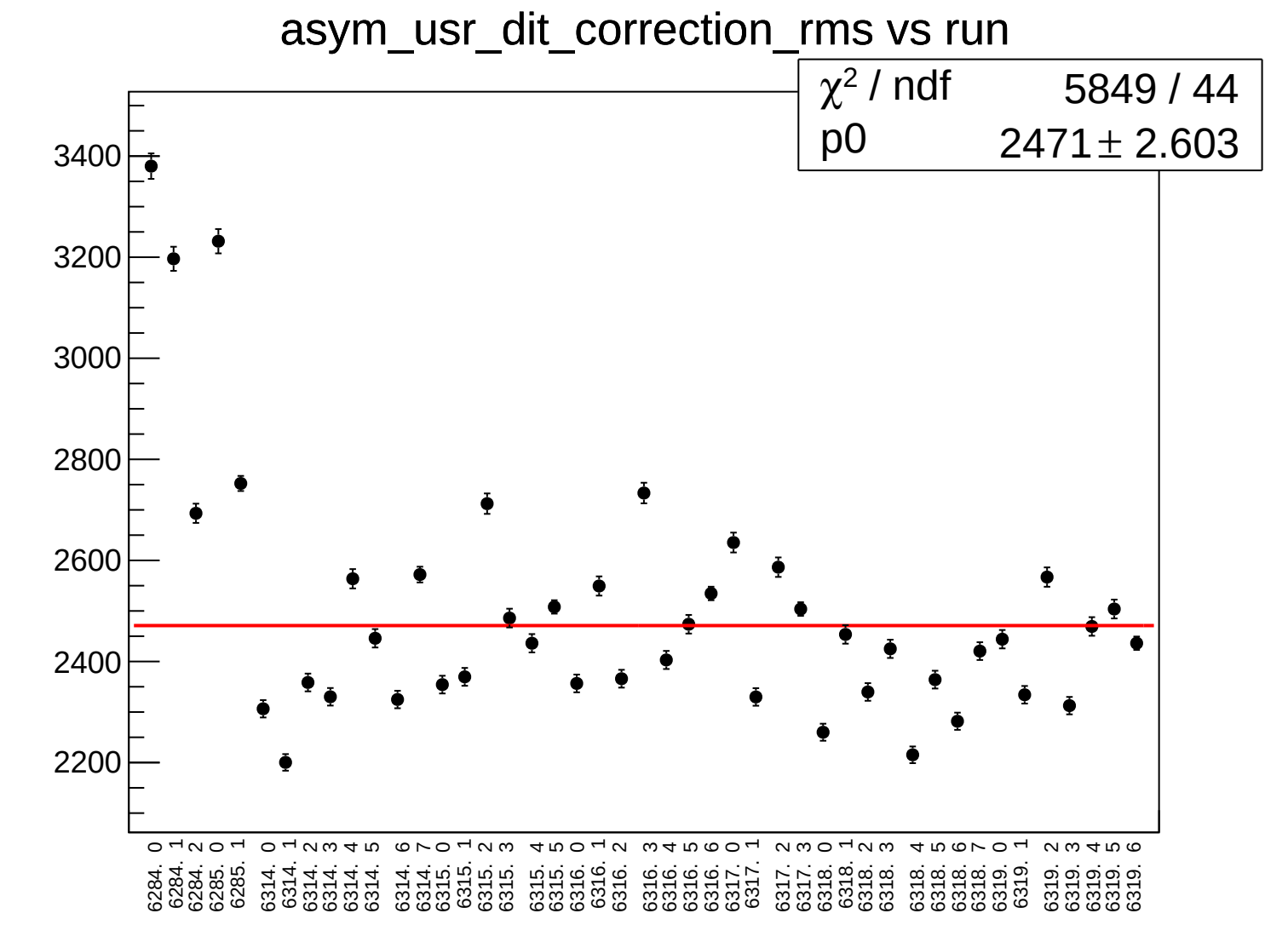

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 9380 / 44
p0 2411 ± 2.545
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

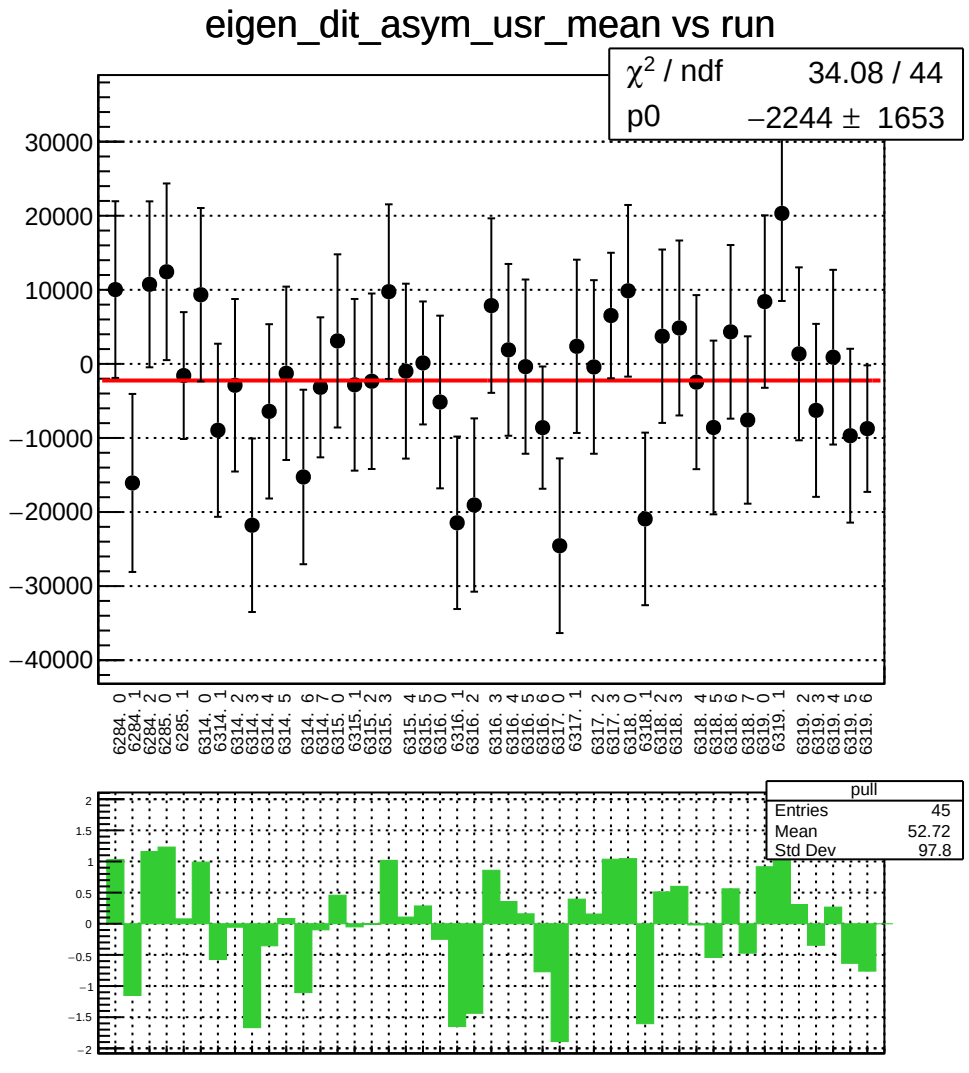

dit_asym_usr_mean vs run
χ² / ndf 34.08 / 44
p0 −2244 ± 1653
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 52.71
Std Dev 97.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001738
Std Dev 0.8702
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

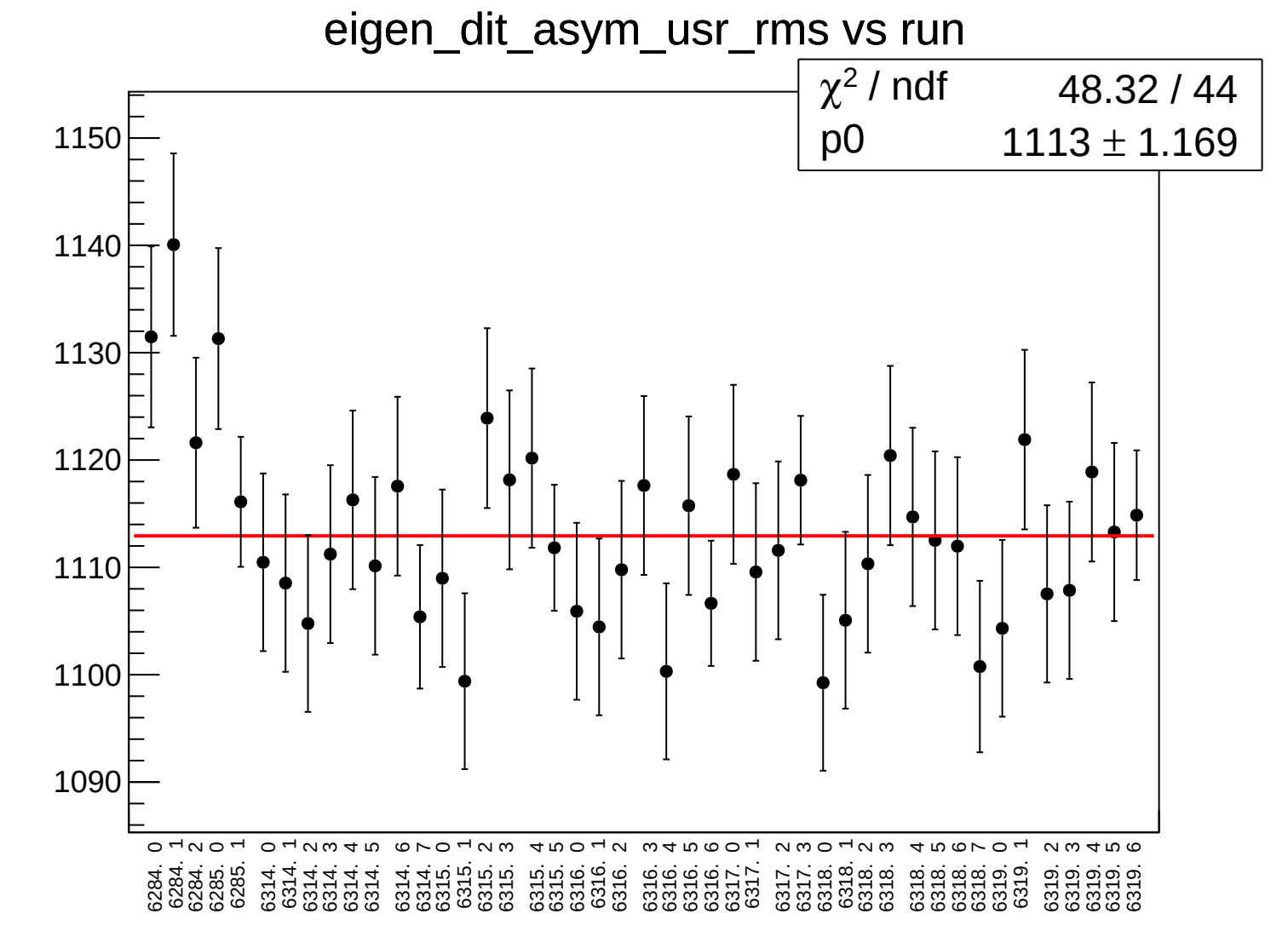

dit_asym_usr_rms vs run
χ² / ndf 48.32 / 44
p0 1113 ± 1.169
1150
1140
1130
1120
1110
1100
1090
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

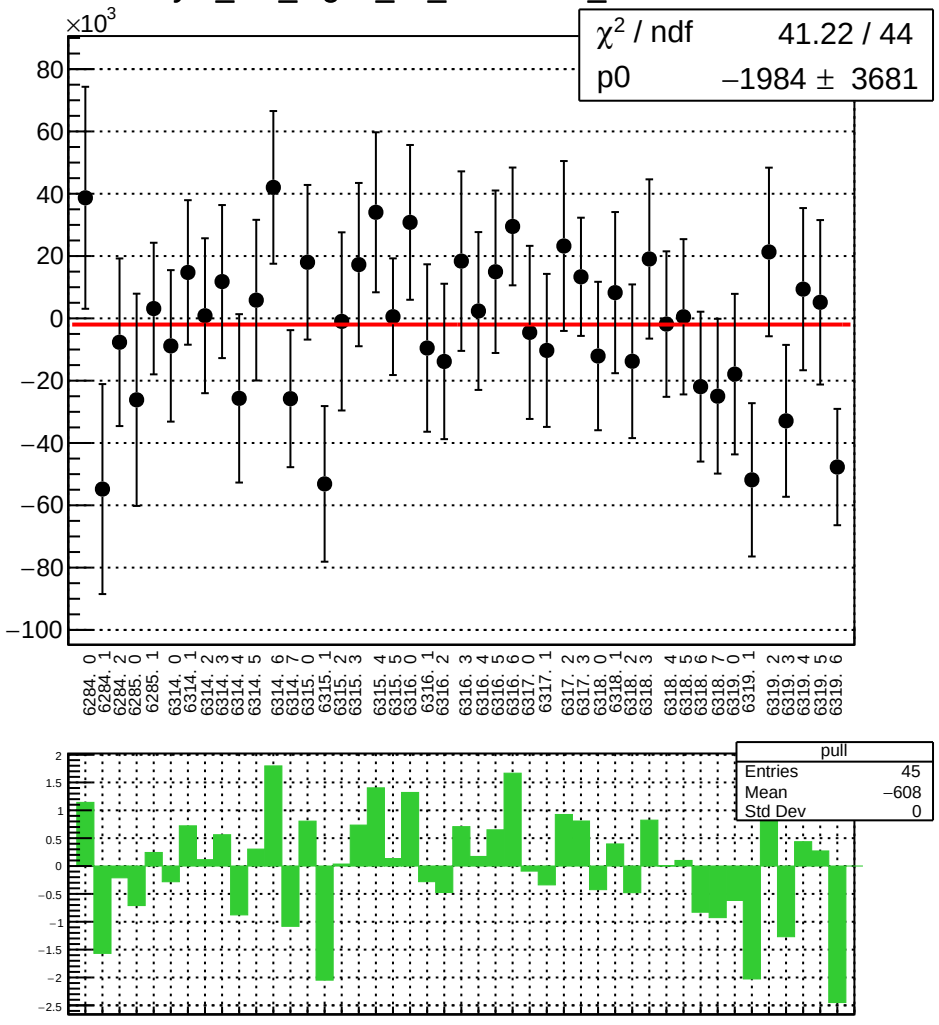

asym_usr_dit_correction_mean vs run
χ² / ndf 41.22 / 44
p0 −1984 ± 3681
pull
Entries 45
Mean −608
Std Dev 0

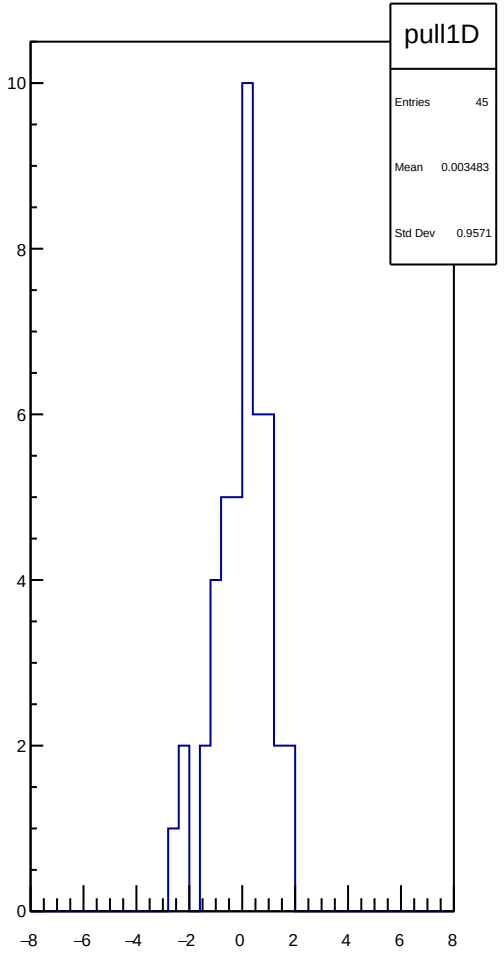

pull1D
Entries 45
Mean 0.003483
Std Dev 0.9571

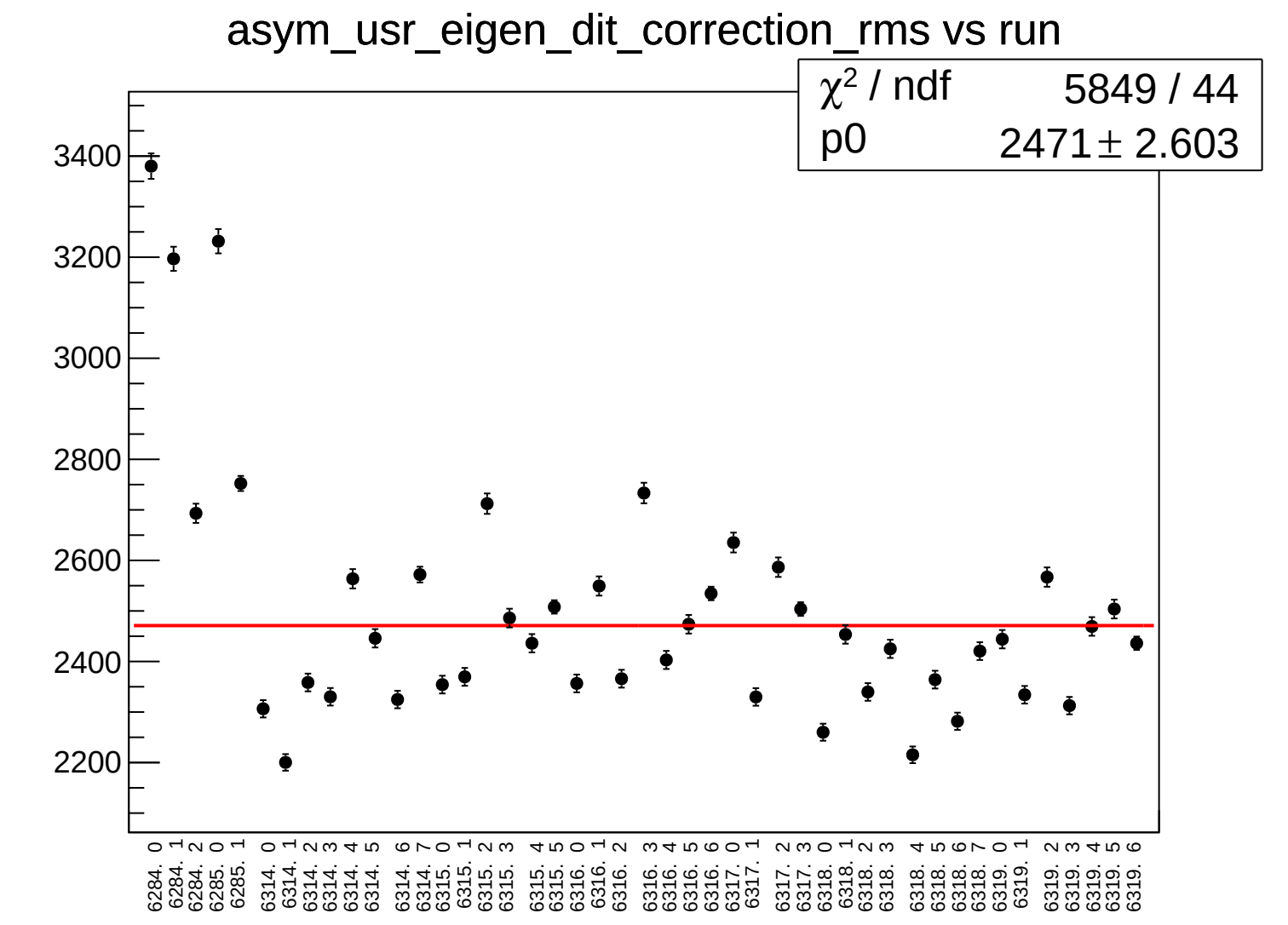

asym_usr_dit_correction_rms vs run
χ² / ndf 5849 / 44
p0 2471 ± 2.603
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_usr_mean vs run
χ² / ndf 34.08 / 44
p0 −2244 ± 1653
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 52.72
Std Dev 97.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001739
Std Dev 0.8702
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_rms vs run
χ² / ndf 48.32 / 44
p0 1113 ± 1.169
1150
1140
1130
1120
1110
1100
1090
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −1984 ± 3681
pull
Entries 45
Mean −608
Std Dev 0


pull1D
Entries 45
Mean 0.003483
Std Dev 0.9571


asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 5849 / 44
p0 2471 ± 2.603
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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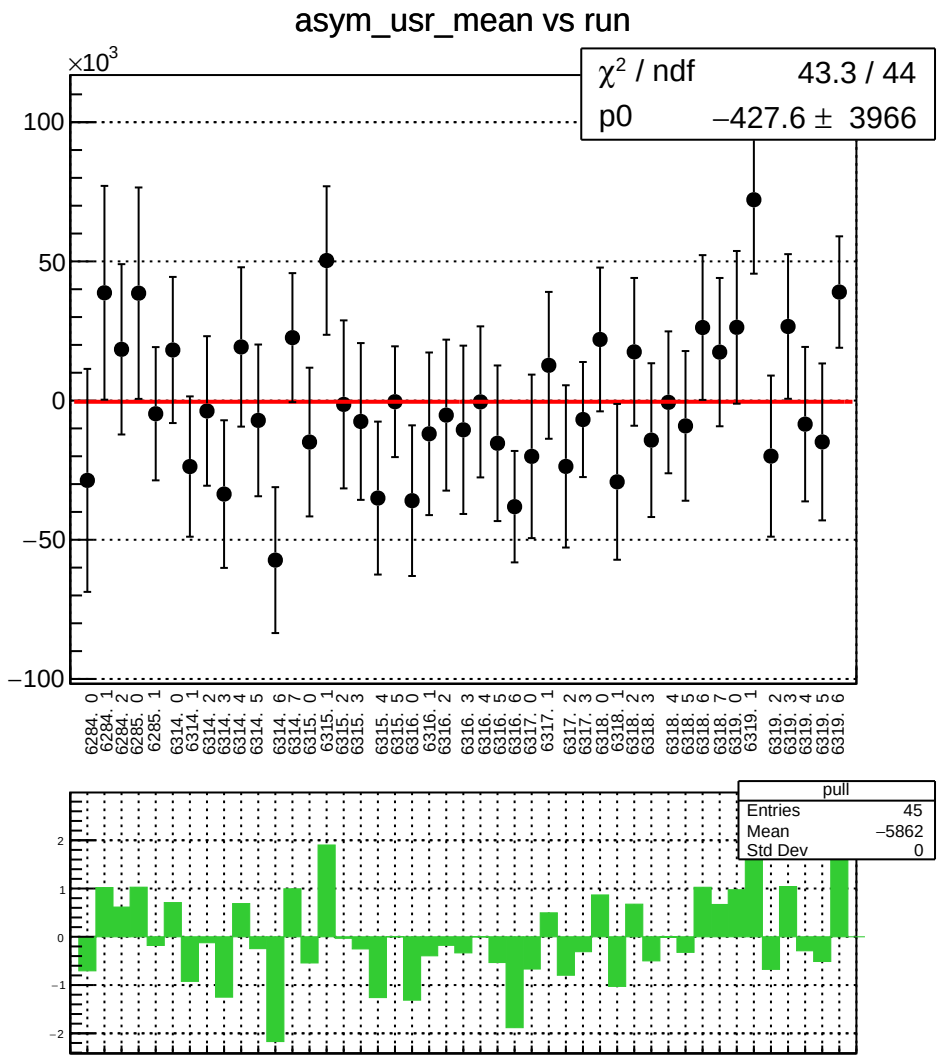
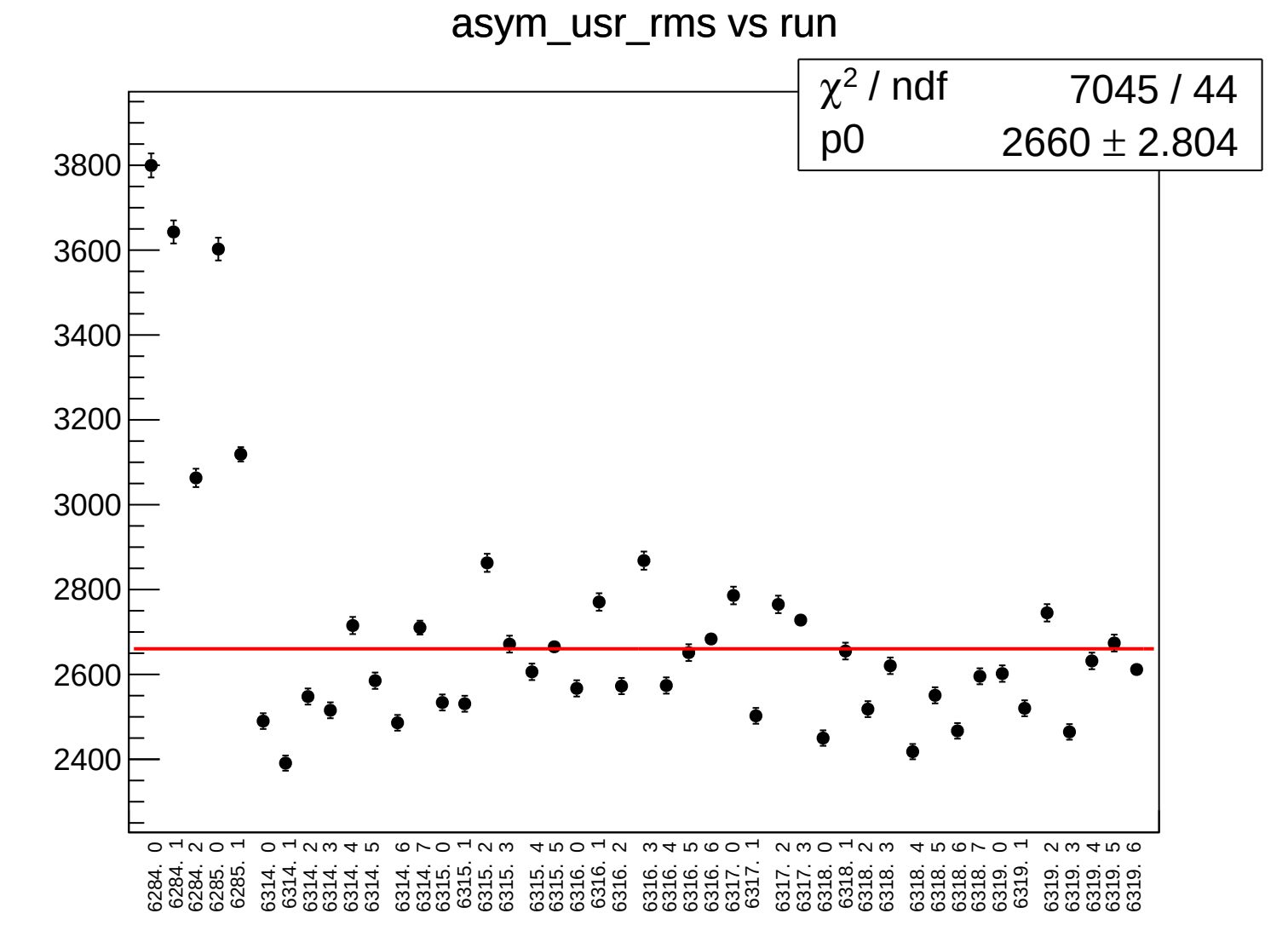
6319. 5
6319. 6


asym_usr_mean vs run
×10^3
χ² / ndf 43.3 / 44
p0 −427.6 ± 3966
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −5862
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0003768
Std Dev 0.9809
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 7045 / 44
p0 2660 ± 2.804
3800
3600
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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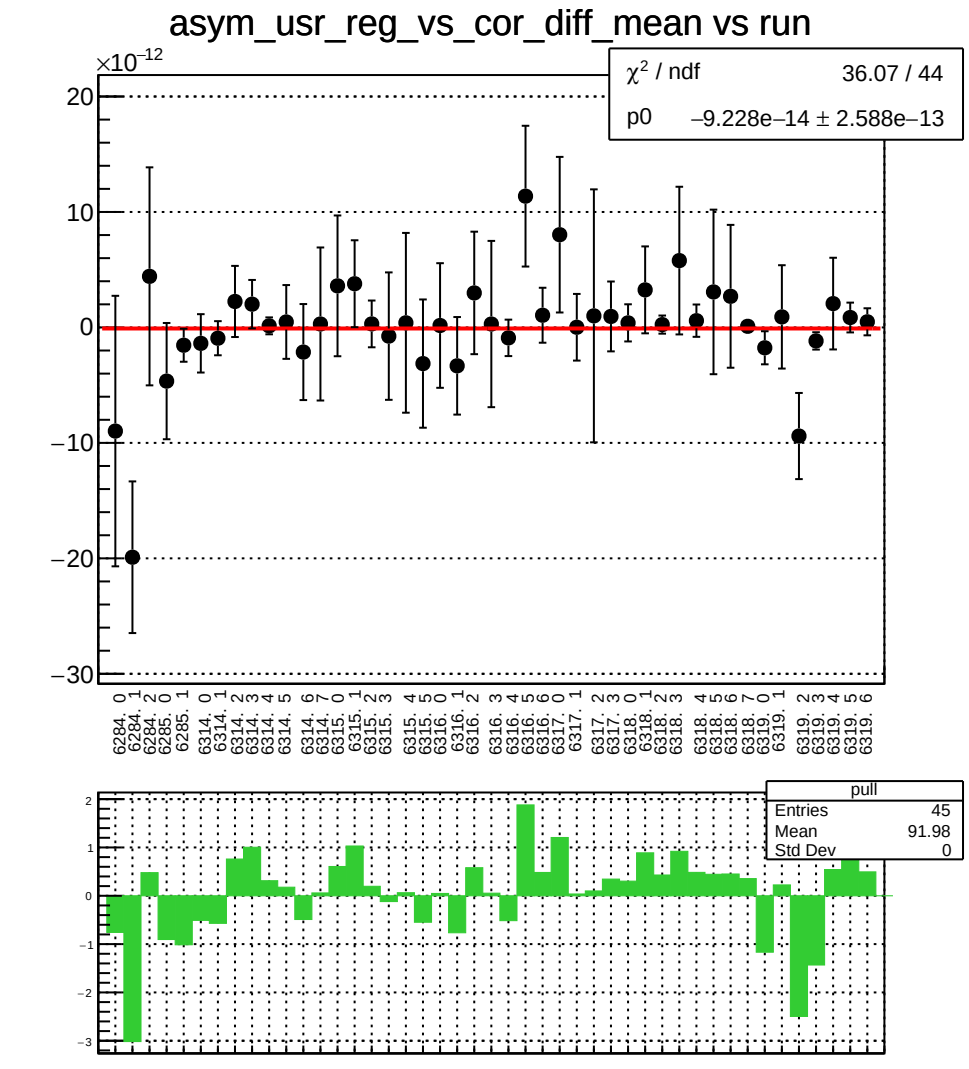
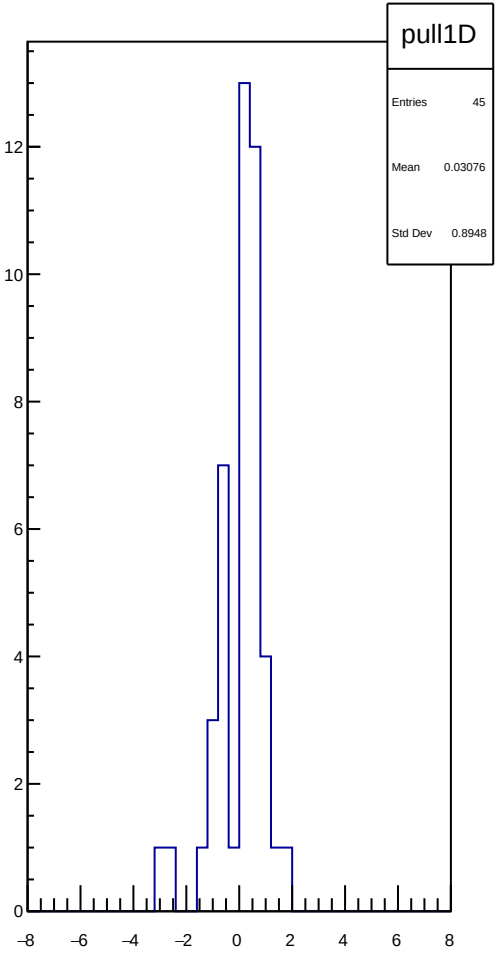
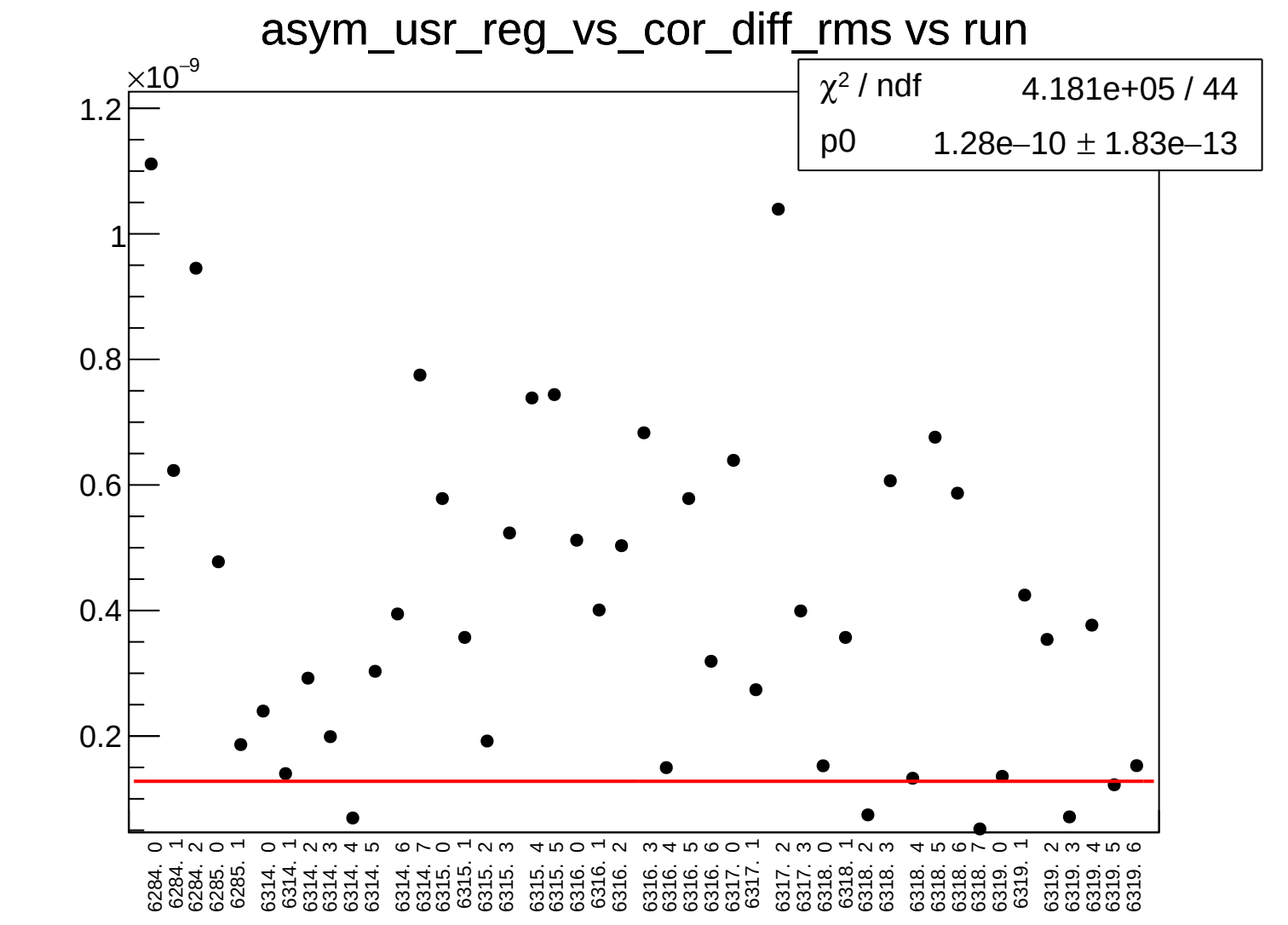
6319. 5
6319. 6


asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.07 / 44
p0 −9.228e−14 ± 2.588e−13
pull
Entries 45
Mean 91.98
Std Dev 0


pull1D
Entries 45
Mean 0.03076
Std Dev 0.8948


asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.181e+05 / 44
p0 1.28e−10 ± 1.83e−13
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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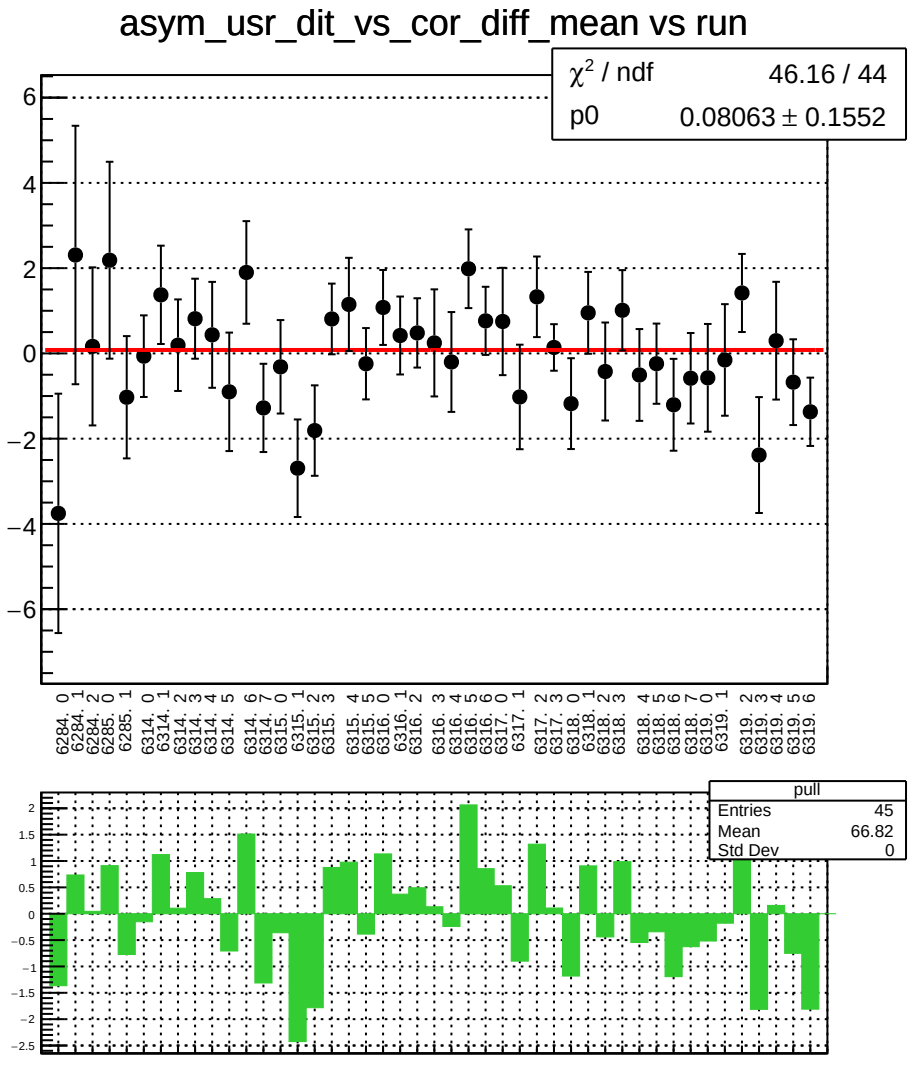
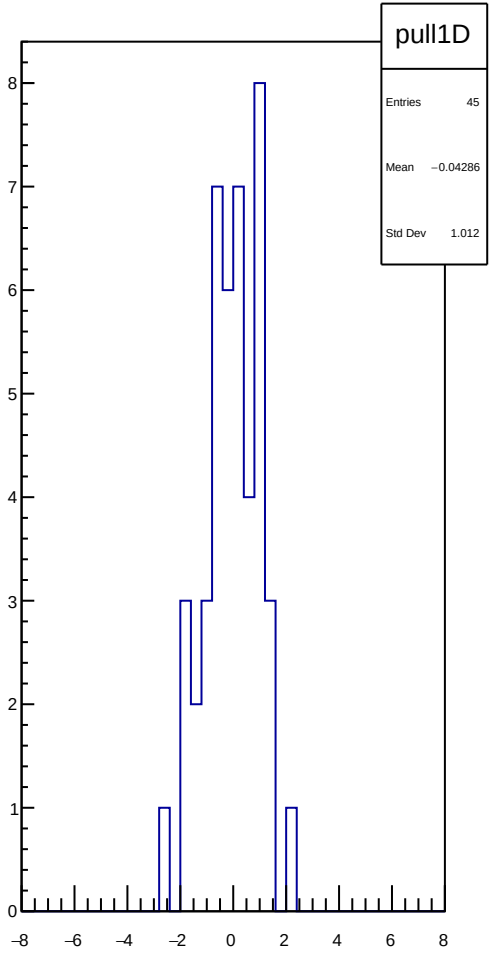
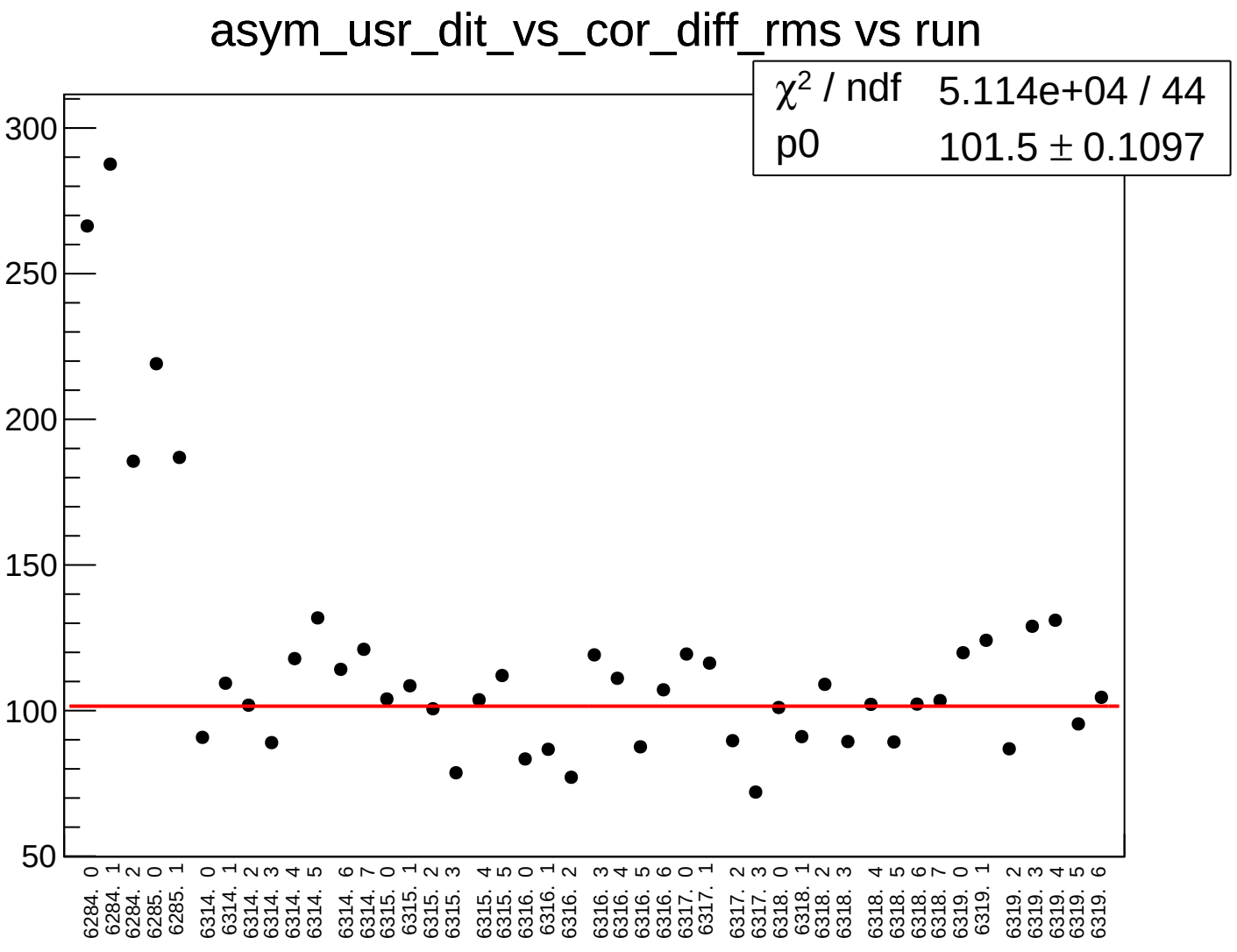
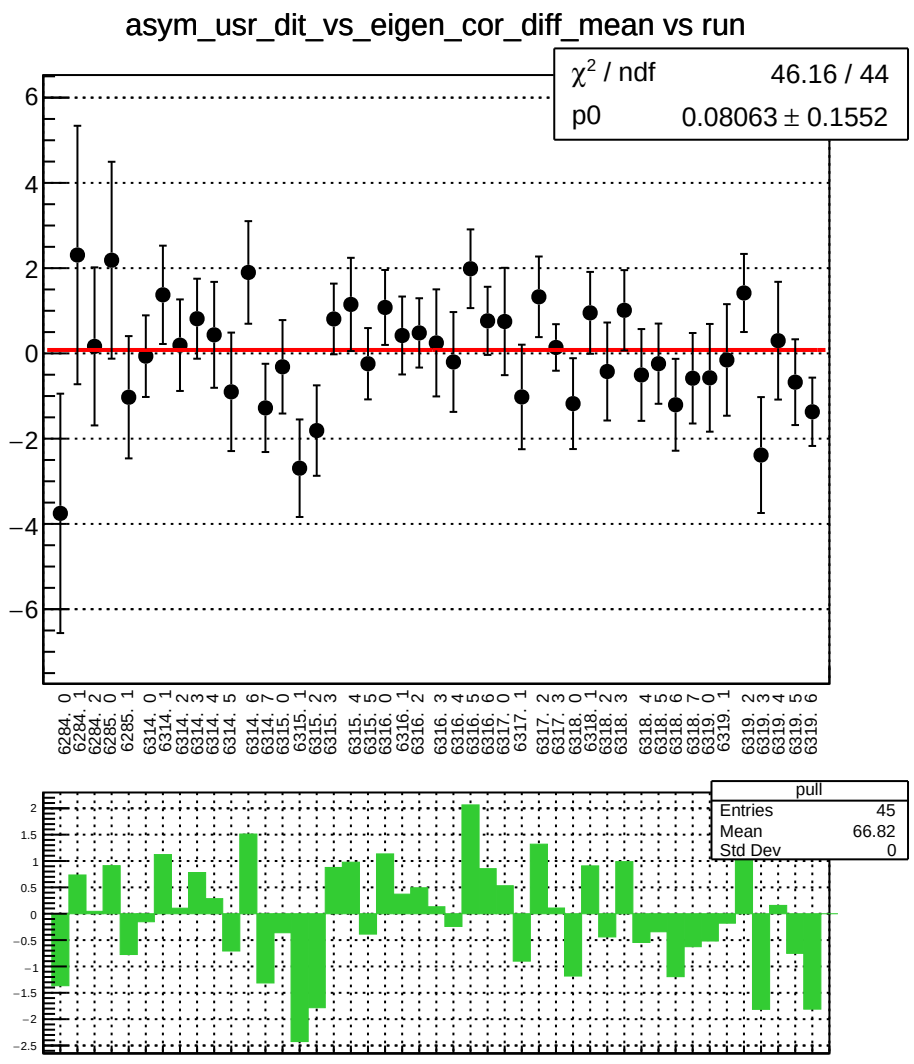
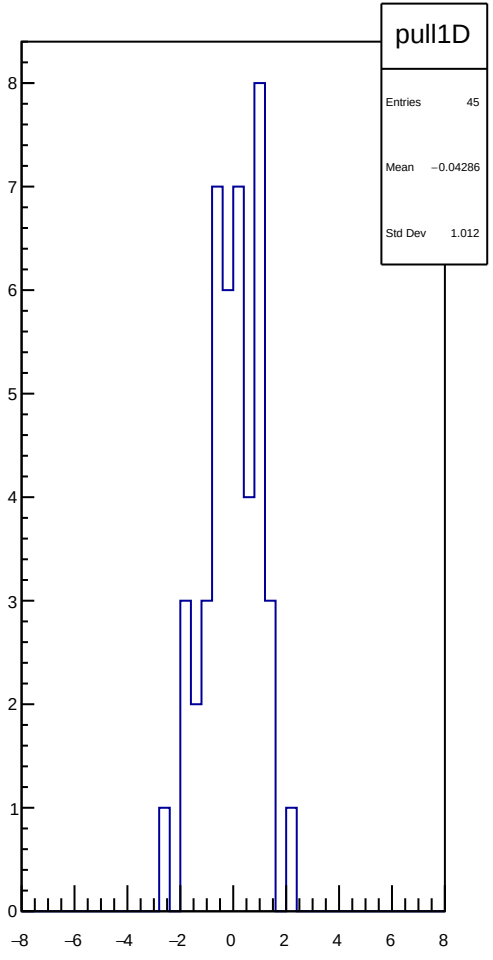
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

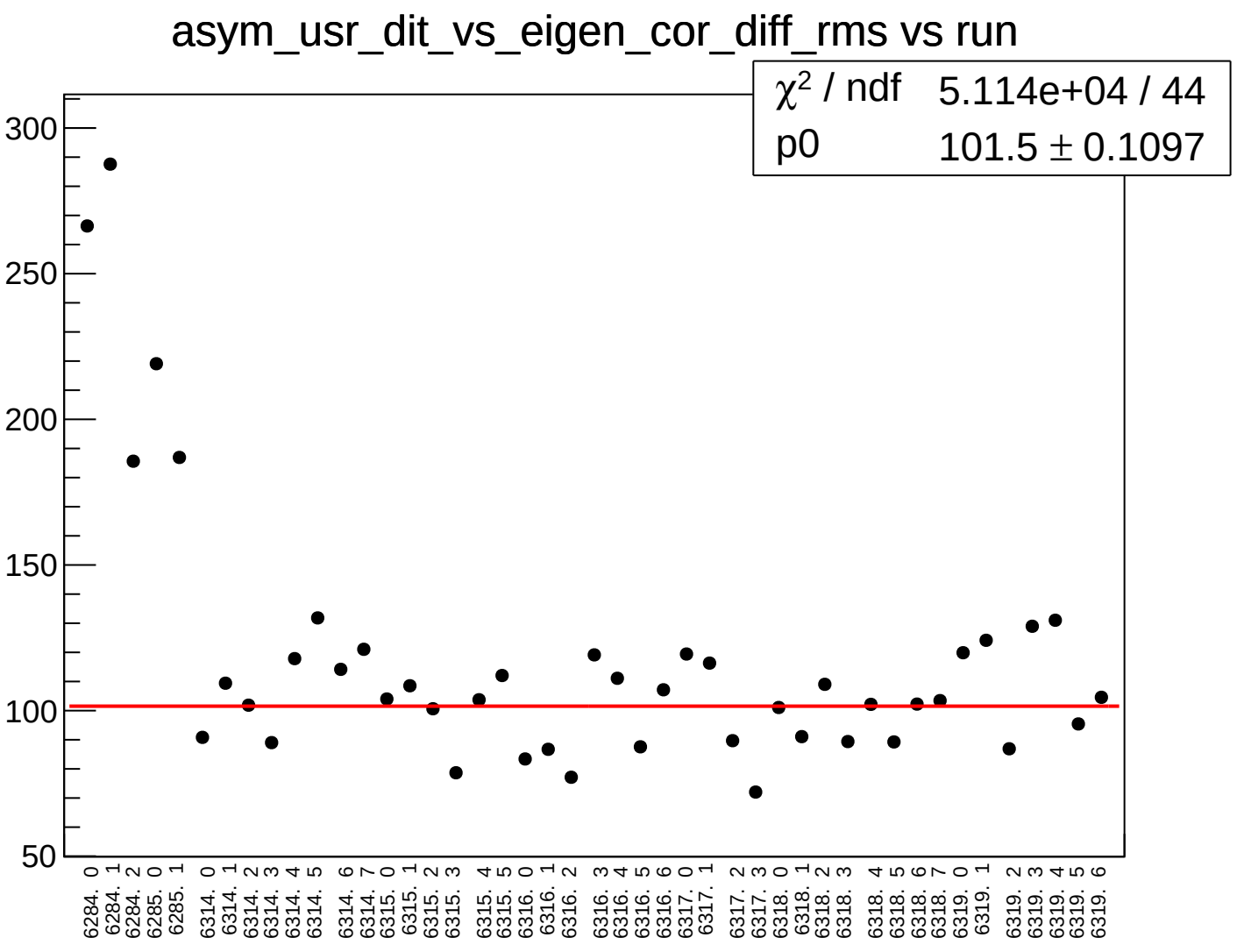

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 46.16 / 44
p0 0.08063 ± 0.1552
pull
Entries 45
Mean 66.82
Std Dev 0

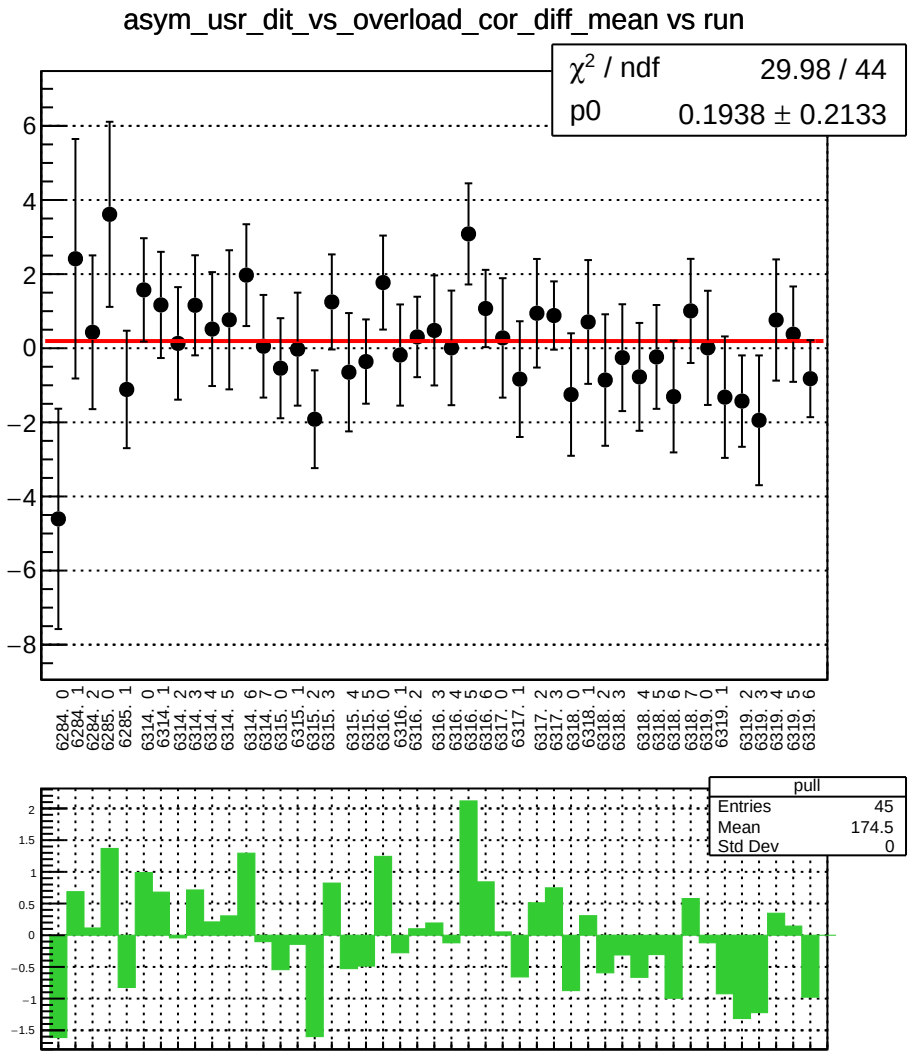

pull1D
Entries 45
Mean −0.04286
Std Dev 1.012

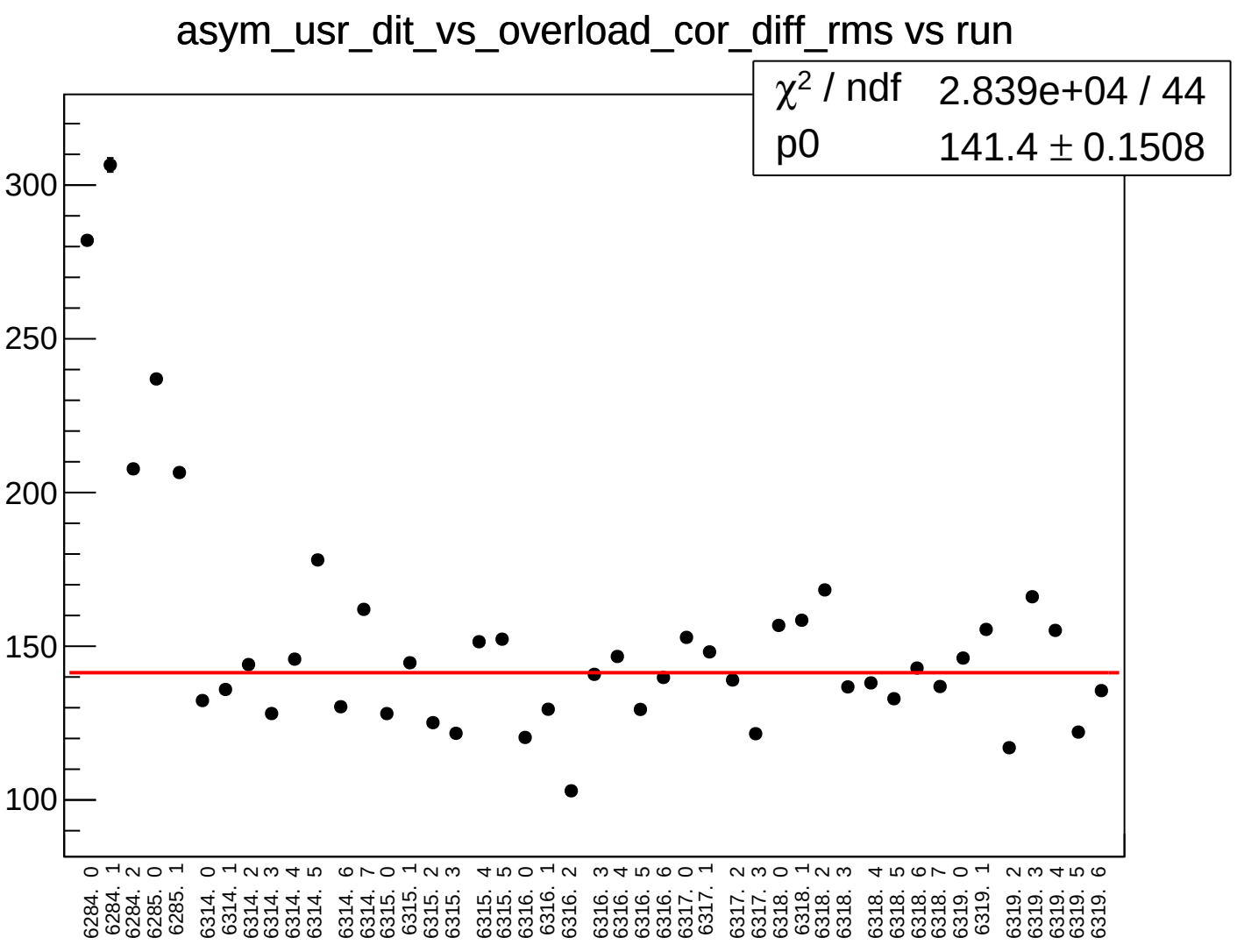

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 5.114e+04 / 44
p0 101.5 ± 0.1097
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

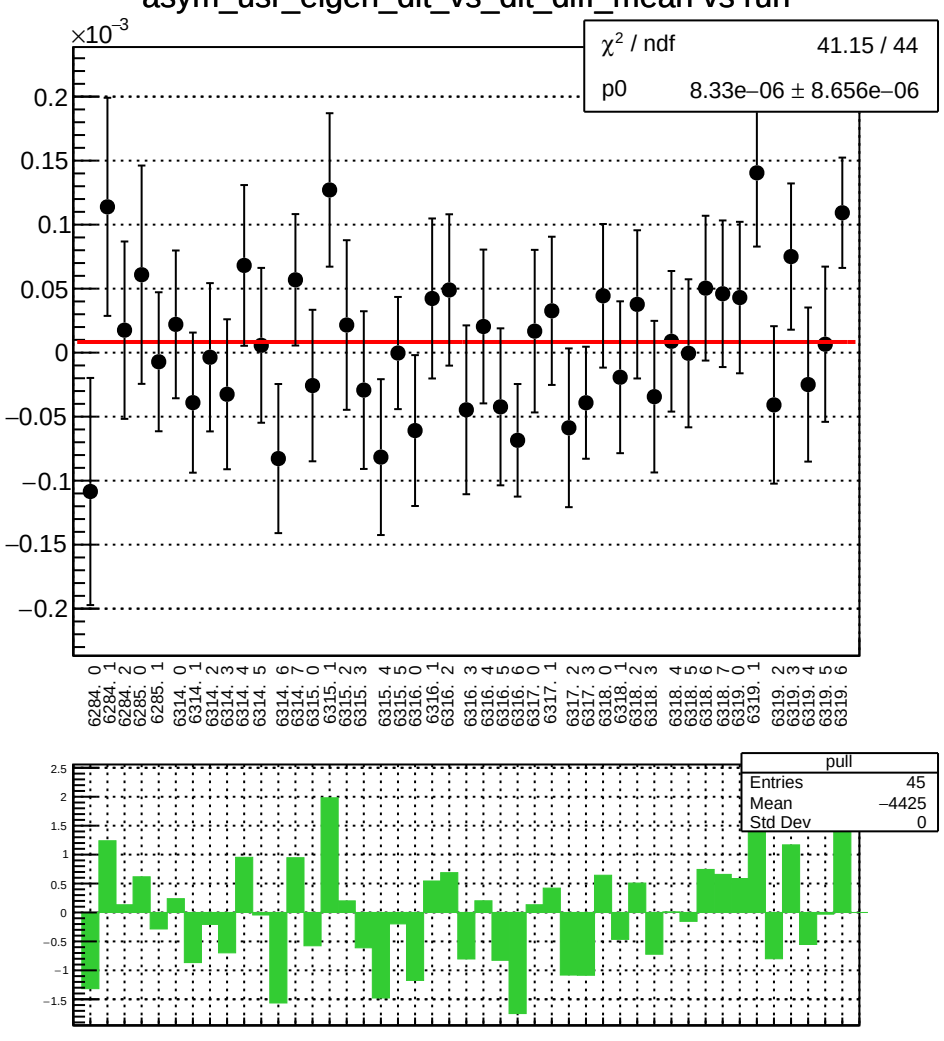

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.16 / 44
p0 0.08063 ± 0.1552
pull
Entries 45
Mean 66.82
Std Dev 0

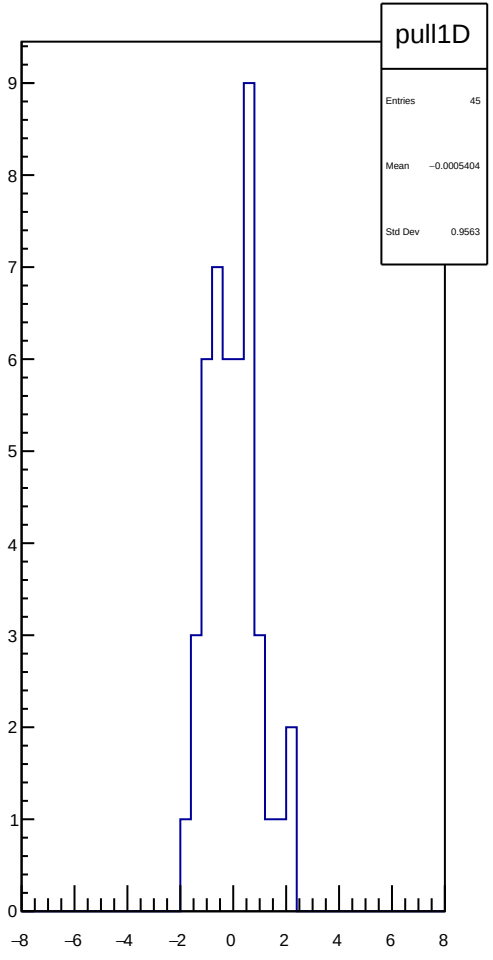

pull1D
Entries 45
Mean −0.04286
Std Dev 1.012

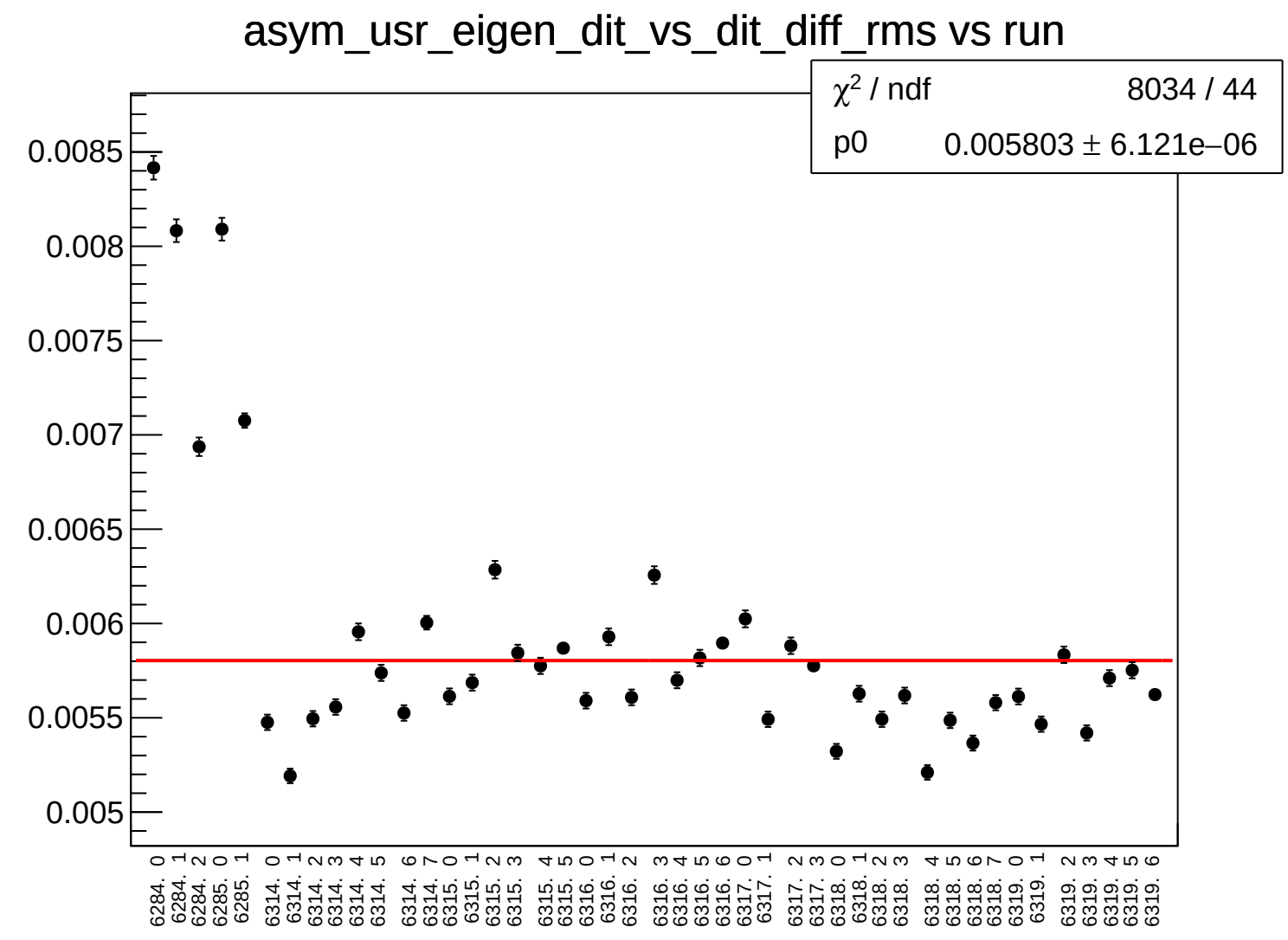

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.114e+04 / 44
p0 101.5 ± 0.1097
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

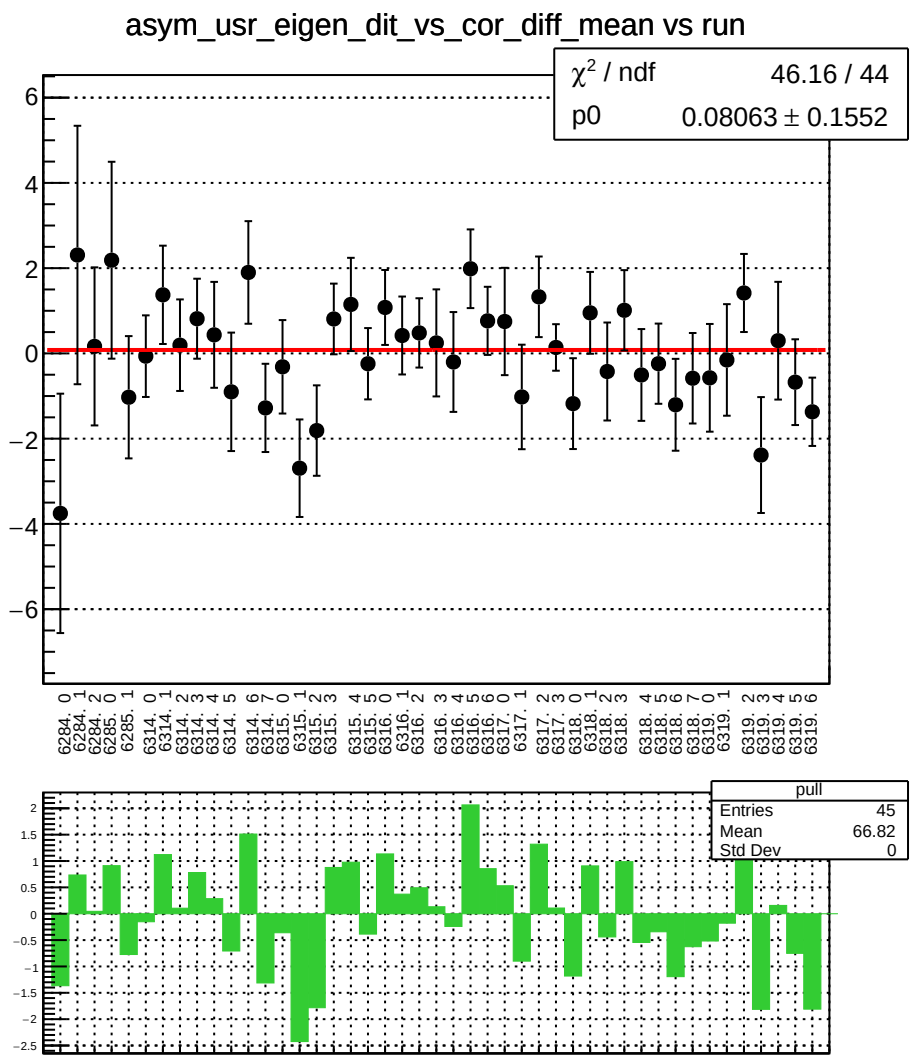

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.98 / 44
p0 0.1938 ± 0.2133
pull
Entries 45
Mean 174.5
Std Dev 0
pull1D
Entries 45
Mean −0.01906
Std Dev 0.816

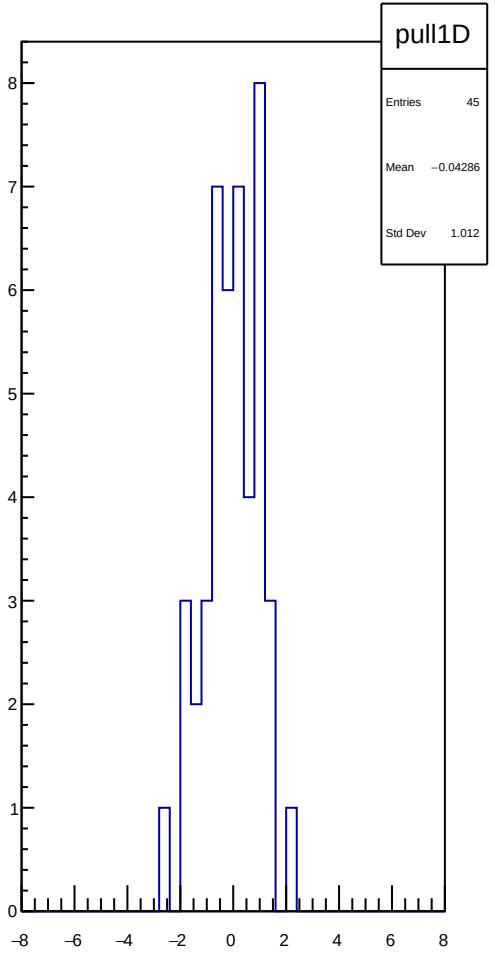

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 44
p0 141.4 ± 0.1508
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

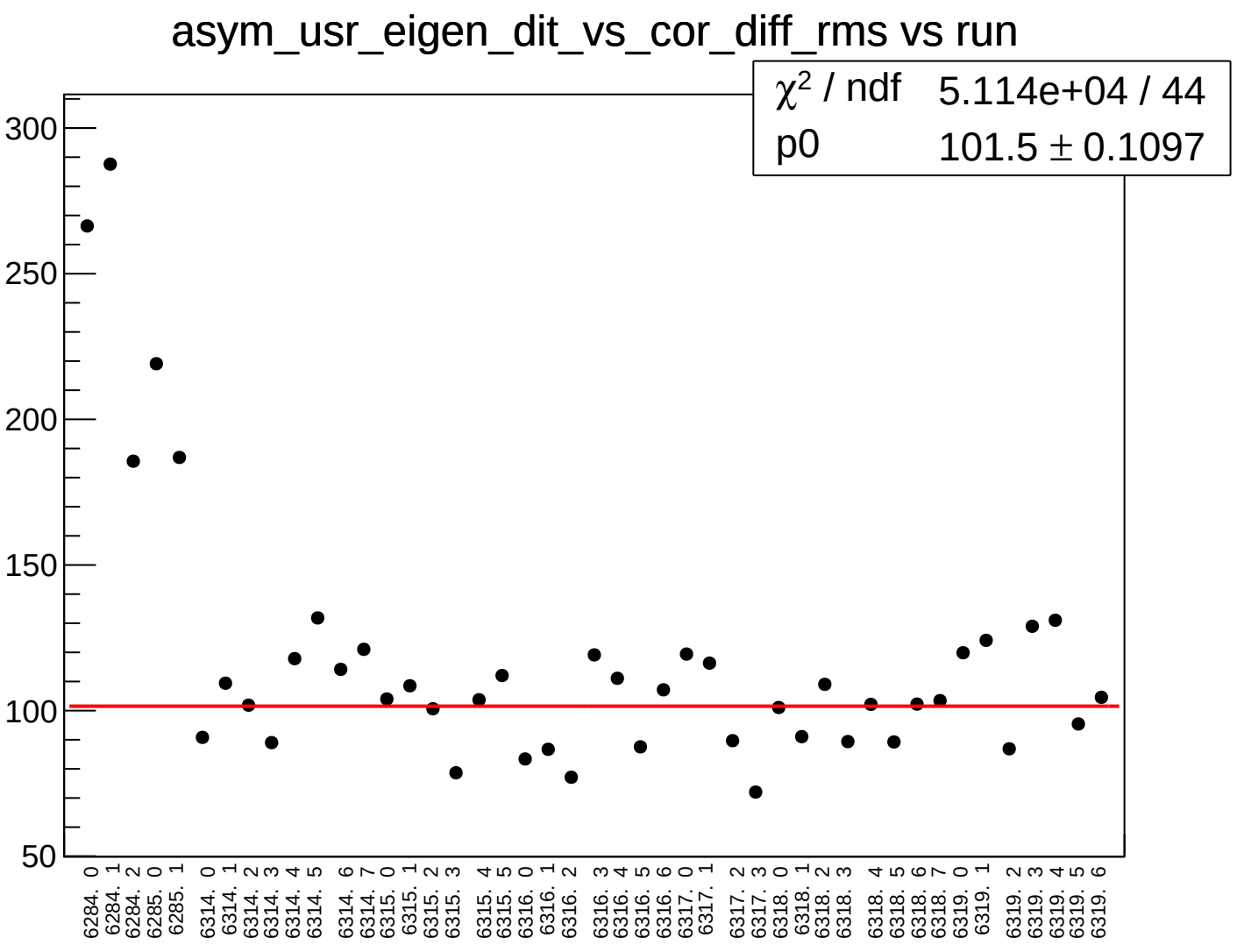

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.15 / 44
p0 8.33e−06 ± 8.656e−06
pull
Entries 45
Mean −4425
Std Dev 0

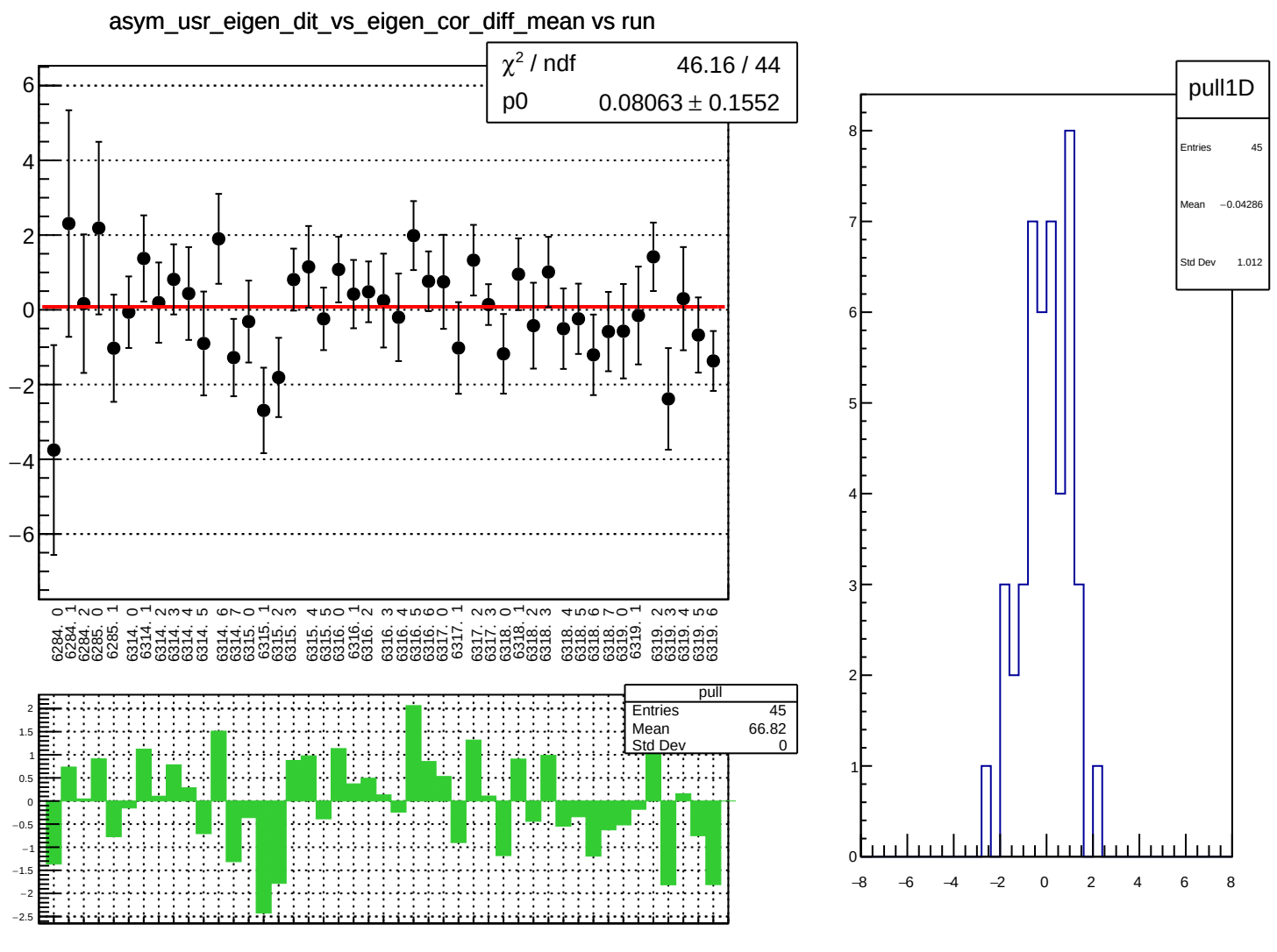

pull1D
Entries 45
Mean −0.0005404
Std Dev 0.9563

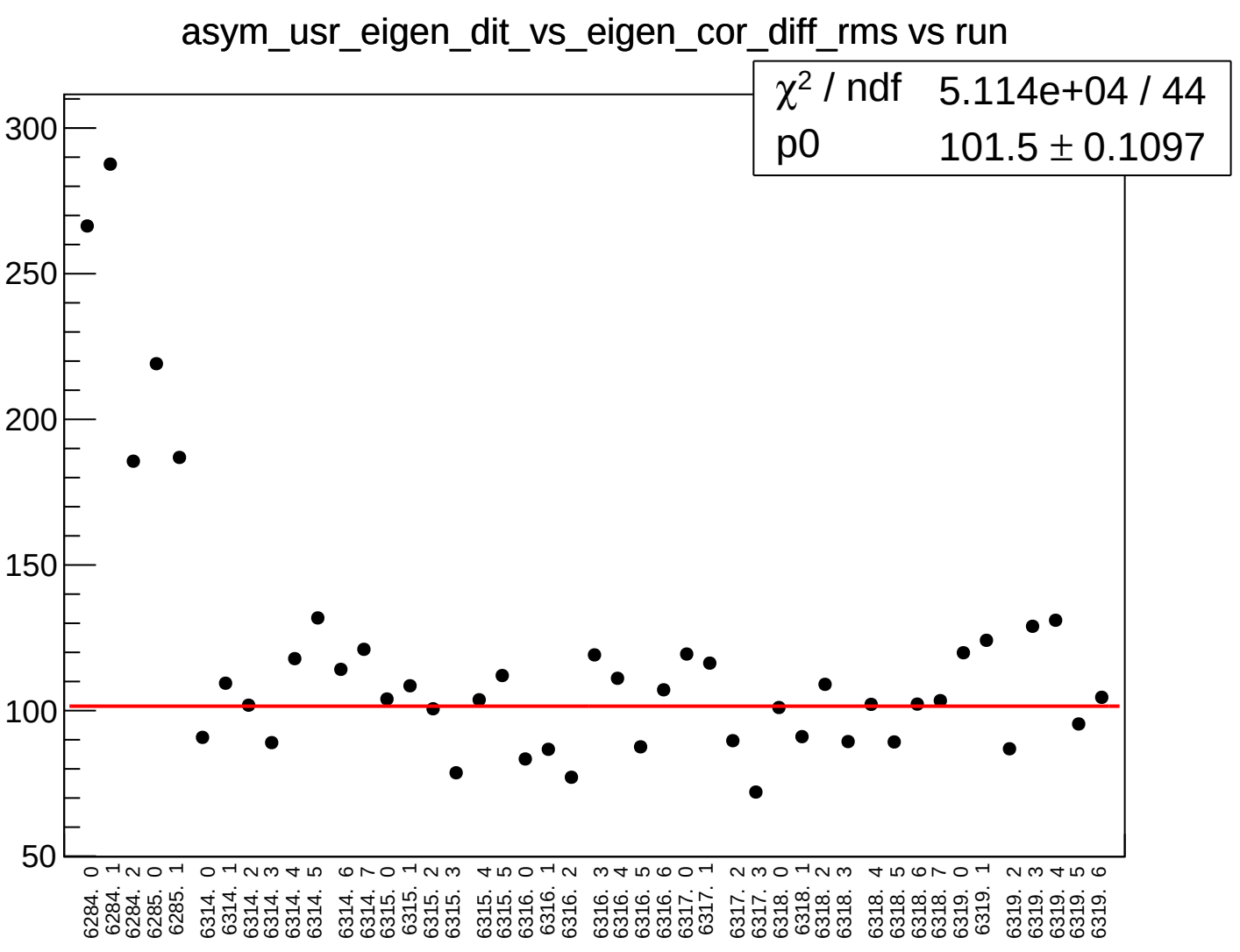

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8034 / 44
p0 0.005803 ± 6.121e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

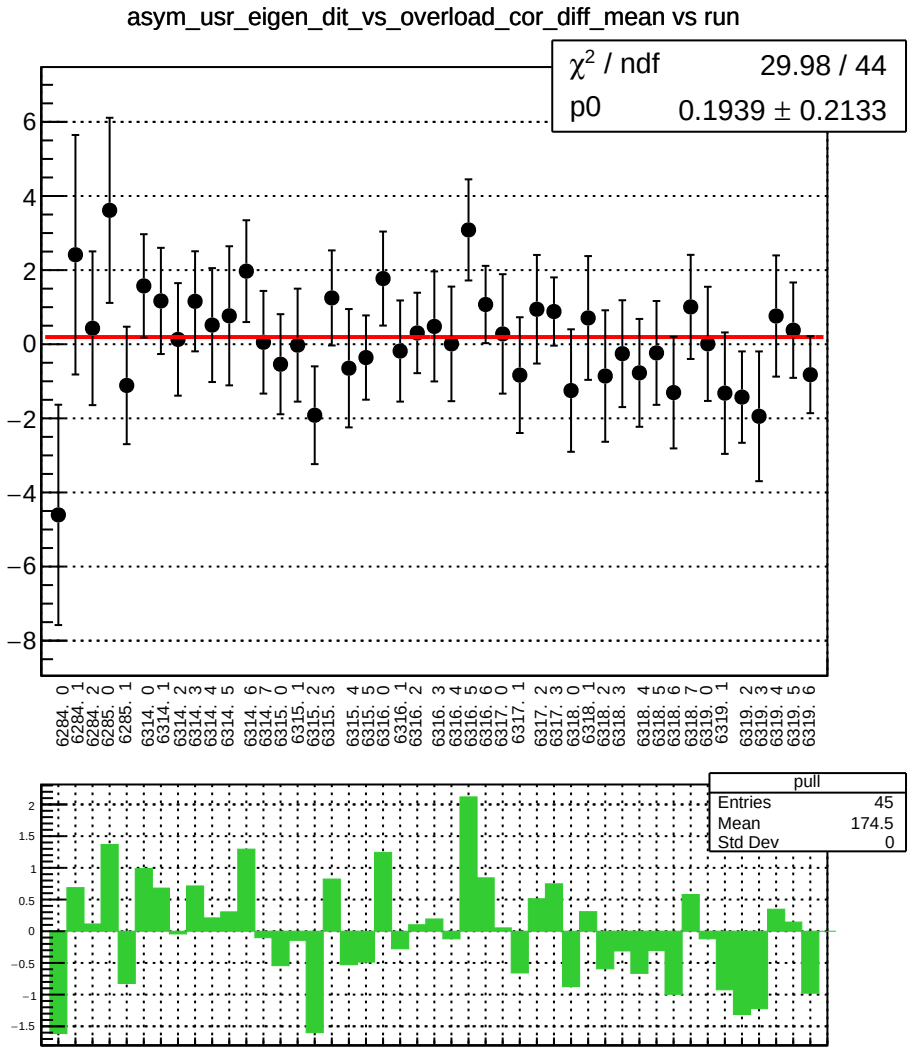

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.16 / 44
p0 0.08063 ± 0.1552
pull
Entries 45
Mean 66.82
Std Dev 0

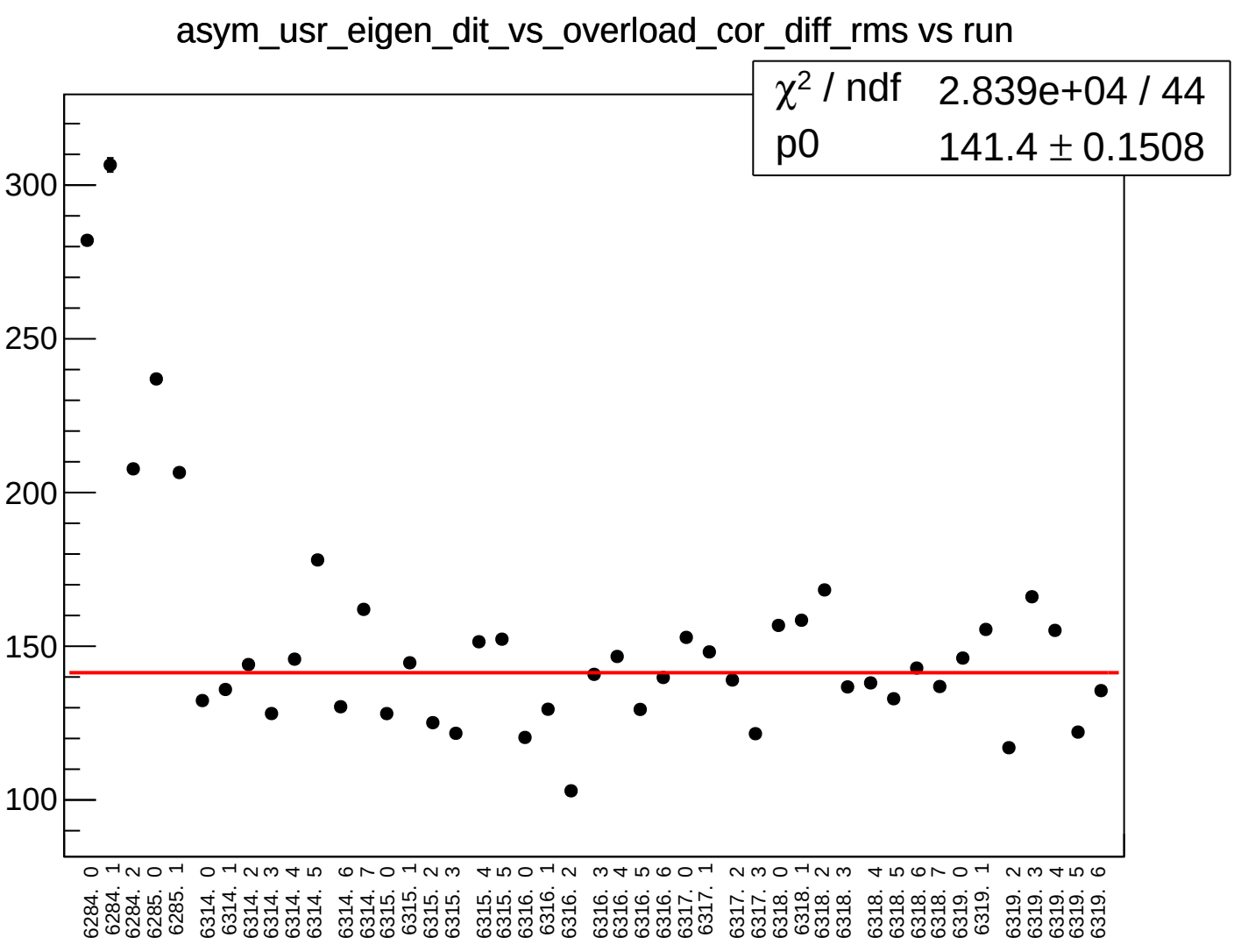

pull1D
Entries 45
Mean −0.04286
Std Dev 1.012

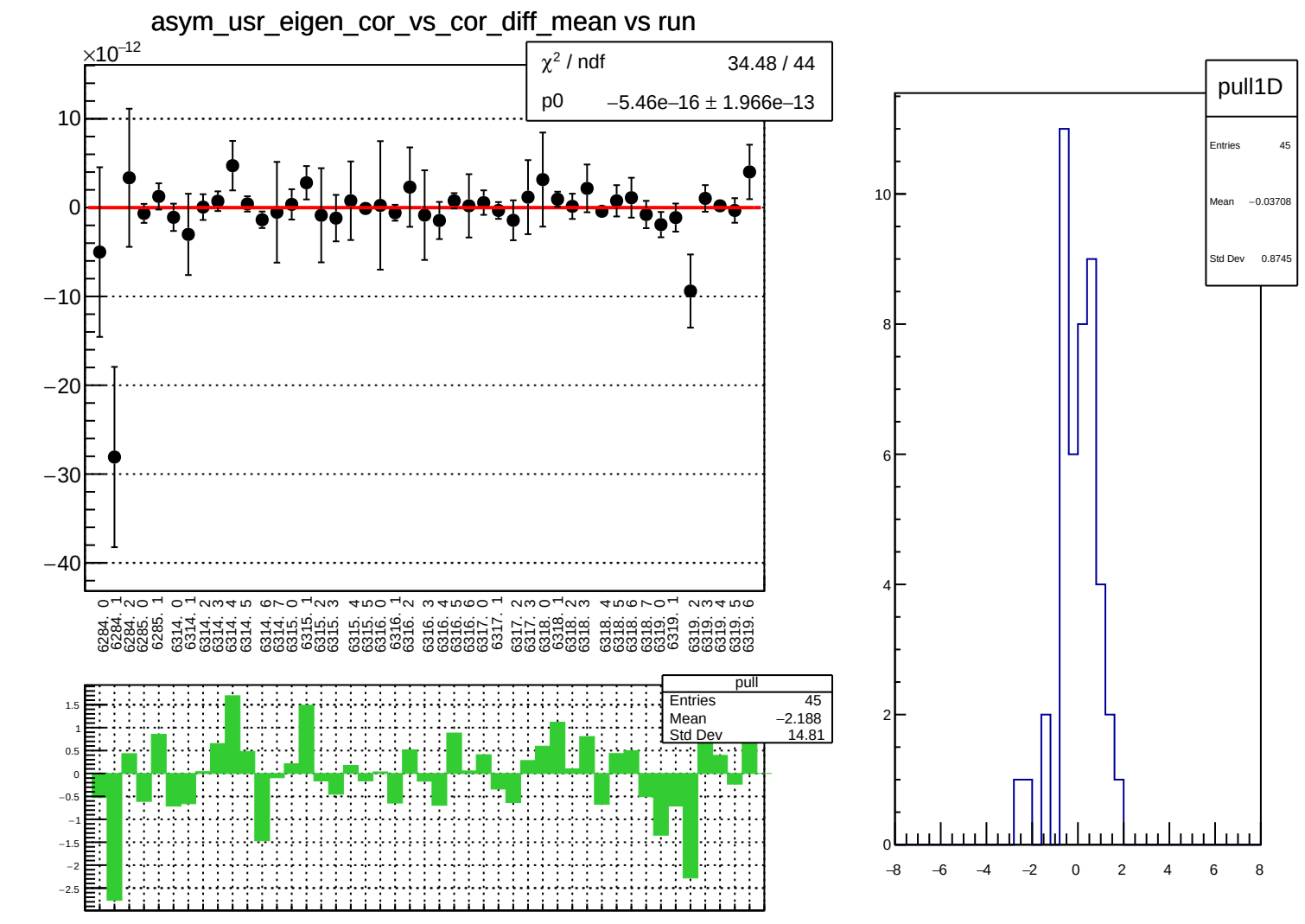

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.114e+04 / 44
p0 101.5 ± 0.1097
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

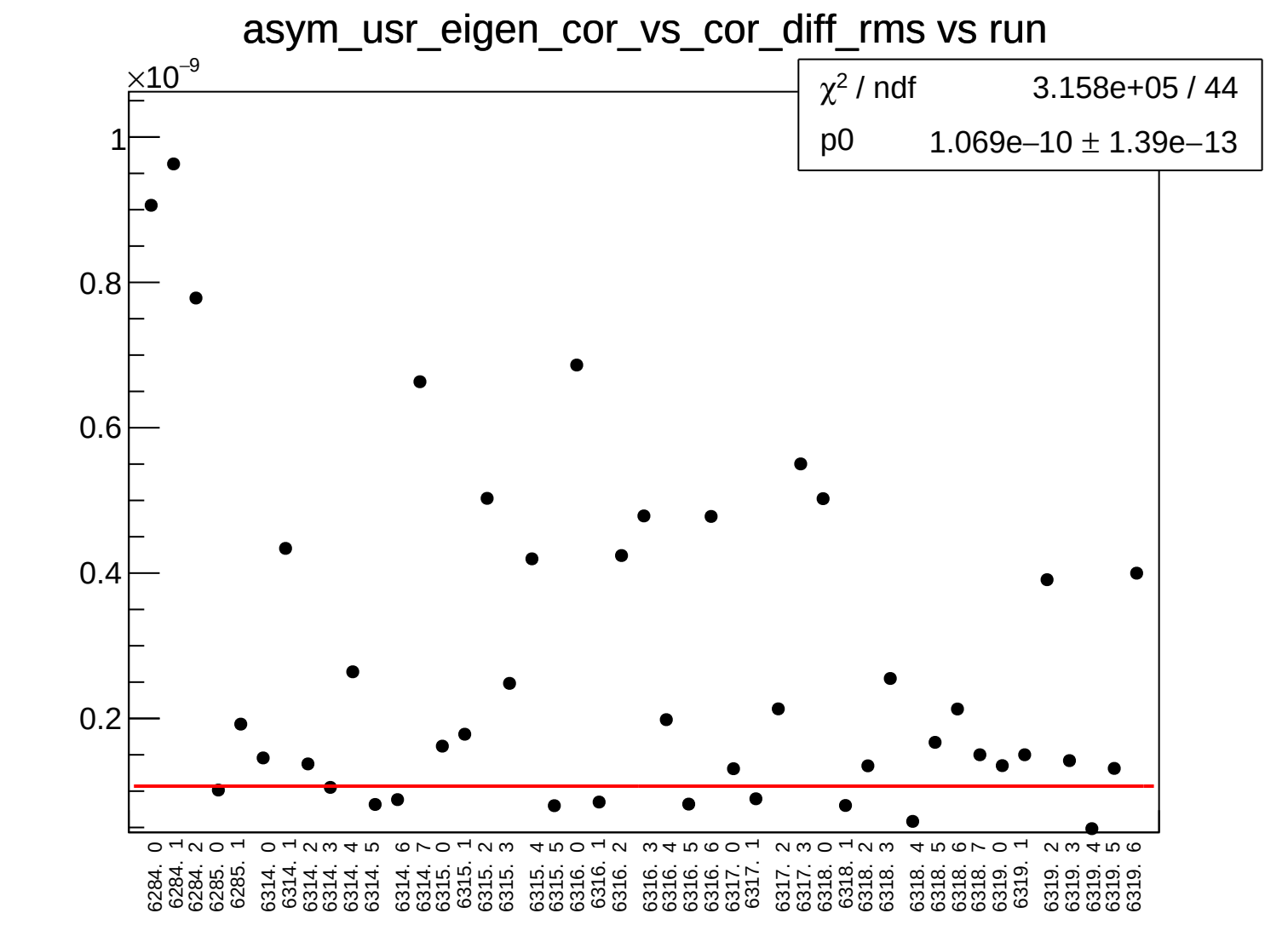

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.16 / 44
p0 0.08063 ± 0.1552
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 66.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.04286
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.114e+04 / 44
p0 101.5 ± 0.1097
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.98 / 44
p0 0.1939 ± 0.2133
pull
Entries 45
Mean 174.5
Std Dev 0
pull1D
Entries 45
Mean −0.01906
Std Dev 0.816


asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 44
p0 141.4 ± 0.1508
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.48 / 44
p0 −5.46e−16 ± 1.966e−13
10
0
−10
−20
−30
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2.188
Std Dev 14.81
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.03708
Std Dev 0.8745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.158e+05 / 44
p0 1.069e−10 ± 1.39e−13
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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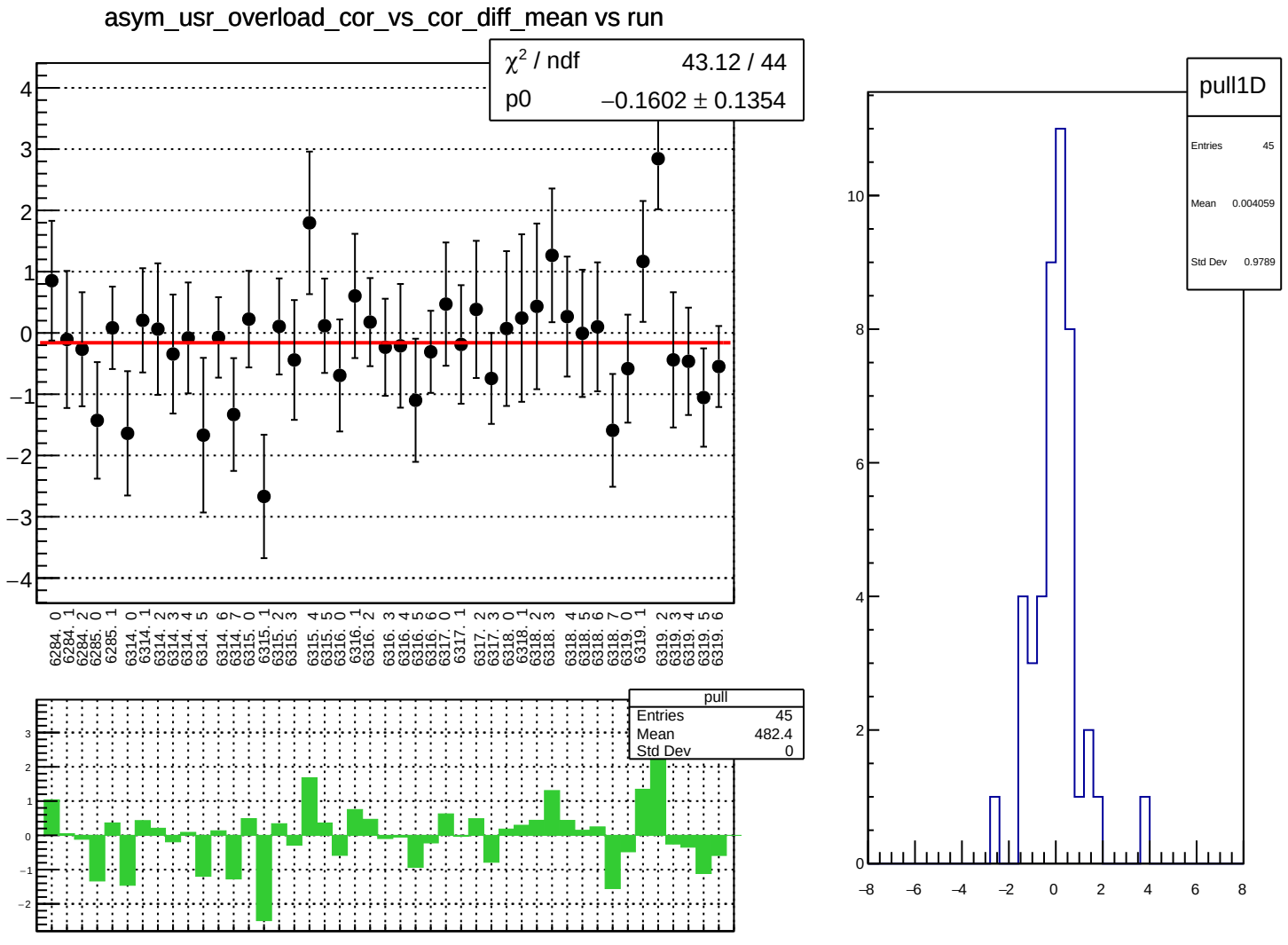
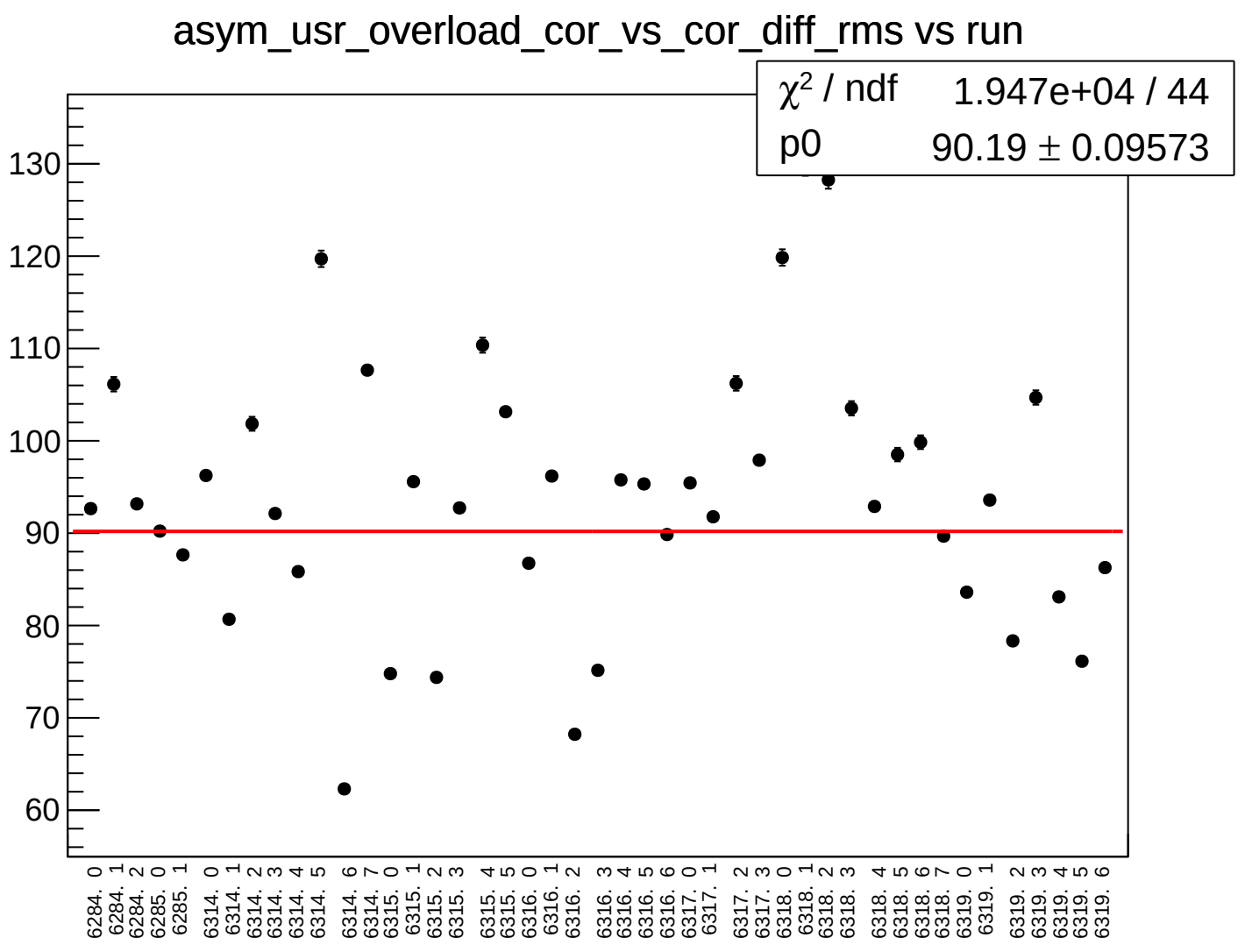
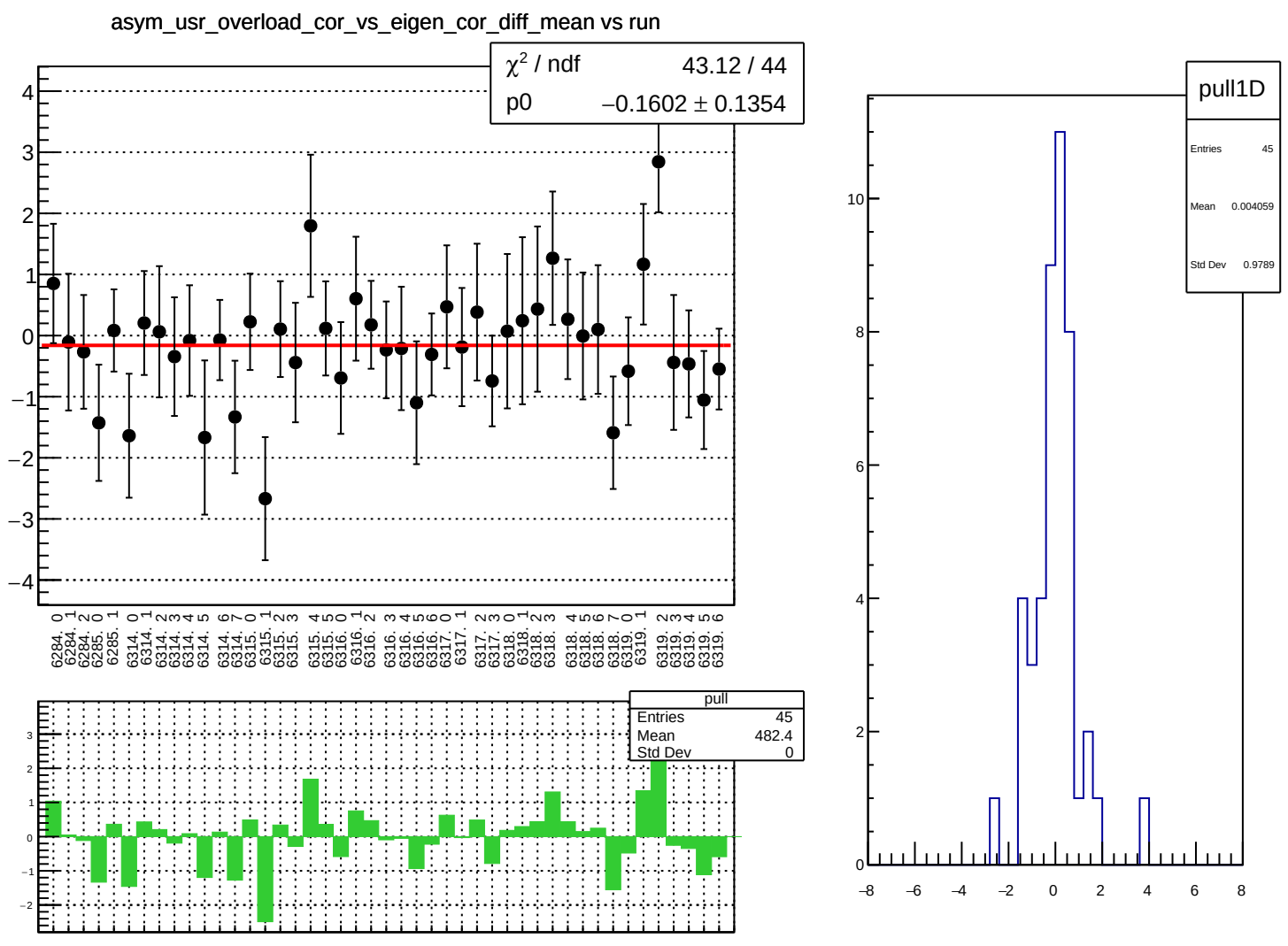
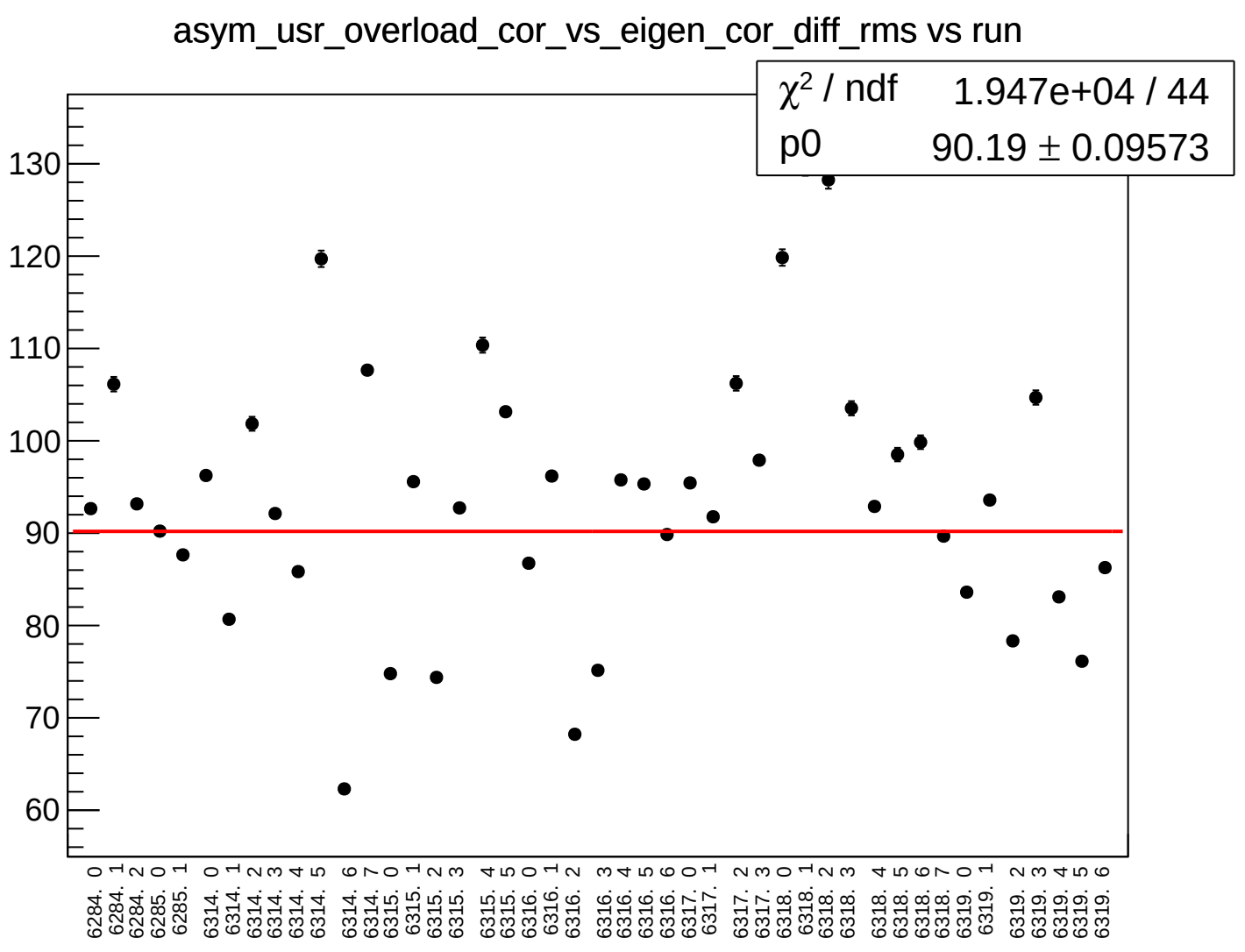
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 43.12 / 44
p0 −0.1602 ± 0.1354
pull
Entries 45
Mean 482.4
Std Dev 0
pull1D
Entries 45
Mean 0.004059
Std Dev 0.9789


asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.947e+04 / 44
p0 90.19 ± 0.09573
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.12 / 44
p0 −0.1602 ± 0.1354
pull
Entries 45
Mean 482.4
Std Dev 0
pull1D
Entries 45
Mean 0.004059
Std Dev 0.9789


asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.947e+04 / 44
p0 90.19 ± 0.09573
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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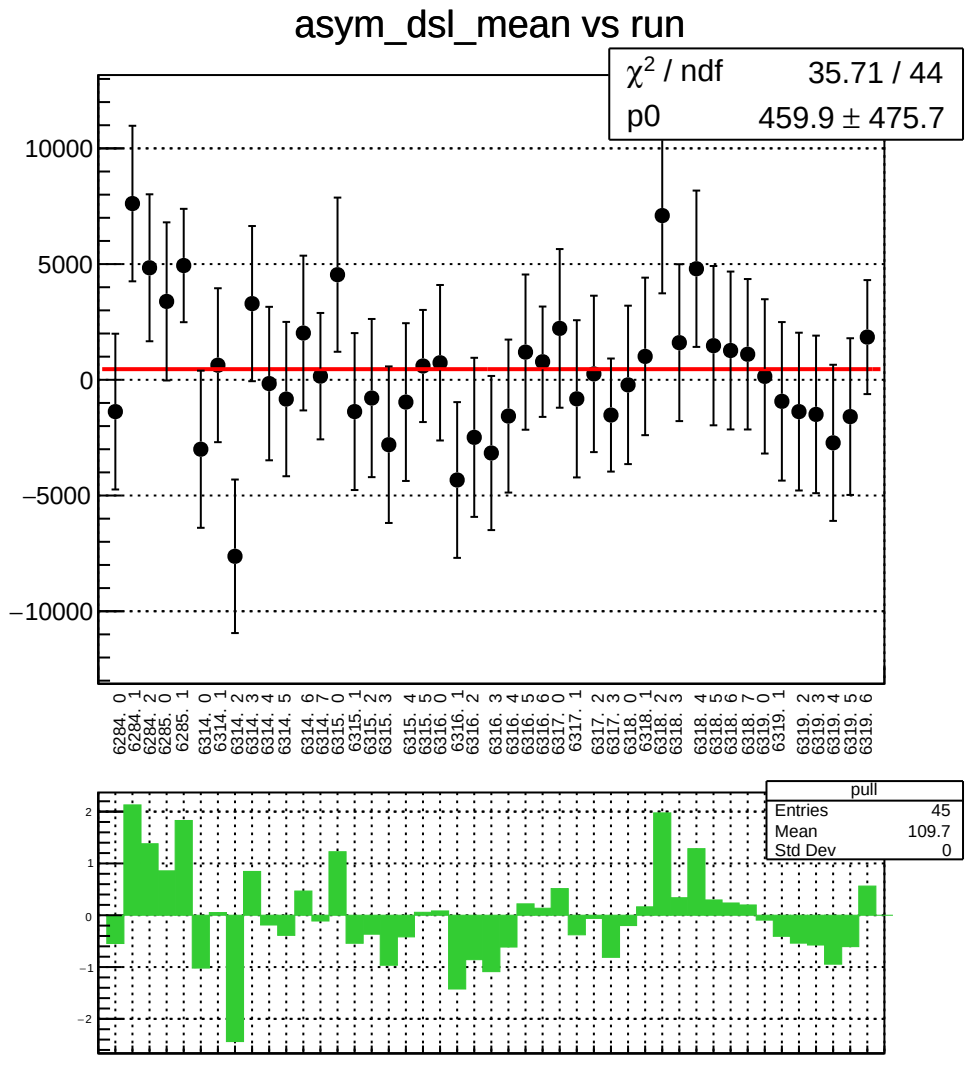
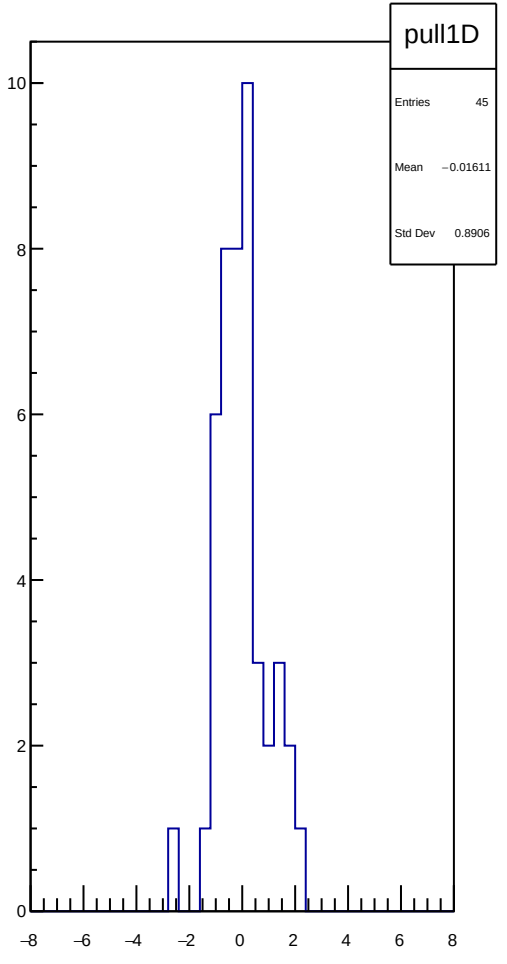
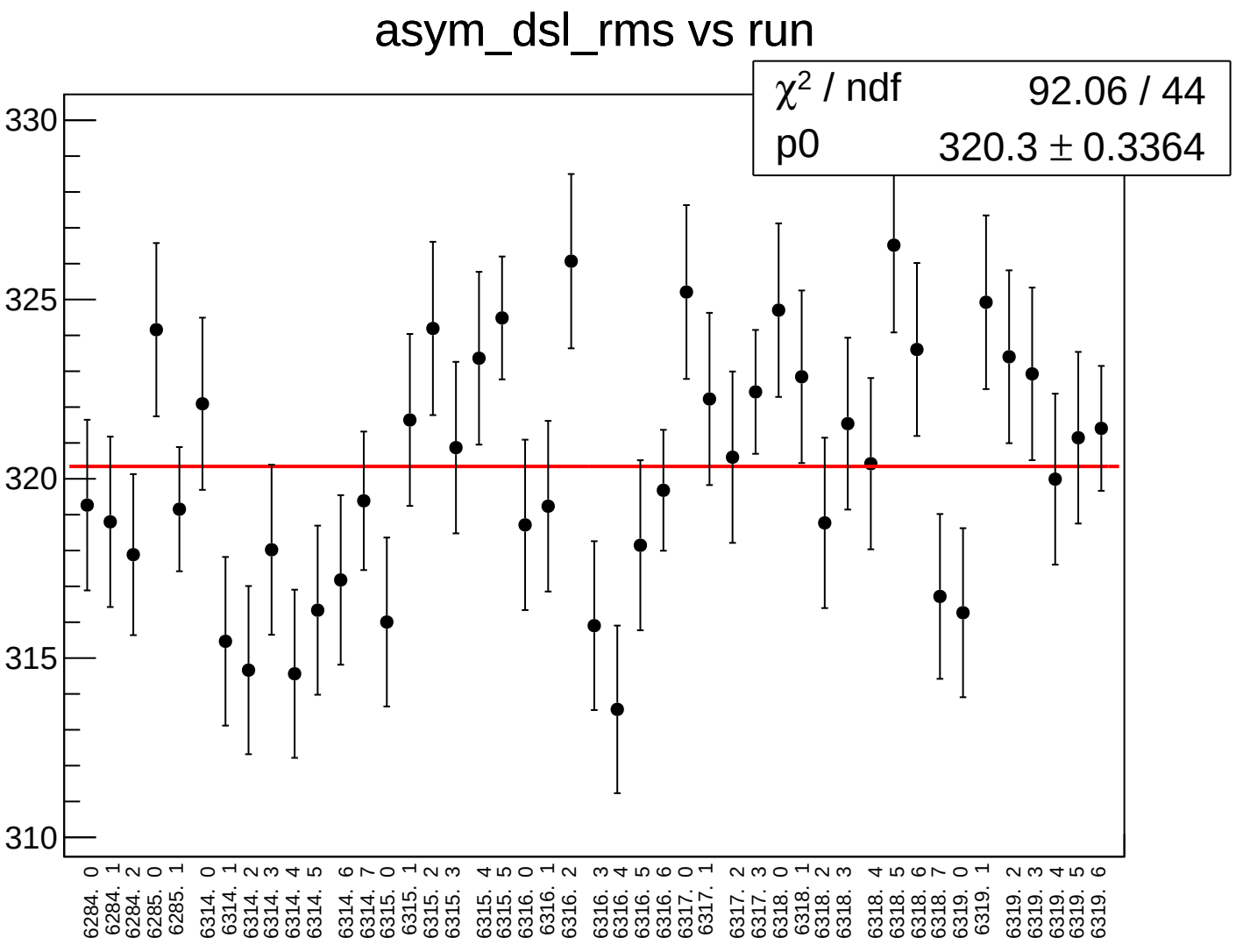
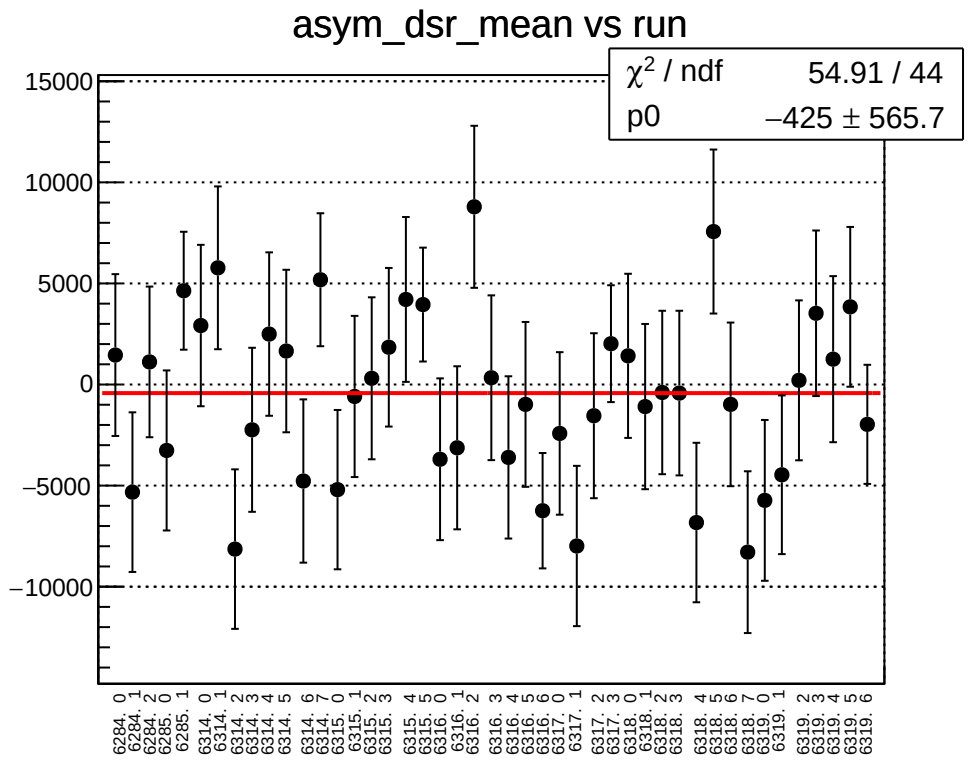
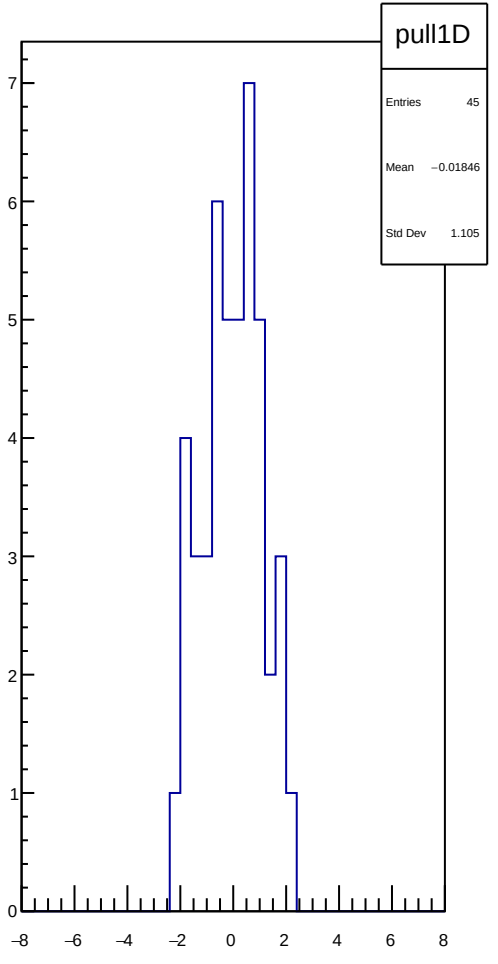
6319. 4
6319. 5
6319. 6

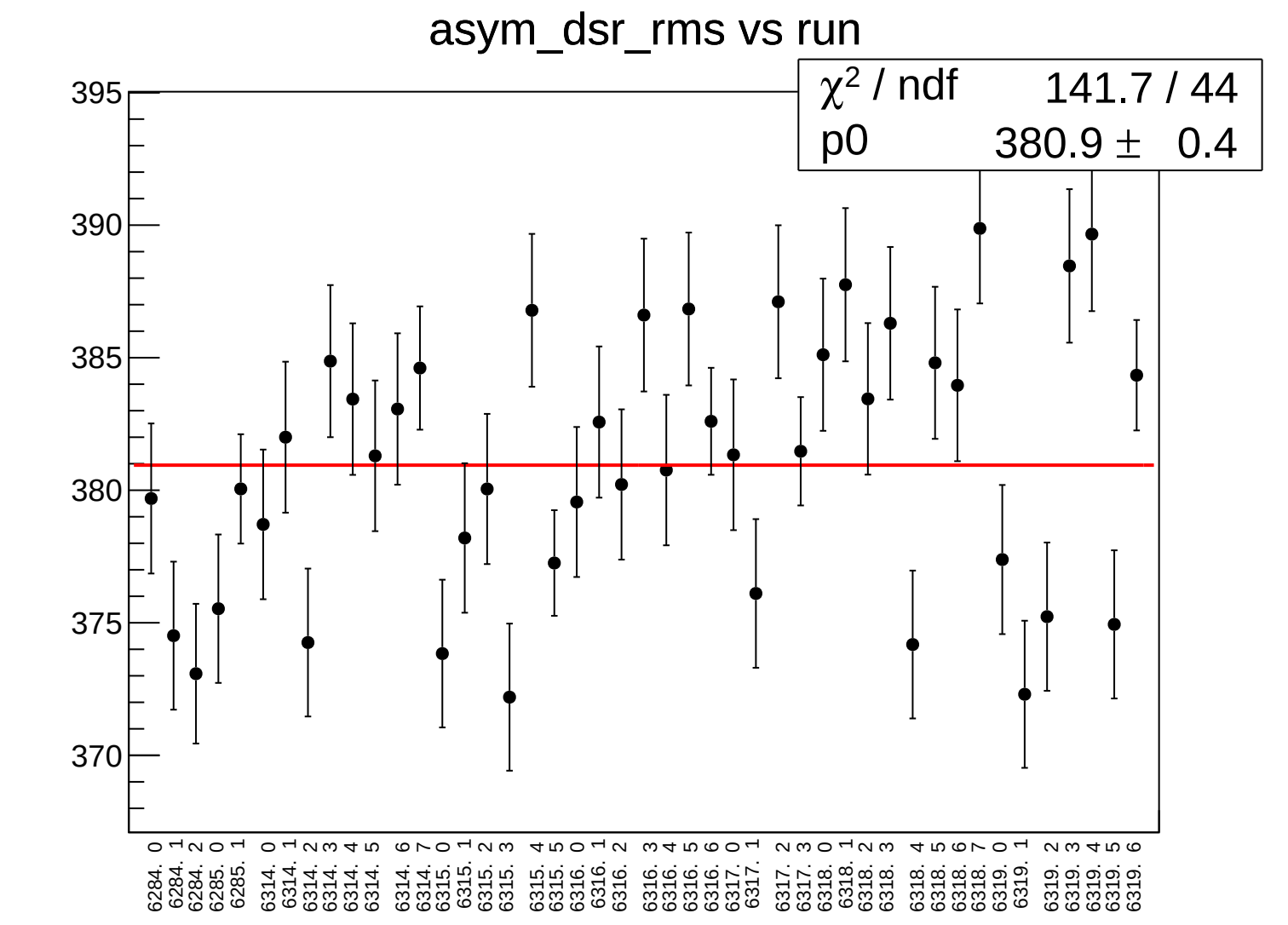

asym_dsl_mean vs run
χ² / ndf 35.71 / 44
p0 459.9 ± 475.7
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 109.7
Std Dev 0
2
1
0
−1
−2

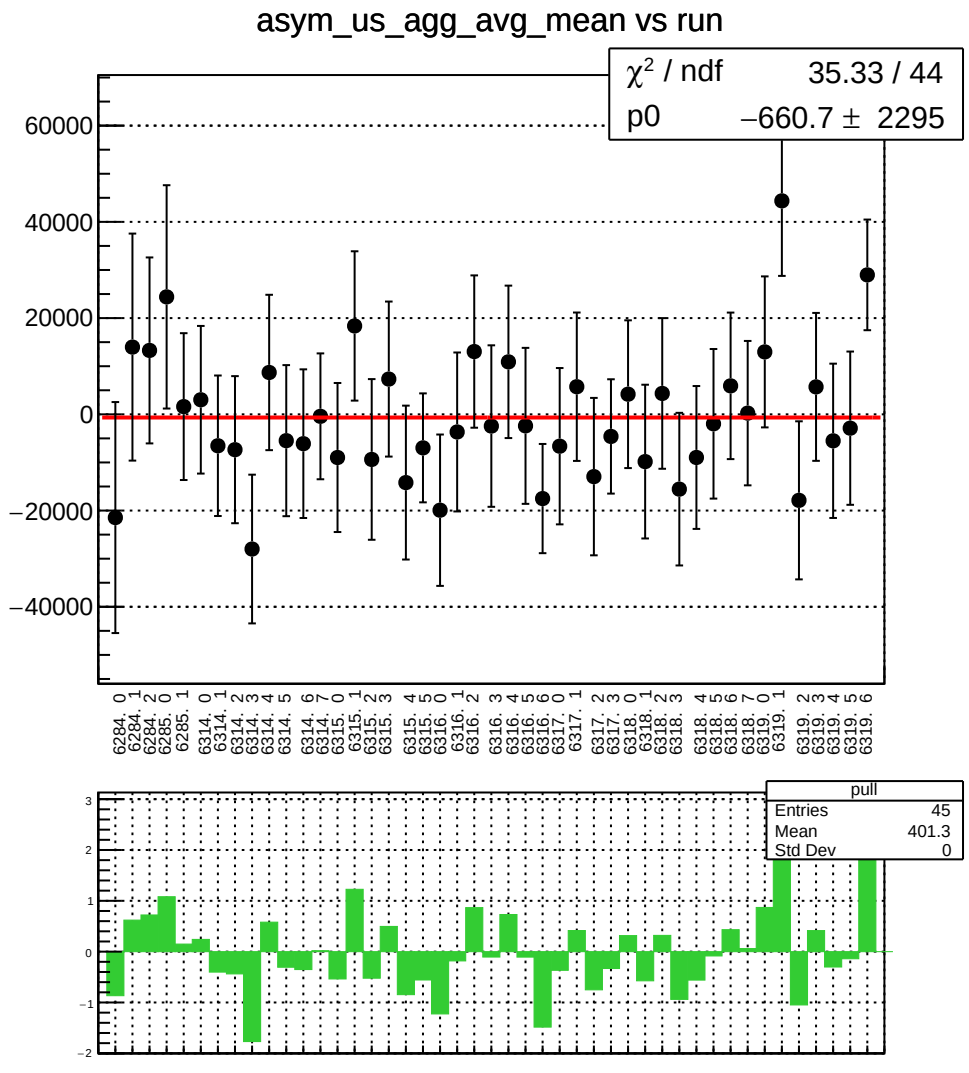

pull1D
Entries 45
Mean −0.01611
Std Dev 0.8906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

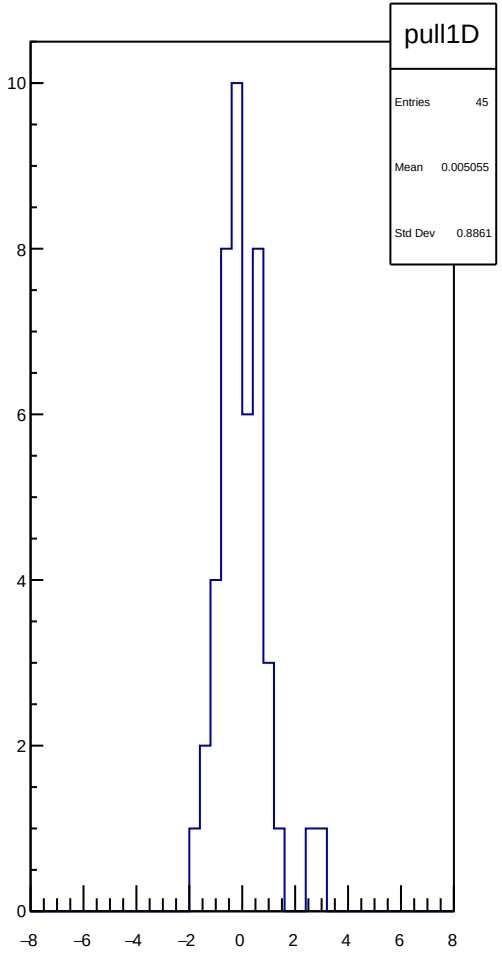

asym_dsl_rms vs run
χ² / ndf 92.06 / 44
p0 320.3 ± 0.3364
330
325
320
315
310
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

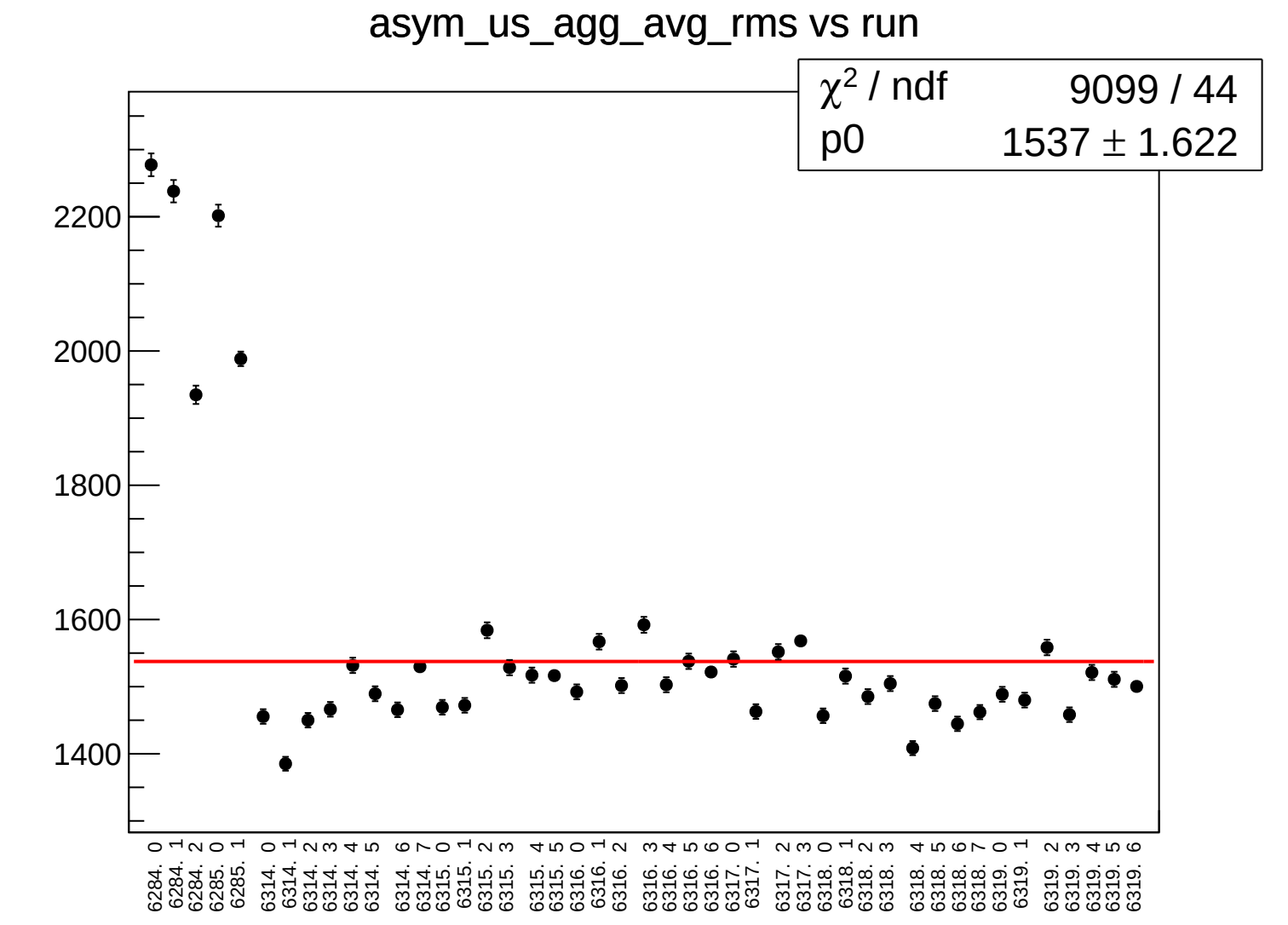

asym_dsr_mean vs run
χ² / ndf 54.91 / 44
p0 −425 ± 565.7
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 111.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

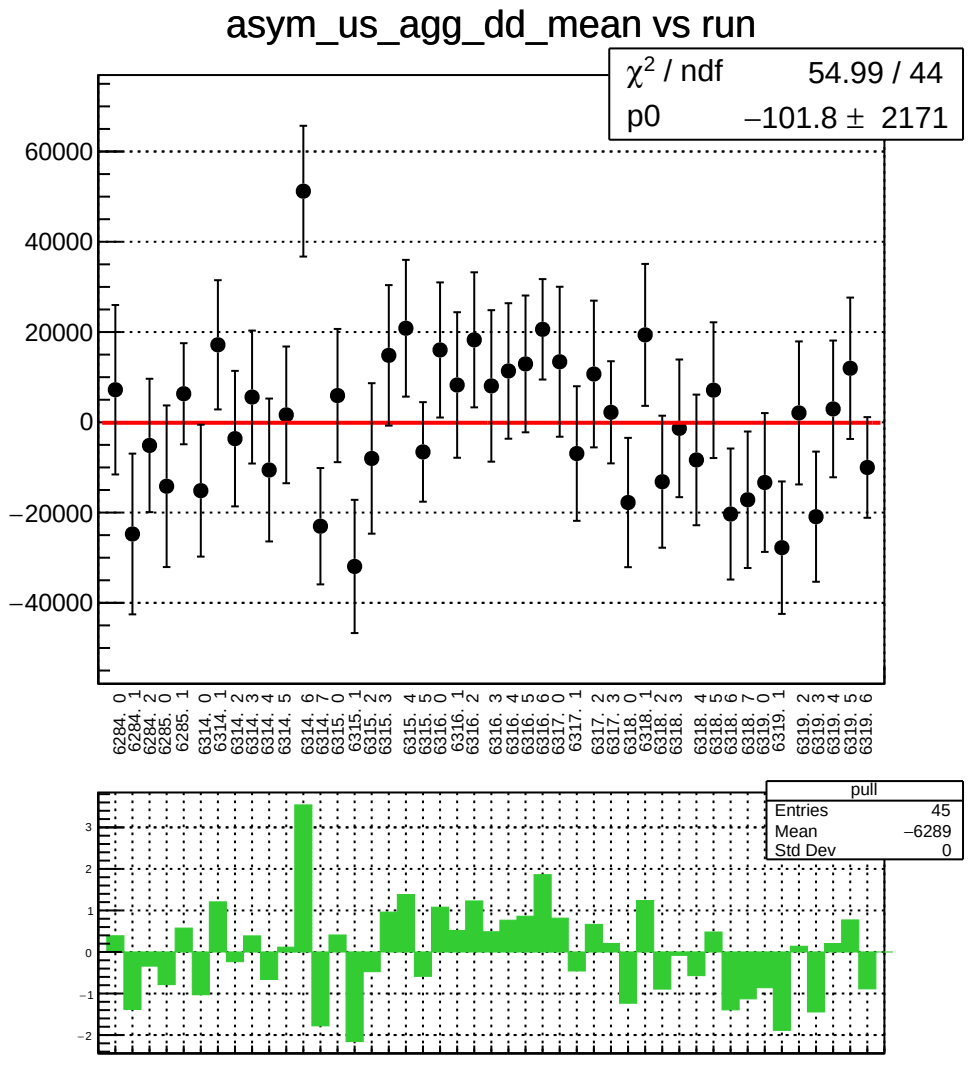

pull1D
Entries 45
Mean −0.01846
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ² / ndf 141.7 / 44
p0 380.9 ± 0.4
395
390
385
380
375
370
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_agg_avg_mean vs run
χ² / ndf 35.33 / 44
p0 −660.7 ± 2295
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 401.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.005055
Std Dev 0.8861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_avg_rms vs run
χ^2 / ndf 9099 / 44
p0 1537 ± 1.622
2200
2000
1800
1600
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_agg_dd_mean vs run
χ² / ndf 54.99 / 44
p0 −101.8 ± 2171
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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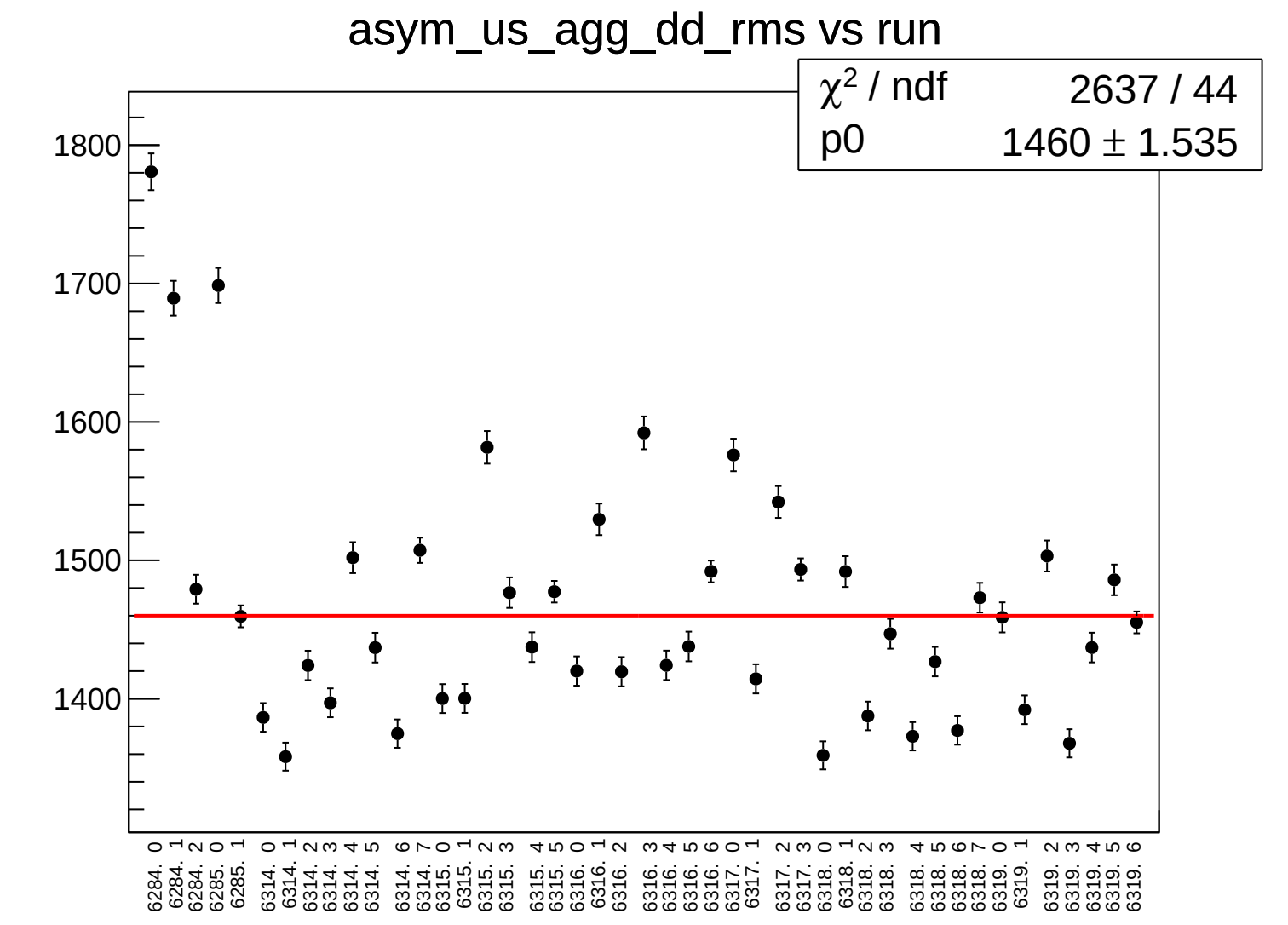
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6289
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0003024
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 2637 / 44
p0 1460 ± 1.535
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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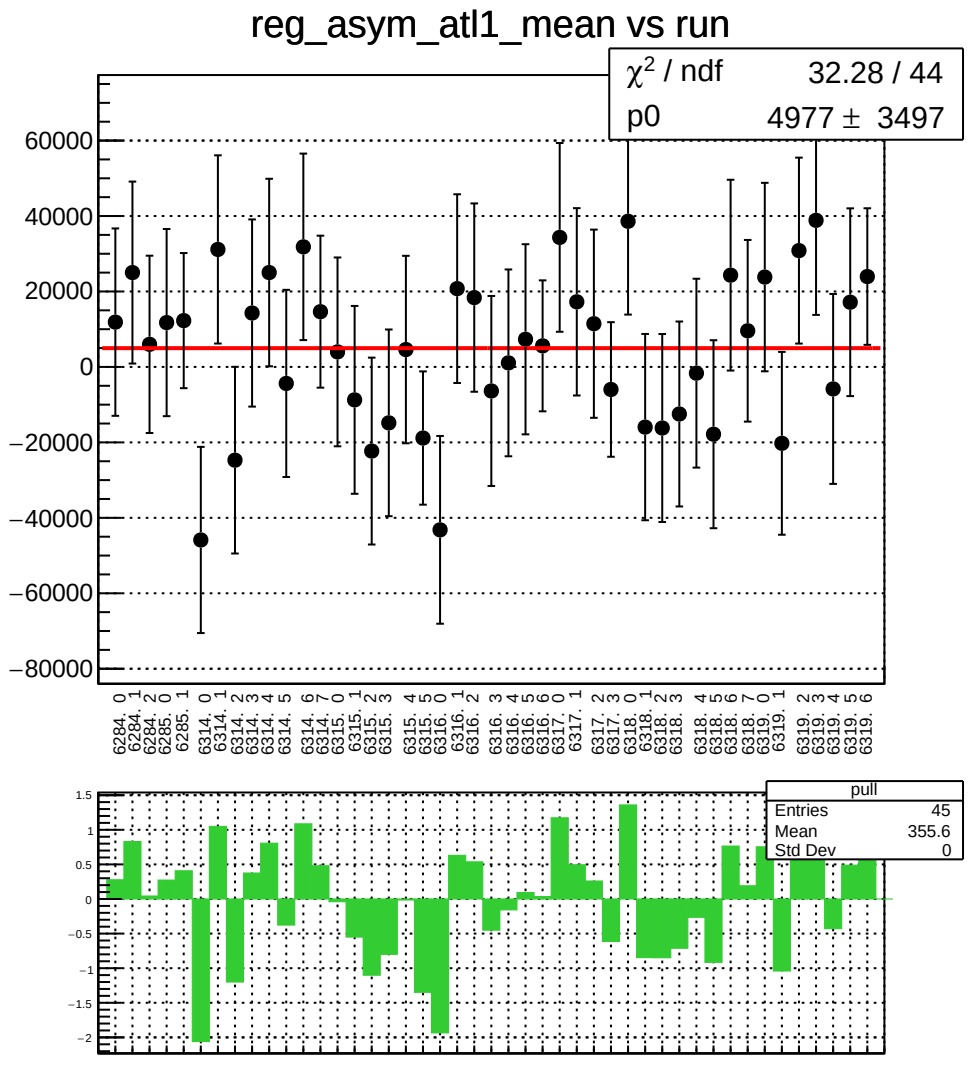
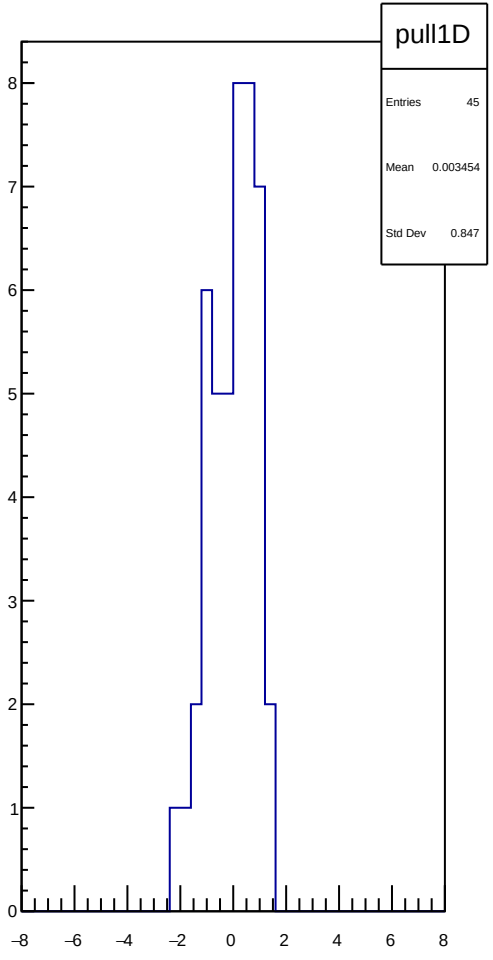
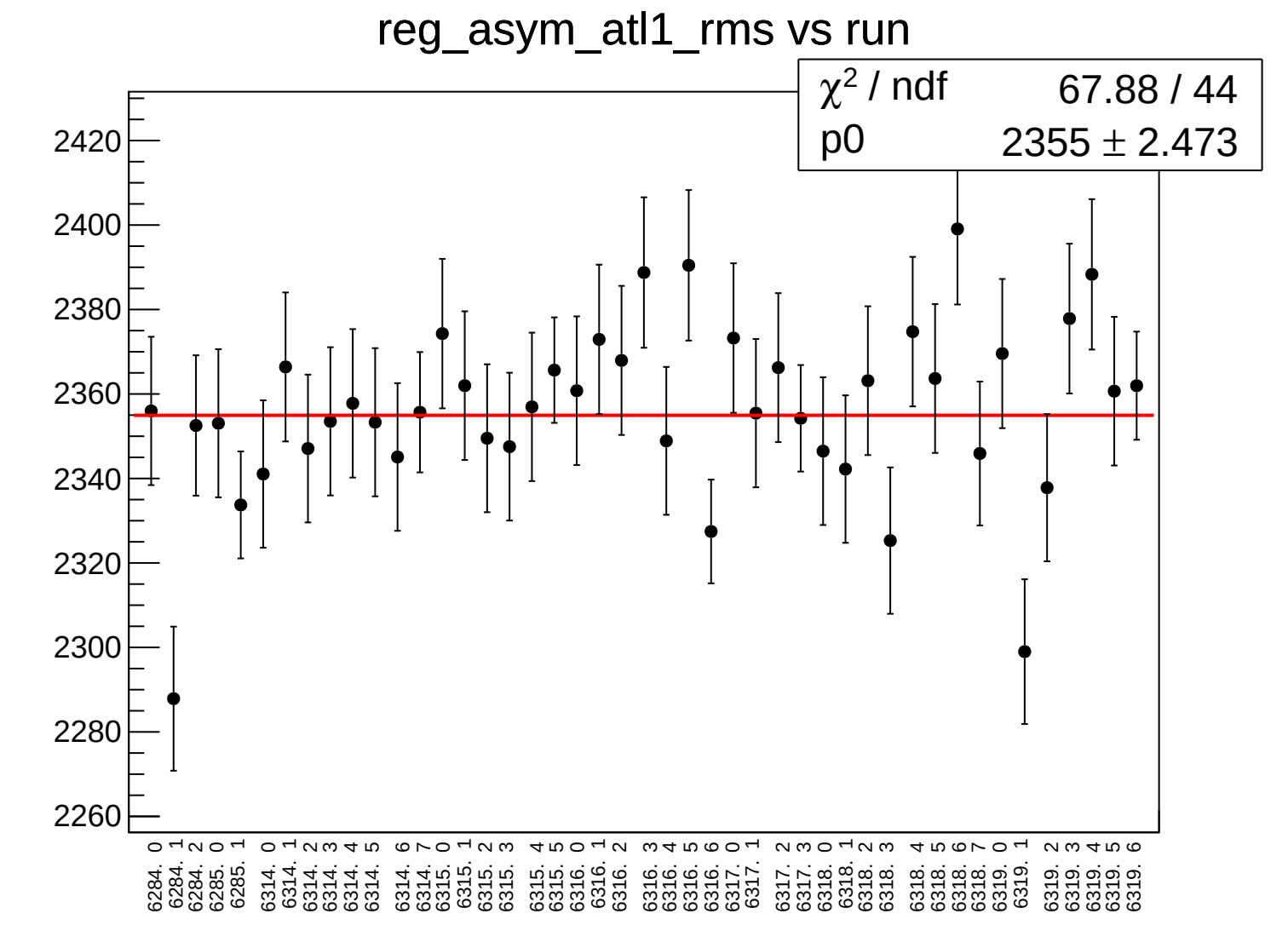
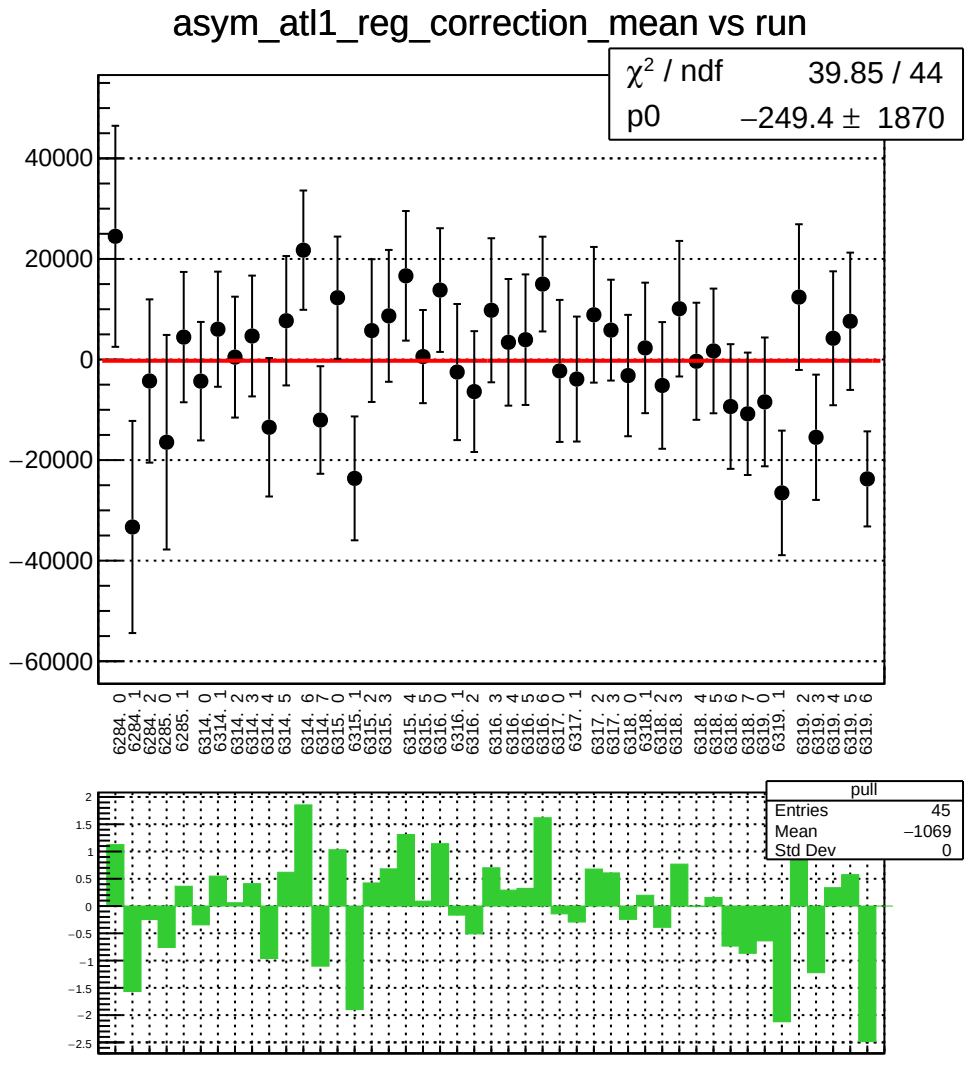
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atl1_mean vs run
χ² / ndf 32.28 / 44
p0 4977 ± 3497
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 355.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003454
Std Dev 0.847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_rms vs run
χ² / ndf 67.88 / 44
p0 2355 ± 2.473
2420
2400
2380
2360
2340
2320
2300
2280
2260
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1_reg_correction_mean vs run
χ² / ndf 39.85 / 44
p0 −249.4 ± 1870
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
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6316. 1
6316. 2
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6316. 6
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6317. 2
6317. 3
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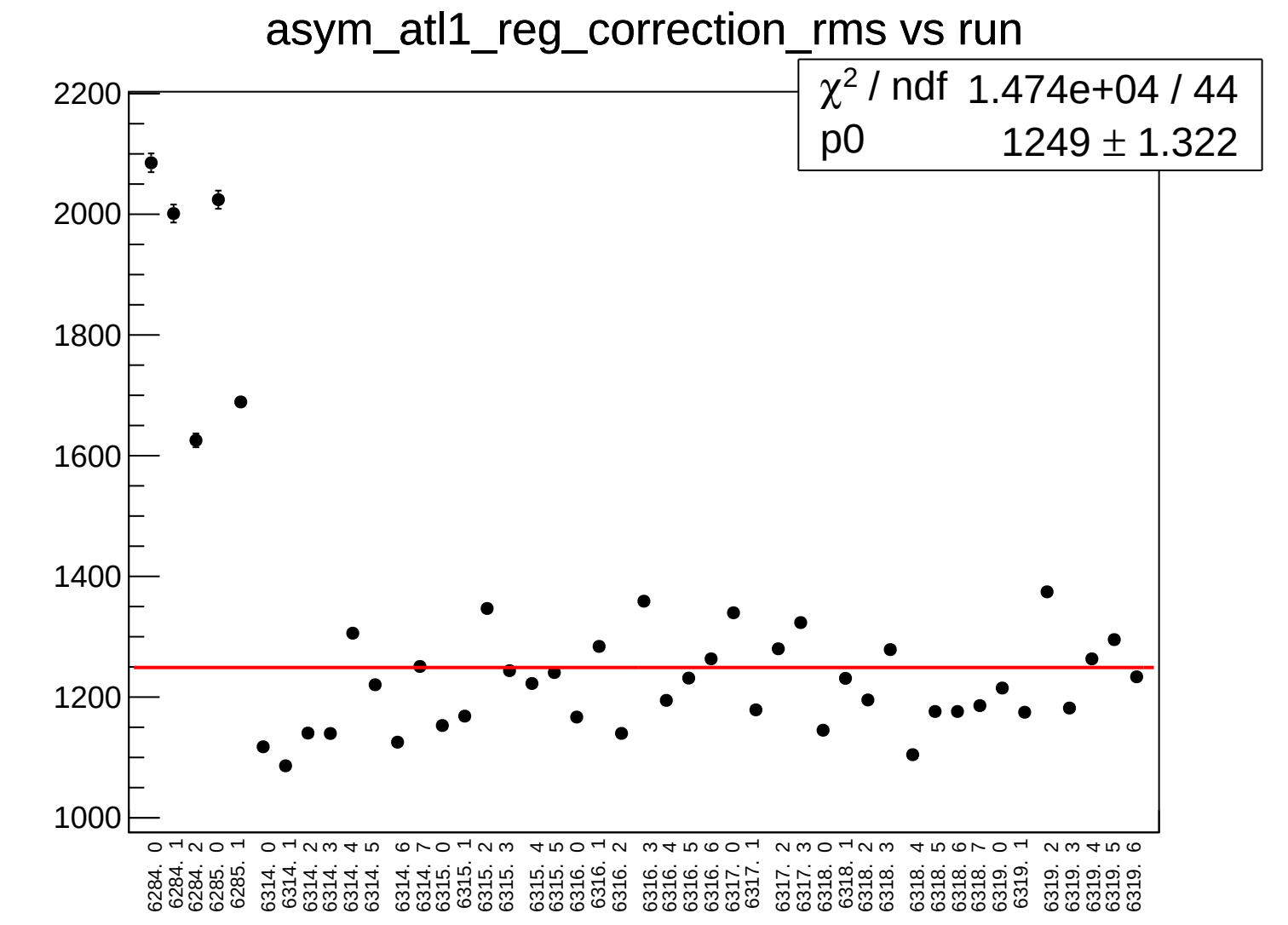
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1069
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.001996
Std Dev 0.941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_reg_correction_rms vs run
χ² / ndf 1.474e+04 / 44
p0 1249 ± 1.322
2200
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 4
6314. 5
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6315. 2
6315. 3
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6316. 1
6316. 2
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6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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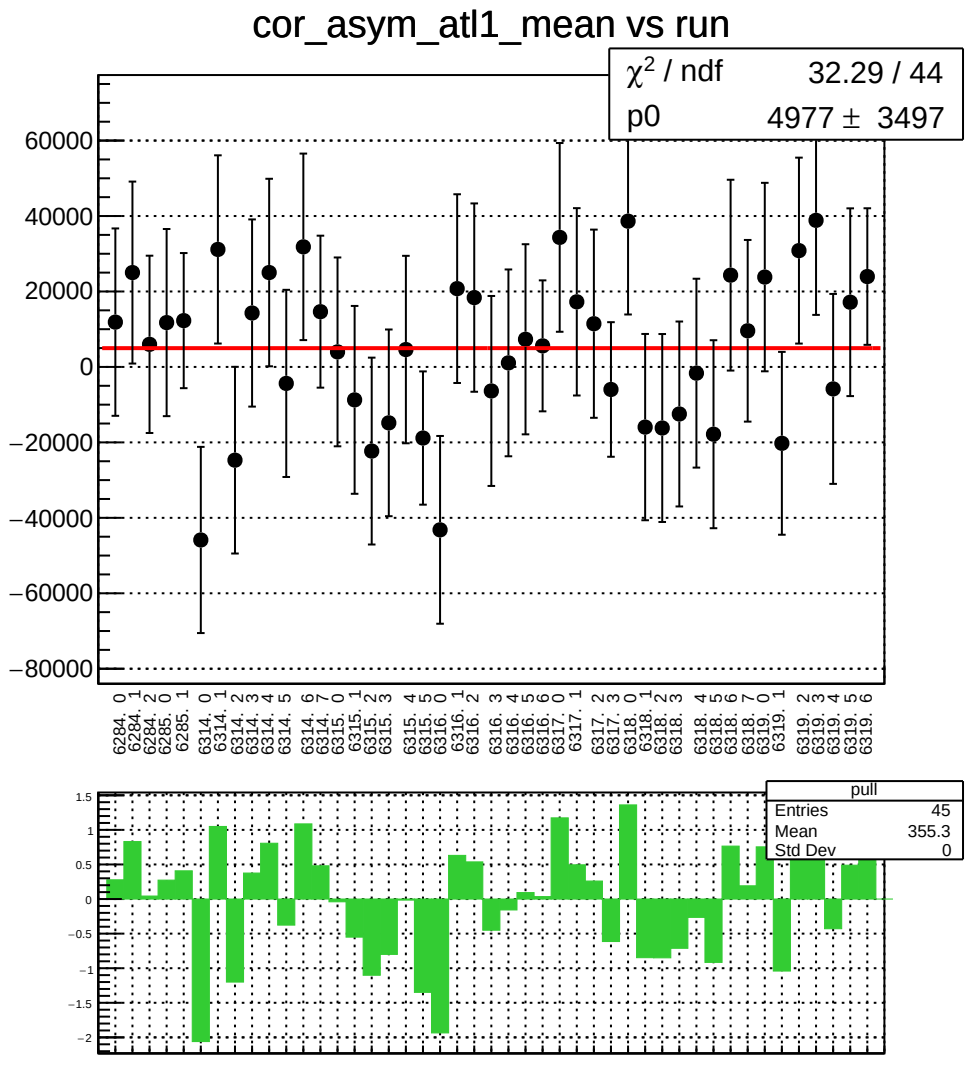
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl1_mean vs run
χ² / ndf 32.29 / 44
p0 4977 ± 3497
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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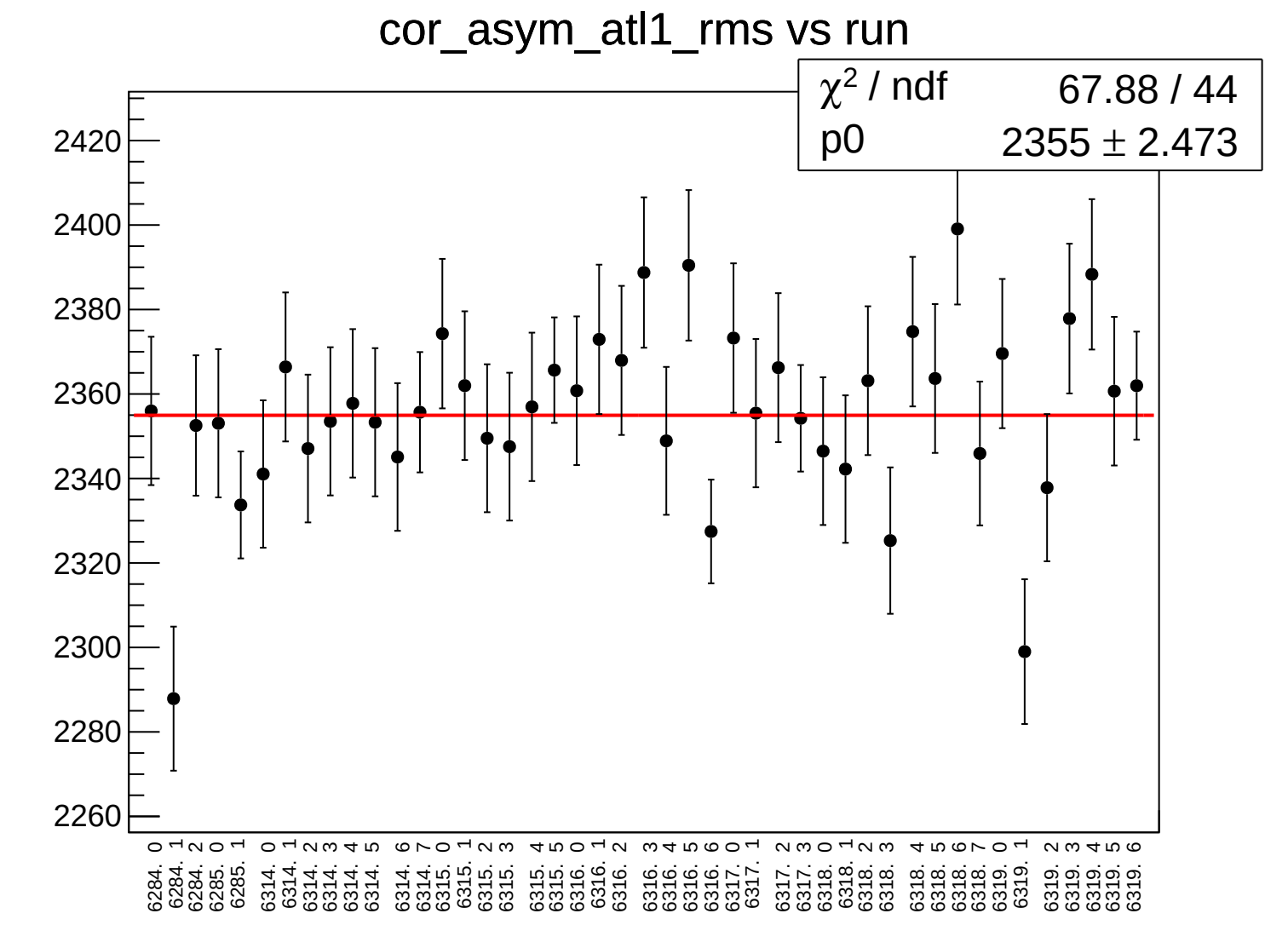
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 355.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003457
Std Dev 0.847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1_rms vs run
χ² / ndf 67.88 / 44
p0 2355 ± 2.473
2420
2400
2380
2360
2340
2320
2300
2280
2260
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
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6318. 1
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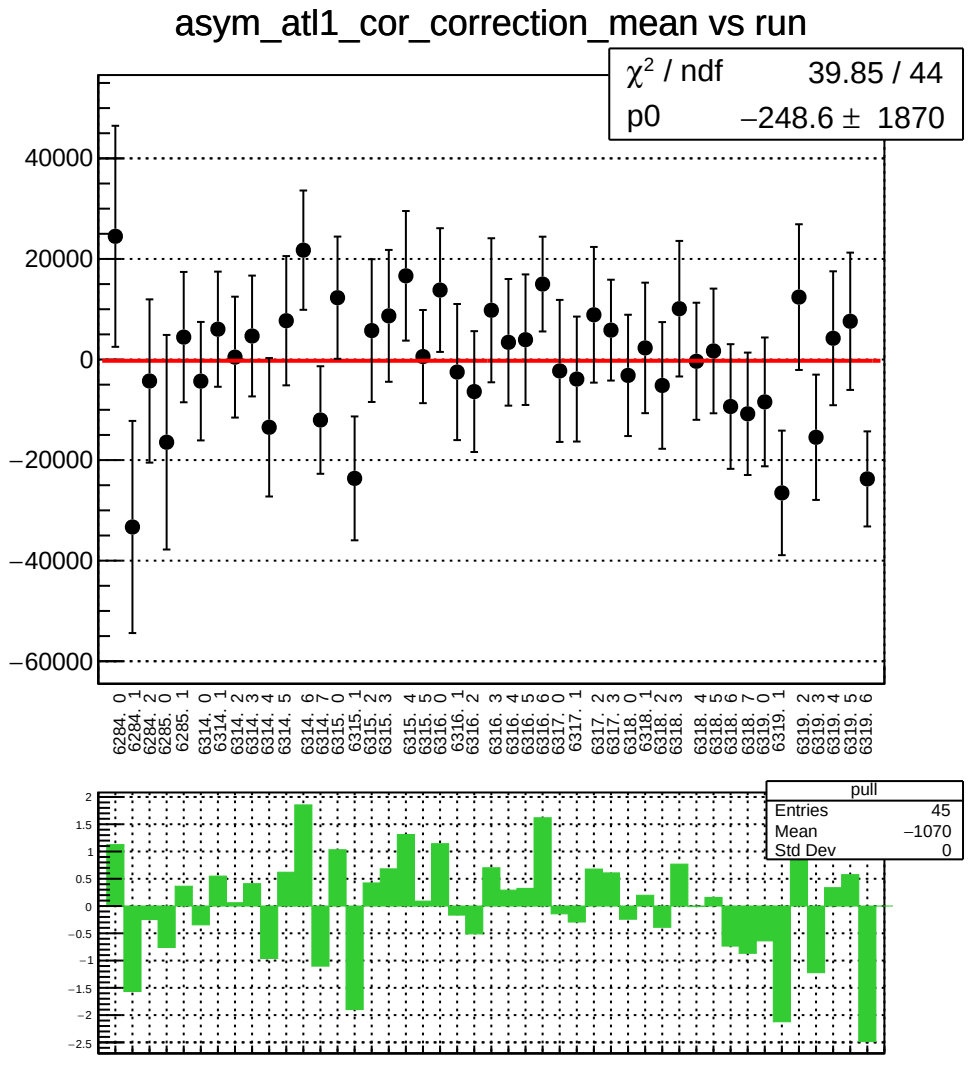
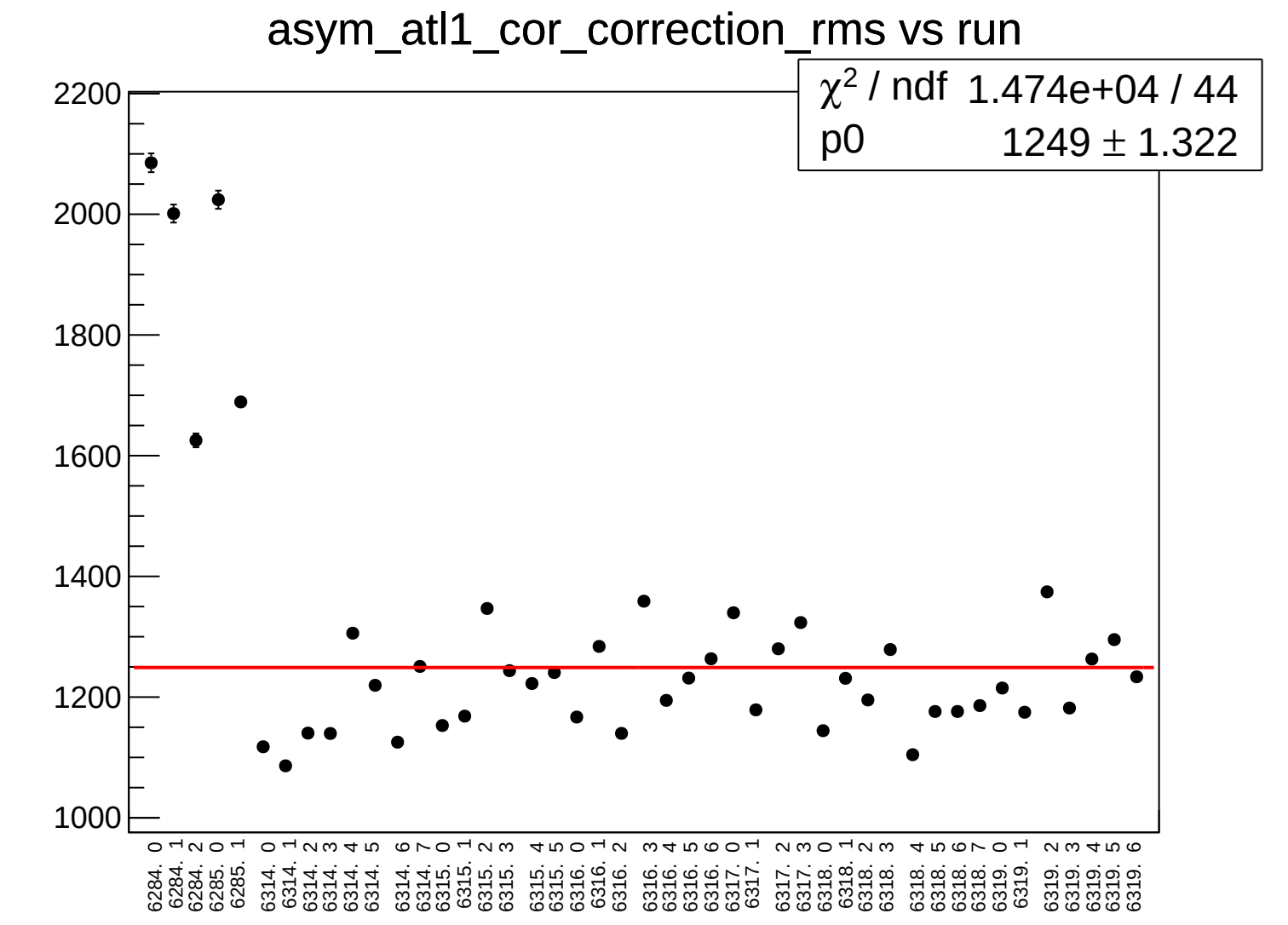
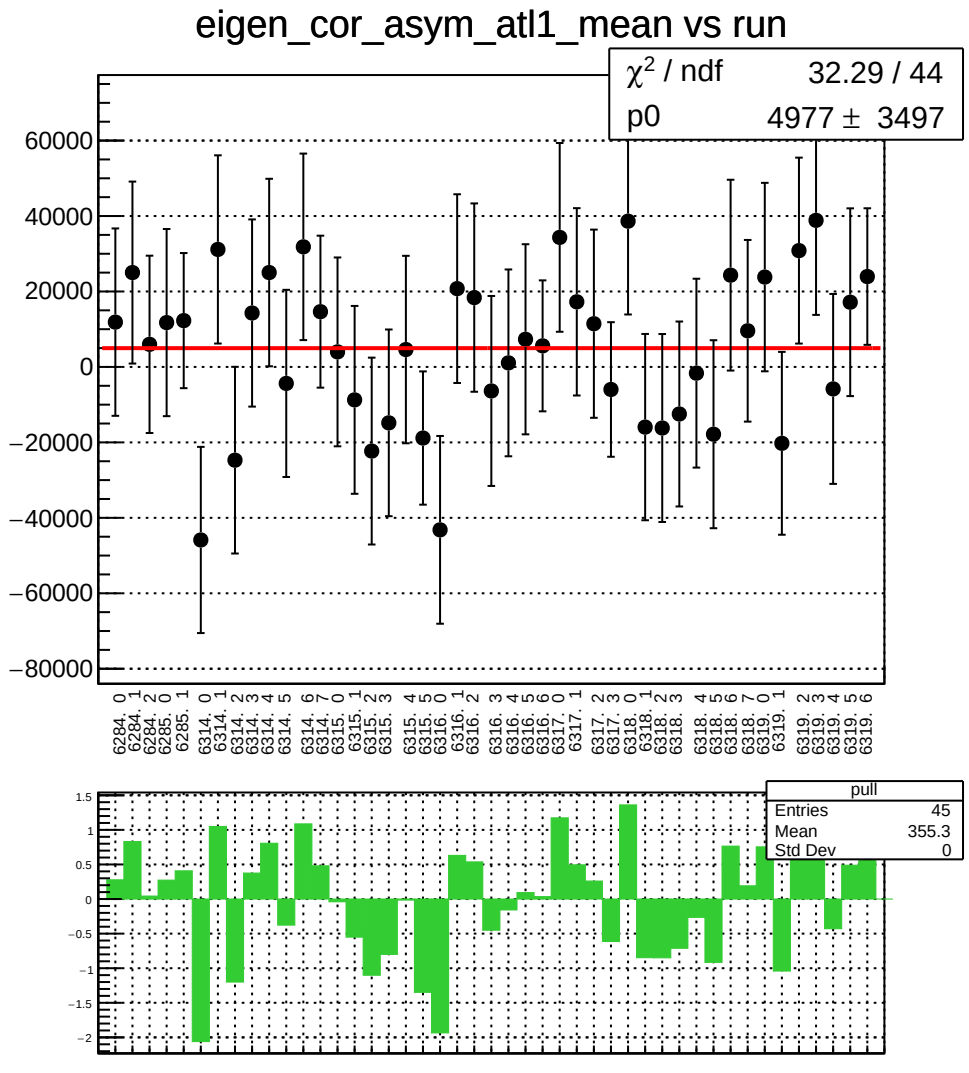
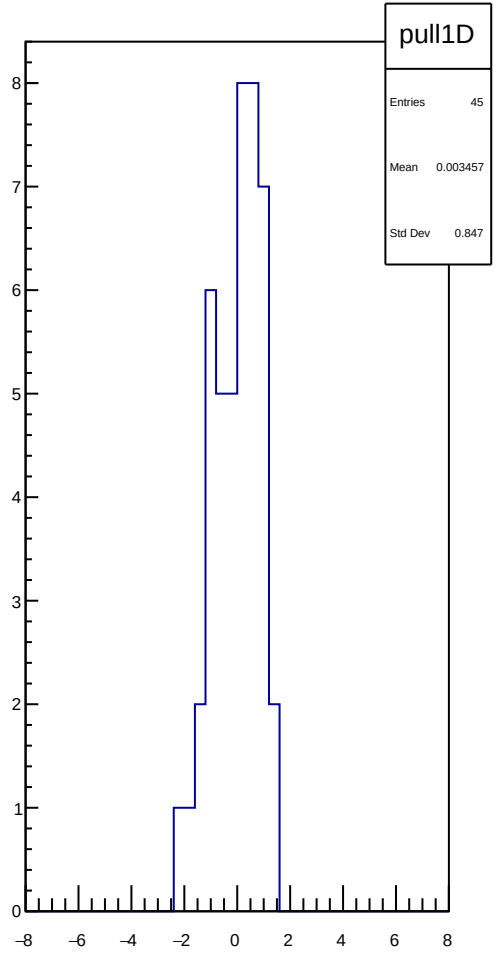
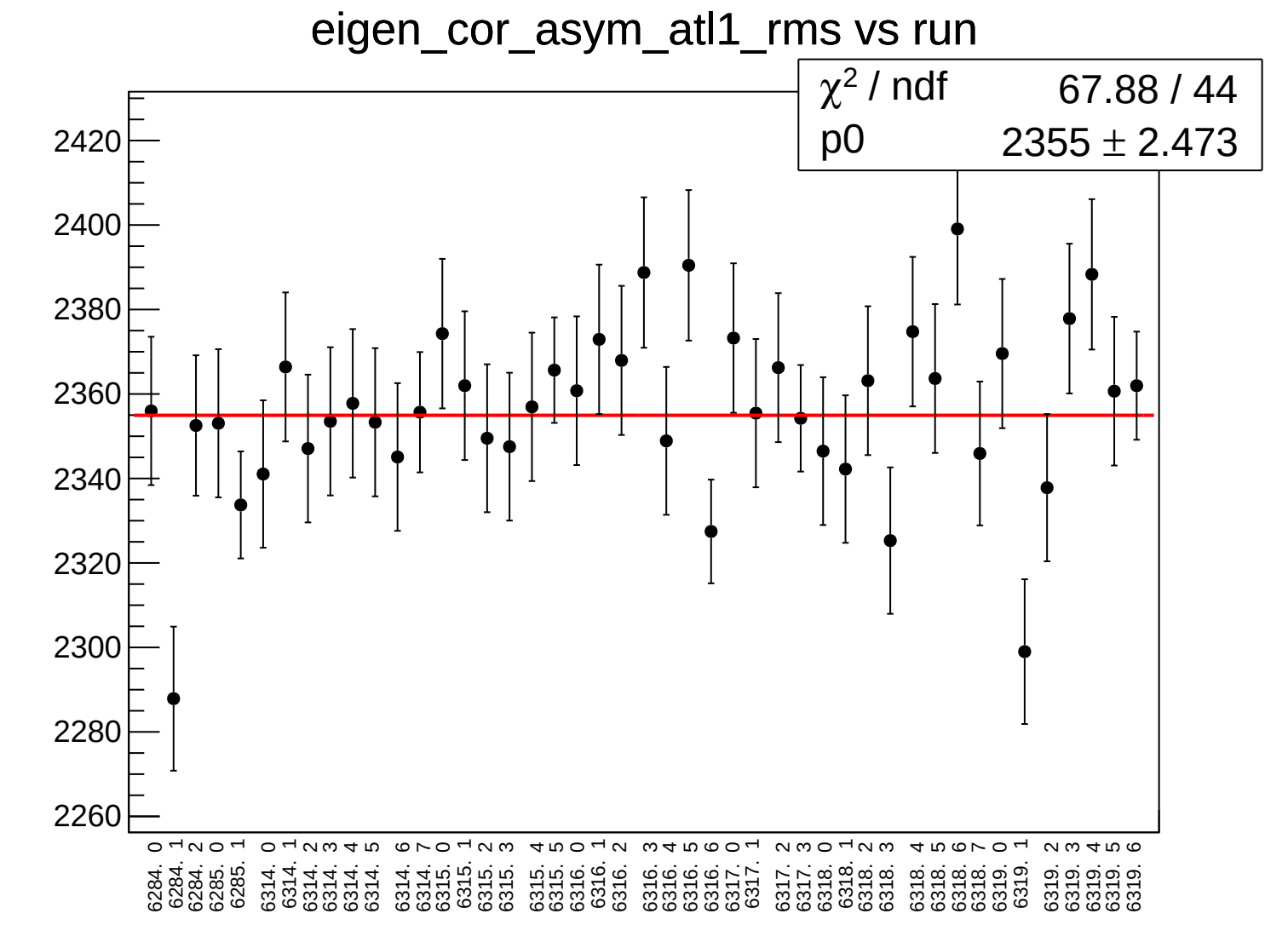
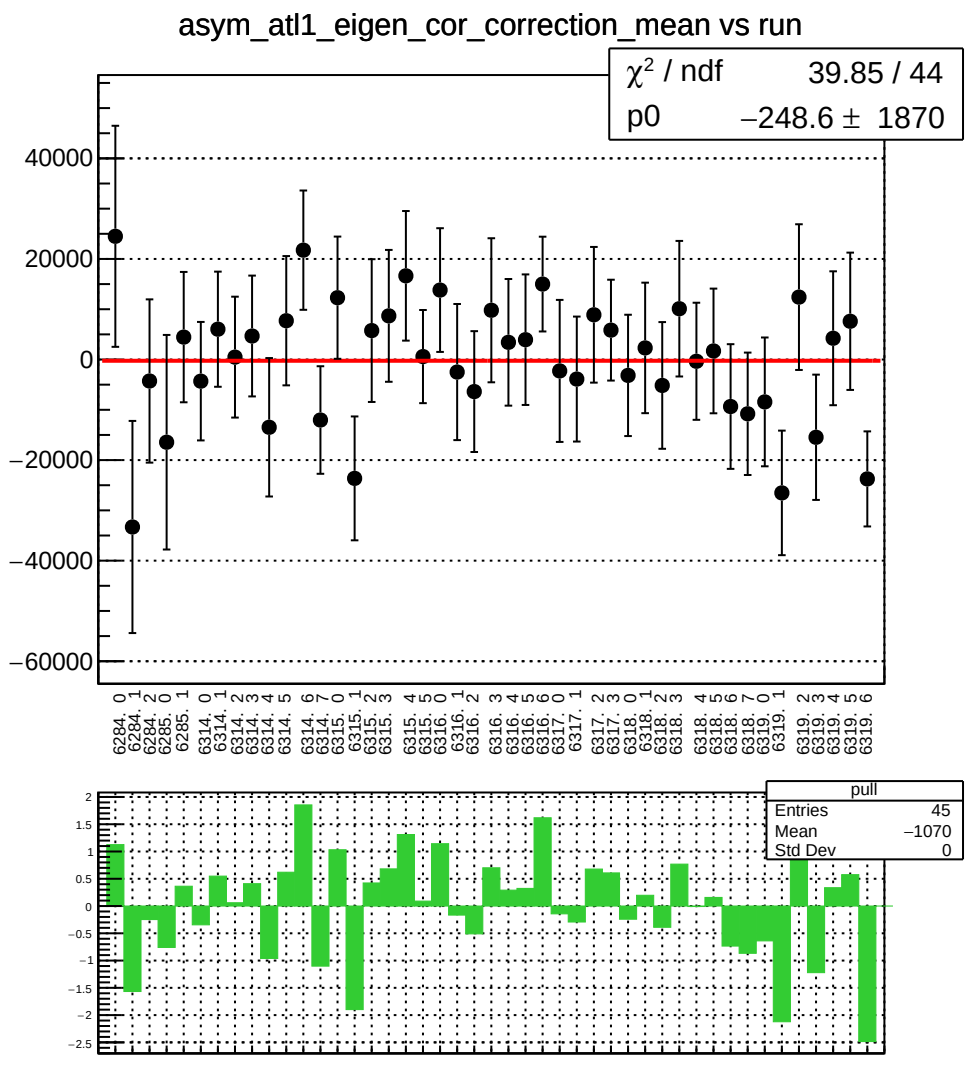

asym_atl1_cor_correction_mean vs run
χ² / ndf 39.85 / 44
p0 −248.6 ± 1870
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1070
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.001994
Std Dev 0.941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

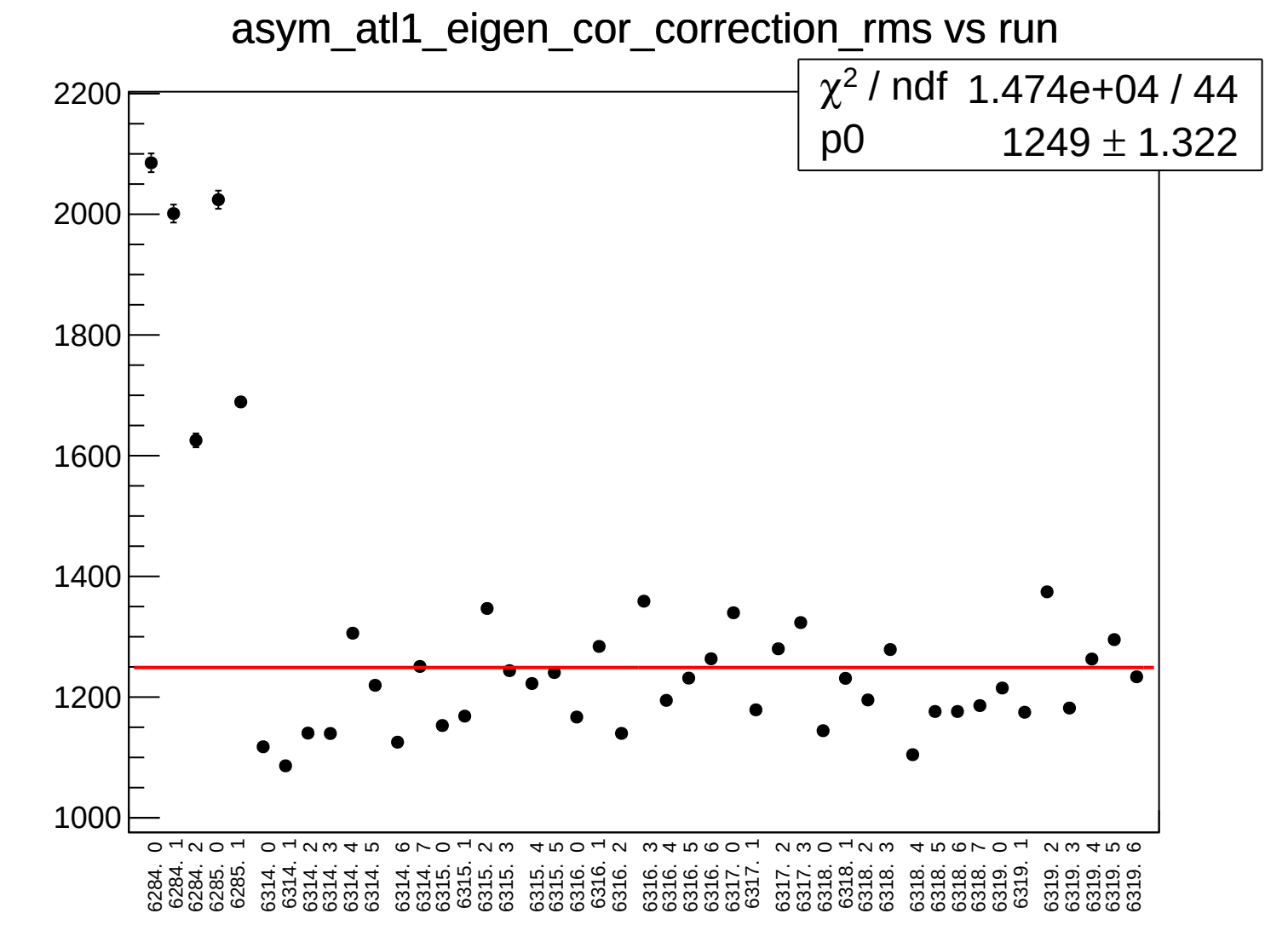

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 44
p0 1249 ± 1.322
2200
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_atl1_mean vs run
χ² / ndf 32.29 / 44
p0 4977 ± 3497
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 355.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003457
Std Dev 0.847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1_rms vs run
χ² / ndf 67.88 / 44
p0 2355 ± 2.473
2420
2400
2380
2360
2340
2320
2300
2280
2260
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 39.85 / 44
p0 −248.6 ± 1870
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1070
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.001994
Std Dev 0.941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 44
p0 1249 ± 1.322
2200
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
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6319. 3
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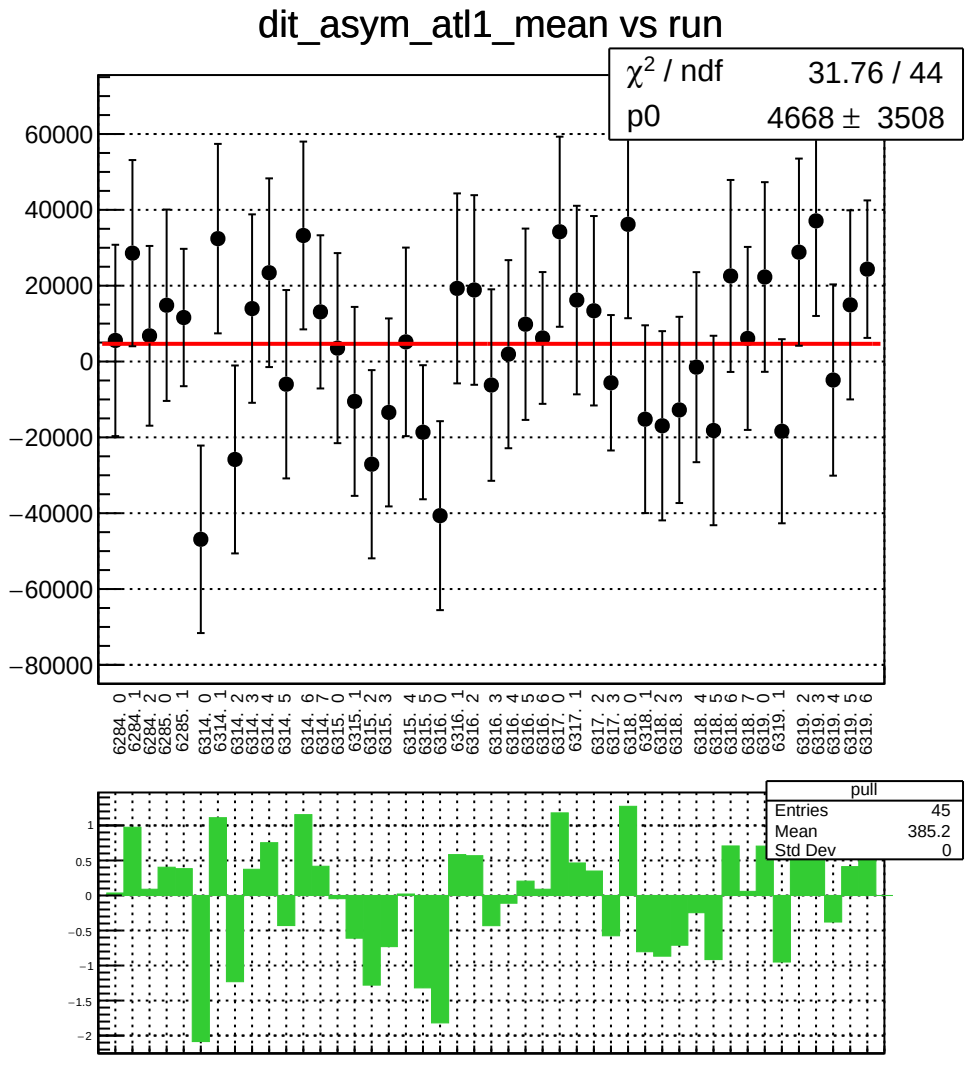
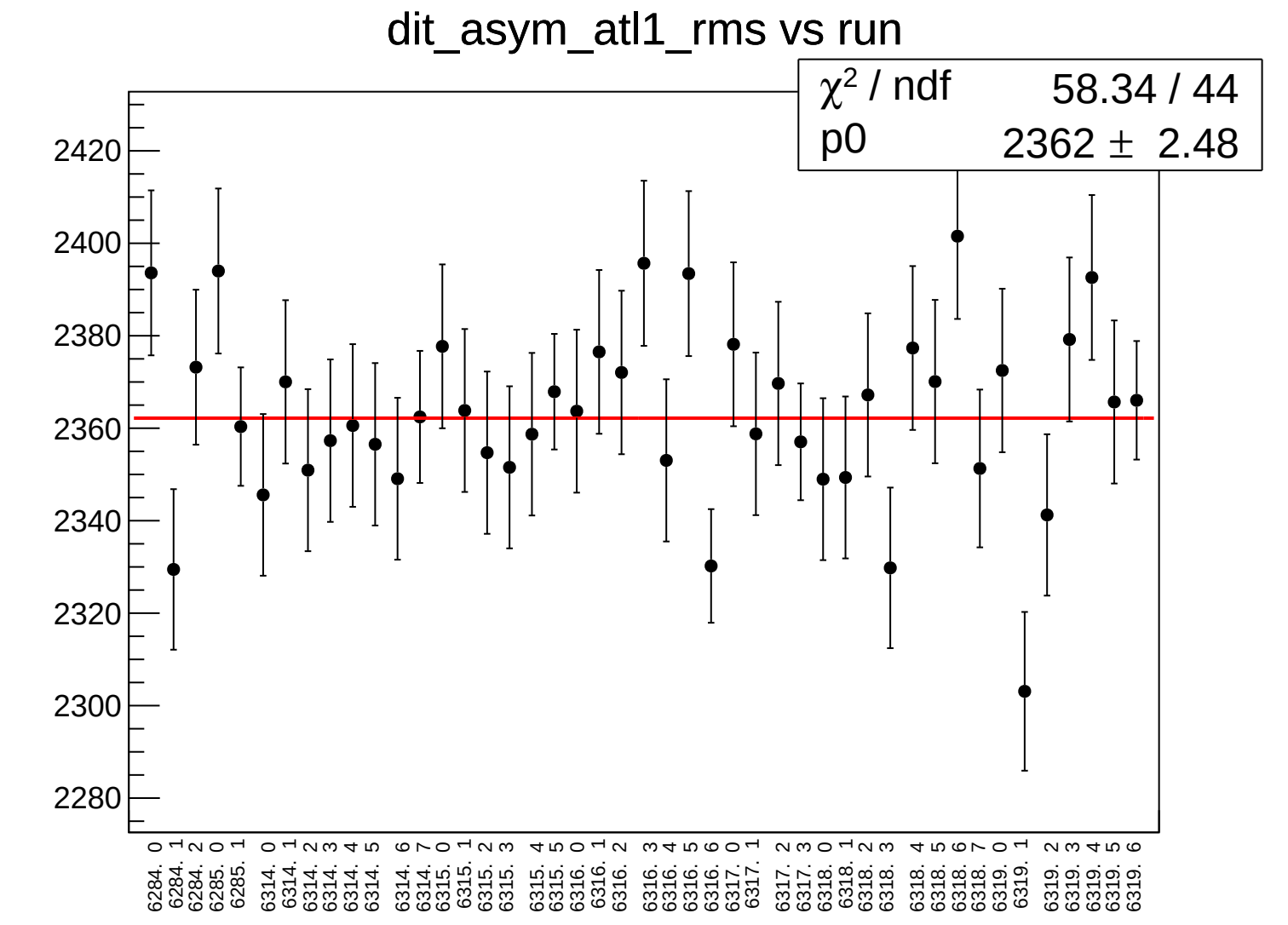
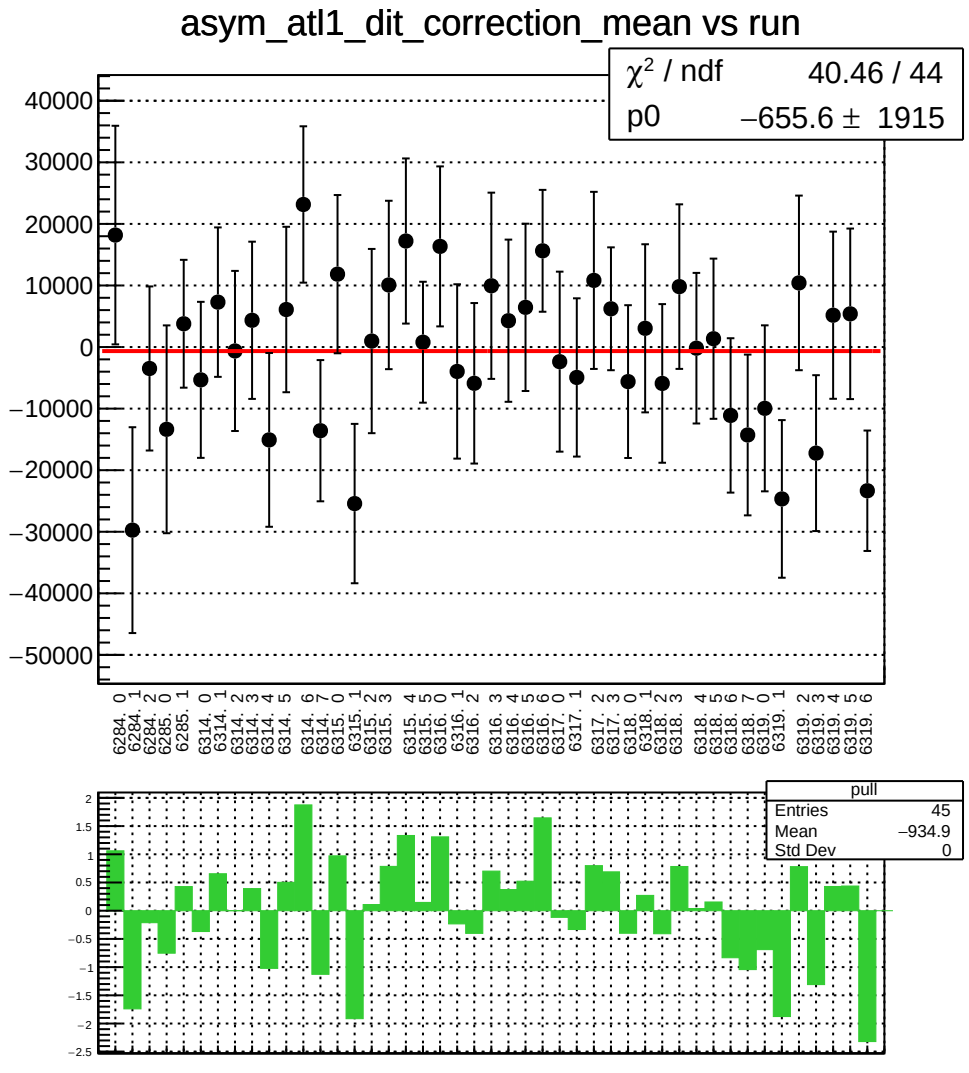
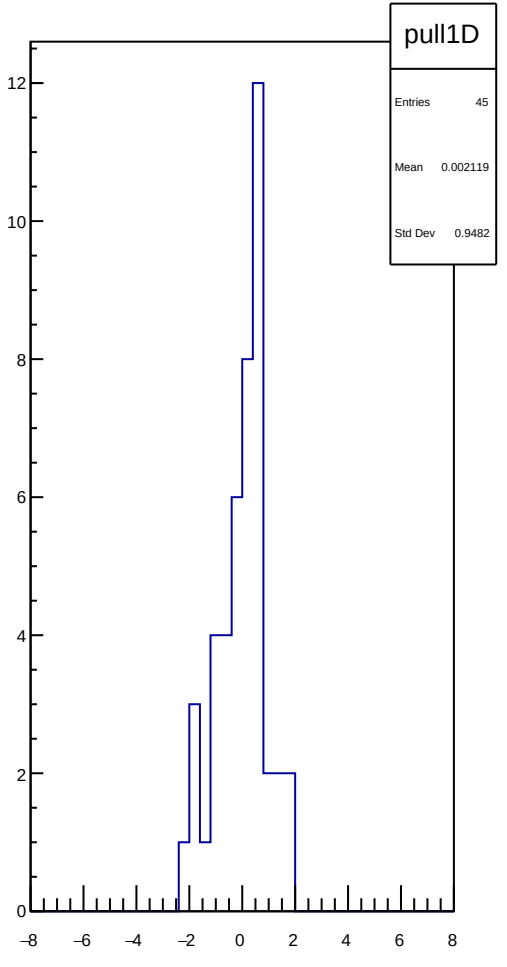
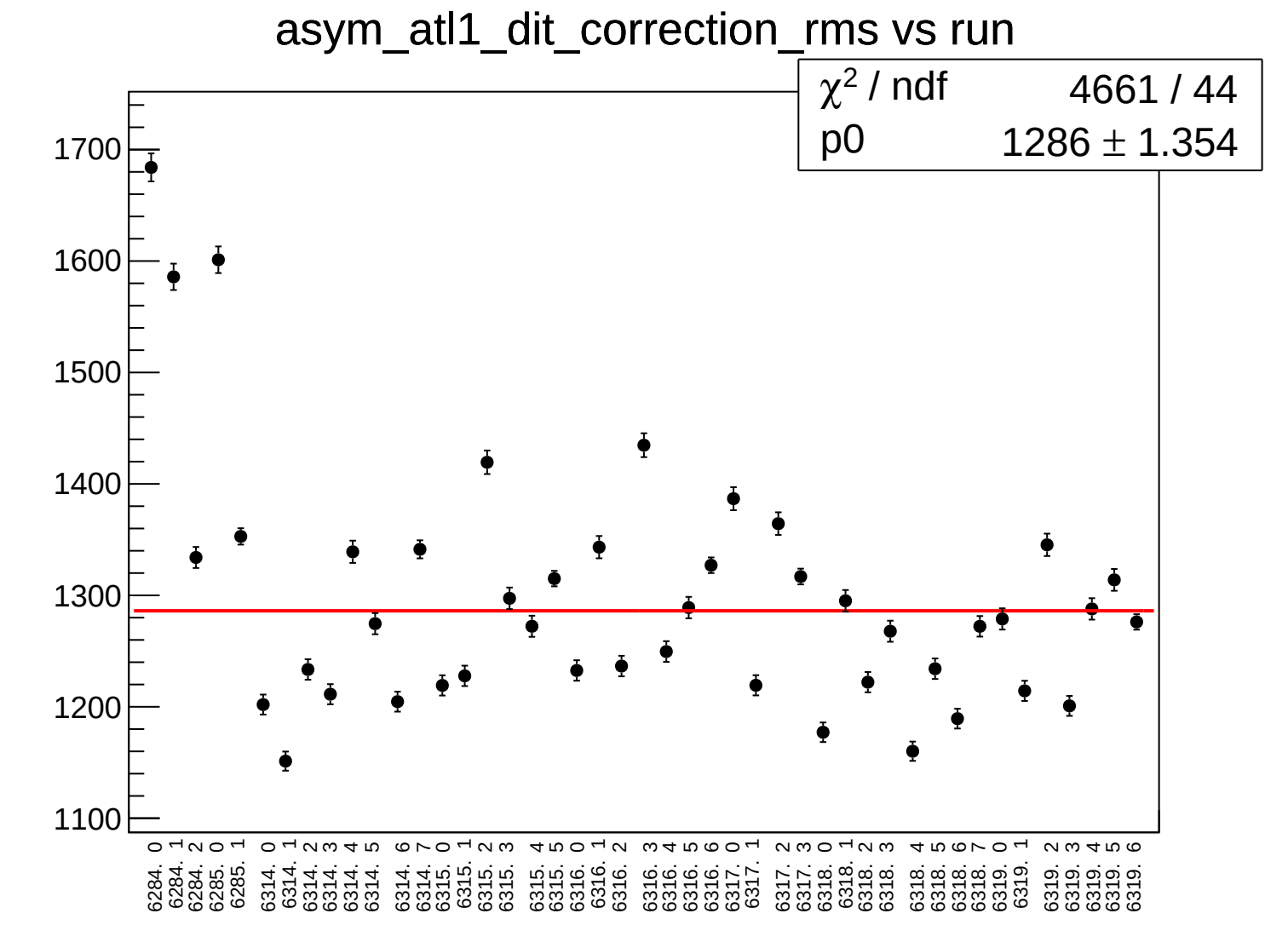
6319. 6


dit_asym_atl1_mean vs run
χ² / ndf 31.76 / 44
p0 4668 ± 3508
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 385.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003048
Std Dev 0.8401
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1_rms vs run
χ² / ndf 58.34 / 44
p0 2362 ± 2.48
2420
2400
2380
2360
2340
2320
2300
2280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1_dit_correction_mean vs run
χ² / ndf 40.46 / 44
p0 −655.6 ± 1915
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −934.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002119
Std Dev 0.9482
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_correction_rms vs run
χ² / ndf 4661 / 44
p0 1286 ± 1.354
1700
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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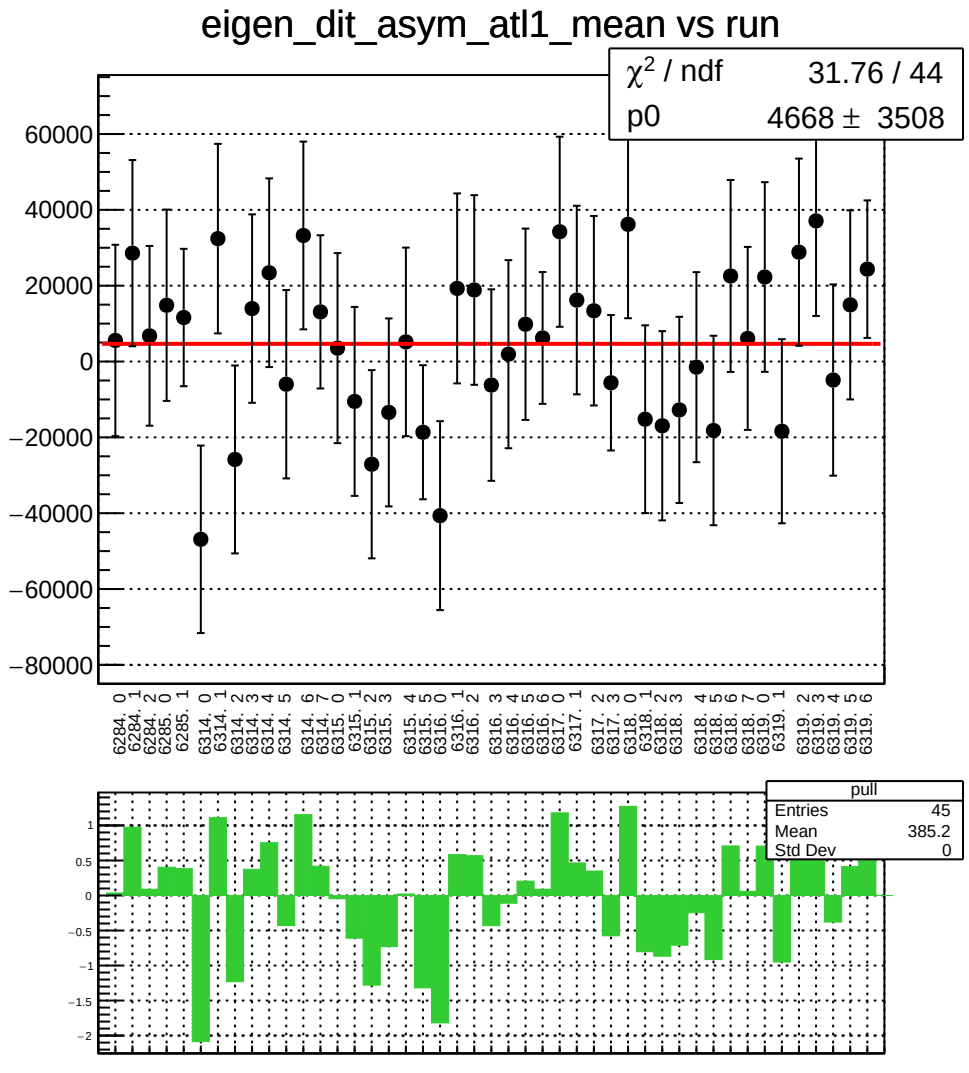
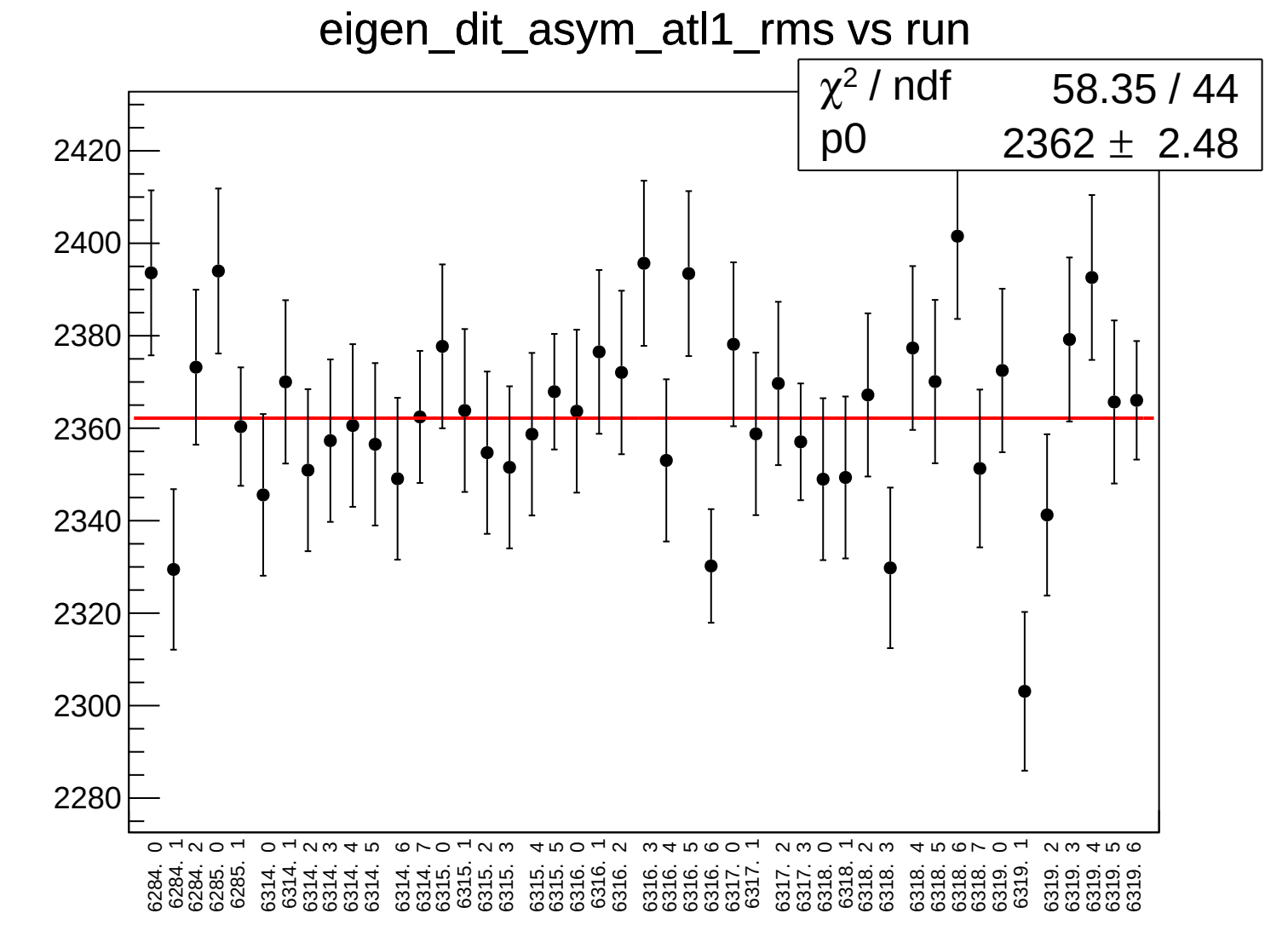
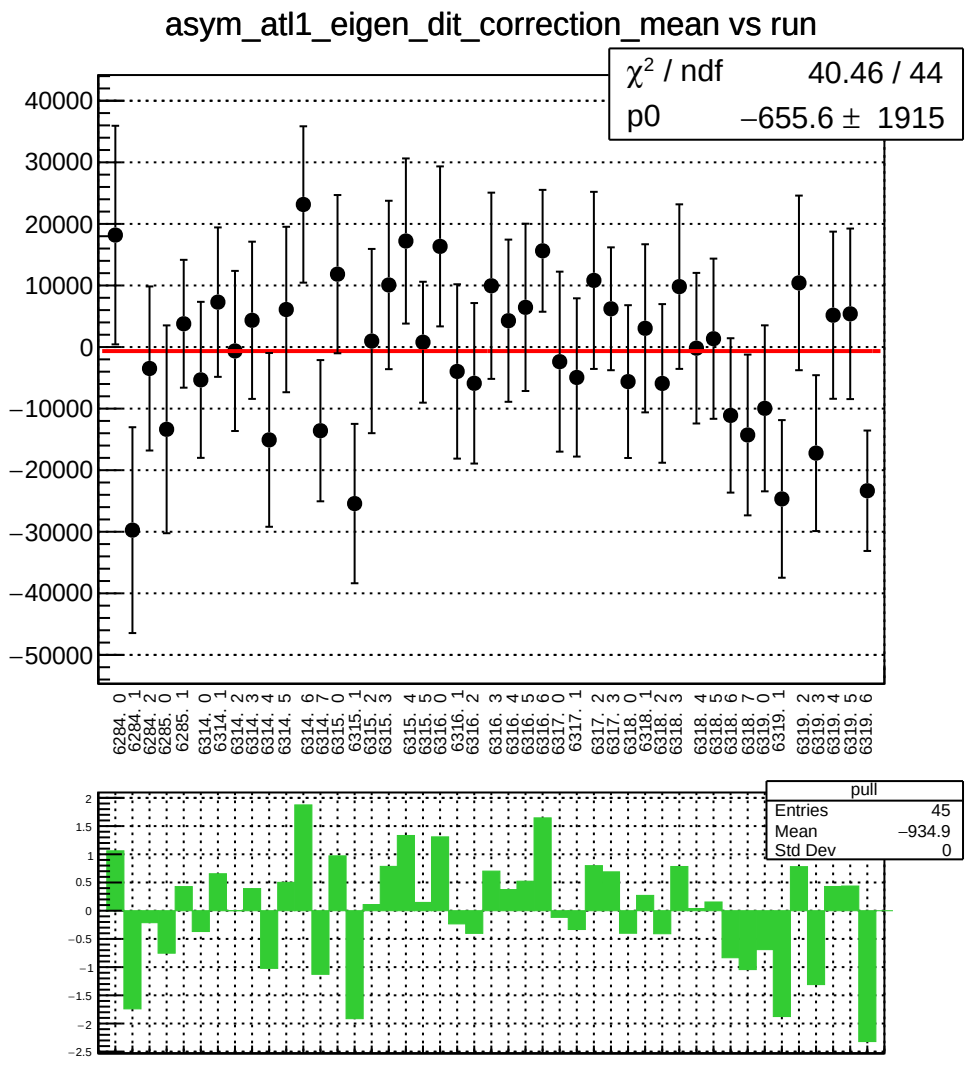
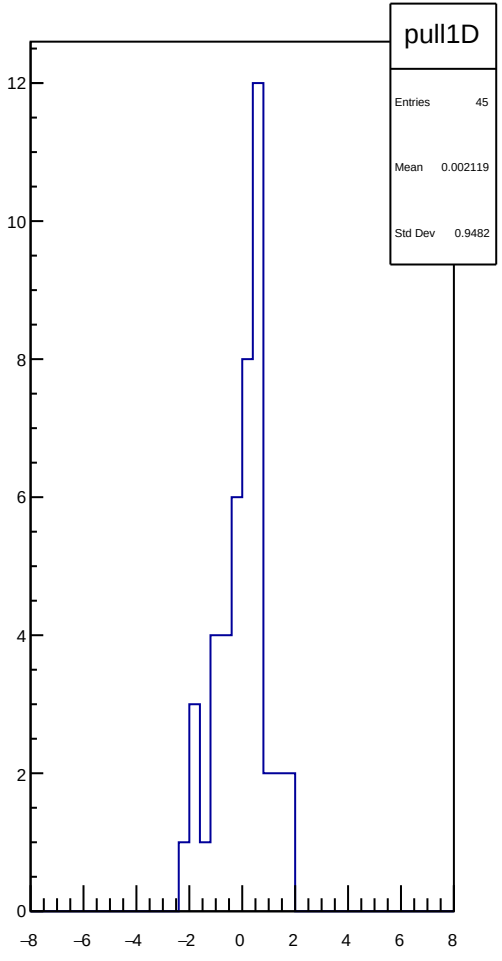
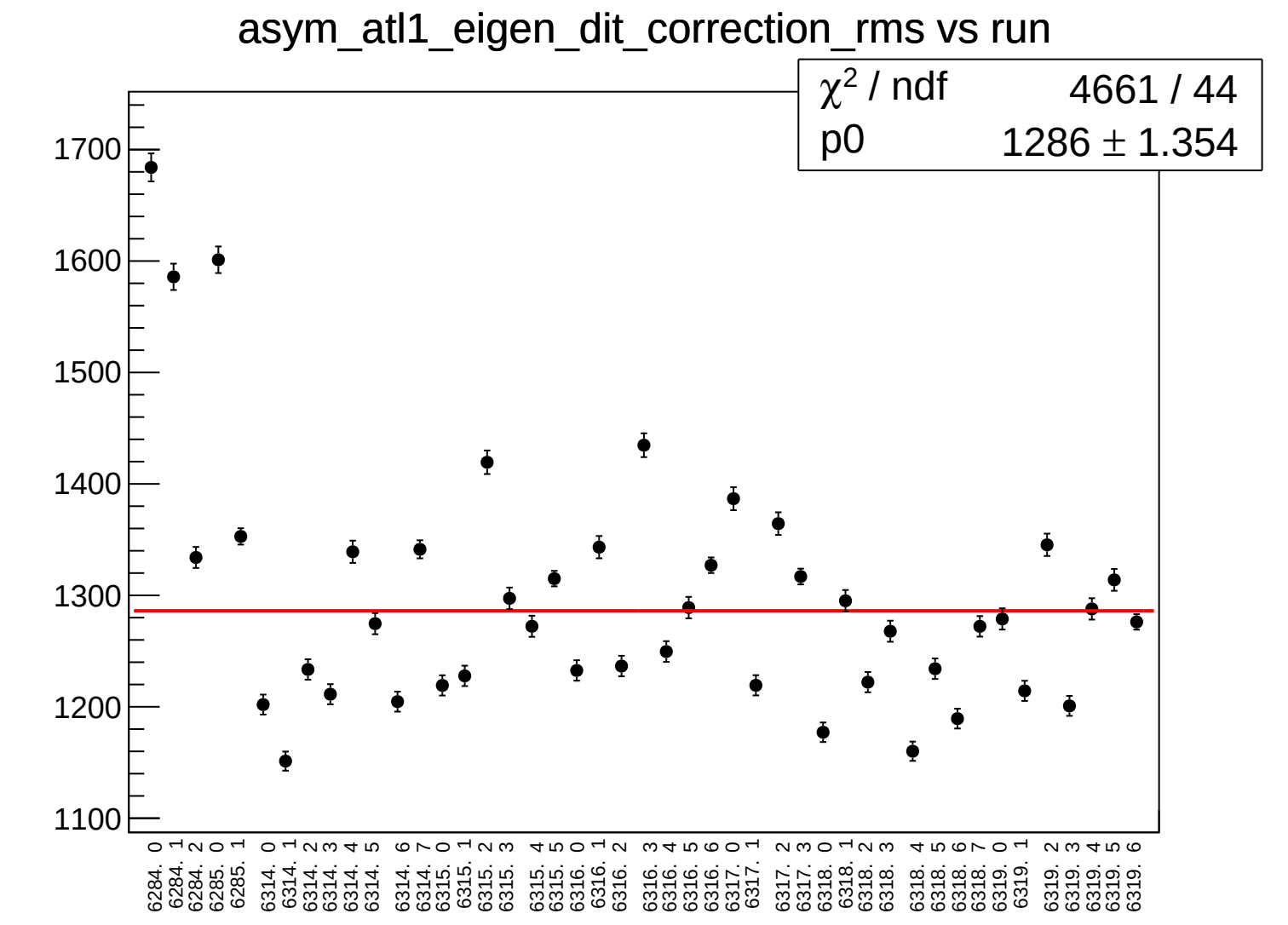
6319. 5
6319. 6


eigen_dit_asym_atl1_mean vs run
χ² / ndf 31.76 / 44
p0 4668 ± 3508
pull
Entries 45
Mean 385.2
Std Dev 0
pull1D
Entries 45
Mean 0.003048
Std Dev 0.8401


eigen_dit_asym_atl1_rms vs run
χ² / ndf 58.35 / 44
p0 2362 ± 2.48
2420
2400
2380
2360
2340
2320
2300
2280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 40.46 / 44
p0 −655.6 ± 1915
pull
Entries 45
Mean −934.9
Std Dev 0


pull1D
Entries 45
Mean 0.002119
Std Dev 0.9482


asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4661 / 44
p0 1286 ± 1.354
1700
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
6319. 0
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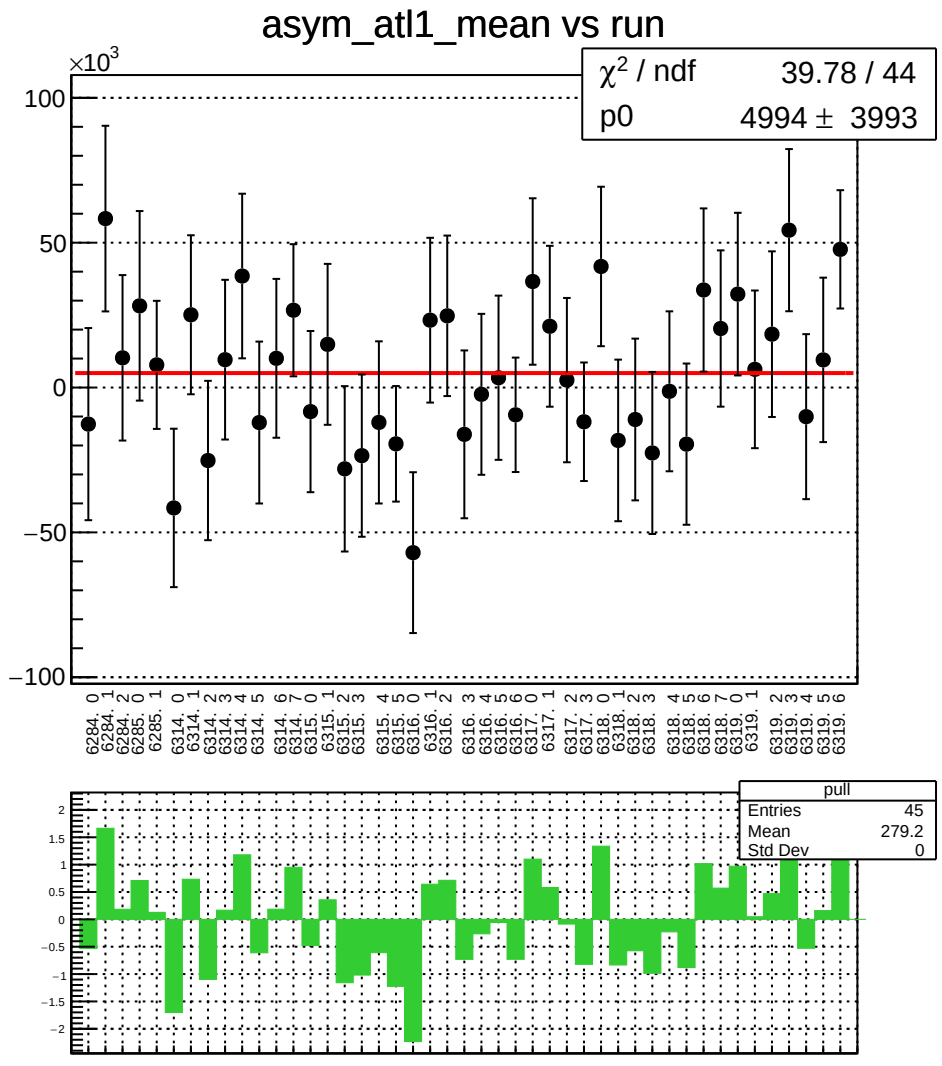
6319. 6


asym_atl1_mean vs run
×10^3
χ² / ndf 39.78 / 44
p0 4994 ± 3993
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 279.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007631
Std Dev 0.9402
8
7
6
5
4
3
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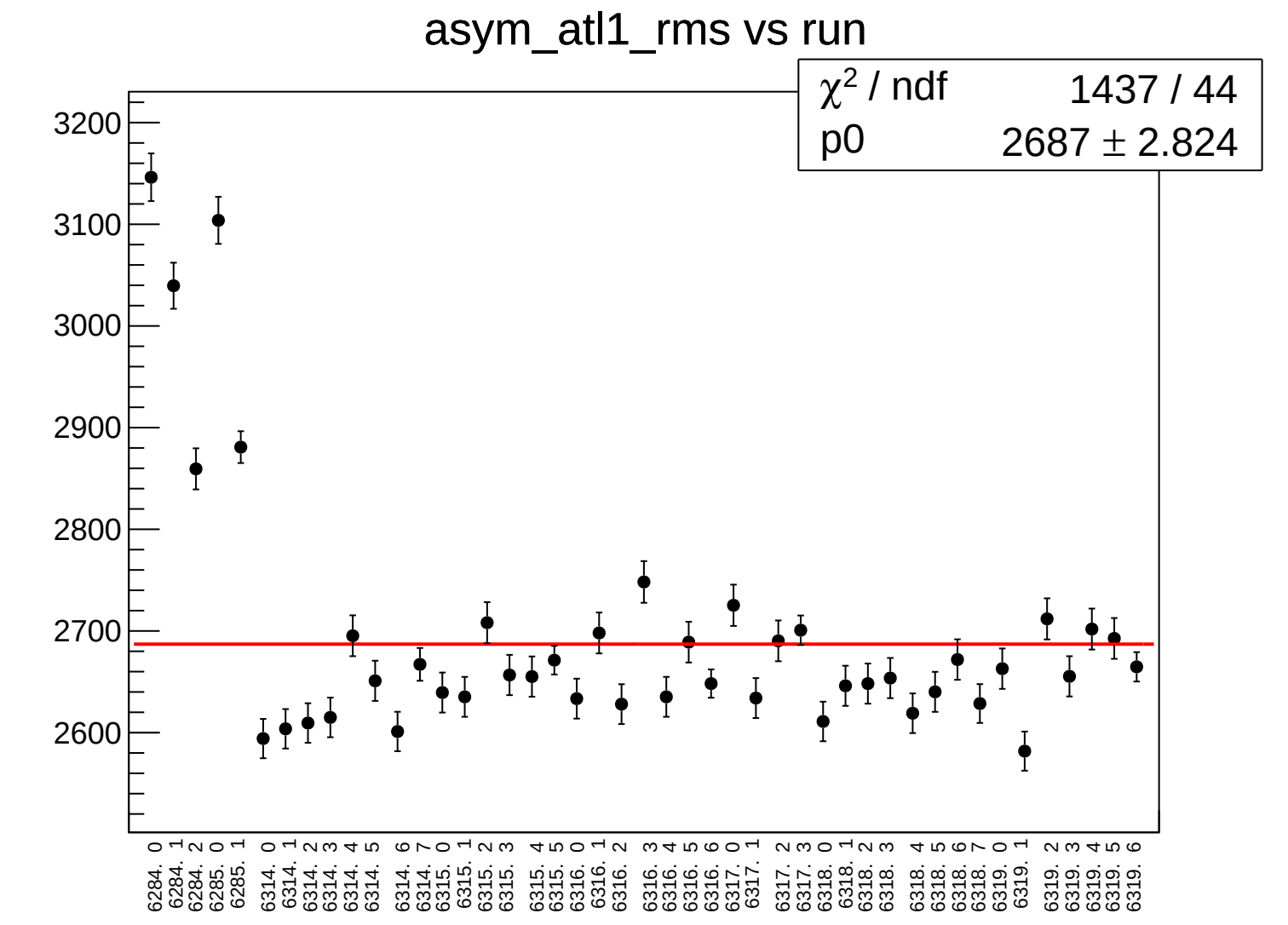
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_rms vs run
χ² / ndf 1437 / 44
p0 2687 ± 2.824
3200
3100
3000
2900
2800
2700
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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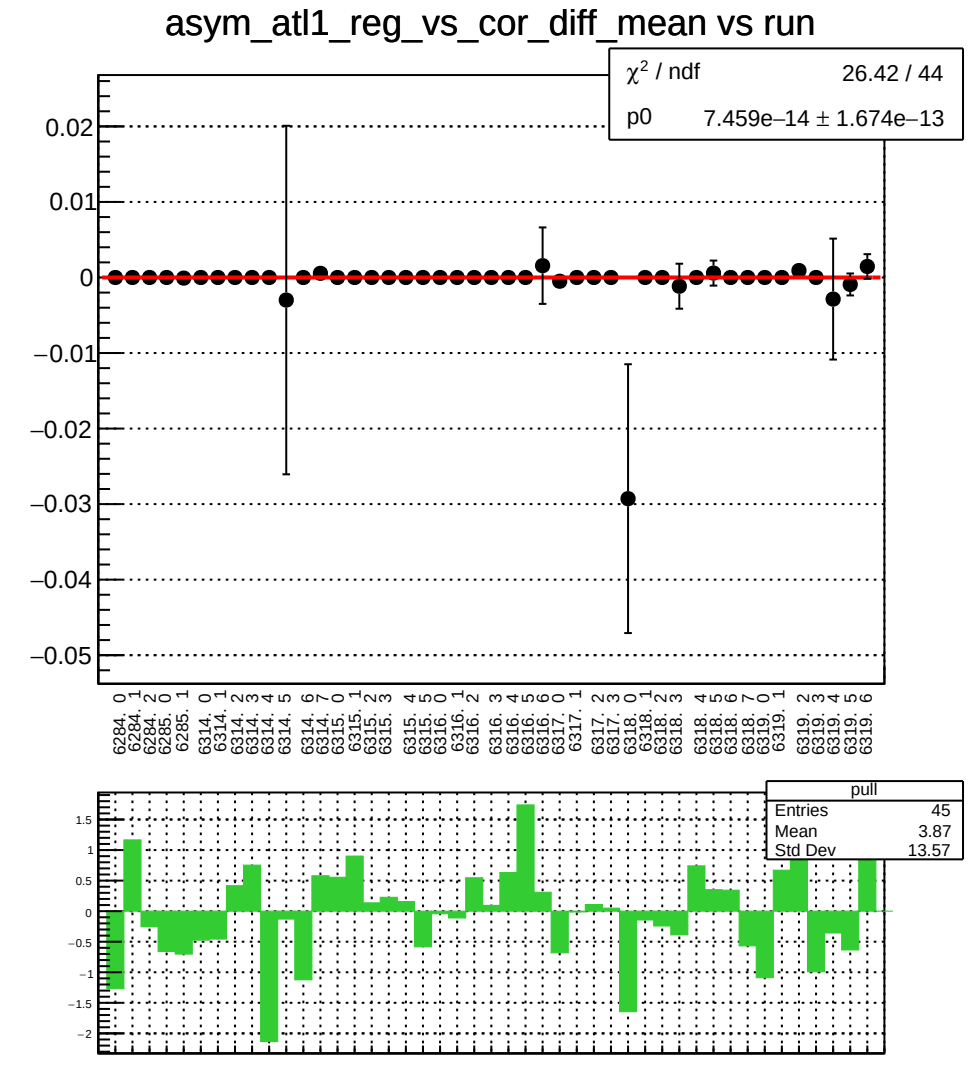
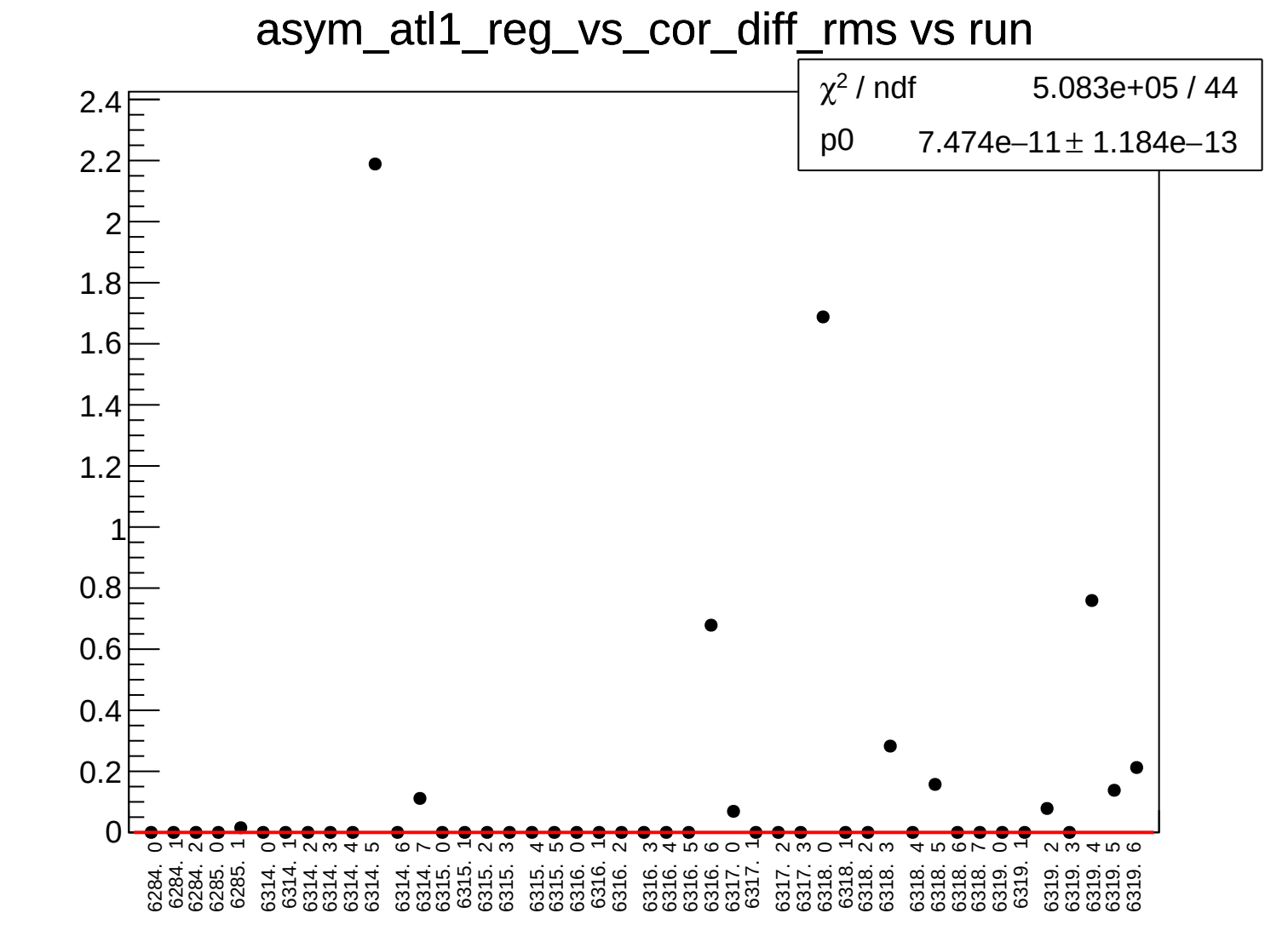
6319. 6


asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 26.42 / 44
p0 7.459e−14 ± 1.674e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3.87
Std Dev 13.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04912
Std Dev 0.7646
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.083e+05 / 44
p0 7.474e−11 ± 1.184e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6319. 3
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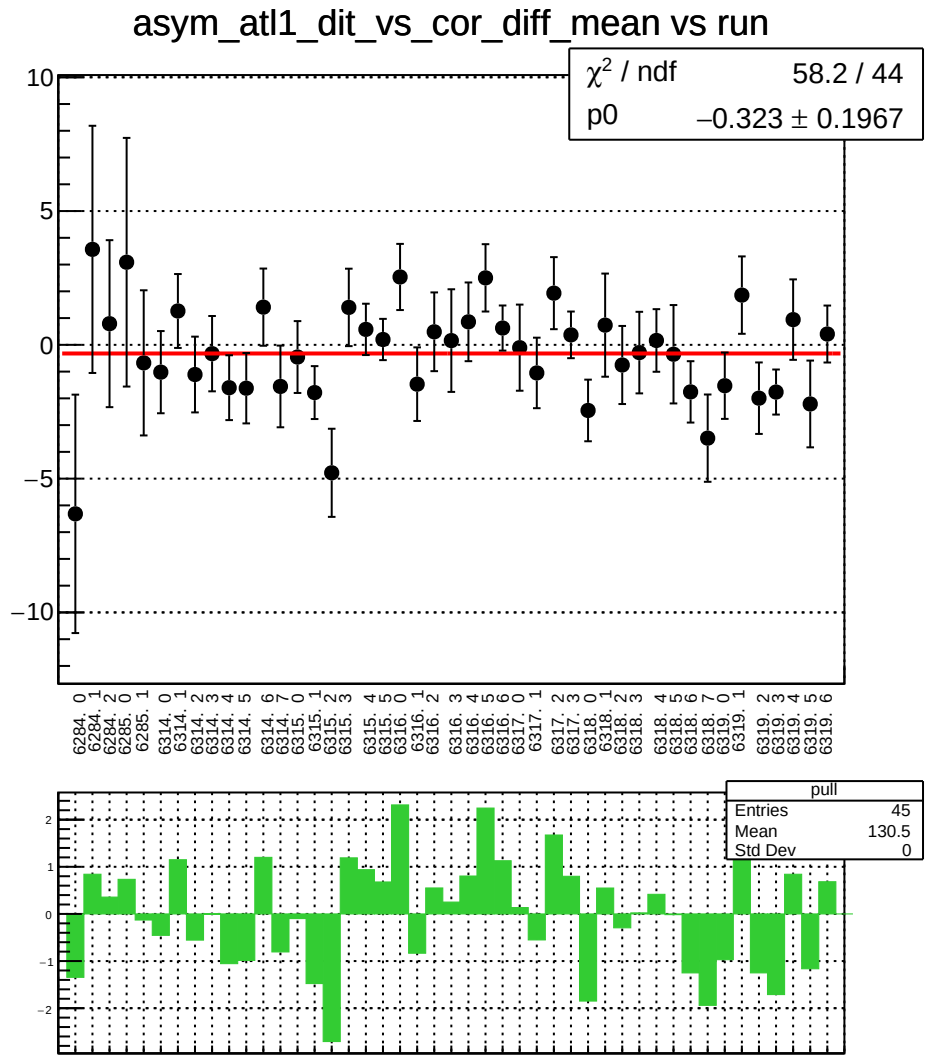
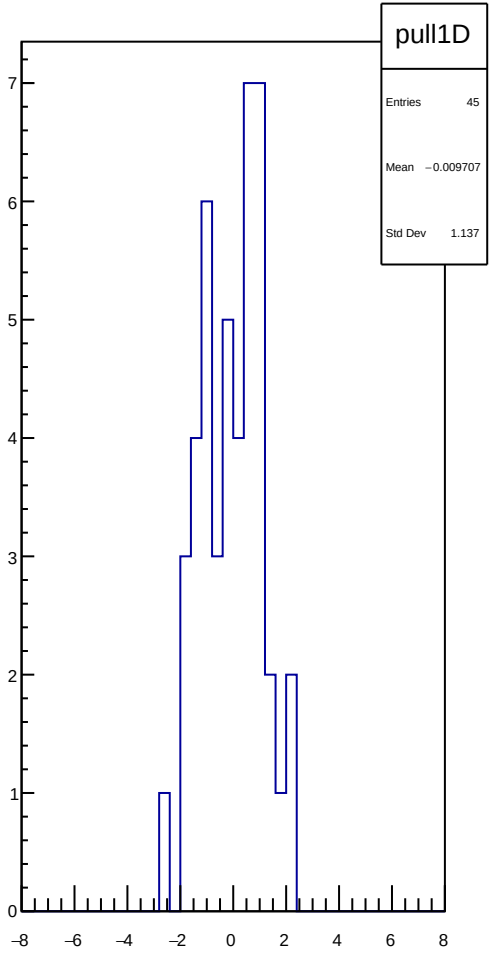
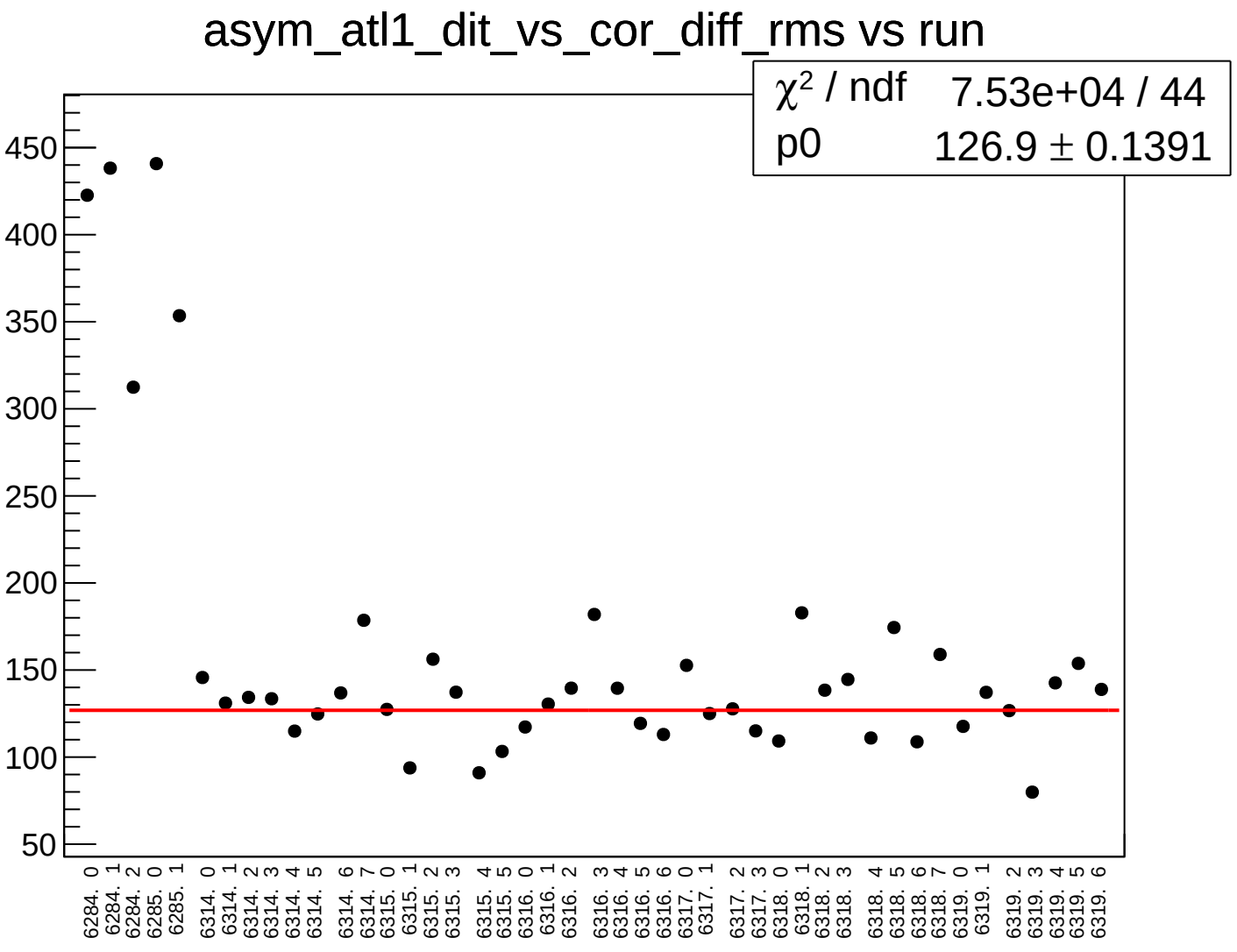
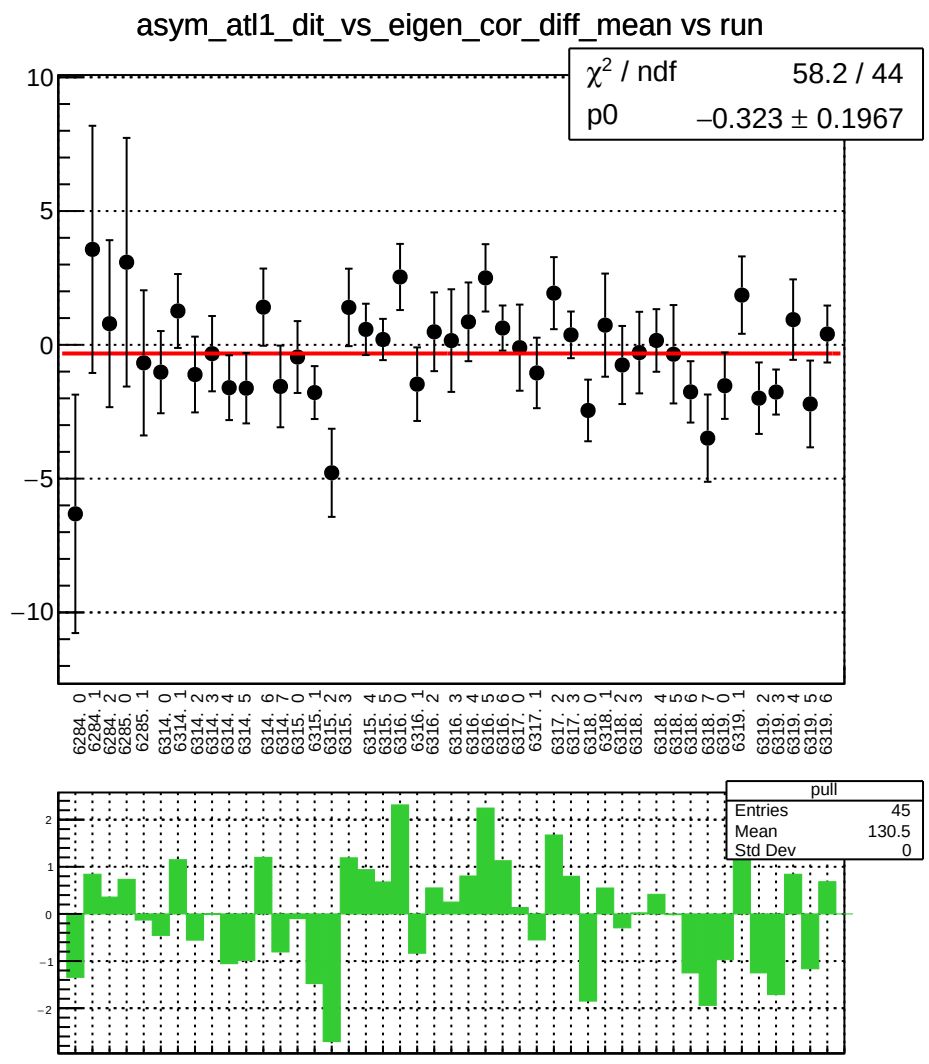
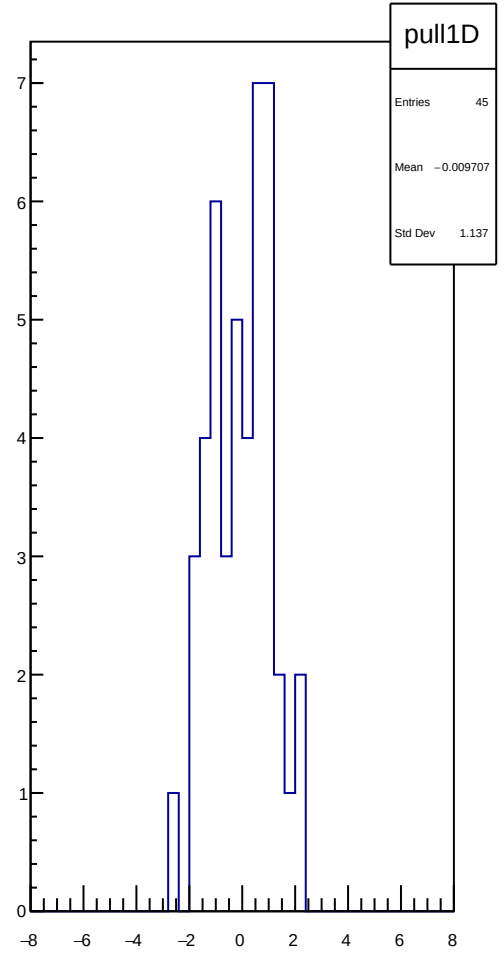
6319. 5
6319. 6


asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 58.2 / 44
p0 −0.323 ± 0.1967
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009707
Std Dev 1.137
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 44
p0 126.9 ± 0.1391
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.2 / 44
p0 −0.323 ± 0.1967
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009707
Std Dev 1.137
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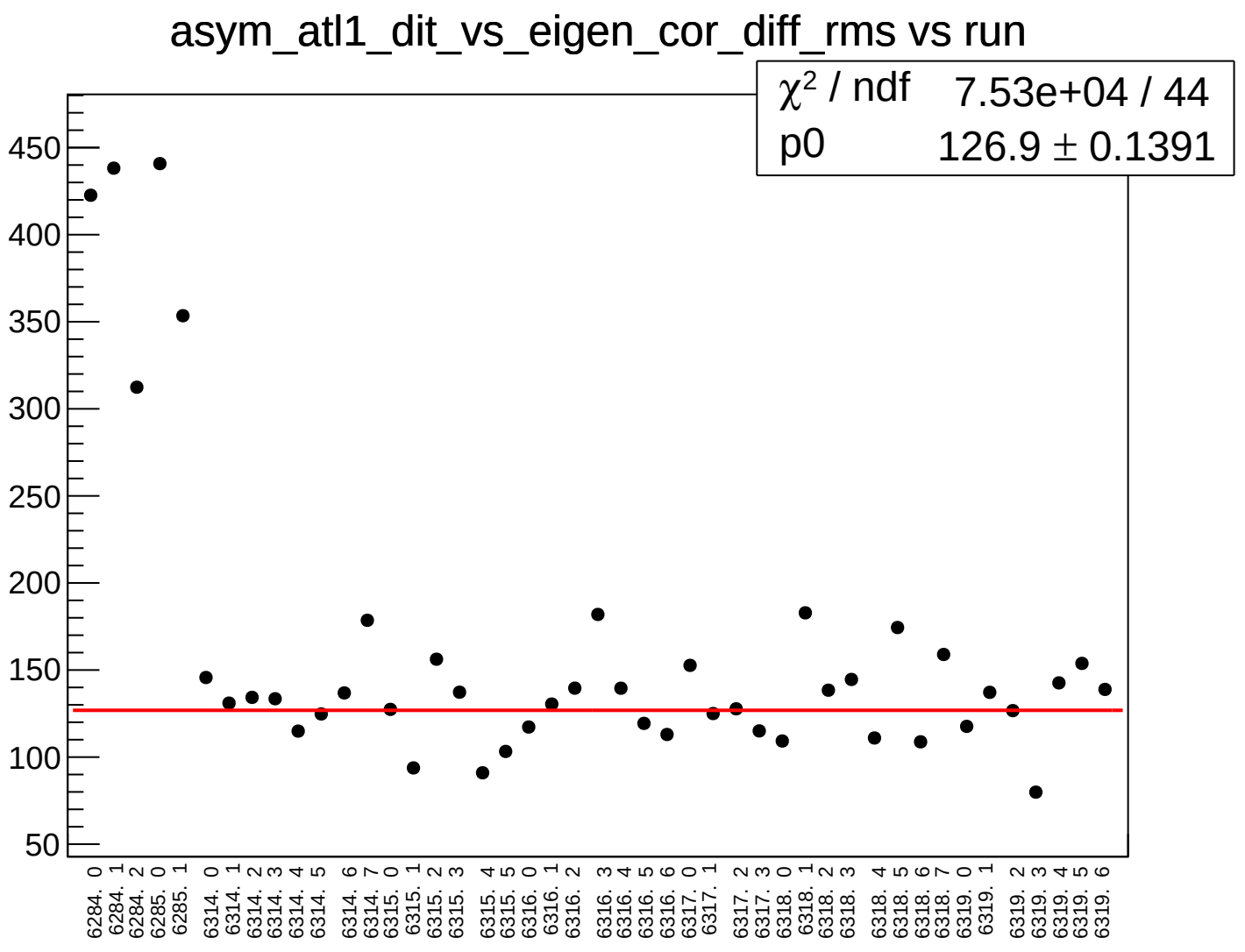
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 44
p0 126.9 ± 0.1391
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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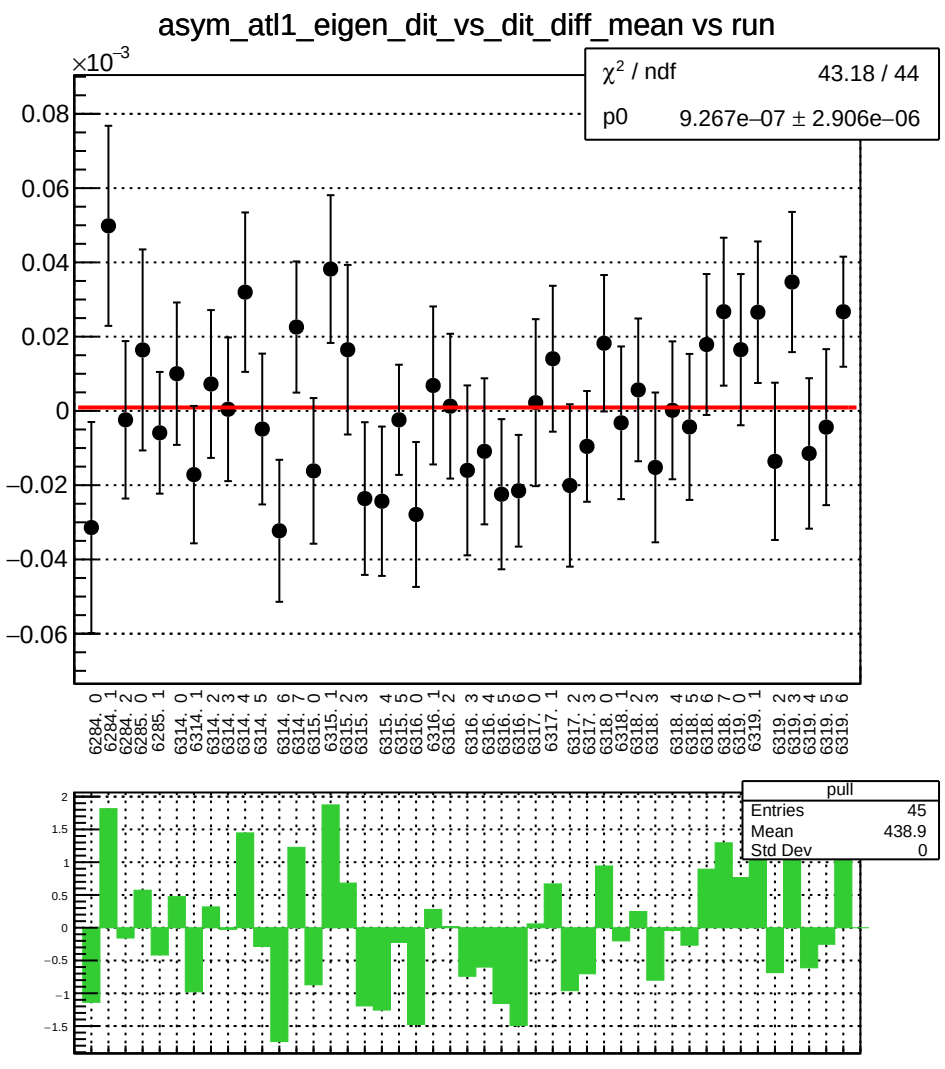
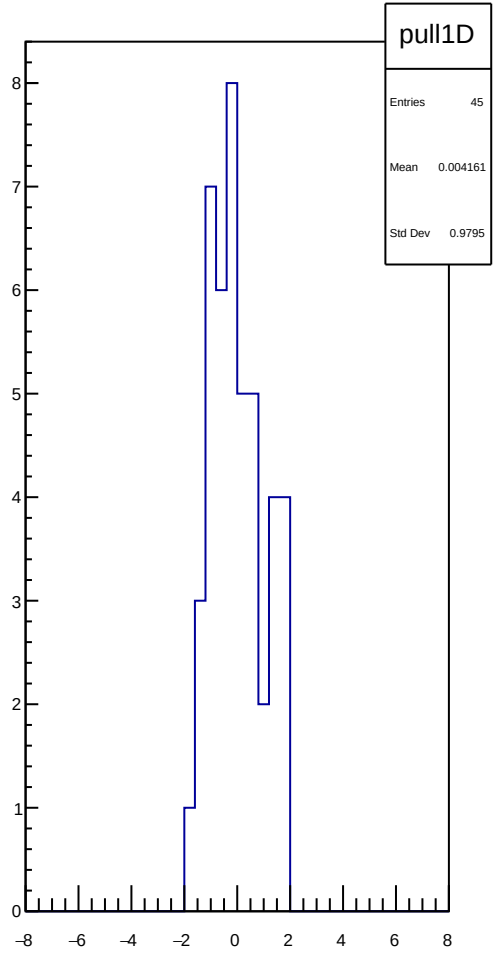
6319. 5
6319. 6


asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.18 / 44
p0 9.267e−07 ± 2.906e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 438.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.004161
Std Dev 0.9795
8
7
6
5
4
3
2
1
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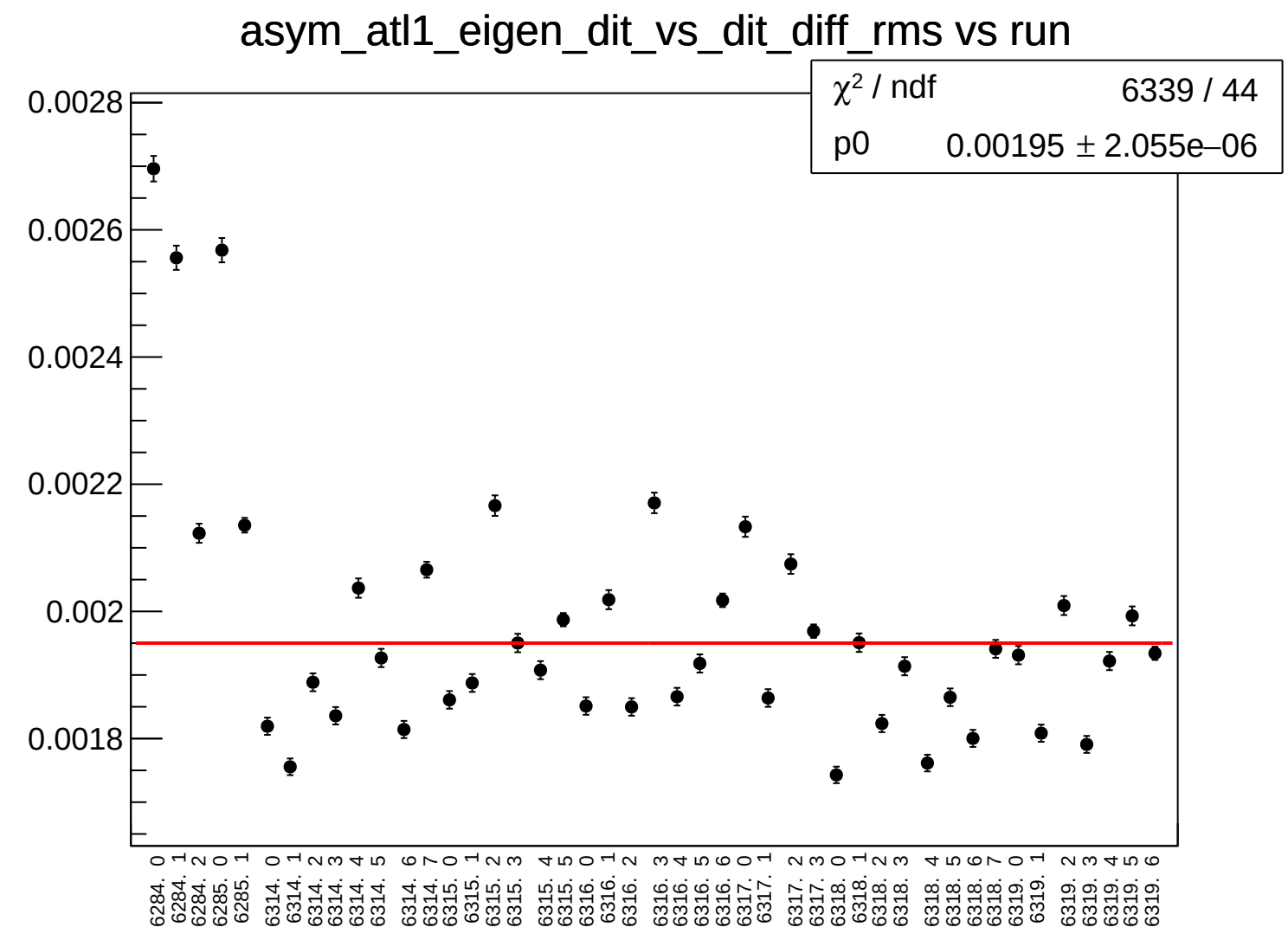
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6339 / 44
p0 0.00195 ± 2.055e–06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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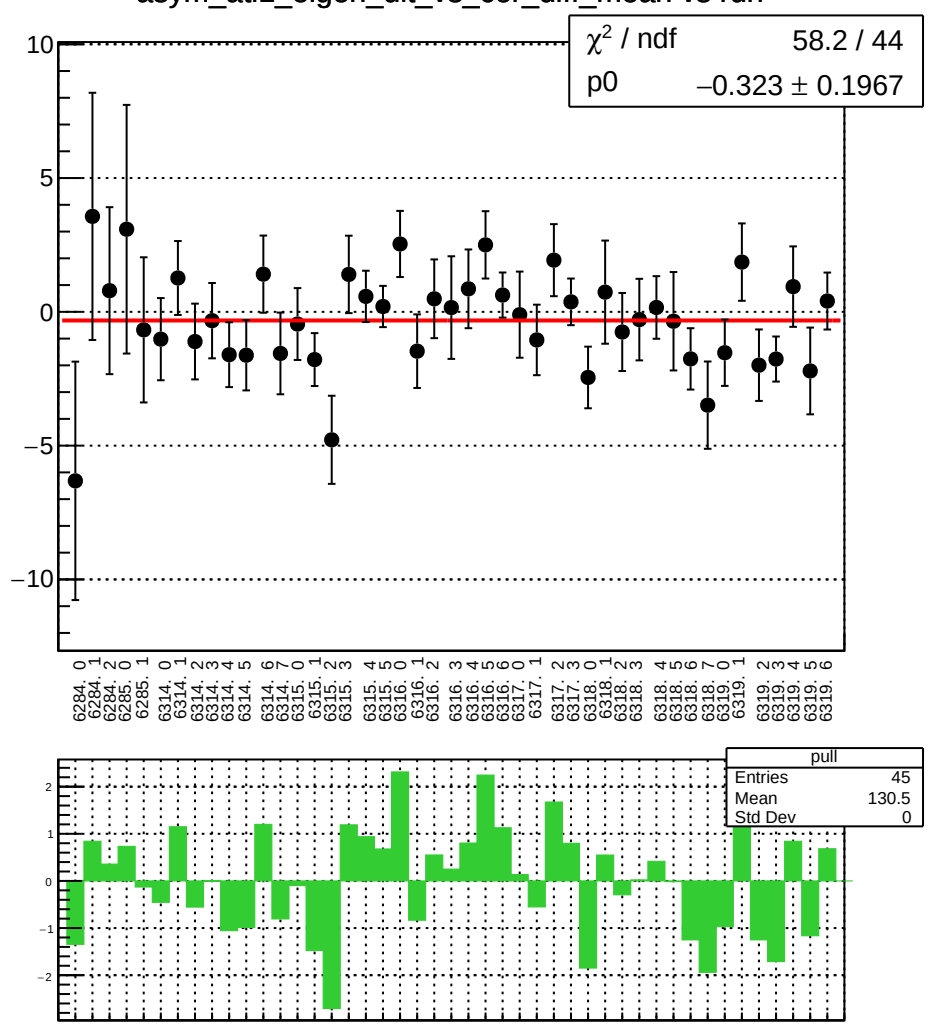
6319. 5
6319. 6


asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.2 / 44
p0 −0.323 ± 0.1967
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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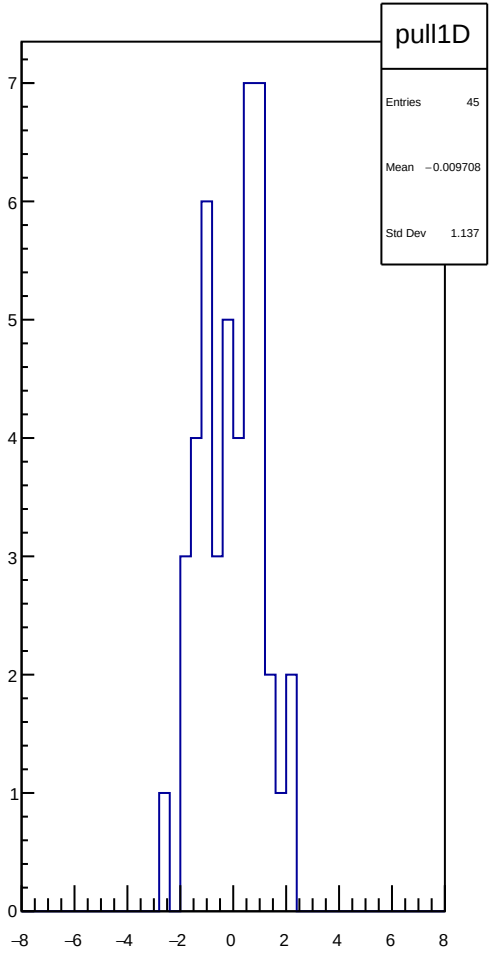
6319. 5
6319. 6
pull
Entries 45
Mean 130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009708
Std Dev 1.137
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5
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1
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−8
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−4
−2
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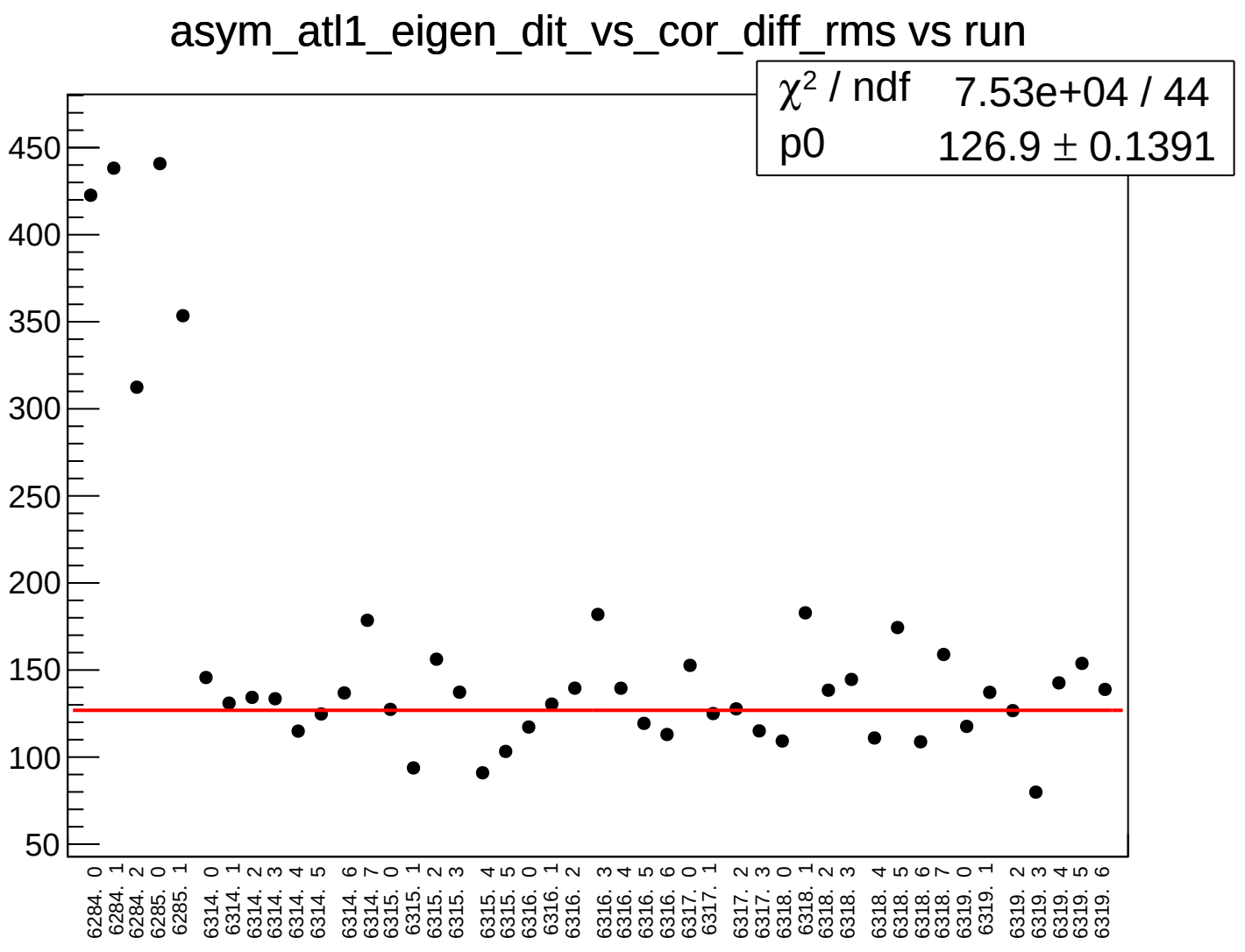
2
4
6
8


asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 44
p0 126.9 ± 0.1391
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
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6317. 3
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6318. 2
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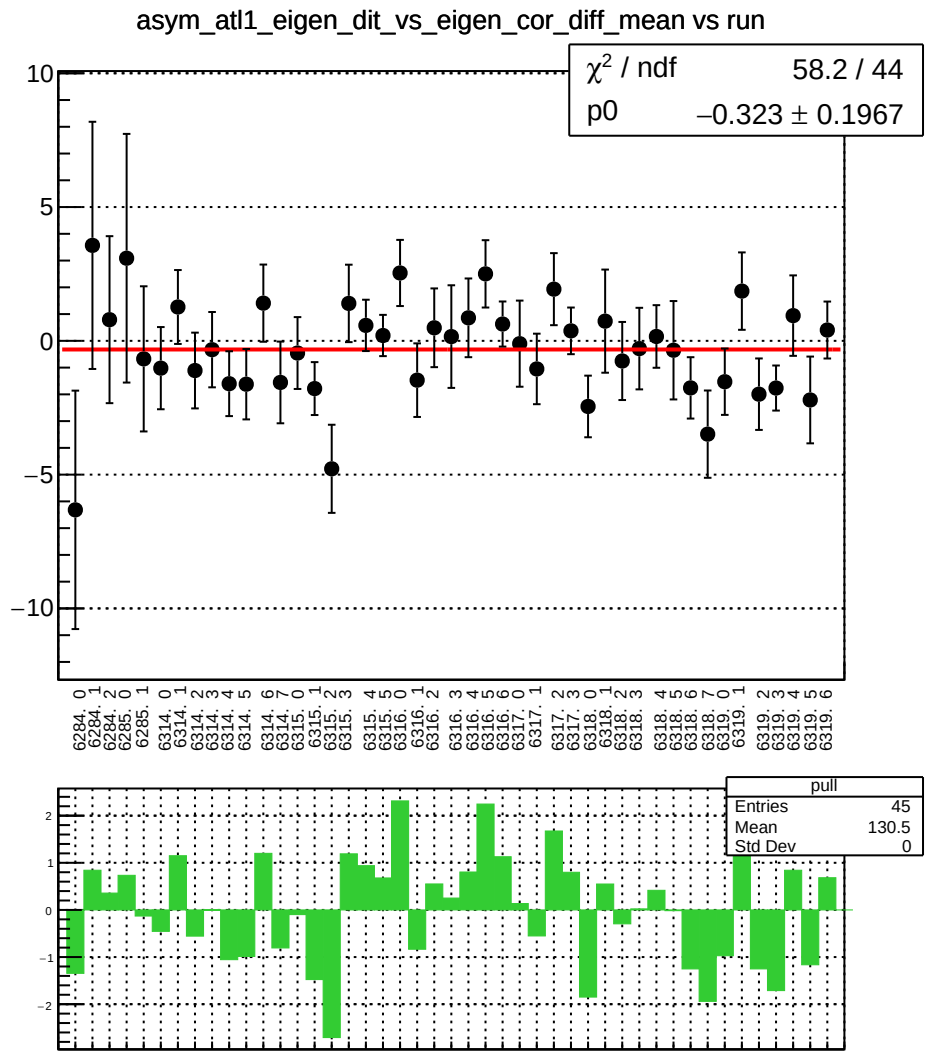
6319. 6


asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.2 / 44
p0 −0.323 ± 0.1967
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6316. 1
6316. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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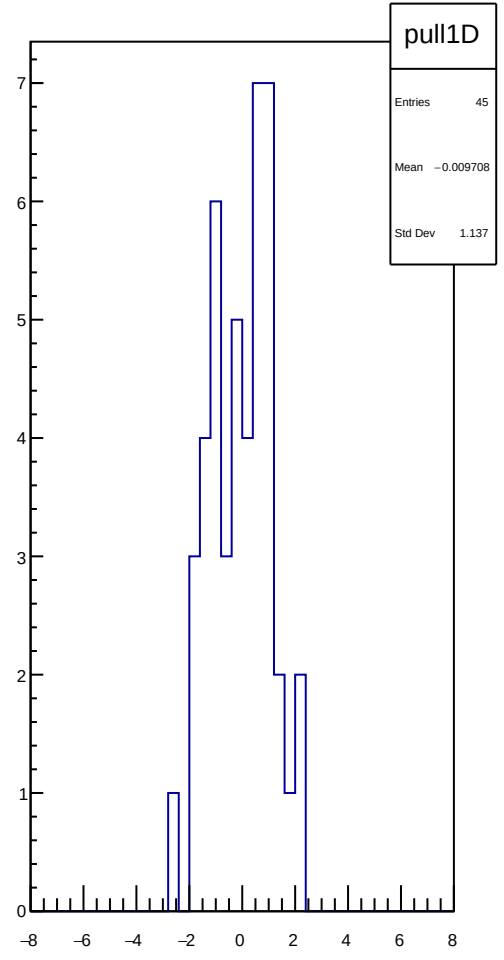
6319. 5
6319. 6
pull
Entries 45
Mean 130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009708
Std Dev 1.137
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6
5
4
3
2
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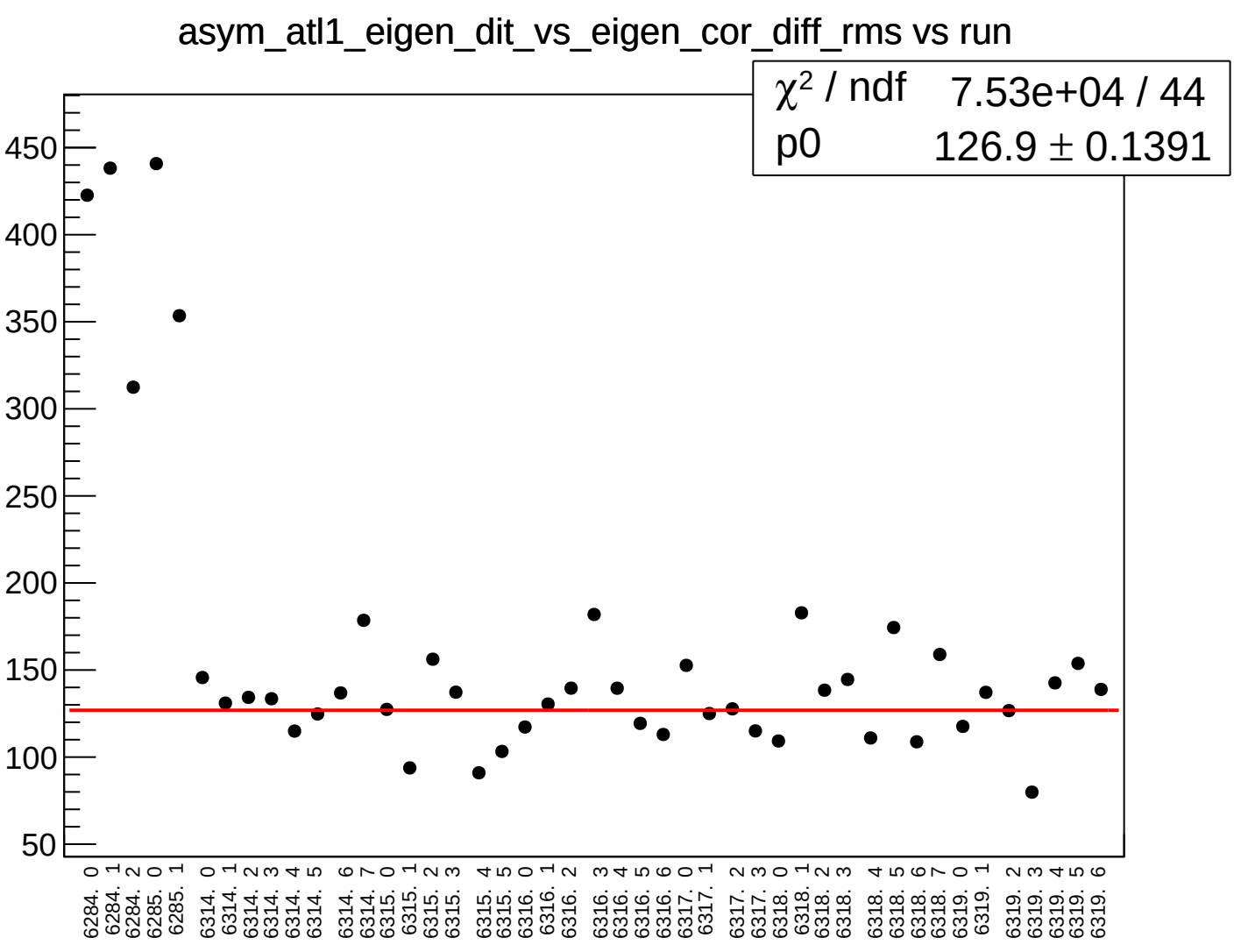
−4
−2
0
2
4
6
8


asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 44
p0 126.9 ± 0.1391
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
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6316. 0
6316. 1
6316. 2
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6316. 4
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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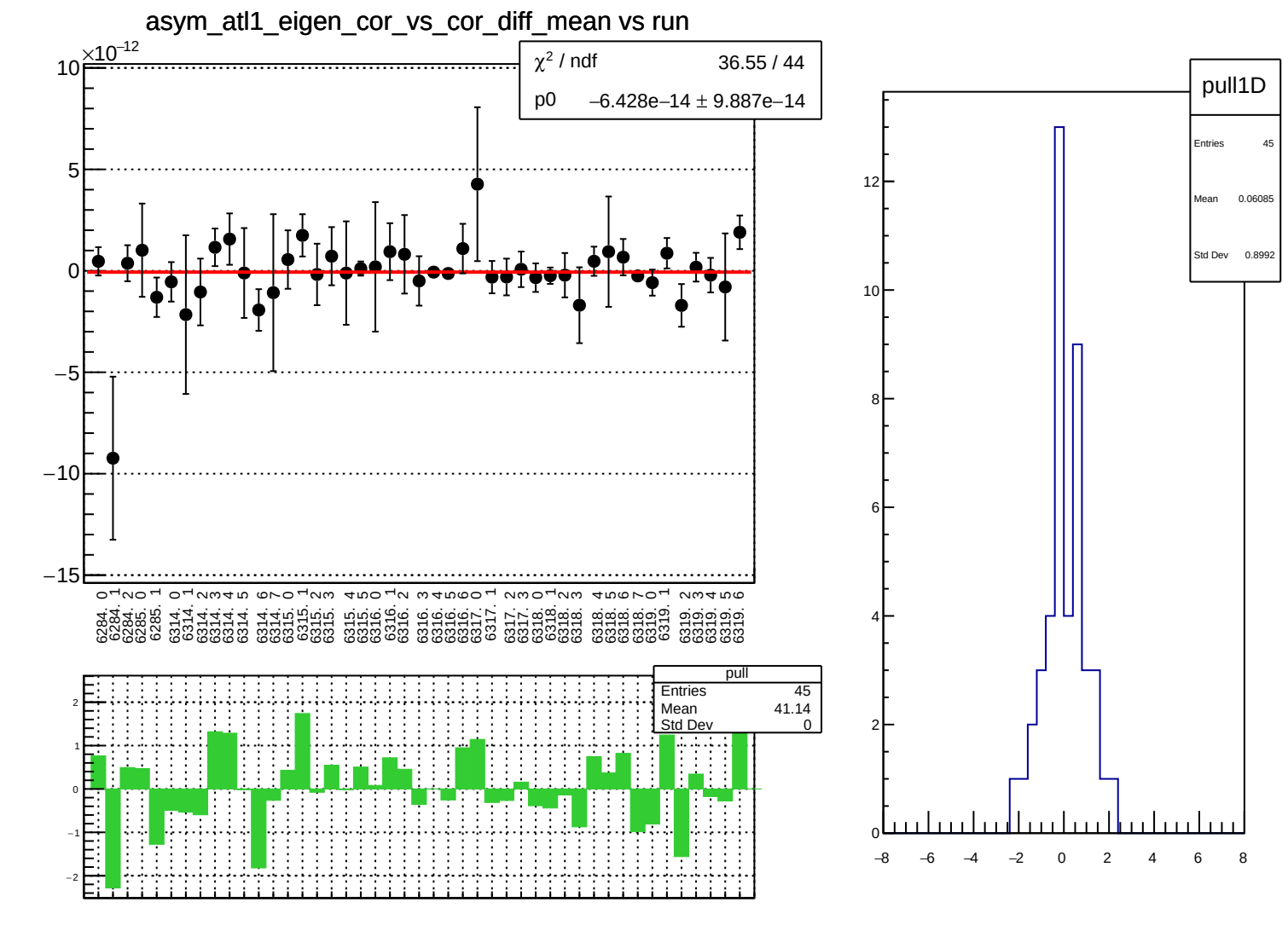
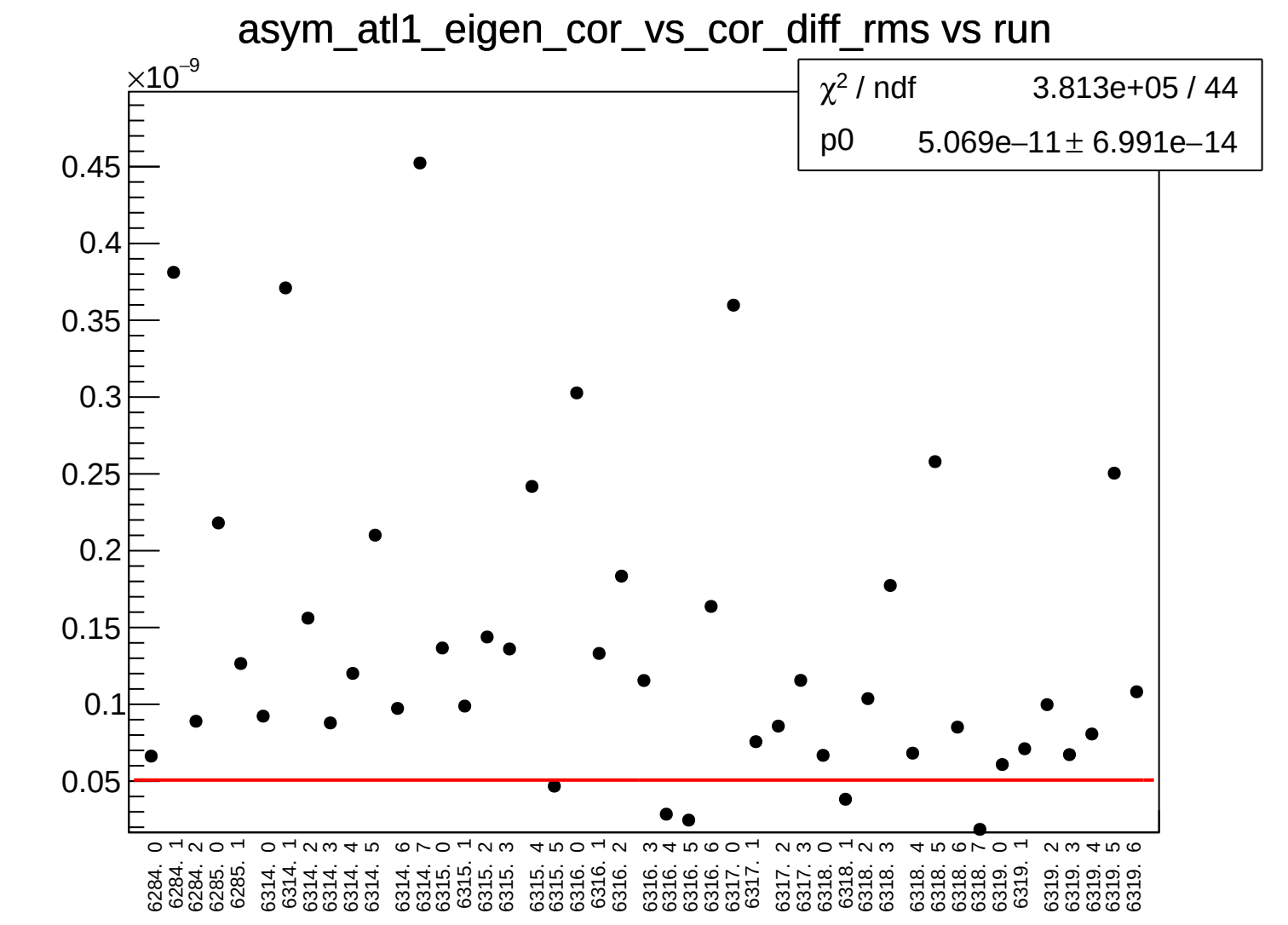
6319. 6


asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.55 / 44
p0 −6.428e−14 ± 9.887e−14
pull
Entries 45
Mean 41.14
Std Dev 0
pull1D
Entries 45
Mean 0.06085
Std Dev 0.8992


asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.813e+05 / 44
p0 5.069e−11 ± 6.991e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6318. 6
6318. 7
6319. 0
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6319. 2
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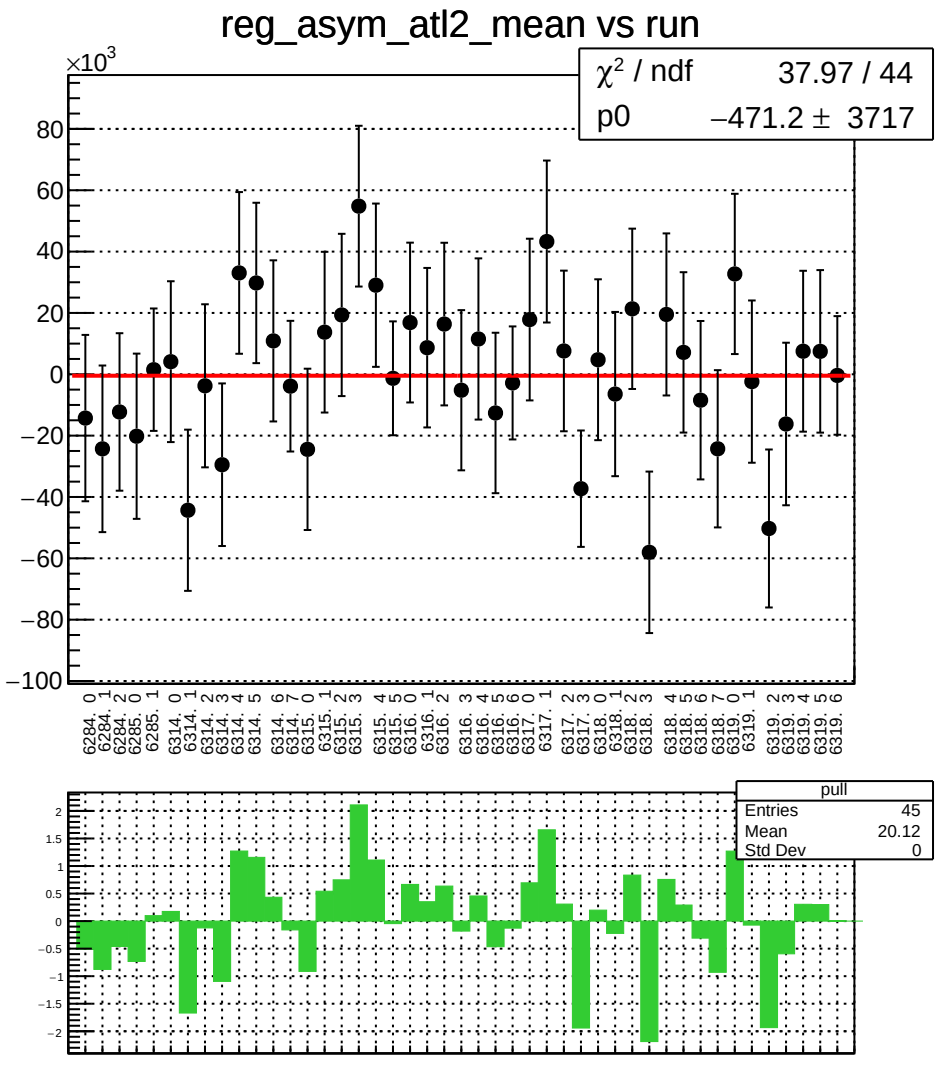
6319. 5
6319. 6


reg_asym_atl2_mean vs run
×10^3
χ² / ndf 37.97 / 44
p0 −471.2 ± 3717
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 7
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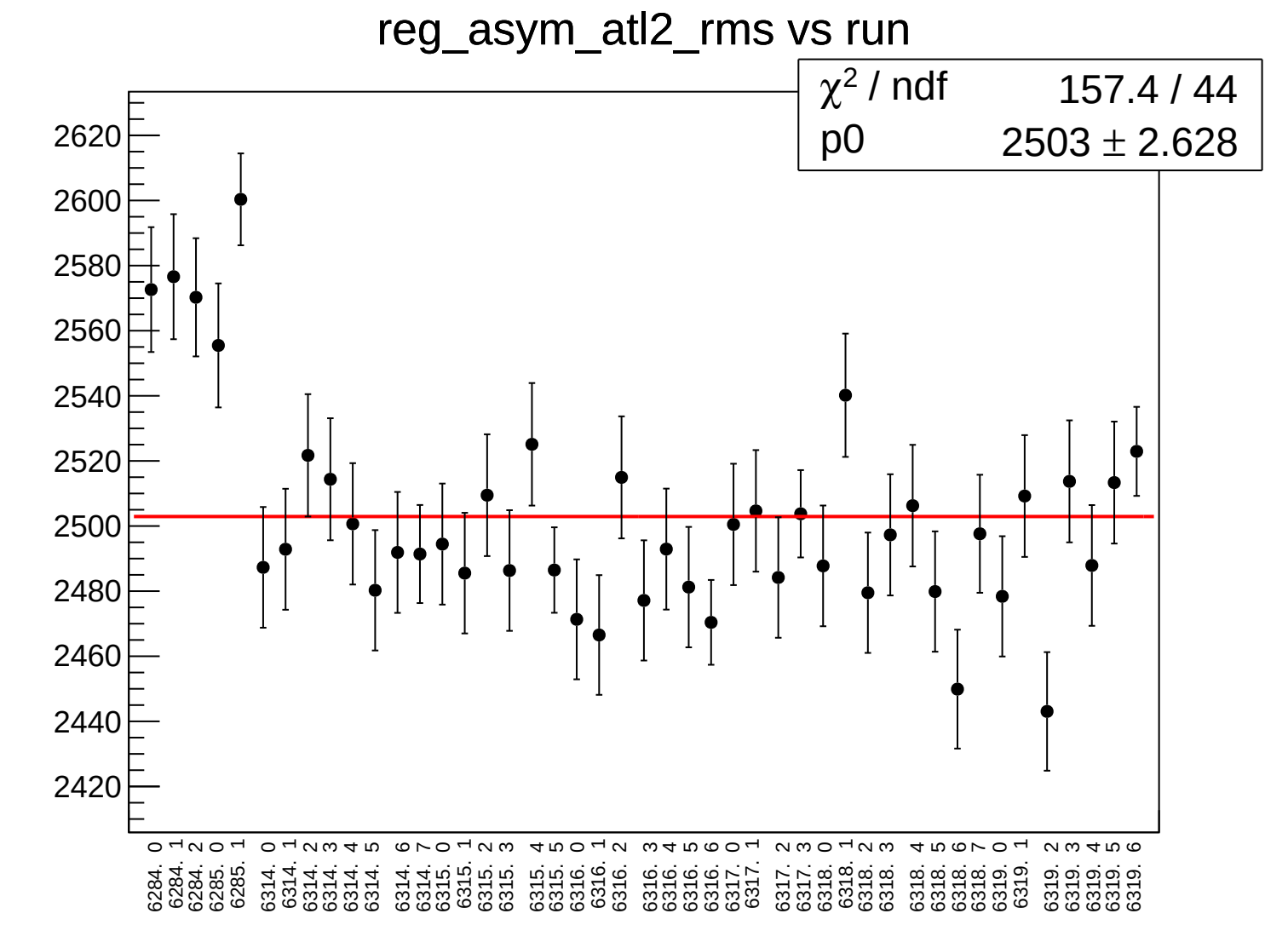
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01838
Std Dev 0.9184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_rms vs run
χ² / ndf 157.4 / 44
p0 2503 ± 2.628
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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6319. 2
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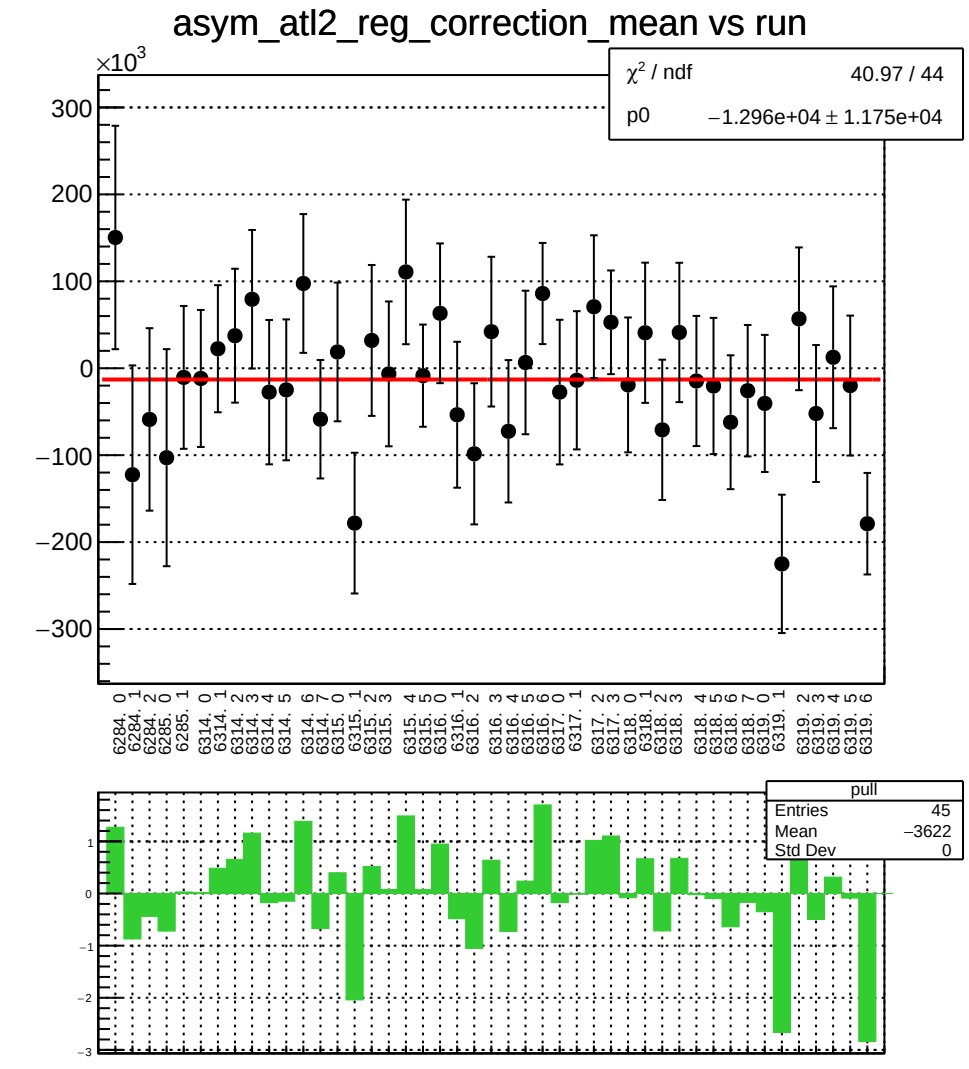
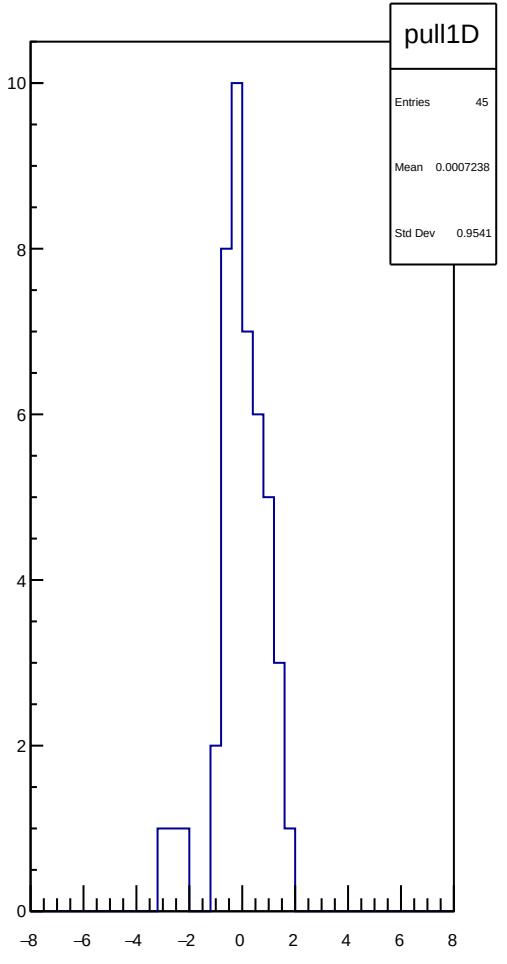
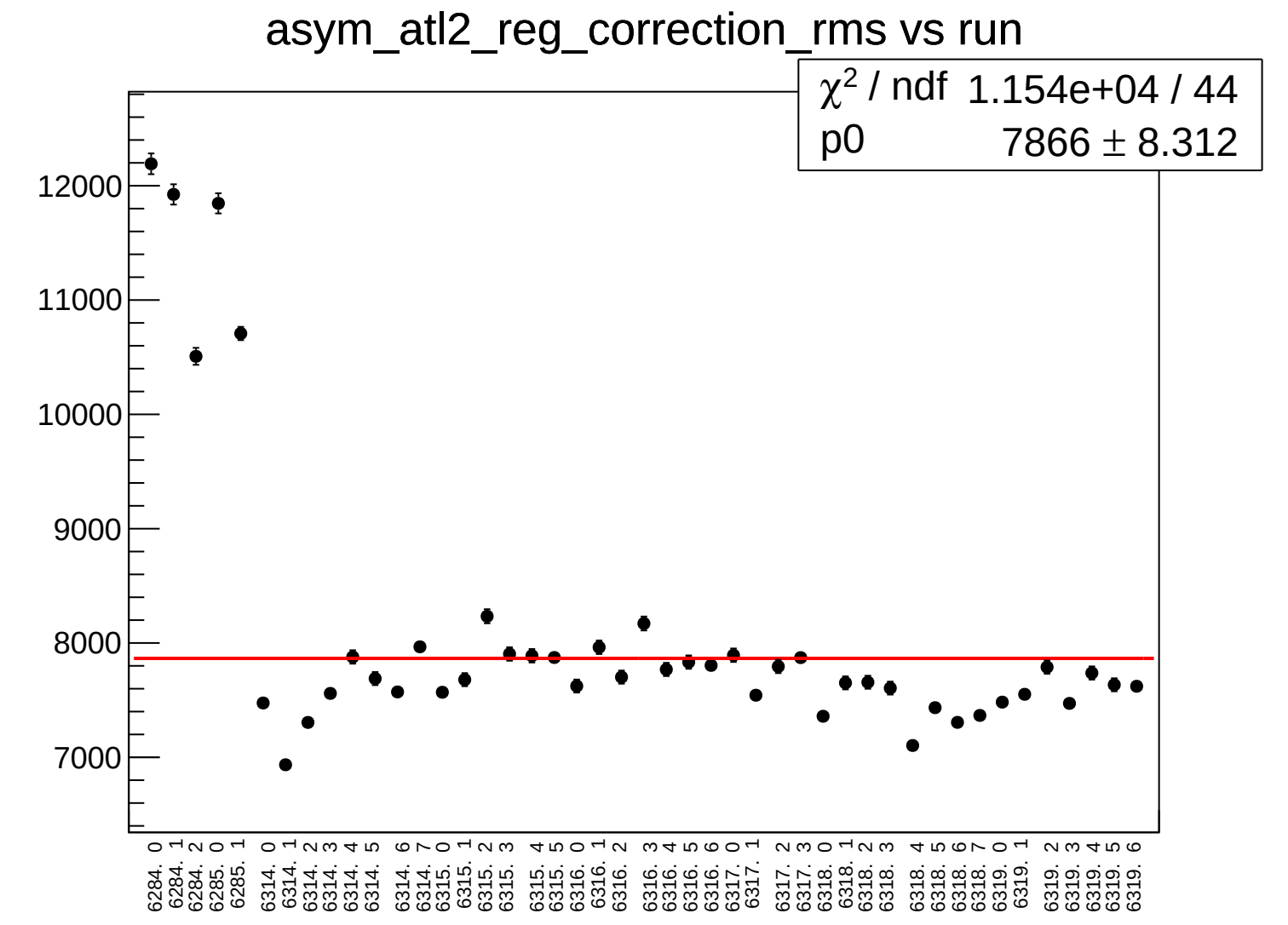
6319. 5
6319. 6


asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −1.296e+04 ± 1.175e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3622
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0007238
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_reg_correction_rms vs run
χ² / ndf 1.154e+04 / 44
p0 7866 ± 8.312
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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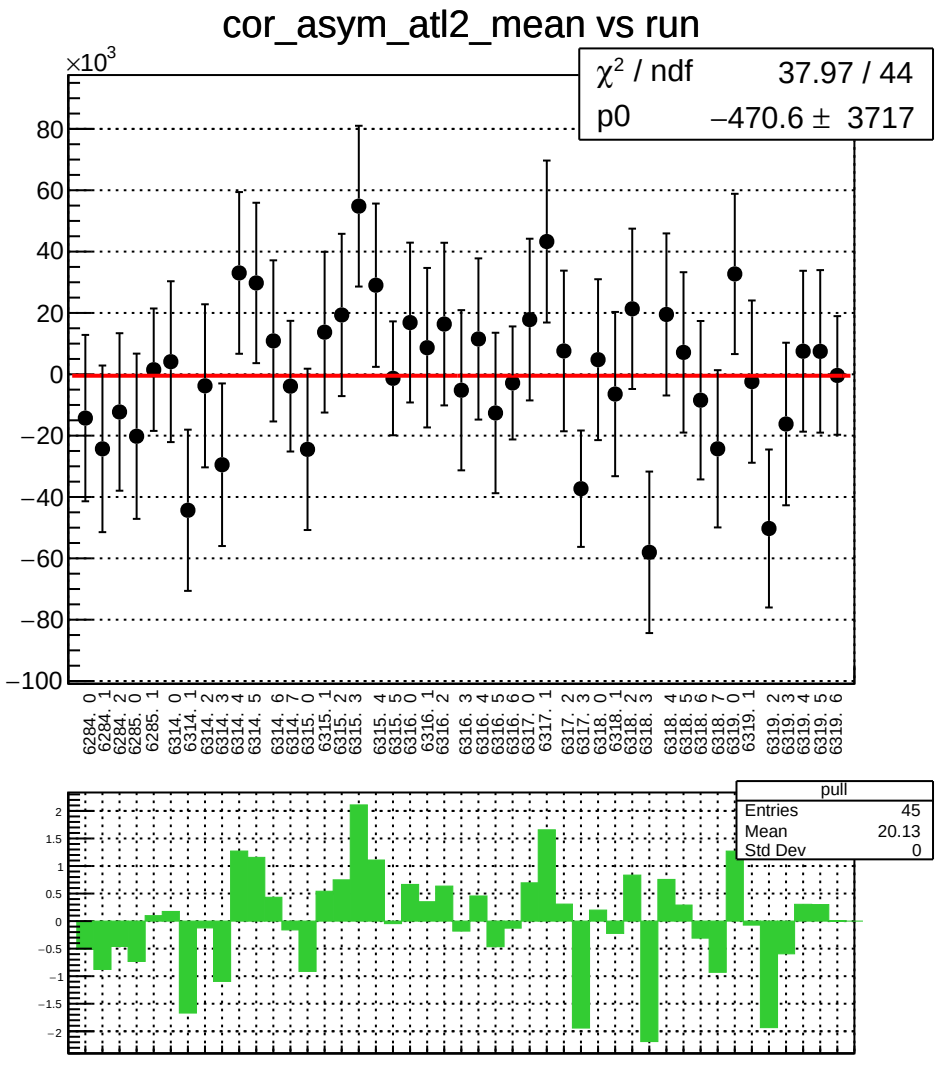
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl2_mean vs run
×10^3
χ² / ndf 37.97 / 44
p0 −470.6 ± 3717
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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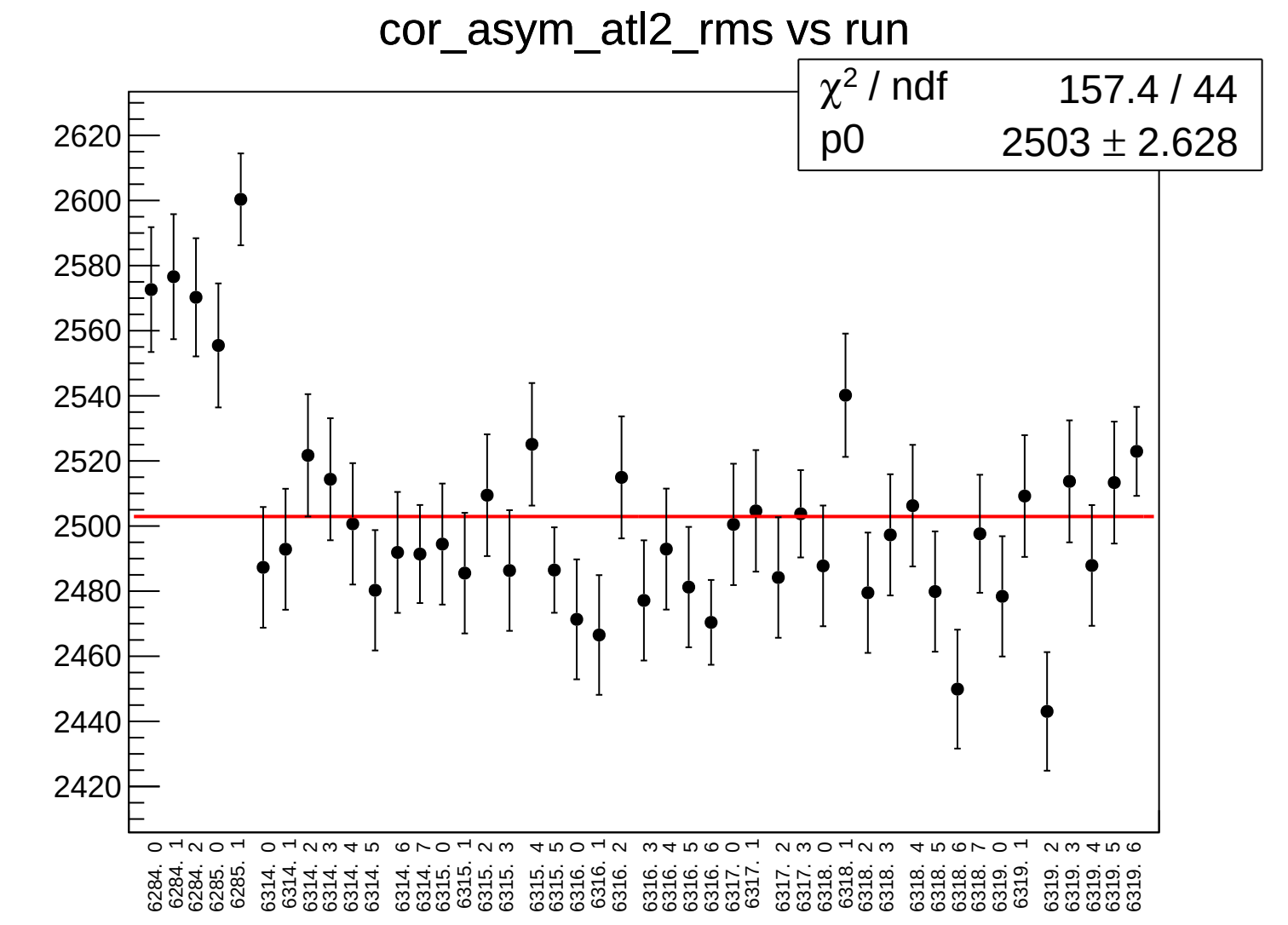
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01838
Std Dev 0.9184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl2_rms vs run
χ² / ndf 157.4 / 44
p0 2503 ± 2.628
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
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6315. 3
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6315. 5
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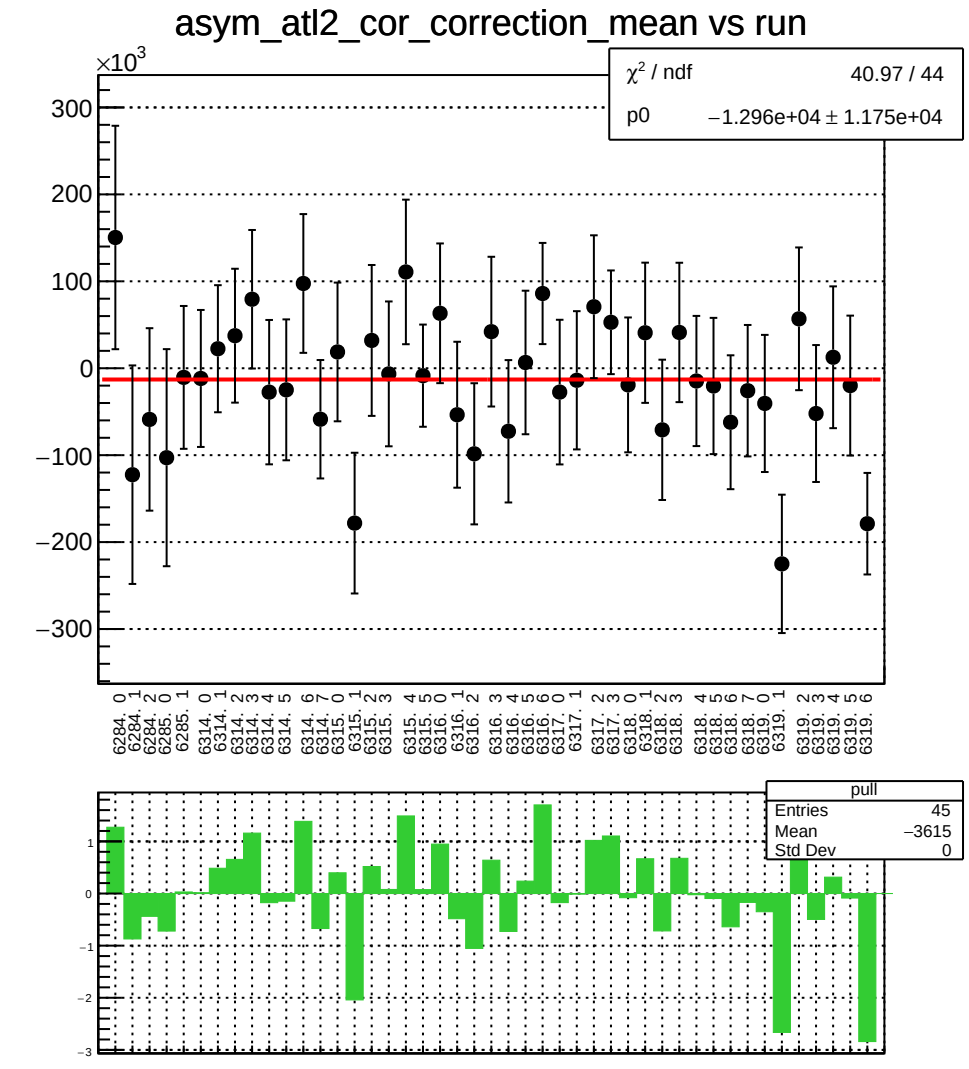
asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −1.296e+04 ± 1.175e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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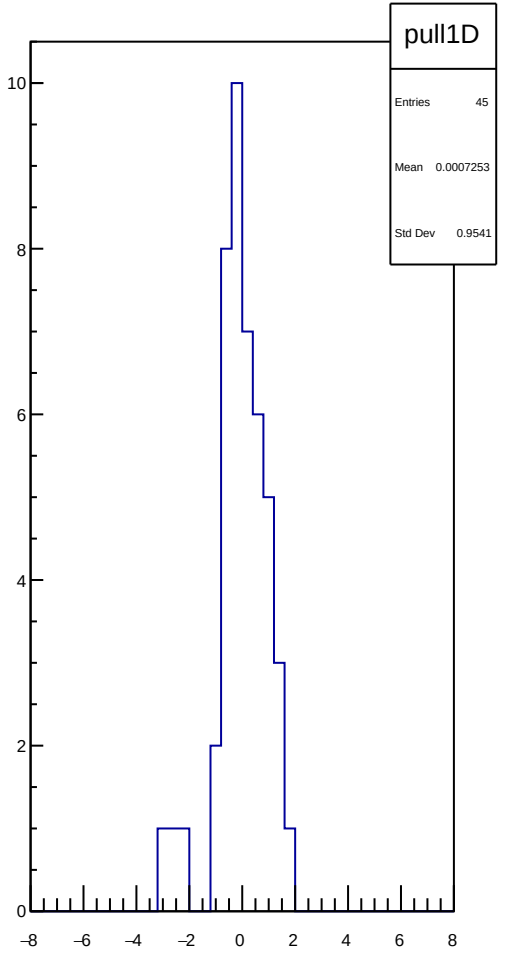
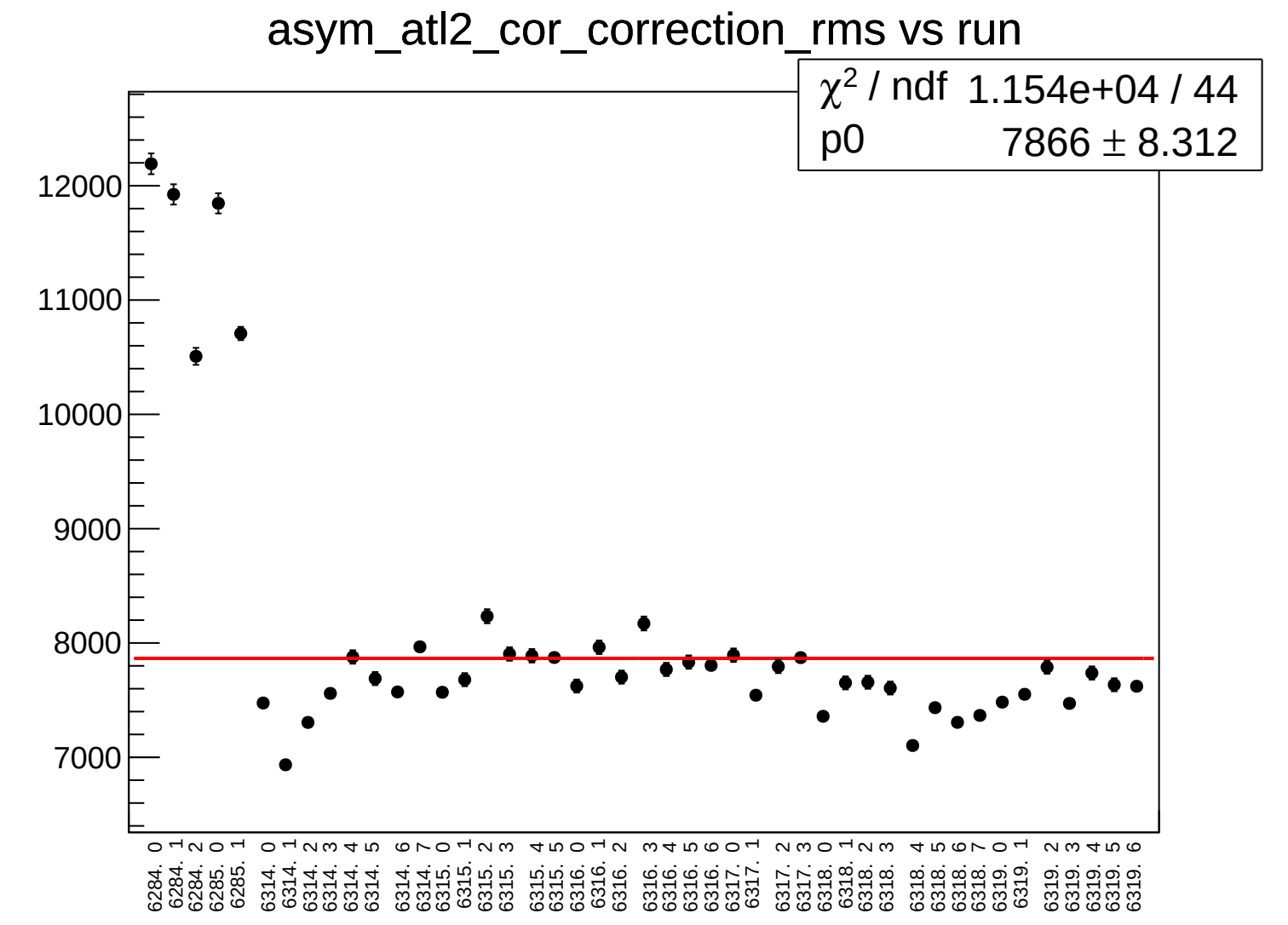
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3615
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0007253
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_cor_correction_rms vs run
χ² / ndf 1.154e+04 / 44
p0 7866 ± 8.312
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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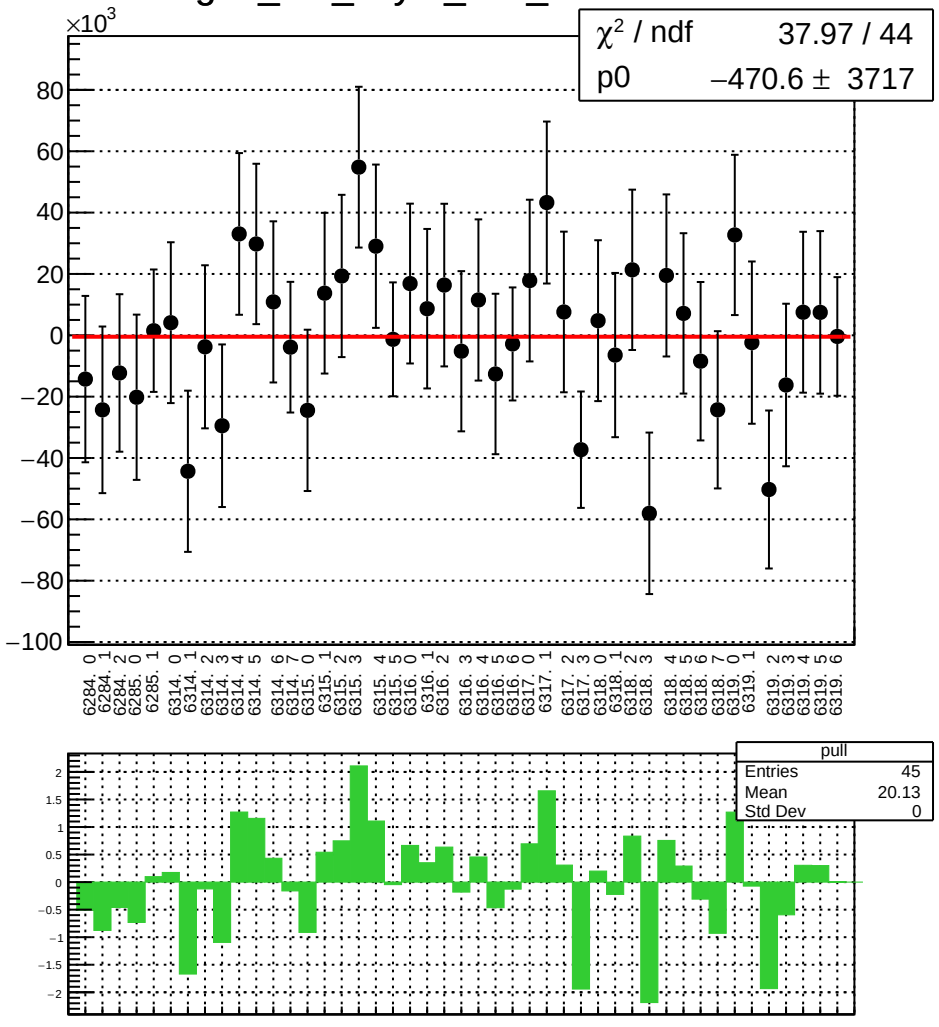
6319. 6


eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 37.97 / 44
p0 −470.6 ± 3717
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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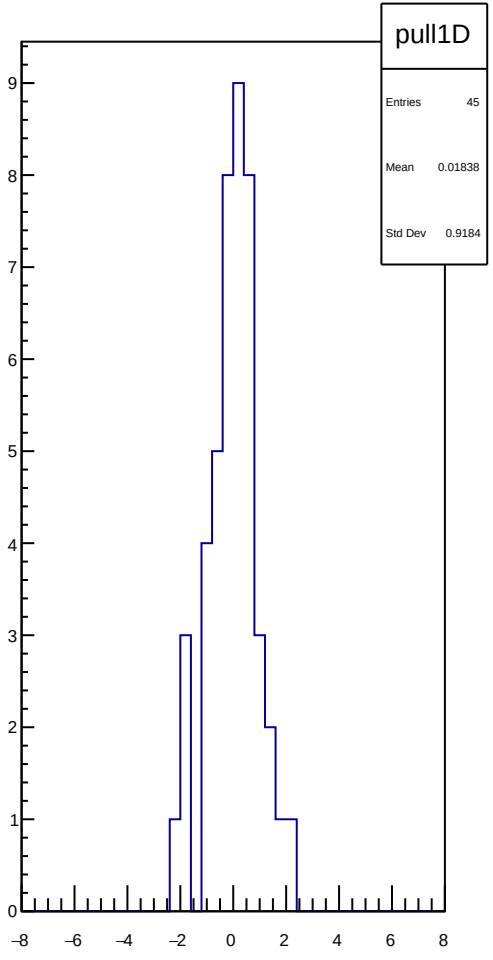
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01838
Std Dev 0.9184
9
8
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5
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1
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−8
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−4
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6
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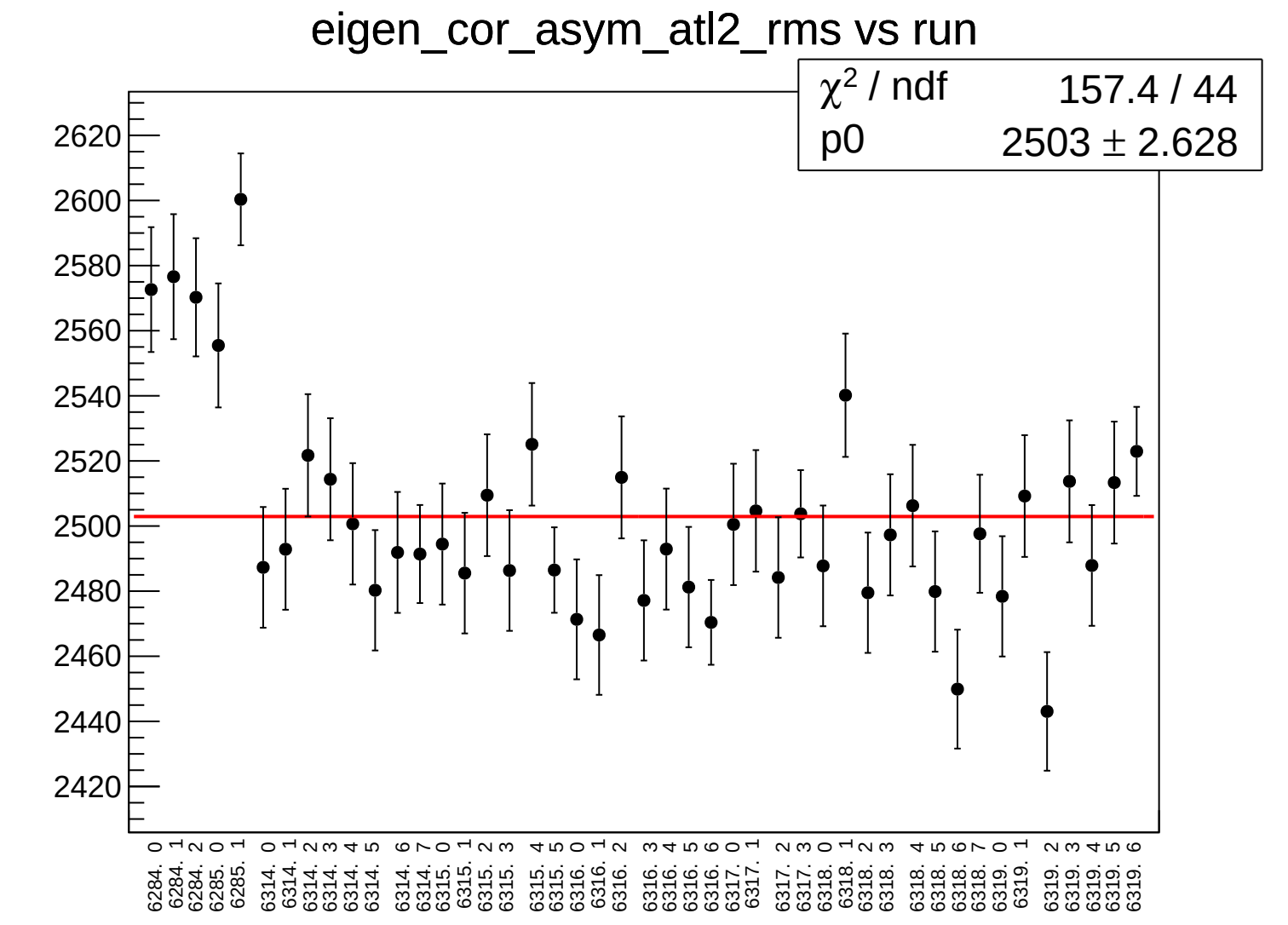
eigen_cor_asym_atl2_rms vs run
χ² / ndf 157.4 / 44
p0 2503 ± 2.628
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 2
6314. 3
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6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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6319. 2
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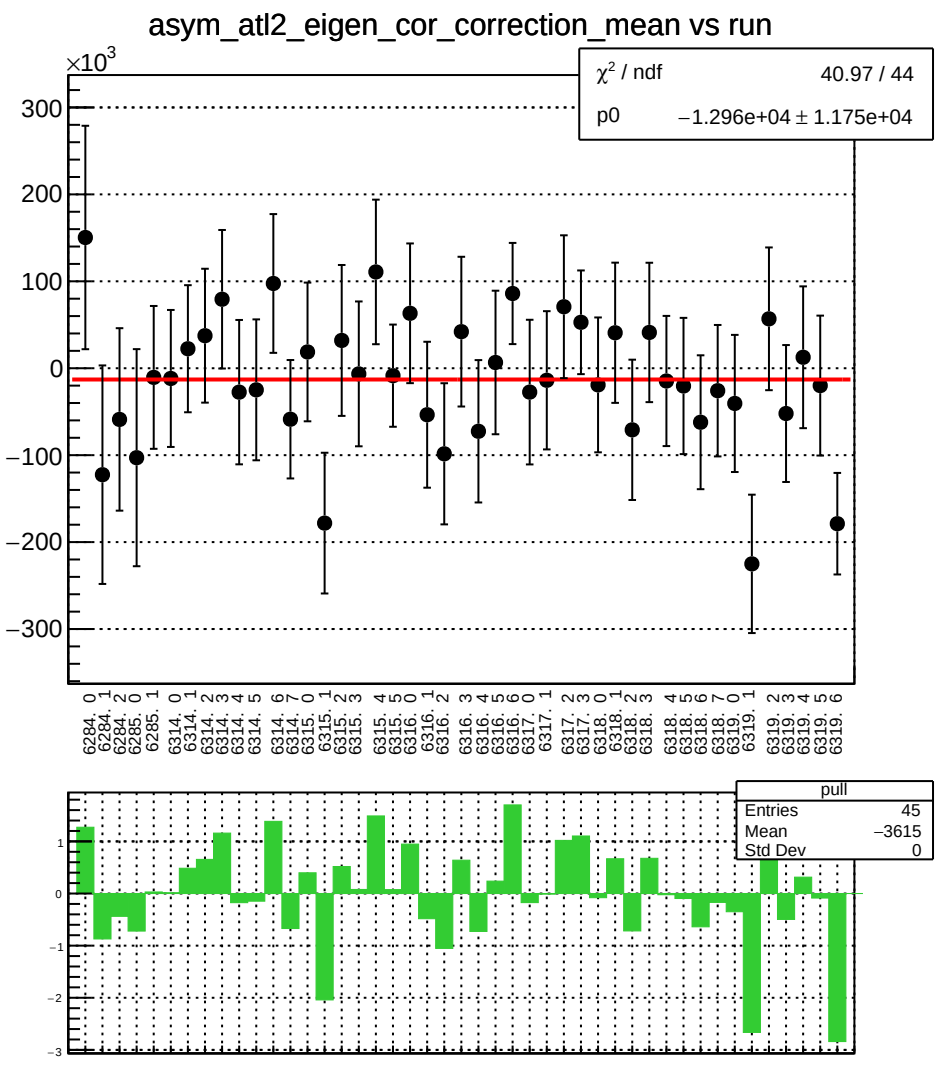
6319. 5
6319. 6


asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −1.296e+04 ± 1.175e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6318. 1
6318. 2
6318. 3
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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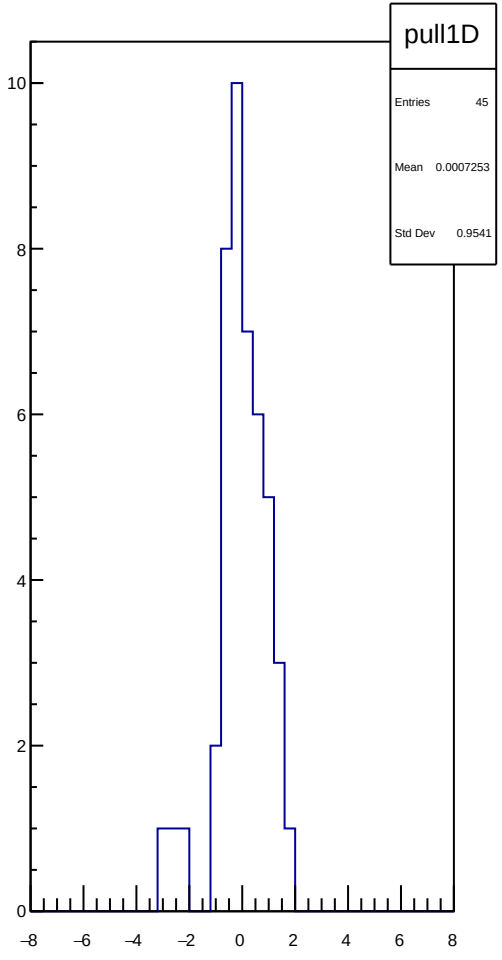
6319. 5
6319. 6
pull
Entries 45
Mean −3615
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0007253
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
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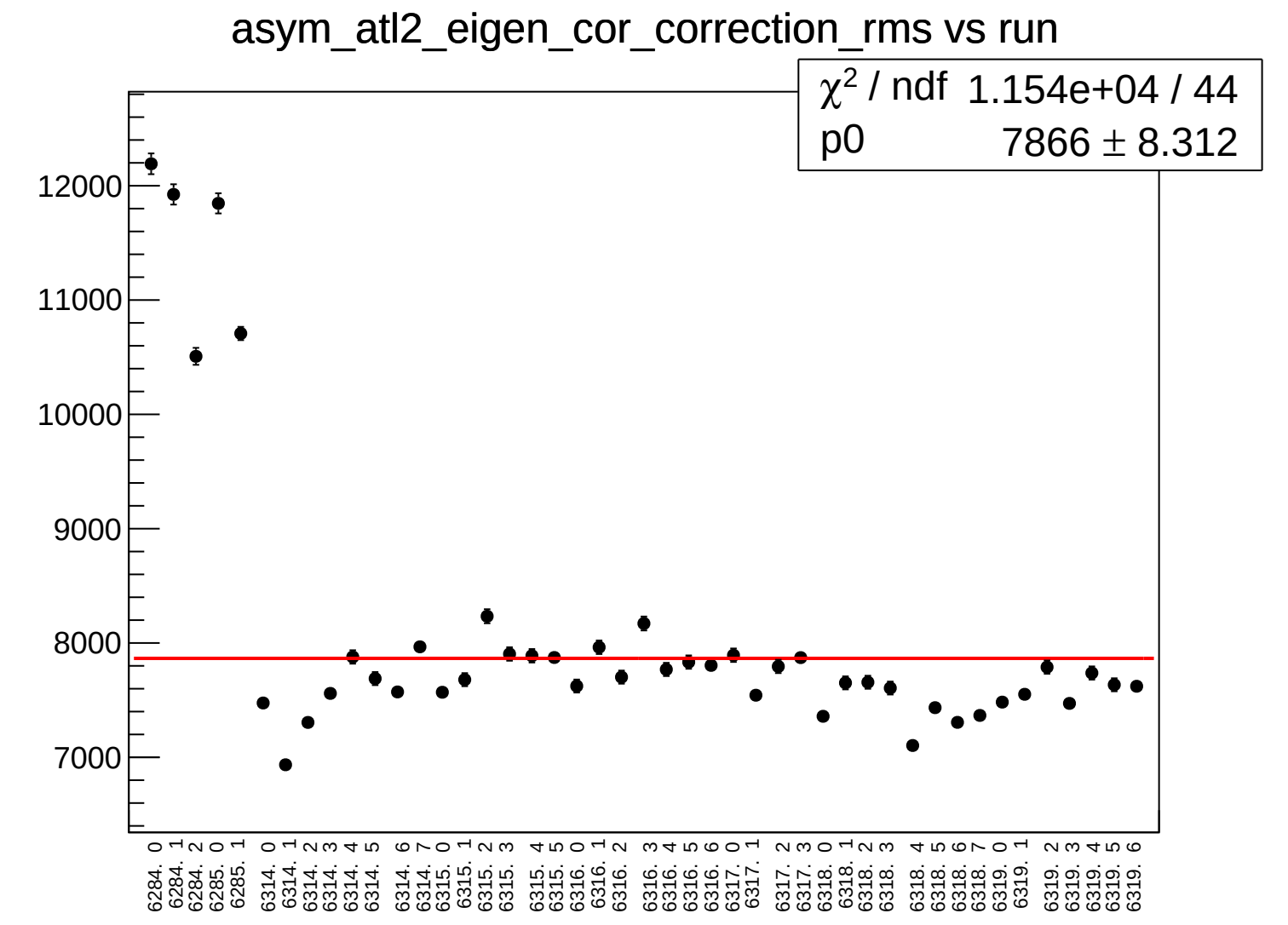
2
4
6
8


asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.154e+04 / 44
p0 7866 ± 8.312
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 2
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6318. 0
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6318. 2
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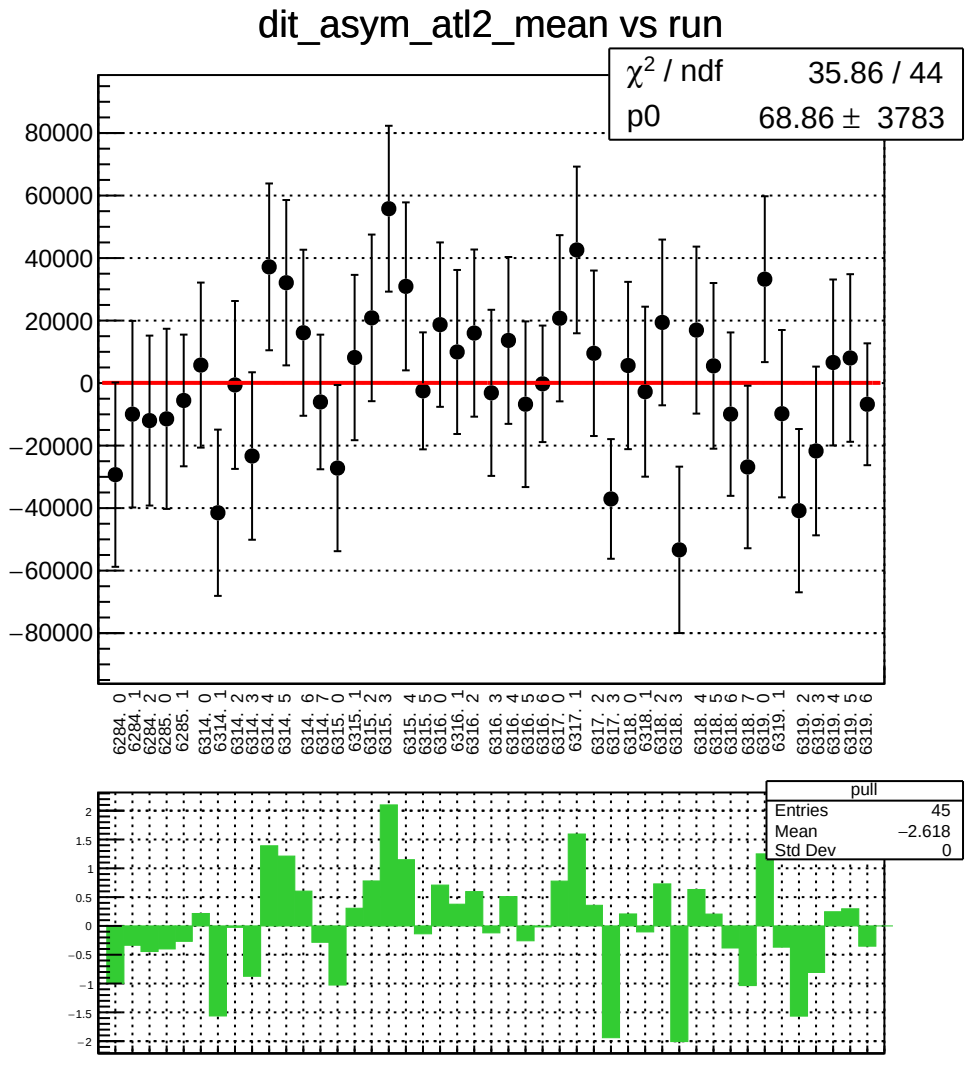
6319. 6


dit_asym_atl2_mean vs run
χ² / ndf 35.86 / 44
p0 68.86 ± 3783
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
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6285. 1
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6317. 1
6317. 2
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6318. 1
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2.618
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02093
Std Dev 0.8924
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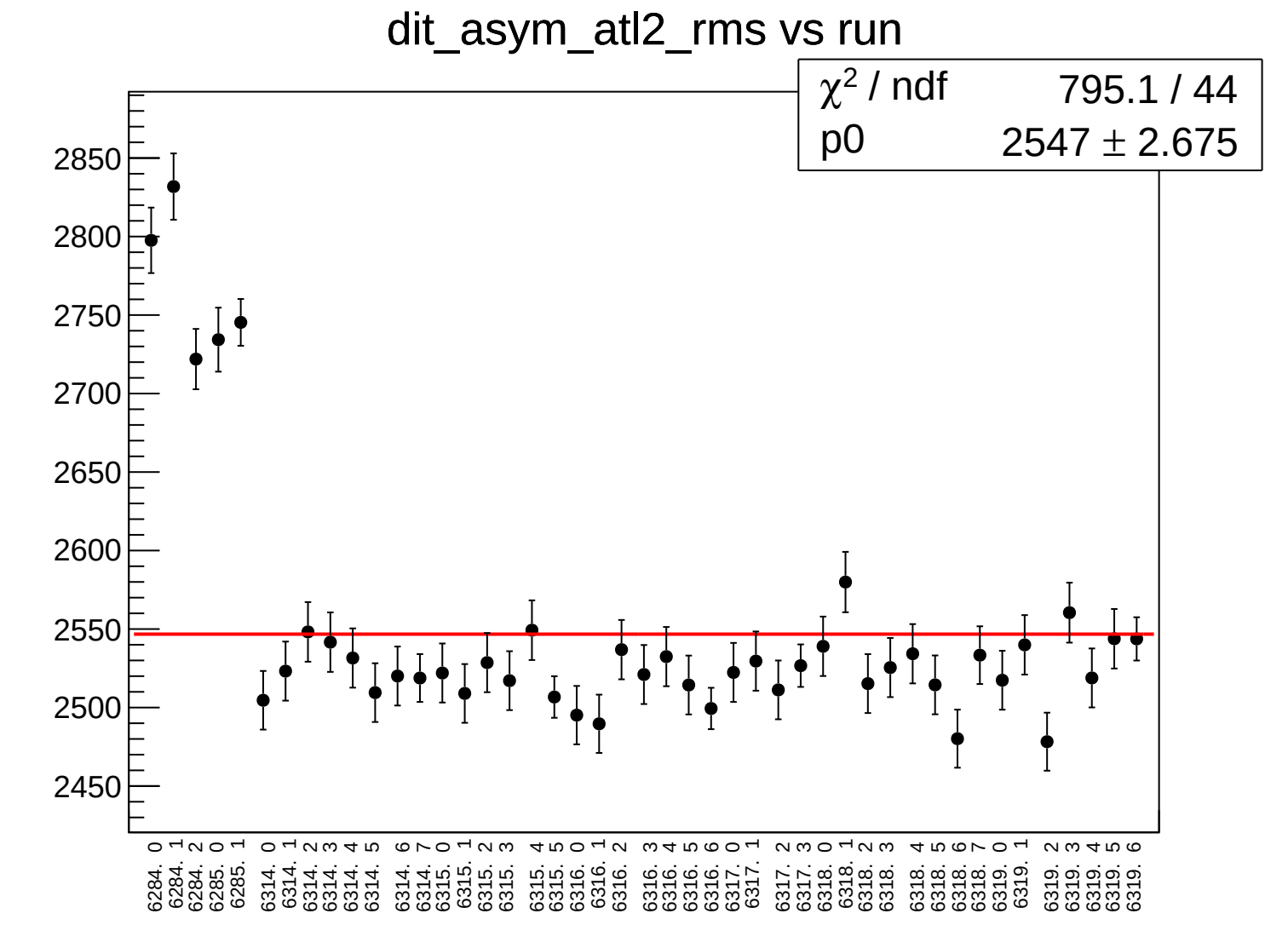
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl2_rms vs run
χ² / ndf 795.1 / 44
p0 2547 ± 2.675
2850
2800
2750
2700
2650
2600
2550
2500
2450
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6284. 1
6284. 2
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6285. 1
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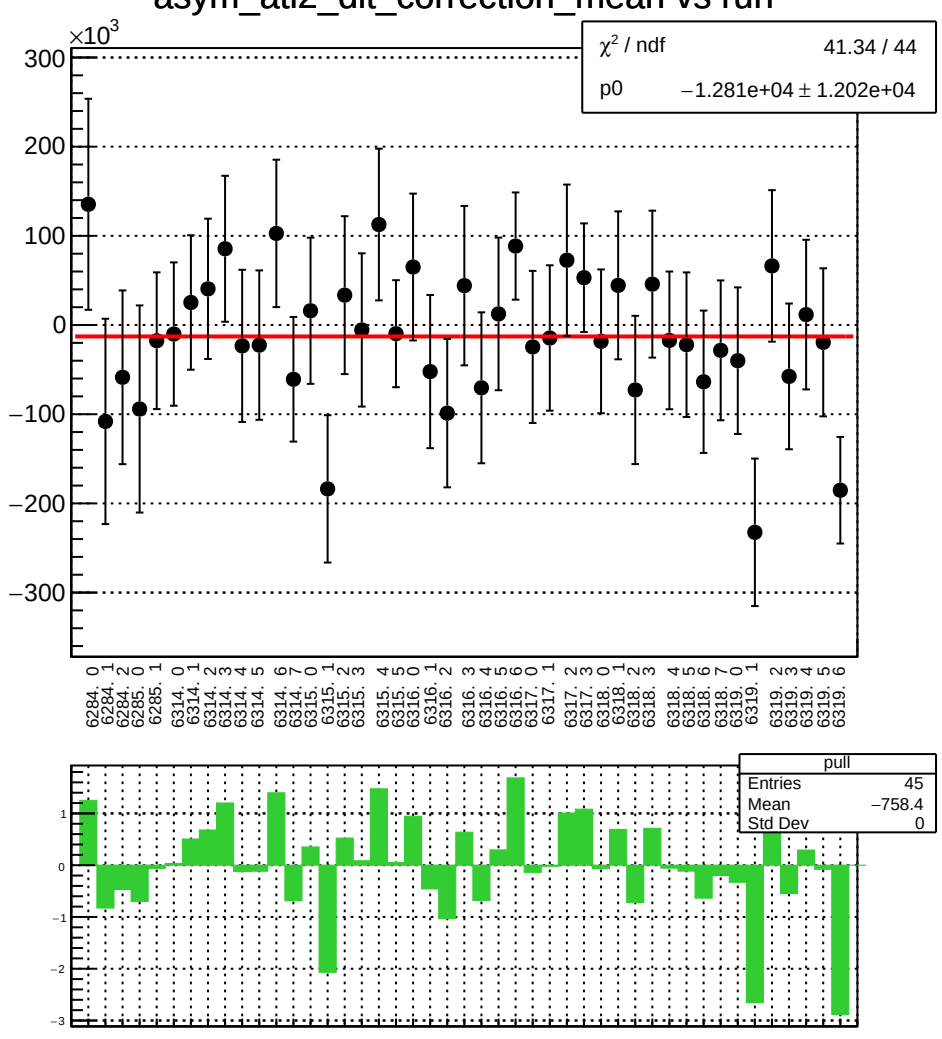
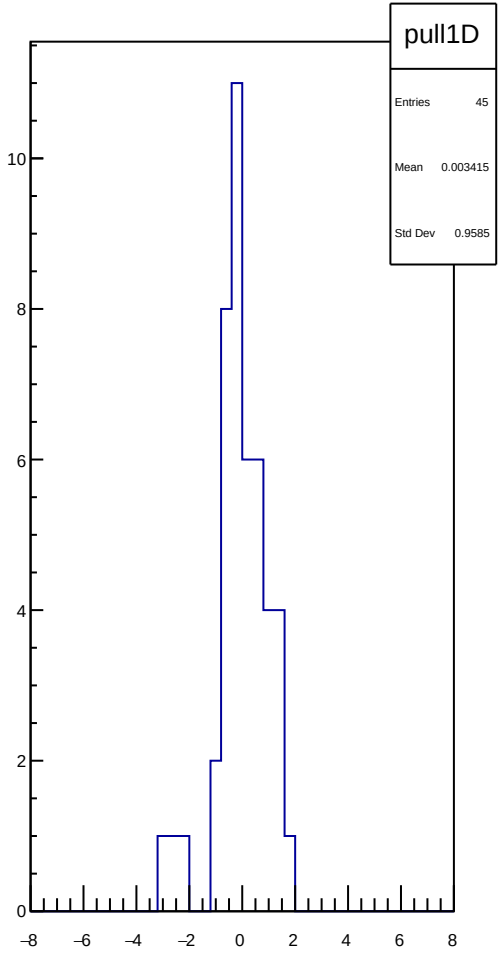
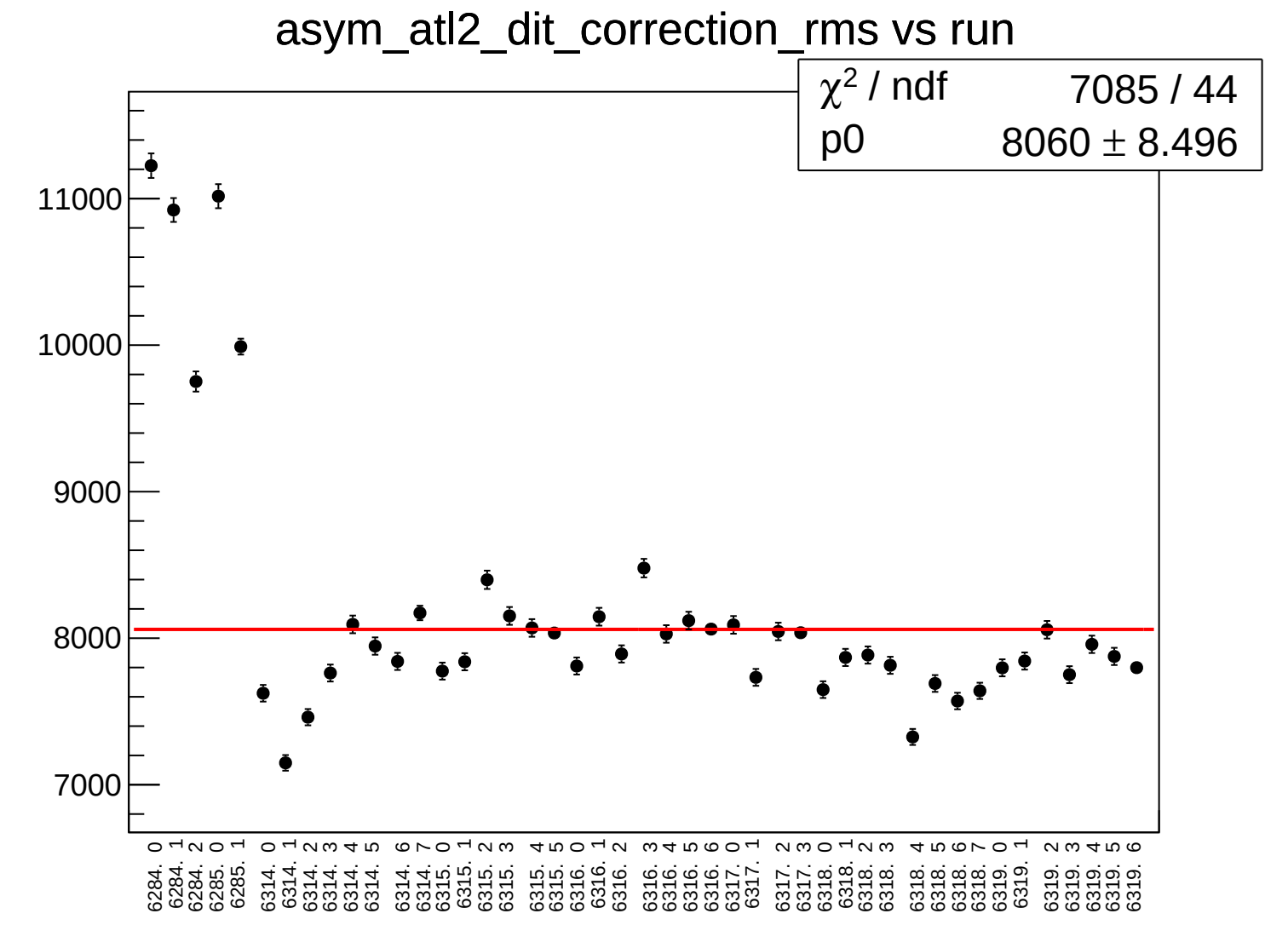
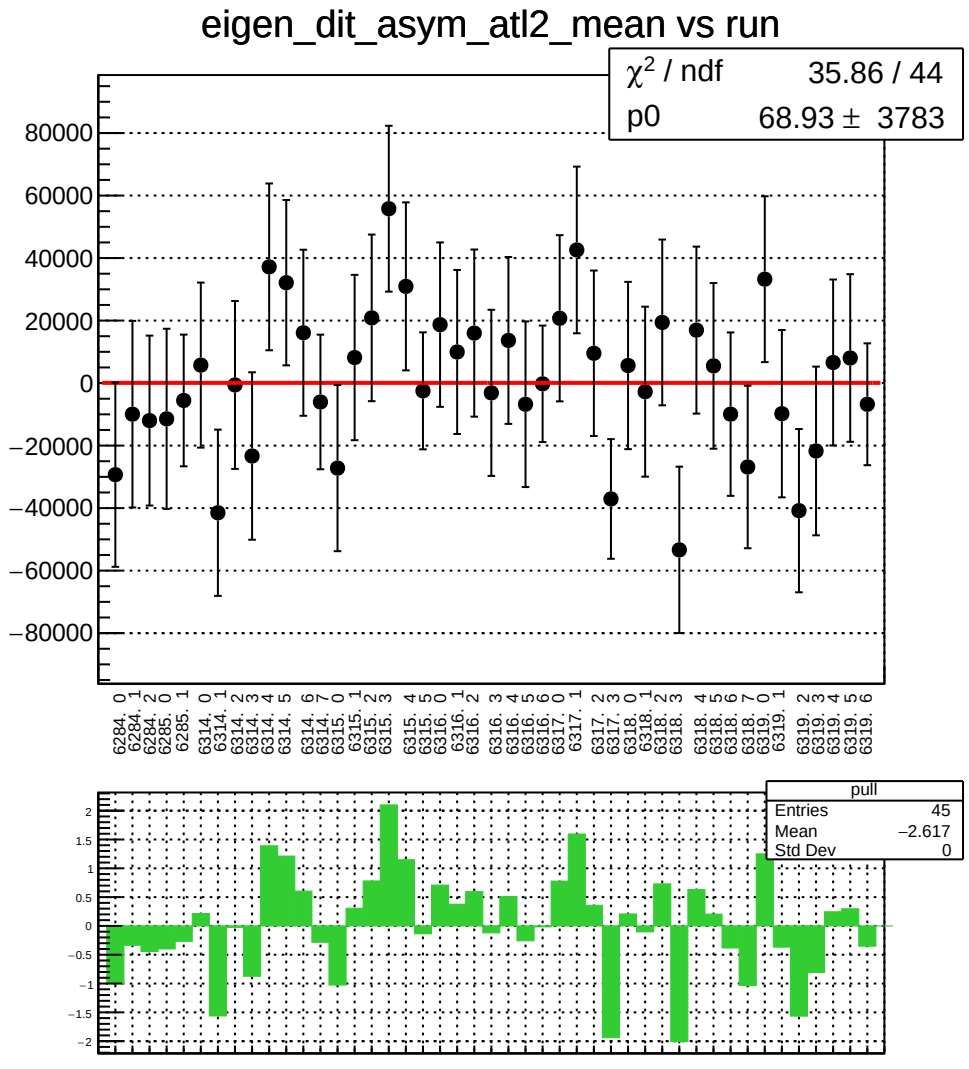
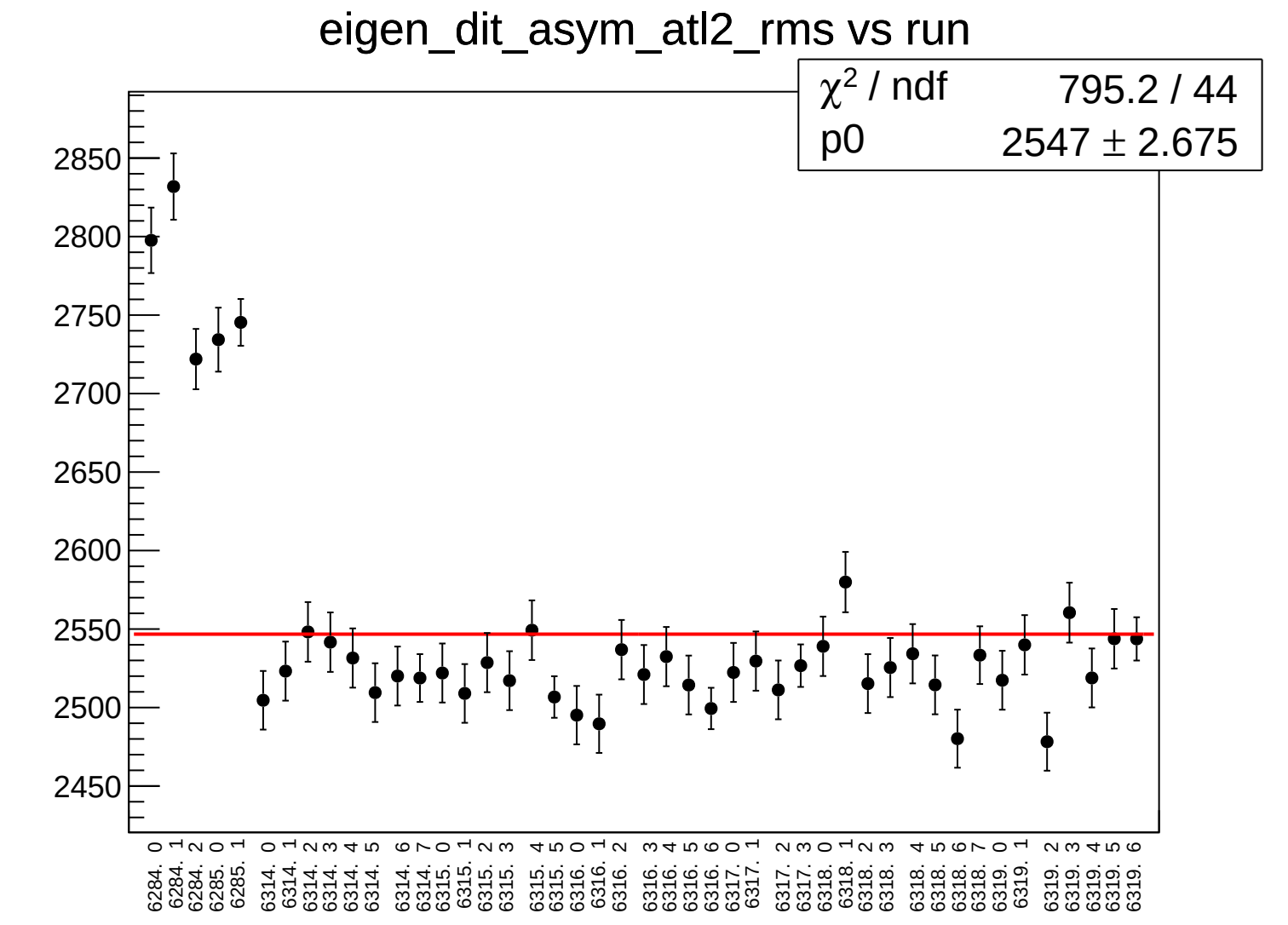
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

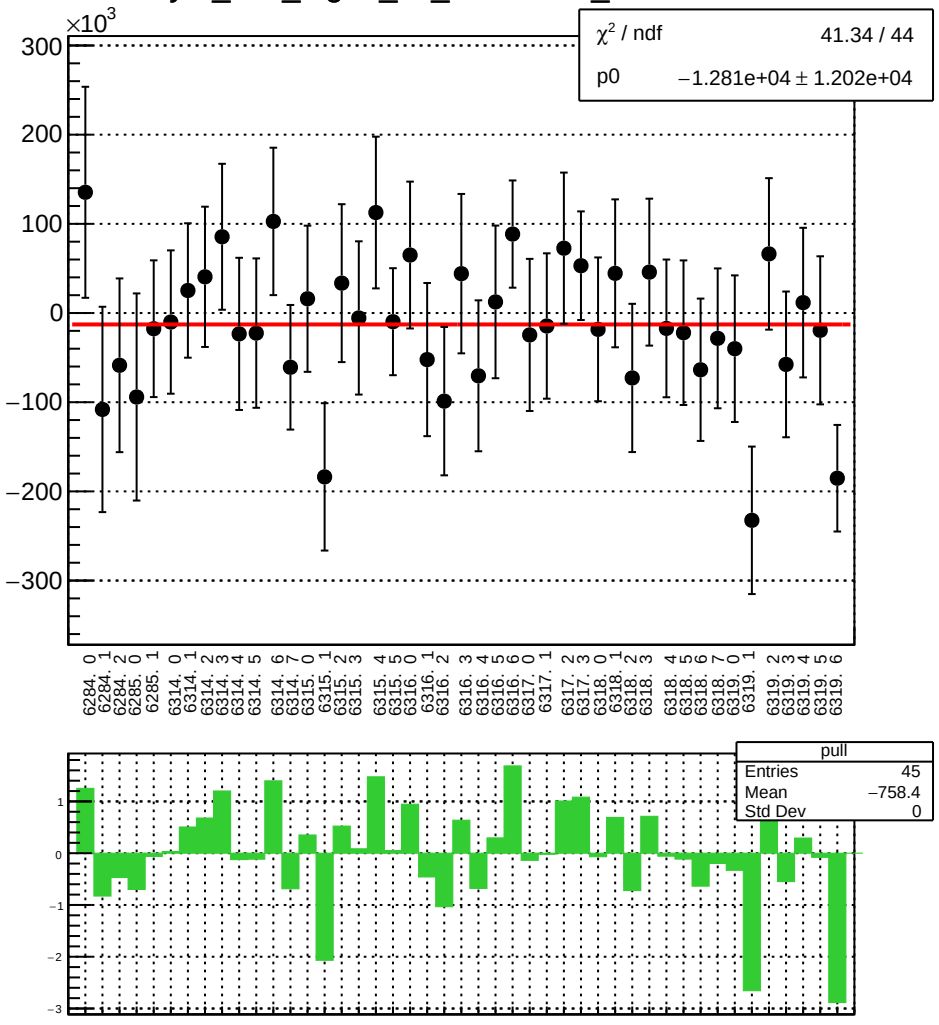

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 41.34 / 44
p0 −1.281e+04 ± 1.202e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −758.4
Std Dev 0
1
0
−1
−2
−3

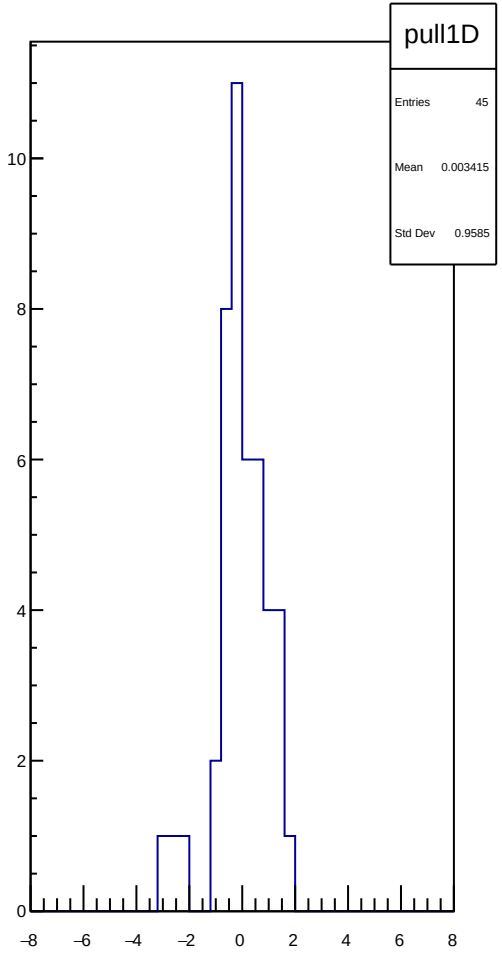

pull1D
Entries 45
Mean 0.003415
Std Dev 0.9585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

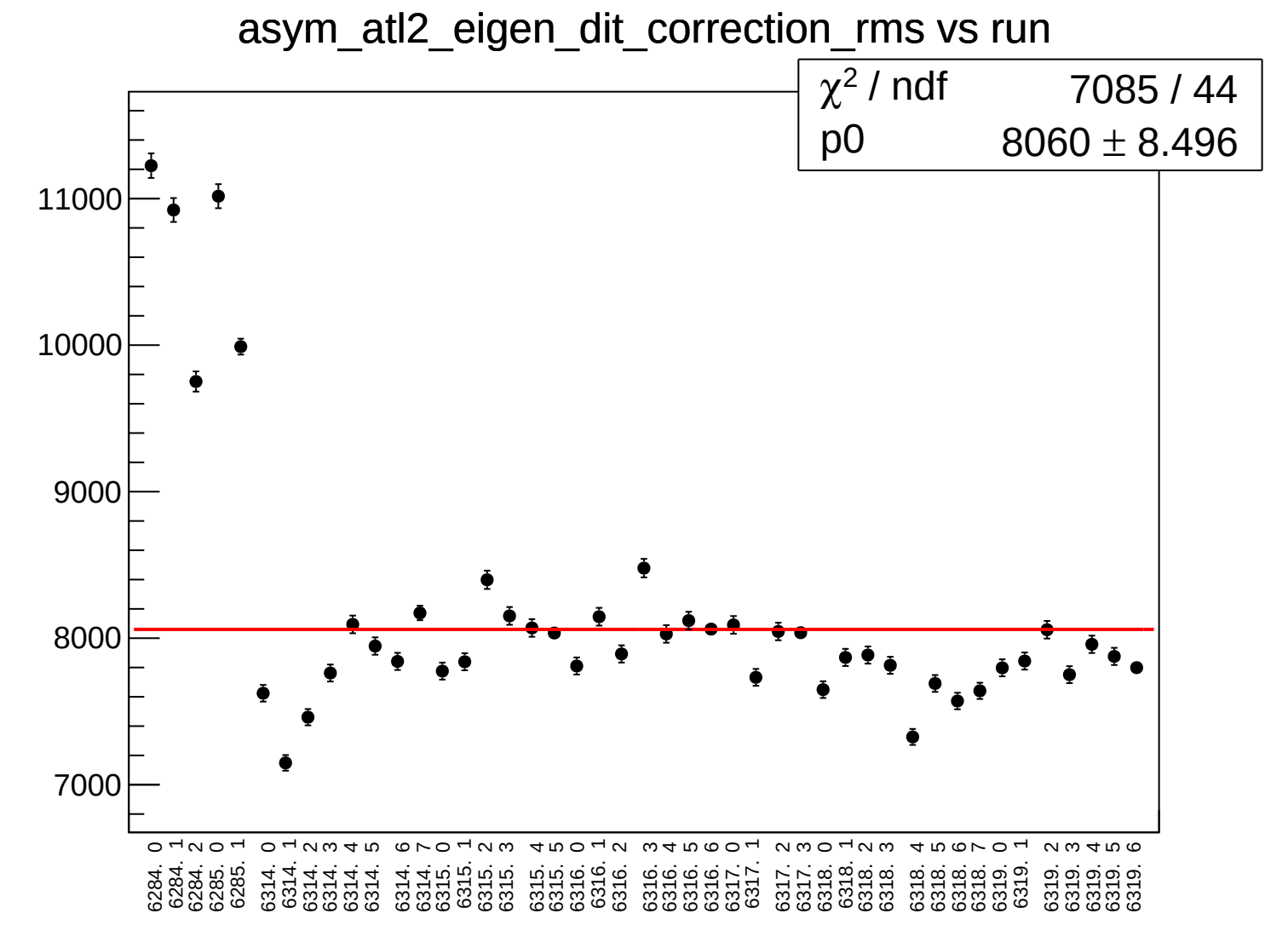

asym_atl2_dit_correction_rms vs run
χ² / ndf 7085 / 44
p0 8060 ± 8.496
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

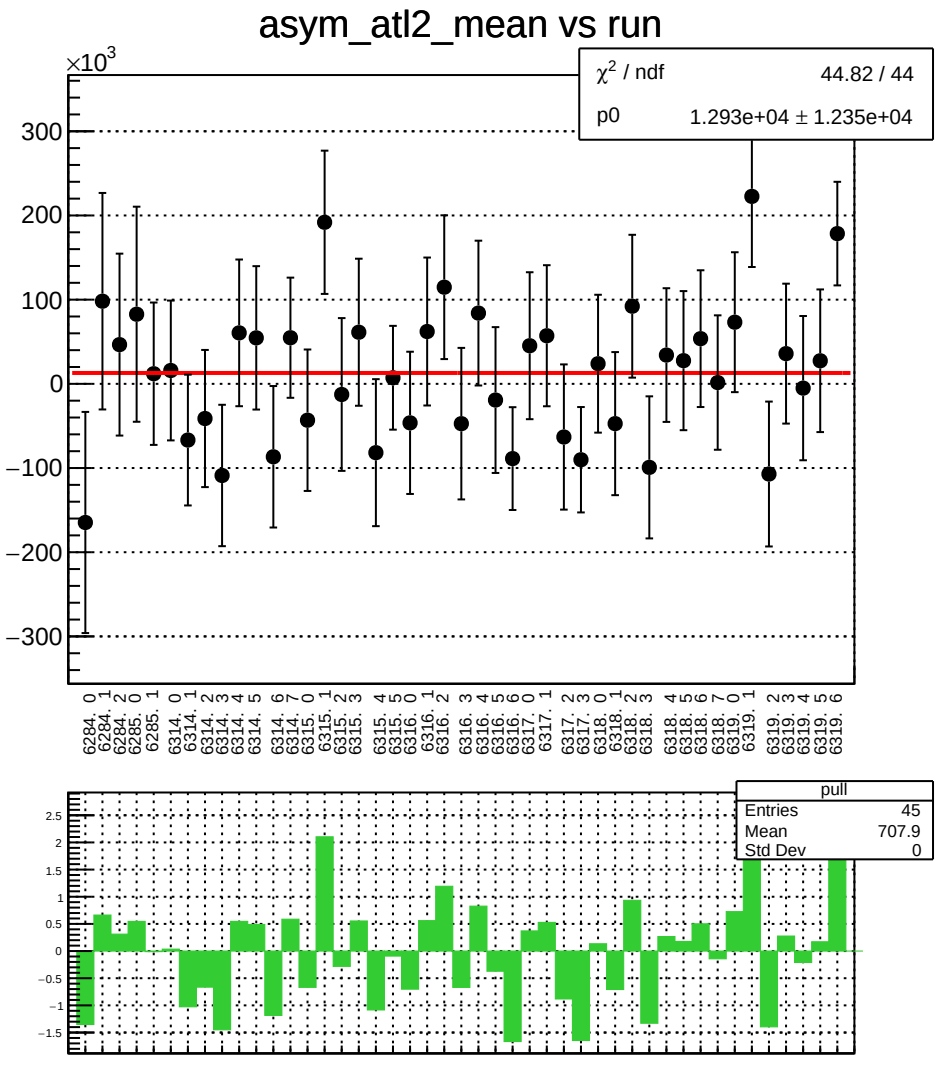

eigen_dit_asym_atl2_mean vs run
χ² / ndf 35.86 / 44
p0 68.93 ± 3783
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2.617
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02093
Std Dev 0.8924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

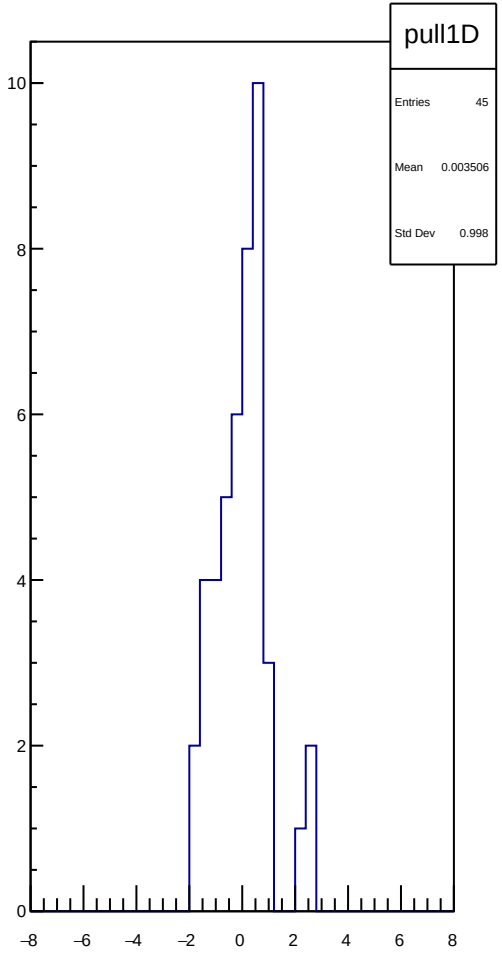

eigen_dit_asym_atl2_rms vs run
χ² / ndf 795.2 / 44
p0 2547 ± 2.675
2850
2800
2750
2700
2650
2600
2550
2500
2450
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

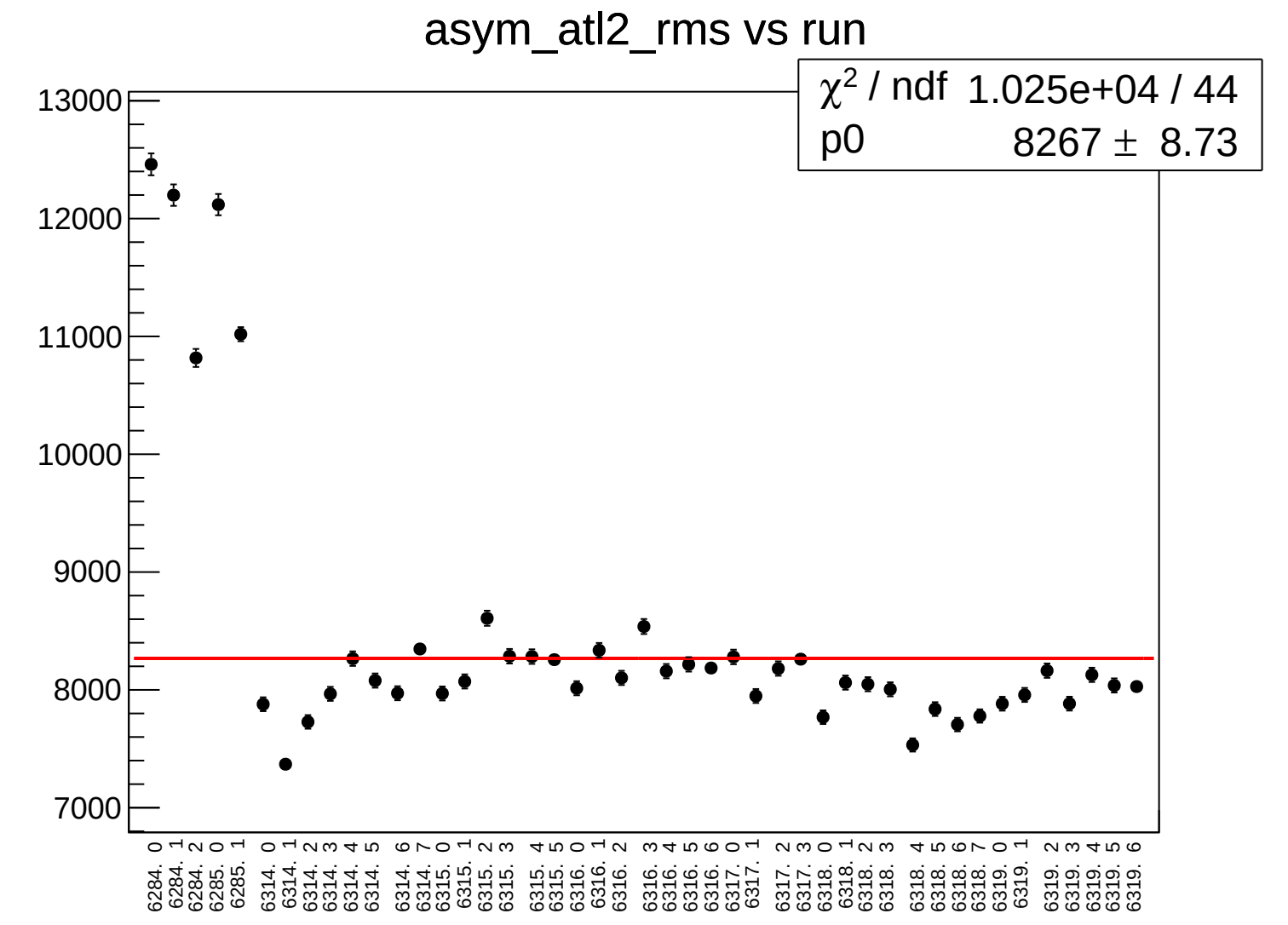

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.34 / 44
p0 −1.281e+04 ± 1.202e+04
pull
Entries 45
Mean −758.4
Std Dev 0

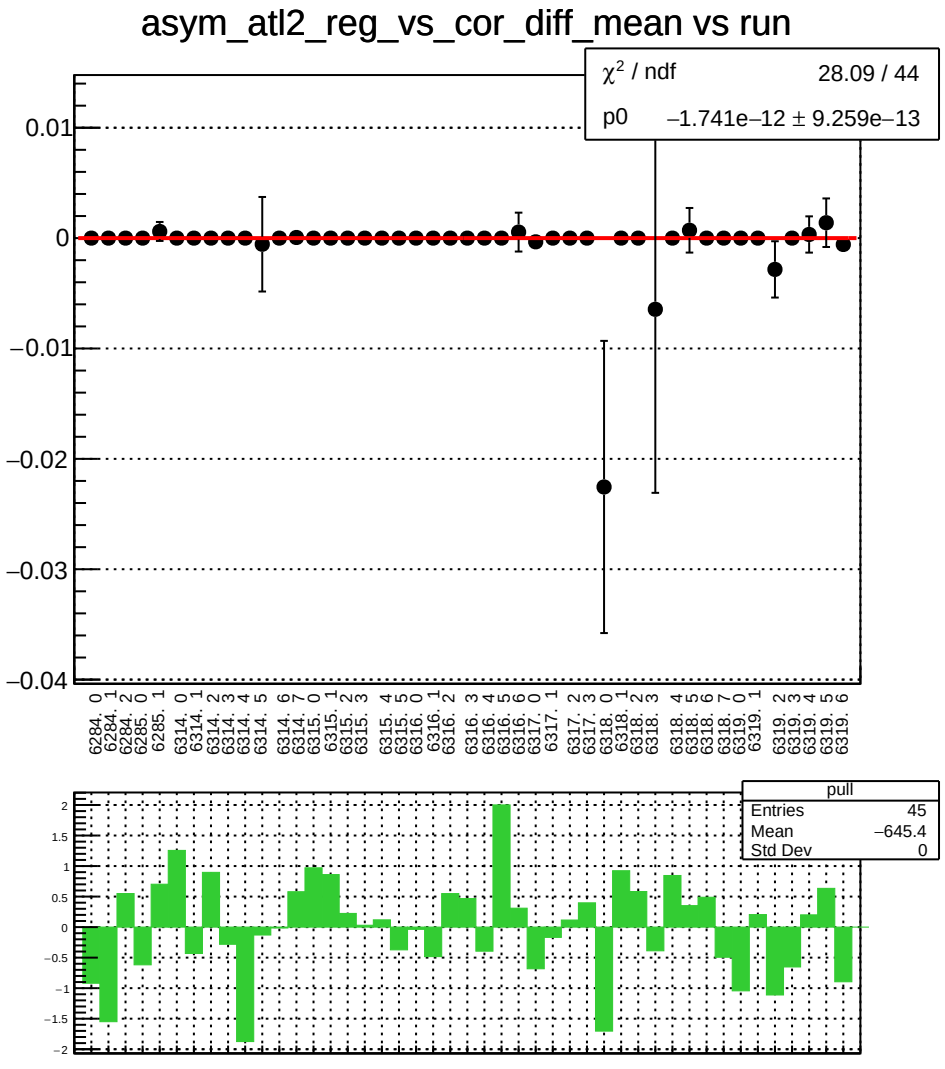

pull1D
Entries 45
Mean 0.003415
Std Dev 0.9585

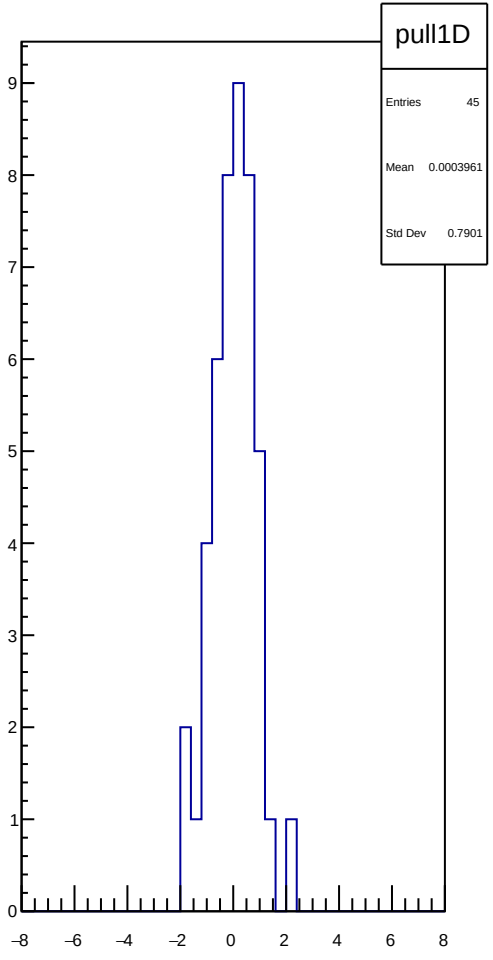

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 7085 / 44
p0 8060 ± 8.496
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

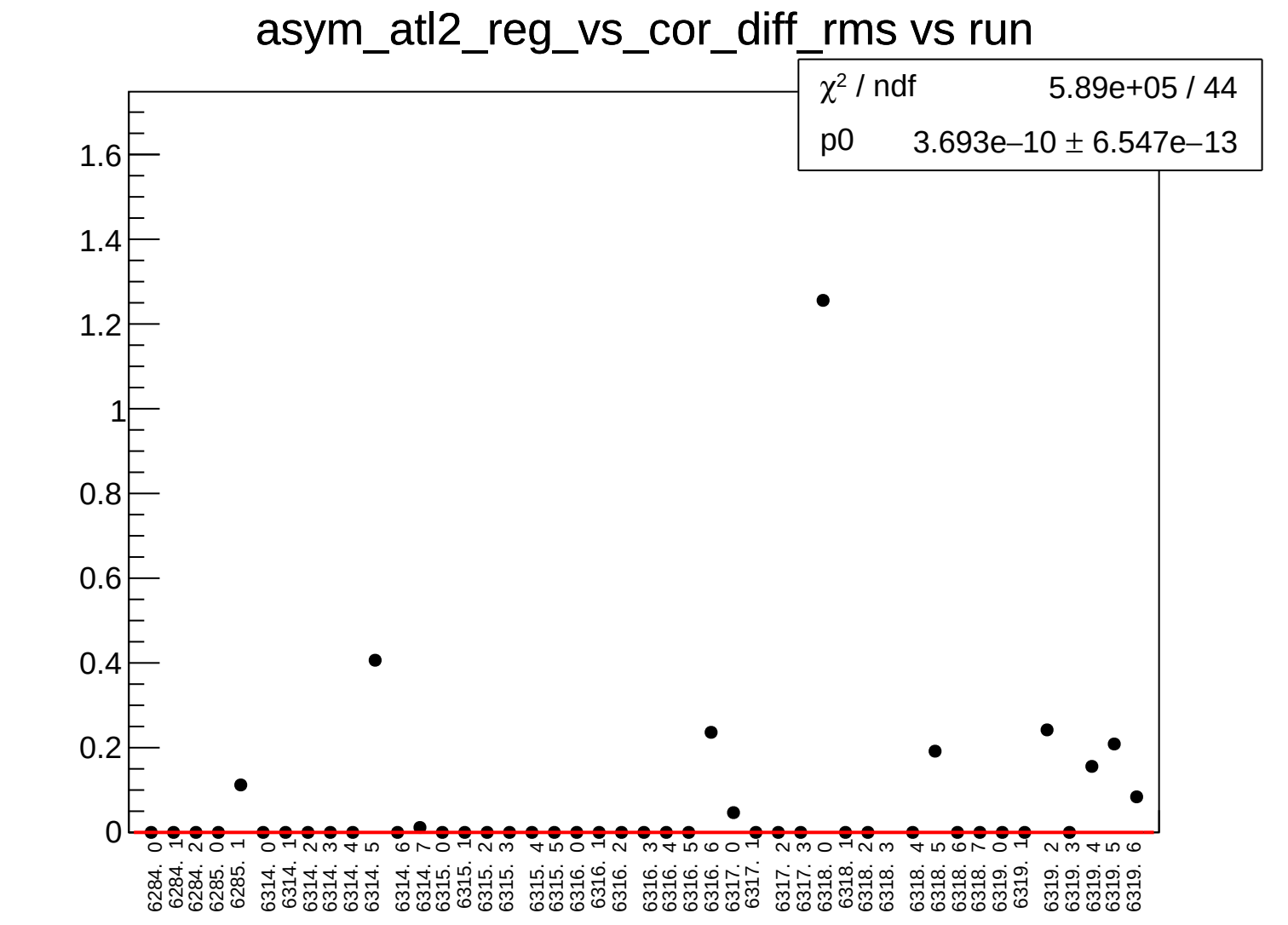

asym_atl2_mean vs run
×10^3
χ² / ndf 44.82 / 44
p0 1.293e+04 ± 1.235e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 707.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.003506
Std Dev 0.998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_rms vs run
χ² / ndf 1.025e+04 / 44
p0 8267 ± 8.73
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 28.09 / 44
p0 −1.741e−12 ± 9.259e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −645.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0003961
Std Dev 0.7901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.89e+05 / 44
p0 3.693e−10 ± 6.547e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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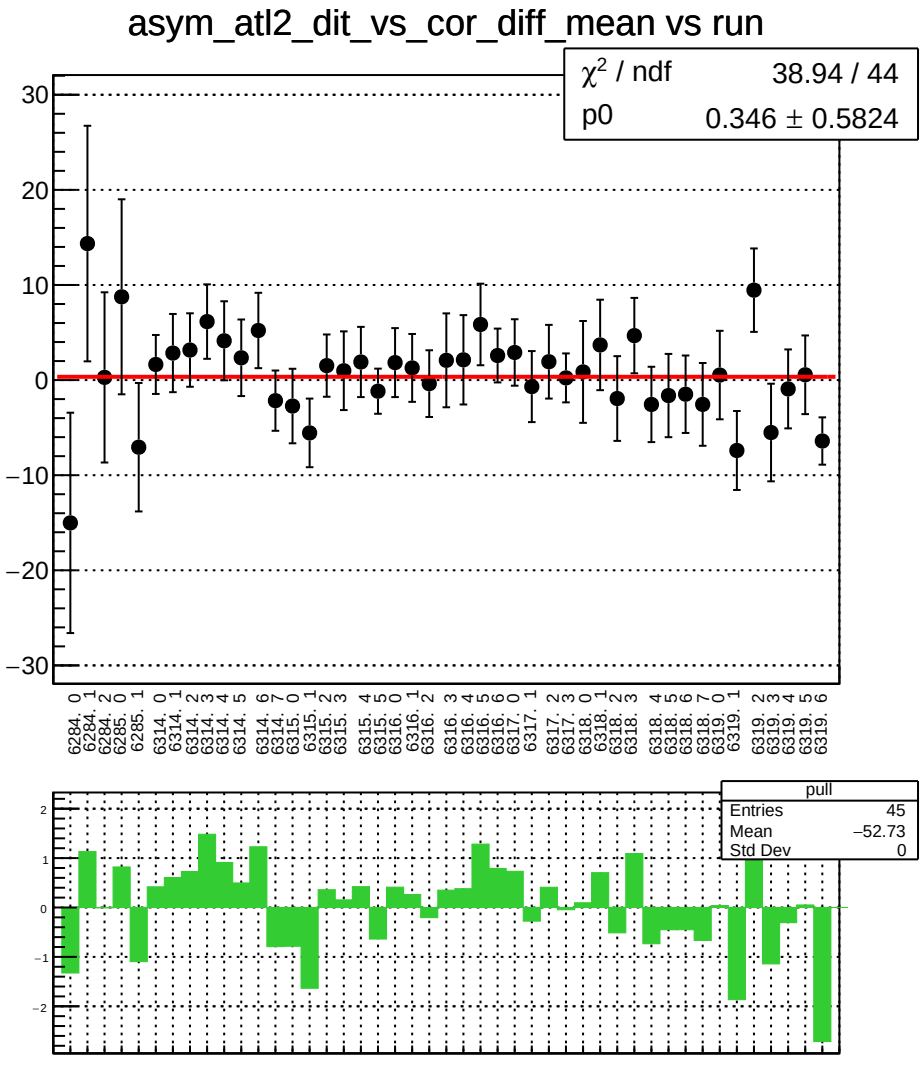
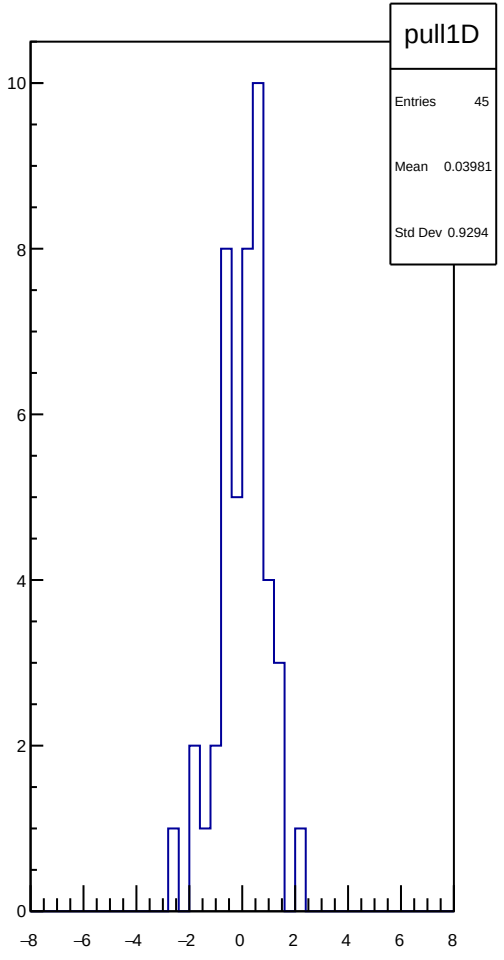
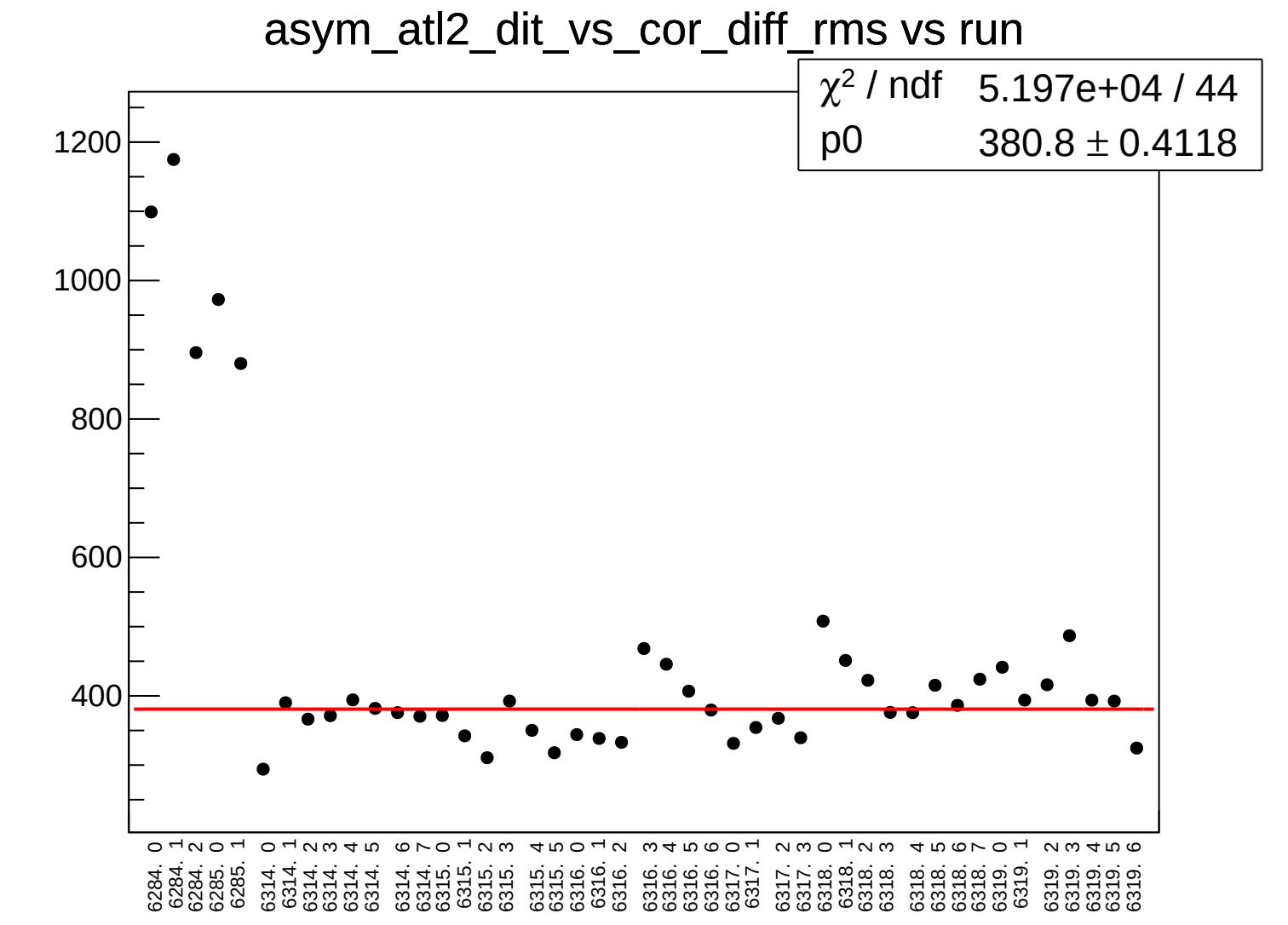
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 38.94 / 44
p0 0.346 ± 0.5824
30
20
10
0
−10
−20
−30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.73
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.03981
Std Dev 0.9294
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 5.197e+04 / 44
p0 380.8 ± 0.4118
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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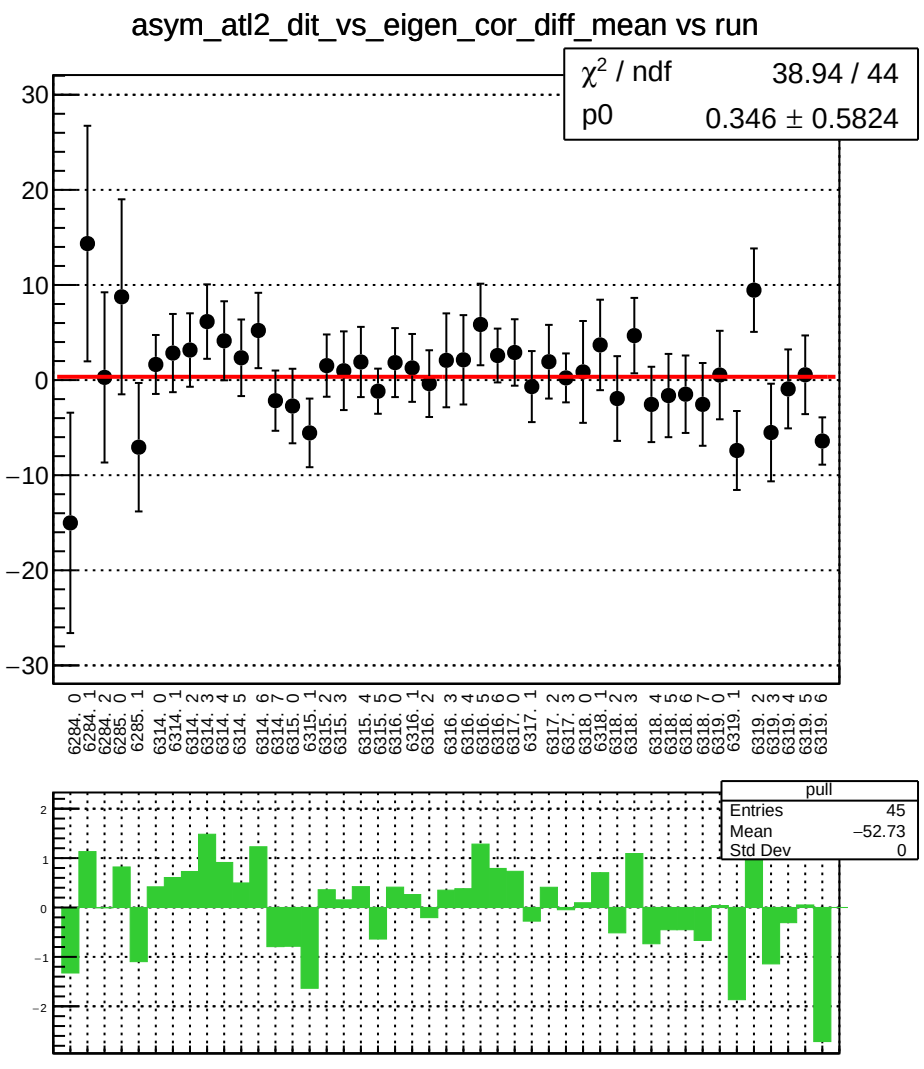
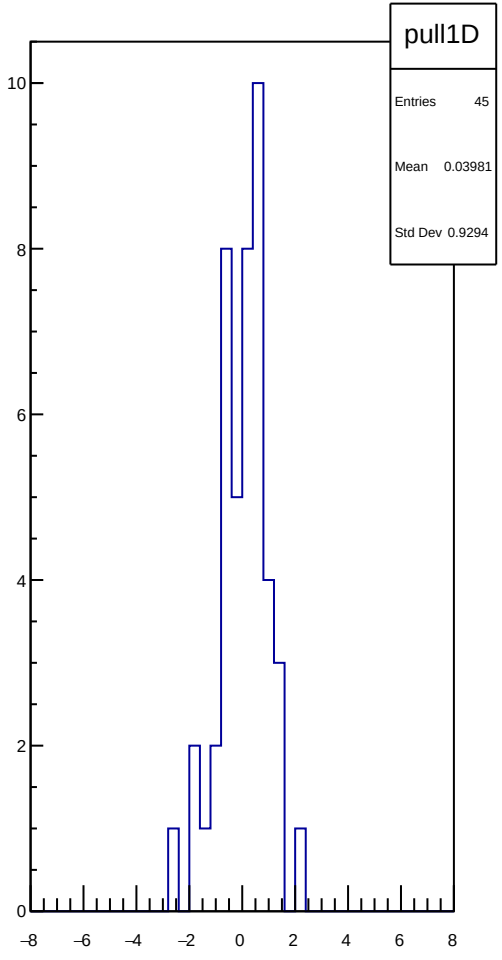
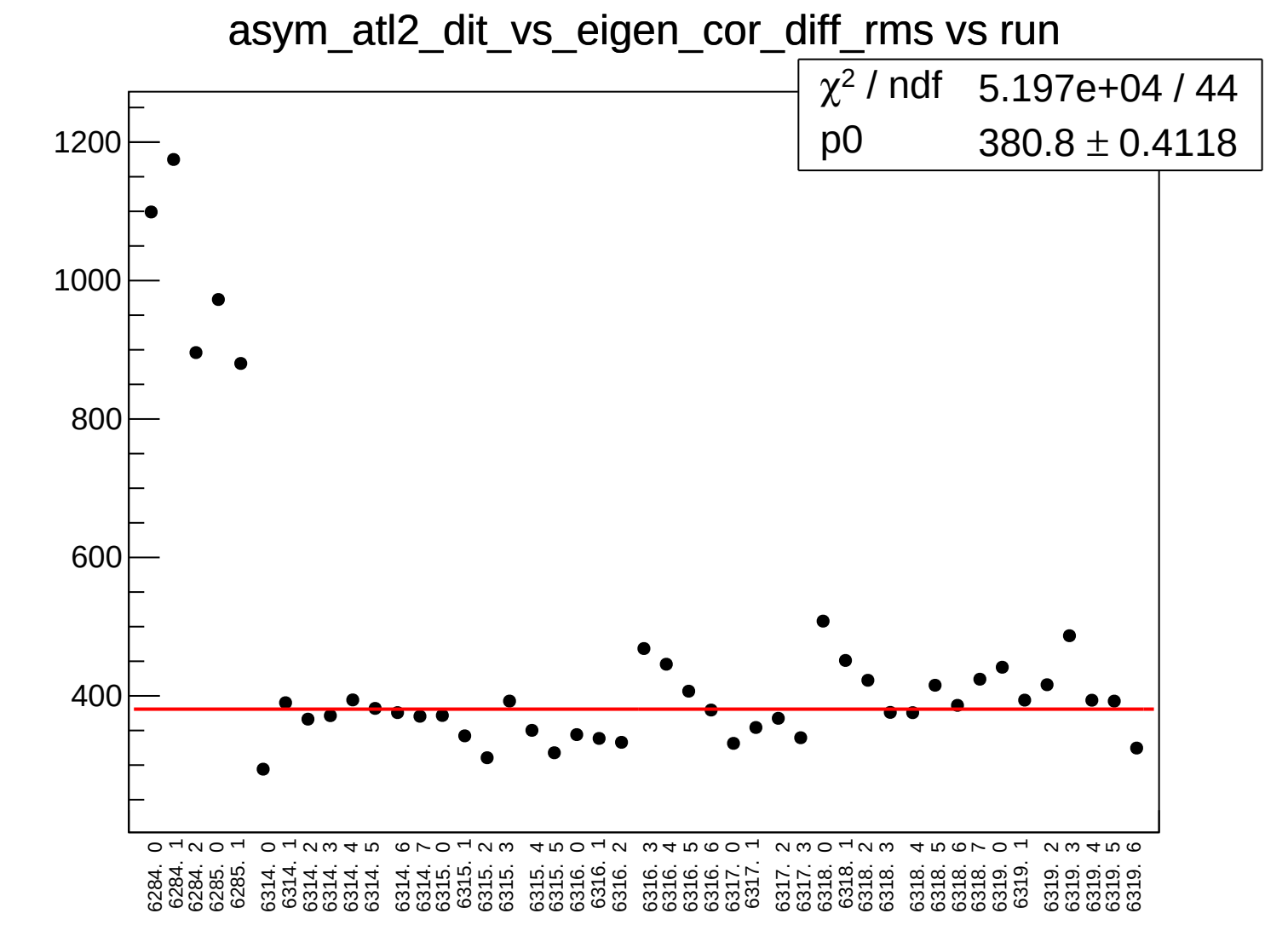
6319. 5
6319. 6


asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.94 / 44
p0 0.346 ± 0.5824
pull
Entries 45
Mean −52.73
Std Dev 0


pull1D
Entries 45
Mean 0.03981
Std Dev 0.9294


asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.197e+04 / 44
p0 380.8 ± 0.4118
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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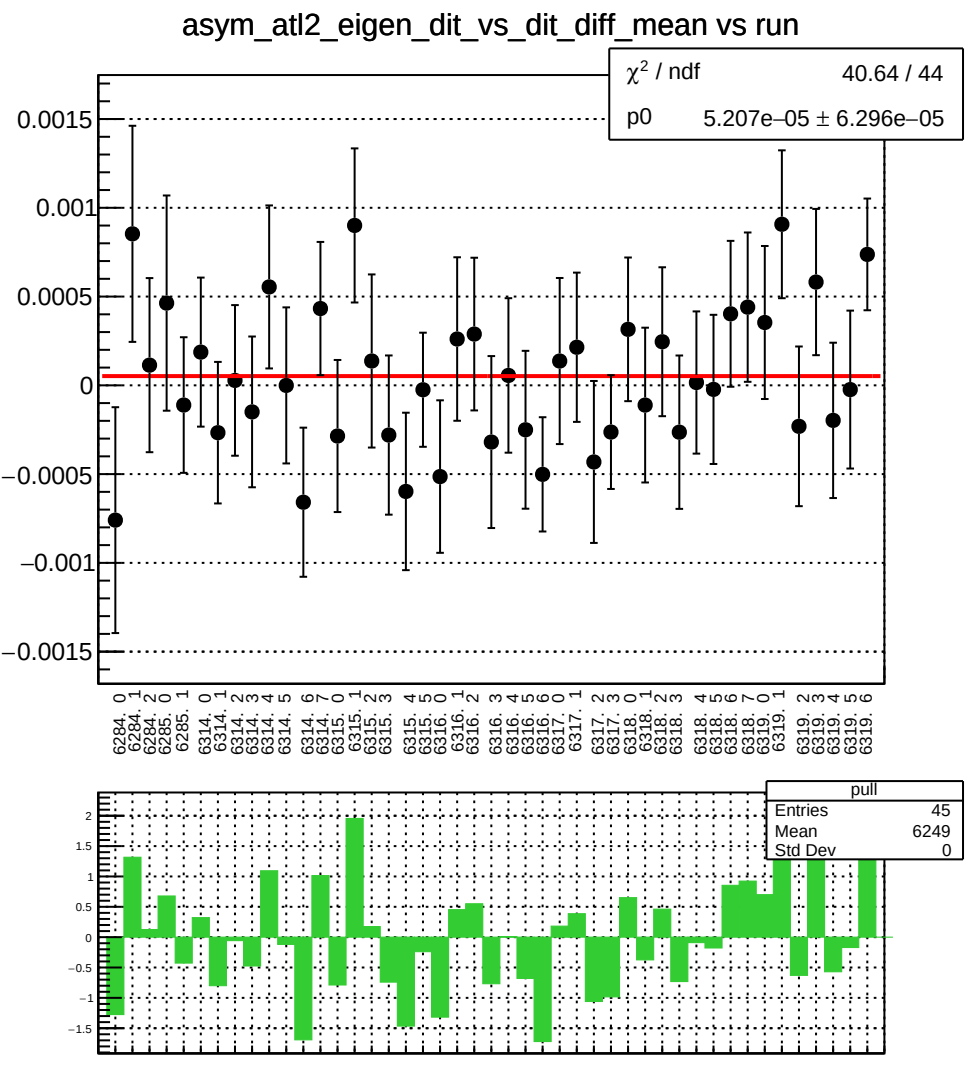
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.64 / 44
p0 5.207e−05 ± 6.296e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 3
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6315. 5
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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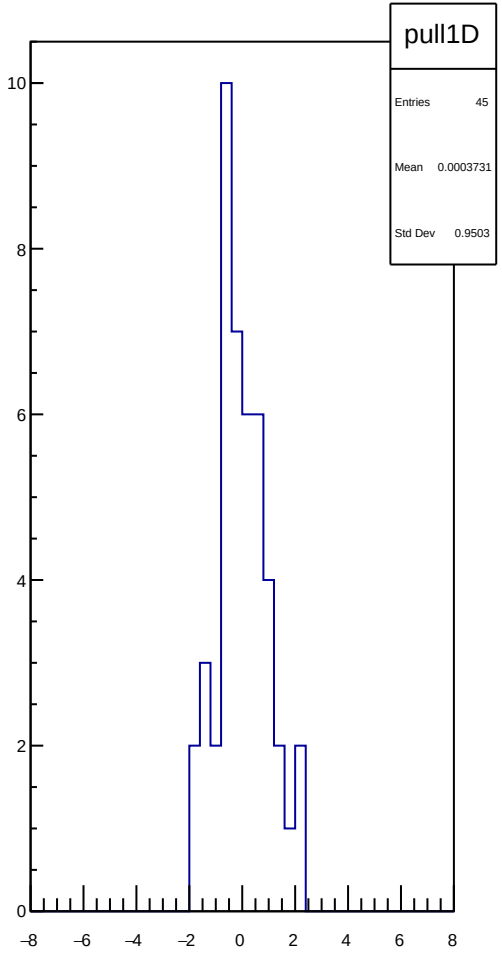
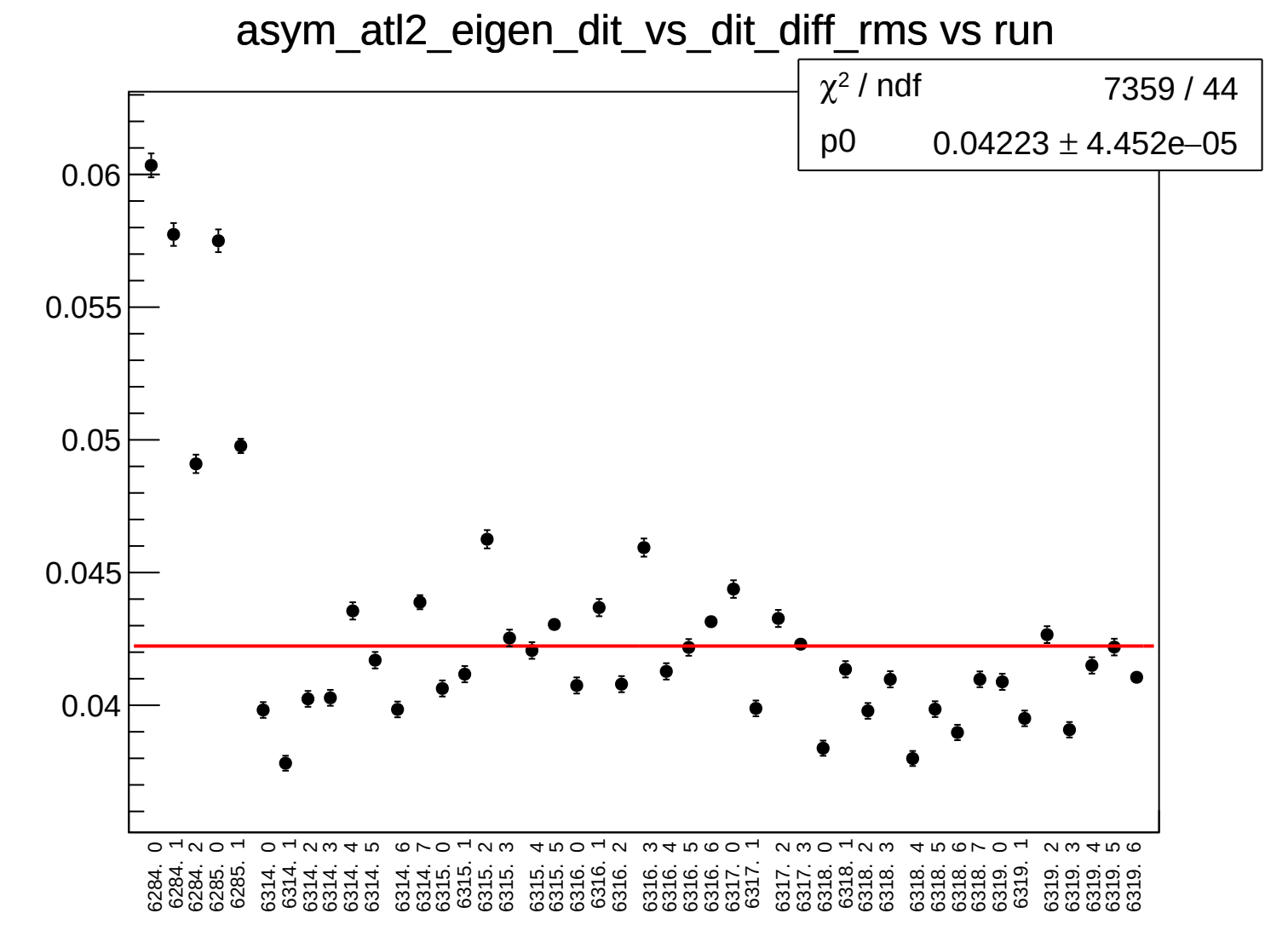
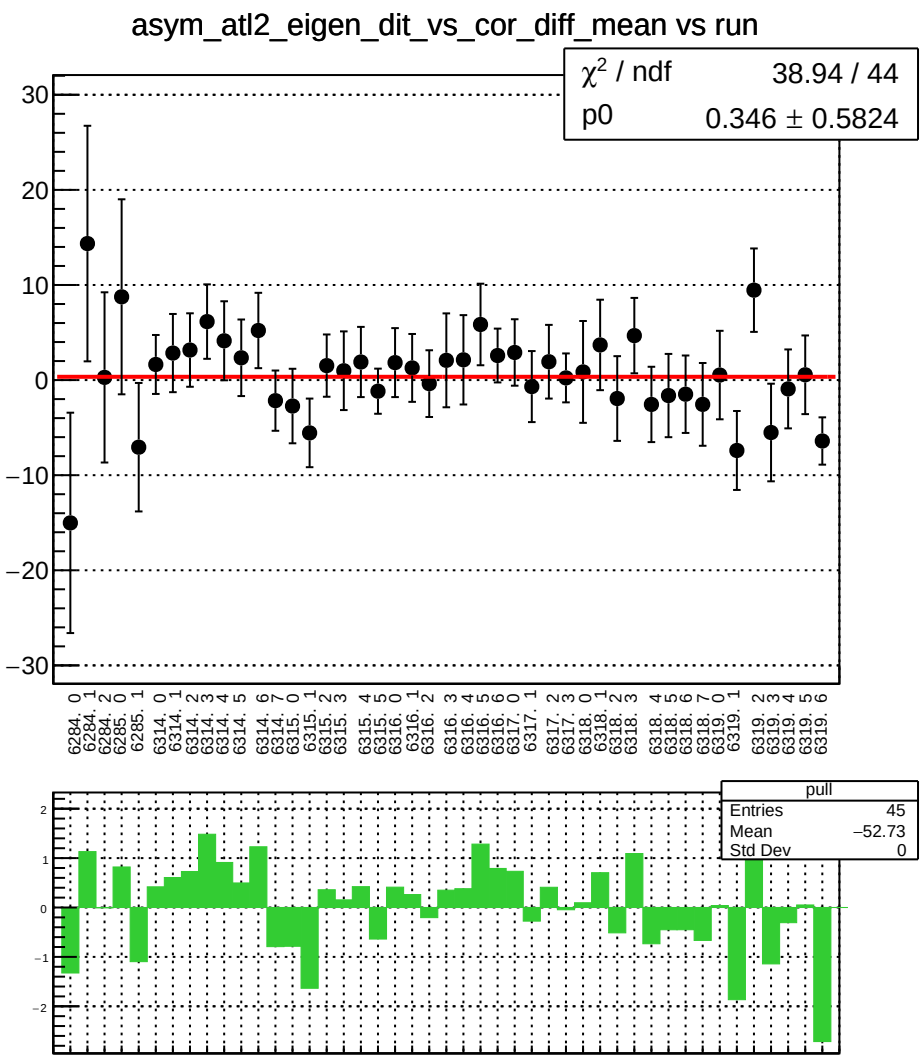
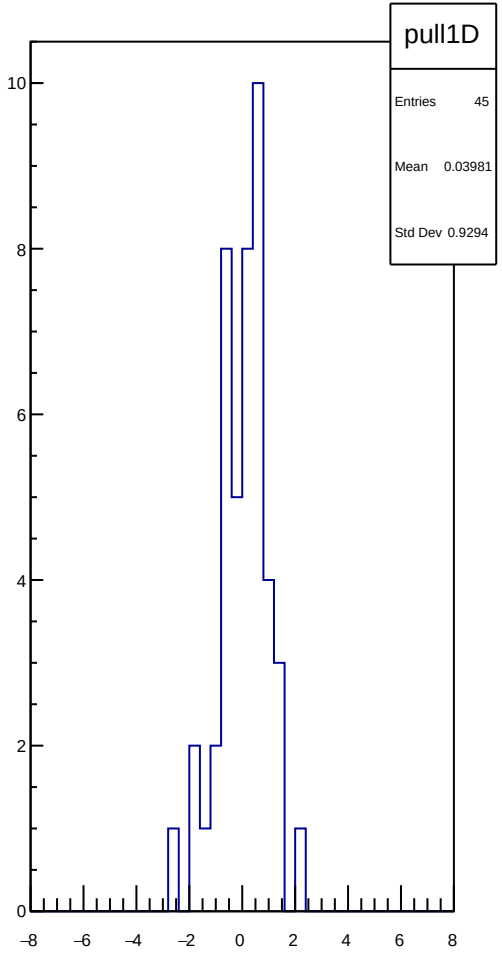
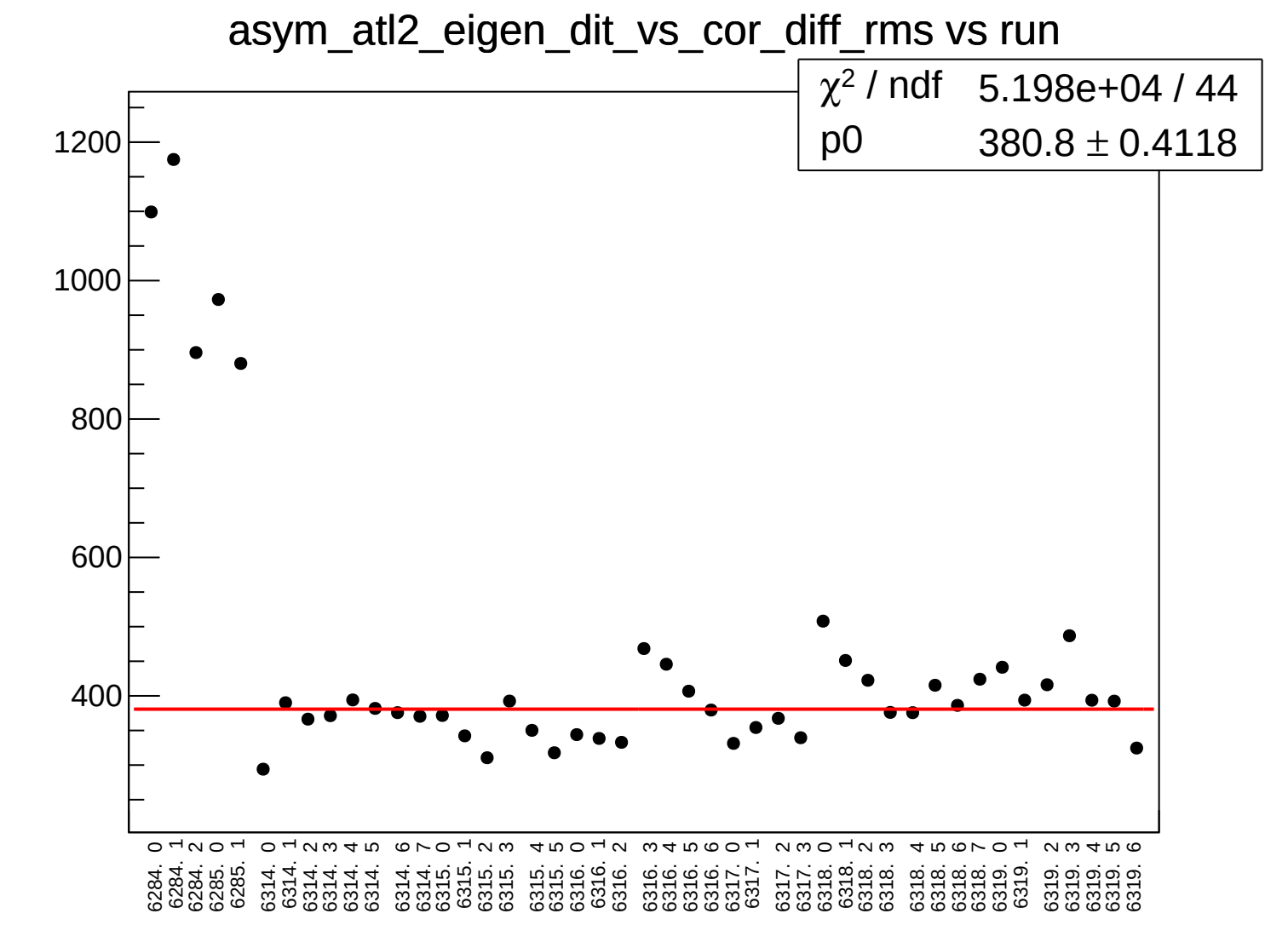
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6249
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

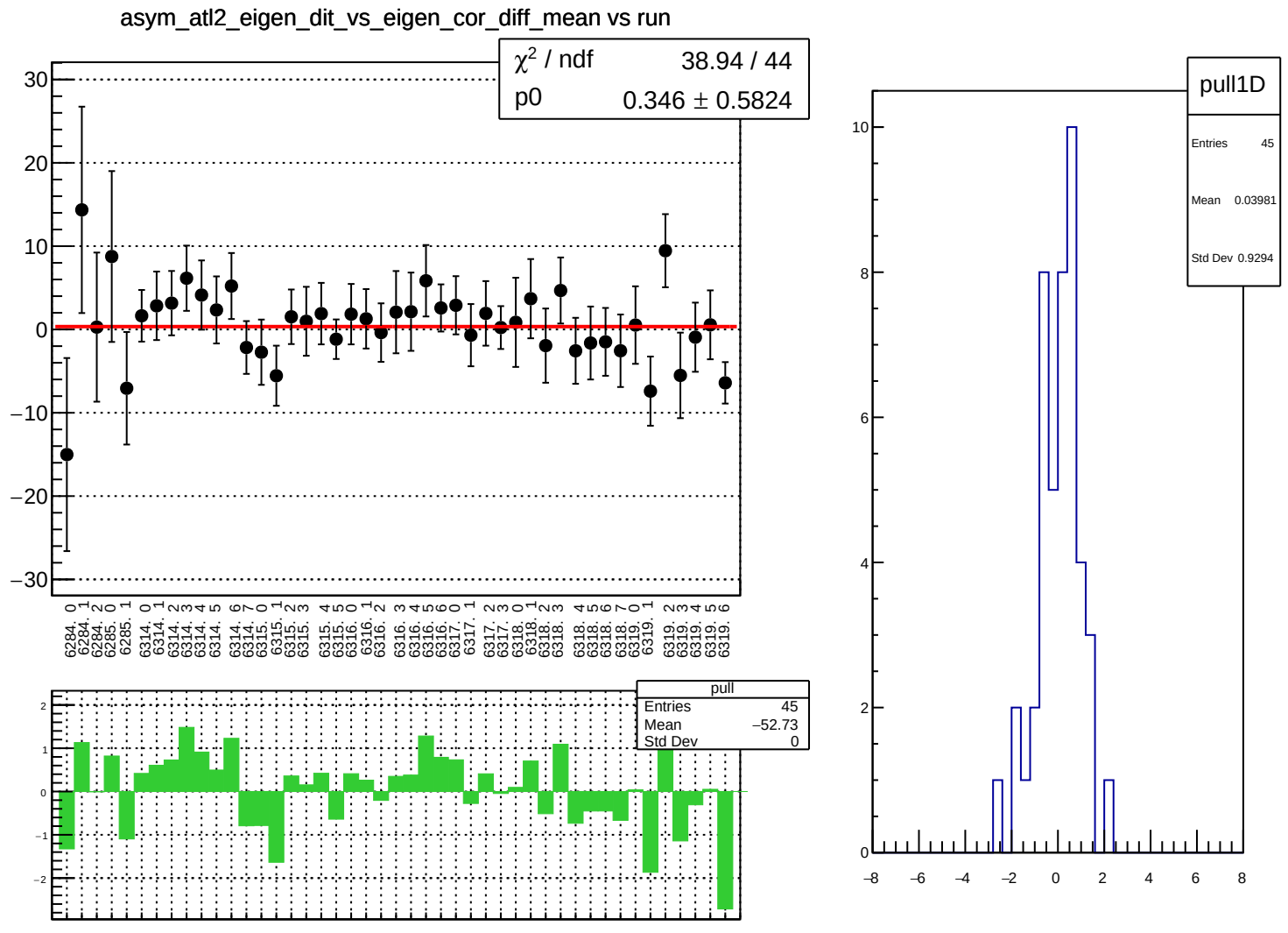

pull1D
Entries 45
Mean 0.0003731
Std Dev 0.9503
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

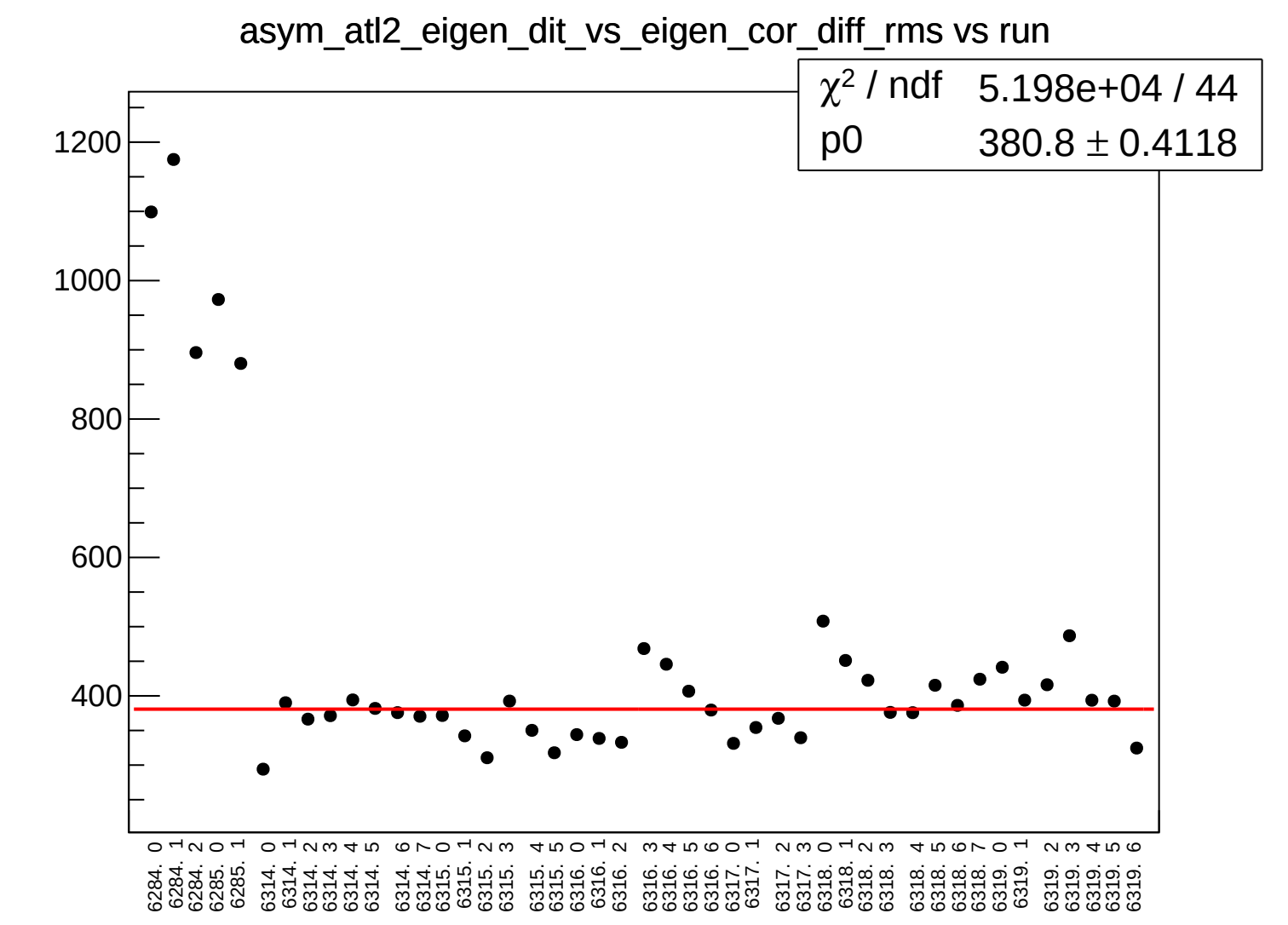

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7359 / 44
p0 0.04223 ± 4.452e−05
0.06
0.055
0.05
0.045
0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

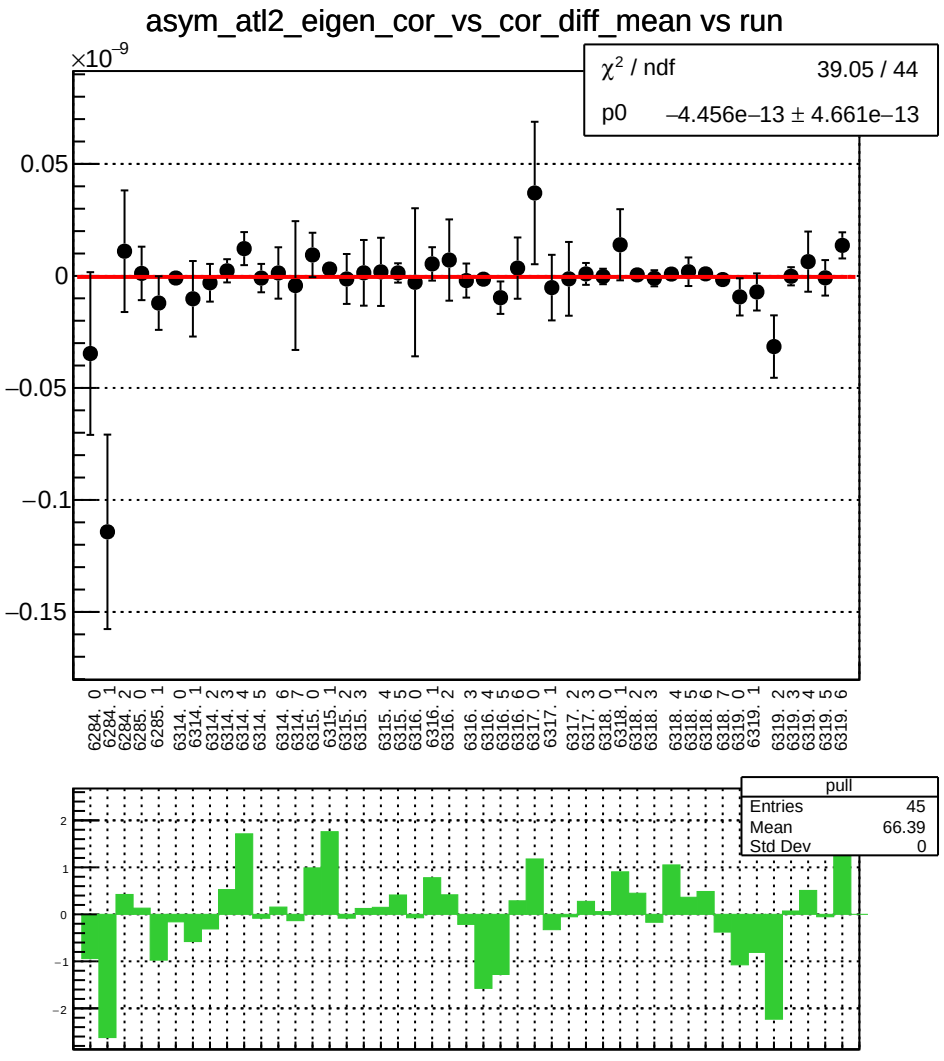

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.94 / 44
p0 0.346 ± 0.5824
30
20
10
0
−10
−20
−30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.73
Std Dev 0
2
1
0
−1
−2

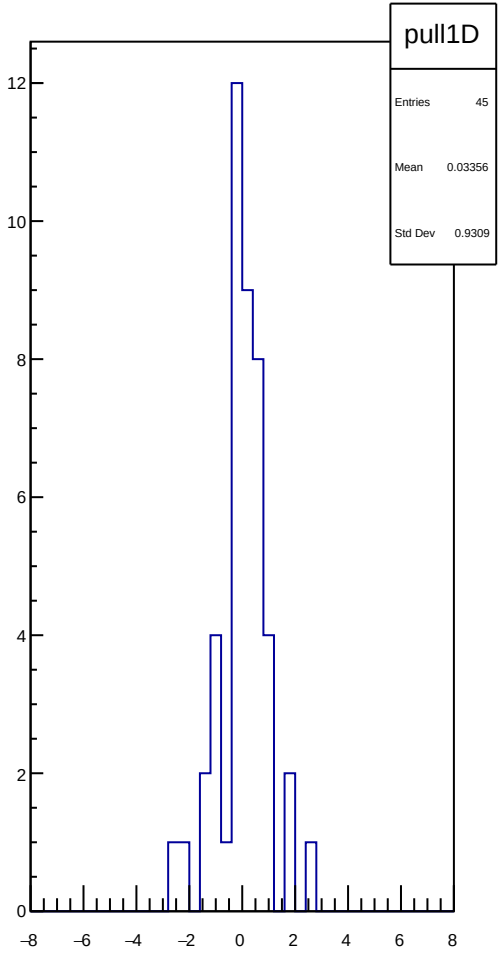

pull1D
Entries 45
Mean 0.03981
Std Dev 0.9294
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

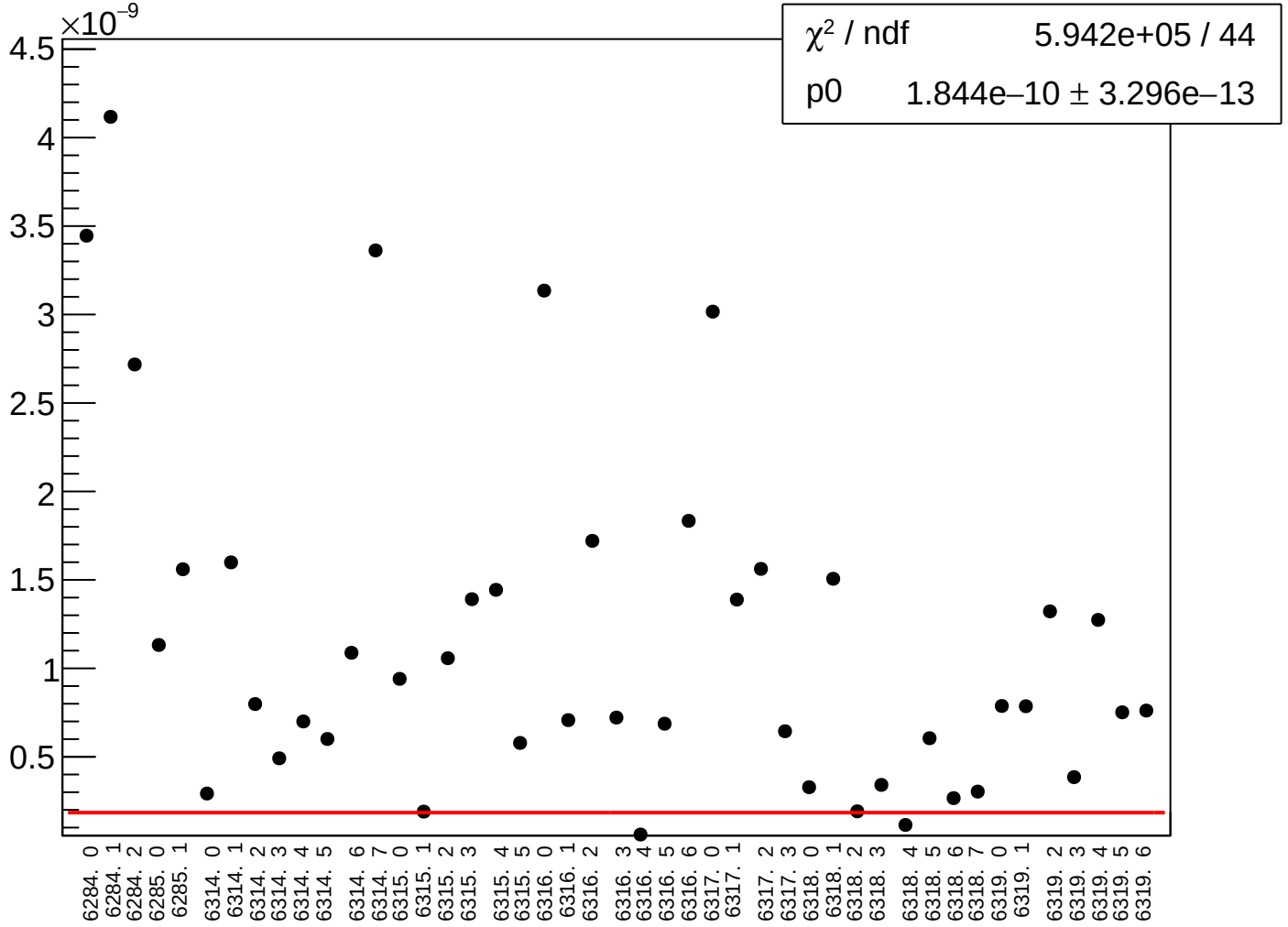

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.198e+04 / 44
p0 380.8 ± 0.4118
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

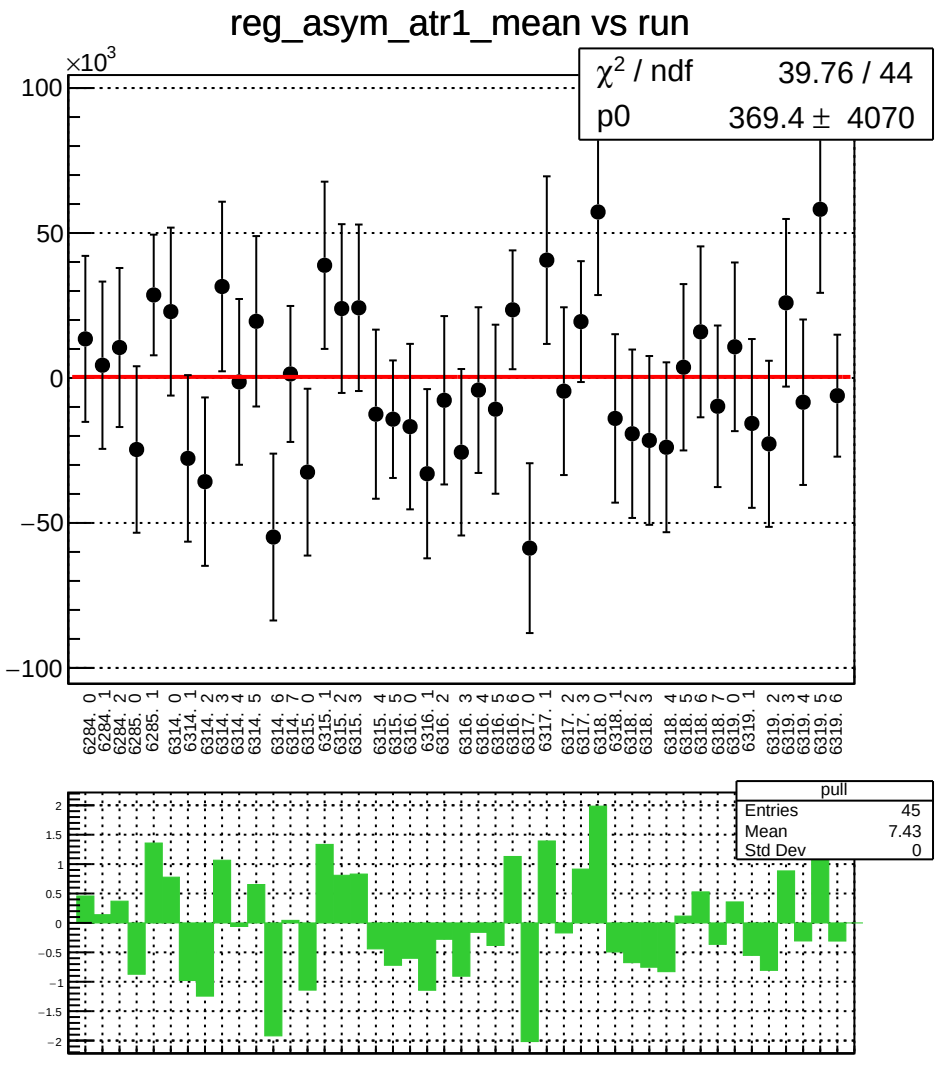

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.94 / 44
p0 0.346 ± 0.5824
pull
Entries 45
Mean −52.73
Std Dev 0
pull1D
Entries 45
Mean 0.03981
Std Dev 0.9294

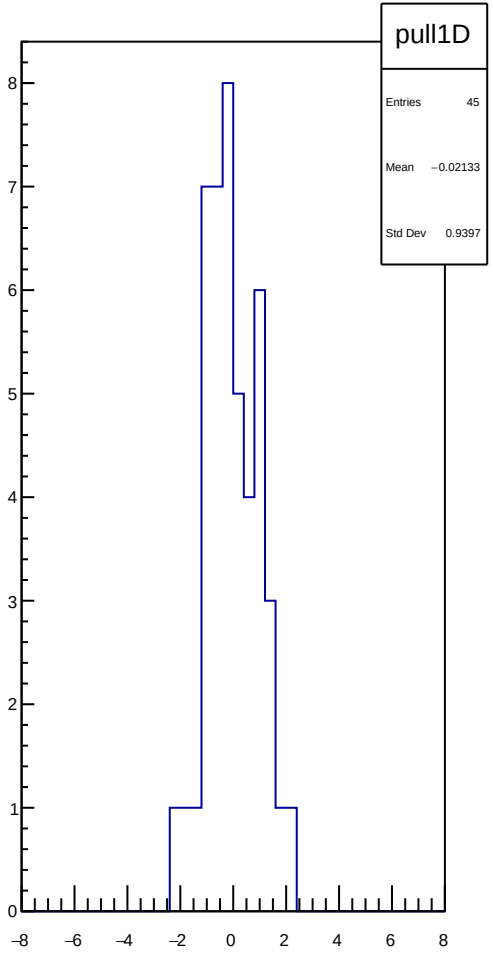

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.198e+04 / 44
p0 380.8 ± 0.4118
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

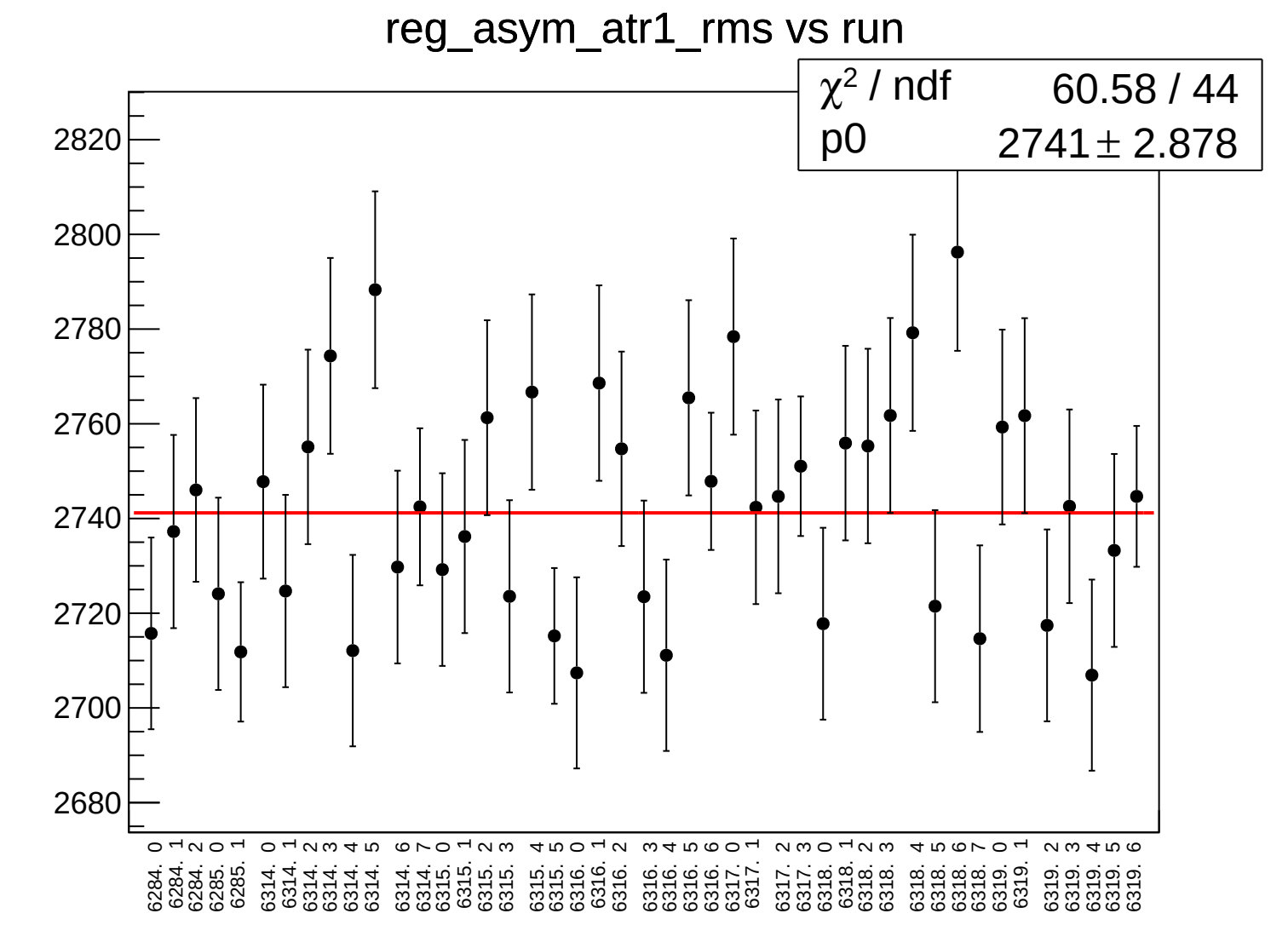

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 39.05 / 44
p0 −4.456e−13 ± 4.661e−13
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 66.39
Std Dev 0
2
1
0
−1
−2

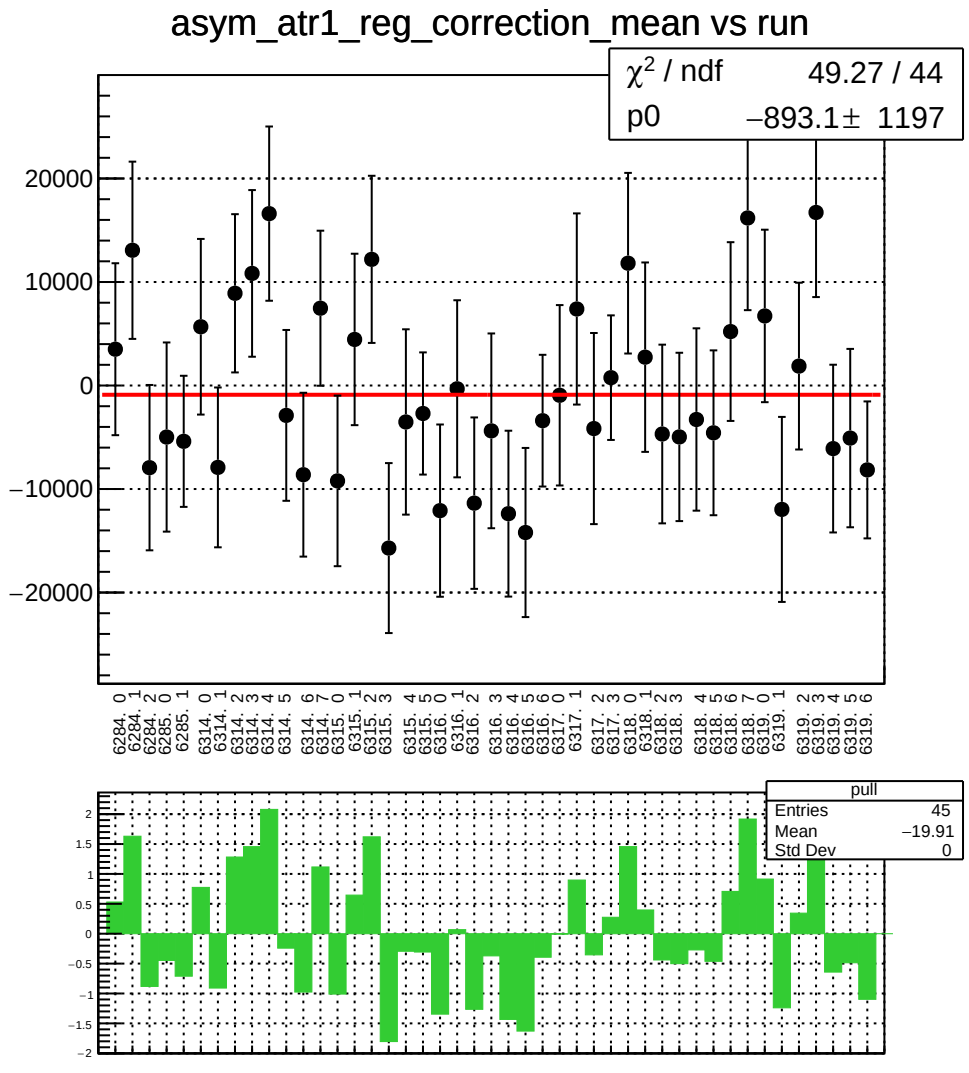

pull1D
Entries 45
Mean 0.03356
Std Dev 0.9309
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

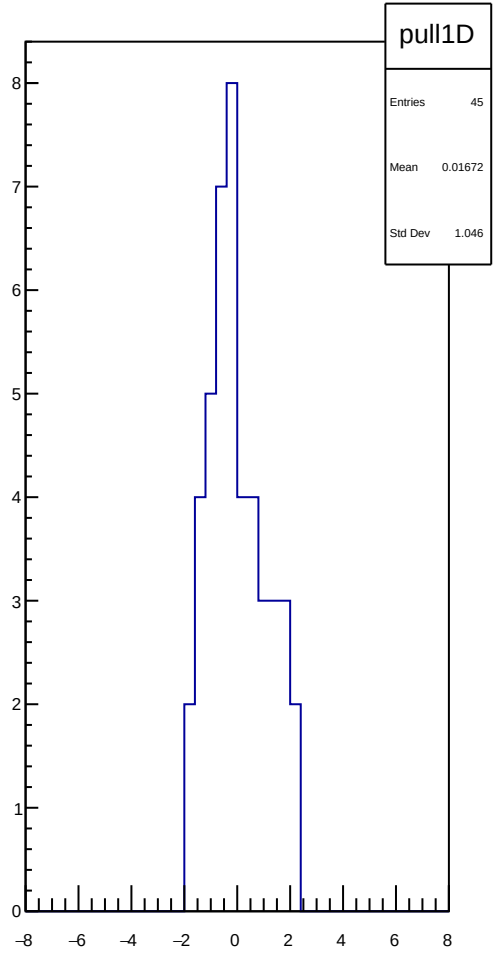

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.942e+05 / 44
p0 1.844e−10 ± 3.296e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

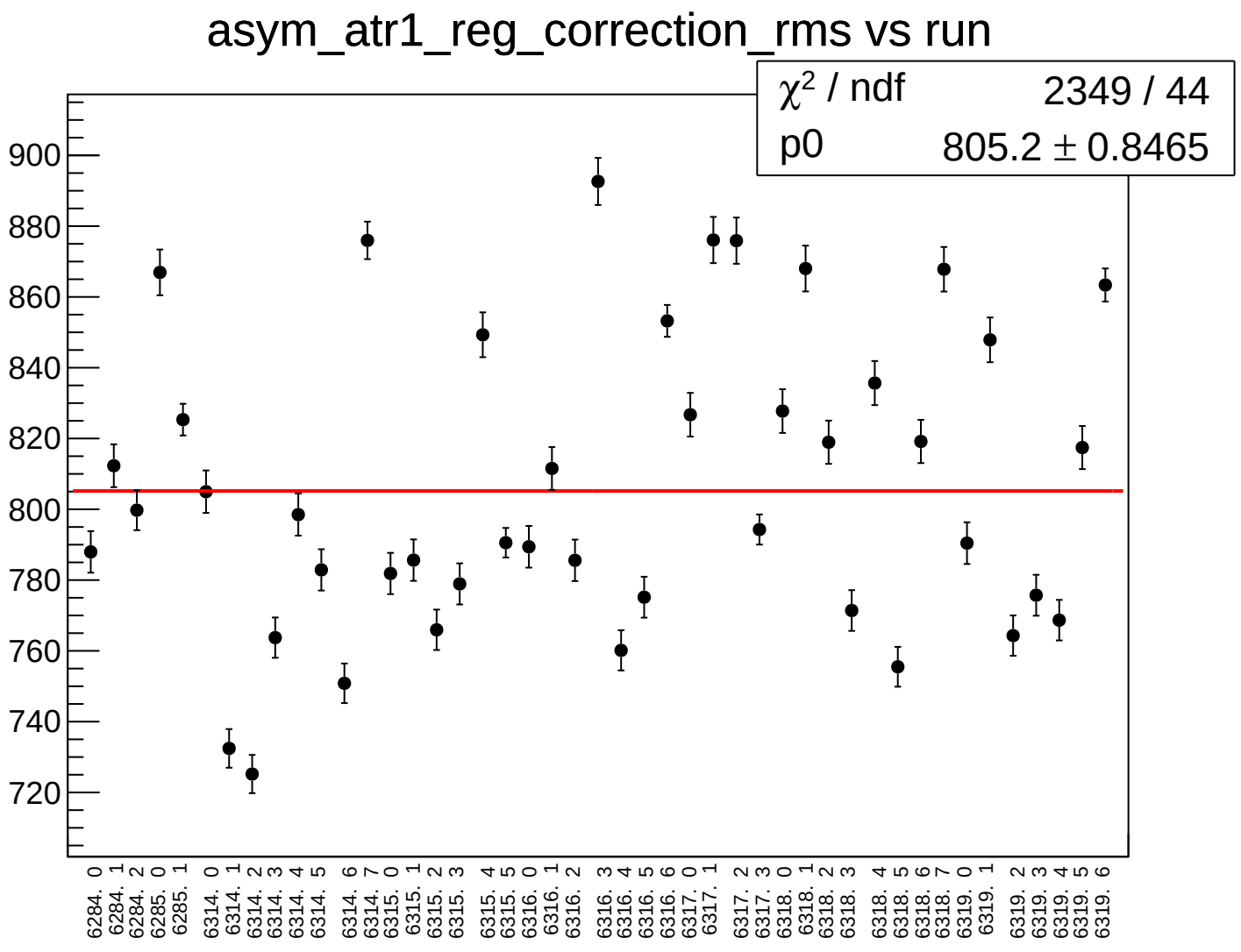

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 39.76 / 44
p0 369.4 ± 4070
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

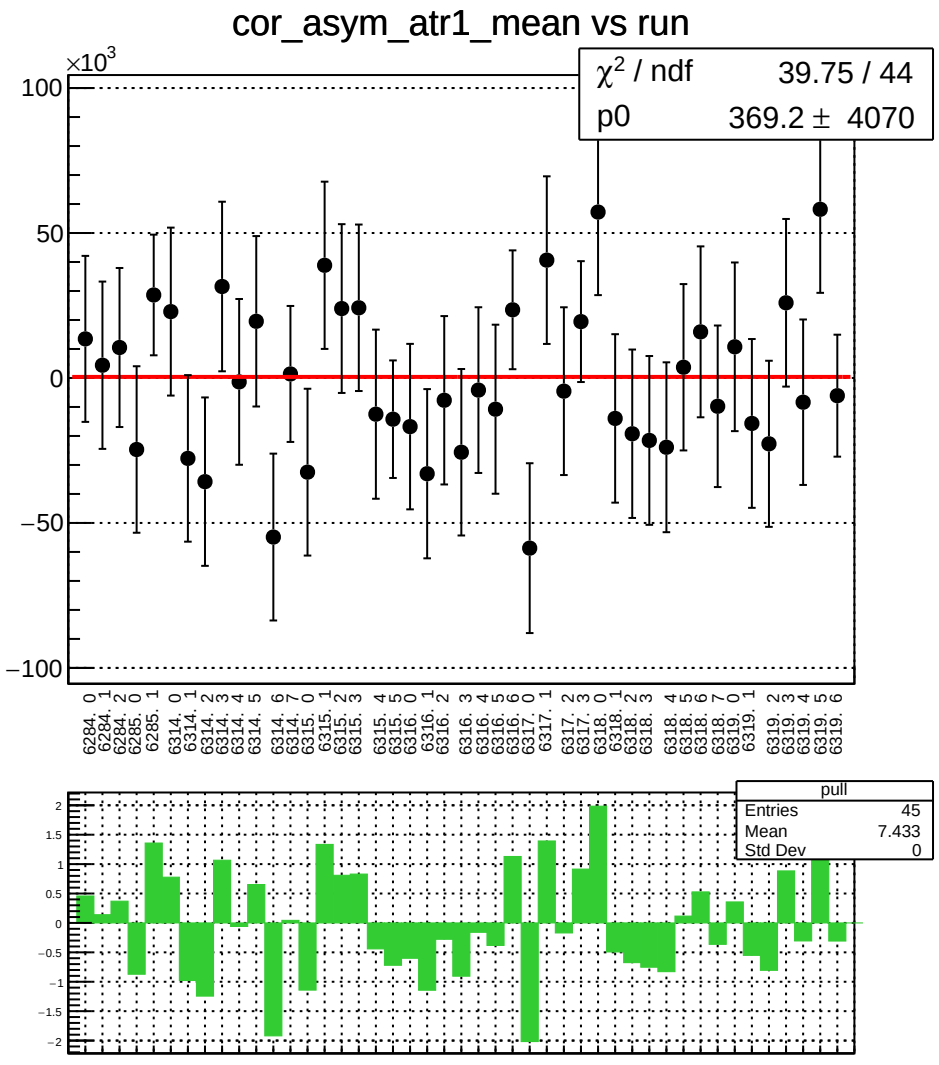

pull1D
Entries 45
Mean −0.02133
Std Dev 0.9397
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

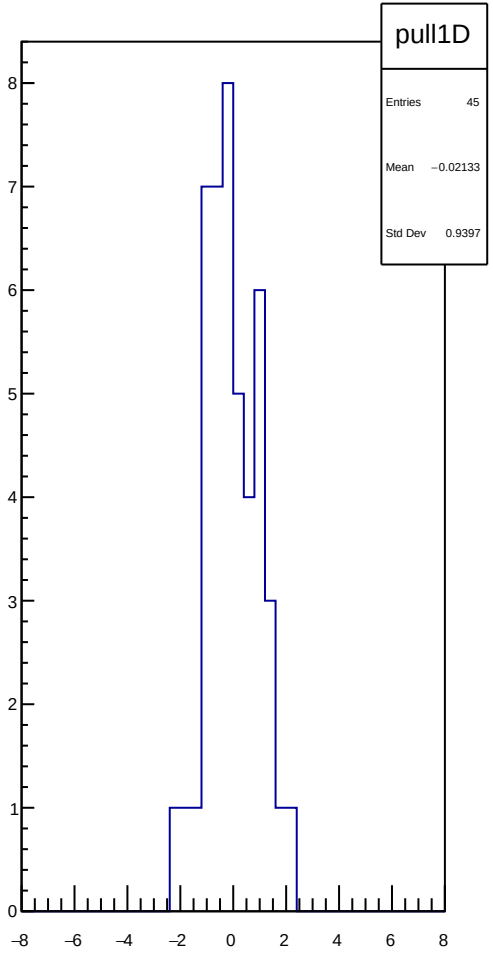

reg_asym_atr1_rms vs run
χ² / ndf 60.58 / 44
p0 2741 ± 2.878
2820
2800
2780
2760
2740
2720
2700
2680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

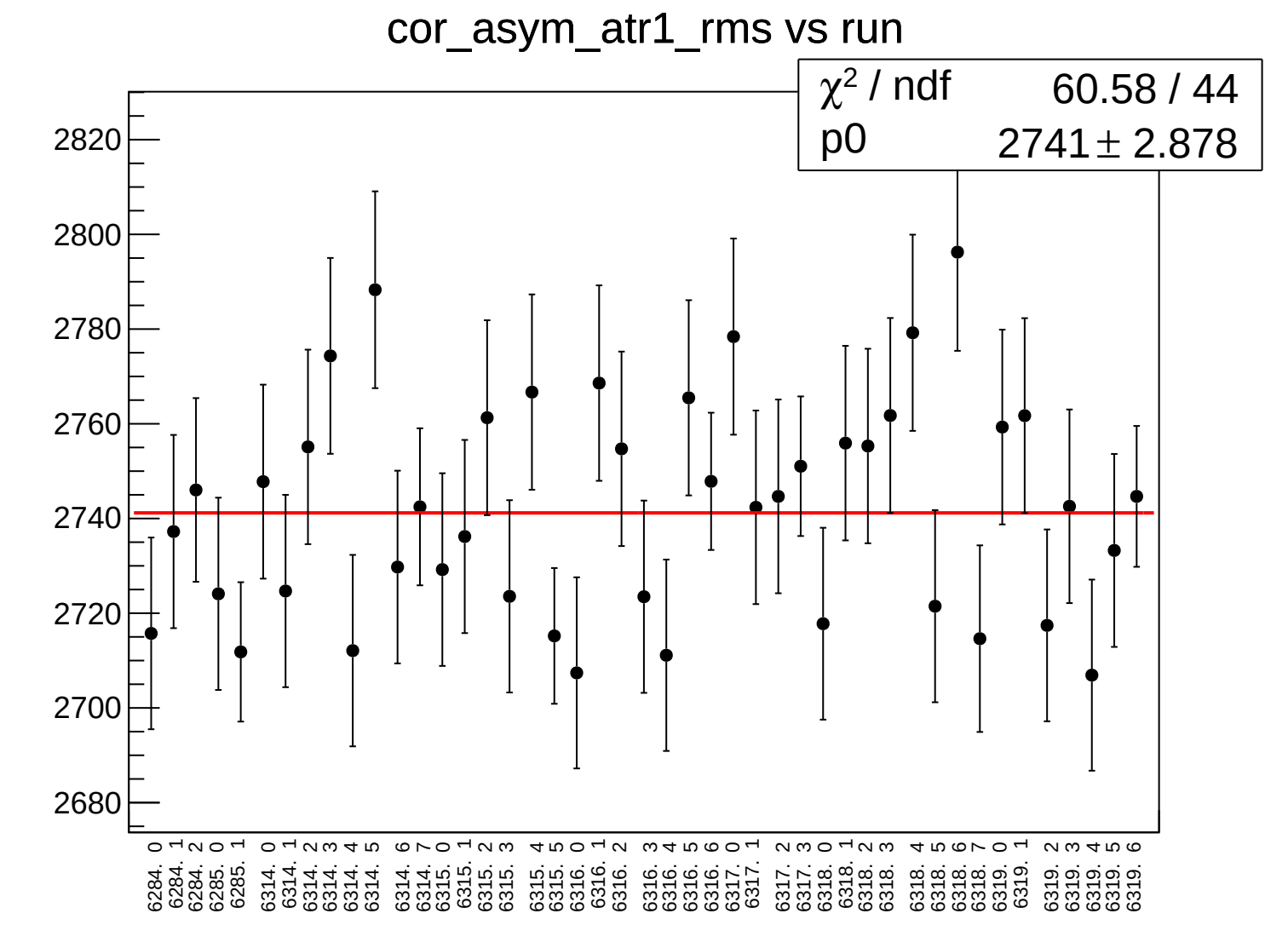

asym_atr1_reg_correction_mean vs run
χ² / ndf 49.27 / 44
p0 −893.1± 1197
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −19.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

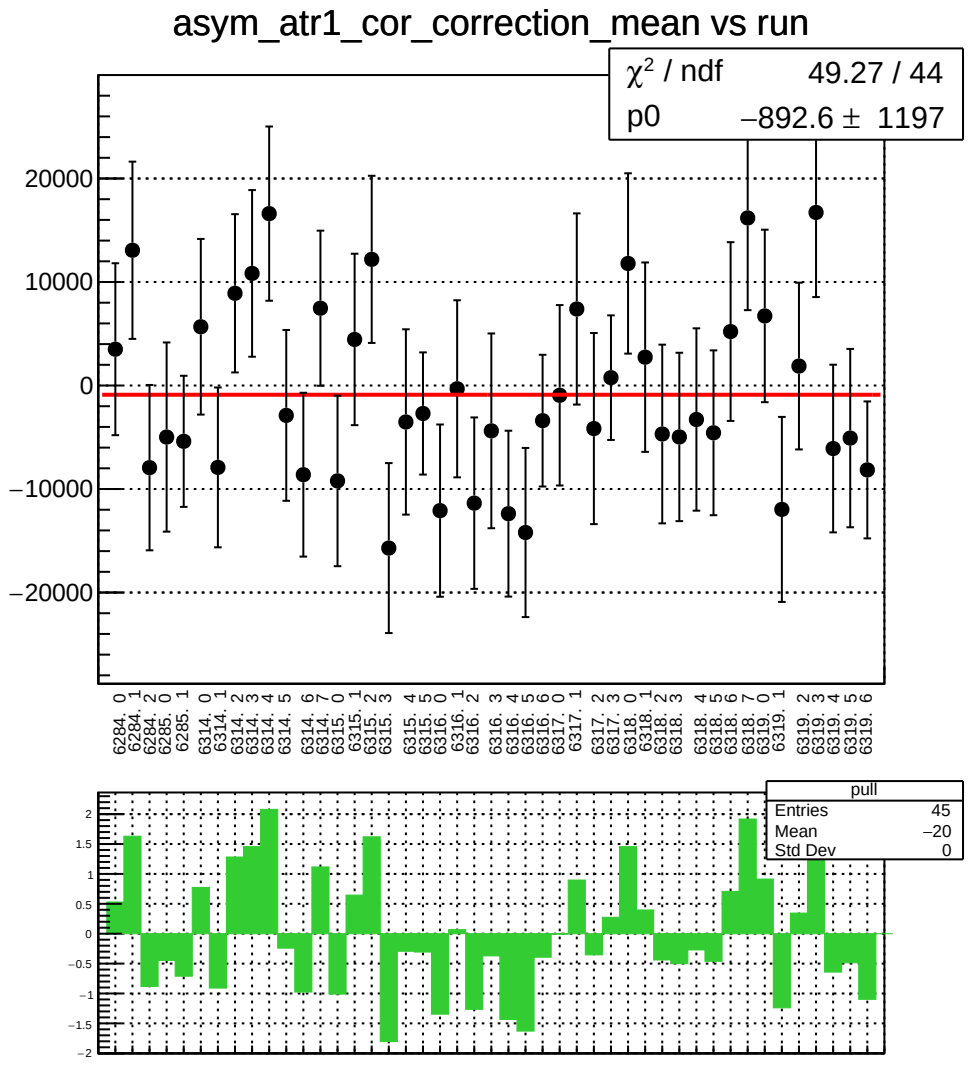

pull1D
Entries 45
Mean 0.01672
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

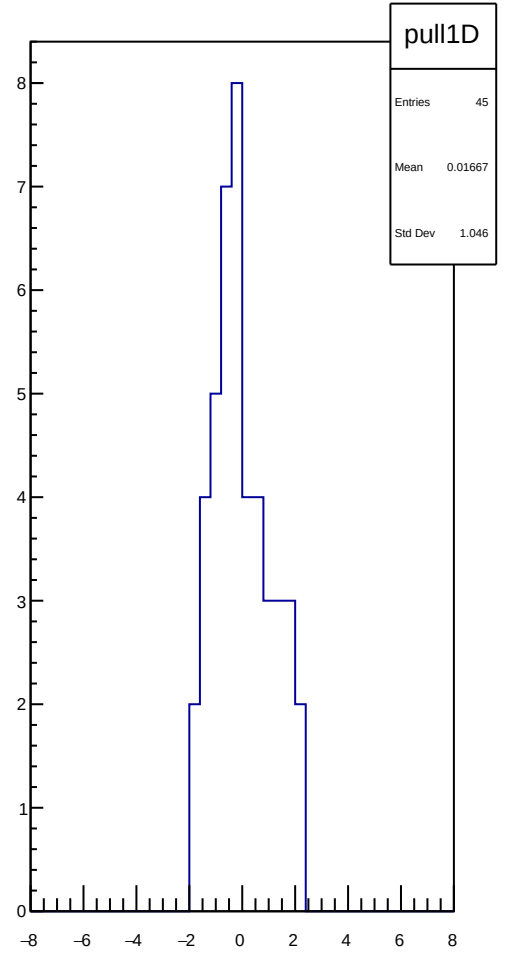

asym_atr1_reg_correction_rms vs run
χ² / ndf 2349 / 44
p0 805.2 ± 0.8465
900
880
860
840
820
800
780
760
740
720
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

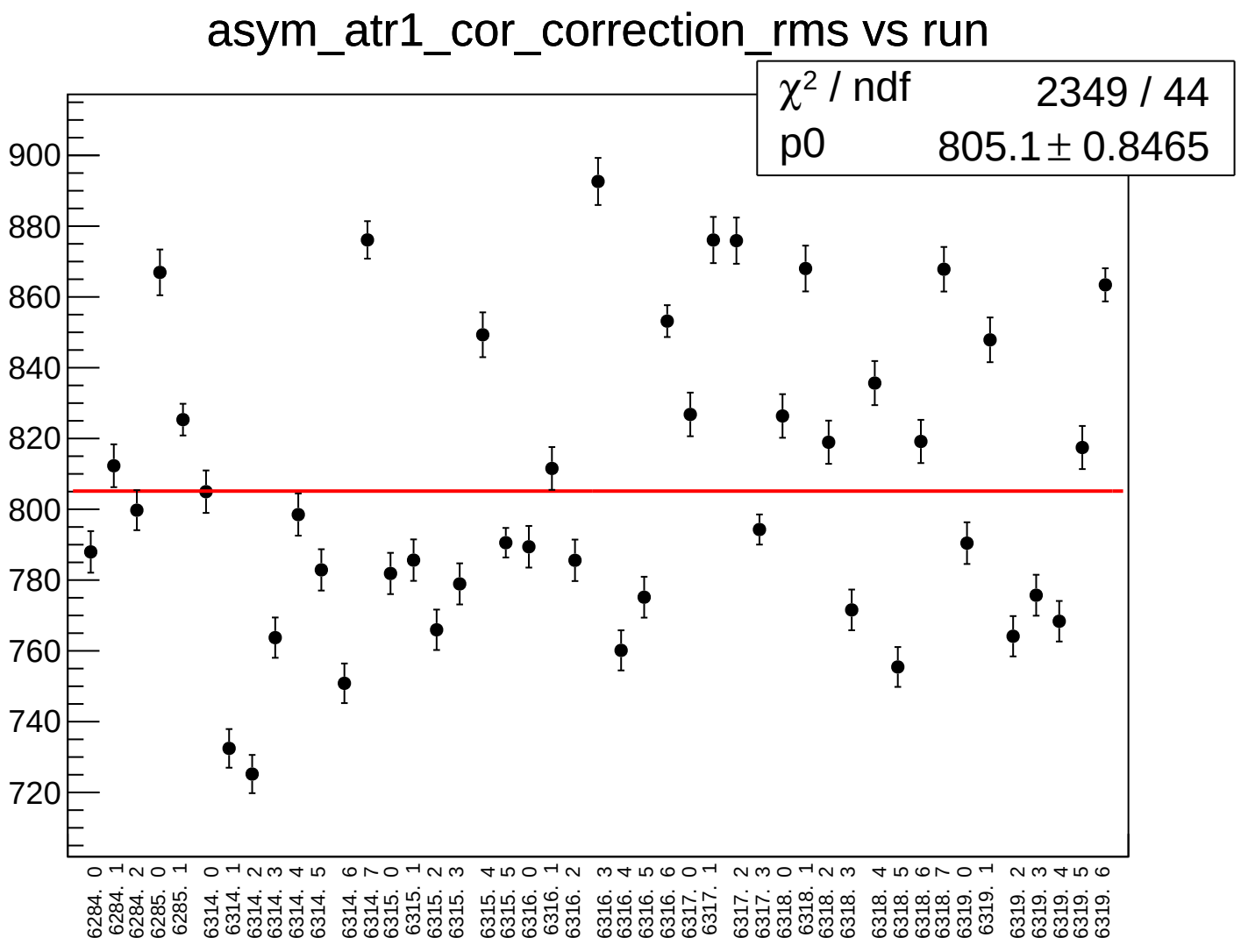

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 39.75 / 44
p0 369.2 ± 4070
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.433
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02133
Std Dev 0.9397
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

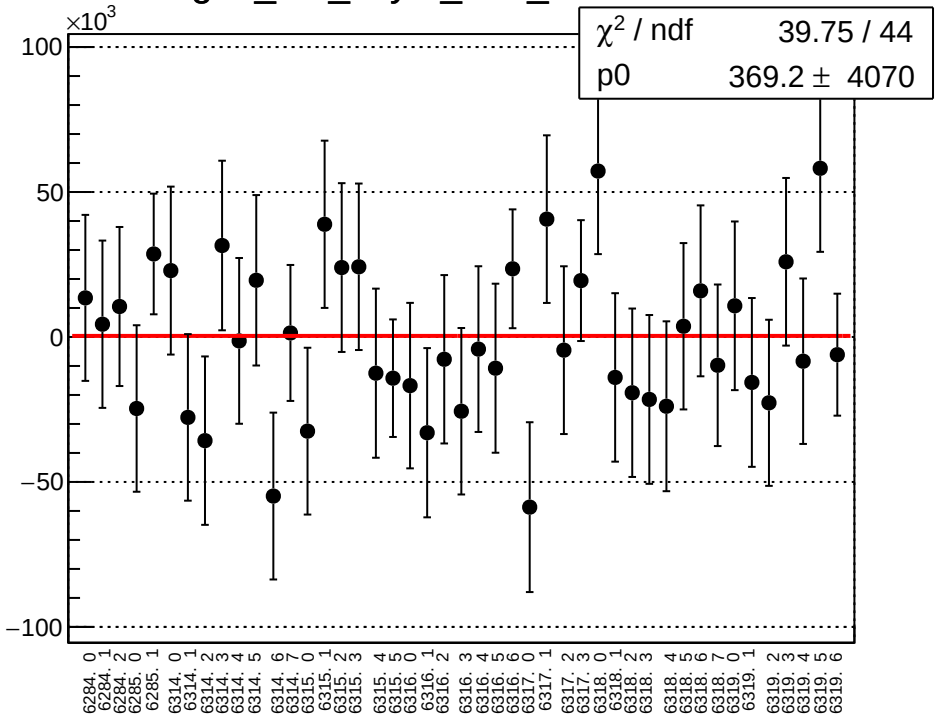

cor_asym_atr1_rms vs run
χ² / ndf 60.58 / 44
p0 2741 ± 2.878
2820
2800
2780
2760
2740
2720
2700
2680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

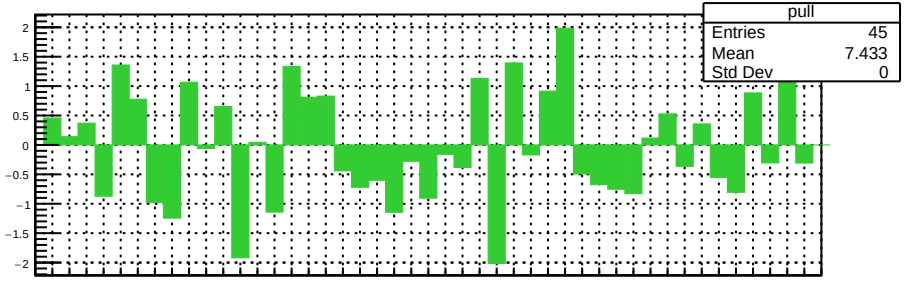

asym_atr1_cor_correction_mean vs run
χ² / ndf 49.27 / 44
p0 −892.6 ± 1197
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −20
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

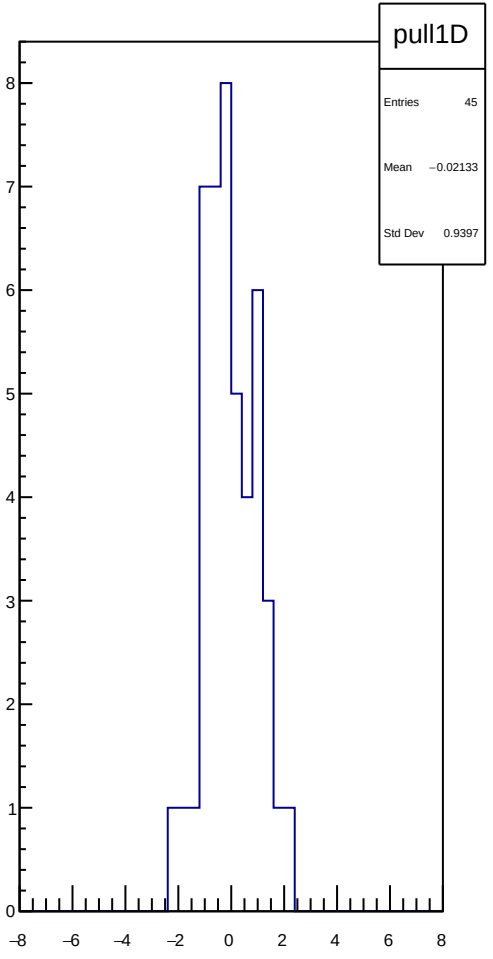

pull1D
Entries 45
Mean 0.01667
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

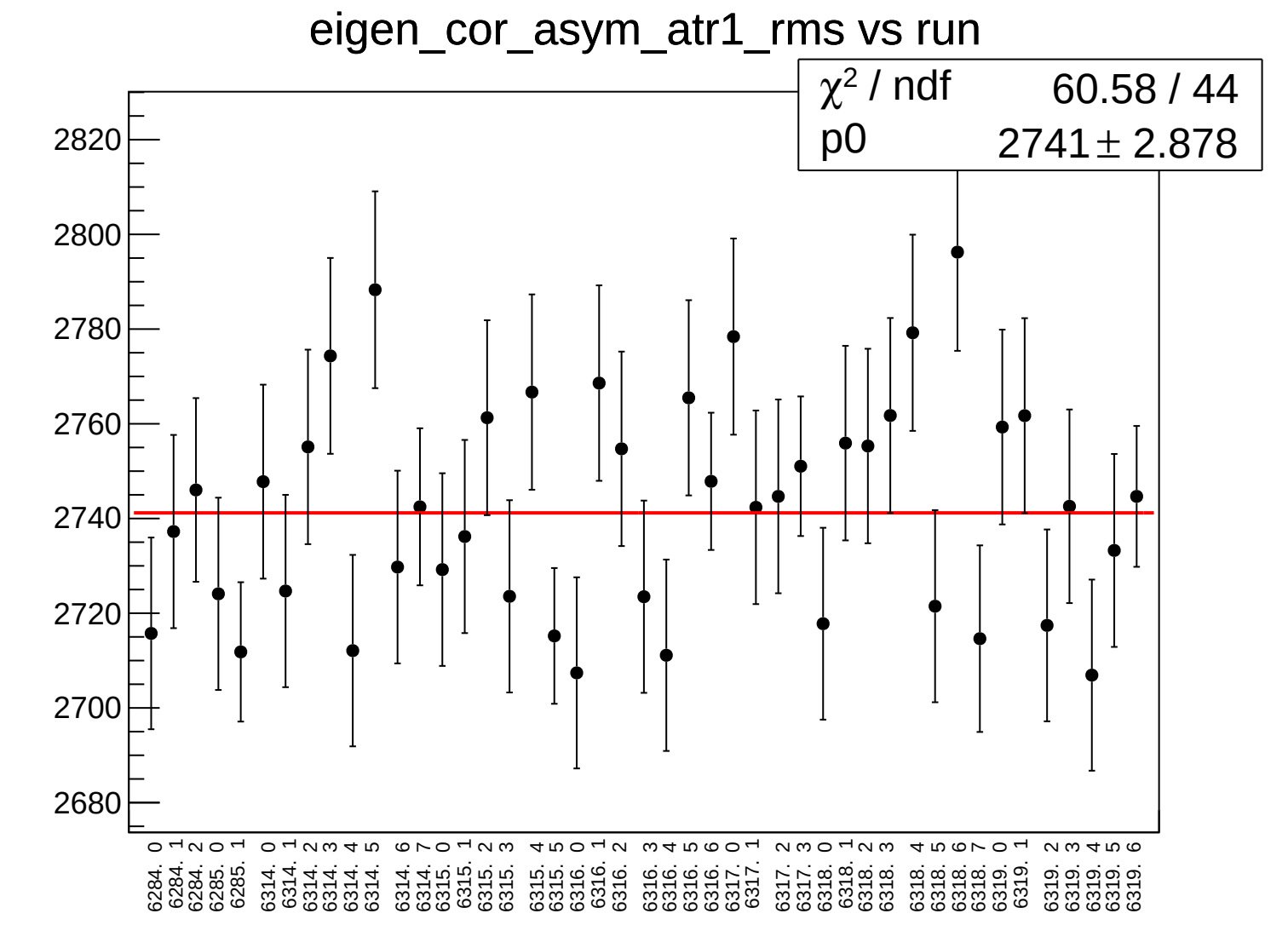

asym_atr1_cor_correction_rms vs run
χ² / ndf 2349 / 44
p0 805.1 ± 0.8465
900
880
860
840
820
800
780
760
740
720
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

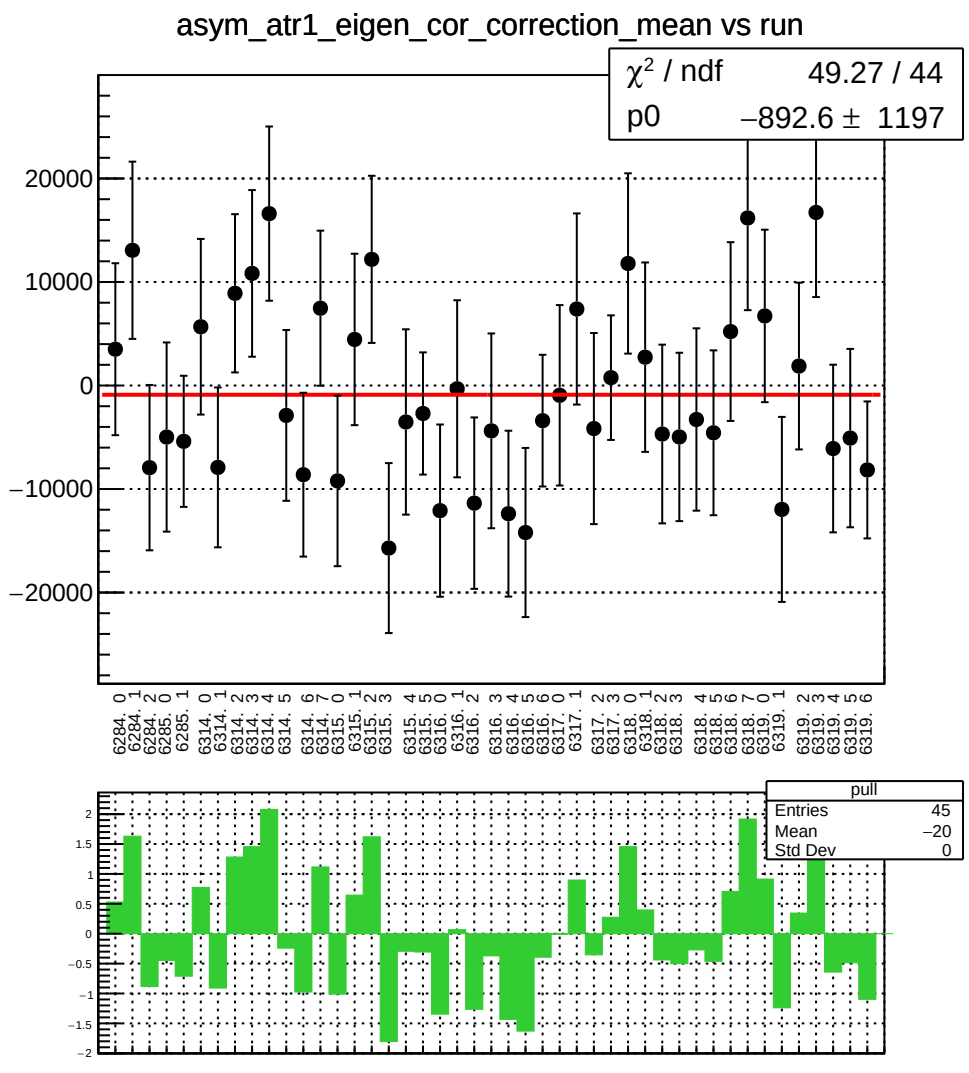
eigen_cor_asym_atr1_mean vs run

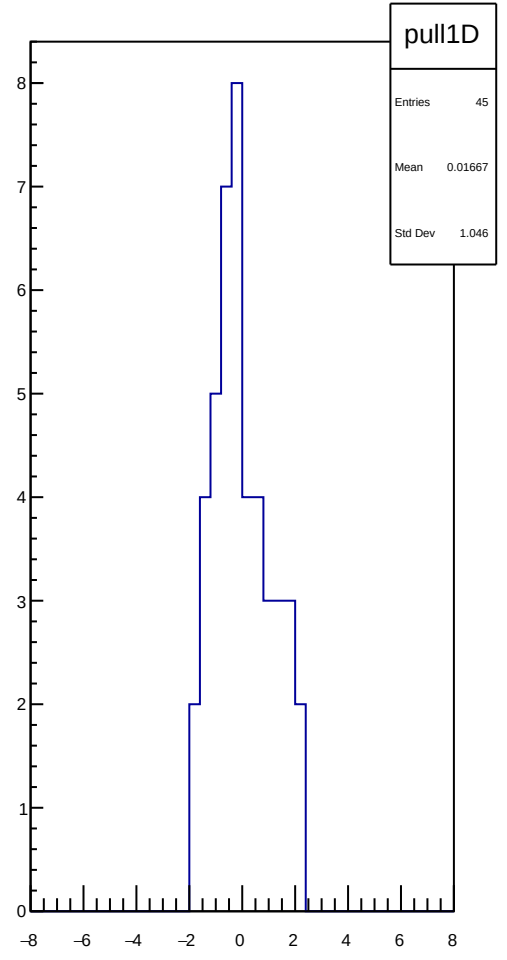


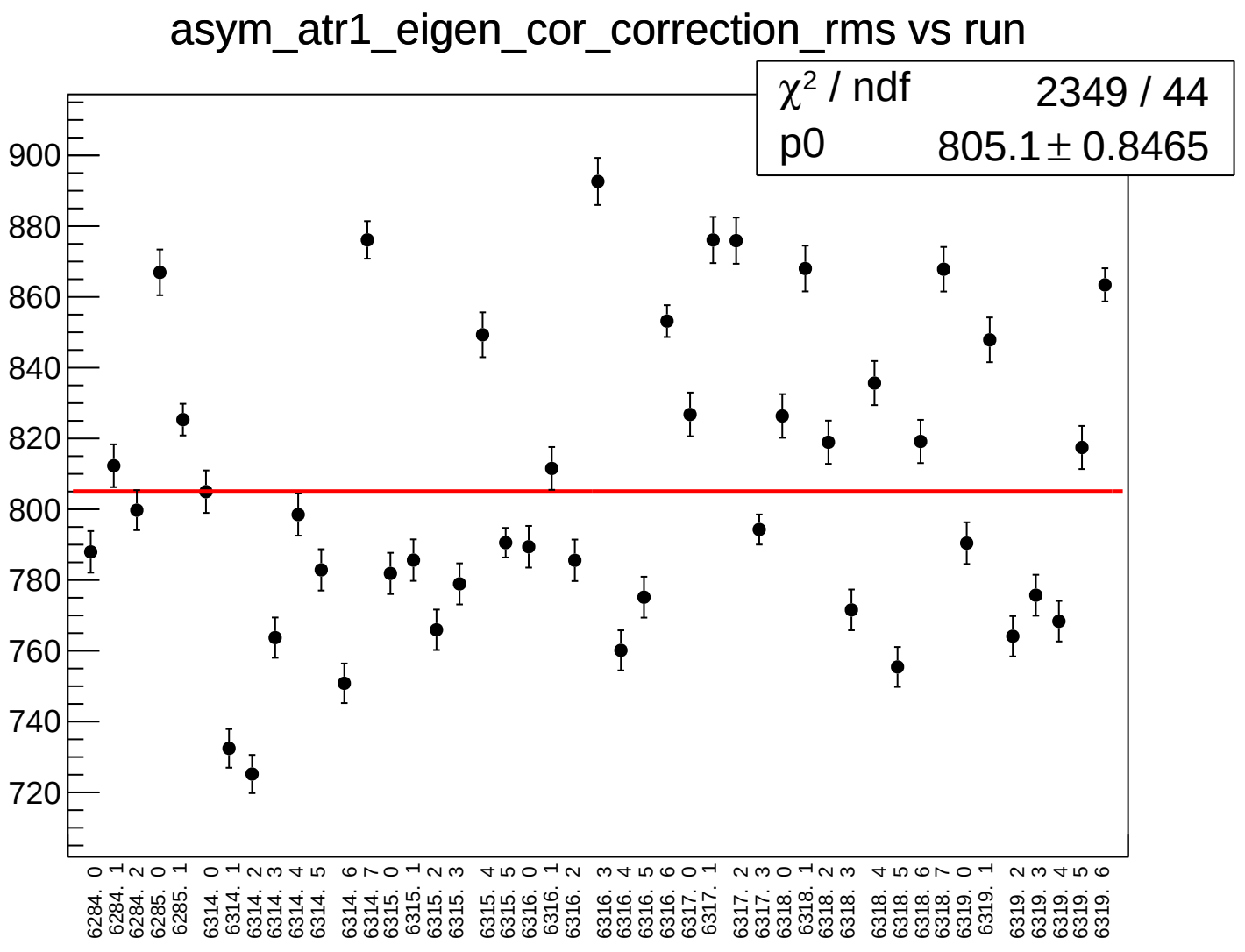


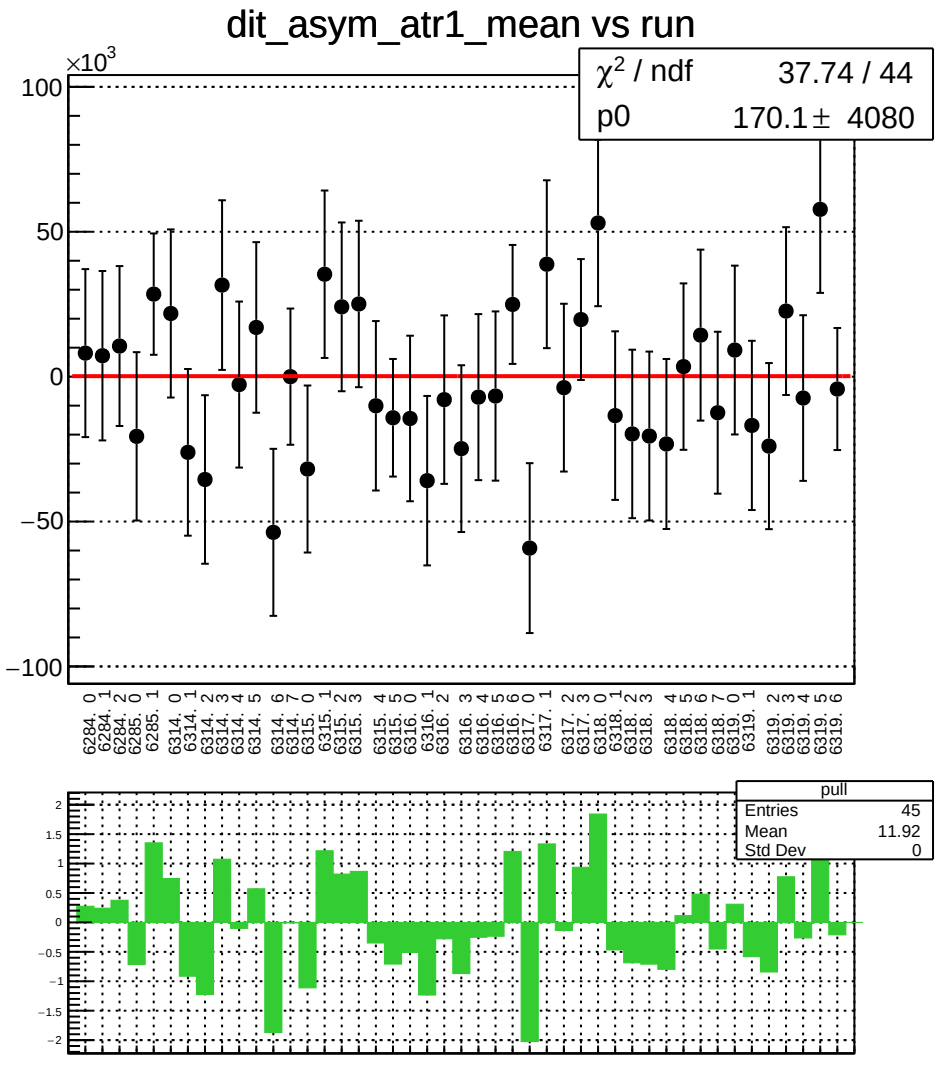


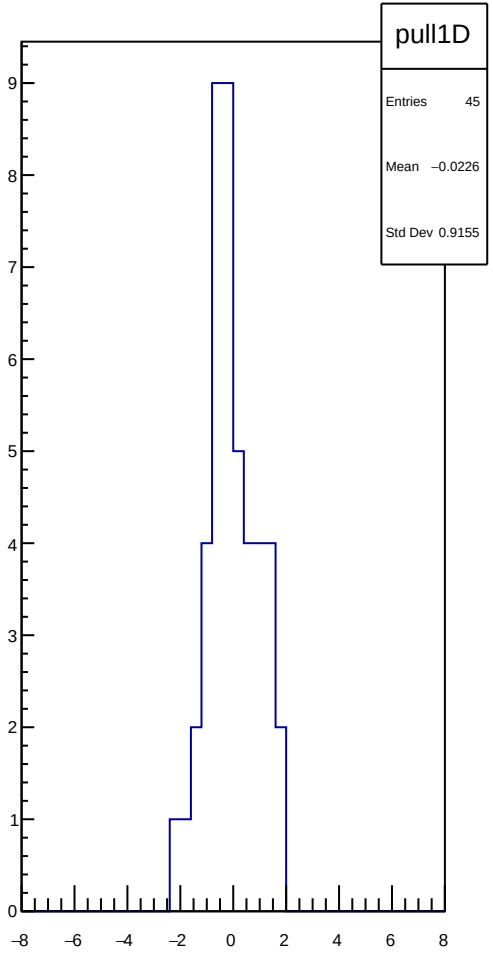

eigen_cor_asym_atr1_rms vs run
χ² / ndf 60.58 / 44
p0 2741 ± 2.878
2820
2800
2780
2760
2740
2720
2700
2680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

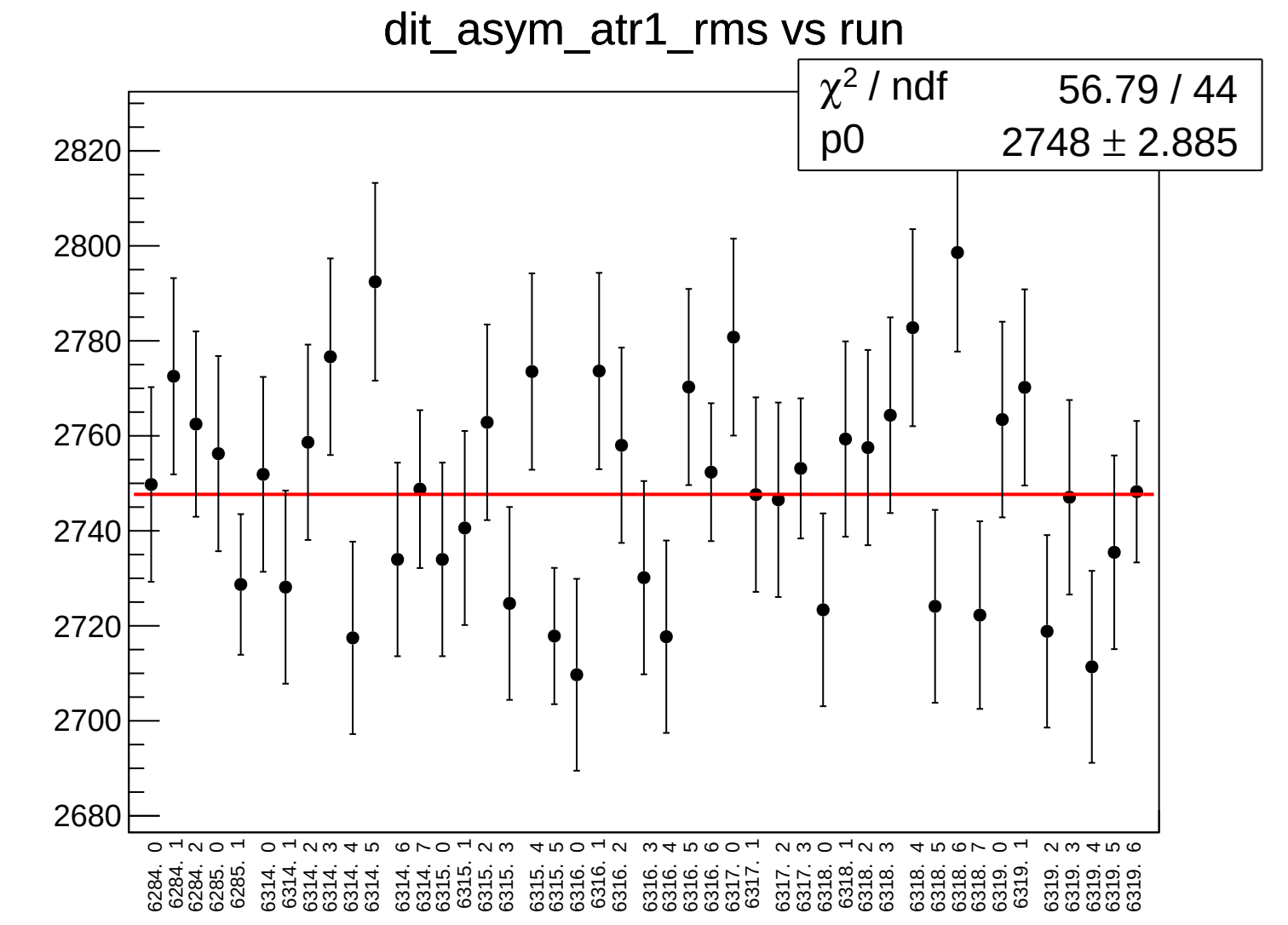

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 49.27 / 44
p0 −892.6 ± 1197
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −20
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01667
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2349 / 44
p0 805.1 ± 0.8465
900
880
860
840
820
800
780
760
740
720
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.74 / 44
p0 170.1 ± 4080
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0226
Std Dev 0.9155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1_rms vs run
χ² / ndf 56.79 / 44
p0 2748 ± 2.885
2820
2800
2780
2760
2740
2720
2700
2680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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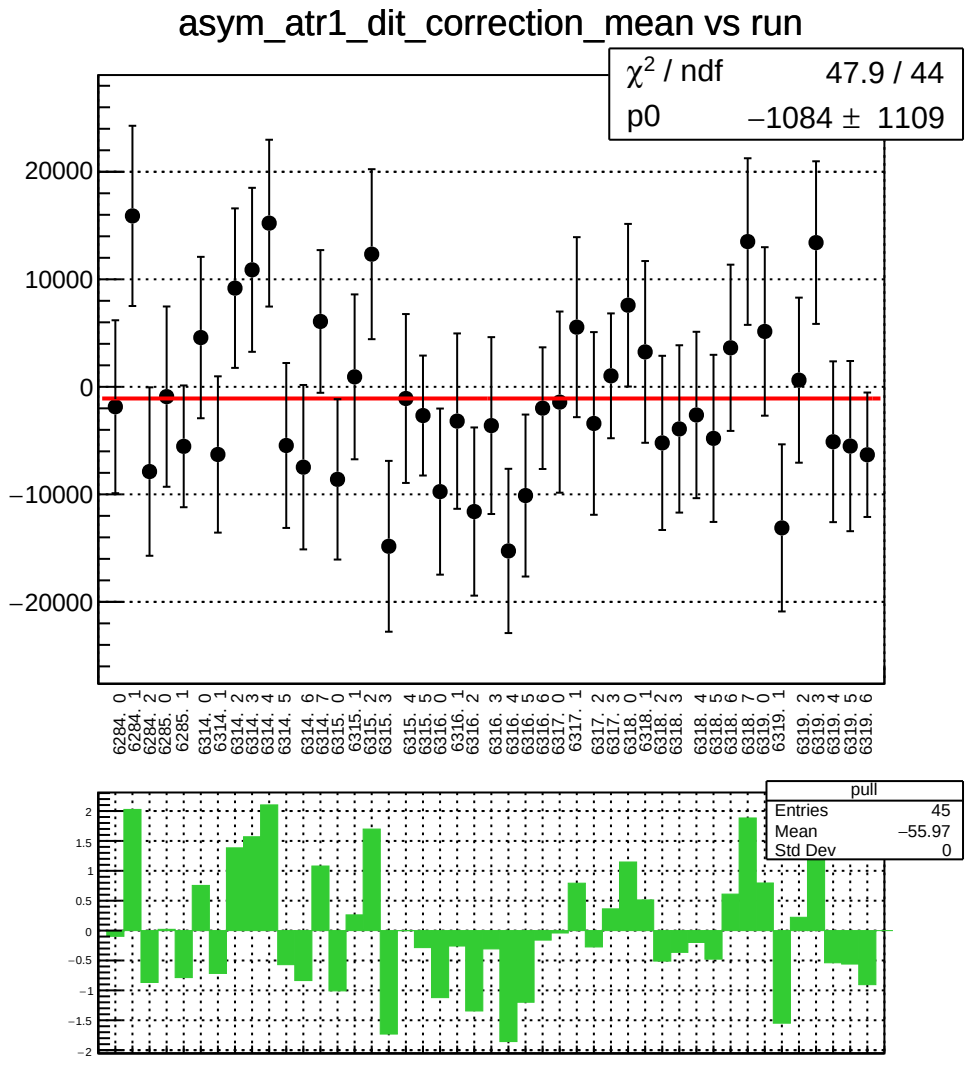
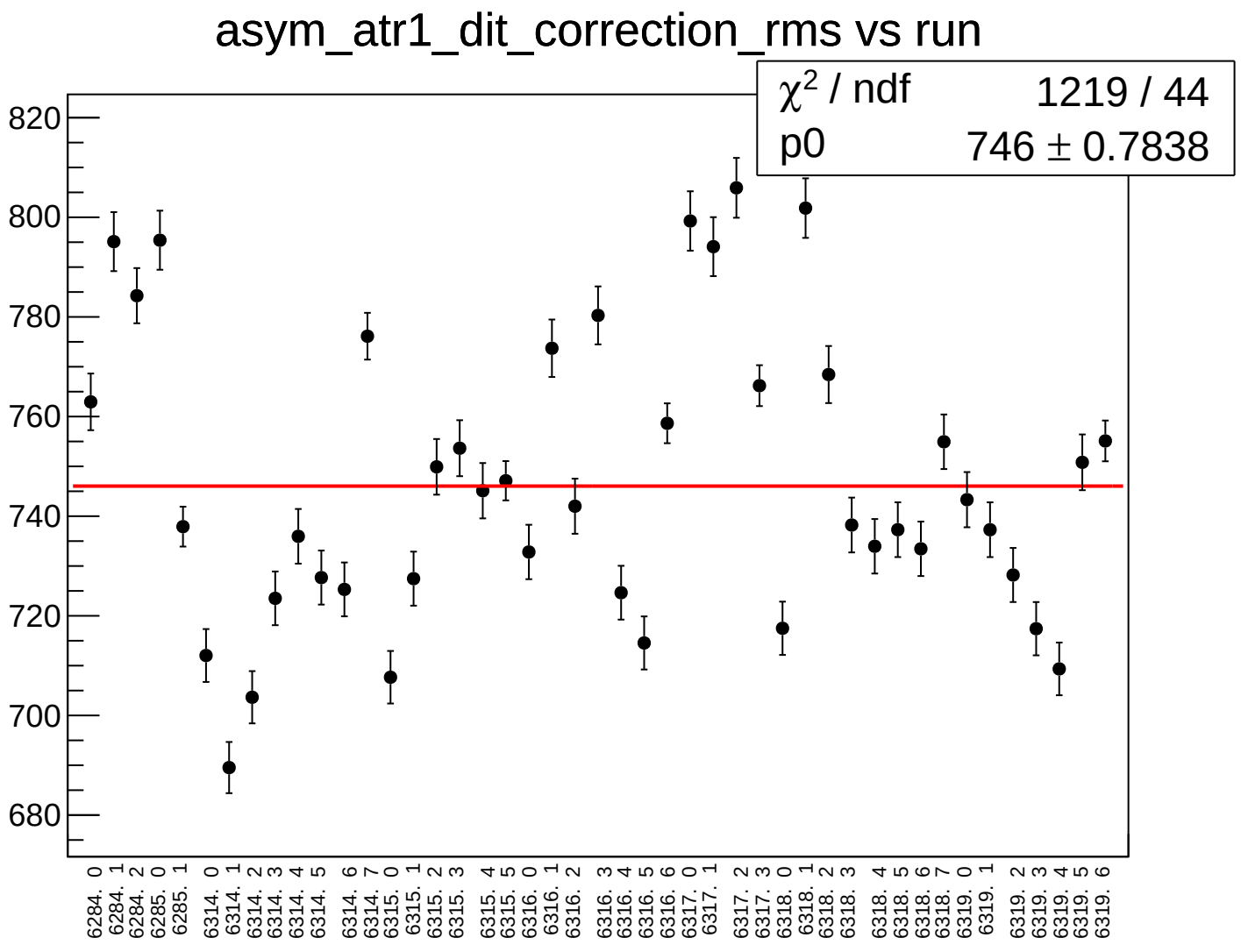
6319. 5
6319. 6


asym_atr1_dit_correction_mean vs run
χ² / ndf 47.9 / 44
p0 −1084 ± 1109
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −55.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01314
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_dit_correction_rms vs run
χ² / ndf 1219 / 44
p0 746 ± 0.7838
820
800
780
760
740
720
700
680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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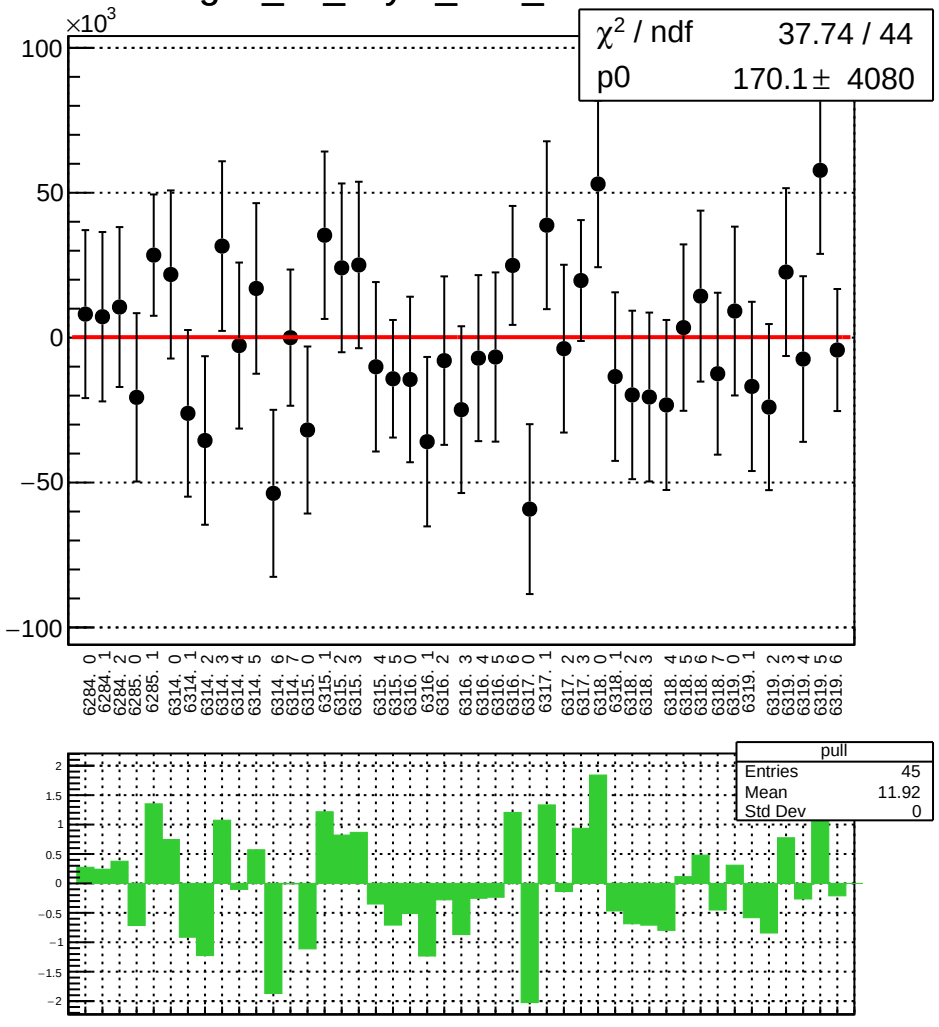
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 37.74 / 44
p0 170.1 ± 4080
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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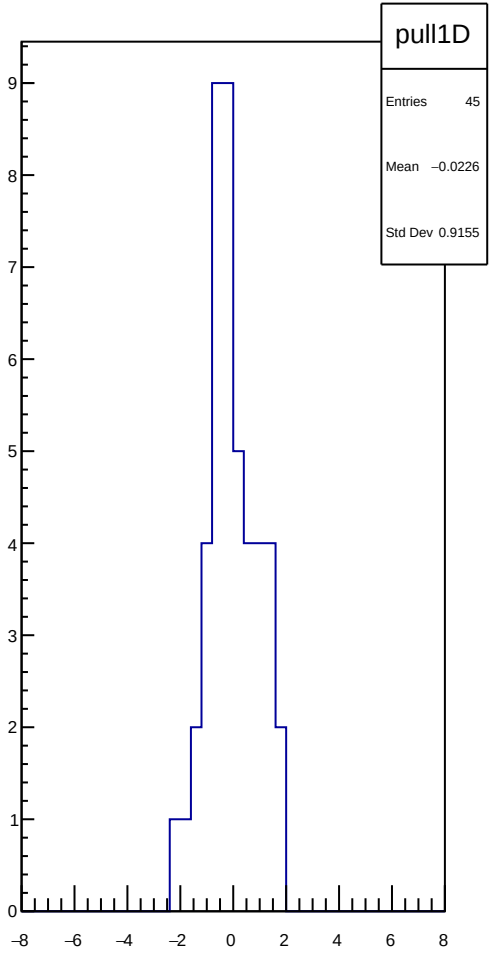
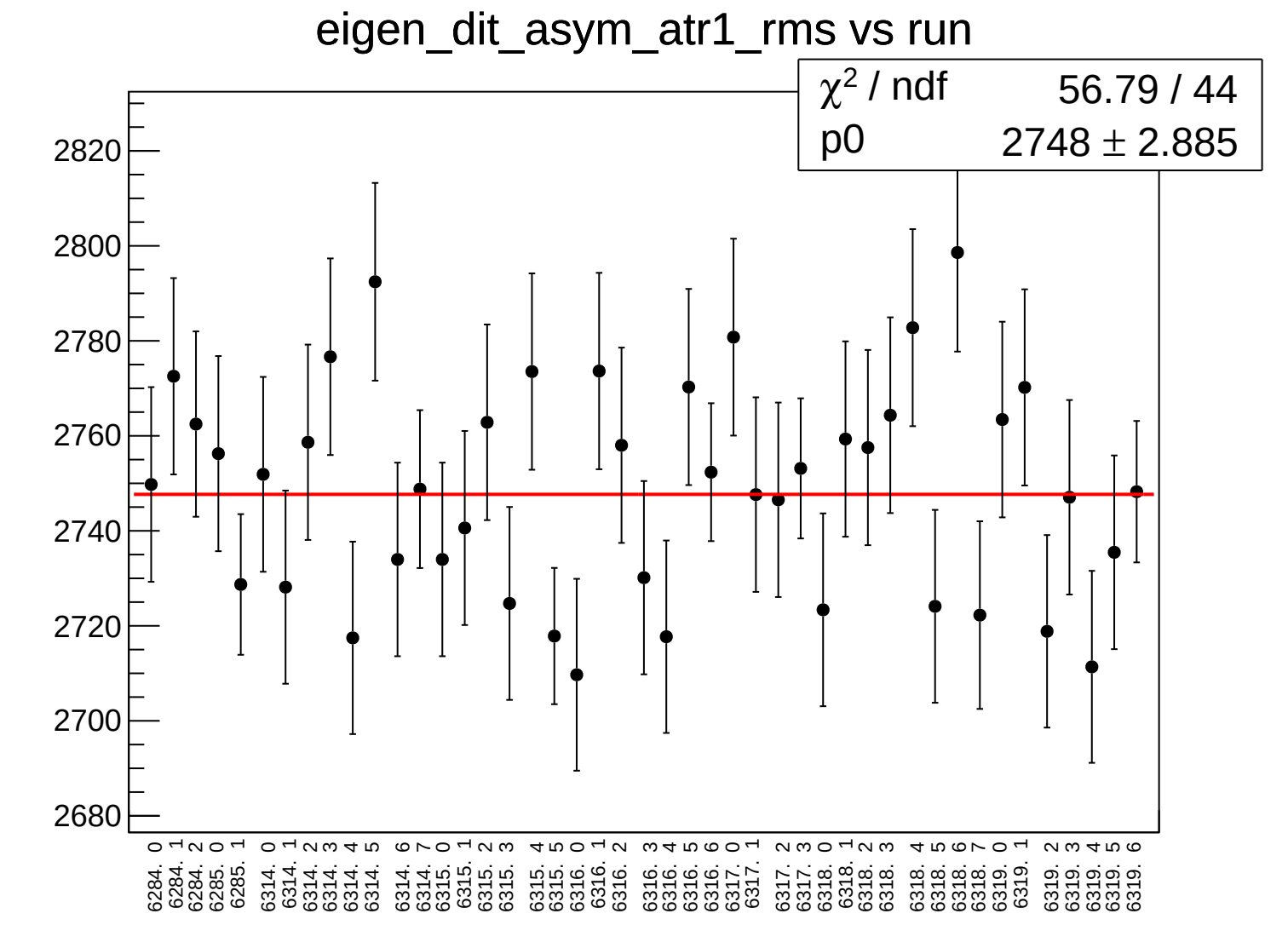
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0226
Std Dev 0.9155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1_rms vs run
χ² / ndf 56.79 / 44
p0 2748 ± 2.885
2820
2800
2780
2760
2740
2720
2700
2680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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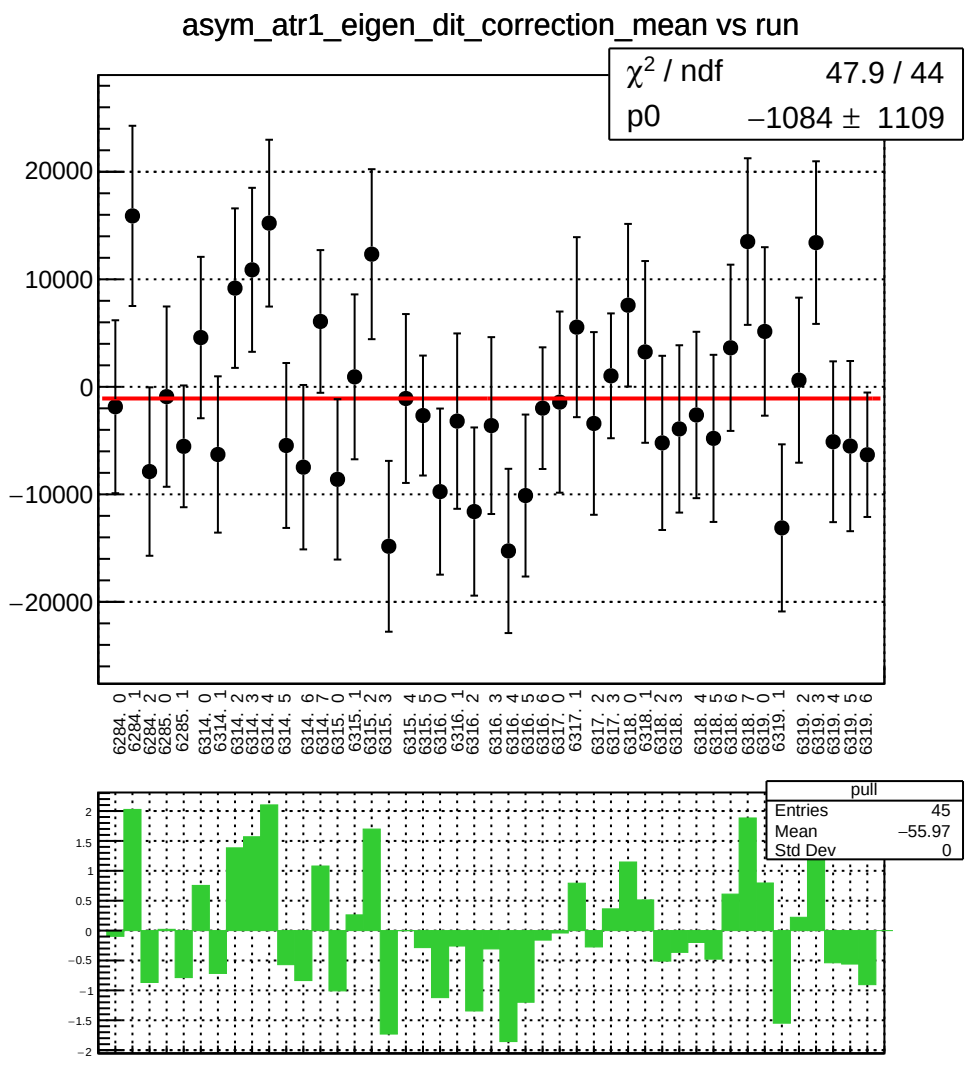
6319. 6


asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 47.9 / 44
p0 −1084 ± 1109
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 7
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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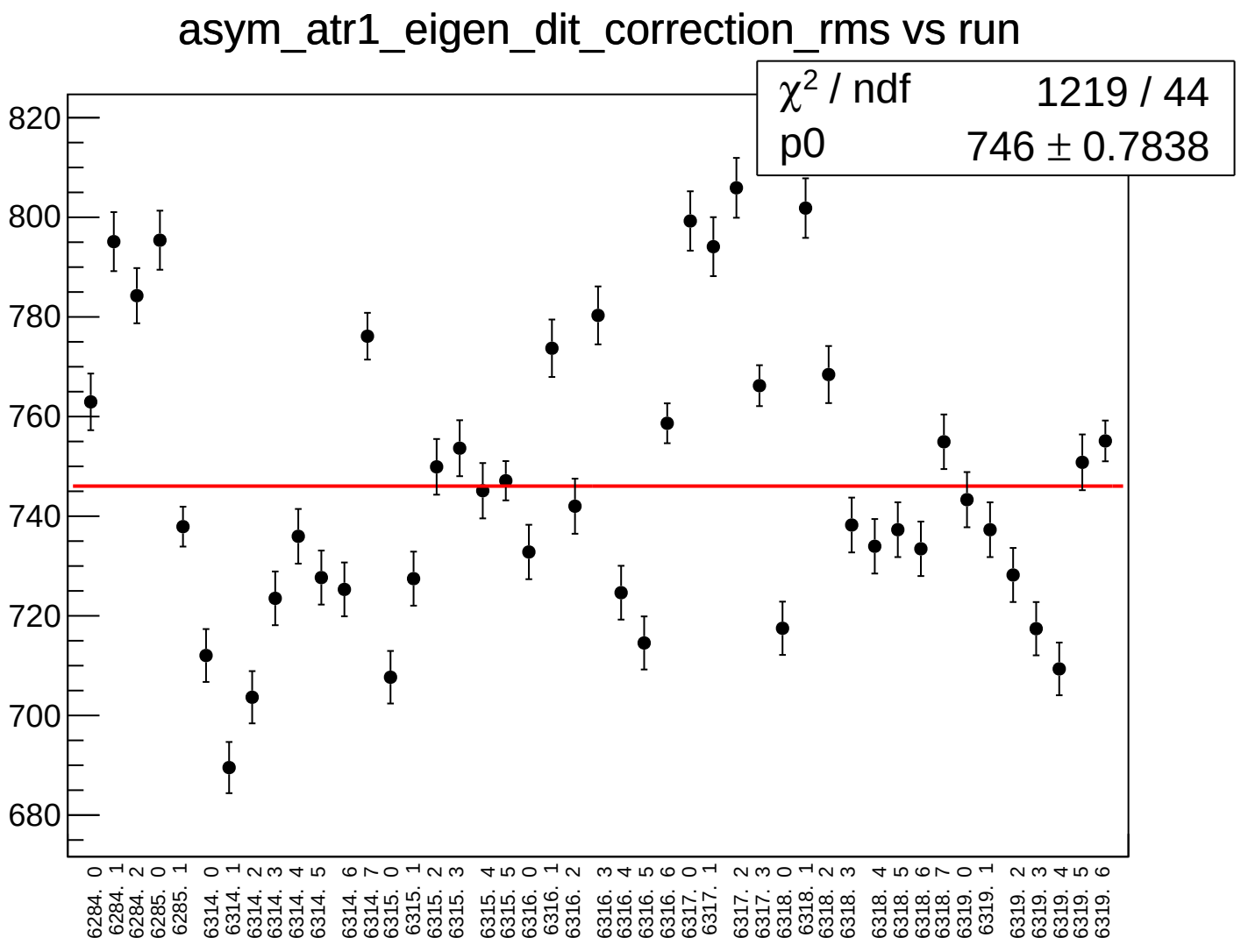
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −55.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01314
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1219 / 44
p0 746 ± 0.7838
820
800
780
760
740
720
700
680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 4
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6318. 7
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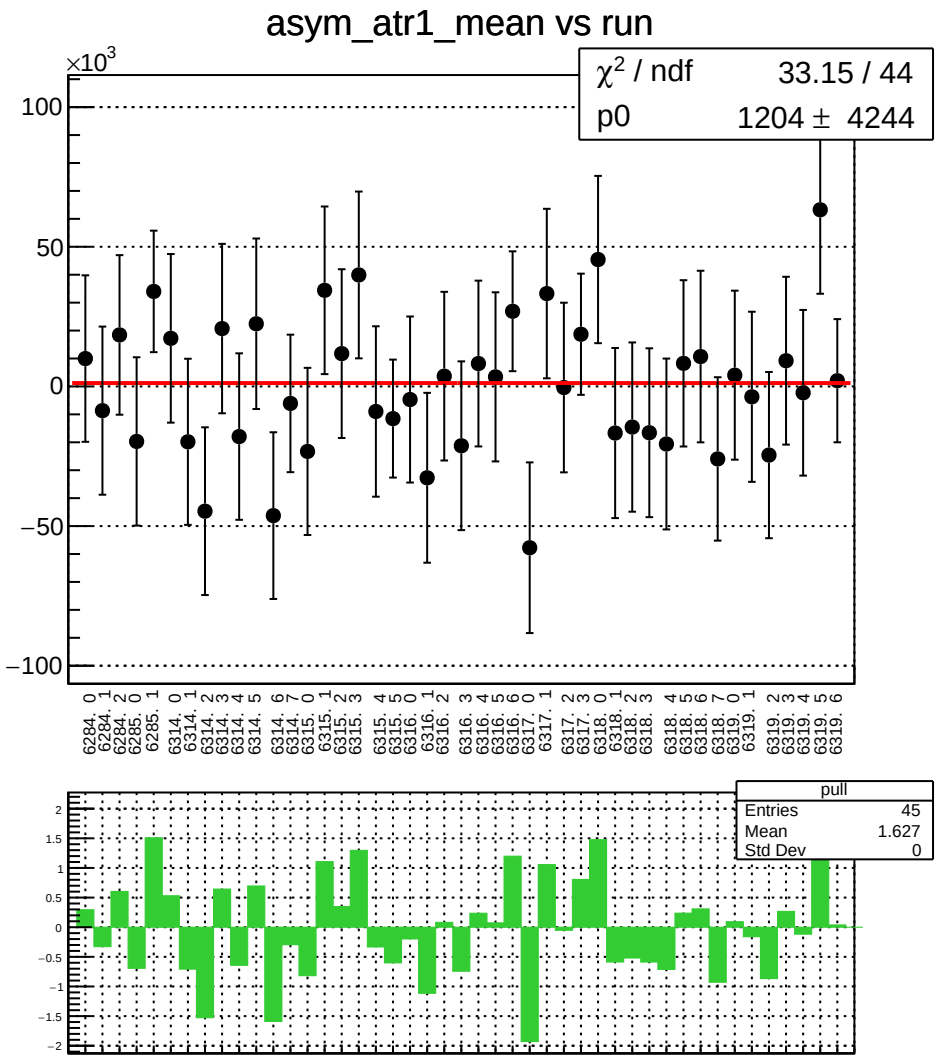
6319. 5
6319. 6


asym_atr1_mean vs run
×10^3
χ² / ndf 33.15 / 44
p0 1204 ± 4244
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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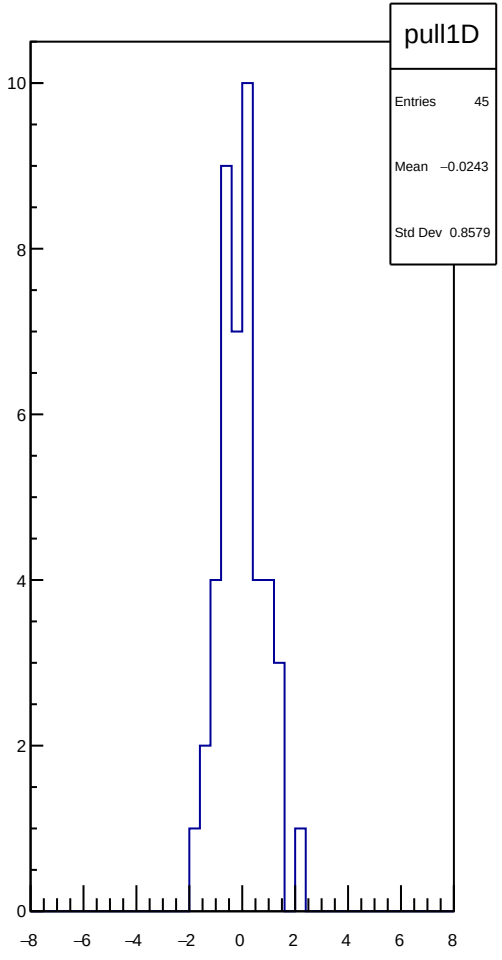
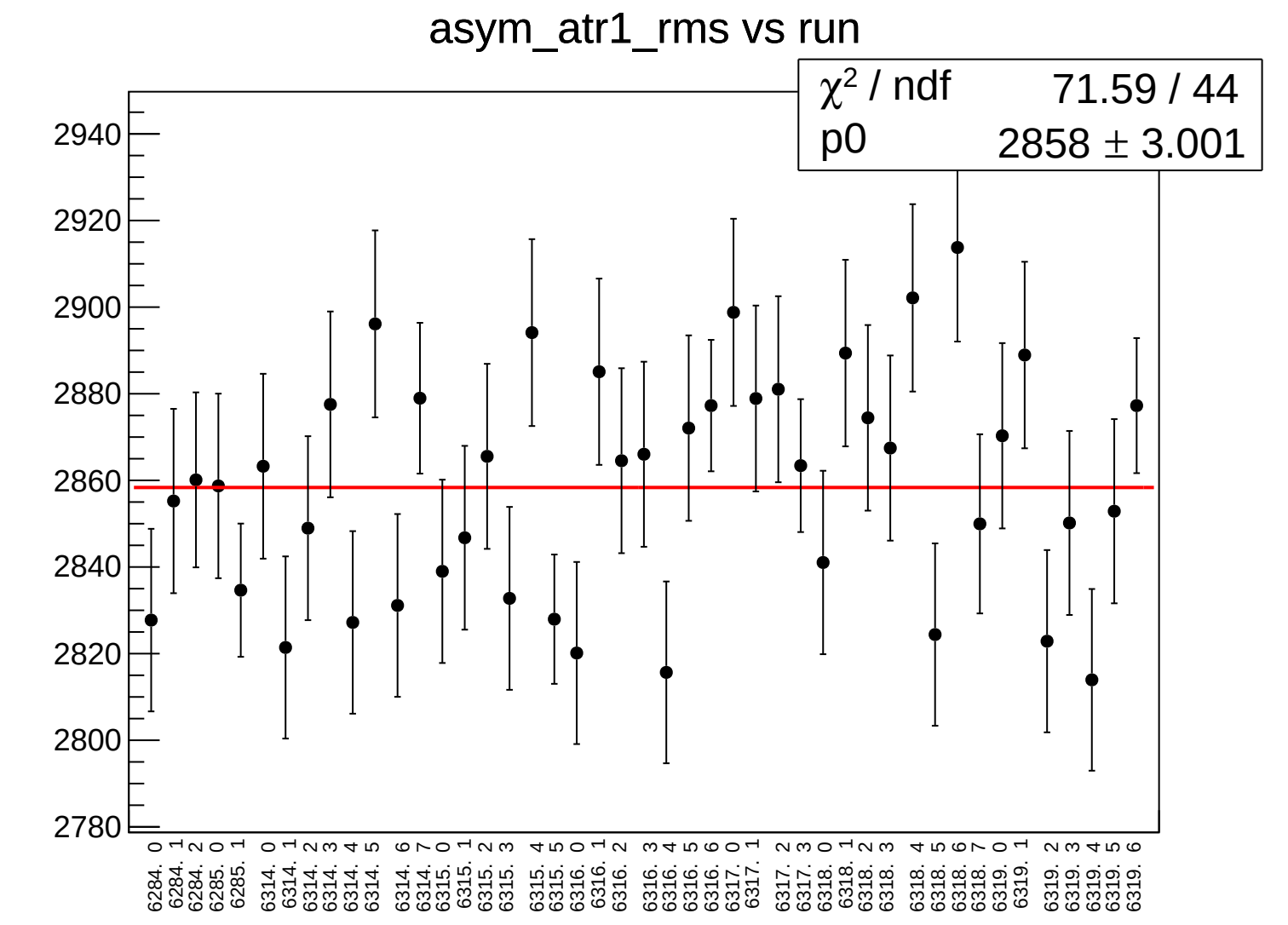
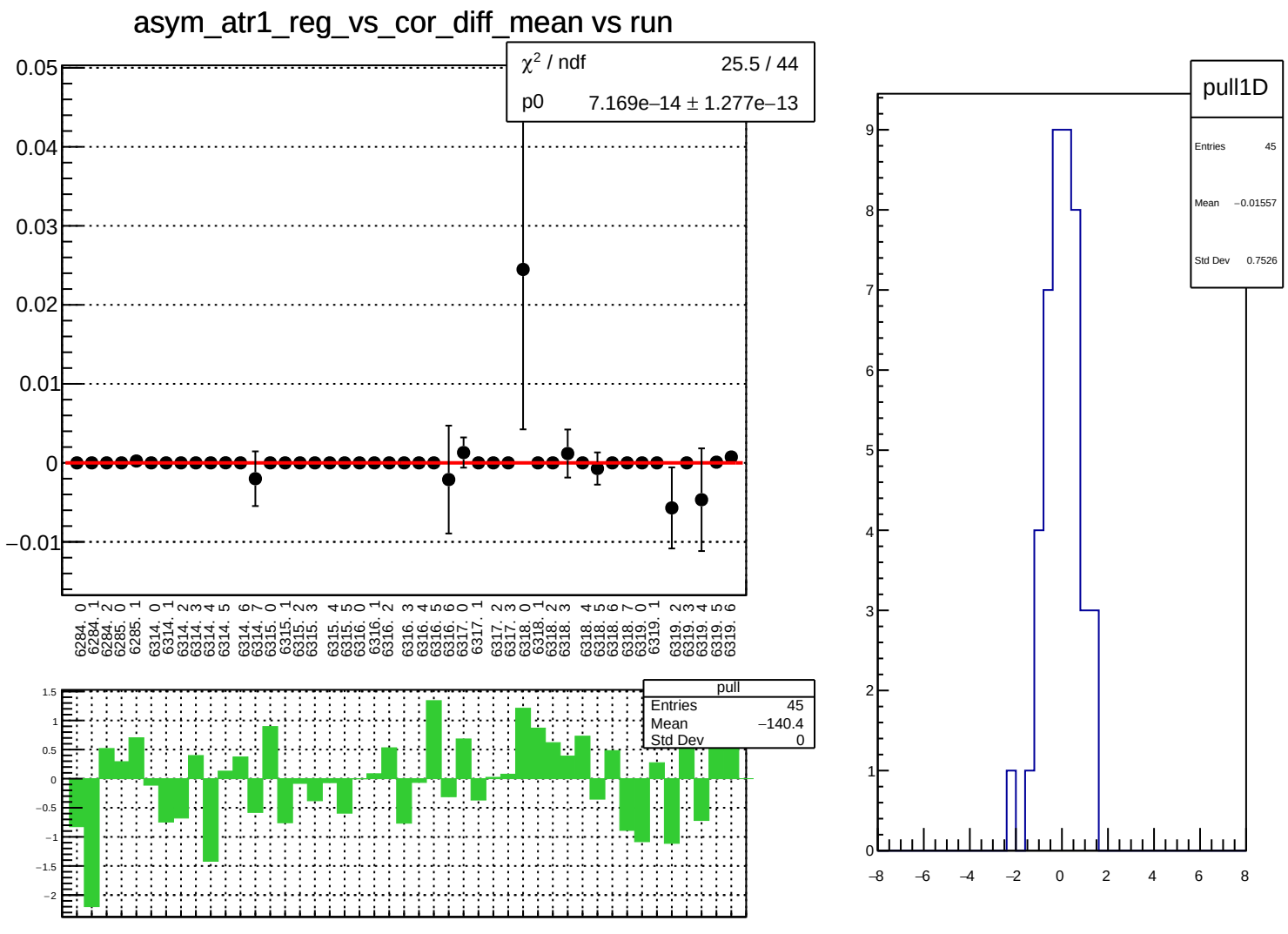
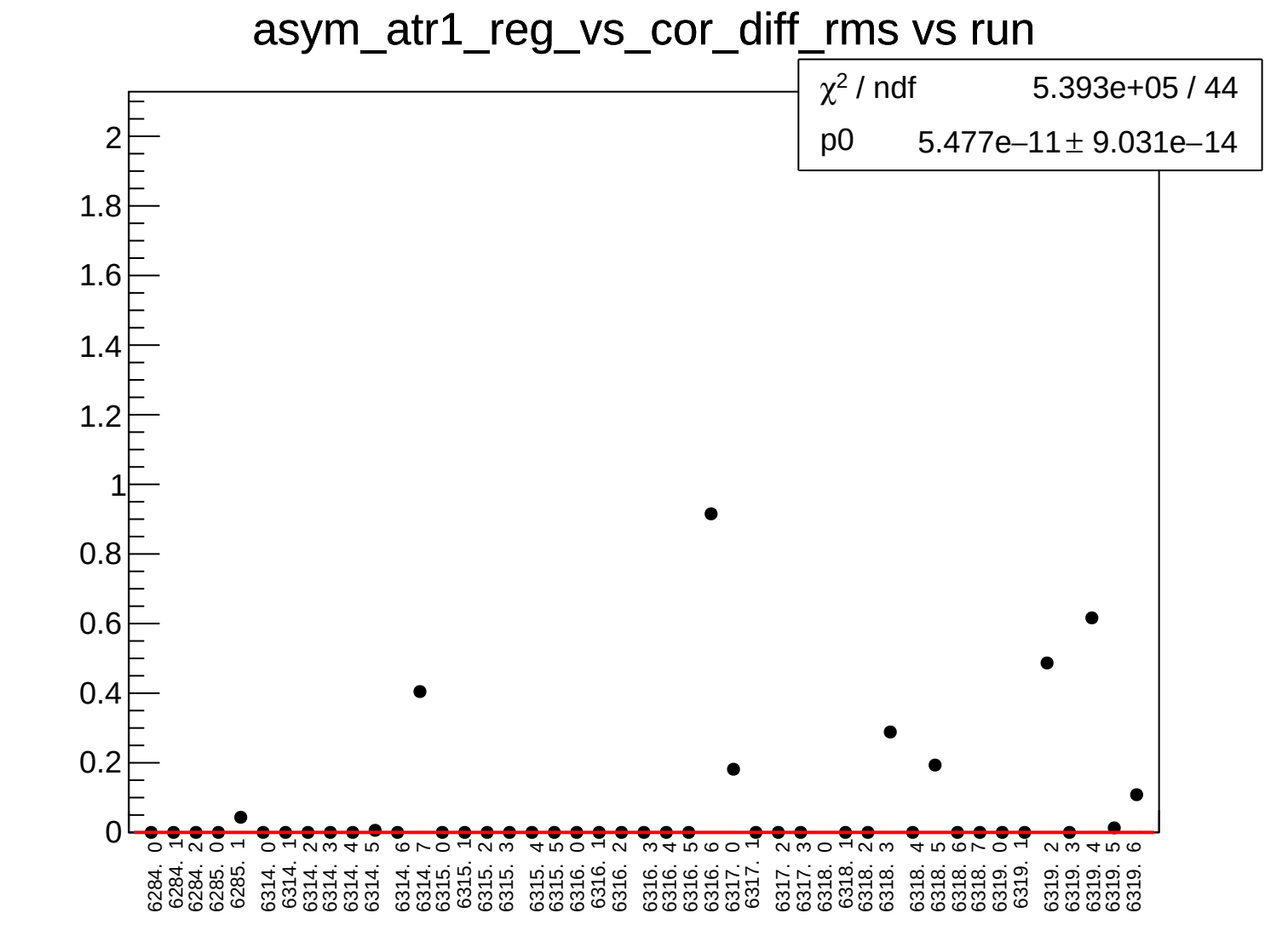
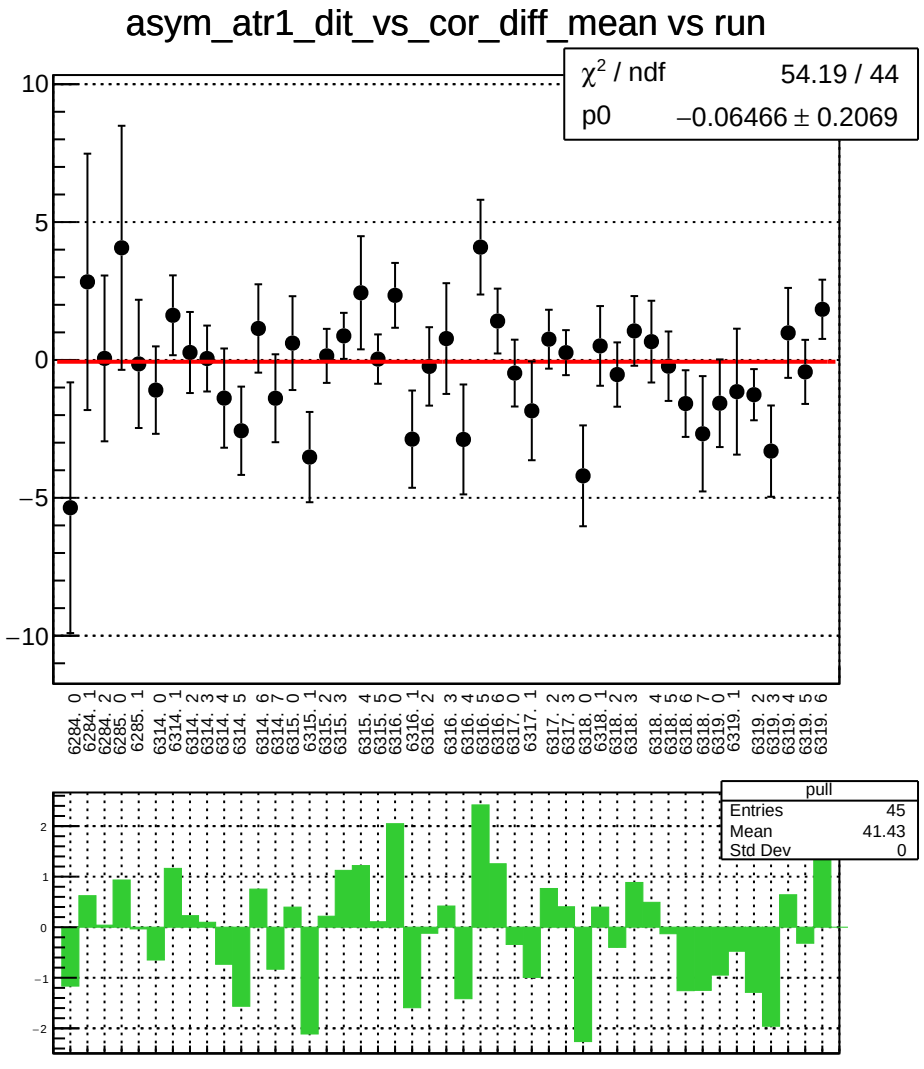
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.627
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

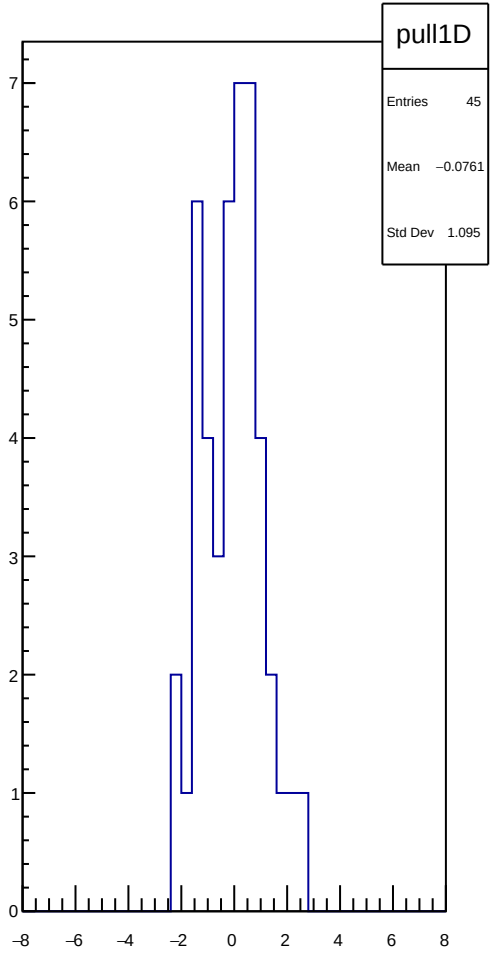

pull1D
Entries 45
Mean −0.0243
Std Dev 0.8579
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

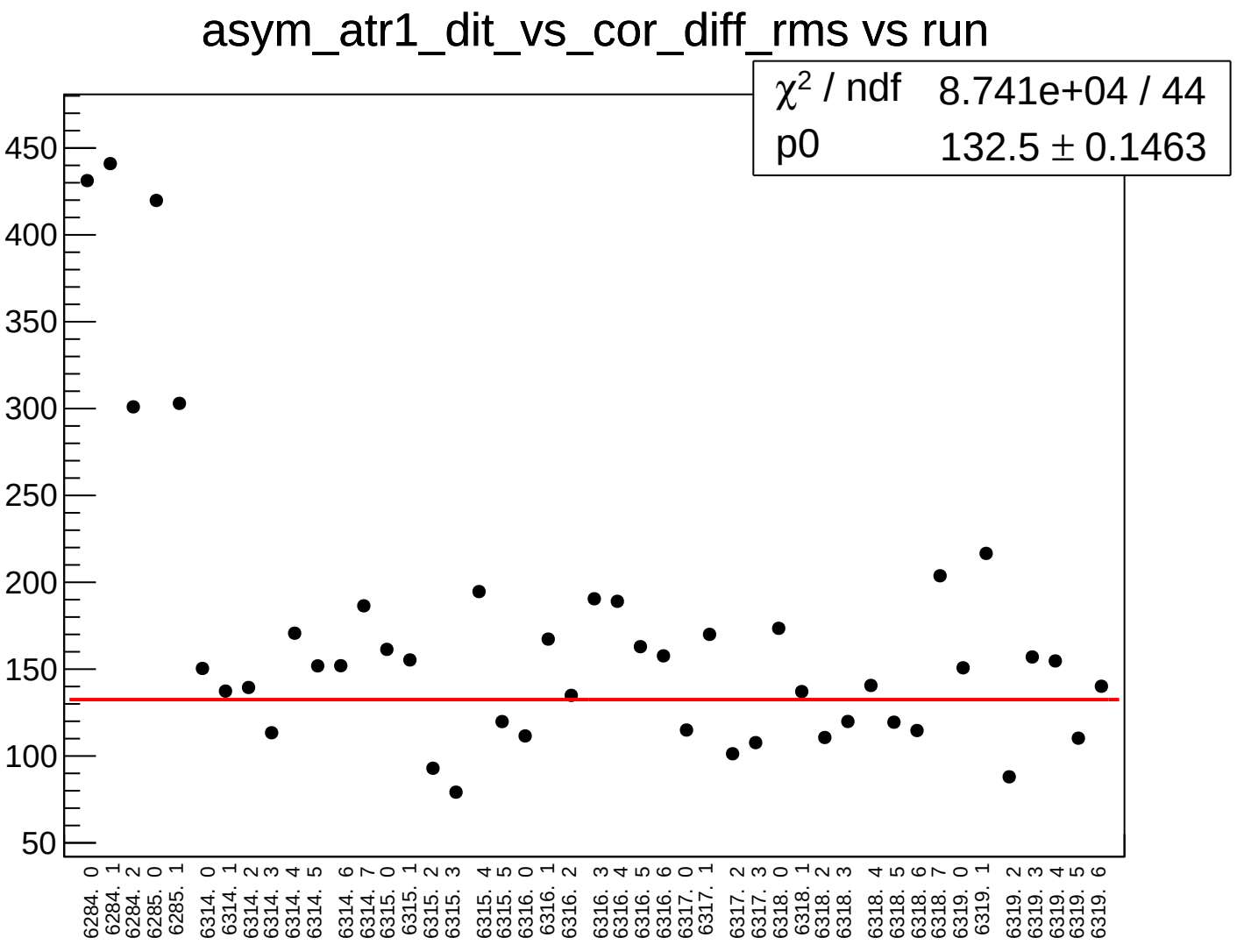

asym_atr1_rms vs run
χ^2 / ndf 71.59 / 44
p0 2858 ± 3.001
2940
2920
2900
2880
2860
2840
2820
2800
2780
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

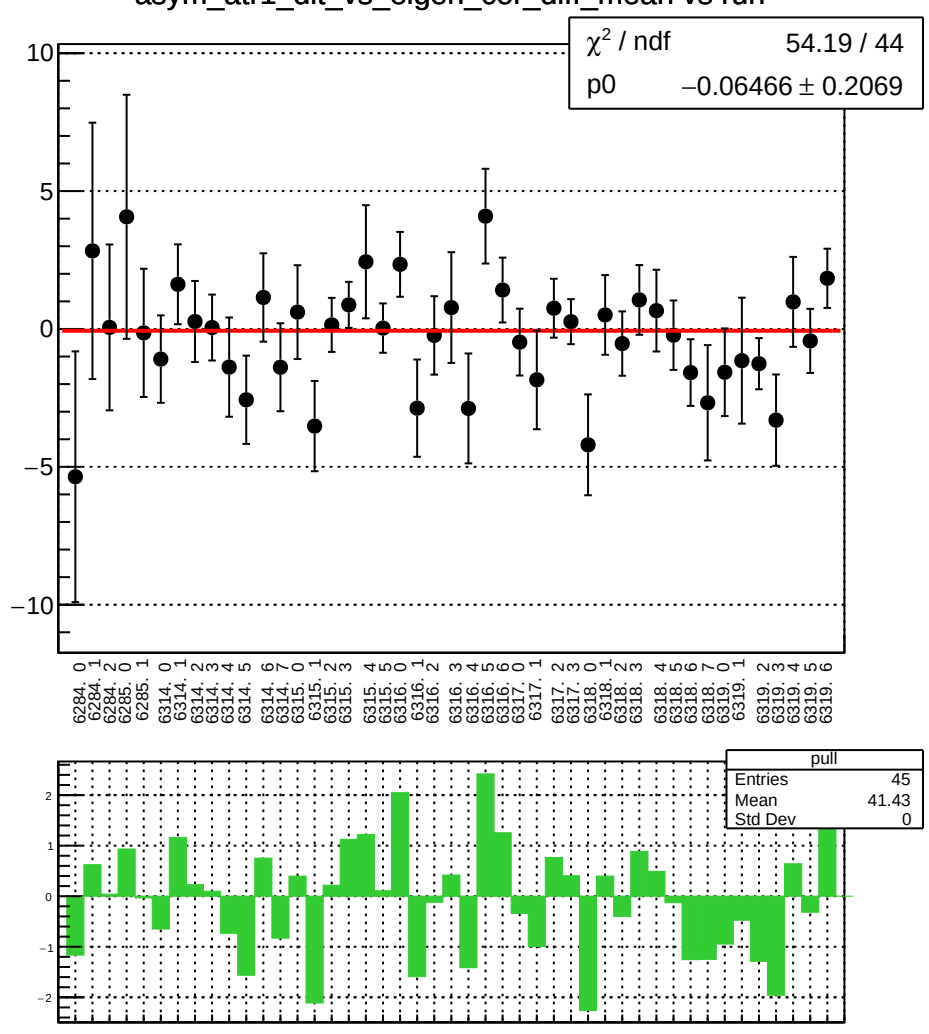

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 25.5 / 44
p0 7.169e−14 ± 1.277e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −140.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01557
Std Dev 0.7526
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

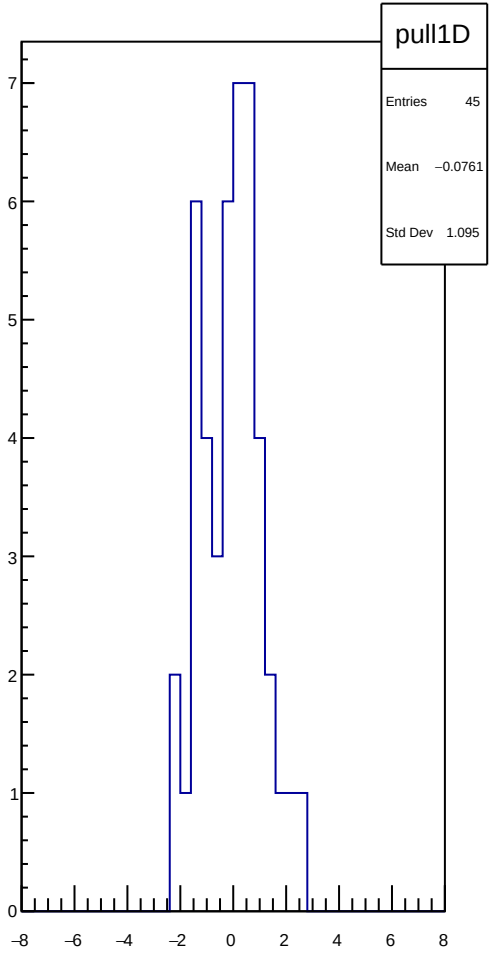

asym_atr1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 5.393e+05 / 44
p0 5.477e−11 ± 9.031e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

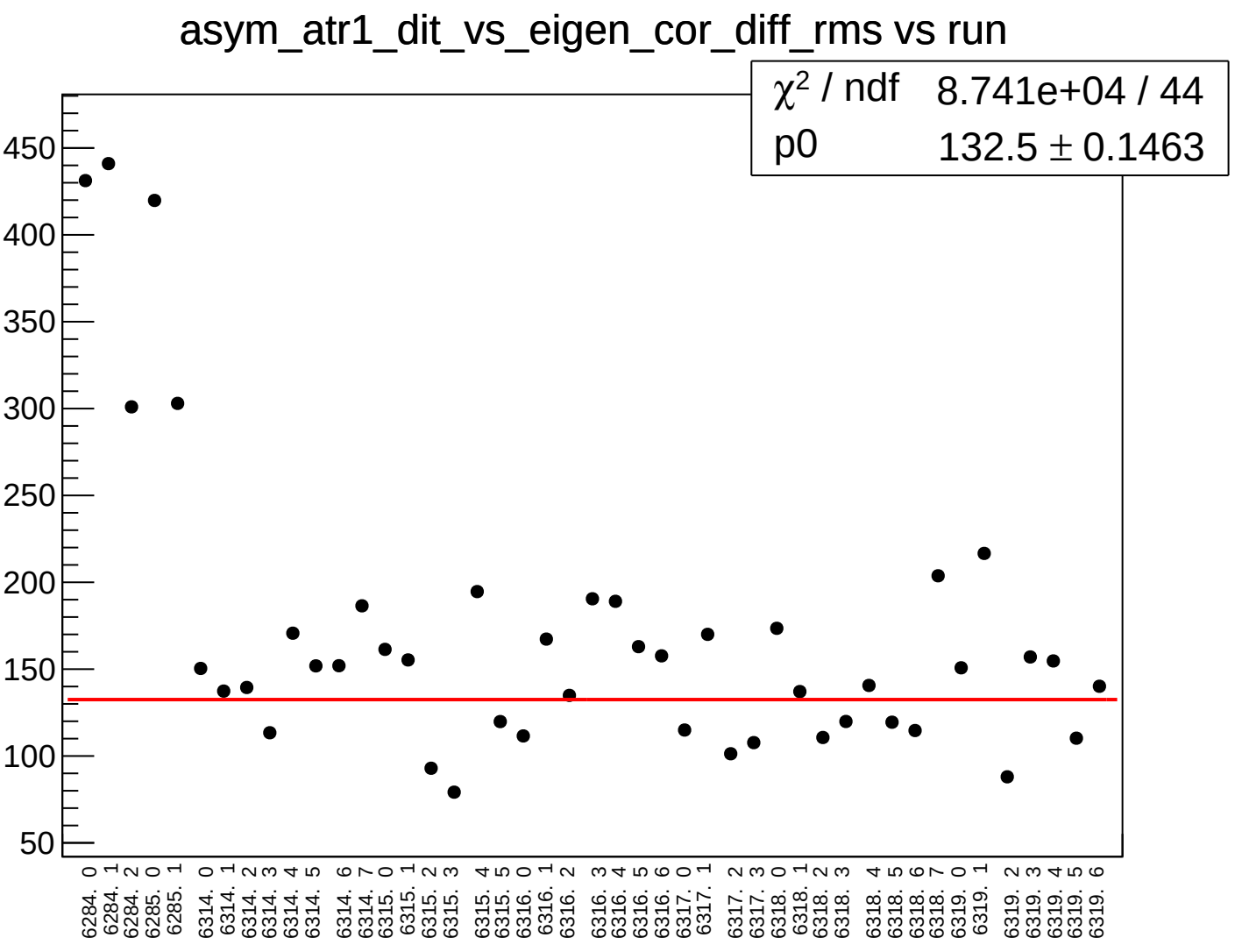

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 54.19 / 44
p0 −0.06466 ± 0.2069
pull
Entries 45
Mean 41.43
Std Dev 0

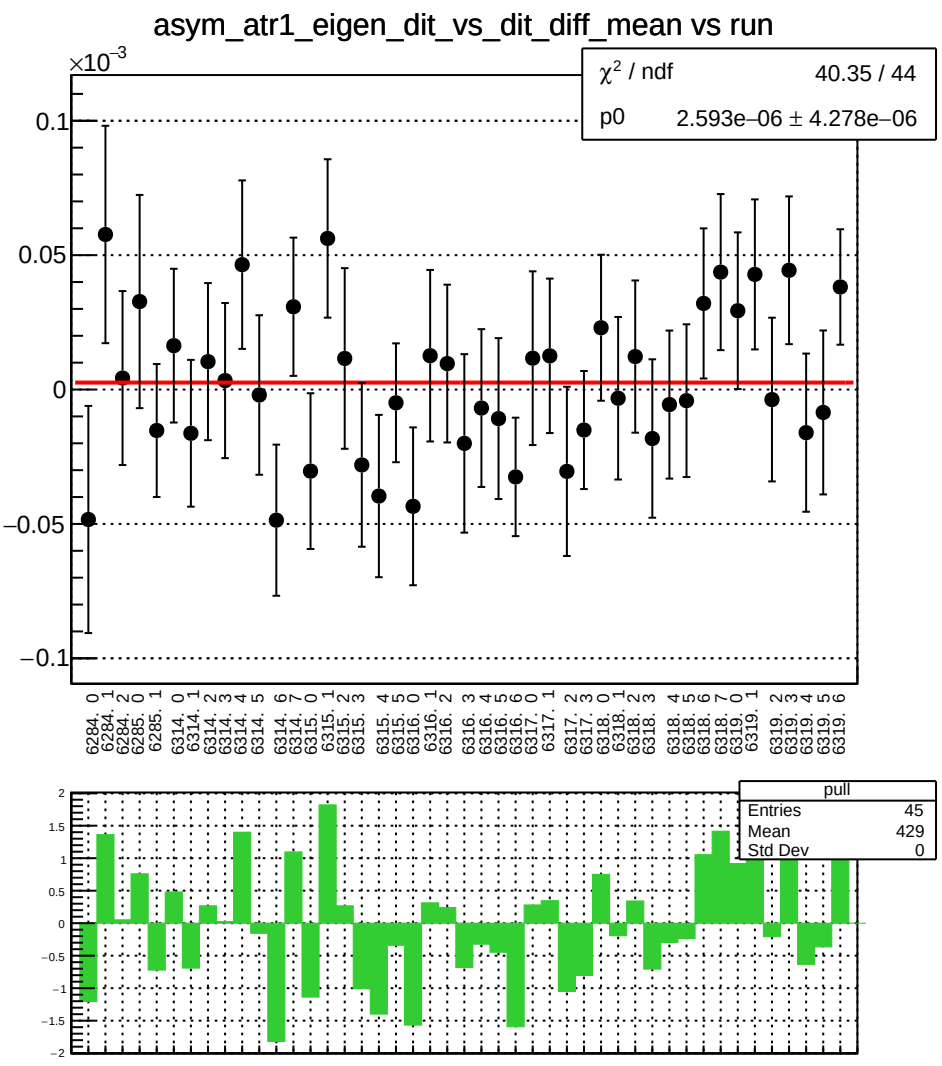

pull1D
Entries 45
Mean −0.0761
Std Dev 1.095

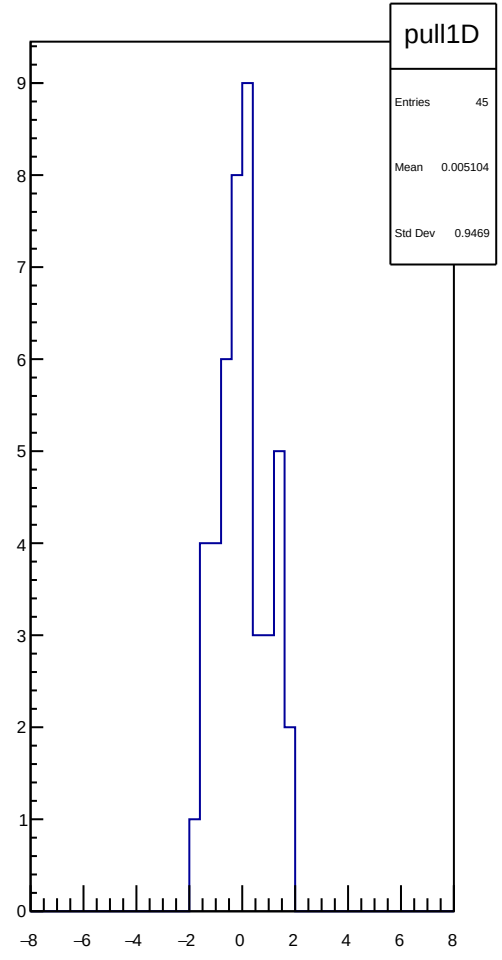

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 8.741e+04 / 44
p0 132.5 ± 0.1463
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

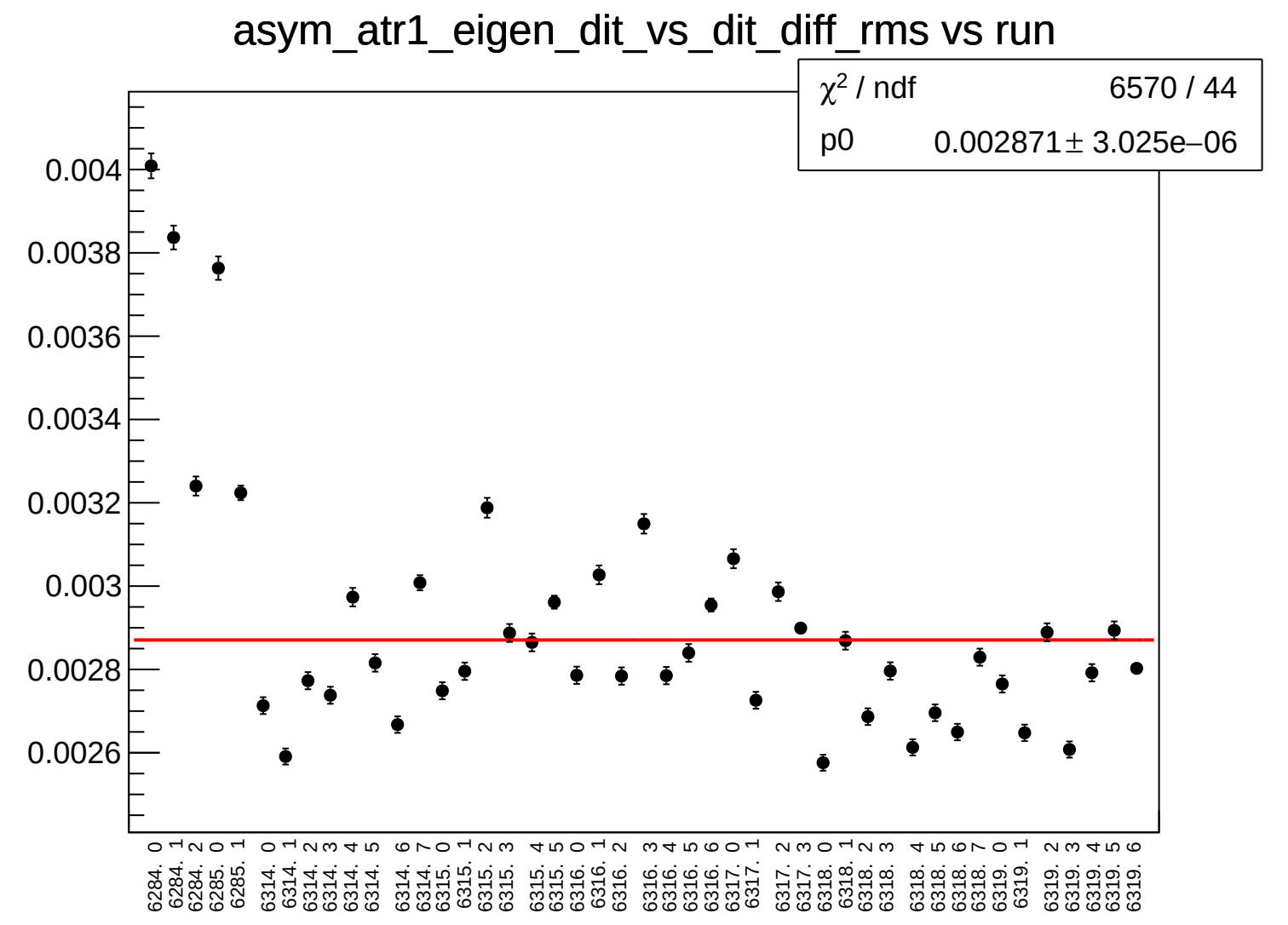

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.19 / 44
p0 −0.06466 ± 0.2069
pull
Entries 45
Mean 41.43
Std Dev 0

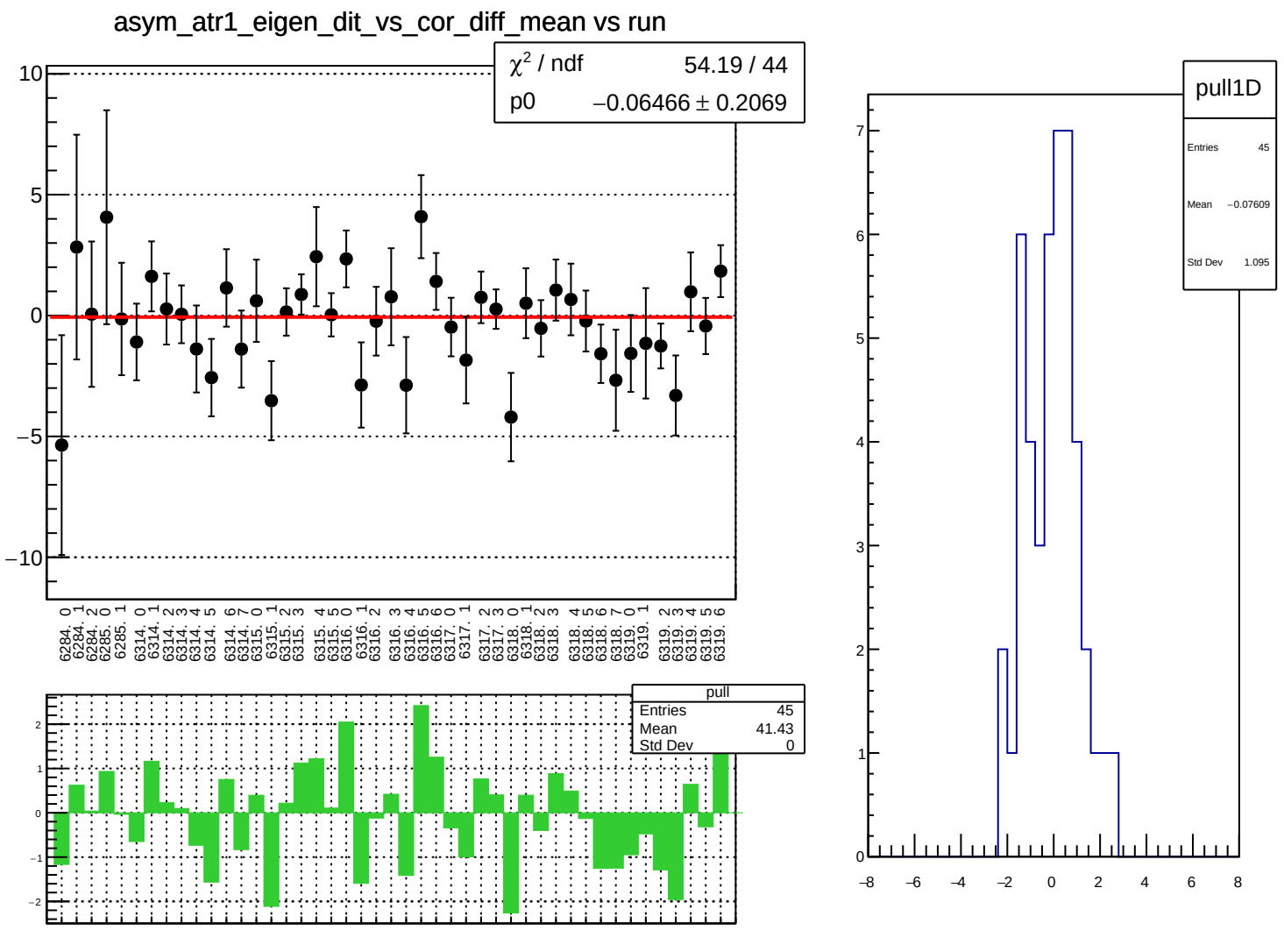

pull1D
Entries 45
Mean −0.0761
Std Dev 1.095

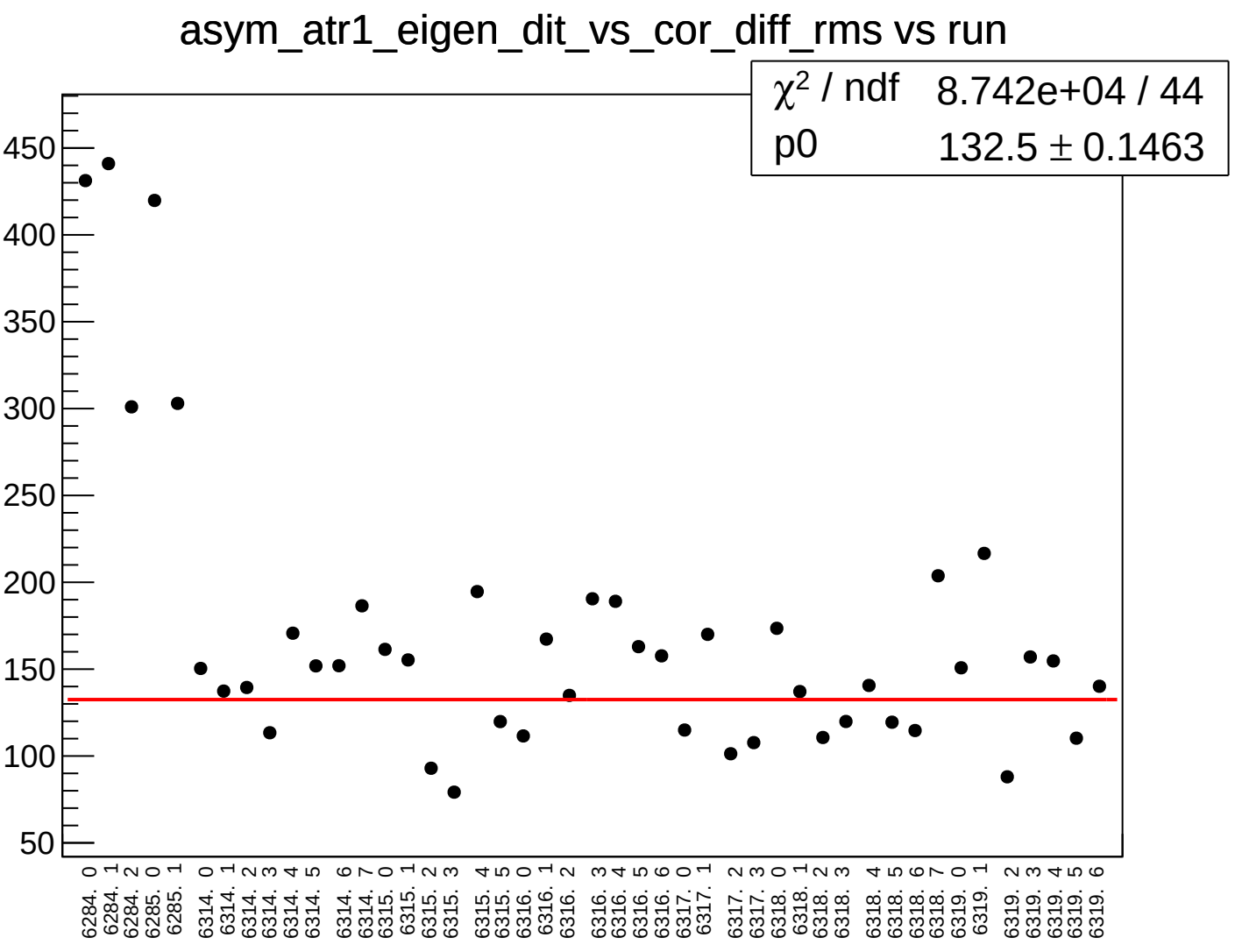

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.741e+04 / 44
p0 132.5 ± 0.1463
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.35 / 44
p0 2.593e−06 ± 4.278e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 429
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.005104
Std Dev 0.9469
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 6570 / 44
p0 0.002871 ± 3.025e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.19 / 44
p0 −0.06466 ± 0.2069
pull
Entries 45
Mean 41.43
Std Dev 0
pull1D
Entries 45
Mean −0.07609
Std Dev 1.095


asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.742e+04 / 44
p0 132.5 ± 0.1463
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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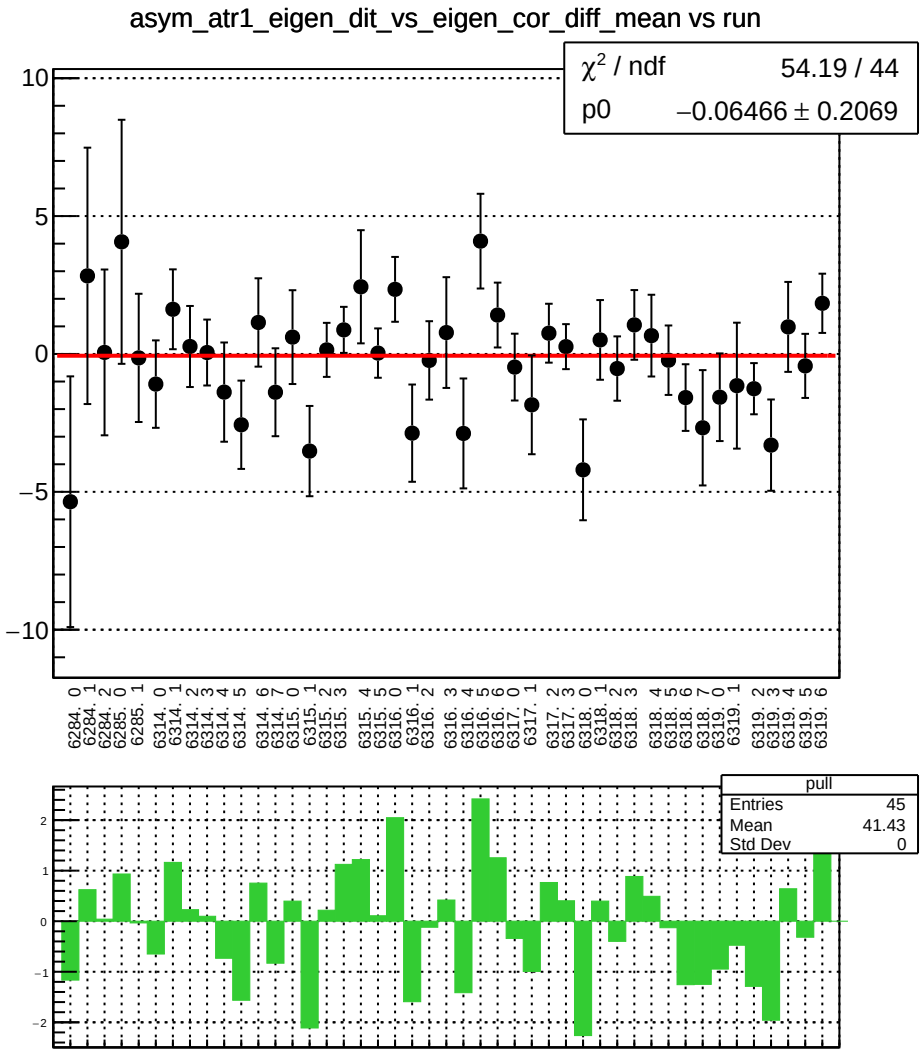
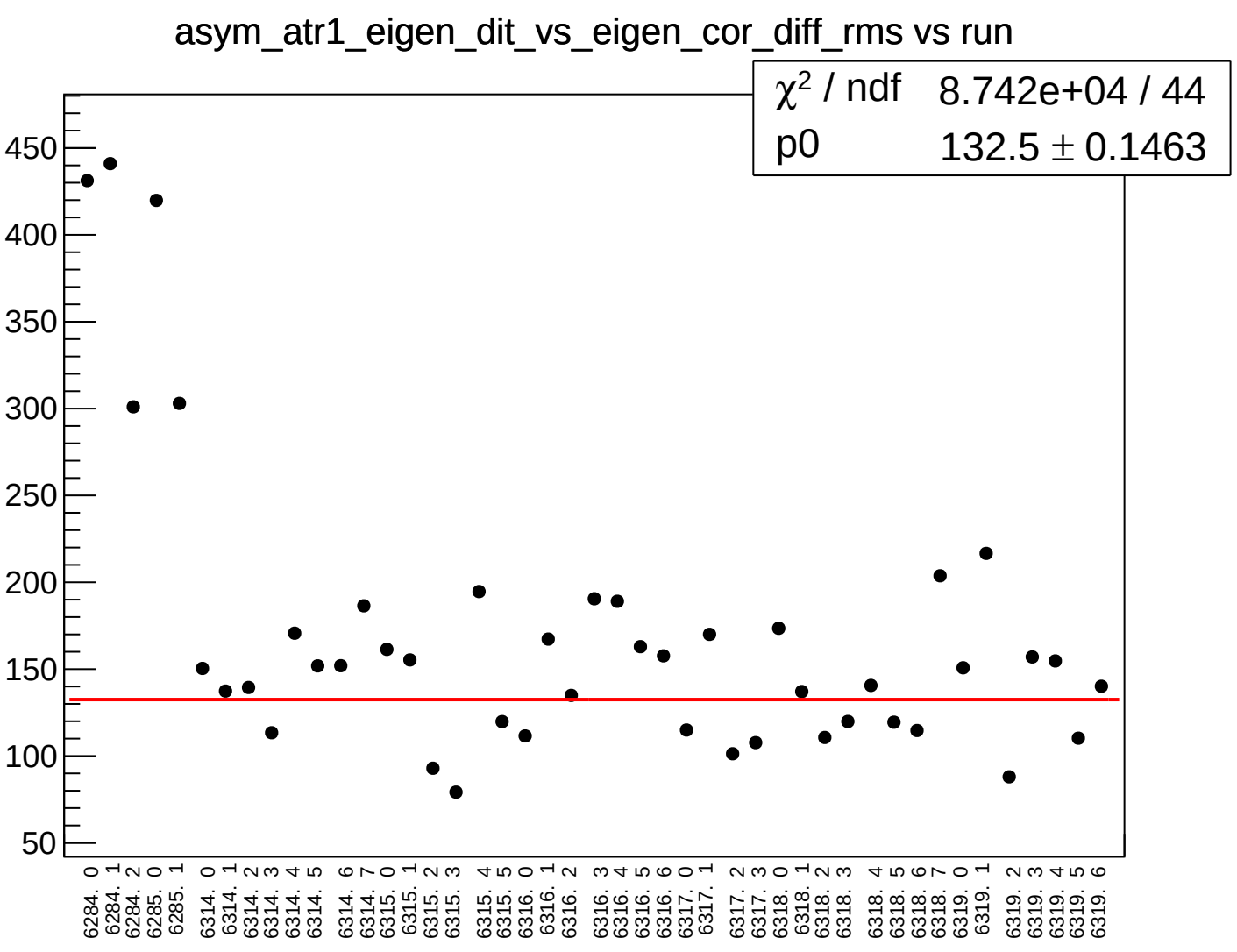
6319. 5
6319. 6


asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.19 / 44
p0 −0.06466 ± 0.2069
pull
Entries 45
Mean 41.43
Std Dev 0
pull1D
Entries 45
Mean −0.07609
Std Dev 1.095


asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.742e+04 / 44
p0 132.5 ± 0.1463
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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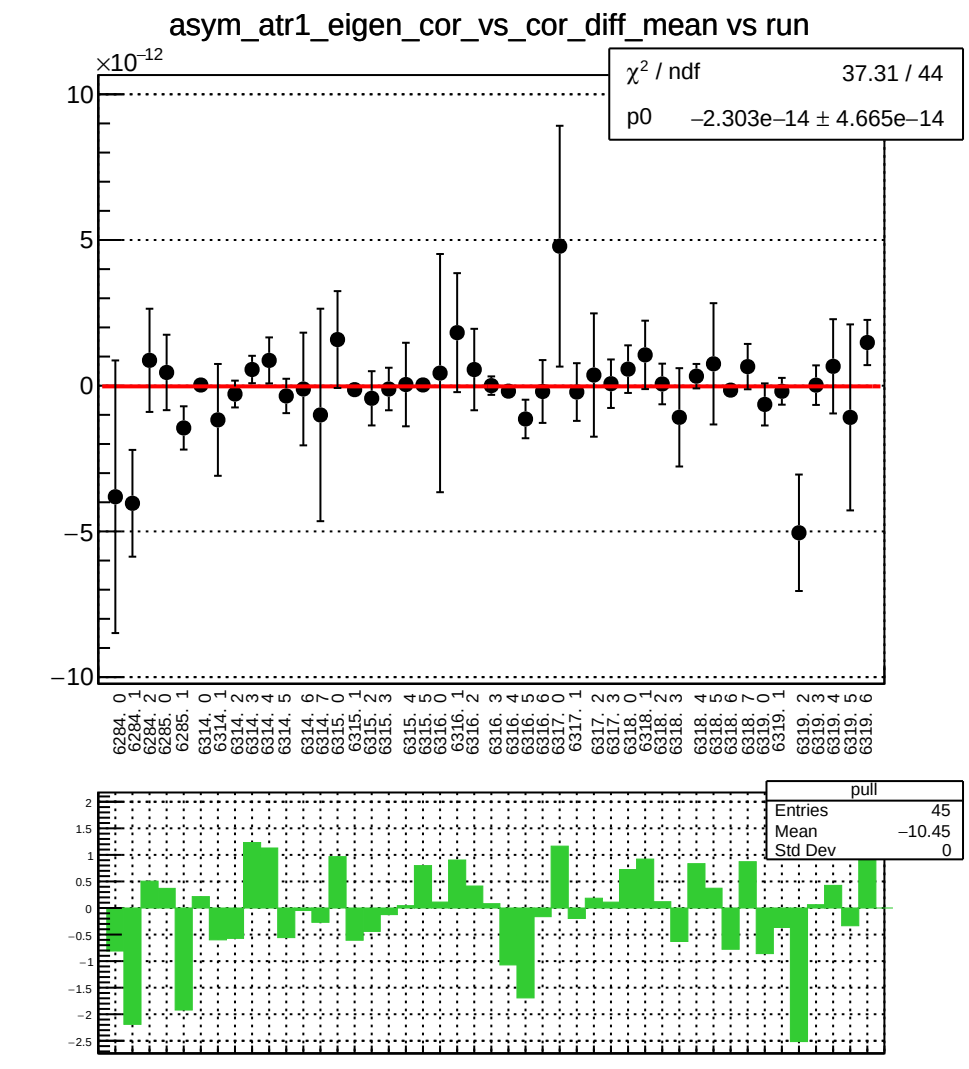
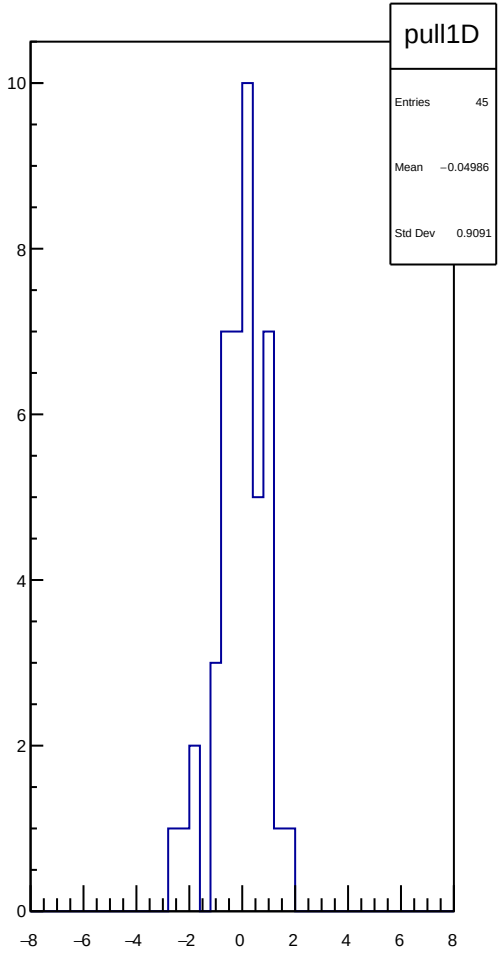
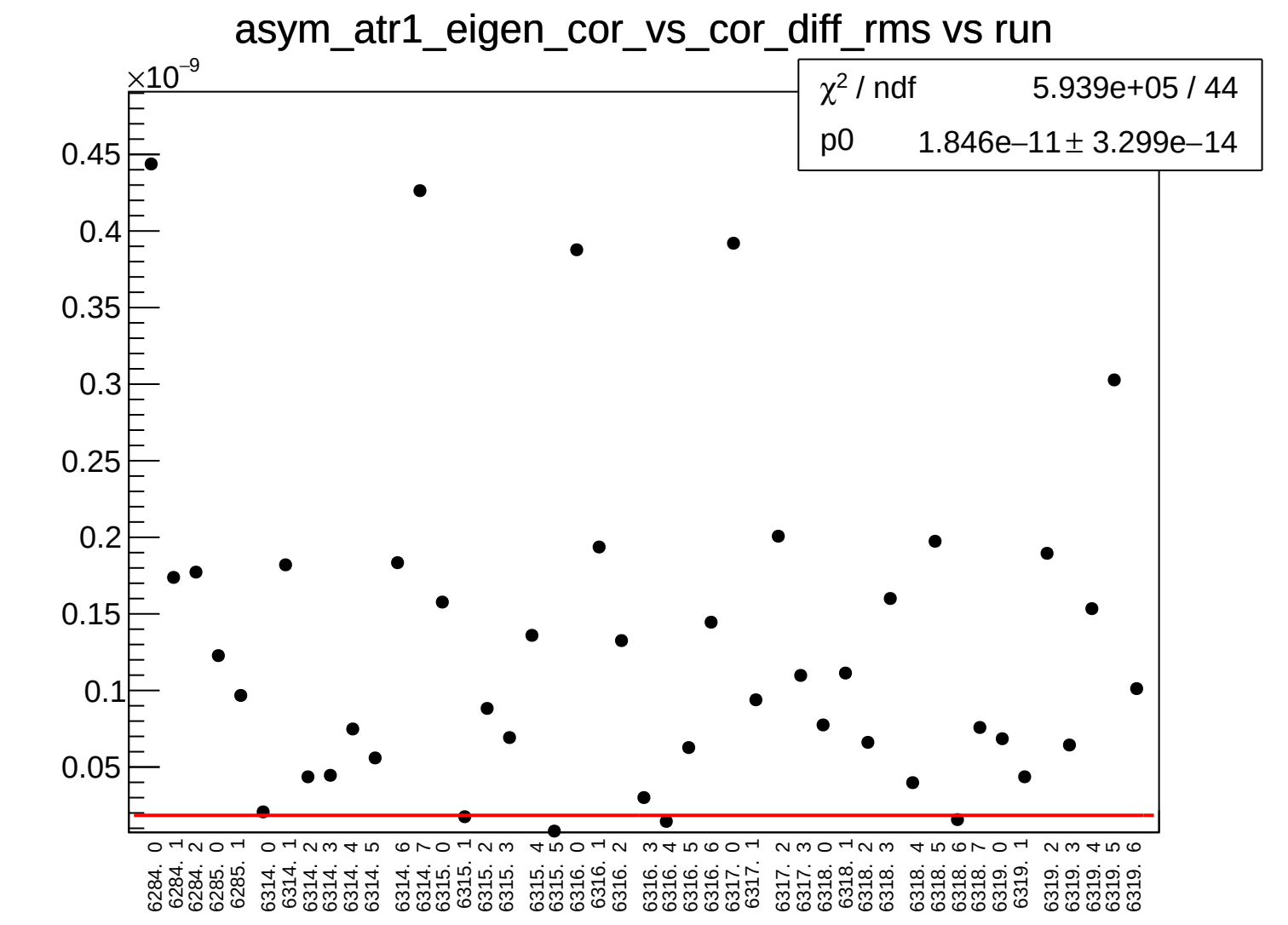
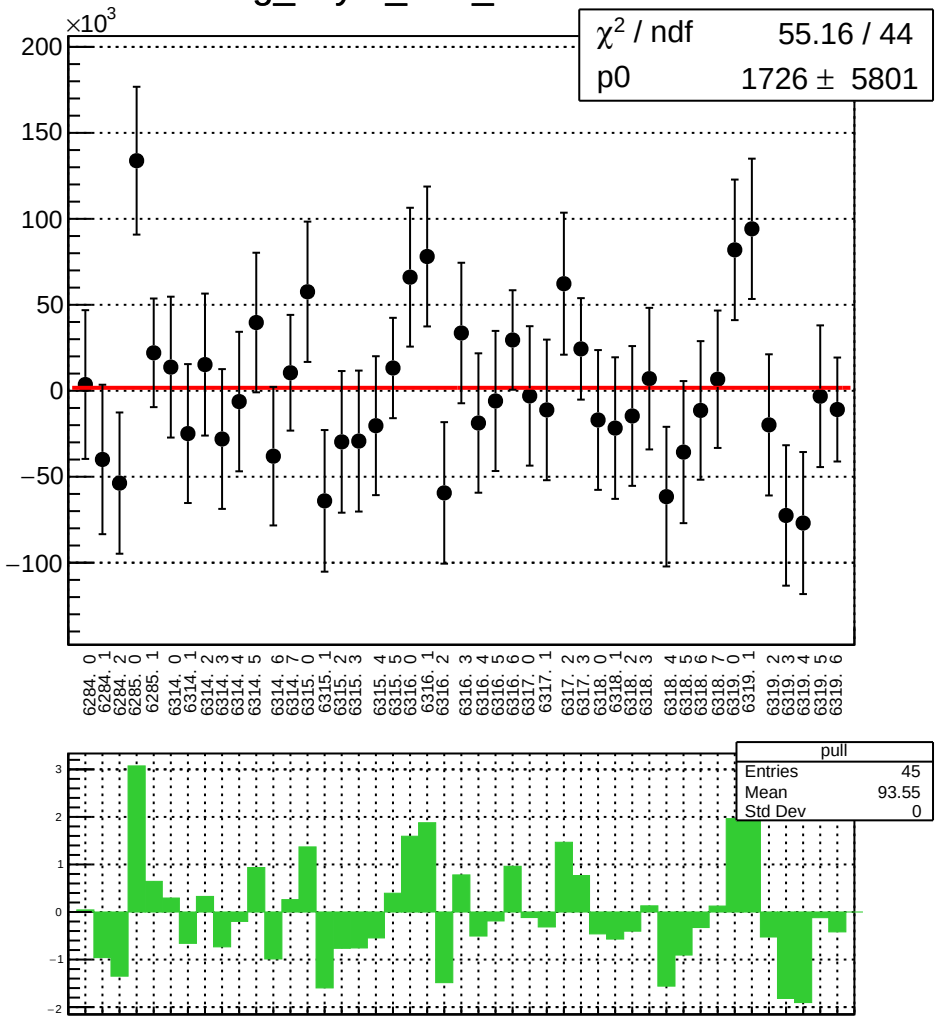
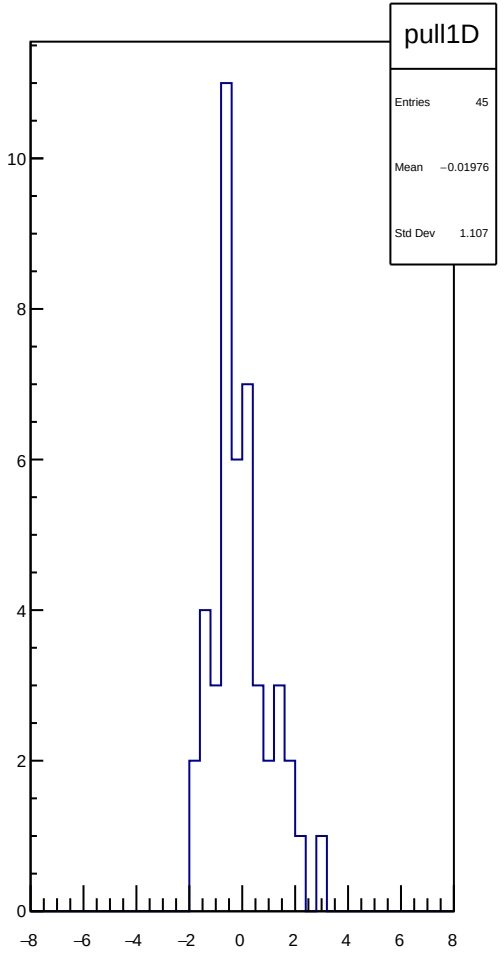
6319. 5
6319. 6

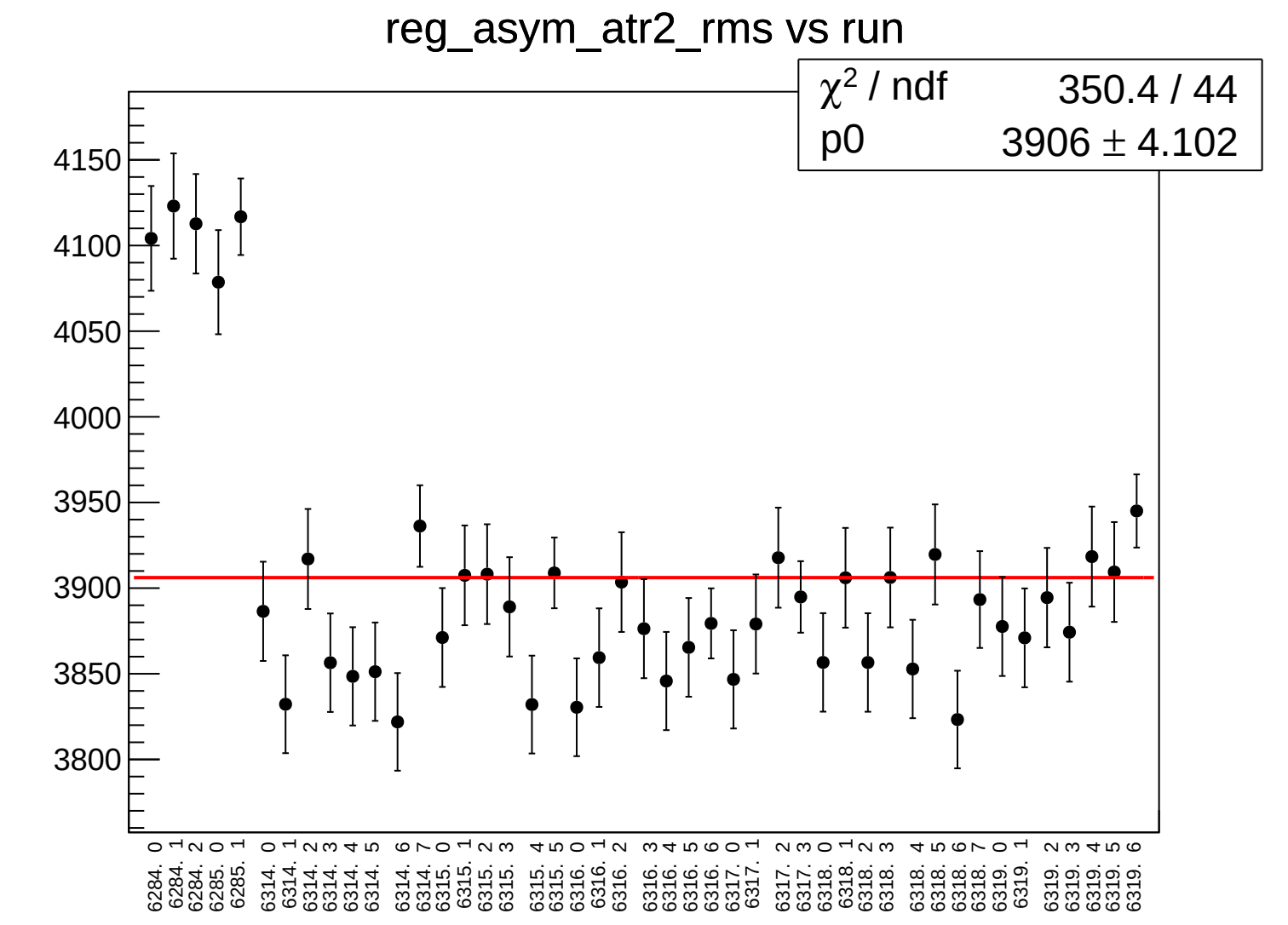

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.31 / 44
p0 −2.303e−14 ± 4.665e−14
pull
Entries 45
Mean −10.45
Std Dev 0


pull1D
Entries 45
Mean −0.04986
Std Dev 0.9091


asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.939e+05 / 44
p0 1.846e−11 ± 3.299e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atr2_mean vs run
×10^3
χ² / ndf 55.16 / 44
p0 1726 ± 5801
pull
Entries 45
Mean 93.55
Std Dev 0


pull1D
Entries 45
Mean −0.01976
Std Dev 1.107


reg_asym_atr2_rms vs run
χ² / ndf 350.4 / 44
p0 3906 ± 4.102
4150
4100
4050
4000
3950
3900
3850
3800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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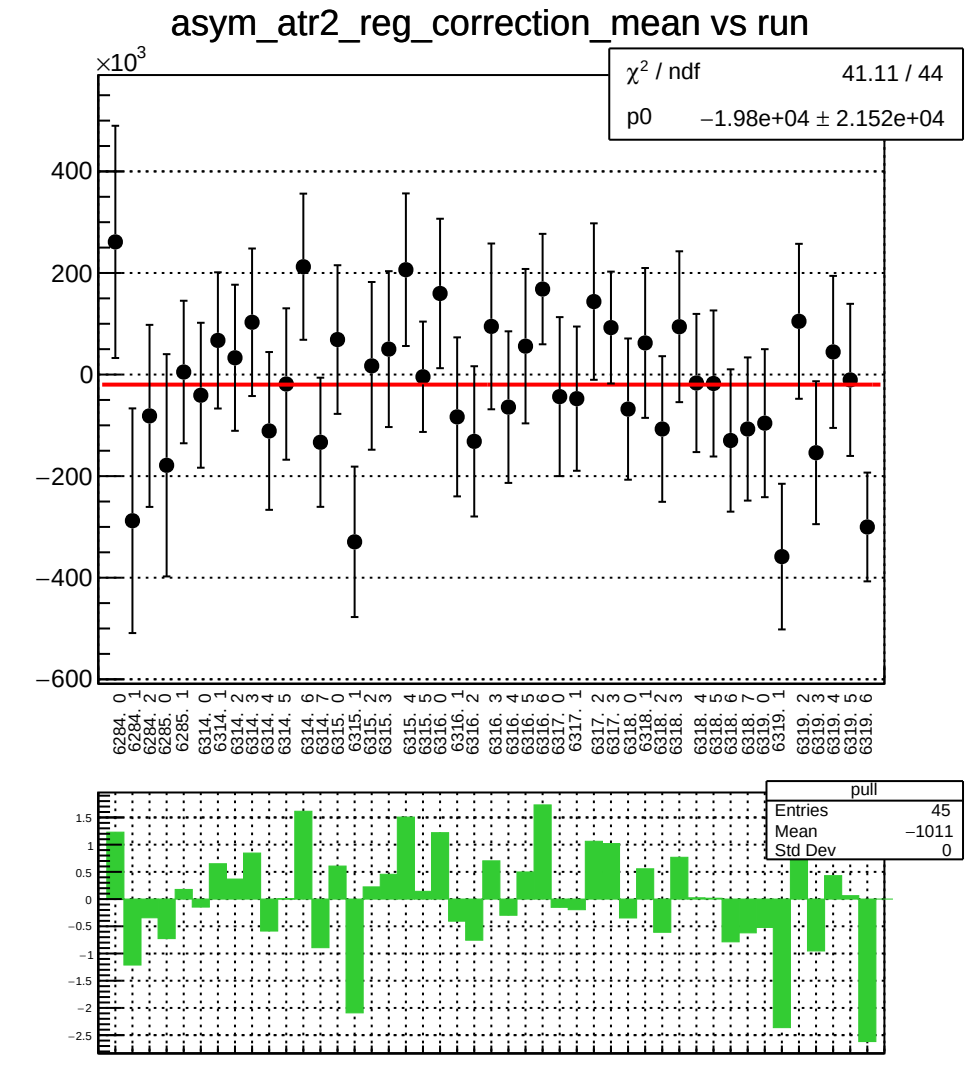
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 −1.98e+04 ± 2.152e+04
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
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6315. 0
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6316. 0
6316. 1
6316. 2
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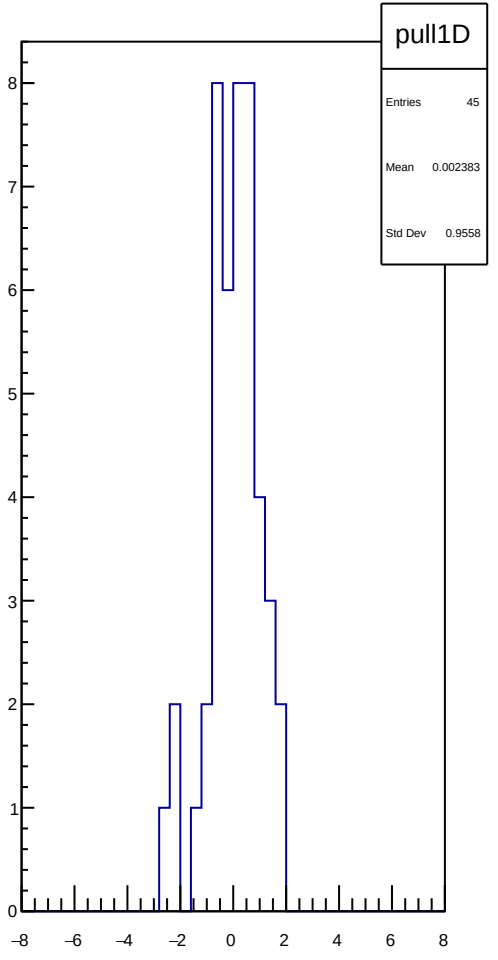
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1011
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002383
Std Dev 0.9558
8
7
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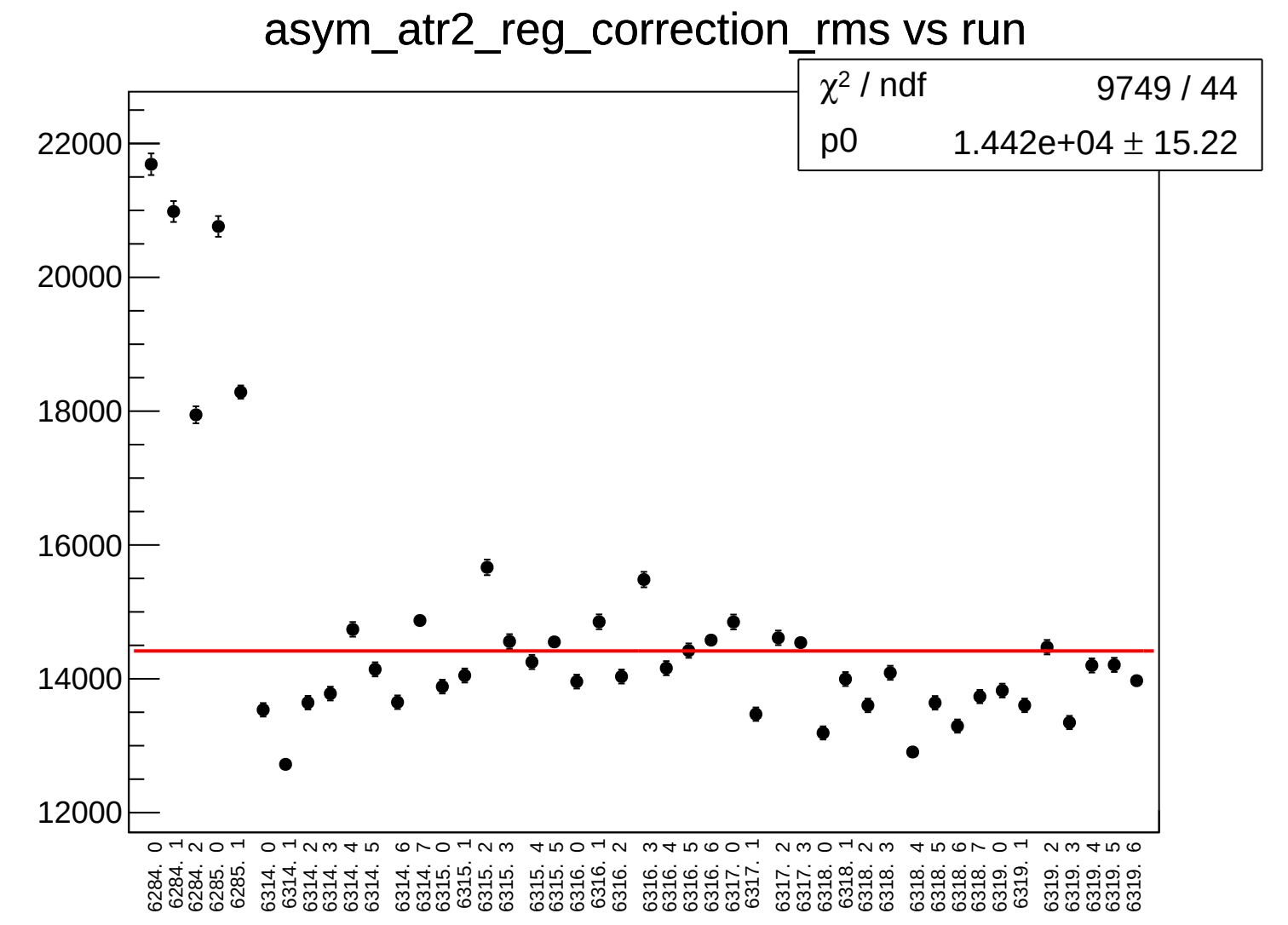
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_correction_rms vs run
χ² / ndf 9749 / 44
p0 1.442e+04 ± 15.22
22000
20000
18000
16000
14000
12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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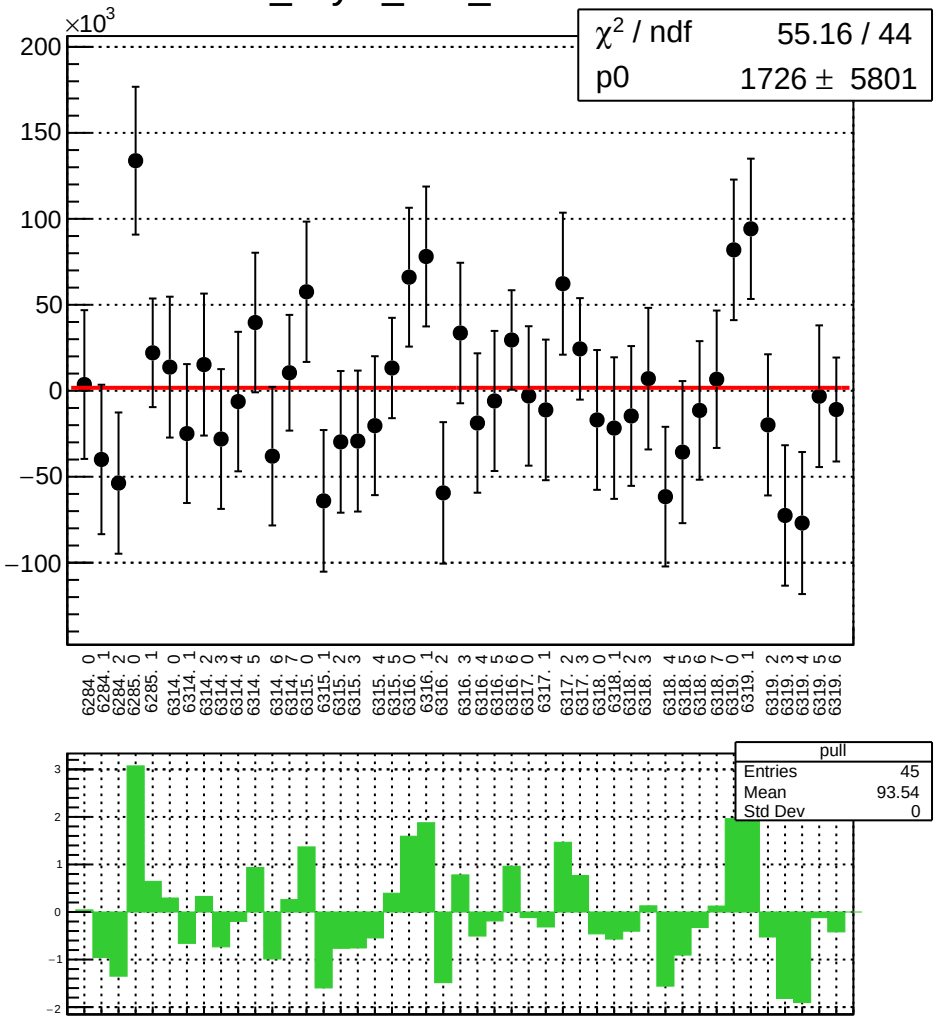
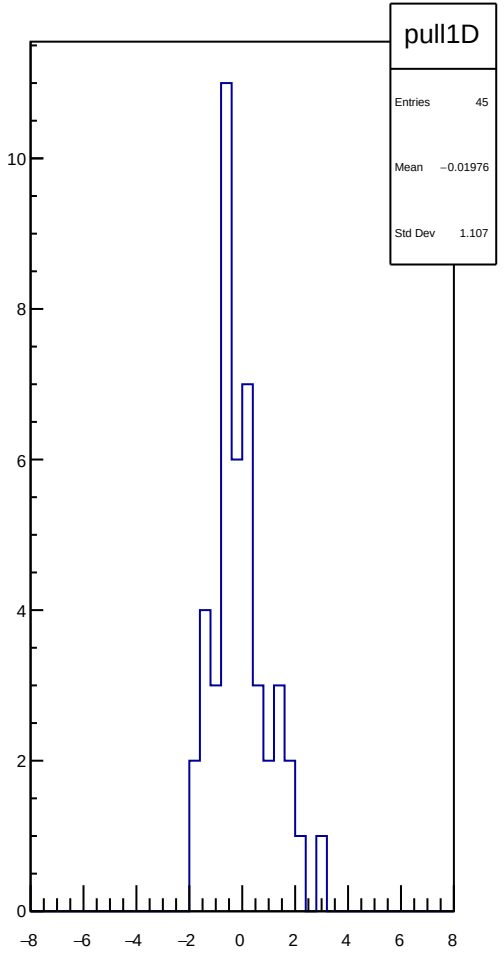
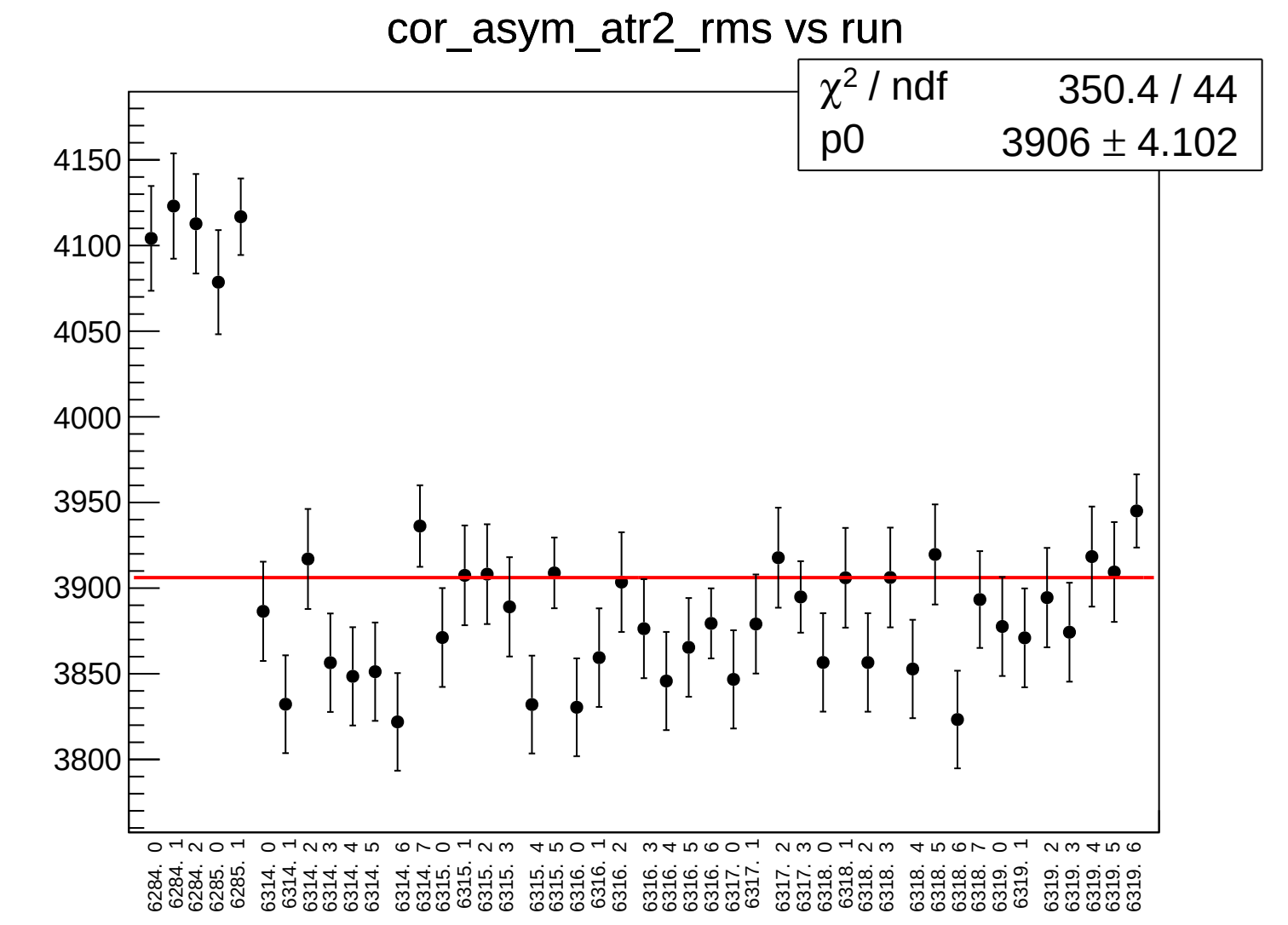
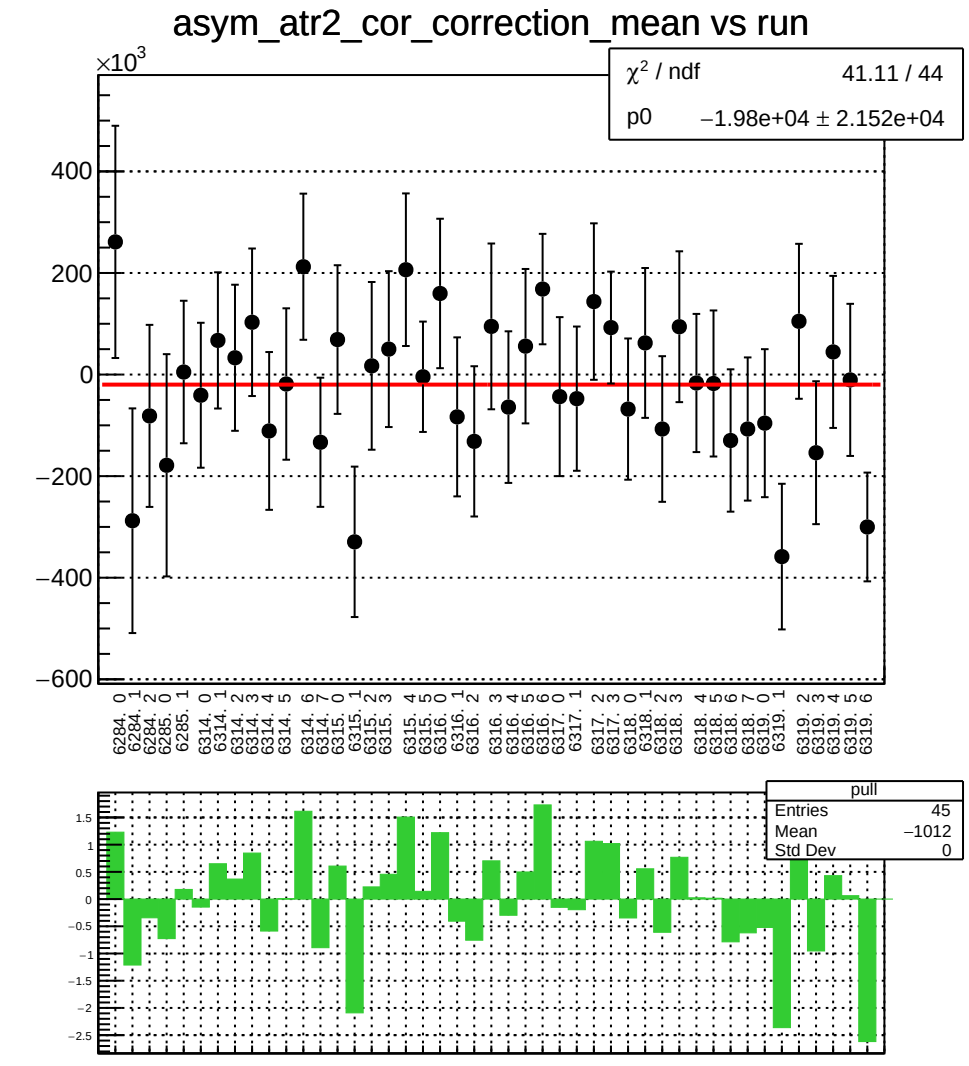
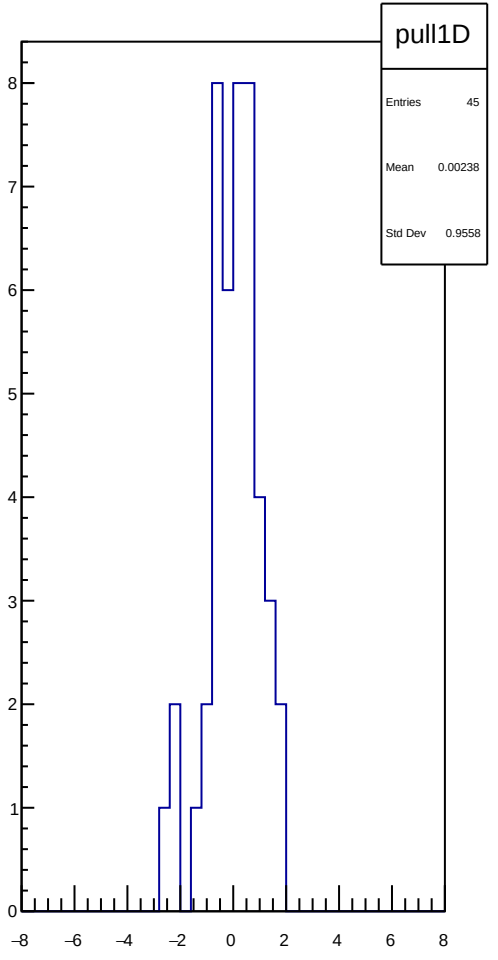
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

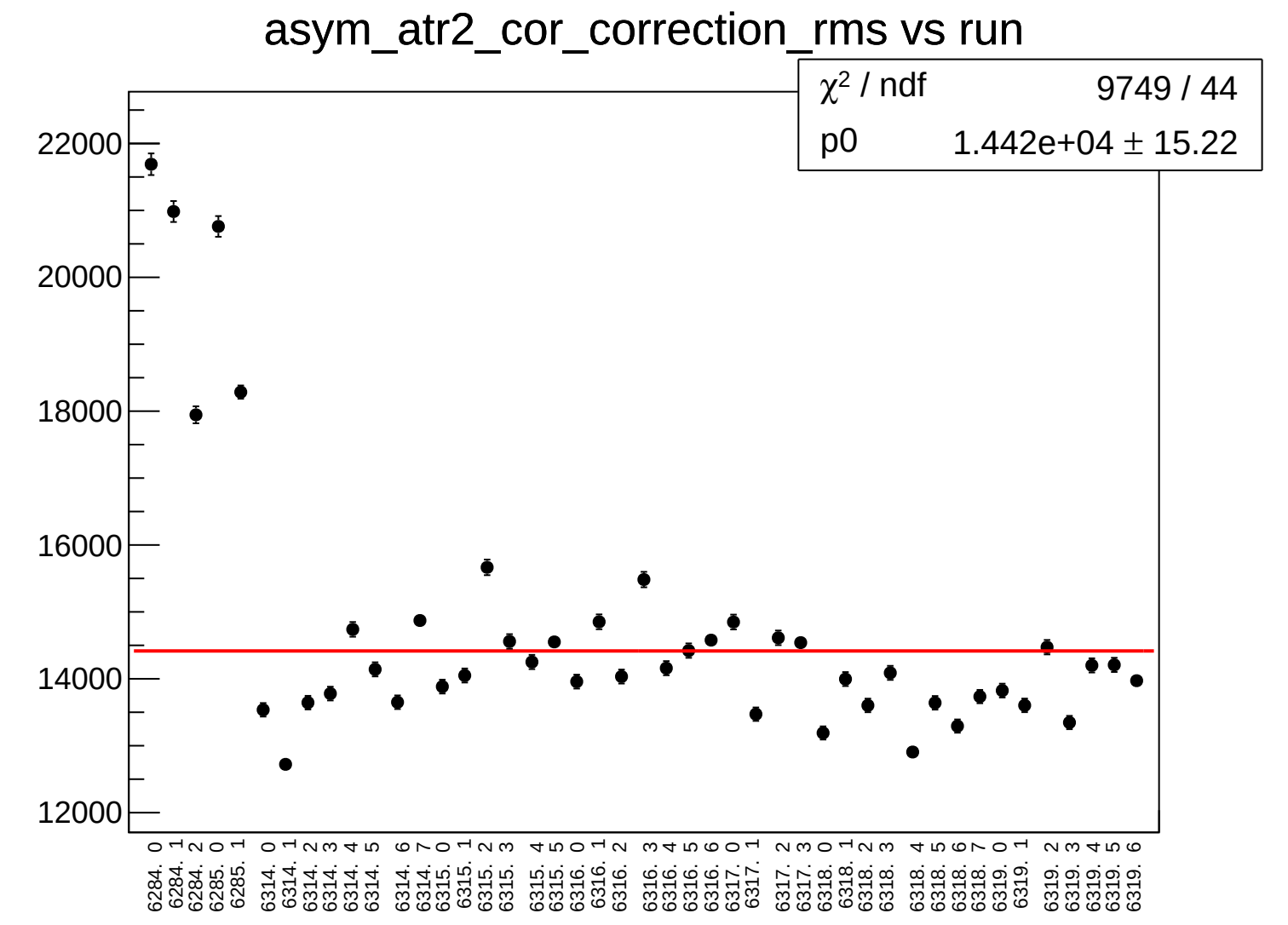

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 55.16 / 44
p0 1726 ± 5801
200
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.54
Std Dev 0
3
2
1
0
−1
−2

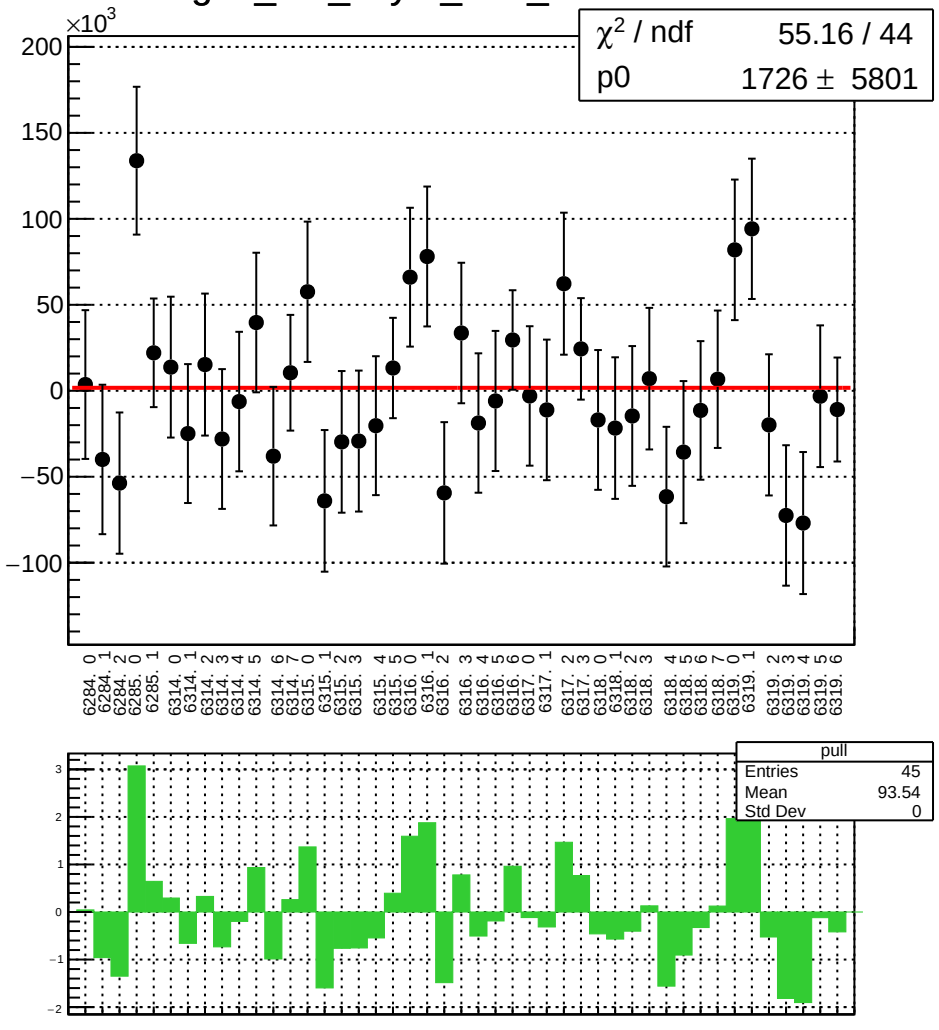

pull1D
Entries 45
Mean −0.01976
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

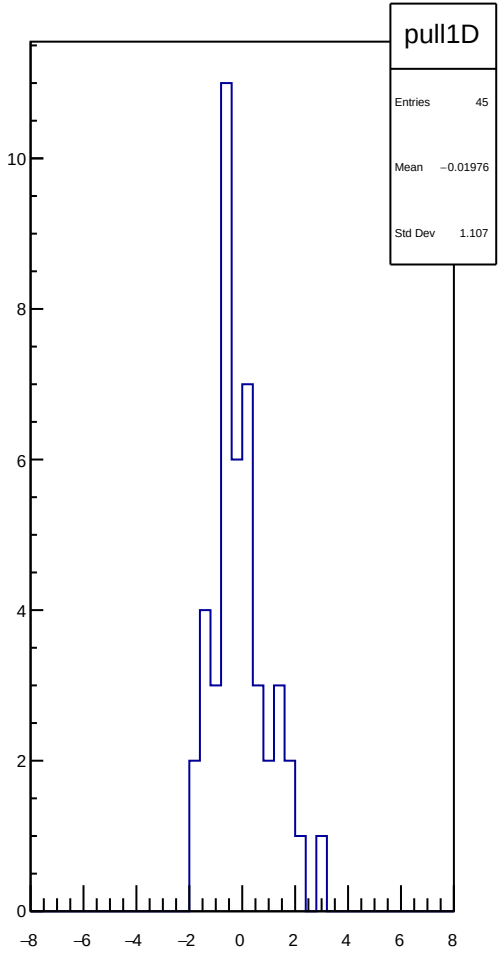

cor_asym_atr2_rms vs run
χ^2 / ndf 350.4 / 44
p0 3906 ± 4.102
4150
4100
4050
4000
3950
3900
3850
3800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

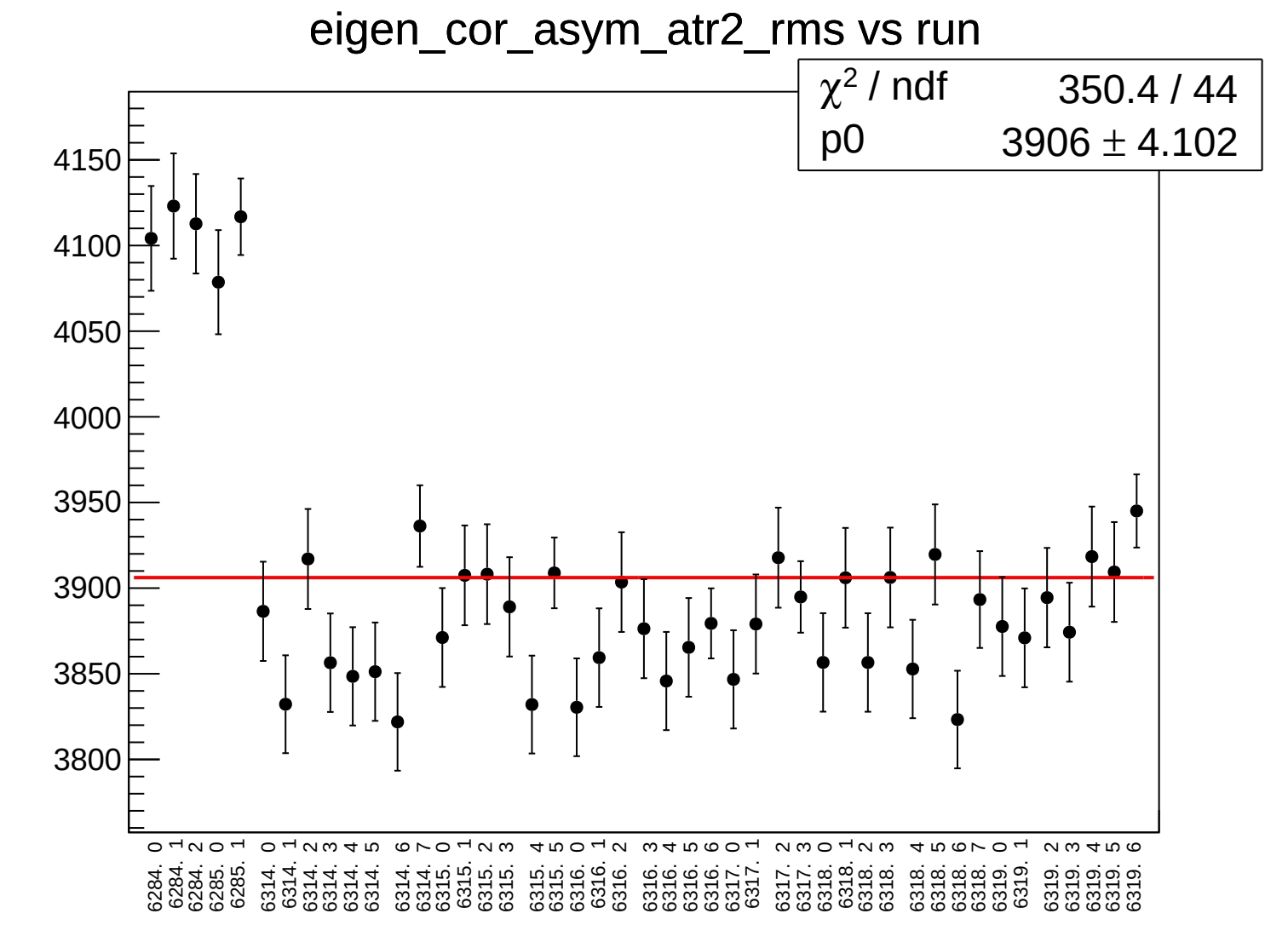

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 −1.98e+04 ± 2.152e+04
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1012
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.00238
Std Dev 0.9558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_cor_correction_rms vs run
χ² / ndf 9749 / 44
p0 1.442e+04 ± 15.22
22000
20000
18000
16000
14000
12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 55.16 / 44
p0 1726 ± 5801
200
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.54
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01976
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr2_rms vs run
χ² / ndf 350.4 / 44
p0 3906 ± 4.102
4150
4100
4050
4000
3950
3900
3850
3800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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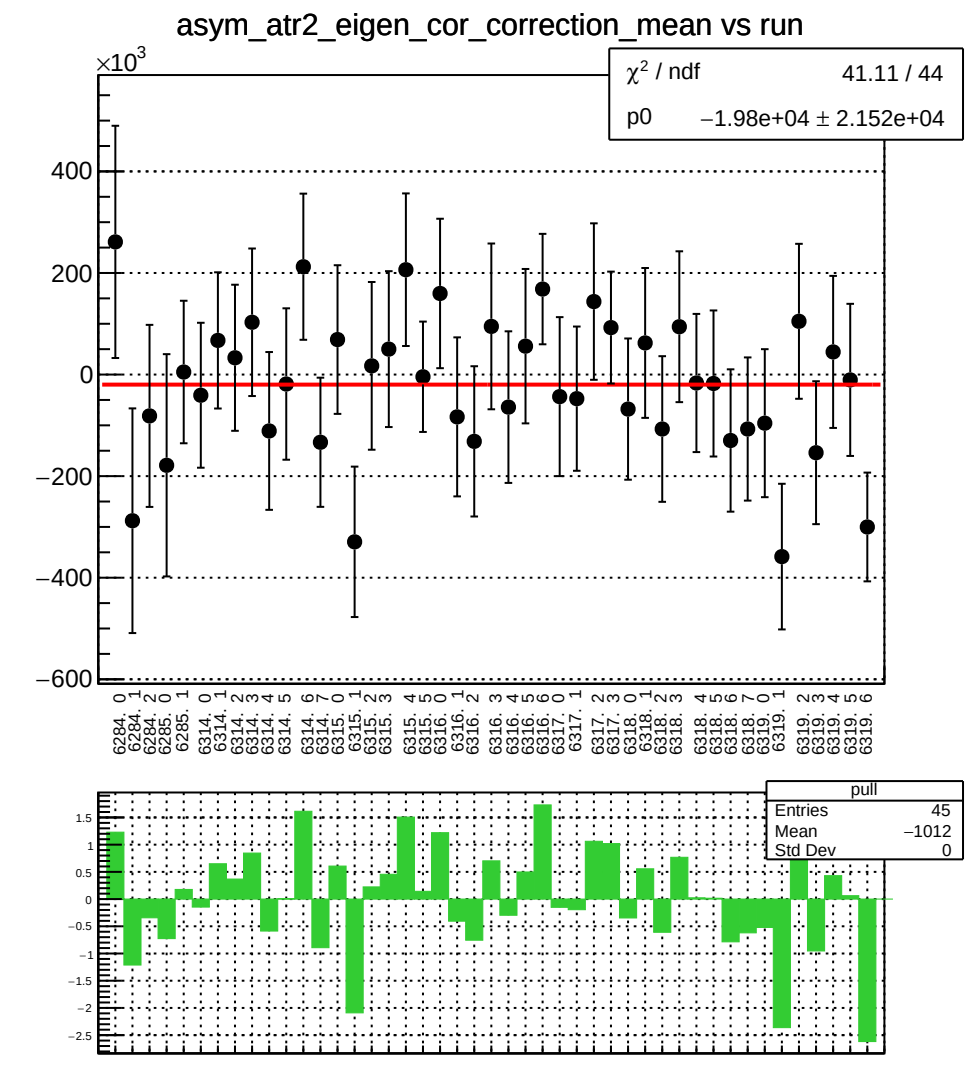
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 −1.98e+04 ± 2.152e+04
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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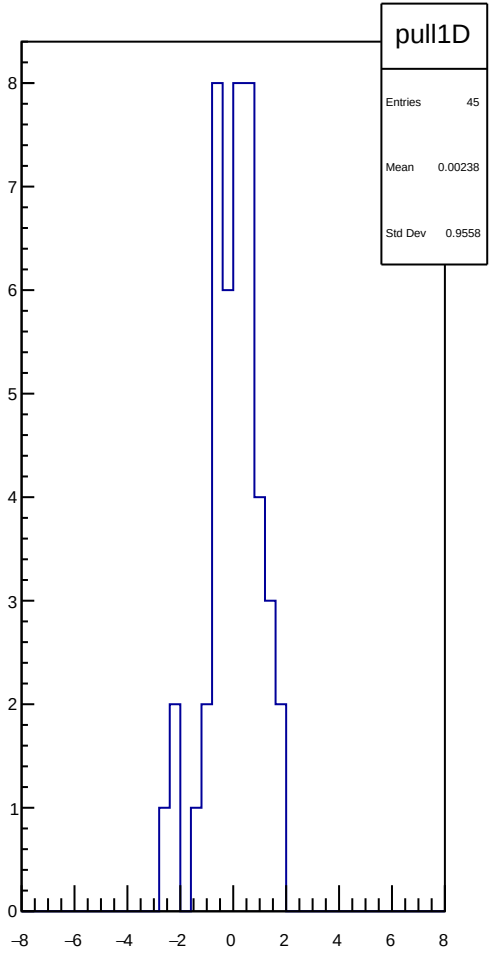
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1012
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.00238
Std Dev 0.9558
8
7
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5
4
3
2
1
0
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−6
−4
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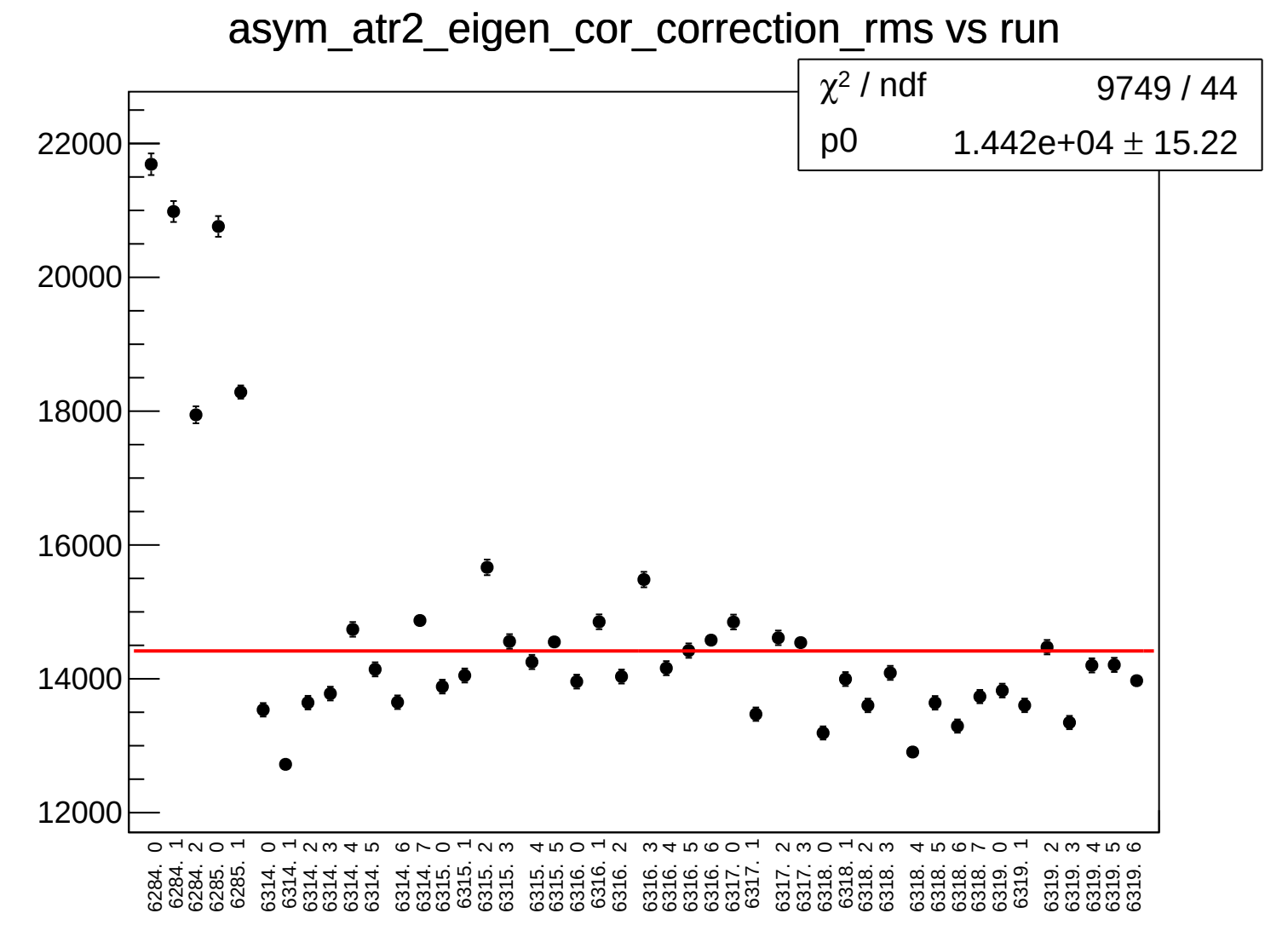
2
4
6
8


asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 9749 / 44
p0 1.442e+04 ± 15.22
22000
20000
18000
16000
14000
12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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6319. 2
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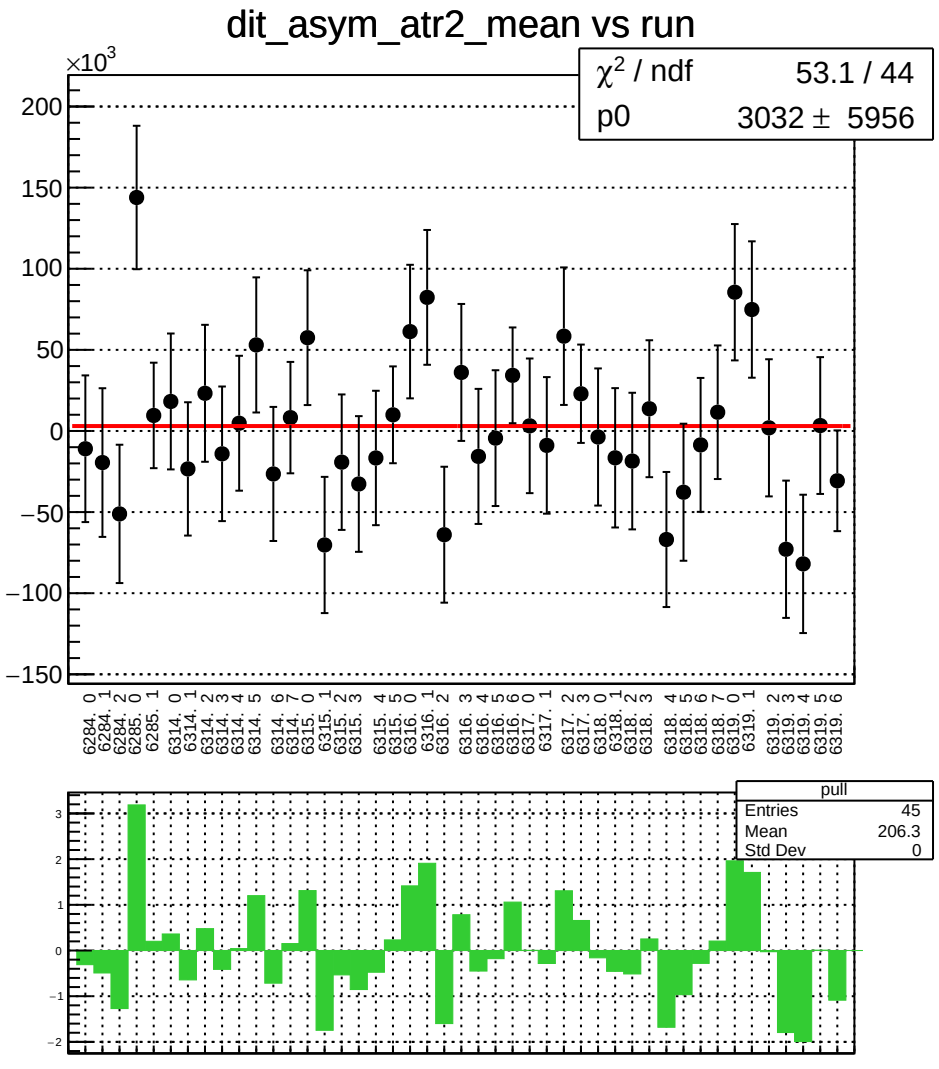
6319. 4
6319. 5
6319. 6


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 53.1 / 44
p0 3032 ± 5956
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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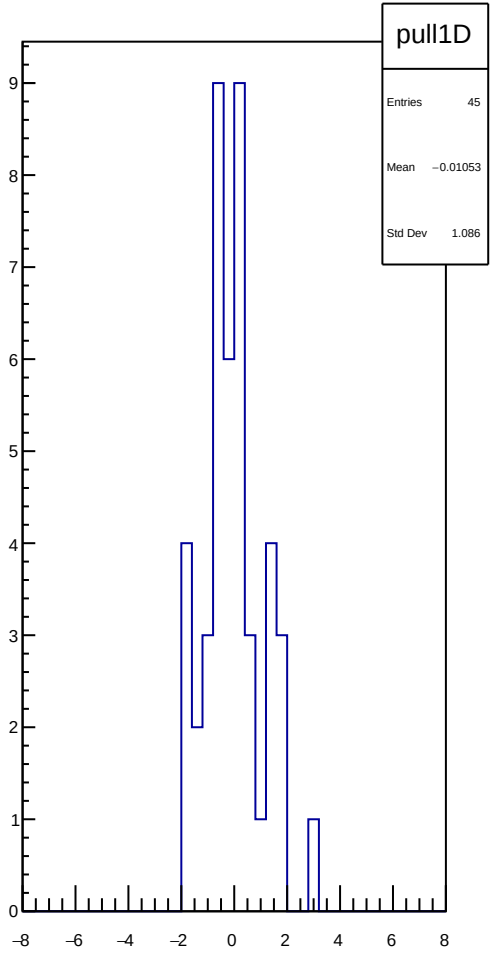
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 206.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01053
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
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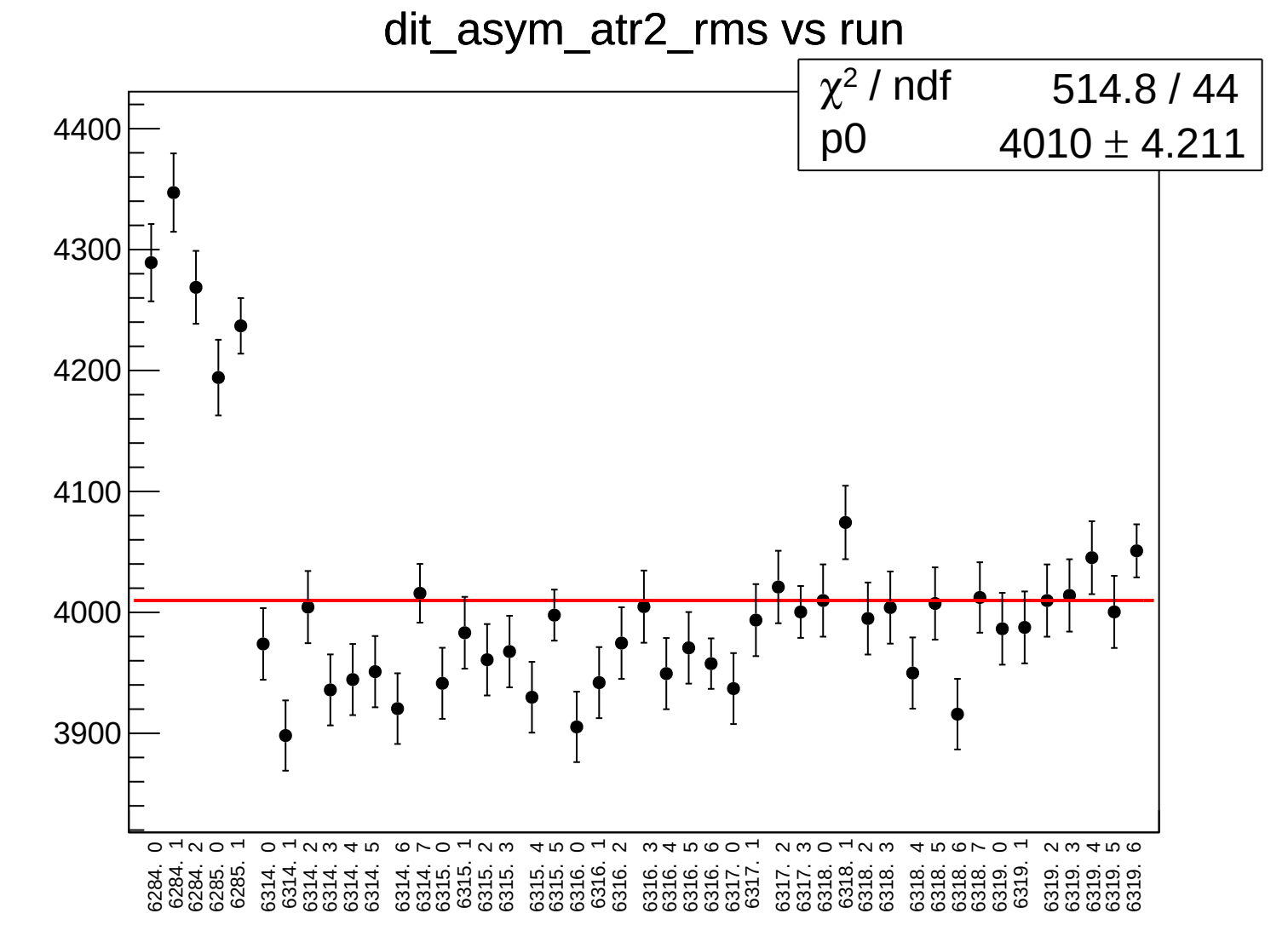
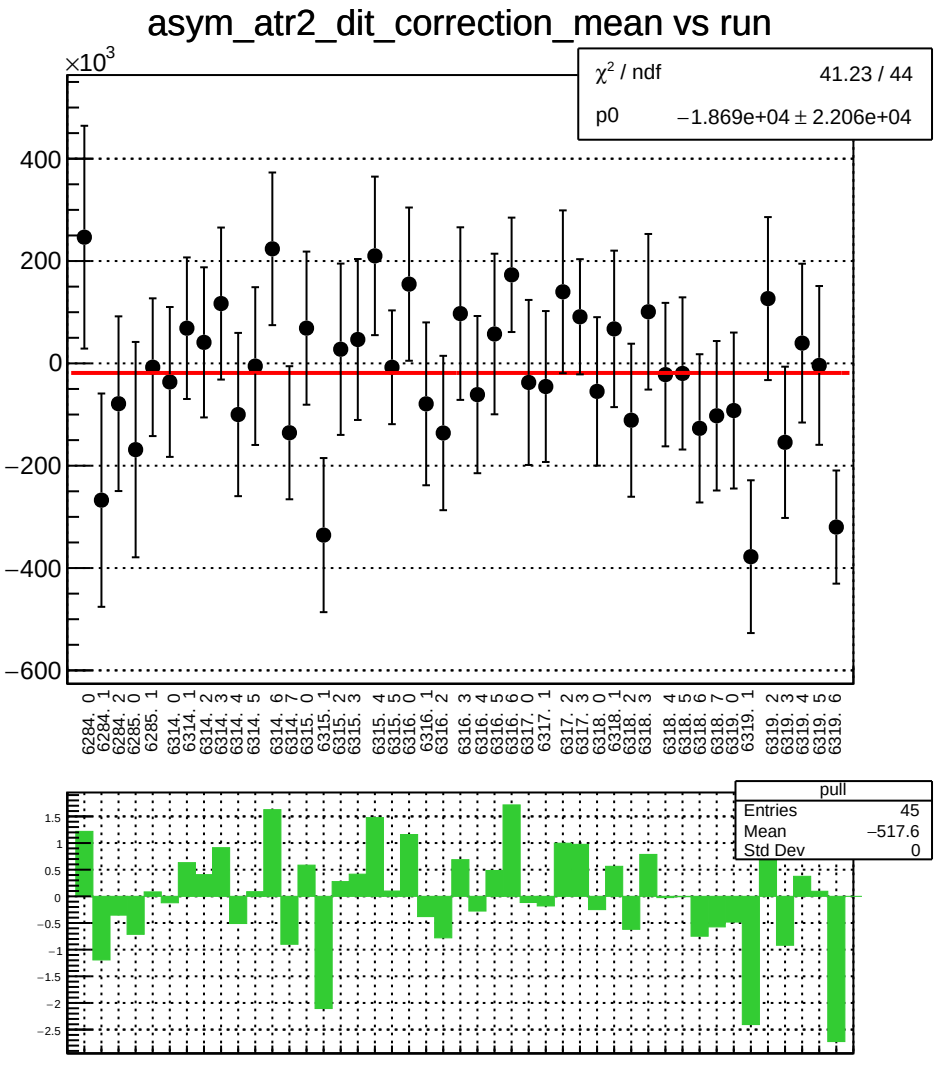
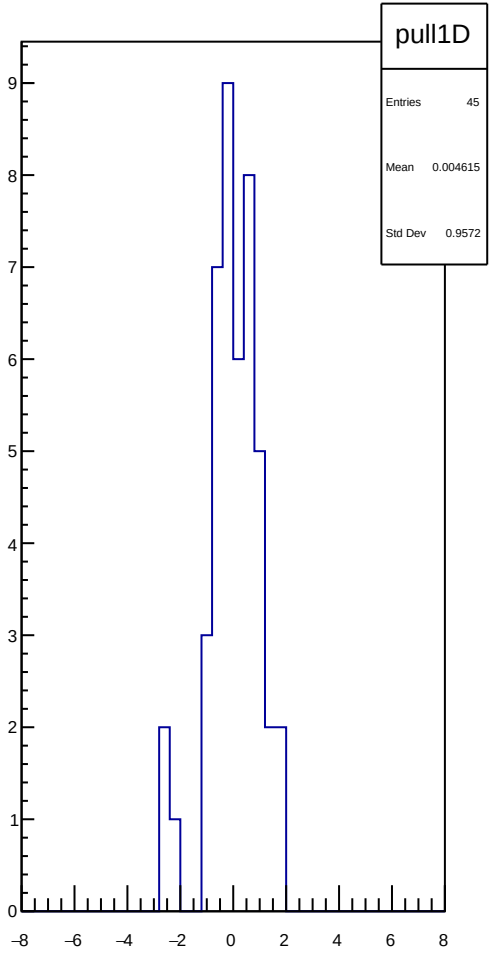
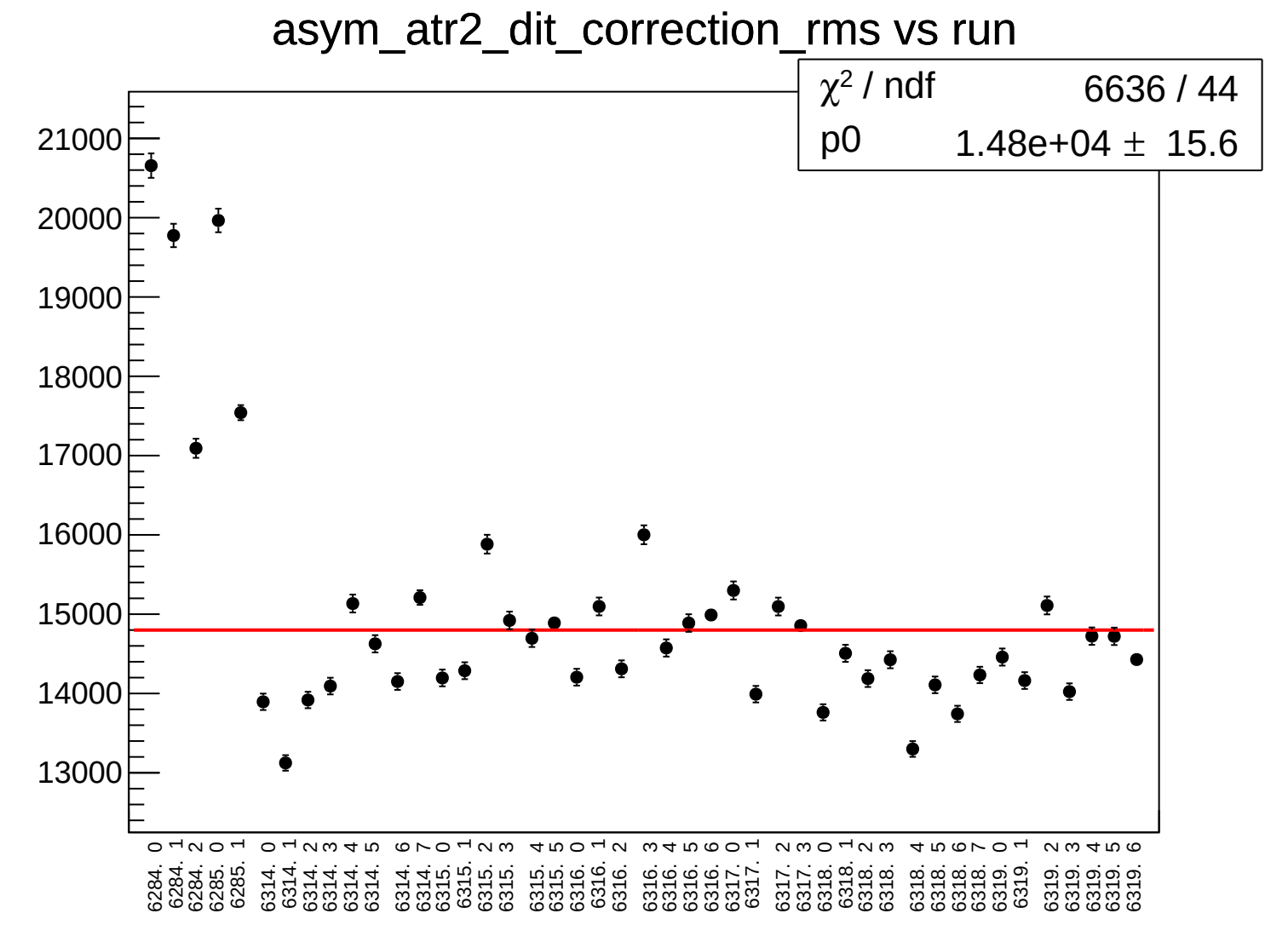
−4
−2
0
2
4
6
8


dit_asym_atr2_rms vs run
χ² / ndf 514.8 / 44
p0 4010 ± 4.211
4400
4300
4200
4100
4000
3900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 41.23 / 44
p0 −1.869e+04 ± 2.206e+04
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −517.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.004615
Std Dev 0.9572
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_dit_correction_rms vs run
χ² / ndf 6636 / 44
p0 1.48e+04 ± 15.6
21000
20000
19000
18000
17000
16000
15000
14000
13000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
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6315. 4
6315. 5
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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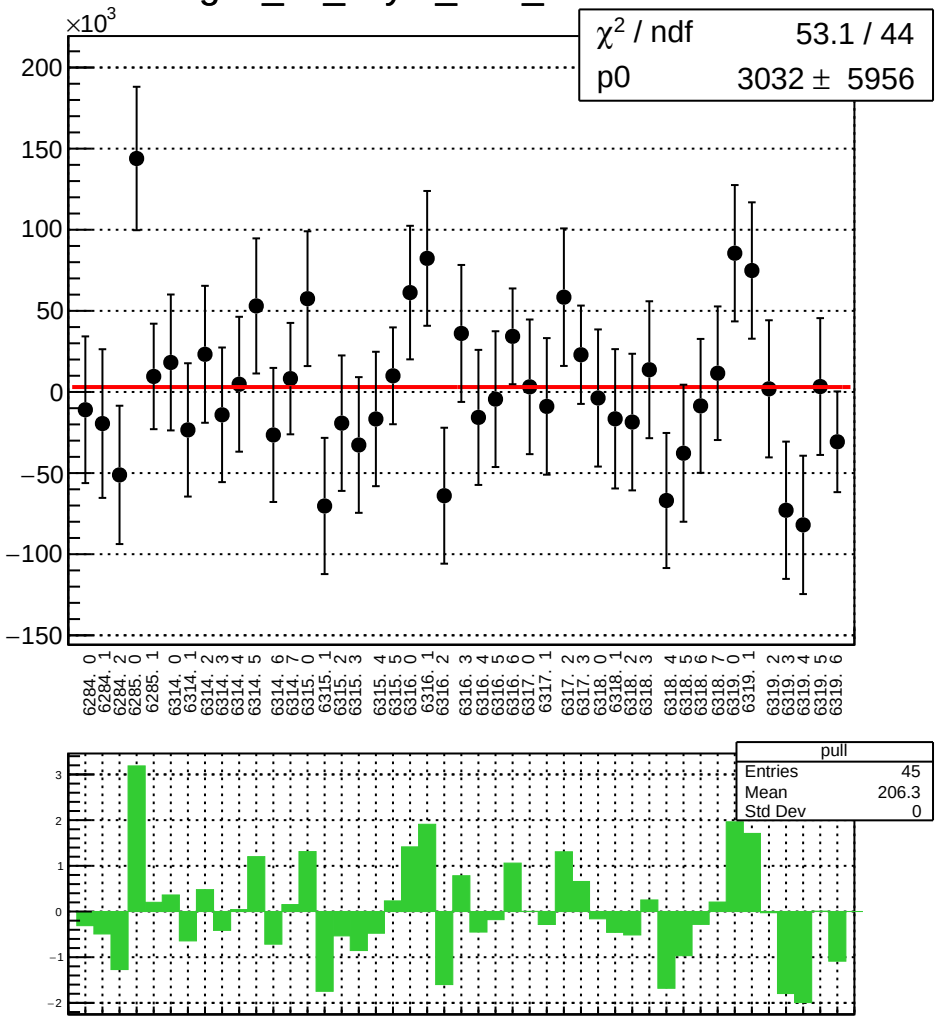
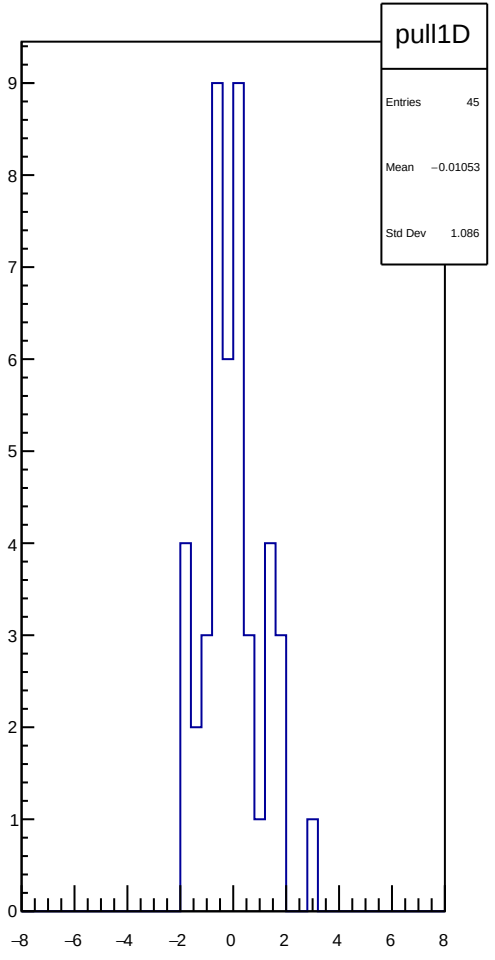
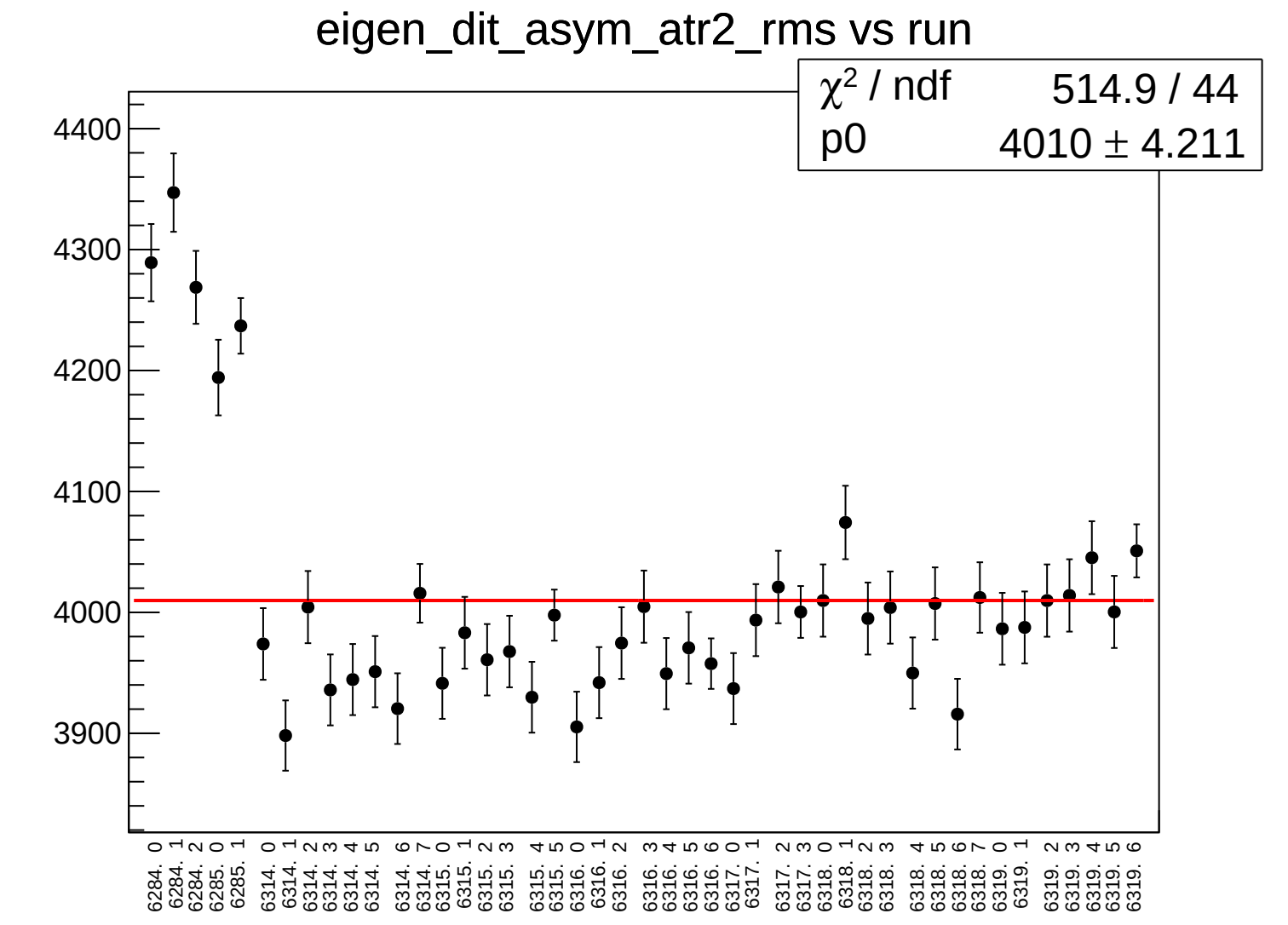
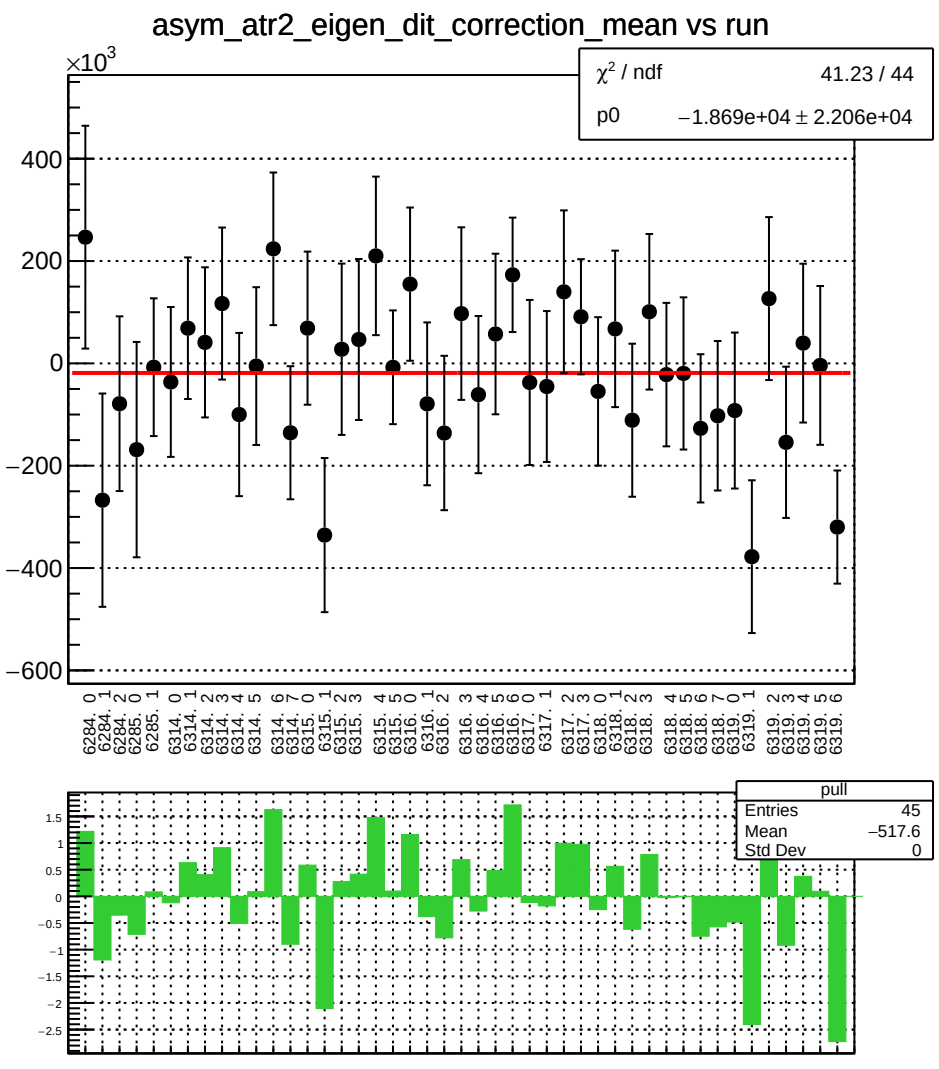
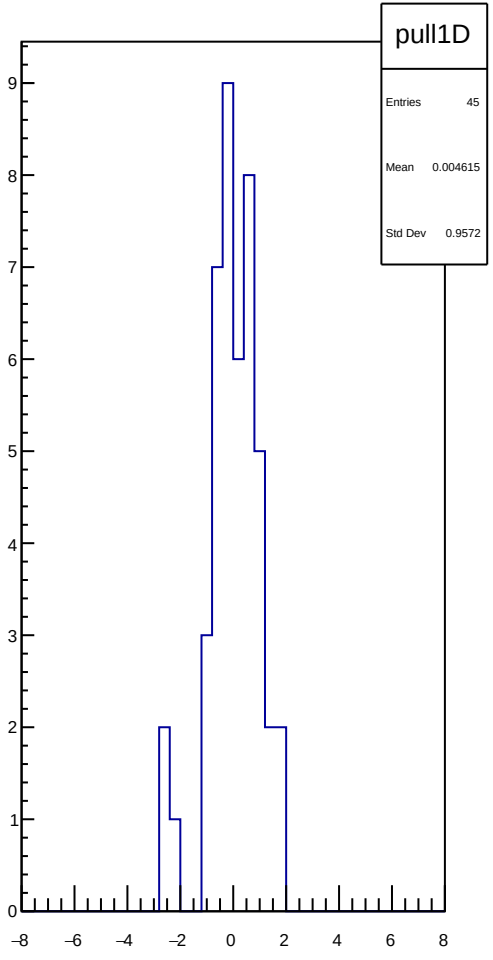
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

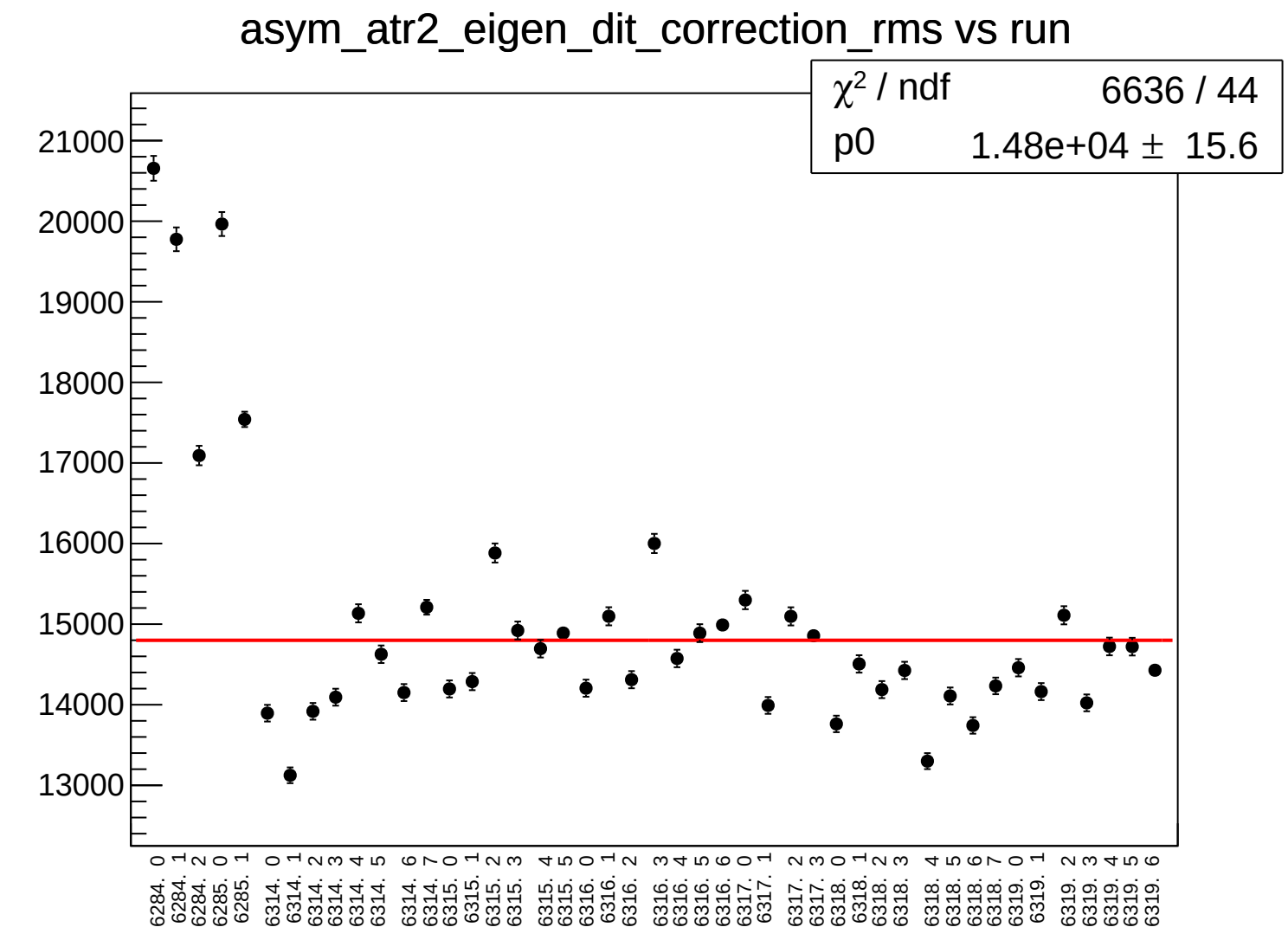

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 53.1 / 44
p0 3032 ± 5956
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 206.3
Std Dev 0
3
2
1
0
−1
−2

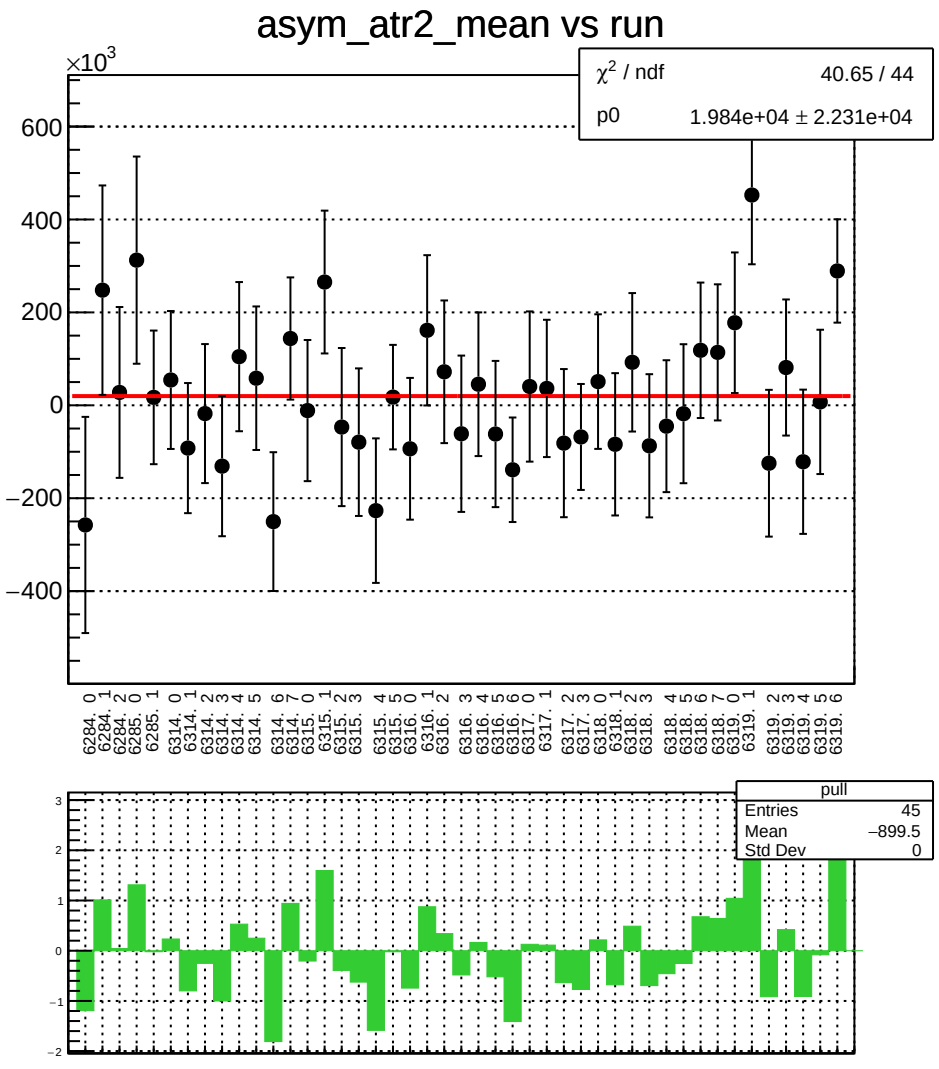

pull1D
Entries 45
Mean −0.01053
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

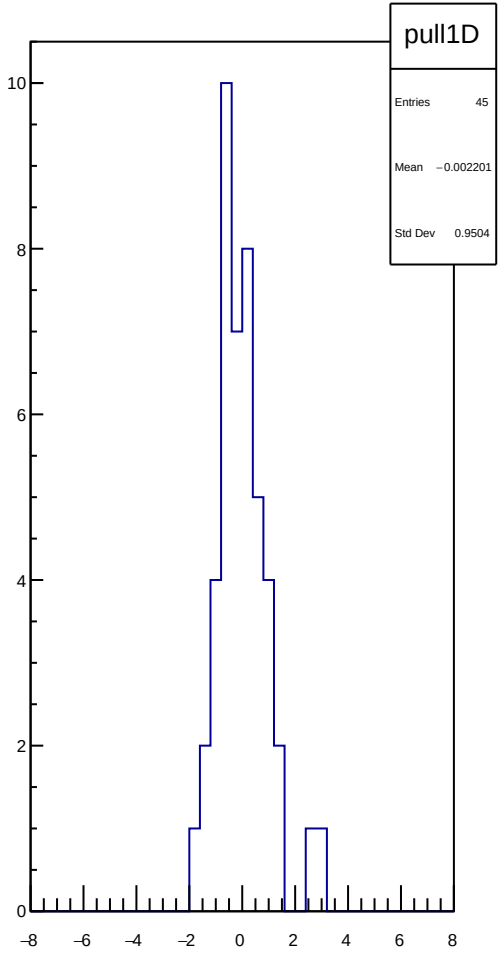

eigen_dit_asym_atr2_rms vs run
χ² / ndf 514.9 / 44
p0 4010 ± 4.211
4400
4300
4200
4100
4000
3900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

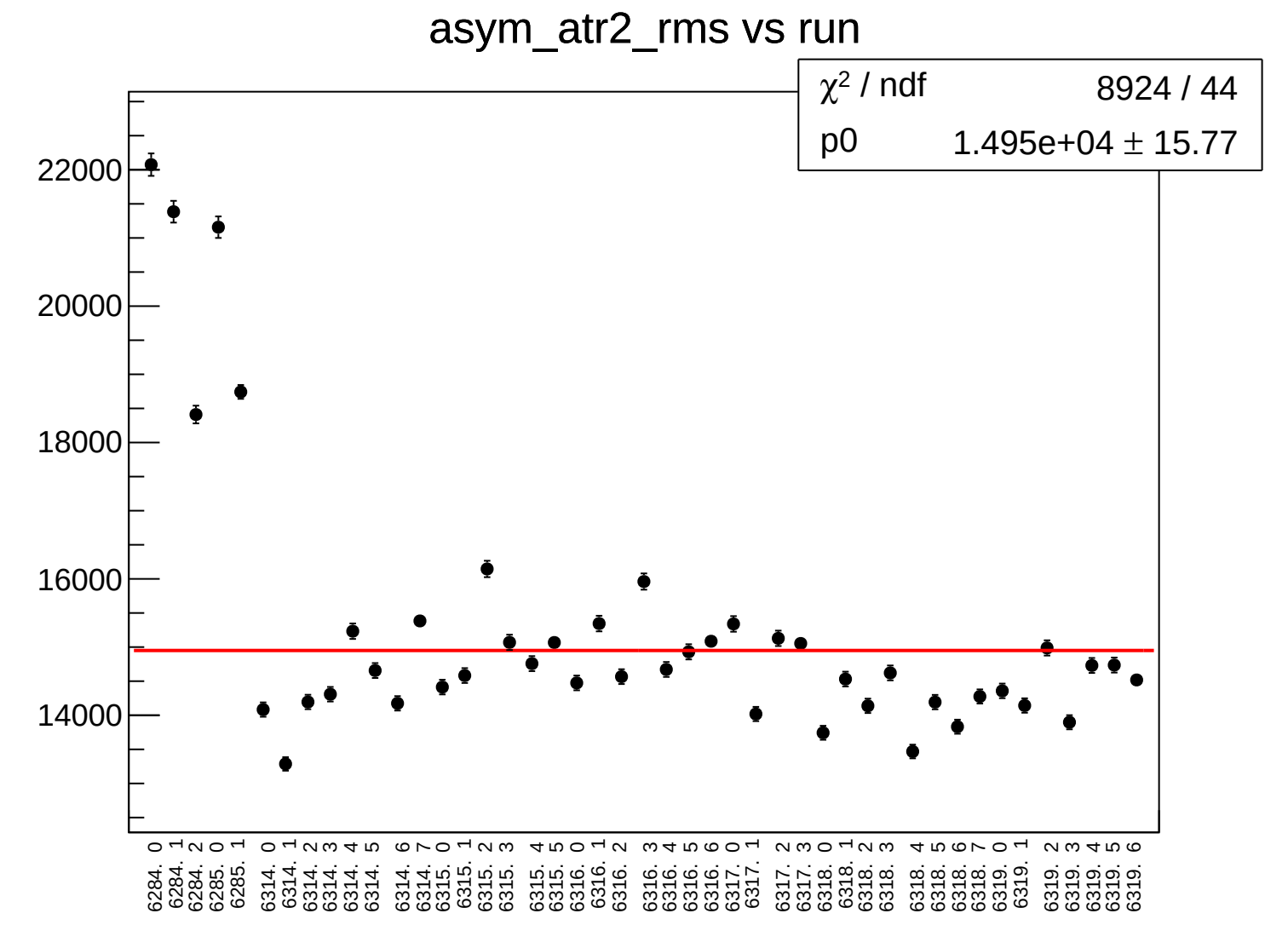

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.23 / 44
p0 −1.869e+04 ± 2.206e+04
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −517.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

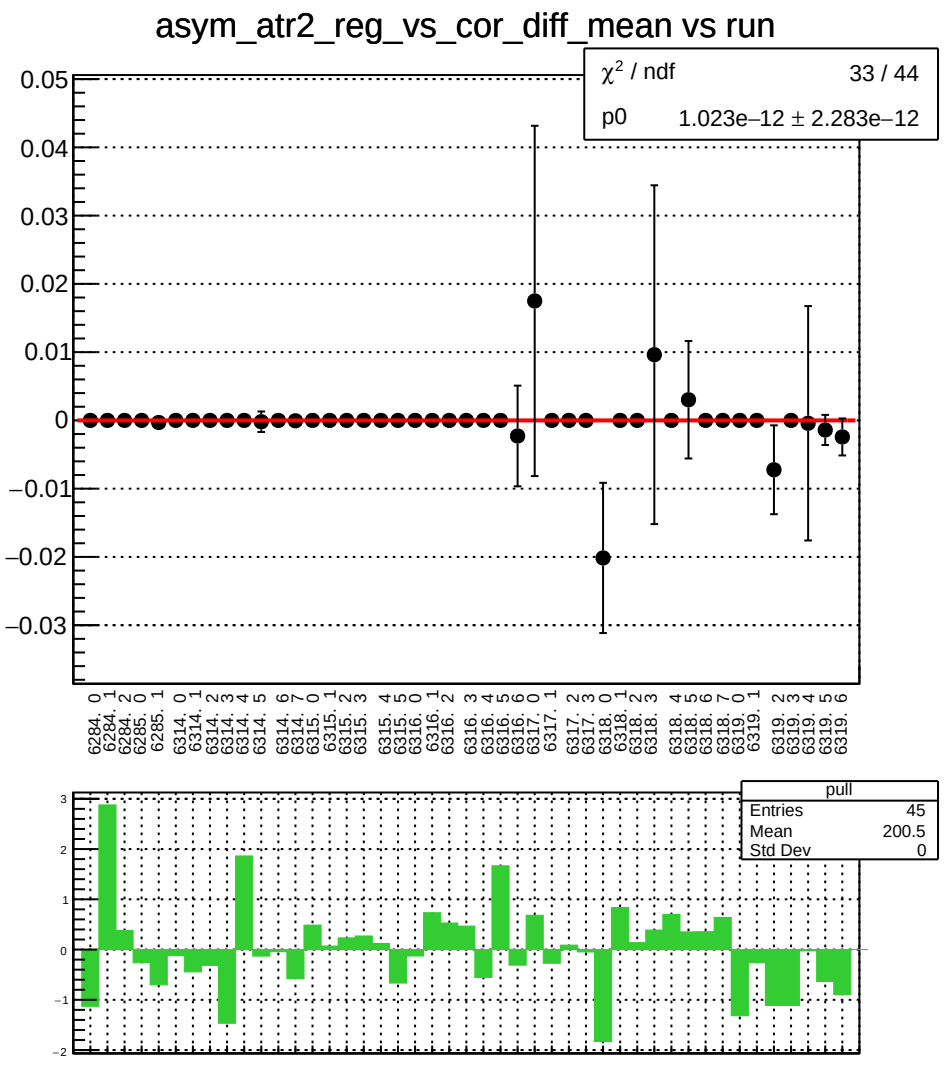

pull1D
Entries 45
Mean 0.004615
Std Dev 0.9572
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

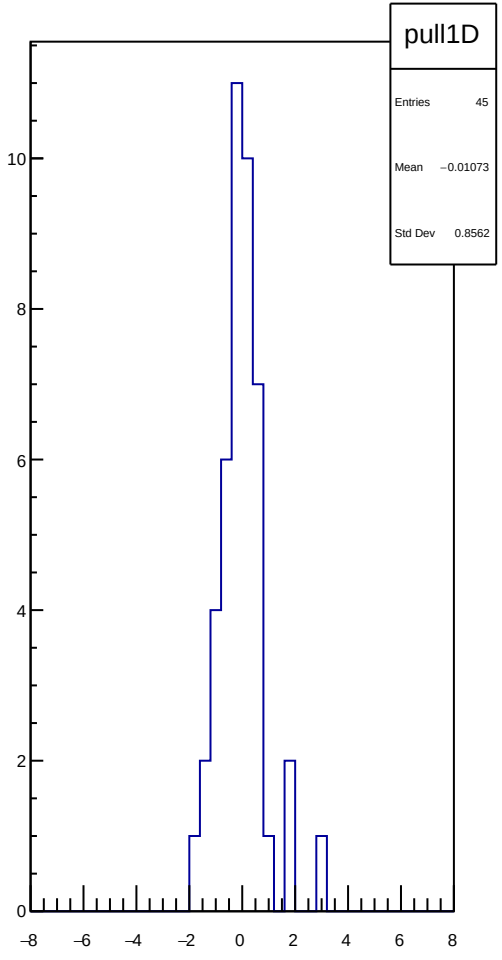

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 6636 / 44
p0 1.48e+04 ± 15.6
21000
20000
19000
18000
17000
16000
15000
14000
13000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

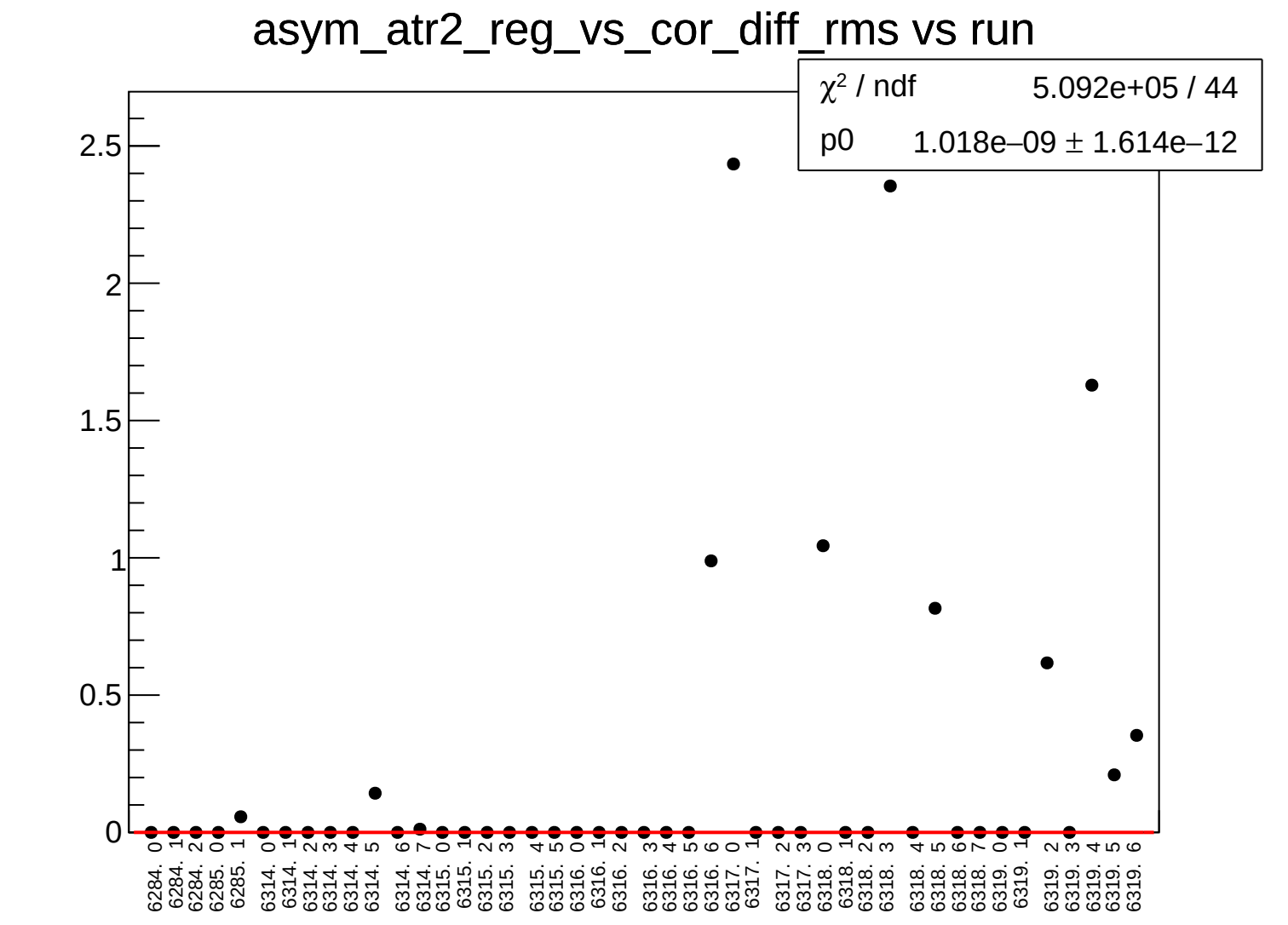

asym_atr2_mean vs run
×10^3
χ² / ndf 40.65 / 44
p0 1.984e+04 ± 2.231e+04
600
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −899.5
Std Dev 0
3
2
1
0
−1
−2

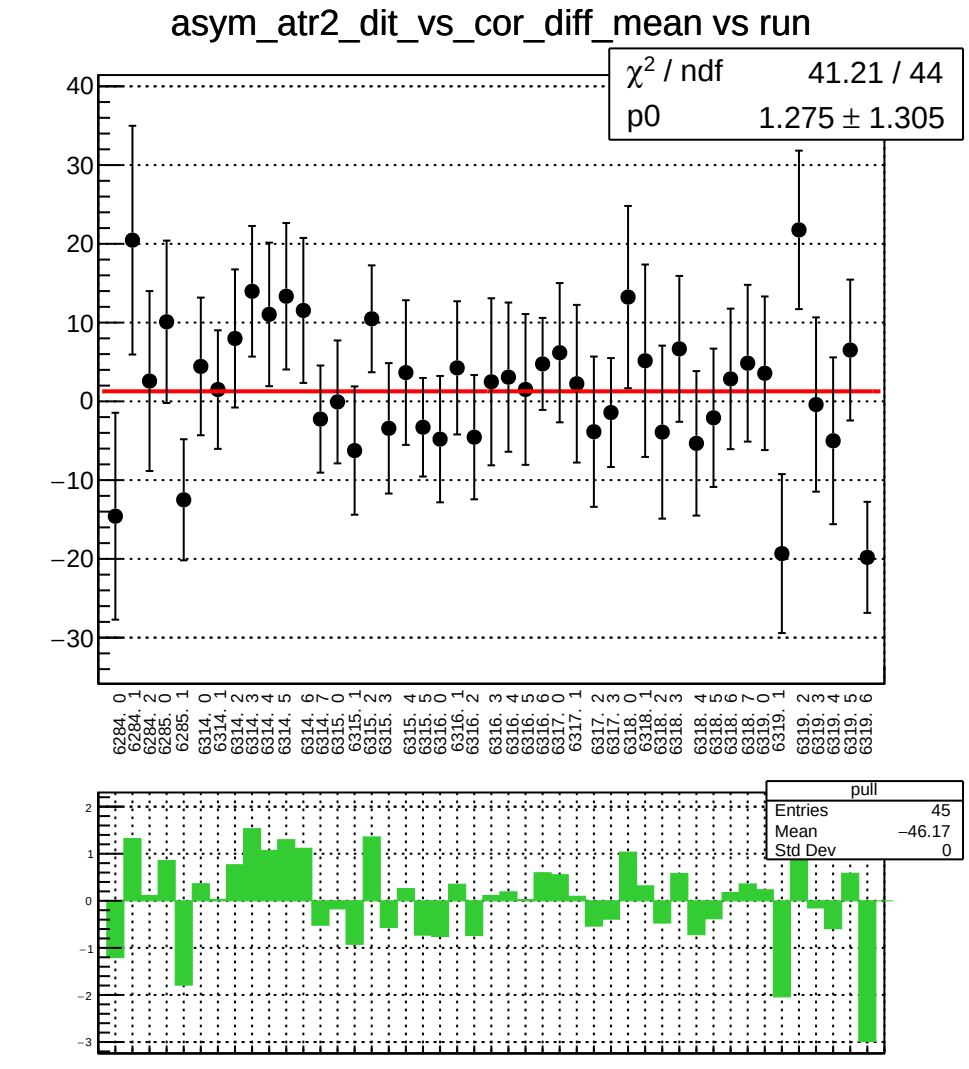

pull1D
Entries 45
Mean −0.002201
Std Dev 0.9504
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

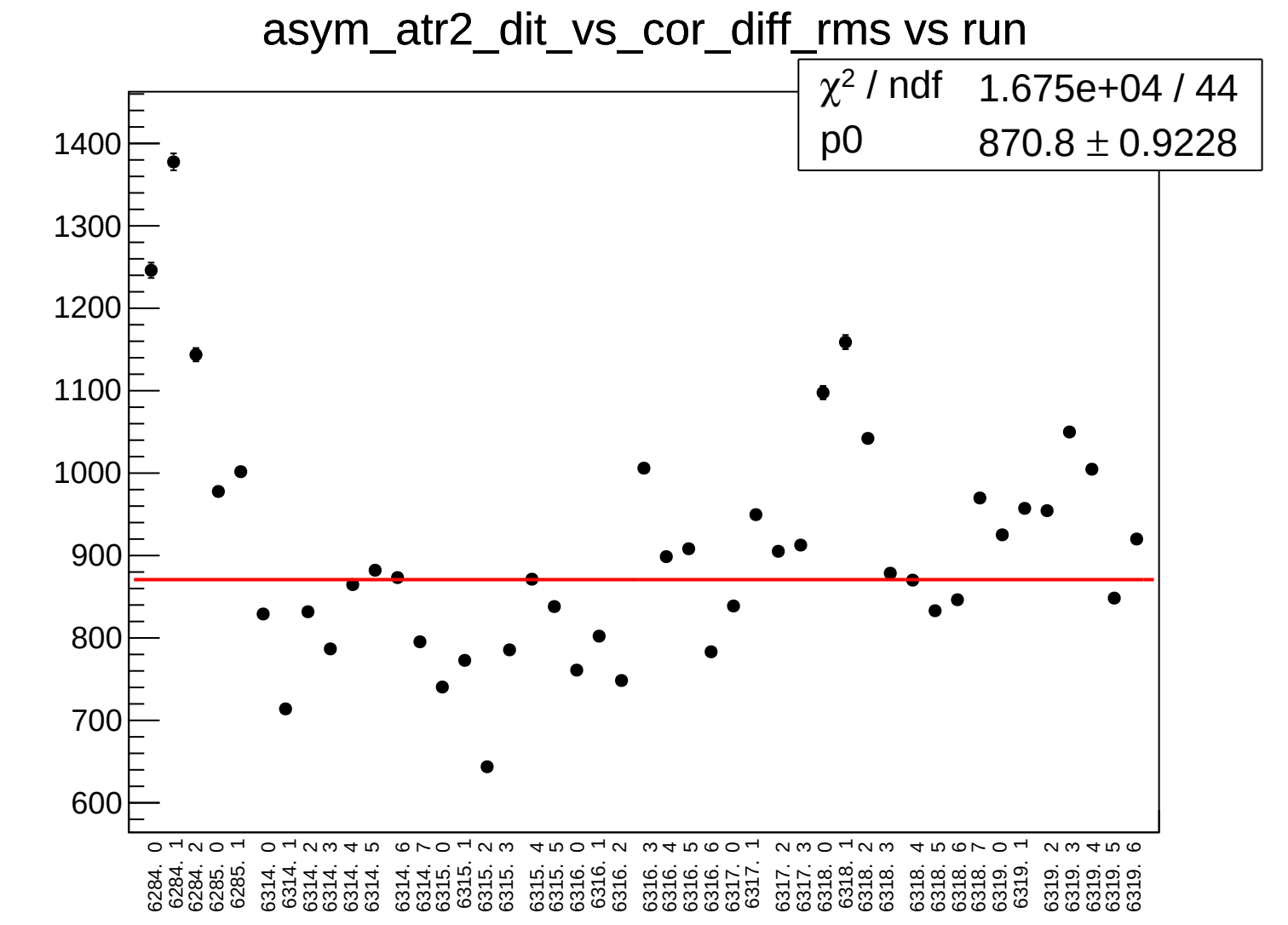

asym_atr2_rms vs run
χ² / ndf 8924 / 44
p0 1.495e+04 ± 15.77
22000
20000
18000
16000
14000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

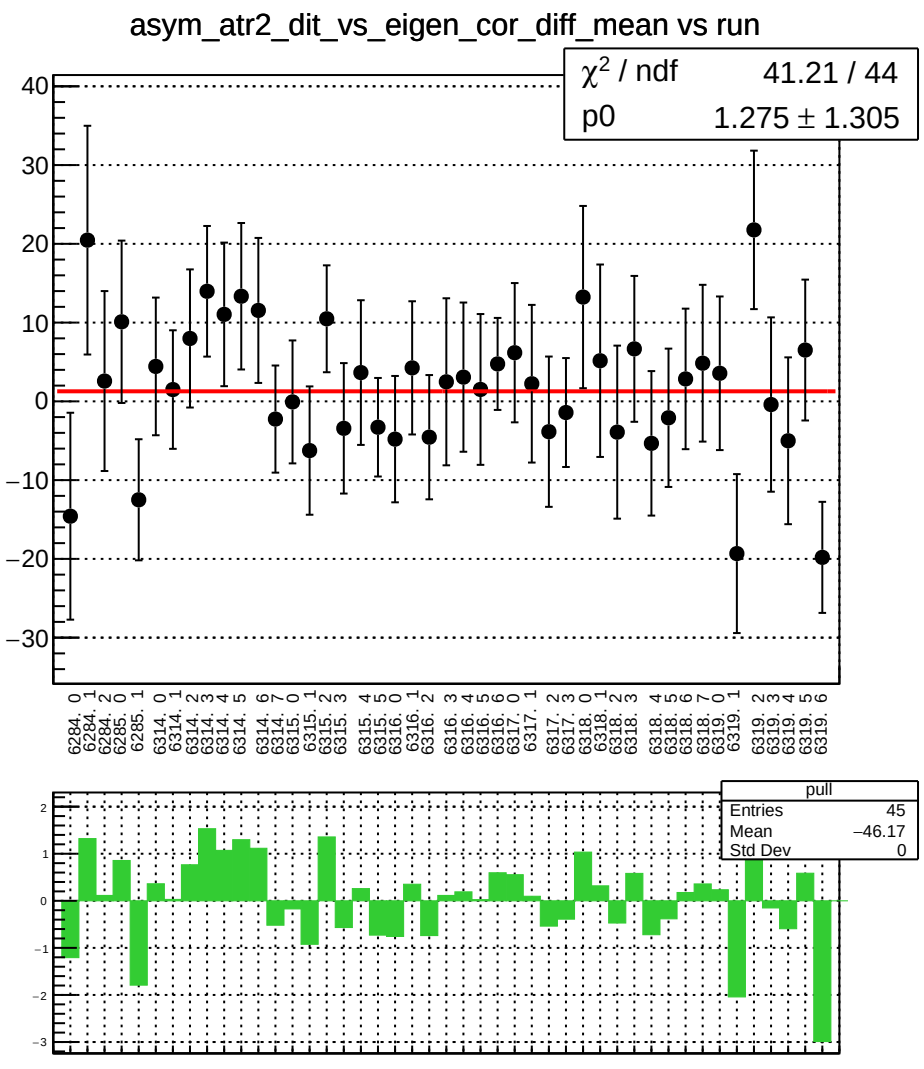

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 33 / 44
p0 1.023e−12 ± 2.283e−12
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 200.5
Std Dev 0
3
2
1
0
−1
−2

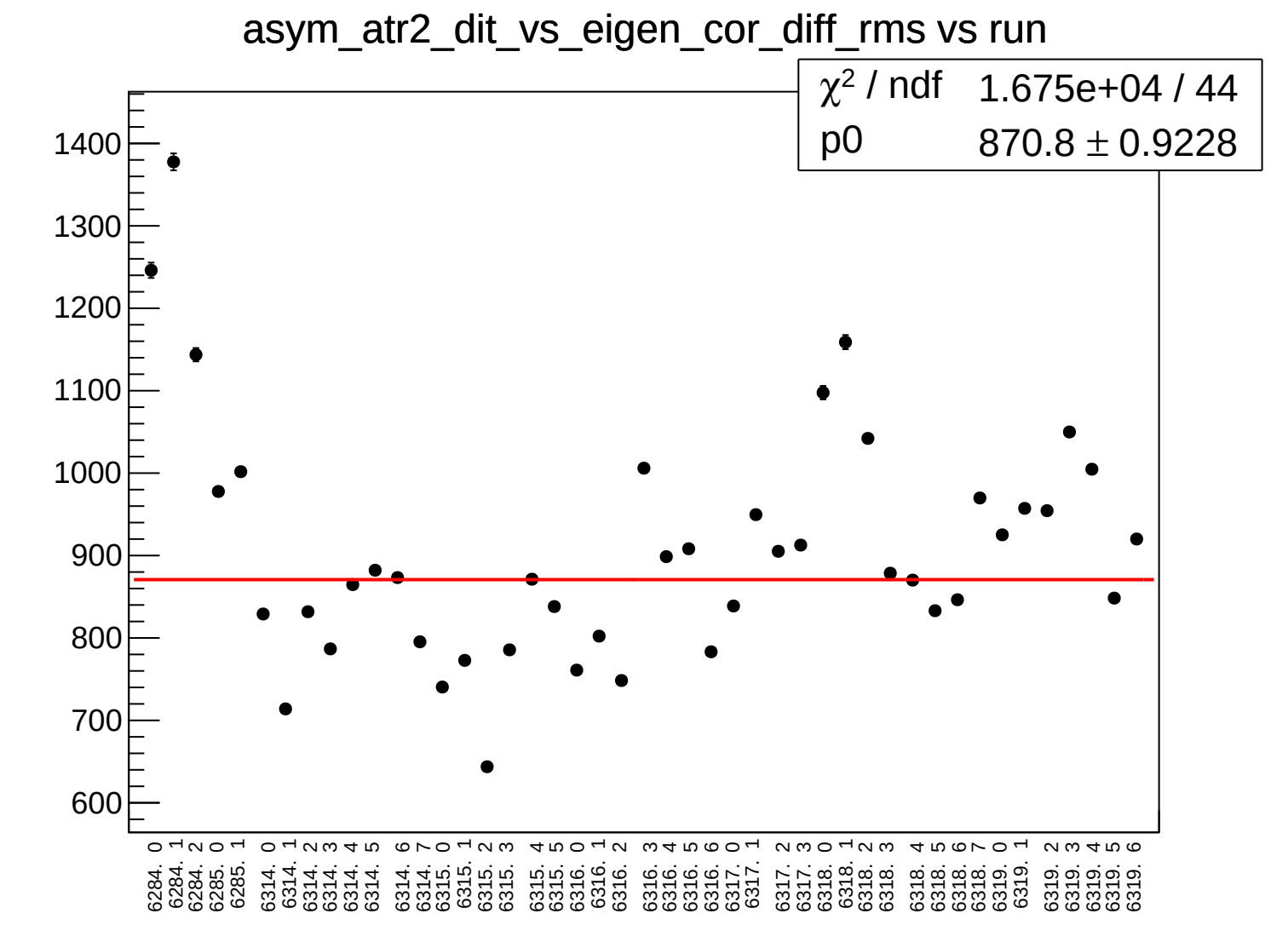

pull1D
Entries 45
Mean −0.01073
Std Dev 0.8562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

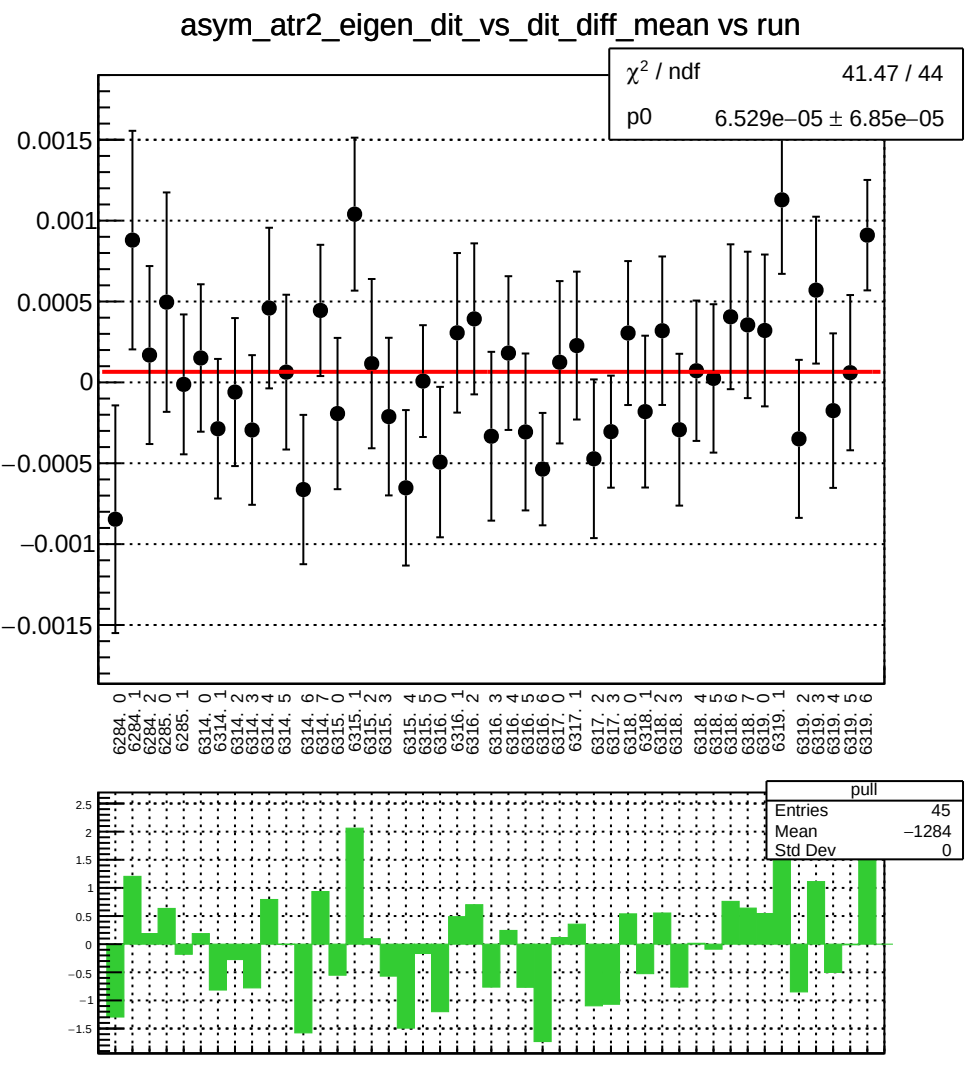

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.092e+05 / 44
p0 1.018e−09 ± 1.614e−12
2.5
2
1.5
1
0.5
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 41.21 / 44
p0 1.275 ± 1.305
pull
Entries 45
Mean −46.17
Std Dev 0
pull1D
Entries 45
Mean 0.03675
Std Dev 0.9562


asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 870.8 ± 0.9228
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.21 / 44
p0 1.275 ± 1.305
pull
Entries 45
Mean −46.17
Std Dev 0
pull1D
Entries 45
Mean 0.03675
Std Dev 0.9562


asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 870.8 ± 0.9228
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.47 / 44
p0 6.529e−05 ± 6.85e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 6
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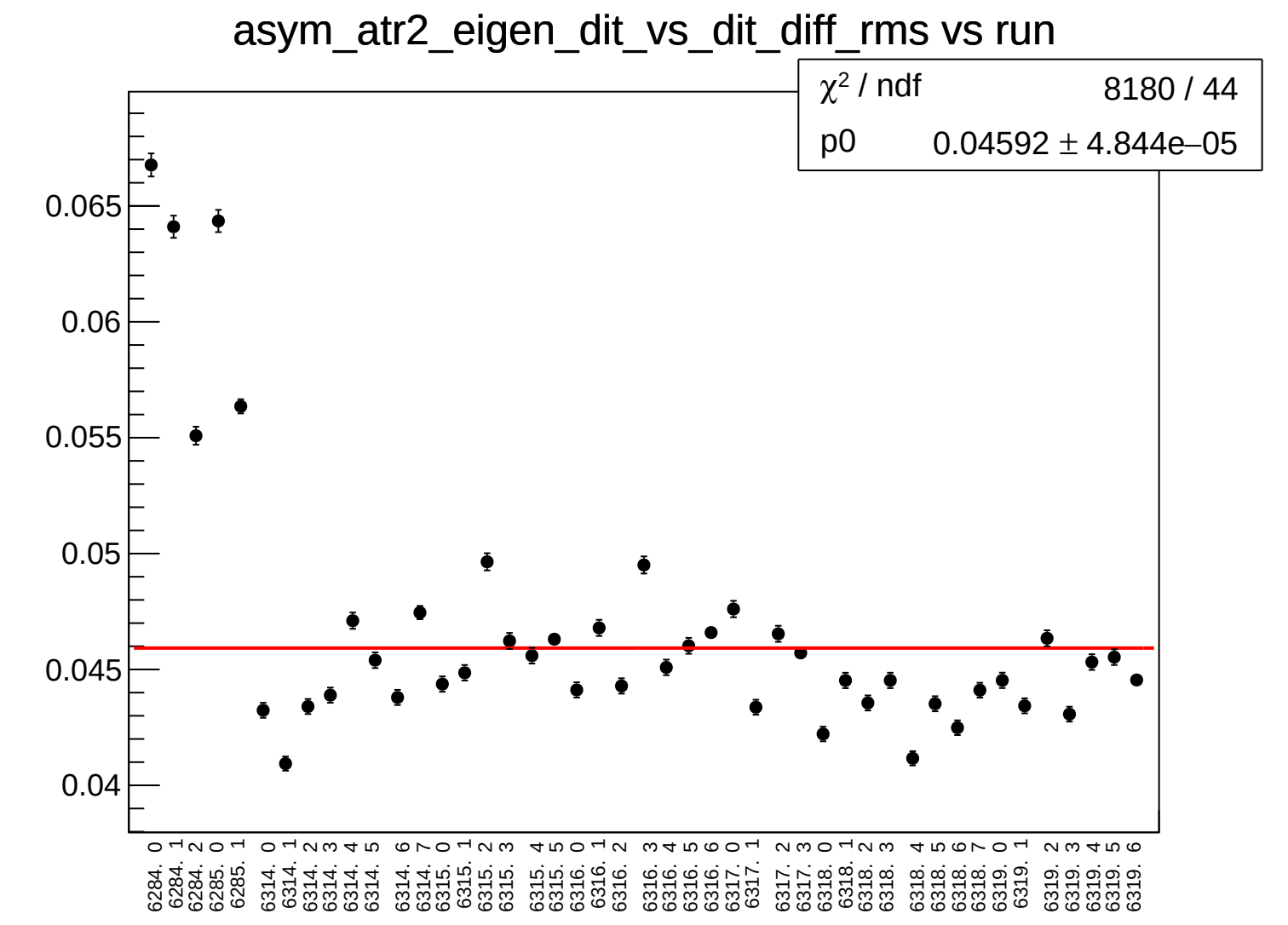
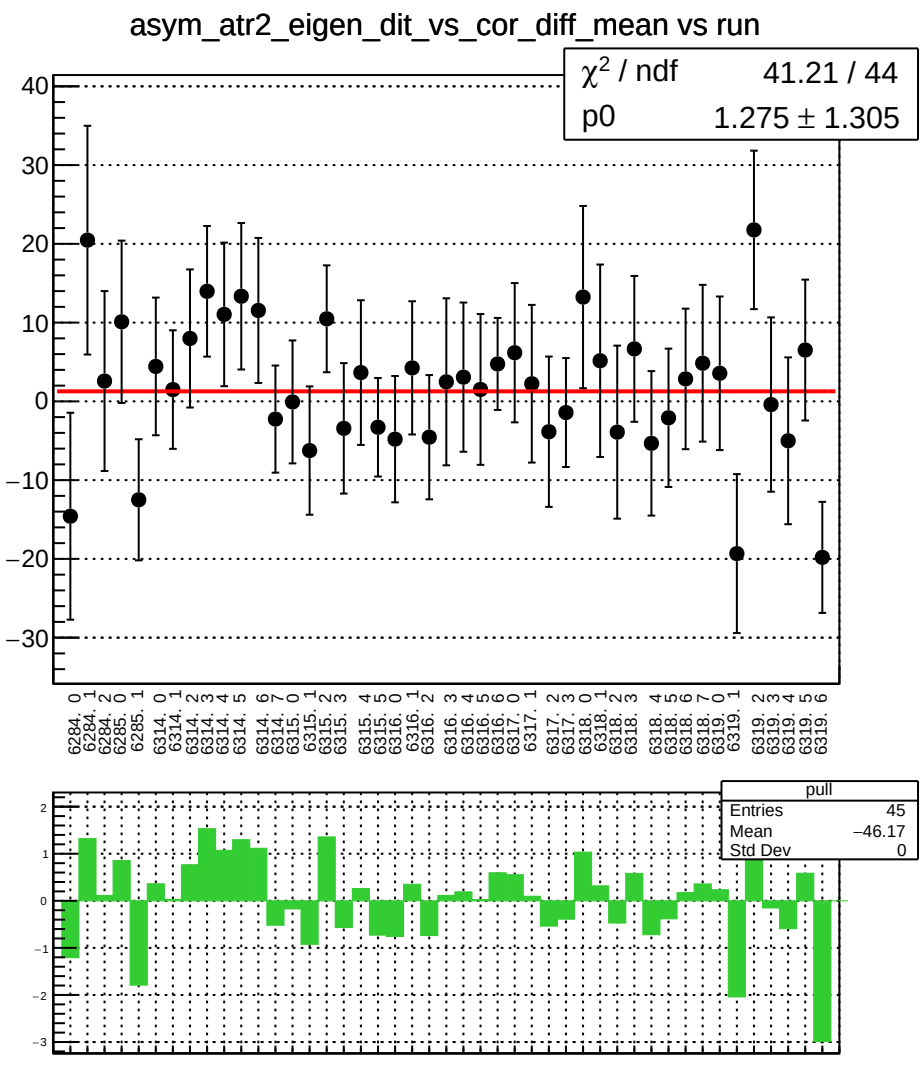
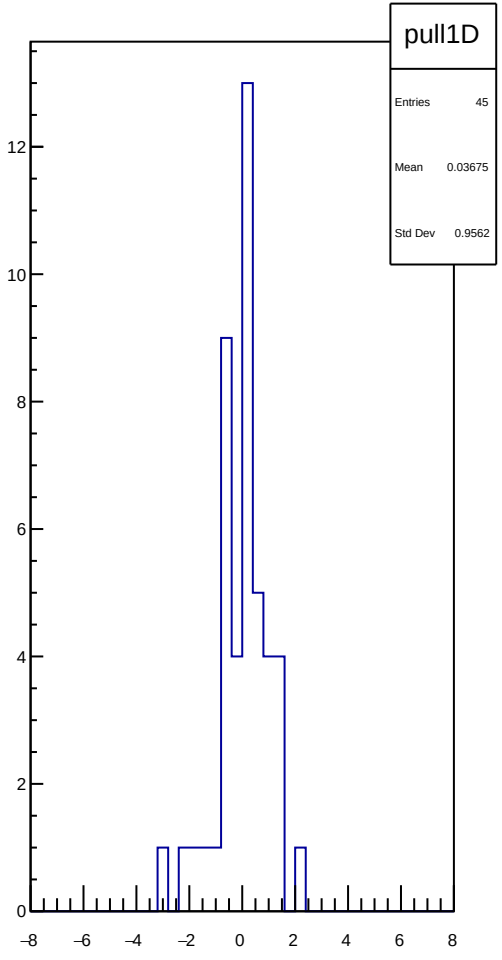
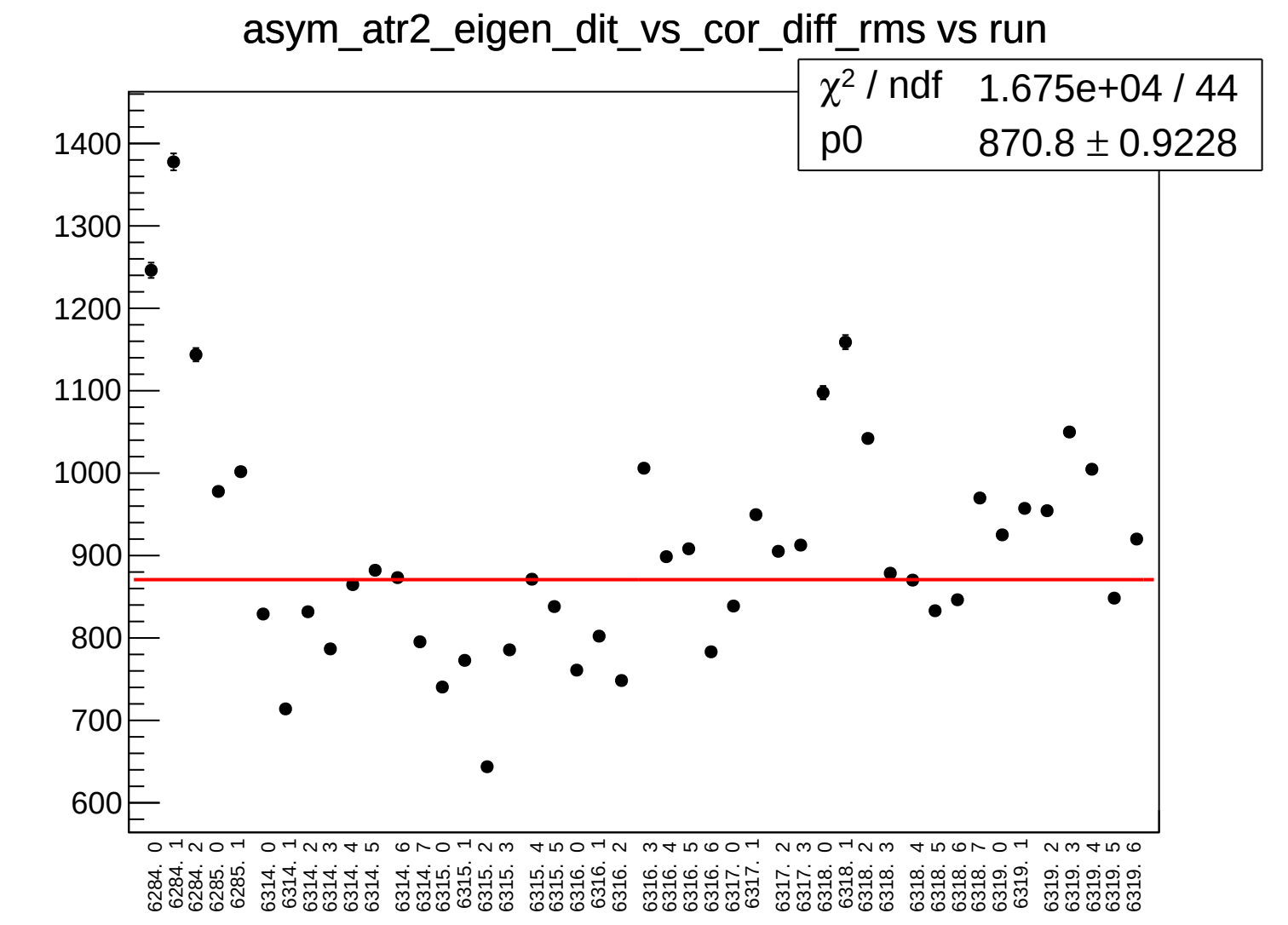
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1284
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001877
Std Dev 0.96
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

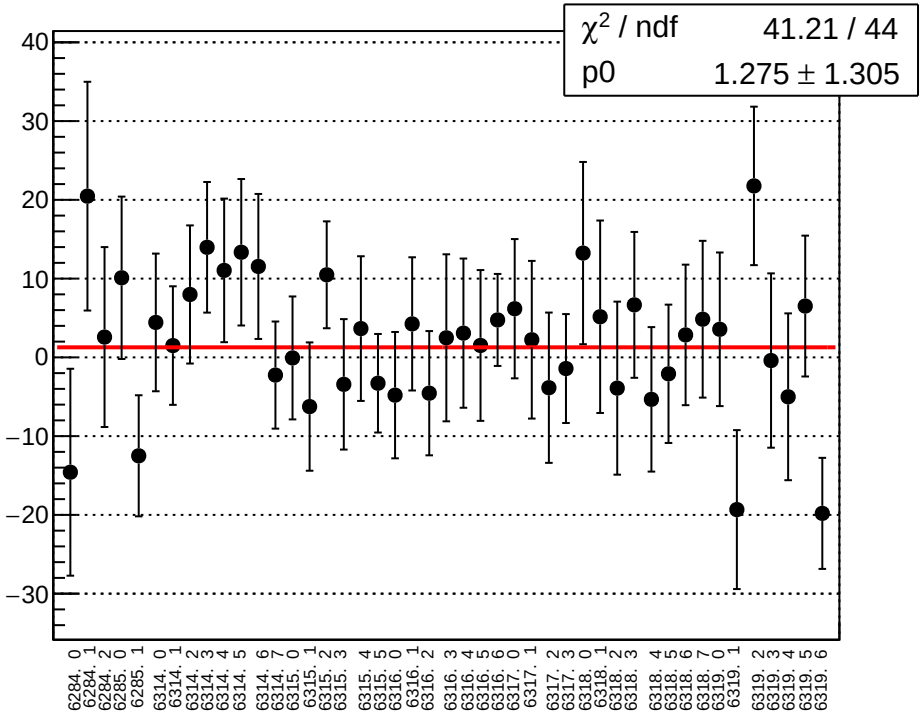

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8180 / 44
p0 0.04592 ± 4.844e−05
0.065
0.06
0.055
0.05
0.045
0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

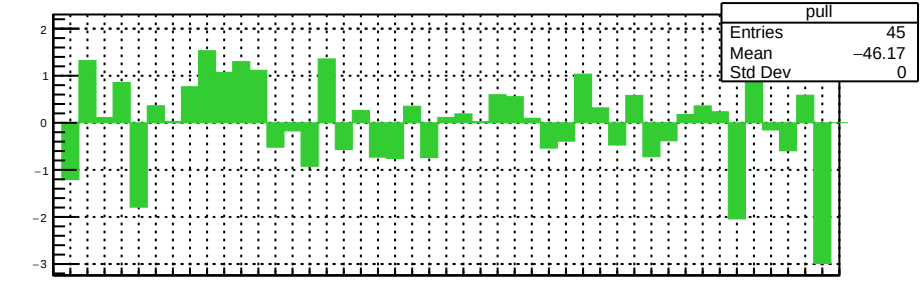

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 41.21 / 44
p0 1.275 ± 1.305
pull
Entries 45
Mean −46.17
Std Dev 0

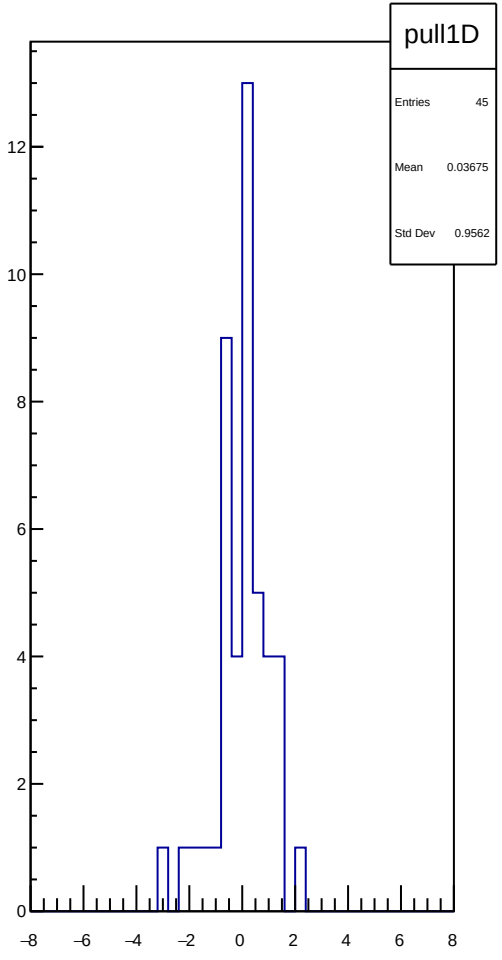

pull1D
Entries 45
Mean 0.03675
Std Dev 0.9562

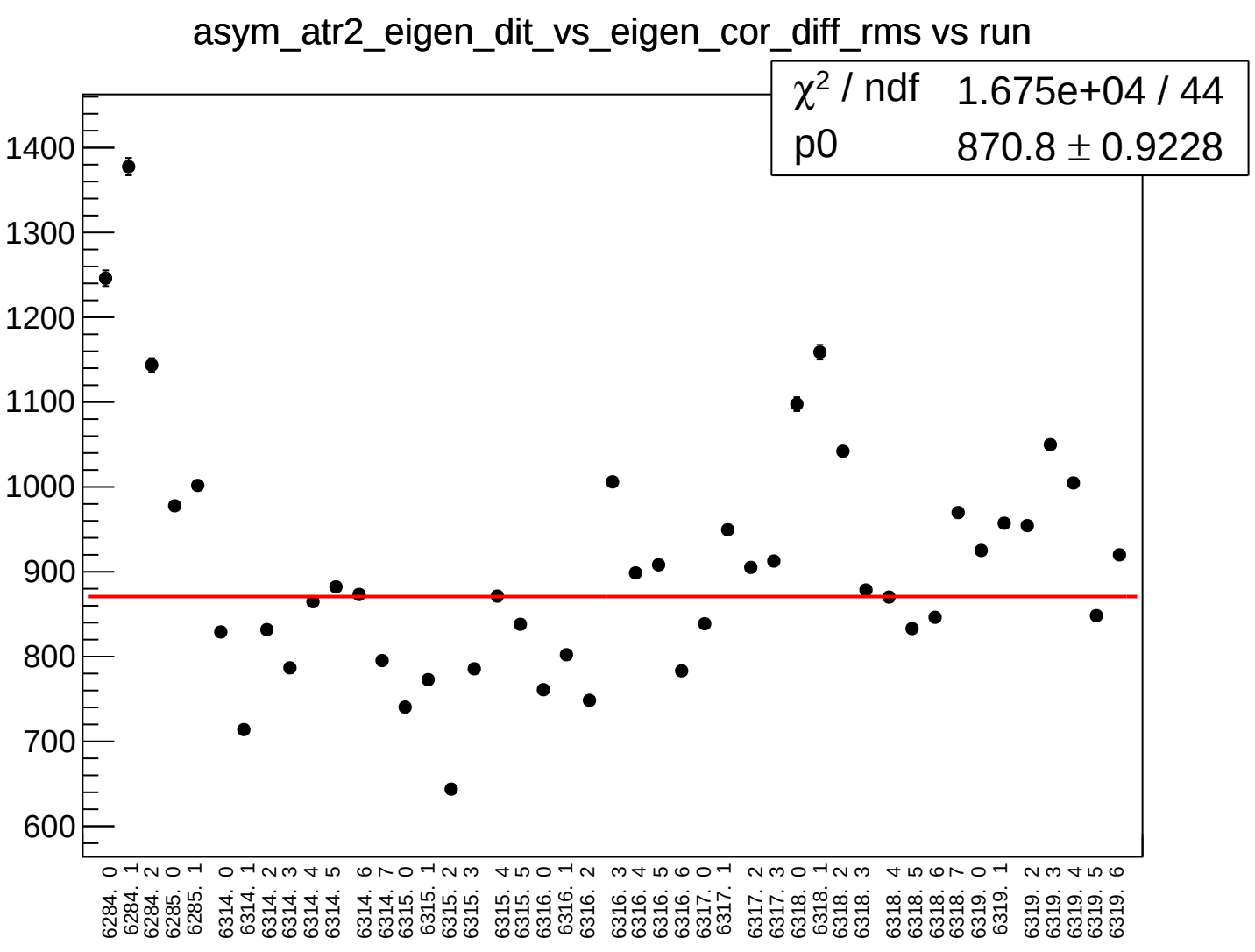

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 870.8 ± 0.9228
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

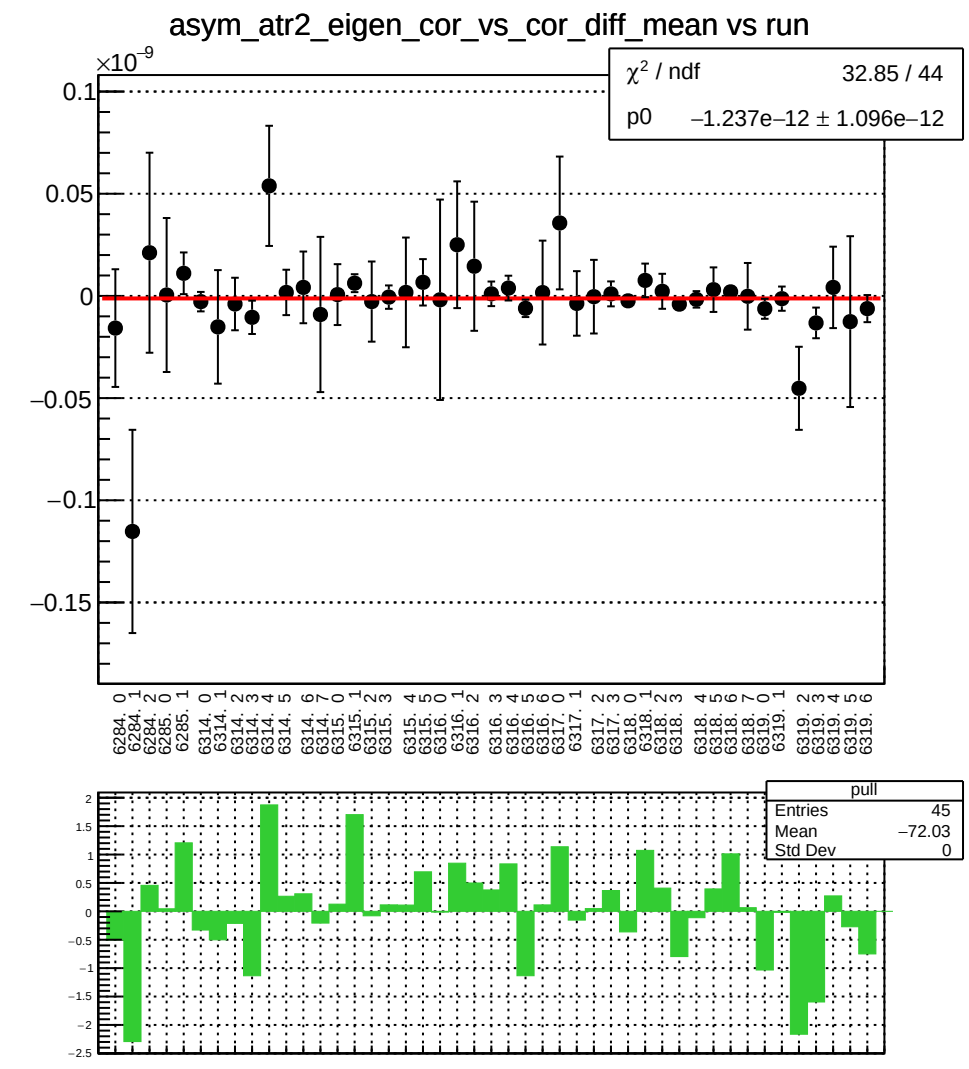
asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run

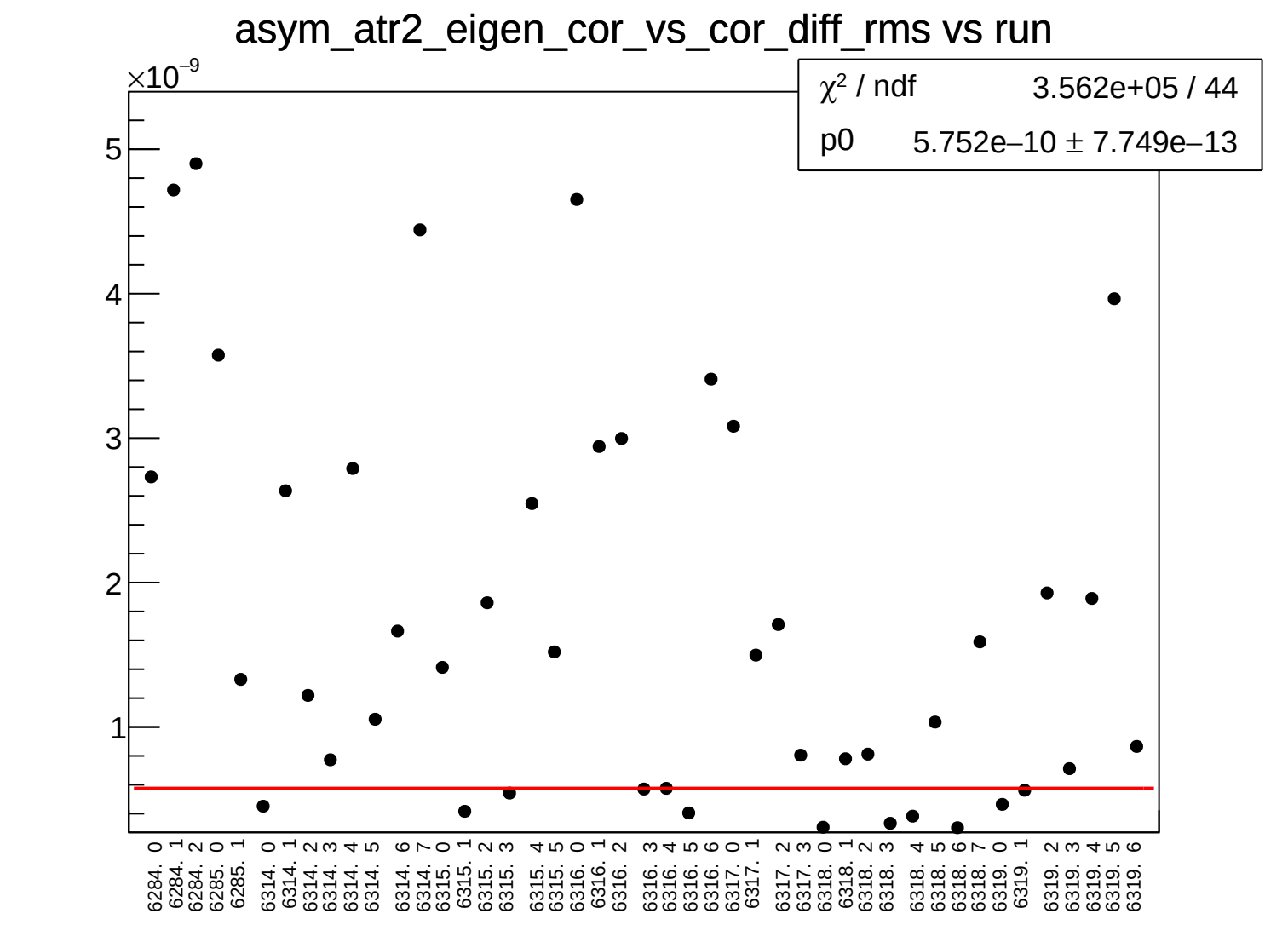


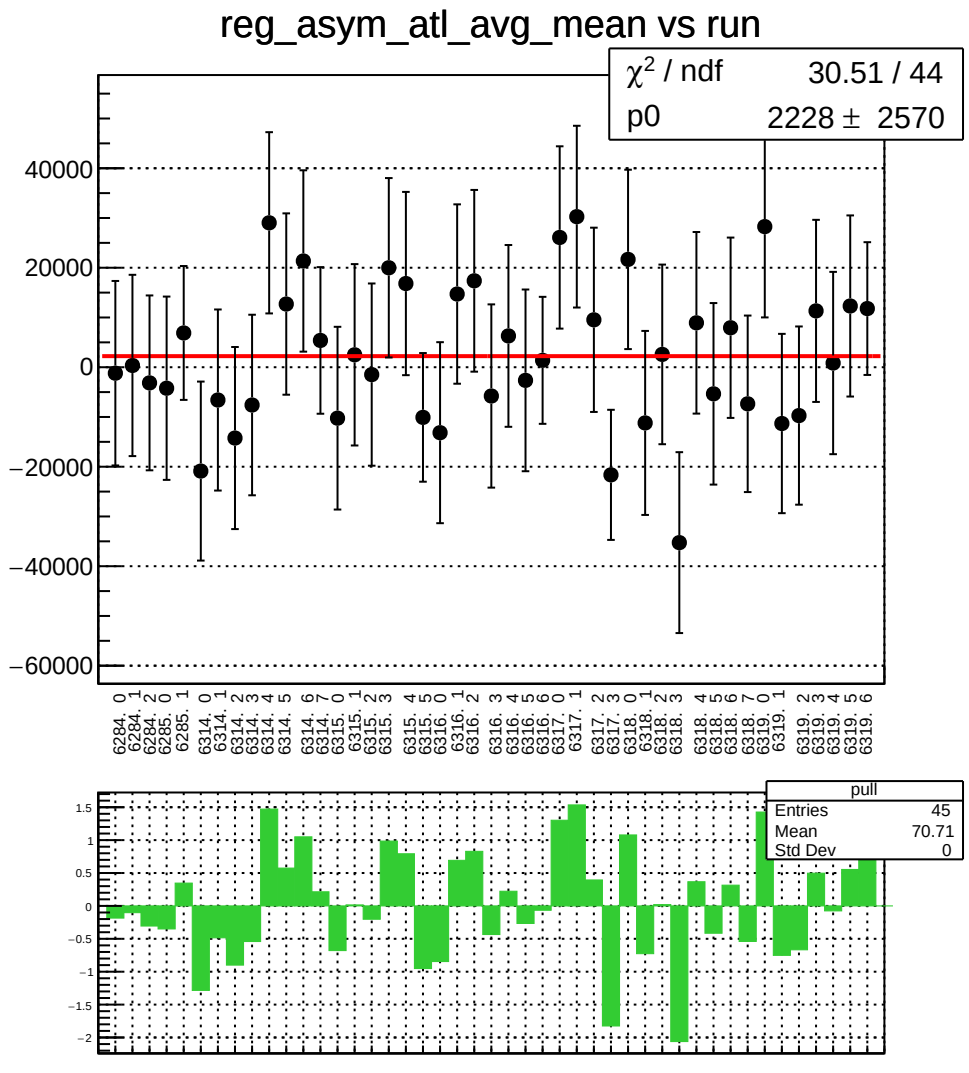


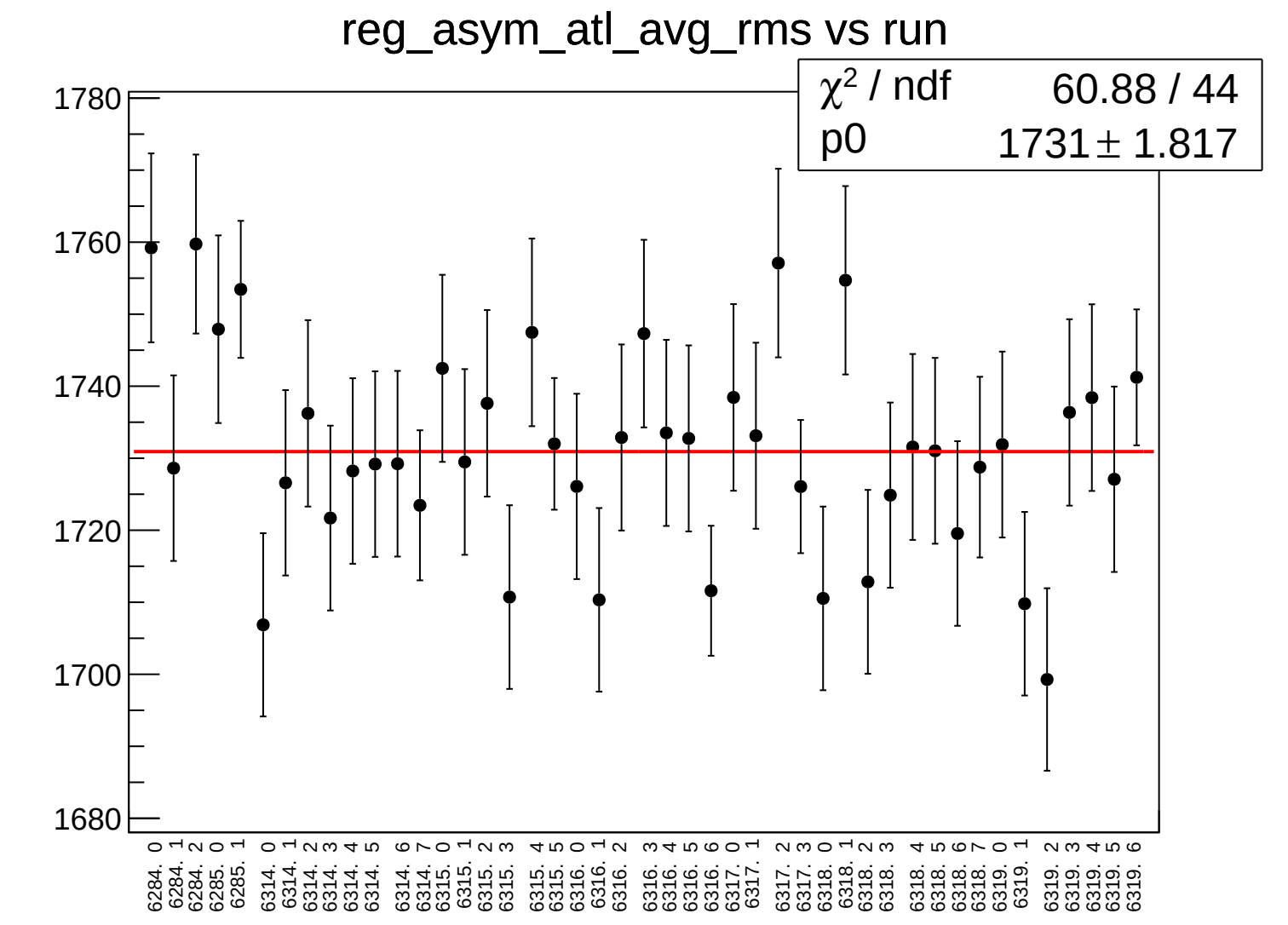


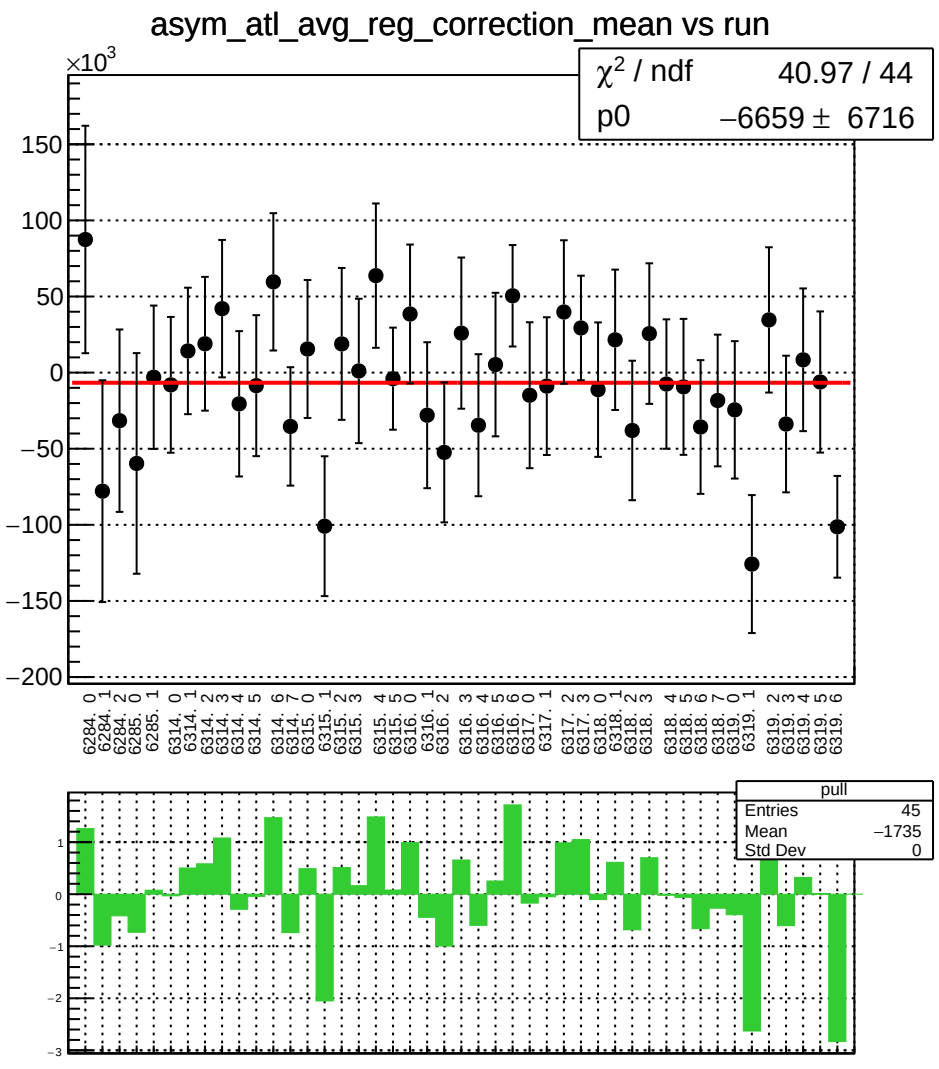

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 870.8 ± 0.9228
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

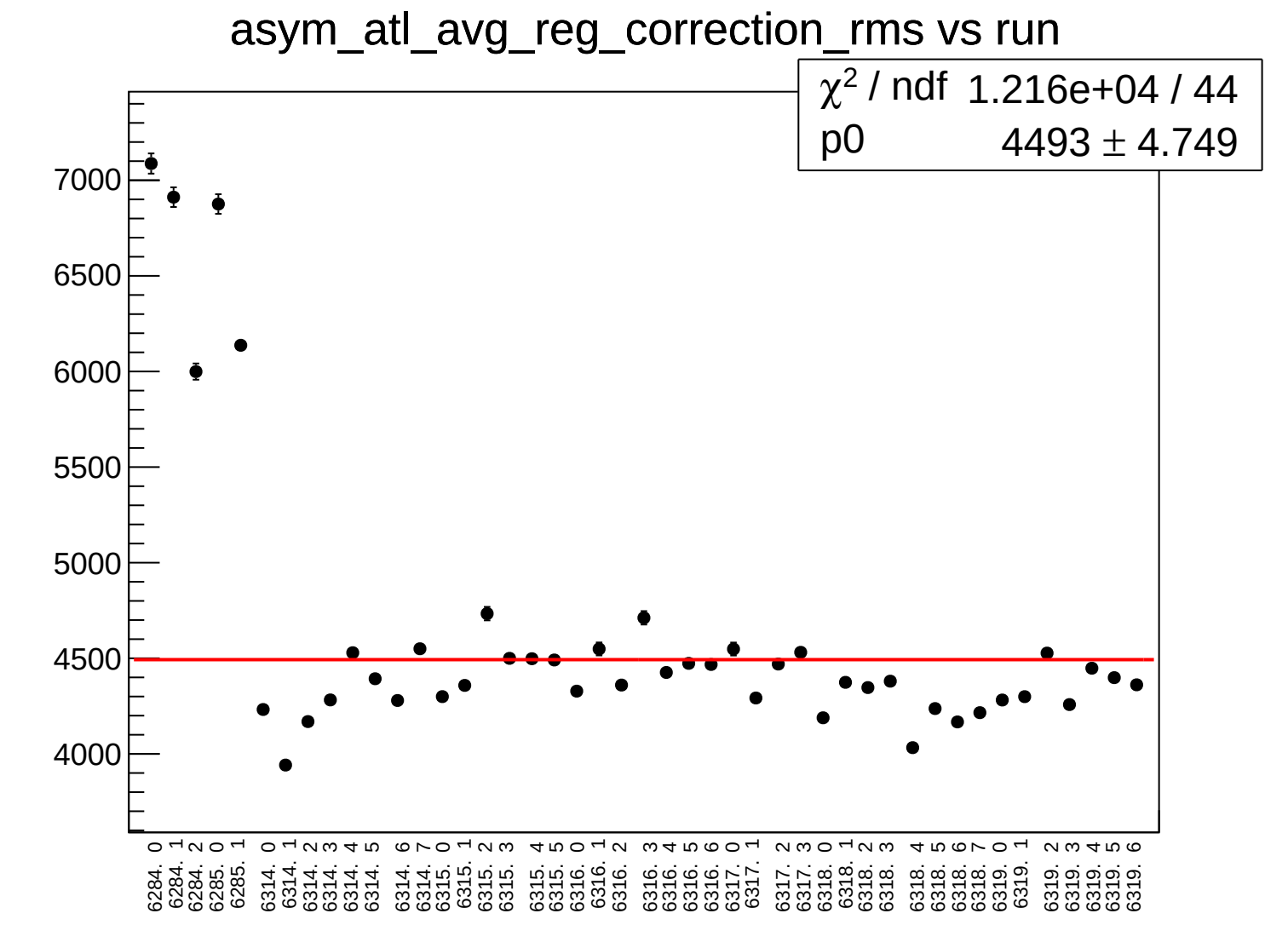

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 32.85 / 44
p0 −1.237e−12 ± 1.096e−12
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −72.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01536
Std Dev 0.8543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

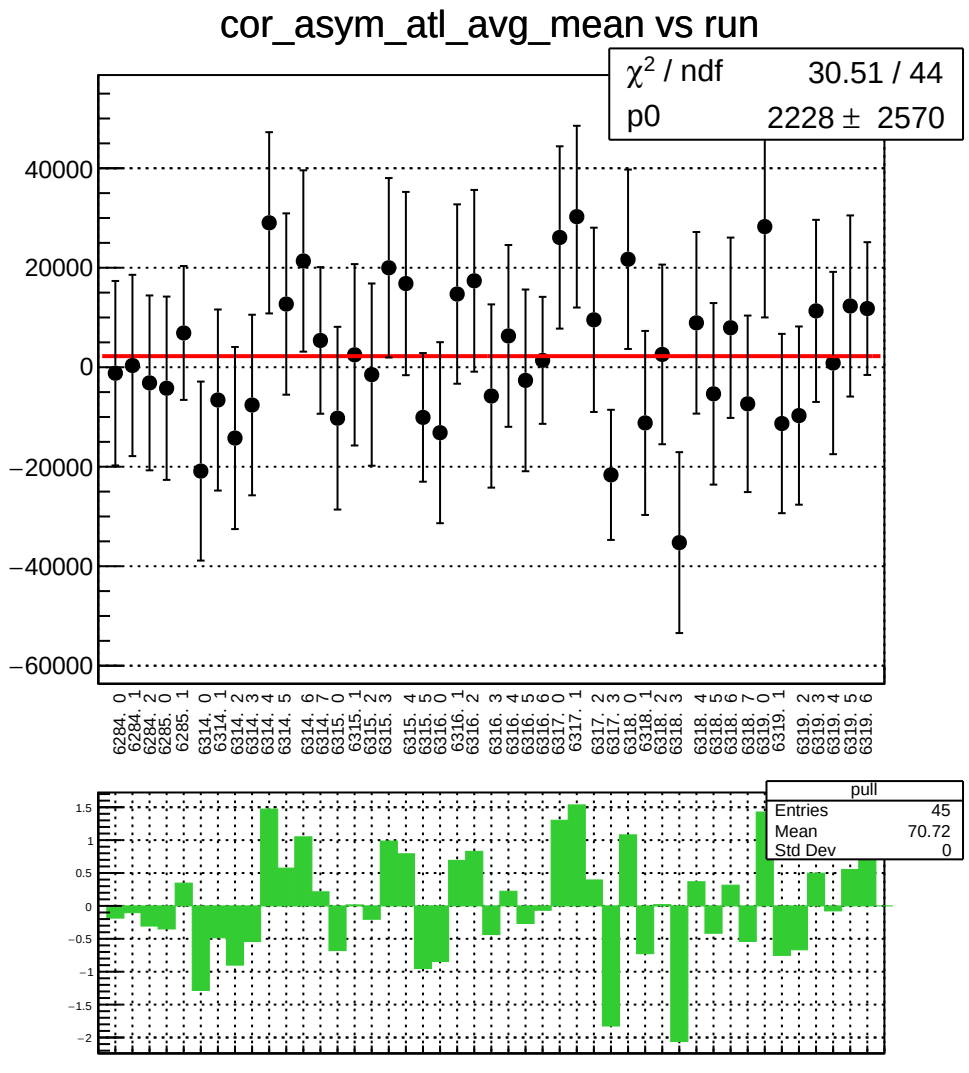

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.562e+05 / 44
p0 5.752e−10 ± 7.749e−13
5
4
3
2
1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

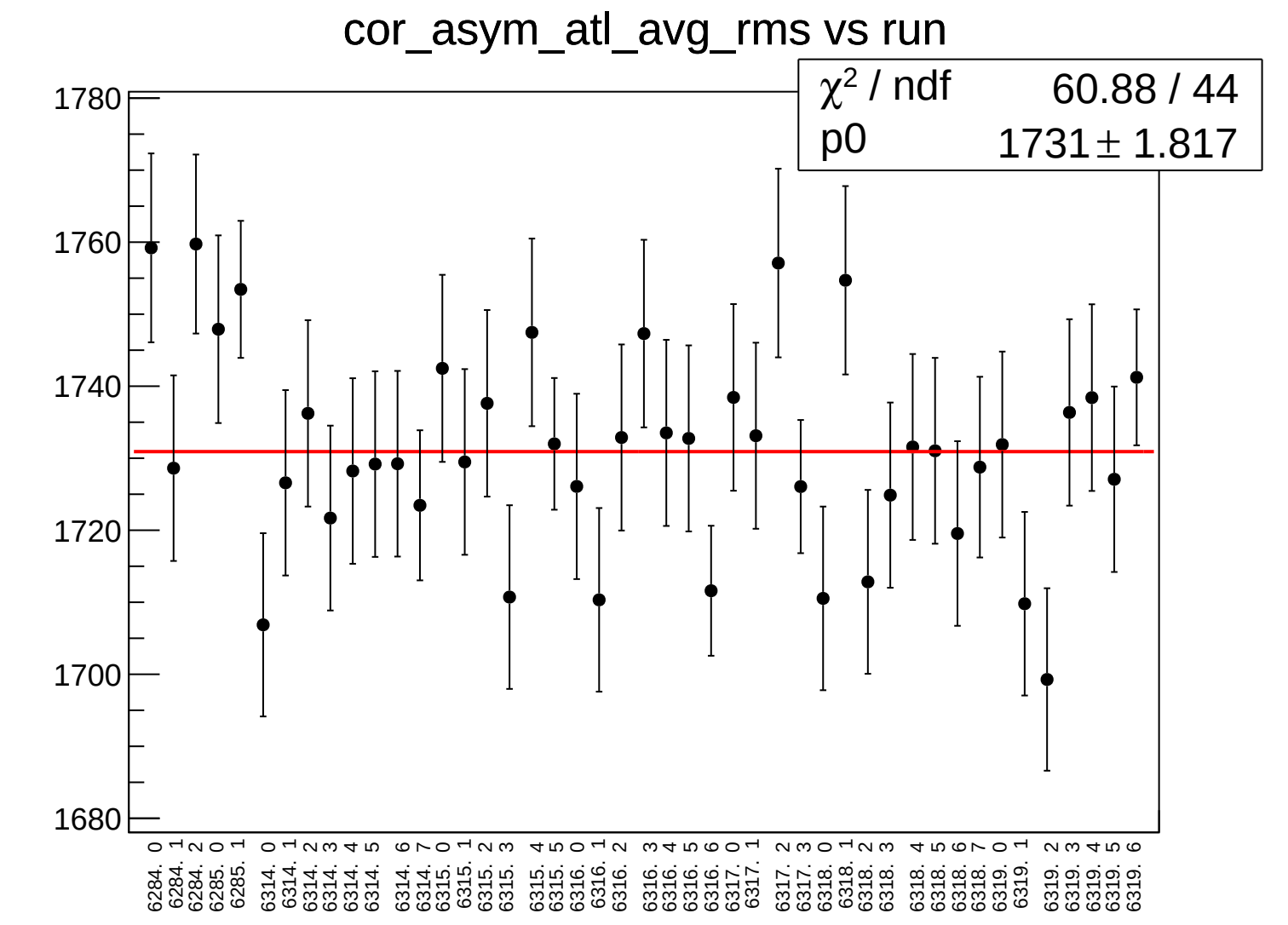

reg_asym_atl_avg_mean vs run
χ² / ndf 30.51 / 44
p0 2228 ± 2570
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 70.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01643
Std Dev 0.8232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ² / ndf 60.88 / 44
p0 1731 ± 1.817
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −6659 ± 6716
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1735
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.001487
Std Dev 0.9542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.216e+04 / 44
p0 4493 ± 4.749
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl_avg_mean vs run
χ² / ndf 30.51 / 44
p0 2228 ± 2570
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 70.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01643
Std Dev 0.8232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_rms vs run
χ² / ndf 60.88 / 44
p0 1731 ± 1.817
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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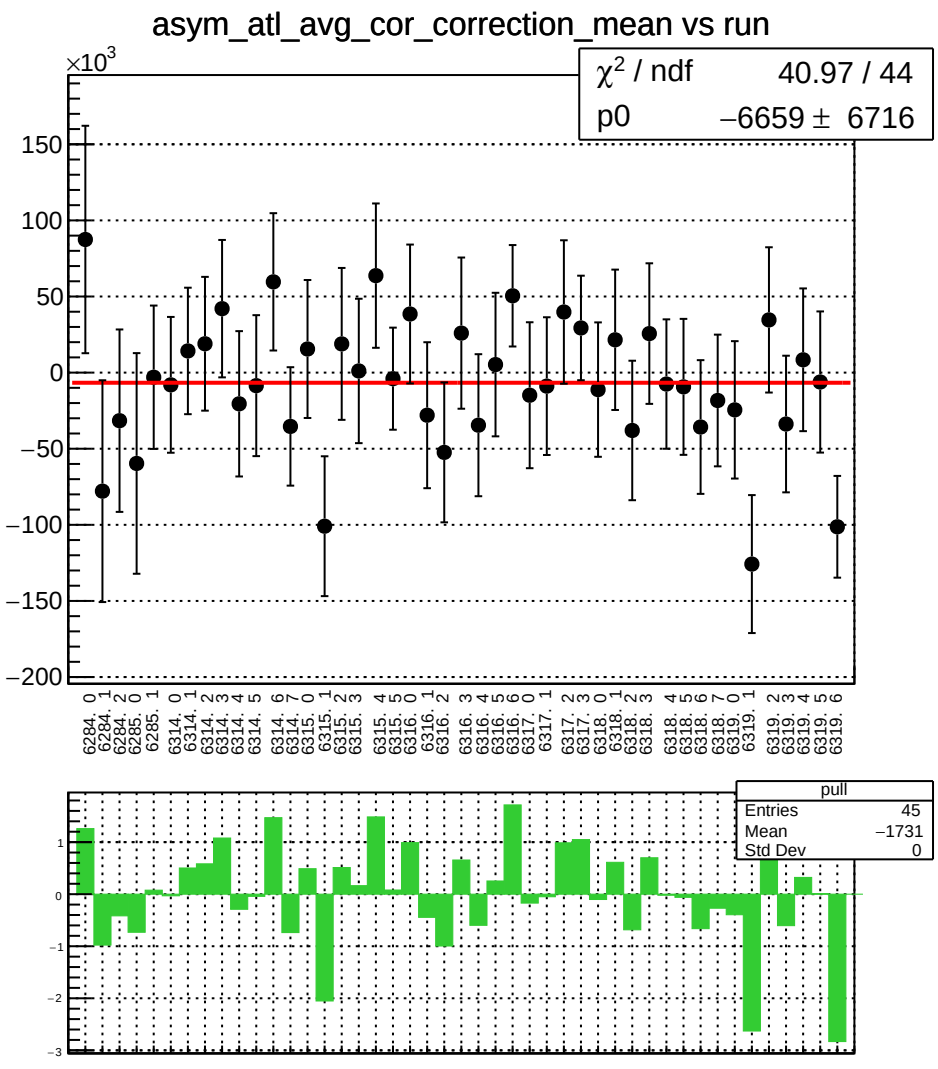
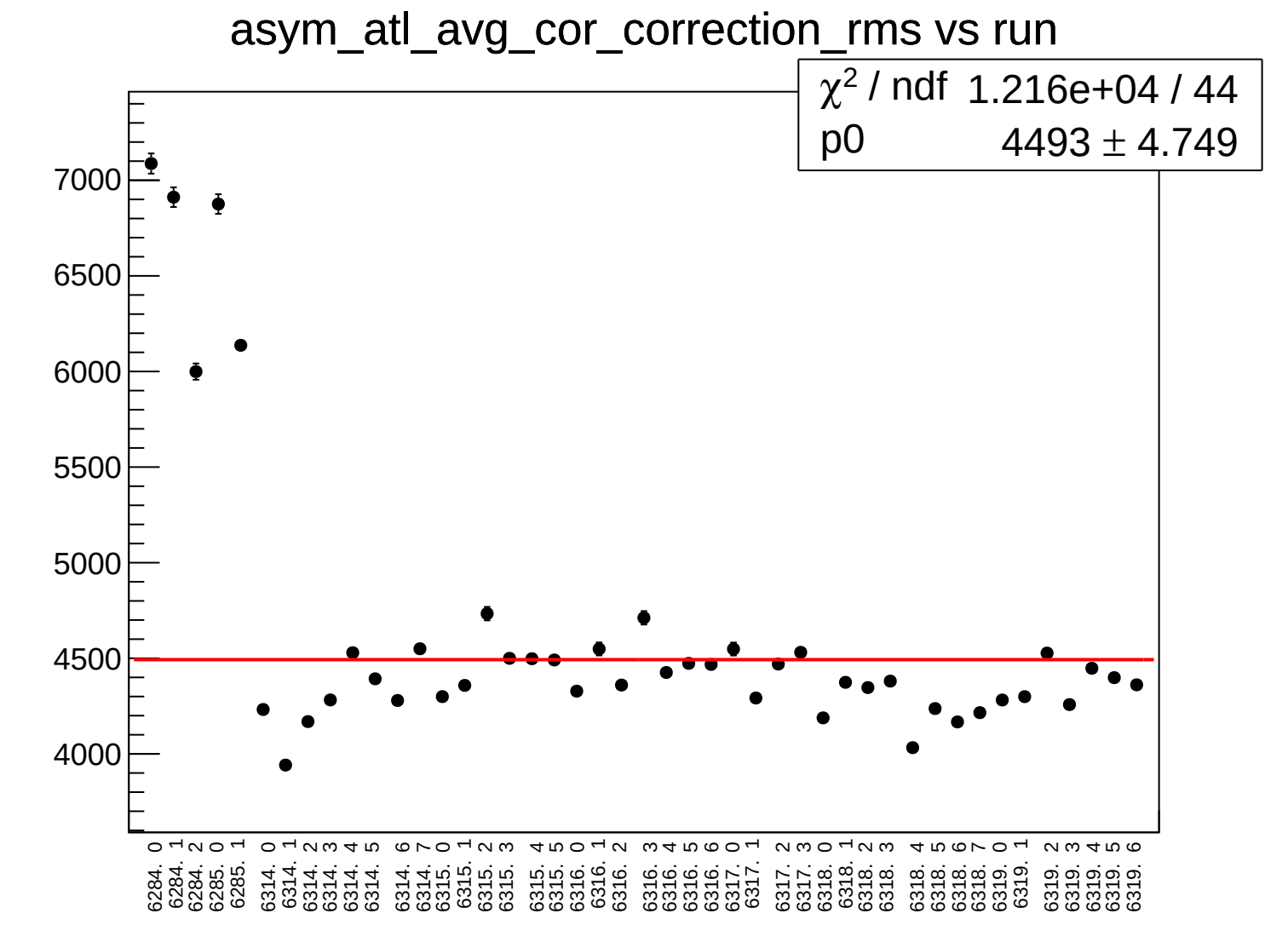
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −6659 ± 6716
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1731
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.00149
Std Dev 0.9542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.216e+04 / 44
p0 4493 ± 4.749
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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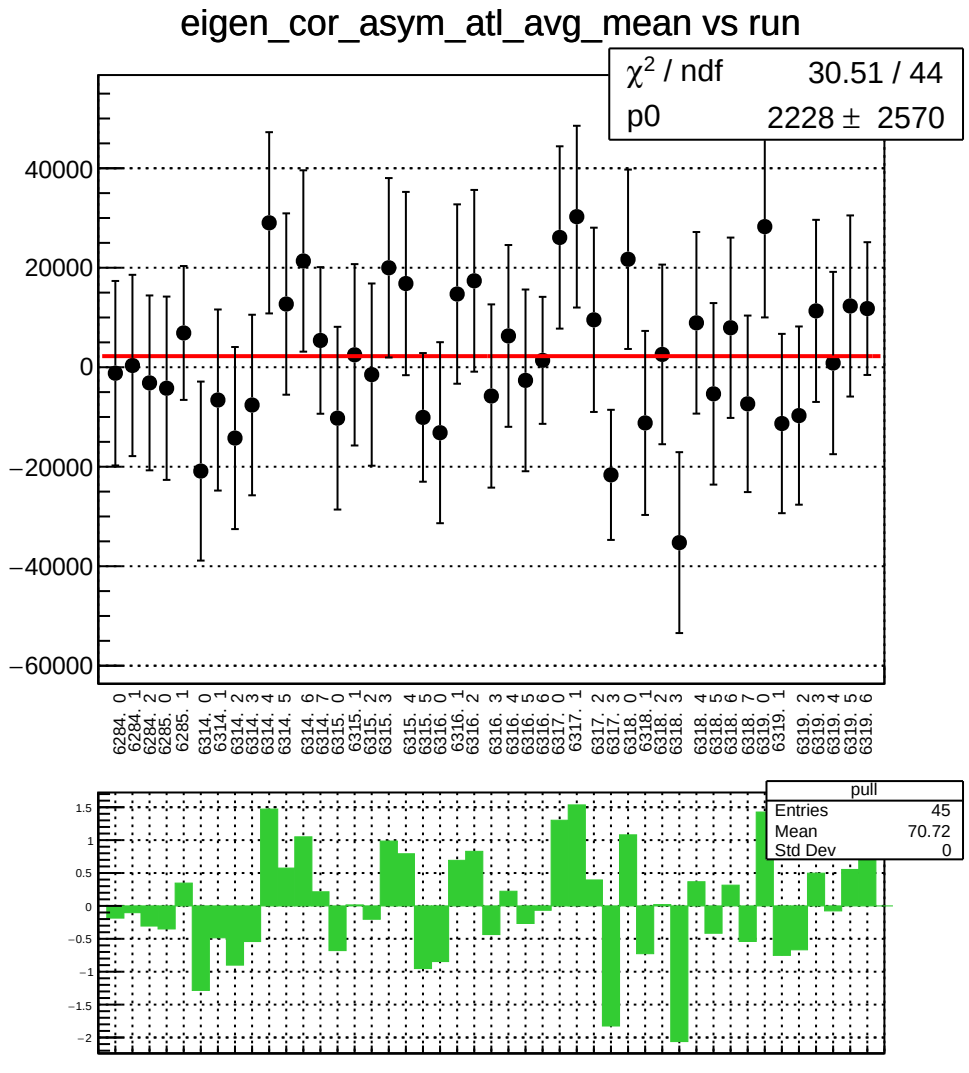
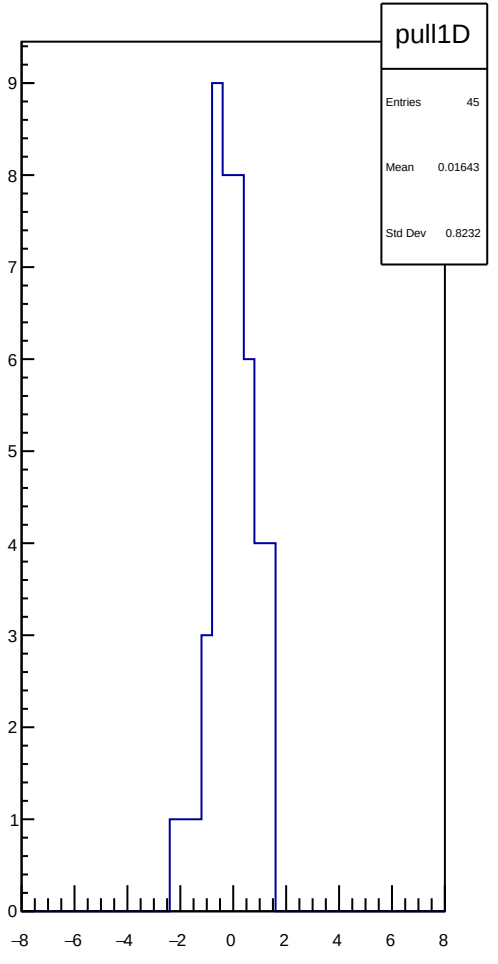
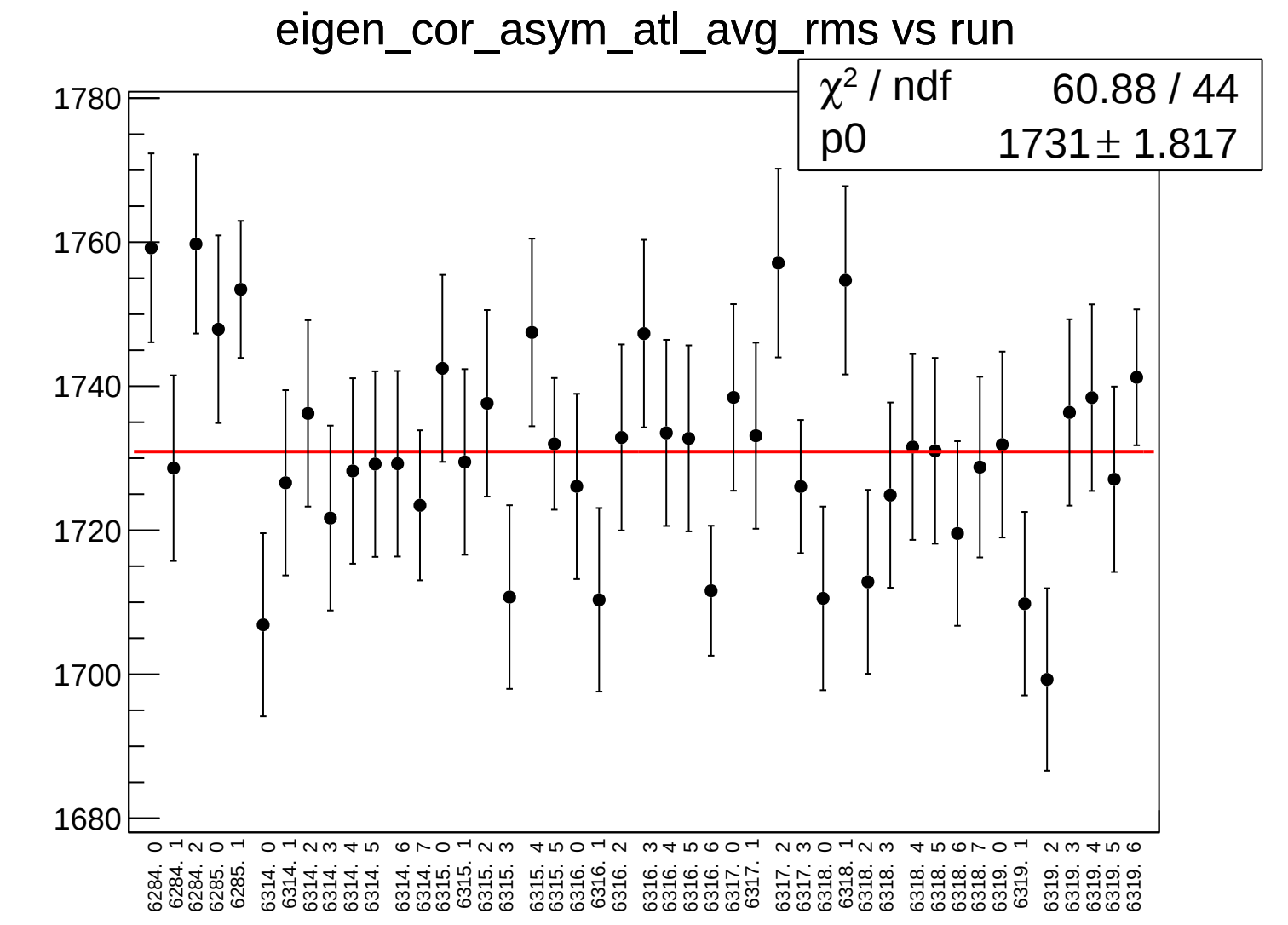
6319. 5
6319. 6


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 30.51 / 44
p0 2228 ± 2570
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 70.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01643
Std Dev 0.8232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 60.88 / 44
p0 1731 ± 1.817
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
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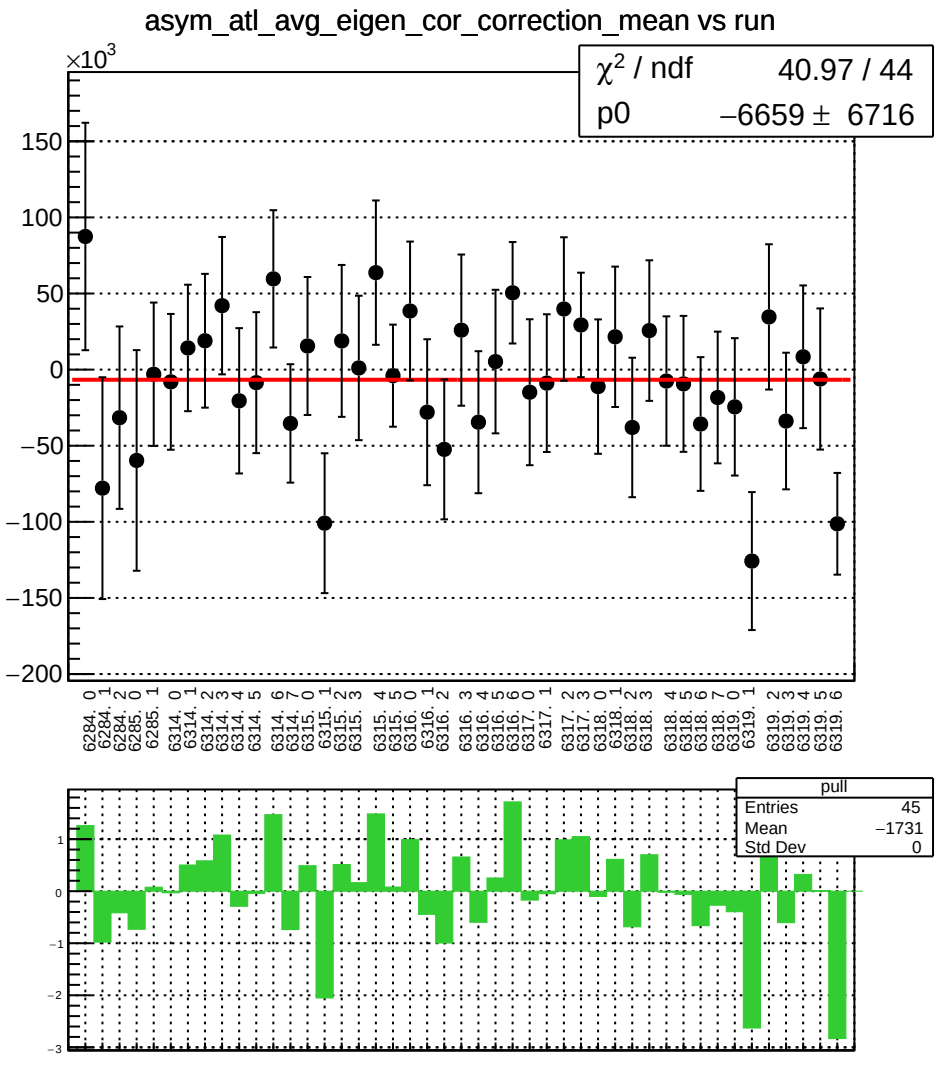
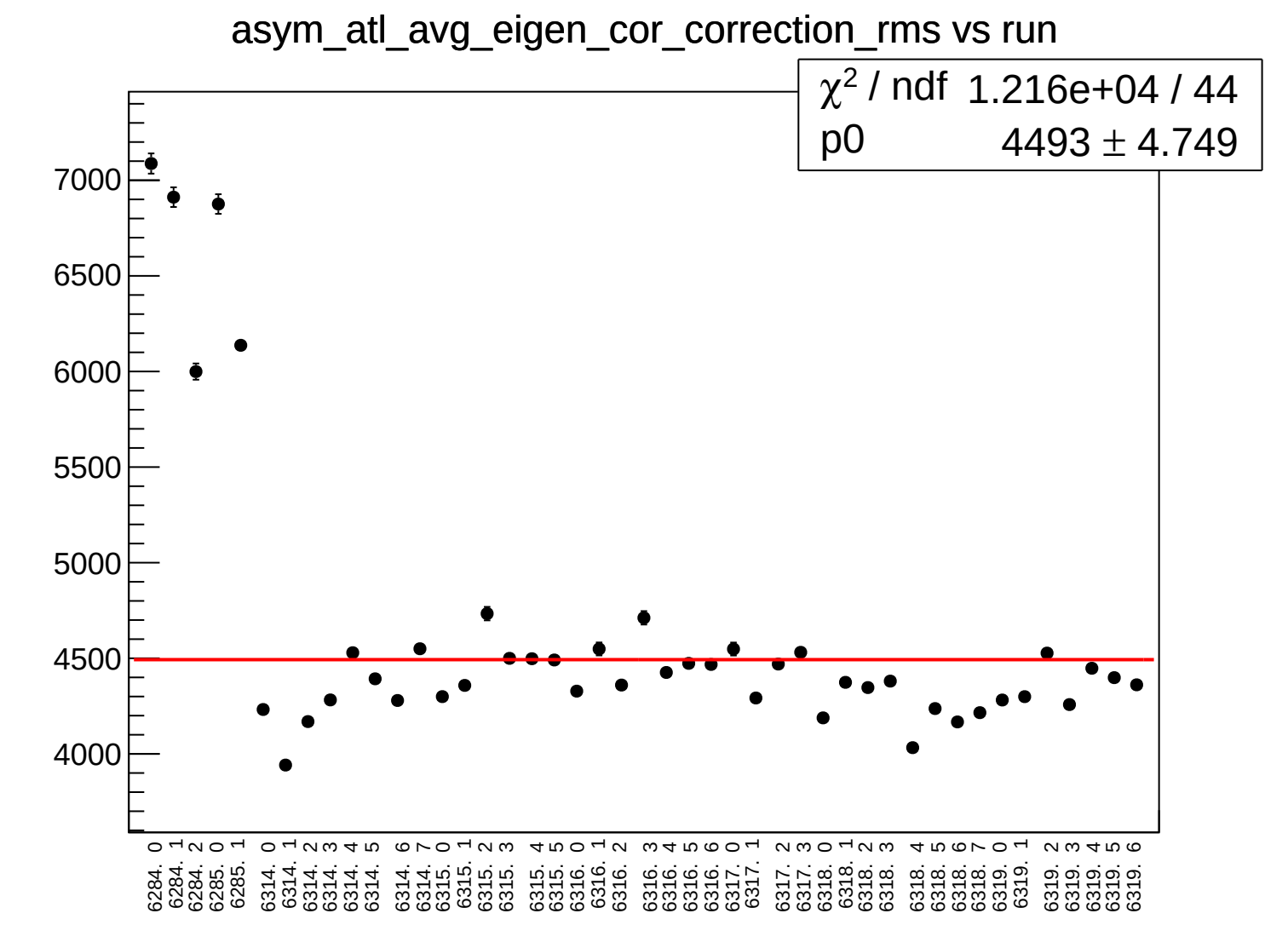
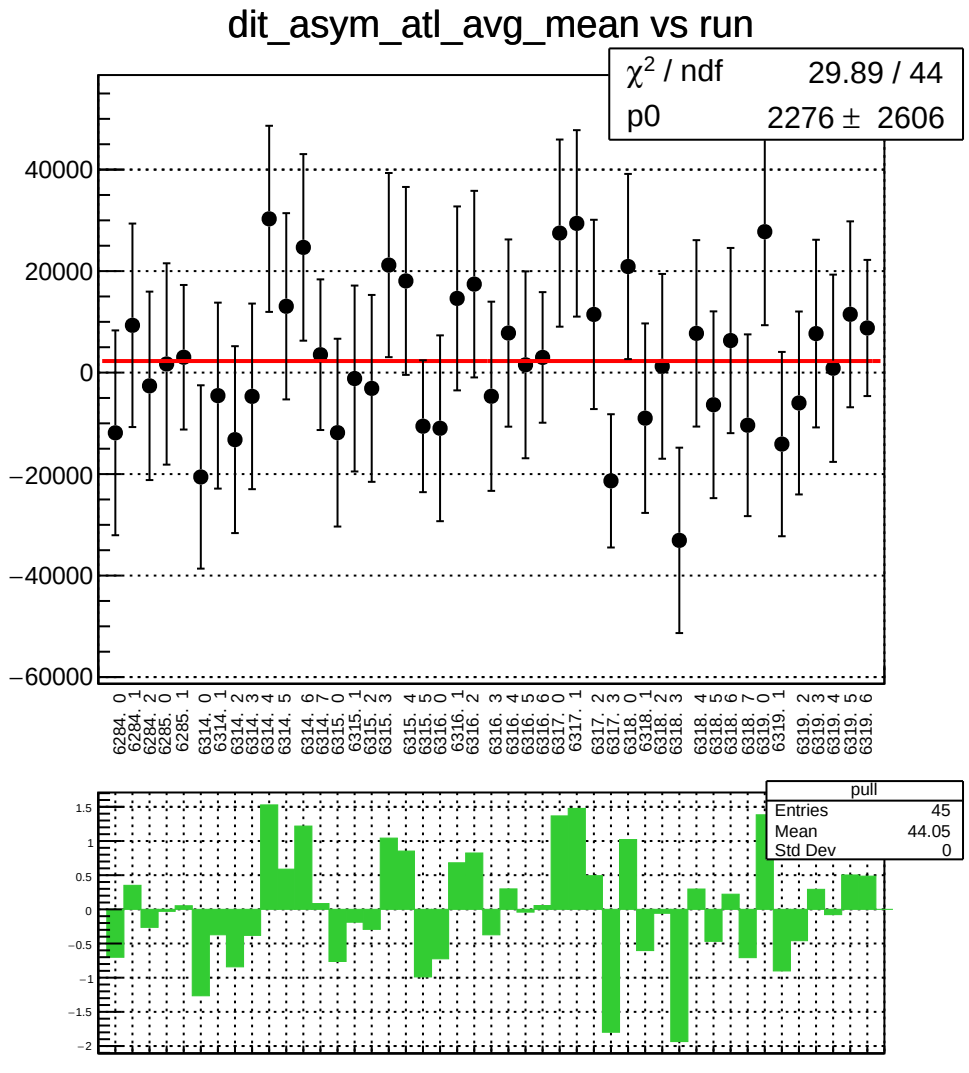
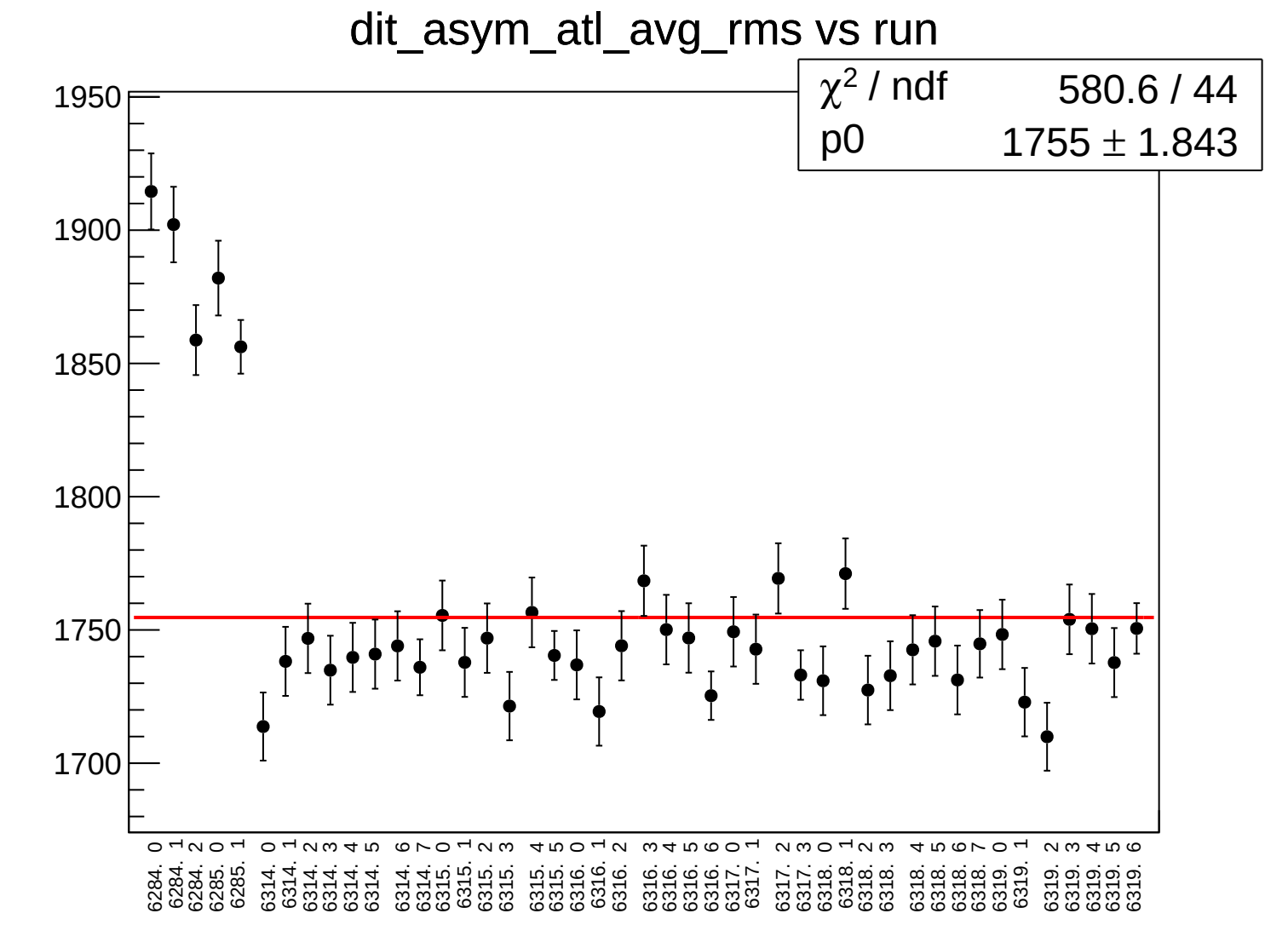
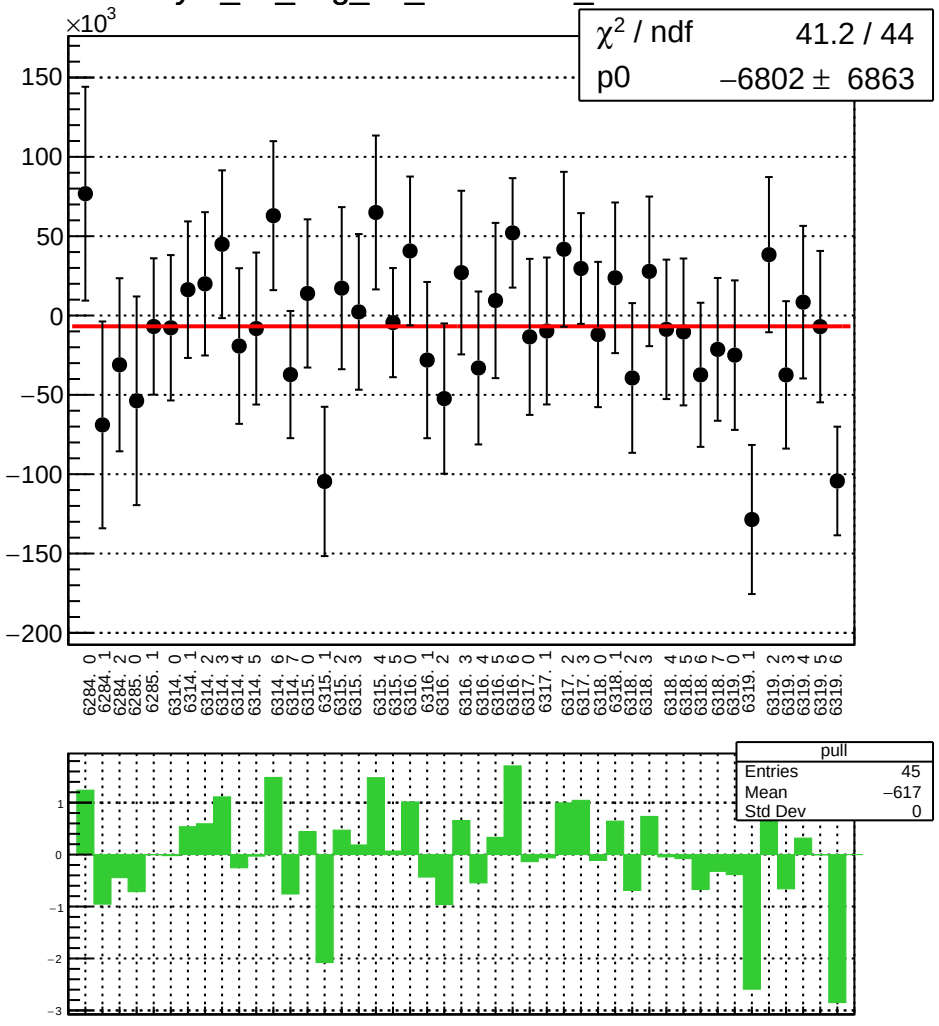
6319. 6

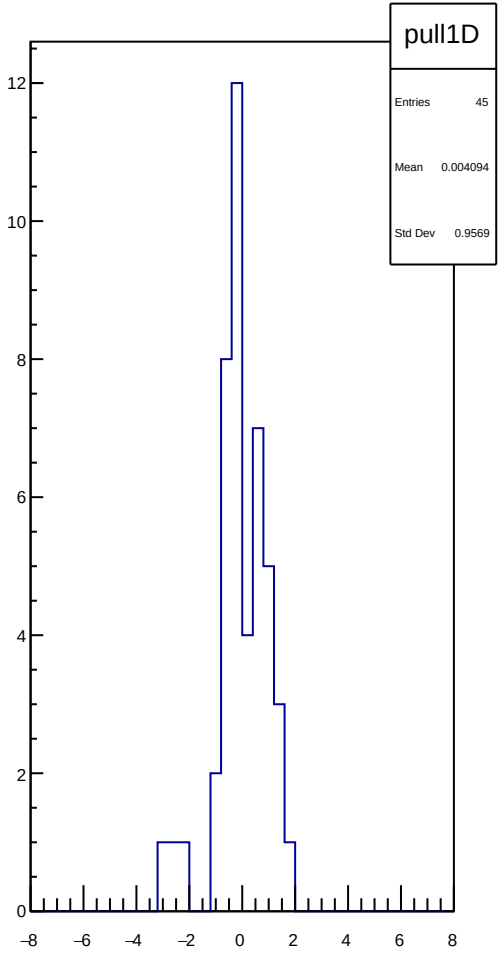

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −6659 ± 6716
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1731
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.00149
Std Dev 0.9542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

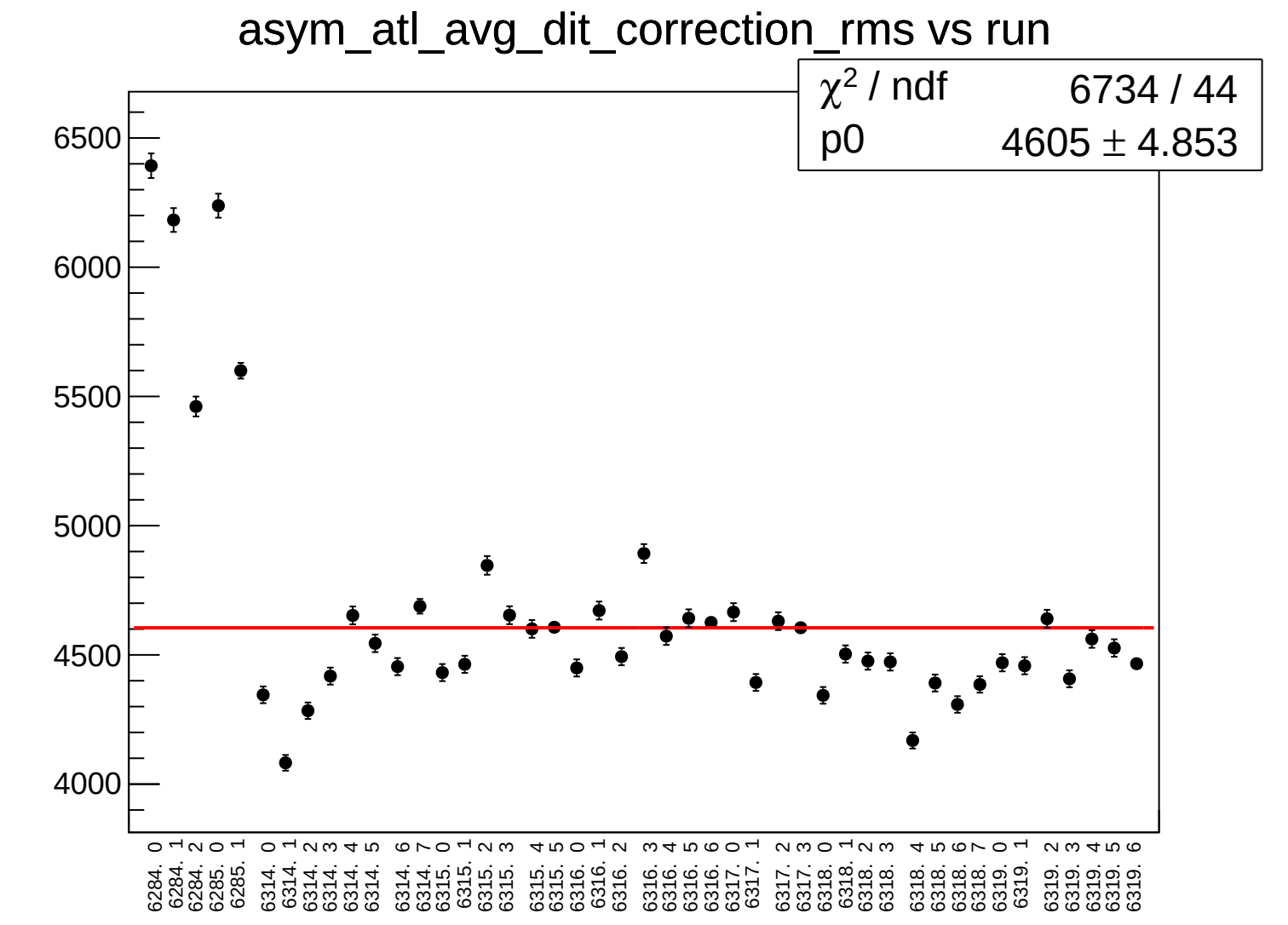

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.216e+04 / 44
p0 4493 ± 4.749
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

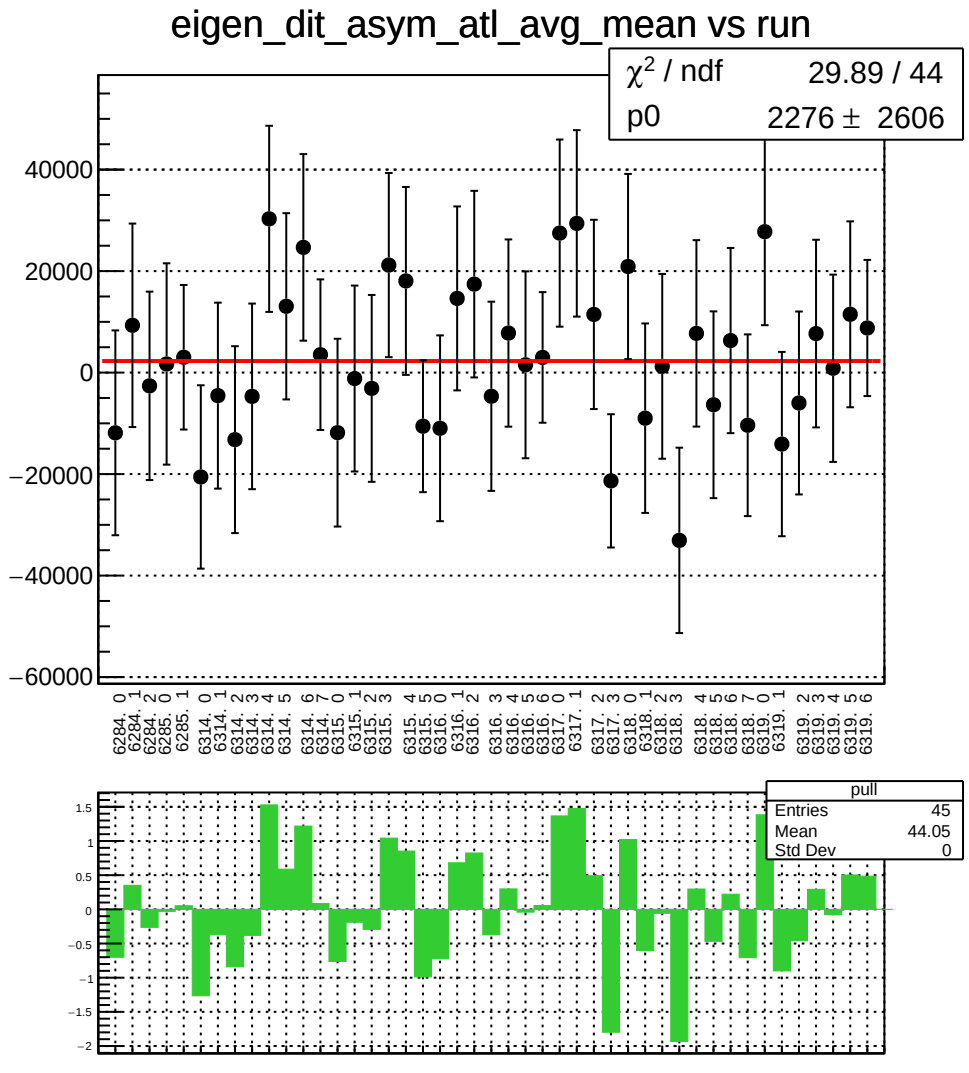

dit_asym_atl_avg_mean vs run
χ² / ndf 29.89 / 44
p0 2276 ± 2606
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01987
Std Dev 0.8148
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

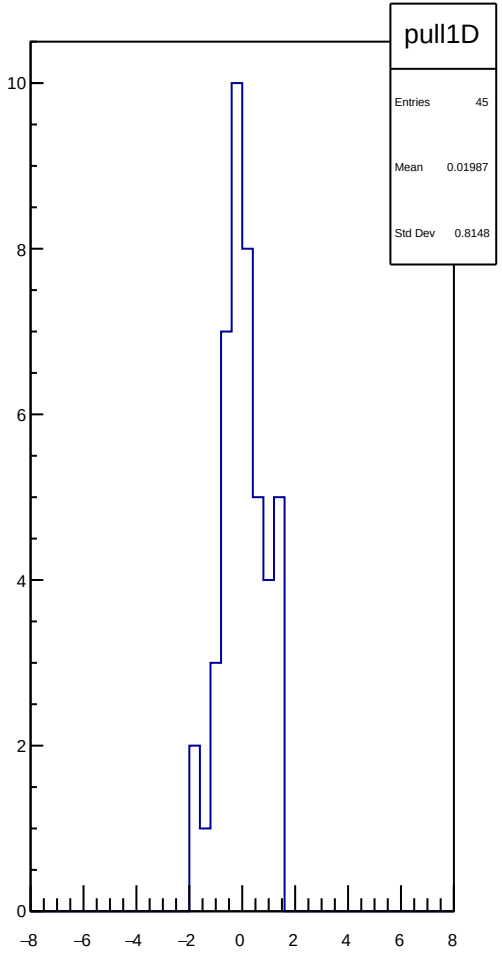

dit_asym_atl_avg_rms vs run
χ² / ndf 580.6 / 44
p0 1755 ± 1.843
1950
1900
1850
1800
1750
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

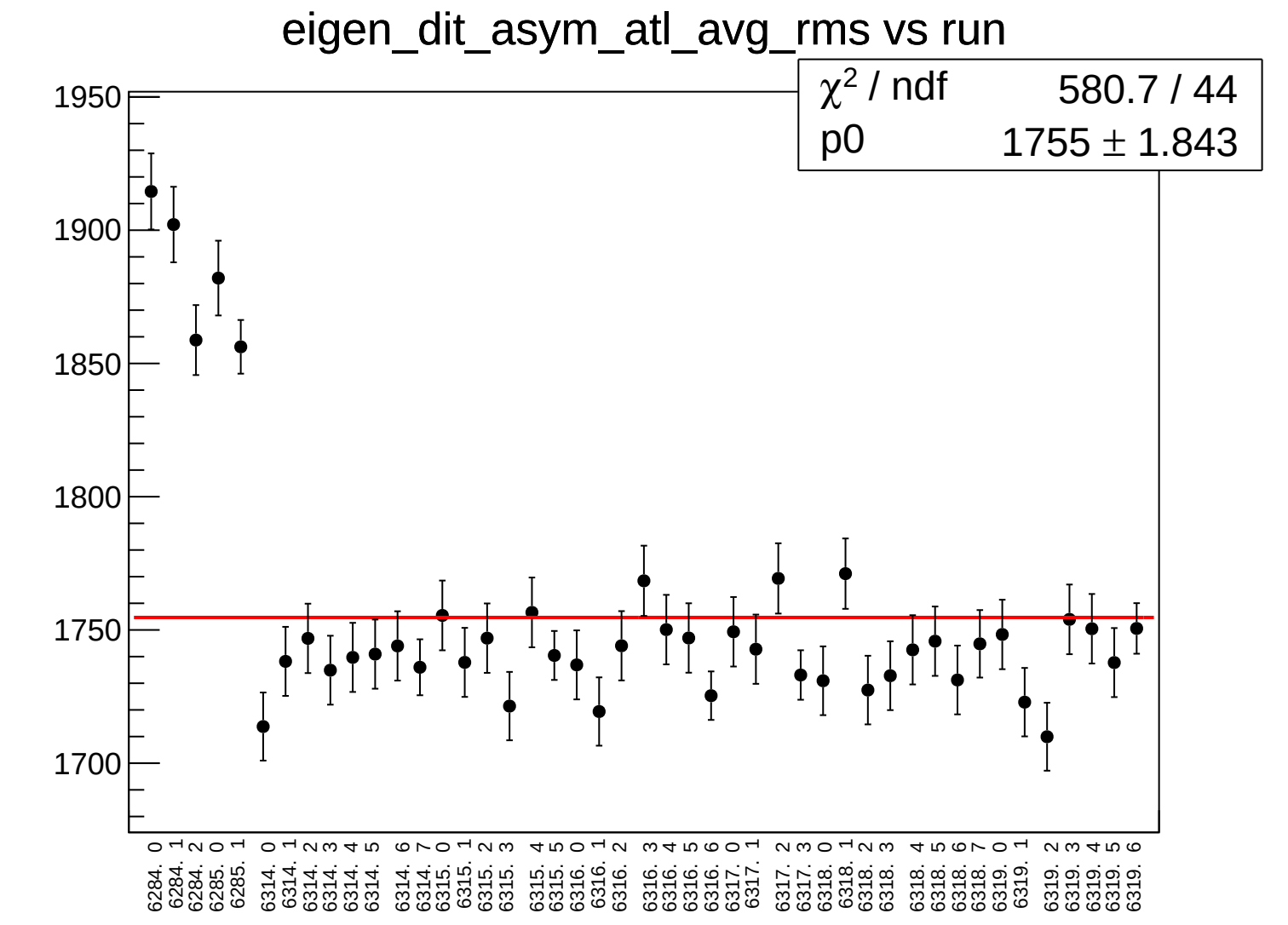

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.2 / 44
p0 −6802 ± 6863
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −617
Std Dev 0
1
0
−1
−2
−3

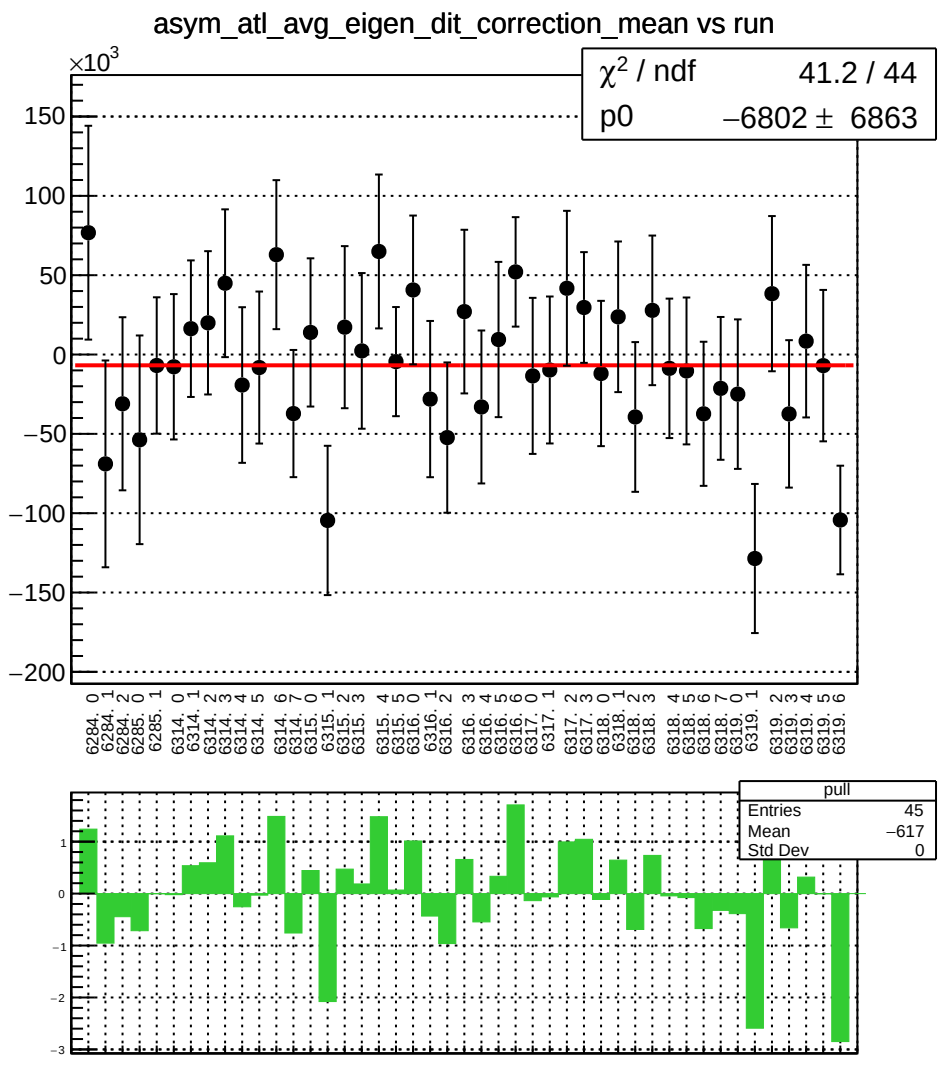

pull1D
Entries 45
Mean 0.004094
Std Dev 0.9569
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

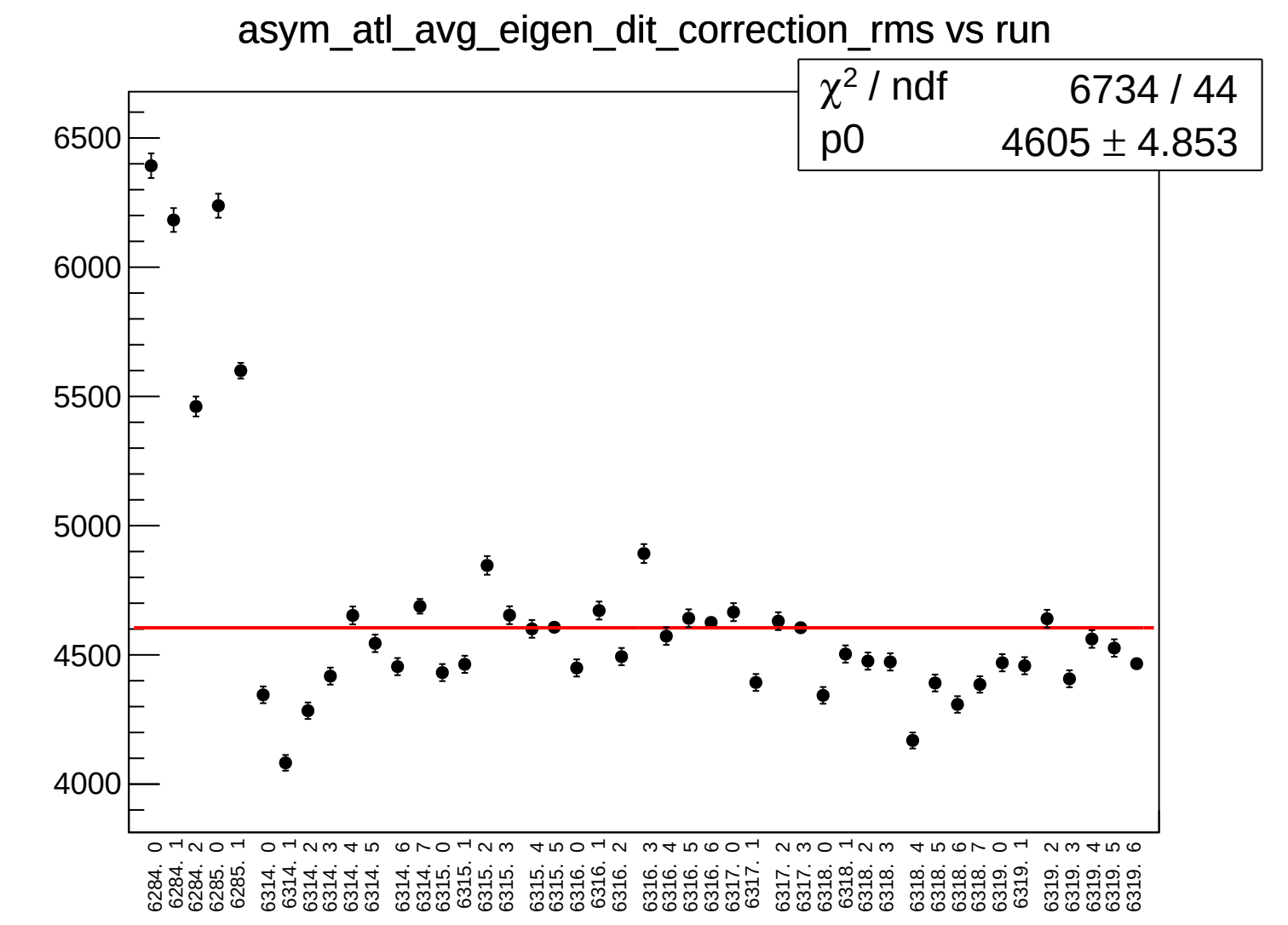

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 6734 / 44
p0 4605 ± 4.853
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 29.89 / 44
p0 2276 ± 2606
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01987
Std Dev 0.8148
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 580.7 / 44
p0 1755 ± 1.843
1950
1900
1850
1800
1750
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.2 / 44
p0 −6802 ± 6863
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −617
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.004094
Std Dev 0.9569
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 6734 / 44
p0 4605 ± 4.853
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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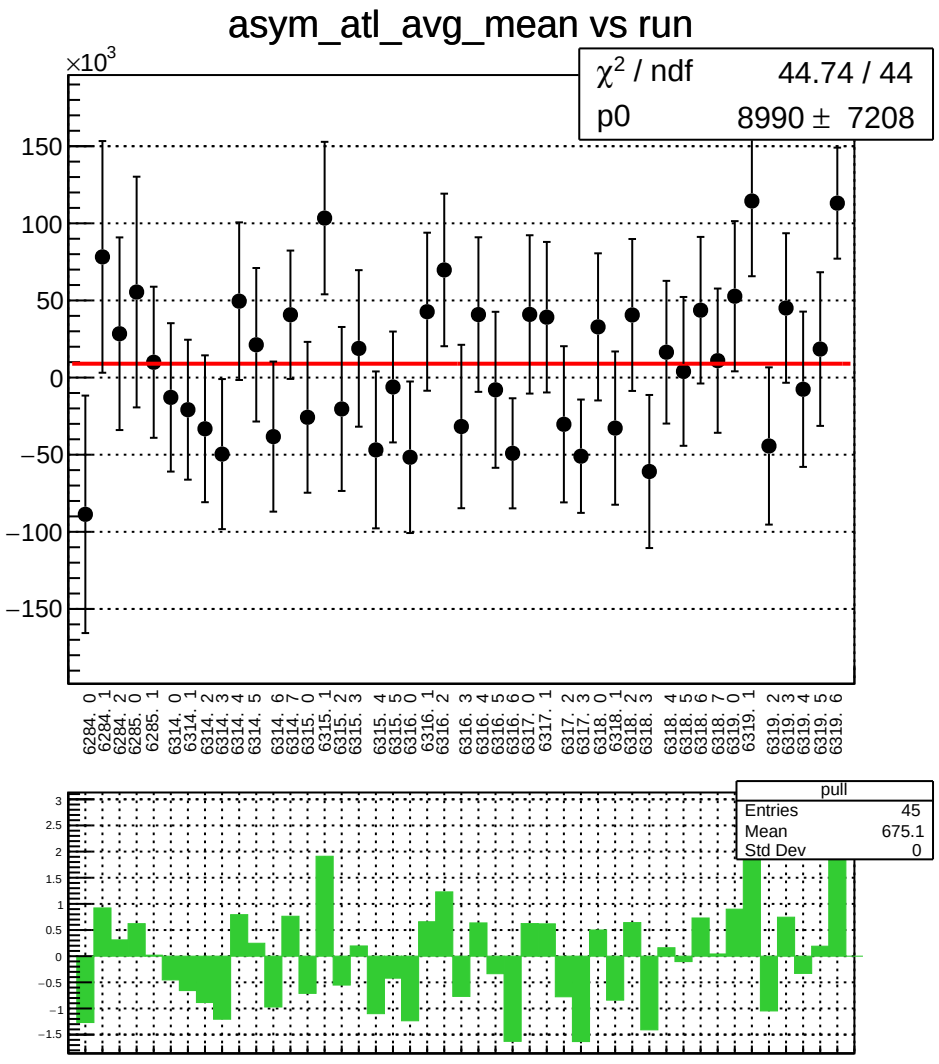
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 44.74 / 44
p0 8990 ± 7208
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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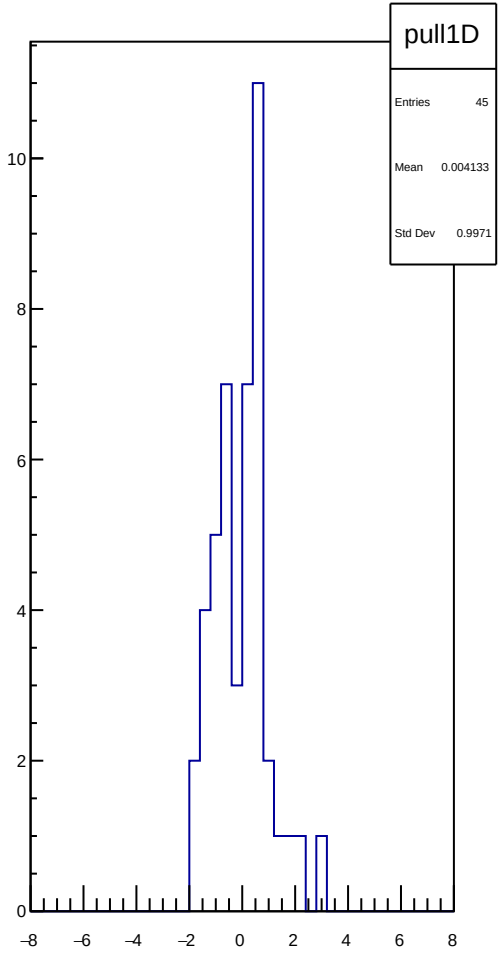
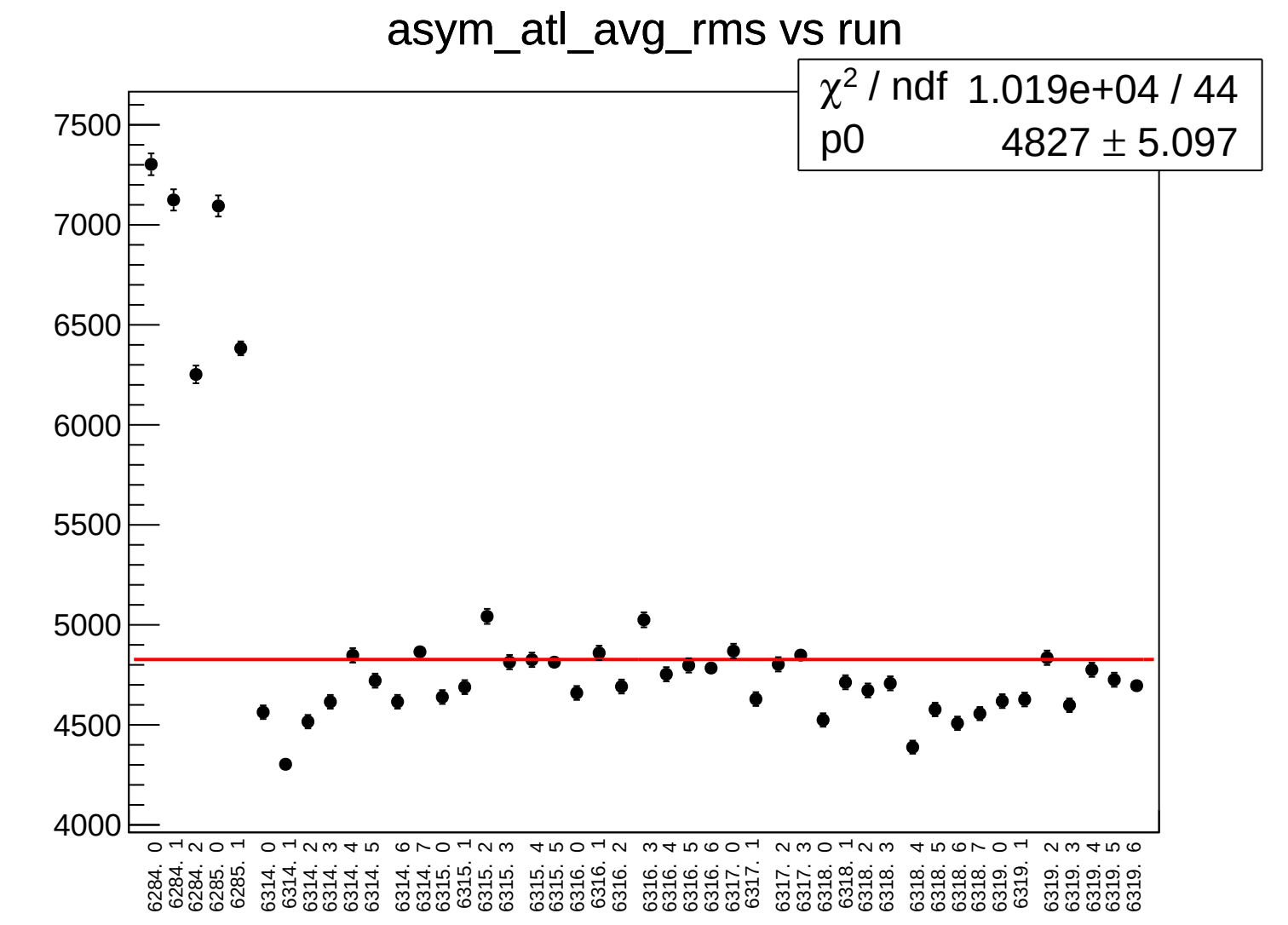
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 675.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.004133
Std Dev 0.9971
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_rms vs run
χ² / ndf 1.019e+04 / 44
p0 4827 ± 5.097
7500
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 2
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6318. 7
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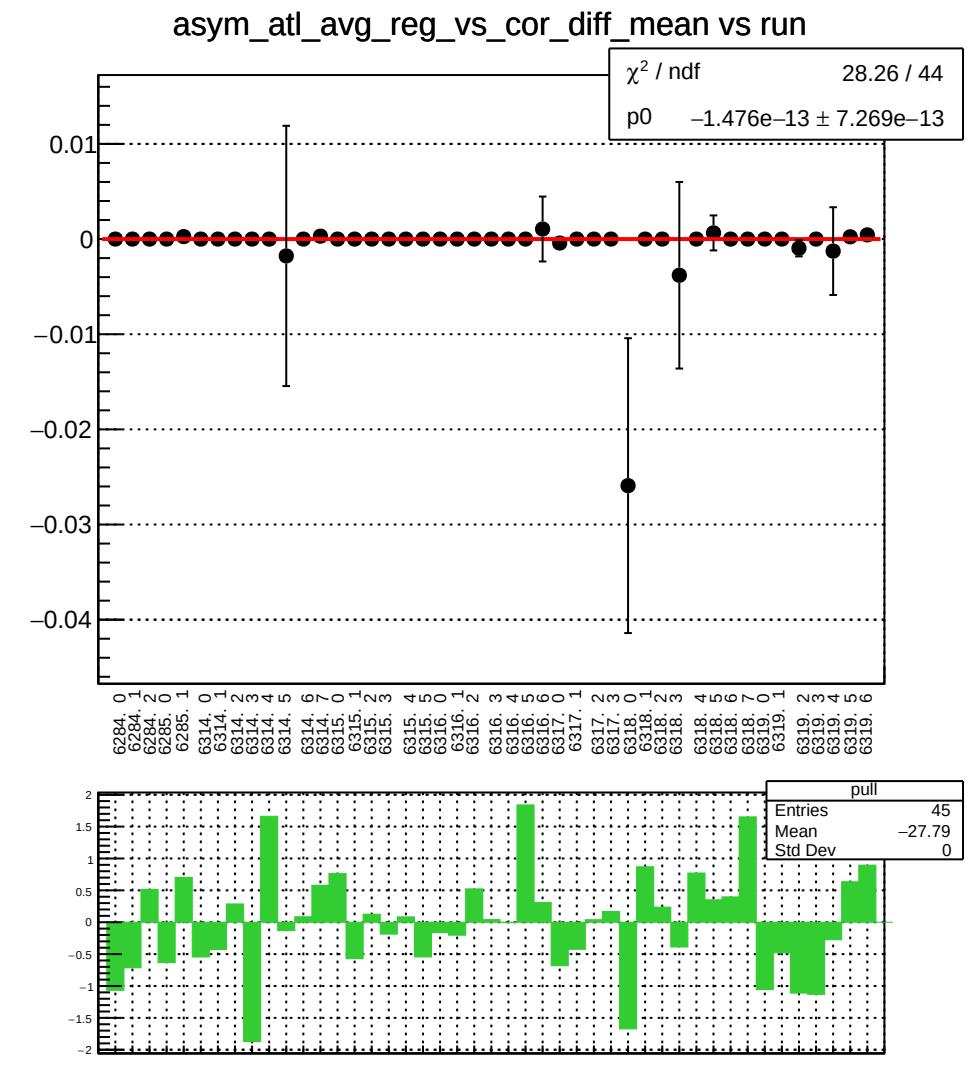
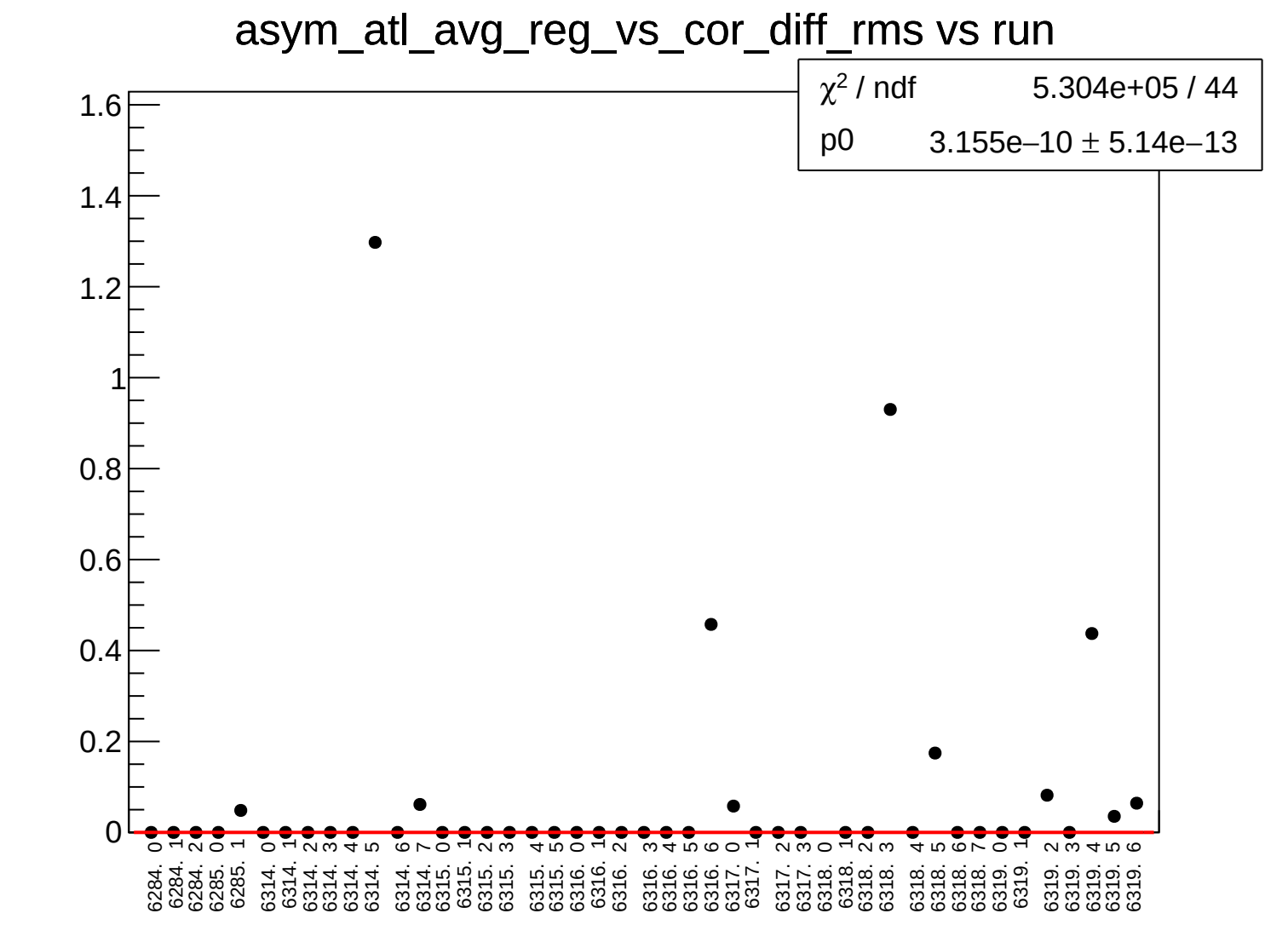
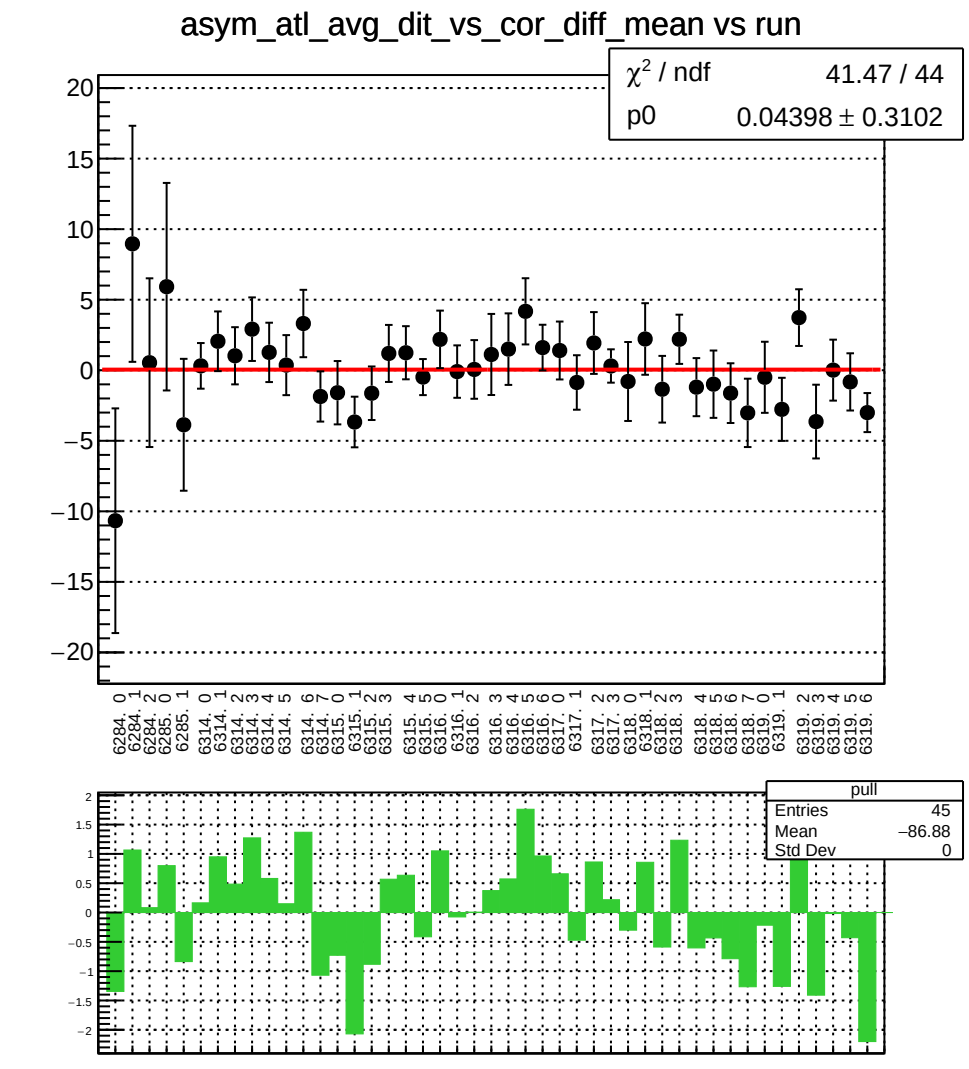
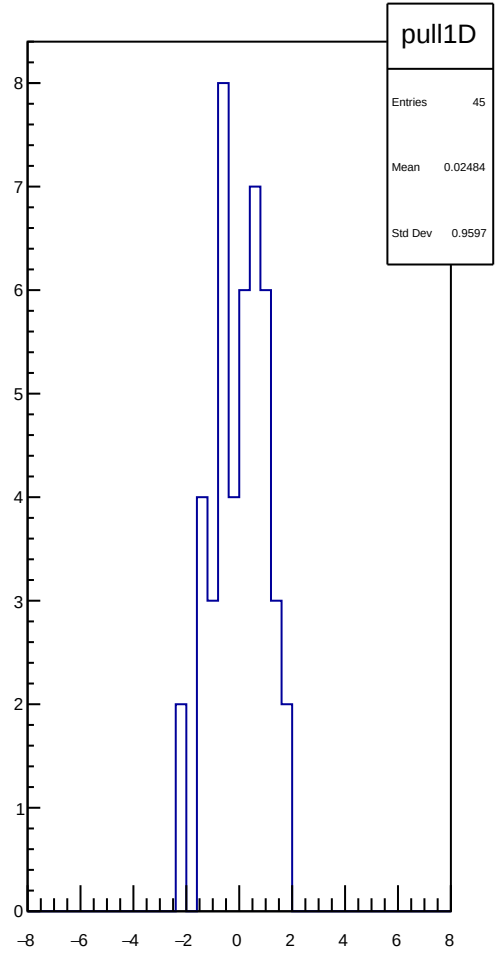
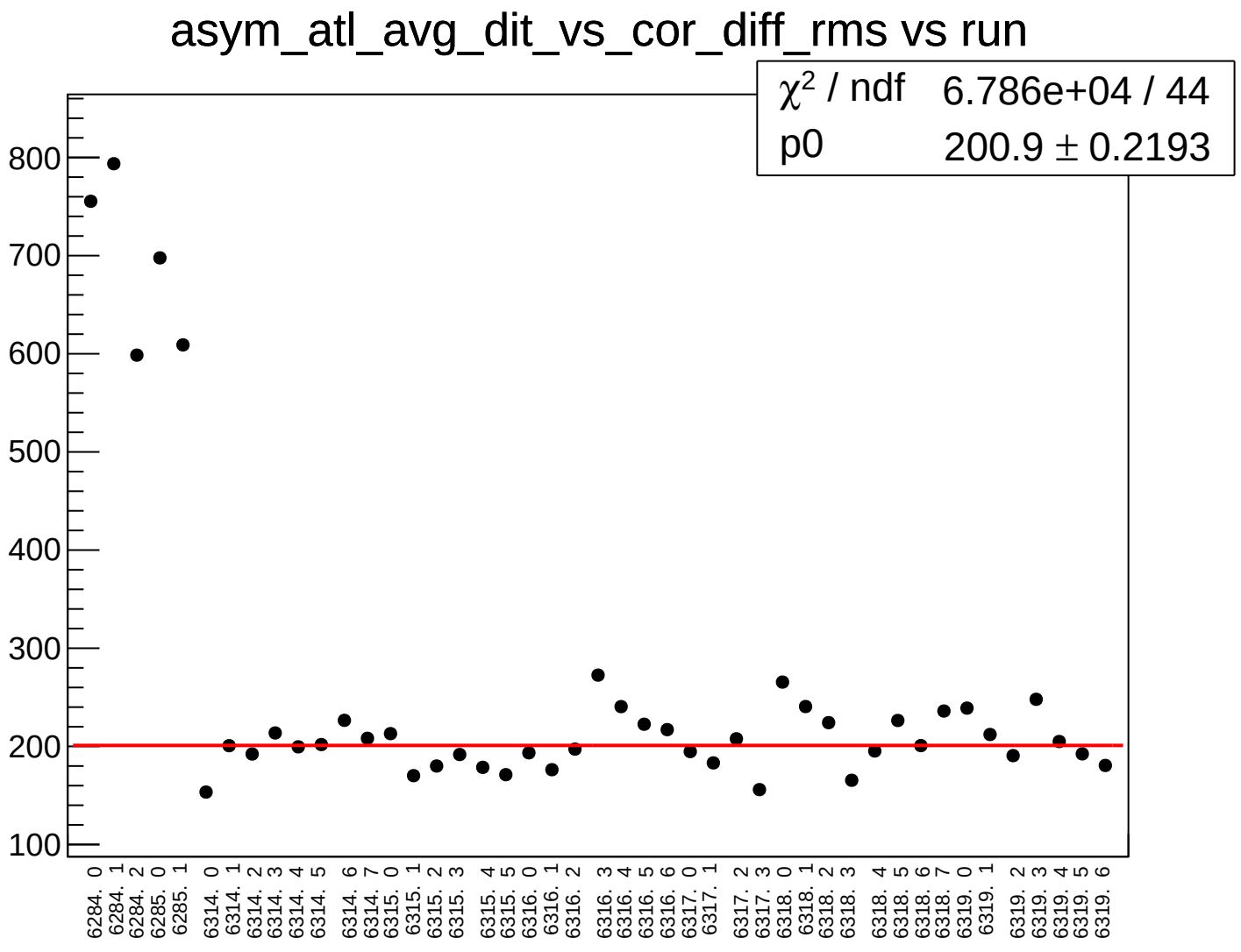
6319. 5
6319. 6

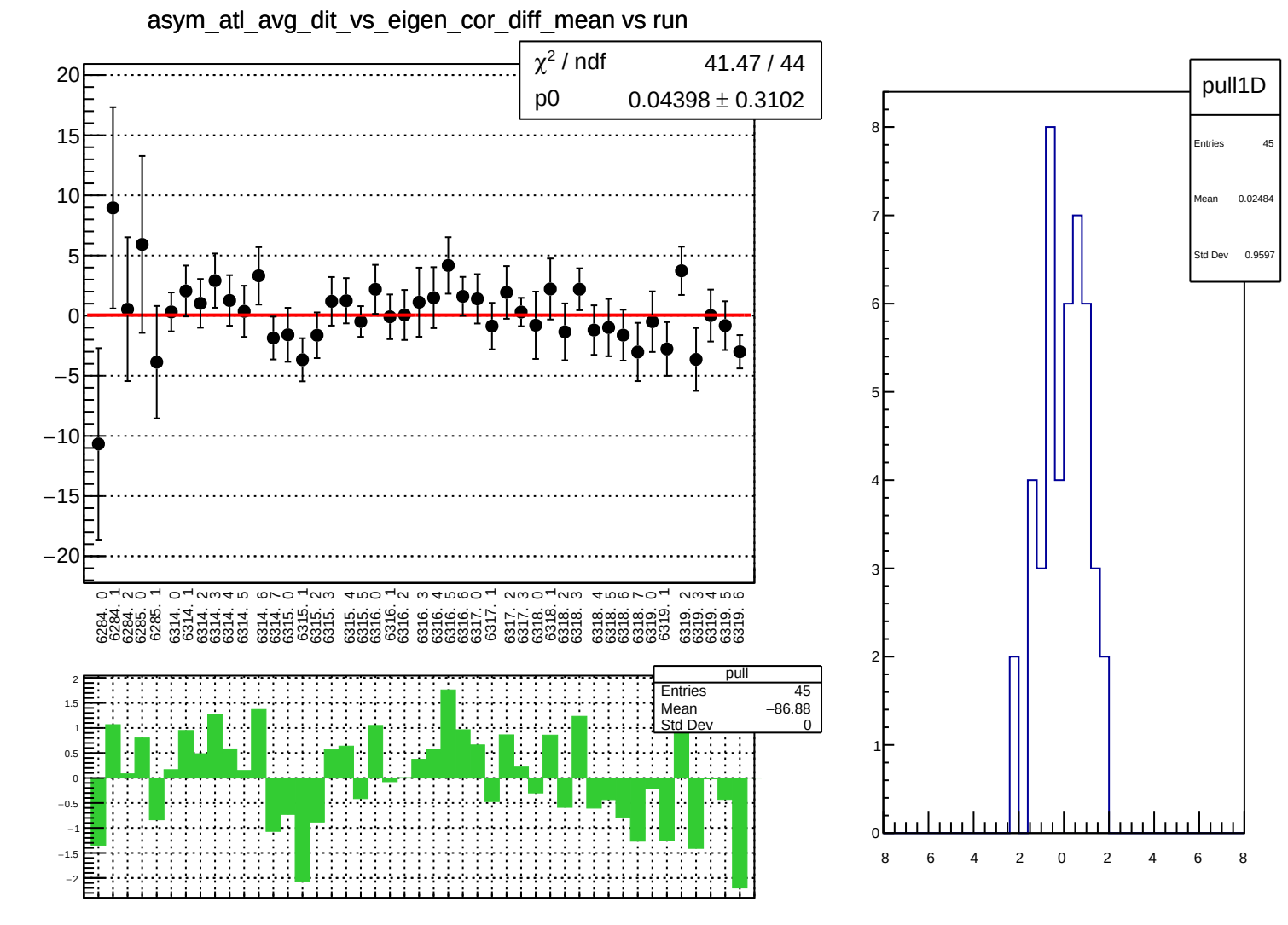

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.26 / 44
p0 −1.476e−13 ± 7.269e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −27.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01667
Std Dev 0.7922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

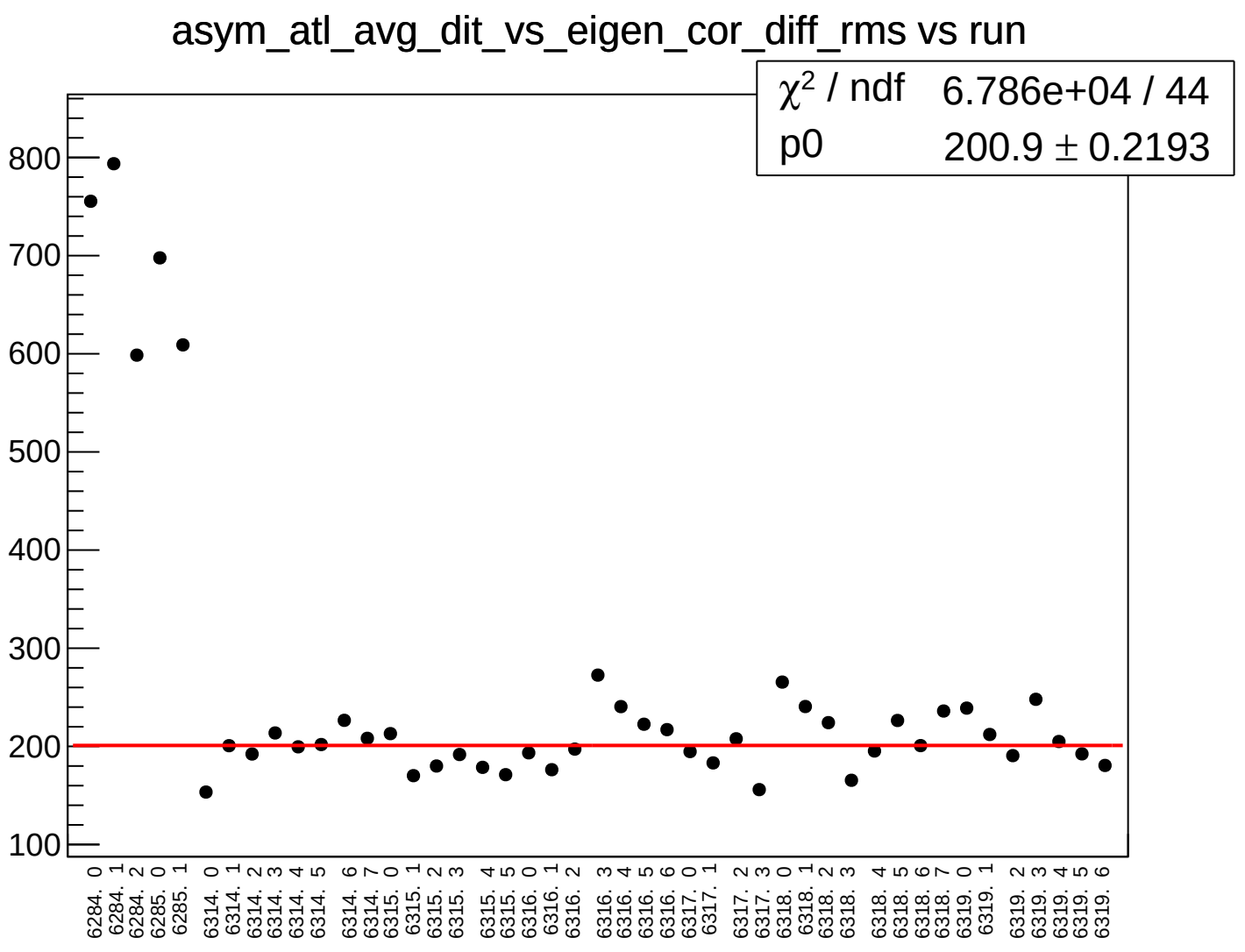

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.304e+05 / 44
p0 3.155e−10 ± 5.14e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

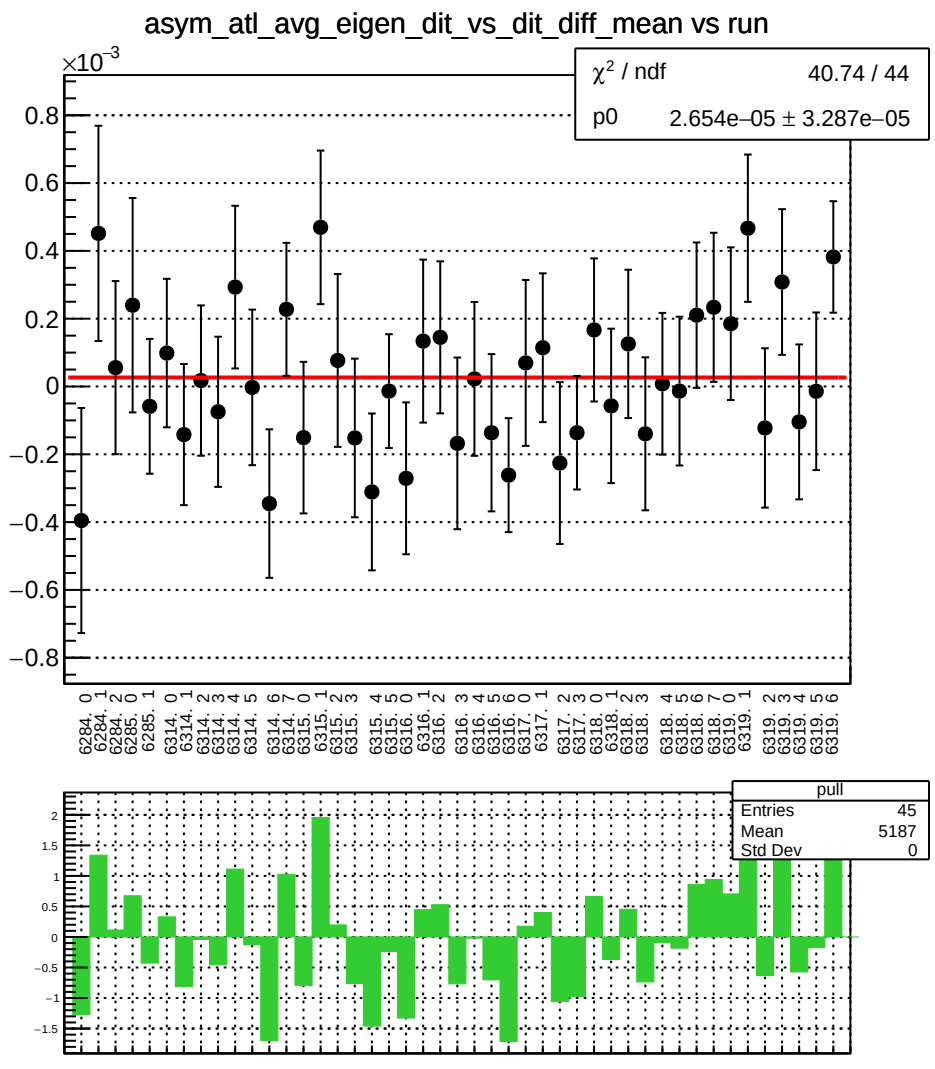

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.47 / 44
p0 0.04398 ± 0.3102
pull
Entries 45
Mean −86.88
Std Dev 0

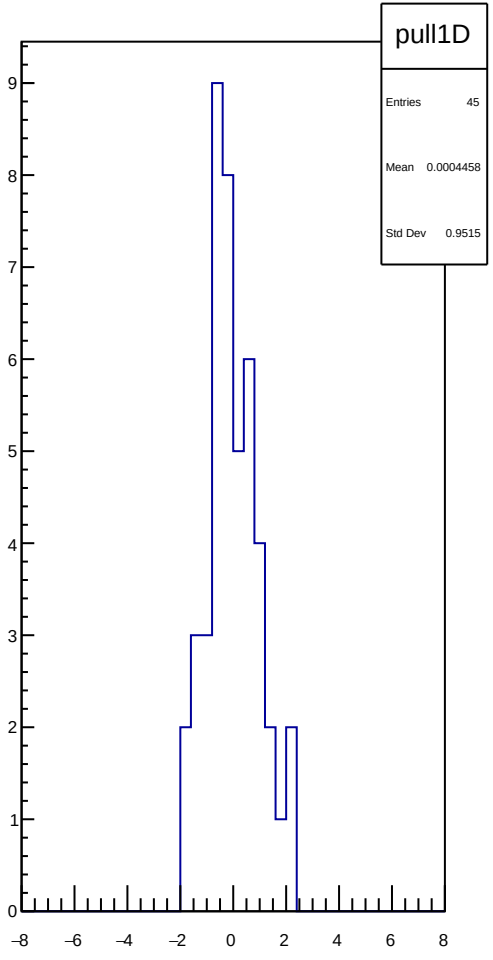

pull1D
Entries 45
Mean 0.02484
Std Dev 0.9597

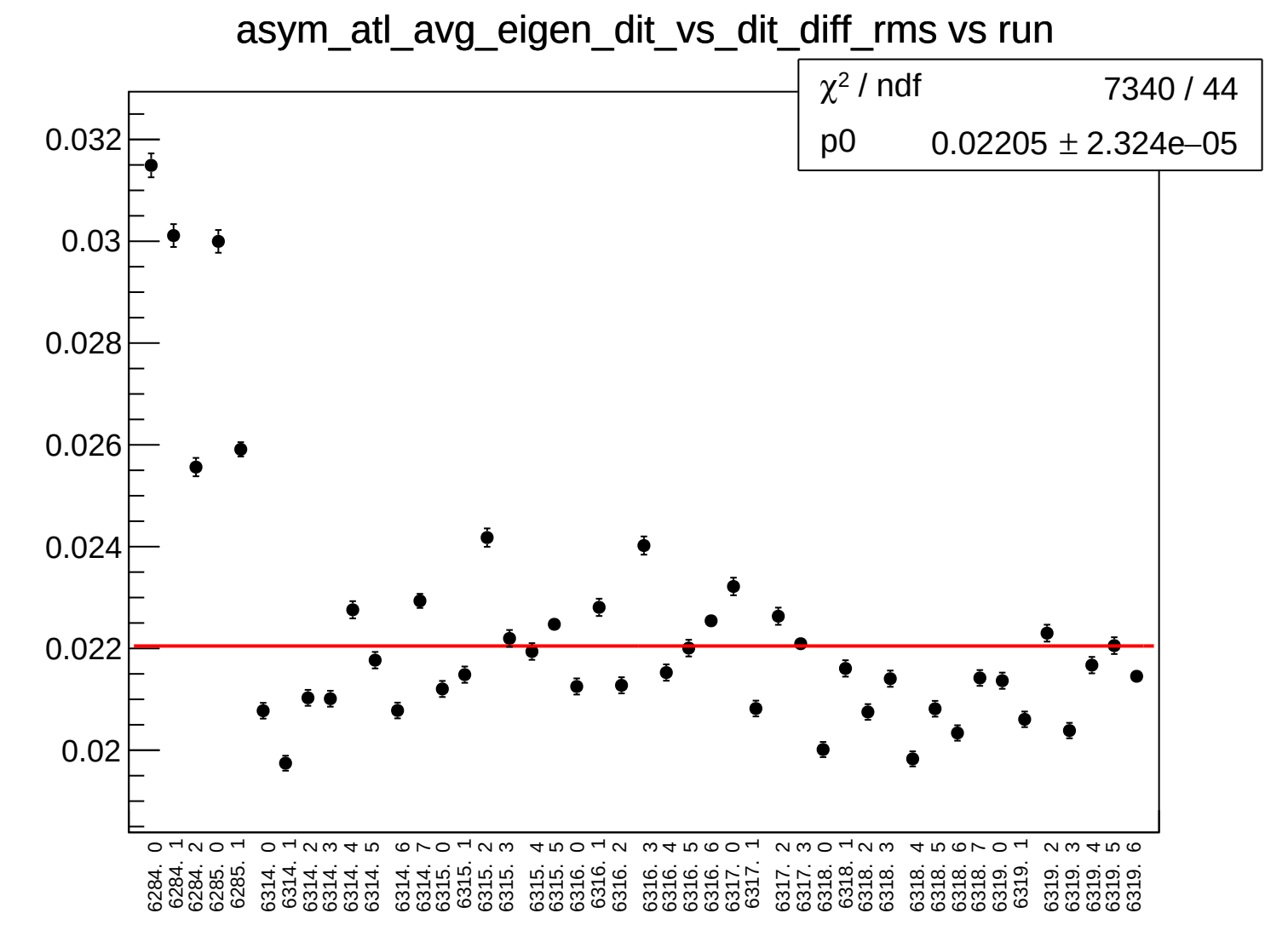

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.786e+04 / 44
p0 200.9 ± 0.2193
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

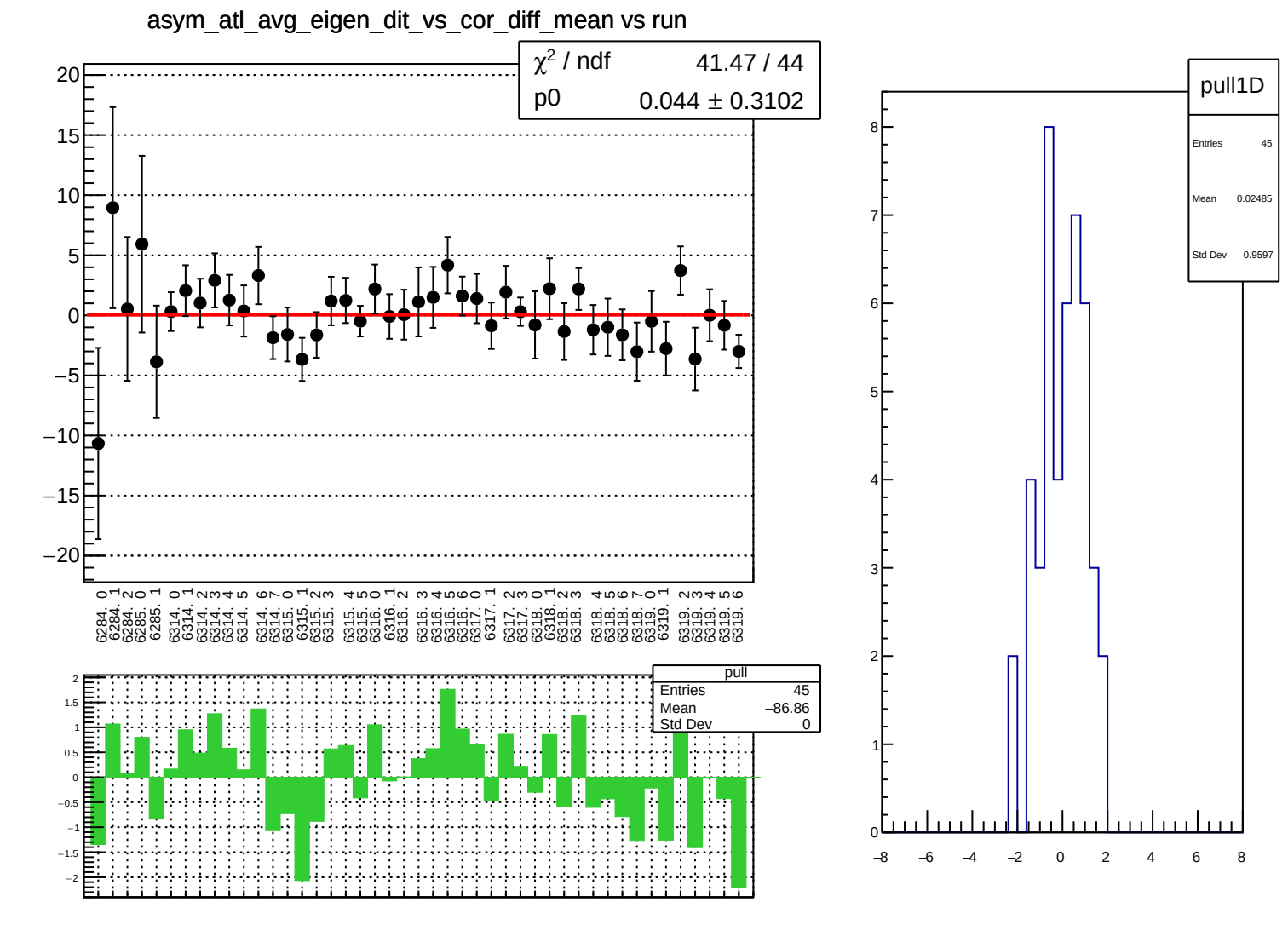

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.47 / 44
p0 0.04398 ± 0.3102
pull
Entries 45
Mean −86.88
Std Dev 0
pull1D
Entries 45
Mean 0.02484
Std Dev 0.9597

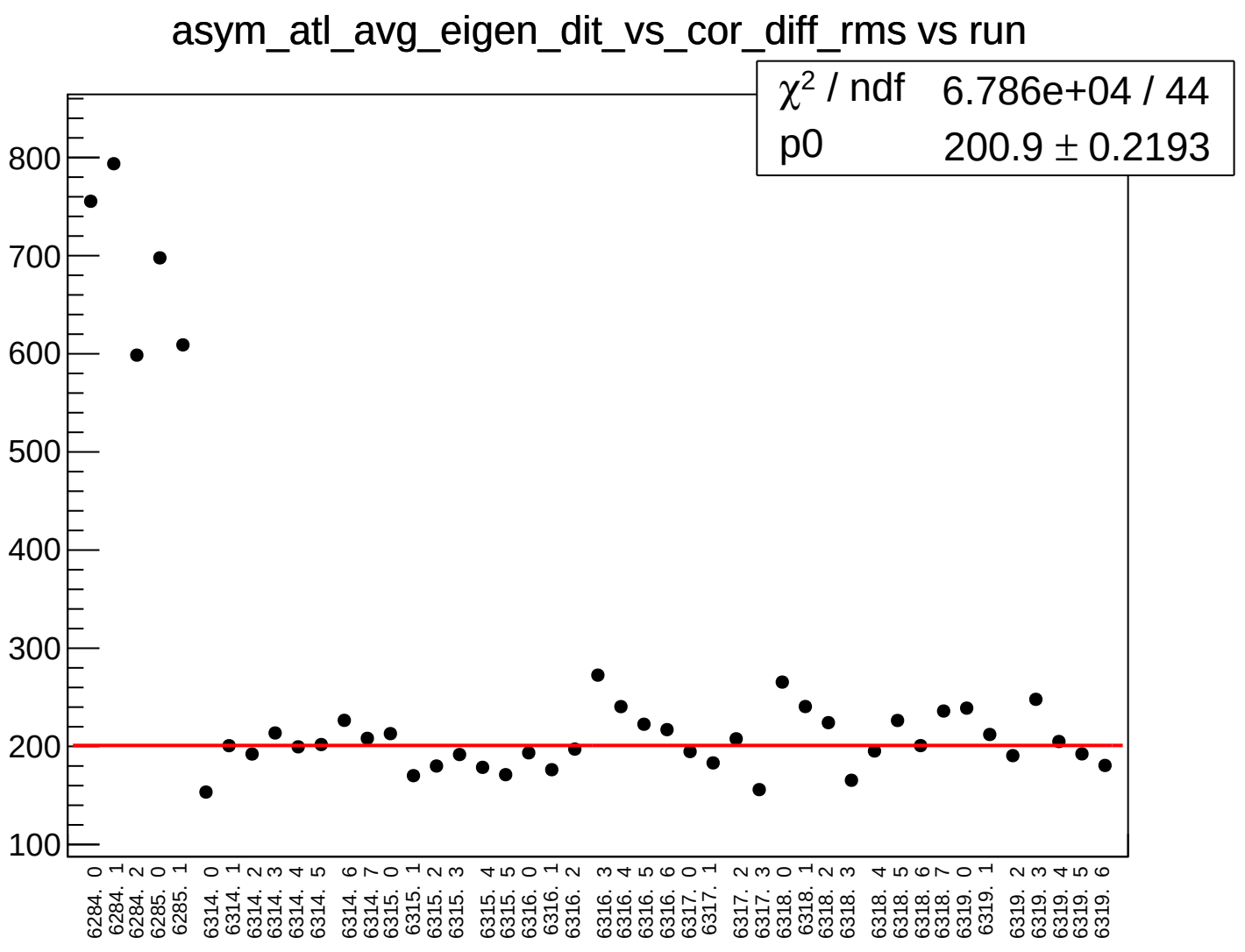

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.786e+04 / 44
p0 200.9 ± 0.2193
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

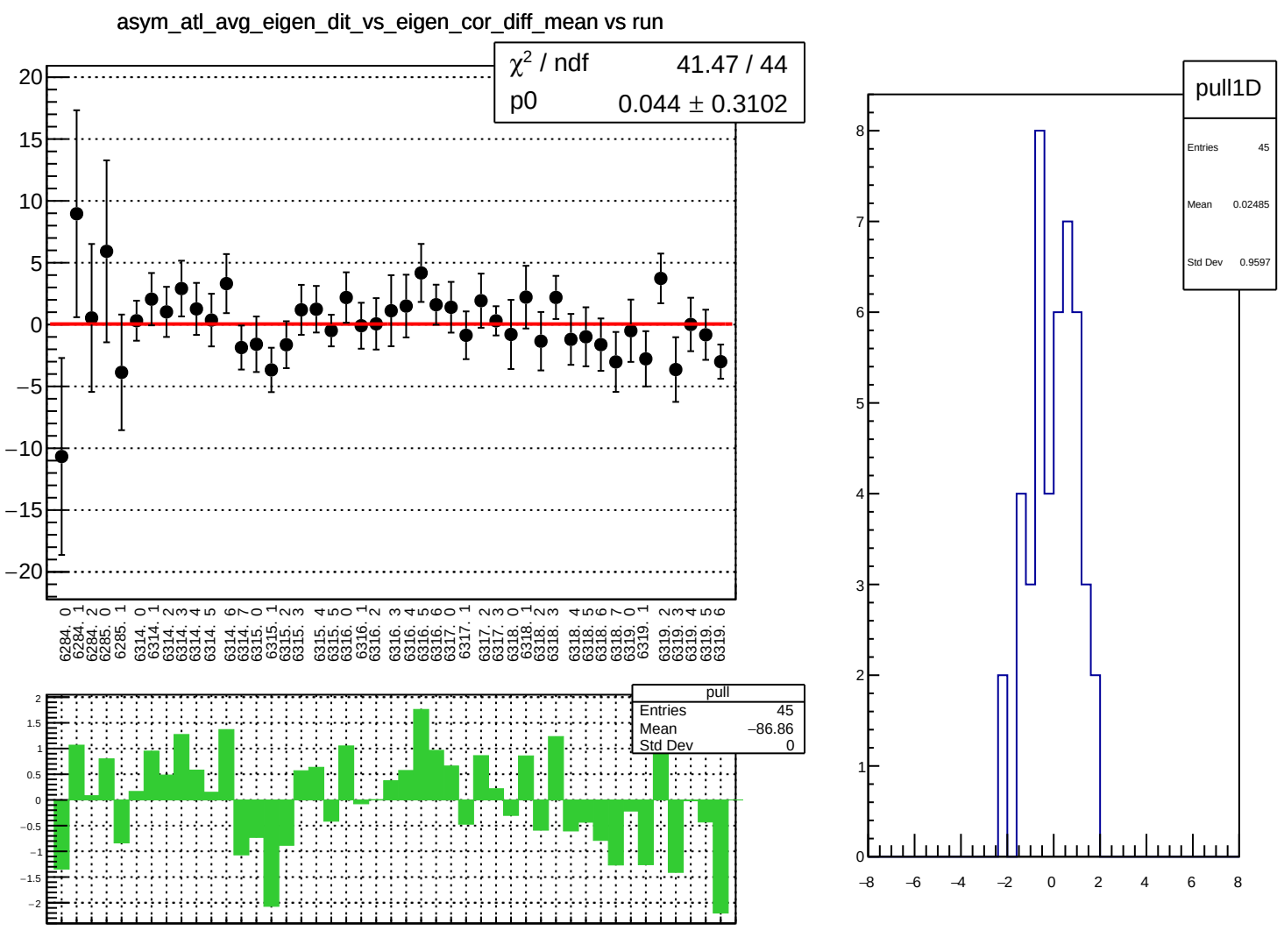

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.74 / 44
p0 2.654e−05 ± 3.287e−05
pull
Entries 45
Mean 5187
Std Dev 0

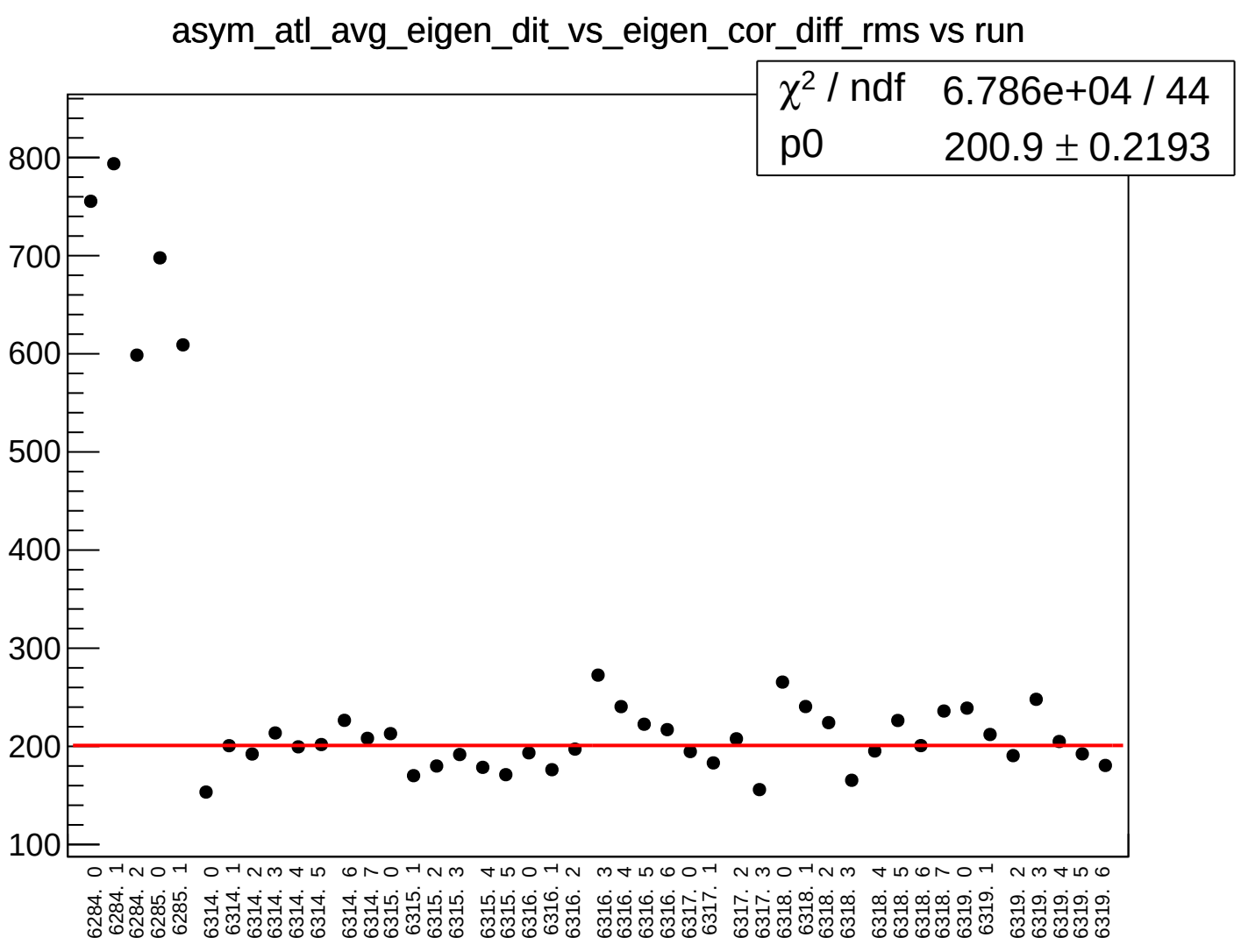

pull1D
Entries 45
Mean 0.0004458
Std Dev 0.9515

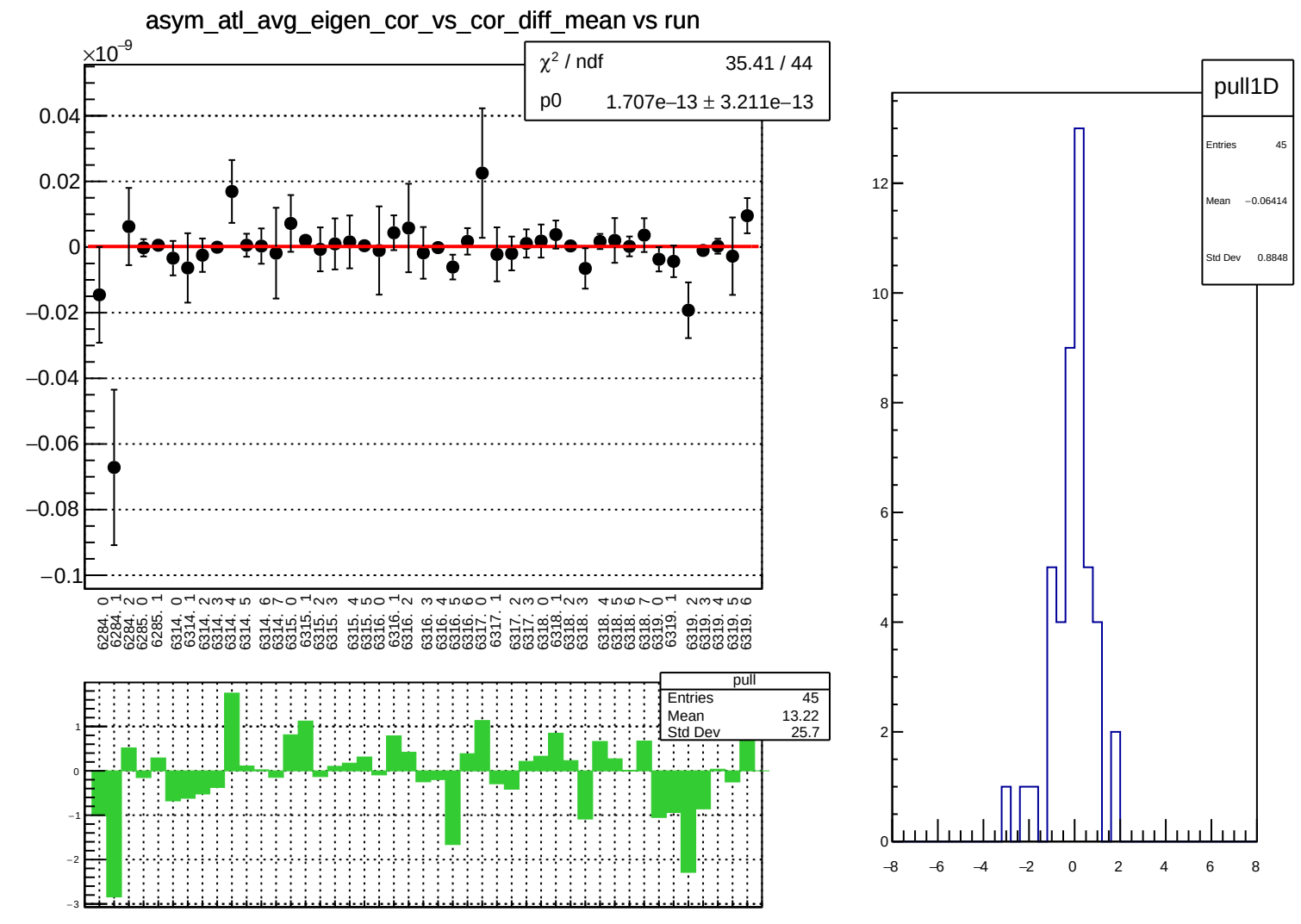

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7340 / 44
p0 0.02205 ± 2.324e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

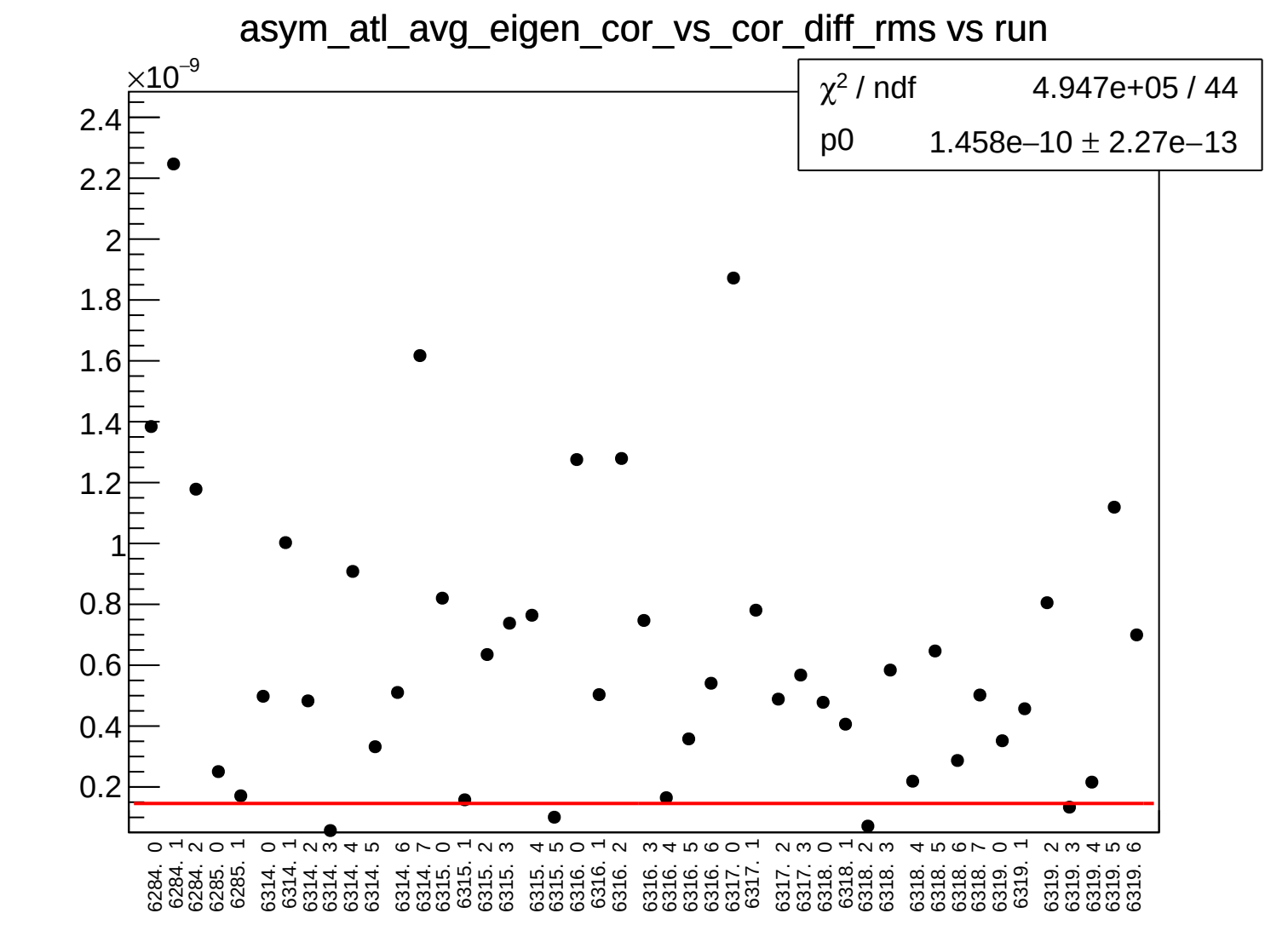

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.47 / 44
p0 0.044 ± 0.3102
pull
Entries 45
Mean −86.86
Std Dev 0
pull1D
Entries 45
Mean 0.02485
Std Dev 0.9597

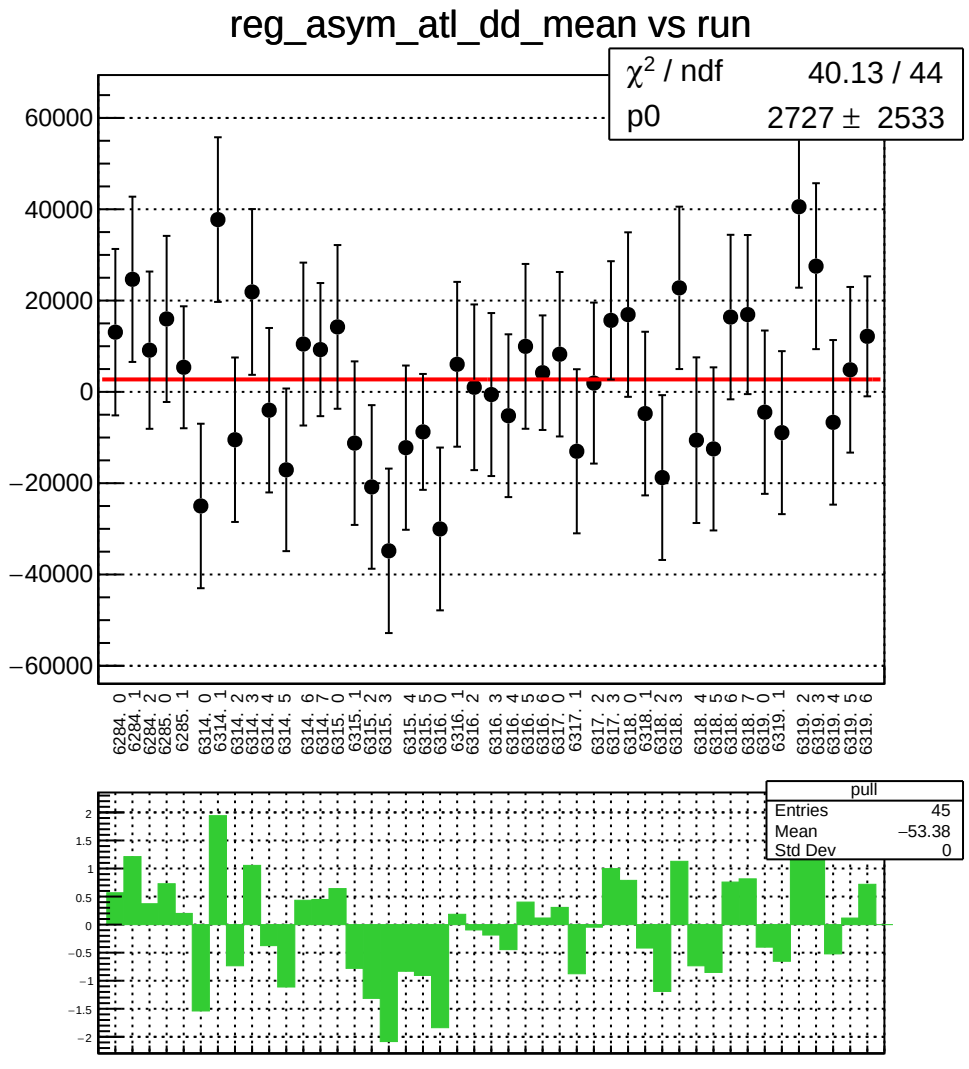

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.786e+04 / 44
p0 200.9 ± 0.2193
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

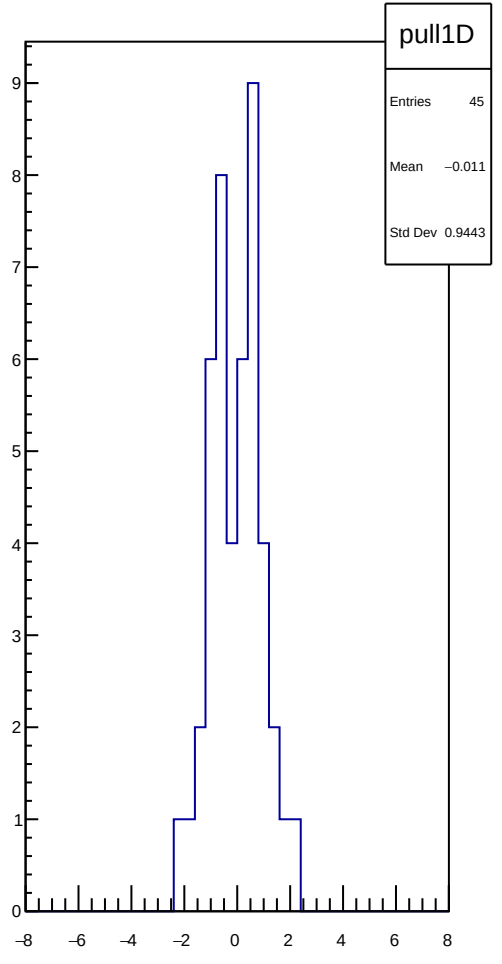

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.47 / 44
p0 0.044 ± 0.3102
pull
Entries 45
Mean −86.86
Std Dev 0
pull1D
Entries 45
Mean 0.02485
Std Dev 0.9597

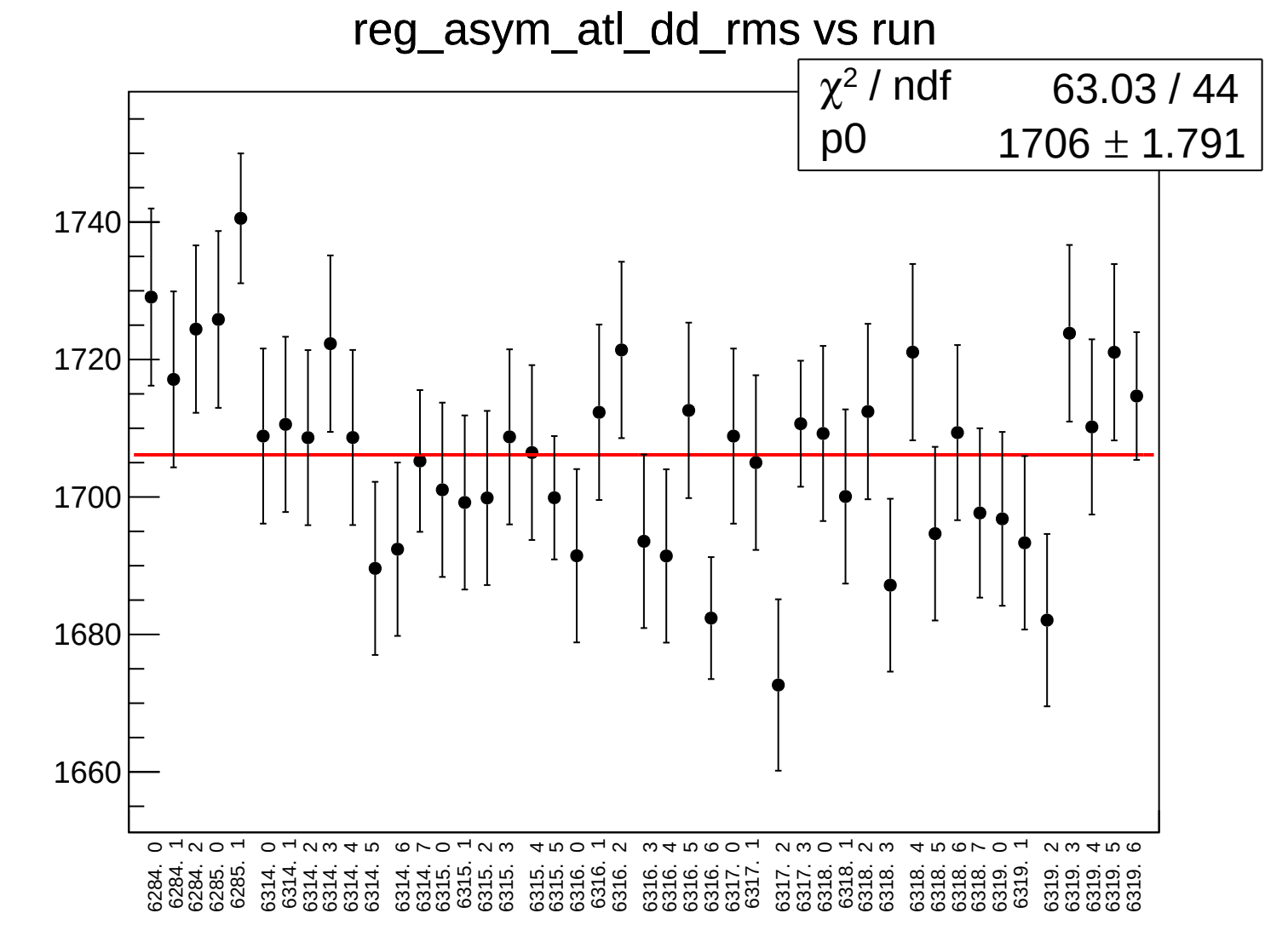

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.786e+04 / 44
p0 200.9 ± 0.2193
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 35.41 / 44
p0 1.707e−13 ± 3.211e−13
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 13.22
Std Dev 25.7
pull1D
Entries 45
Mean −0.06414
Std Dev 0.8848


asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.947e+05 / 44
p0 1.458e−10 ± 2.27e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atl_dd_mean vs run
χ² / ndf 40.13 / 44
p0 2727 ± 2533
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −53.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.011
Std Dev 0.9443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ² / ndf 63.03 / 44
p0 1706 ± 1.791
1740
1720
1700
1680
1660
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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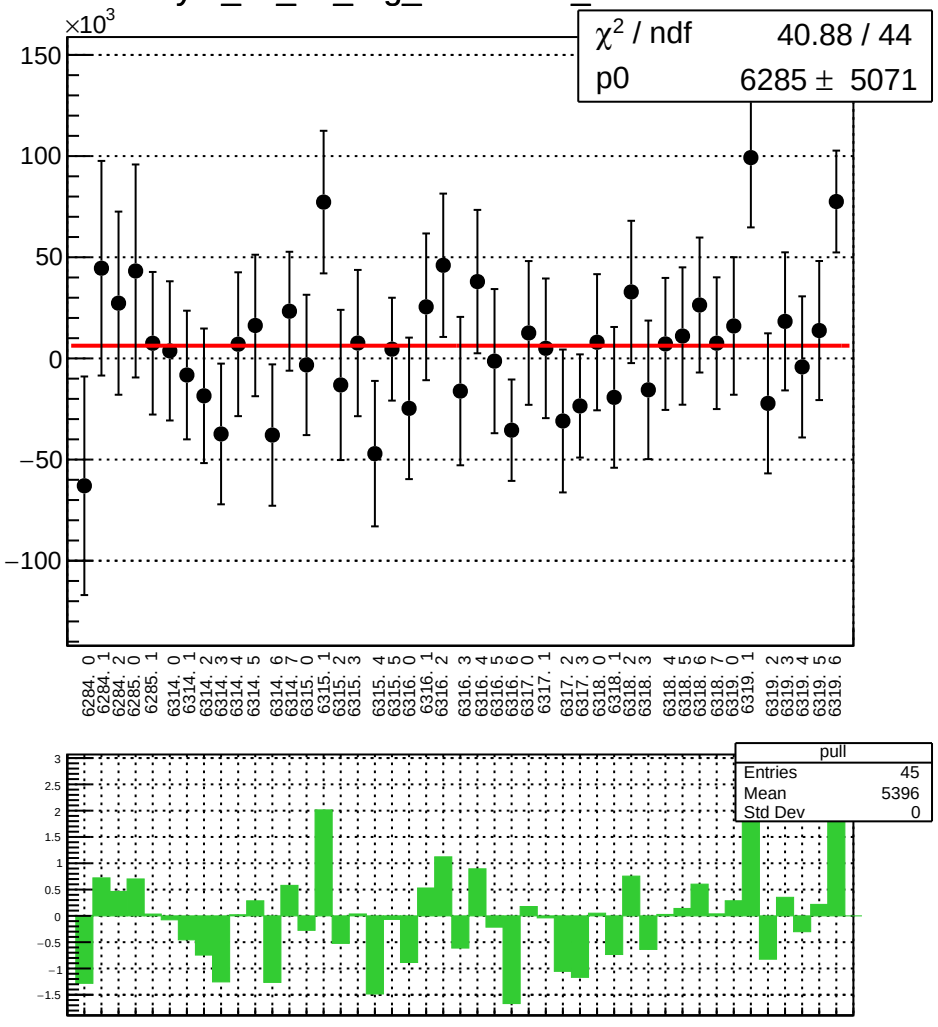
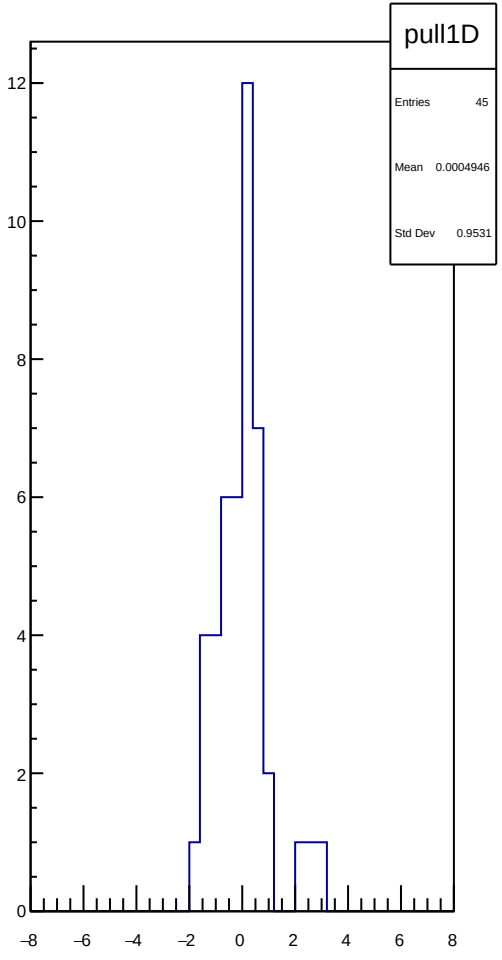
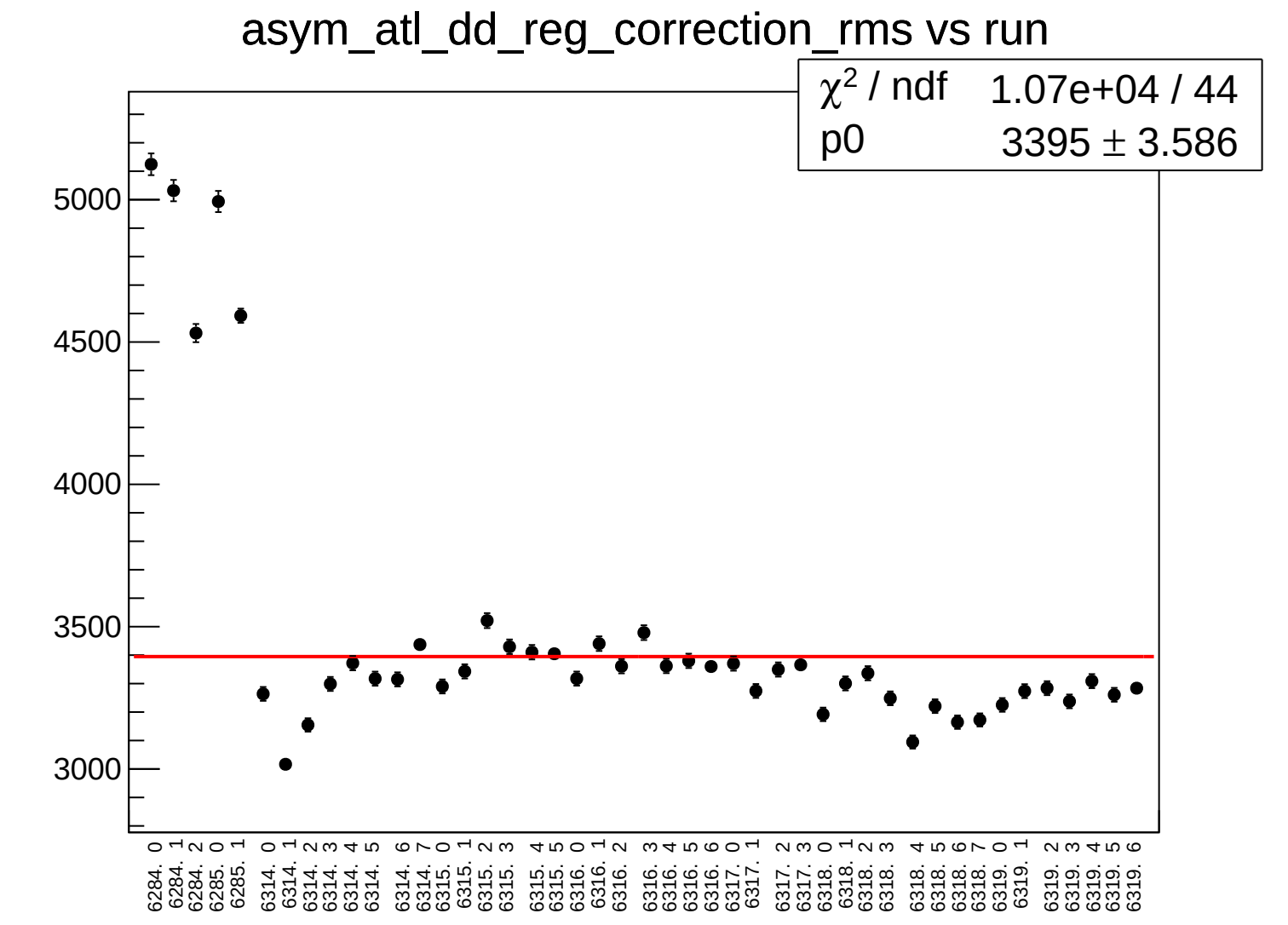
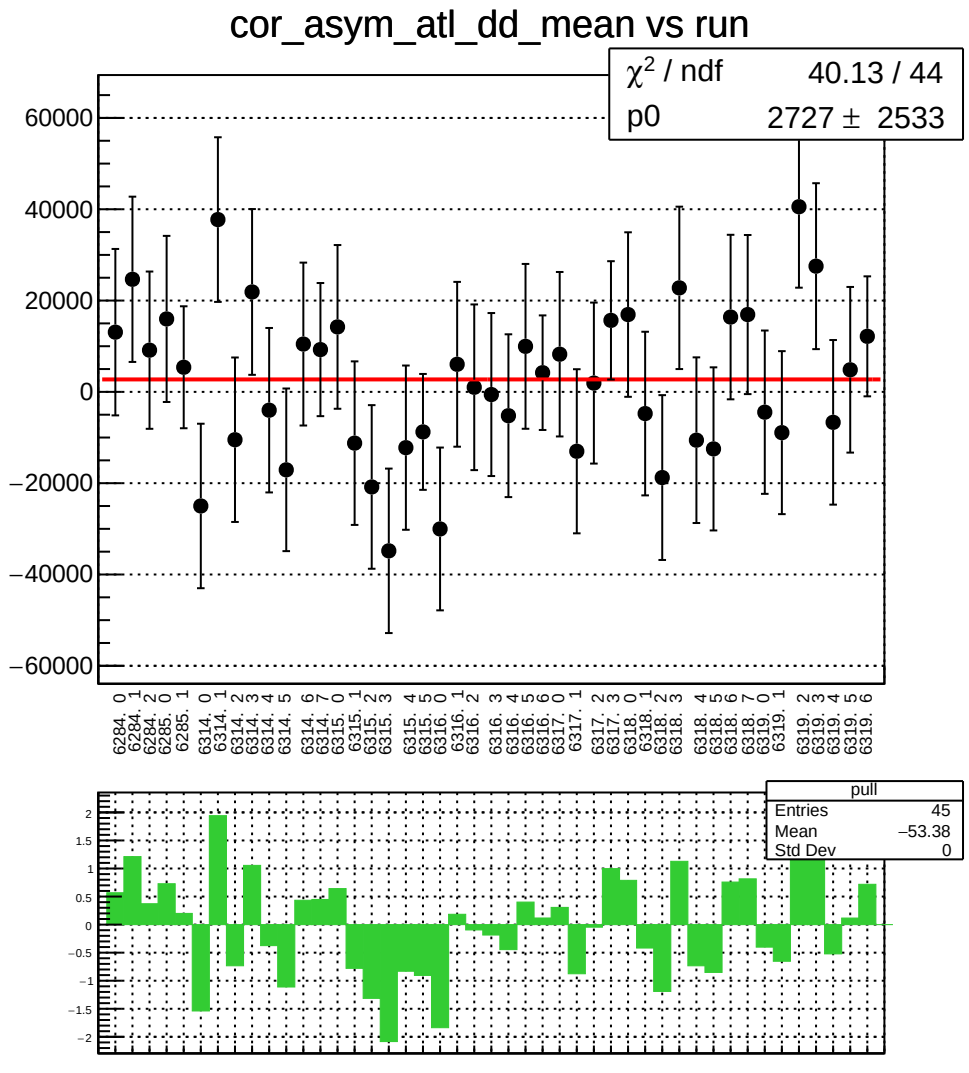
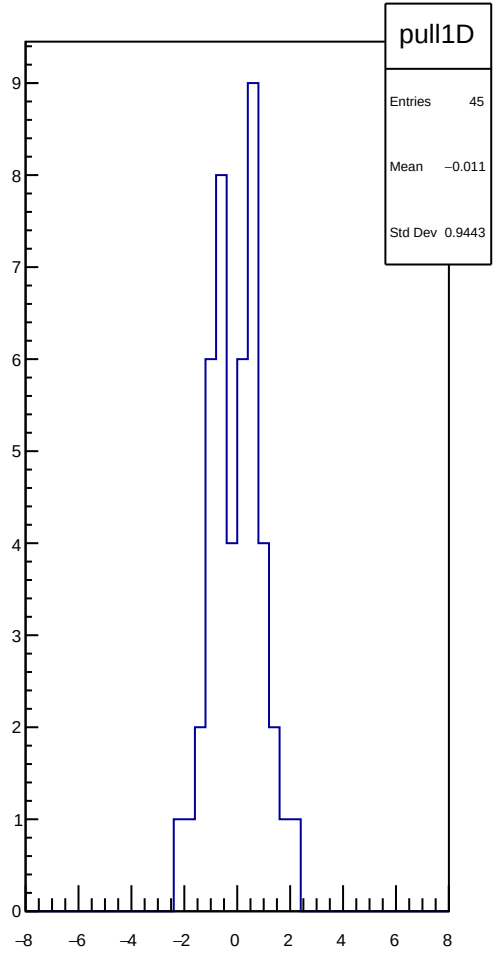
6319. 5
6319. 6

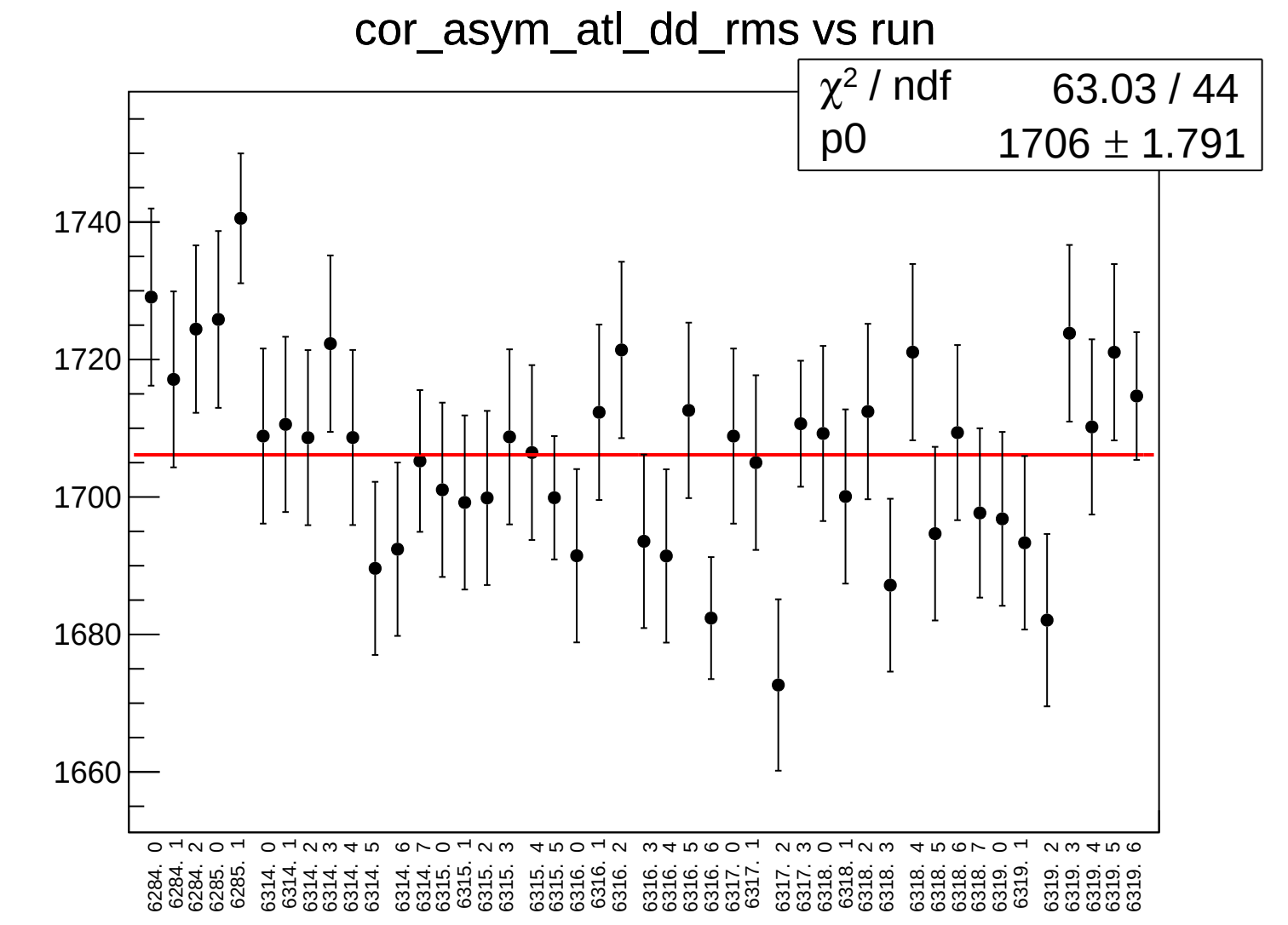

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.88 / 44
p0 6285 ± 5071
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5396
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0004946
Std Dev 0.9531
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.07e+04 / 44
p0 3395 ± 3.586
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl_dd_mean vs run
χ² / ndf 40.13 / 44
p0 2727 ± 2533
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −53.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.011
Std Dev 0.9443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_rms vs run
χ² / ndf 63.03 / 44
p0 1706 ± 1.791
1740
1720
1700
1680
1660
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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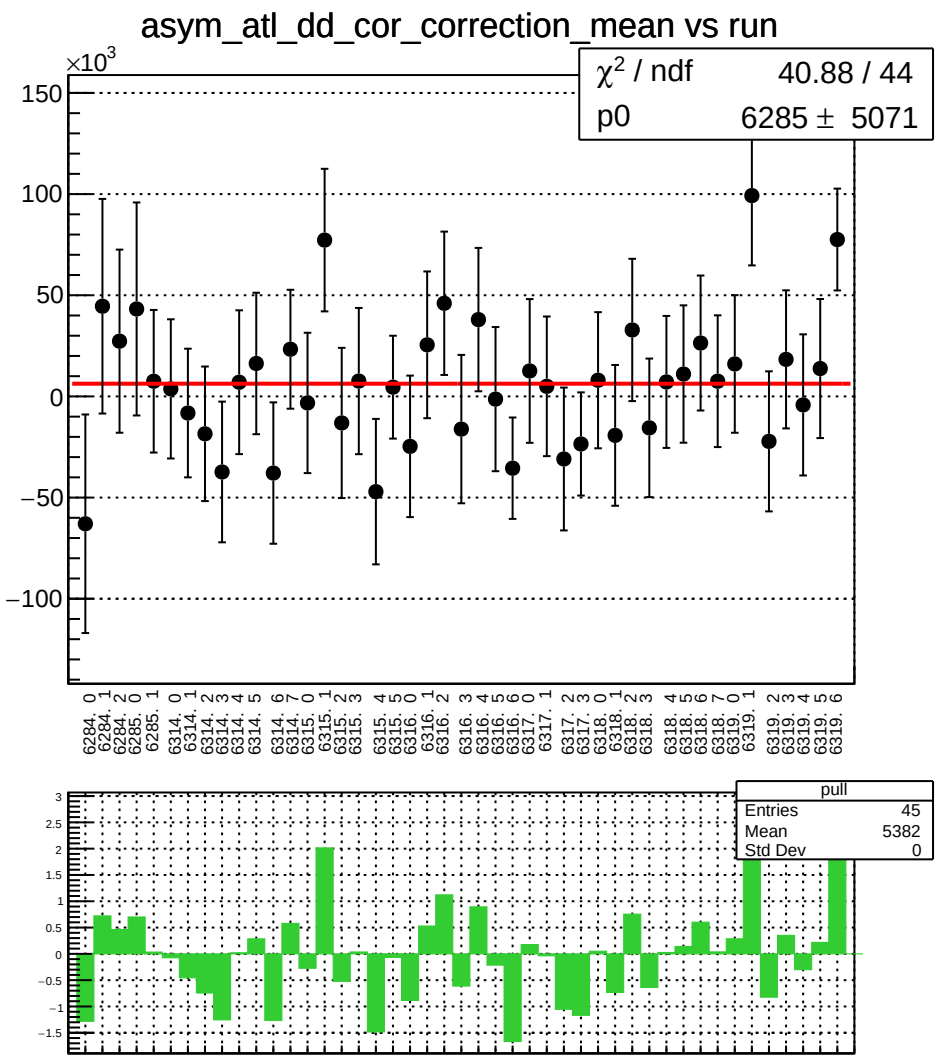
6319. 6


asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.88 / 44
p0 6285 ± 5071
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 5
6314. 6
6314. 7
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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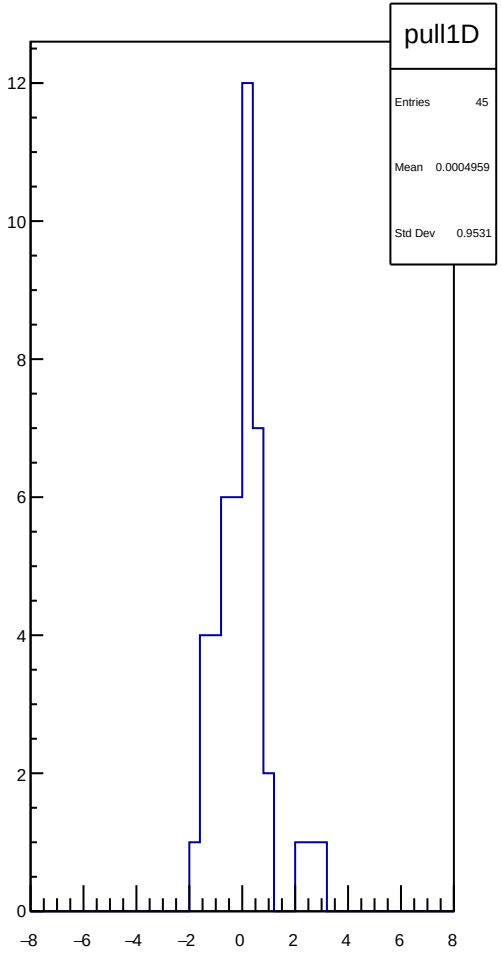
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5382
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0004959
Std Dev 0.9531
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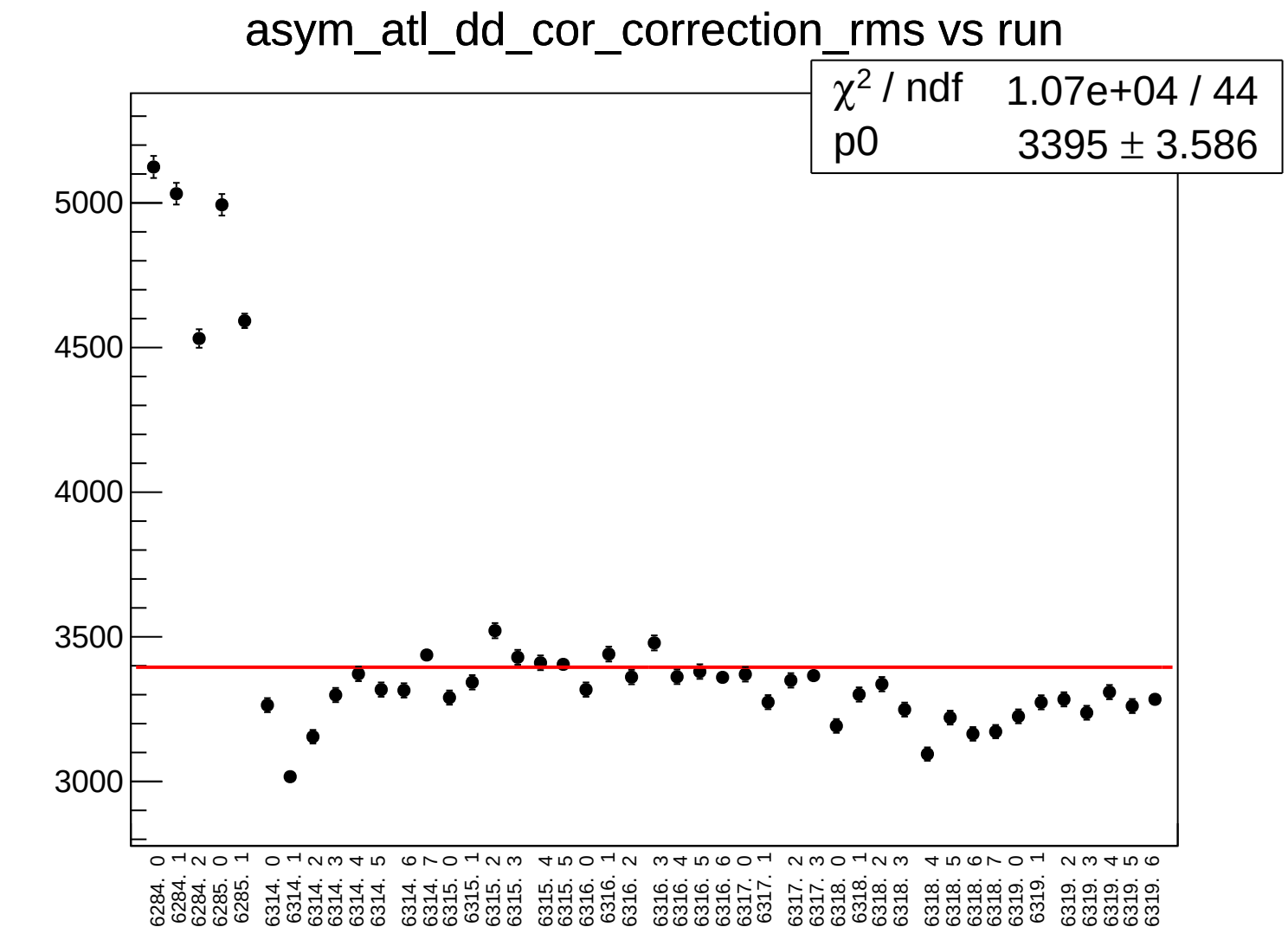
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 44
p0 3395 ± 3.586
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6315. 2
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6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
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6318. 2
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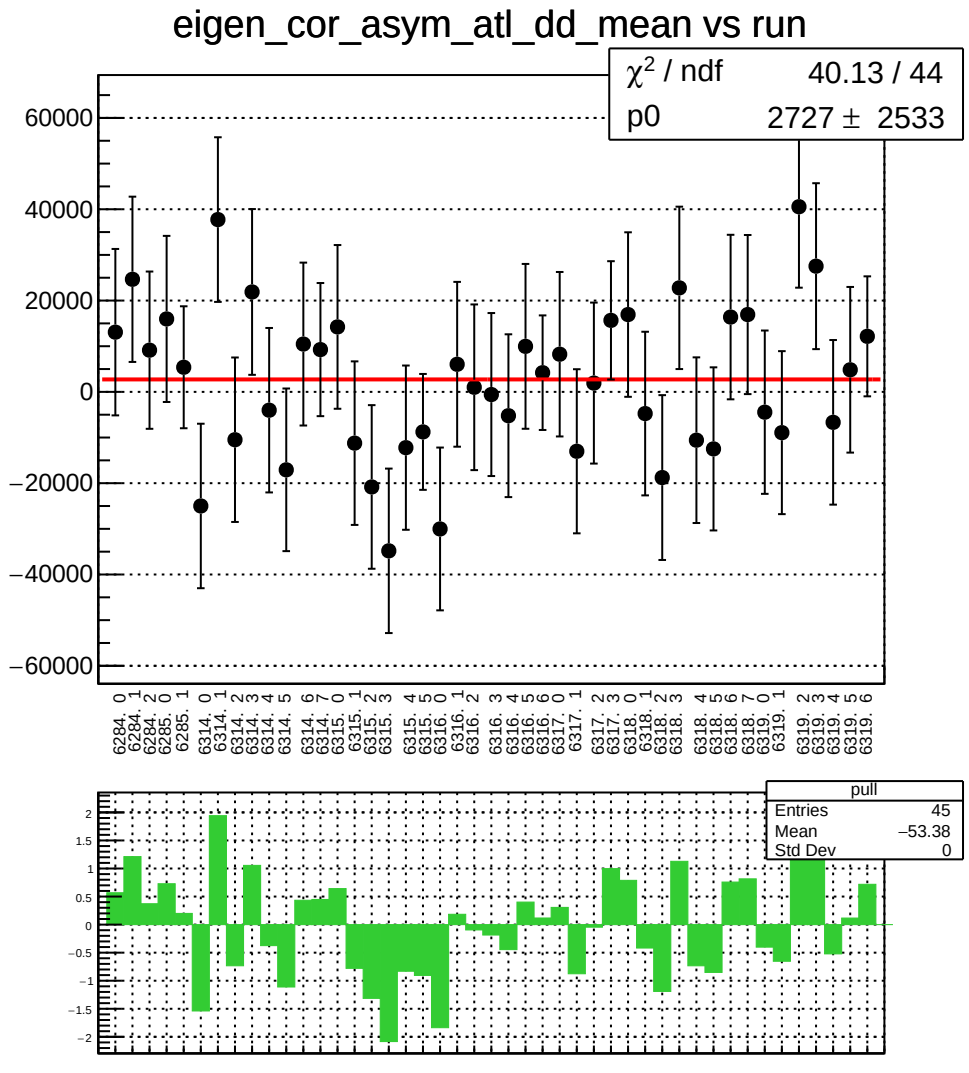
eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 40.13 / 44
p0 2727 ± 2533
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40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 5
6316. 0
6316. 1
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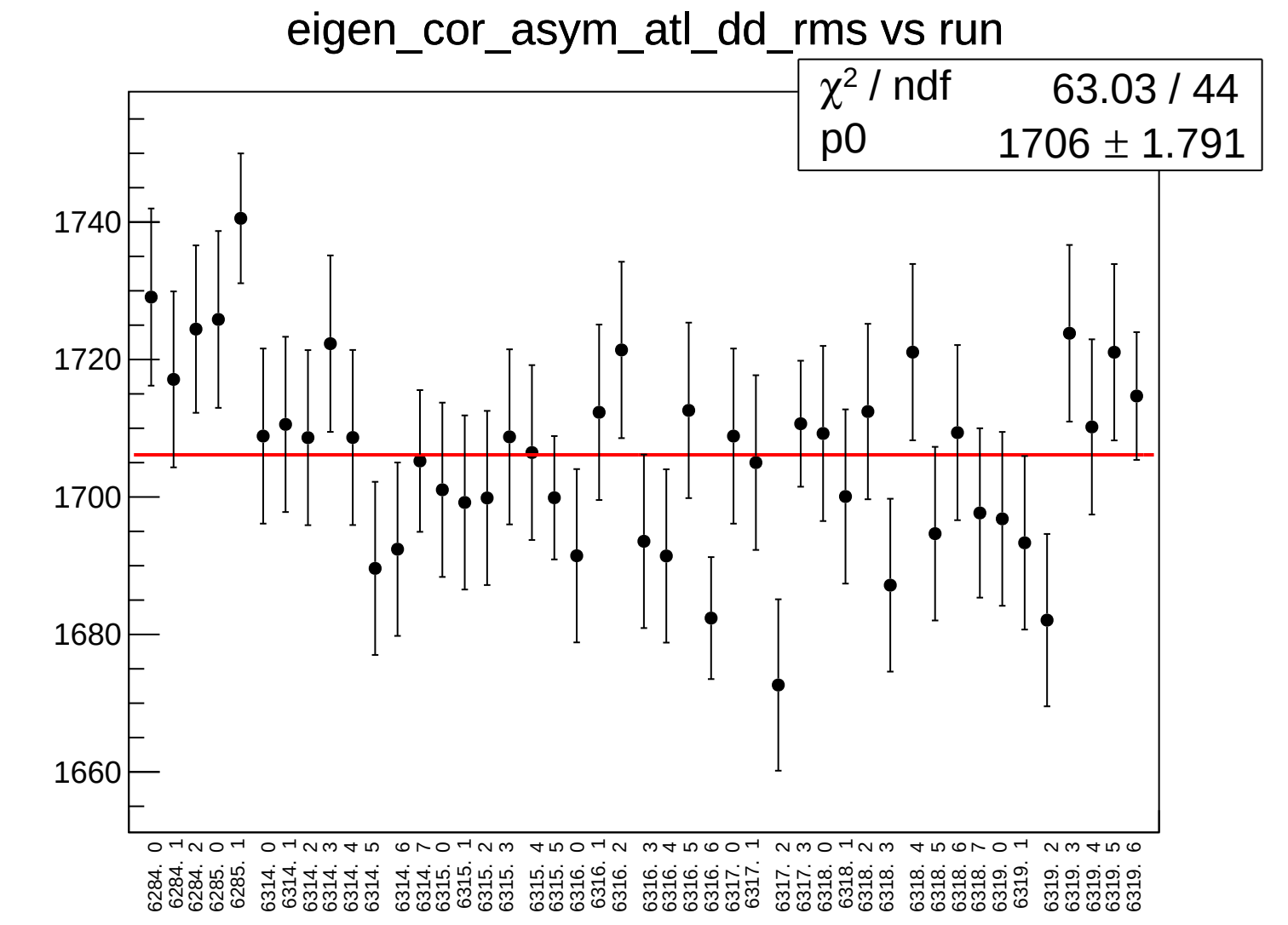
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −53.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.011
Std Dev 0.9443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 63.03 / 44
p0 1706 ± 1.791
1740
1720
1700
1680
1660
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 6
6314. 7
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6315. 2
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6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
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6319. 0
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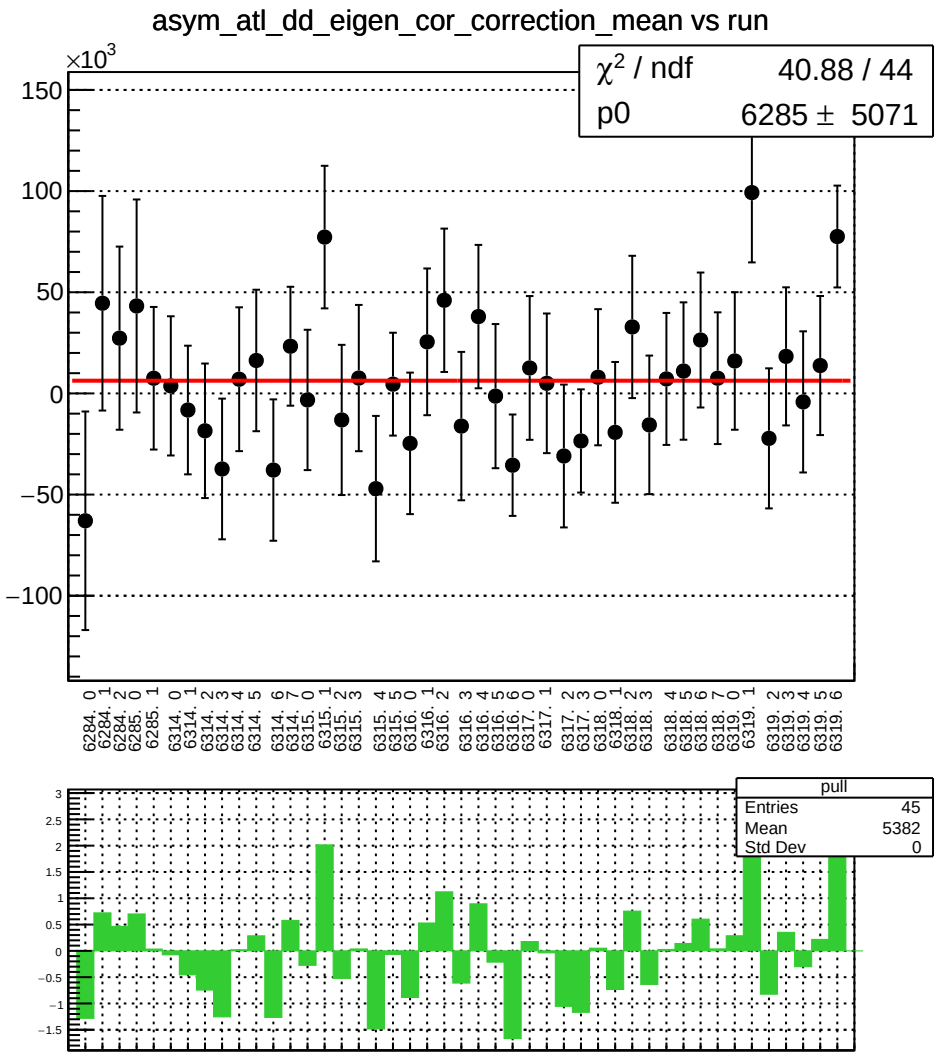
6319. 5
6319. 6


asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.88 / 44
p0 6285 ± 5071
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5382
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0004959
Std Dev 0.9531
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
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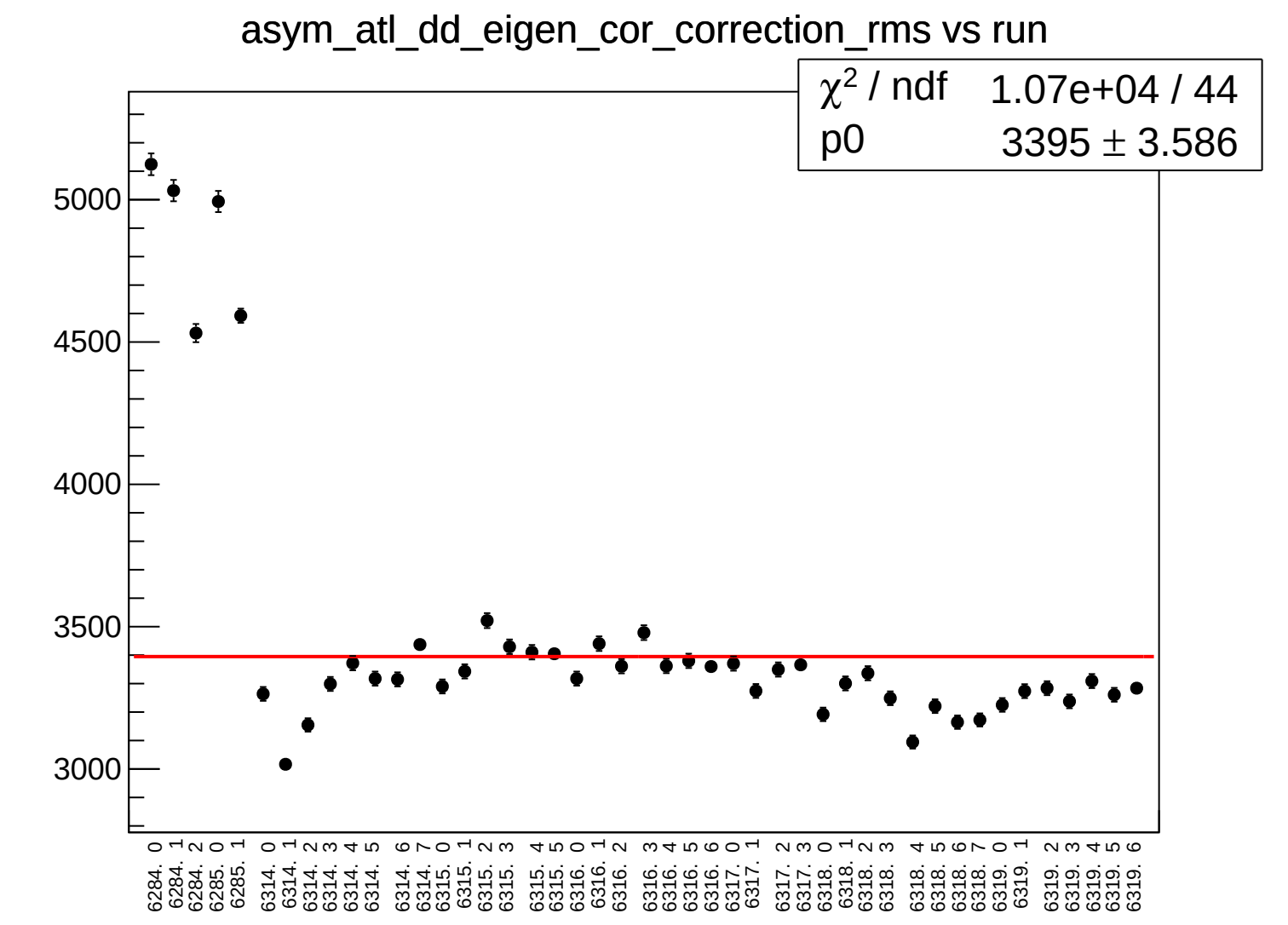
6
8


asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 44
p0 3395 ± 3.586
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
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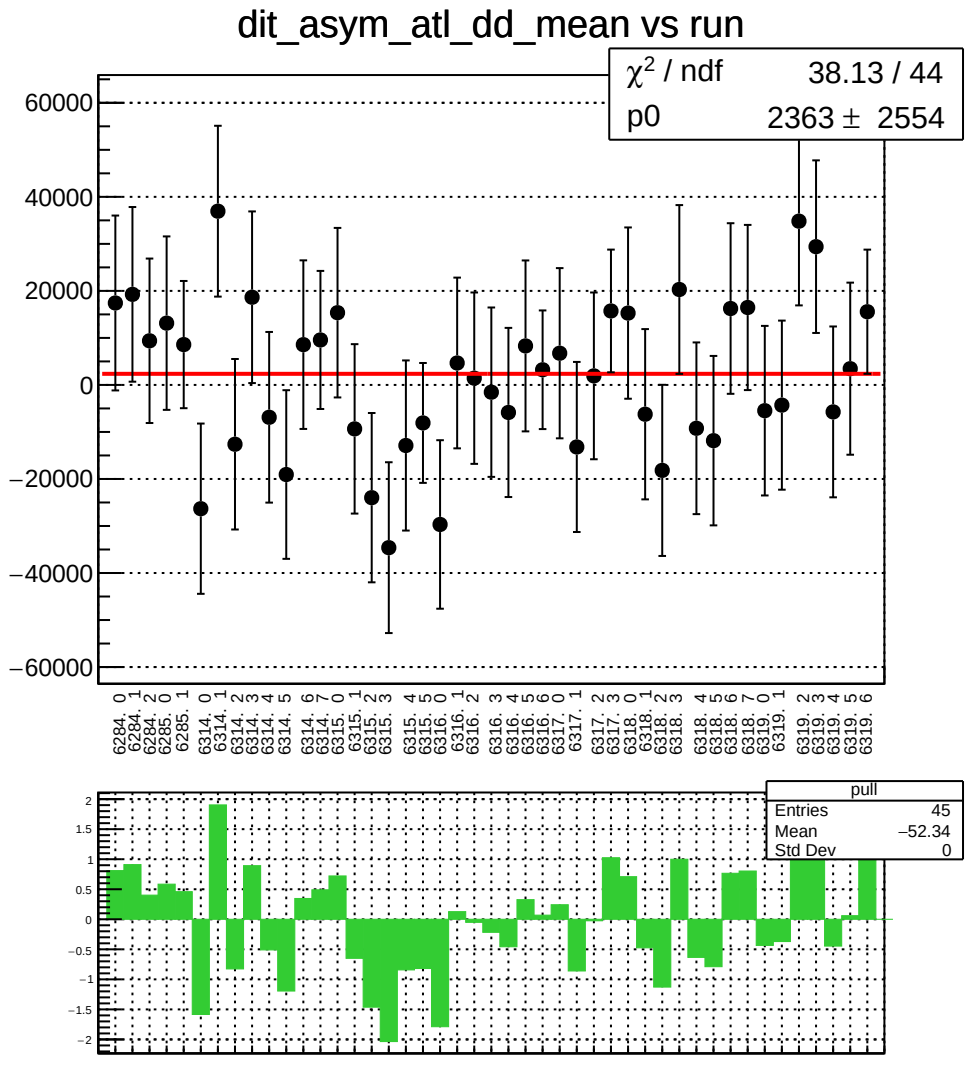
dit_asym_atl_dd_mean vs run
χ² / ndf 38.13 / 44
p0 2363 ± 2554
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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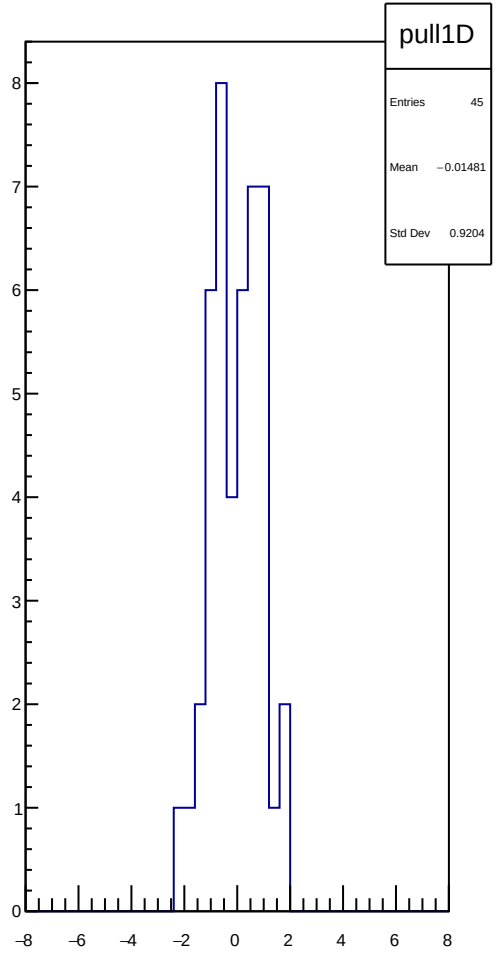
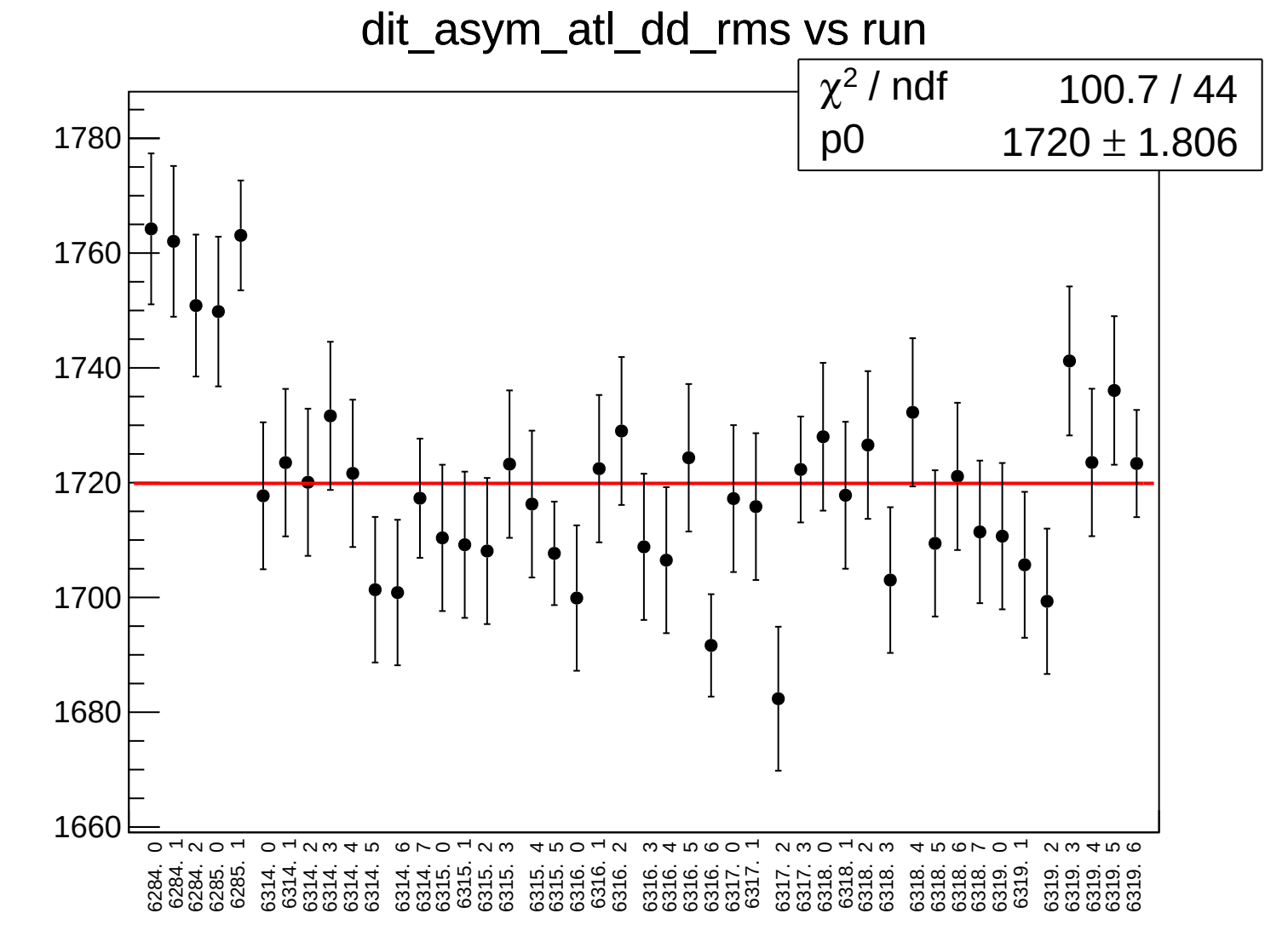
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01481
Std Dev 0.9204
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_rms vs run
χ² / ndf 100.7 / 44
p0 1720 ± 1.806
1780
1760
1740
1720
1700
1680
1660
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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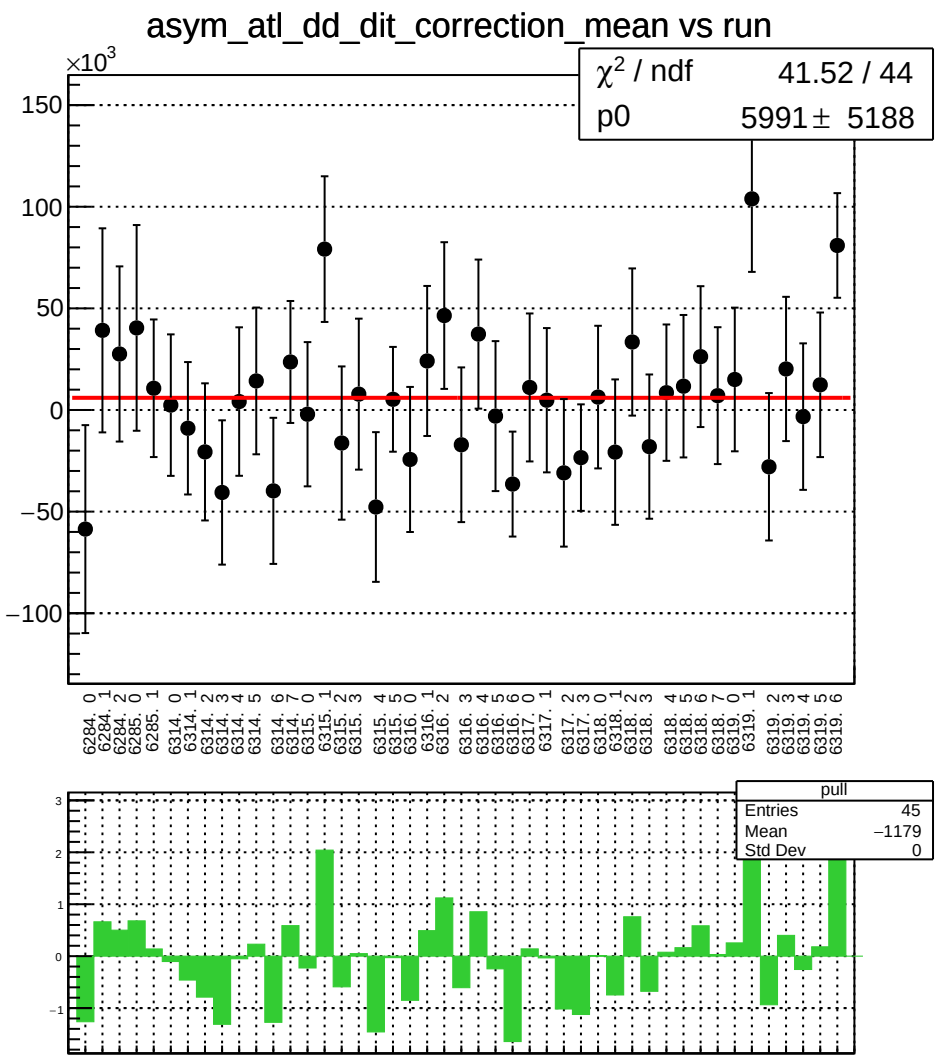
asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.52 / 44
p0 5991 ± 5188
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6319. 0
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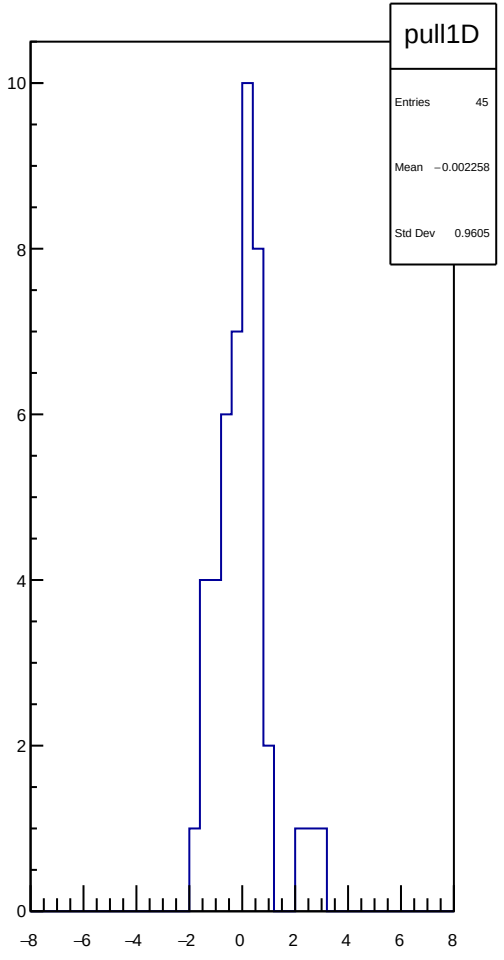
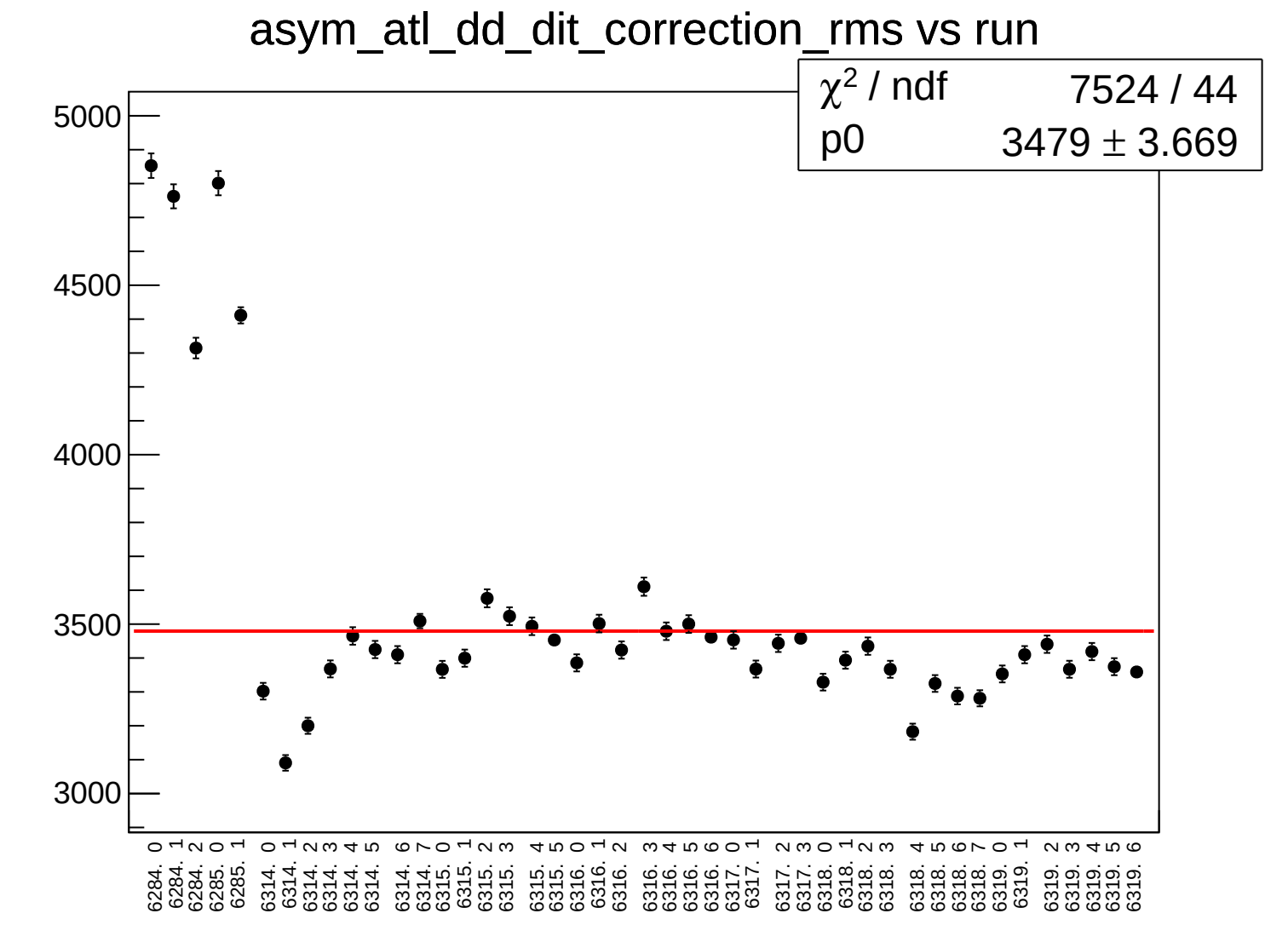
6319. 6
pull
Entries 45
Mean −1179
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean −0.002258
Std Dev 0.9605
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_dit_correction_rms vs run
χ² / ndf 7524 / 44
p0 3479 ± 3.669
5000
4500
4000
3500
3000
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6284. 1
6284. 2
6285. 0
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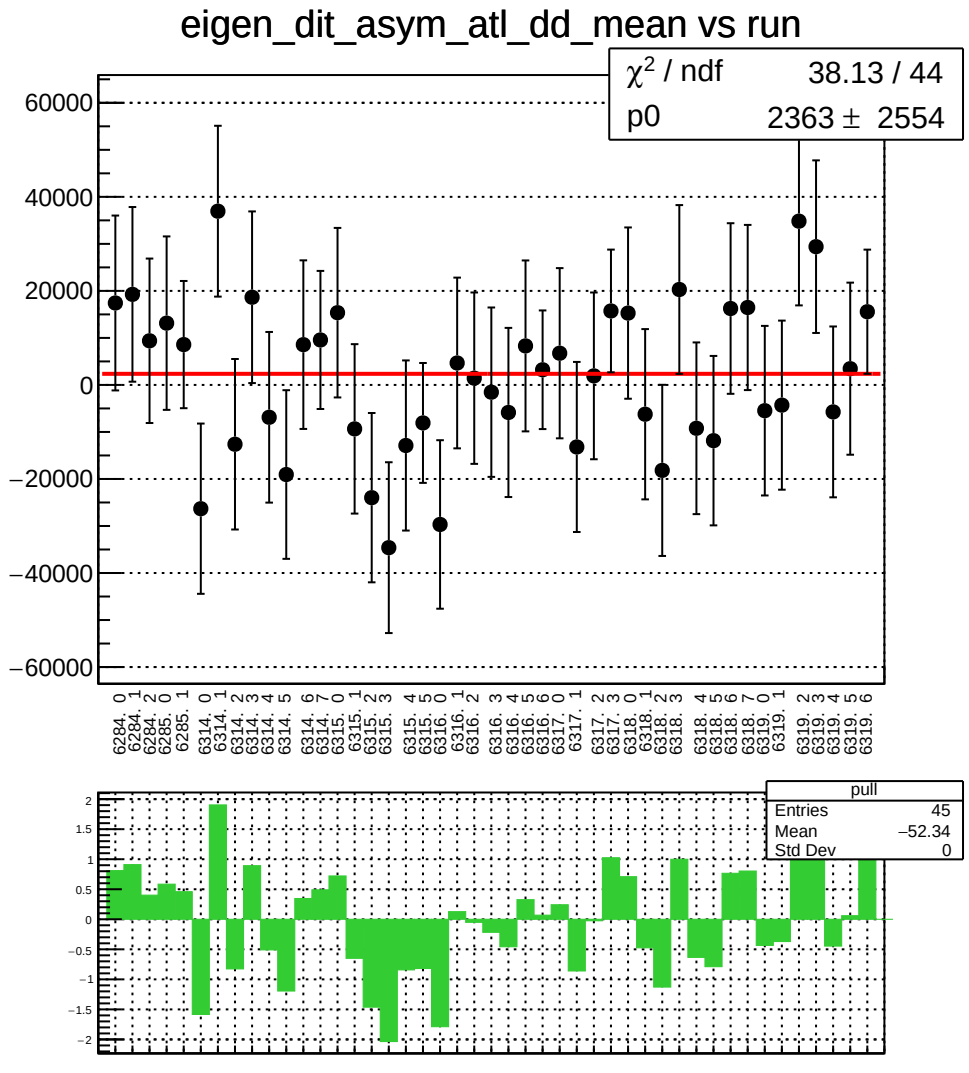
6319. 6


eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 38.13 / 44
p0 2363 ± 2554
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6319. 6
pull
Entries 45
Mean −52.34
Std Dev 0
2
1.5
1
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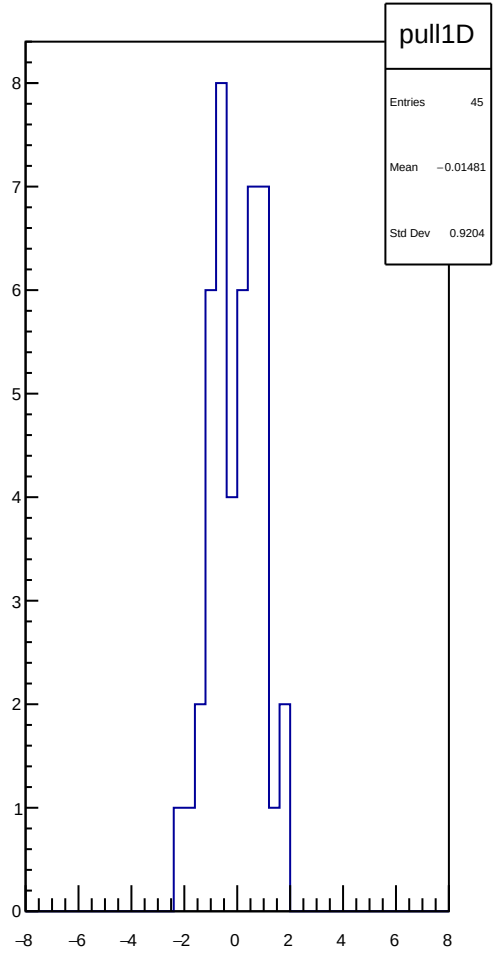
−1
−1.5
−2


pull1D
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Mean −0.01481
Std Dev 0.9204
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−4
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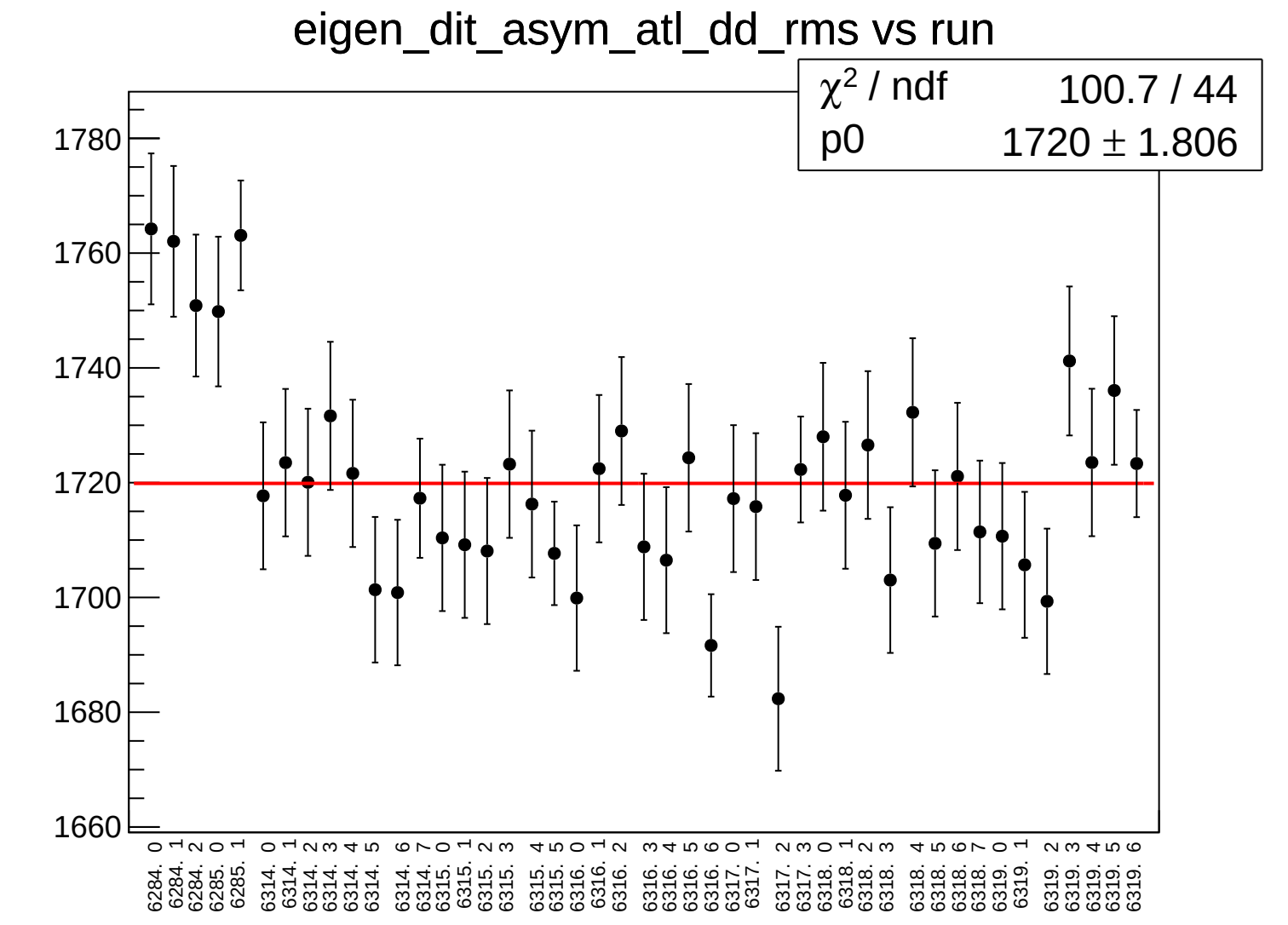
eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 100.7 / 44
p0 1720 ± 1.806
1780
1760
1740
1720
1700
1680
1660
6284. 0
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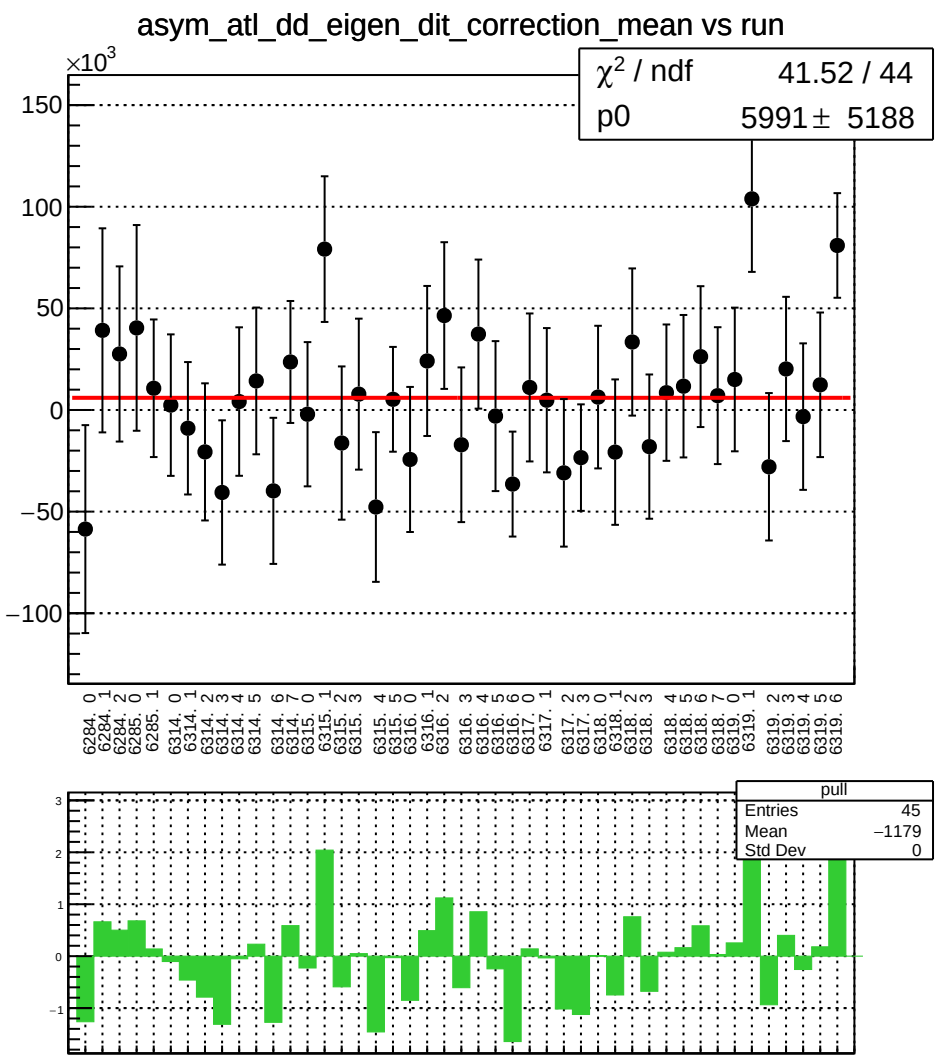
asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.52 / 44
p0 5991 ± 5188
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
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6319. 6
pull
Entries 45
Mean −1179
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean −0.002258
Std Dev 0.9605
10
8
6
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−6
−4
−2
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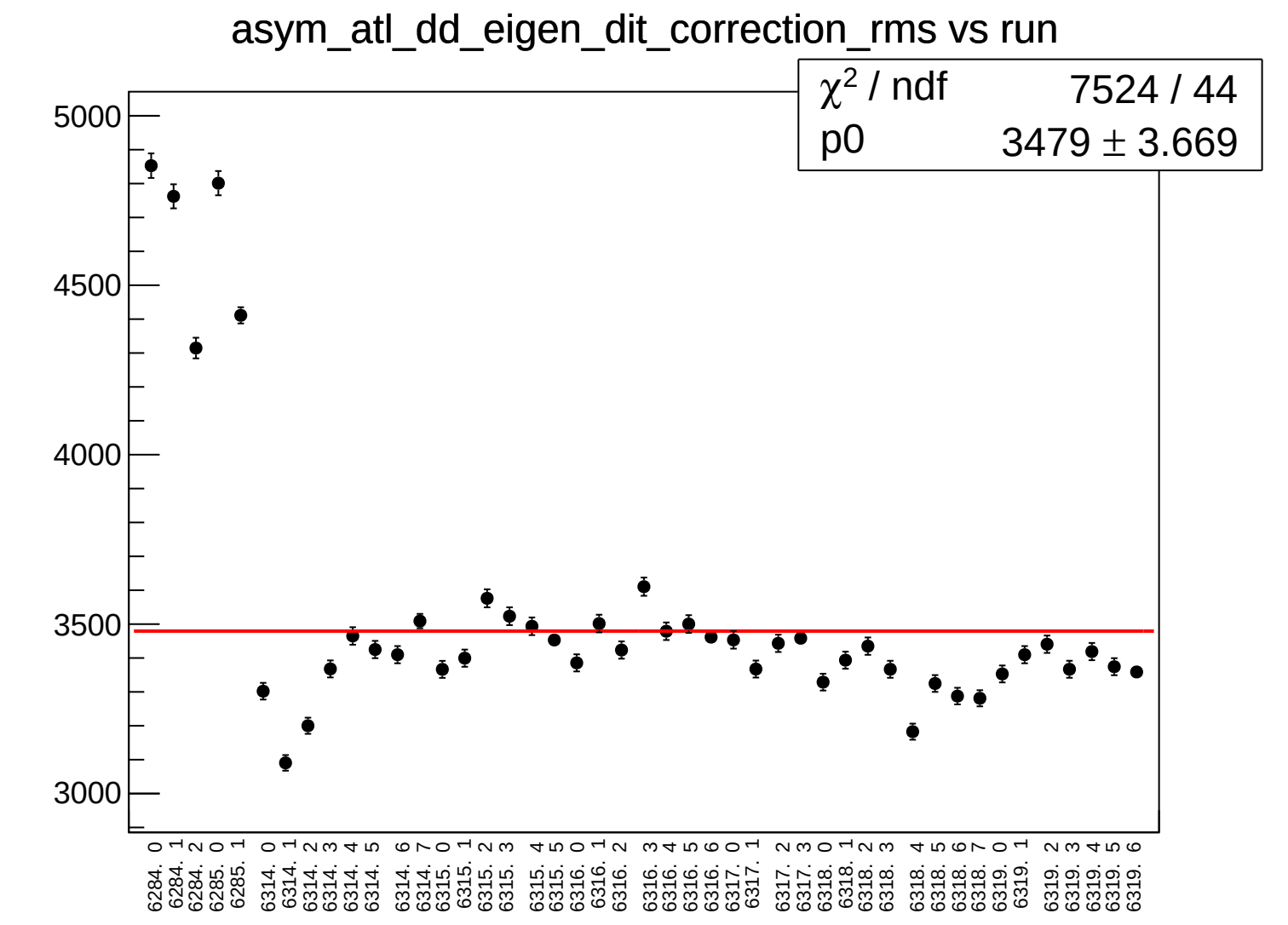
2
4
6
8


asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 7524 / 44
p0 3479 ± 3.669
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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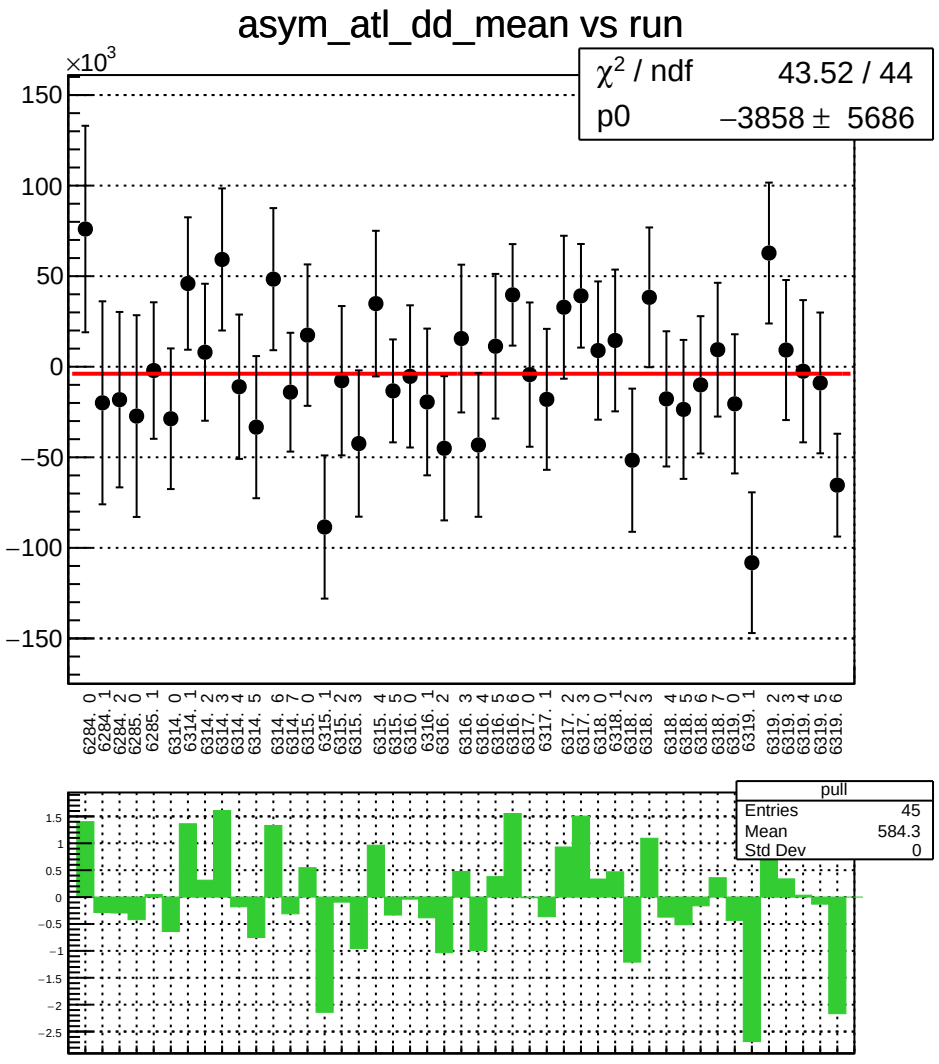
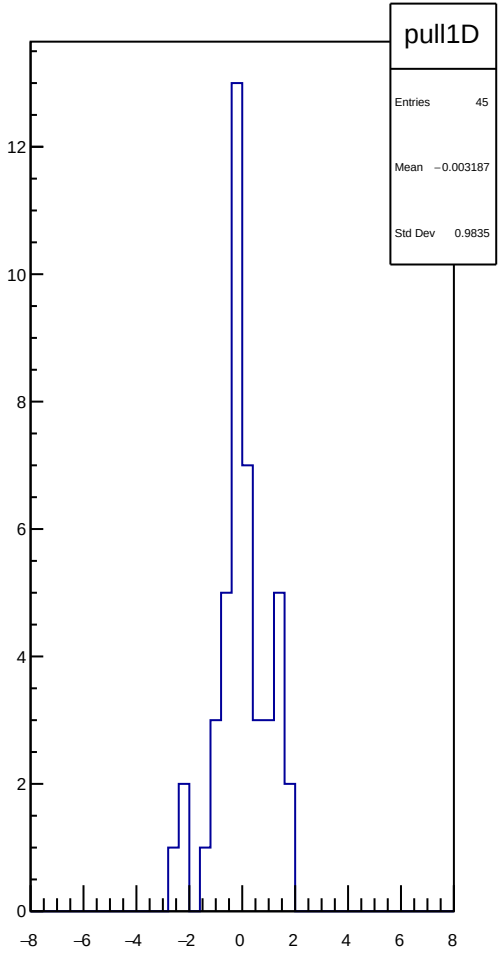
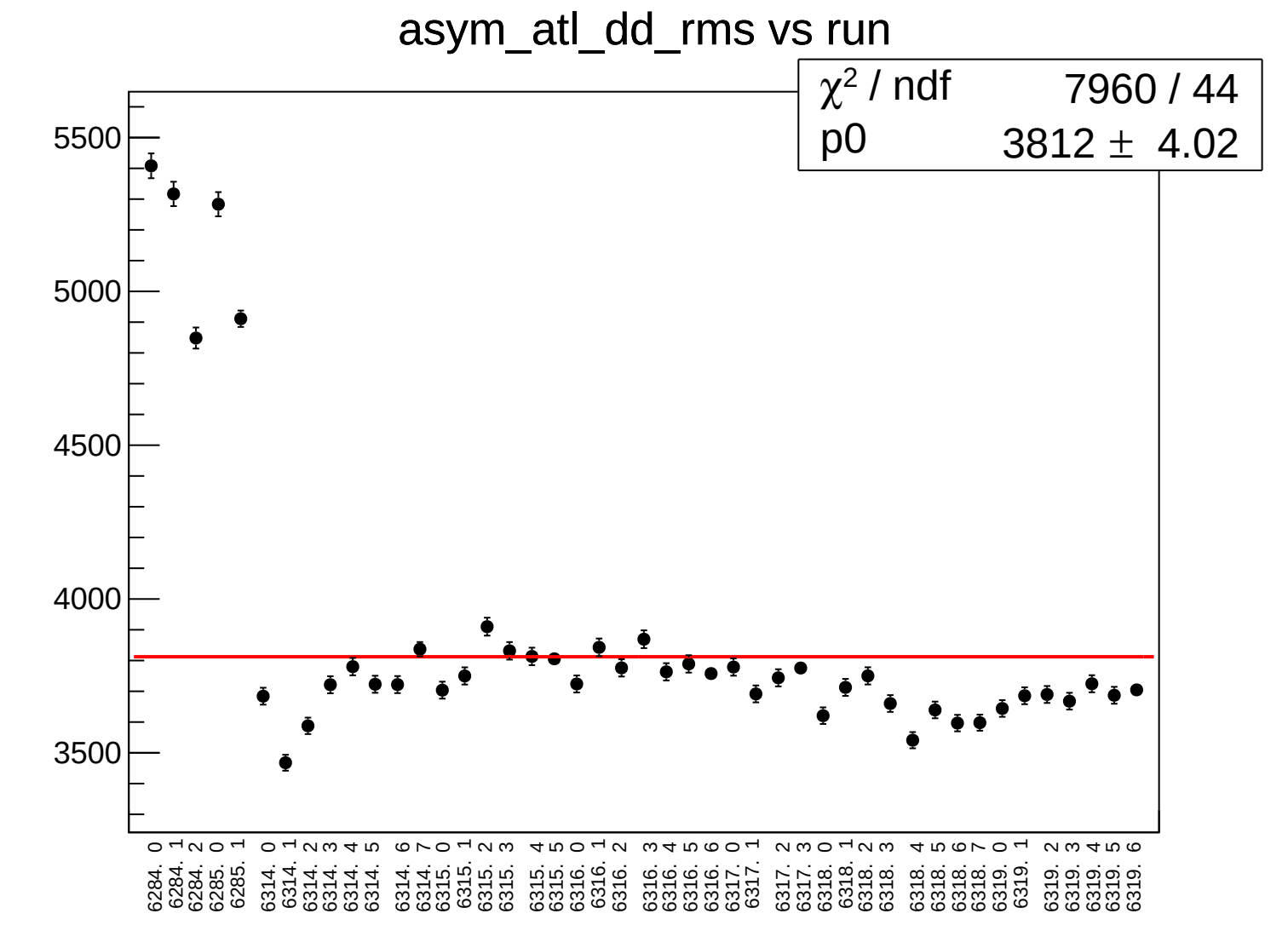
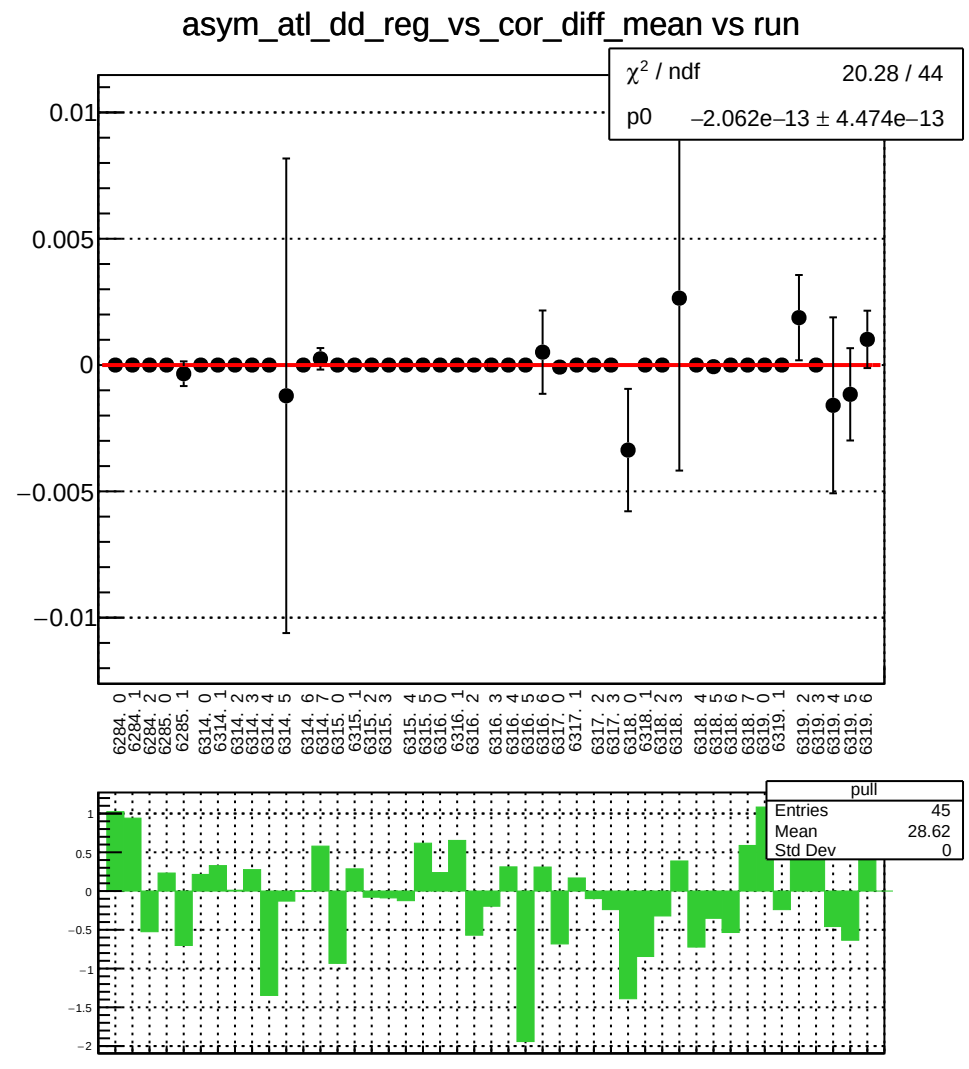
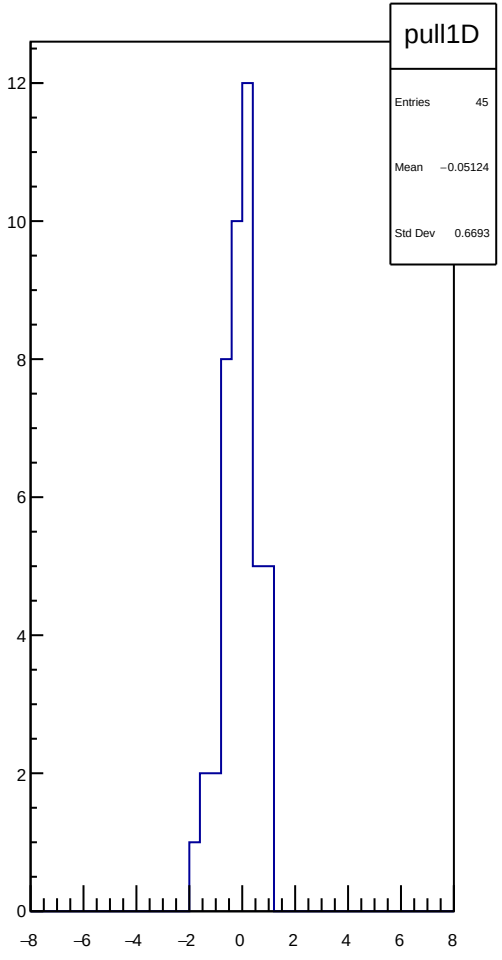
6319. 5
6319. 6

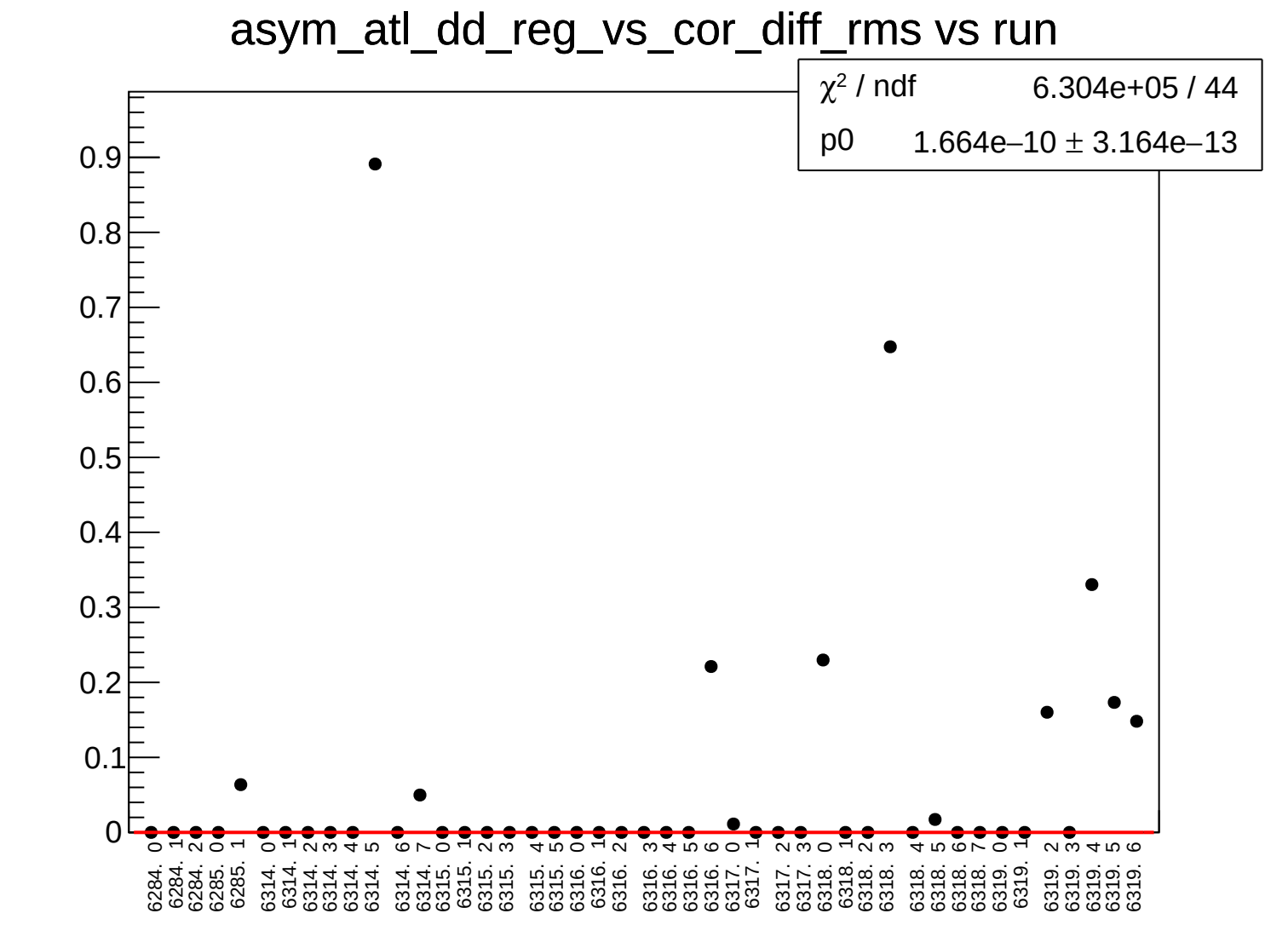

asym_atl_dd_mean vs run
×10^3
χ² / ndf 43.52 / 44
p0 −3858 ± 5686
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 584.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

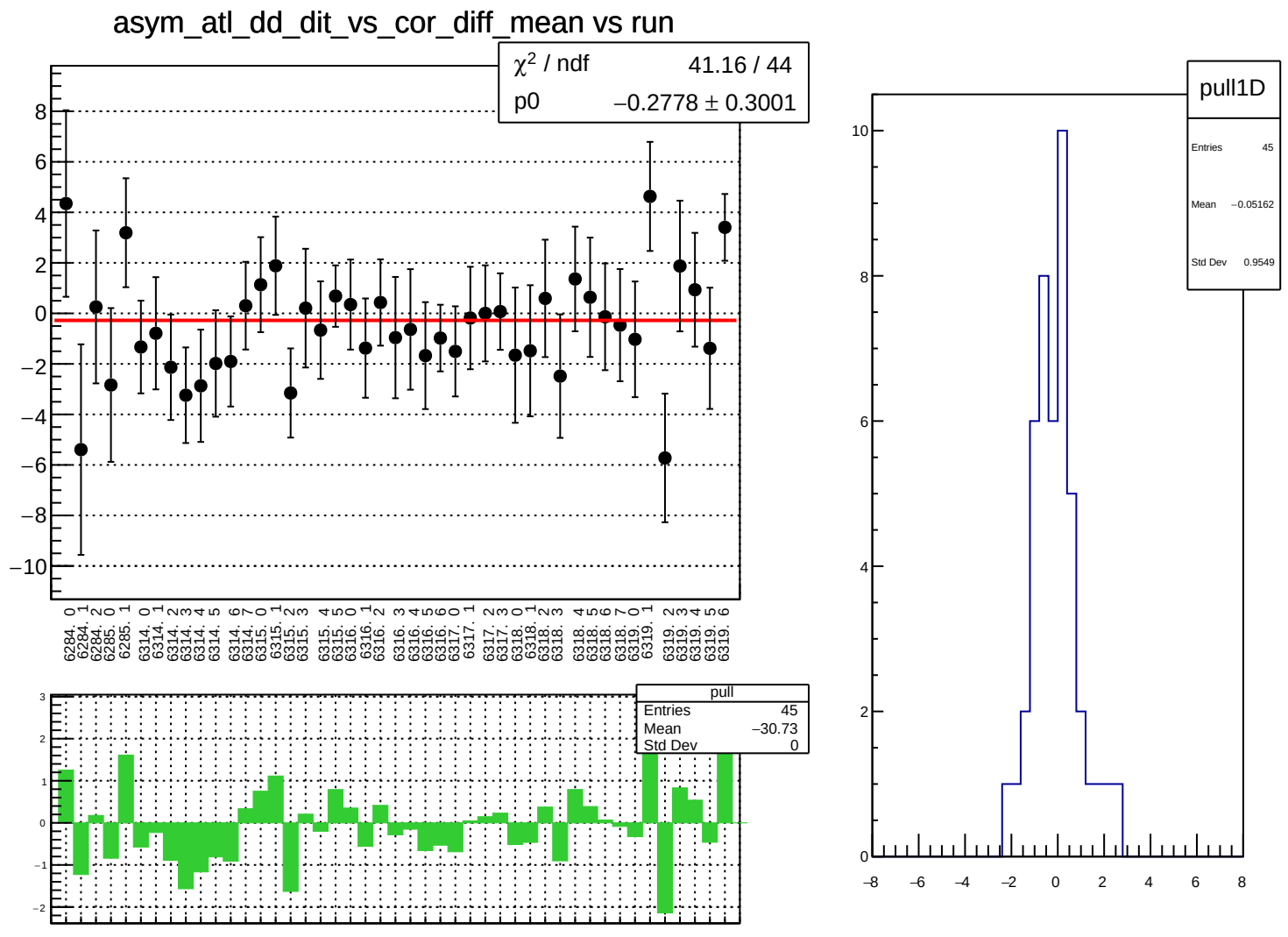

pull1D
Entries 45
Mean −0.003187
Std Dev 0.9835
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

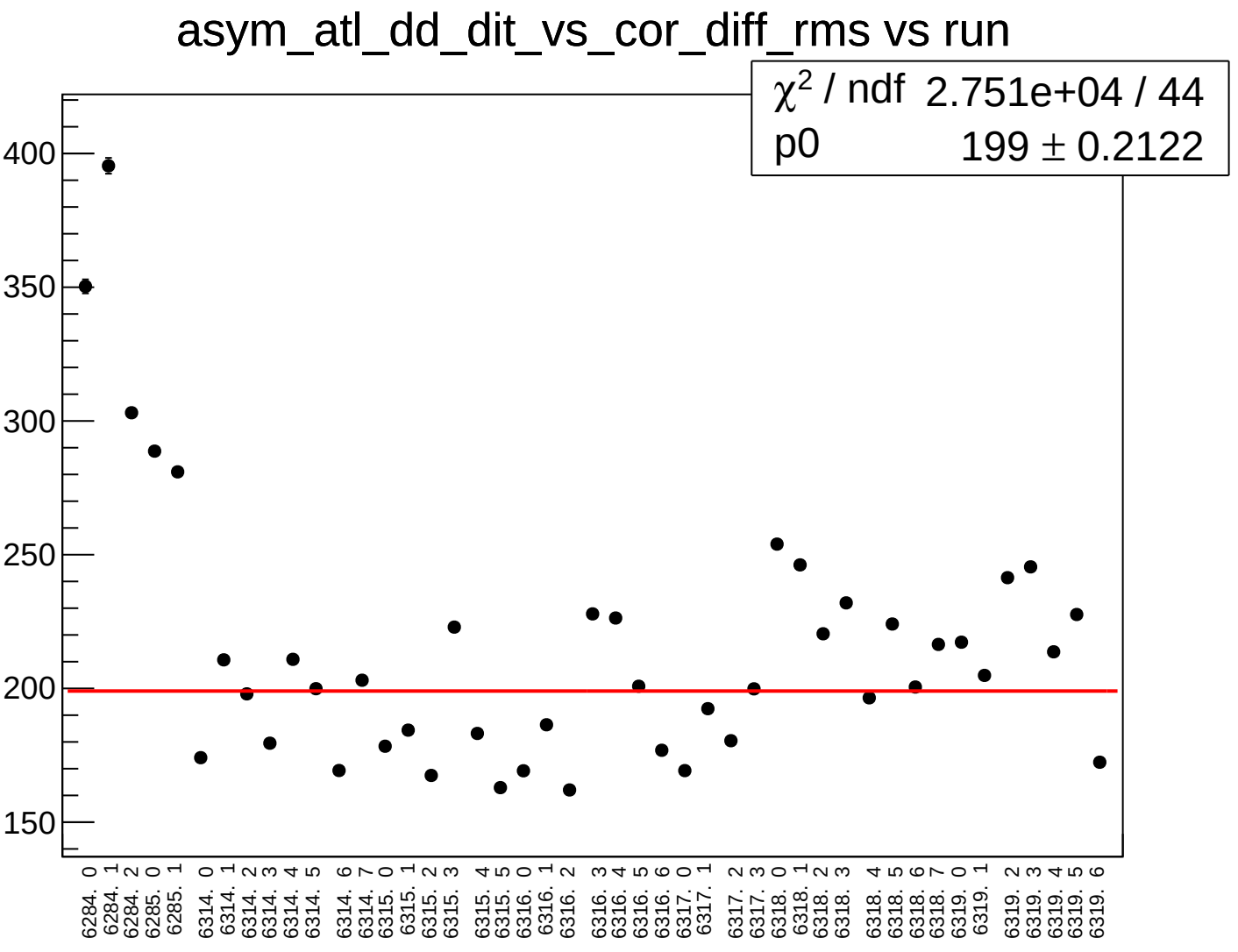

asym_atl_dd_rms vs run
χ² / ndf 7960 / 44
p0 3812 ± 4.02
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.28 / 44
p0 −2.062e−13 ± 4.474e−13
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 28.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.05124
Std Dev 0.6693
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.304e+05 / 44
p0 1.664e−10 ± 3.164e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.16 / 44
p0 −0.2778 ± 0.3001
pull
Entries 45
Mean −30.73
Std Dev 0
pull1D
Entries 45
Mean −0.05162
Std Dev 0.9549


asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.751e+04 / 44
p0 199 ± 0.2122
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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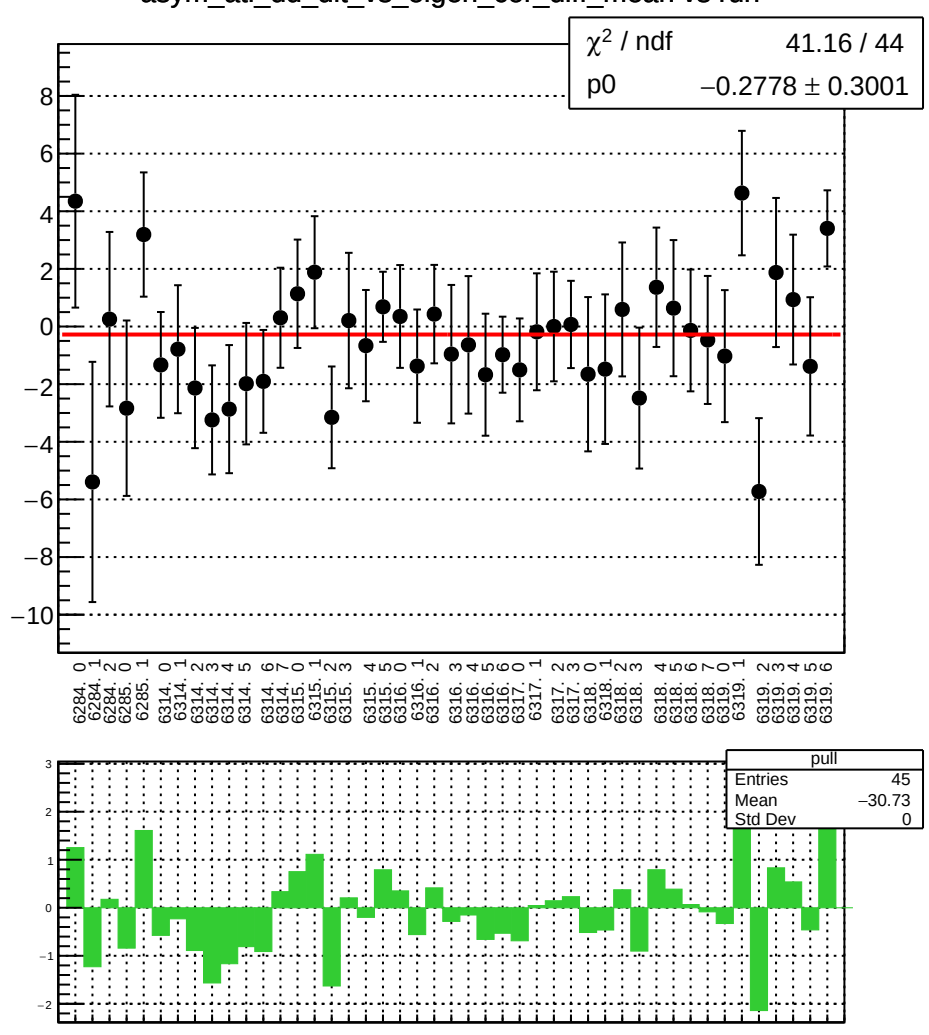
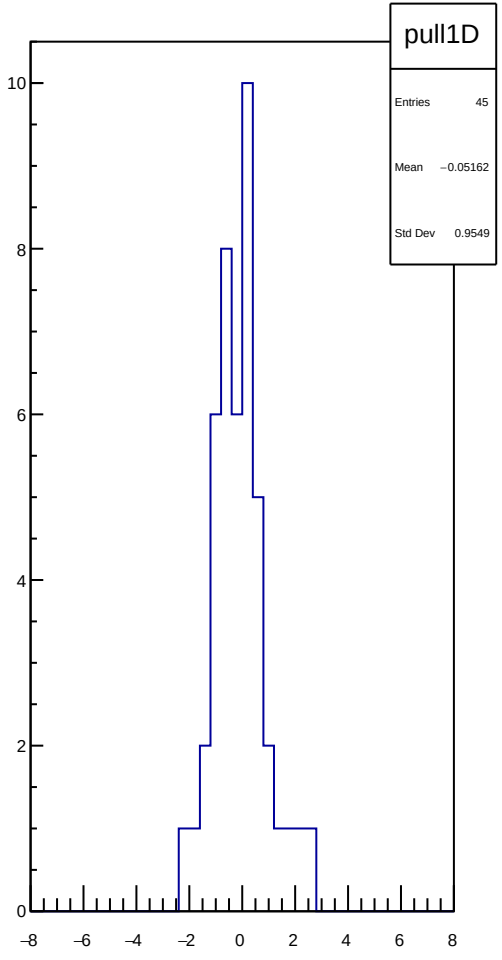
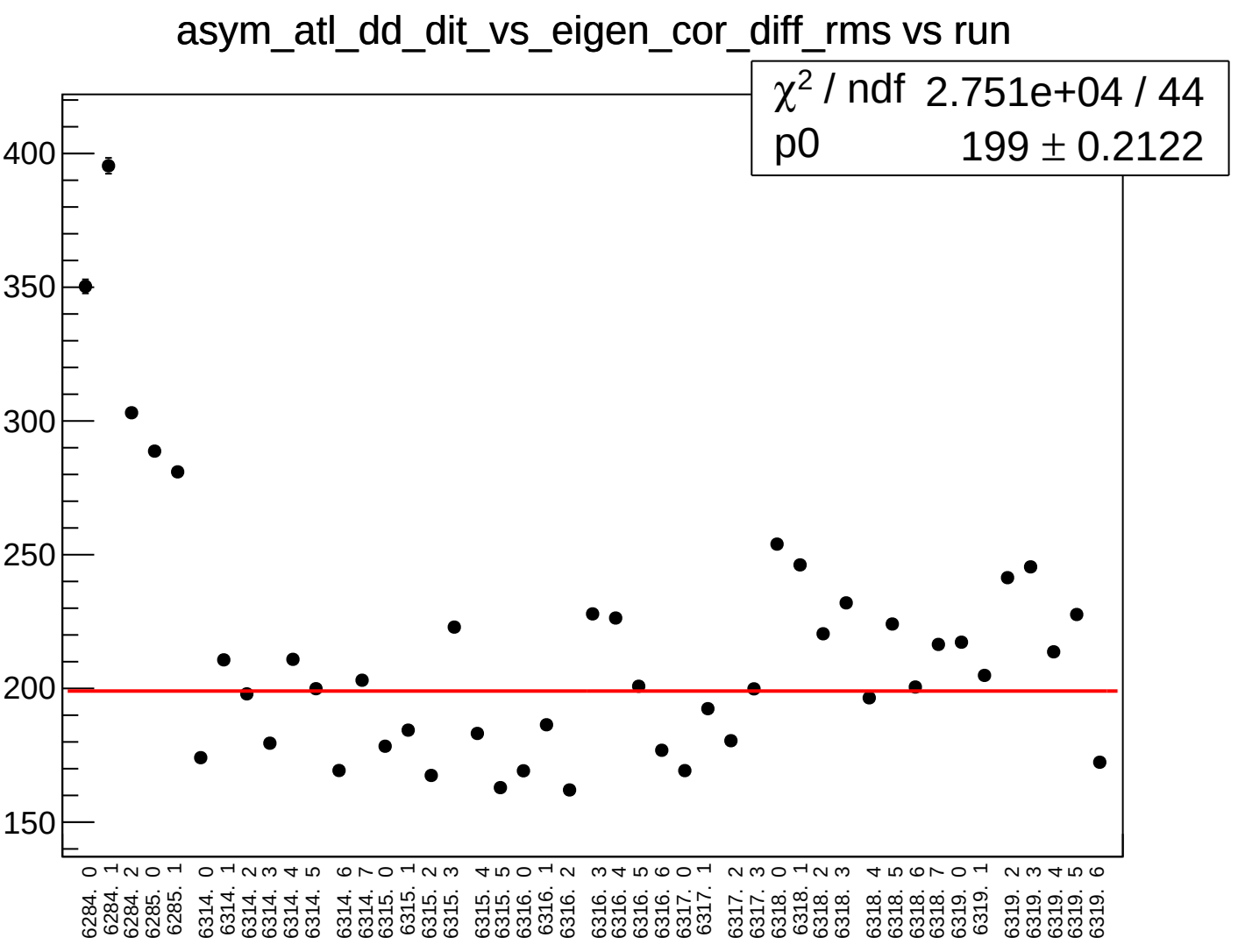
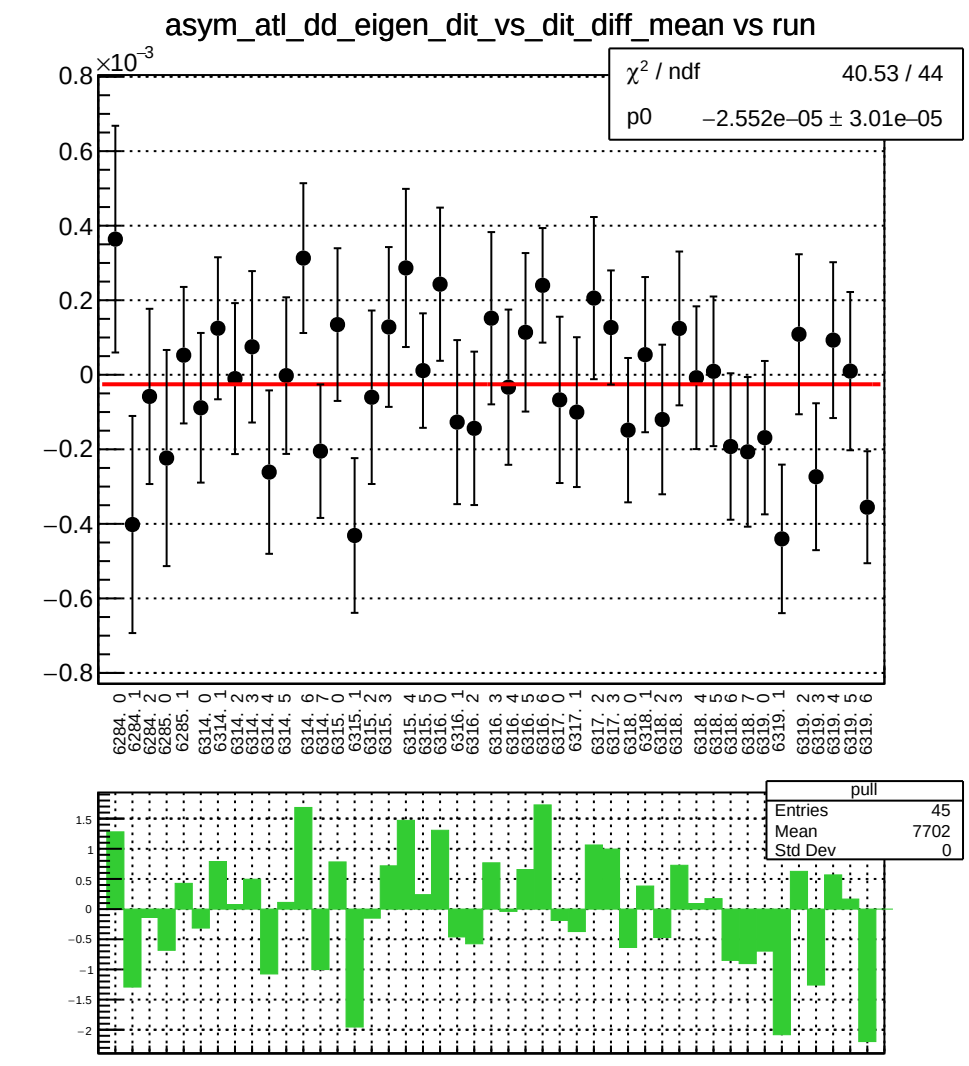
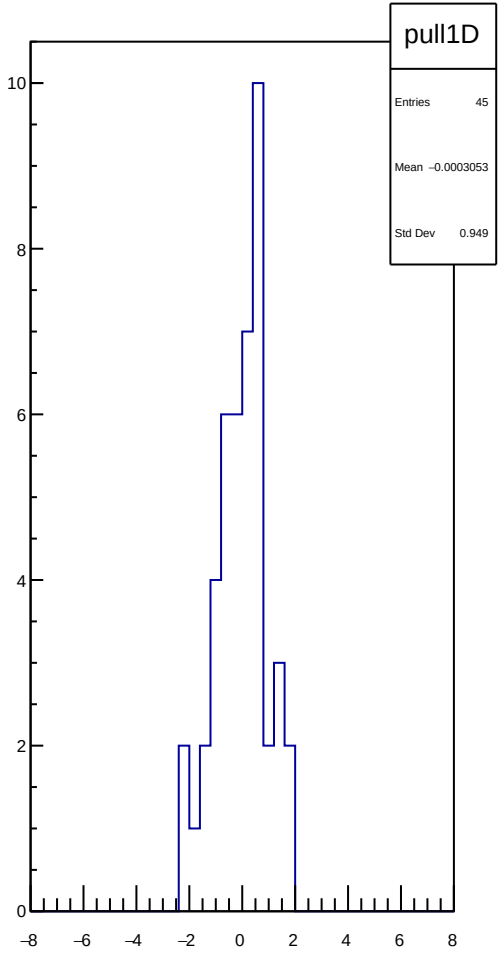
6319. 5
6319. 6

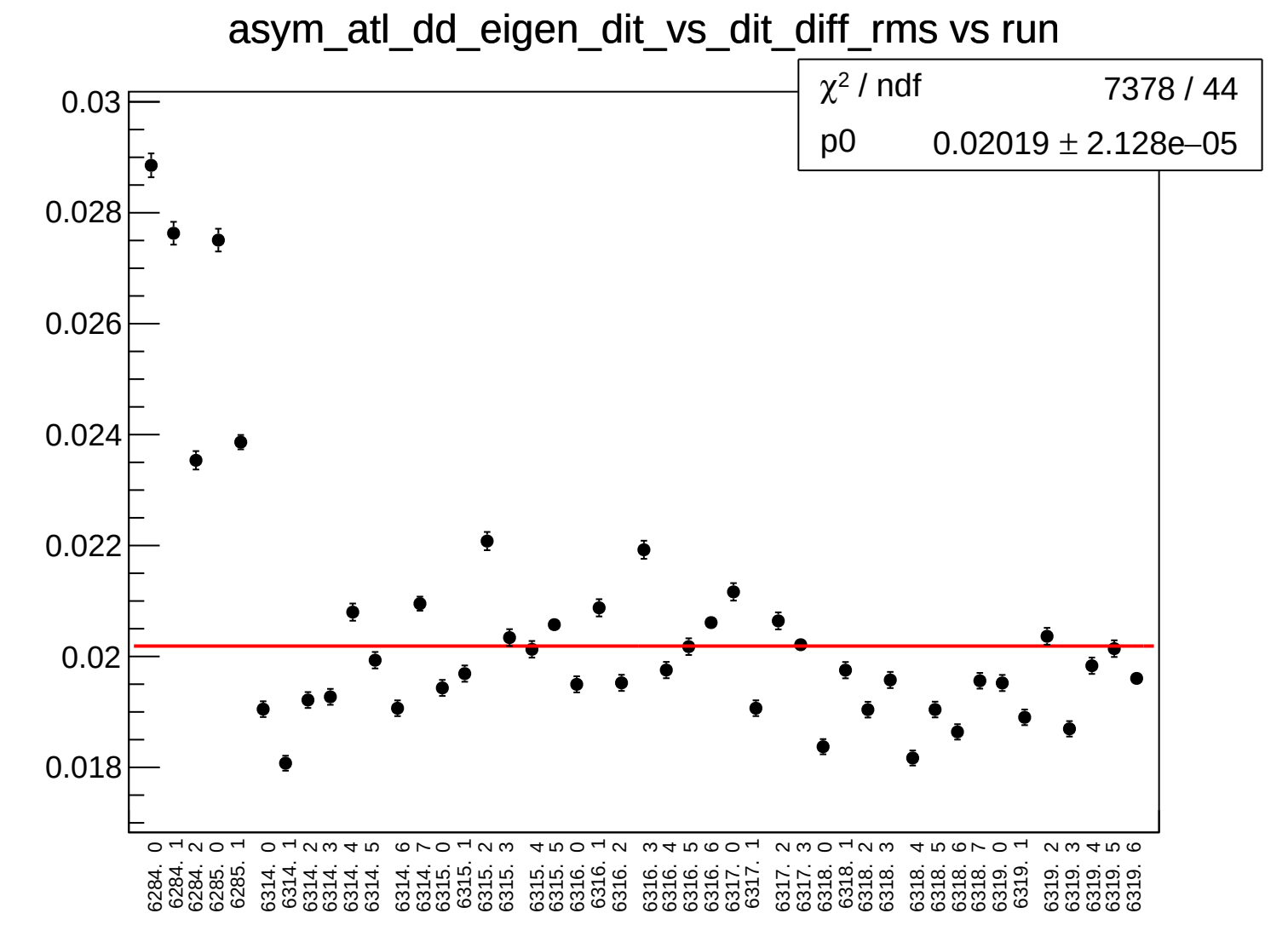

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.16 / 44
p0 −0.2778 ± 0.3001
pull
Entries 45
Mean −30.73
Std Dev 0


pull1D
Entries 45
Mean −0.05162
Std Dev 0.9549

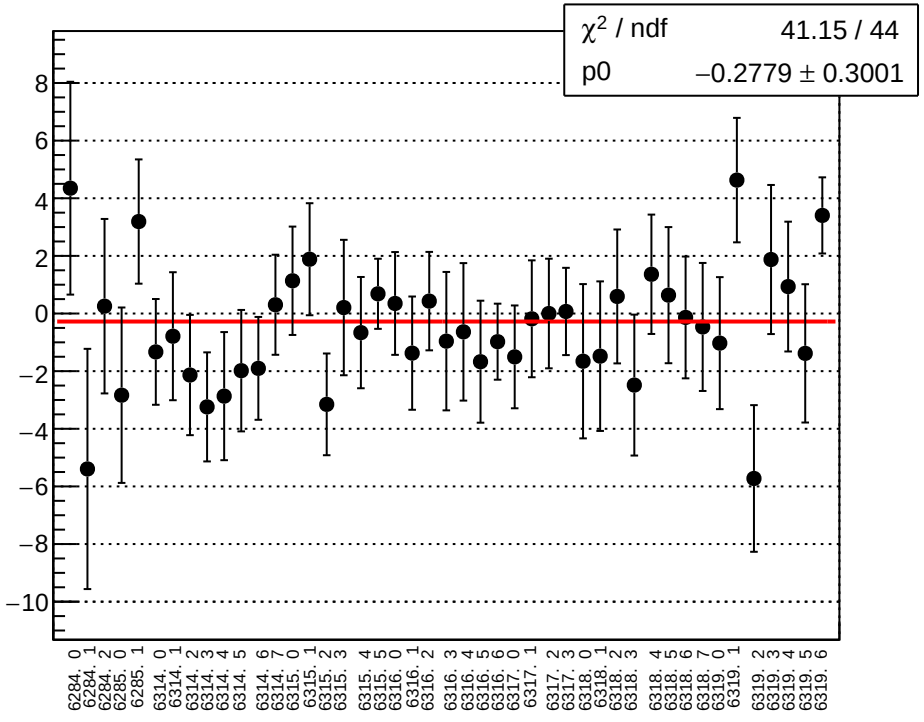

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.751e+04 / 44
p0 199 ± 0.2122
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

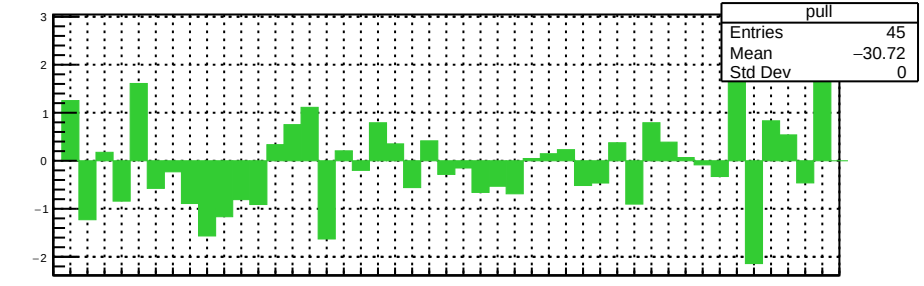

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.53 / 44
p0 −2.552e−05 ± 3.01e−05
×10⁻³
pull
Entries 45
Mean 7702
Std Dev 0

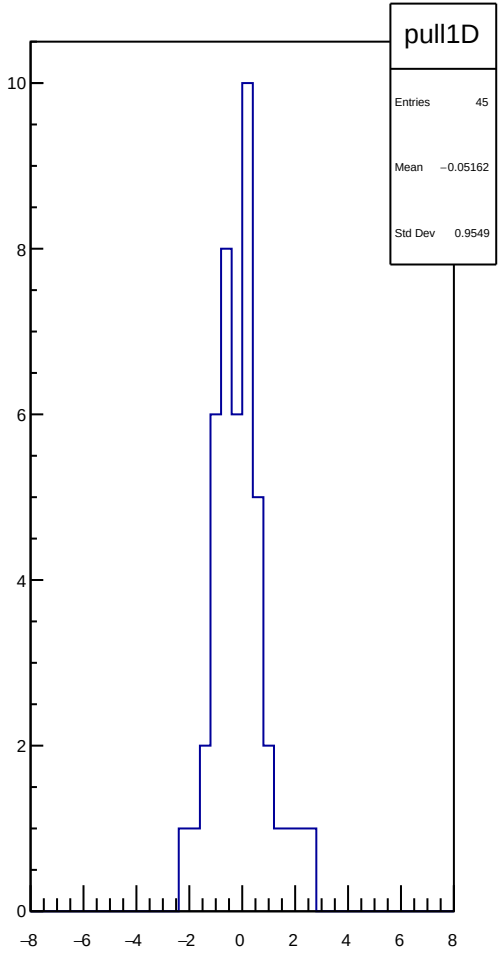

pull1D
Entries 45
Mean −0.0003053
Std Dev 0.949

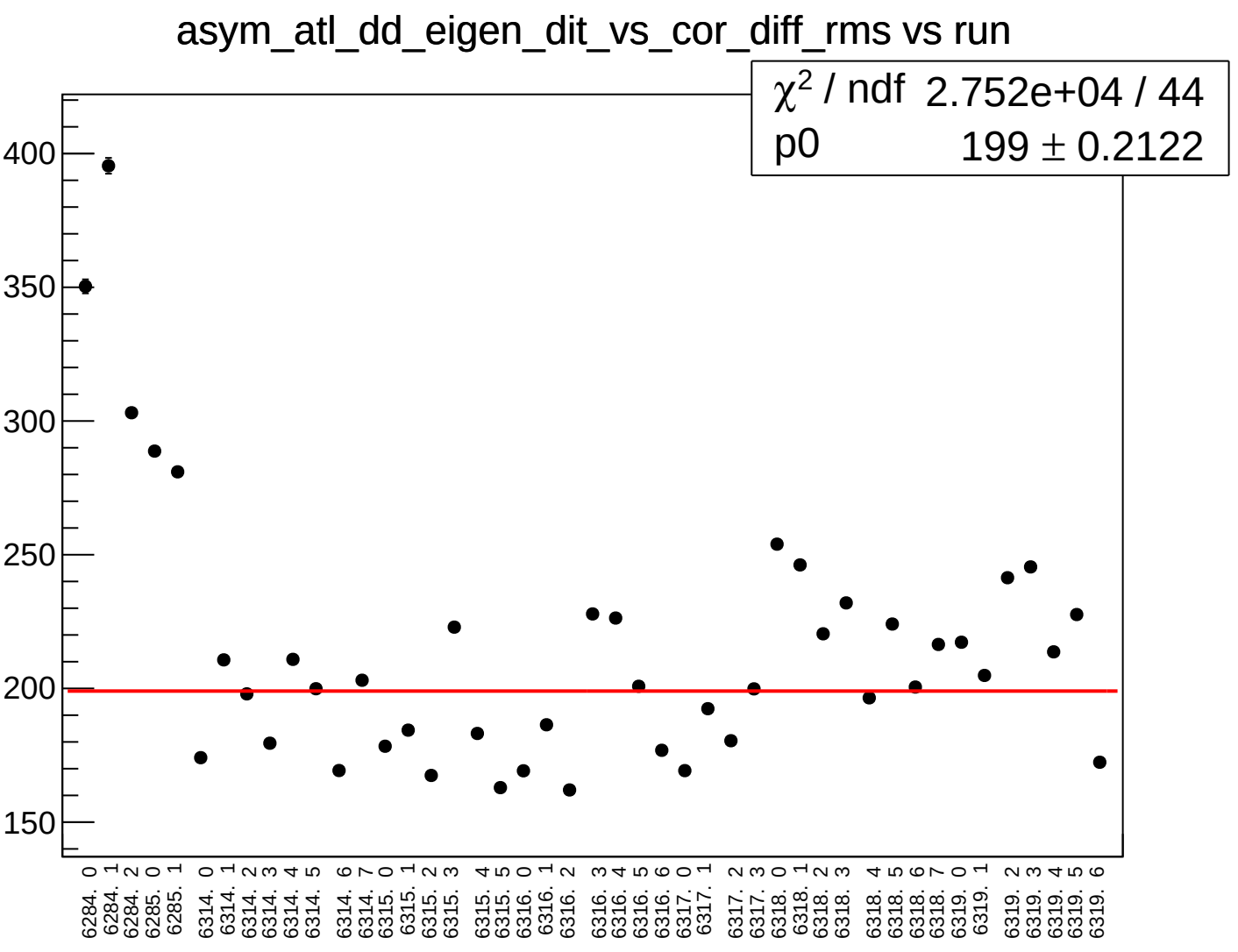

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7378 / 44
p0 0.02019 ± 2.128e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

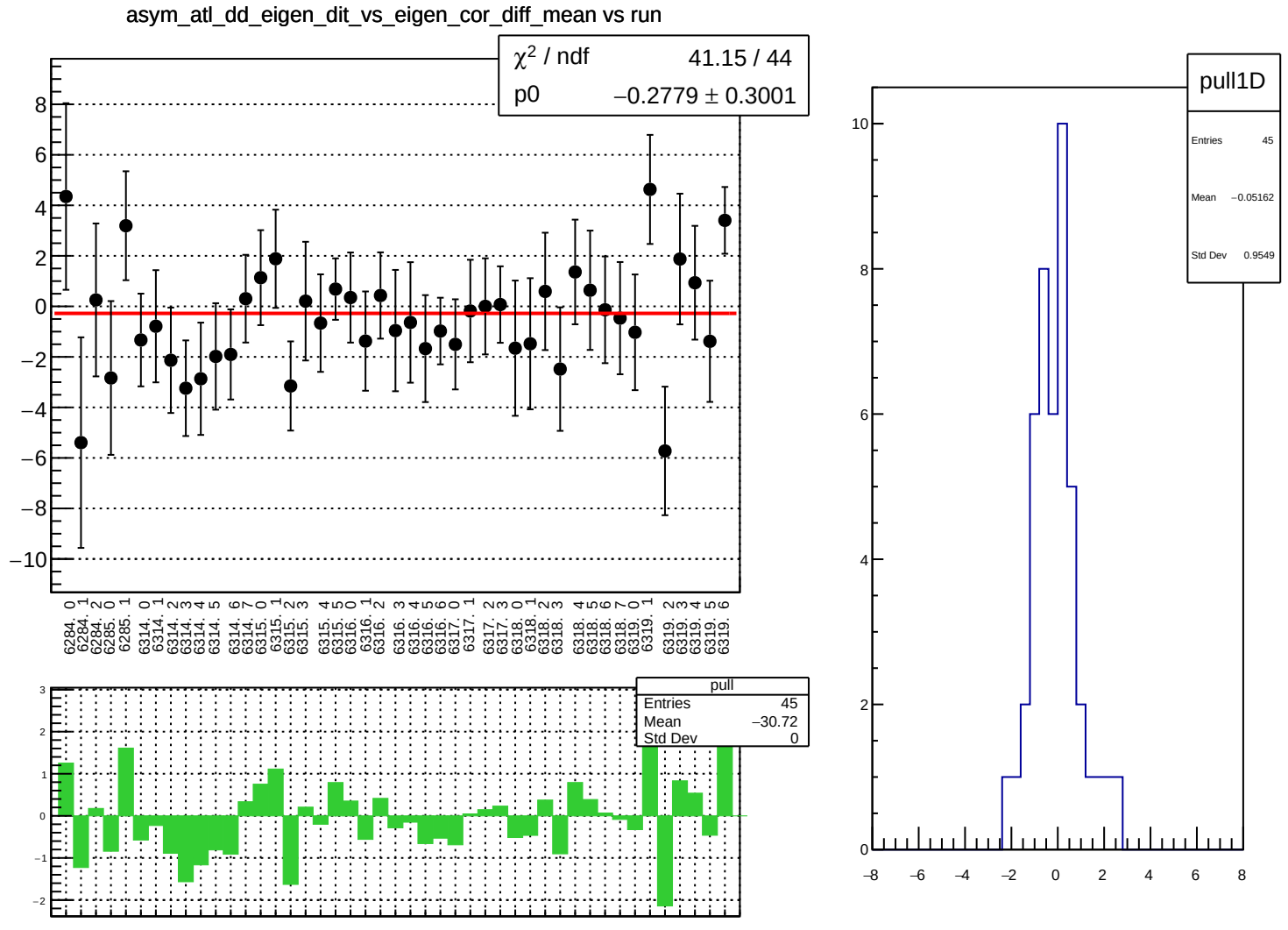
asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run

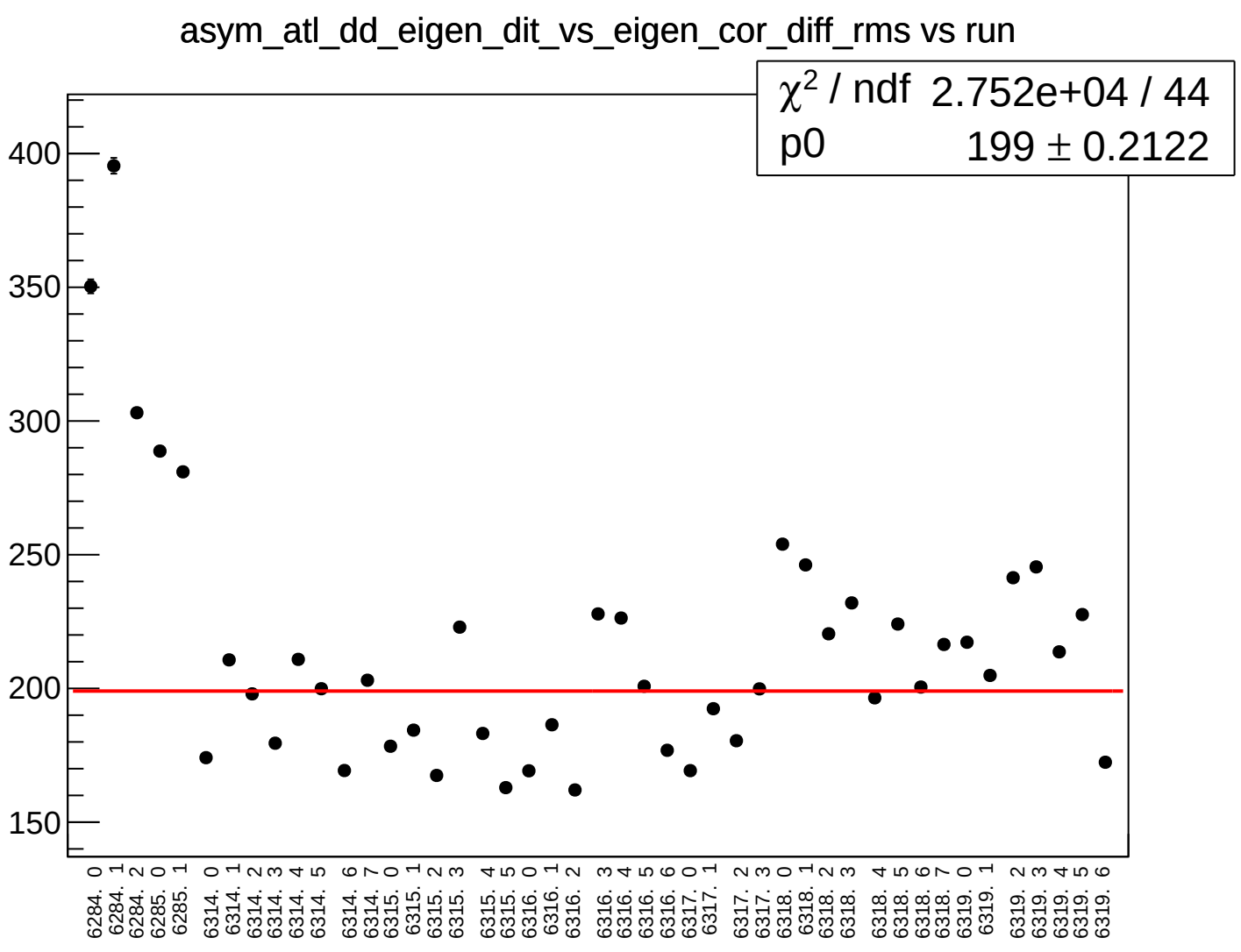


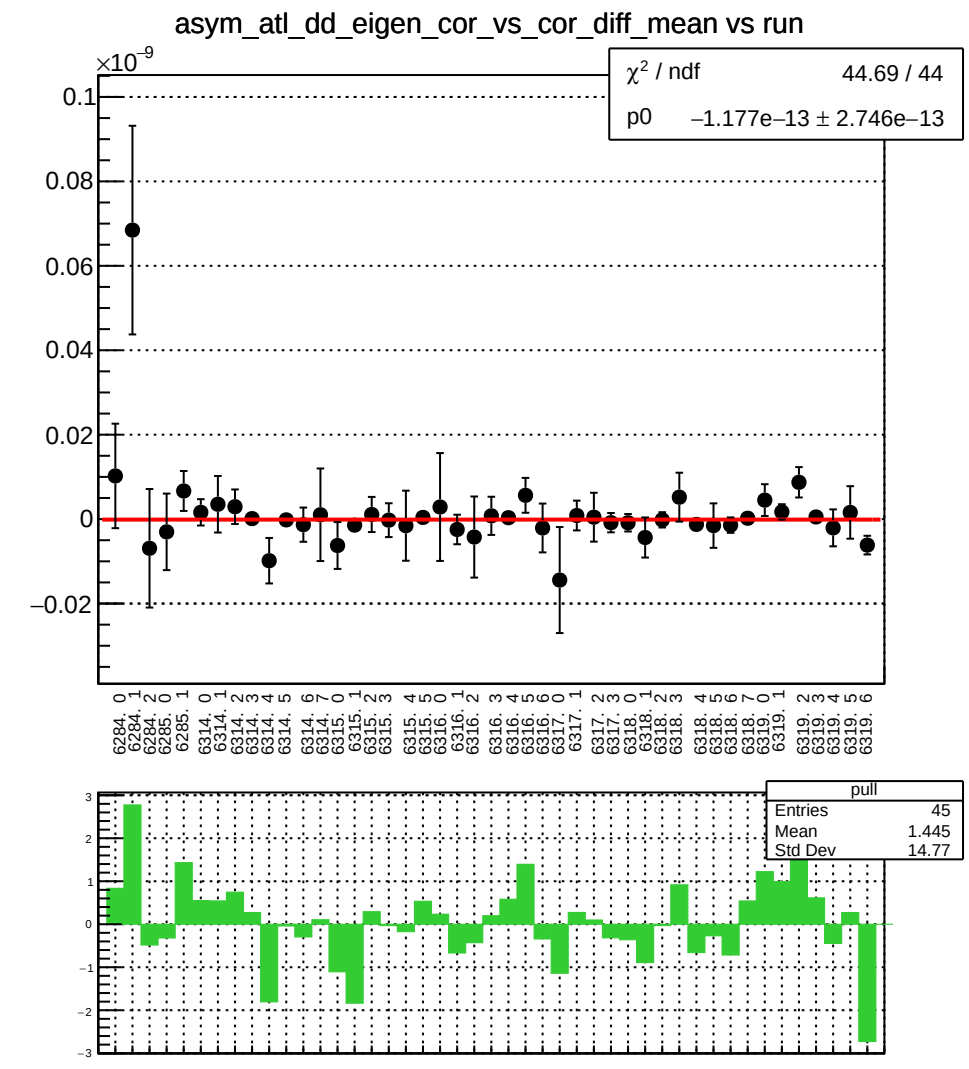


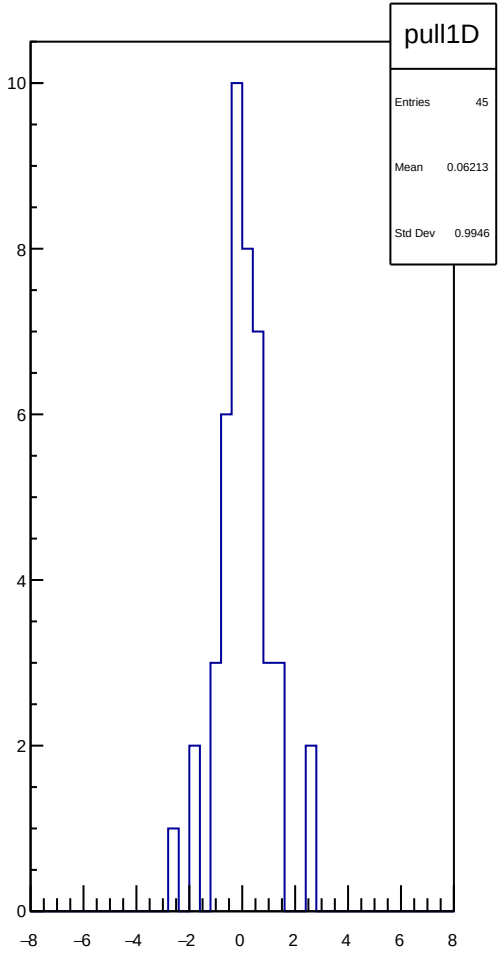


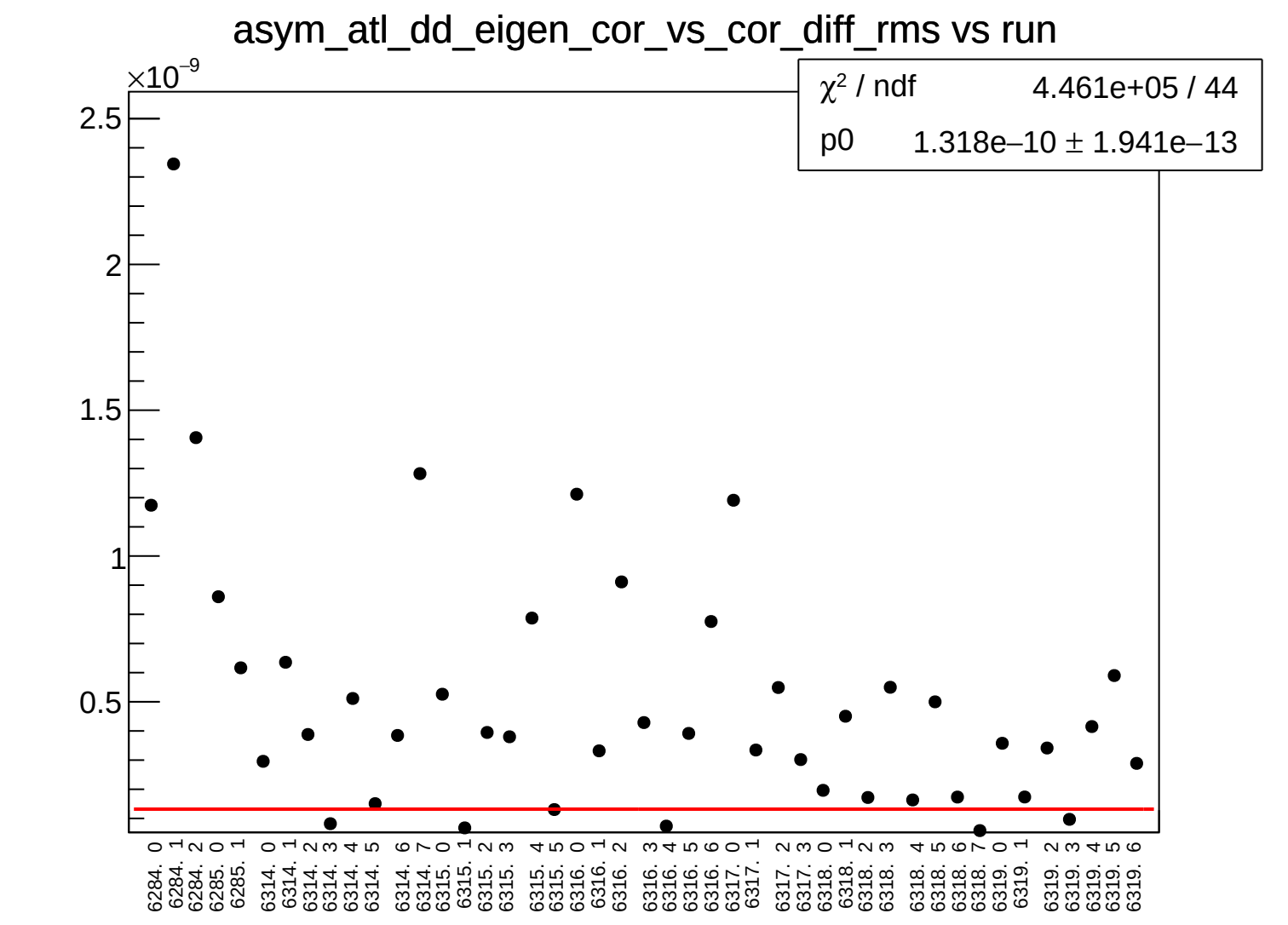

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.752e+04 / 44
p0 199 ± 0.2122
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

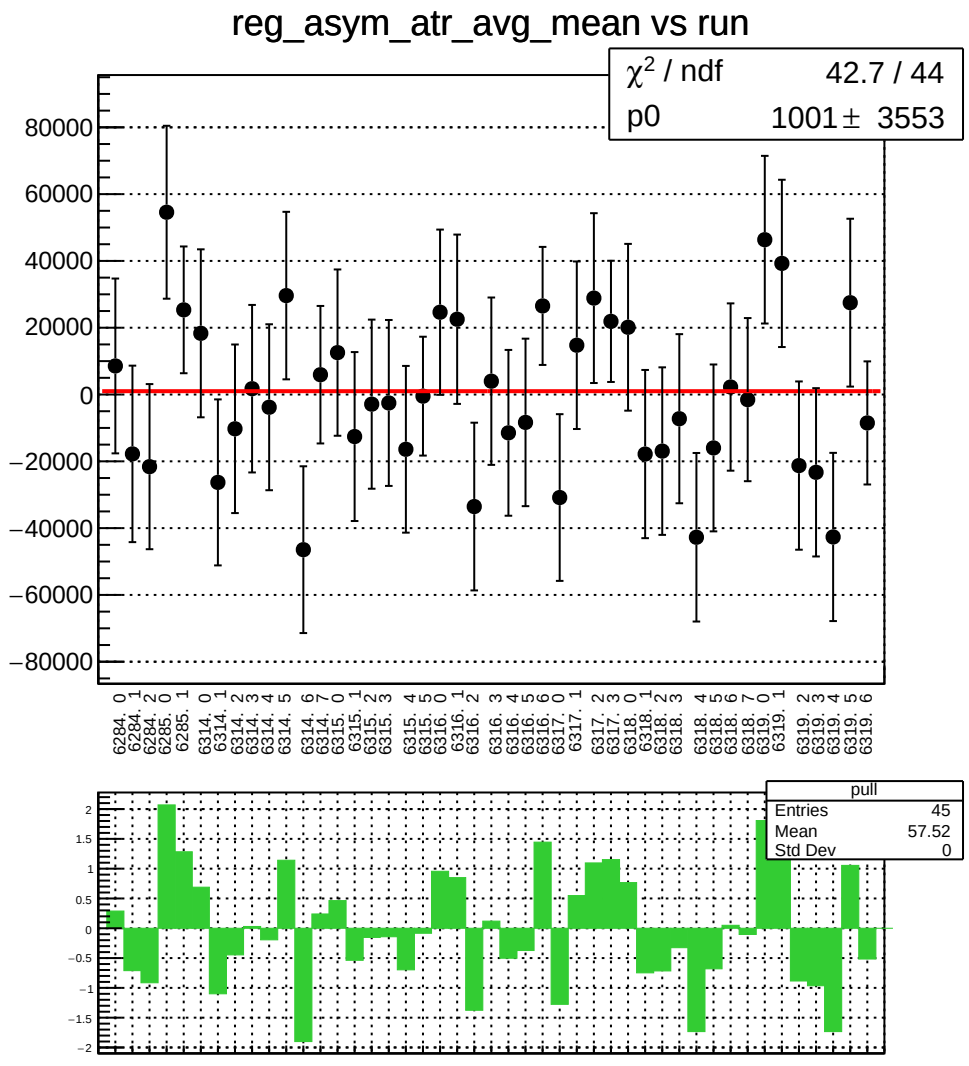

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.15 / 44
p0 −0.2779 ± 0.3001
pull
Entries 45
Mean −30.72
Std Dev 0
pull1D
Entries 45
Mean −0.05162
Std Dev 0.9549

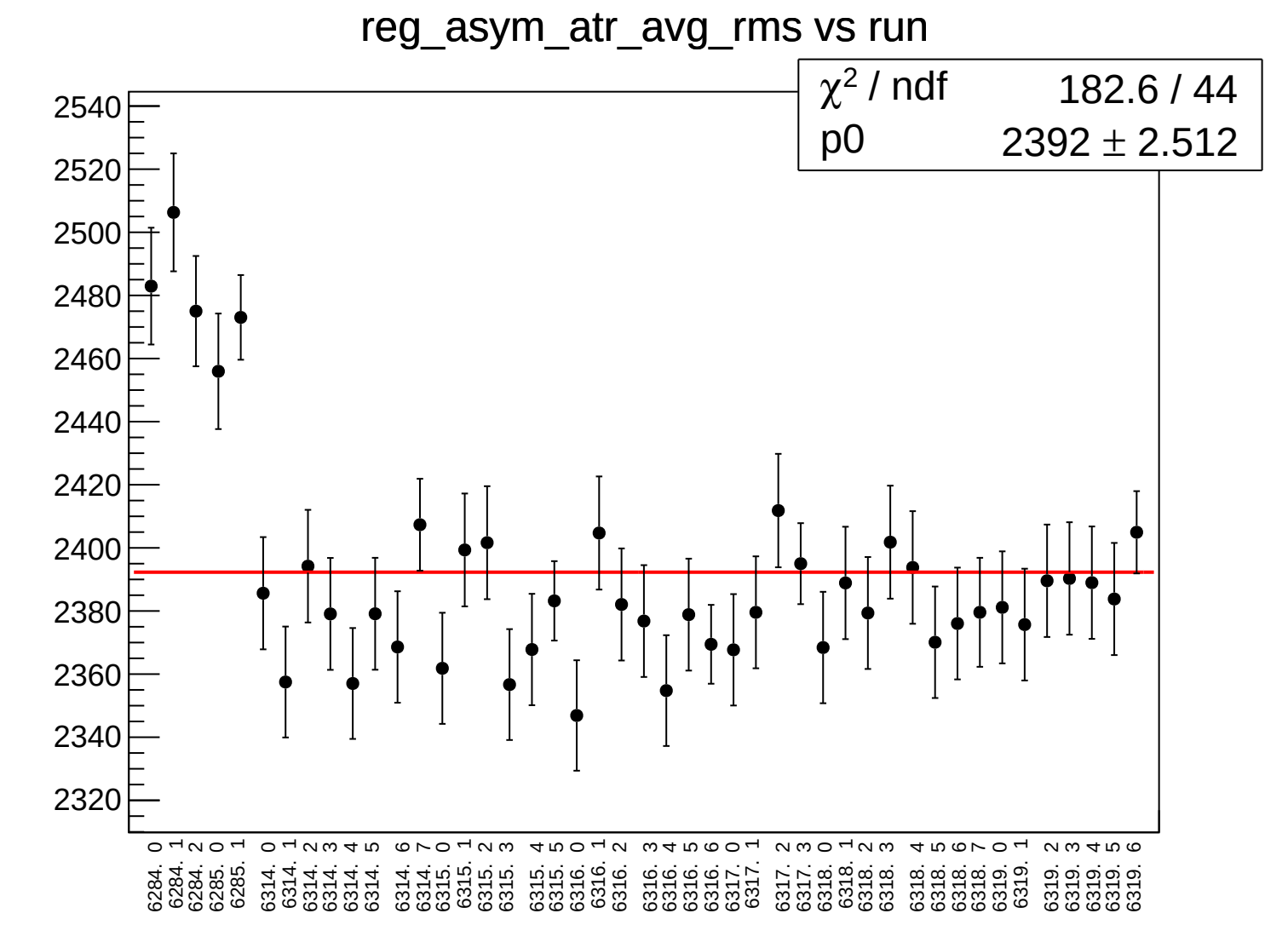

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.752e+04 / 44
p0 199 ± 0.2122
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 44.69 / 44
p0 −1.177e−13 ± 2.746e−13
pull
Entries 45
Mean 1.445
Std Dev 14.77


pull1D
Entries 45
Mean 0.06213
Std Dev 0.9946


asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.461e+05 / 44
p0 1.318e−10 ± 1.941e−13
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atr_avg_mean vs run
χ² / ndf 42.7 / 44
p0 1001 ± 3553
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 57.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02734
Std Dev 0.9737
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_rms vs run
χ² / ndf 182.6 / 44
p0 2392 ± 2.512
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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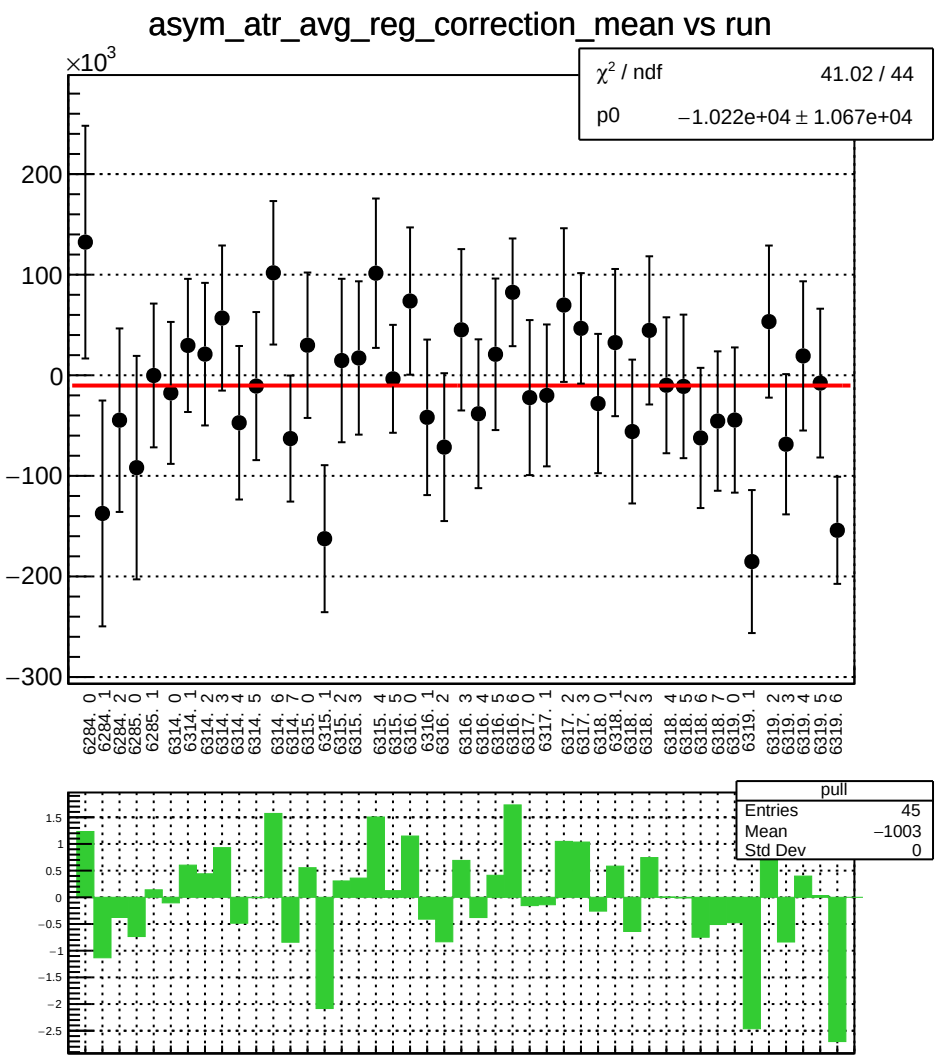
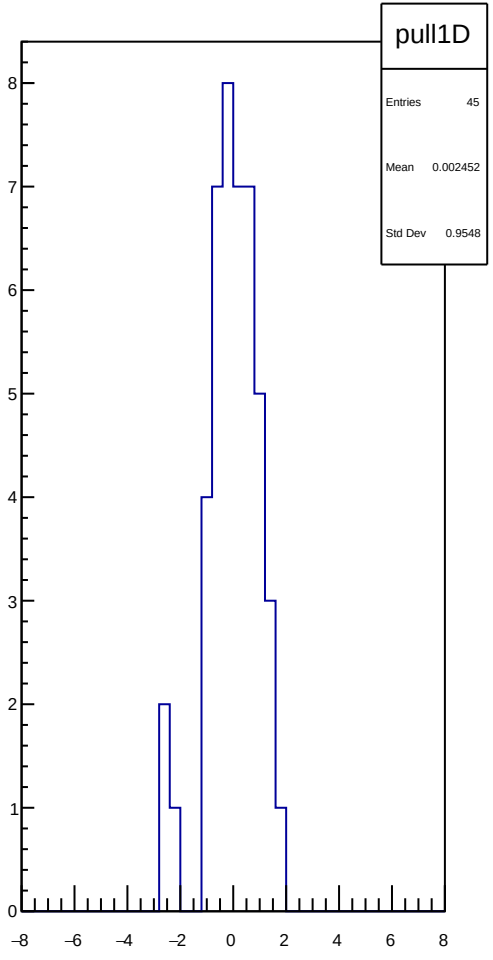
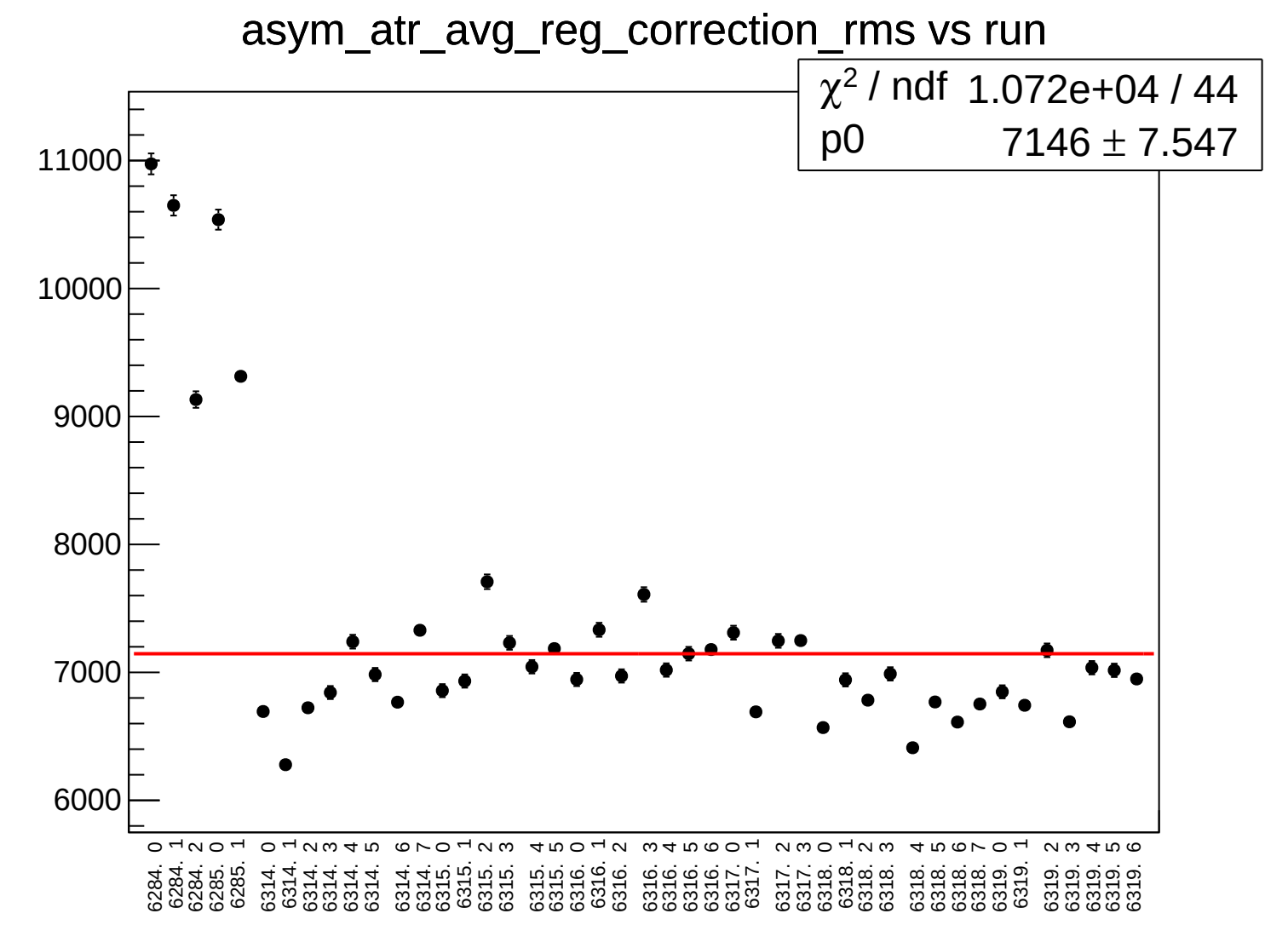
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.02 / 44
p0 −1.022e+04 ± 1.067e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1003
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002452
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.072e+04 / 44
p0 7146 ± 7.547
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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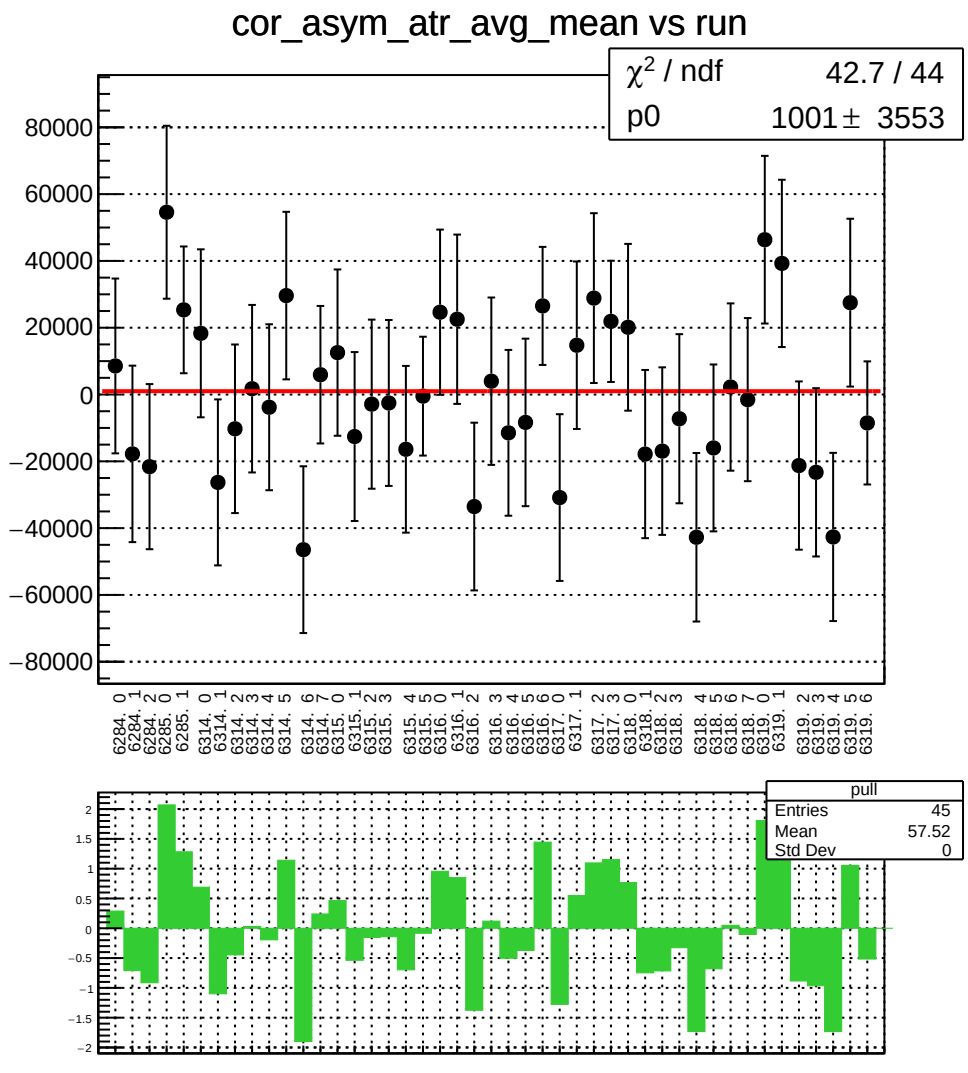
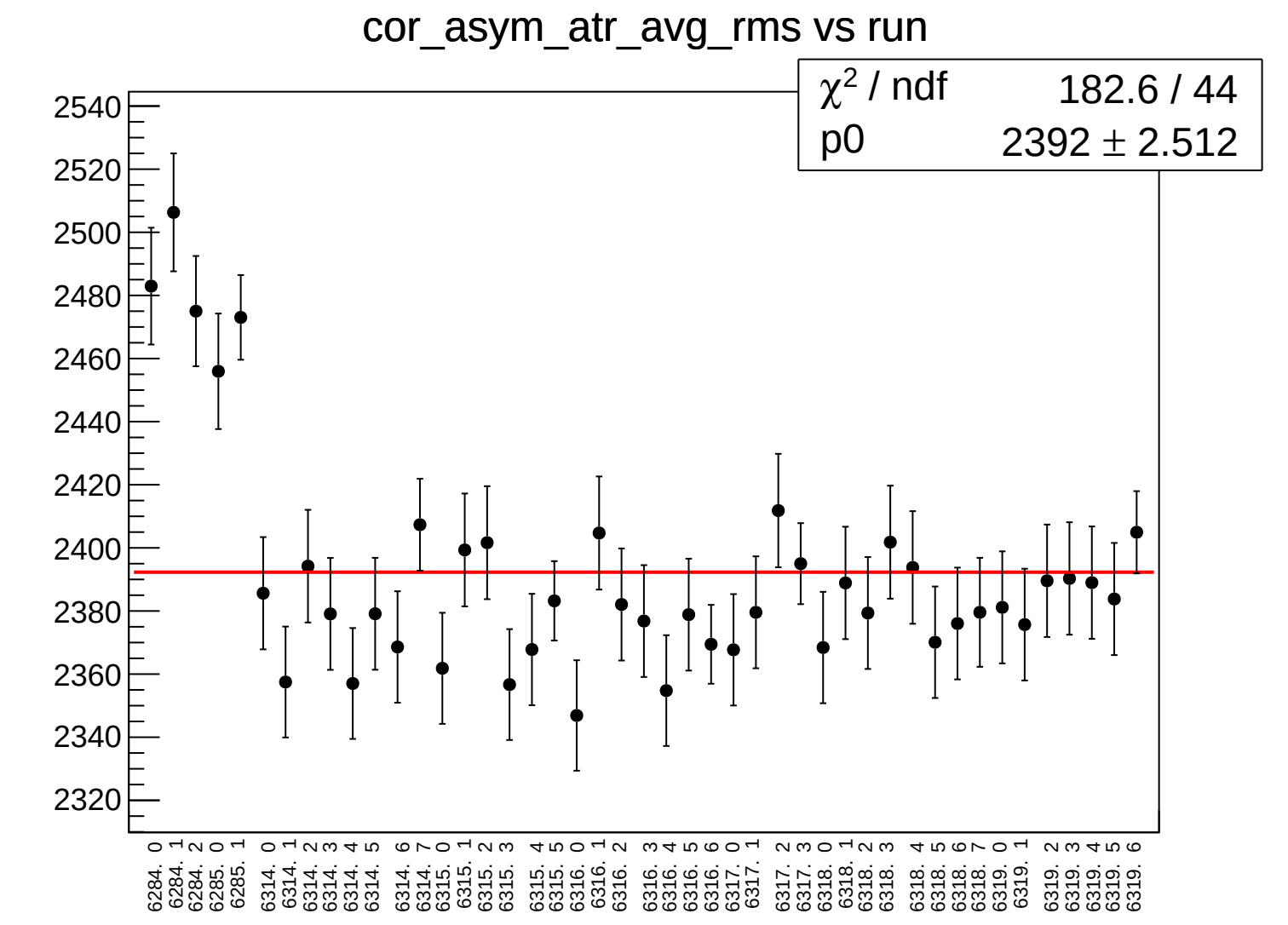
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atr_avg_mean vs run
χ² / ndf 42.7 / 44
p0 1001 ± 3553
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 57.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02734
Std Dev 0.9737
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_avg_rms vs run
χ² / ndf 182.6 / 44
p0 2392 ± 2.512
2540
2520
2500
2480
2460
2440
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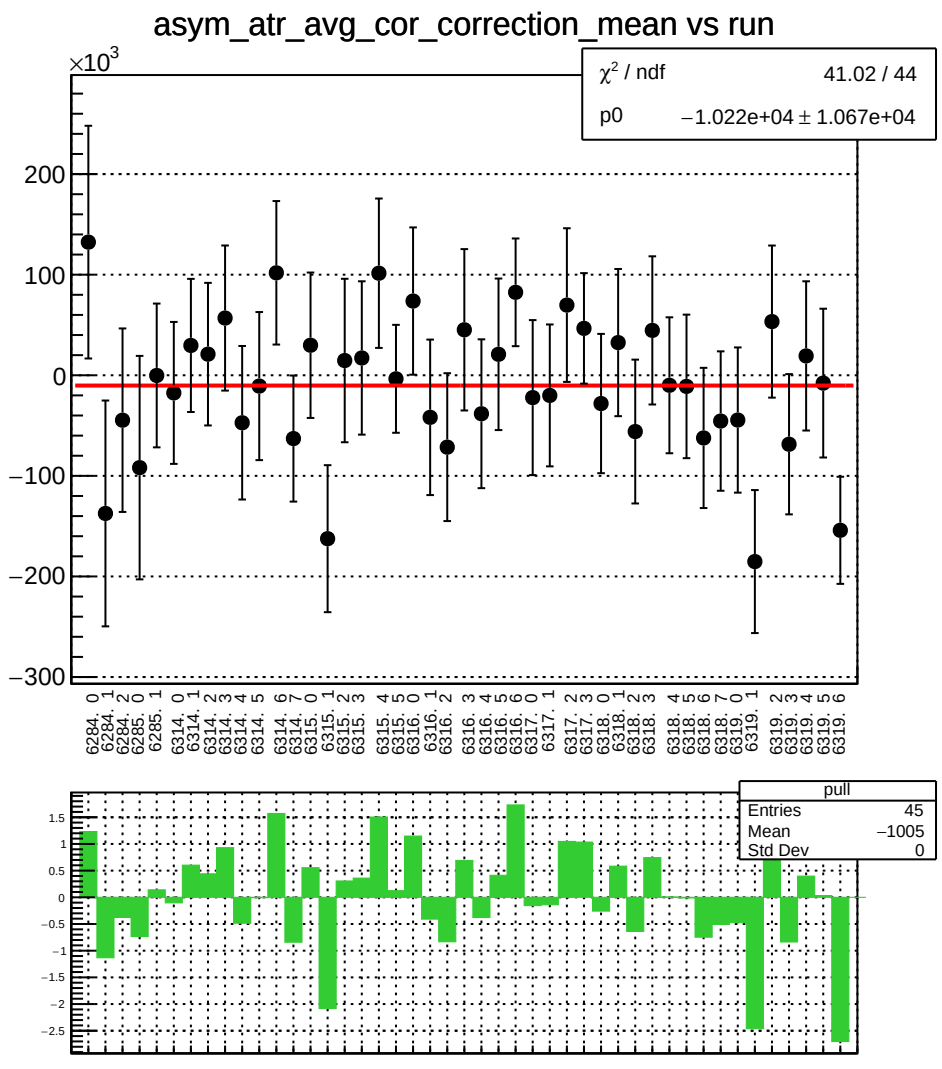
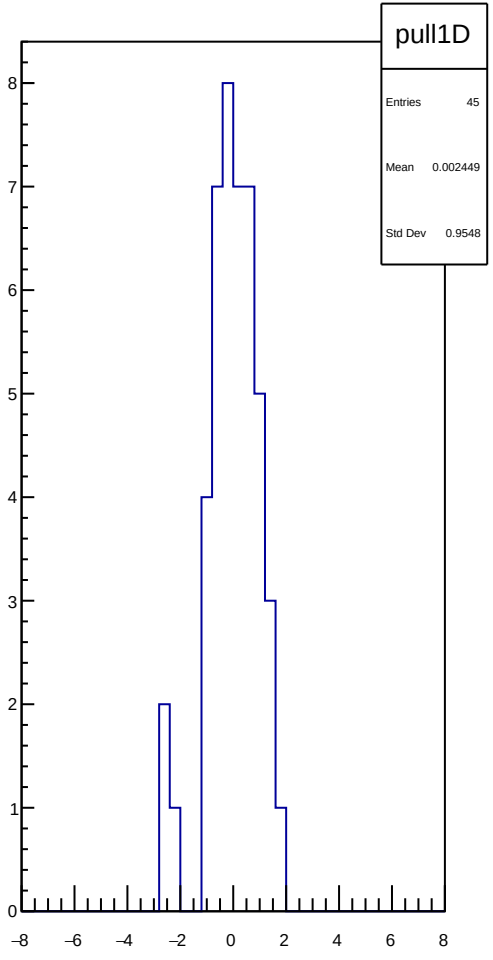
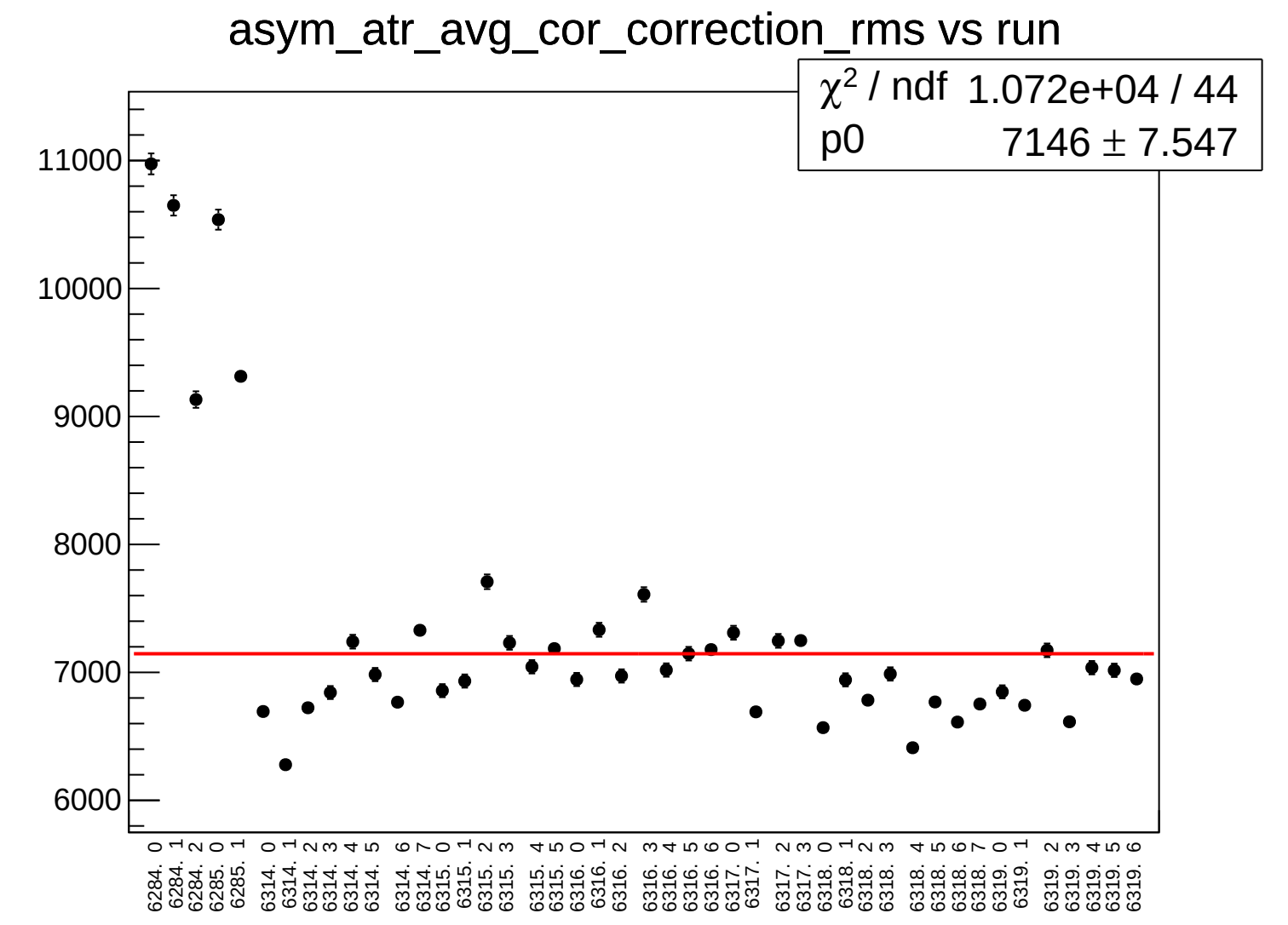
2320
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.02 / 44
p0 −1.022e+04 ± 1.067e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1005
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002449
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.072e+04 / 44
p0 7146 ± 7.547
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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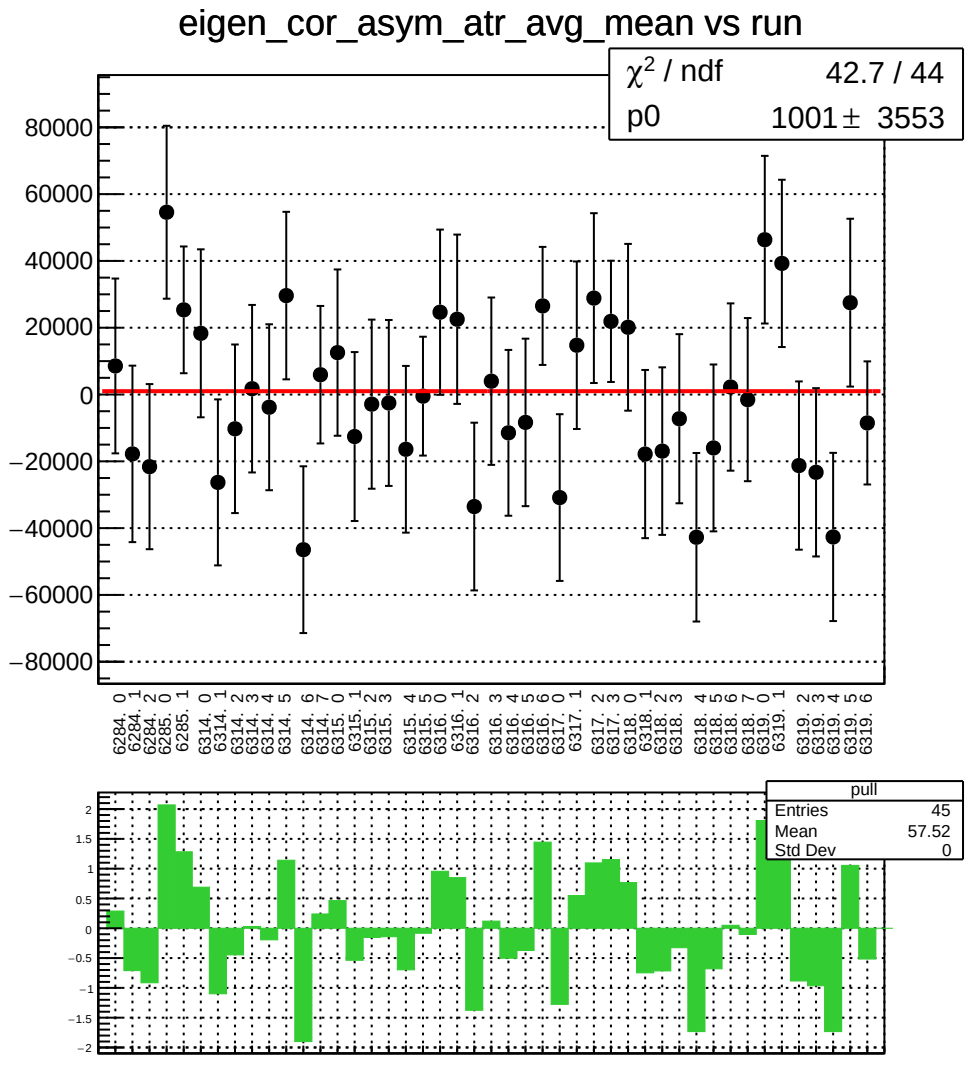
6319. 6


eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 42.7 / 44
p0 1001 ± 3553
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 57.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02734
Std Dev 0.9737
9
8
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6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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6
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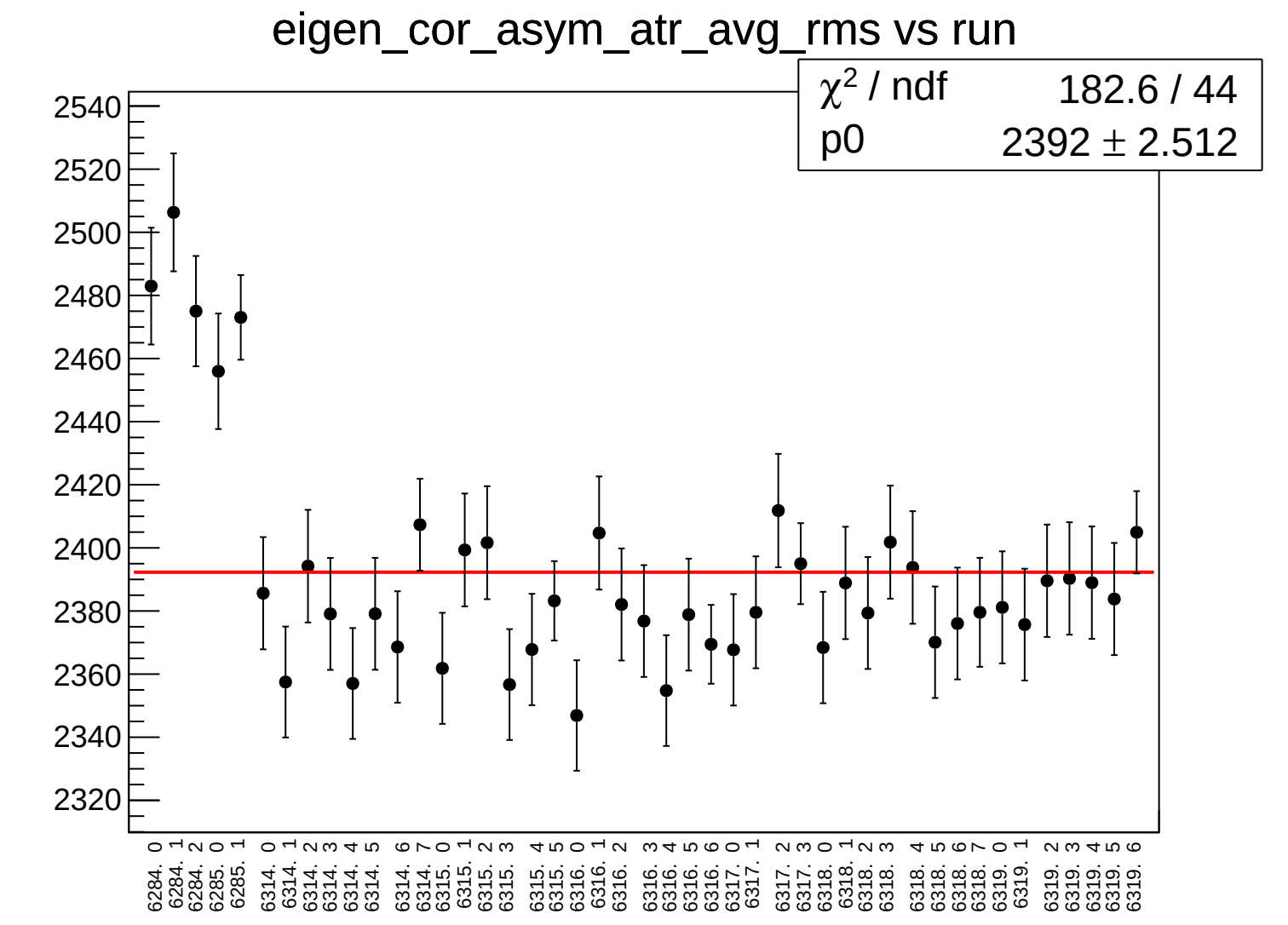
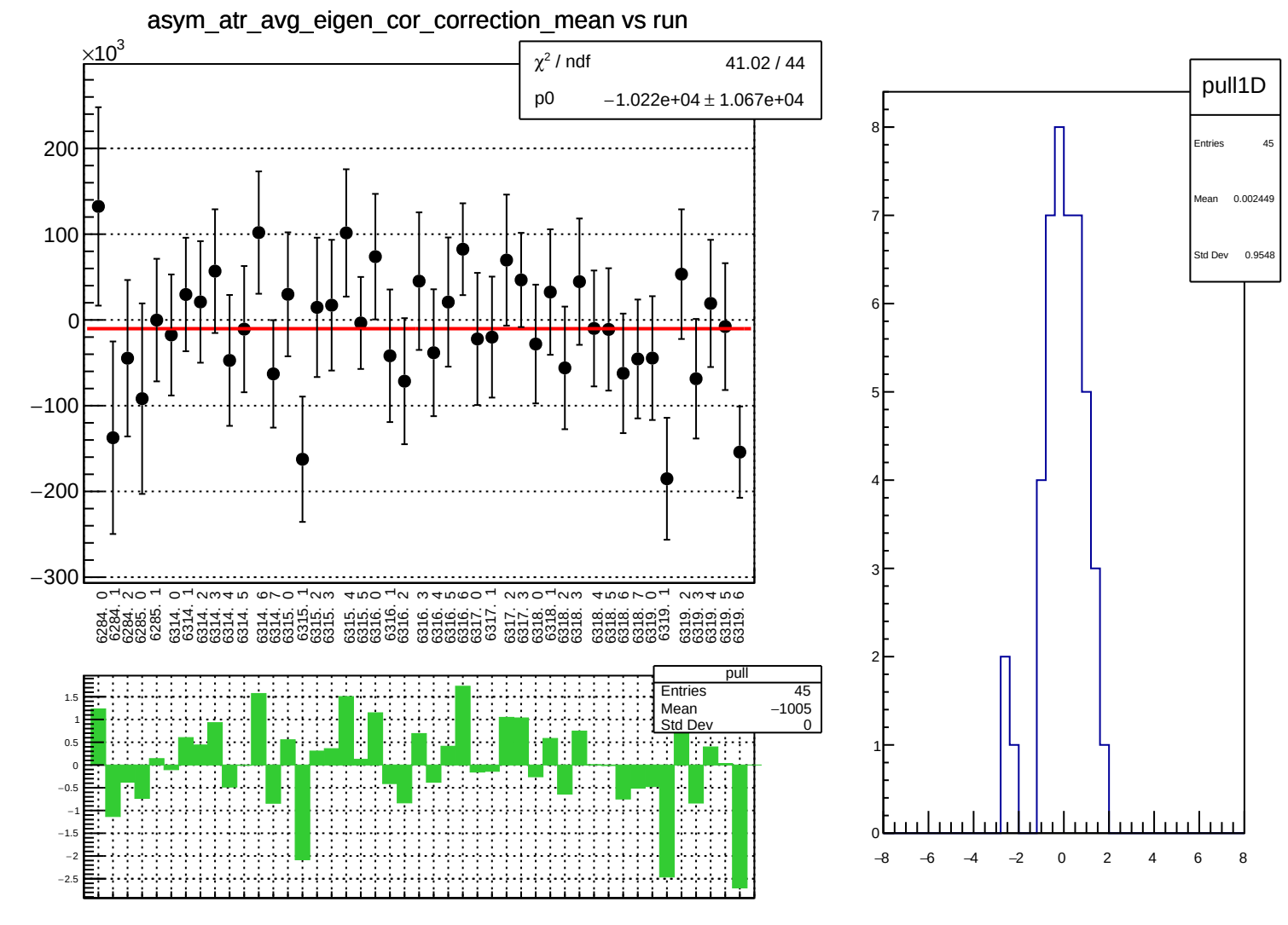
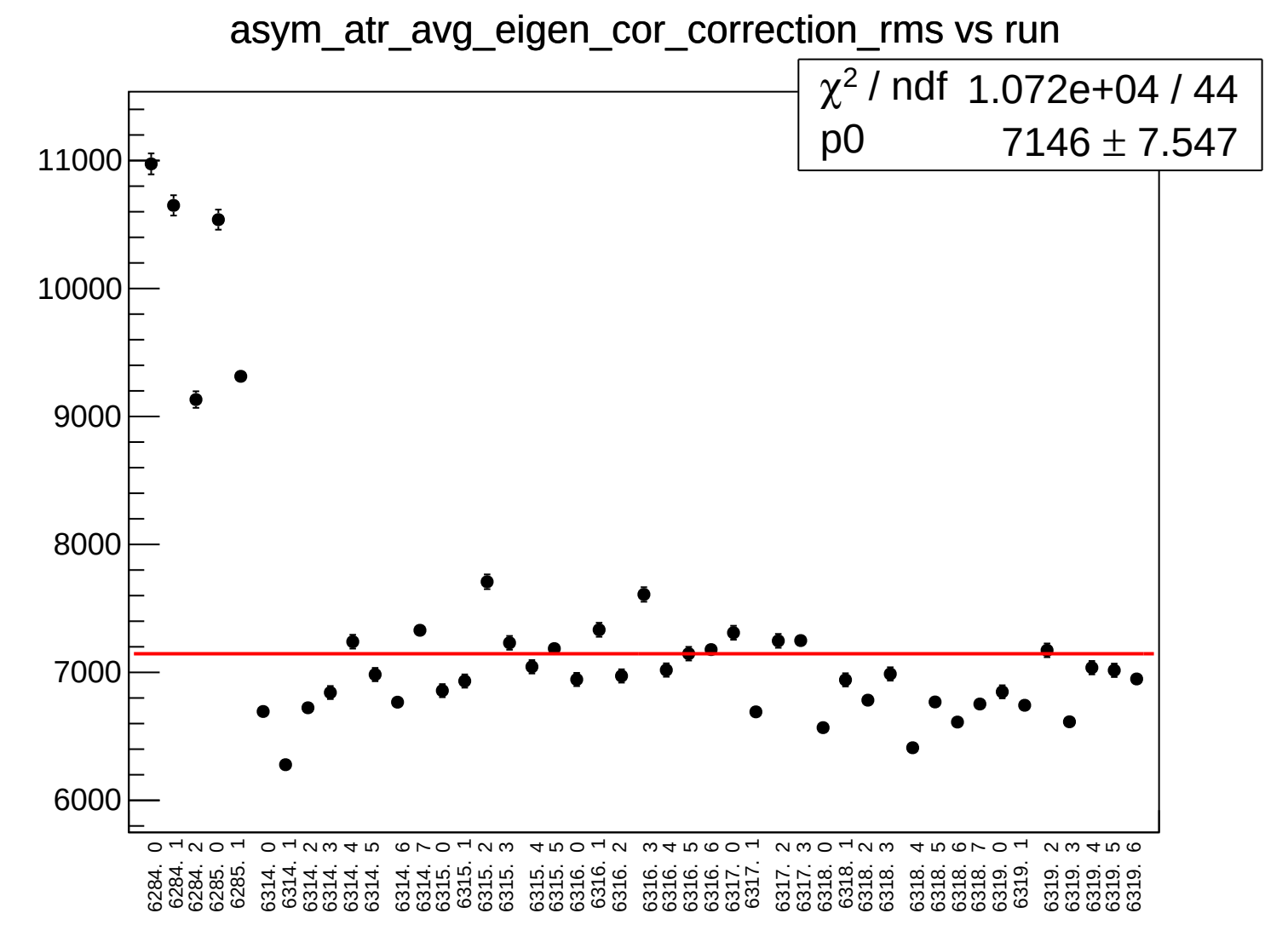

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 182.6 / 44
p0 2392 ± 2.512
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.02 / 44
p0 −1.022e+04 ± 1.067e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1005
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.002449
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.072e+04 / 44
p0 7146 ± 7.547
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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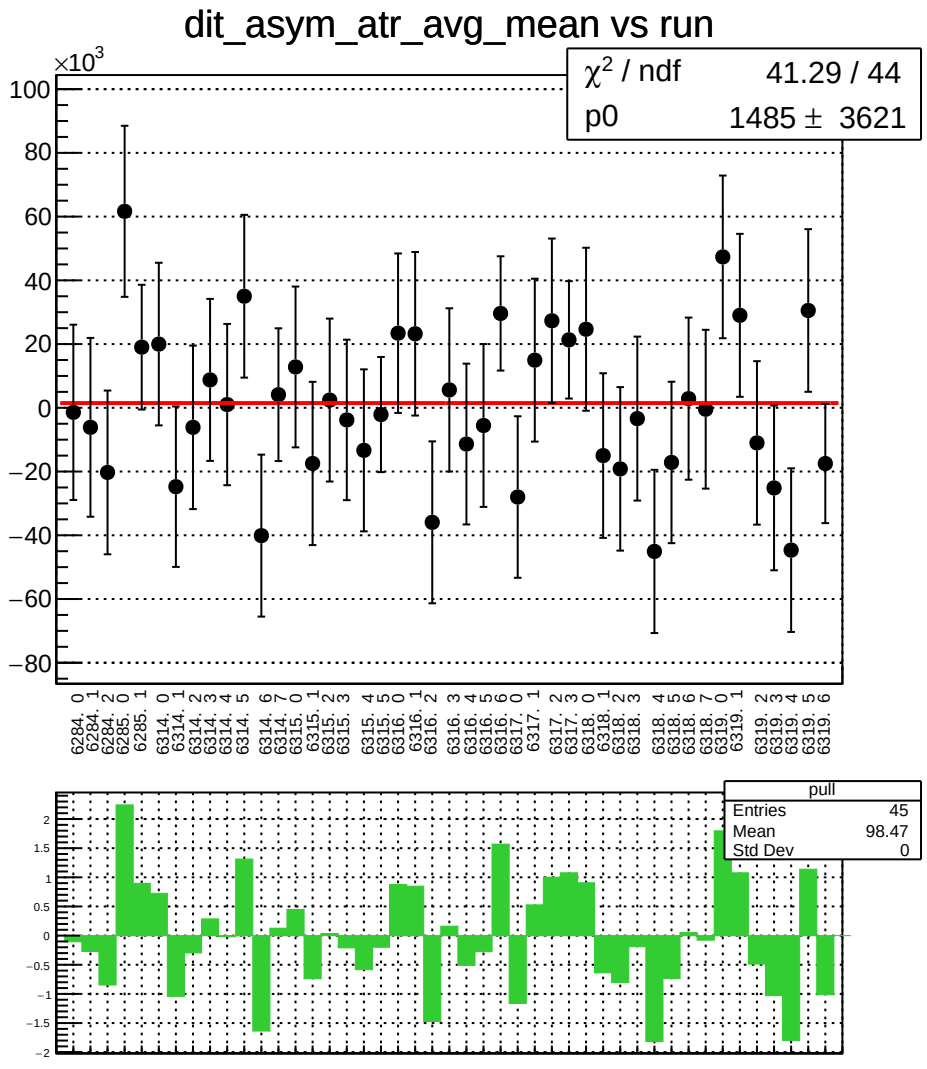
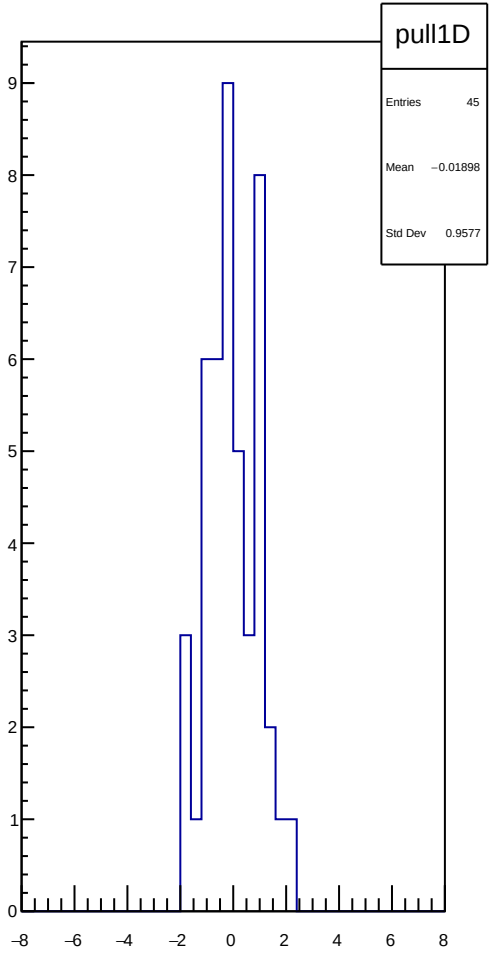
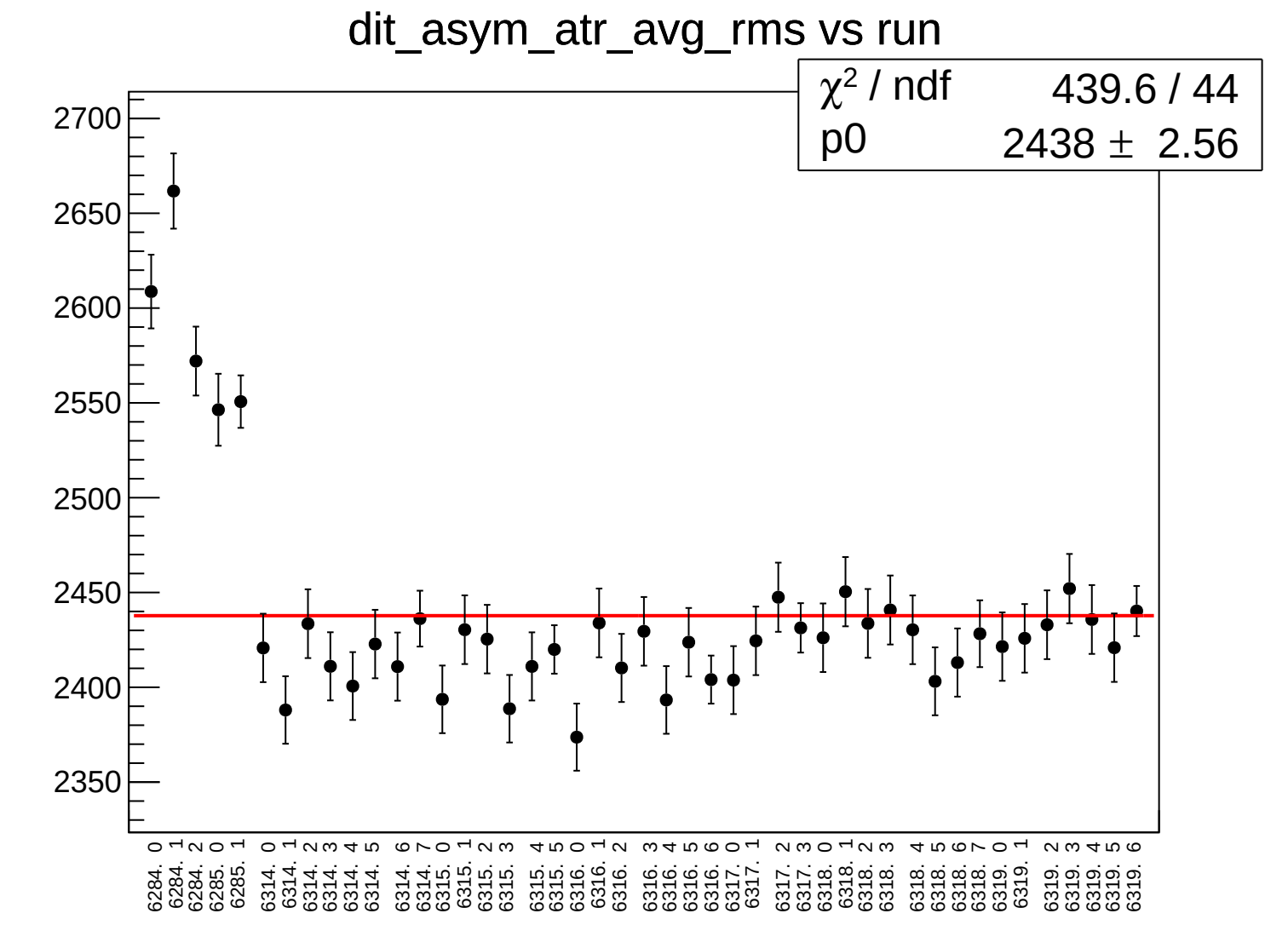
6319. 5
6319. 6


dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.29 / 44
p0 1485 ± 3621
pull
Entries 45
Mean 98.47
Std Dev 0


pull1D
Entries 45
Mean −0.01898
Std Dev 0.9577


dit_asym_atr_avg_rms vs run
χ² / ndf 439.6 / 44
p0 2438 ± 2.56
2700
2650
2600
2550
2500
2450
2400
2350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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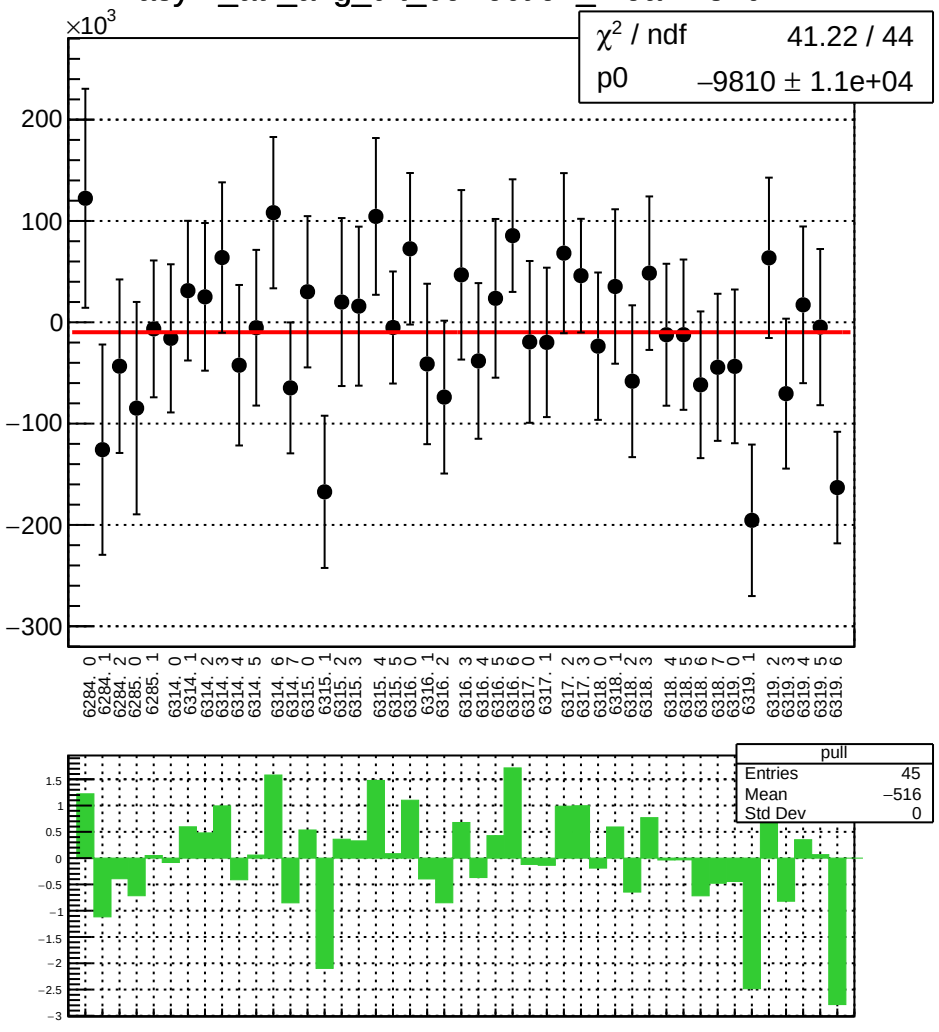
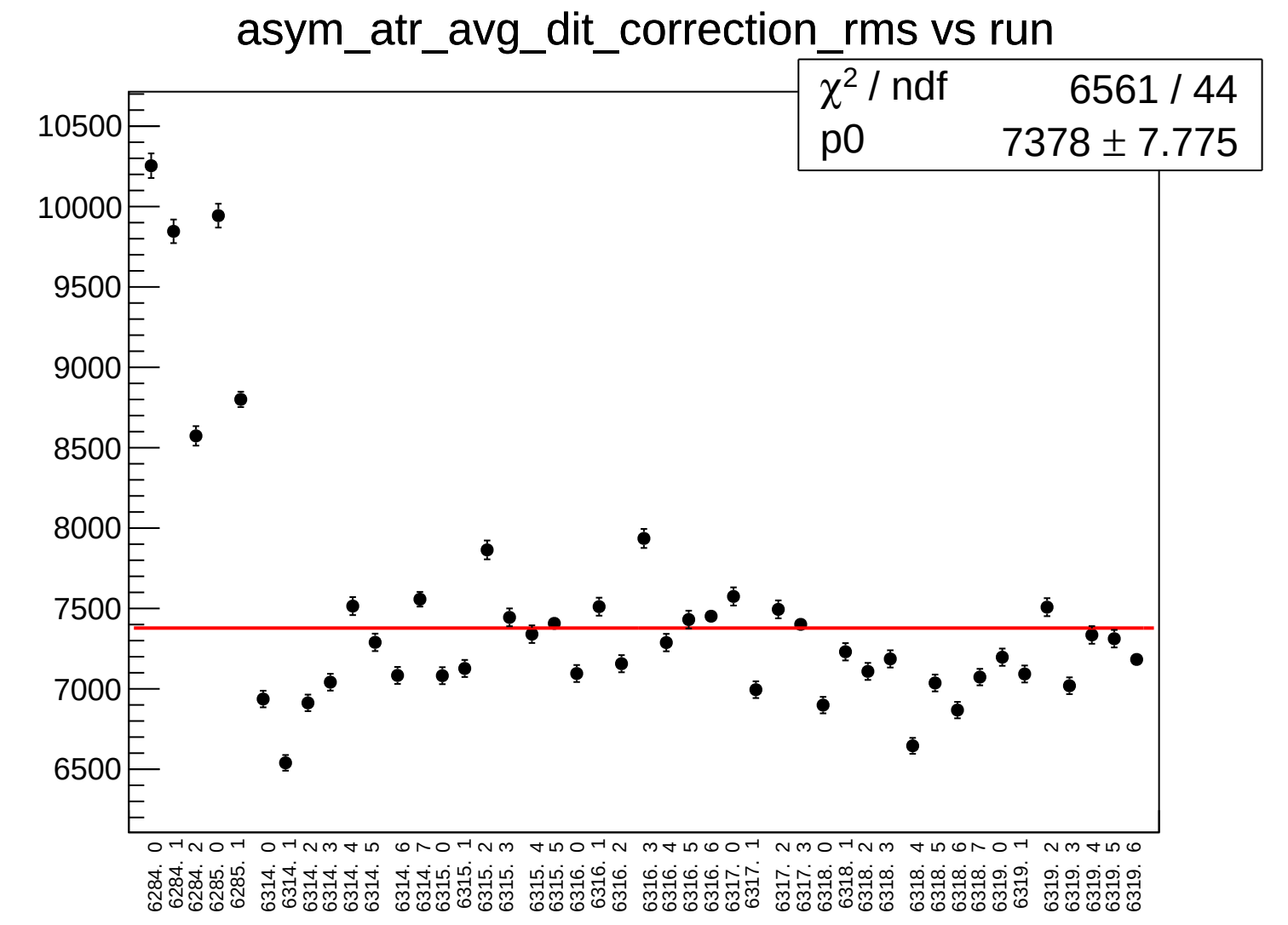
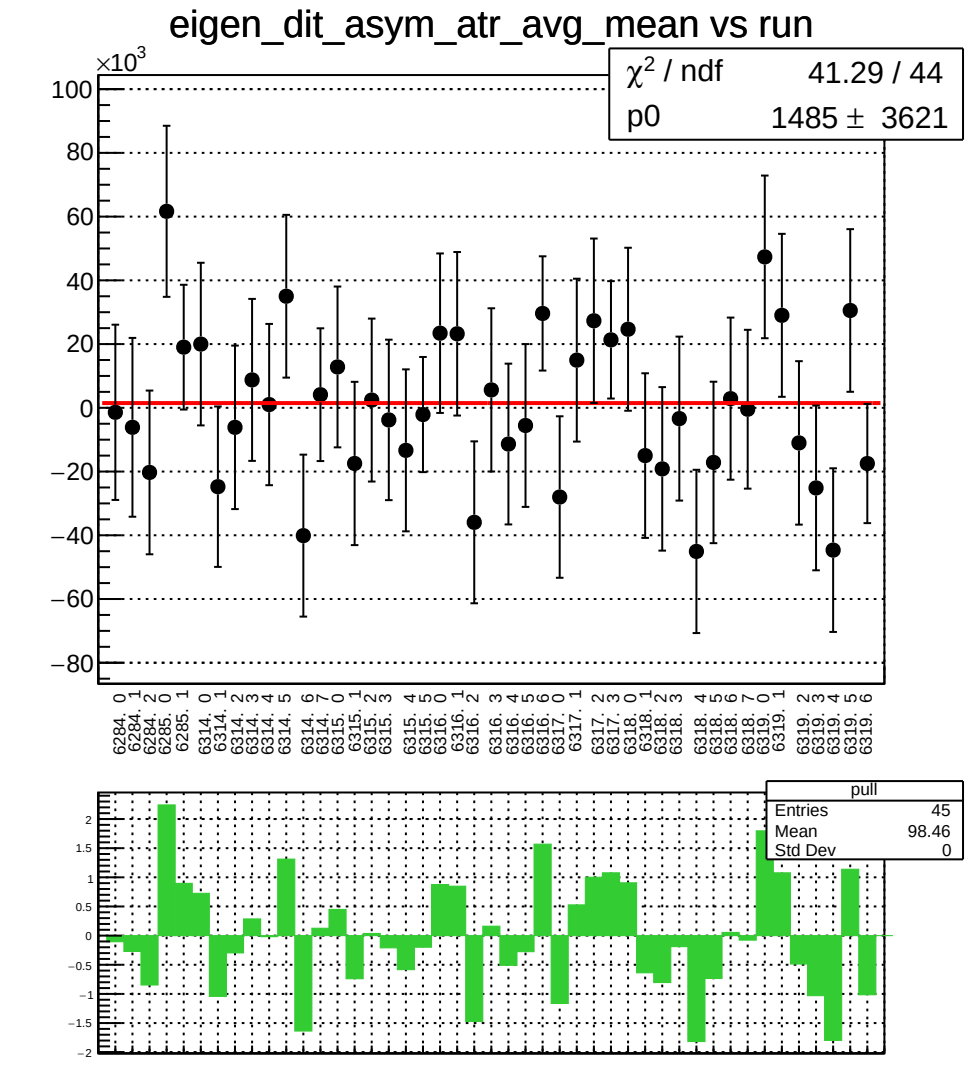
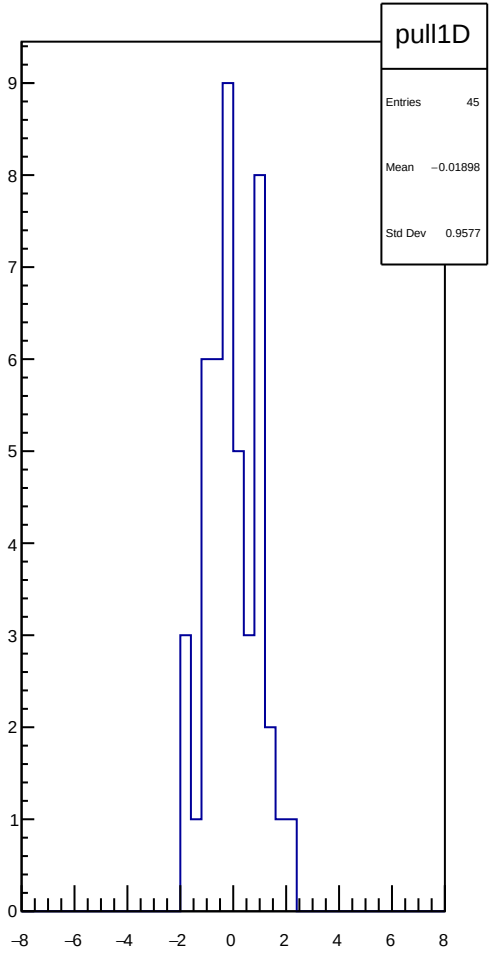
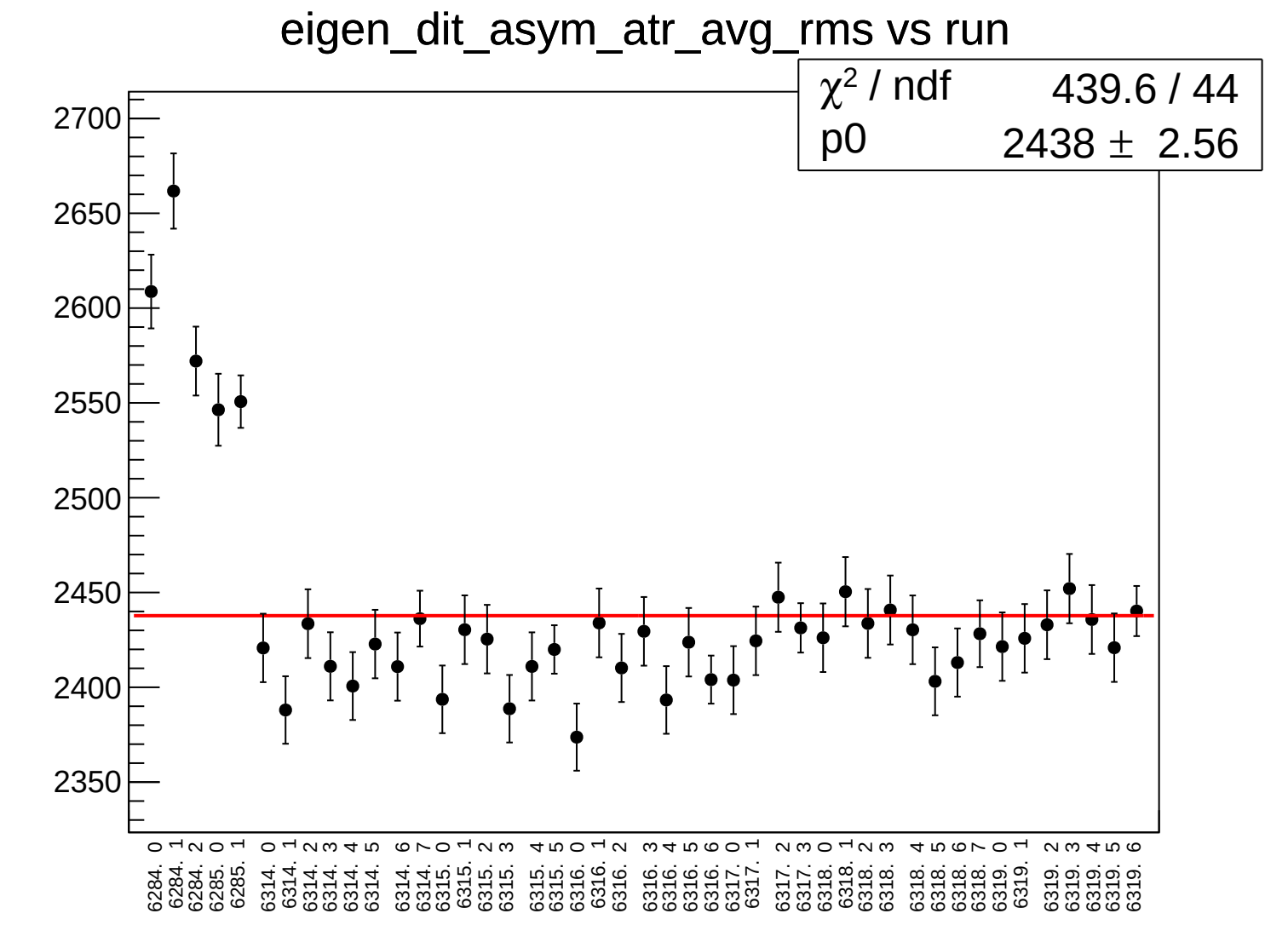
6319. 6


asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −9810 ± 1.1e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −516
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.004712
Std Dev 0.9571
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_dit_correction_rms vs run
χ² / ndf 6561 / 44
p0 7378 ± 7.775
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.29 / 44
p0 1485 ± 3621
pull
Entries 45
Mean 98.46
Std Dev 0


pull1D
Entries 45
Mean −0.01898
Std Dev 0.9577


eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 439.6 / 44
p0 2438 ± 2.56
2700
2650
2600
2550
2500
2450
2400
2350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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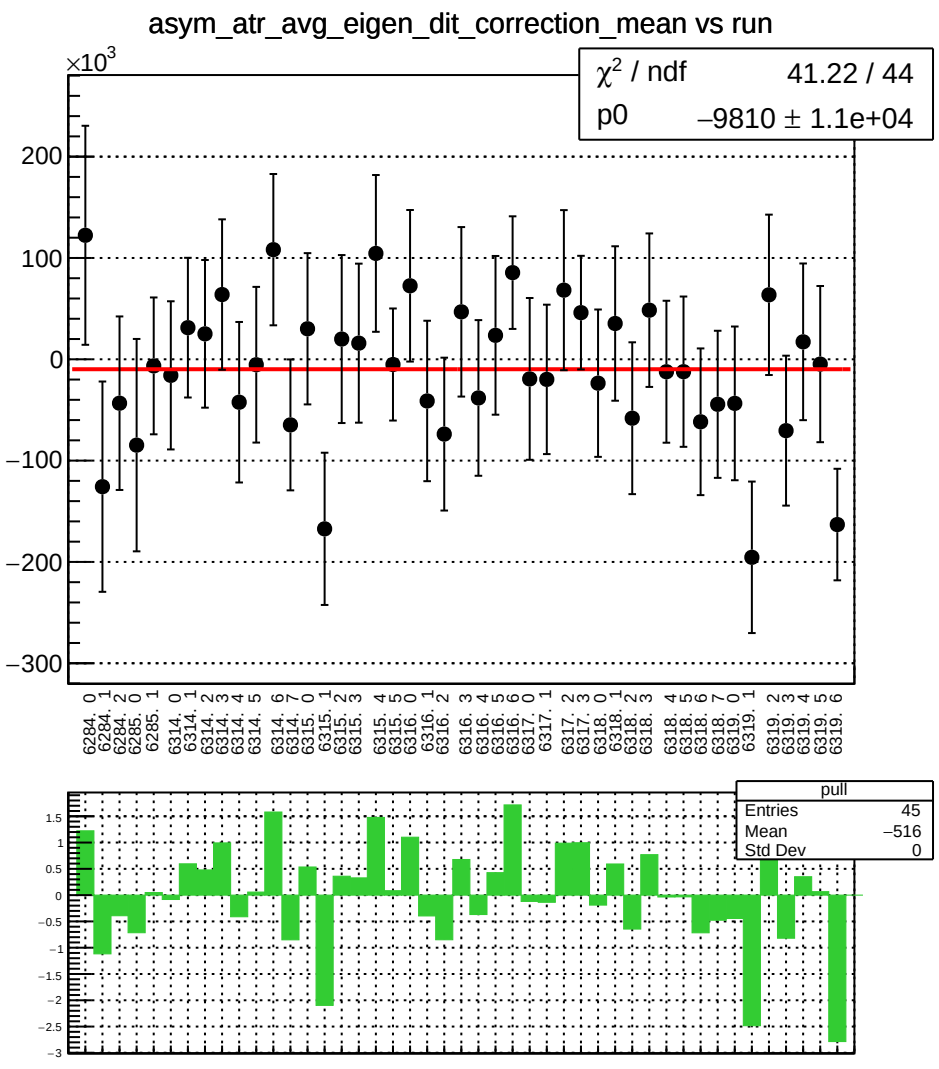
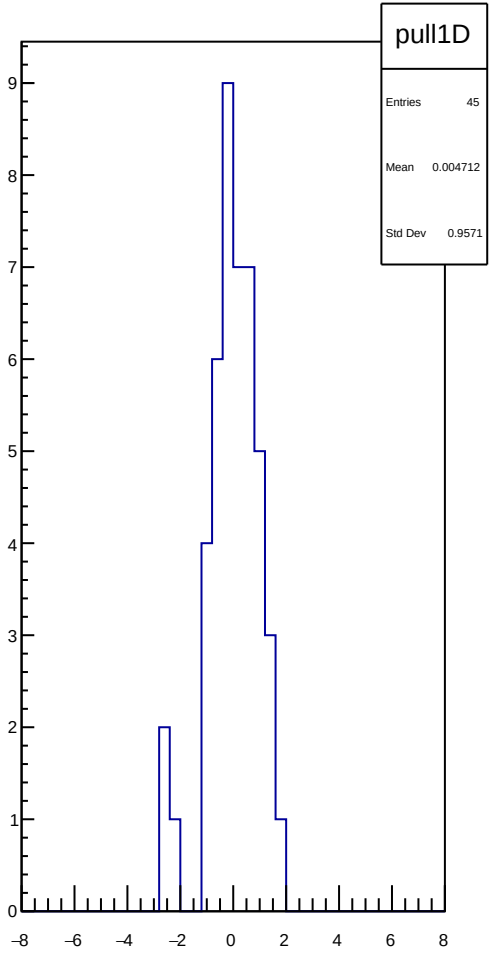
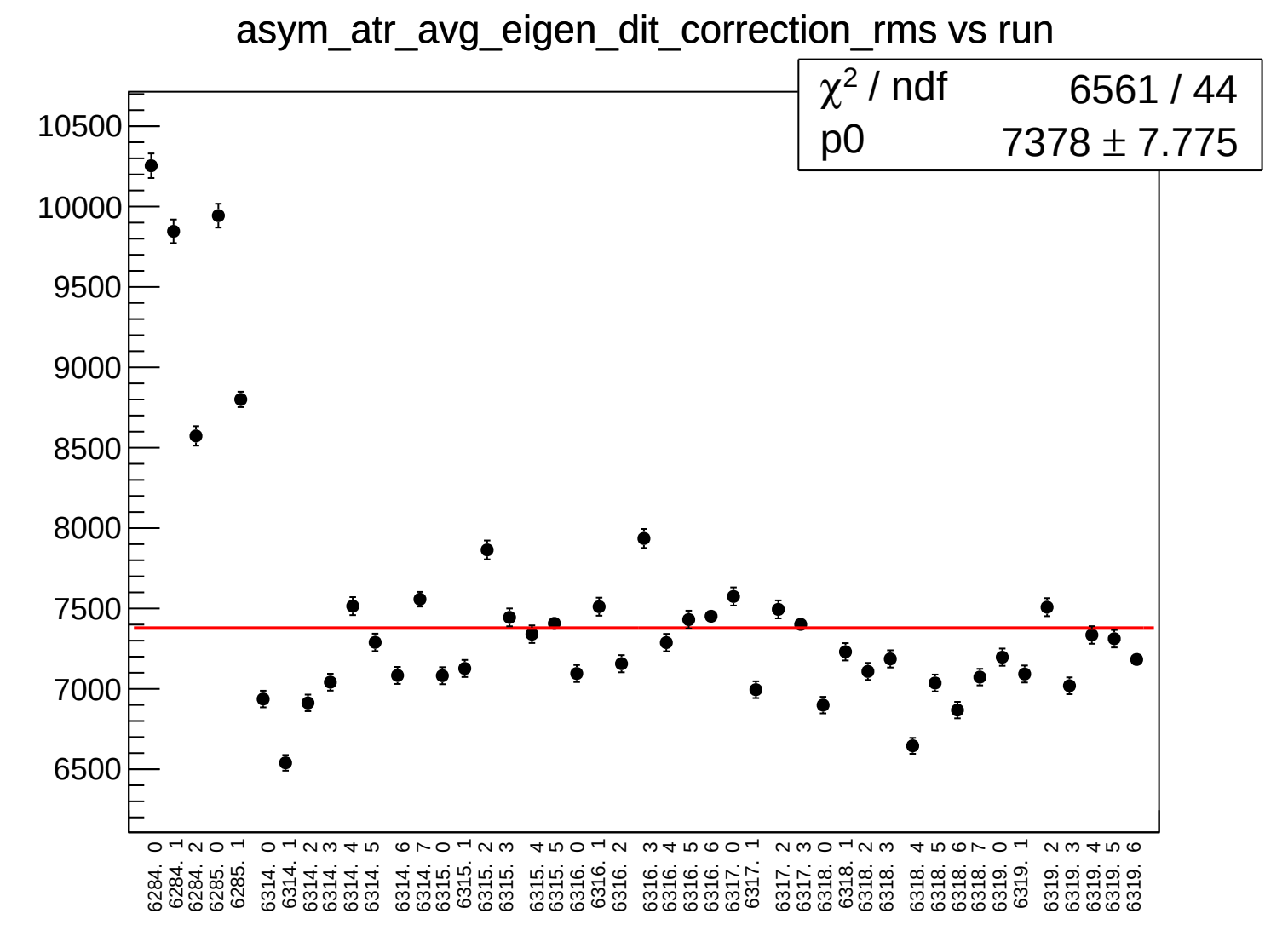
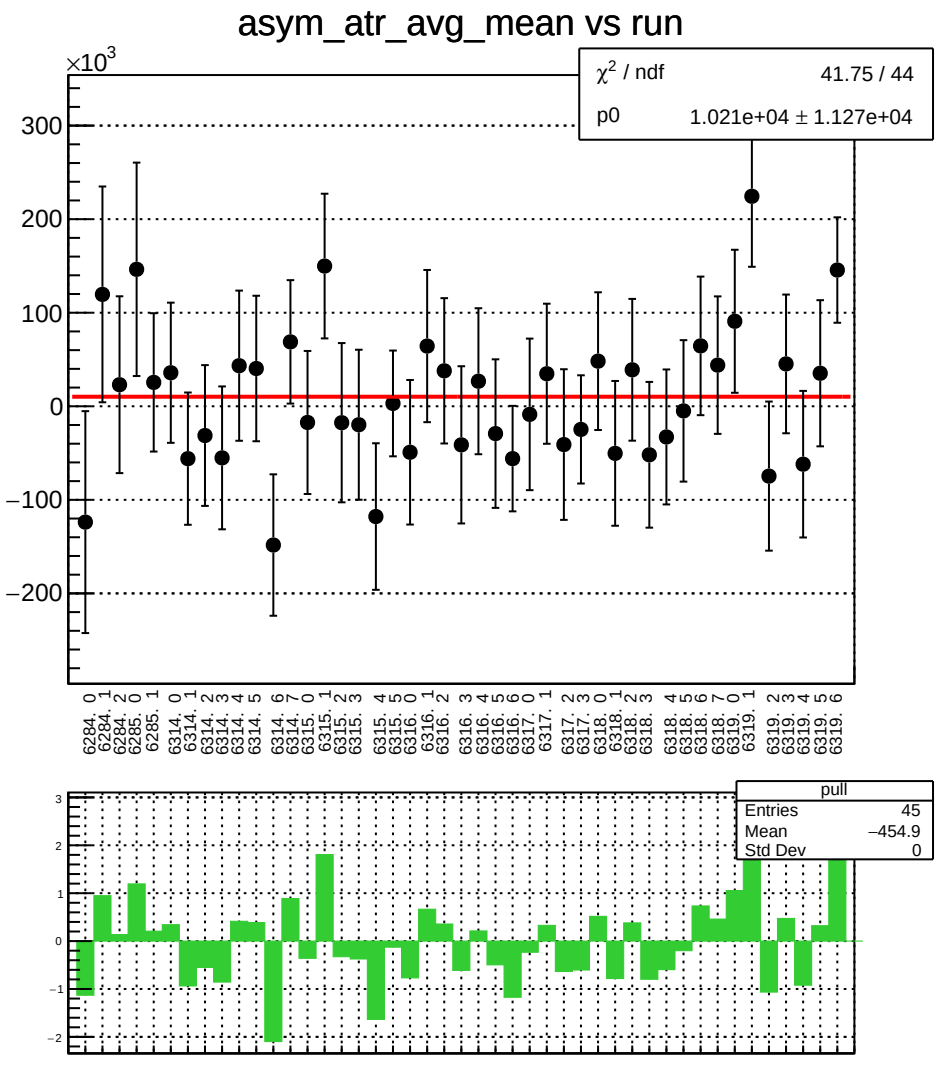
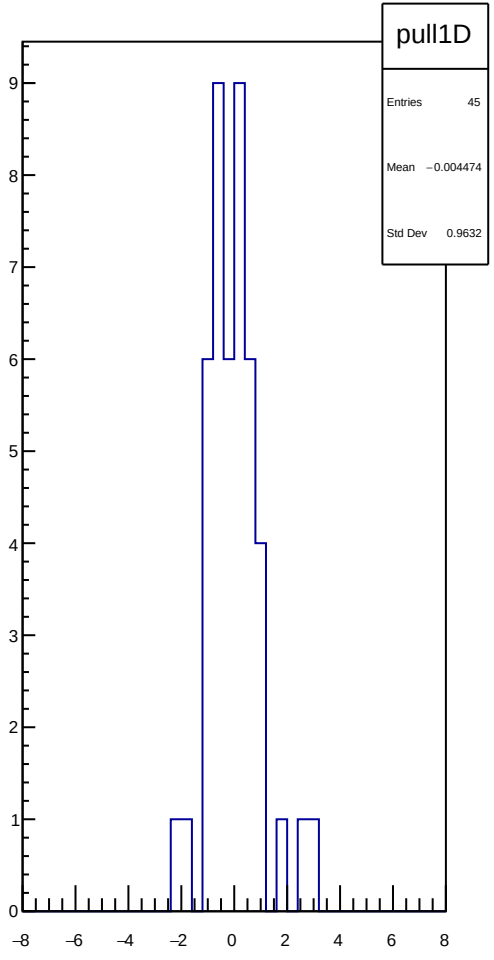
6319. 5
6319. 6

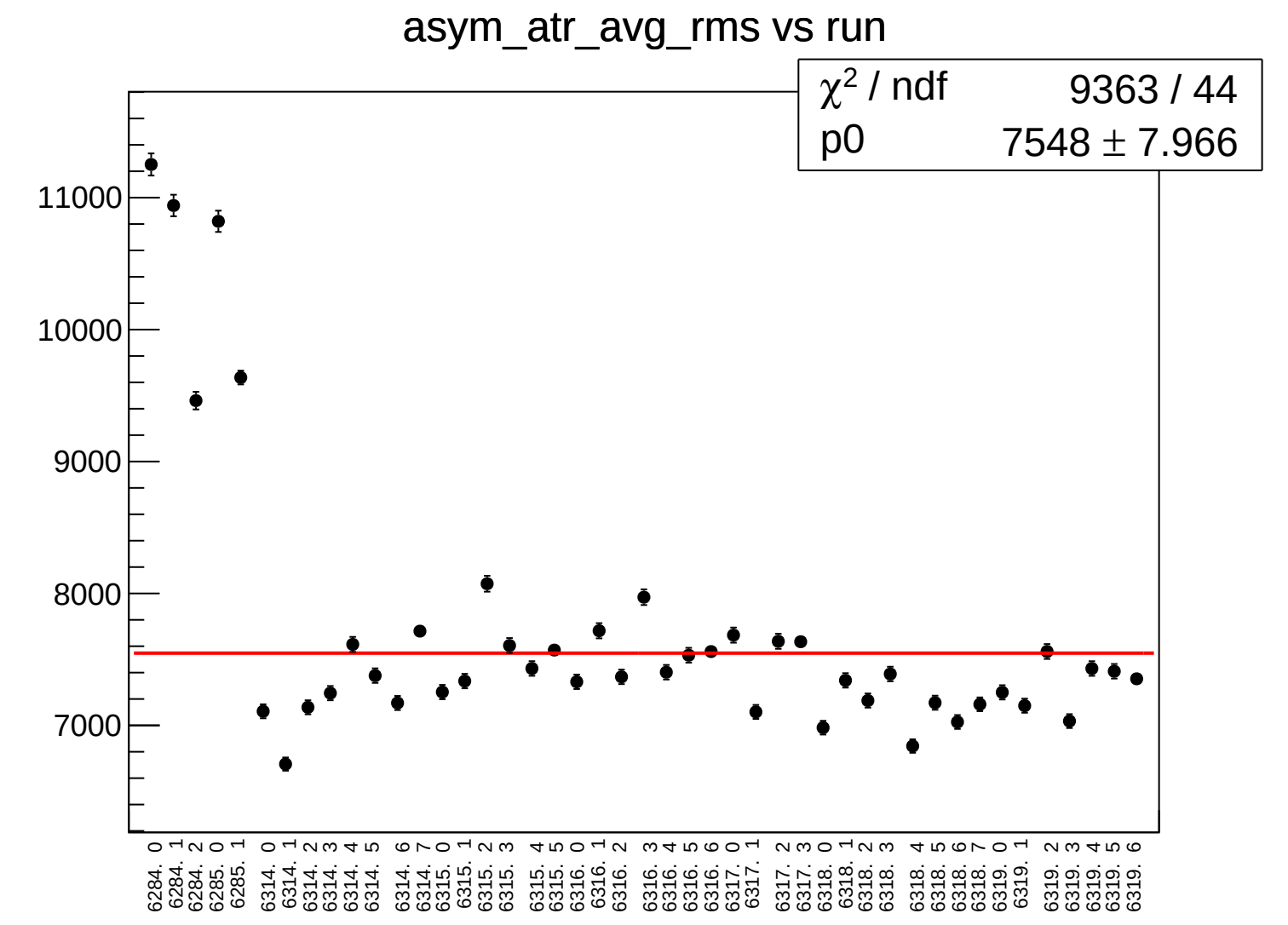

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −9810 ± 1.1e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −516
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean 0.004712
Std Dev 0.9571
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 6561 / 44
p0 7378 ± 7.775
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.75 / 44
p0 1.021e+04 ± 1.127e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −454.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.004474
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_rms vs run
χ^2 / ndf 9363 / 44
p0 7548 ± 7.966
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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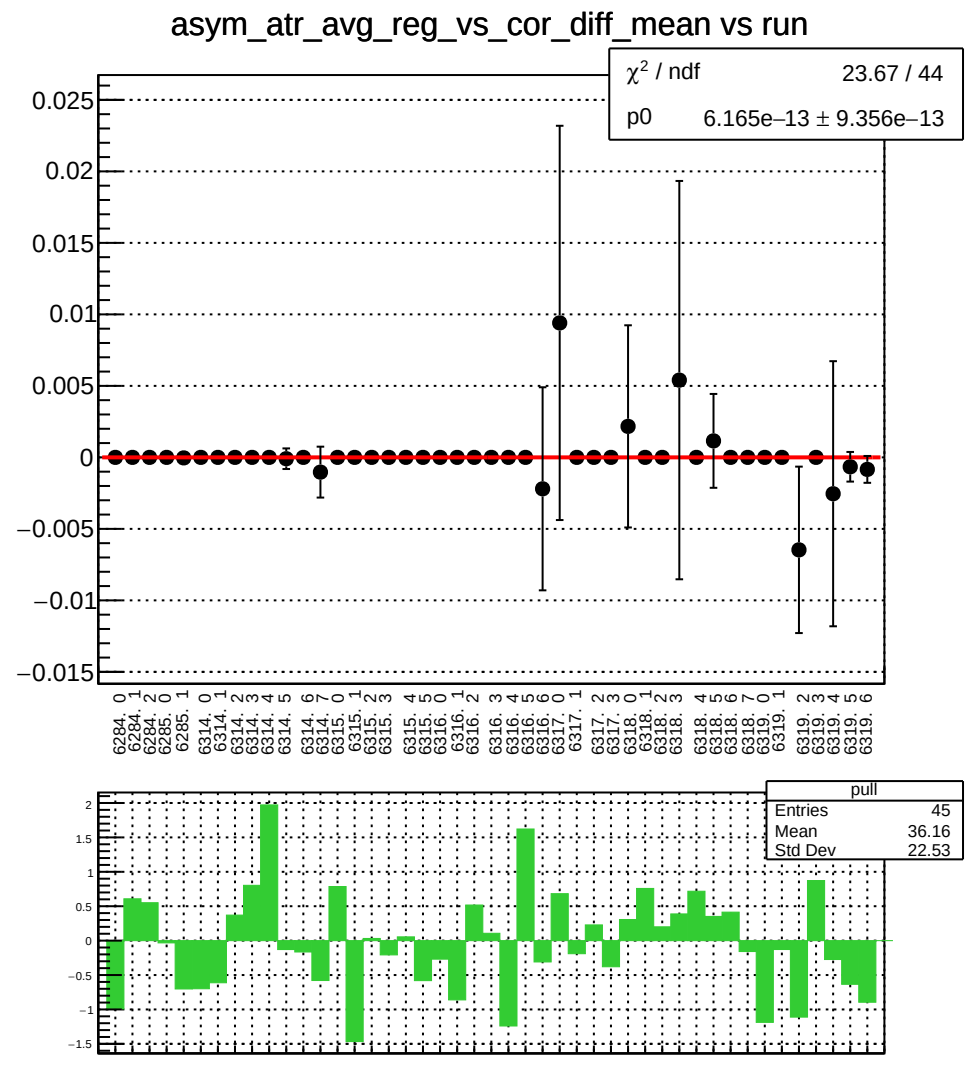
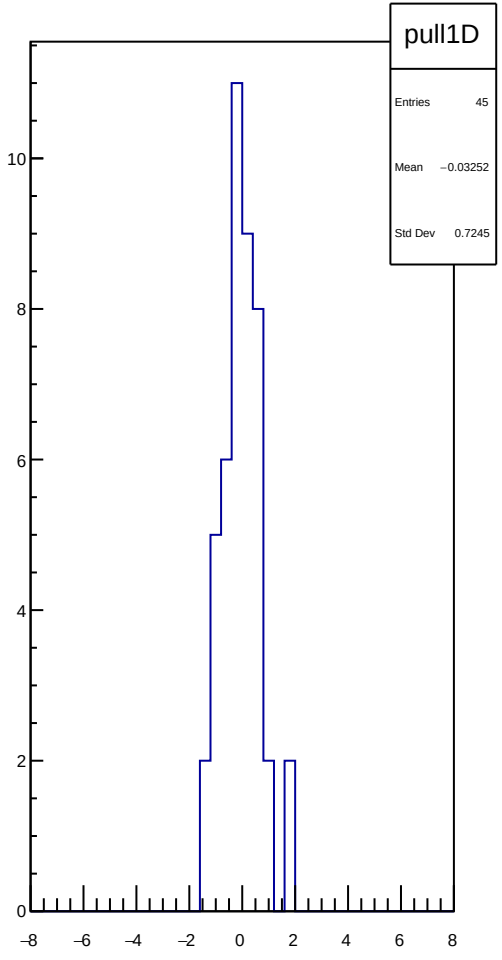
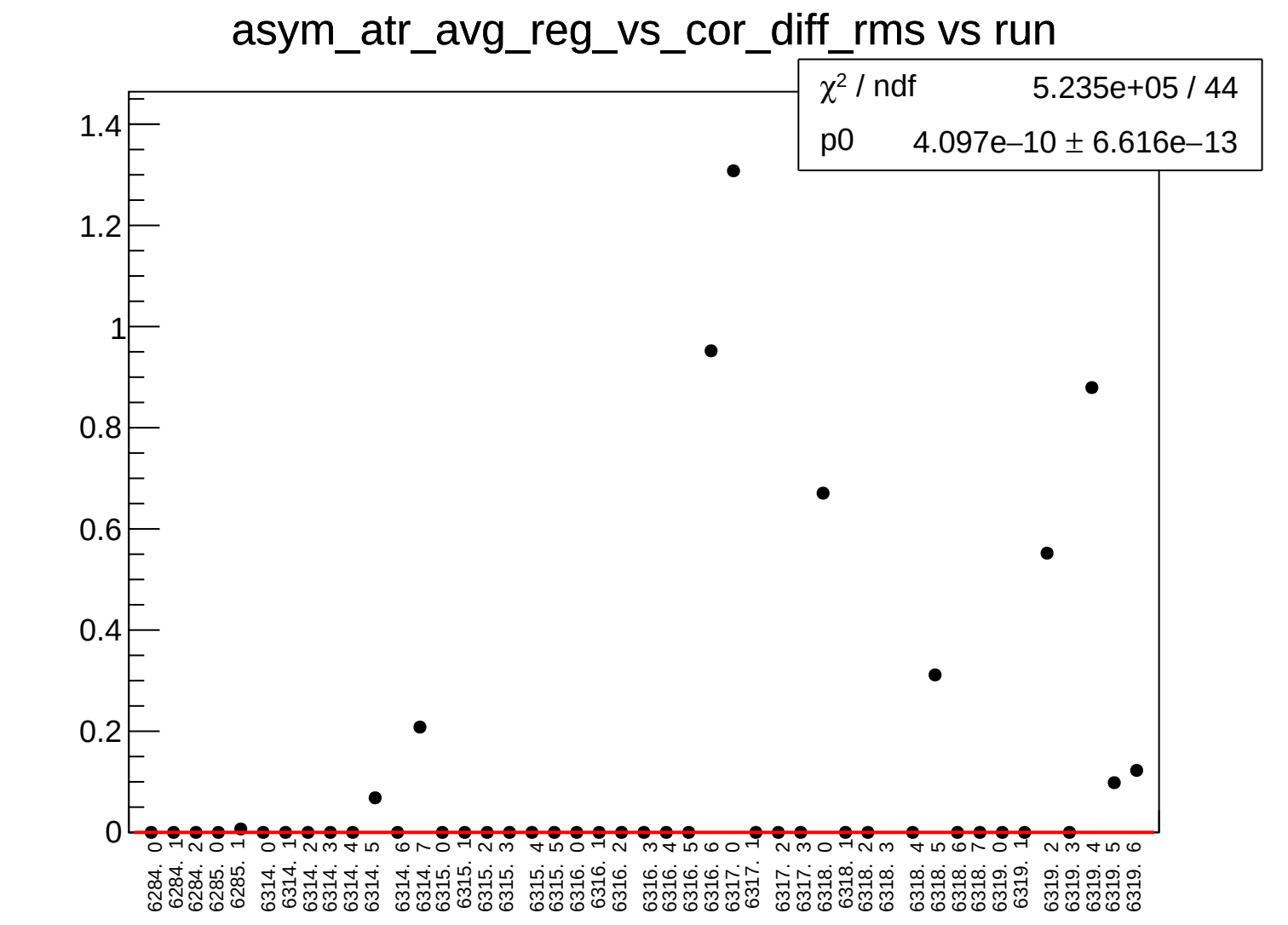
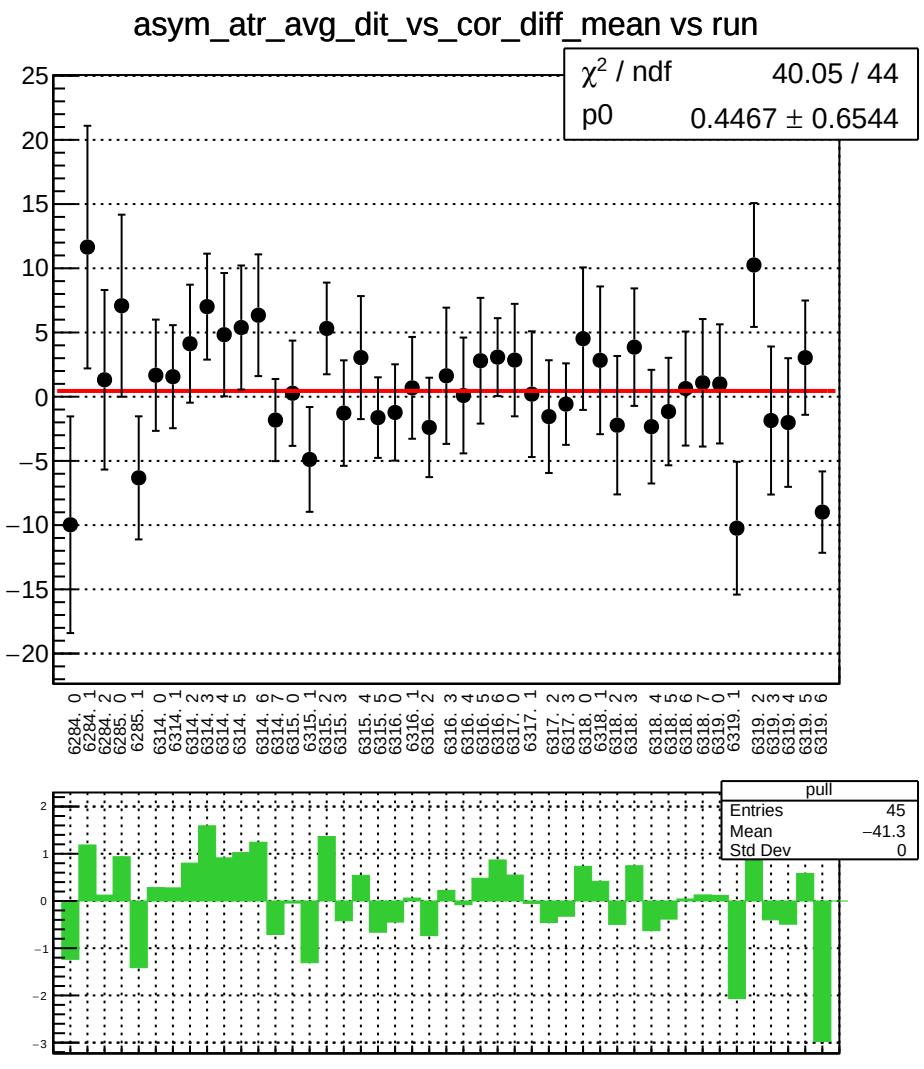
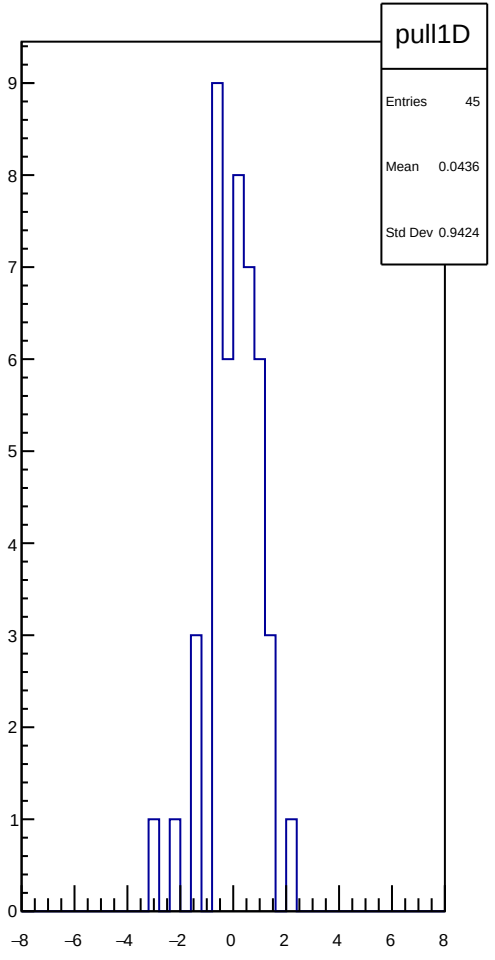
6319. 5
6319. 6

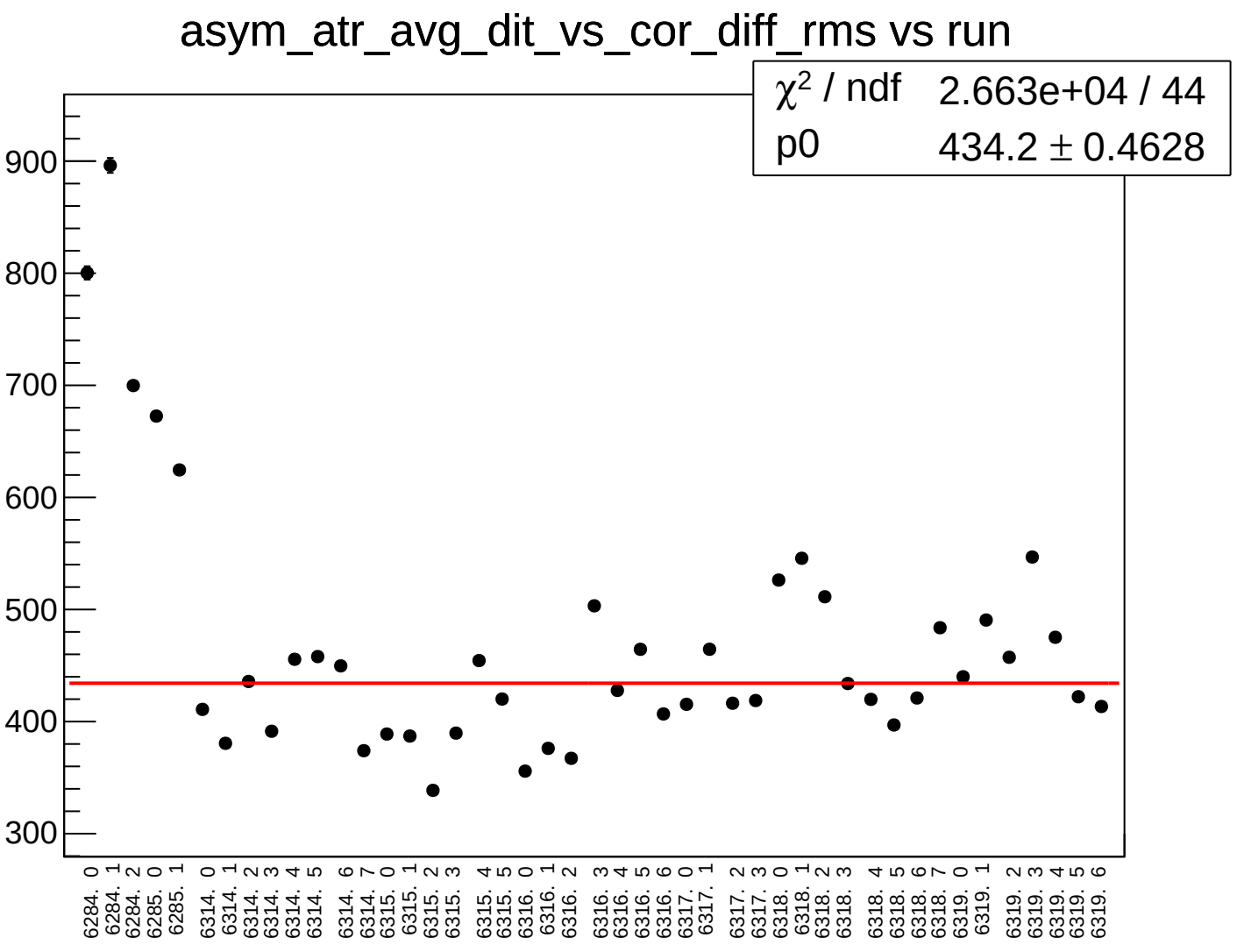

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.67 / 44
p0 6.165e−13 ± 9.356e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 36.16
Std Dev 22.53
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.03252
Std Dev 0.7245
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.235e+05 / 44
p0 4.097e−10 ± 6.616e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 40.05 / 44
p0 0.4467 ± 0.6544
pull
Entries 45
Mean −41.3
Std Dev 0


pull1D
Entries 45
Mean 0.0436
Std Dev 0.9424


asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.663e+04 / 44
p0 434.2 ± 0.4628
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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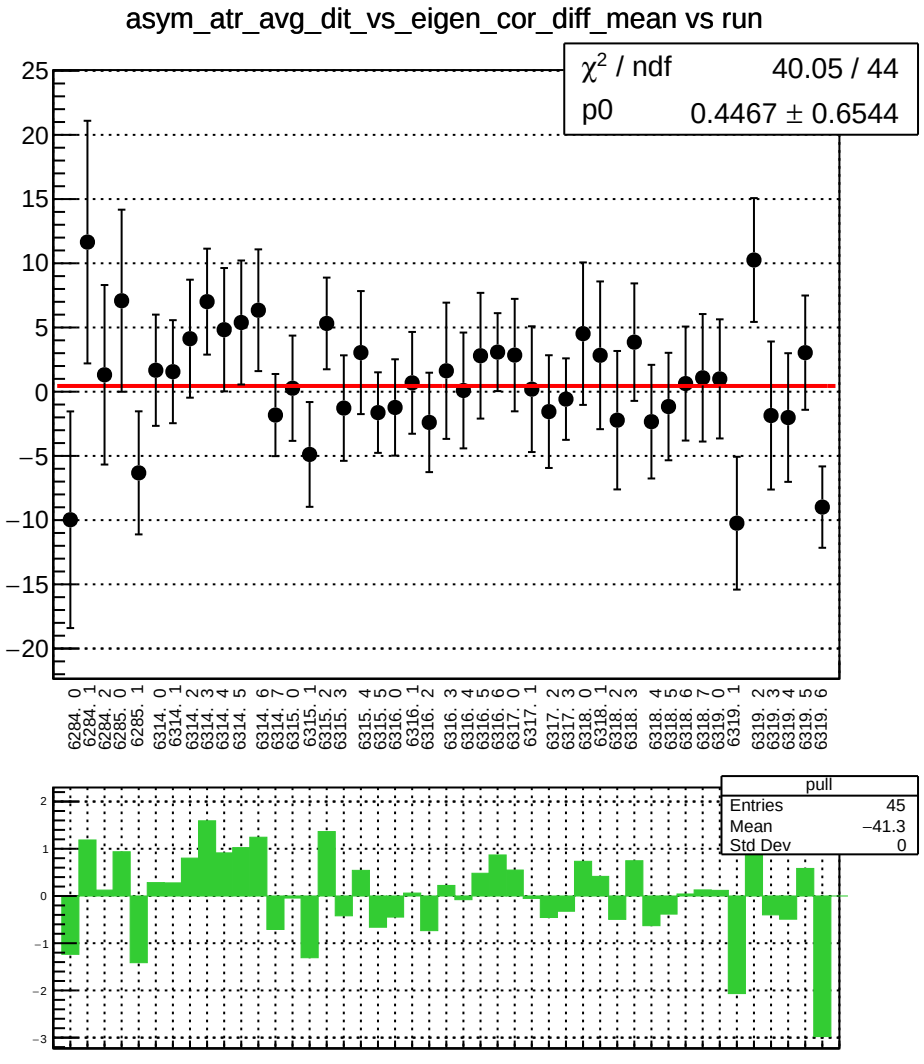
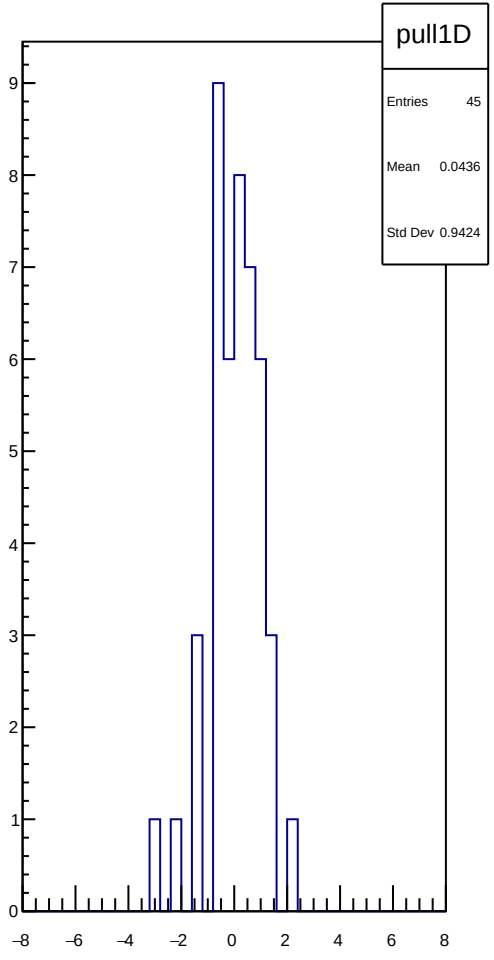
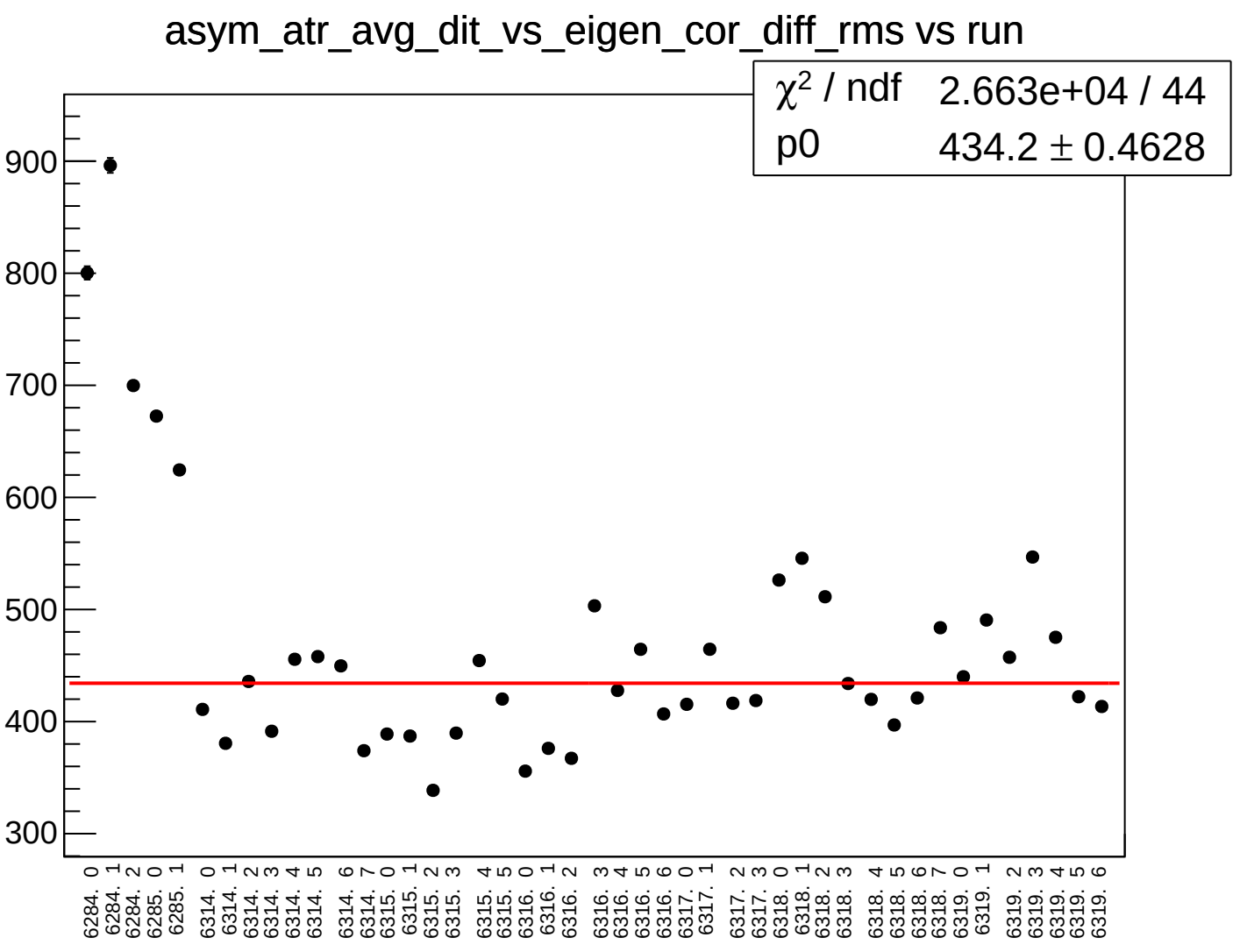
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.05 / 44
p0 0.4467 ± 0.6544
pull
Entries 45
Mean −41.3
Std Dev 0


pull1D
Entries 45
Mean 0.0436
Std Dev 0.9424


asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.663e+04 / 44
p0 434.2 ± 0.4628
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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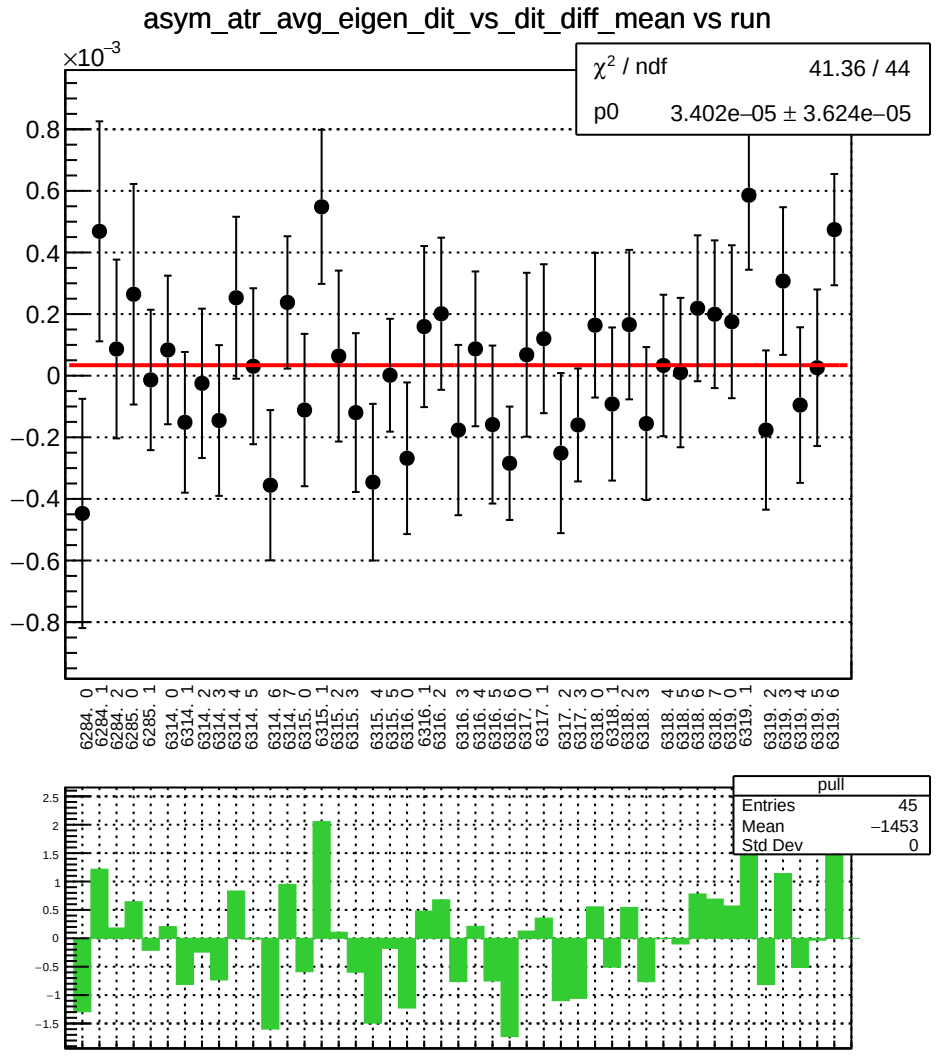
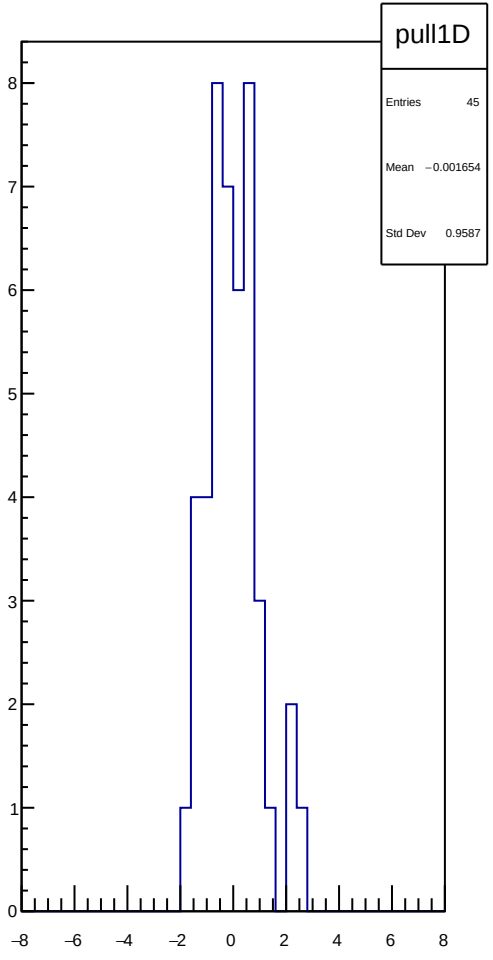
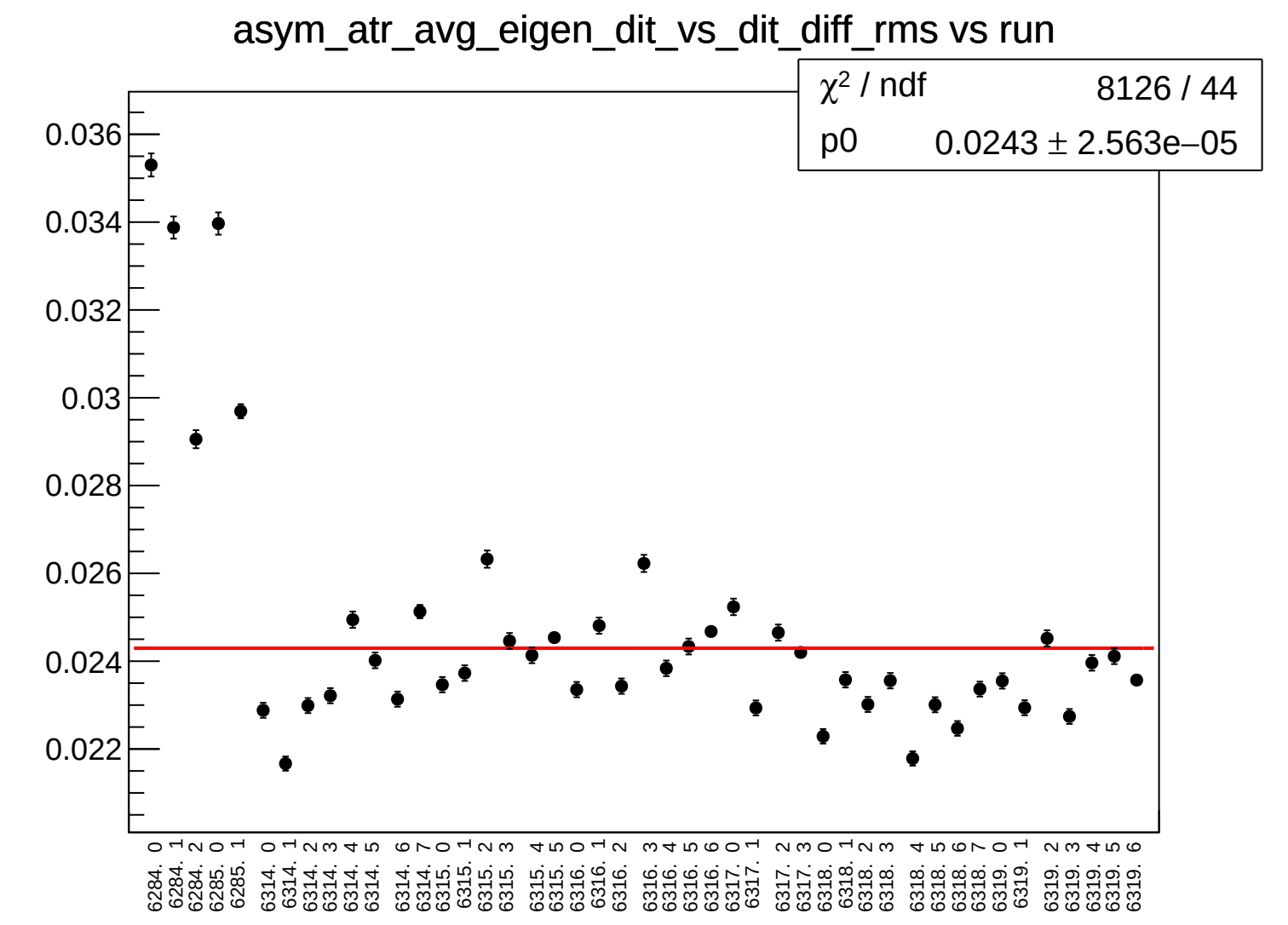
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.36 / 44
p0 3.402e−05 ± 3.624e−05
pull
Entries 45
Mean −1453
Std Dev 0


pull1D
Entries 45
Mean −0.001654
Std Dev 0.9587


asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8126 / 44
p0 0.0243 ± 2.563e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
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6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 2
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6317. 1
6317. 2
6317. 3
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6318. 3
6318. 4
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6319. 0
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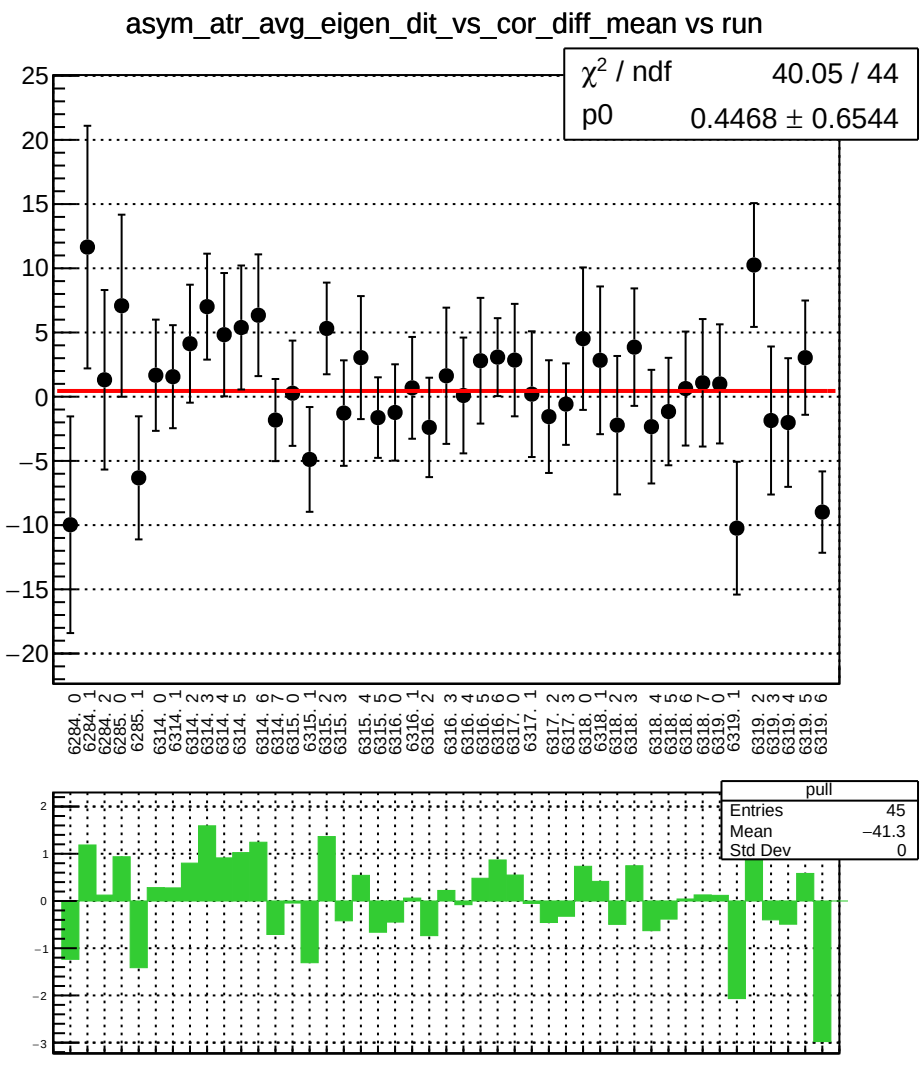
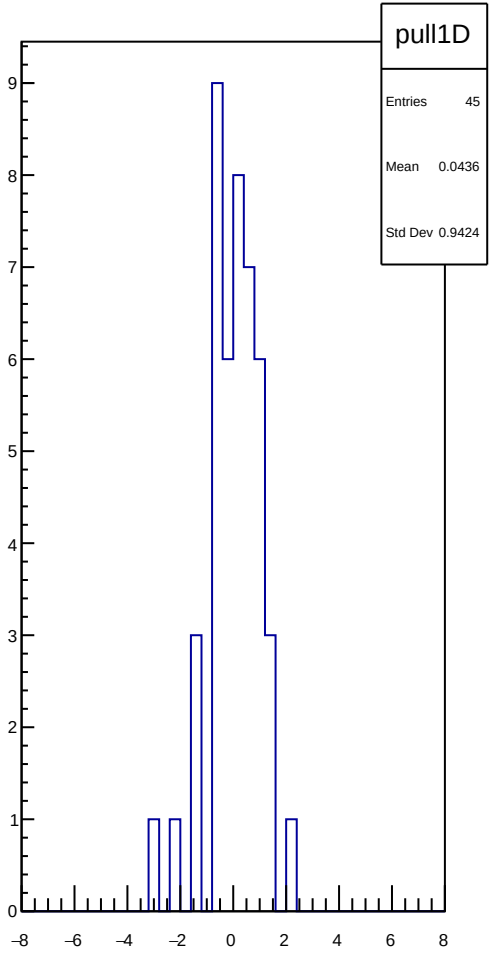
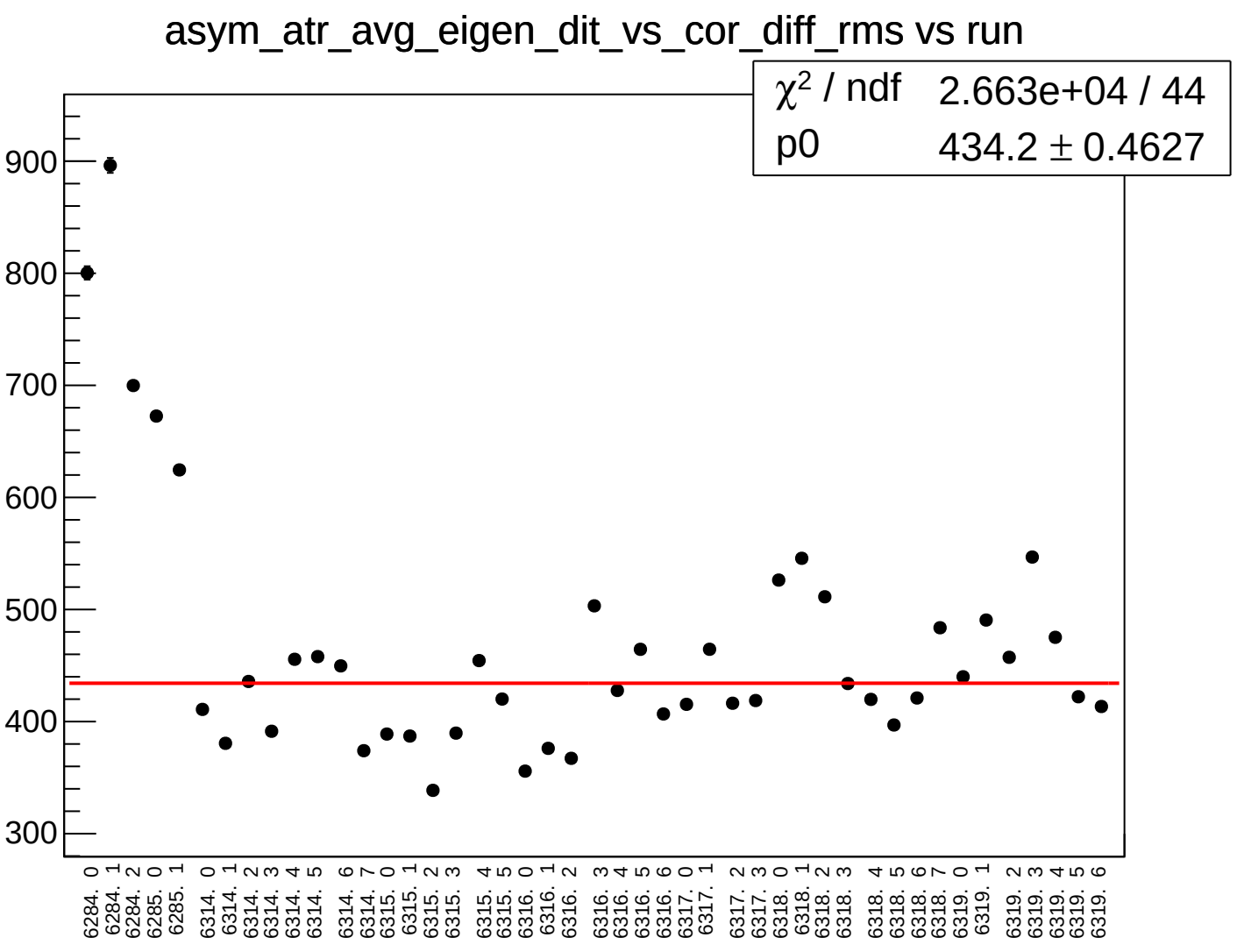
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.05 / 44
p0 0.4468 ± 0.6544
pull
Entries 45
Mean −41.3
Std Dev 0


pull1D
Entries 45
Mean 0.0436
Std Dev 0.9424


asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.663e+04 / 44
p0 434.2 ± 0.4627
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
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6316. 0
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6318. 6
6318. 7
6319. 0
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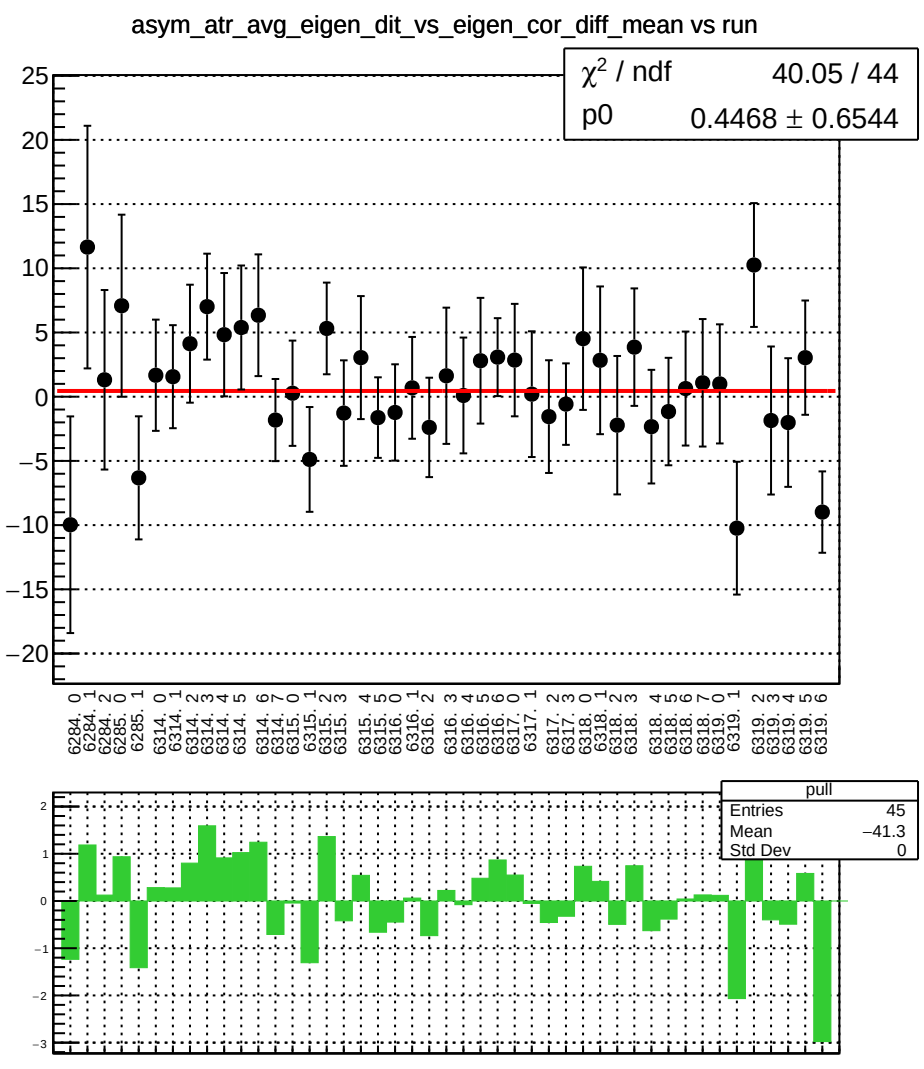
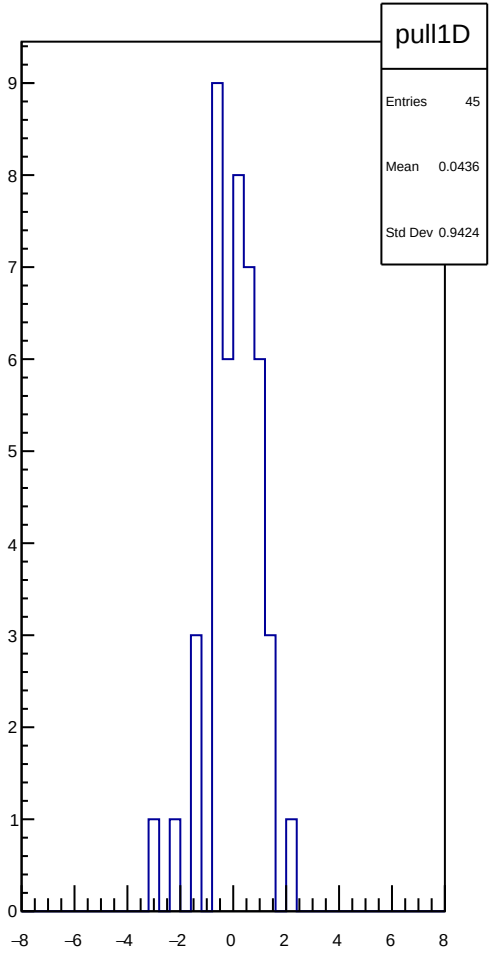
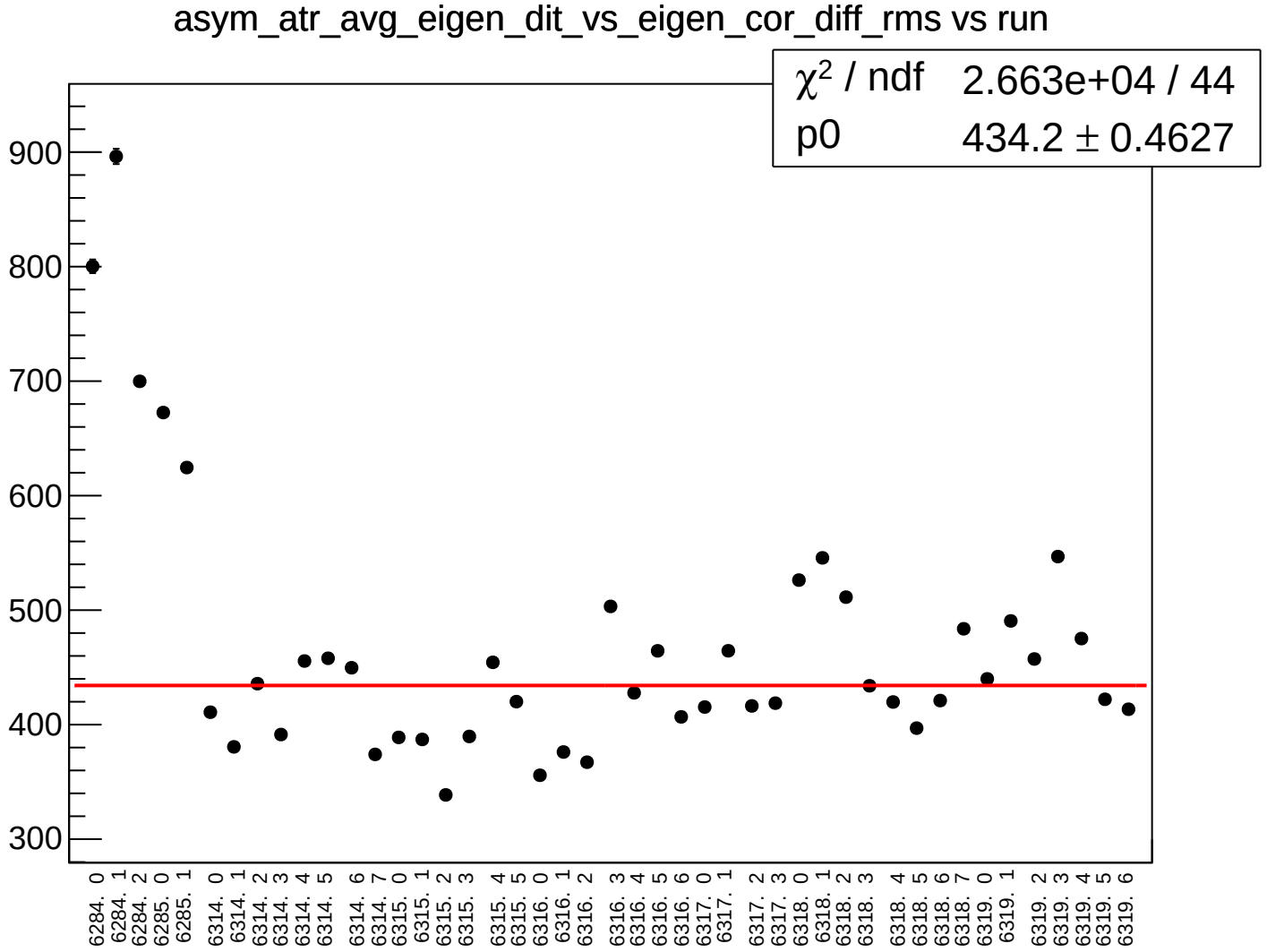
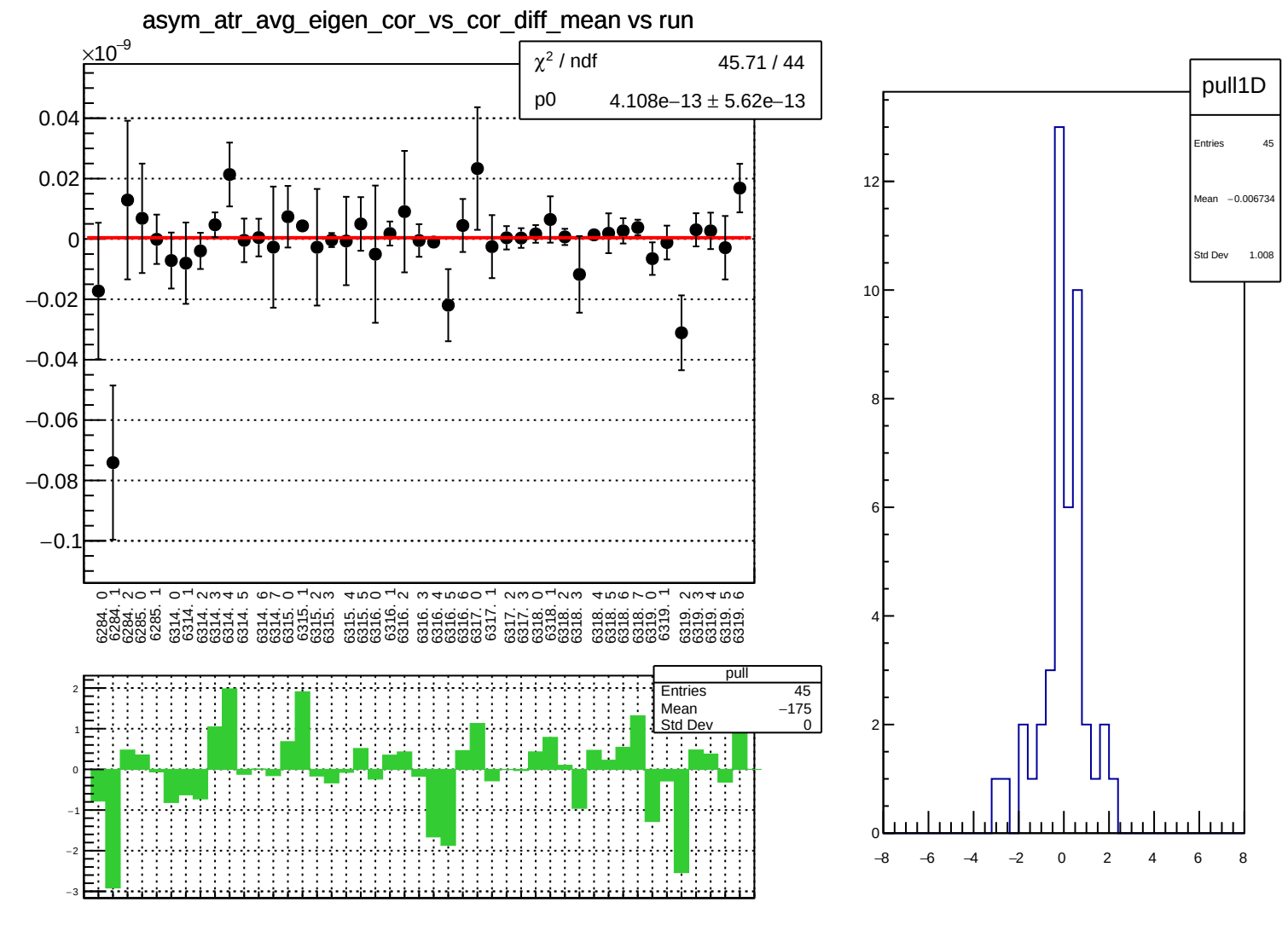
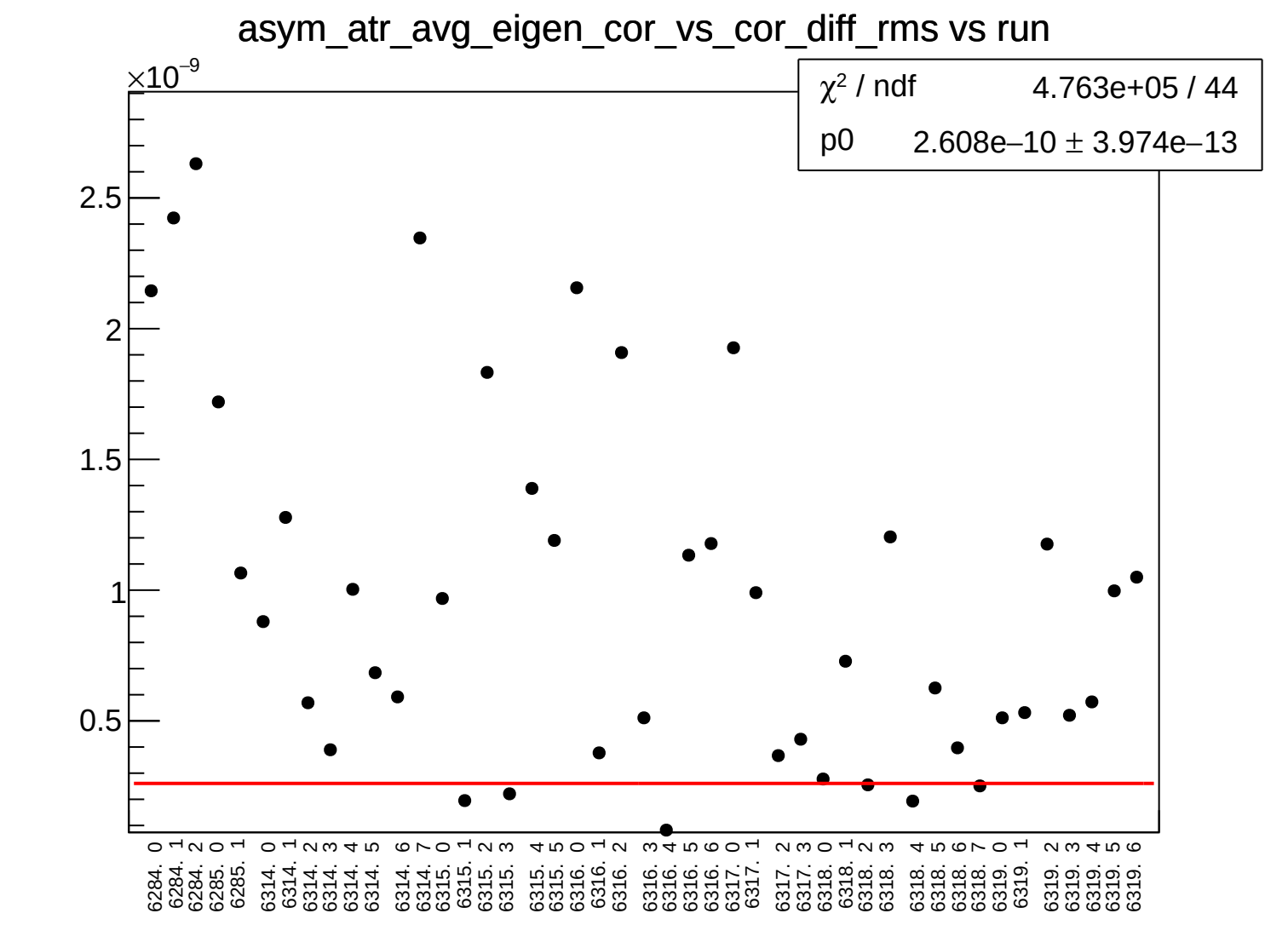
6319. 4
6319. 5
6319. 6

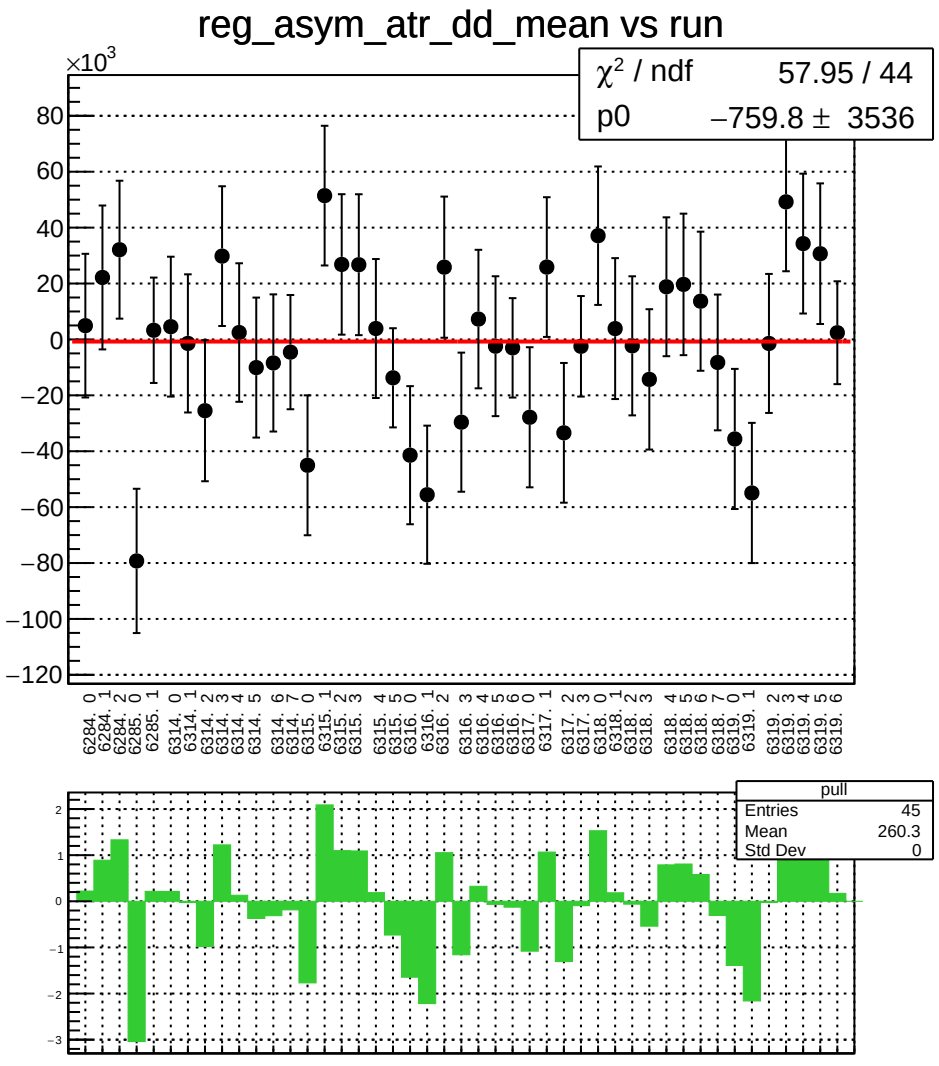

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.05 / 44
p0 0.4468 ± 0.6544
pull
Entries 45
Mean −41.3
Std Dev 0

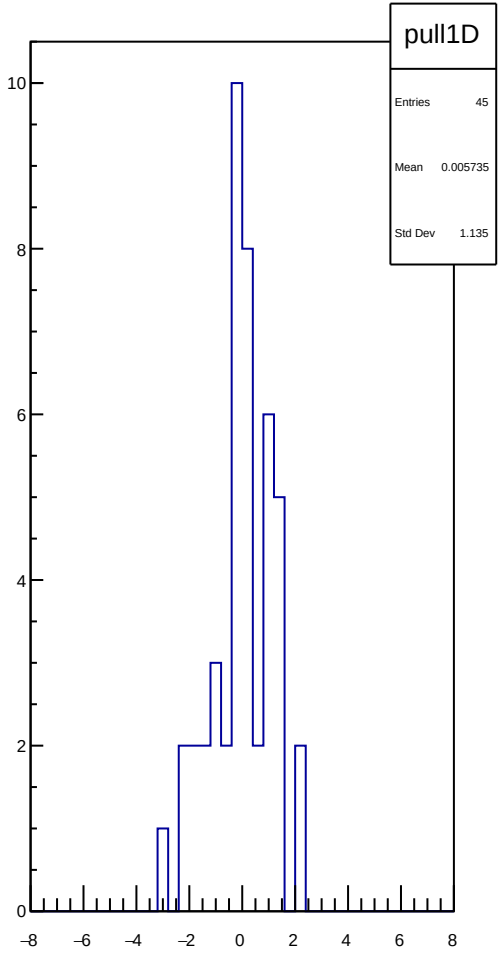

pull1D
Entries 45
Mean 0.0436
Std Dev 0.9424

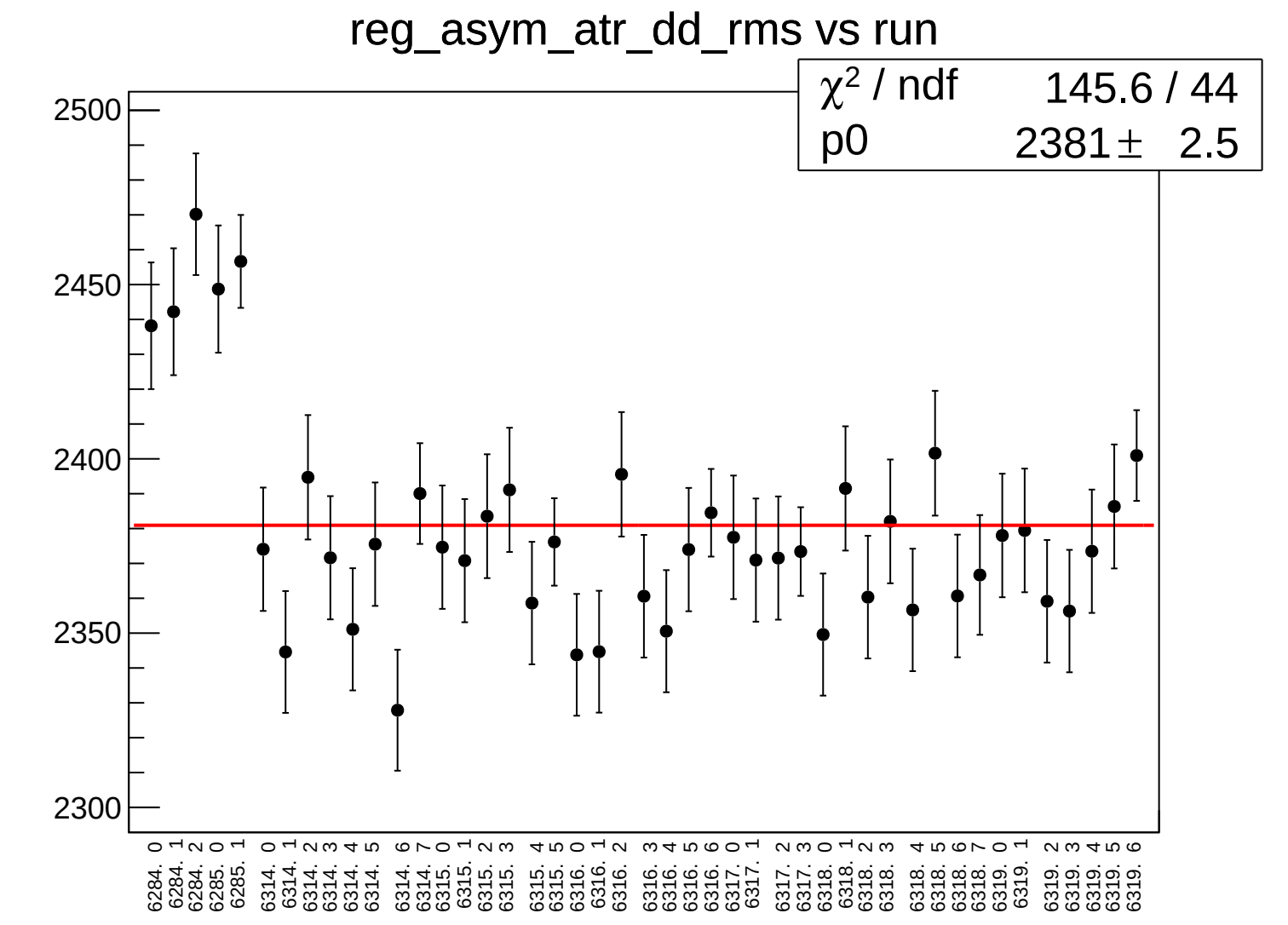

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.663e+04 / 44
p0 434.2 ± 0.4627
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

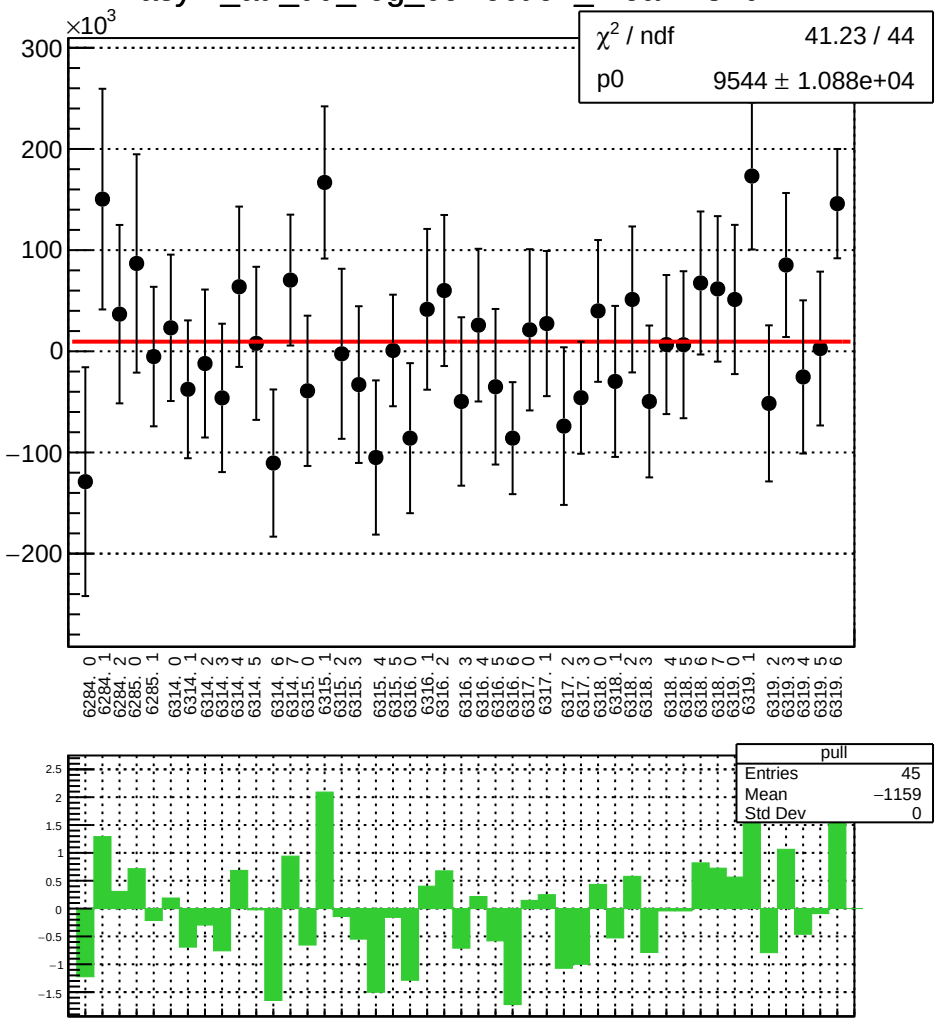

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 45.71 / 44
p0 4.108e−13 ± 5.62e−13
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −175
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.006734
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

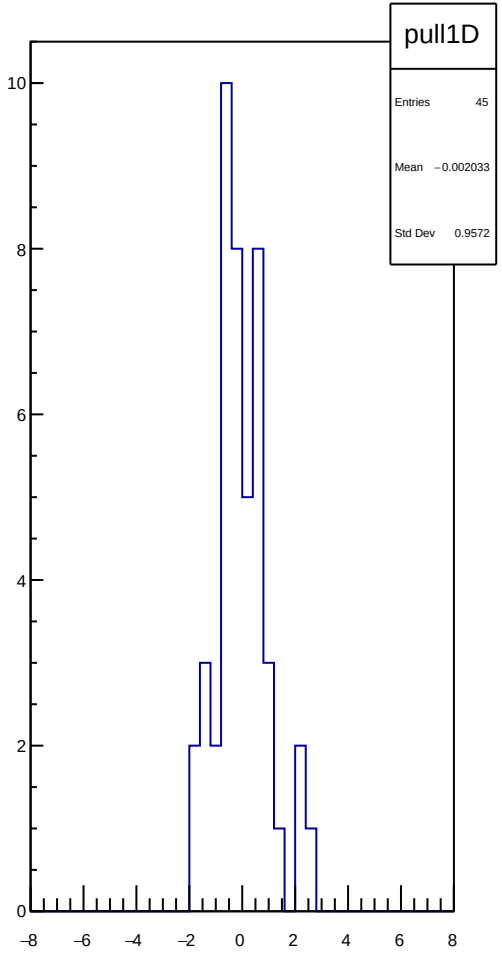

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.763e+05 / 44
p0 2.608e−10 ± 3.974e−13
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

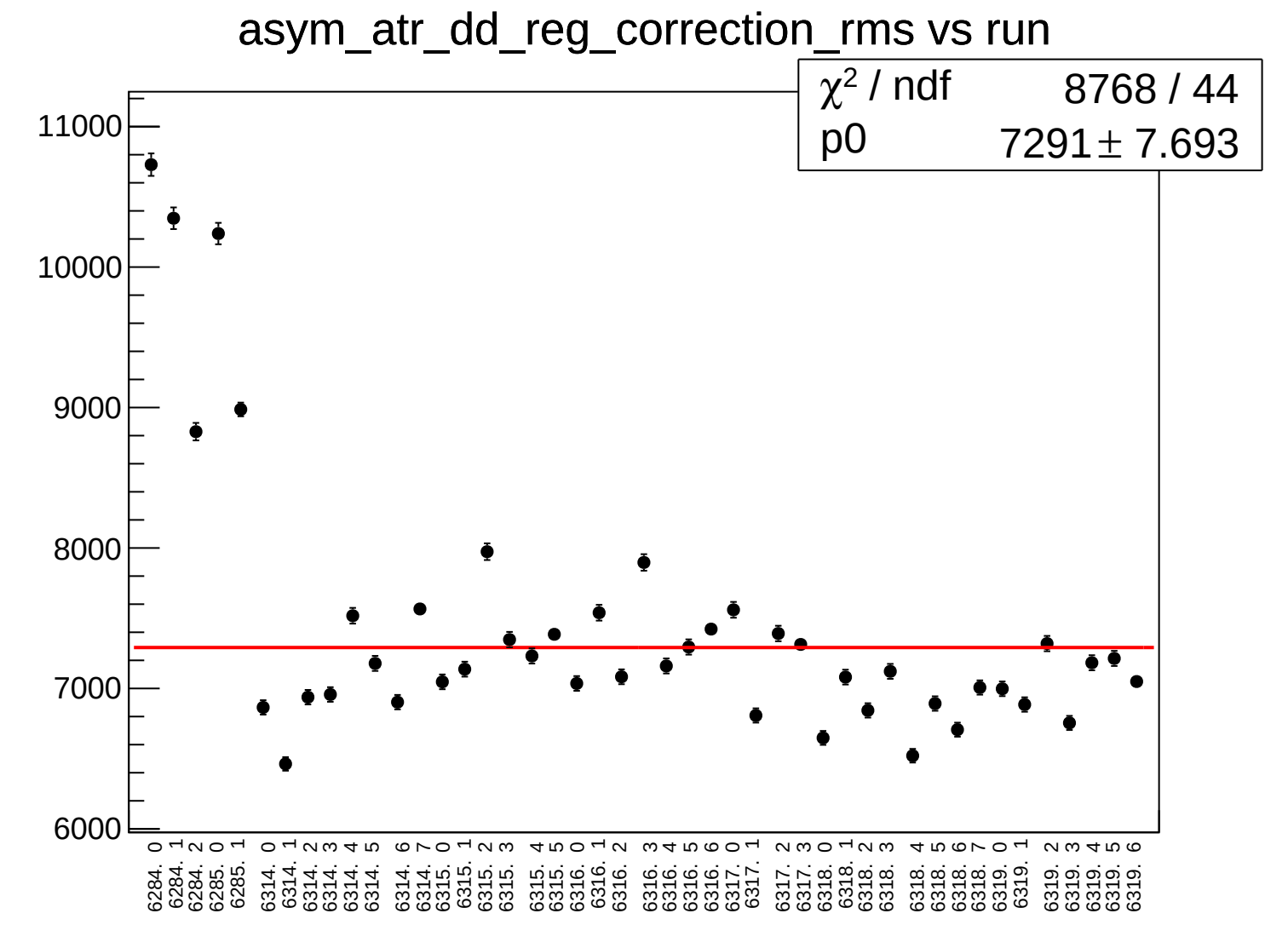

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 57.95 / 44
p0 −759.8 ± 3536
pull
Entries 45
Mean 260.3
Std Dev 0

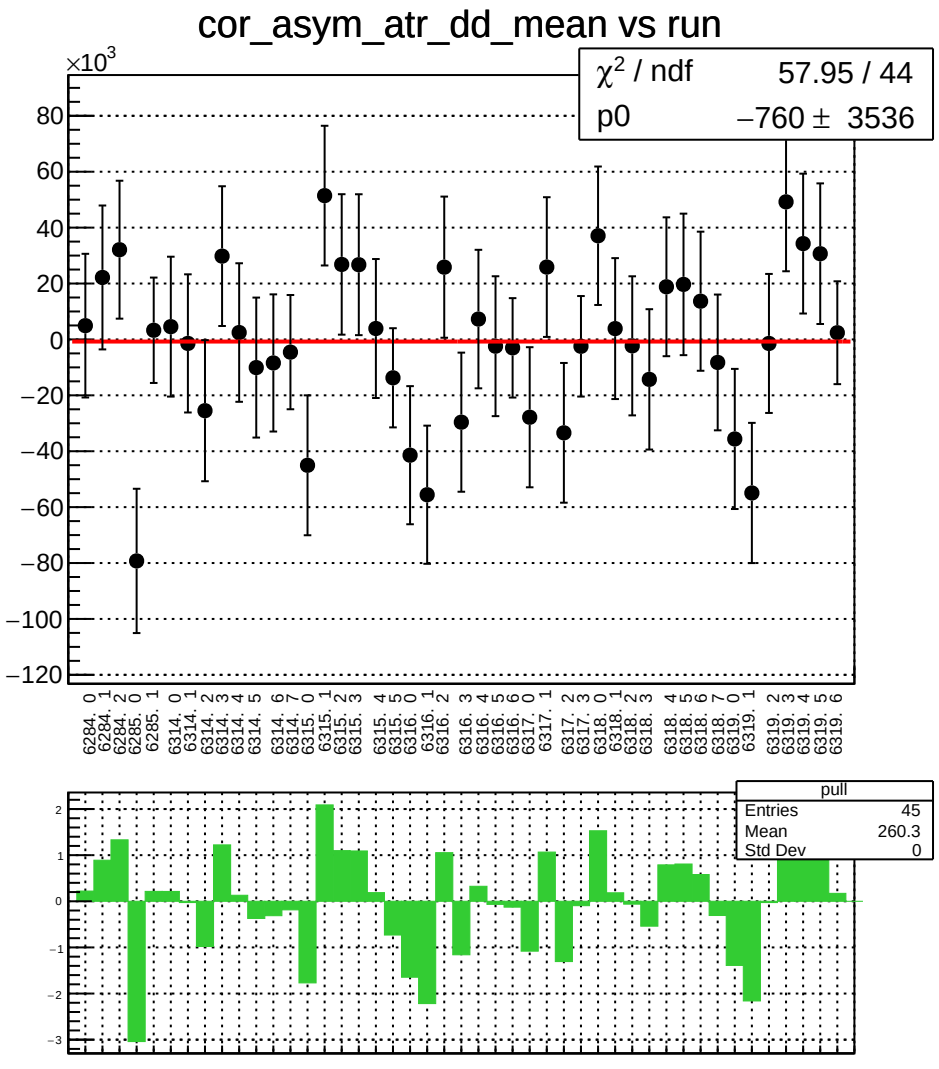

pull1D
Entries 45
Mean 0.005735
Std Dev 1.135

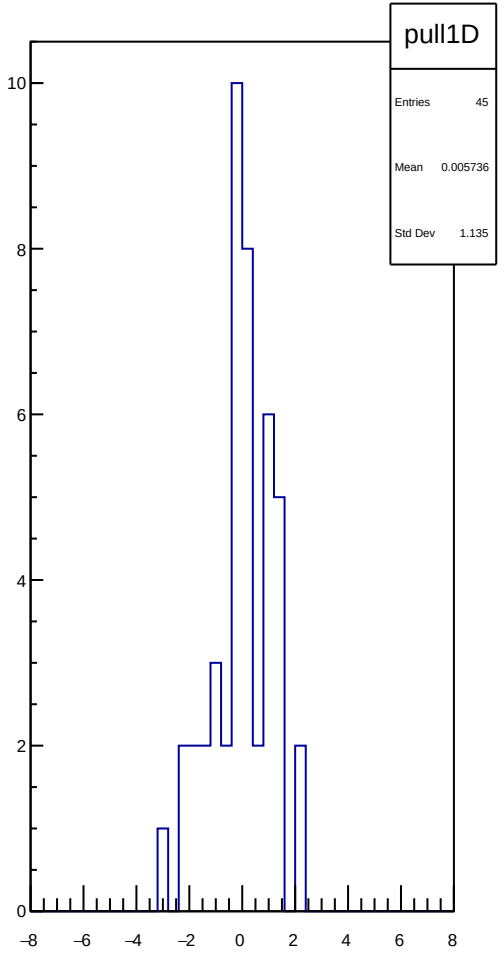

reg_asym_atr_dd_rms vs run
χ² / ndf 145.6 / 44
p0 2381 ± 2.5
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

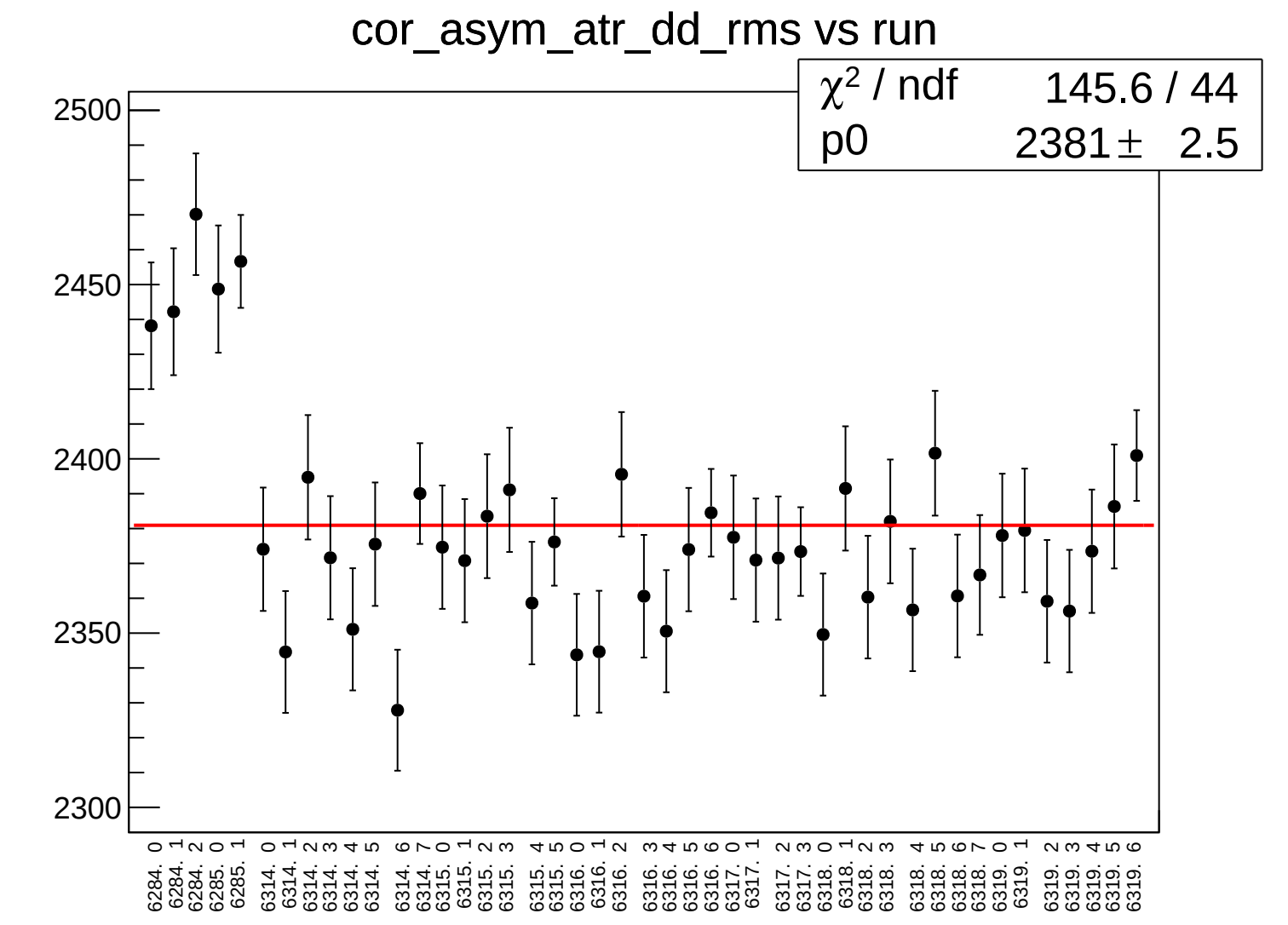

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.23 / 44
p0 9544 ± 1.088e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1159
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

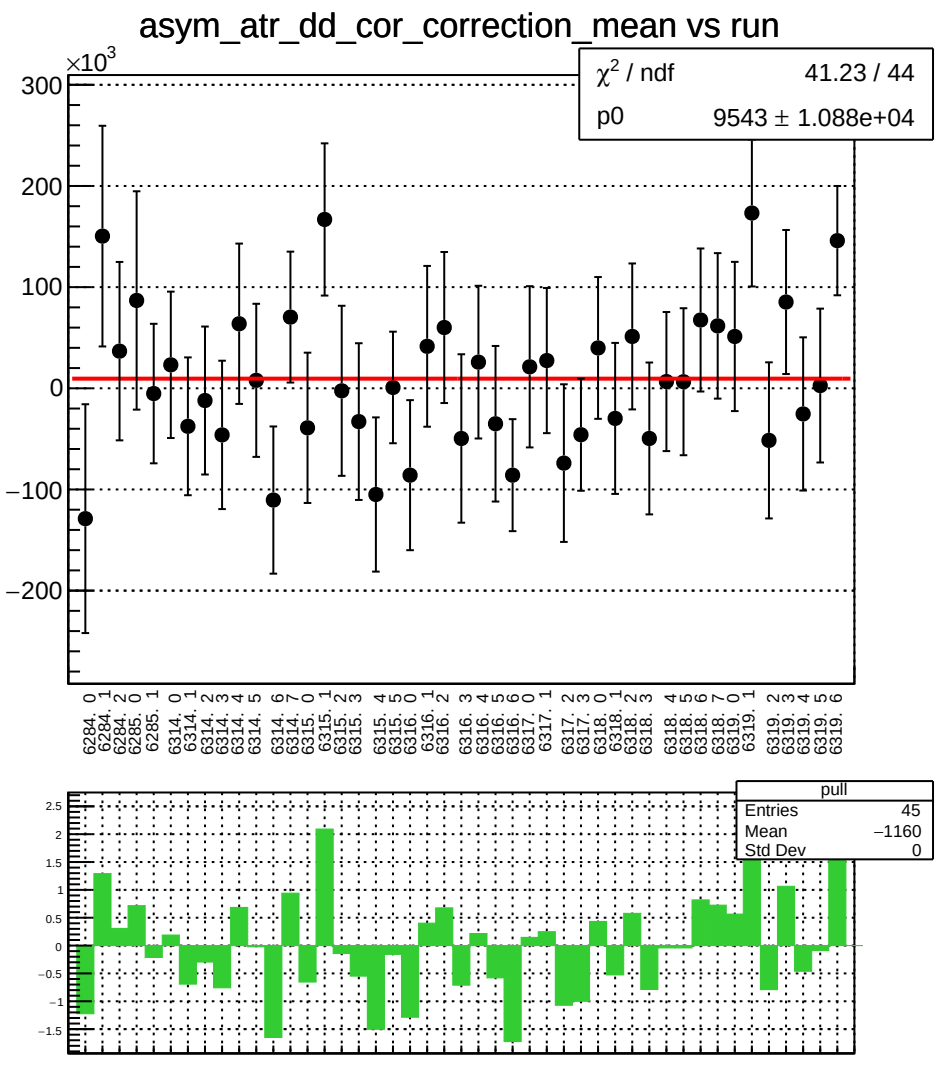

pull1D
Entries 45
Mean −0.002033
Std Dev 0.9572
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

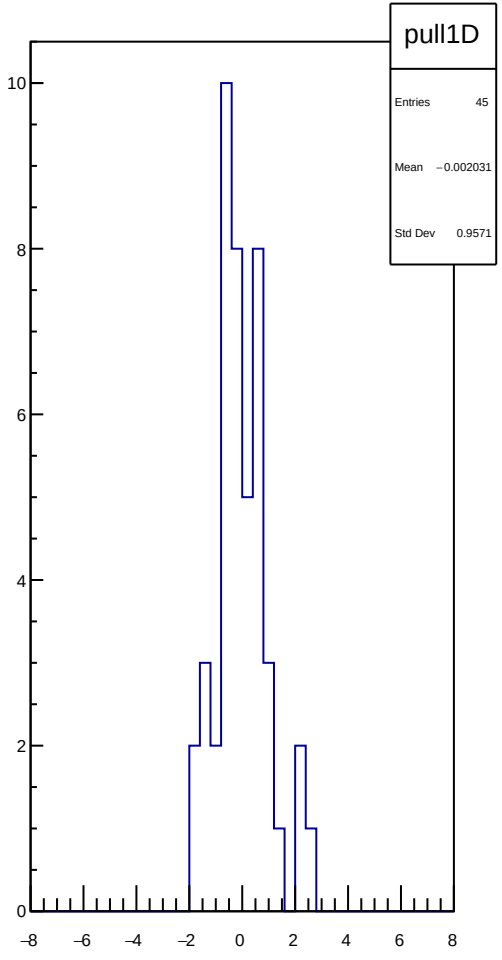

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 8768 / 44
p0 7291 ± 7.693
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

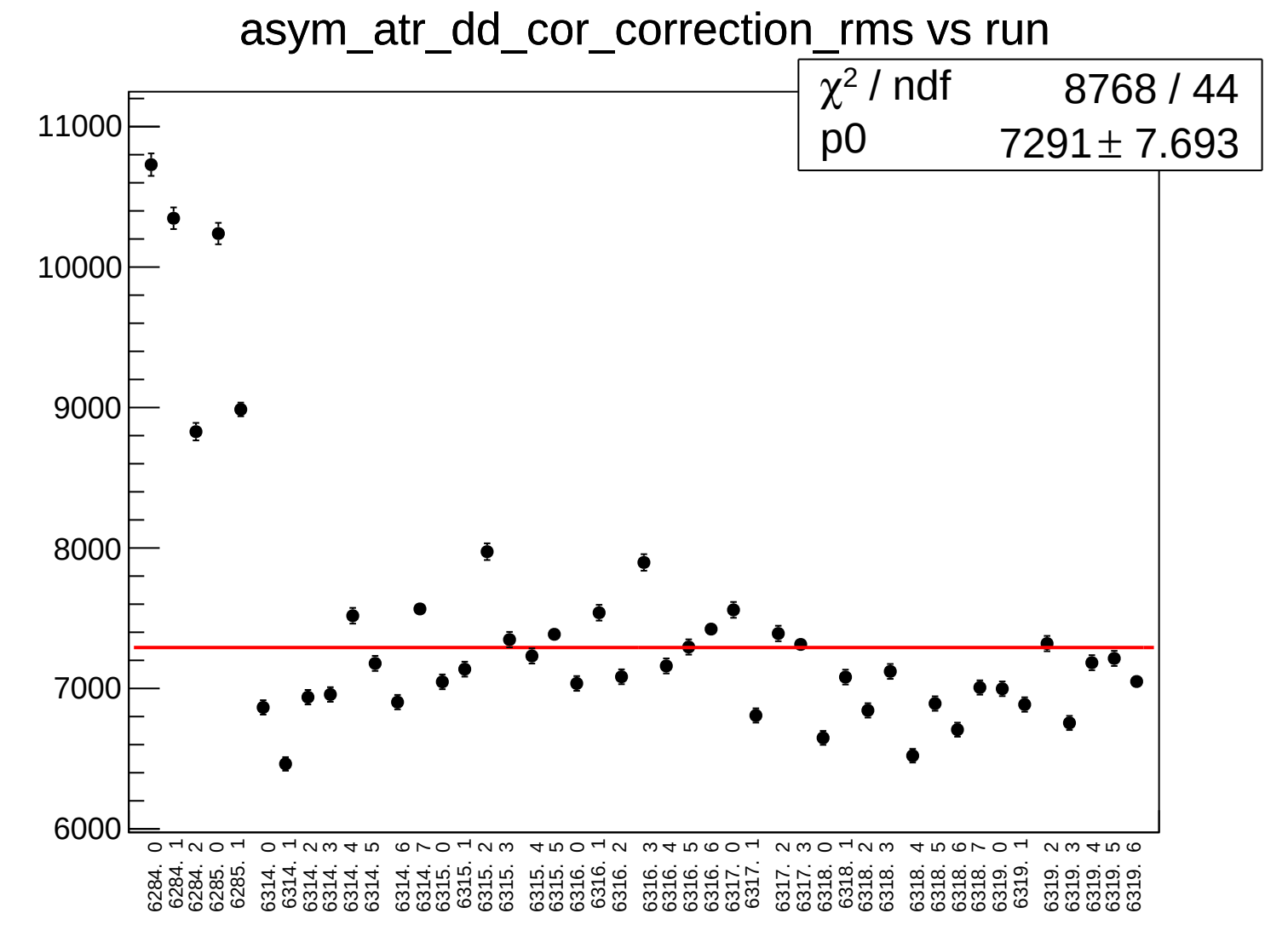

cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 57.95 / 44
p0 −760 ± 3536
pull
Entries 45
Mean 260.3
Std Dev 0

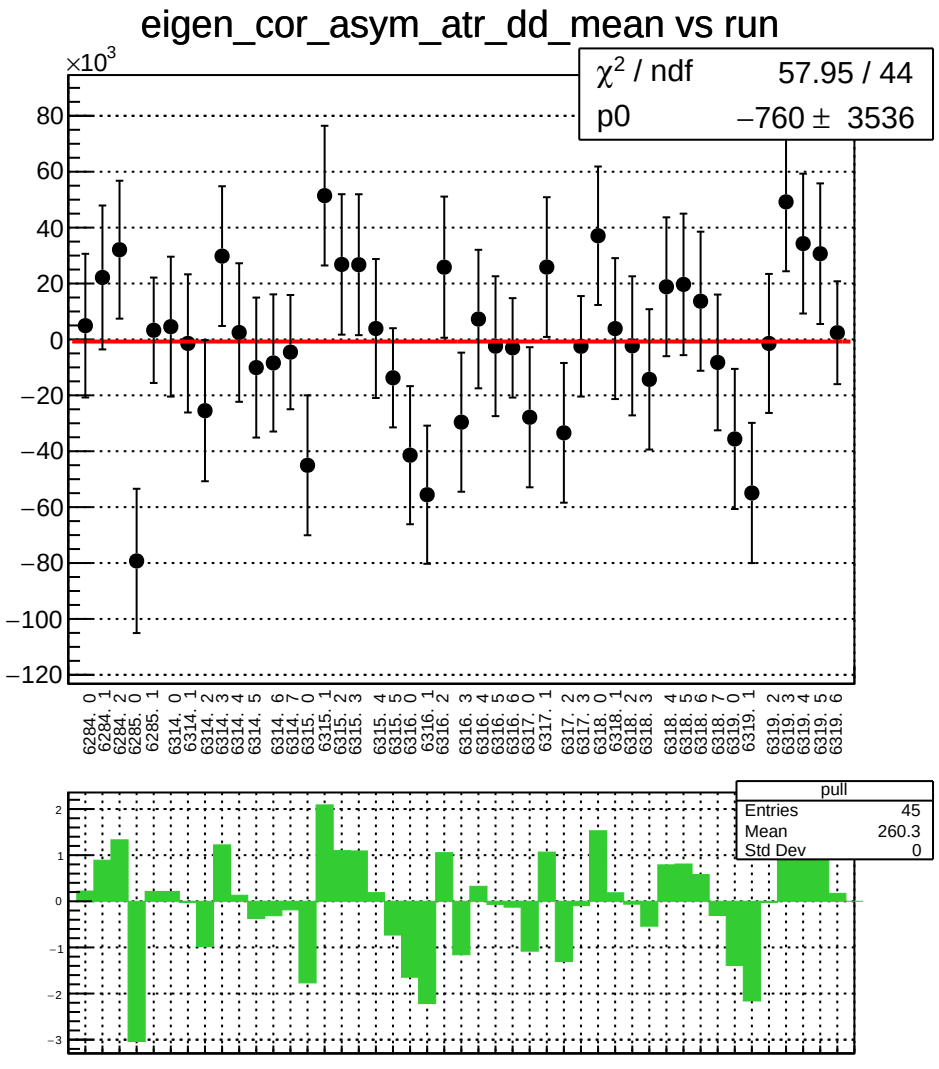

pull1D
Entries 45
Mean 0.005736
Std Dev 1.135

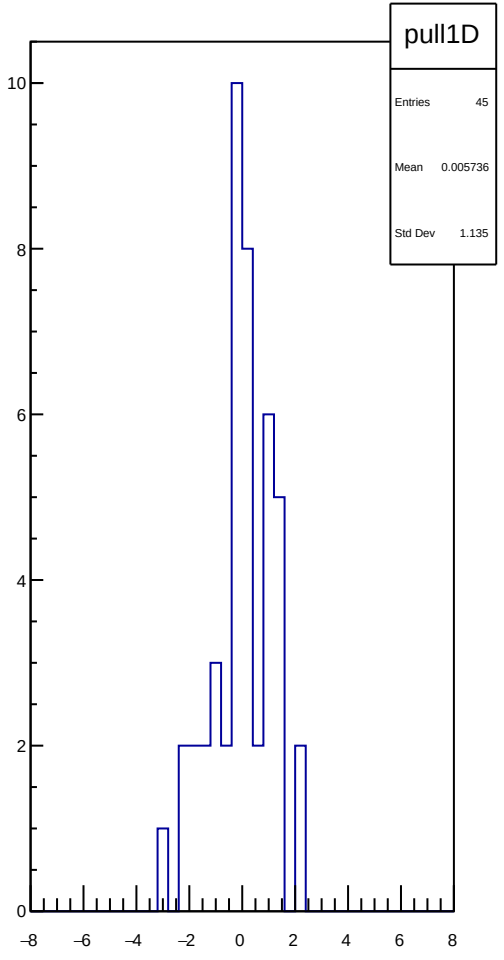

cor_asym_atr_dd_rms vs run
χ² / ndf 145.6 / 44
p0 2381 ± 2.5
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

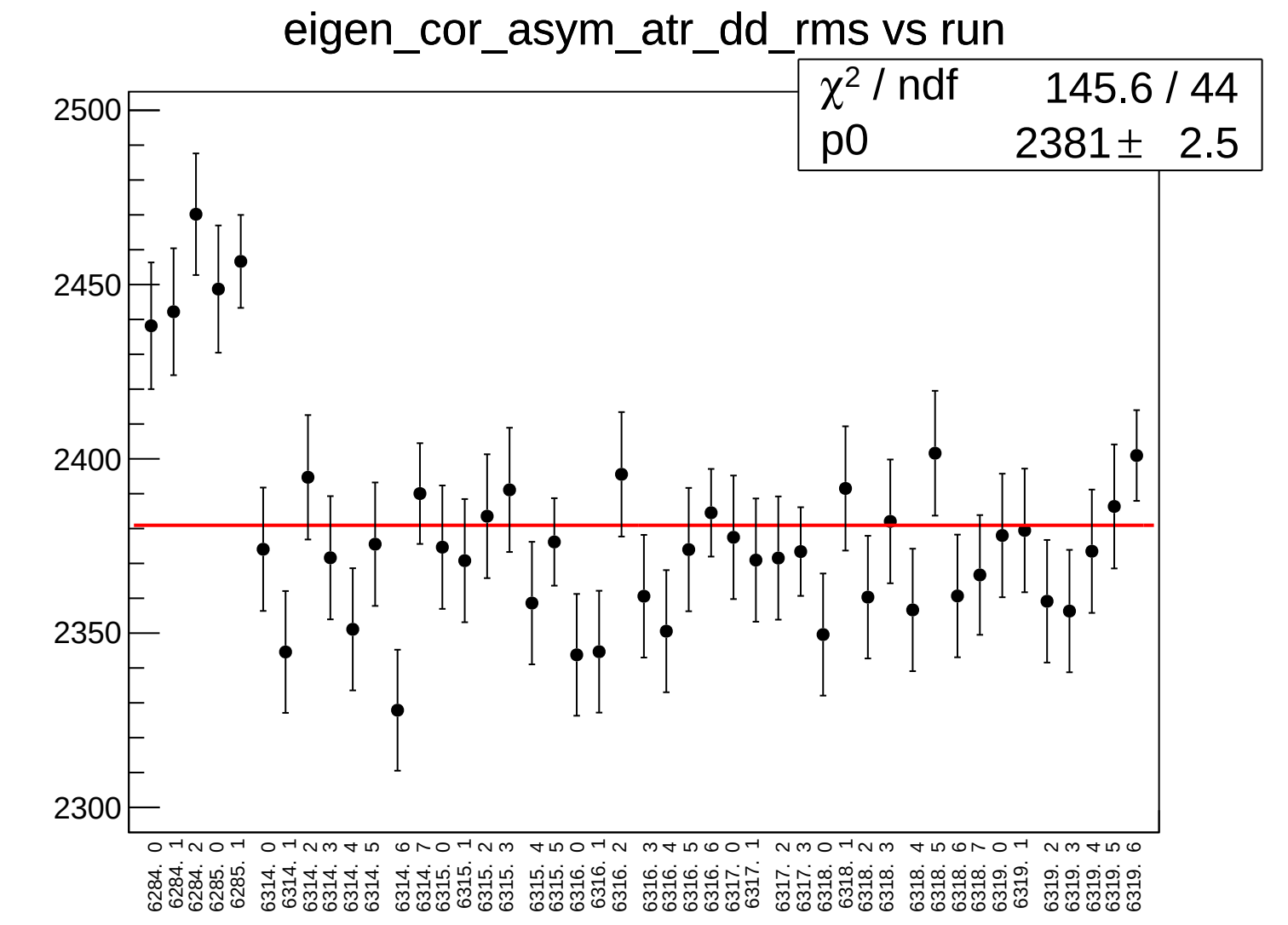

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.23 / 44
p0 9543 ± 1.088e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

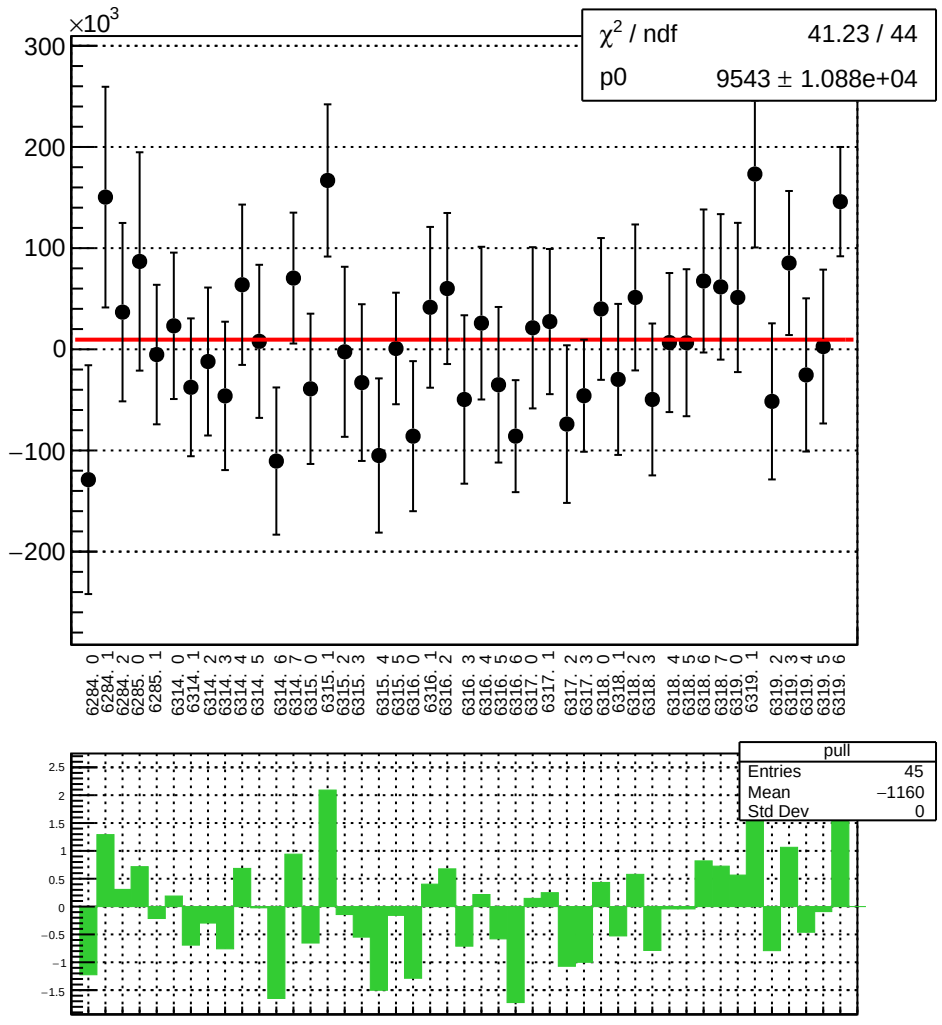

pull1D
Entries 45
Mean −0.002031
Std Dev 0.9571
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

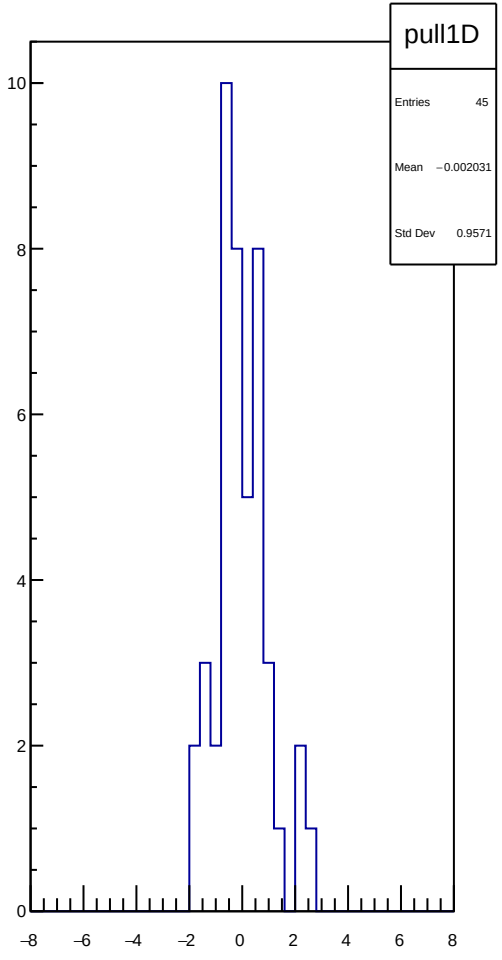

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 8768 / 44
p0 7291 ± 7.693
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

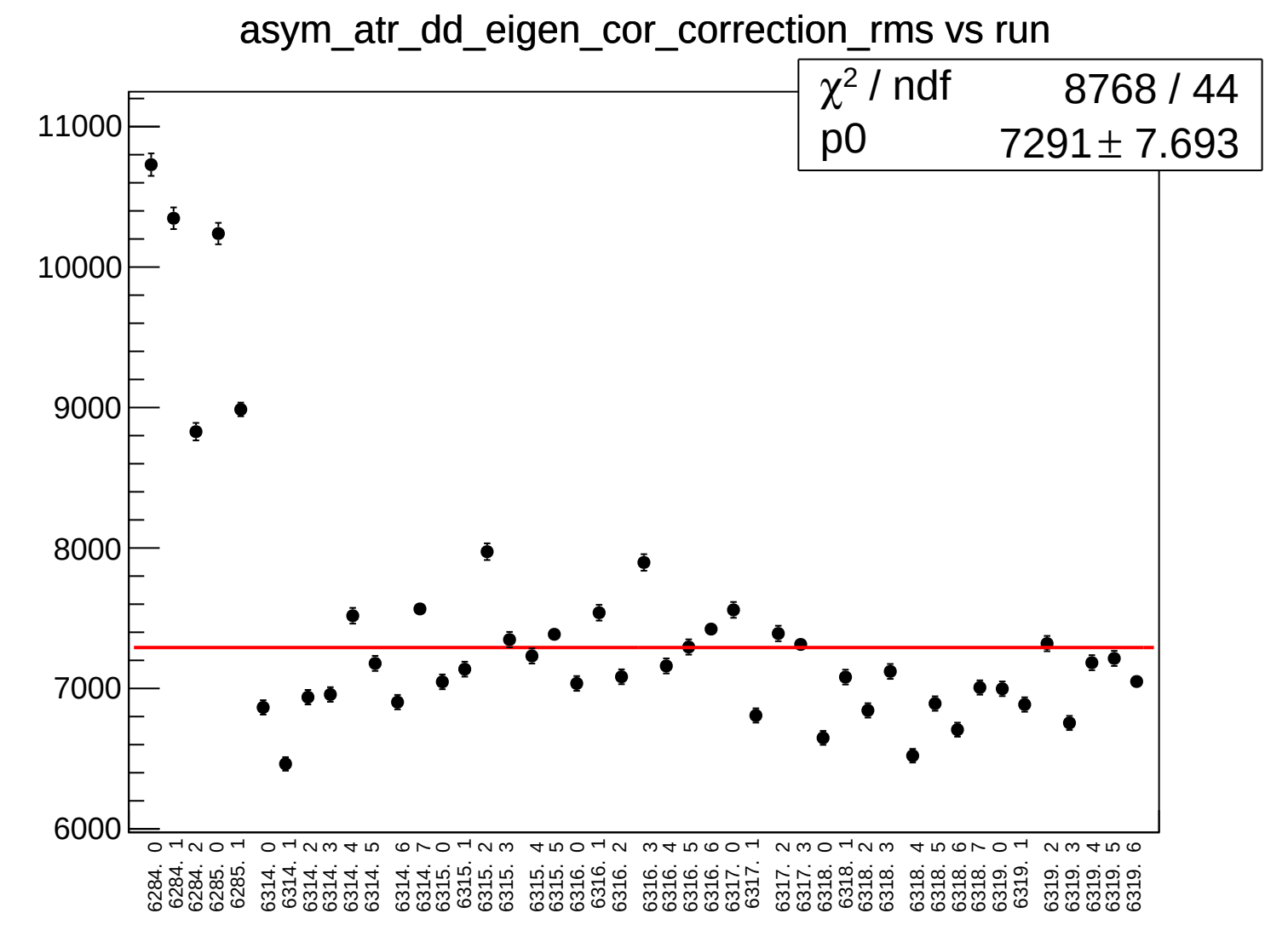

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 57.95 / 44
p0 −760 ± 3536
×10³
pull
Entries 45
Mean 260.3
Std Dev 0

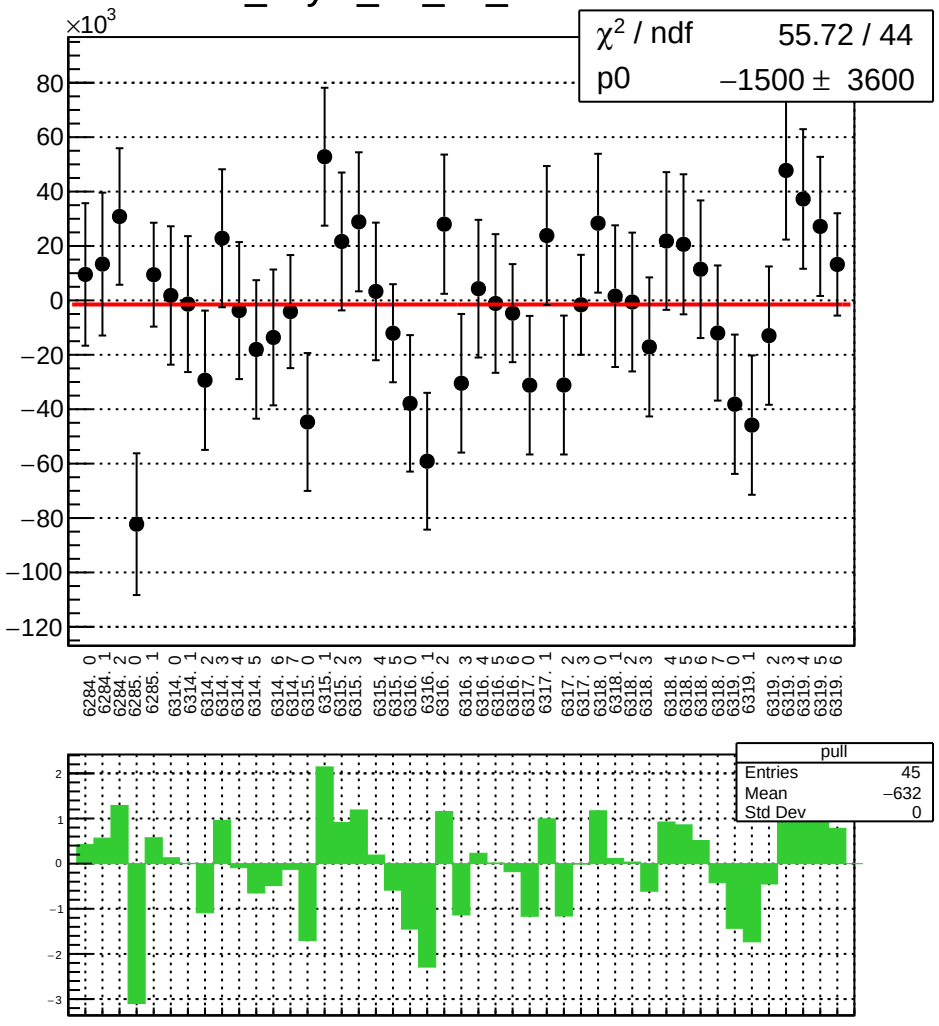

pull1D
Entries 45
Mean 0.005736
Std Dev 1.135

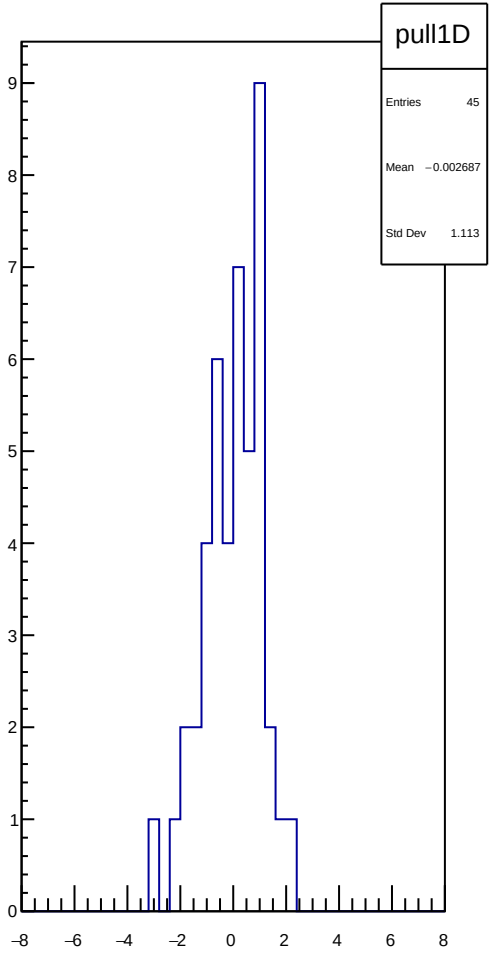

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 145.6 / 44
p0 2381 ± 2.5
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

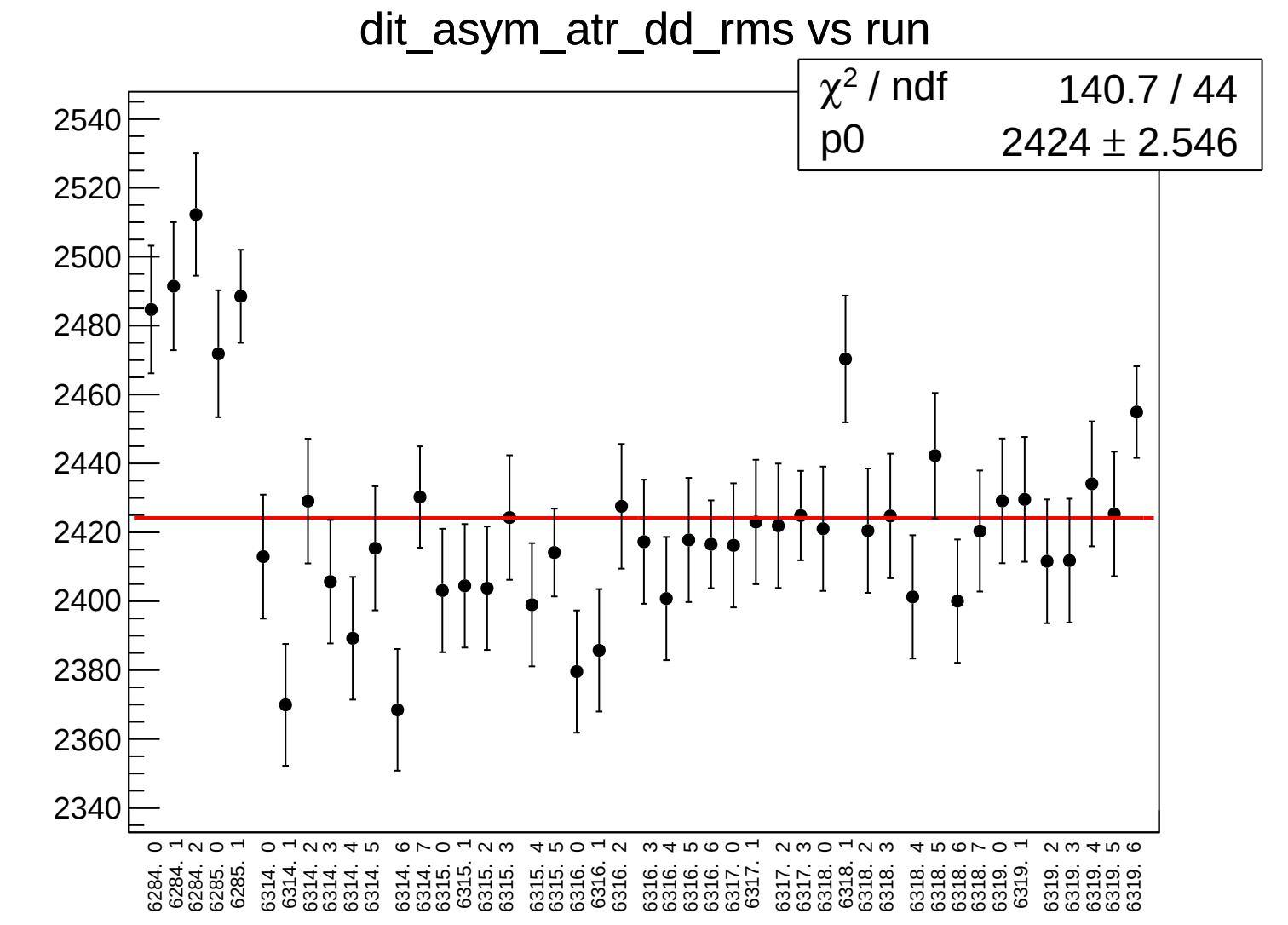

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.23 / 44
p0 9543 ± 1.088e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

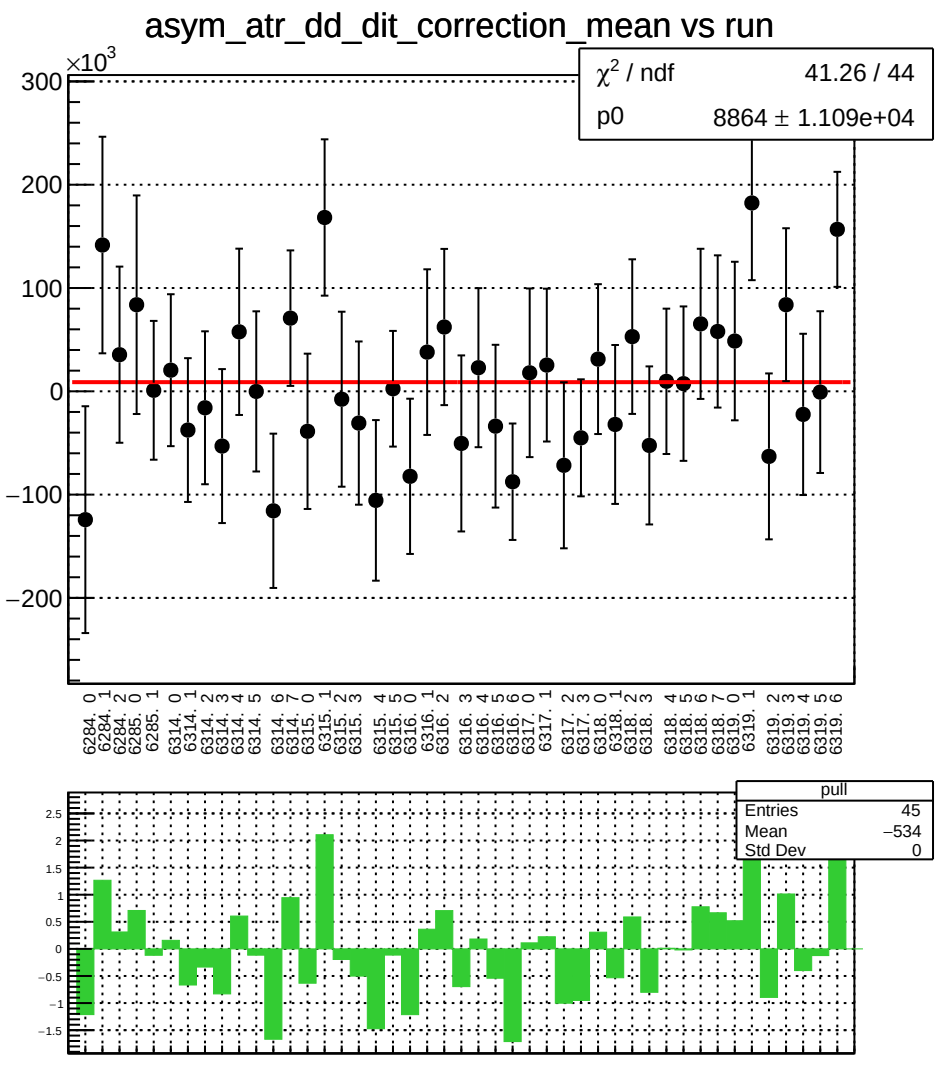

pull1D
Entries 45
Mean −0.002031
Std Dev 0.9571
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

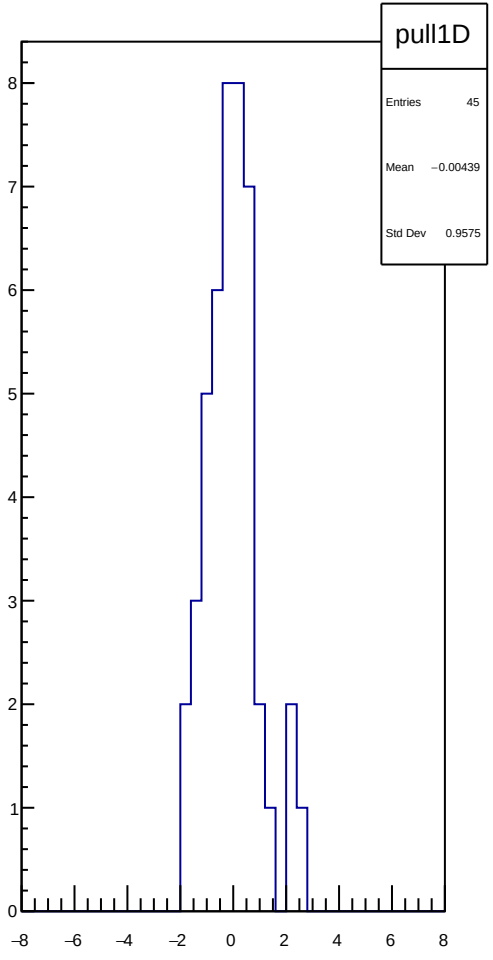

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 8768 / 44
p0 7291 ± 7.693
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 55.72 / 44
p0 −1500 ± 3600
pull
Entries 45
Mean −632
Std Dev 0

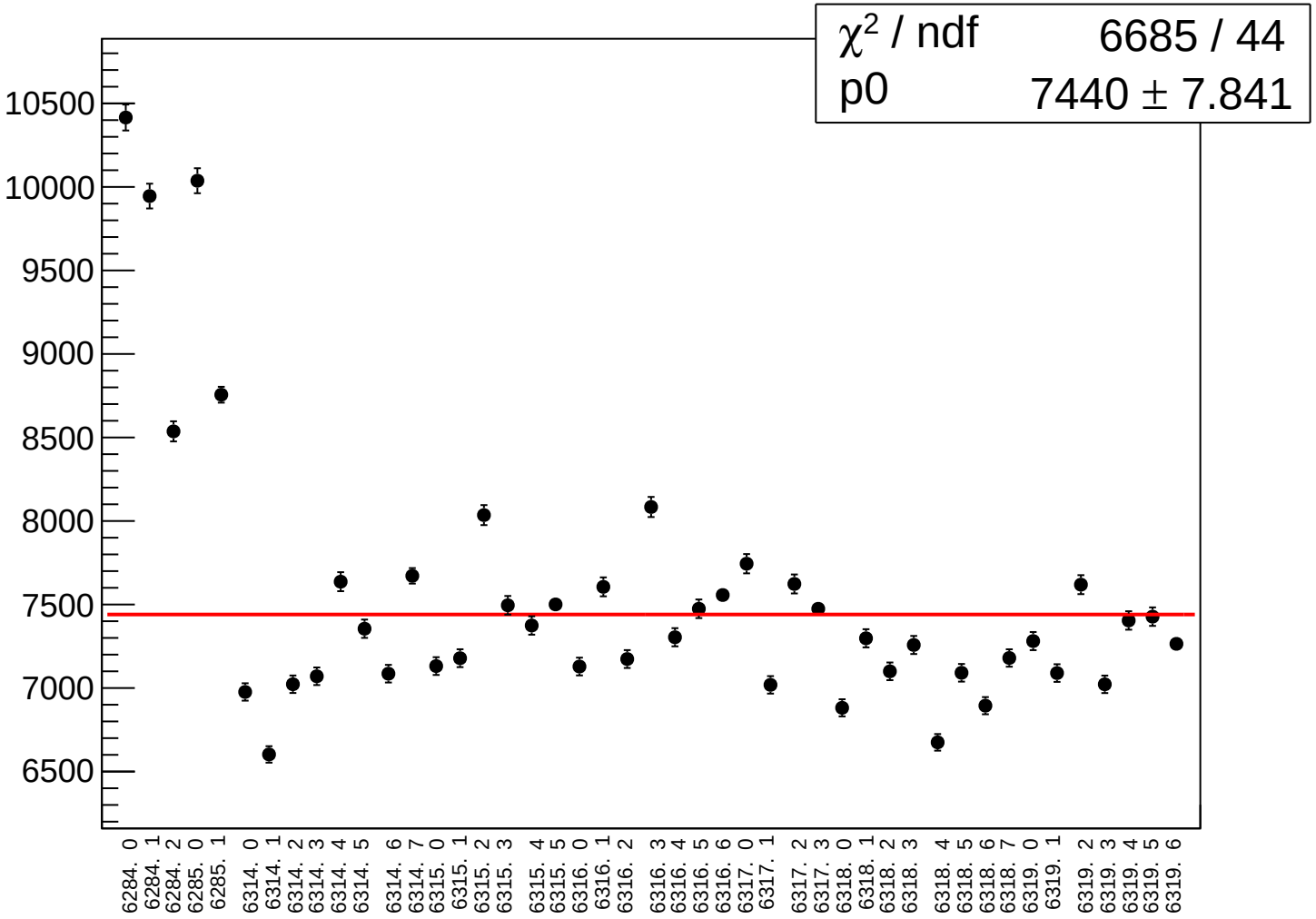

pull1D
Entries 45
Mean −0.002687
Std Dev 1.113

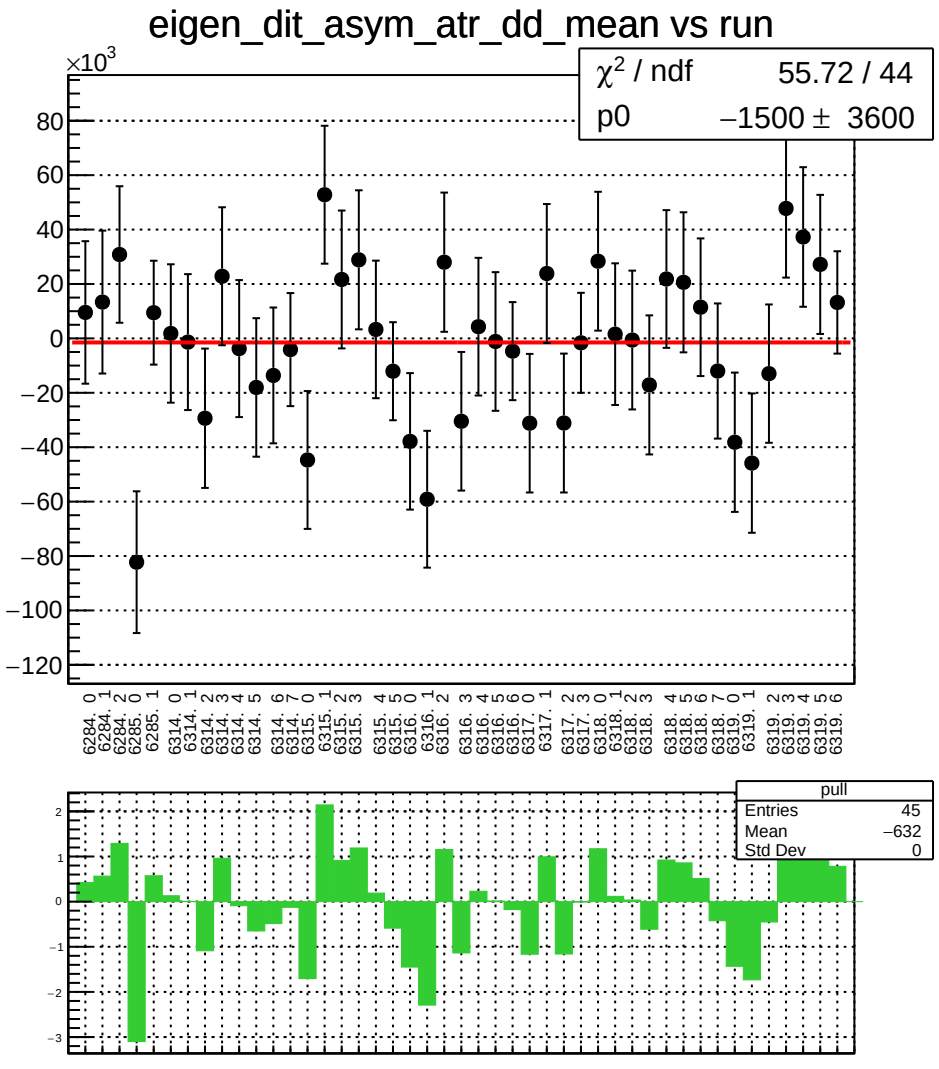

dit_asym_atr_dd_rms vs run
χ² / ndf 140.7 / 44
p0 2424 ± 2.546
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

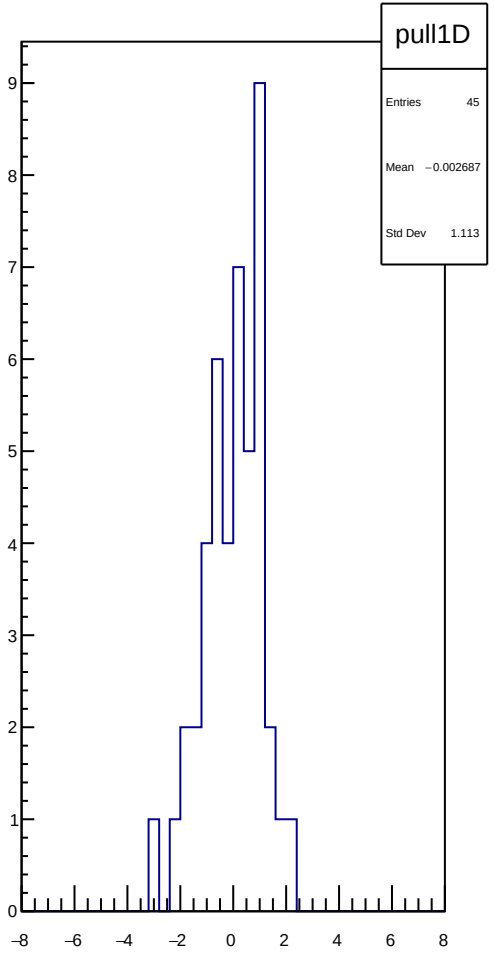

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 8864 ± 1.109e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −534
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

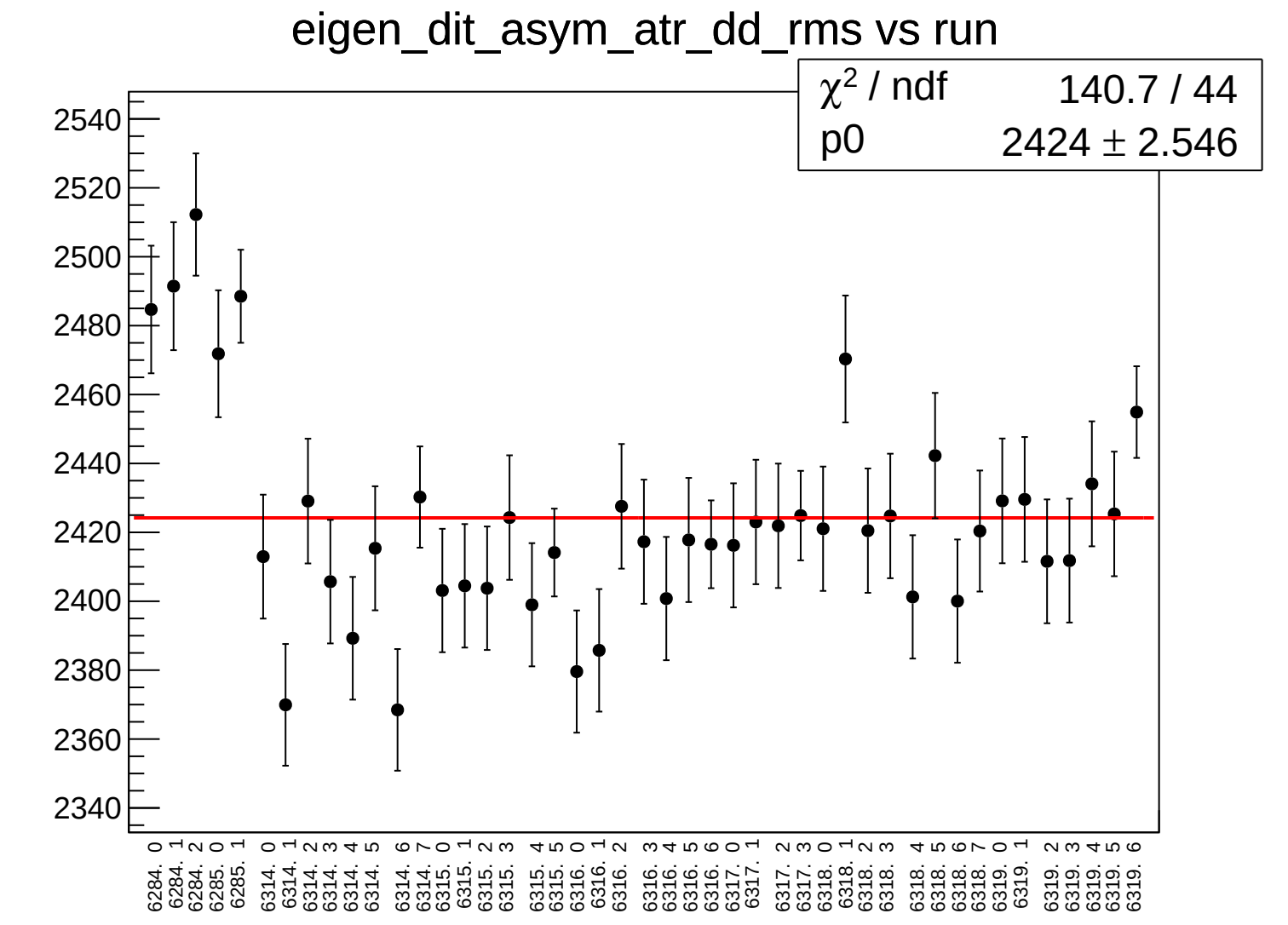

pull1D
Entries 45
Mean −0.00439
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

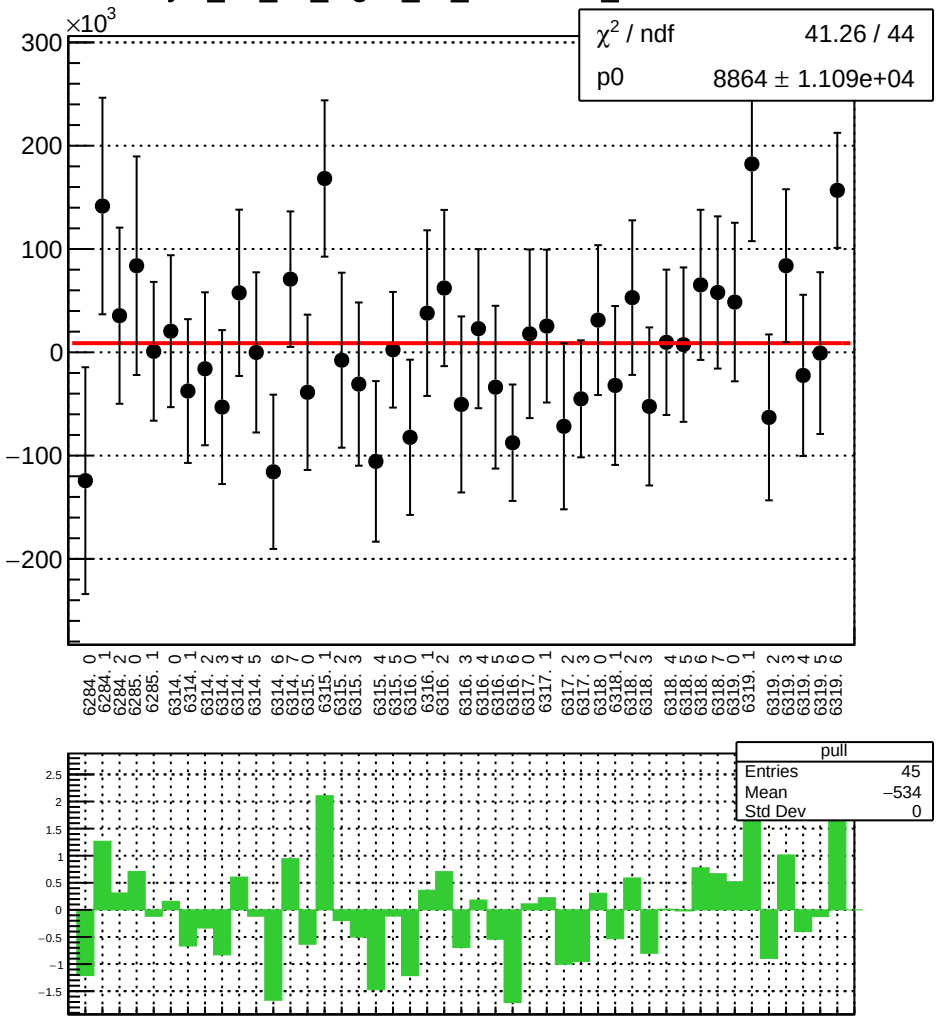
asym_atr_dd_dit_correction_rms vs run

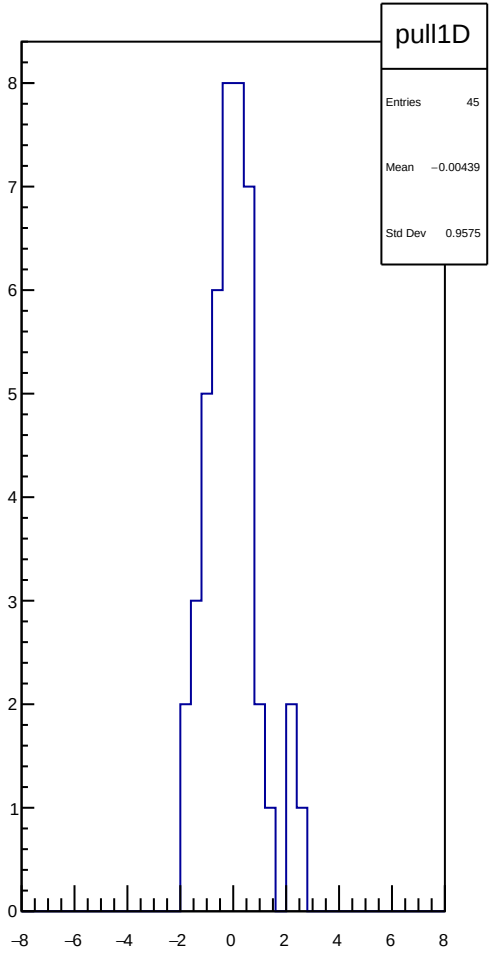


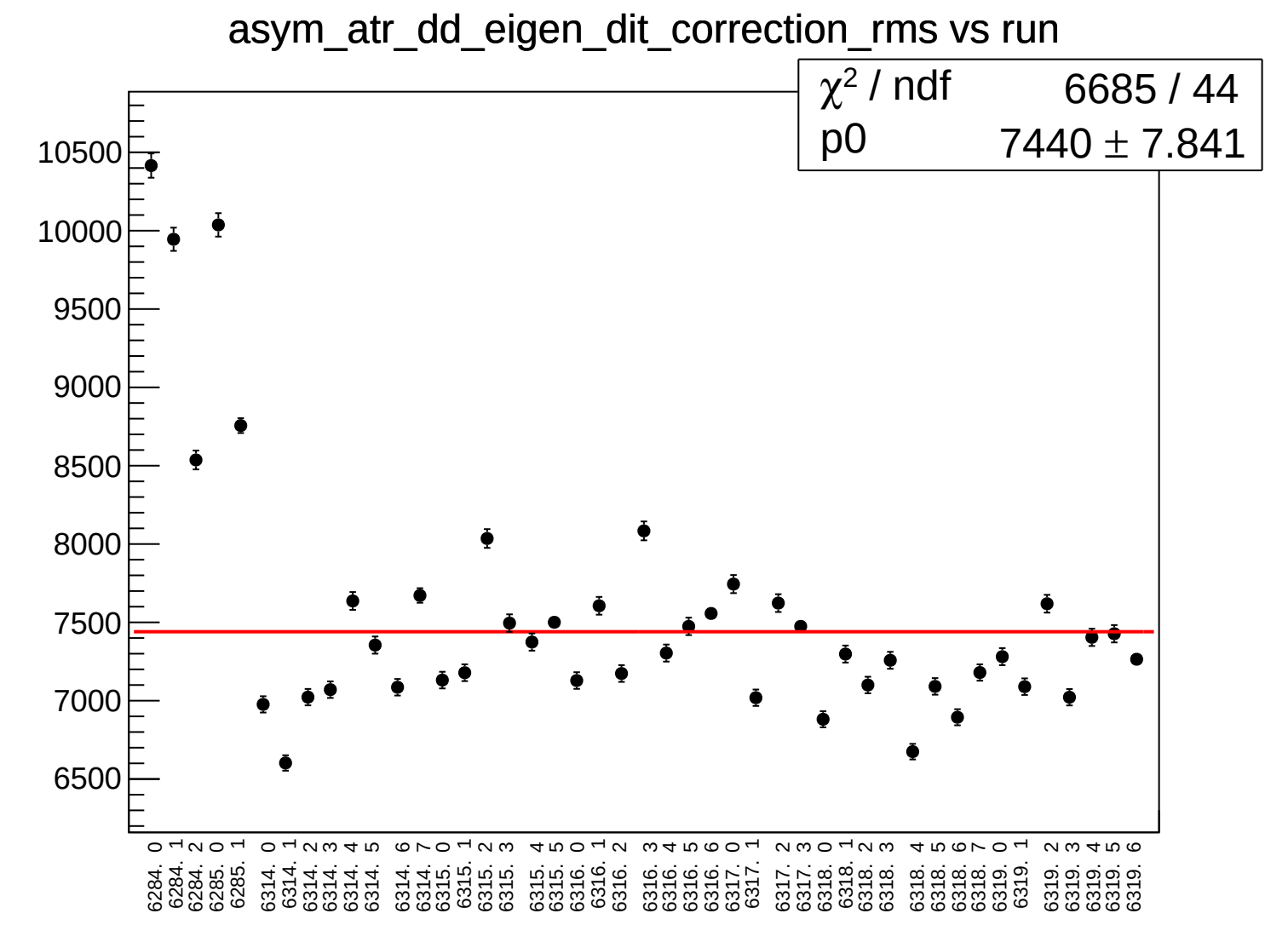

eigen_dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 55.72 / 44
p0 −1500 ± 3600
pull
Entries 45
Mean −632
Std Dev 0

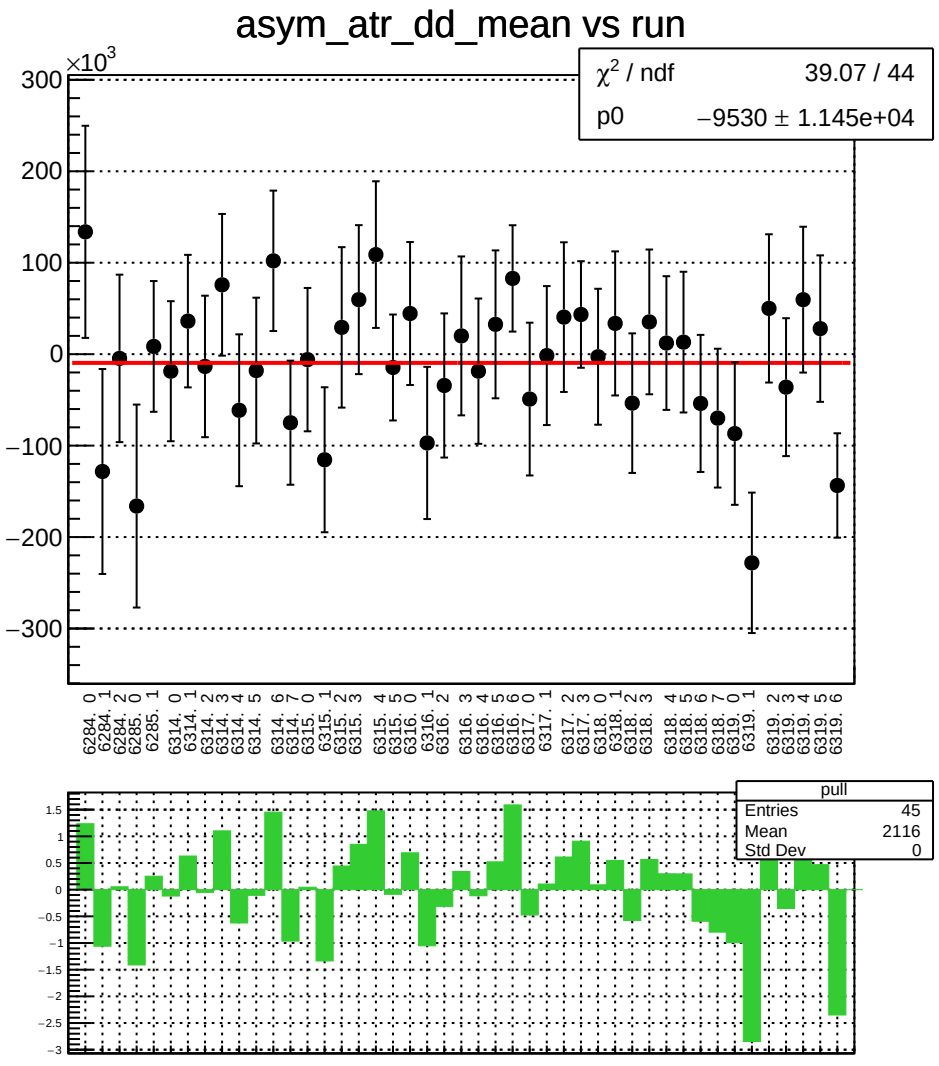

pull1D
Entries 45
Mean −0.002687
Std Dev 1.113

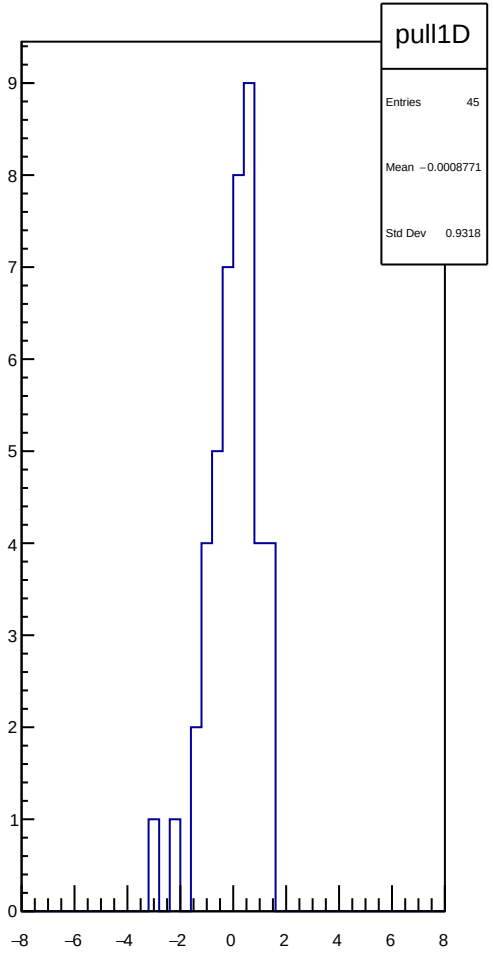

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 140.7 / 44
p0 2424 ± 2.546
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

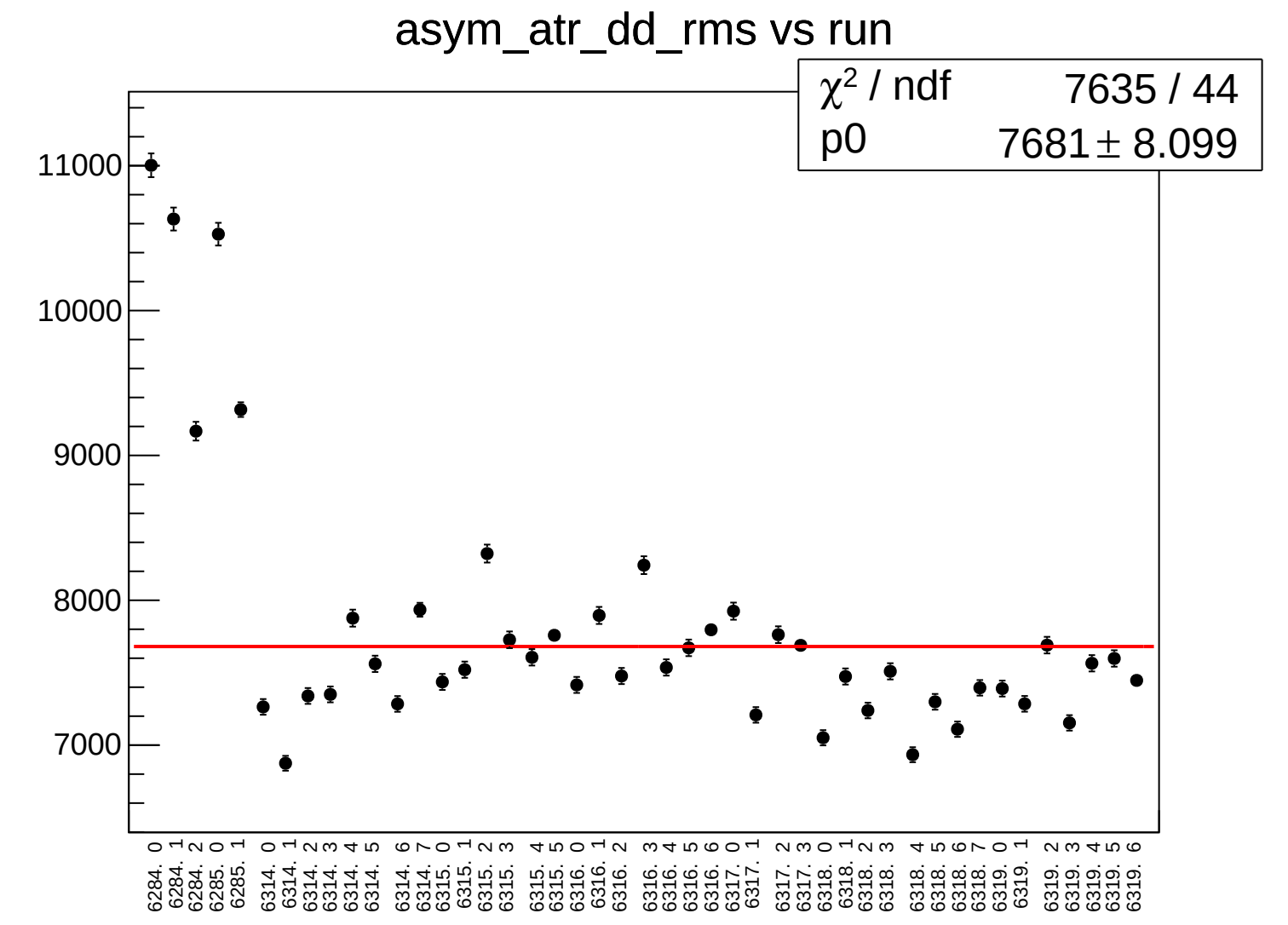

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 8864 ± 1.109e+04
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −534
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

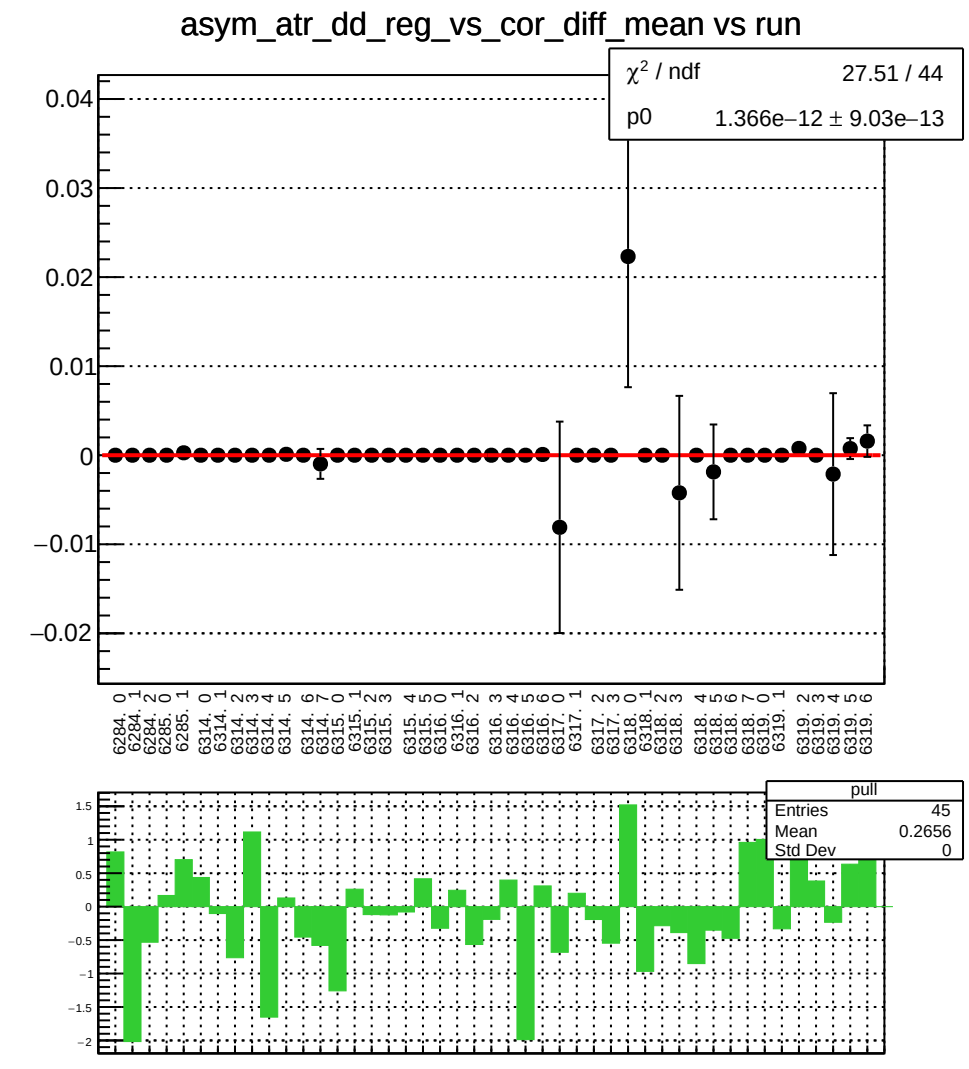

pull1D
Entries 45
Mean −0.00439
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

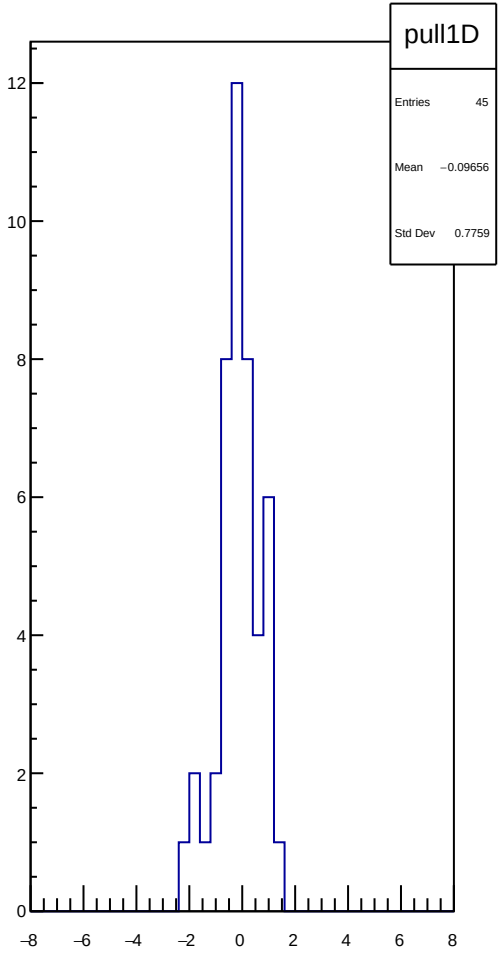

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 6685 / 44
p0 7440 ± 7.841
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

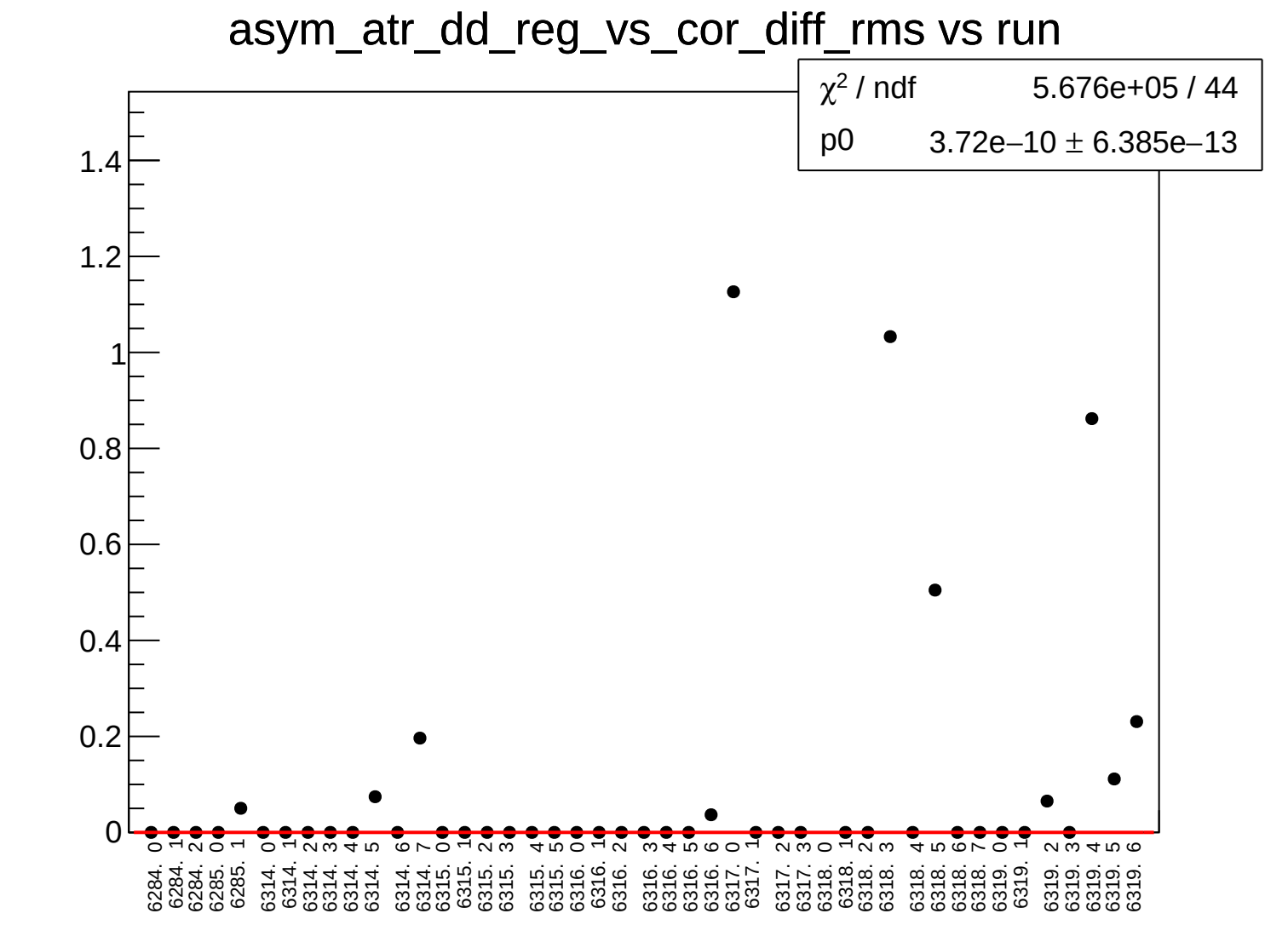

asym_atr_dd_mean vs run
×10^3
χ² / ndf 39.07 / 44
p0 −9530 ± 1.145e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean −0.0008771
Std Dev 0.9318
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_rms vs run
χ² / ndf 7635 / 44
p0 7681 ± 8.099
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.51 / 44
p0 1.366e−12 ± 9.03e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 0.2656
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.09656
Std Dev 0.7759
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.676e+05 / 44
p0 3.72e−10 ± 6.385e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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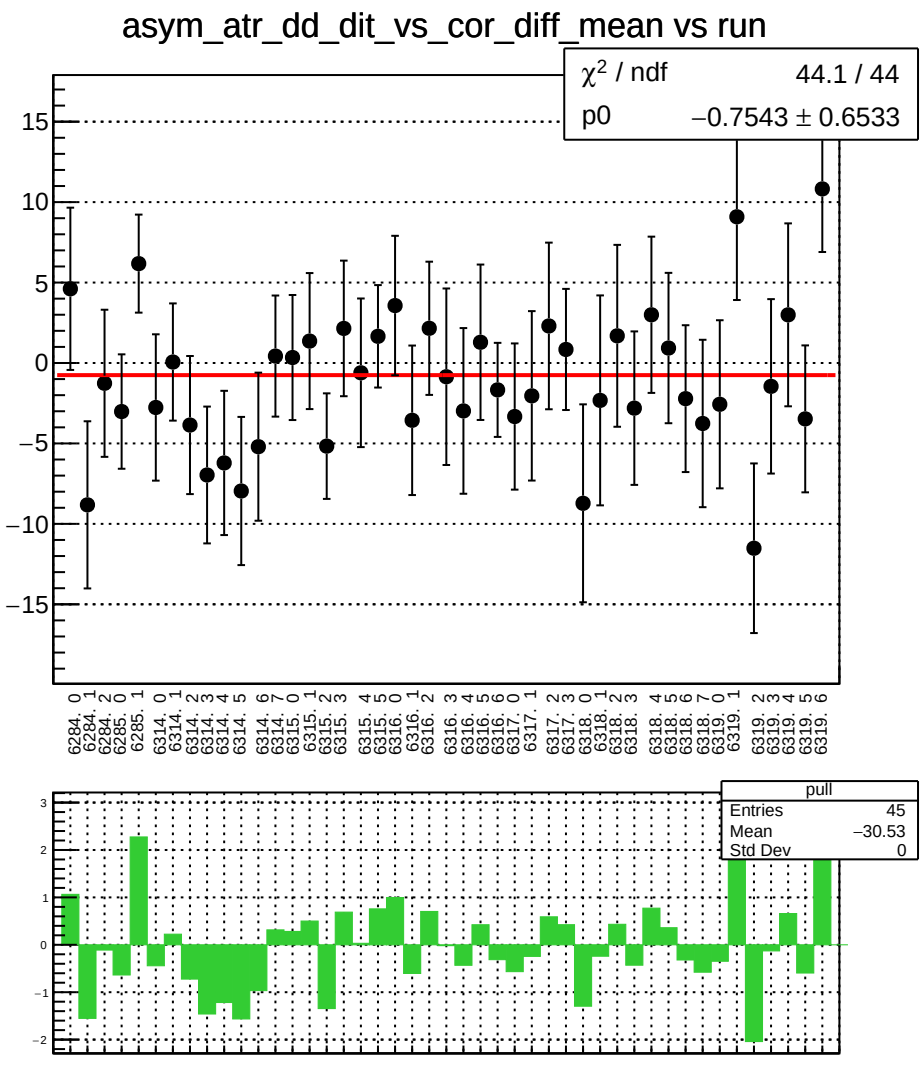
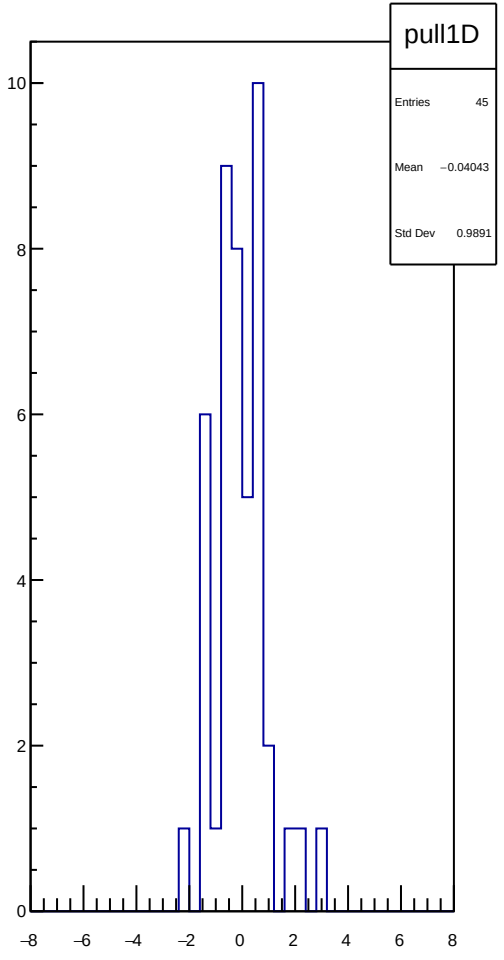
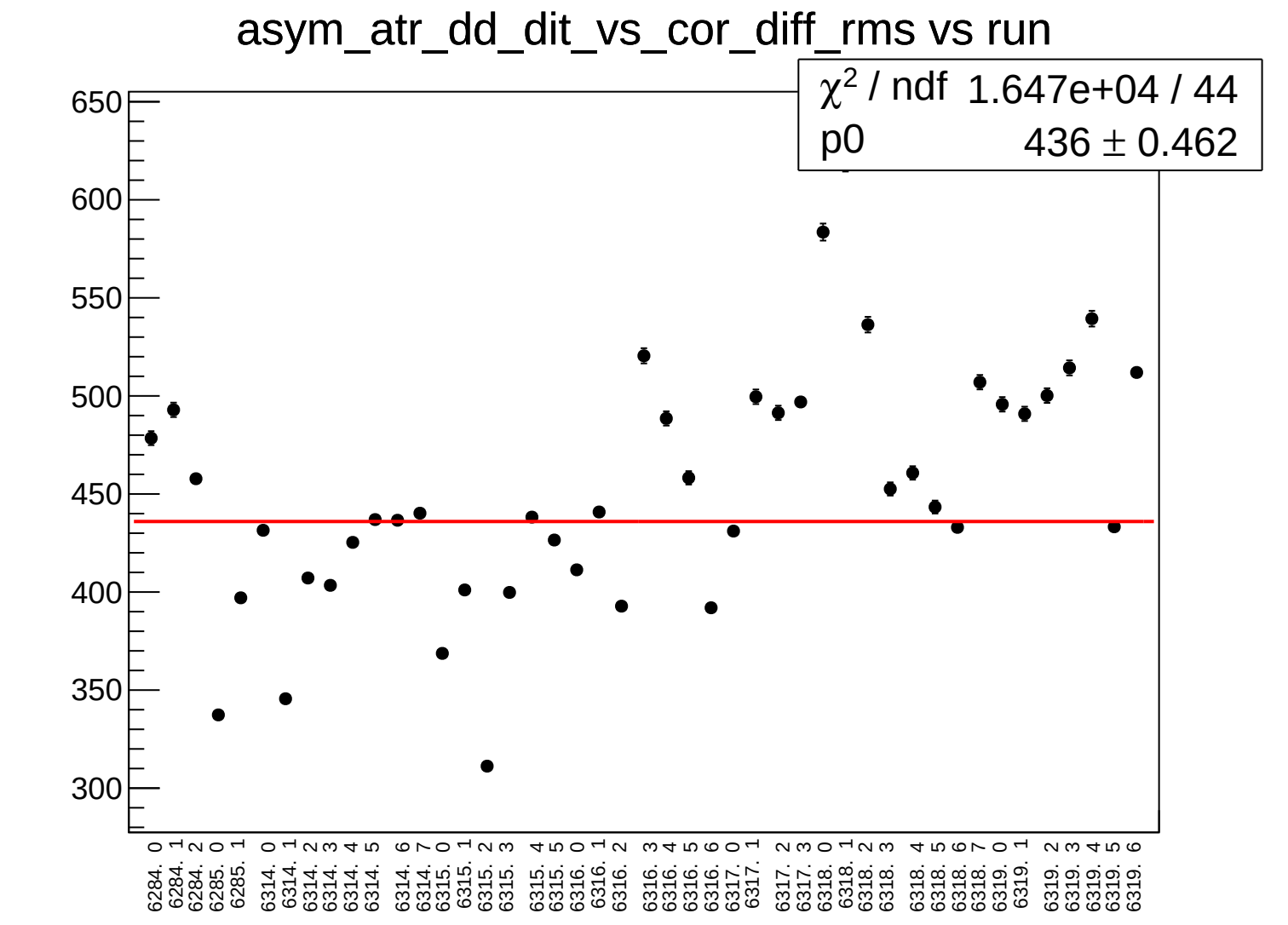
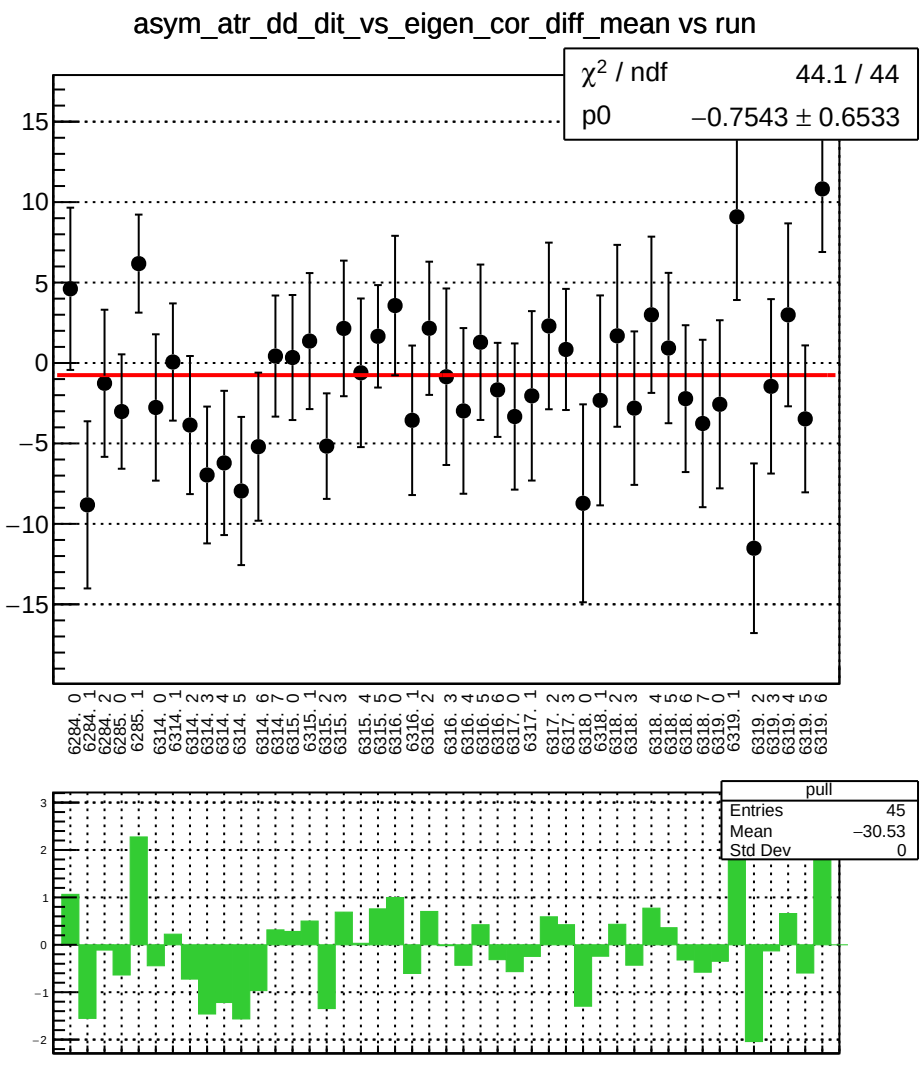
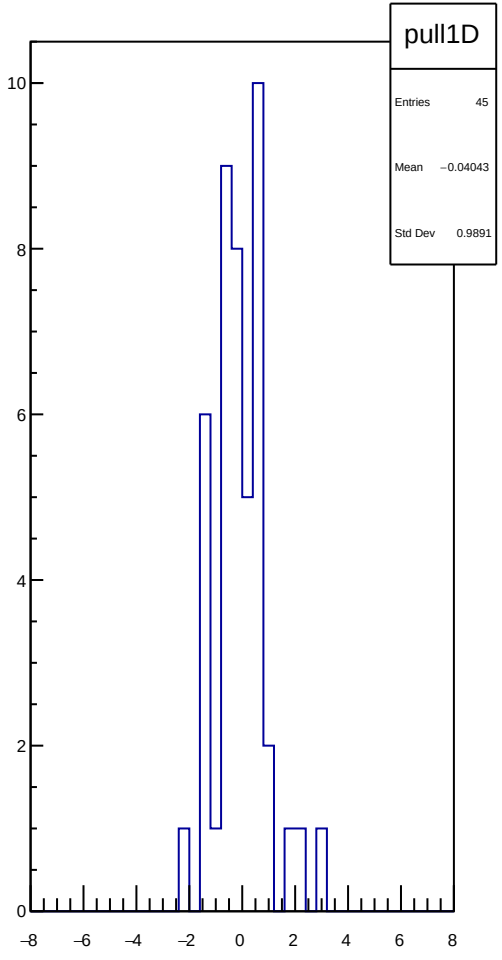
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

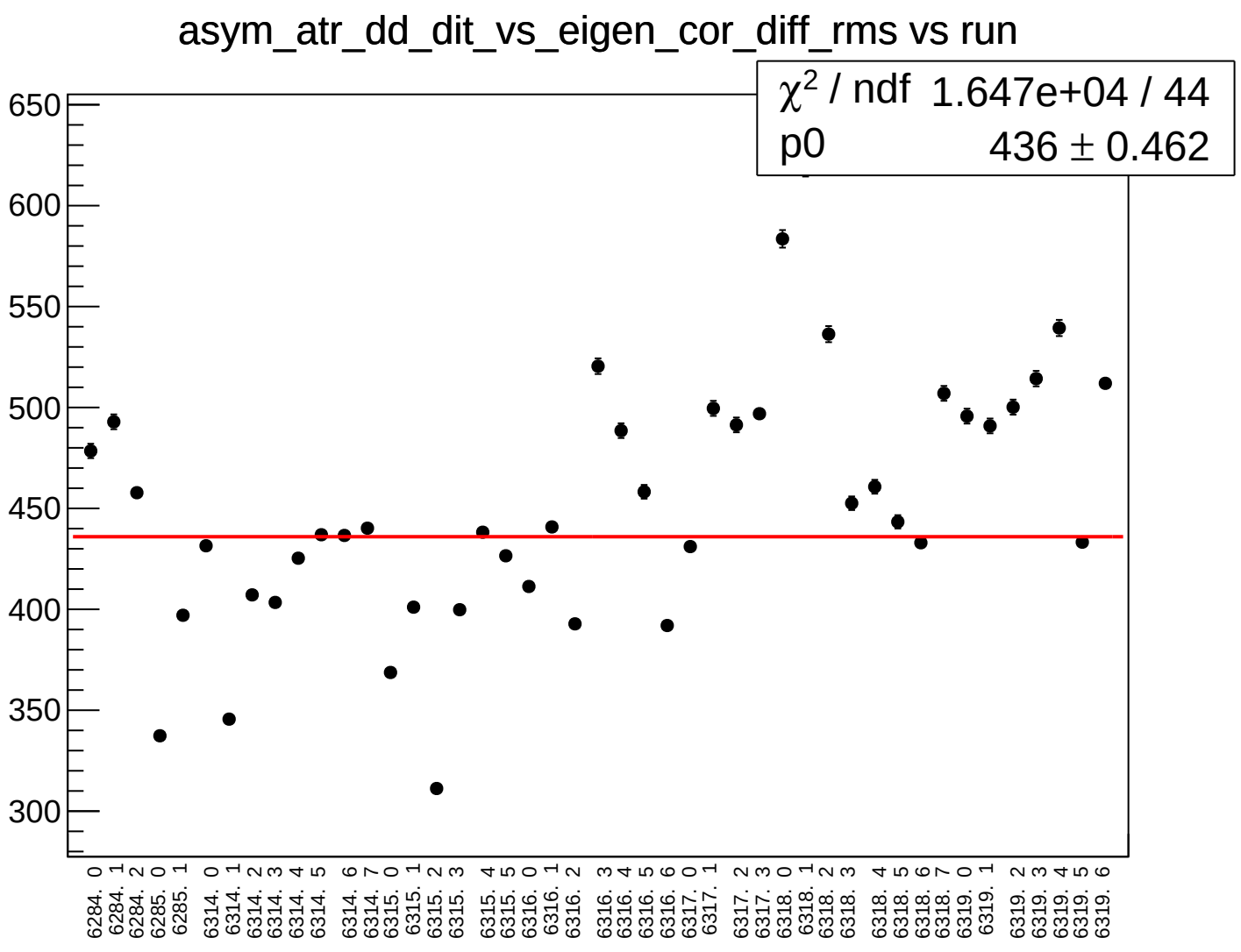

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.7543 ± 0.6533
pull
Entries 45
Mean −30.53
Std Dev 0


pull1D
Entries 45
Mean −0.04043
Std Dev 0.9891


asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 44
p0 436 ± 0.462
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.7543 ± 0.6533
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −30.53
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04043
Std Dev 0.9891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 44
p0 436 ± 0.462
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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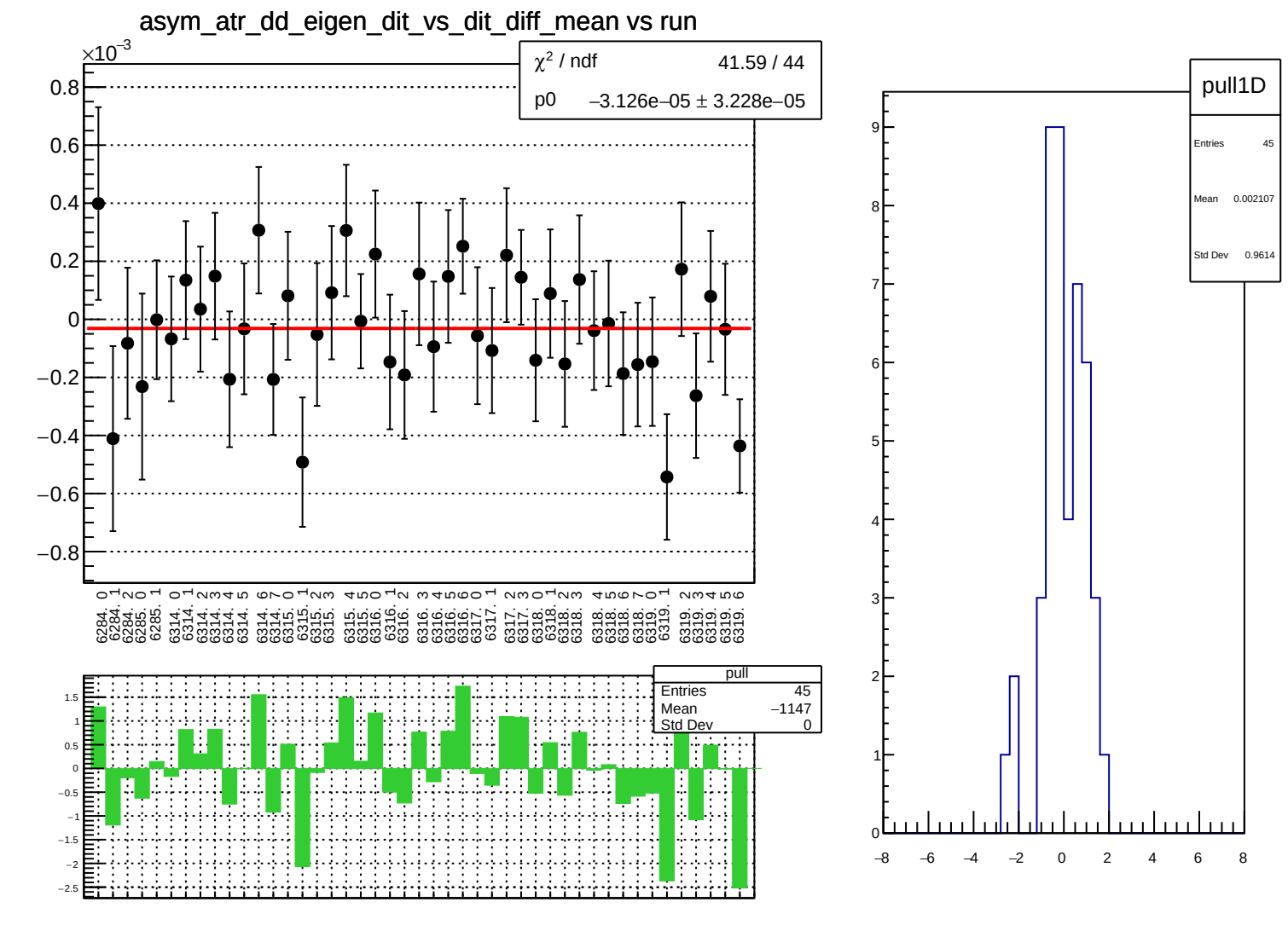
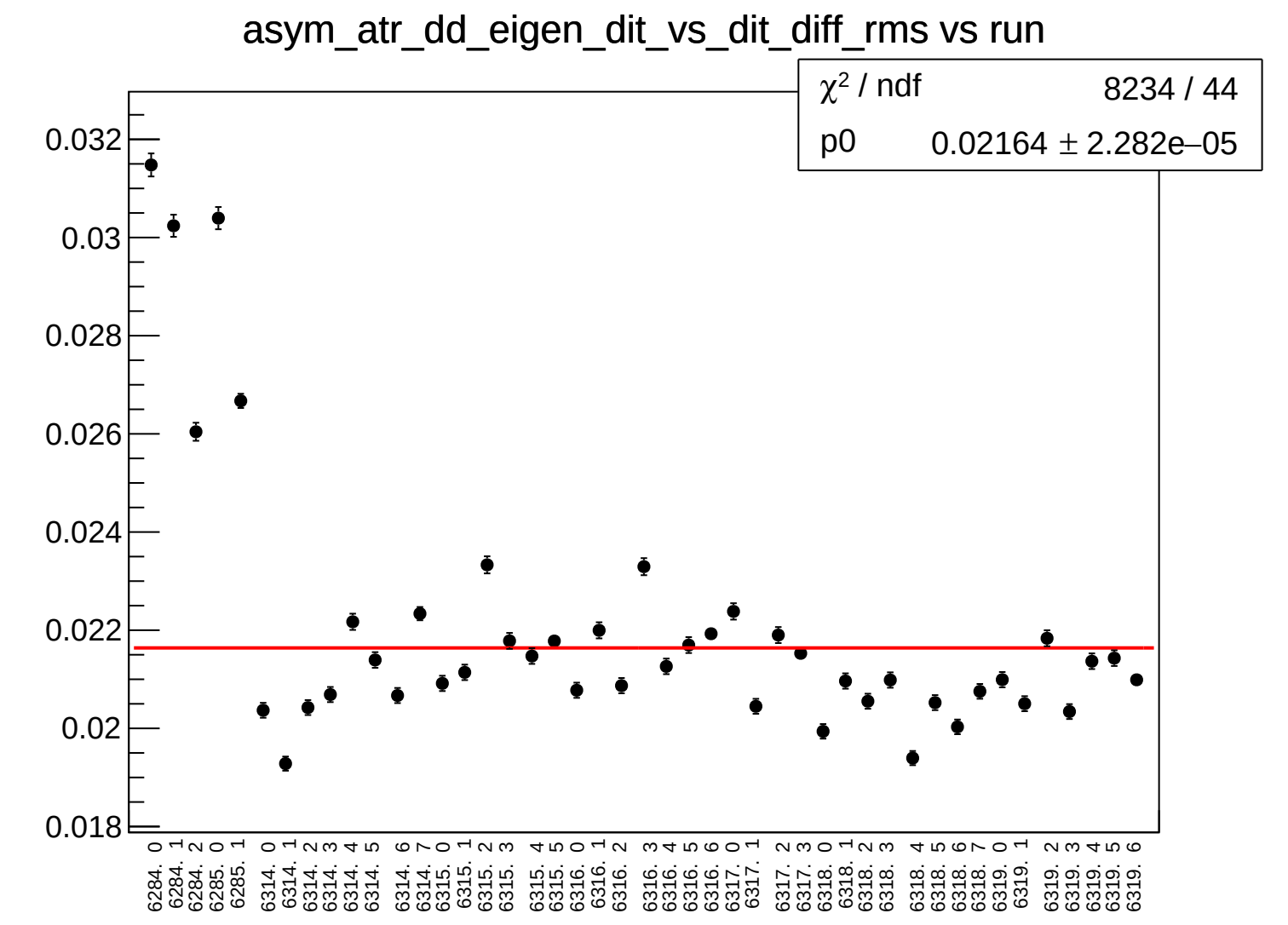
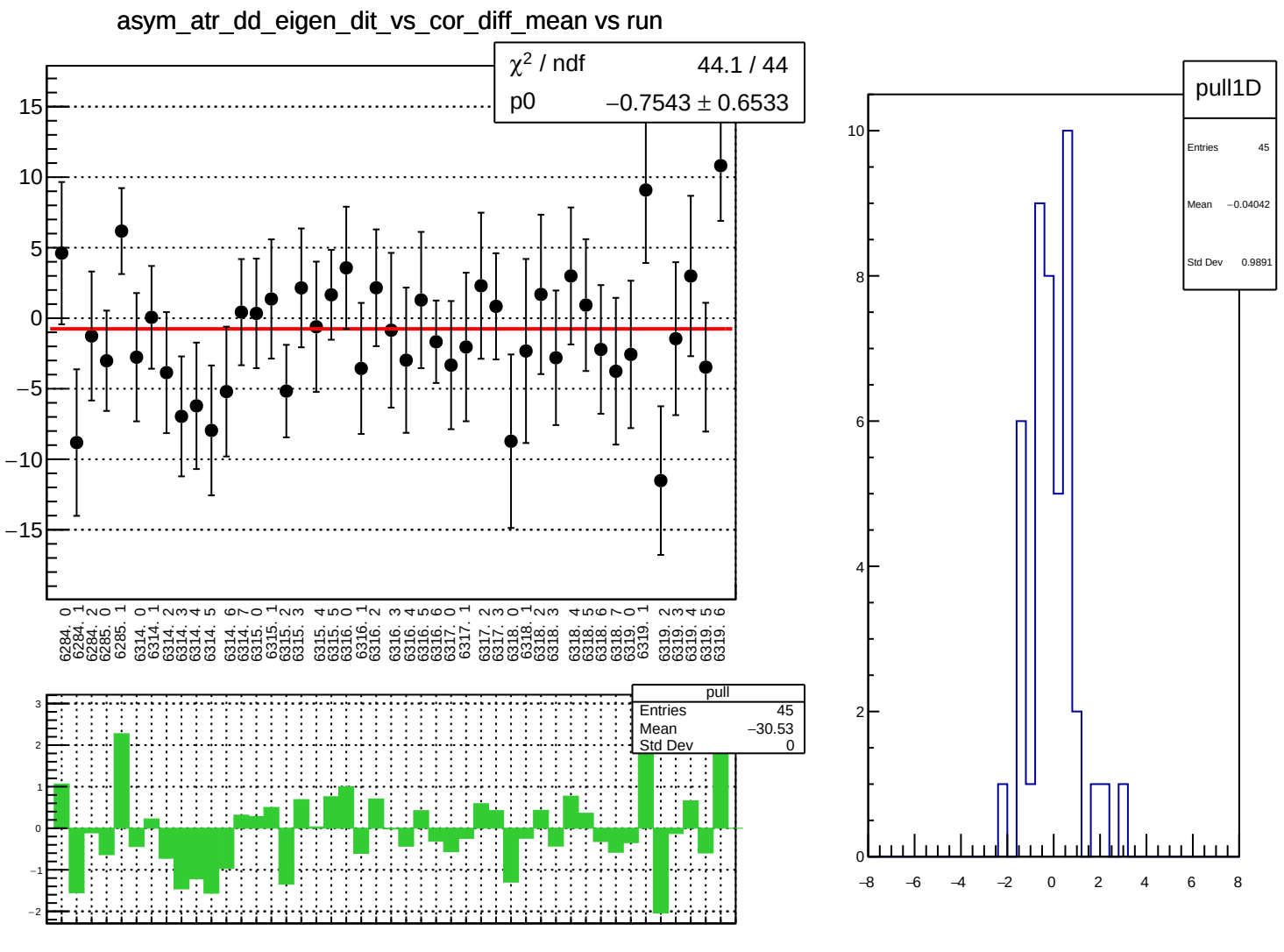
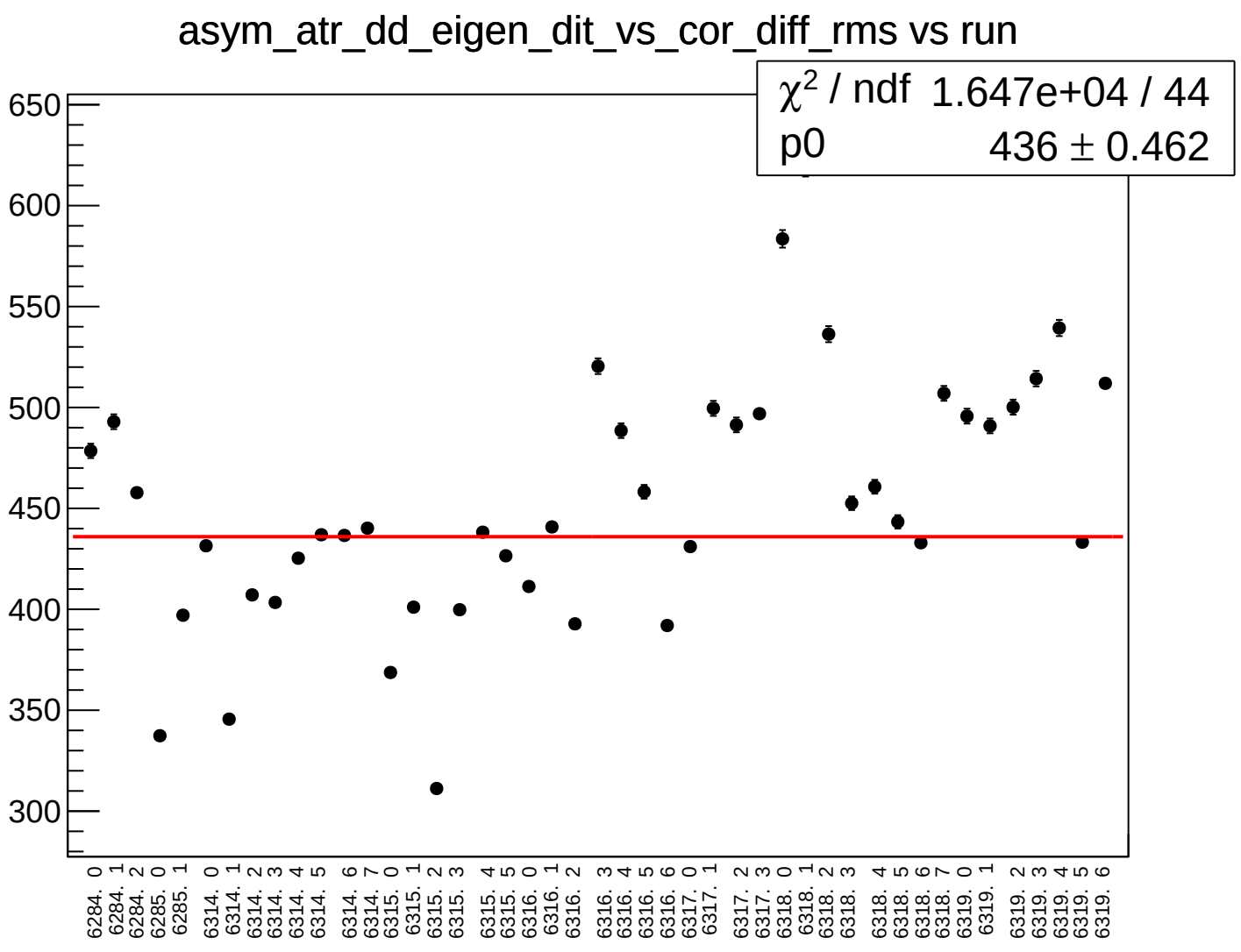
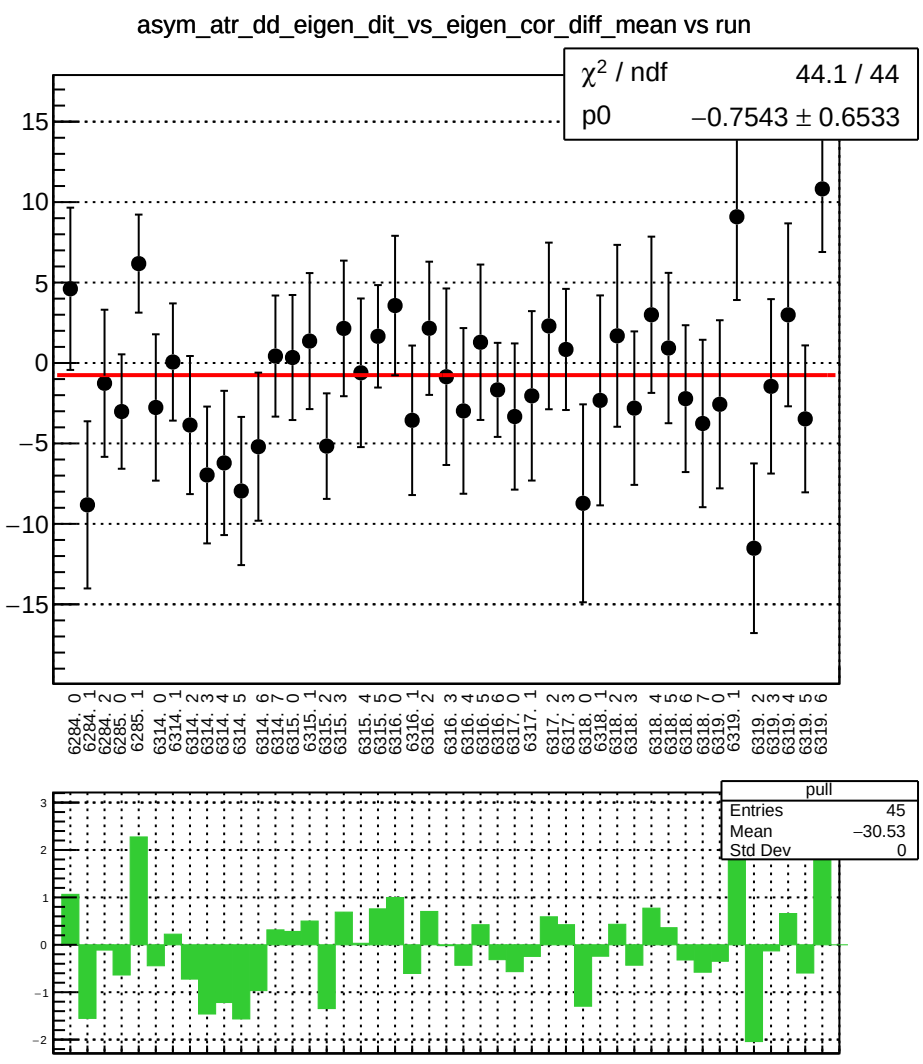
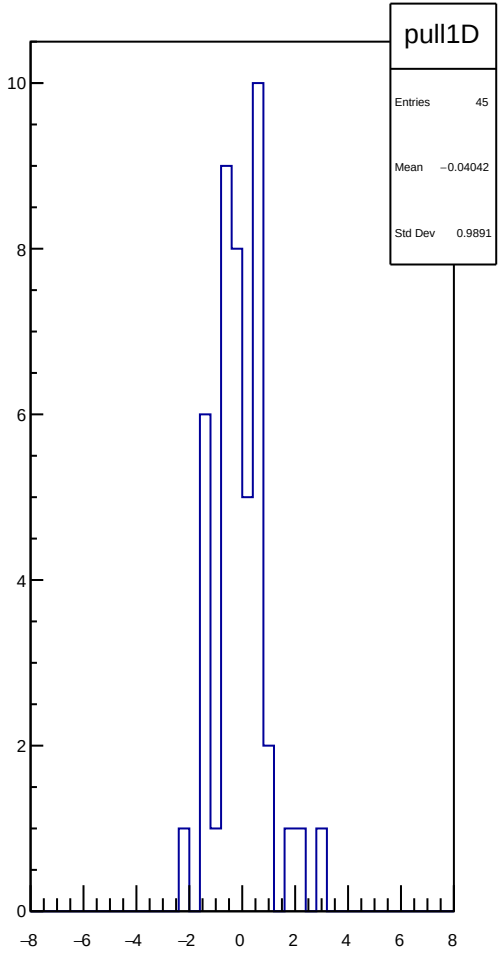

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.59 / 44
p0 −3.126e−05 ± 3.228e−05
pull
Entries 45
Mean −1147
Std Dev 0
pull1D
Entries 45
Mean 0.002107
Std Dev 0.9614

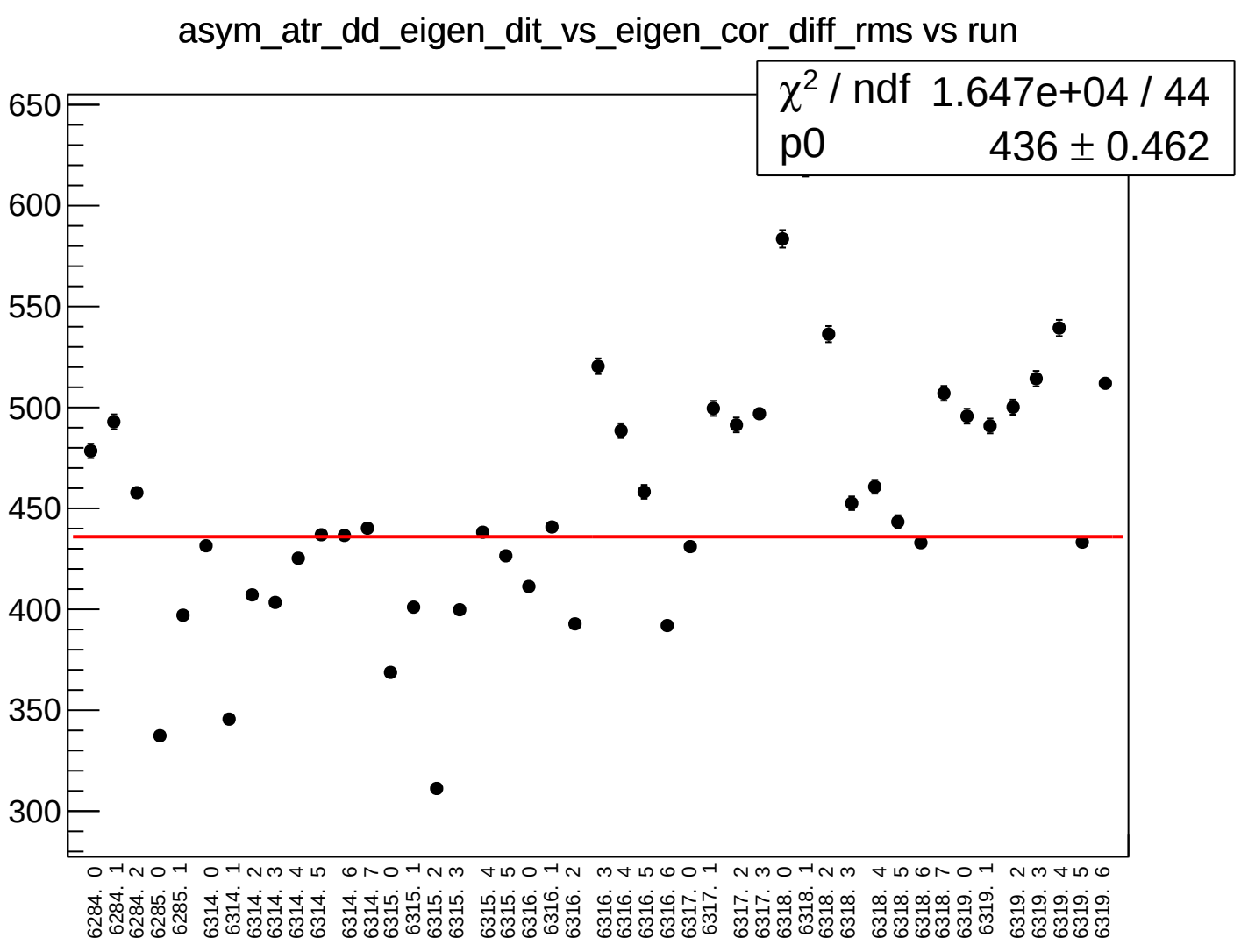

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8234 / 44
p0 0.02164 ± 2.282e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

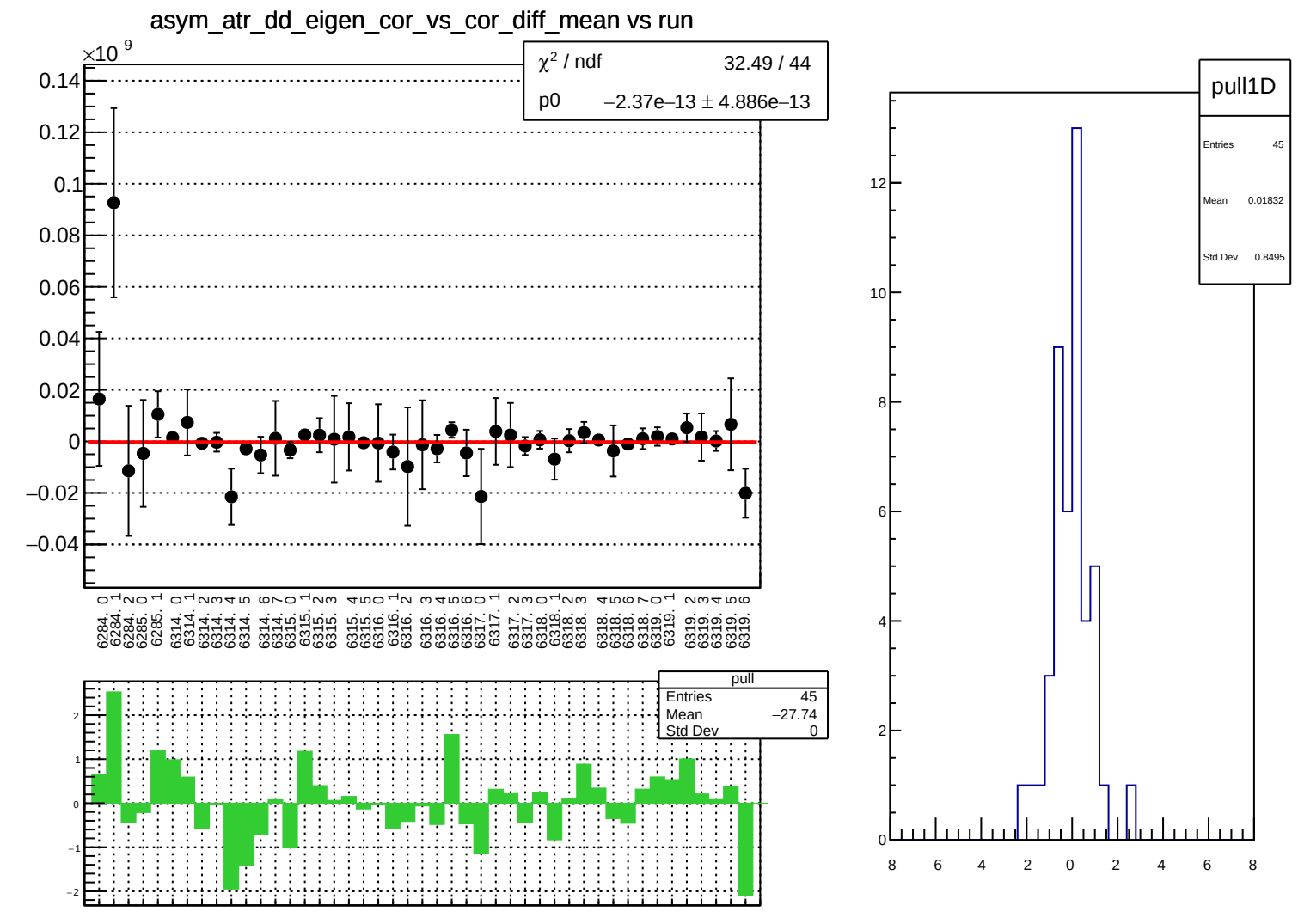

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.7543 ± 0.6533
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −30.53
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04042
Std Dev 0.9891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

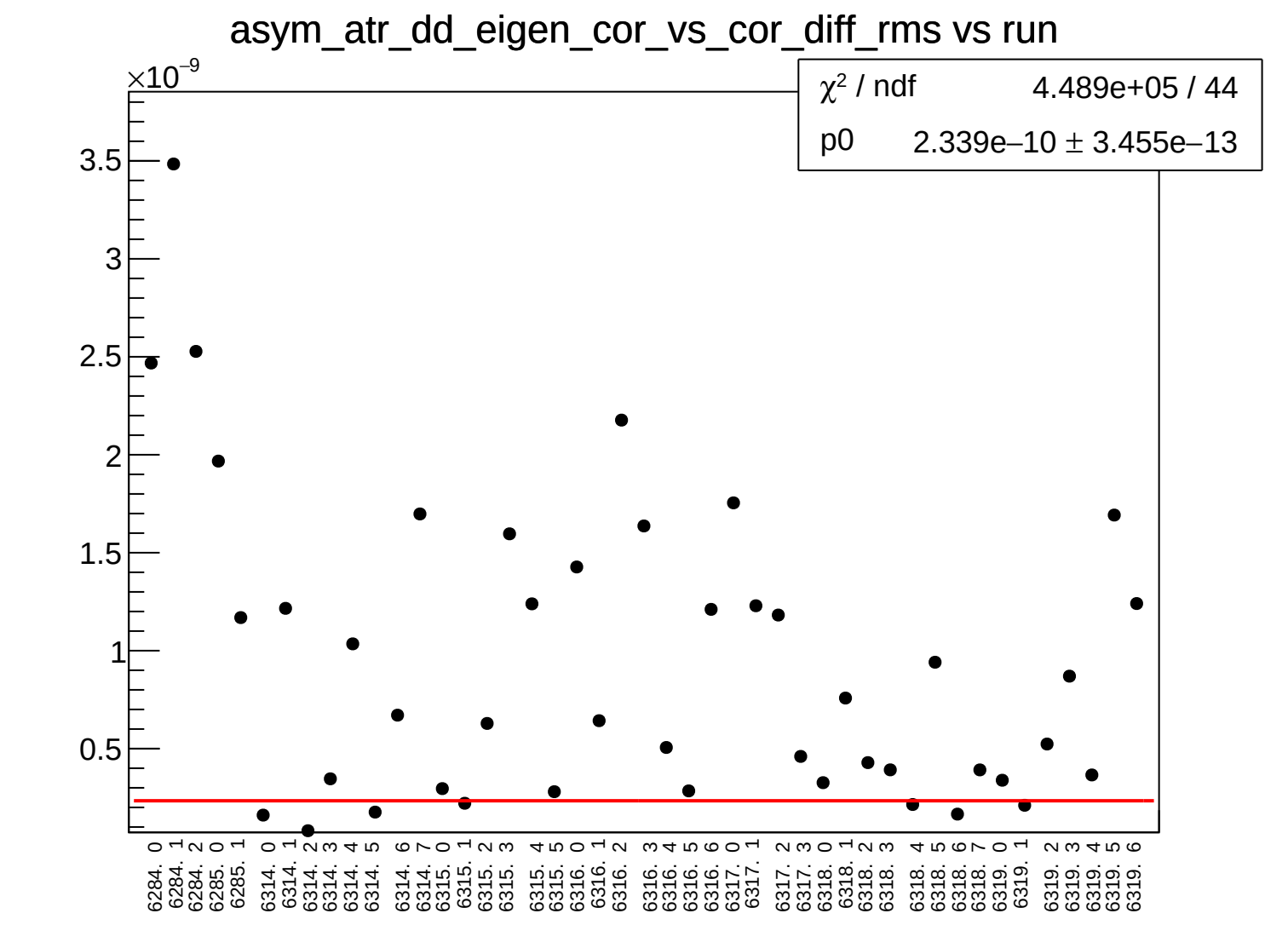

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 44
p0 436 ± 0.462
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

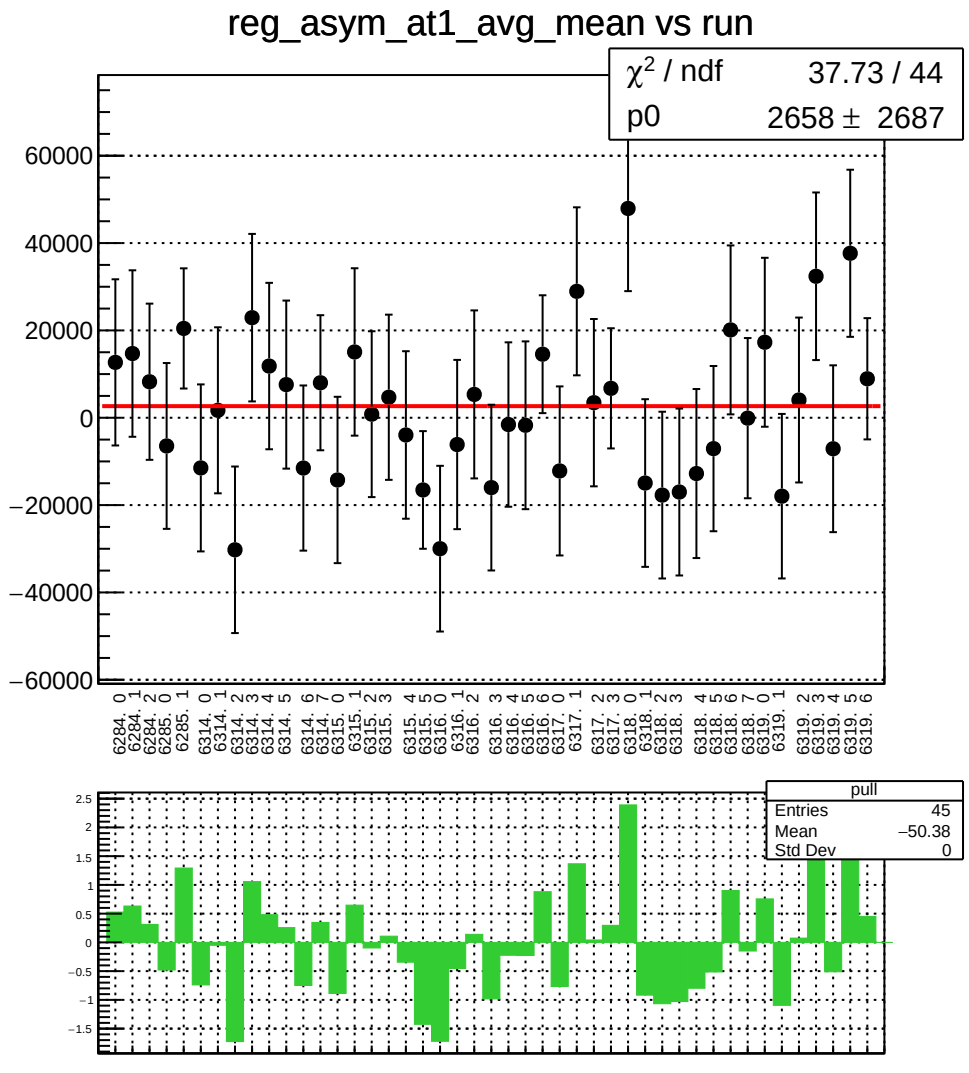

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.7543 ± 0.6533
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −30.53
Std Dev 0
3
2
1
0
−1
−2

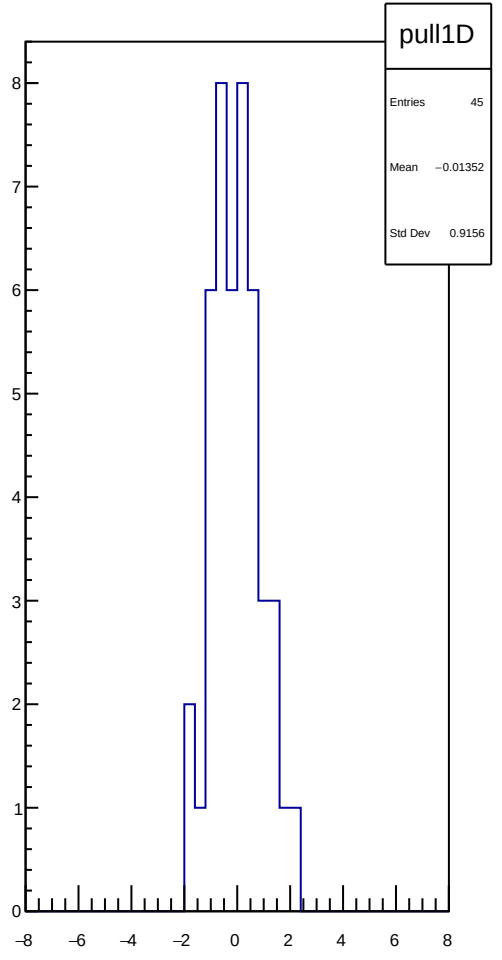

pull1D
Entries 45
Mean −0.04042
Std Dev 0.9891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

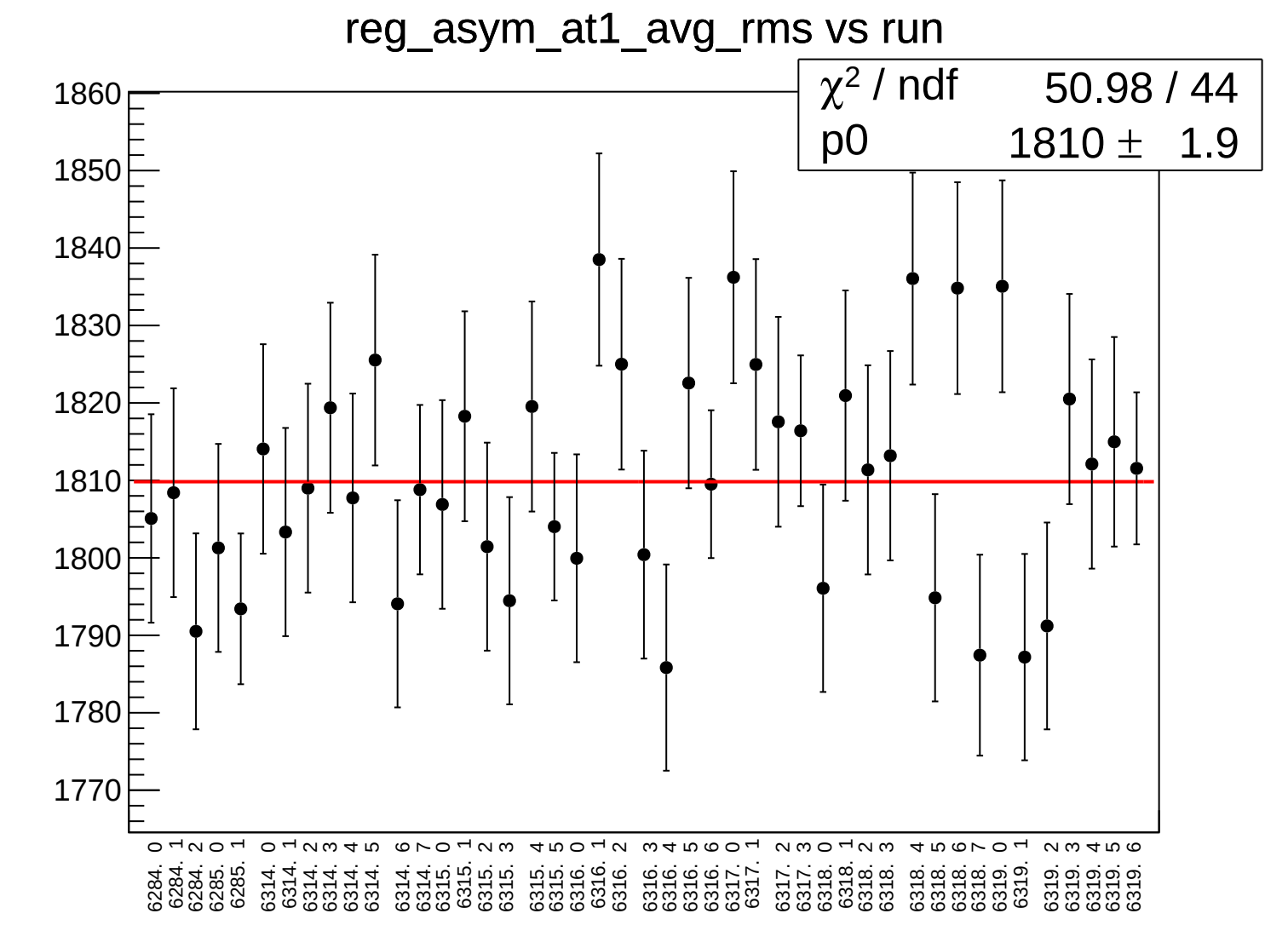

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.647e+04 / 44
p0 436 ± 0.462
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

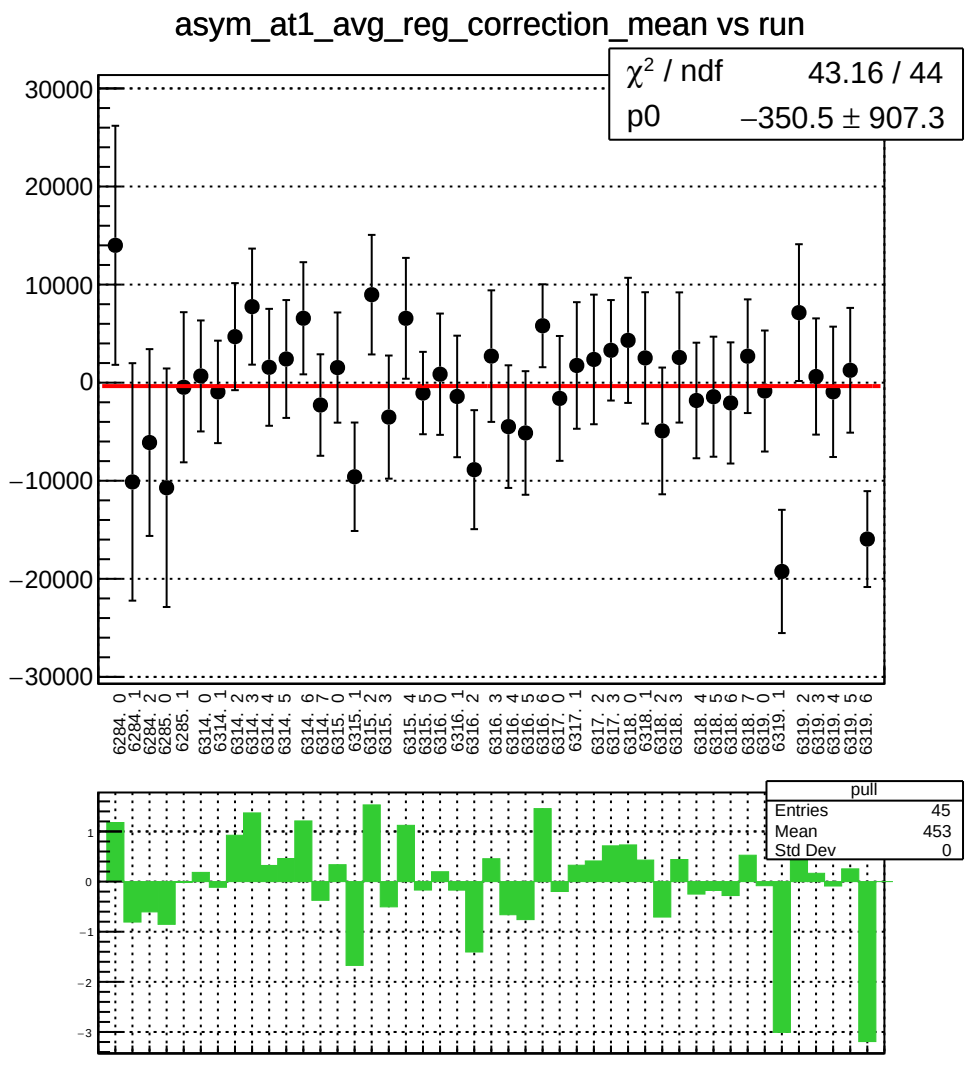

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 32.49 / 44
p0 −2.37e−13 ± 4.886e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −27.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01832
Std Dev 0.8495
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

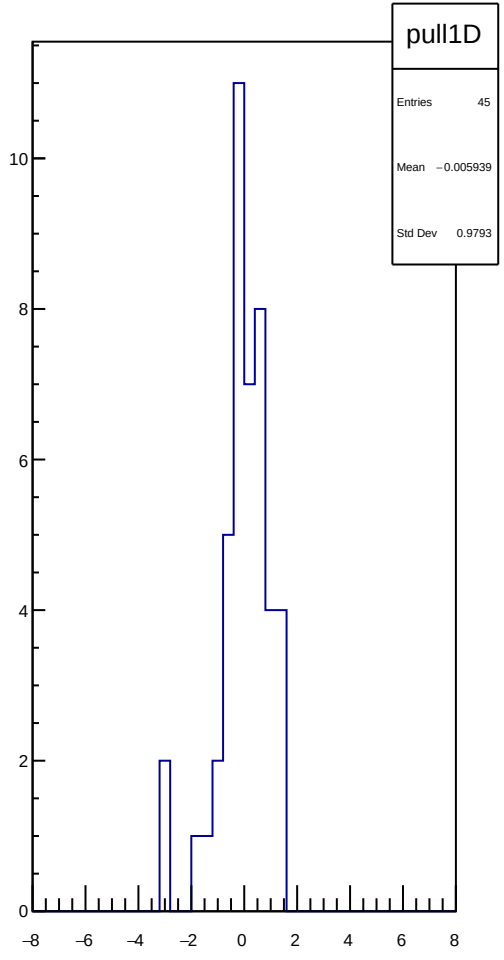

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.489e+05 / 44
p0 2.339e−10 ± 3.455e−13
3.5
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

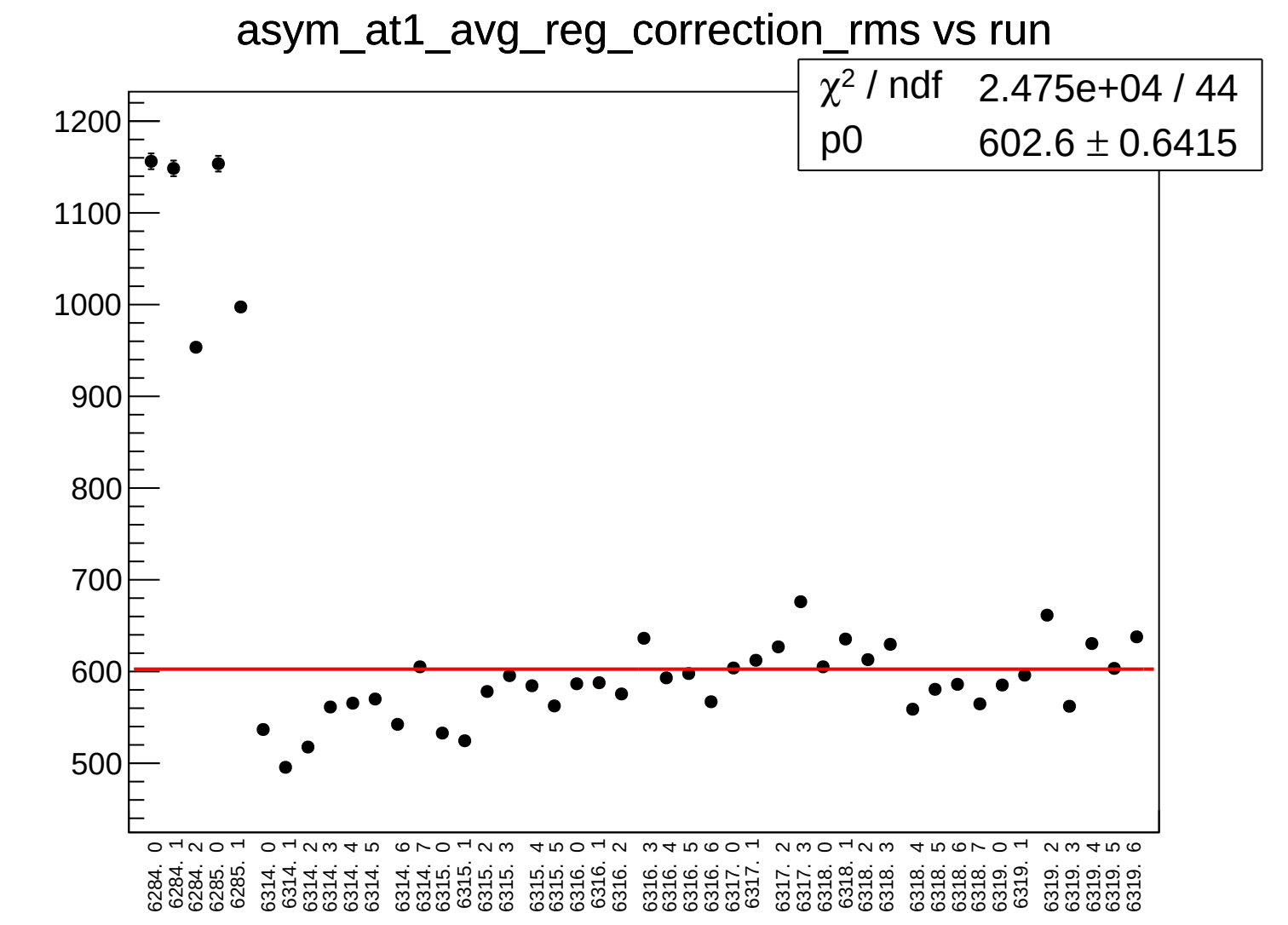

reg_asym_at1_avg_mean vs run
χ² / ndf 37.73 / 44
p0 2658 ± 2687
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −50.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01352
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 50.98 / 44
p0 1810 ± 1.9
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_reg_correction_mean vs run
χ² / ndf 43.16 / 44
p0 −350.5 ± 907.3
pull
Entries 45
Mean 453
Std Dev 0


pull1D
Entries 45
Mean −0.005939
Std Dev 0.9793


asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.475e+04 / 44
p0 602.6 ± 0.6415
1200
1100
1000
900
800
700
600
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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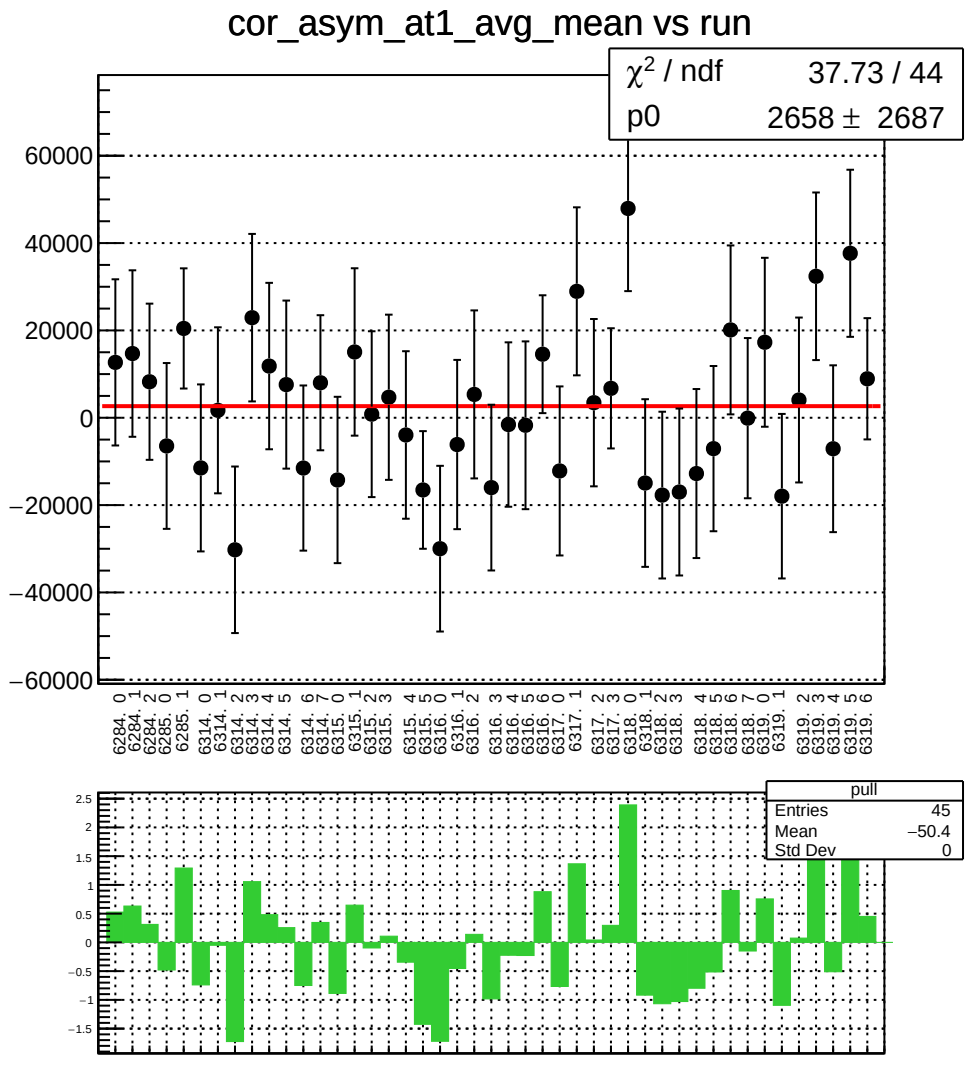
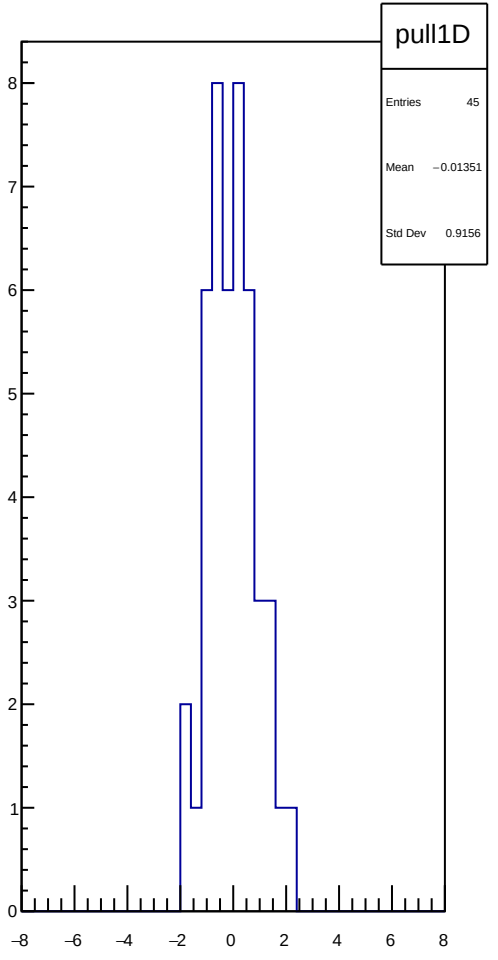
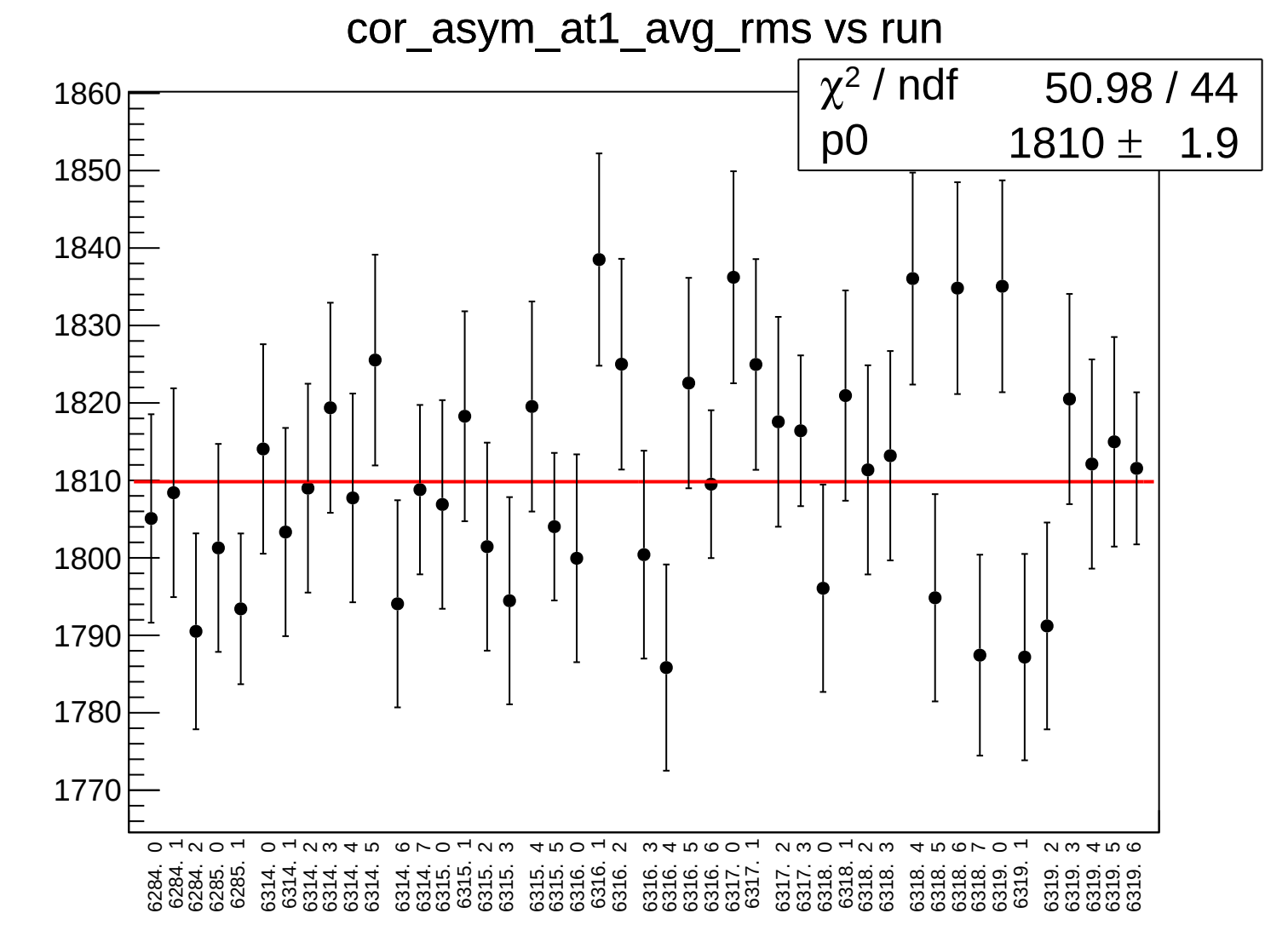
6319. 5
6319. 6


cor_asym_at1_avg_mean vs run
χ² / ndf 37.73 / 44
p0 2658 ± 2687
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −50.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01351
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 50.98 / 44
p0 1810 ± 1.9
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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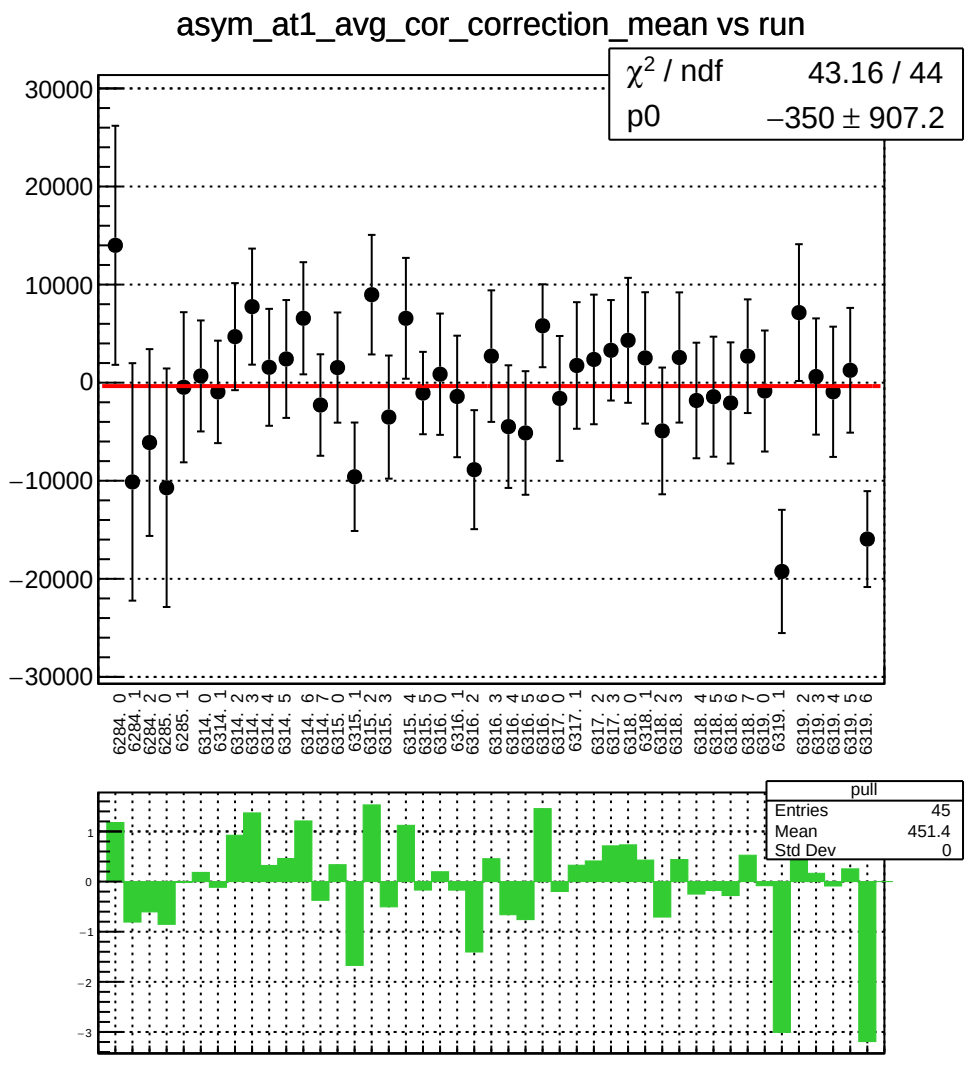
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 43.16 / 44
p0 −350 ± 907.2
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
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6318. 0
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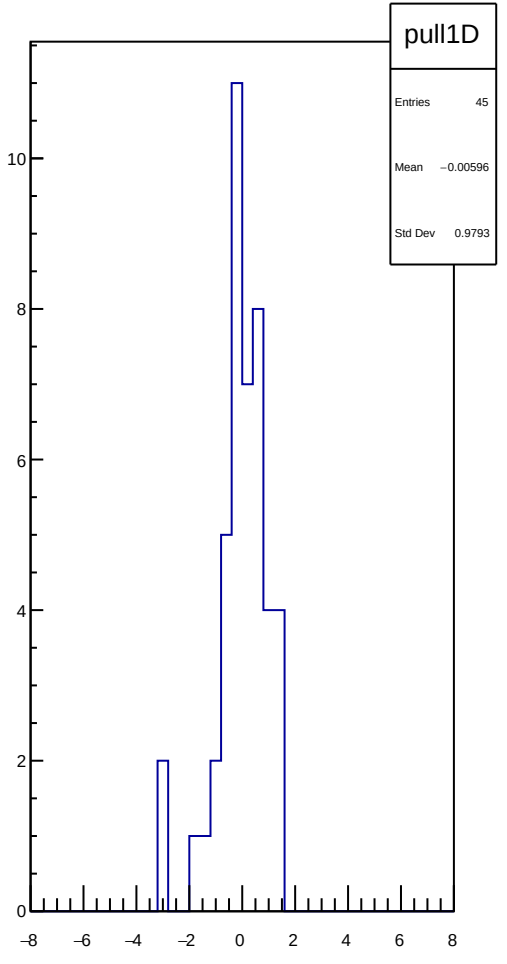
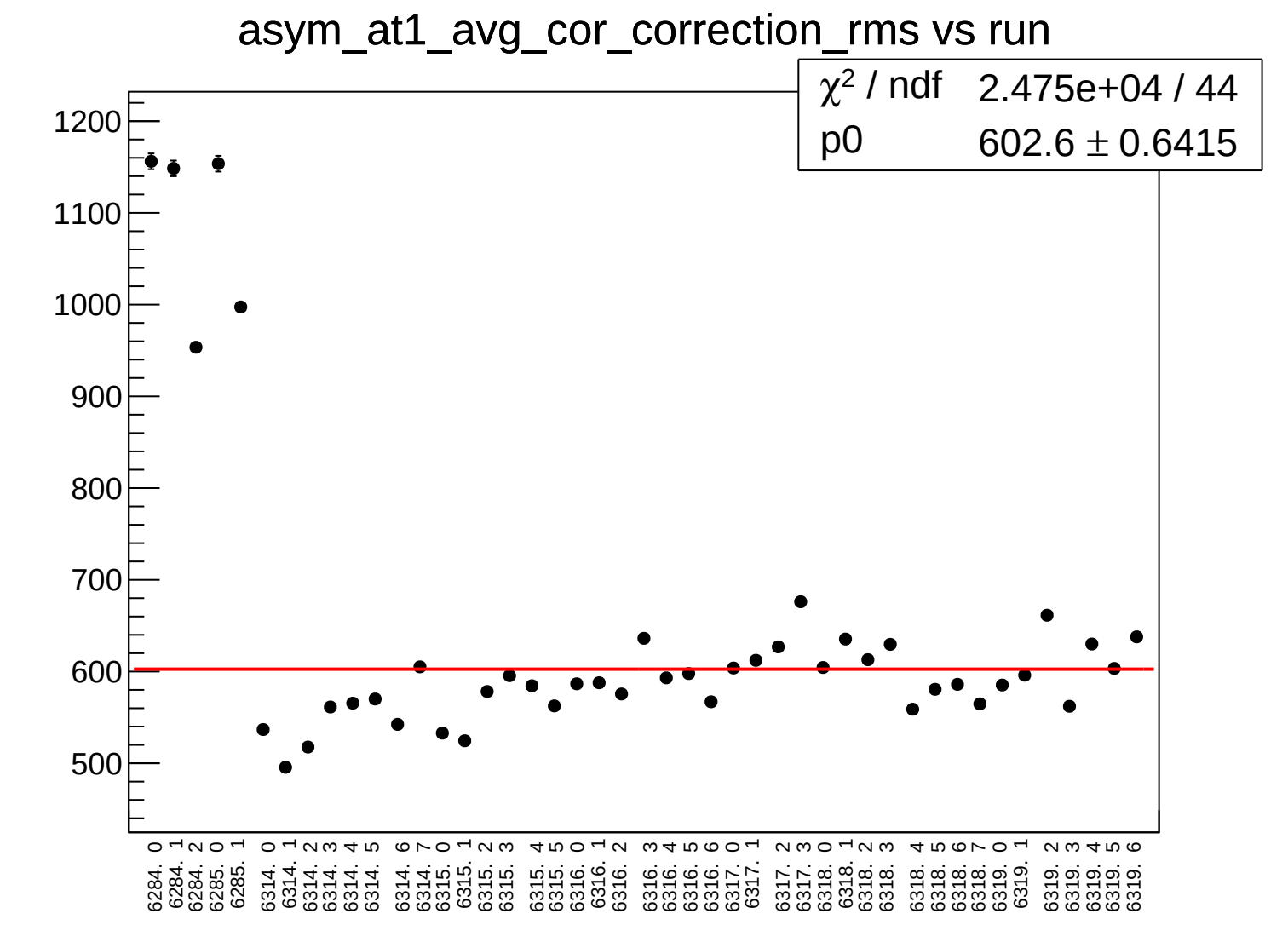
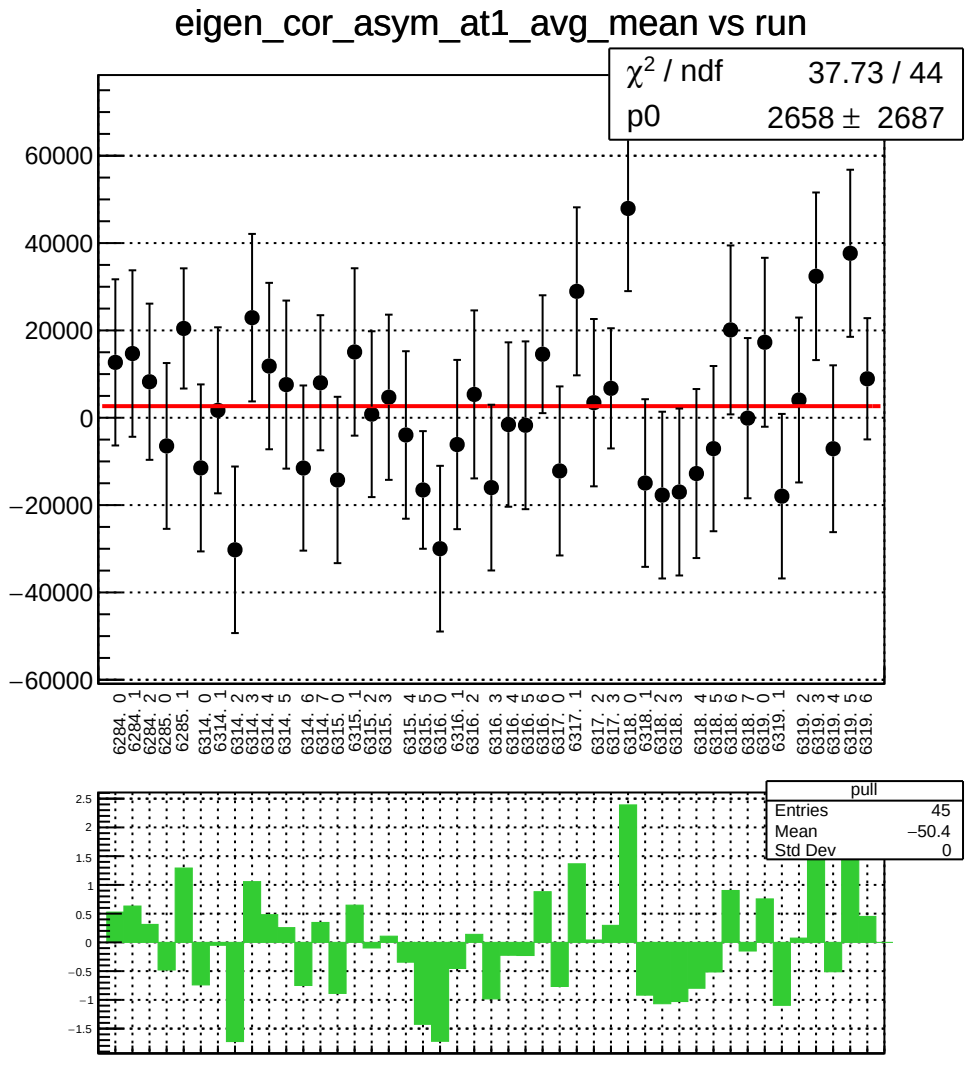
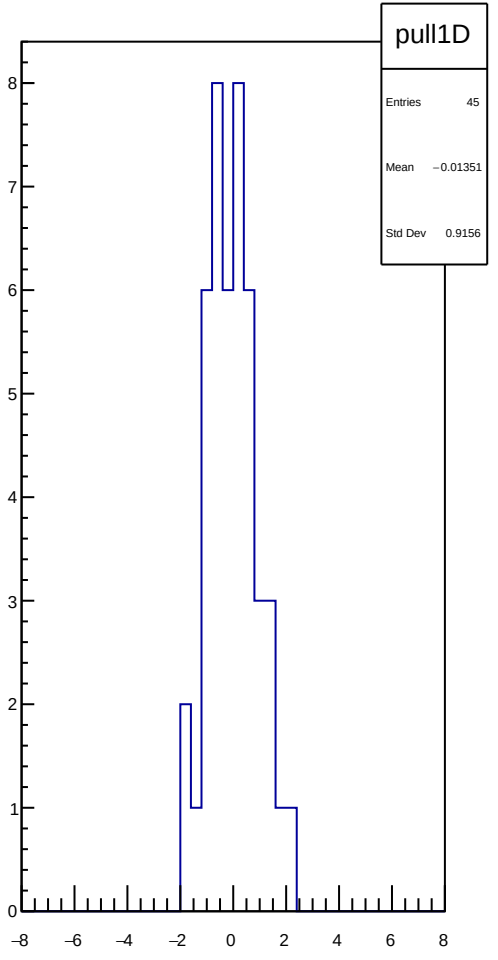
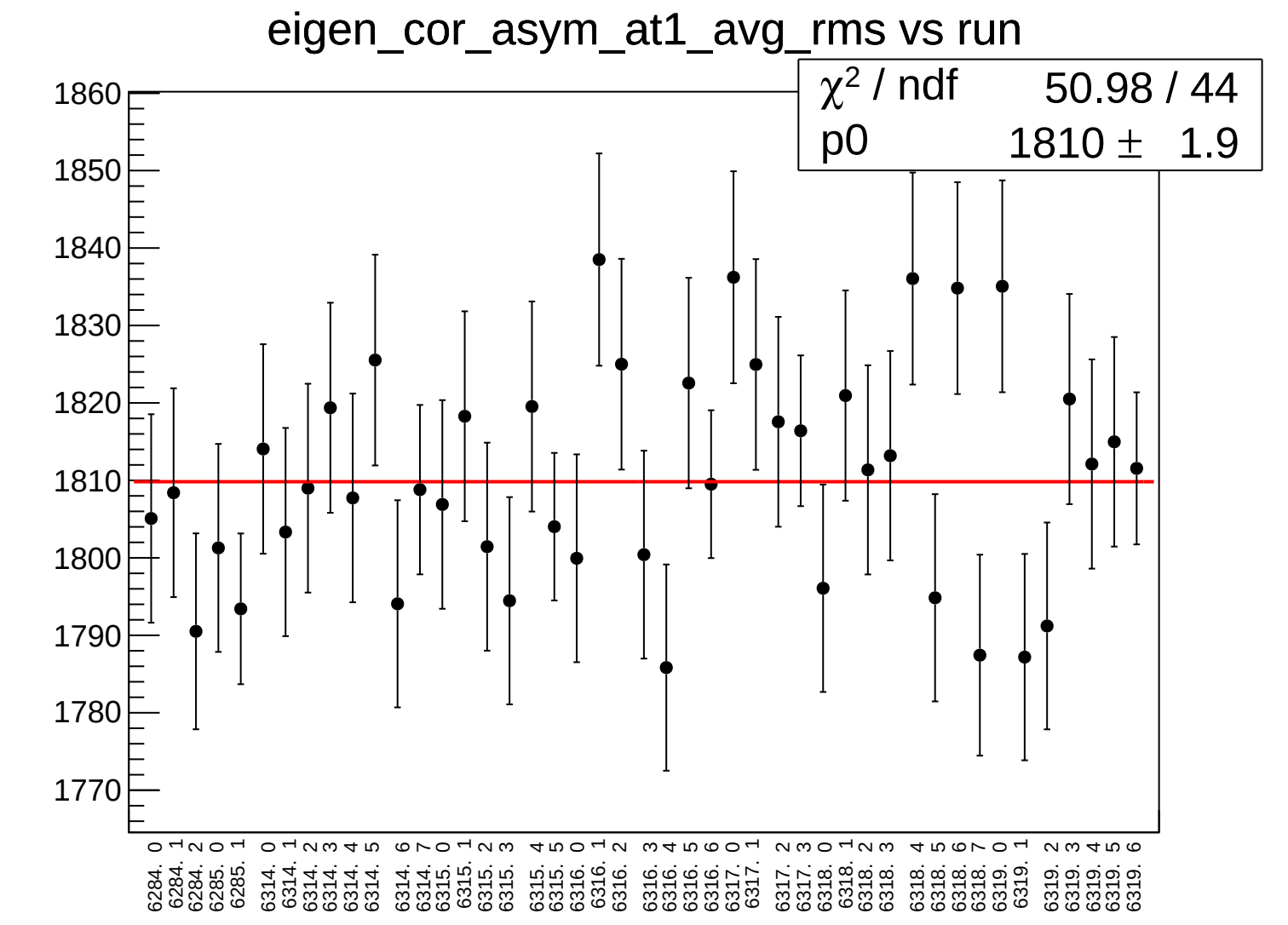
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 451.4
Std Dev 0
1
0
−1
−2
−3

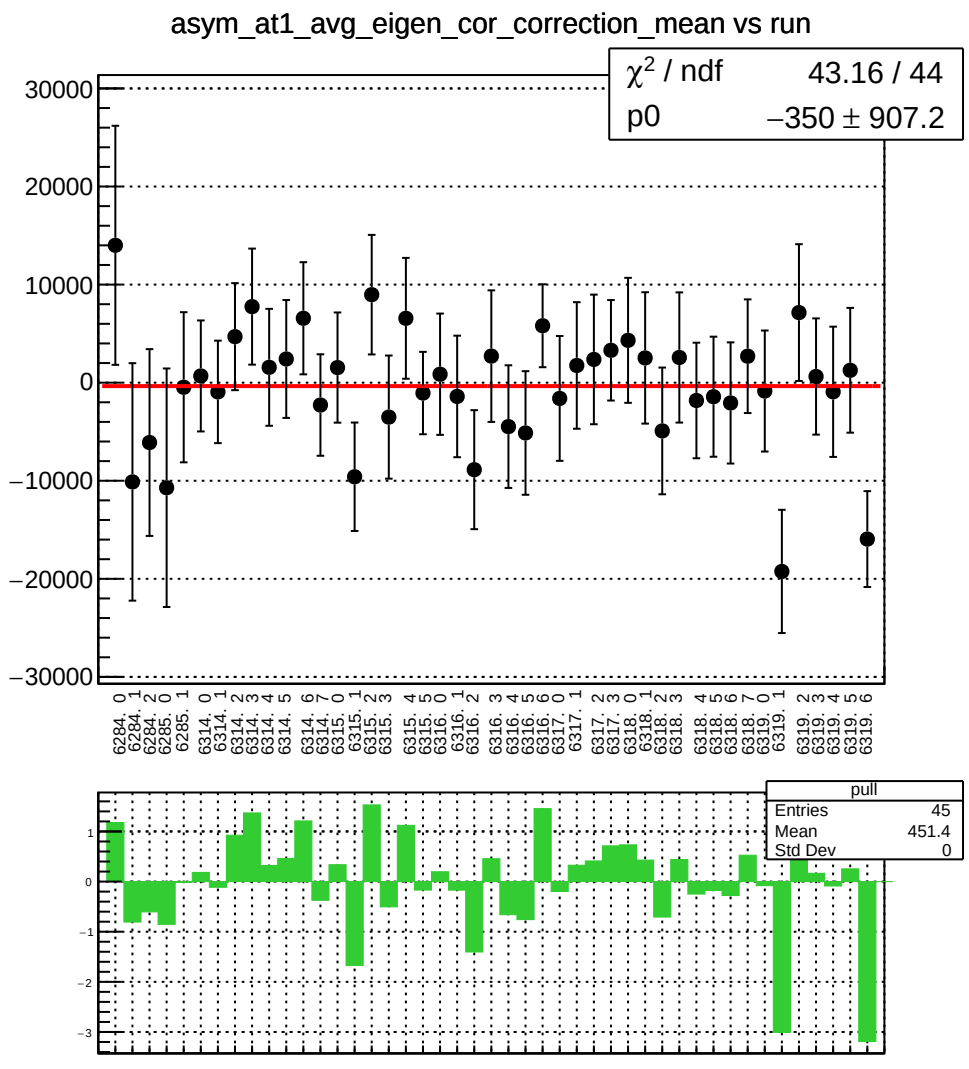

pull1D
Entries 45
Mean −0.00596
Std Dev 0.9793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

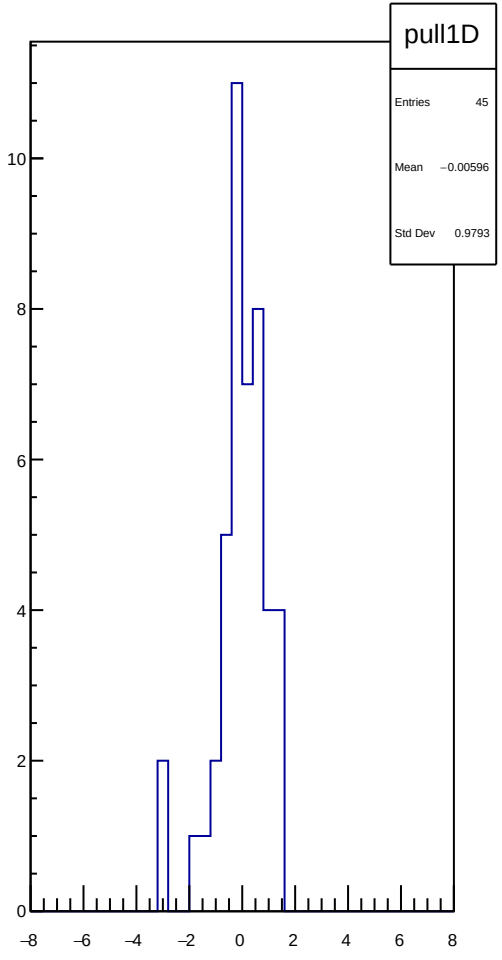

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.475e+04 / 44
p0 602.6 ± 0.6415
1200
1100
1000
900
800
700
600
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

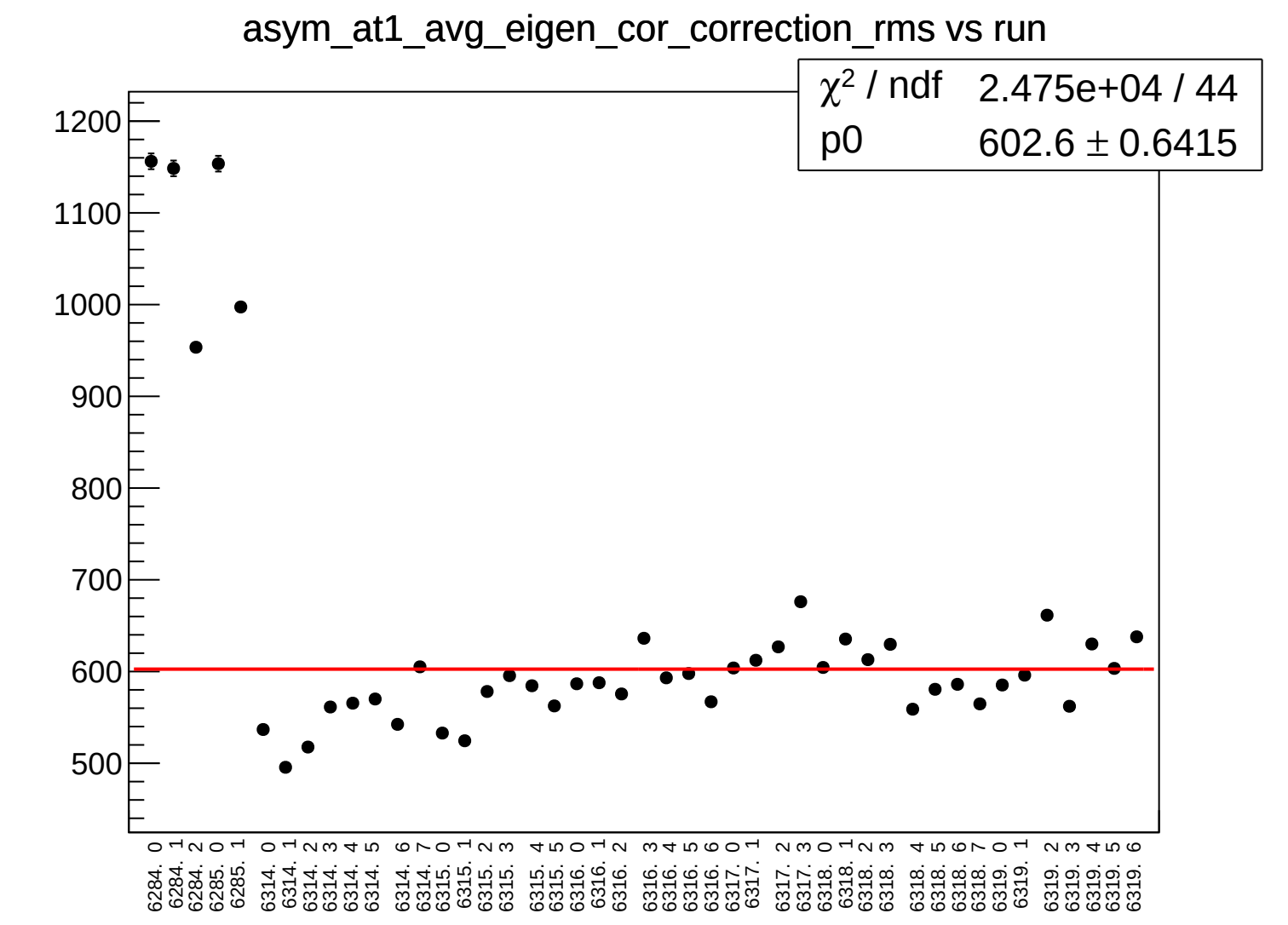

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 37.73 / 44
p0 2658 ± 2687
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −50.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

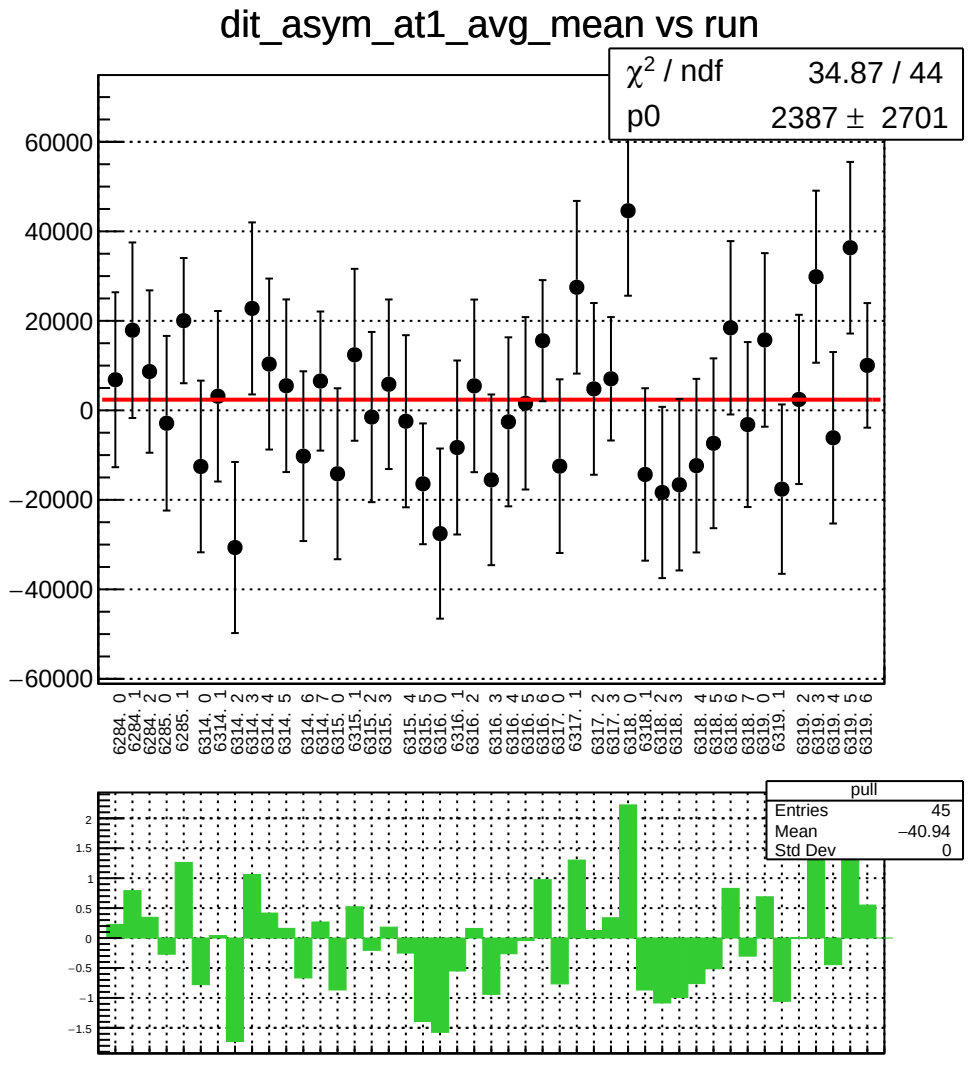

pull1D
Entries 45
Mean −0.01351
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

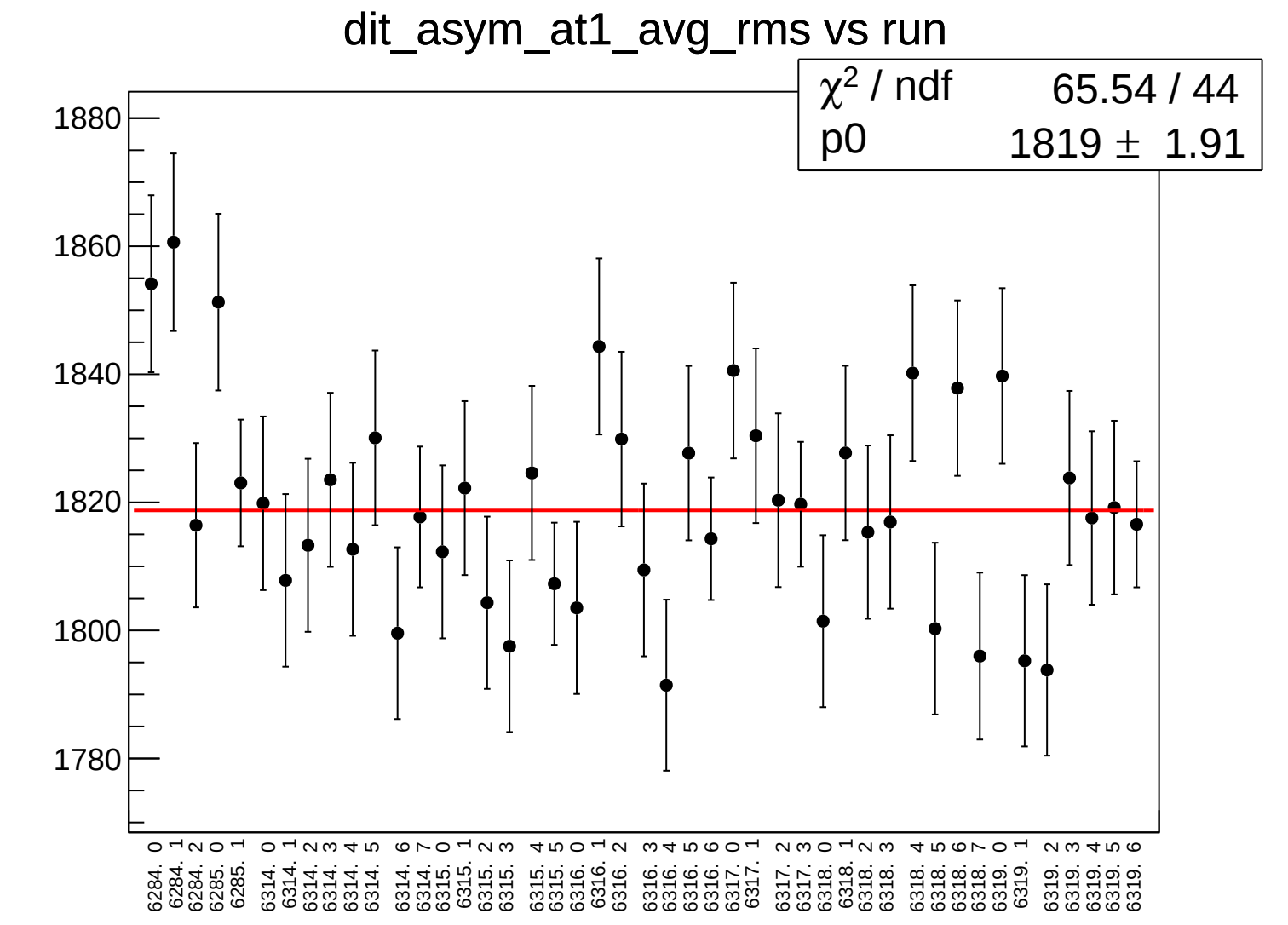

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 50.98 / 44
p0 1810 ± 1.9
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

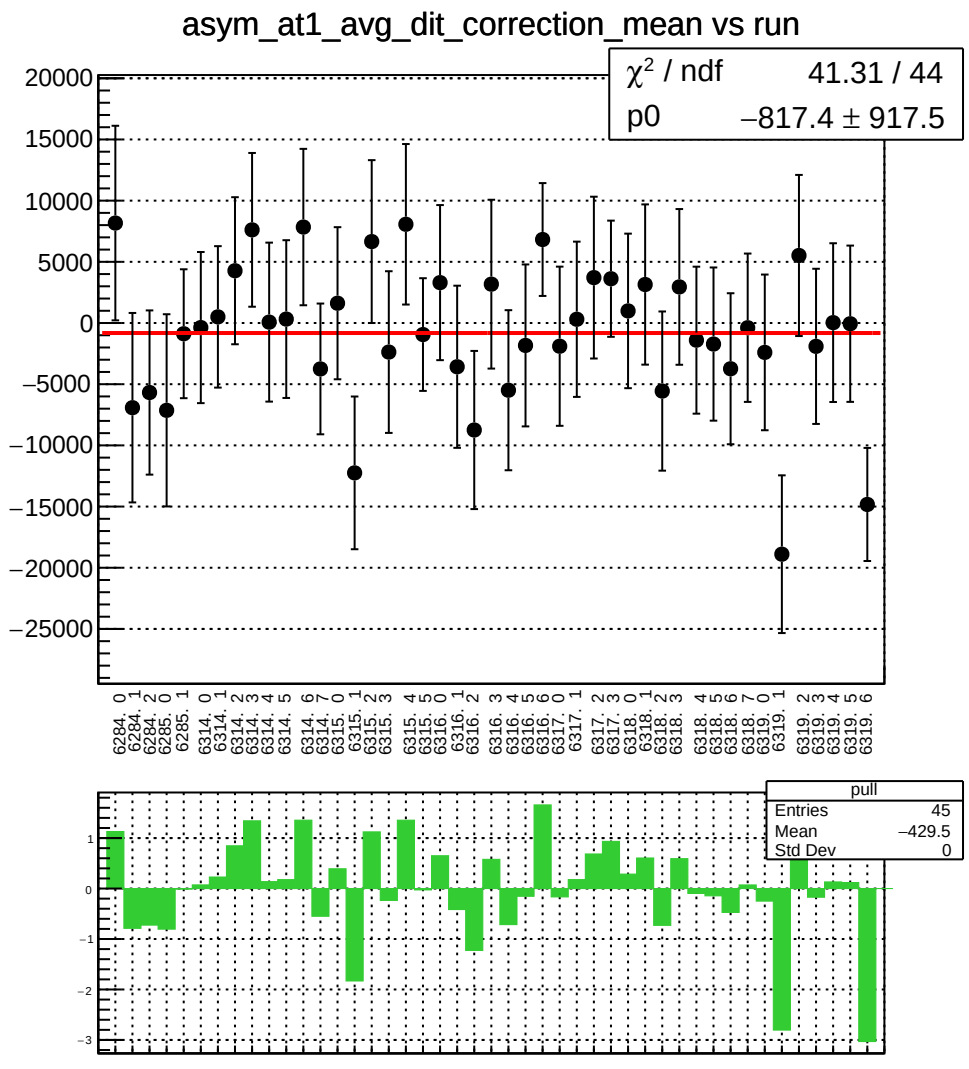

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 43.16 / 44
p0 −350 ± 907.2
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 451.4
Std Dev 0
1
0
−1
−2
−3

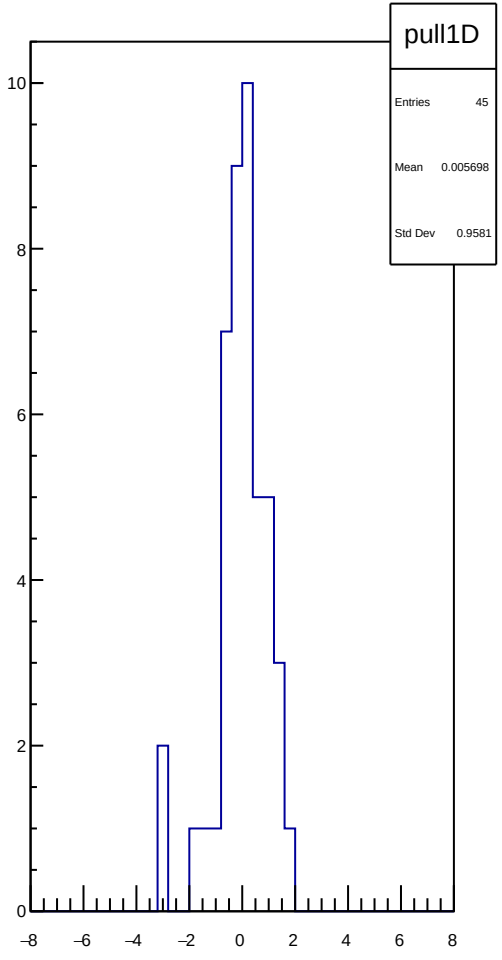

pull1D
Entries 45
Mean −0.00596
Std Dev 0.9793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

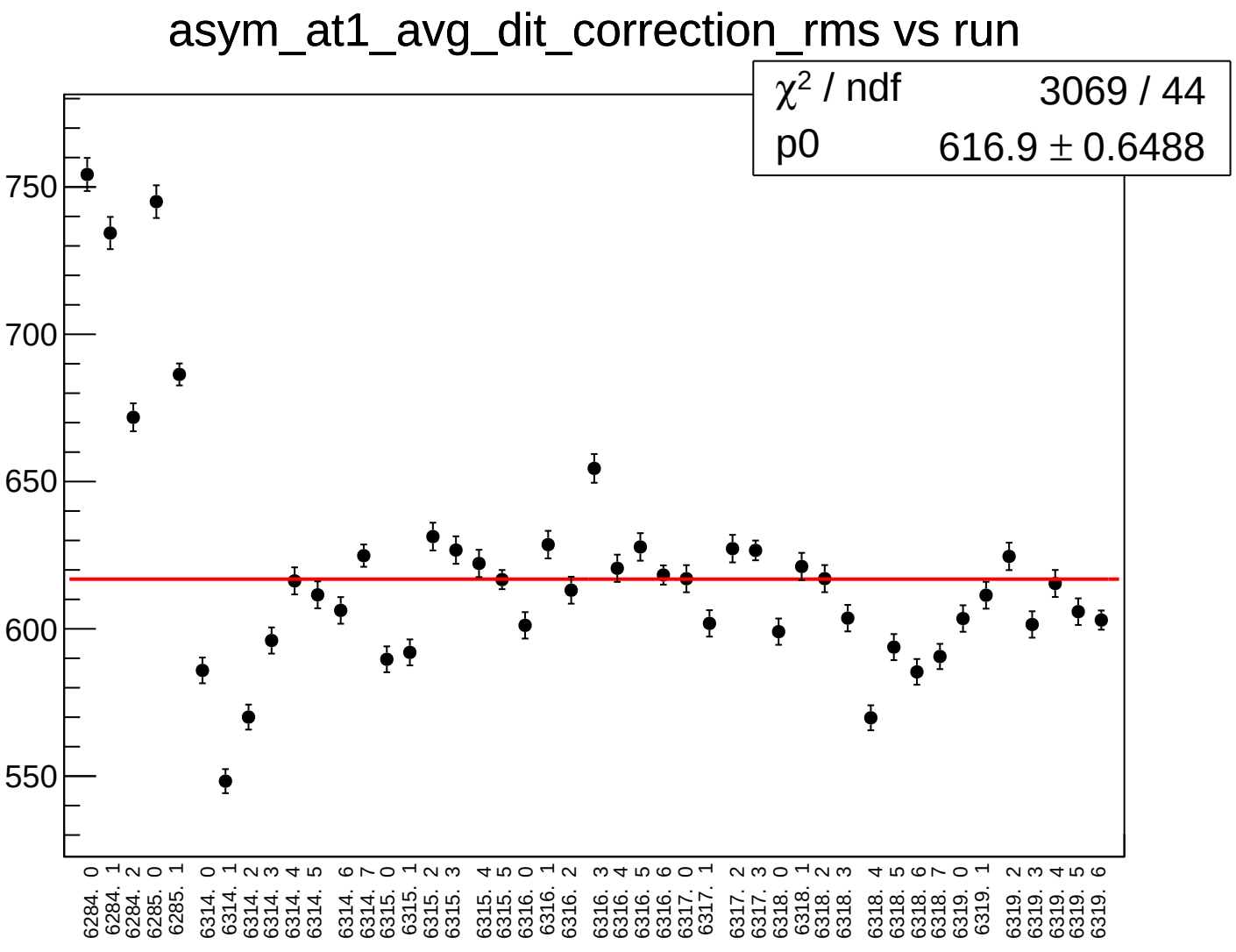

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.475e+04 / 44
p0 602.6 ± 0.6415
1200
1100
1000
900
800
700
600
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_at1_avg_mean vs run
χ² / ndf 34.87 / 44
p0 2387 ± 2701
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −40.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01421
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_rms vs run
χ² / ndf 65.54 / 44
p0 1819 ± 1.91
1880
1860
1840
1820
1800
1780
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_dit_correction_mean vs run
χ² / ndf 41.31 / 44
p0 −817.4 ± 917.5
pull
Entries 45
Mean −429.5
Std Dev 0


pull1D
Entries 45
Mean 0.005698
Std Dev 0.9581


asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3069 / 44
p0 616.9 ± 0.6488
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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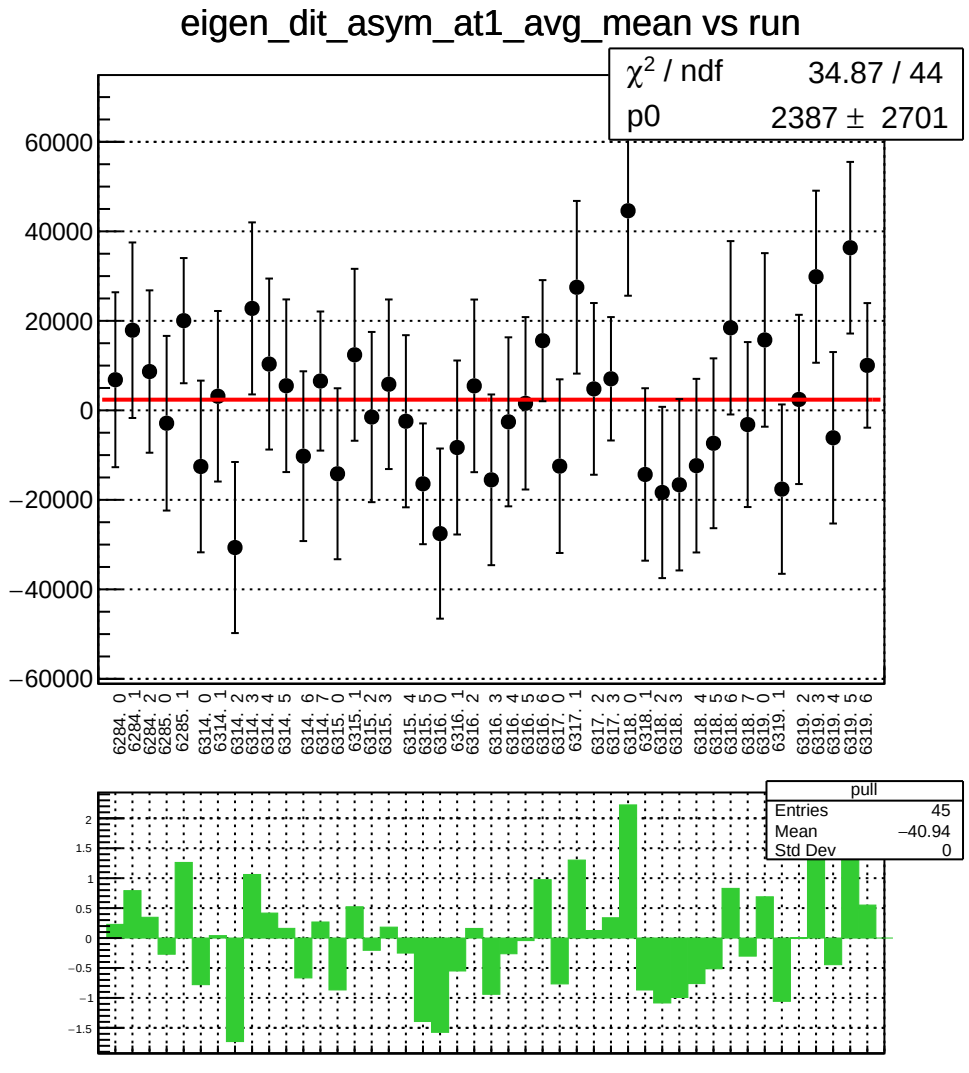
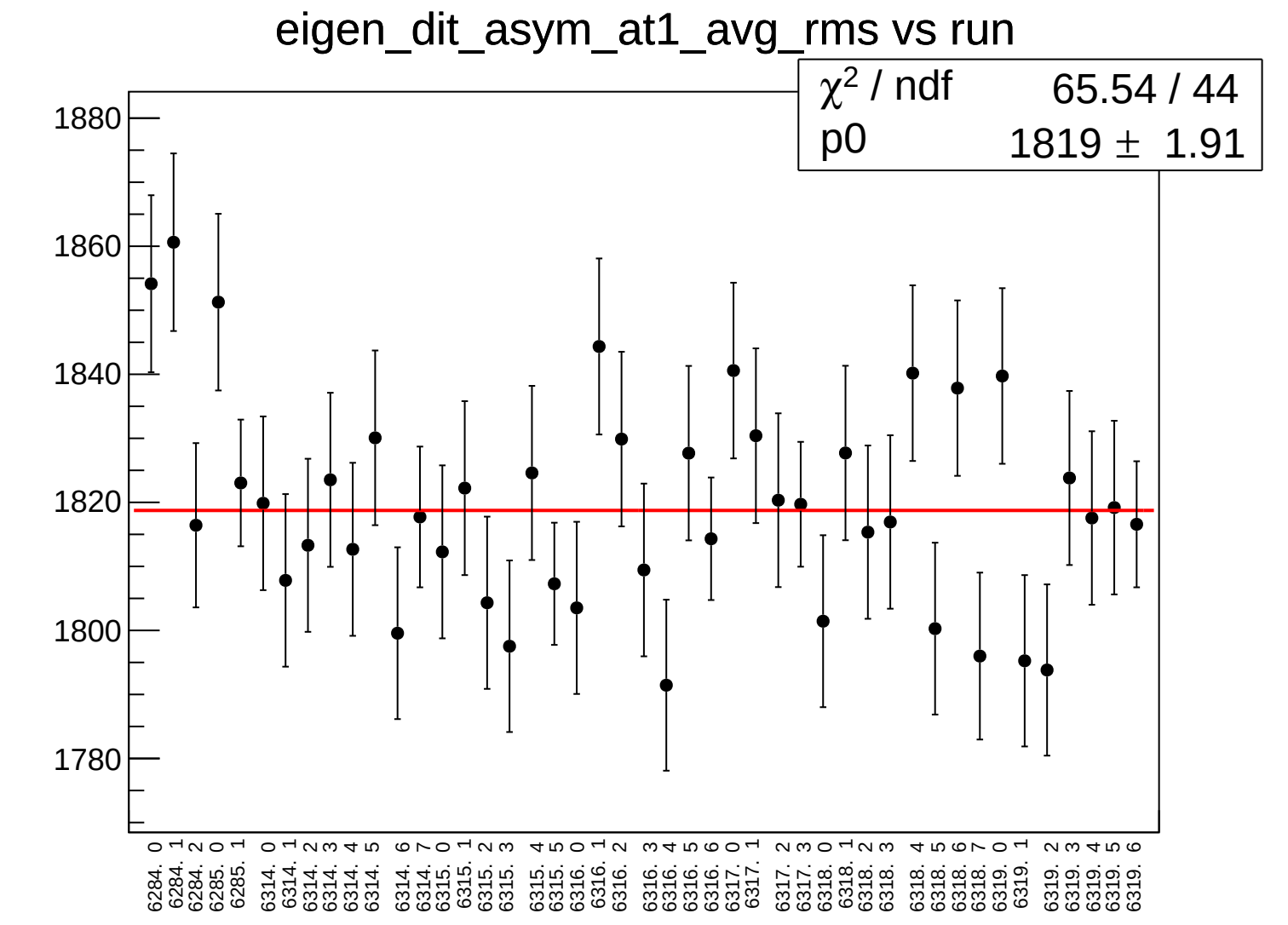
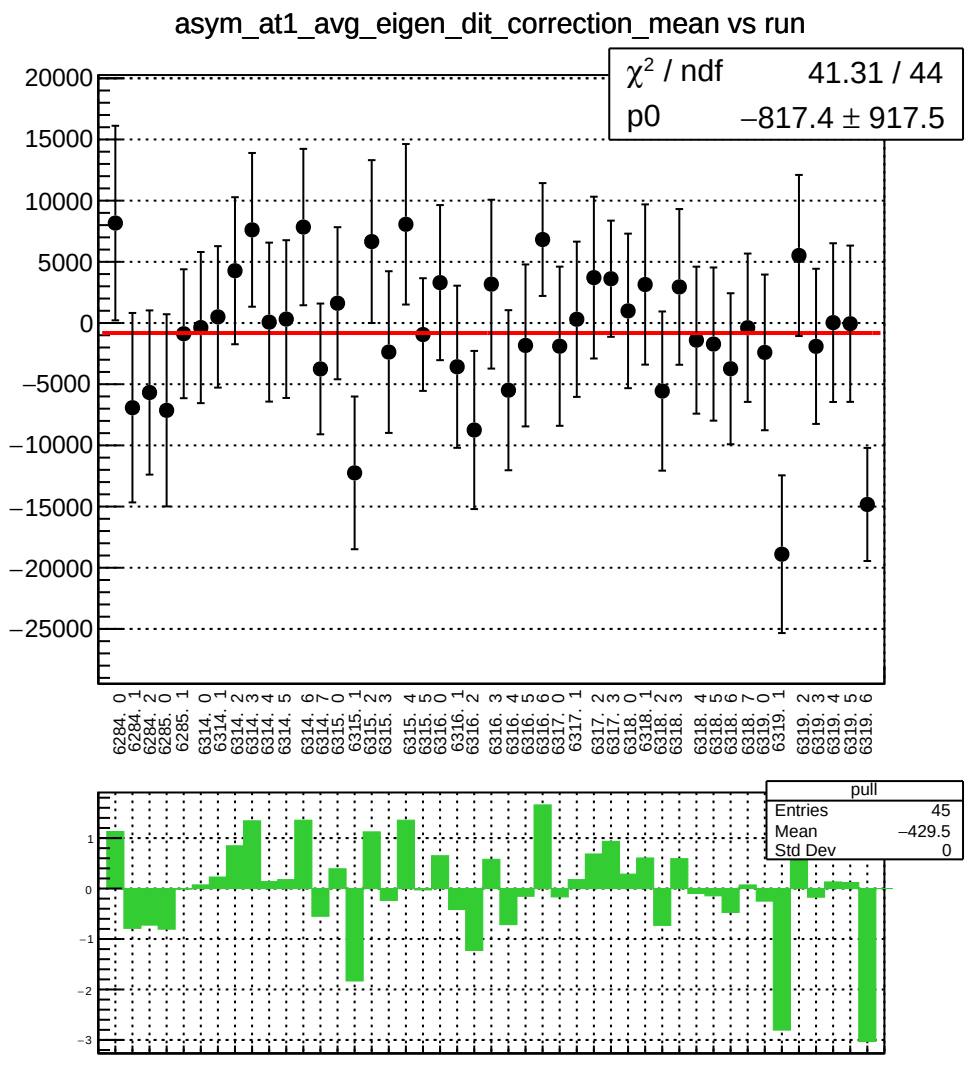
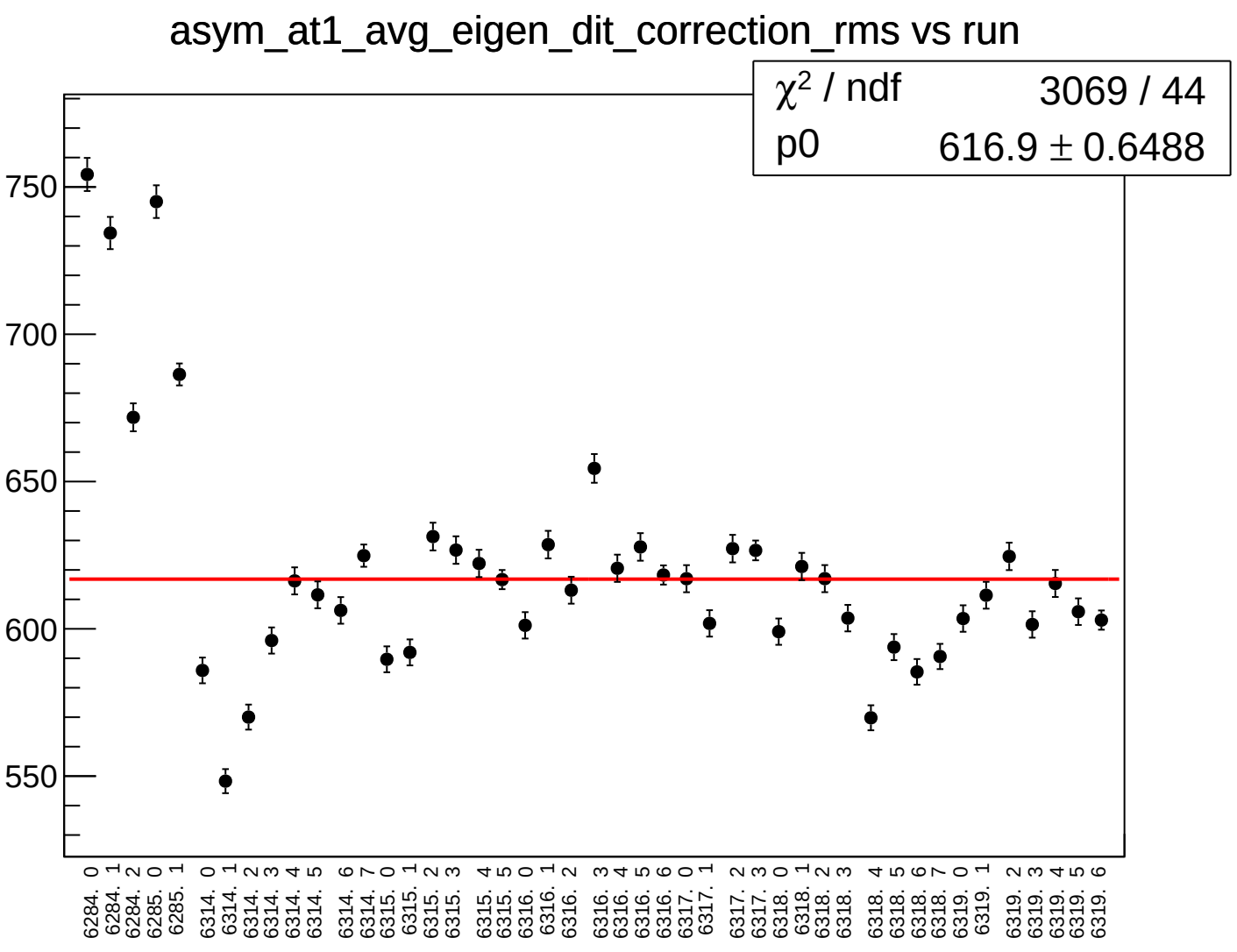
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 34.87 / 44
p0 2387 ± 2701
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −40.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01421
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 65.54 / 44
p0 1819 ± 1.91
1880
1860
1840
1820
1800
1780
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.31 / 44
p0 −817.4 ± 917.5
pull
Entries 45
Mean −429.5
Std Dev 0
pull1D
Entries 45
Mean 0.005698
Std Dev 0.9581


asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3069 / 44
p0 616.9 ± 0.6488
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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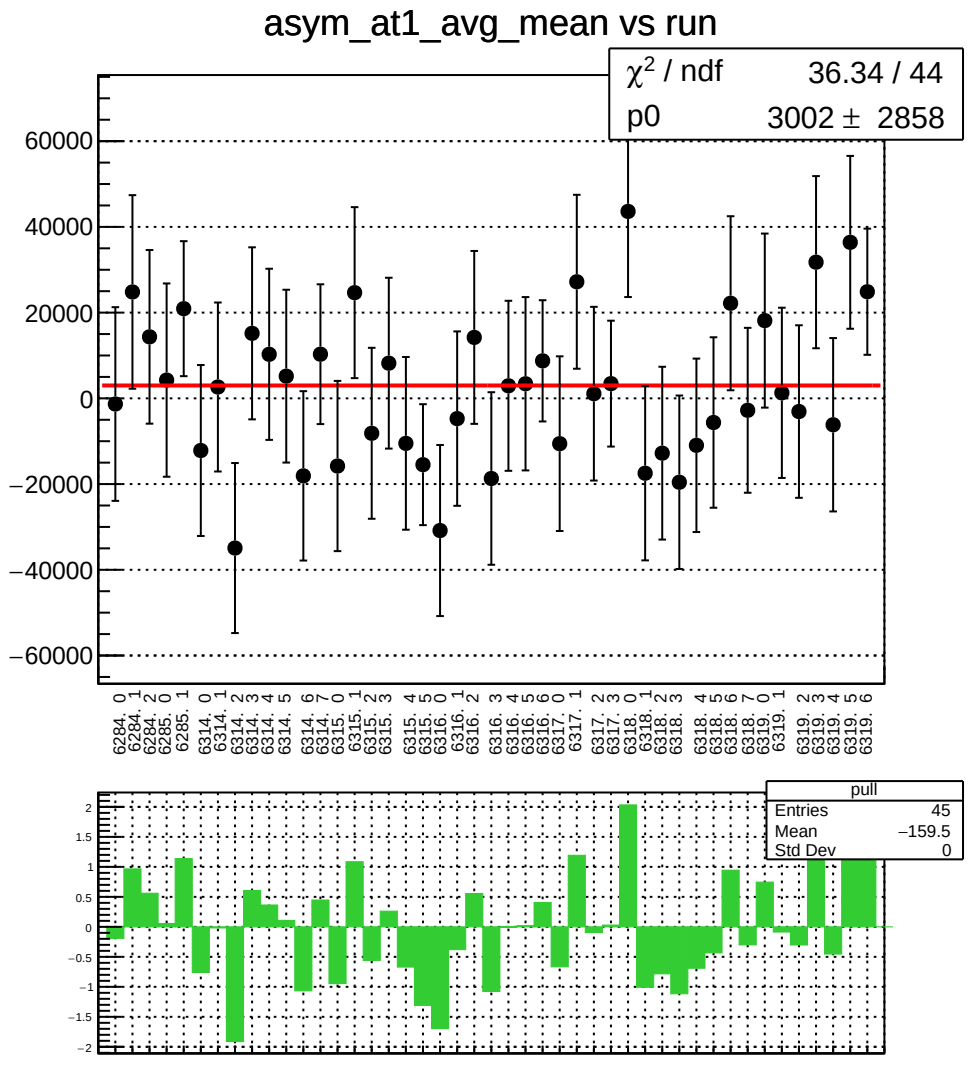
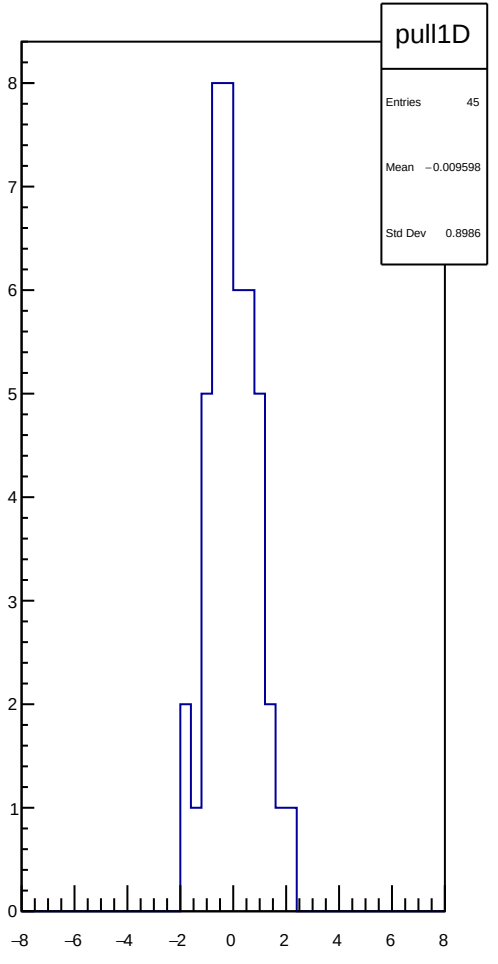
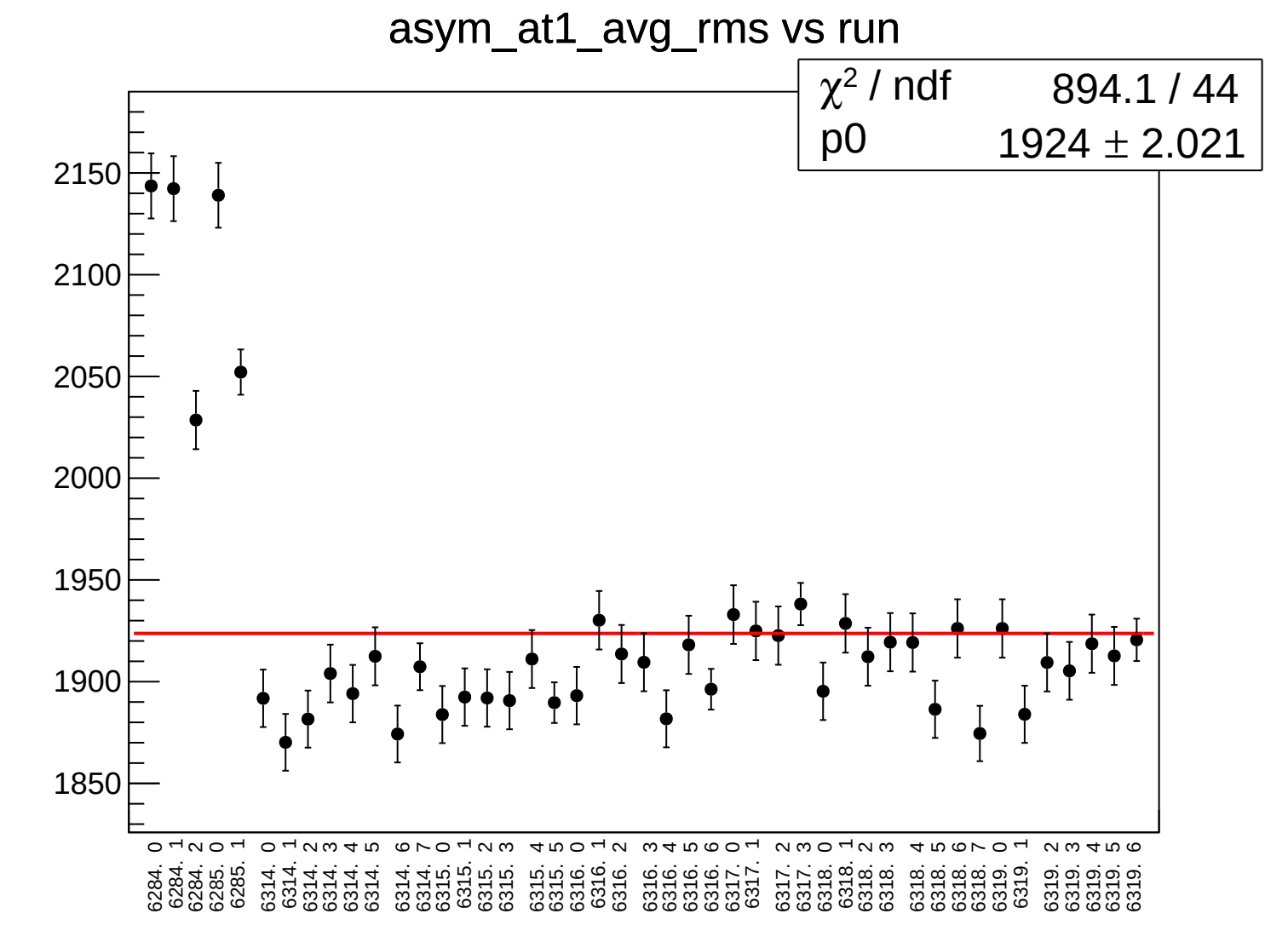
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_mean vs run
χ² / ndf 36.34 / 44
p0 3002 ± 2858
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −159.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.009598
Std Dev 0.8986
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_rms vs run
χ² / ndf 894.1 / 44
p0 1924 ± 2.021
2150
2100
2050
2000
1950
1900
1850
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
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6318. 6
6318. 7
6319. 0
6319. 1
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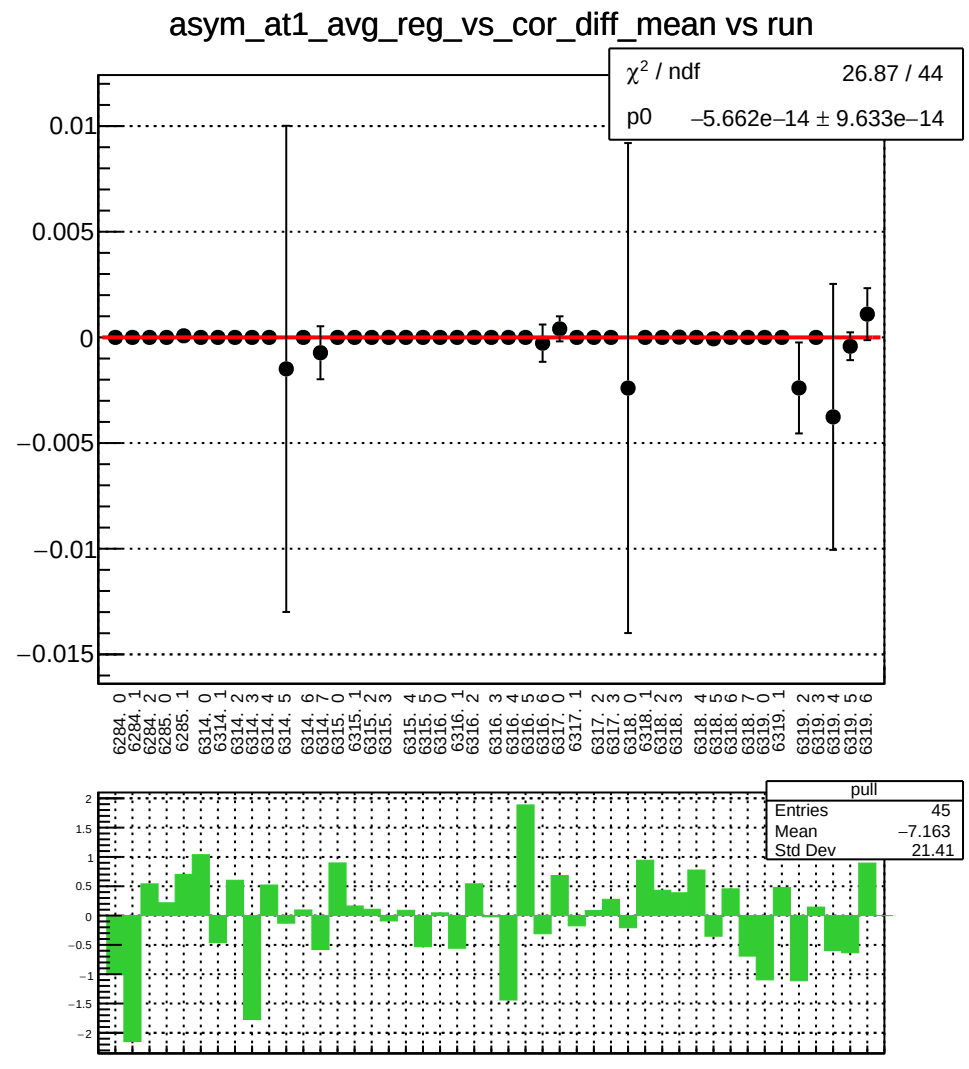
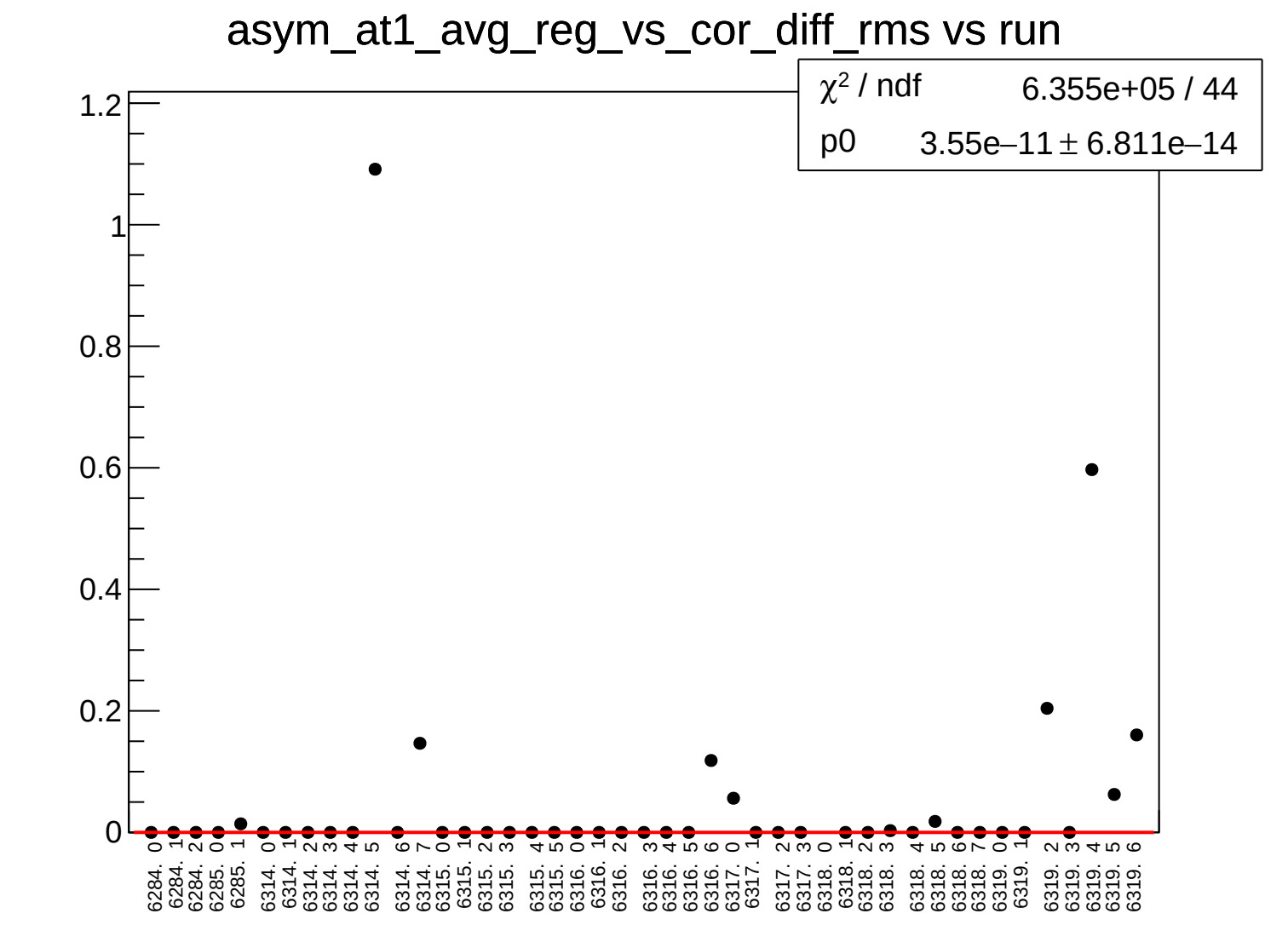
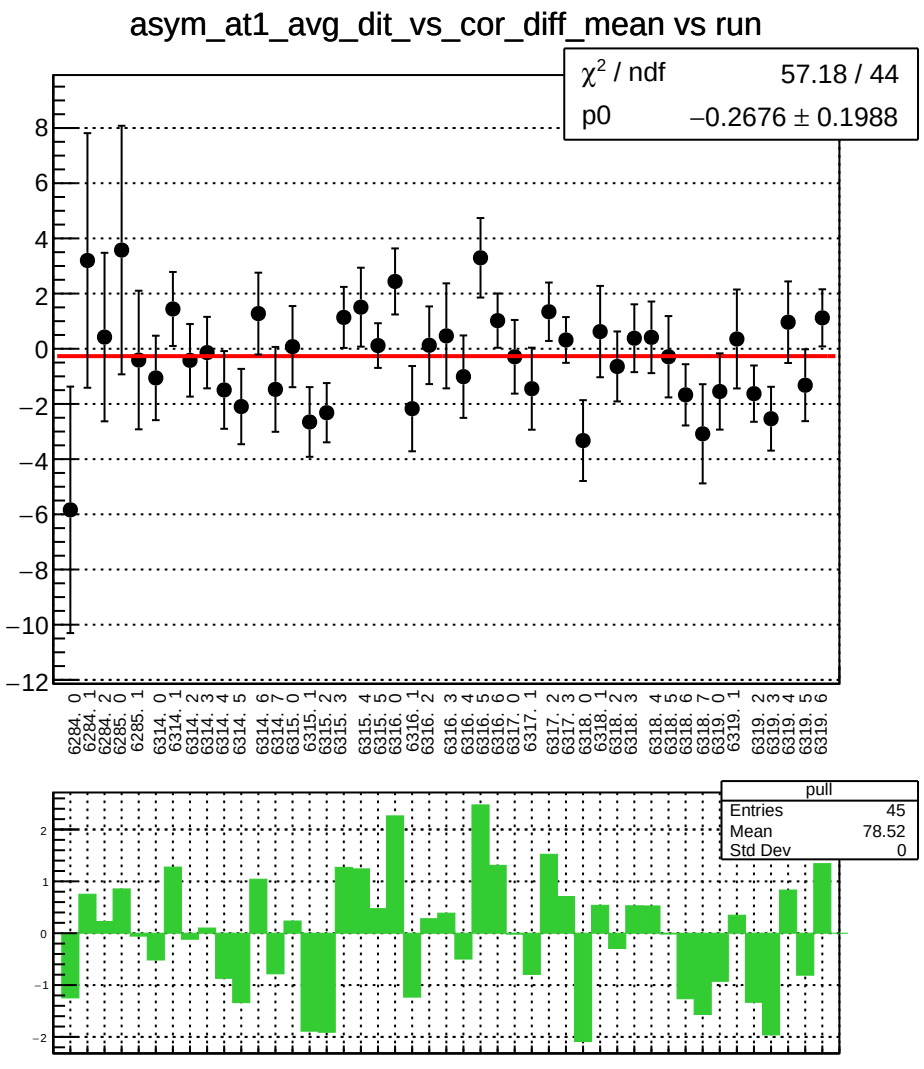
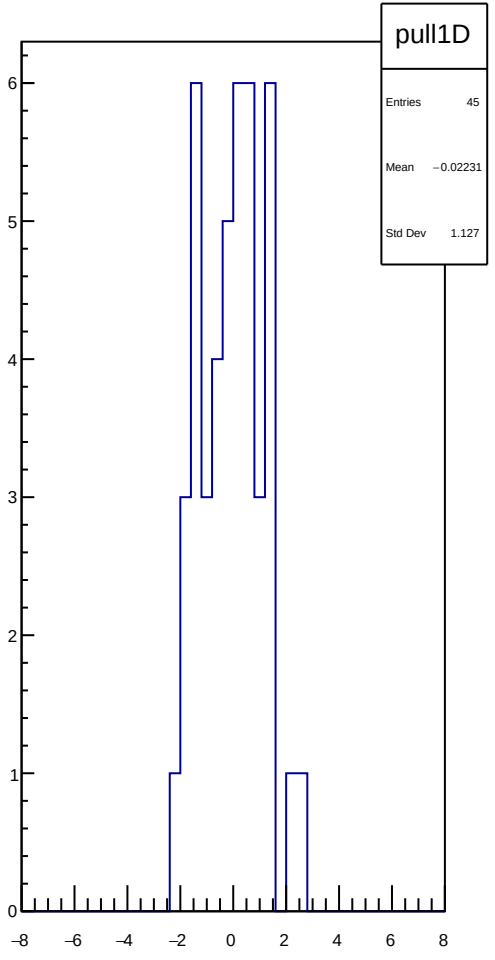
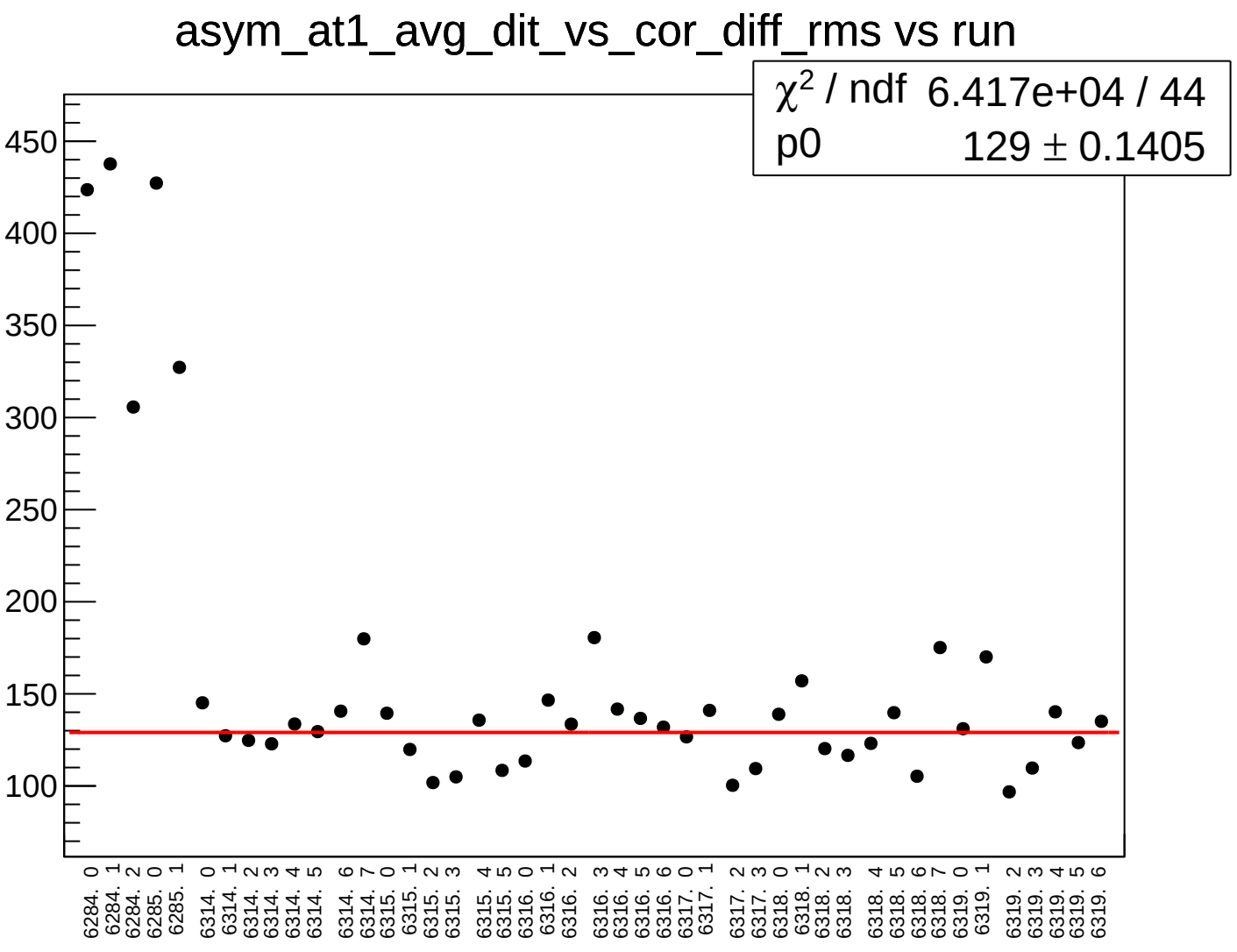
6319. 4
6319. 5
6319. 6

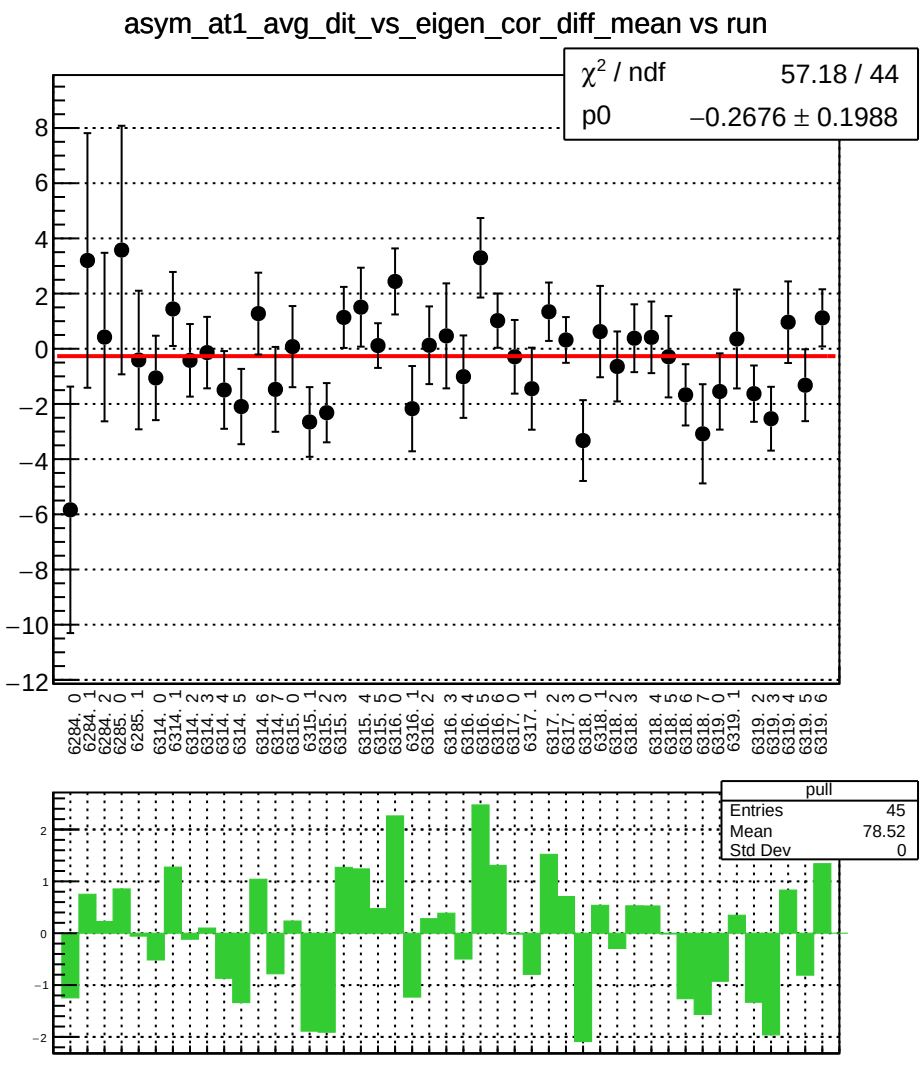

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.87 / 44
p0 −5.662e−14 ± 9.633e−14
0.01
0.005
0
−0.005
−0.01
−0.015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −7.163
Std Dev 21.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02011
Std Dev 0.7725
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

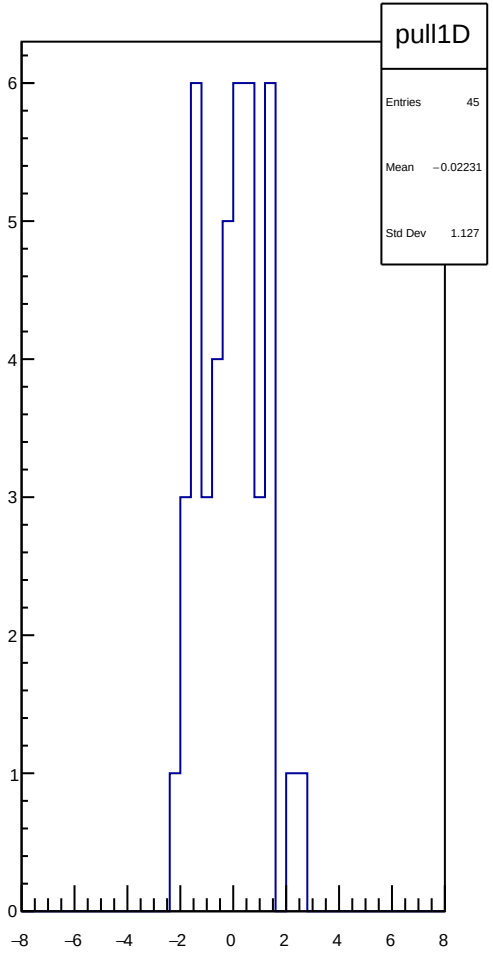

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.355e+05 / 44
p0 3.55e−11 ± 6.811e−14
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

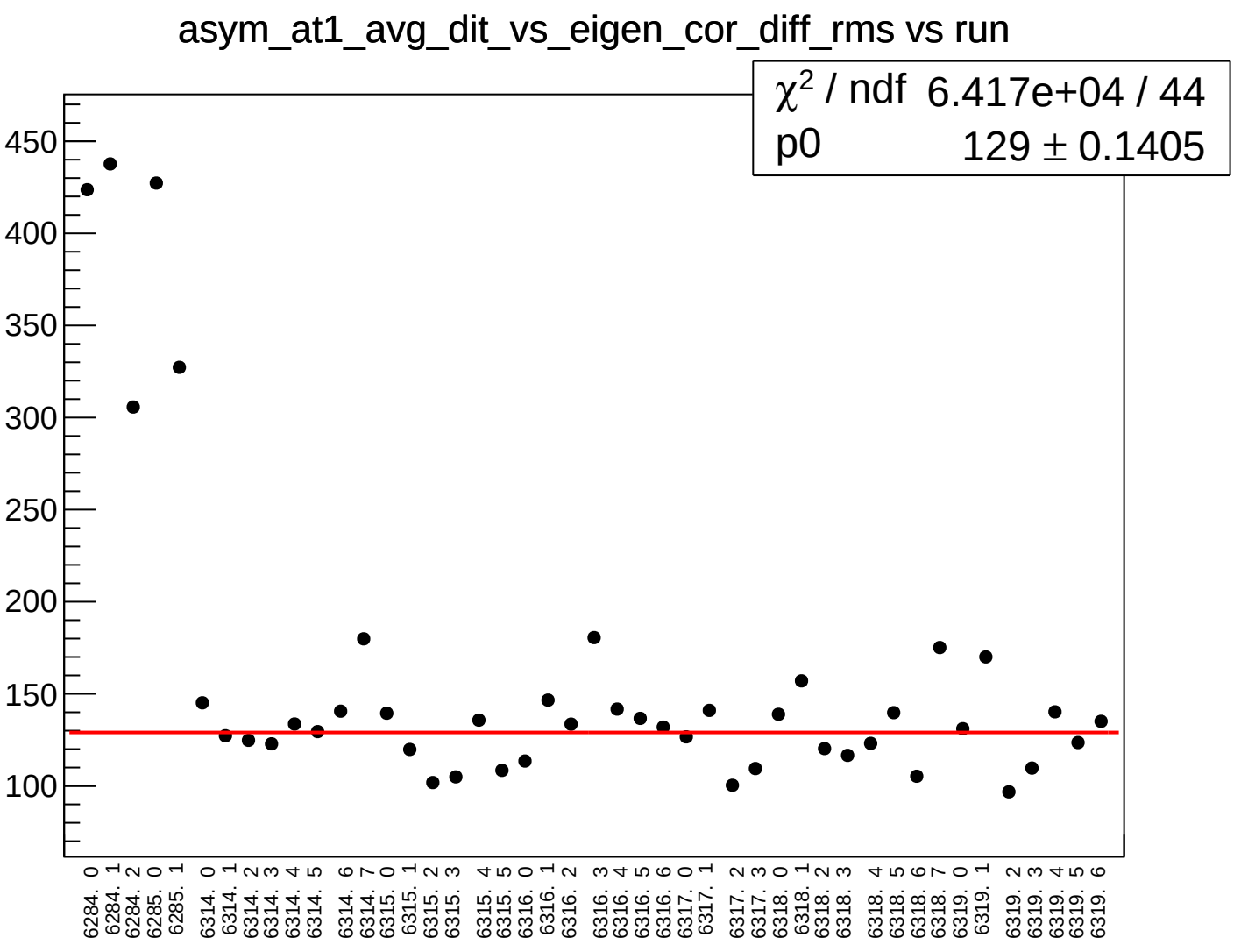

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.18 / 44
p0 −0.2676 ± 0.1988
pull
Entries 45
Mean 78.52
Std Dev 0

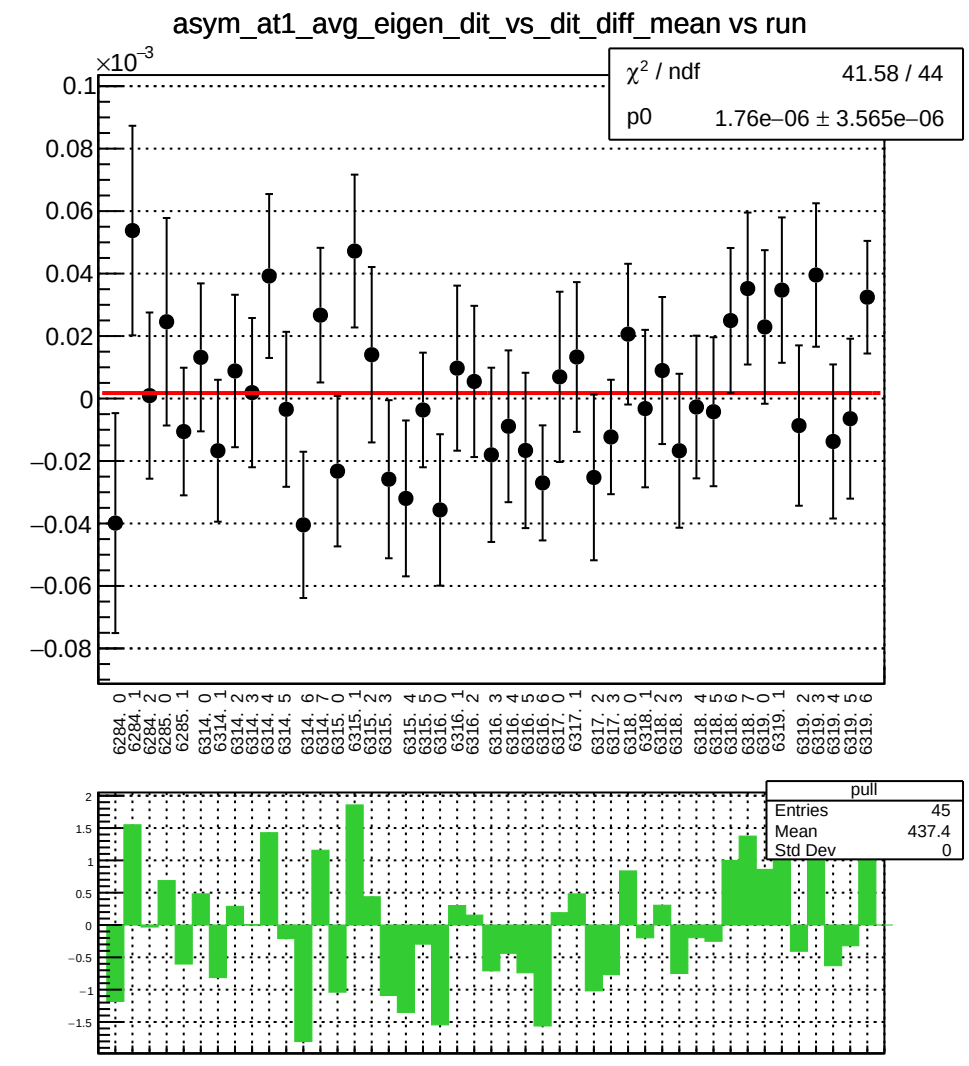

pull1D
Entries 45
Mean −0.02231
Std Dev 1.127

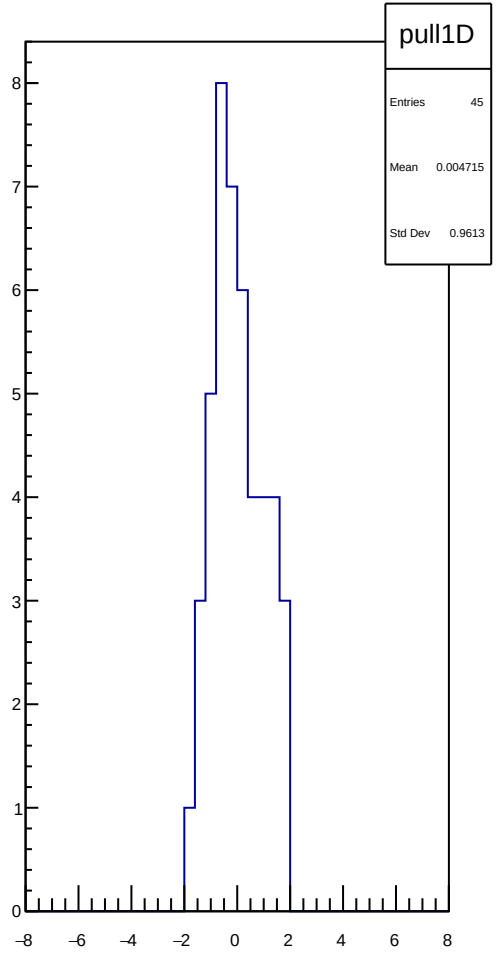

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.417e+04 / 44
p0 129 ± 0.1405
450
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

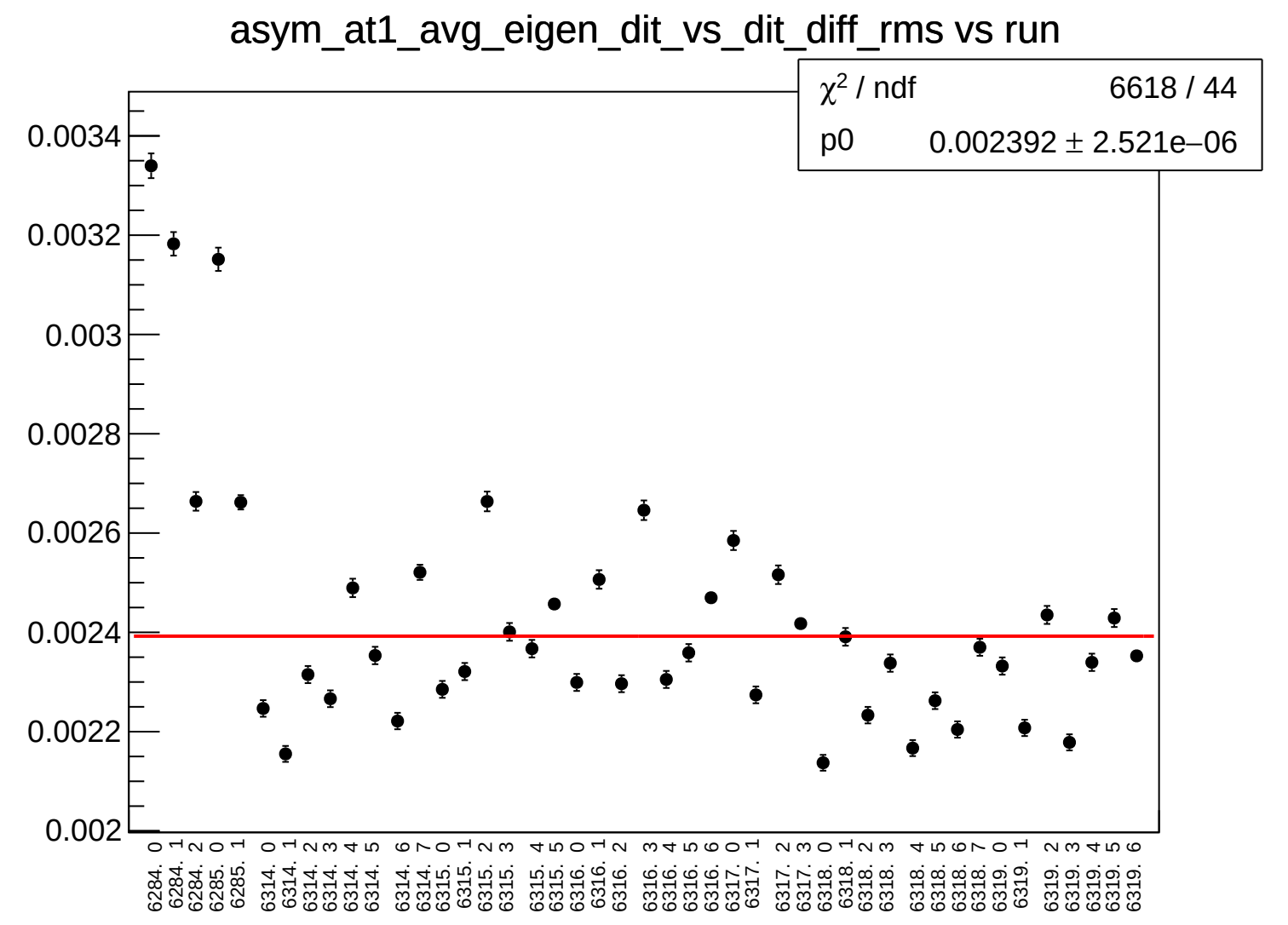

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.18 / 44
p0 −0.2676 ± 0.1988
pull
Entries 45
Mean 78.52
Std Dev 0

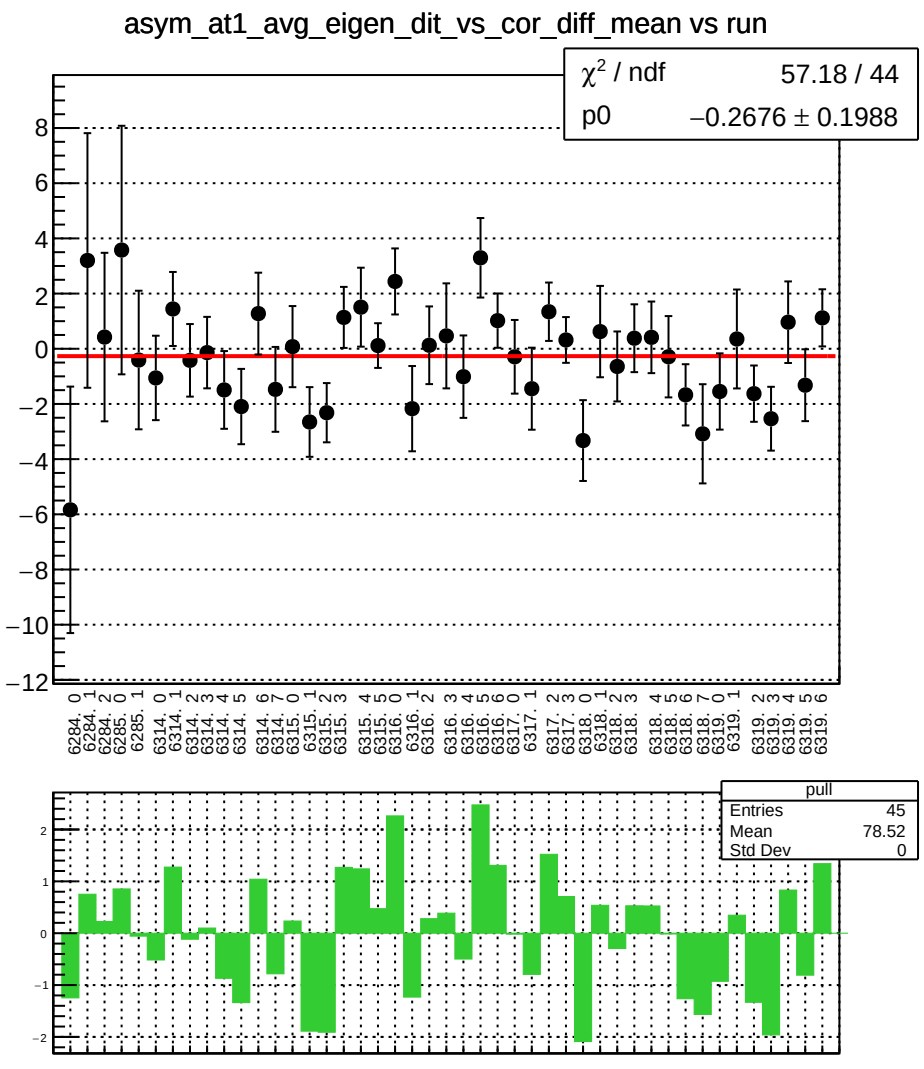

pull1D
Entries 45
Mean −0.02231
Std Dev 1.127

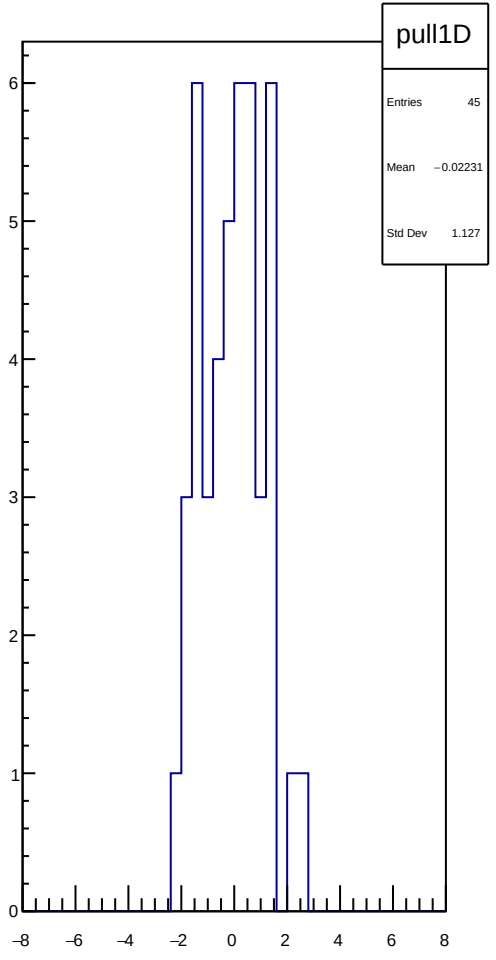

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.417e+04 / 44
p0 129 ± 0.1405
450
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

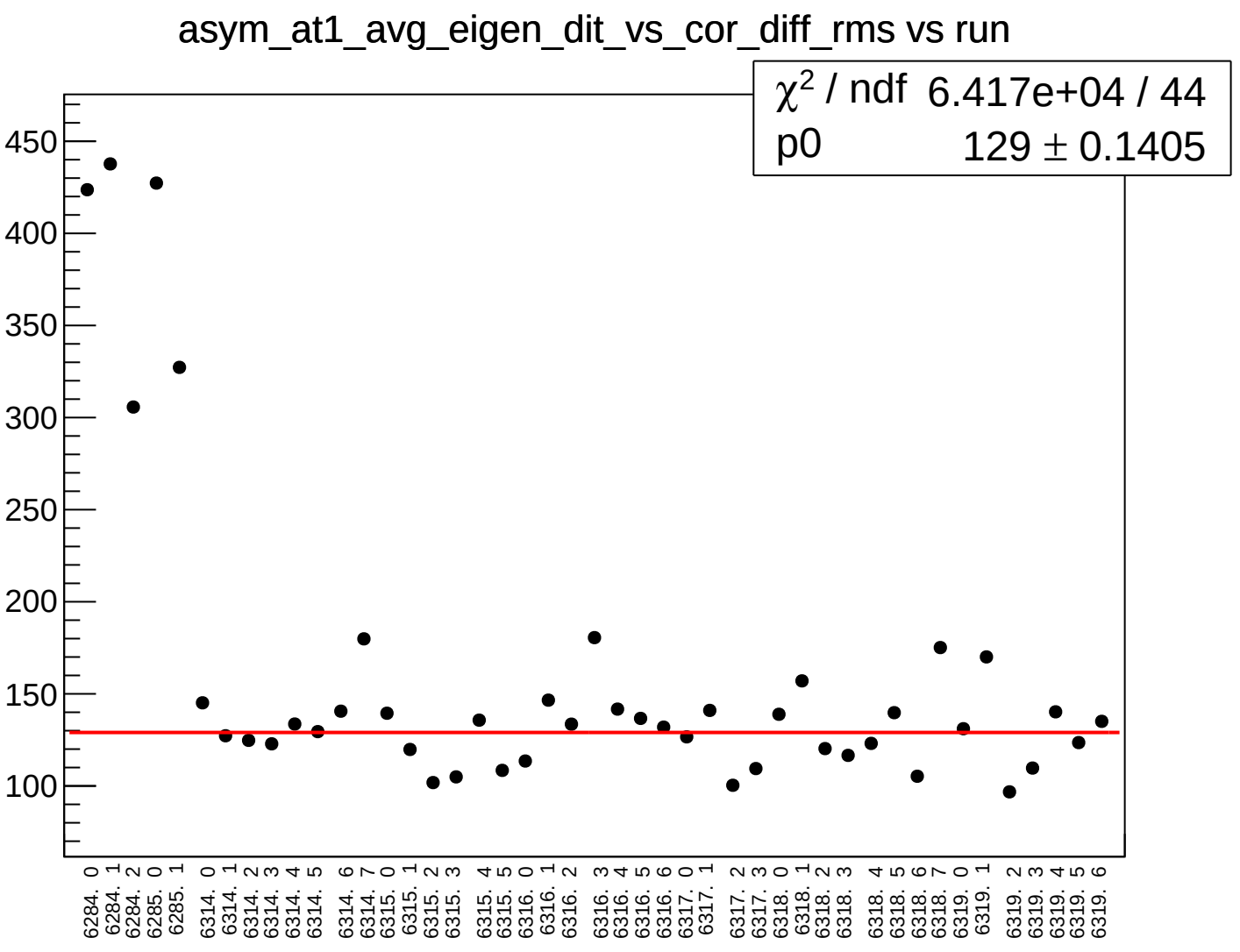

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.58 / 44
p0 1.76e−06 ± 3.565e−06
pull
Entries 45
Mean 437.4
Std Dev 0

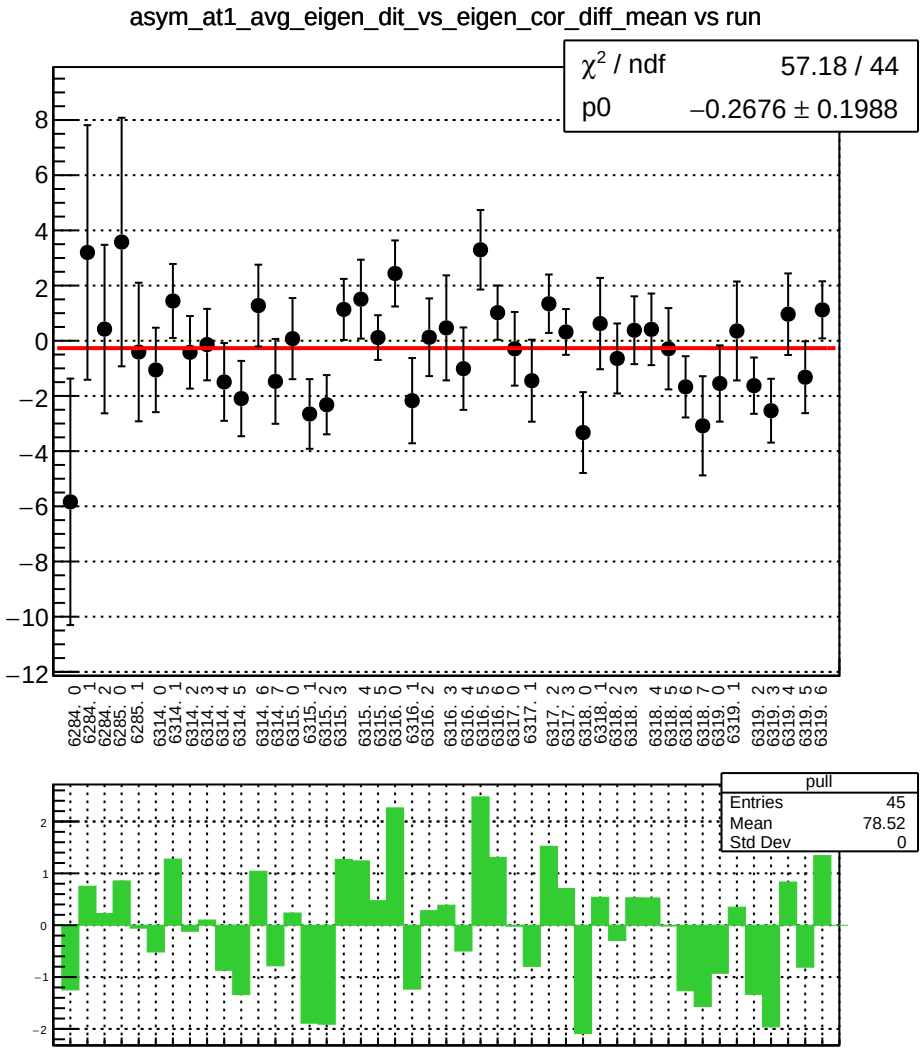

pull1D
Entries 45
Mean 0.004715
Std Dev 0.9613

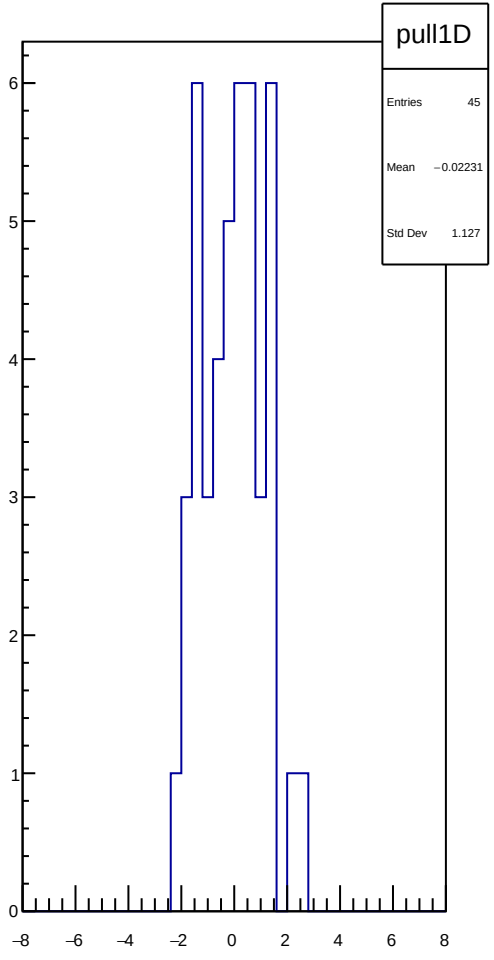

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6618 / 44
p0 0.002392 ± 2.521e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

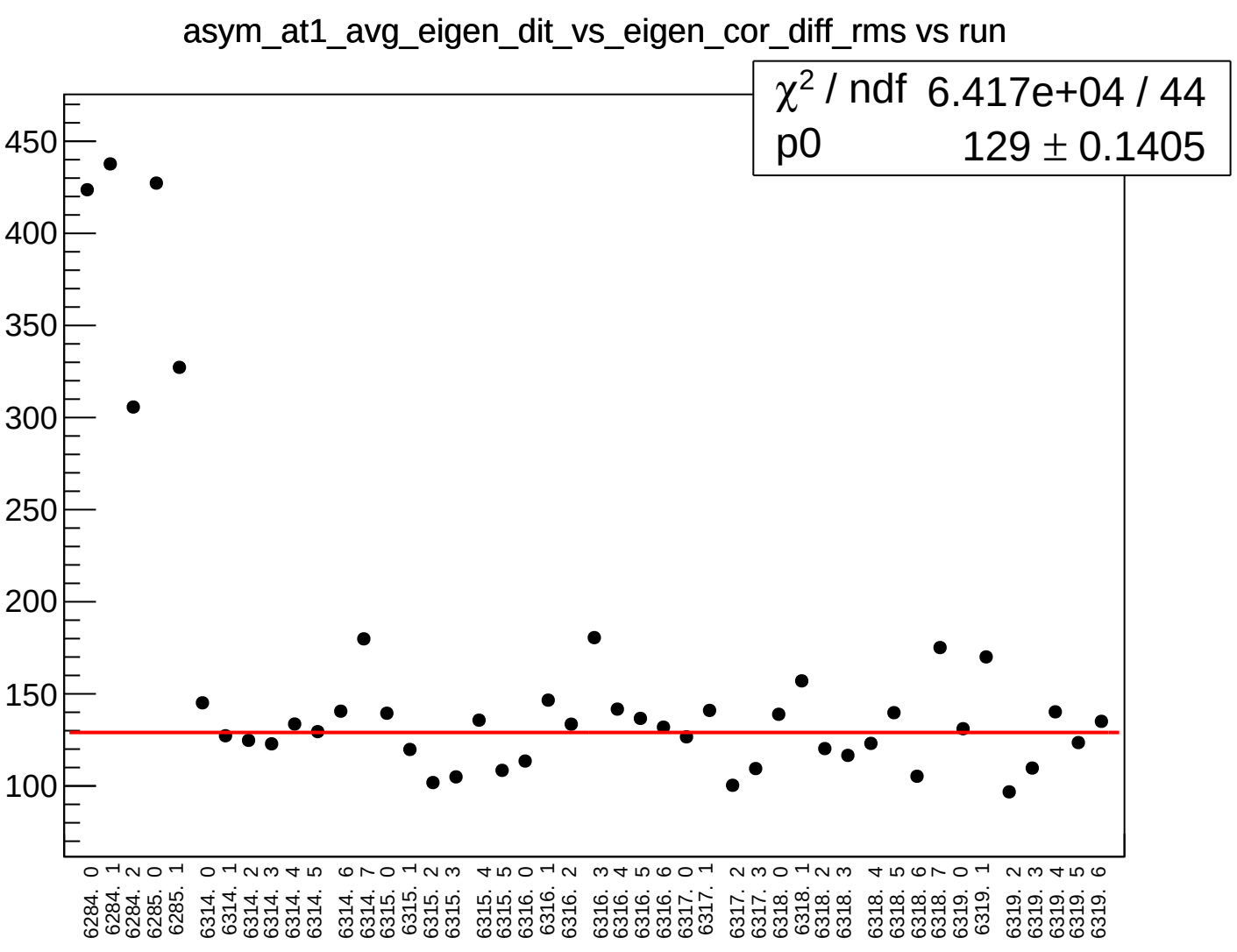

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.18 / 44
p0 −0.2676 ± 0.1988
pull
Entries 45
Mean 78.52
Std Dev 0

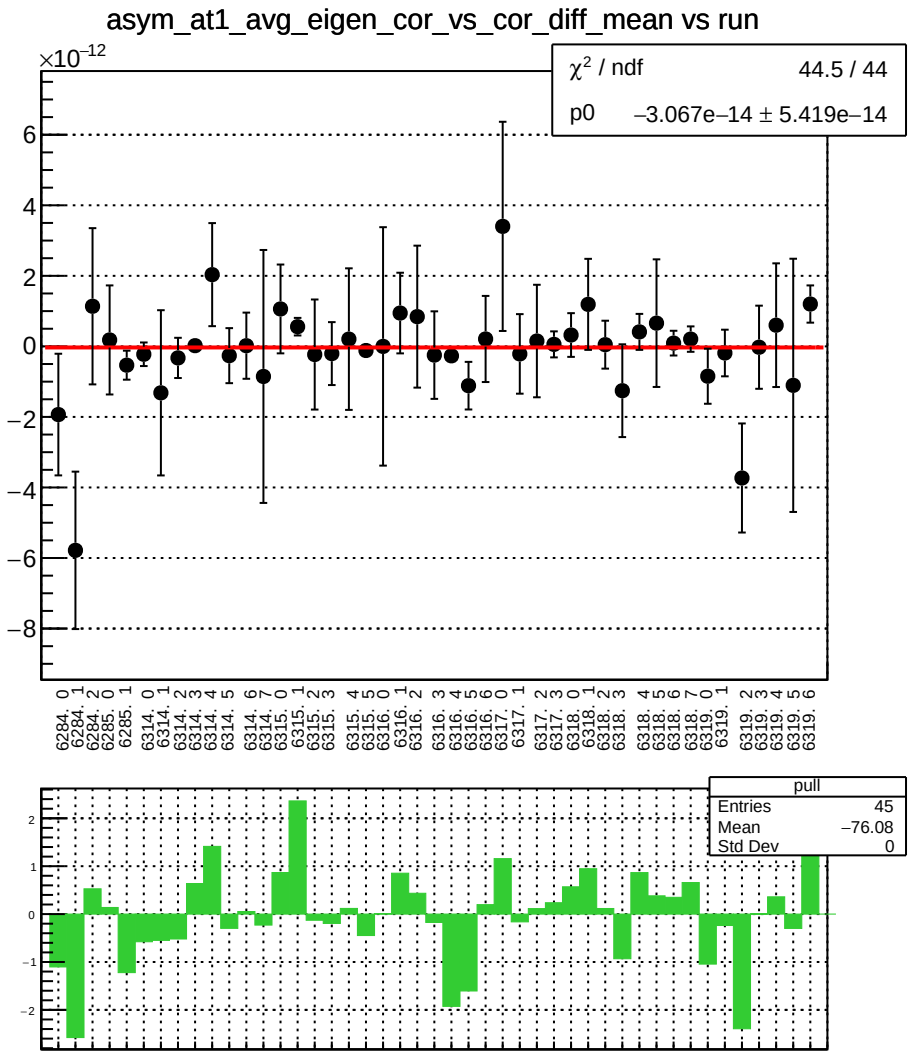

pull1D
Entries 45
Mean −0.02231
Std Dev 1.127

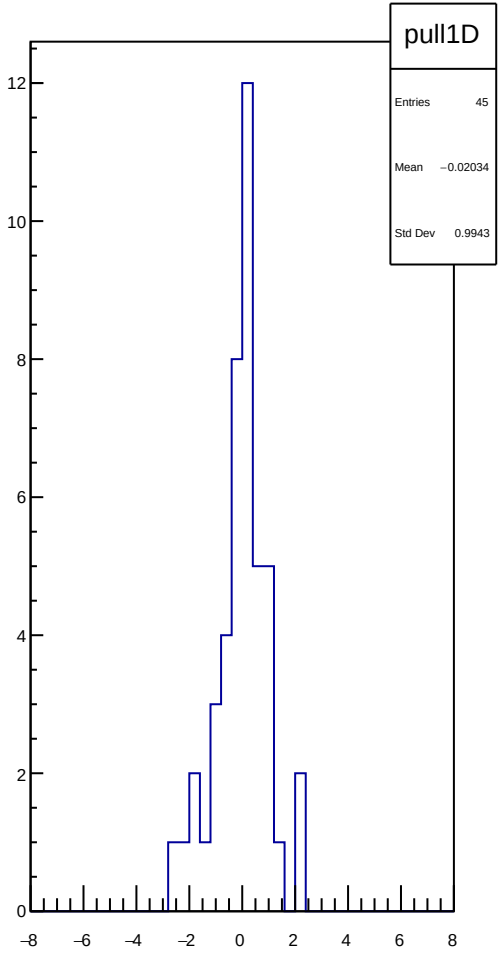

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.417e+04 / 44
p0 129 ± 0.1405
450
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

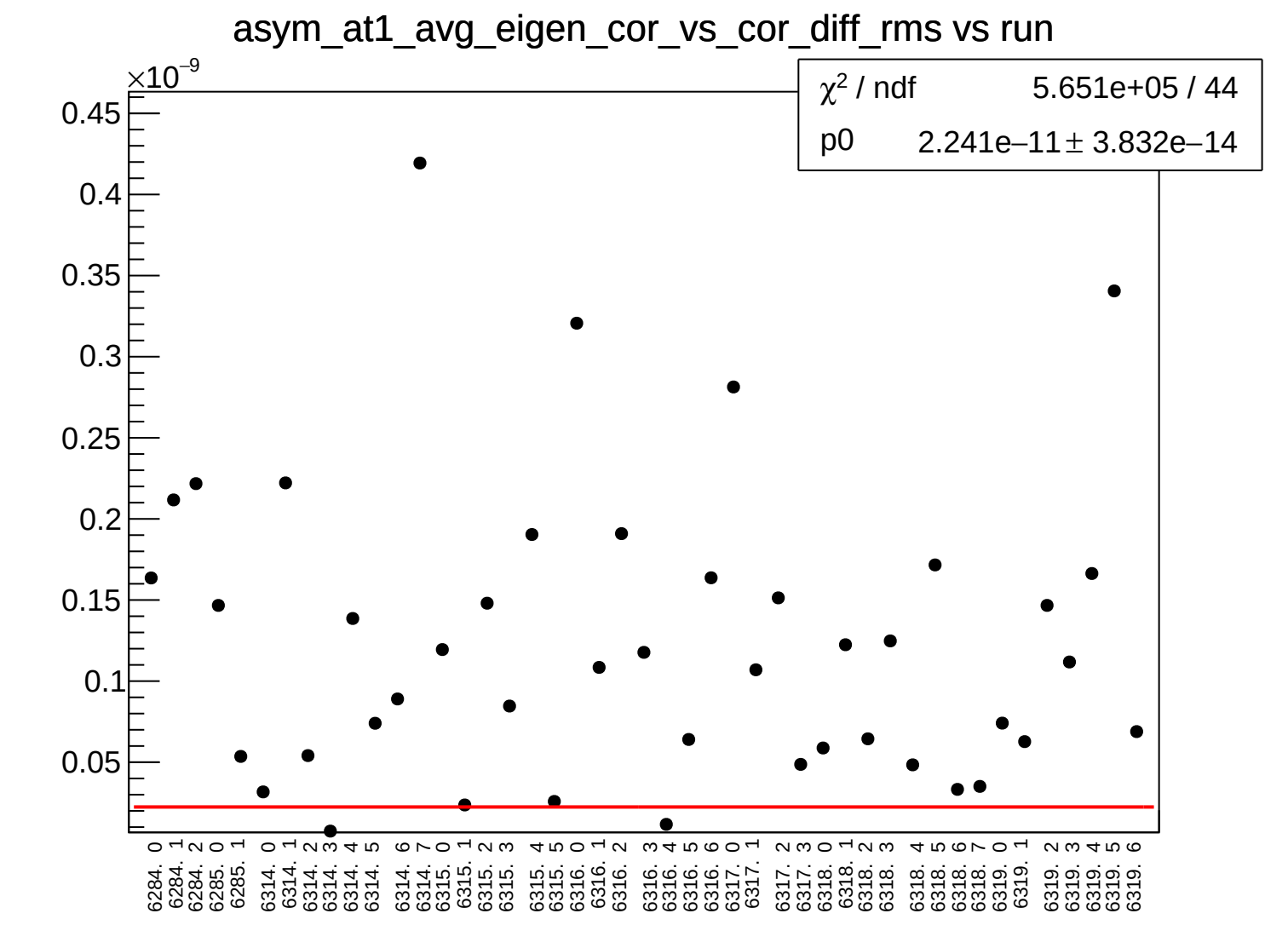

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.18 / 44
p0 −0.2676 ± 0.1988
pull
Entries 45
Mean 78.52
Std Dev 0

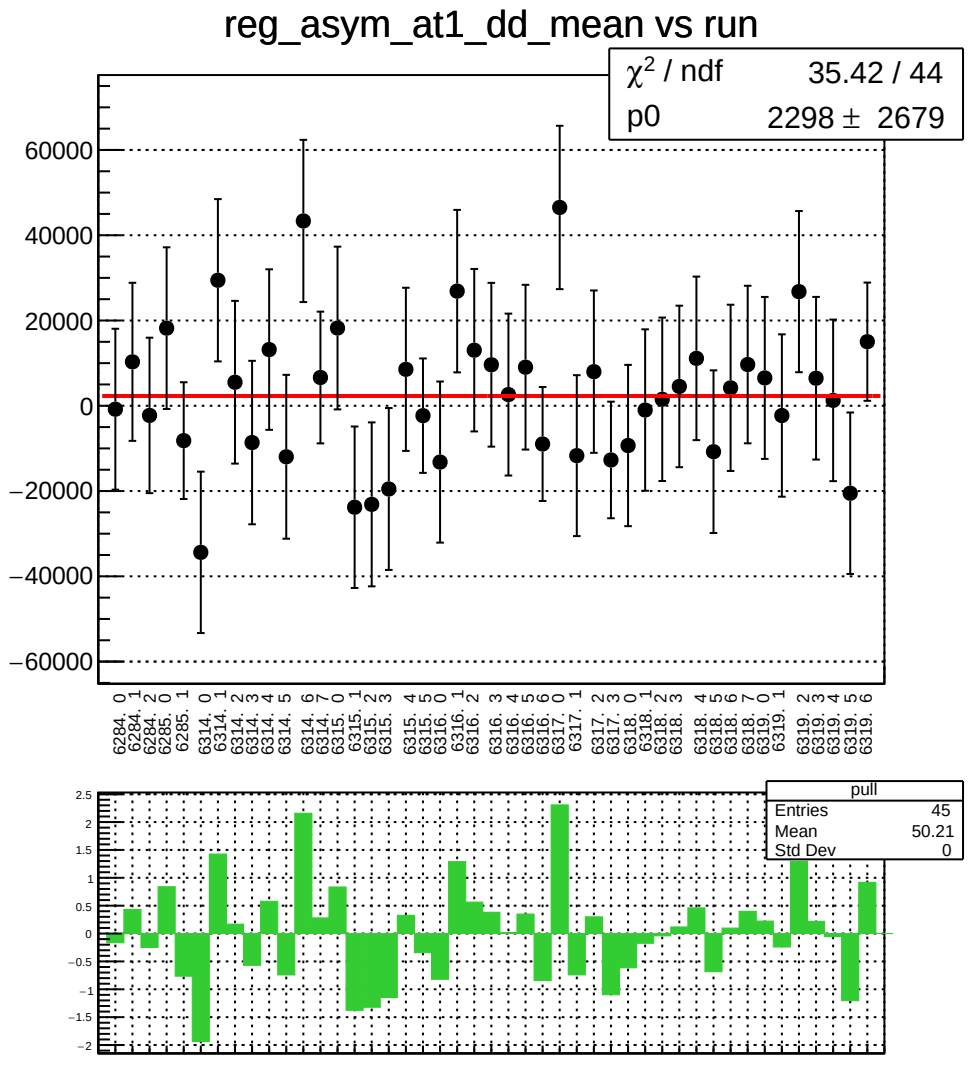

pull1D
Entries 45
Mean −0.02231
Std Dev 1.127


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.417e+04 / 44
p0 129 ± 0.1405
450
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.5 / 44
p0 −3.067e−14 ± 5.419e−14
6
4
2
0
−2
−4
−6
−8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −76.08
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02034
Std Dev 0.9943
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.651e+05 / 44
p0 2.241e−11 ± 3.832e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_at1_dd_mean vs run
χ² / ndf 35.42 / 44
p0 2298 ± 2679
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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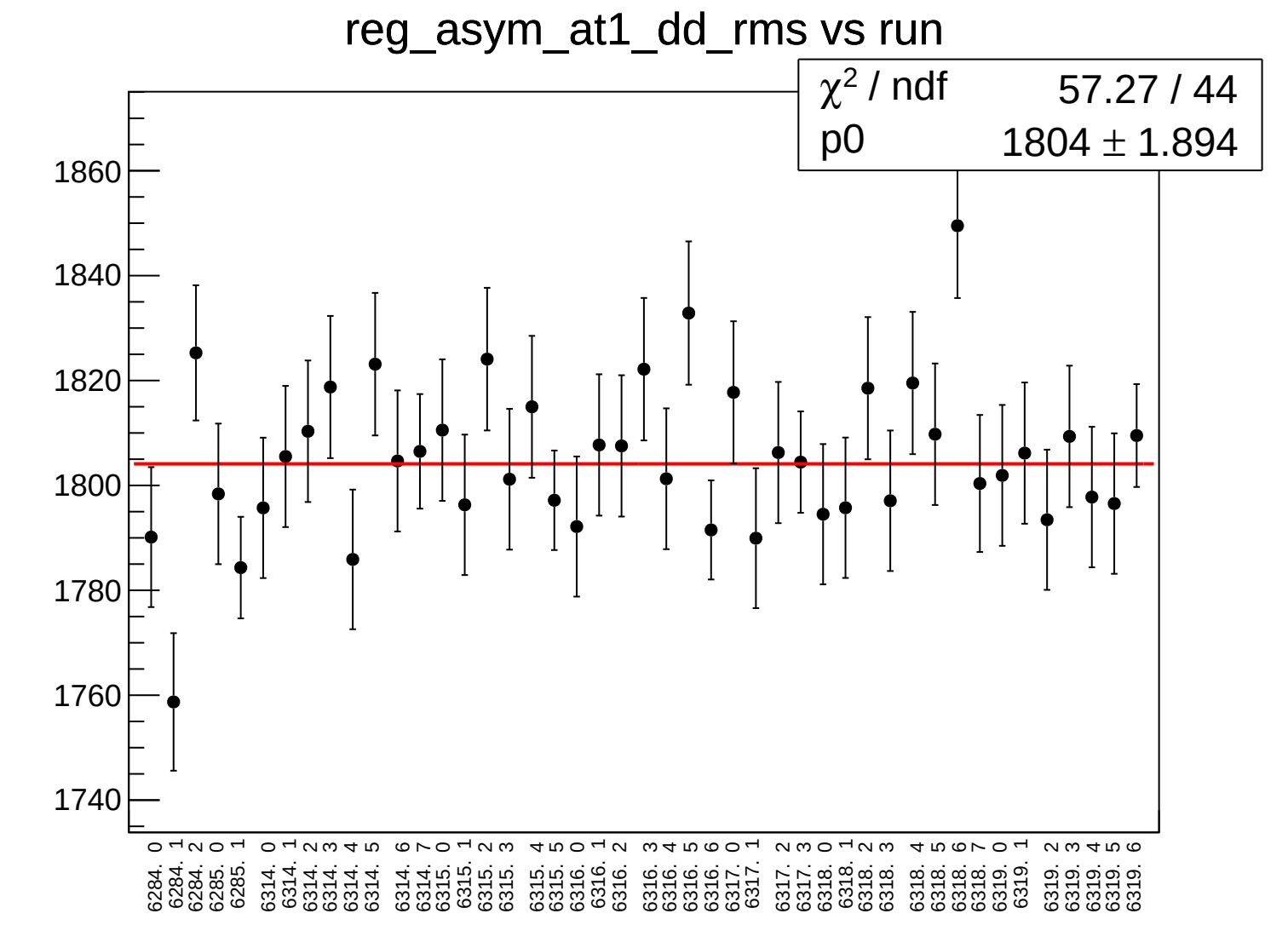
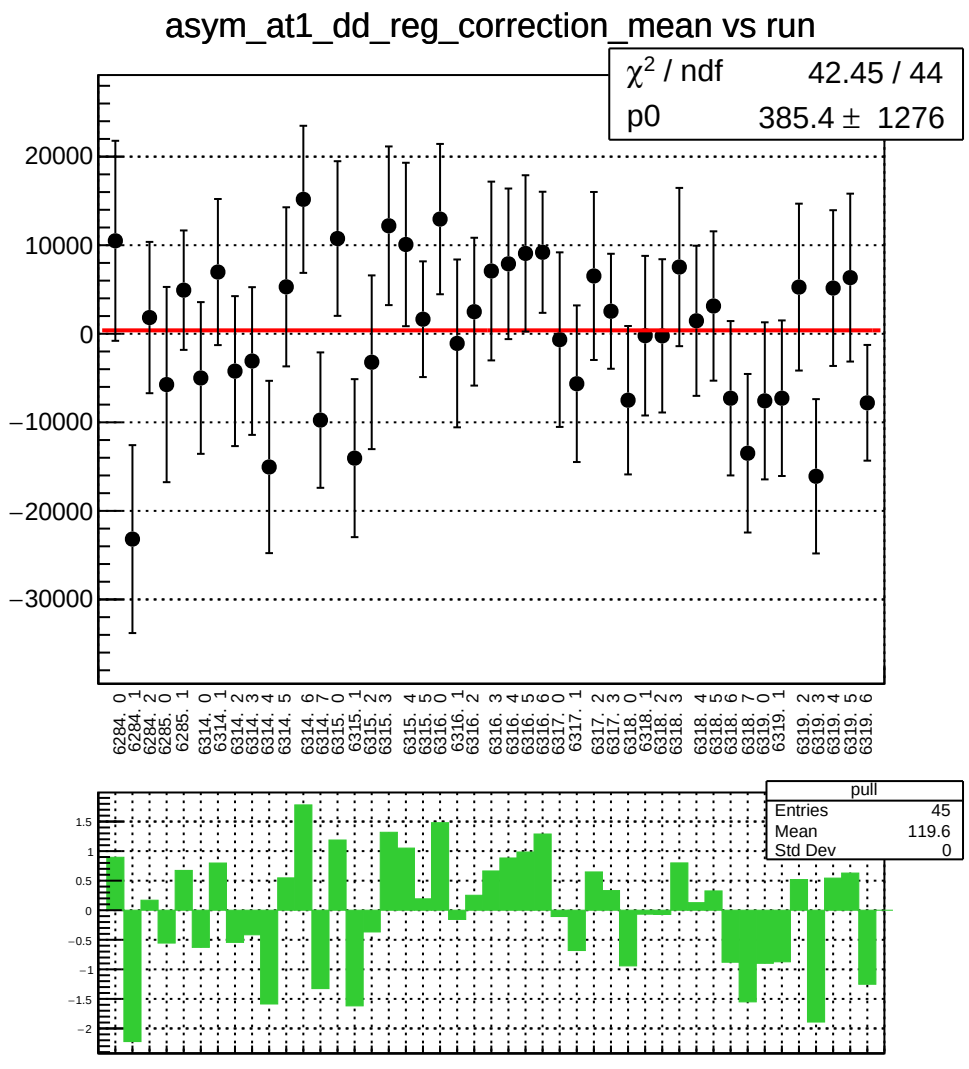
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01881
Std Dev 0.887
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_rms vs run
χ² / ndf 57.27 / 44
p0 1804 ± 1.894
1860
1840
1820
1800
1780
1760
1740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_reg_correction_mean vs run
χ² / ndf 42.45 / 44
p0 385.4 ± 1276
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 119.6
Std Dev 0
1.5
1
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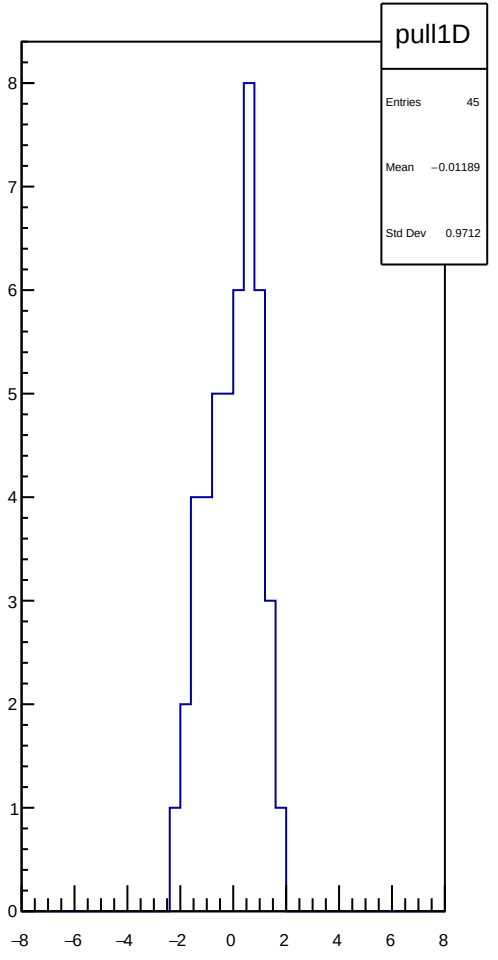
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01189
Std Dev 0.9712
8
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5
4
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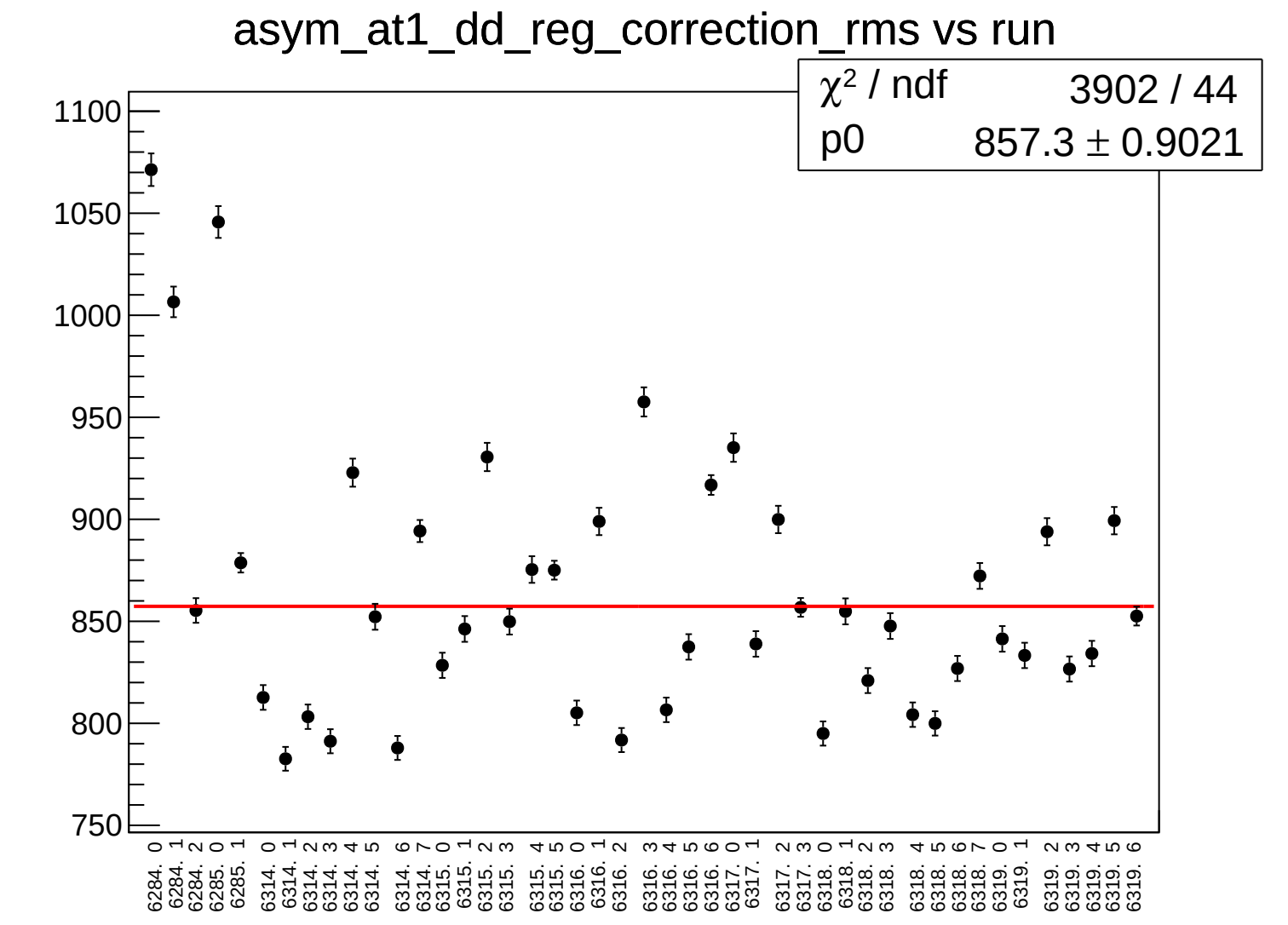
−6
−4
−2
0
2
4
6
8


asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3902 / 44
p0 857.3 ± 0.9021
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
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6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 3
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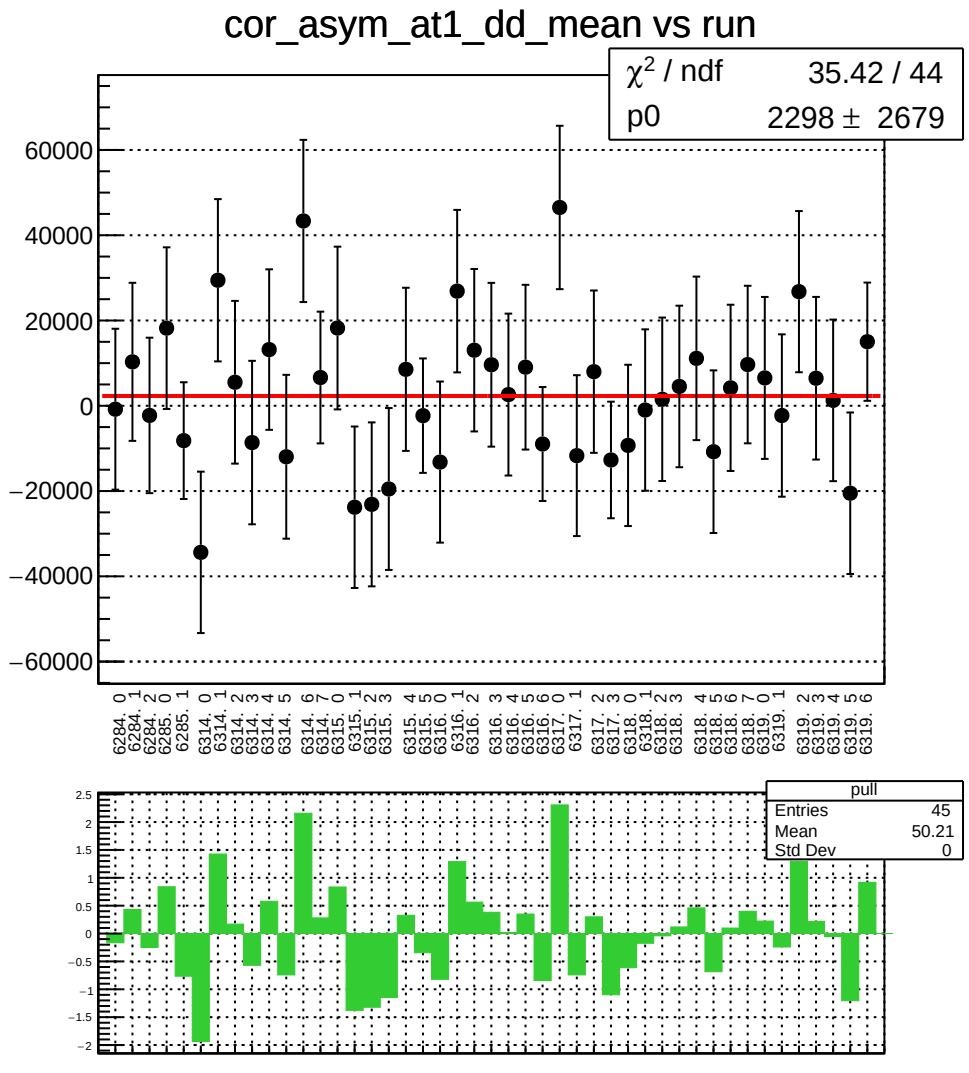
cor_asym_at1_dd_mean vs run
χ² / ndf 35.42 / 44
p0 2298 ± 2679
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01881
Std Dev 0.887
12
10
8
6
4
2
0
−8
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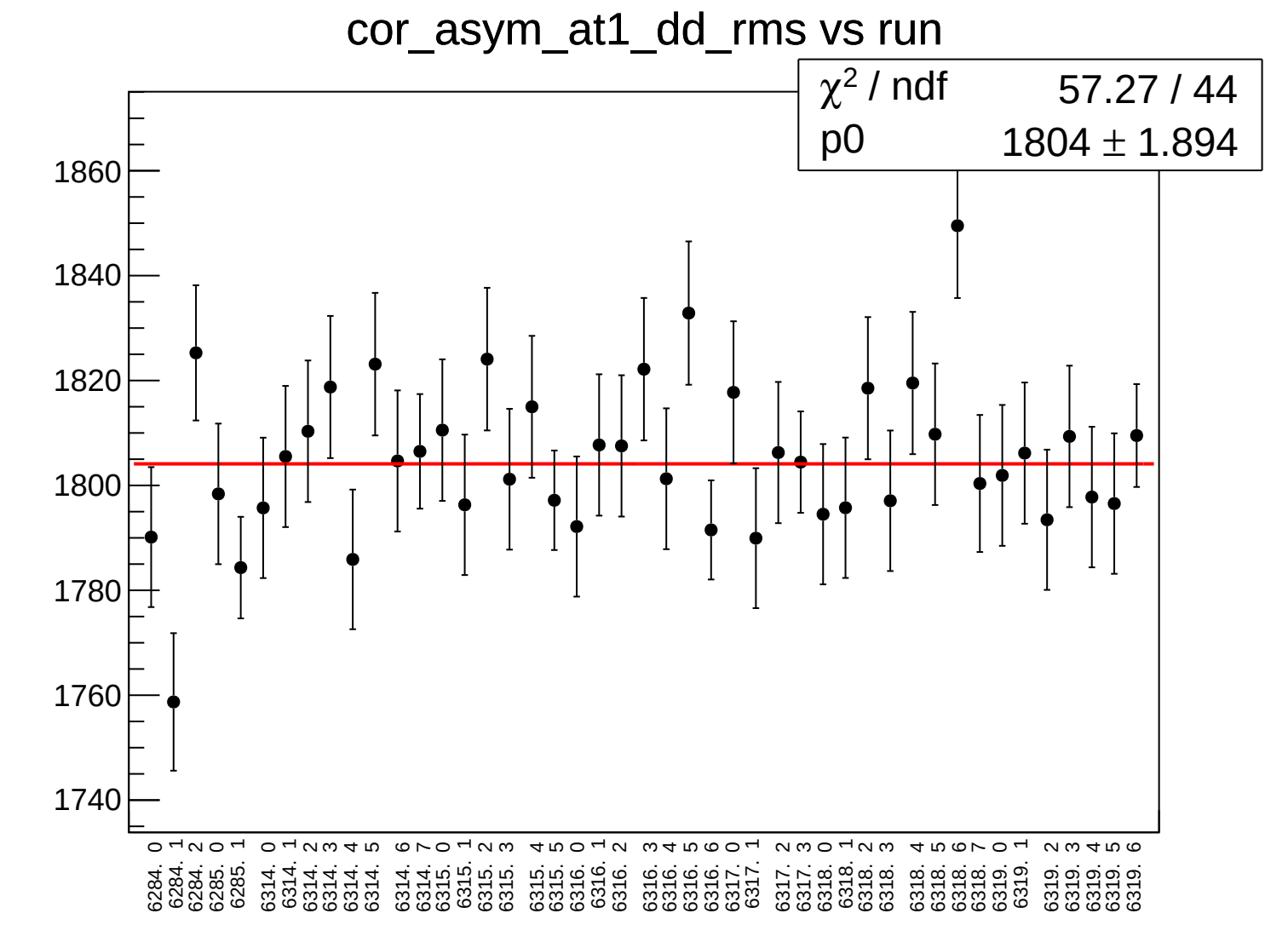
−4
−2
0
2
4
6
8


cor_asym_at1_dd_rms vs run
χ² / ndf 57.27 / 44
p0 1804 ± 1.894
1860
1840
1820
1800
1780
1760
1740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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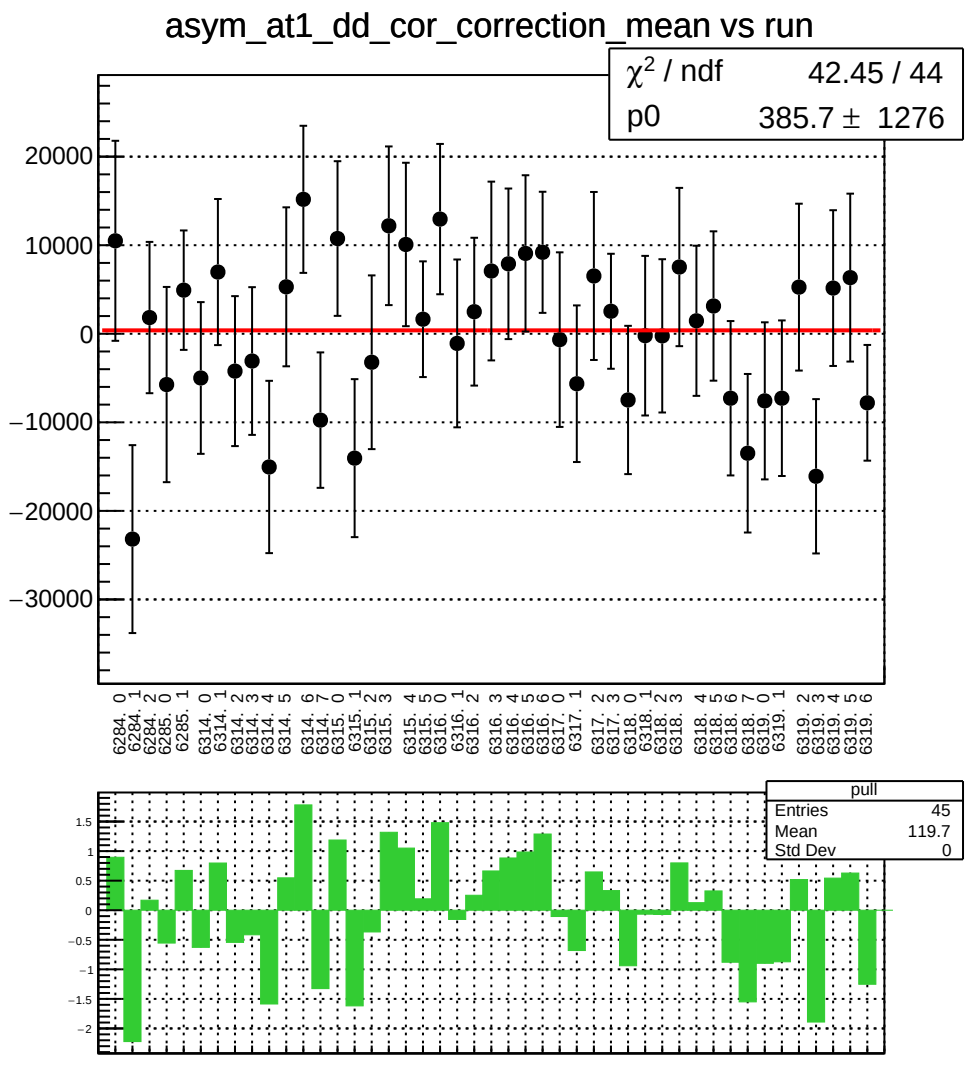
6319. 6


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 42.45 / 44
p0 385.7 ± 1276
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
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6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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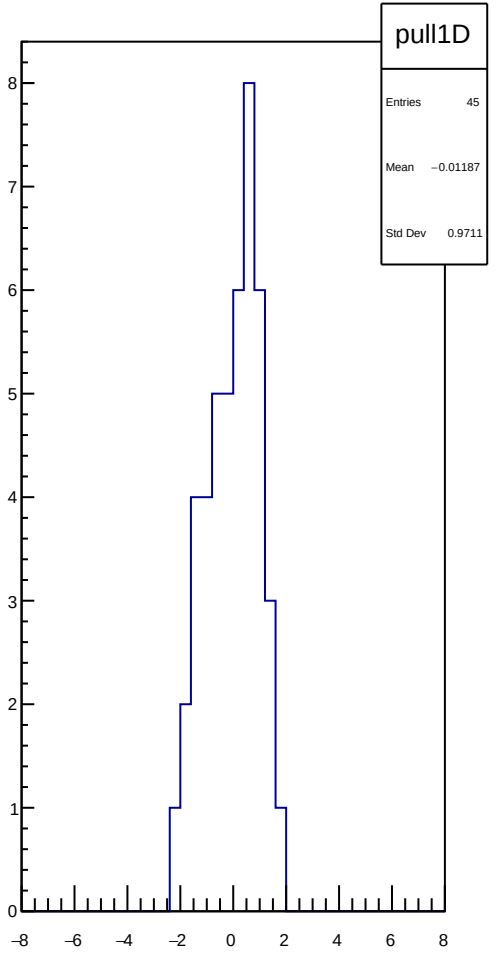
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 119.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01187
Std Dev 0.9711
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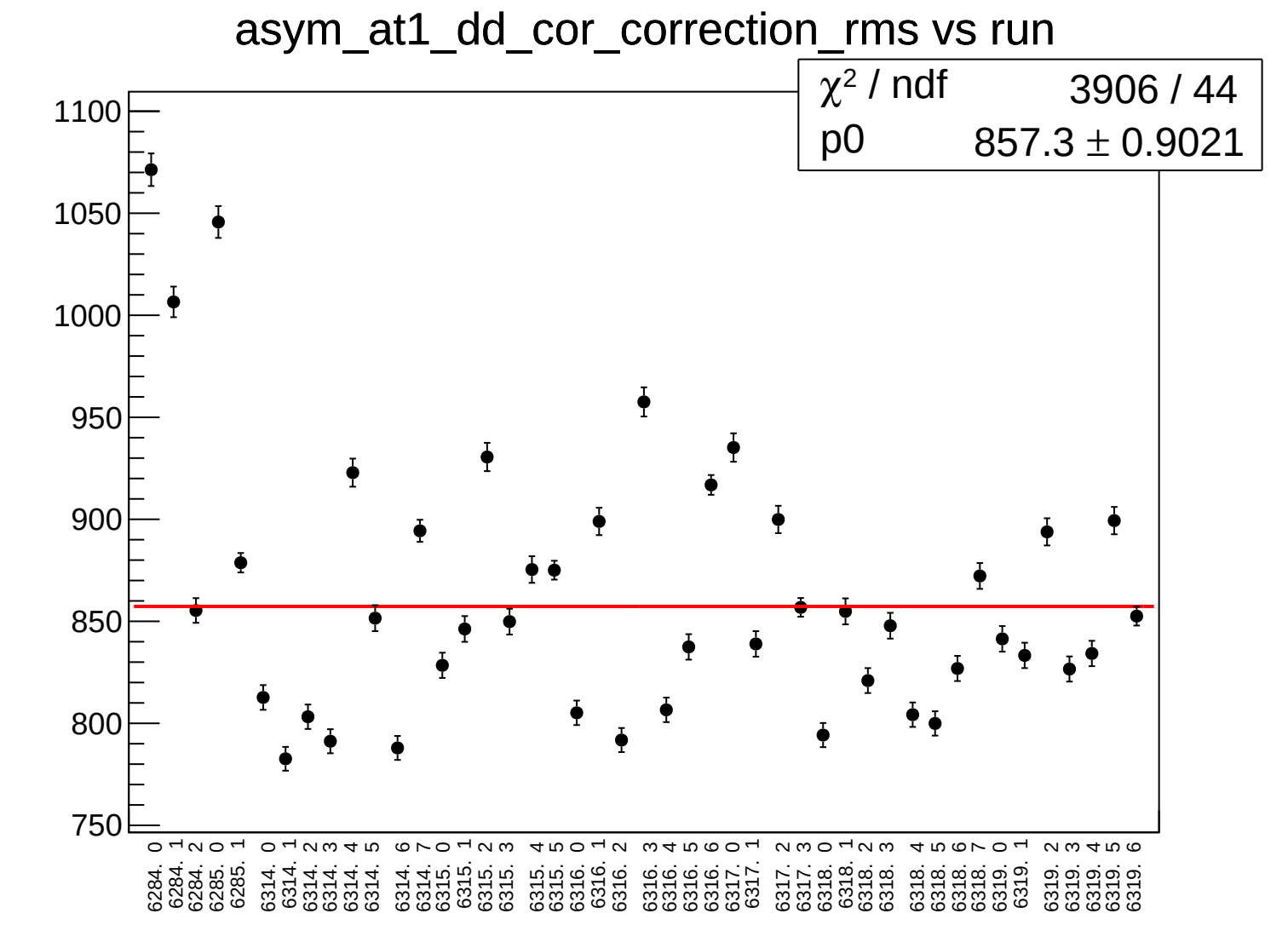
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3906 / 44
p0 857.3 ± 0.9021
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
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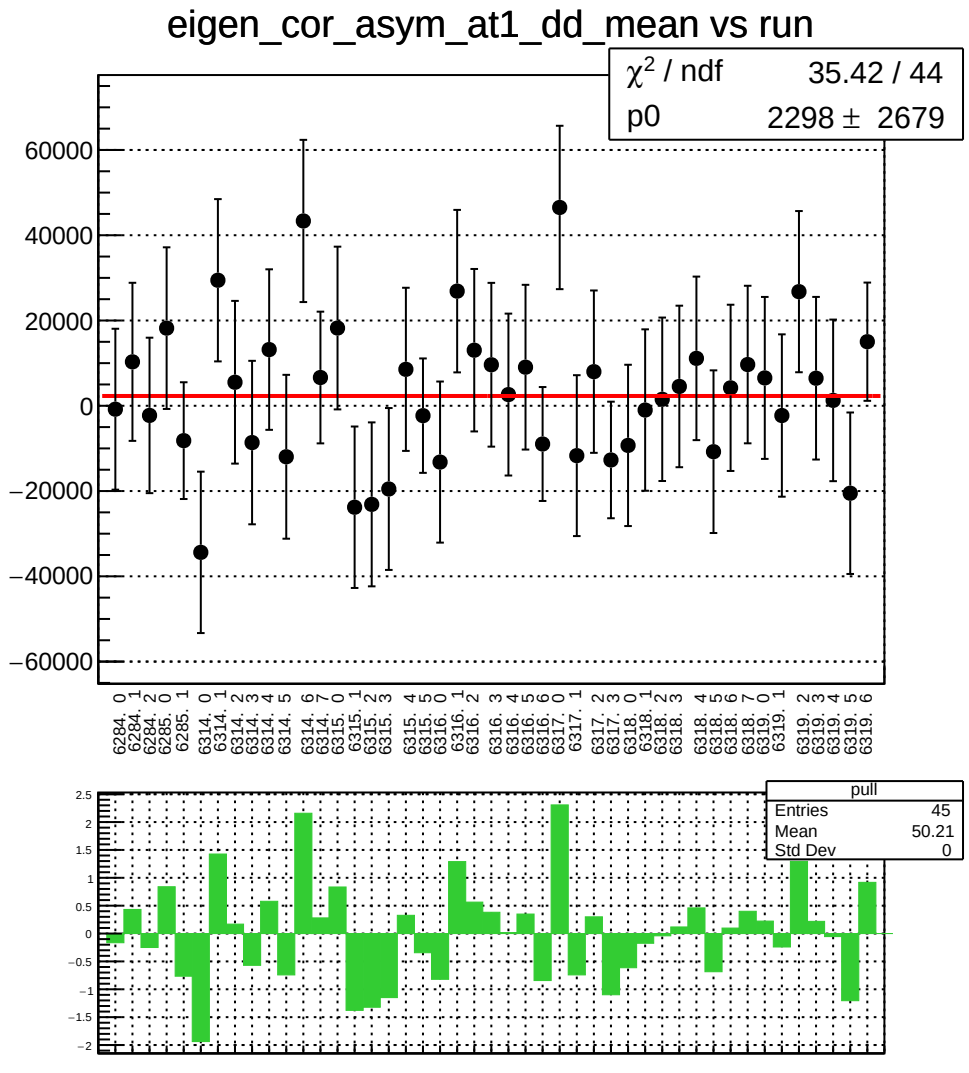
eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 35.42 / 44
p0 2298 ± 2679
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6316. 6
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6317. 2
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6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01881
Std Dev 0.887
12
10
8
6
4
2
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−8
−6
−4
−2
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2
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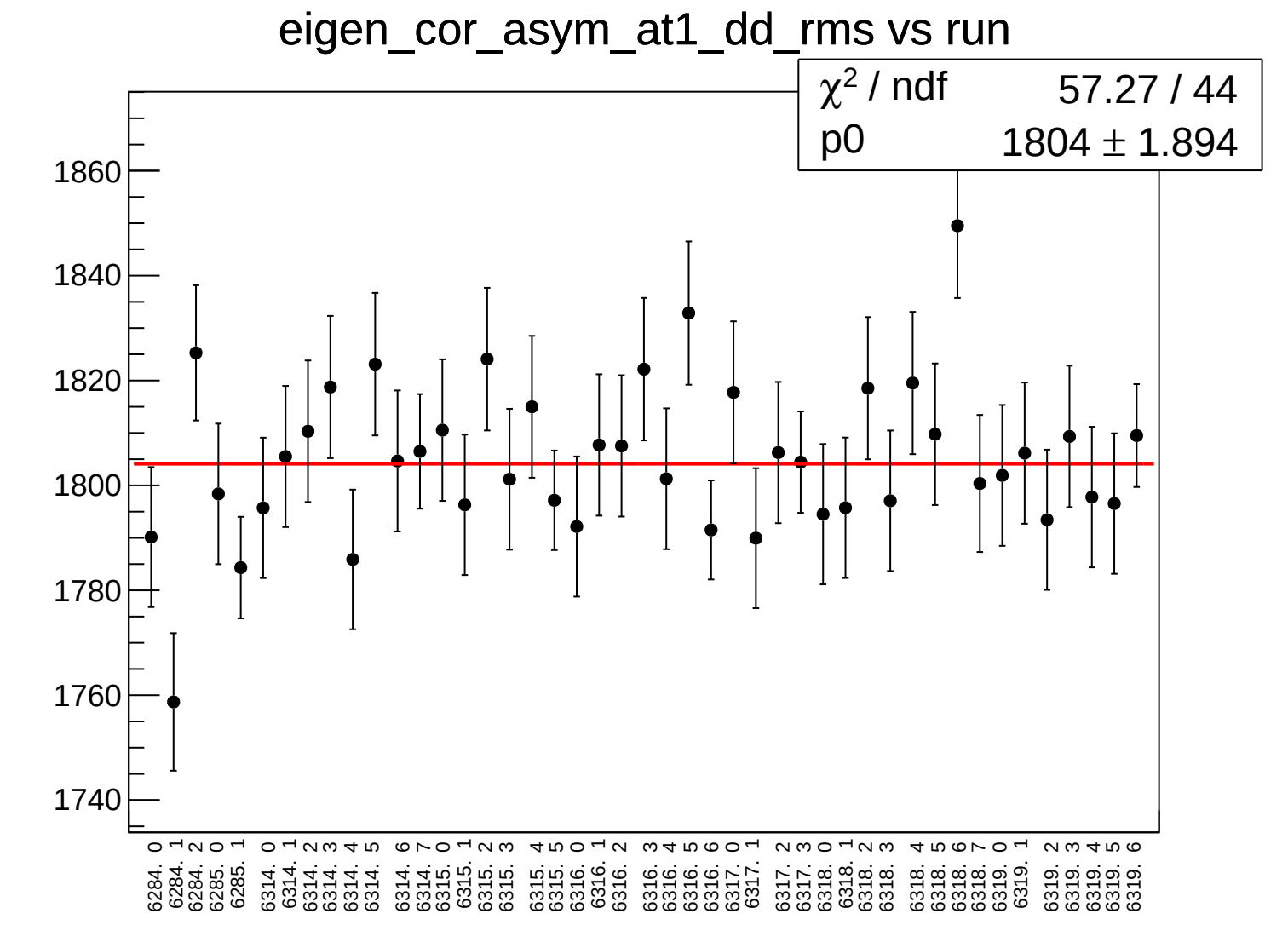
6
8


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 57.27 / 44
p0 1804 ± 1.894
1860
1840
1820
1800
1780
1760
1740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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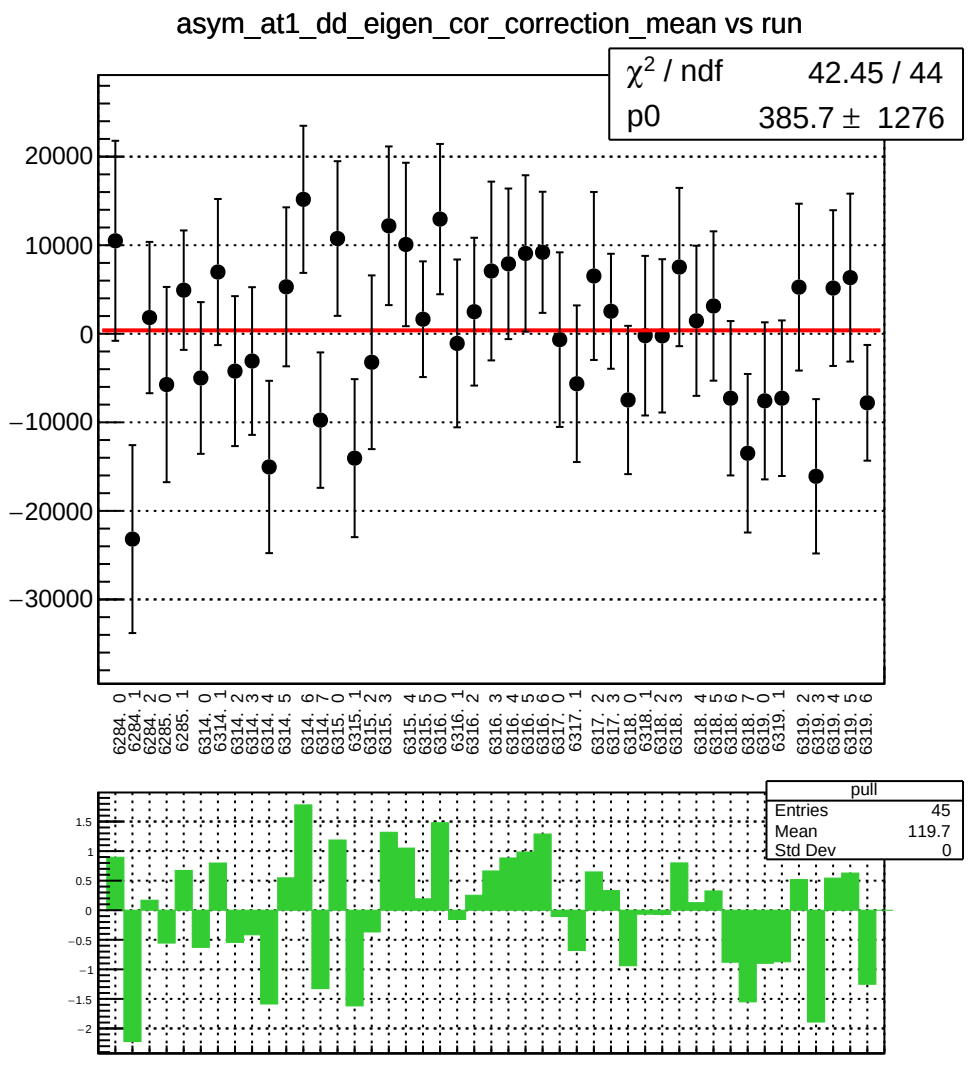
asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.45 / 44
p0 385.7 ± 1276
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
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6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 119.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01187
Std Dev 0.9711
8
7
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5
4
3
2
1
0
−8
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−4
−2
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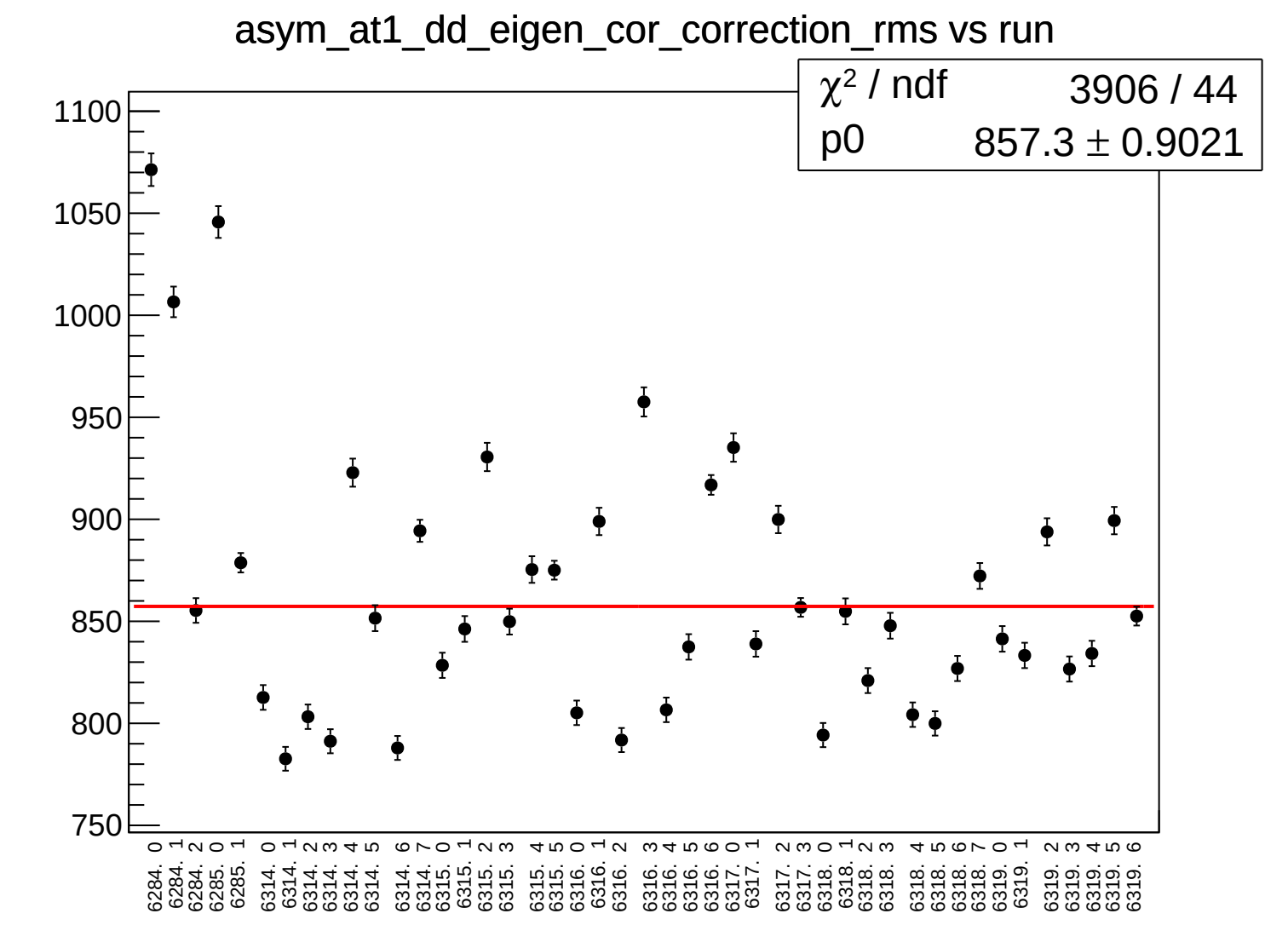
2
4
6
8


asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3906 / 44
p0 857.3 ± 0.9021
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
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6314. 5
6314. 6
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6315. 4
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
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6318. 0
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6318. 2
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6318. 4
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6318. 7
6319. 0
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6319. 2
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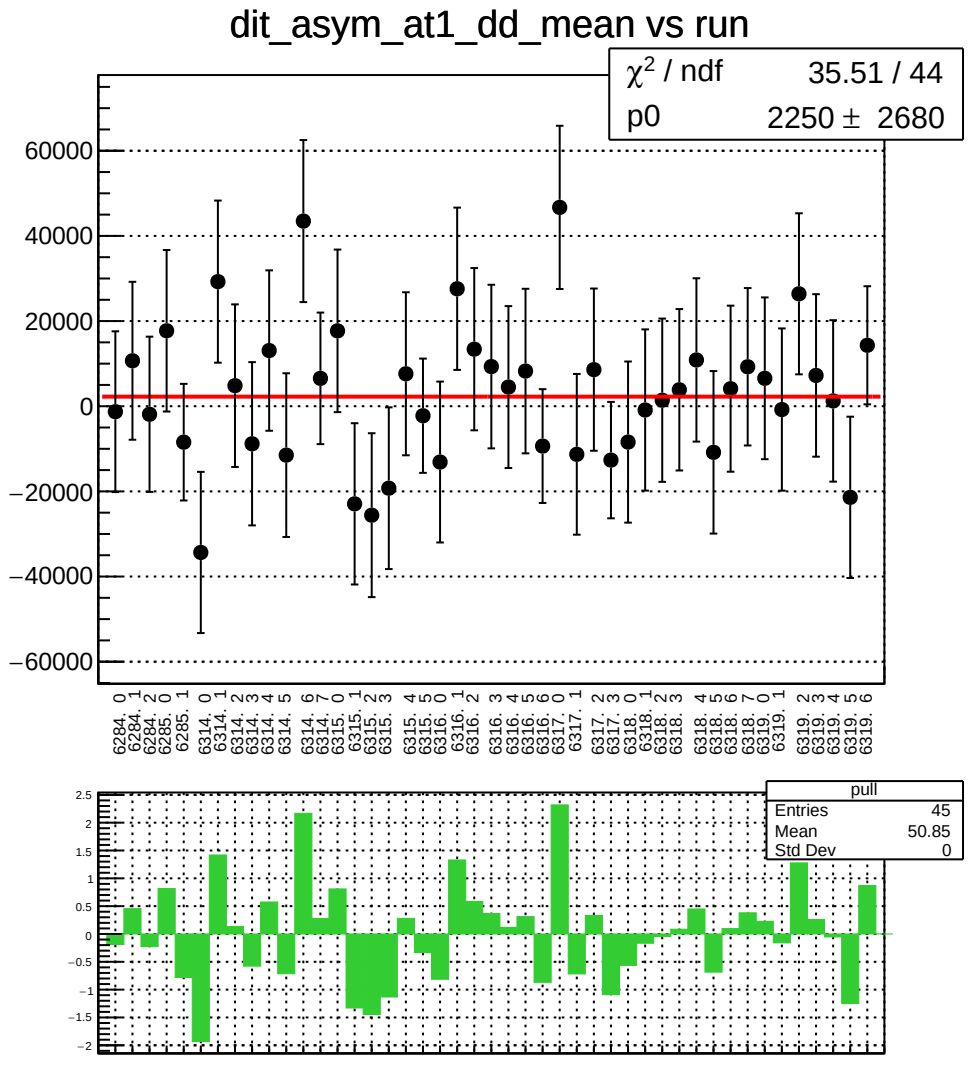
6319. 5
6319. 6


dit_asym_at1_dd_mean vs run
χ² / ndf 35.51 / 44
p0 2250 ± 2680
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
6317. 0
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6317. 3
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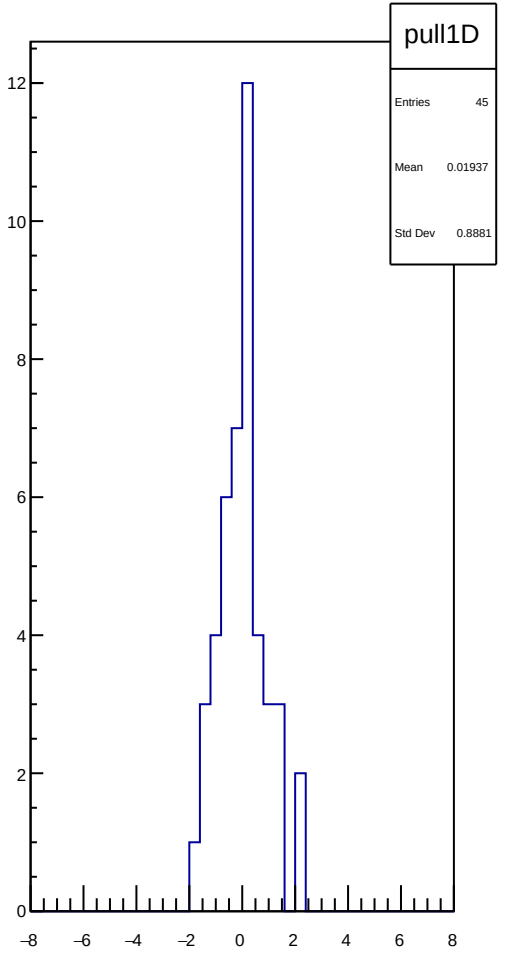
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01937
Std Dev 0.8881
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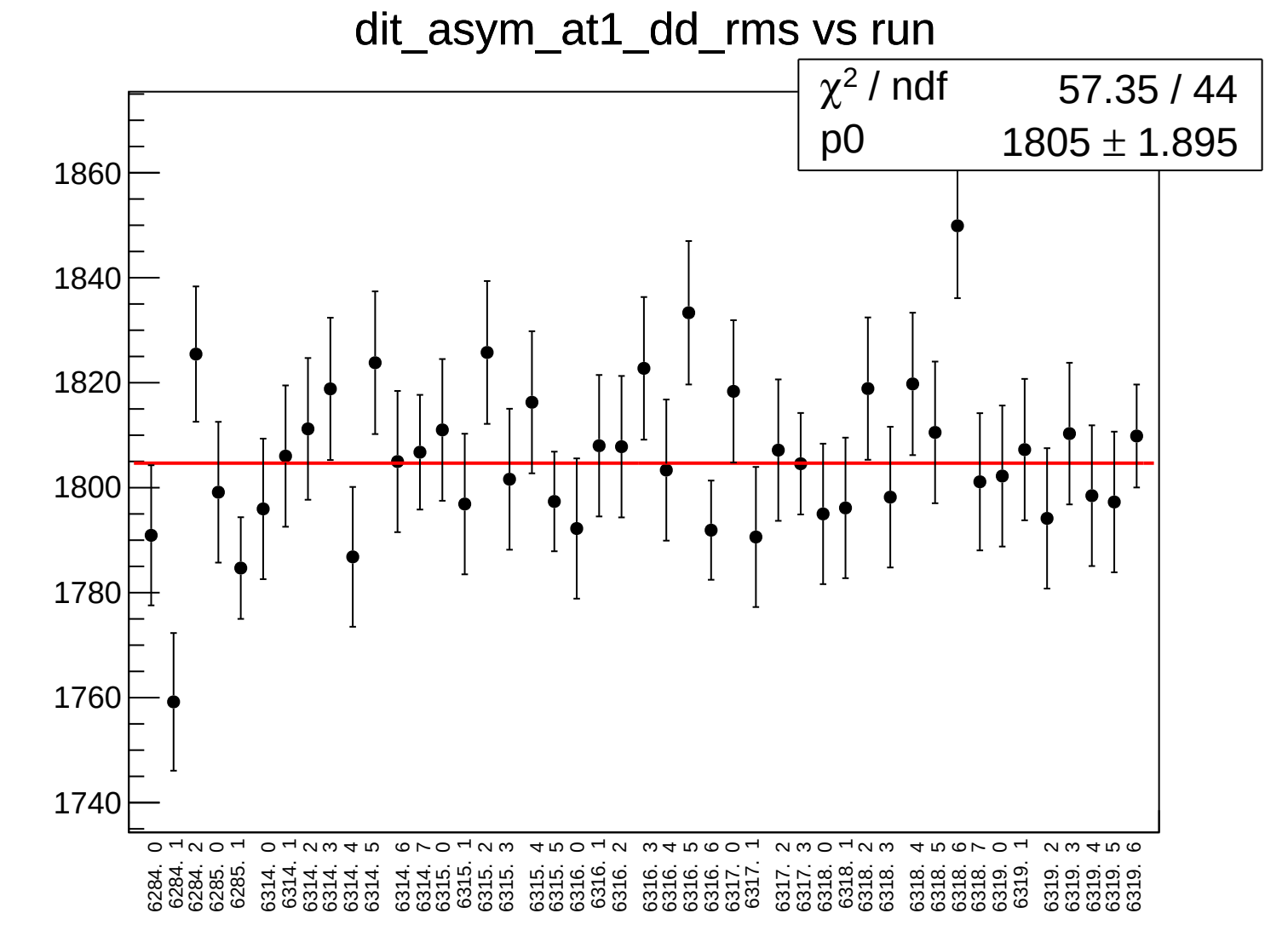
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_rms vs run
χ² / ndf 57.35 / 44
p0 1805 ± 1.895
1860
1840
1820
1800
1780
1760
1740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
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6318. 2
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6319. 2
6319. 3
6319. 4
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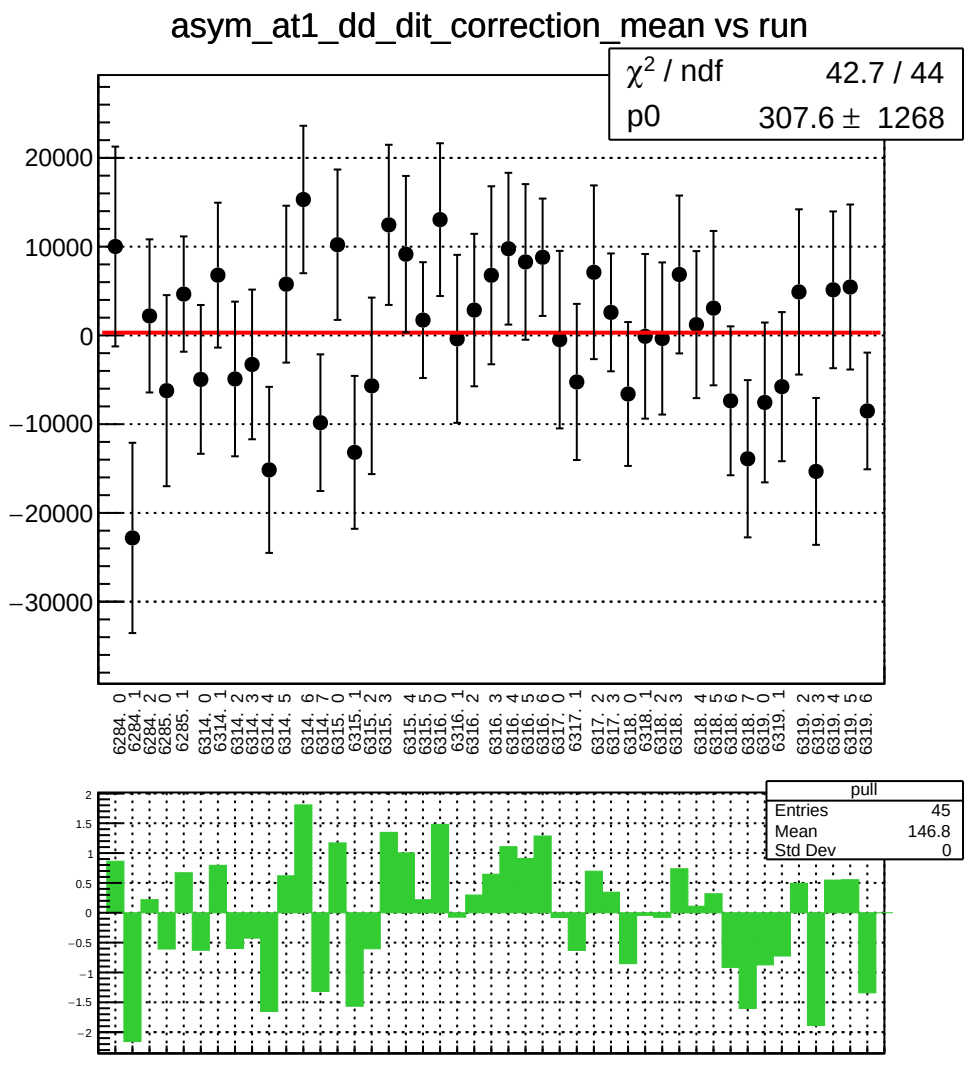
6319. 6


asym_at1_dd_dit_correction_mean vs run
χ² / ndf 42.7 / 44
p0 307.6 ± 1268
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 146.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009352
Std Dev 0.974
9
8
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6
5
4
3
2
1
0
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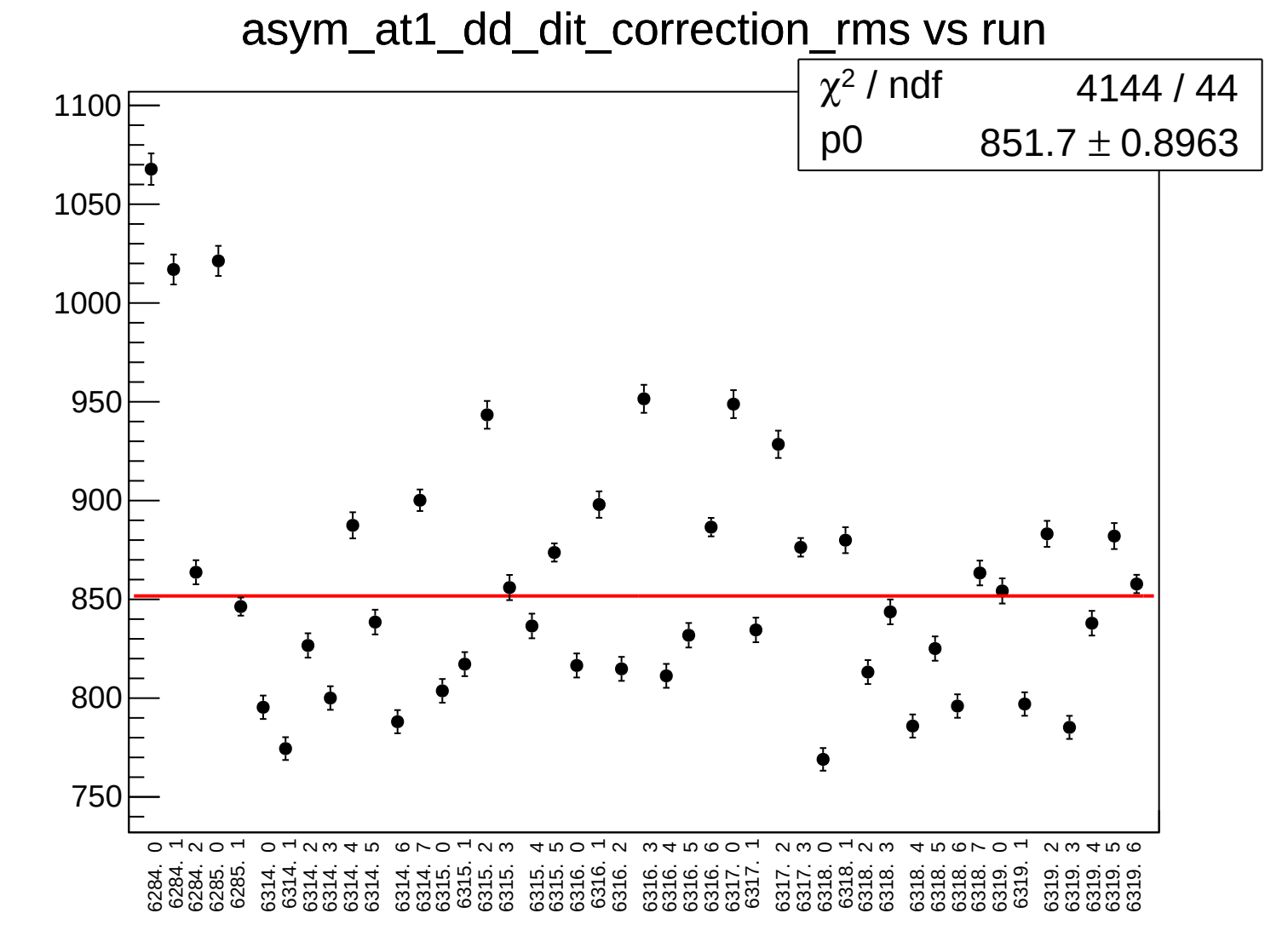
−6
−4
−2
0
2
4
6
8


asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4144 / 44
p0 851.7 ± 0.8963
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
6319. 1
6319. 2
6319. 3
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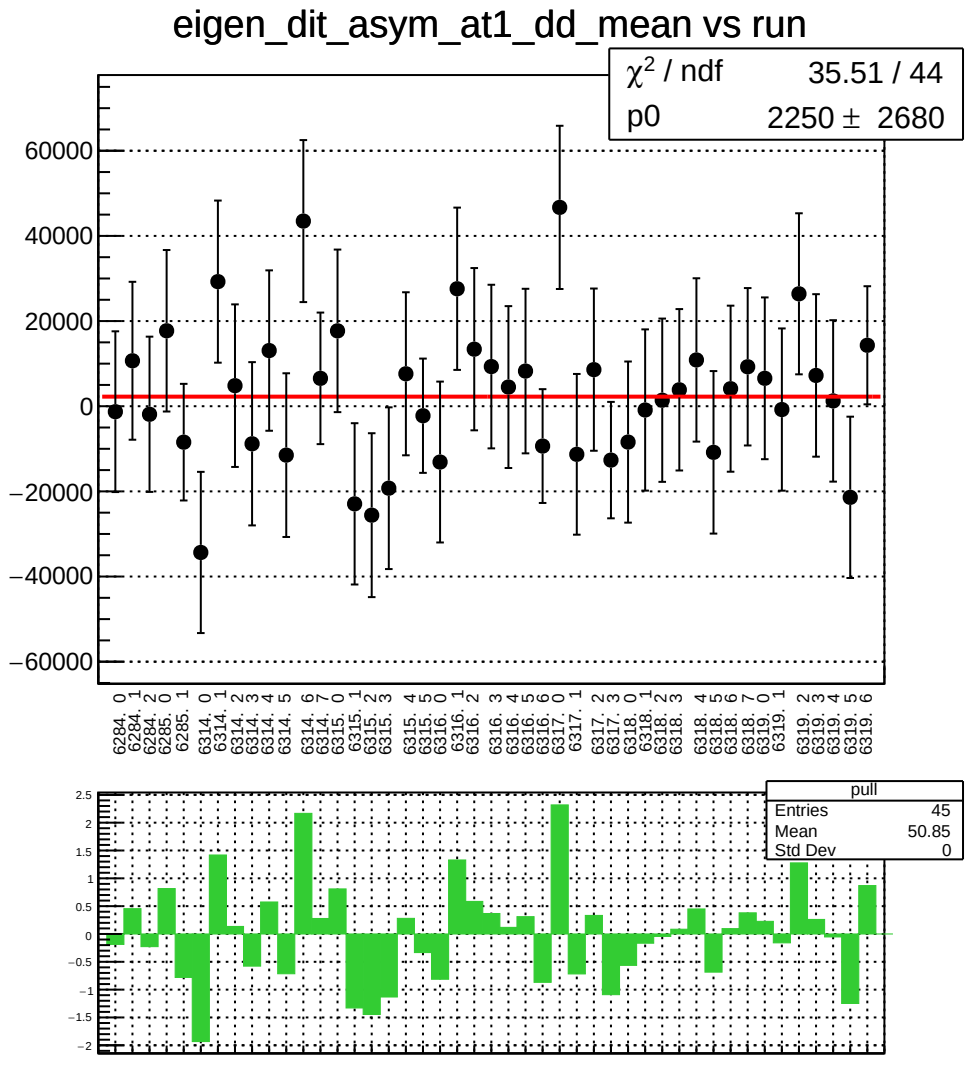
6319. 6


eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 35.51 / 44
p0 2250 ± 2680
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6316. 1
6316. 2
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6317. 2
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6318. 6
6318. 7
6319. 0
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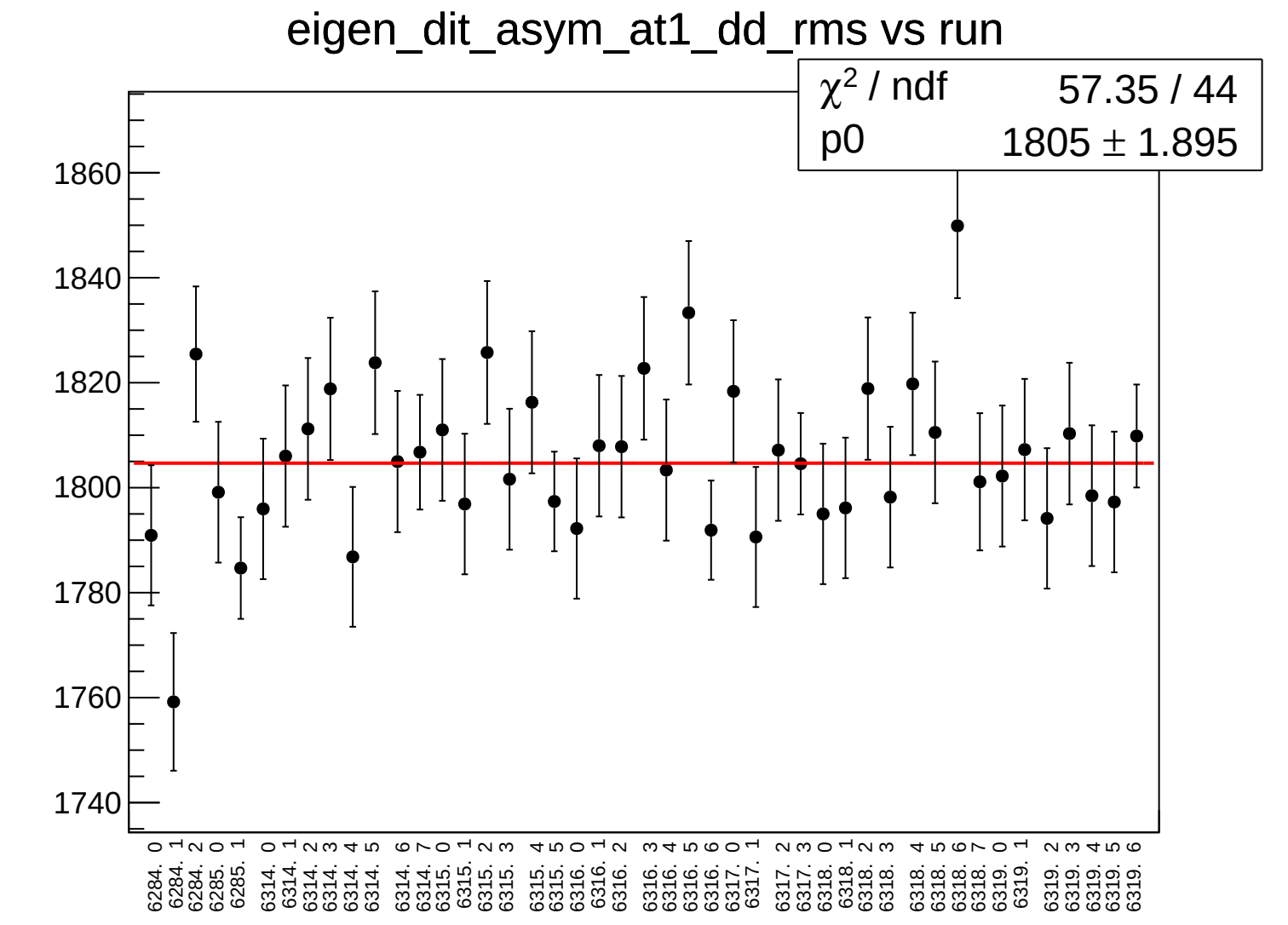
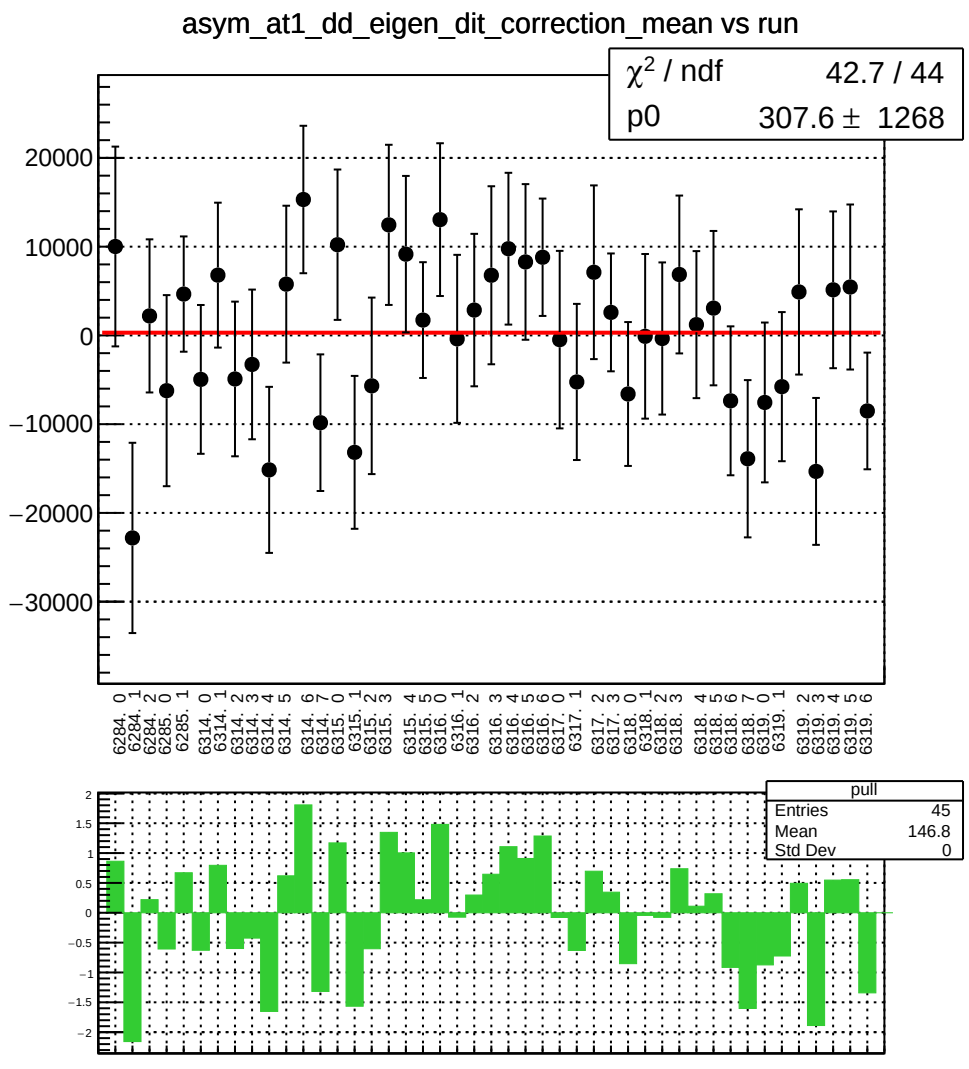
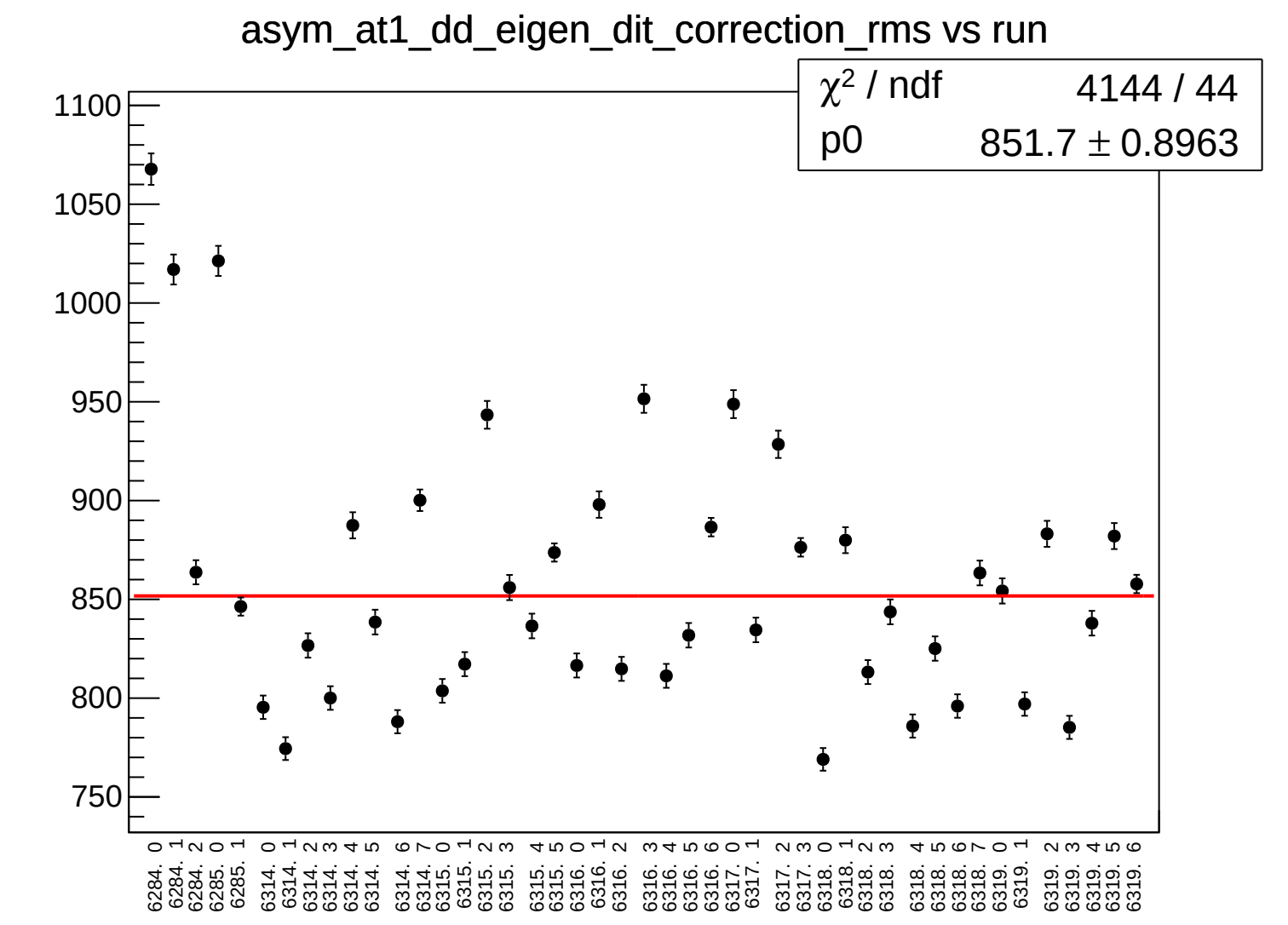
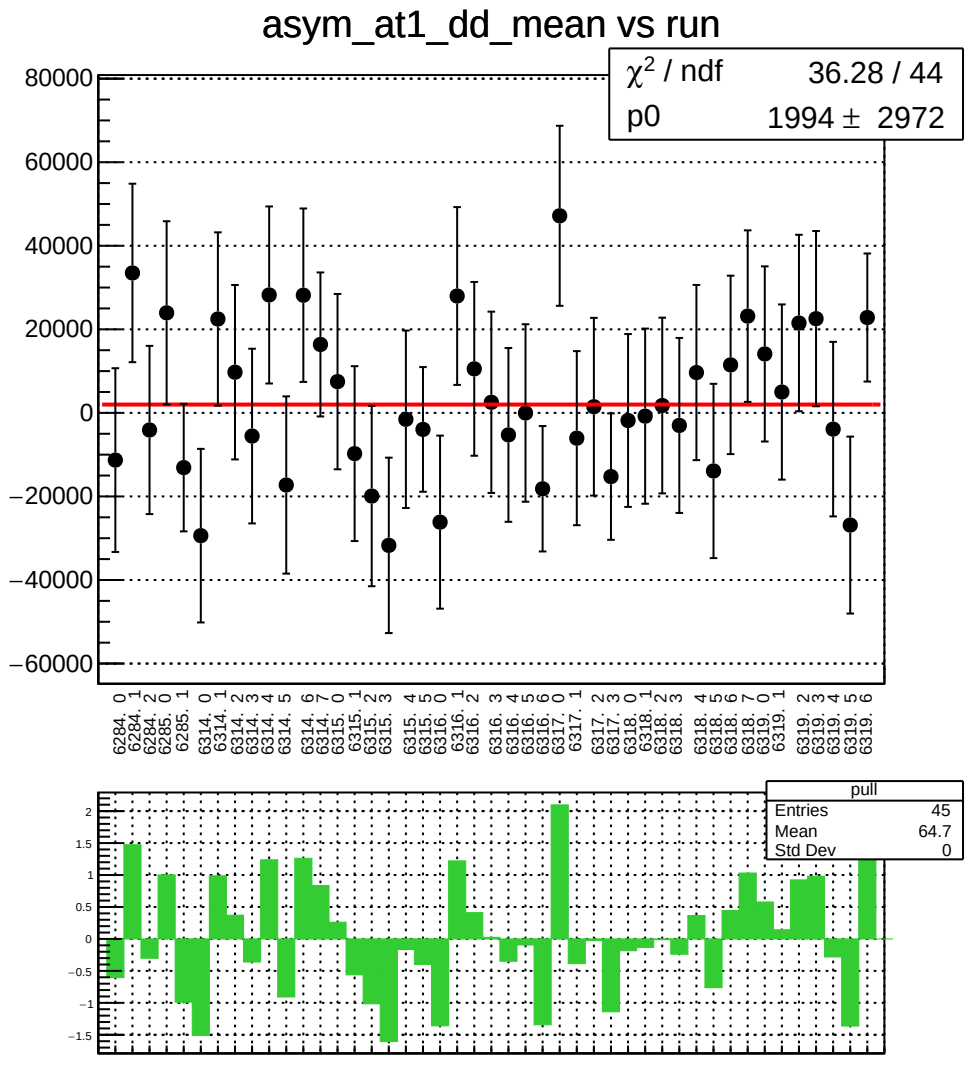
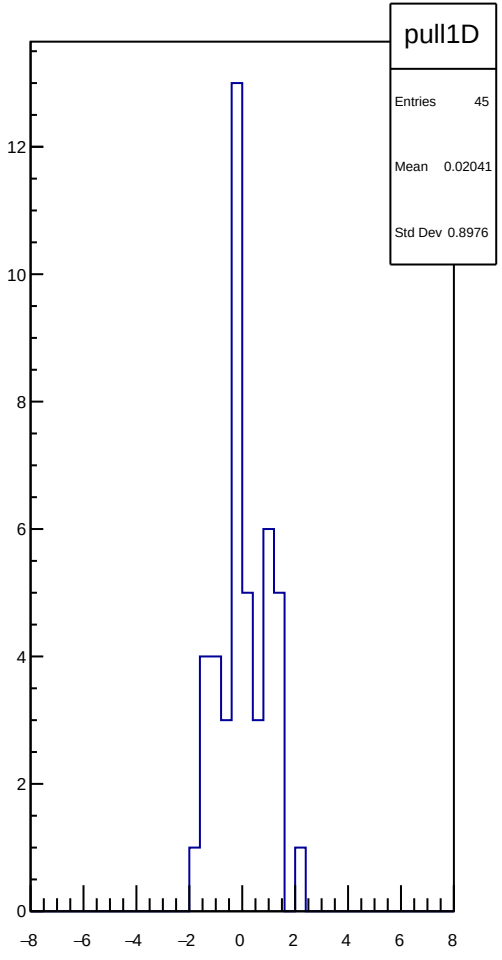
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01937
Std Dev 0.8881
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

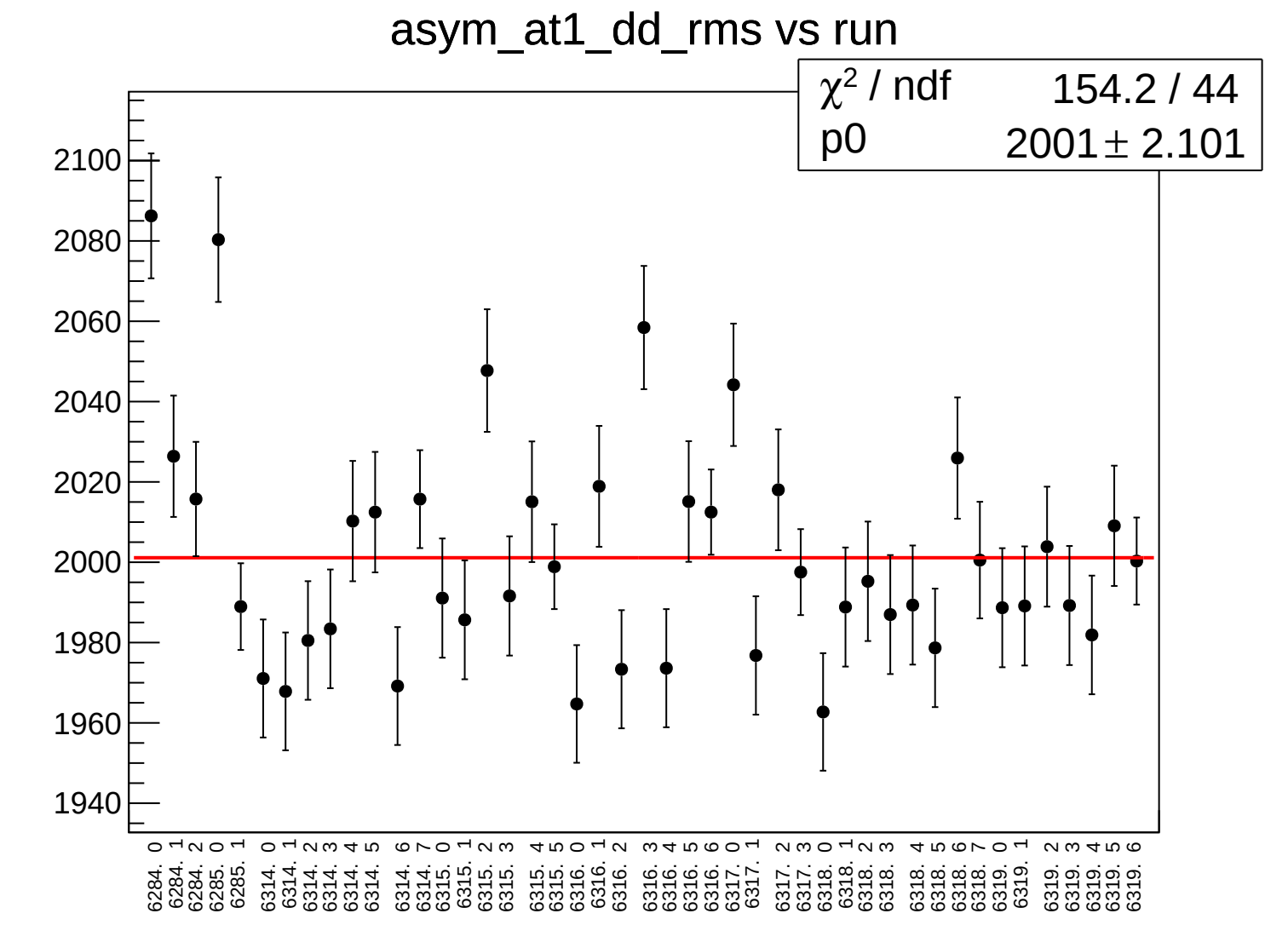

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 57.35 / 44
p0 1805 ± 1.895
1860
1840
1820
1800
1780
1760
1740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

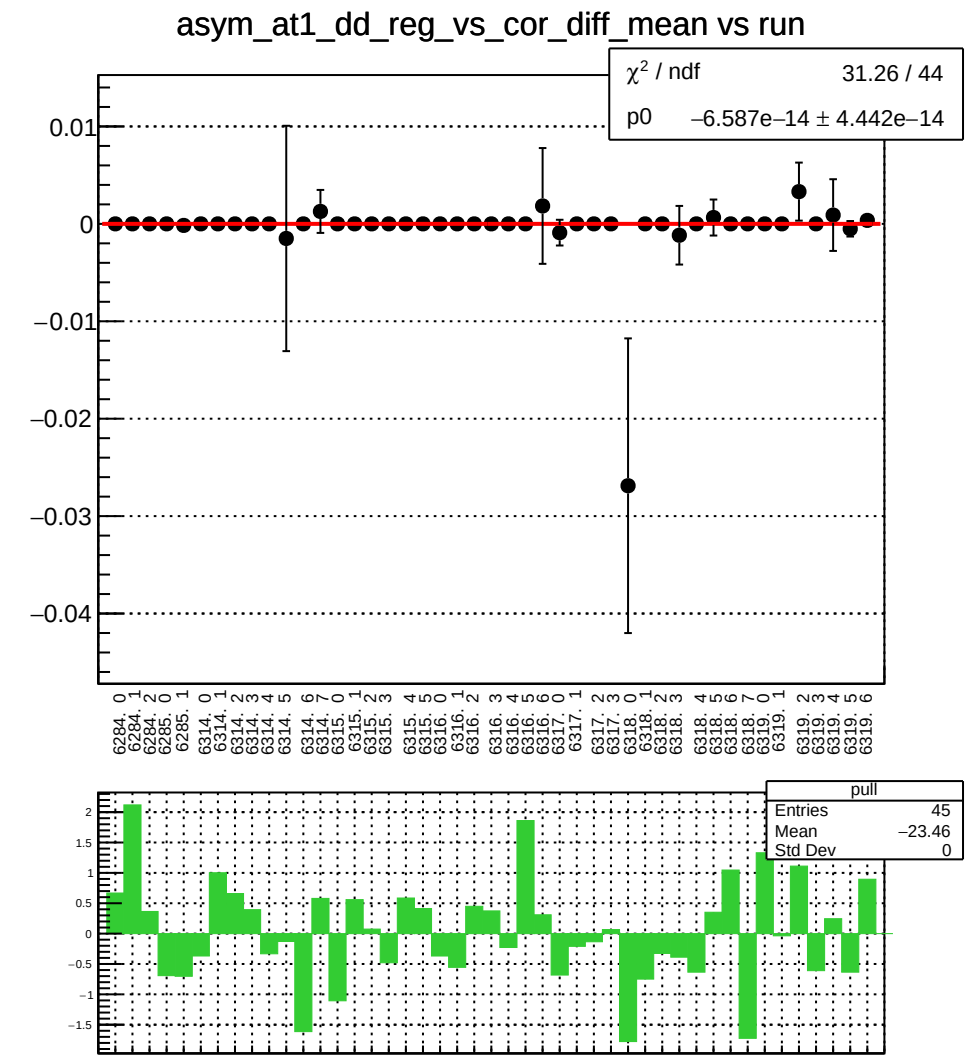

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.7 / 44
p0 307.6 ± 1268
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 146.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009352
Std Dev 0.974
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

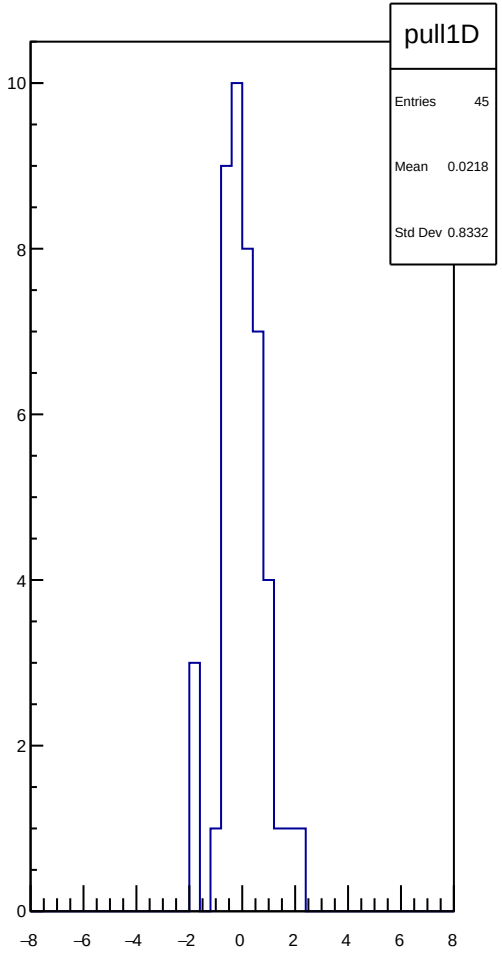

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4144 / 44
p0 851.7 ± 0.8963
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

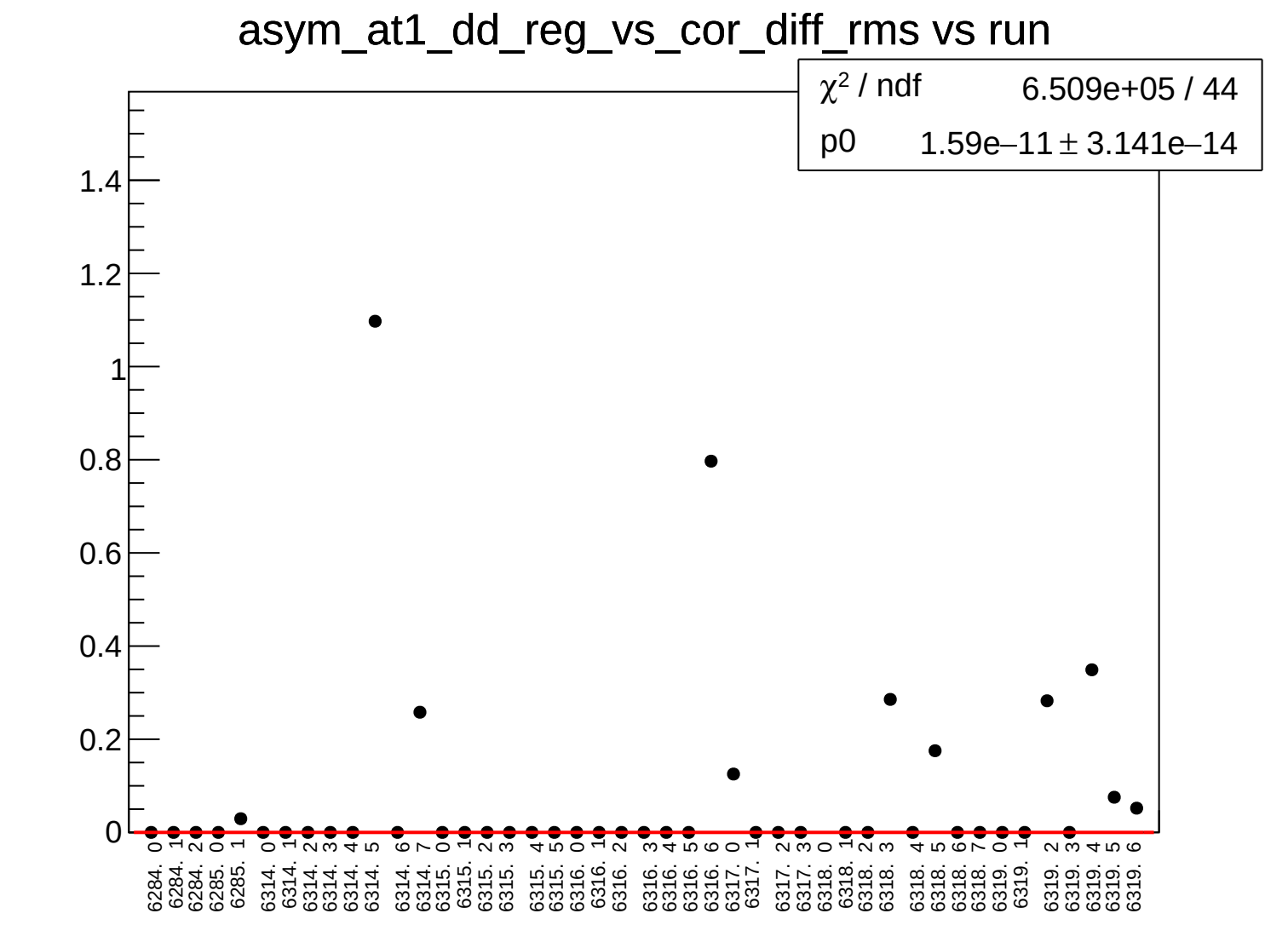

asym_at1_dd_mean vs run
χ² / ndf 36.28 / 44
p0 1994 ± 2972
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 64.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

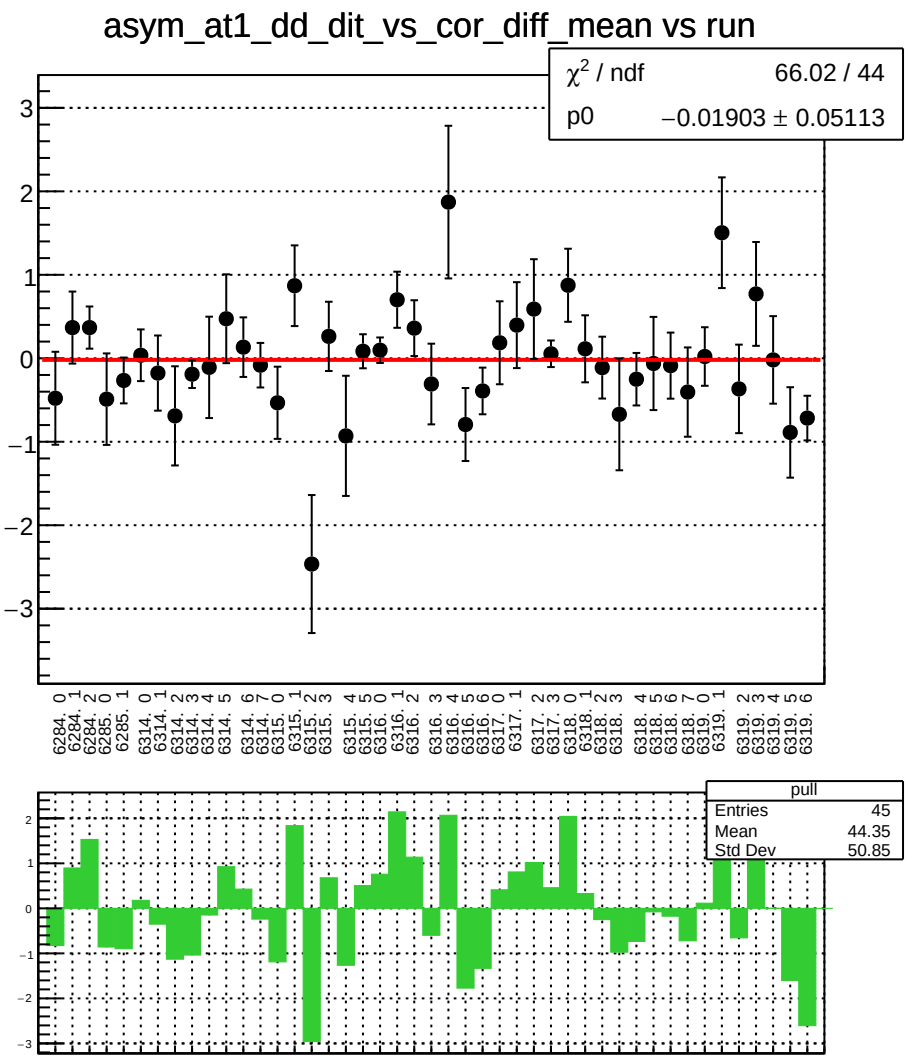

pull1D
Entries 45
Mean 0.02041
Std Dev 0.8976
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

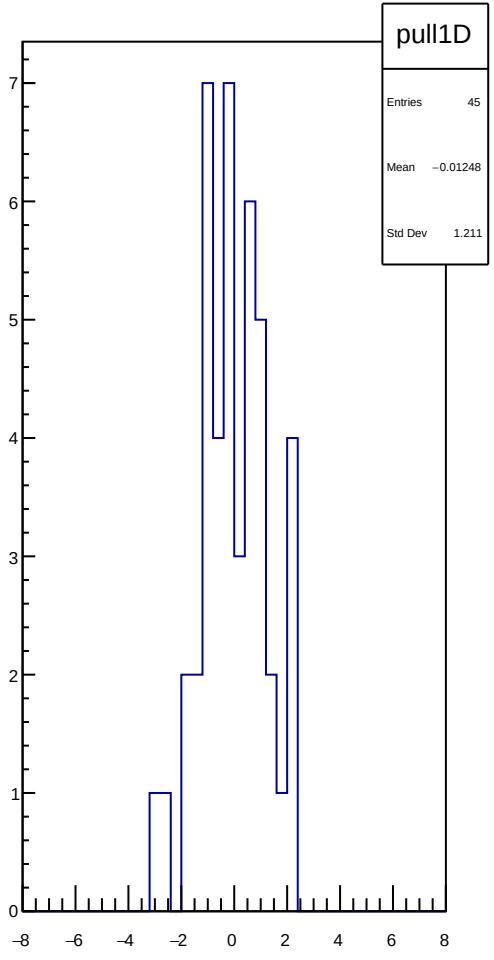

asym_at1_dd_rms vs run
χ² / ndf 154.2 / 44
p0 2001 ± 2.101
2100
2080
2060
2040
2020
2000
1980
1960
1940
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

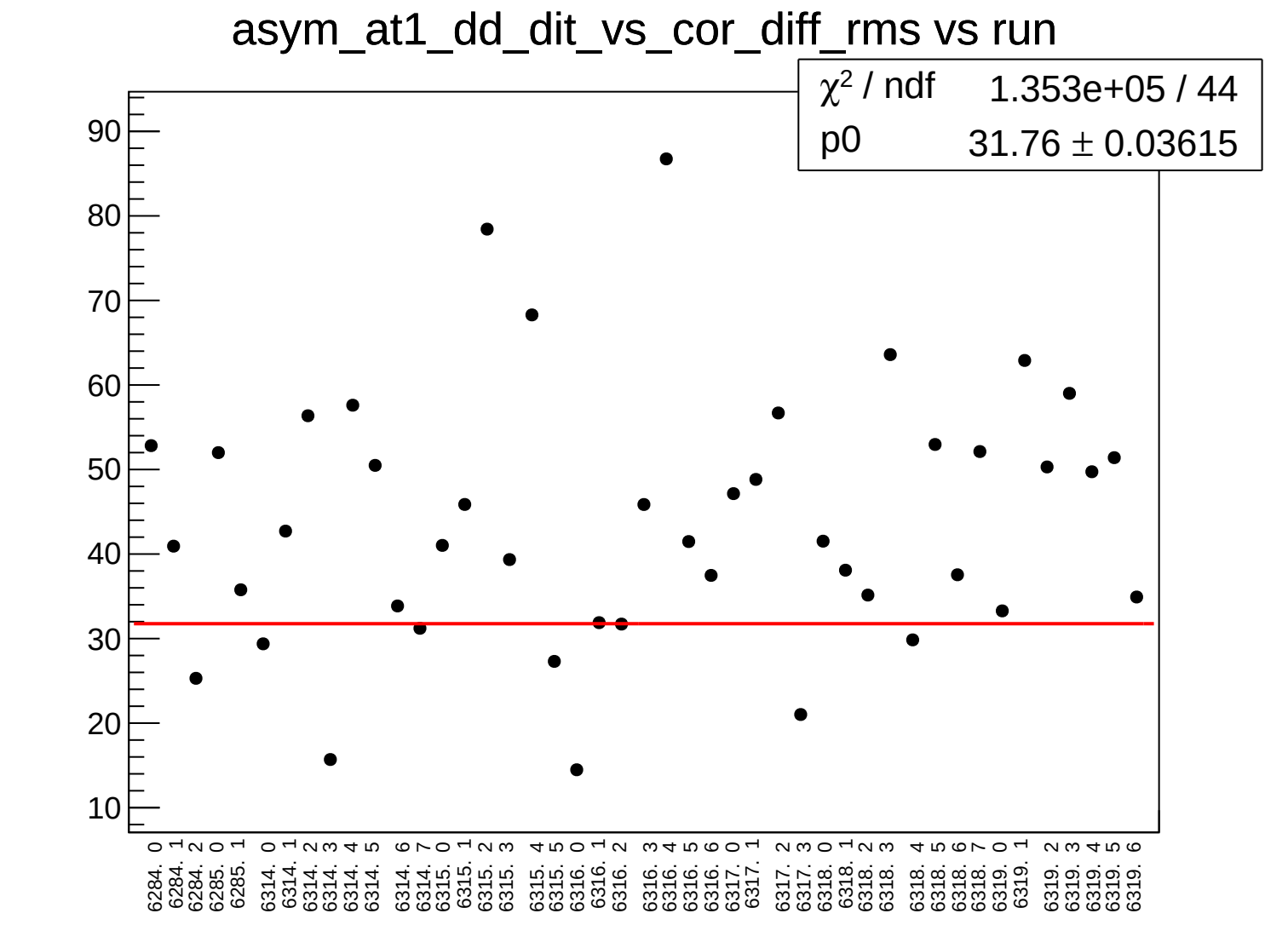

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.26 / 44
p0 −6.587e−14 ± 4.442e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −23.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0218
Std Dev 0.8332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.509e+05 / 44
p0 1.59e−11 ± 3.141e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.02 / 44
p0 −0.01903 ± 0.05113
pull
Entries 45
Mean 44.35
Std Dev 50.85


pull1D
Entries 45
Mean −0.01248
Std Dev 1.211


asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.353e+05 / 44
p0 31.76 ± 0.03615
90
80
70
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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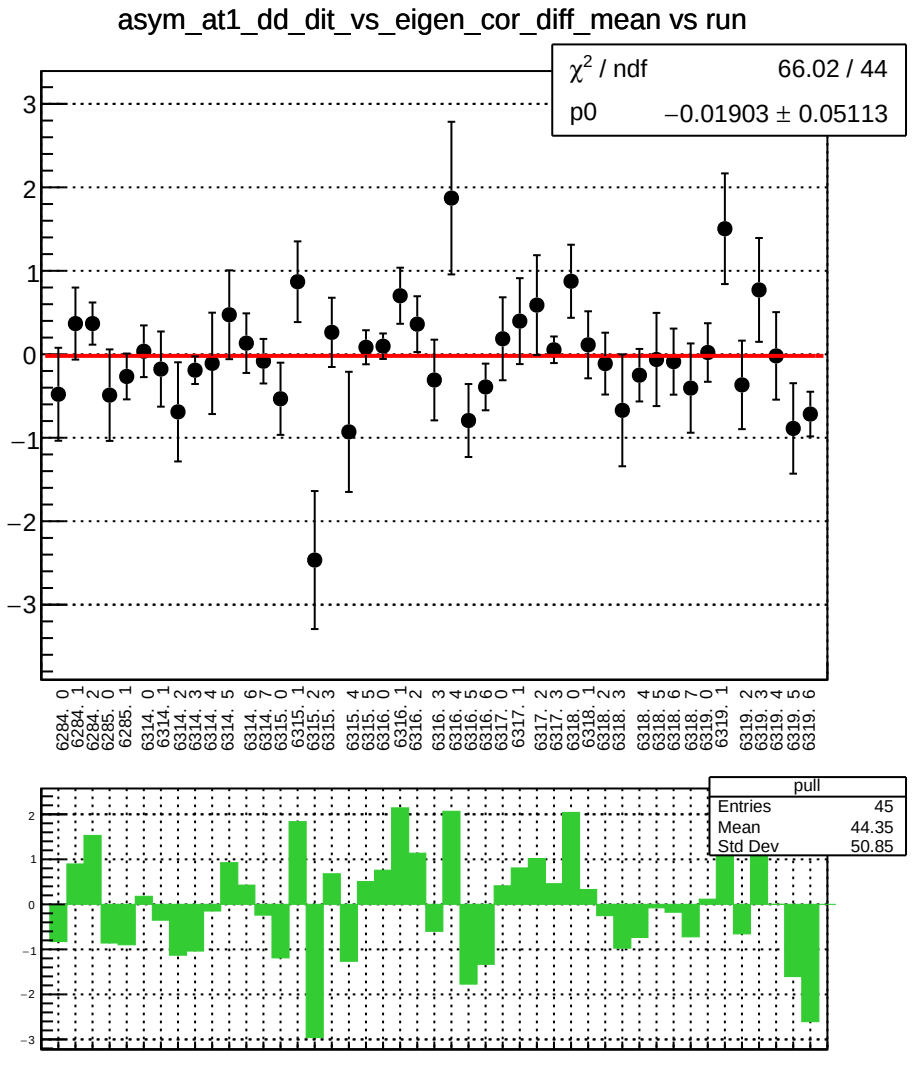
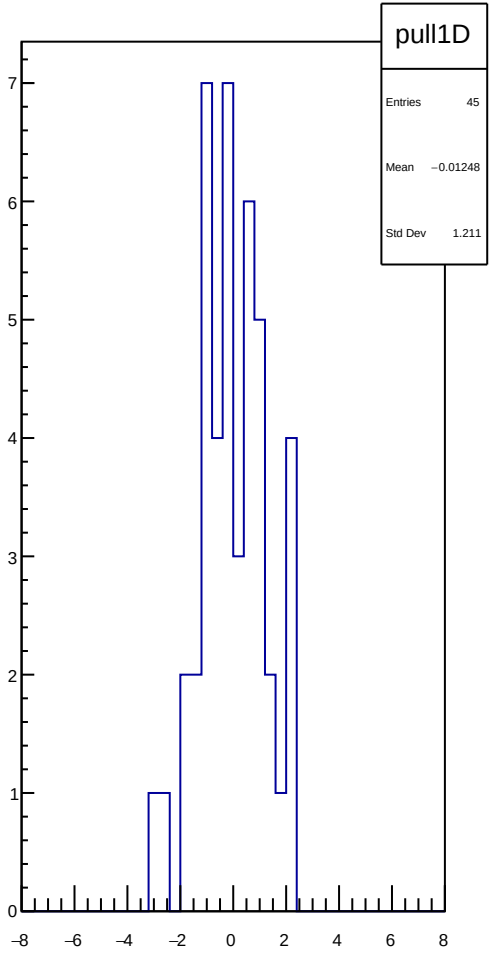
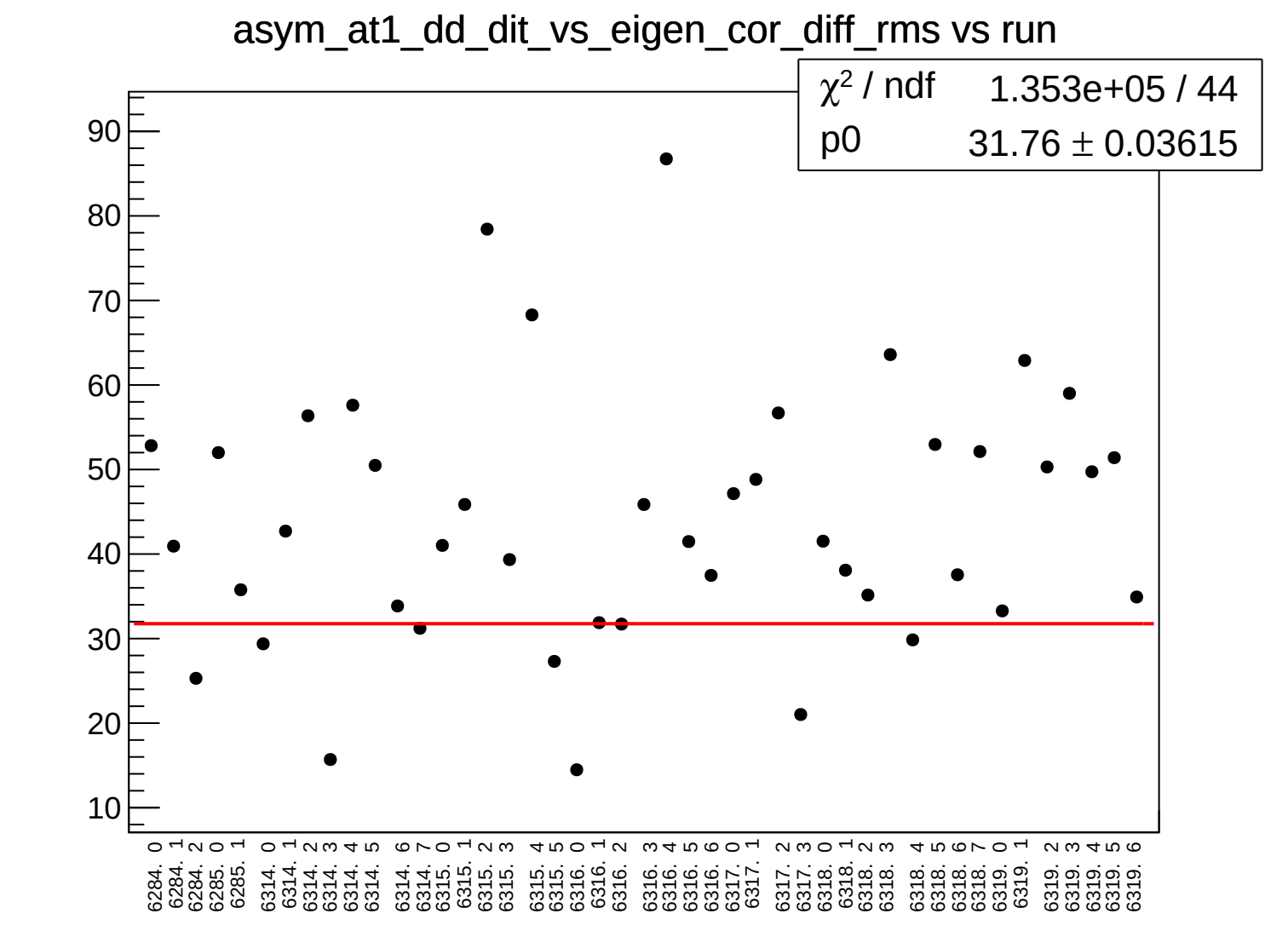
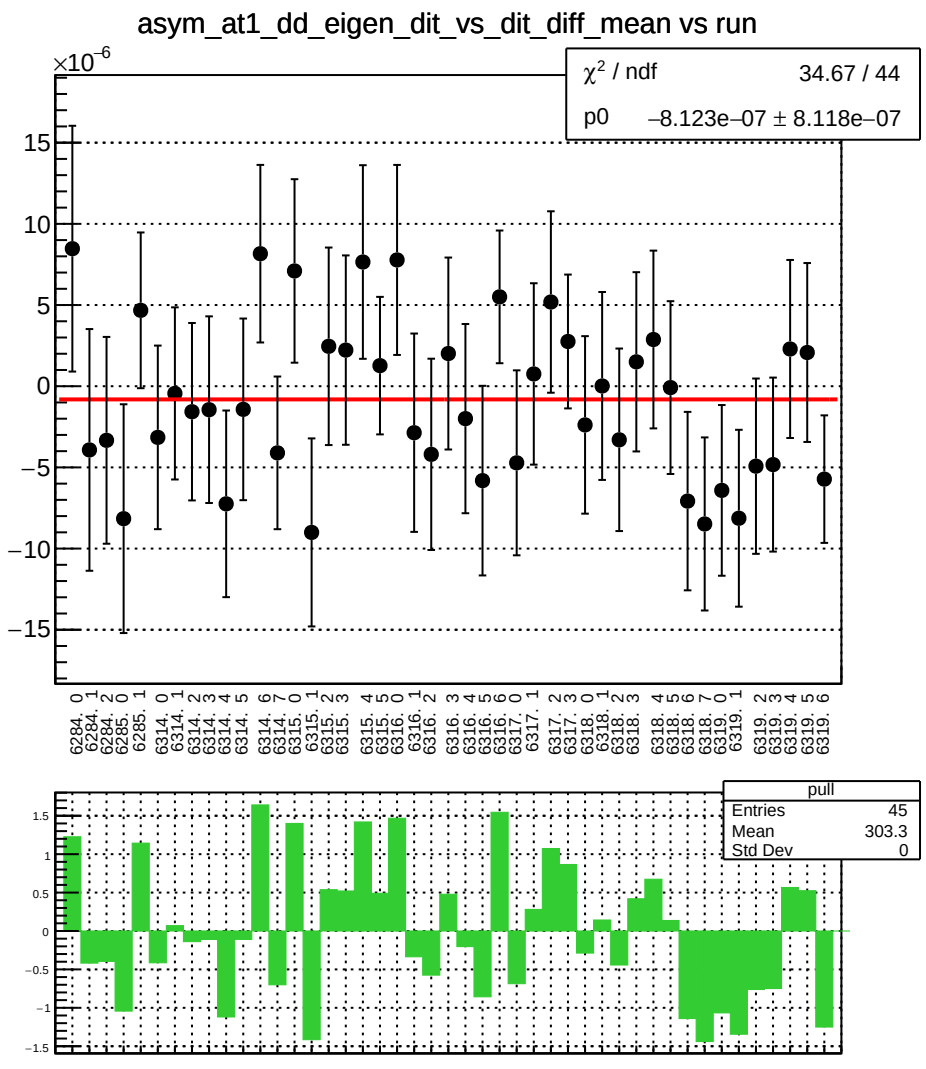
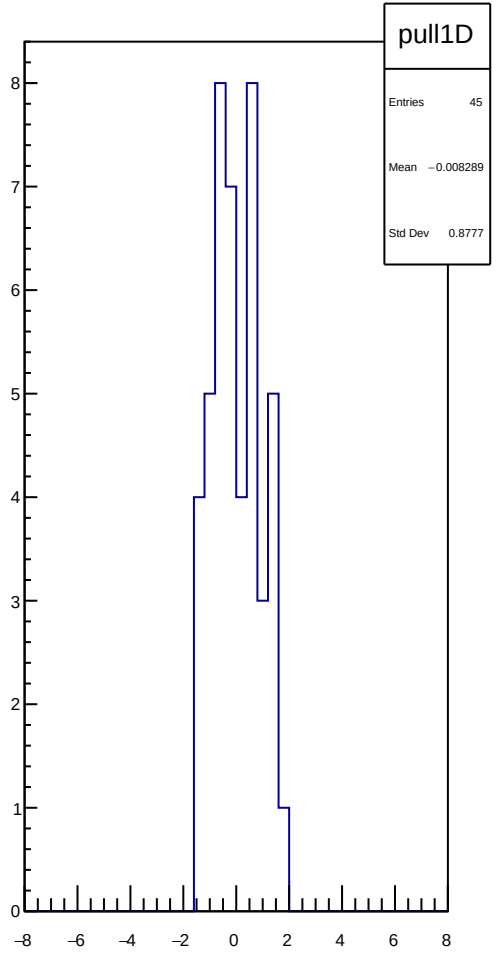
6319. 5
6319. 6

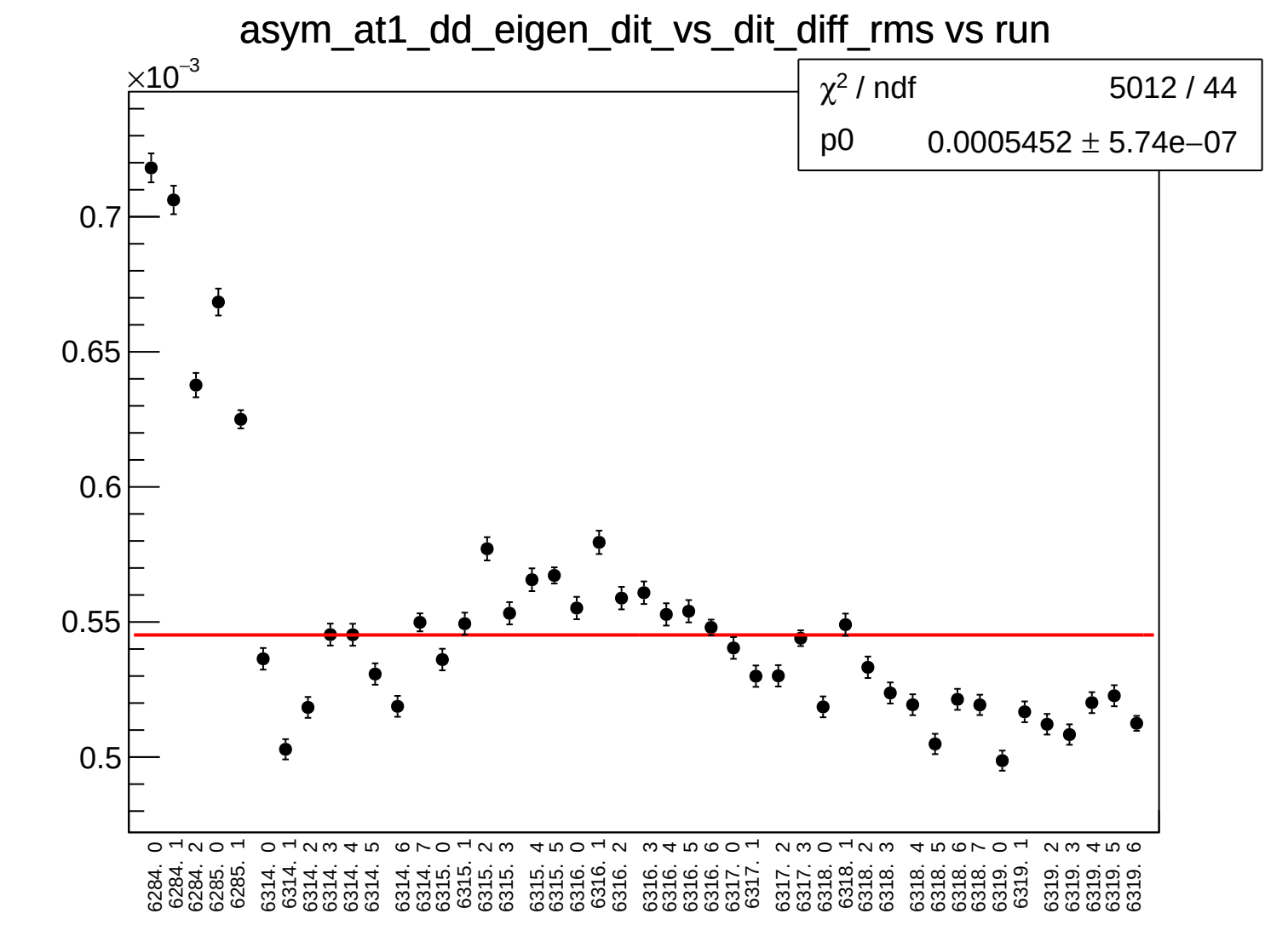

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.02 / 44
p0 −0.01903 ± 0.05113
pull
Entries 45
Mean 44.35
Std Dev 50.85

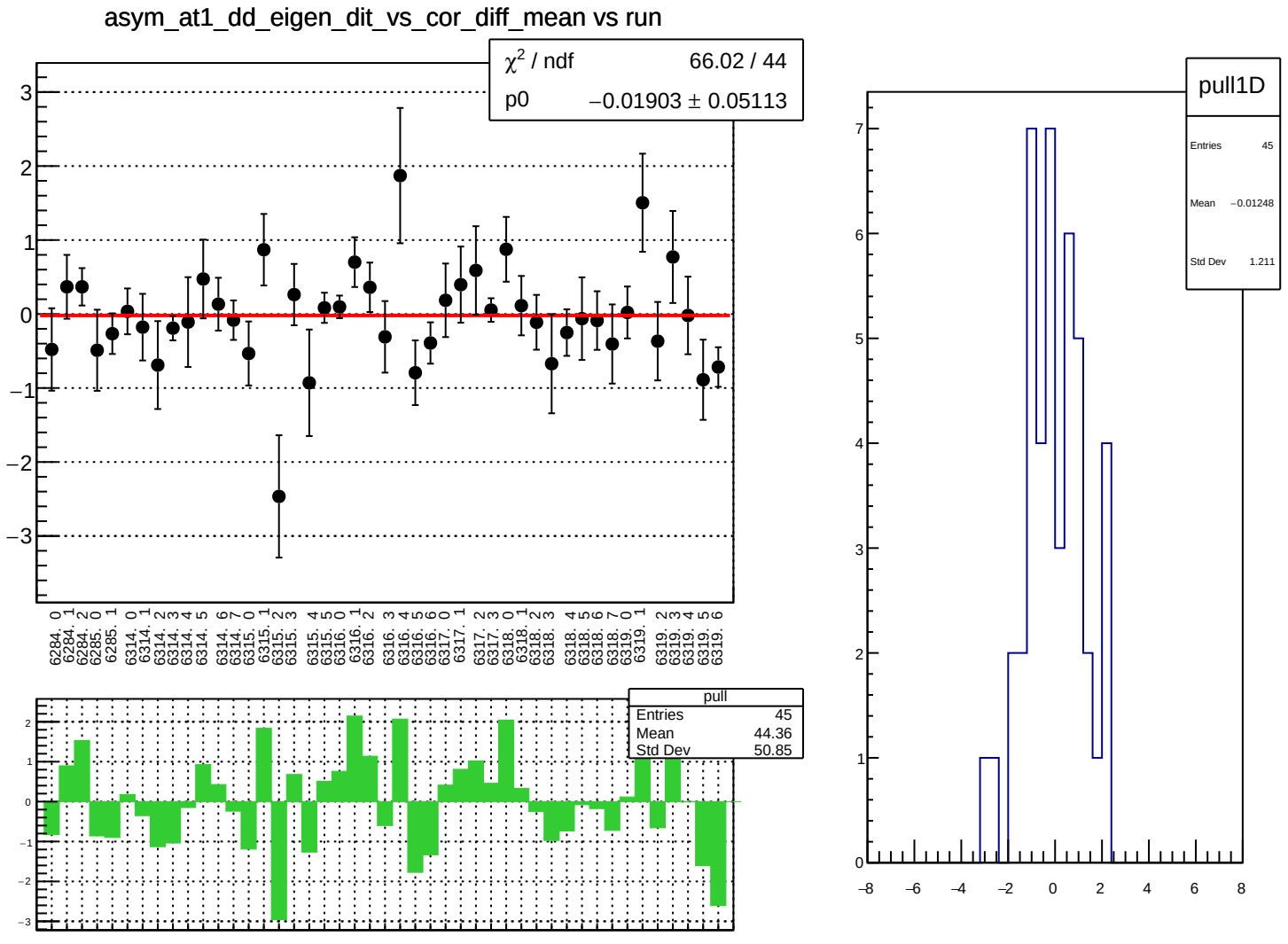

pull1D
Entries 45
Mean −0.01248
Std Dev 1.211

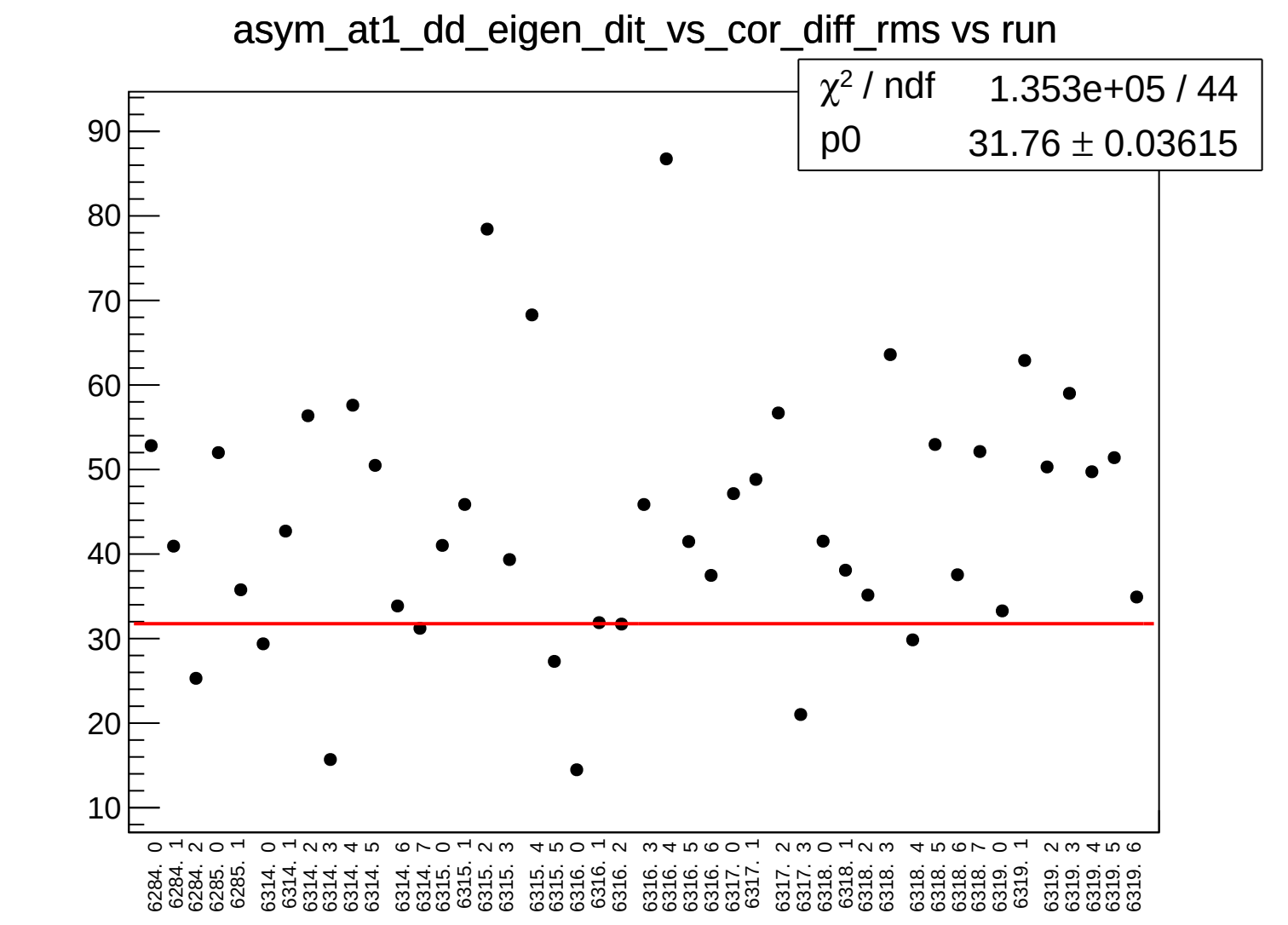

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.353e+05 / 44
p0 31.76 ± 0.03615
90
80
70
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 34.67 / 44
p0 −8.123e−07 ± 8.118e−07
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 303.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.008289
Std Dev 0.8777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5012 / 44
p0 0.0005452 ± 5.74e−07
0.7
0.65
0.6
0.55
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.02 / 44
p0 −0.01903 ± 0.05113
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.36
Std Dev 50.85
pull1D
Entries 45
Mean −0.01248
Std Dev 1.211


asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.353e+05 / 44
p0 31.76 ± 0.03615
90
80
70
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 0
6316. 1
6316. 2
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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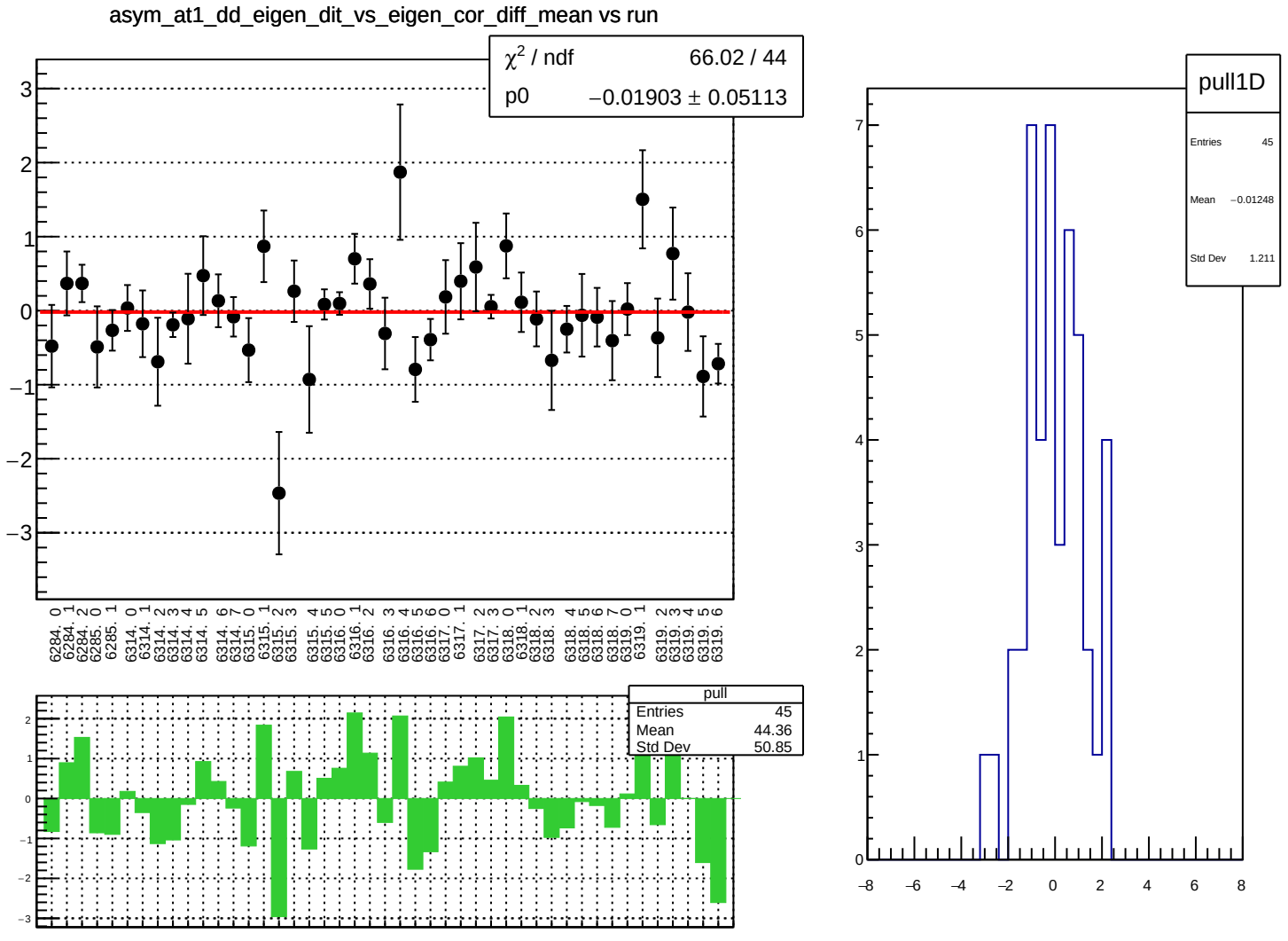
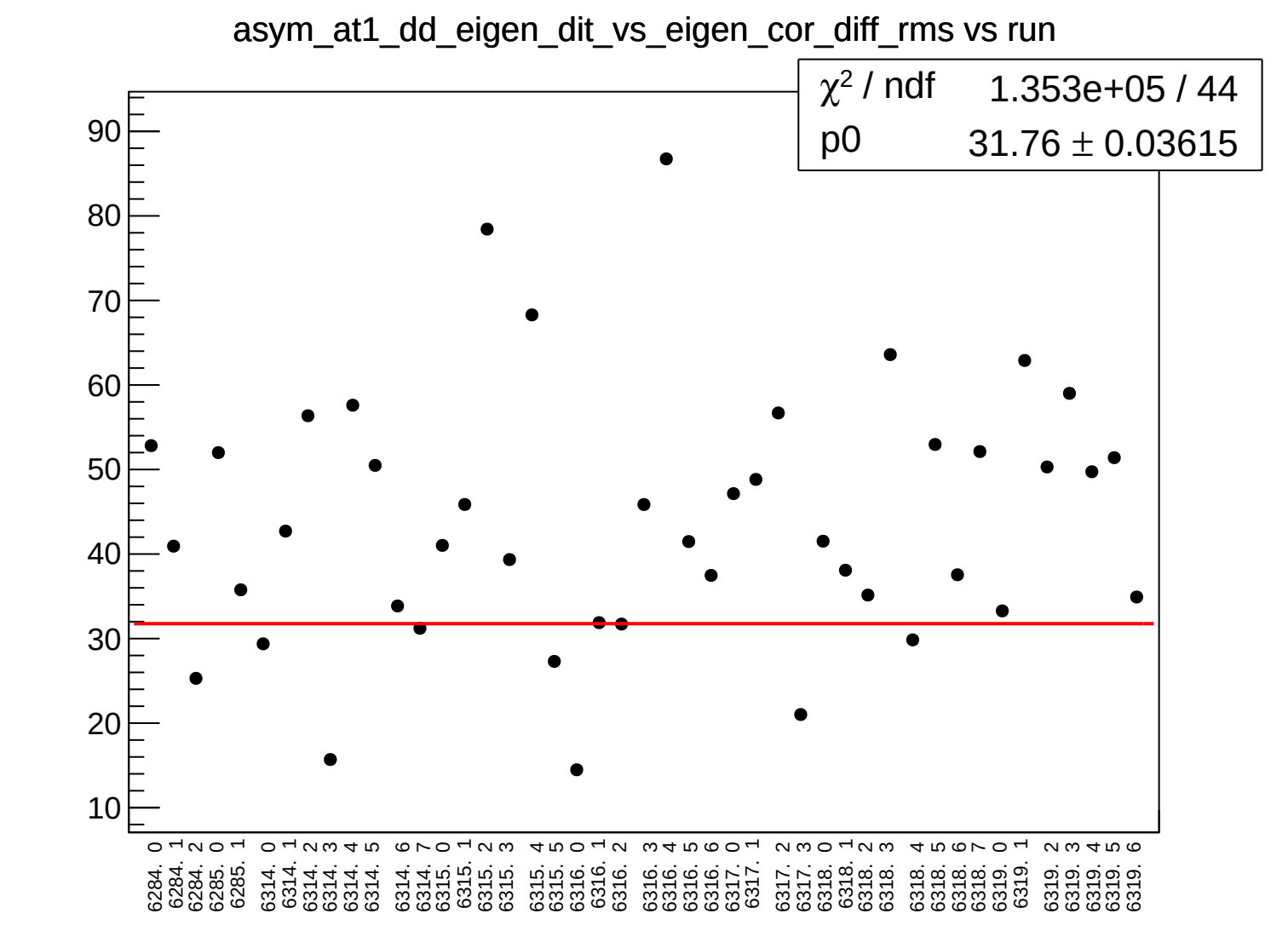
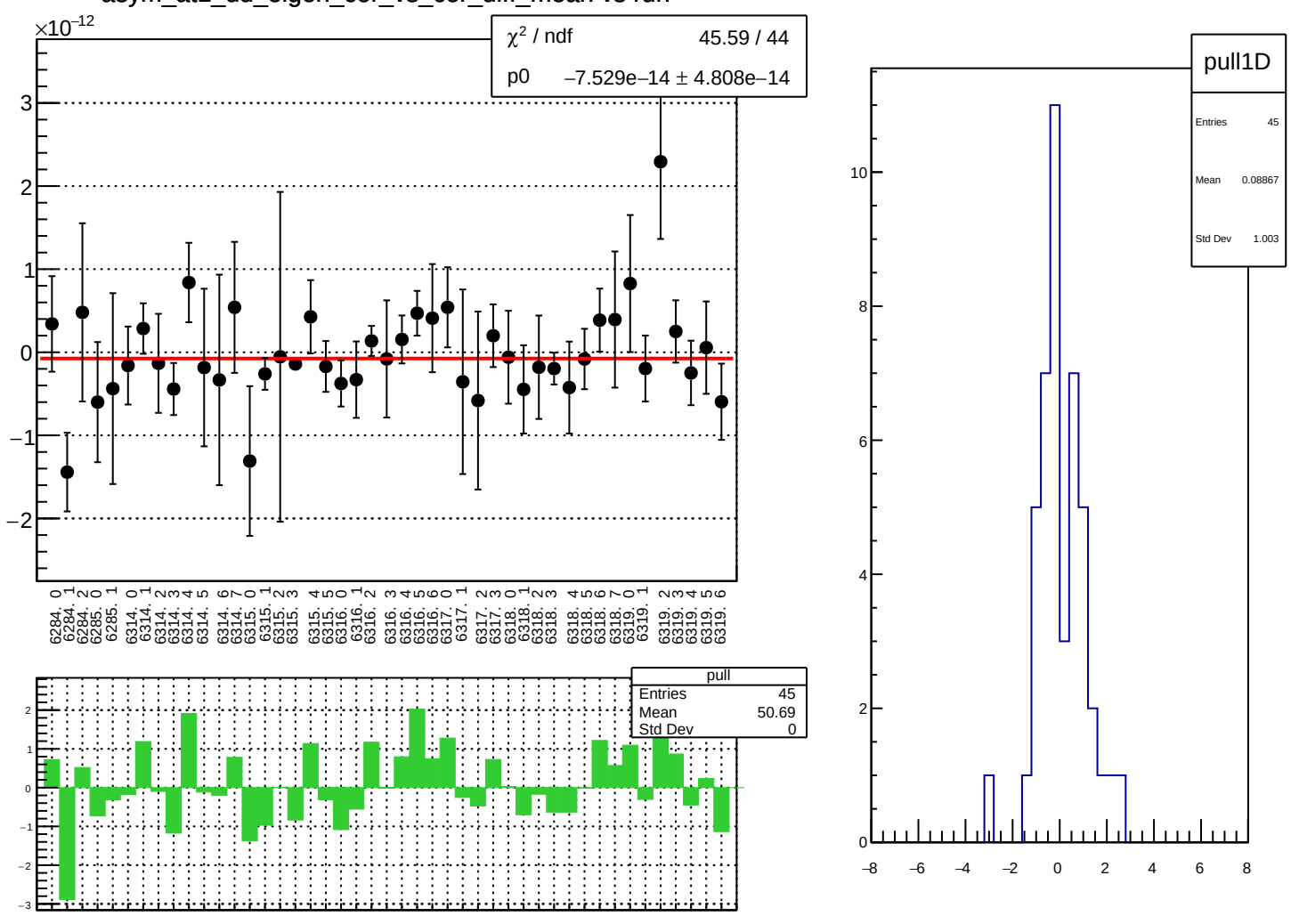
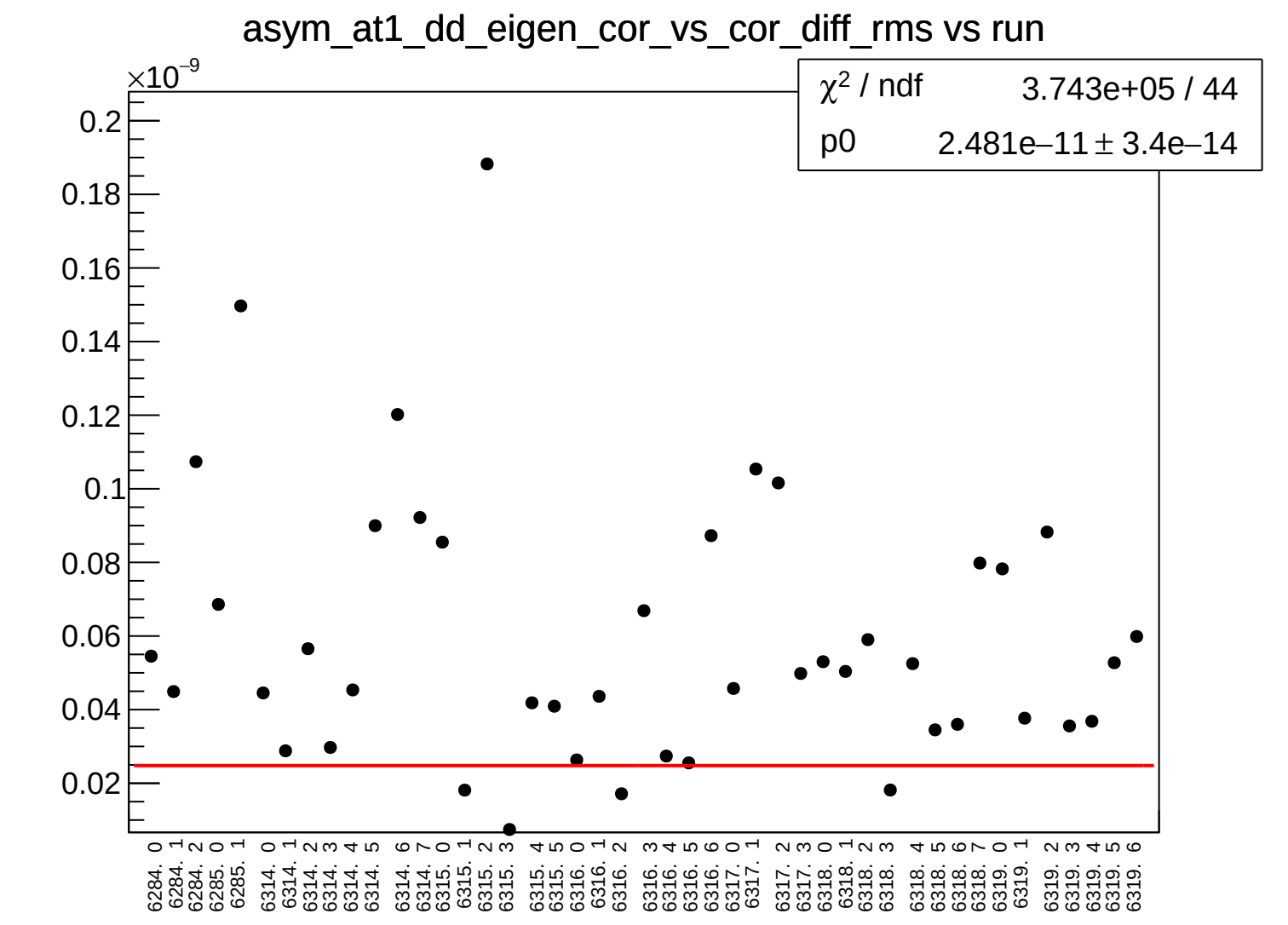
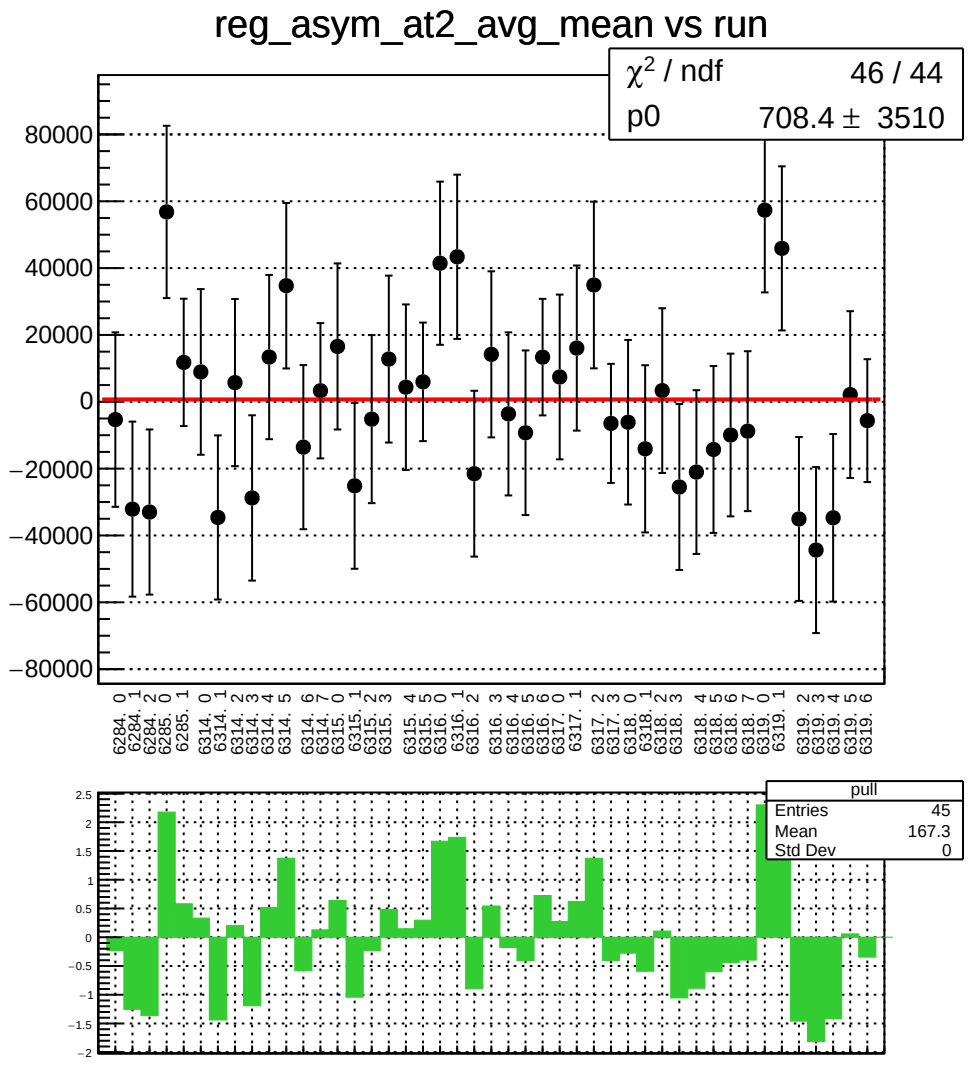
6319. 5
6319. 6

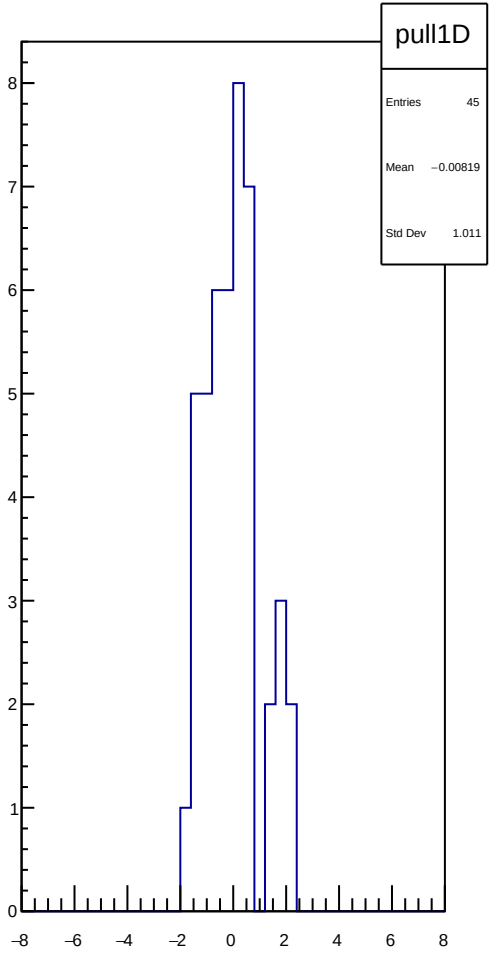

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.02 / 44
p0 −0.01903 ± 0.05113
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.36
Std Dev 50.85
pull1D
Entries 45
Mean −0.01248
Std Dev 1.211

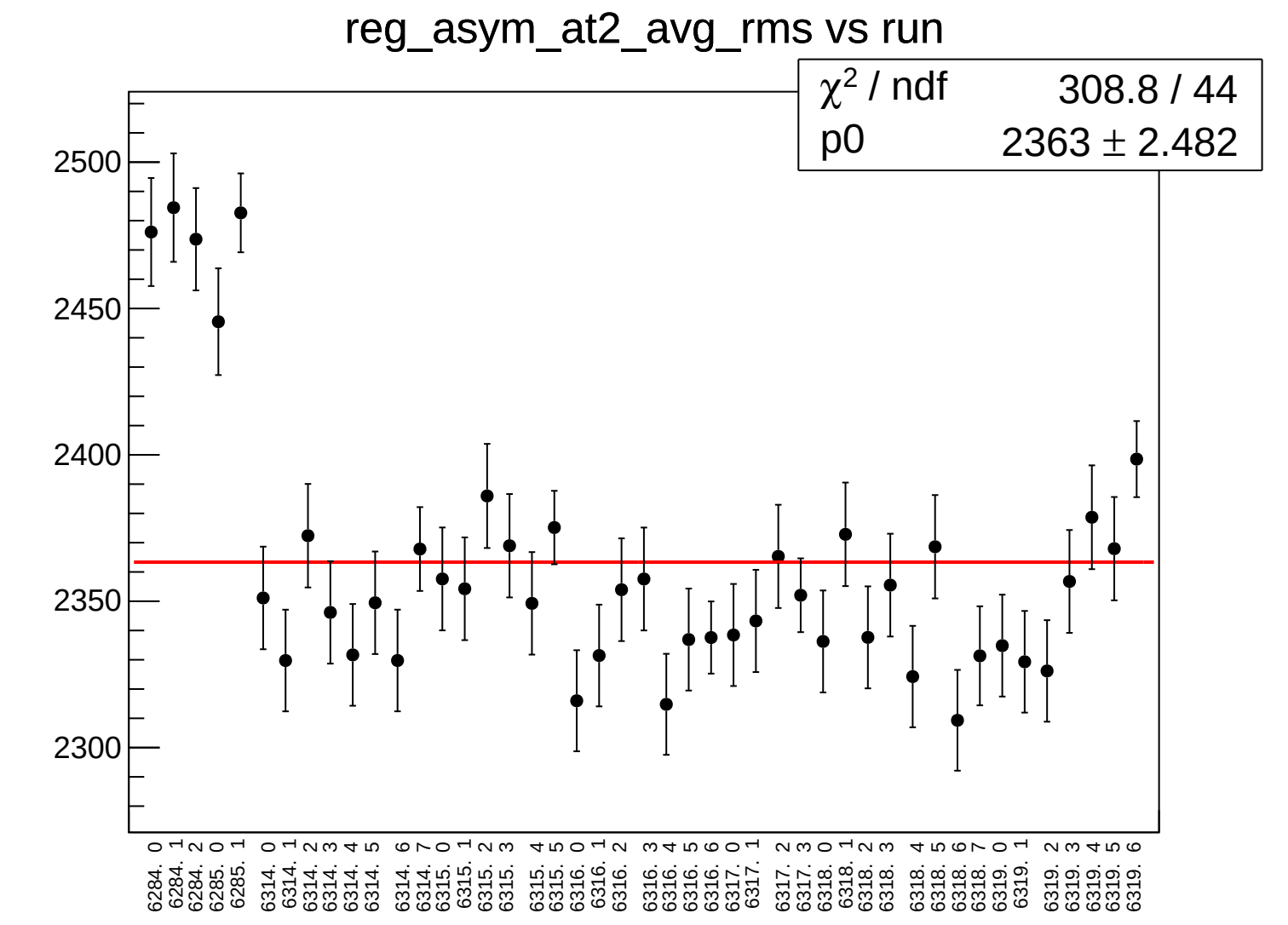

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.353e+05 / 44
p0 31.76 ± 0.03615
90
80
70
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

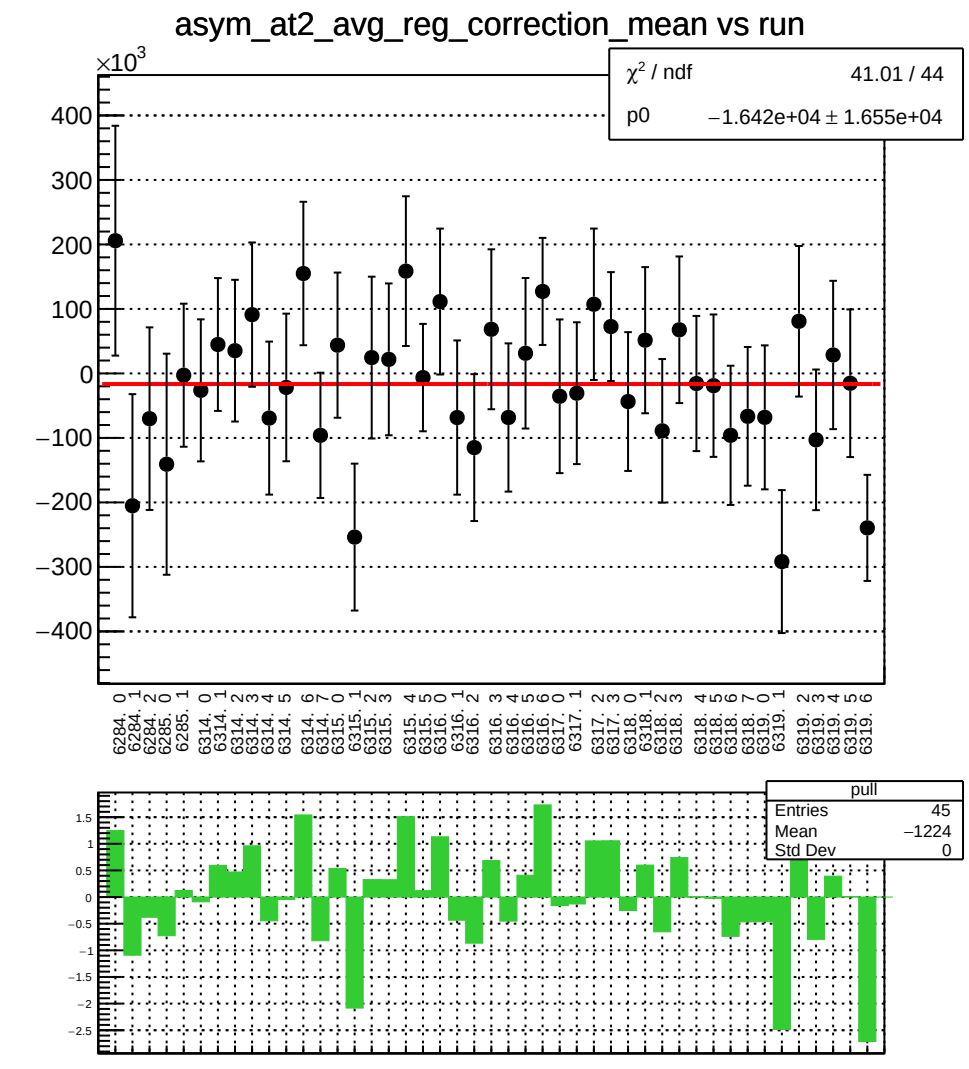

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.59 / 44
p0 −7.529e−14 ± 4.808e−14
3
2
1
0
−1
−2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.69
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.08867
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

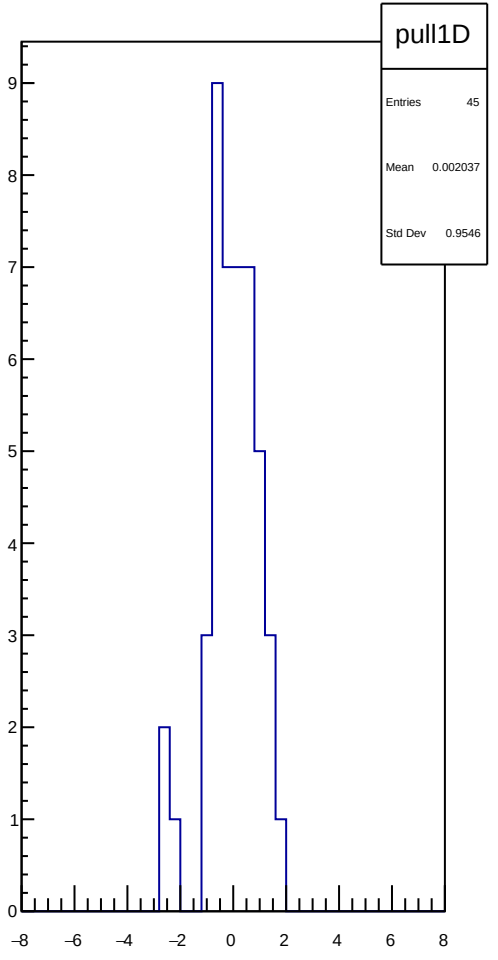

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.743e+05 / 44
p0 2.481e−11 ± 3.4e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

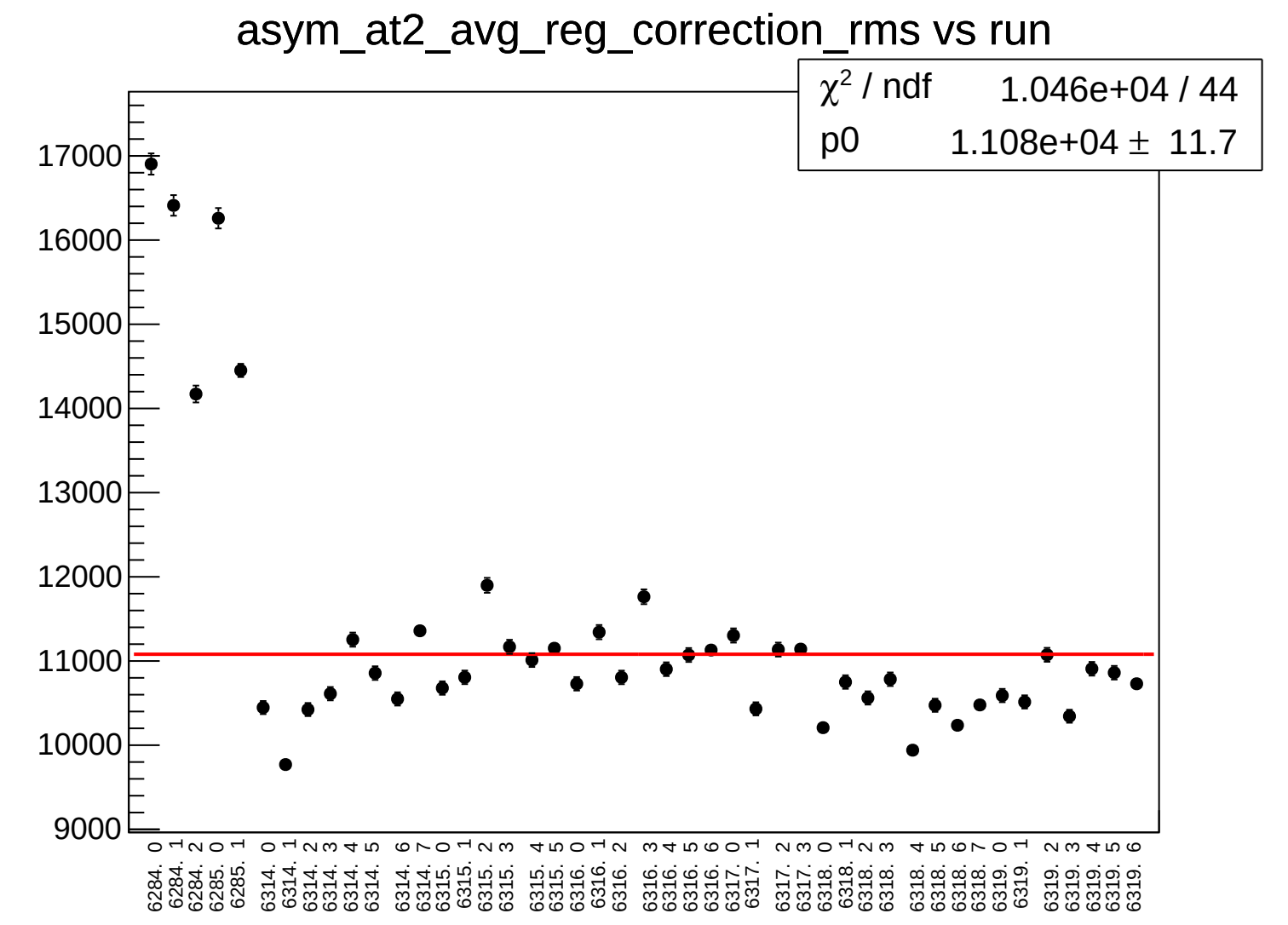

reg_asym_at2_avg_mean vs run
χ² / ndf 46 / 44
p0 708.4 ± 3510
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 167.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.00819
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 308.8 / 44
p0 2363 ± 2.482
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.642e+04 ± 1.655e+04
400
300
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002037
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.046e+04 / 44
p0 1.108e+04 ± 11.7
17000
16000
15000
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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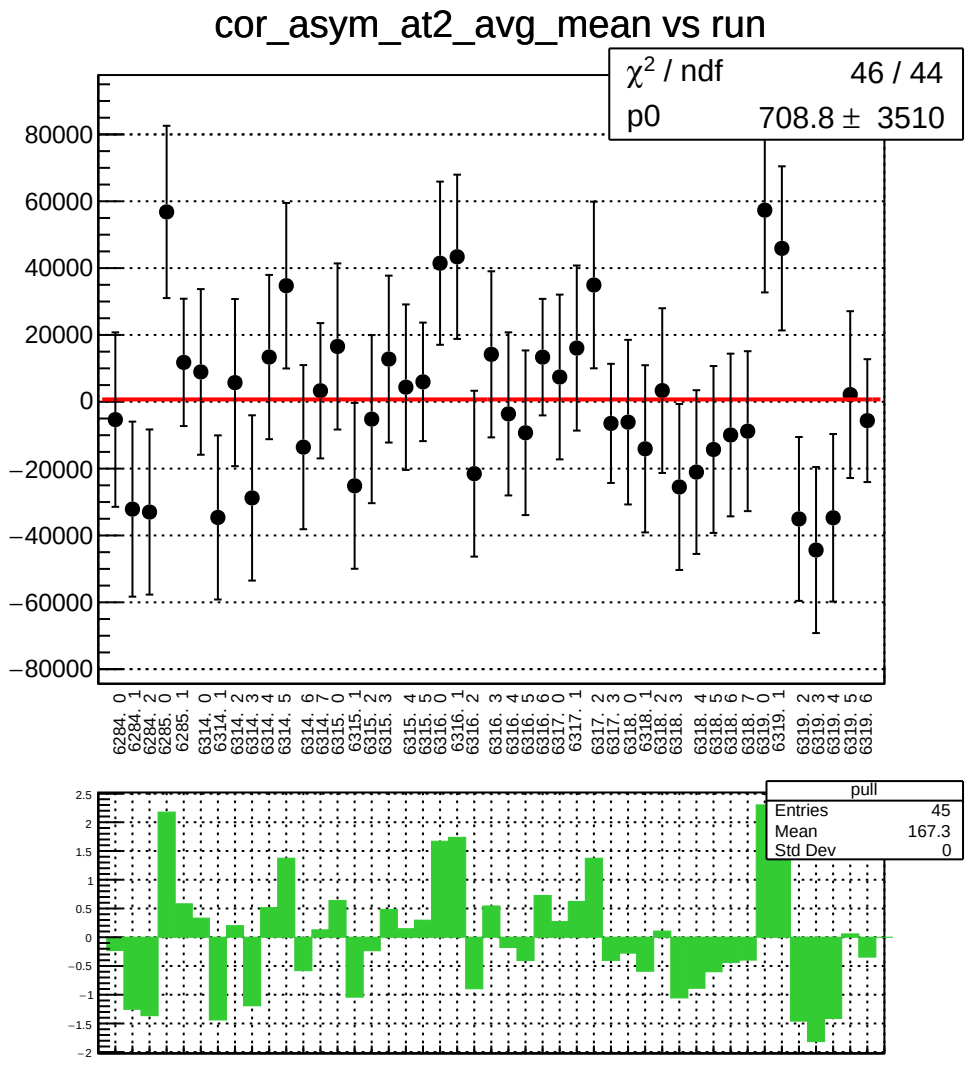
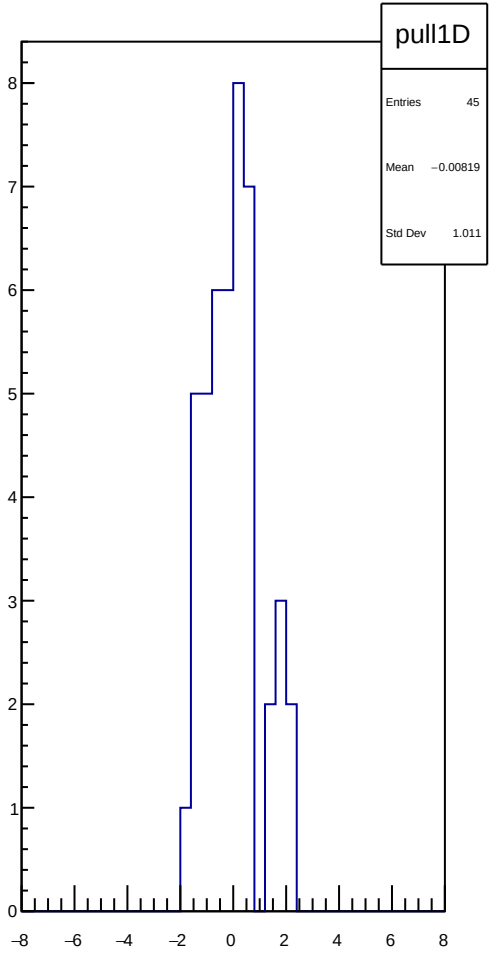
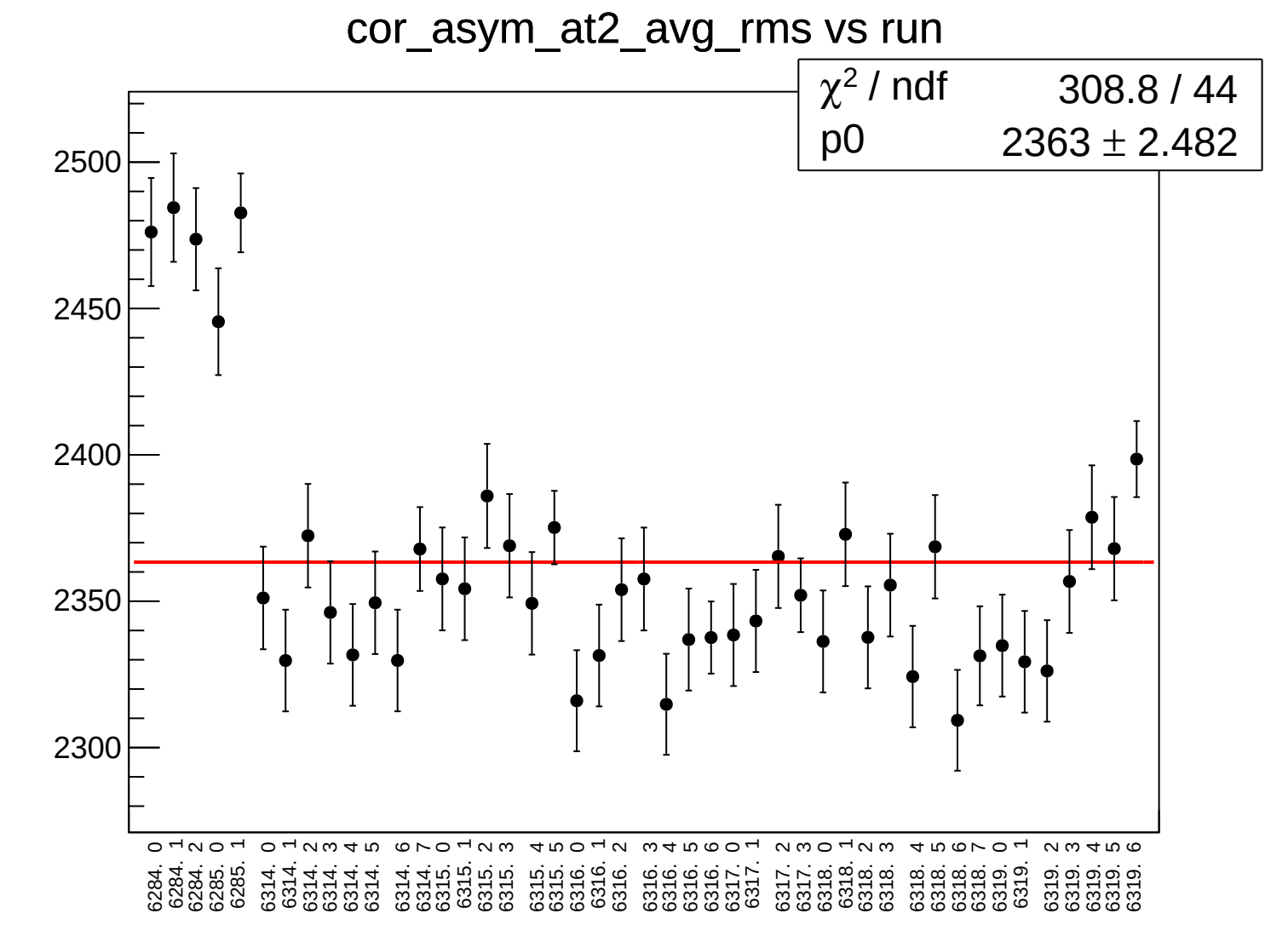
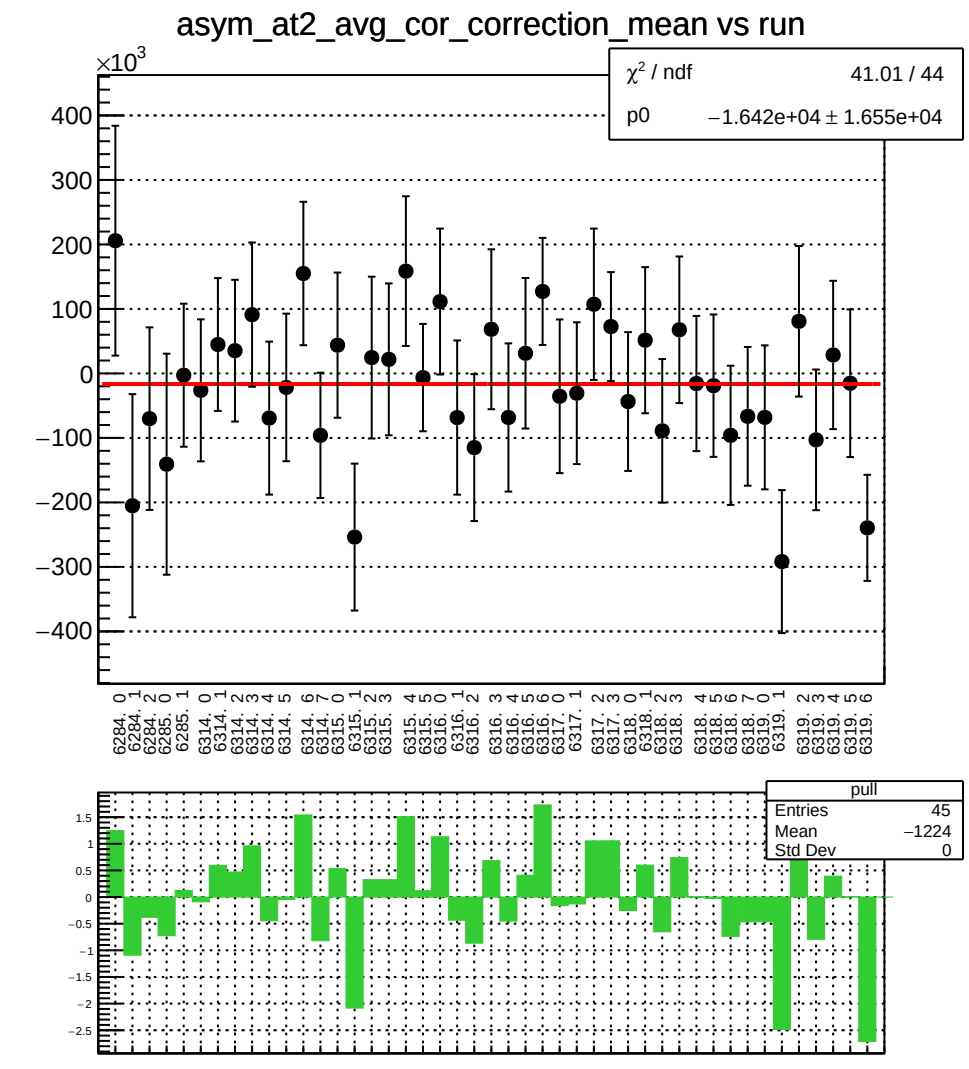
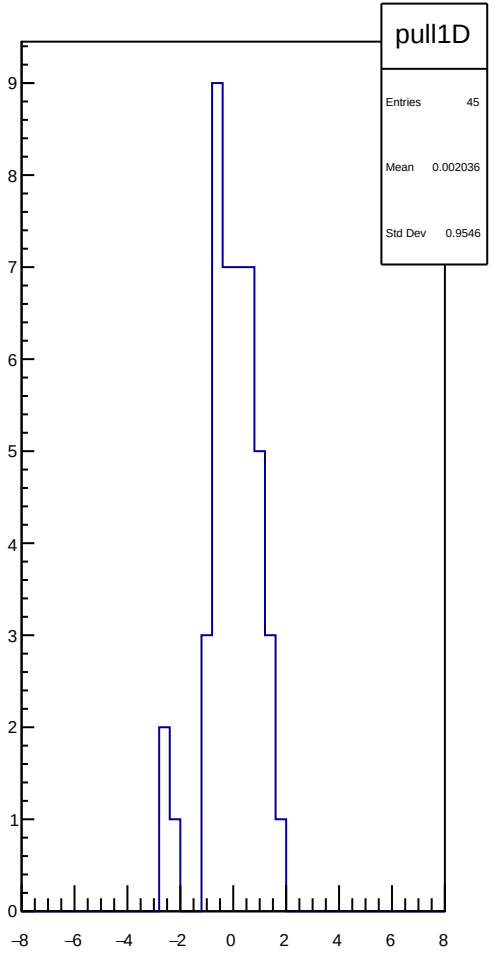
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

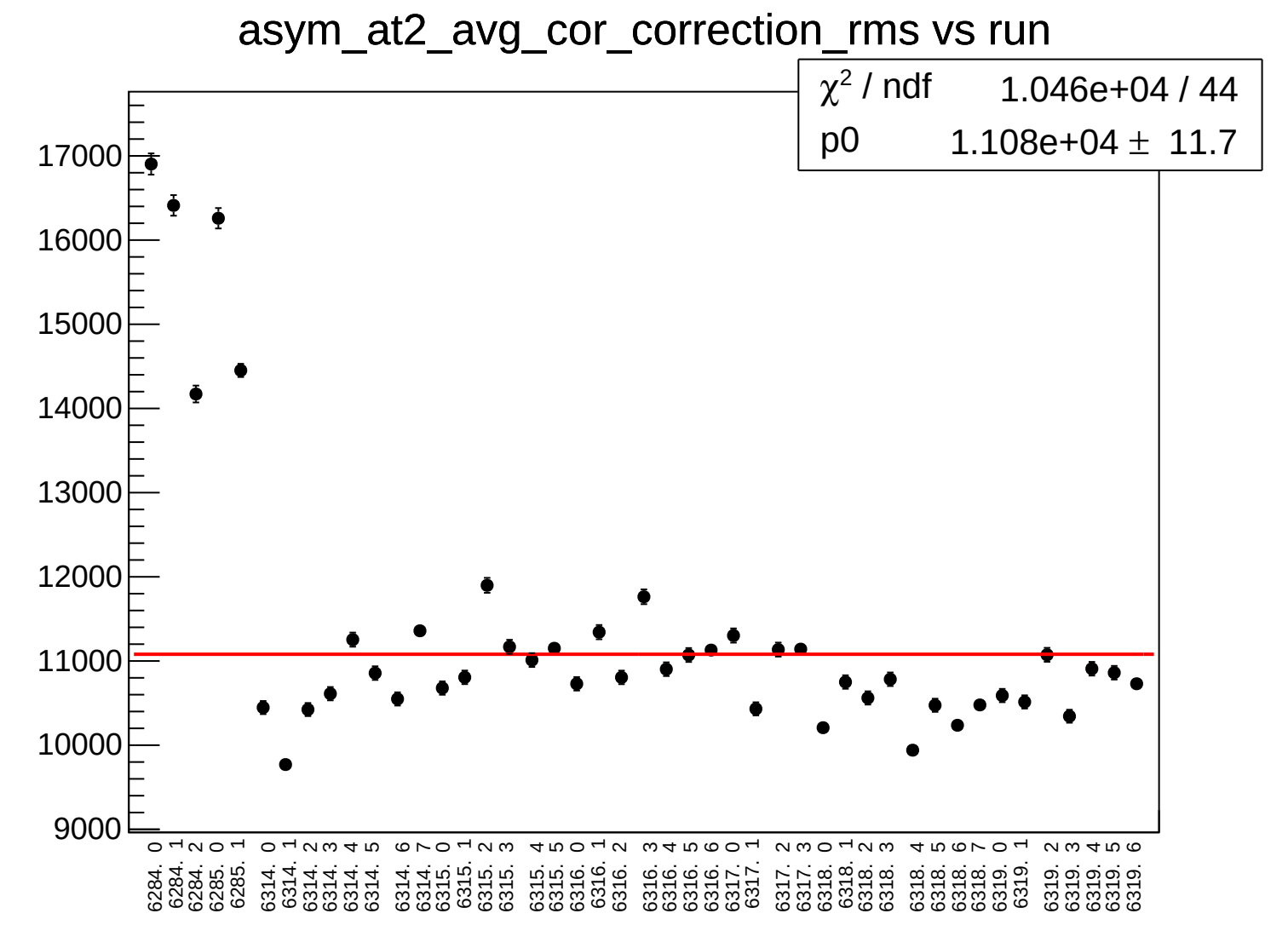

cor_asym_at2_avg_mean vs run
χ² / ndf 46 / 44
p0 708.8 ± 3510
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 167.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.00819
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_avg_rms vs run
χ² / ndf 308.8 / 44
p0 2363 ± 2.482
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.642e+04 ± 1.655e+04
400
300
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002036
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 44
p0 1.108e+04 ± 11.7
17000
16000
15000
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
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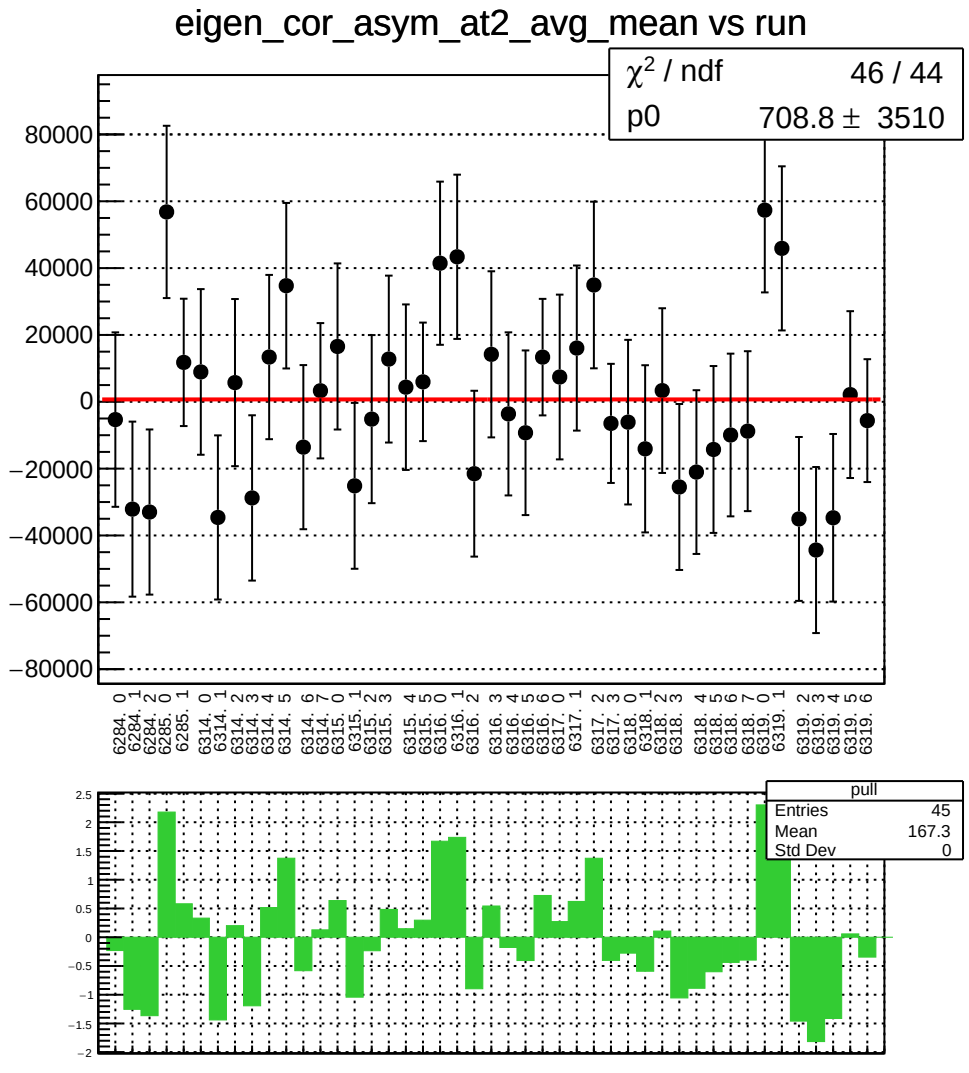
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 46 / 44
p0 708.8 ± 3510
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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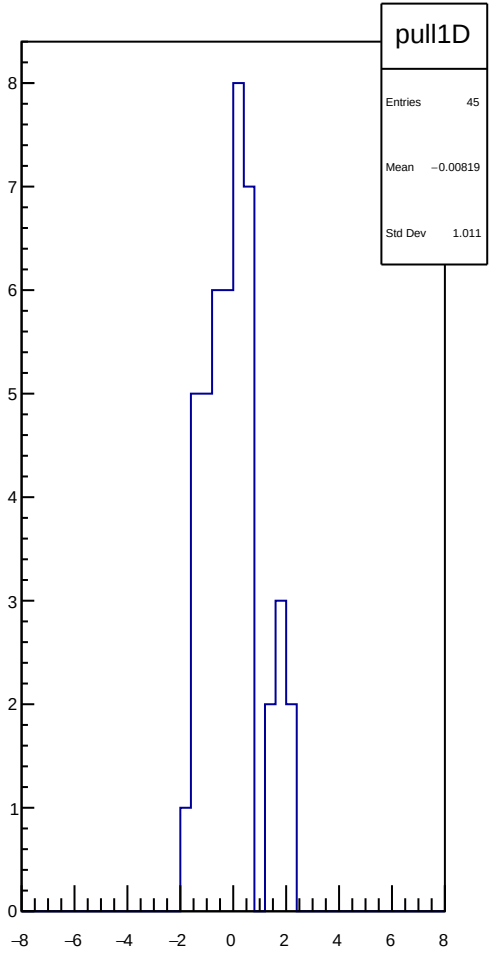
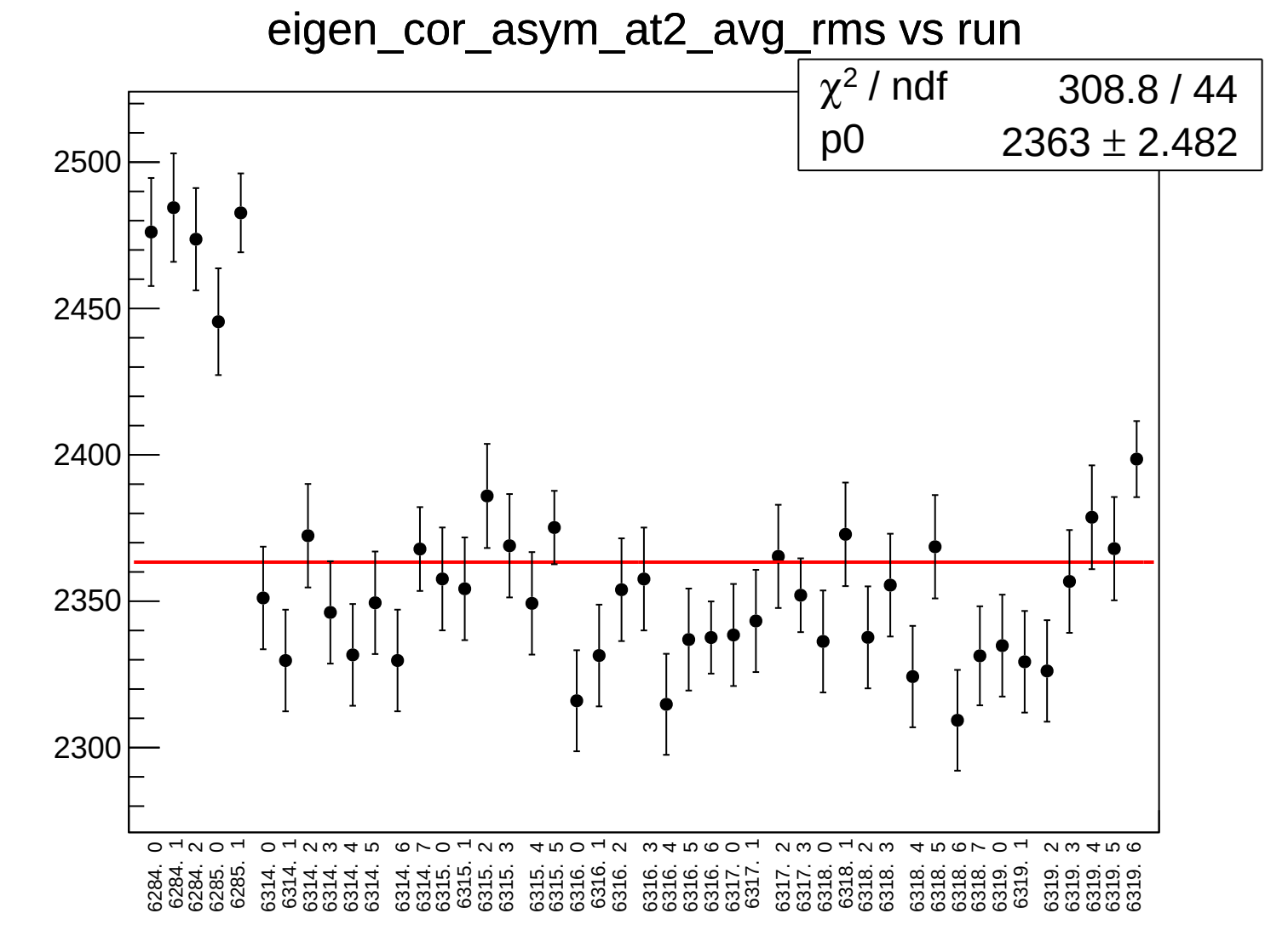
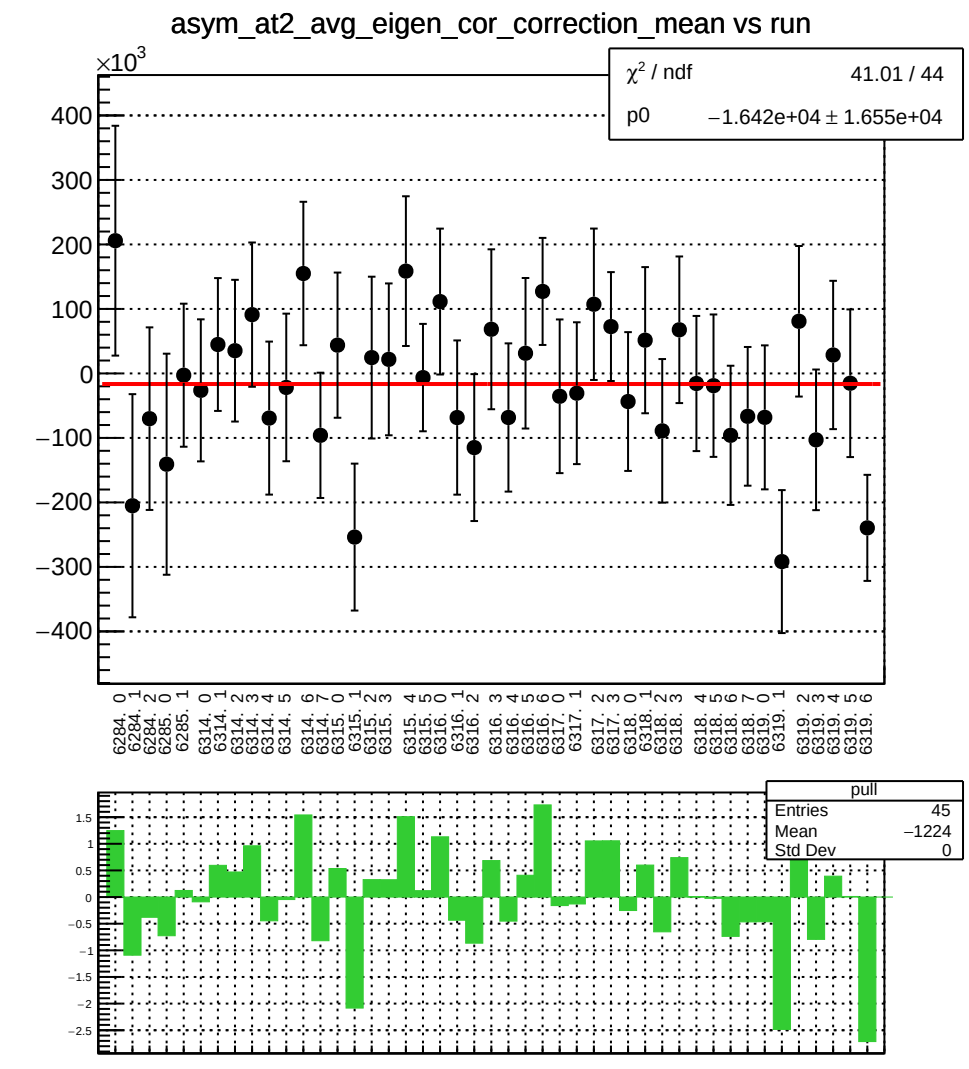
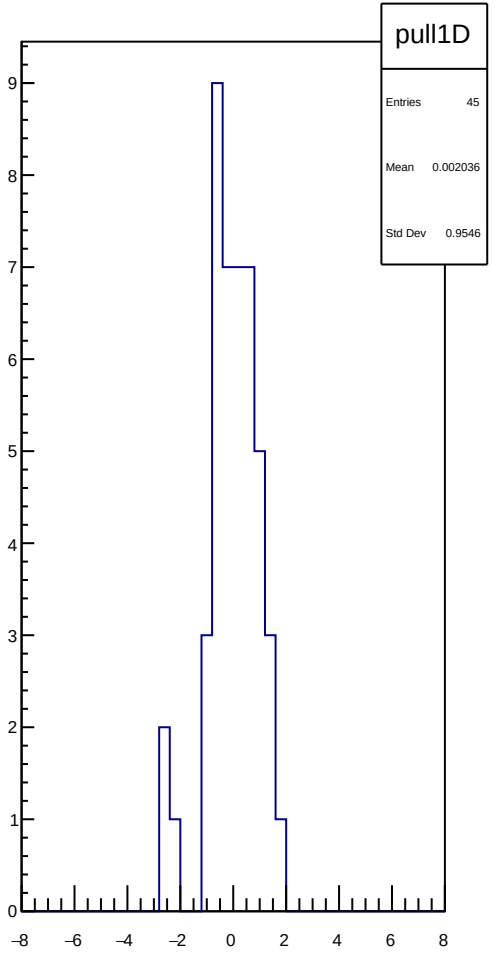
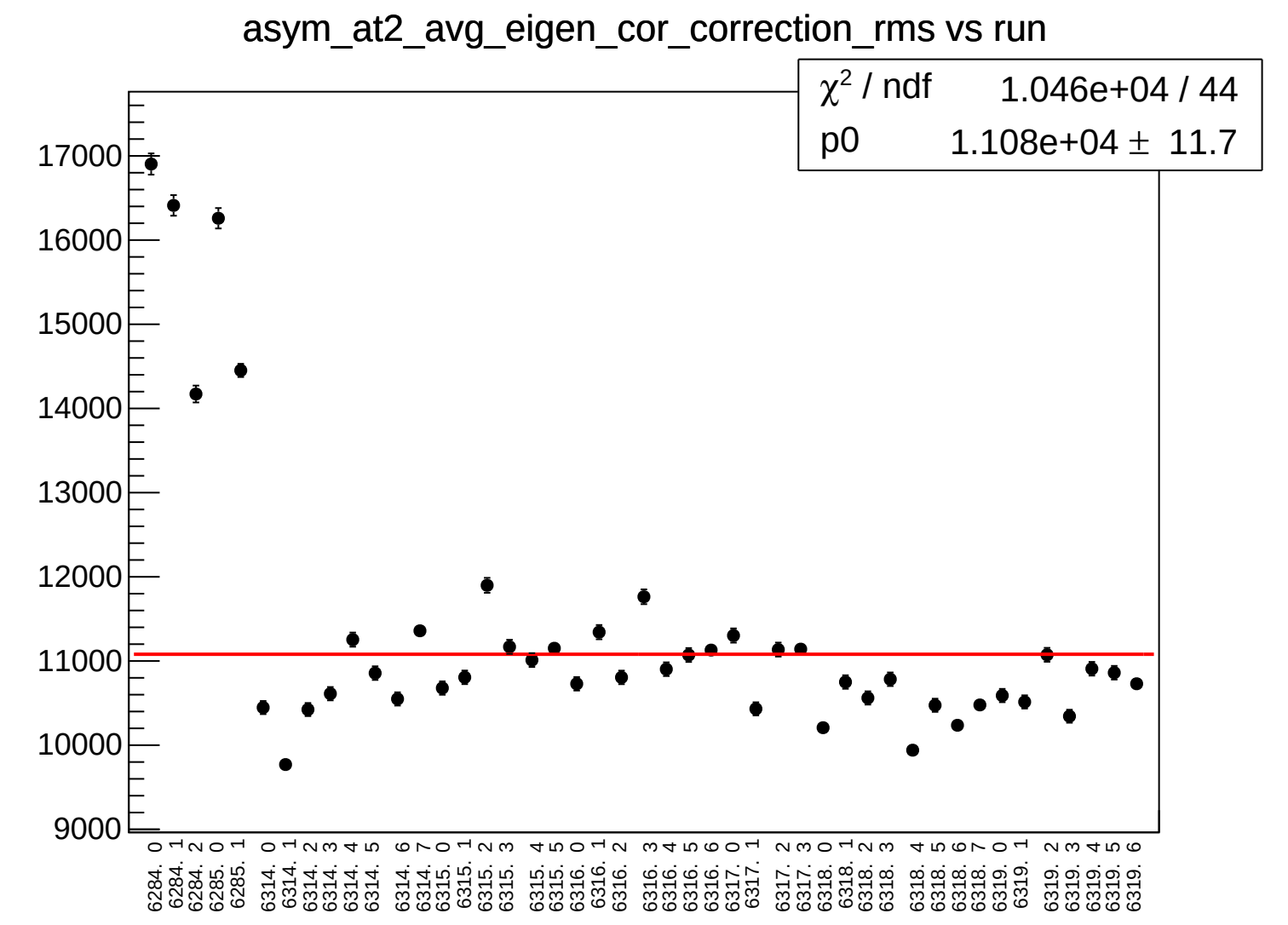
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 167.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

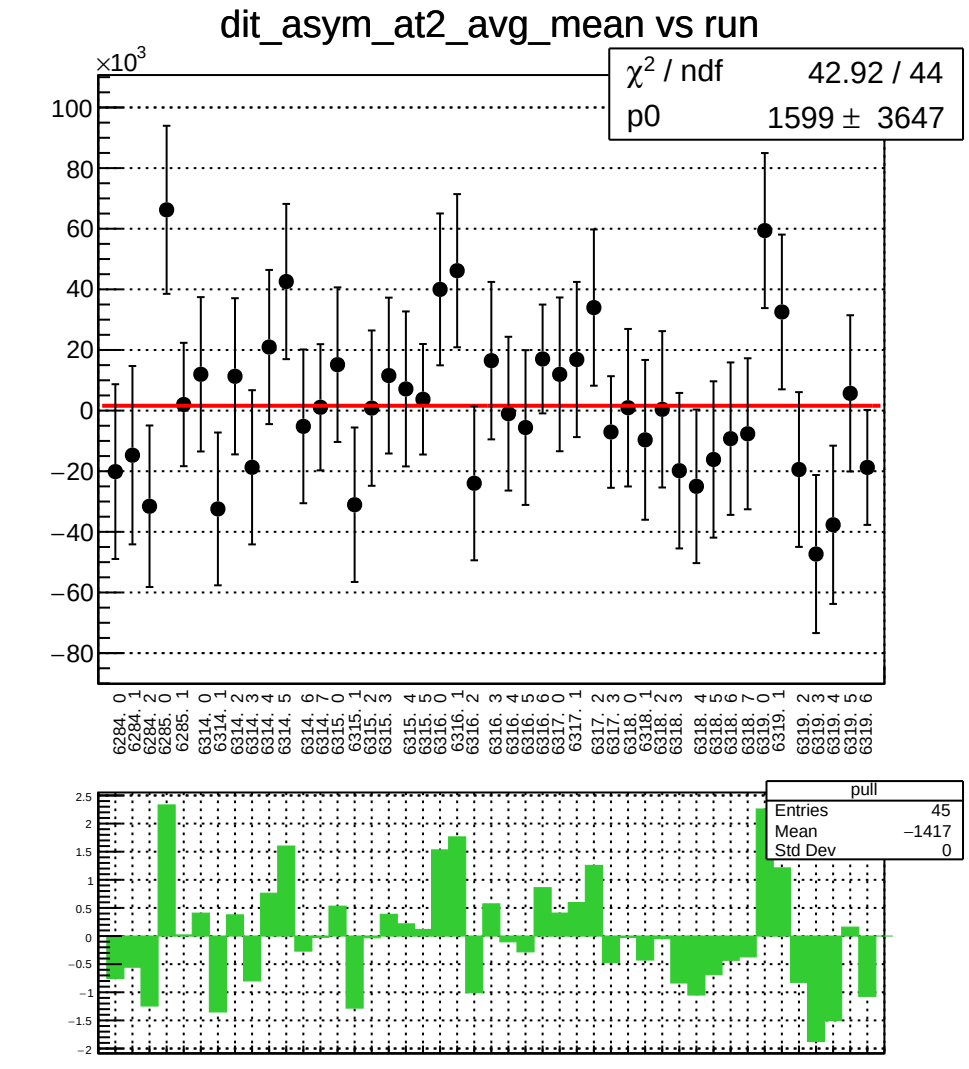

pull1D
Entries 45
Mean −0.00819
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

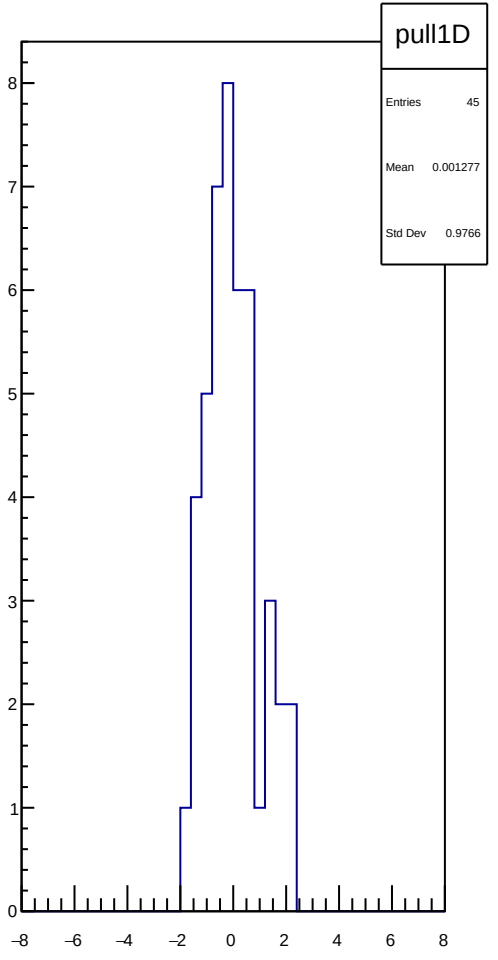

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 308.8 / 44
p0 2363 ± 2.482
2500
2450
2400
2350
2300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

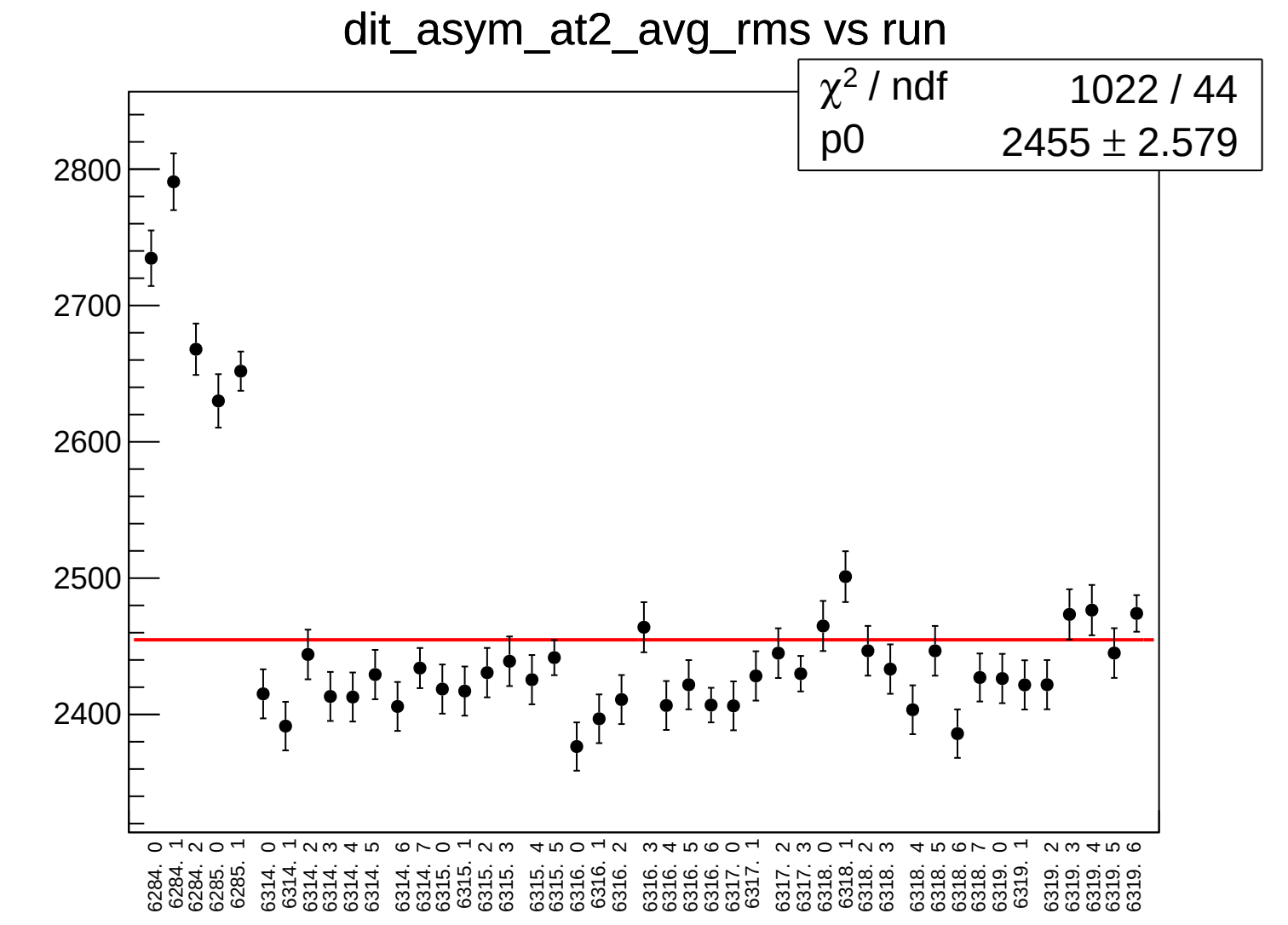

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.642e+04 ± 1.655e+04
400
300
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

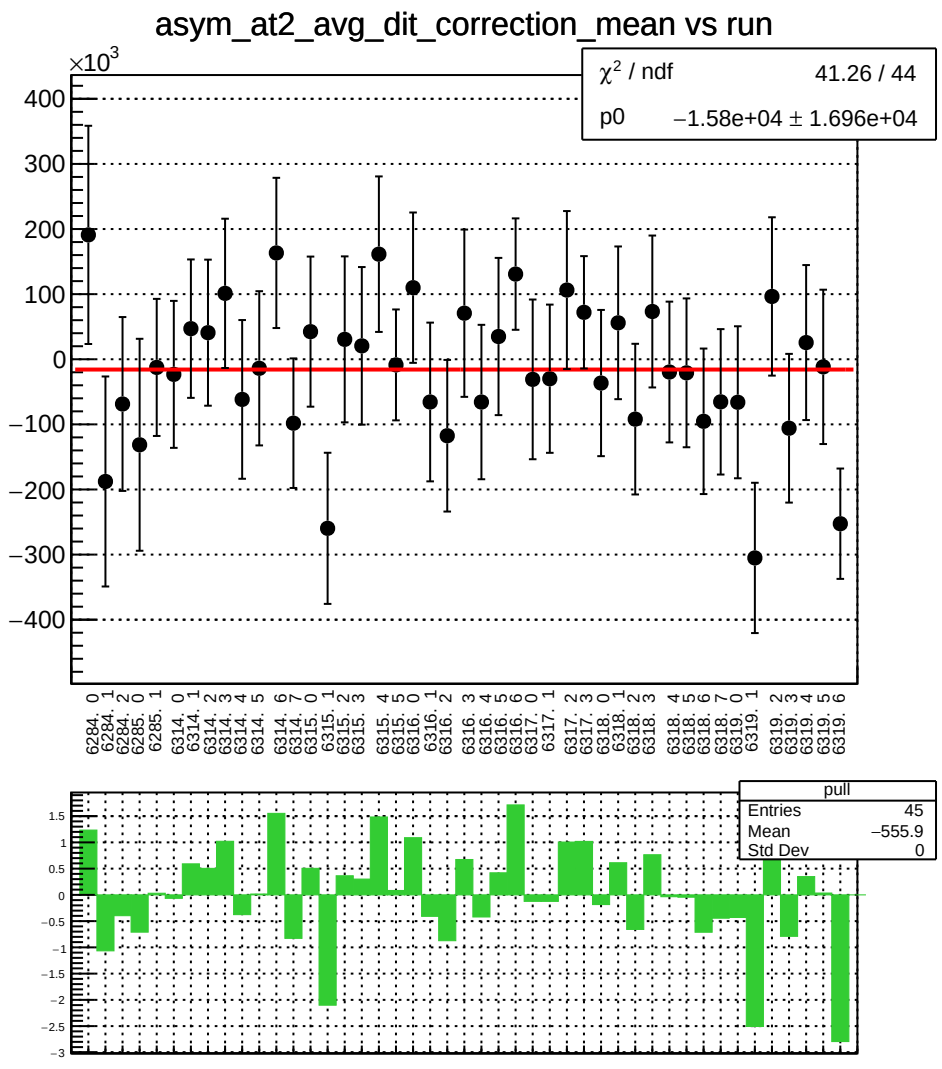

pull1D
Entries 45
Mean 0.002036
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

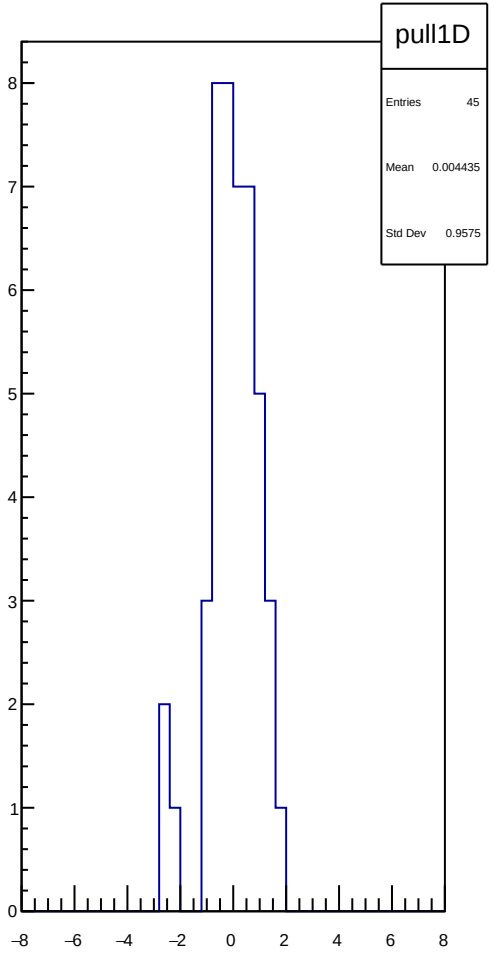

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 44
p0 1.108e+04 ± 11.7
17000
16000
15000
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

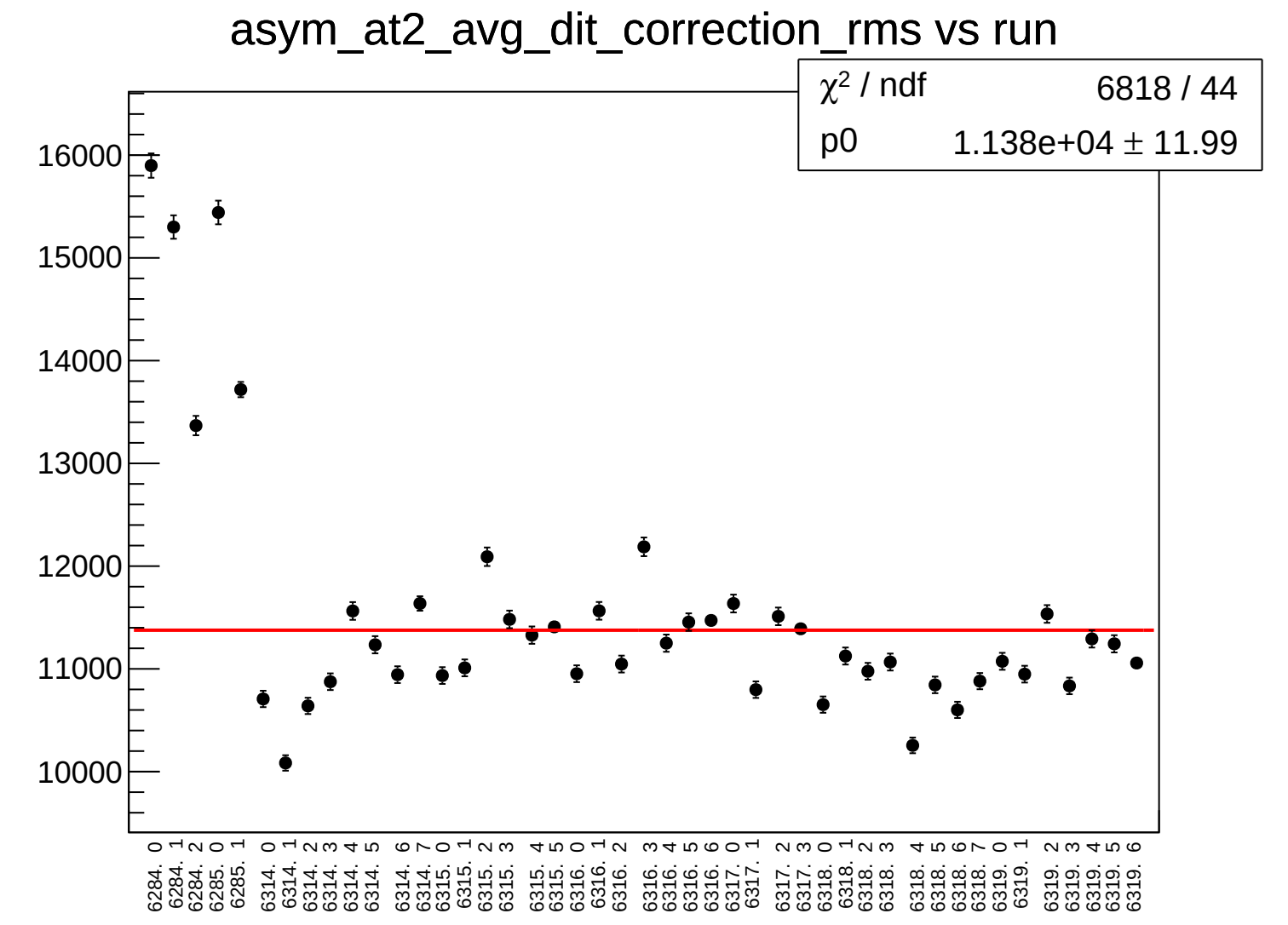

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 42.92 / 44
p0 1599 ± 3647
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

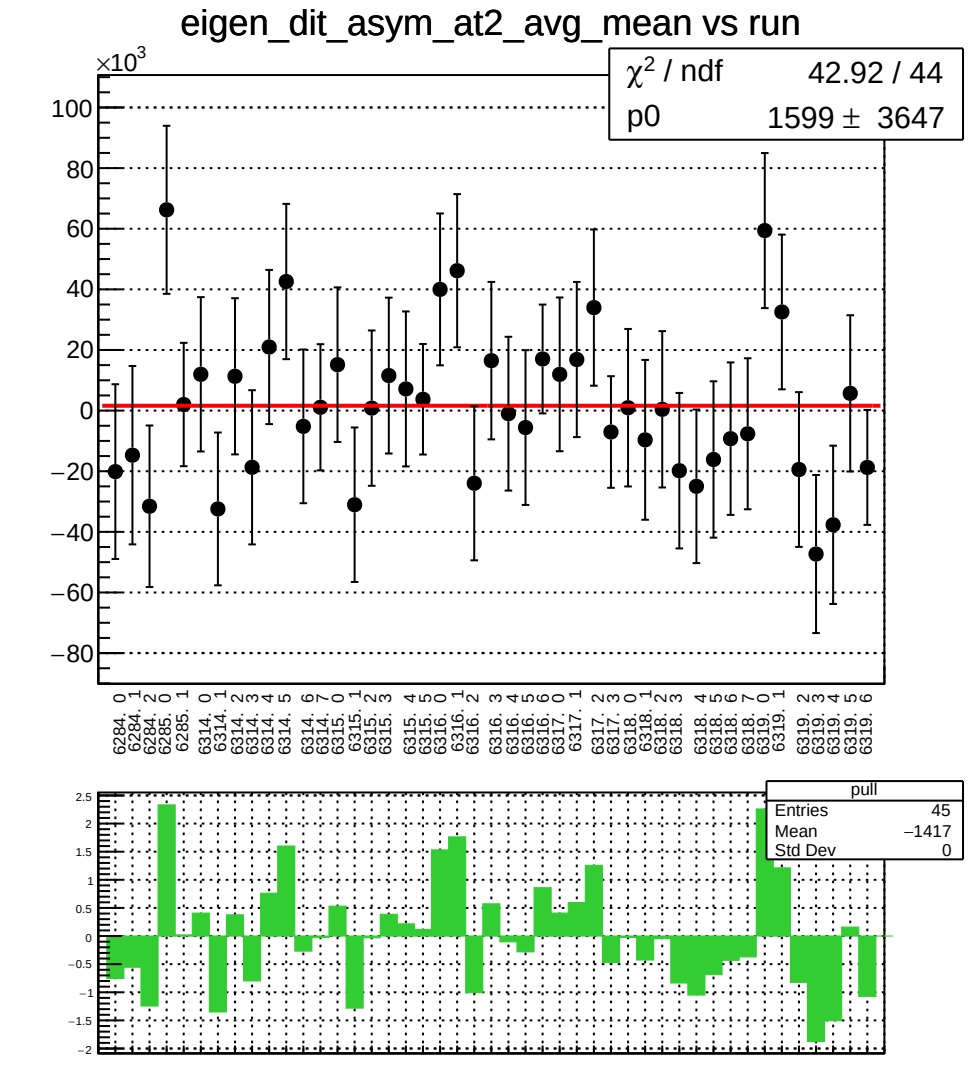

pull1D
Entries 45
Mean 0.001277
Std Dev 0.9766
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

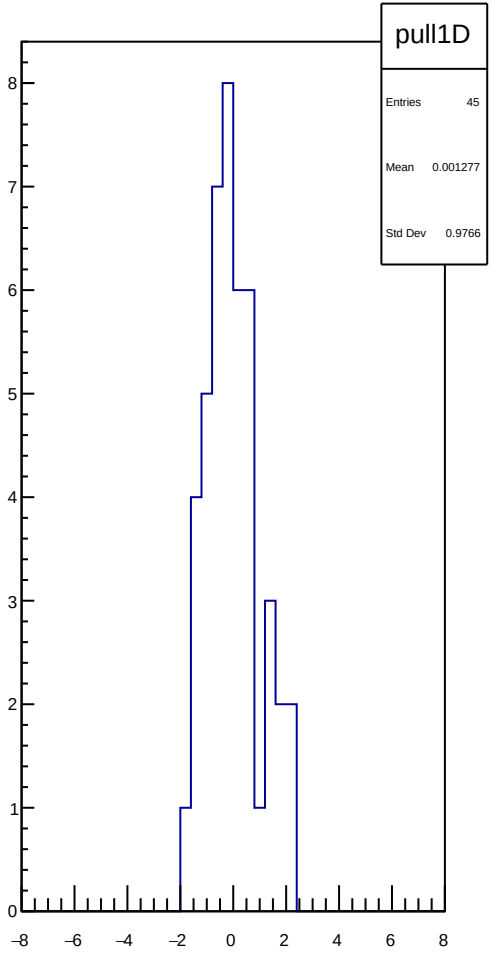

dit_asym_at2_avg_rms vs run
χ² / ndf 1022 / 44
p0 2455 ± 2.579
2800
2700
2600
2500
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

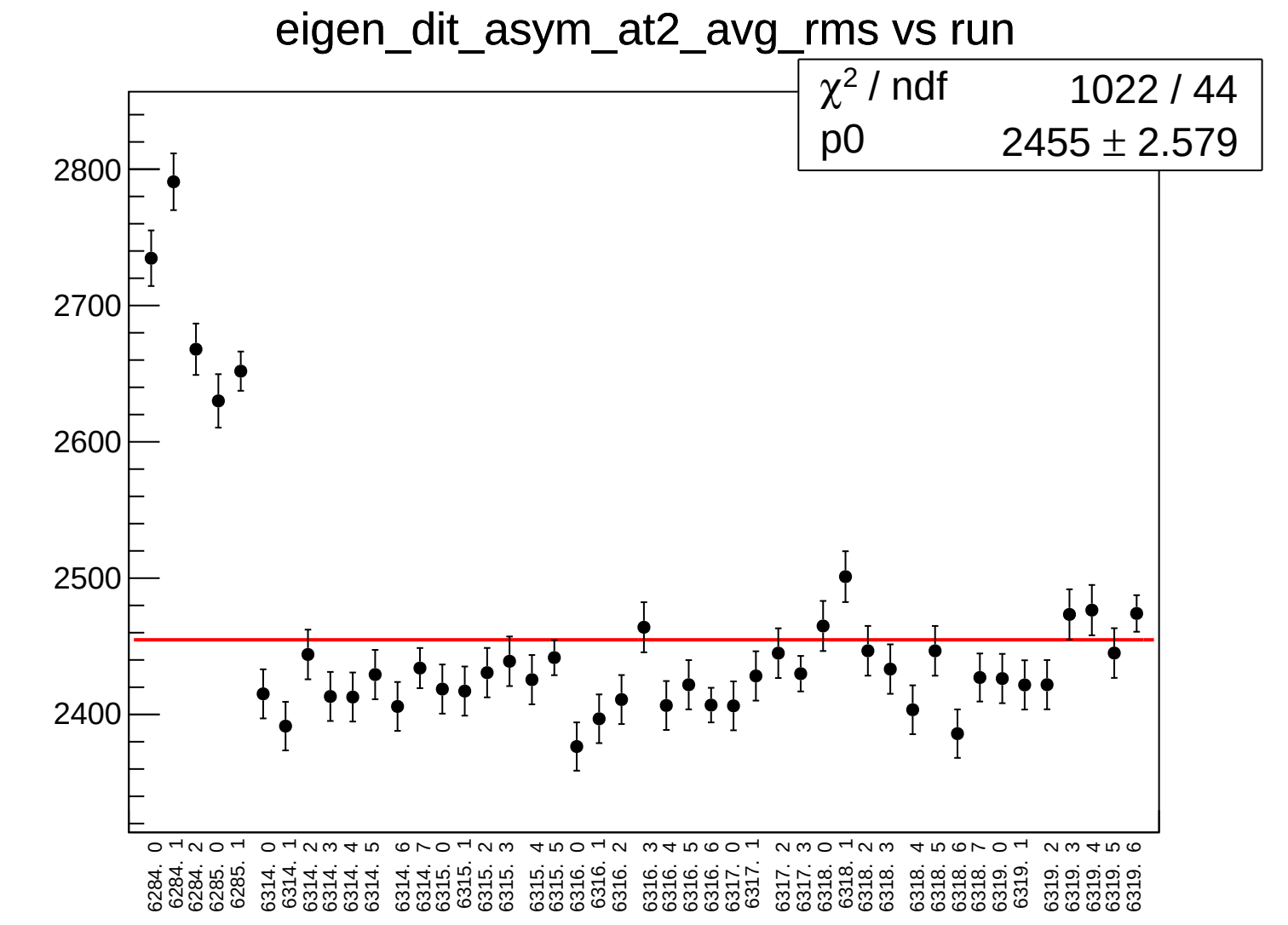

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 −1.58e+04 ± 1.696e+04
pull
Entries 45
Mean −555.9
Std Dev 0

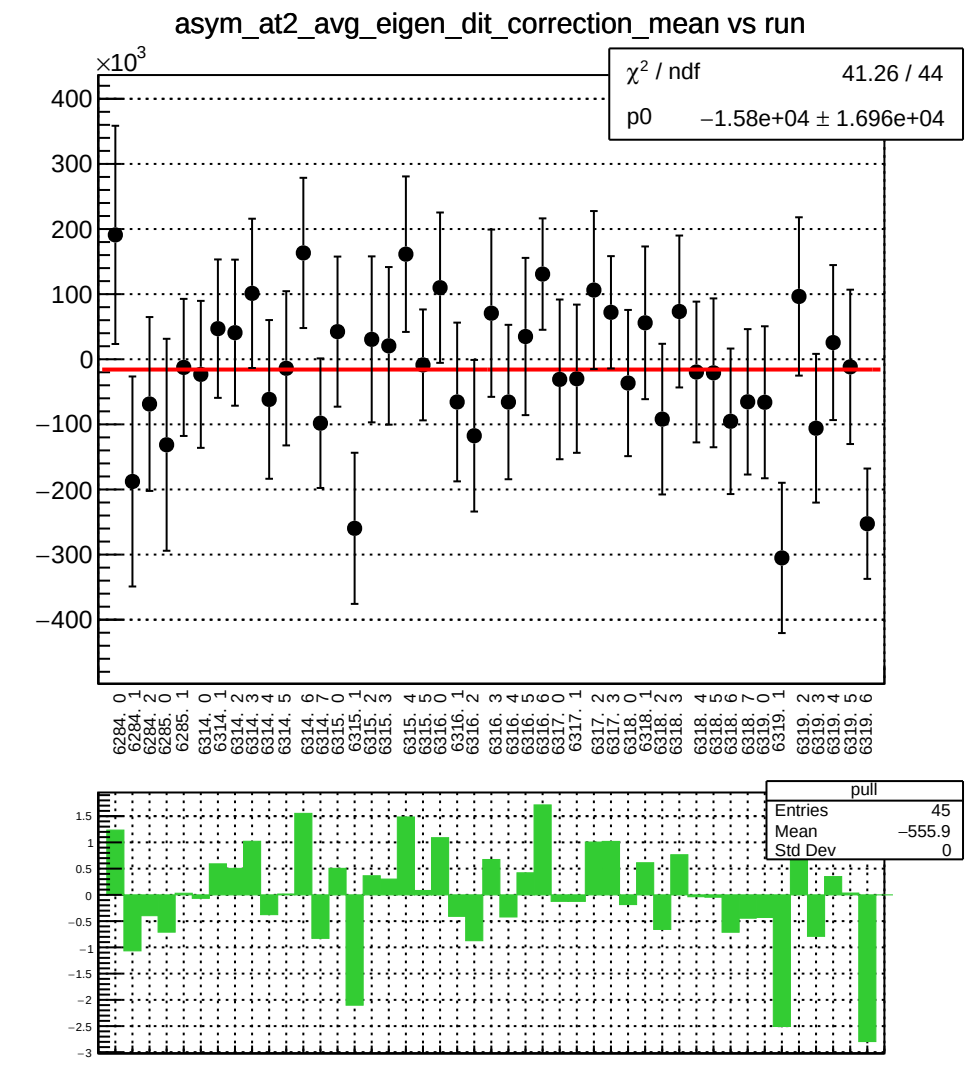

pull1D
Entries 45
Mean 0.004435
Std Dev 0.9575

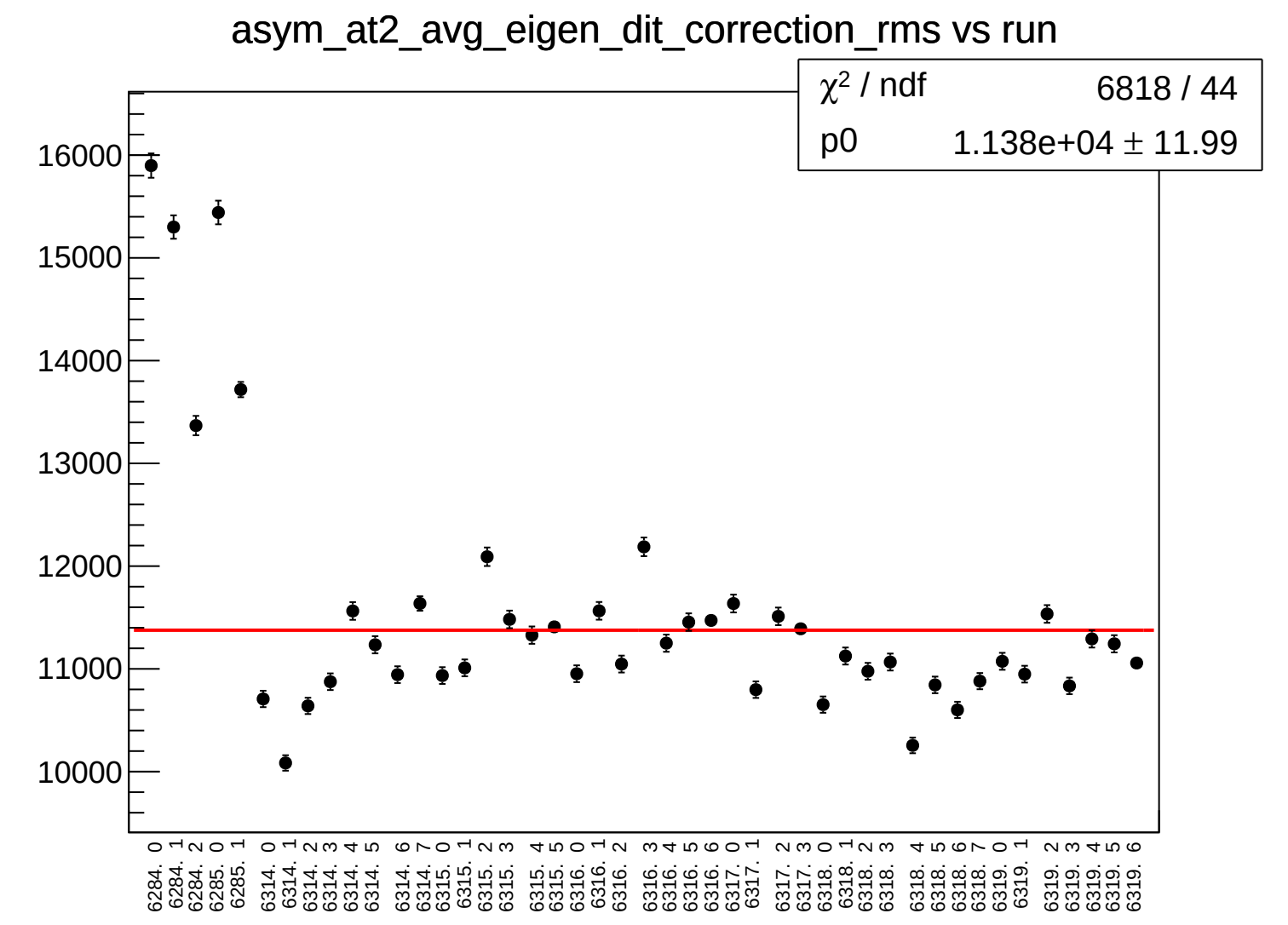

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6818 / 44
p0 1.138e+04 ± 11.99
16000
15000
14000
13000
12000
11000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

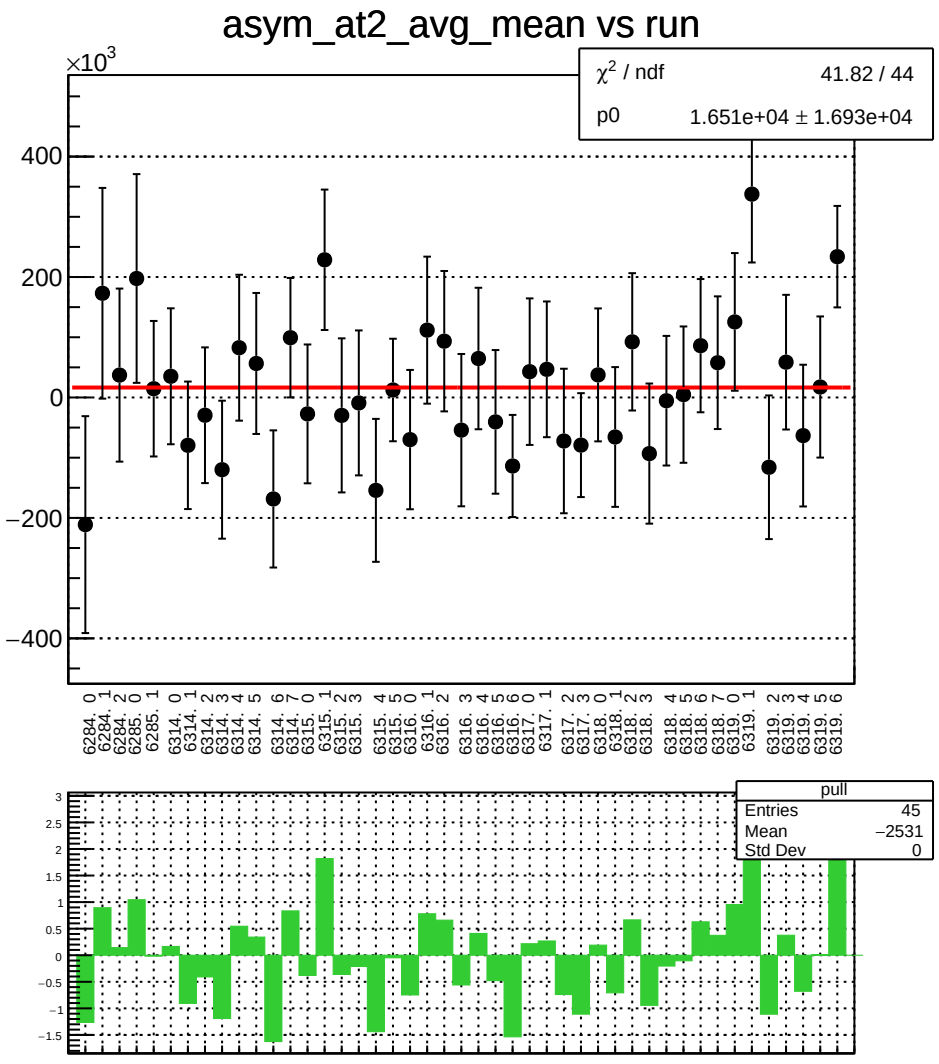

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 42.92 / 44
p0 1599 ± 3647
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

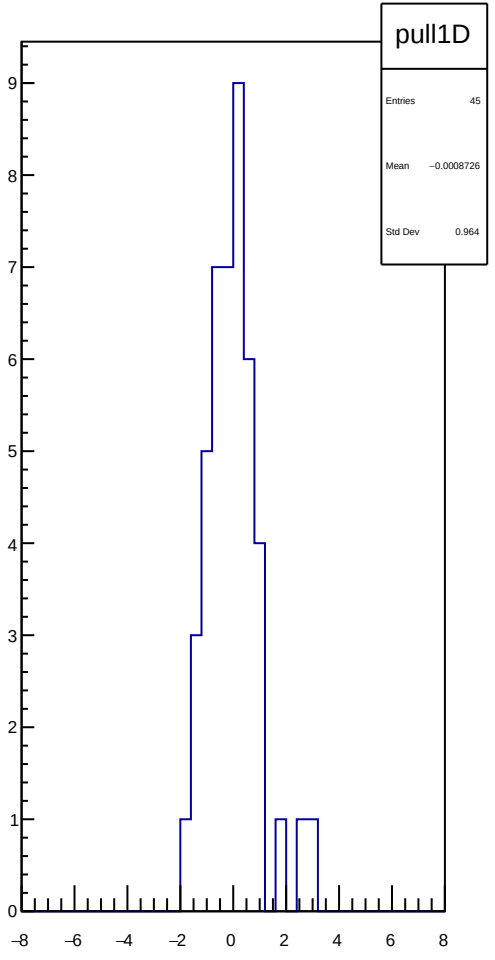

pull1D
Entries 45
Mean 0.001277
Std Dev 0.9766
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

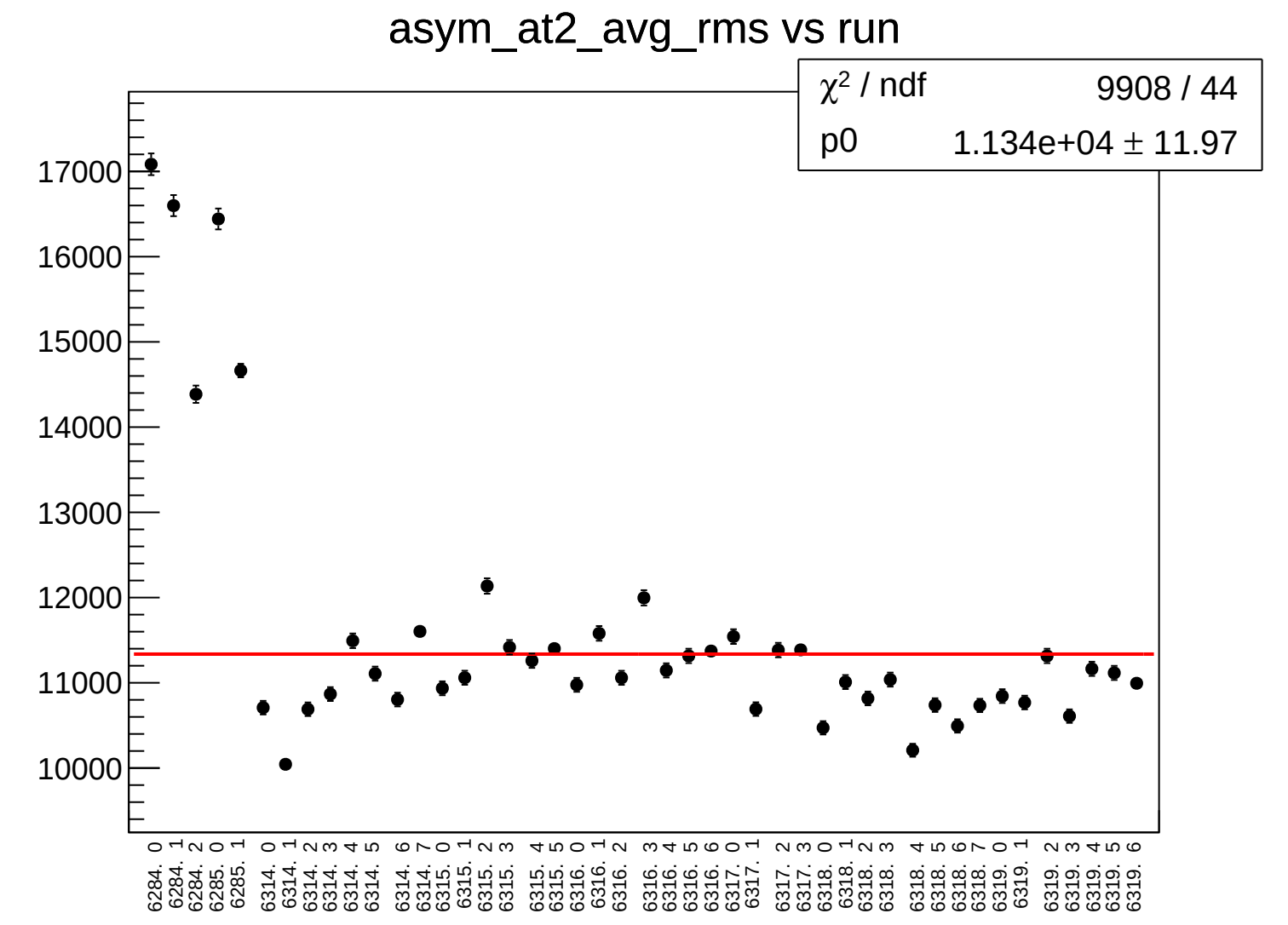

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1022 / 44
p0 2455 ± 2.579
2800
2700
2600
2500
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

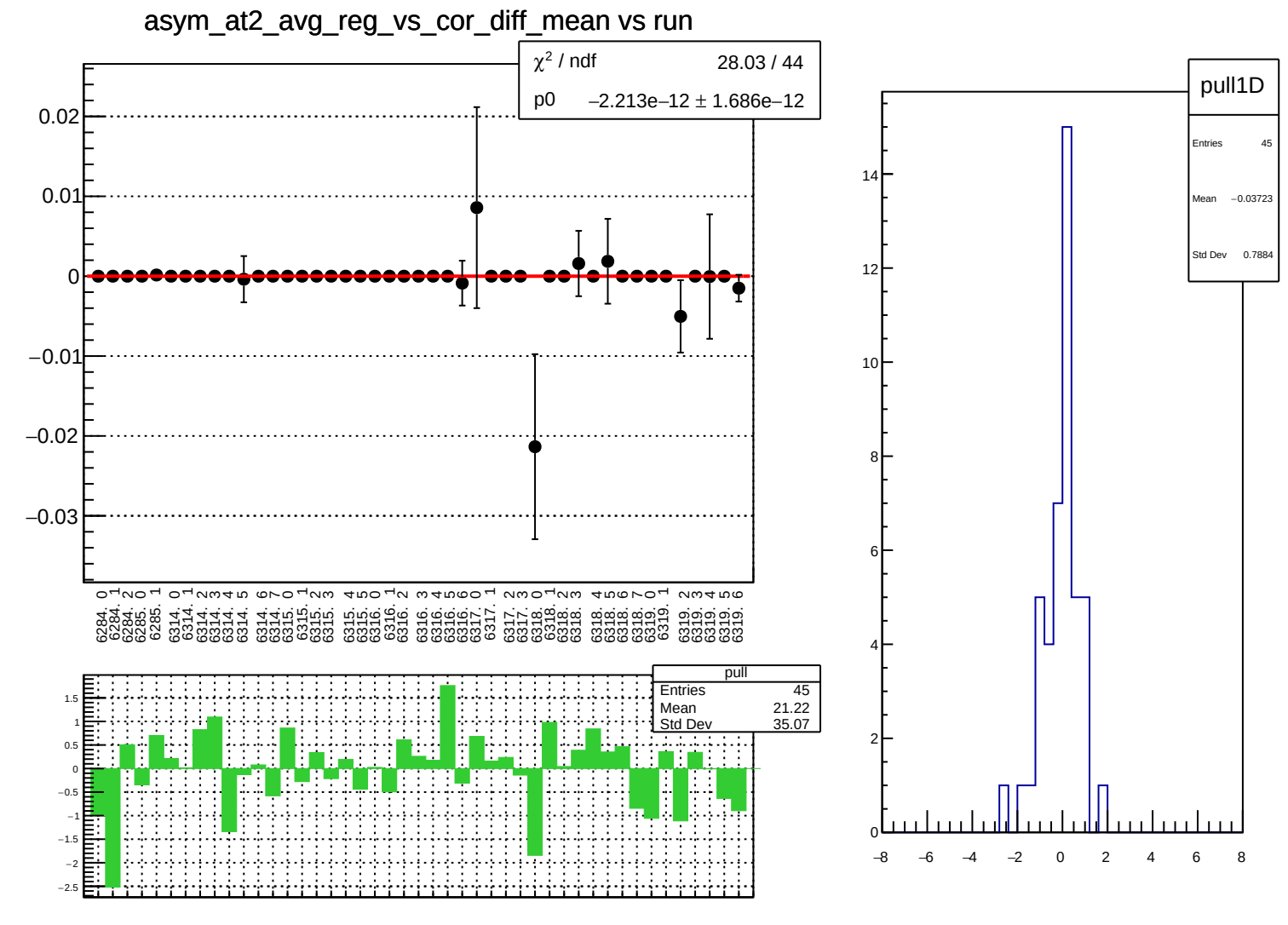

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 −1.58e+04 ± 1.696e+04
400
300
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −555.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.004435
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

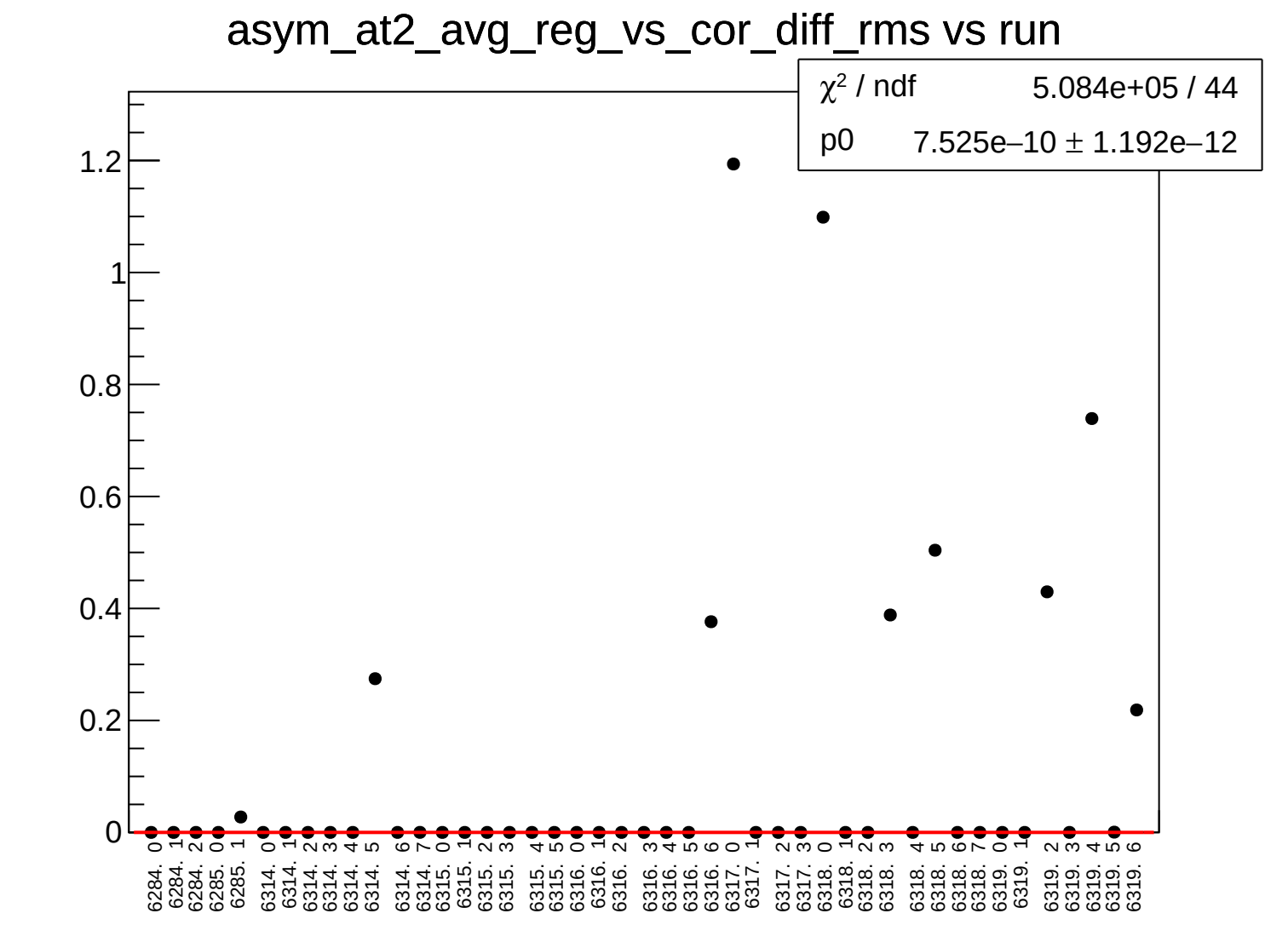

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6818 / 44
p0 1.138e+04 ± 11.99
16000
15000
14000
13000
12000
11000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

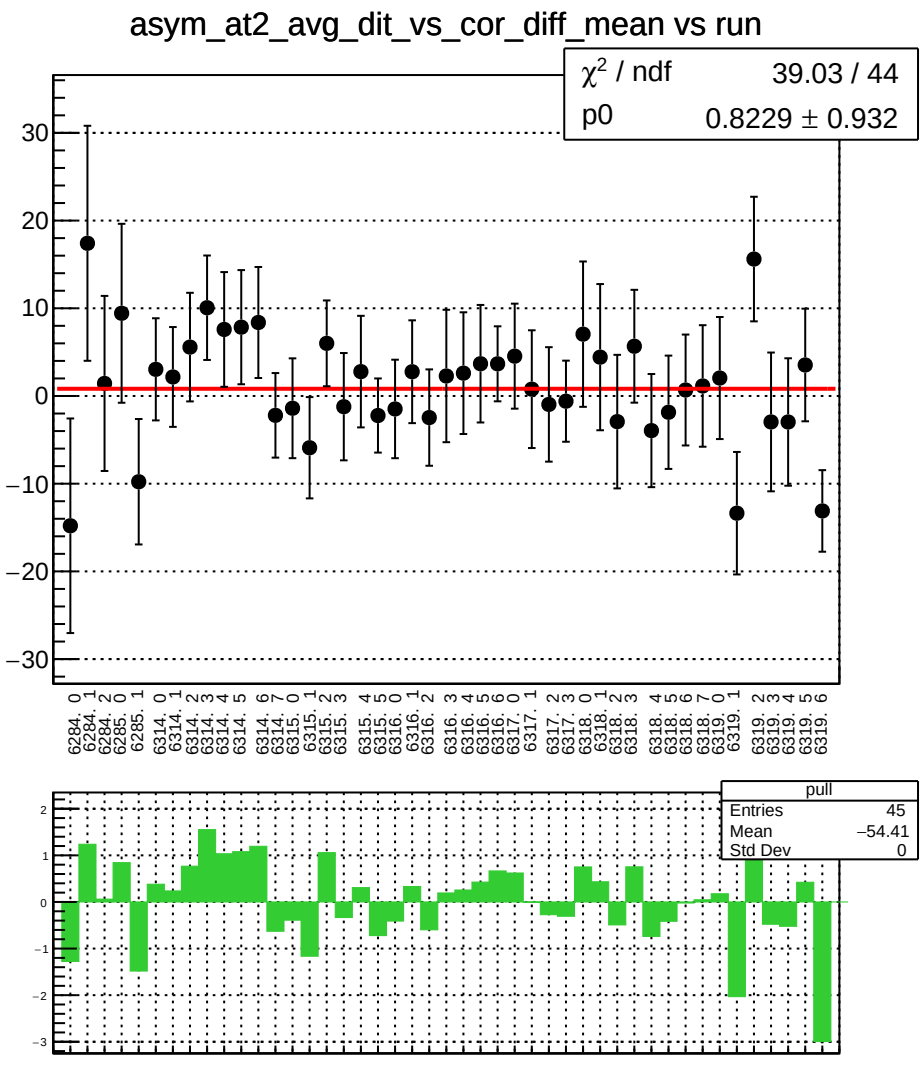

asym_at2_avg_mean vs run
×10^3
χ² / ndf 41.82 / 44
p0 1.651e+04 ± 1.693e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2531
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

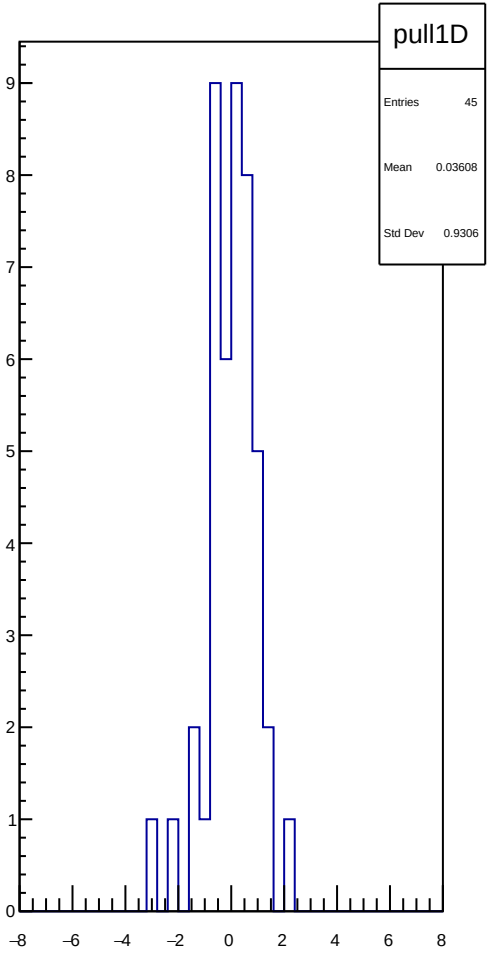

pull1D
Entries 45
Mean −0.0008726
Std Dev 0.964
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

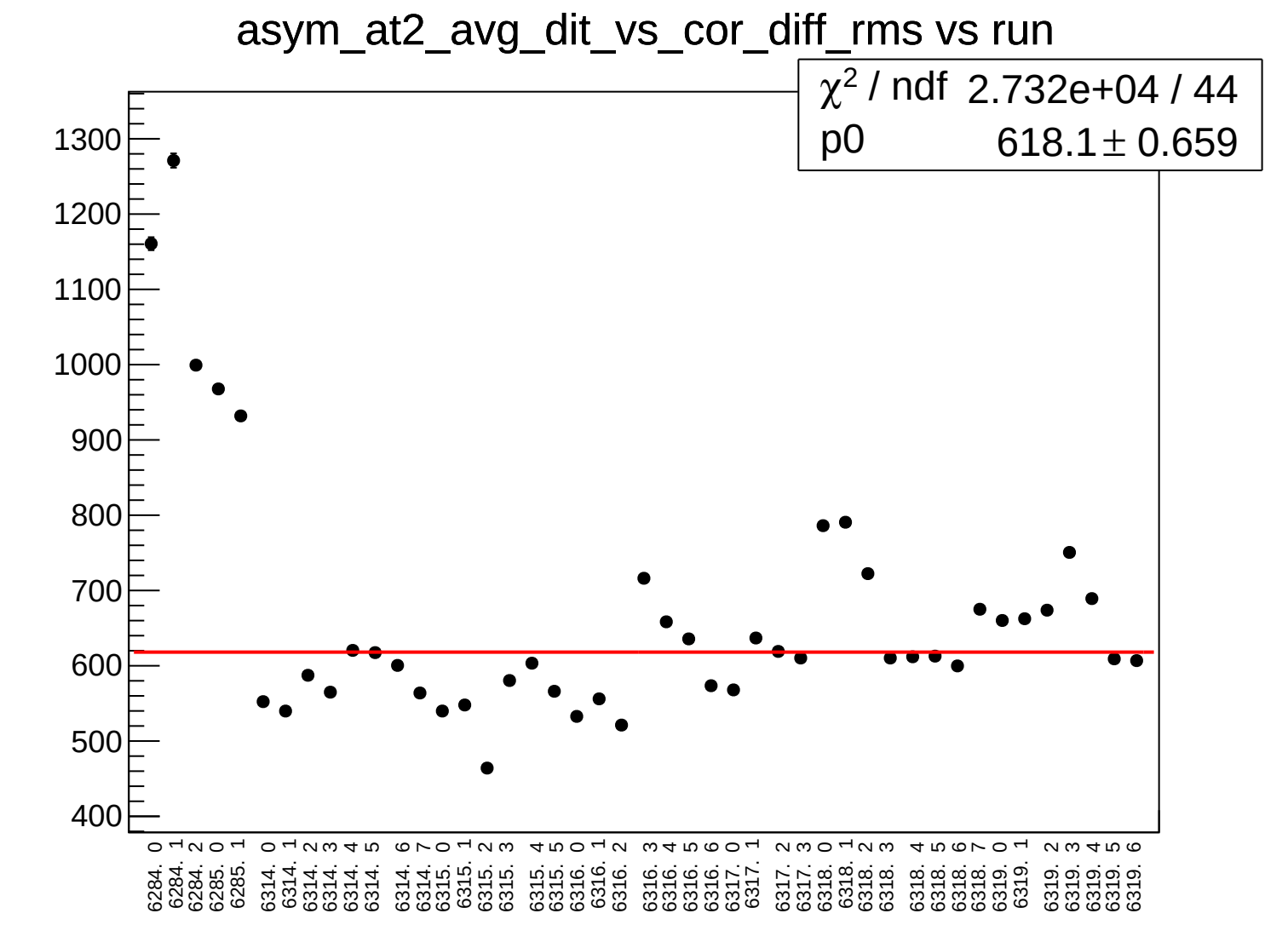

asym_at2_avg_rms vs run
χ² / ndf 9908 / 44
p0 1.134e+04 ± 11.97
17000
16000
15000
14000
13000
12000
11000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

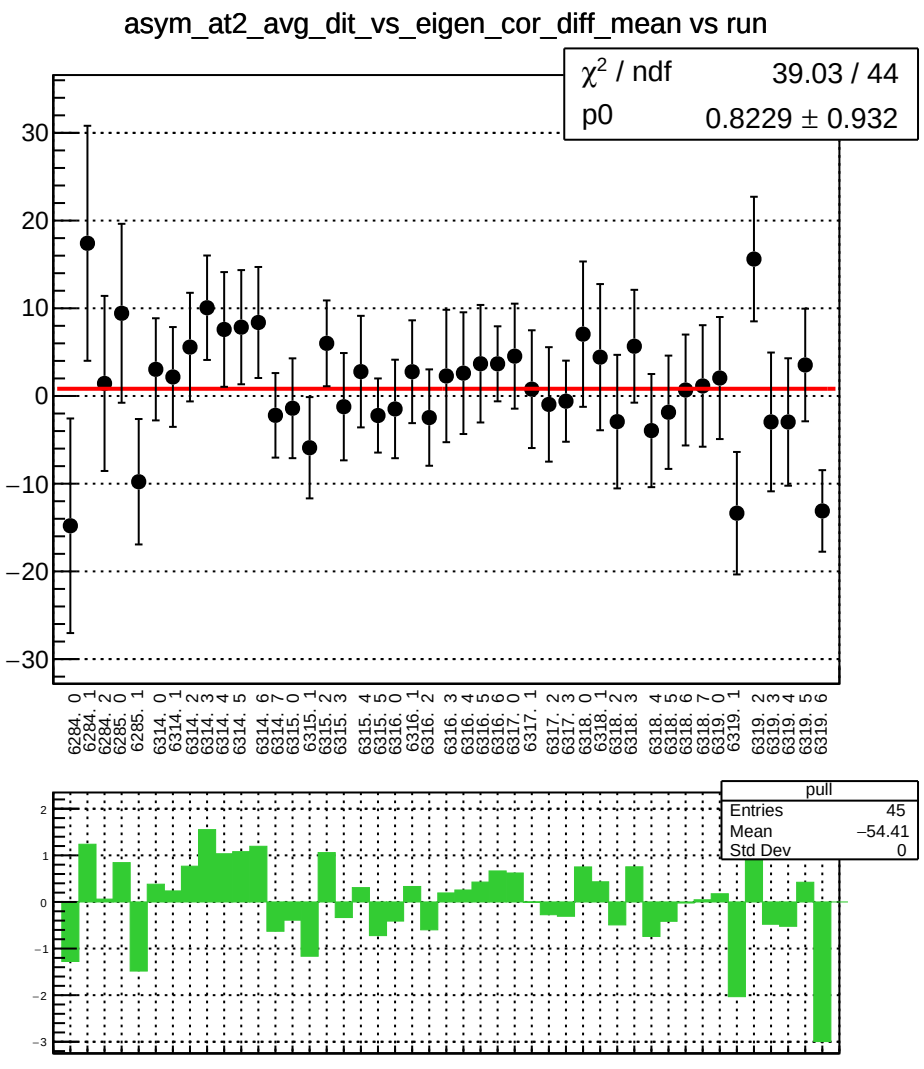

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.03 / 44
p0 −2.213e−12 ± 1.686e−12
0.02
0.01
0
−0.01
−0.02
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 21.22
Std Dev 35.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.03723
Std Dev 0.7884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

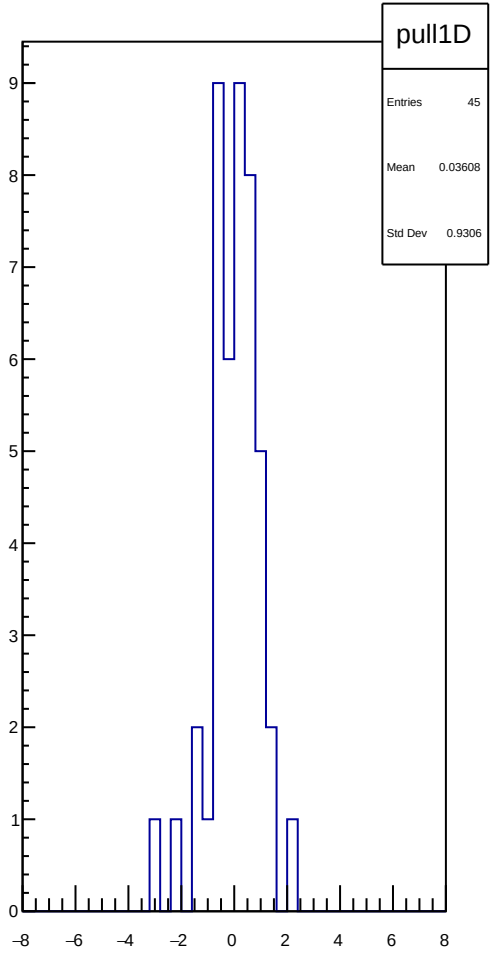

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.084e+05 / 44
p0 7.525e−10 ± 1.192e−12
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

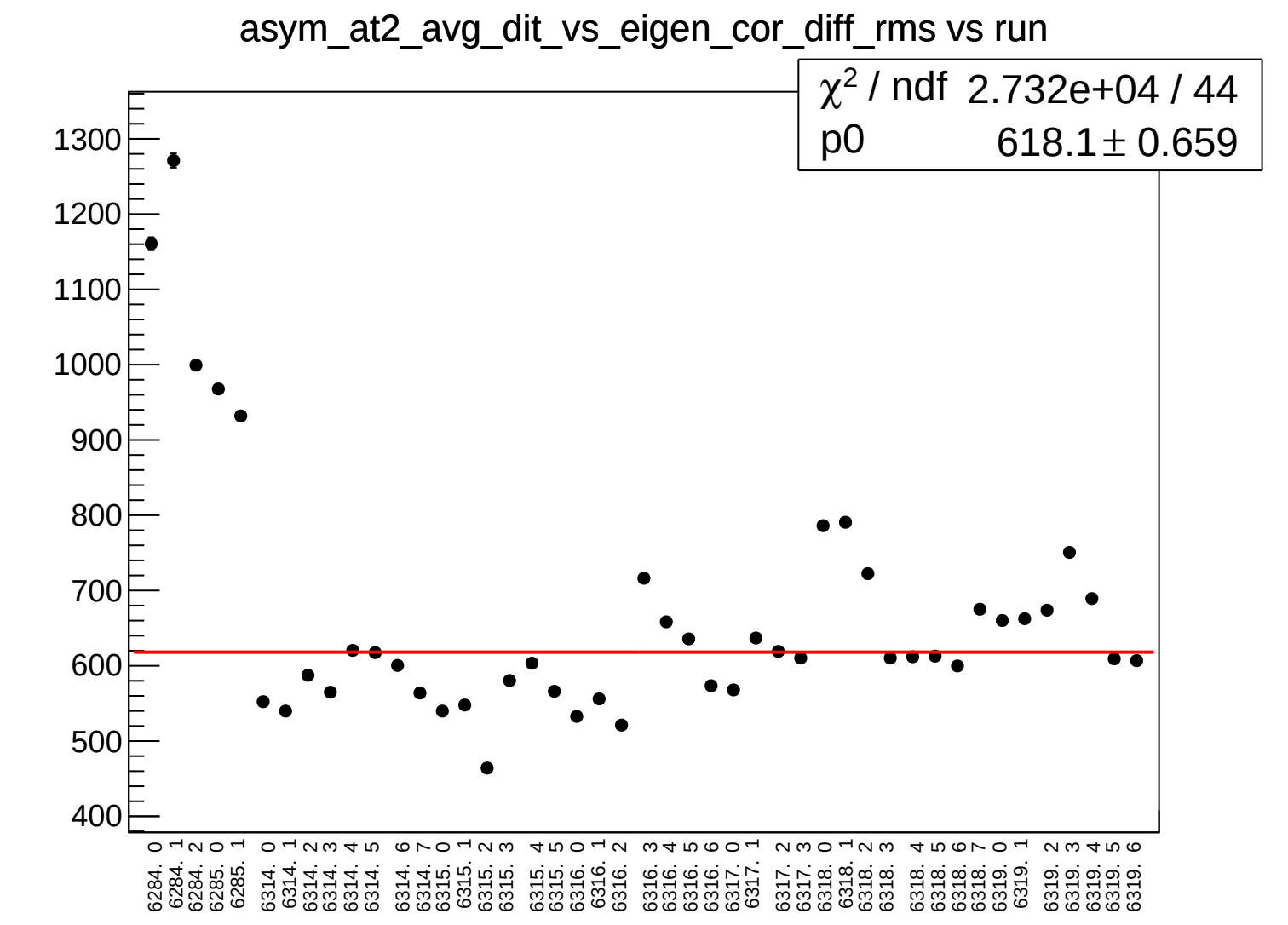

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.03 / 44
p0 0.8229 ± 0.932
pull
Entries 45
Mean −54.41
Std Dev 0

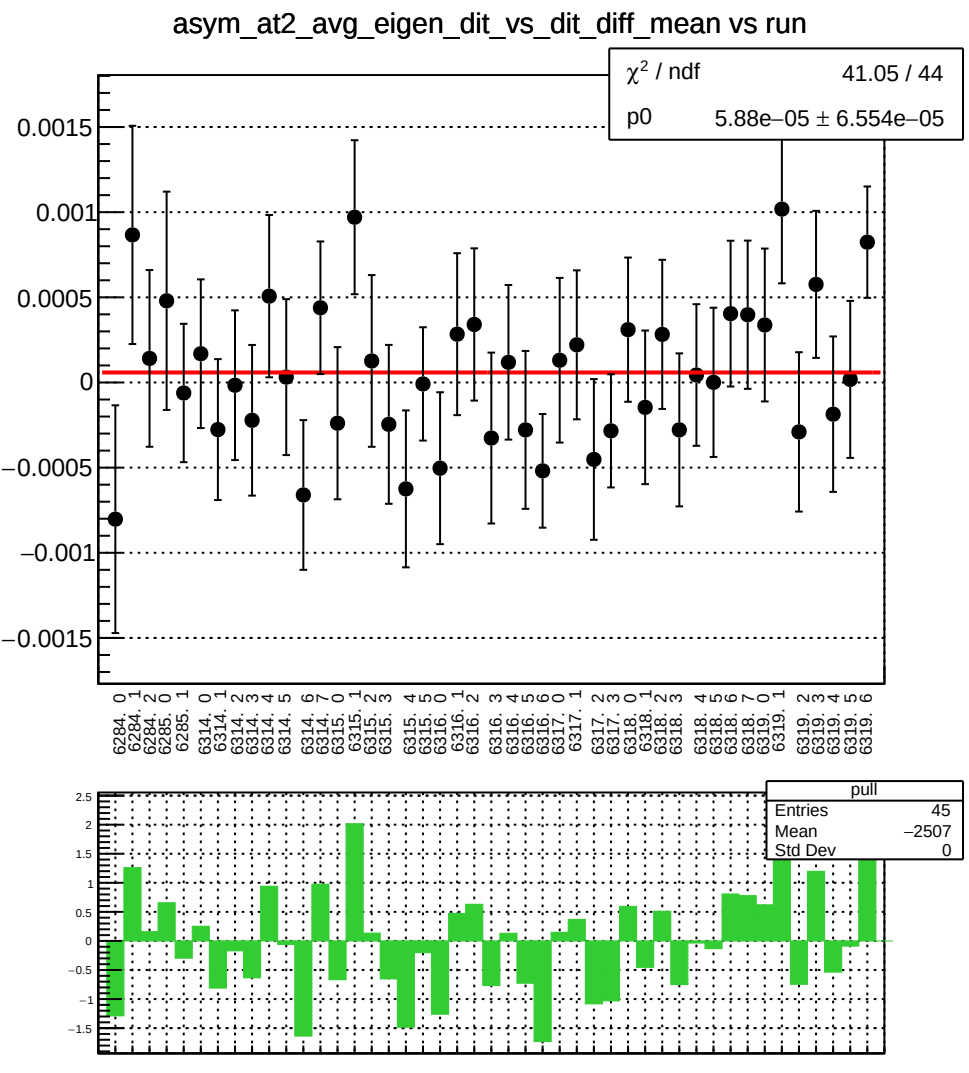

pull1D
Entries 45
Mean 0.03608
Std Dev 0.9306

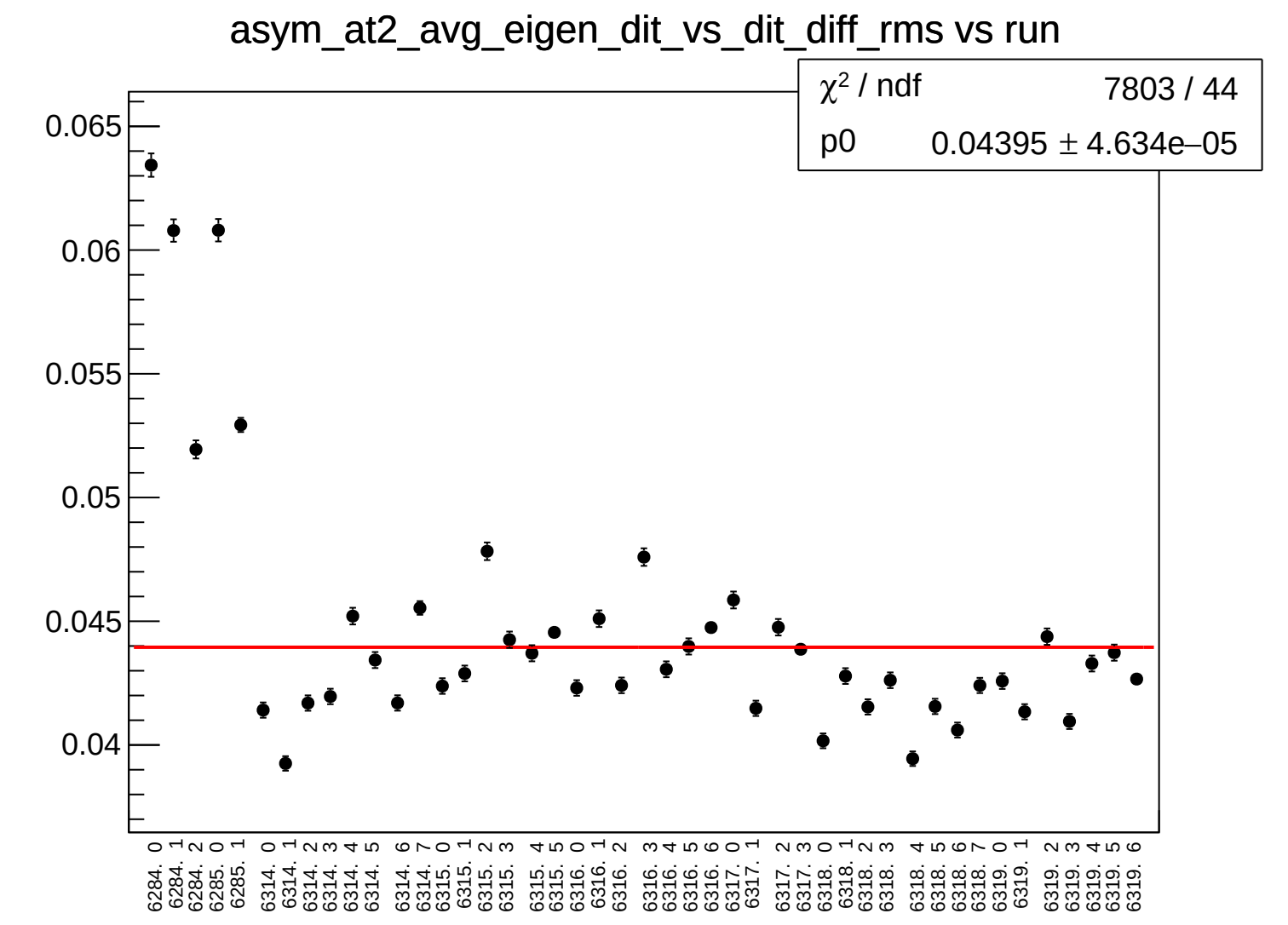

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.732e+04 / 44
p0 618.1 ± 0.659
1300
1200
1100
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

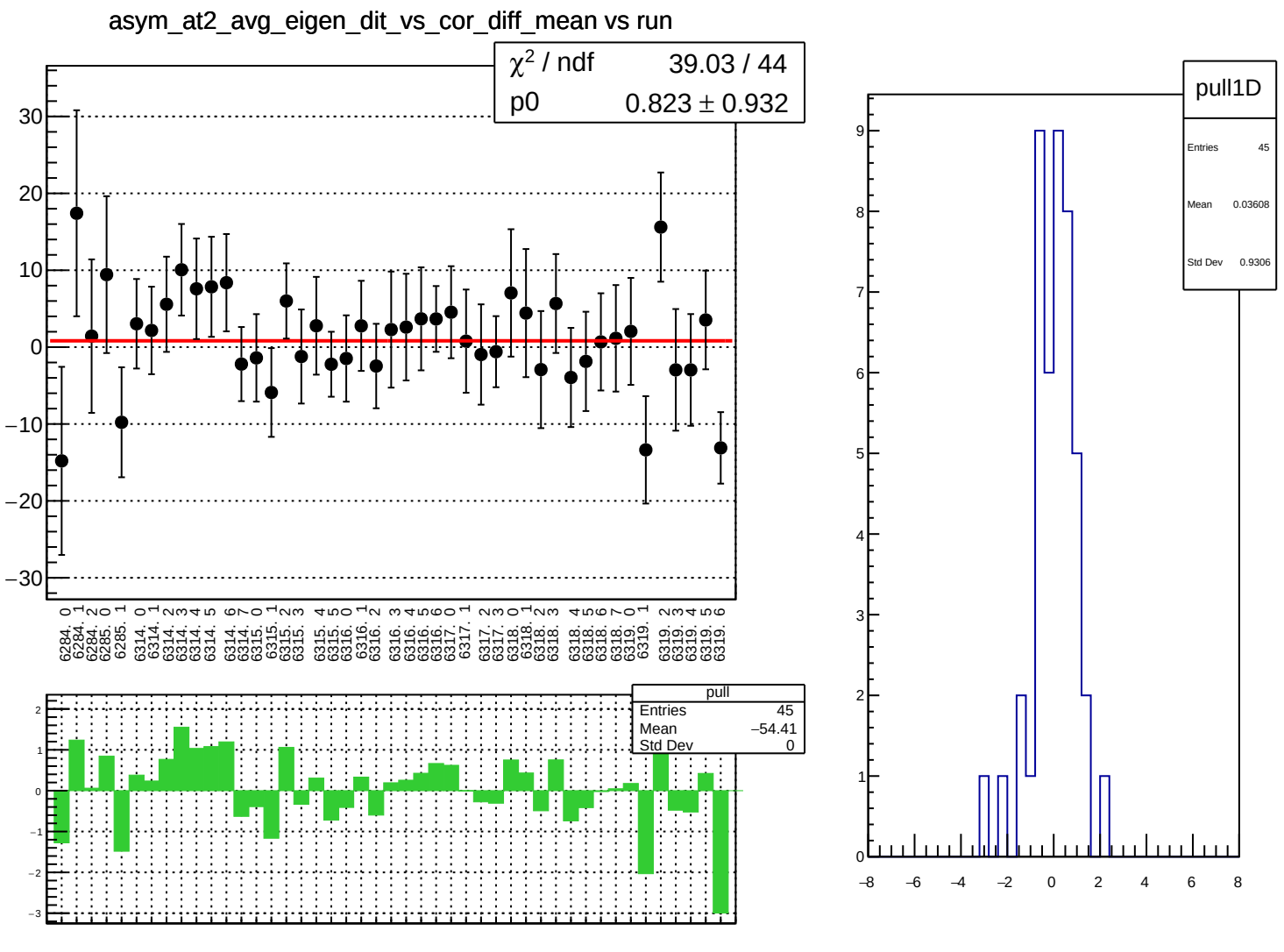

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.03 / 44
p0 0.8229 ± 0.932
pull
Entries 45
Mean −54.41
Std Dev 0

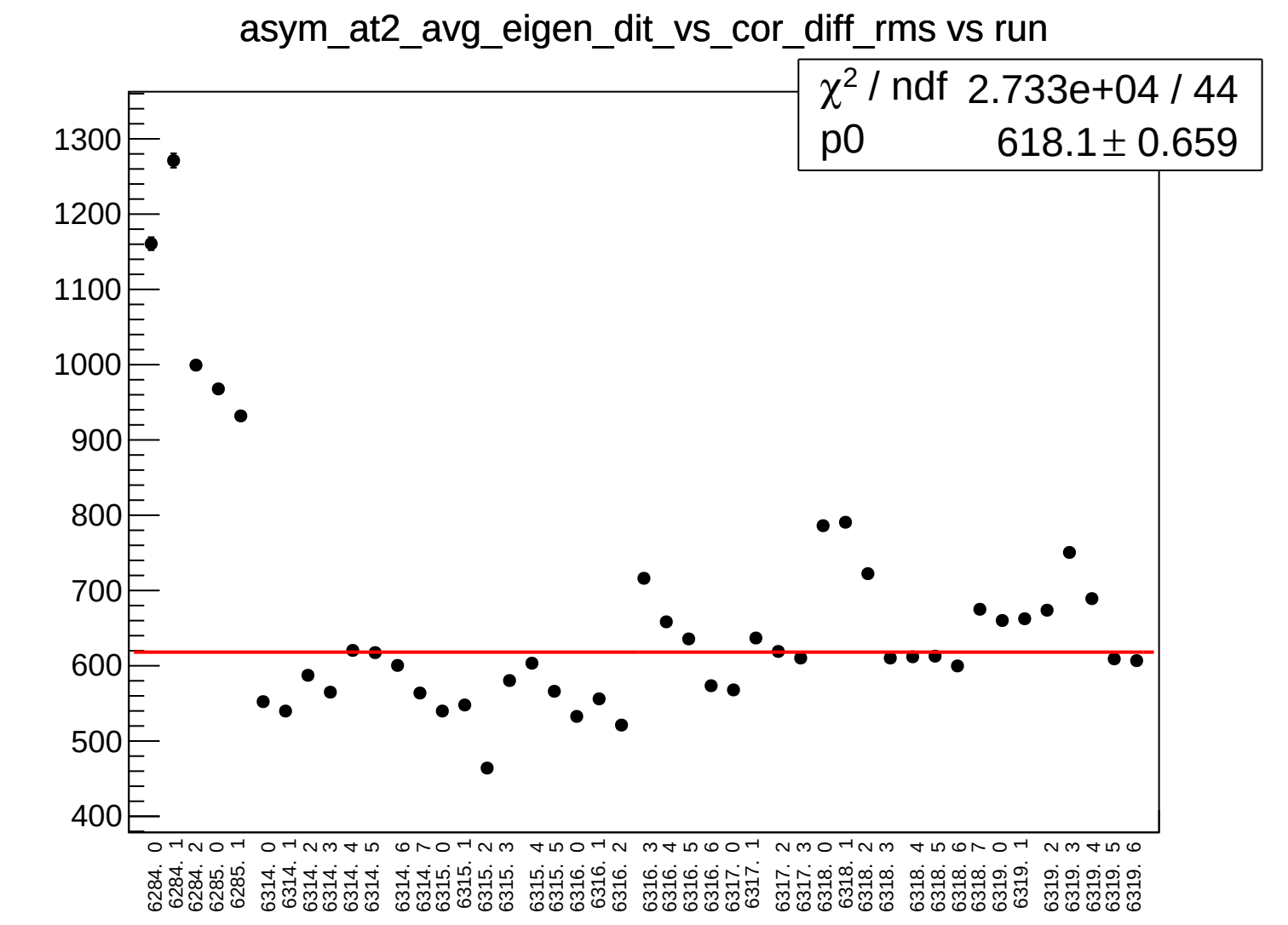

pull1D
Entries 45
Mean 0.03608
Std Dev 0.9306

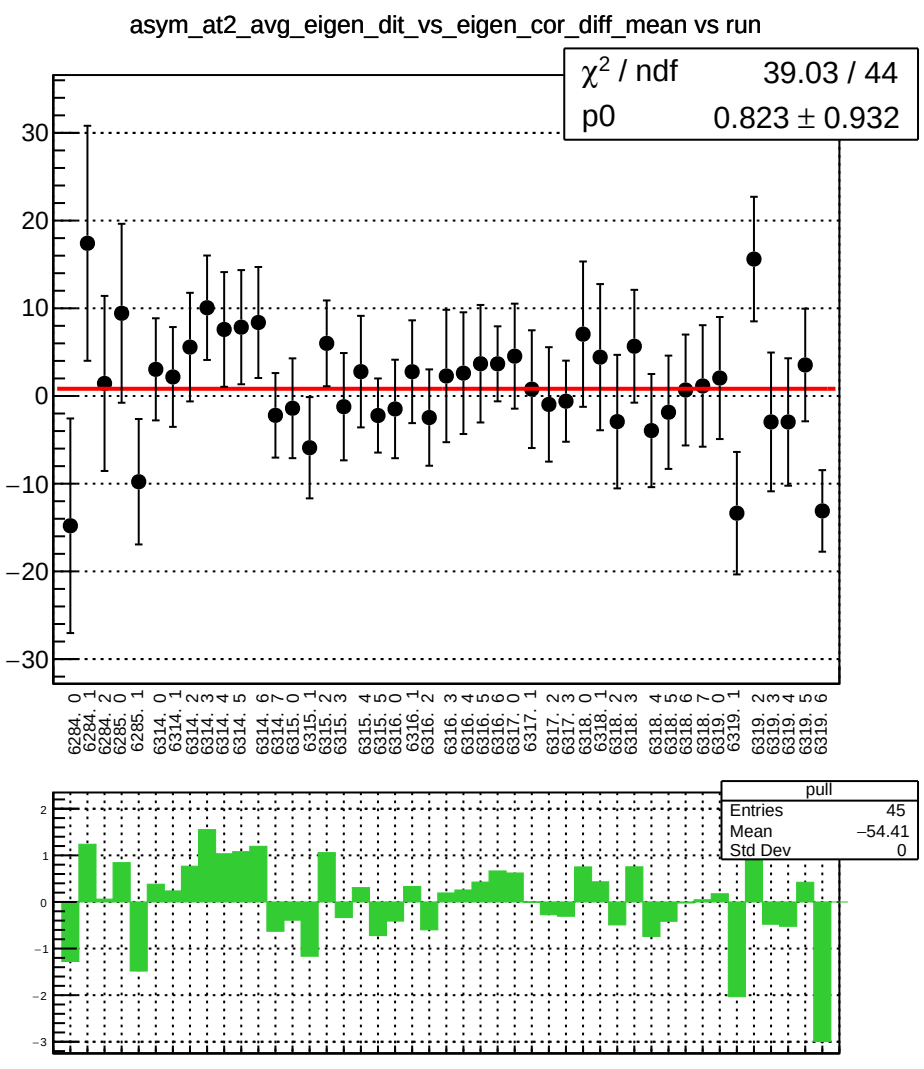

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.732e+04 / 44
p0 618.1 ± 0.659
1300
1200
1100
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

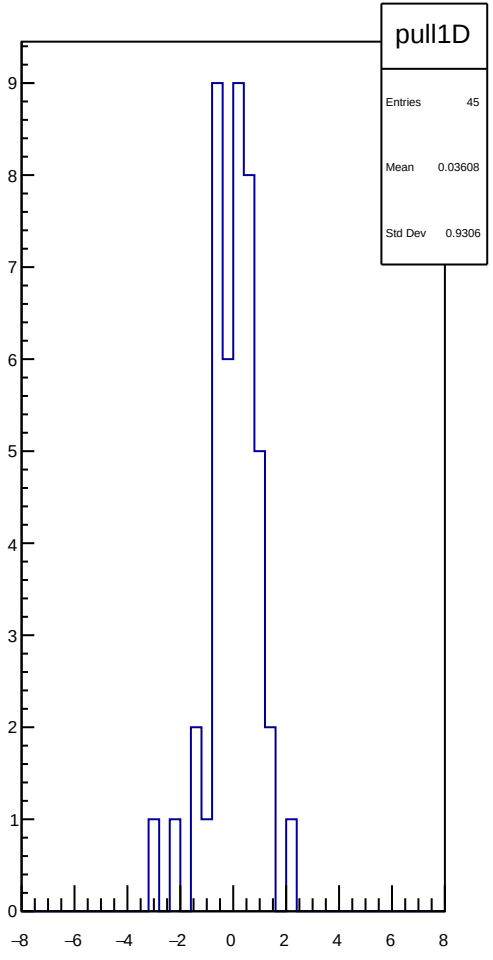

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.05 / 44
p0 5.88e−05 ± 6.554e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2507
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0009477
Std Dev 0.9551
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

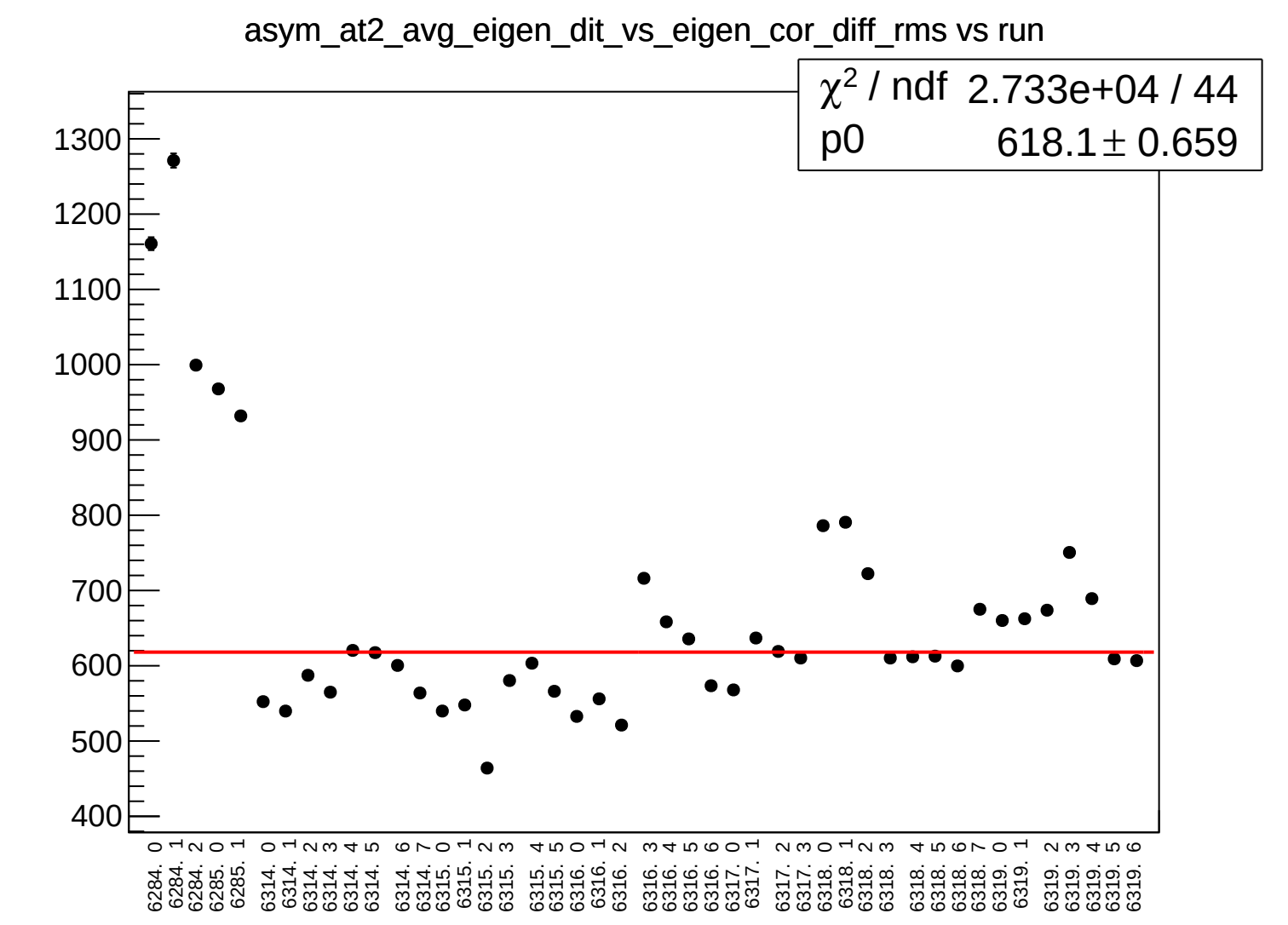

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7803 / 44
p0 0.04395 ± 4.634e−05
0.065
0.06
0.055
0.05
0.045
0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

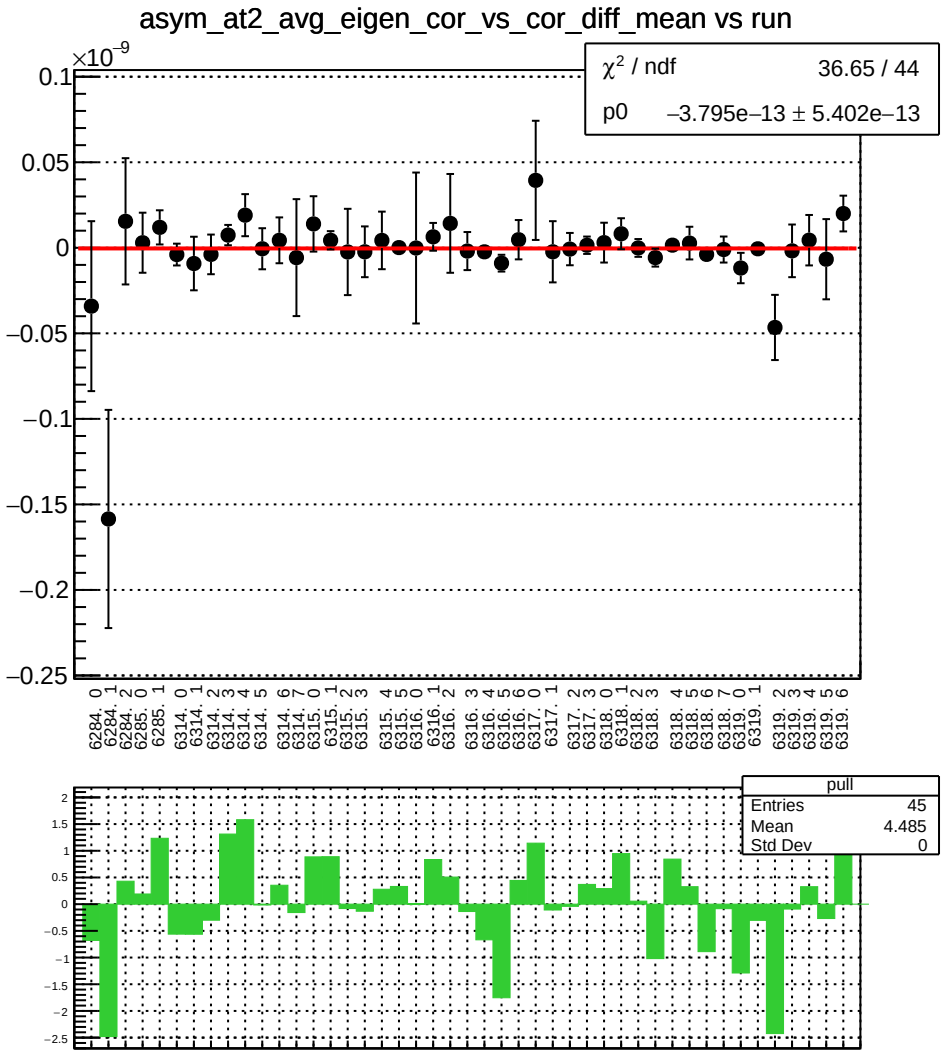

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.03 / 44
p0 0.823 ± 0.932
pull
Entries 45
Mean −54.41
Std Dev 0
pull1D
Entries 45
Mean 0.03608
Std Dev 0.9306

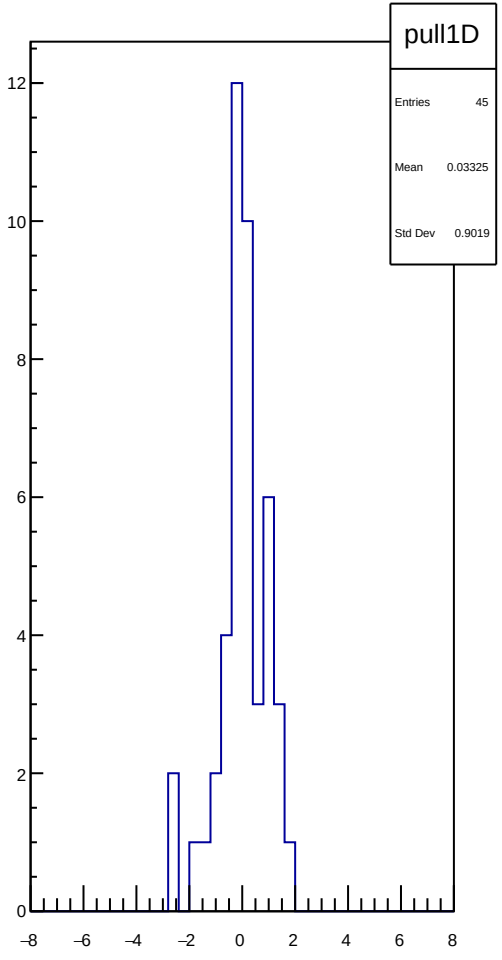

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.733e+04 / 44
p0 618.1 ± 0.659
1300
1200
1100
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

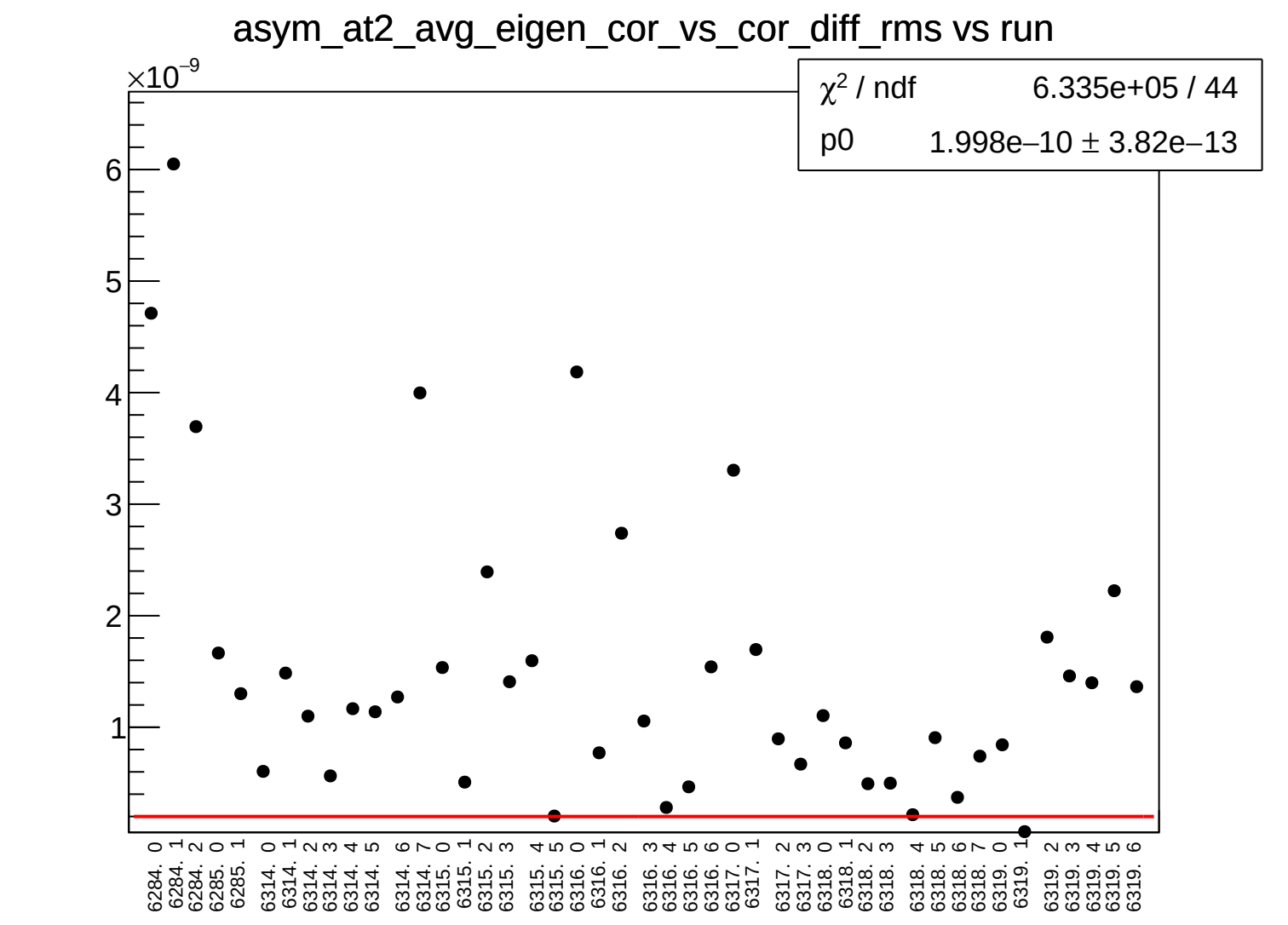

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.03 / 44
p0 0.823 ± 0.932
pull
Entries 45
Mean −54.41
Std Dev 0

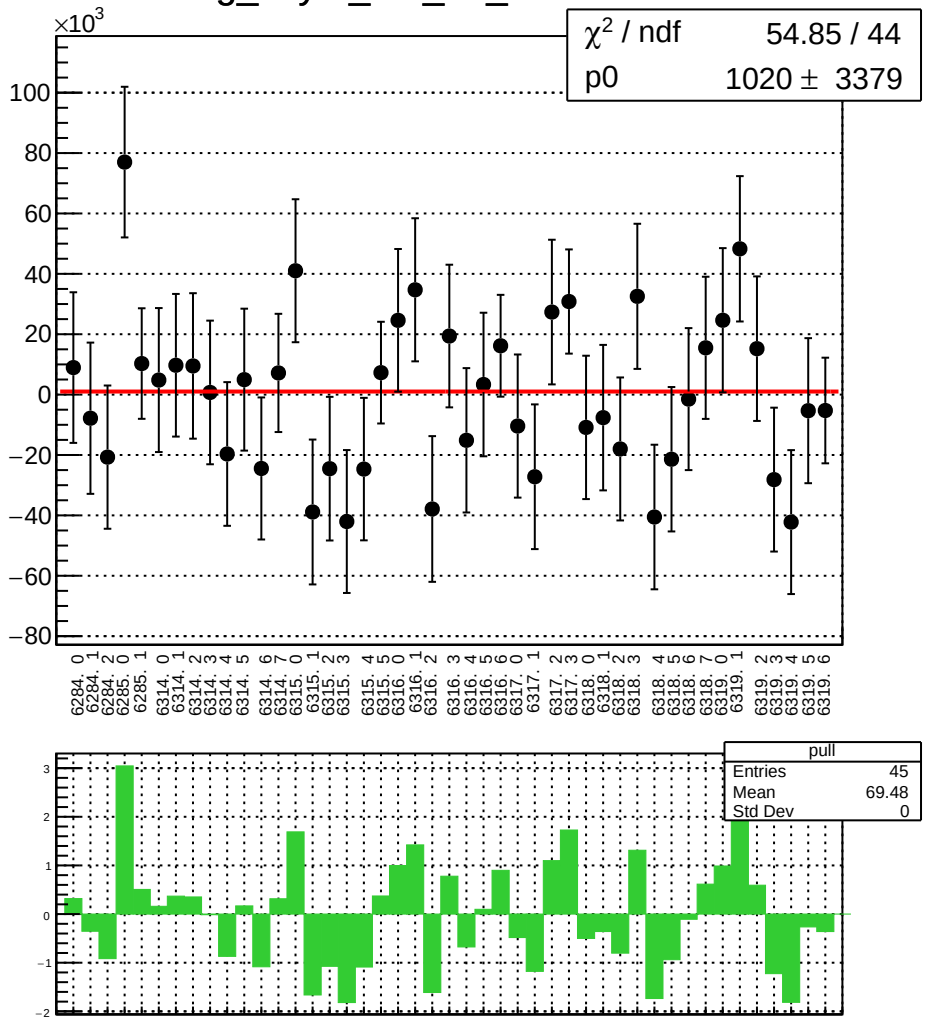

pull1D
Entries 45
Mean 0.03608
Std Dev 0.9306

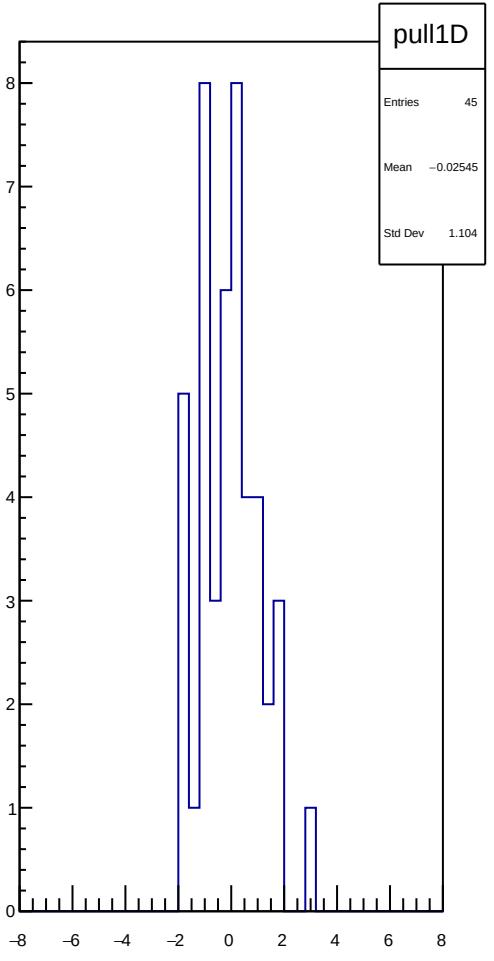

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.733e+04 / 44
p0 618.1 ± 0.659
1300
1200
1100
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

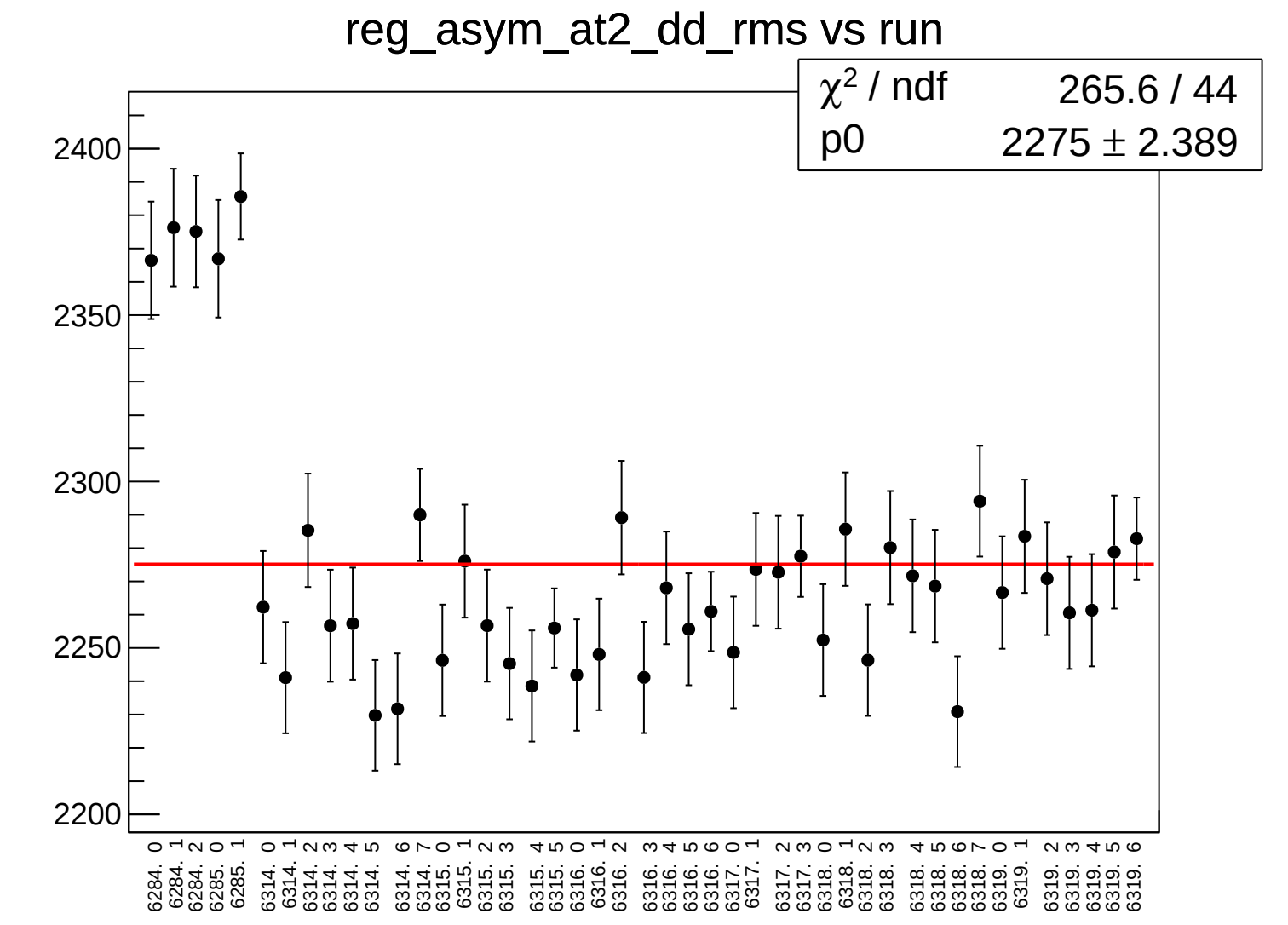

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 36.65 / 44
p0 −3.795e−13 ± 5.402e−13
pull
Entries 45
Mean 4.485
Std Dev 0

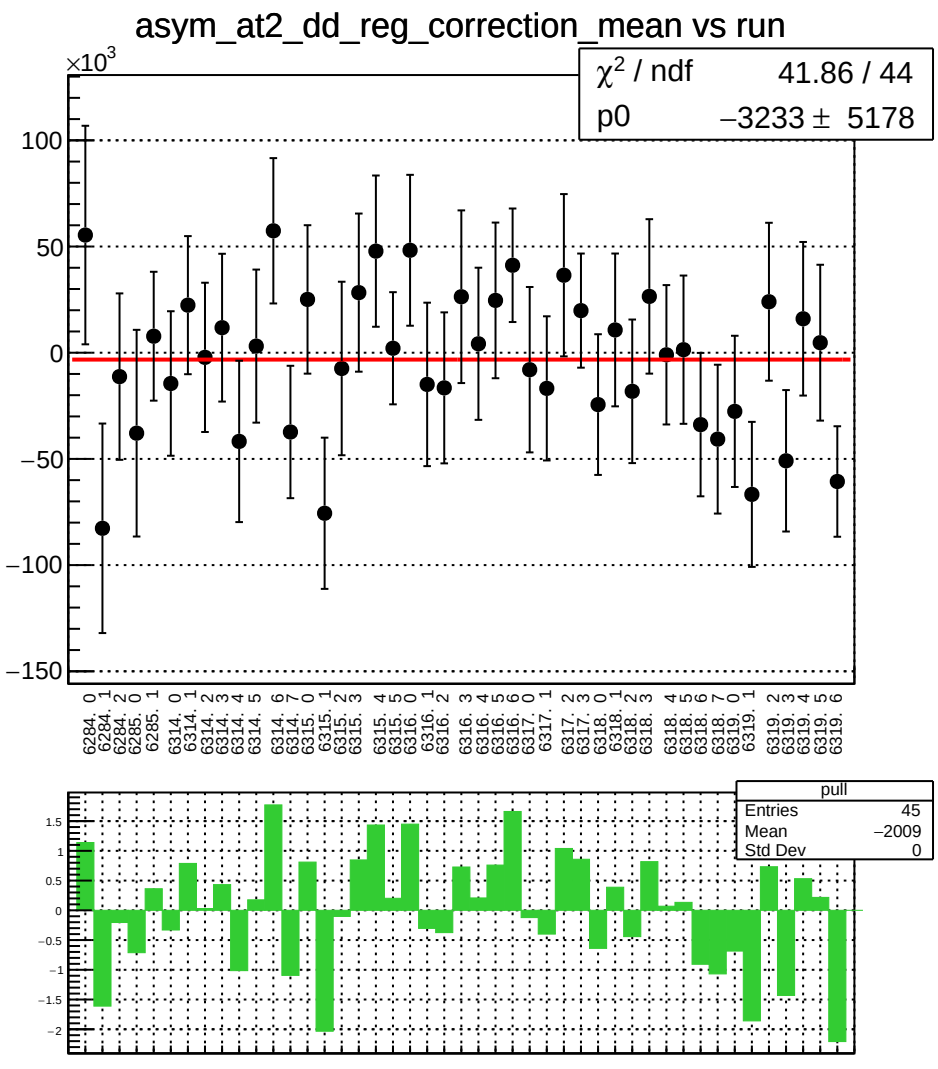

pull1D
Entries 45
Mean 0.03325
Std Dev 0.9019

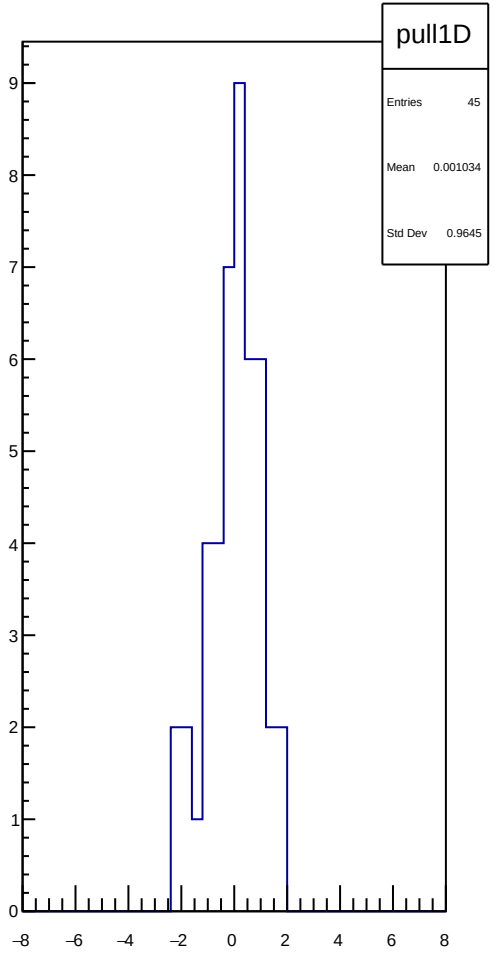

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.335e+05 / 44
p0 1.998e−10 ± 3.82e−13
1
2
3
4
5
6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

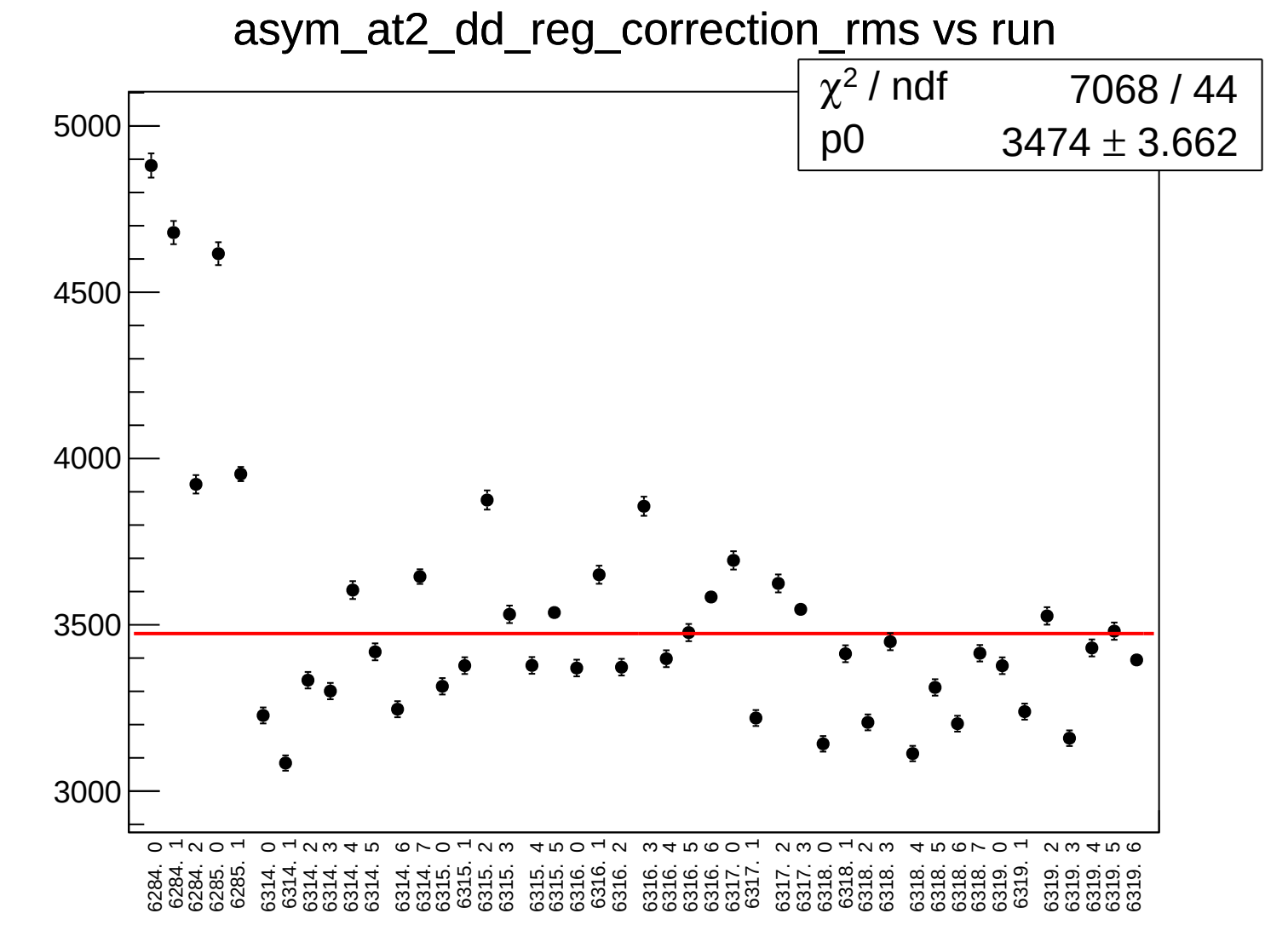

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 54.85 / 44
p0 1020 ± 3379
pull
Entries 45
Mean 69.48
Std Dev 0

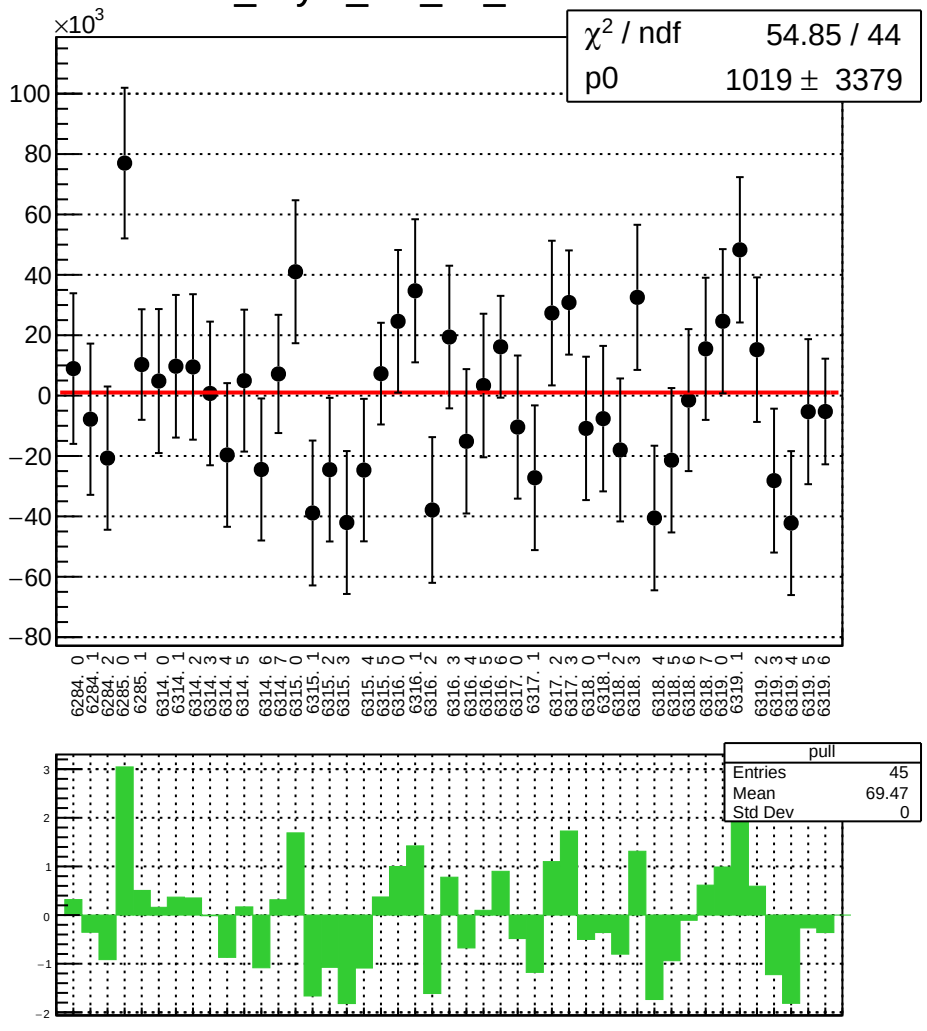

pull1D
Entries 45
Mean −0.02545
Std Dev 1.104

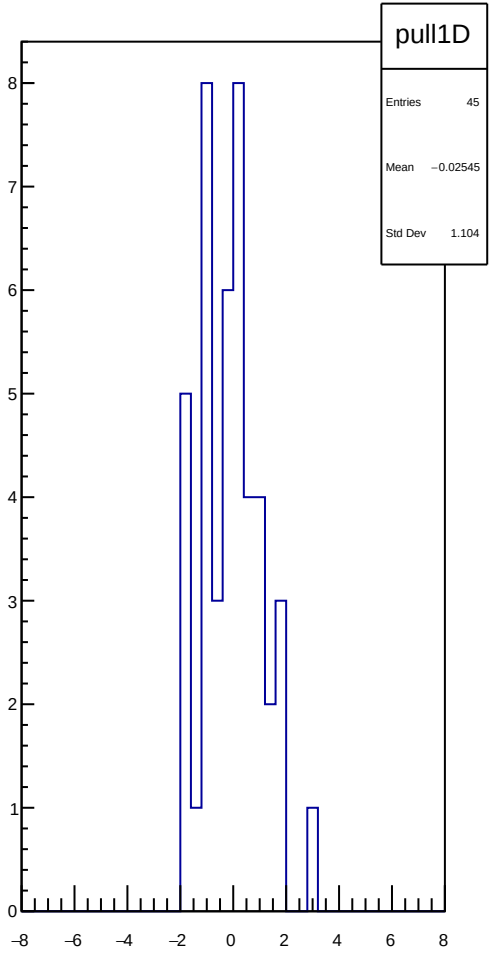

reg_asym_at2_dd_rms vs run
χ² / ndf 265.6 / 44
p0 2275 ± 2.389
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

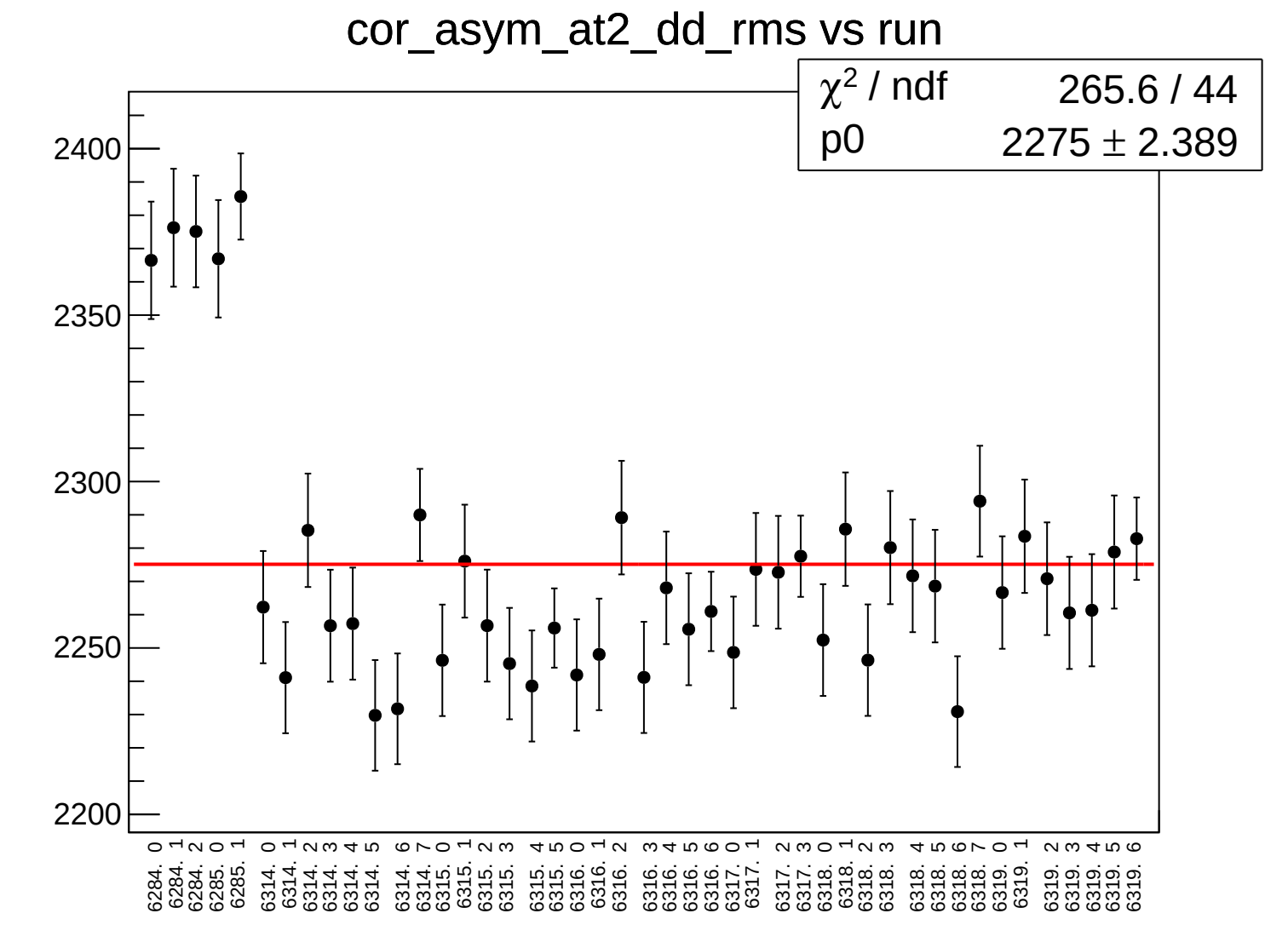

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.86 / 44
p0 −3233 ± 5178
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2009
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001034
Std Dev 0.9645
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7068 / 44
p0 3474 ± 3.662
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 54.85 / 44
p0 1019 ± 3379
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 69.47
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02545
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_dd_rms vs run
χ² / ndf 265.6 / 44
p0 2275 ± 2.389
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
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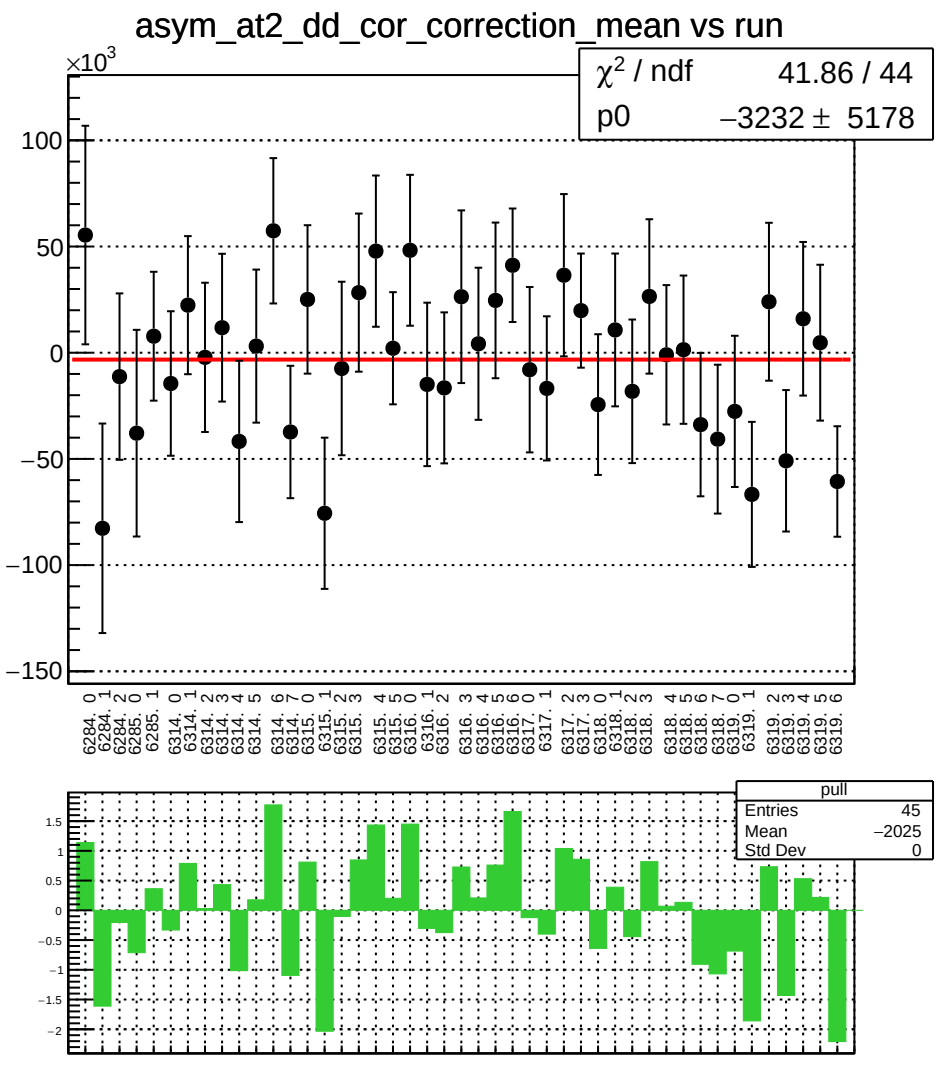
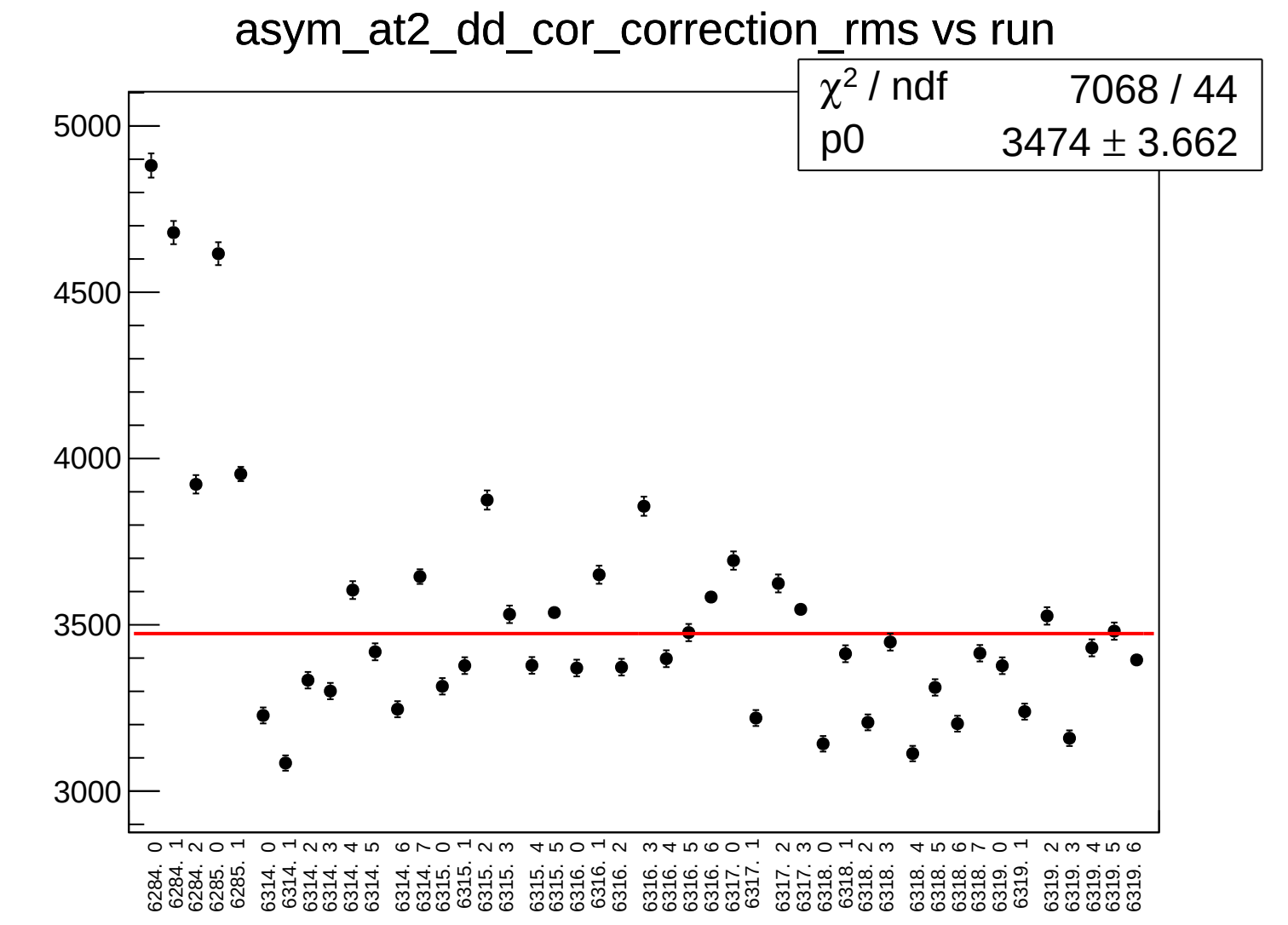
6319. 6


asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.86 / 44
p0 −3232 ± 5178
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2025
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001026
Std Dev 0.9645
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7068 / 44
p0 3474 ± 3.662
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6316. 0
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6316. 2
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6316. 6
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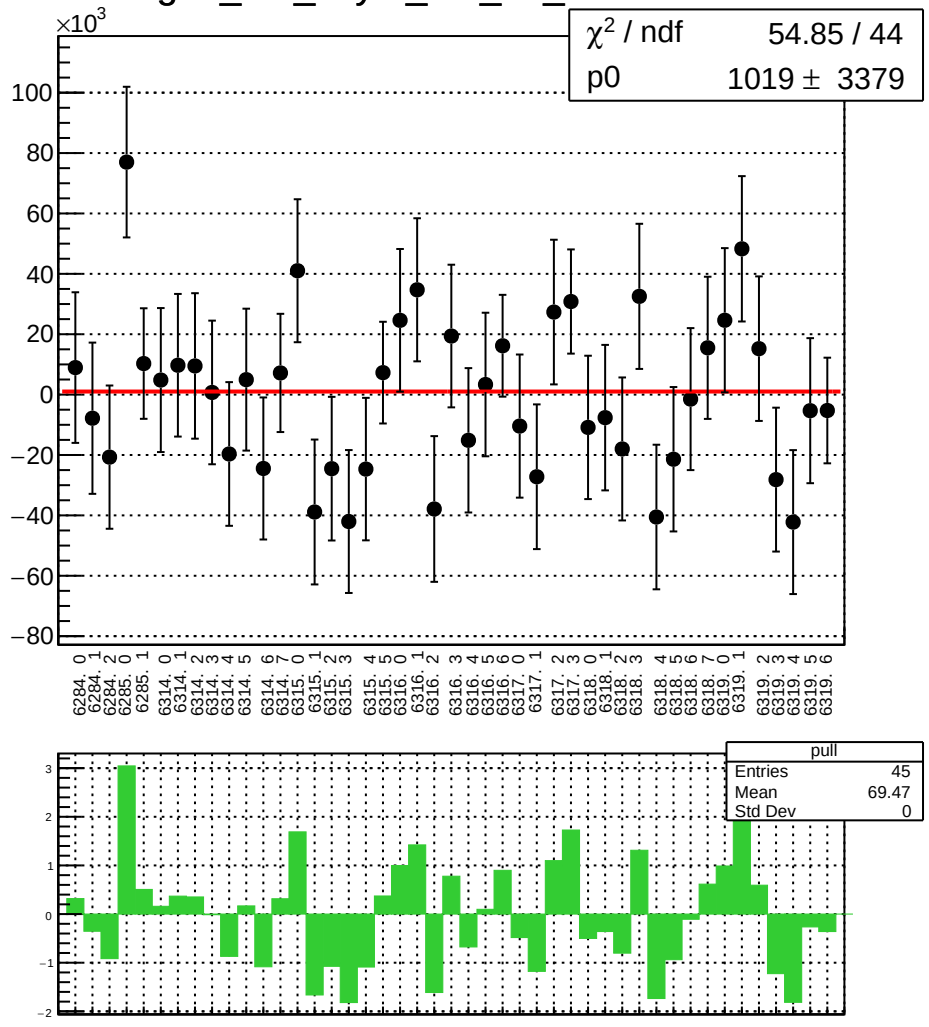
eigen_cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 54.85 / 44
p0 1019 ± 3379
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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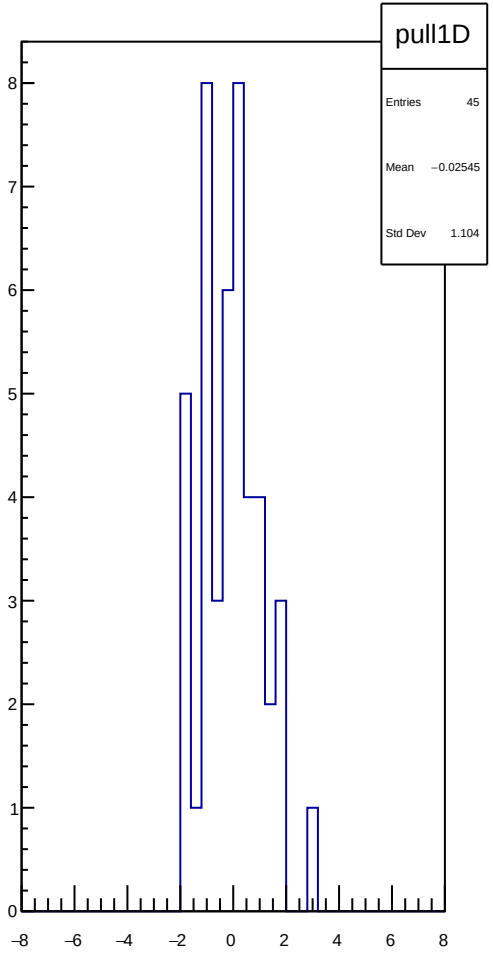
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 69.47
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02545
Std Dev 1.104
8
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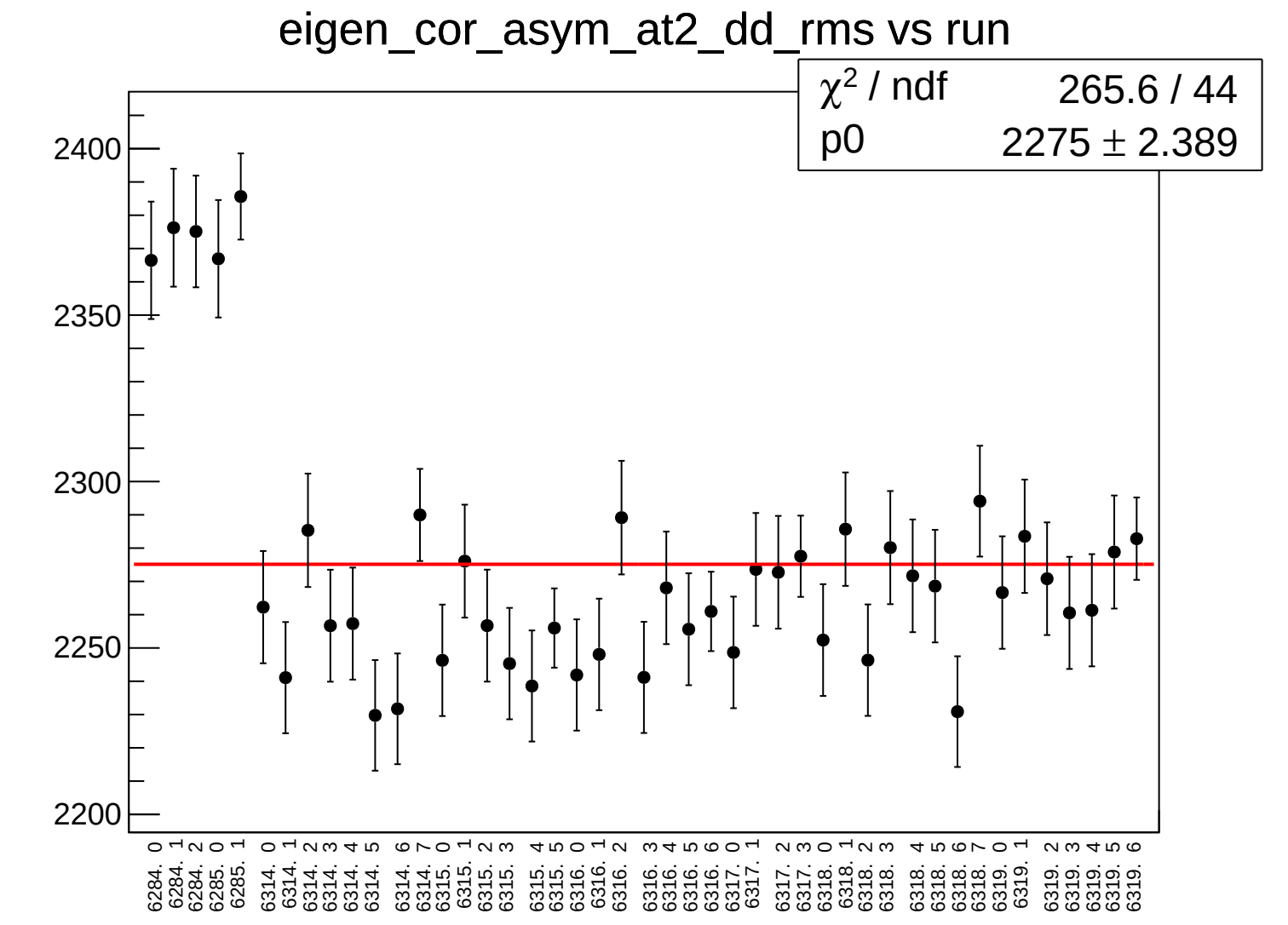
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 265.6 / 44
p0 2275 ± 2.389
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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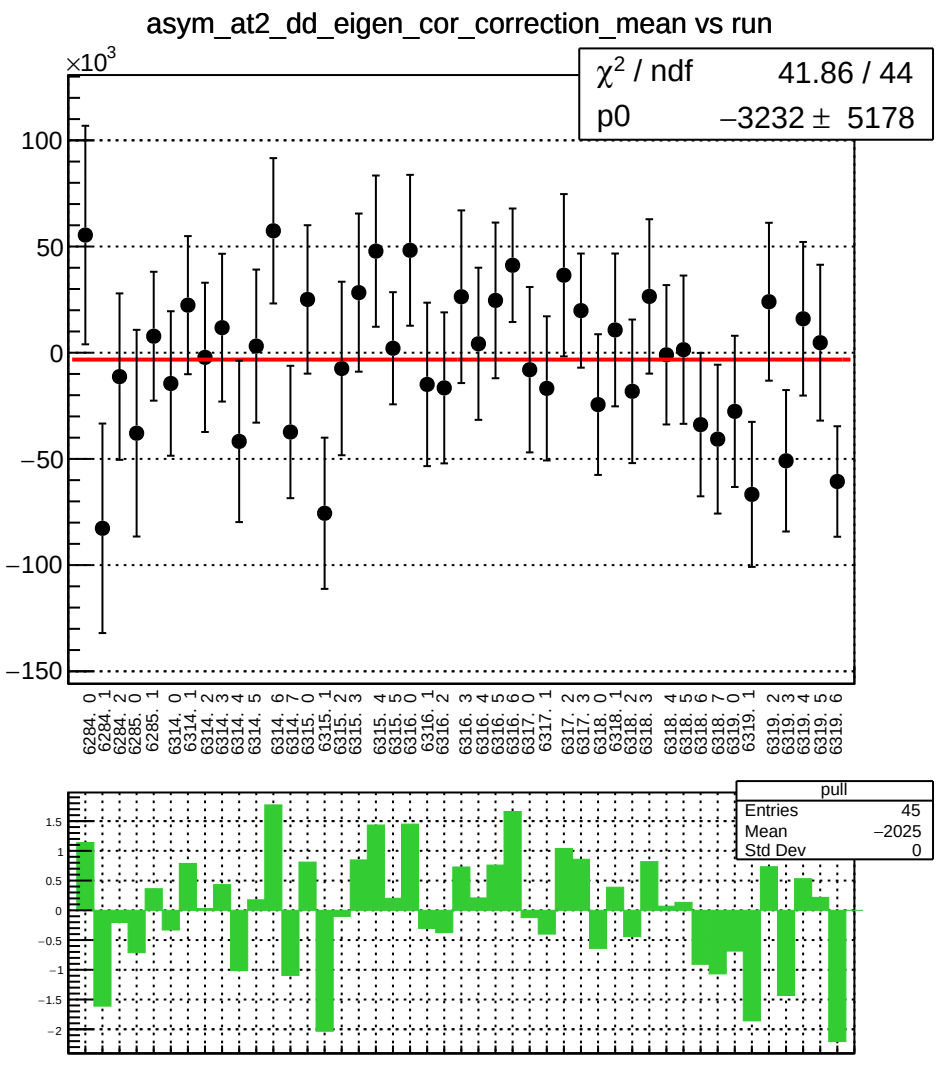
6319. 6


asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.86 / 44
p0 −3232 ± 5178
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
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6316. 4
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6316. 6
6317. 0
6317. 1
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6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2025
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001026
Std Dev 0.9645
9
8
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5
4
3
2
1
0
−8
−6
−4
−2
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2
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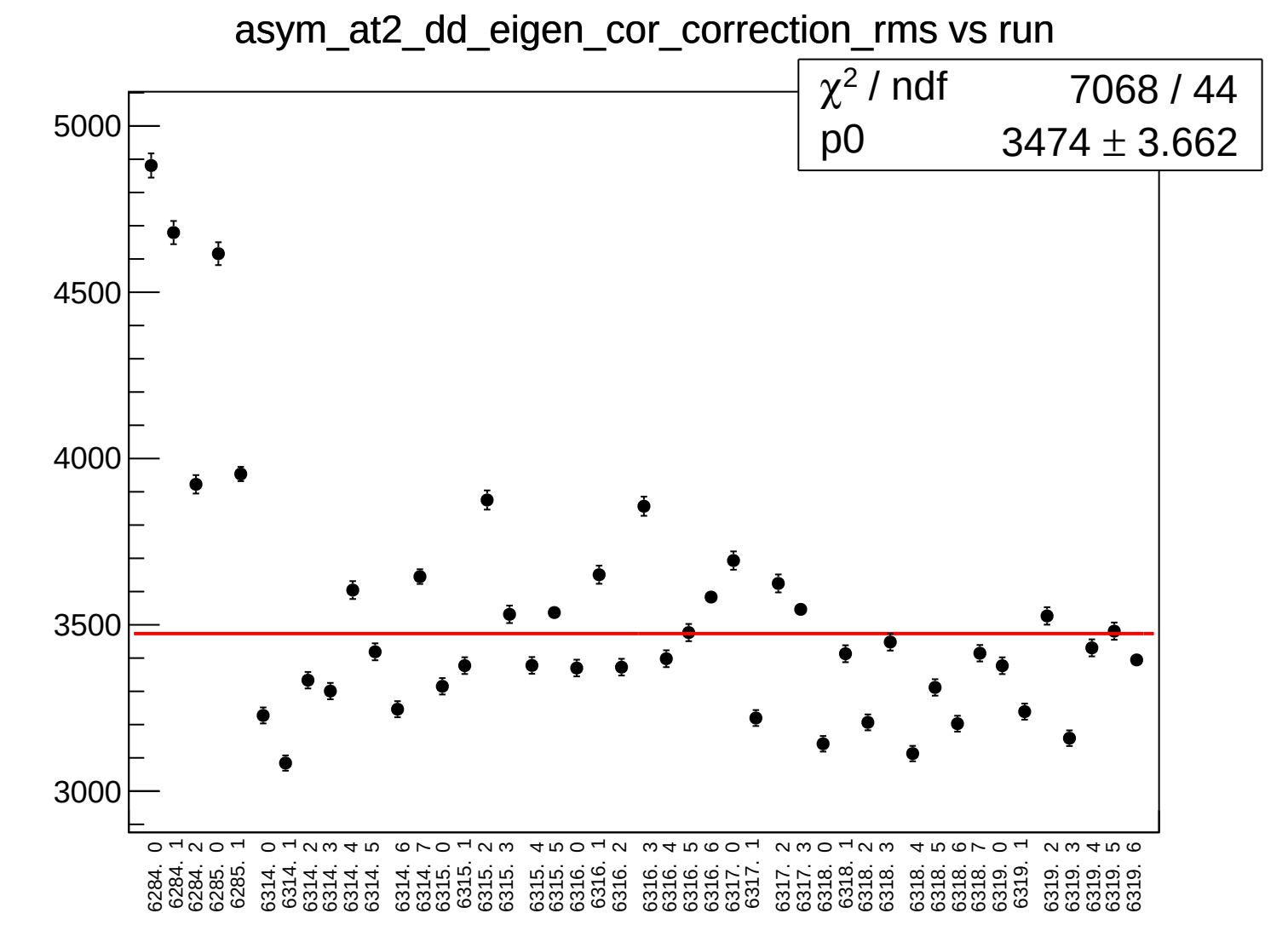
6
8


asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7068 / 44
p0 3474 ± 3.662
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 2
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
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6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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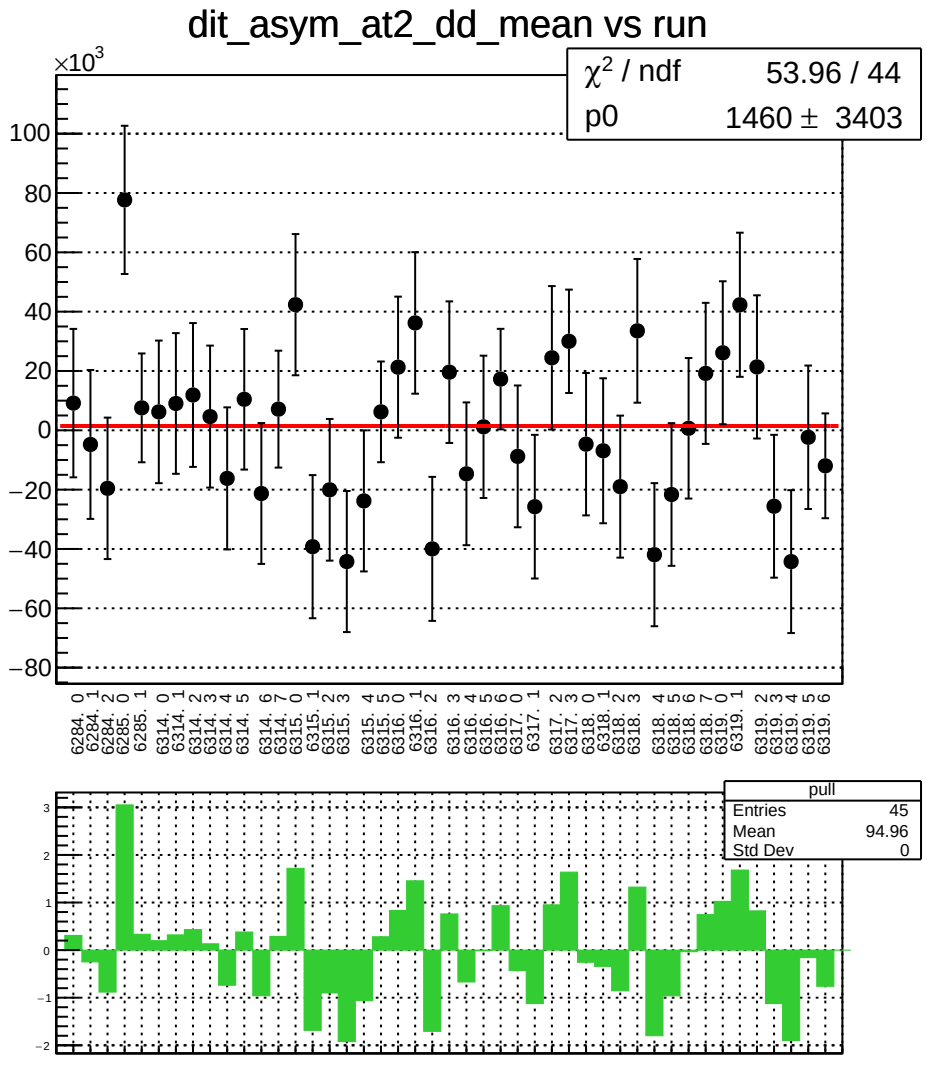
dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 53.96 / 44
p0 1460 ± 3403
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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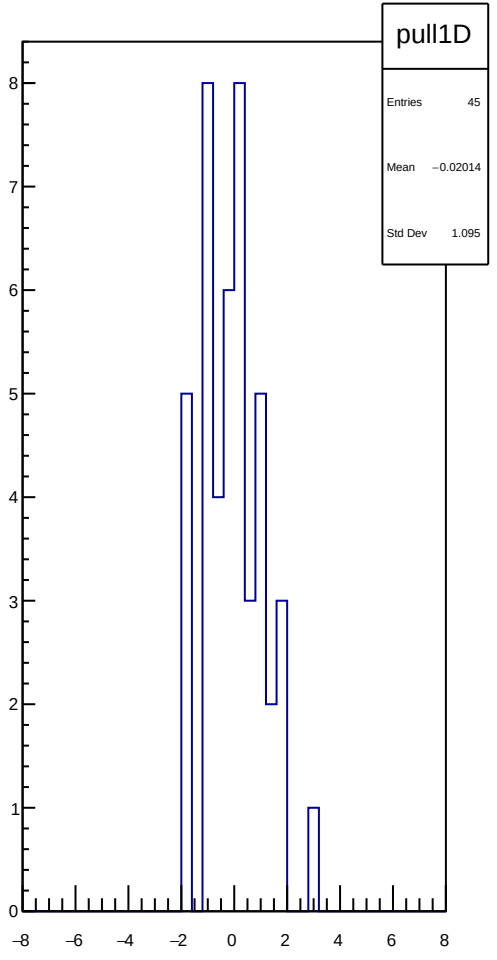
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 94.96
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02014
Std Dev 1.095
8
7
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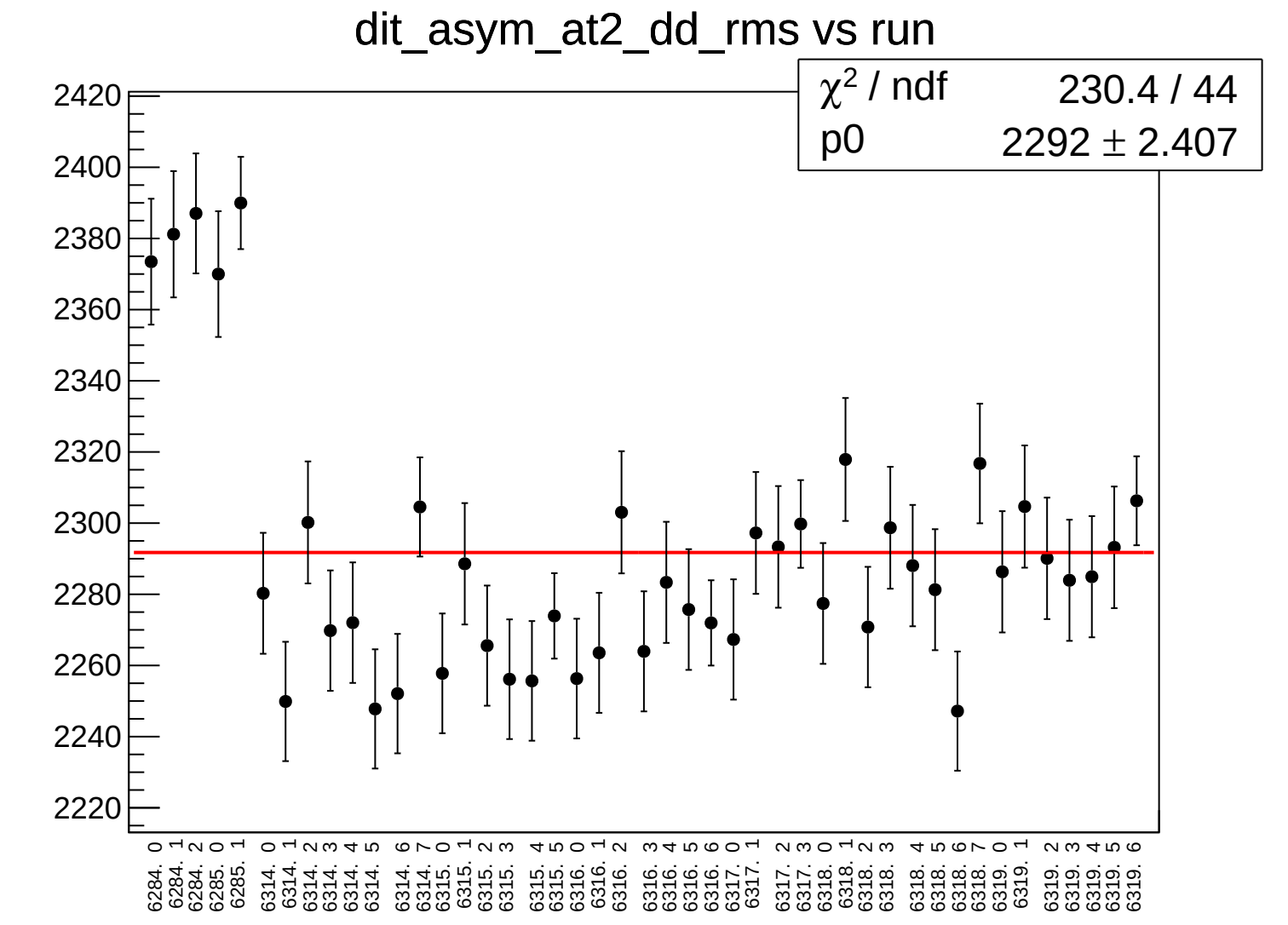
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_dd_rms vs run
χ² / ndf 230.4 / 44
p0 2292 ± 2.407
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6316. 0
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6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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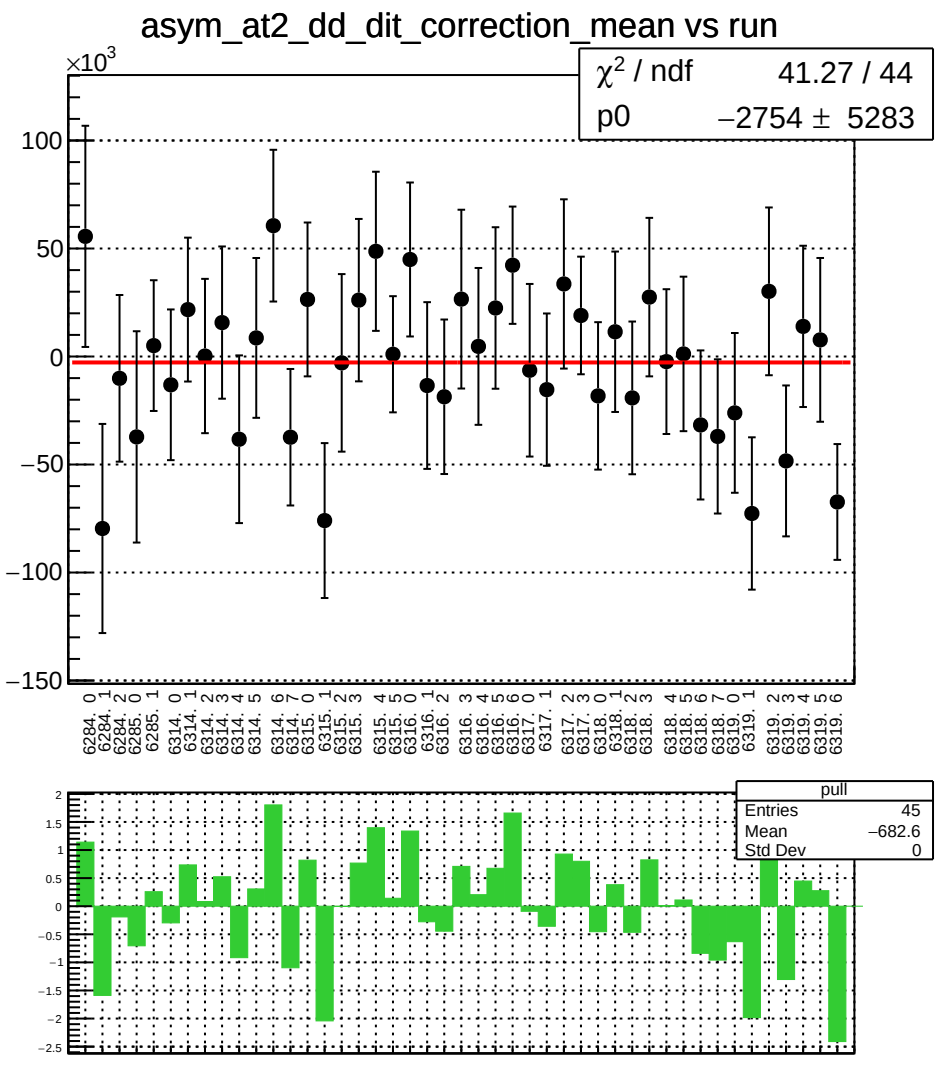
asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.27 / 44
p0 −2754 ± 5283
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
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6314. 5
6314. 6
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −682.6
Std Dev 0
2
1.5
1
0.5
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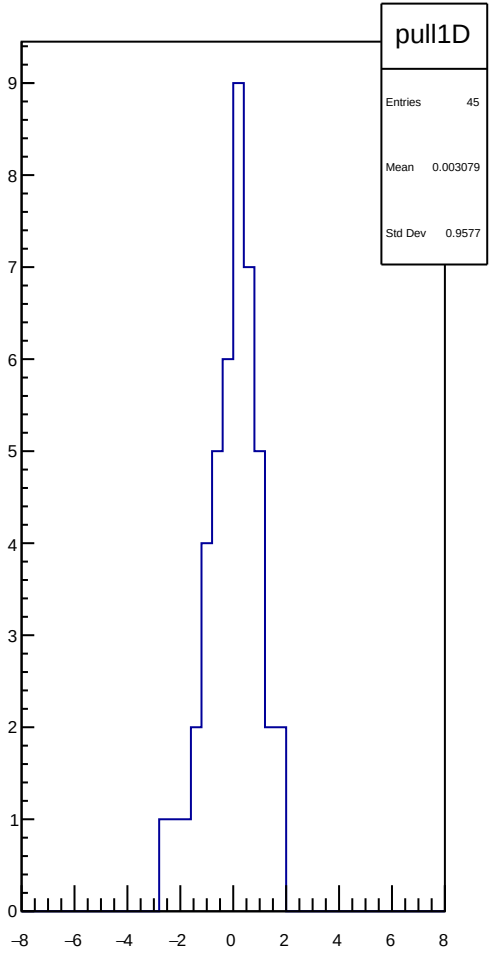
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.003079
Std Dev 0.9577
9
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5
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3
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−4
−2
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2
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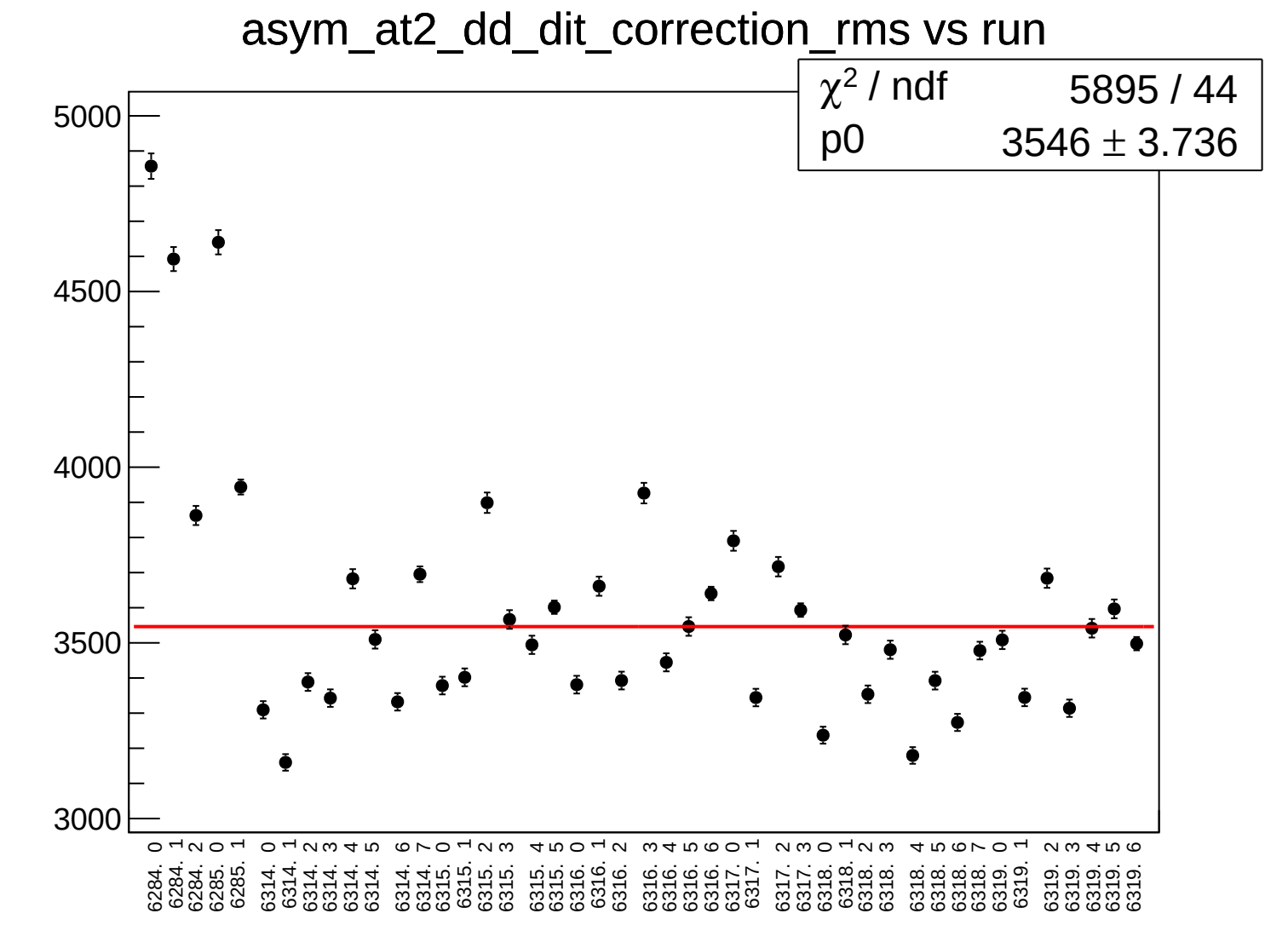
6
8


asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5895 / 44
p0 3546 ± 3.736
5000
4500
4000
3500
3000
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6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 5
6314. 6
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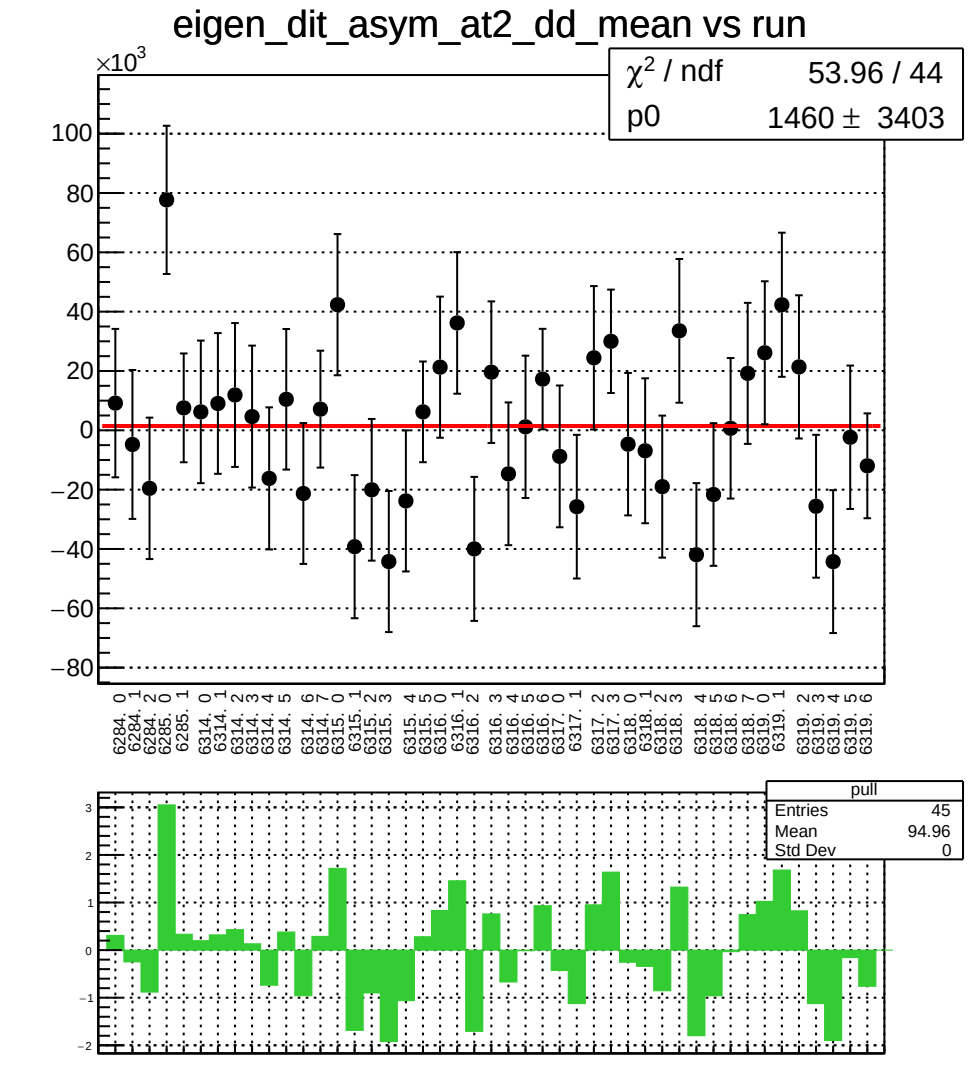
eigen_dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 53.96 / 44
p0 1460 ± 3403
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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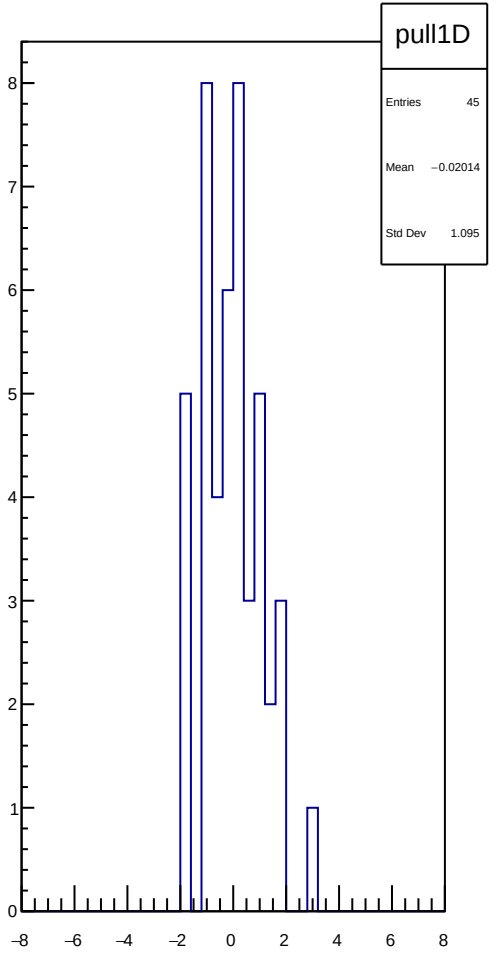
pull
Entries 45
Mean 94.96
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02014
Std Dev 1.095
8
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5
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1
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−8
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−4
−2
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2
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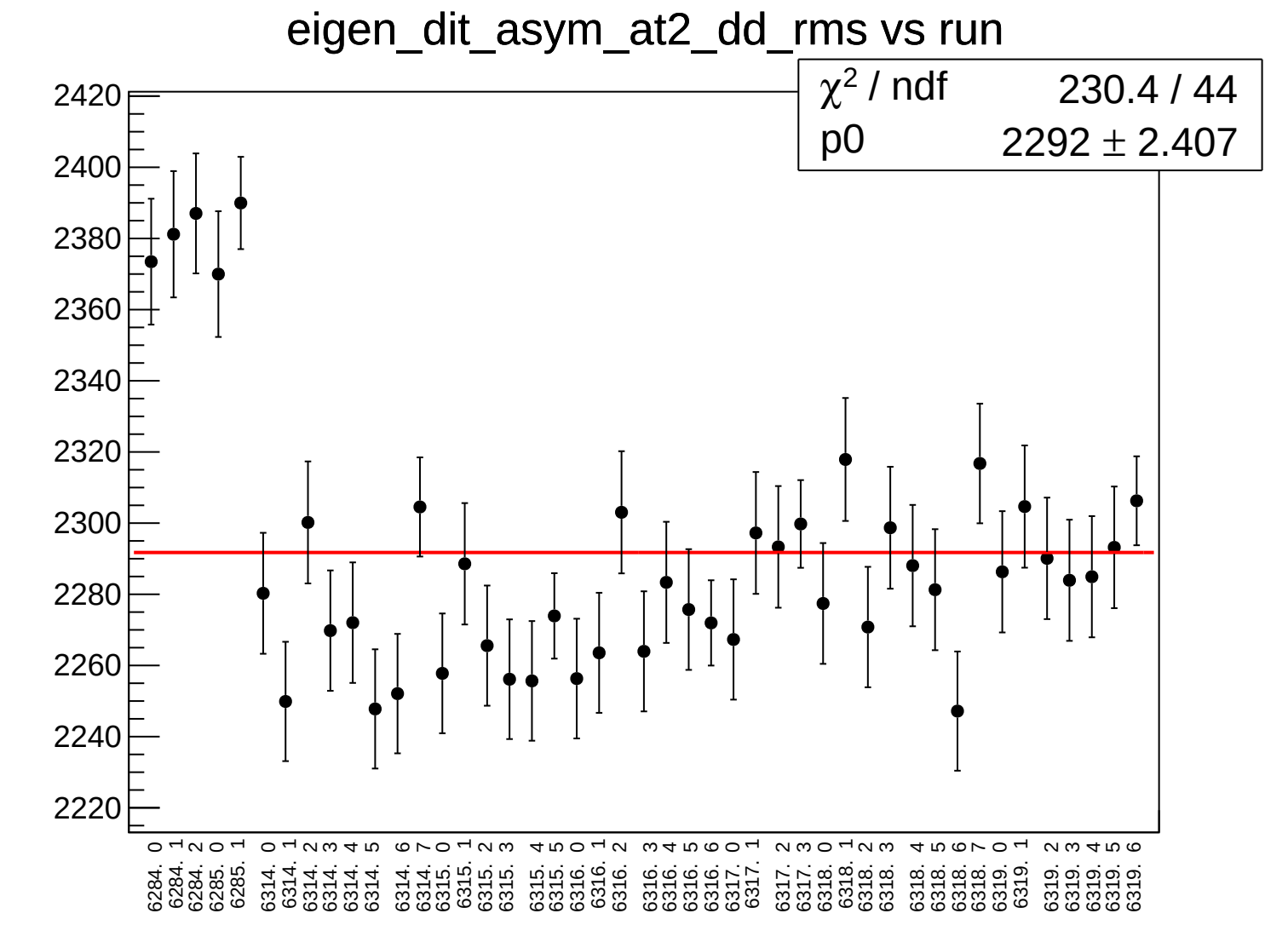
eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 230.4 / 44
p0 2292 ± 2.407
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 6
6314. 7
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6315. 1
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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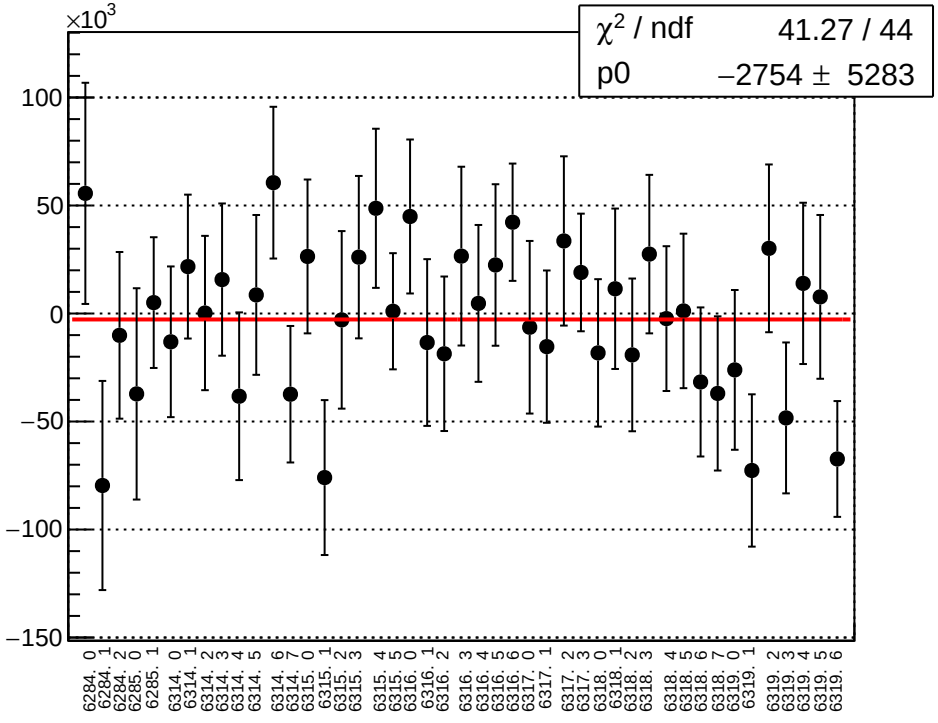
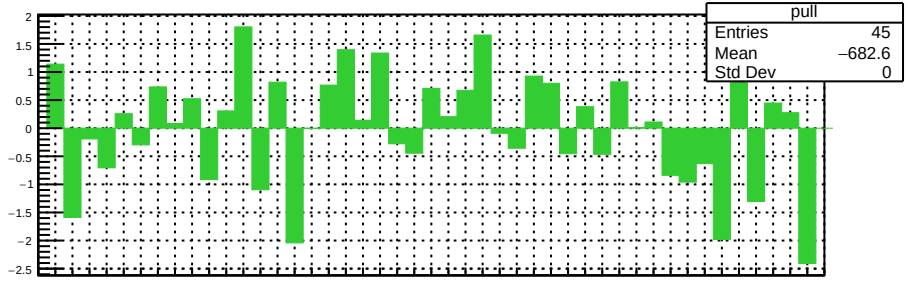
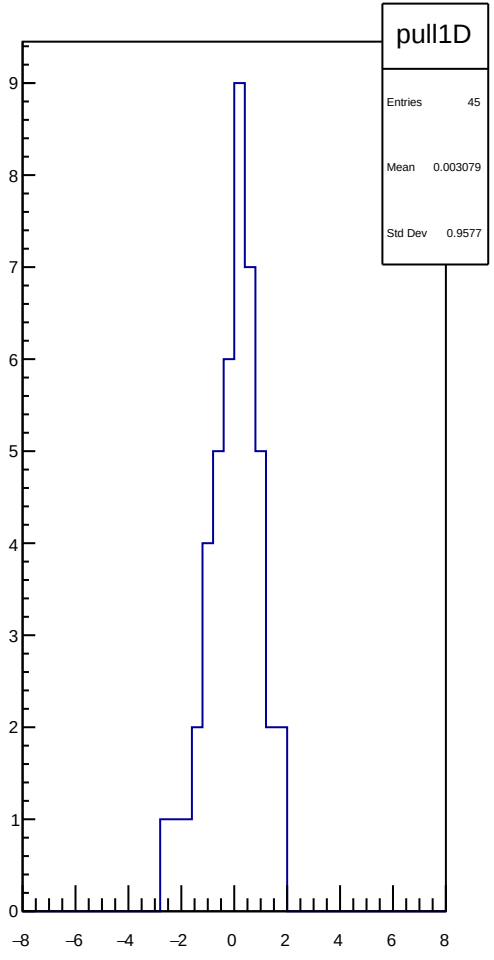
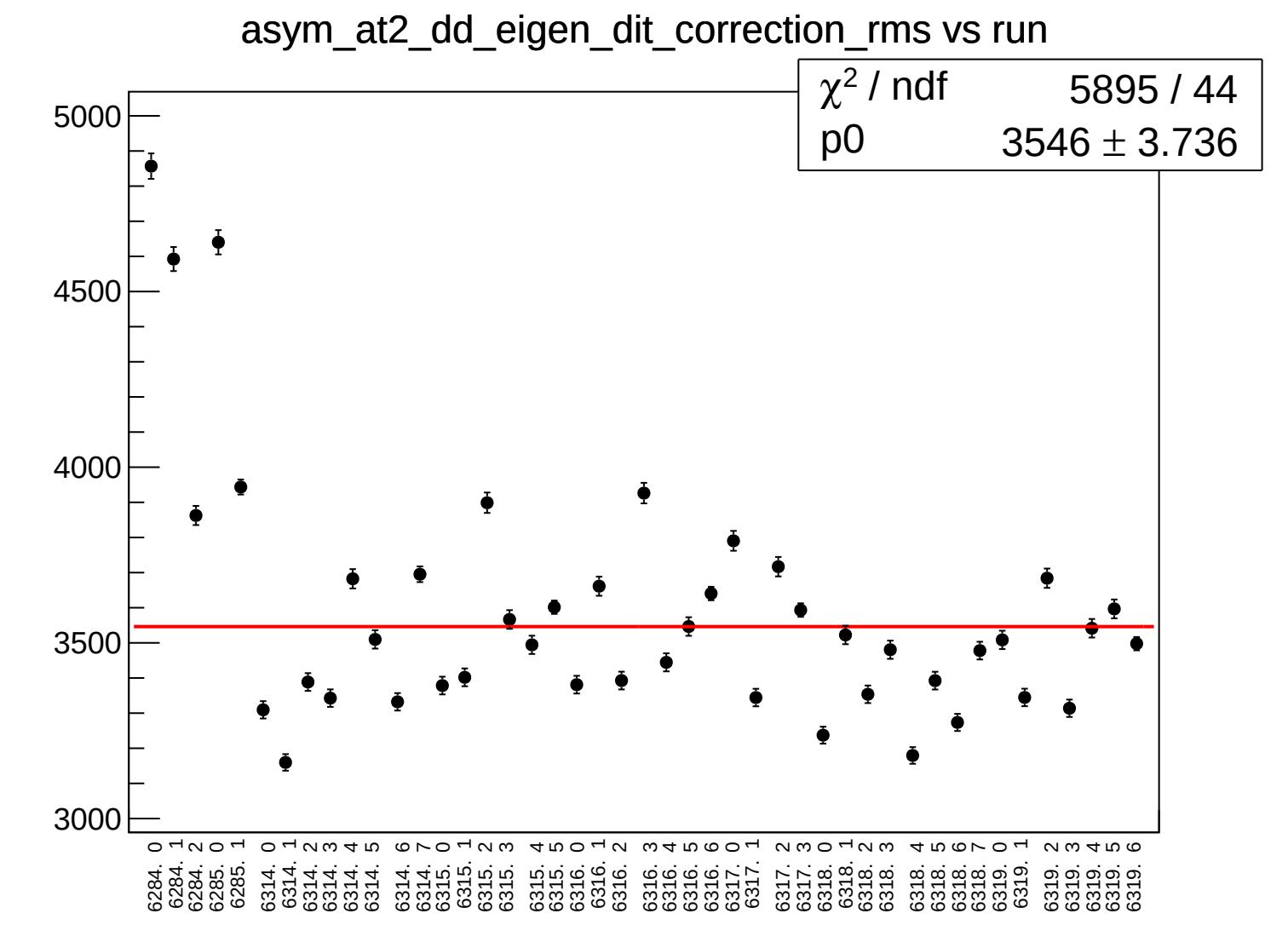
6319. 6

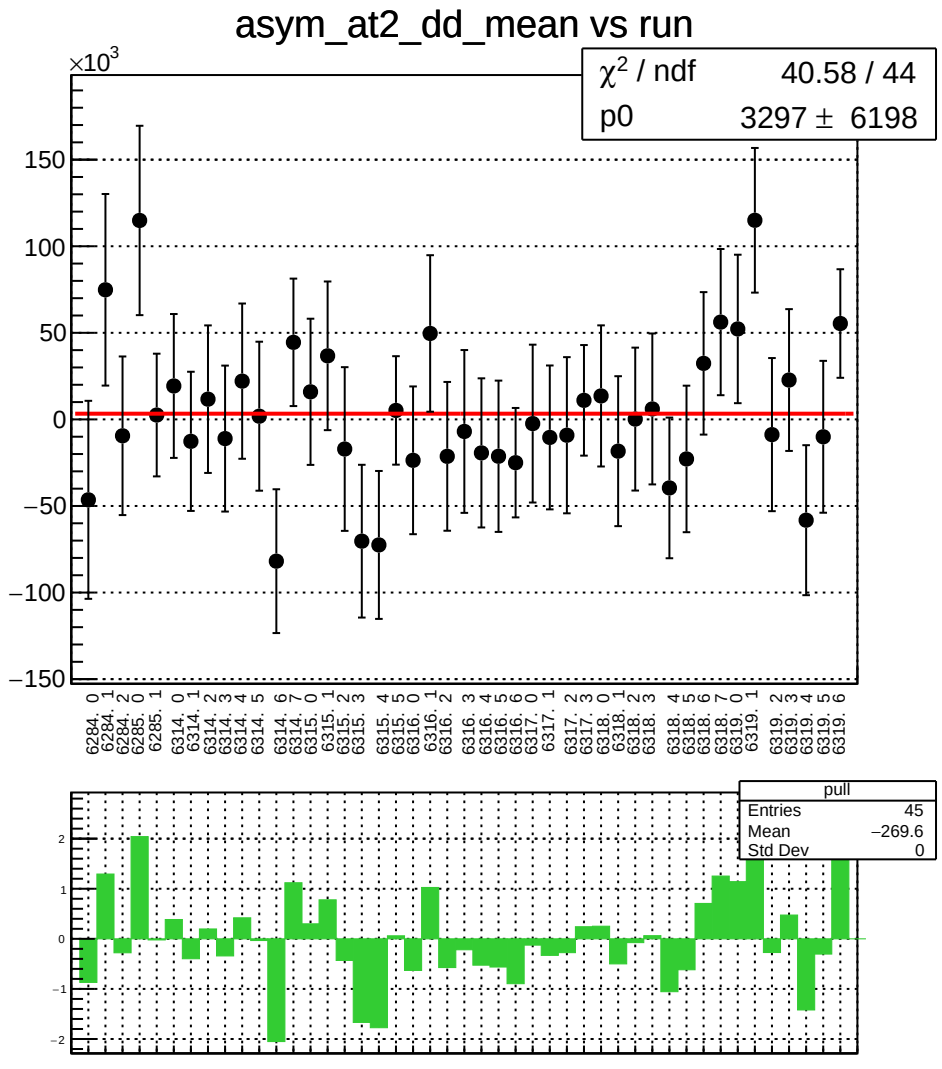
asym_at2_dd_eigen_dit_correction_mean vs run

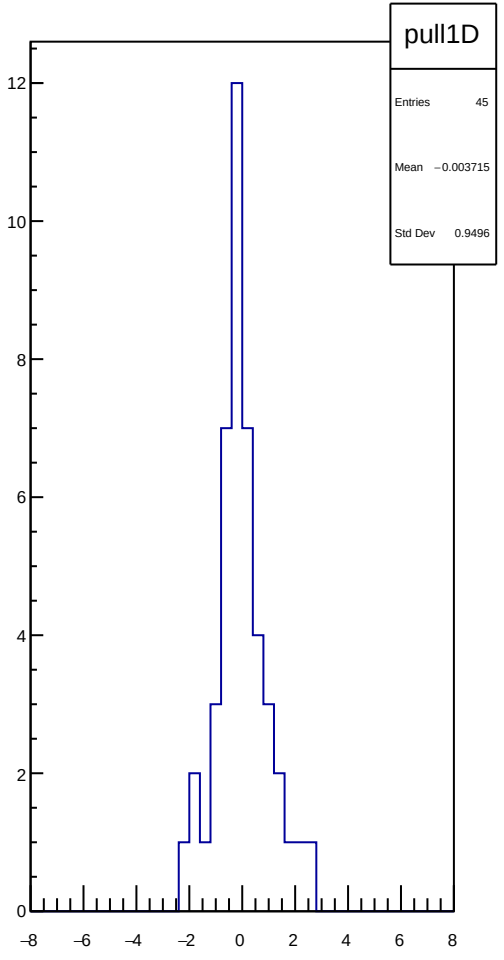


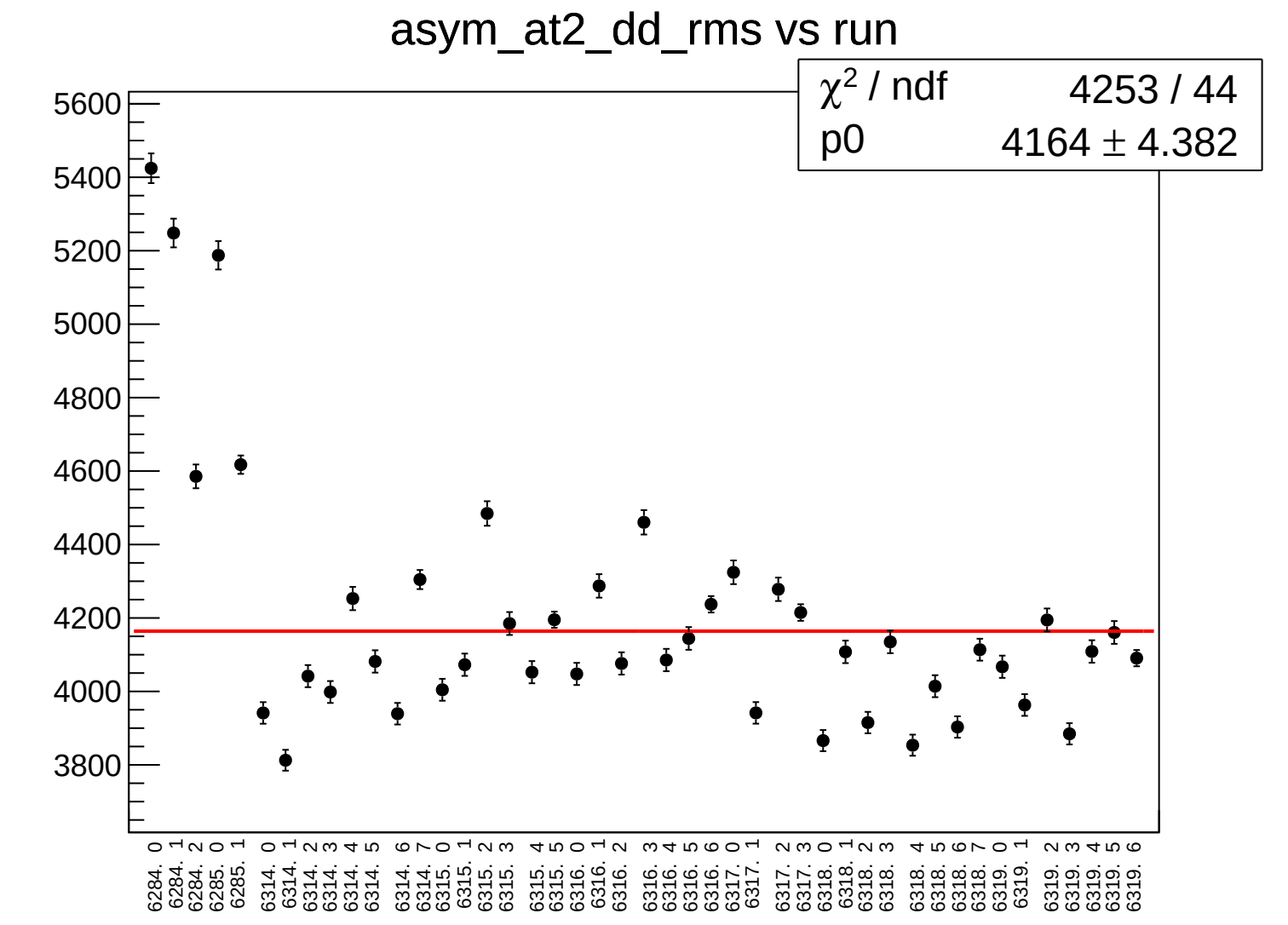


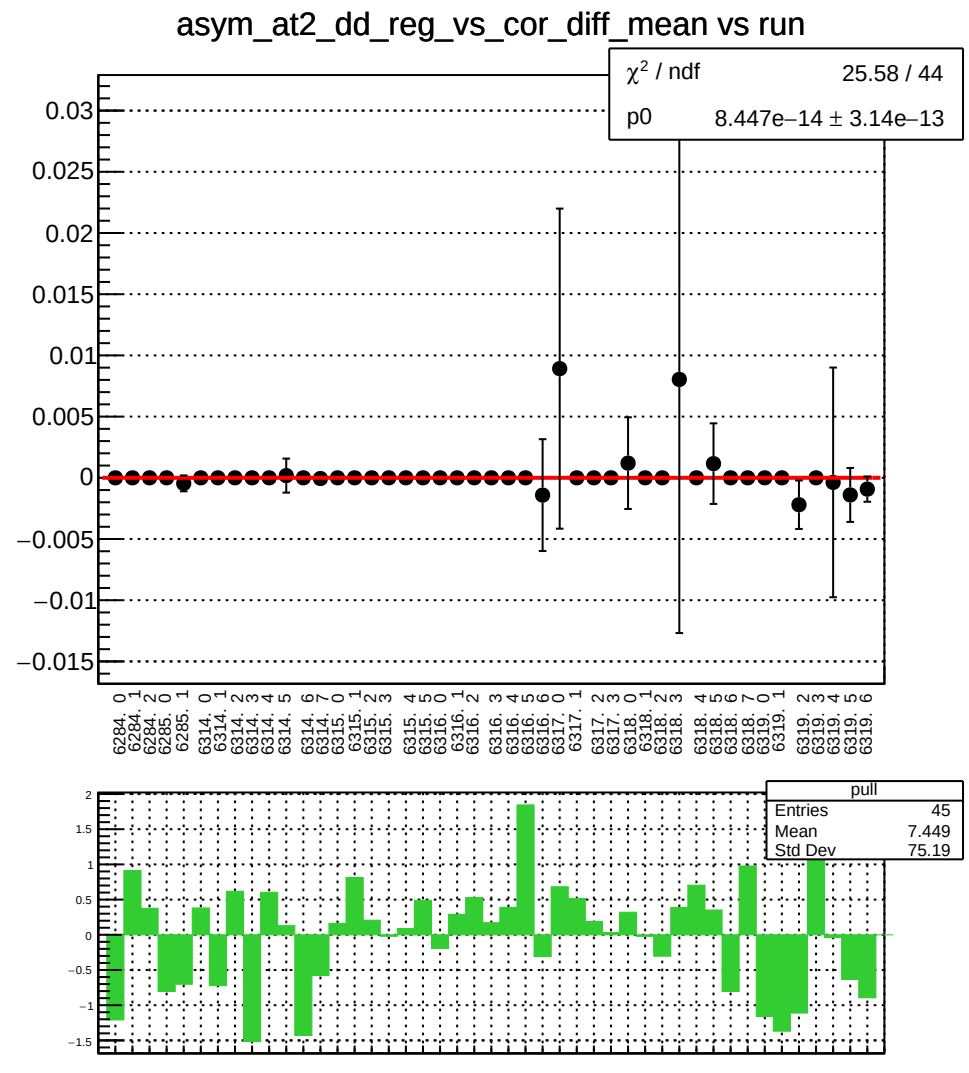


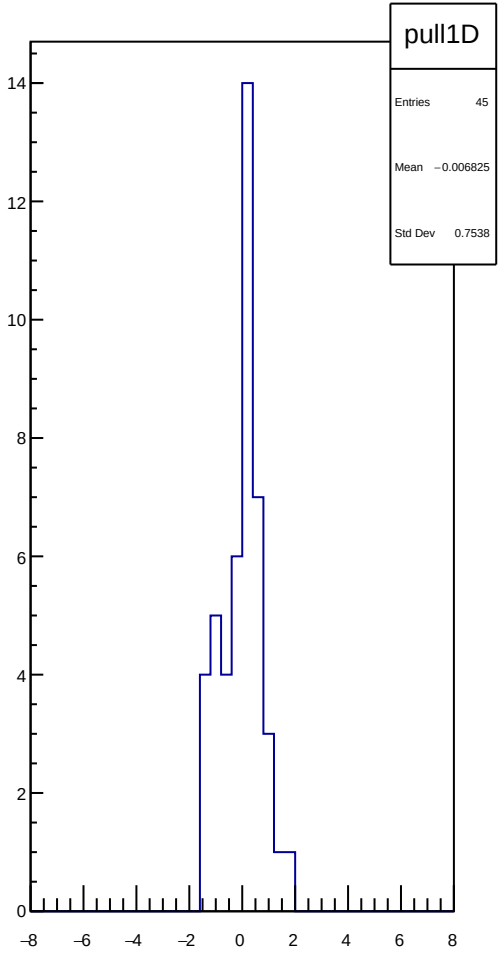

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5895 / 44
p0 3546 ± 3.736
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

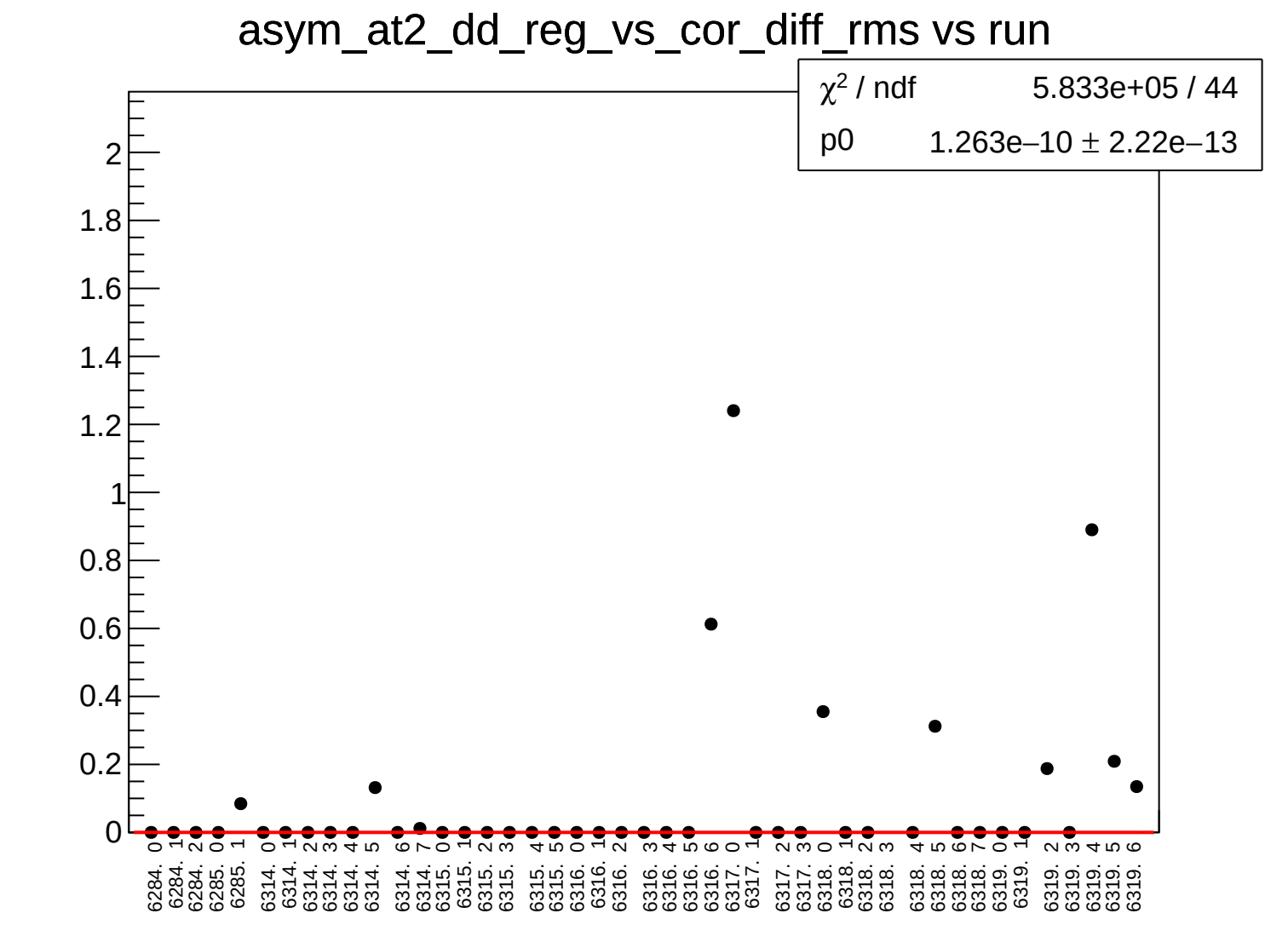

asym_at2_dd_mean vs run
×10^3
χ² / ndf 40.58 / 44
p0 3297 ± 6198
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −269.6
Std Dev 0
2
1
0
−1
−2

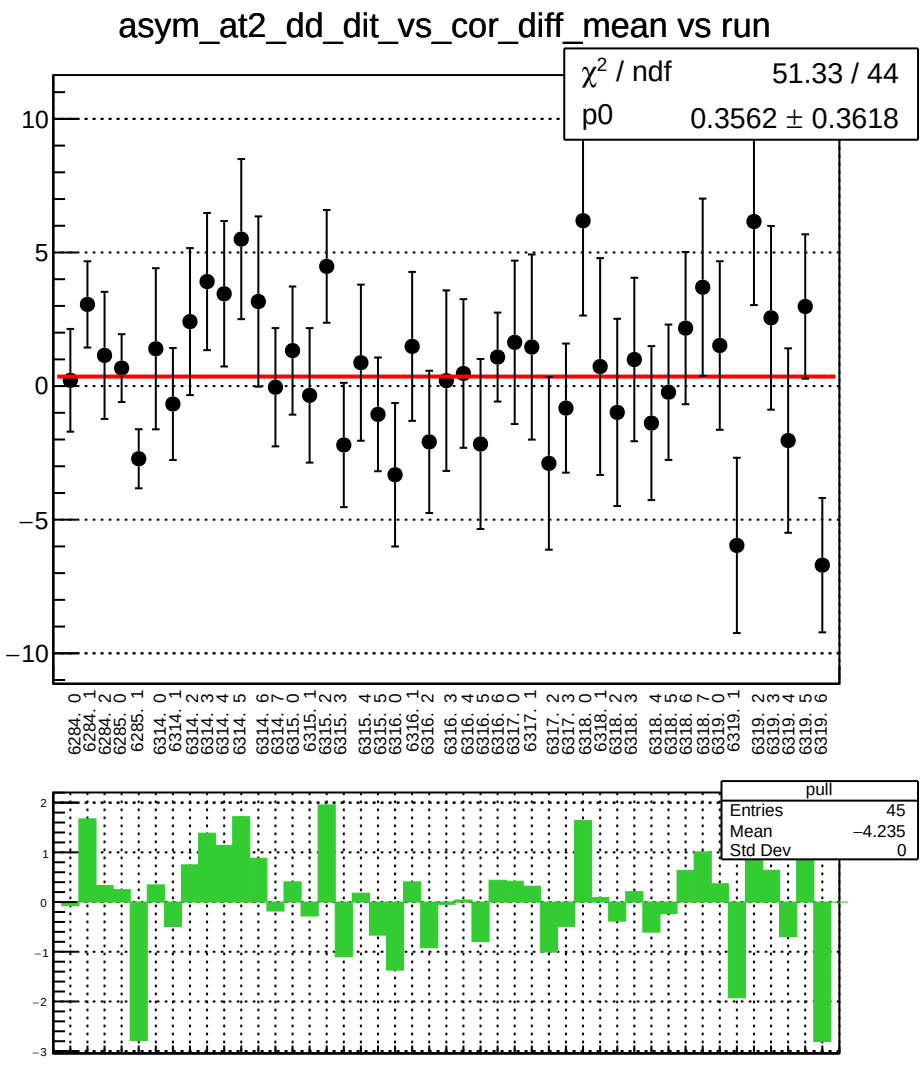

pull1D
Entries 45
Mean −0.003715
Std Dev 0.9496
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

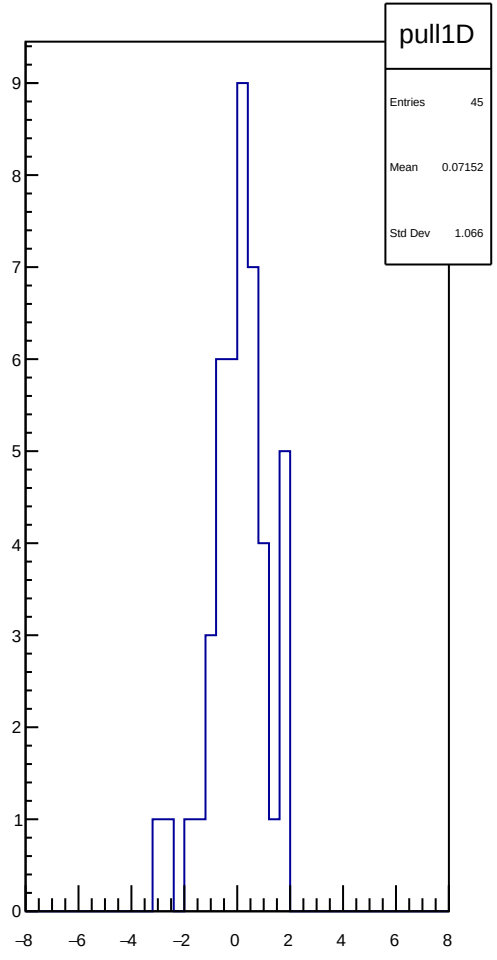

asym_at2_dd_rms vs run
χ² / ndf 4253 / 44
p0 4164 ± 4.382
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

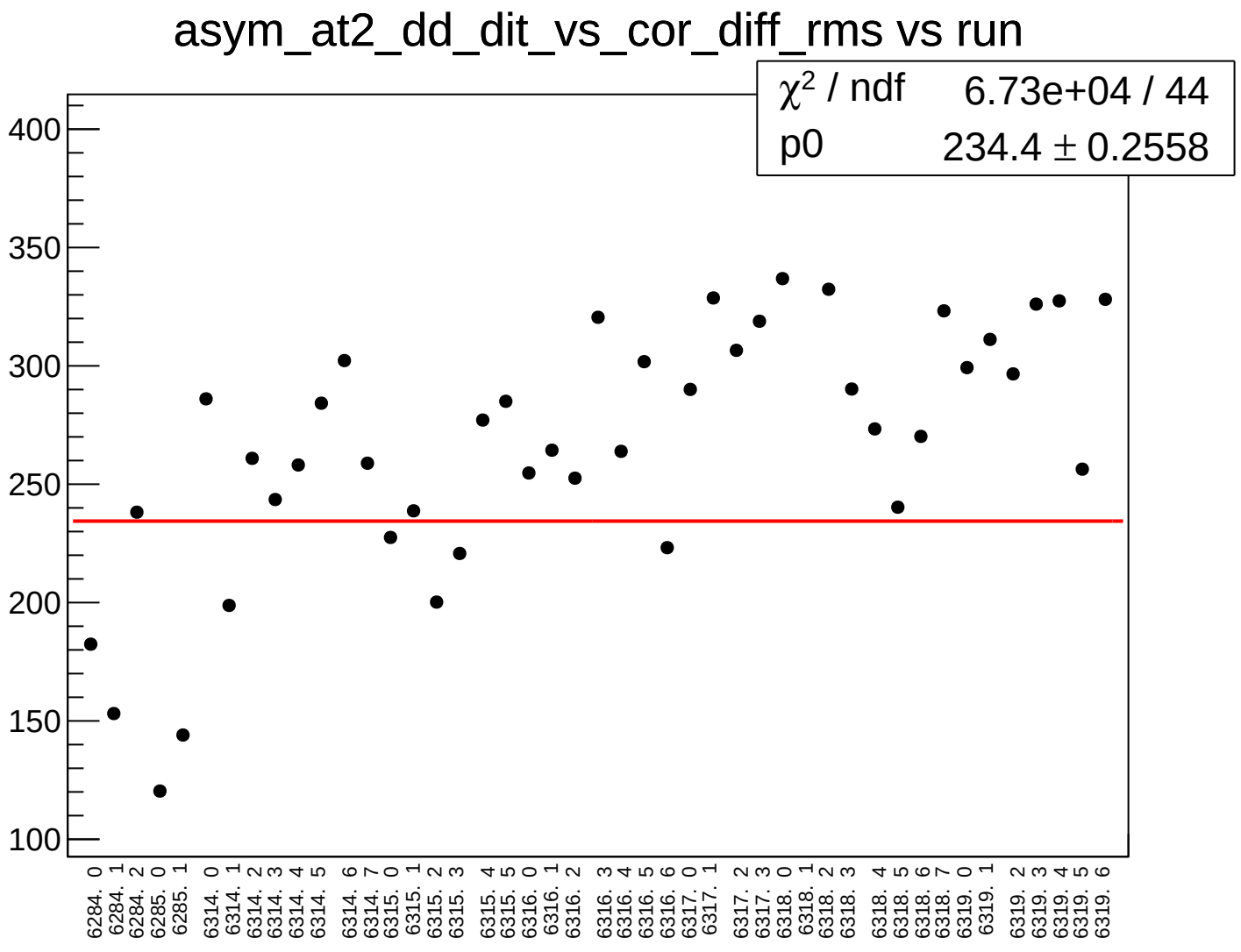

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.58 / 44
p0 8.447e−14 ± 3.14e−13
pull
Entries 45
Mean 7.449
Std Dev 75.19

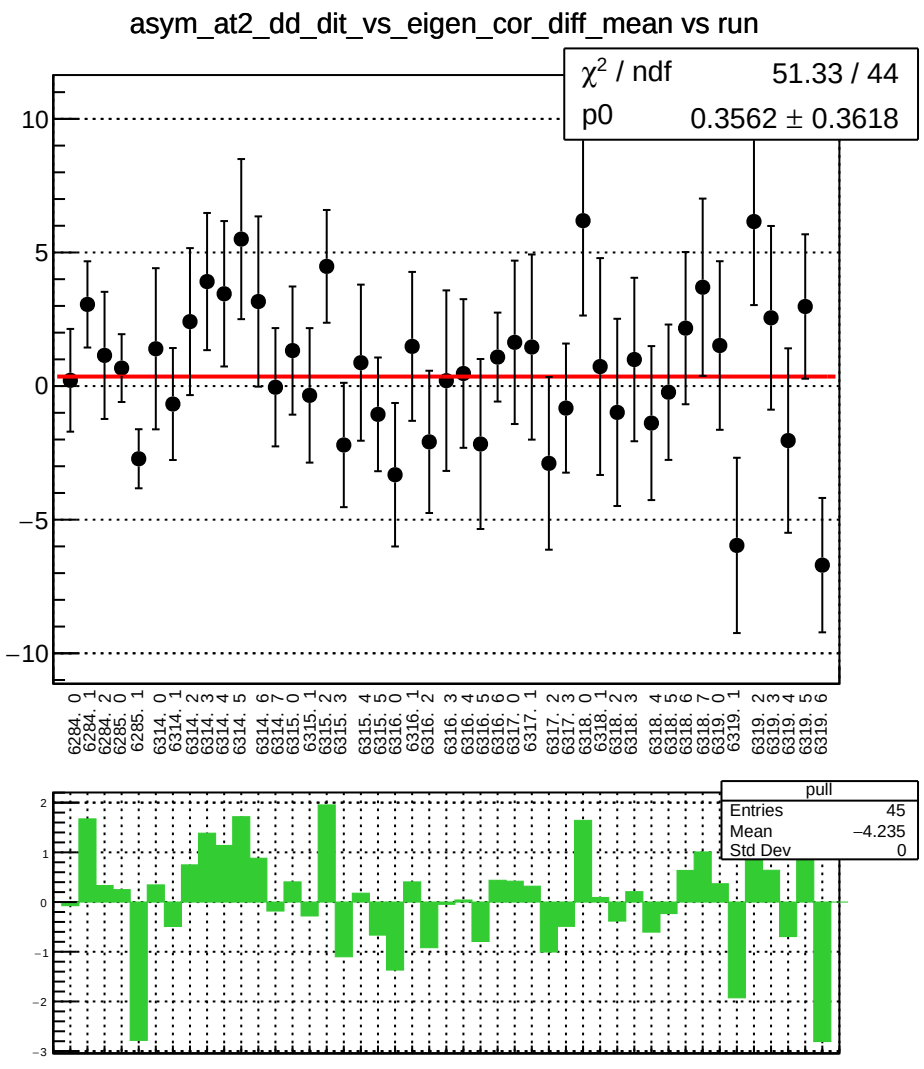

pull1D
Entries 45
Mean −0.006825
Std Dev 0.7538

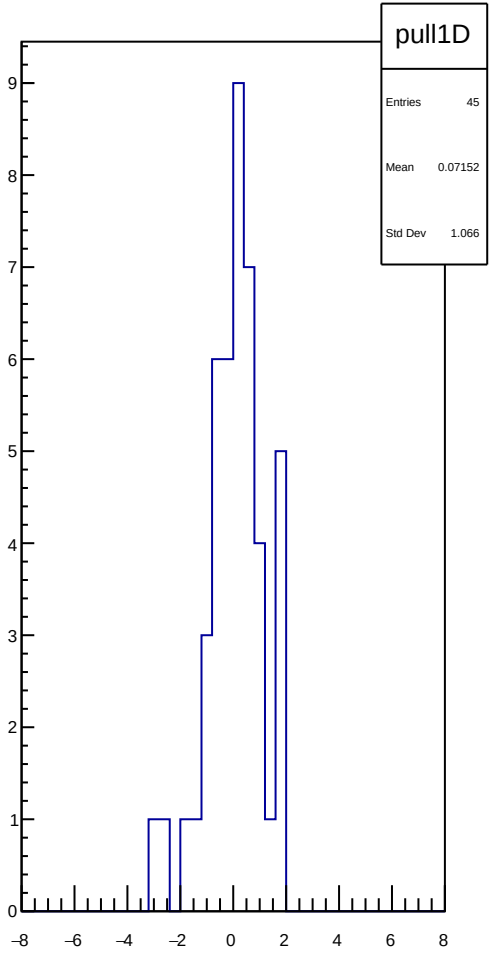

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.833e+05 / 44
p0 1.263e−10 ± 2.22e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

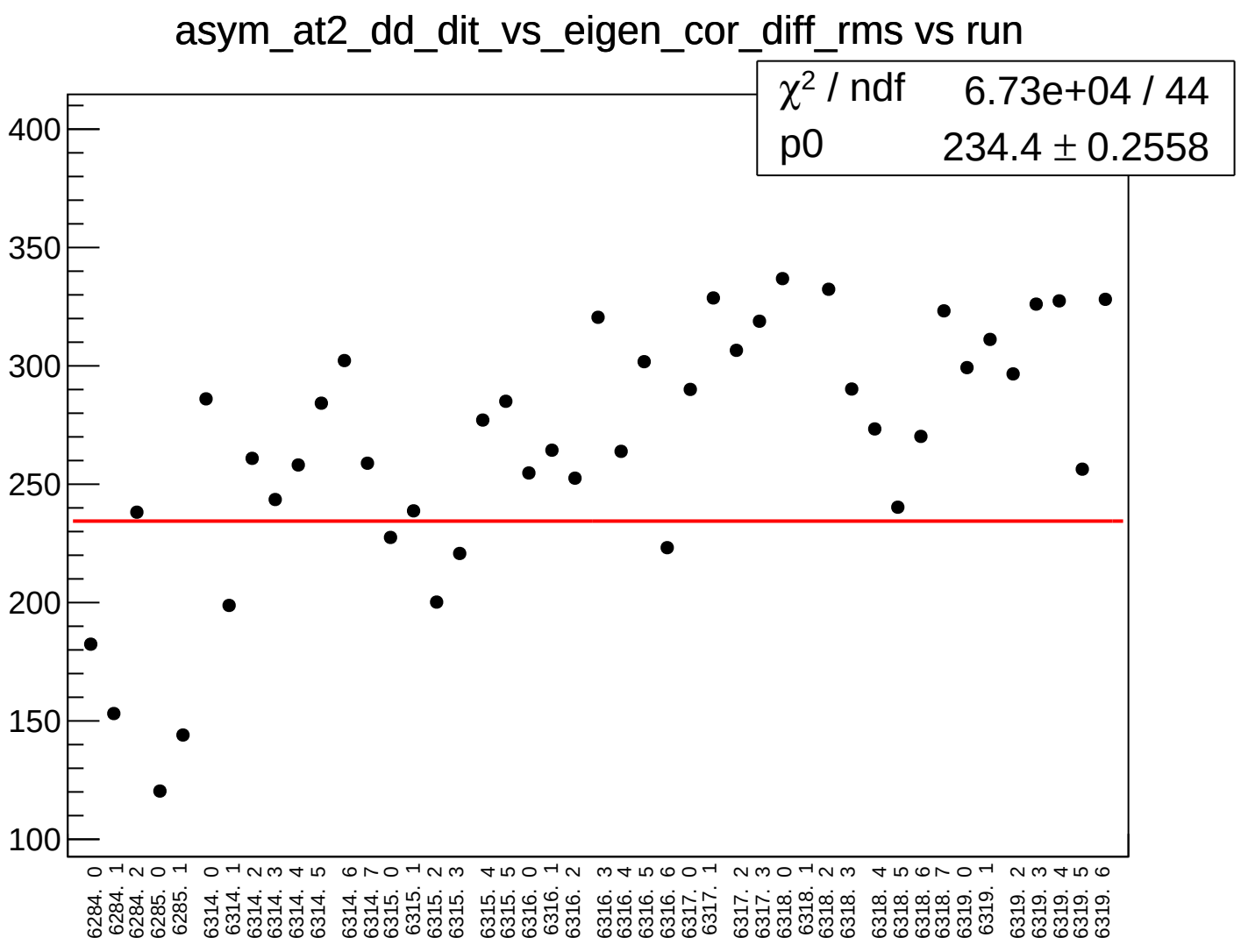

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.33 / 44
p0 0.3562 ± 0.3618
pull
Entries 45
Mean −4.235
Std Dev 0

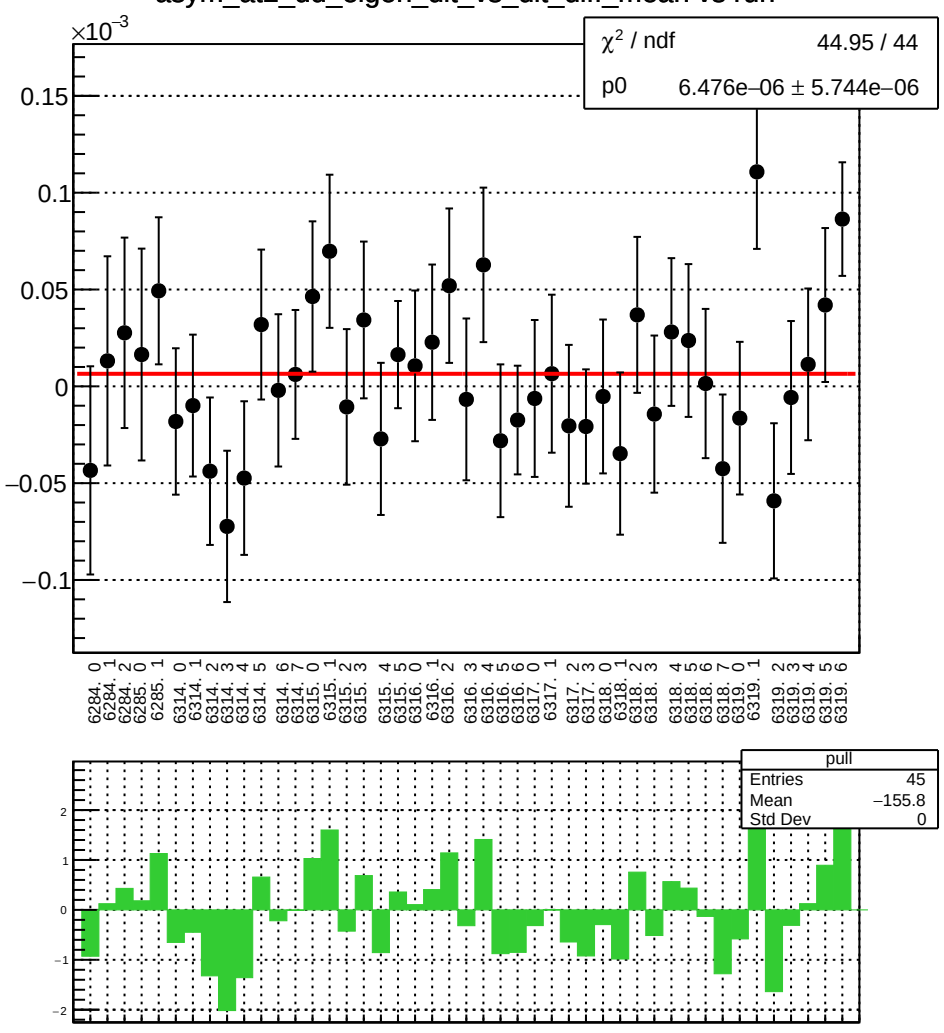

pull1D
Entries 45
Mean 0.07152
Std Dev 1.066

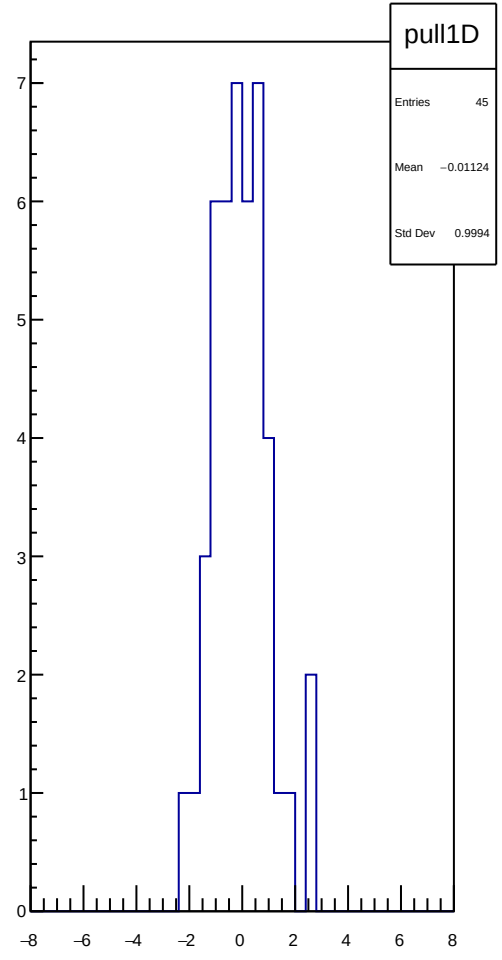

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.73e+04 / 44
p0 234.4 ± 0.2558
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

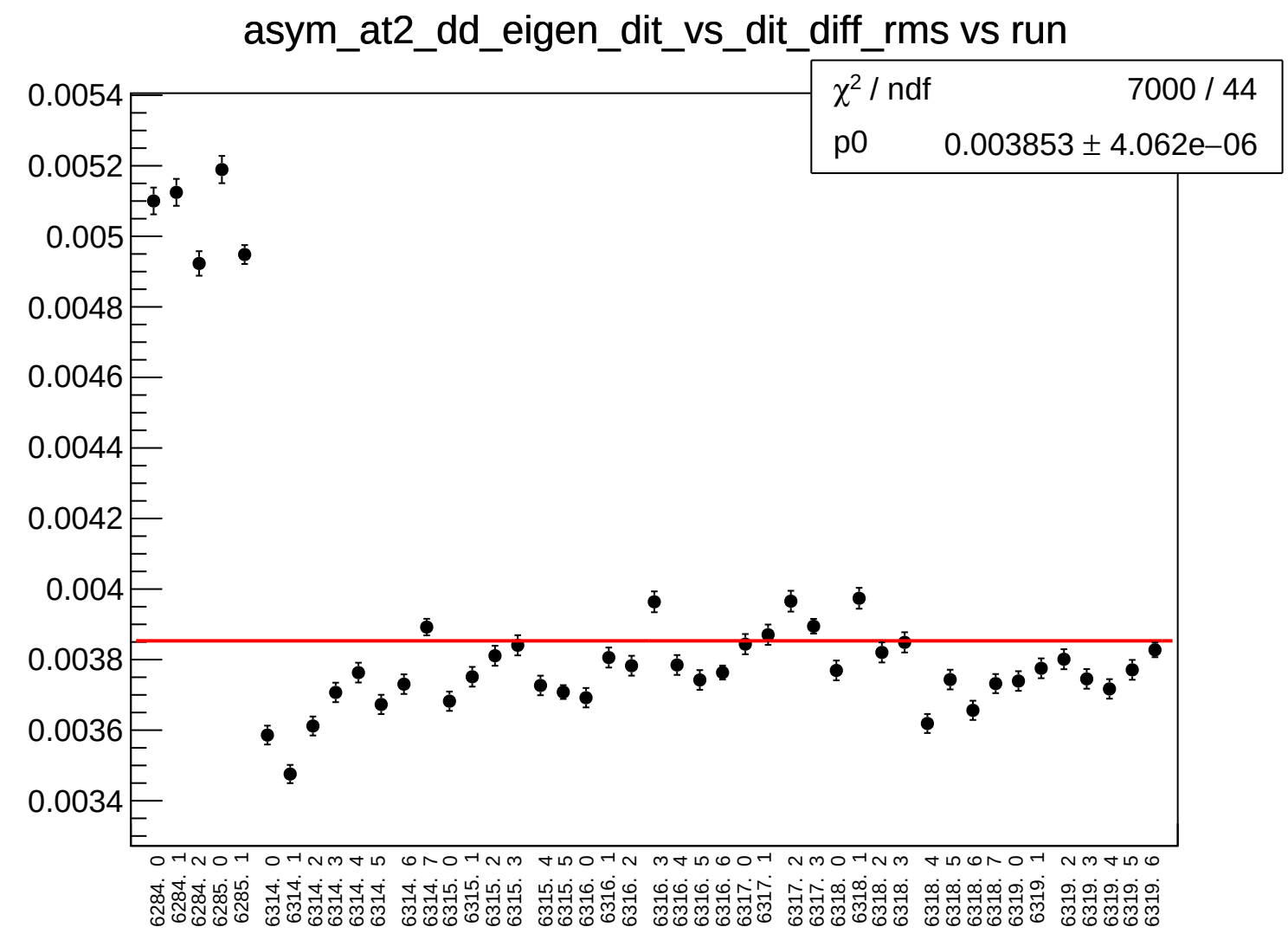

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.33 / 44
p0 0.3562 ± 0.3618
pull
Entries 45
Mean −4.235
Std Dev 0

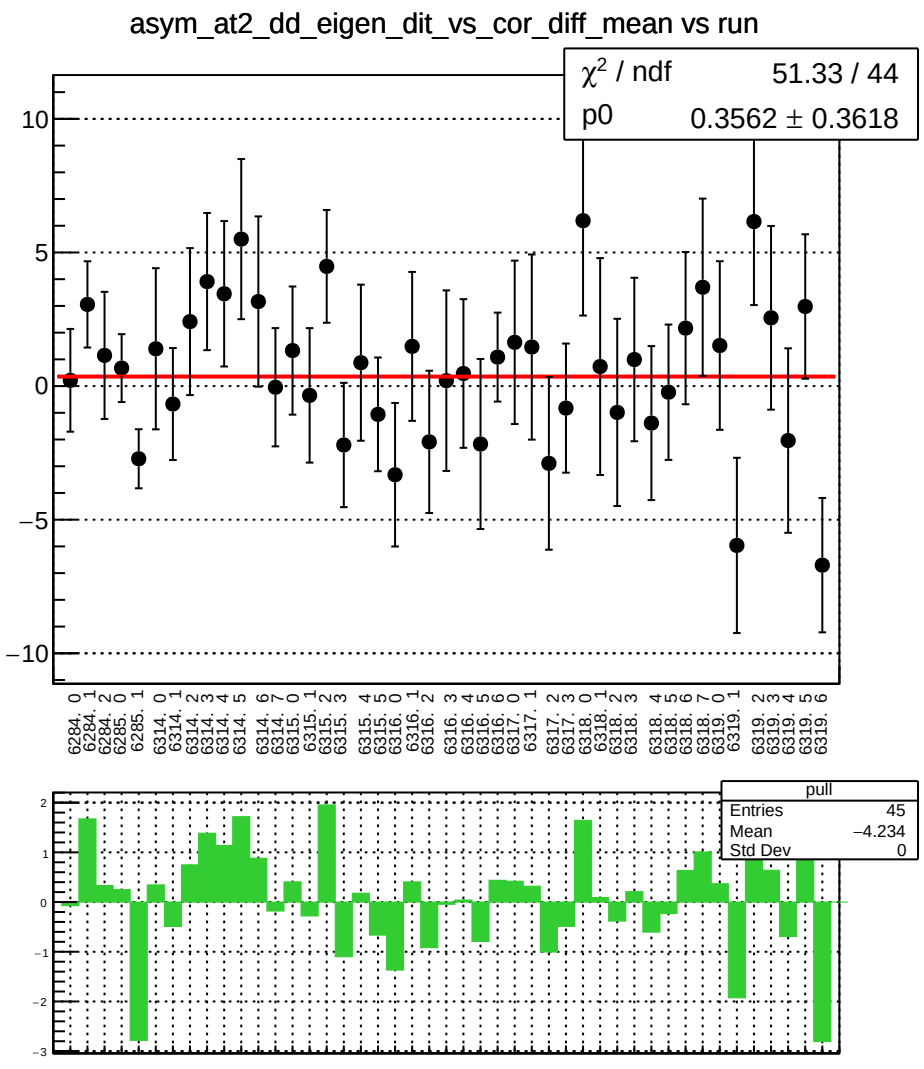

pull1D
Entries 45
Mean 0.07152
Std Dev 1.066

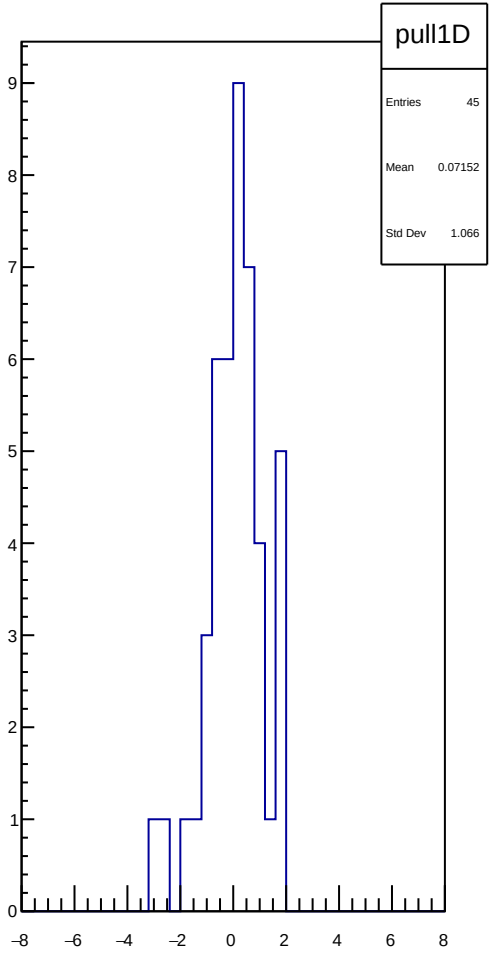

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.73e+04 / 44
p0 234.4 ± 0.2558
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

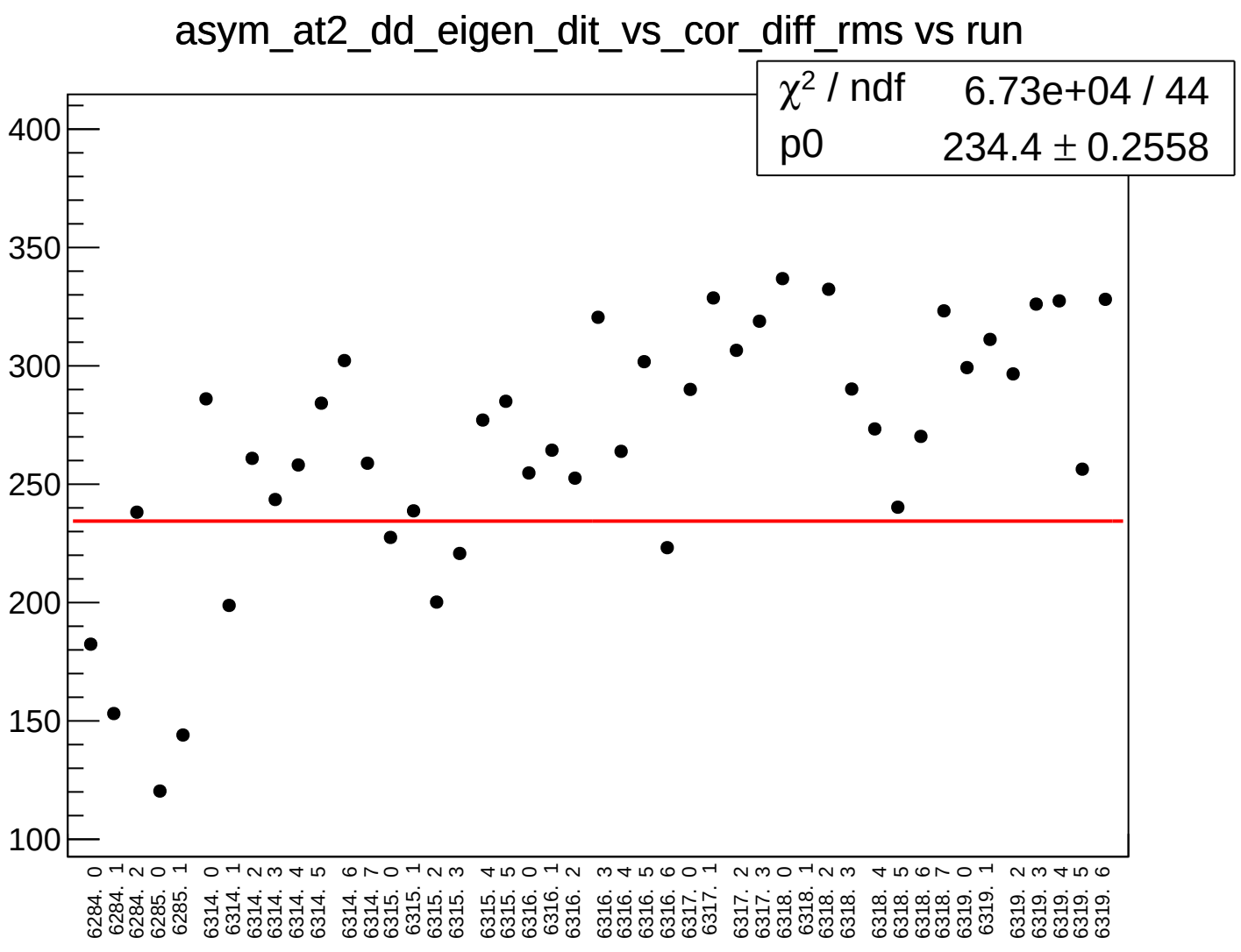

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.95 / 44
p0 6.476e−06 ± 5.744e−06
0.15
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −155.8
Std Dev 0
2
1
0
−1
−2

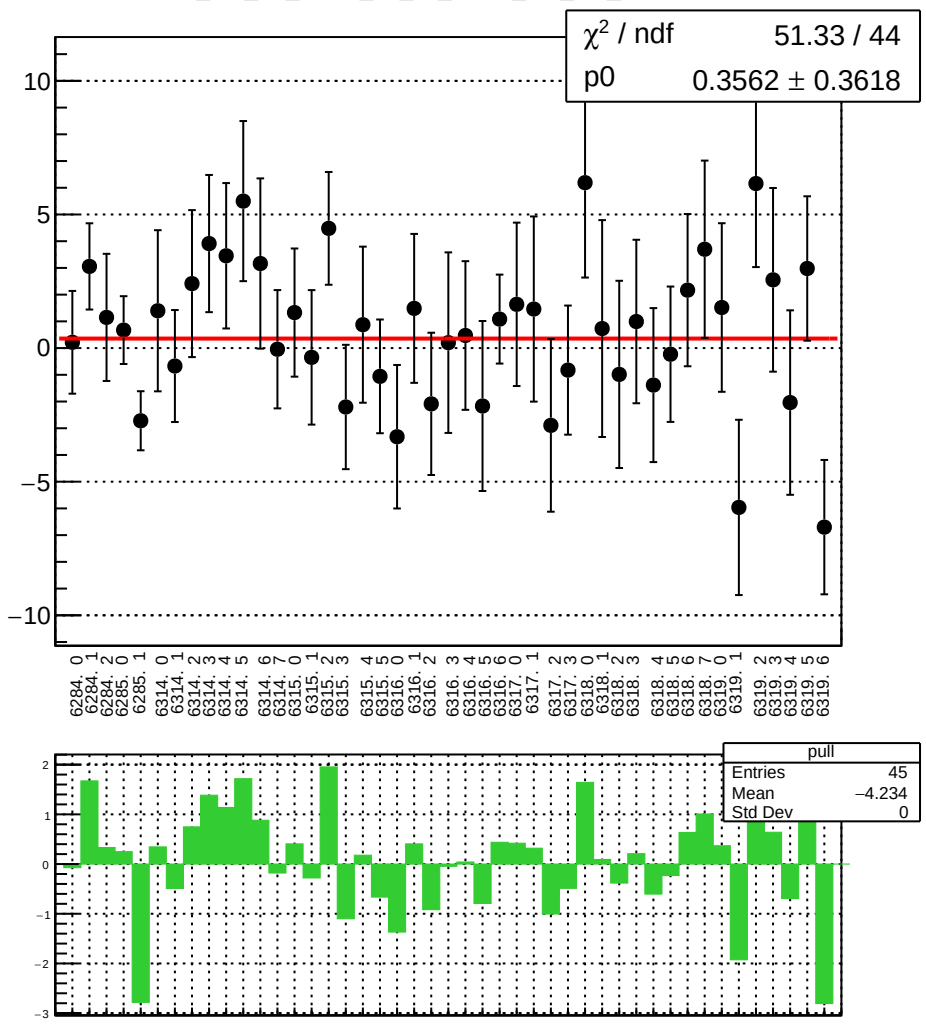

pull1D
Entries 45
Mean −0.01124
Std Dev 0.9994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

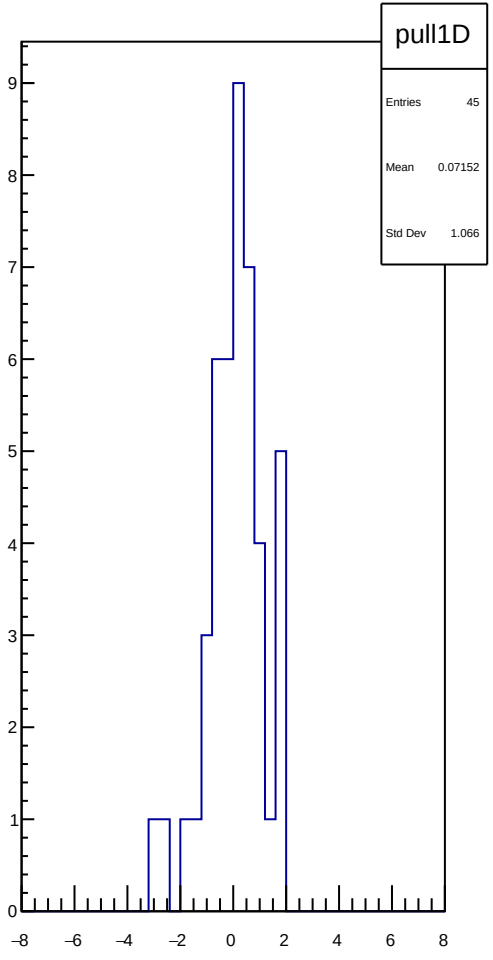

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7000 / 44
p0 0.003853 ± 4.062e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

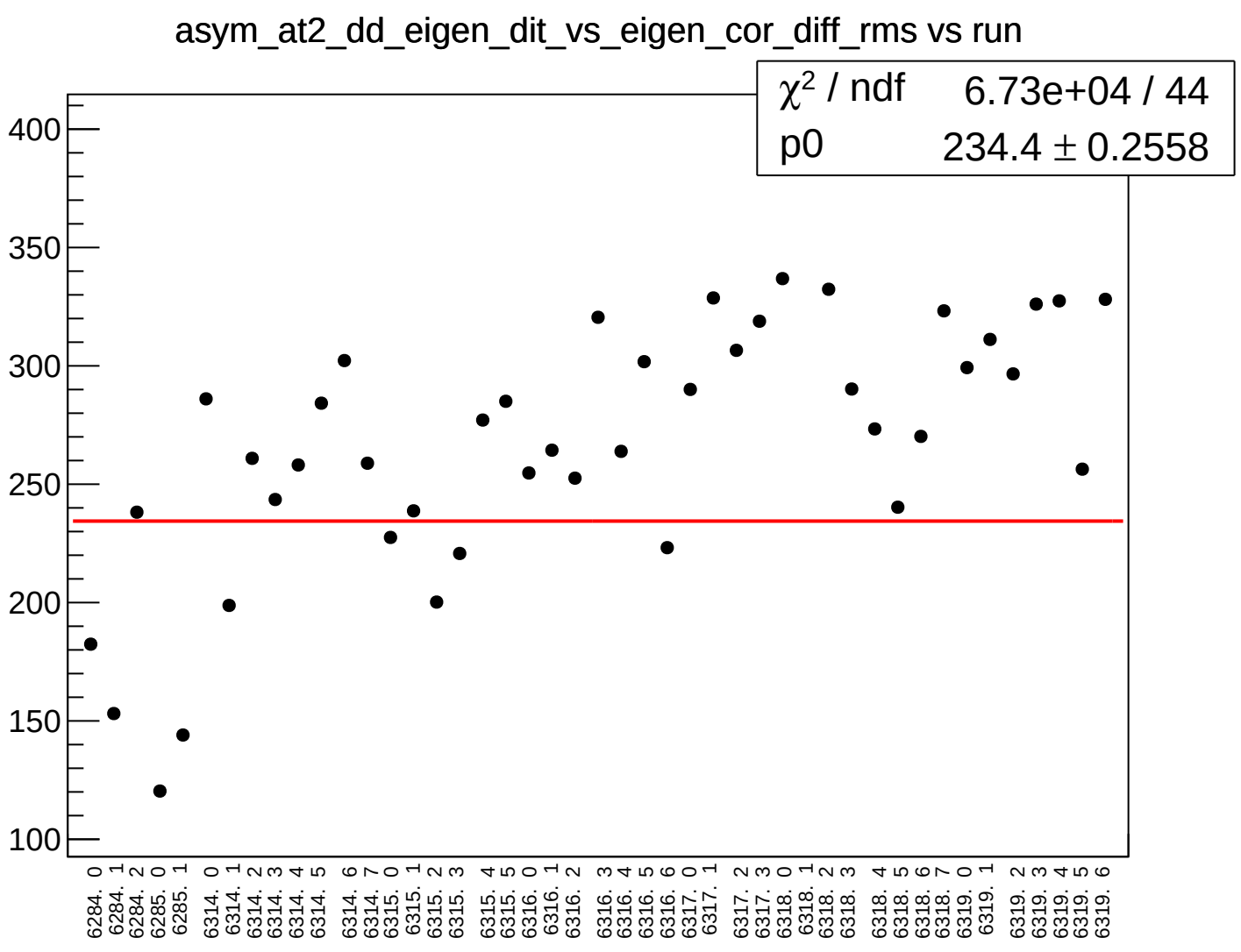

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.33 / 44
p0 0.3562 ± 0.3618
pull
Entries 45
Mean −4.234
Std Dev 0

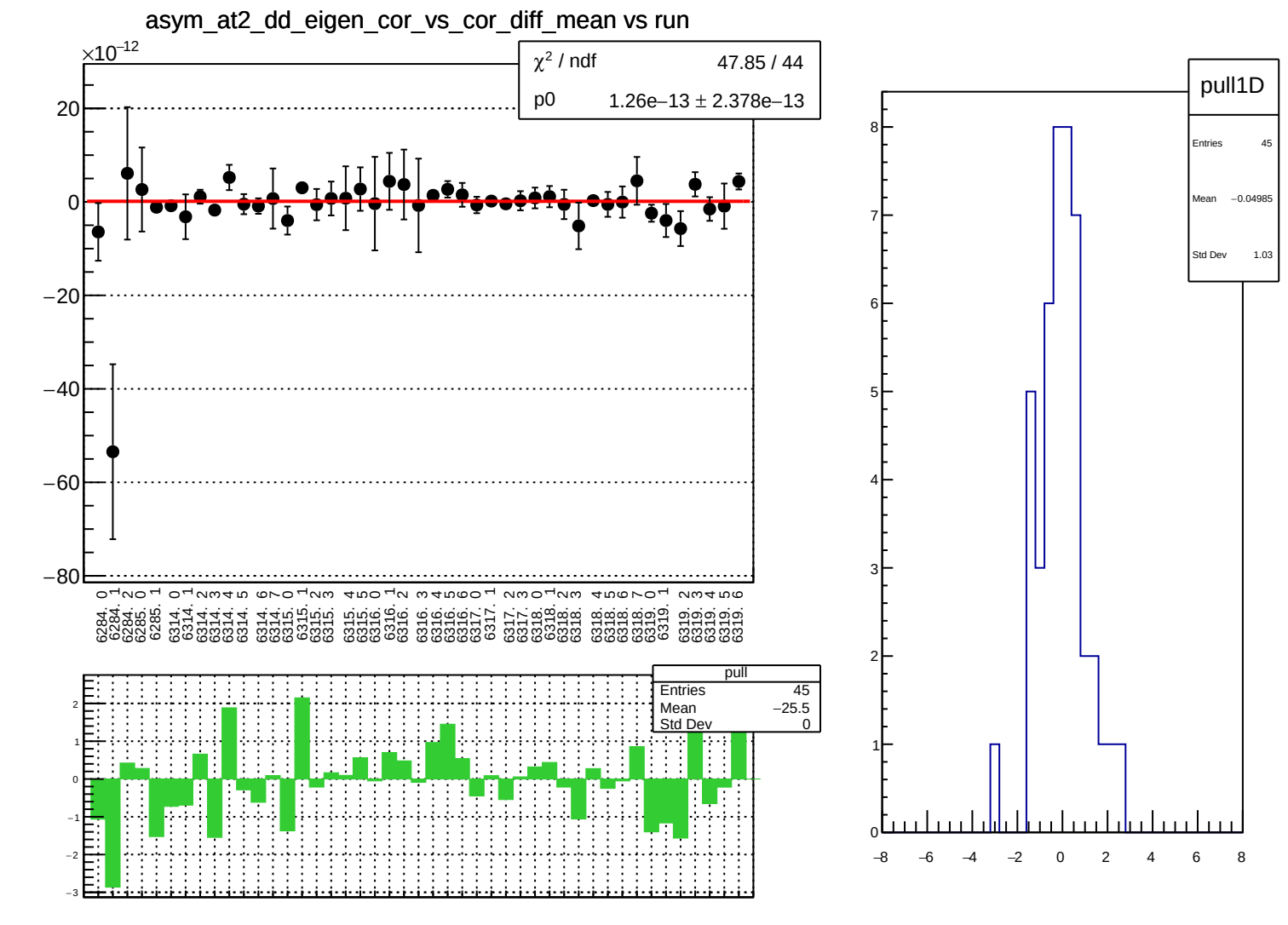

pull1D
Entries 45
Mean 0.07152
Std Dev 1.066

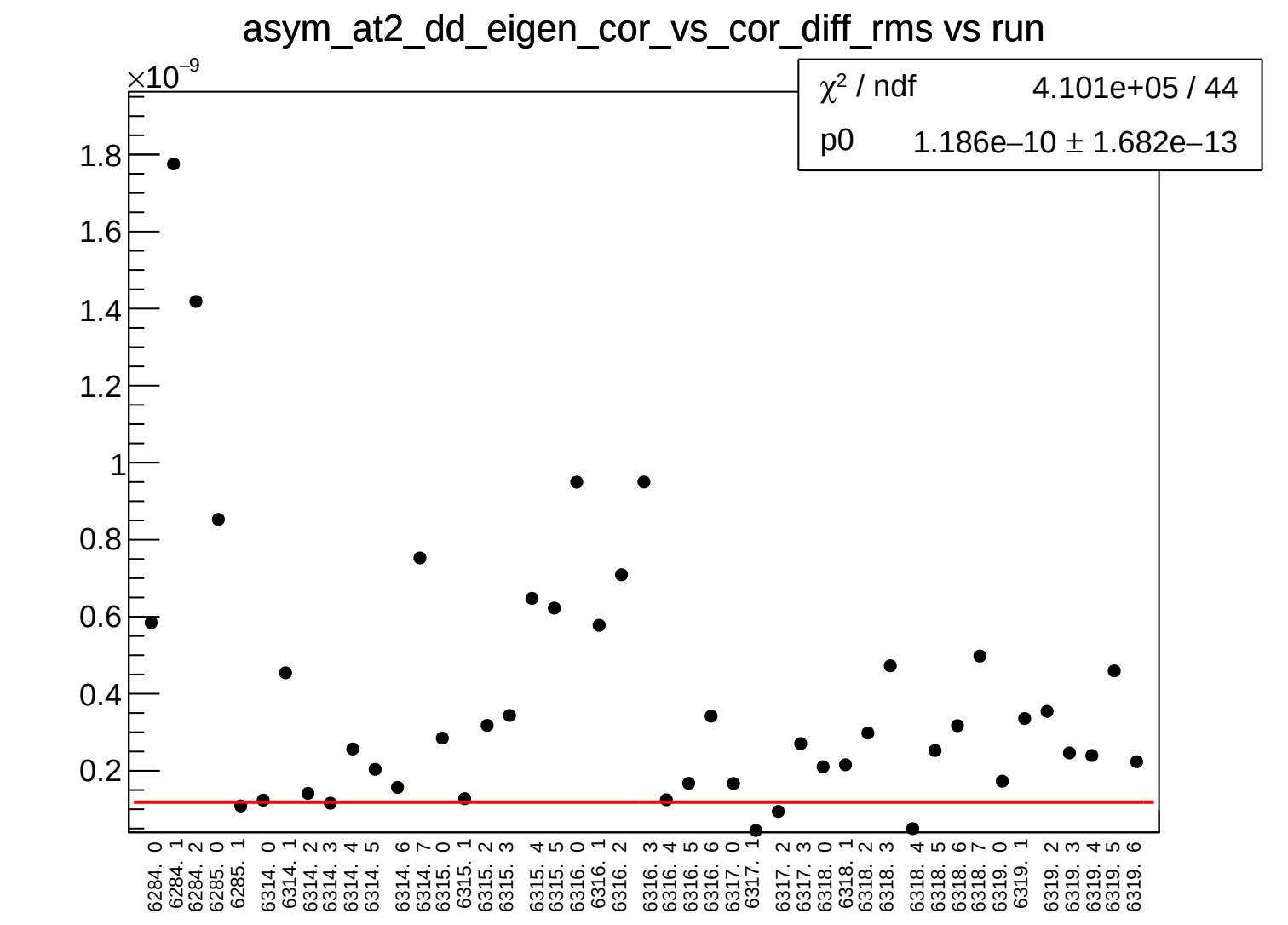

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.73e+04 / 44
p0 234.4 ± 0.2558
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

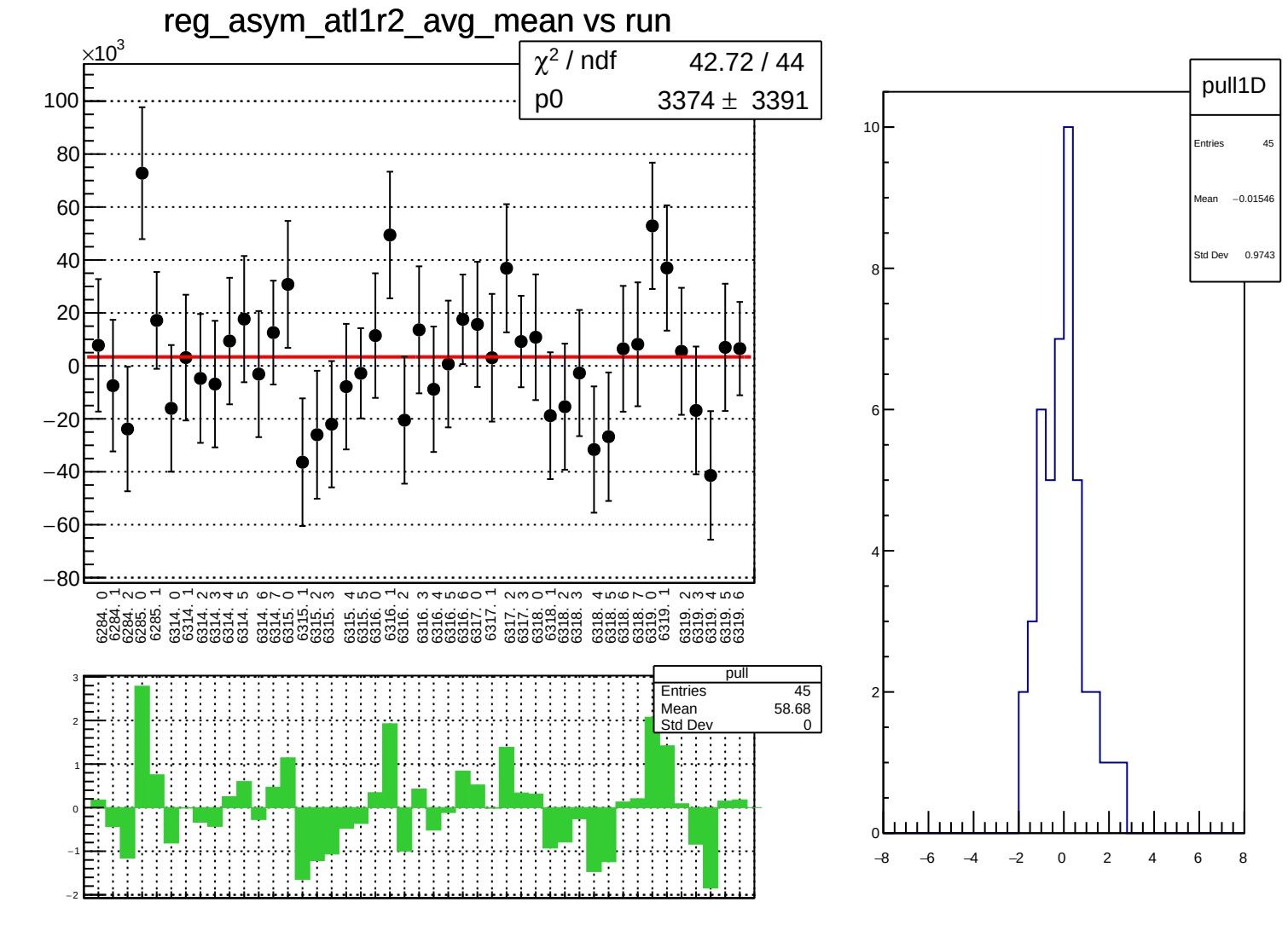

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.33 / 44
p0 0.3562 ± 0.3618
pull
Entries 45
Mean −4.234
Std Dev 0

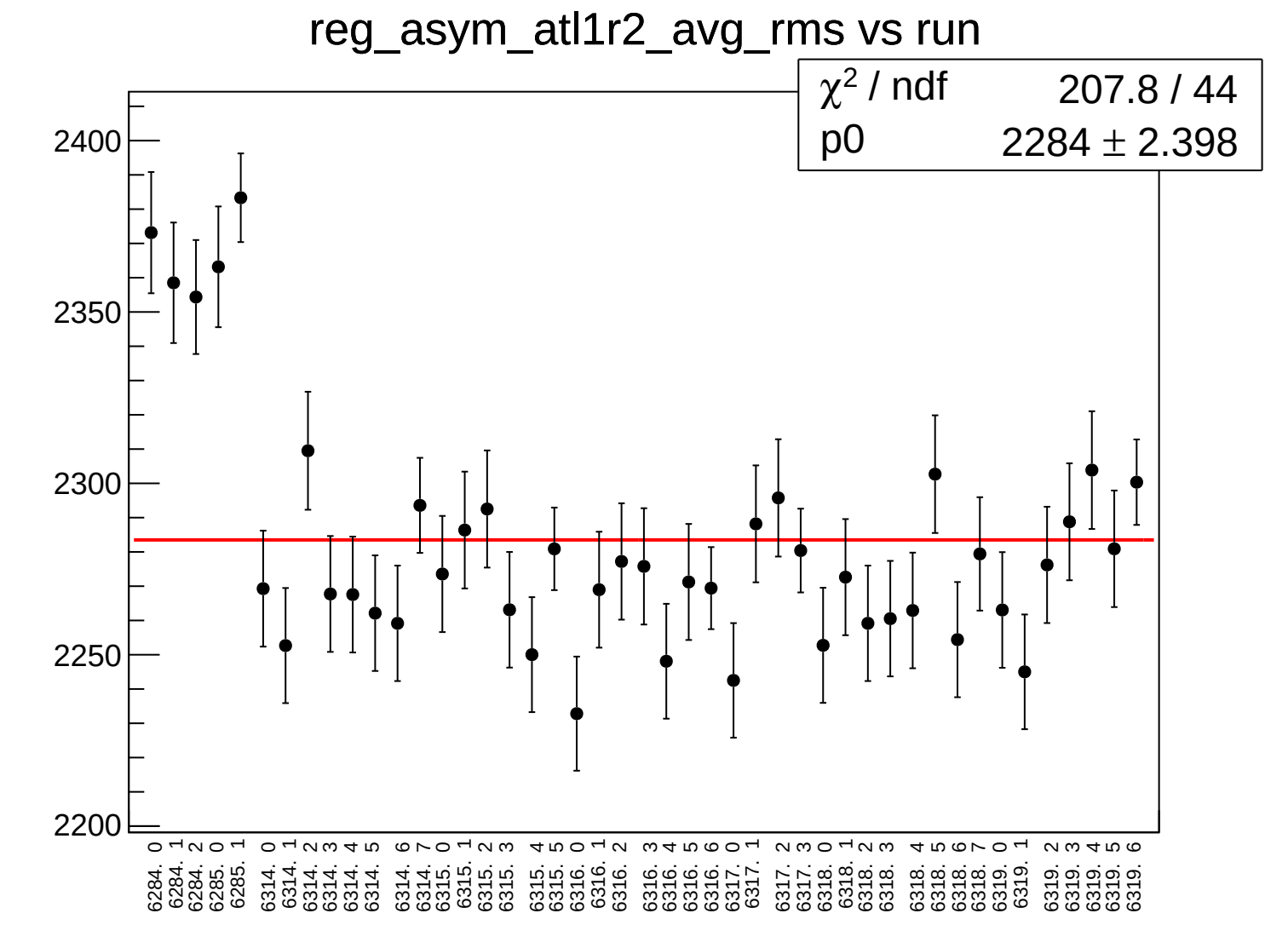

pull1D
Entries 45
Mean 0.07152
Std Dev 1.066

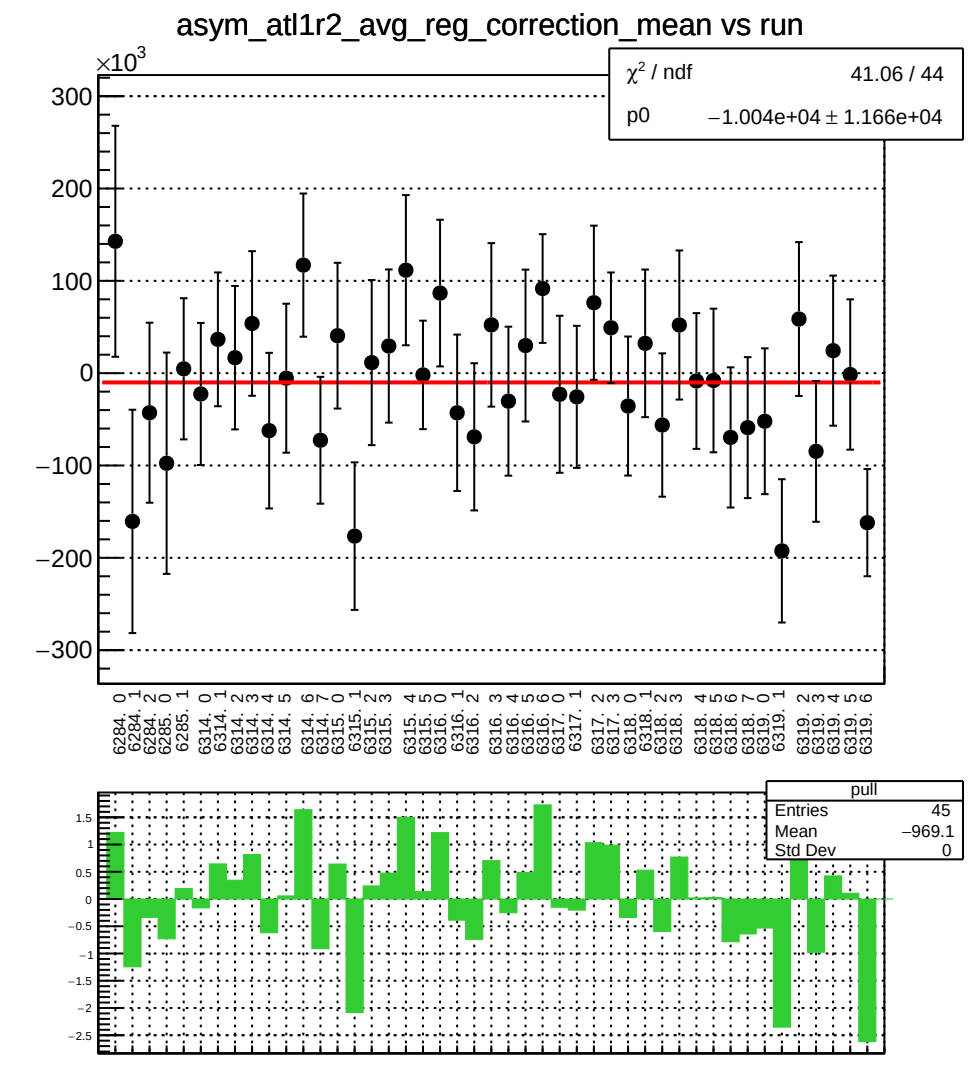

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.73e+04 / 44
p0 234.4 ± 0.2558
400
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

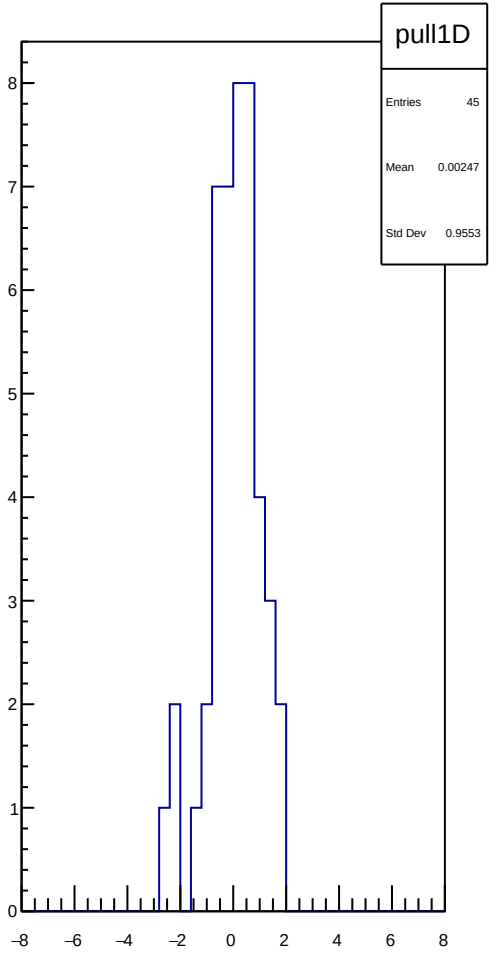

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.85 / 44
p0 1.26e−13 ± 2.378e−13
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.04985
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

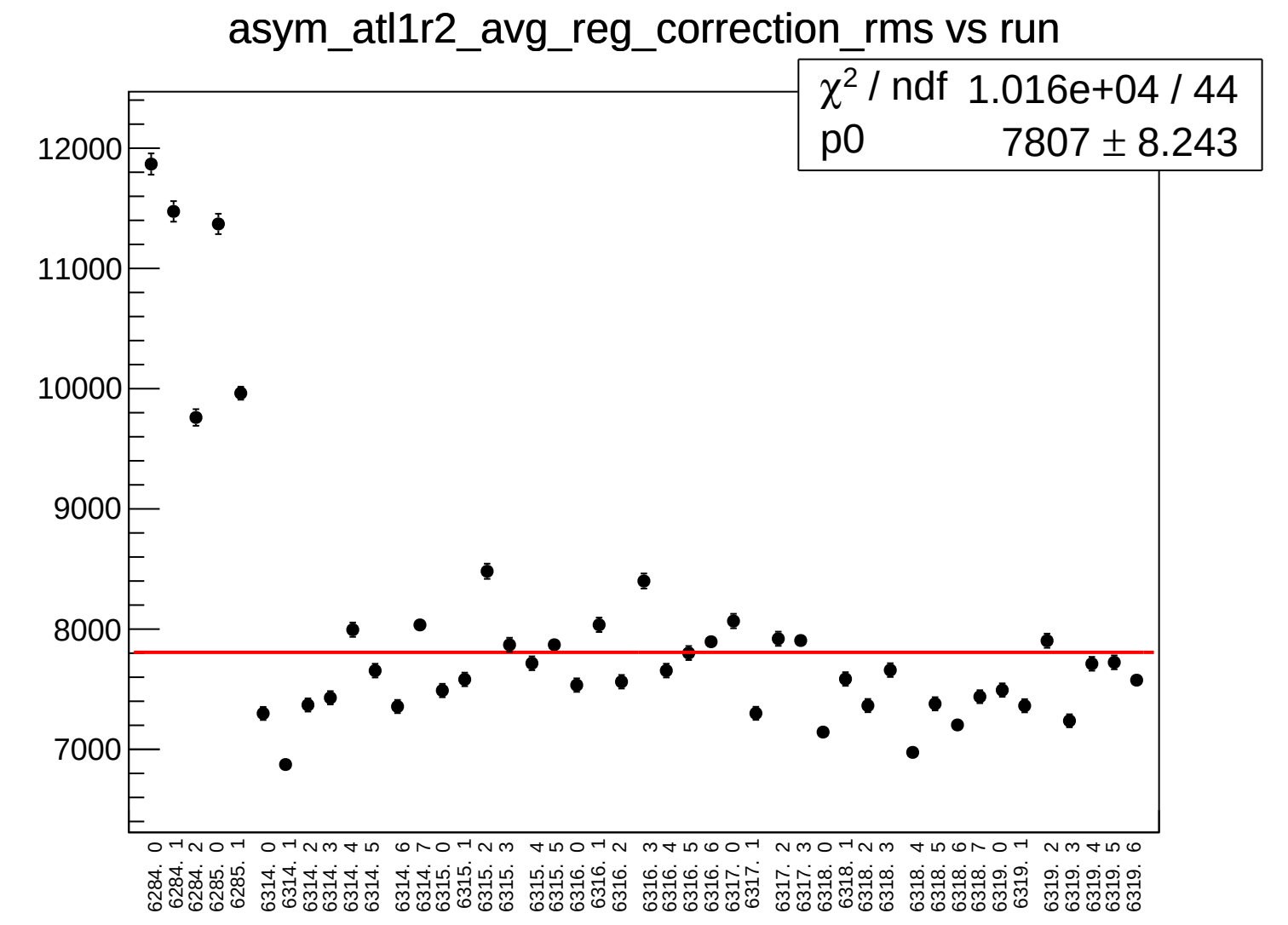

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.101e+05 / 44
p0 1.186e−10 ± 1.682e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

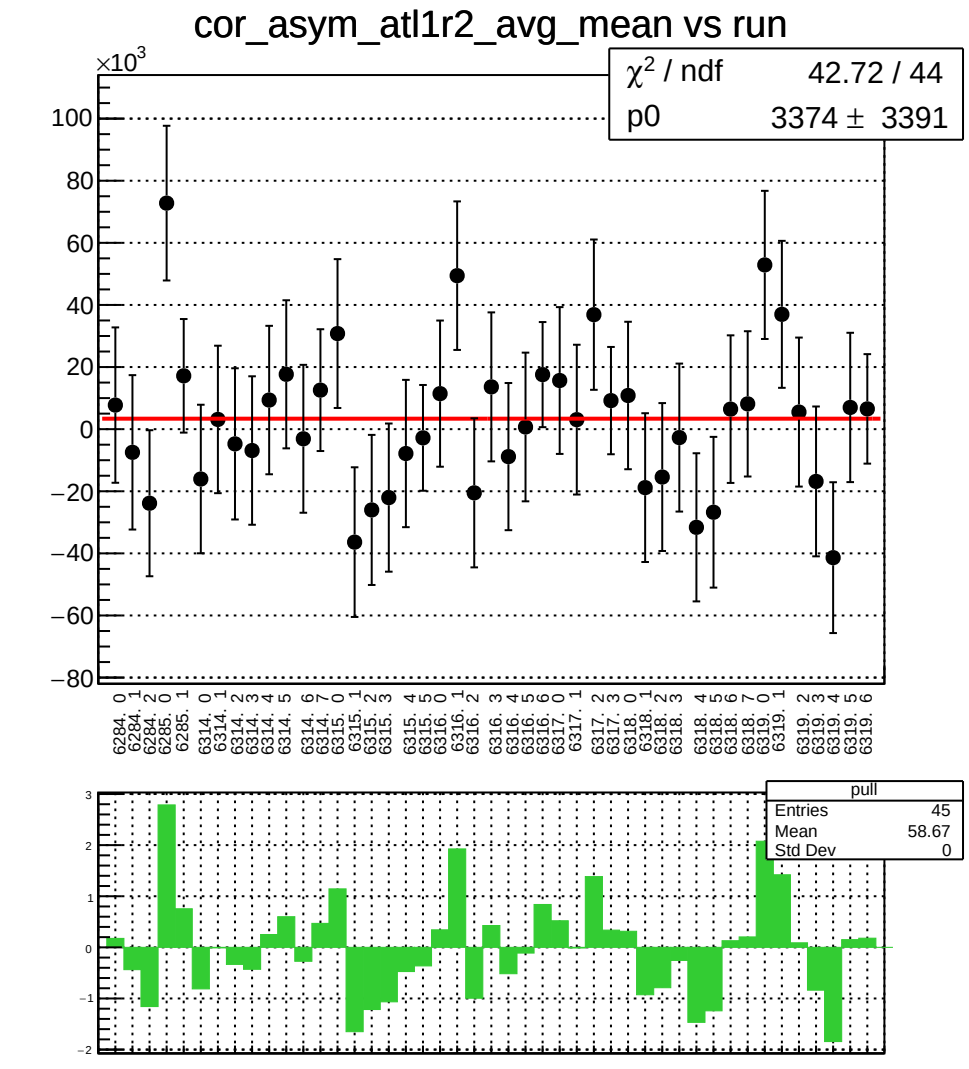

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 42.72 / 44
p0 3374 ± 3391
×10³
pull
Entries 45
Mean 58.68
Std Dev 0
pull1D
Entries 45
Mean −0.01546
Std Dev 0.9743

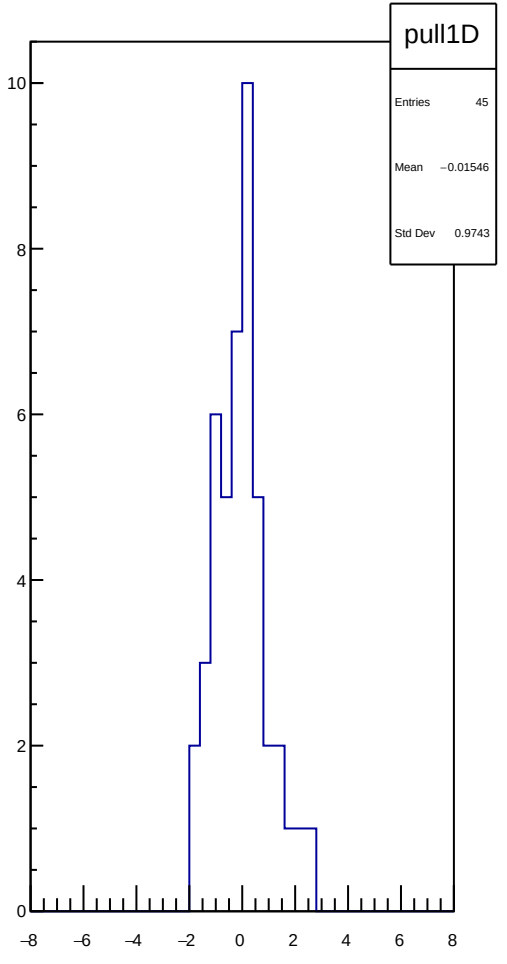

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 207.8 / 44
p0 2284 ± 2.398
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

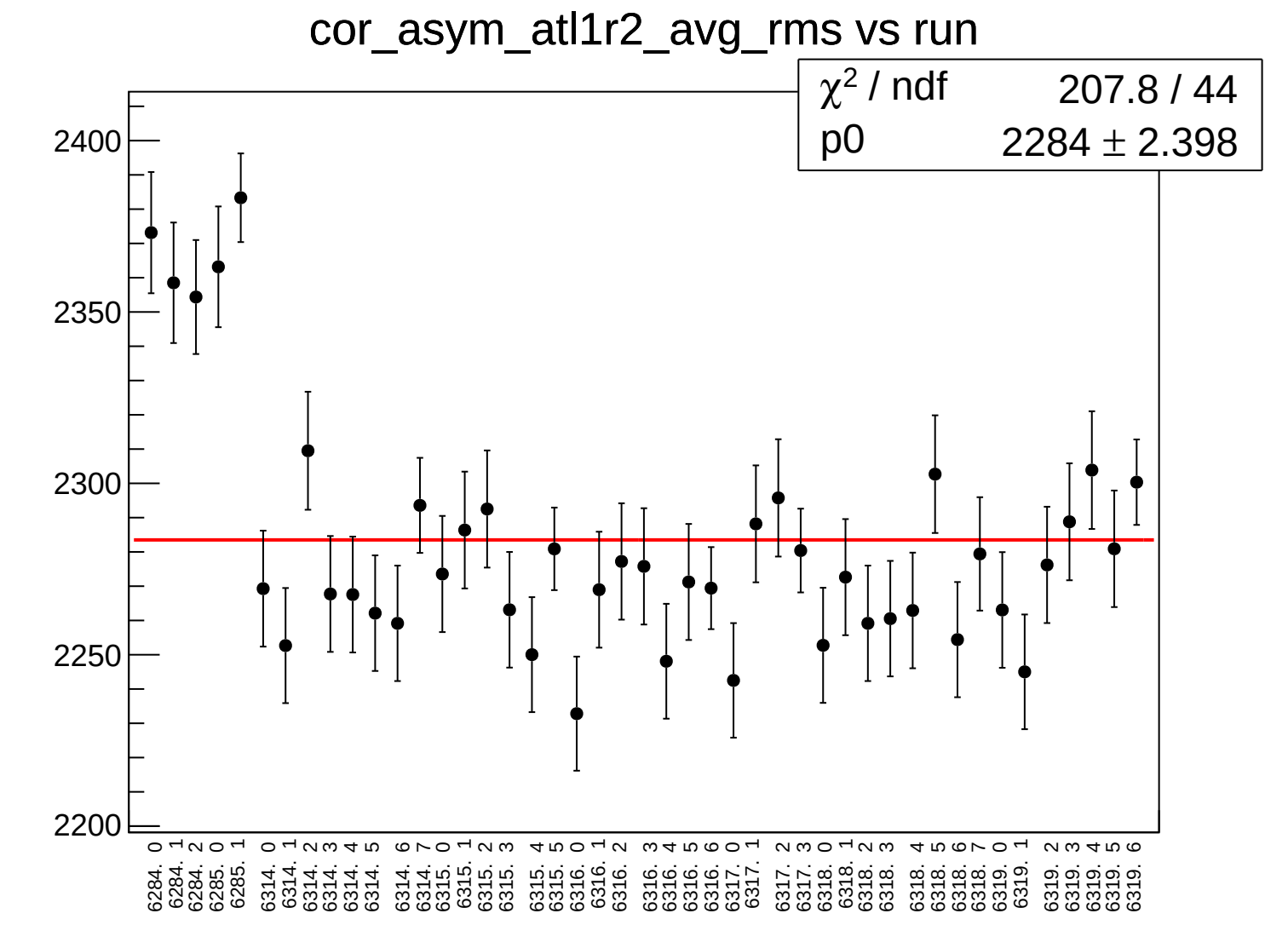

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.06 / 44
p0 −1.004e+04 ± 1.166e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −969.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.00247
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.016e+04 / 44
p0 7807 ± 8.243
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 42.72 / 44
p0 3374 ± 3391
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 58.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01546
Std Dev 0.9743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 207.8 / 44
p0 2284 ± 2.398
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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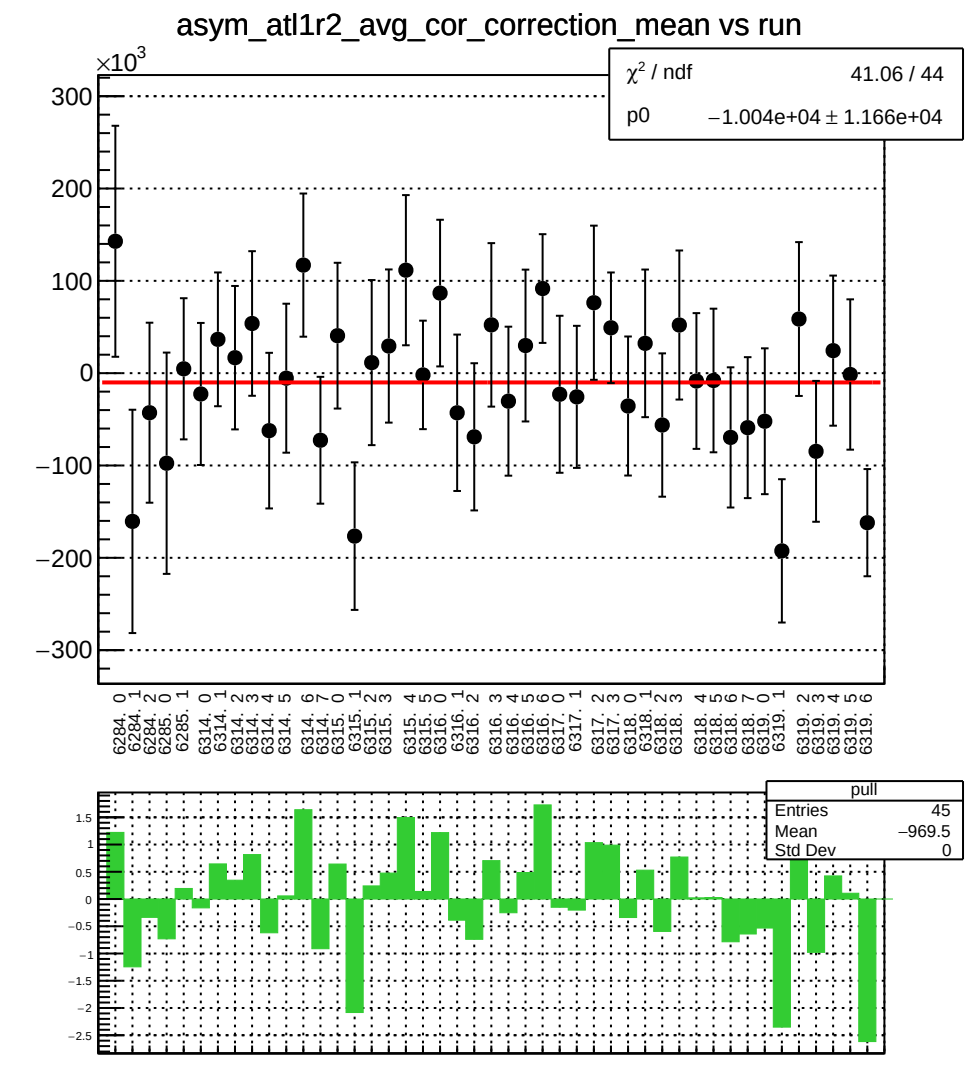
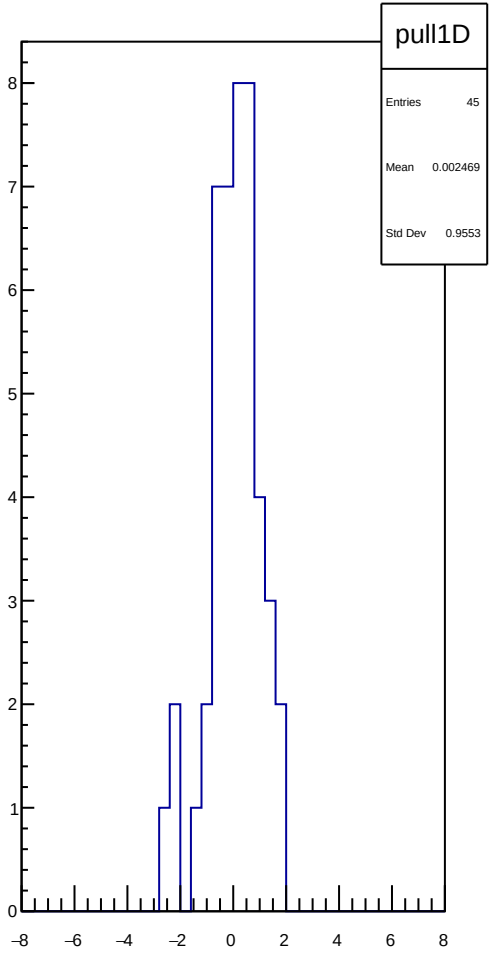
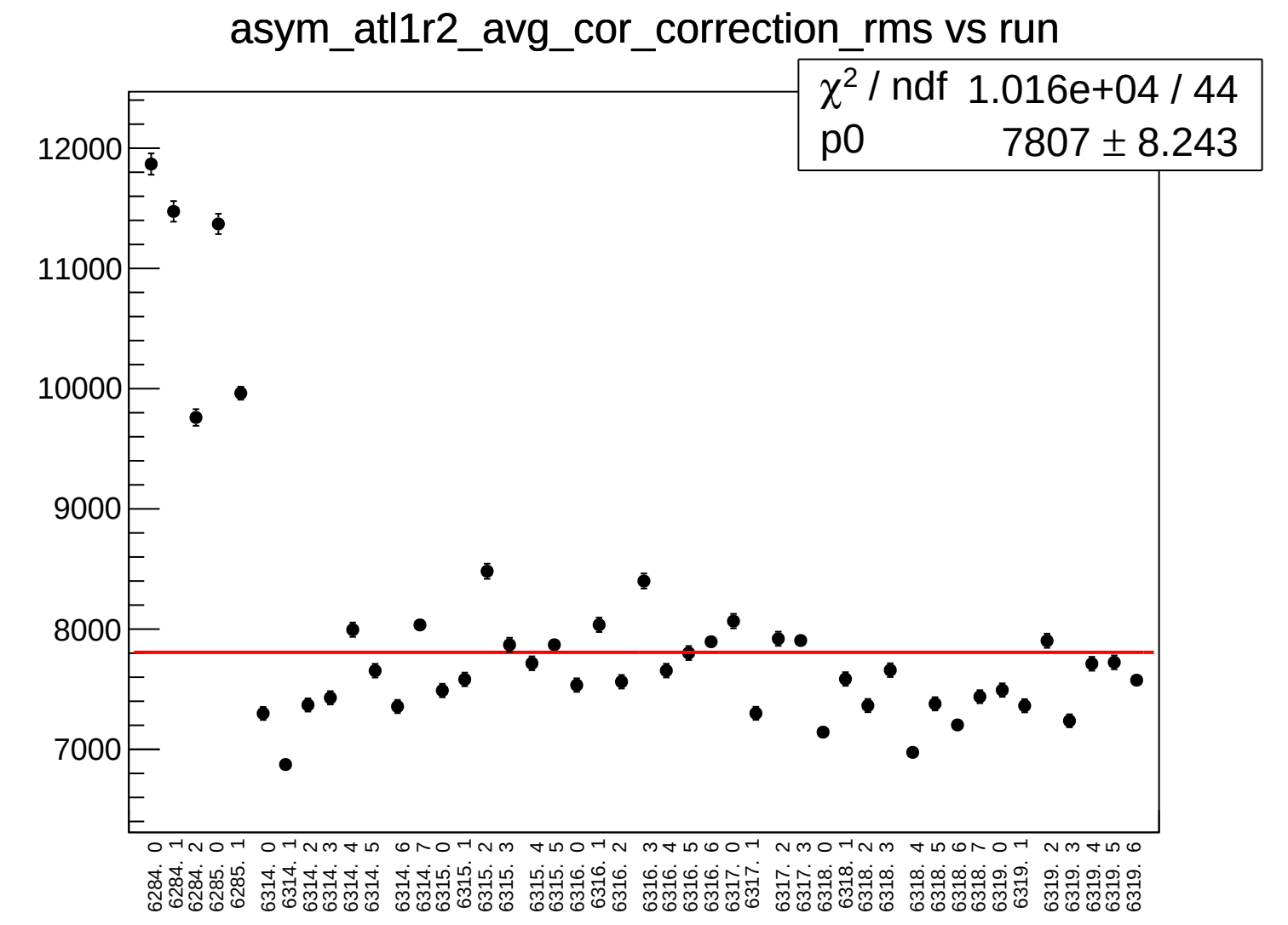
6319. 6


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.06 / 44
p0 −1.004e+04 ± 1.166e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −969.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002469
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 44
p0 7807 ± 8.243
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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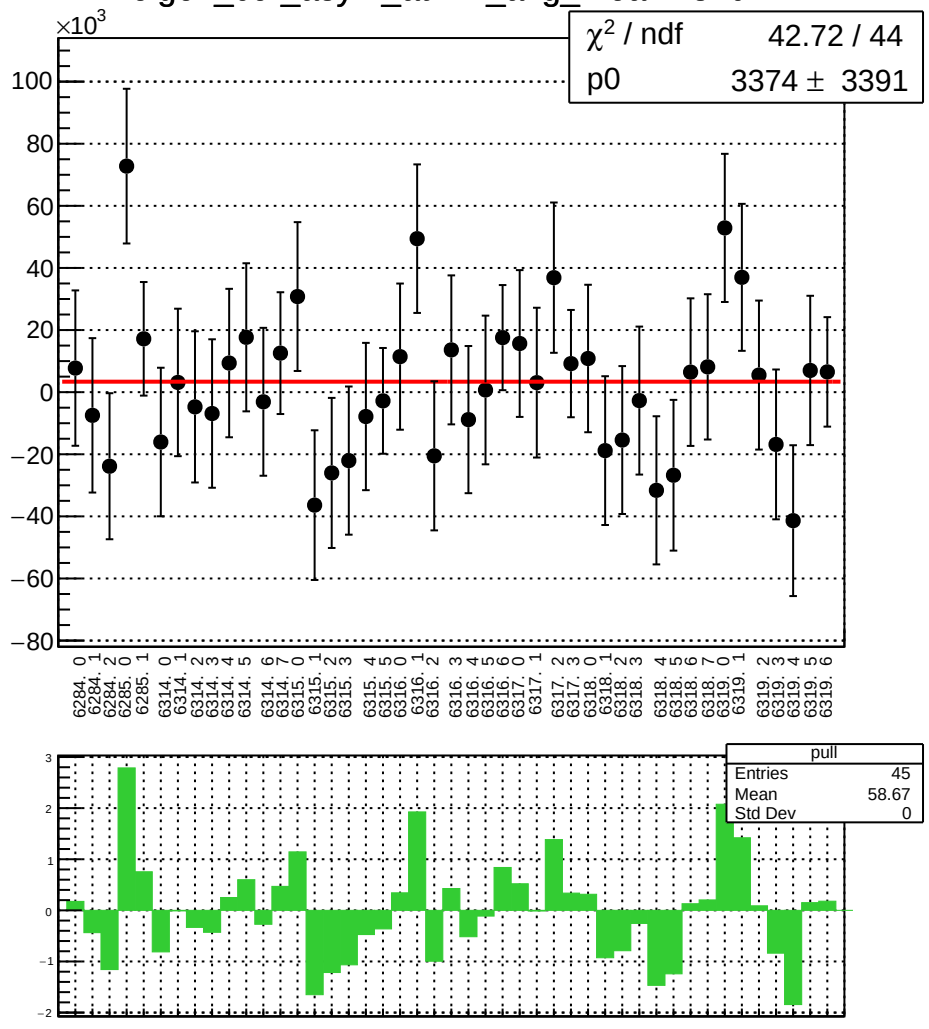
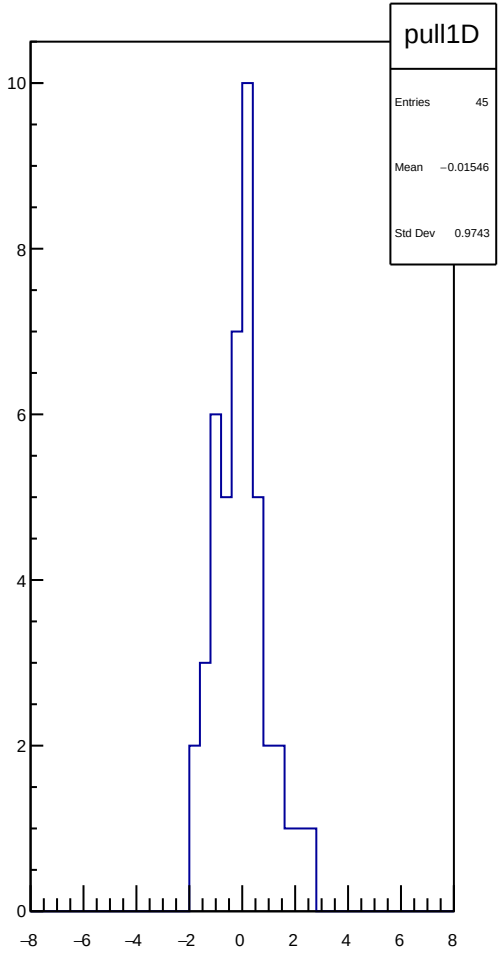
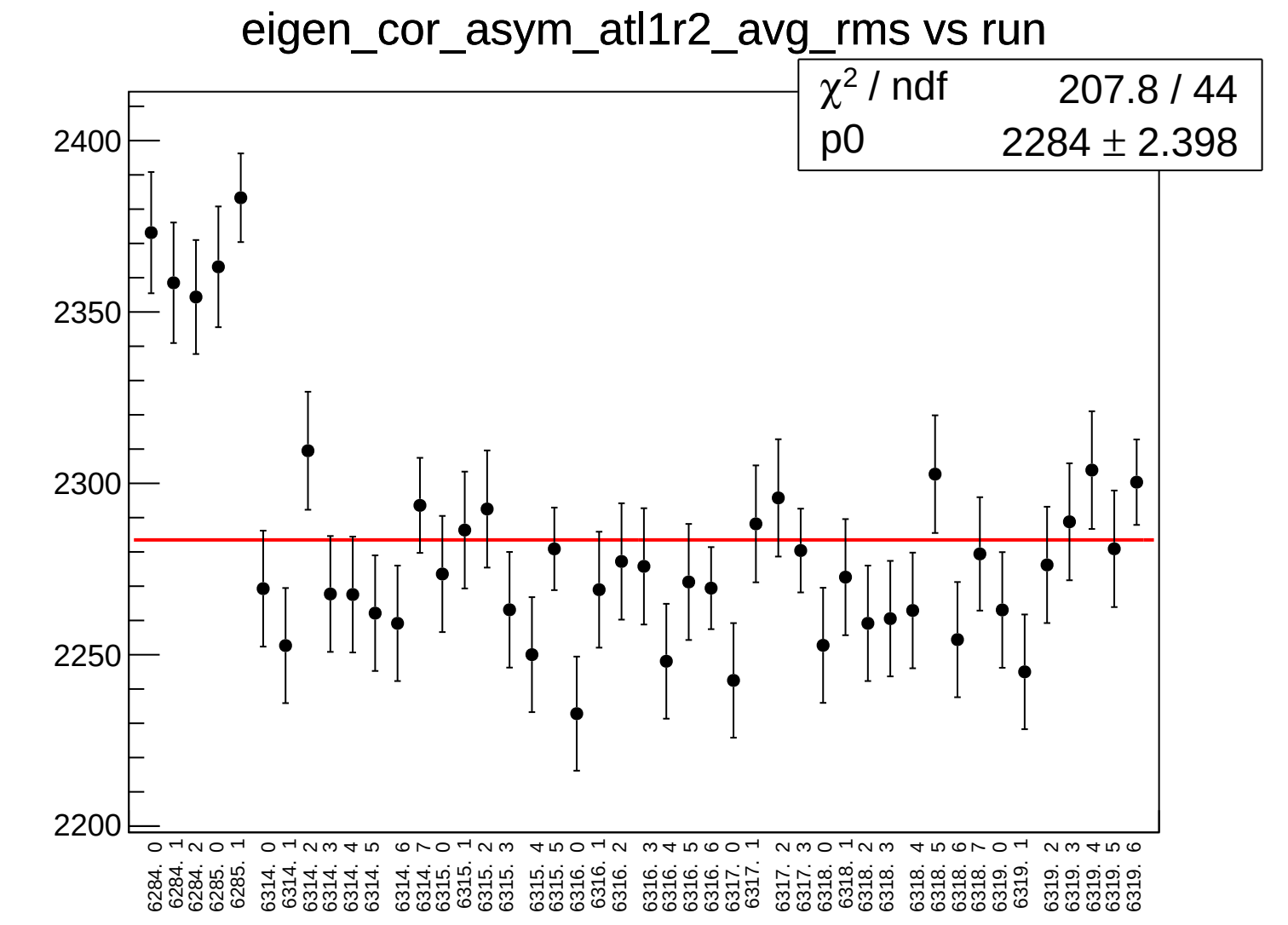
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 42.72 / 44
p0 3374 ± 3391
pull
Entries 45
Mean 58.67
Std Dev 0


pull1D
Entries 45
Mean −0.01546
Std Dev 0.9743


eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 207.8 / 44
p0 2284 ± 2.398
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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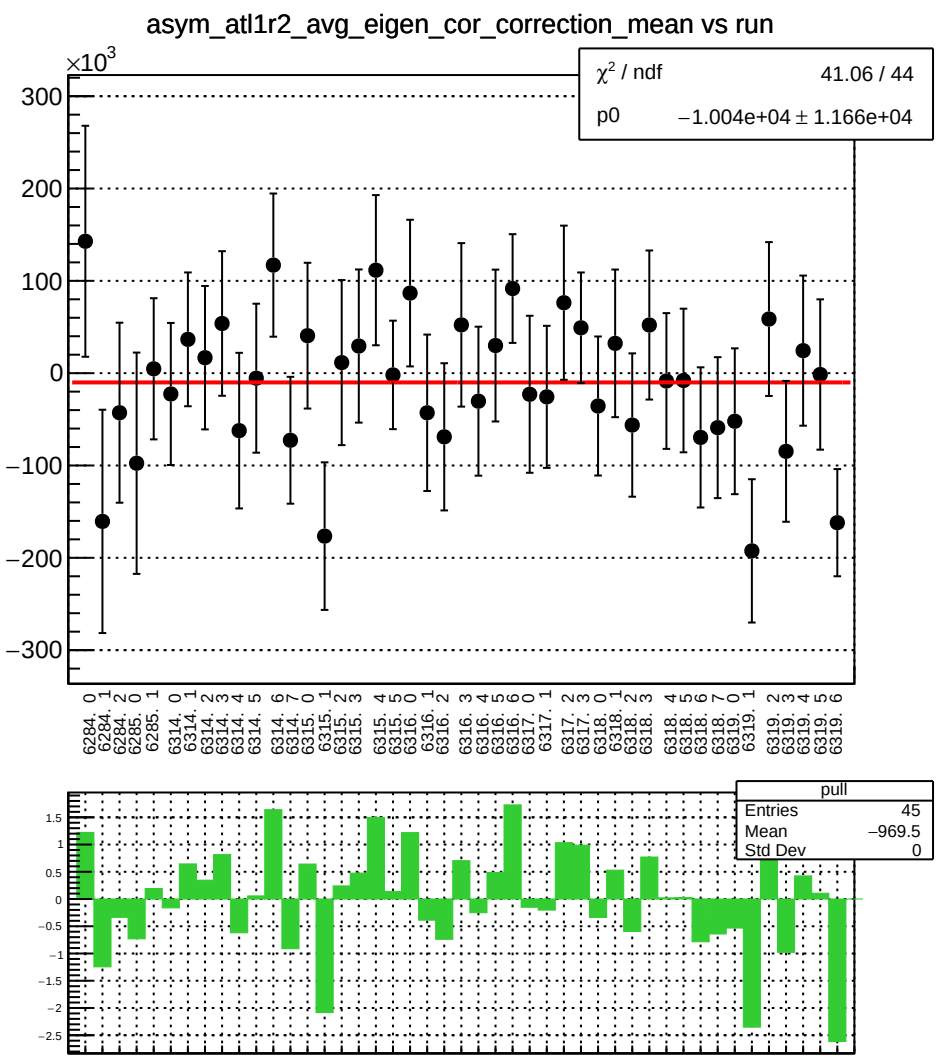
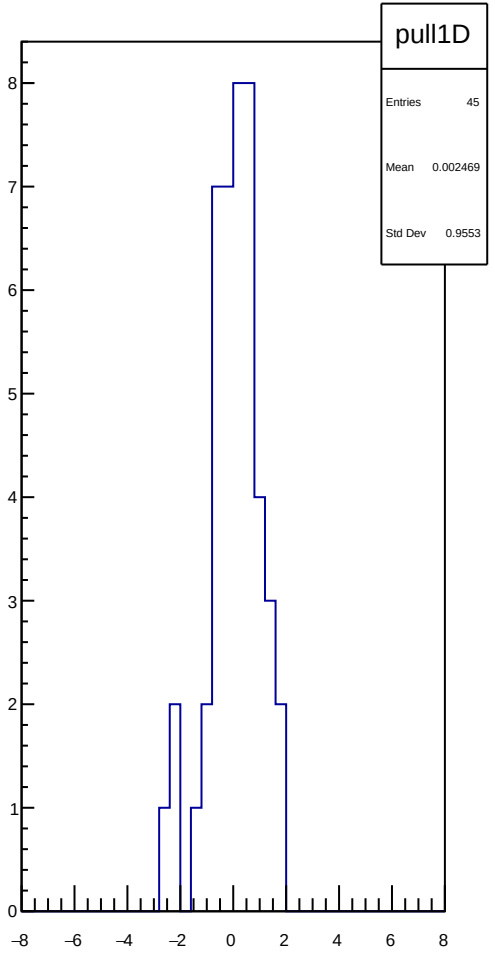
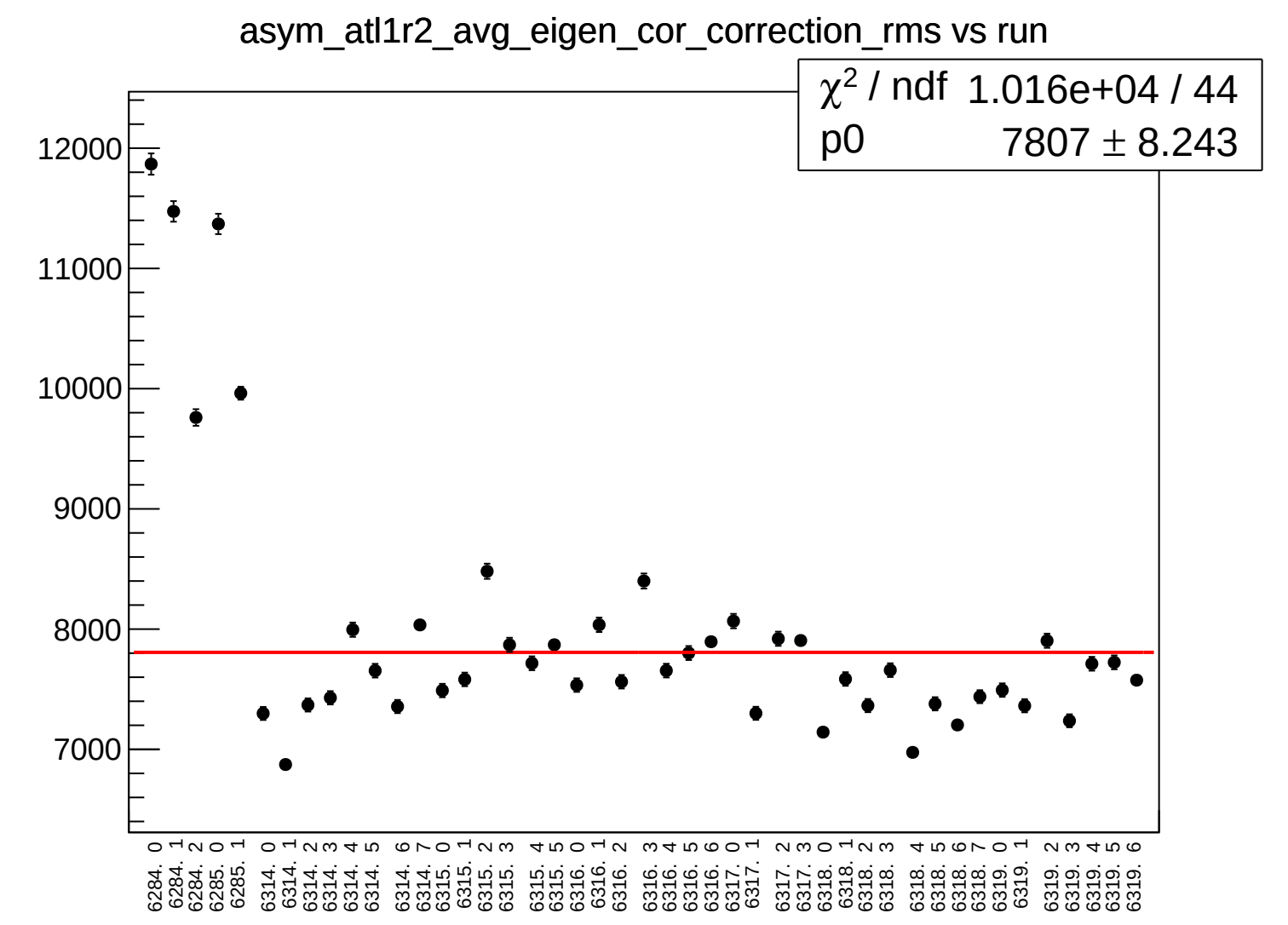
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.06 / 44
p0 −1.004e+04 ± 1.166e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −969.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002469
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 44
p0 7807 ± 8.243
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6315. 4
6315. 5
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6316. 2
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6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 2
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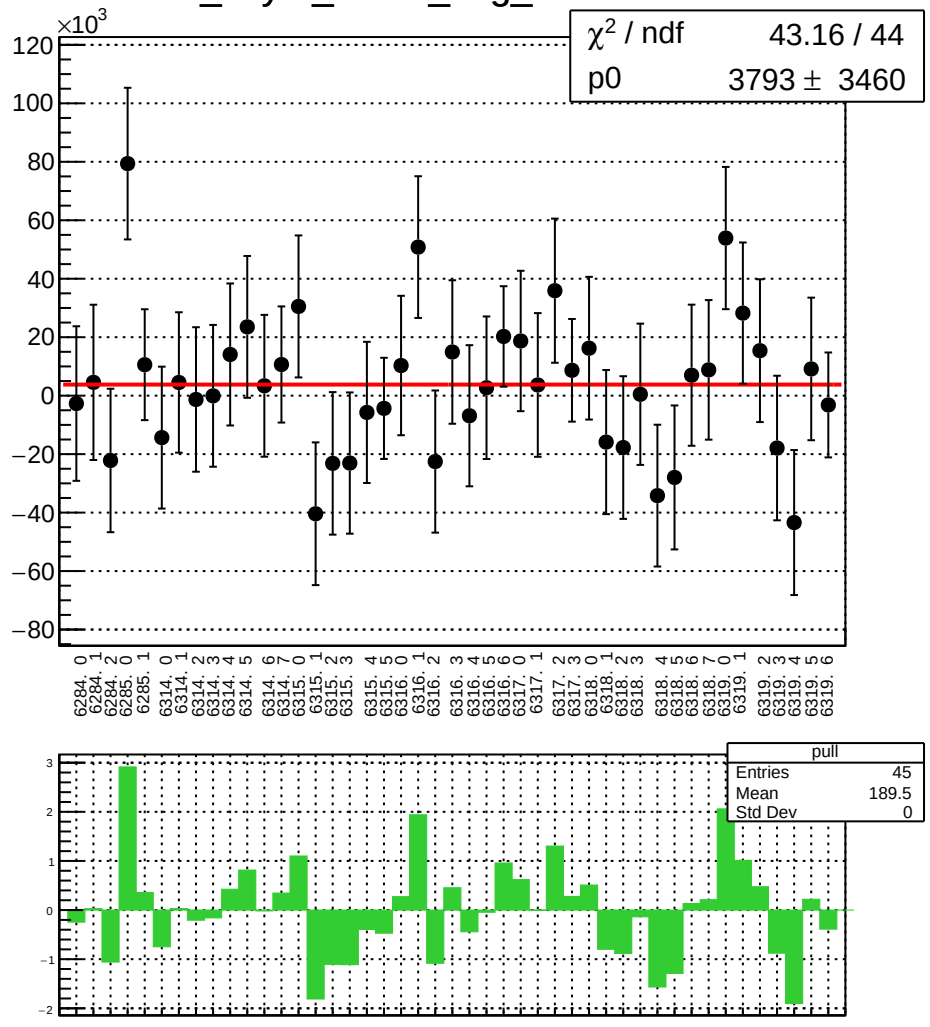
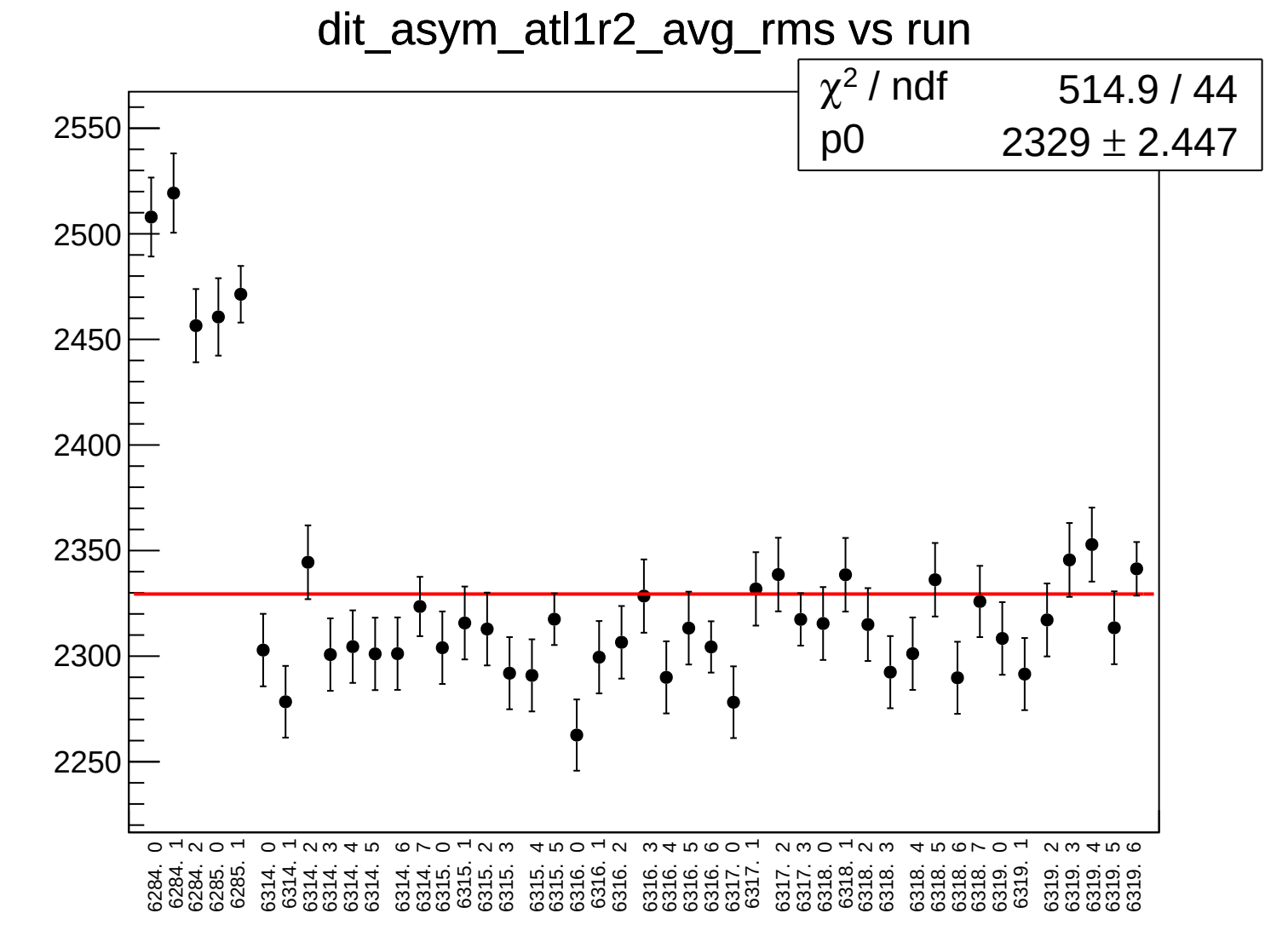
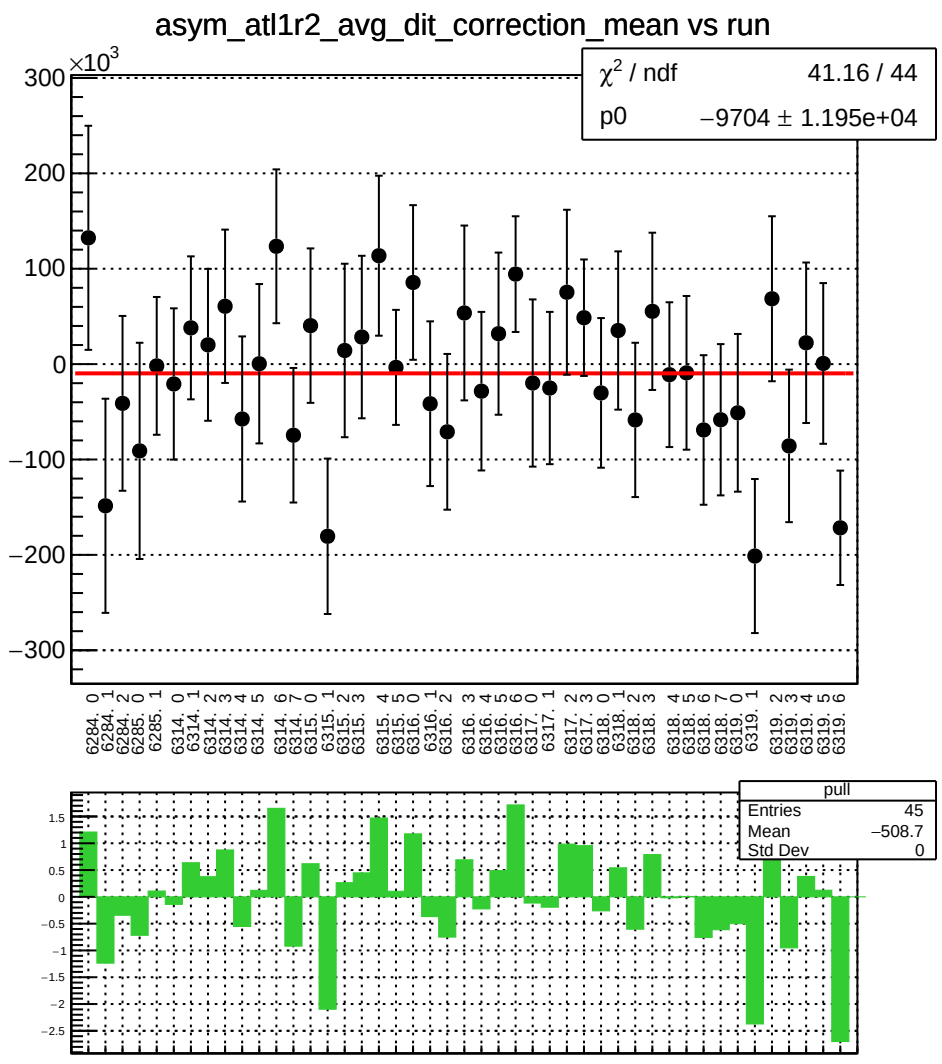
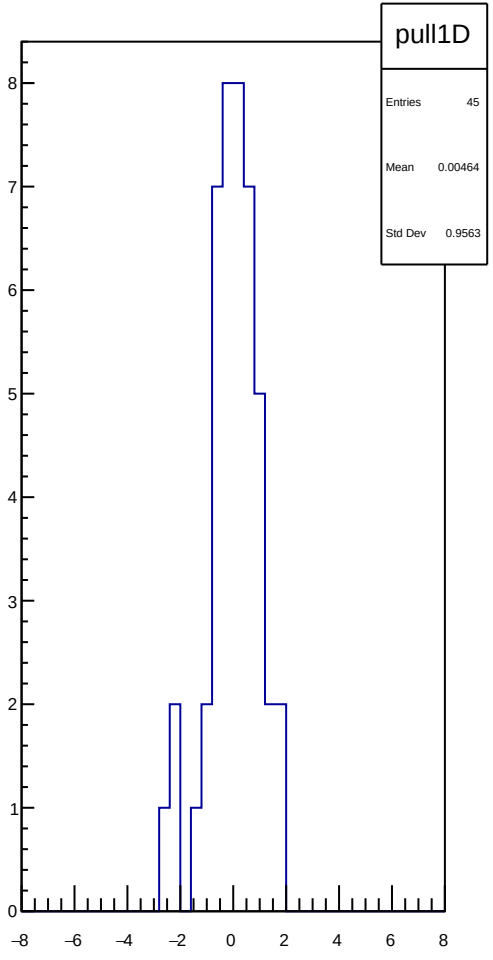
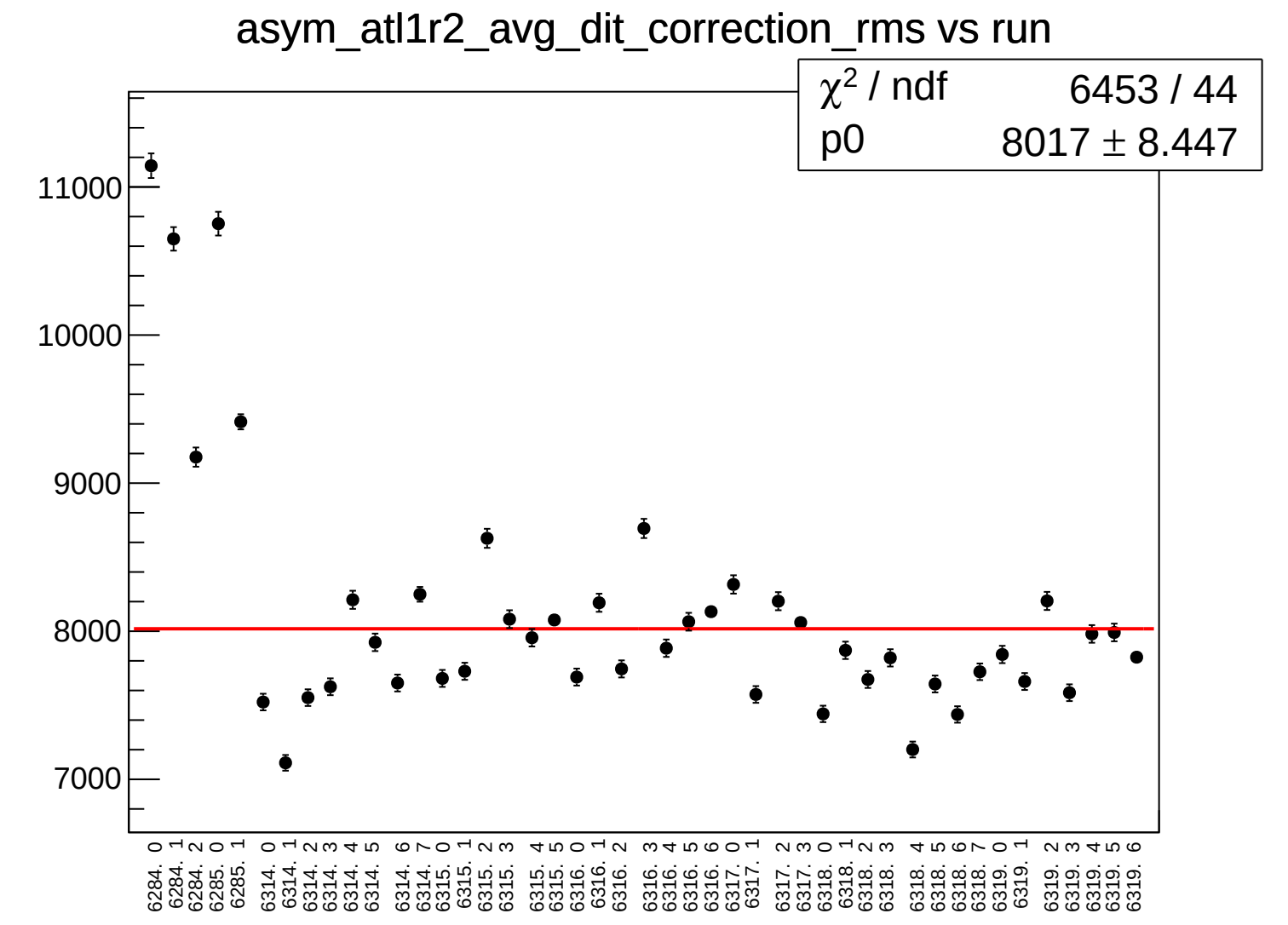
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

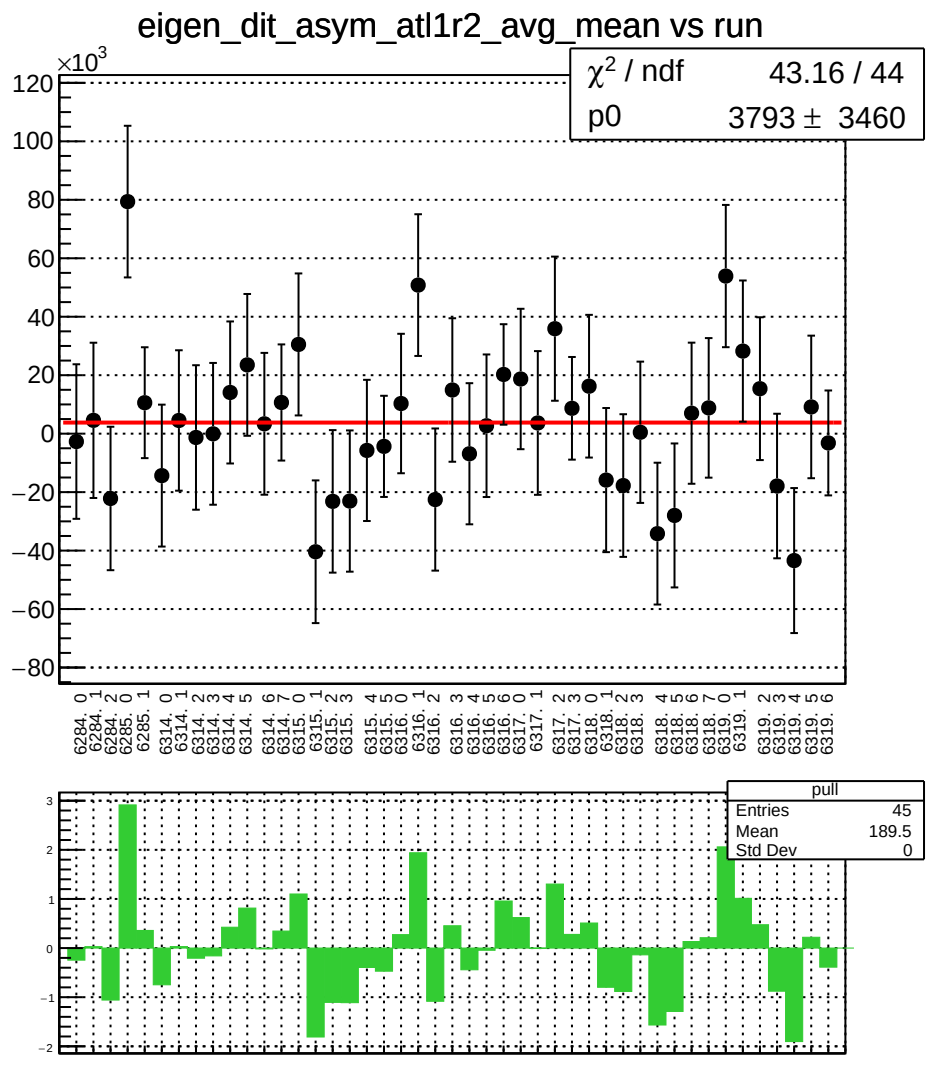

dit_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 43.16 / 44
p0 3793 ± 3460
pull
Entries 45
Mean 189.5
Std Dev 0
pull1D
Entries 45
Mean −0.00626
Std Dev 0.9794

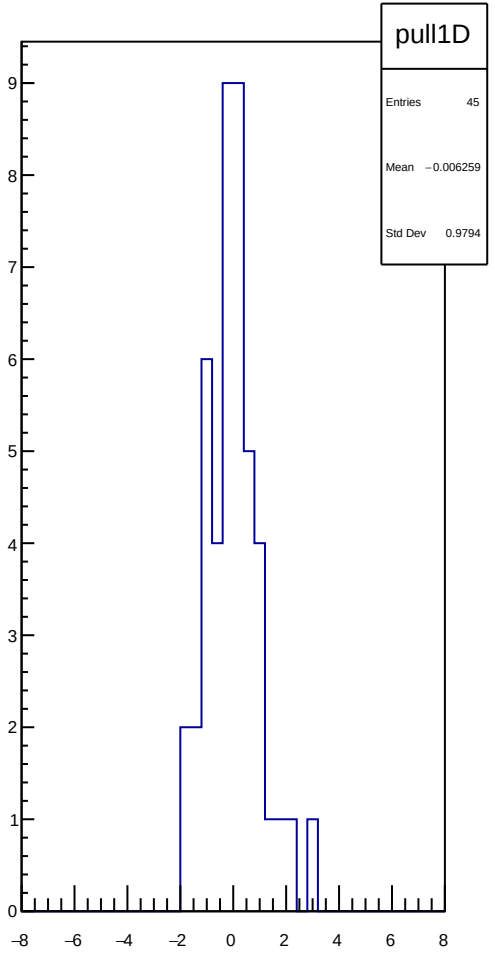

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 514.9 / 44
p0 2329 ± 2.447
2550
2500
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

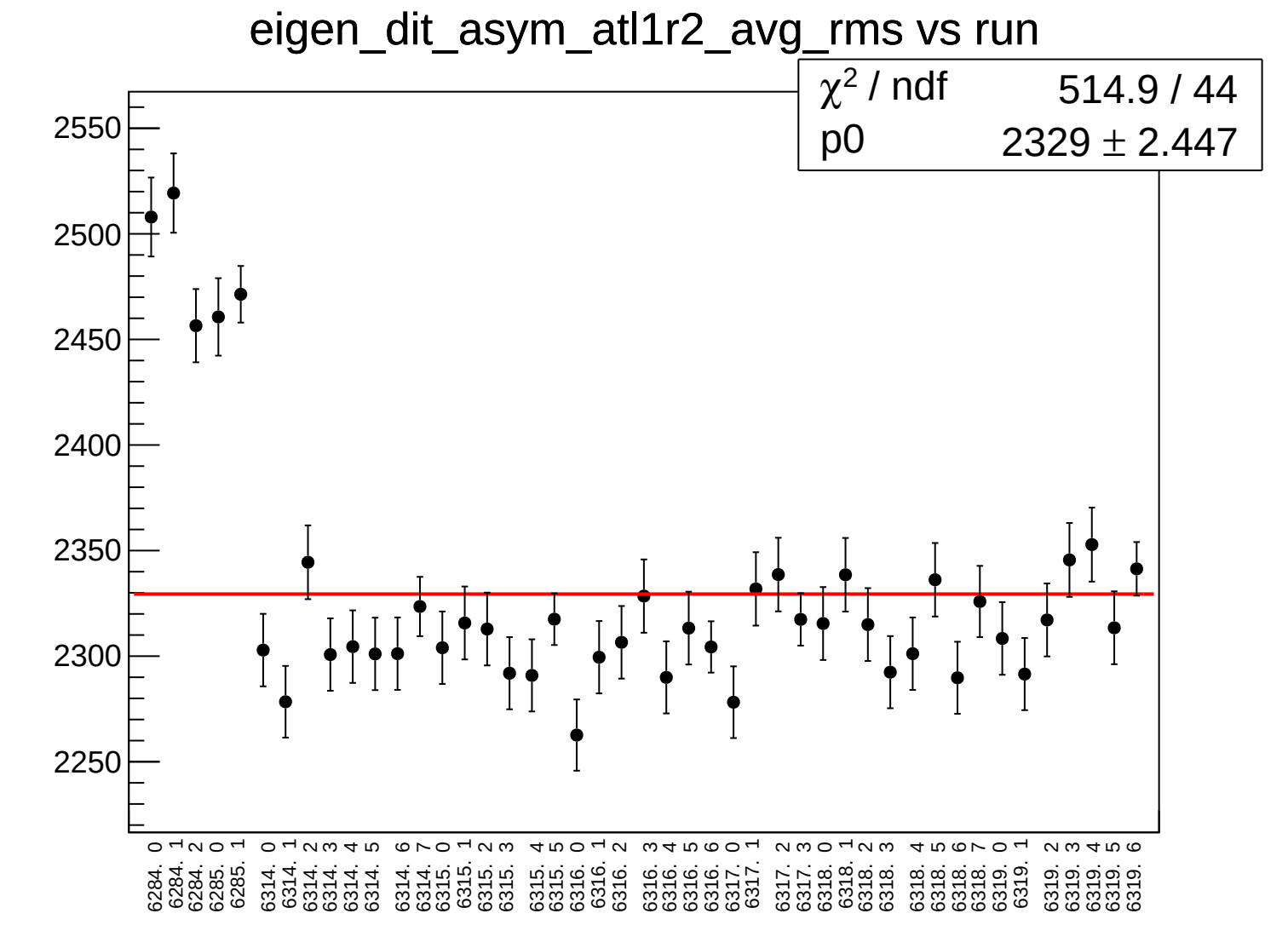

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.16 / 44
p0 −9704 ± 1.195e+04
pull
Entries 45
Mean −508.7
Std Dev 0

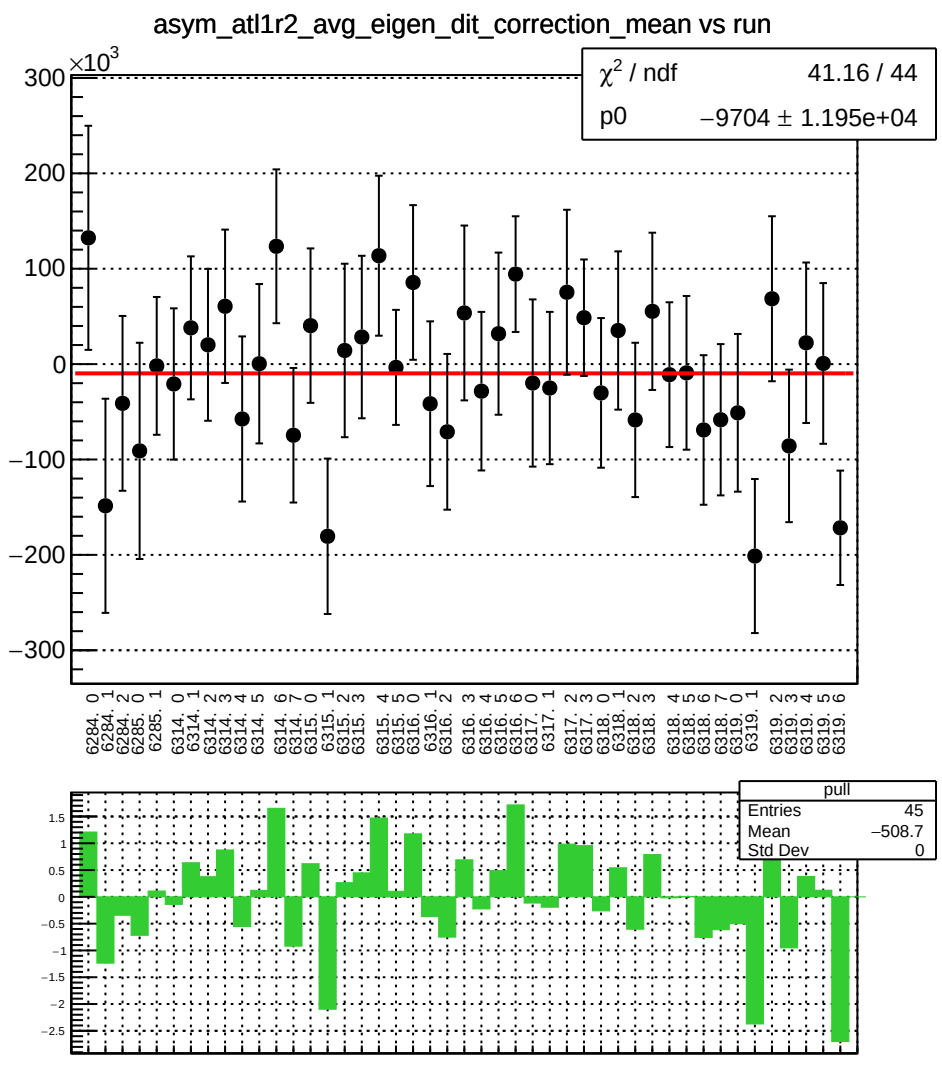

pull1D
Entries 45
Mean 0.00464
Std Dev 0.9563

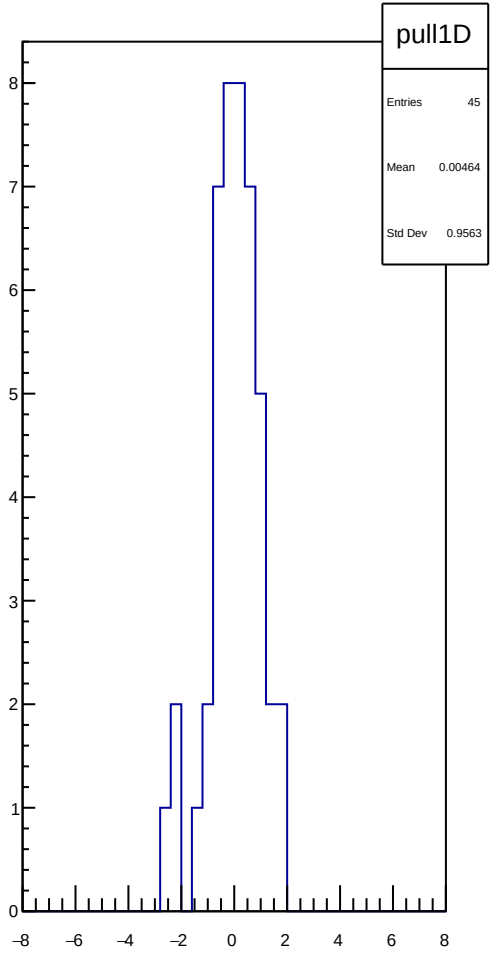

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6453 / 44
p0 8017 ± 8.447
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

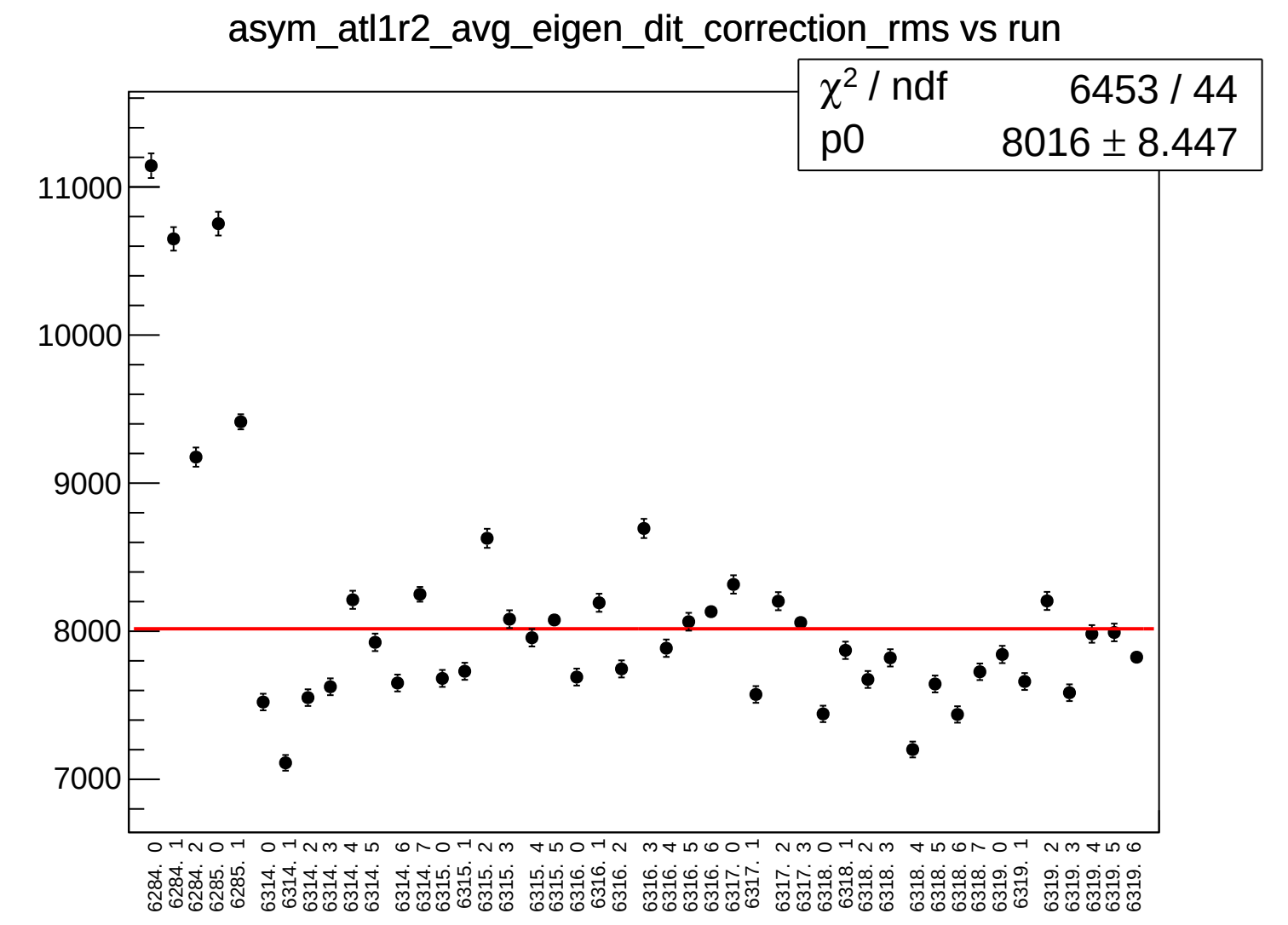

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 43.16 / 44
p0 3793 ± 3460
×10³
pull
Entries 45
Mean 189.5
Std Dev 0

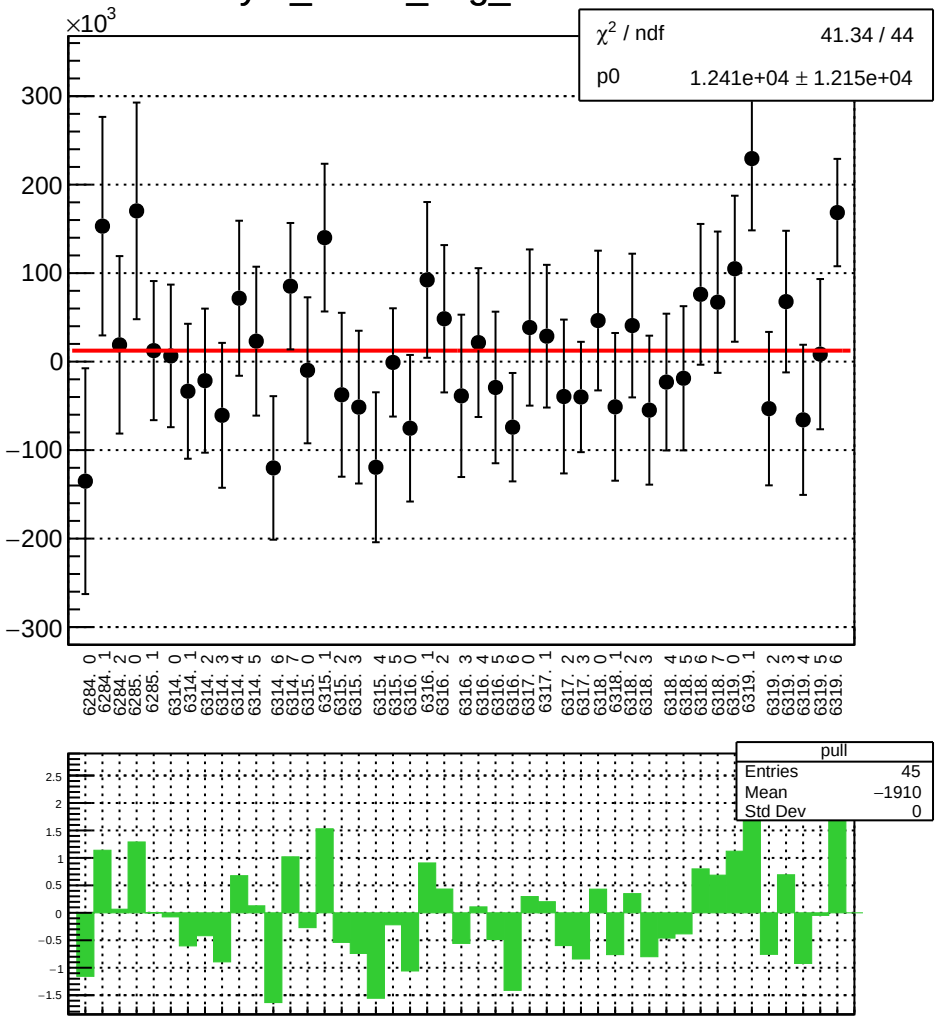

pull1D
Entries 45
Mean −0.006259
Std Dev 0.9794

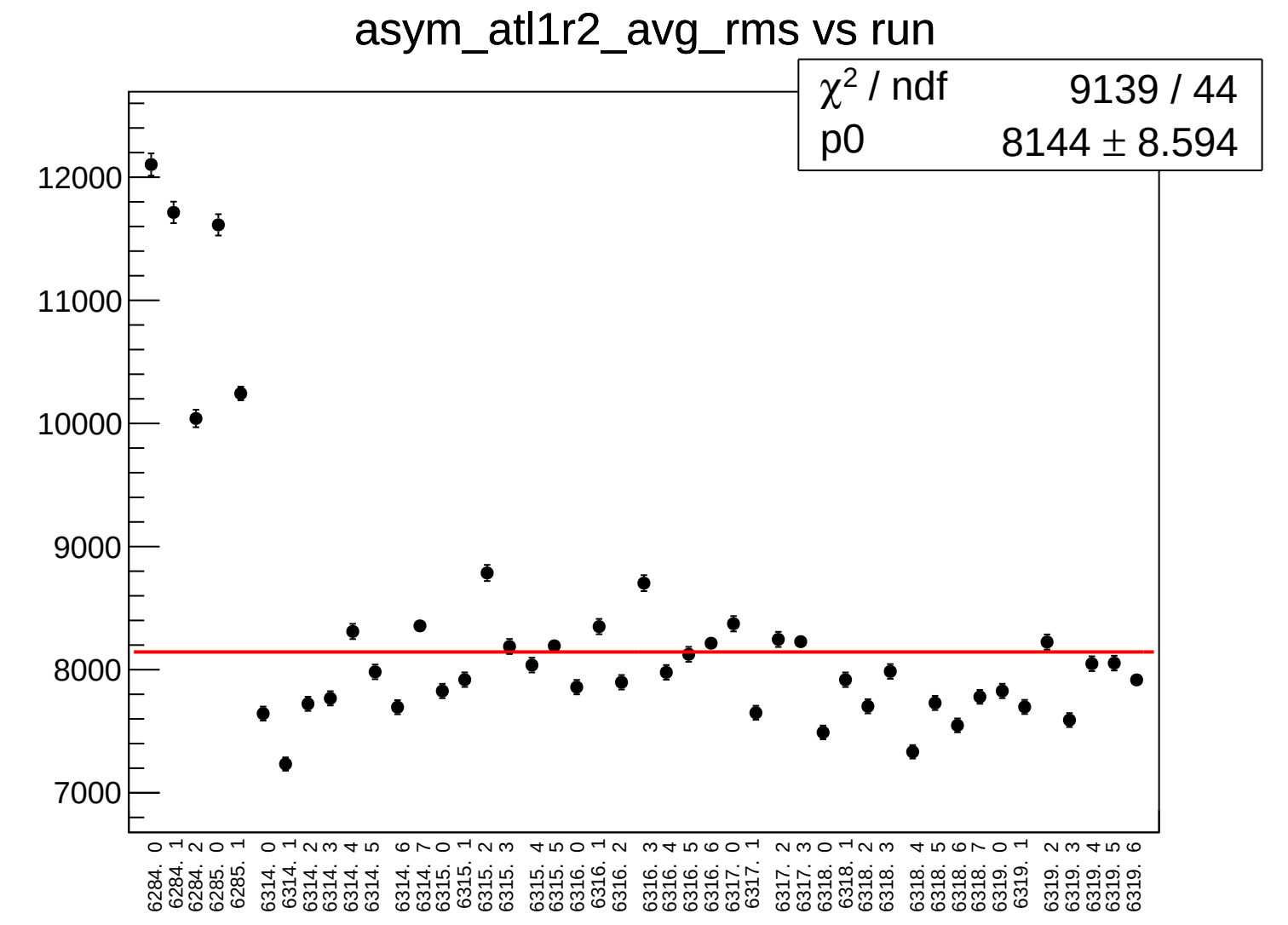

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 514.9 / 44
p0 2329 ± 2.447
2550
2500
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

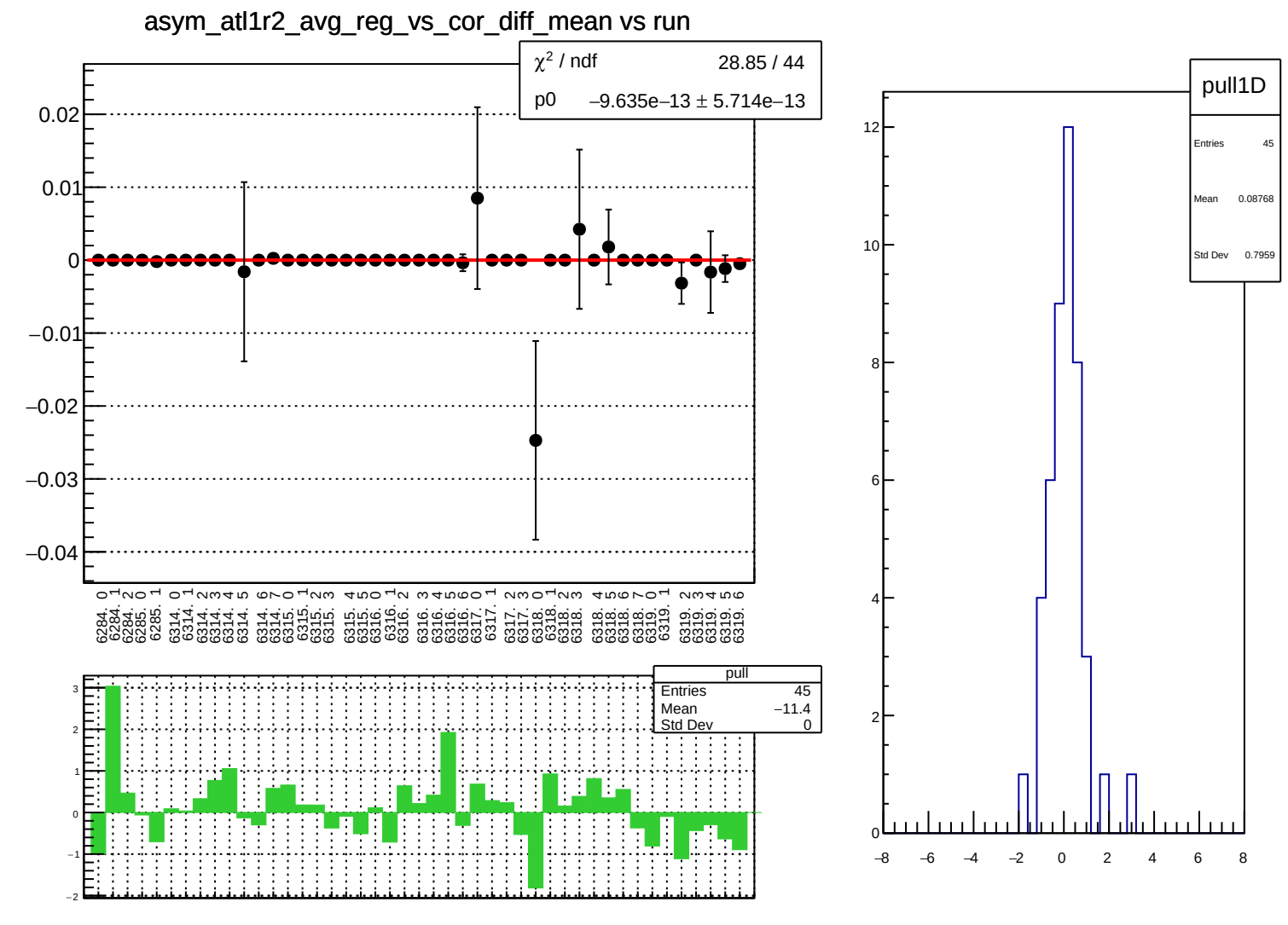

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.16 / 44
p0 −9704 ± 1.195e+04
pull
Entries 45
Mean −508.7
Std Dev 0

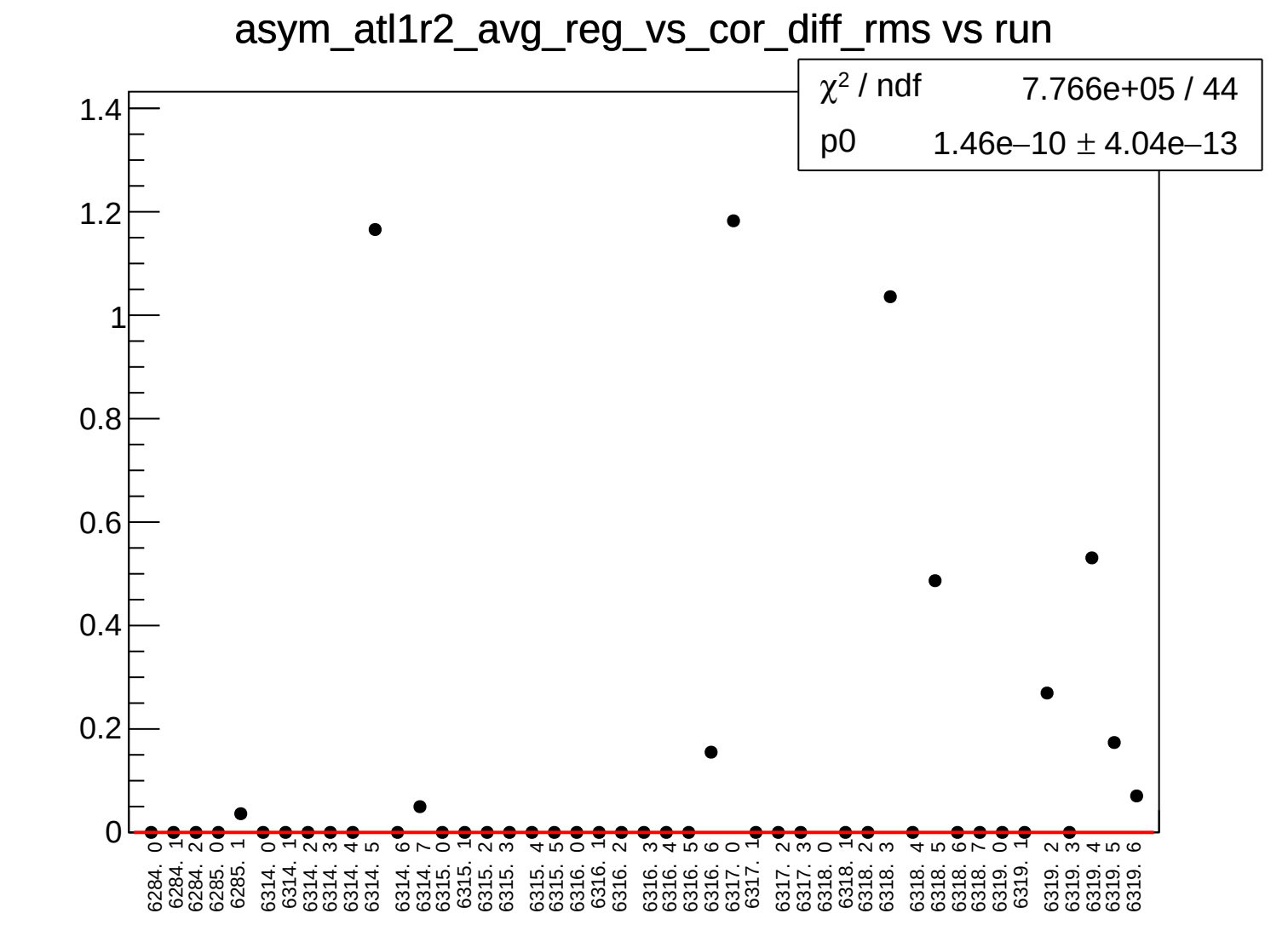

pull1D
Entries 45
Mean 0.00464
Std Dev 0.9563

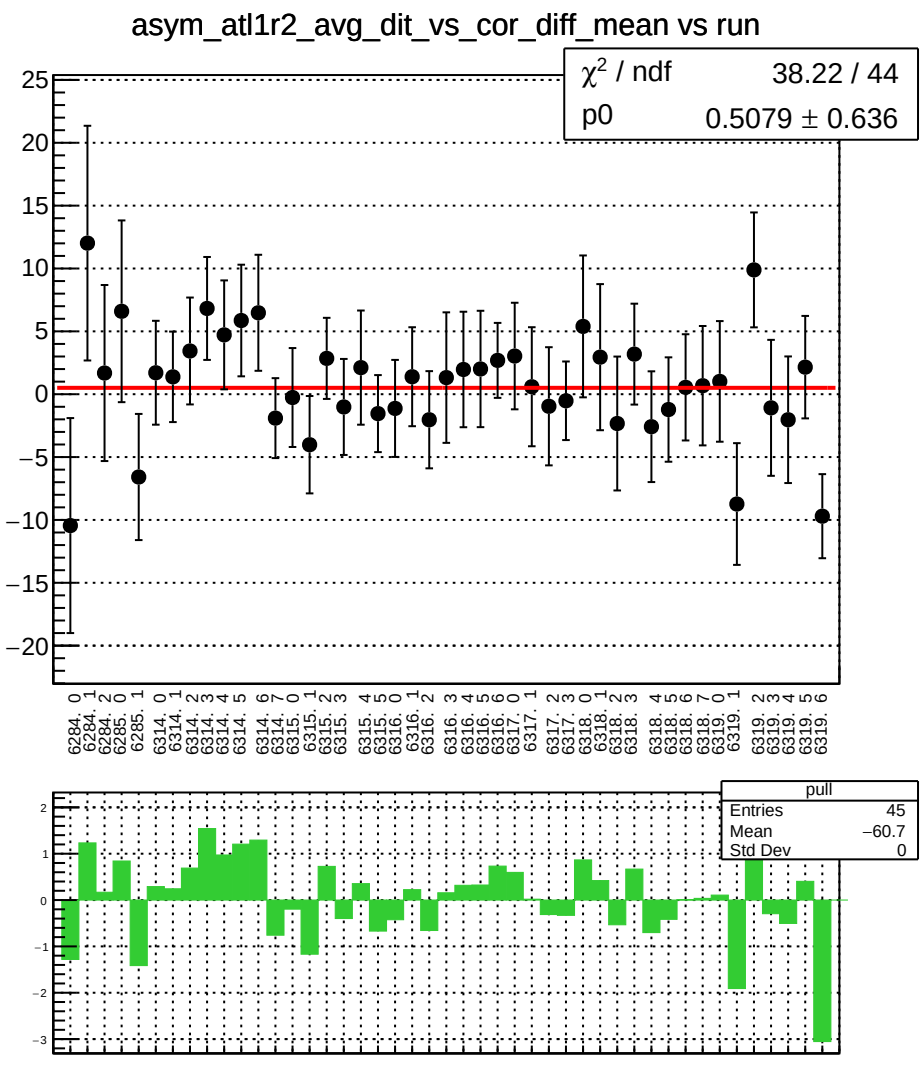

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6453 / 44
p0 8016 ± 8.447
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

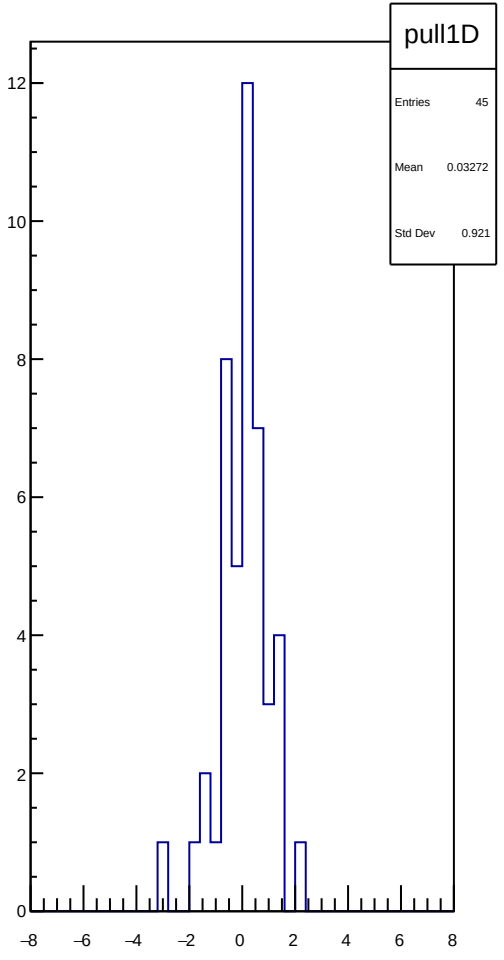

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 41.34 / 44
p0 1.241e+04 ± 1.215e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1910
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001159
Std Dev 0.9585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

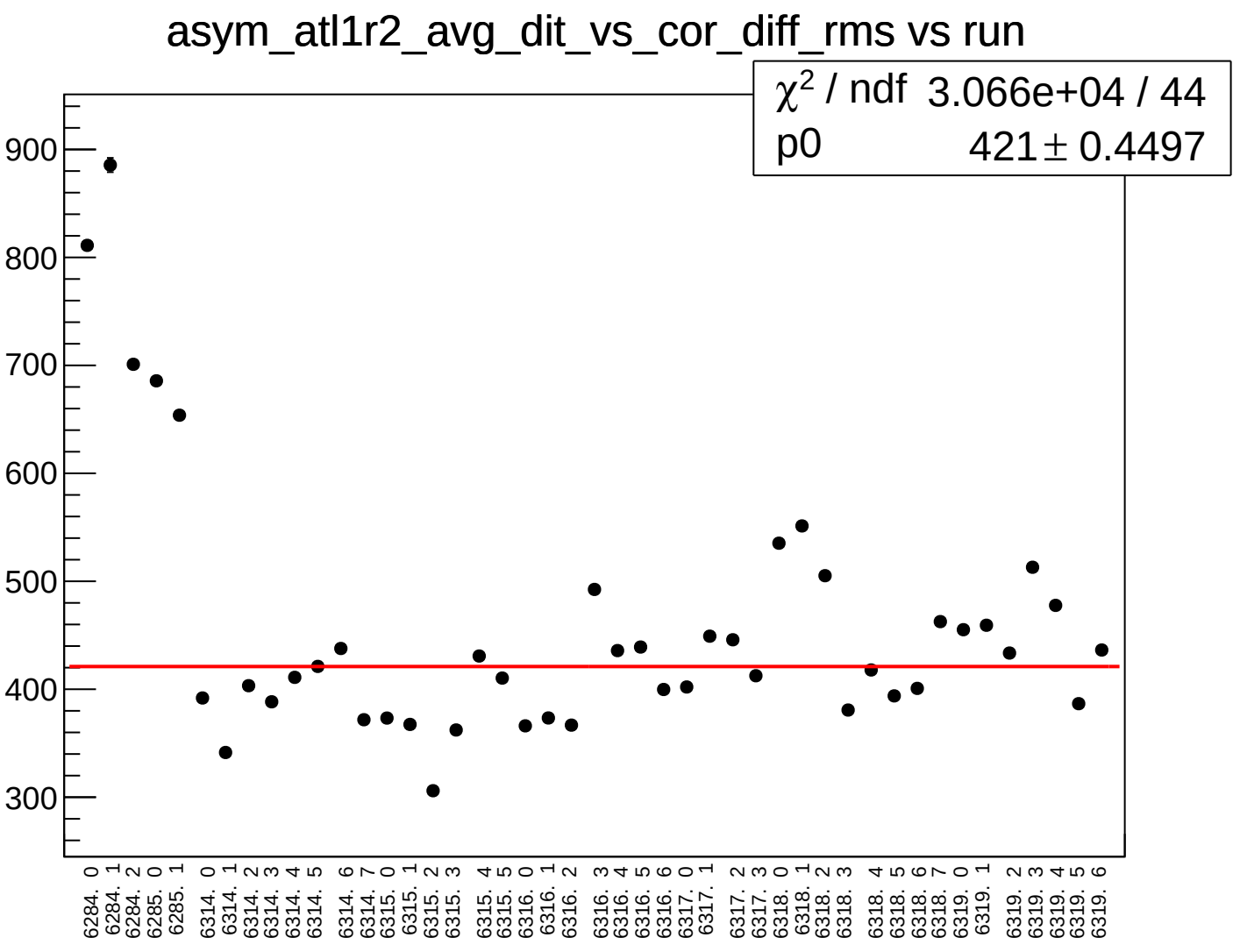

asym_atl1r2_avg_rms vs run
χ² / ndf 9139 / 44
p0 8144 ± 8.594
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.85 / 44
p0 −9.635e−13 ± 5.714e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.08768
Std Dev 0.7959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.766e+05 / 44
p0 1.46e−10 ± 4.04e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.5079 ± 0.636
pull
Entries 45
Mean −60.7
Std Dev 0


pull1D
Entries 45
Mean 0.03272
Std Dev 0.921


asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.066e+04 / 44
p0 421 ± 0.4497
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
6319. 0
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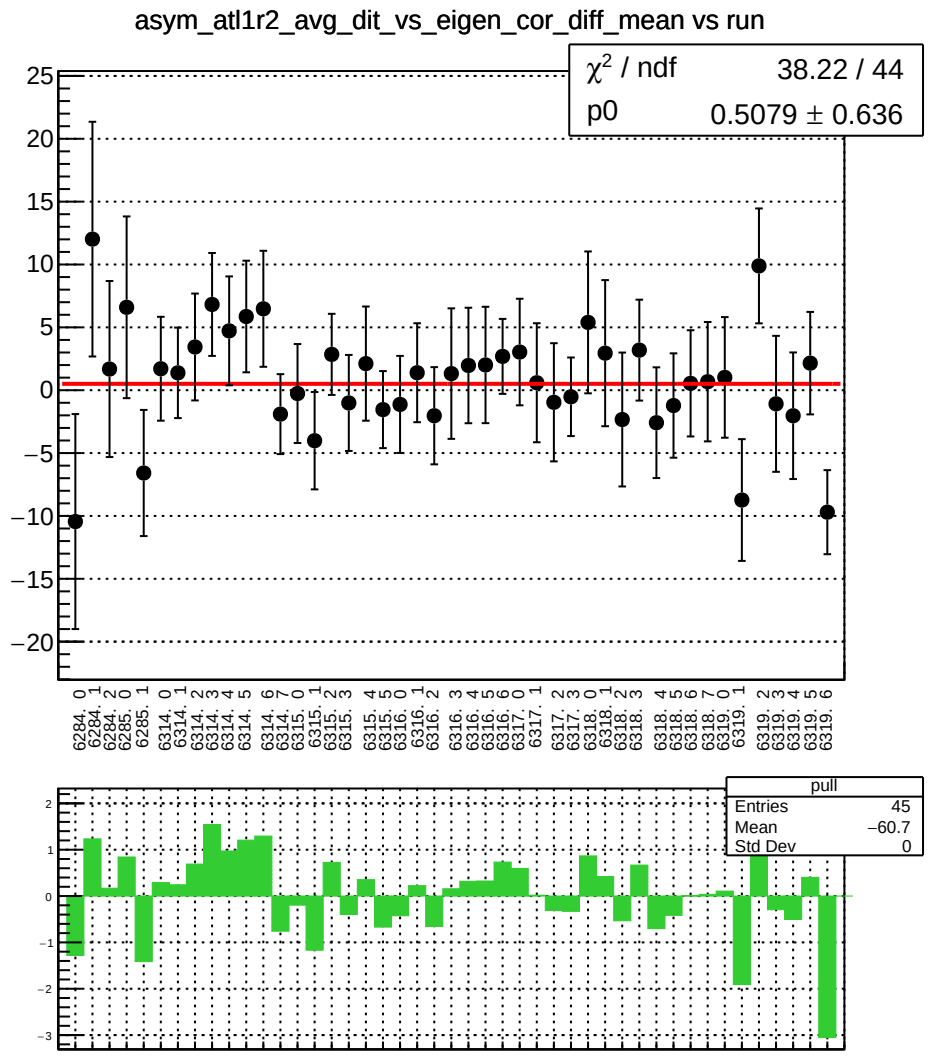
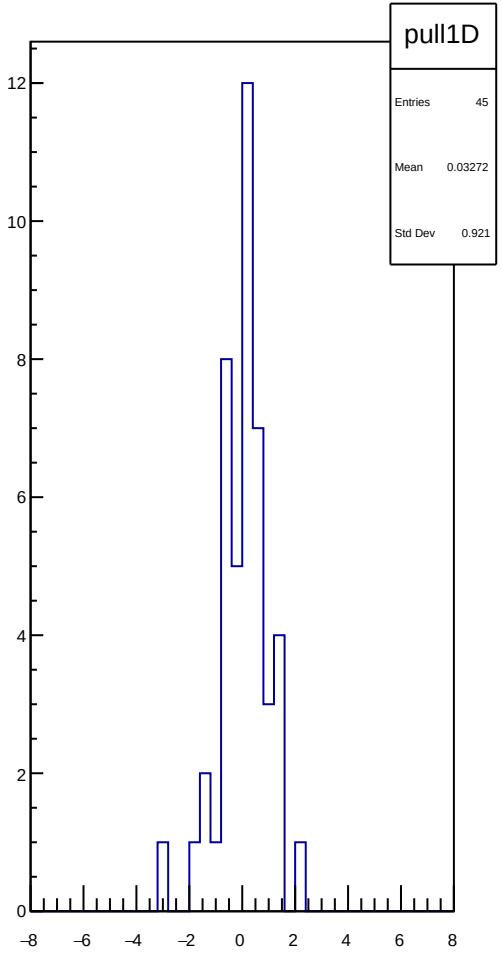
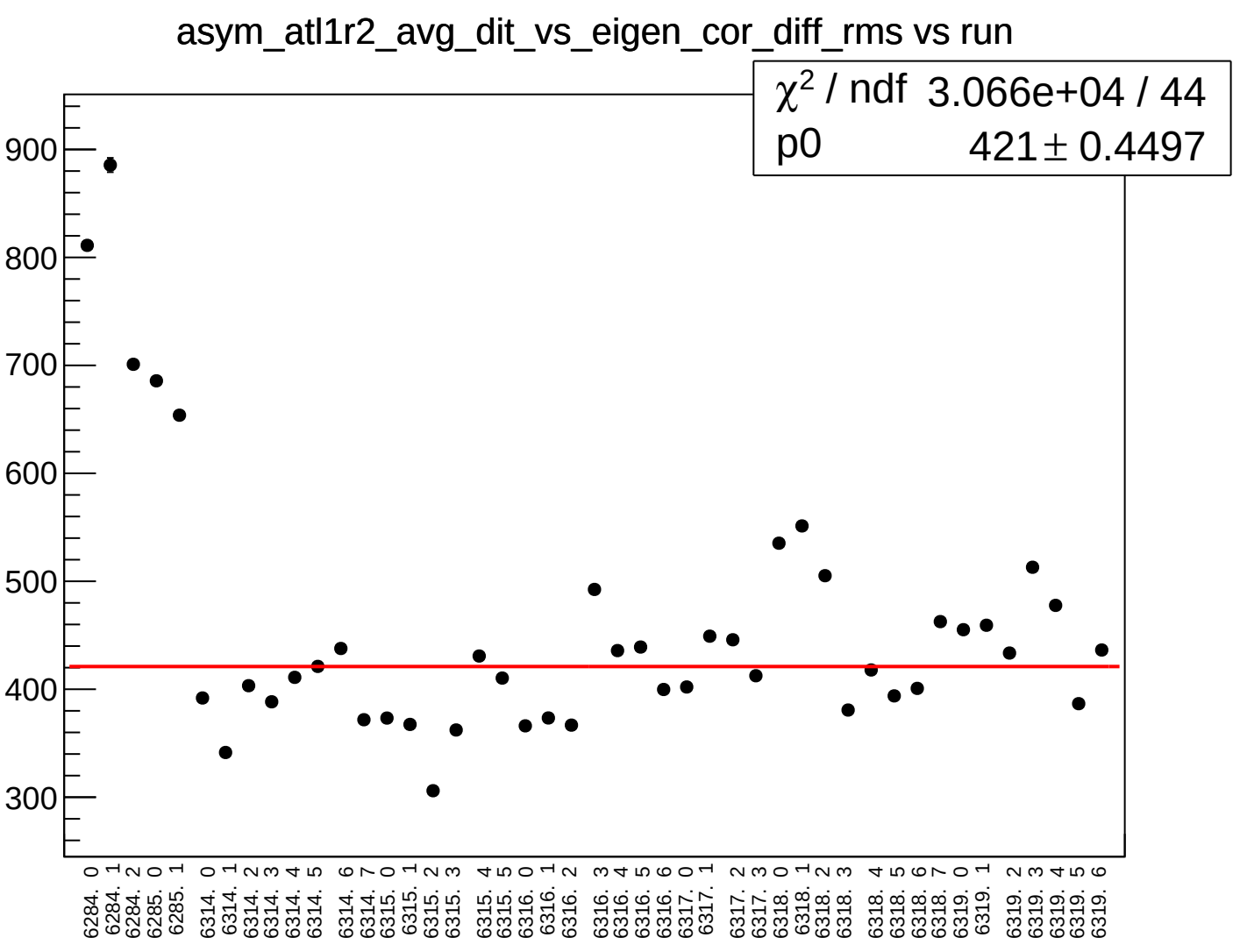
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.5079 ± 0.636
pull
Entries 45
Mean −60.7
Std Dev 0


pull1D
Entries 45
Mean 0.03272
Std Dev 0.921


asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.066e+04 / 44
p0 421 ± 0.4497
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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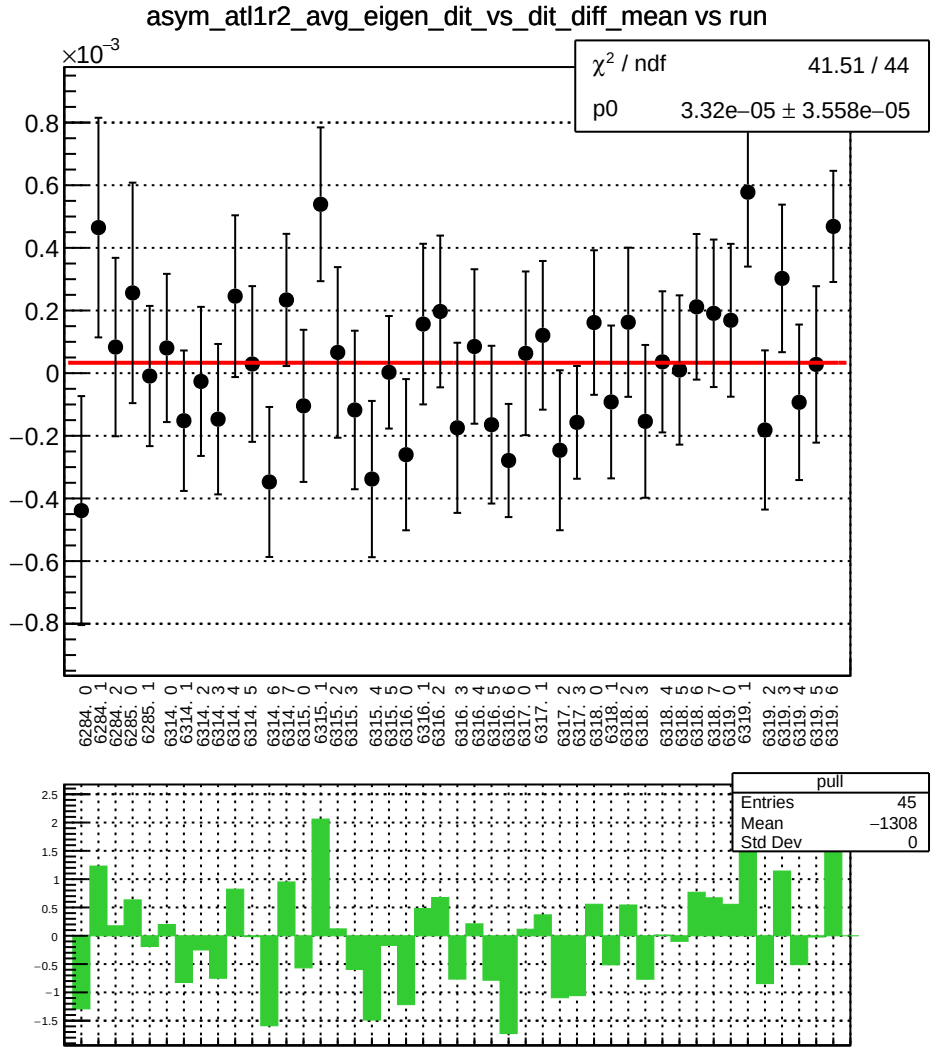
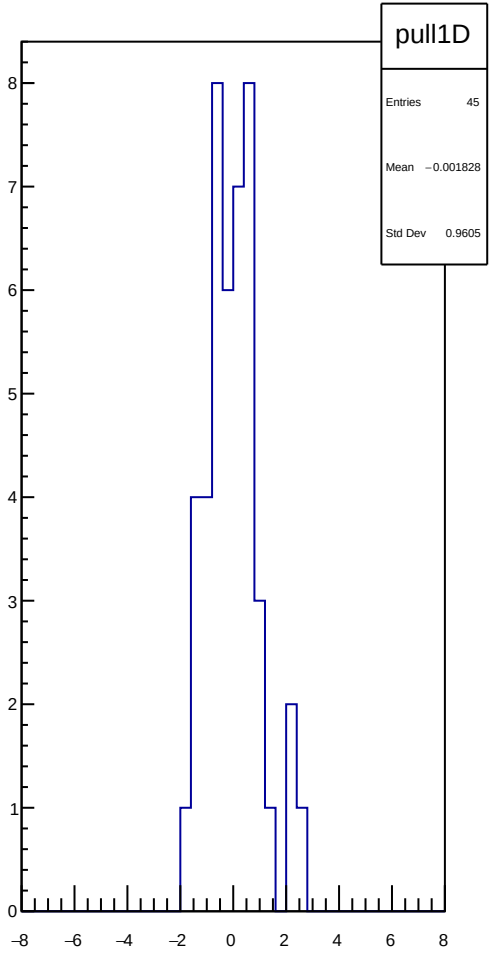
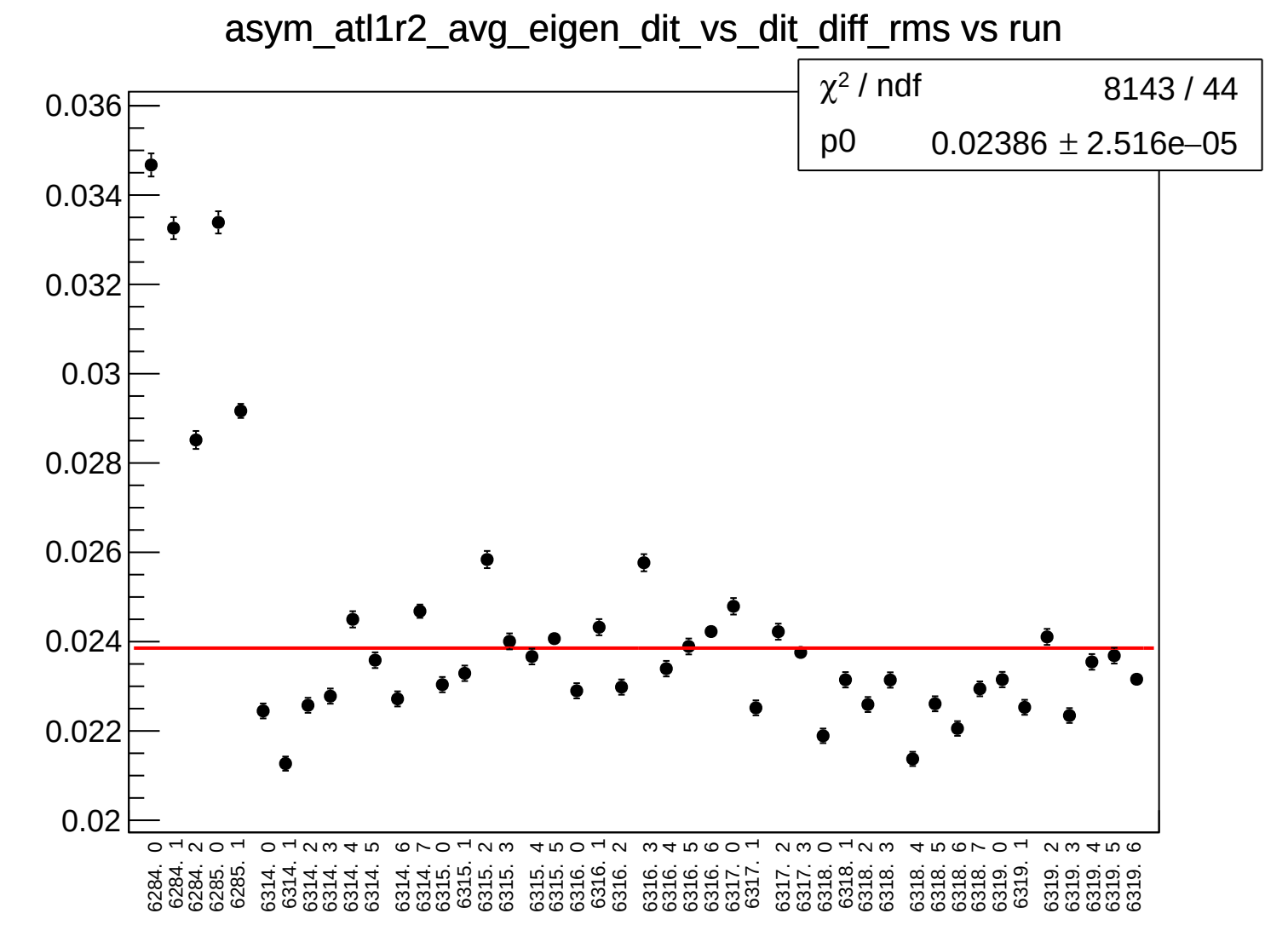
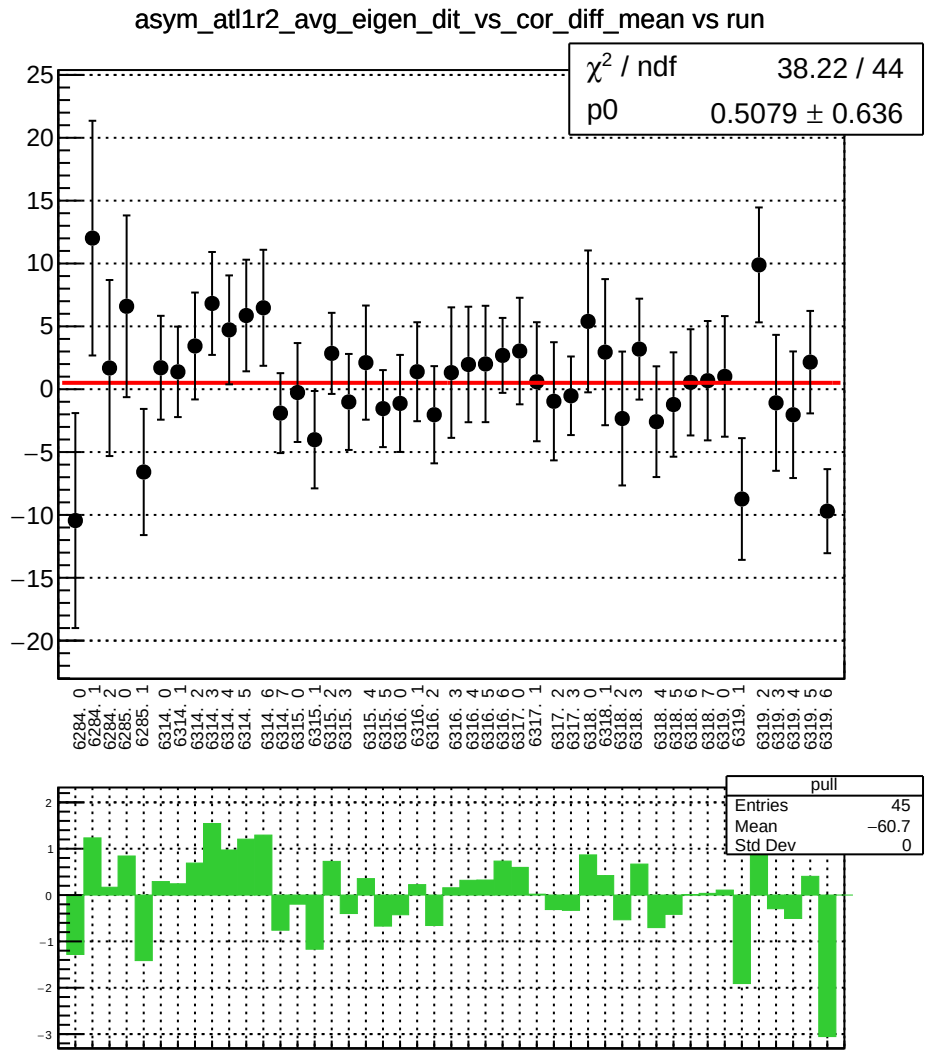
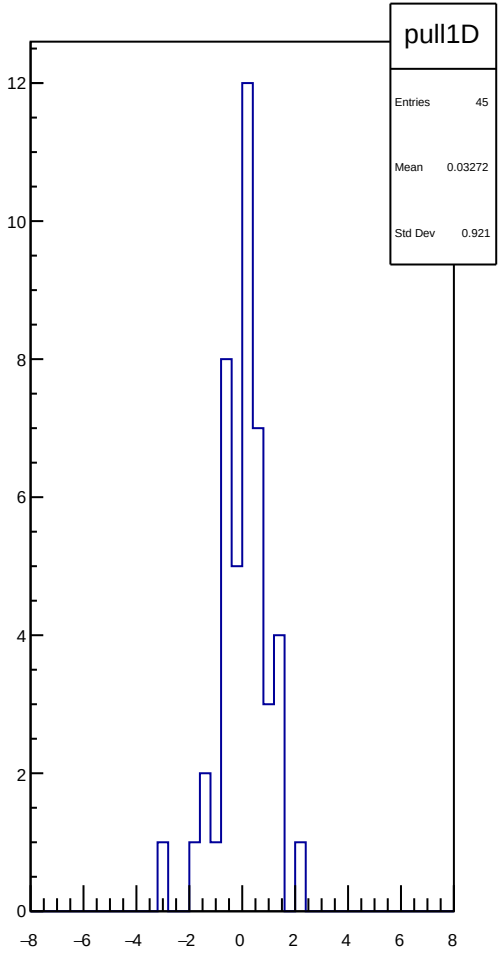
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

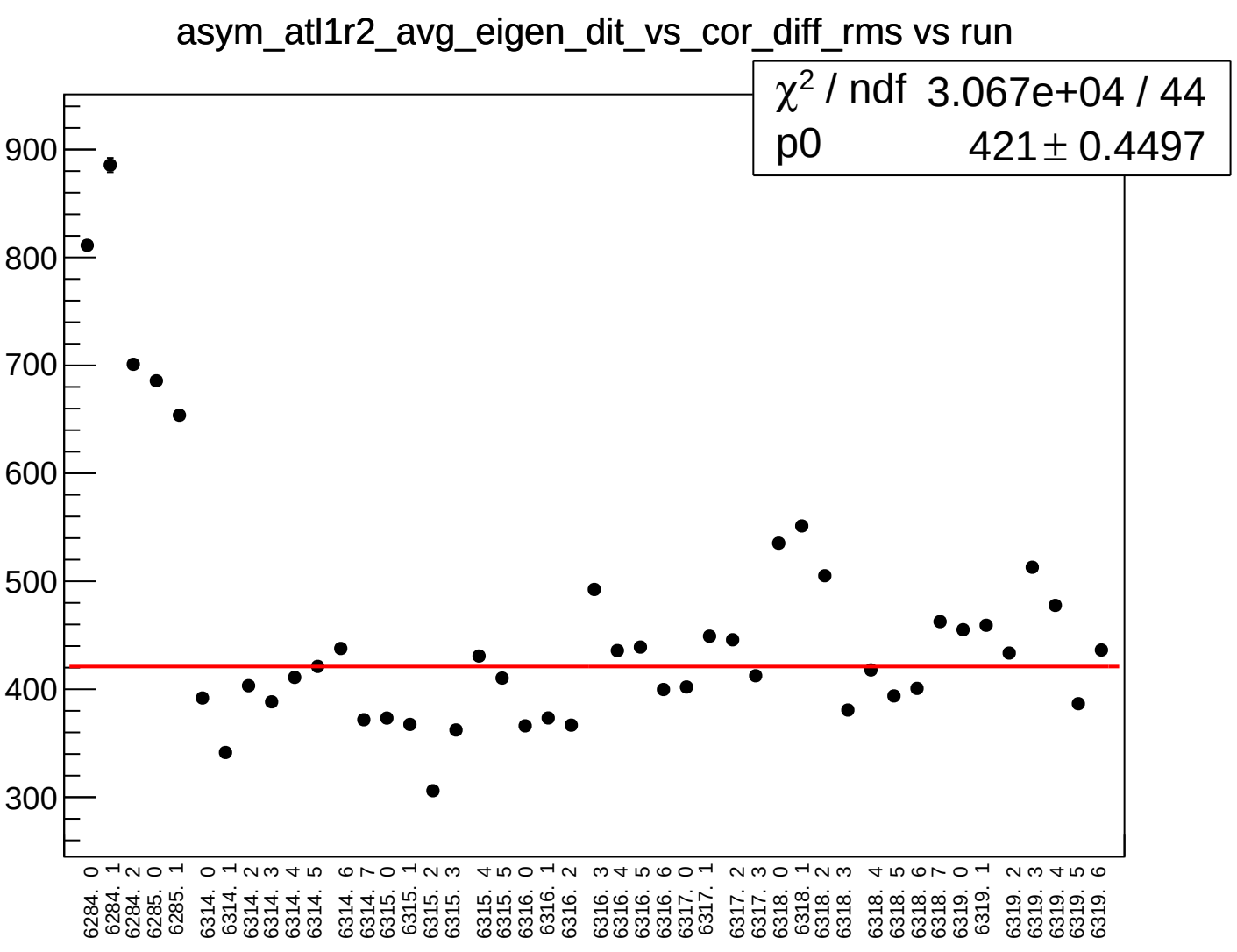

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.51 / 44
p0 3.32e−05 ± 3.558e−05
pull
Entries 45
Mean −1308
Std Dev 0

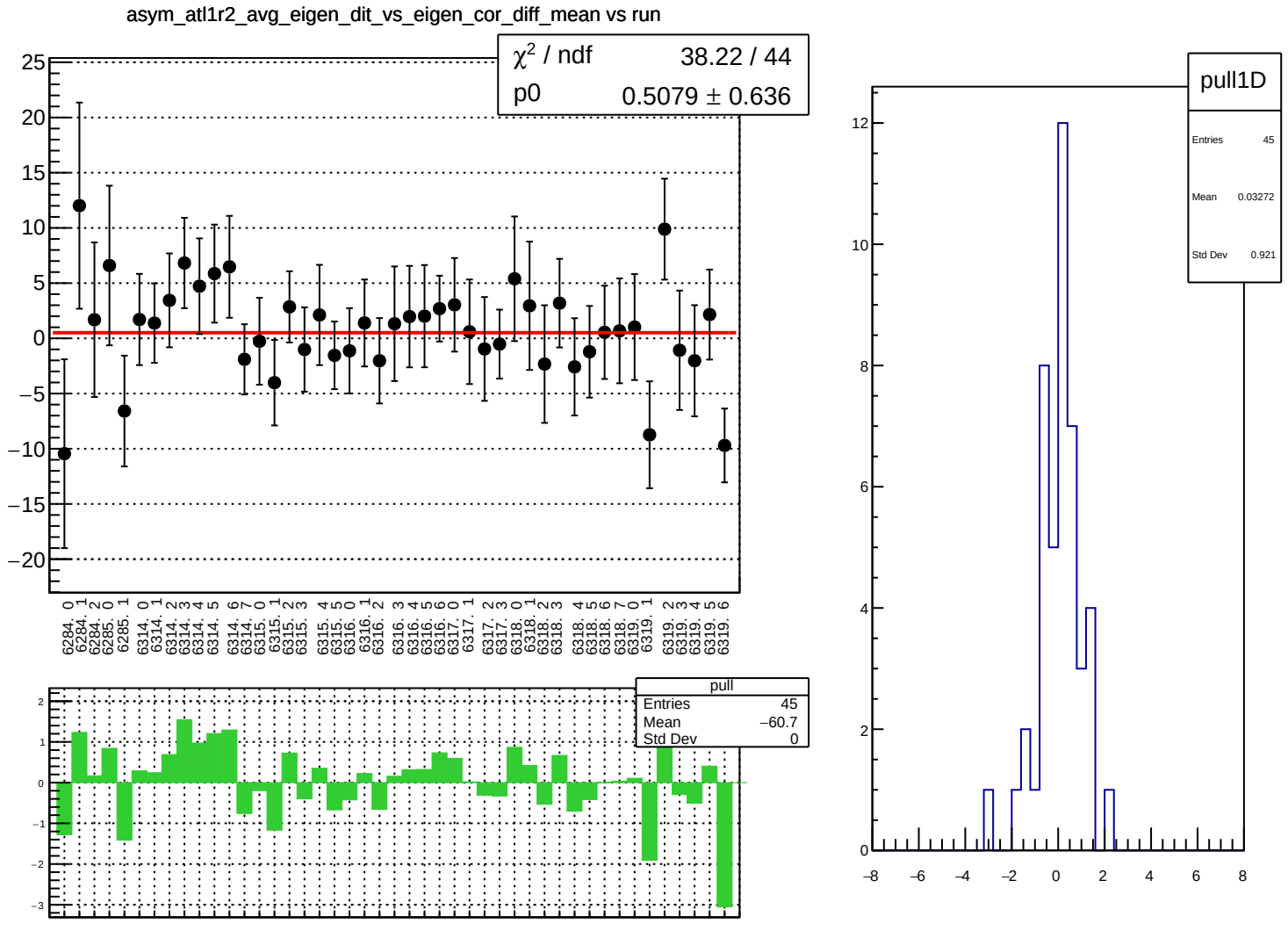

pull1D
Entries 45
Mean −0.001828
Std Dev 0.9605

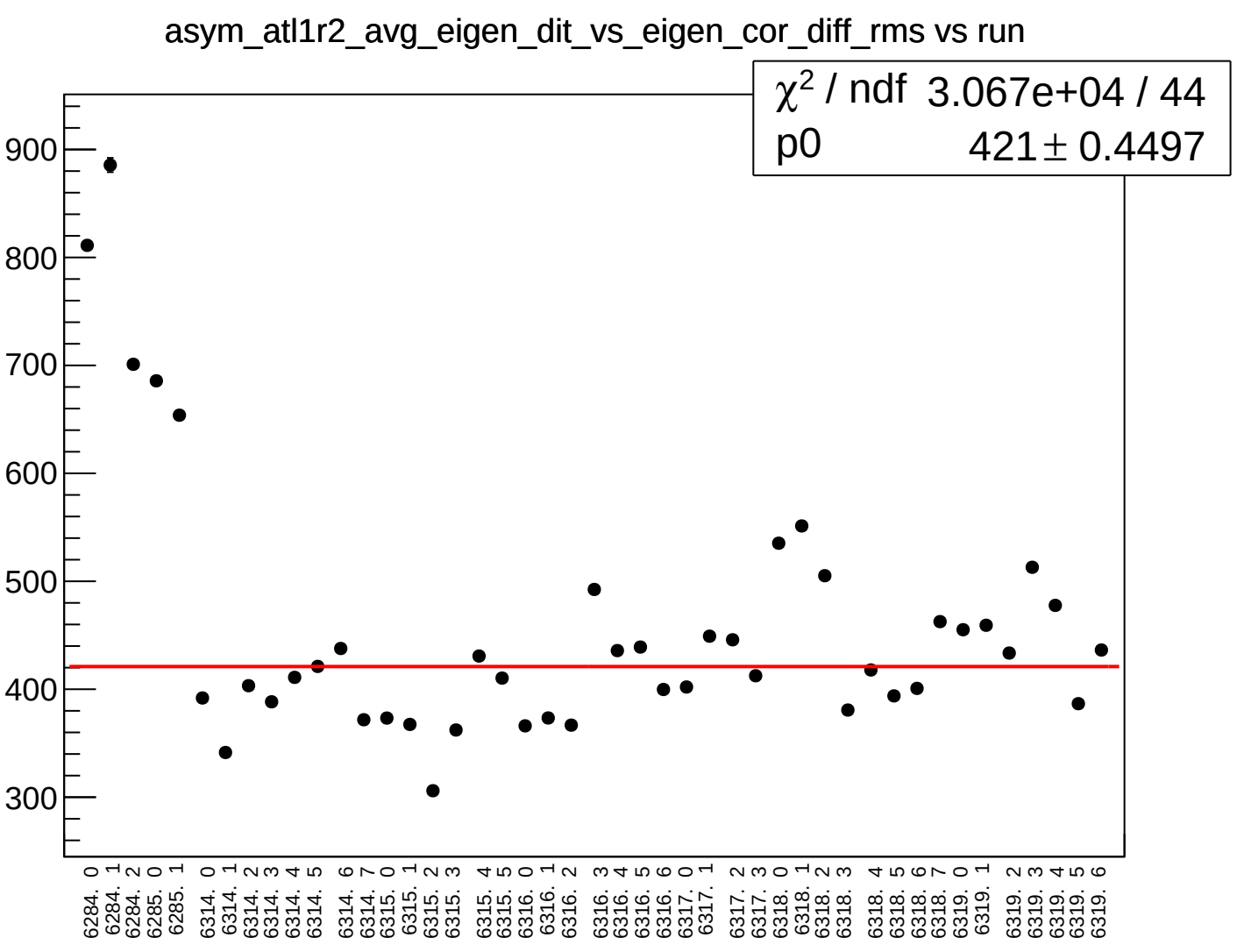

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8143 / 44
p0 0.02386 ± 2.516e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

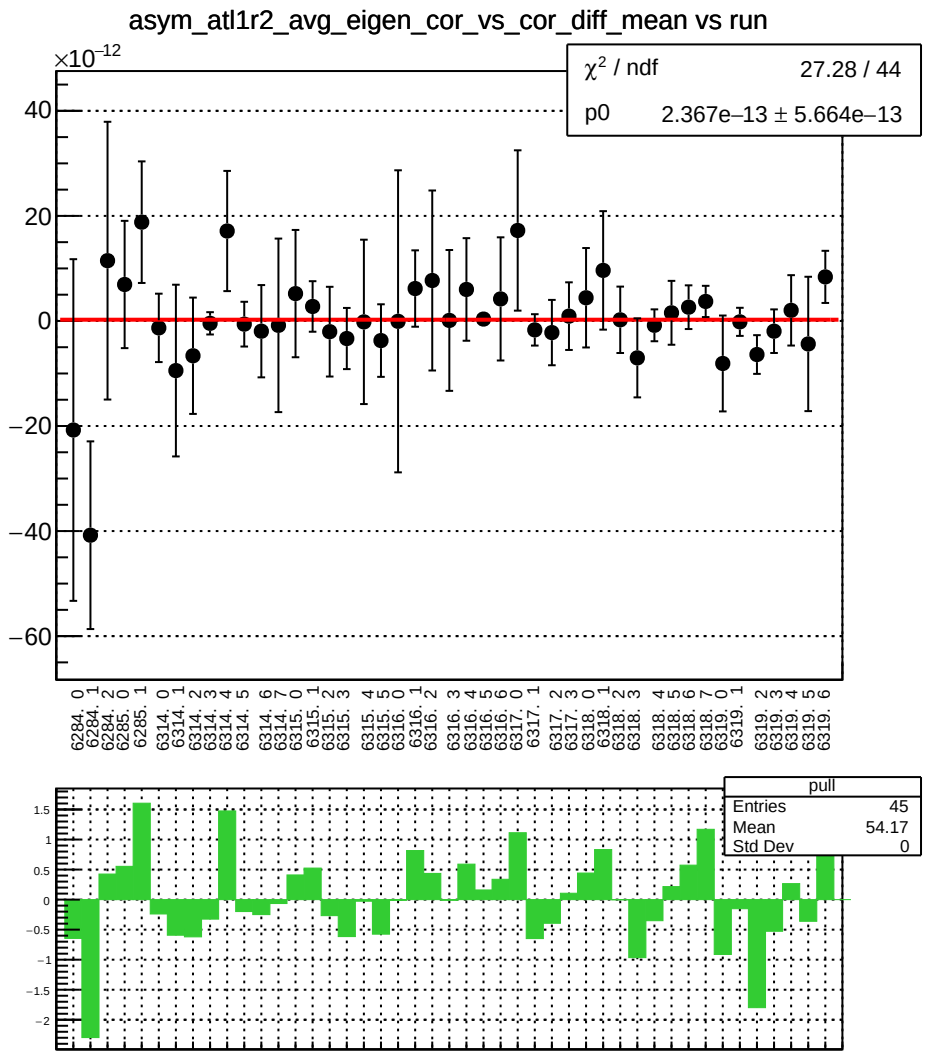

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.5079 ± 0.636
pull
Entries 45
Mean −60.7
Std Dev 0

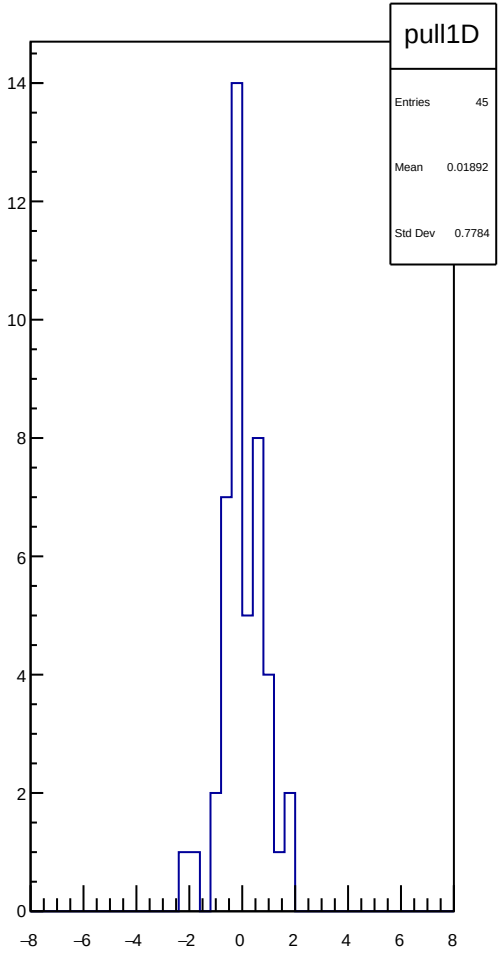

pull1D
Entries 45
Mean 0.03272
Std Dev 0.921

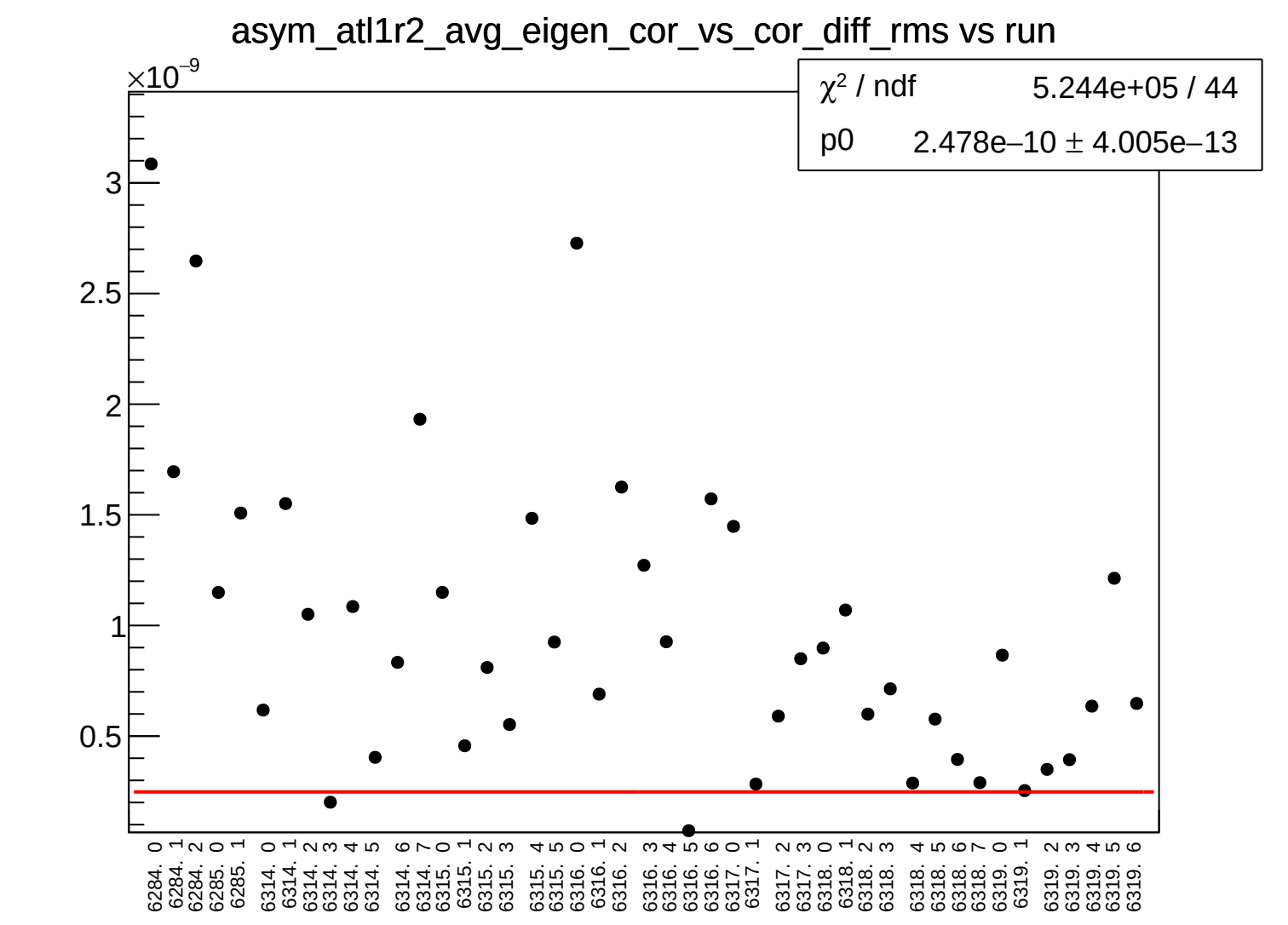

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.067e+04 / 44
p0 421 ± 0.4497
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

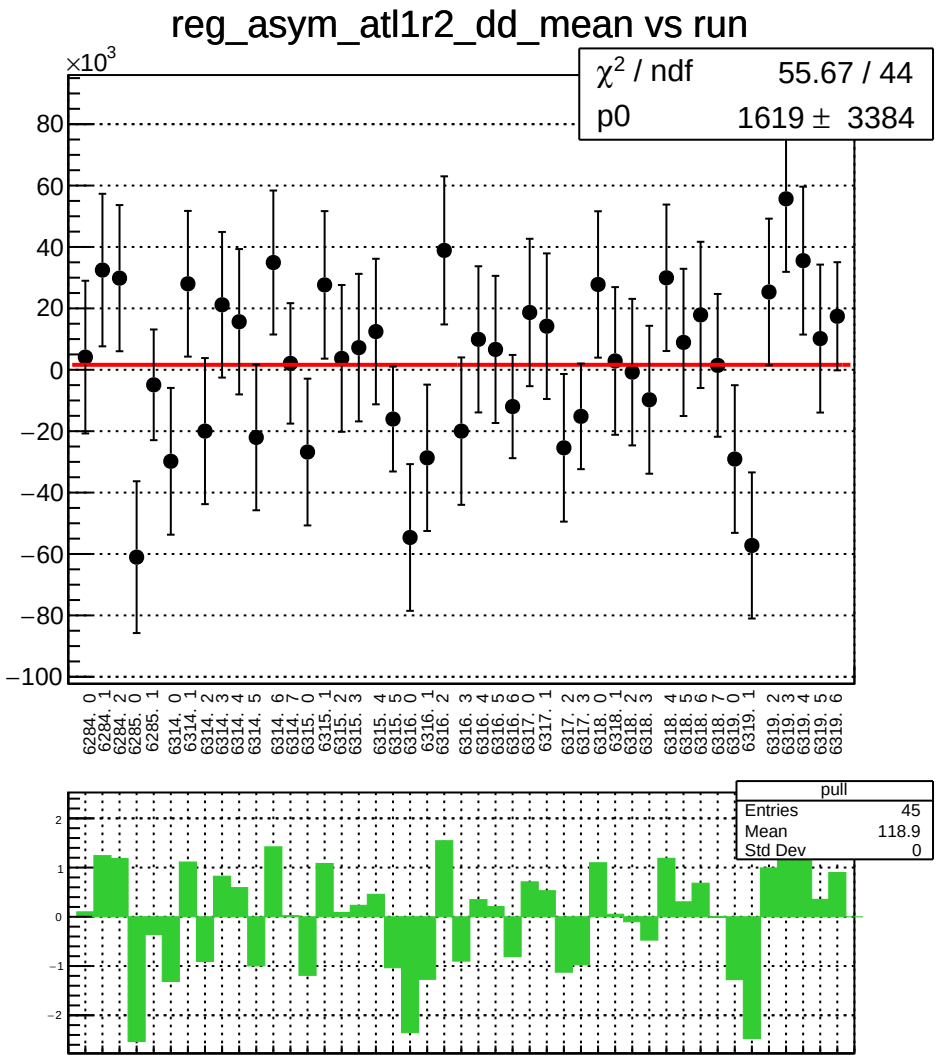

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.5079 ± 0.636
pull
Entries 45
Mean −60.7
Std Dev 0
pull1D
Entries 45
Mean 0.03272
Std Dev 0.921

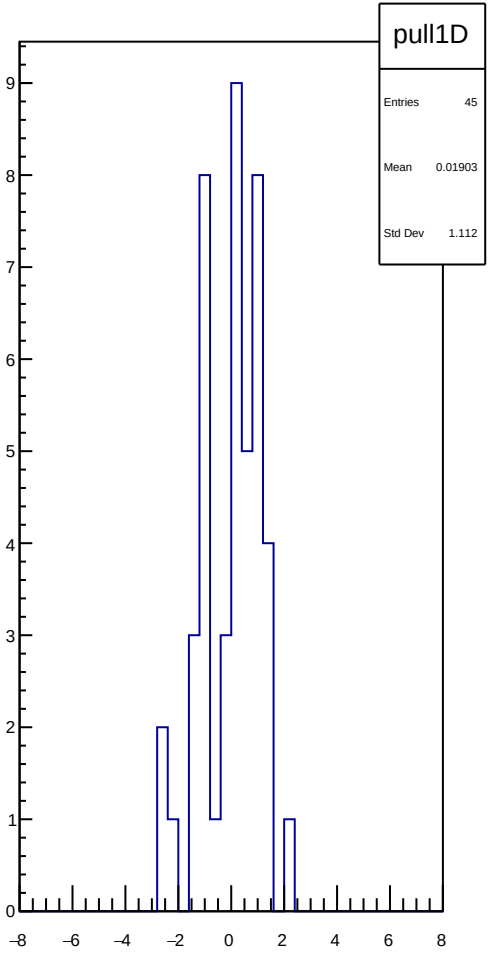

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.067e+04 / 44
p0 421 ± 0.4497
900
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

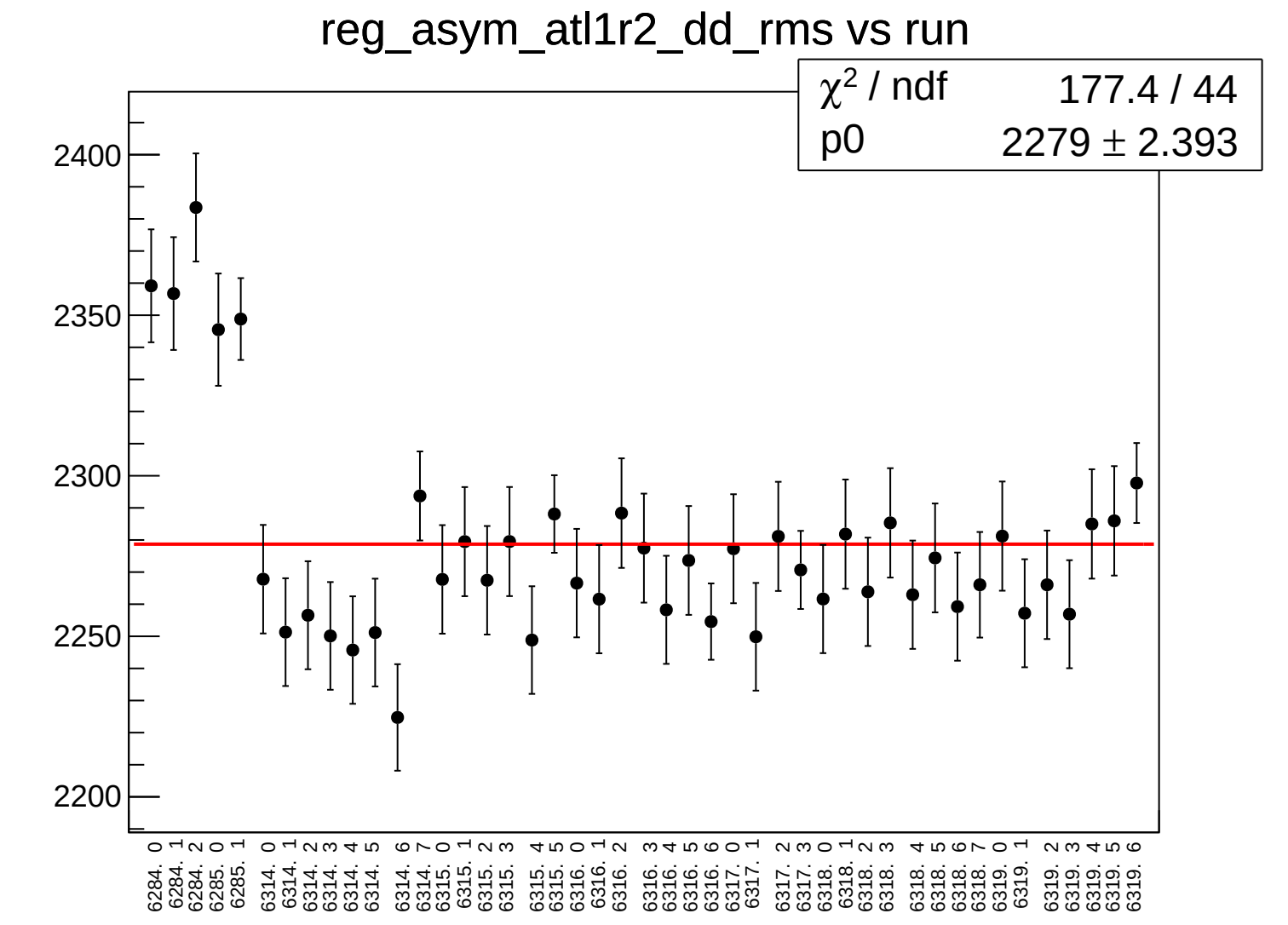

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.28 / 44
p0 2.367e−13 ± 5.664e−13
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 54.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

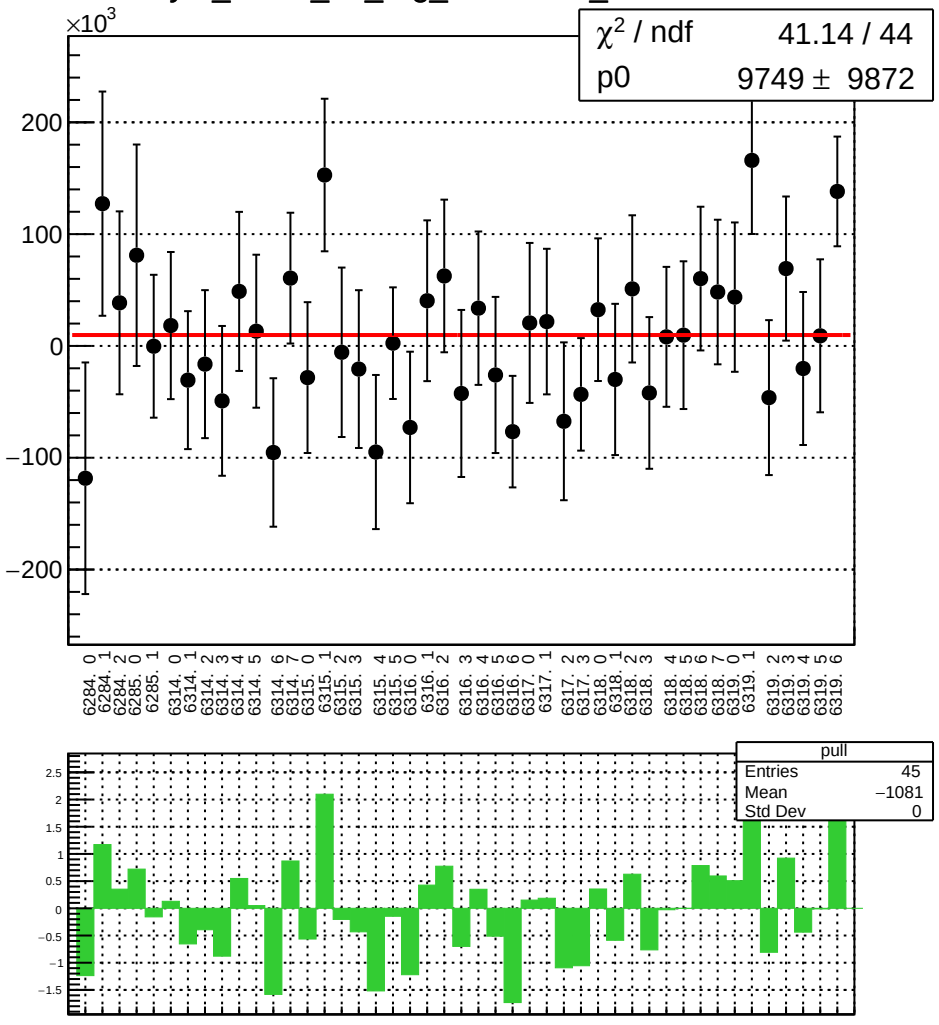

pull1D
Entries 45
Mean 0.01892
Std Dev 0.7784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

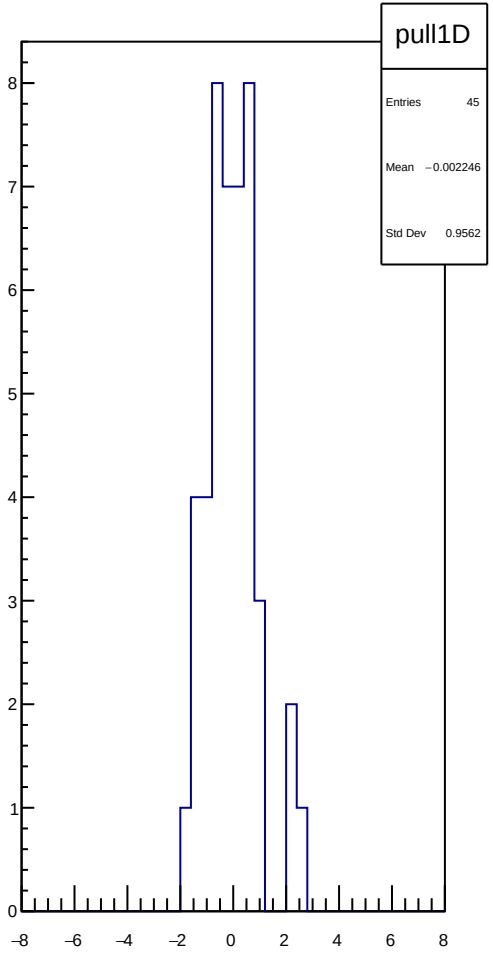

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.244e+05 / 44
p0 2.478e−10 ± 4.005e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

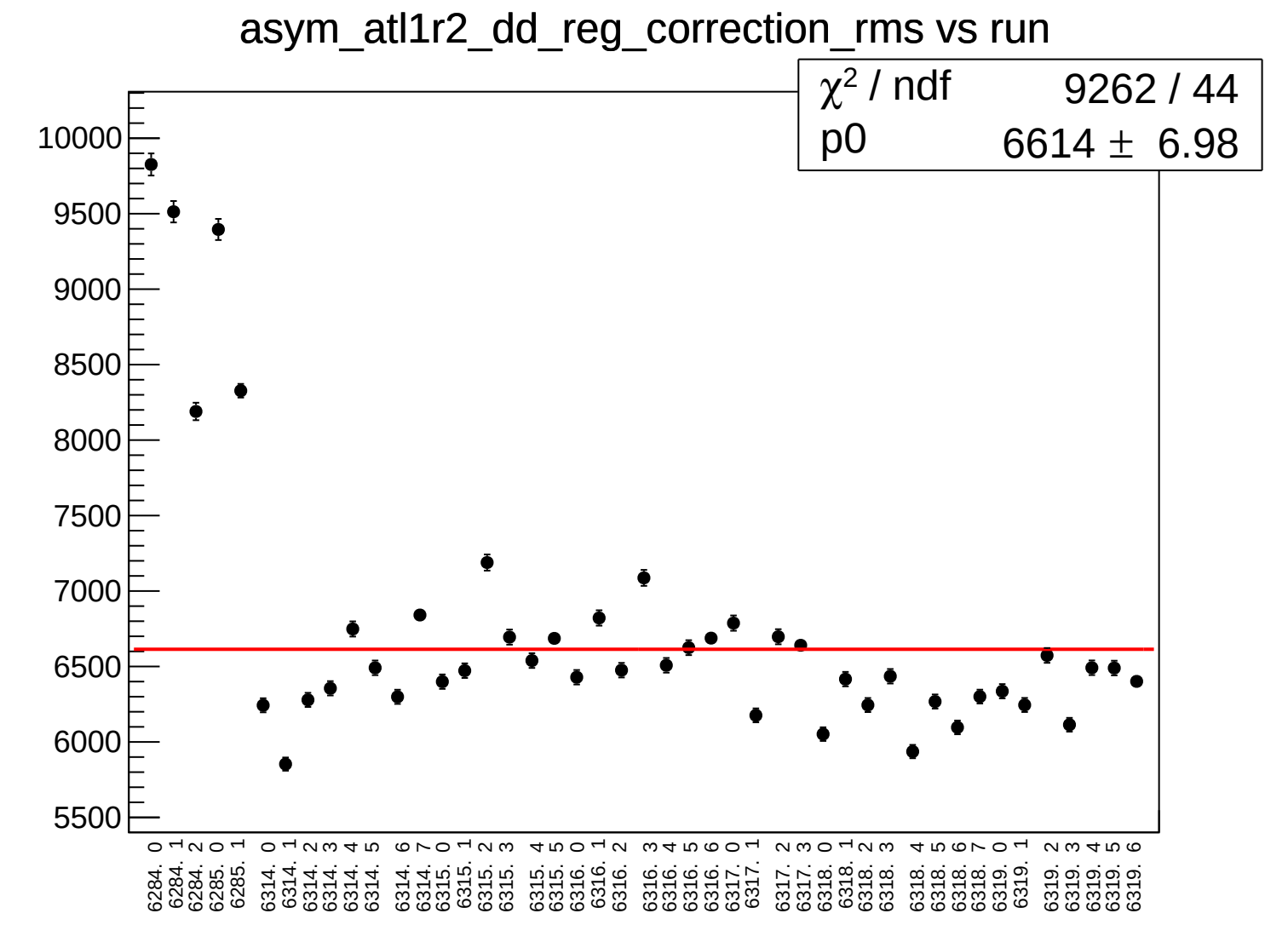

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 55.67 / 44
p0 1619 ± 3384
×10³
pull
Entries 45
Mean 118.9
Std Dev 0

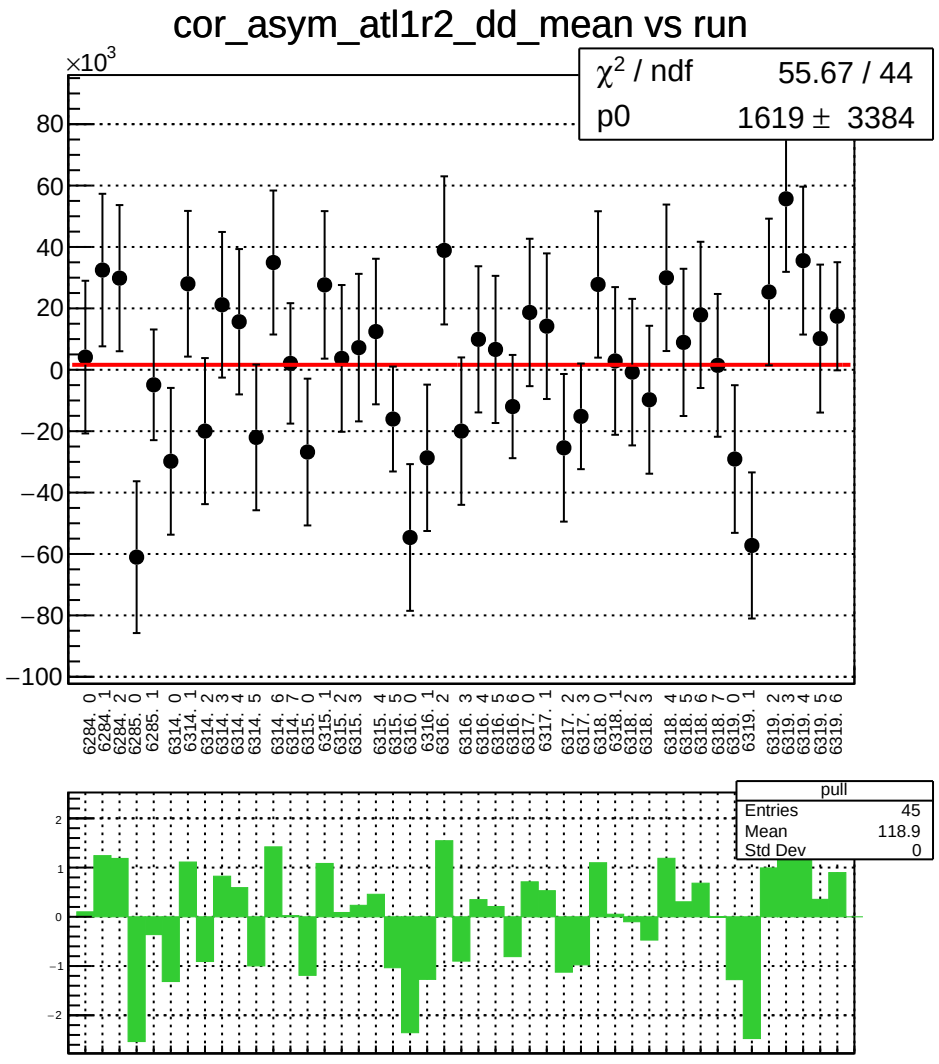

pull1D
Entries 45
Mean 0.01903
Std Dev 1.112

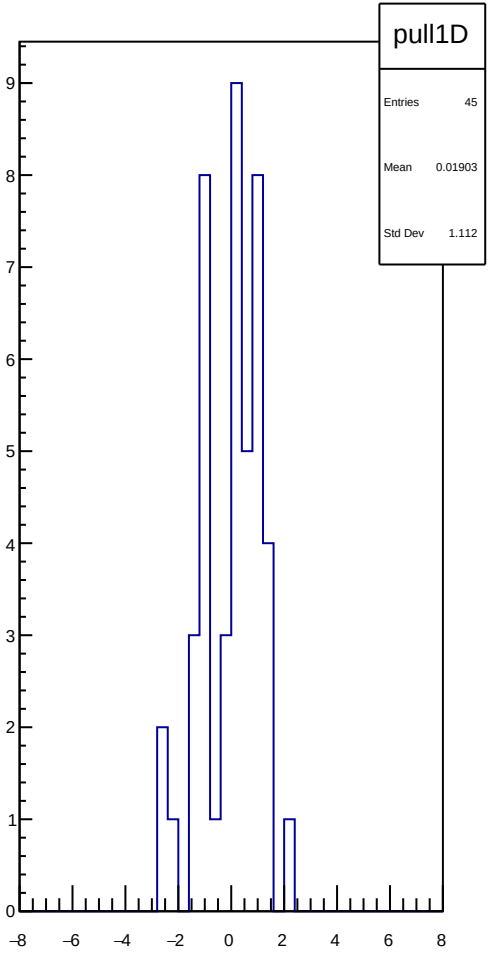

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 177.4 / 44
p0 2279 ± 2.393
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

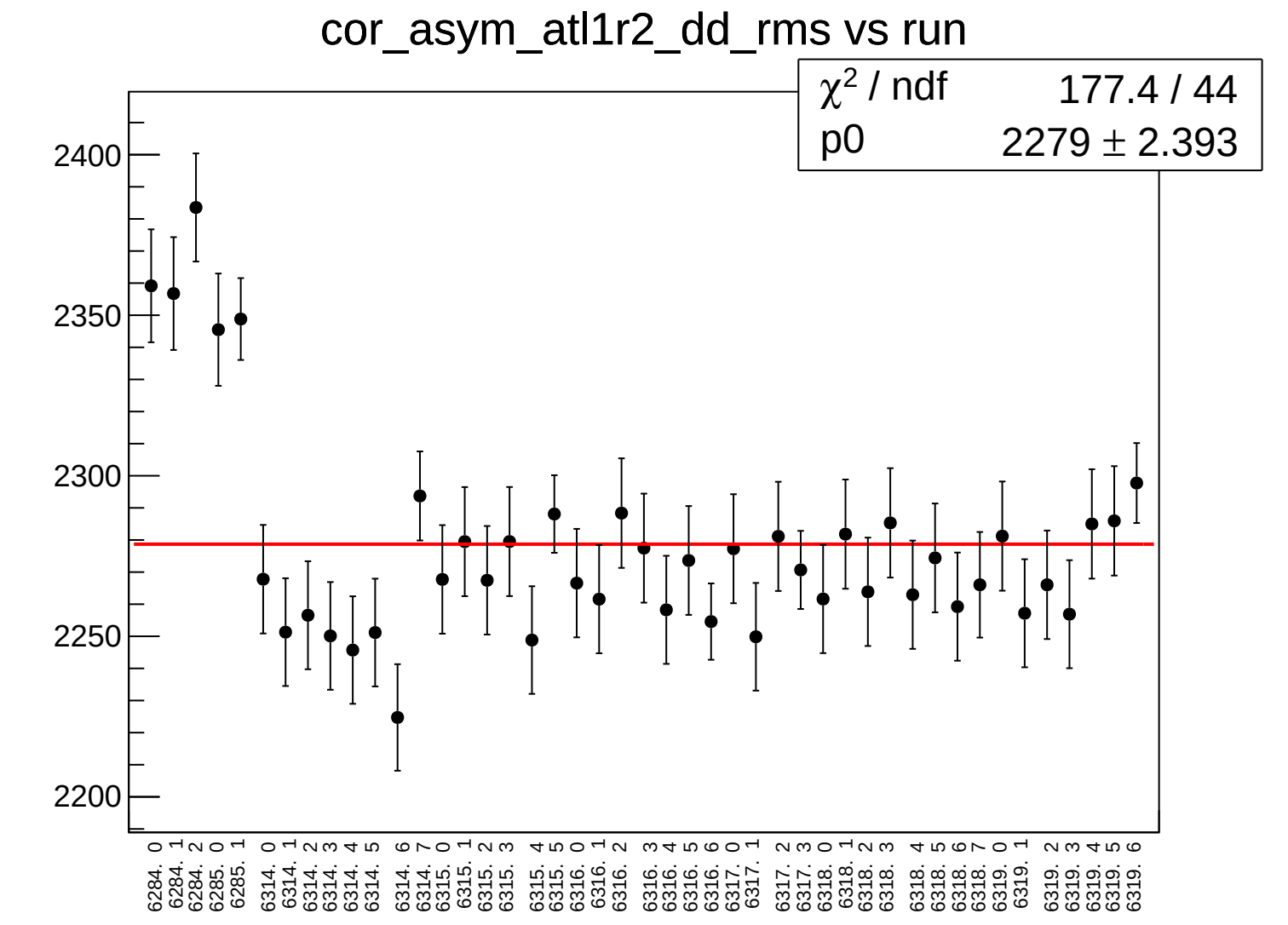

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.14 / 44
p0 9749 ± 9872
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1081
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

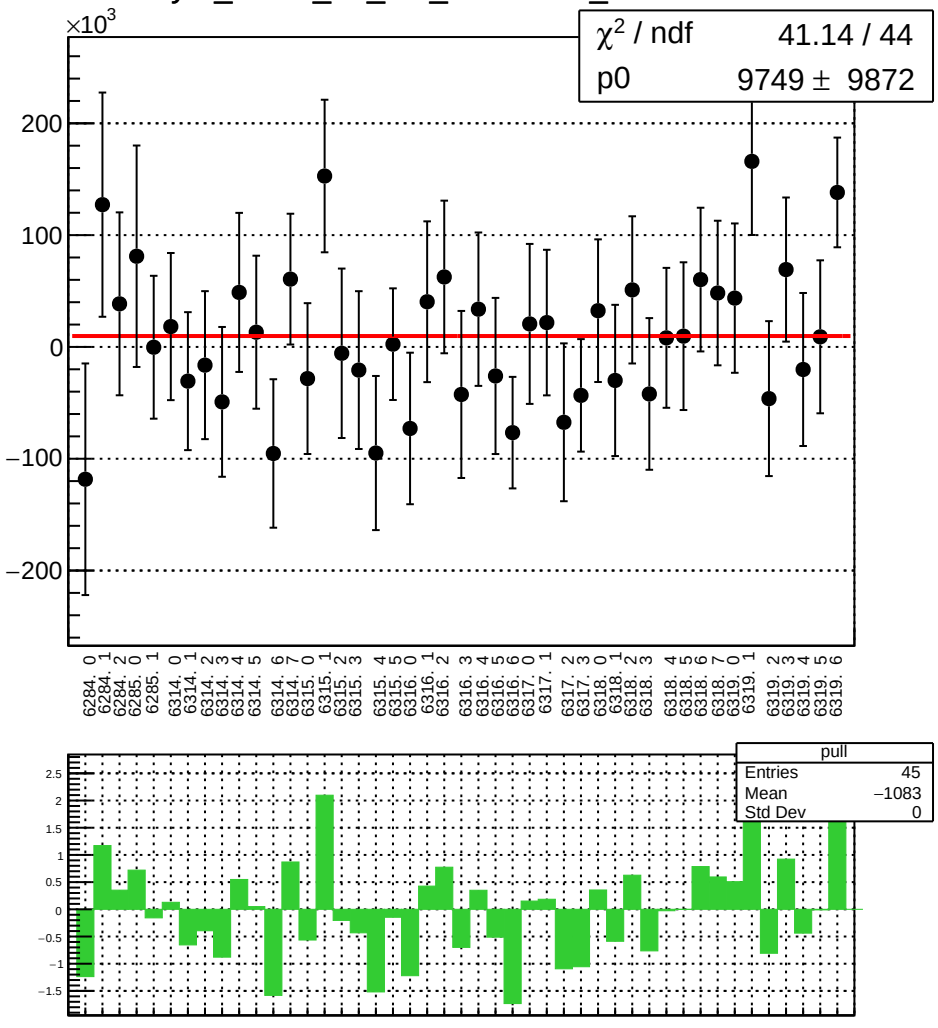

pull1D
Entries 45
Mean −0.002246
Std Dev 0.9562
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

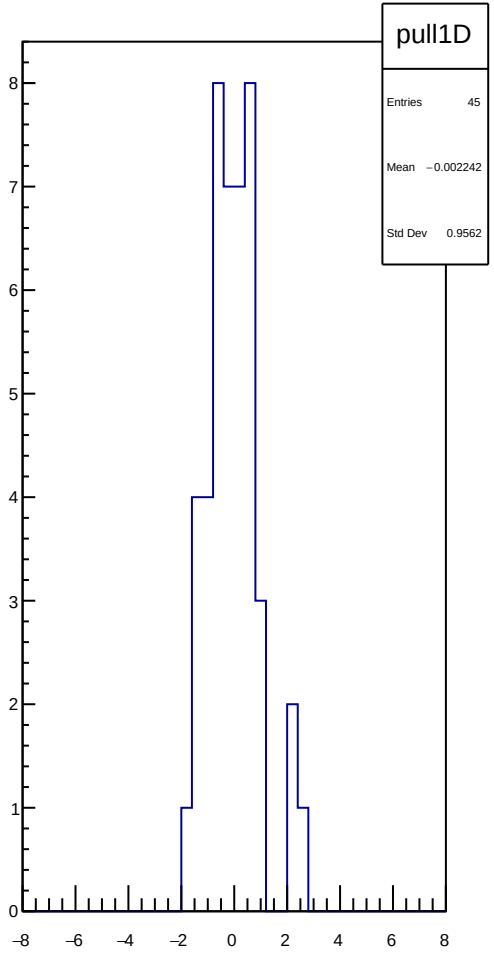

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 9262 / 44
p0 6614 ± 6.98
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

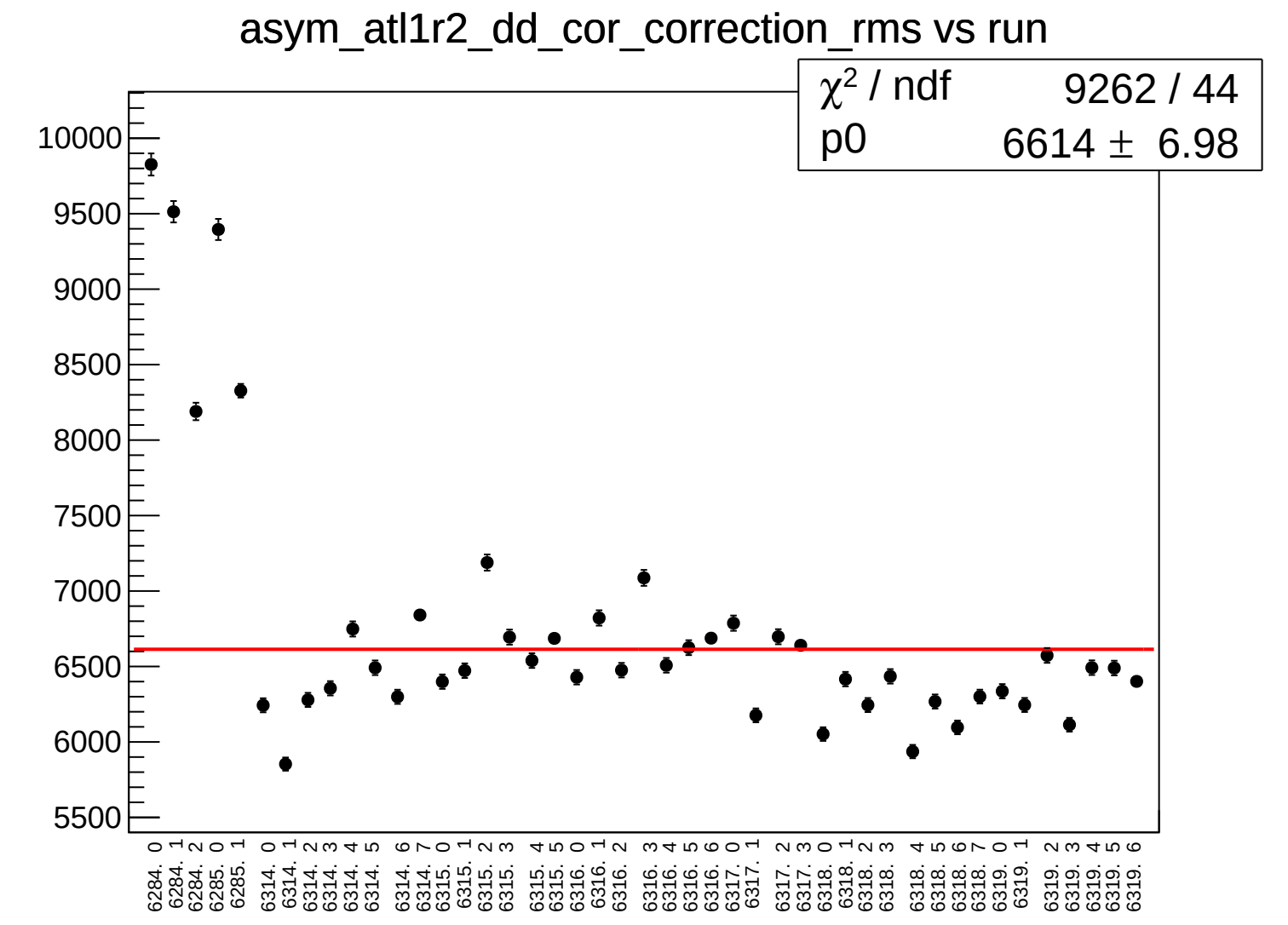

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 55.67 / 44
p0 1619 ± 3384
×10³
pull
Entries 45
Mean 118.9
Std Dev 0

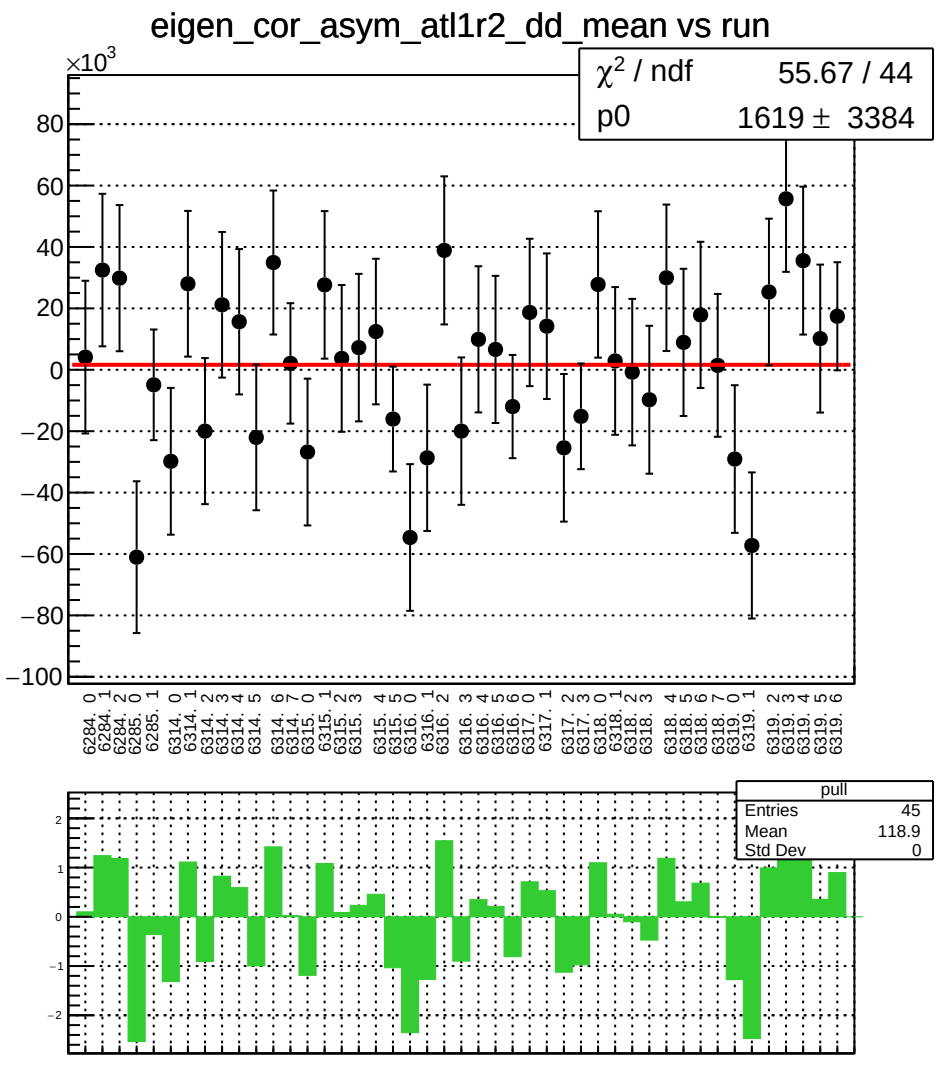

pull1D
Entries 45
Mean 0.01903
Std Dev 1.112

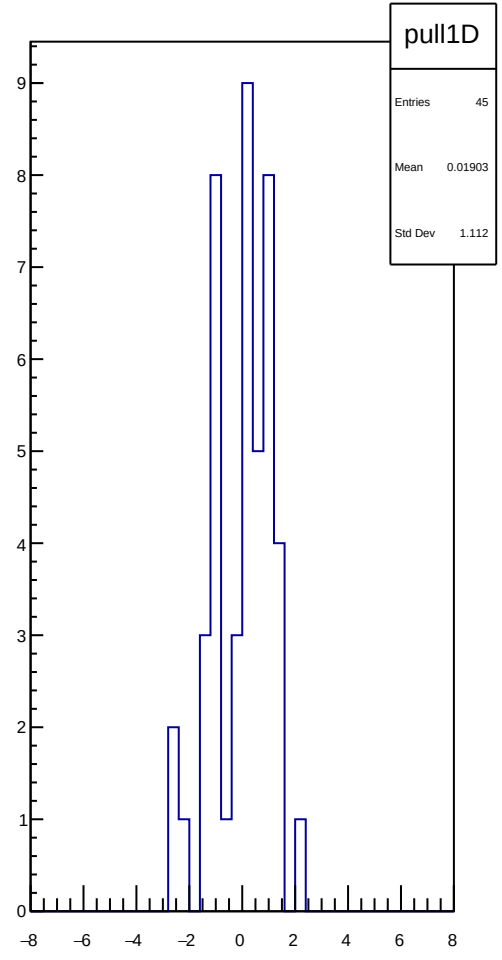

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 177.4 / 44
p0 2279 ± 2.393
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

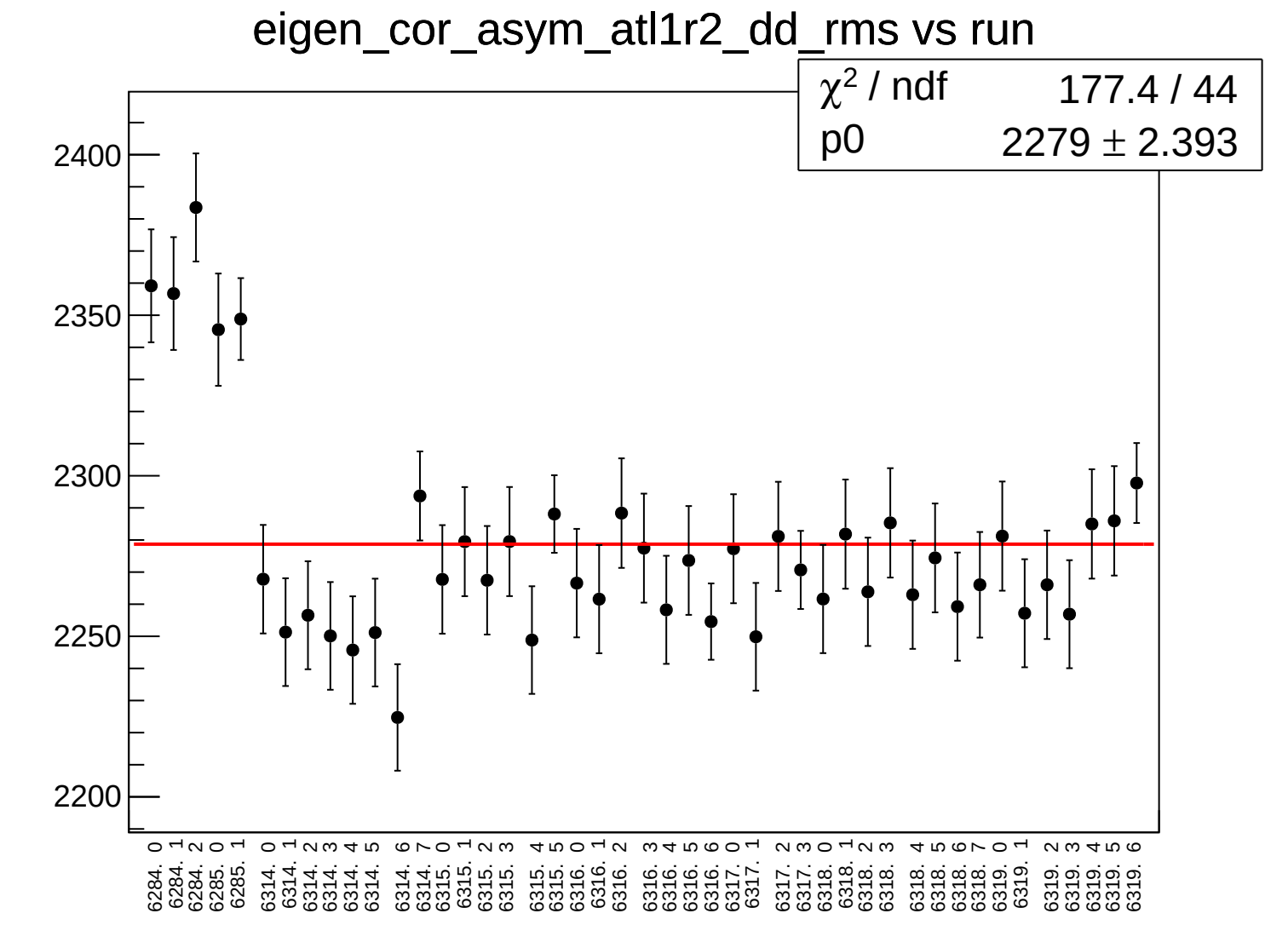

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.14 / 44
p0 9749 ± 9872
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1083
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

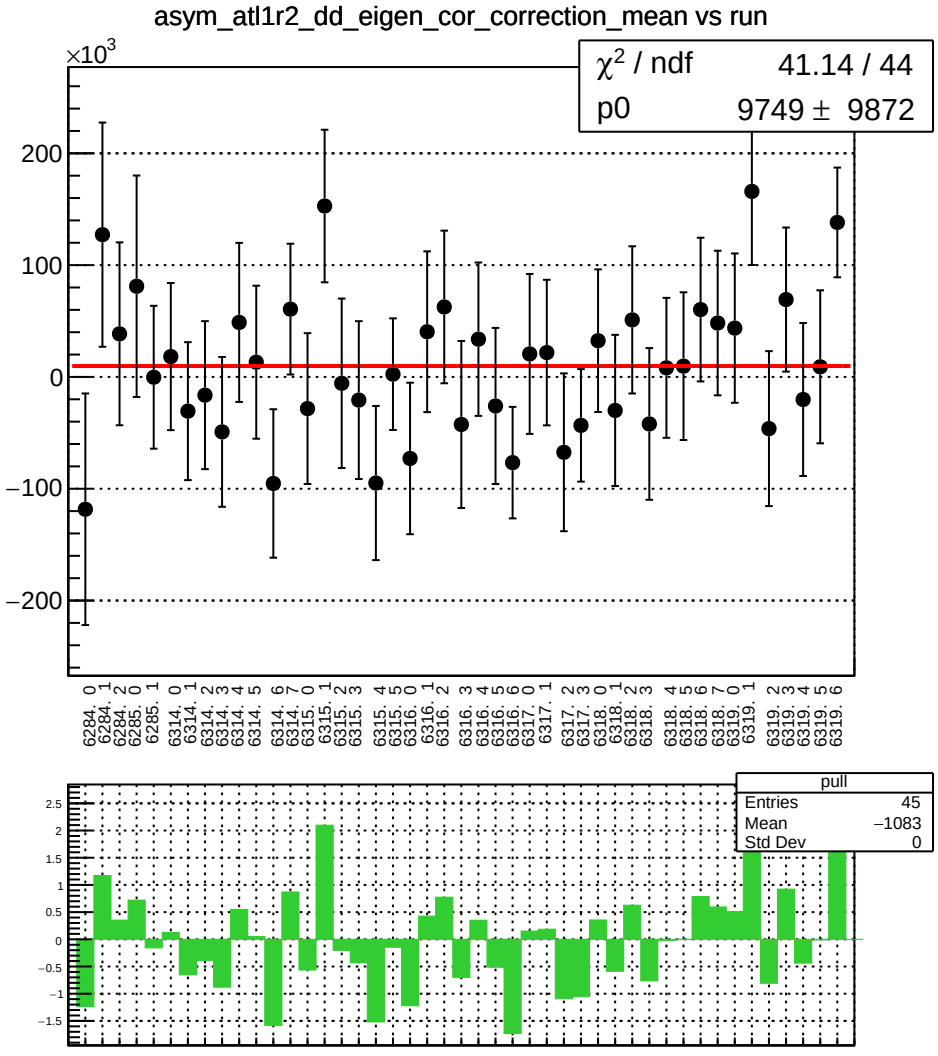

pull1D
Entries 45
Mean −0.002242
Std Dev 0.9562
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

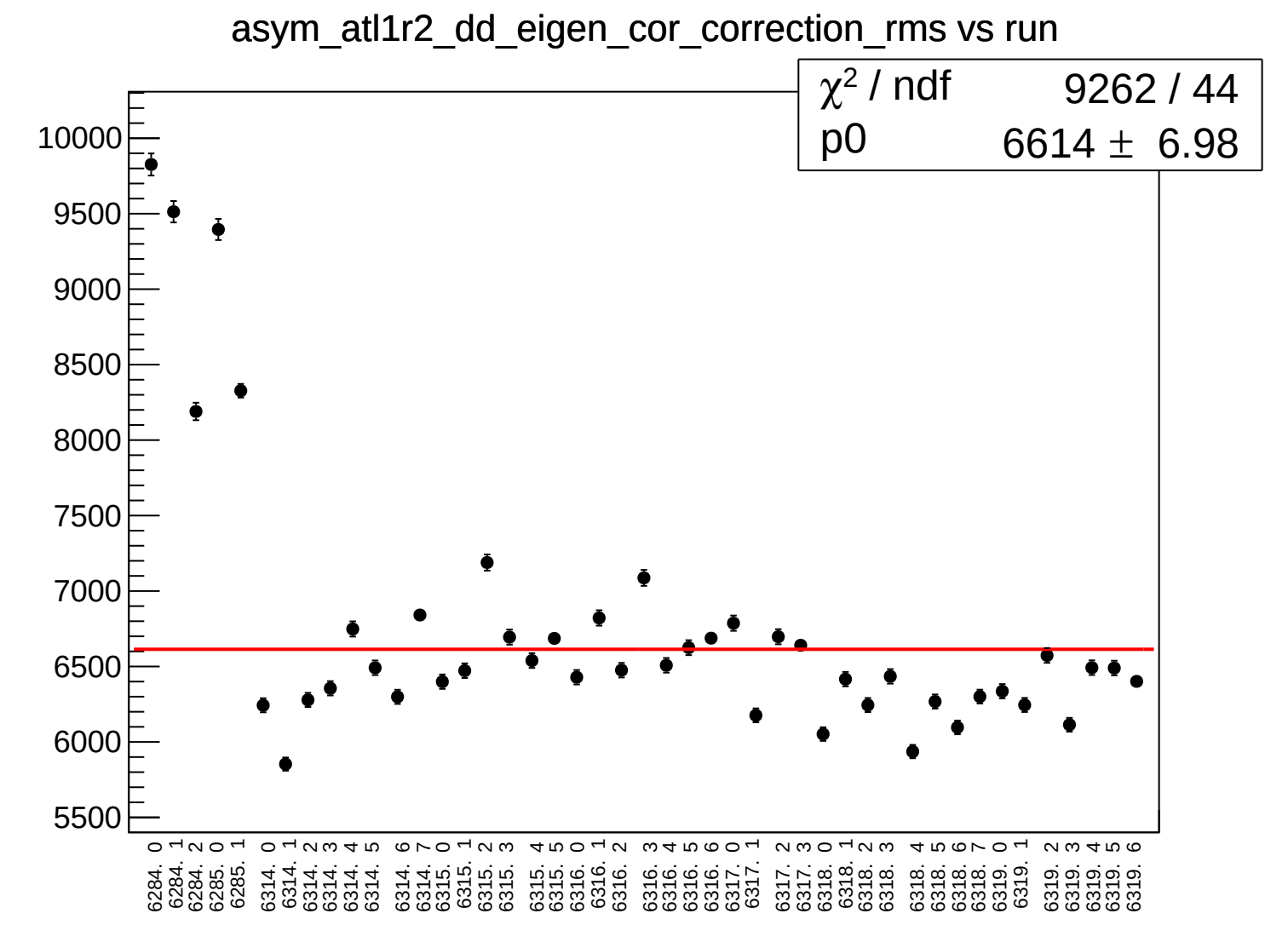

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 9262 / 44
p0 6614 ± 6.98
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 55.67 / 44
p0 1619 ± 3384
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 118.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01903
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 177.4 / 44
p0 2279 ± 2.393
2400
2350
2300
2250
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.14 / 44
p0 9749 ± 9872
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1083
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.002242
Std Dev 0.9562
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9262 / 44
p0 6614 ± 6.98
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
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6316. 0
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6316. 2
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6318. 1
6318. 2
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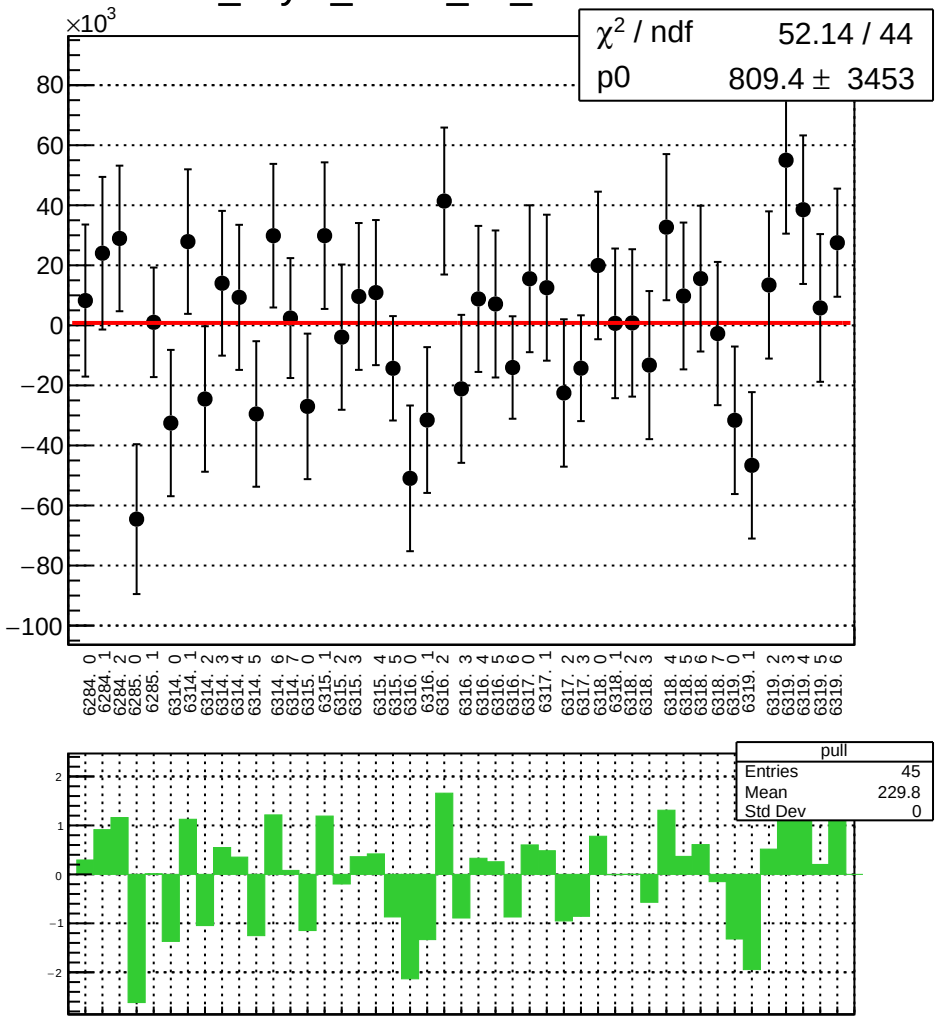
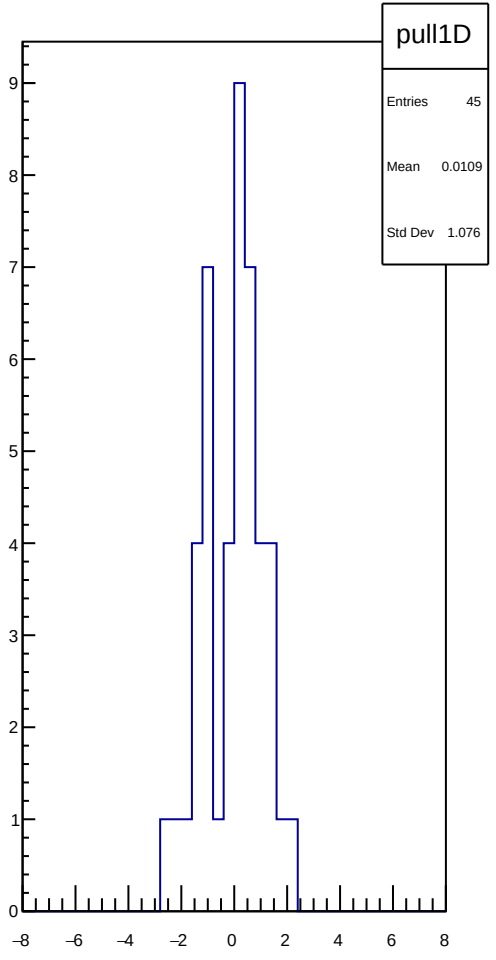
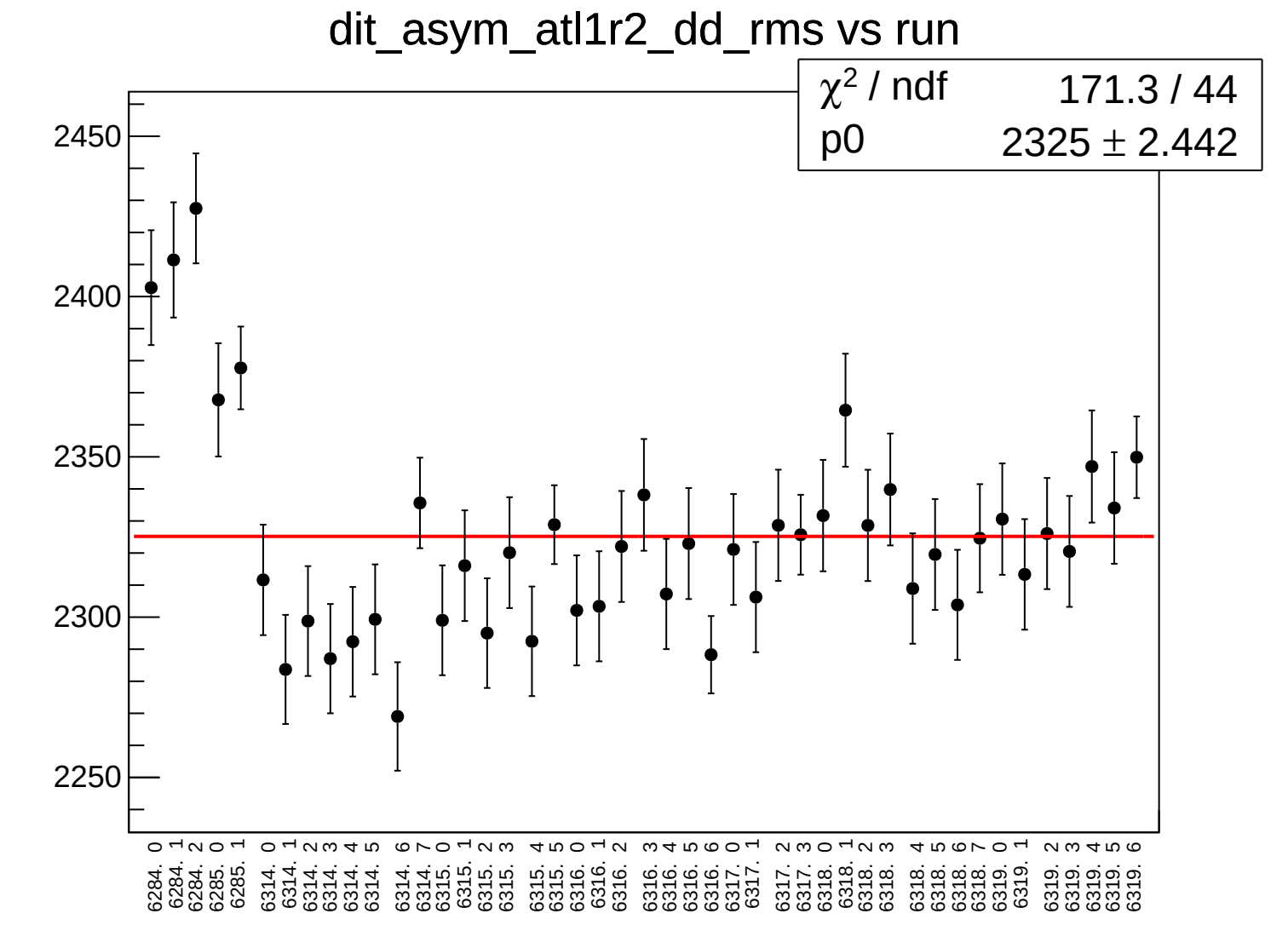
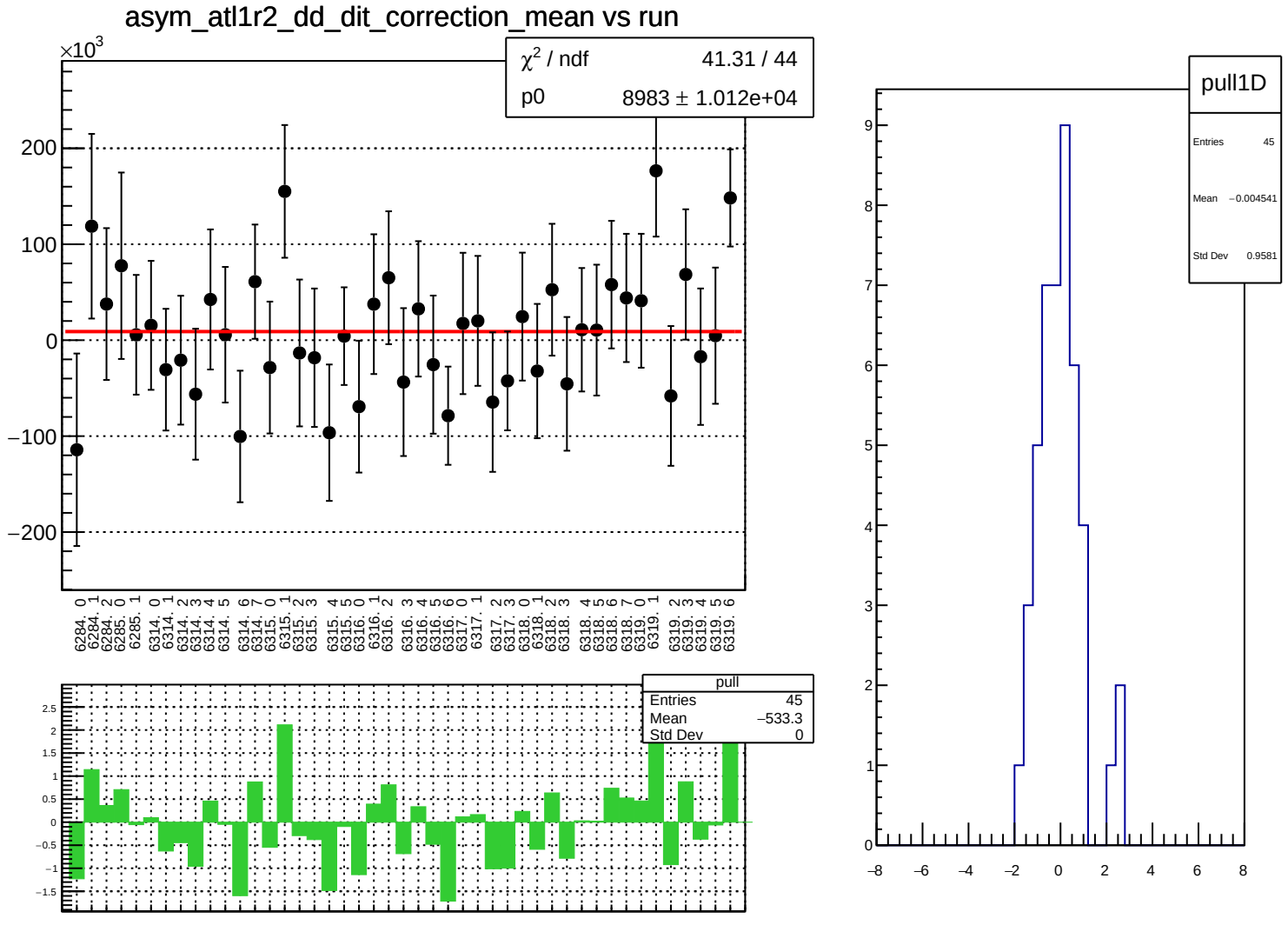
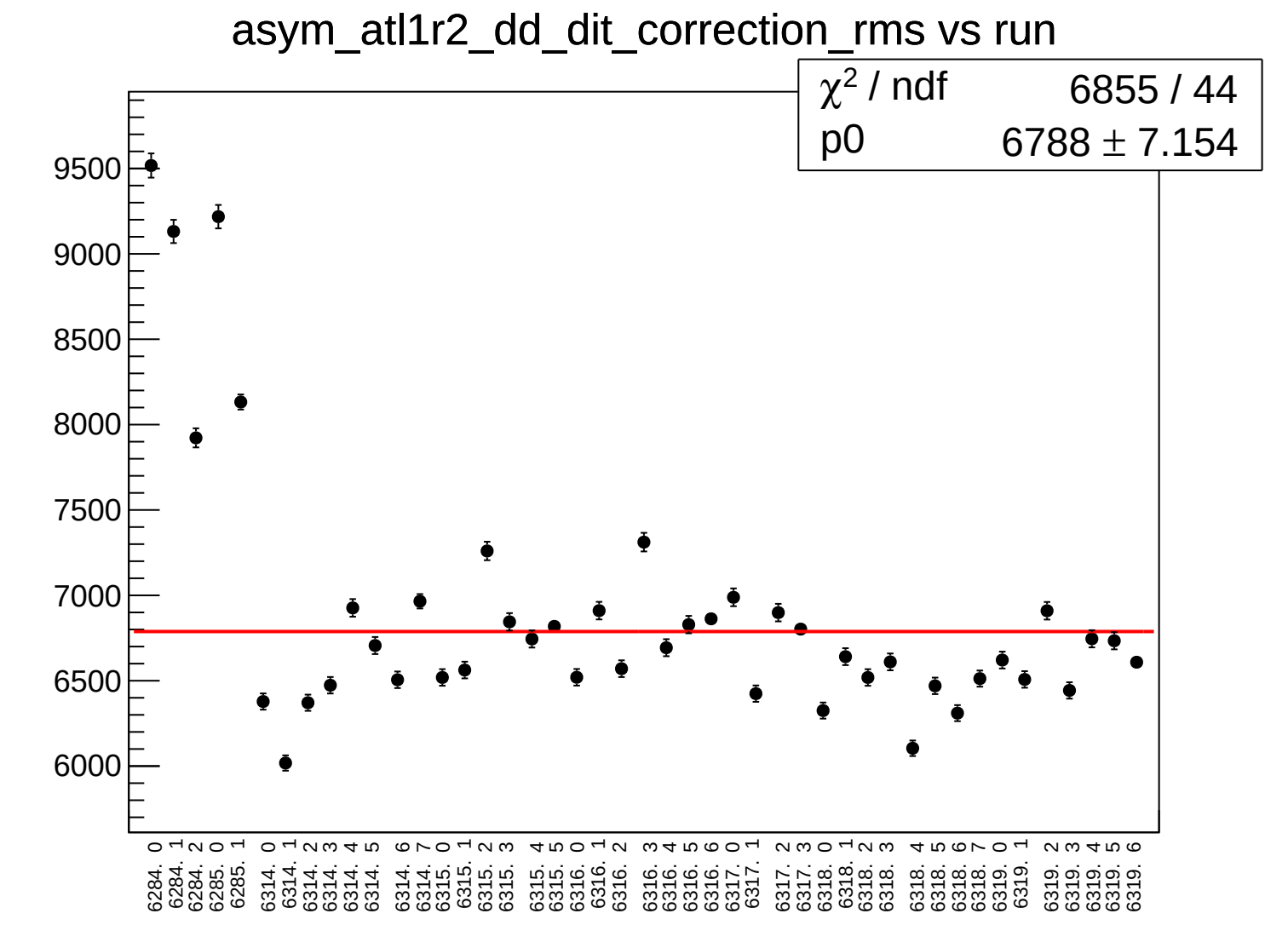
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

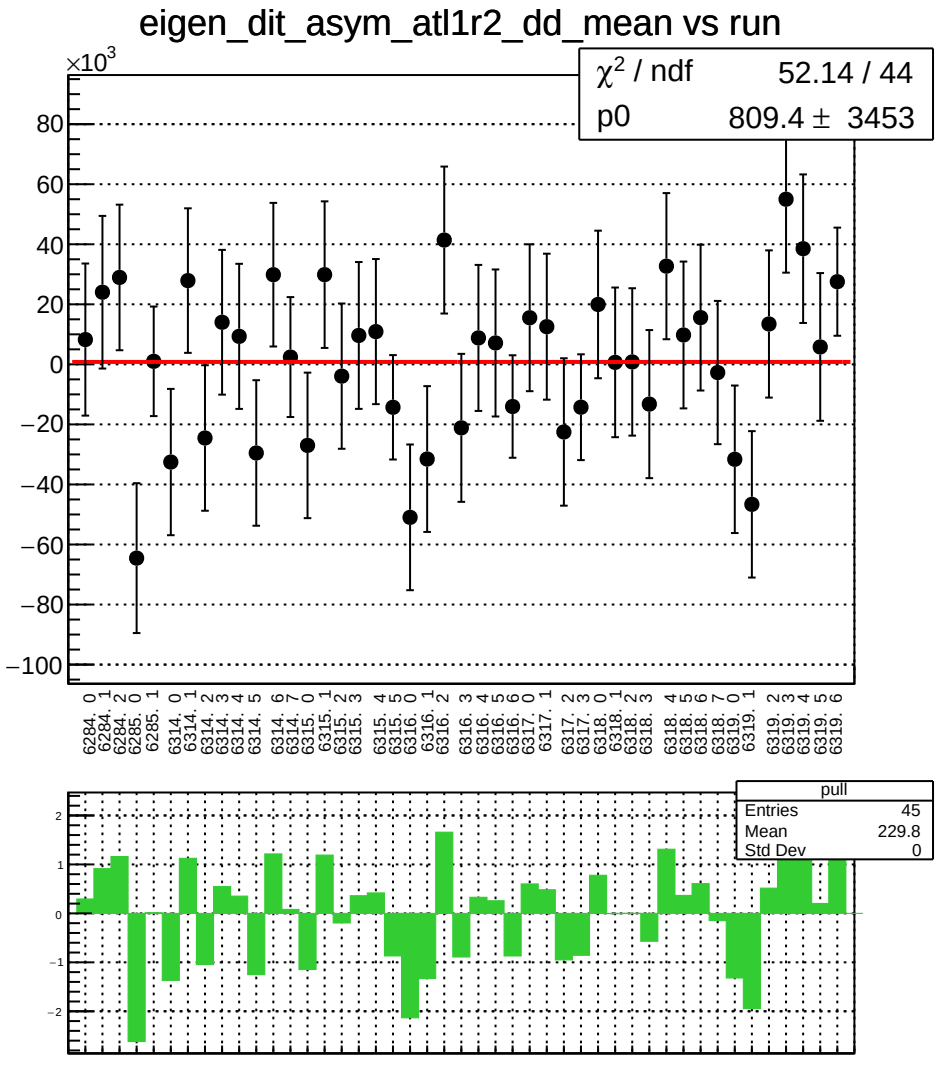

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 52.14 / 44
p0 809.4 ± 3453
×10³
pull
Entries 45
Mean 229.8
Std Dev 0

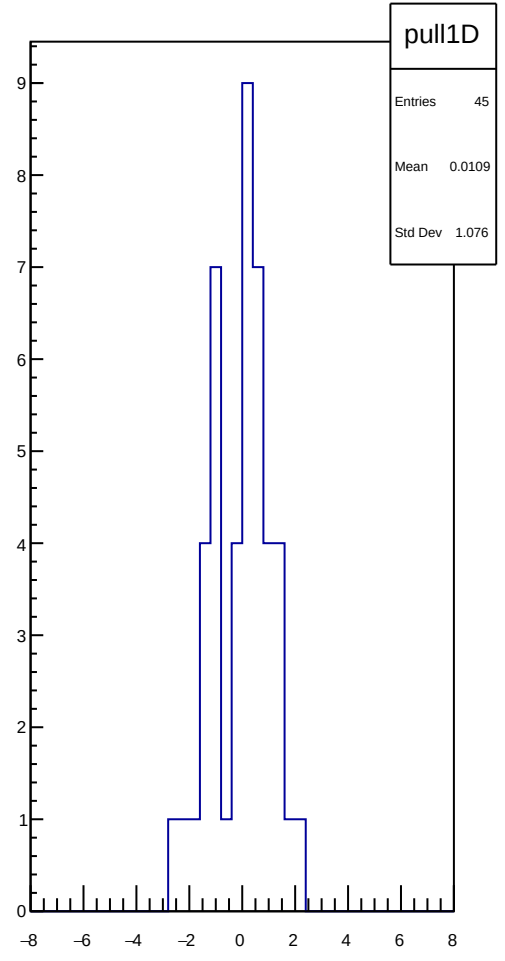

pull1D
Entries 45
Mean 0.0109
Std Dev 1.076

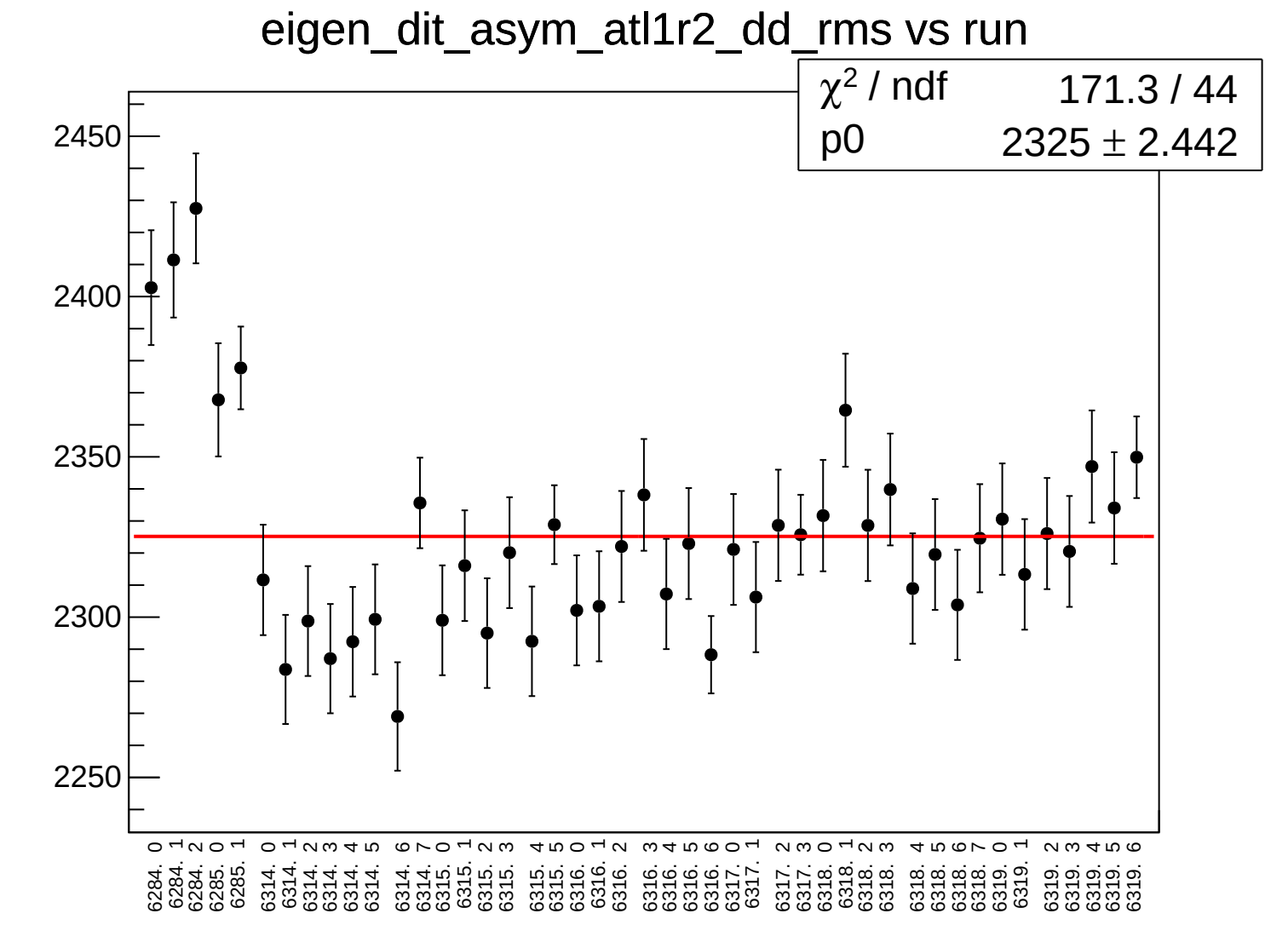

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 171.3 / 44
p0 2325 ± 2.442
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

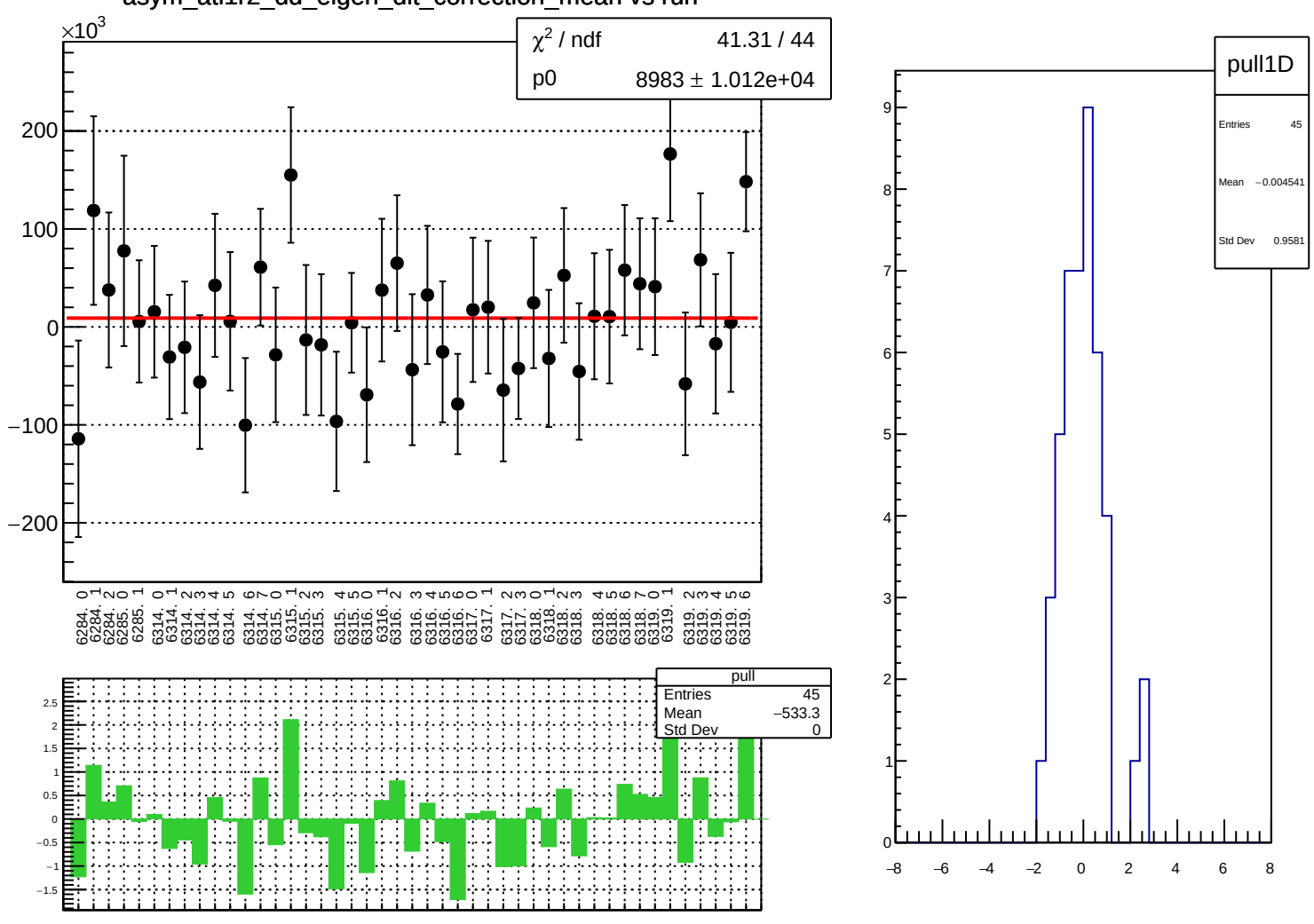

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.31 / 44
p0 8983 ± 1.012e+04
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −533.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004541
Std Dev 0.9581
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

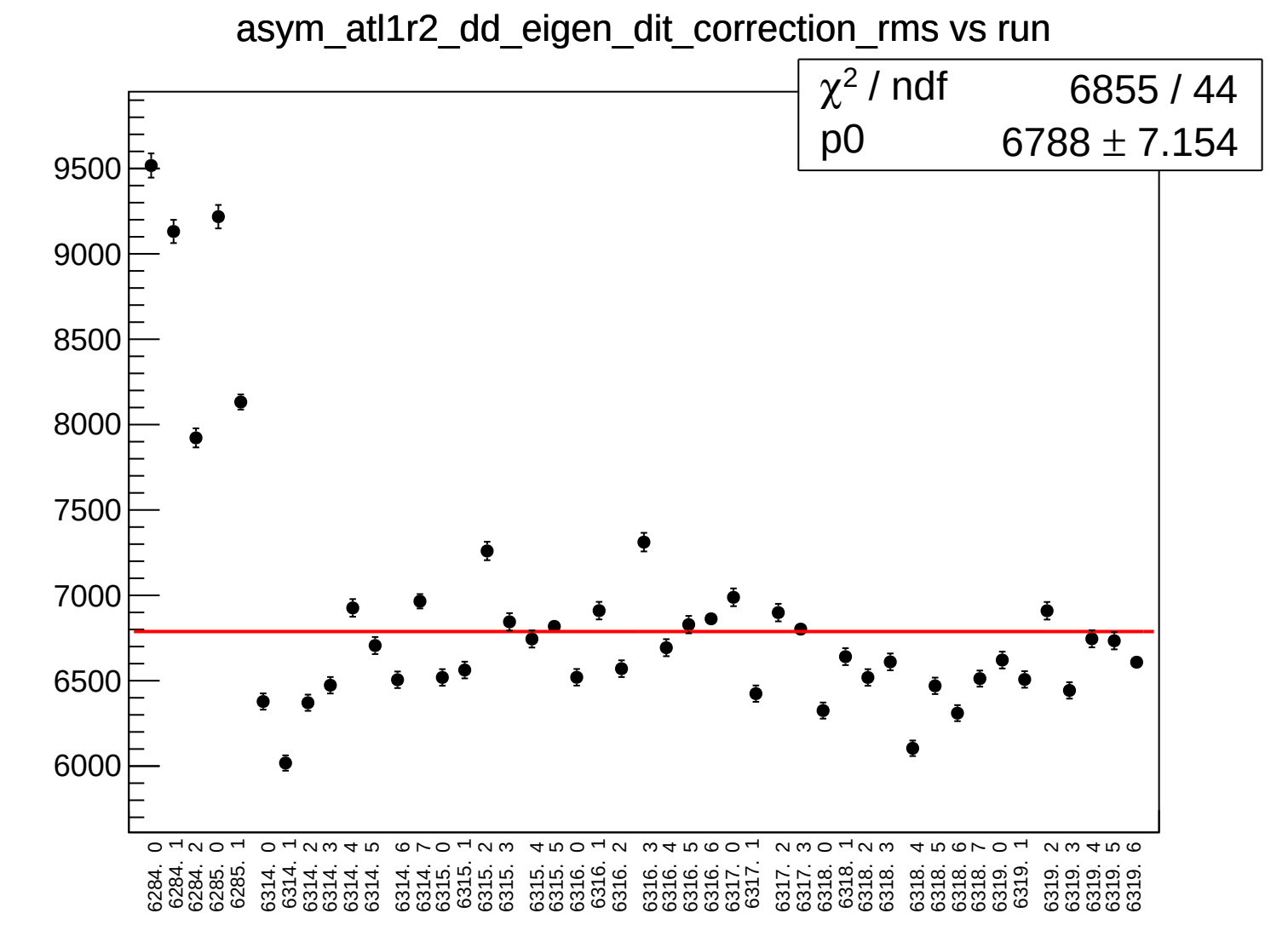

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6855 / 44
p0 6788 ± 7.154
9500
9000
8500
8000
7500
7000
6500
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

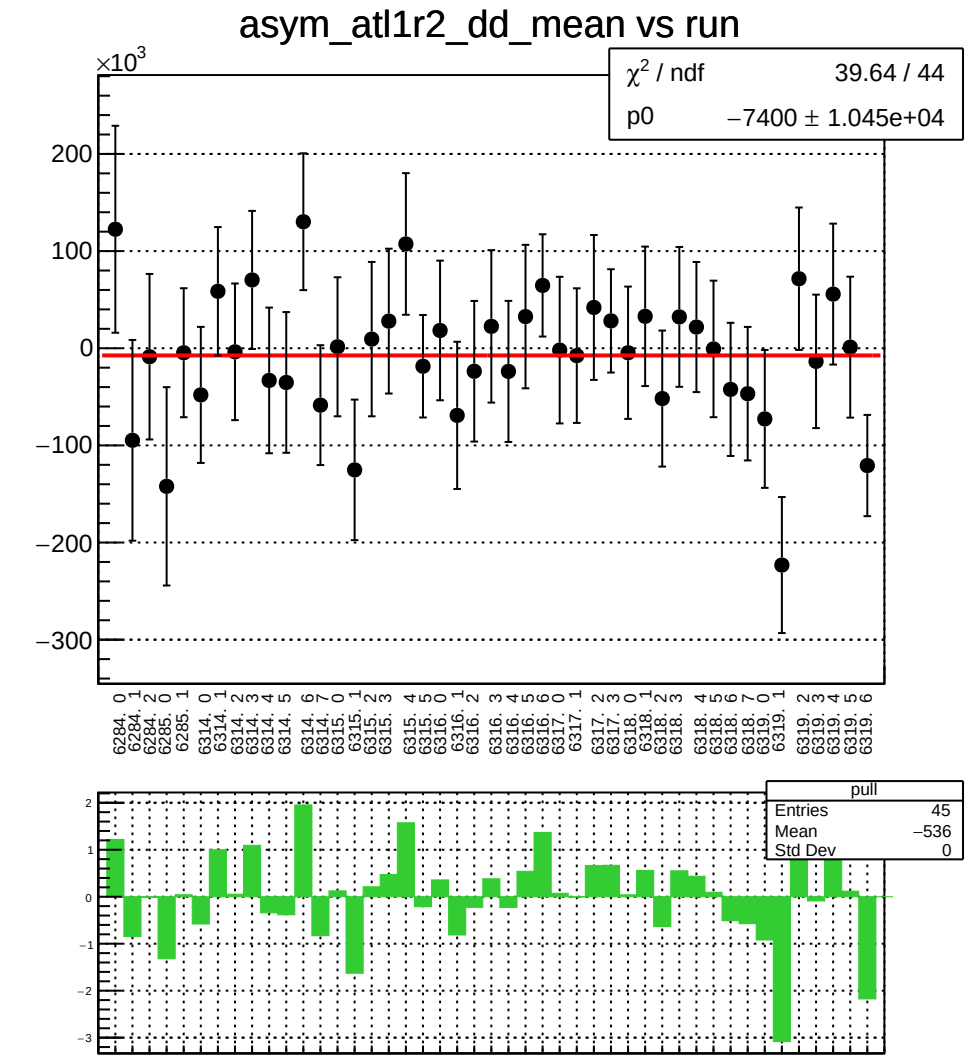

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 52.14 / 44
p0 809.4 ± 3453
×10³
pull
Entries 45
Mean 229.8
Std Dev 0

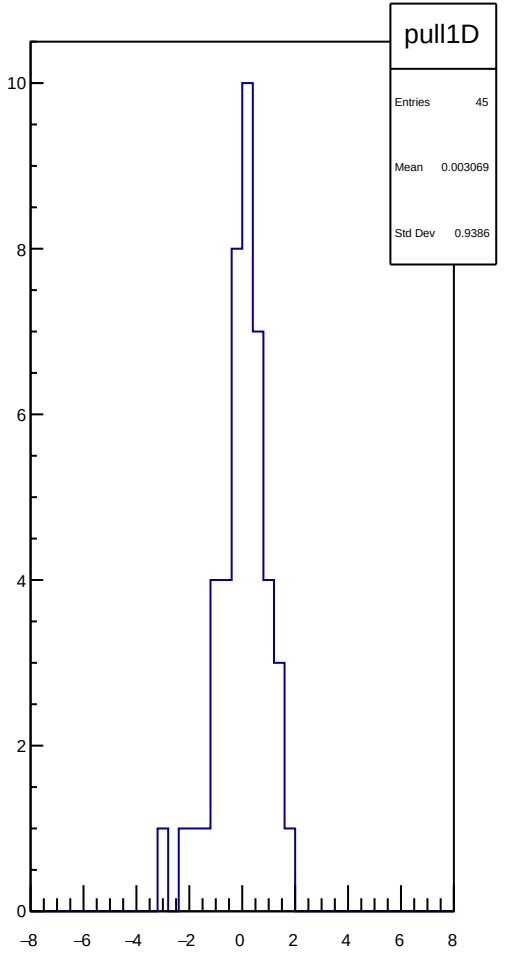

pull1D
Entries 45
Mean 0.0109
Std Dev 1.076

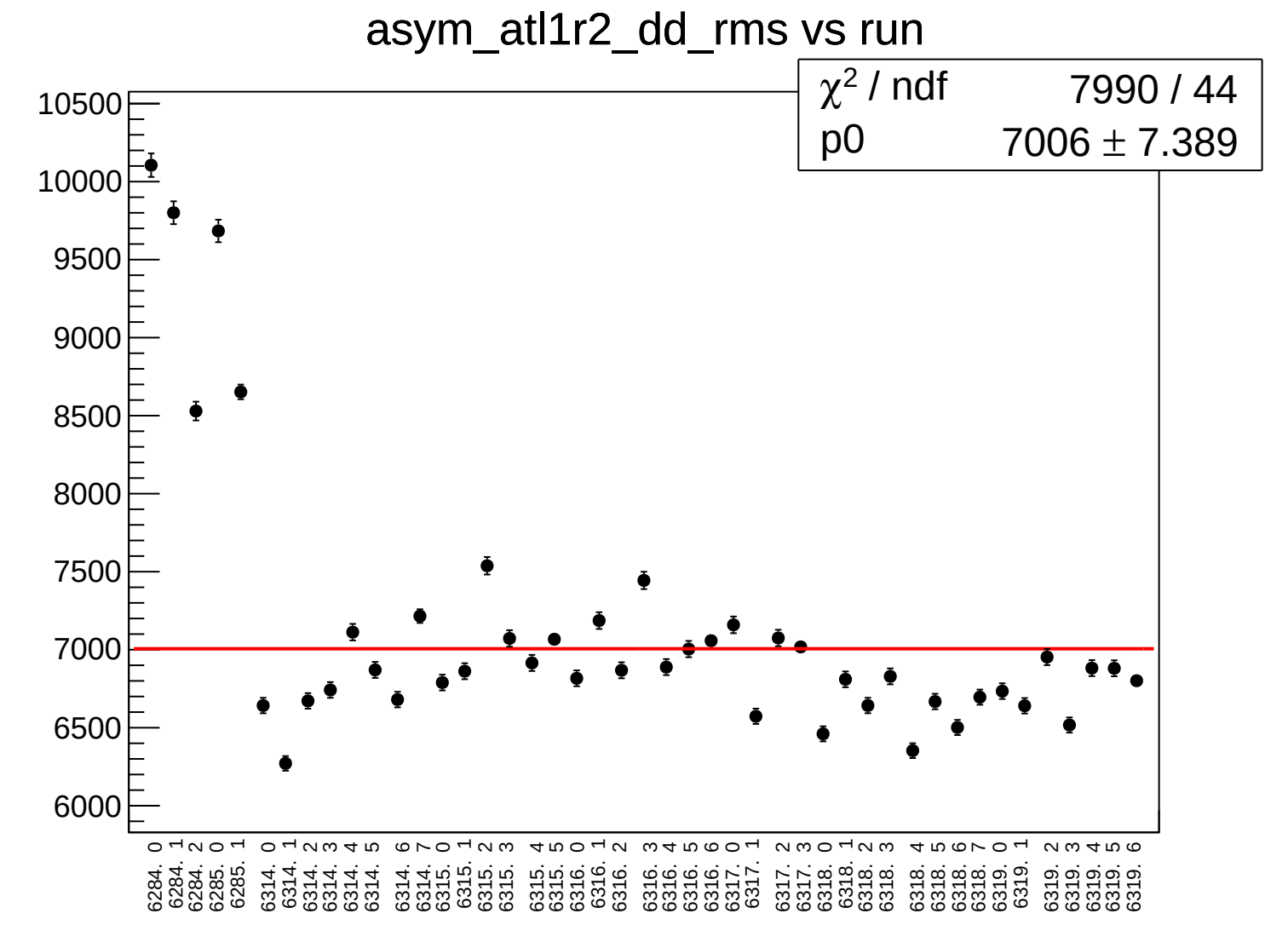

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 171.3 / 44
p0 2325 ± 2.442
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

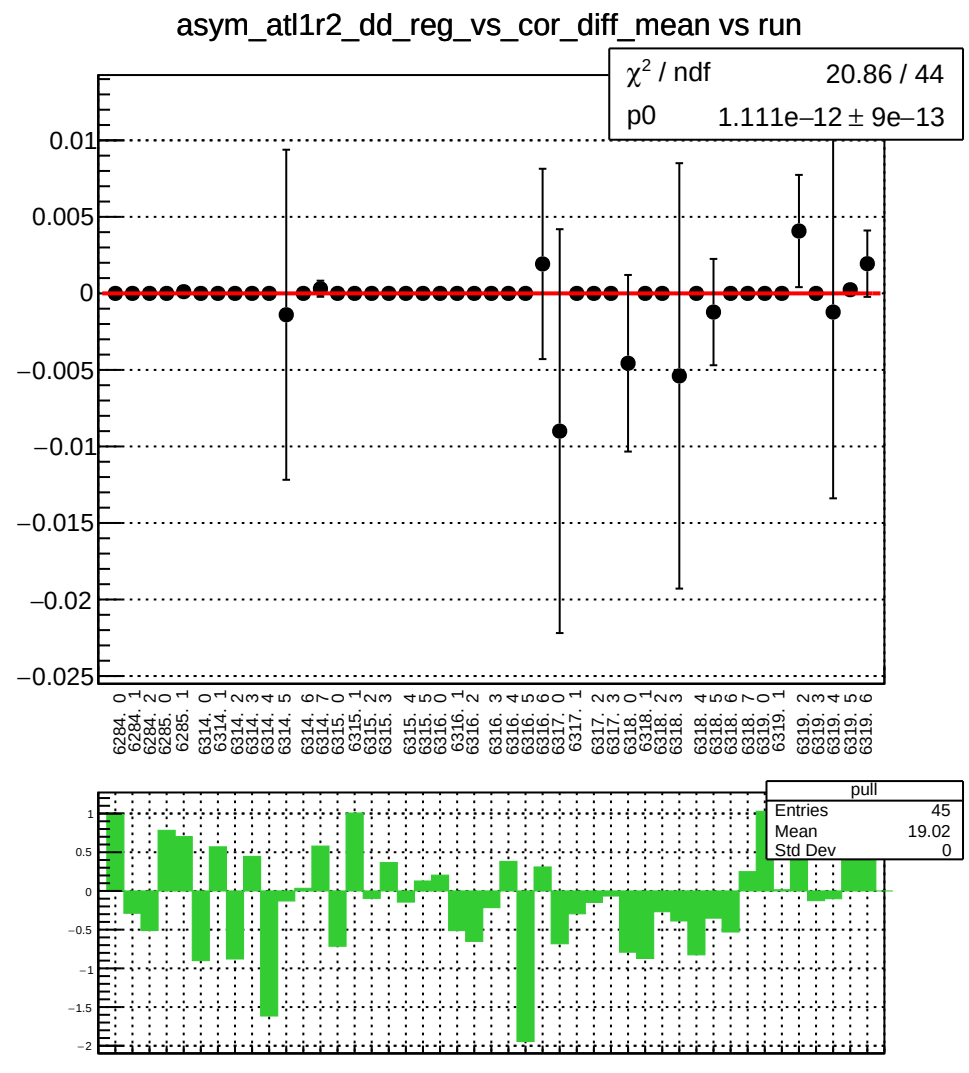

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.31 / 44
p0 8983 ± 1.012e+04
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −533.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004541
Std Dev 0.9581
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

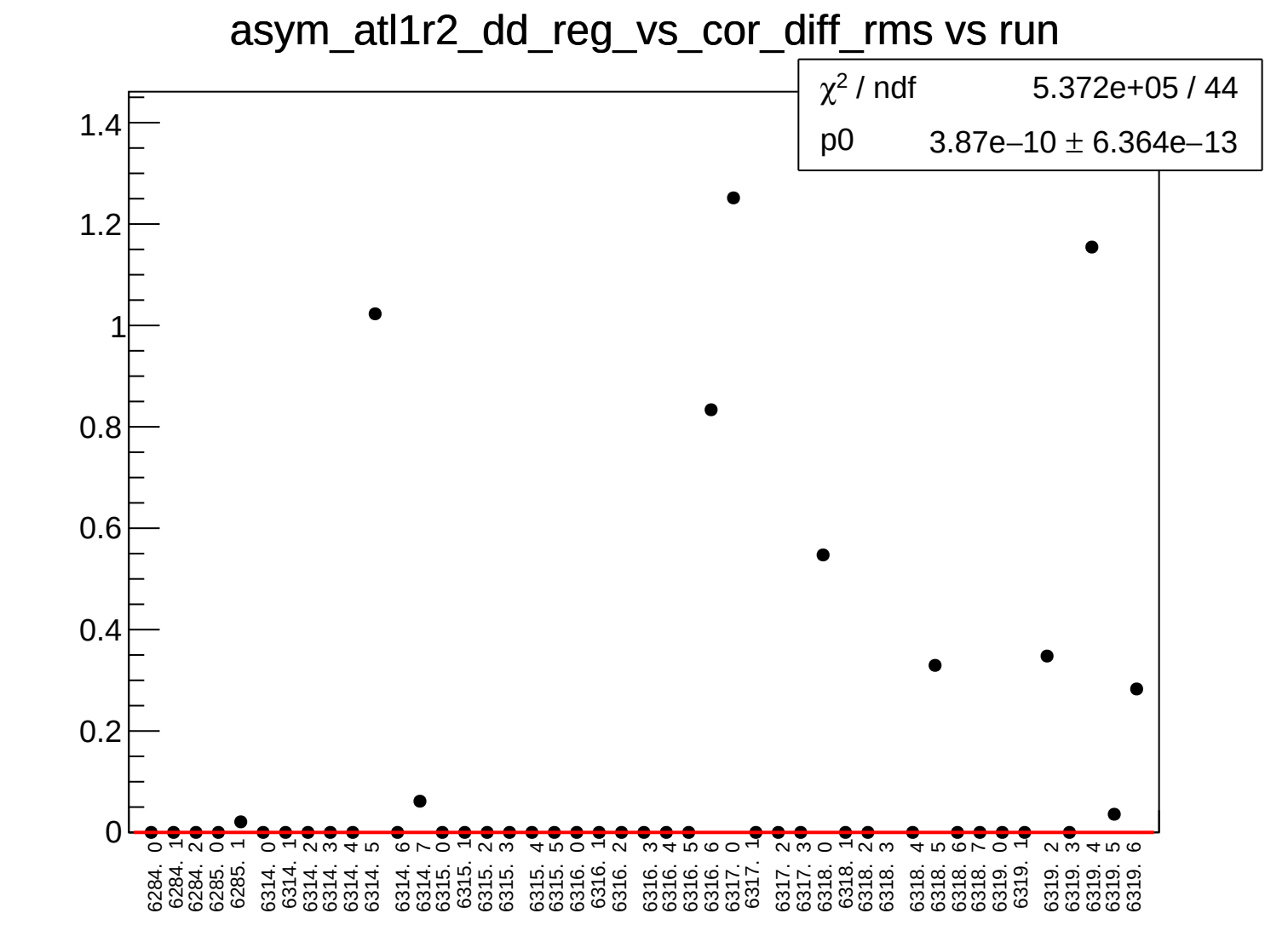

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6855 / 44
p0 6788 ± 7.154
9500
9000
8500
8000
7500
7000
6500
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 39.64 / 44
p0 −7400 ± 1.045e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −536
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003069
Std Dev 0.9386
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_rms vs run
χ² / ndf 7990 / 44
p0 7006 ± 7.389
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.86 / 44
p0 1.111e−12 ± 9e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 19.02
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.08024
Std Dev 0.6762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.372e+05 / 44
p0 3.87e−10 ± 6.364e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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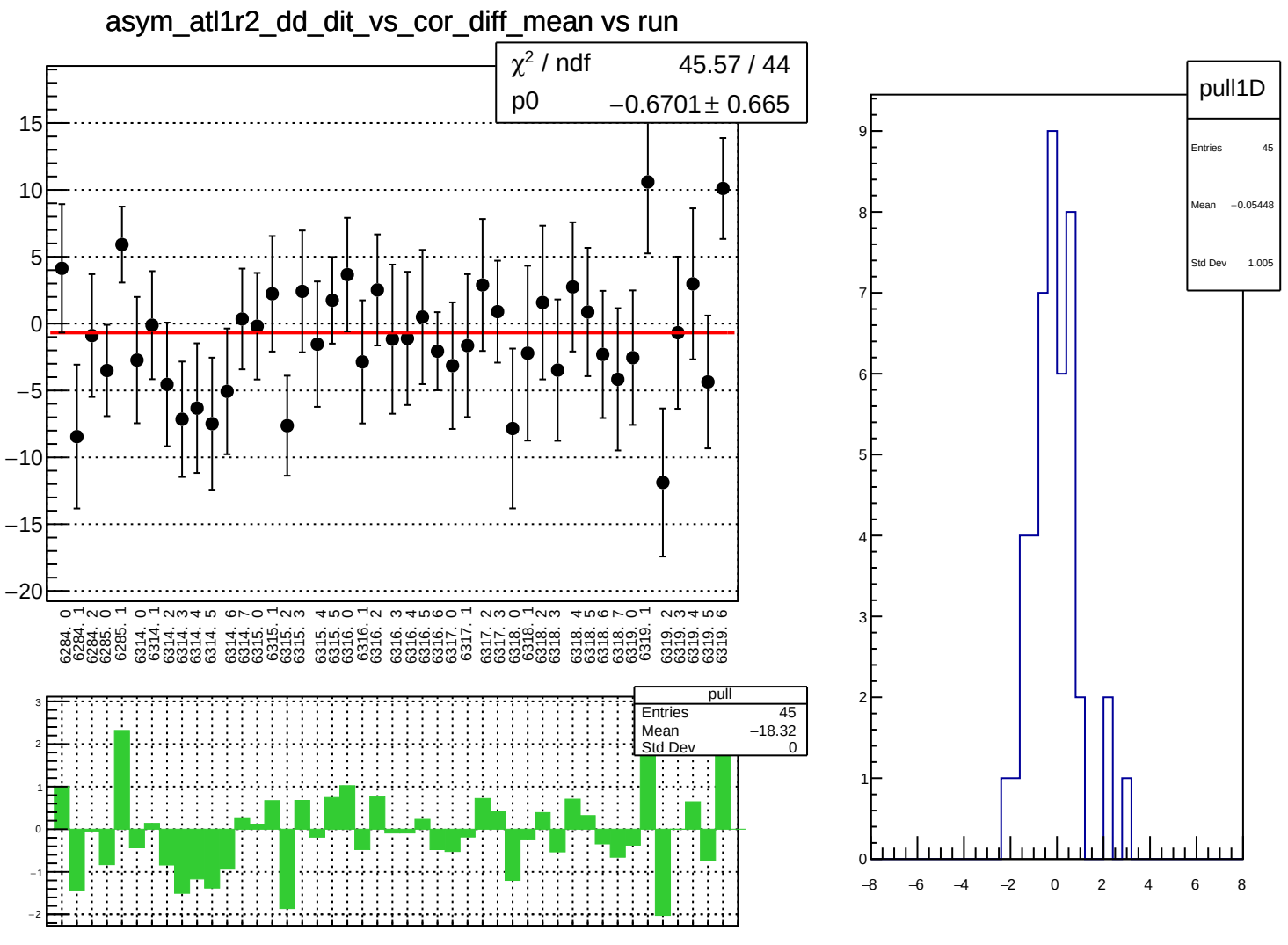
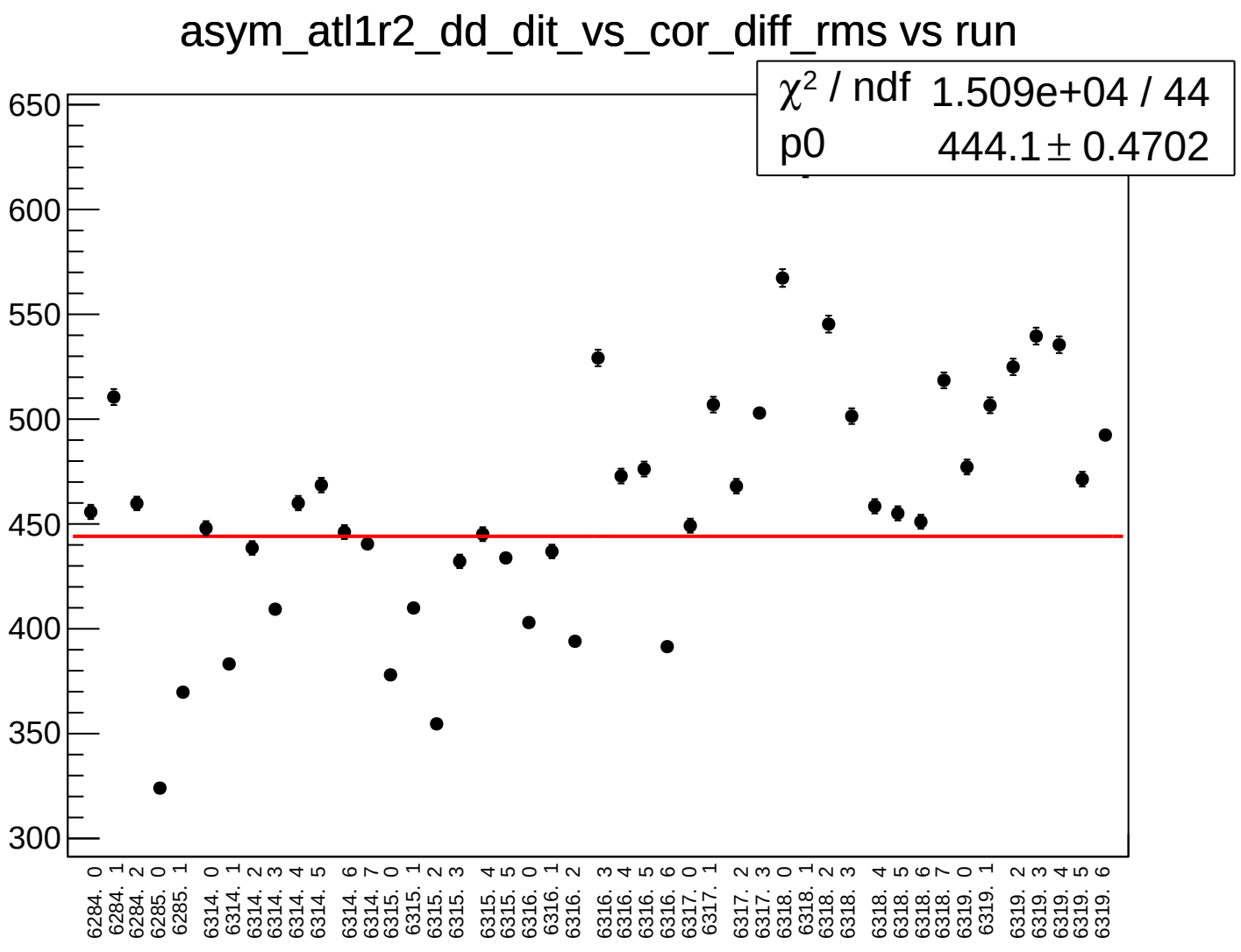
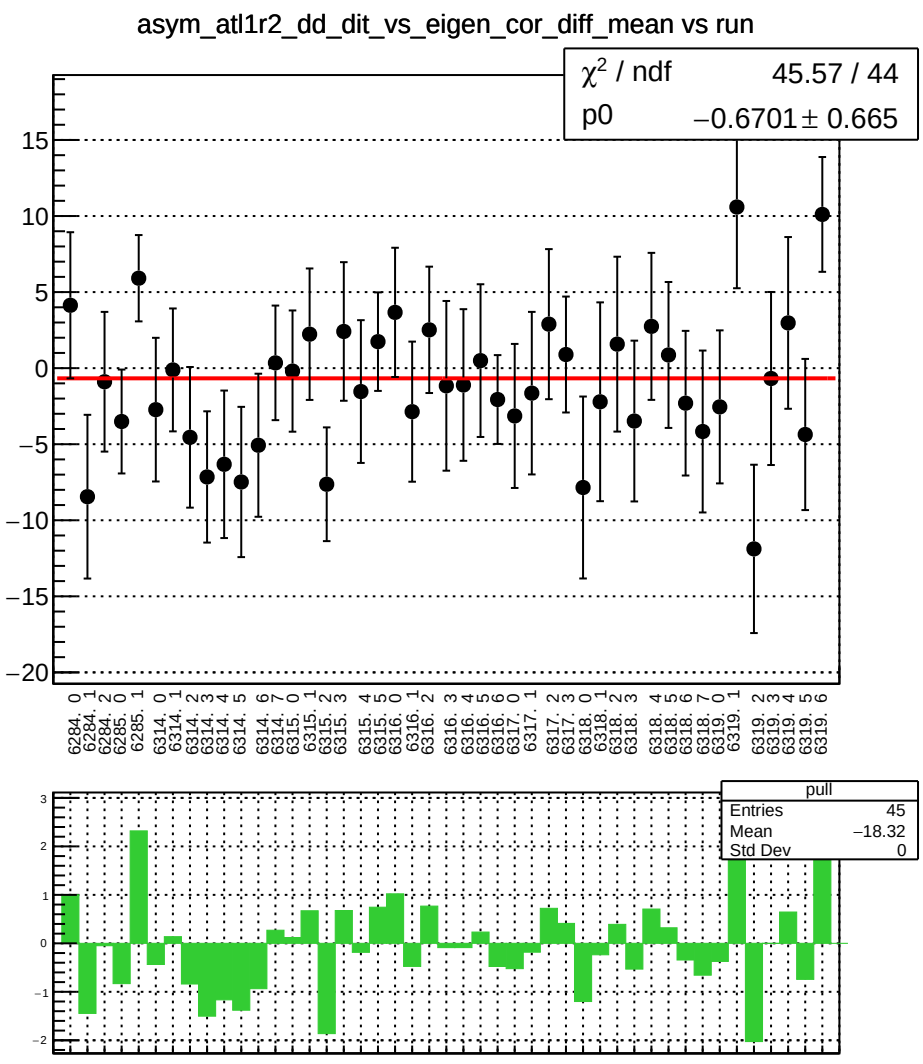
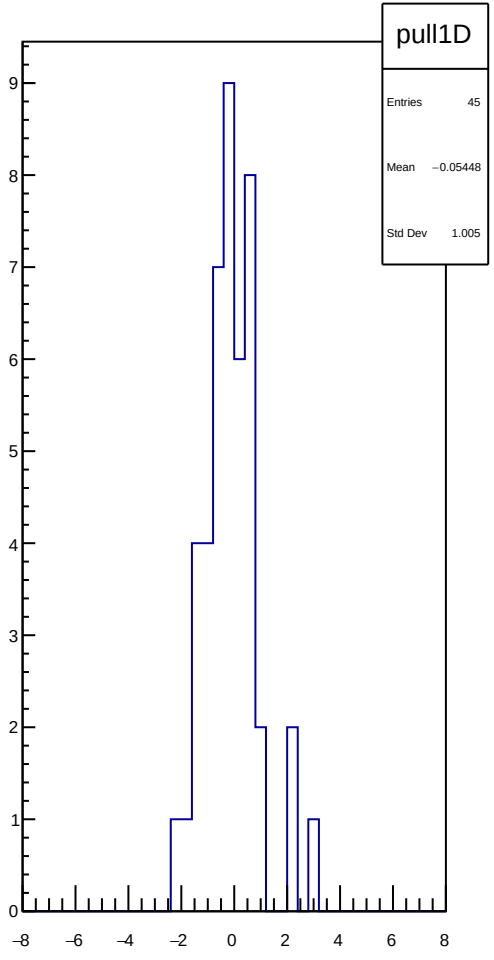
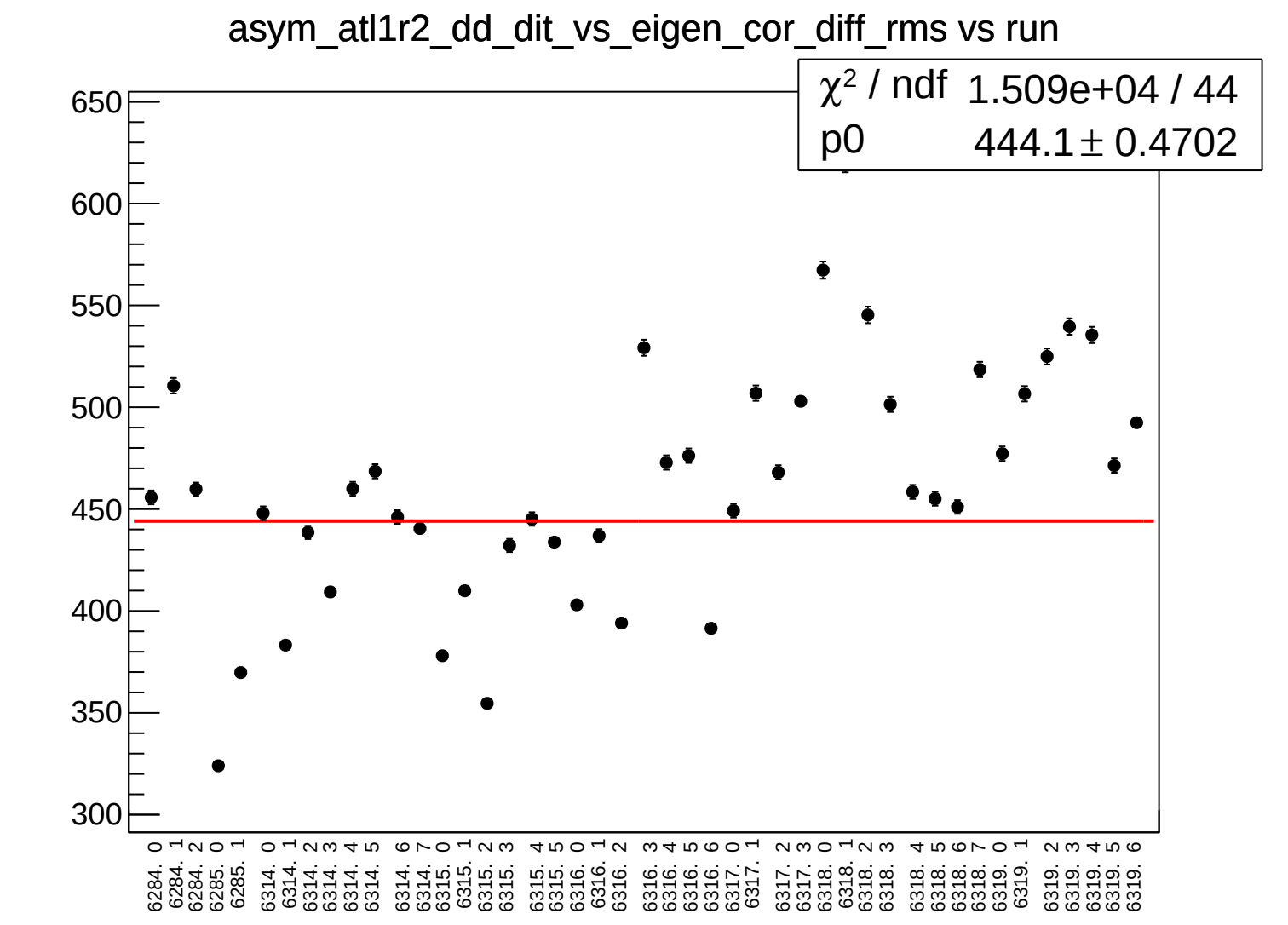
6319. 5
6319. 6

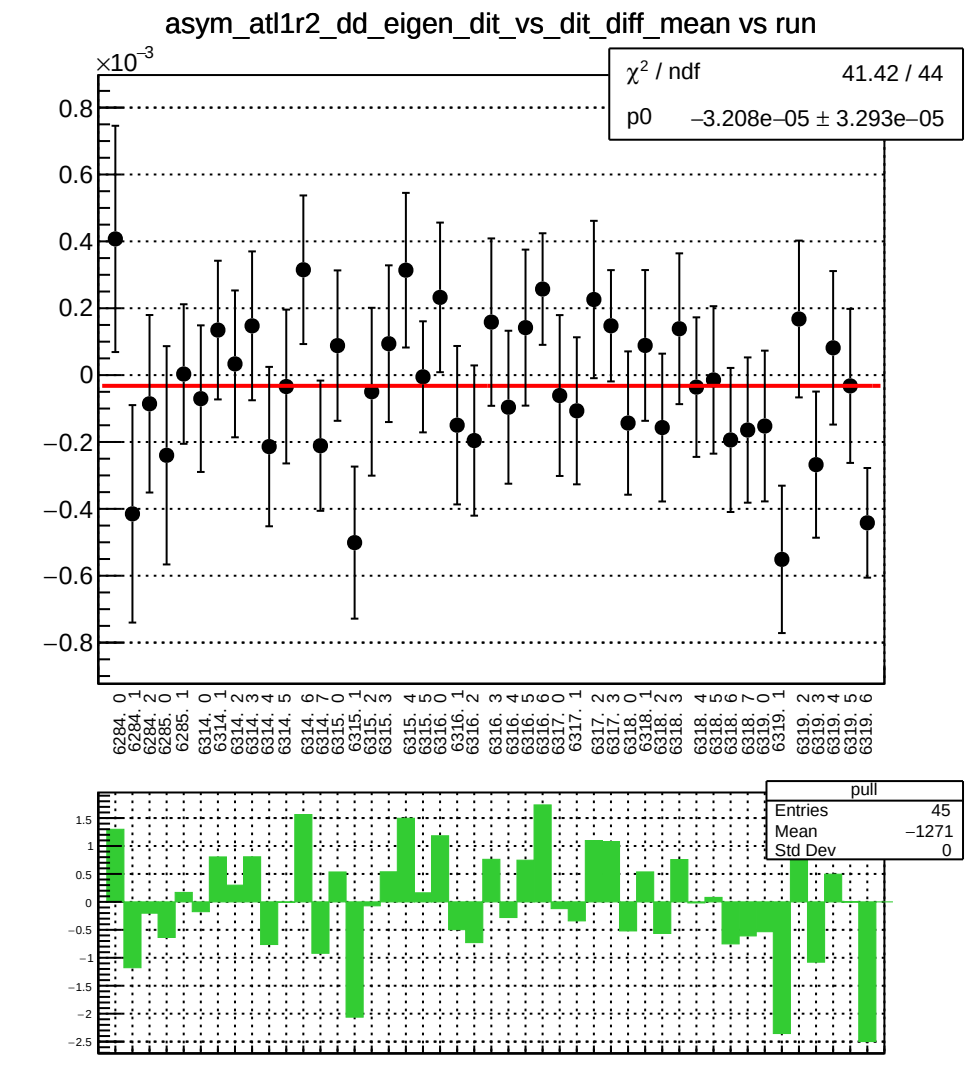

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.57 / 44
p0 −0.6701 ± 0.665
15
10
5
0
−5
−10
−15
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −18.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.05448
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

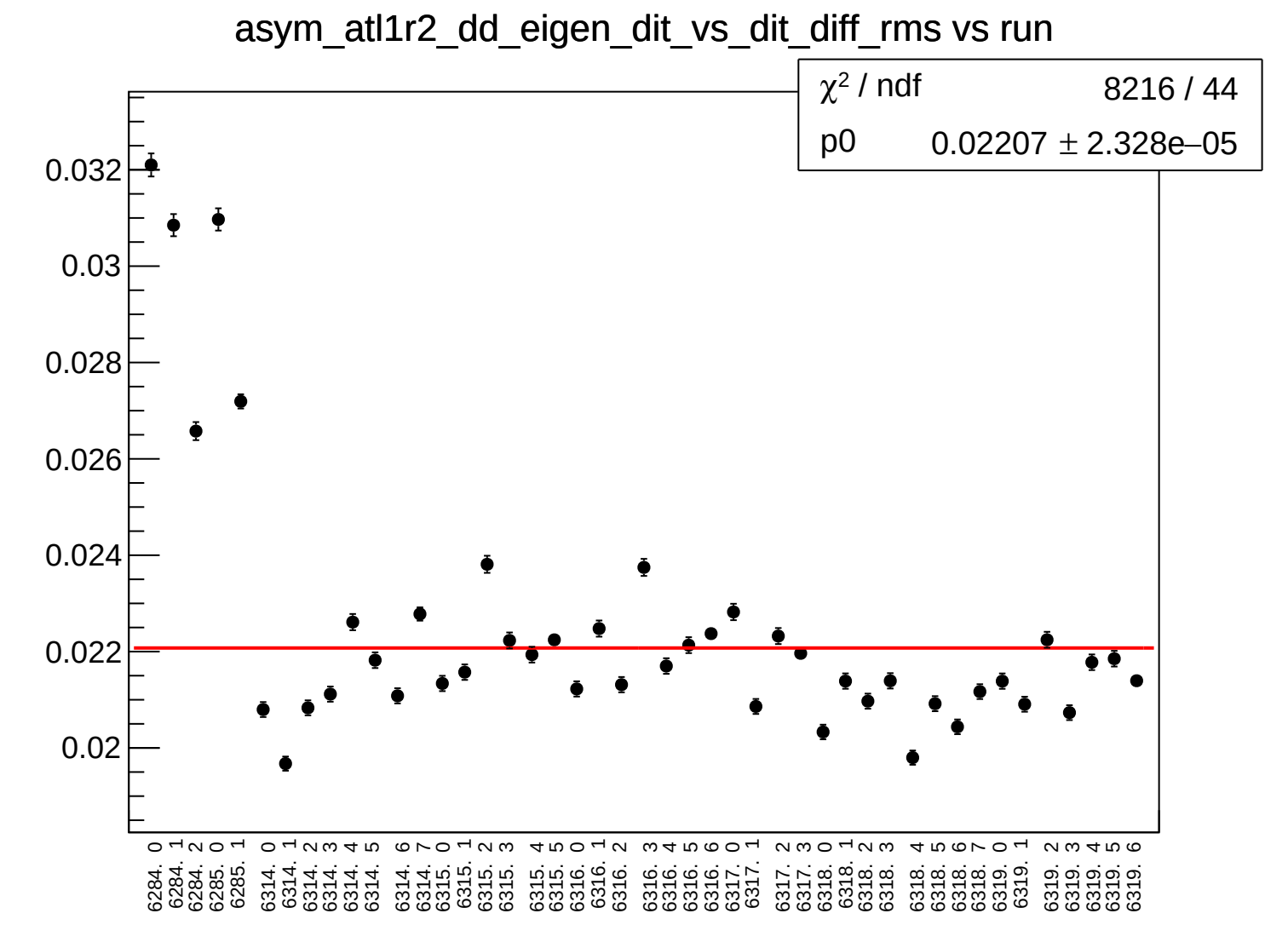

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.509e+04 / 44
p0 444.1 ± 0.4702
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

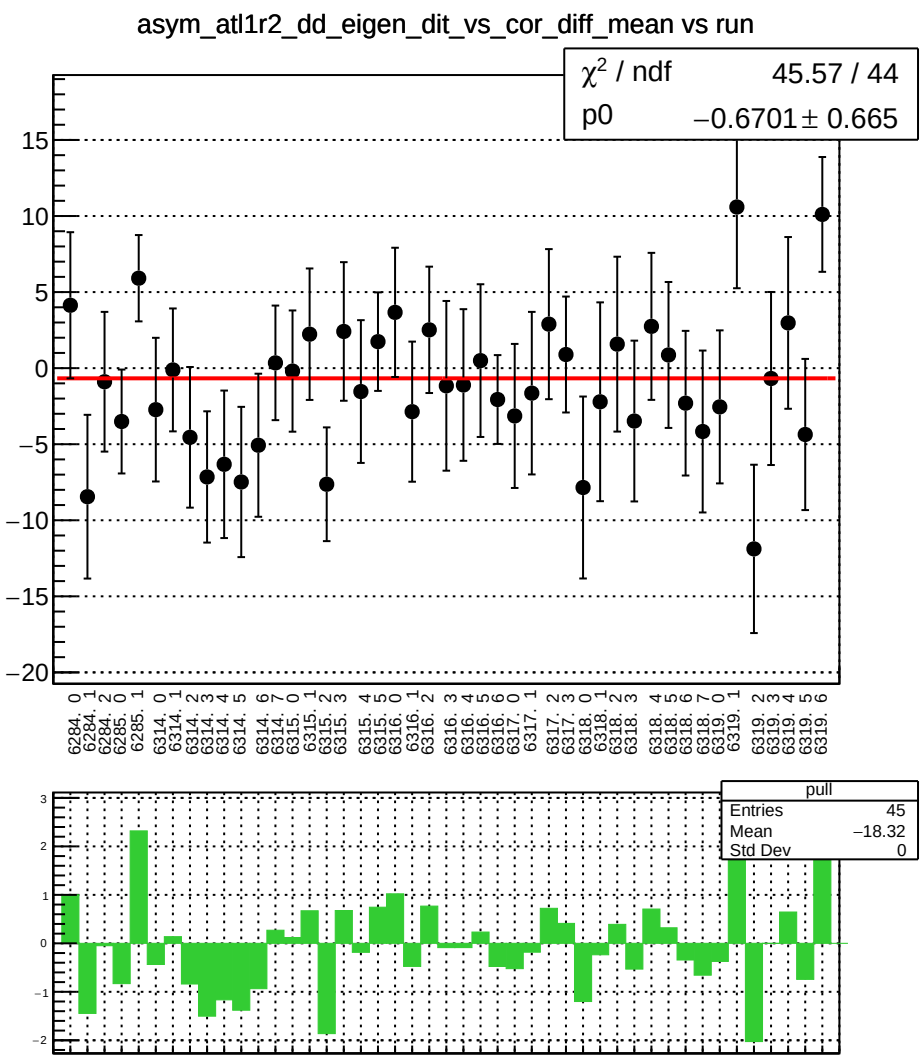

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.57 / 44
p0 −0.6701 ± 0.665
pull
Entries 45
Mean −18.32
Std Dev 0

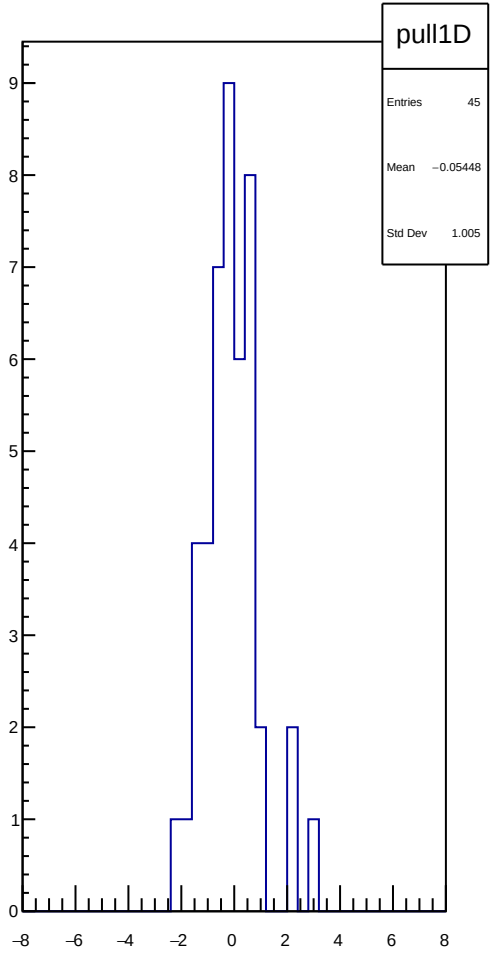

pull1D
Entries 45
Mean −0.05448
Std Dev 1.005

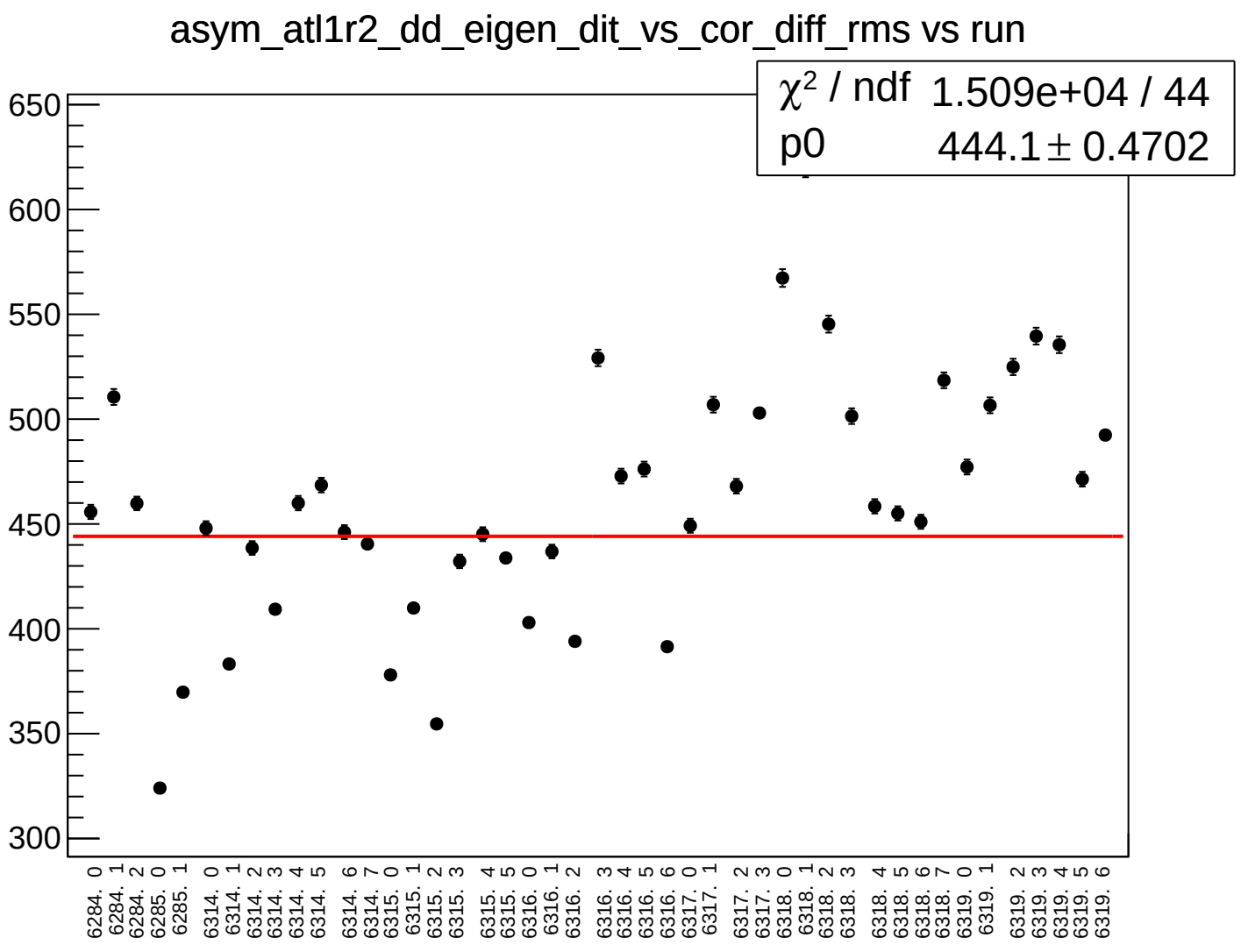

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+04 / 44
p0 444.1 ± 0.4702
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

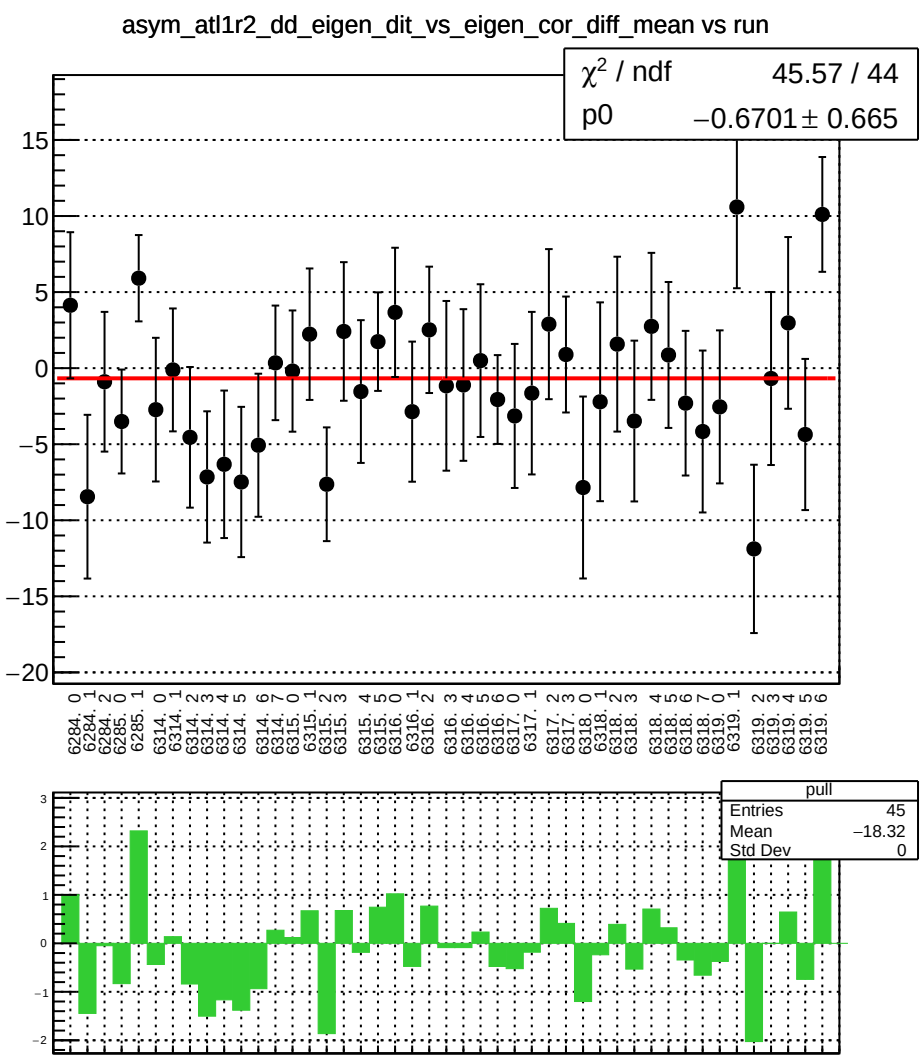

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.42 / 44
p0 −3.208e−05 ± 3.293e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1271
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.001912
Std Dev 0.9594
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

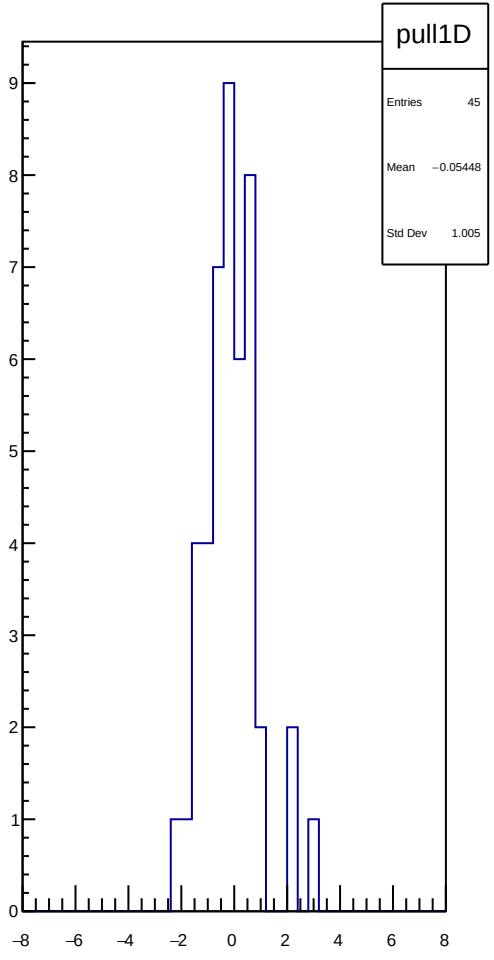

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8216 / 44
p0 0.02207 ± 2.328e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

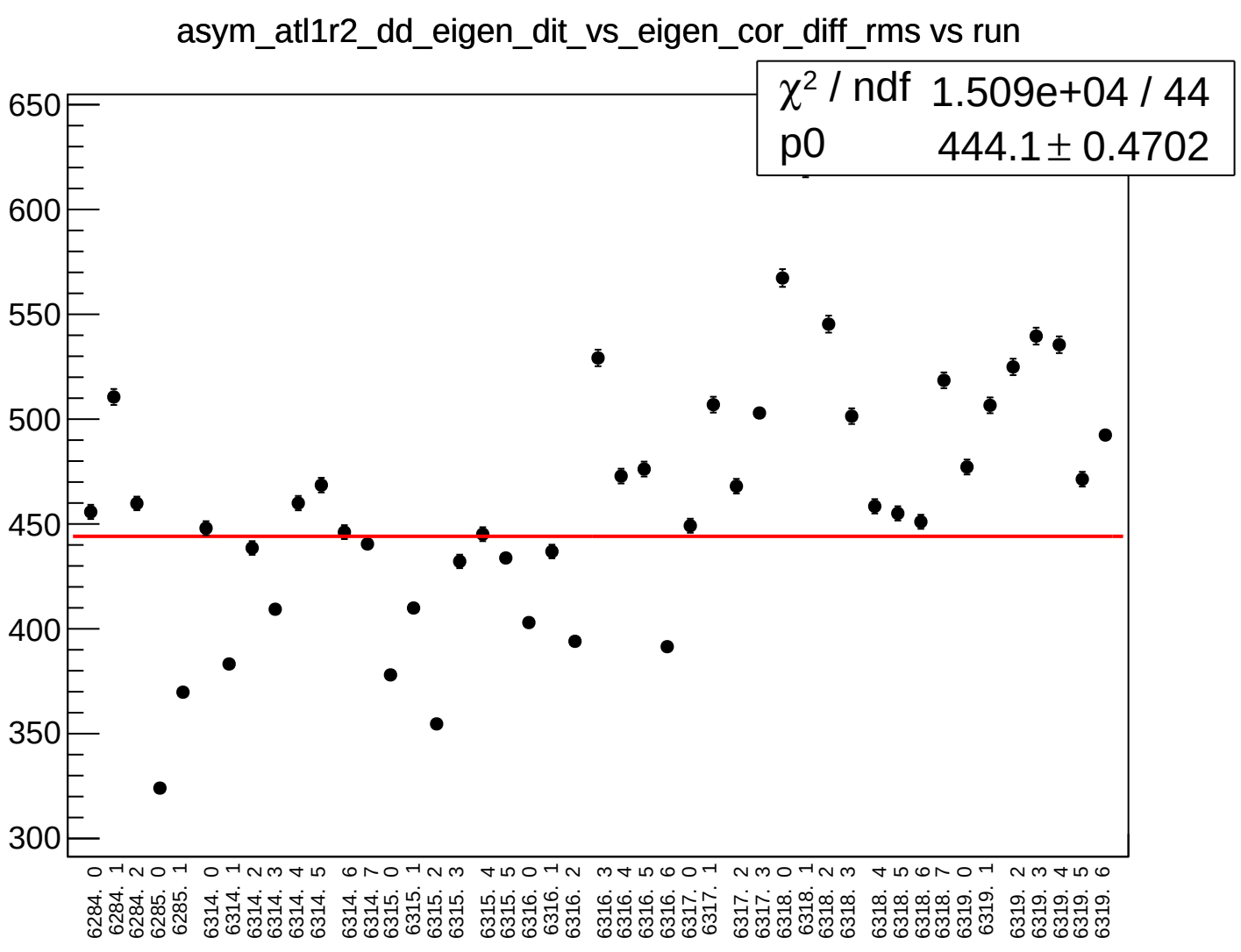

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.57 / 44
p0 −0.6701 ± 0.665
pull
Entries 45
Mean −18.32
Std Dev 0

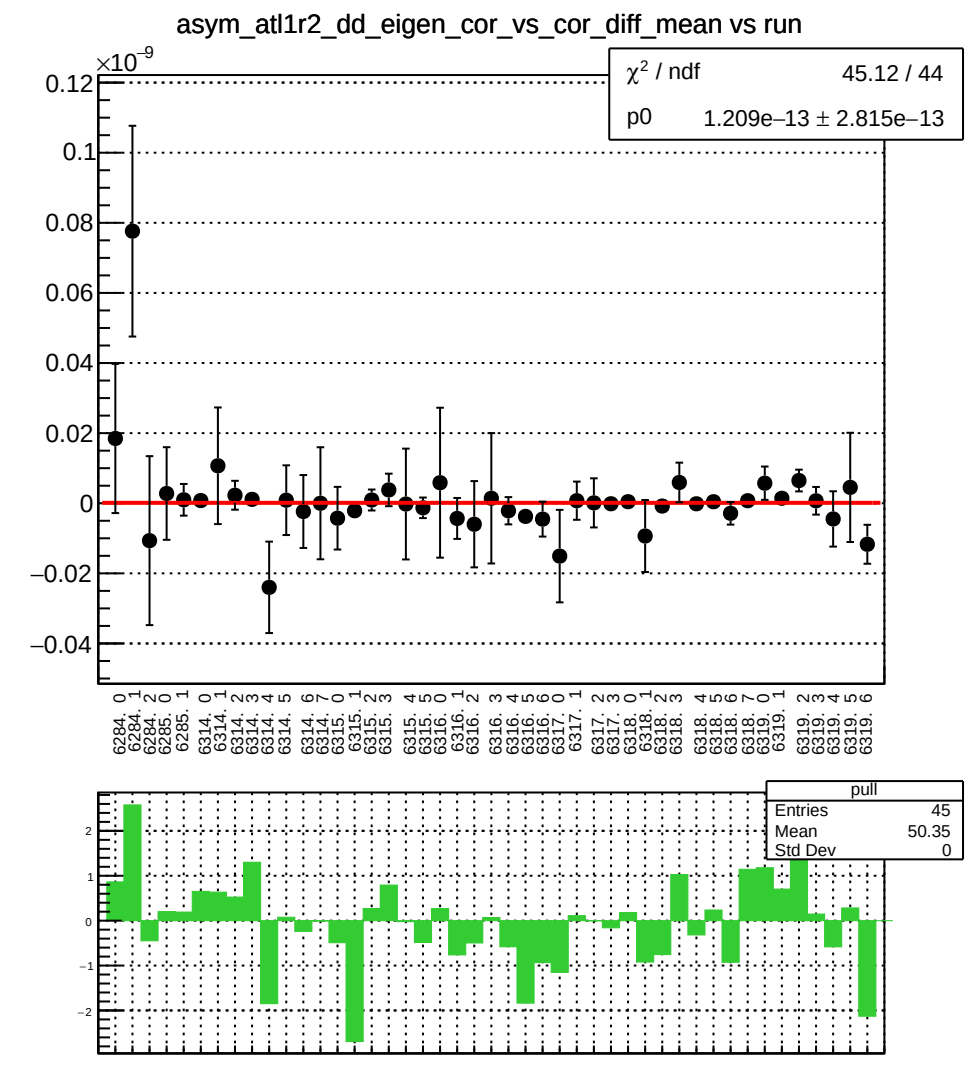

pull1D
Entries 45
Mean −0.05448
Std Dev 1.005

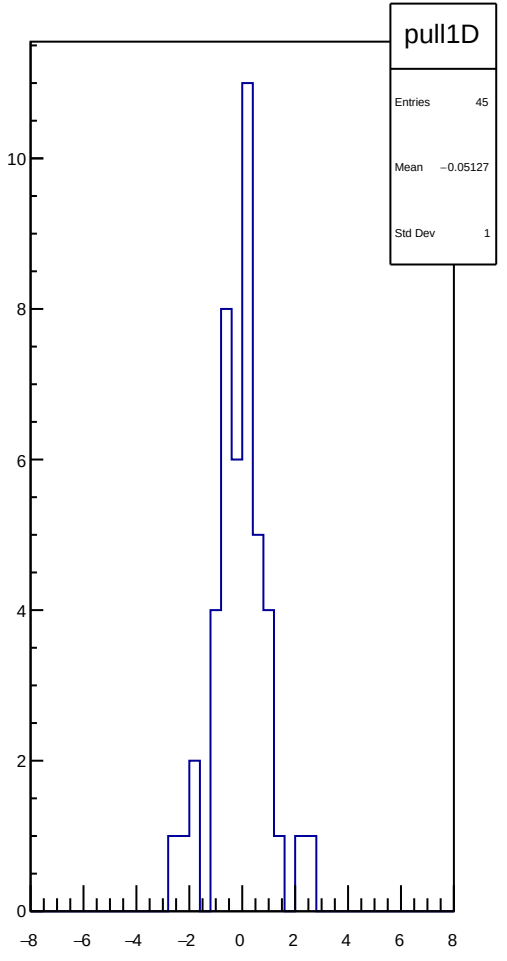

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.509e+04 / 44
p0 444.1 ± 0.4702
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

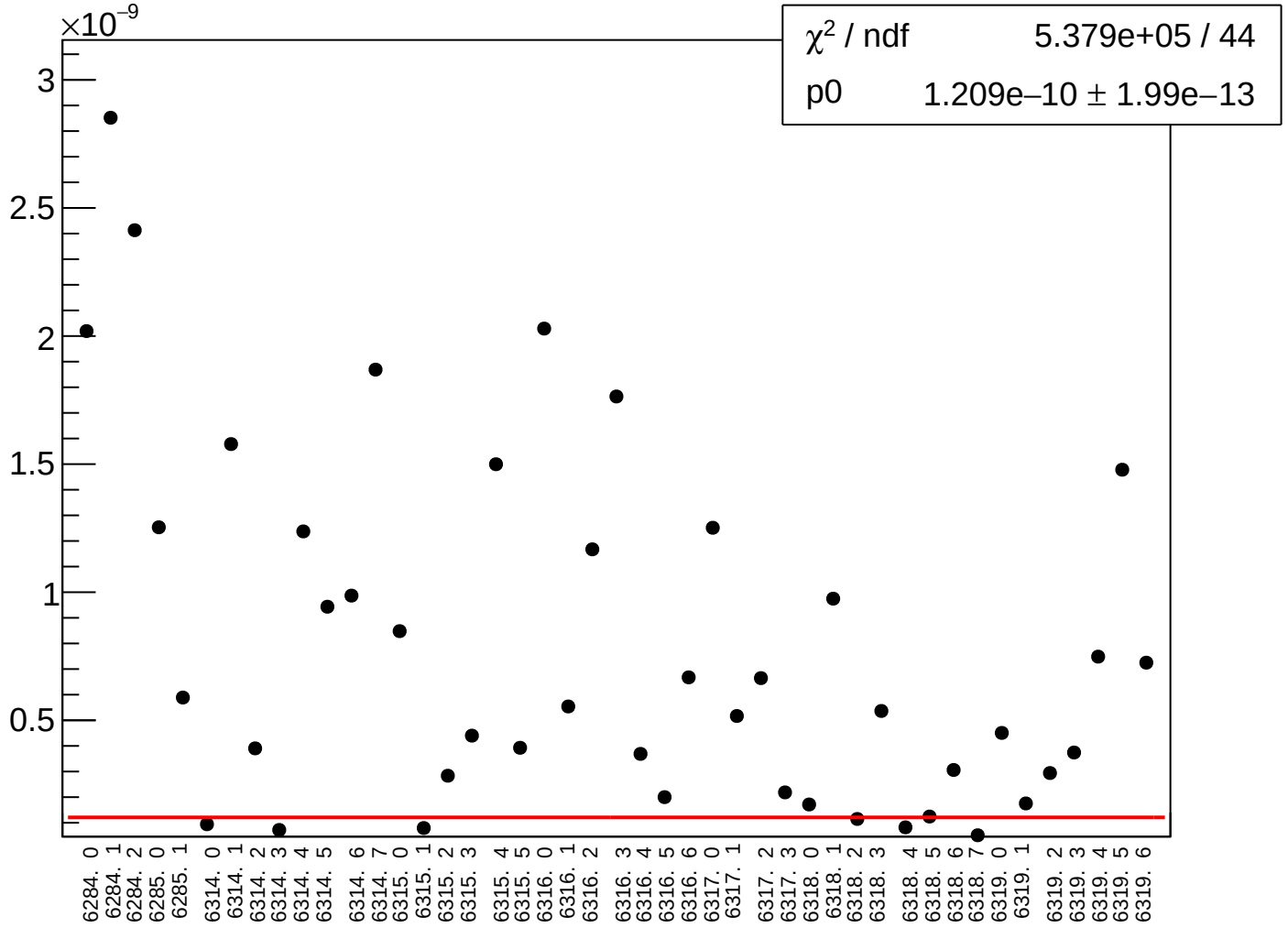

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.57 / 44
p0 −0.6701 ± 0.665
pull
Entries 45
Mean −18.32
Std Dev 0

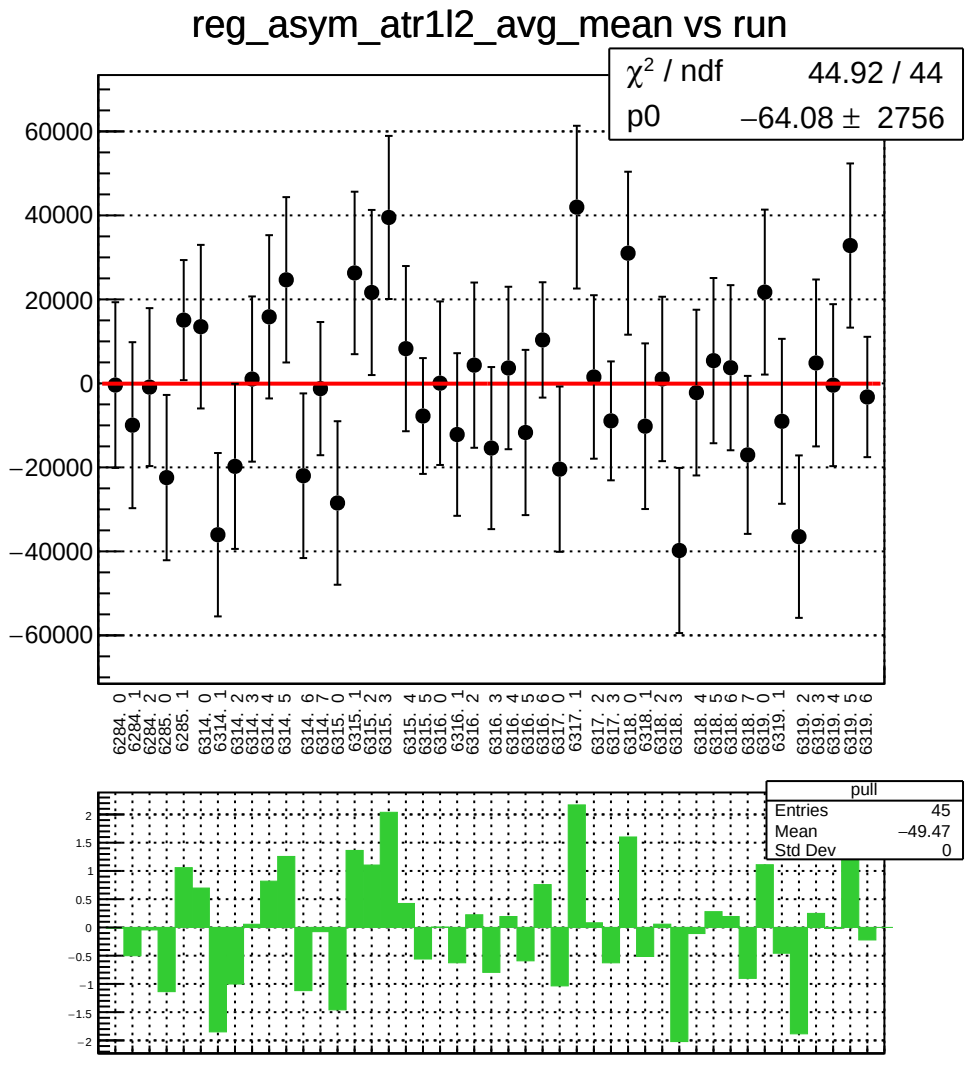

pull1D
Entries 45
Mean −0.05448
Std Dev 1.005

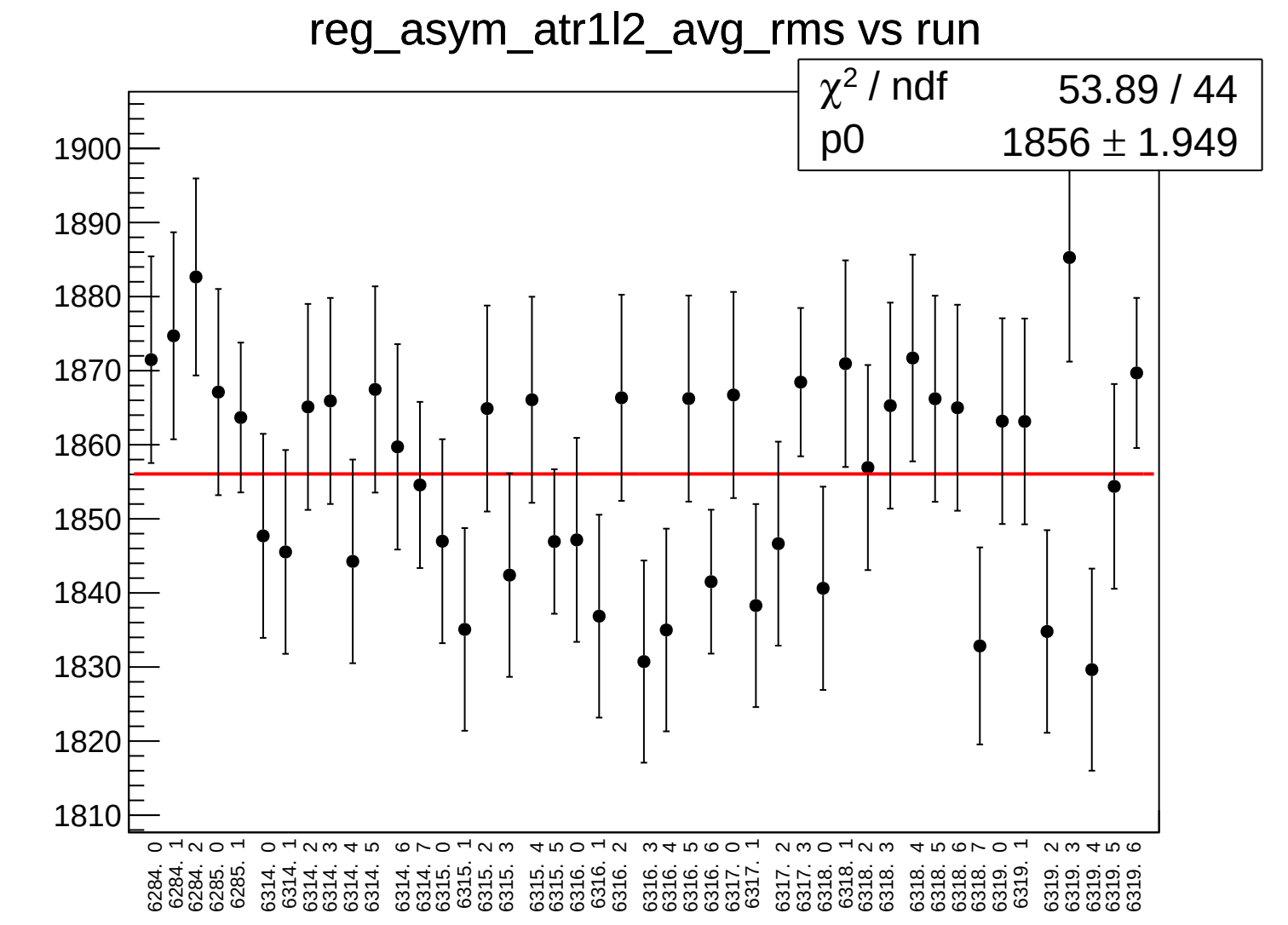

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+04 / 44
p0 444.1 ± 0.4702
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

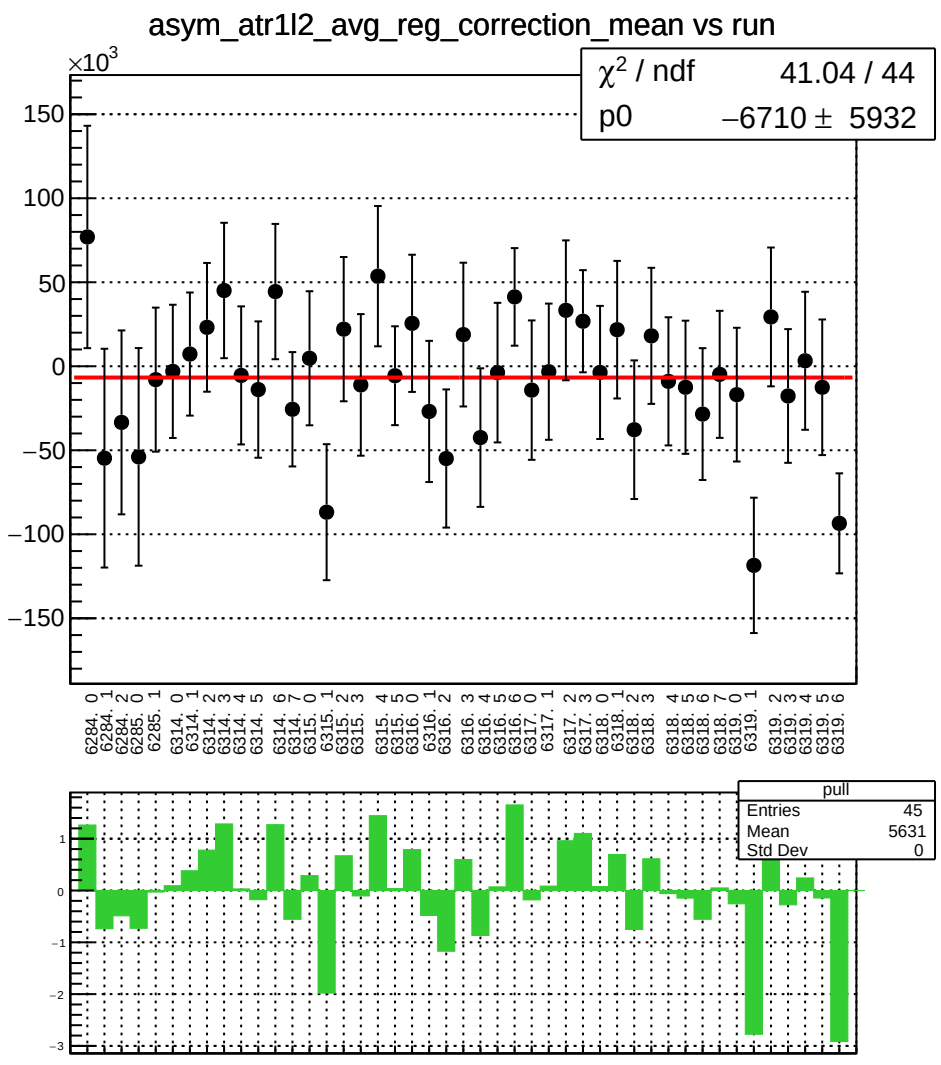

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 45.12 / 44
p0 1.209e−13 ± 2.815e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.35
Std Dev 0
2
1
0
−1
−2

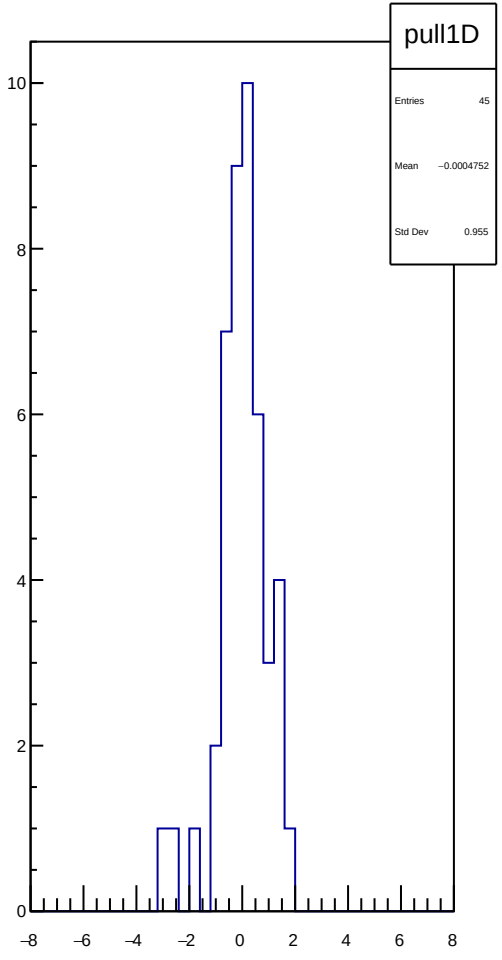

pull1D
Entries 45
Mean −0.05127
Std Dev 1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

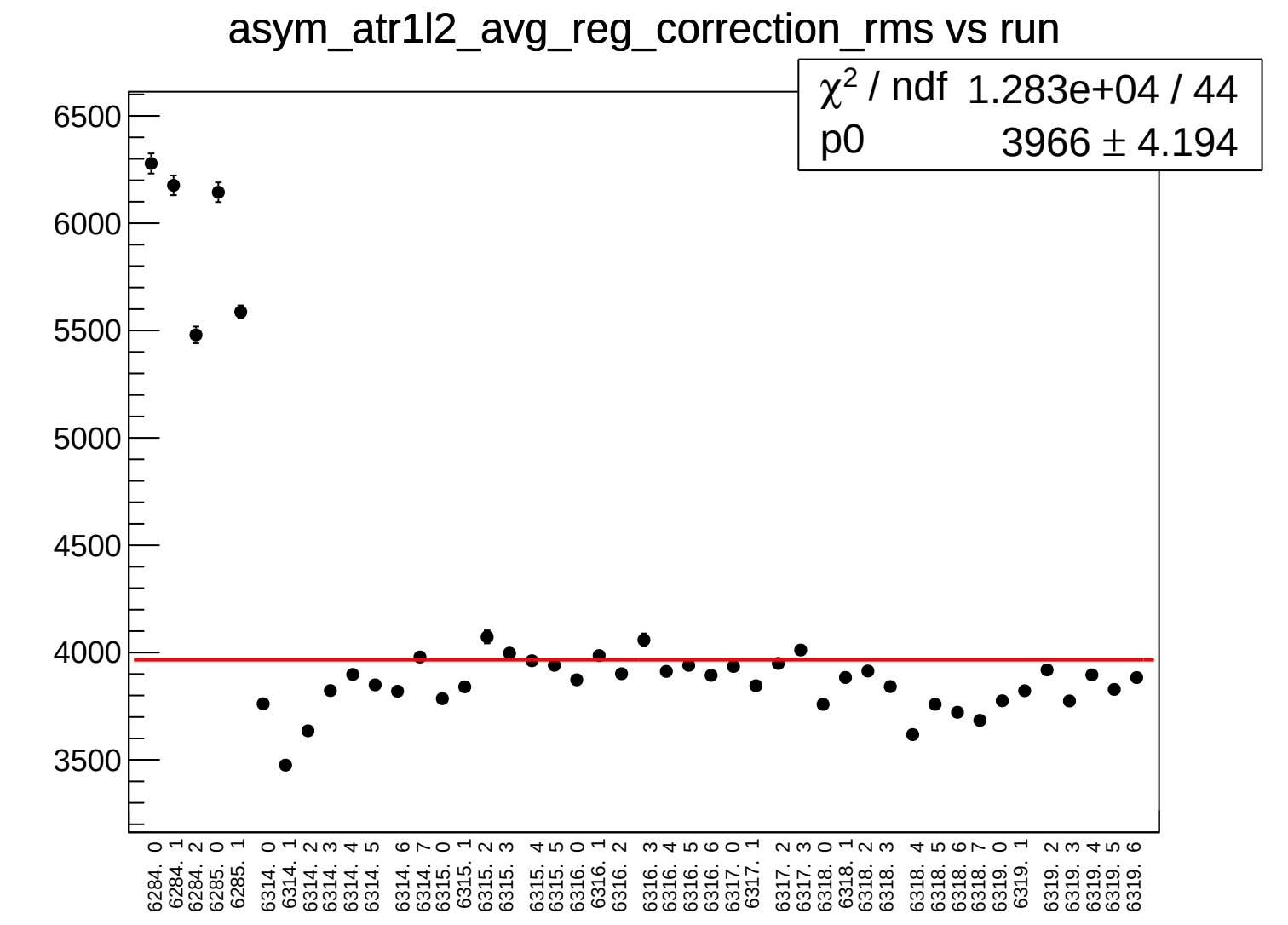

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.379e+05 / 44
p0 1.209e−10 ± 1.99e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

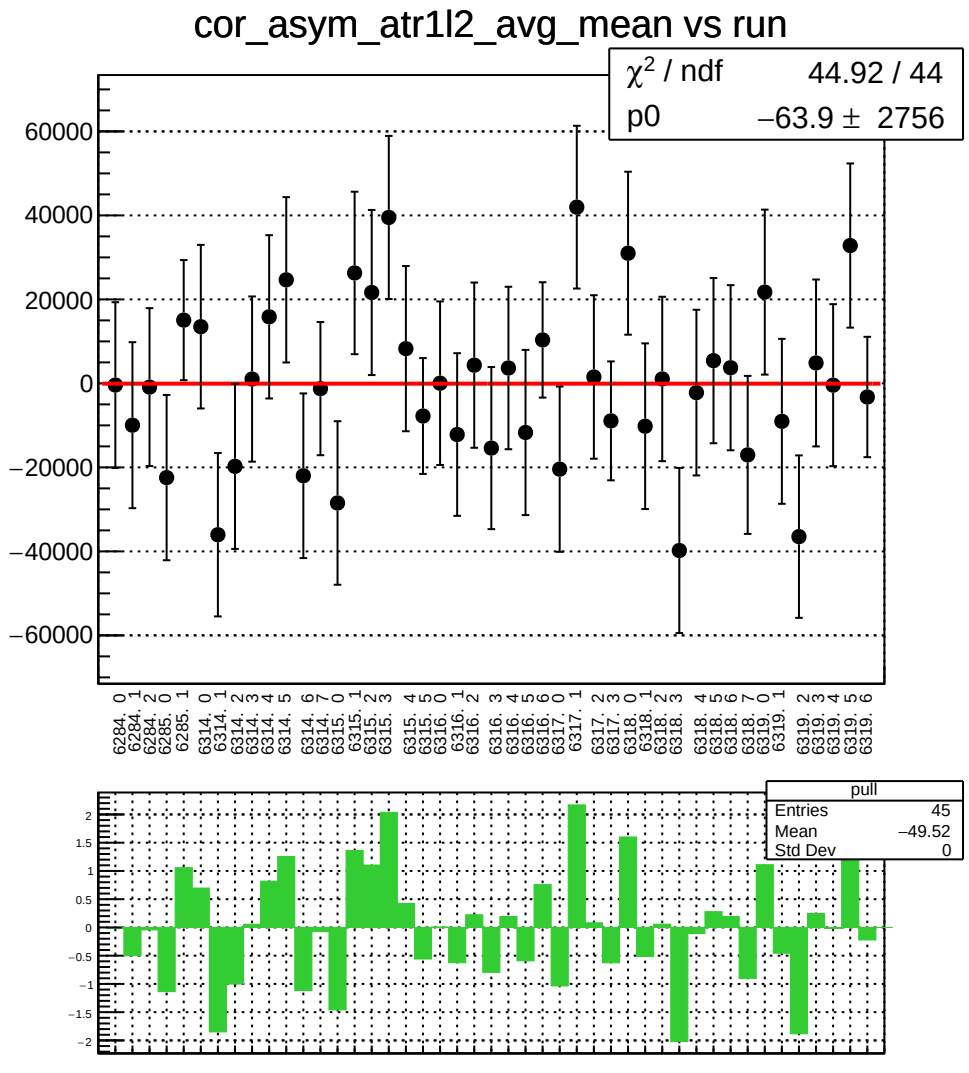

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 44.92 / 44
p0 −64.08 ± 2756
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −49.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003102
Std Dev 0.9991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

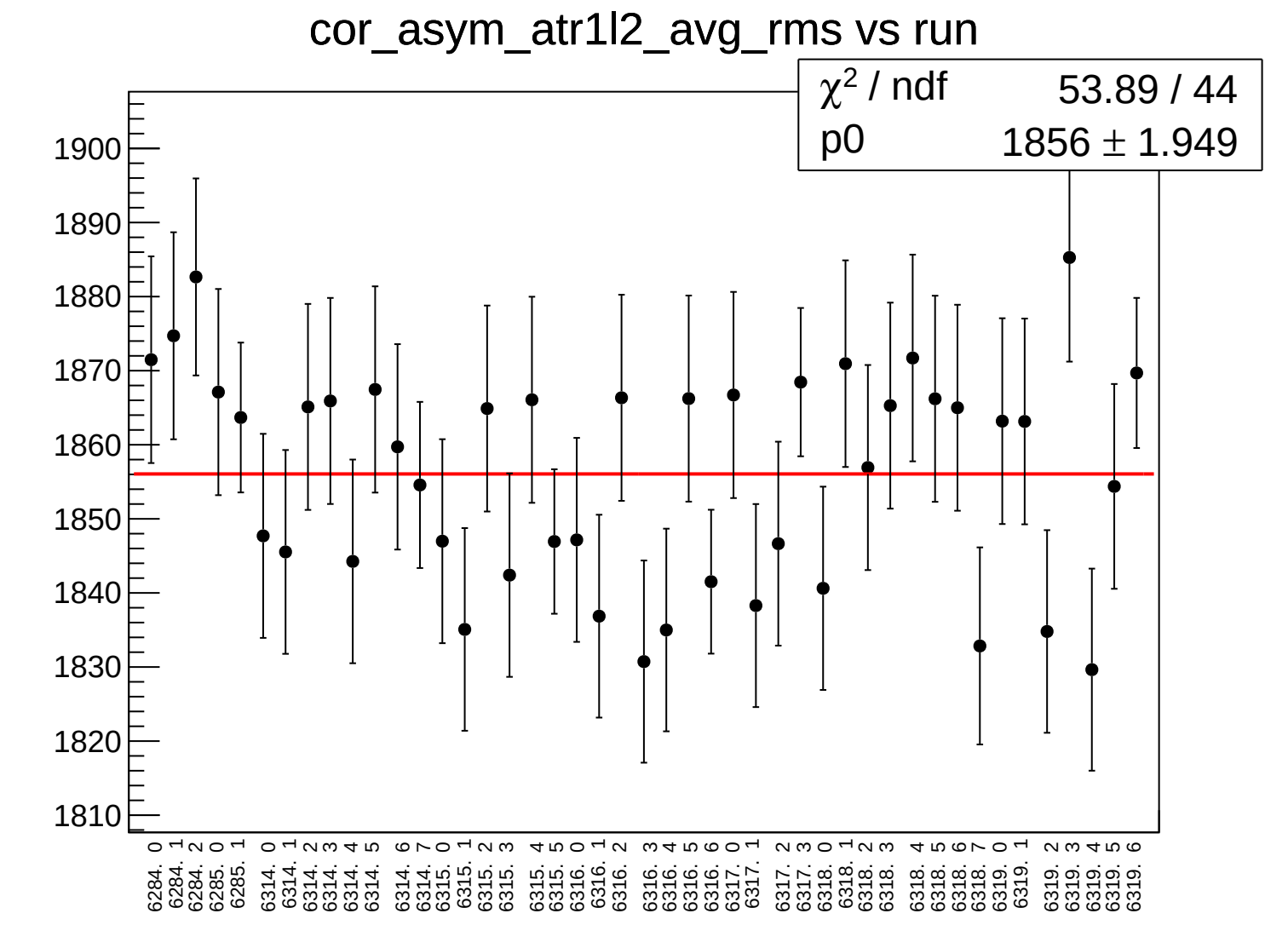

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 53.89 / 44
p0 1856 ± 1.949
1900
1890
1880
1870
1860
1850
1840
1830
1820
1810
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

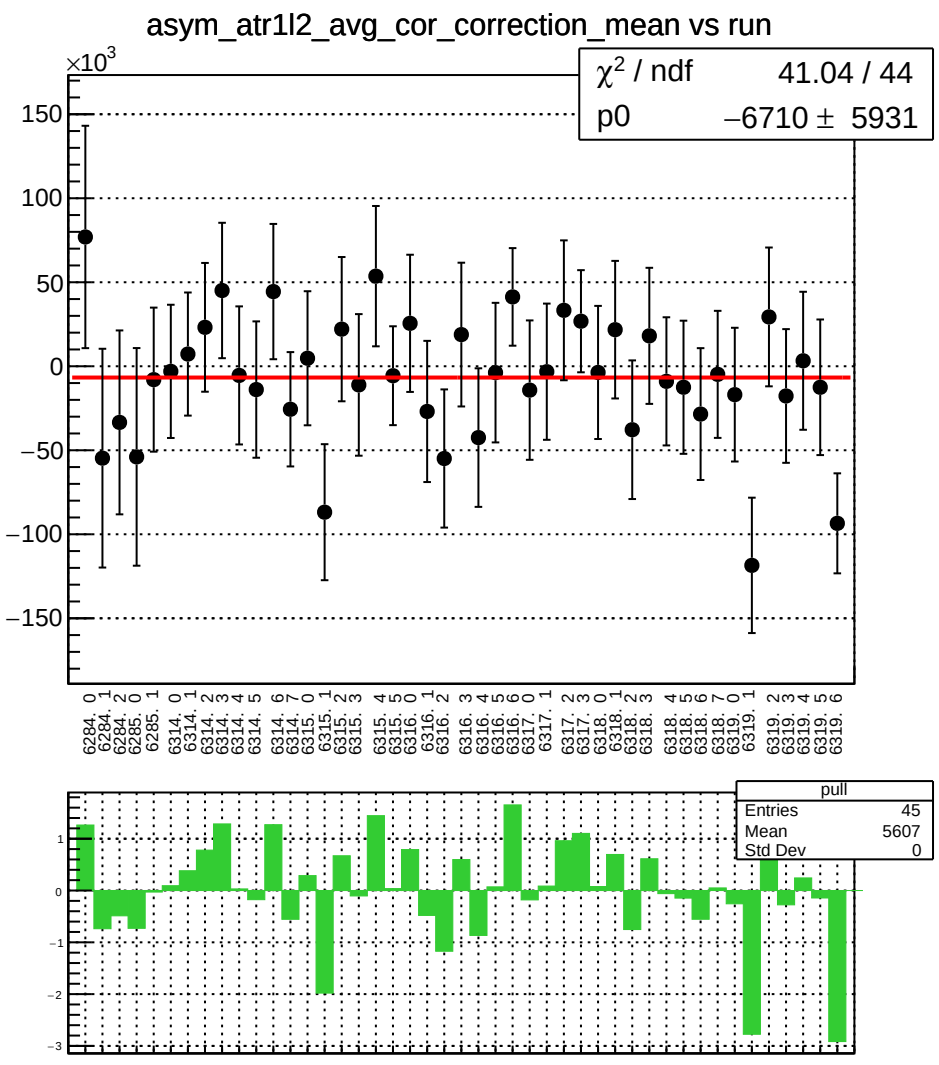

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.04 / 44
p0 −6710 ± 5932
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5631
Std Dev 0
1
0
−1
−2
−3

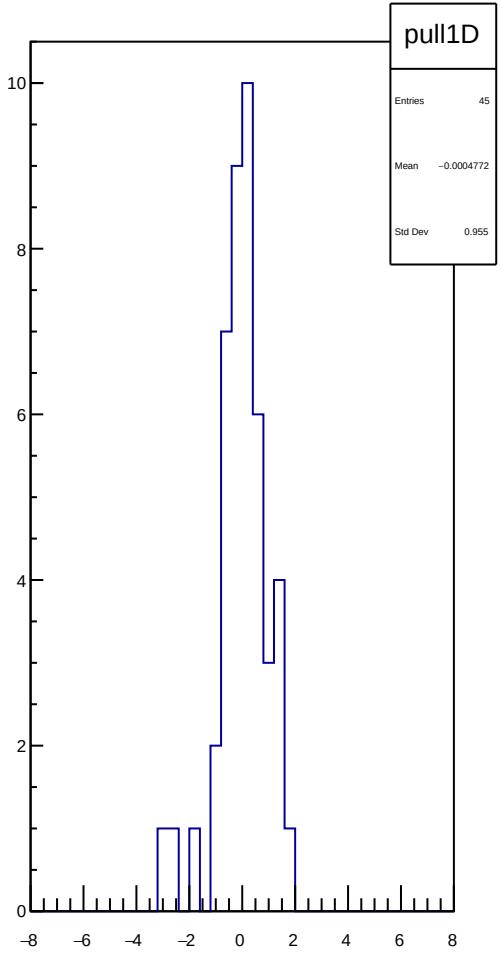

pull1D
Entries 45
Mean −0.0004752
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

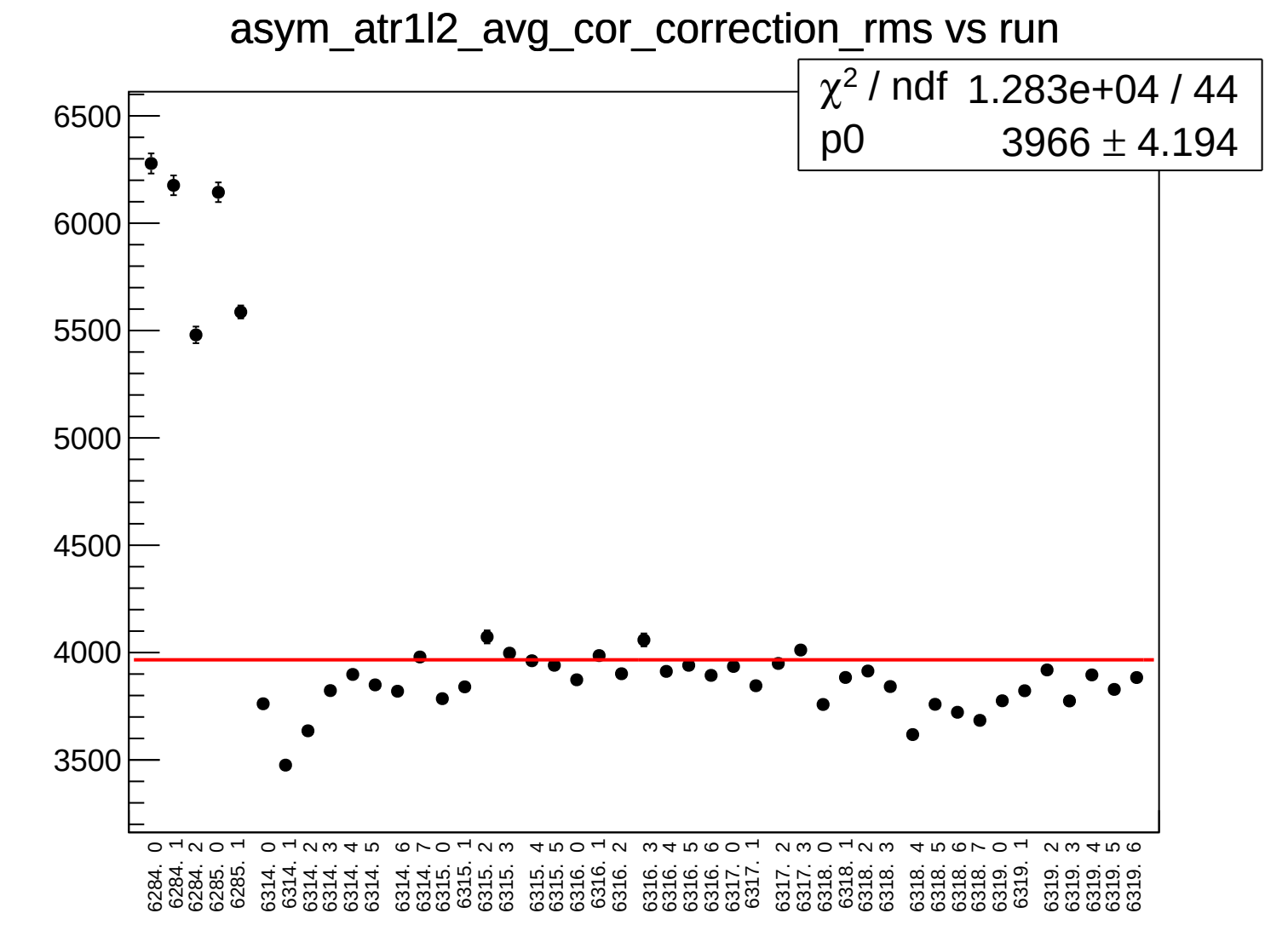

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.283e+04 / 44
p0 3966 ± 4.194
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

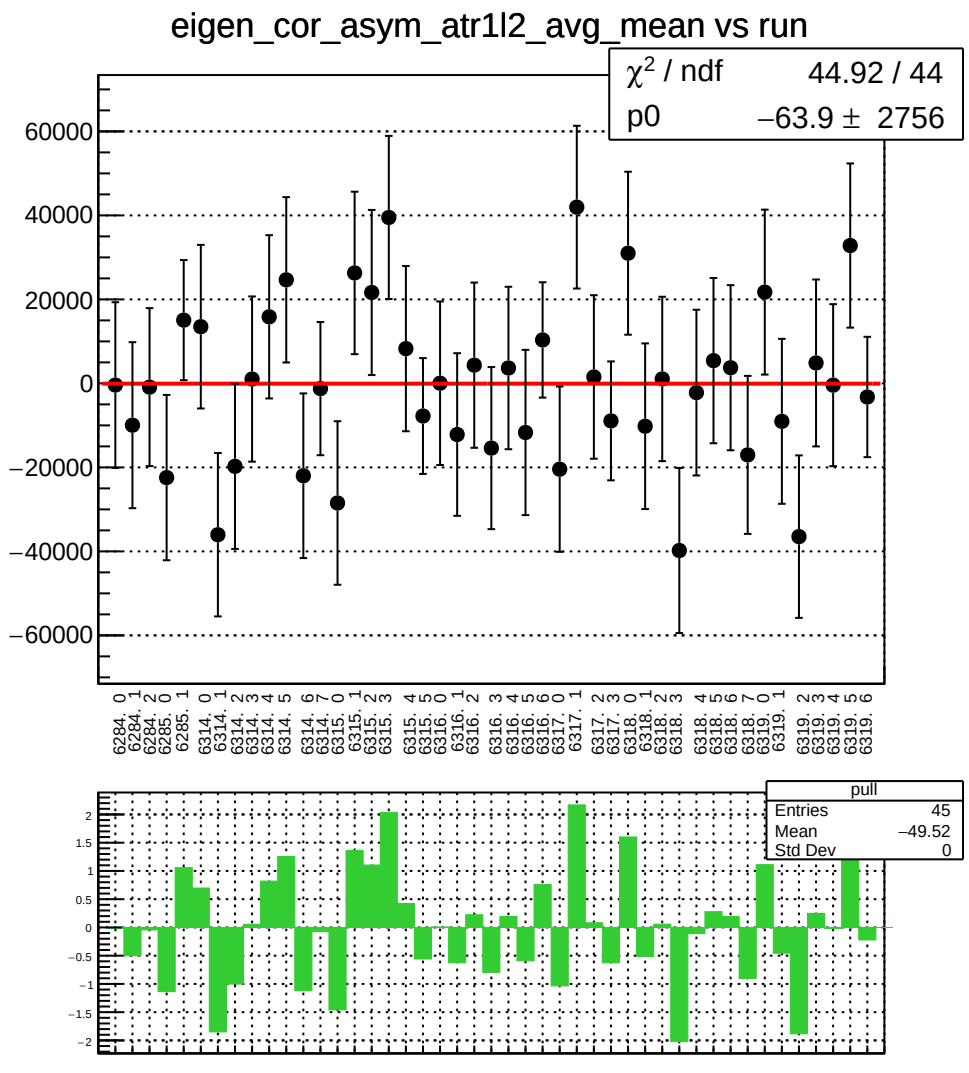

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 44.92 / 44
p0 −63.9 ± 2756
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003102
Std Dev 0.9991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

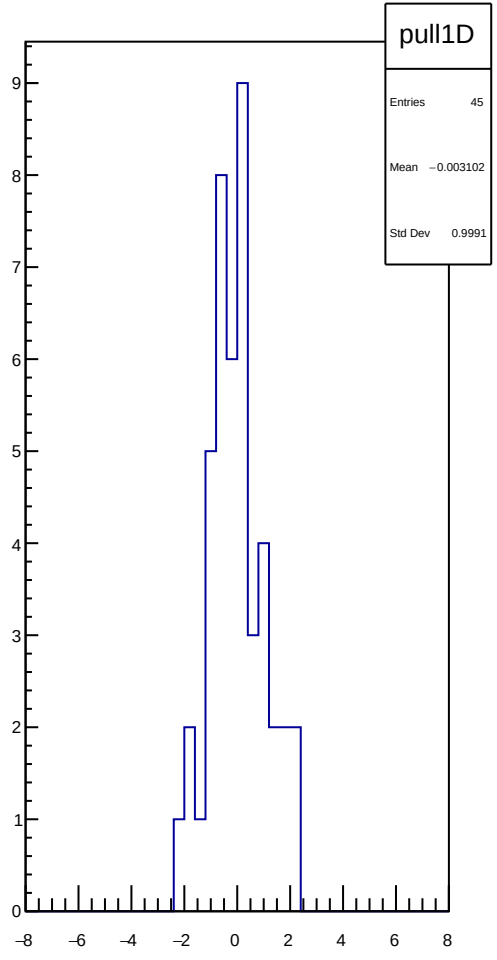

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 53.89 / 44
p0 1856 ± 1.949
1900
1890
1880
1870
1860
1850
1840
1830
1820
1810
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

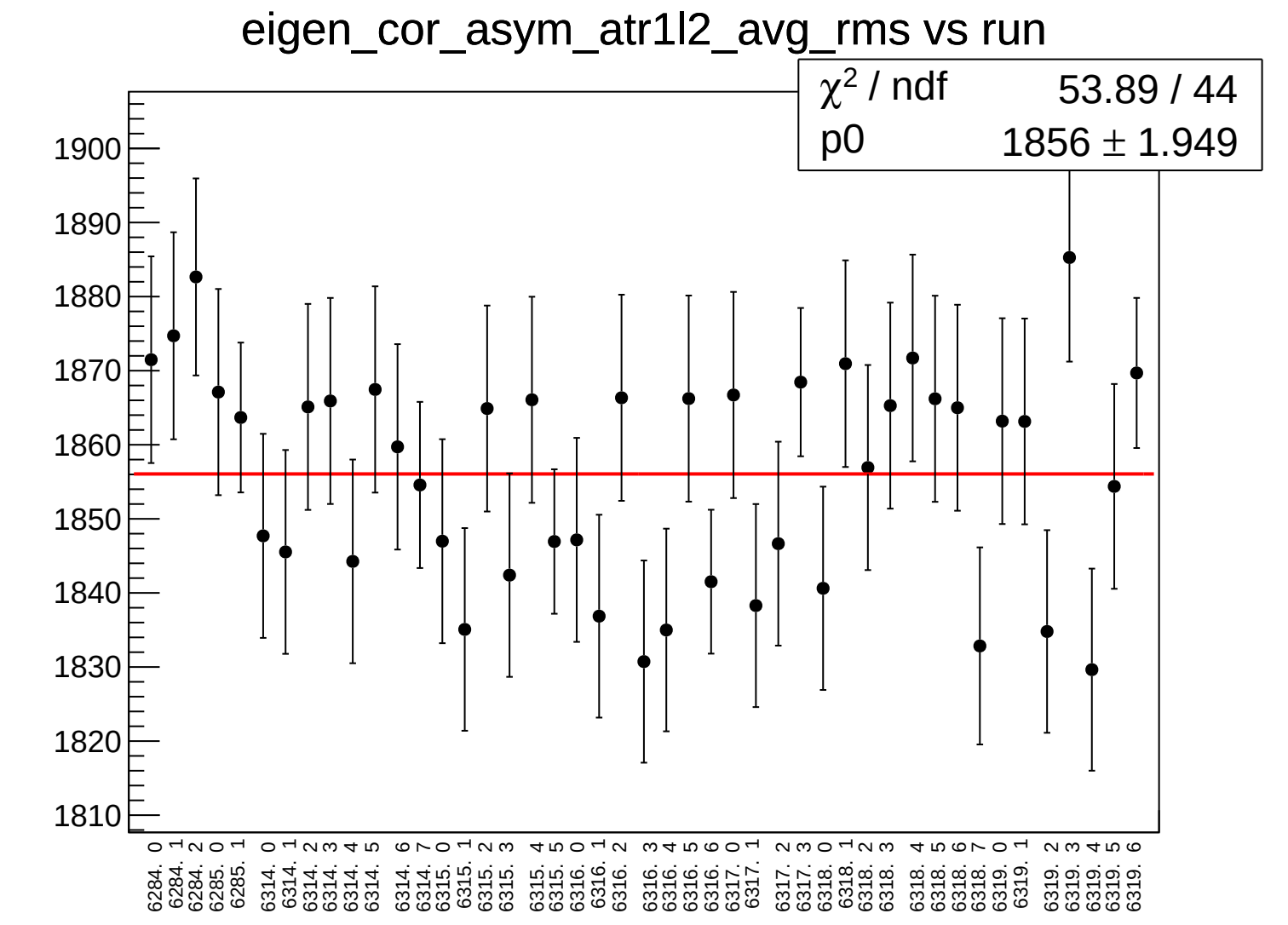

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.04 / 44
p0 −6710 ± 5931
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5607
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0004772
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.283e+04 / 44
p0 3966 ± 4.194
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 44.92 / 44
p0 −63.9 ± 2756
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.003102
Std Dev 0.9991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 53.89 / 44
p0 1856 ± 1.949
1900
1890
1880
1870
1860
1850
1840
1830
1820
1810
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
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6315. 4
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6316. 5
6316. 6
6317. 0
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6318. 0
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6318. 2
6318. 3
6318. 4
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6318. 7
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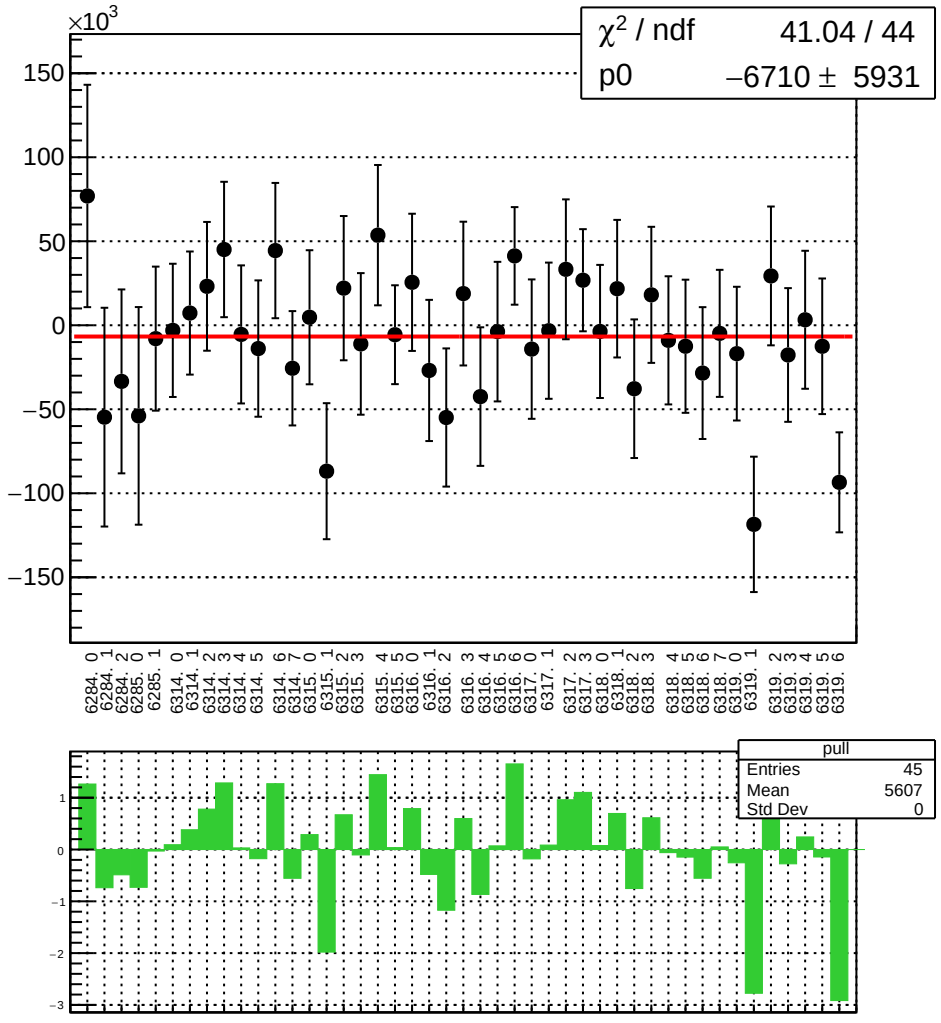
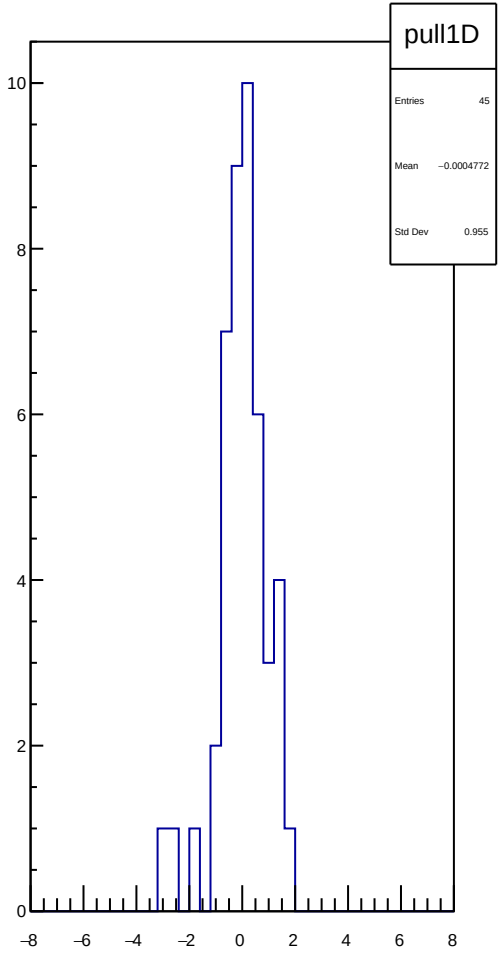
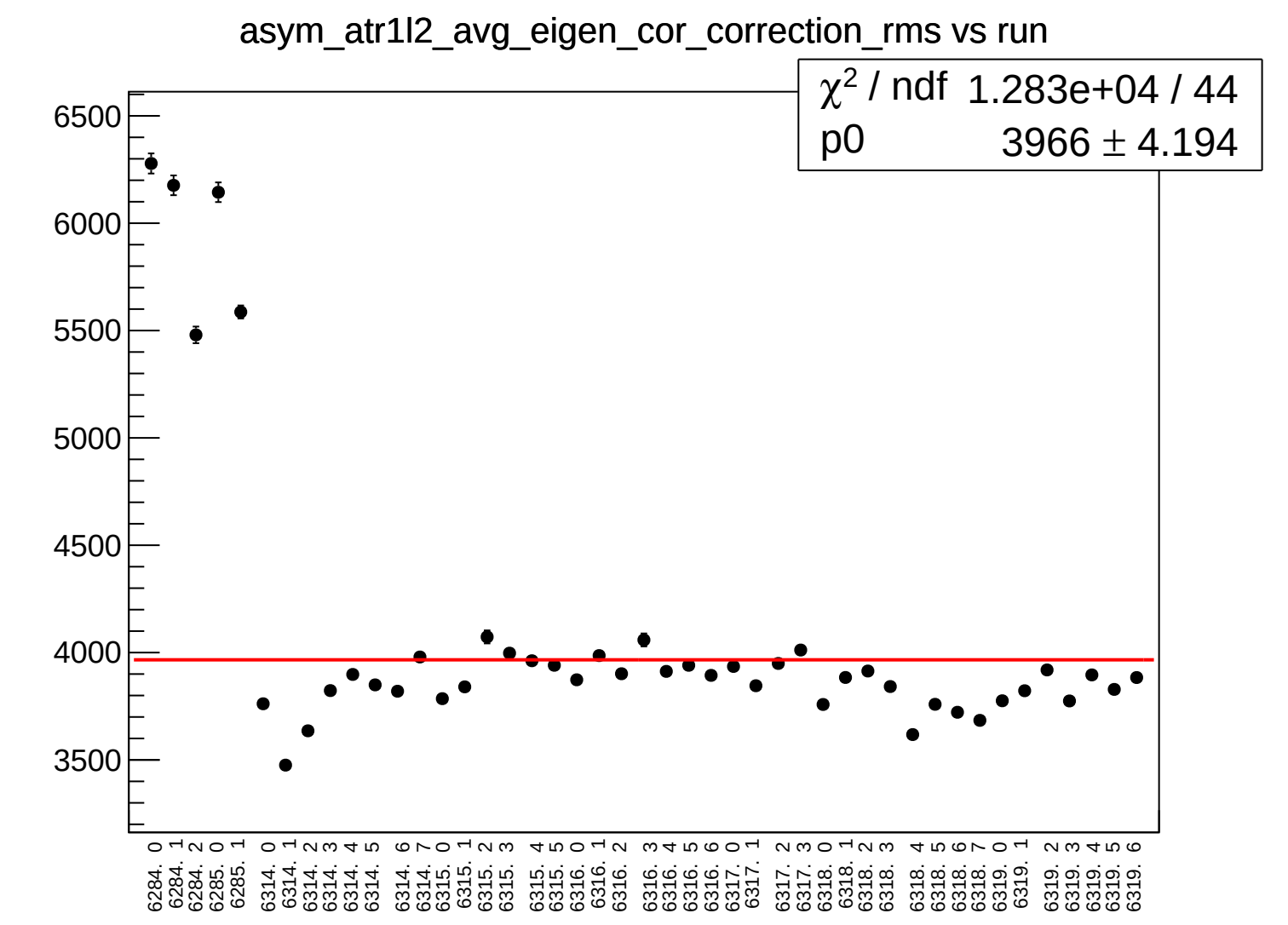
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.04 / 44
p0 −6710 ± 5931
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5607
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0004772
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.283e+04 / 44
p0 3966 ± 4.194
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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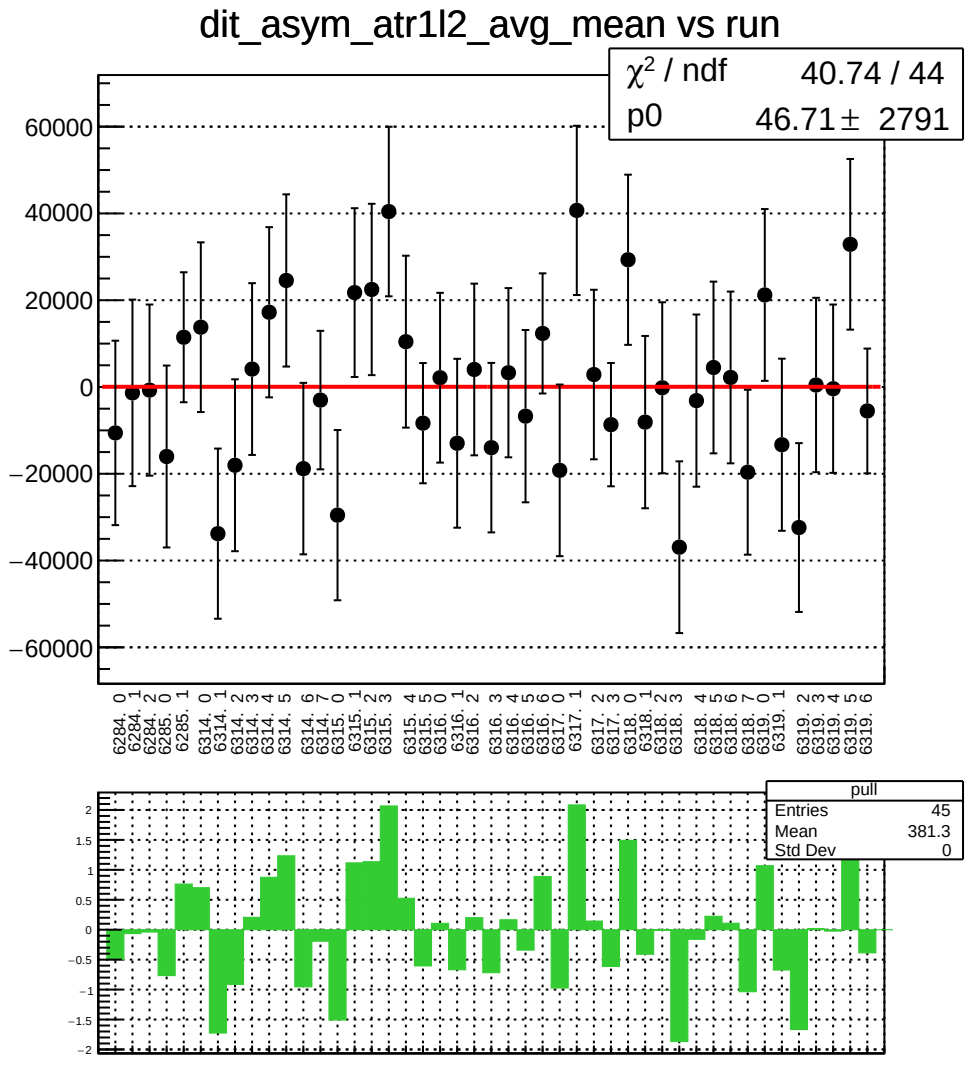
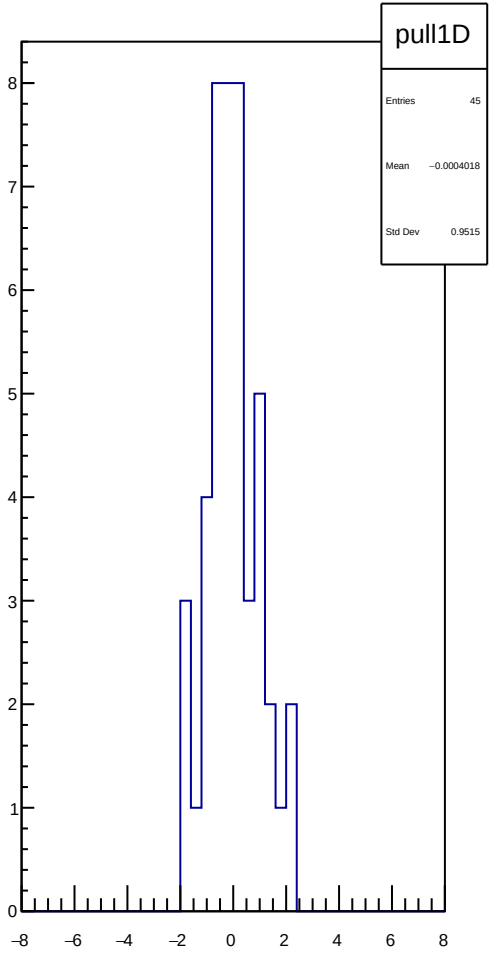
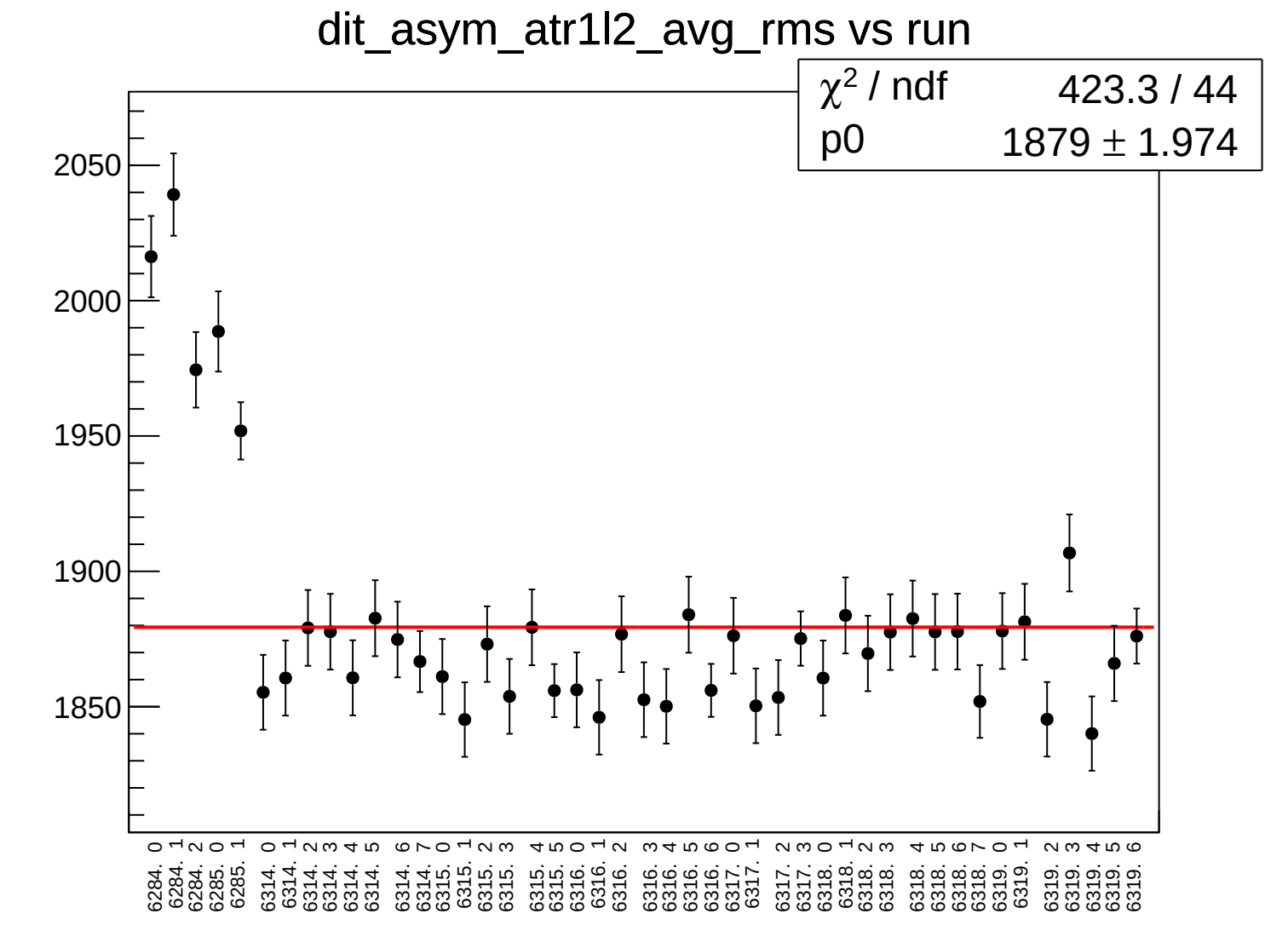
6319. 5
6319. 6


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 40.74 / 44
p0 46.71 ± 2791
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 381.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0004018
Std Dev 0.9515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_avg_rms vs run
χ² / ndf 423.3 / 44
p0 1879 ± 1.974
2050
2000
1950
1900
1850
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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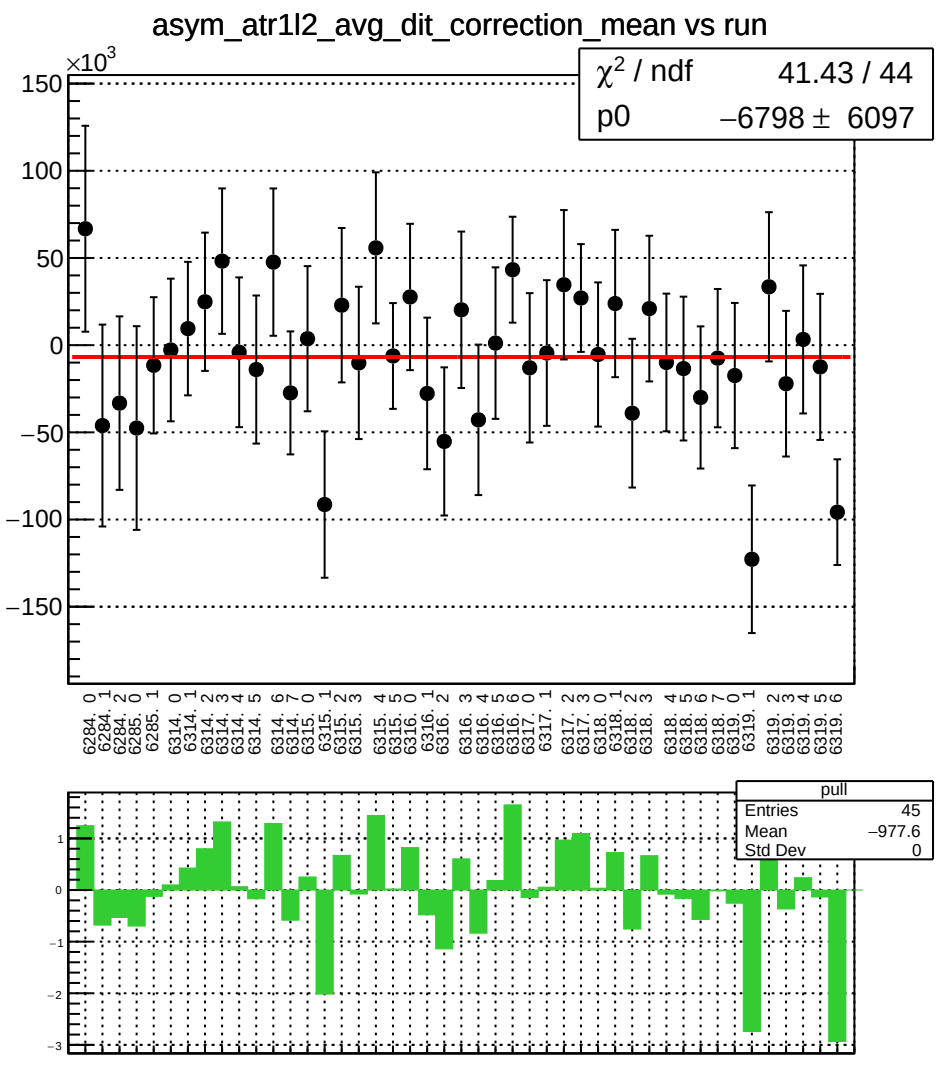
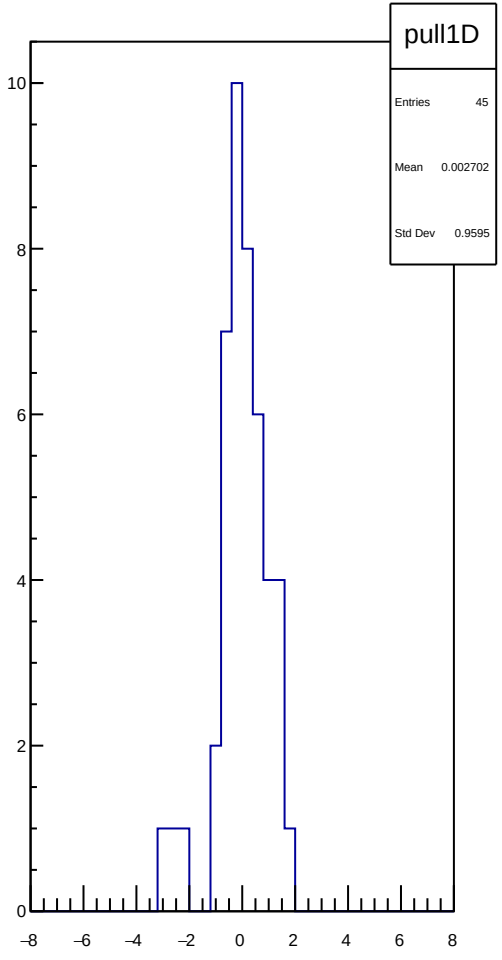
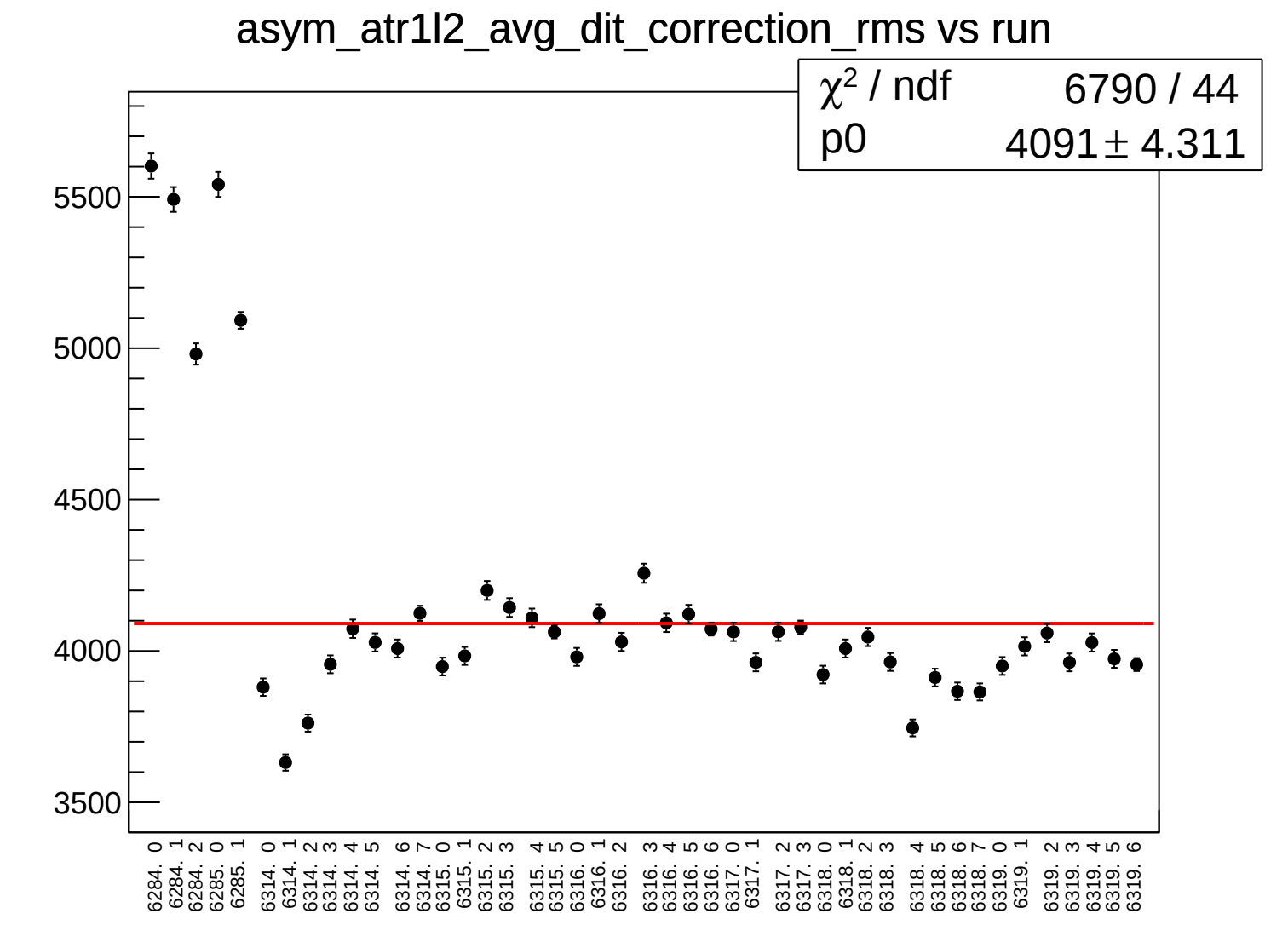
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.43 / 44
p0 −6798 ± 6097
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −977.6
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002702
Std Dev 0.9595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 6790 / 44
p0 4091 ± 4.311
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
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6315. 0
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6315. 2
6315. 3
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6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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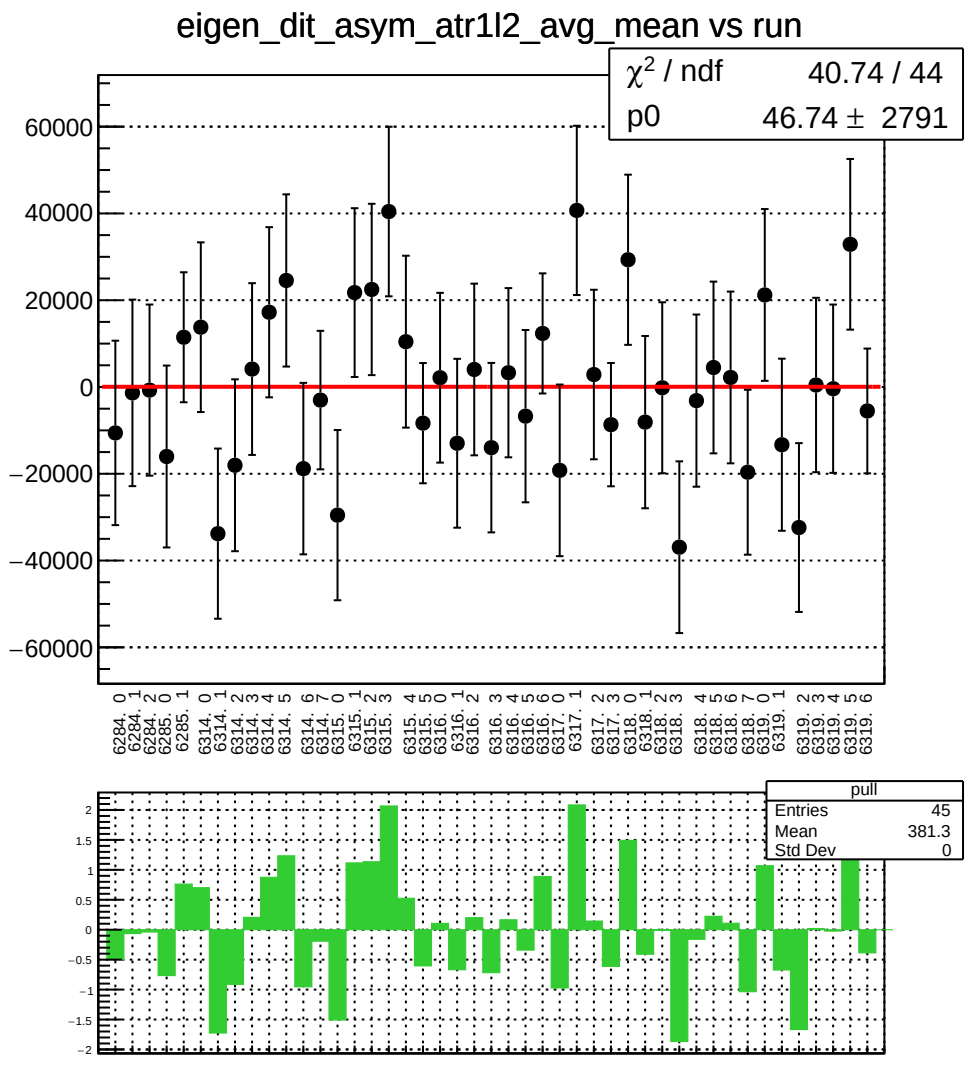
6319. 6


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 40.74 / 44
p0 46.74 ± 2791
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 381.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0004018
Std Dev 0.9515
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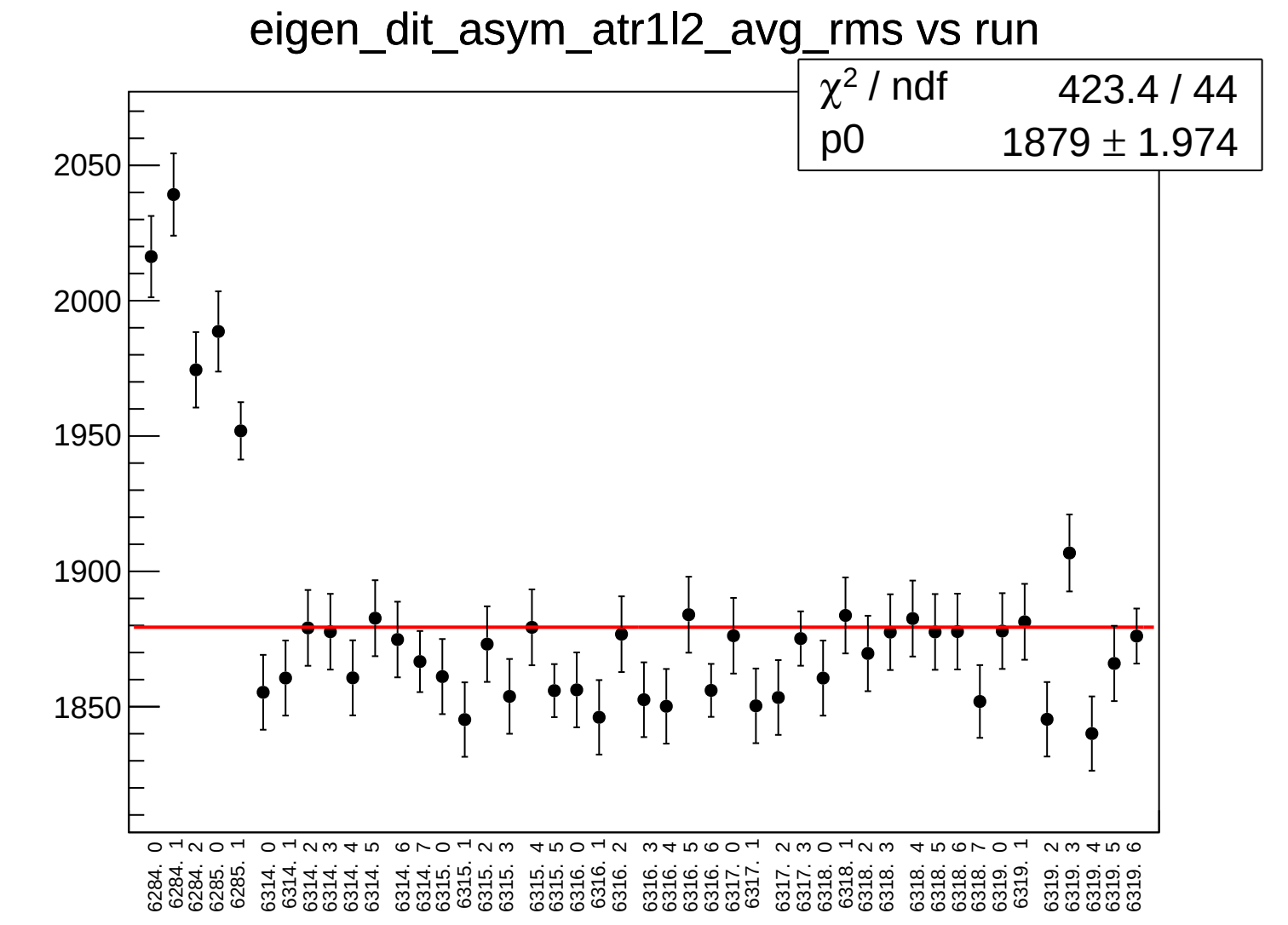
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_avg_rms vs run
χ^2 / ndf 423.4 / 44
p0 1879 ± 1.974
2050
2000
1950
1900
1850
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
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6314. 7
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6315. 1
6315. 2
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6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
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6317. 2
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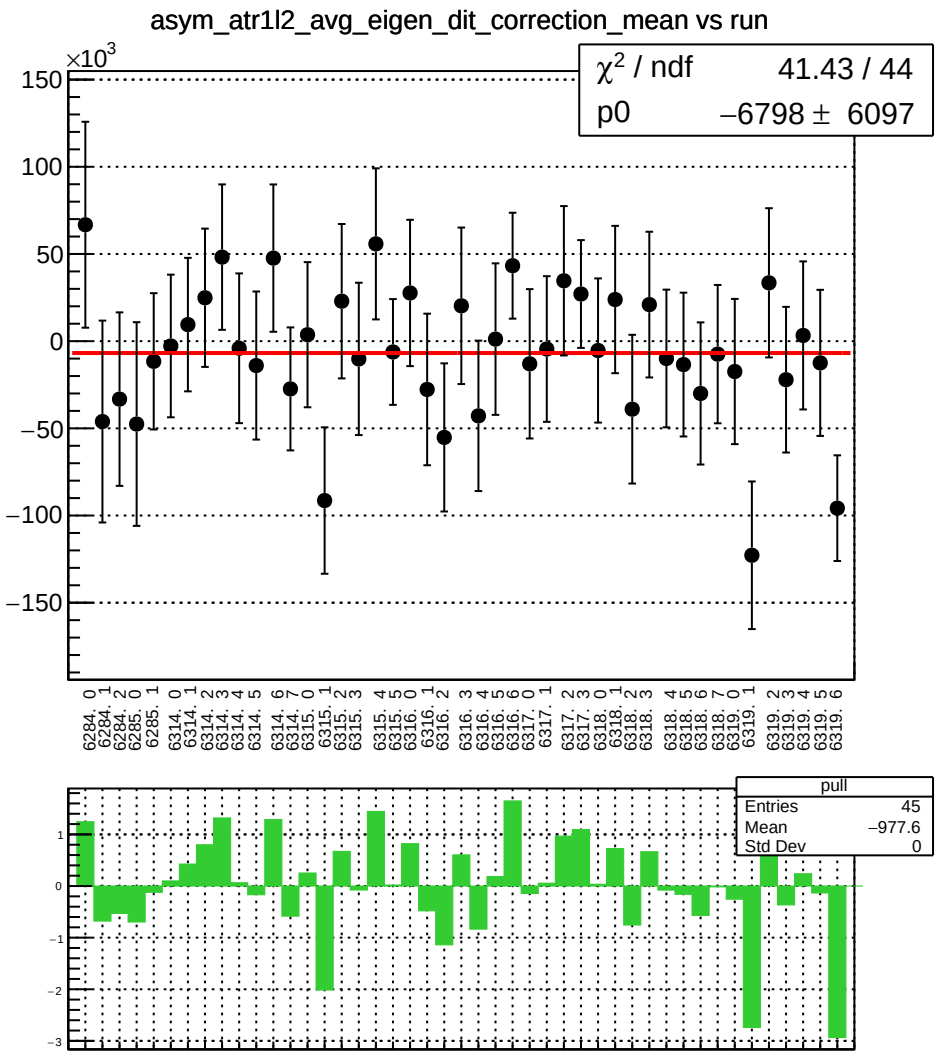
6319. 6


asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.43 / 44
p0 −6798 ± 6097
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 7
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6315. 5
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6316. 1
6316. 2
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6316. 6
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6317. 2
6317. 3
6318. 0
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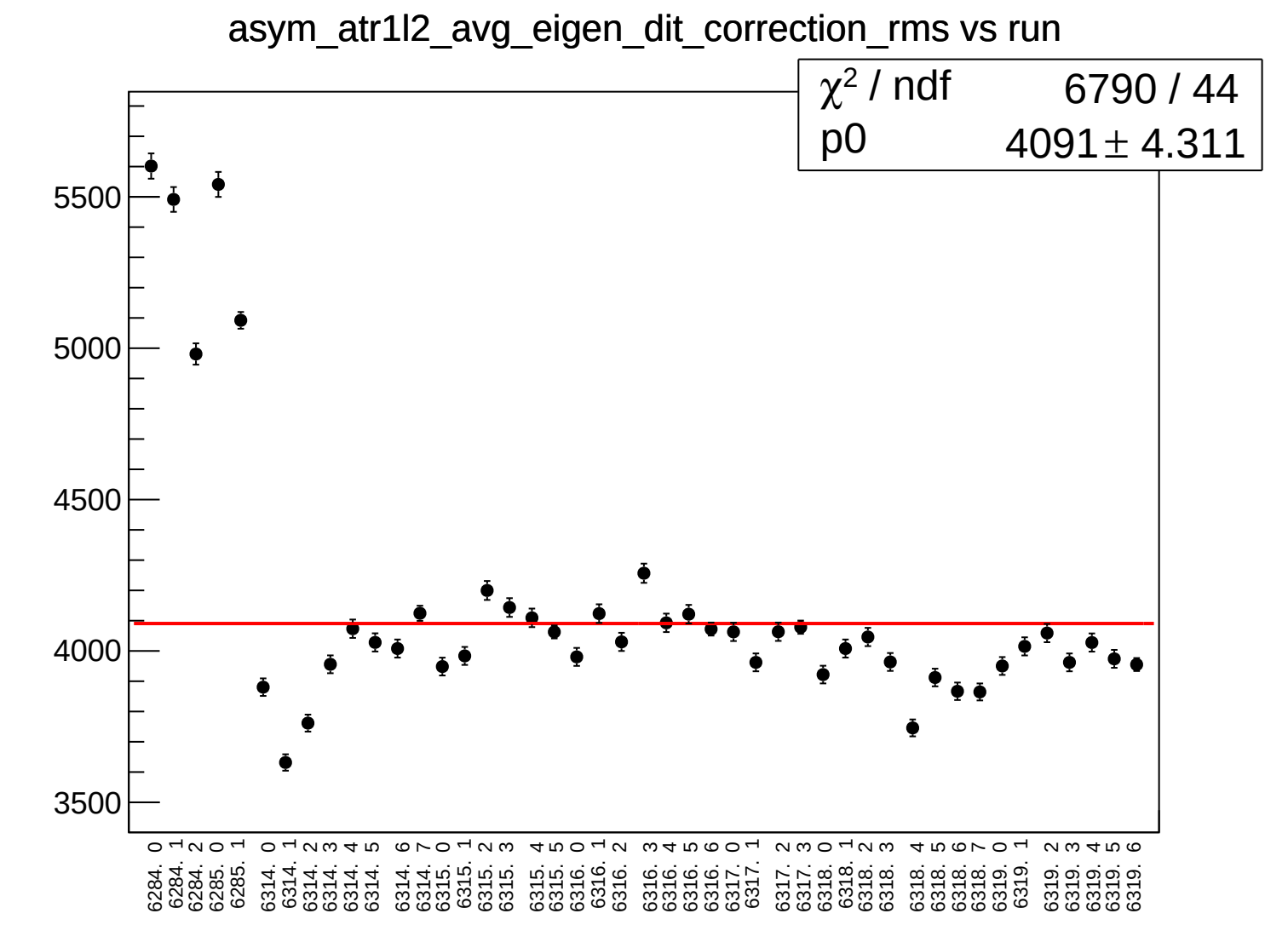
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −977.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.002702
Std Dev 0.9595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6790 / 44
p0 4091 ± 4.311
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6315. 2
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6316. 0
6316. 1
6316. 2
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6316. 6
6317. 0
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6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
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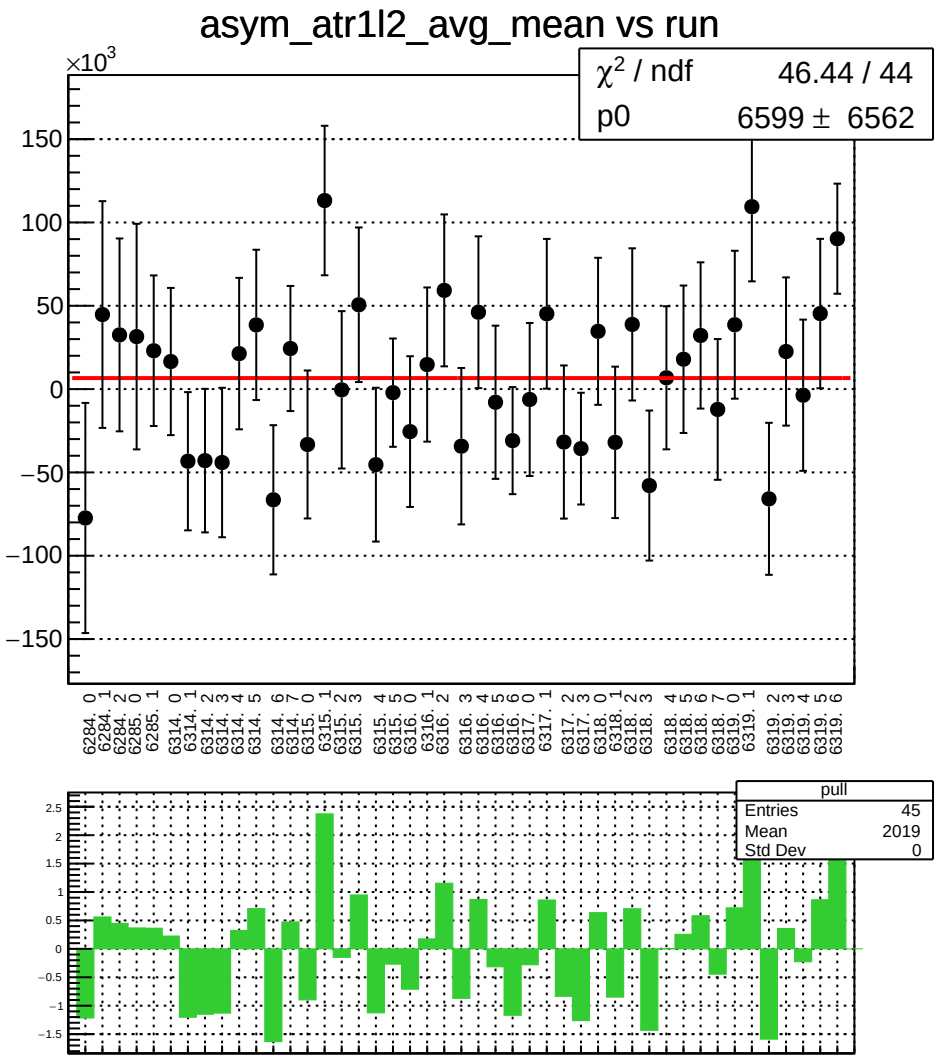
6319. 5
6319. 6


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 46.44 / 44
p0 6599 ± 6562
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6318. 3
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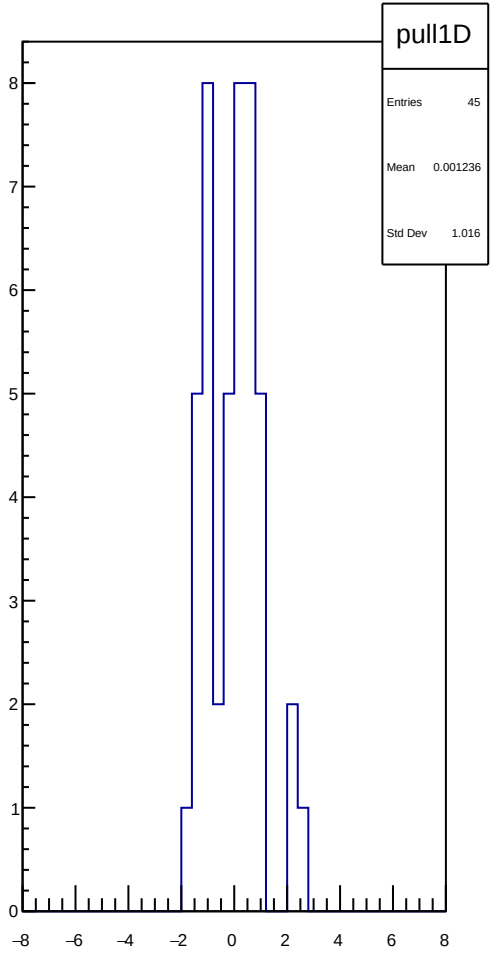
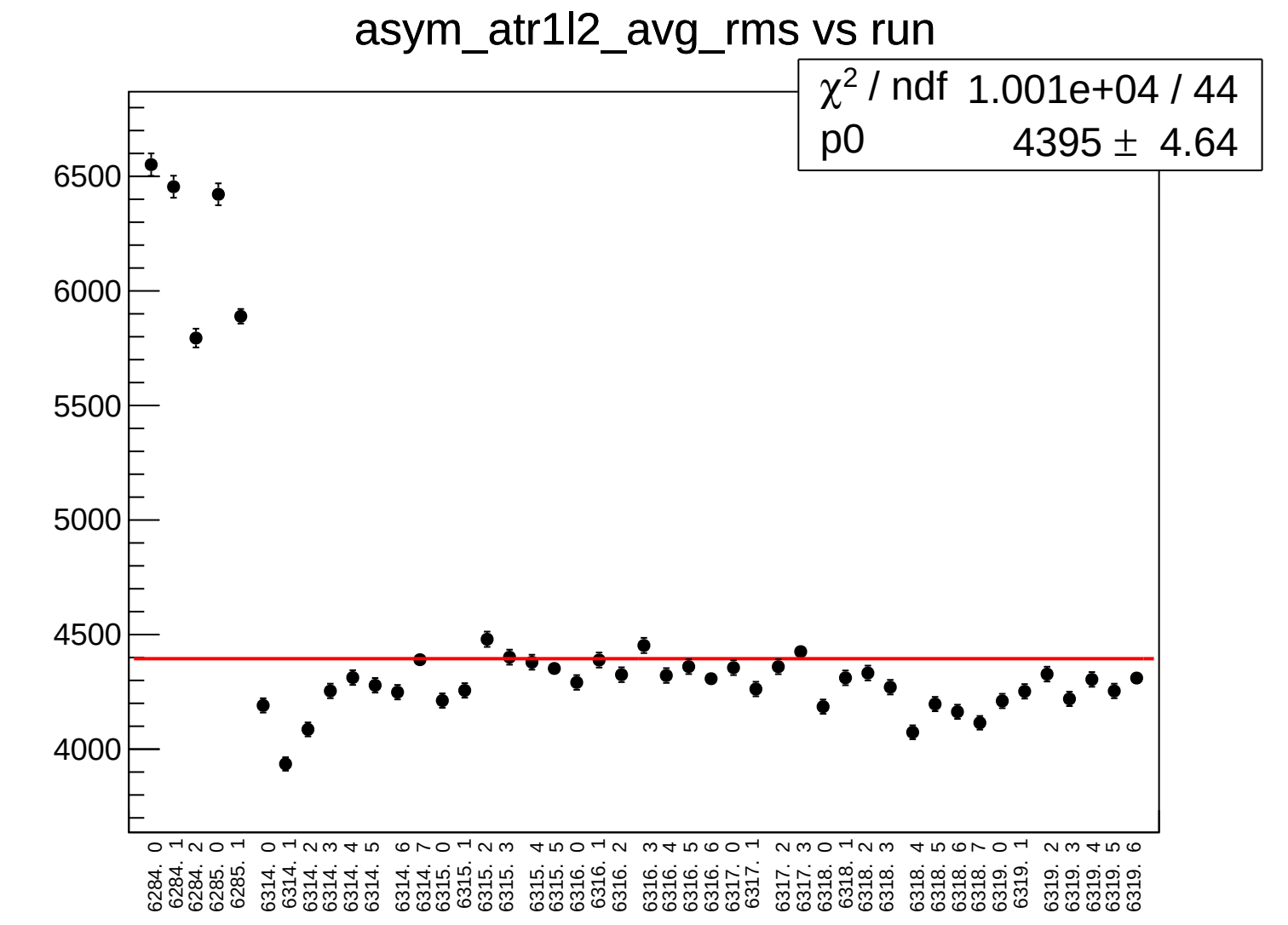
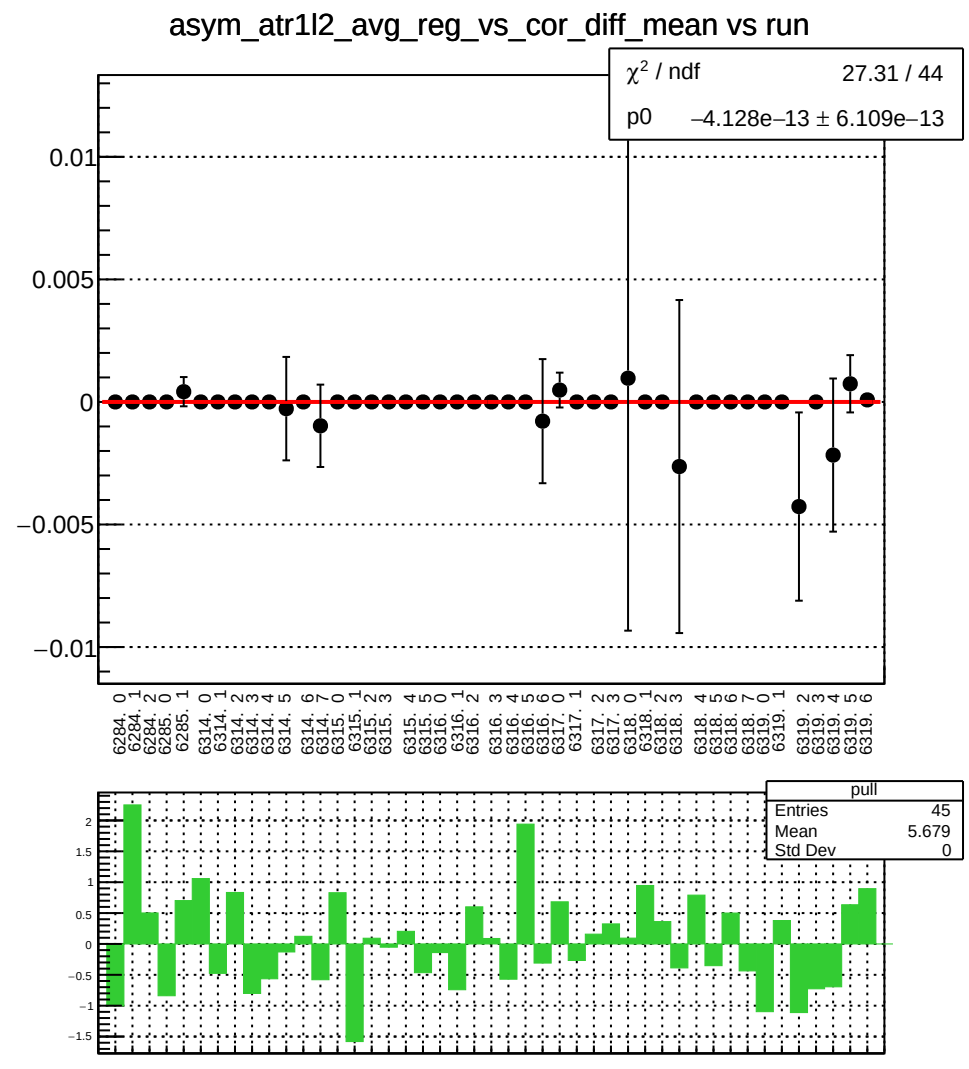
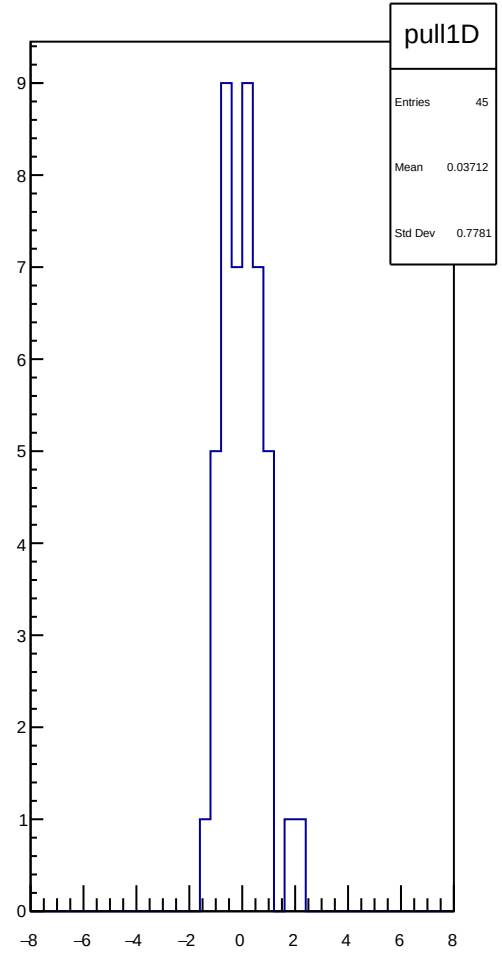
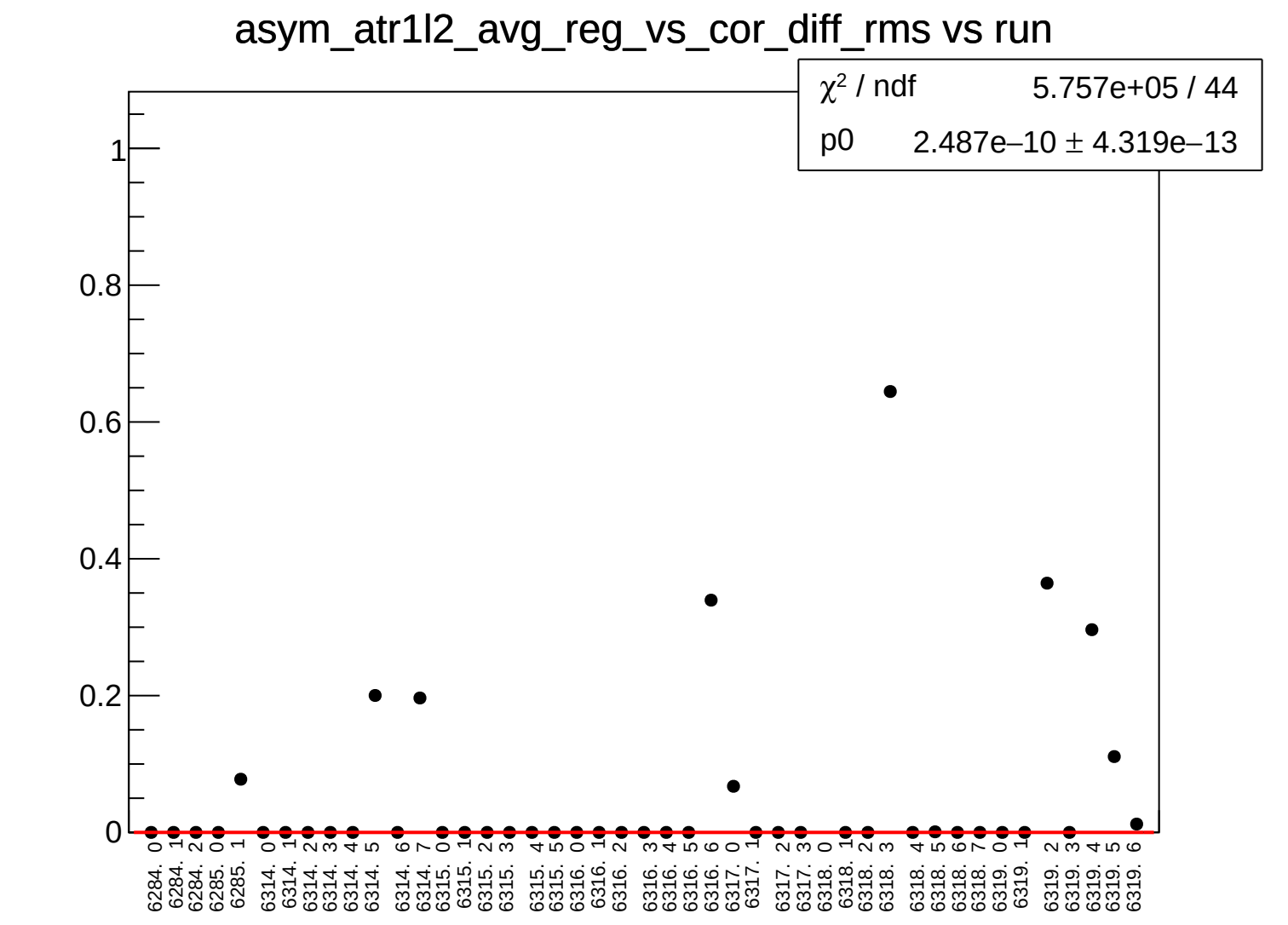
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2019
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

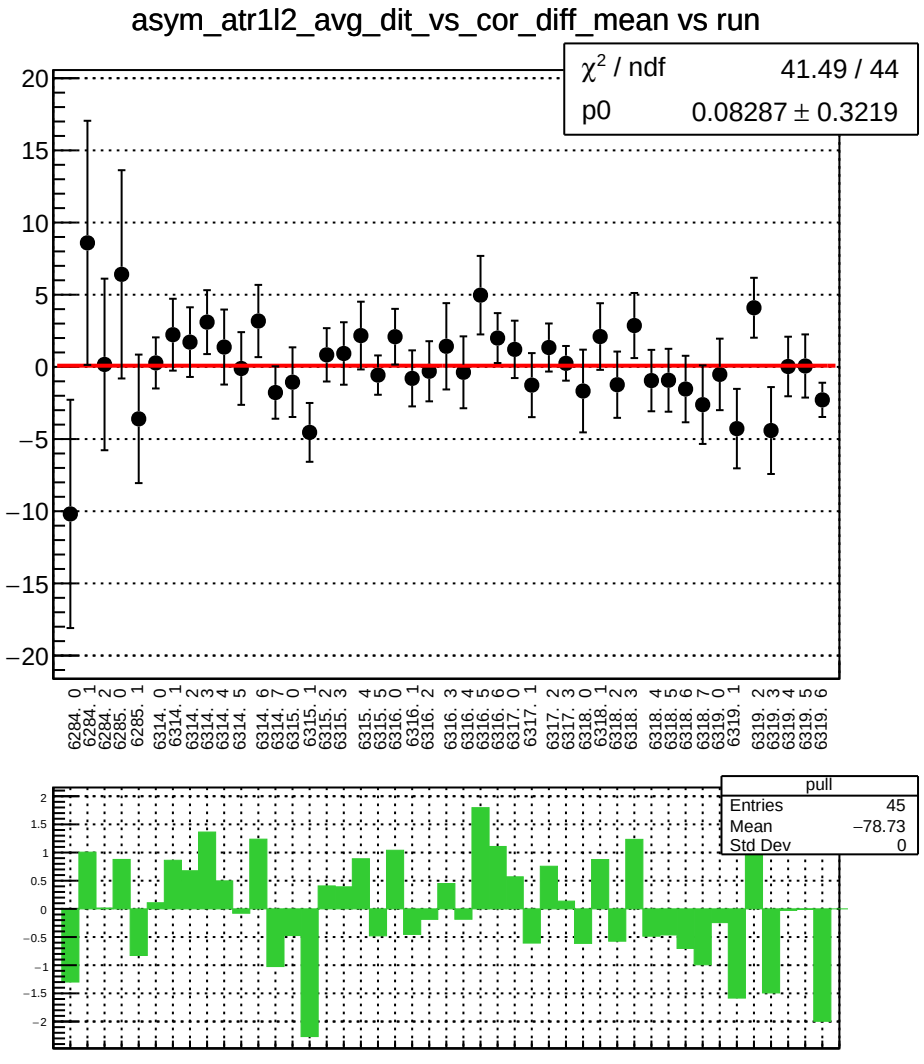

pull1D
Entries 45
Mean 0.001236
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

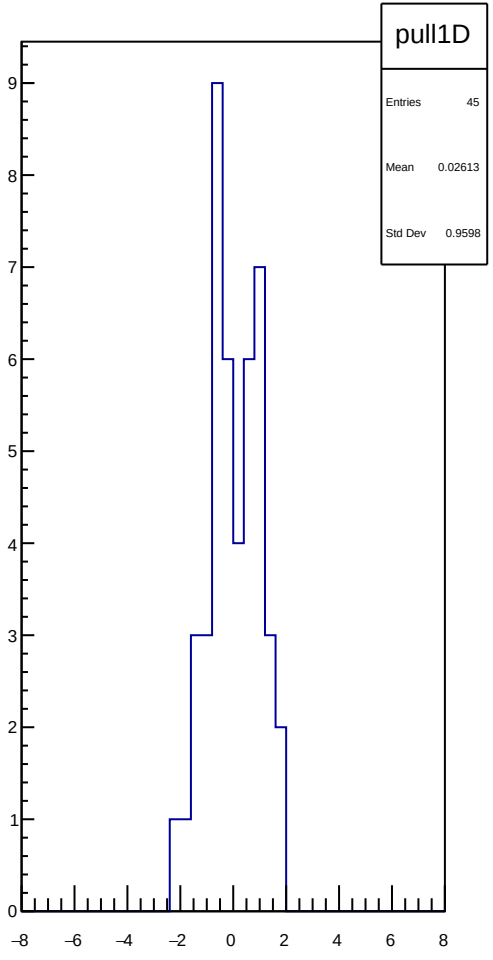

asym_atr1l2_avg_rms vs run
χ² / ndf 1.001e+04 / 44
p0 4395 ± 4.64
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

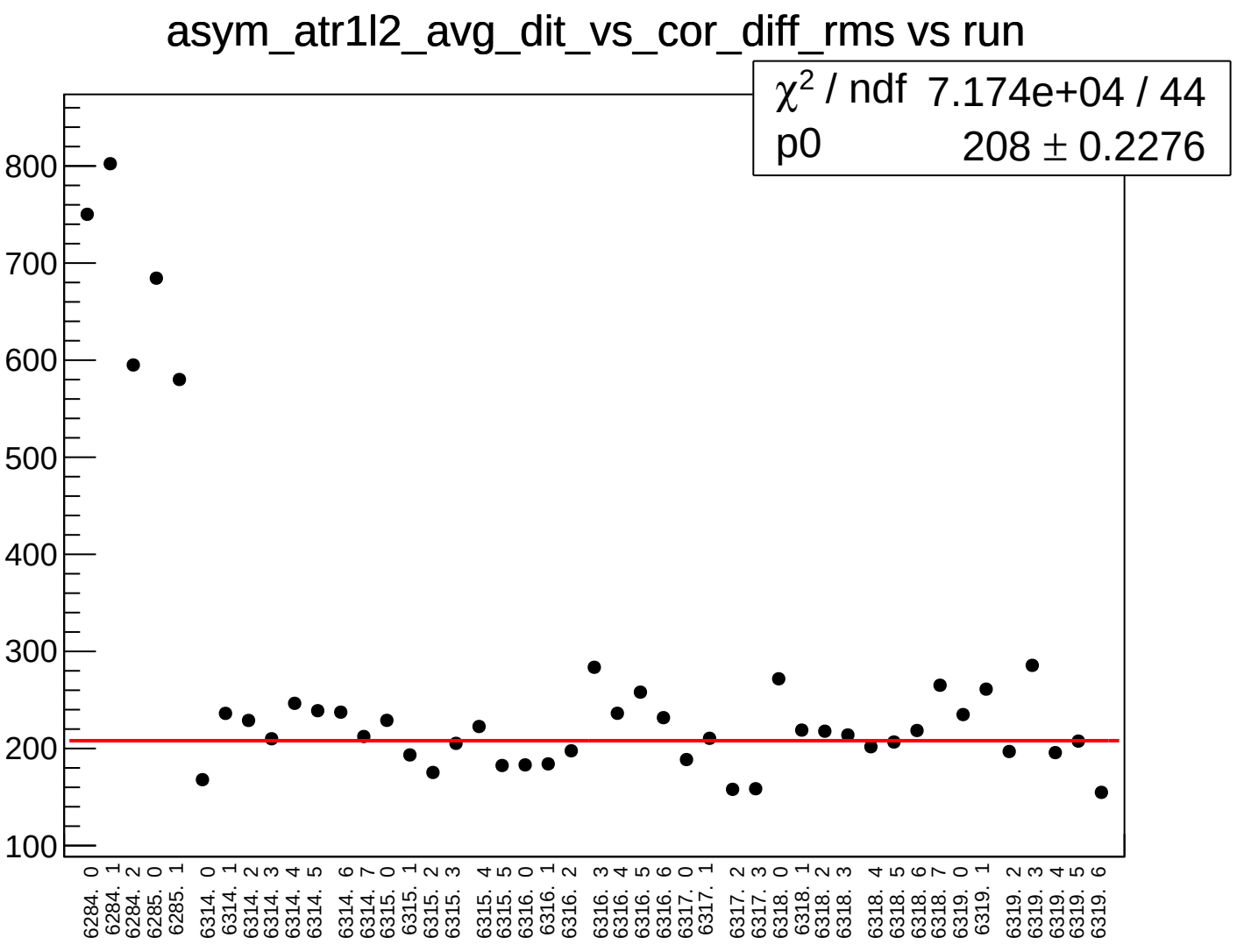

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.31 / 44
p0 −4.128e−13 ± 6.109e−13
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5.679
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

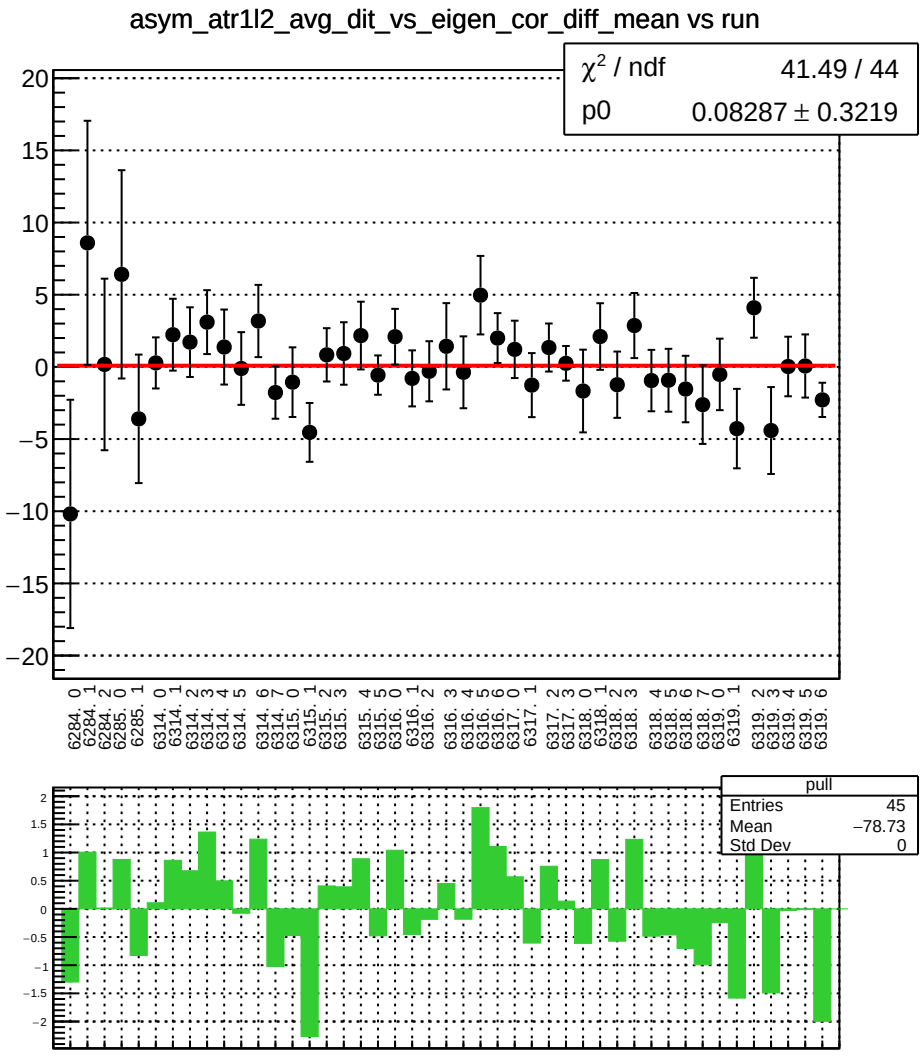

pull1D
Entries 45
Mean 0.03712
Std Dev 0.7781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

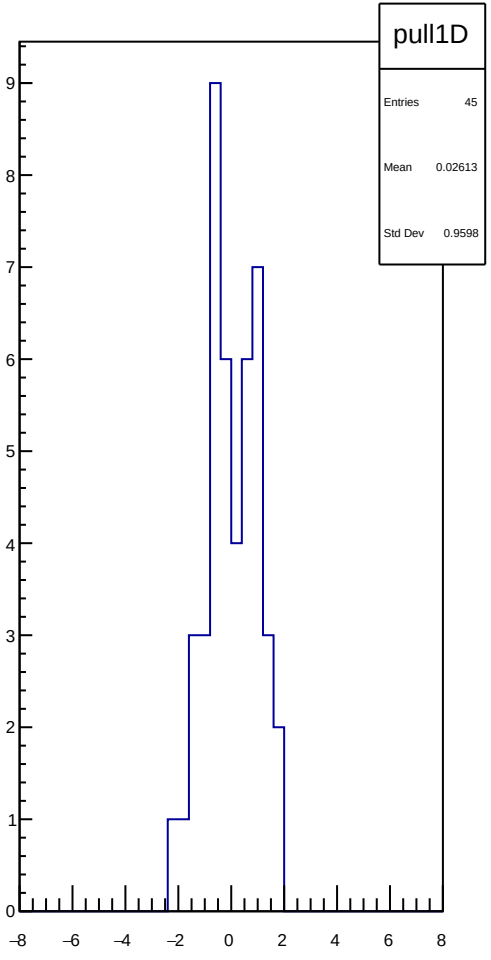

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.757e+05 / 44
p0 2.487e−10 ± 4.319e−13
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

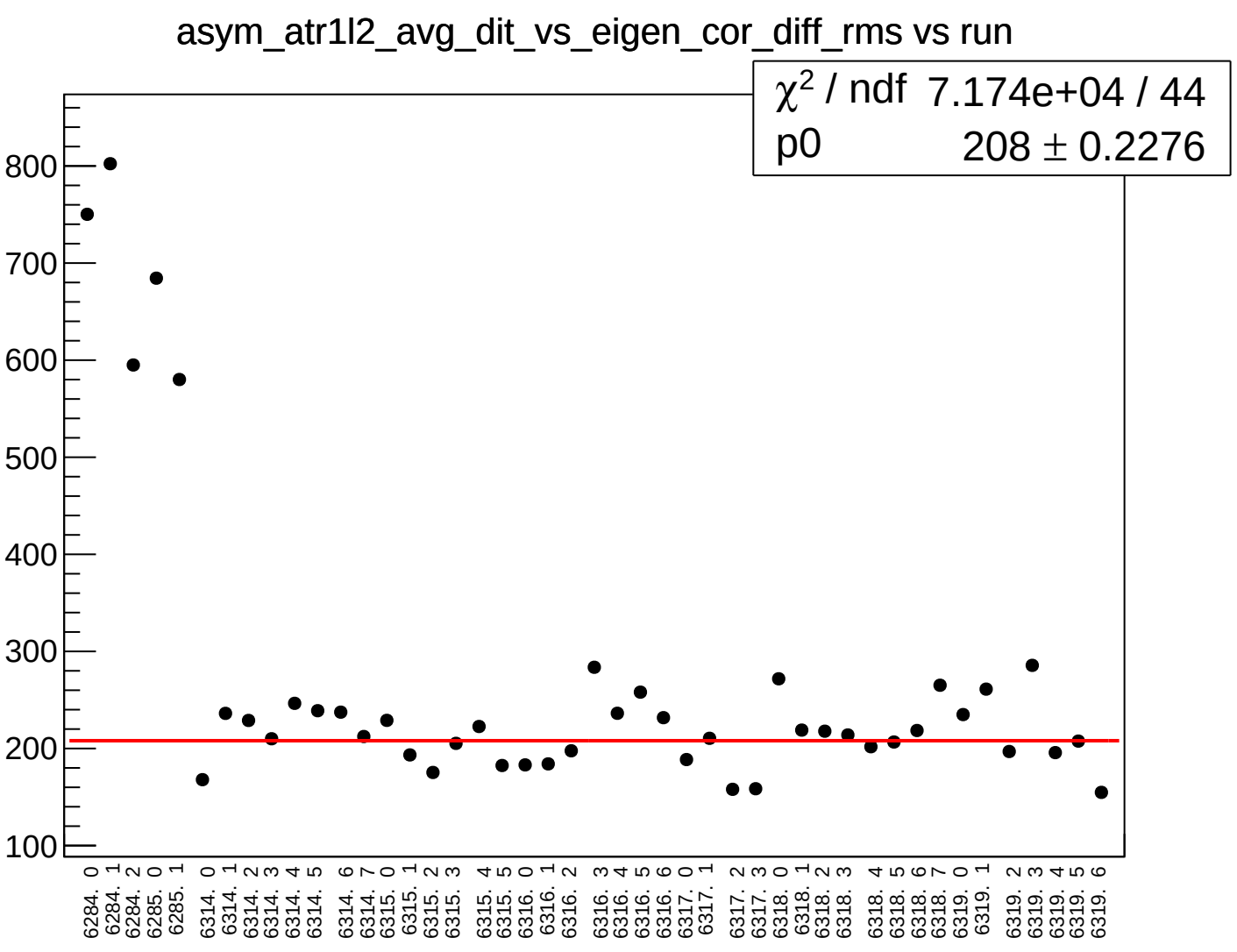

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.49 / 44
p0 0.08287 ± 0.3219
pull
Entries 45
Mean −78.73
Std Dev 0

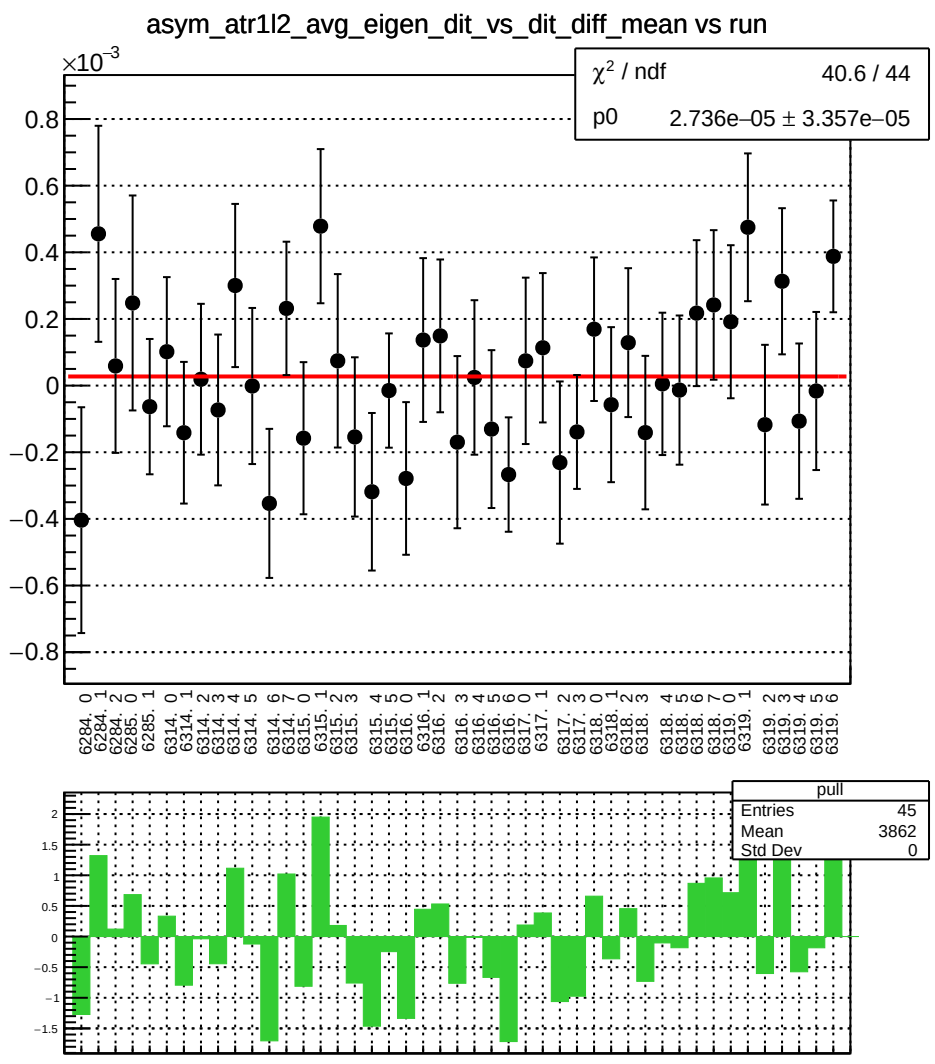

pull1D
Entries 45
Mean 0.02613
Std Dev 0.9598

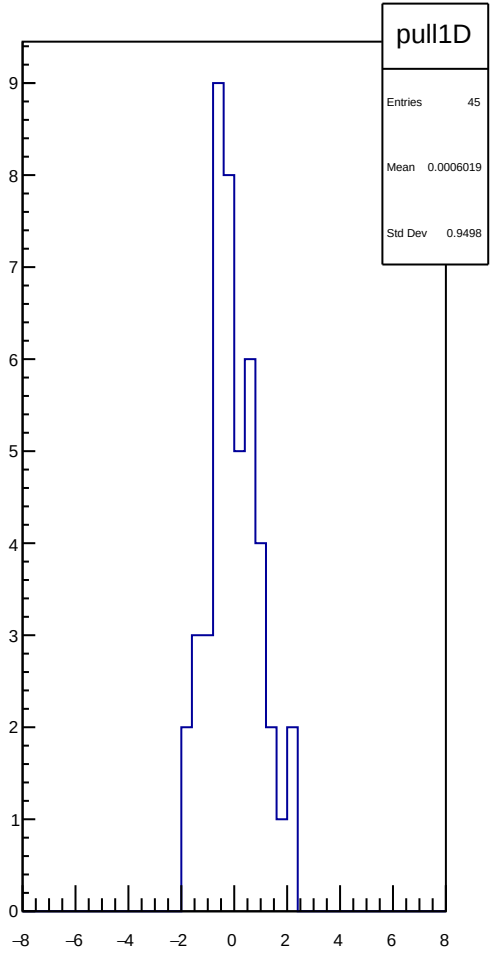

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 44
p0 208 ± 0.2276
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

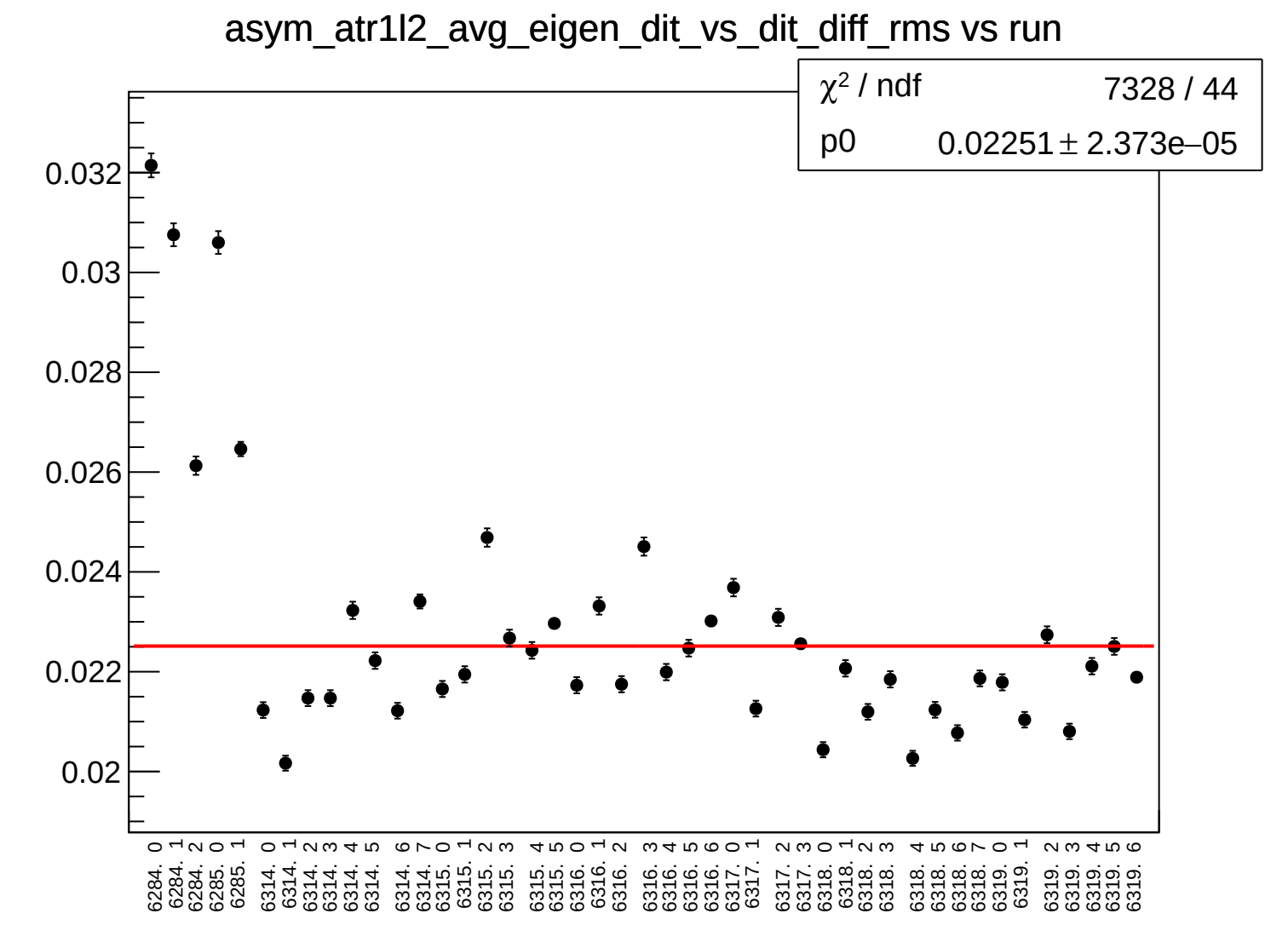

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.49 / 44
p0 0.08287 ± 0.3219
pull
Entries 45
Mean −78.73
Std Dev 0

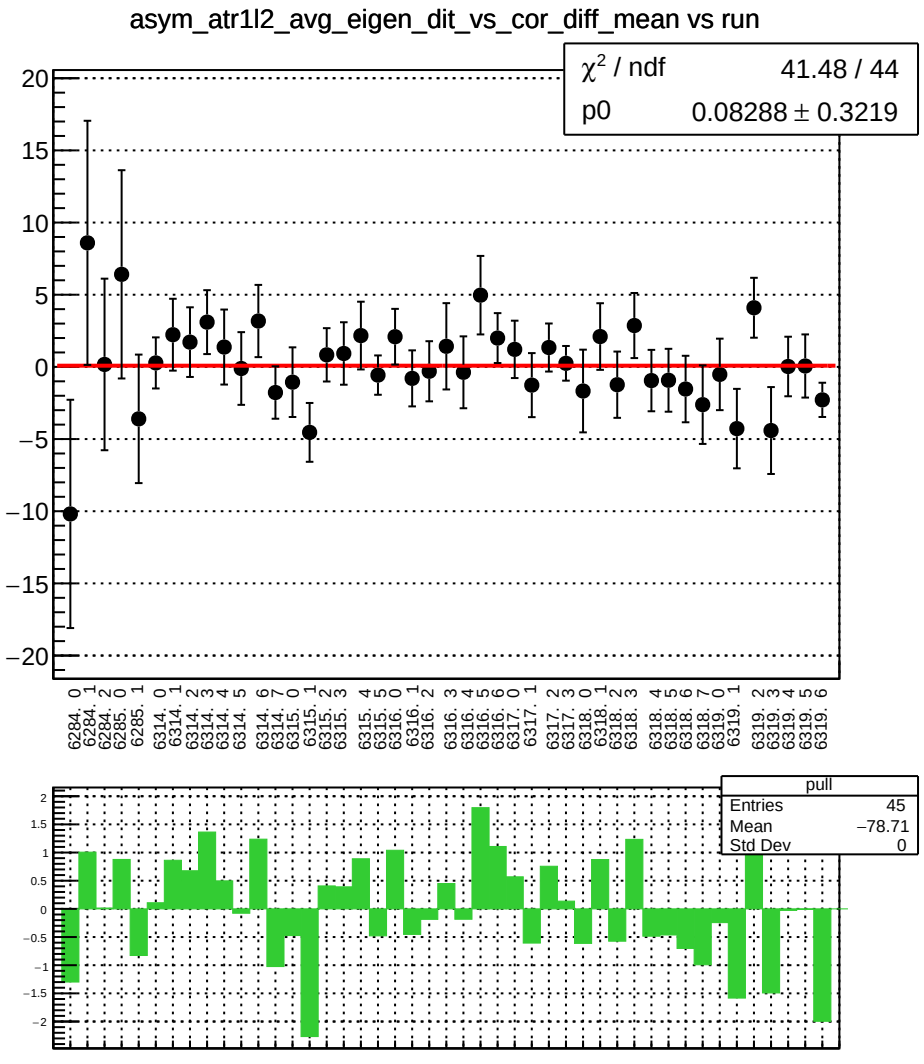

pull1D
Entries 45
Mean 0.02613
Std Dev 0.9598

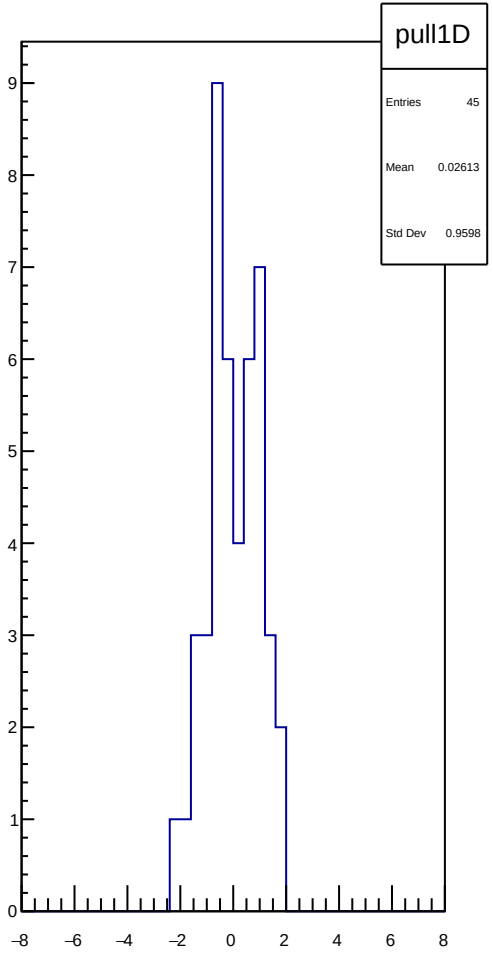

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 44
p0 208 ± 0.2276
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

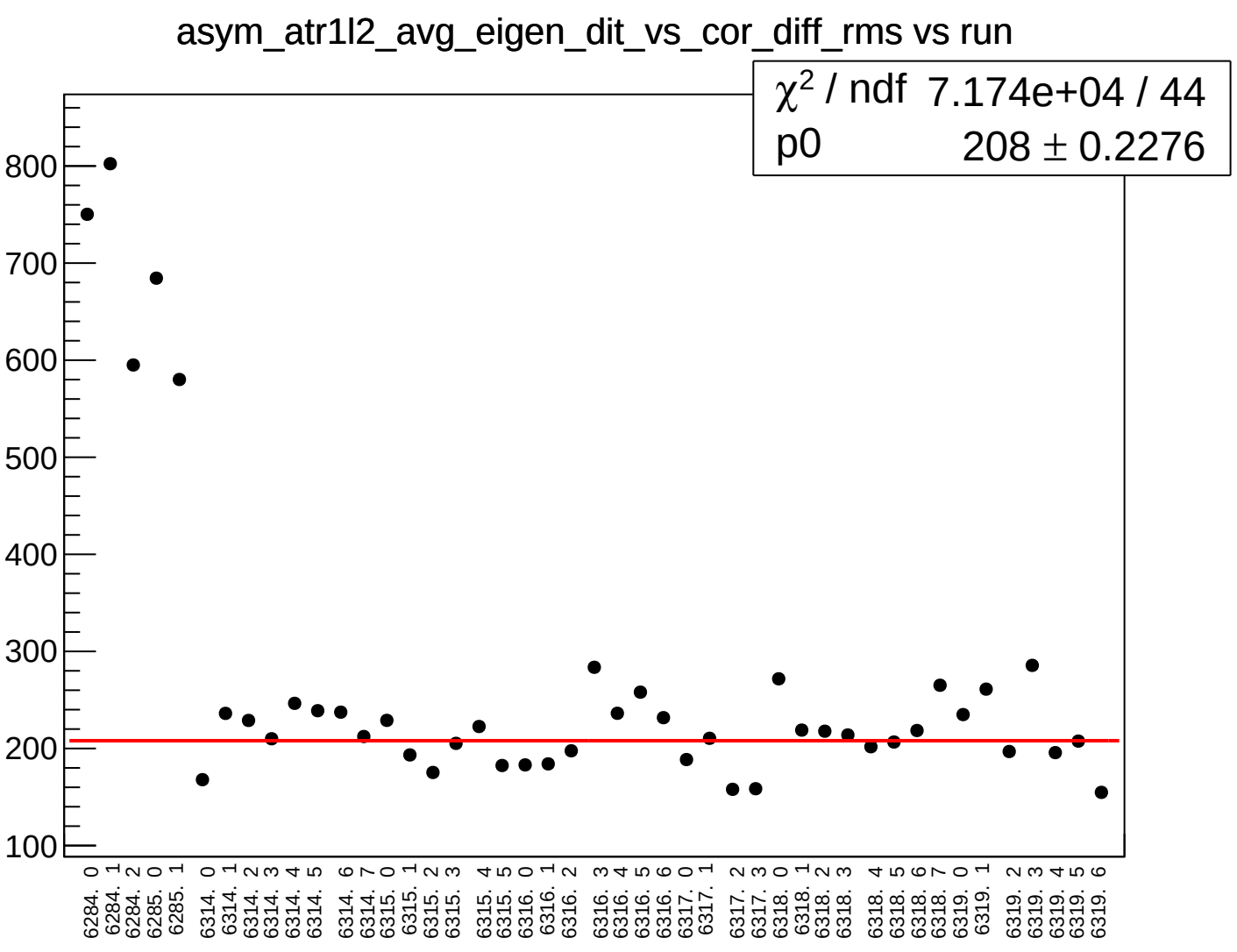

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.6 / 44
p0 2.736e−05 ± 3.357e−05
pull
Entries 45
Mean 3862
Std Dev 0

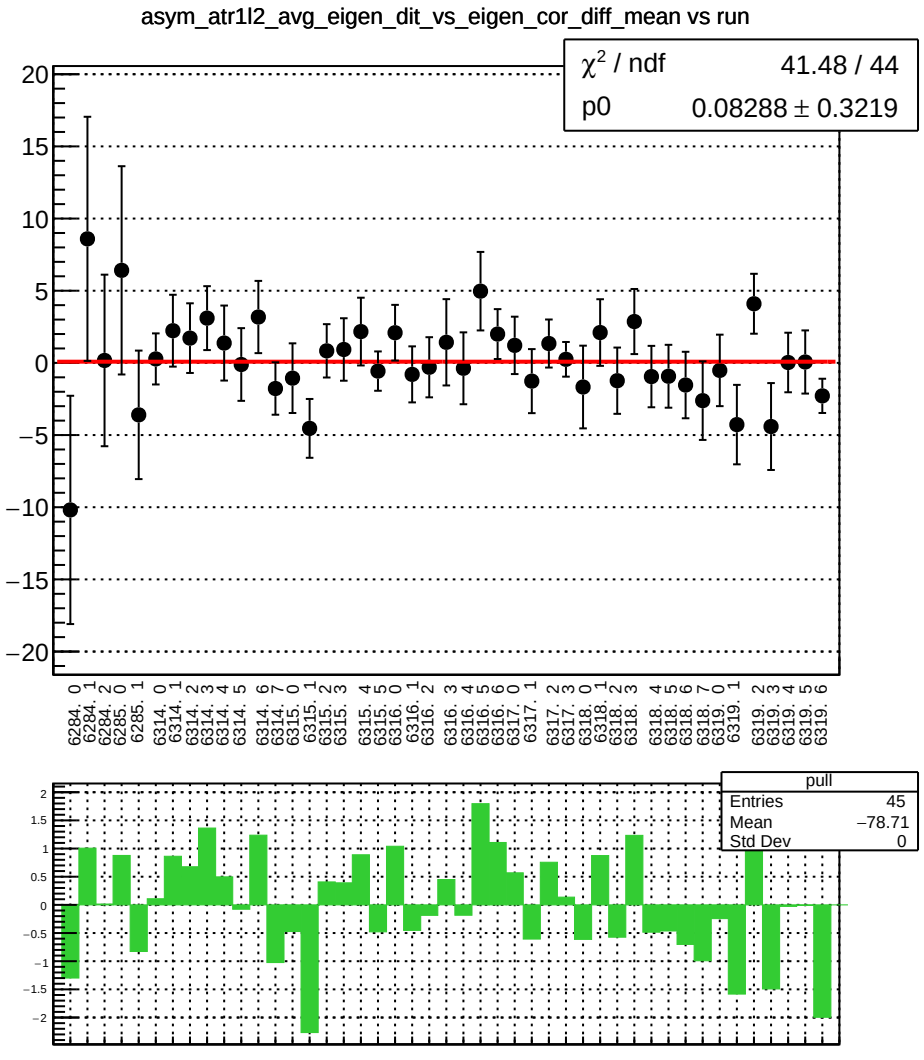

pull1D
Entries 45
Mean 0.0006019
Std Dev 0.9498

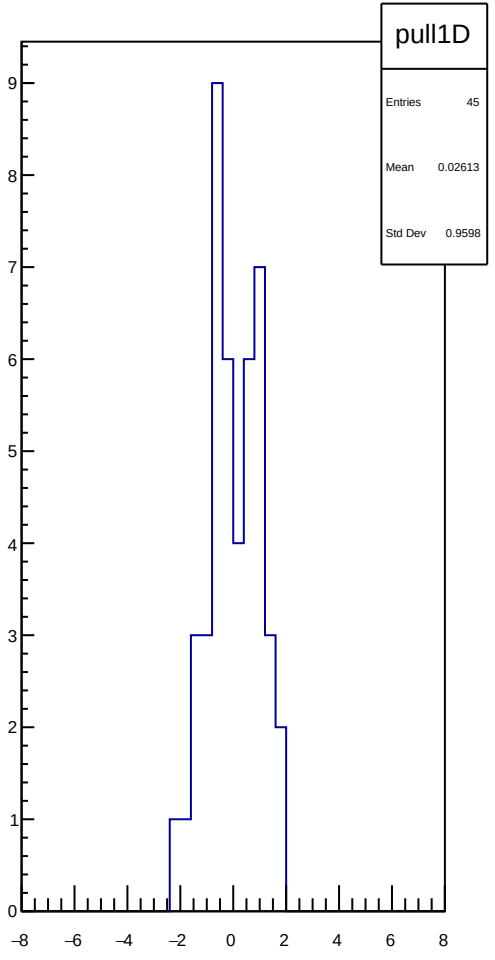

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7328 / 44
p0 0.02251 ± 2.373e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

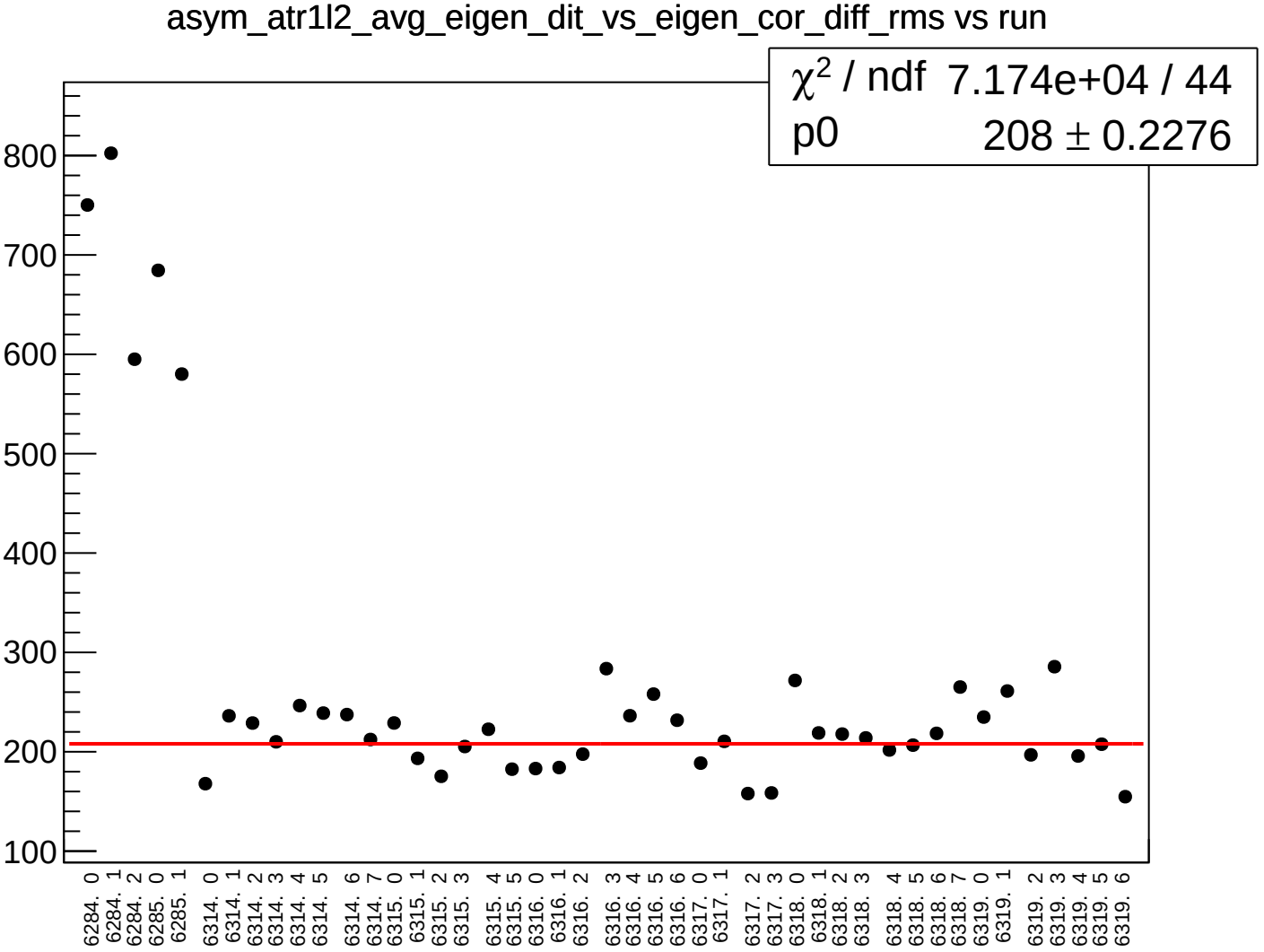

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.48 / 44
p0 0.08288 ± 0.3219
pull
Entries 45
Mean −78.71
Std Dev 0


pull1D
Entries 45
Mean 0.02613
Std Dev 0.9598


asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 44
p0 208 ± 0.2276
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.48 / 44
p0 0.08288 ± 0.3219
pull
Entries 45
Mean −78.71
Std Dev 0


pull1D
Entries 45
Mean 0.02613
Std Dev 0.9598


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 44
p0 208 ± 0.2276
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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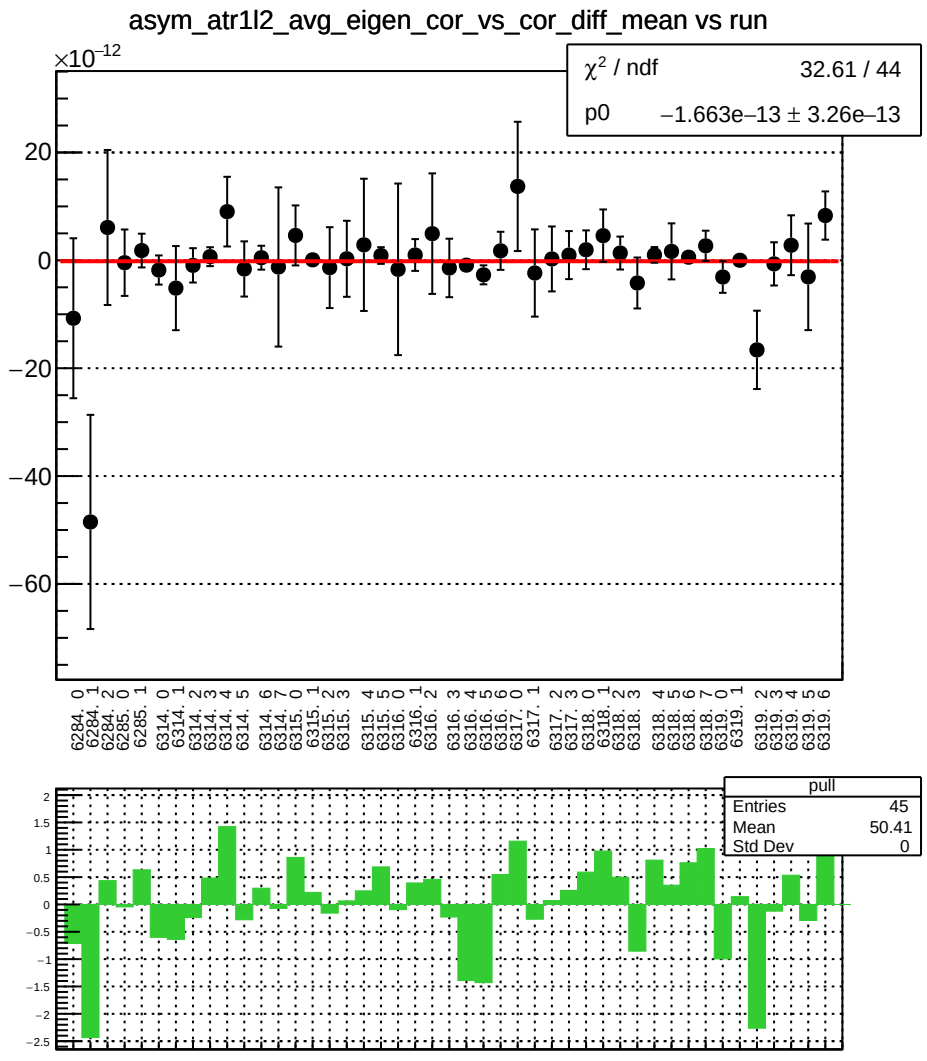
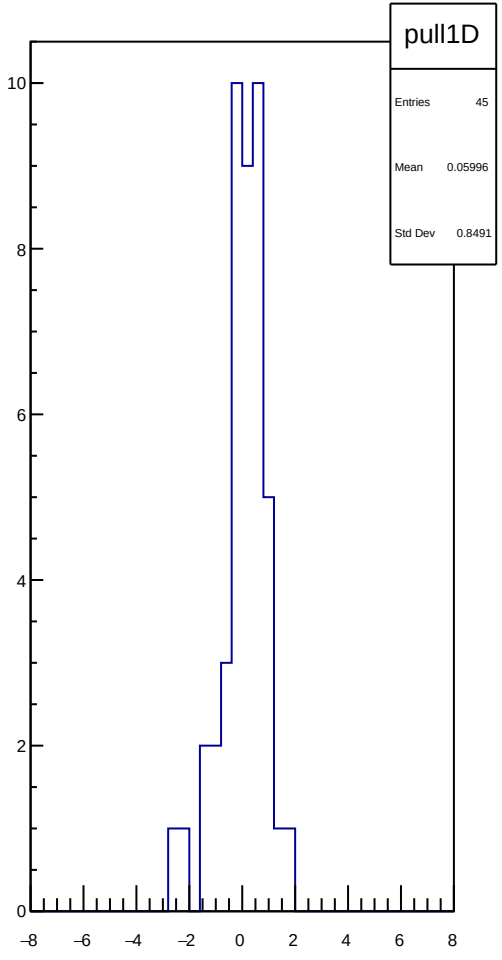
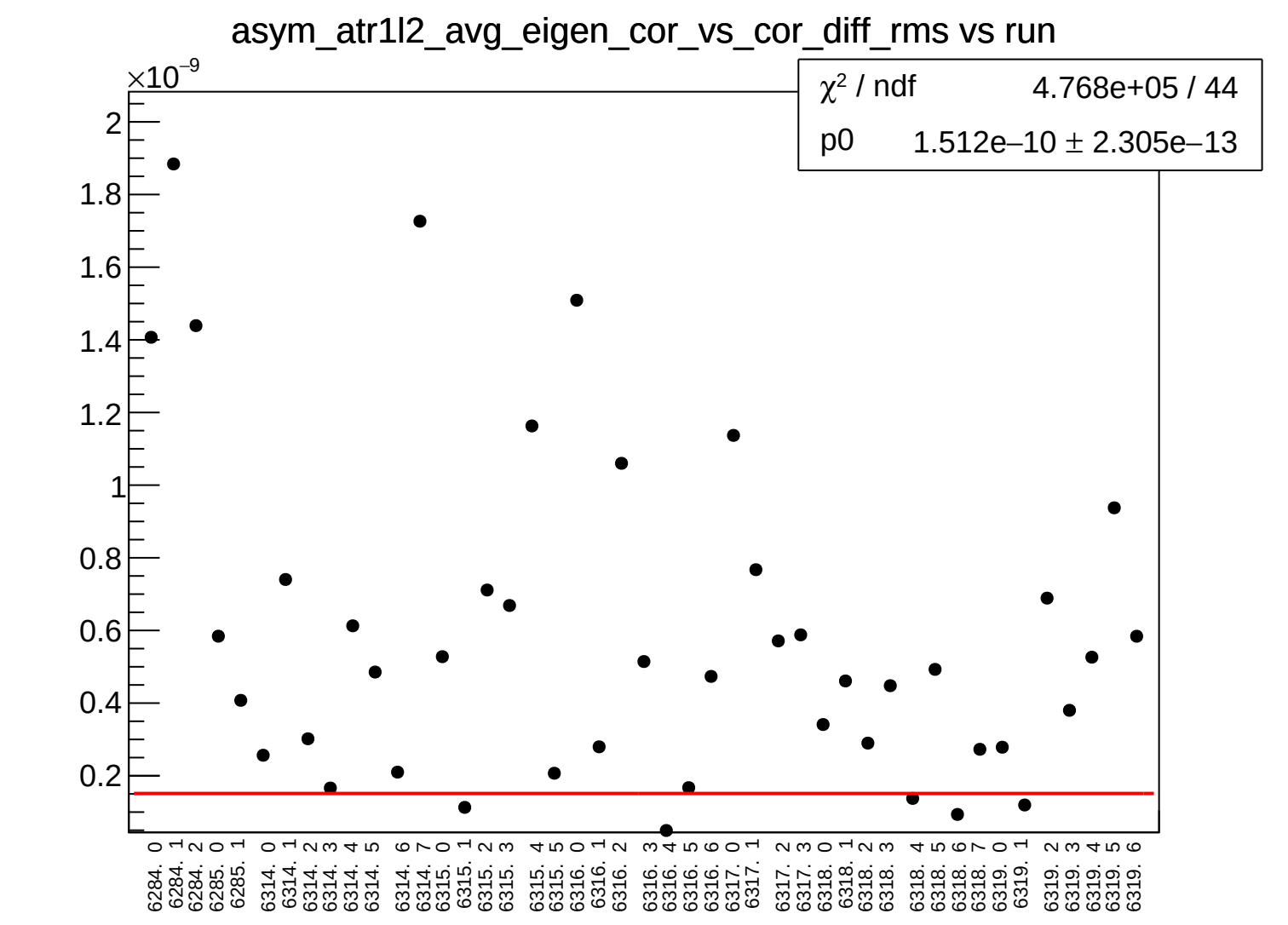
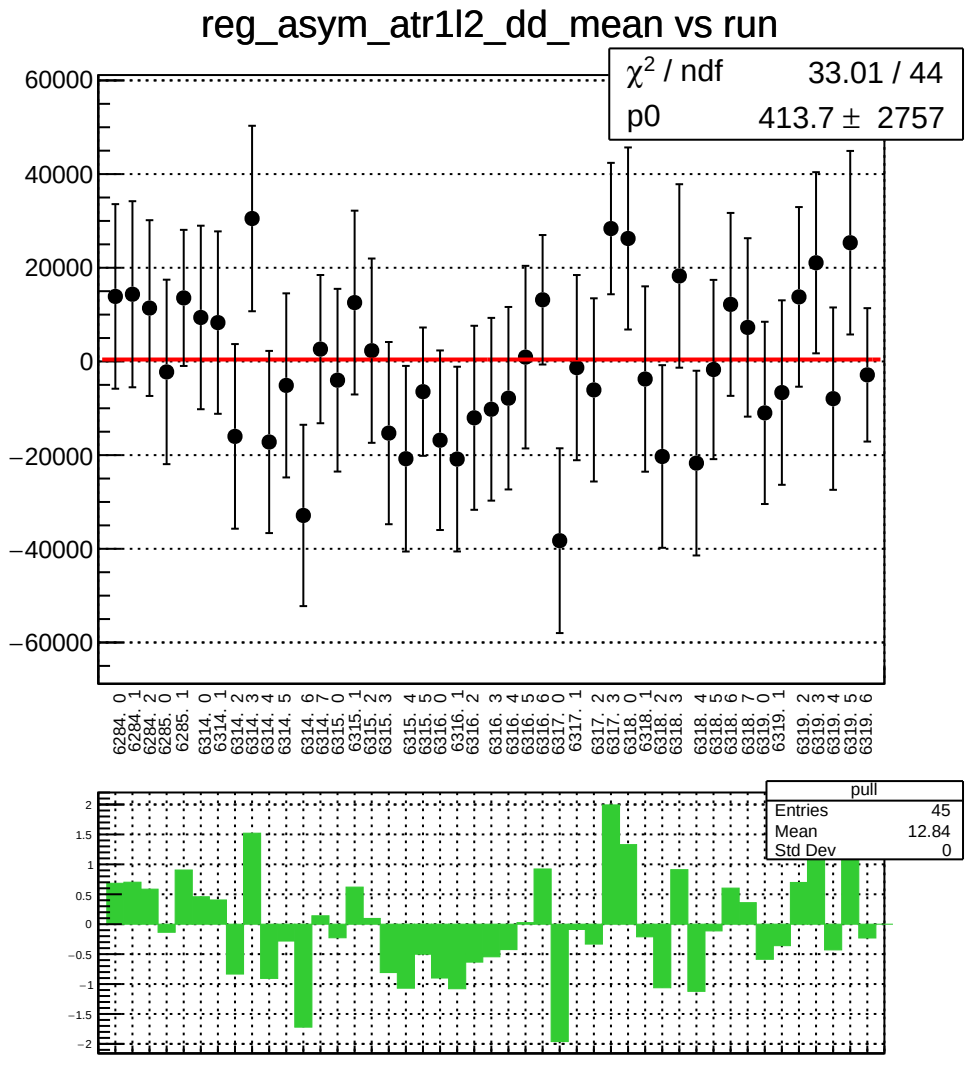
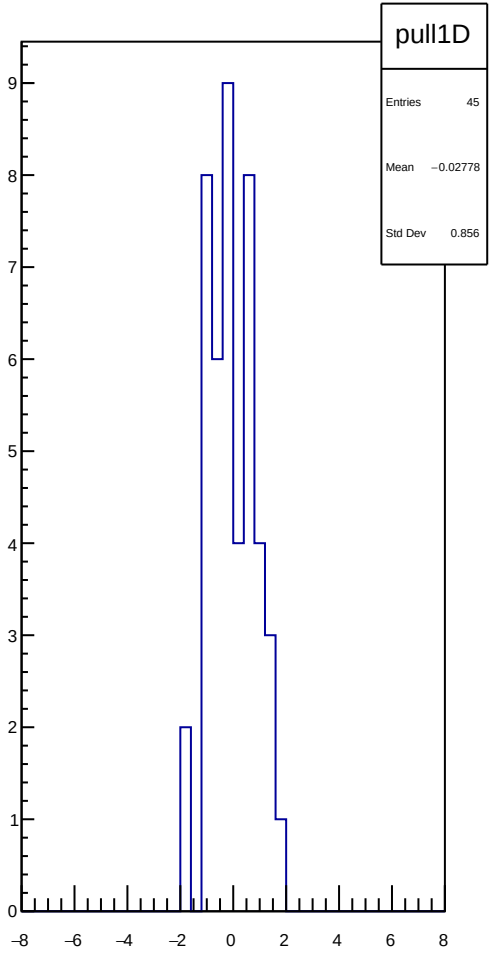
6319. 5
6319. 6

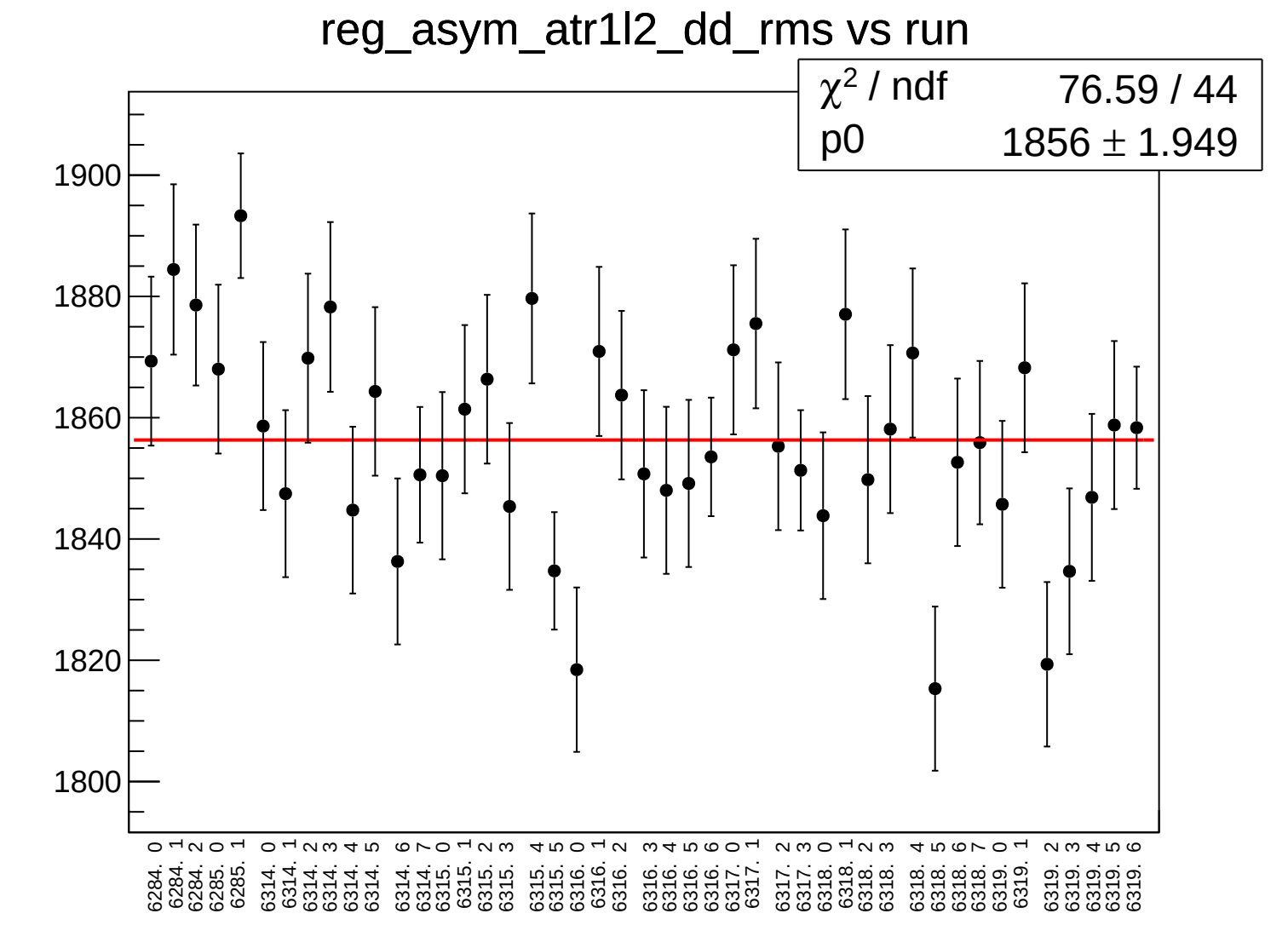

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.61 / 44
p0 −1.663e−13 ± 3.26e−13
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

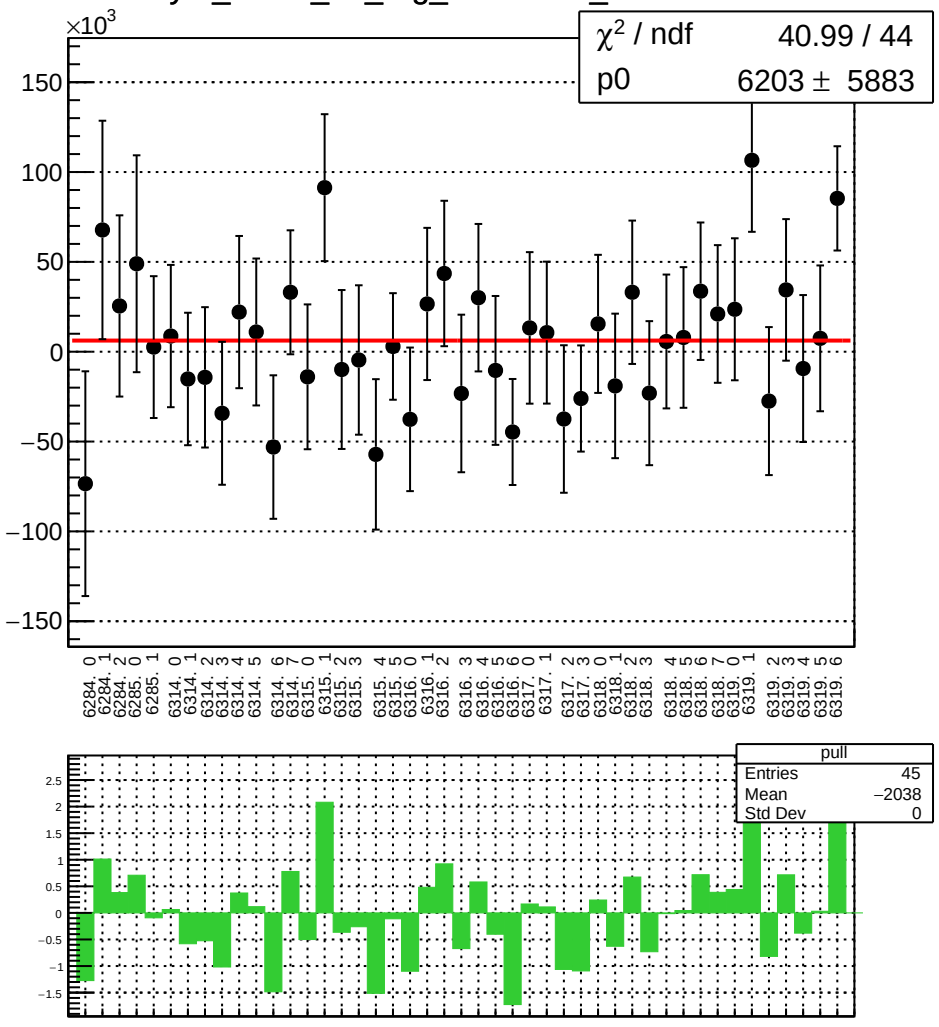

pull1D
Entries 45
Mean 0.05996
Std Dev 0.8491
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

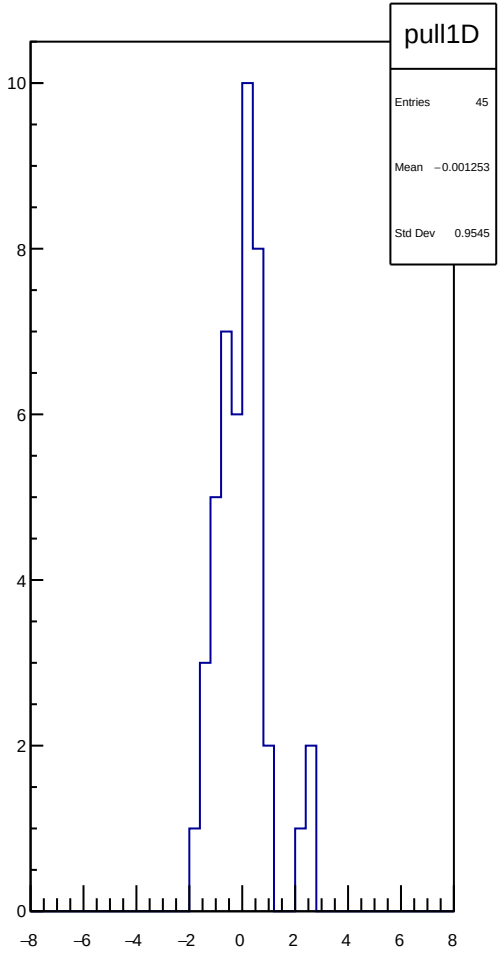

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.768e+05 / 44
p0 1.512e−10 ± 2.305e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

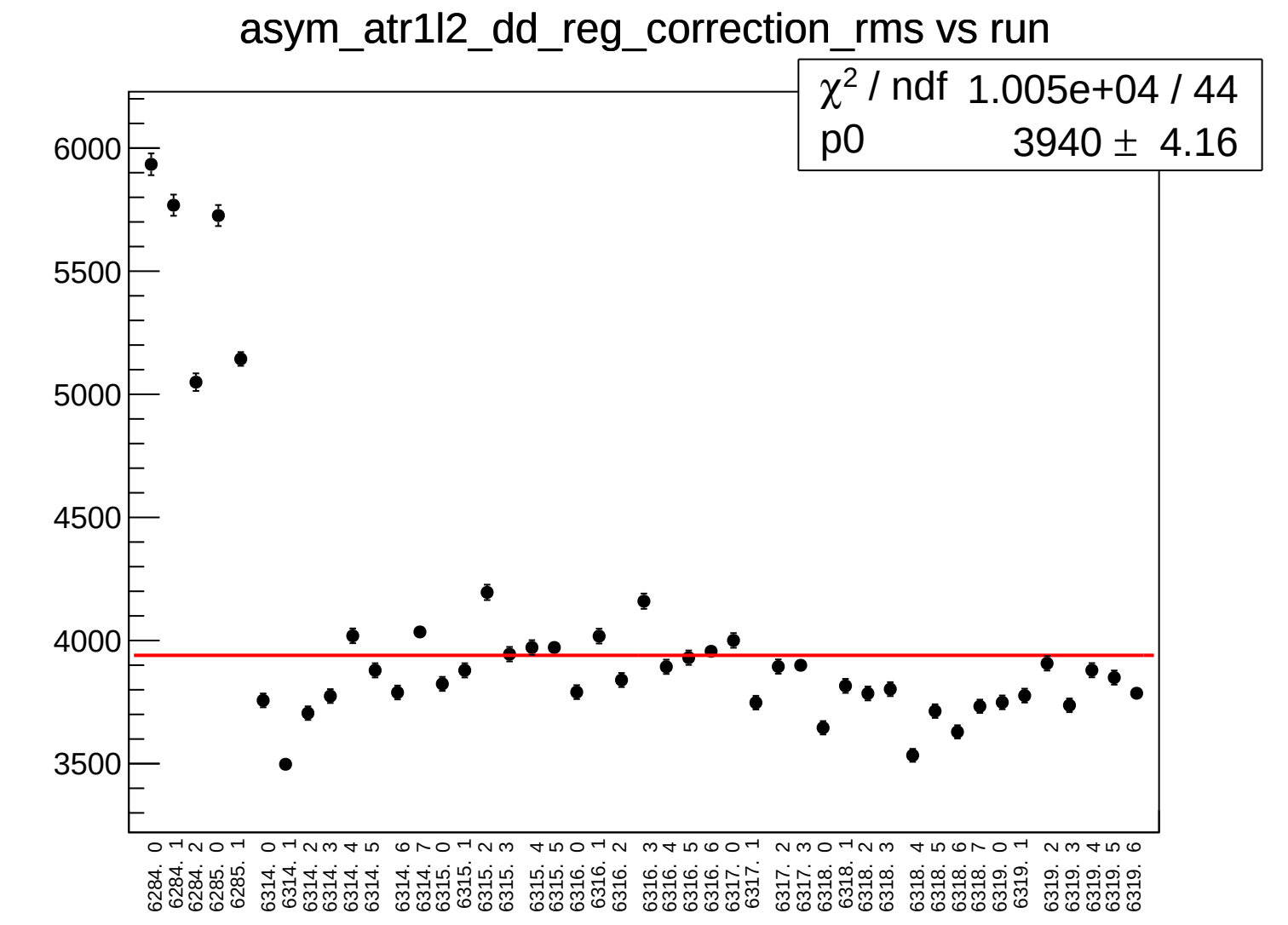

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 33.01 / 44
p0 413.7 ± 2757
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

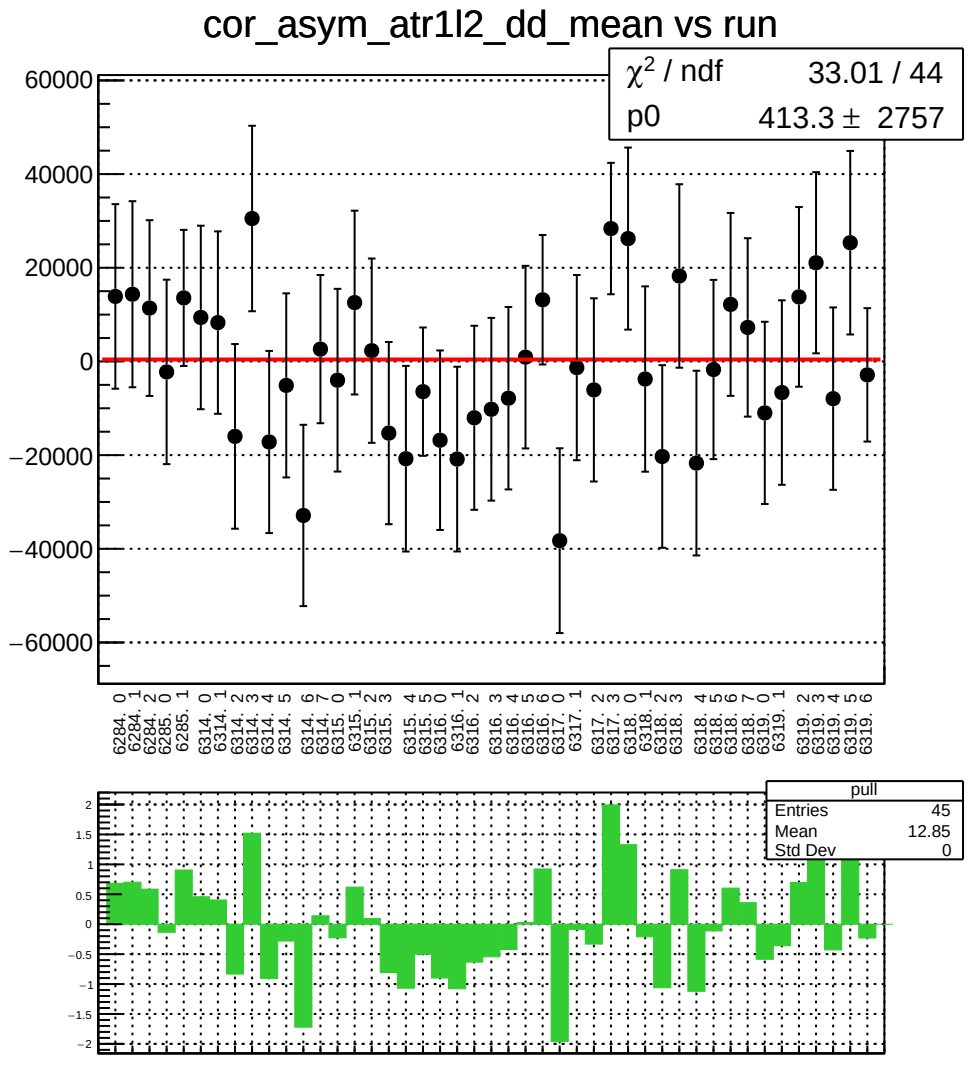

pull1D
Entries 45
Mean −0.02778
Std Dev 0.856
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

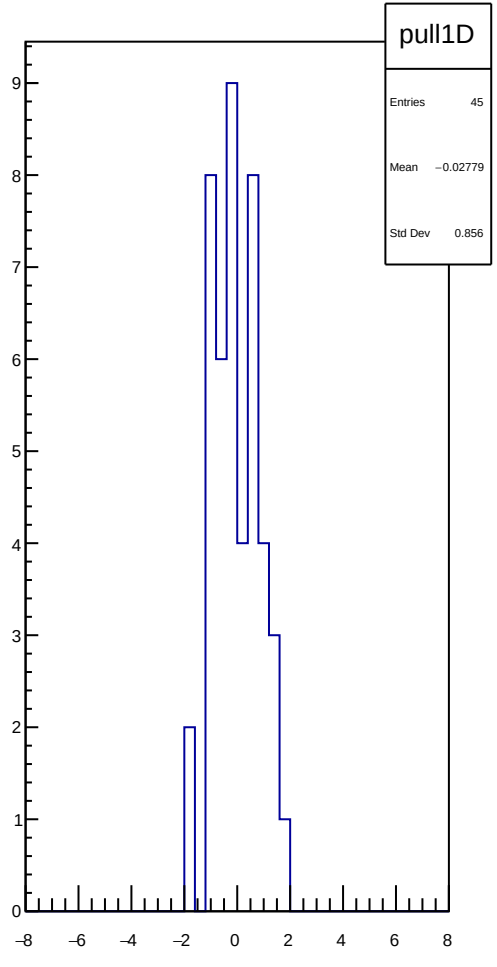

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 76.59 / 44
p0 1856 ± 1.949
1900
1880
1860
1840
1820
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

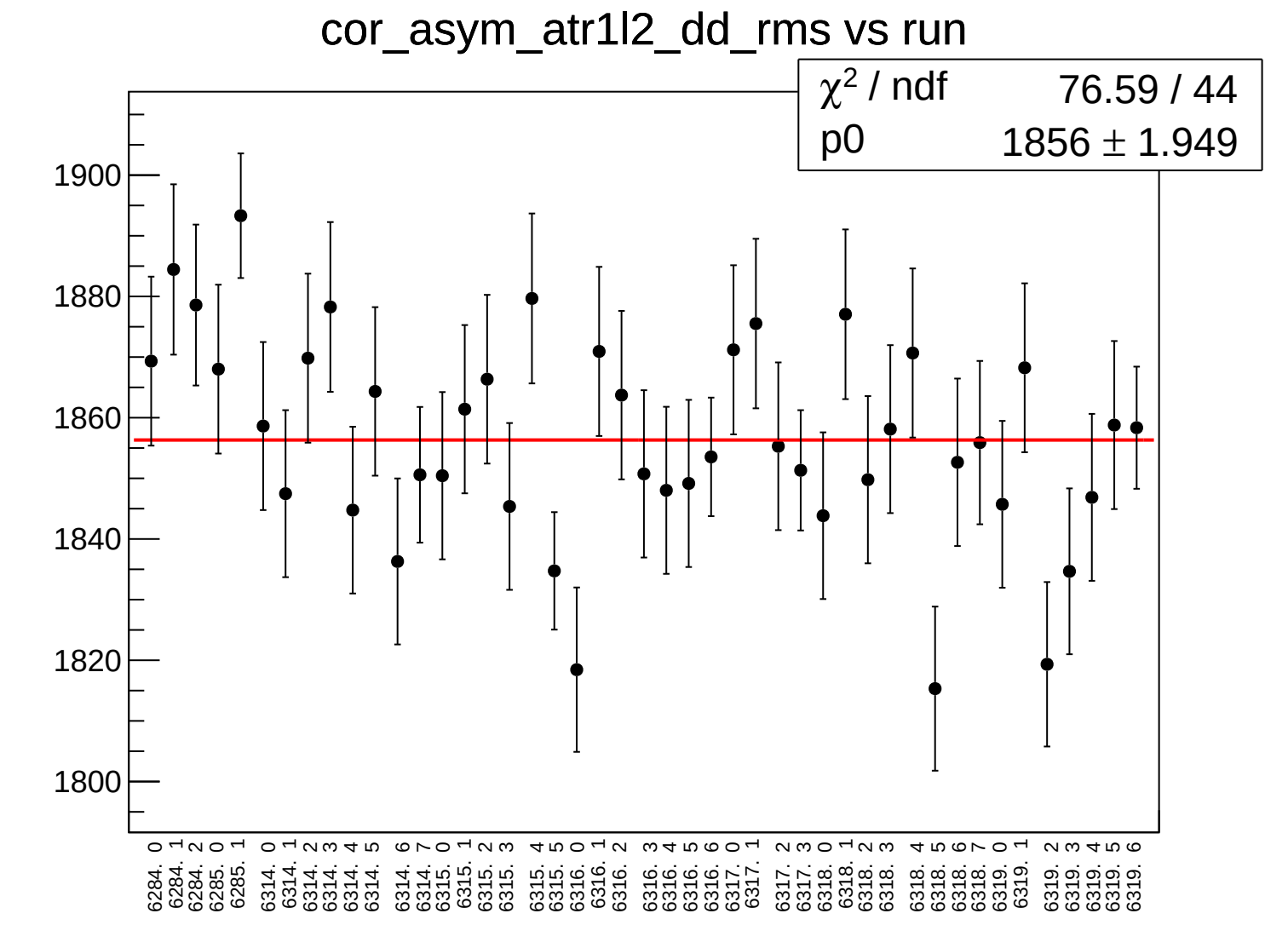

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.99 / 44
p0 6203 ± 5883
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2038
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

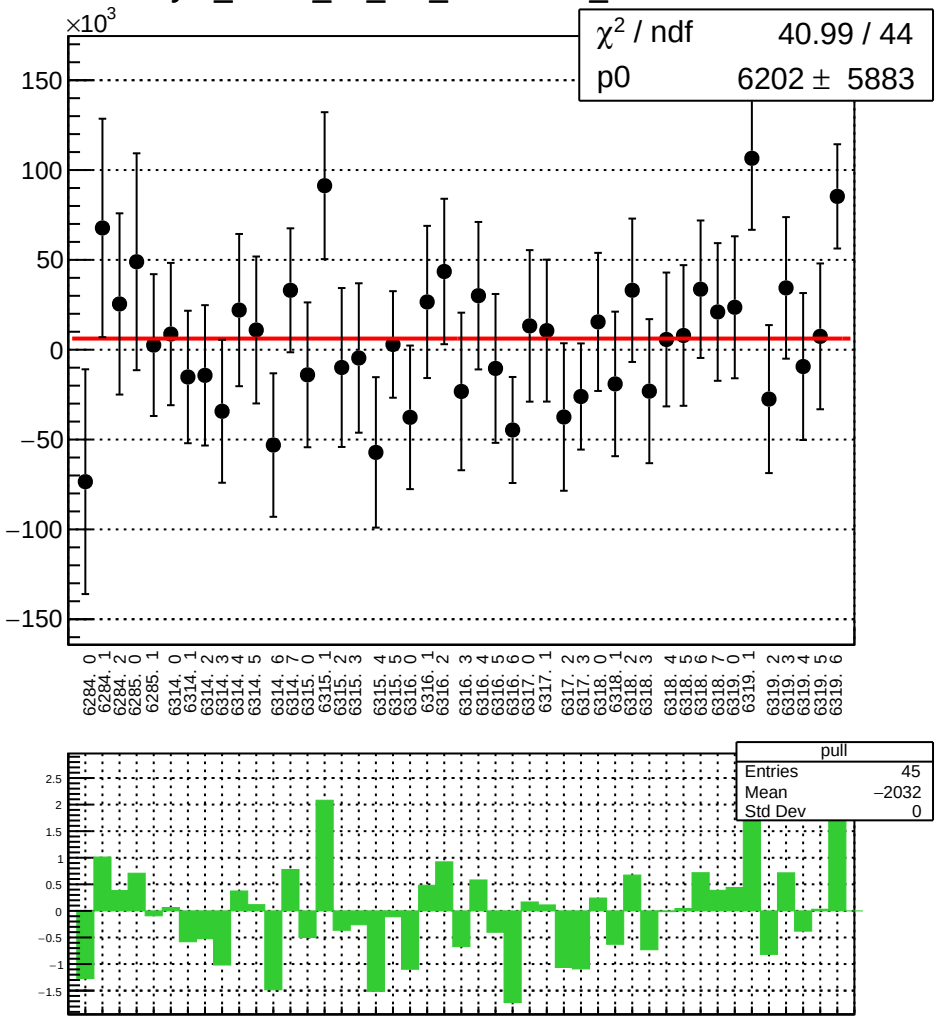

pull1D
Entries 45
Mean −0.001253
Std Dev 0.9545
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

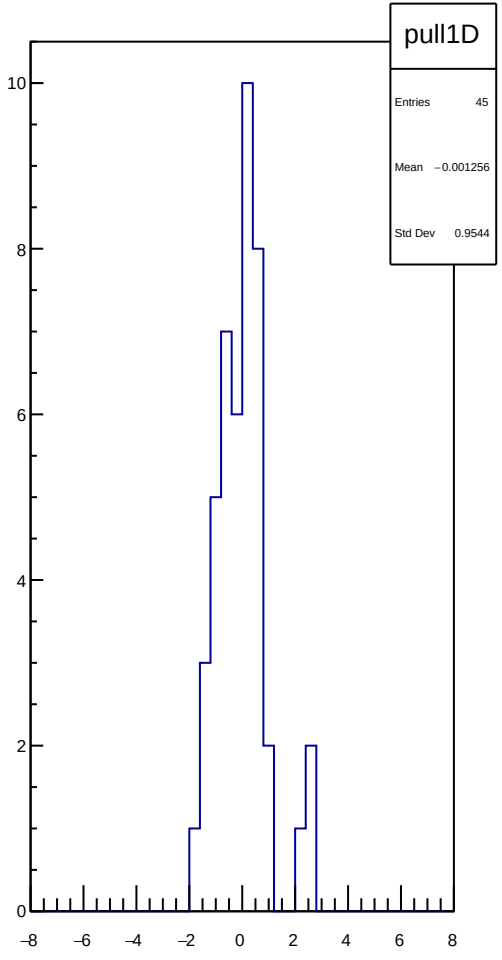

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.005e+04 / 44
p0 3940 ± 4.16
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

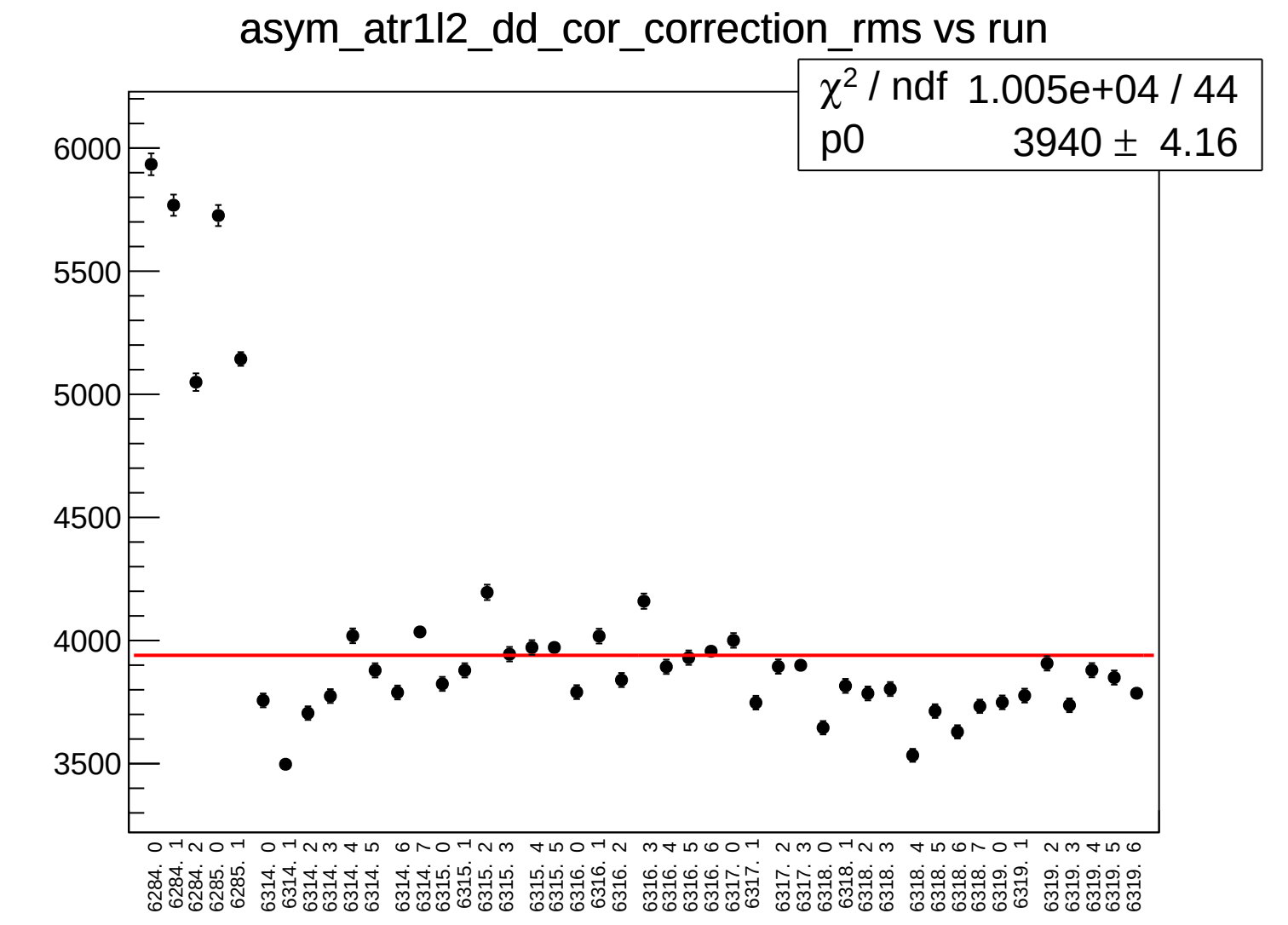

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 33.01 / 44
p0 413.3 ± 2757
pull
Entries 45
Mean 12.85
Std Dev 0

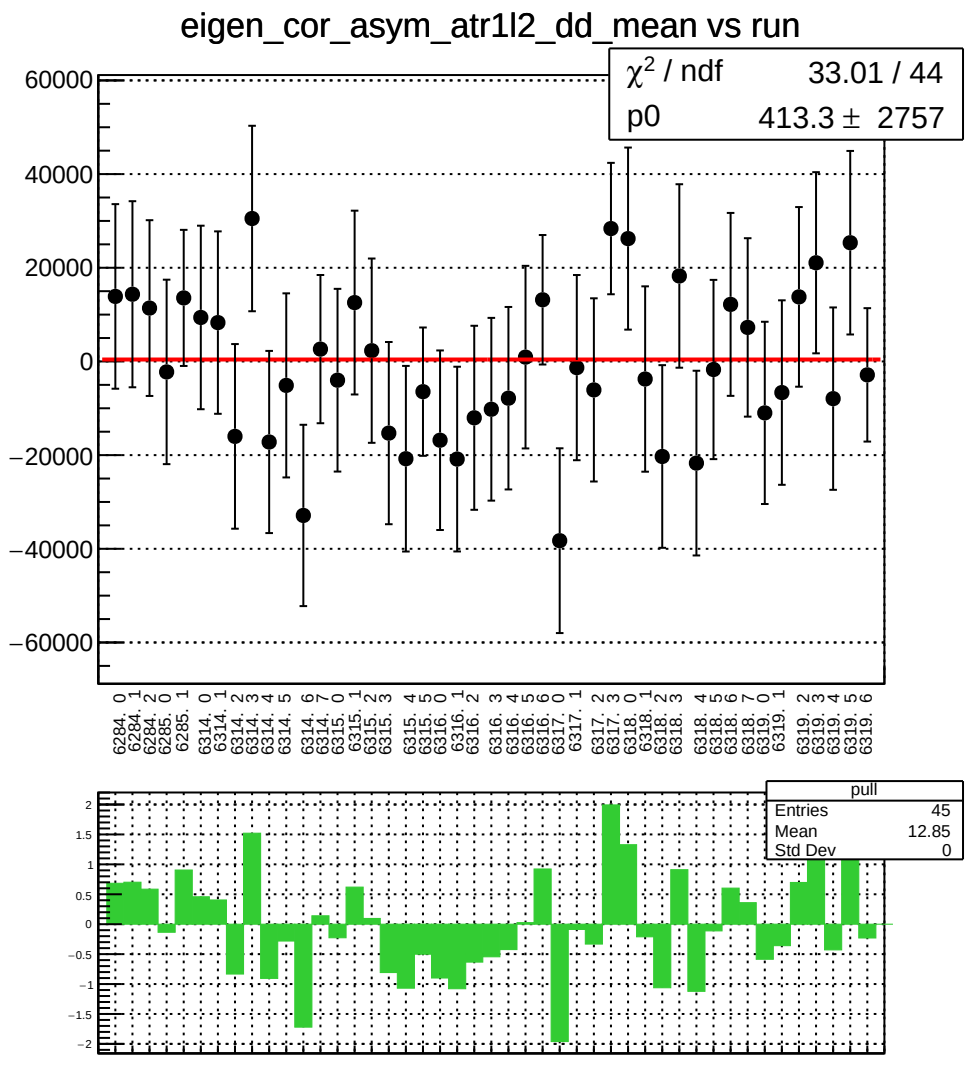

pull1D
Entries 45
Mean −0.02779
Std Dev 0.856

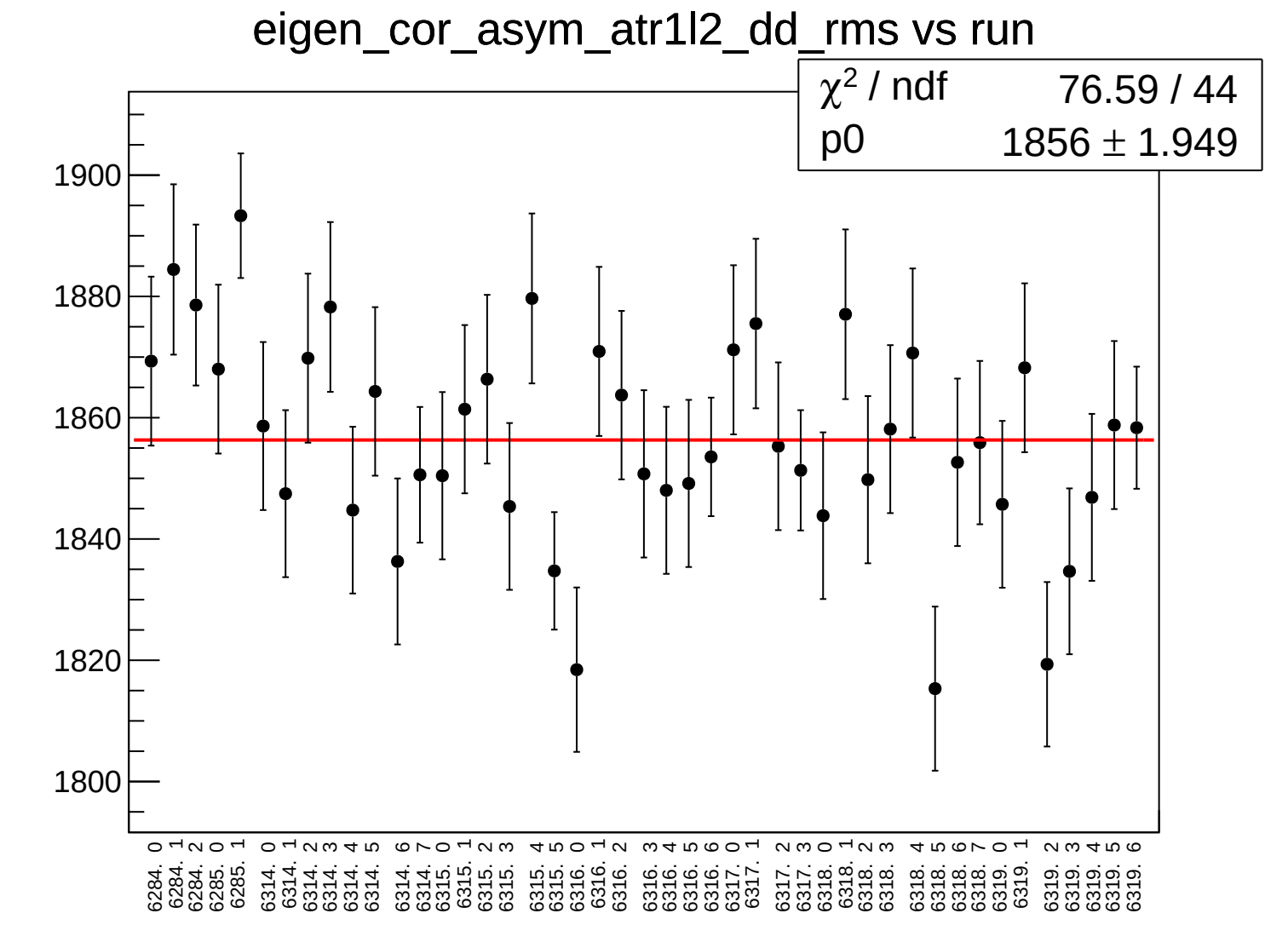

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 76.59 / 44
p0 1856 ± 1.949
1900
1880
1860
1840
1820
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

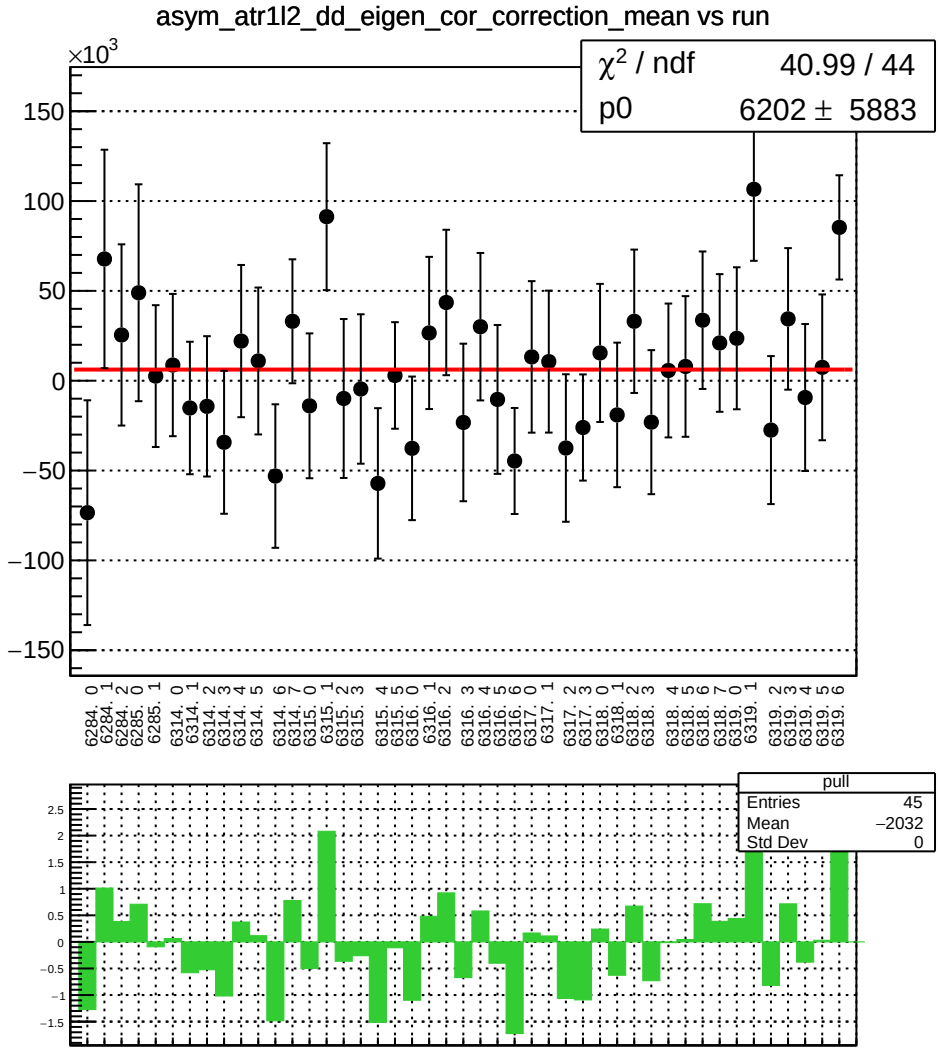

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.99 / 44
p0 6202 ± 5883
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2032
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

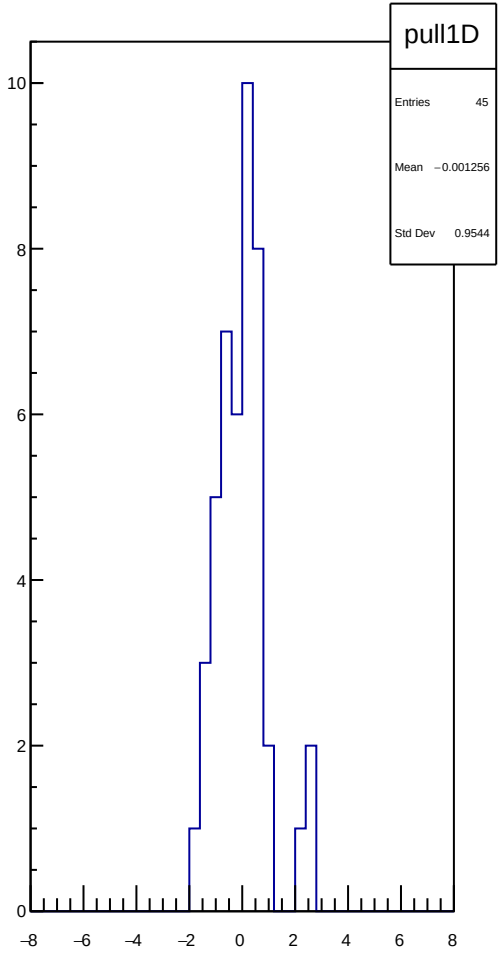

pull1D
Entries 45
Mean −0.001256
Std Dev 0.9544
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

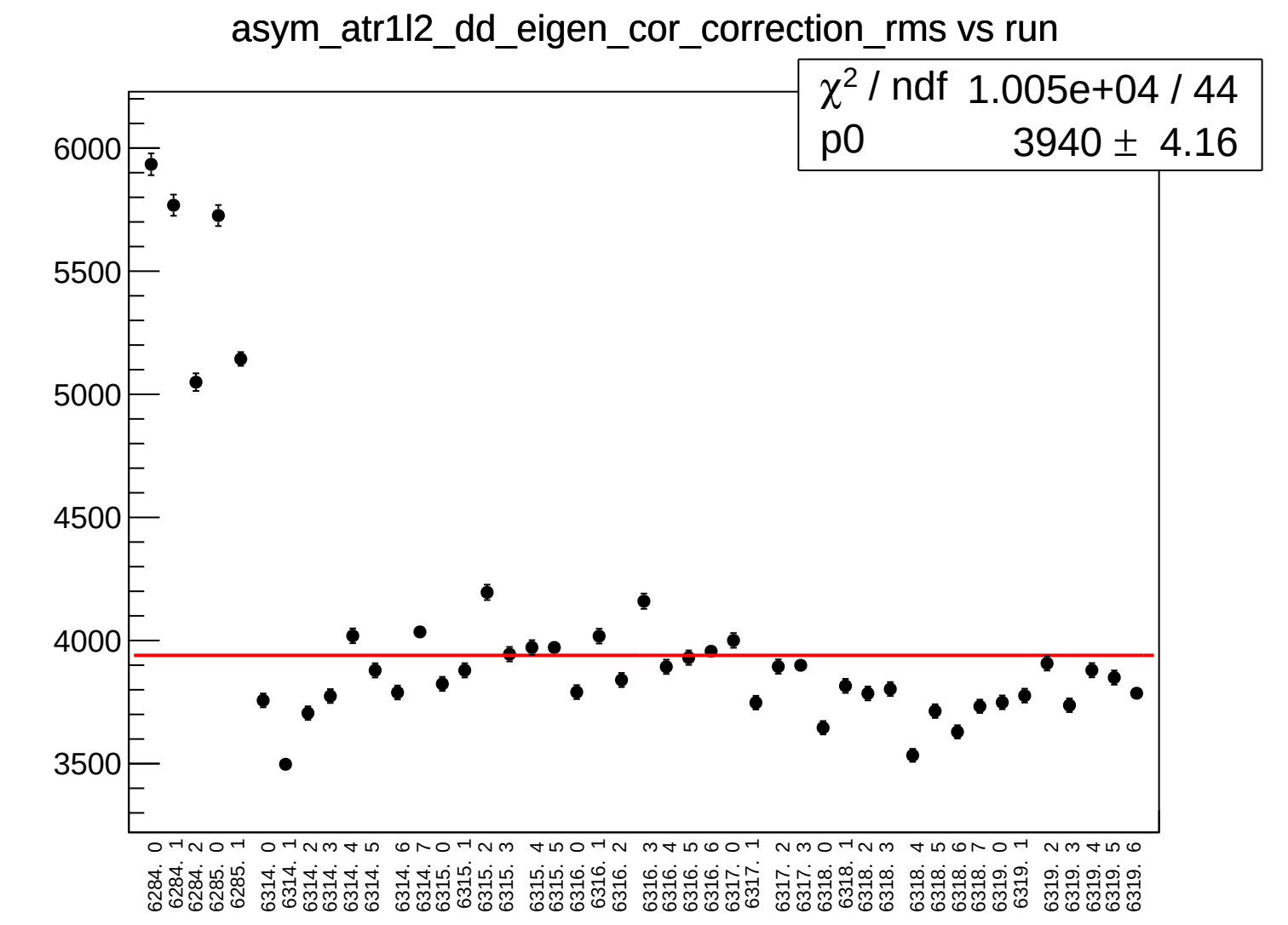

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.005e+04 / 44
p0 3940 ± 4.16
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

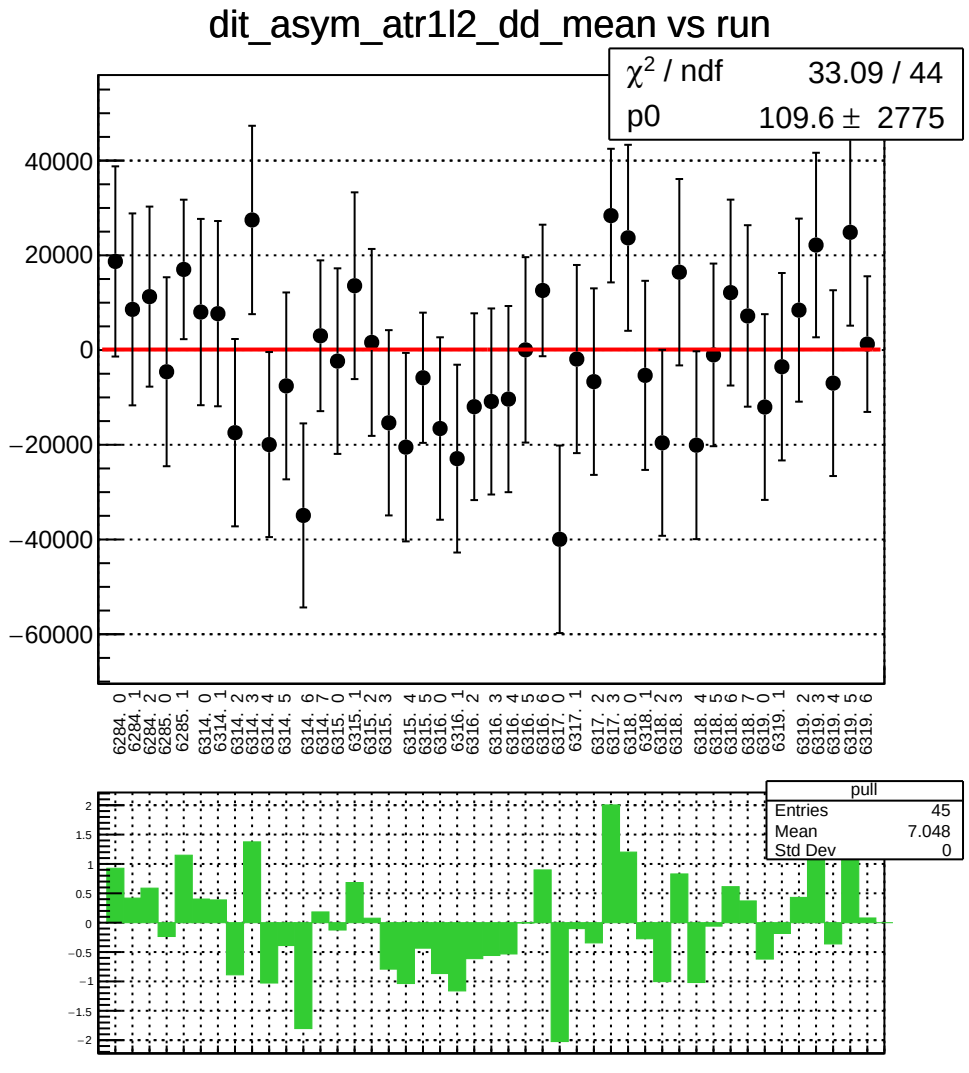

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 33.01 / 44
p0 413.3 ± 2757
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02779
Std Dev 0.856
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

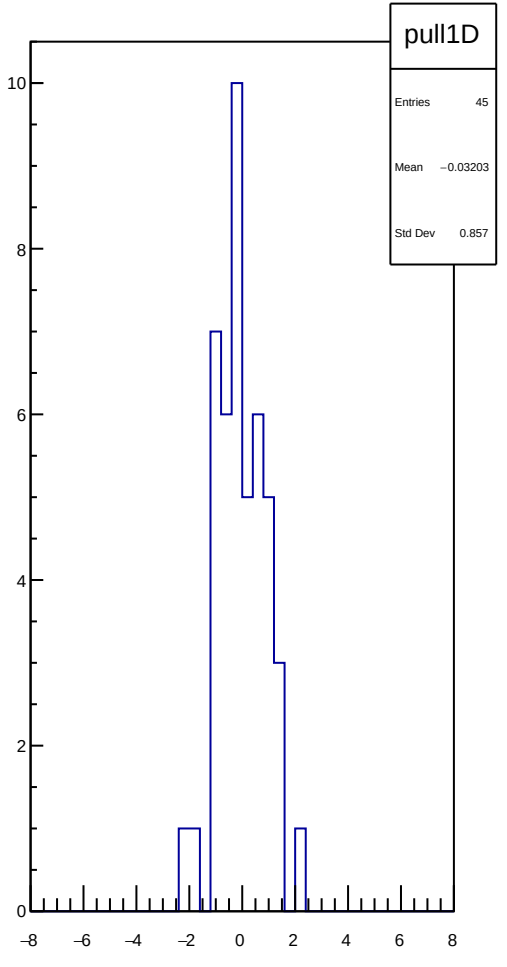

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 76.59 / 44
p0 1856 ± 1.949
1900
1880
1860
1840
1820
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

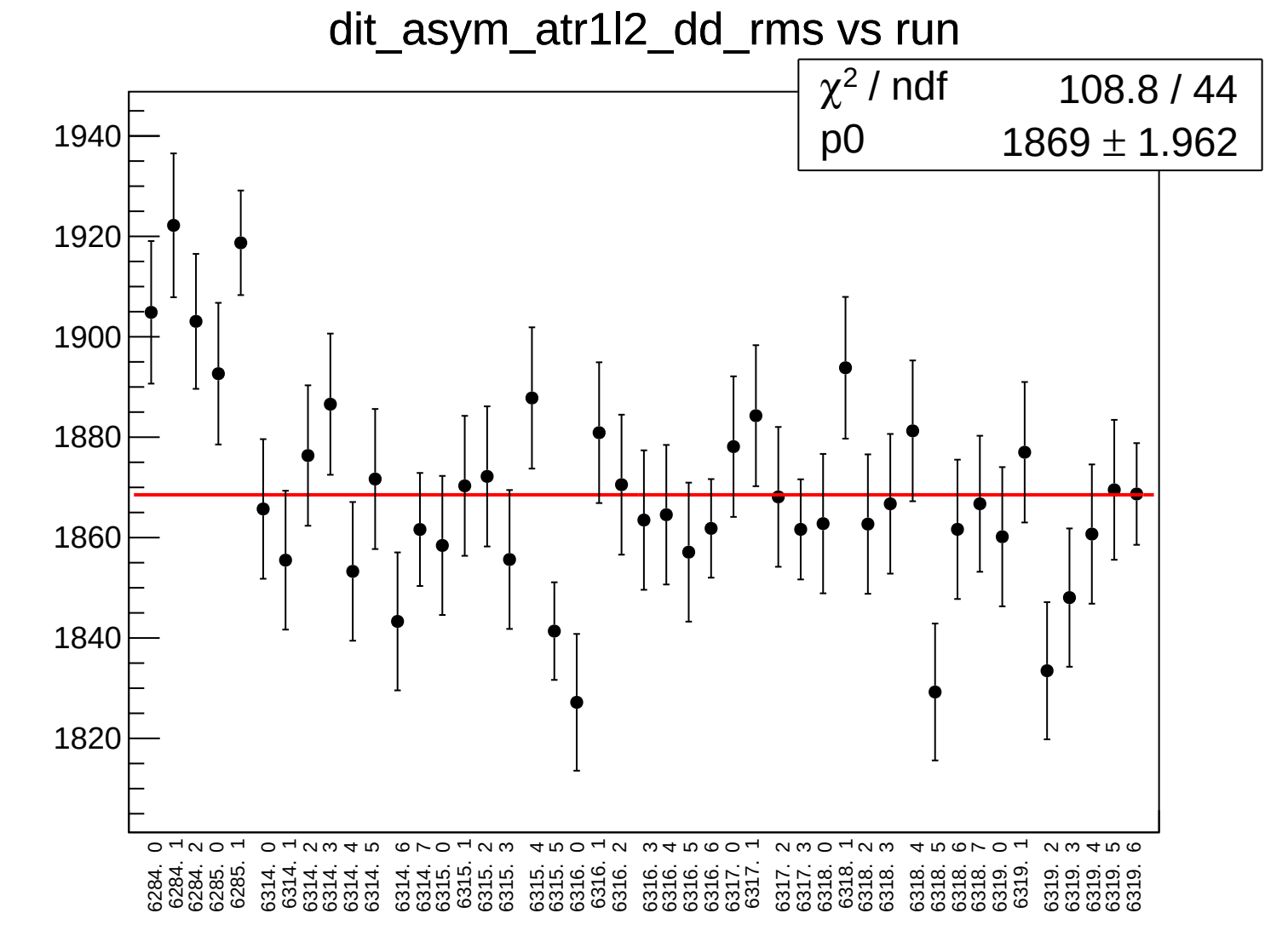

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.99 / 44
p0 6202 ± 5883
×10³
pull
Entries 45
Mean −2032
Std Dev 0

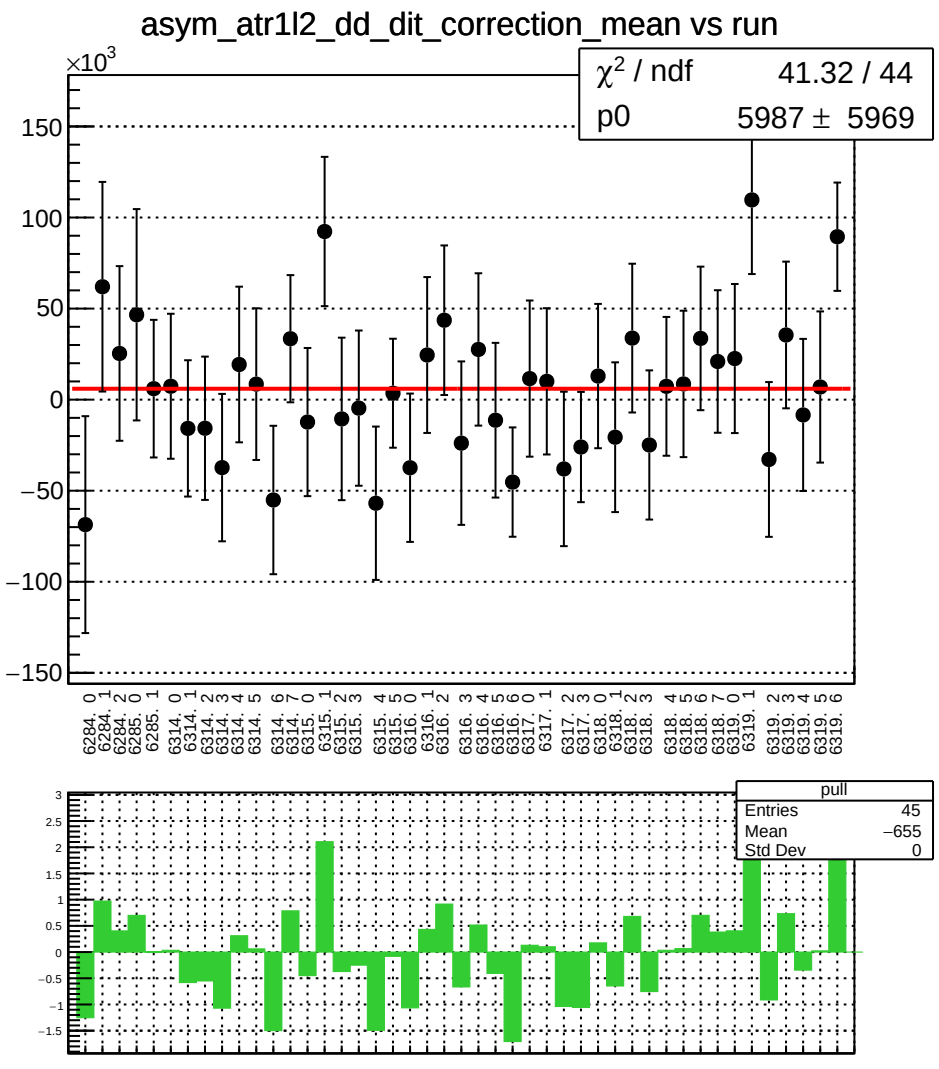

pull1D
Entries 45
Mean −0.001256
Std Dev 0.9544

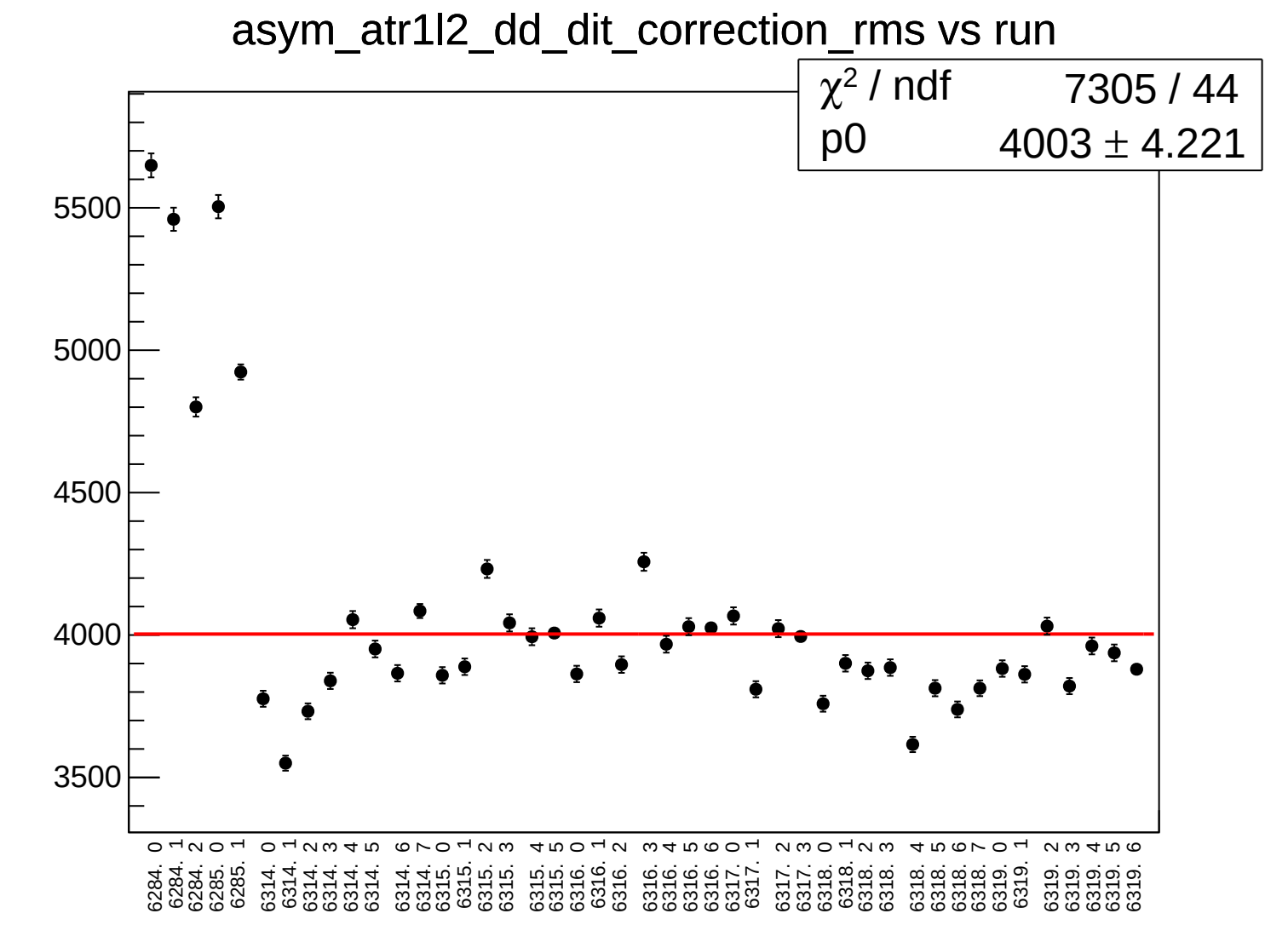

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.005e+04 / 44
p0 3940 ± 4.16
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_atr1l2_dd_mean vs run
χ² / ndf 33.09 / 44
p0 109.6 ± 2775
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.03203
Std Dev 0.857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_dd_rms vs run
χ² / ndf 108.8 / 44
p0 1869 ± 1.962
1940
1920
1900
1880
1860
1840
1820
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 5987 ± 5969
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −655
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003856
Std Dev 0.9583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 7305 / 44
p0 4003 ± 4.221
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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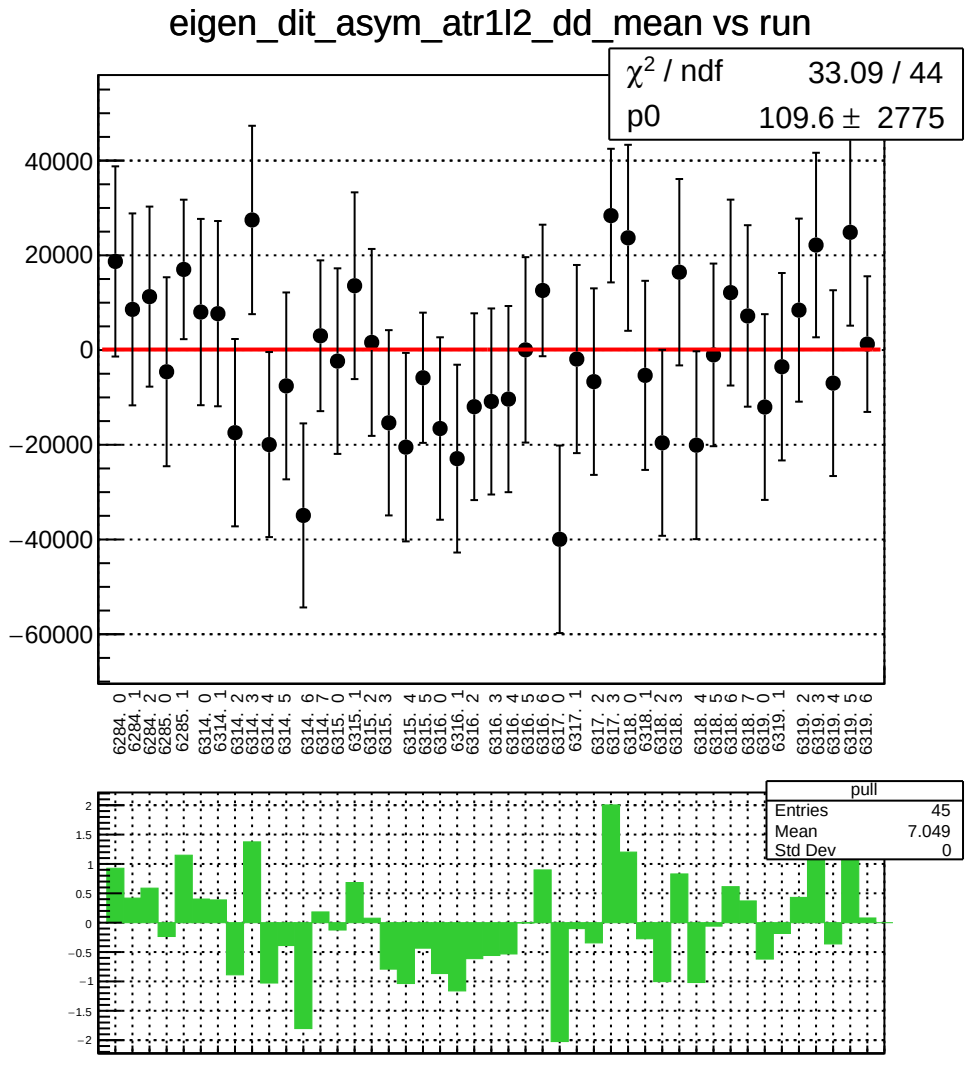
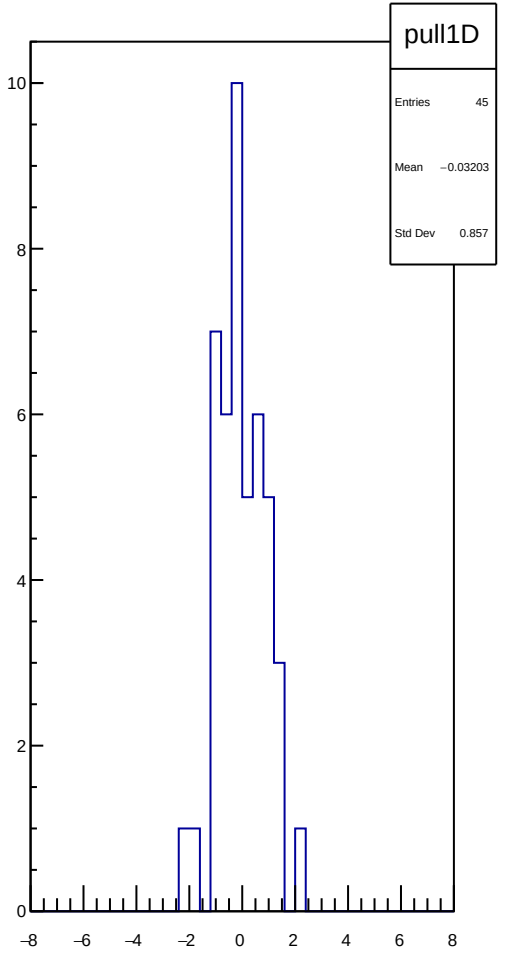
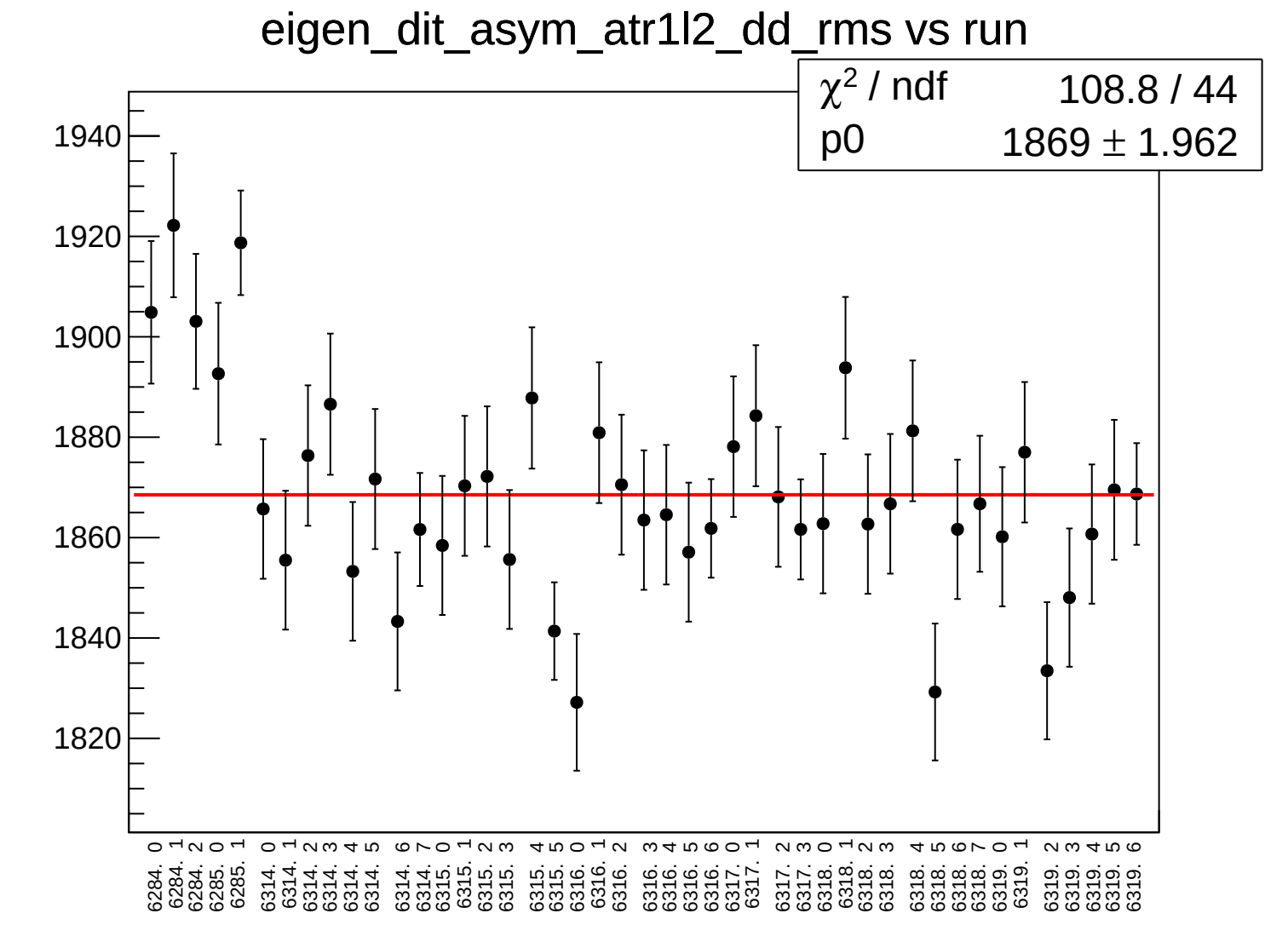
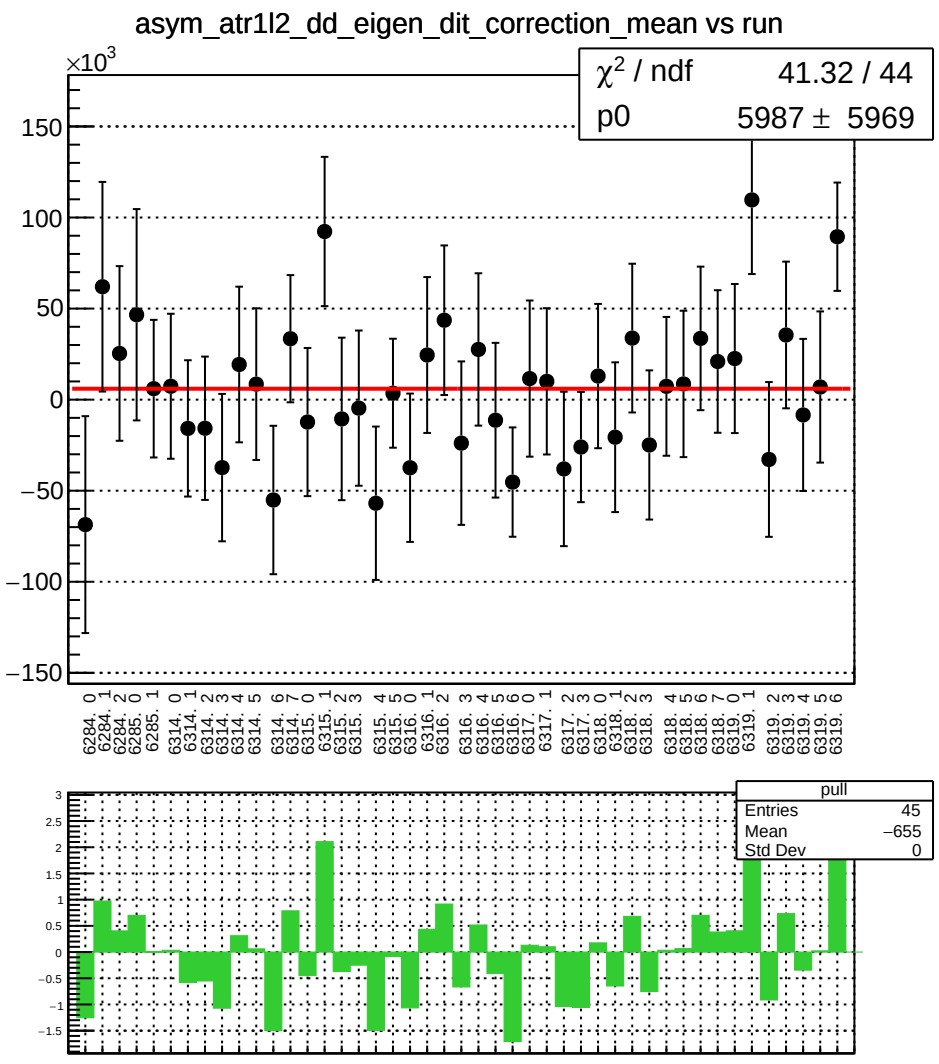
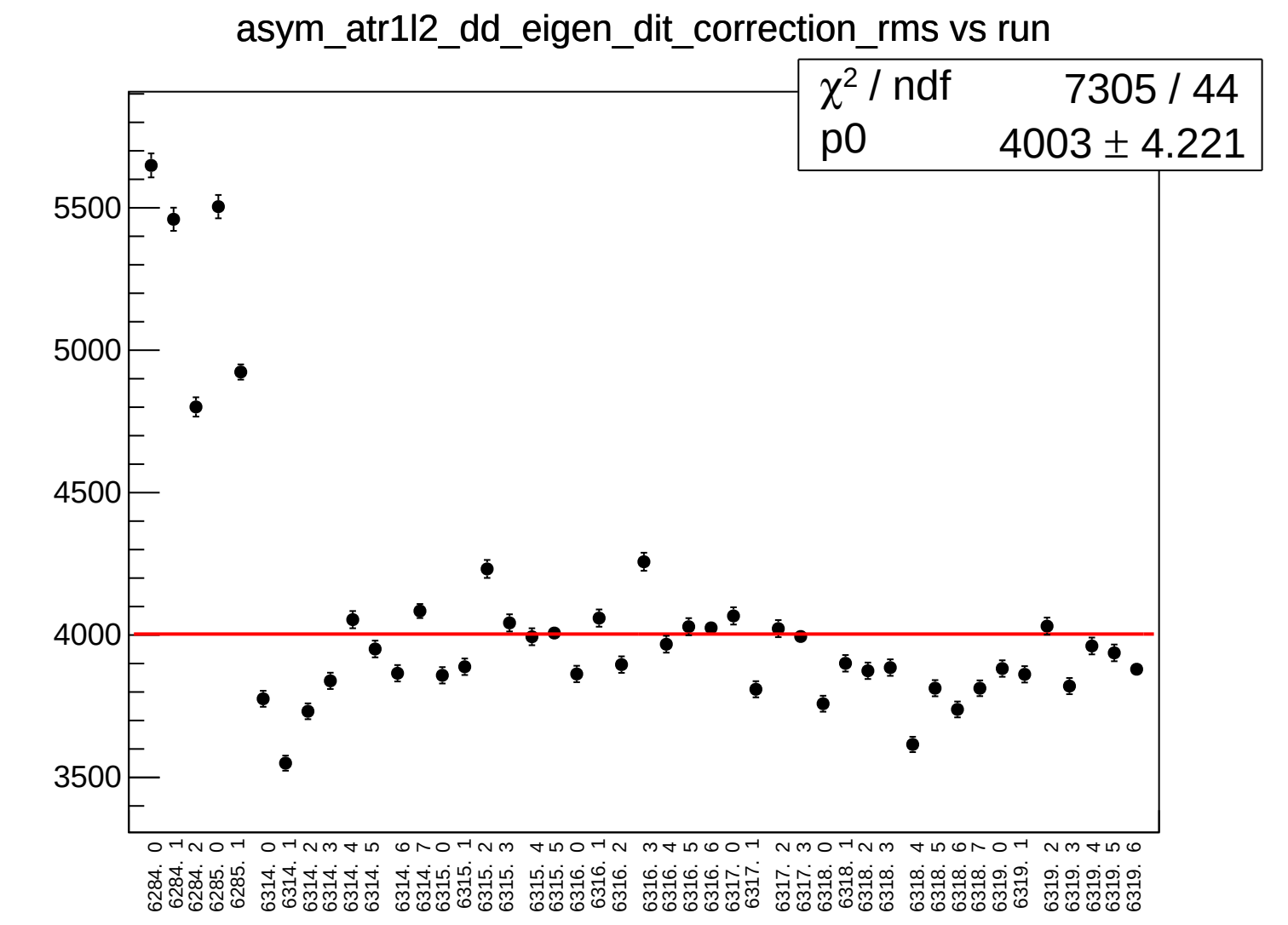
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

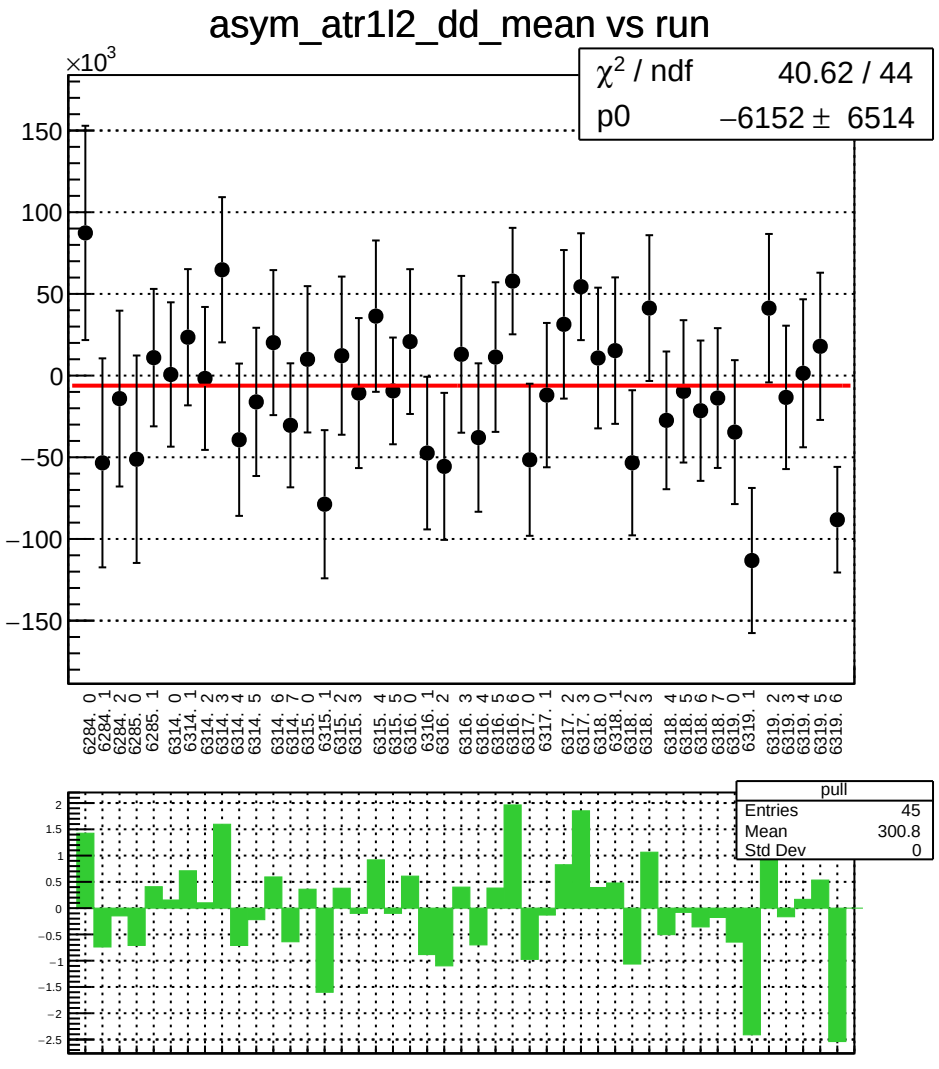

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 33.09 / 44
p0 109.6 ± 2775
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.049
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

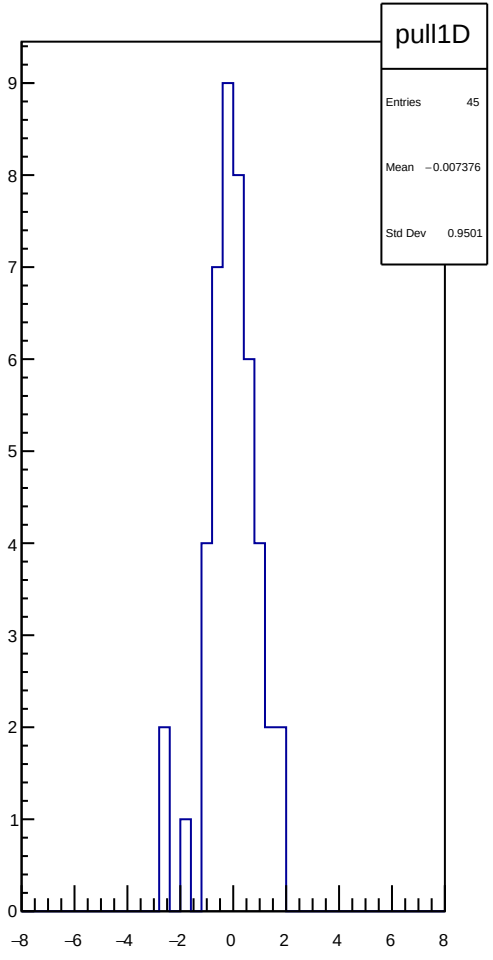

pull1D
Entries 45
Mean −0.03203
Std Dev 0.857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

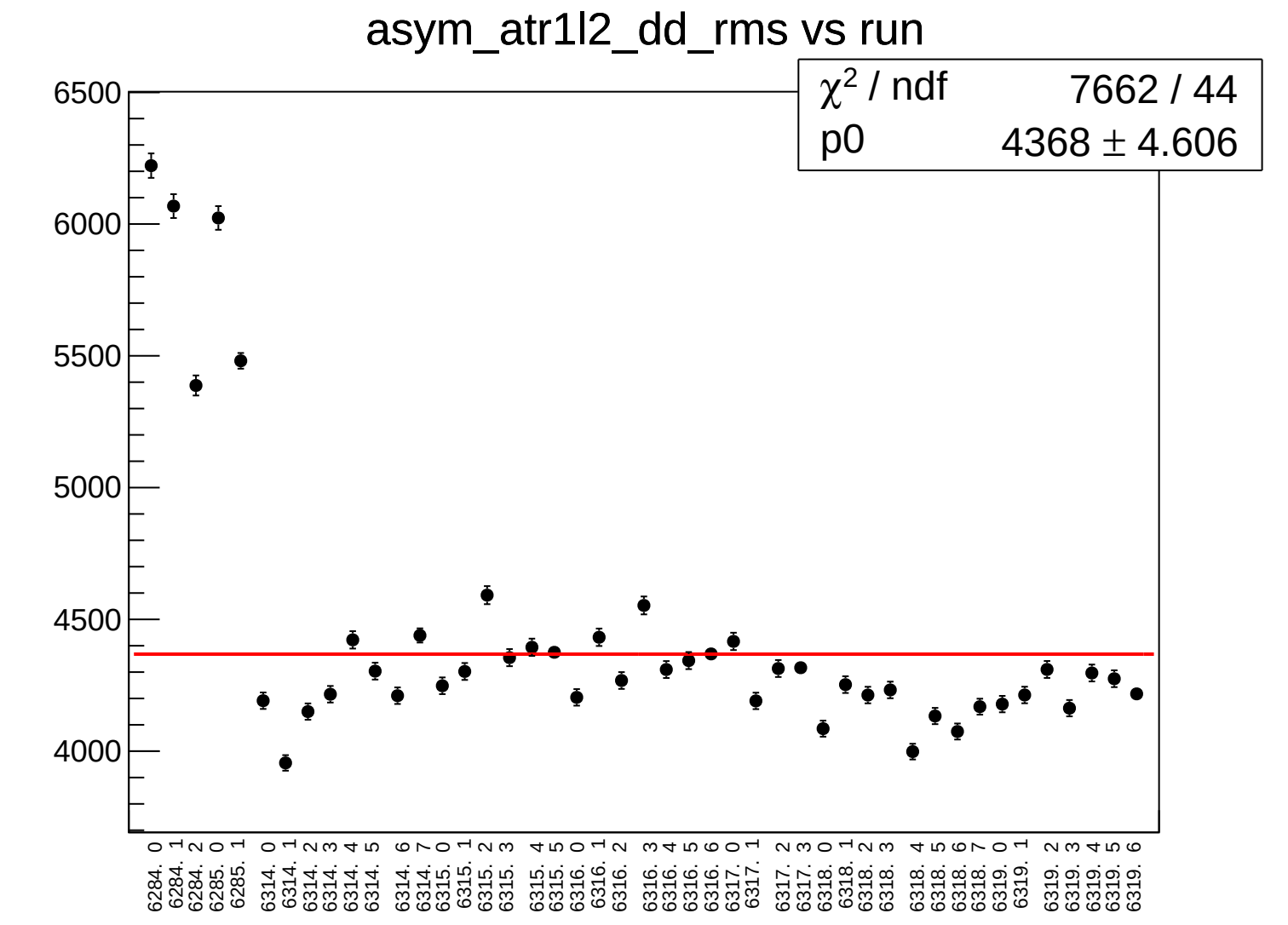

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 108.8 / 44
p0 1869 ± 1.962
1940
1920
1900
1880
1860
1840
1820
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

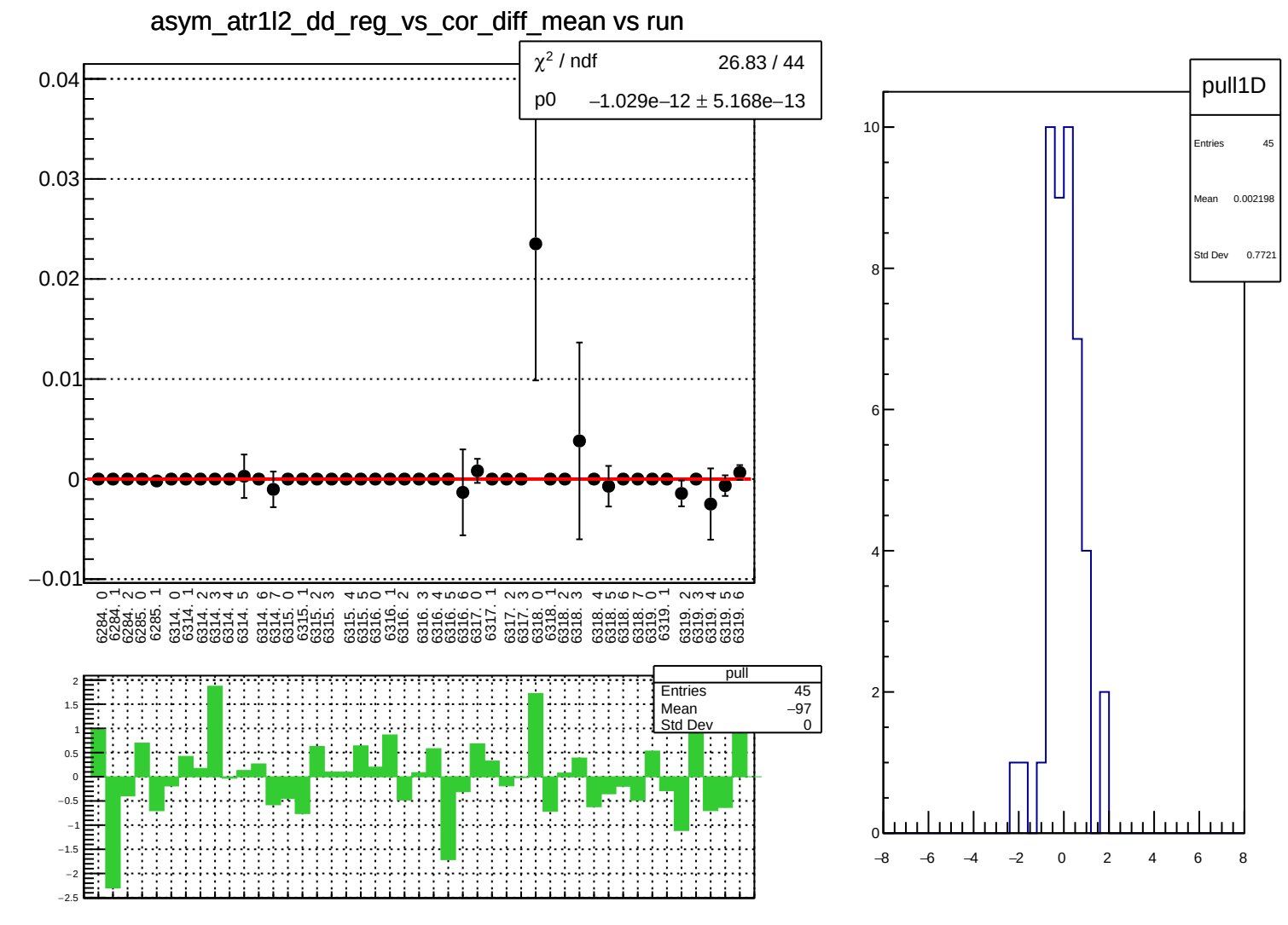

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 5987 ± 5969
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −655
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003856
Std Dev 0.9583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

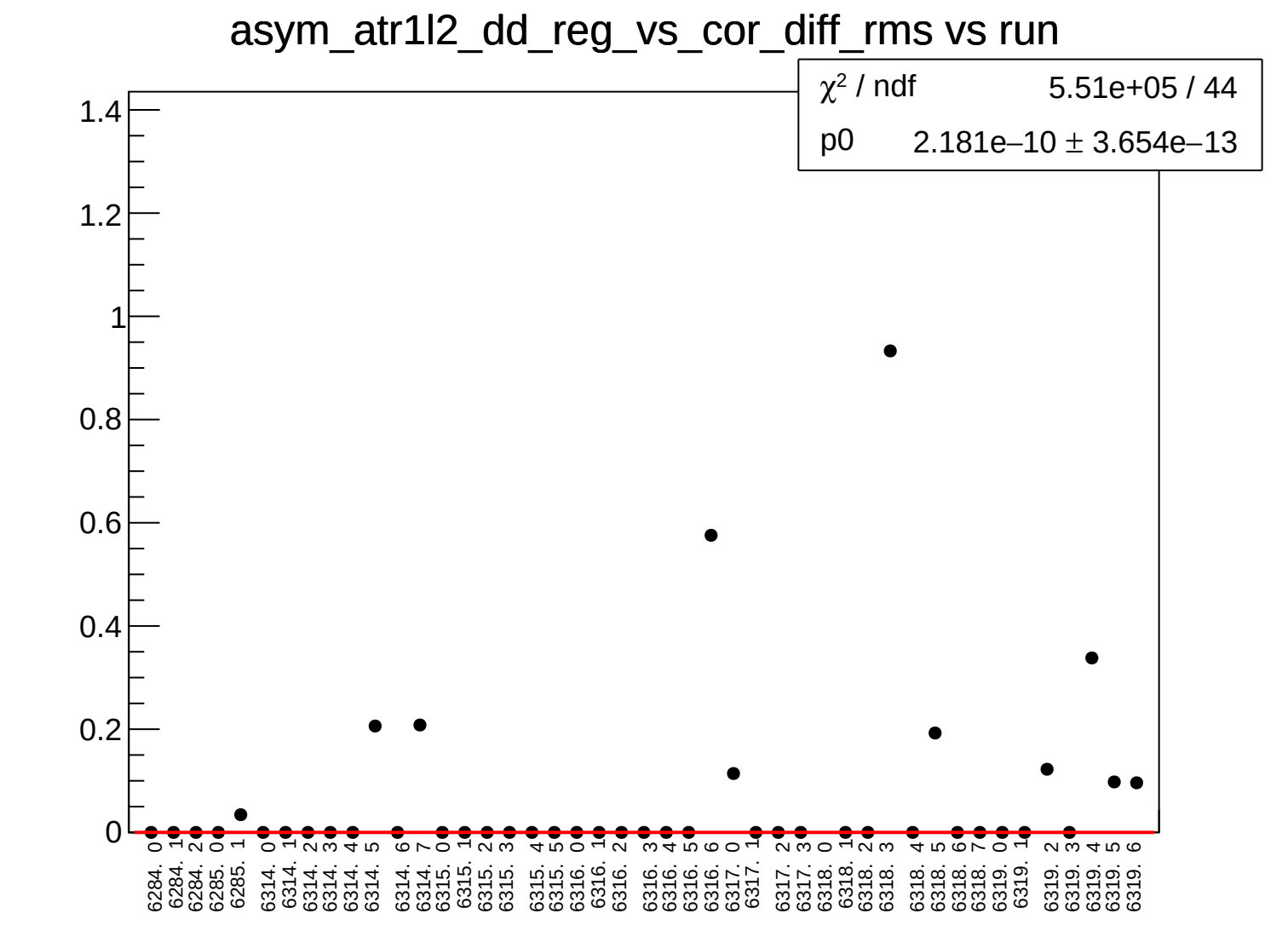

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7305 / 44
p0 4003 ± 4.221
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

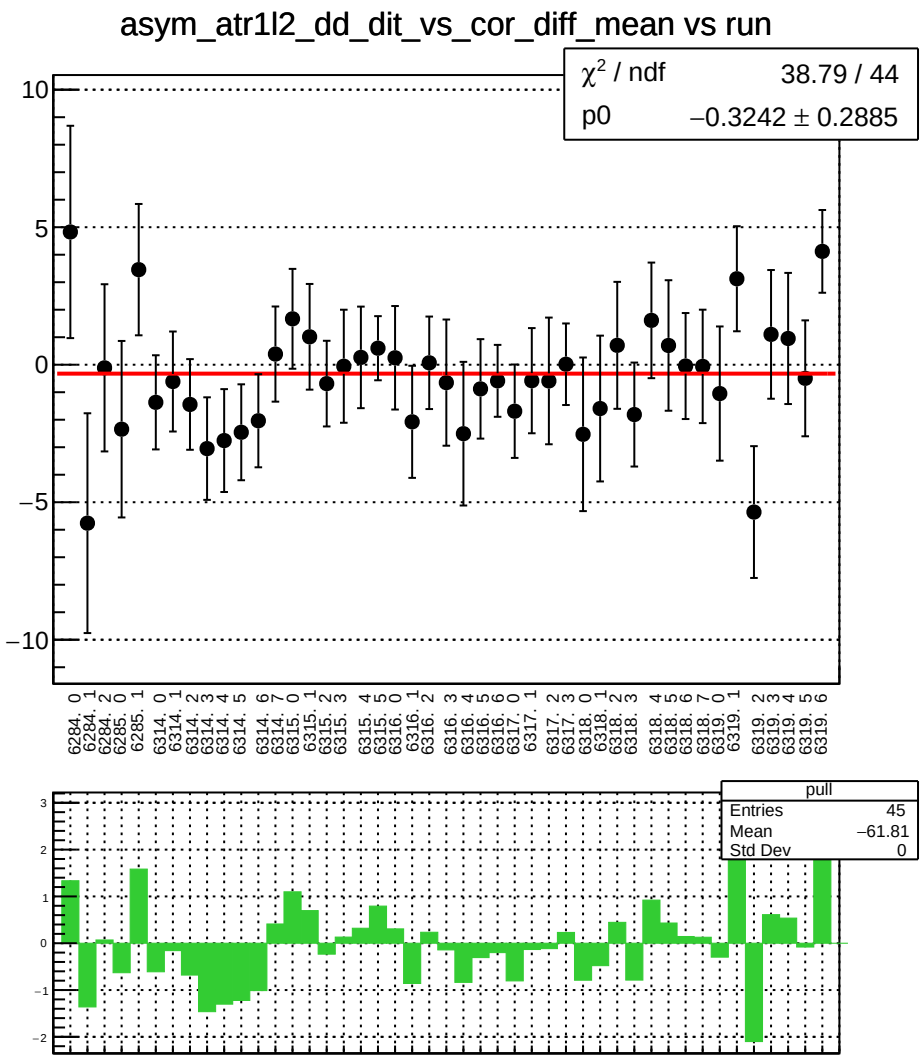

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 40.62 / 44
p0 −6152 ± 6514
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 300.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

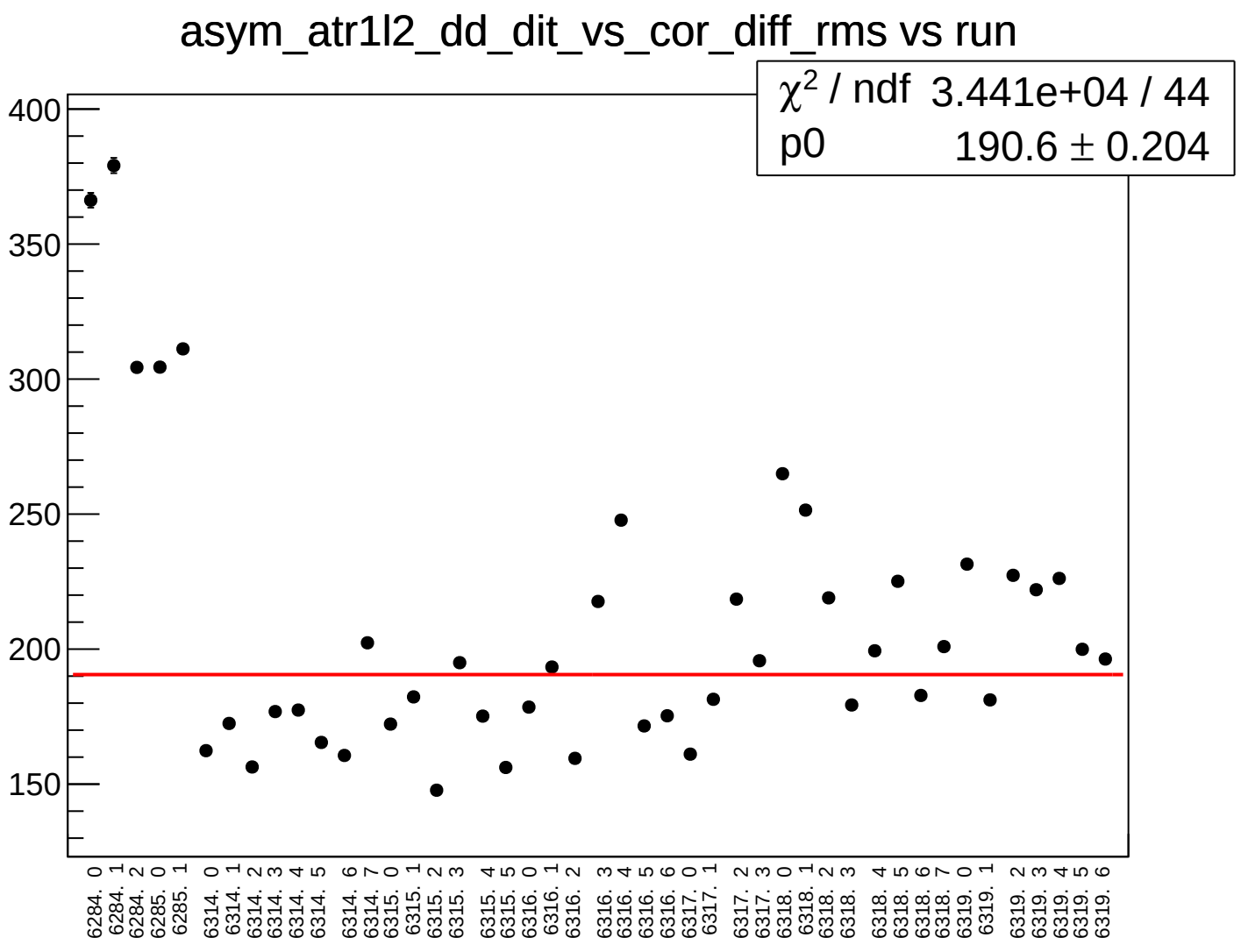

pull1D
Entries 45
Mean −0.007376
Std Dev 0.9501
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 7662 / 44
p0 4368 ± 4.606
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

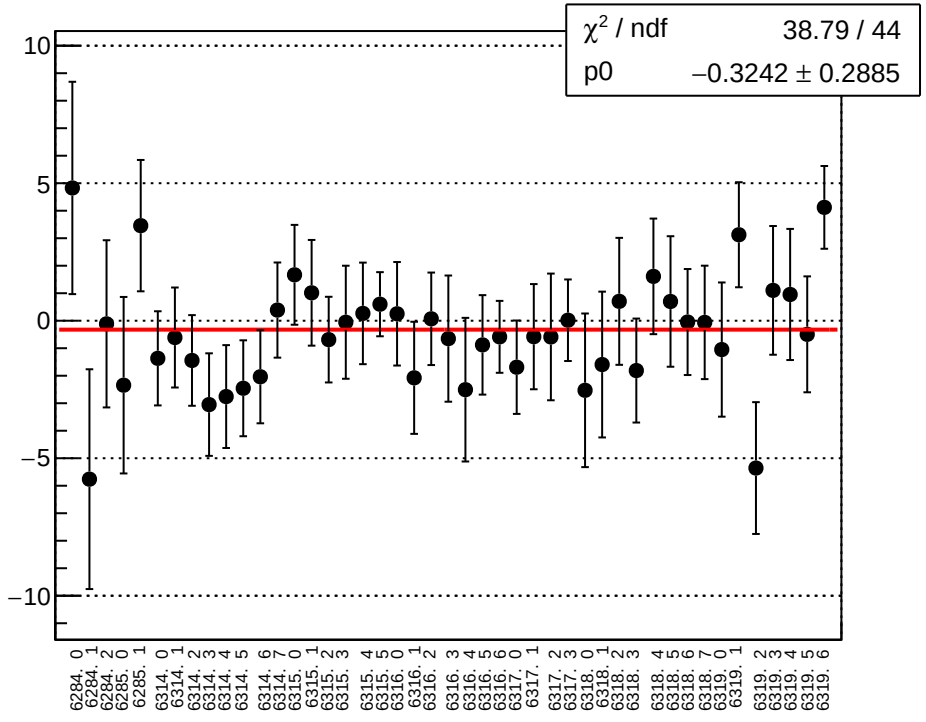

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.83 / 44
p0 −1.029e−12 ± 5.168e−13
0.04
0.03
0.02
0.01
0
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.002198
Std Dev 0.7721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

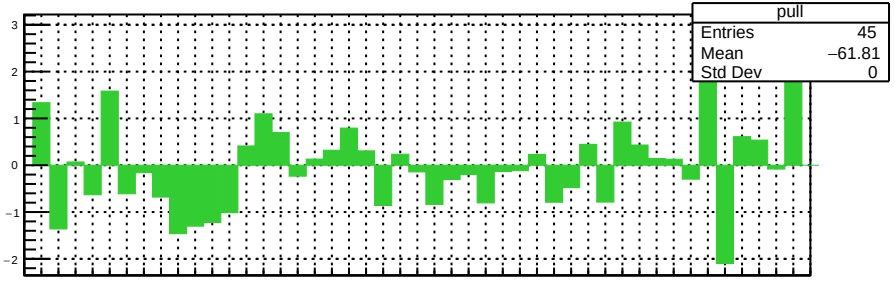

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.51e+05 / 44
p0 2.181e−10 ± 3.654e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

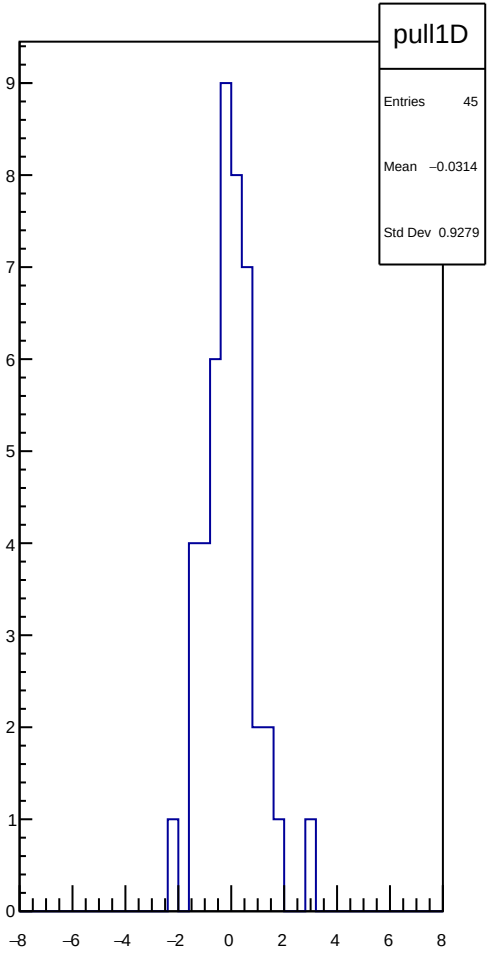

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.79 / 44
p0 −0.3242 ± 0.2885
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −61.81
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0314
Std Dev 0.9279
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

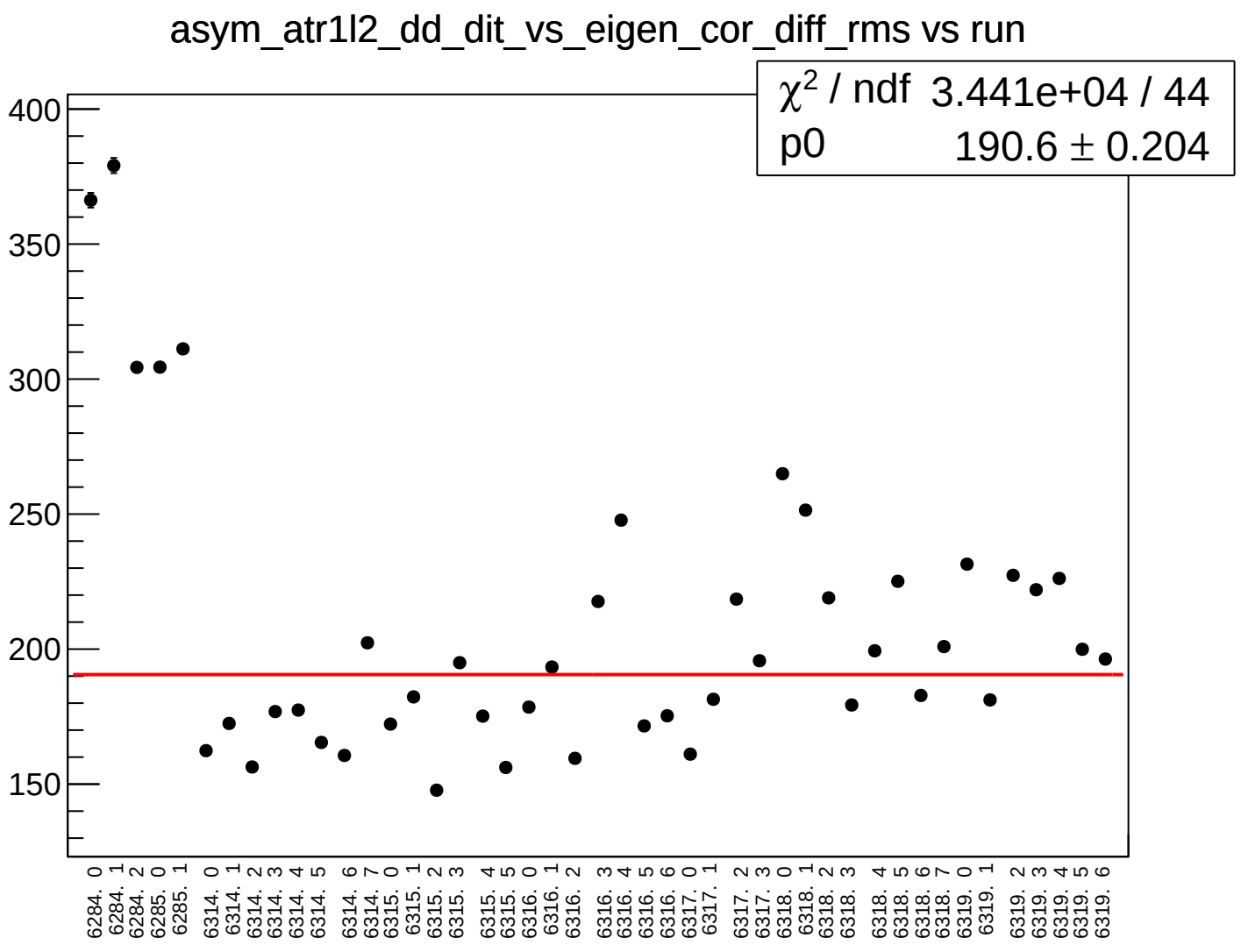

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.441e+04 / 44
p0 190.6 ± 0.204
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

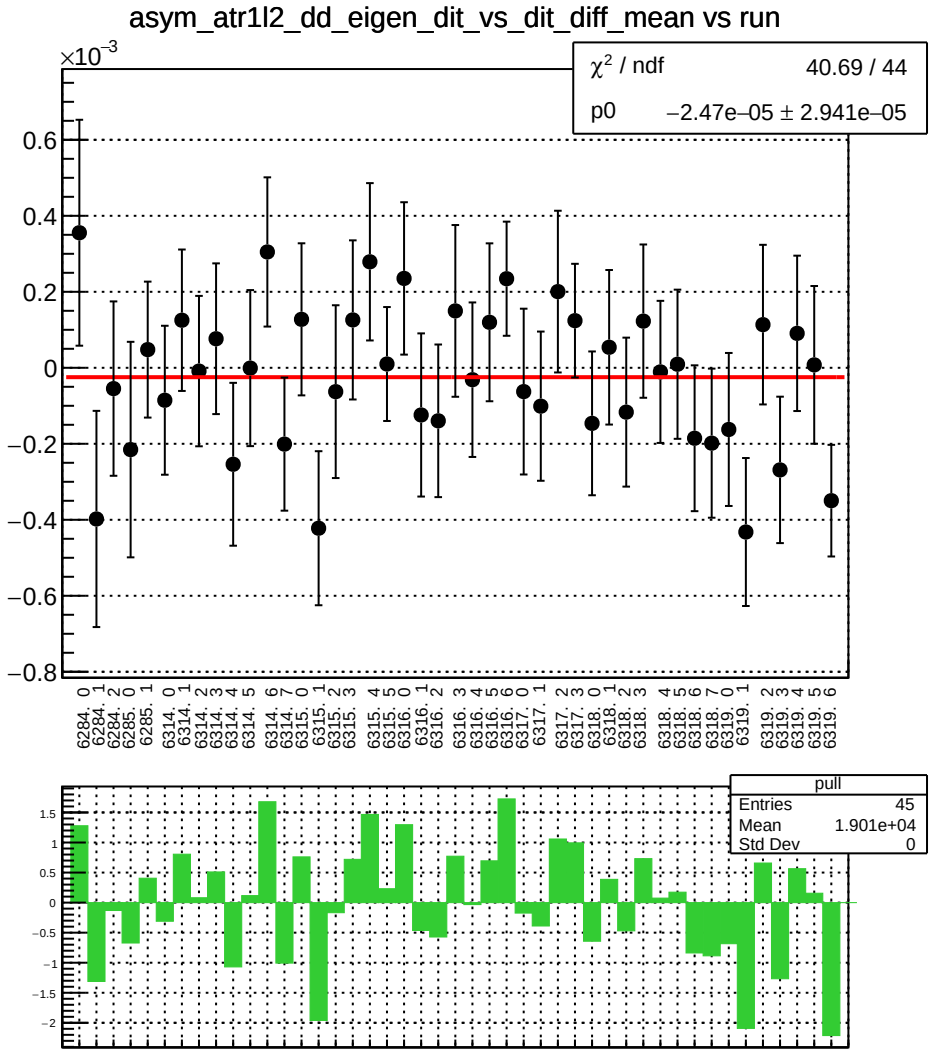
asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run

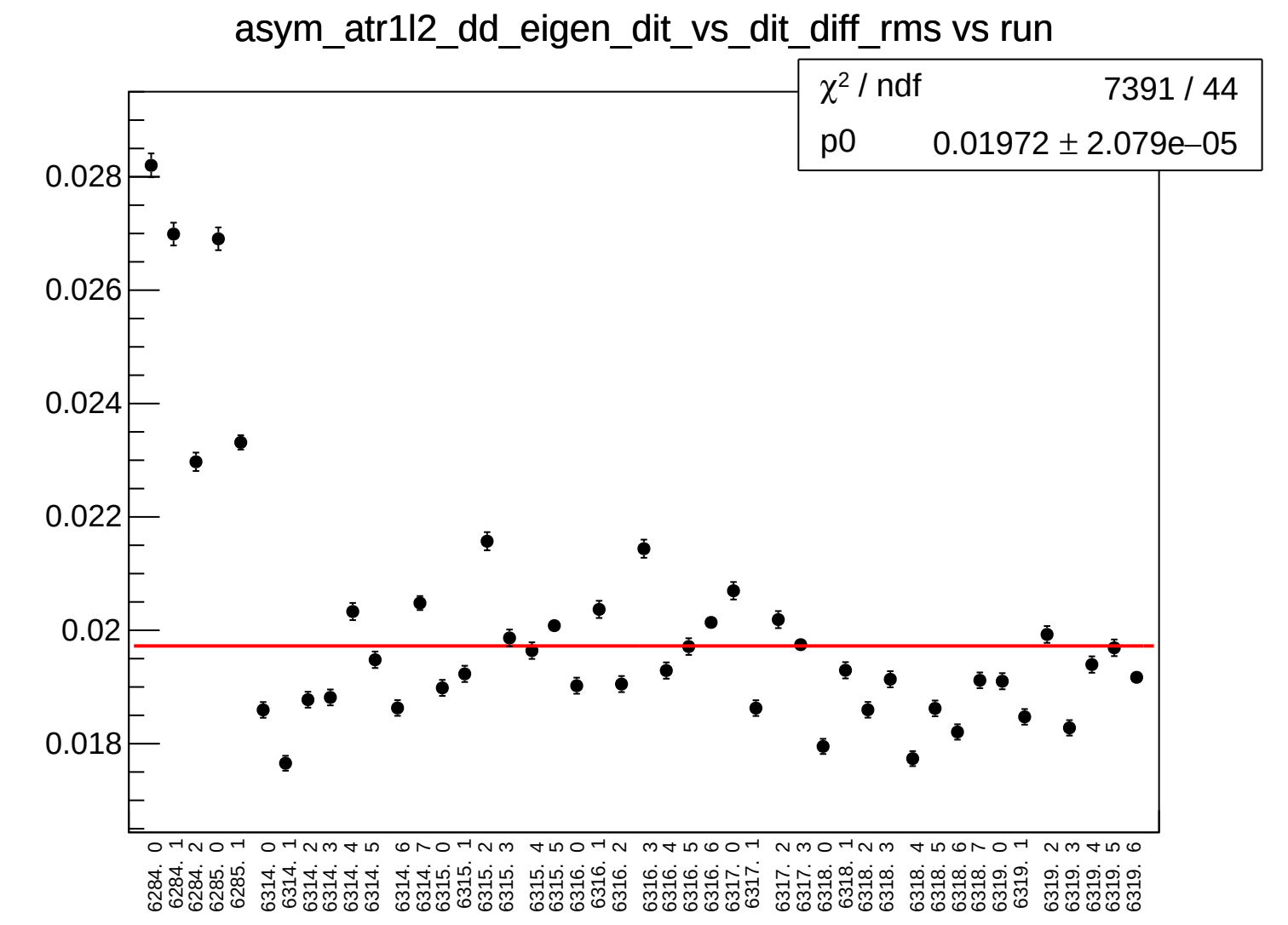


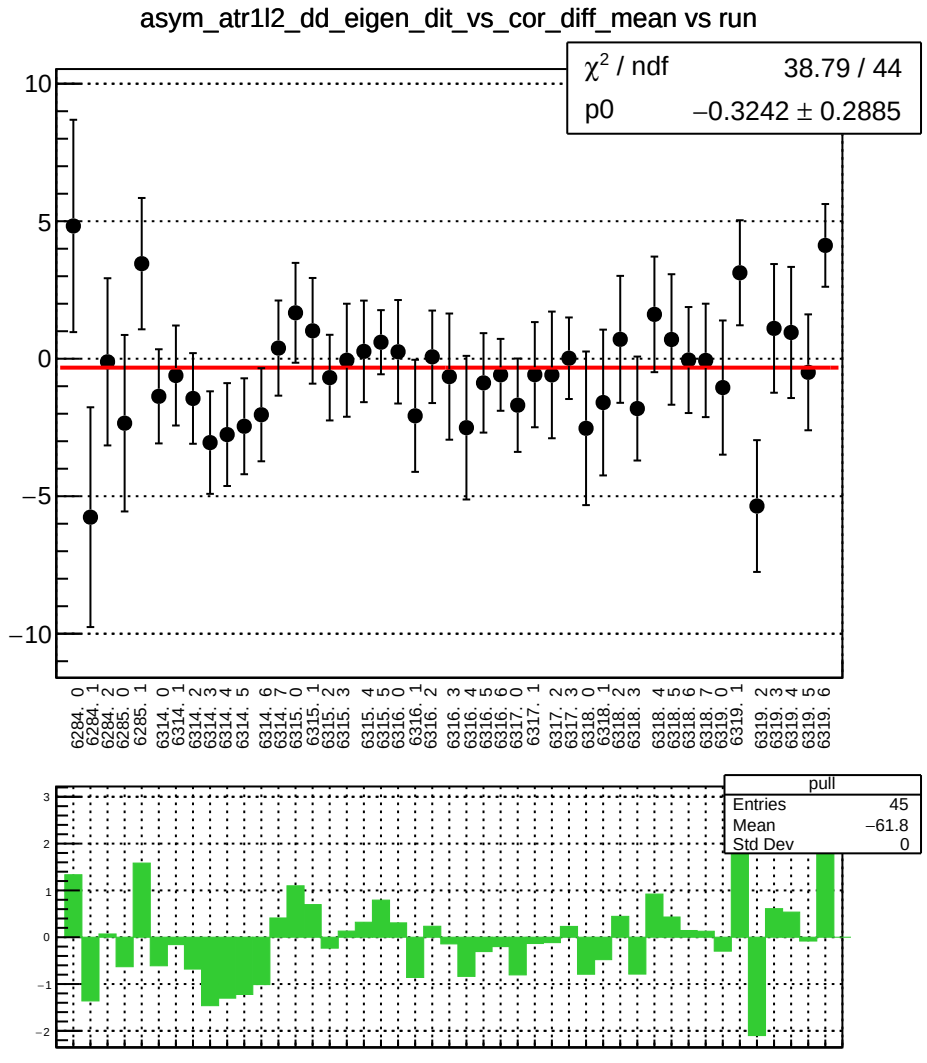


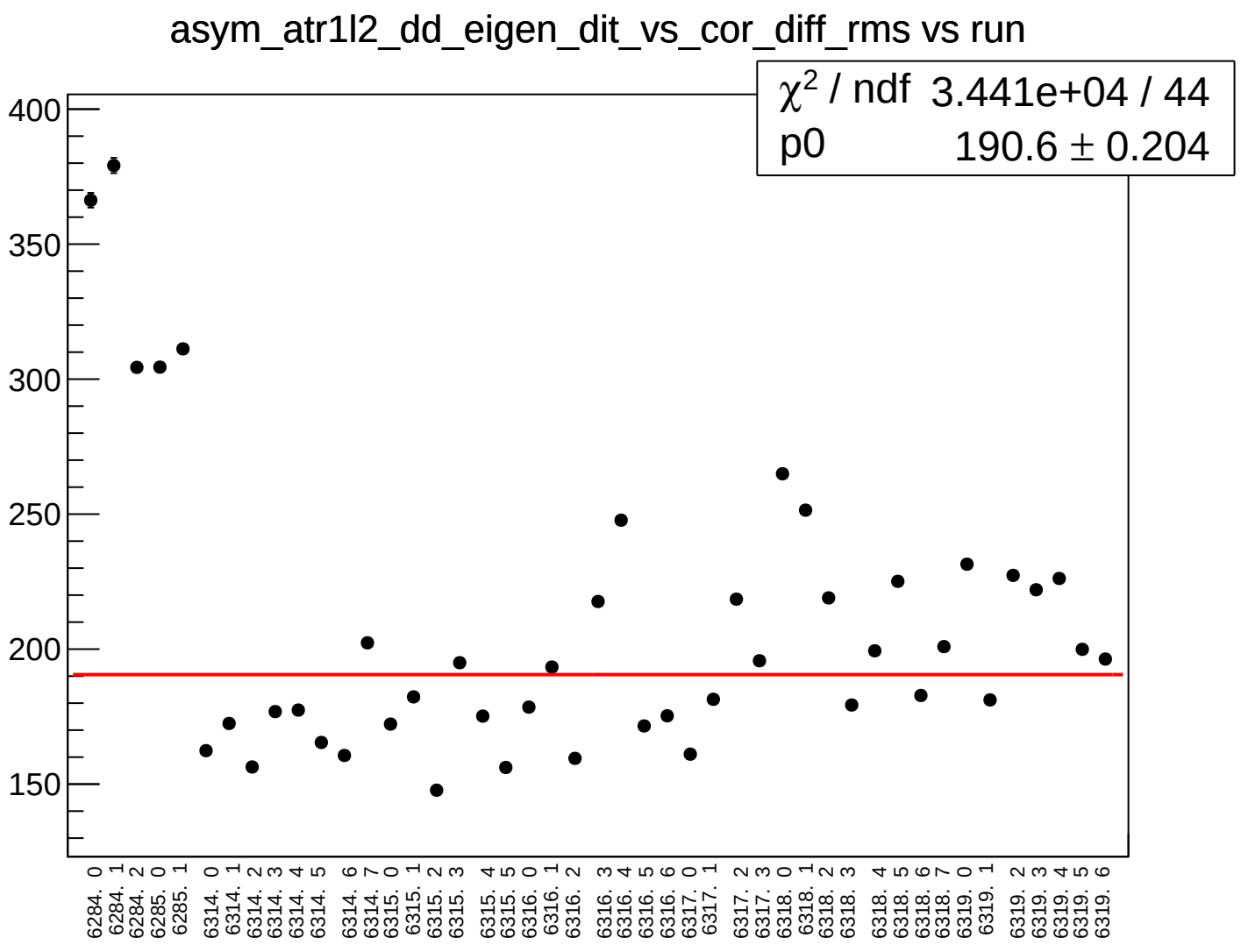


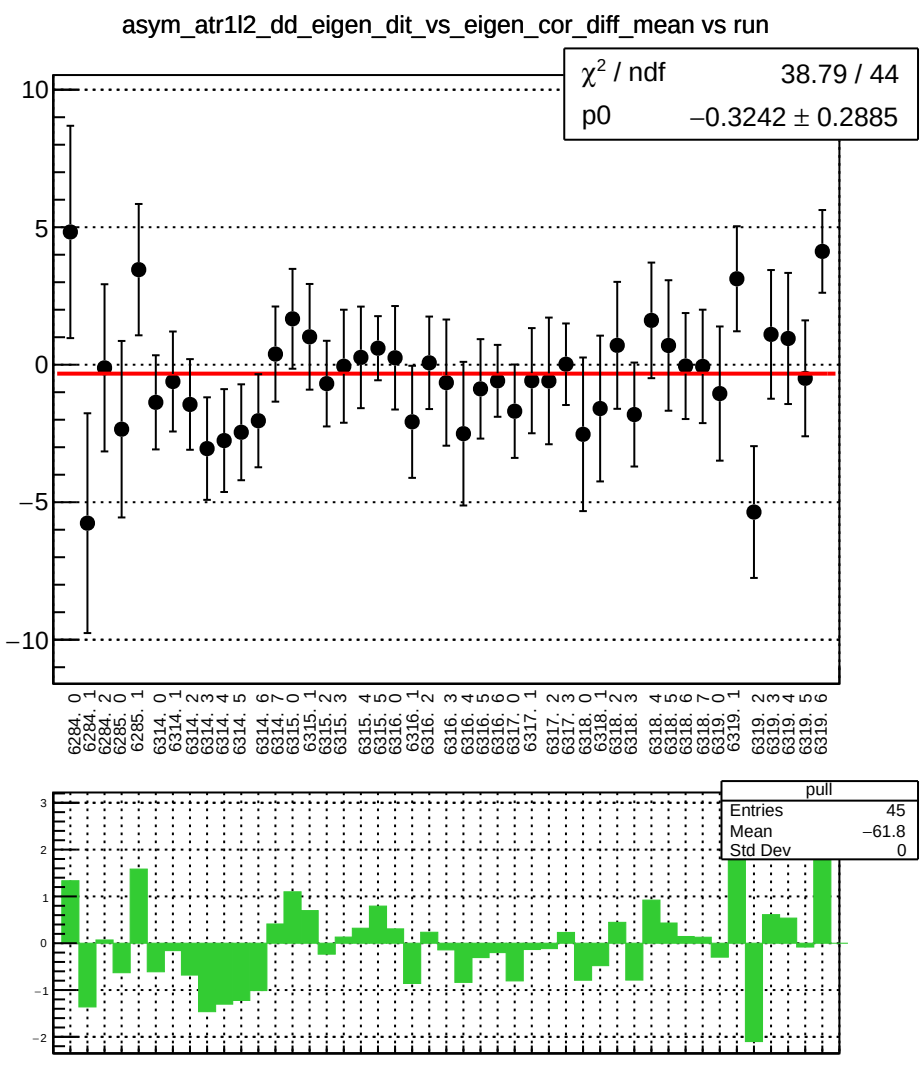

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.441e+04 / 44
p0 190.6 ± 0.204
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

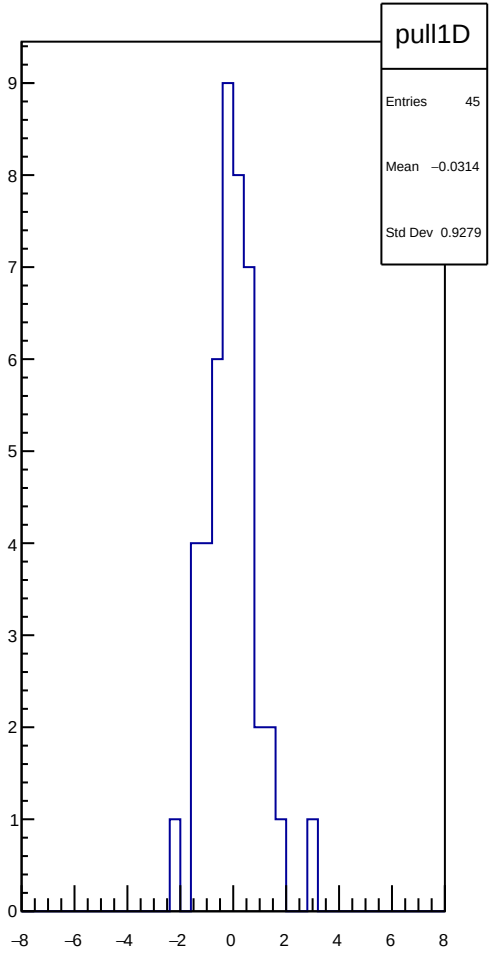

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.69 / 44
p0 −2.47e−05 ± 2.941e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.901e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.000123
Std Dev 0.9509
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

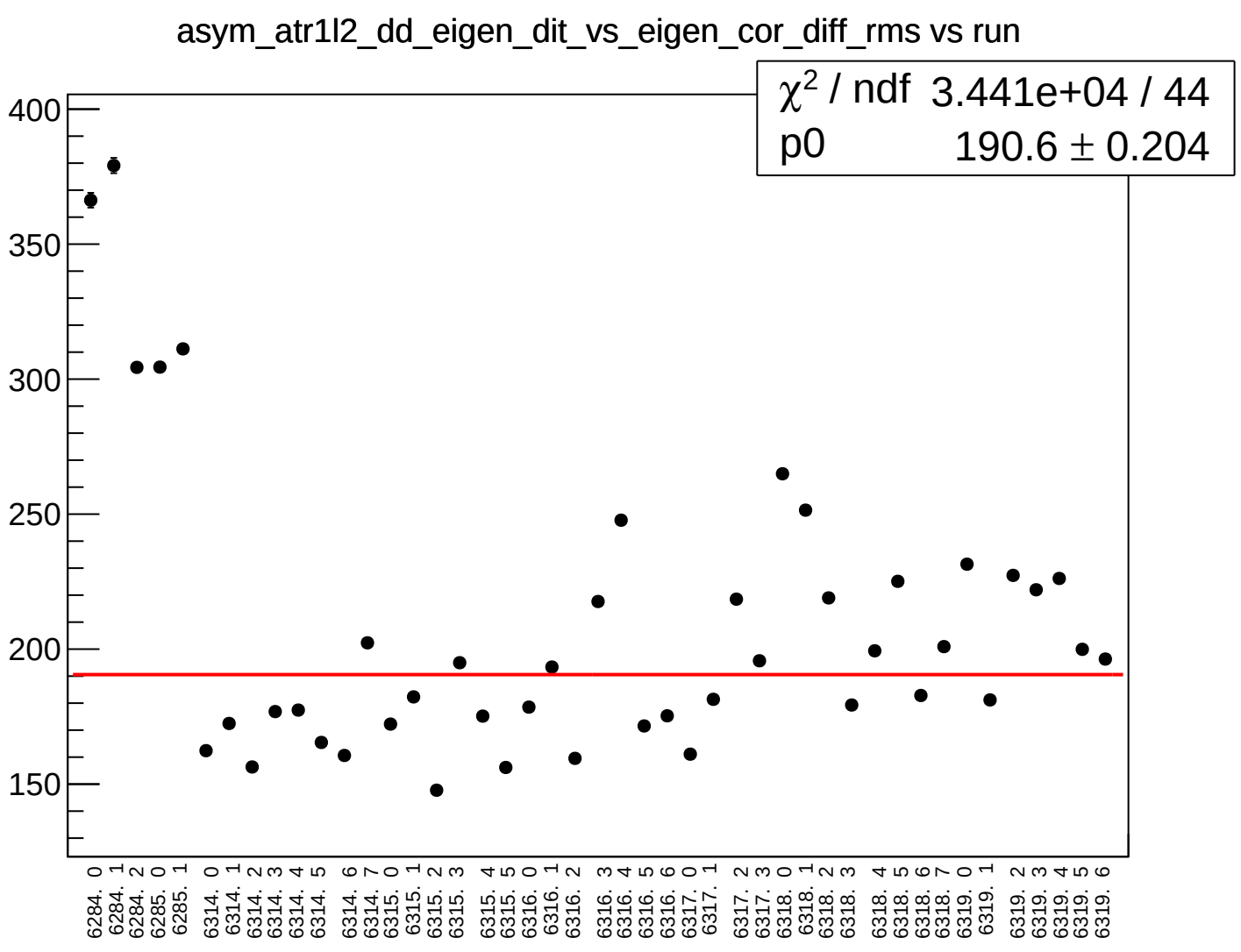

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7391 / 44
p0 0.01972 ± 2.079e−05
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

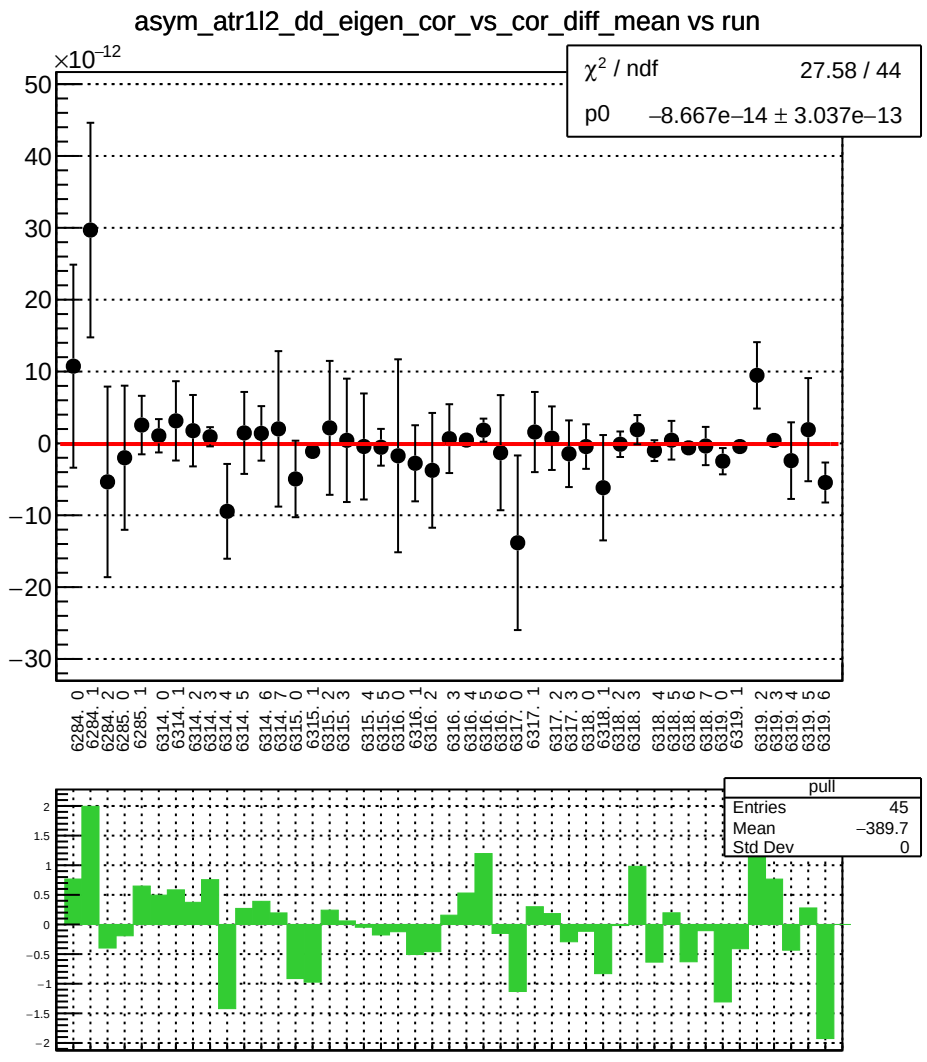

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.79 / 44
p0 −0.3242 ± 0.2885
pull
Entries 45
Mean −61.8
Std Dev 0
pull1D
Entries 45
Mean −0.0314
Std Dev 0.9279

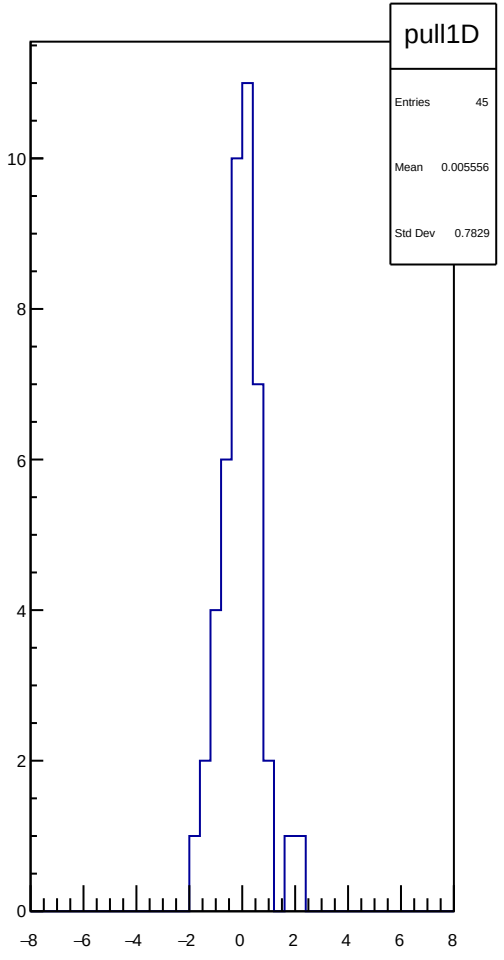

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.441e+04 / 44
p0 190.6 ± 0.204
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

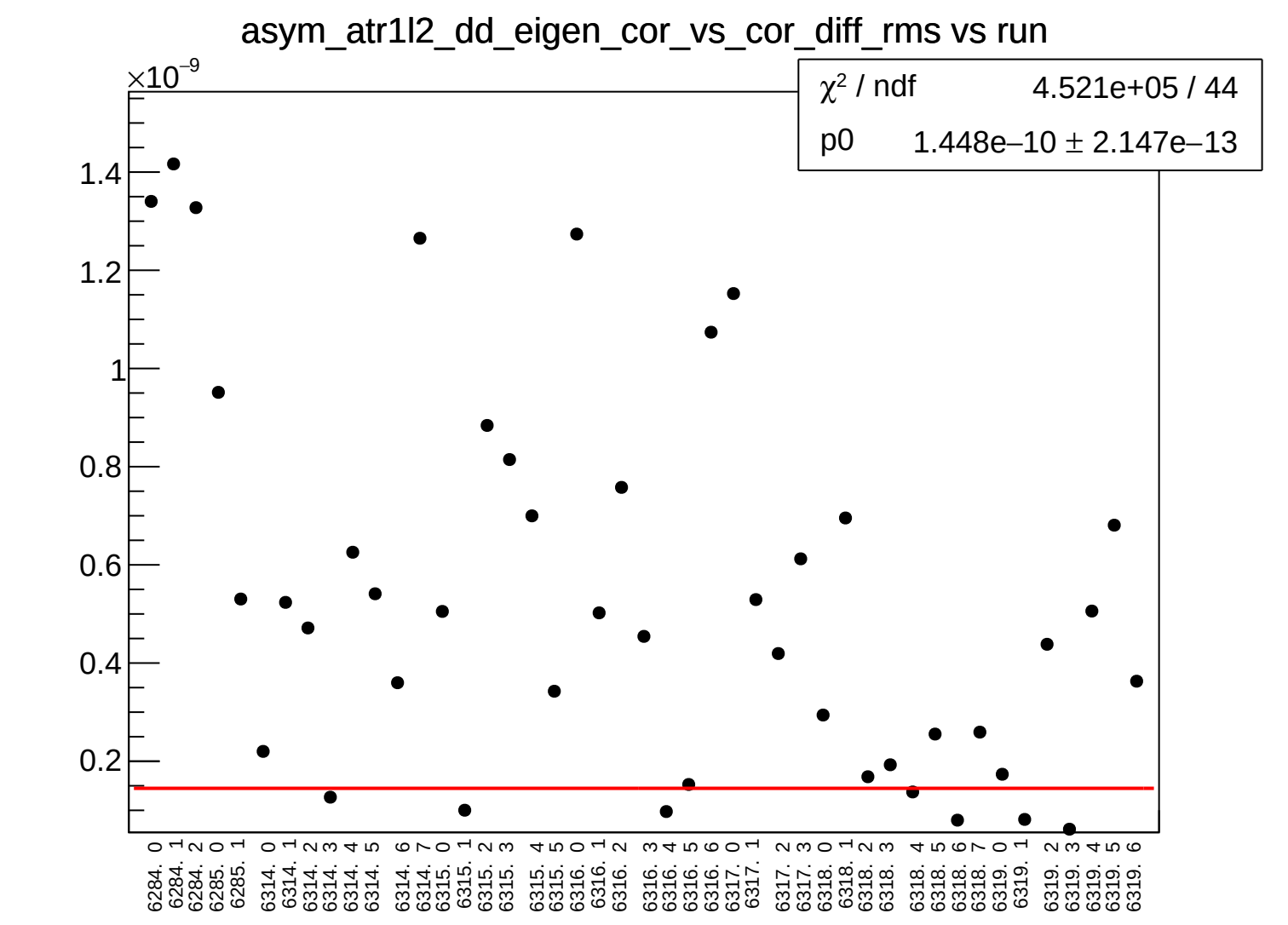

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.79 / 44
p0 −0.3242 ± 0.2885
pull
Entries 45
Mean −61.8
Std Dev 0

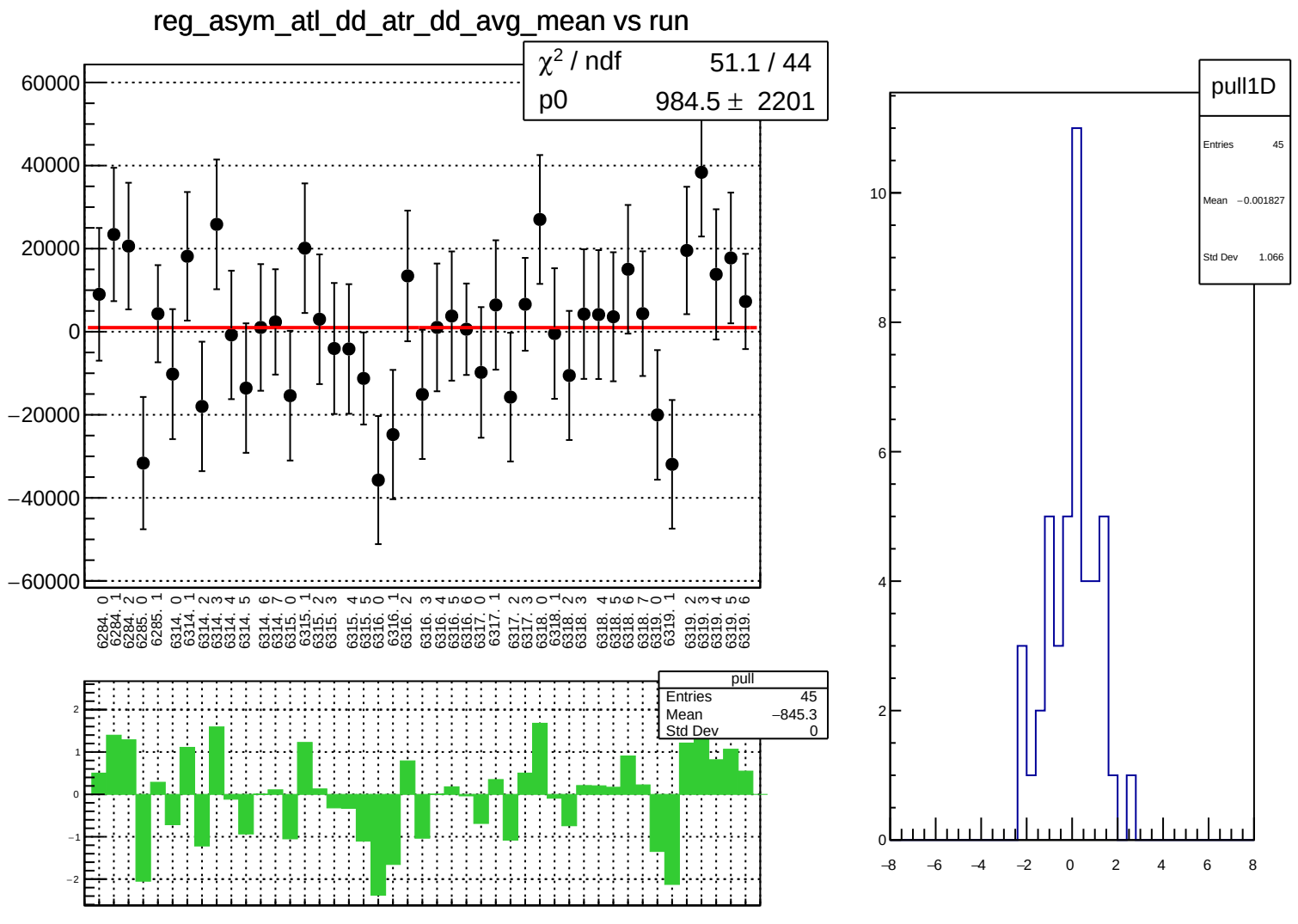

pull1D
Entries 45
Mean −0.0314
Std Dev 0.9279

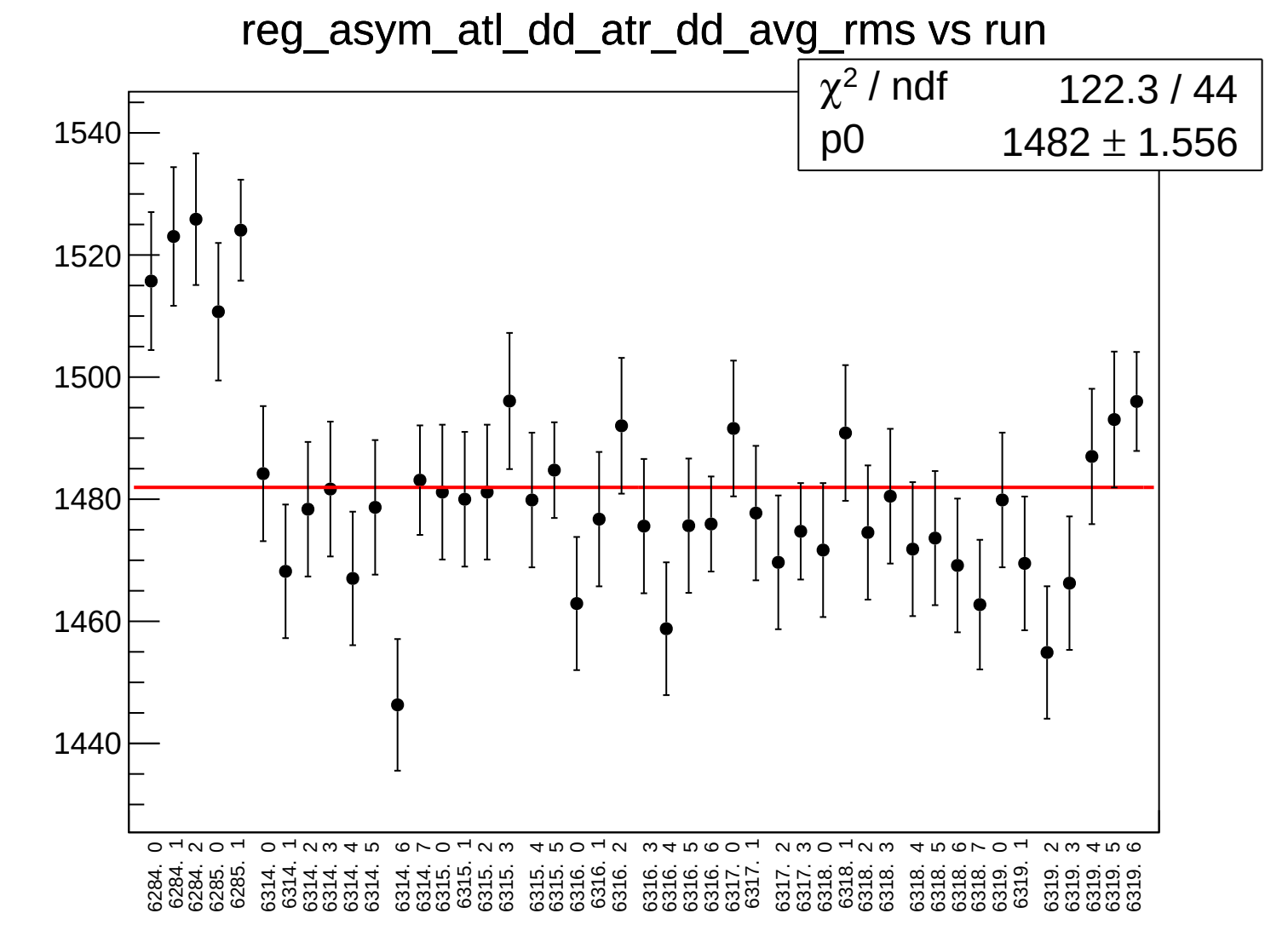

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.441e+04 / 44
p0 190.6 ± 0.204
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

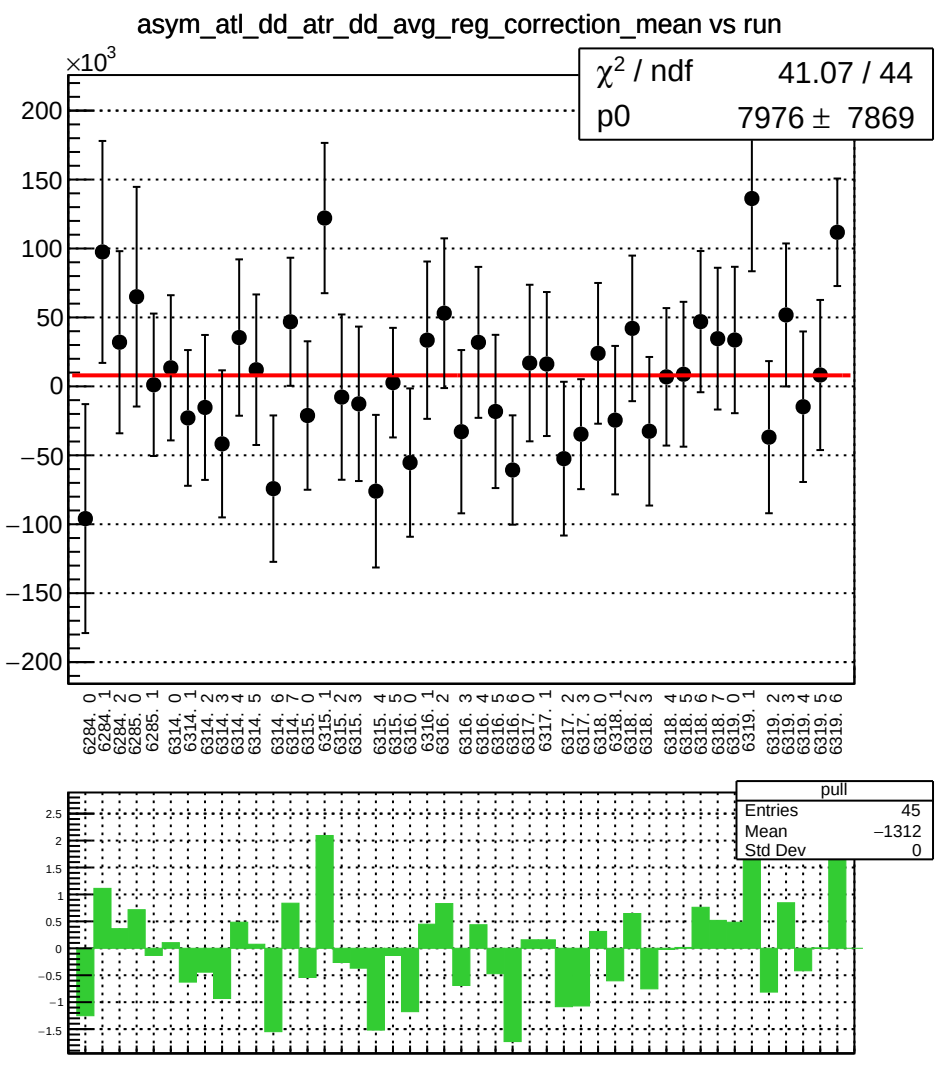

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.58 / 44
p0 −8.667e−14 ± 3.037e−13
pull
Entries 45
Mean −389.7
Std Dev 0

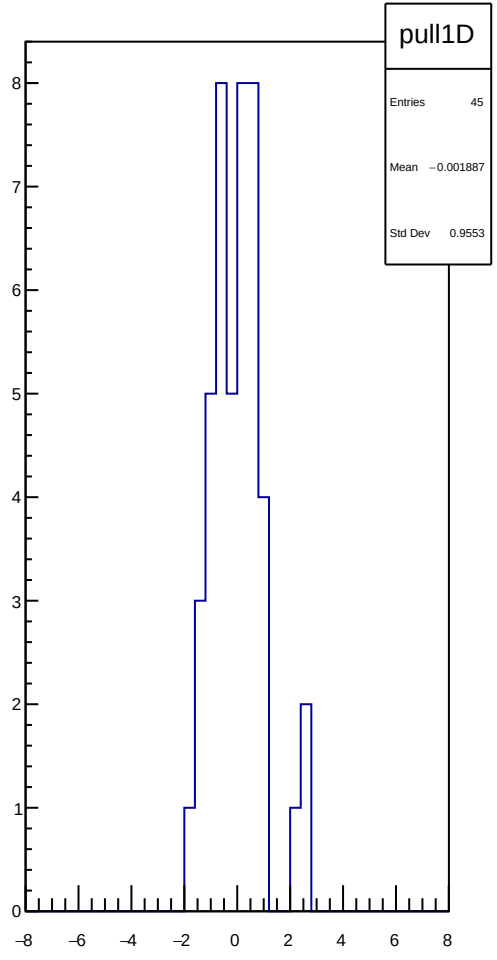

pull1D
Entries 45
Mean 0.005556
Std Dev 0.7829

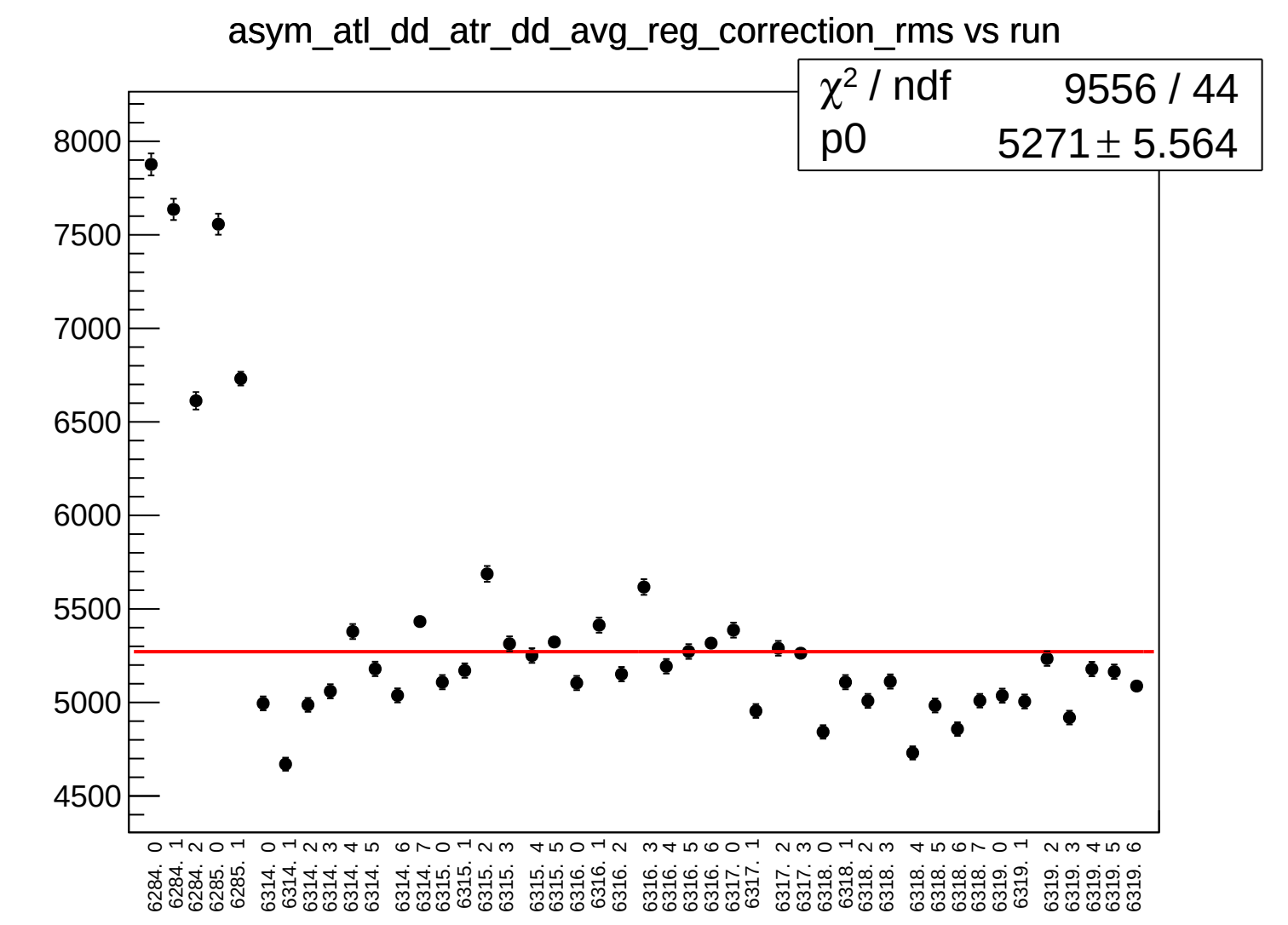

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.521e+05 / 44
p0 1.448e−10 ± 2.147e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

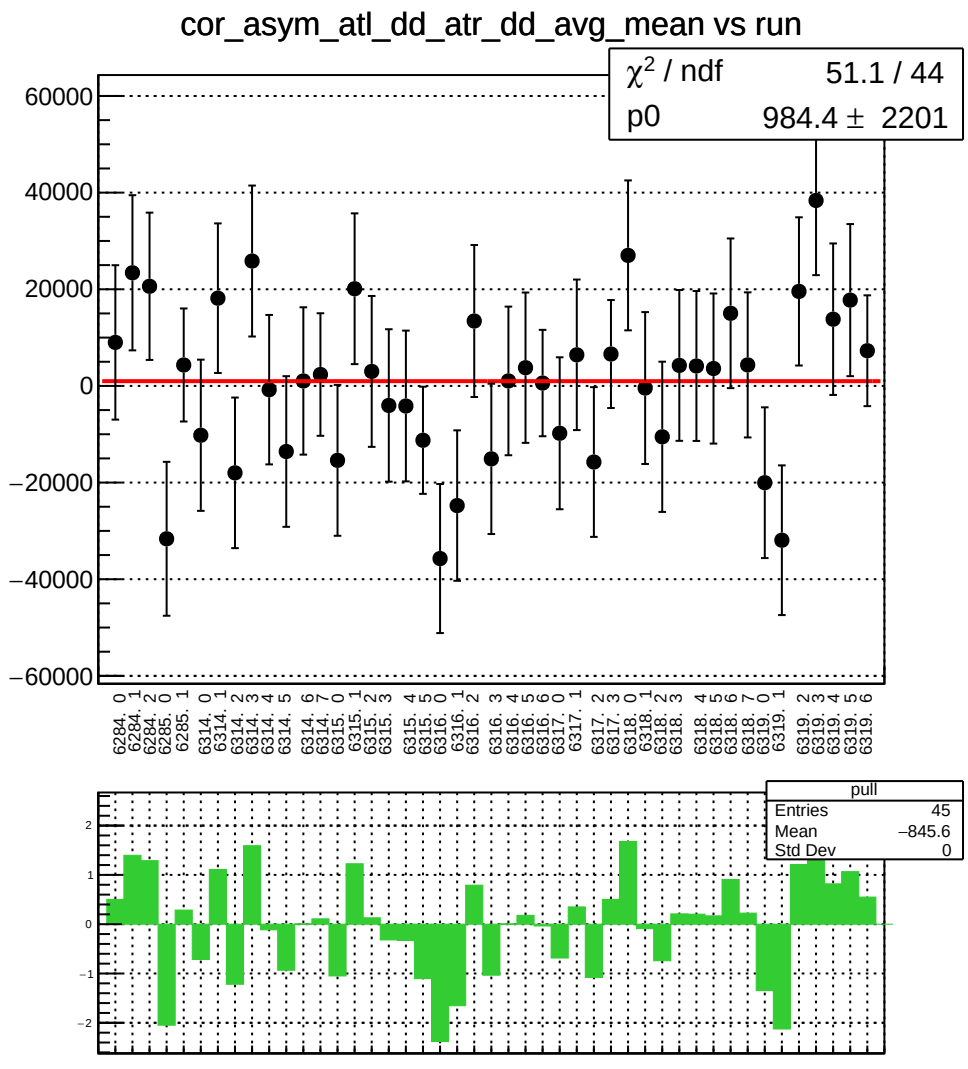

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.1 / 44
p0 984.5 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.001827
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

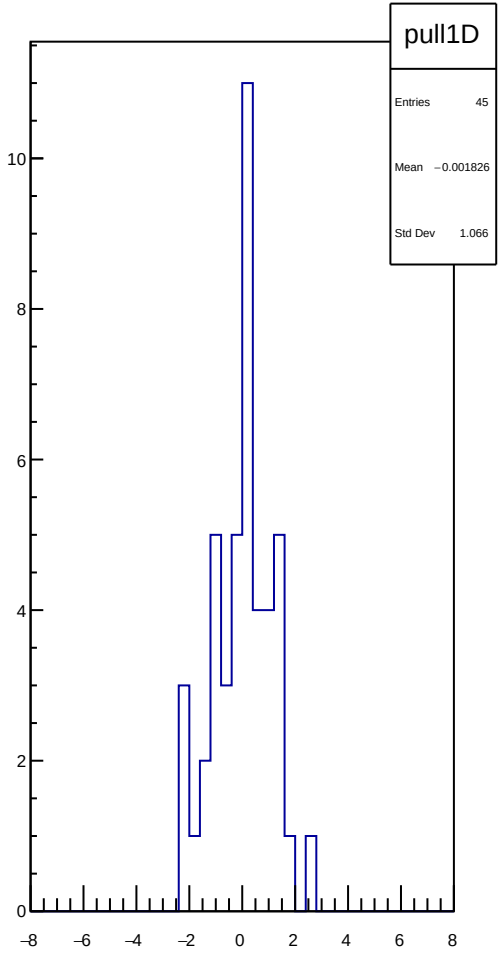

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

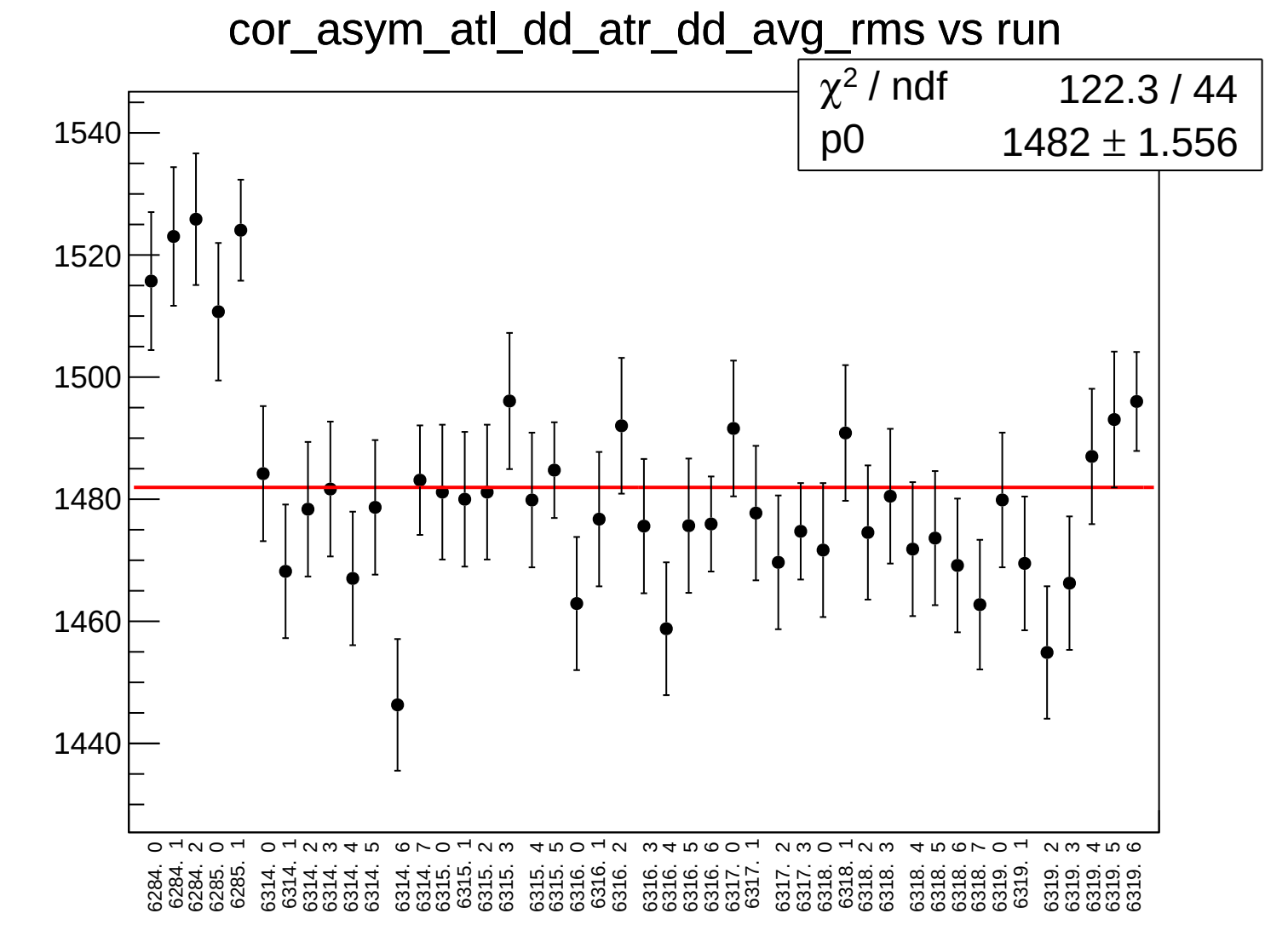

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1312
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001887
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 9556 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001826
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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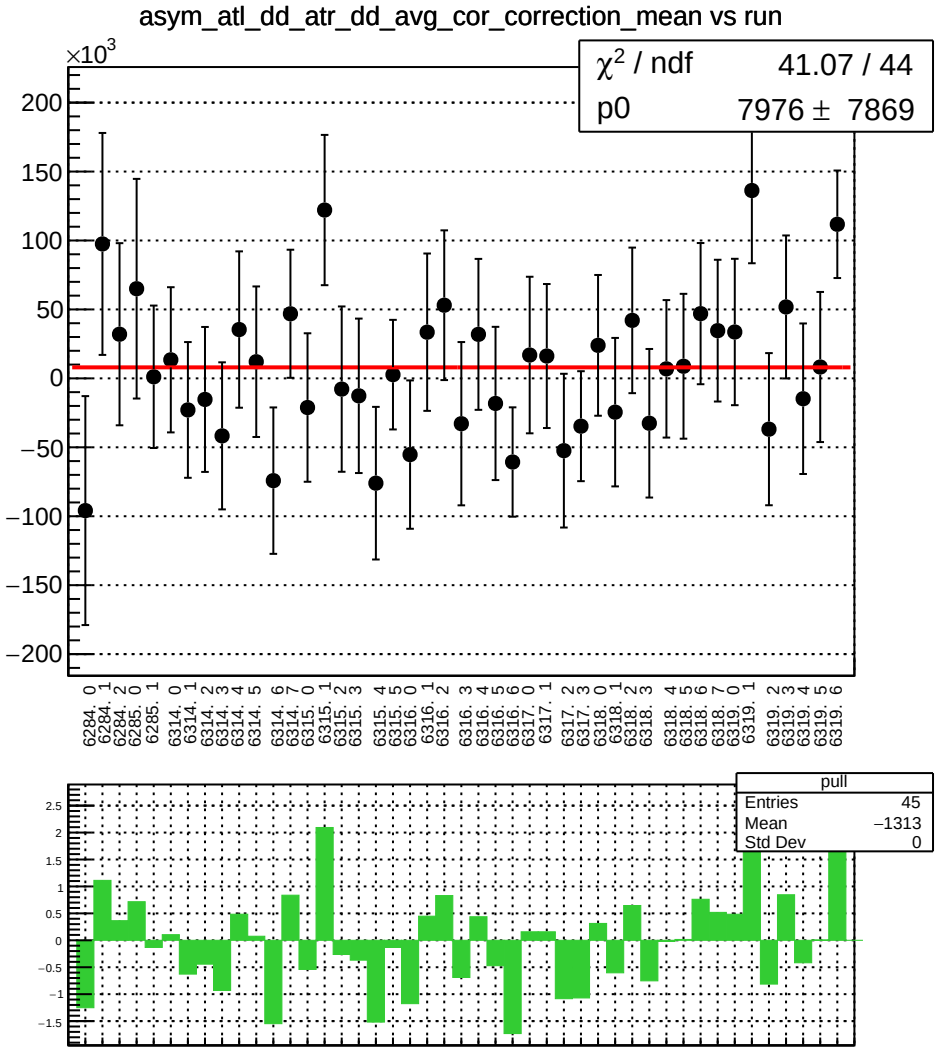
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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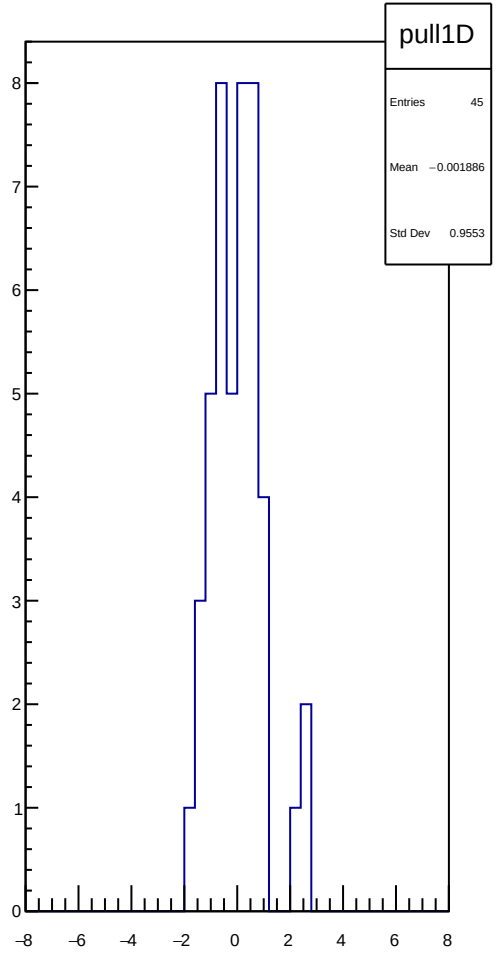
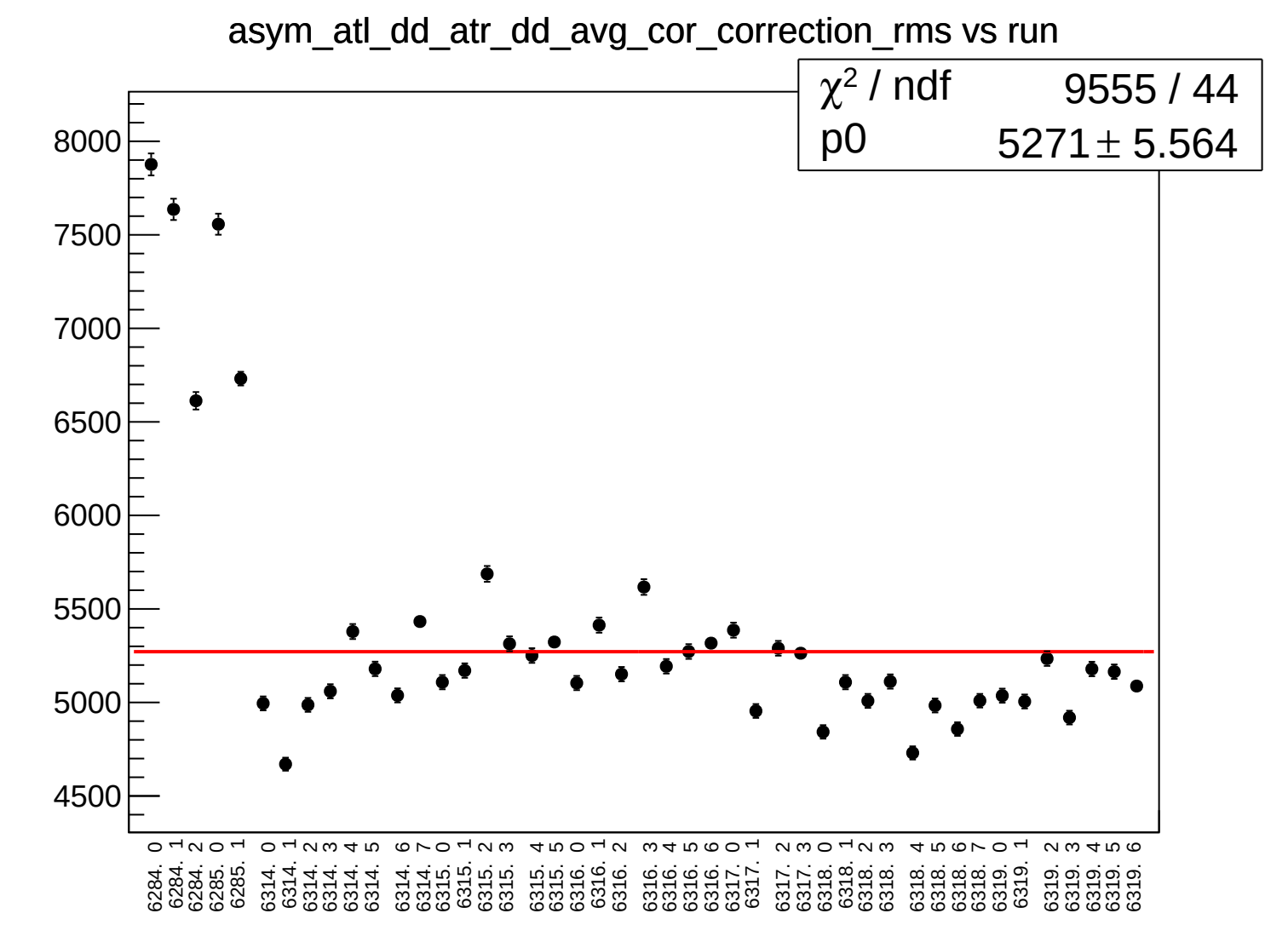
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001886
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6319. 2
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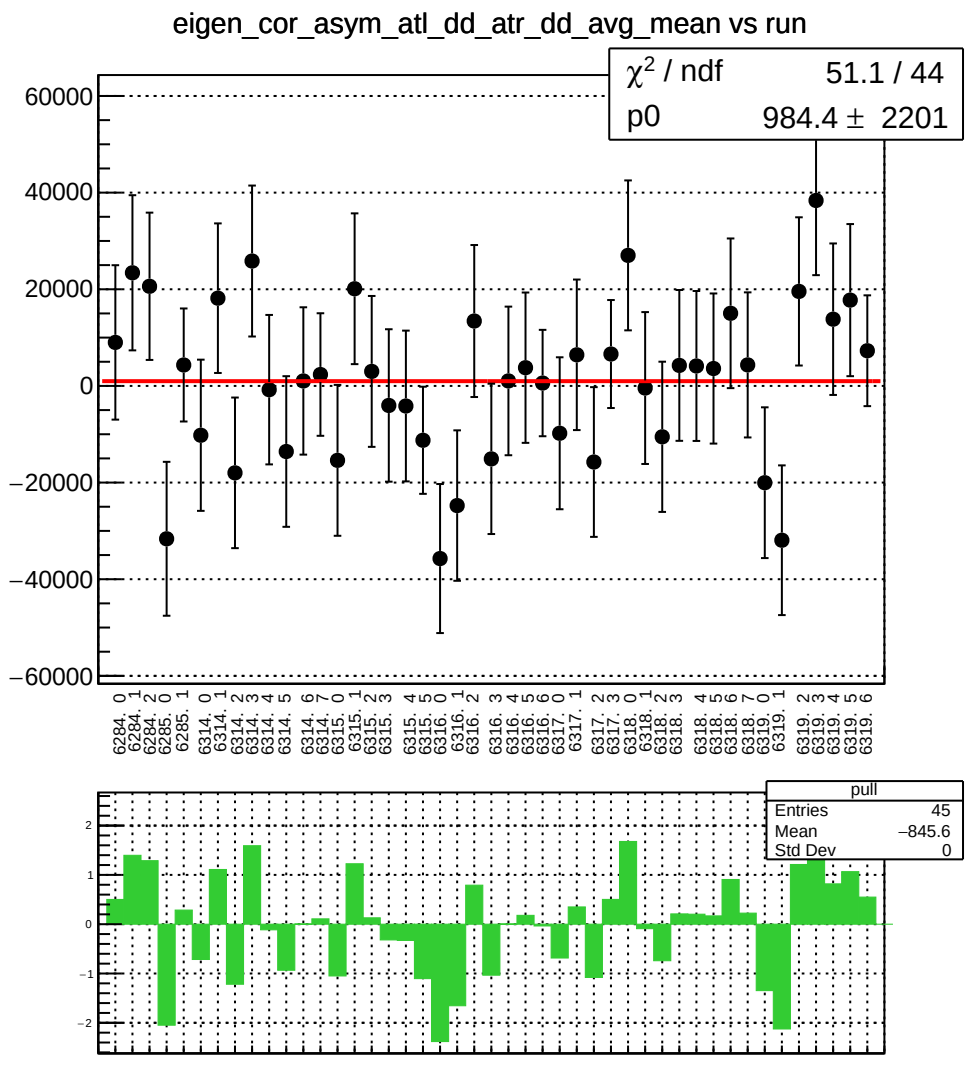
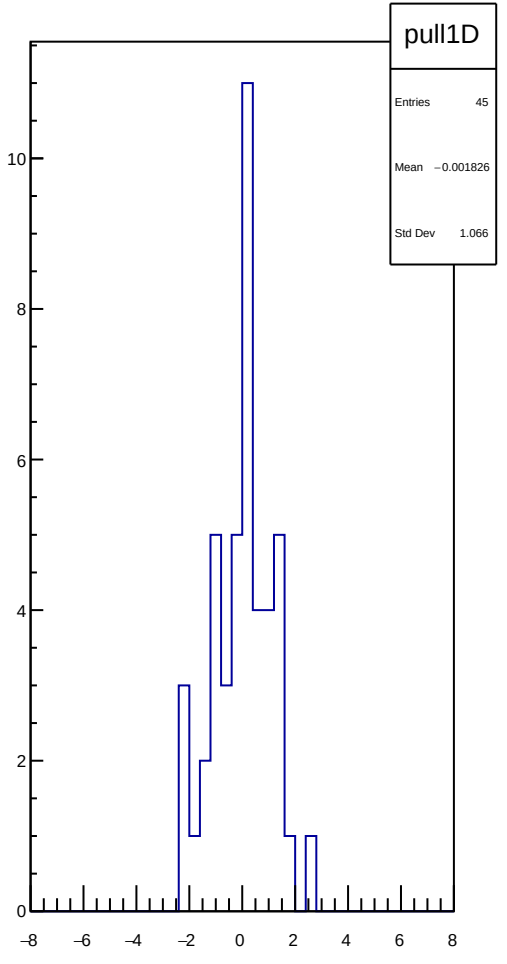
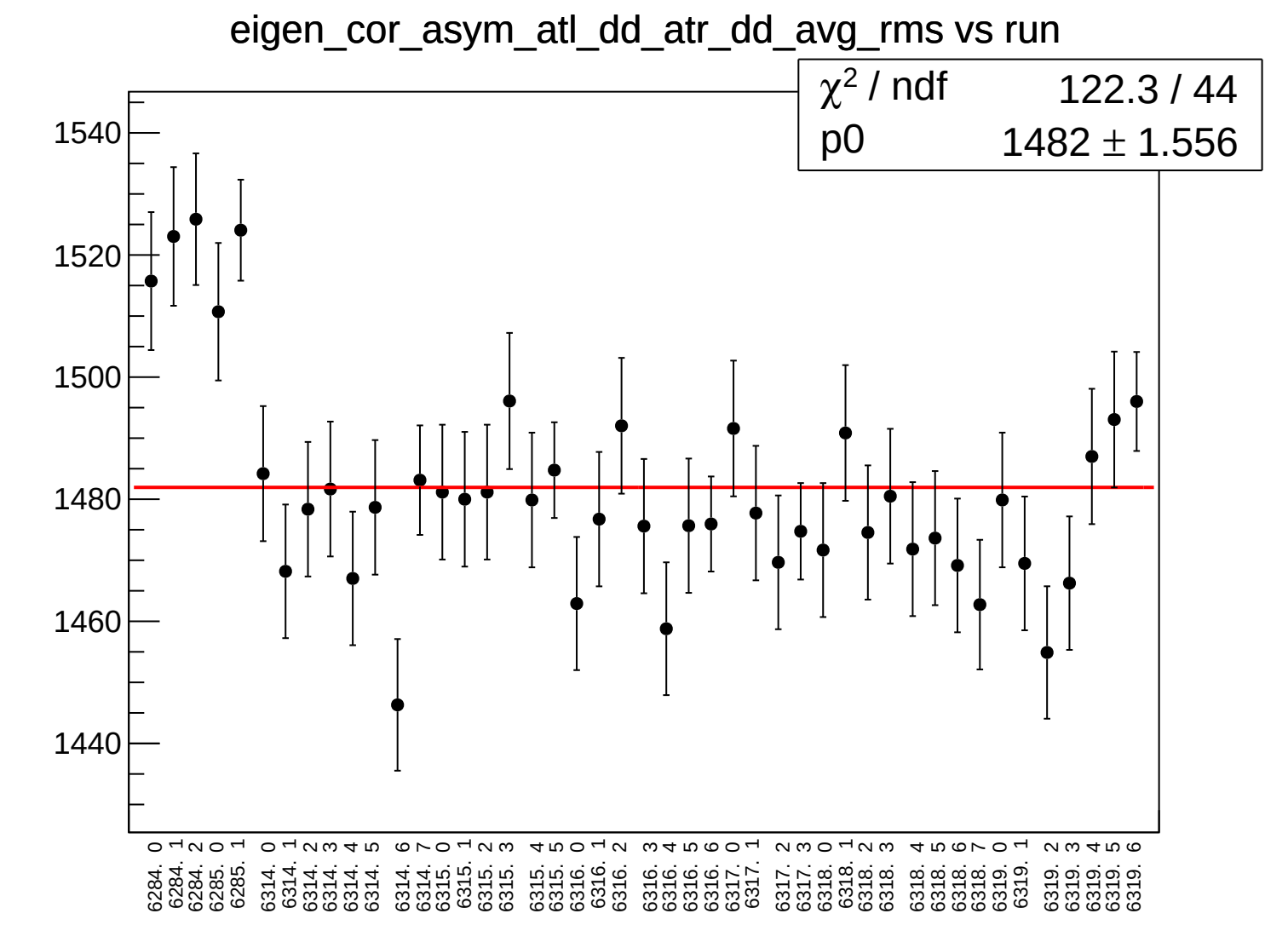
6319. 5
6319. 6


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001826
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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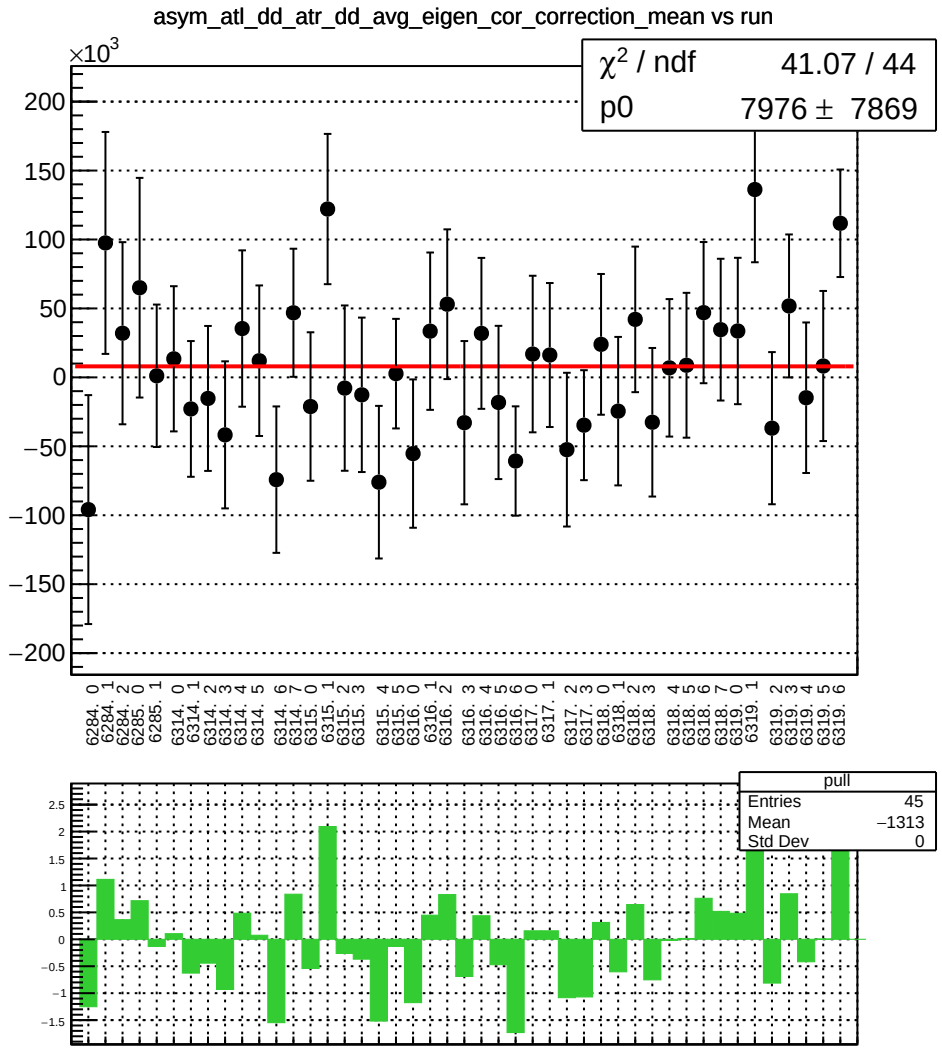
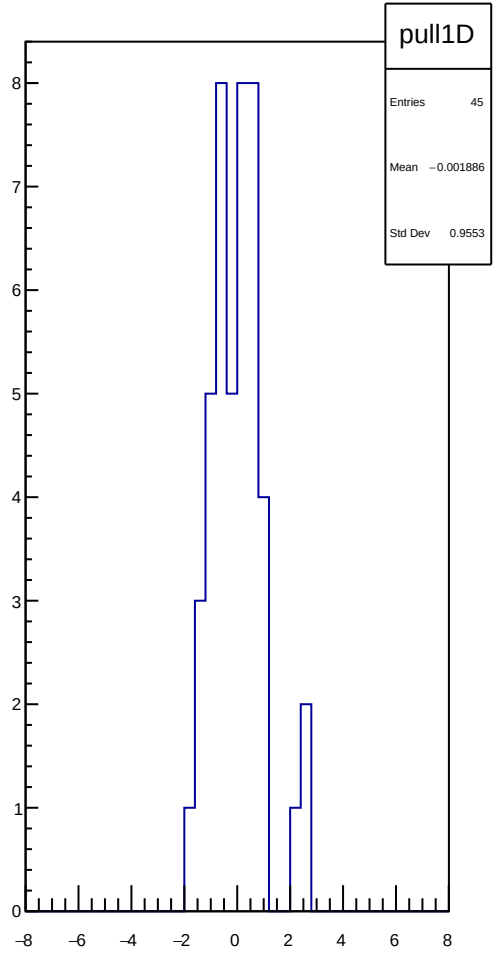
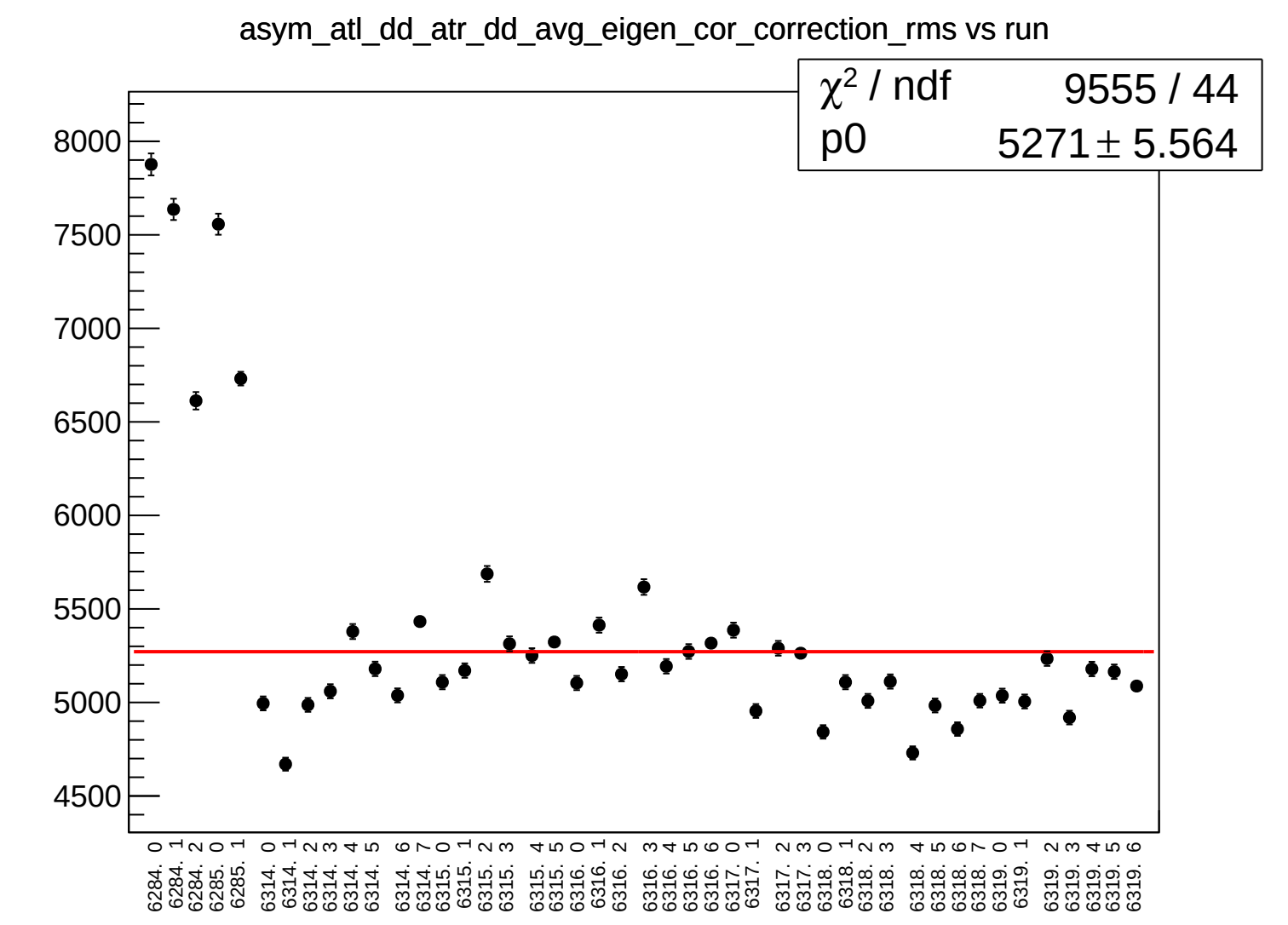
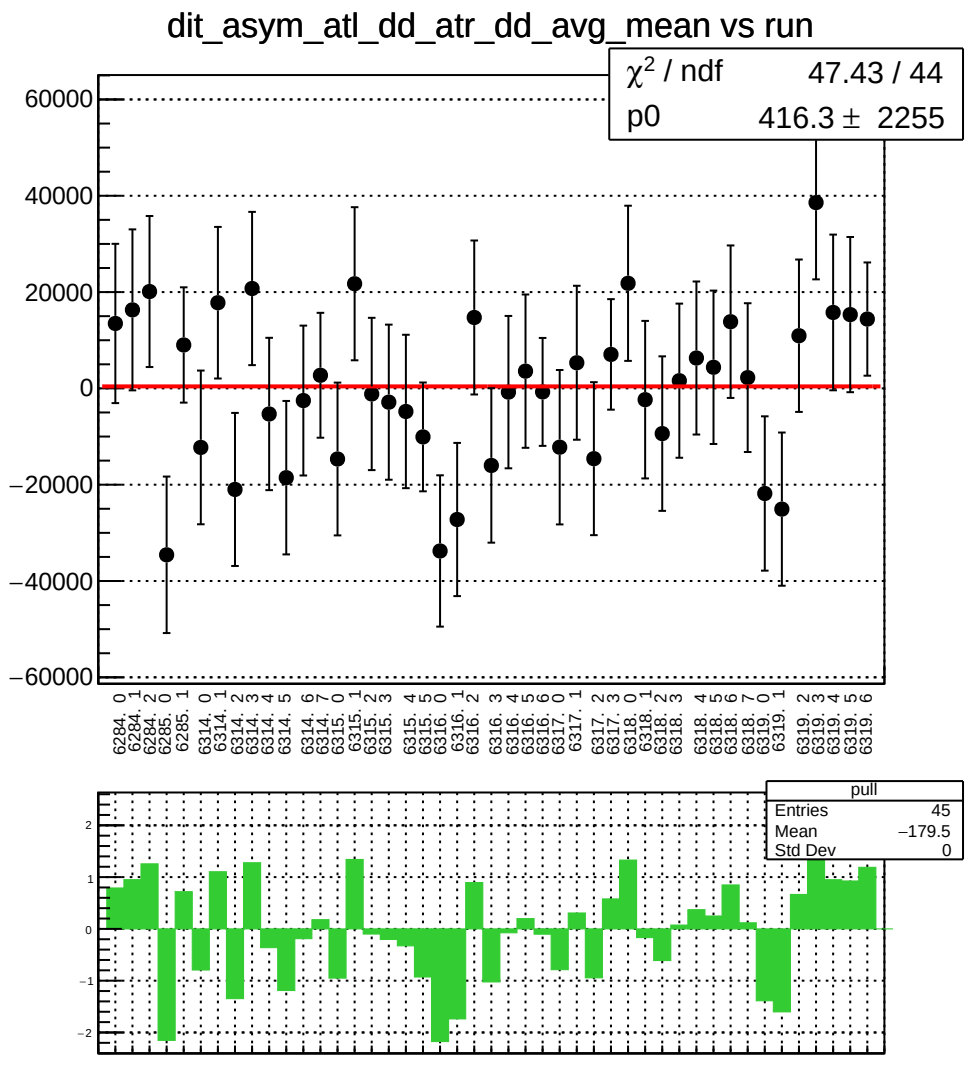
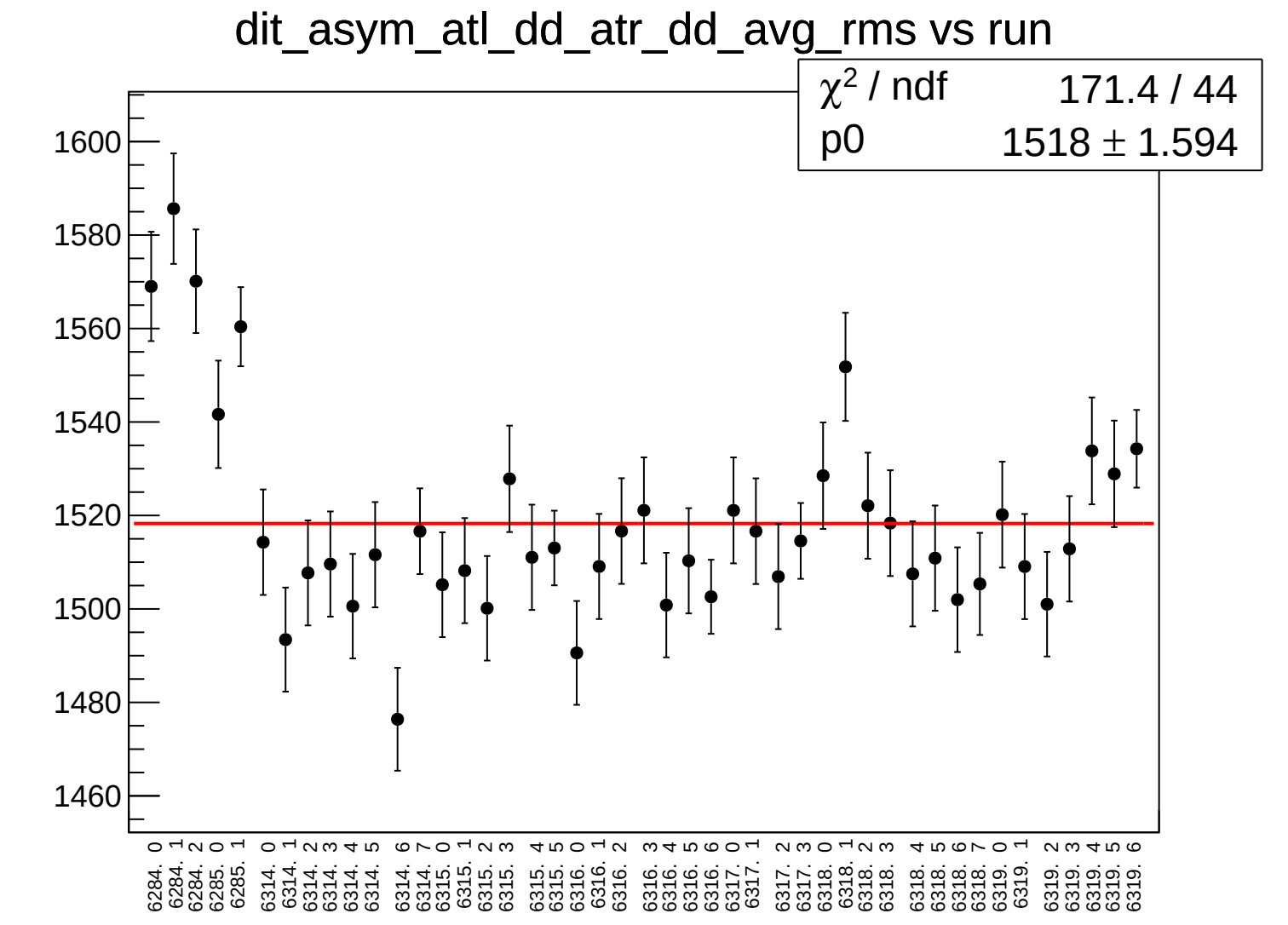
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001886
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 47.43 / 44
p0 416.3 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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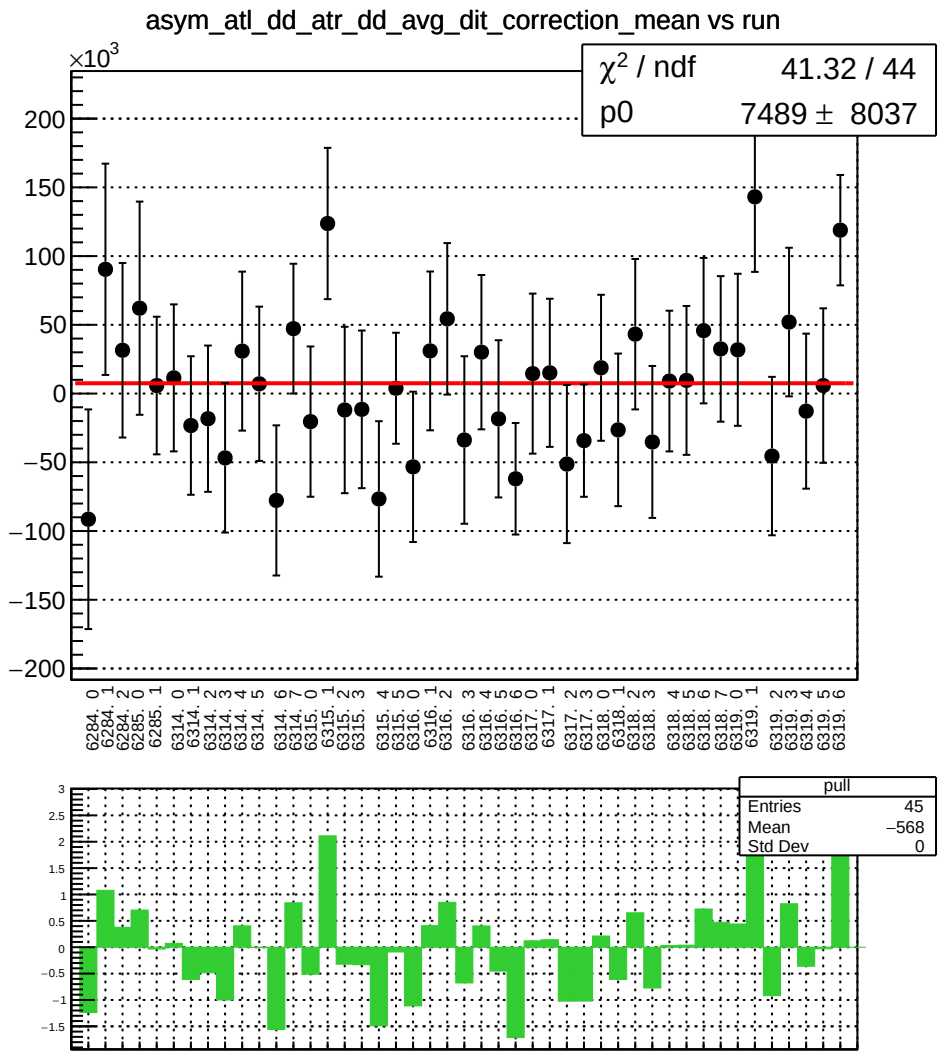
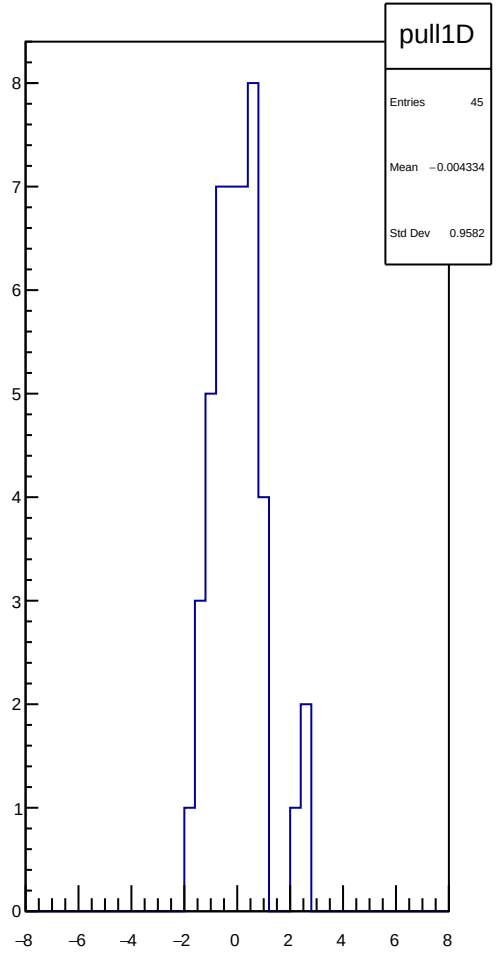
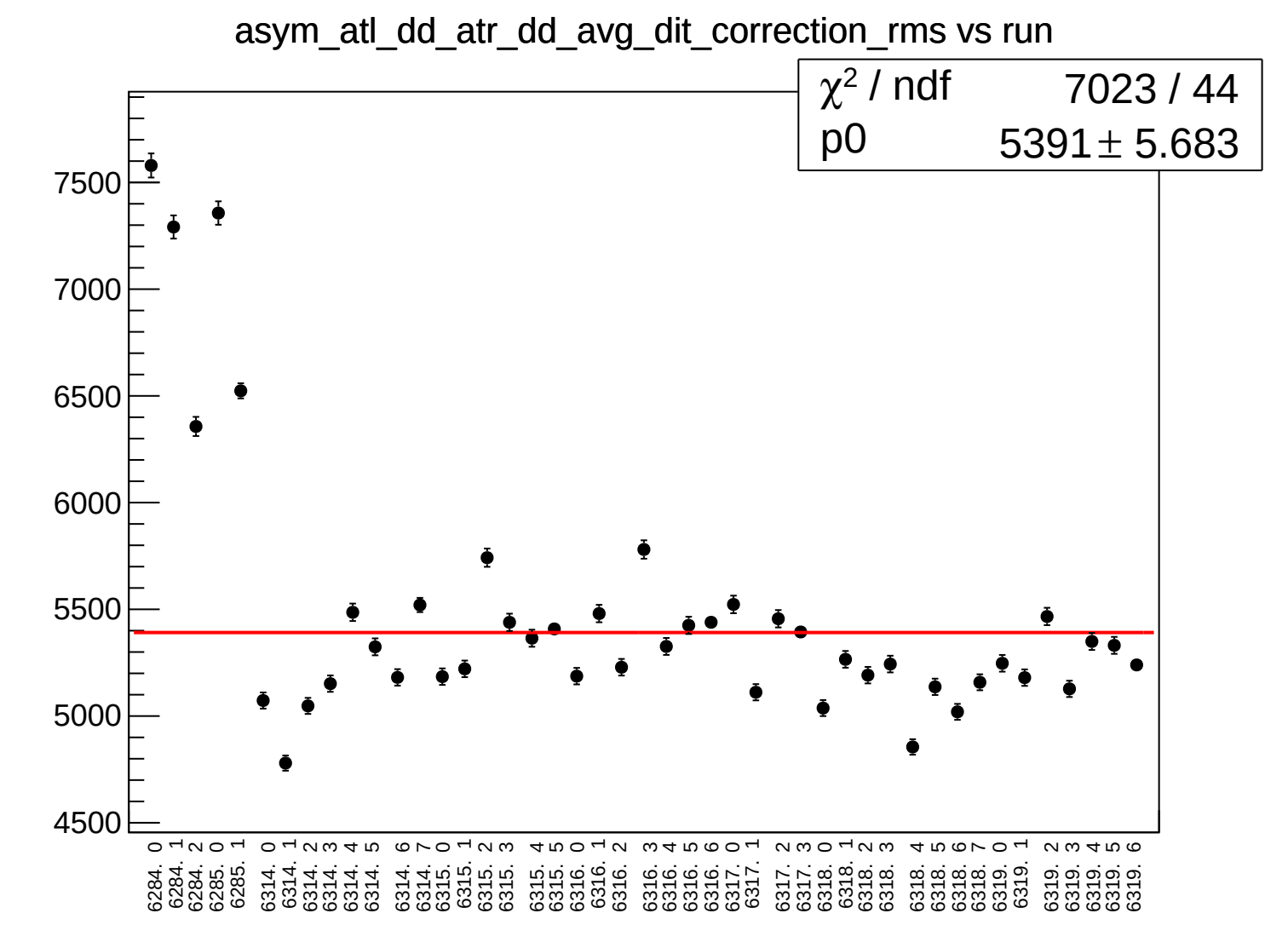
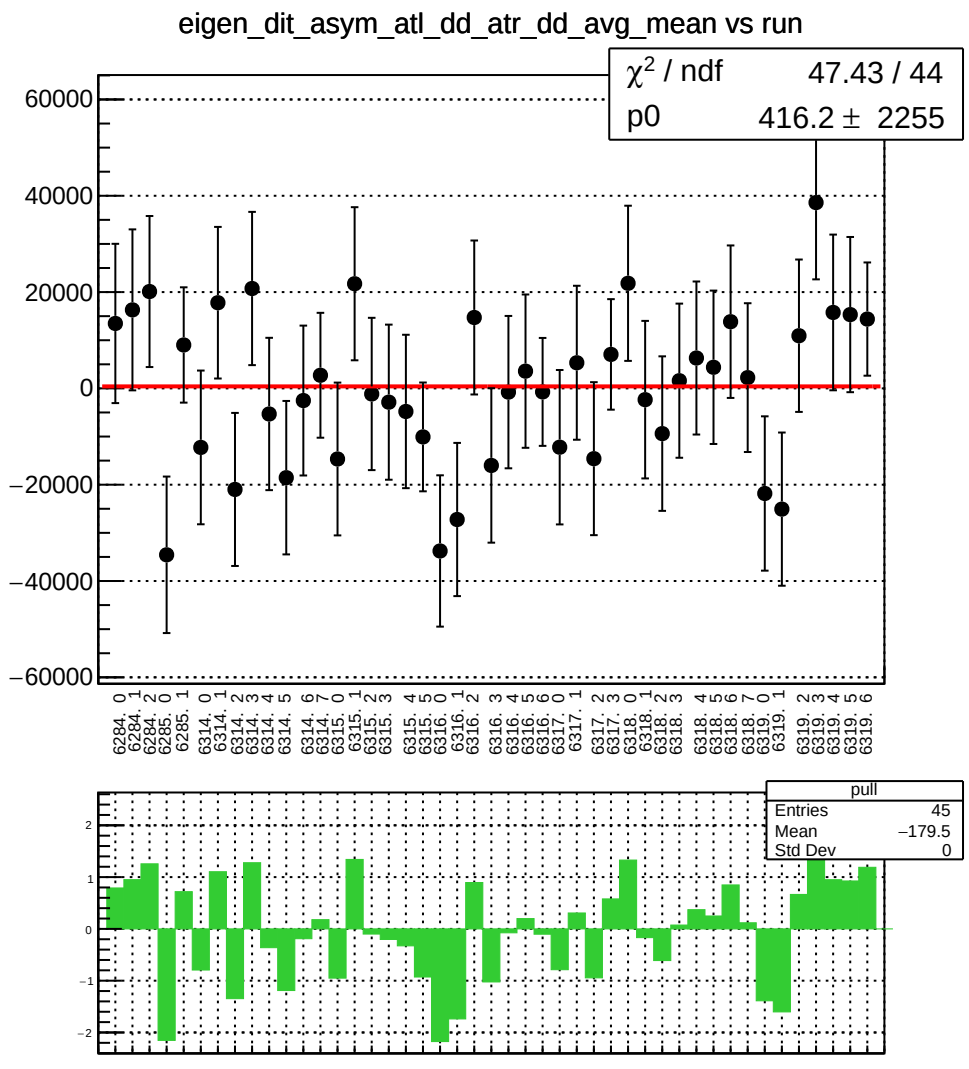
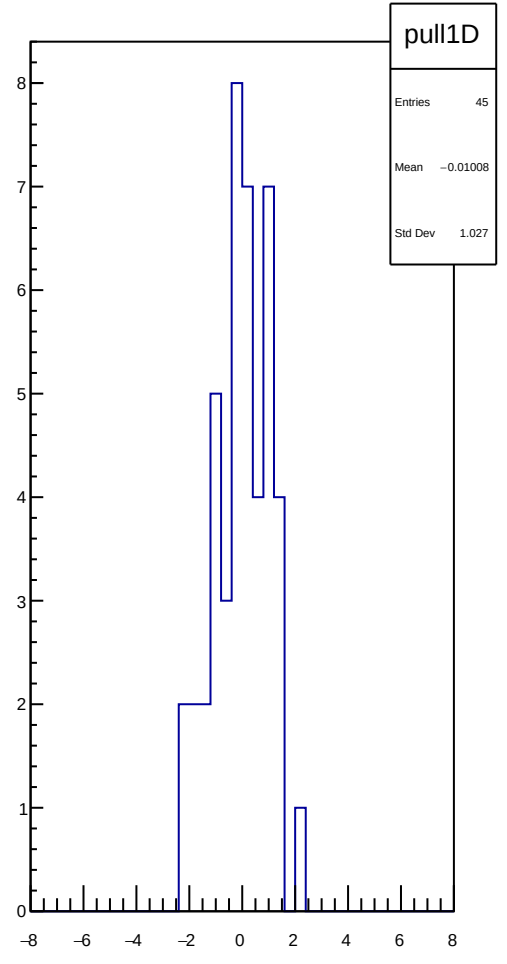
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 47.43 / 44
p0 416.2 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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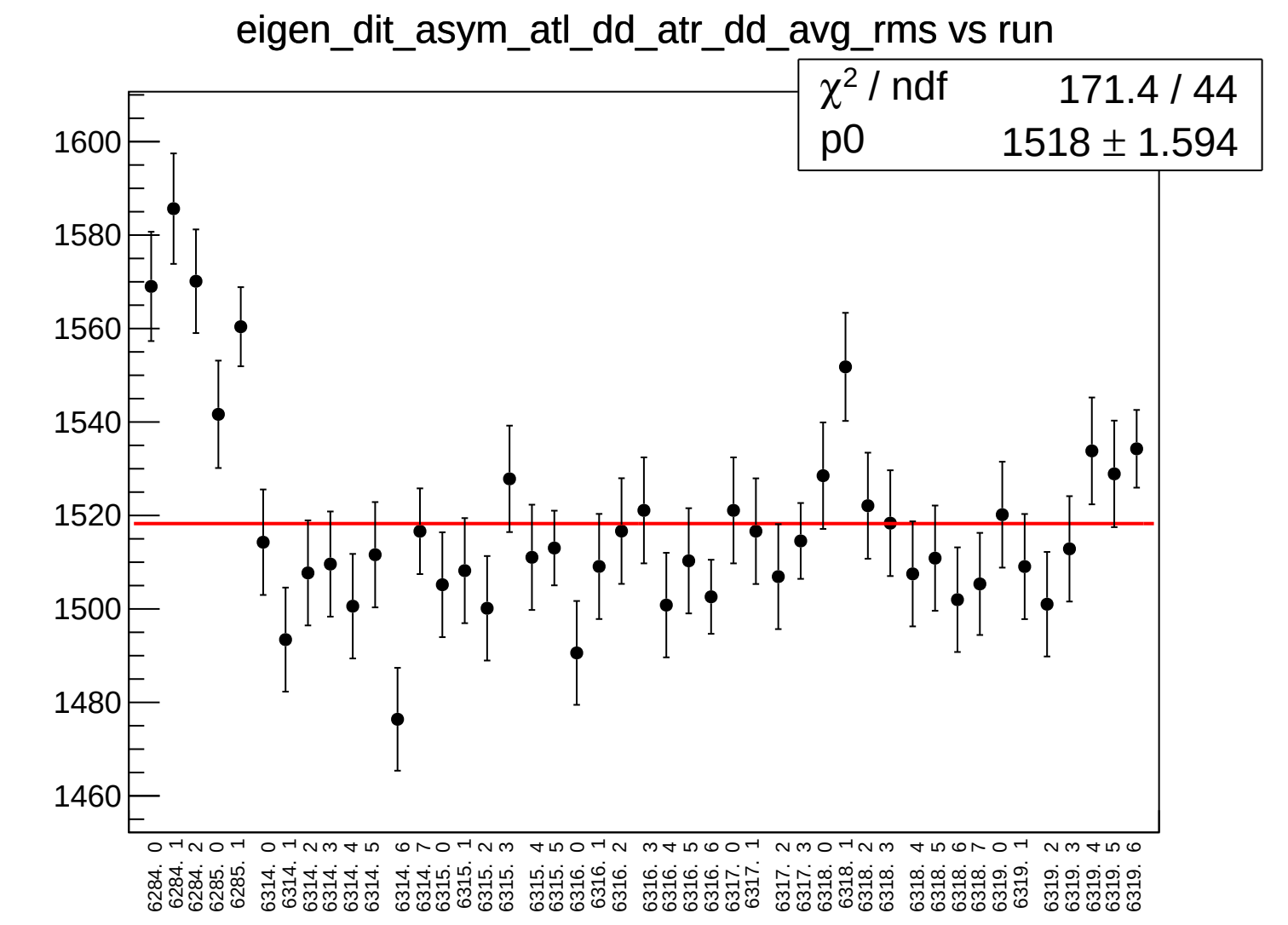
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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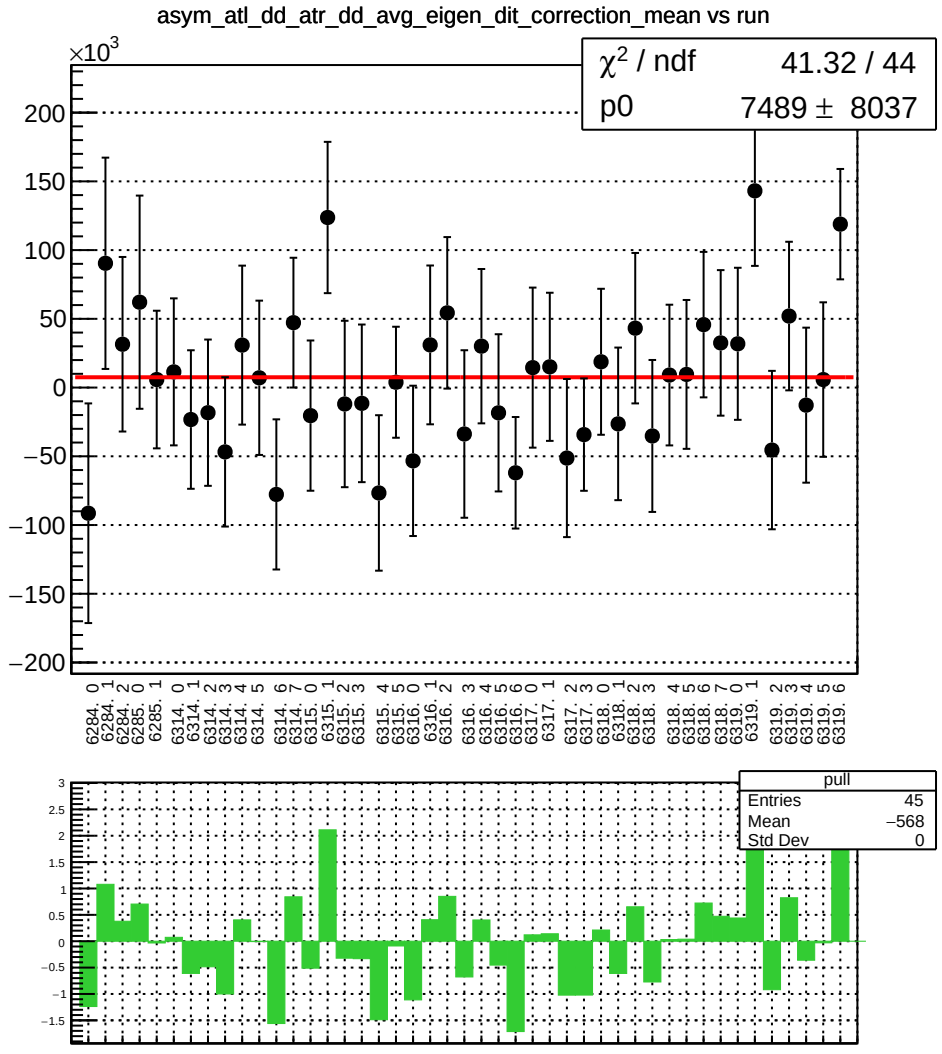
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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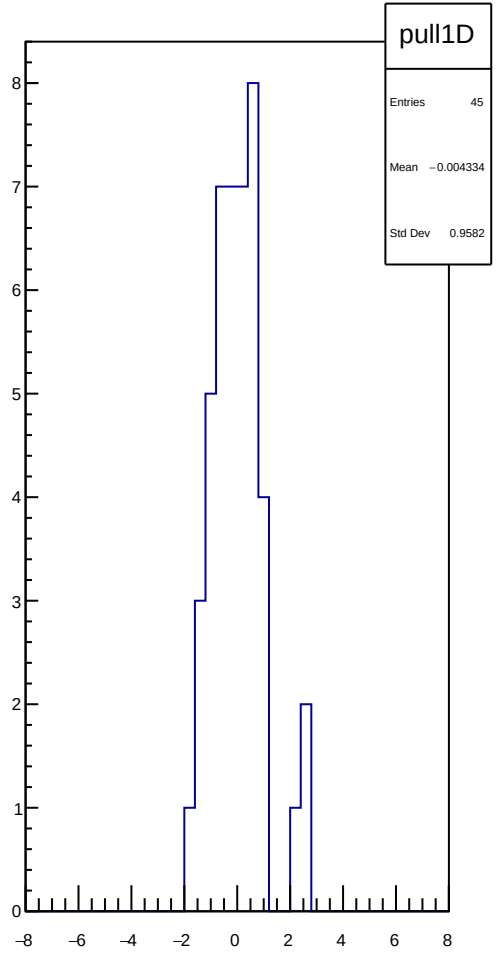
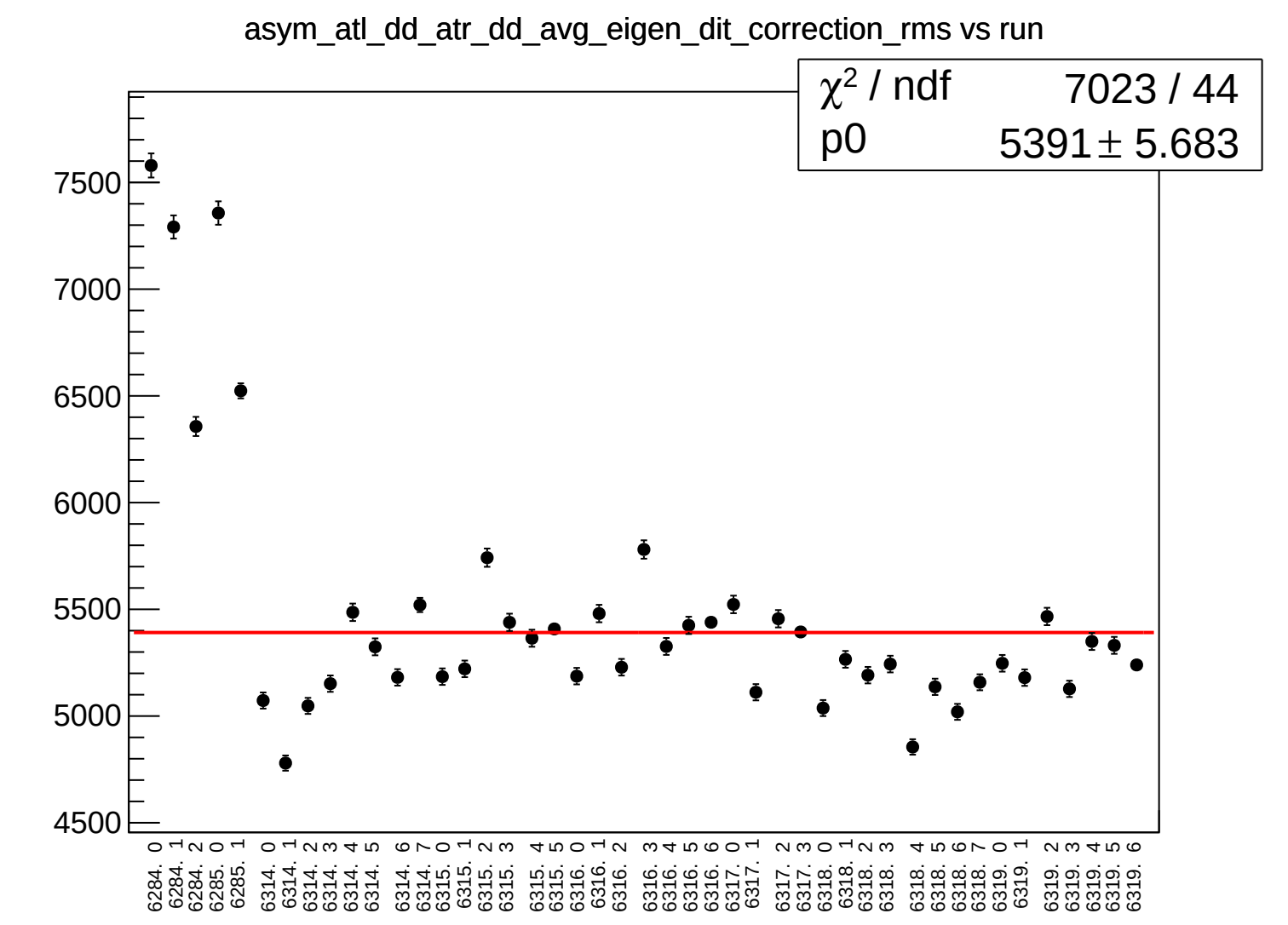
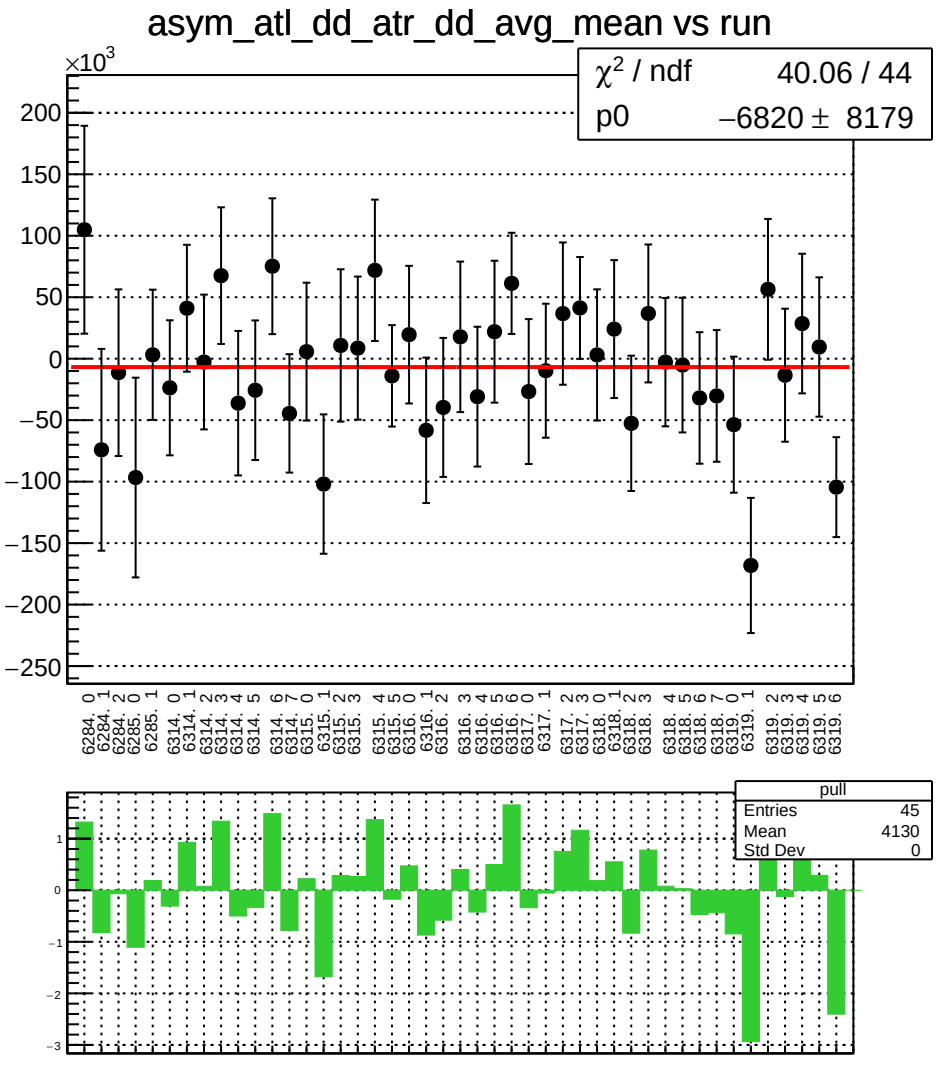
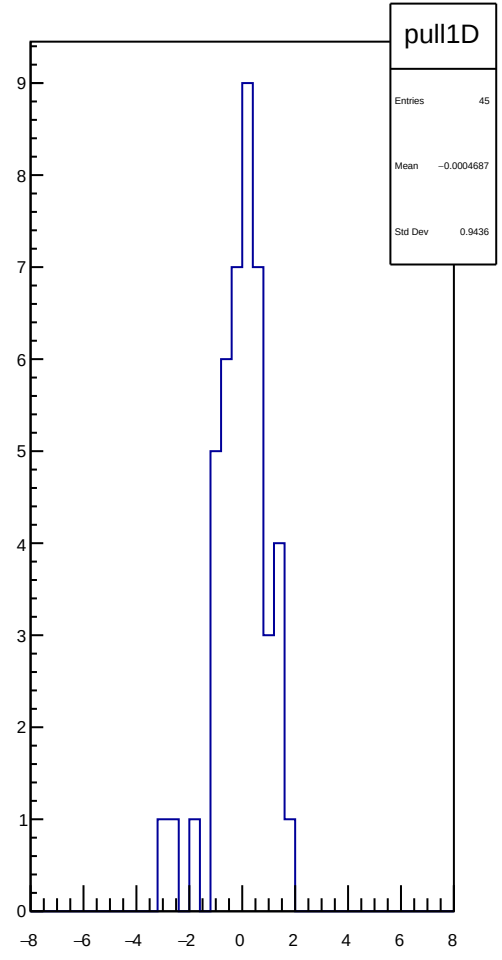
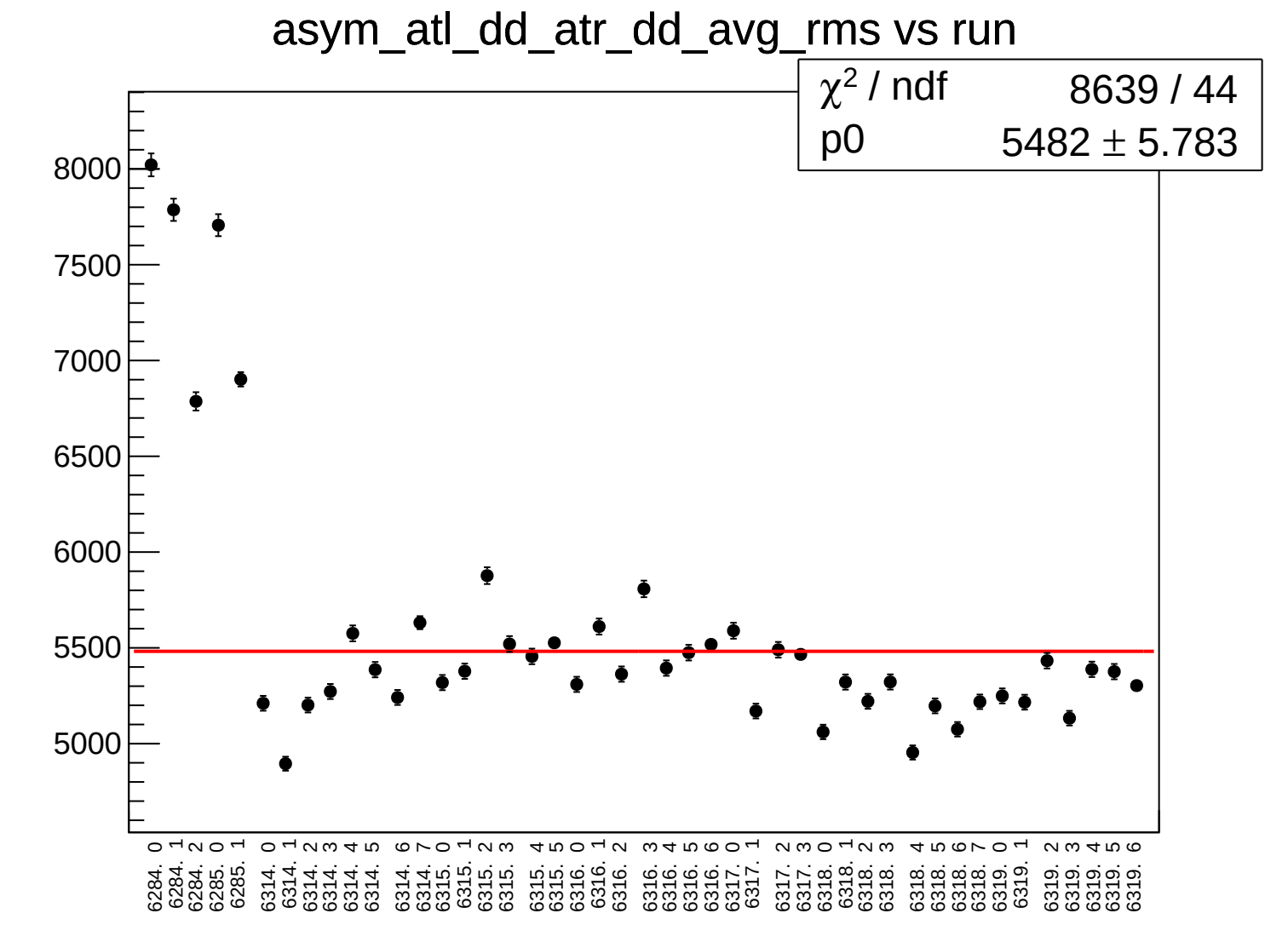
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 40.06 / 44
p0 −6820 ± 8179
200
150
100
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4130
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0004687
Std Dev 0.9436
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8639 / 44
p0 5482 ± 5.783
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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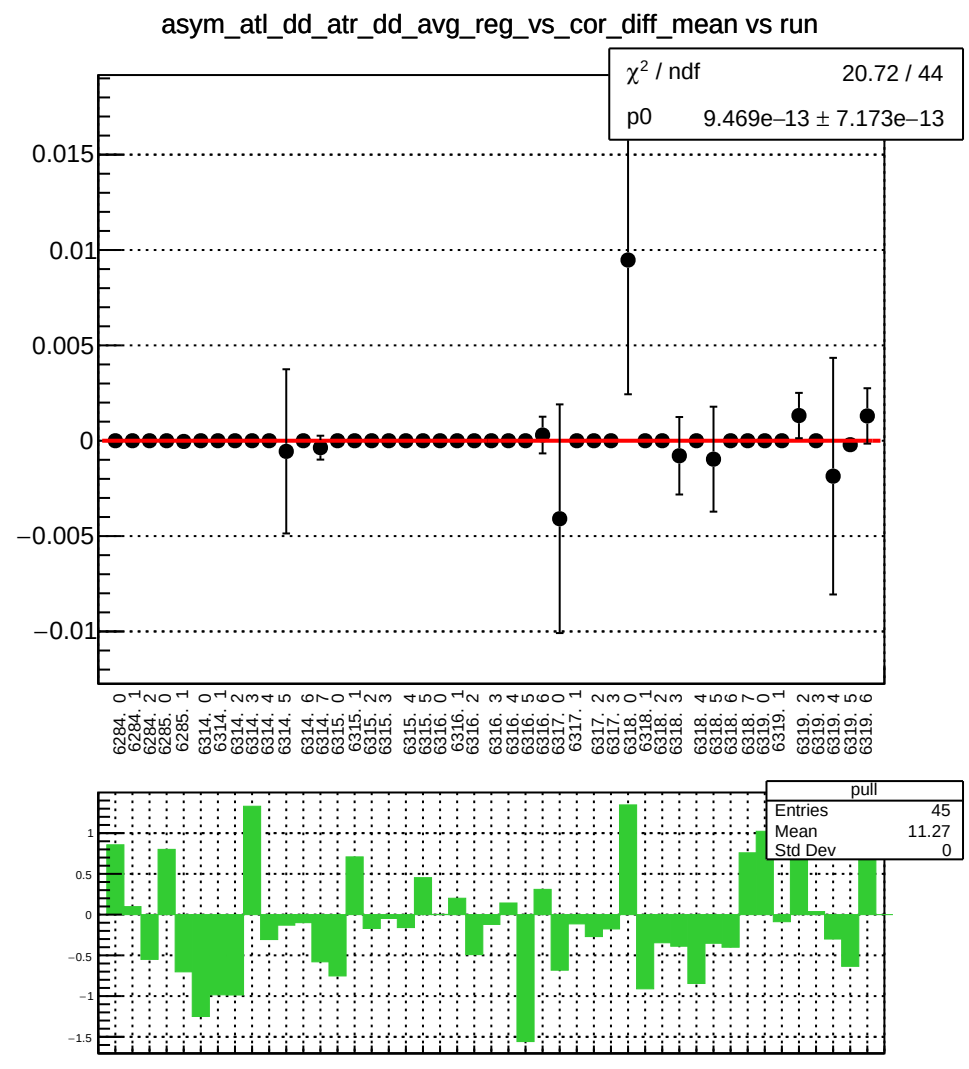
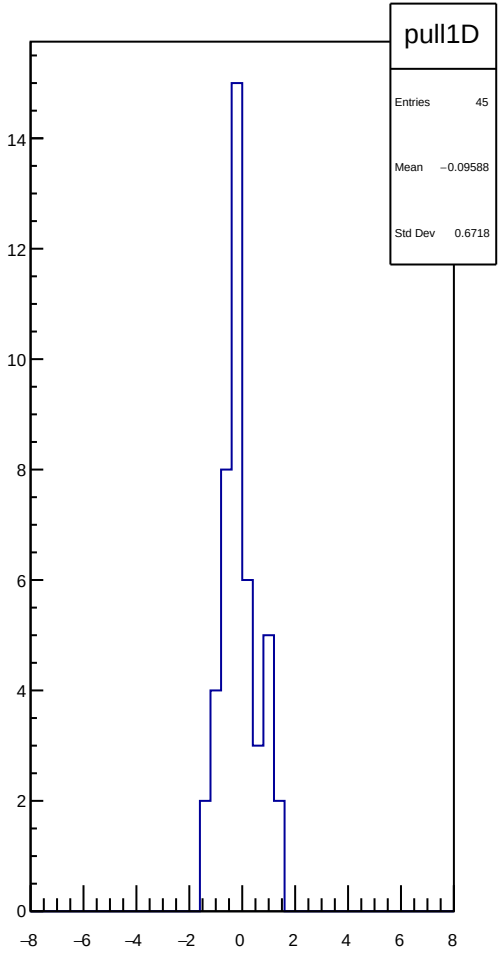
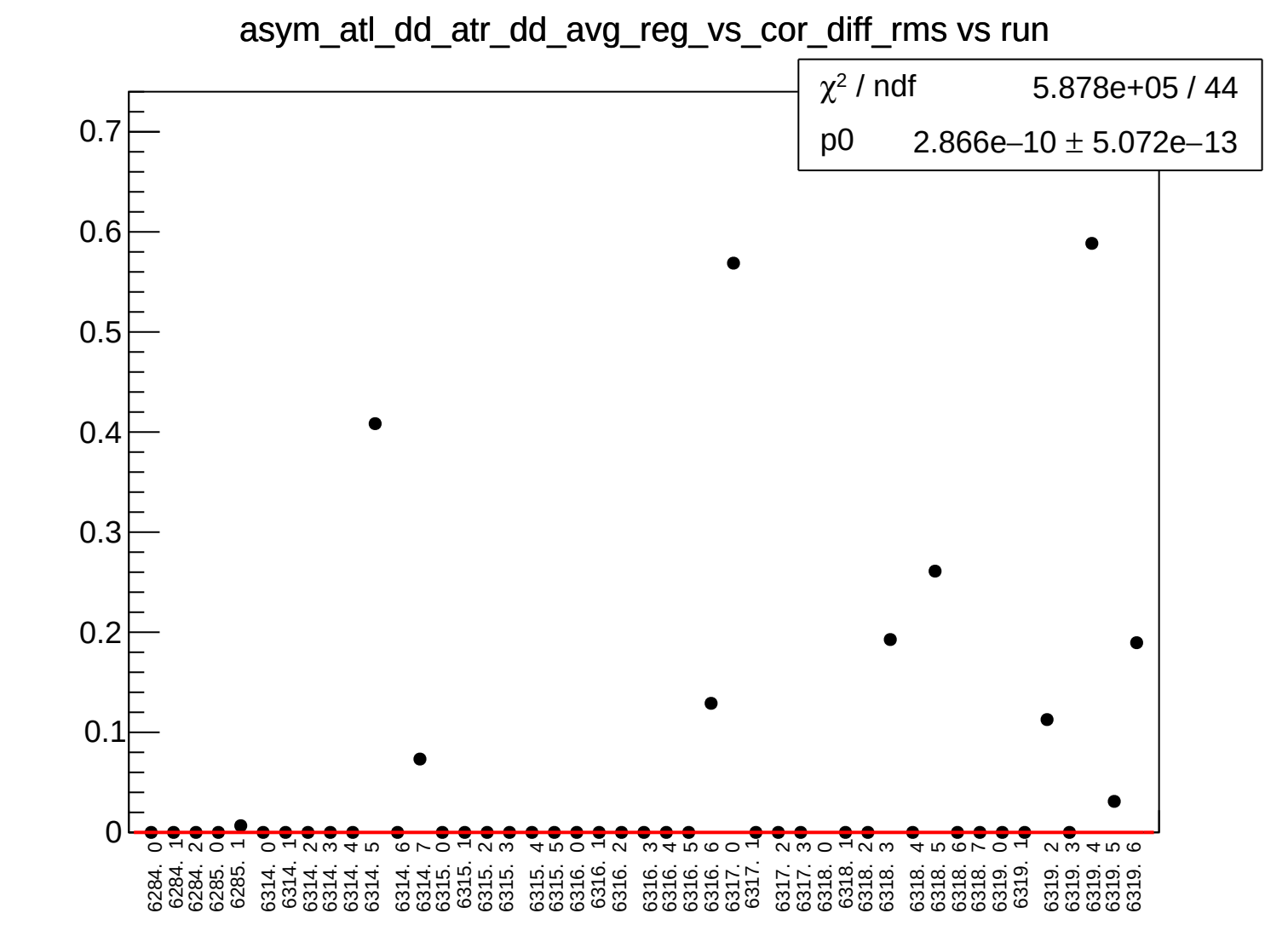
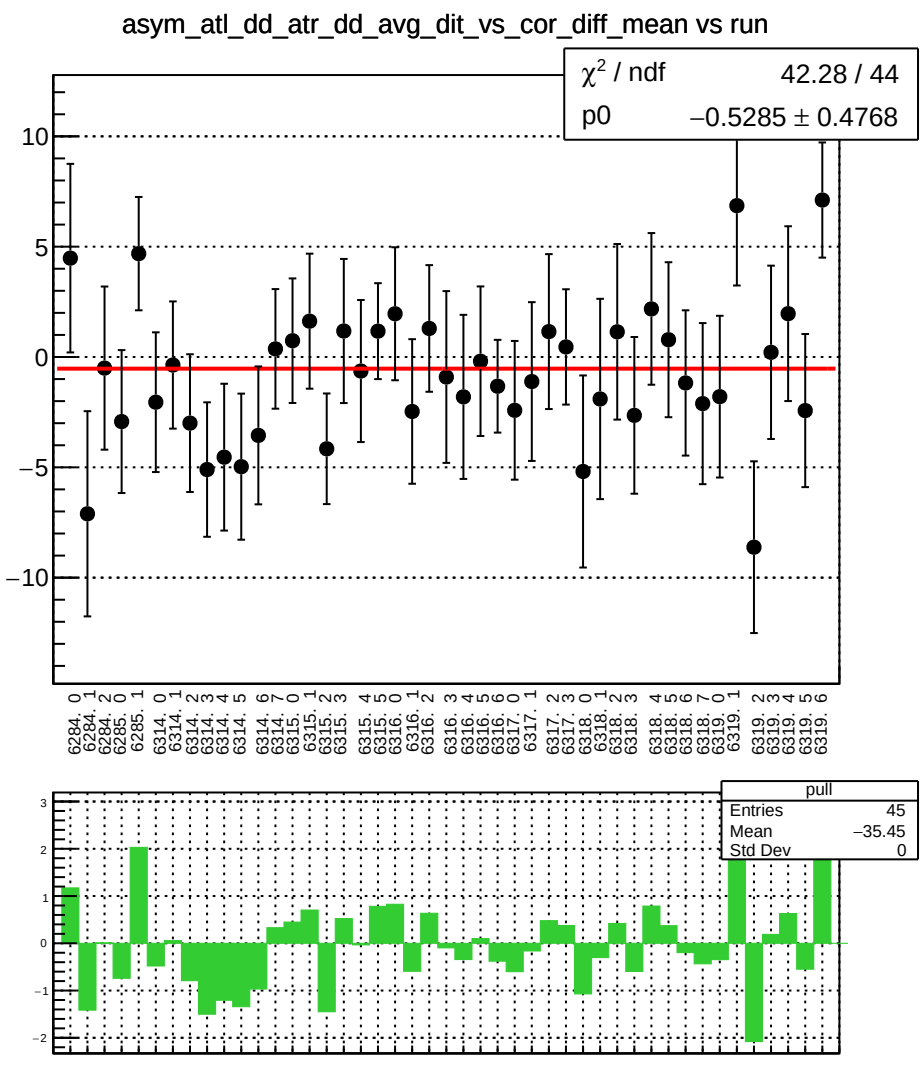
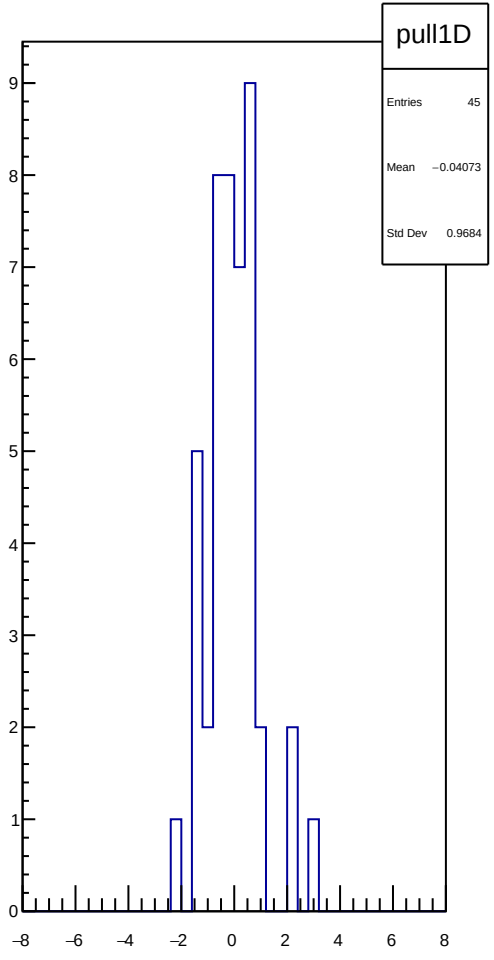
6319. 5
6319. 6

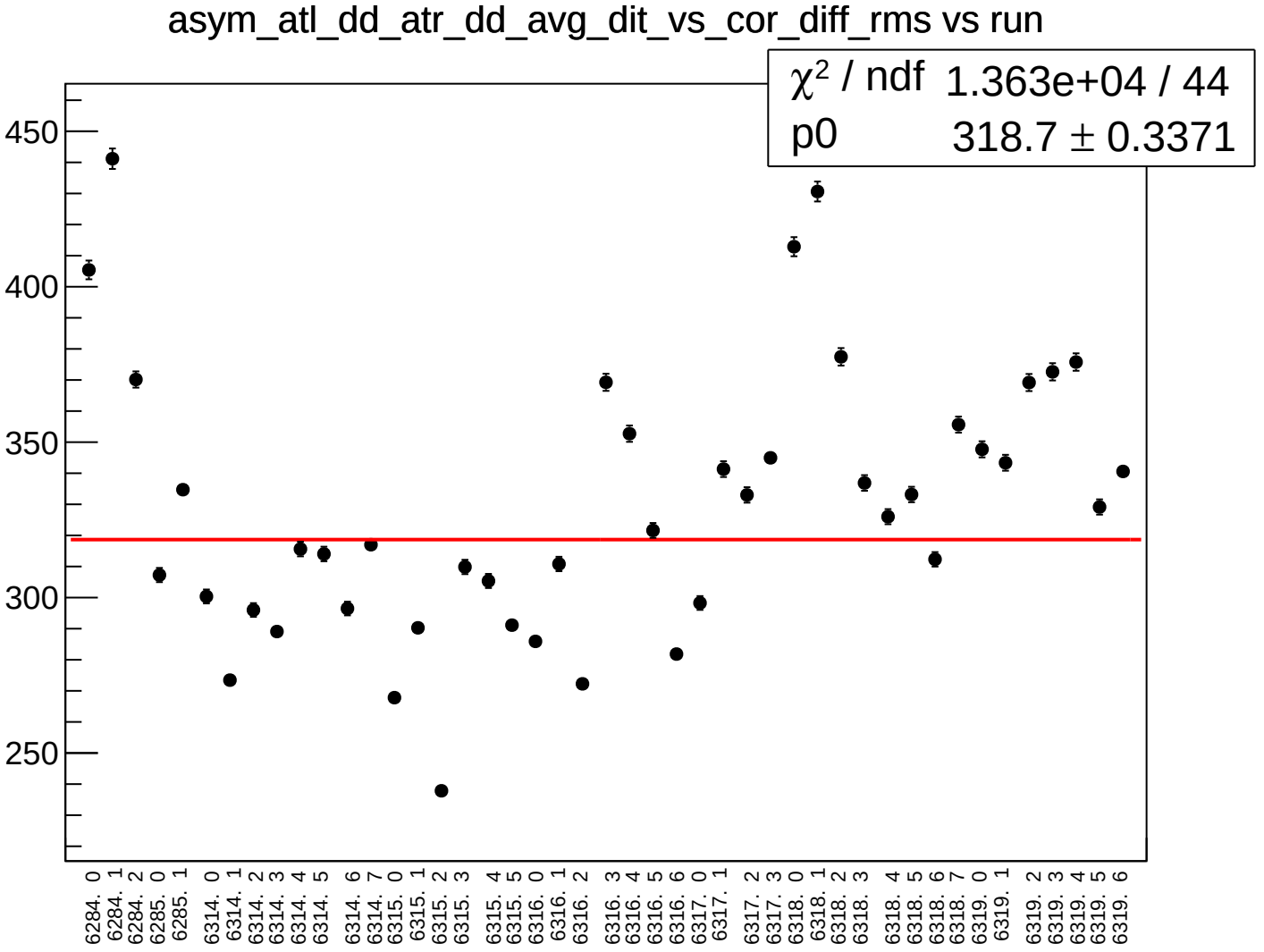

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.72 / 44
p0 9.469e−13 ± 7.173e−13
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.09588
Std Dev 0.6718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.878e+05 / 44
p0 2.866e−10 ± 5.072e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
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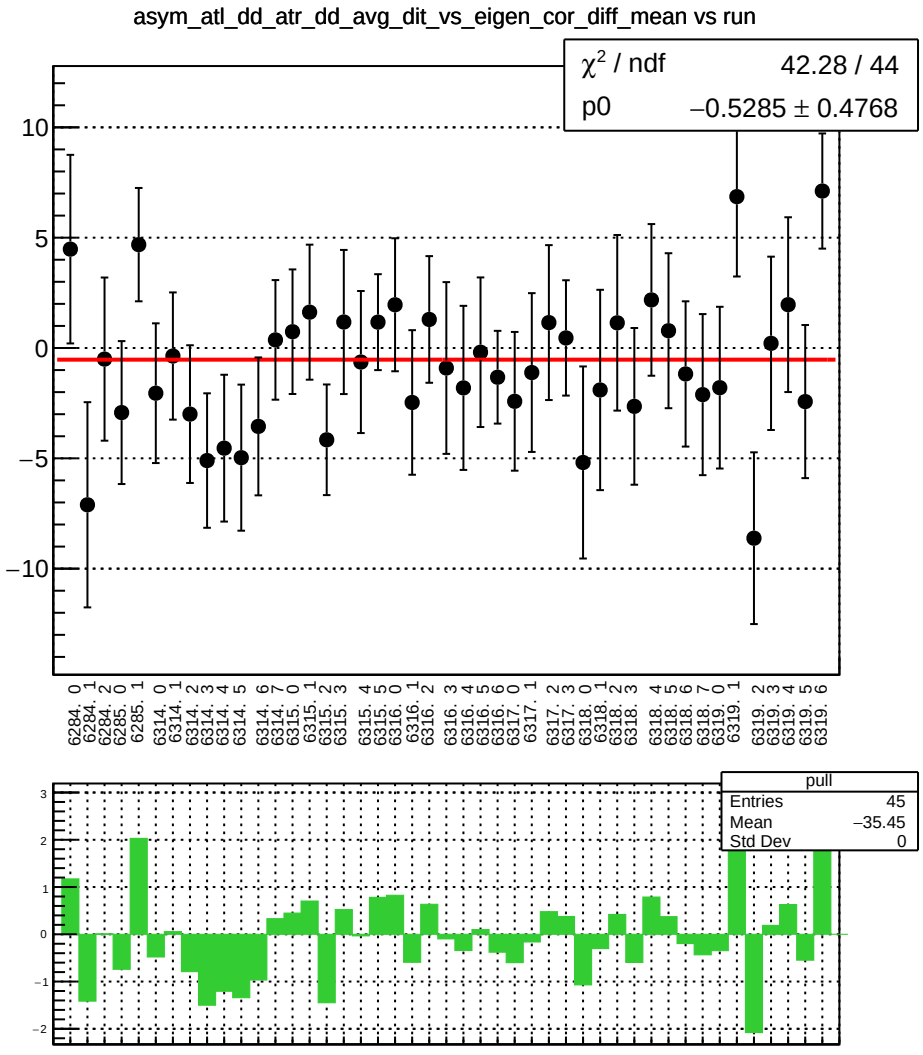
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
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−8
−6
−4
−2
0
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6
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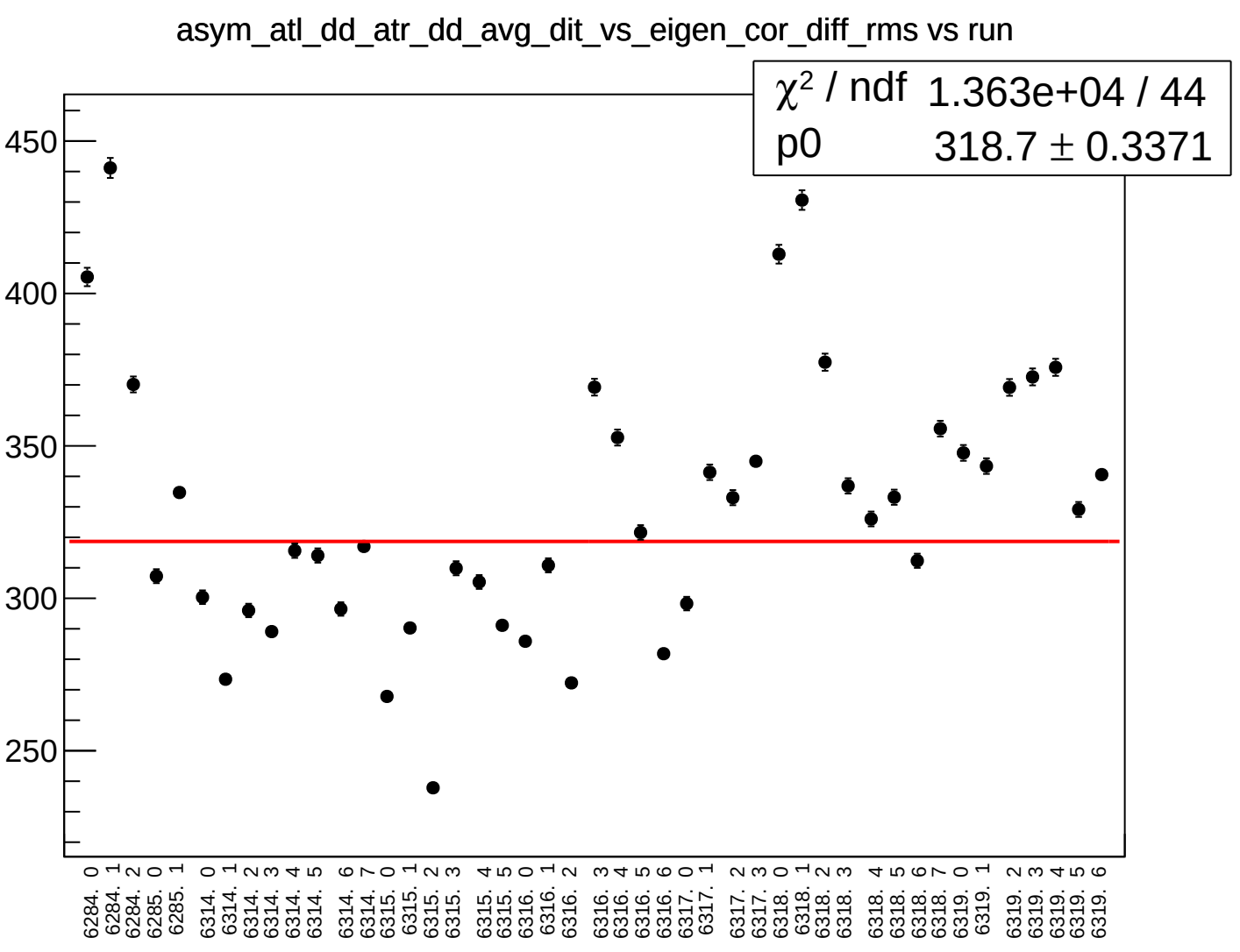
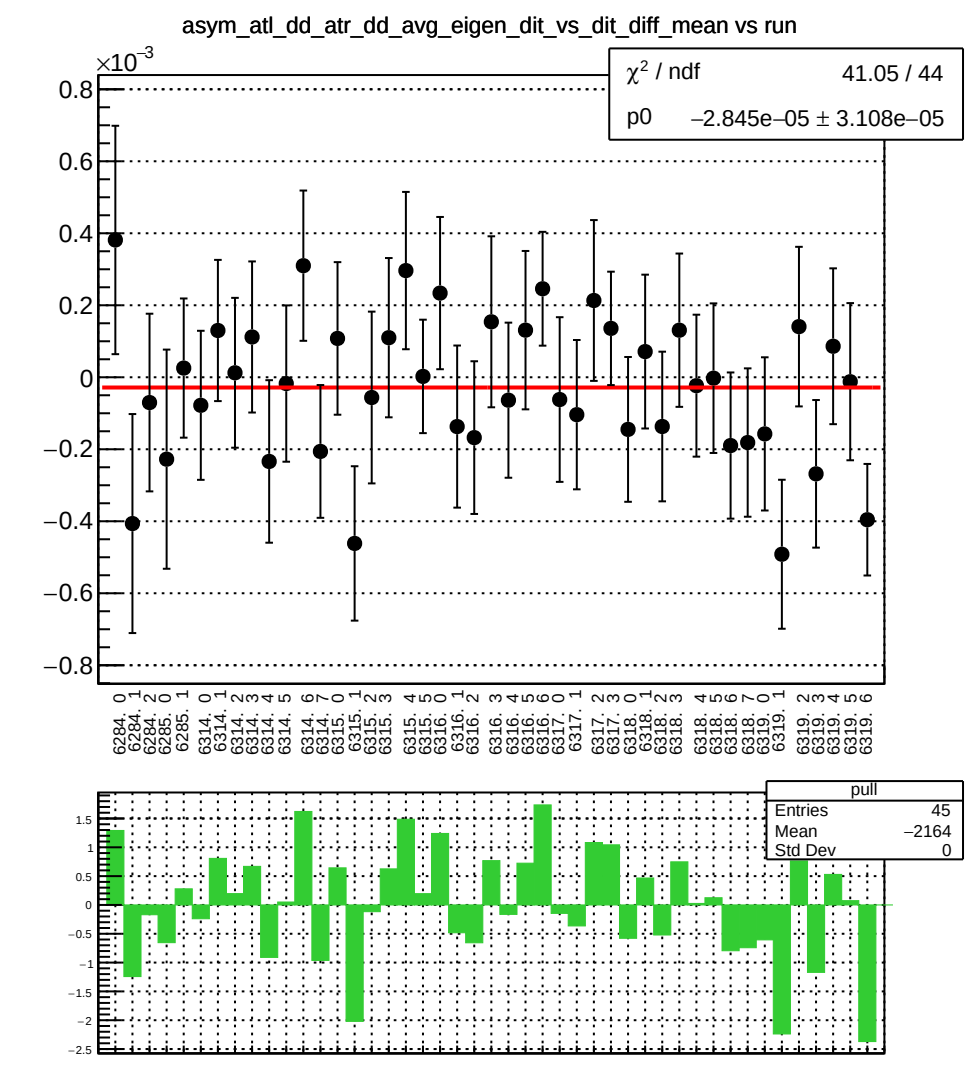
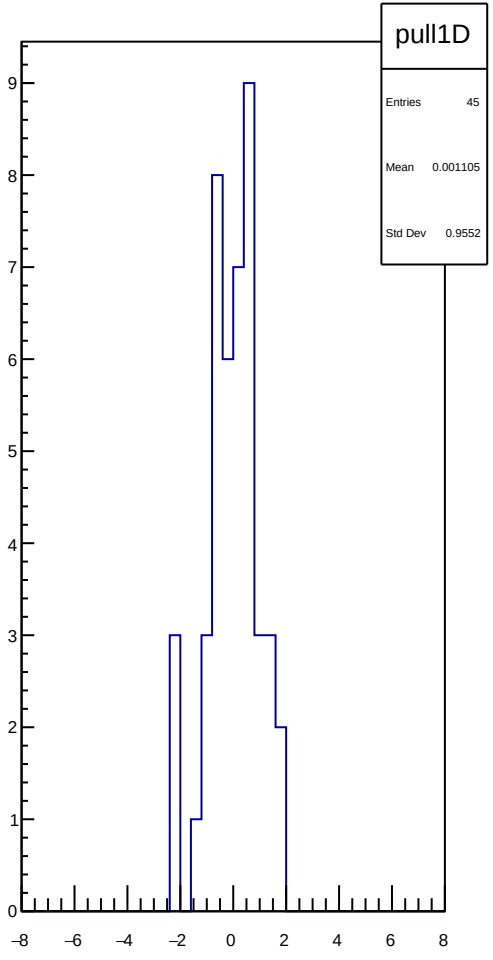
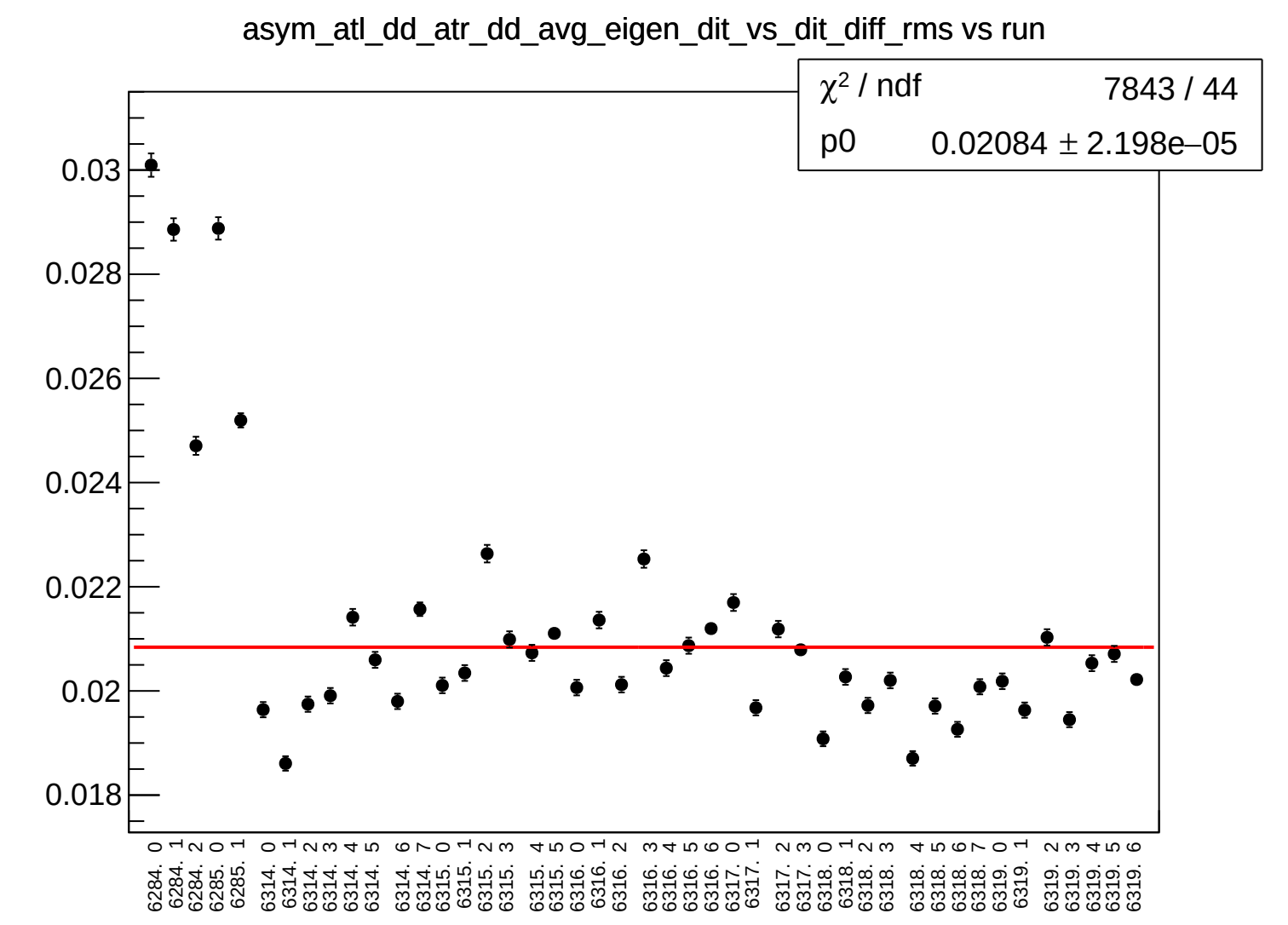
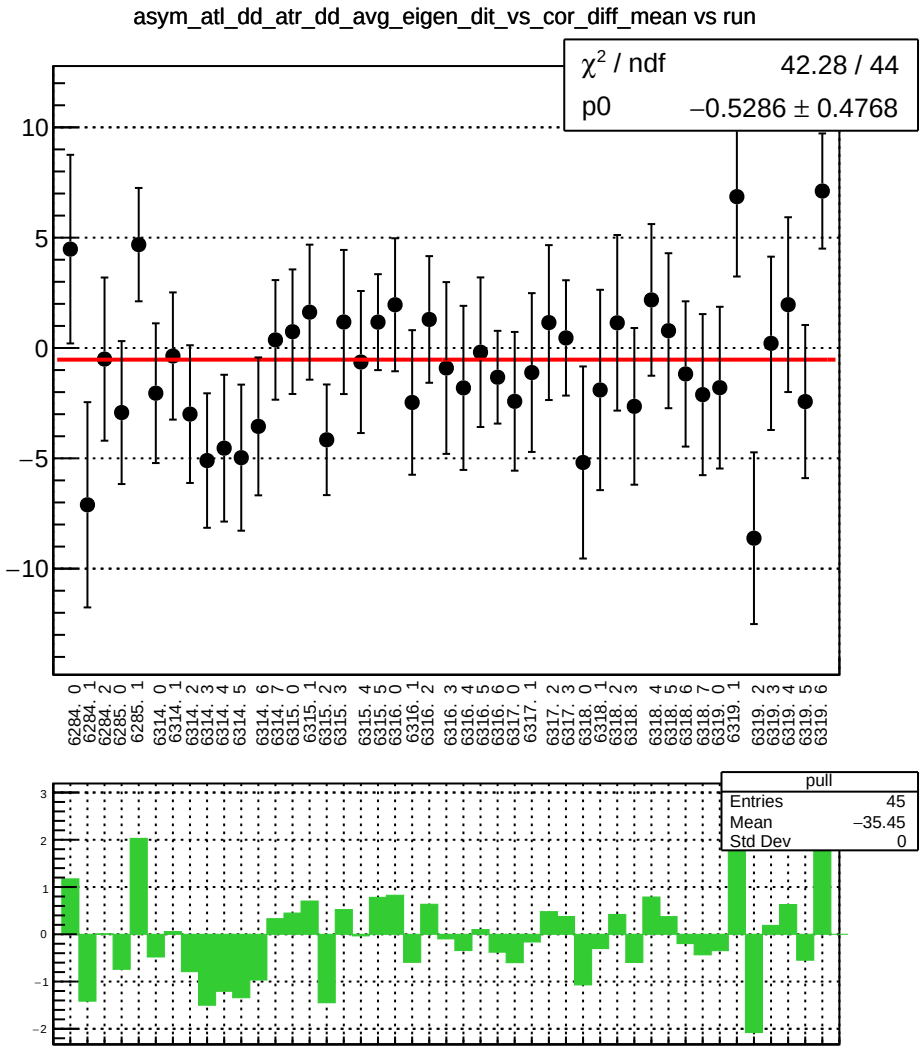
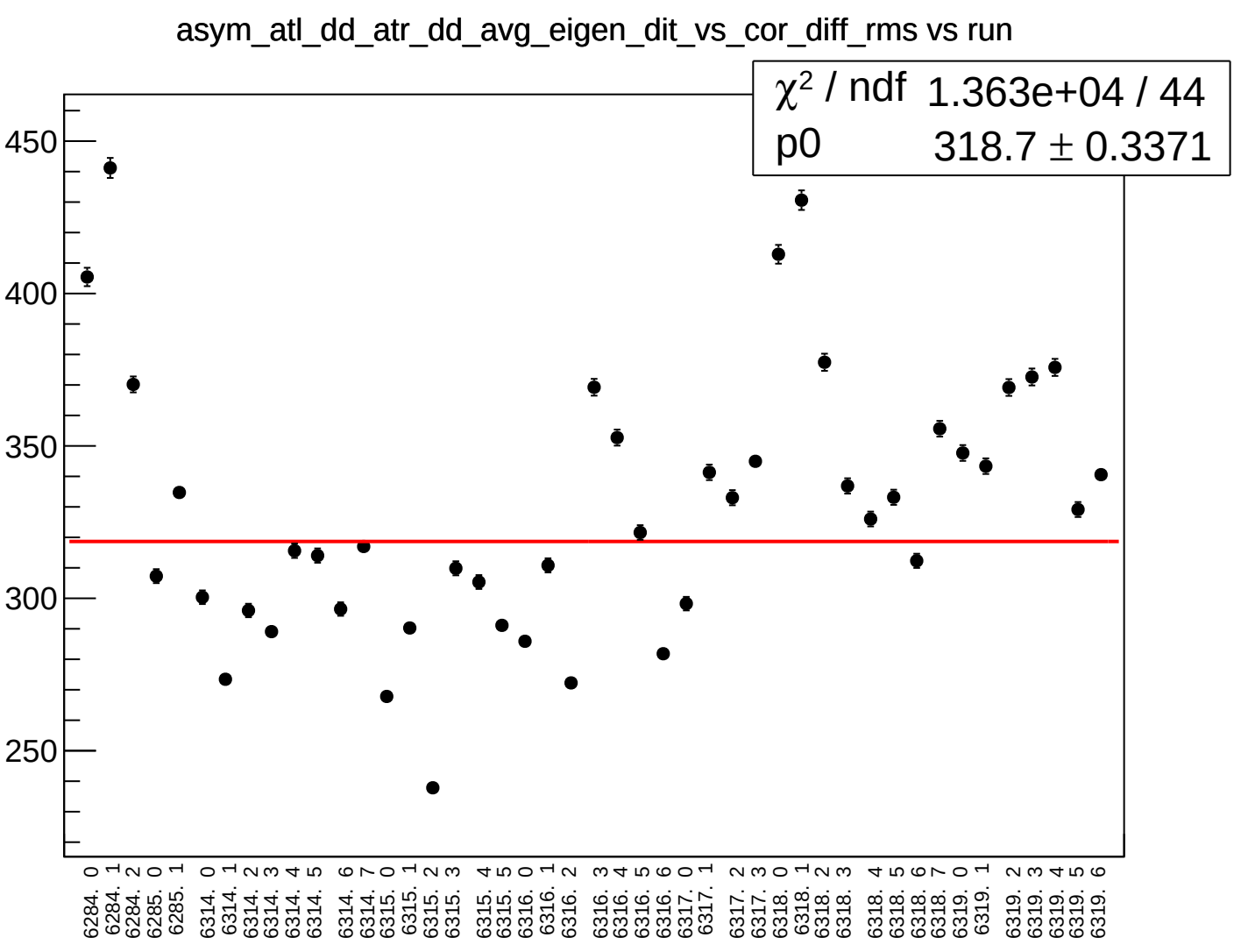

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

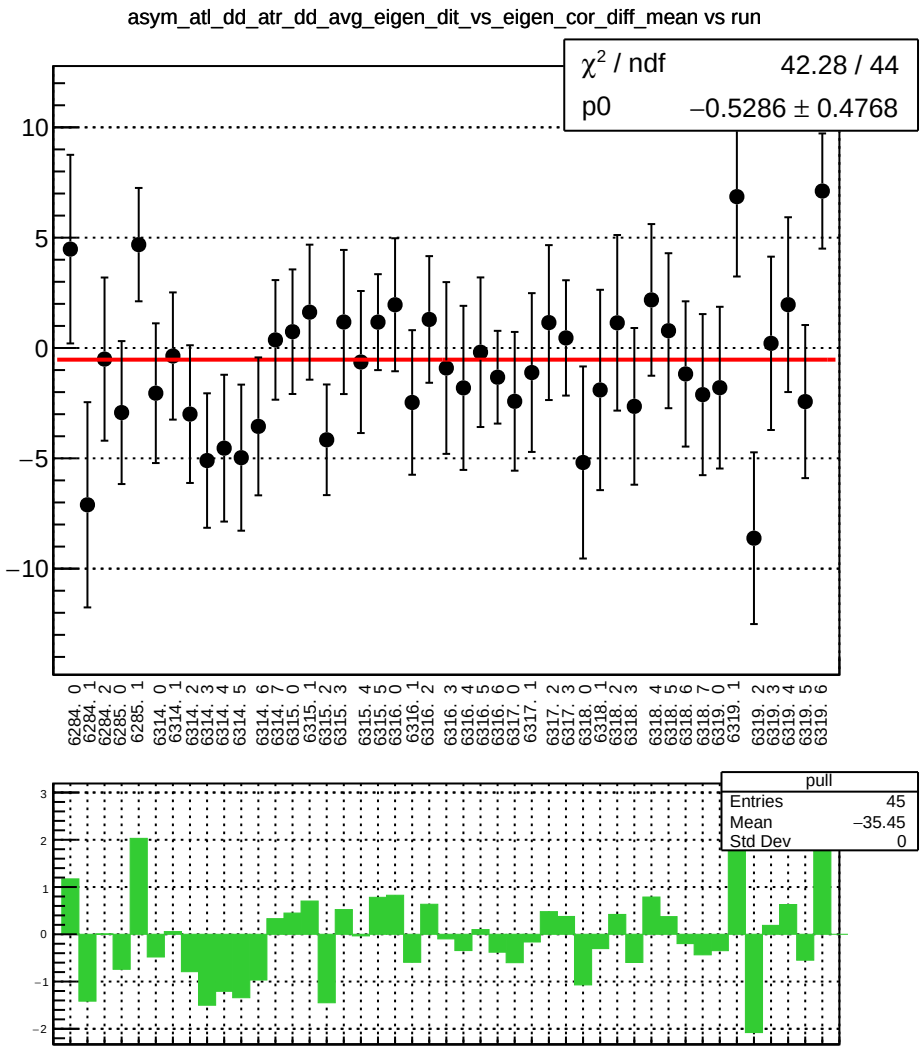

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.05 / 44
p0 −2.845e−05 ± 3.108e−05
pull
Entries 45
Mean −2164
Std Dev 0

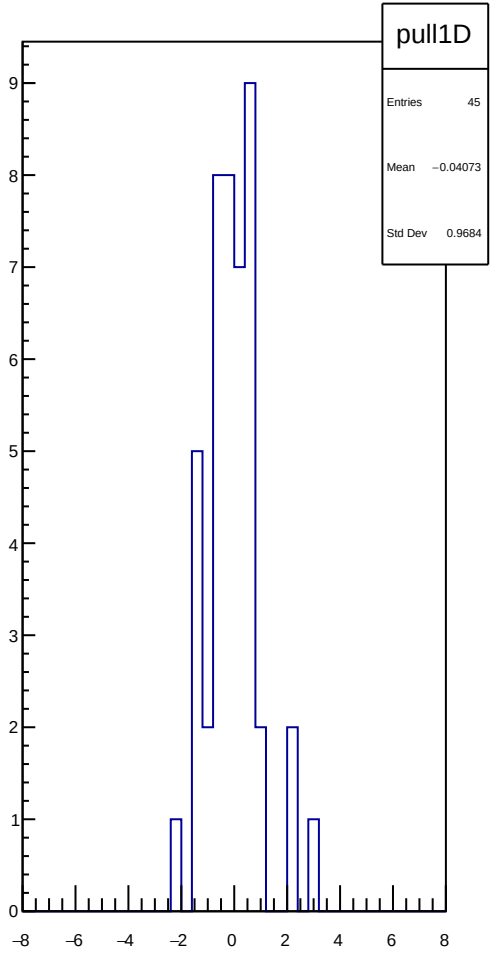

pull1D
Entries 45
Mean 0.001105
Std Dev 0.9552

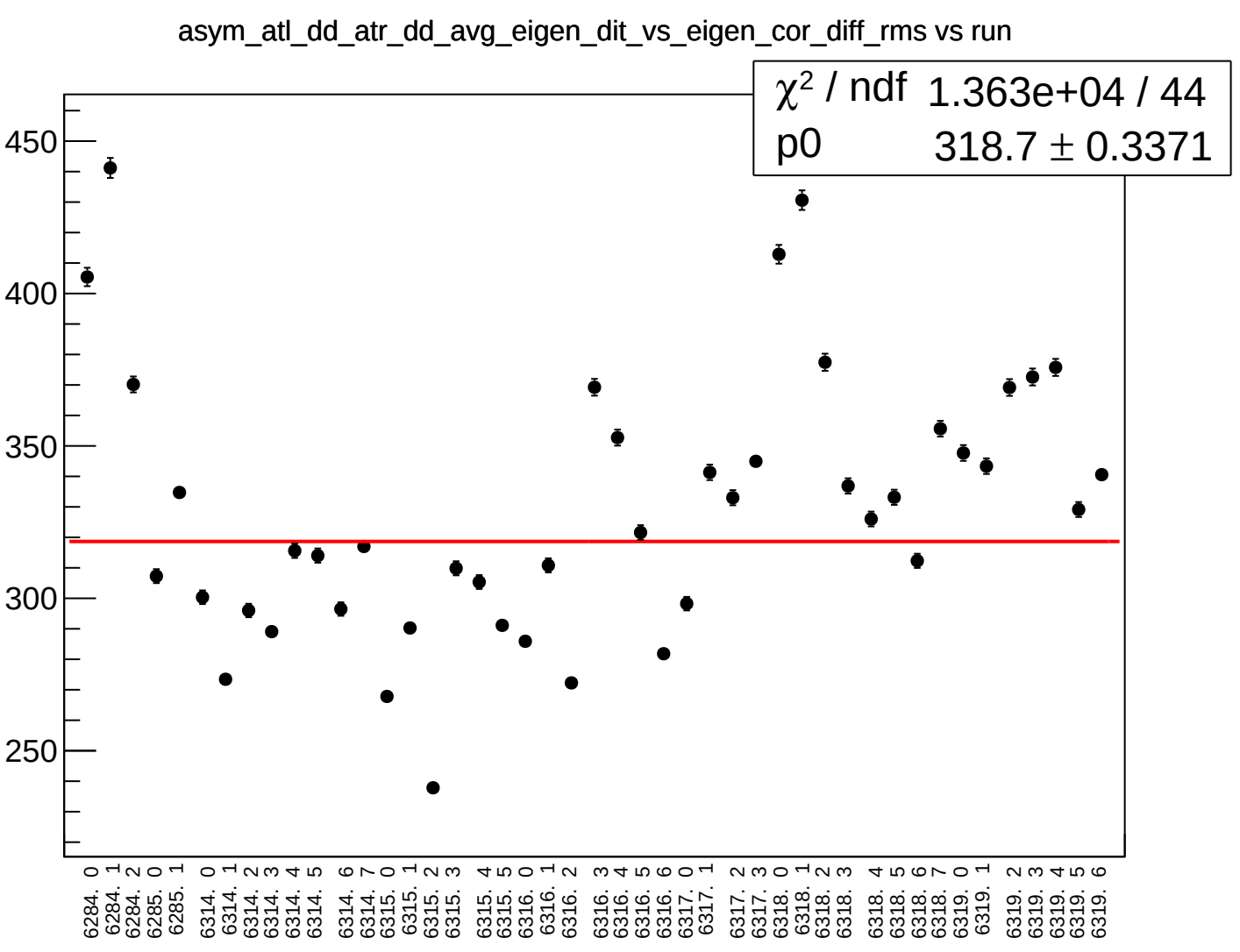

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7843 / 44
p0 0.02084 ± 2.198e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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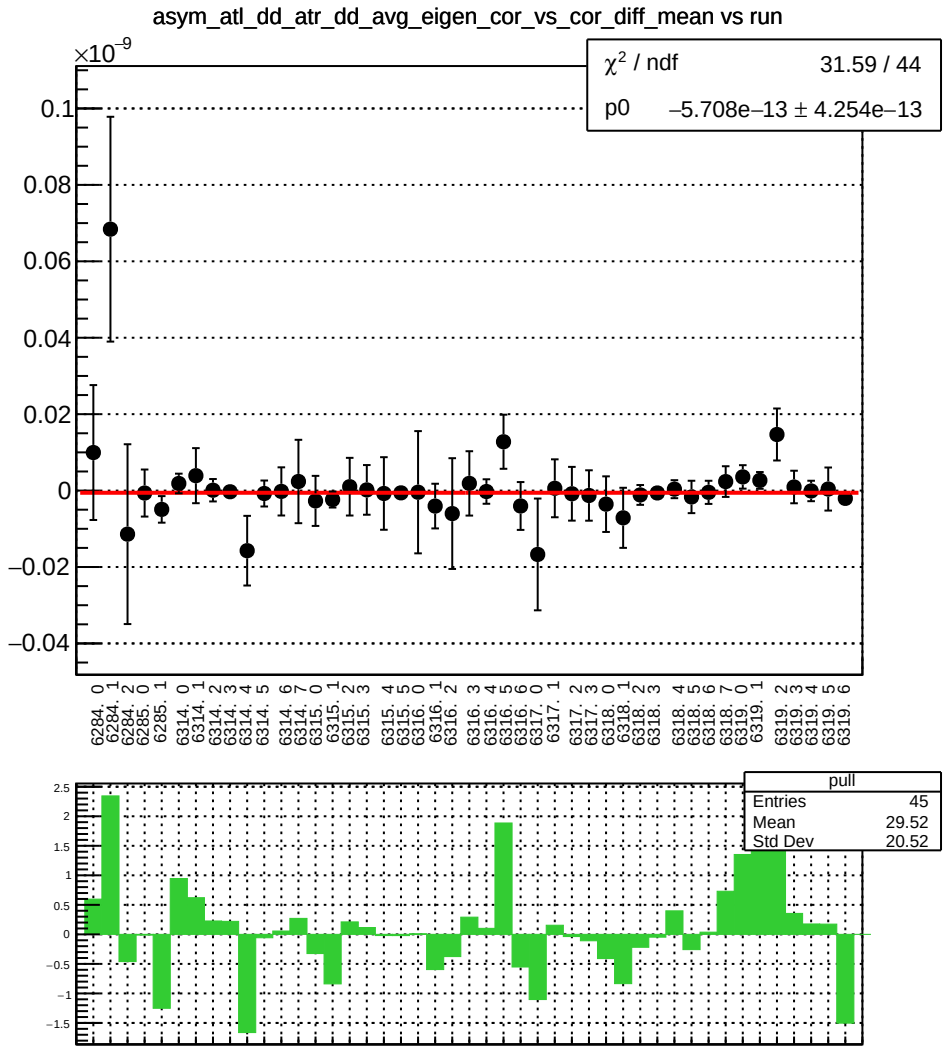
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 31.59 / 44
p0 −5.708e−13 ± 4.254e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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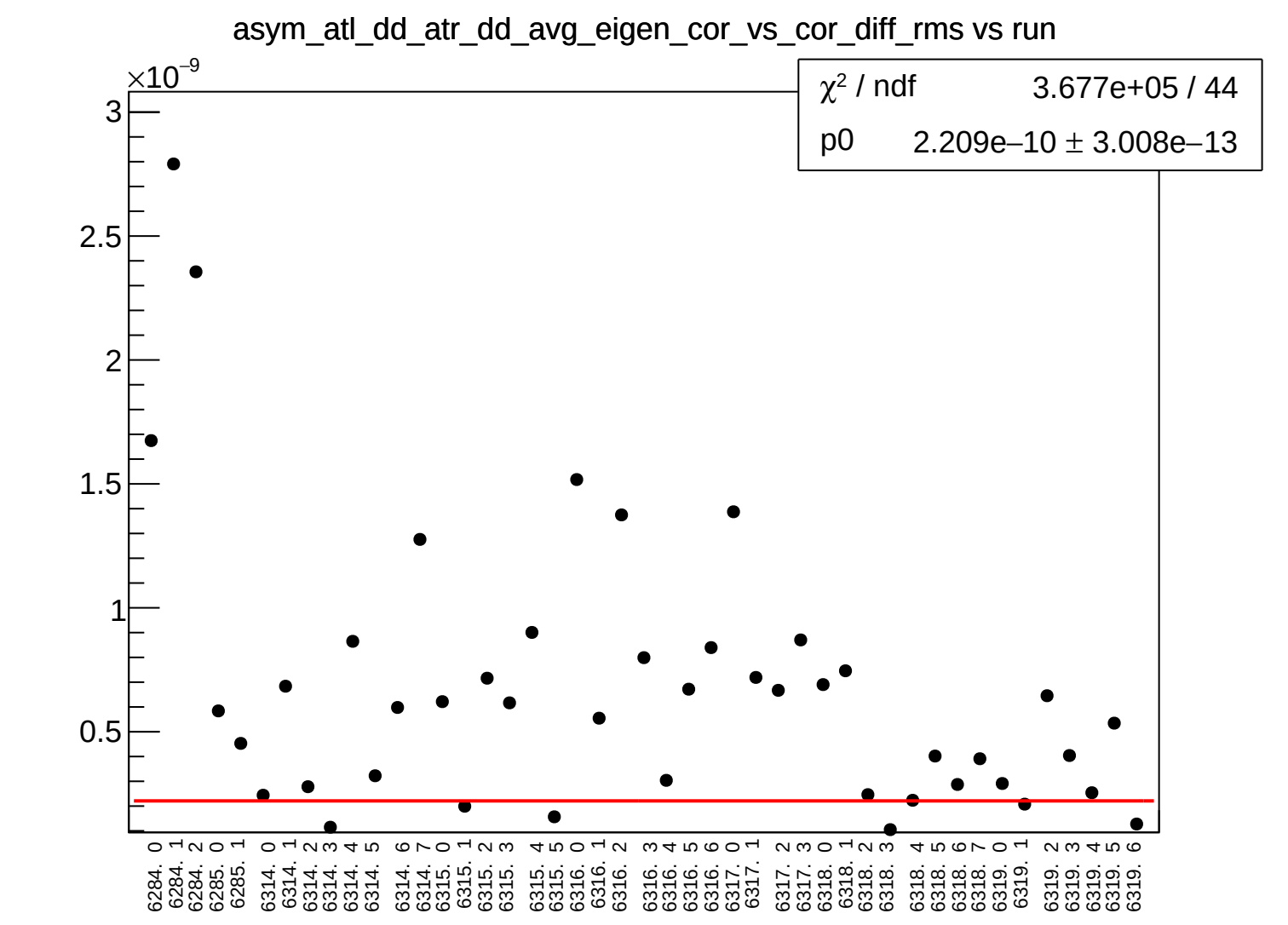
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.52
Std Dev 20.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.09562
Std Dev 0.8323
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.677e+05 / 44
p0 2.209e−10 ± 3.008e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
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6315. 4
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6316. 0
6316. 1
6316. 2
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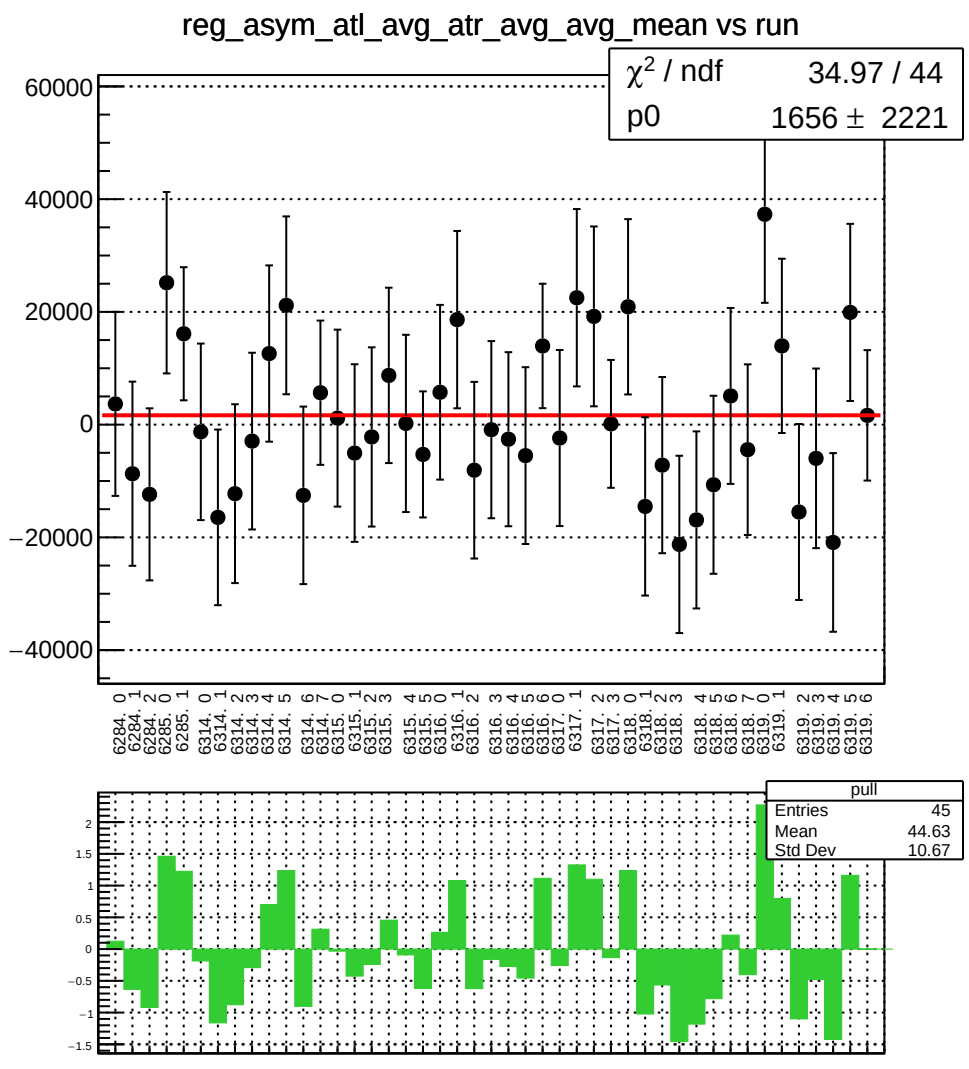
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 34.97 / 44
p0 1656 ± 2221
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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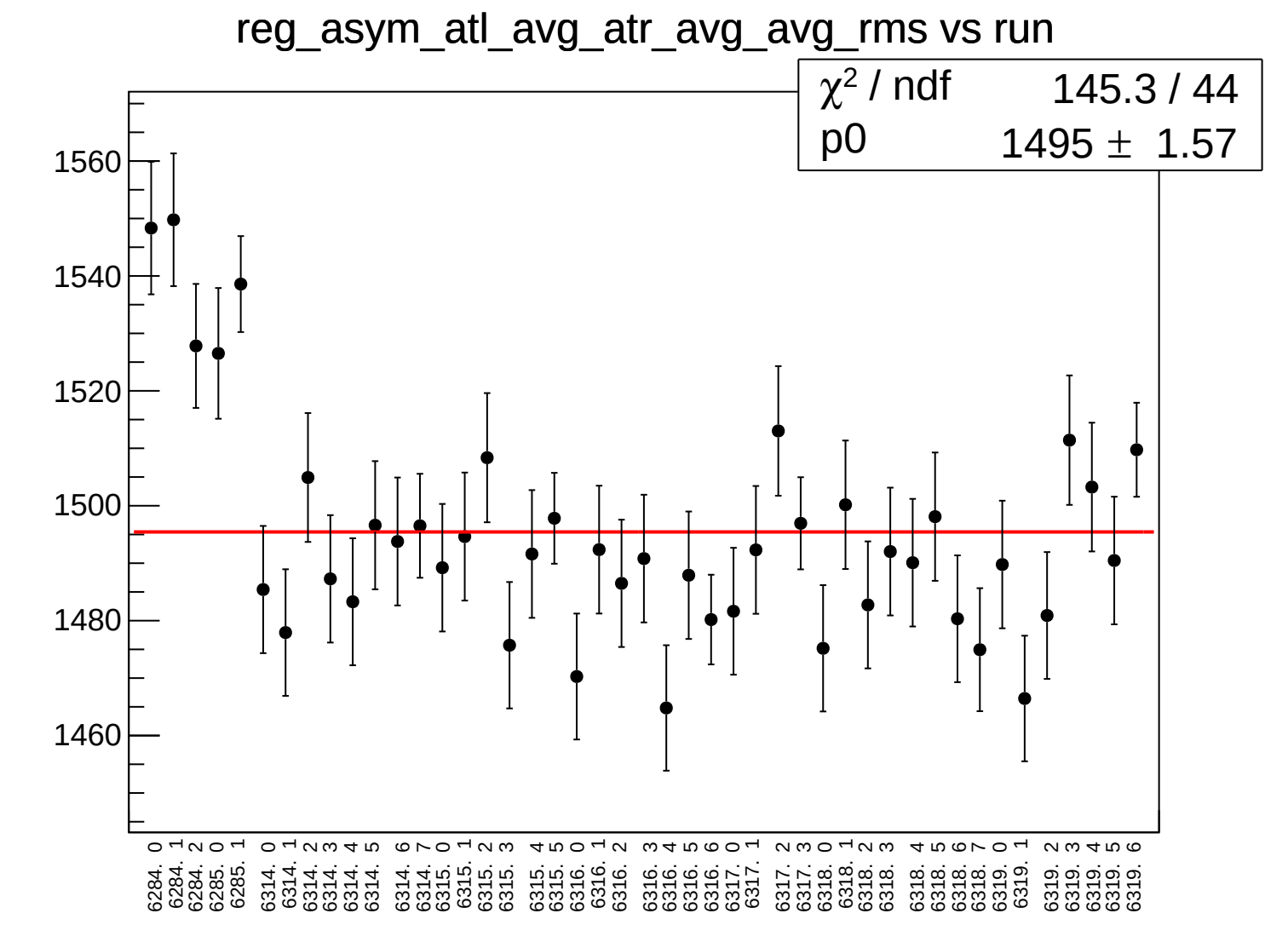
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.63
Std Dev 10.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01373
Std Dev 0.8815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 145.3 / 44
p0 1495 ± 1.57
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
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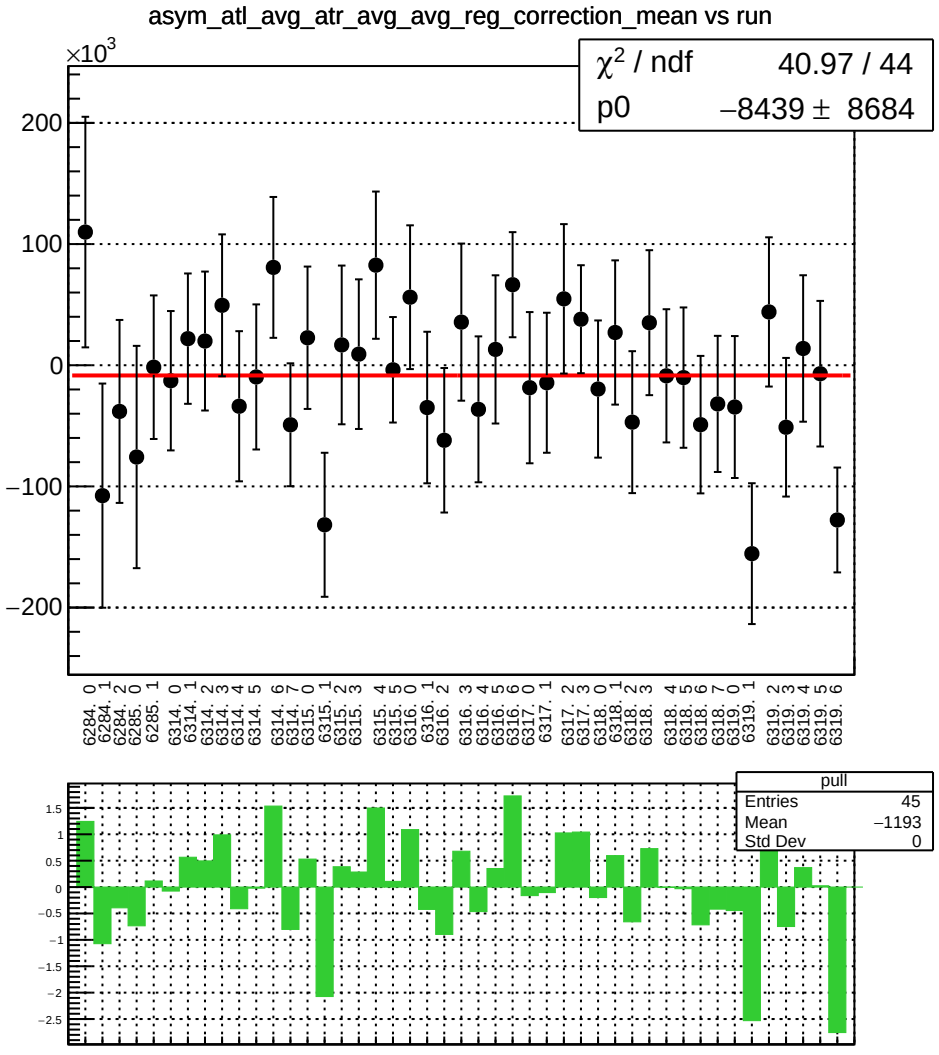
asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −8439 ± 8684
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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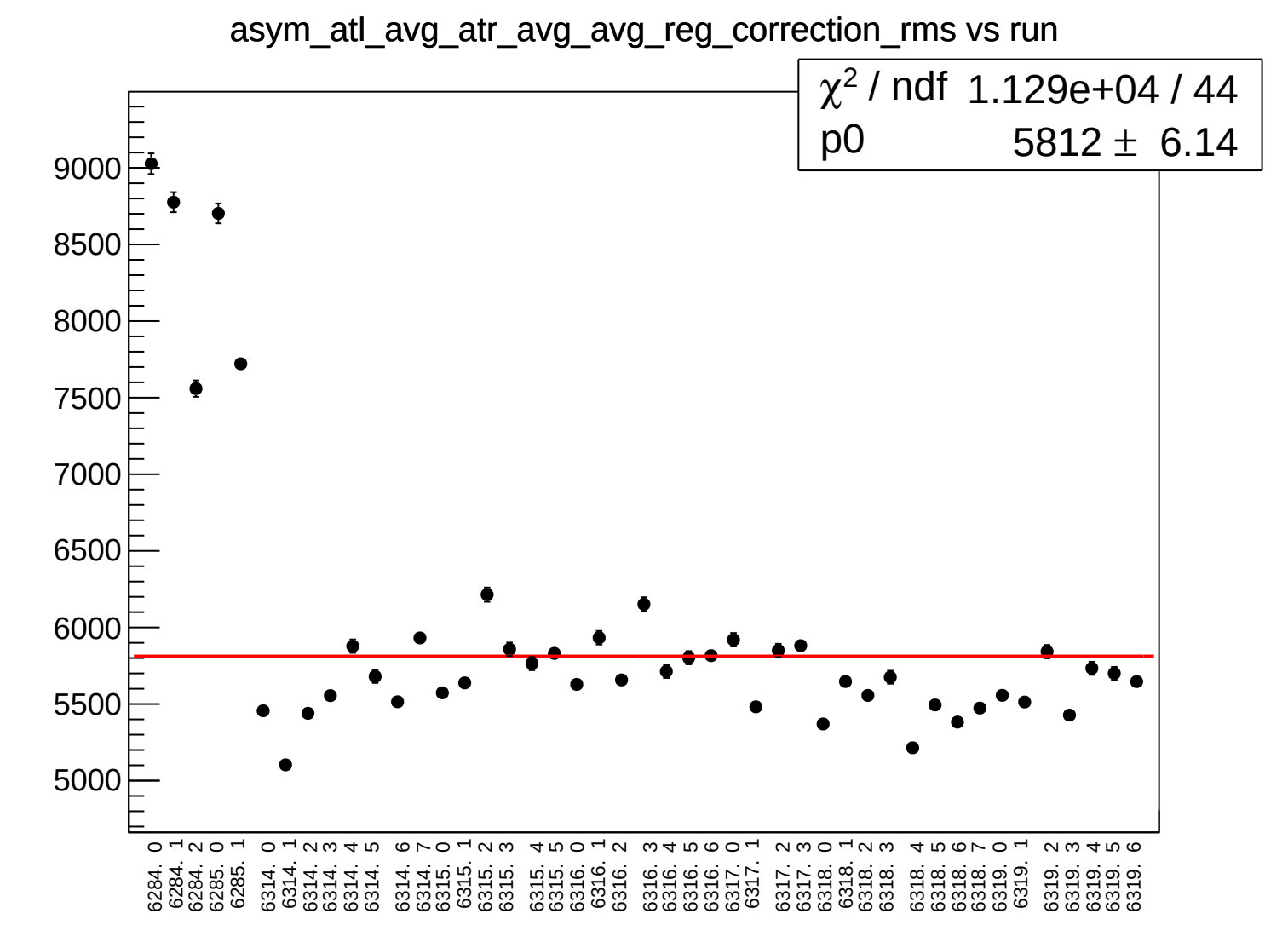
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1193
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.002104
Std Dev 0.9542
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.129e+04 / 44
p0 5812 ± 6.14
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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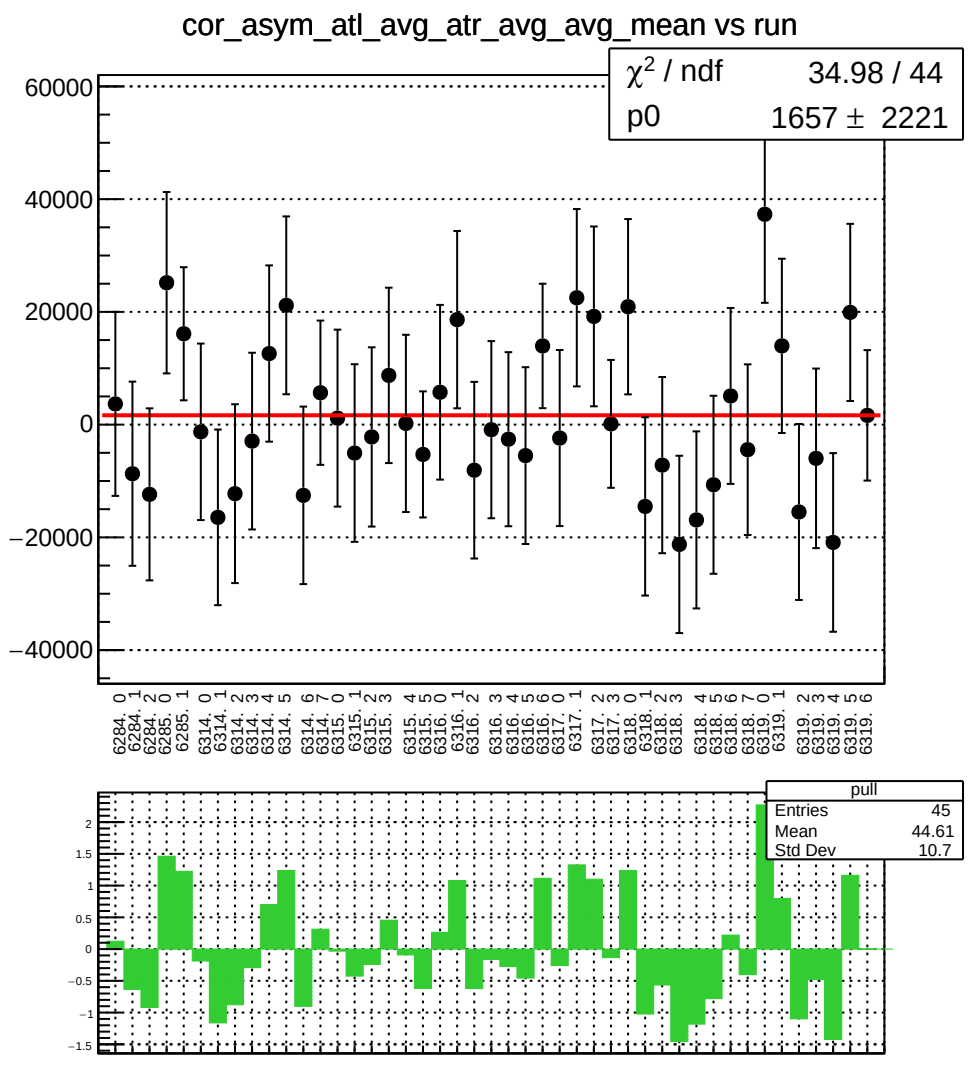
6319. 6


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 34.98 / 44
p0 1657 ± 2221
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 0
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6316. 2
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6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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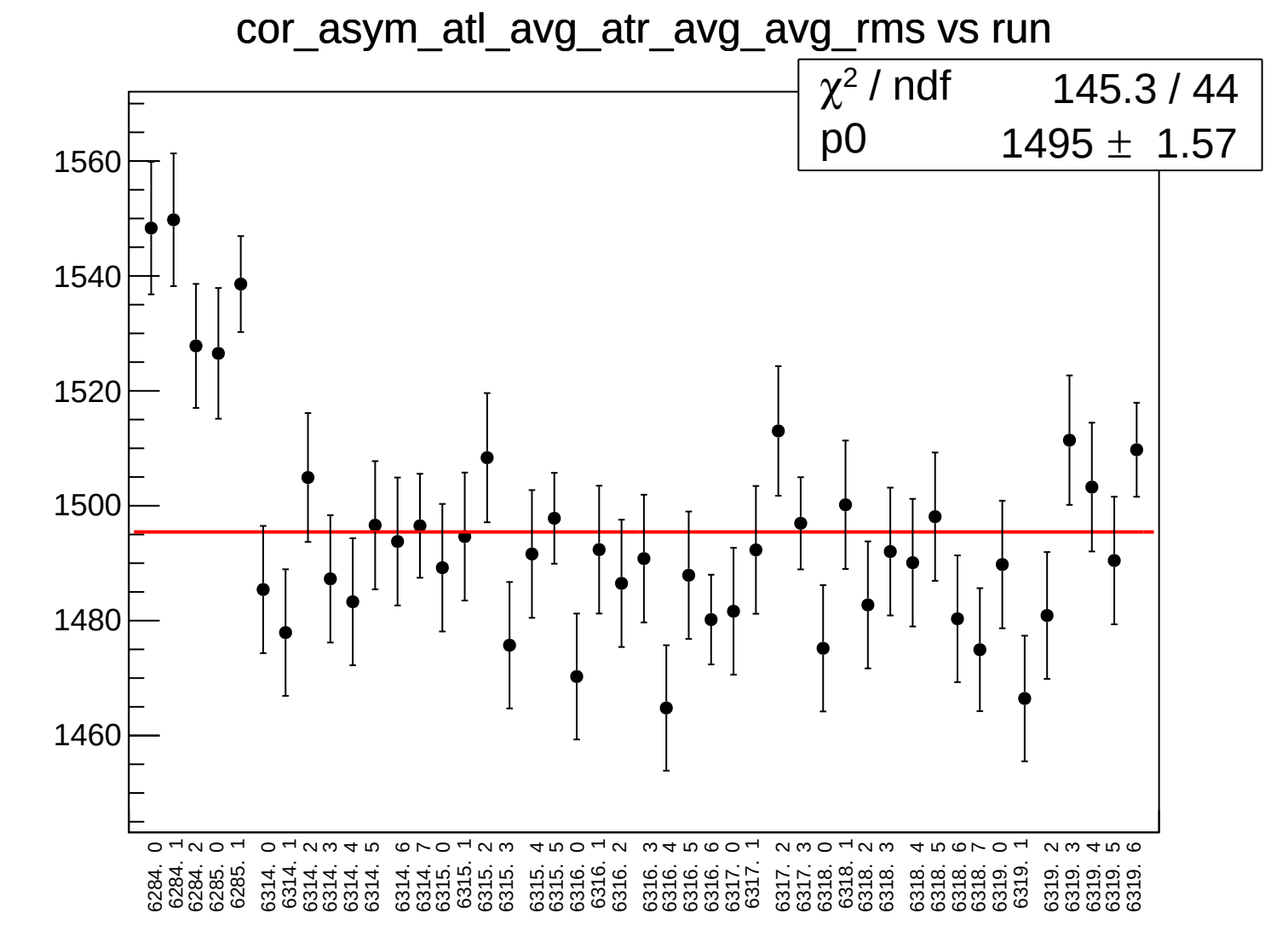
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.61
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01373
Std Dev 0.8815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 145.3 / 44
p0 1495 ± 1.57
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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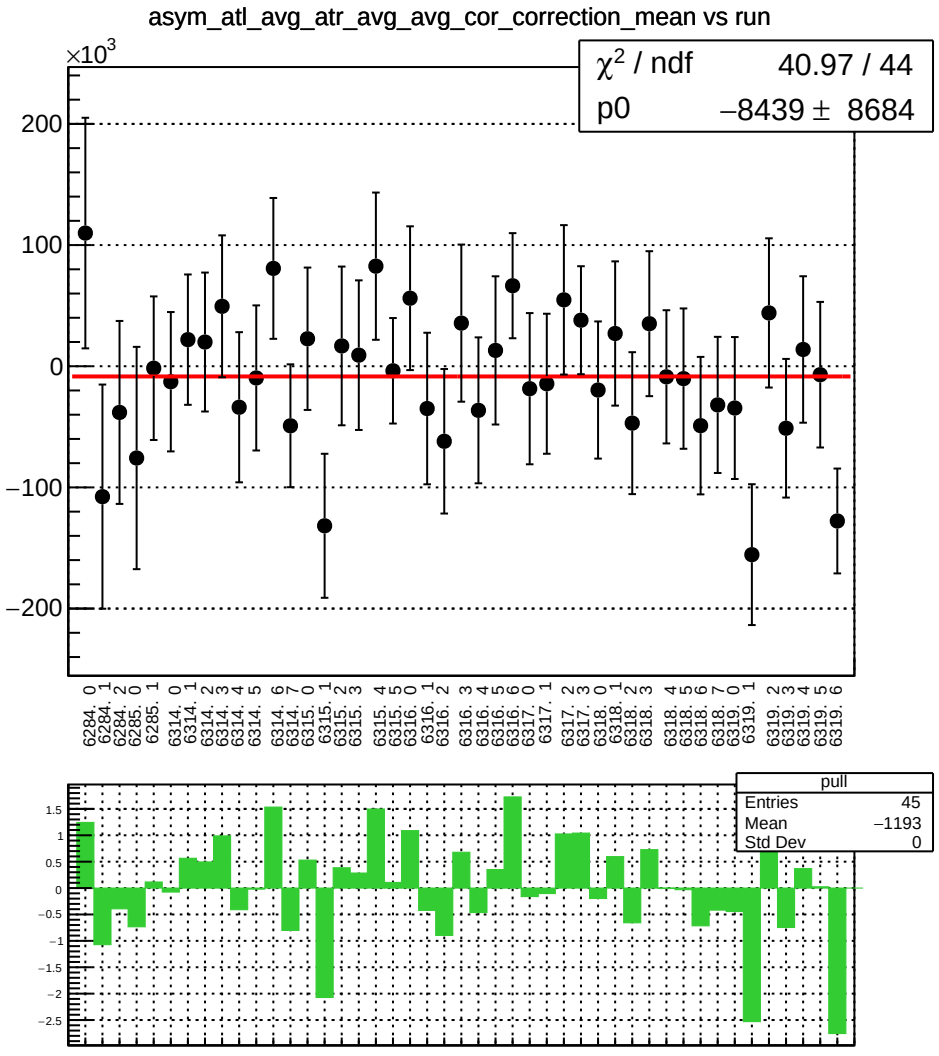
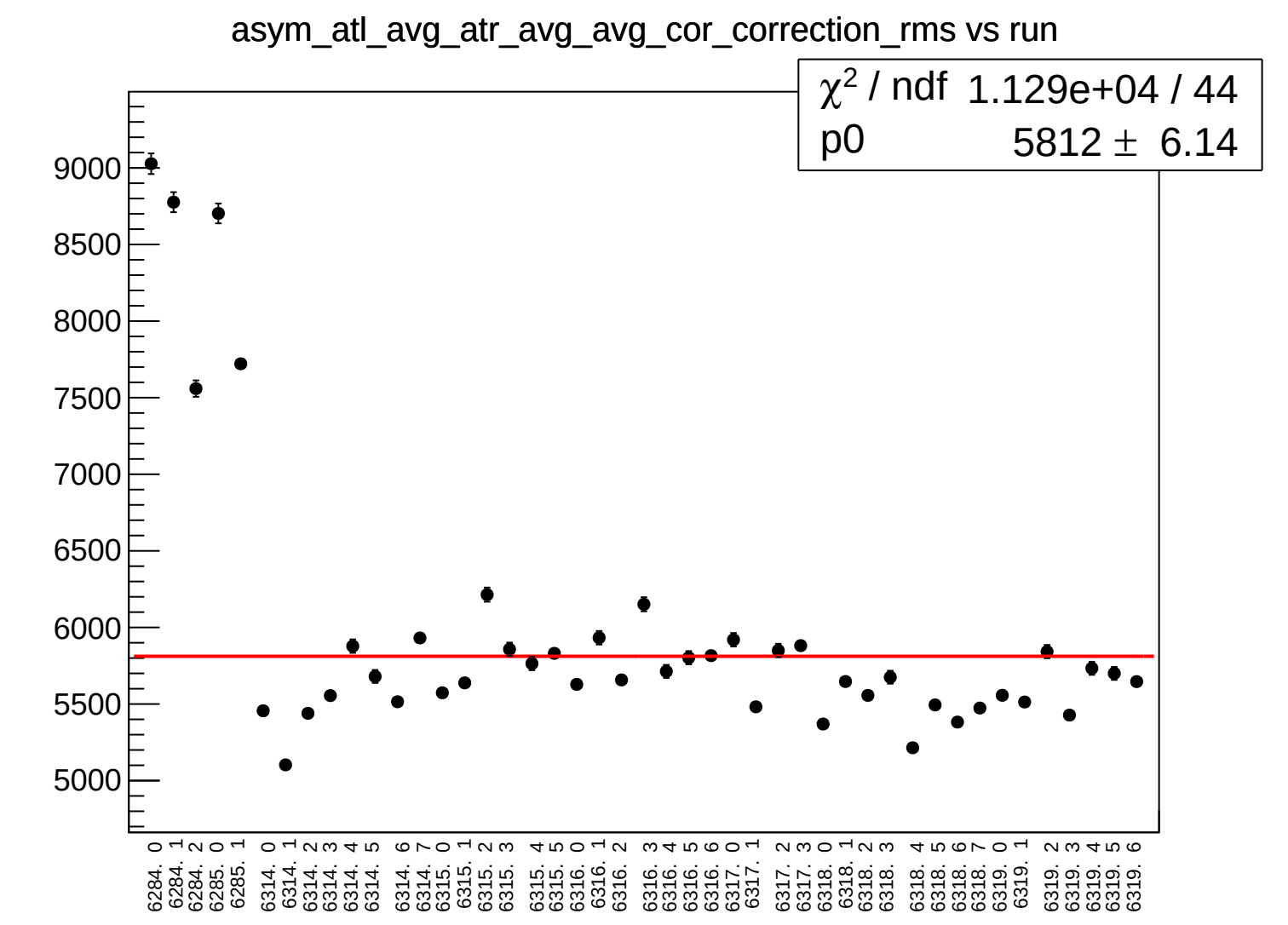
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −8439 ± 8684
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1193
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.002103
Std Dev 0.9542
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.129e+04 / 44
p0 5812 ± 6.14
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
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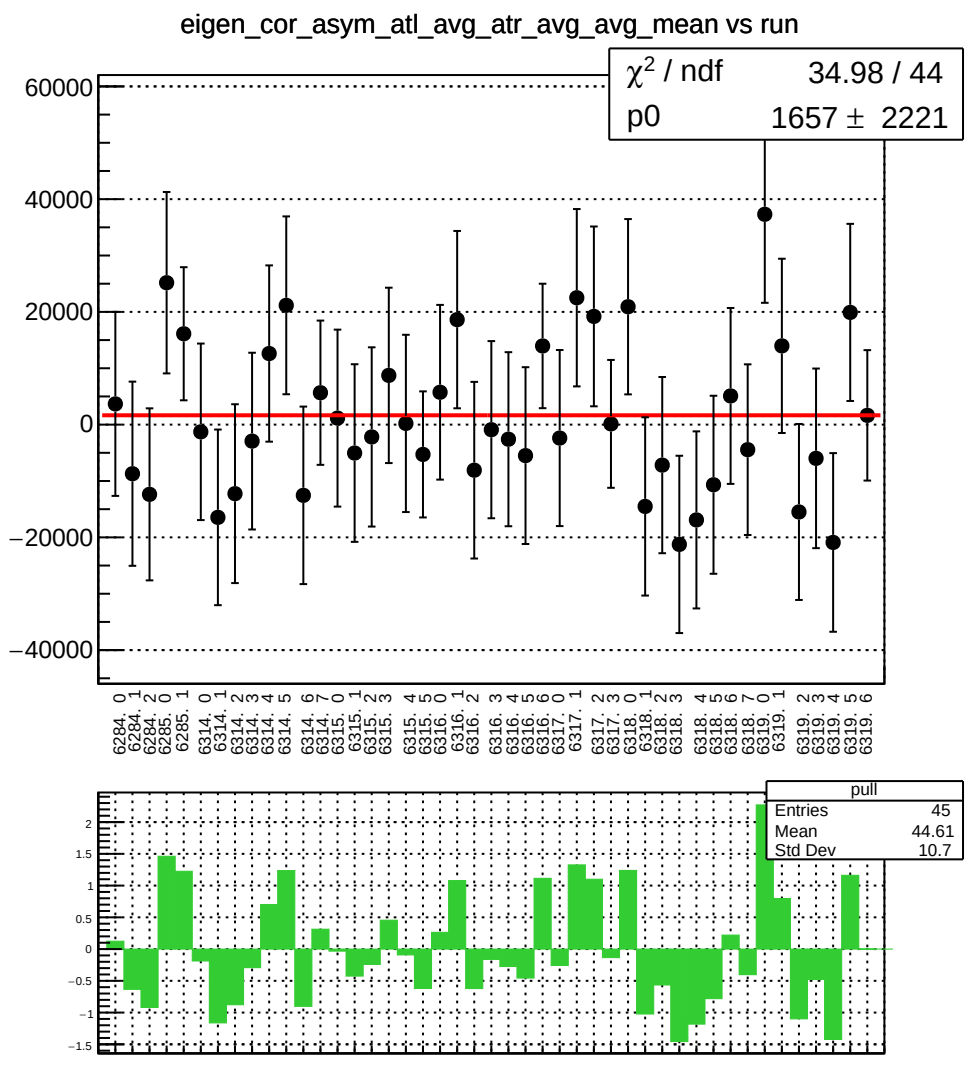
6319. 6


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 34.98 / 44
p0 1657 ± 2221
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.61
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01373
Std Dev 0.8815
10
8
6
4
2
0
−8
−6
−4
−2
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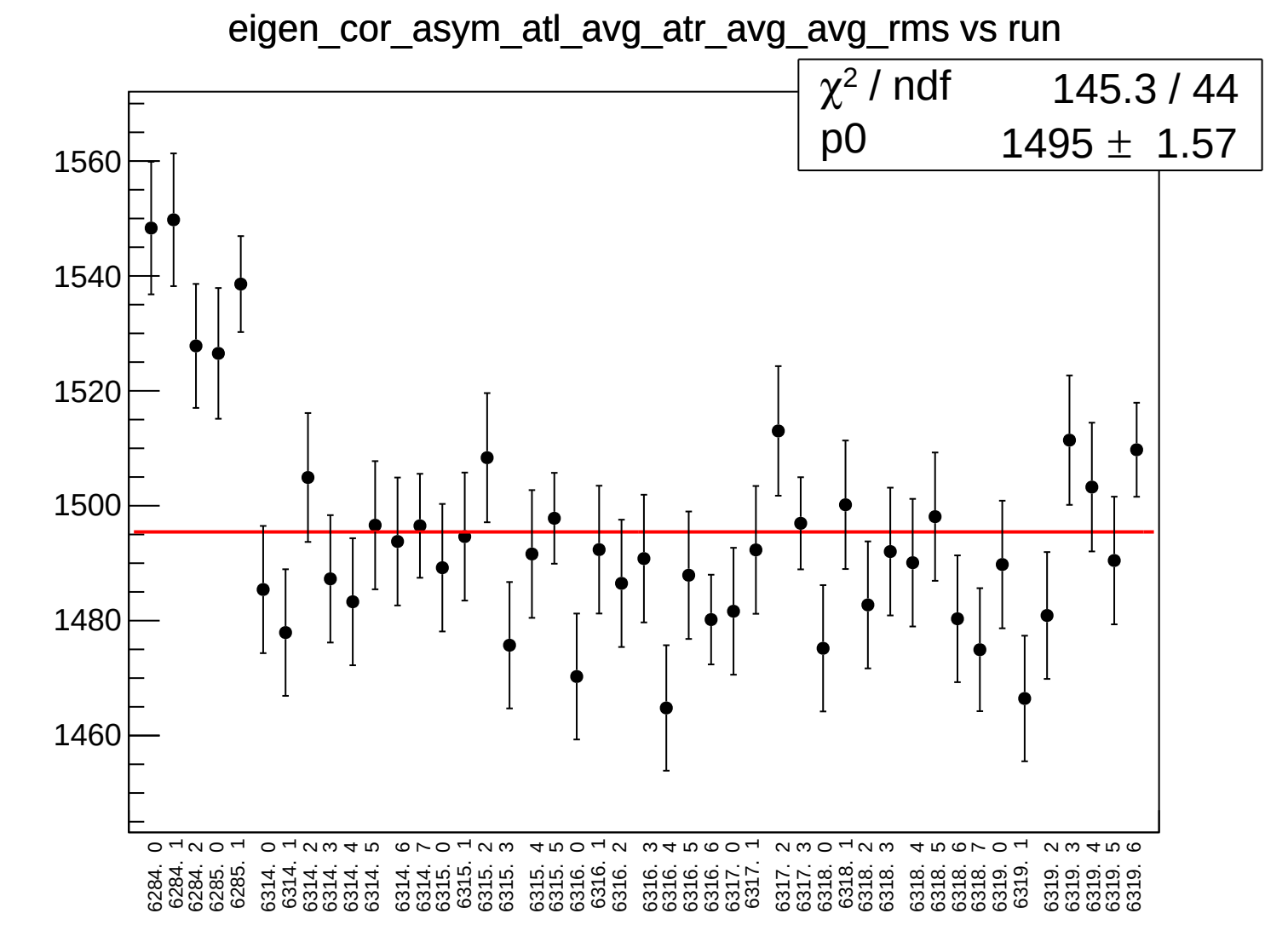
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 145.3 / 44
p0 1495 ± 1.57
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
6314. 1
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6314. 3
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6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 1
6319. 2
6319. 3
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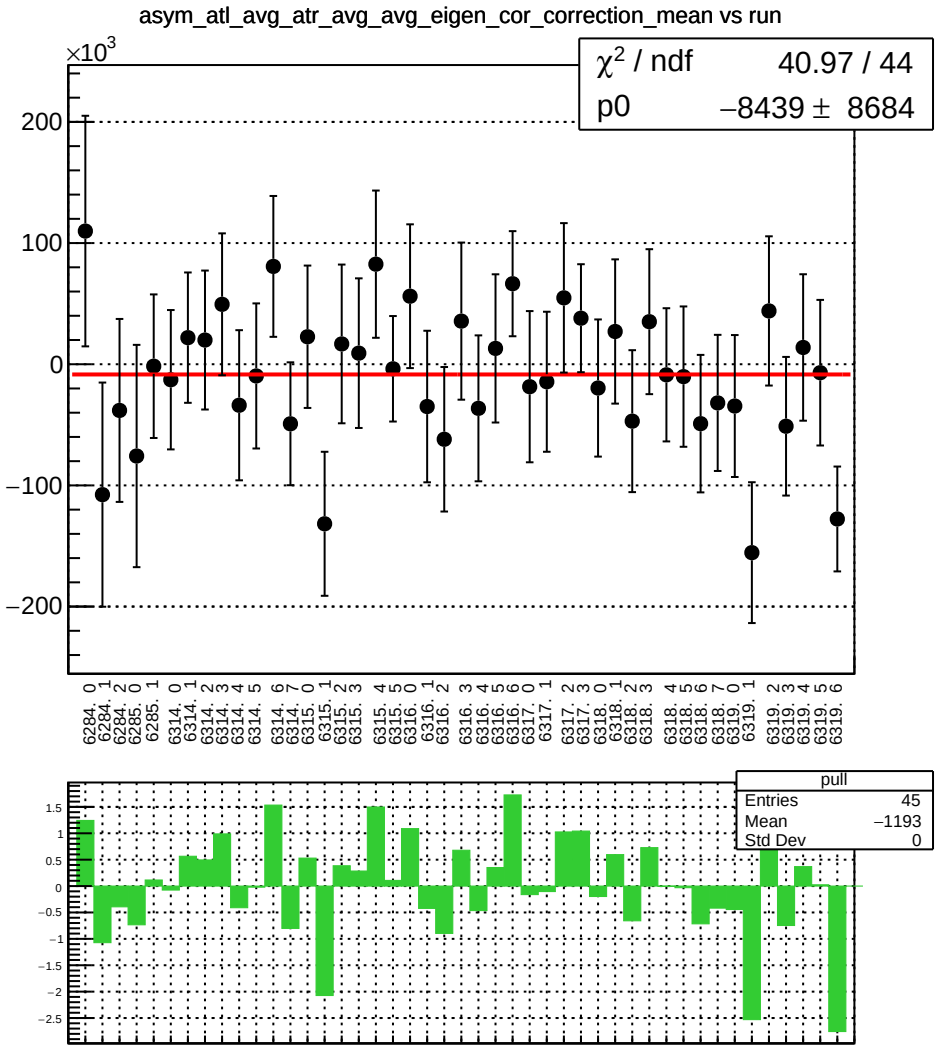
6319. 6


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.97 / 44
p0 −8439 ± 8684
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
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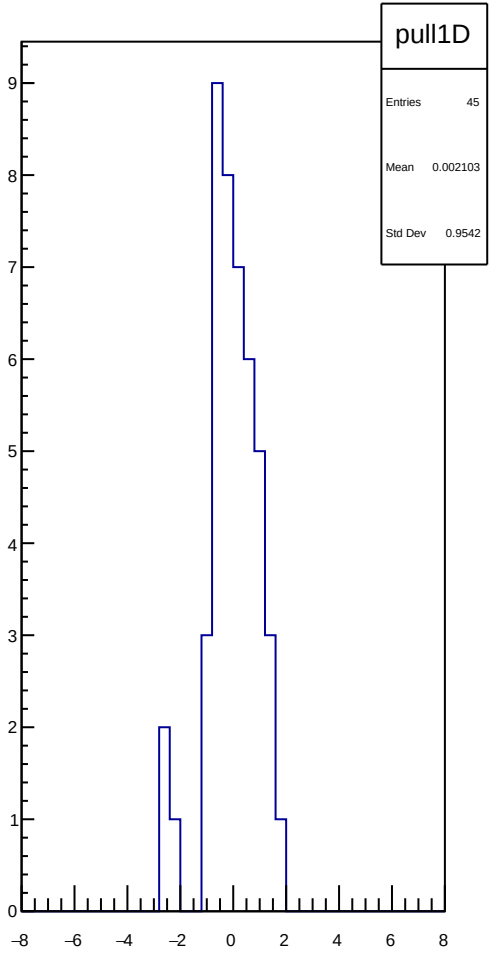
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1193
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002103
Std Dev 0.9542
9
8
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6
5
4
3
2
1
0
−8
−6
−4
−2
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2
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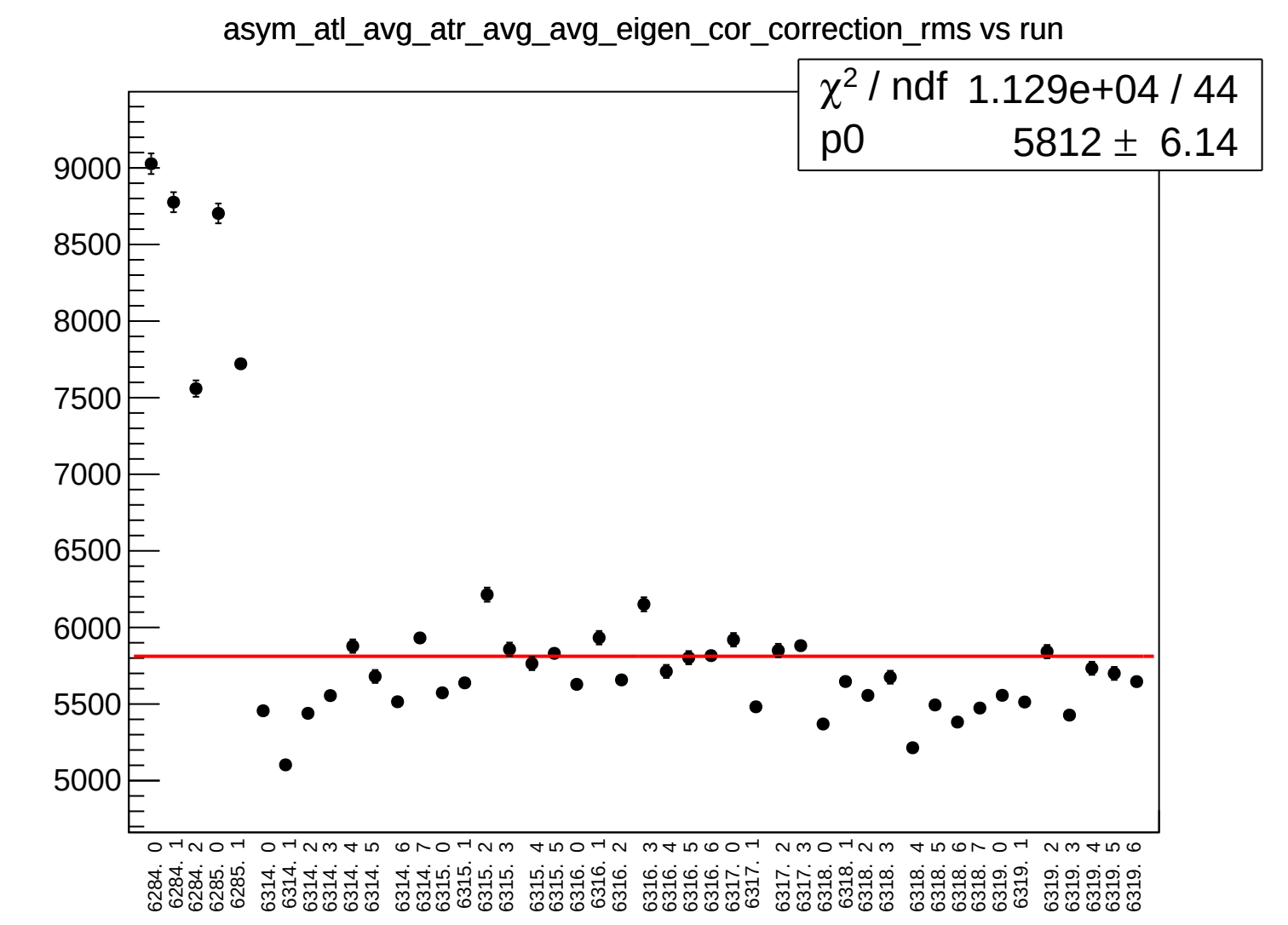
6
8


asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.129e+04 / 44
p0 5812 ± 6.14
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
6317. 0
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6317. 3
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6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
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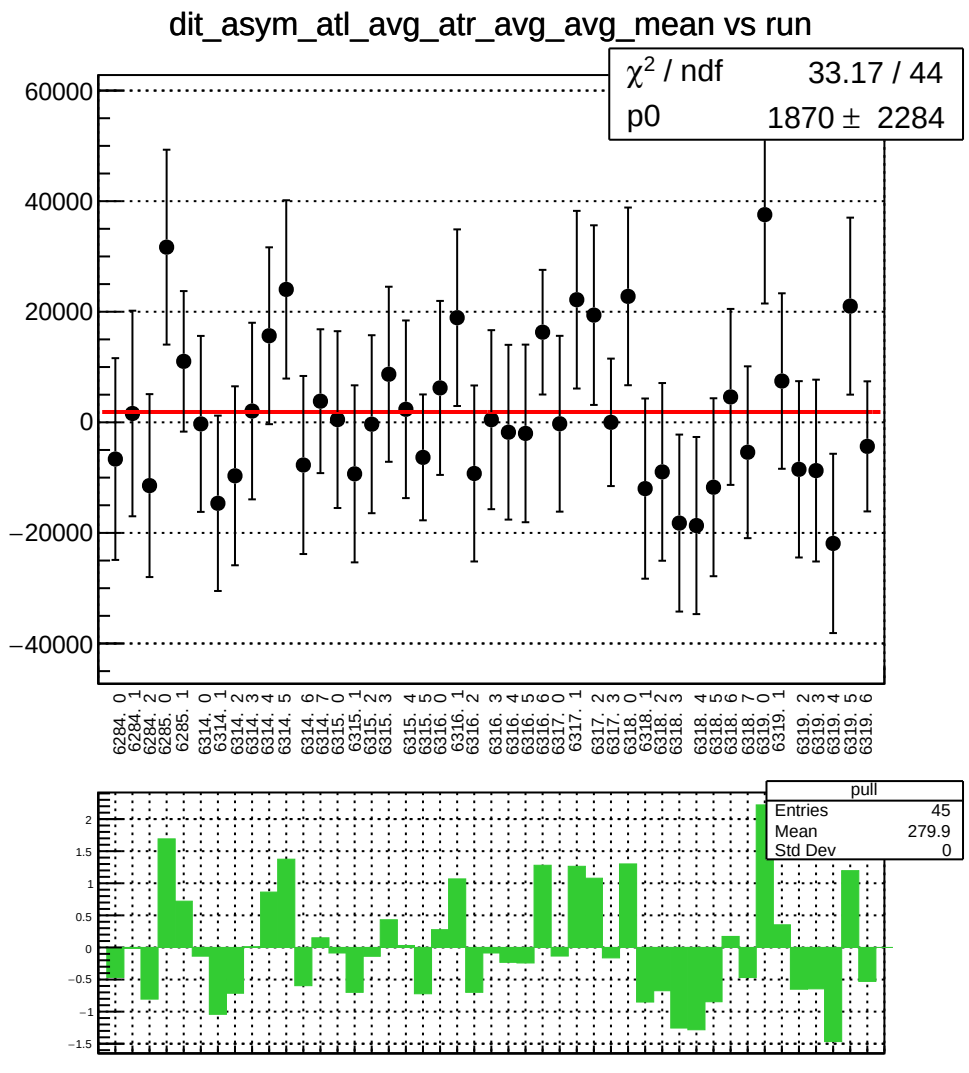
dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.17 / 44
p0 1870 ± 2284
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 1
6316. 2
6316. 3
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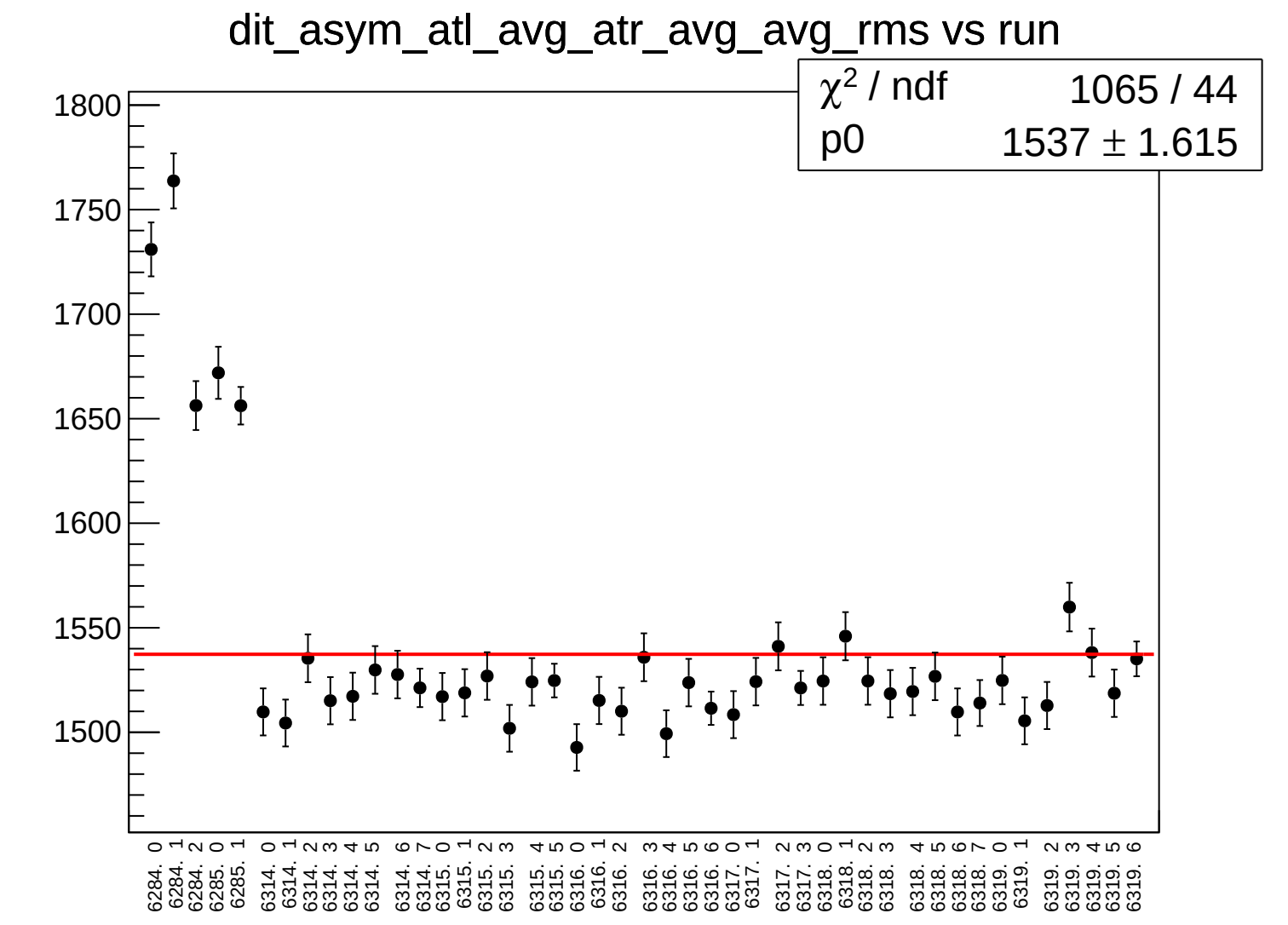
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 279.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003384
Std Dev 0.8585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1065 / 44
p0 1537 ± 1.615
1800
1750
1700
1650
1600
1550
1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6315. 2
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6316. 0
6316. 1
6316. 2
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6316. 4
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6317. 0
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6317. 2
6317. 3
6318. 0
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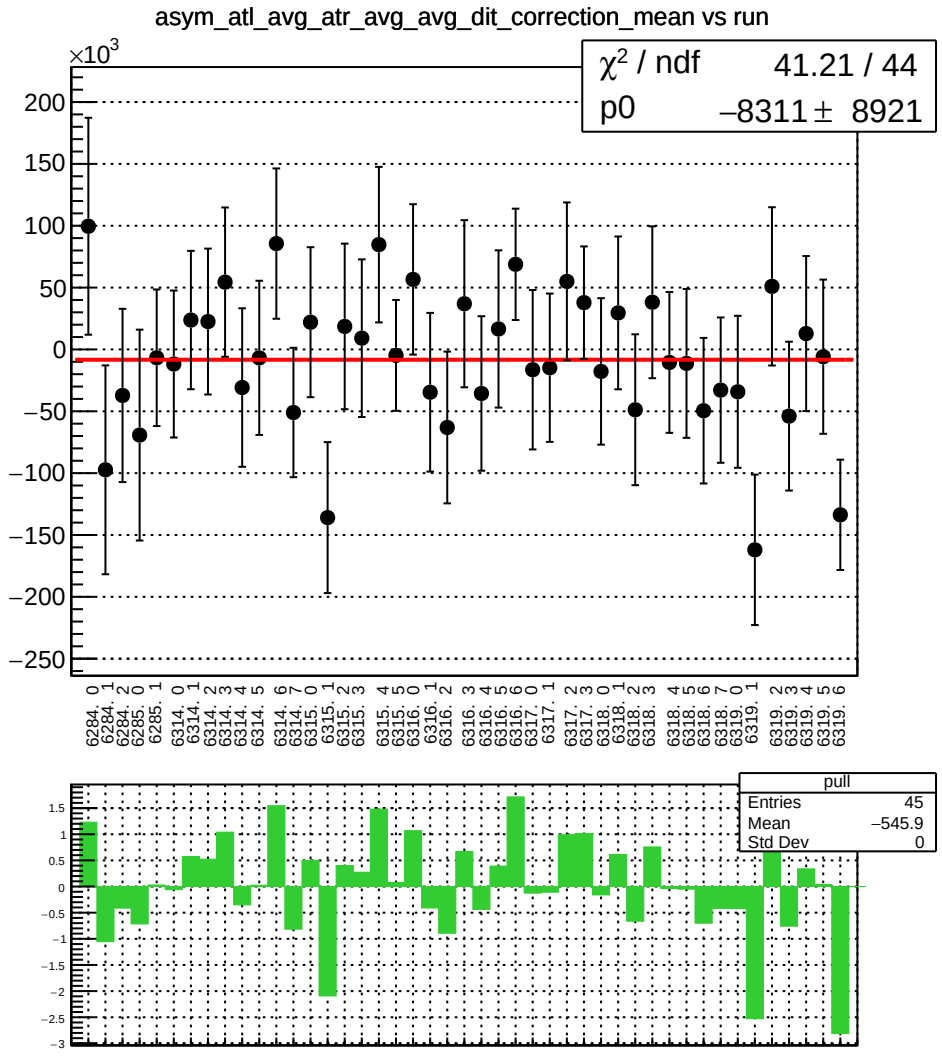
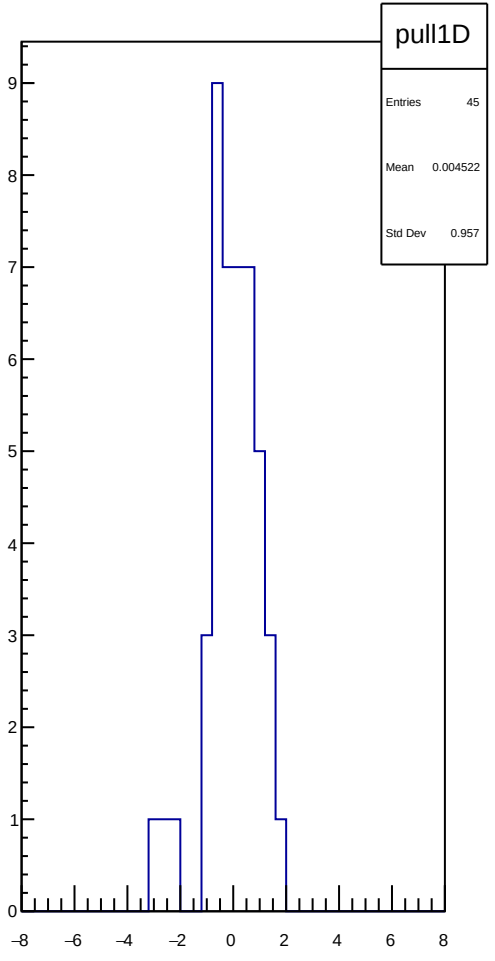
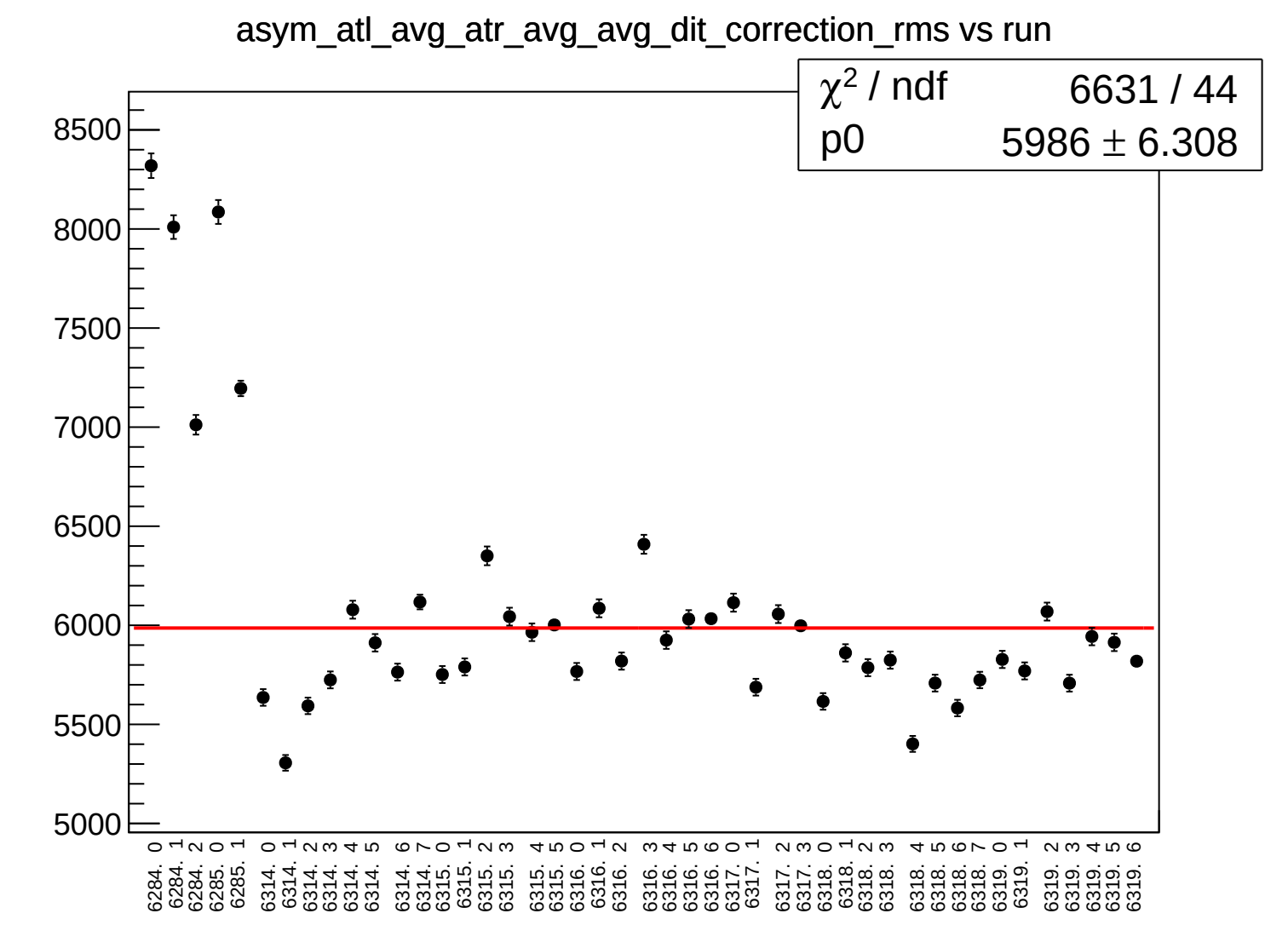
6319. 6


asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.21 / 44
p0 −8311 ± 8921
pull
Entries 45
Mean −545.9
Std Dev 0


pull1D
Entries 45
Mean 0.004522
Std Dev 0.957


asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6631 / 44
p0 5986 ± 6.308
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6315. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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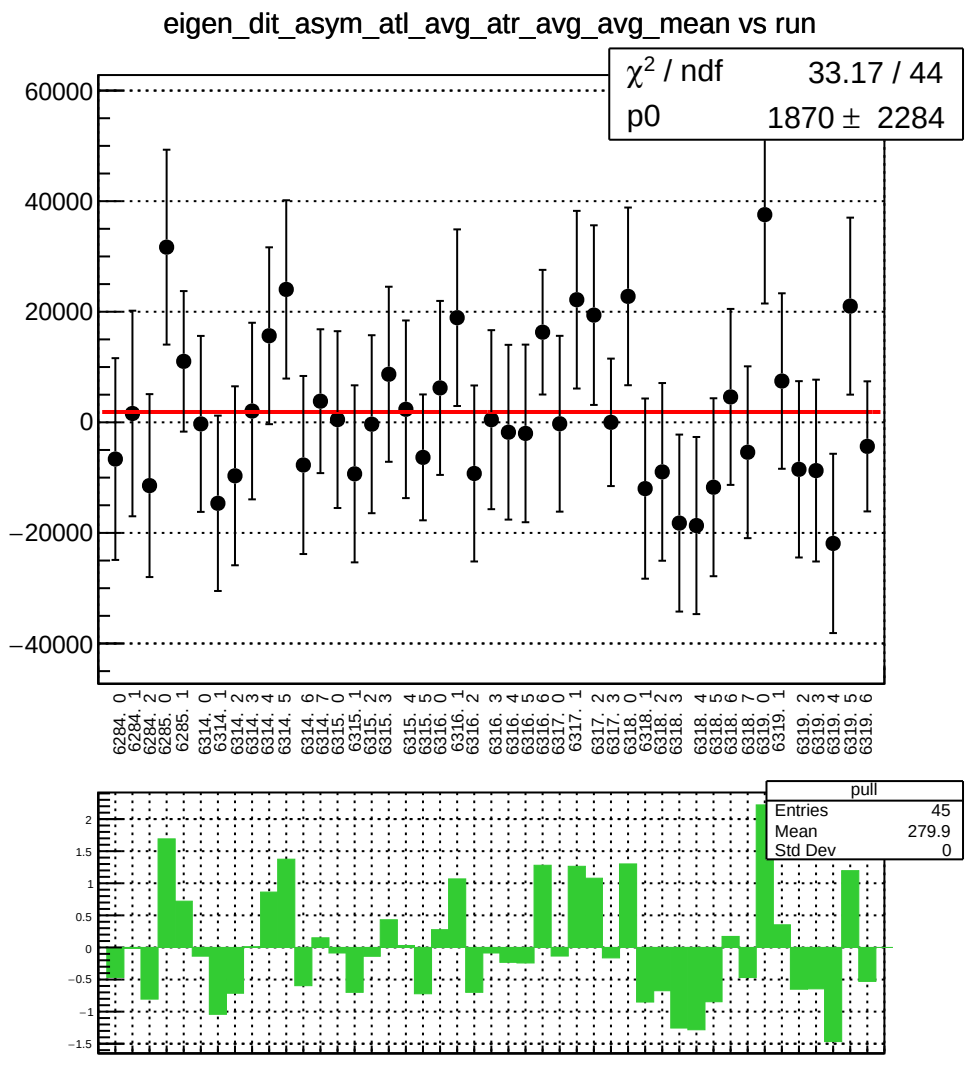
eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.17 / 44
p0 1870 ± 2284
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
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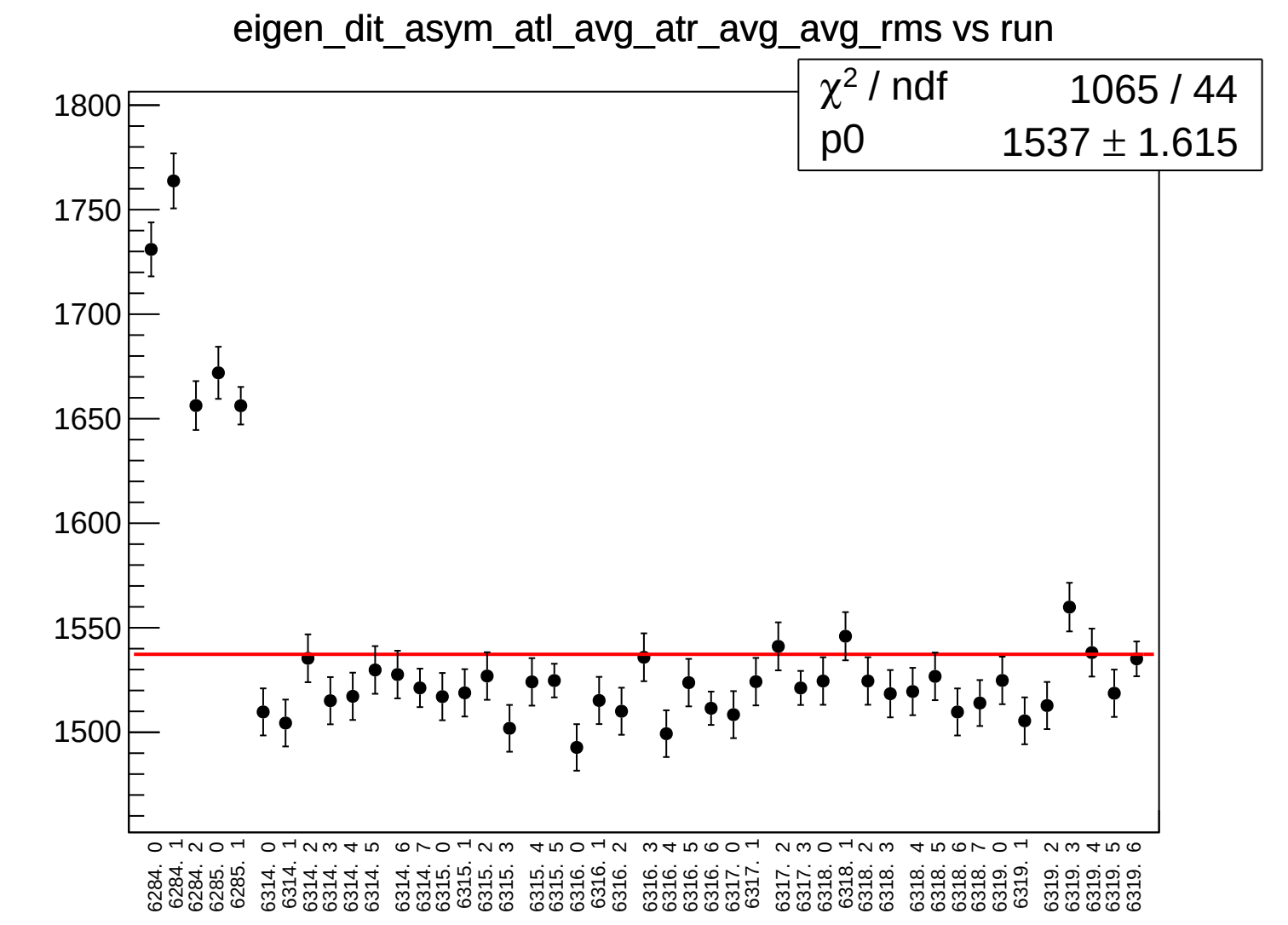
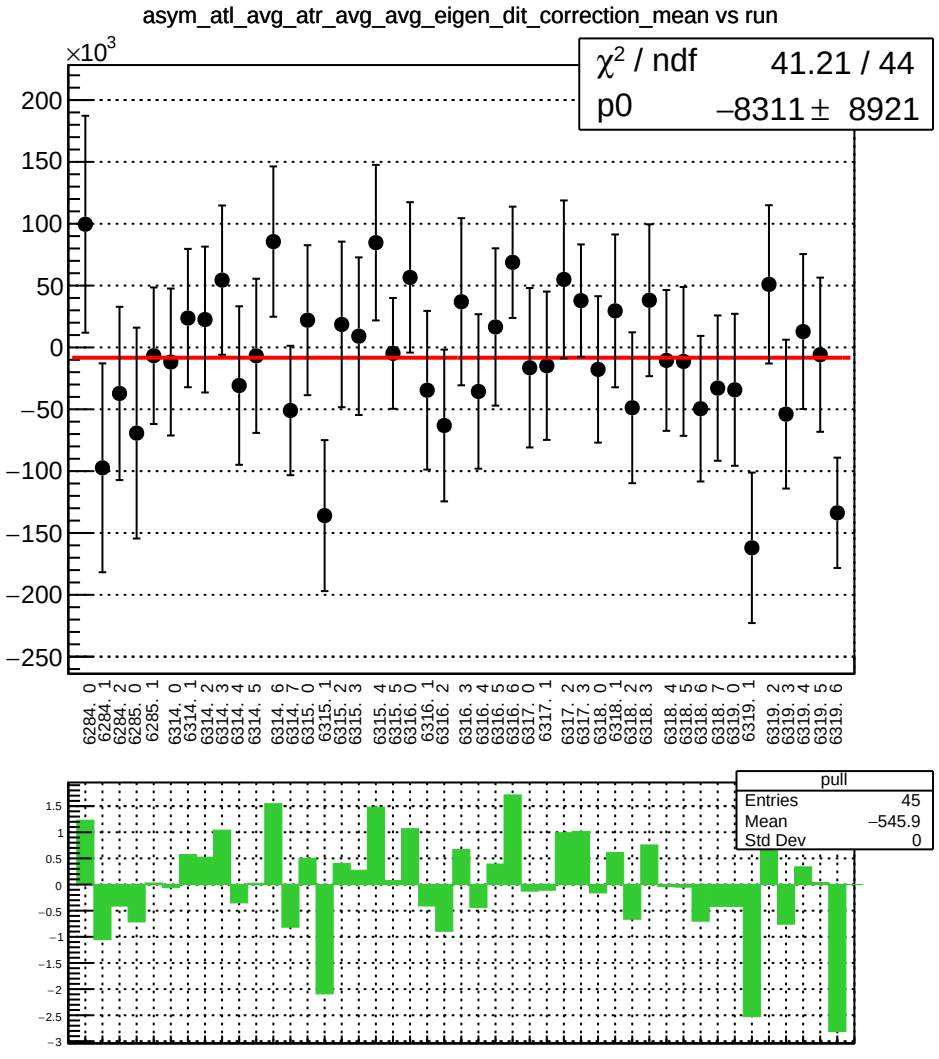
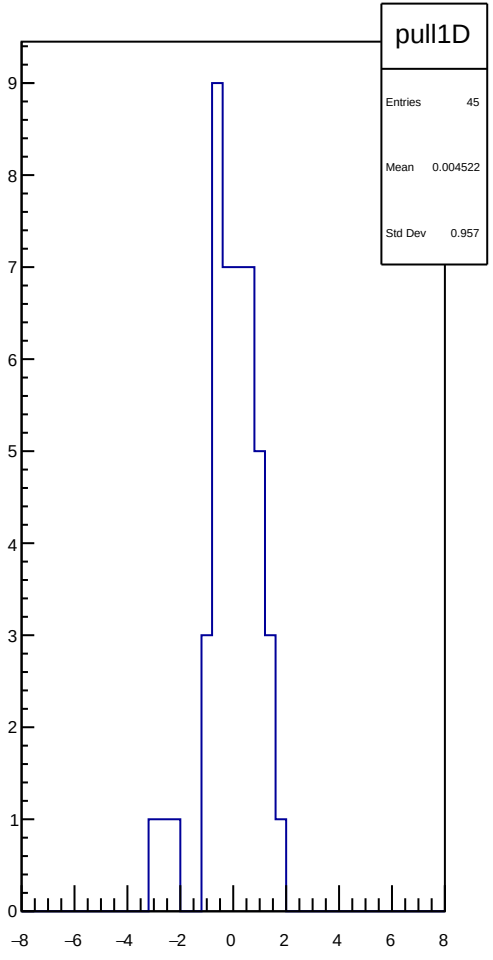
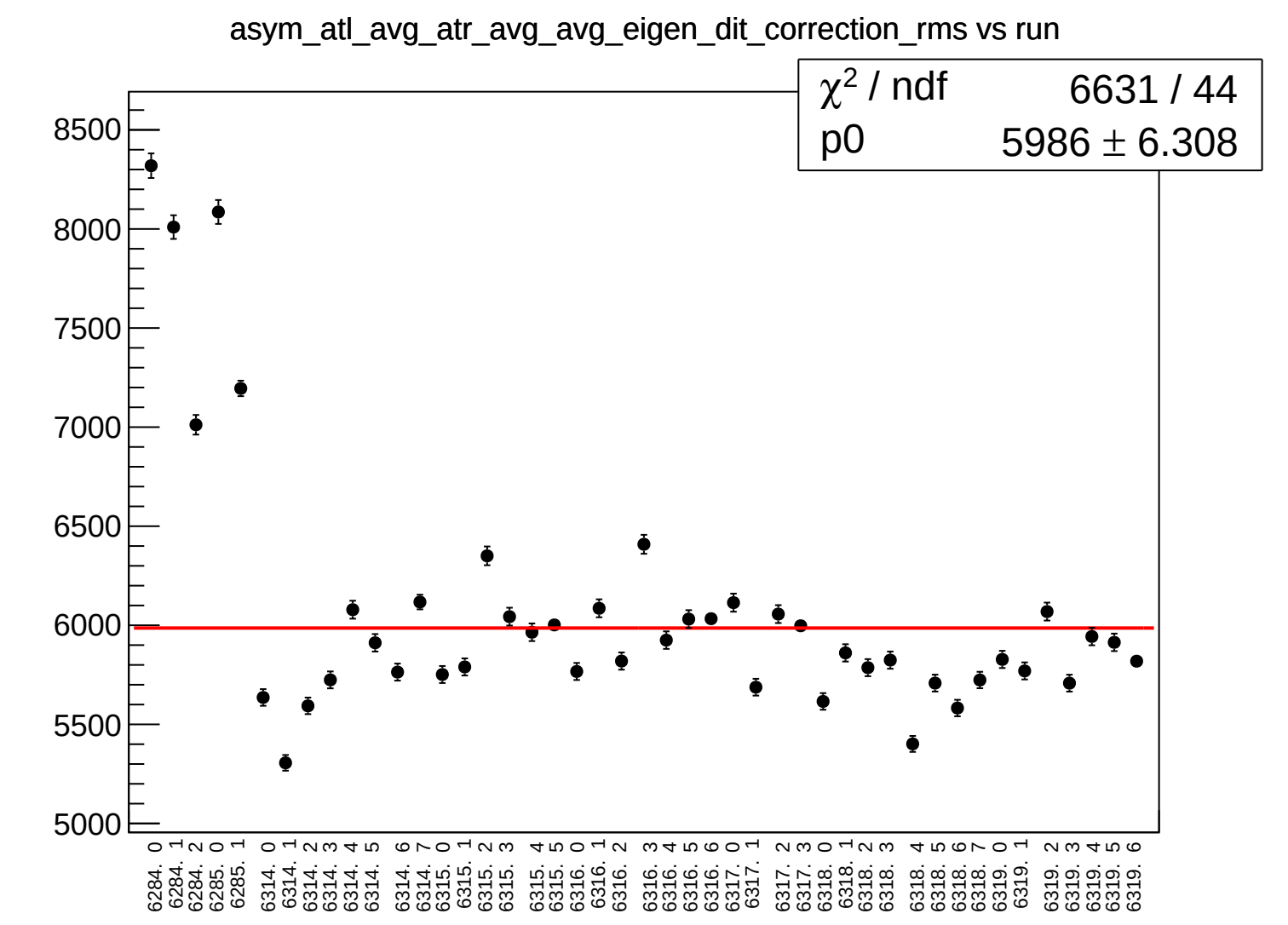
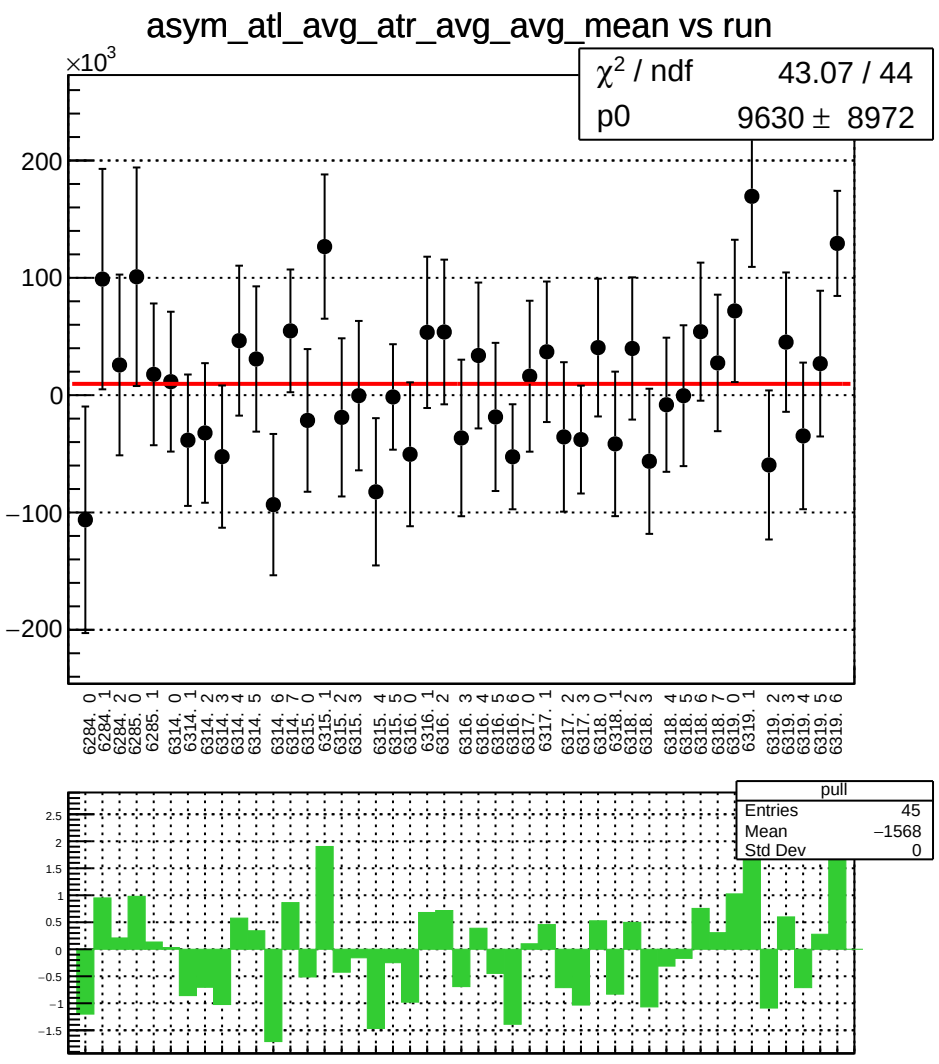
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 279.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003384
Std Dev 0.8585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

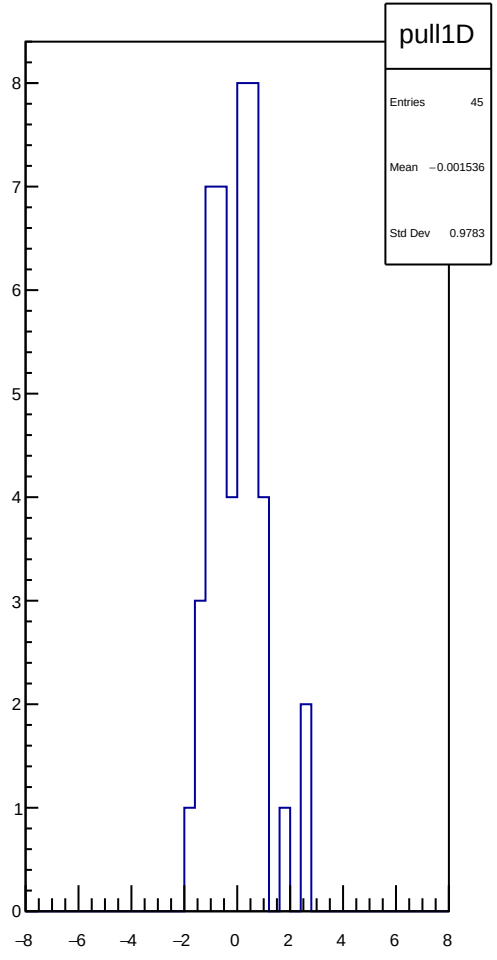

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1065 / 44
p0 1537 ± 1.615
1800
1750
1700
1650
1600
1550
1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

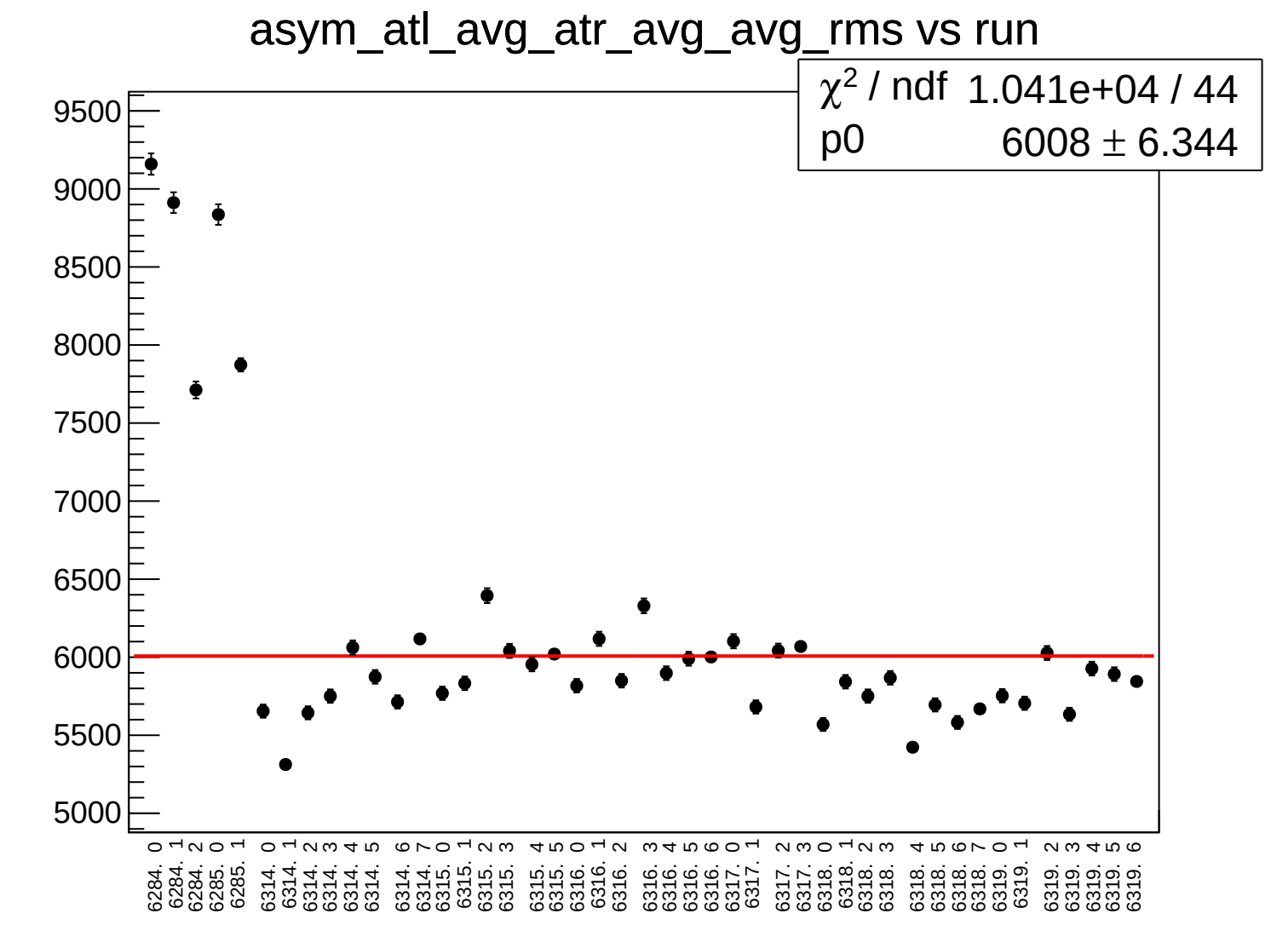

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.21 / 44
p0 −8311 ± 8921
200
150
100
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −545.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

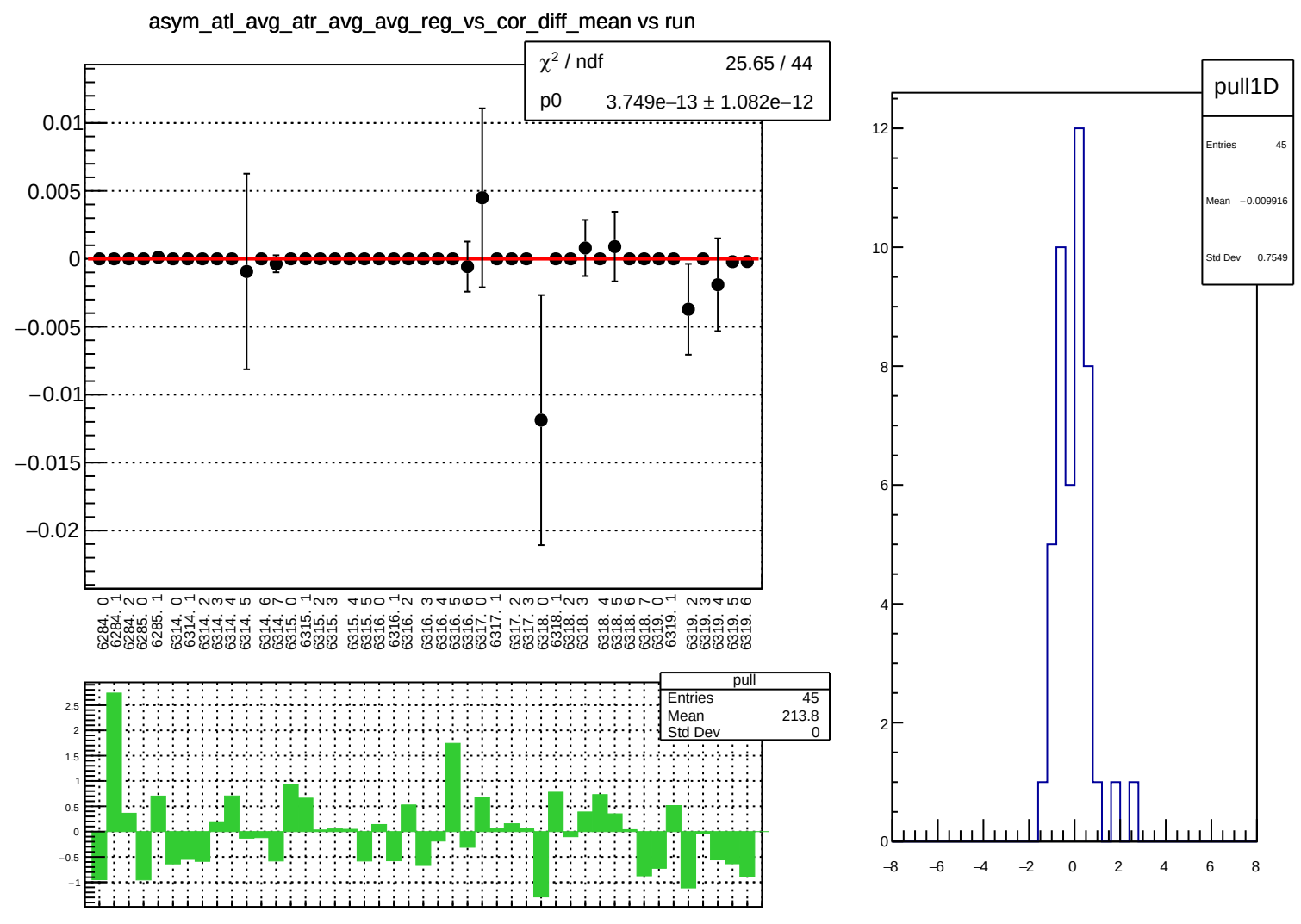

pull1D
Entries 45
Mean 0.004522
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

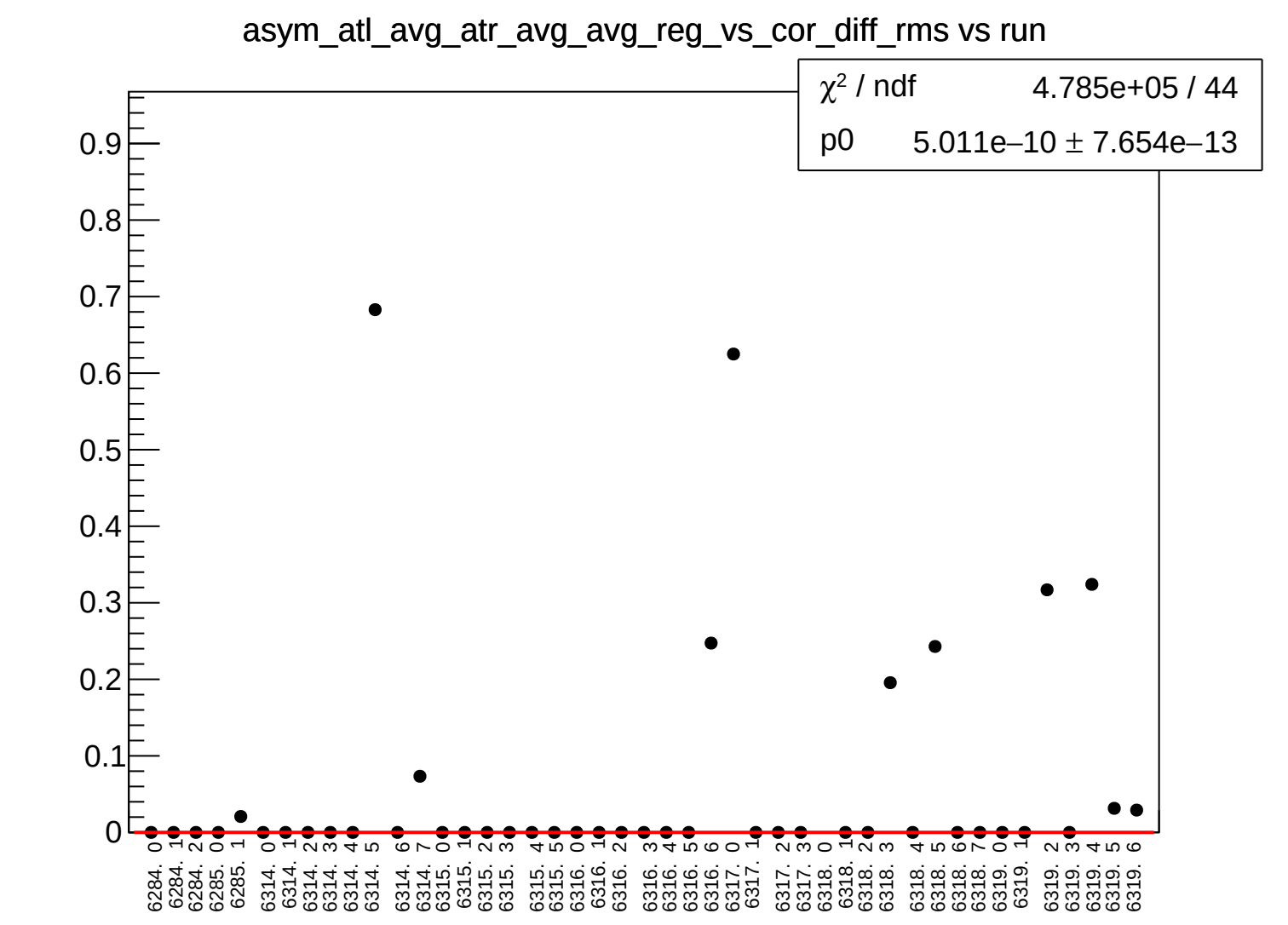

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6631 / 44
p0 5986 ± 6.308
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

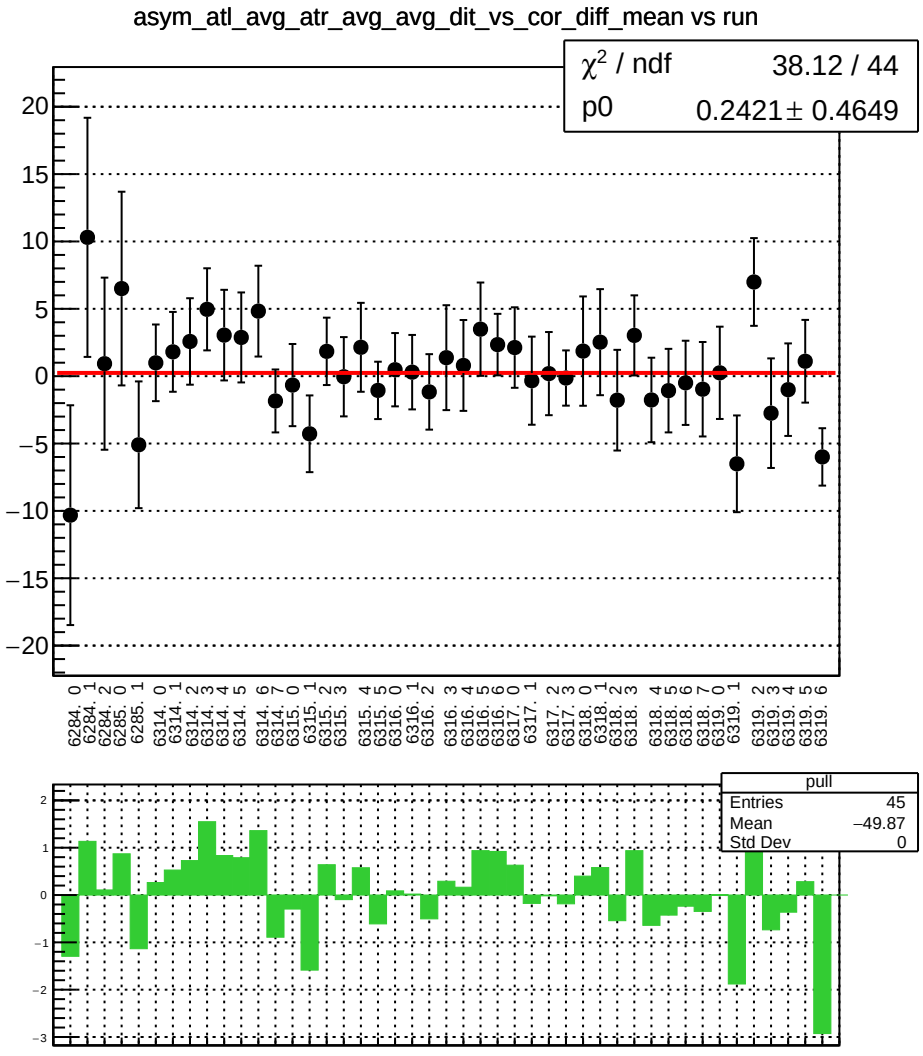

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 43.07 / 44
p0 9630 ± 8972
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1568
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

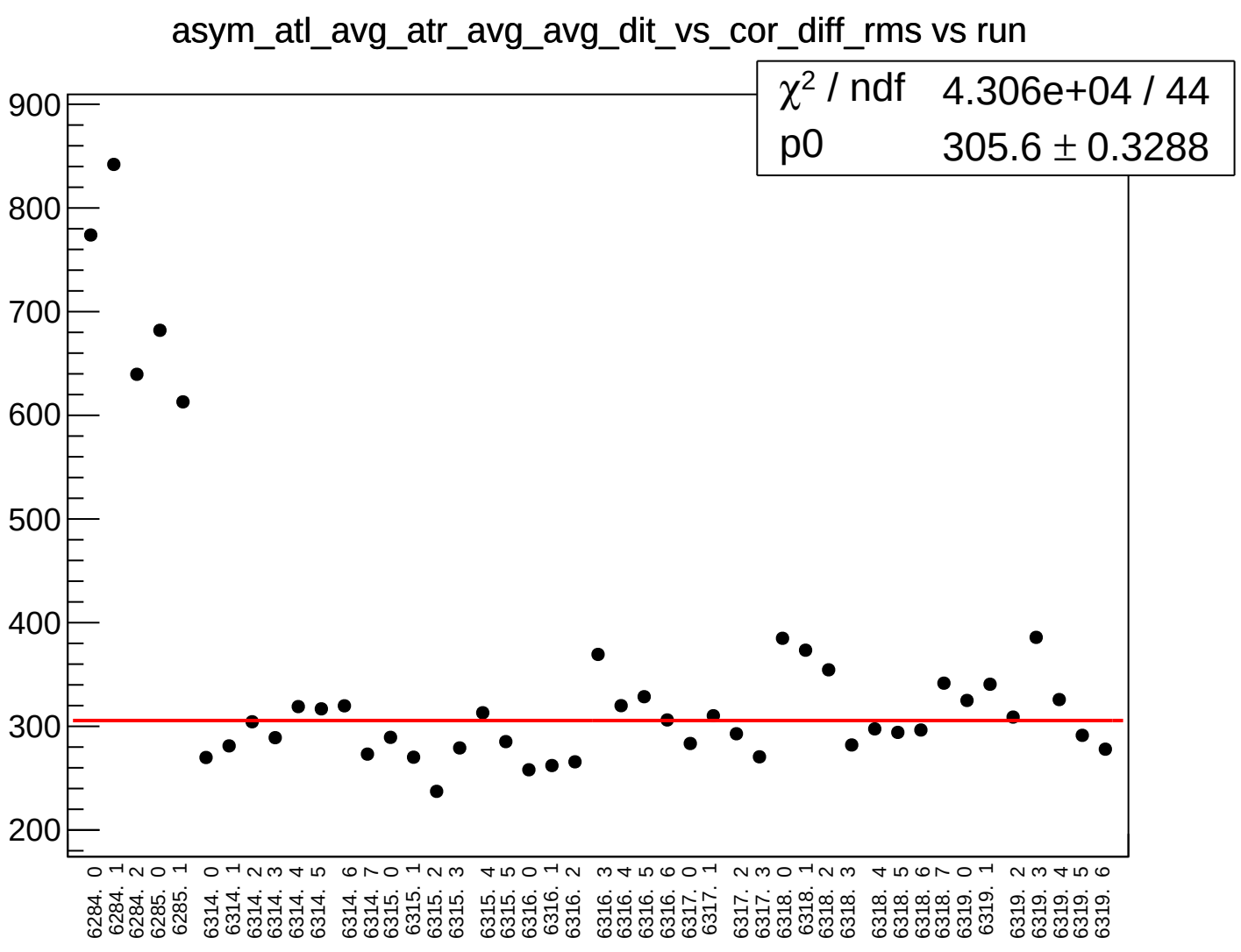

pull1D
Entries 45
Mean −0.001536
Std Dev 0.9783
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

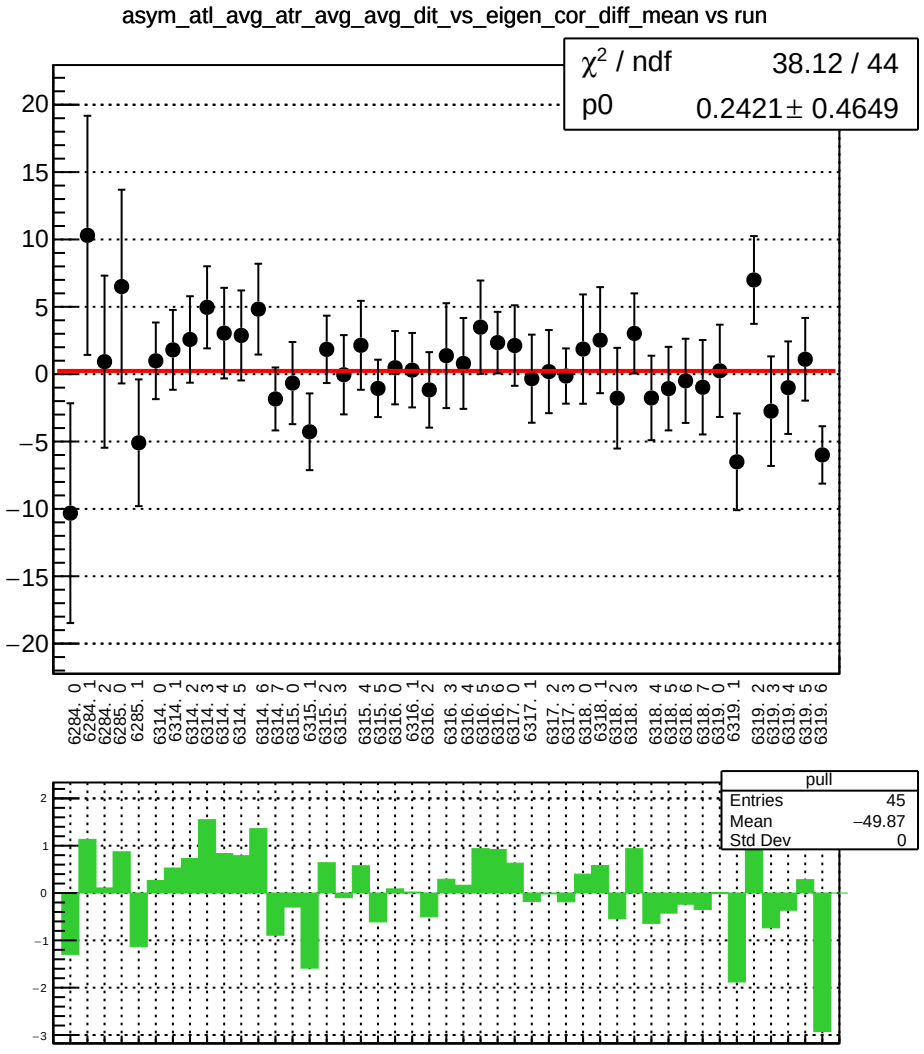

asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 1.041e+04 / 44
p0 6008 ± 6.344
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

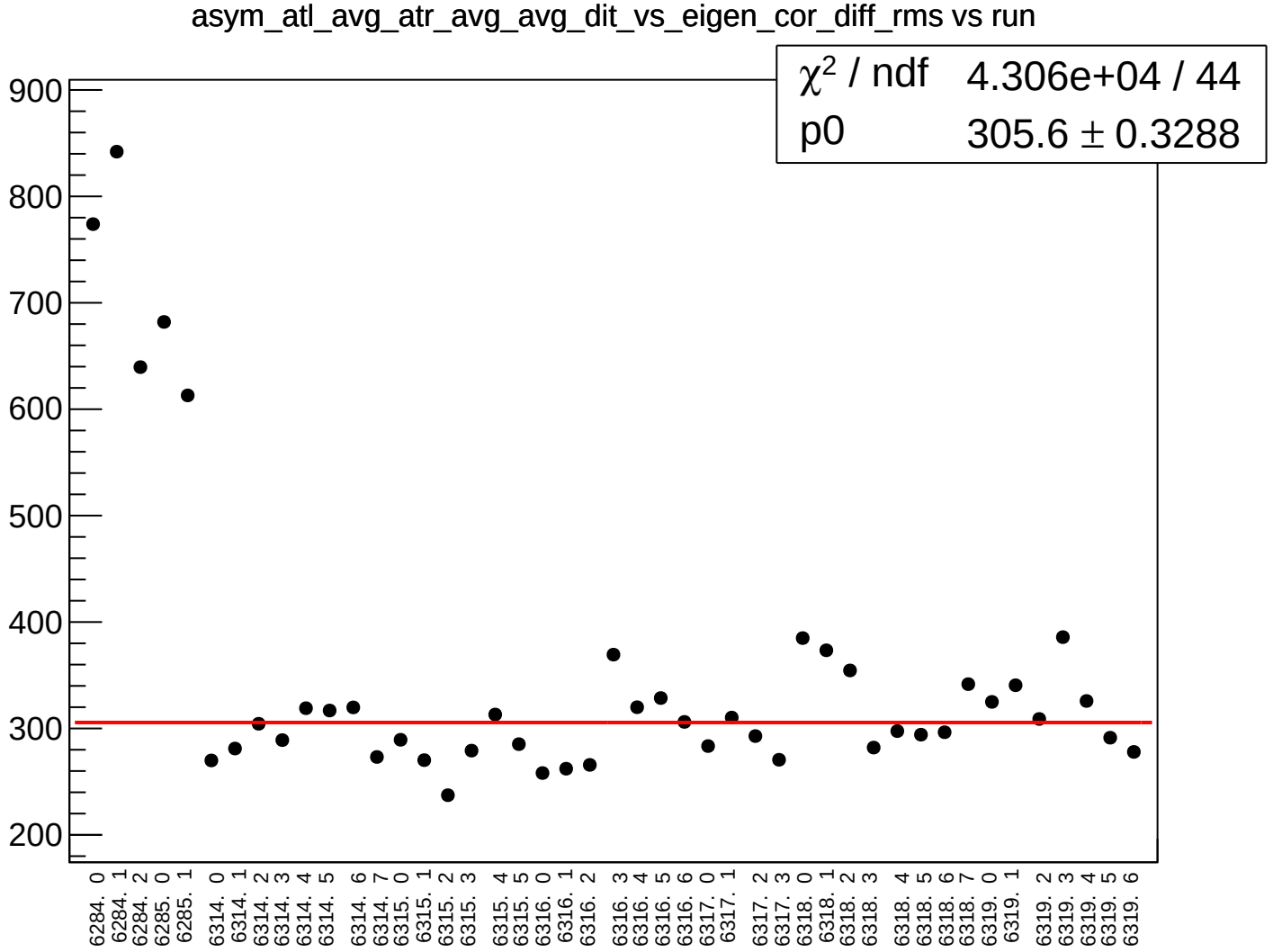

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.65 / 44
p0 3.749e−13 ± 1.082e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 213.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.009916
Std Dev 0.7549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

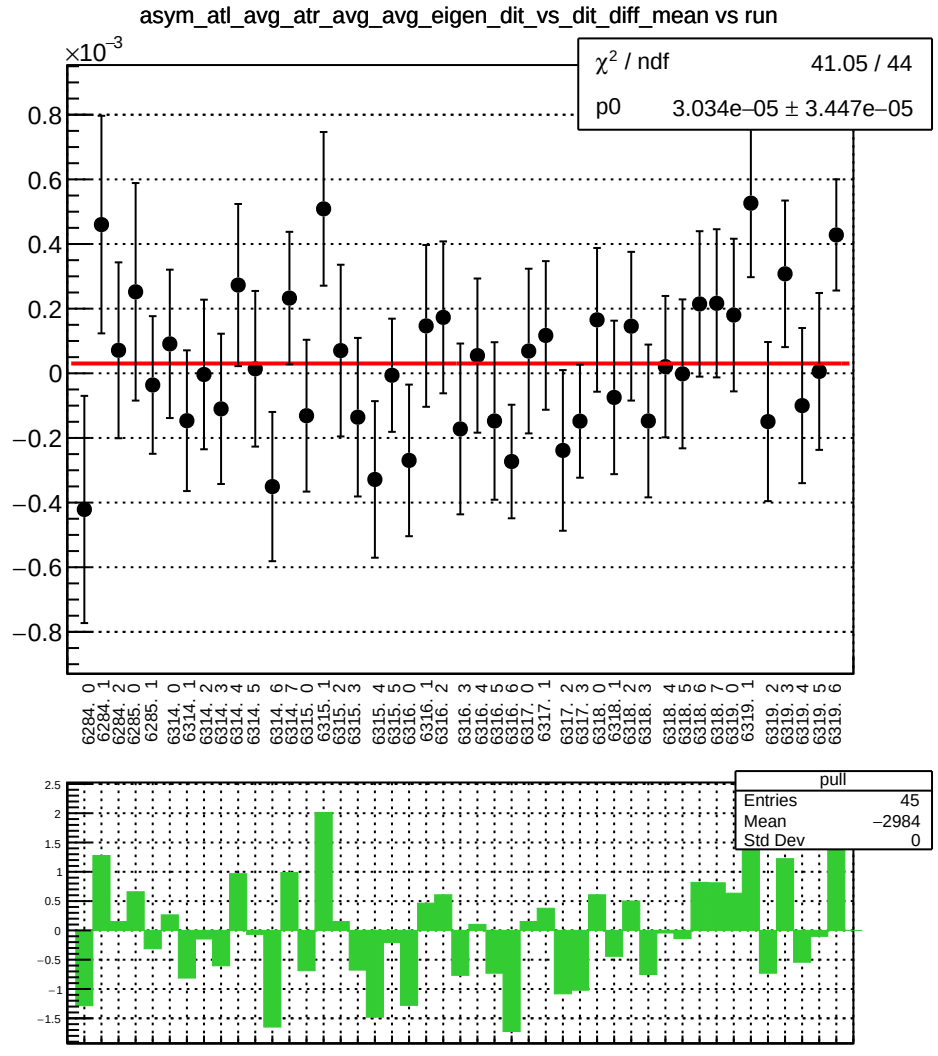

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.785e+05 / 44
p0 5.011e−10 ± 7.654e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

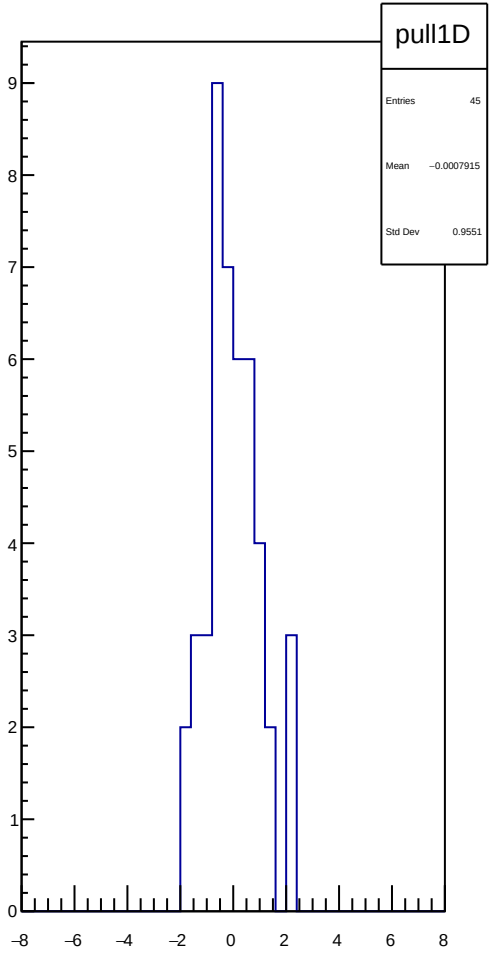

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.12 / 44
p0 0.2421 ± 0.4649
pull
Entries 45
Mean −49.87
Std Dev 0
pull1D
Entries 45
Mean 0.0405
Std Dev 0.9195

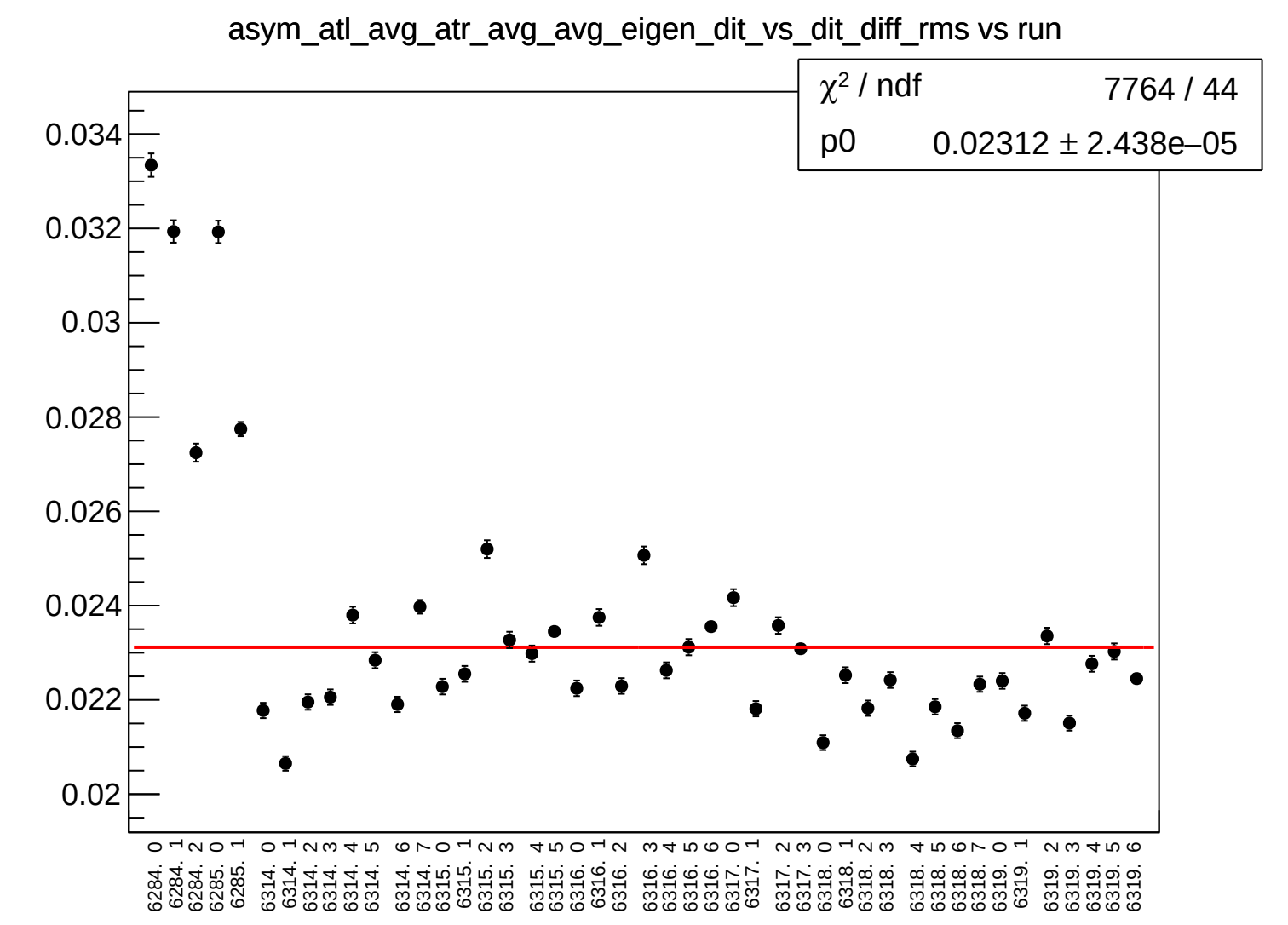

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.306e+04 / 44
p0 305.6 ± 0.3288
900
800
700
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

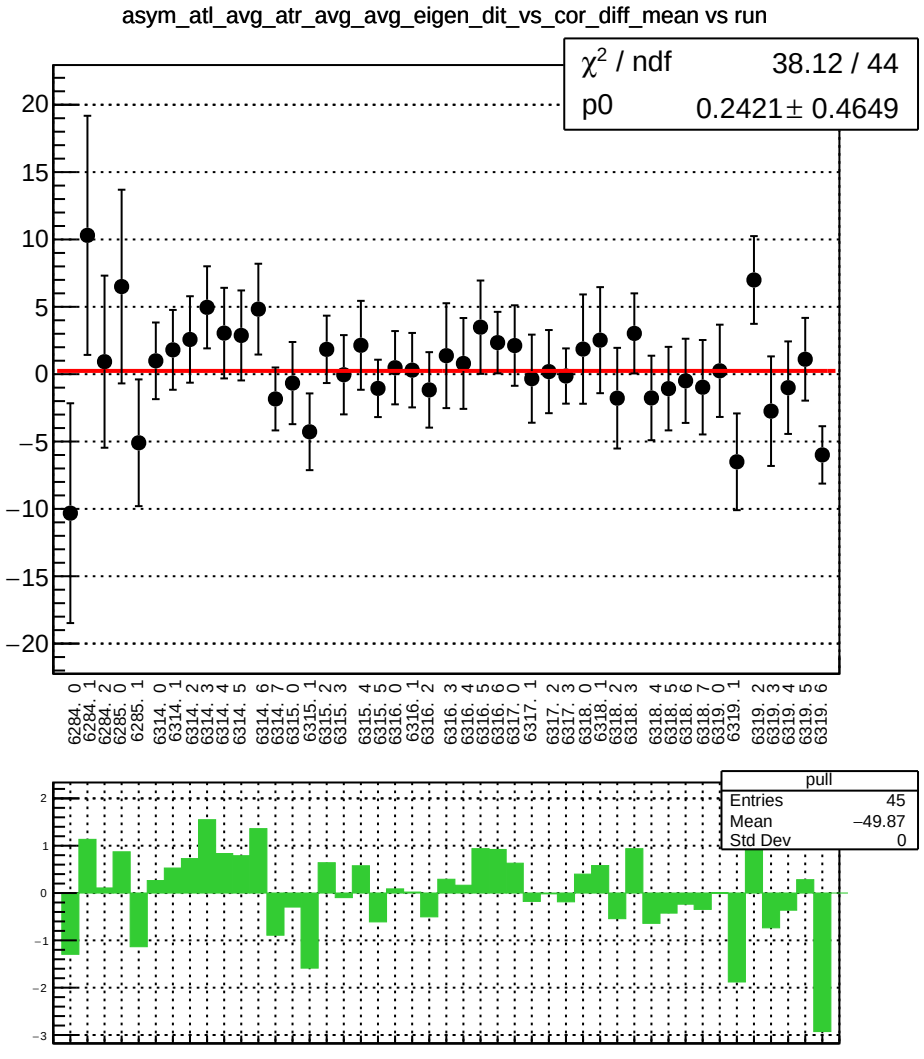

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.12 / 44
p0 0.2421± 0.4649
pull
Entries 45
Mean −49.87
Std Dev 0
pull1D
Entries 45
Mean 0.0405
Std Dev 0.9195

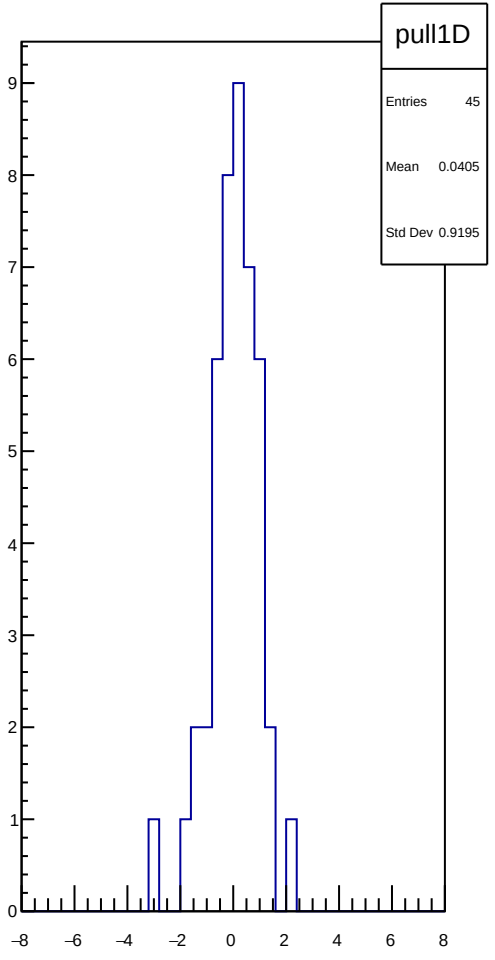

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.306e+04 / 44
p0 305.6 ± 0.3288
900
800
700
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

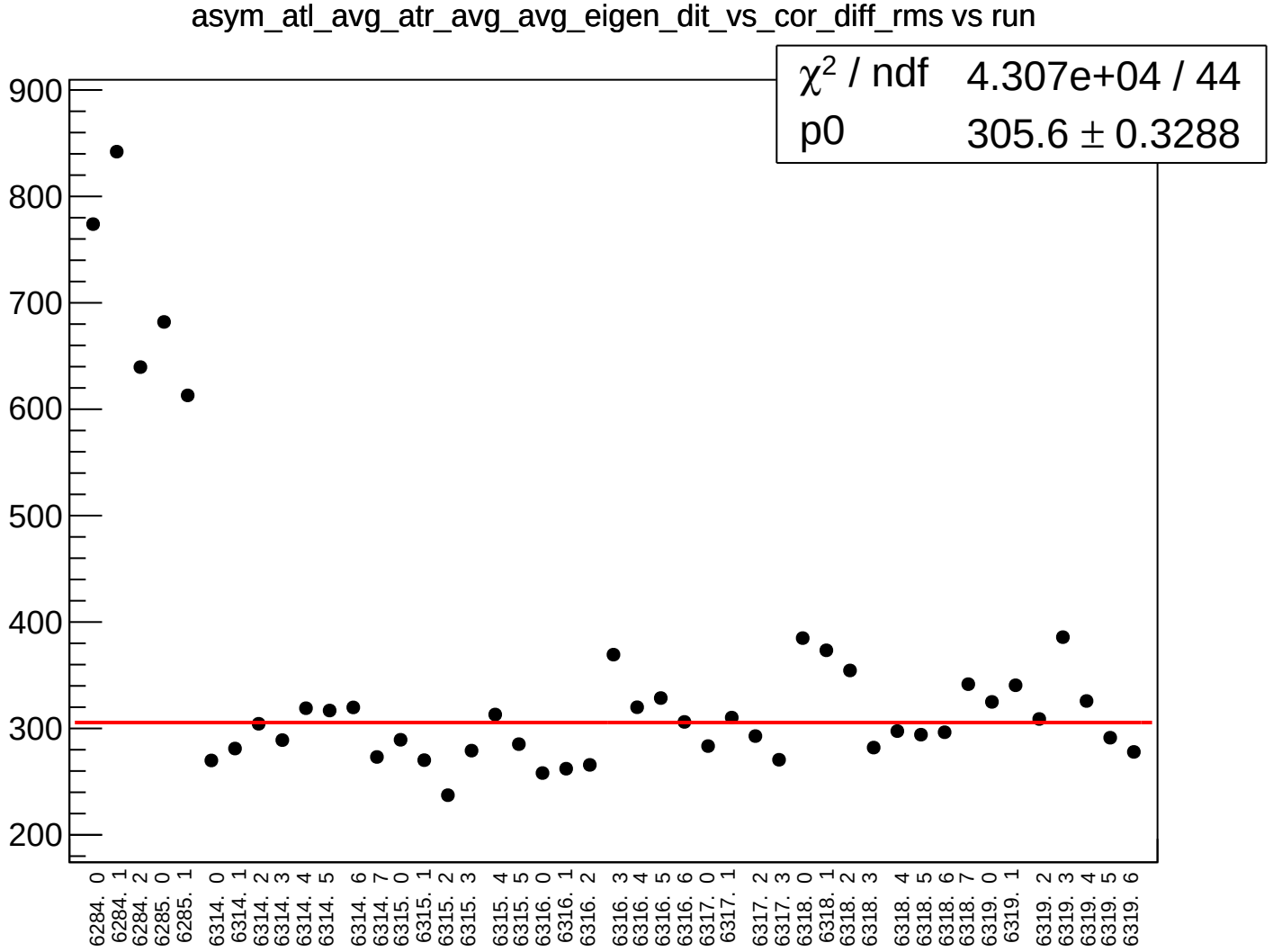

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.05 / 44
p0 3.034e−05 ± 3.447e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2984
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

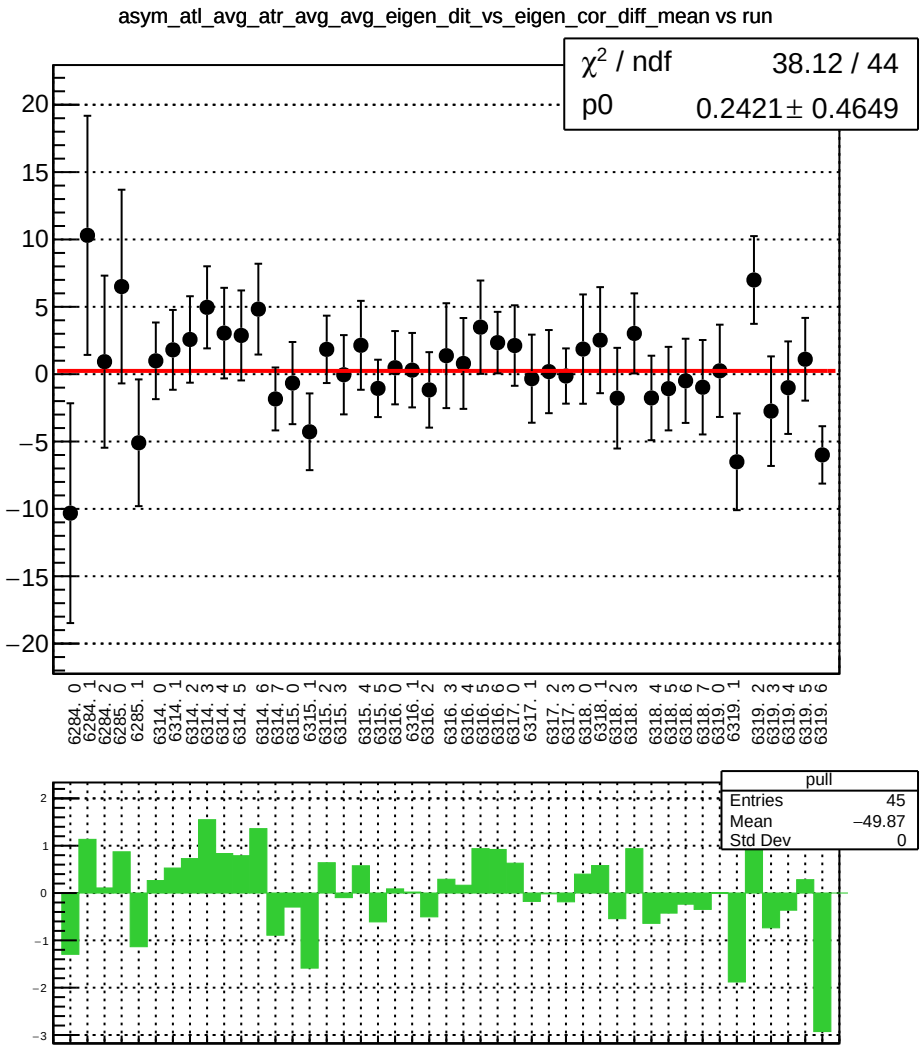

pull1D
Entries 45
Mean −0.0007915
Std Dev 0.9551
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

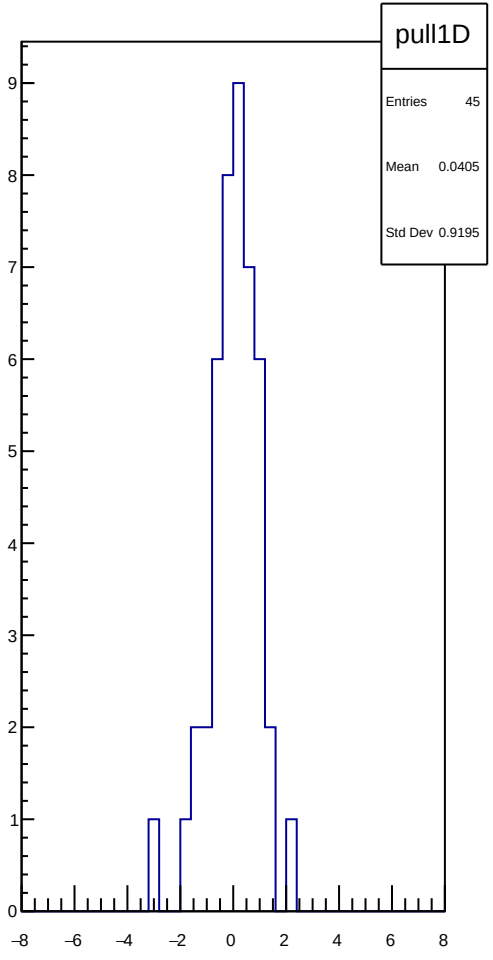

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7764 / 44
p0 0.02312 ± 2.438e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

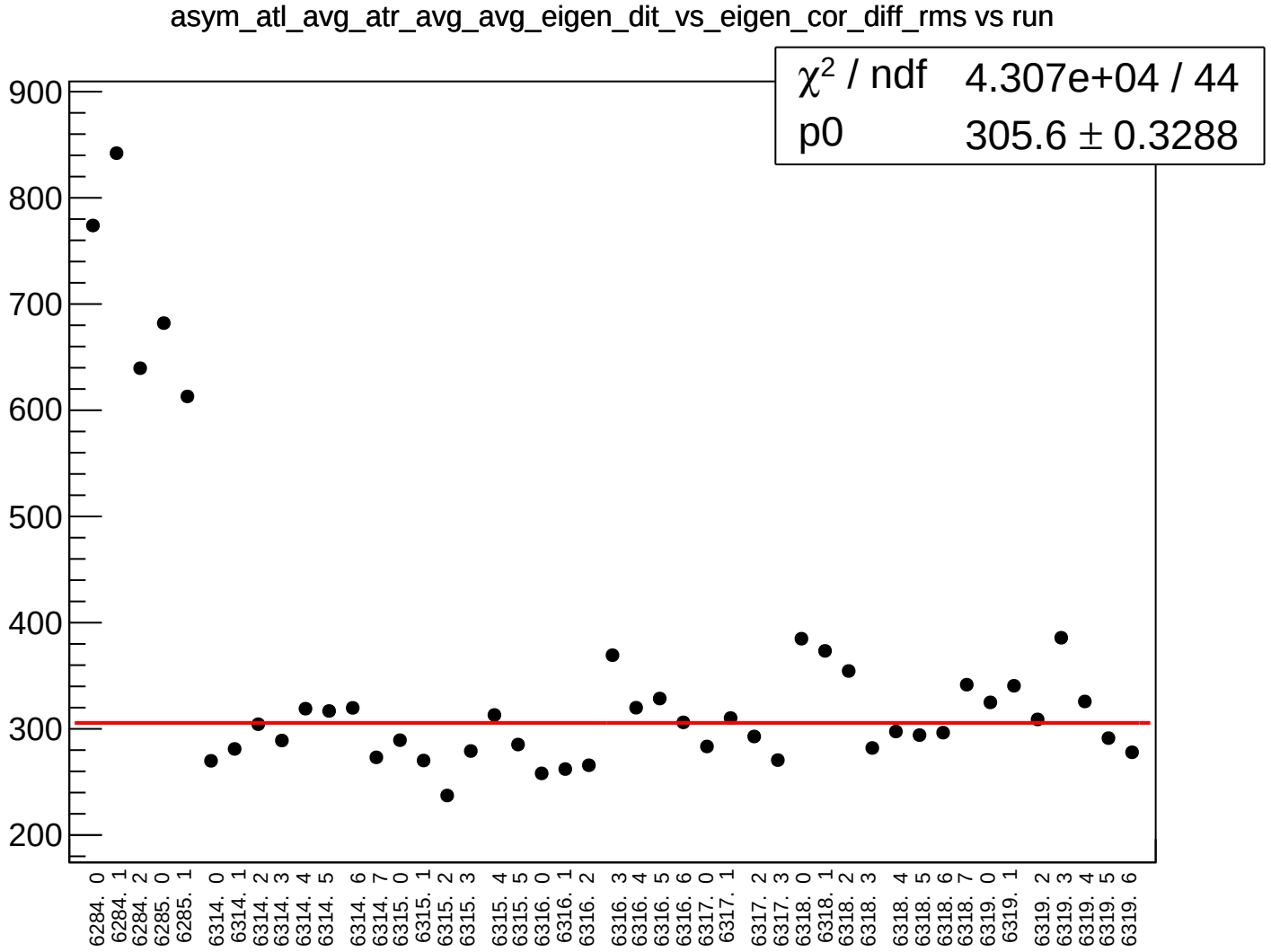

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.12 / 44
p0 0.2421± 0.4649
pull
Entries 45
Mean −49.87
Std Dev 0

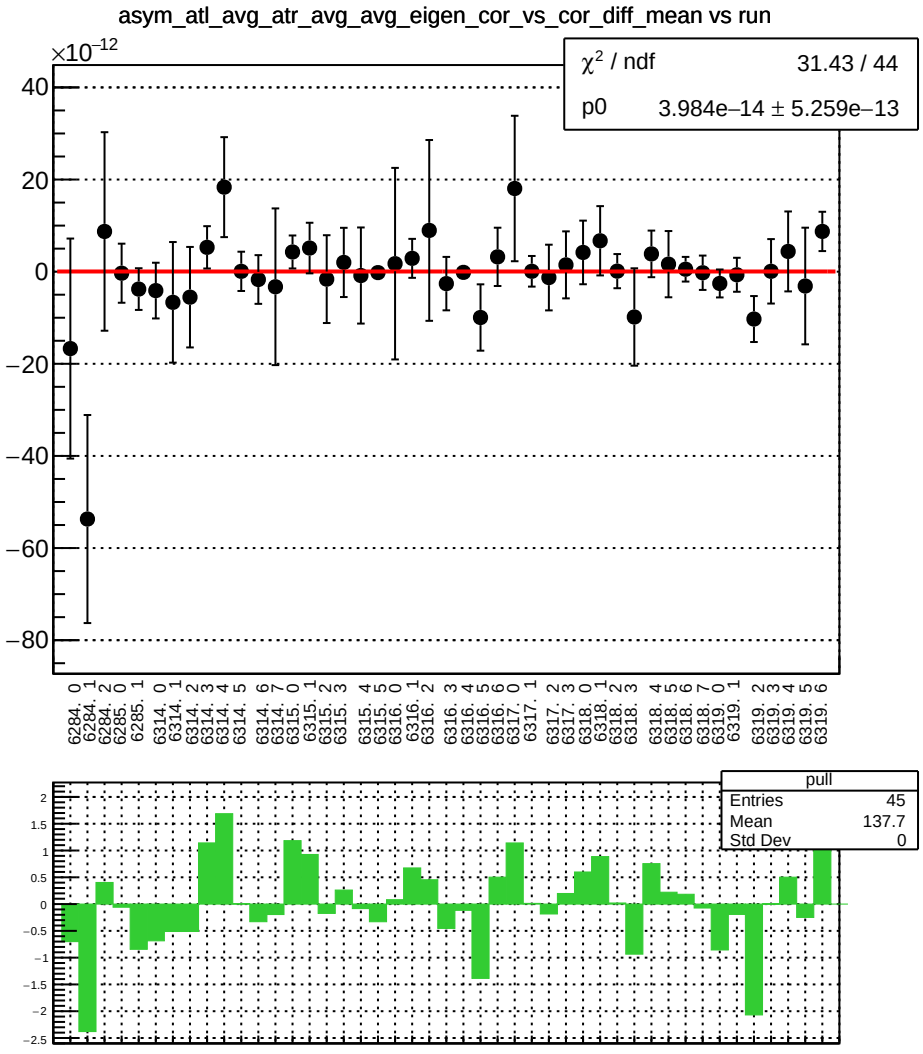

pull1D
Entries 45
Mean 0.0405
Std Dev 0.9195

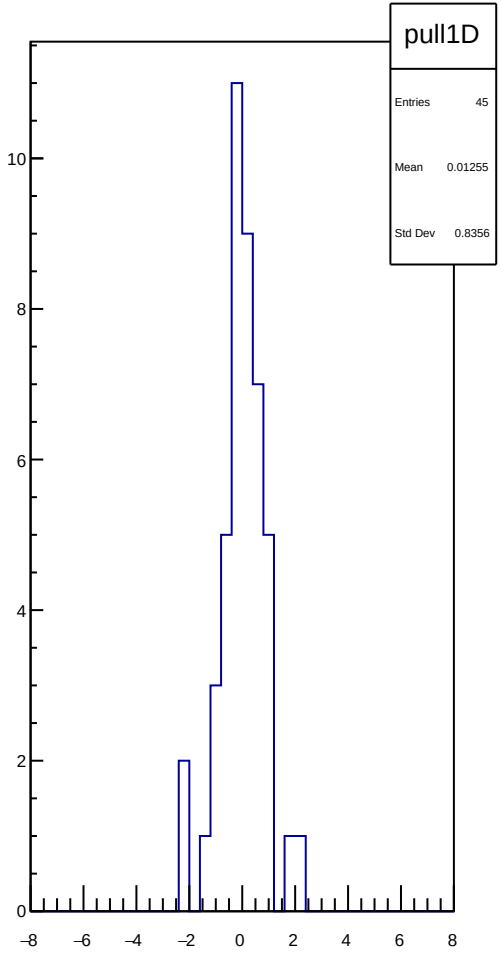

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.307e+04 / 44
p0 305.6 ± 0.3288
900
800
700
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

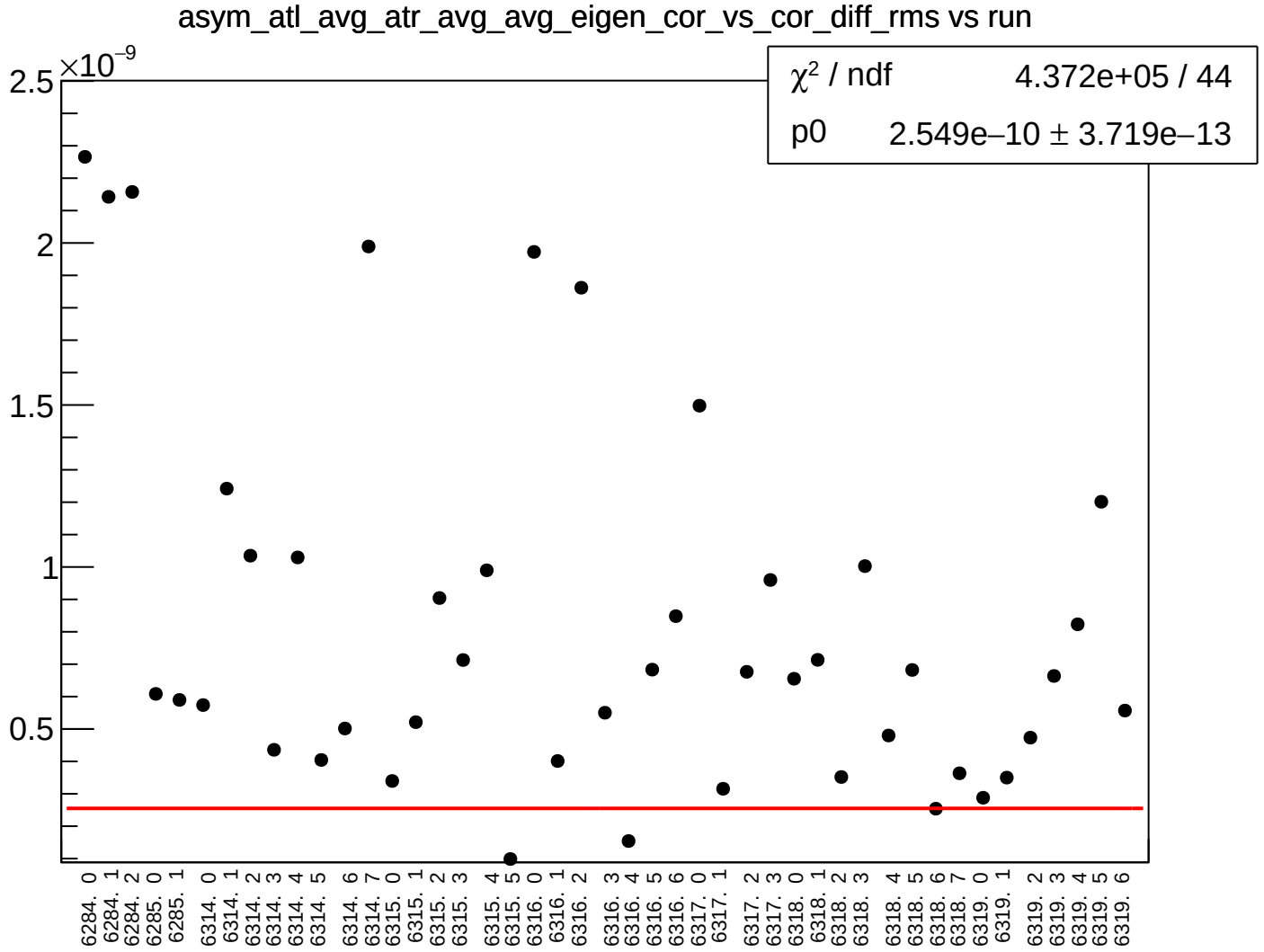

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.12 / 44
p0 0.2421 ± 0.4649
pull
Entries 45
Mean −49.87
Std Dev 0

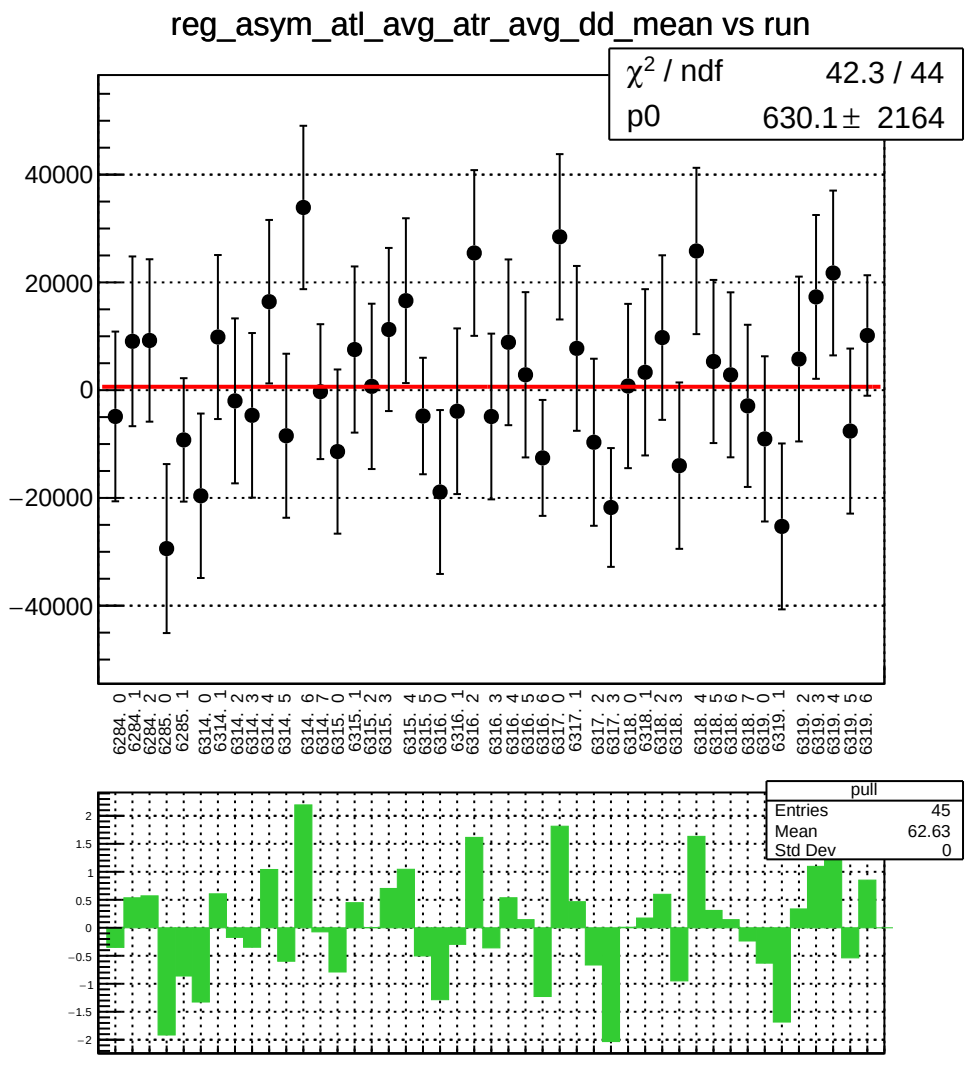

pull1D
Entries 45
Mean 0.0405
Std Dev 0.9195

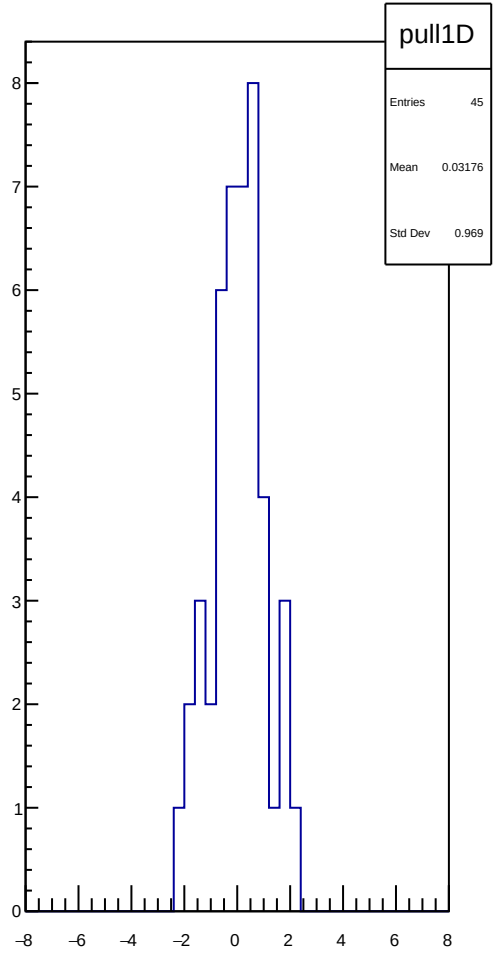

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.307e+04 / 44
p0 305.6 ± 0.3288
900
800
700
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

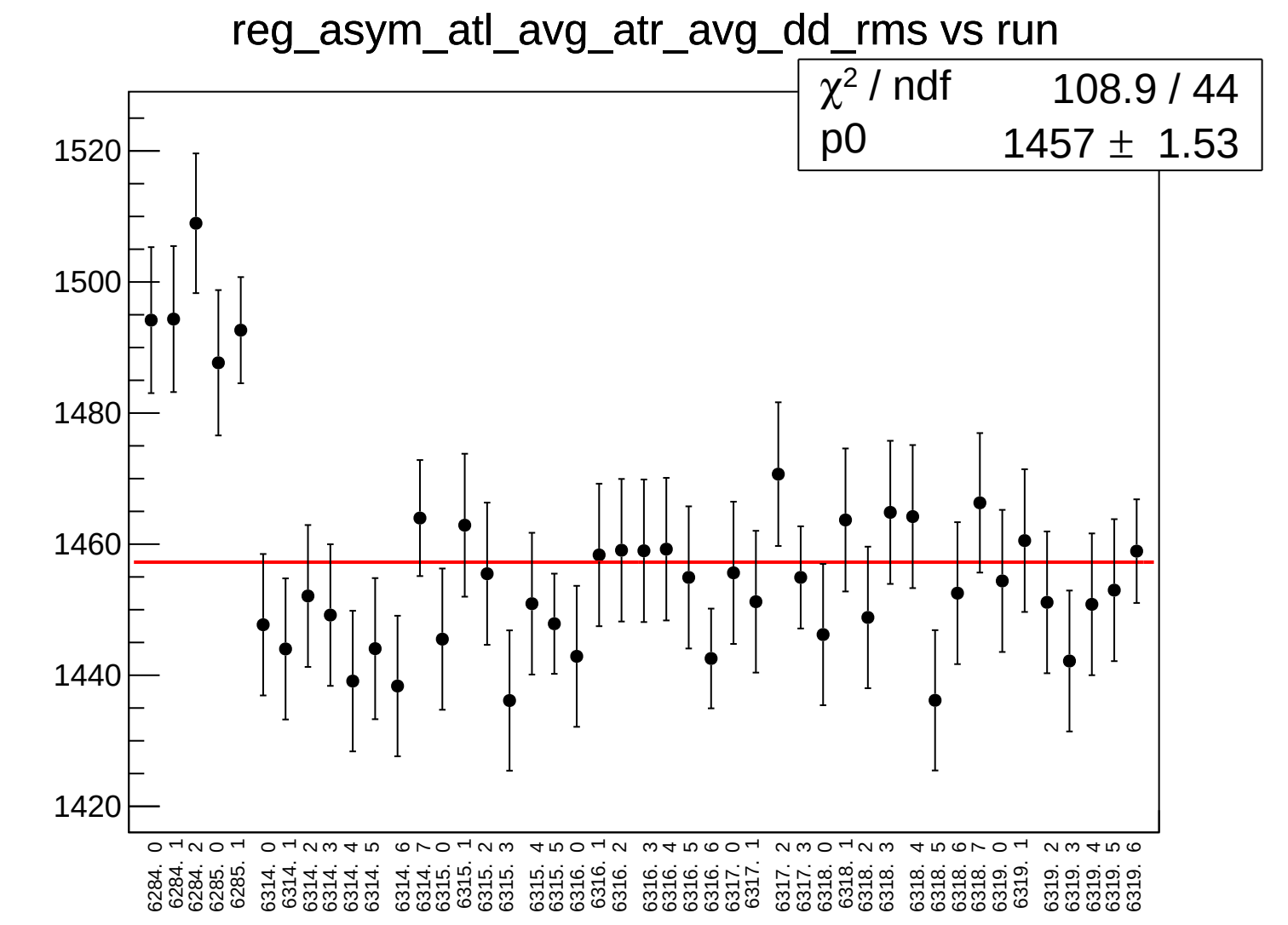

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.43 / 44
p0 3.984e−14 ± 5.259e−13
pull
Entries 45
Mean 137.7
Std Dev 0

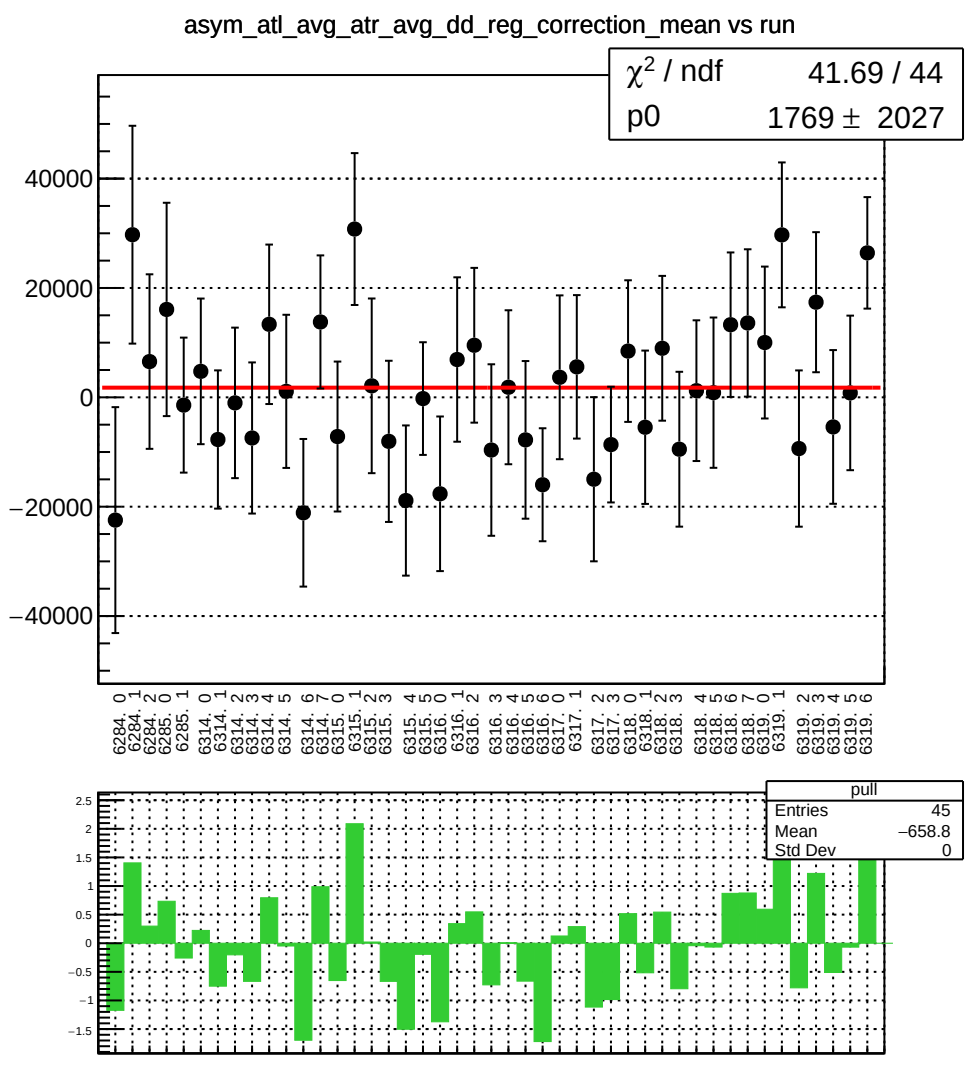

pull1D
Entries 45
Mean 0.01255
Std Dev 0.8356

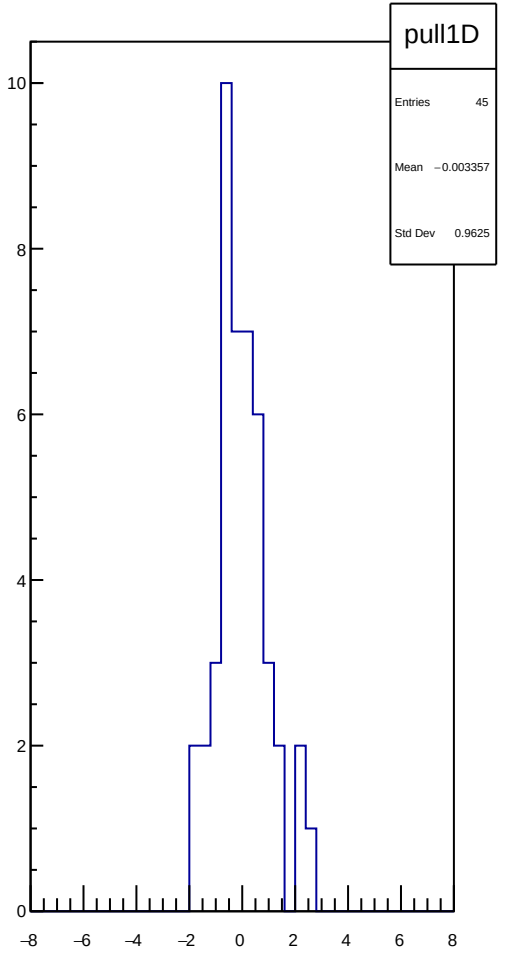

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 4.372e+05 / 44
p0 2.549e−10 ± 3.719e−13
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

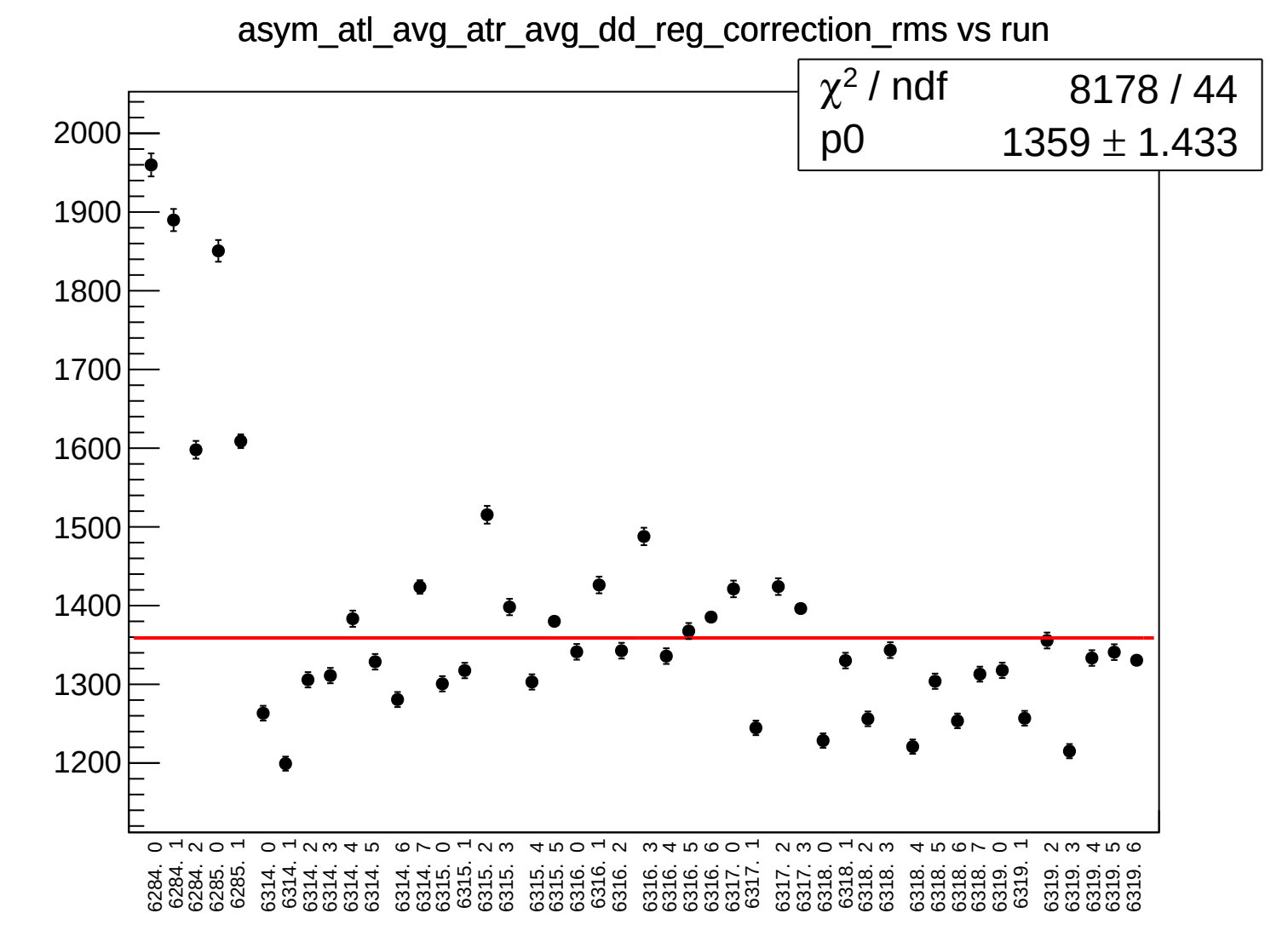

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 42.3 / 44
p0 630.1 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

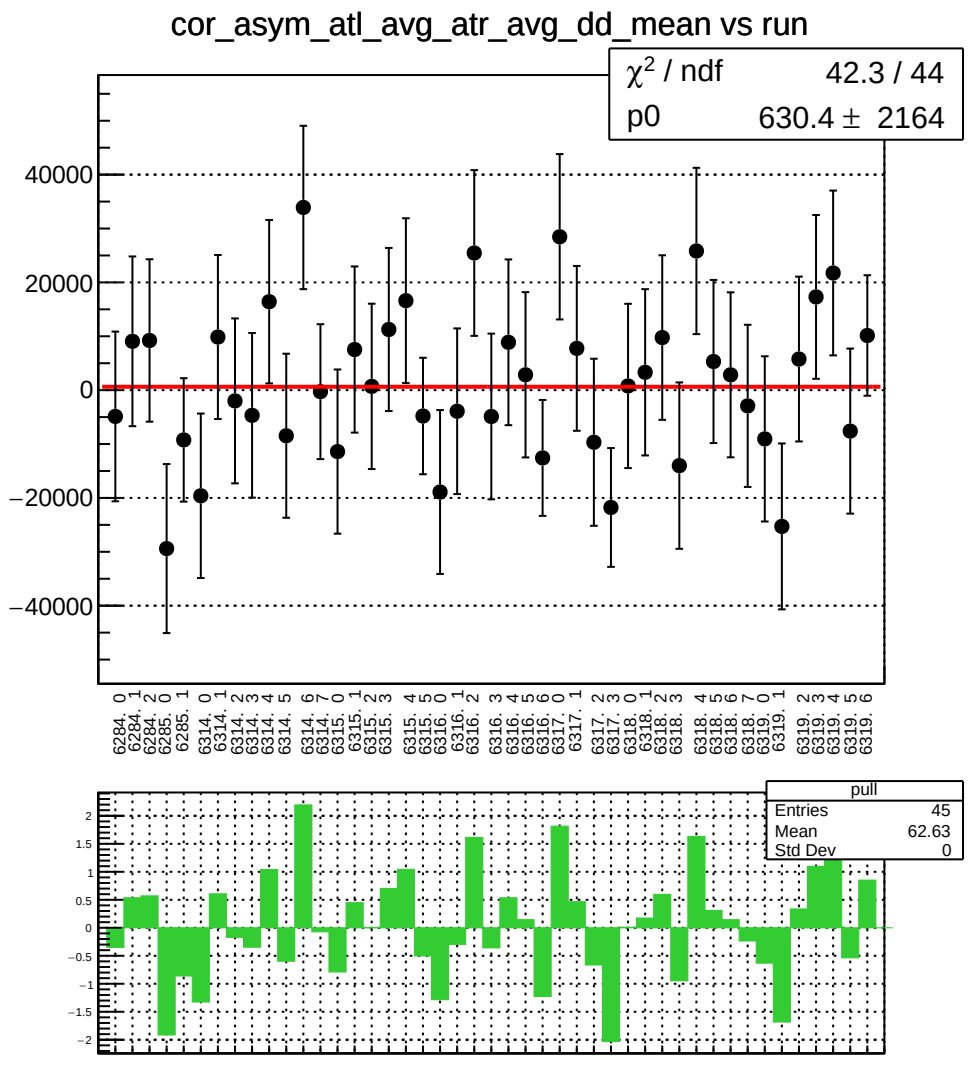

pull1D
Entries 45
Mean 0.03176
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

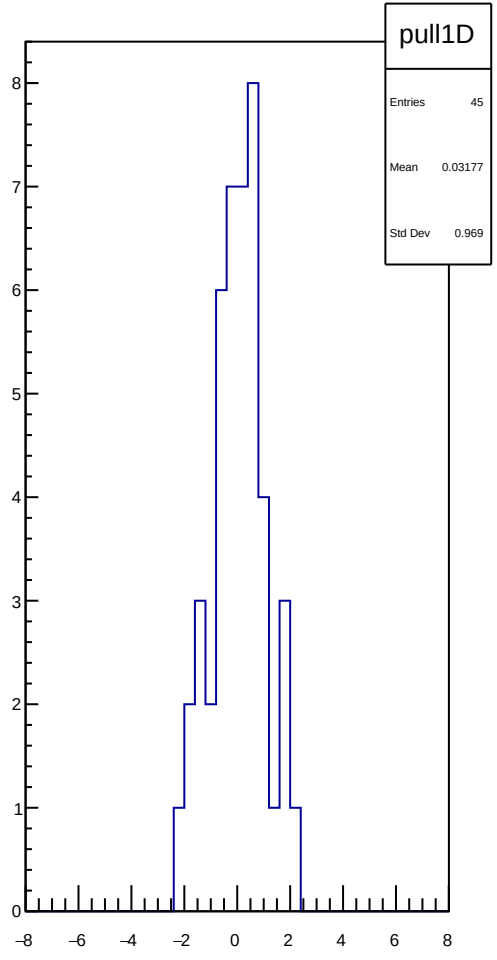

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

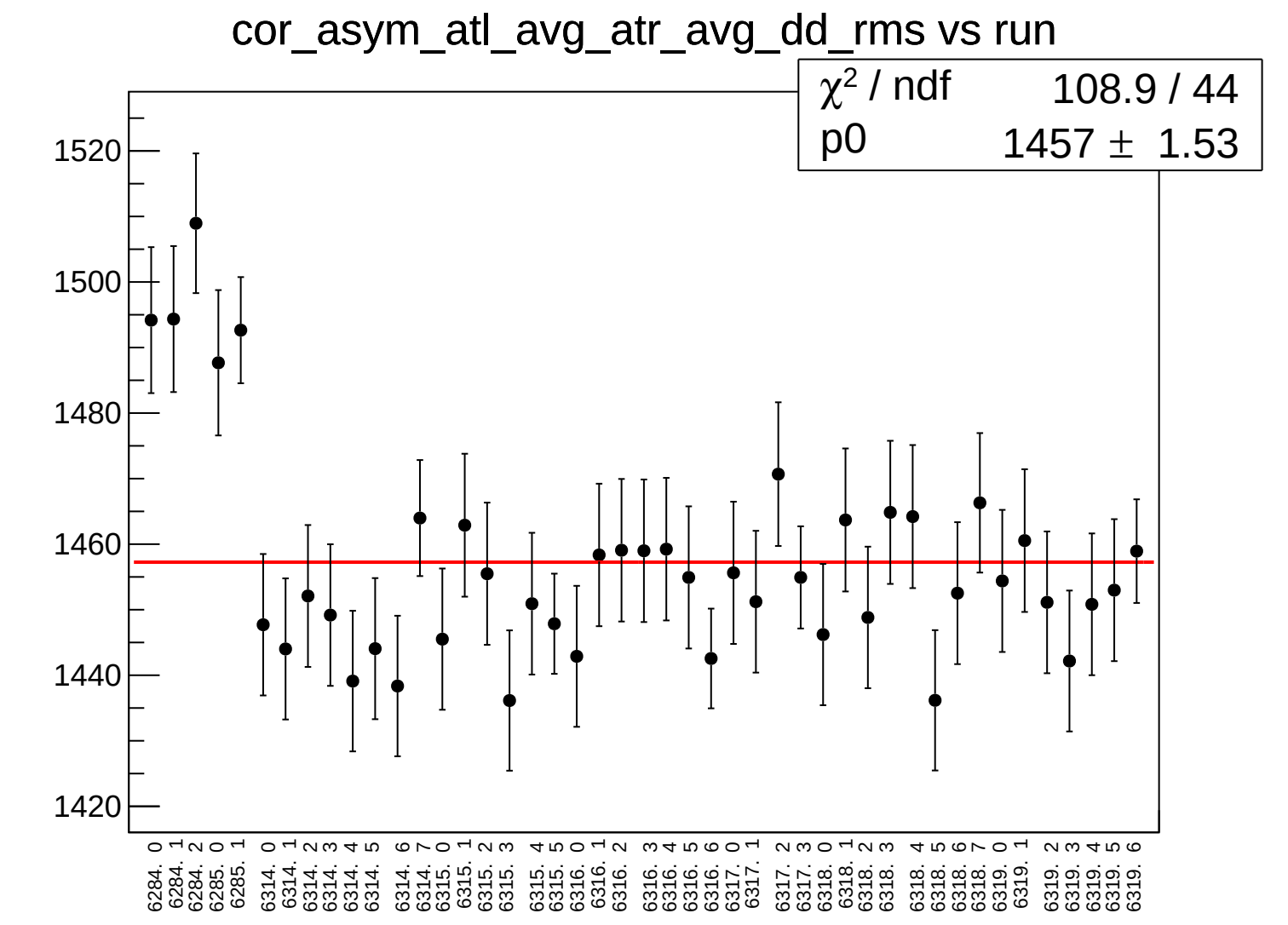

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 41.69 / 44
p0 1769 ± 2027
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −658.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.003357
Std Dev 0.9625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 8178 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 42.3 / 44
p0 630.4 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03177
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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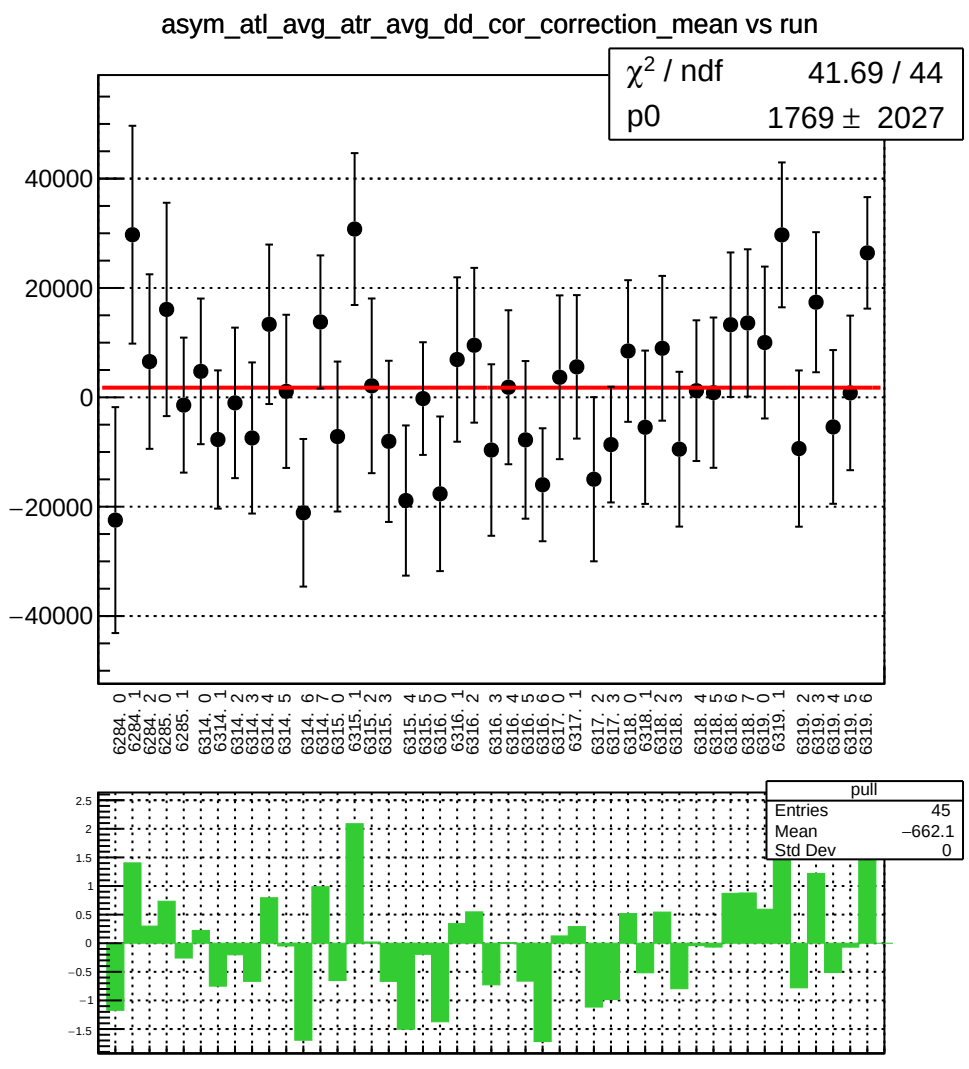
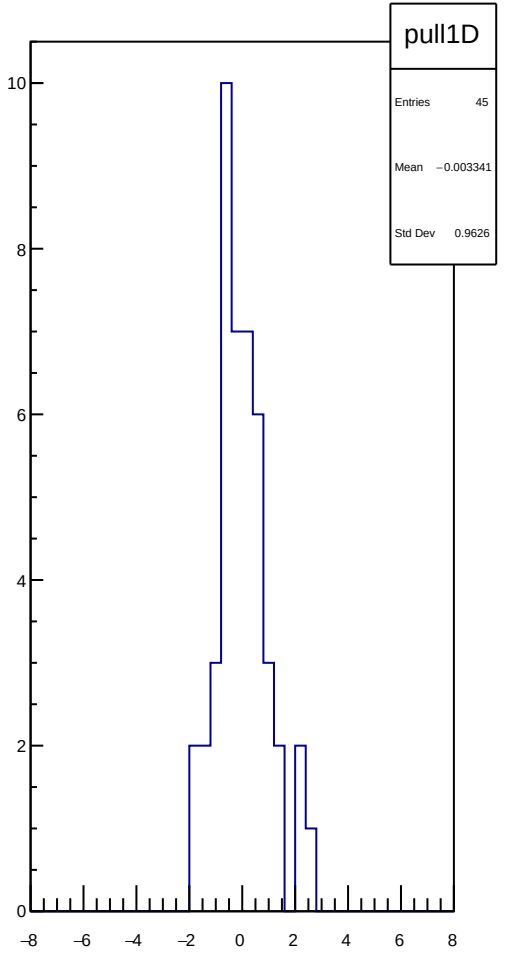
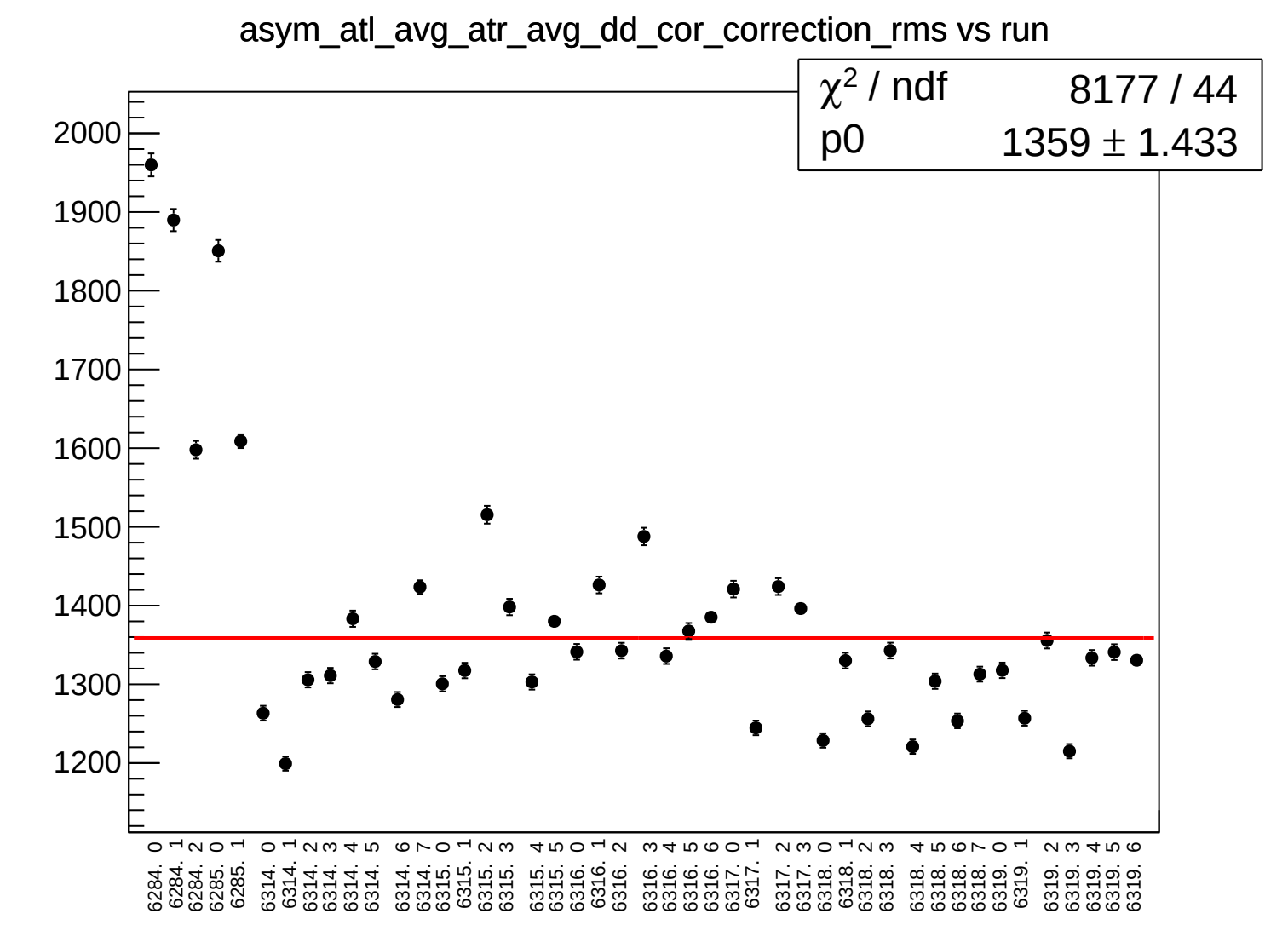
6319. 5
6319. 6


asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 41.69 / 44
p0 1769 ± 2027
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −662.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.003341
Std Dev 0.9626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 8177 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 1
6316. 2
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6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
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6318. 7
6319. 0
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6319. 2
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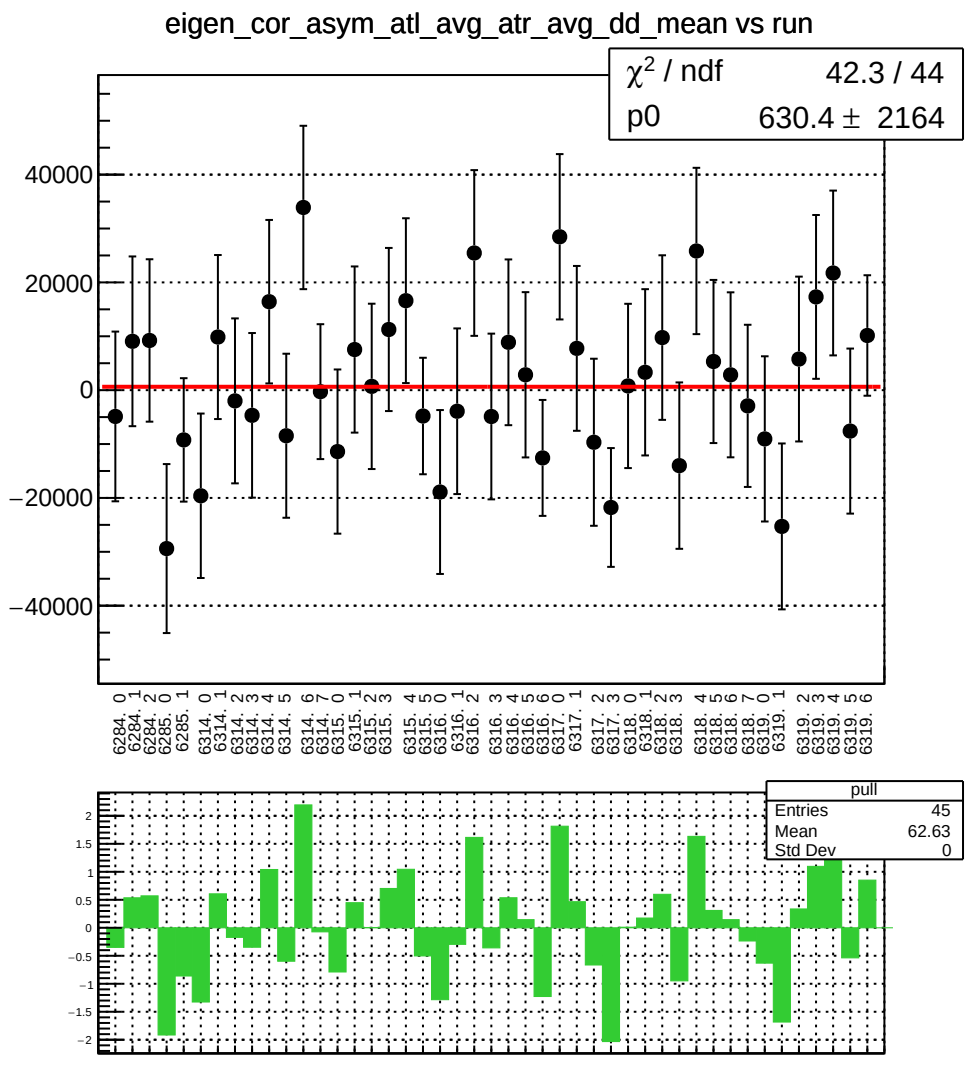
6319. 6


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 42.3 / 44
p0 630.4 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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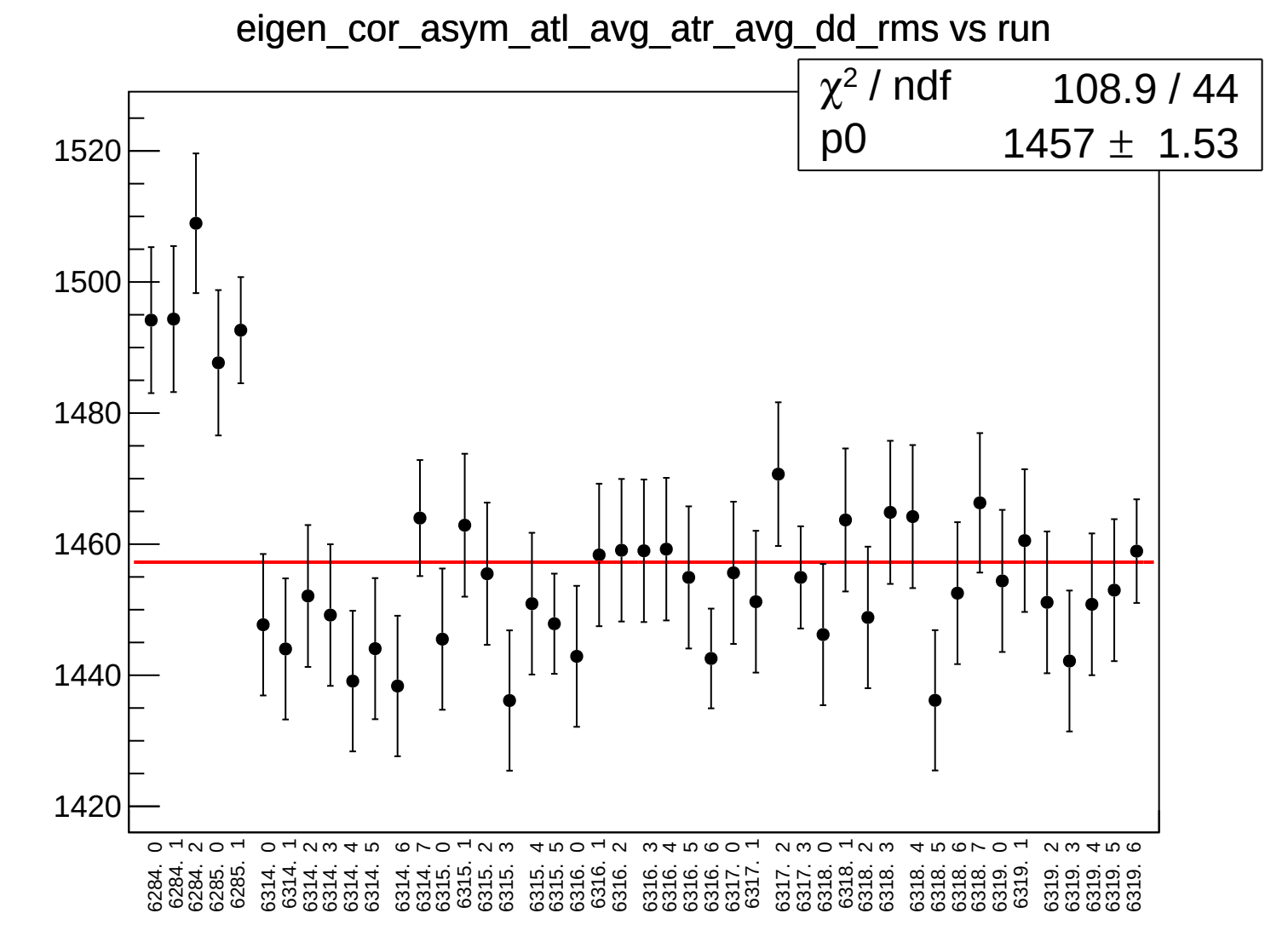
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03177
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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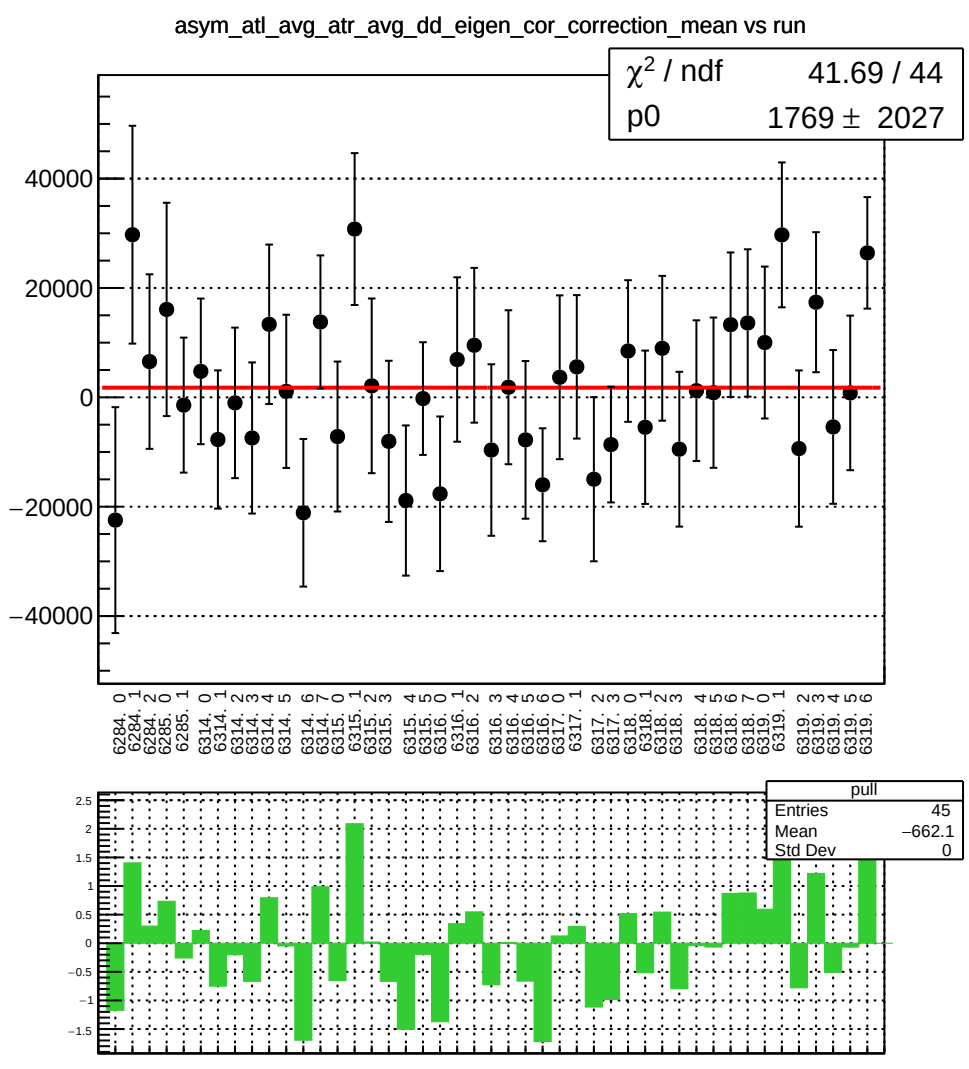
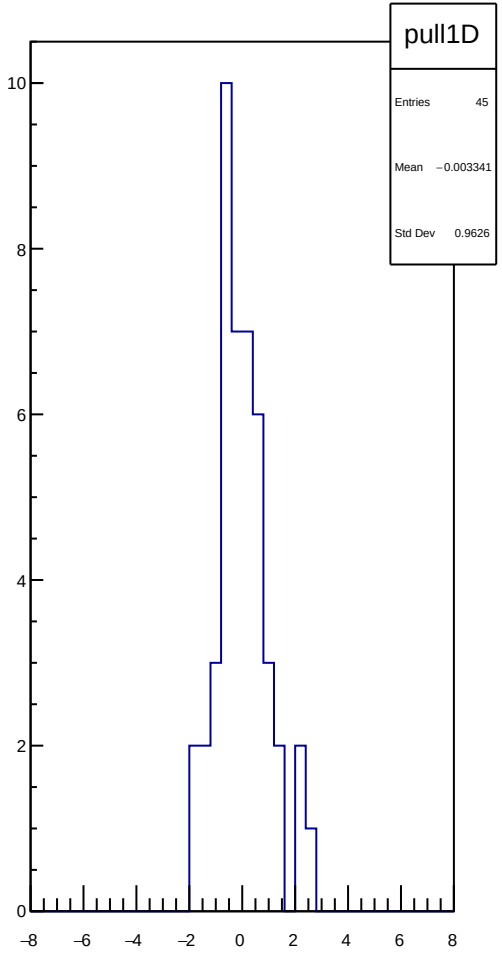
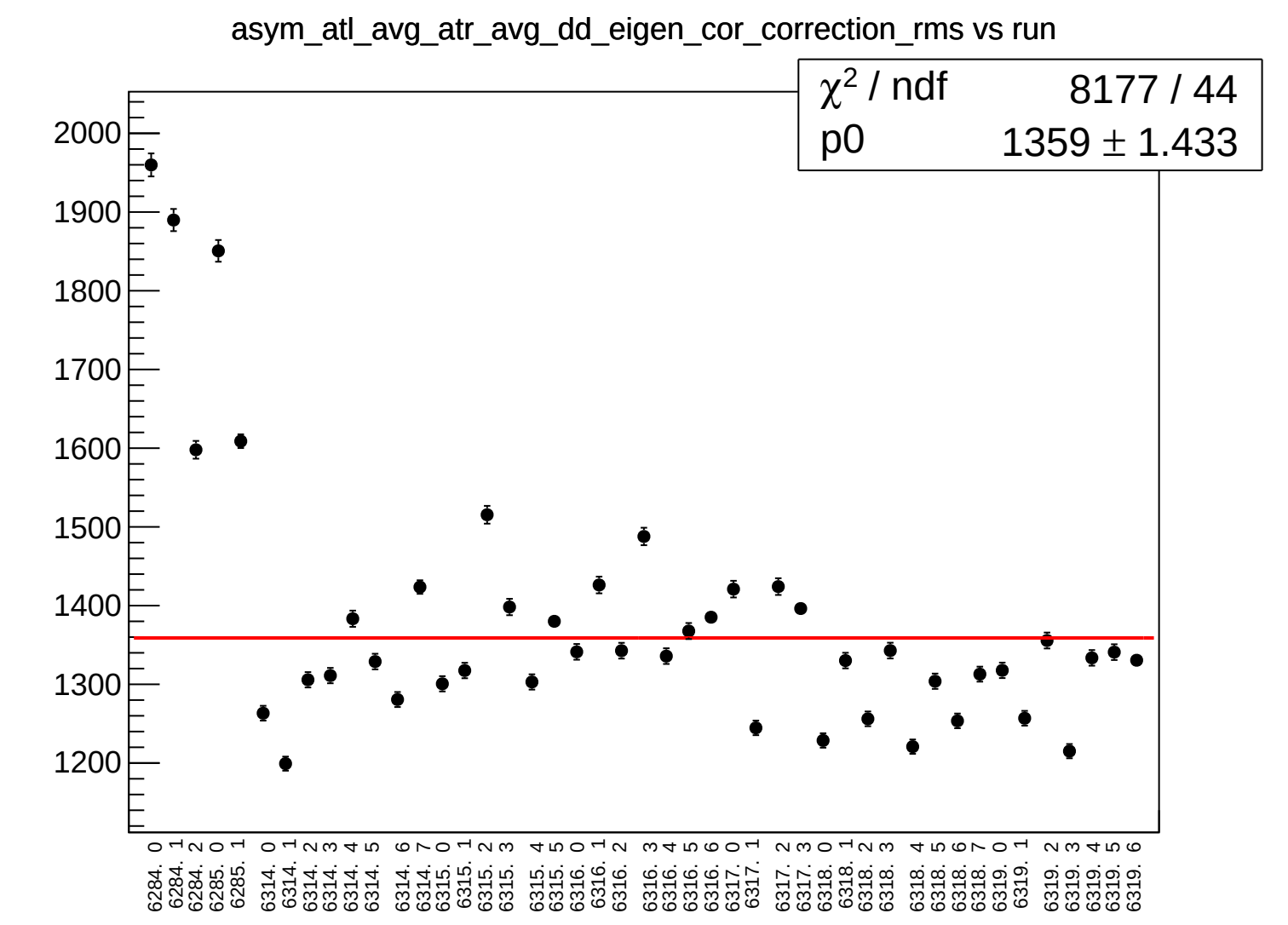
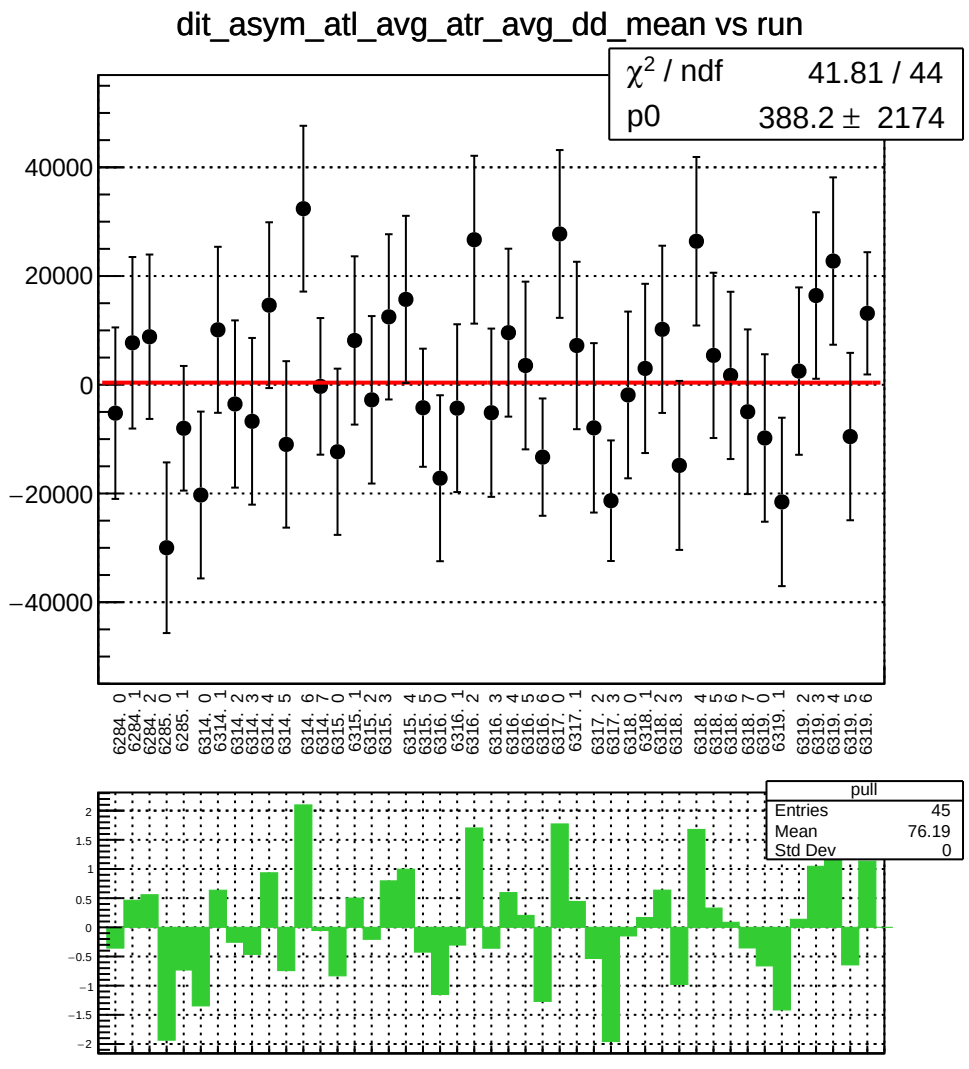
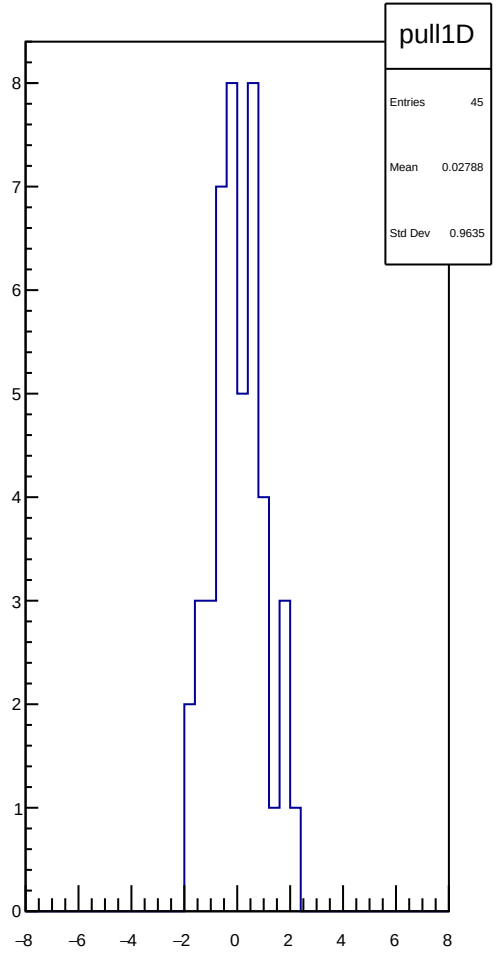
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

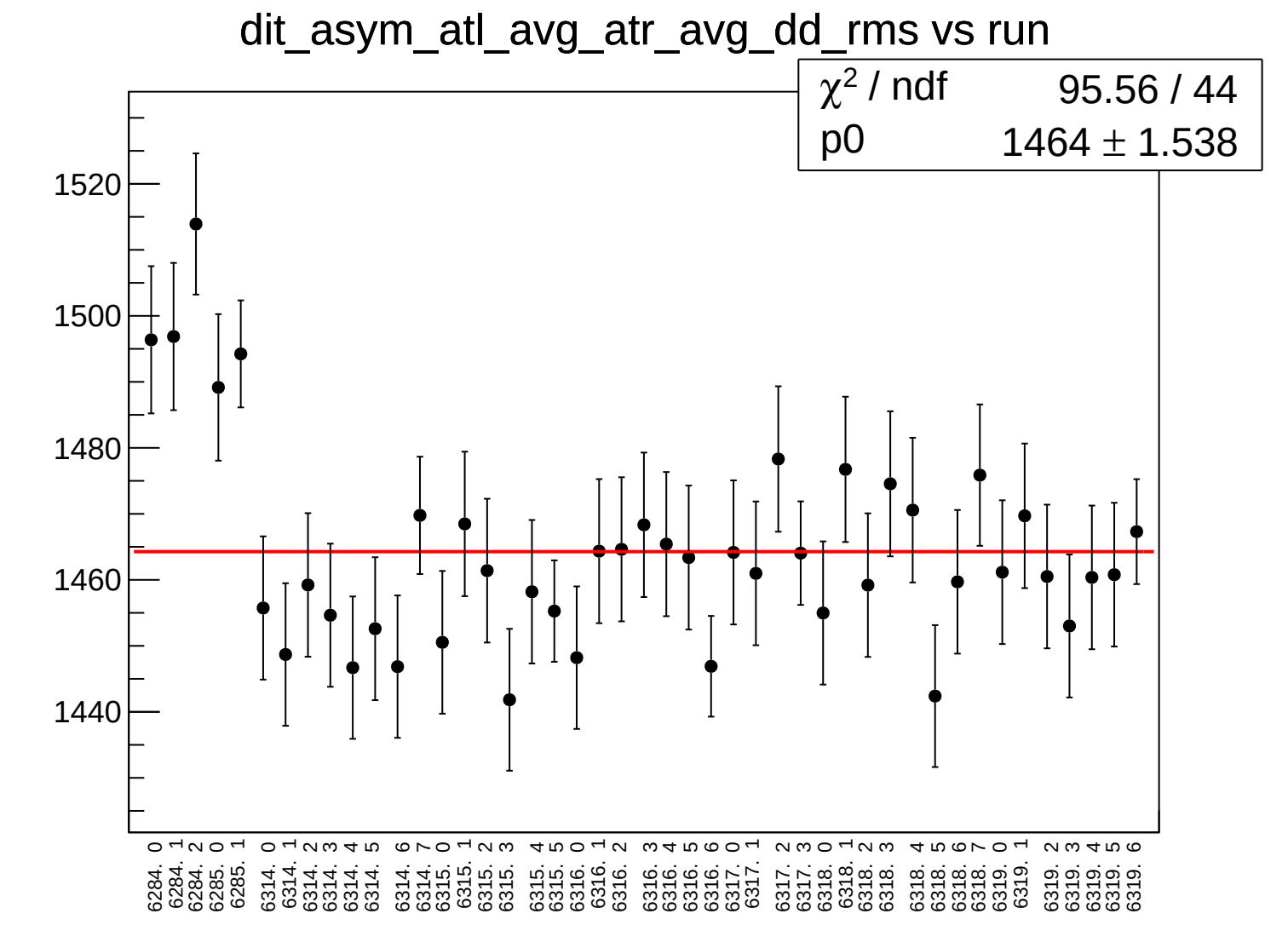

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.69 / 44
p0 1769 ± 2027
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −662.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

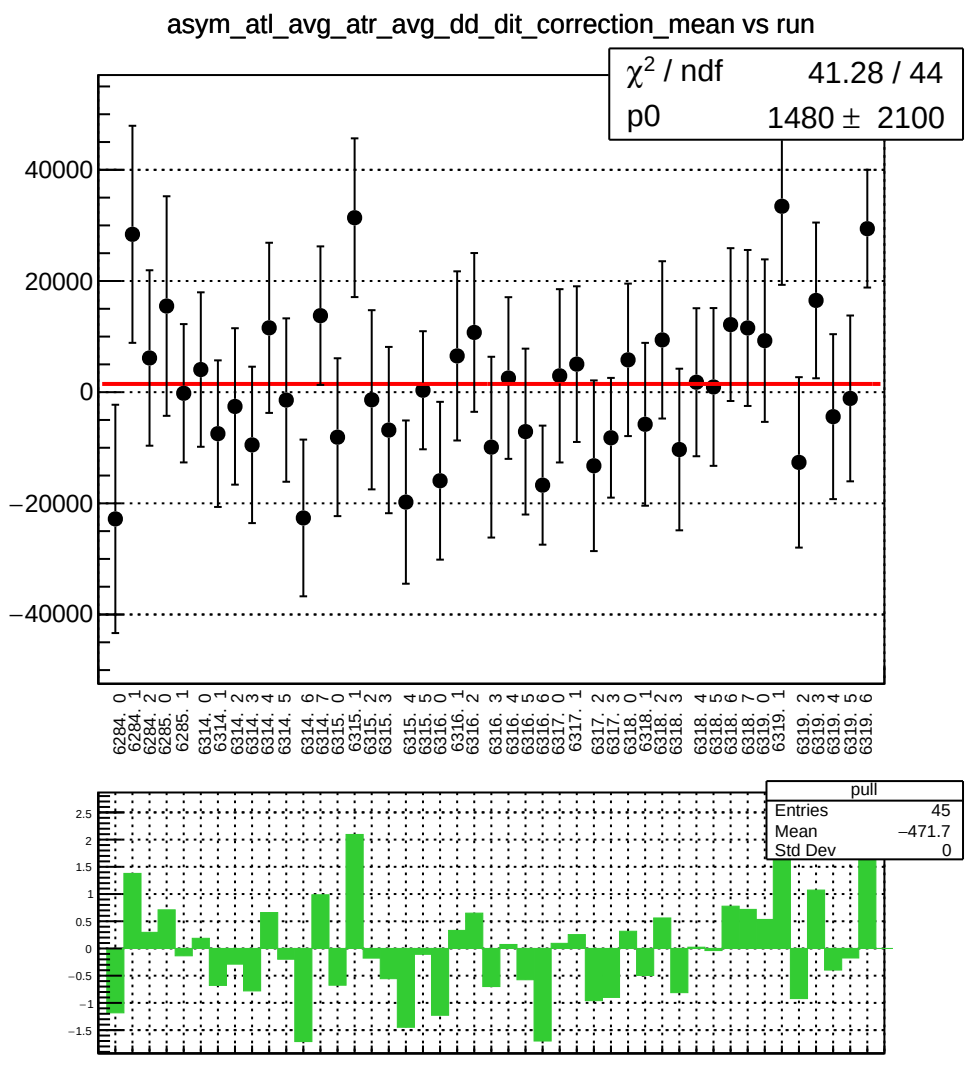

pull1D
Entries 45
Mean −0.003341
Std Dev 0.9626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

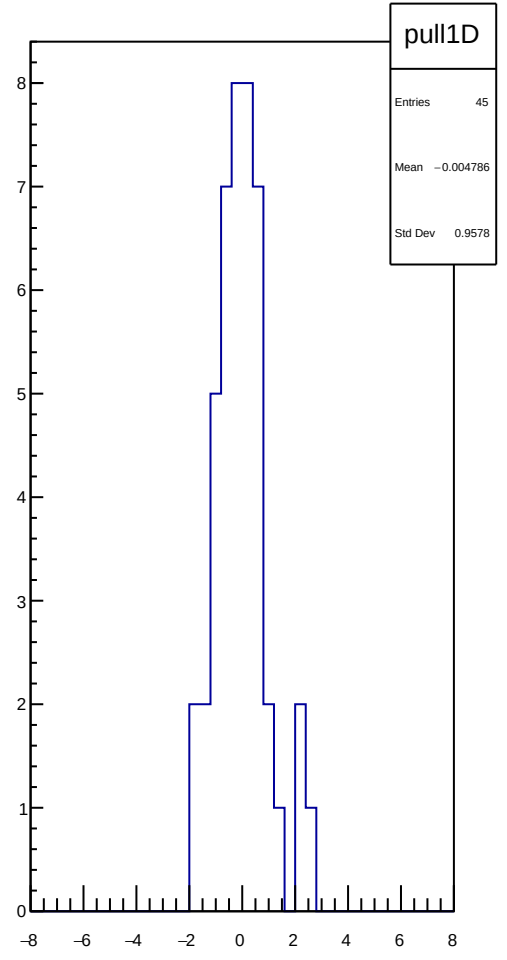

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8177 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

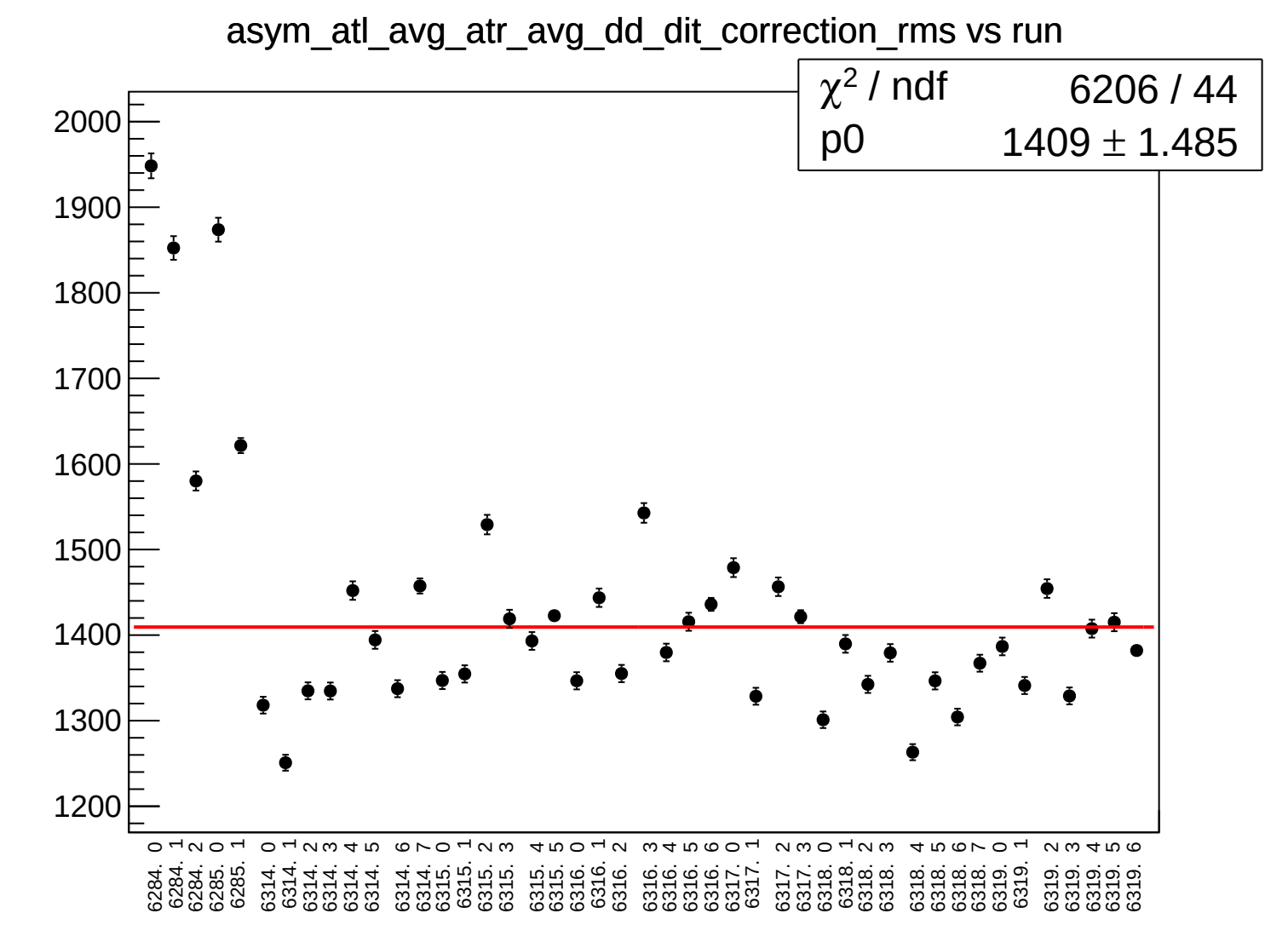

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.81 / 44
p0 388.2 ± 2174
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

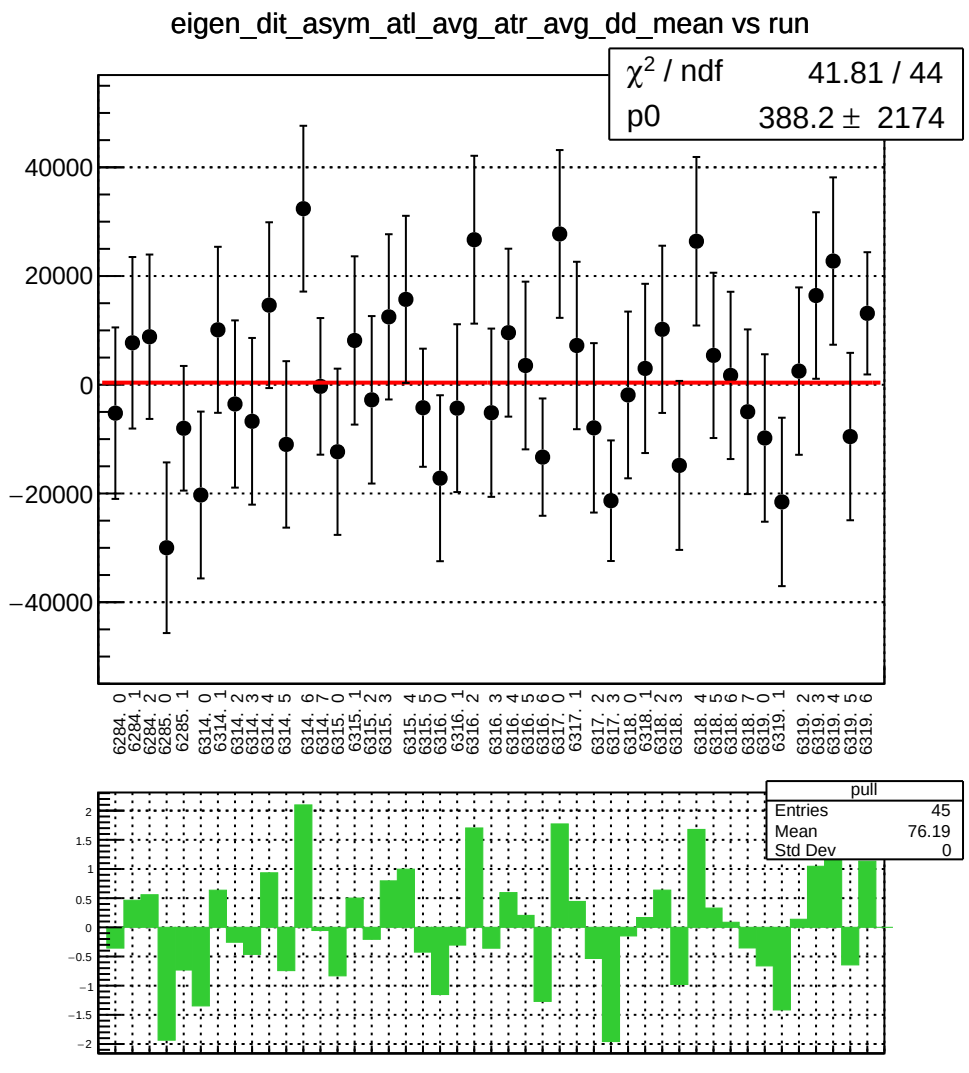

pull1D
Entries 45
Mean 0.02788
Std Dev 0.9635
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

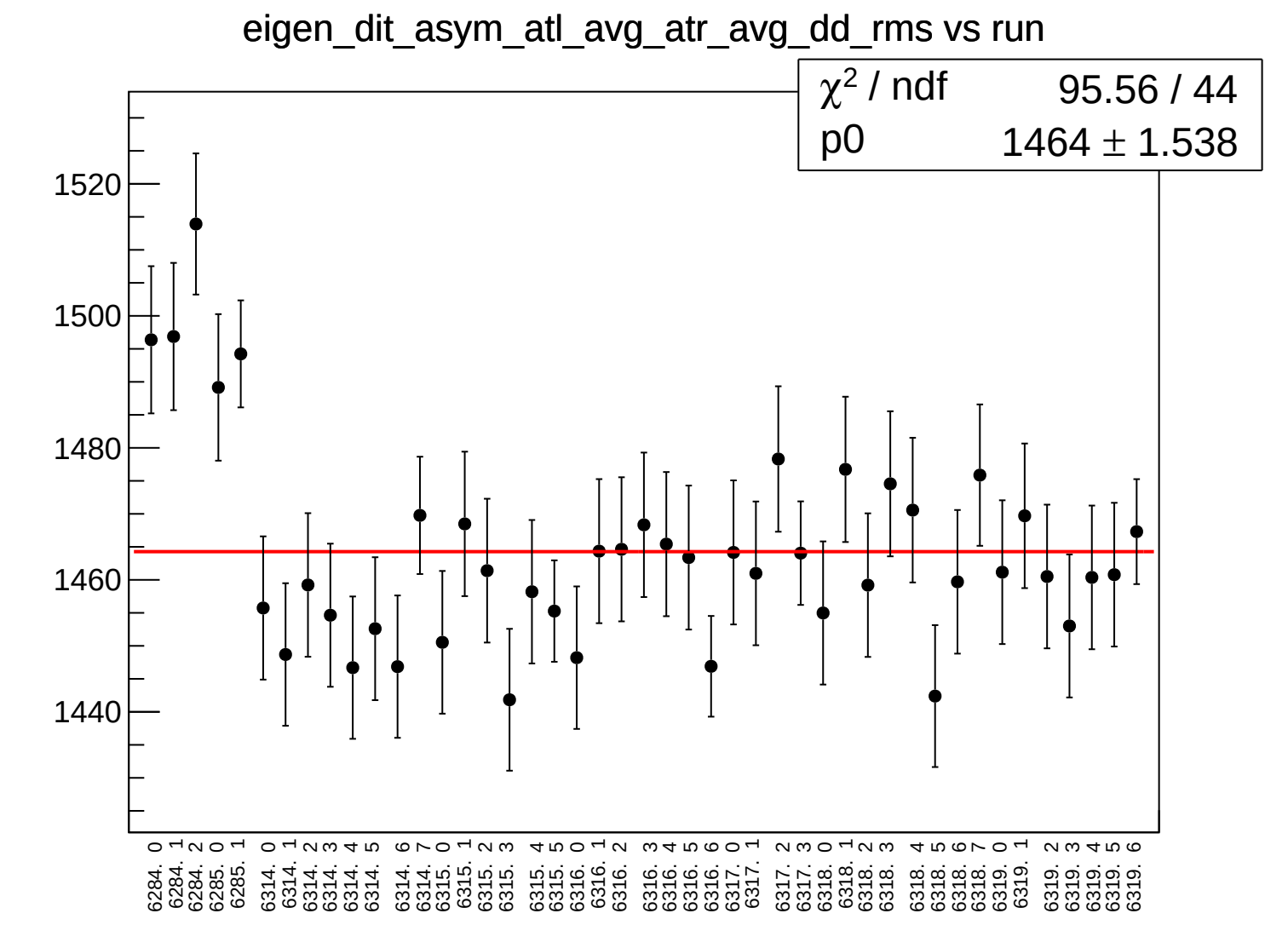

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 95.56 / 44
p0 1464 ± 1.538
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

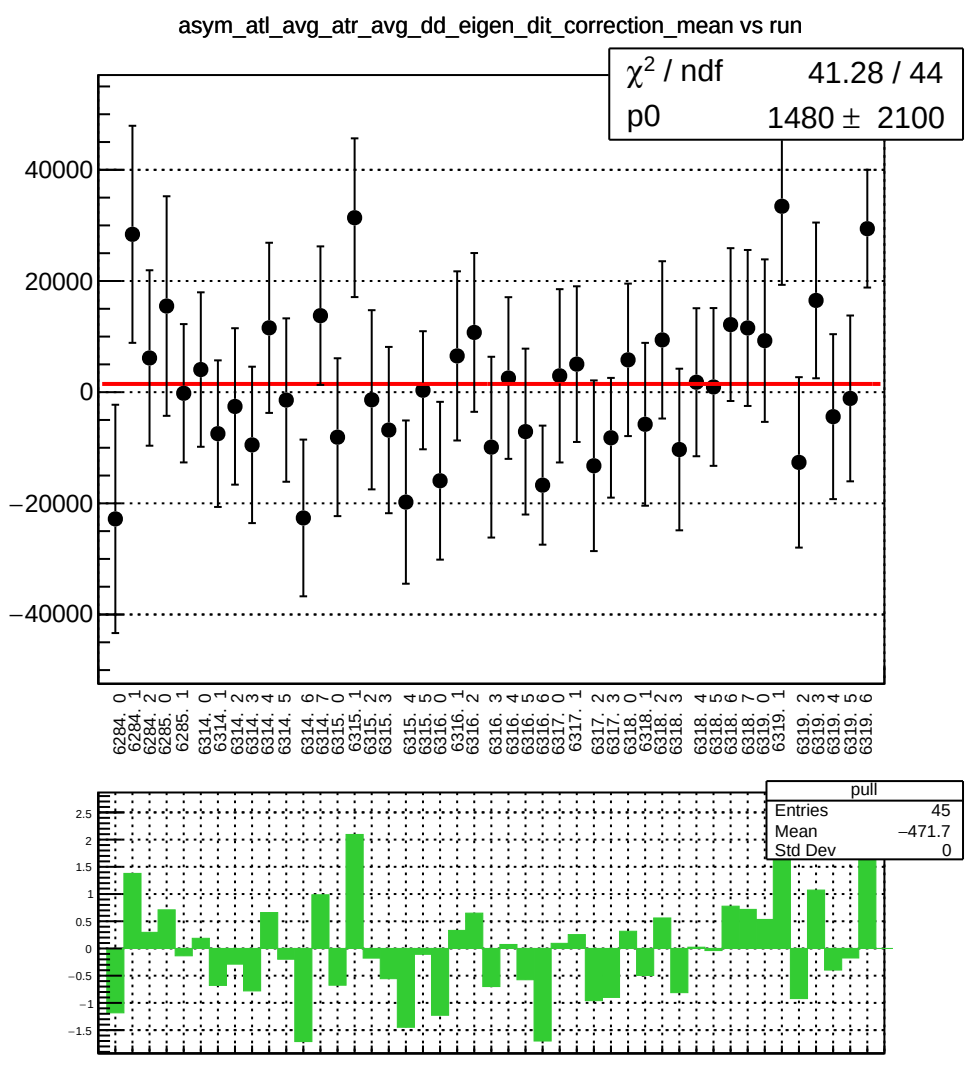

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 41.28 / 44
p0 1480 ± 2100
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −471.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

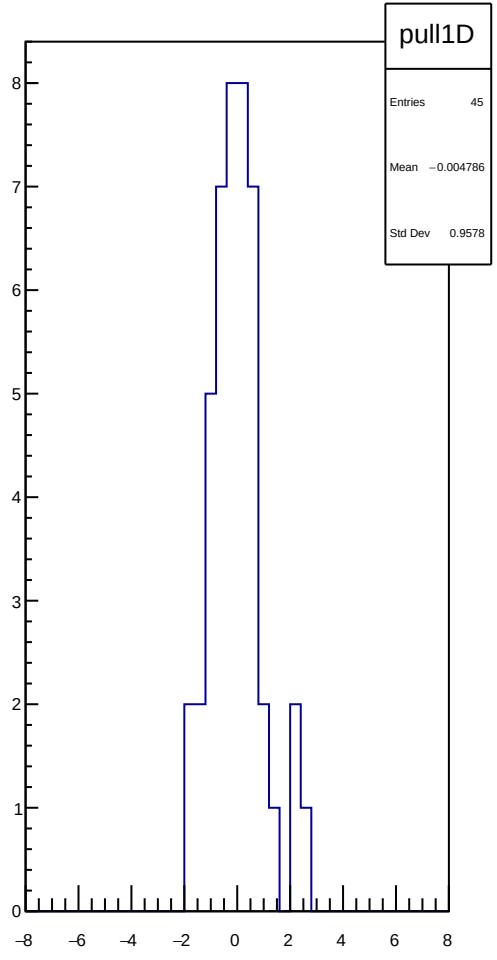

pull1D
Entries 45
Mean −0.004786
Std Dev 0.9578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

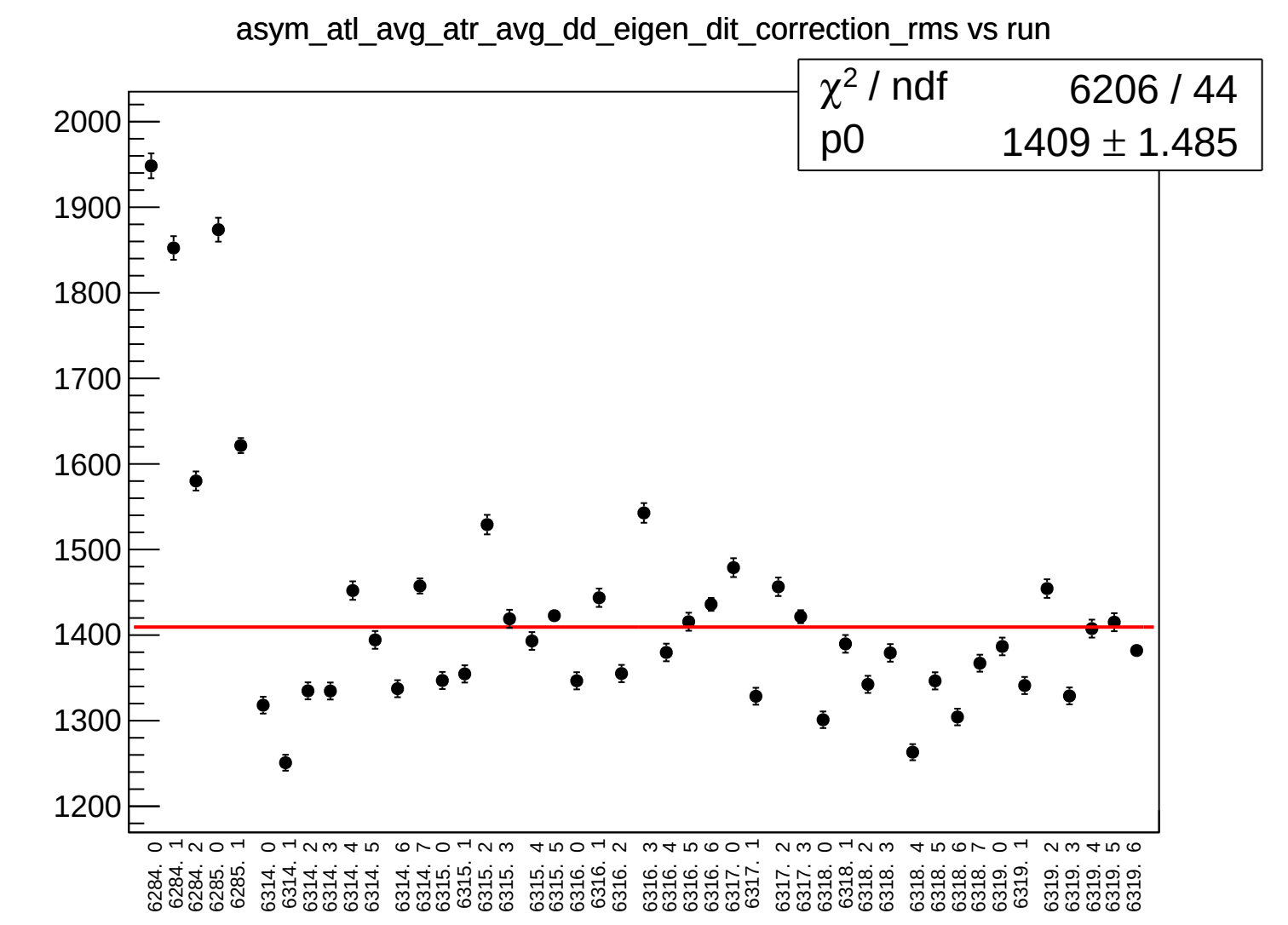

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 6206 / 44
p0 1409 ± 1.485
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

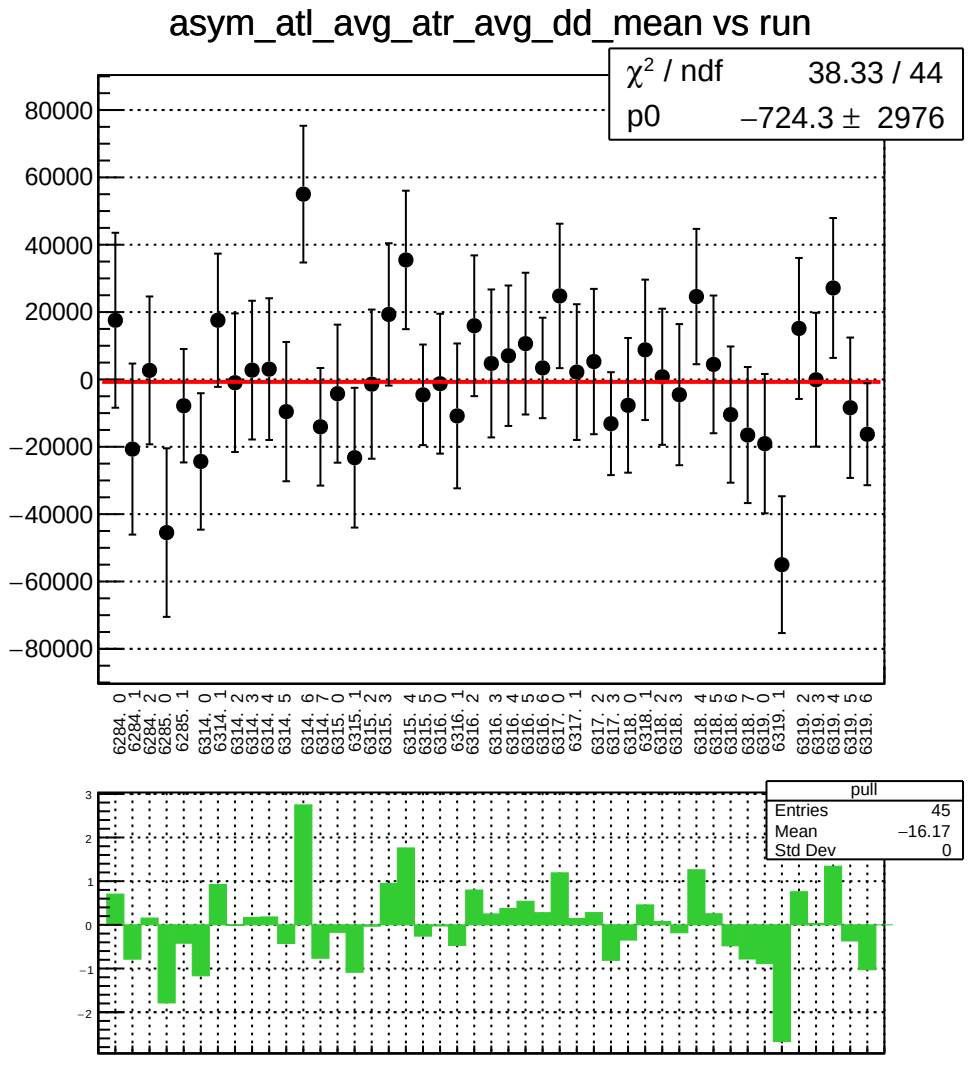

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.81 / 44
p0 388.2 ± 2174
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02788
Std Dev 0.9635
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

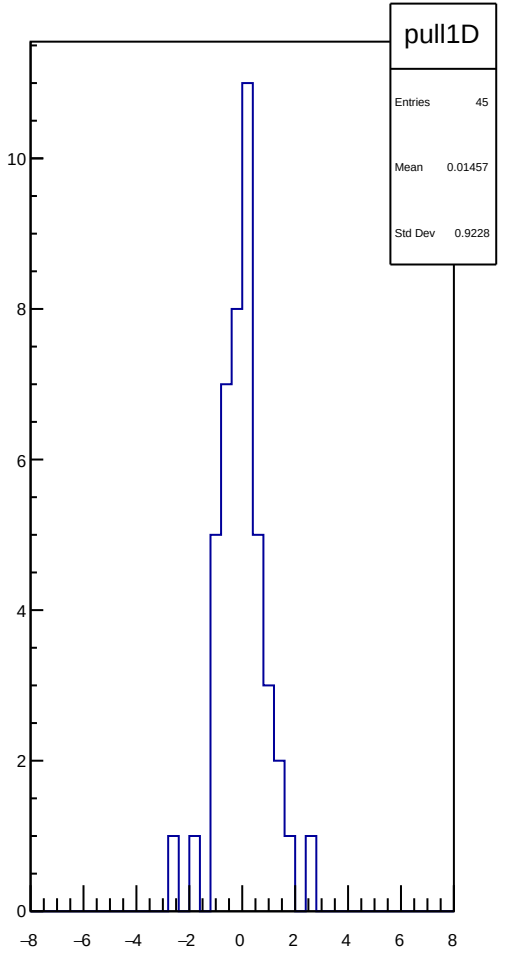

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 95.56 / 44
p0 1464 ± 1.538
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

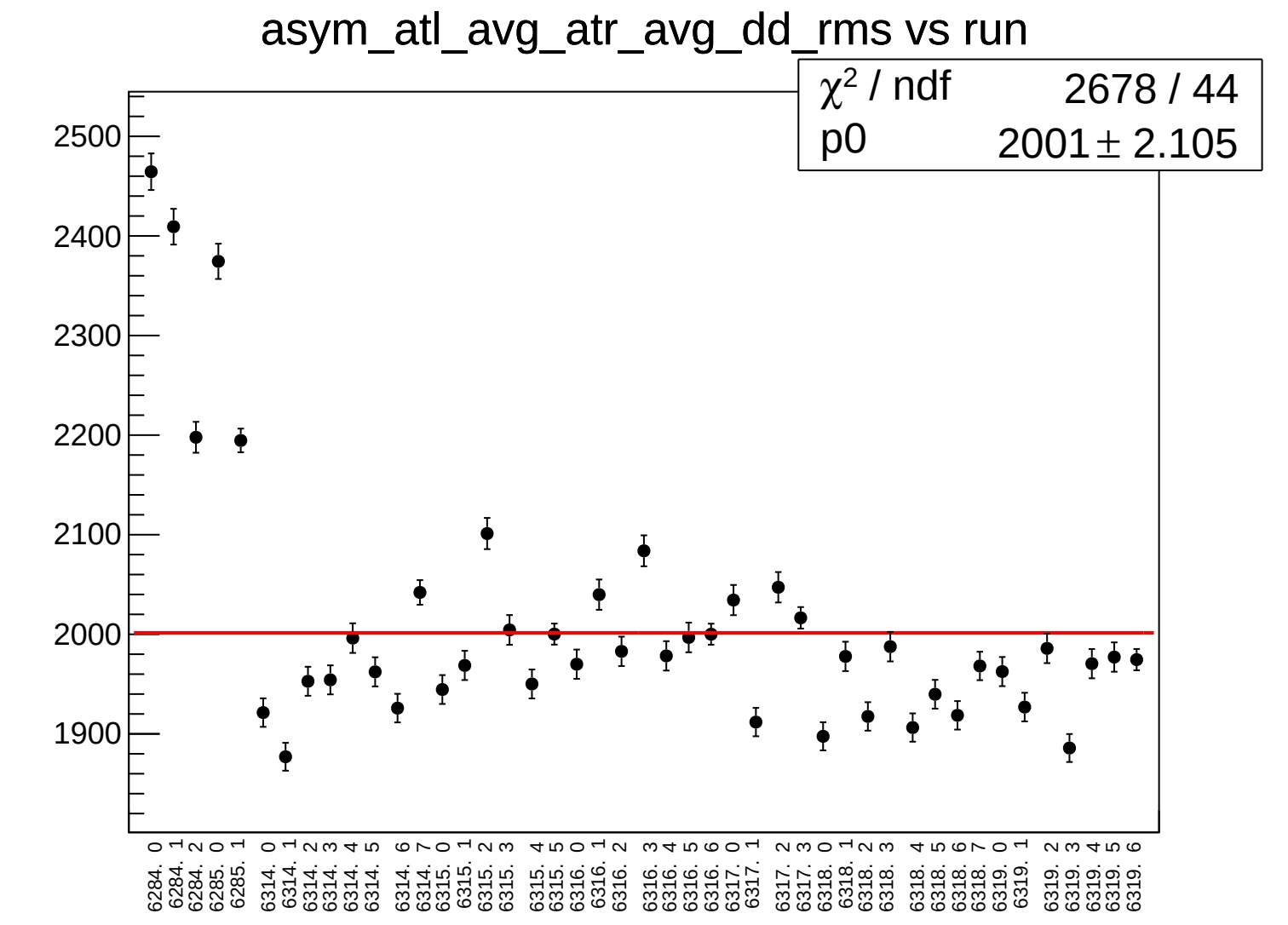

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.28 / 44
p0 1480 ± 2100
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −471.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

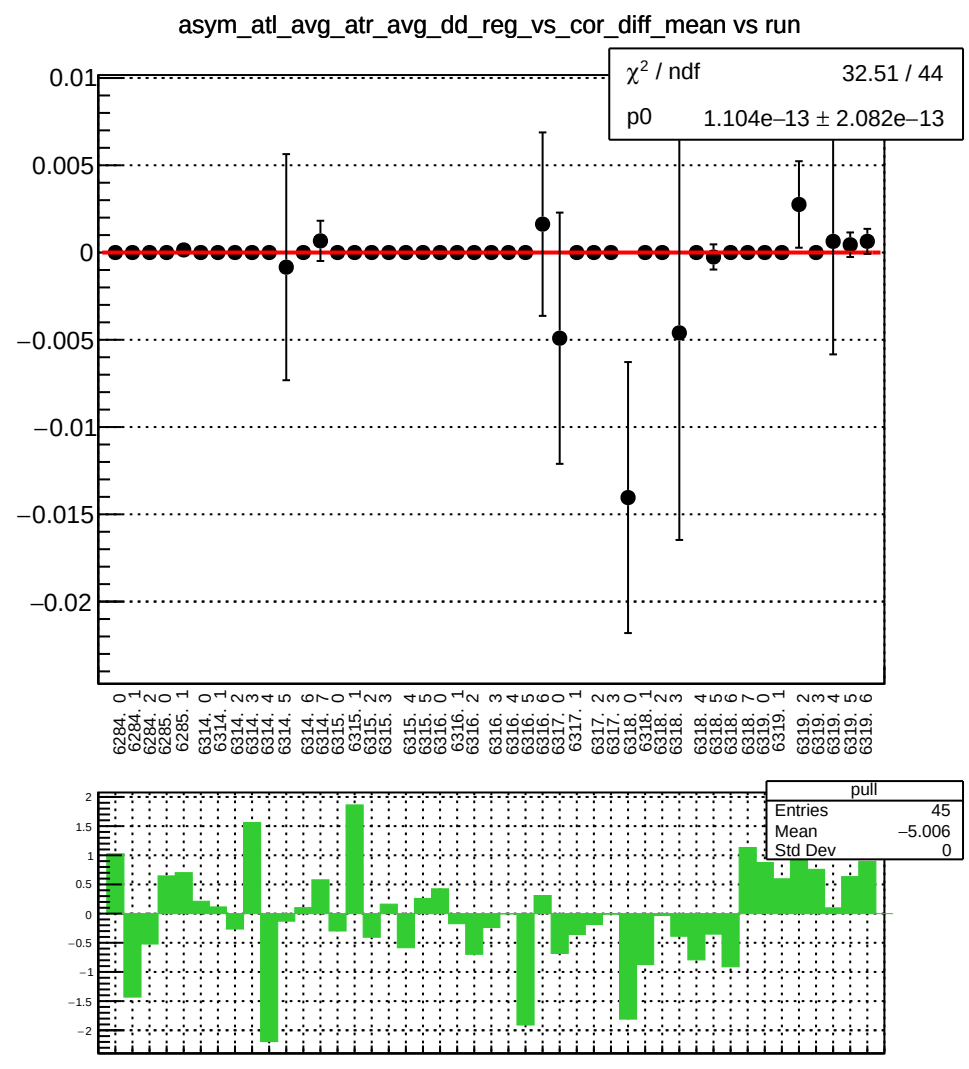

pull1D
Entries 45
Mean −0.004786
Std Dev 0.9578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6206 / 44
p0 1409 ± 1.485
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 38.33 / 44
p0 −724.3 ± 2976
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −16.17
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01457
Std Dev 0.9228
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2678 / 44
p0 2001 ± 2.105
2500
2400
2300
2200
2100
2000
1900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.51 / 44
p0 1.104e−13 ± 2.082e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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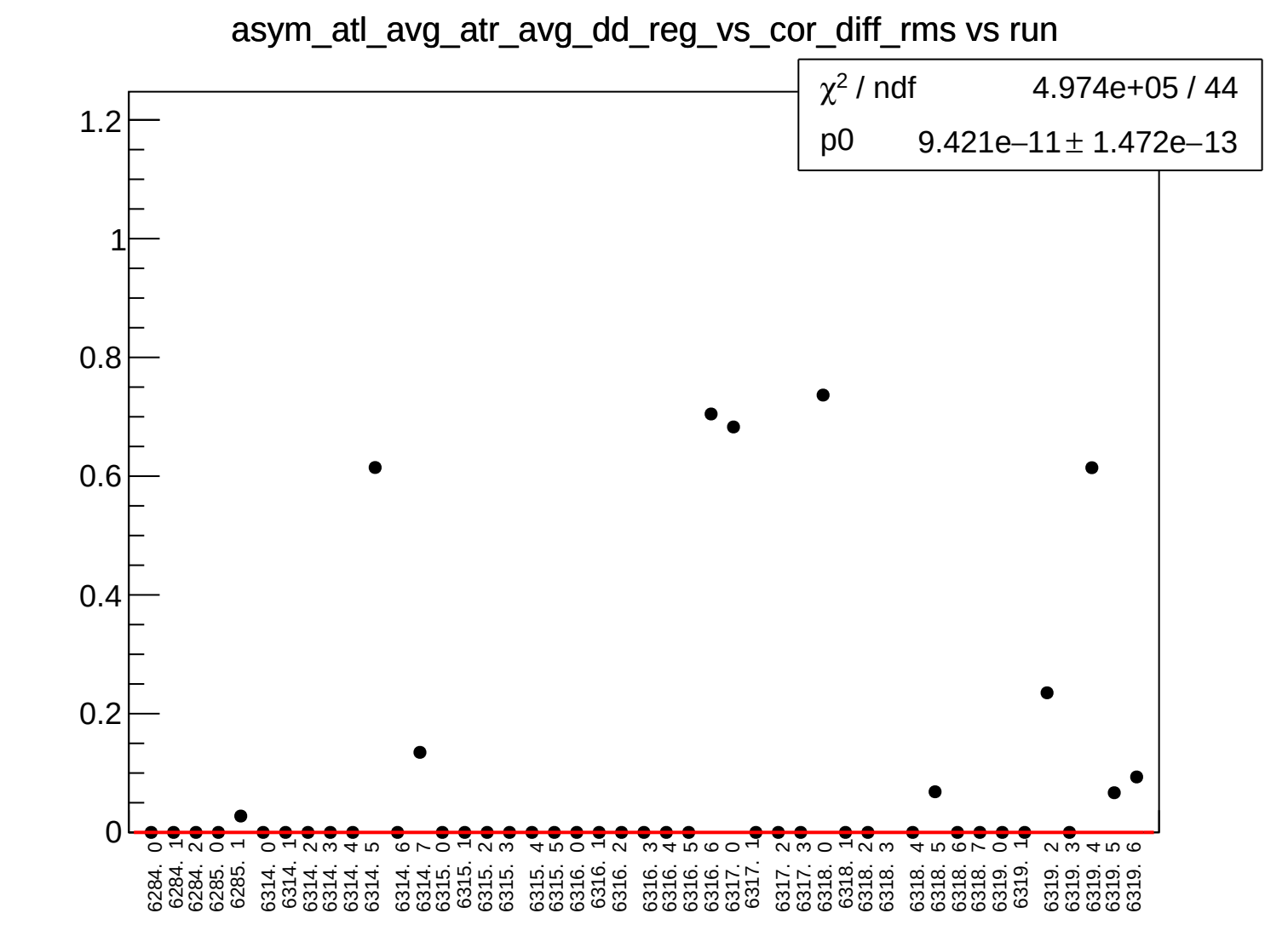
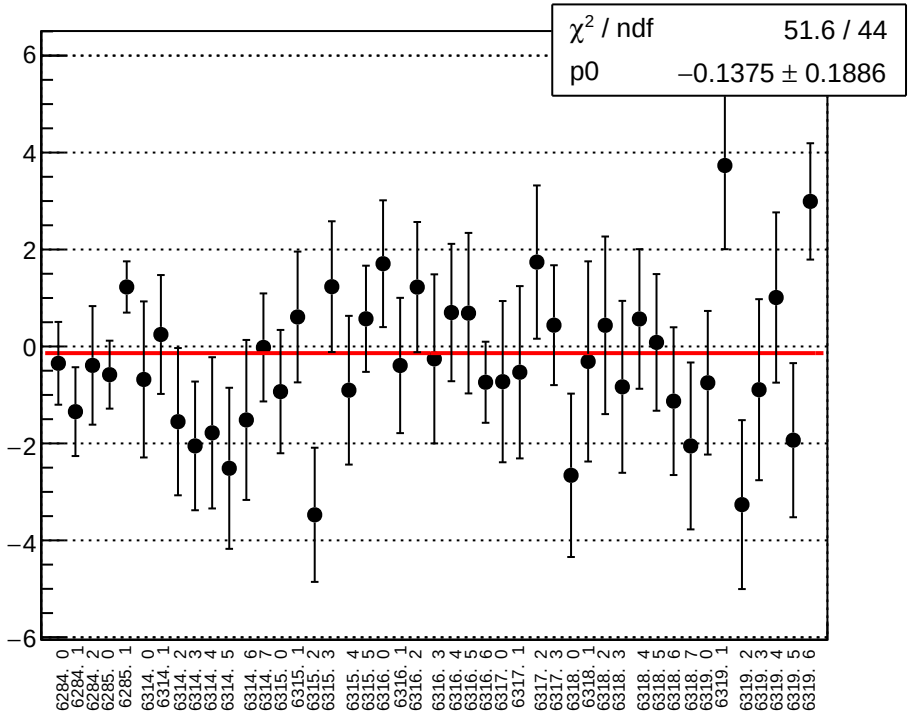
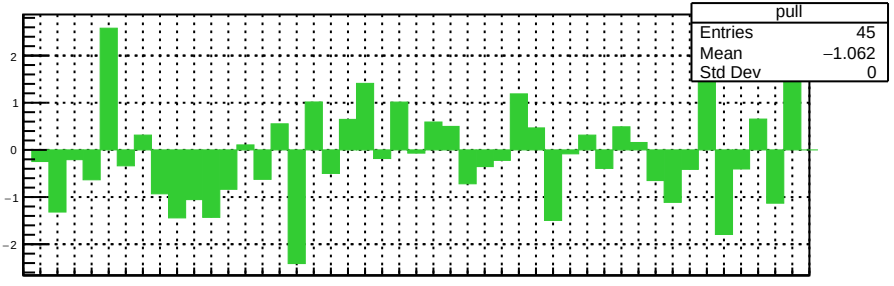
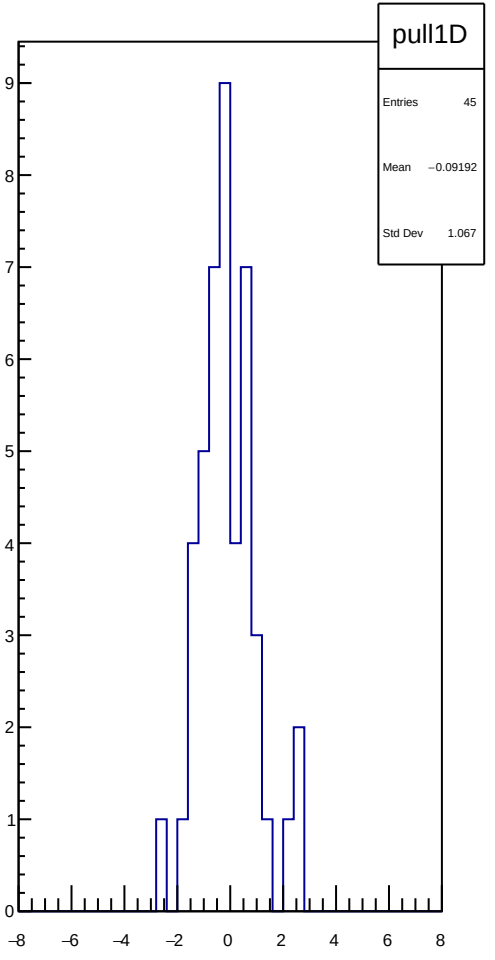
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −5.006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02609
Std Dev 0.8496
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

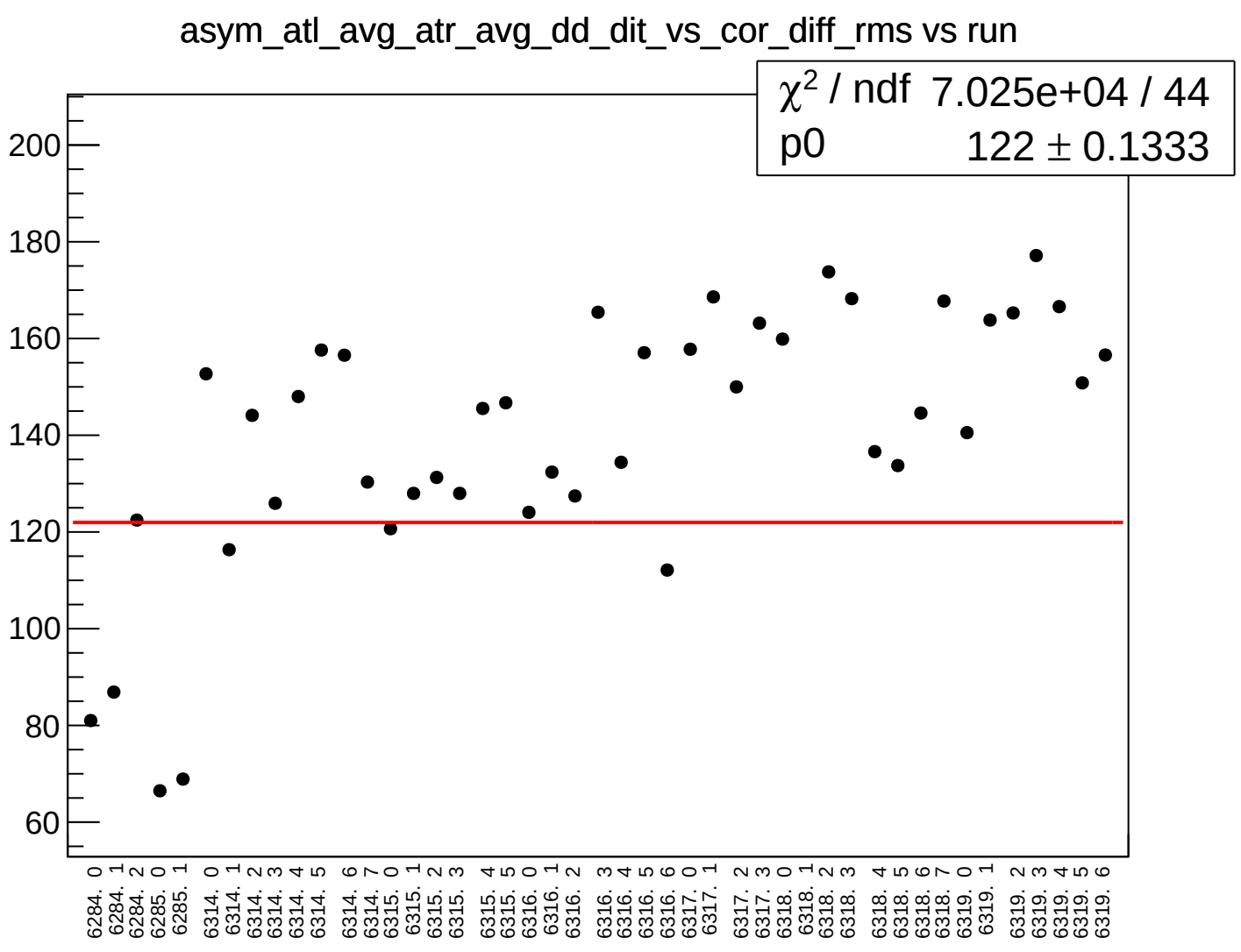

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.974e+05 / 44
p0 9.421e−11 ± 1.472e−13
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

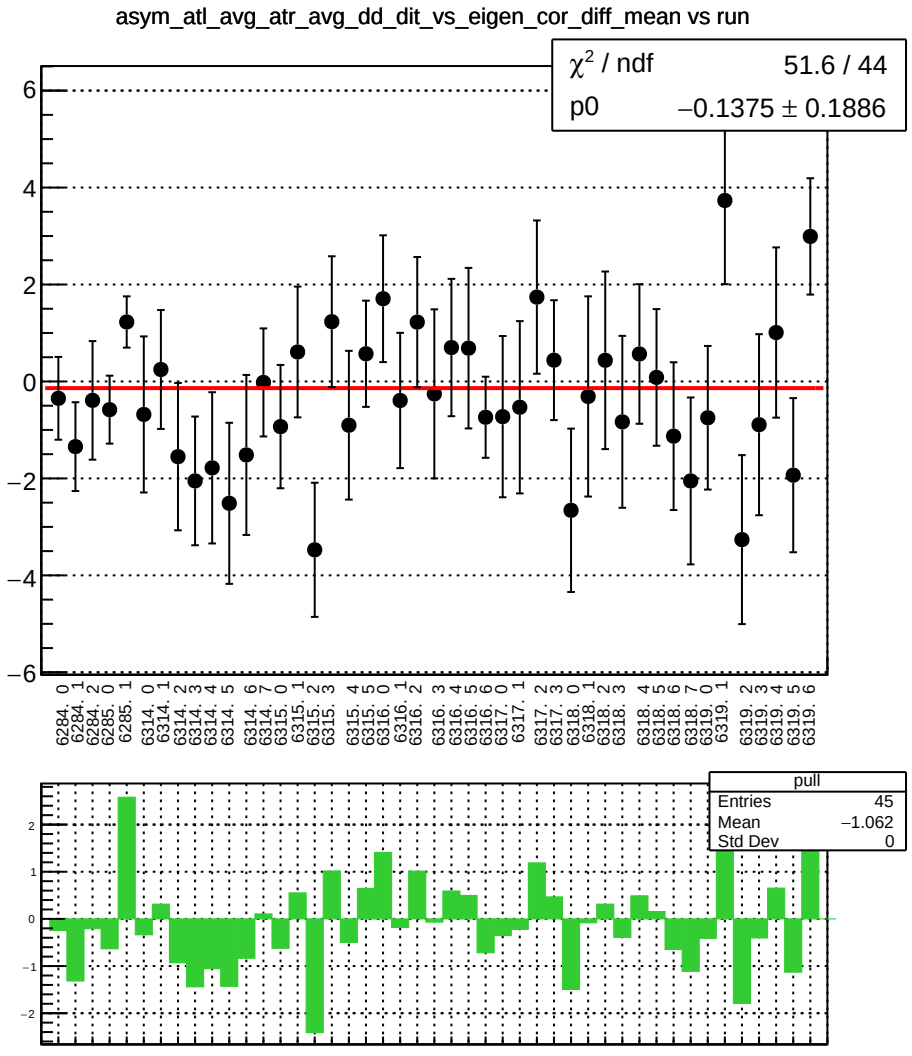
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run

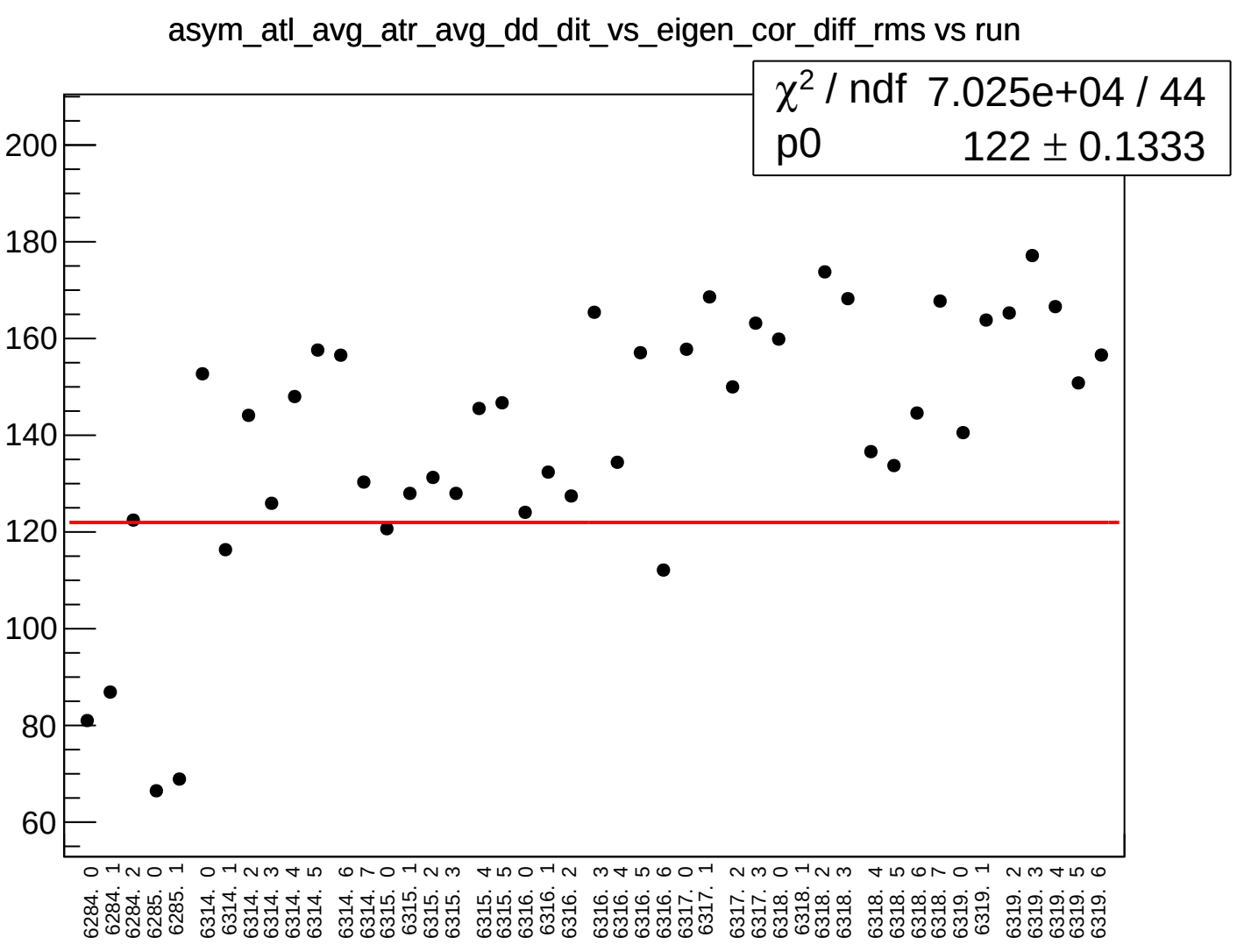


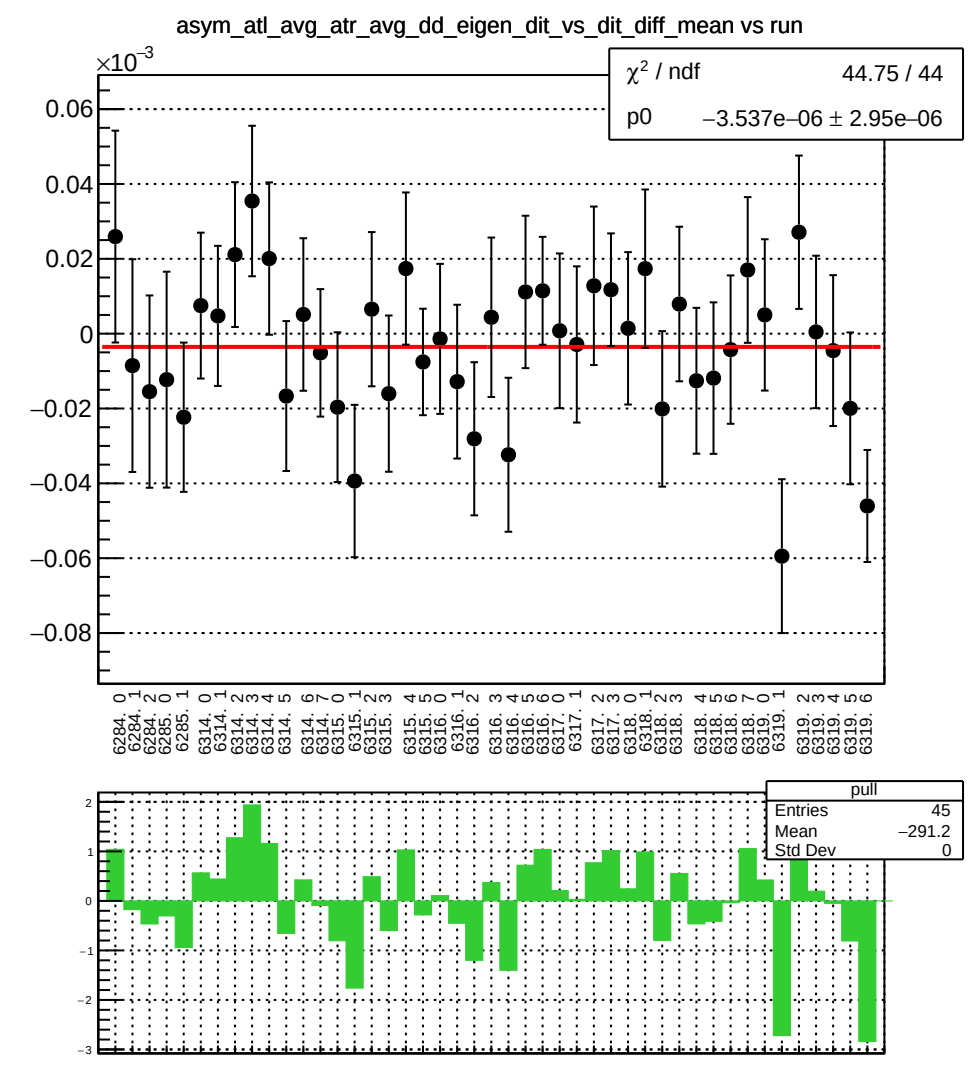


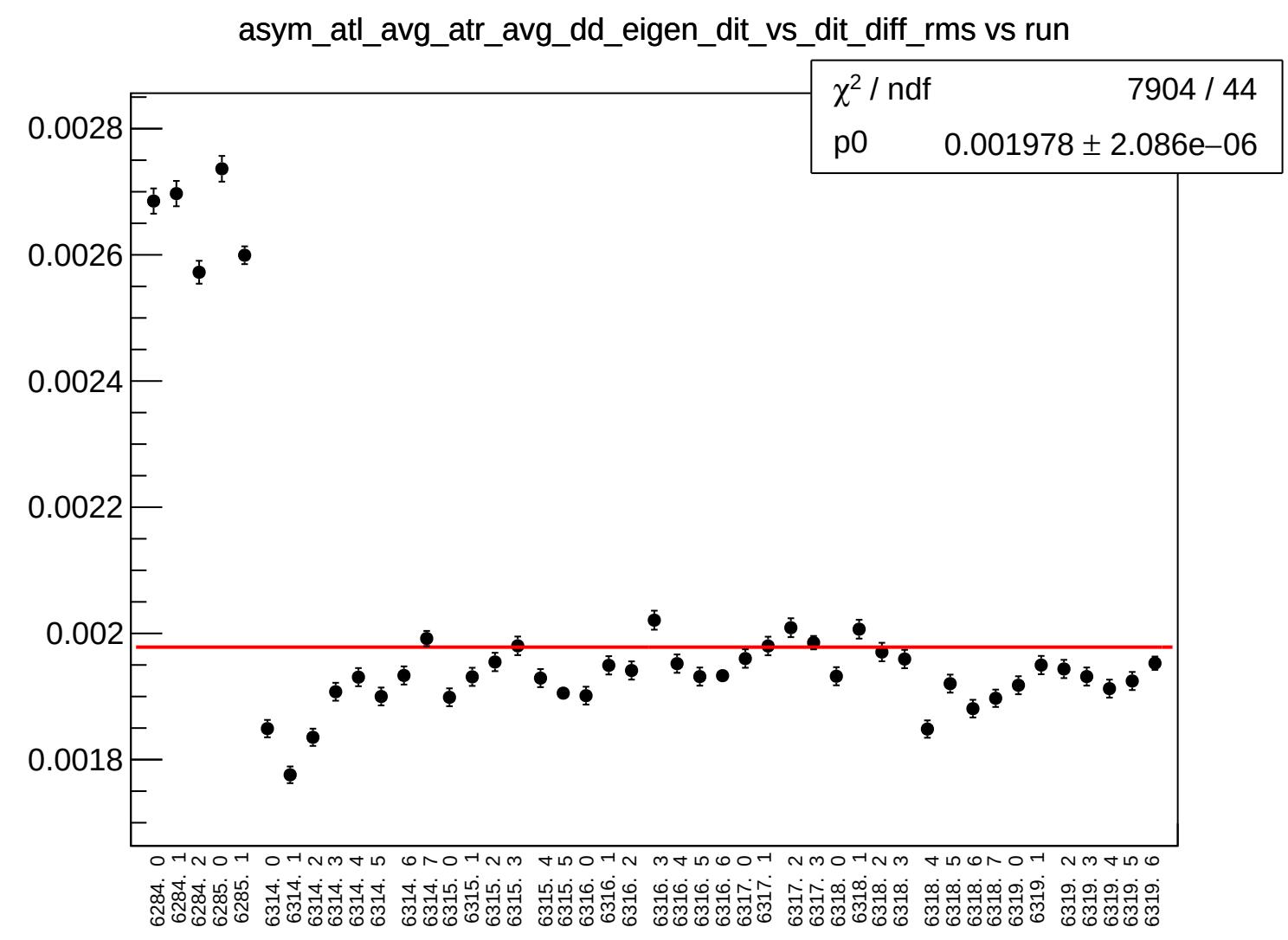


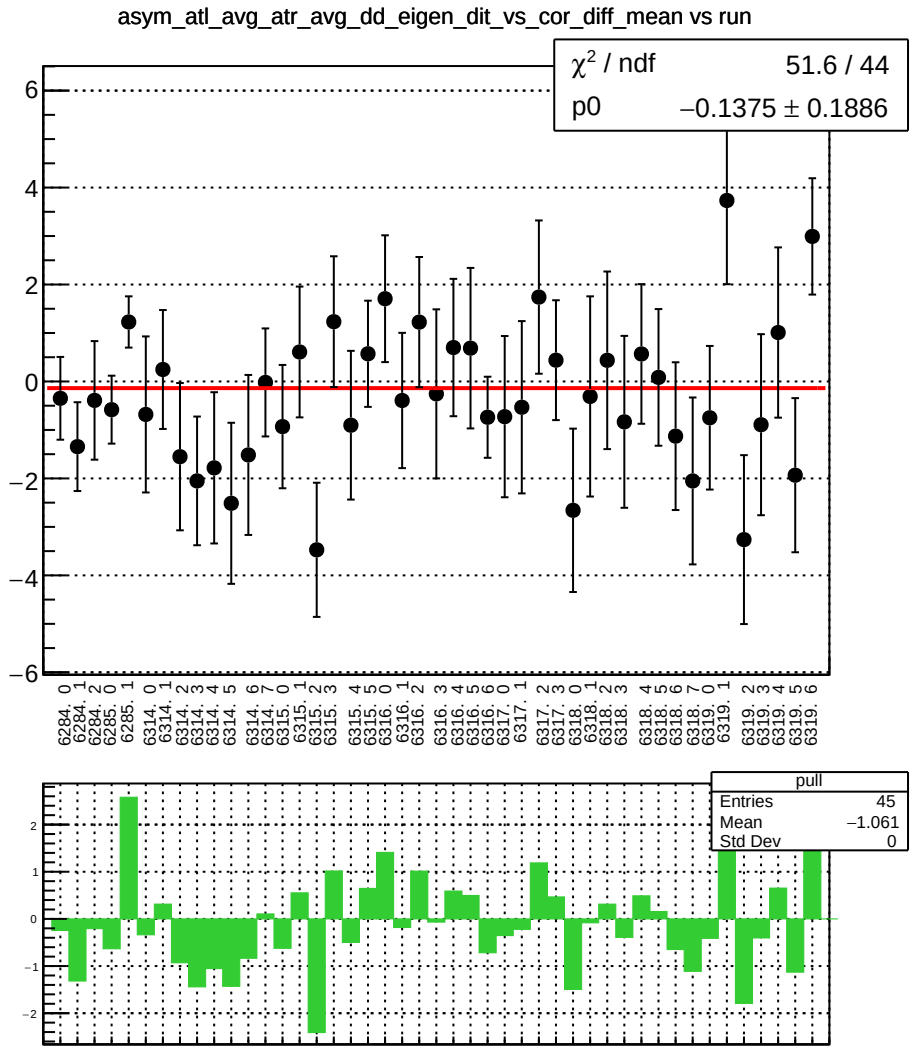

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

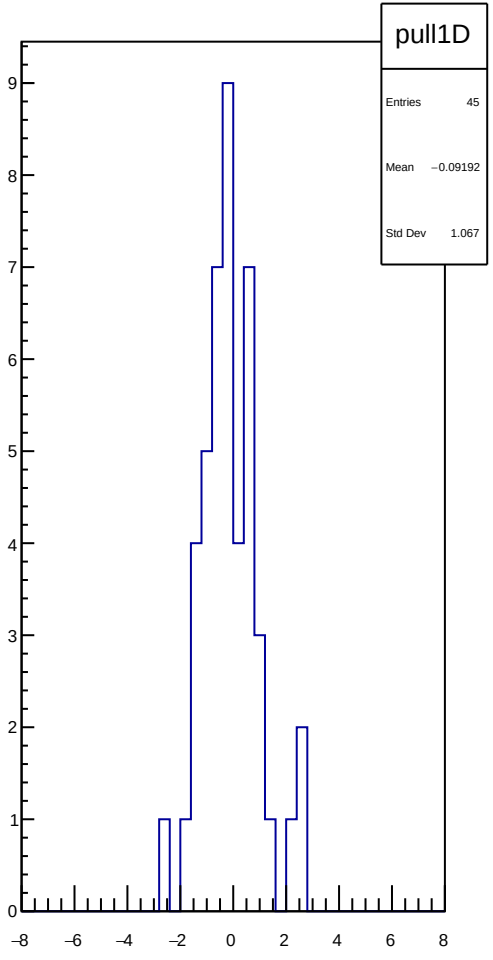

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
pull
Entries 45
Mean −1.062
Std Dev 0
pull1D
Entries 45
Mean −0.09192
Std Dev 1.067

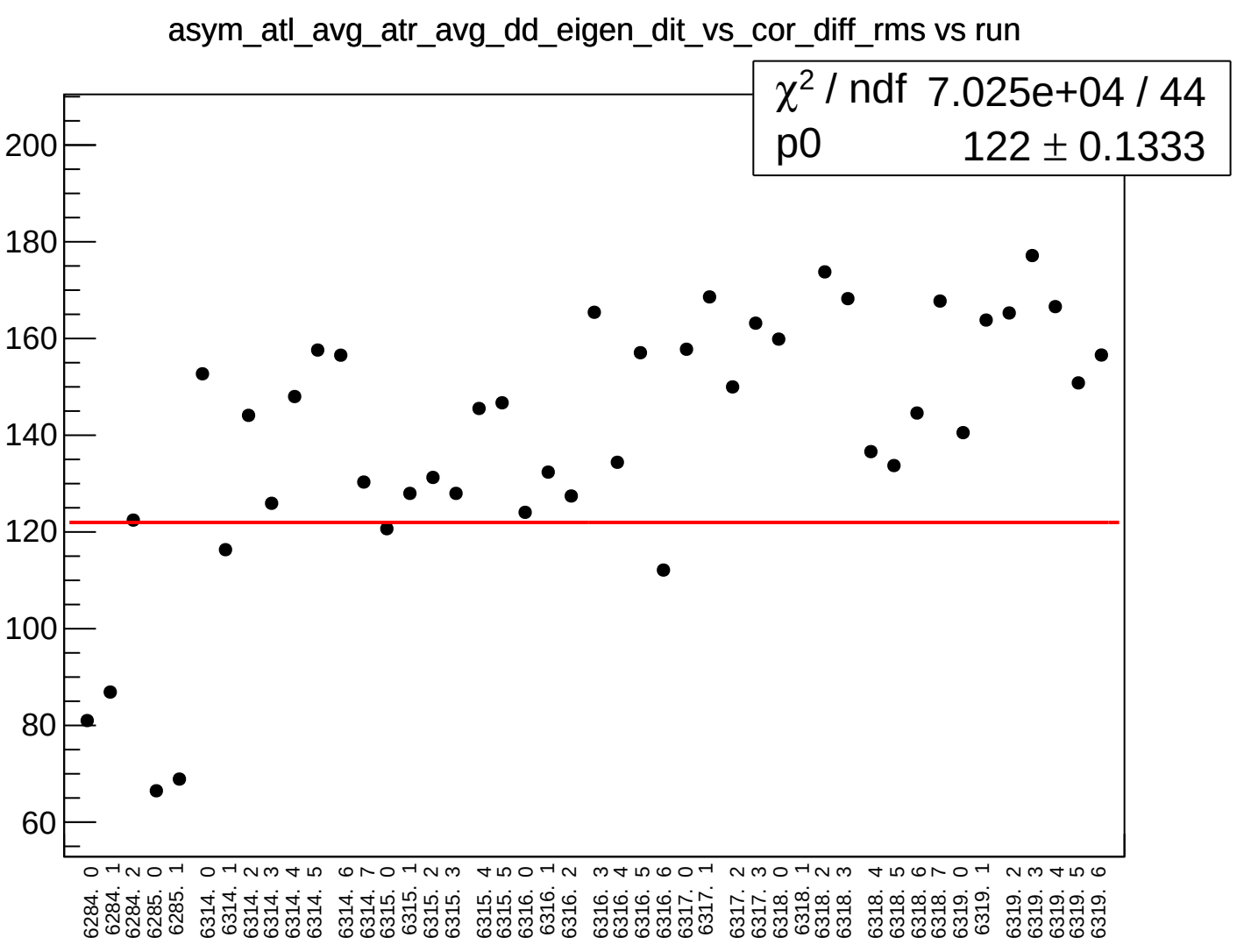

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

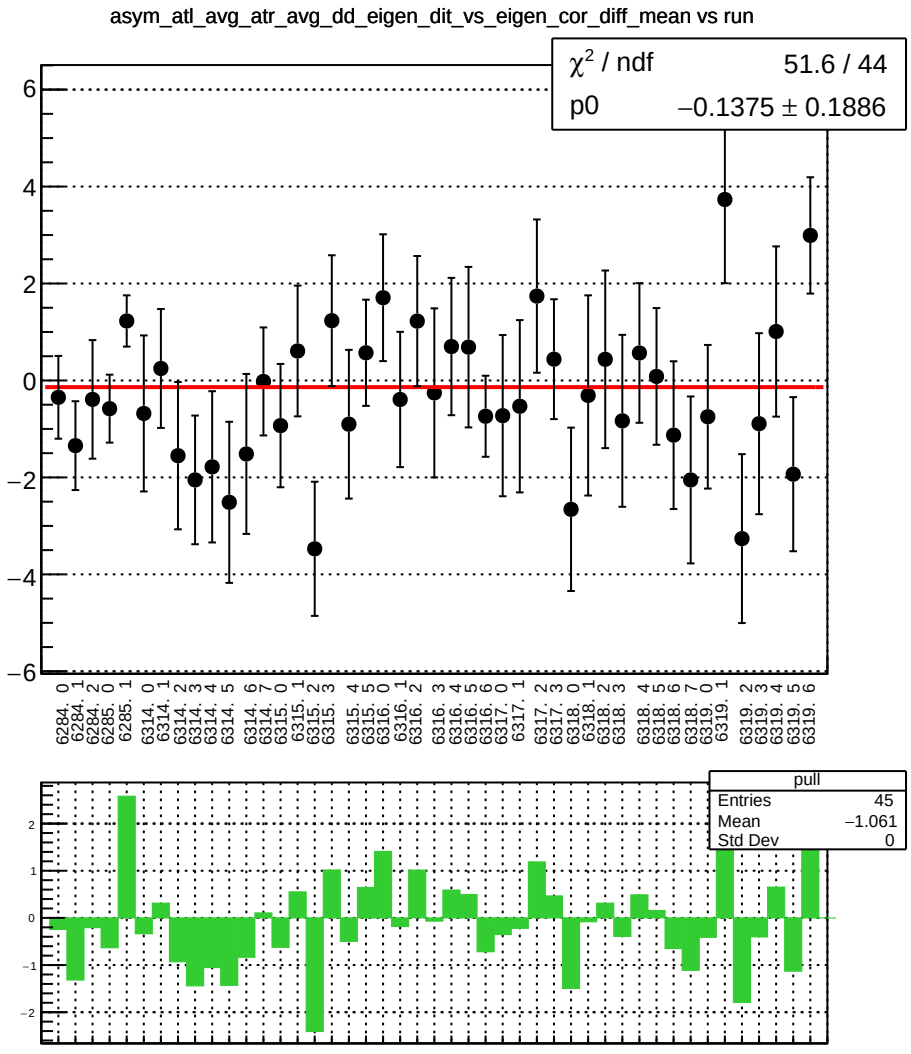

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.75 / 44
p0 −3.537e−06 ± 2.95e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −291.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.00722
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

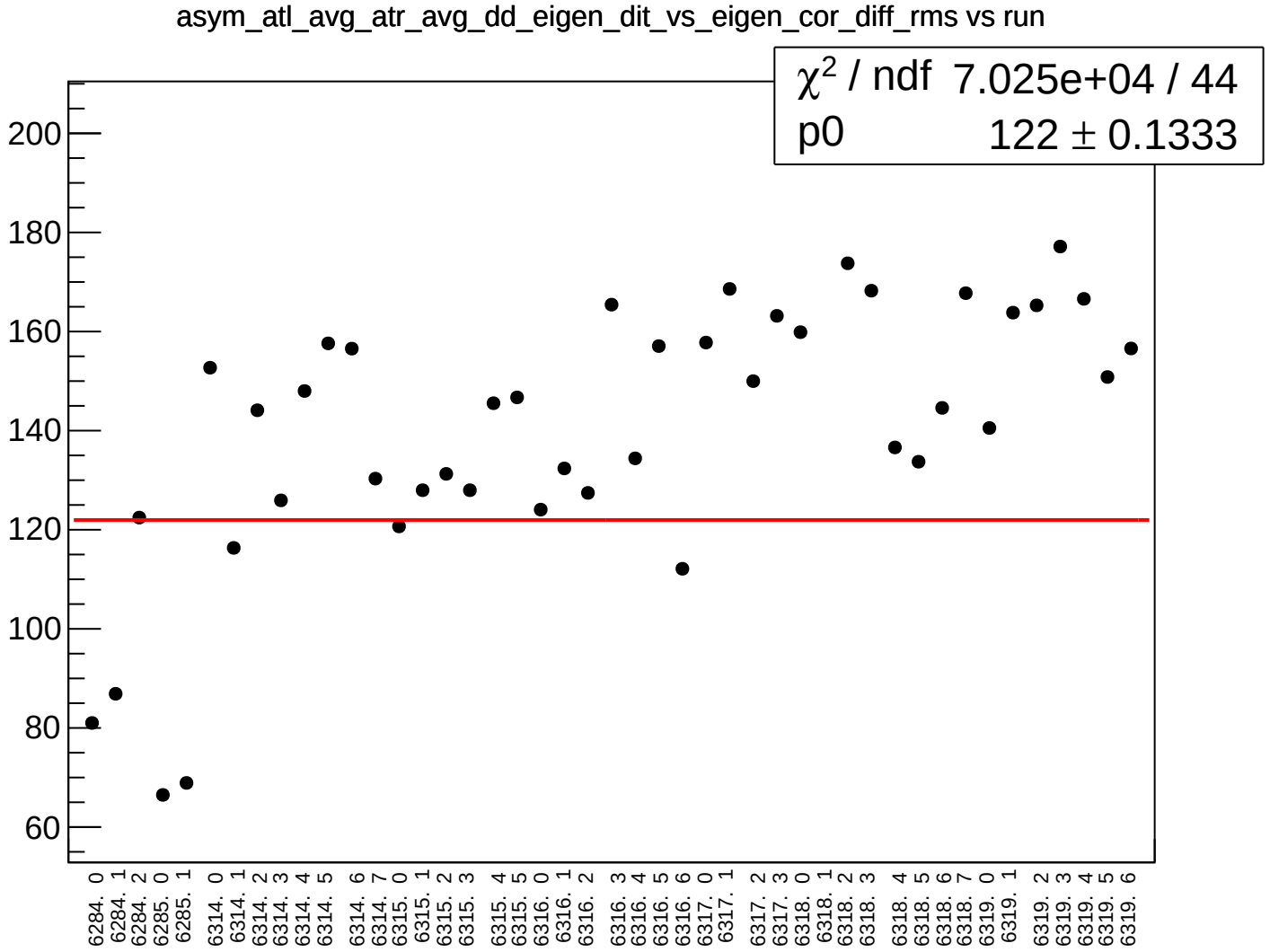

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7904 / 44
p0 0.001978 ± 2.086e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

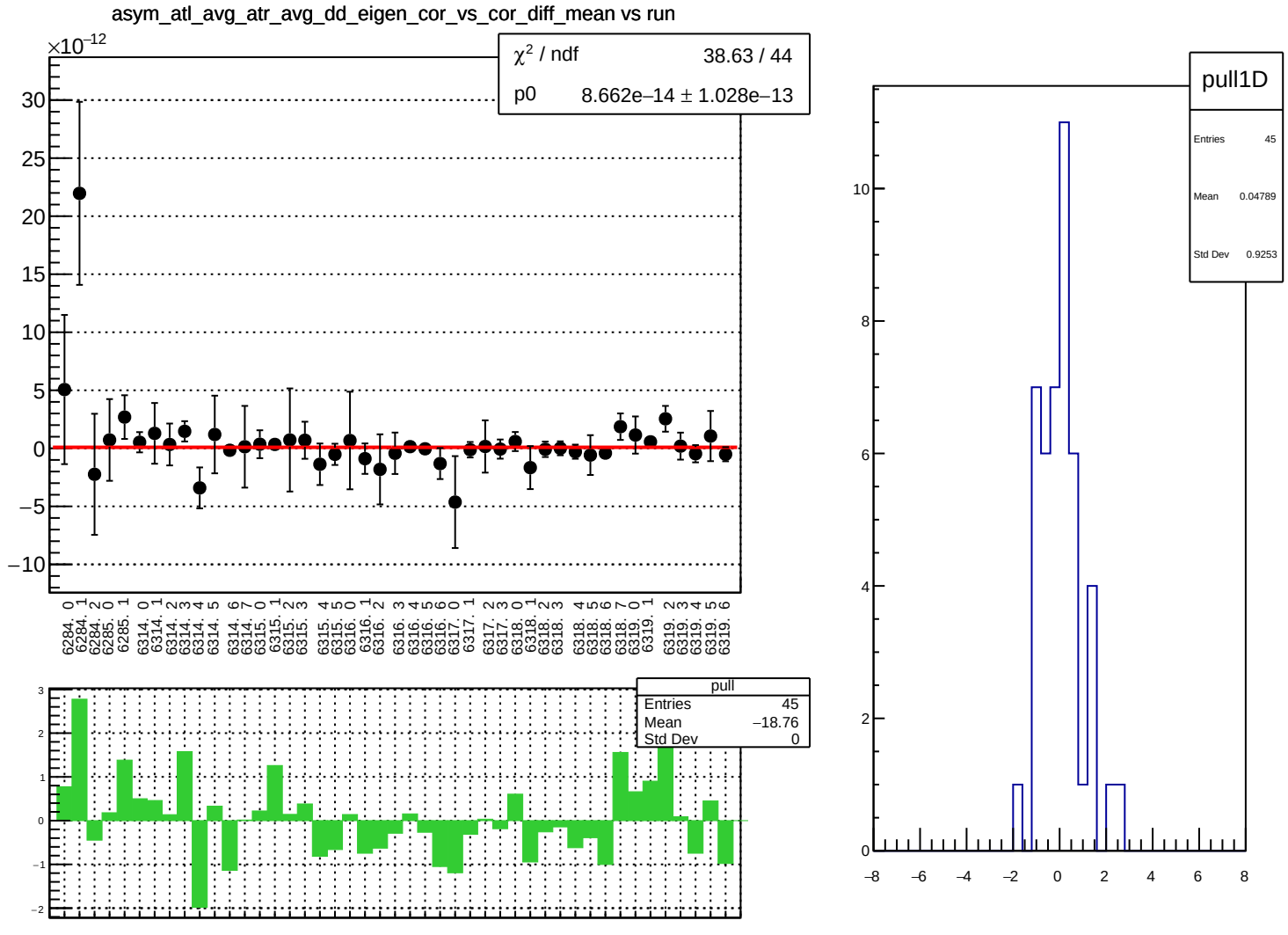

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
pull
Entries 45
Mean −1.061
Std Dev 0

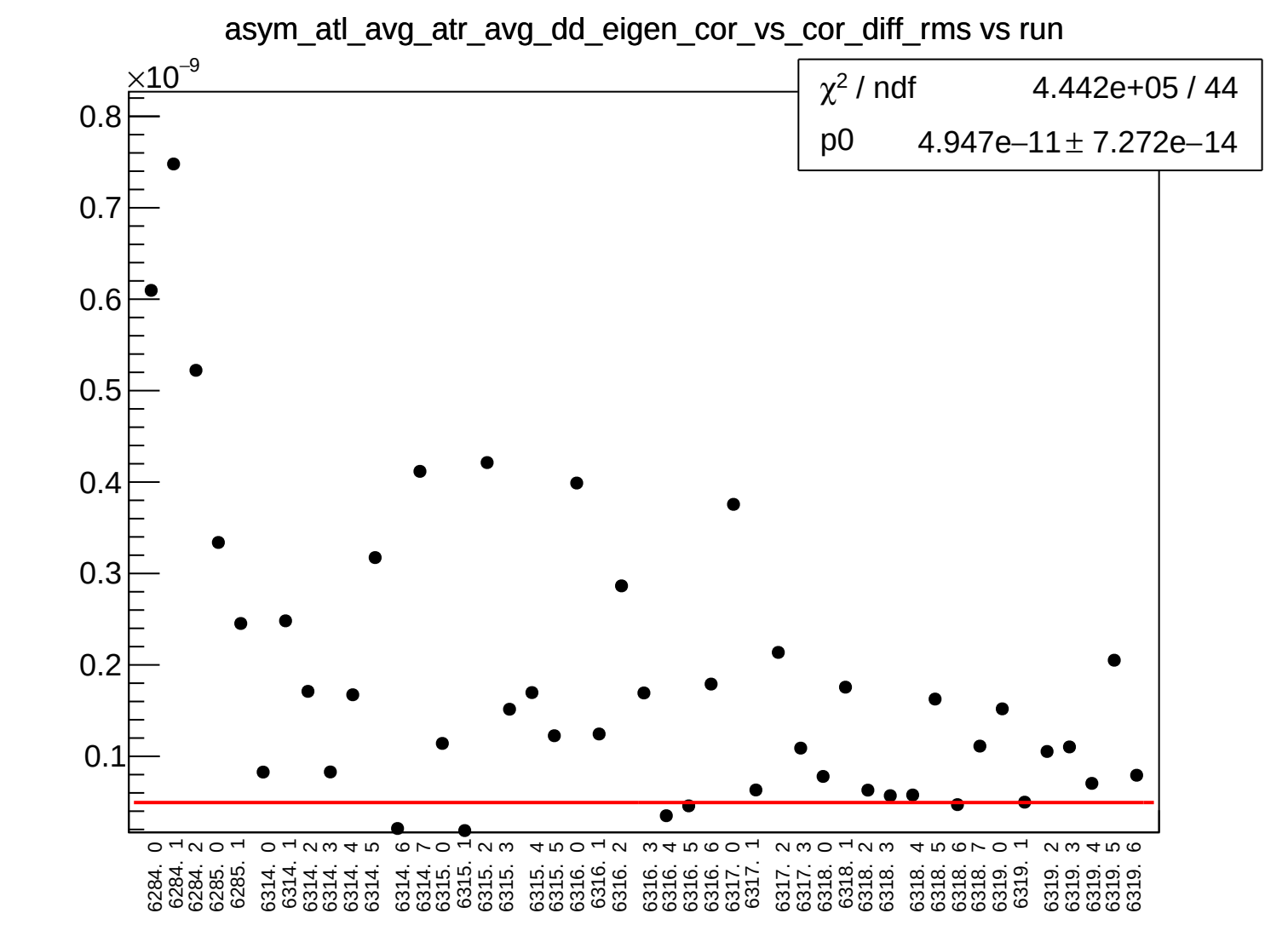

pull1D
Entries 45
Mean −0.09192
Std Dev 1.067

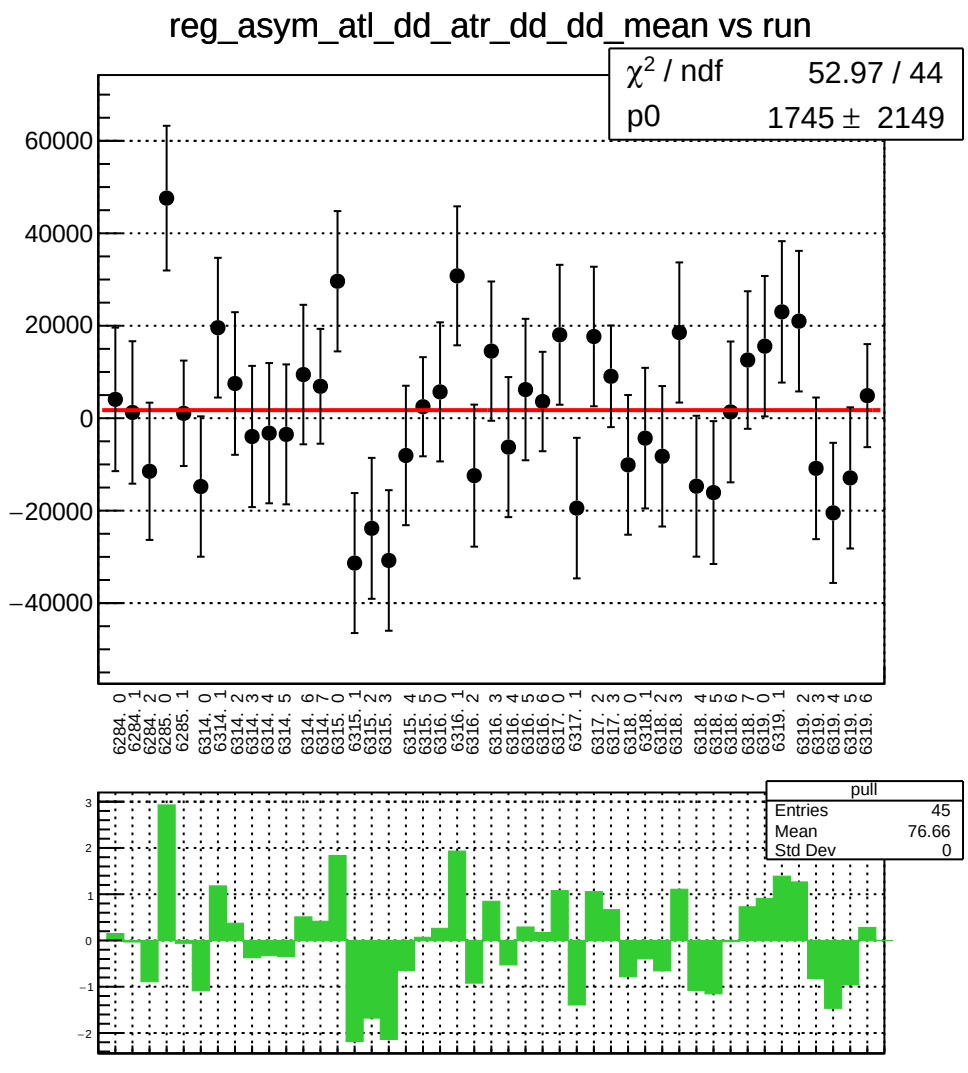

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

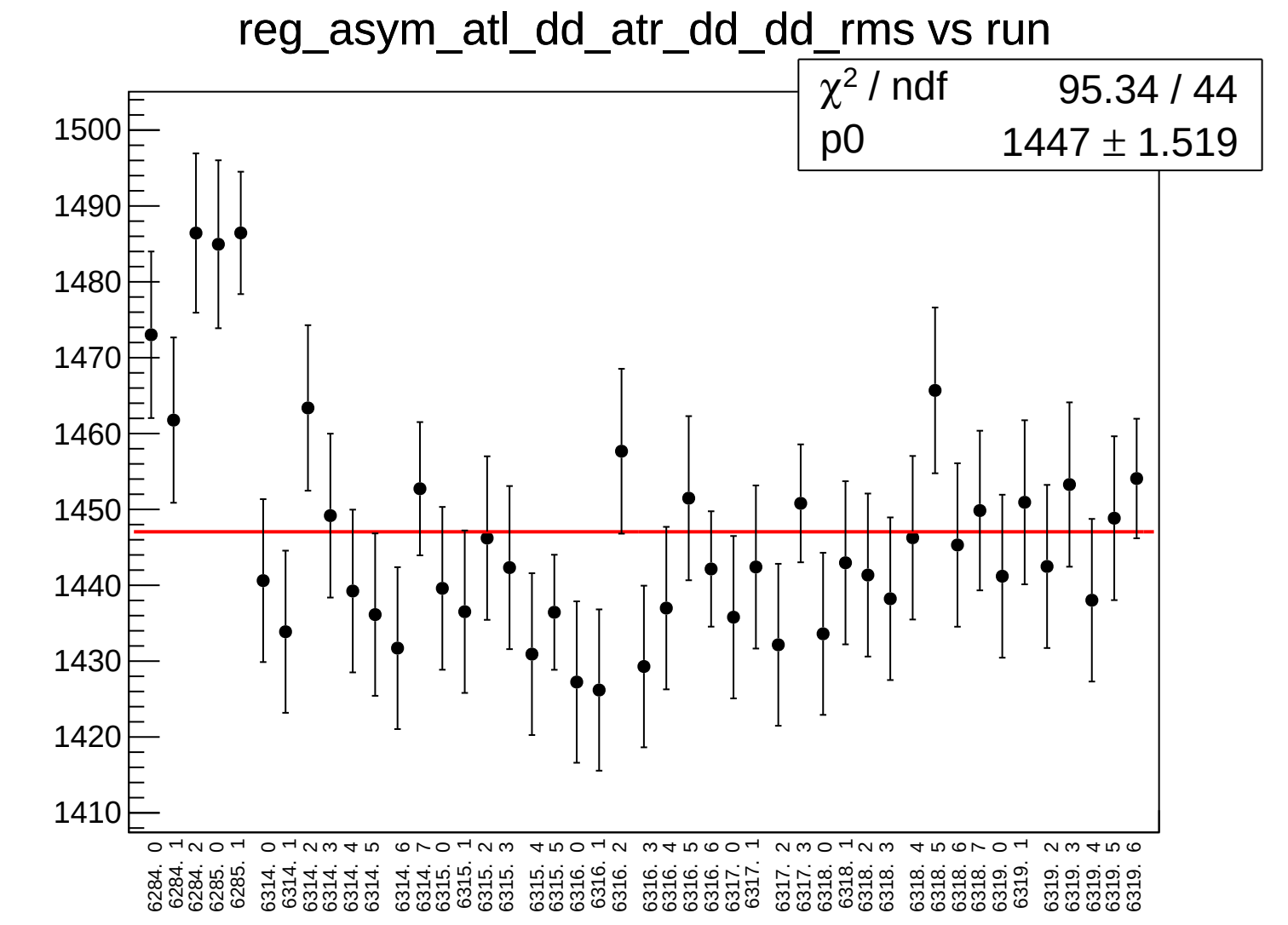

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
pull
Entries 45
Mean −1.061
Std Dev 0
pull1D
Entries 45
Mean −0.09192
Std Dev 1.067

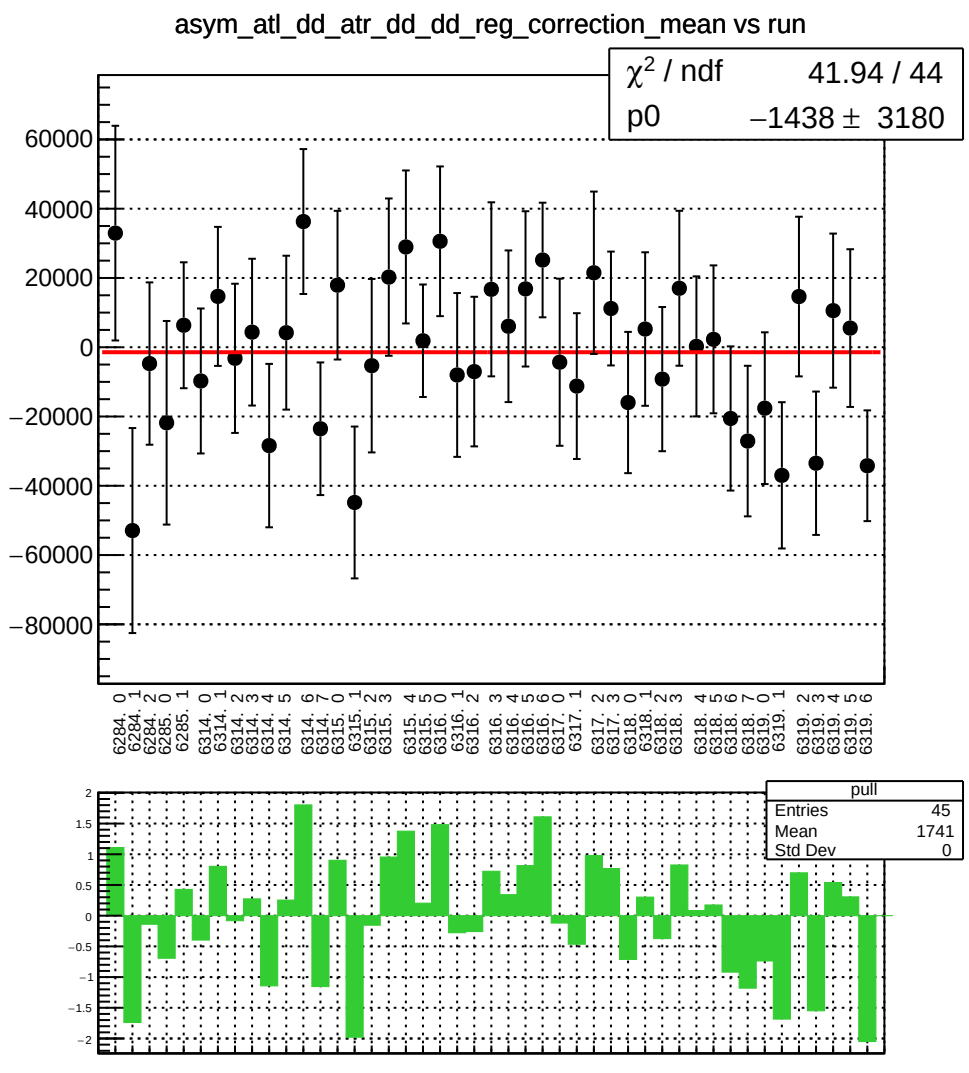

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

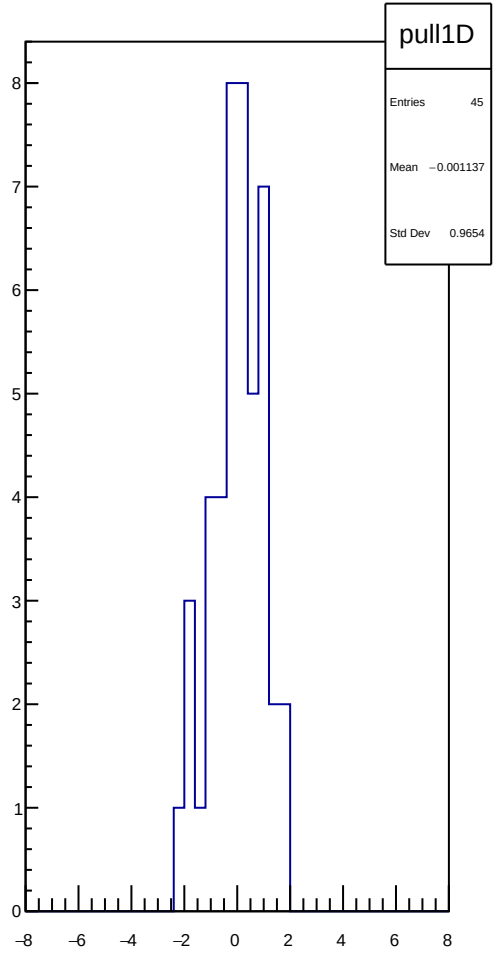

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.63 / 44
p0 8.662e−14 ± 1.028e−13
30
25
20
15
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −18.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.04789
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

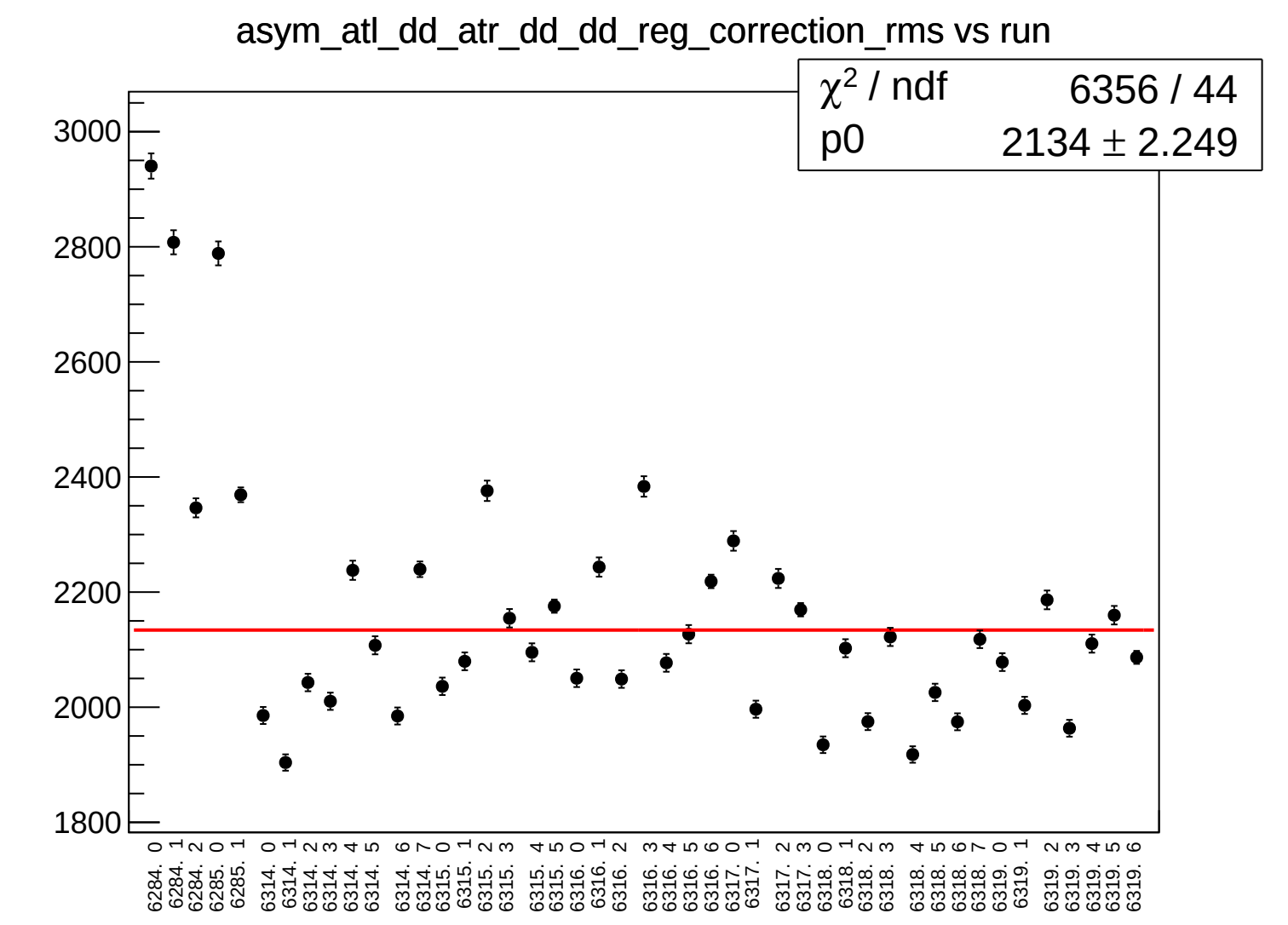

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.442e+05 / 44
p0 4.947e−11 ± 7.272e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

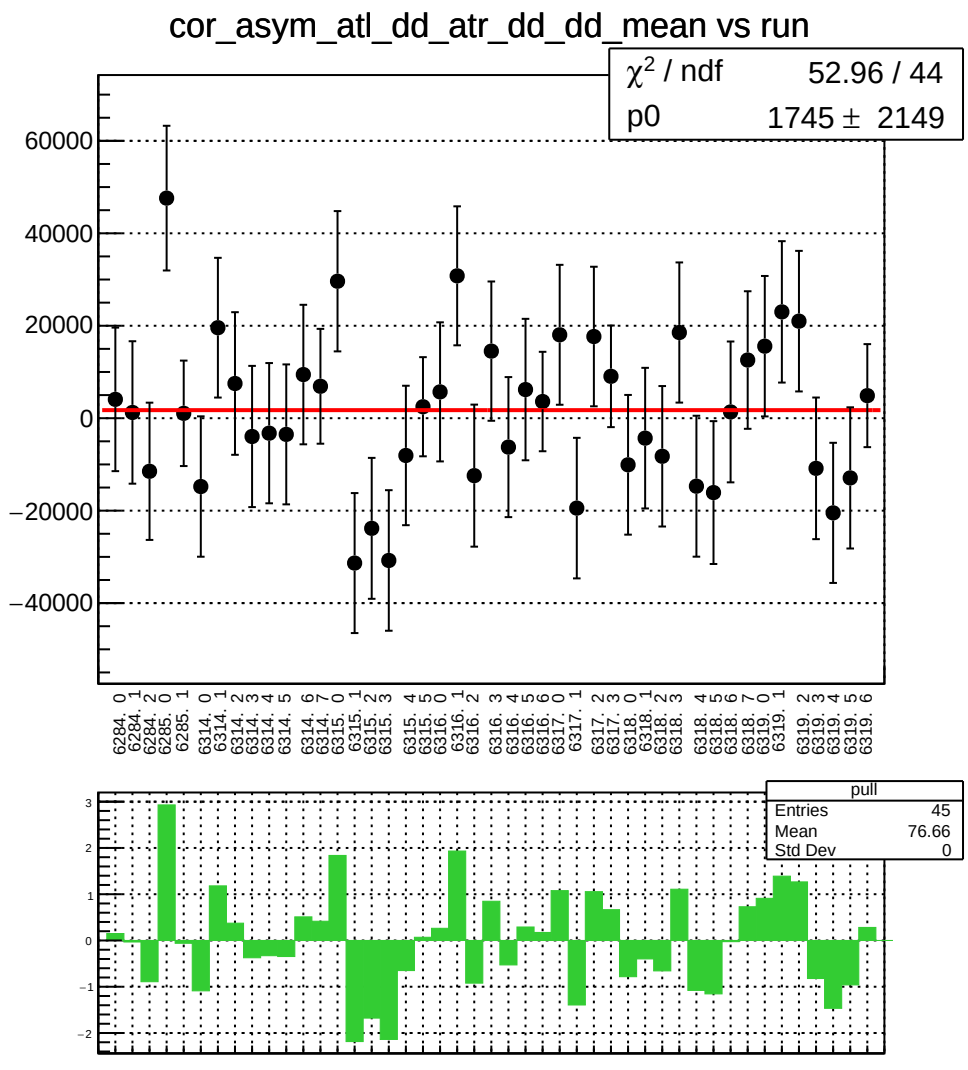

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.97 / 44
p0 1745 ± 2149
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1741
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001137
Std Dev 0.9654
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.96 / 44
p0 1745 ± 2149
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
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6319. 2
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6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
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−4
−2
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2
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6
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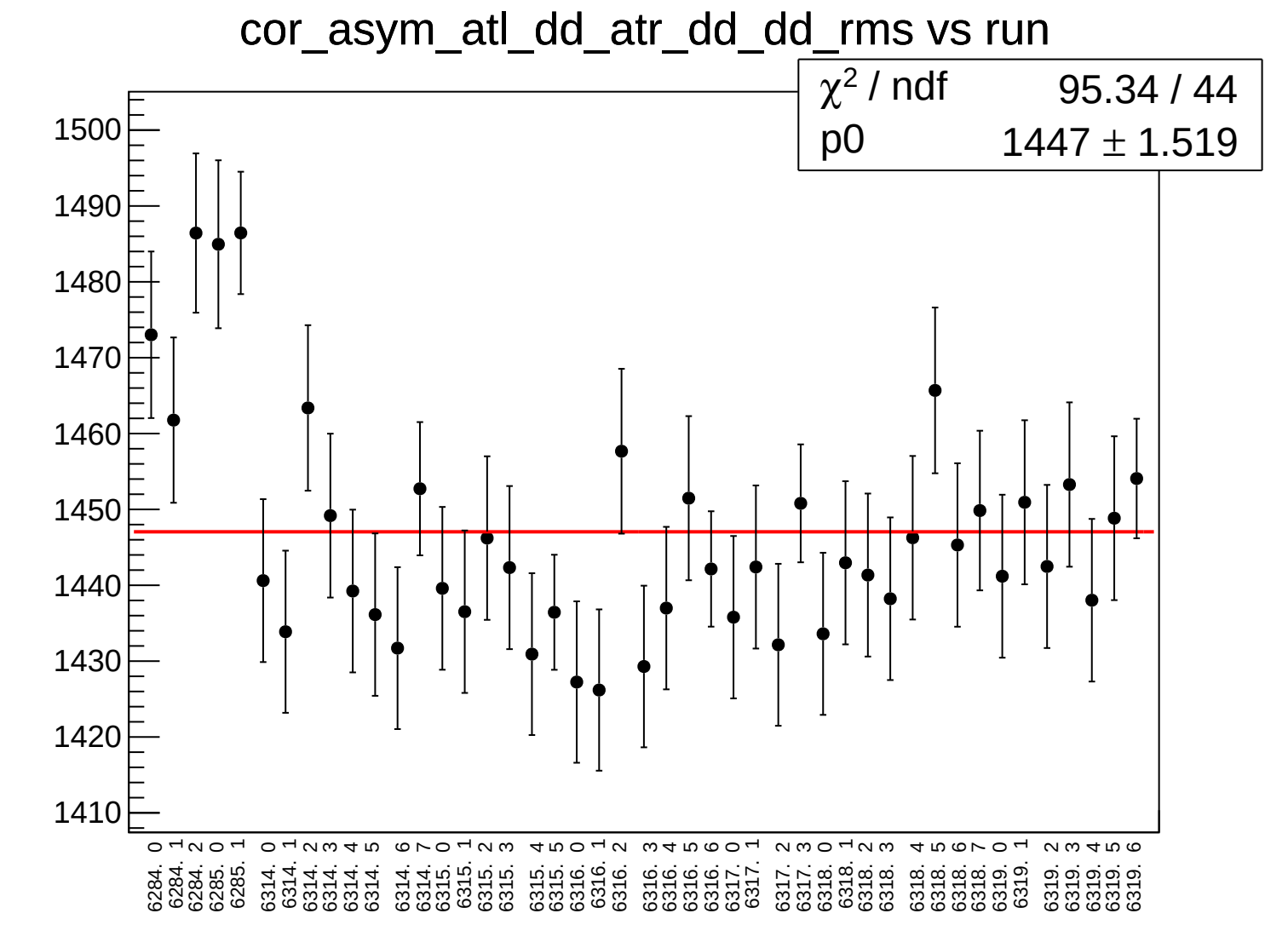
cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
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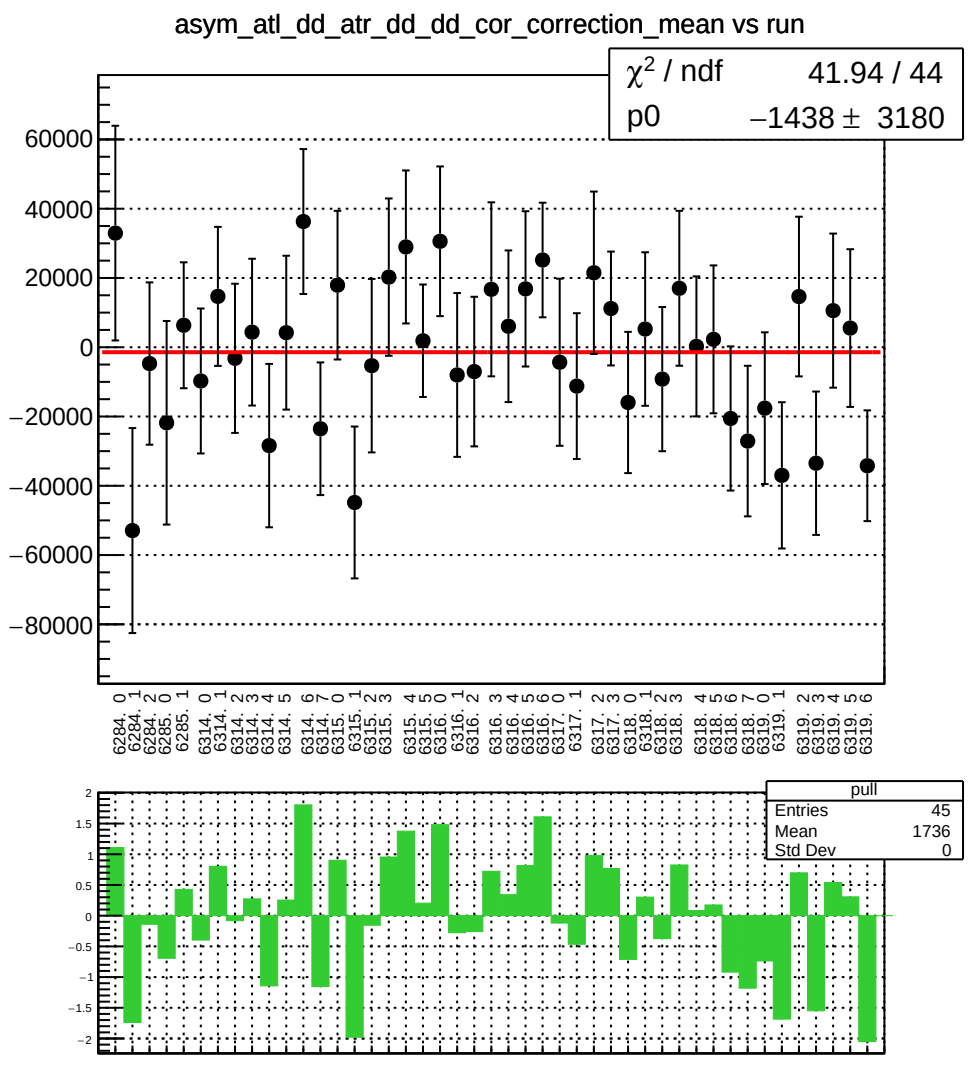
asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6316. 5
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6317. 3
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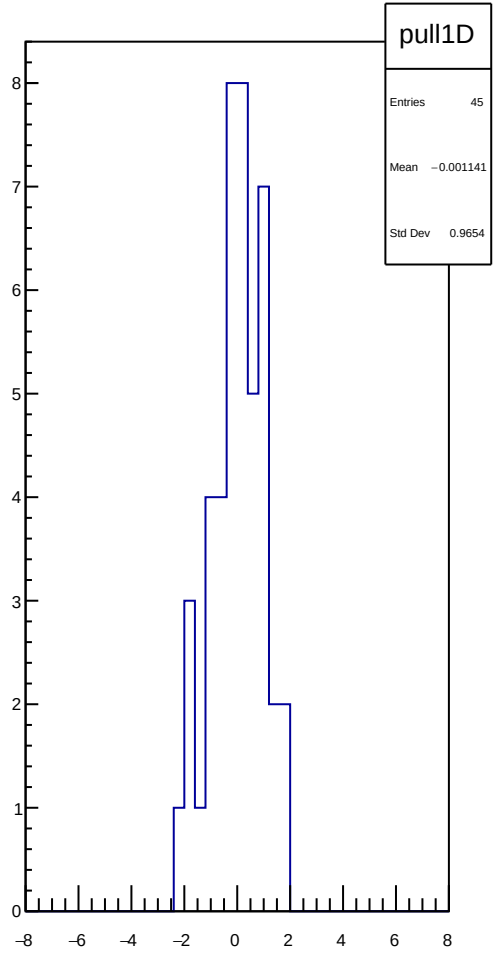
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1736
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001141
Std Dev 0.9654
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−4
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2
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6
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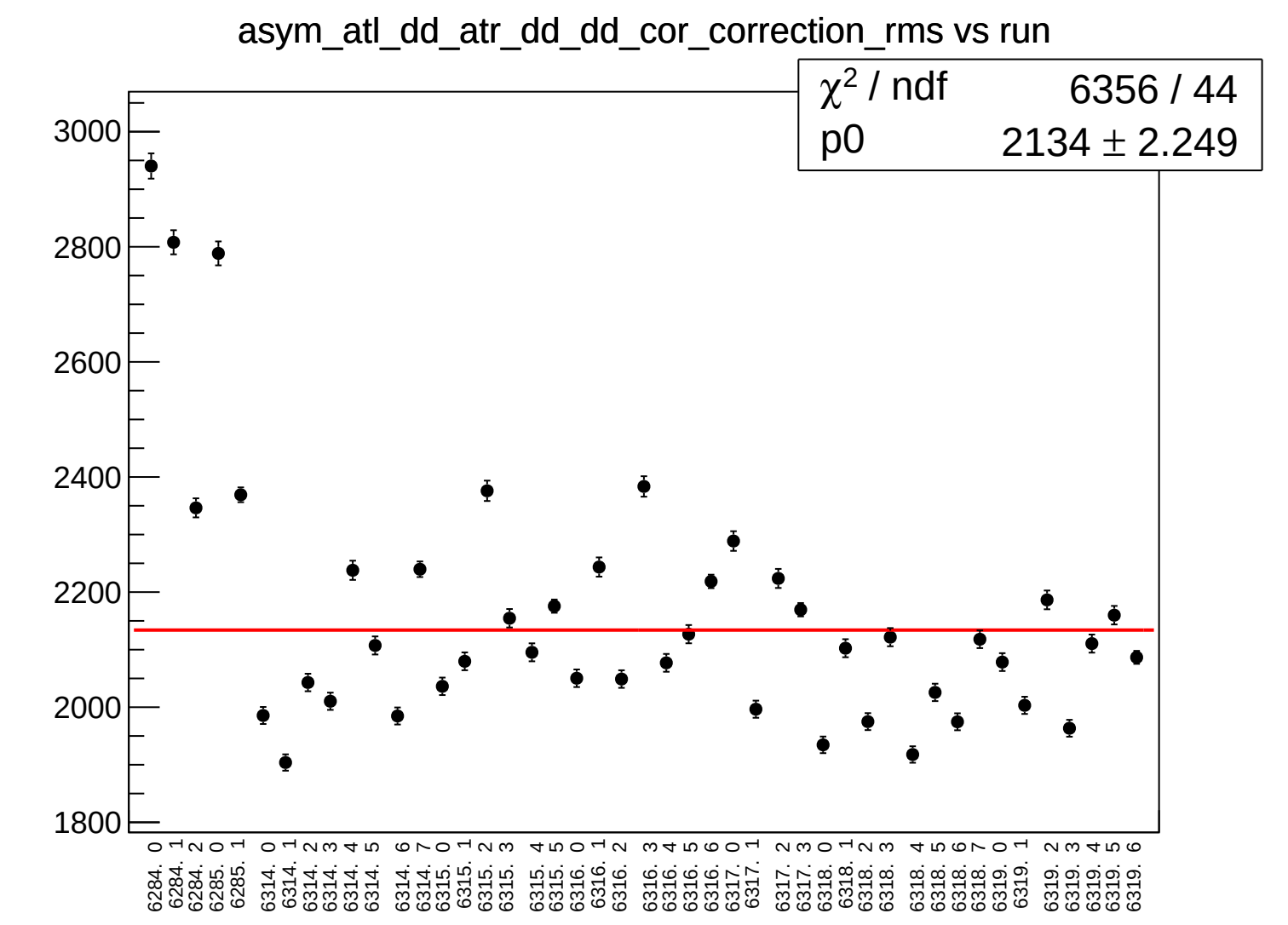
asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 4
6314. 5
6314. 6
6314. 7
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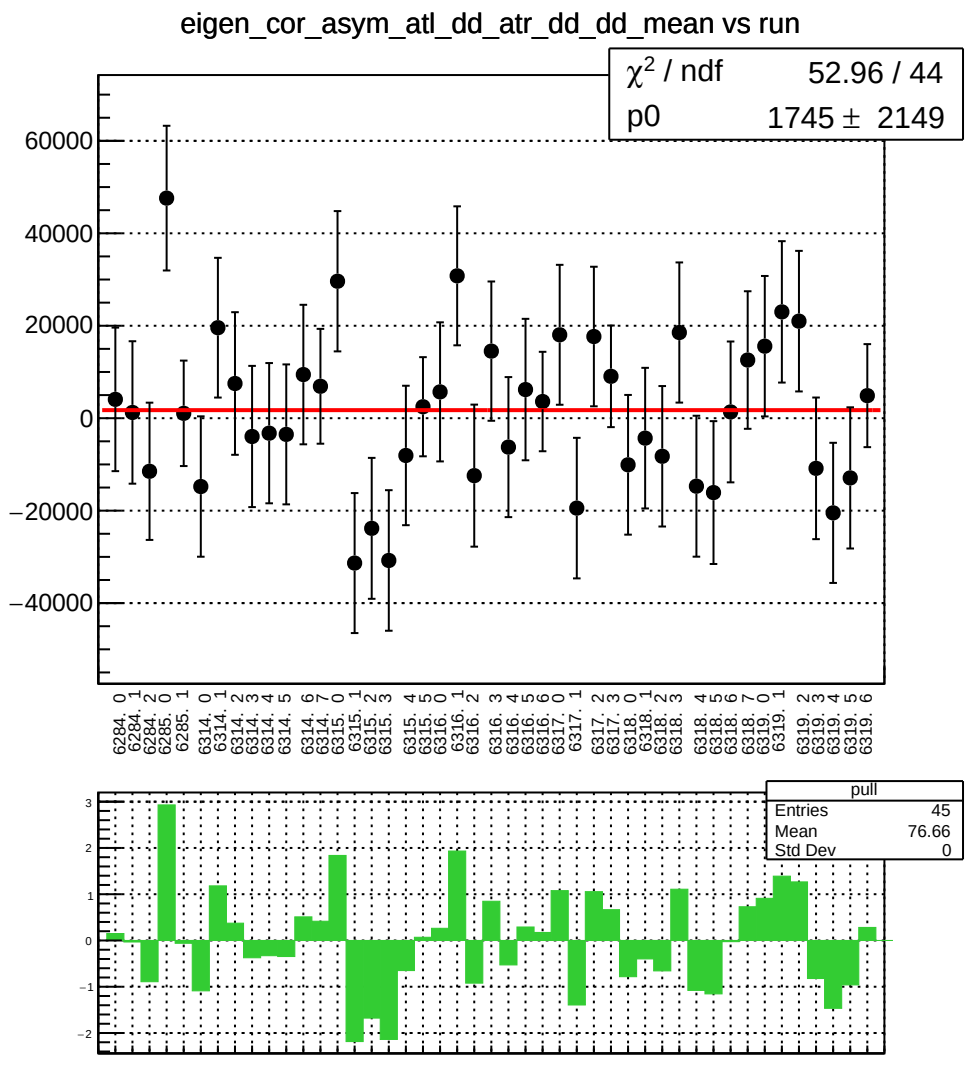
eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.96 / 44
p0 1745 ± 2149
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40000
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0
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−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
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6315. 0
6315. 1
6315. 2
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6316. 0
6316. 1
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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6319. 4
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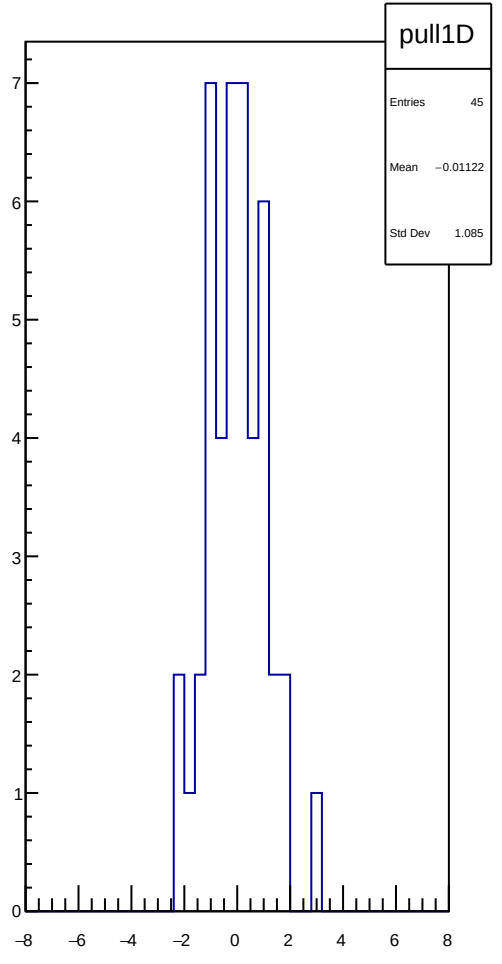
6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
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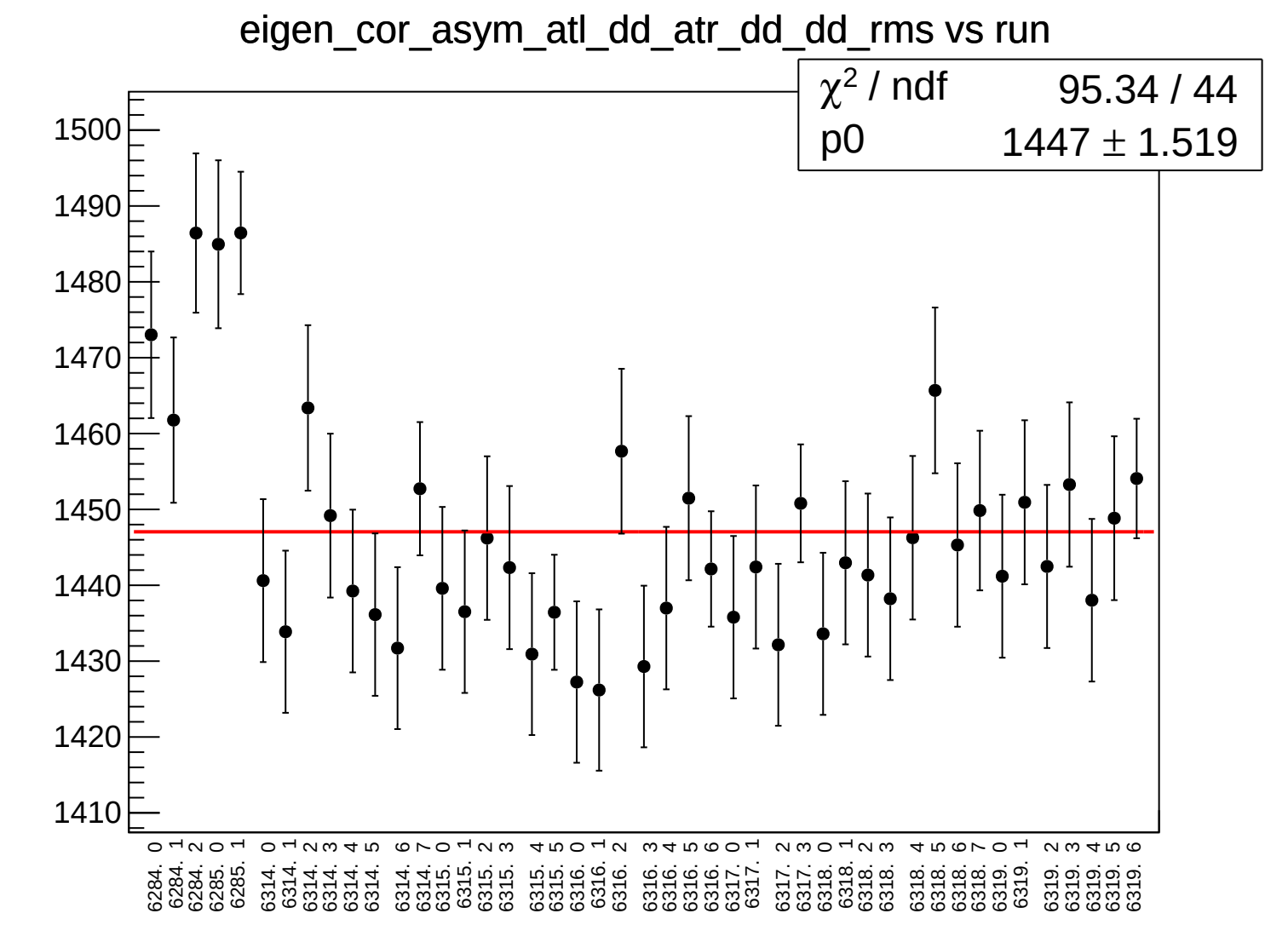
eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
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6284. 0
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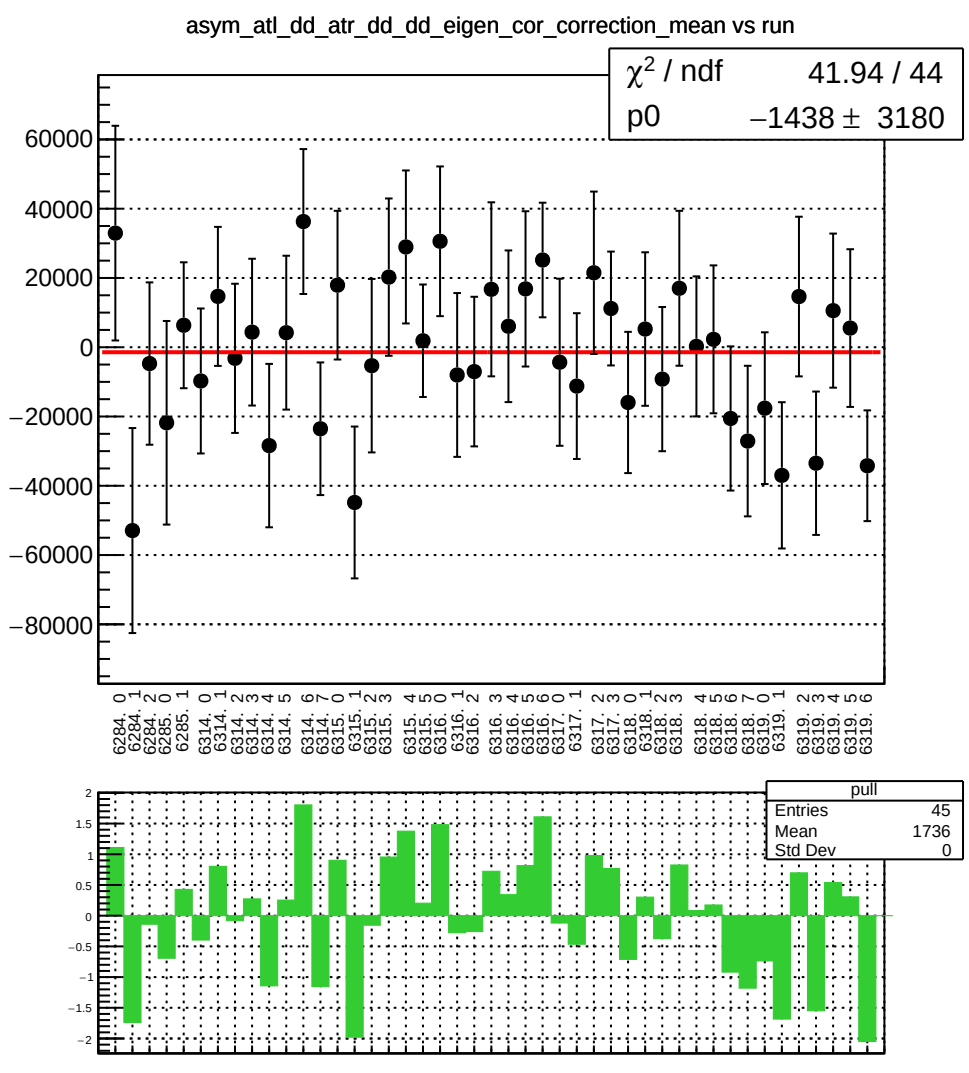
asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
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6314. 7
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pull
Entries 45
Mean 1736
Std Dev 0
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1
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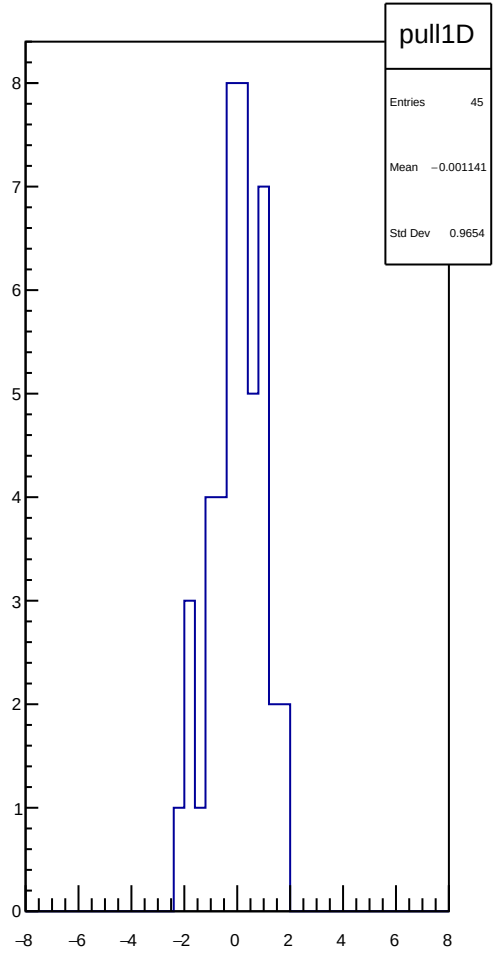
−1
−1.5
−2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Mean −0.001141
Std Dev 0.9654
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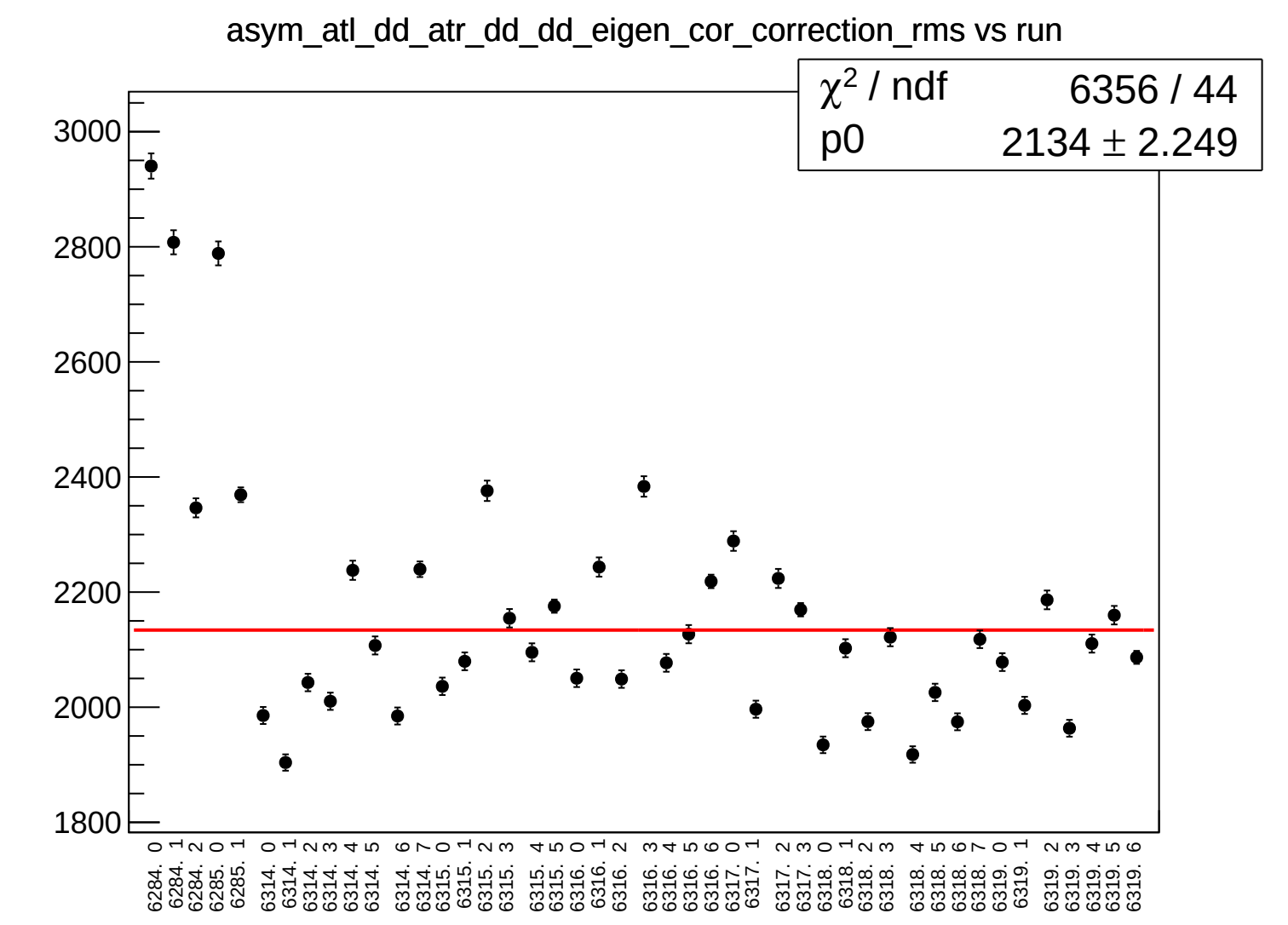
asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 1
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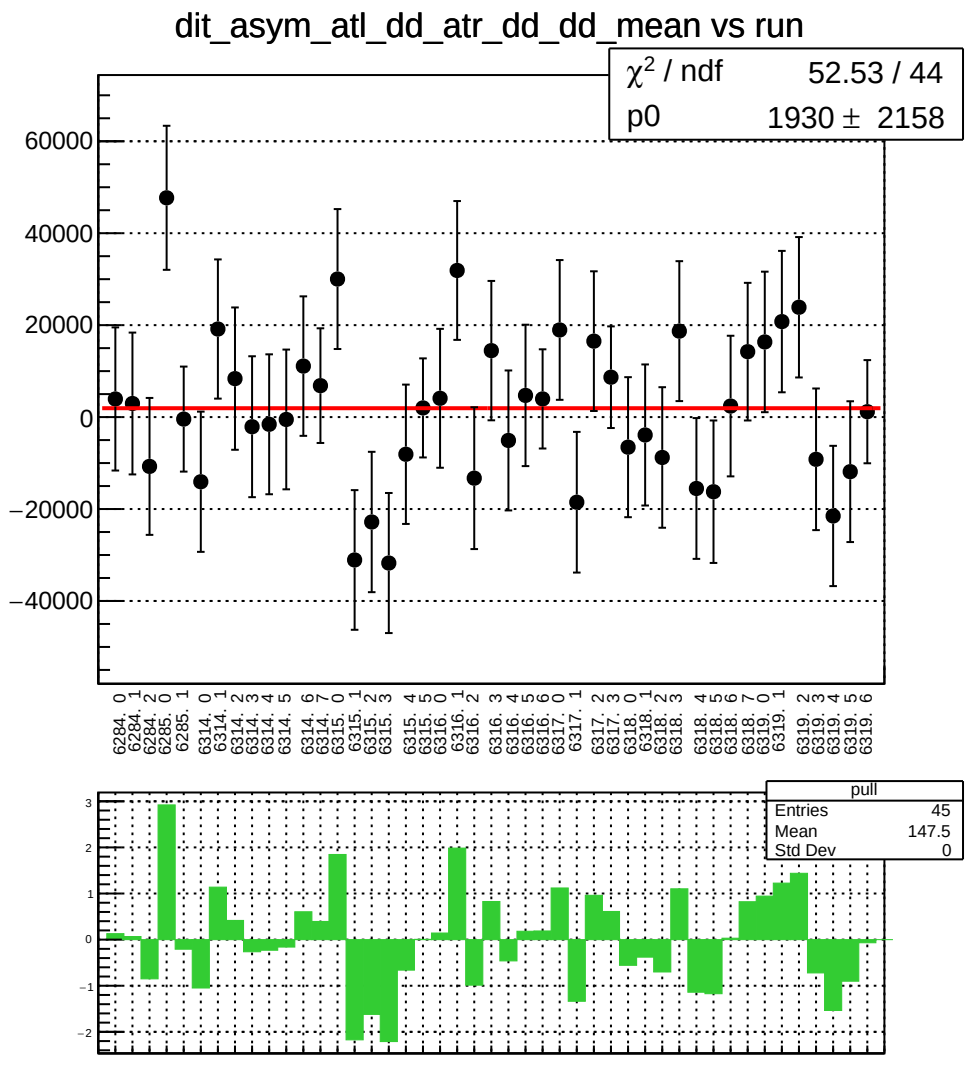
dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.53 / 44
p0 1930 ± 2158
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40000
20000
0
−20000
−40000
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6284. 1
6284. 2
6285. 0
6285. 1
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.006408
Std Dev 1.08
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1
0
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−6
−4
−2
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4
6
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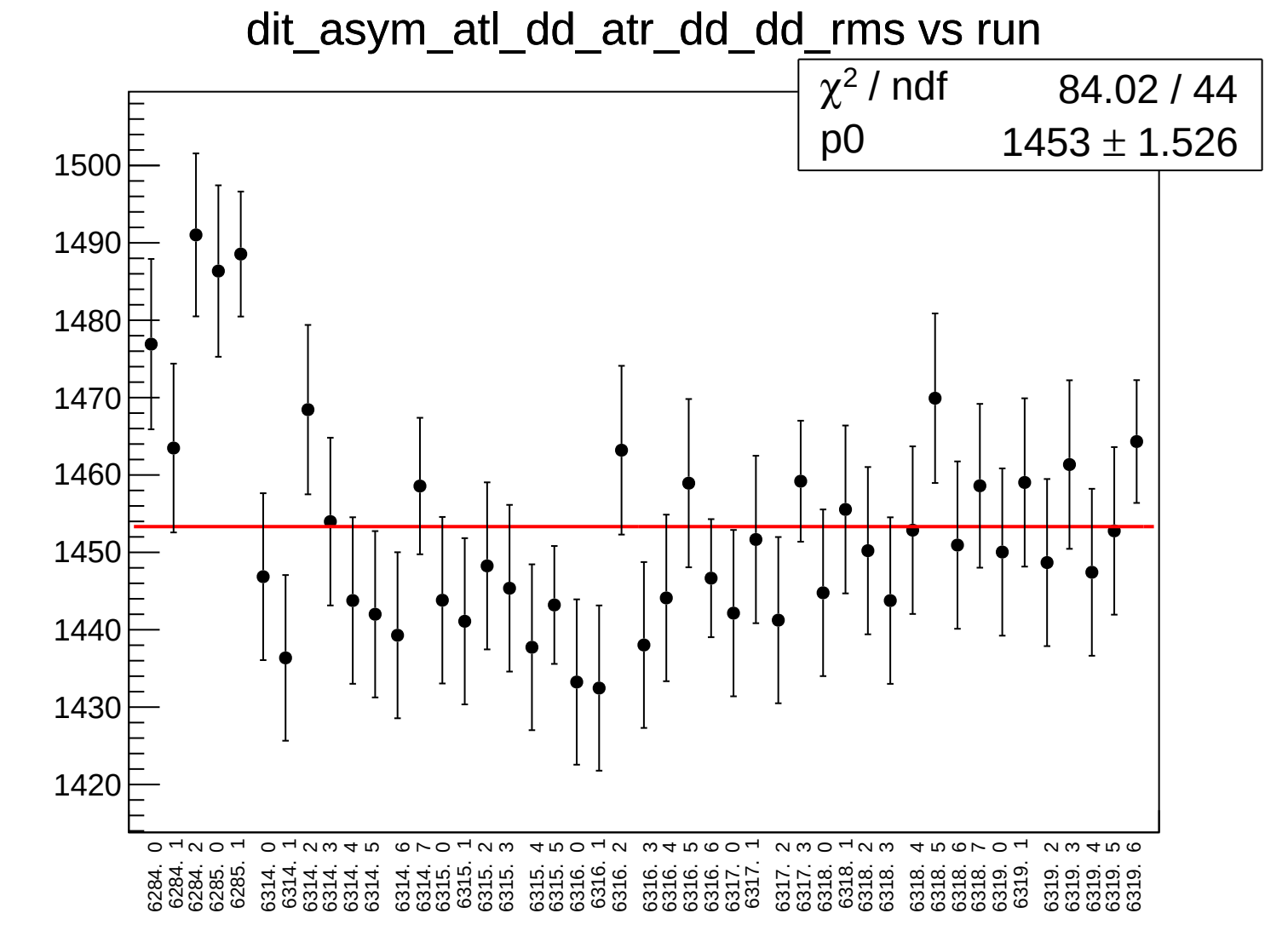
dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 84.02 / 44
p0 1453 ± 1.526
1500
1490
1480
1470
1460
1450
1440
1430
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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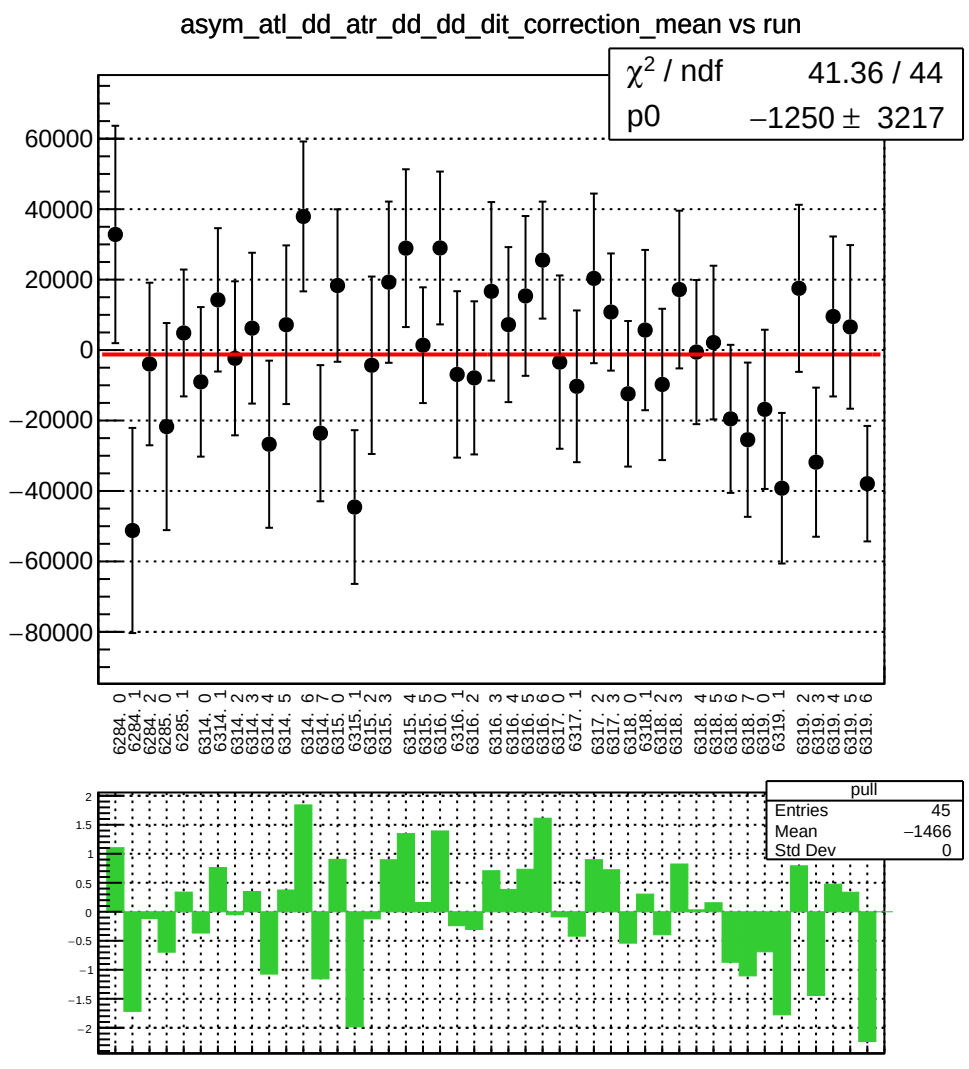
asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 41.36 / 44
p0 −1250 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
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6317. 2
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6318. 7
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6319. 2
6319. 3
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6319. 5
6319. 6
pull
Entries 45
Mean −1466
Std Dev 0
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1
0.5
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−1.5
−2
pull1D
Entries 45
Mean 0.001357
Std Dev 0.9587
9
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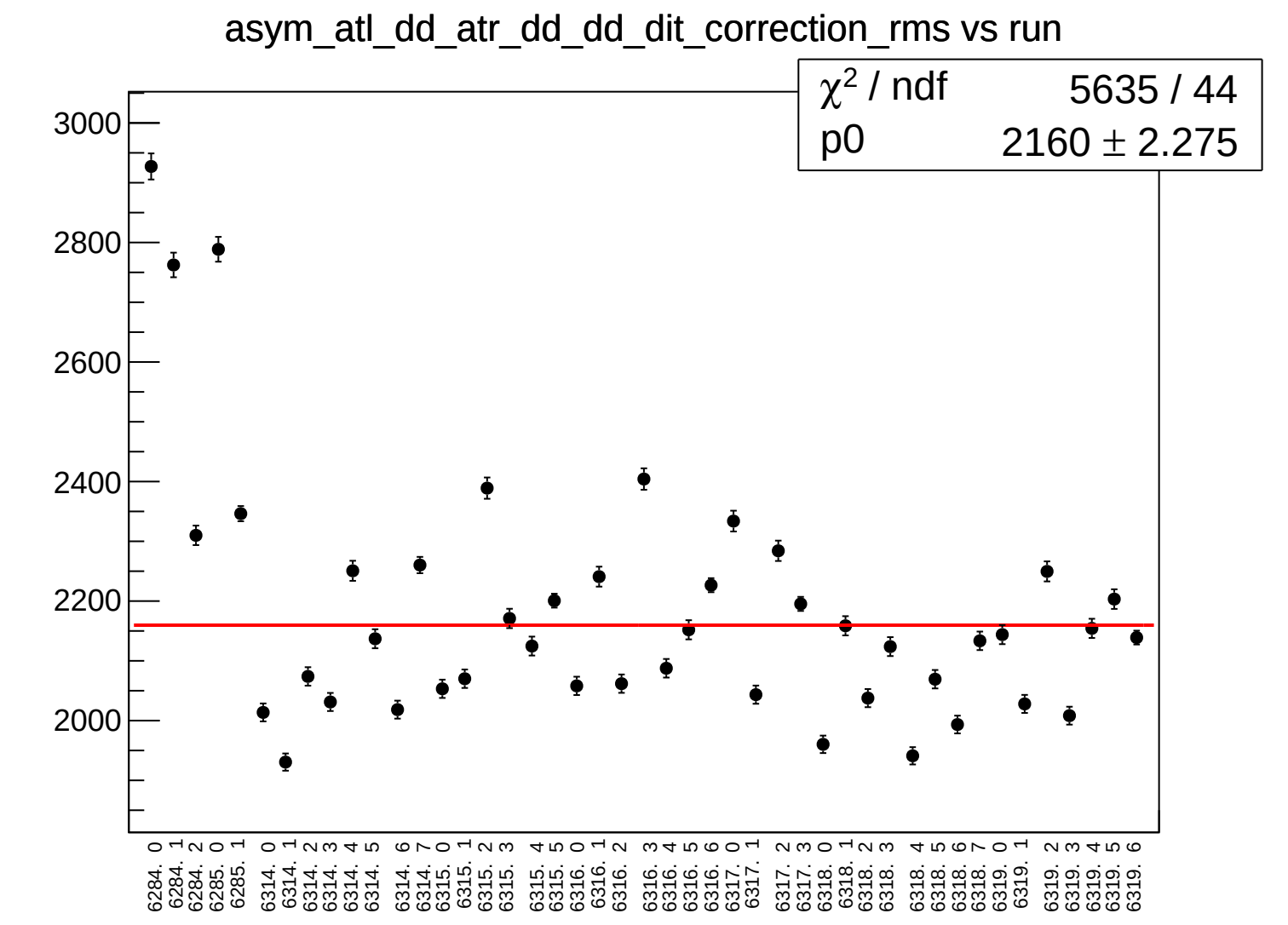
6
8


asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 5635 / 44
p0 2160 ± 2.275
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2400
2200
2000
6284. 0
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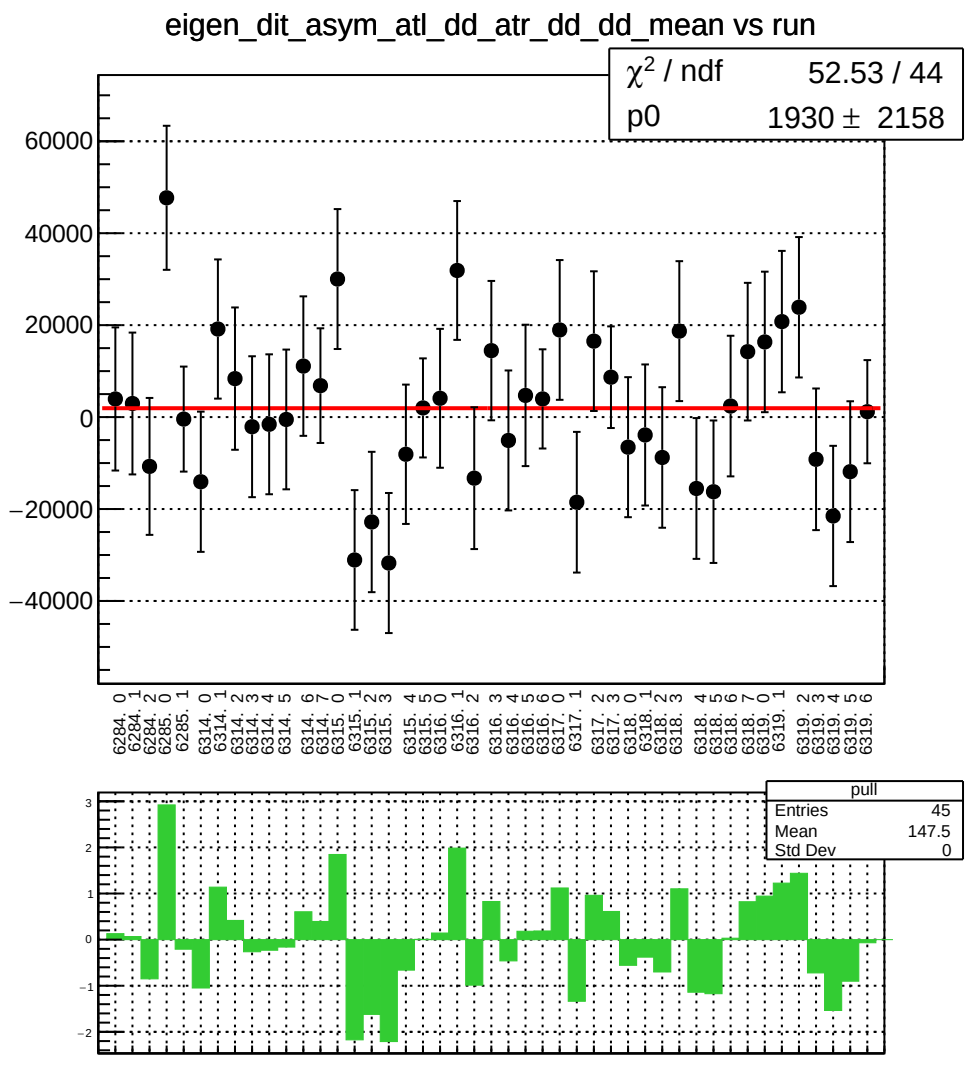
eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.53 / 44
p0 1930 ± 2158
60000
40000
20000
0
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−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.006408
Std Dev 1.08
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−4
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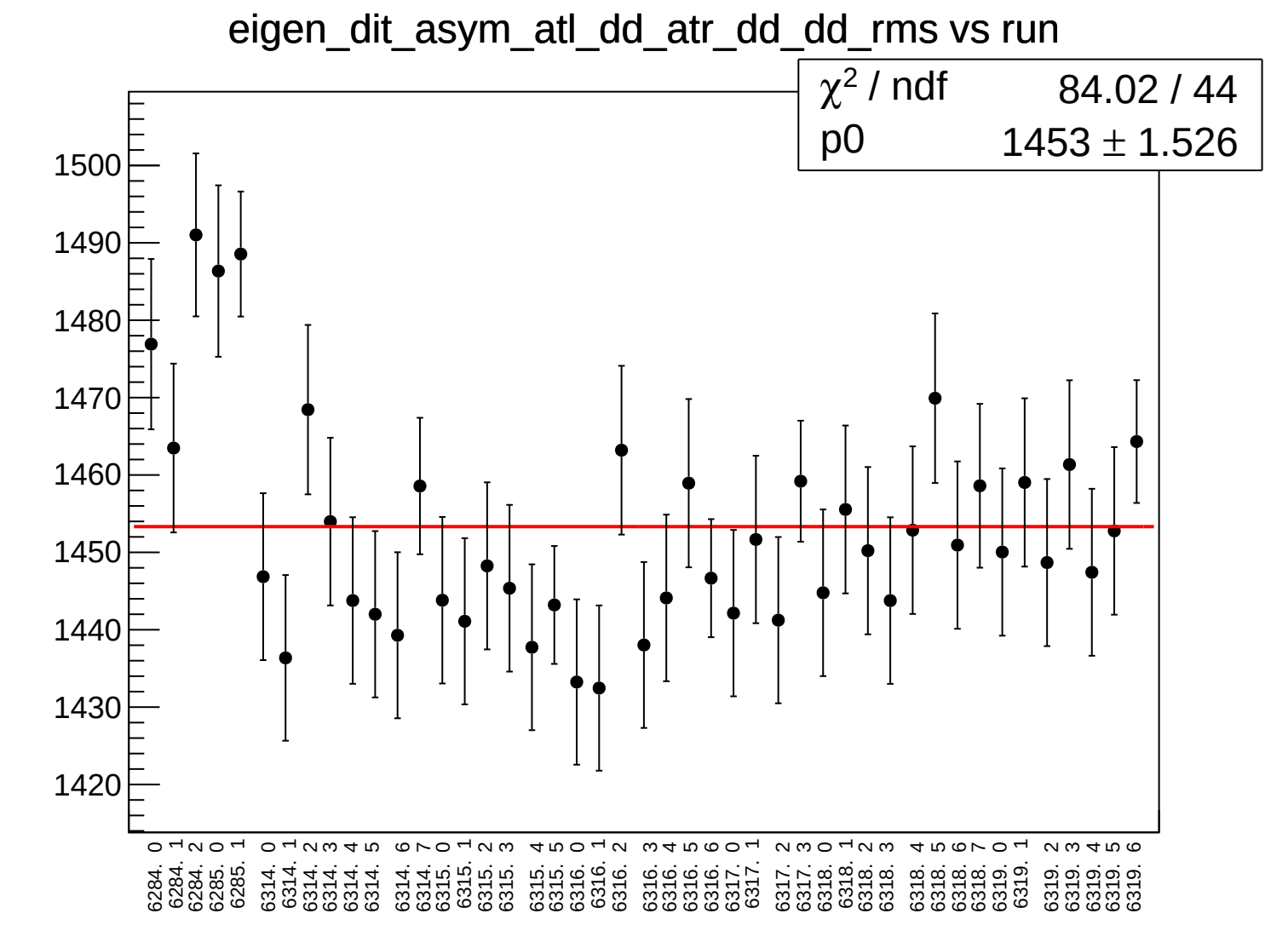
eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 84.02 / 44
p0 1453 ± 1.526
1500
1490
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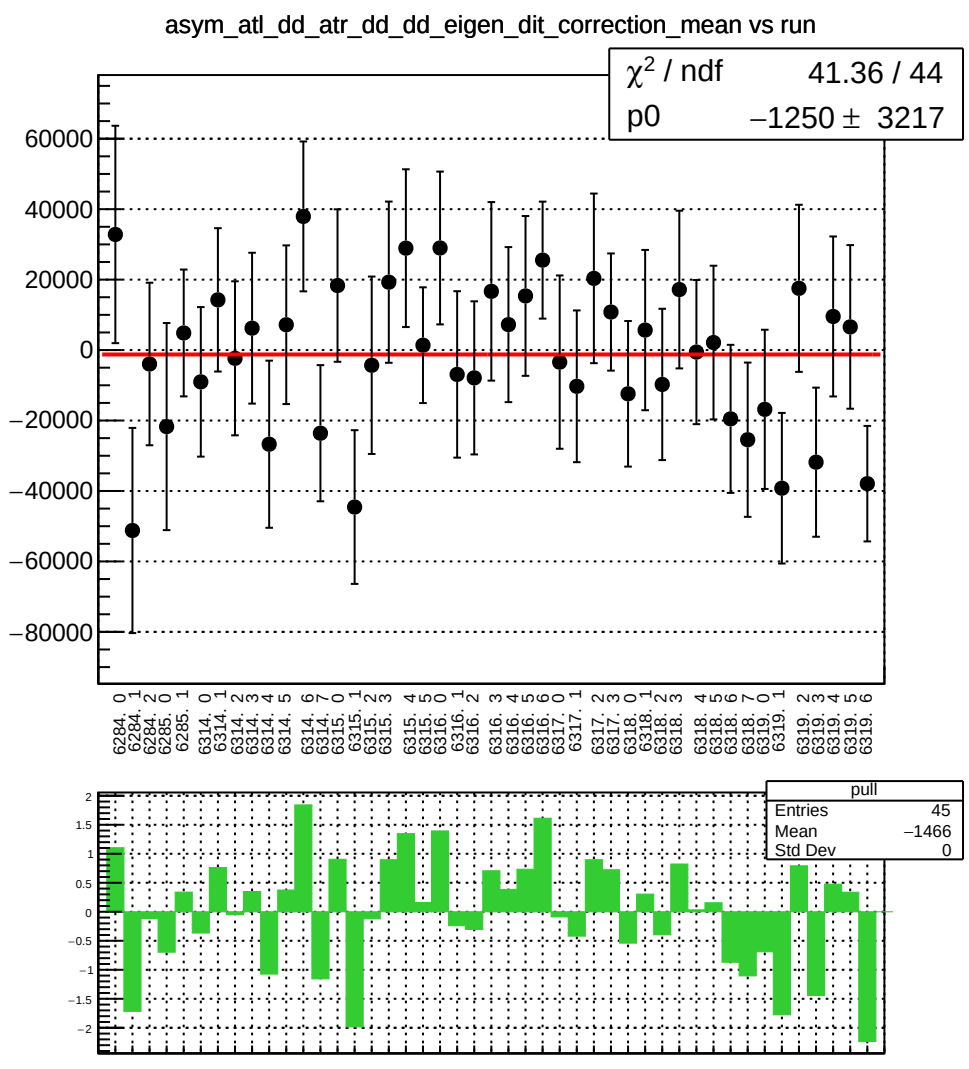
asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.36 / 44
p0 −1250 ± 3217
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40000
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−20000
−40000
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−80000
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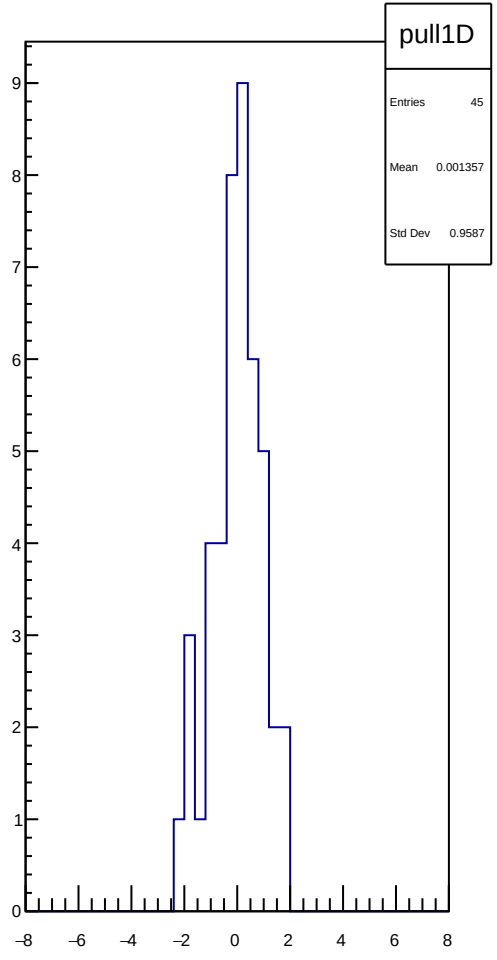
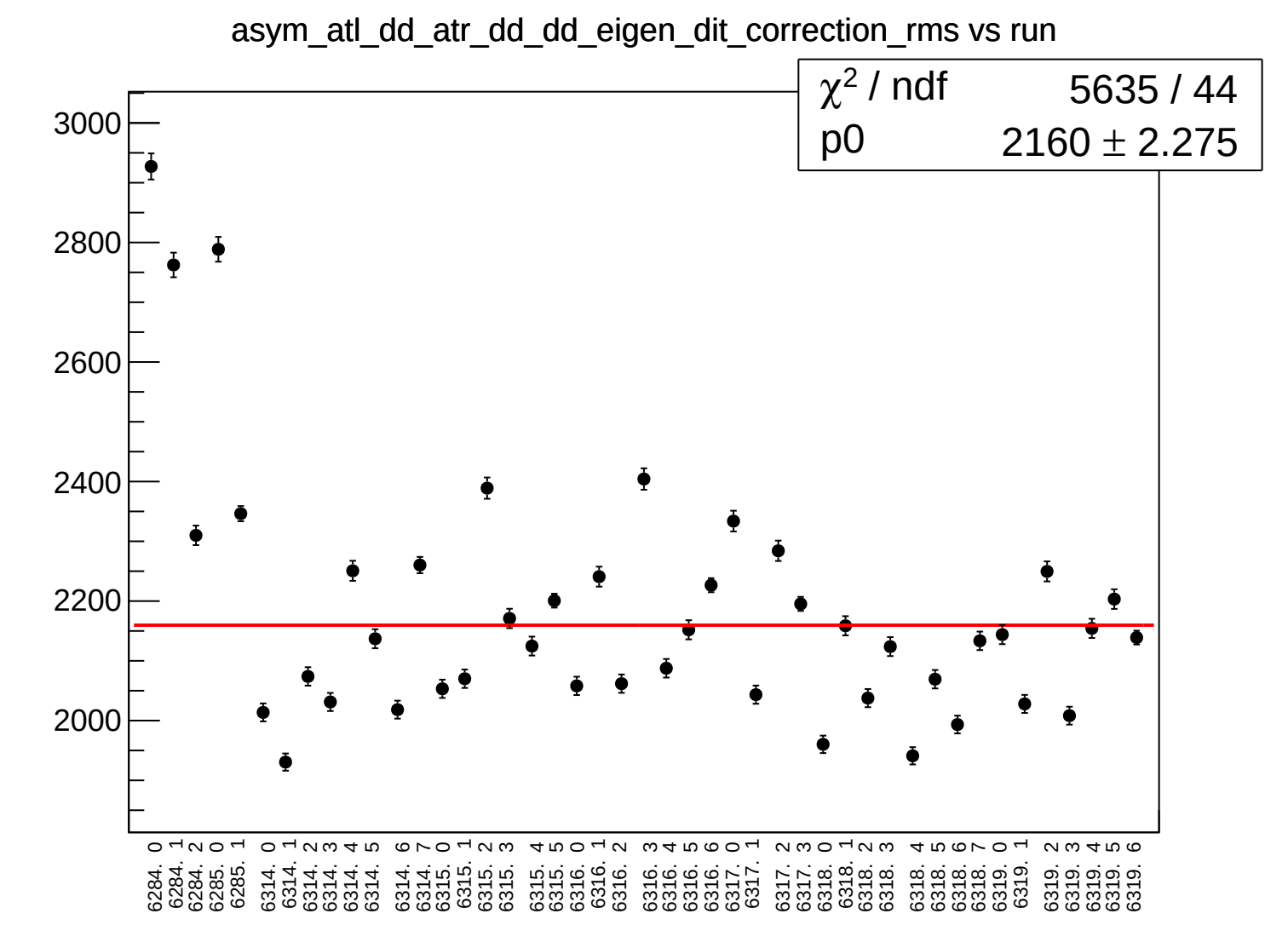
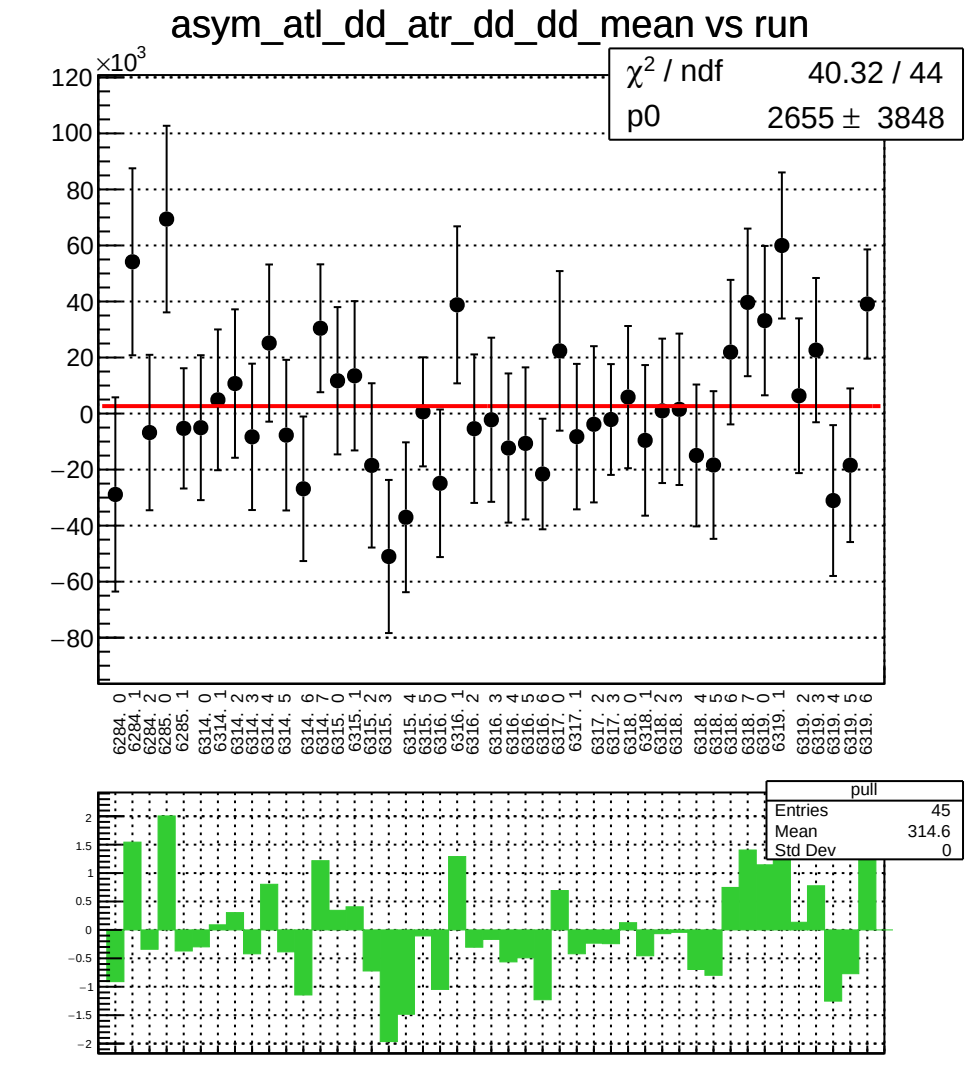
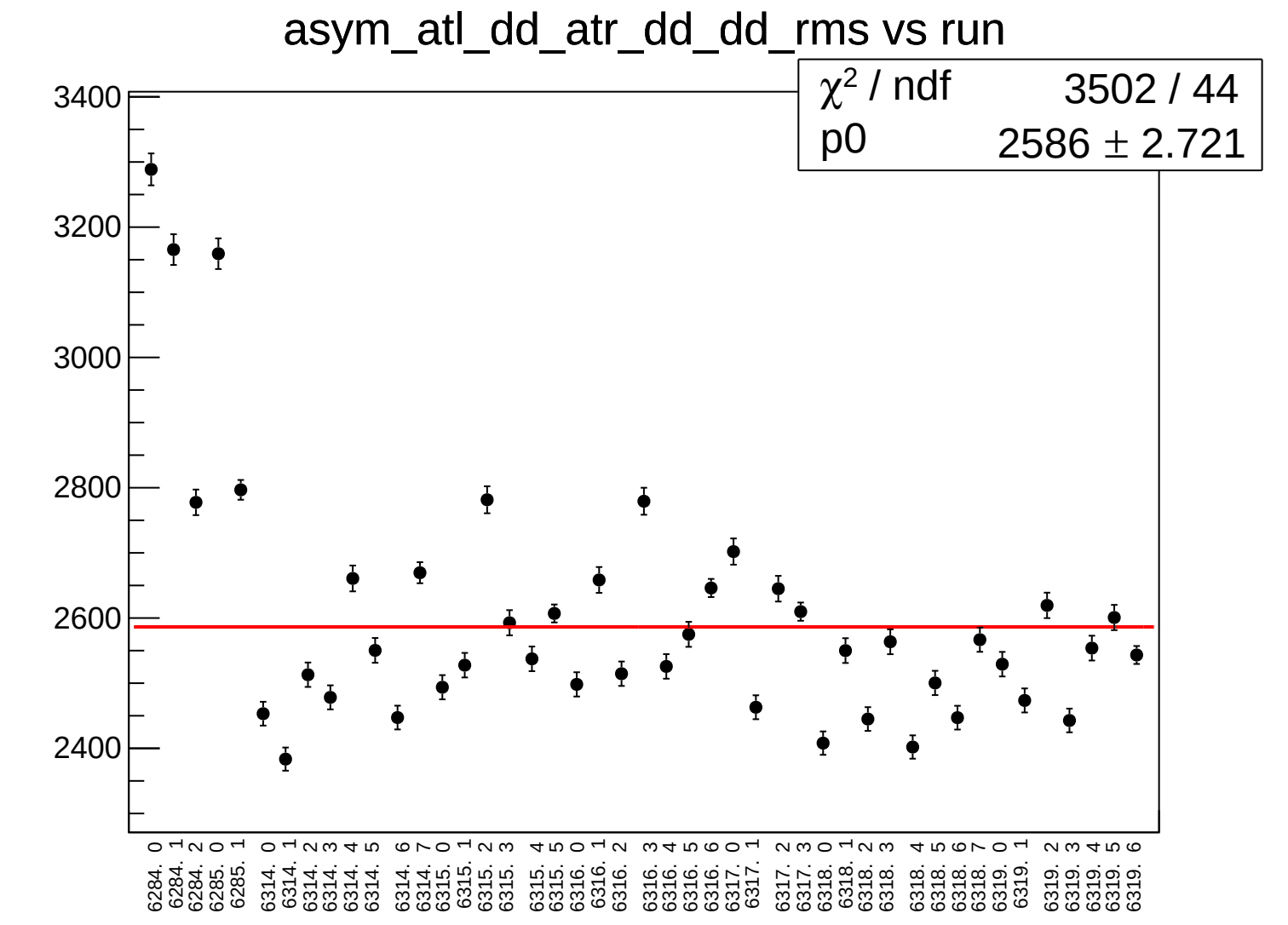
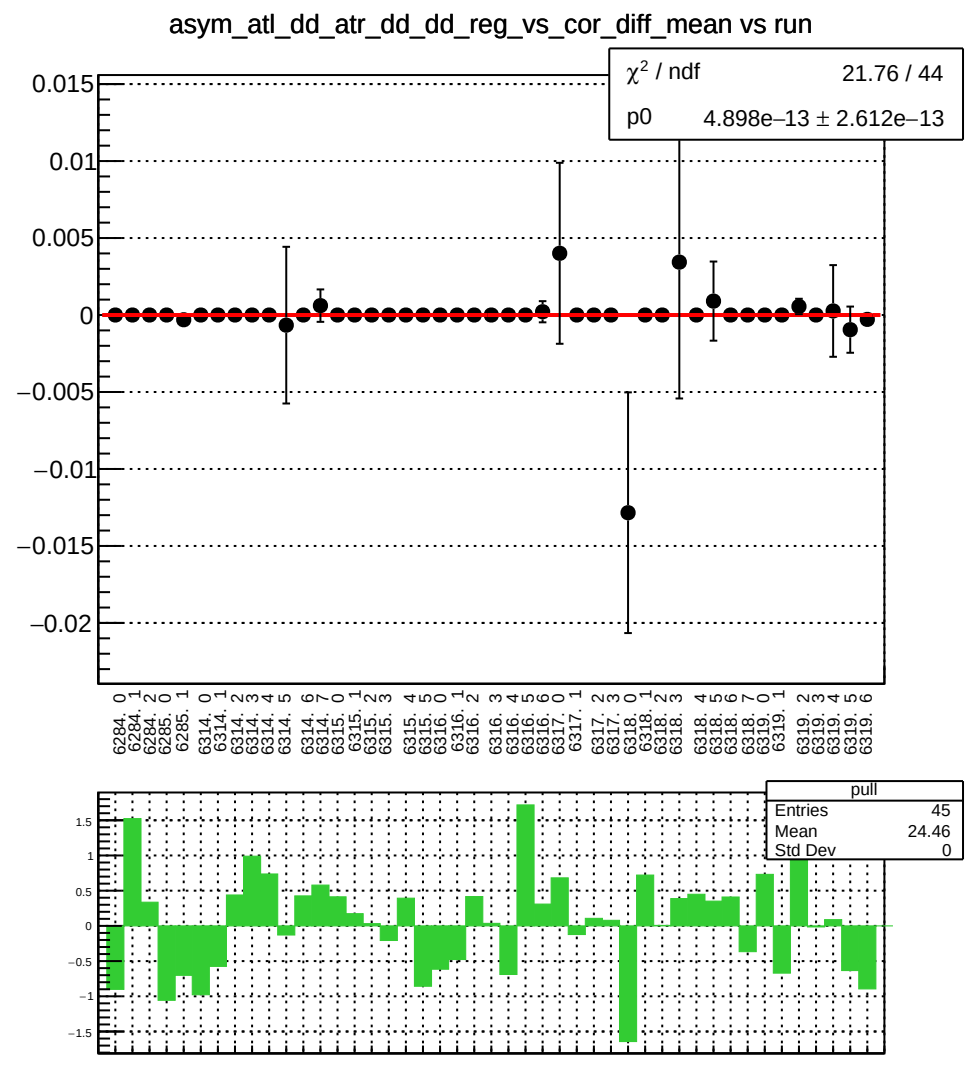
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1466
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

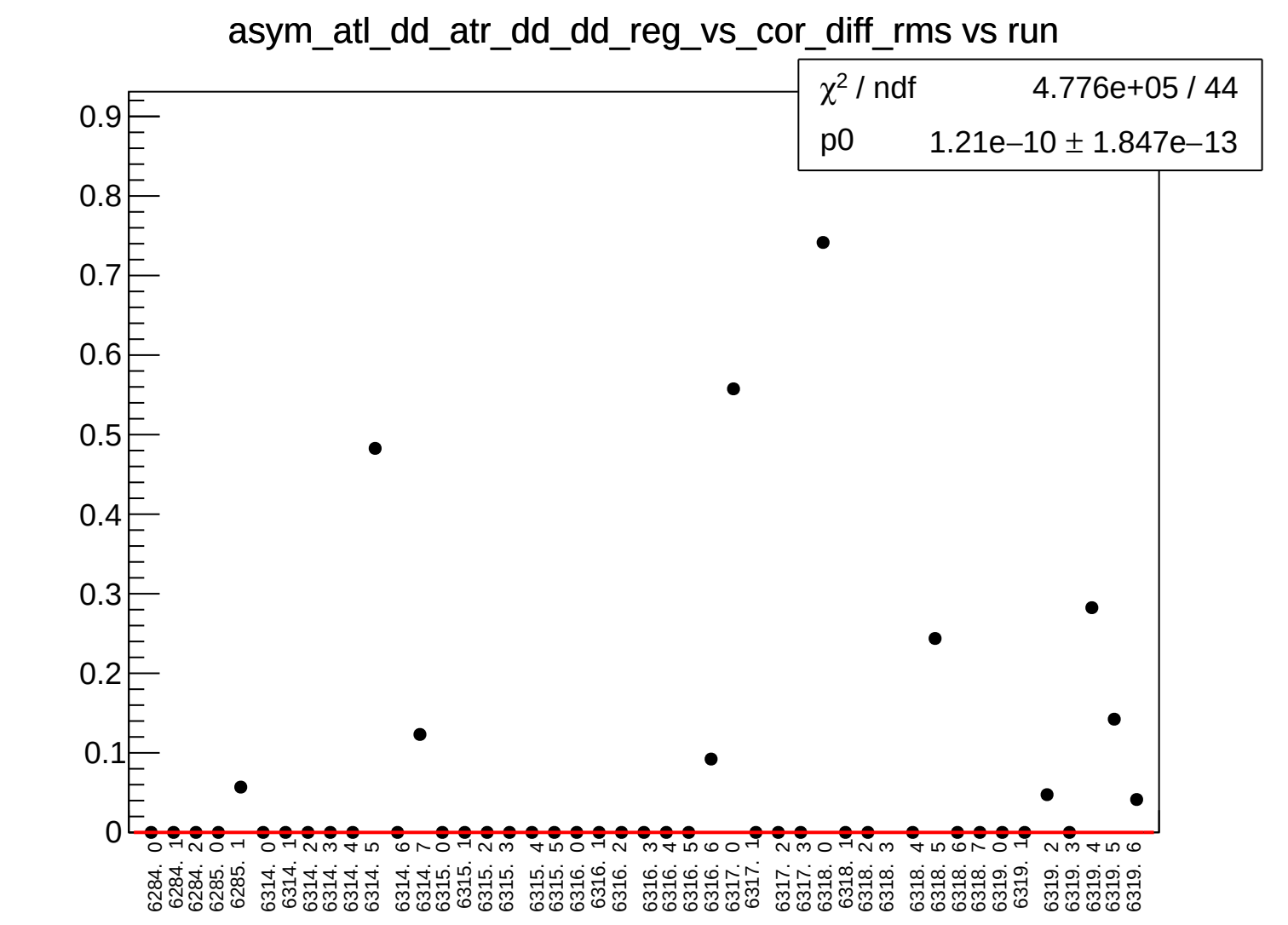

pull1D
Entries 45
Mean 0.001357
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

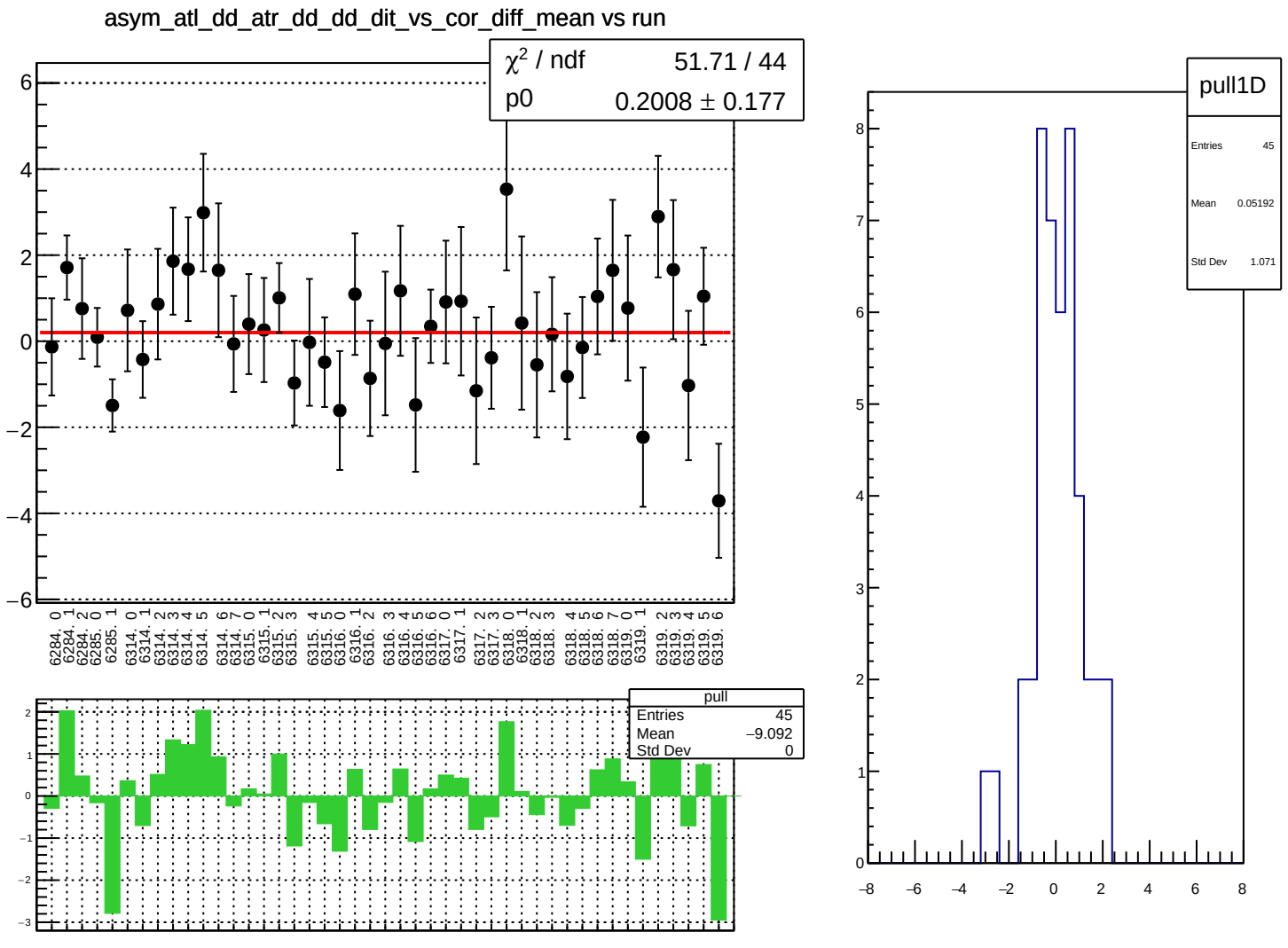

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5635 / 44
p0 2160 ± 2.275
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

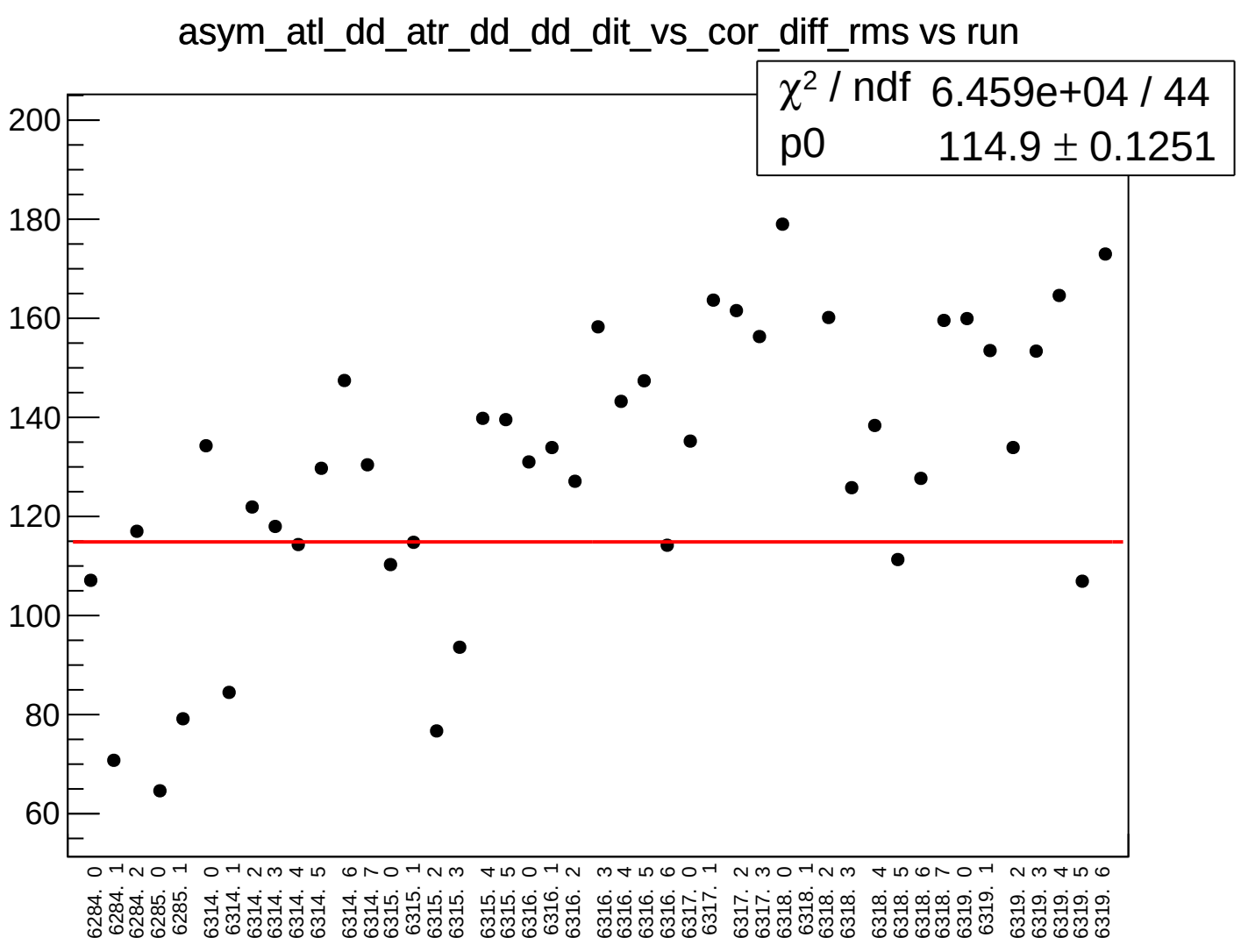

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 40.32 / 44
p0 2655 ± 3848
pull
Entries 45
Mean 314.6
Std Dev 0
pull1D
Entries 45
Mean 0.00422
Std Dev 0.9466

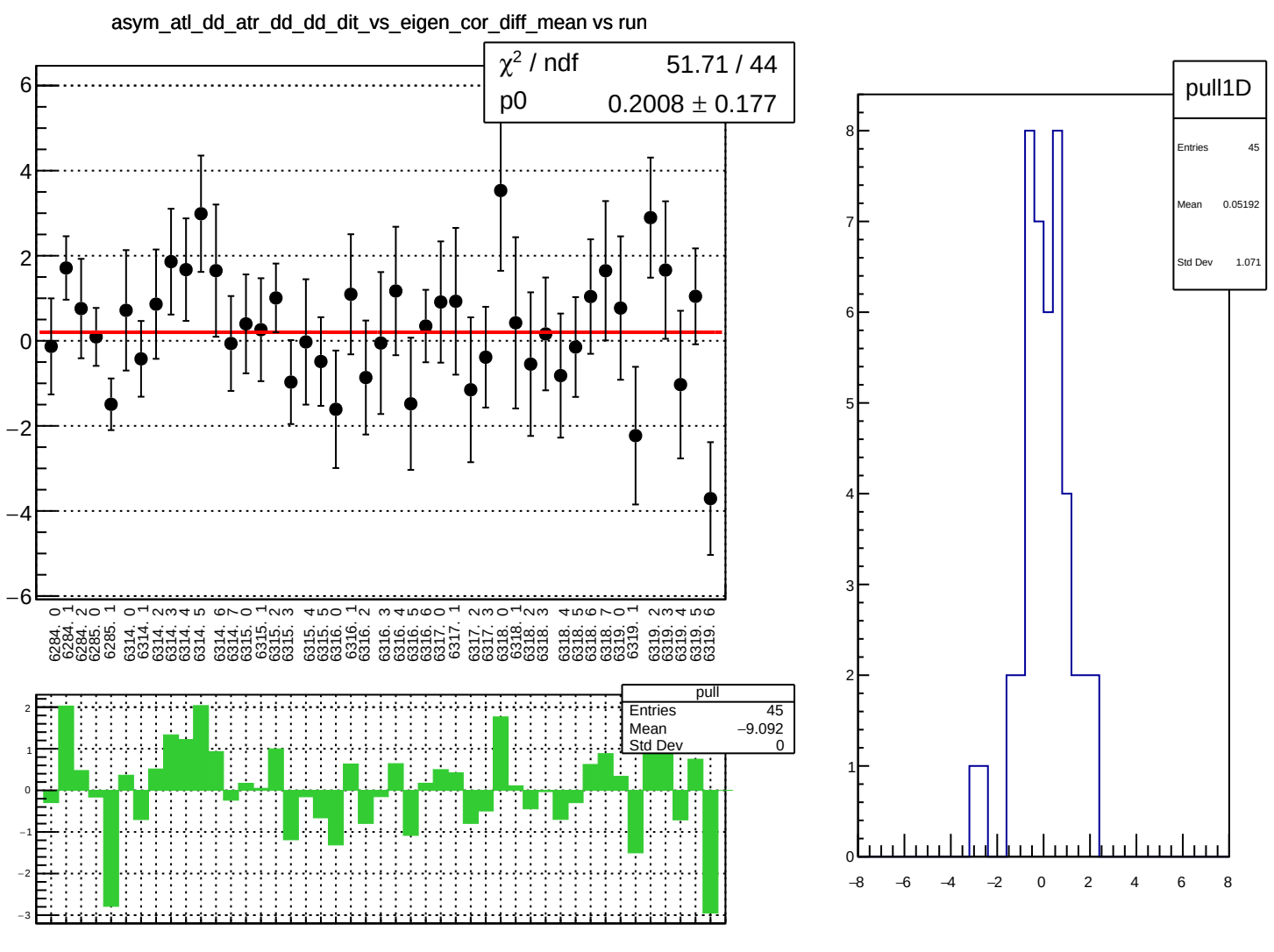

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3502 / 44
p0 2586 ± 2.721
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

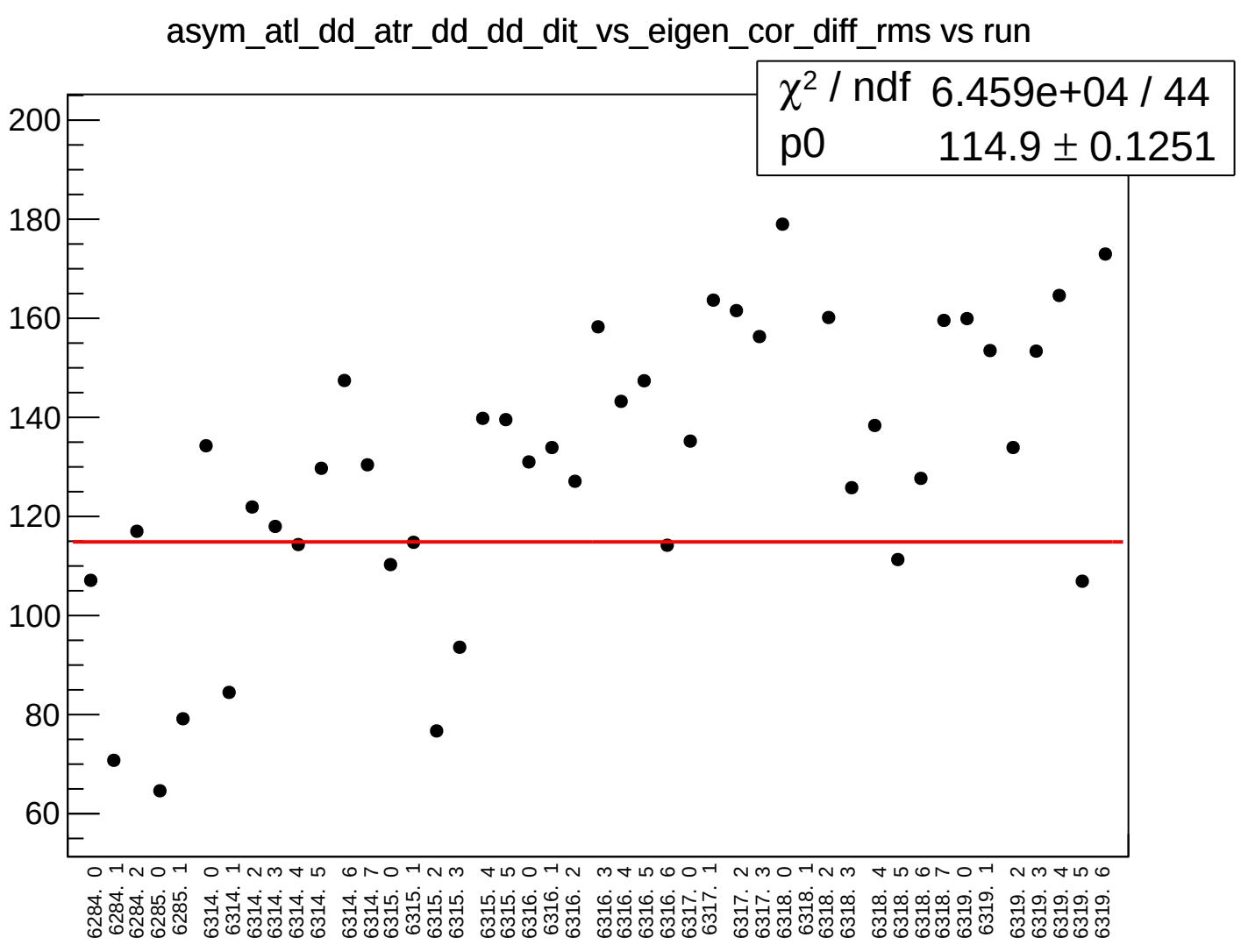

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.76 / 44
p0 4.898e−13 ± 2.612e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 24.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04694
Std Dev 0.6938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

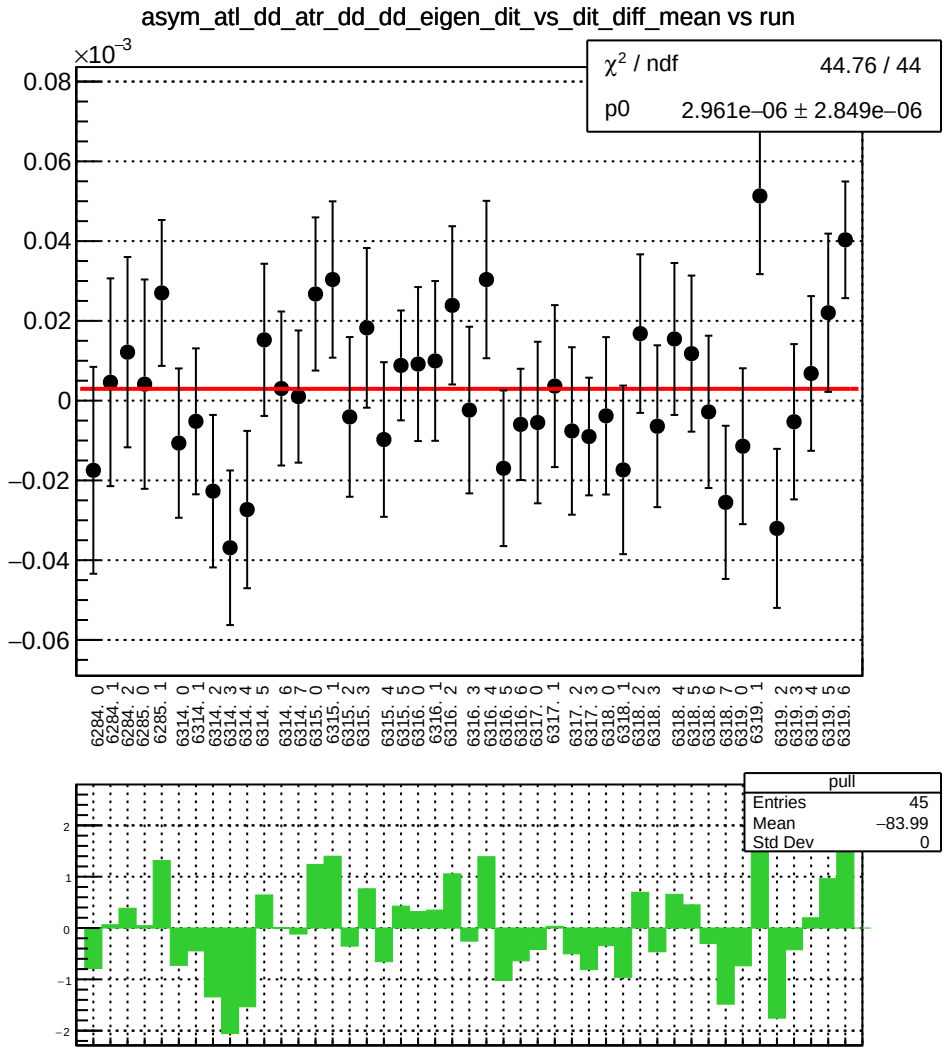

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.776e+05 / 44
p0 1.21e−10 ± 1.847e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

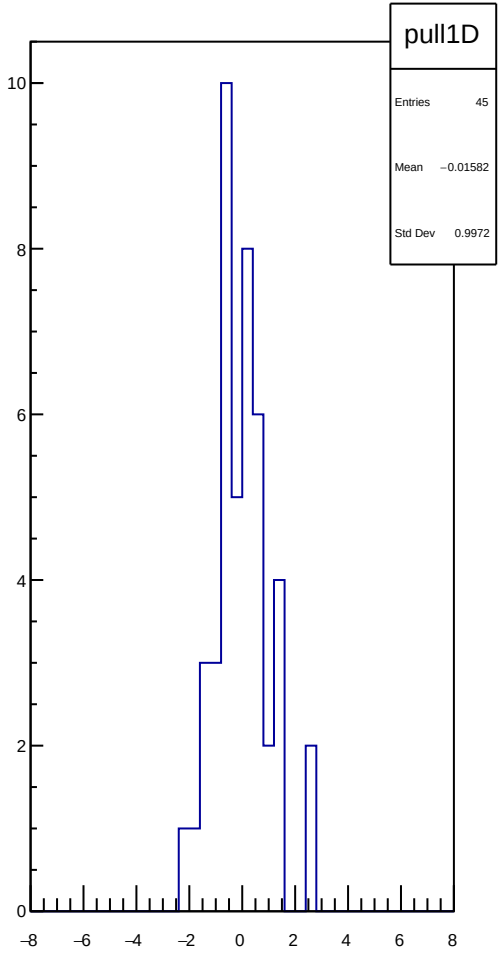

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
pull
Entries 45
Mean −9.092
Std Dev 0
pull1D
Entries 45
Mean 0.05192
Std Dev 1.071

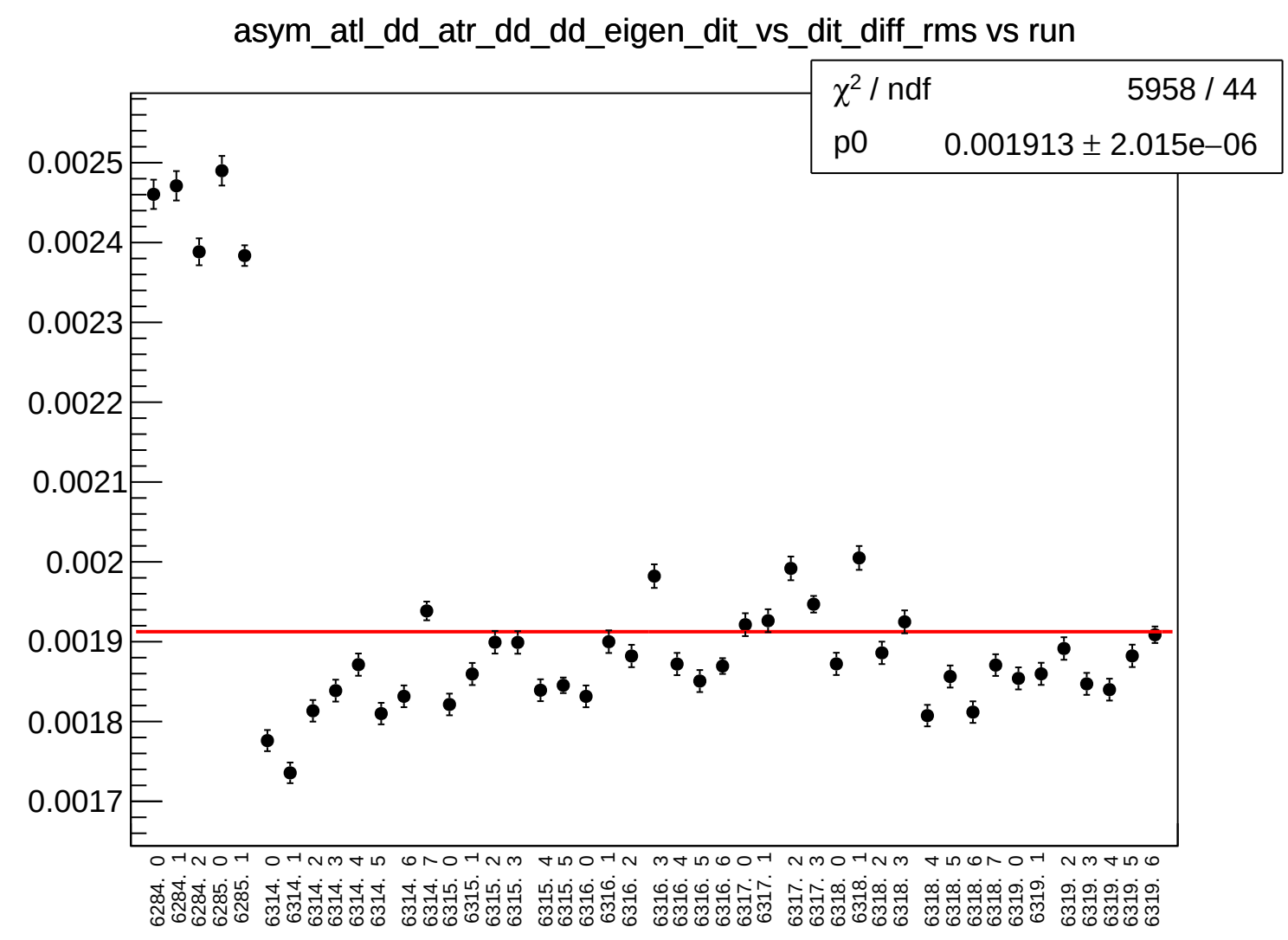

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

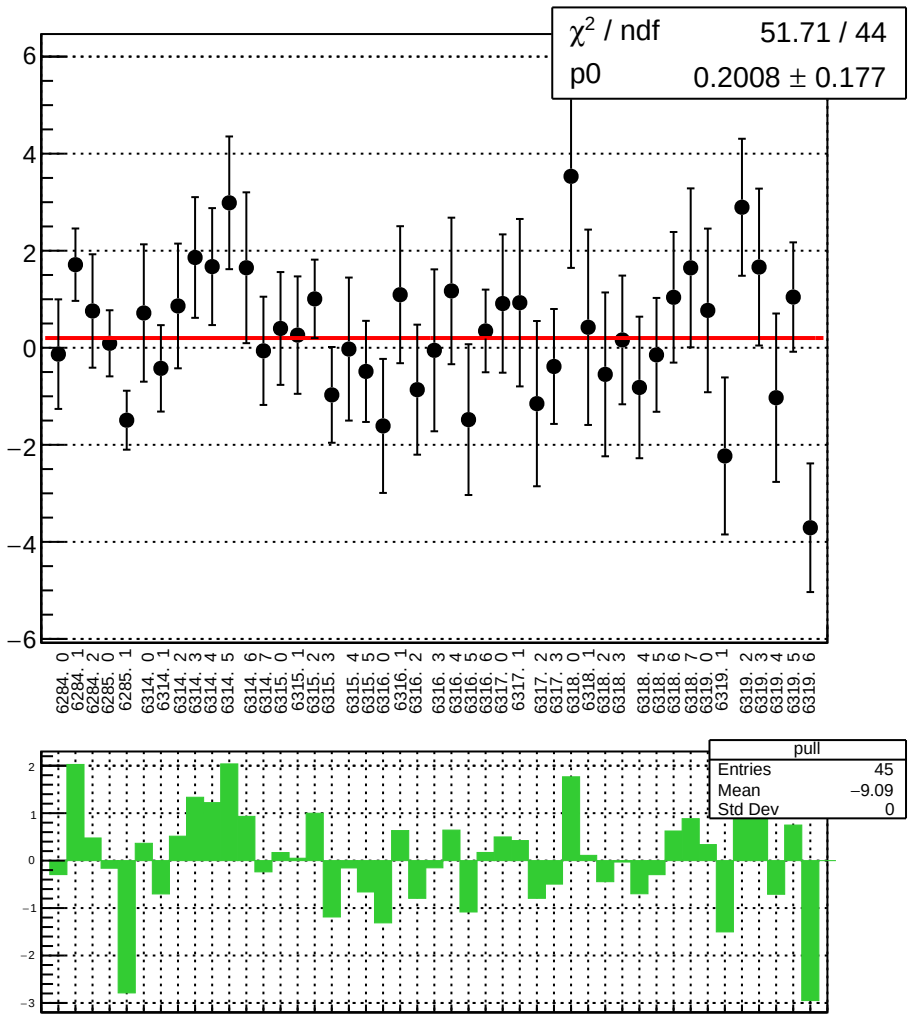

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −9.092
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.05192
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

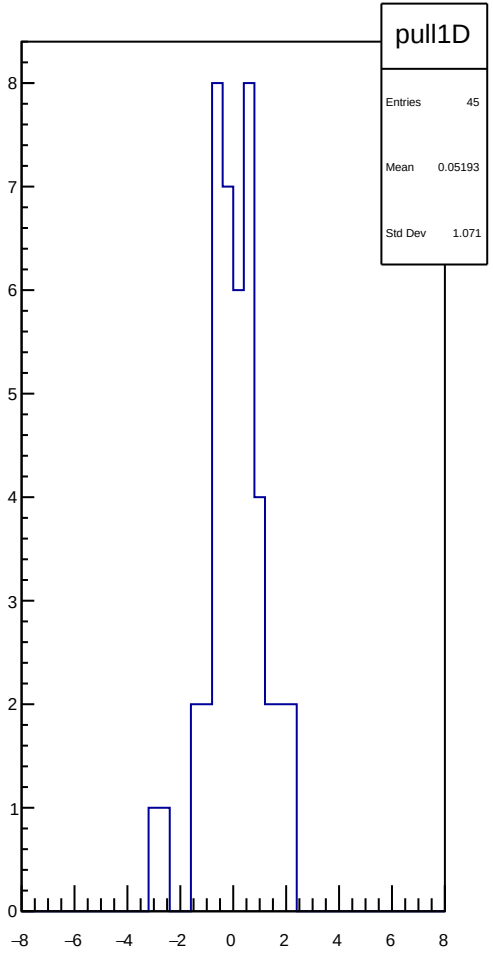

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

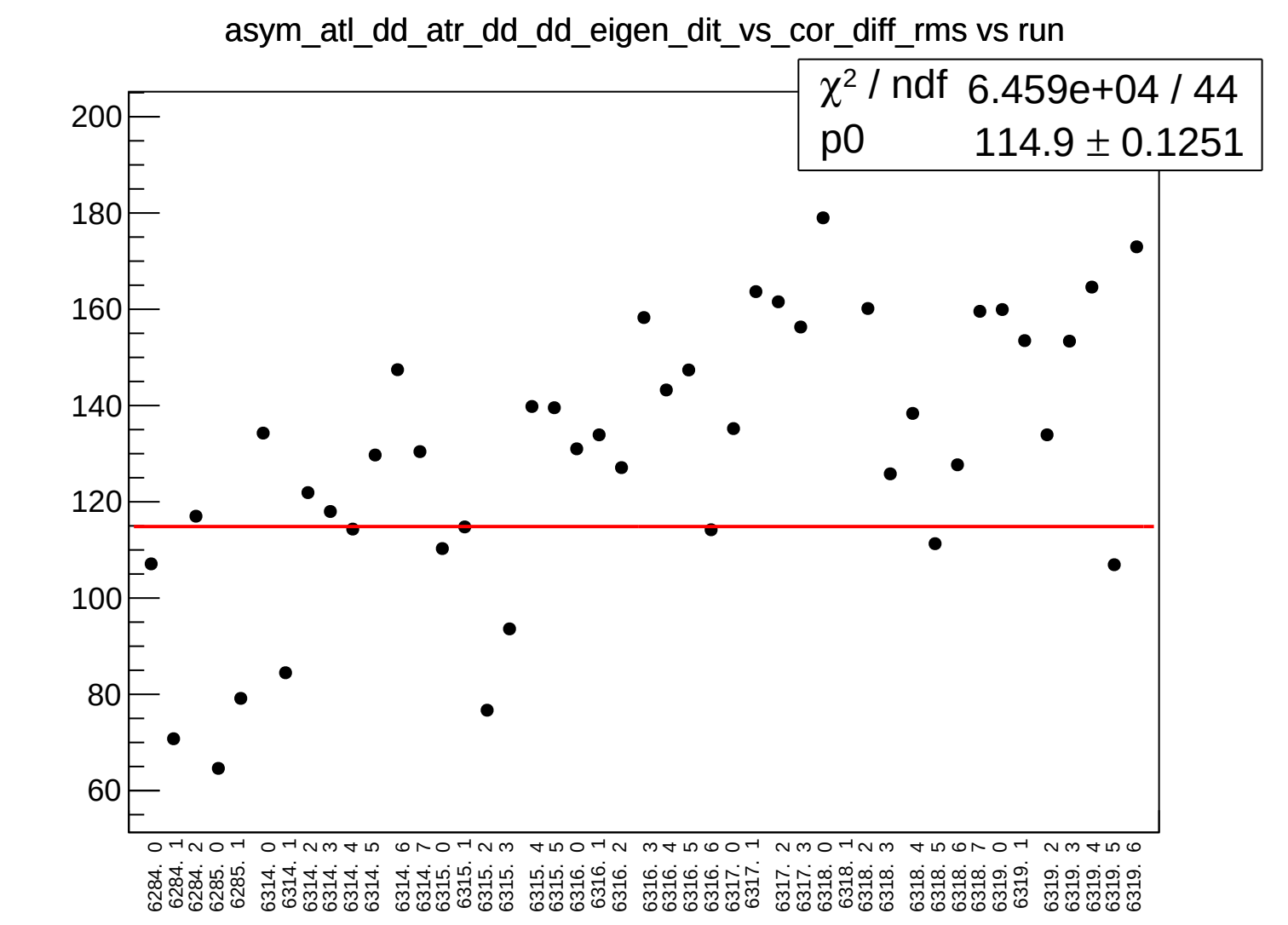

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.76 / 44
p0 2.961e−06 ± 2.849e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −83.99
Std Dev 0
2
1
0
−1
−2

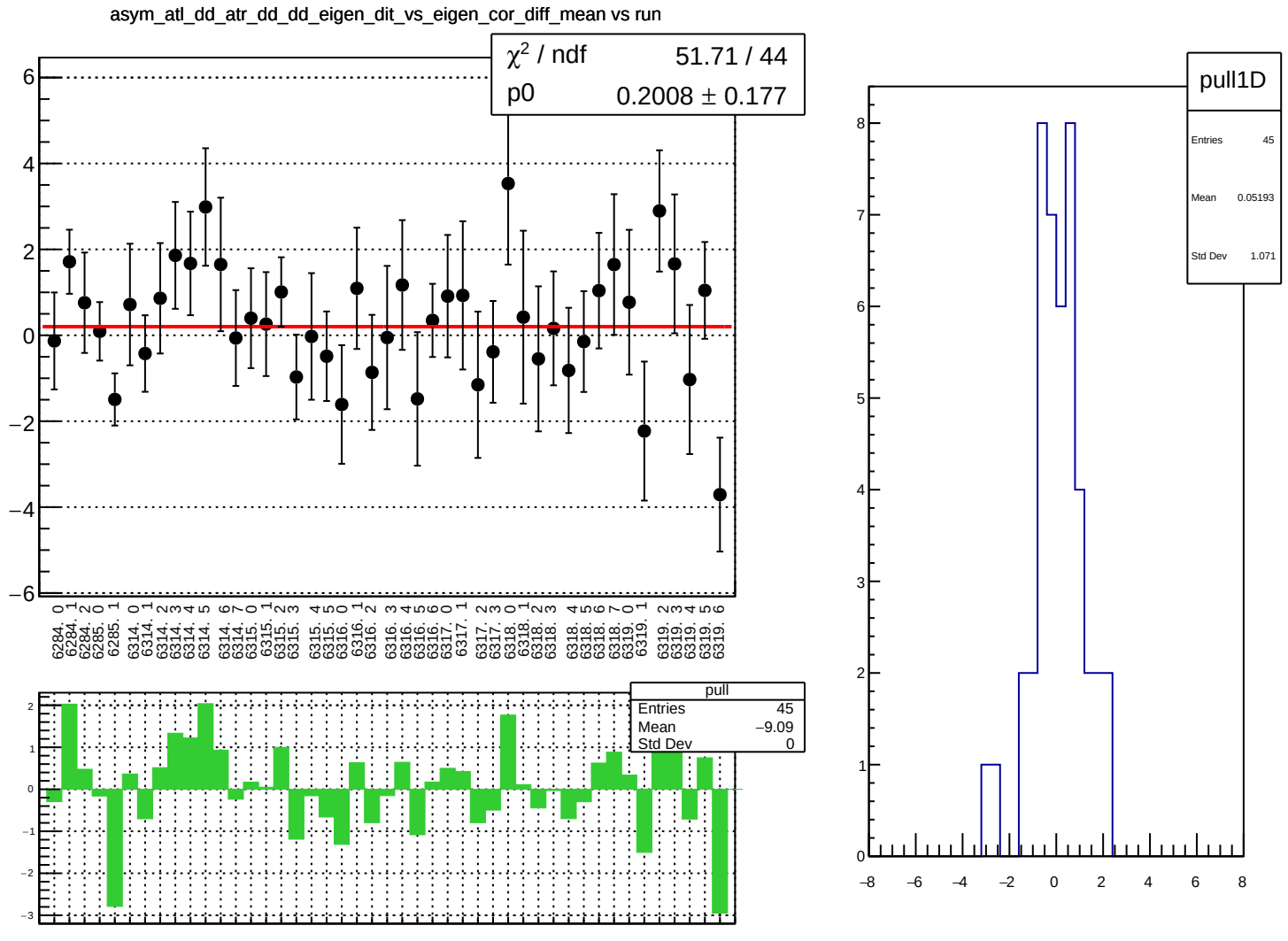

pull1D
Entries 45
Mean −0.01582
Std Dev 0.9972
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

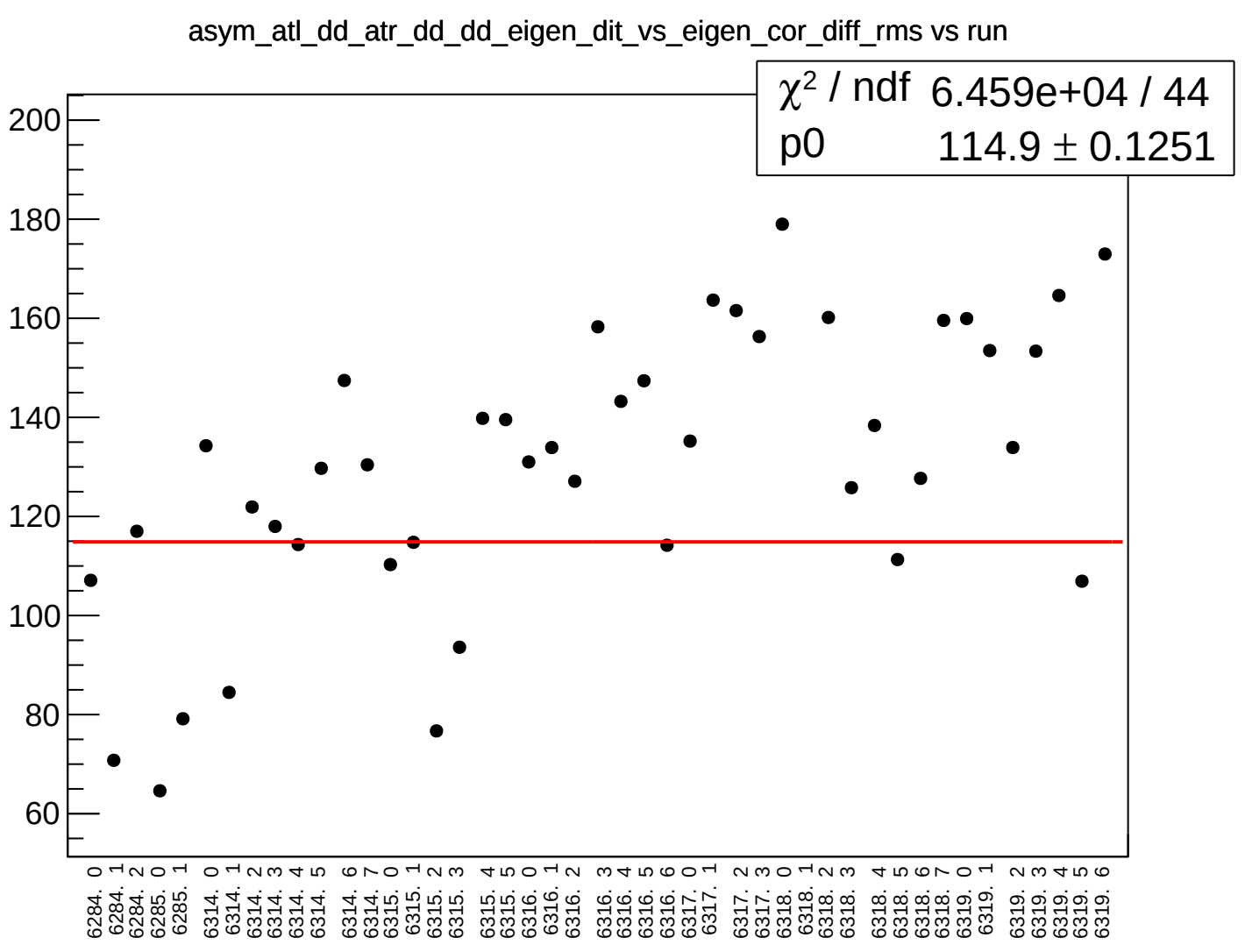

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5958 / 44
p0 0.001913 ± 2.015e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

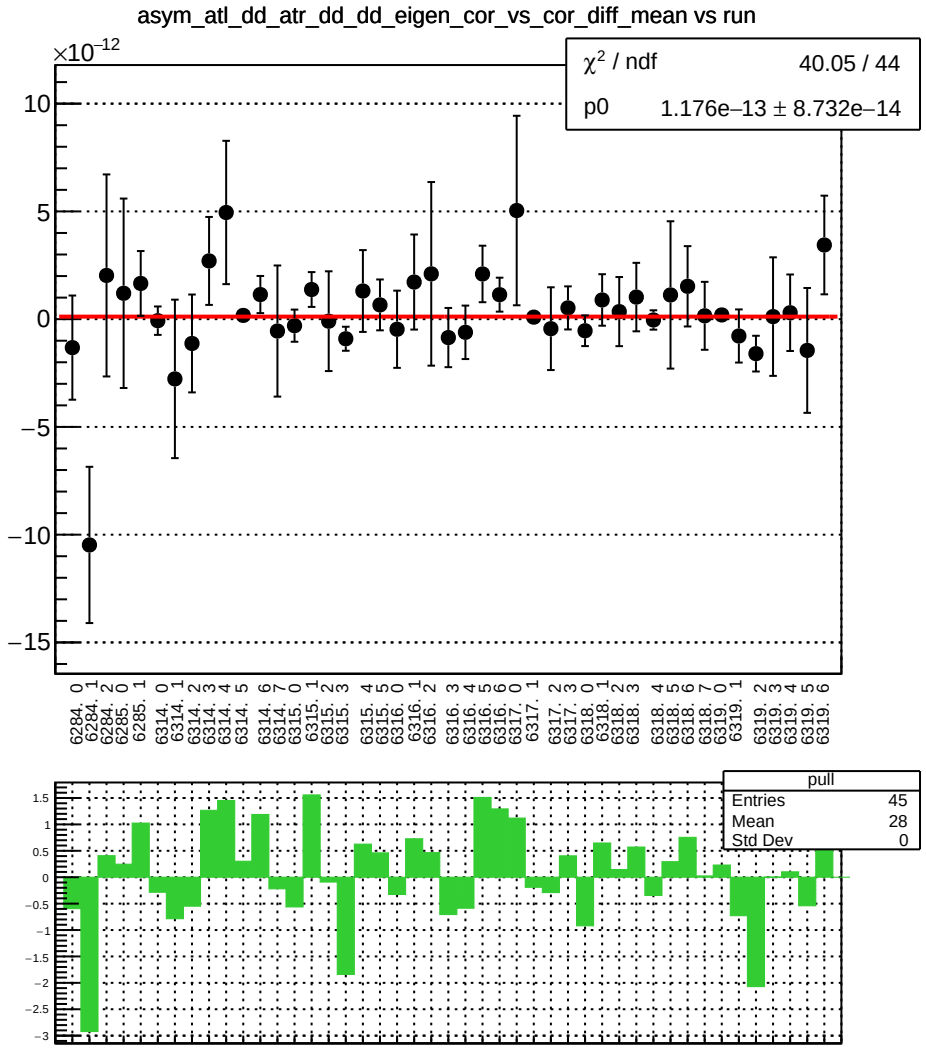

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
pull
Entries 45
Mean −9.09
Std Dev 0

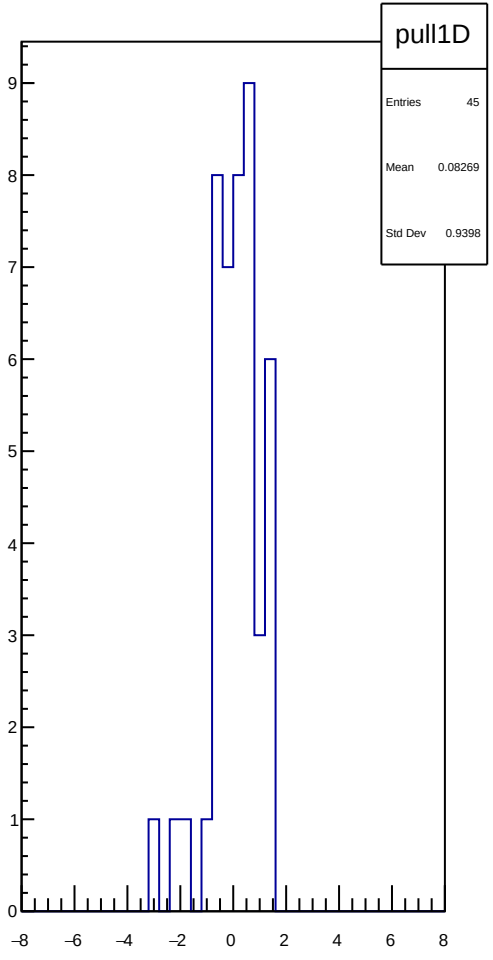

pull1D
Entries 45
Mean 0.05193
Std Dev 1.071

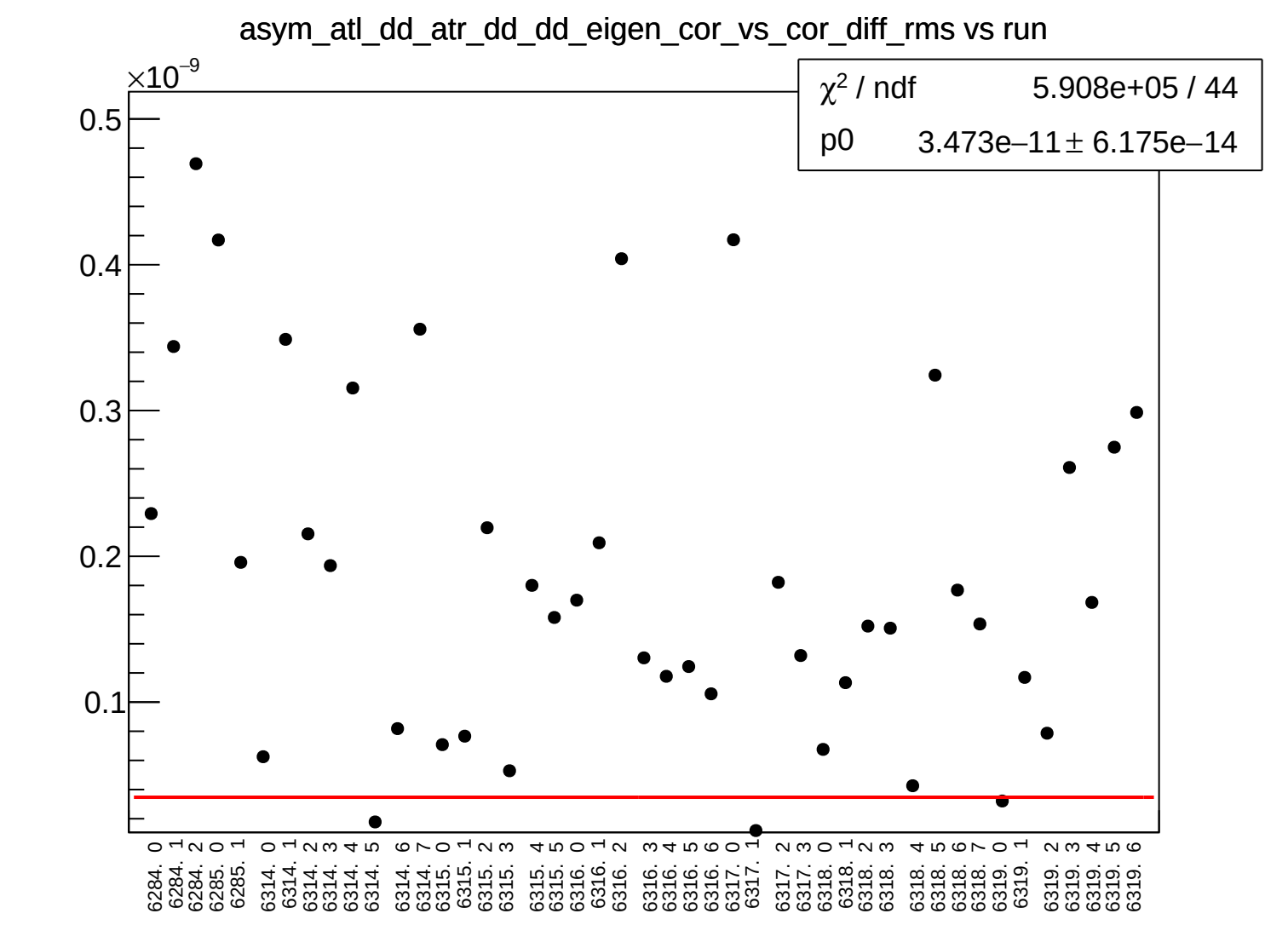

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

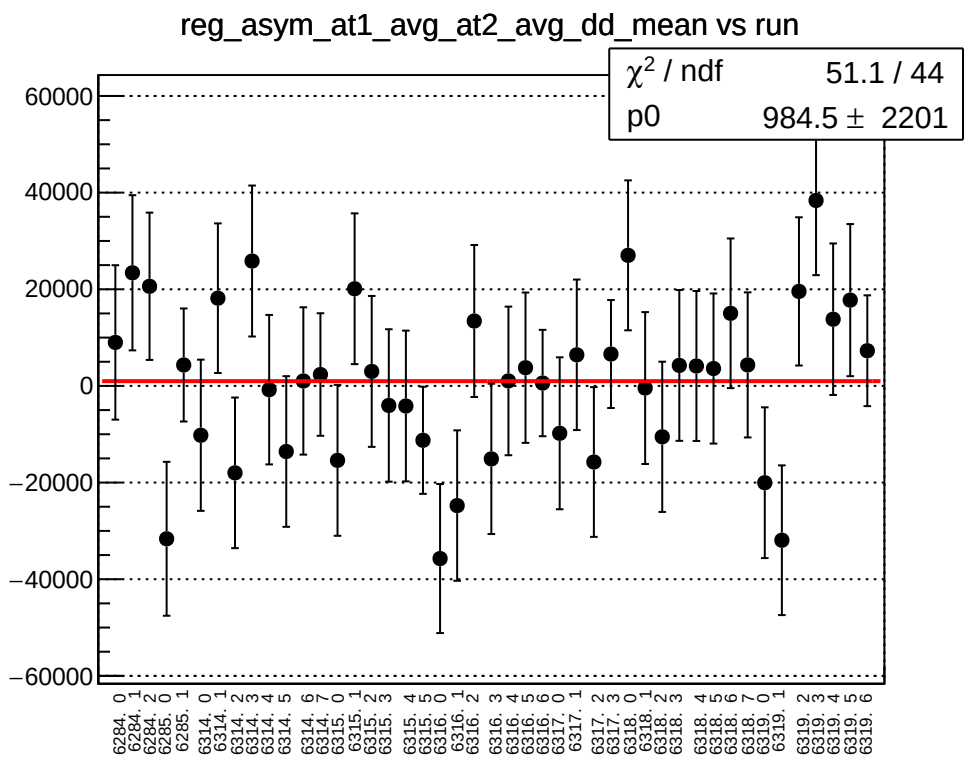

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −9.09
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.05193
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

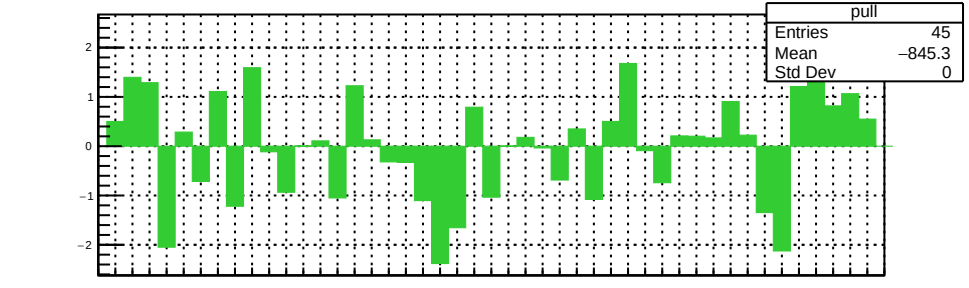

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

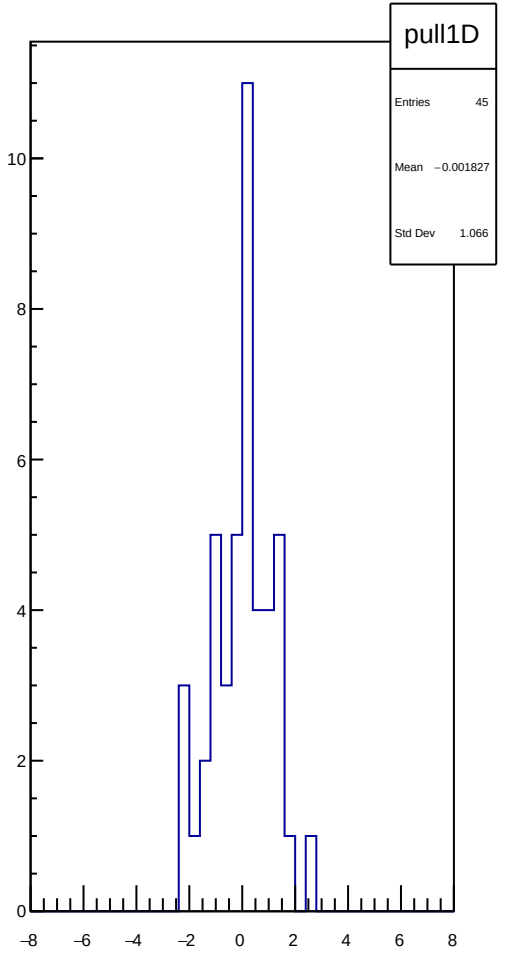

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.05 / 44
p0 1.176e−13 ± 8.732e−14
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

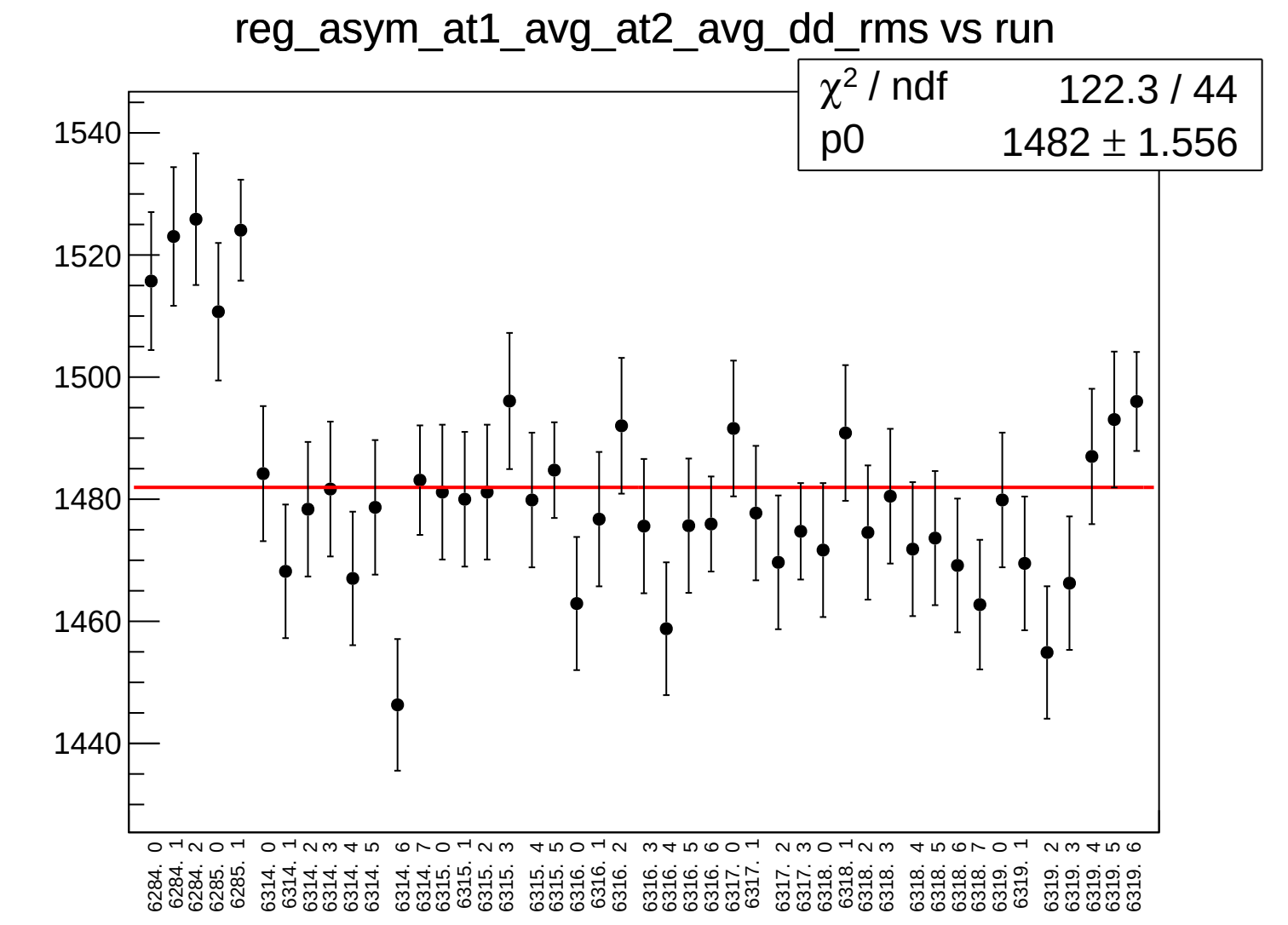

pull1D
Entries 45
Mean 0.08269
Std Dev 0.9398
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

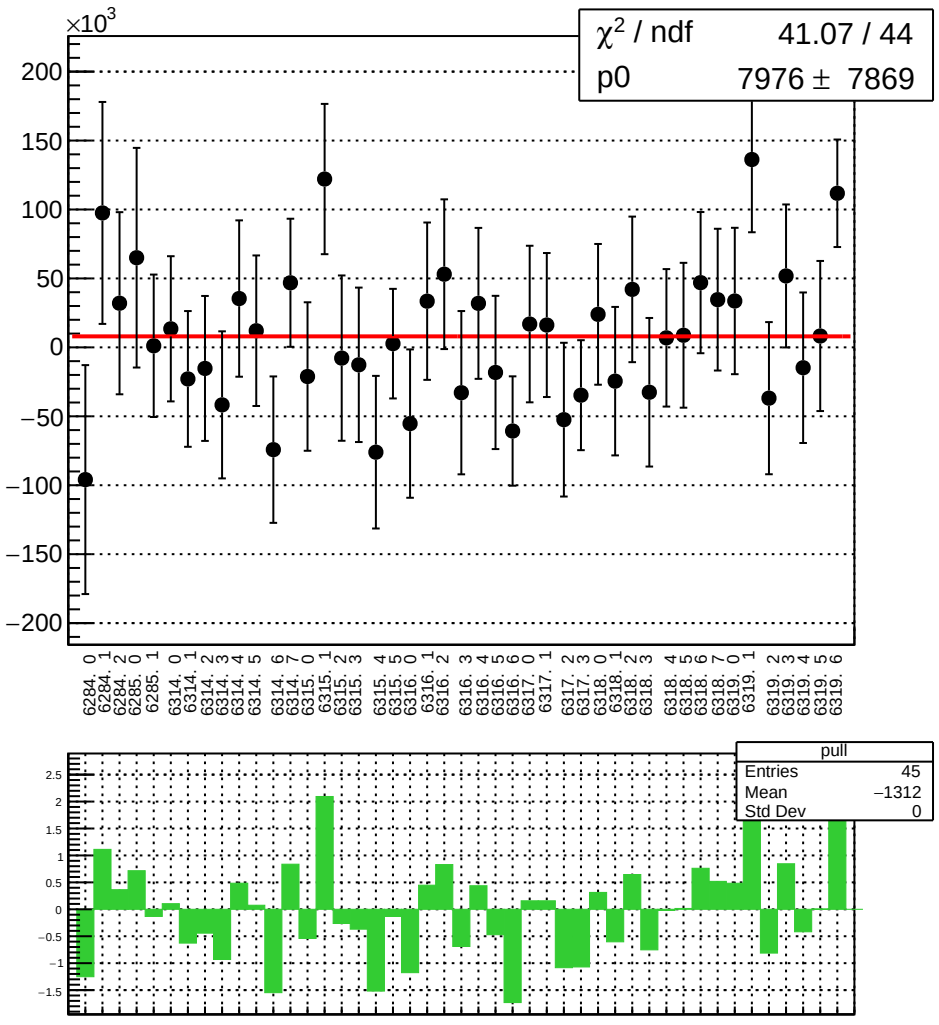

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.908e+05 / 44
p0 3.473e−11 ± 6.175e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

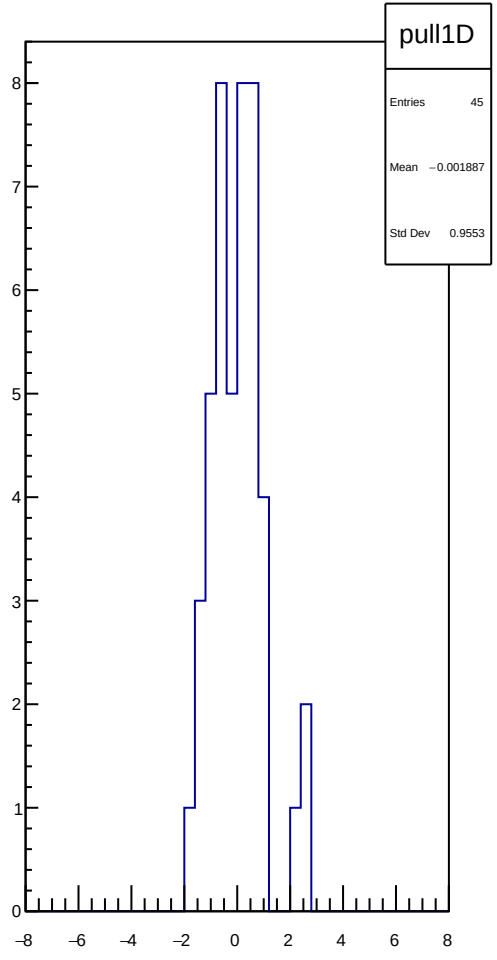

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.5 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

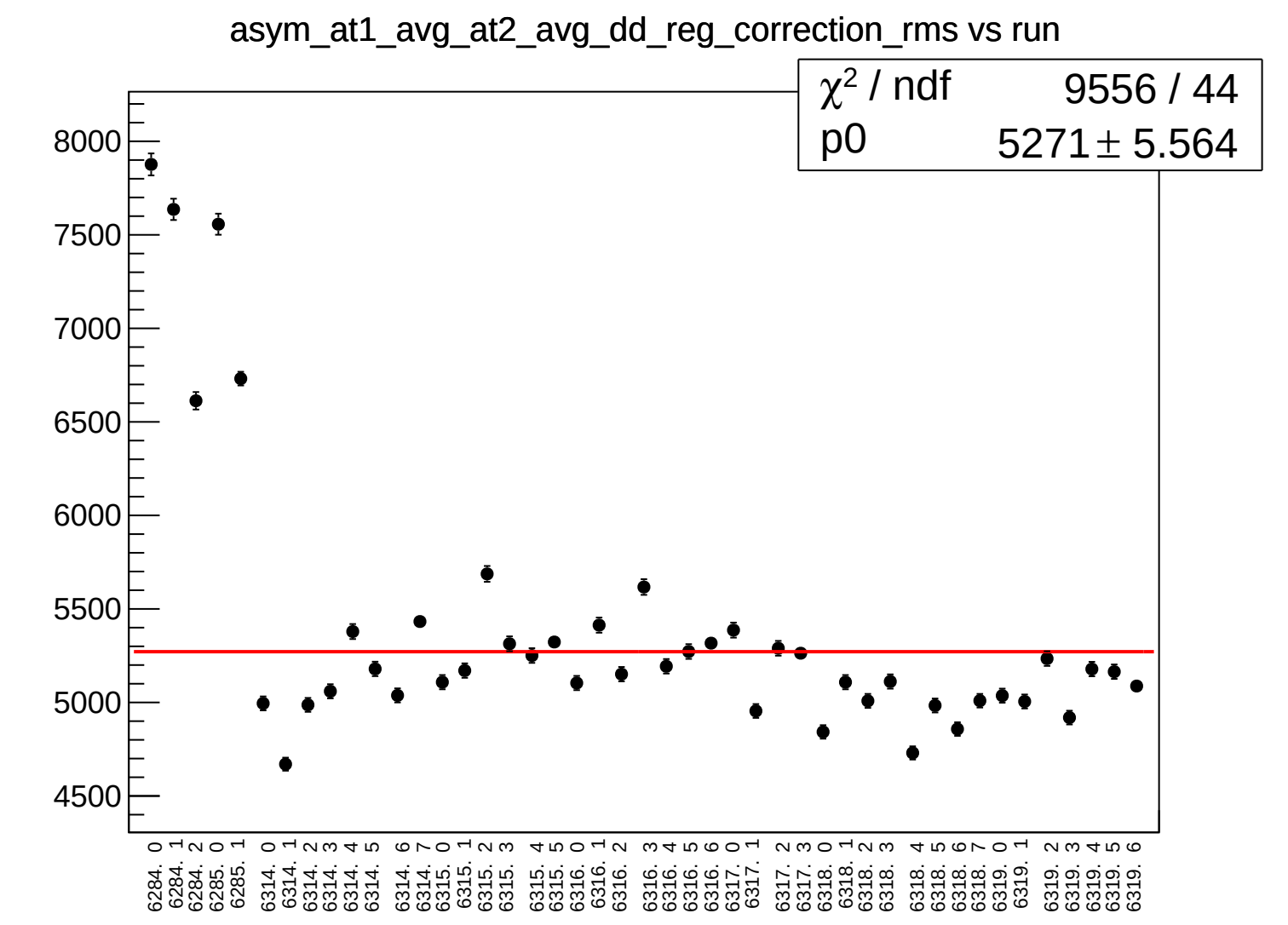

pull
Entries 45
Mean −845.3
Std Dev 0
2
1
0
−1
−2

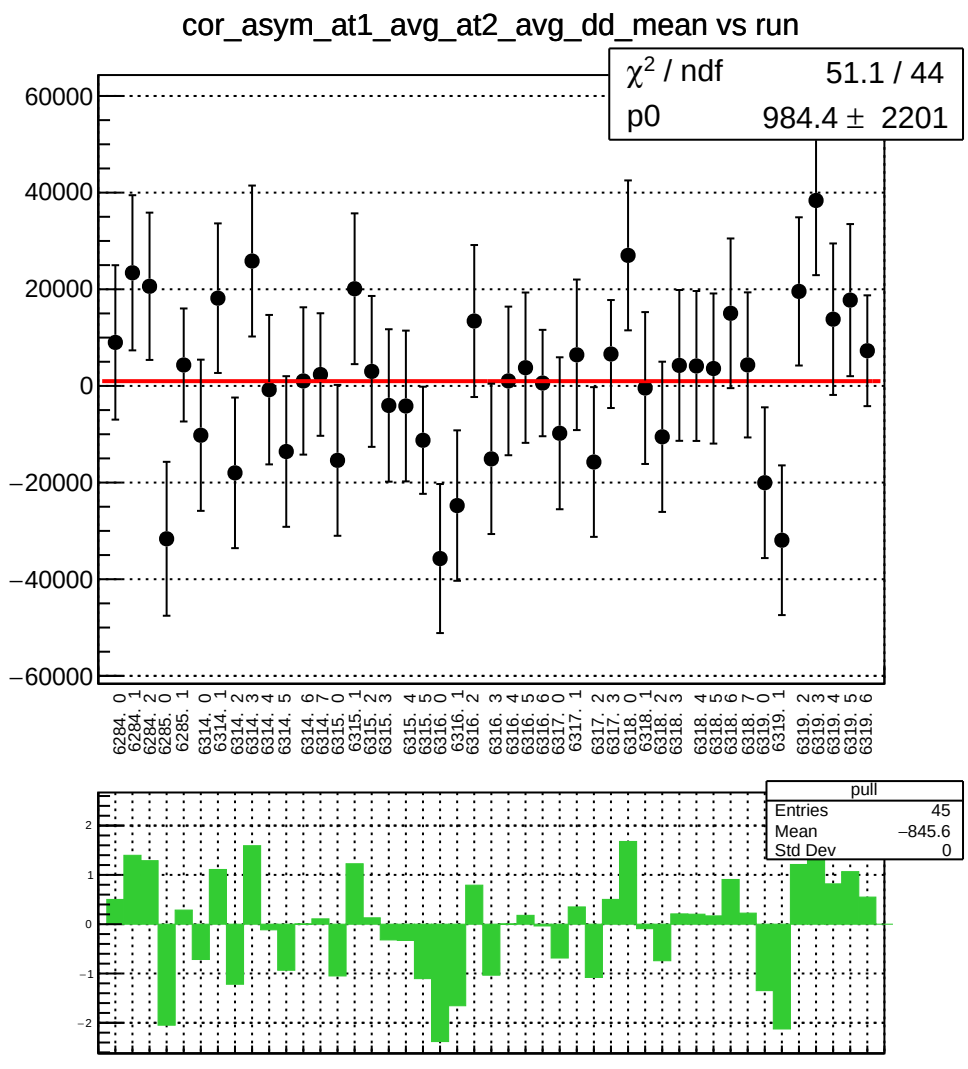

pull1D
Entries 45
Mean −0.001827
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

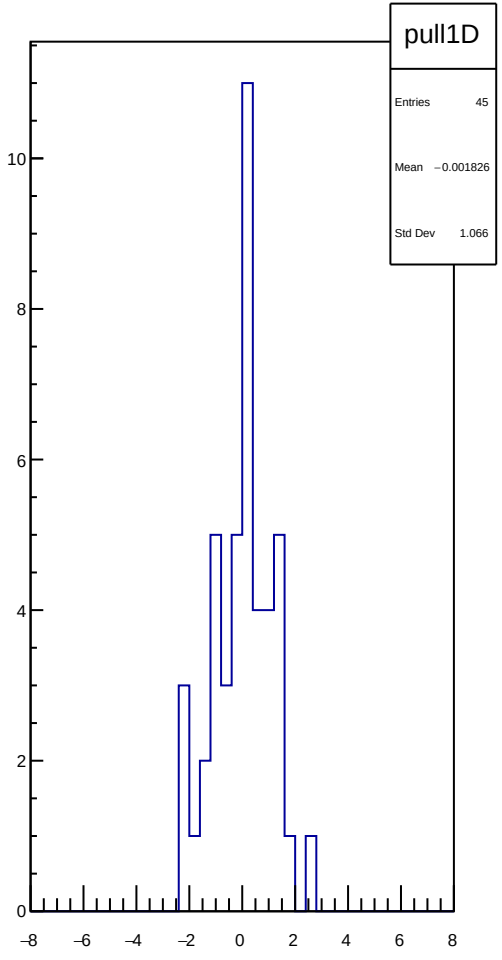

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

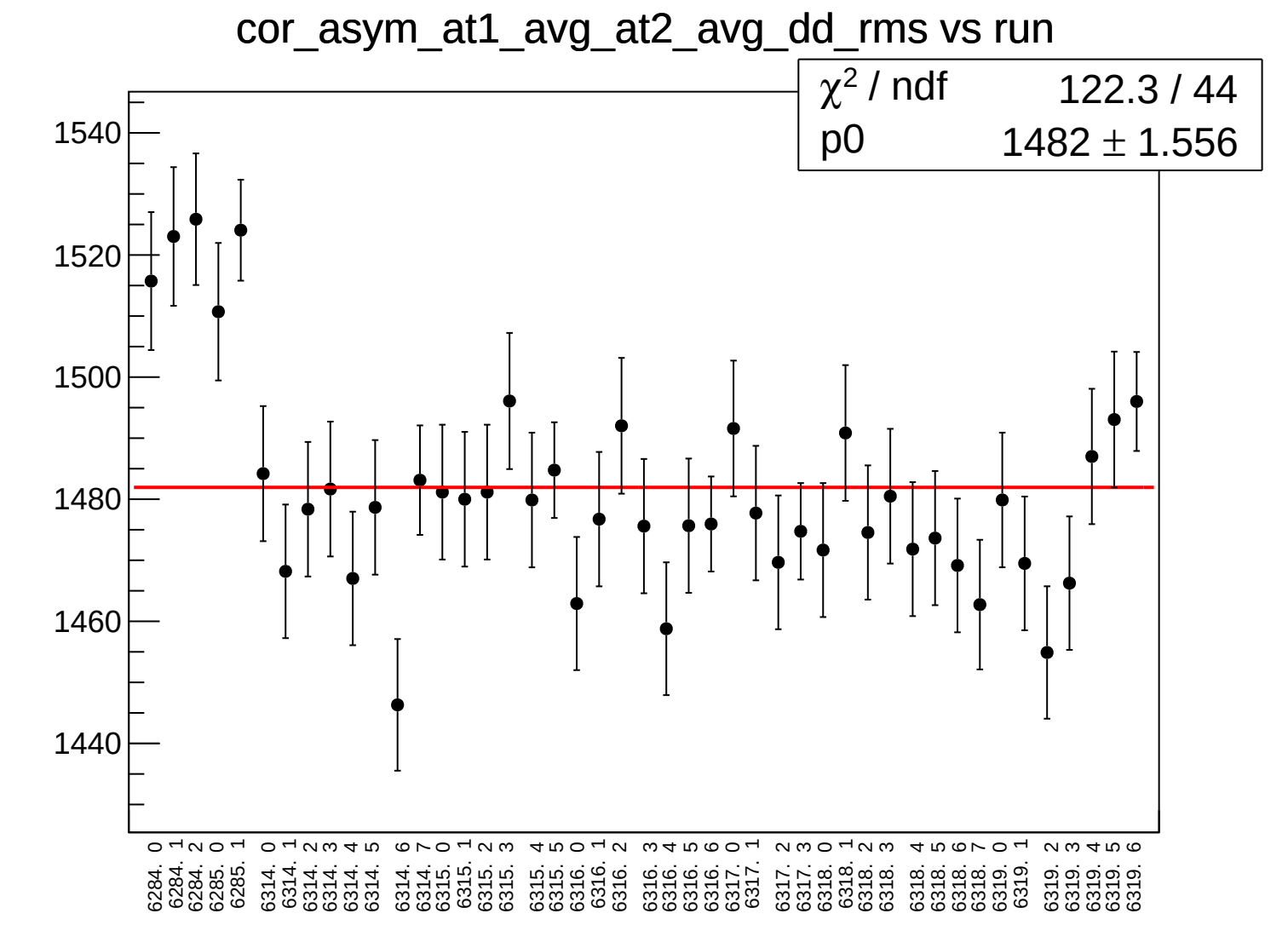

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1312
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001887
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

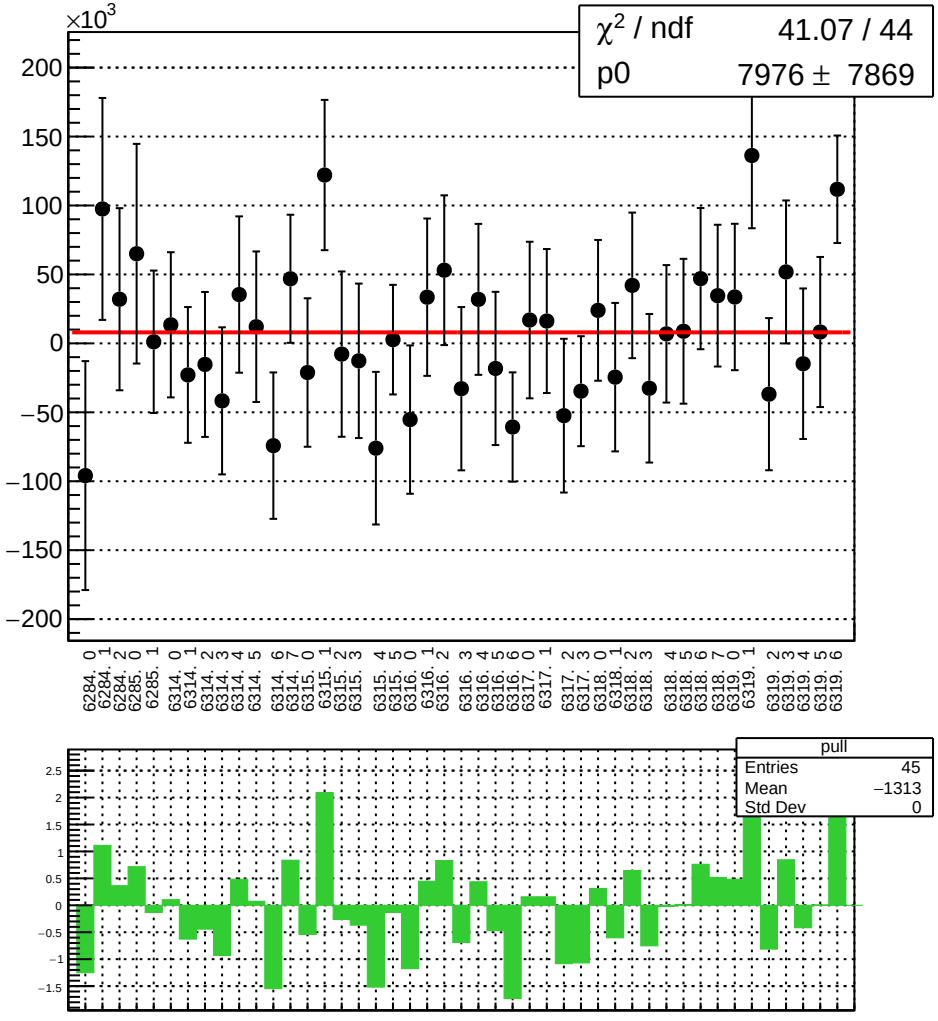

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 9556 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

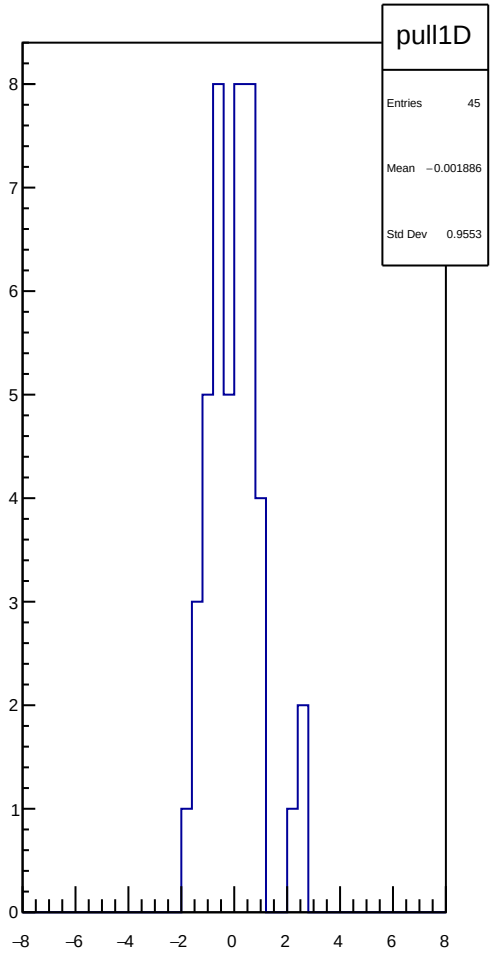

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.6
Std Dev 0
2
1
0
−1
−2

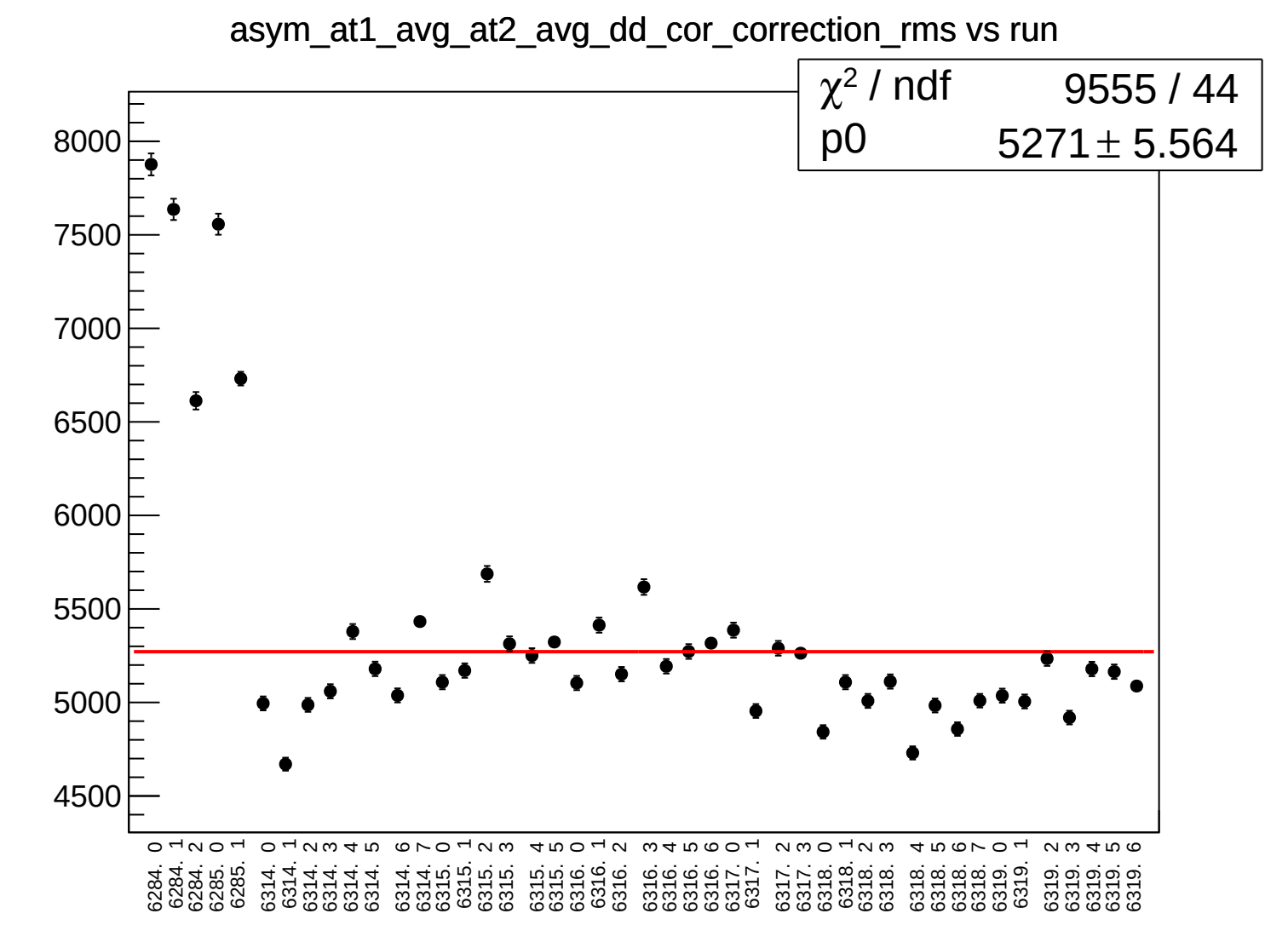

pull1D
Entries 45
Mean −0.001826
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

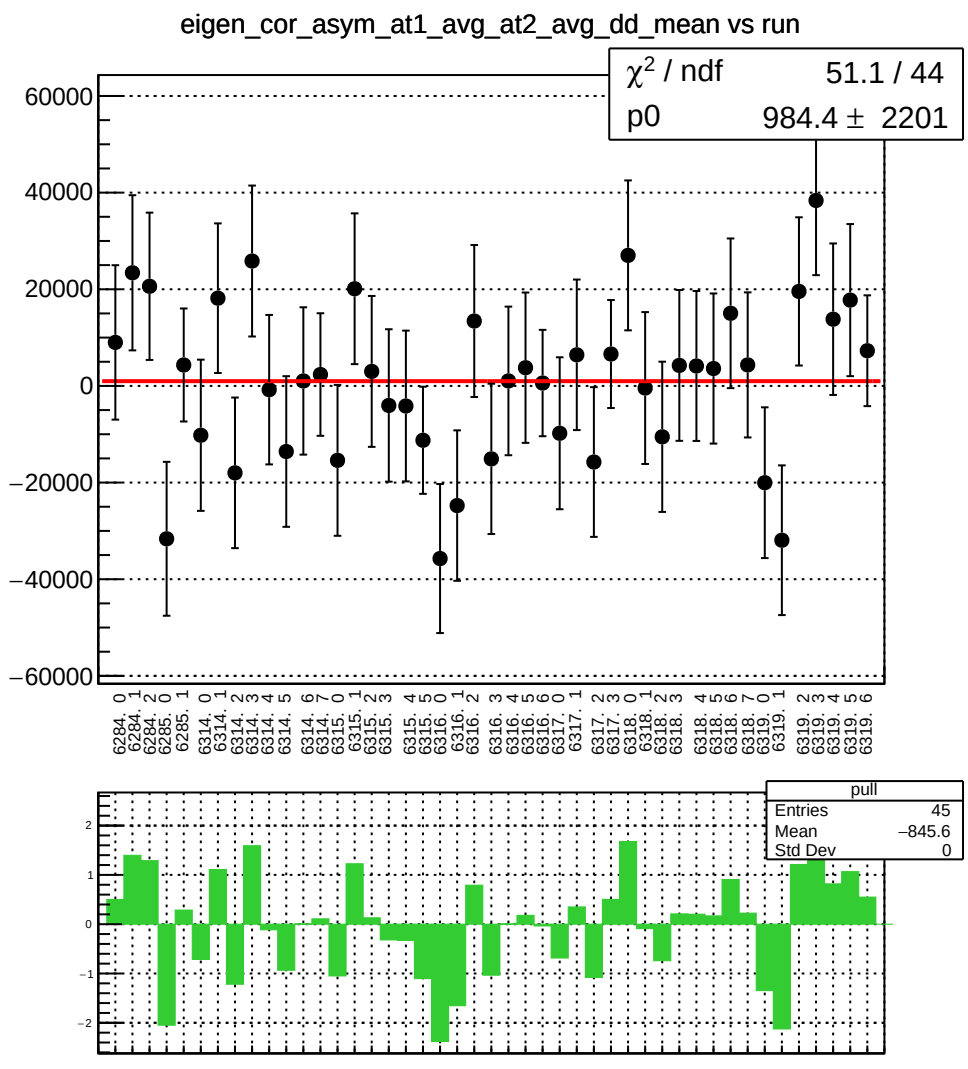

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

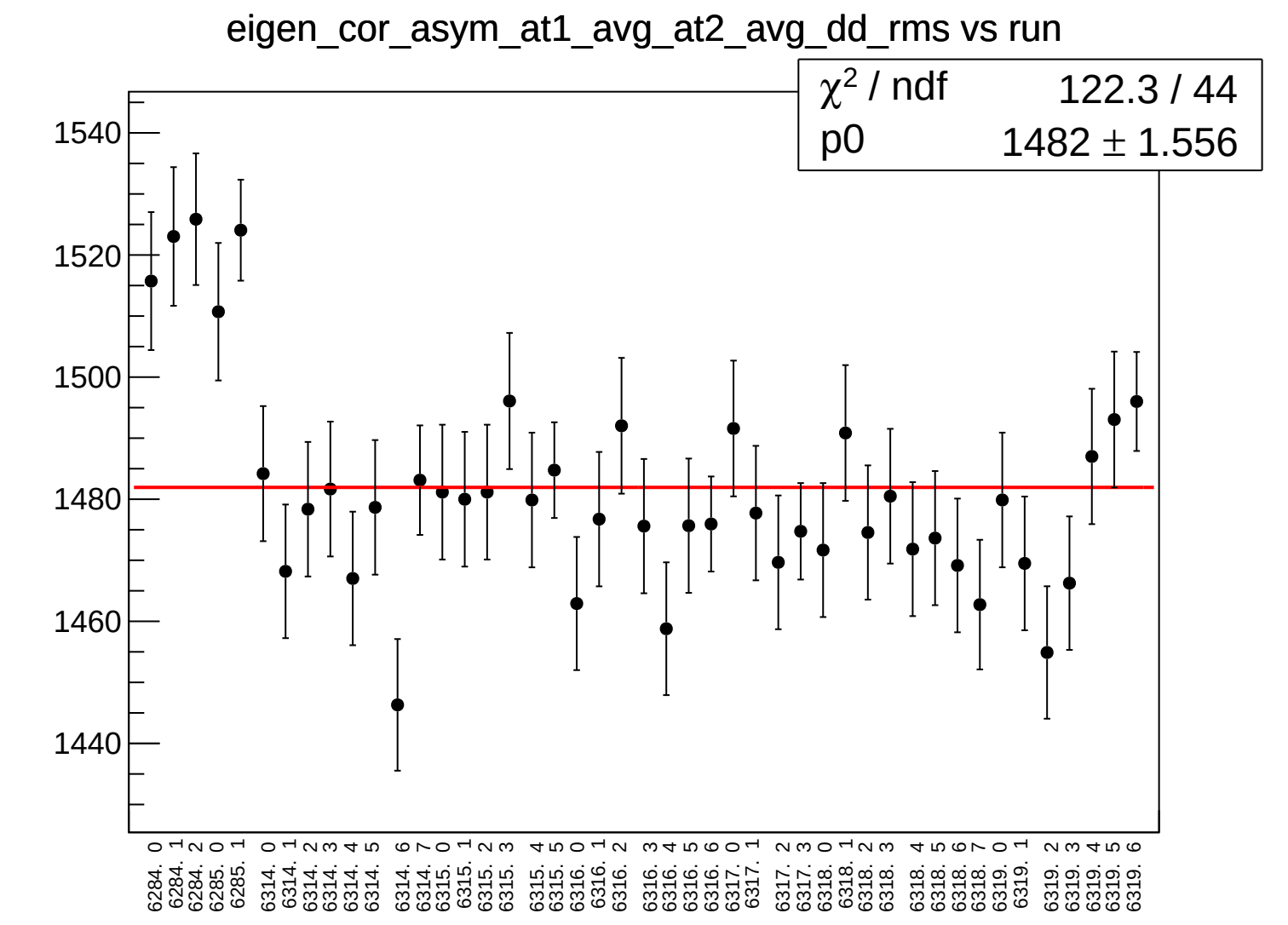
asym_at1_avg_at2_avg_dd_cor_correction_mean vs run



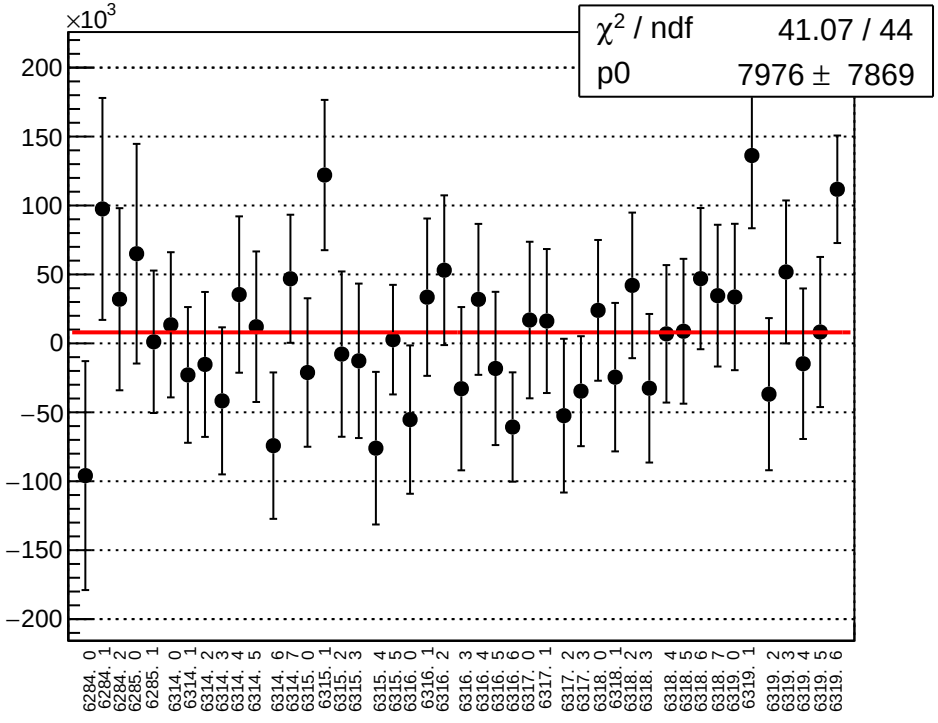


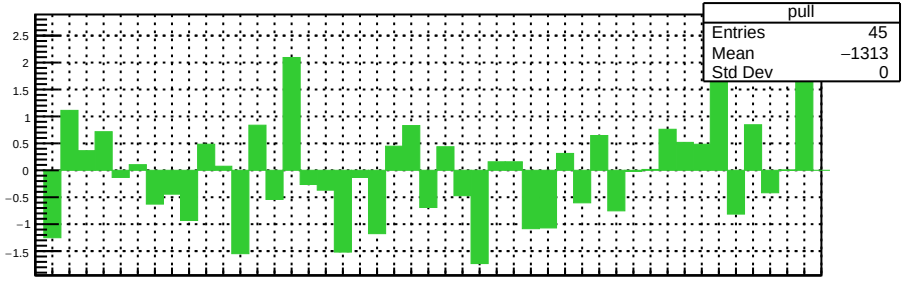

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

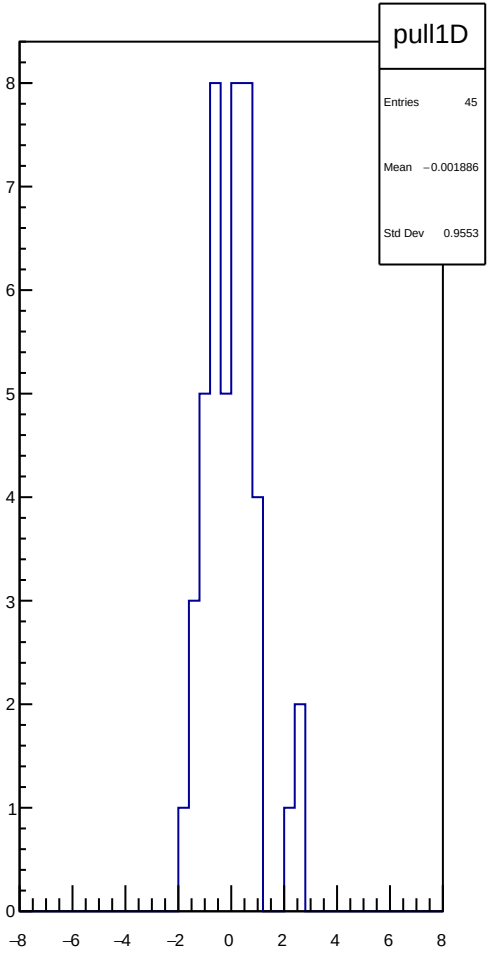

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.001826
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

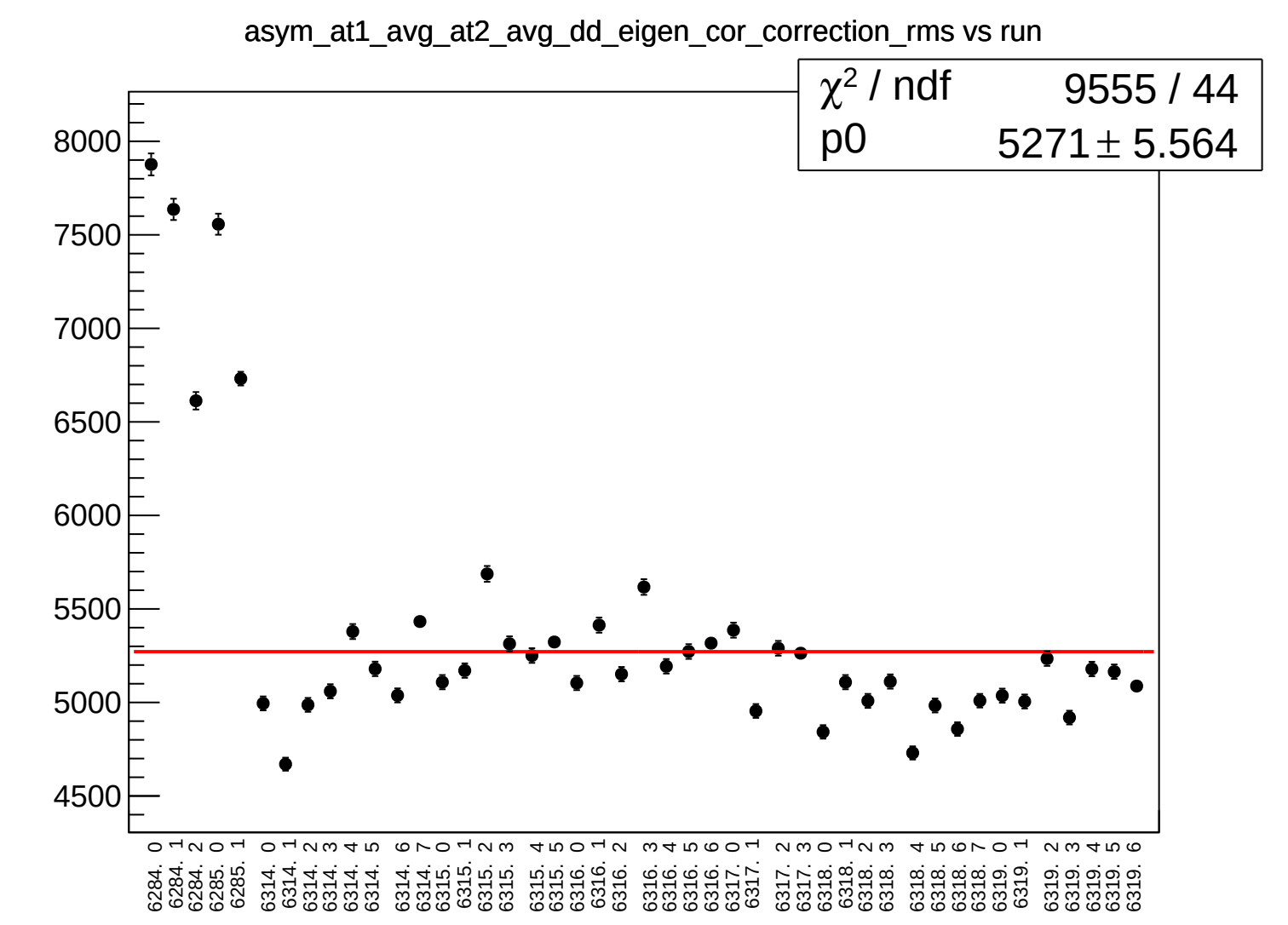

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

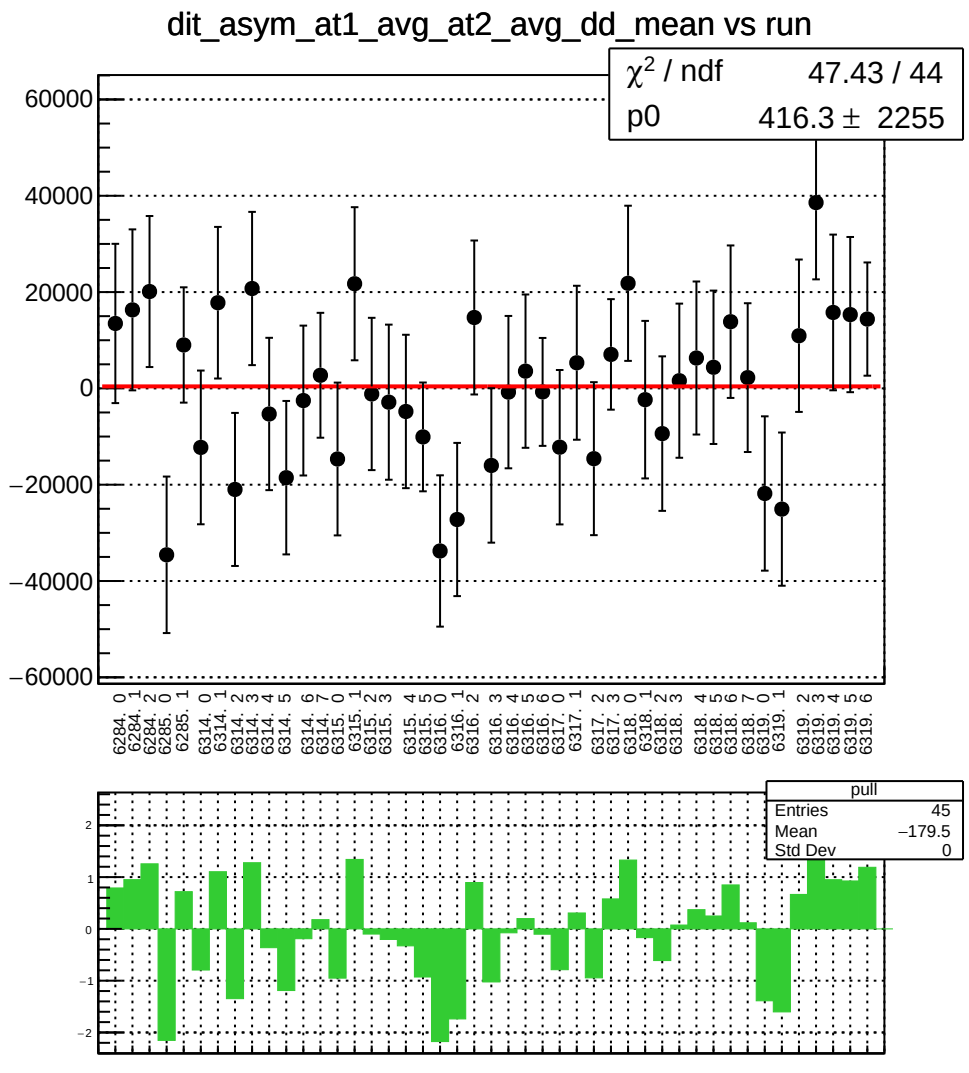
asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run

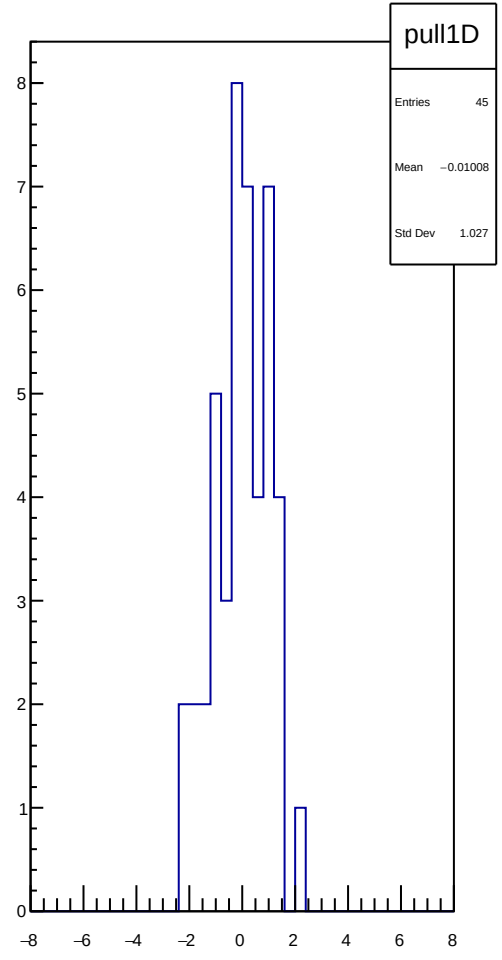


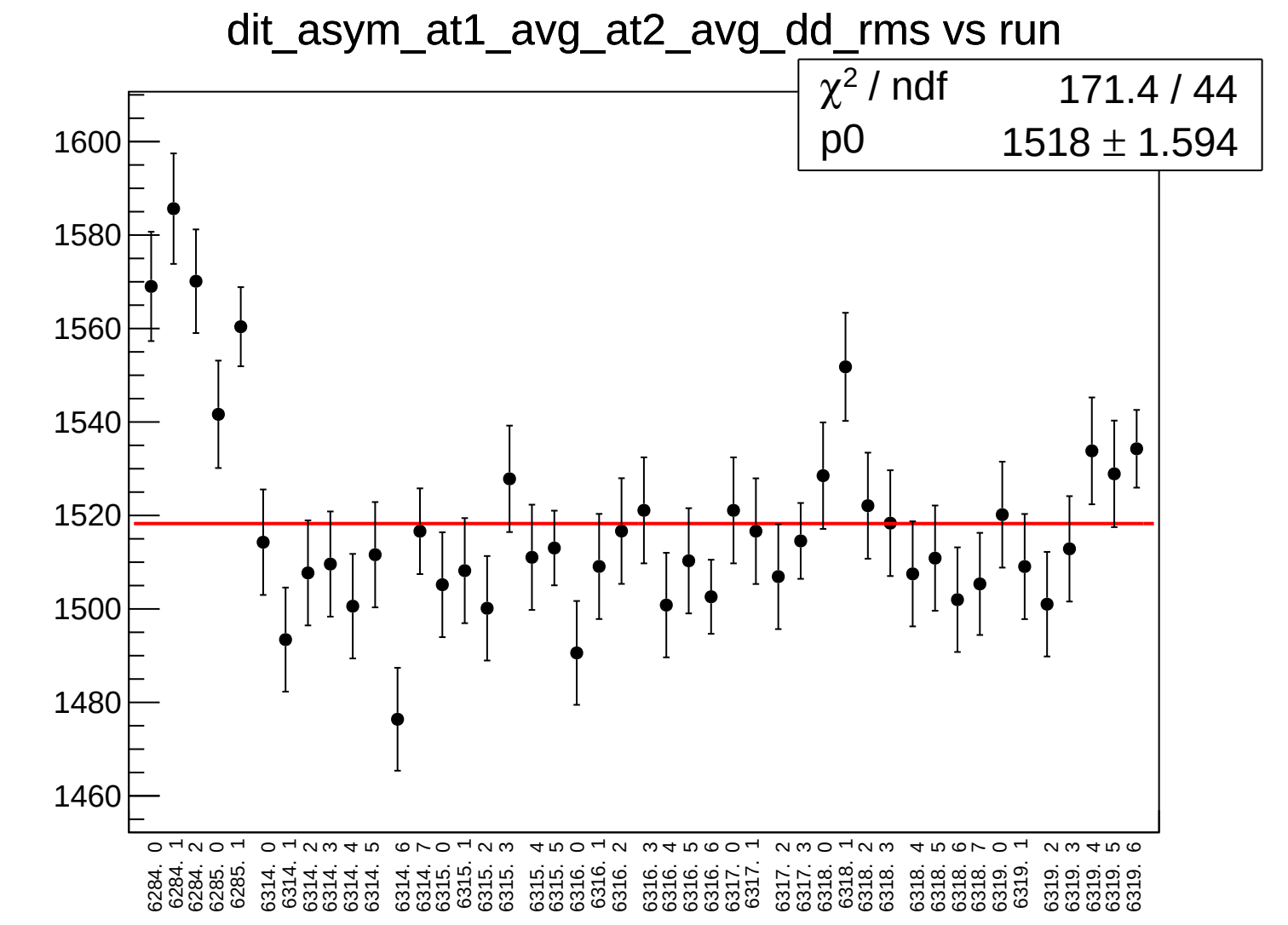





asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 47.43 / 44
p0 416.3 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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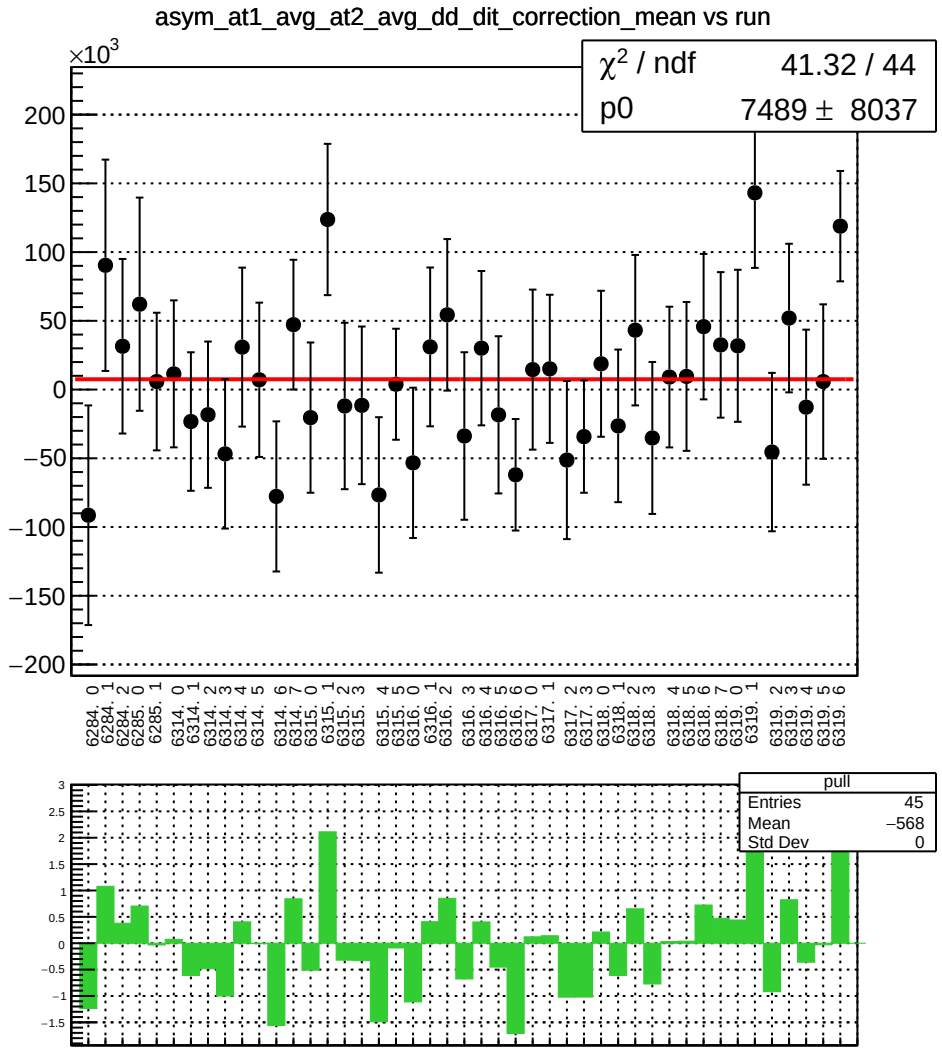
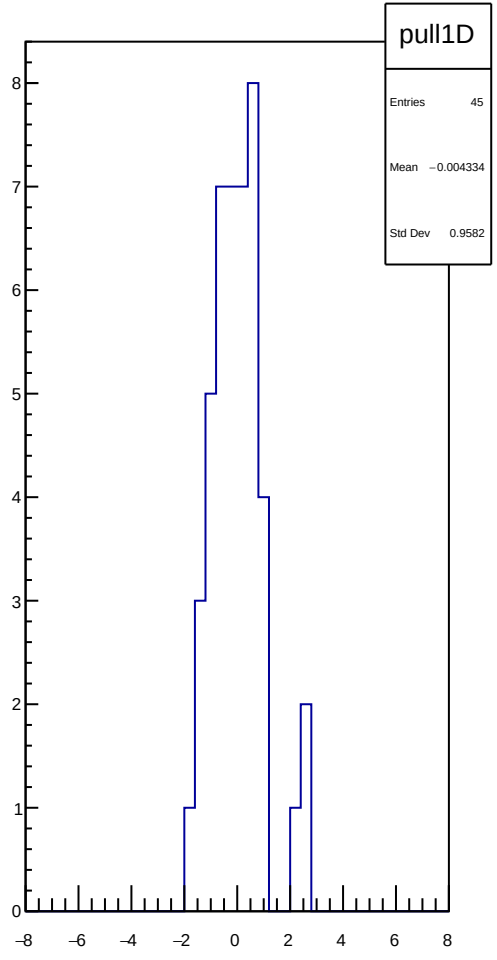
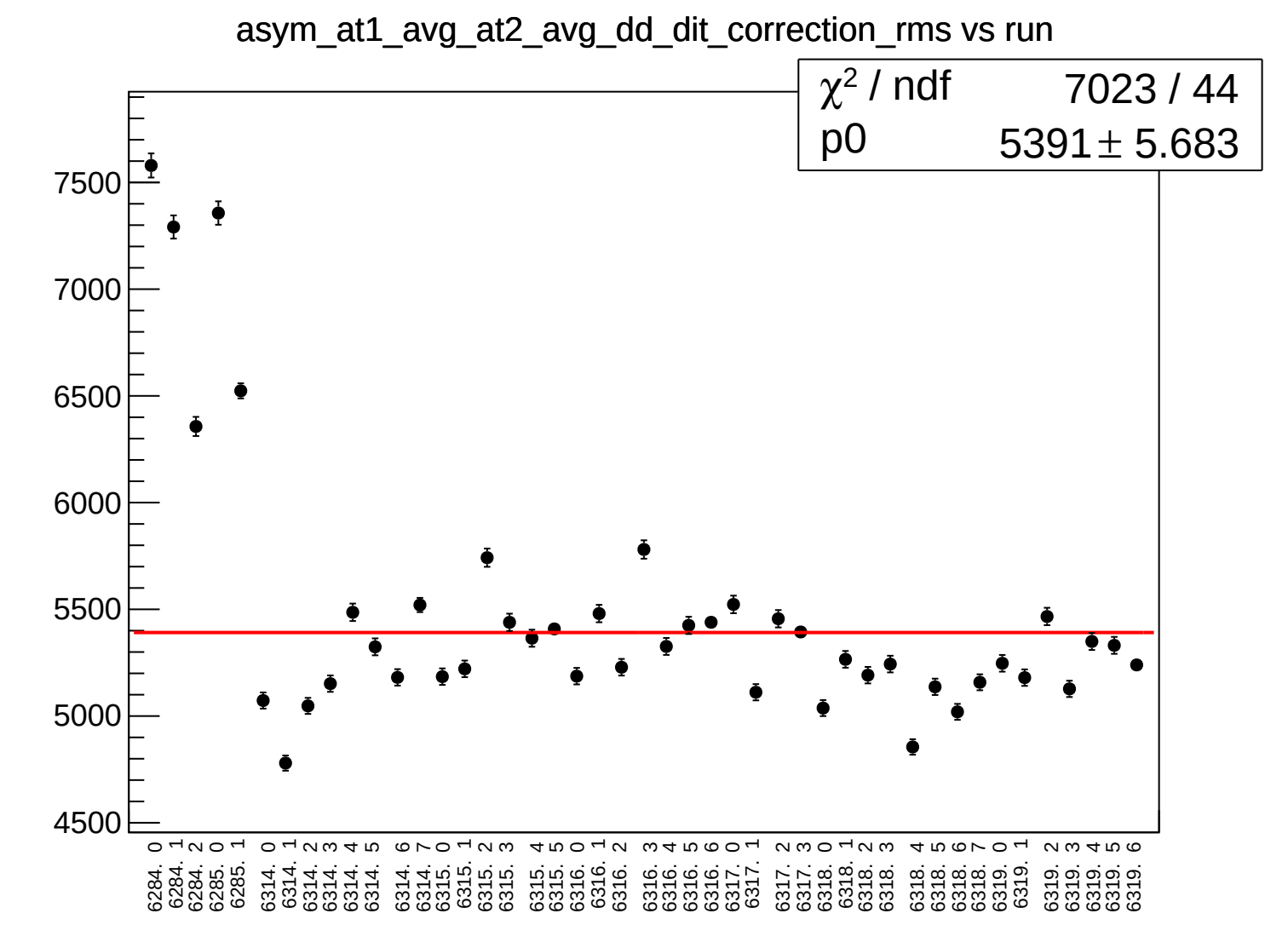
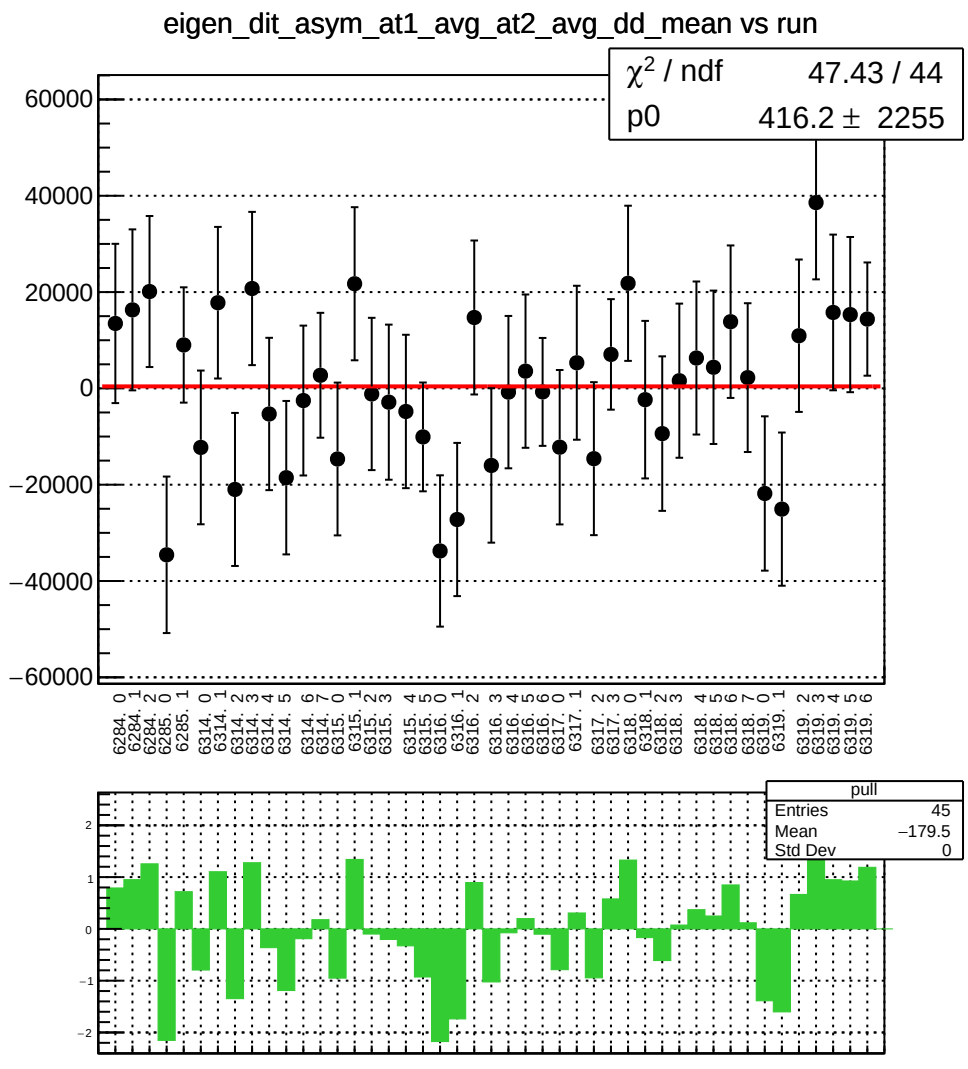
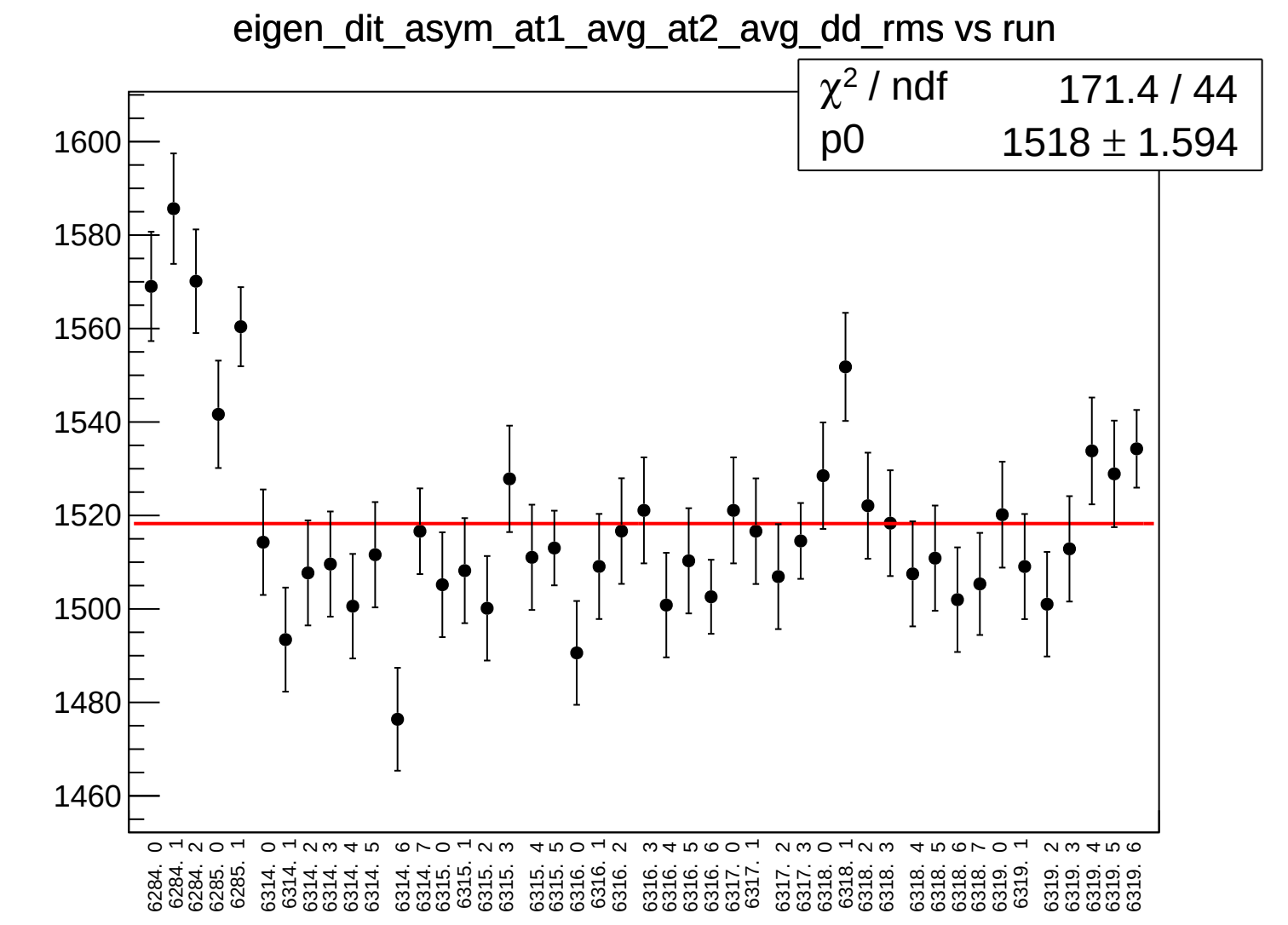
6319. 6


asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 47.43 / 44
p0 416.2 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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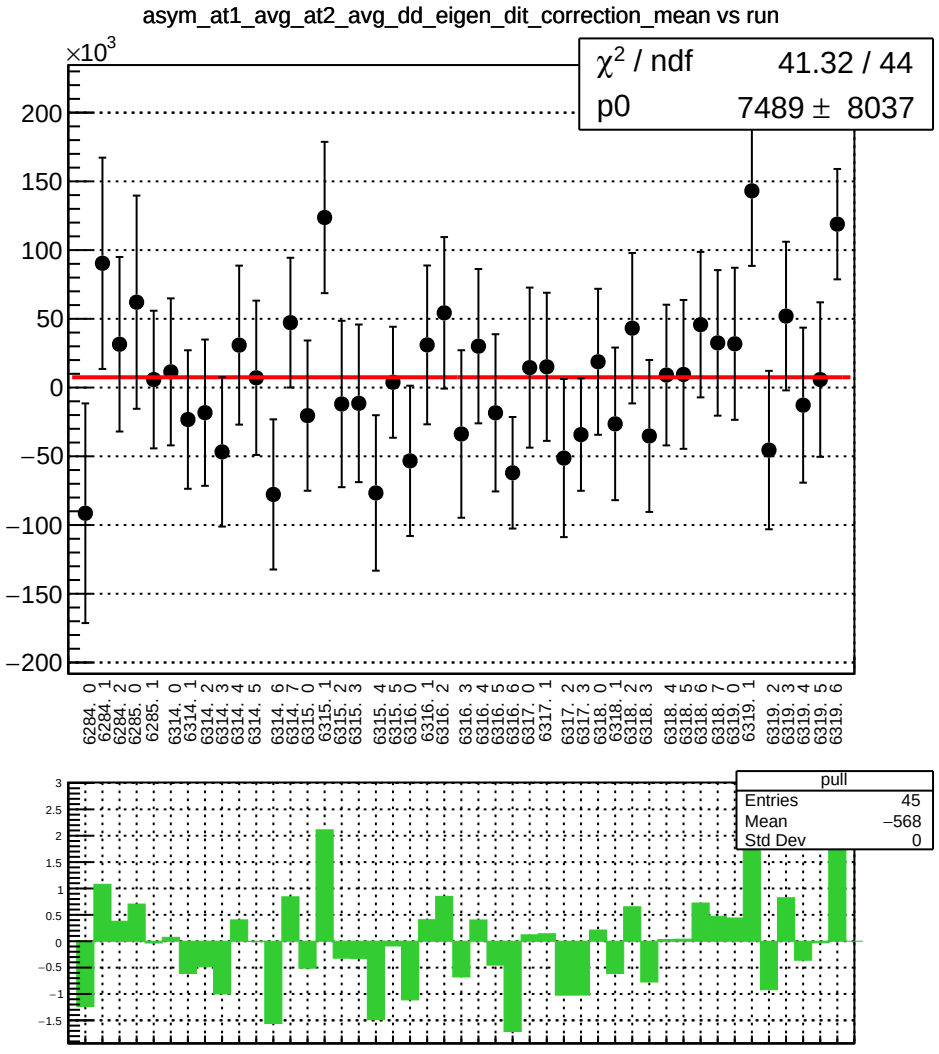
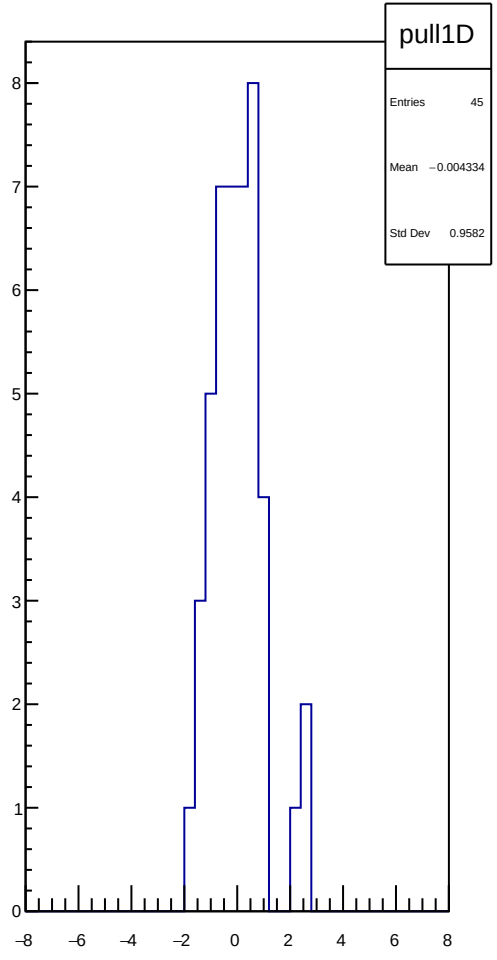
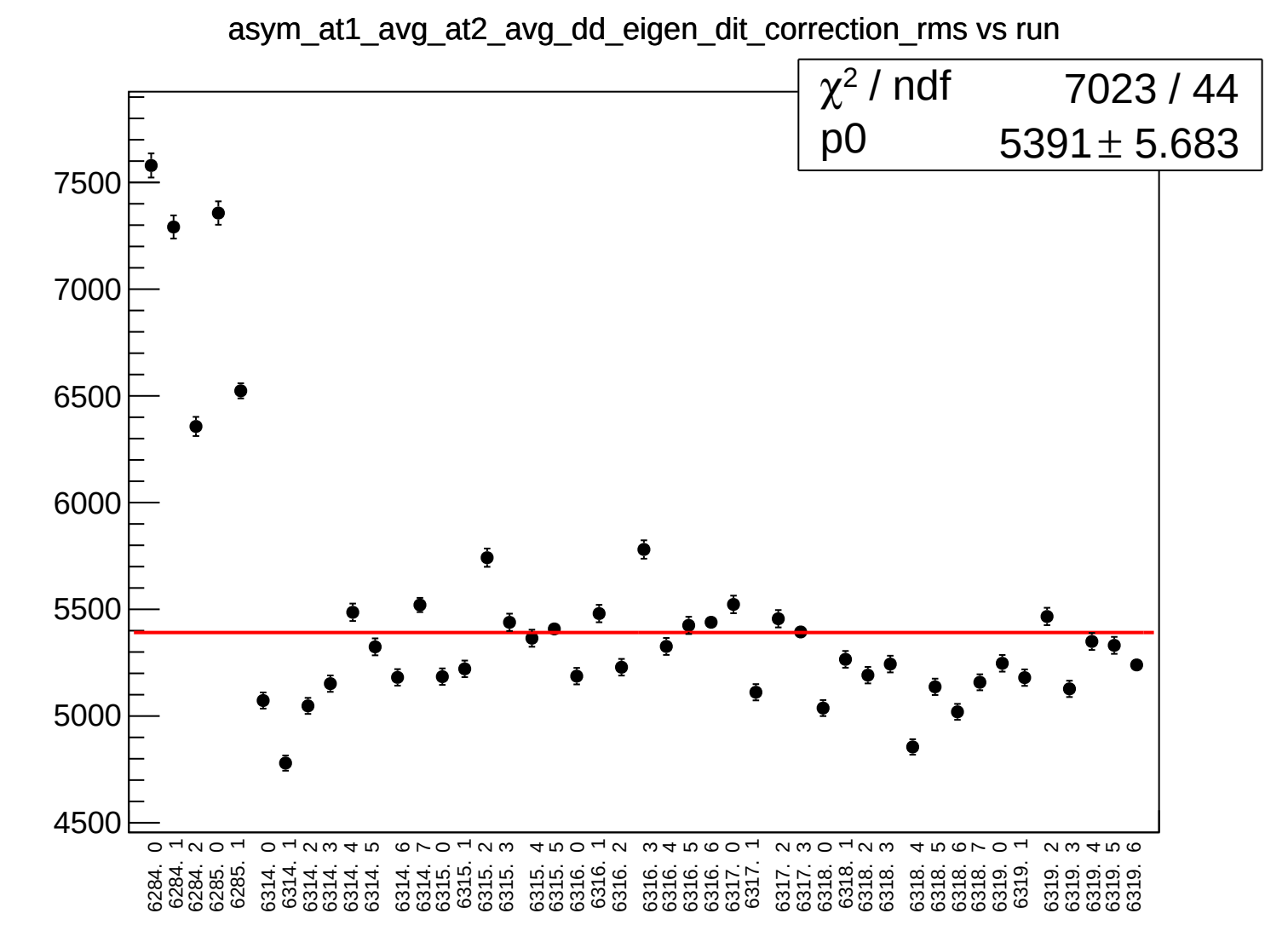
6319. 5
6319. 6


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 5
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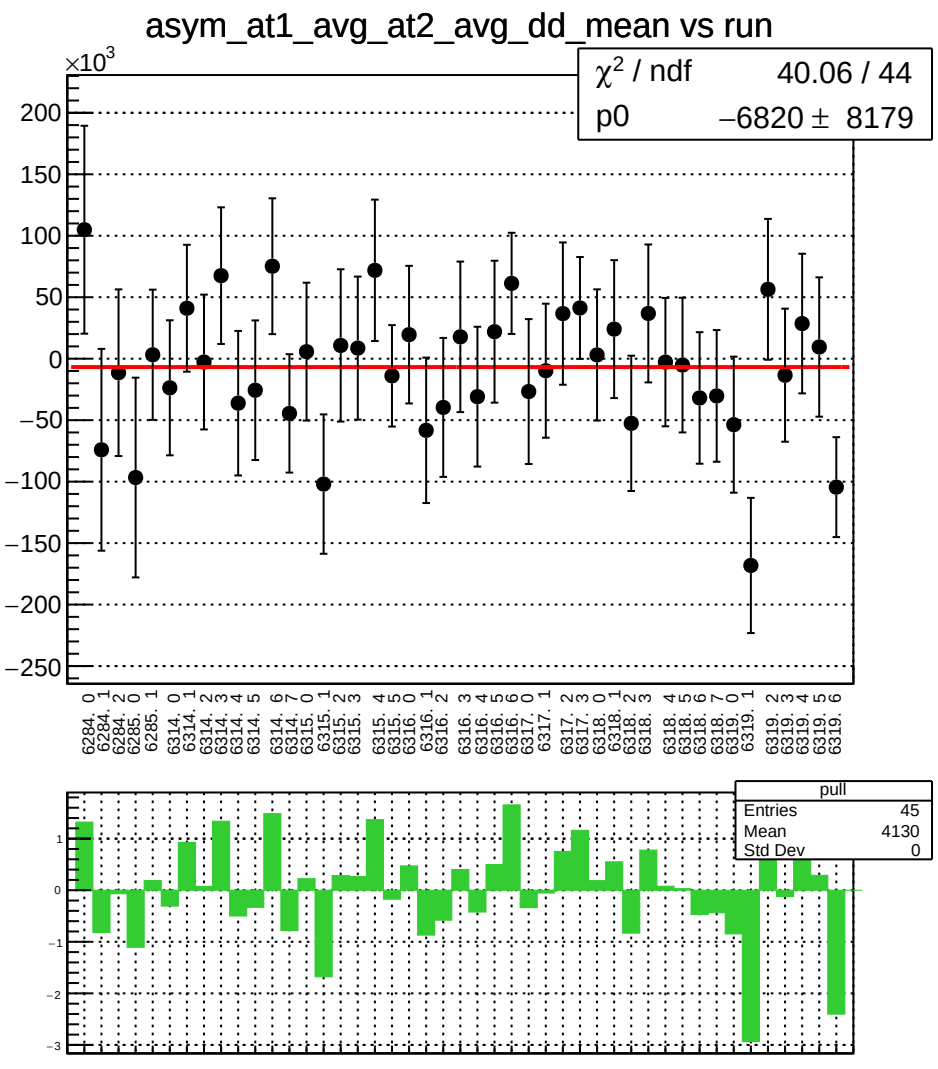
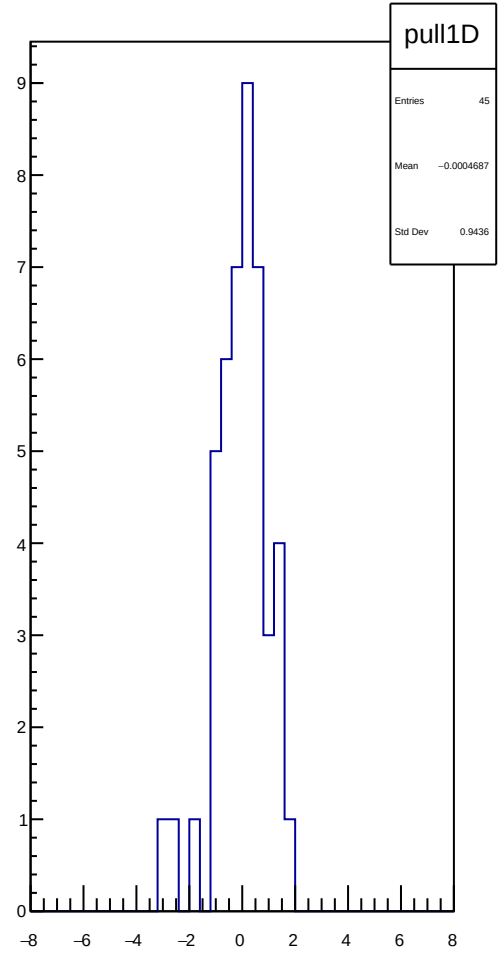
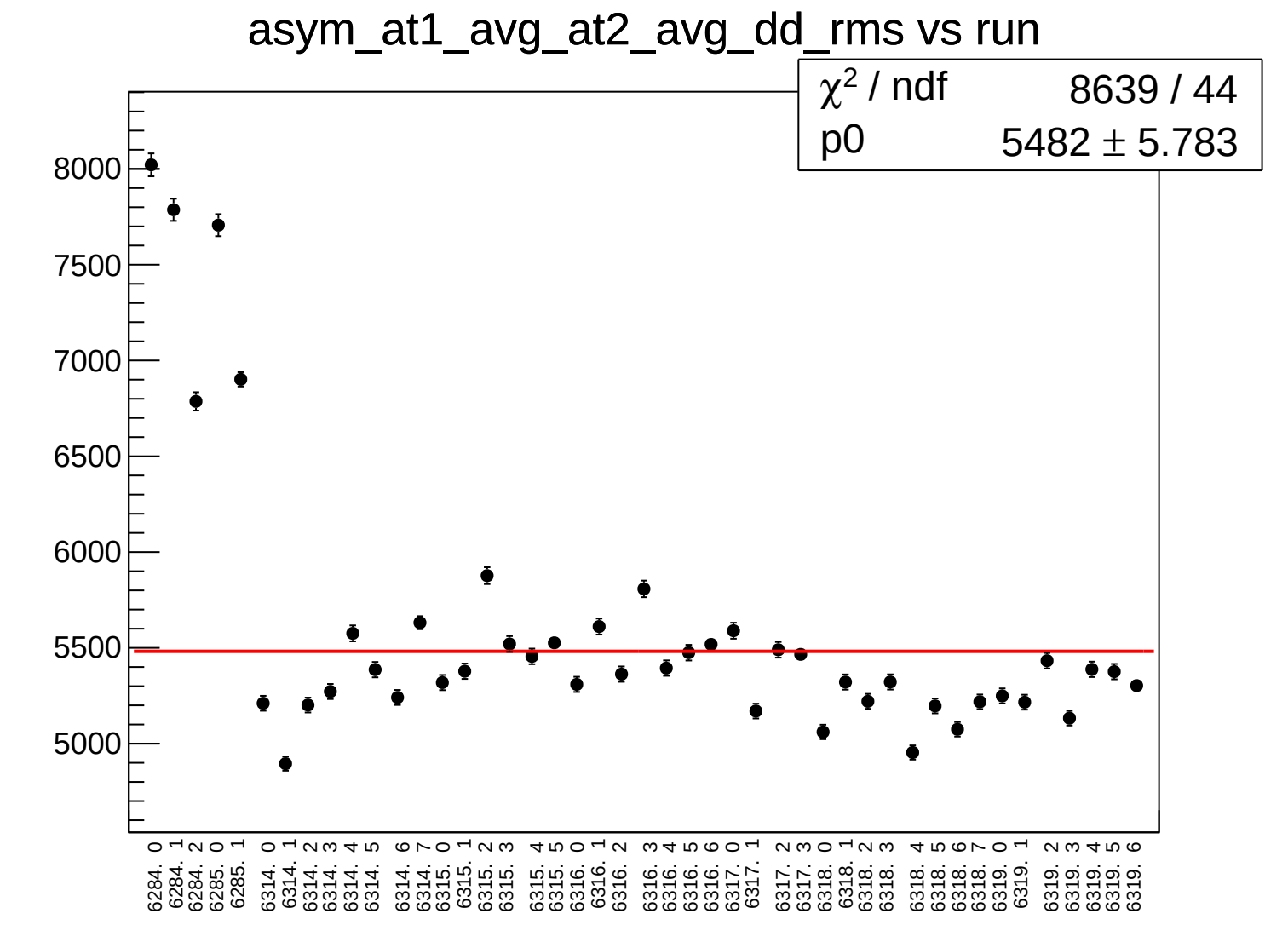

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 40.06 / 44
p0 −6820 ± 8179
200
150
100
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4130
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0004687
Std Dev 0.9436
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 8639 / 44
p0 5482 ± 5.783
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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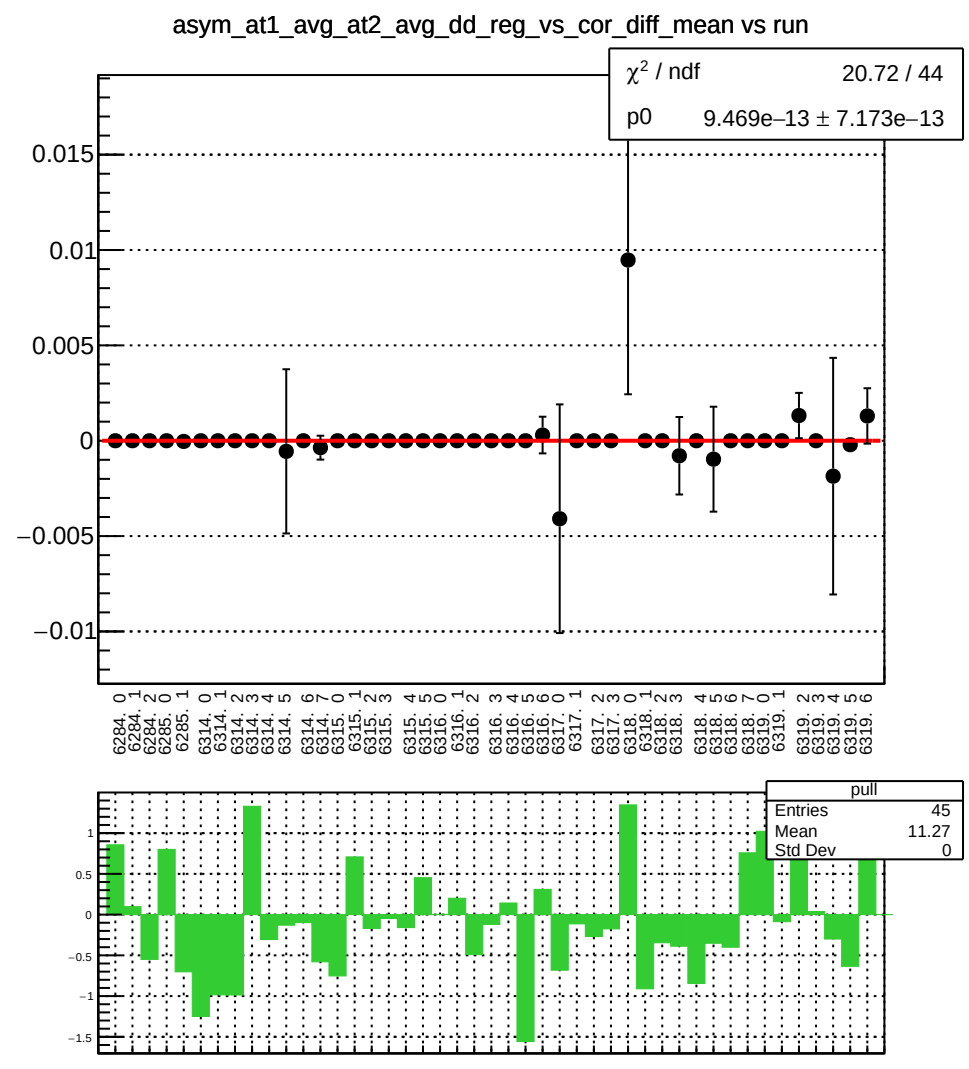
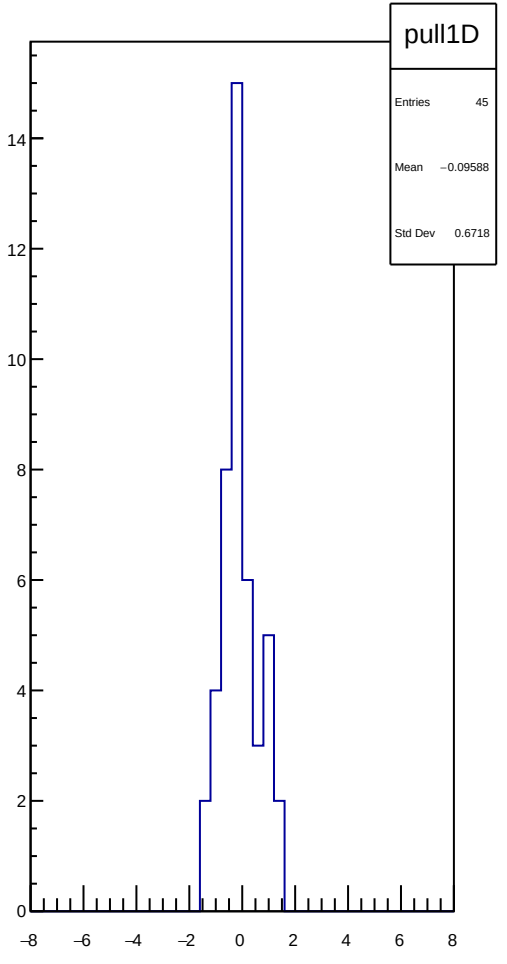
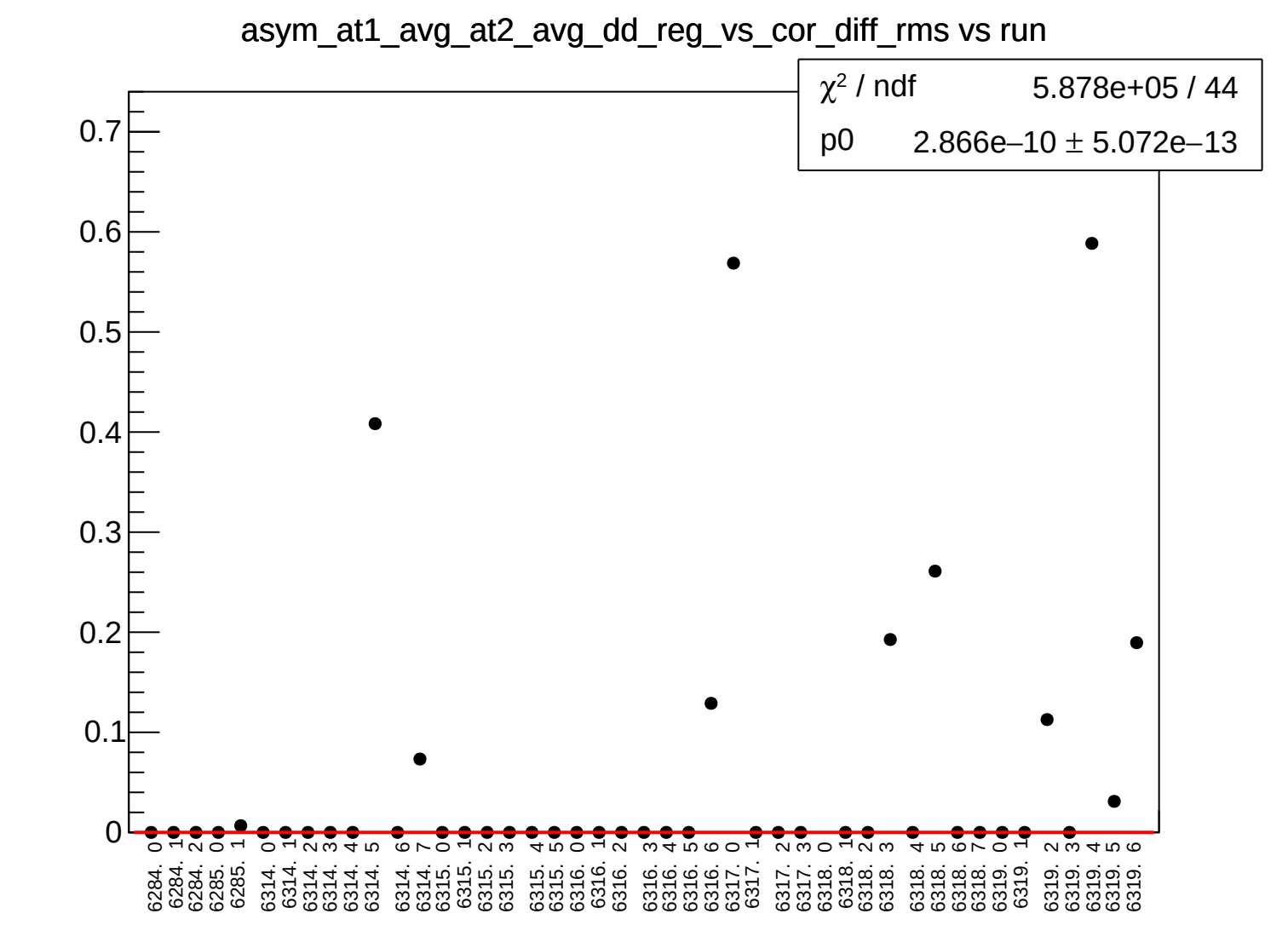
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.72 / 44
p0 9.469e−13 ± 7.173e−13
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.09588
Std Dev 0.6718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.878e+05 / 44
p0 2.866e−10 ± 5.072e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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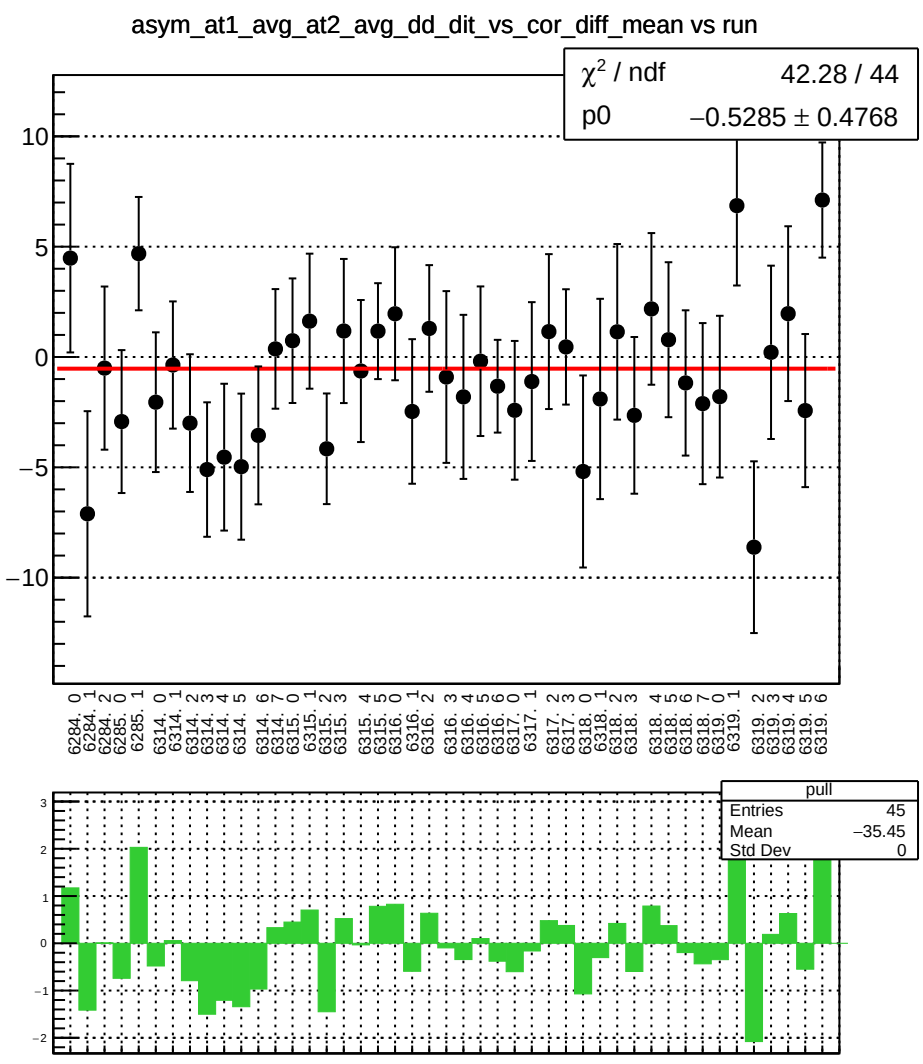
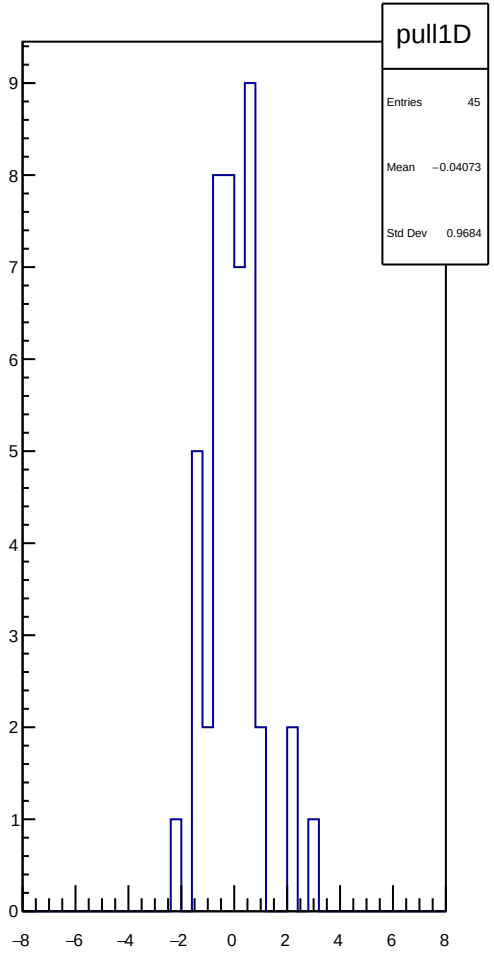
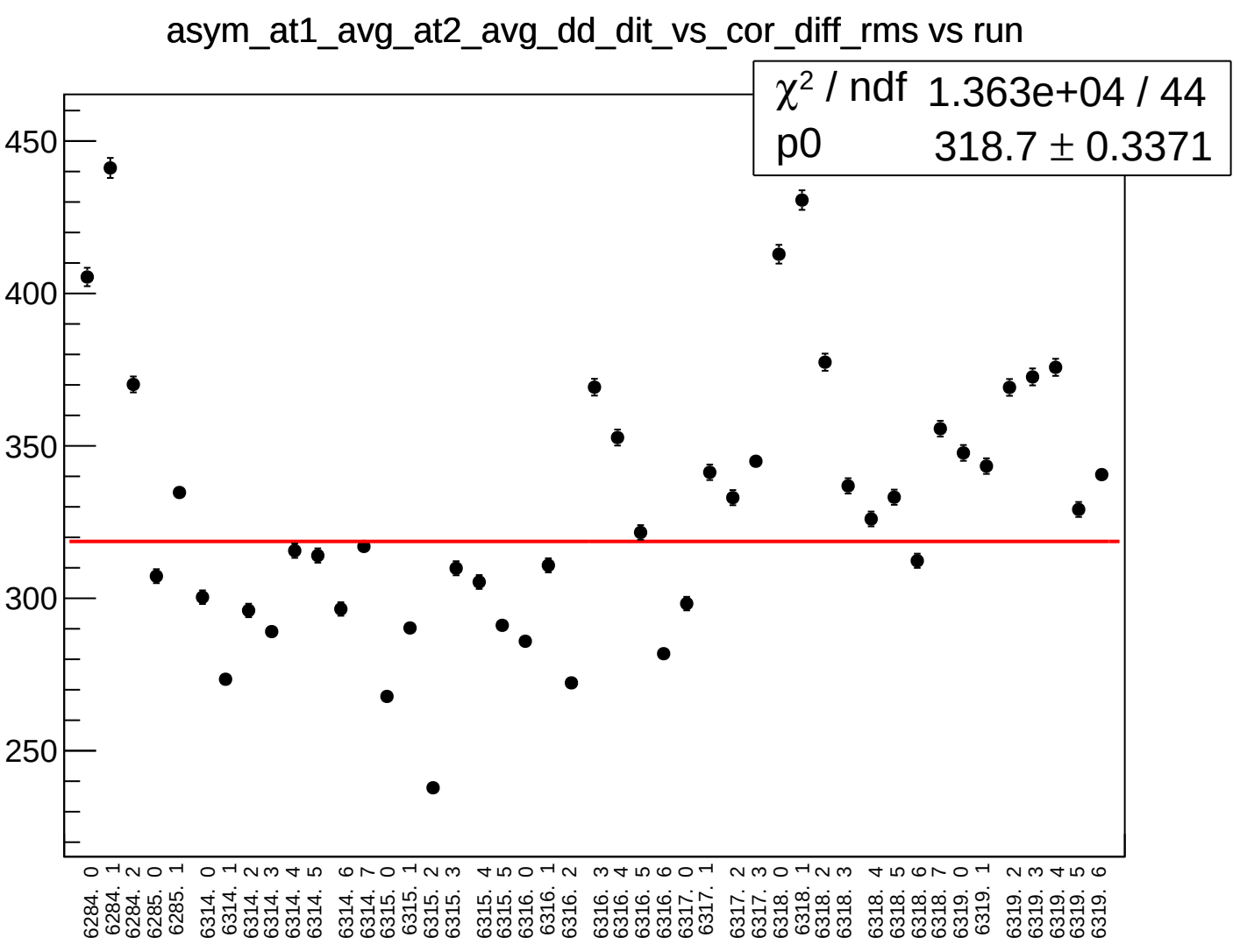
6319. 6


asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6315. 0
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
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6319. 0
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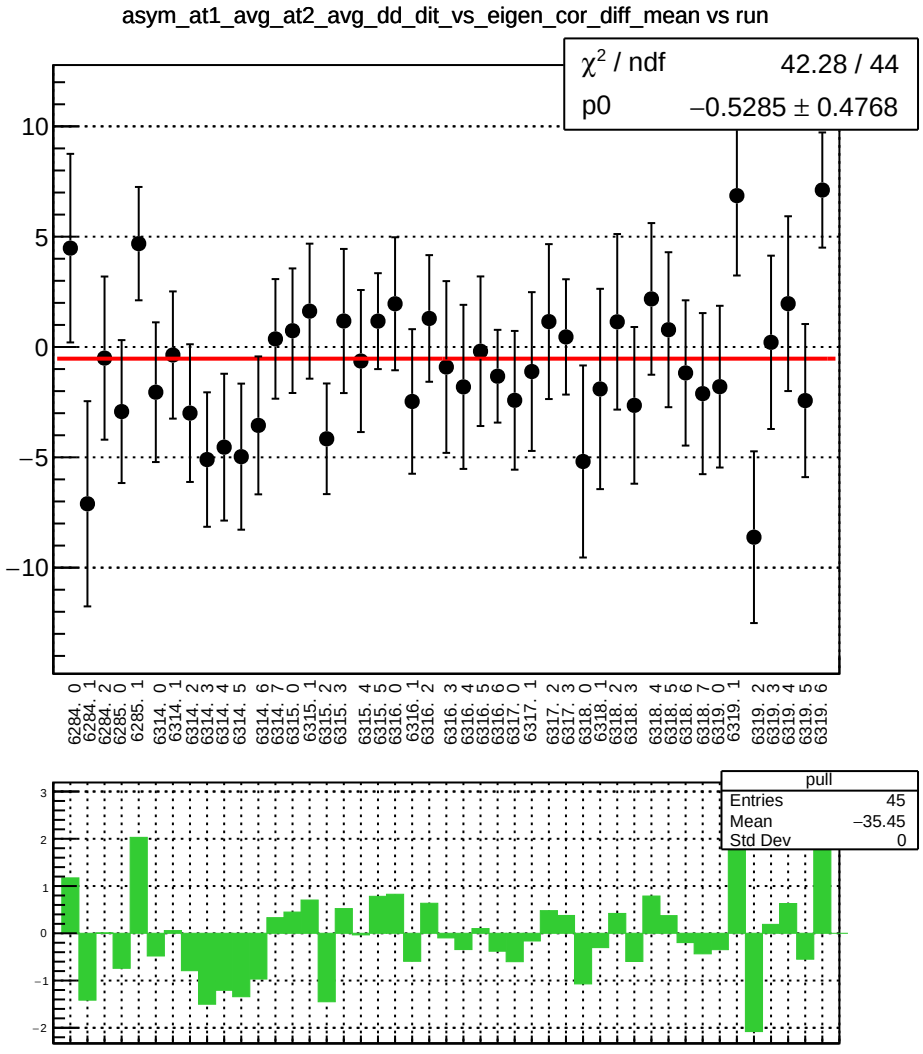
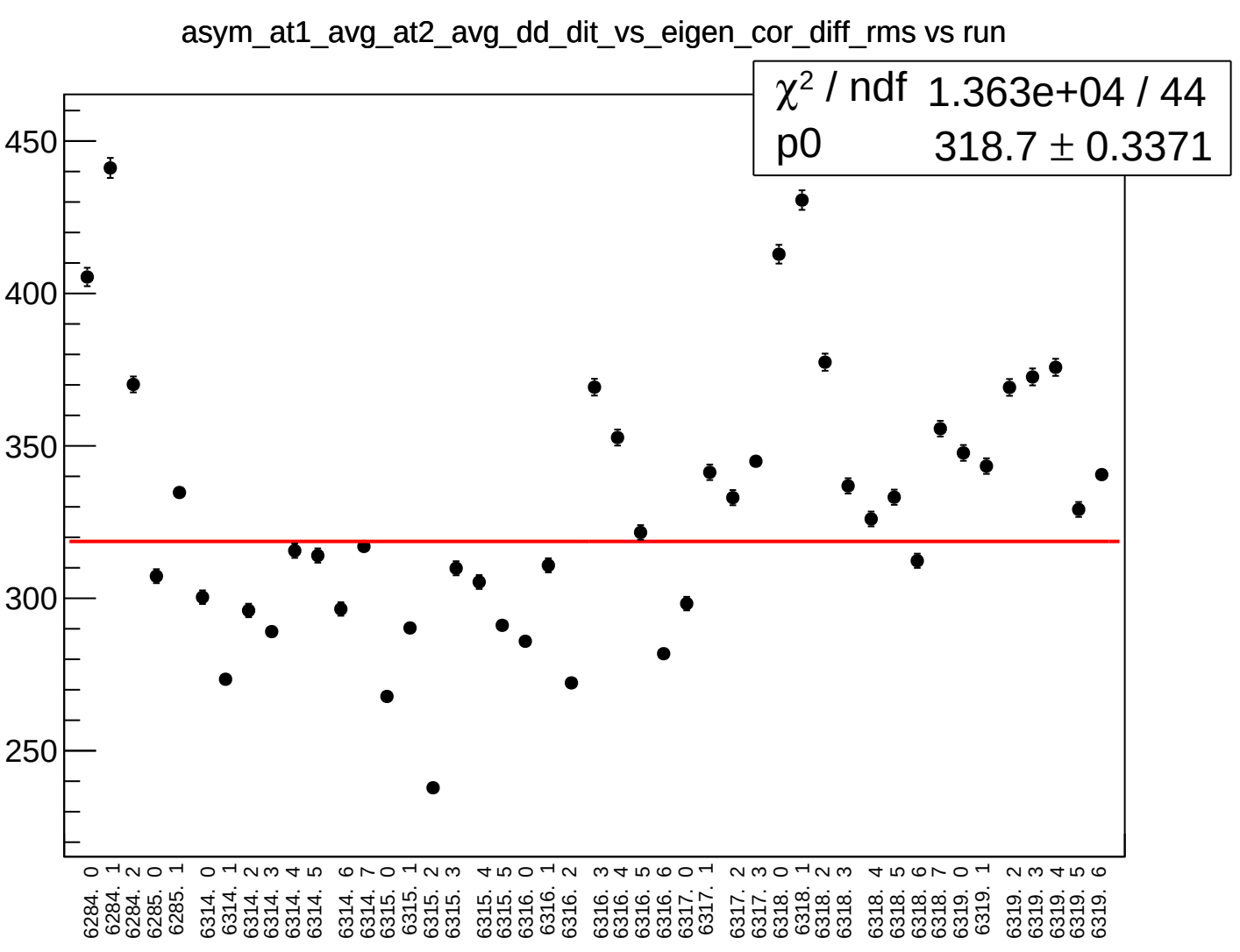
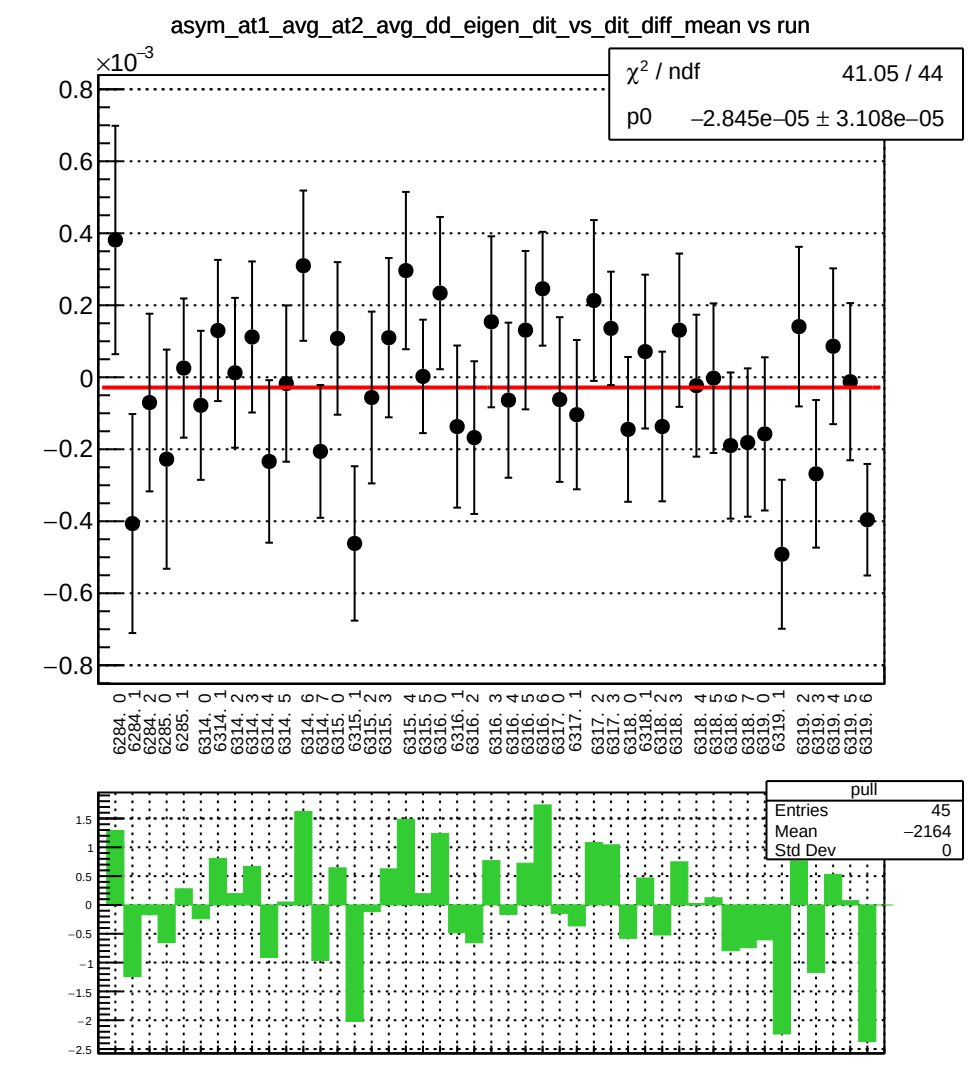
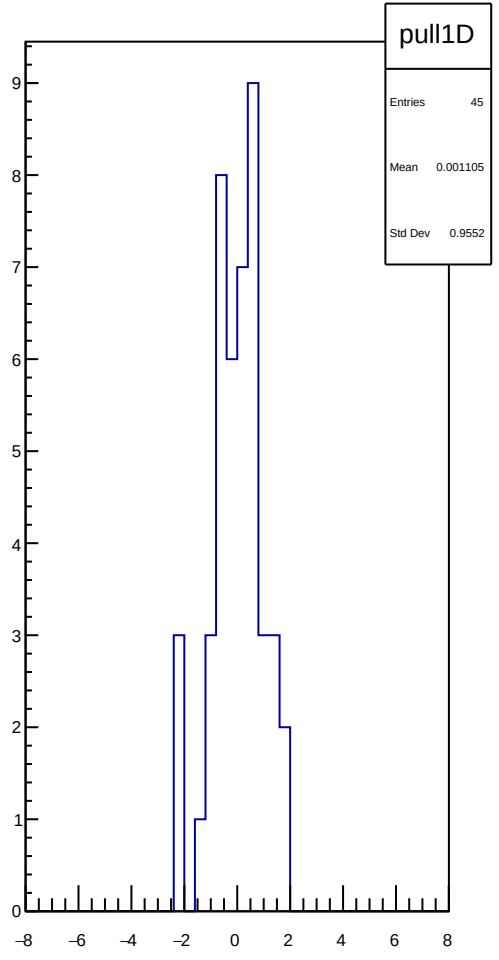
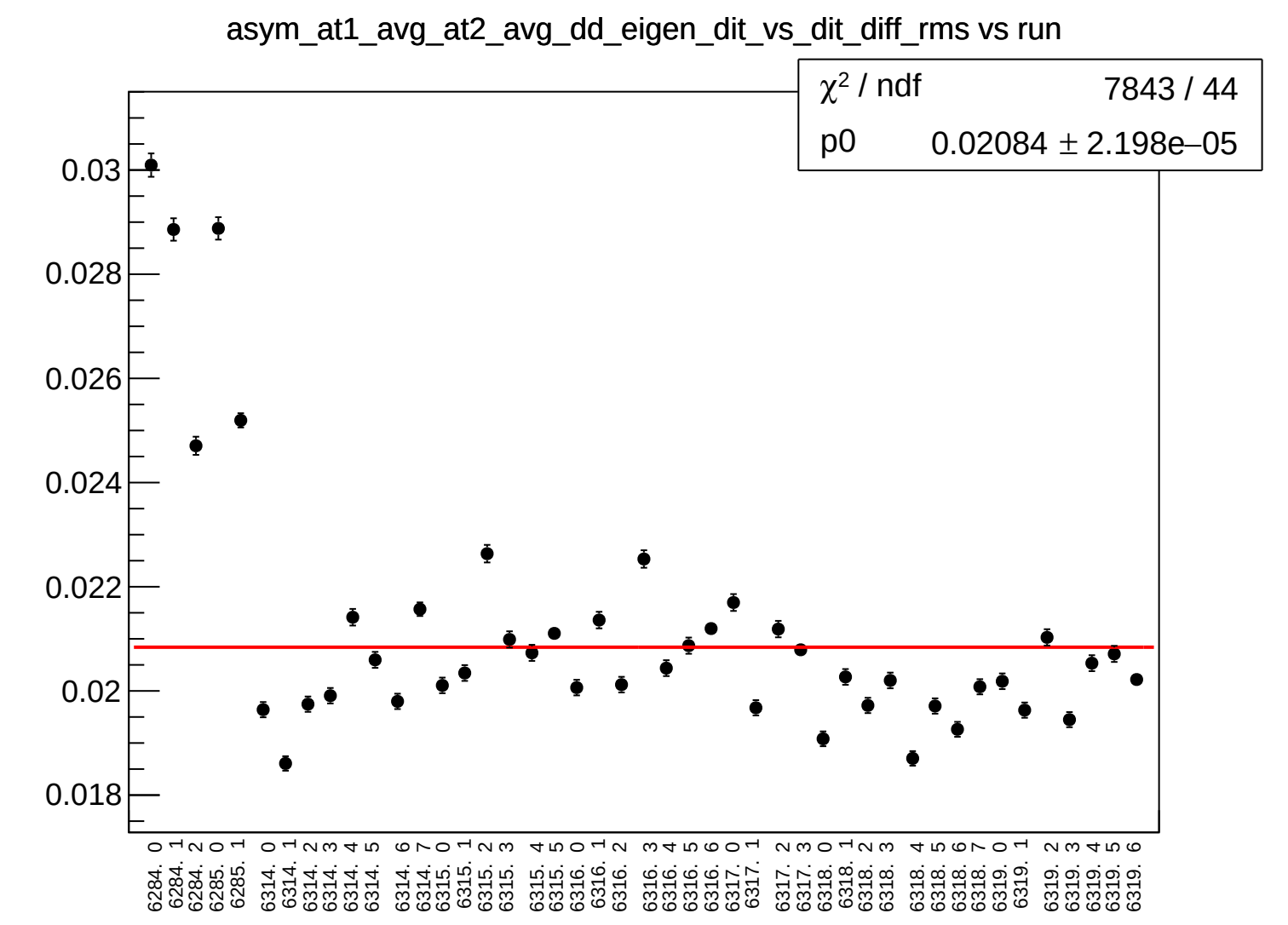
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

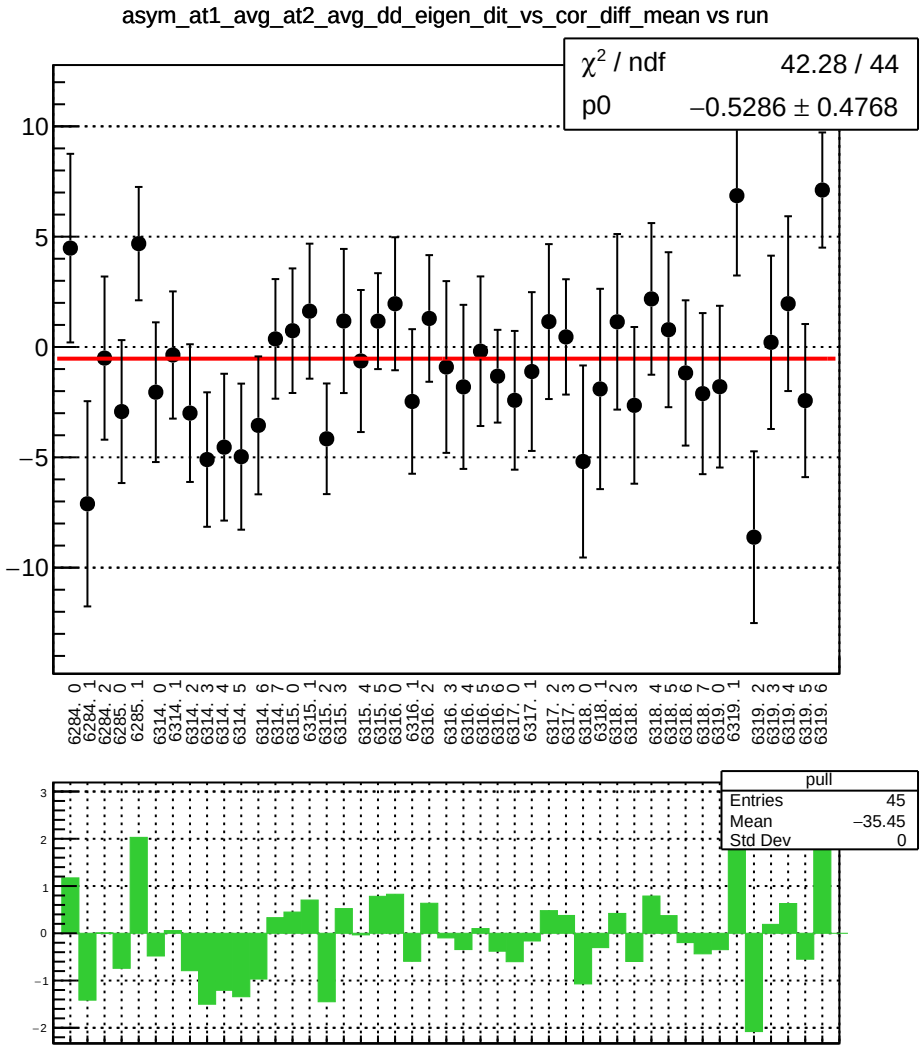

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

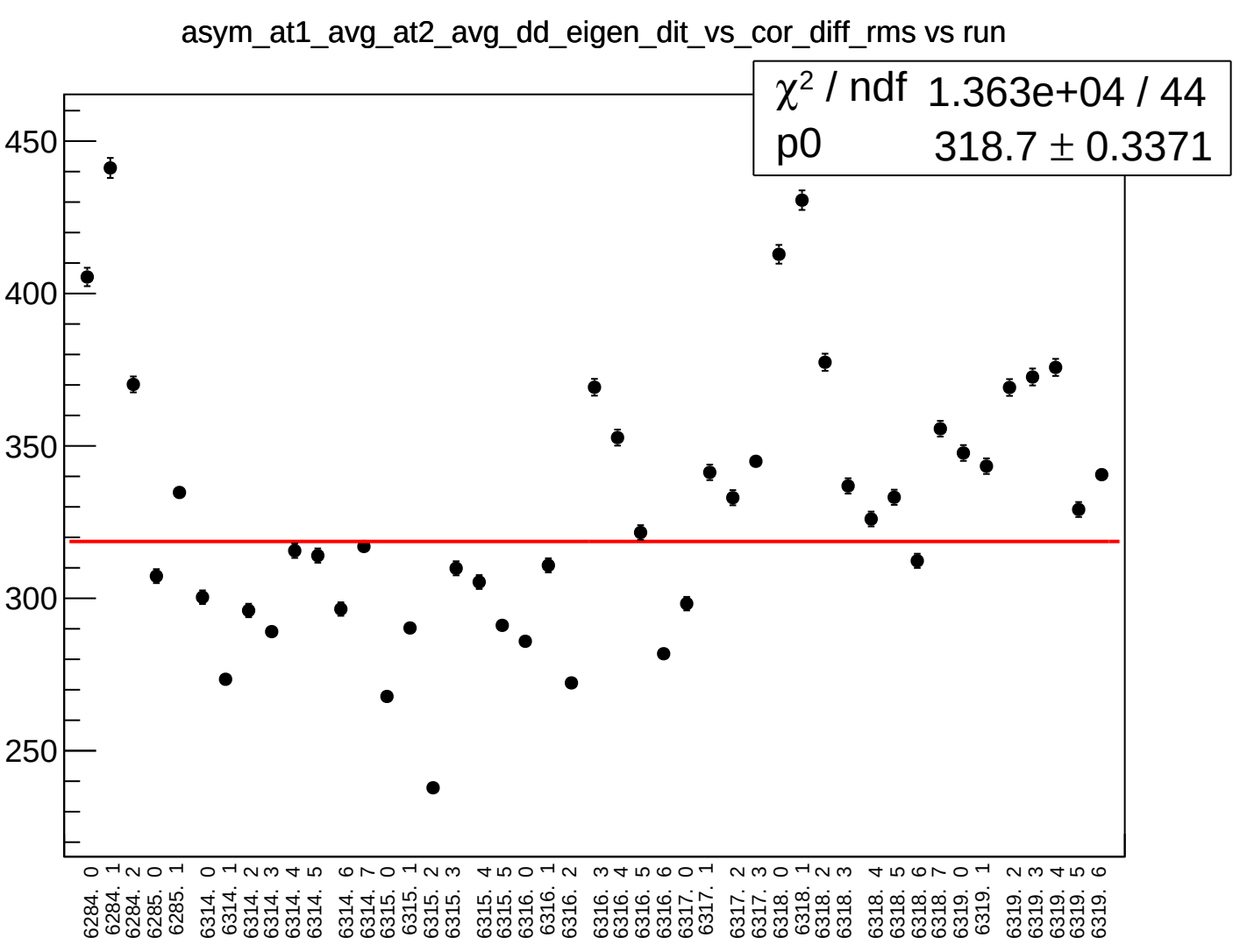

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

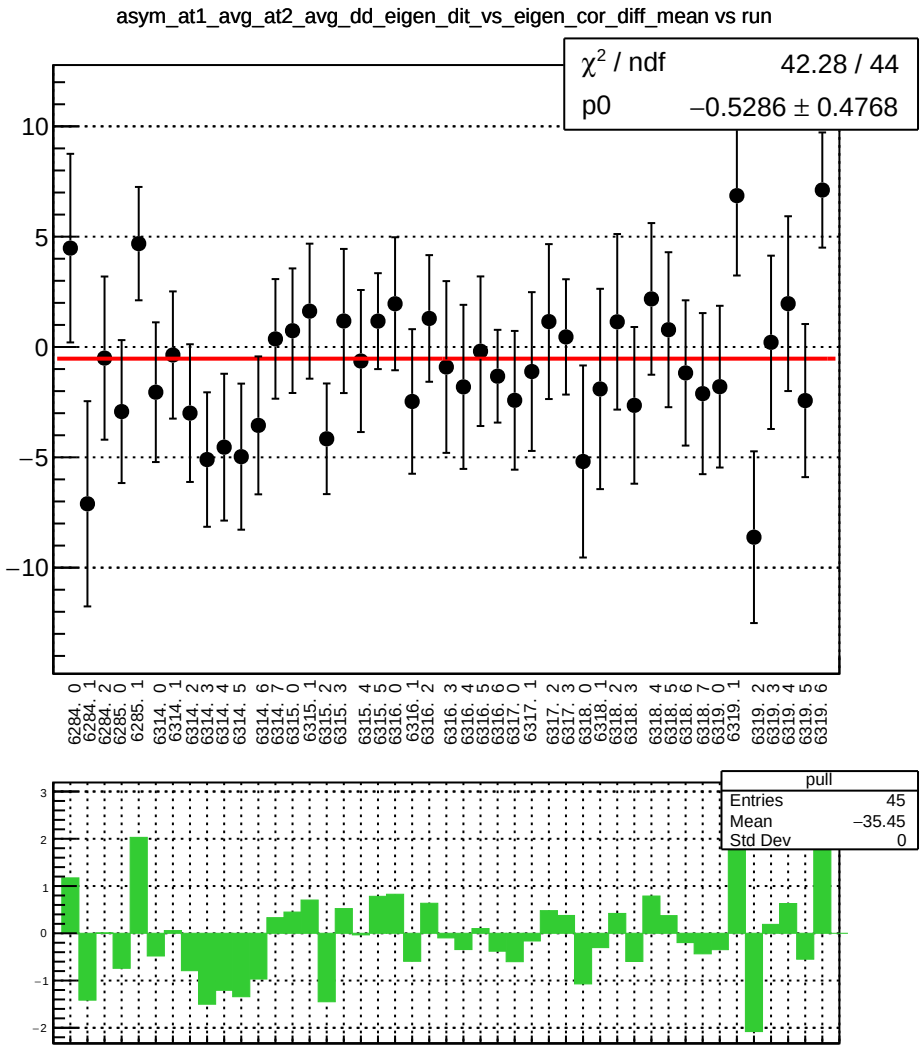

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.05 / 44
p0 −2.845e−05 ± 3.108e−05
pull
Entries 45
Mean −2164
Std Dev 0

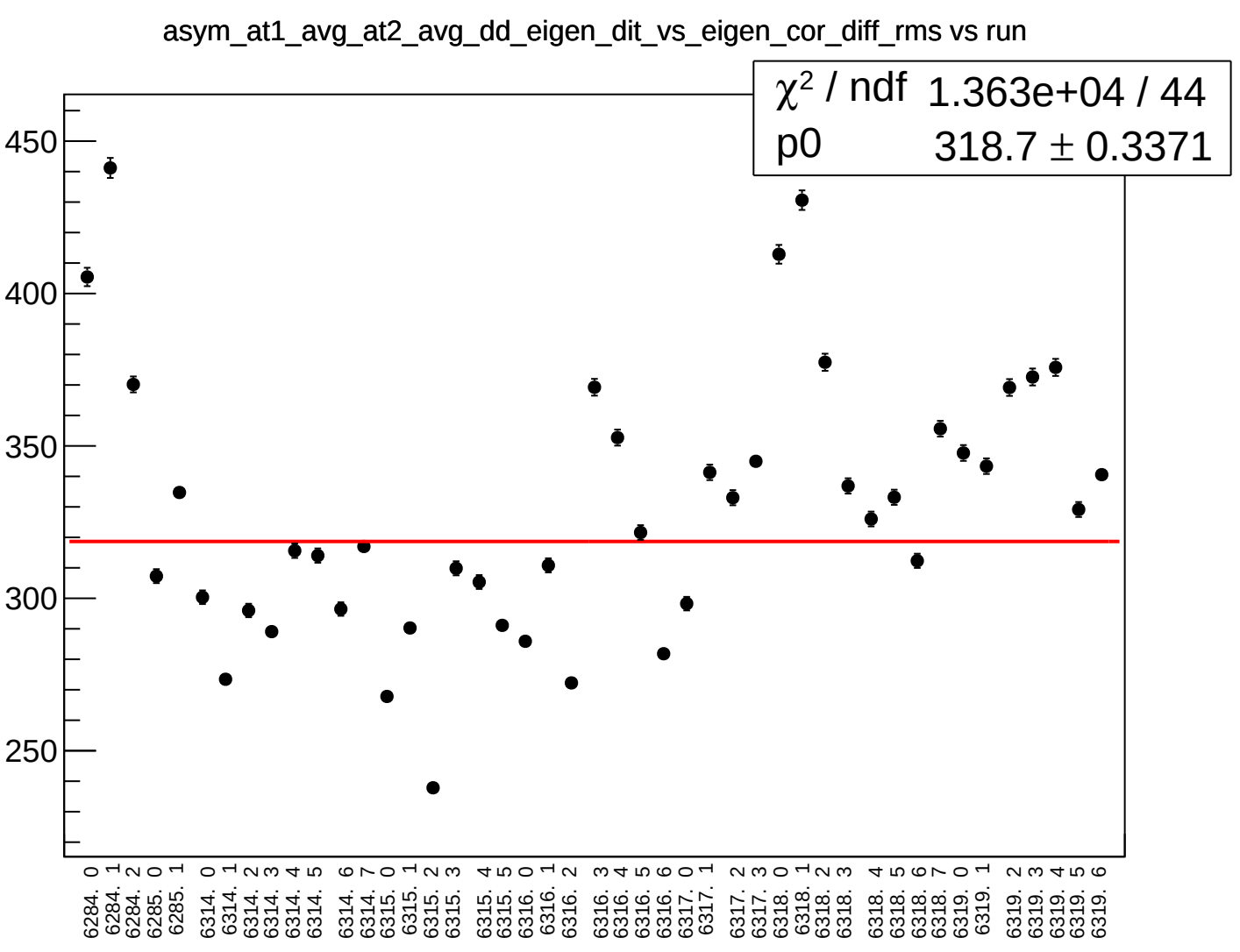

pull1D
Entries 45
Mean 0.001105
Std Dev 0.9552

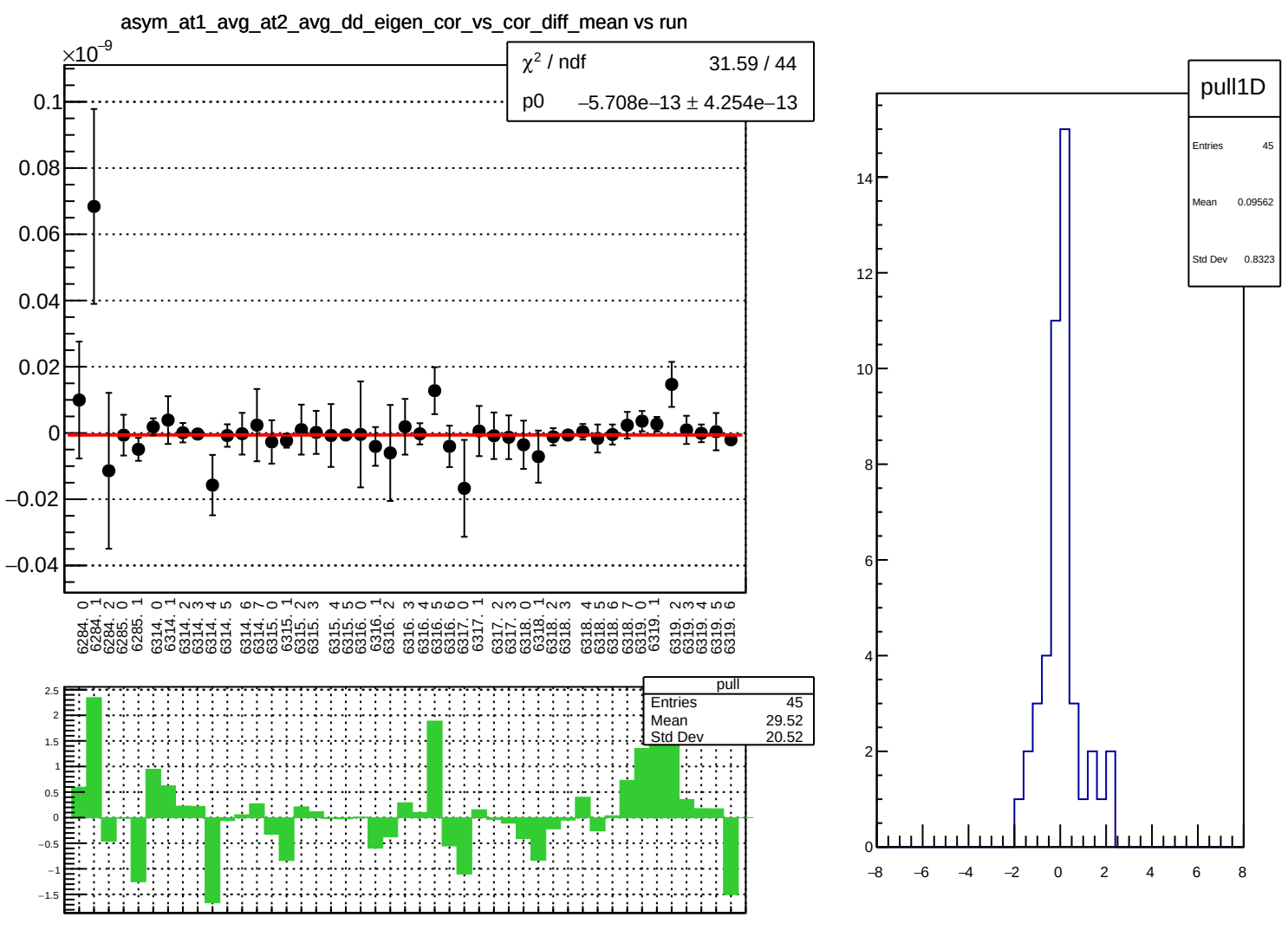

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7843 / 44
p0 0.02084 ± 2.198e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

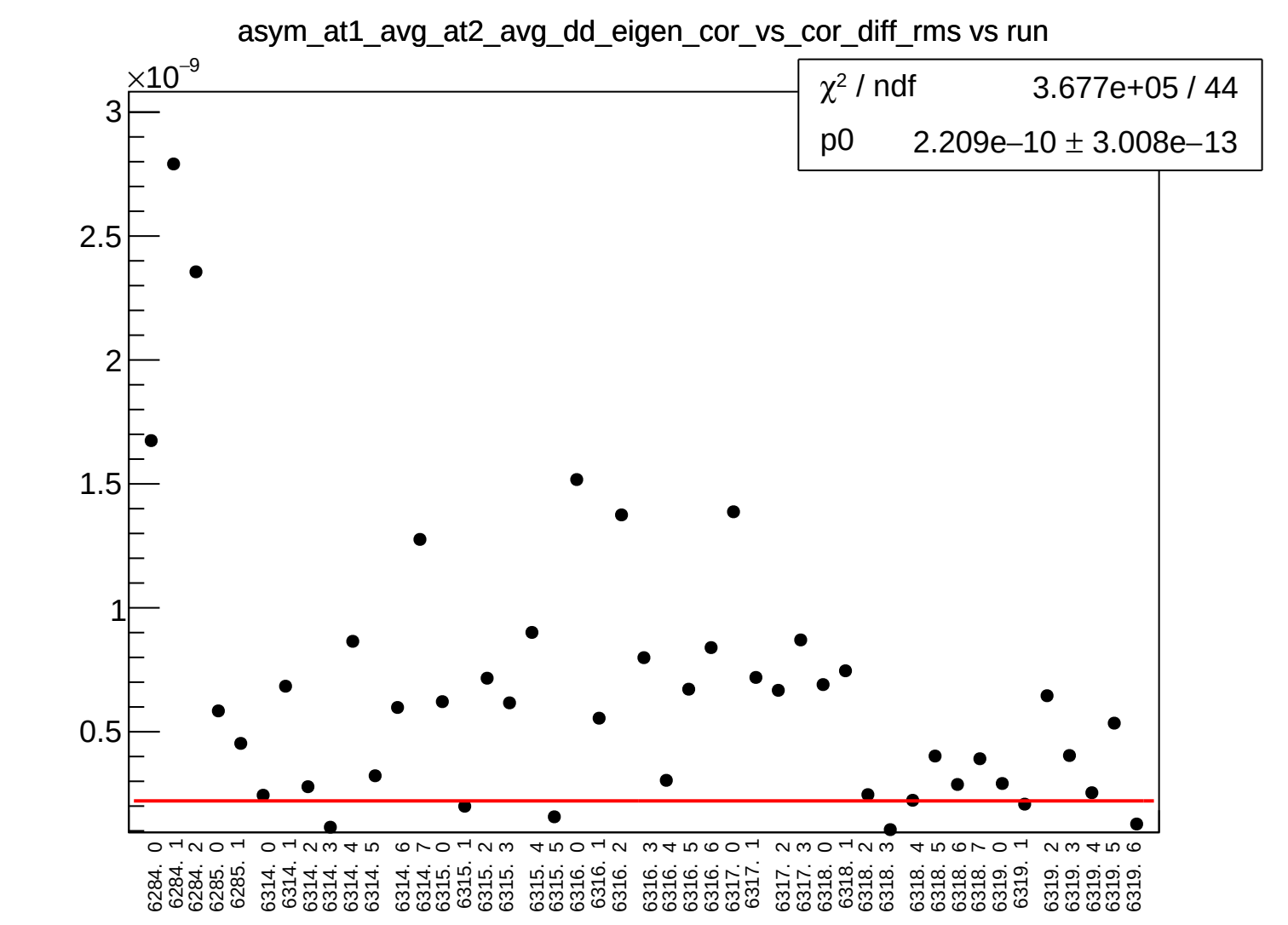

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

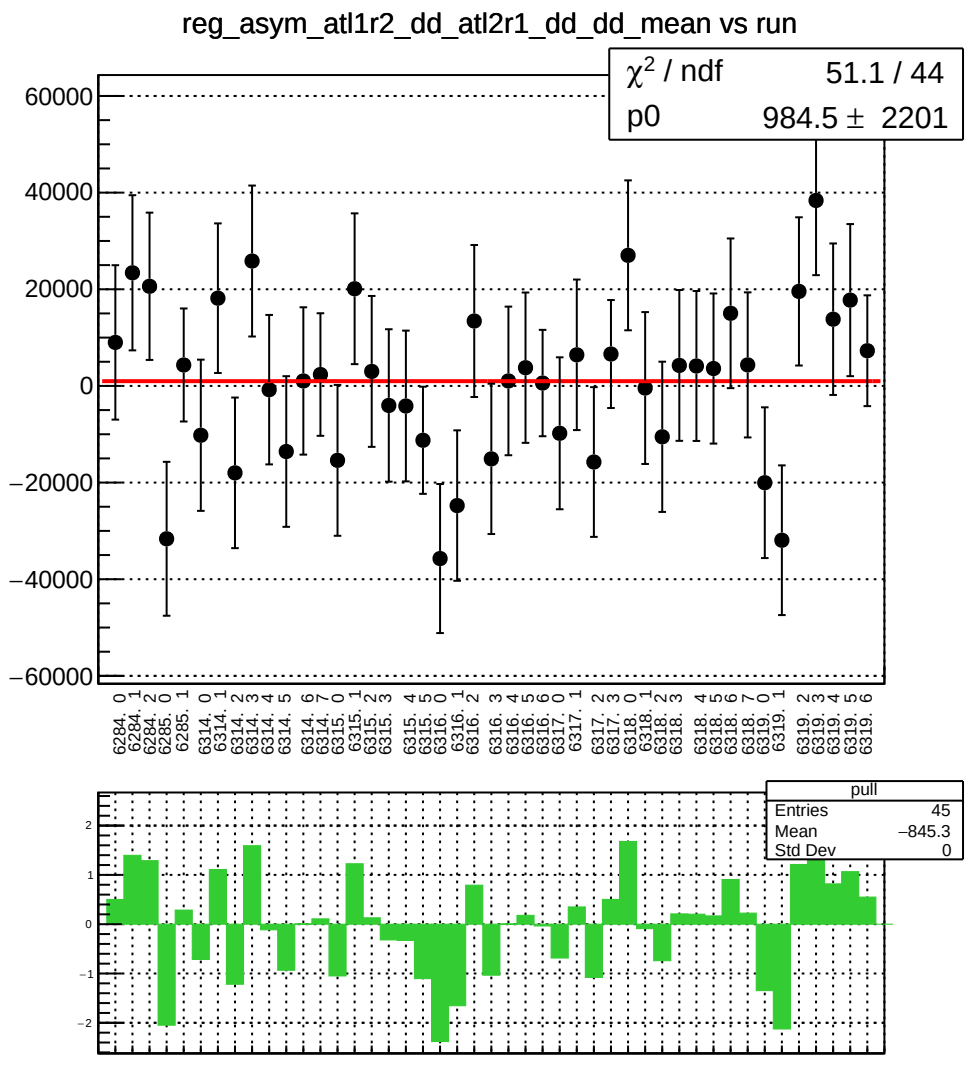

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 31.59 / 44
p0 −5.708e−13 ± 4.254e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.52
Std Dev 20.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.09562
Std Dev 0.8323
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.677e+05 / 44
p0 2.209e−10 ± 3.008e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.5 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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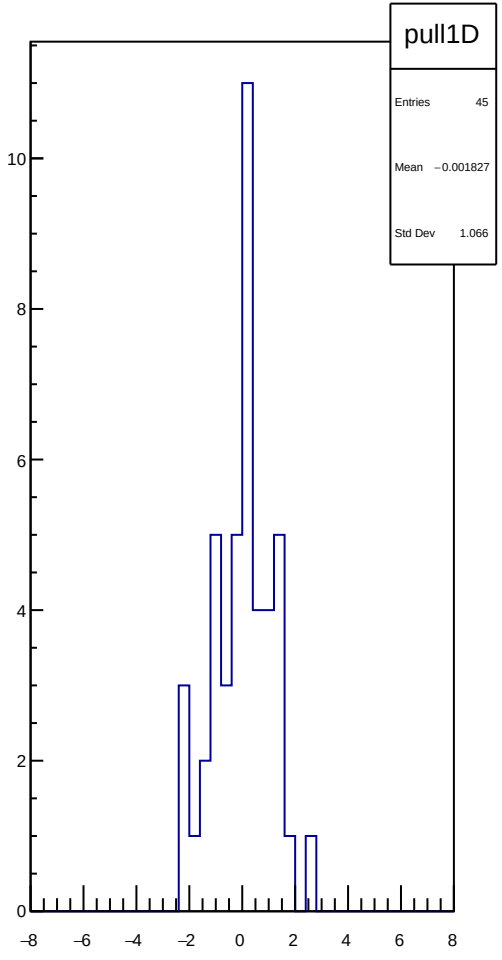
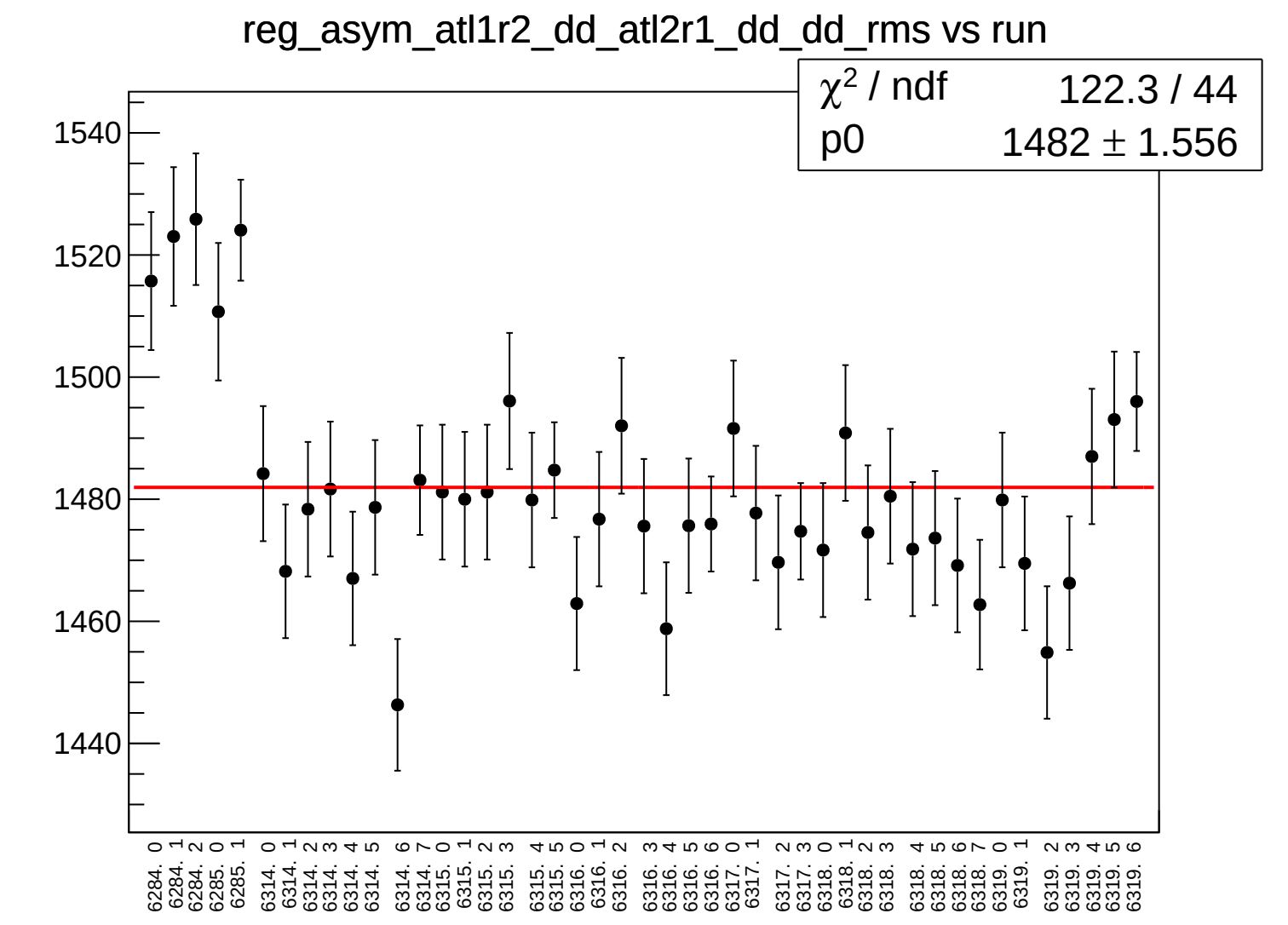
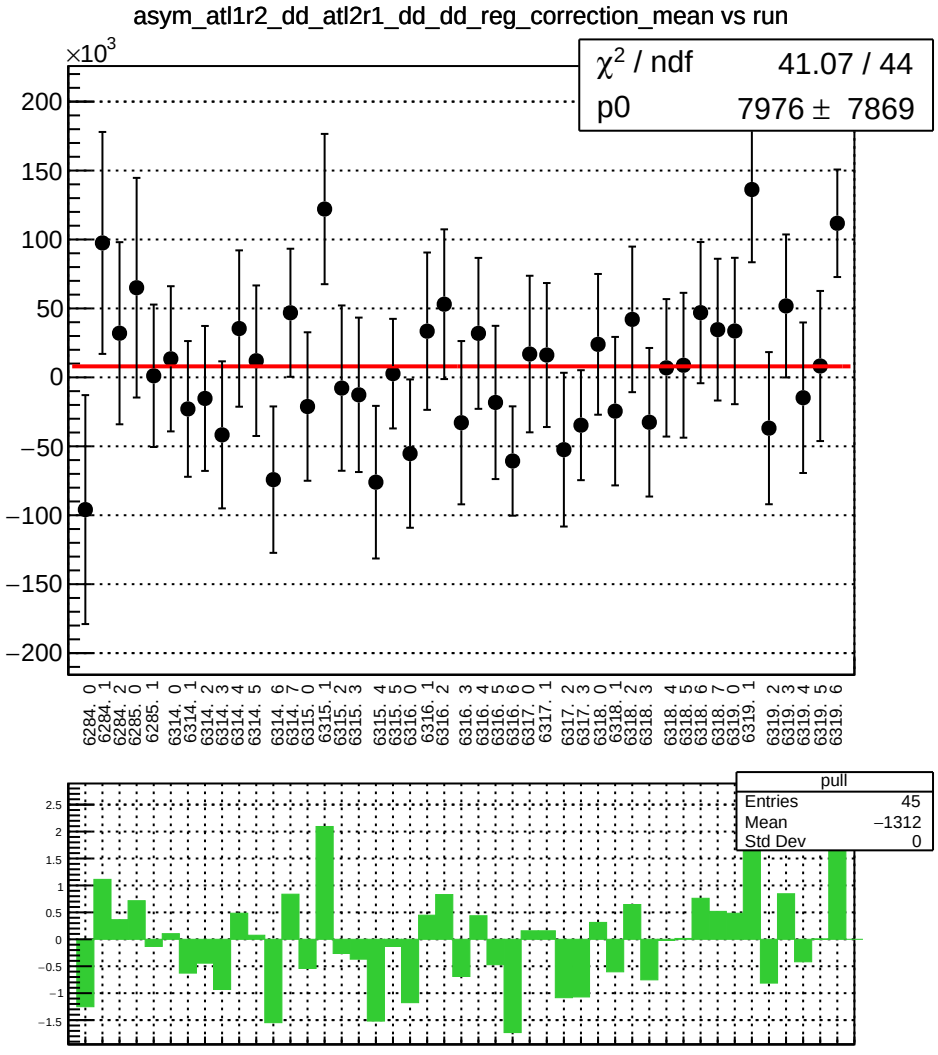
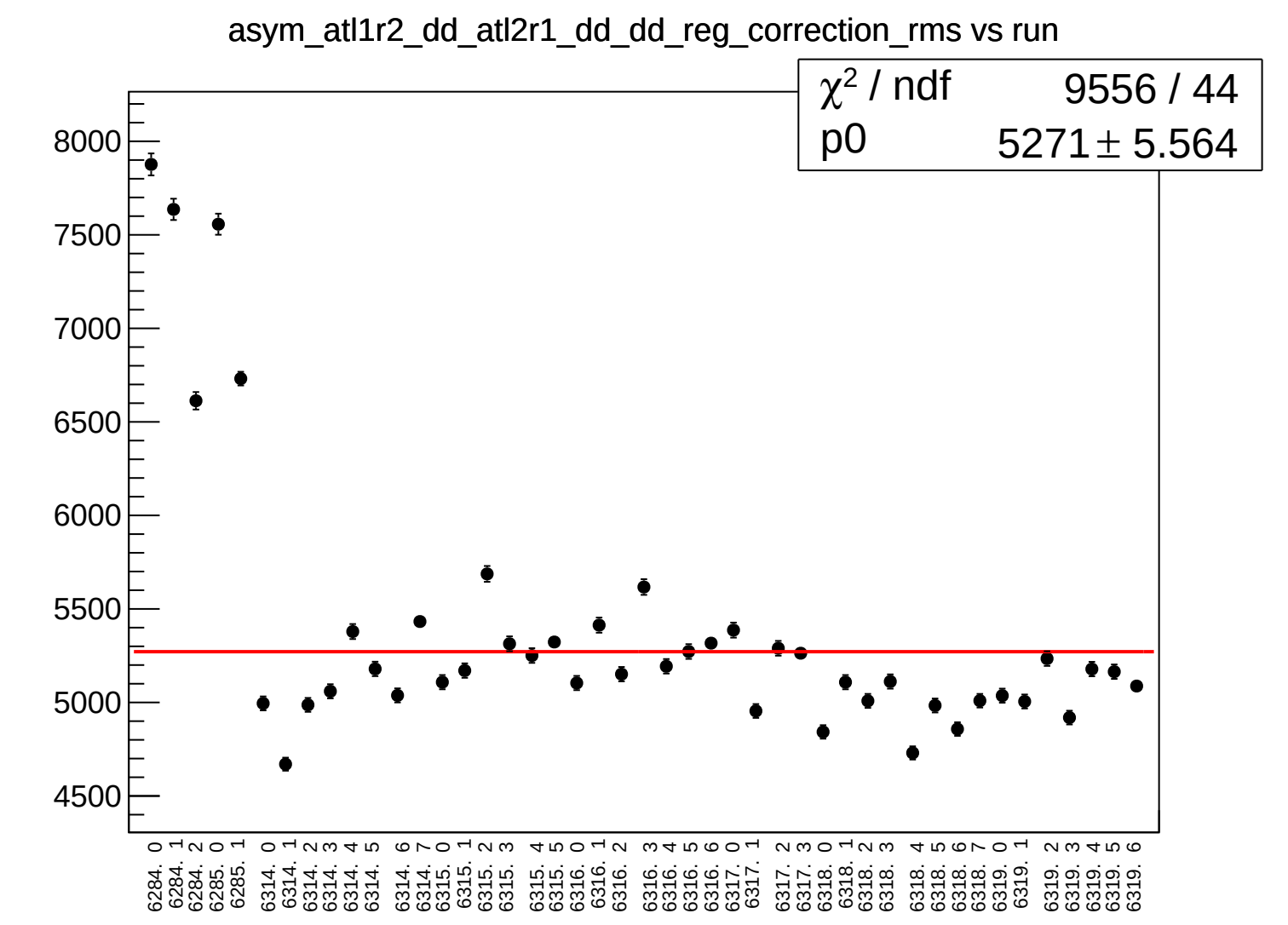
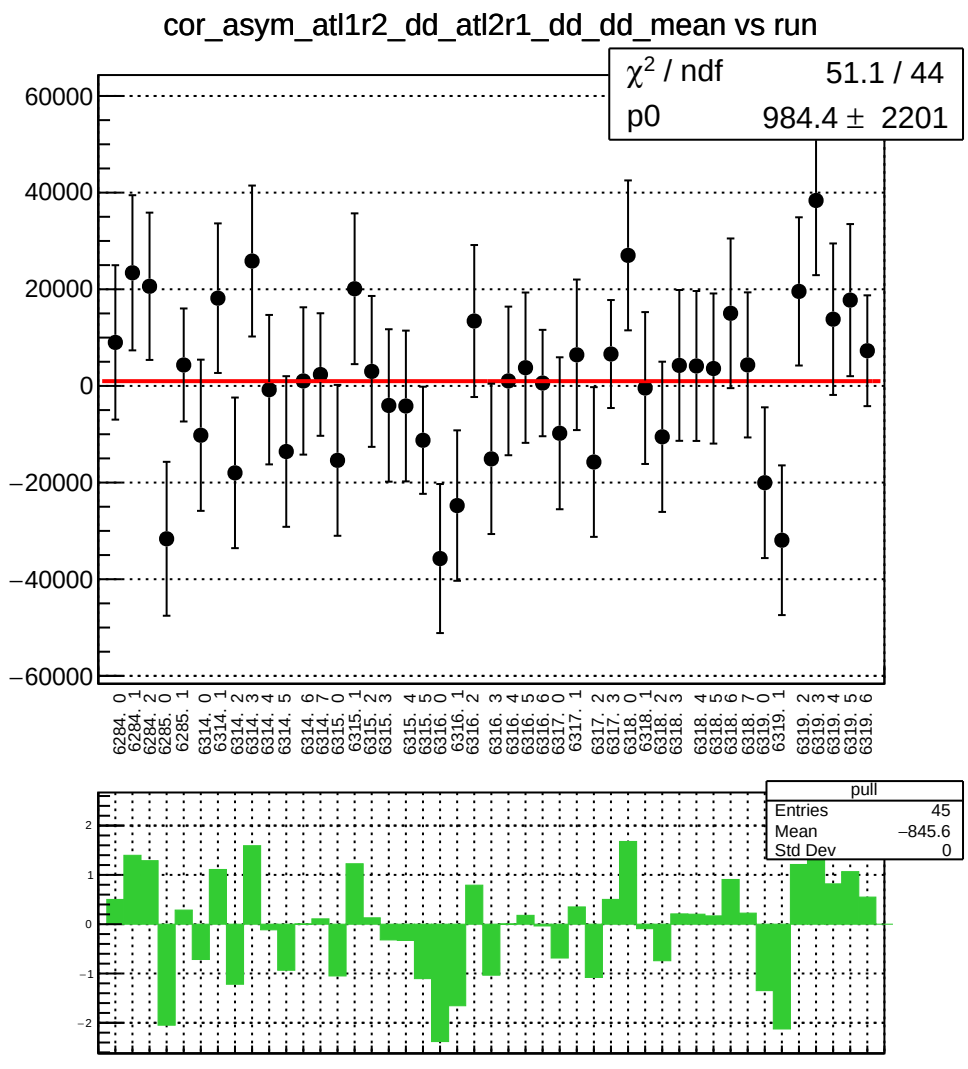
6319. 5
6319. 6
pull
Entries 45
Mean −845.3
Std Dev 0
2
1
0
−1
−2

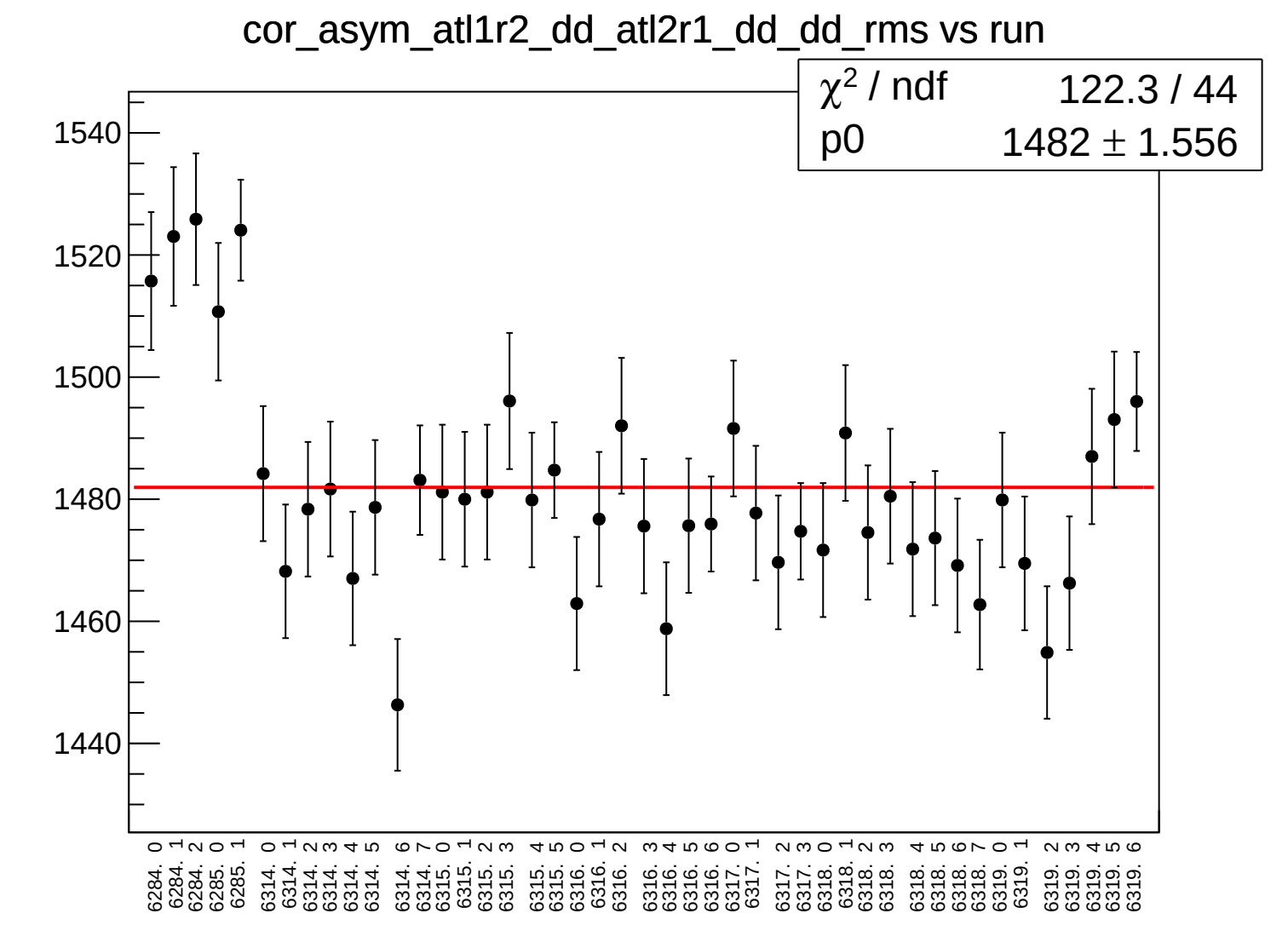

pull1D
Entries 45
Mean −0.001827
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1312
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001887
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 9556 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
pull
Entries 45
Mean −845.6
Std Dev 0
pull1D
Entries 45
Mean −0.001826
Std Dev 1.066


cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
6319. 3
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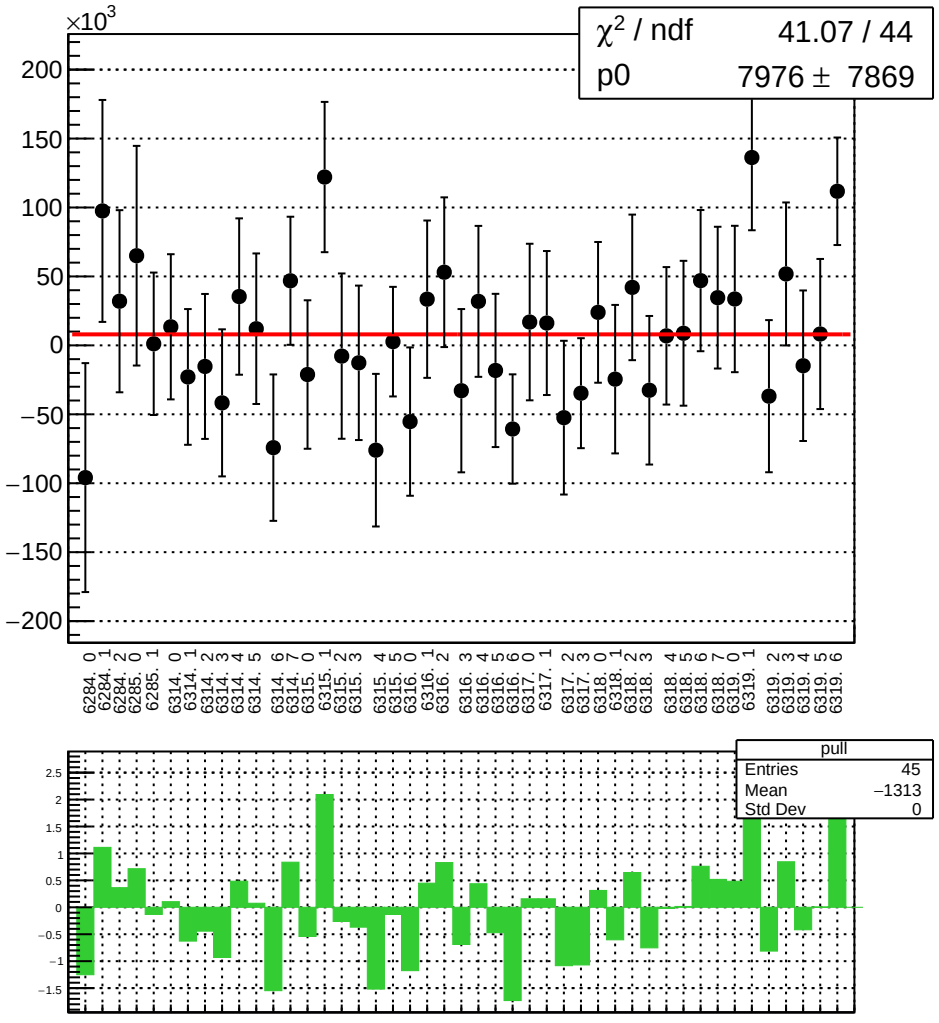
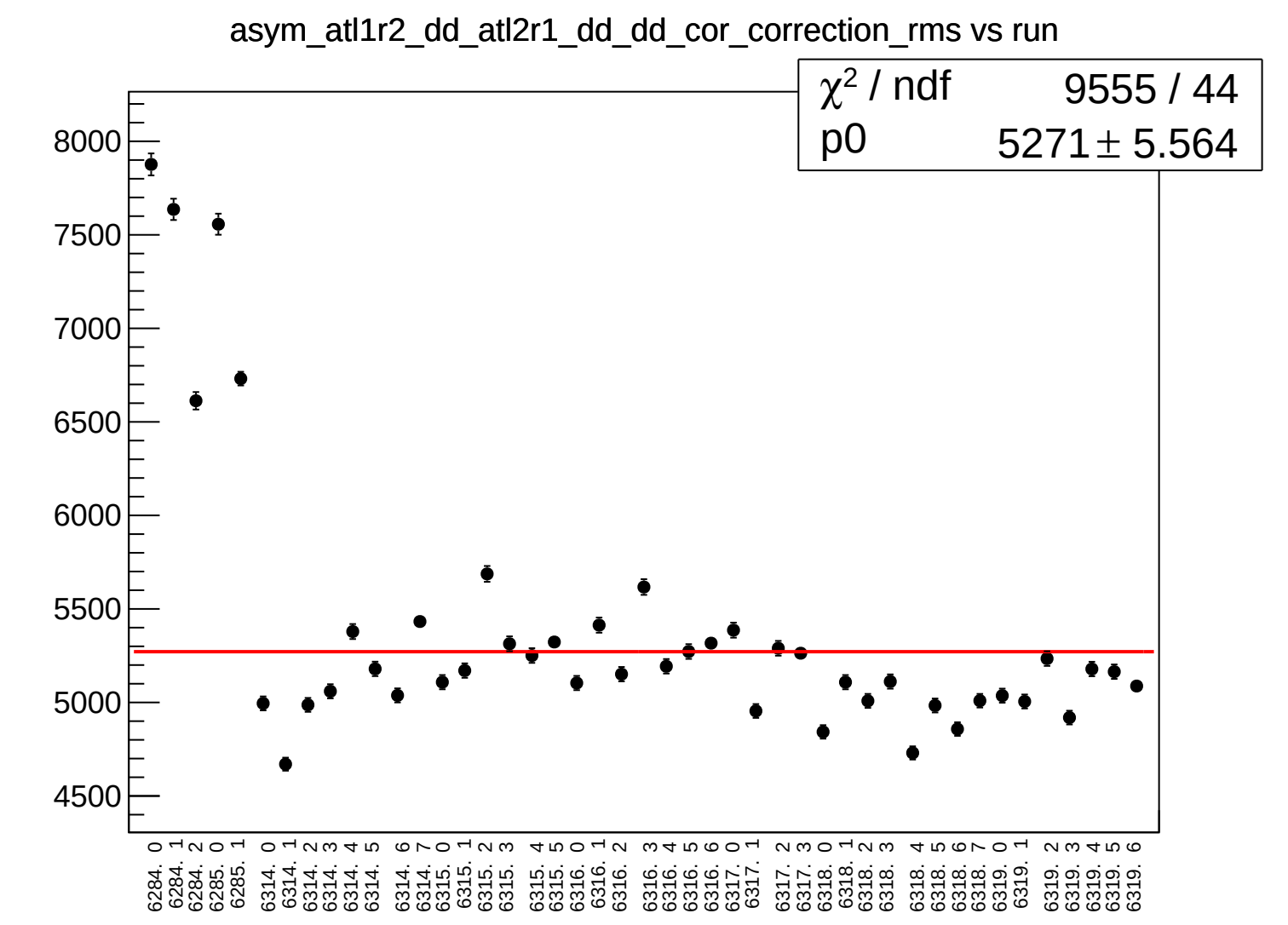
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001886
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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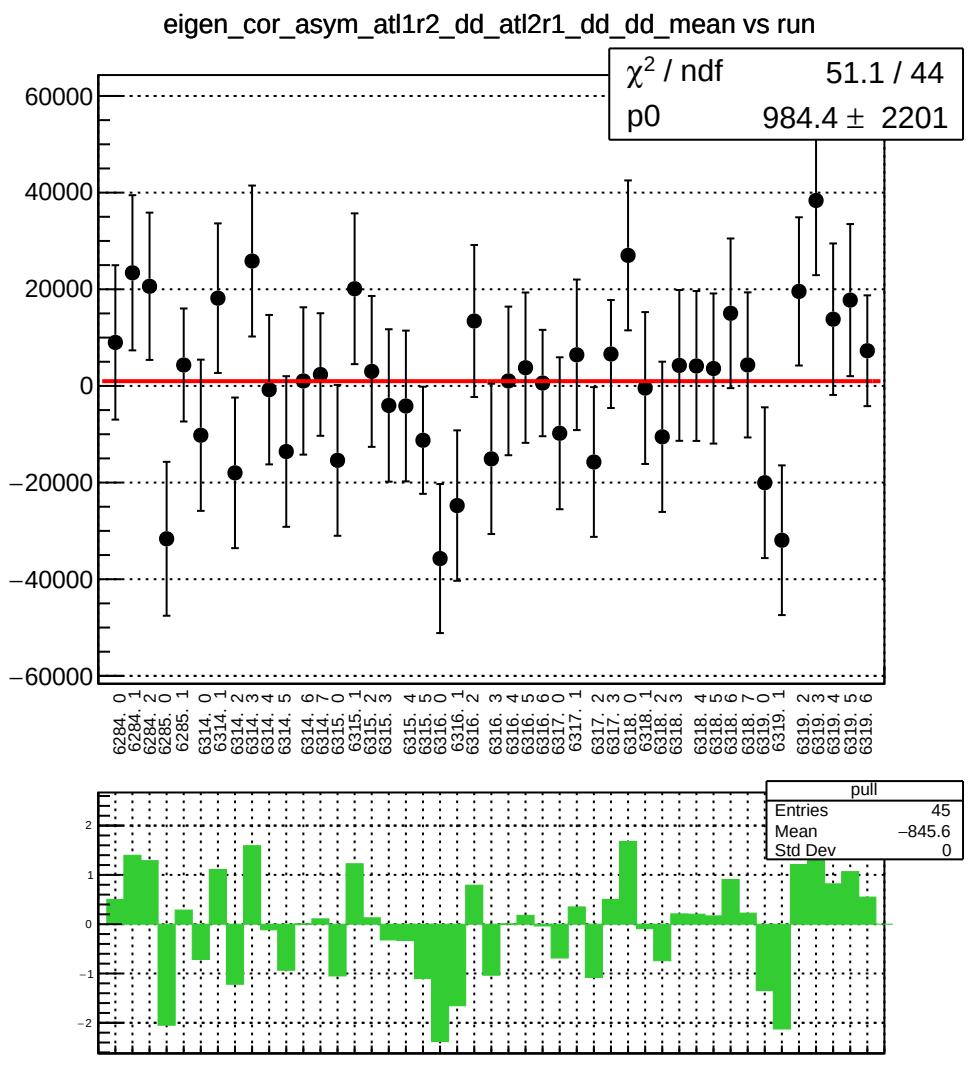
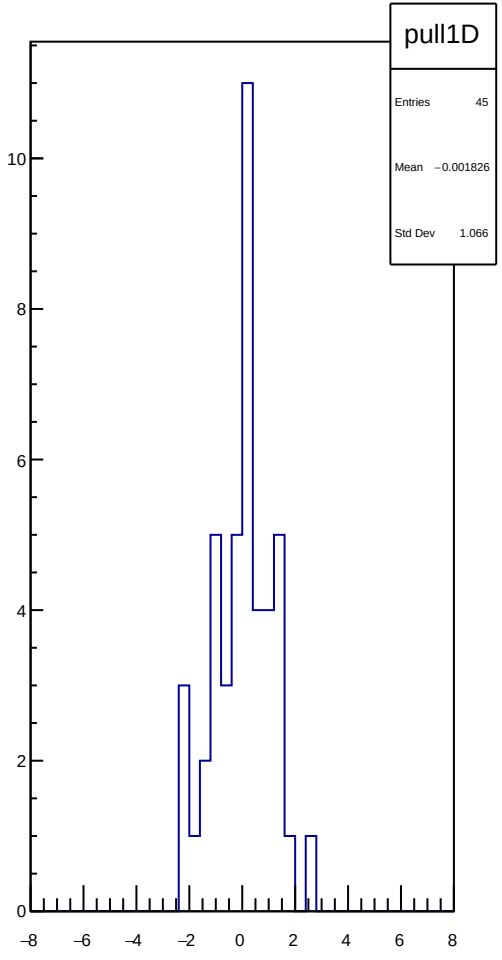
6319. 6


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 51.1 / 44
p0 984.4 ± 2201
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −845.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001826
Std Dev 1.066
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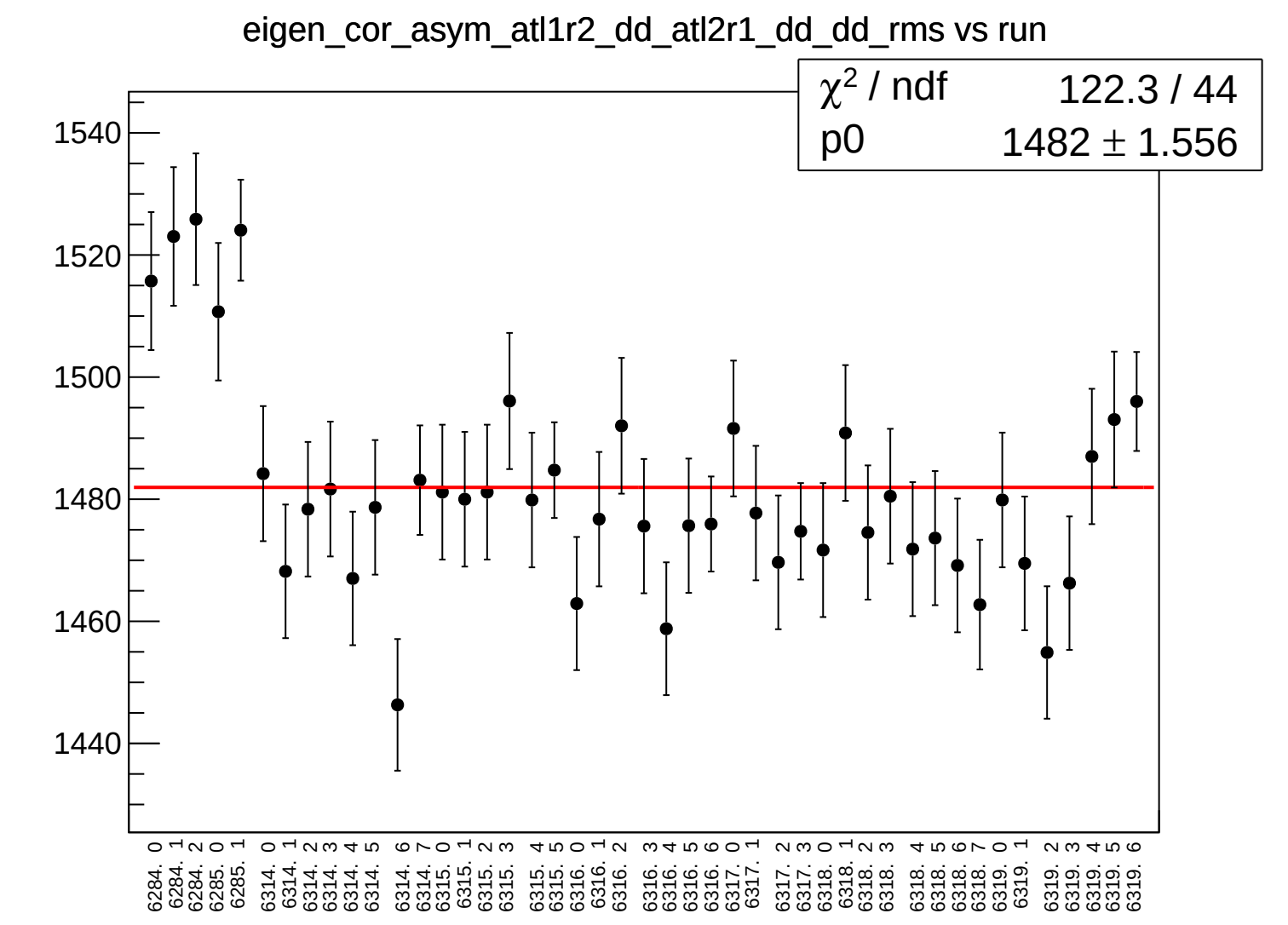
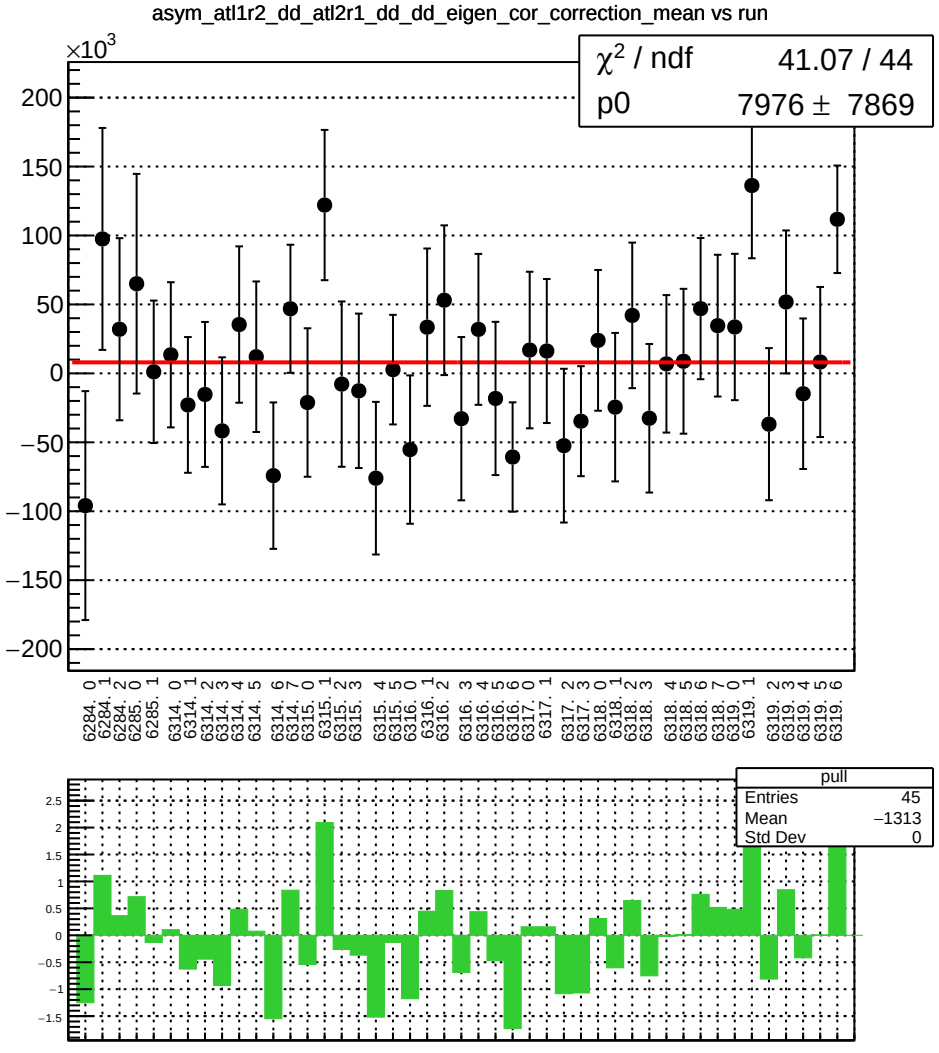
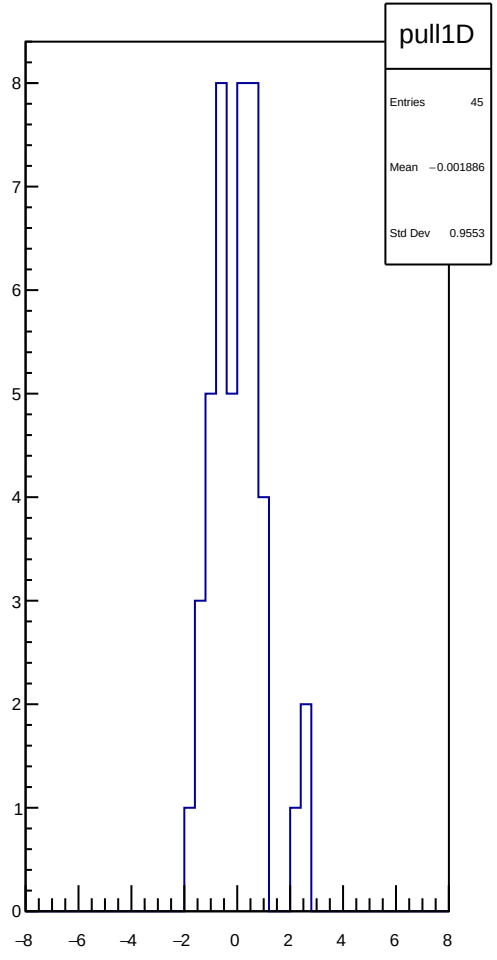
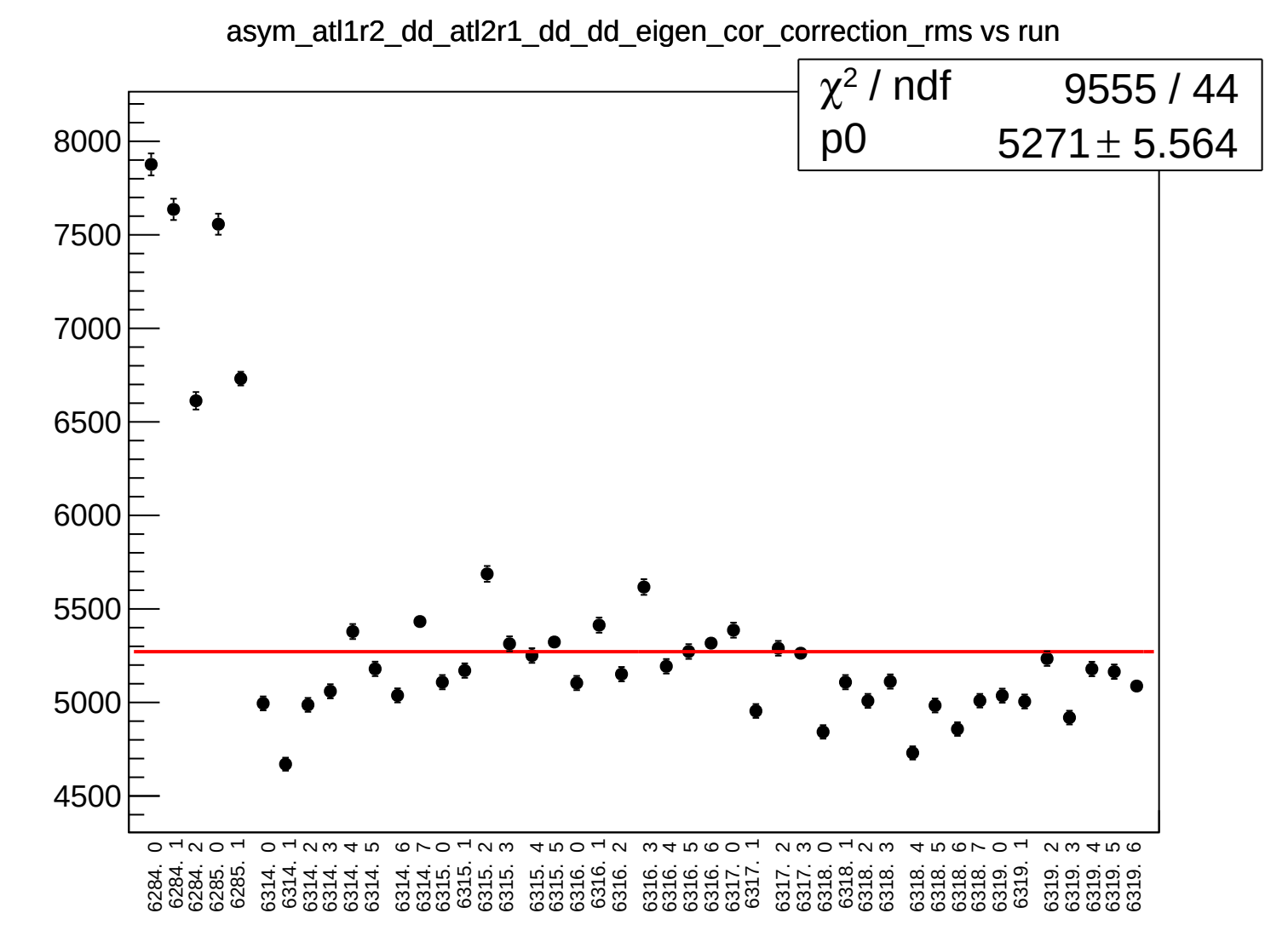
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 122.3 / 44
p0 1482 ± 1.556
1540
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 7976 ± 7869
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001886
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9555 / 44
p0 5271 ± 5.564
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6314. 2
6314. 3
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6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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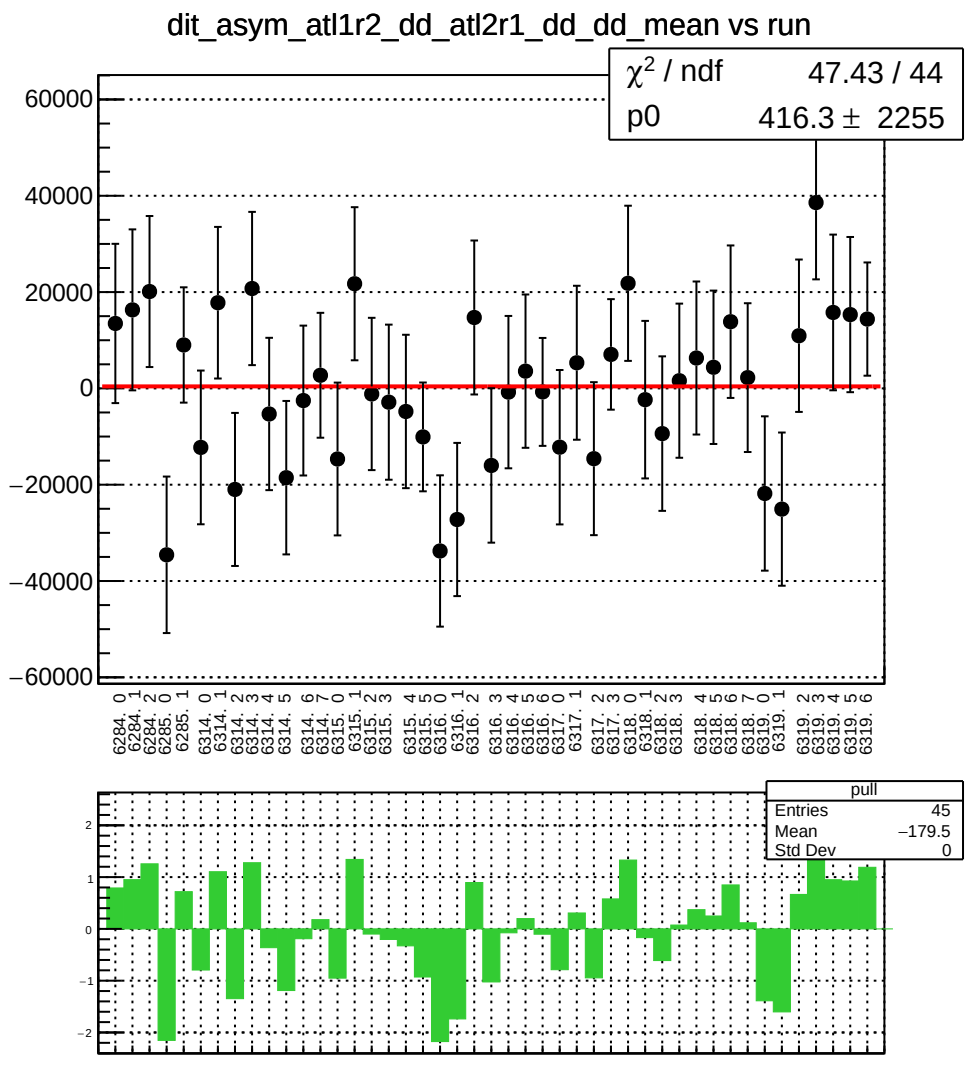
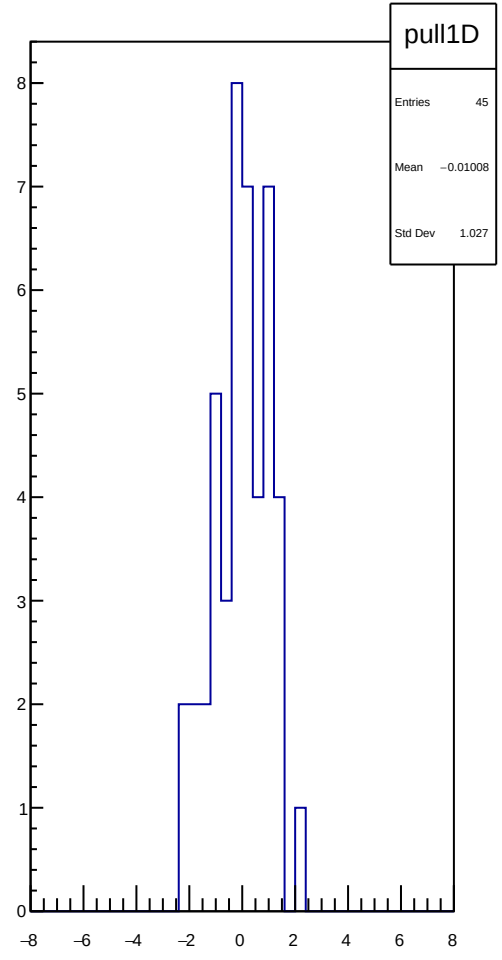
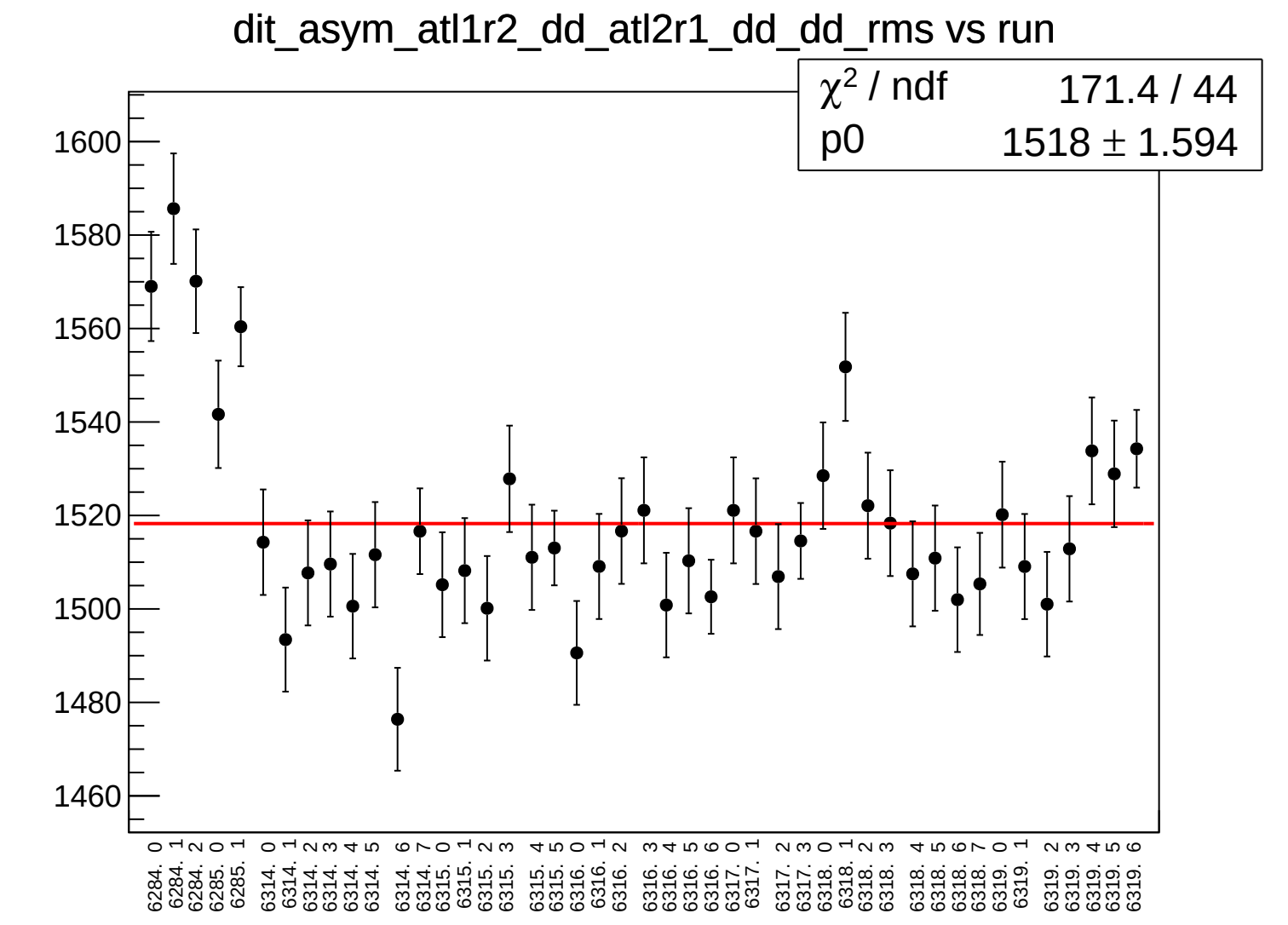
6319. 6


dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 47.43 / 44
p0 416.3 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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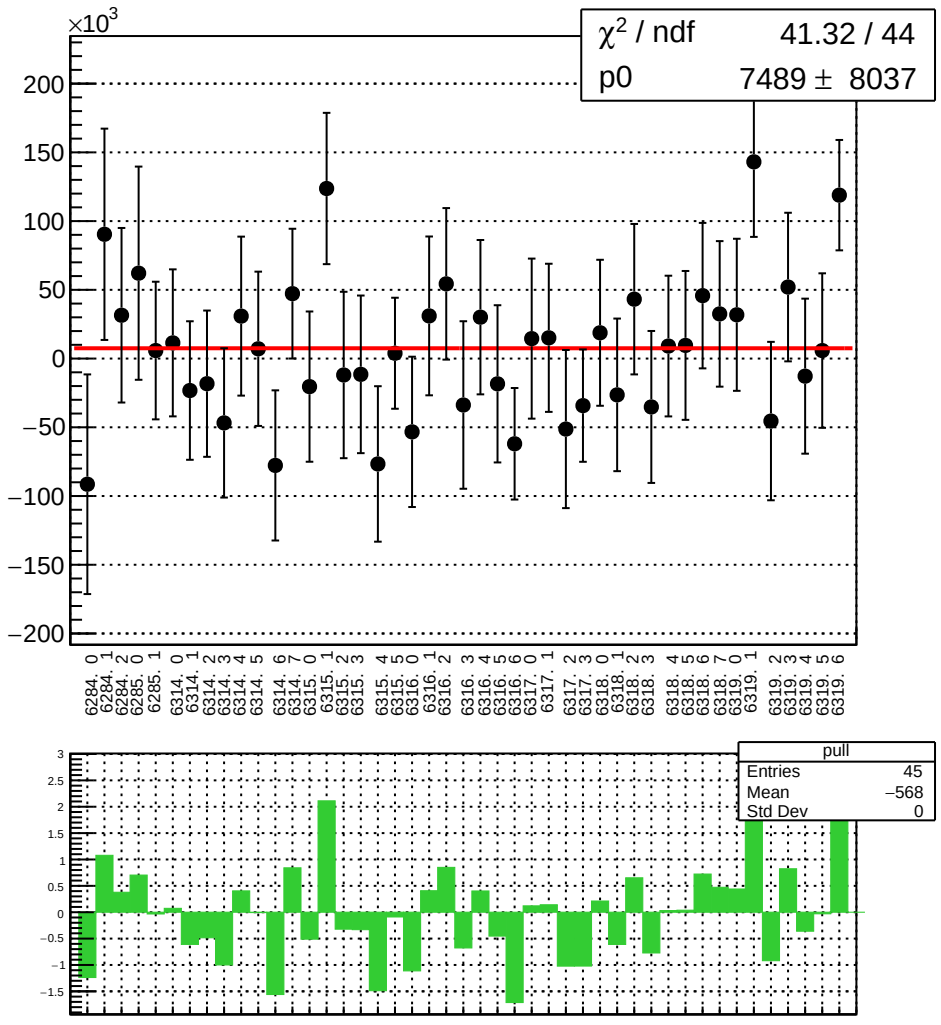
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 1
6316. 2
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6316. 6
6317. 0
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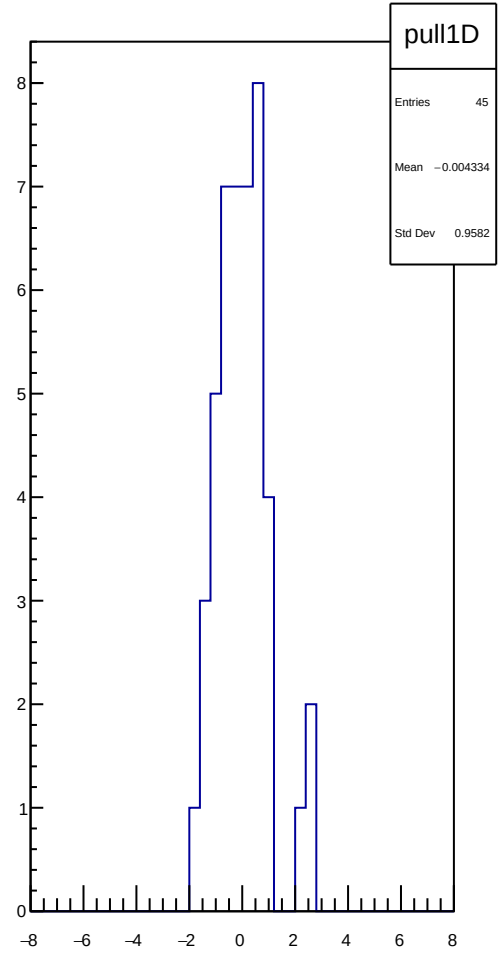
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
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5
4
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1
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−8
−6
−4
−2
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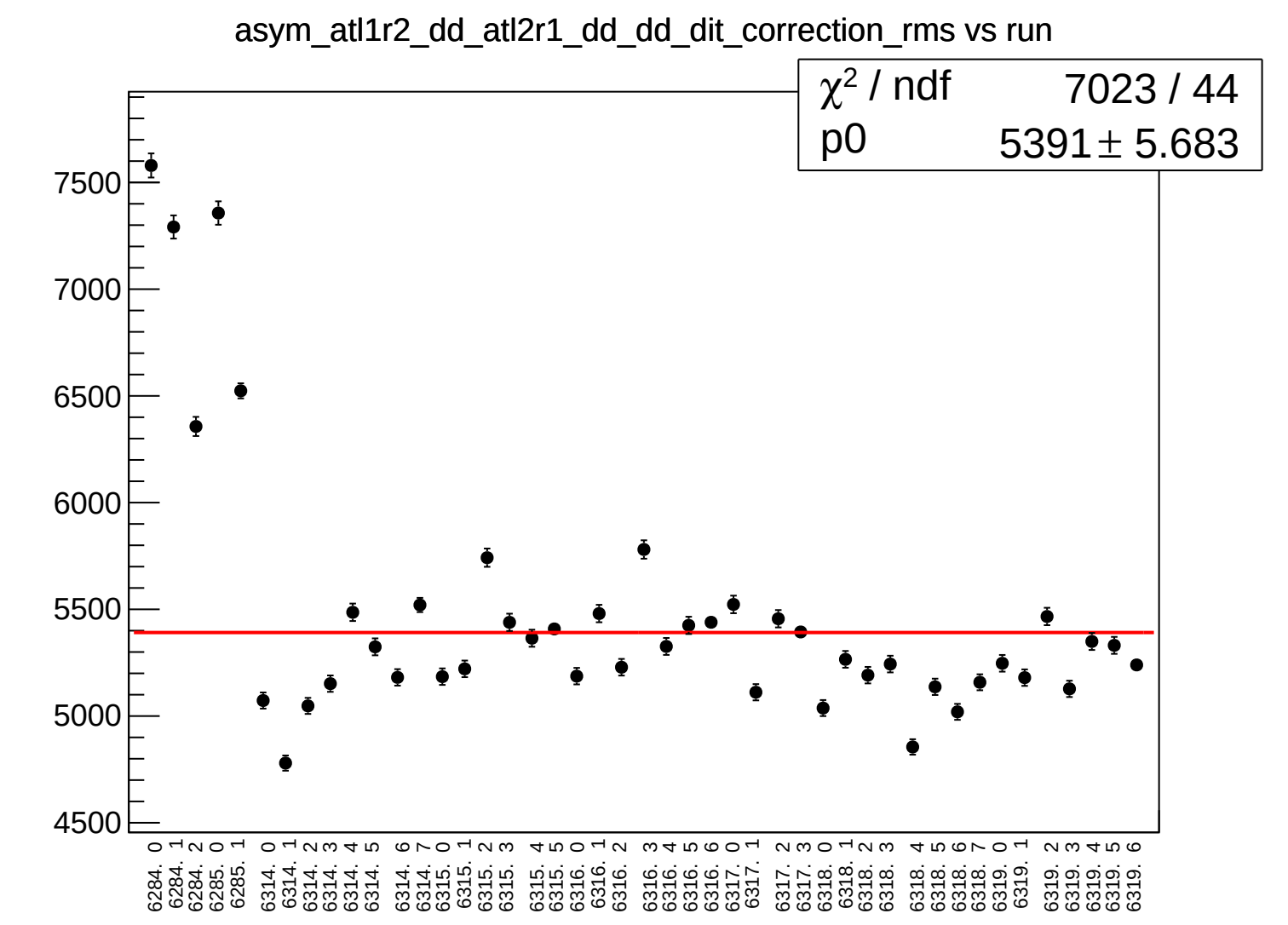
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
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6314. 3
6314. 4
6314. 5
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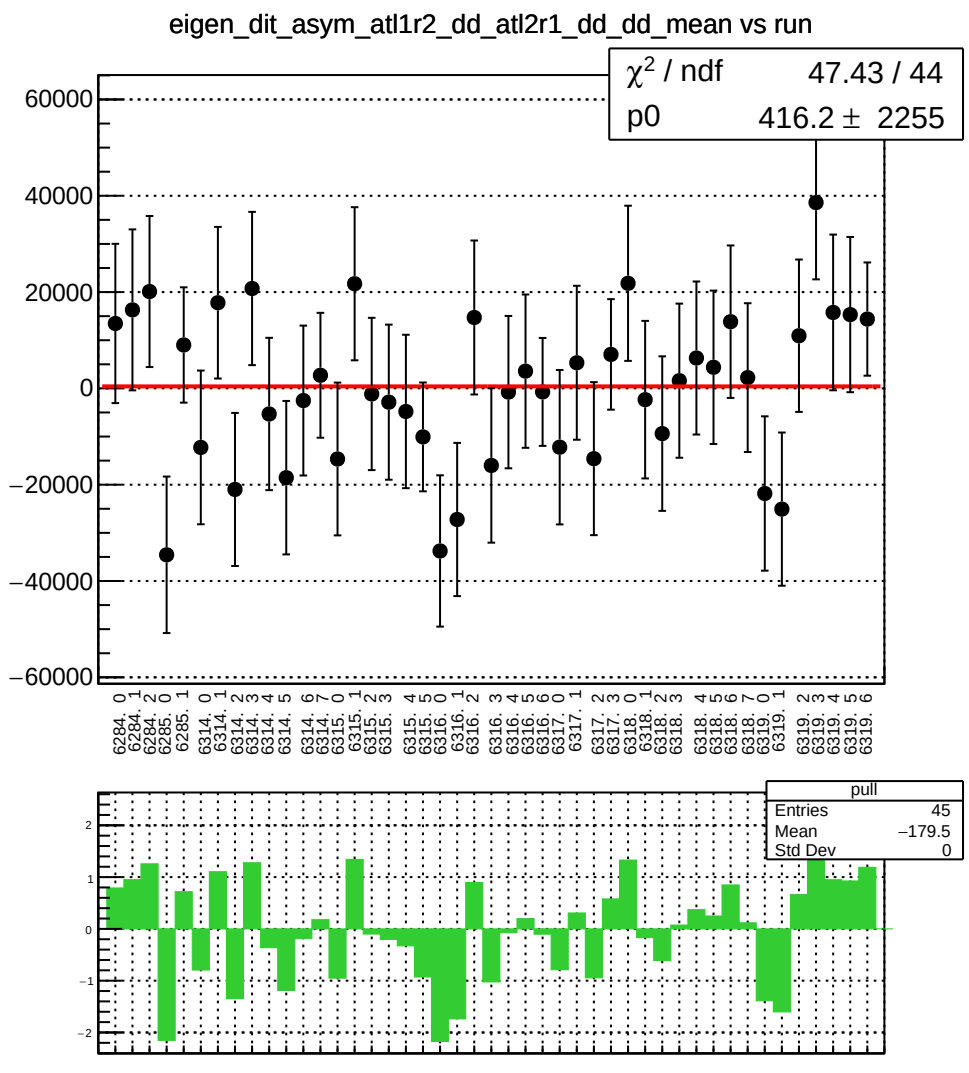
6319. 6


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 47.43 / 44
p0 416.2 ± 2255
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 0
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6316. 5
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6317. 1
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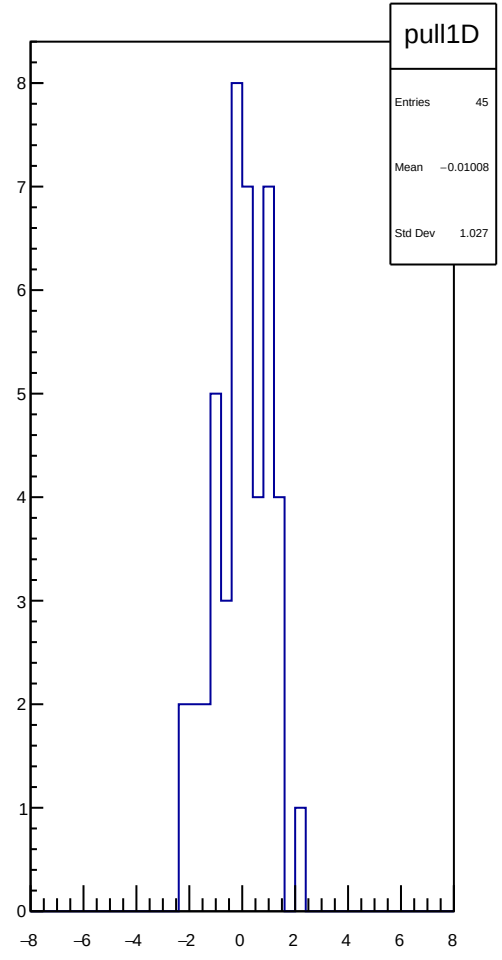
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01008
Std Dev 1.027
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−8
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−4
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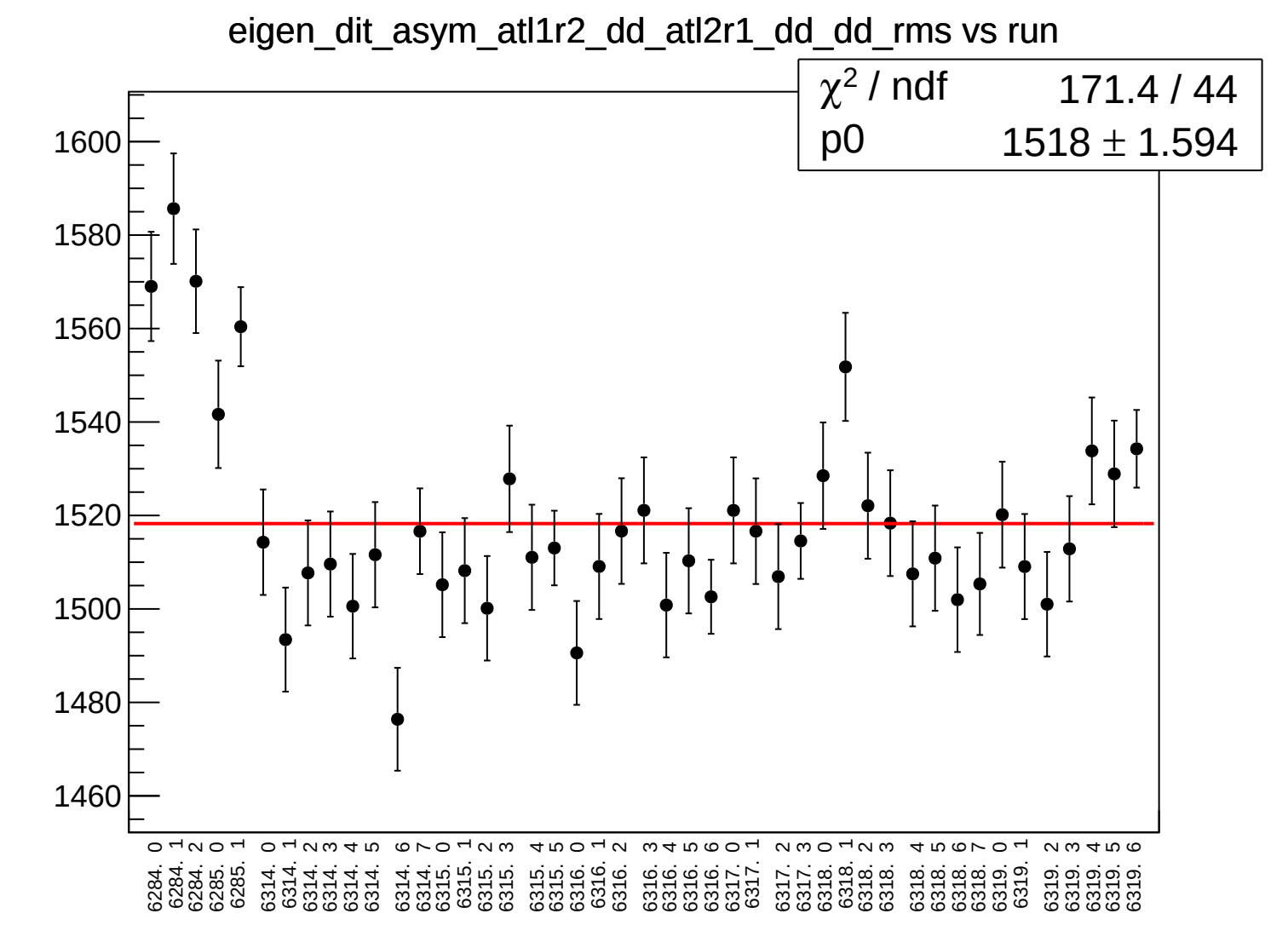
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 171.4 / 44
p0 1518 ± 1.594
1600
1580
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6316. 2
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6316. 6
6317. 0
6317. 1
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6318. 0
6318. 1
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6319. 2
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6319. 5
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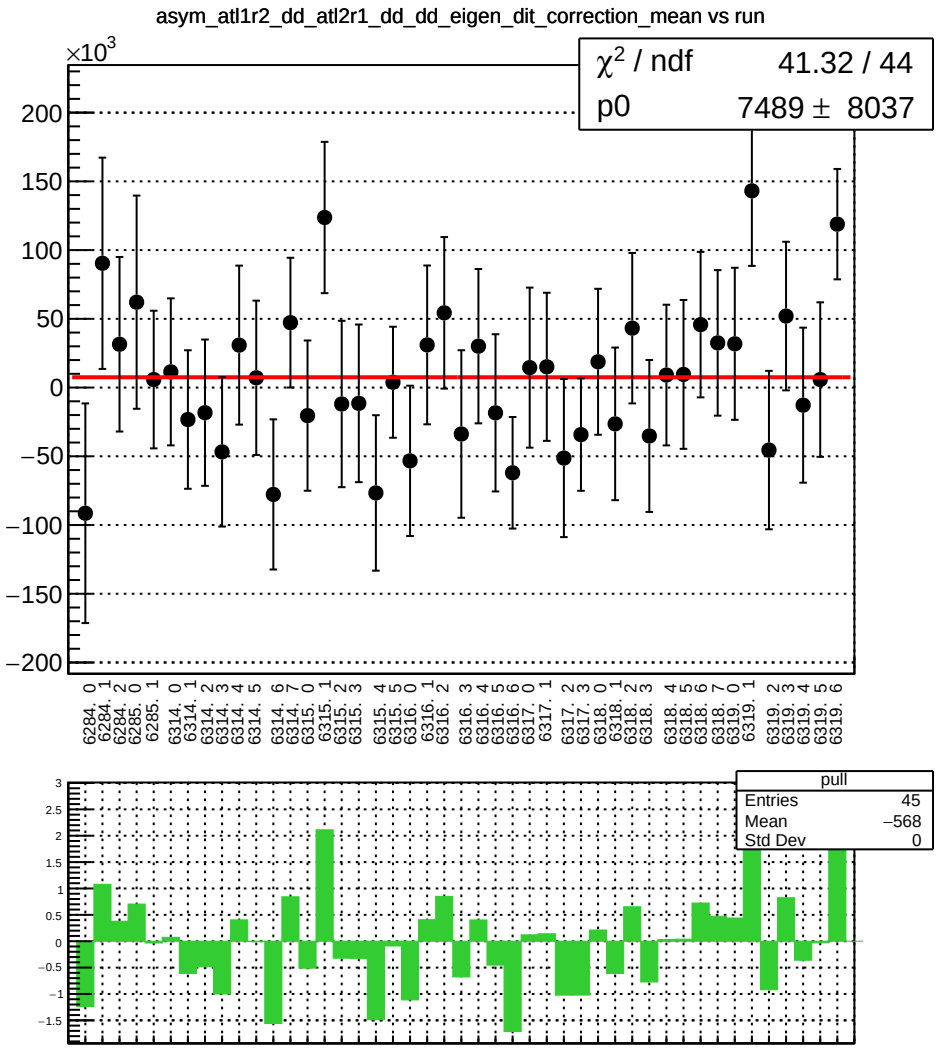
asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 7489 ± 8037
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
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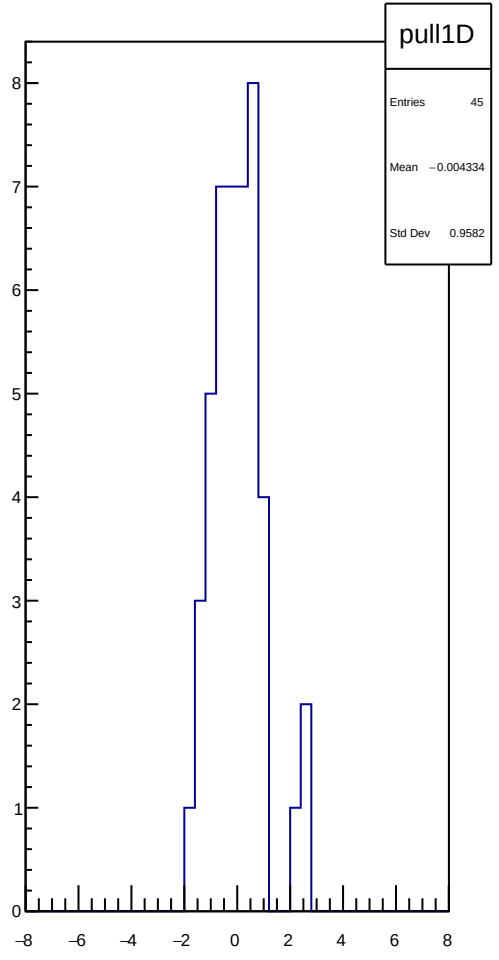
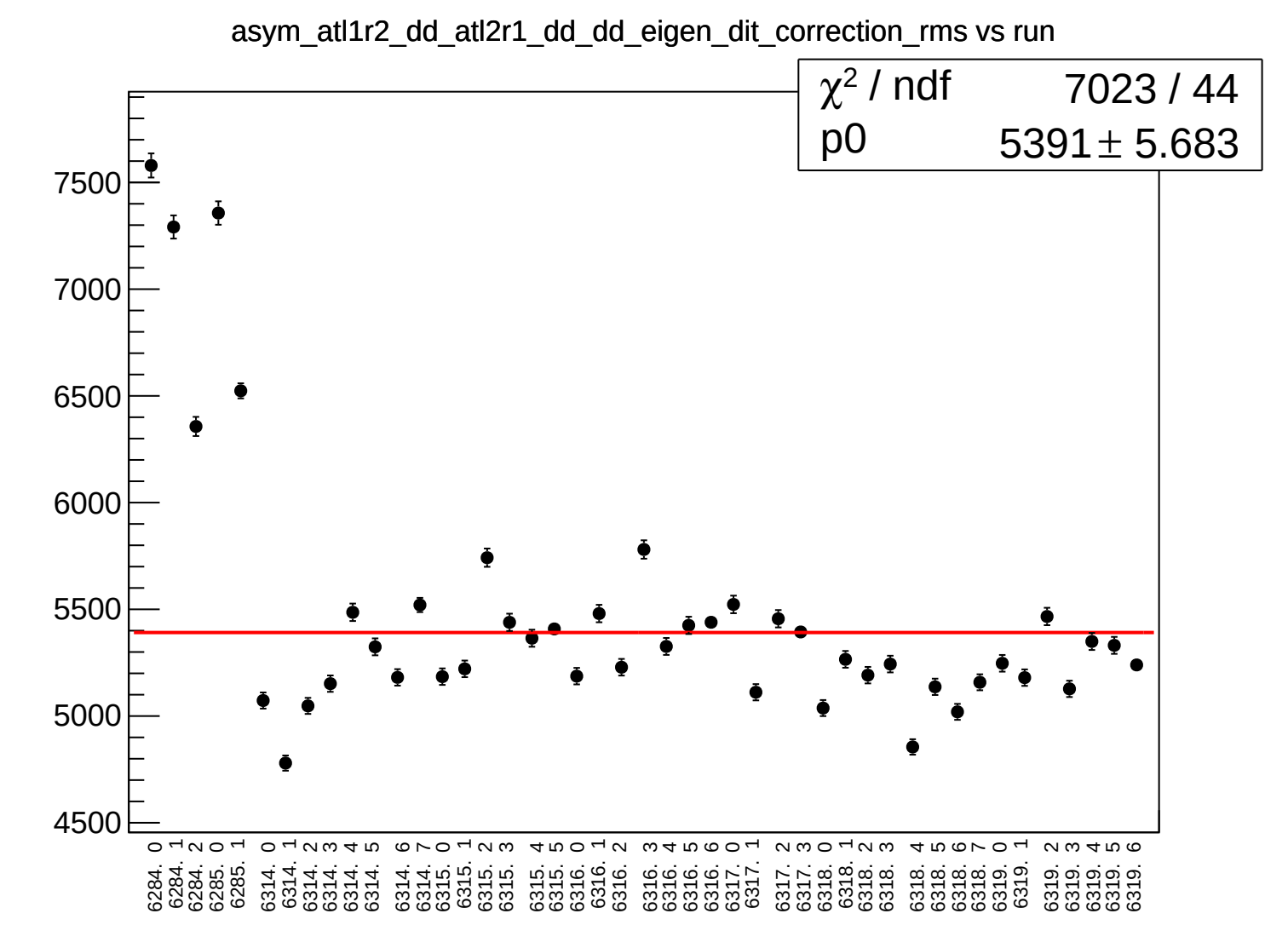
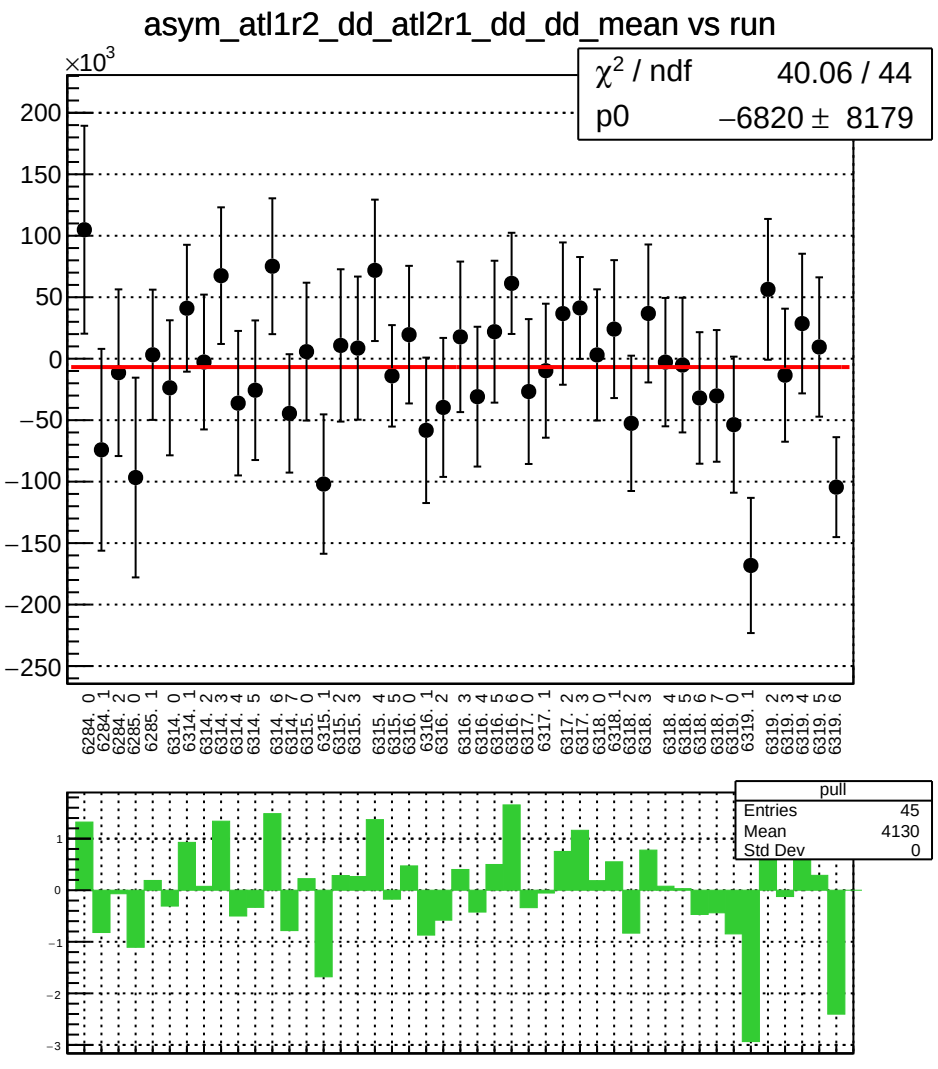
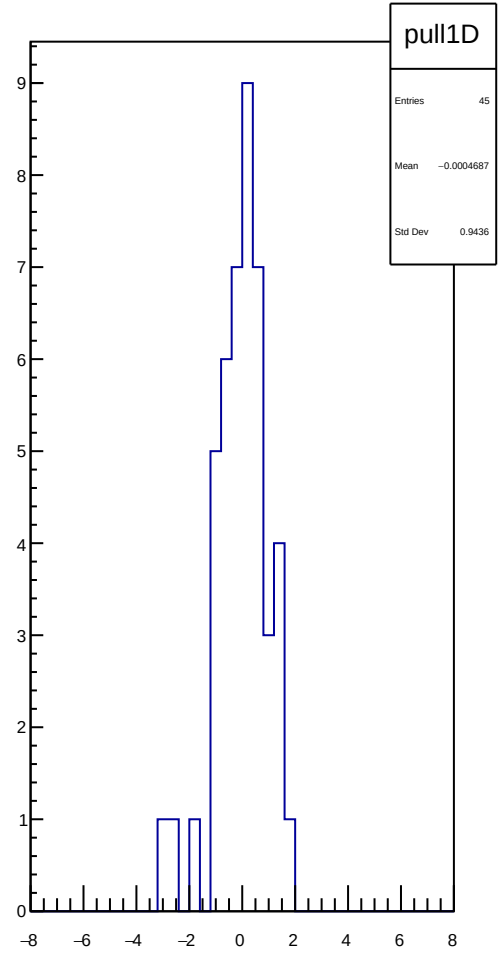
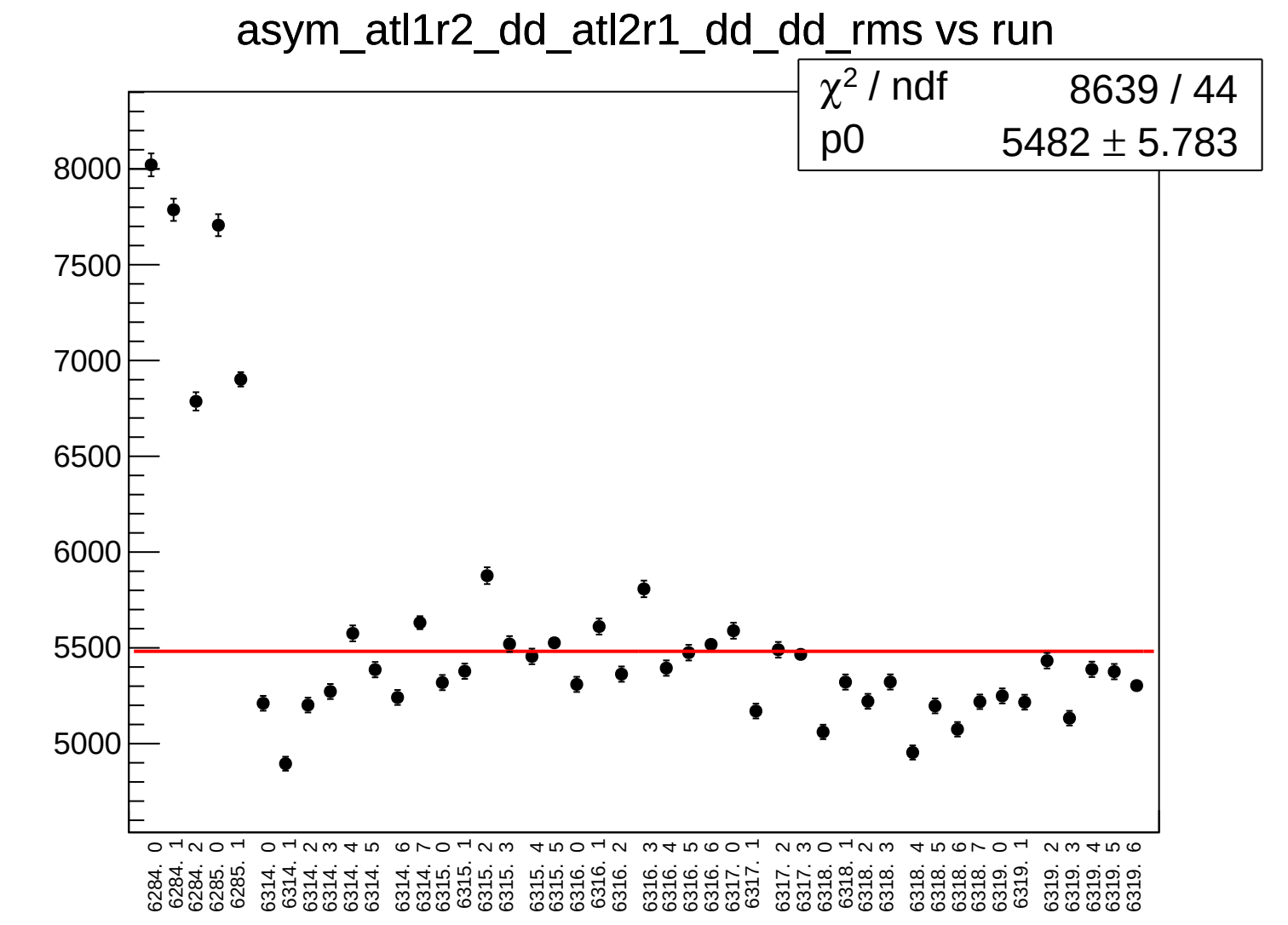
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −568
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

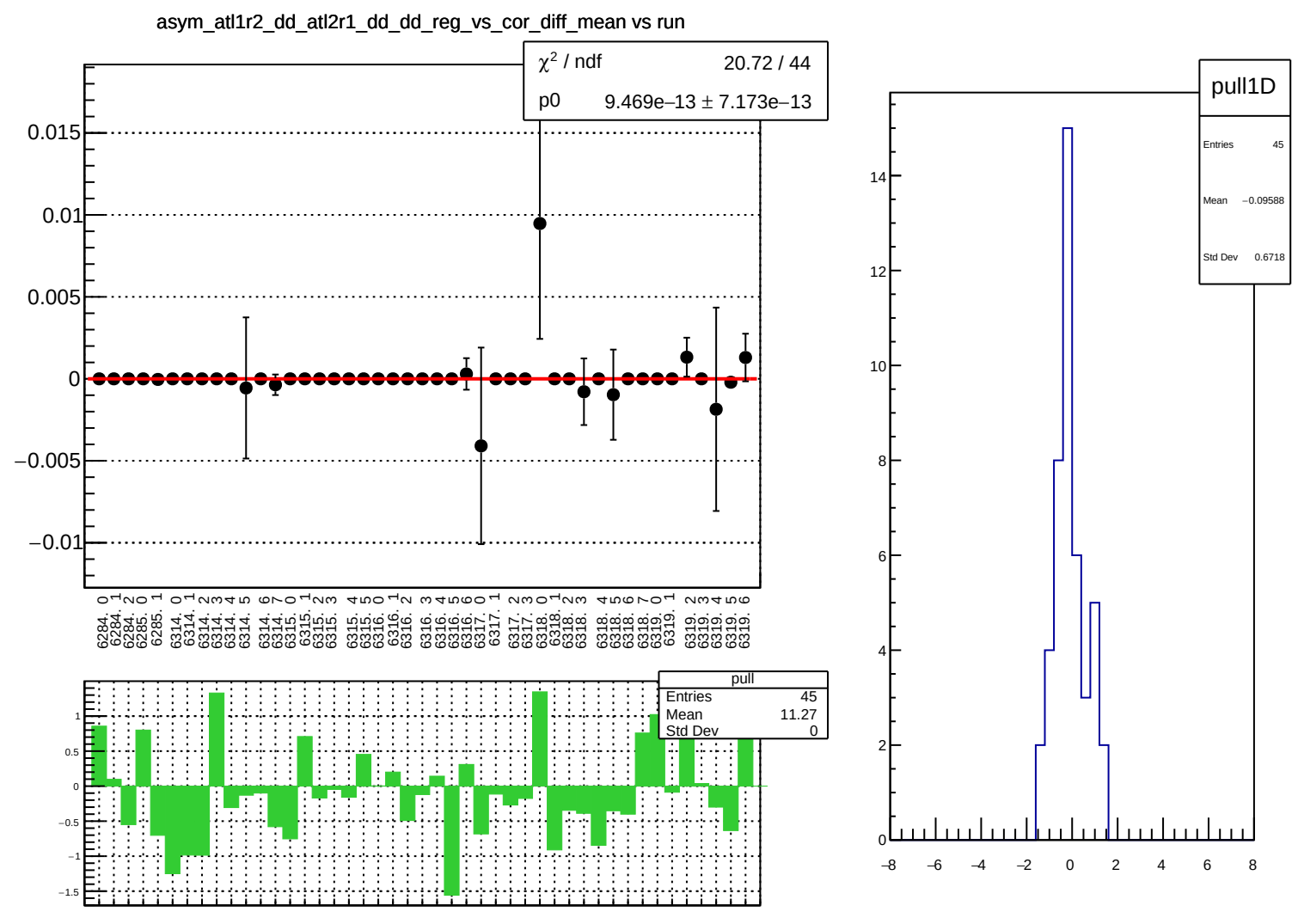

pull1D
Entries 45
Mean −0.004334
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

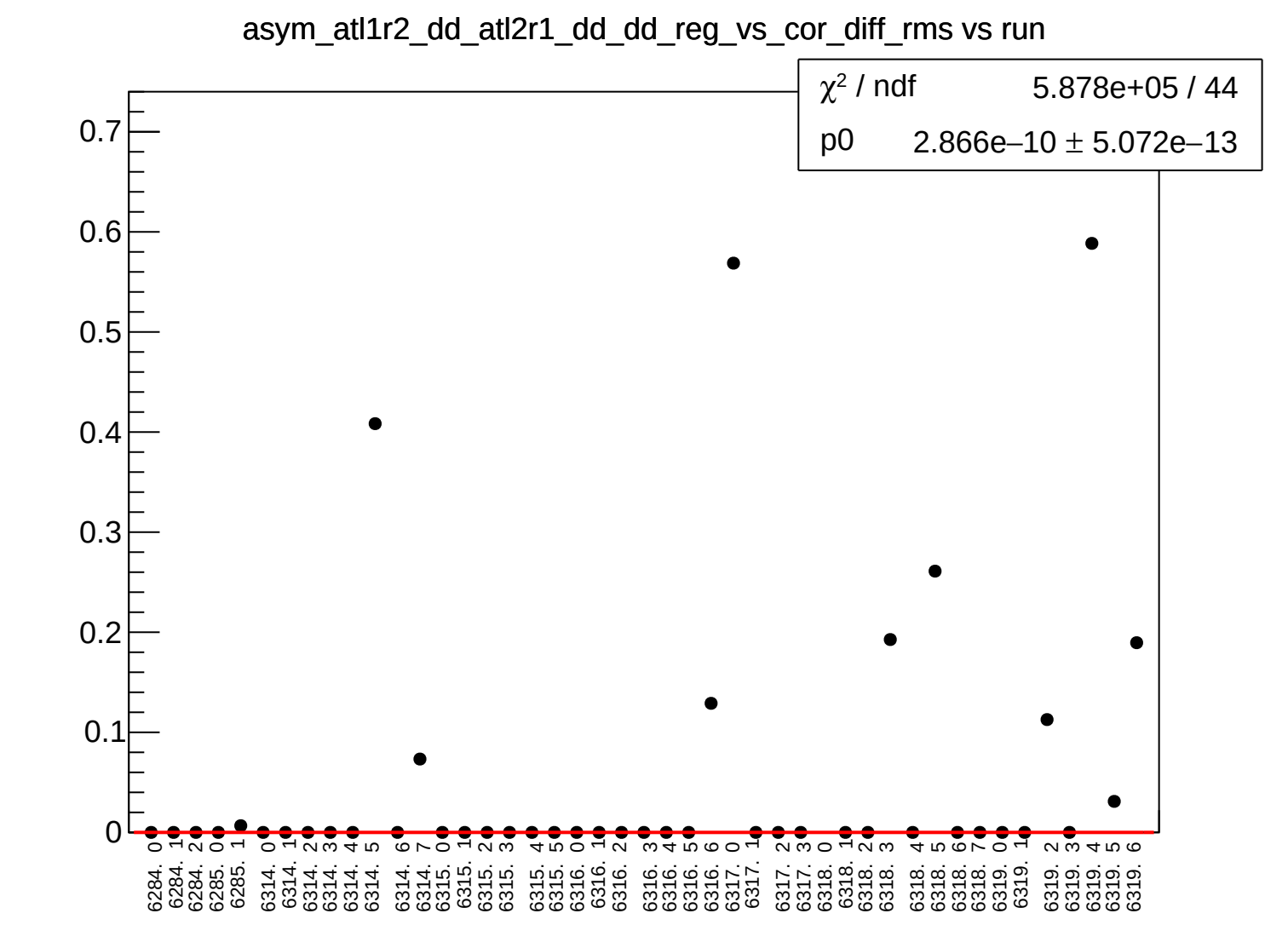

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7023 / 44
p0 5391 ± 5.683
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

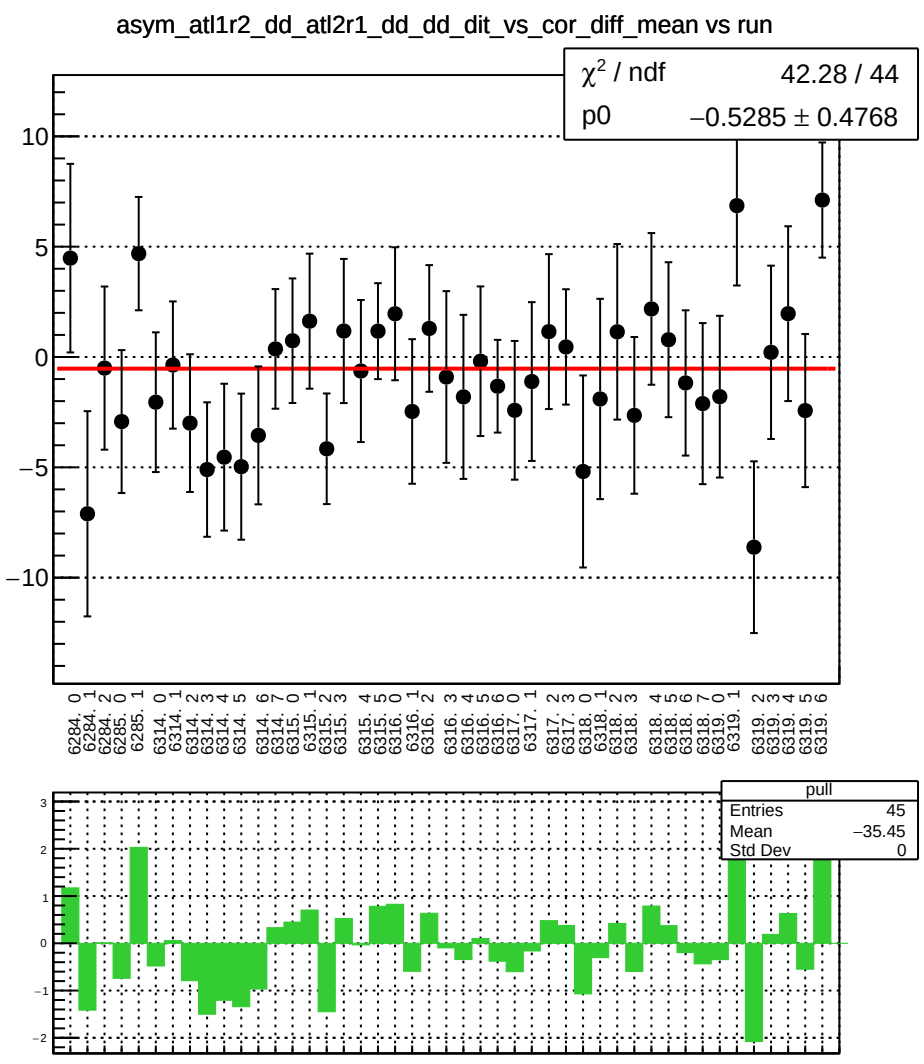

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 40.06 / 44
p0 −6820 ± 8179
200
150
100
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4130
Std Dev 0
1
0
−1
−2
−3

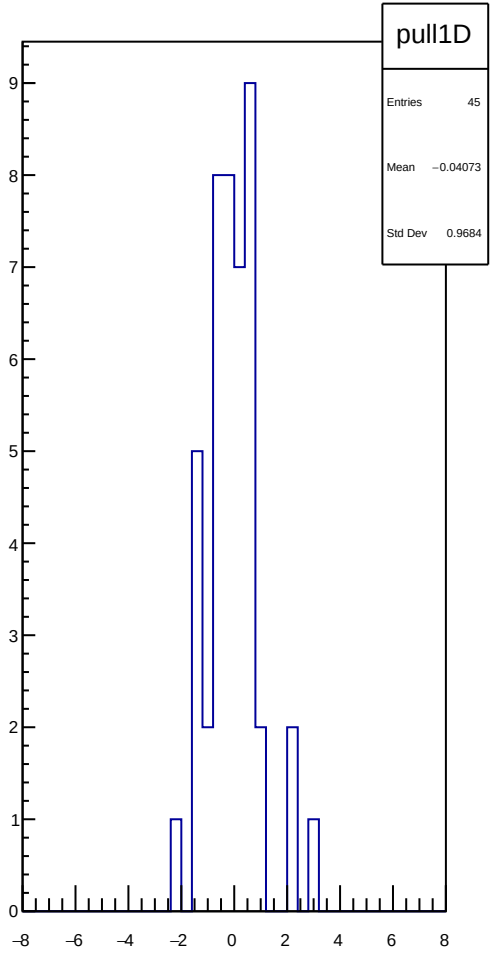

pull1D
Entries 45
Mean −0.0004687
Std Dev 0.9436
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

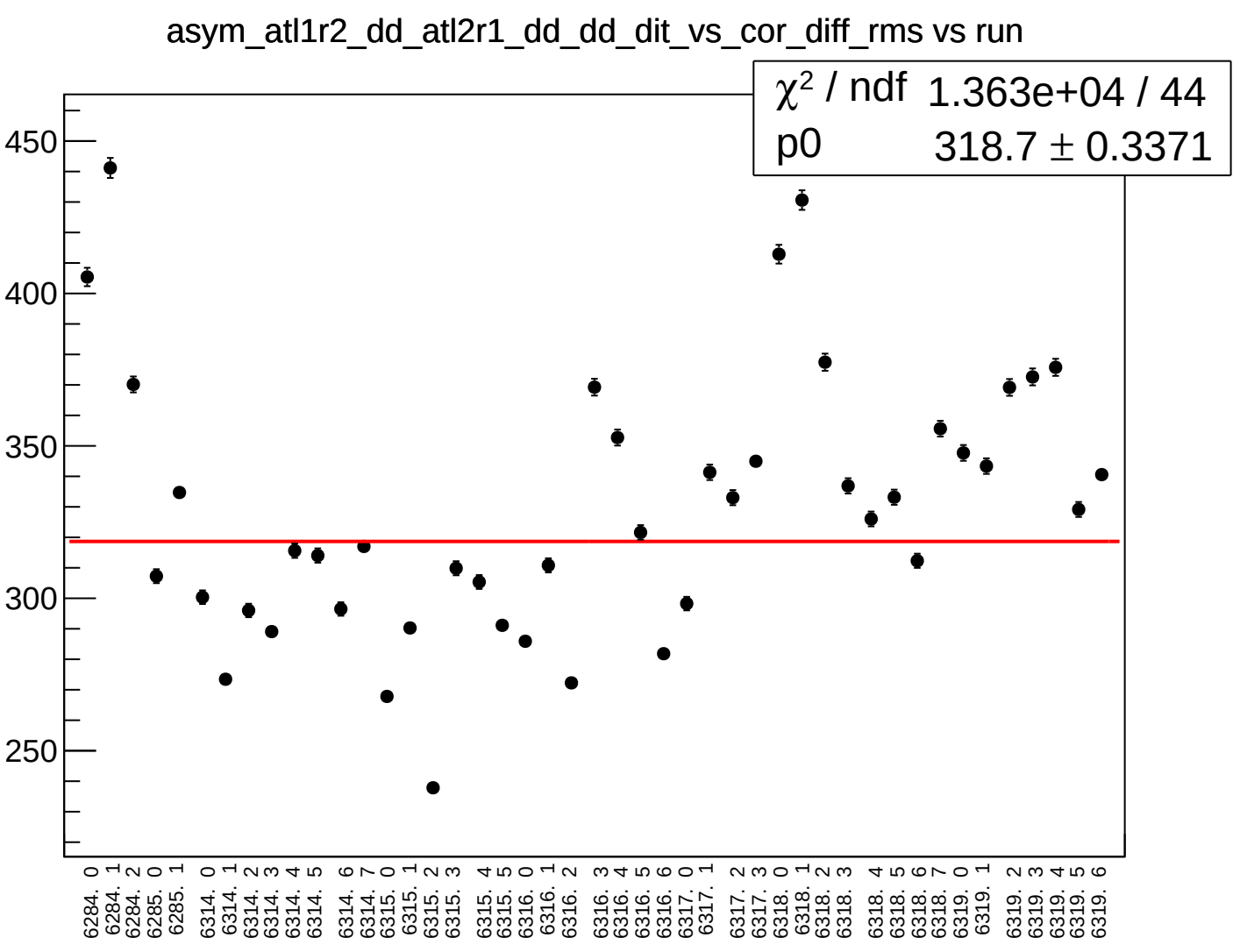

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 8639 / 44
p0 5482 ± 5.783
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.72 / 44
p0 9.469e−13 ± 7.173e−13
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.09588
Std Dev 0.6718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.878e+05 / 44
p0 2.866e−10 ± 5.072e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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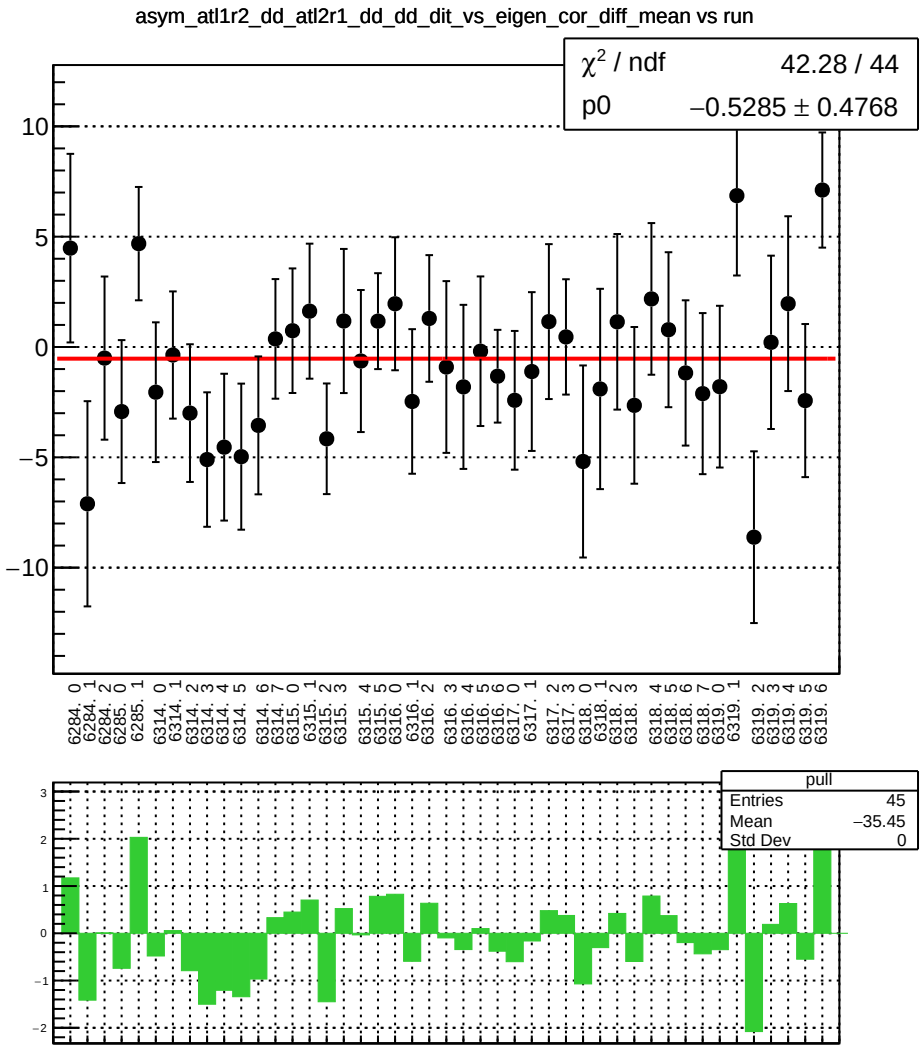
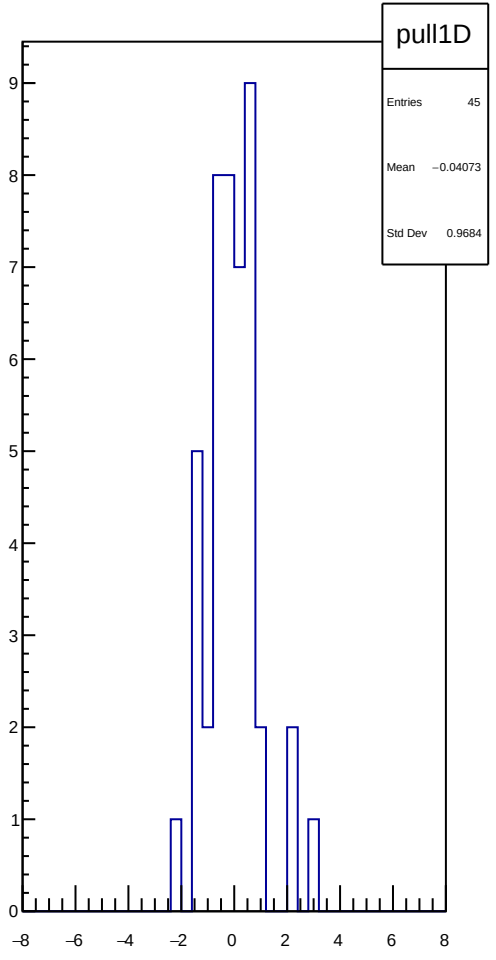
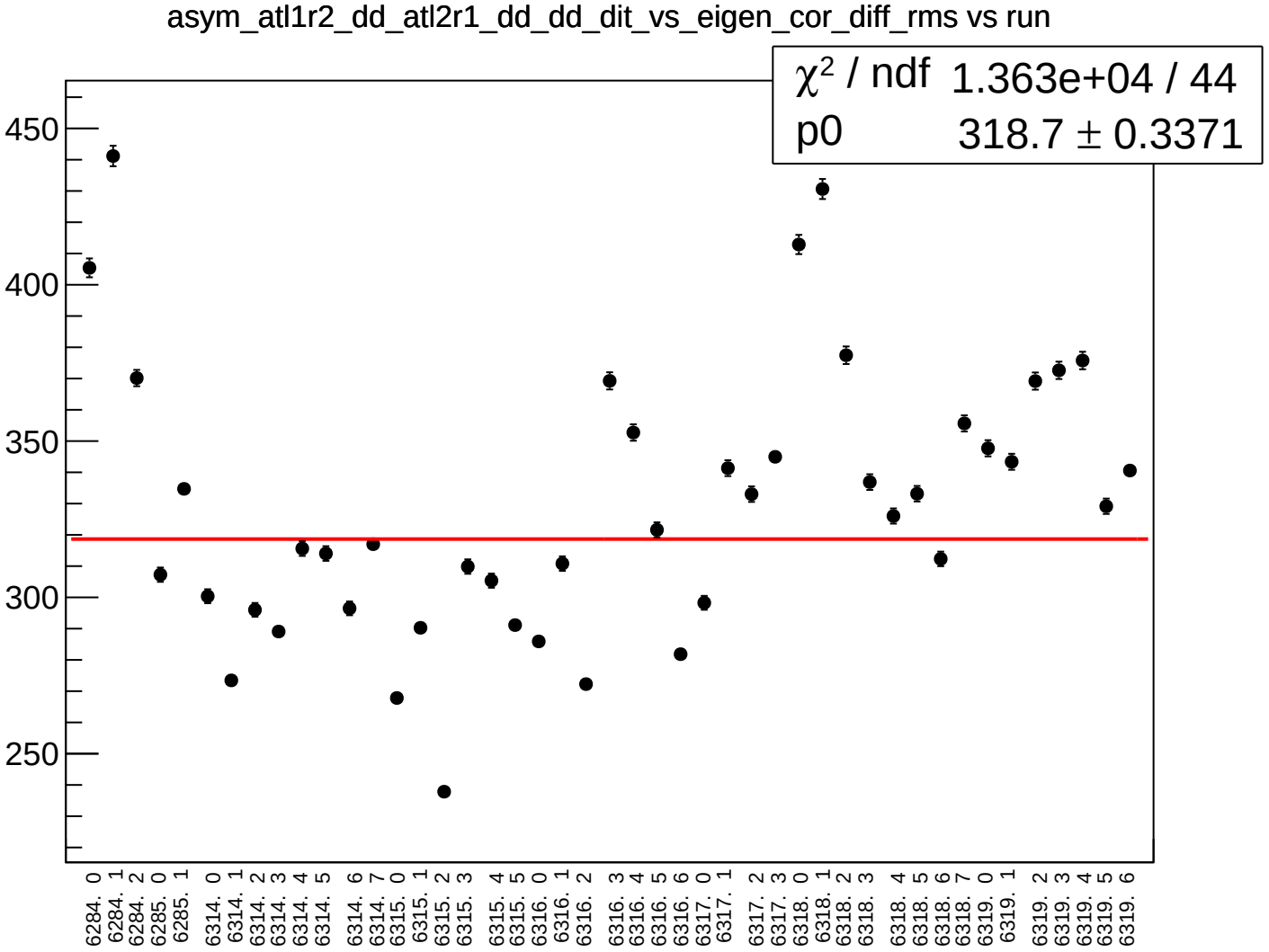
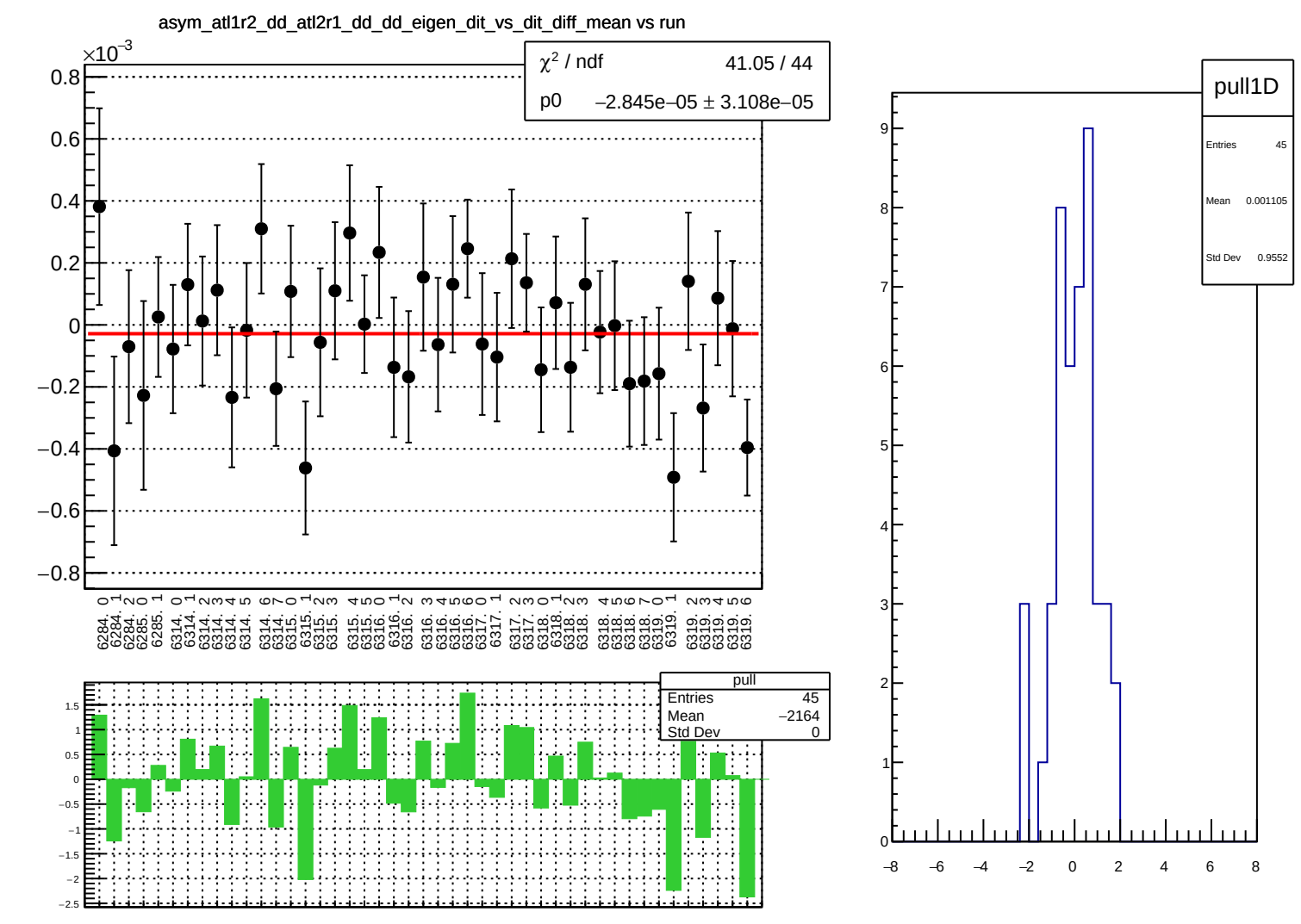
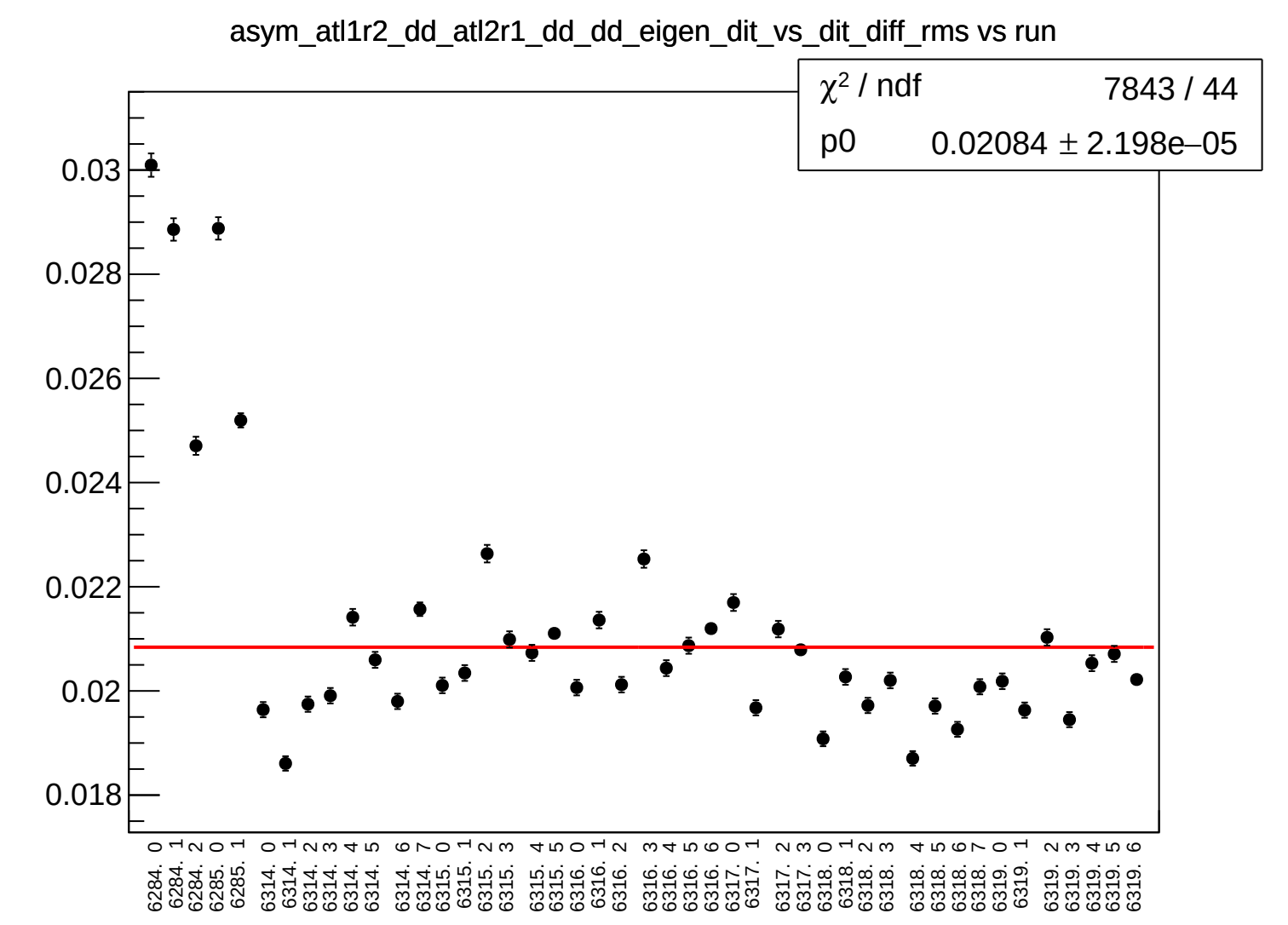
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5285 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 41.05 / 44
p0 −2.845e−05 ± 3.108e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2164
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.001105
Std Dev 0.9552
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7843 / 44
p0 0.02084 ± 2.198e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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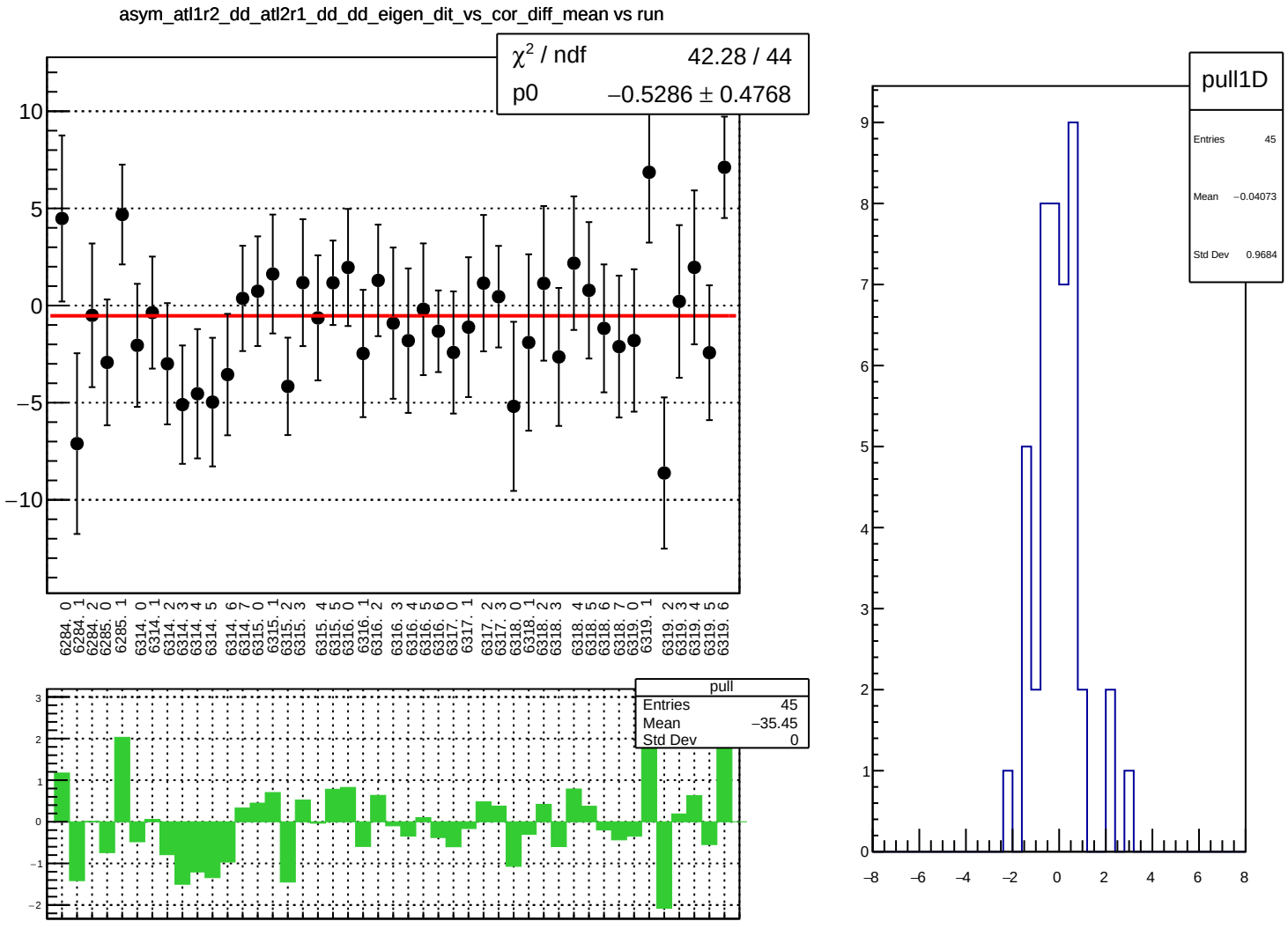
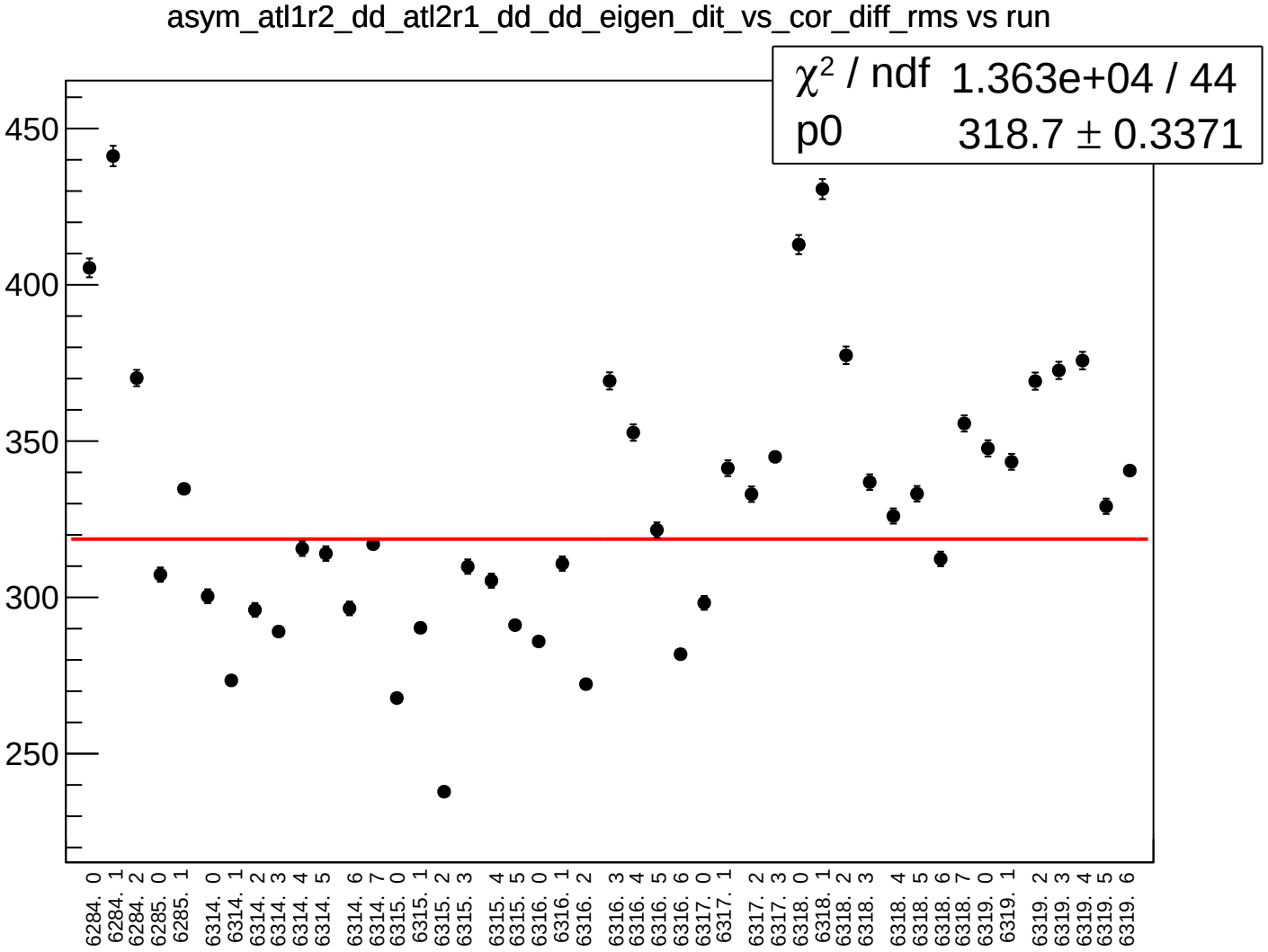
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
6319. 0
6319. 1
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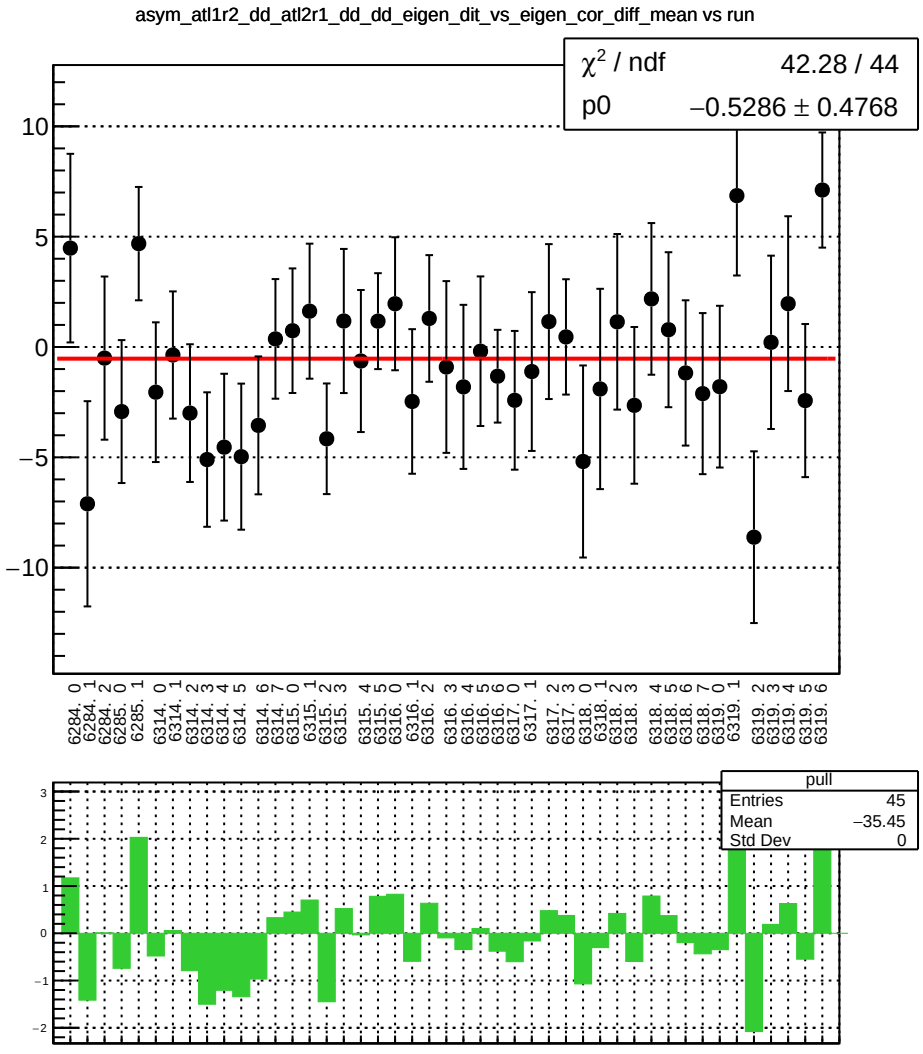
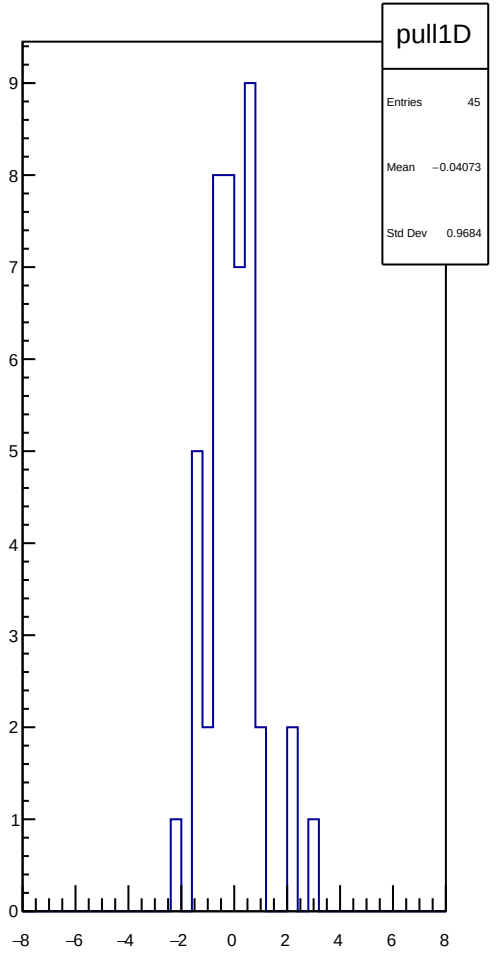
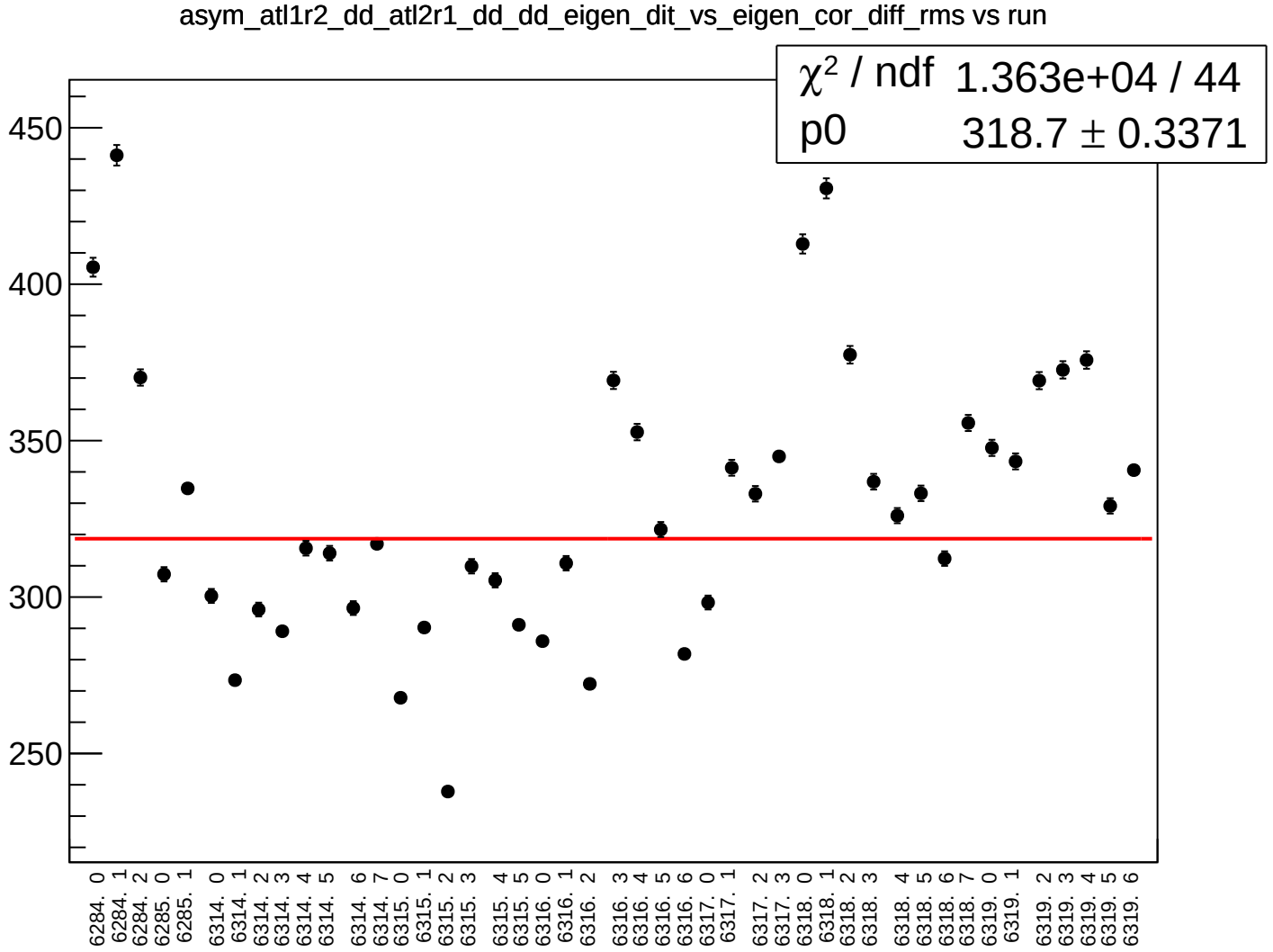
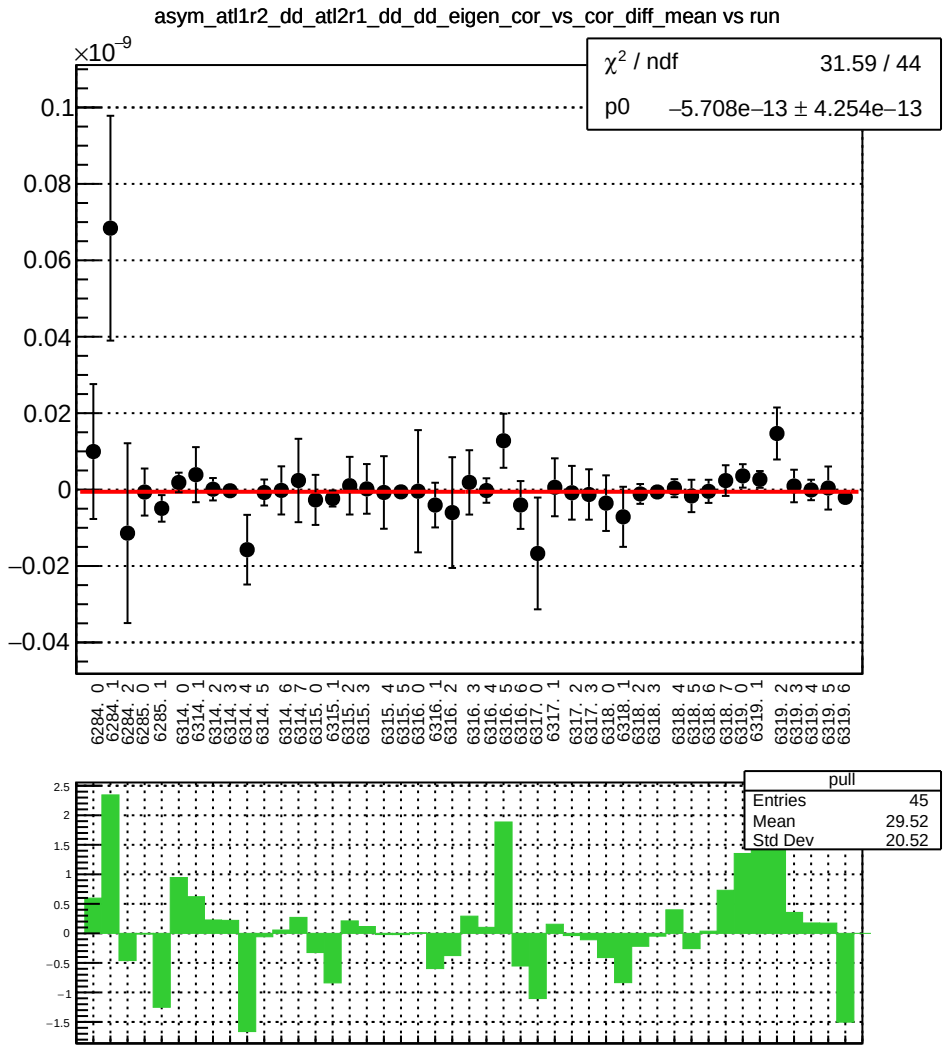
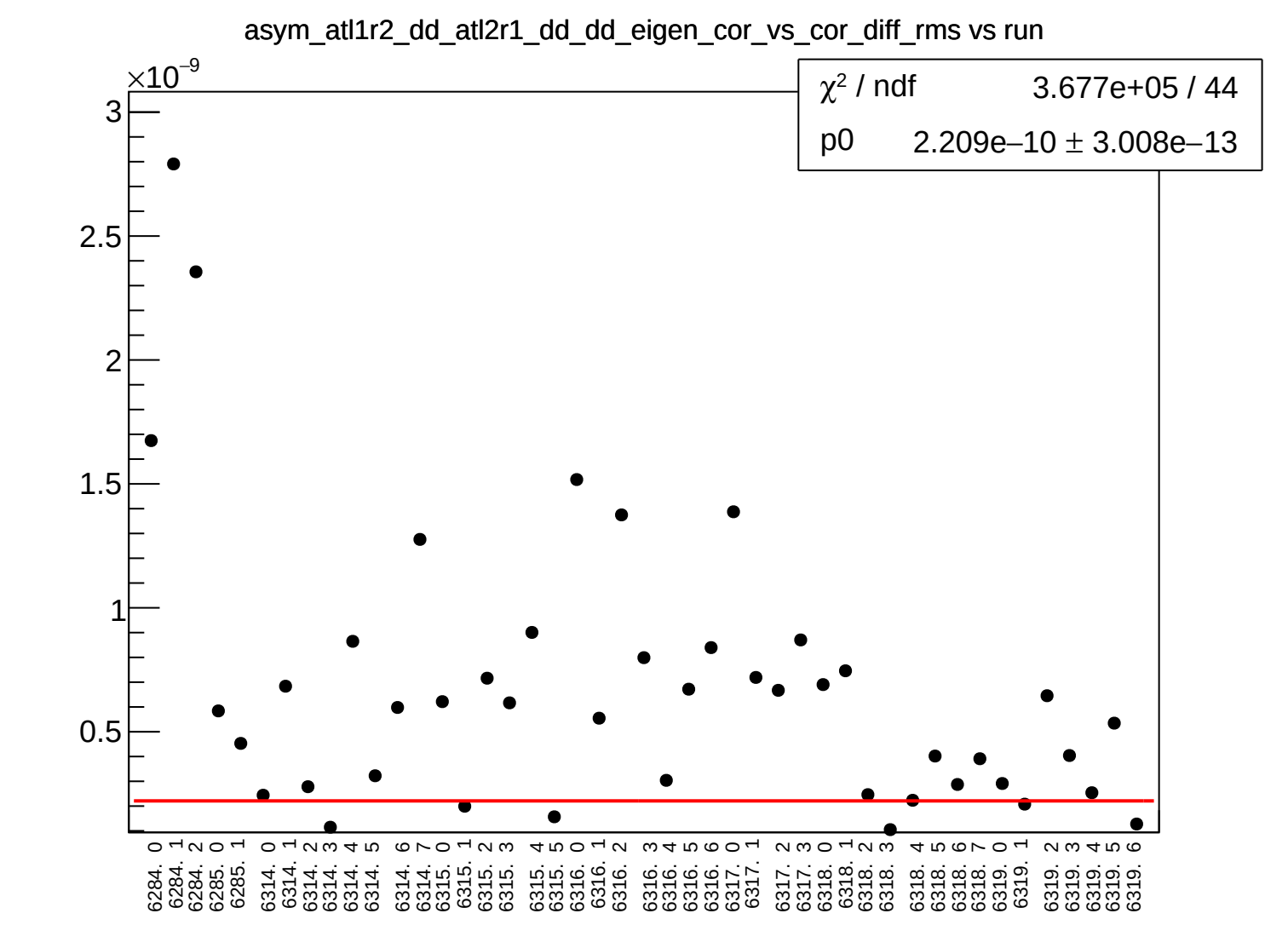
6319. 4
6319. 5
6319. 6

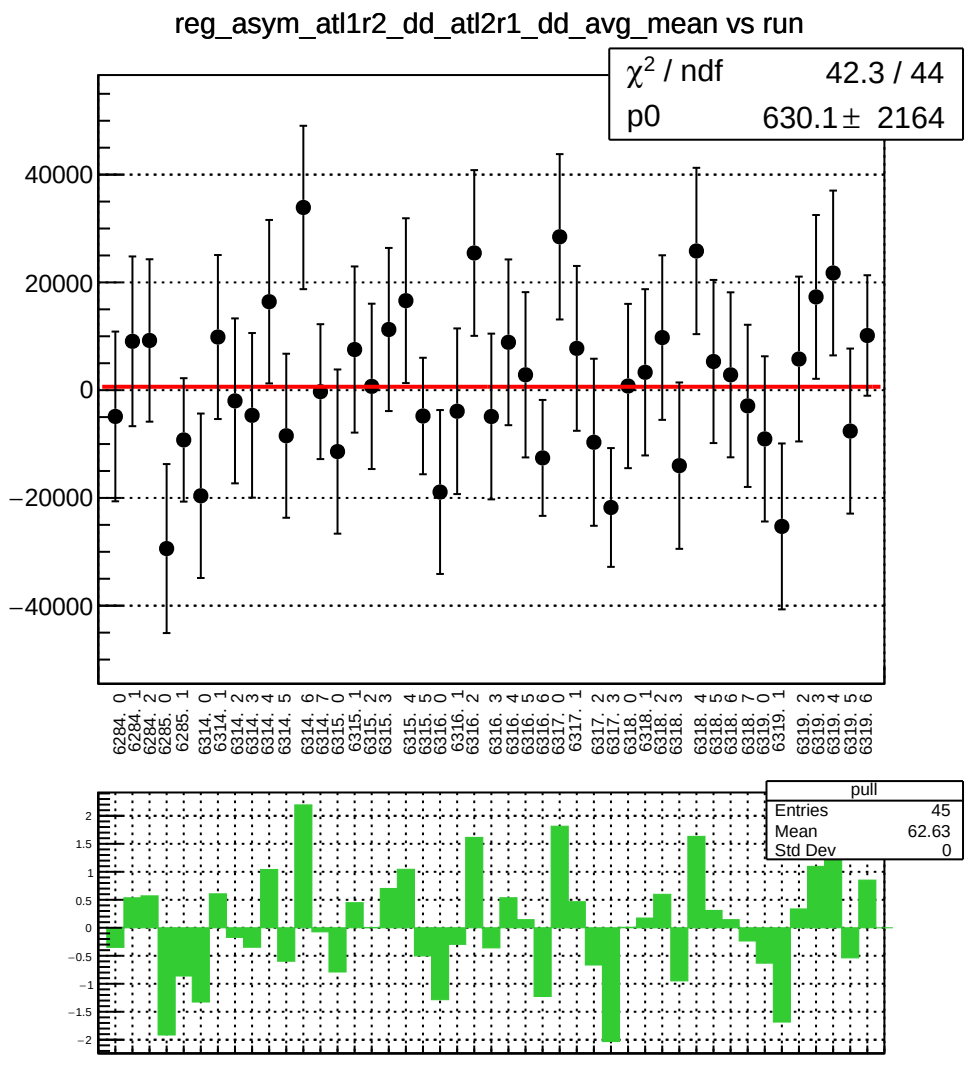

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.28 / 44
p0 −0.5286 ± 0.4768
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.45
Std Dev 0
3
2
1
0
−1
−2

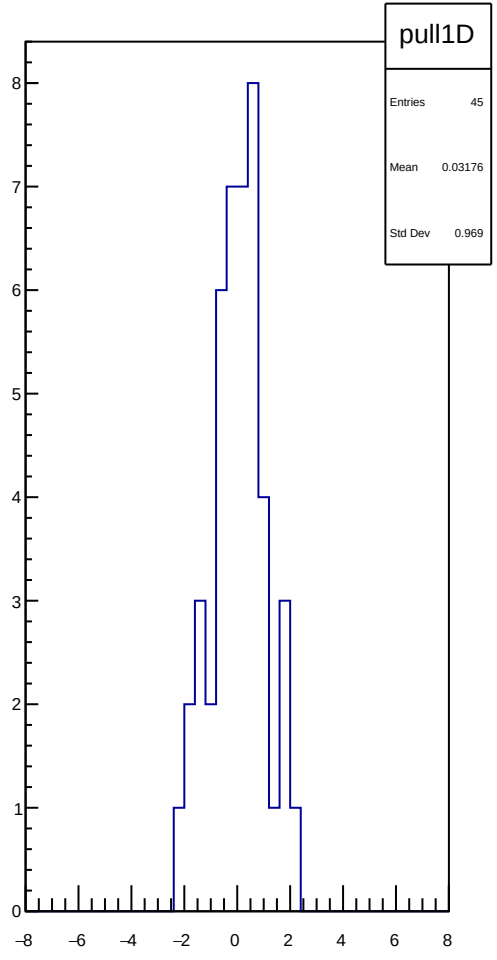

pull1D
Entries 45
Mean −0.04073
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

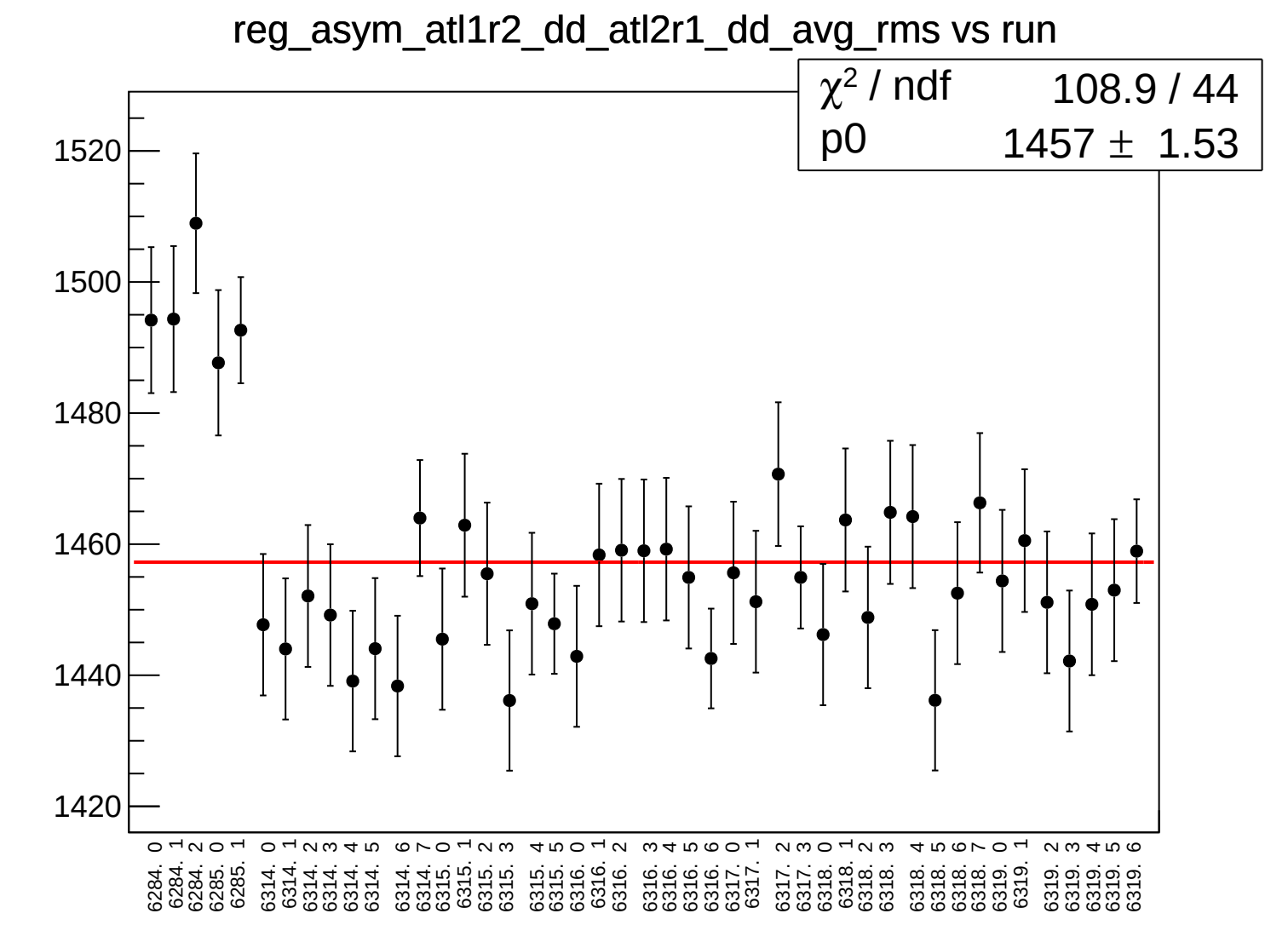

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+04 / 44
p0 318.7 ± 0.3371
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 31.59 / 44
p0 −5.708e−13 ± 4.254e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.52
Std Dev 20.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.09562
Std Dev 0.8323
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

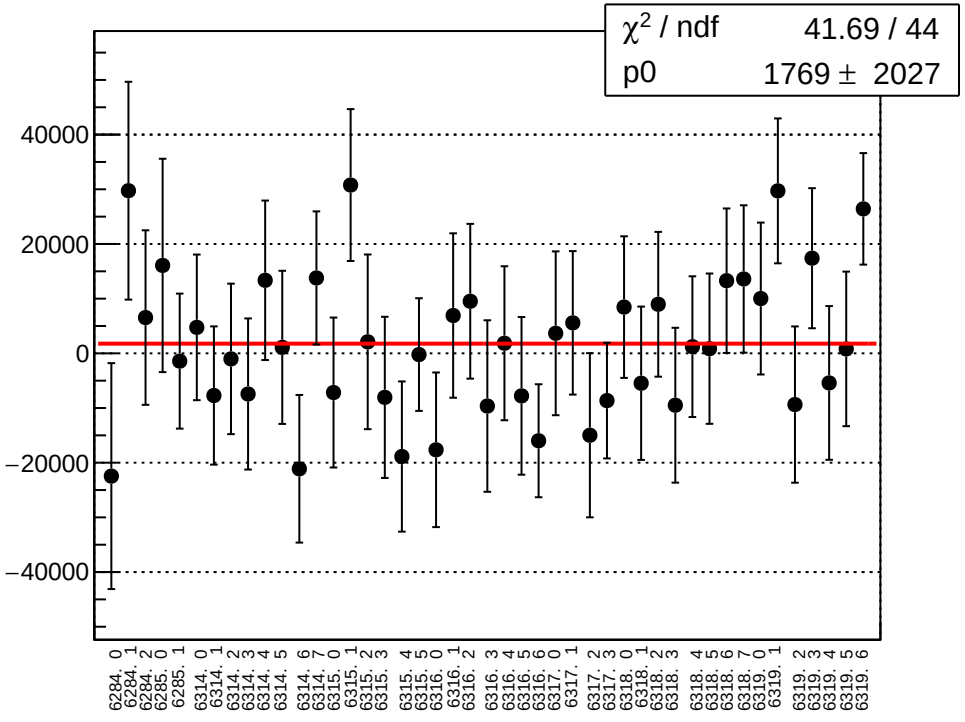

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.677e+05 / 44
p0 2.209e−10 ± 3.008e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

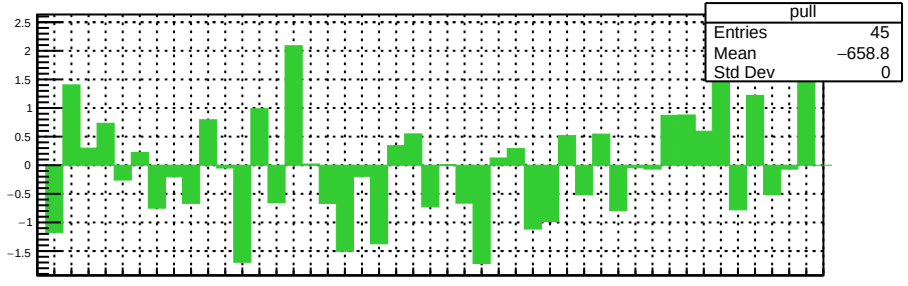

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 42.3 / 44
p0 630.1 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

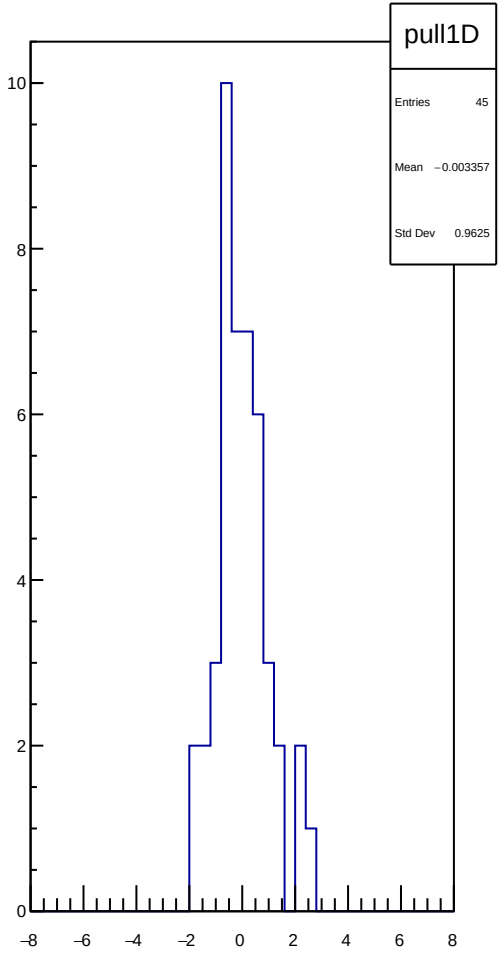

pull1D
Entries 45
Mean 0.03176
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

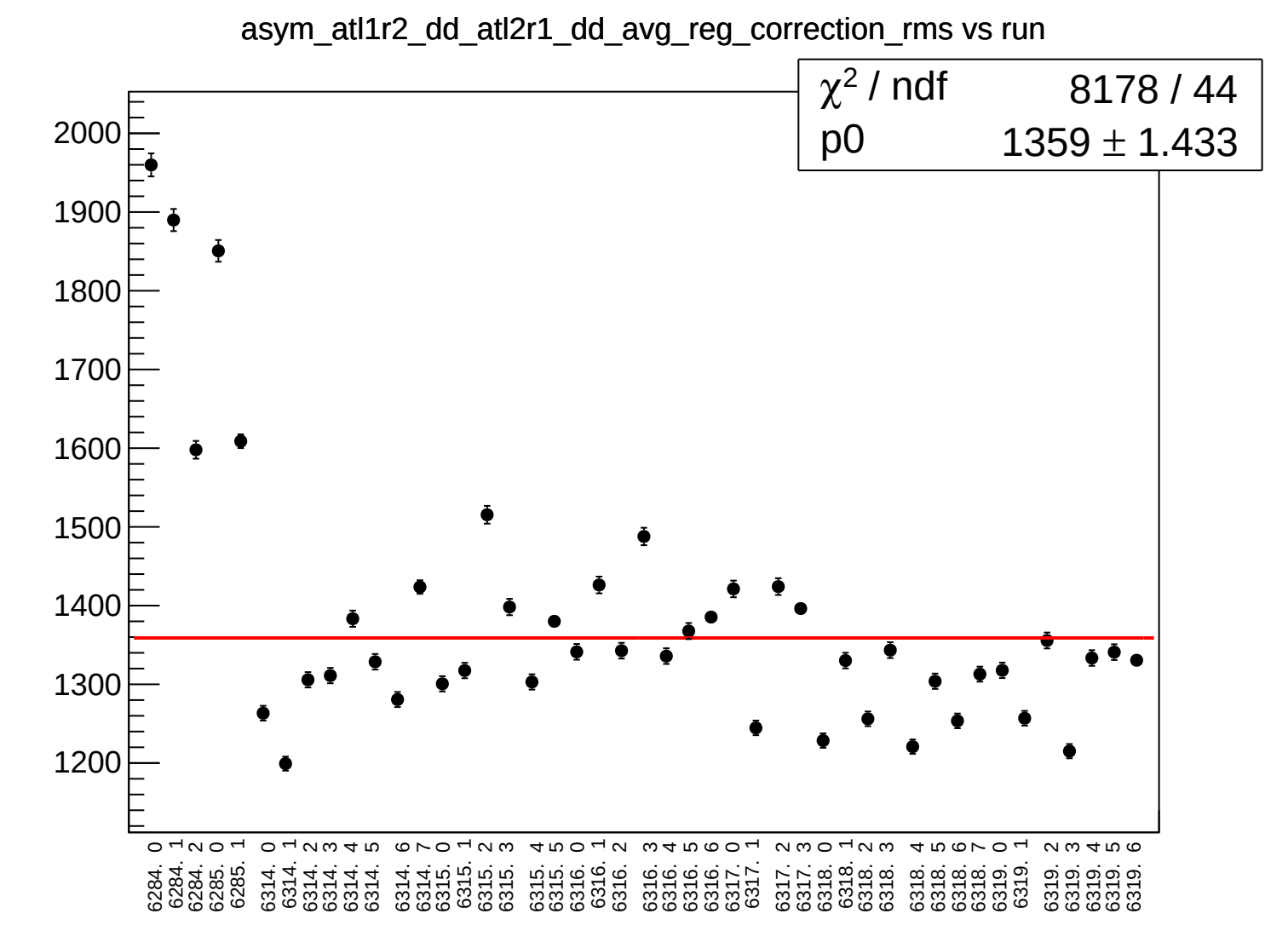

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

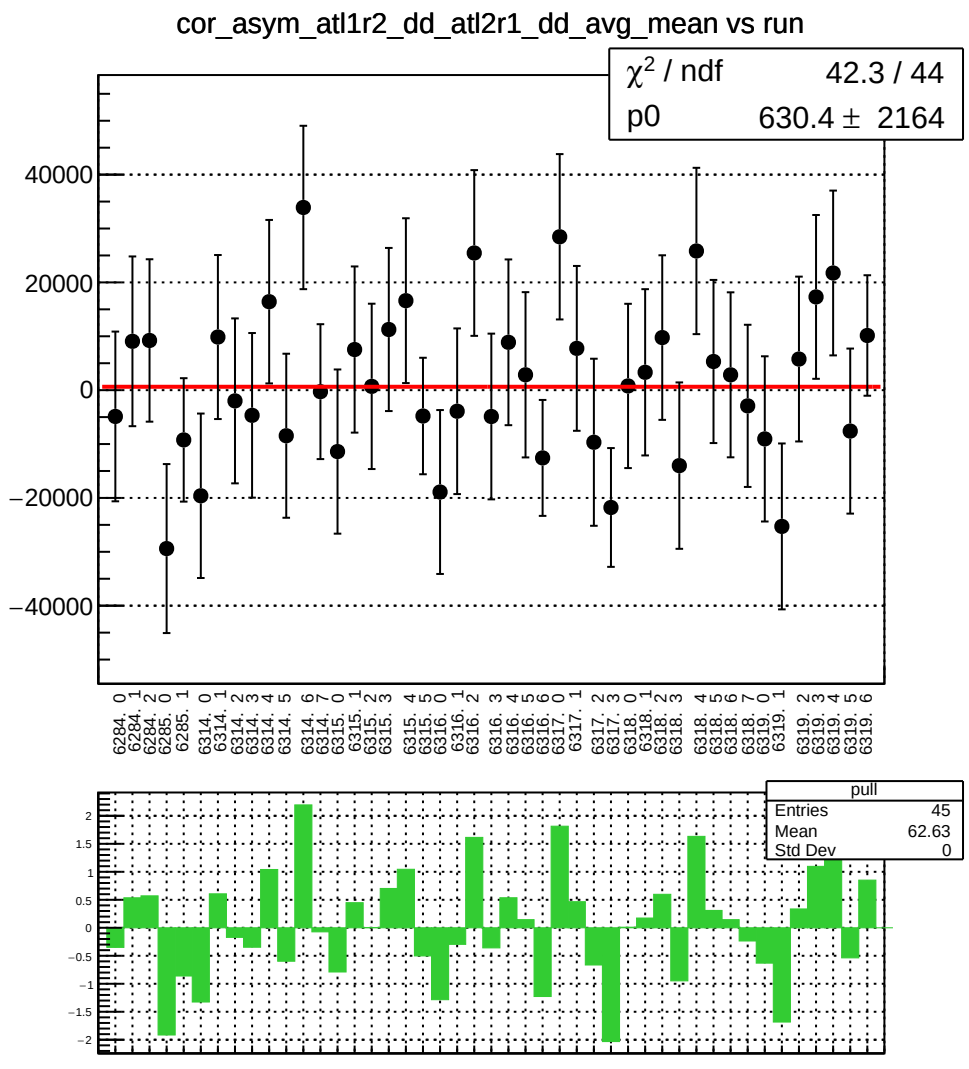
asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run

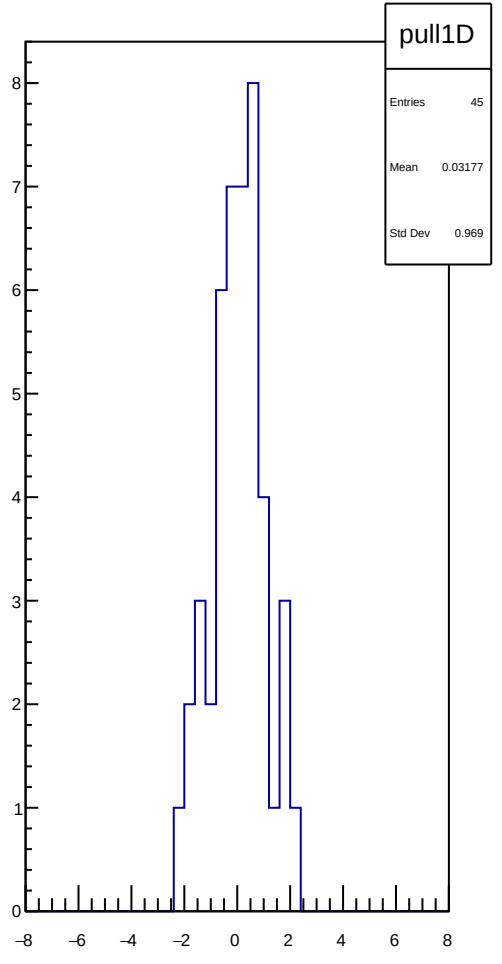


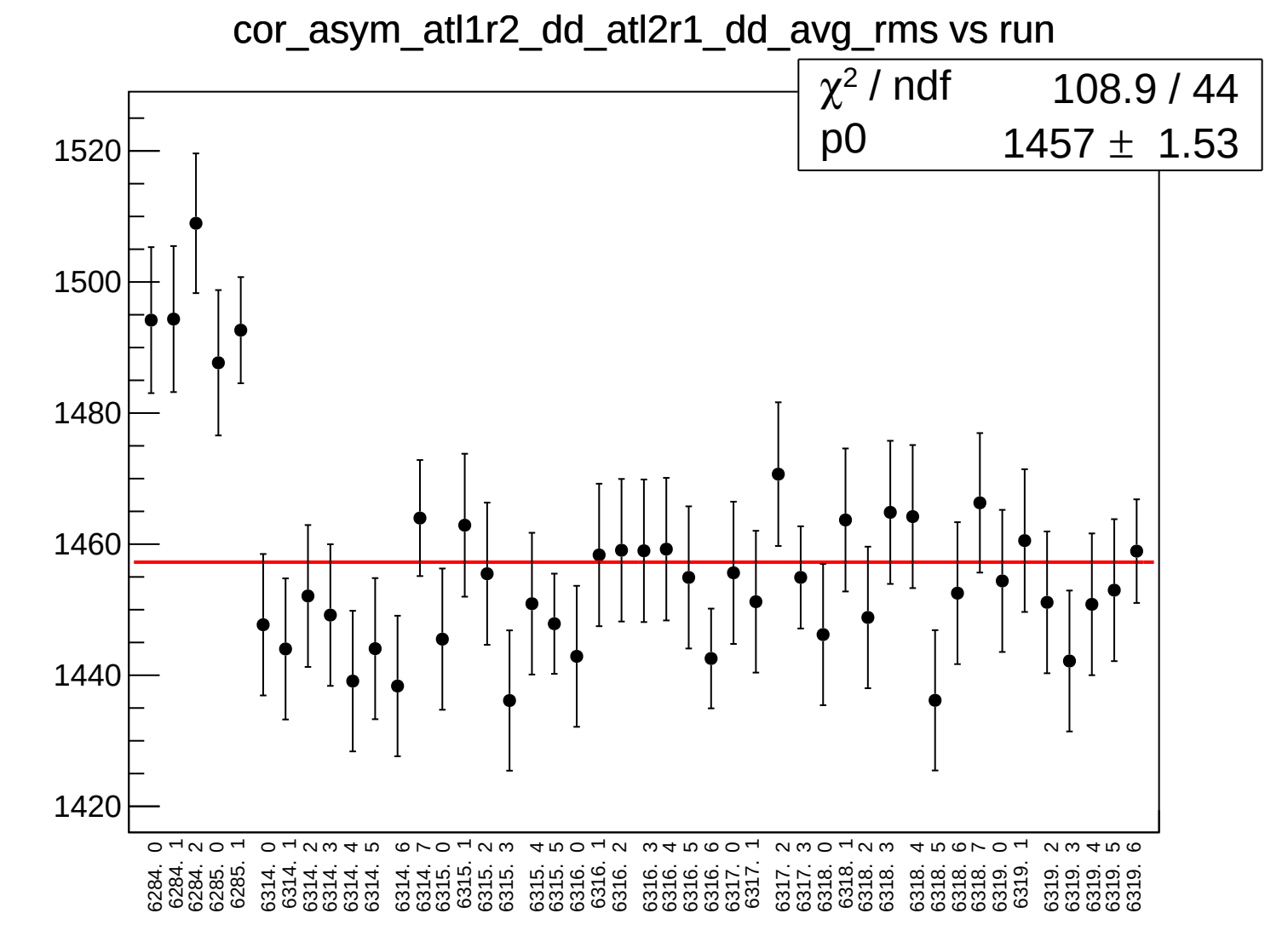





asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 8178 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 42.3 / 44
p0 630.4 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03177
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
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6317. 1
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6318. 1
6318. 2
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6318. 4
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6318. 7
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6319. 2
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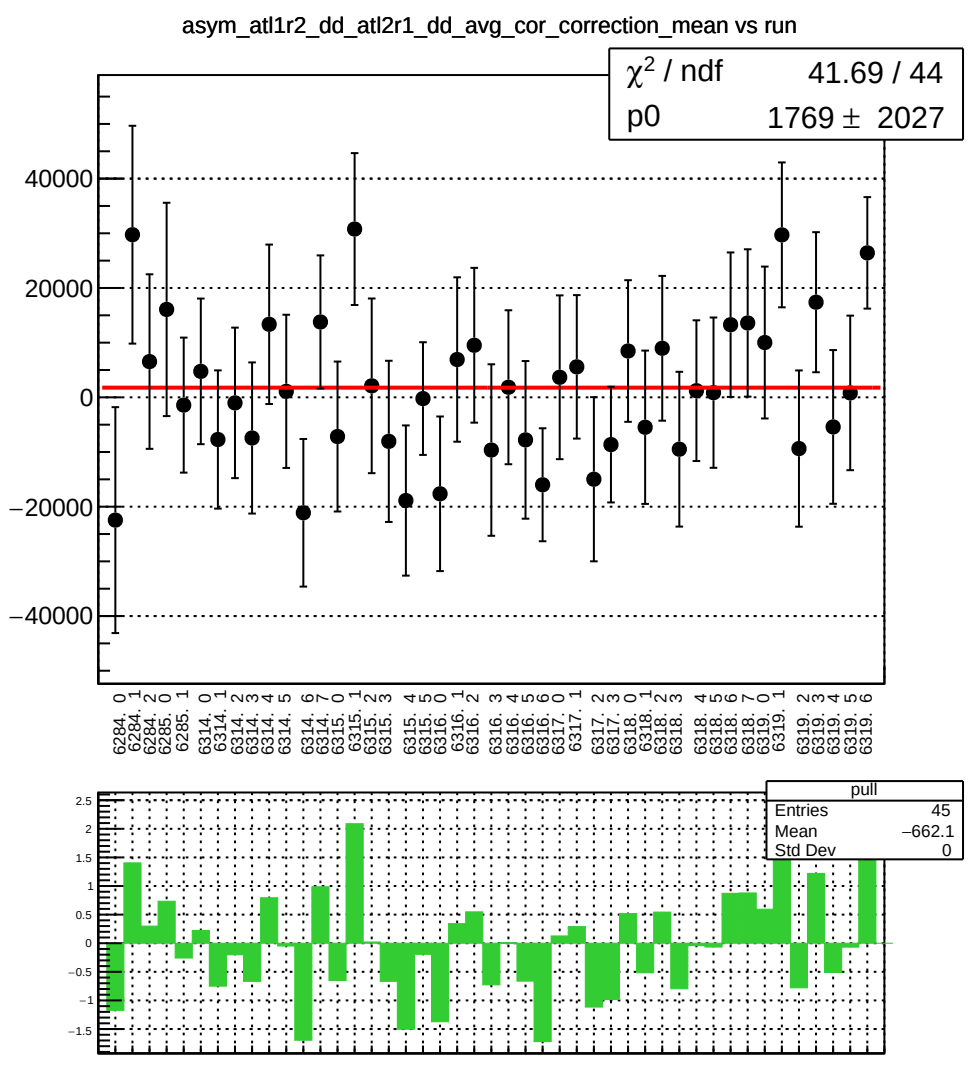
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 41.69 / 44
p0 1769 ± 2027
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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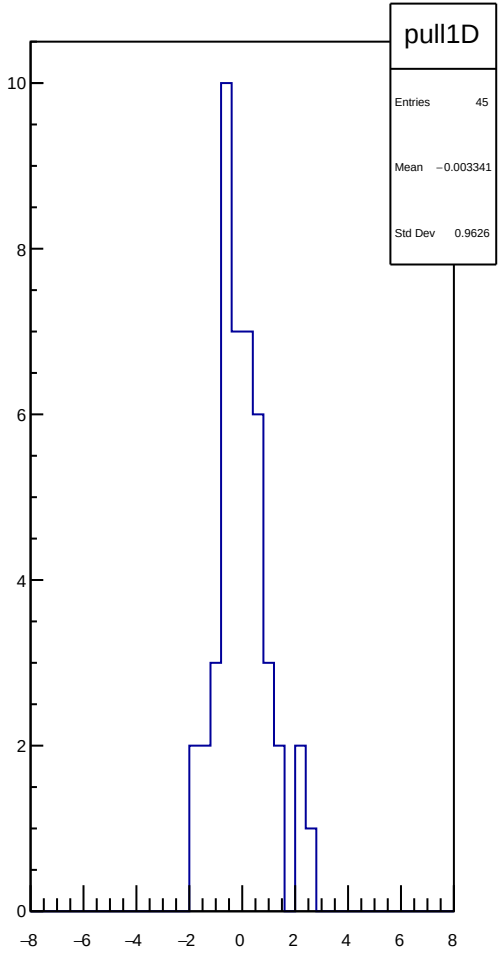
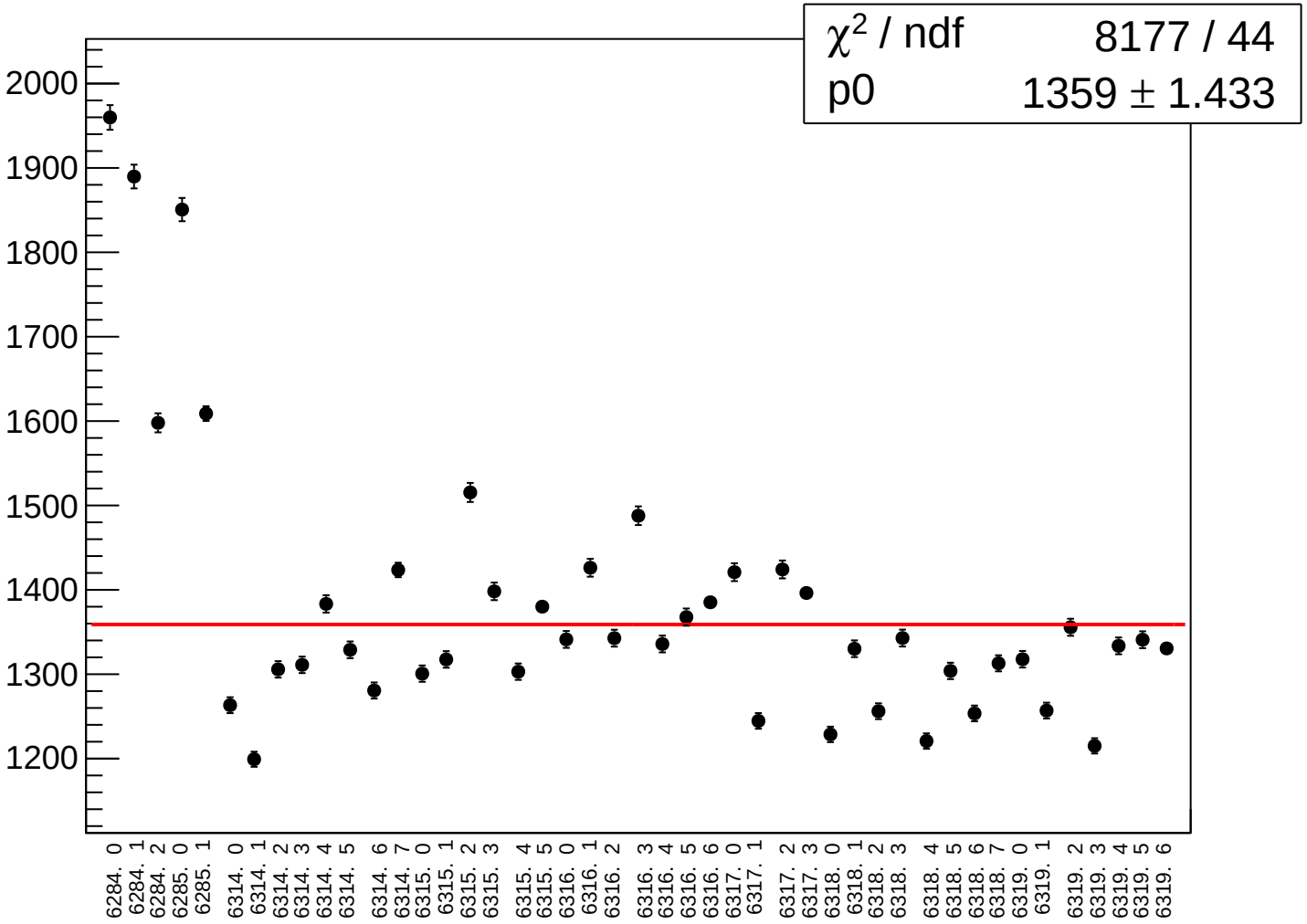
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −662.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.003341
Std Dev 0.9626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 8177 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6316. 2
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6318. 0
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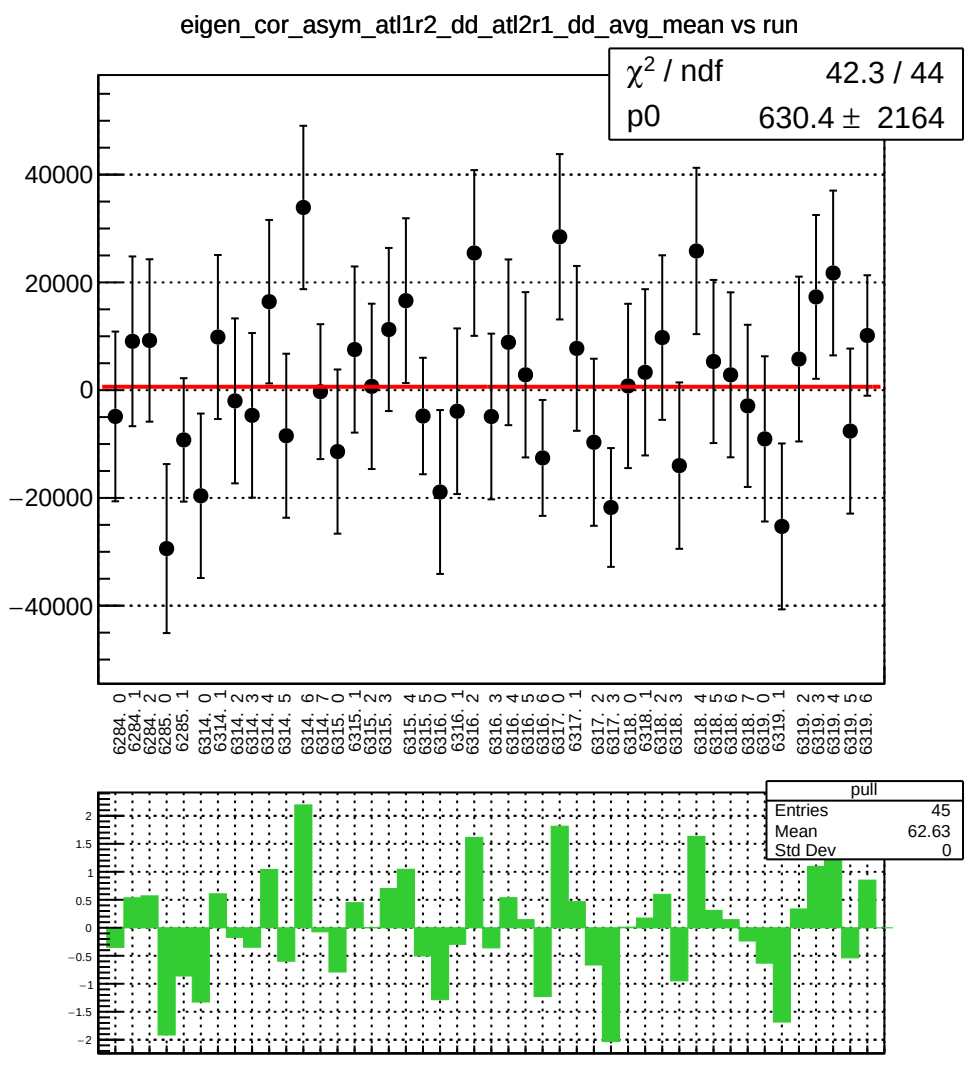
6319. 5
6319. 6


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 42.3 / 44
p0 630.4 ± 2164
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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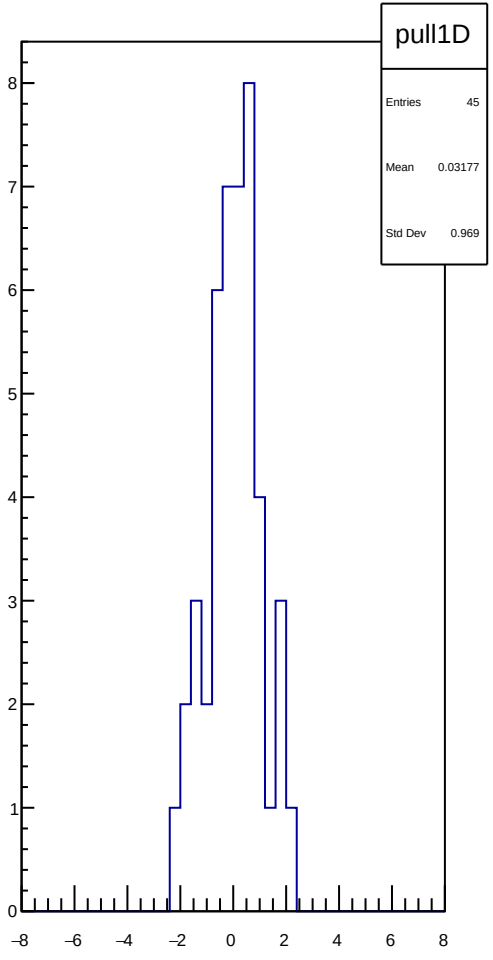
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03177
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
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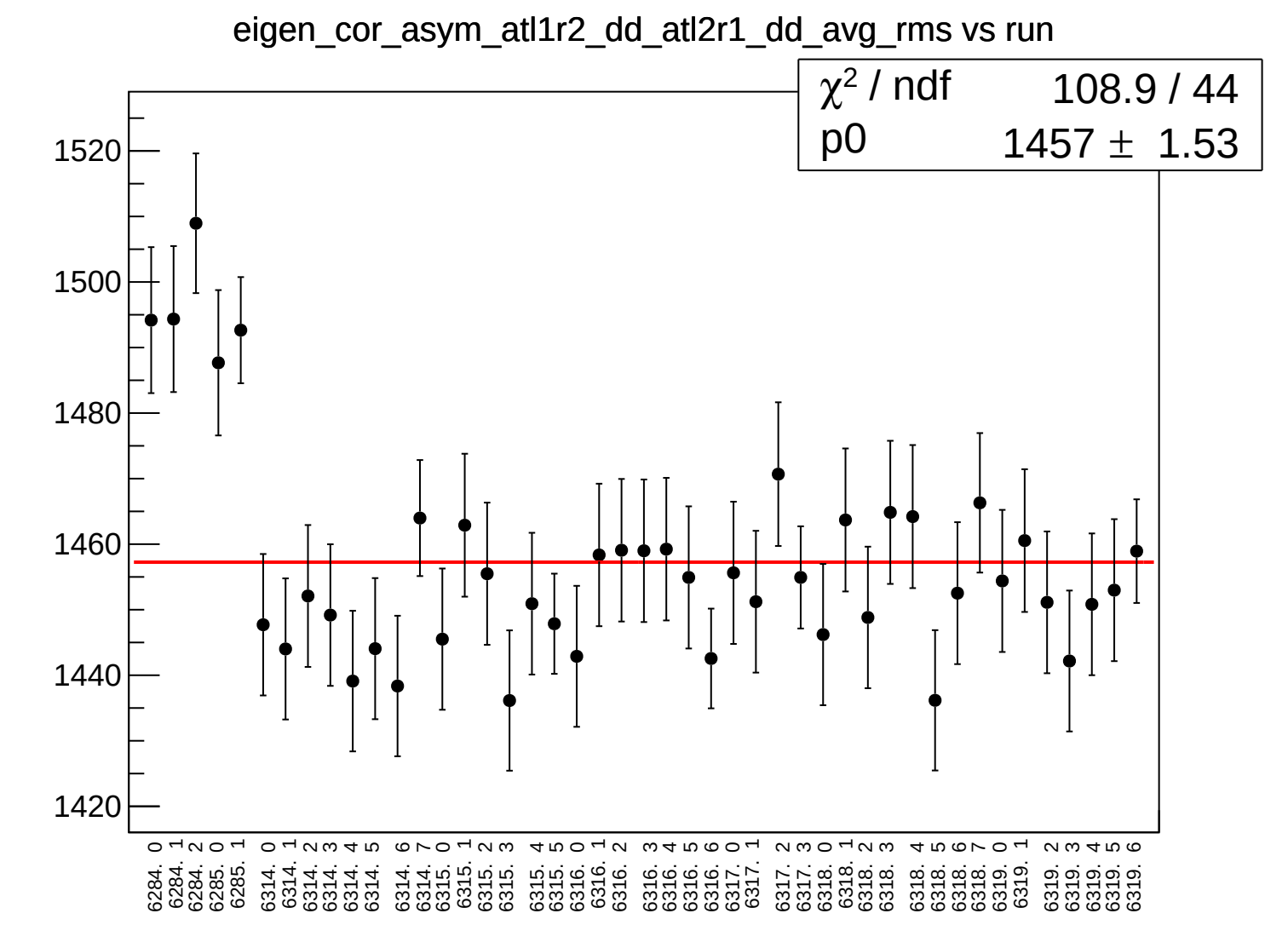
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 108.9 / 44
p0 1457 ± 1.53
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 3
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6314. 6
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6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 2
6318. 3
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6318. 7
6319. 0
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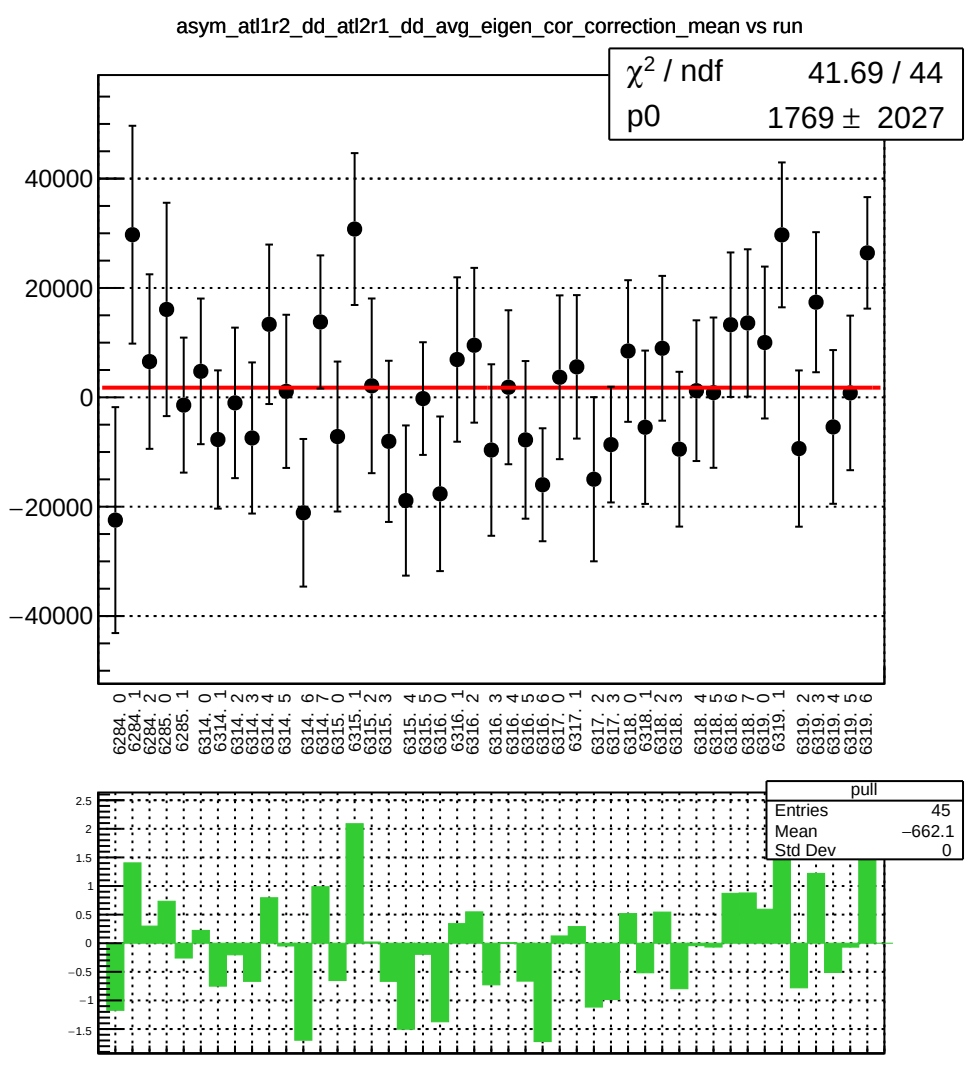
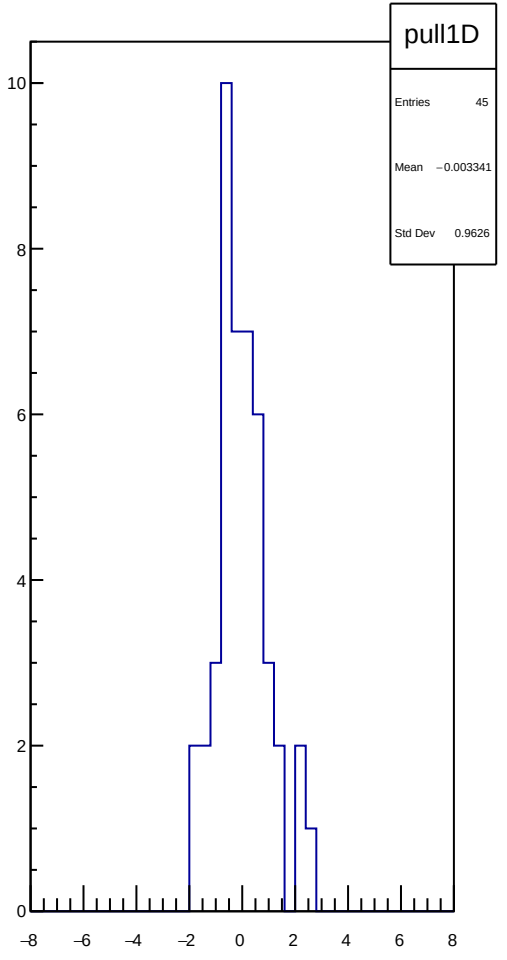
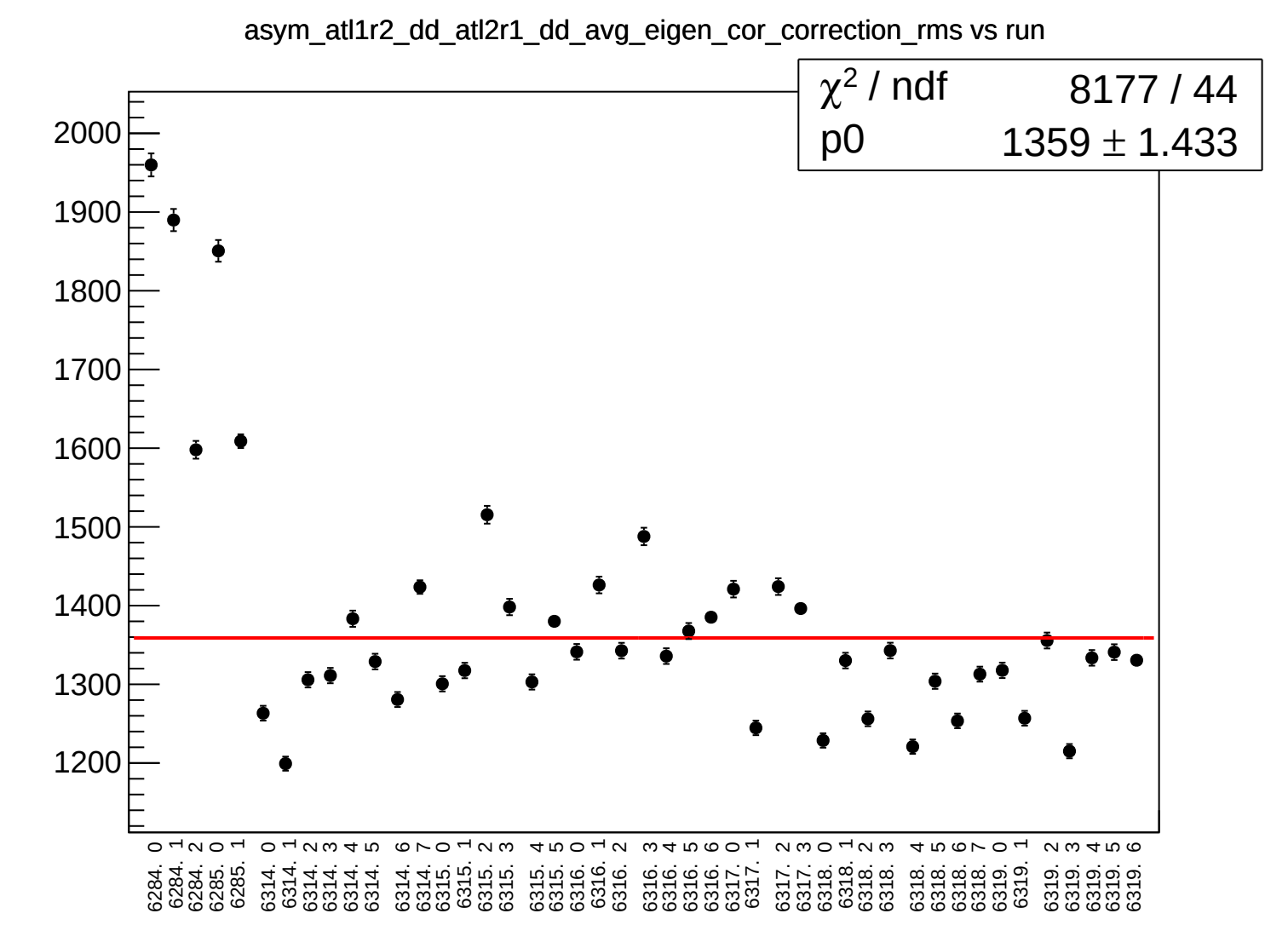
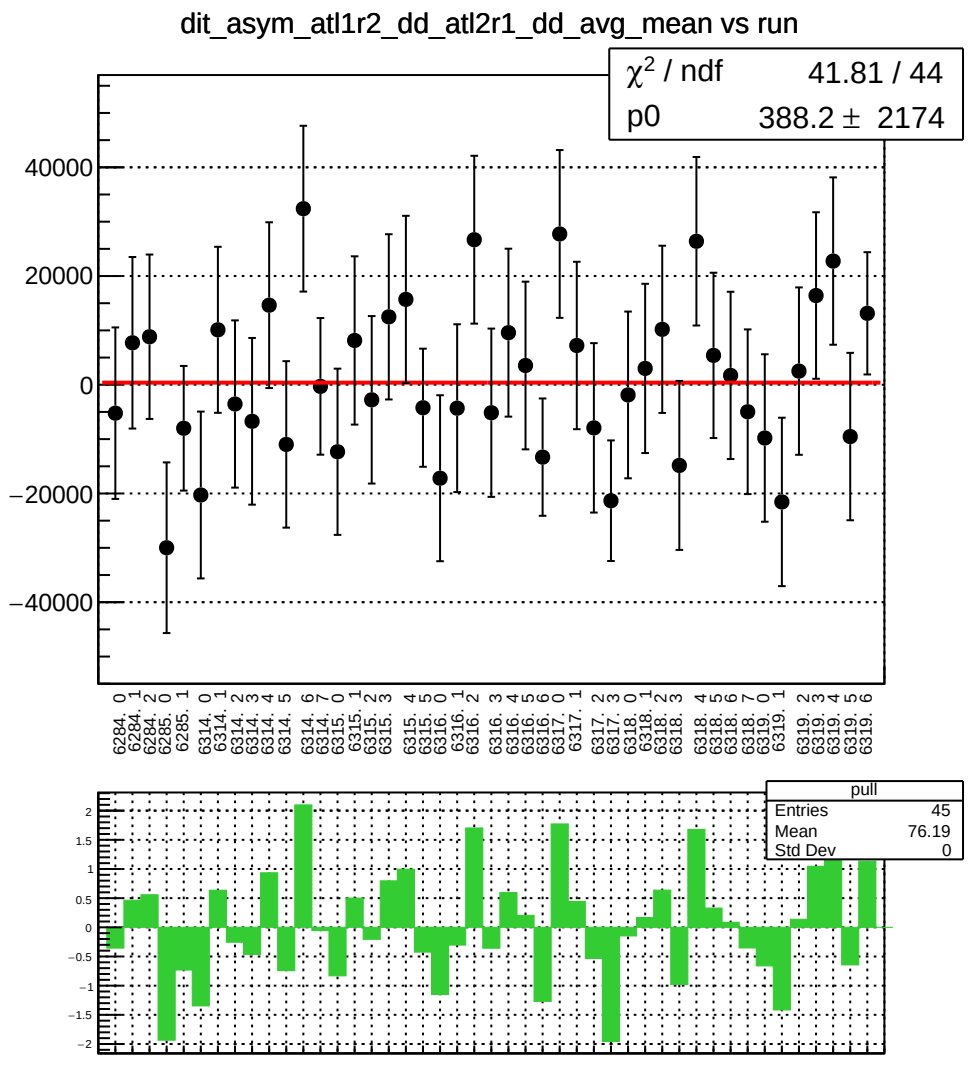
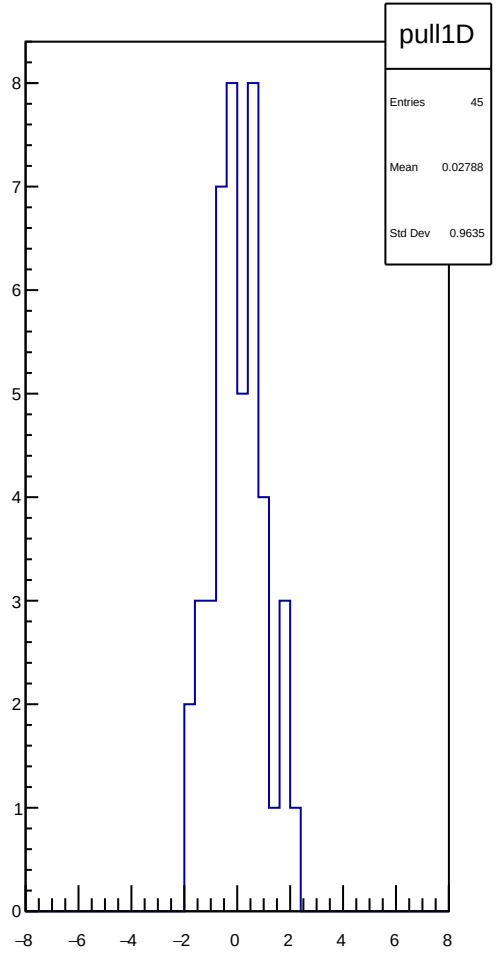
6319. 4
6319. 5
6319. 6

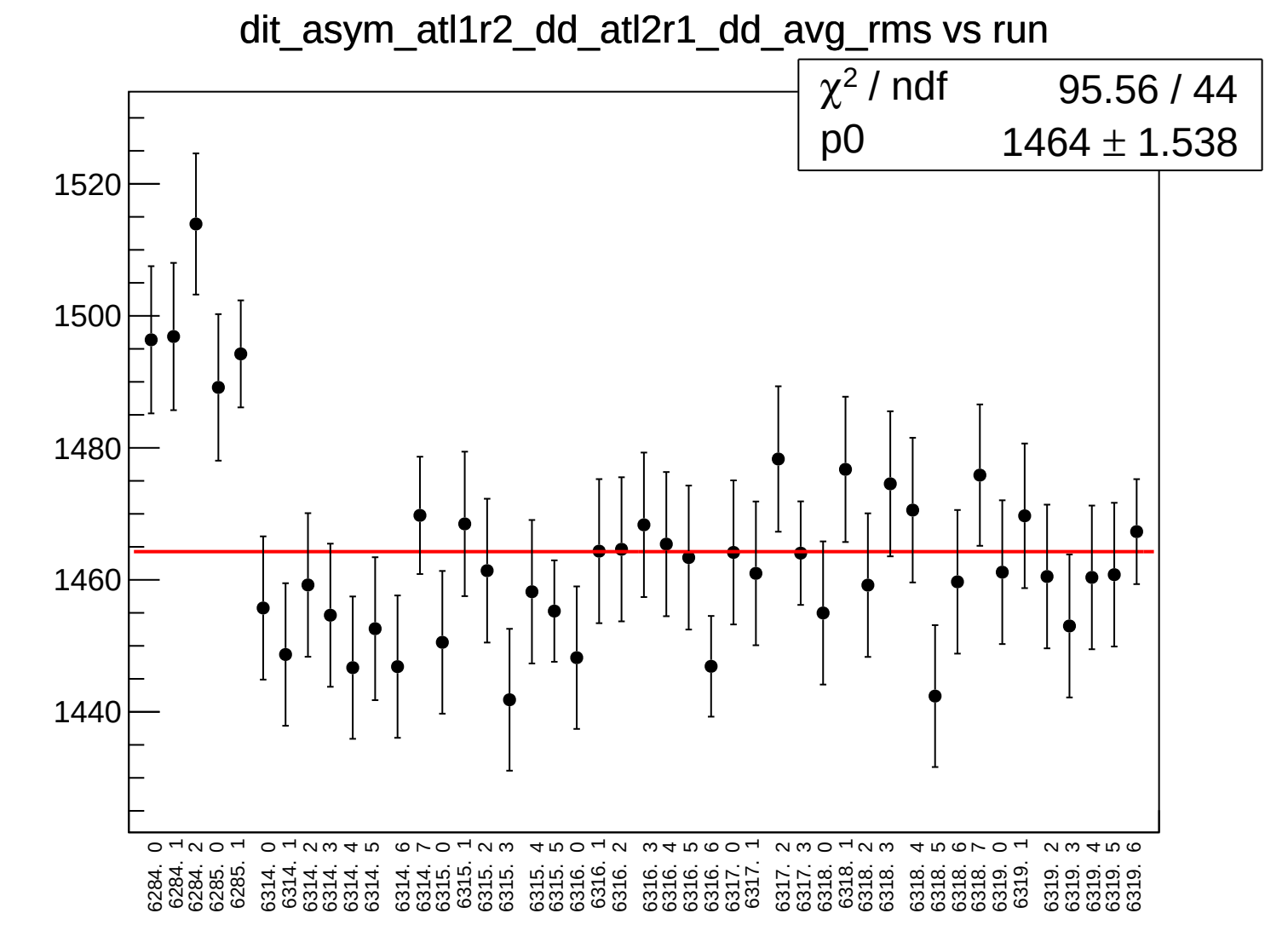

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.69 / 44
p0 1769 ± 2027
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −662.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

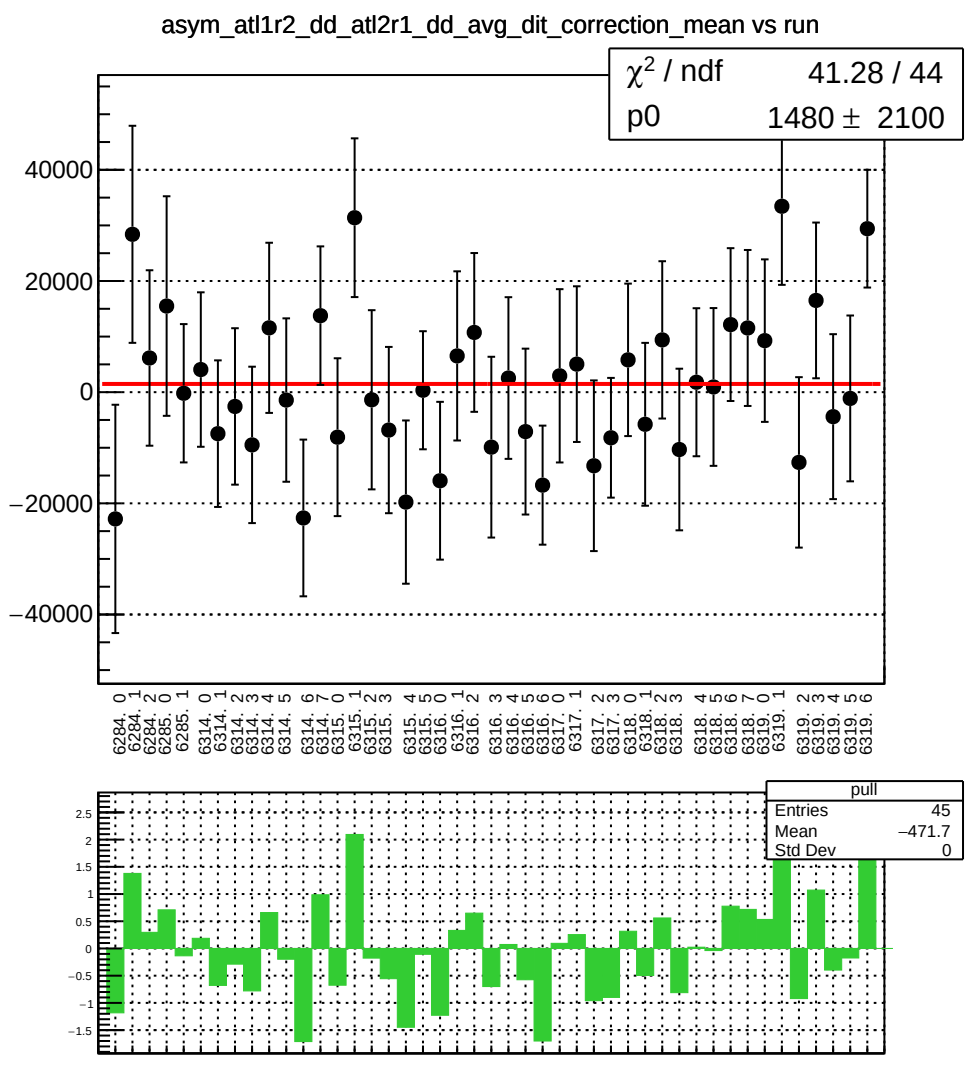

pull1D
Entries 45
Mean −0.003341
Std Dev 0.9626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

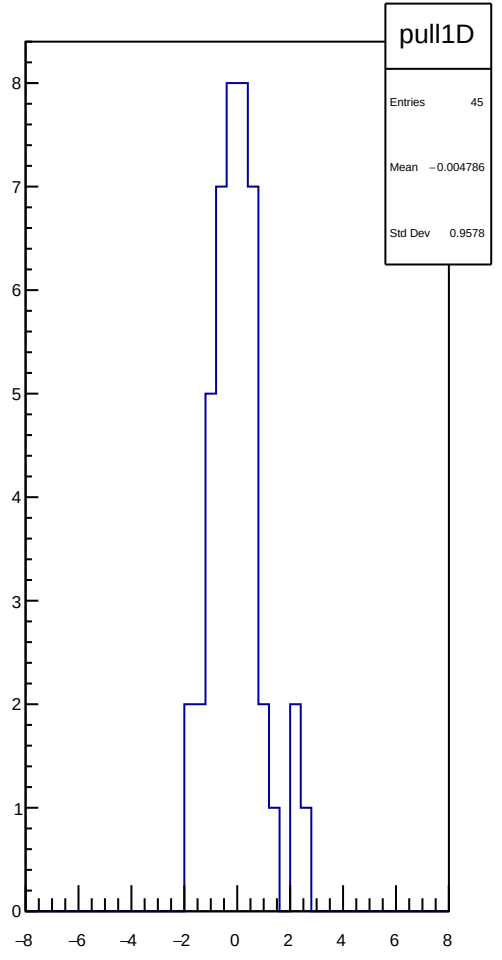

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8177 / 44
p0 1359 ± 1.433
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

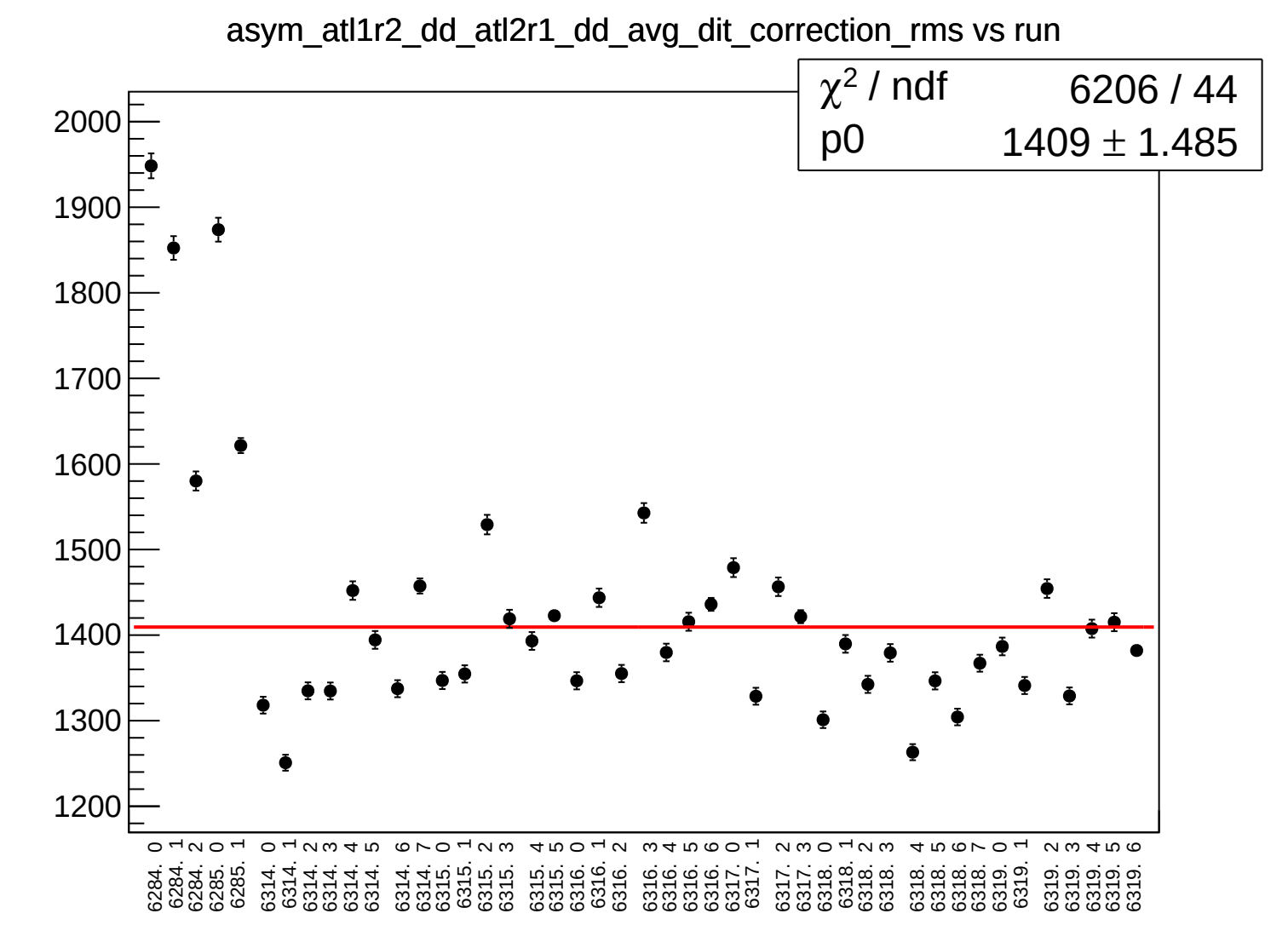

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 41.81 / 44
p0 388.2 ± 2174
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

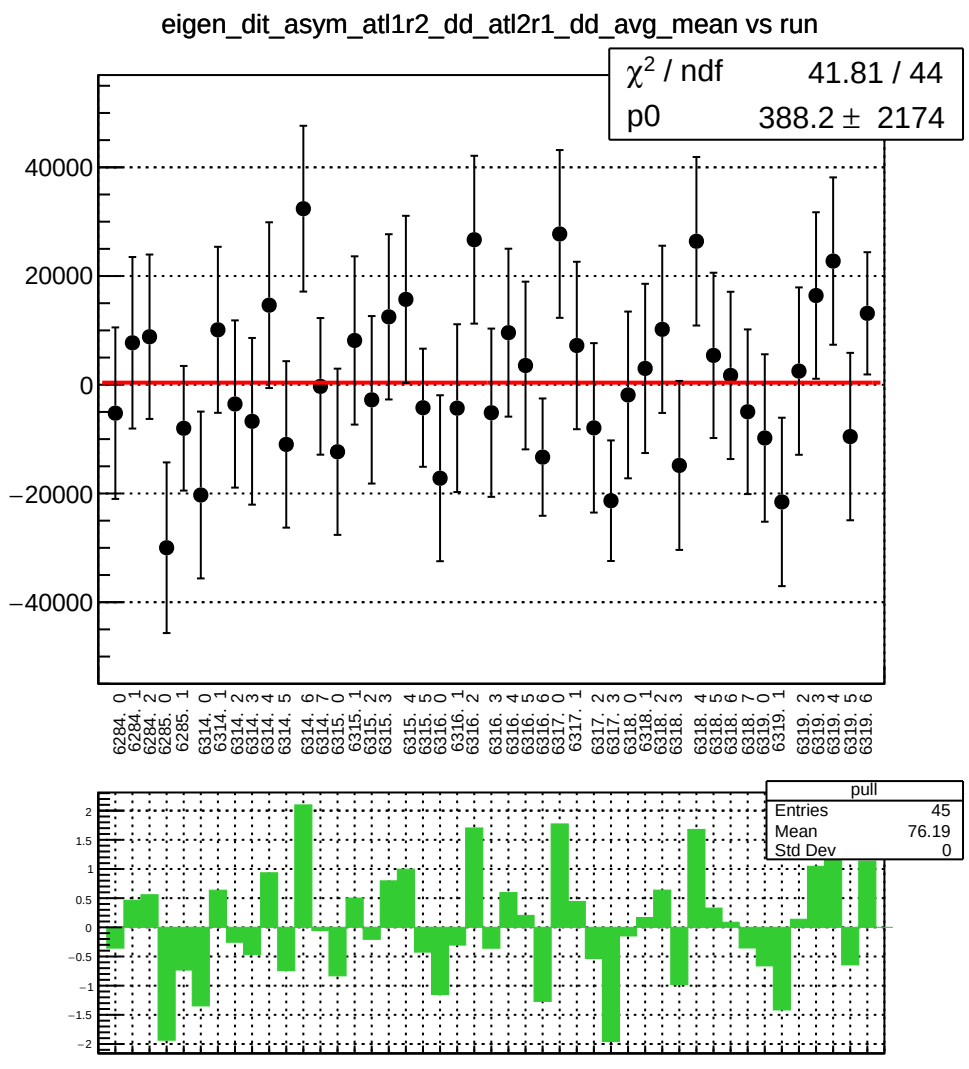

pull1D
Entries 45
Mean 0.02788
Std Dev 0.9635
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 95.56 / 44
p0 1464 ± 1.538
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 41.28 / 44
p0 1480 ± 2100
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −471.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004786
Std Dev 0.9578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 6206 / 44
p0 1409 ± 1.485
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 41.81 / 44
p0 388.2 ± 2174
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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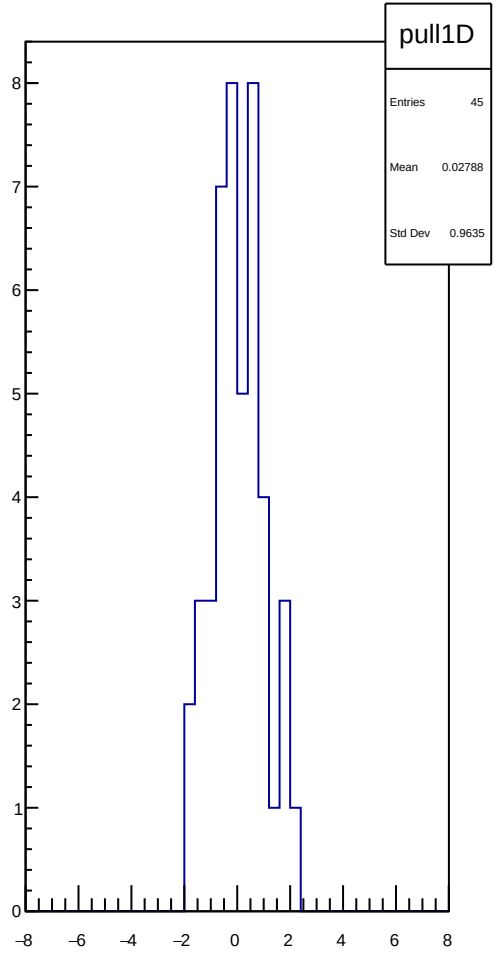
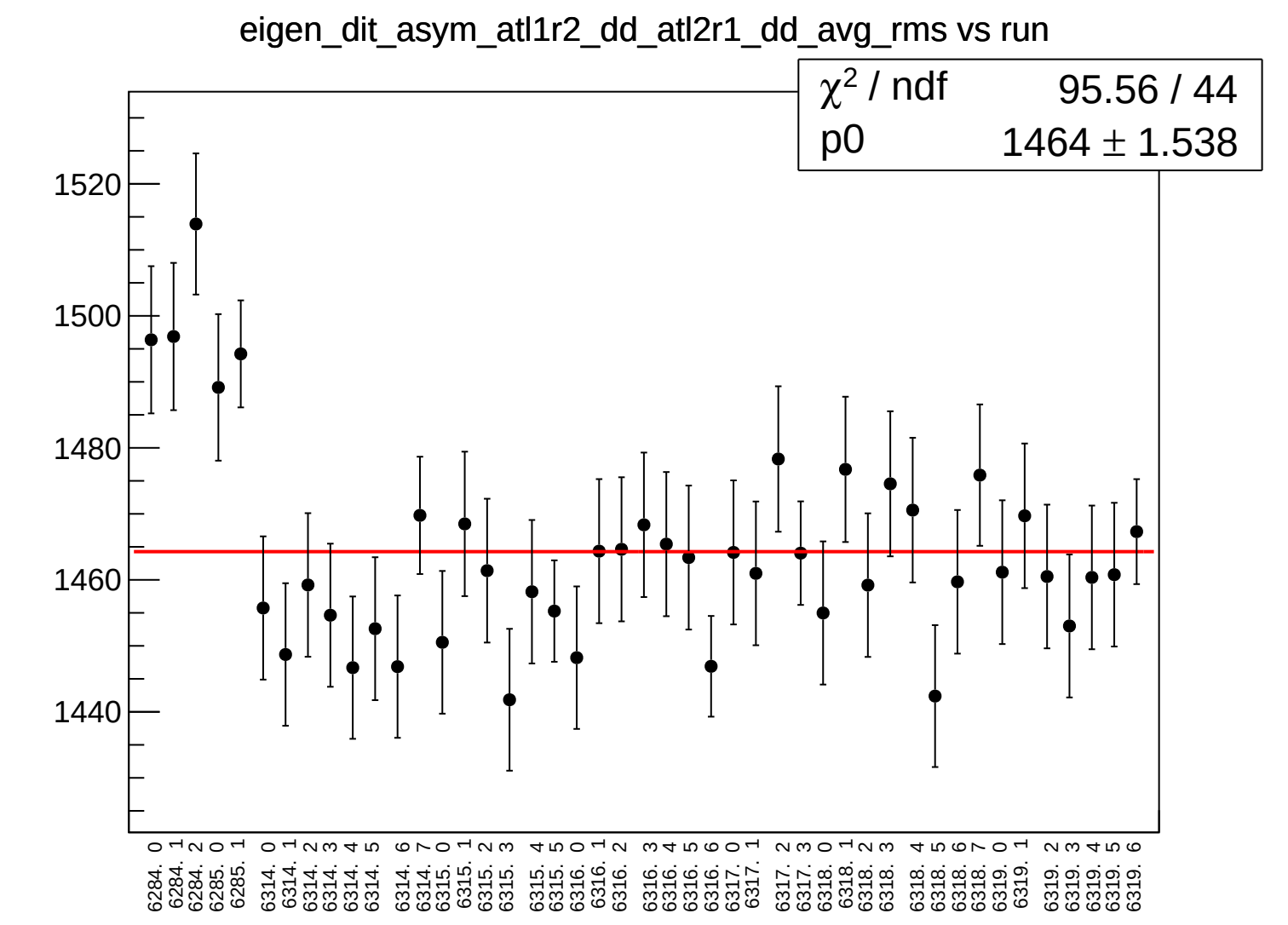
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02788
Std Dev 0.9635
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 95.56 / 44
p0 1464 ± 1.538
1520
1500
1480
1460
1440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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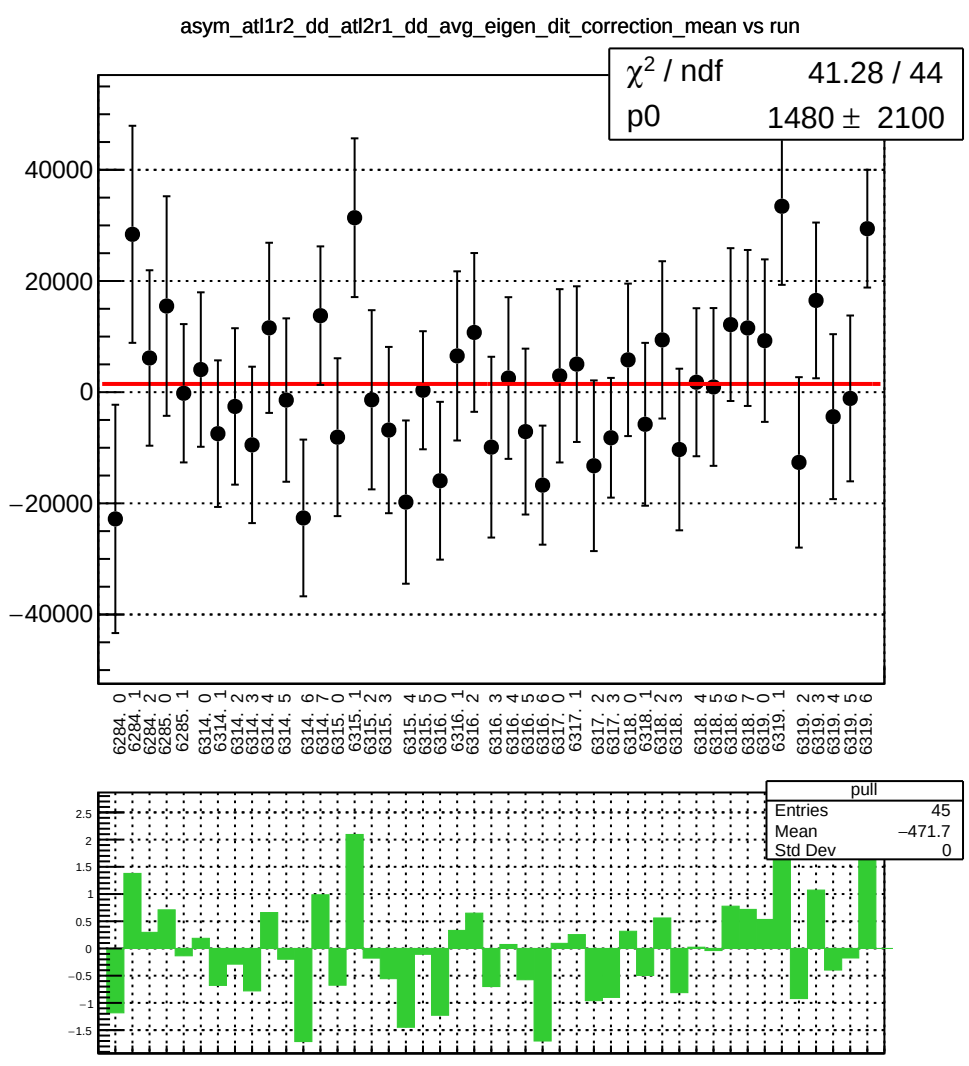
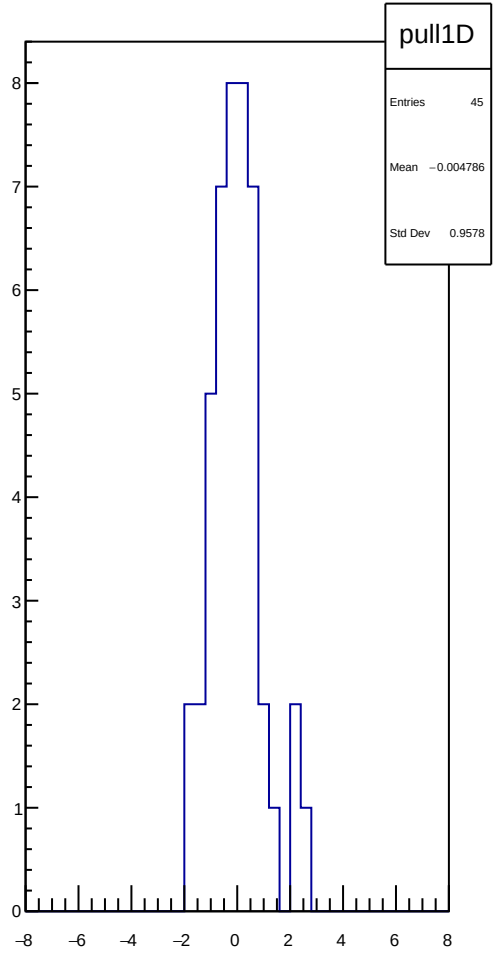
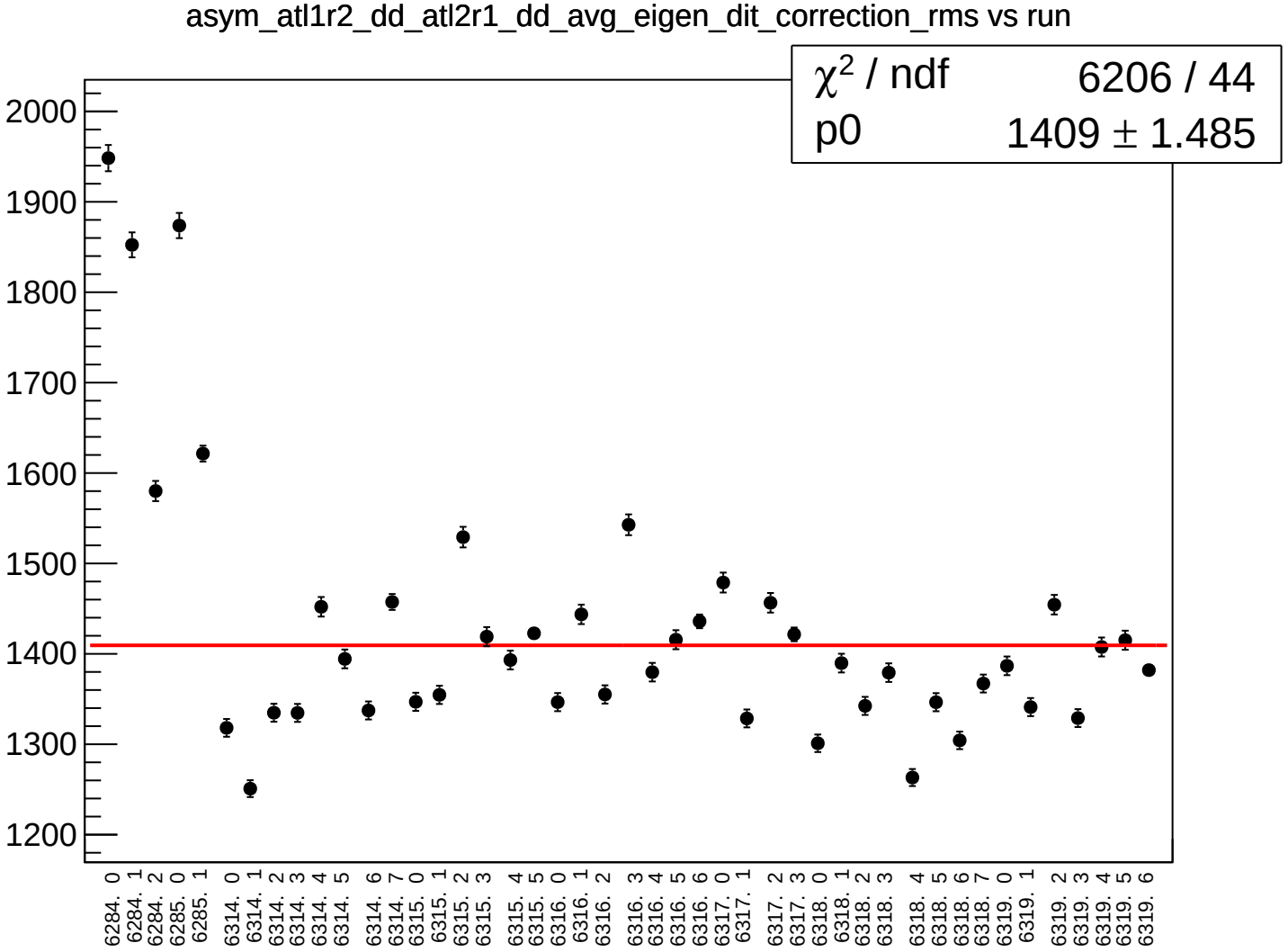
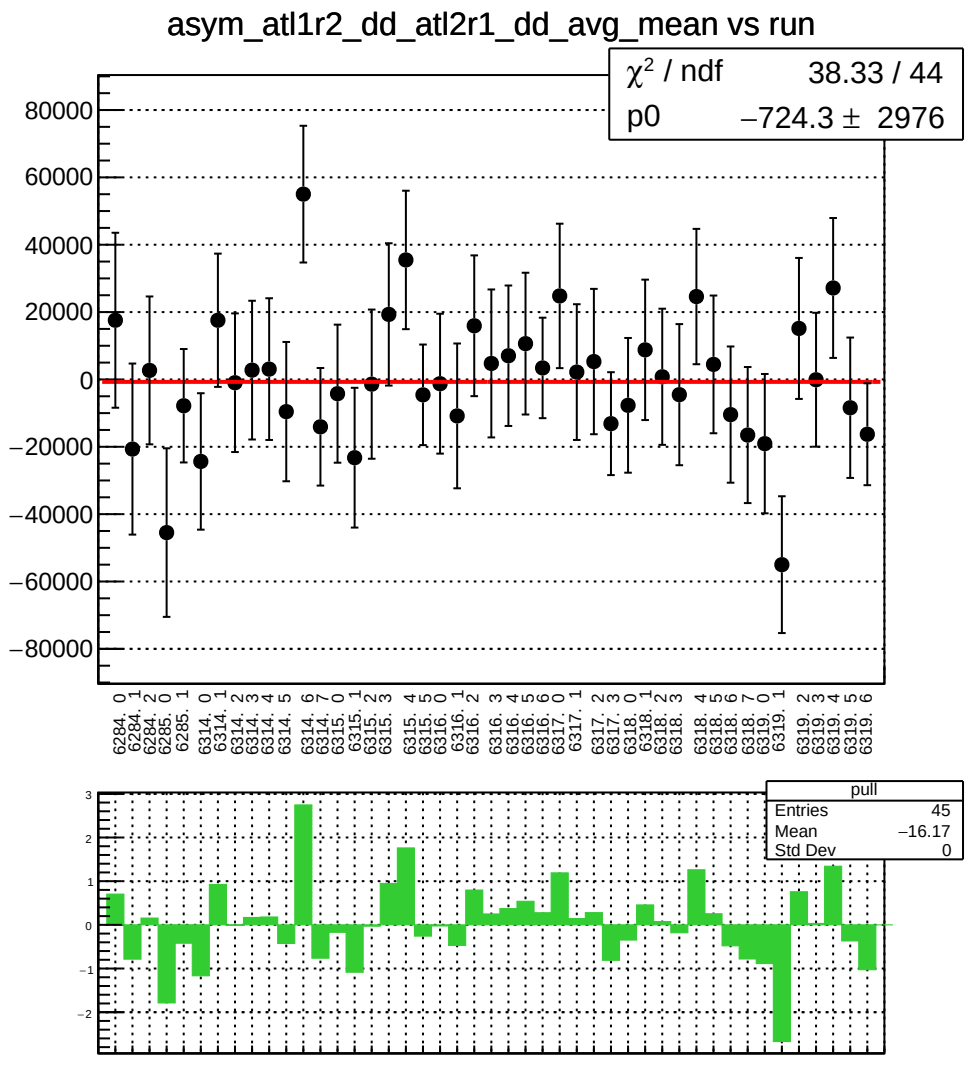
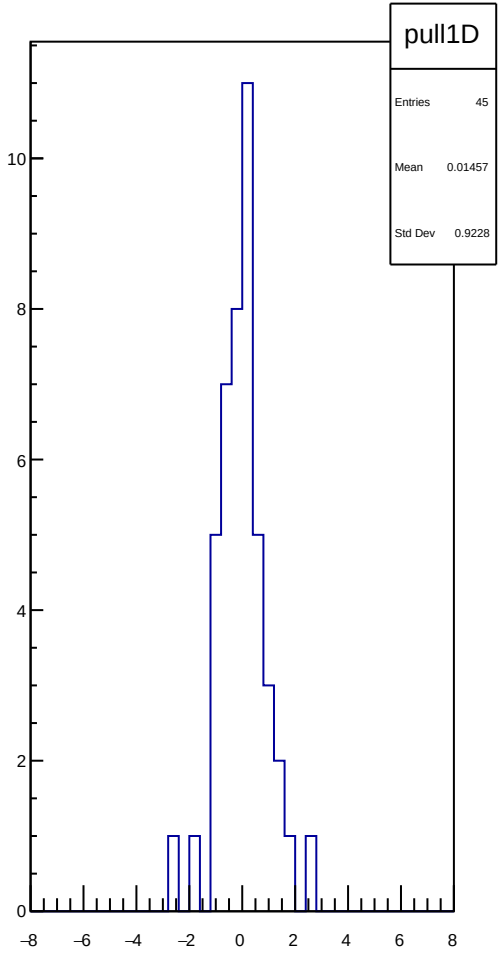
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

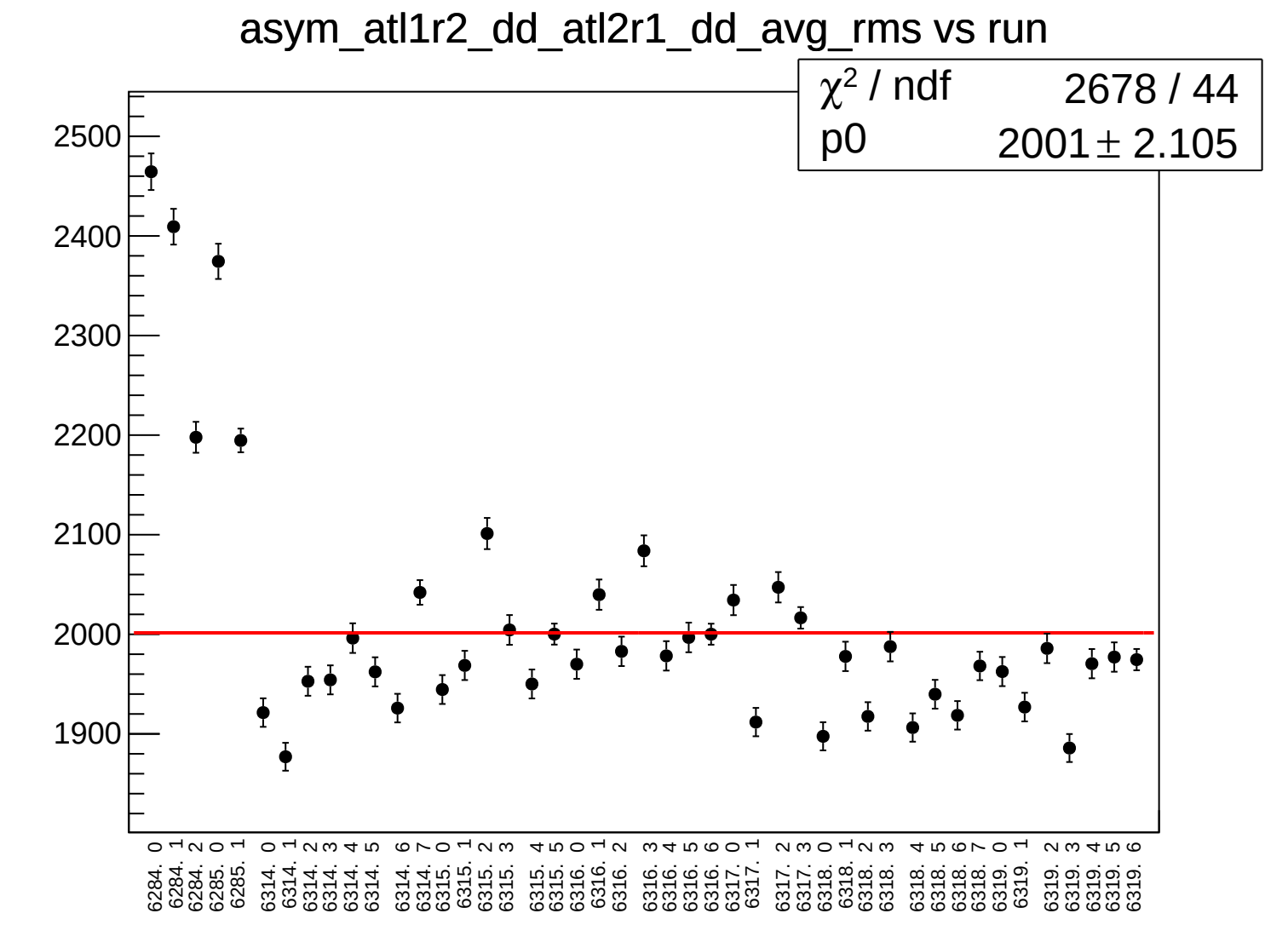

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.28 / 44
p0 1480 ± 2100
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −471.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

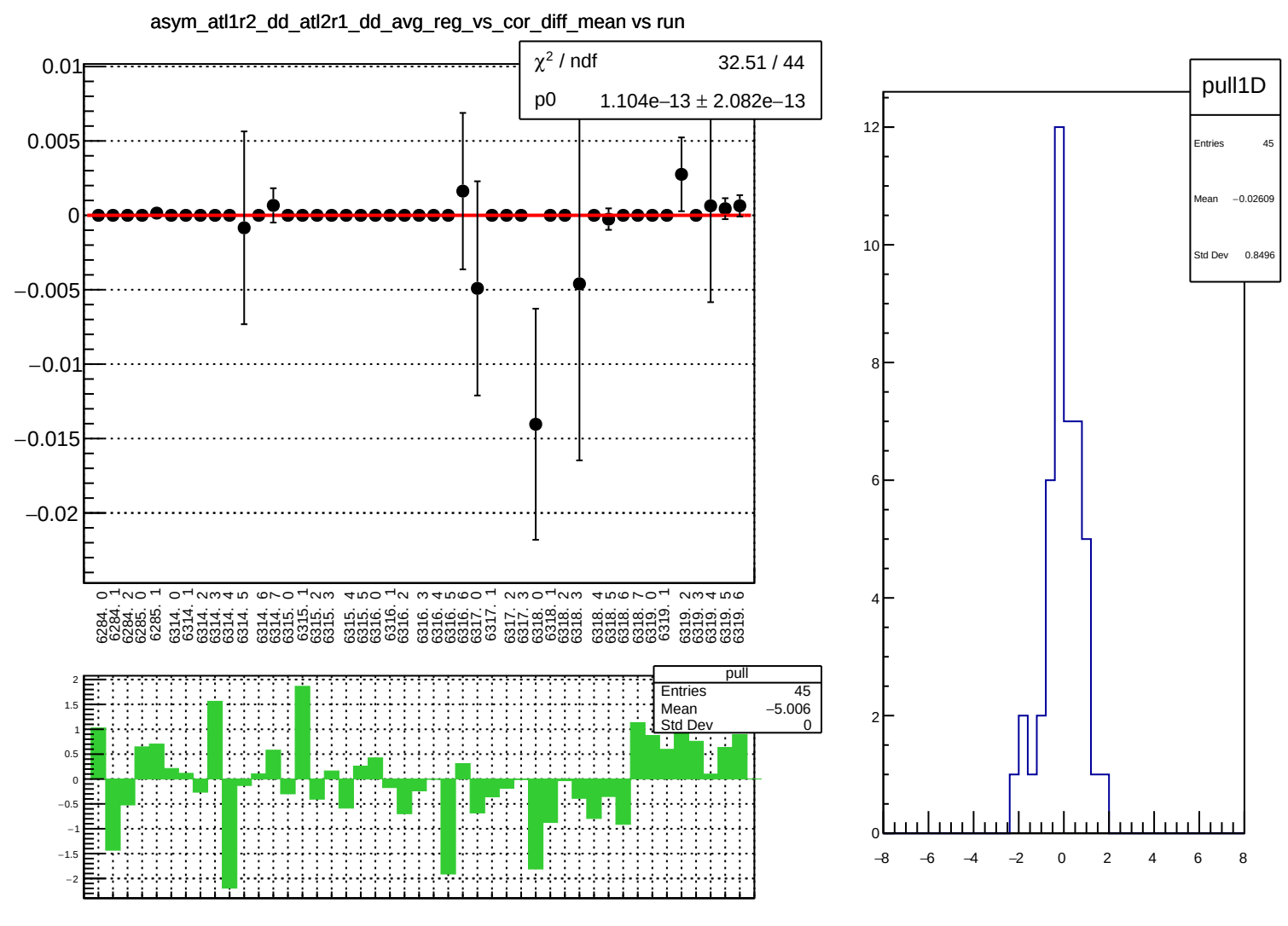

pull1D
Entries 45
Mean −0.004786
Std Dev 0.9578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

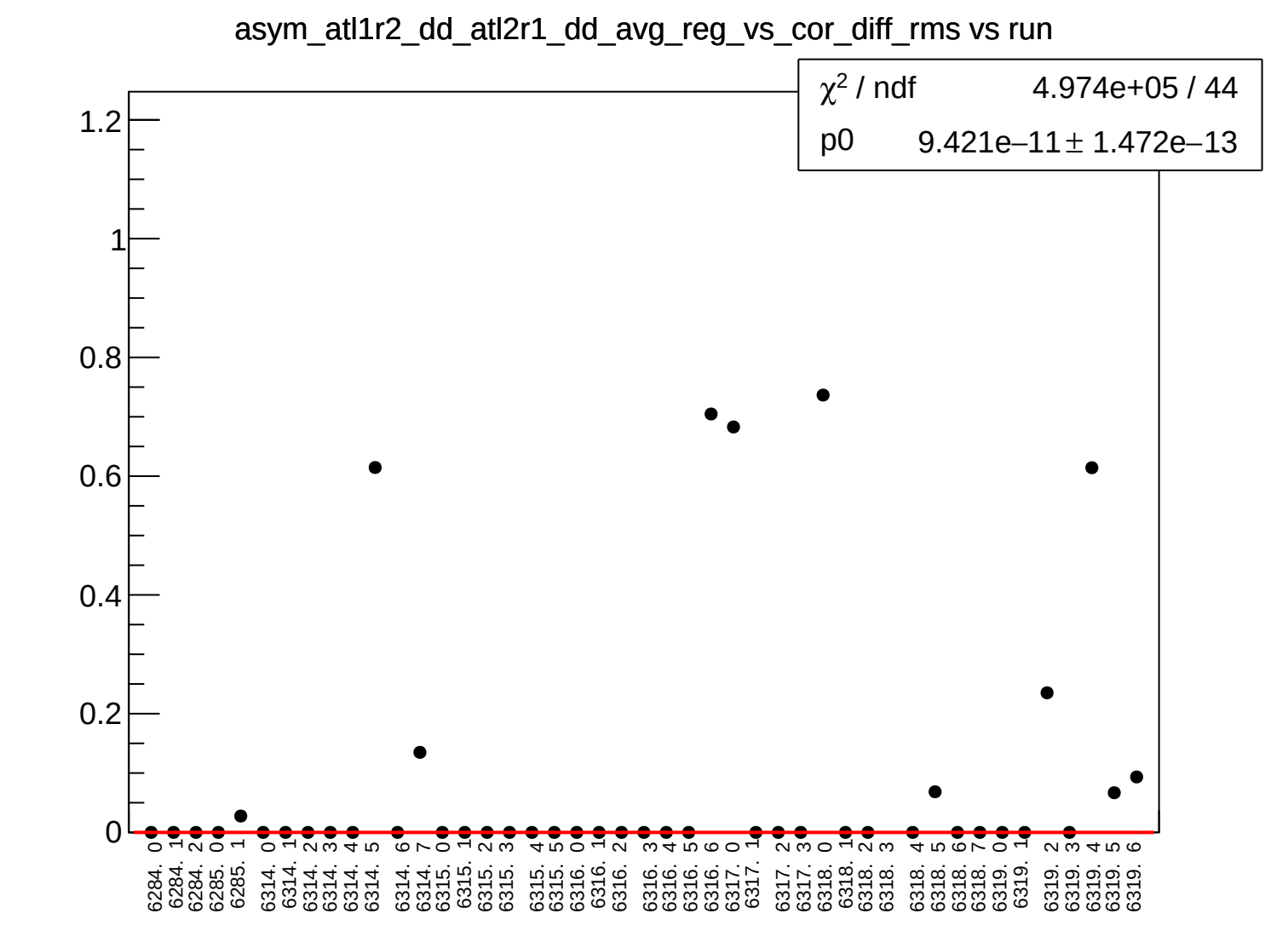

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6206 / 44
p0 1409 ± 1.485
2000
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 38.33 / 44
p0 −724.3 ± 2976
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −16.17
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01457
Std Dev 0.9228
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2678 / 44
p0 2001 ± 2.105
2500
2400
2300
2200
2100
2000
1900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.51 / 44
p0 1.104e−13 ± 2.082e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −5.006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02609
Std Dev 0.8496
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.974e+05 / 44
p0 9.421e−11 ± 1.472e−13
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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6319. 1
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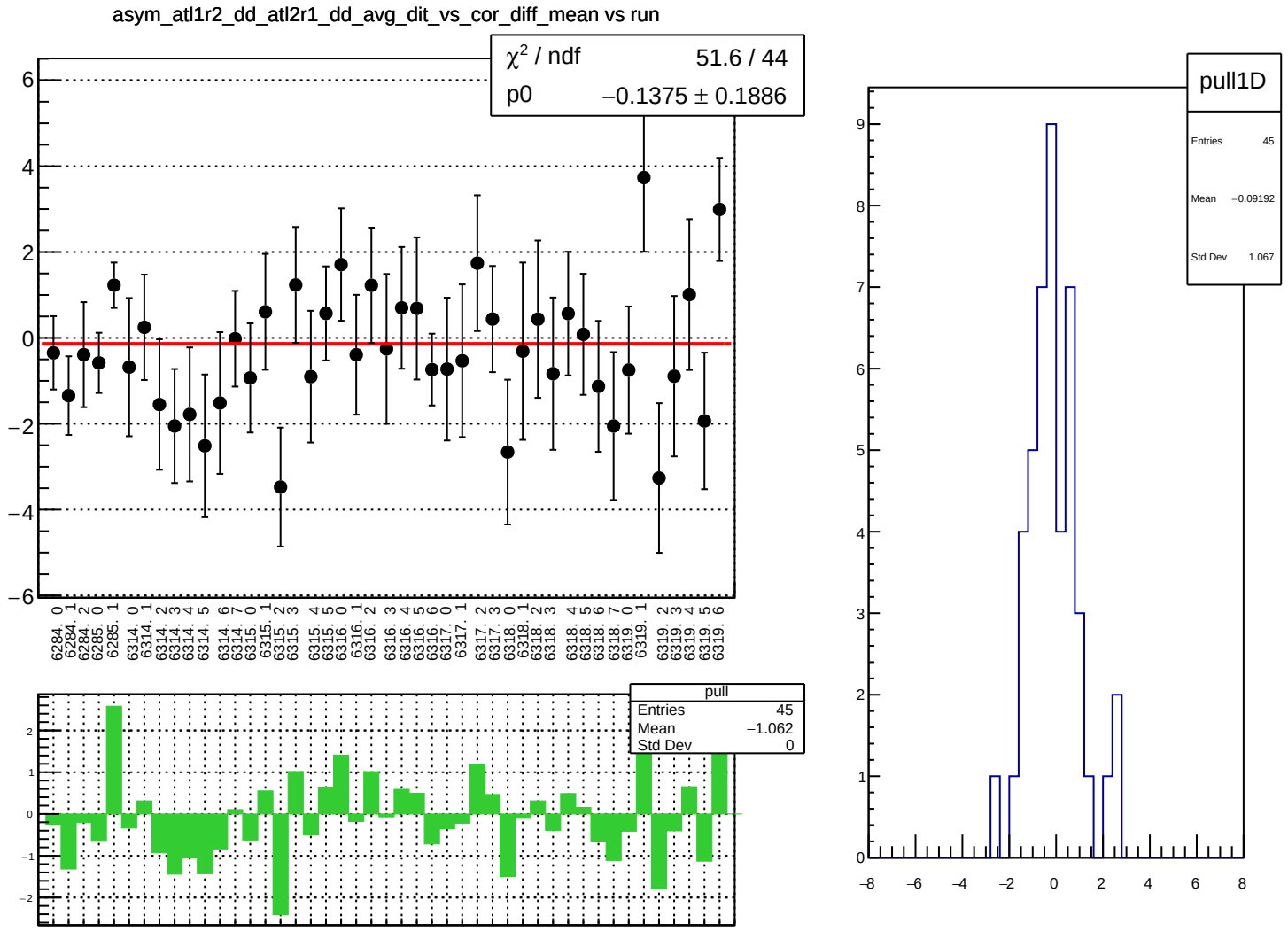
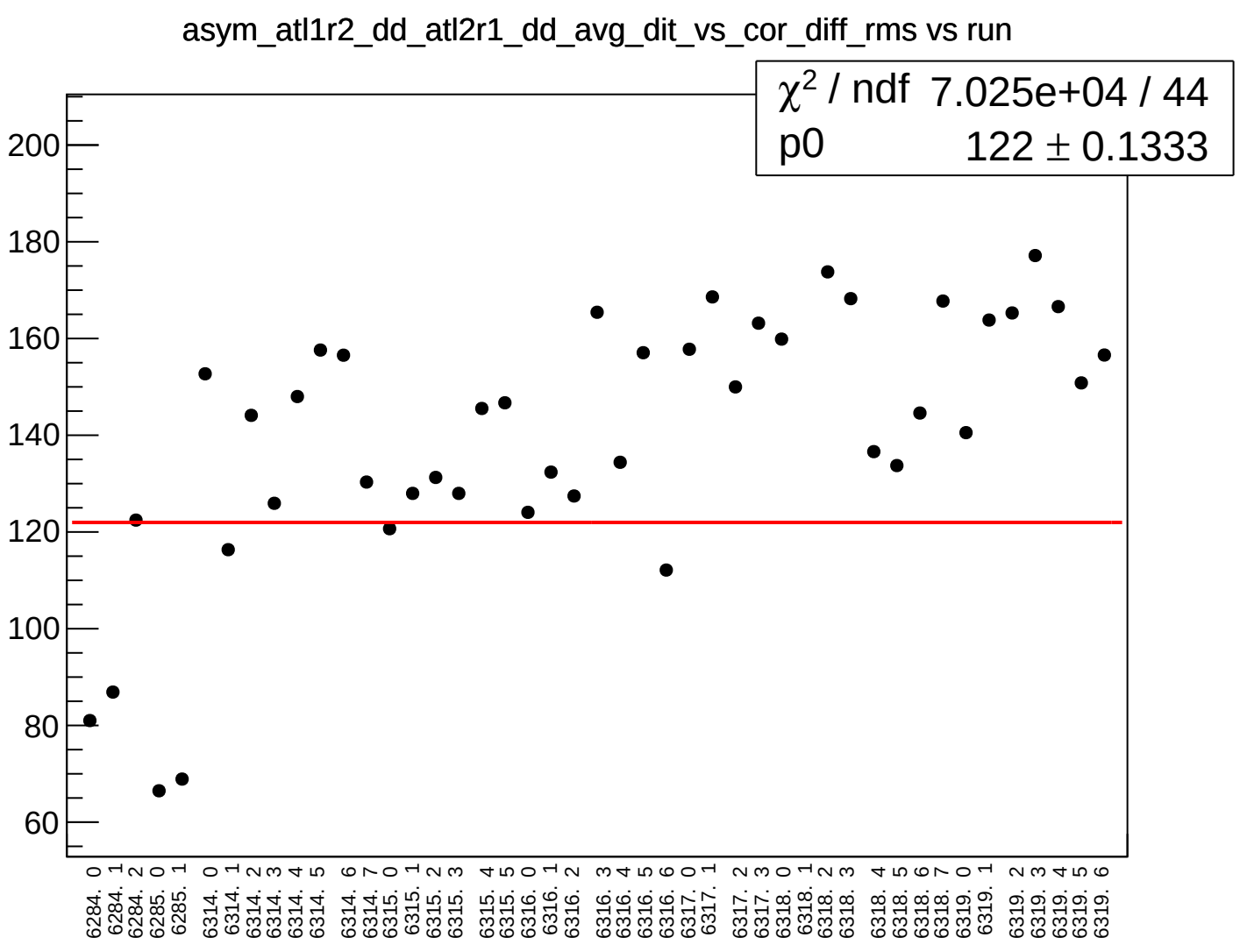
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1.062
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.09192
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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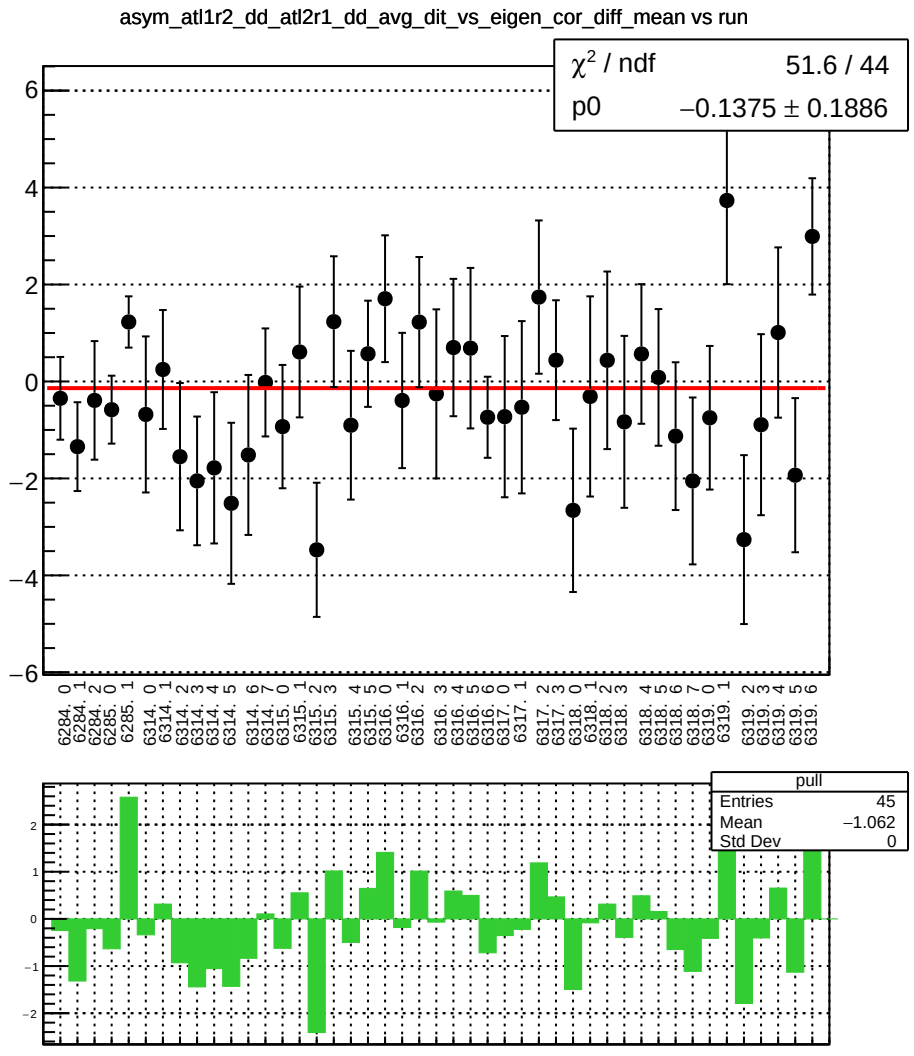
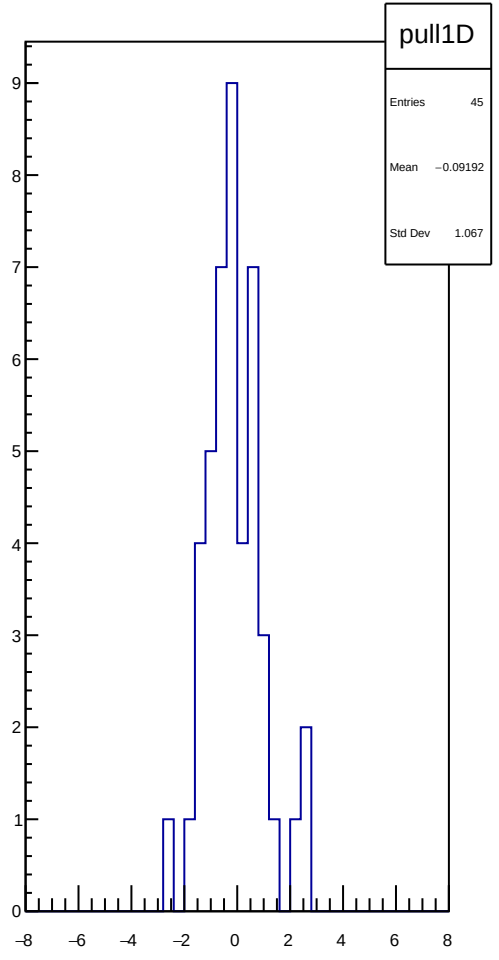
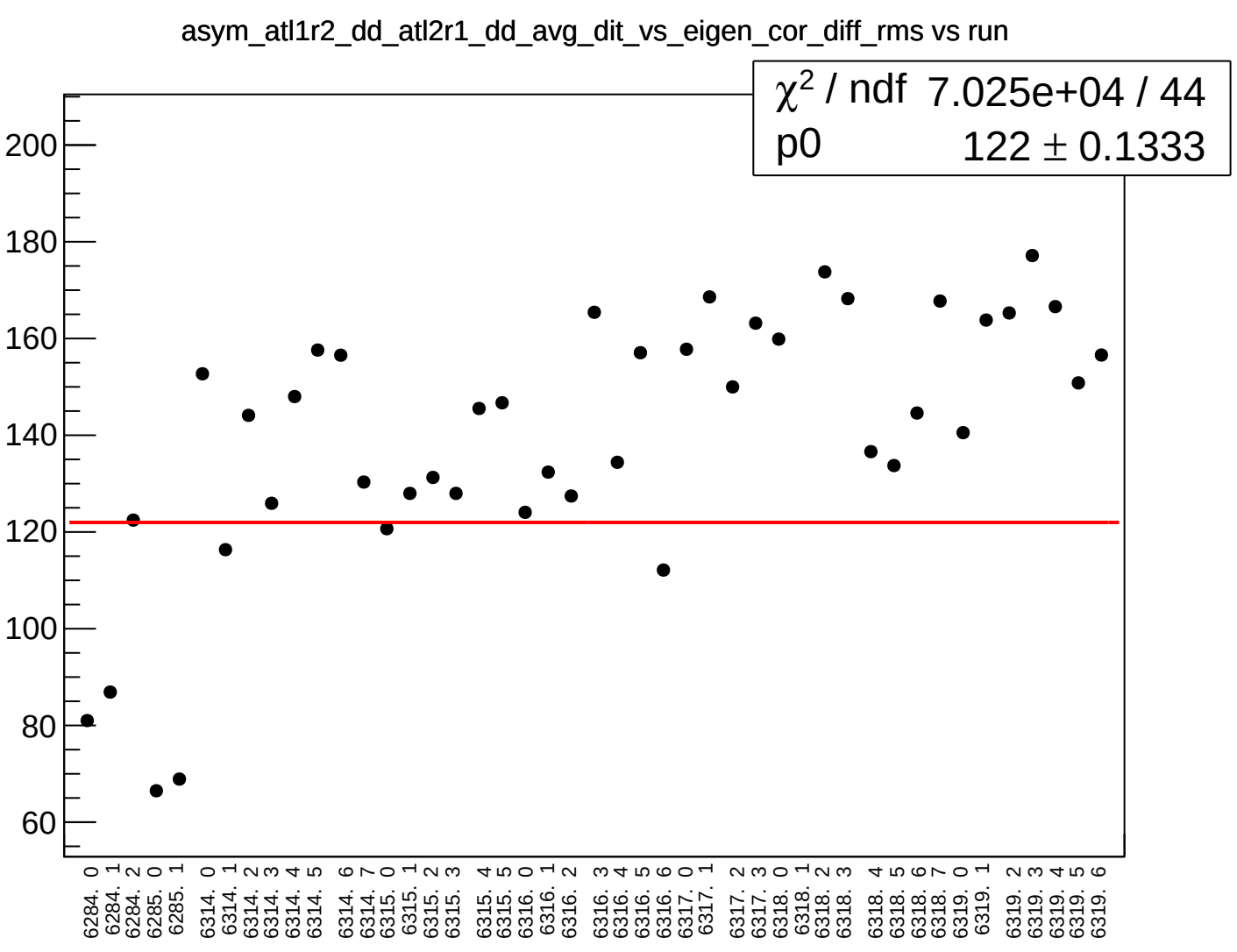
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
pull
Entries 45
Mean −1.062
Std Dev 0


pull1D
Entries 45
Mean −0.09192
Std Dev 1.067


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
6319. 3
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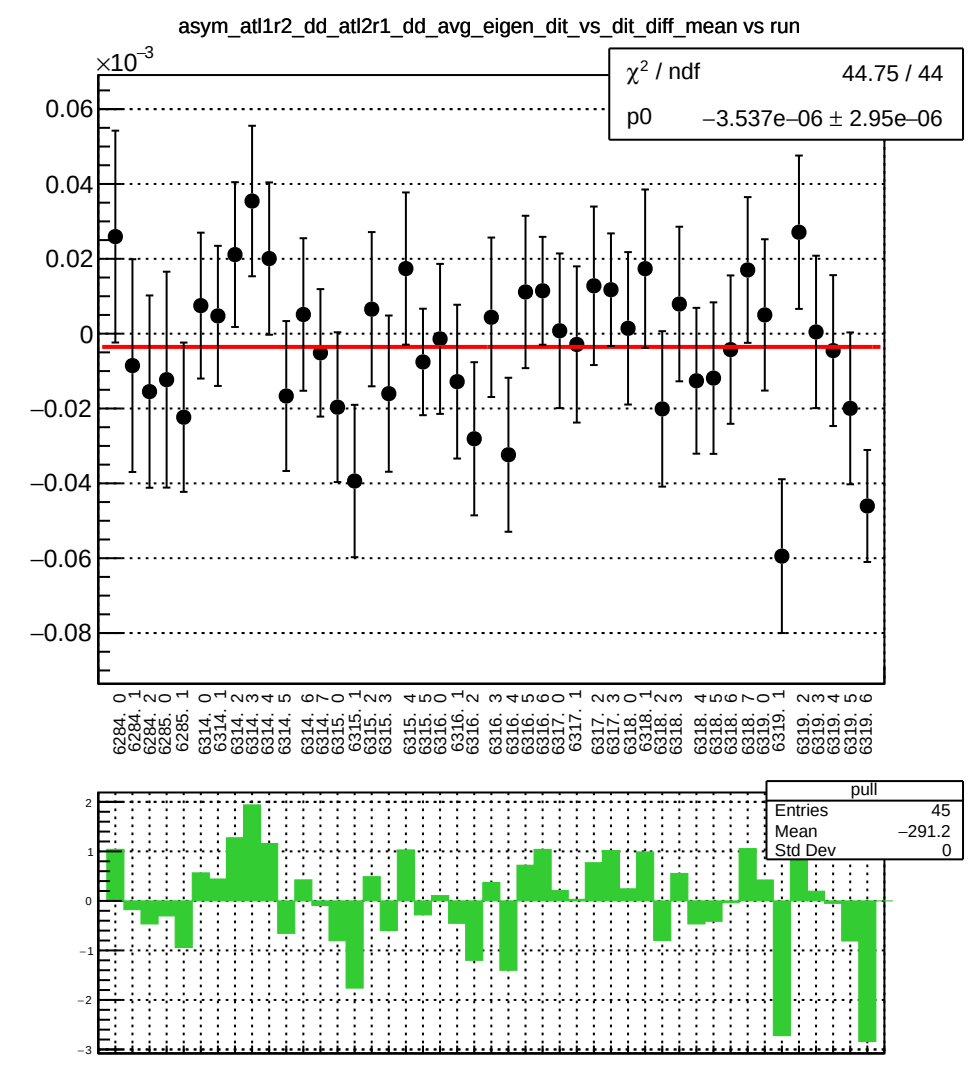
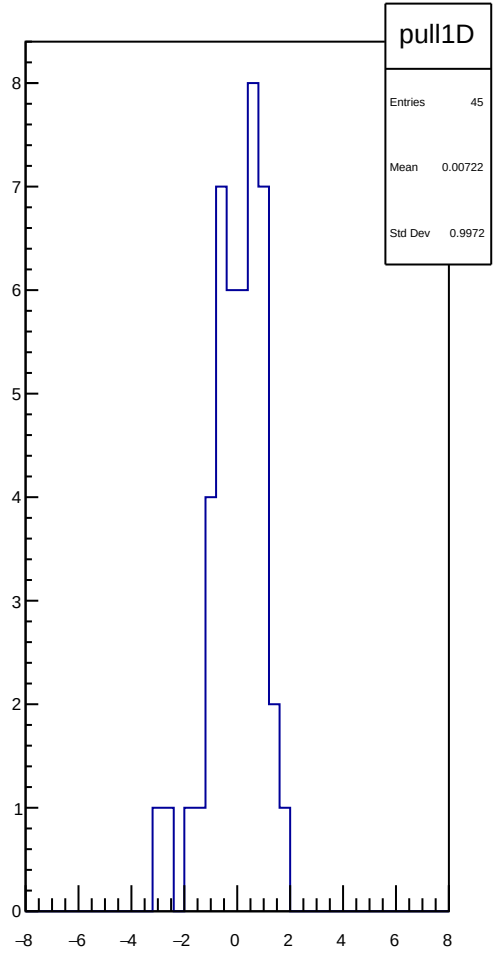
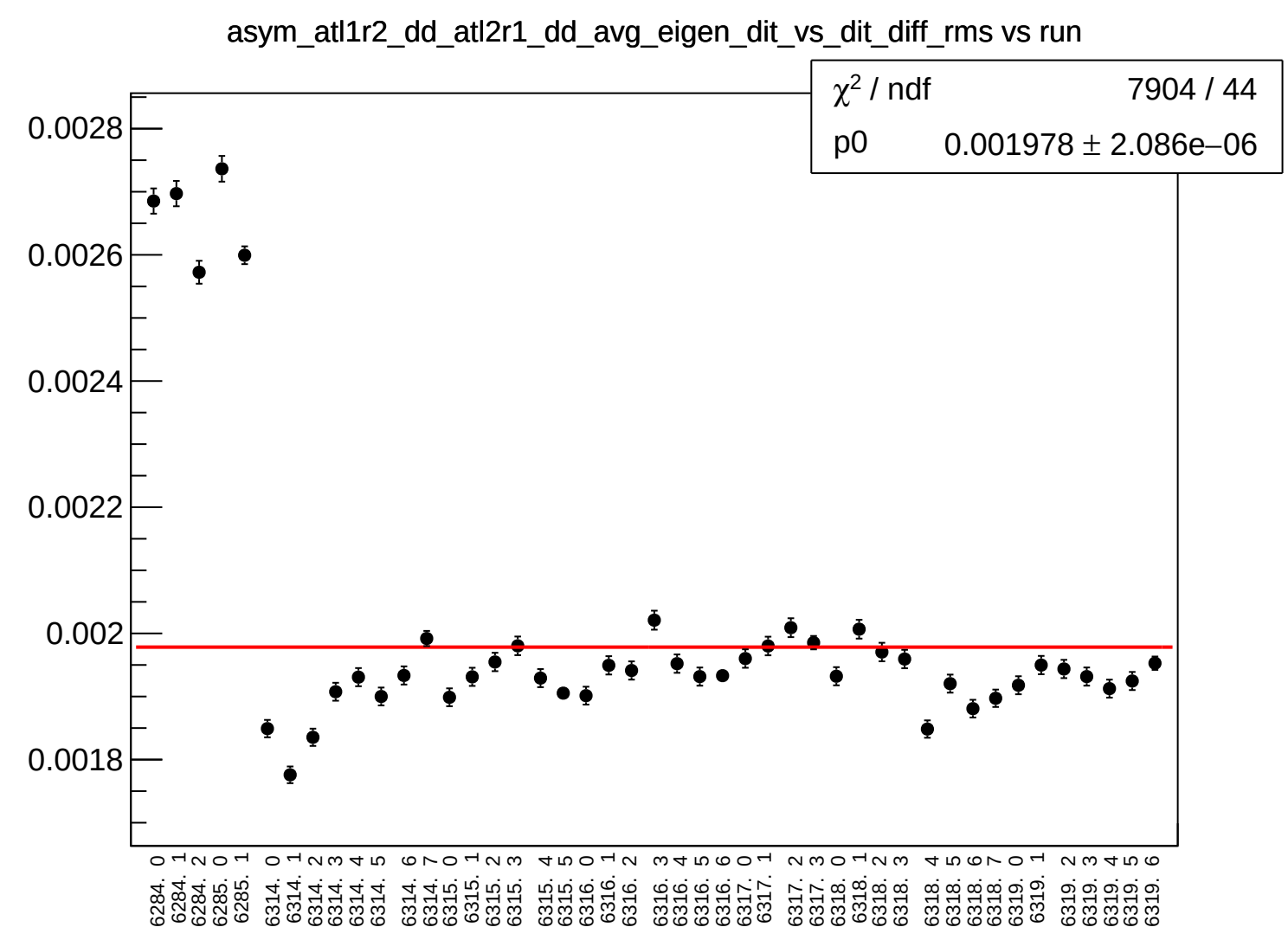
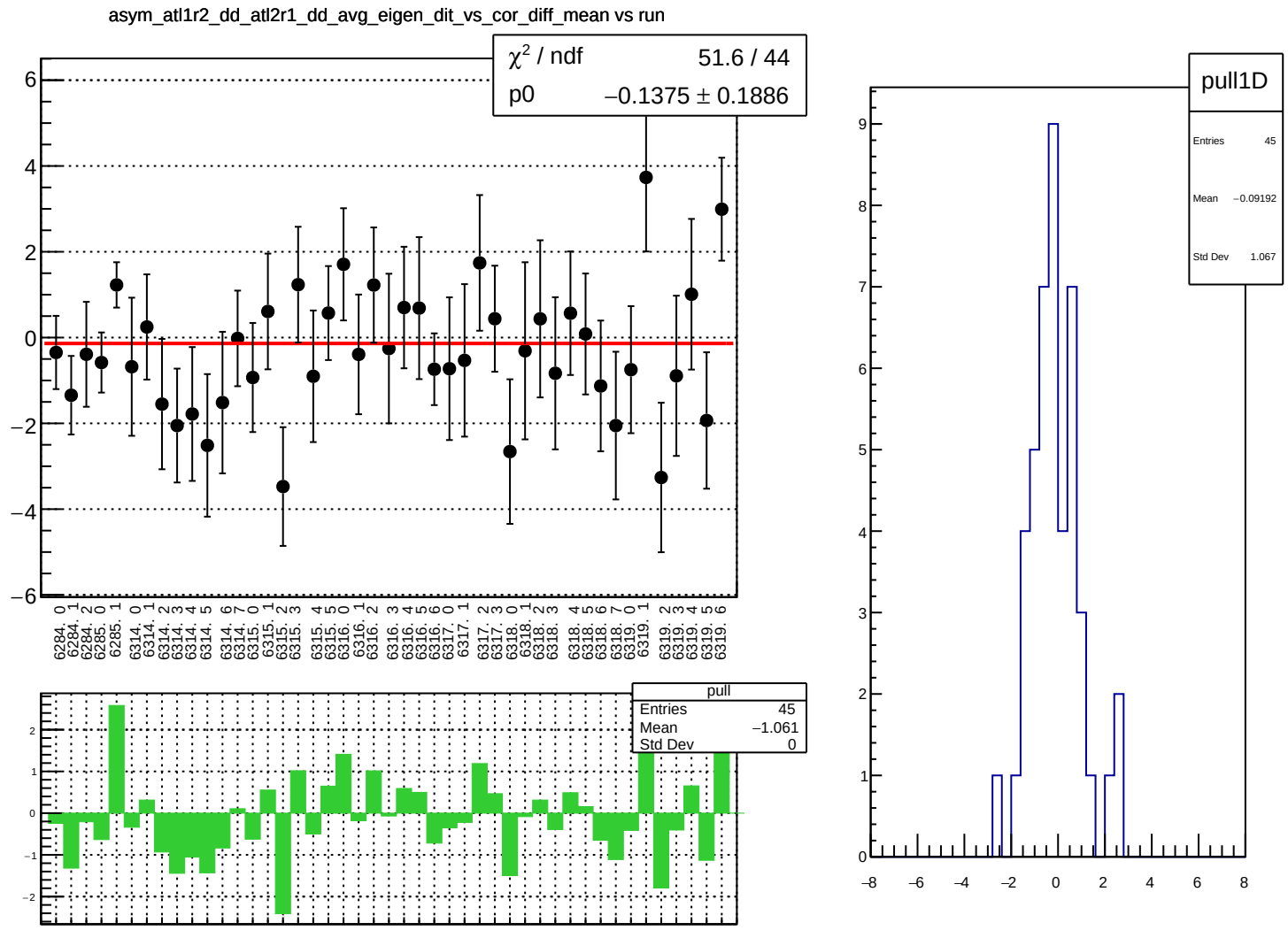
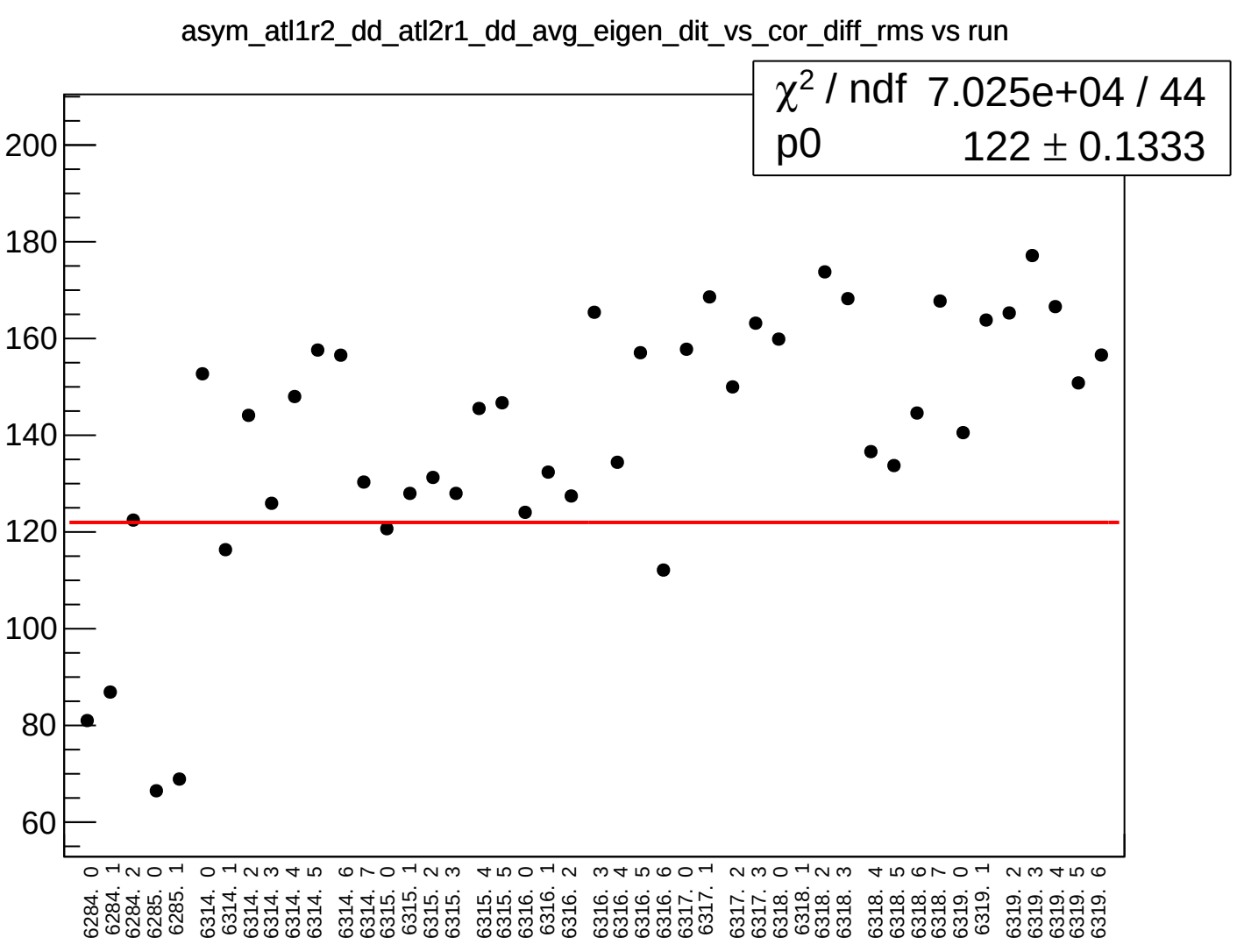
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.75 / 44
p0 −3.537e−06 ± 2.95e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −291.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.00722
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7904 / 44
p0 0.001978 ± 2.086e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.6 / 44
p0 −0.1375 ± 0.1886
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1.061
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.09192
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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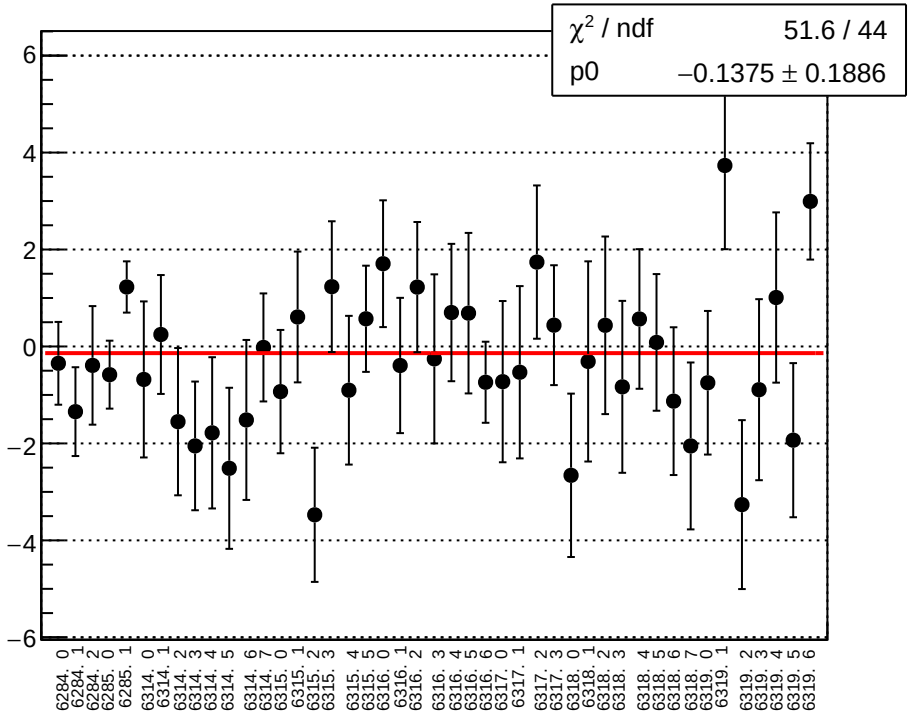
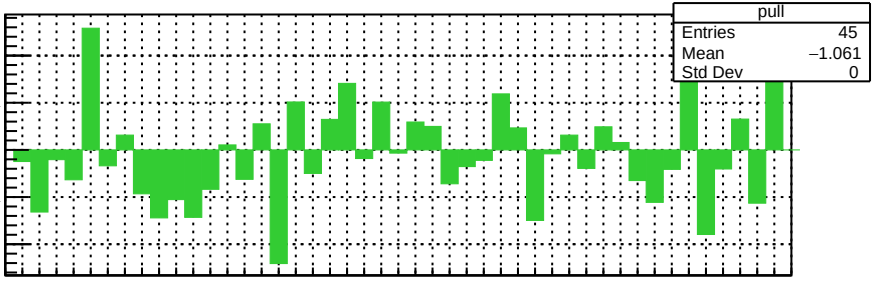
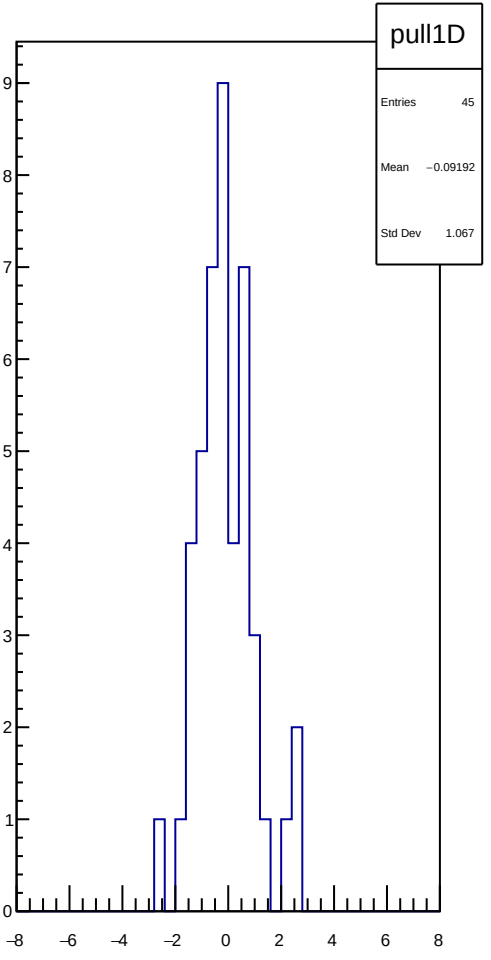
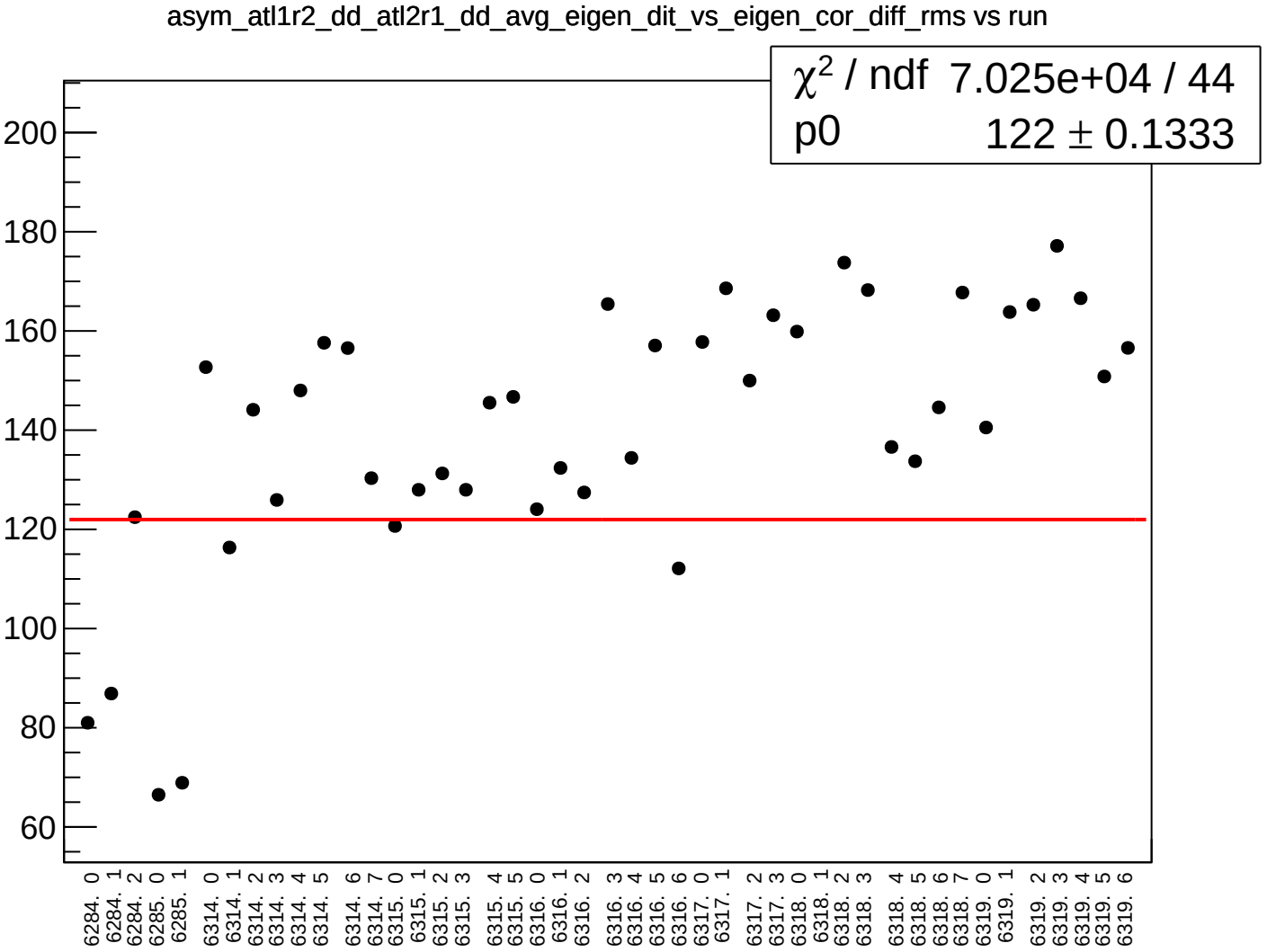
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

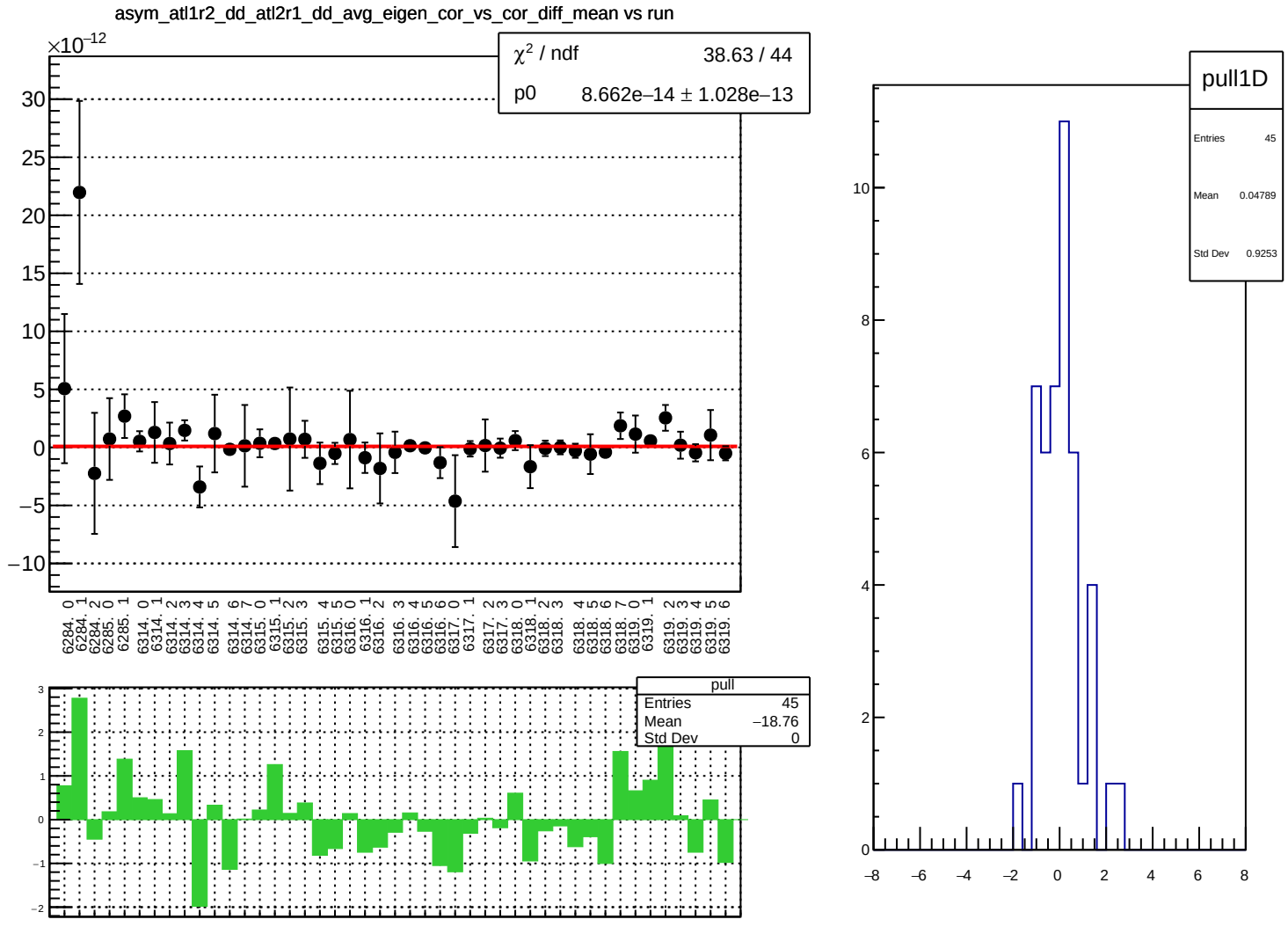
asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

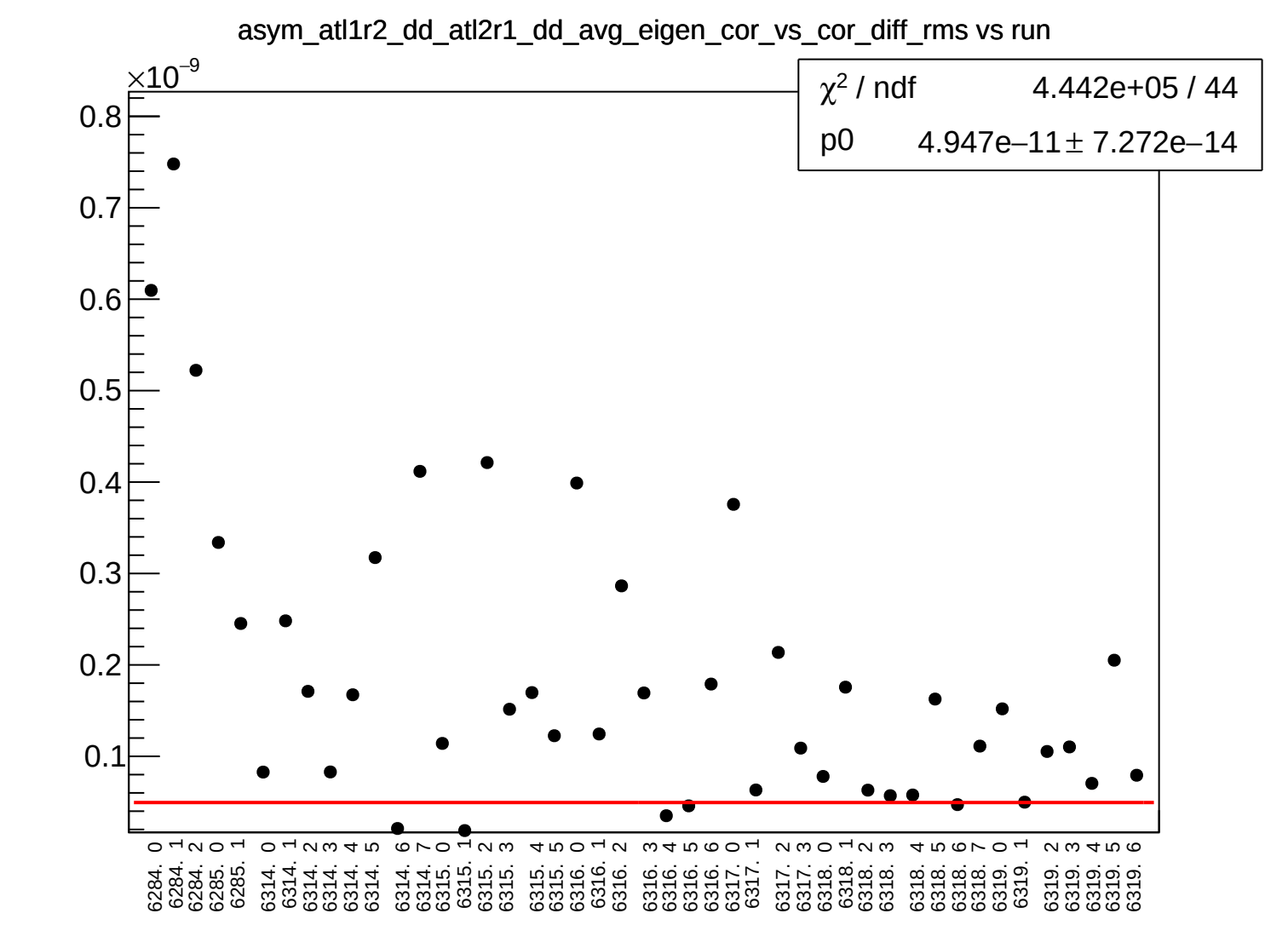







asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.025e+04 / 44
p0 122 ± 0.1333
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 38.63 / 44
p0 8.662e−14 ± 1.028e−13
30
25
20
15
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −18.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.04789
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.442e+05 / 44
p0 4.947e−11 ± 7.272e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
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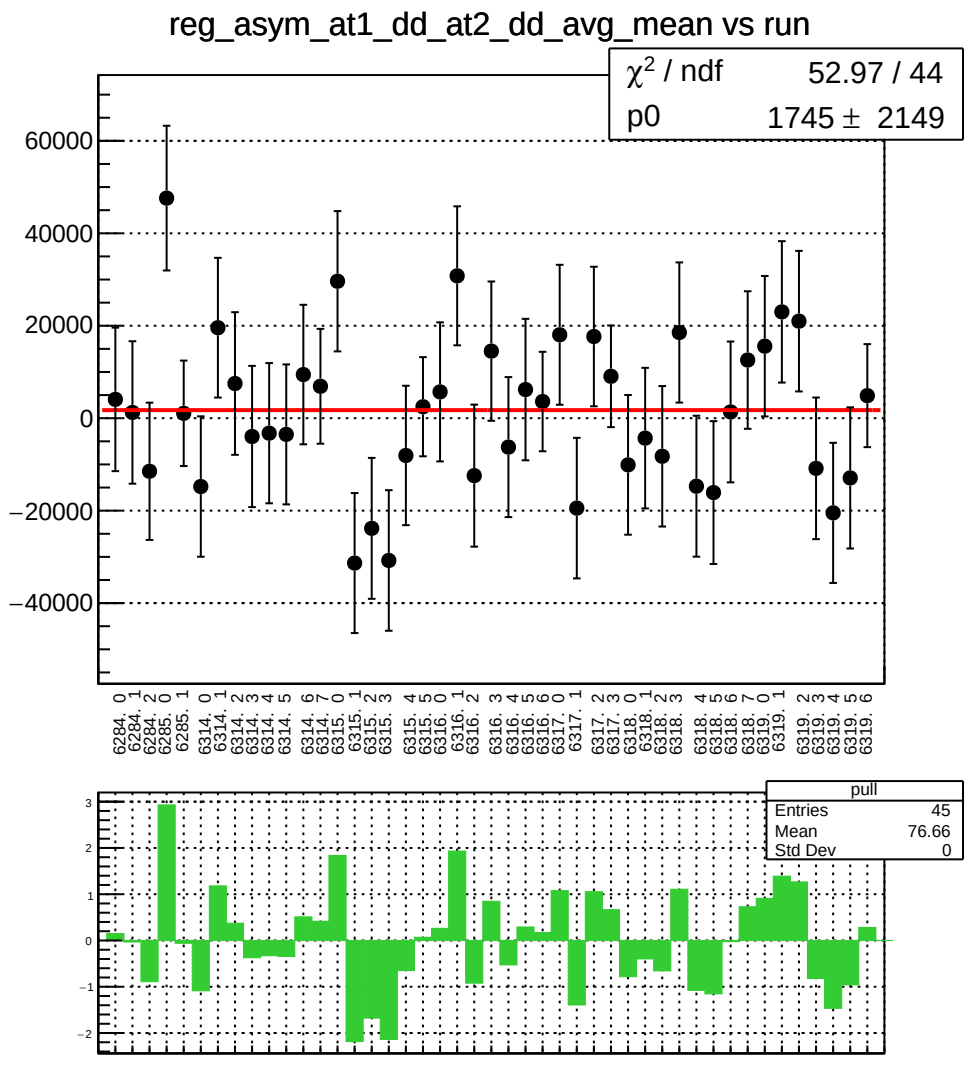
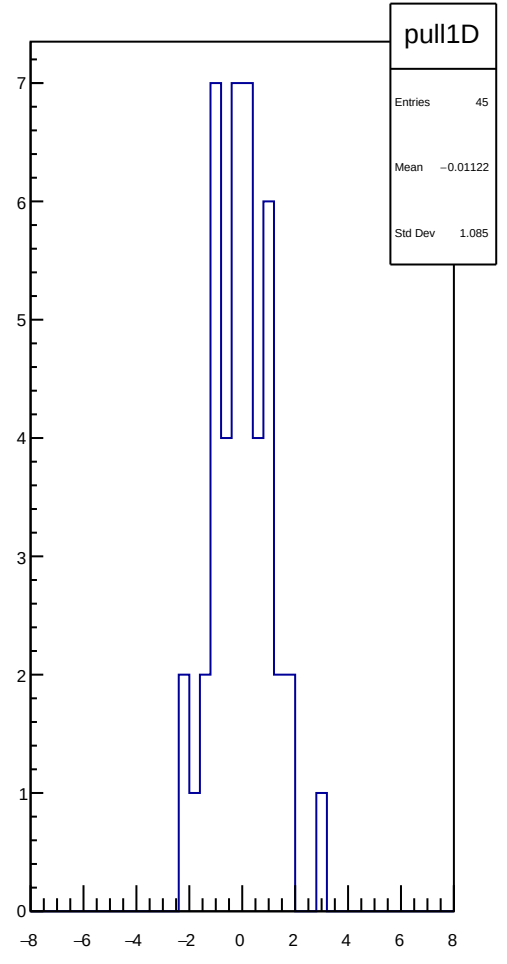
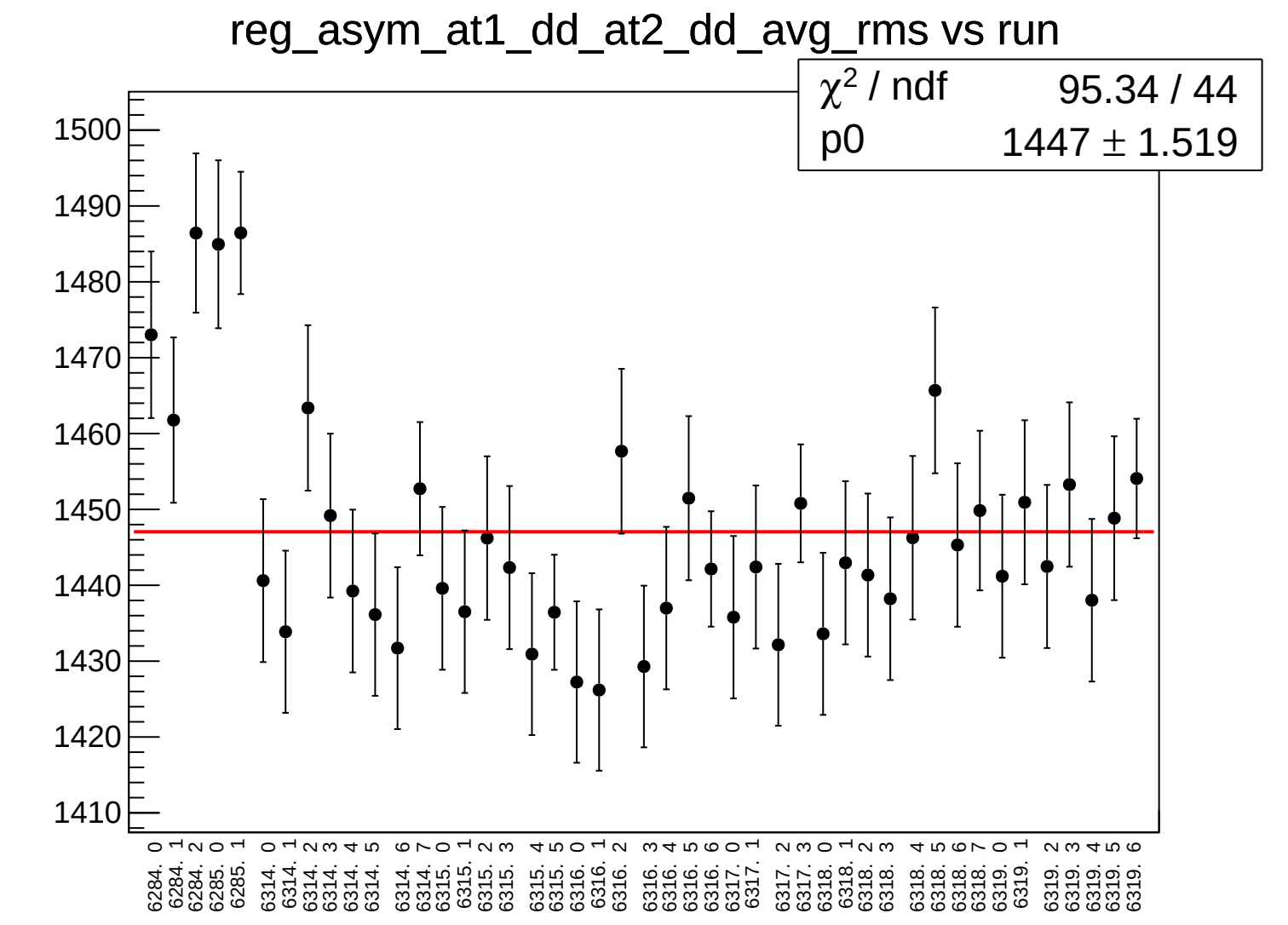
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 52.97 / 44
p0 1745 ± 2149
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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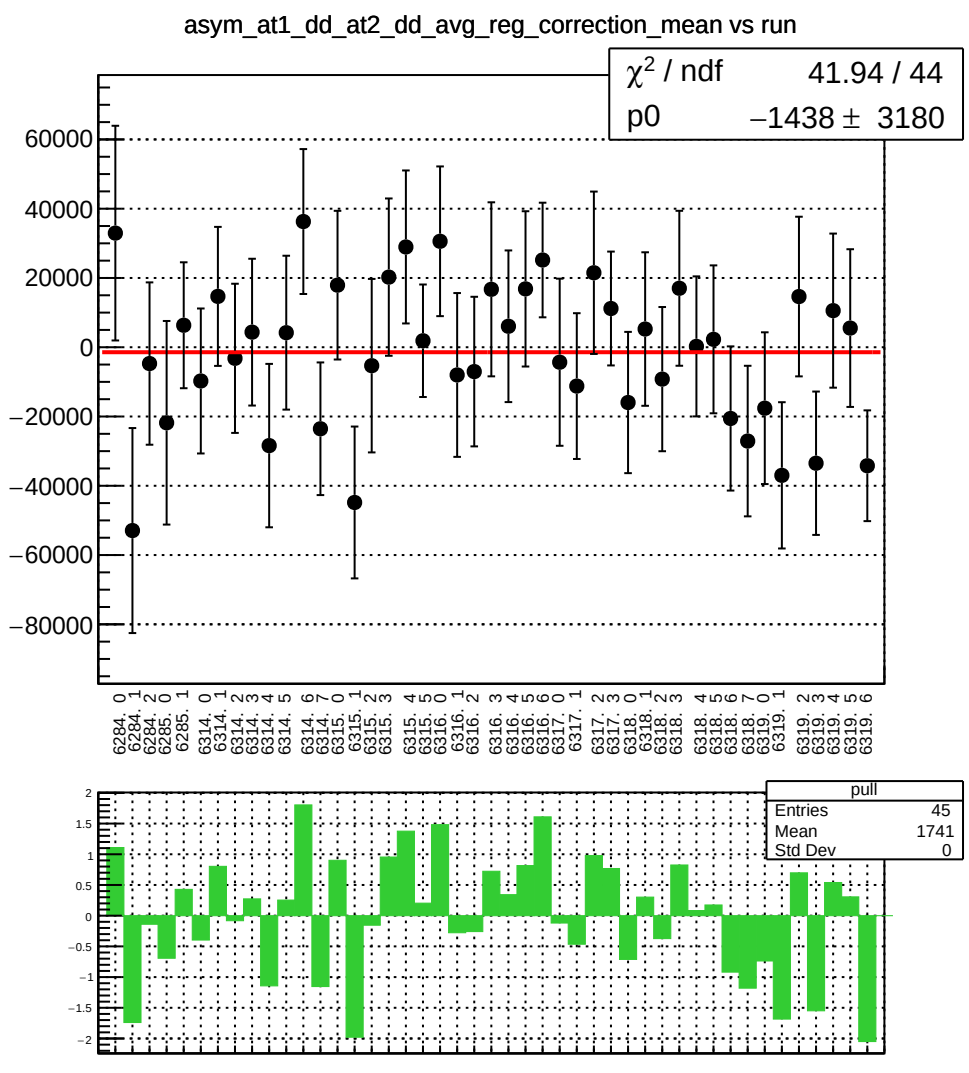
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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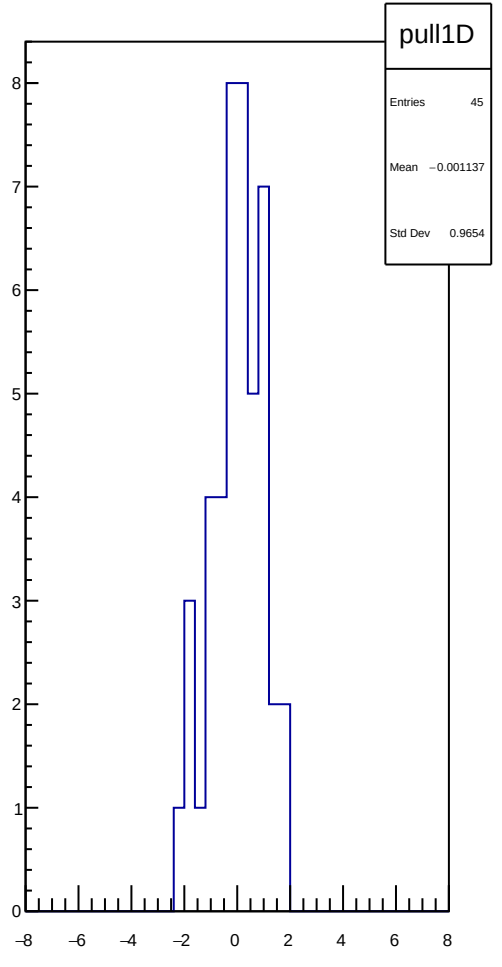
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1741
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001137
Std Dev 0.9654
8
7
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5
4
3
2
1
0
−8
−6
−4
−2
0
2
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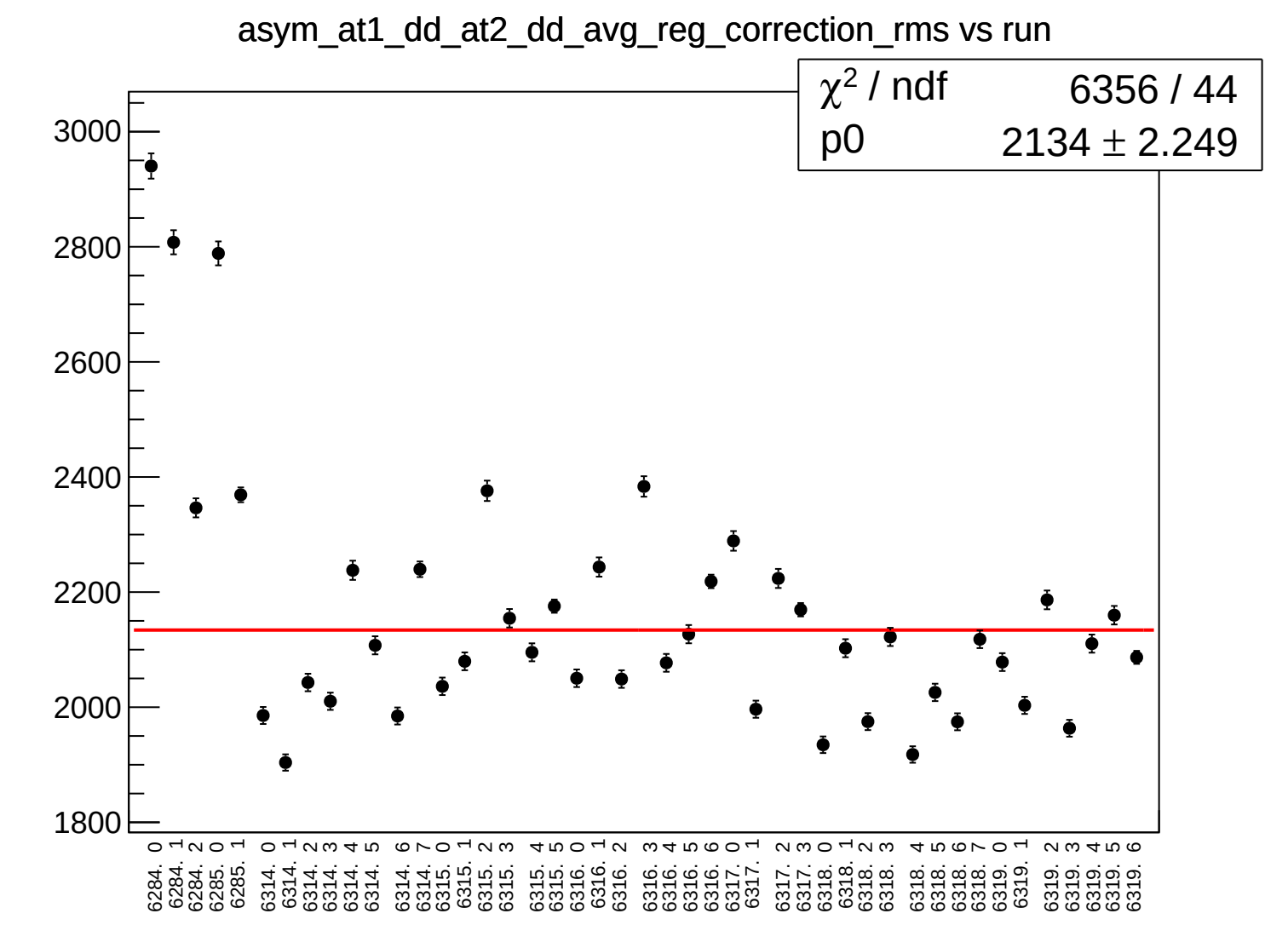
6
8


asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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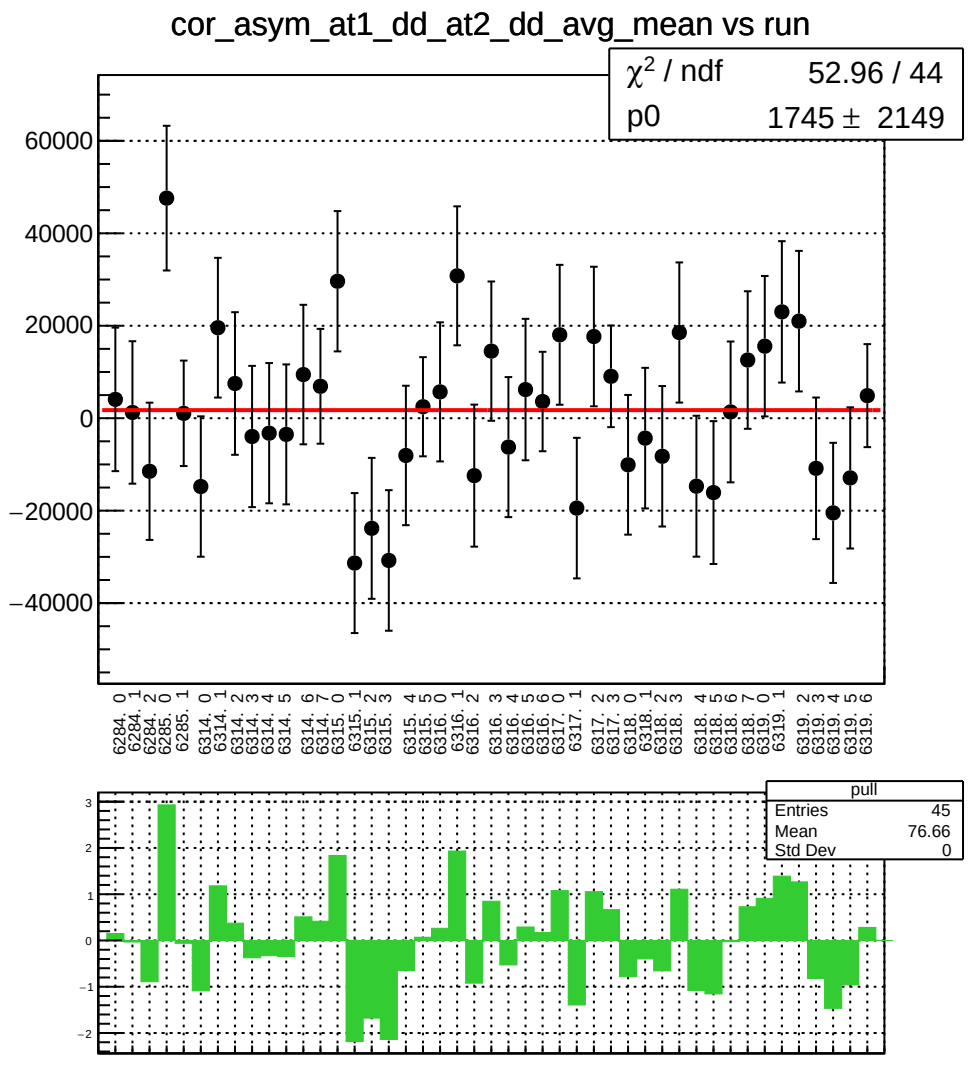
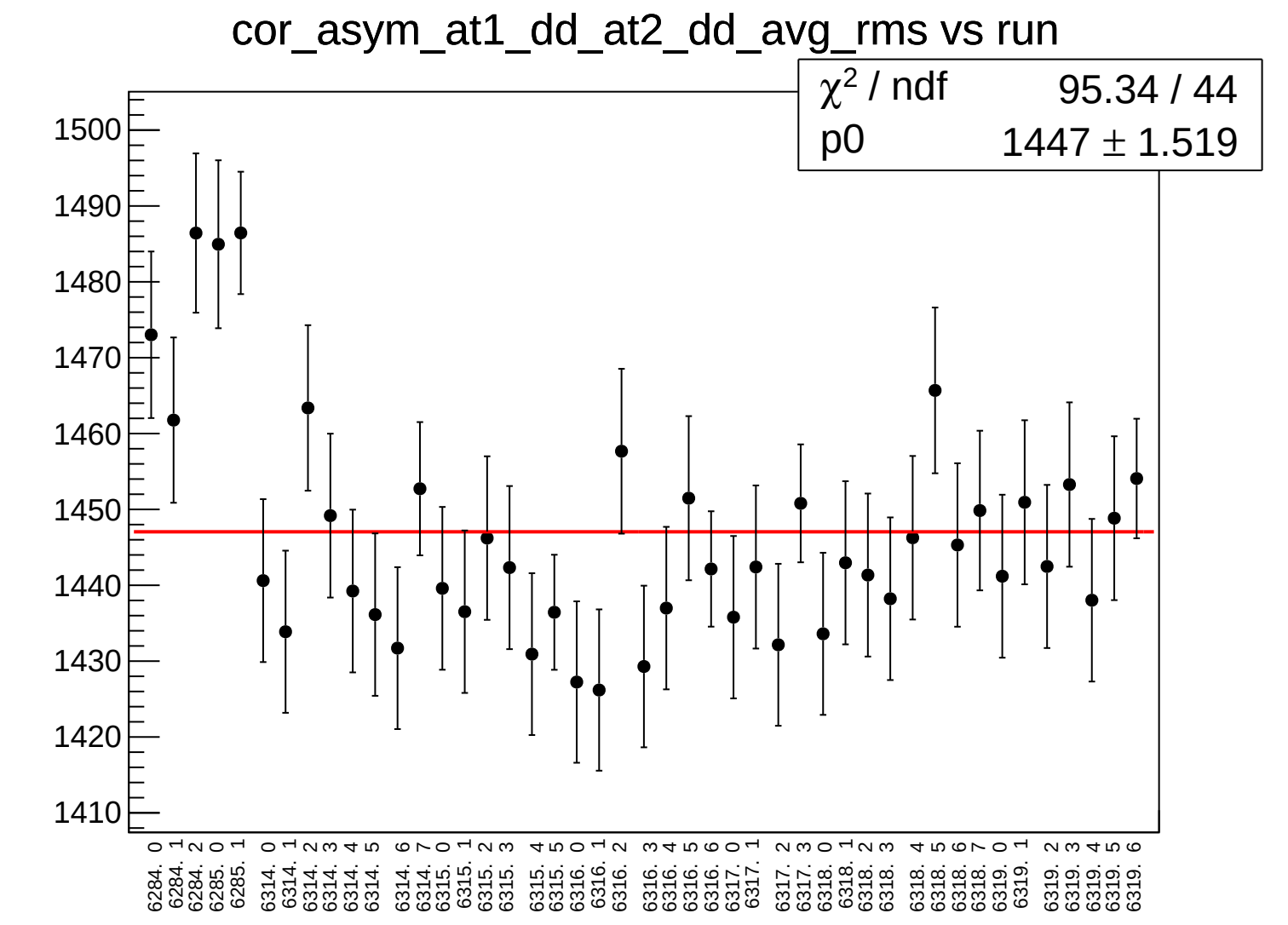
6319. 5
6319. 6


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 52.96 / 44
p0 1745 ± 2149
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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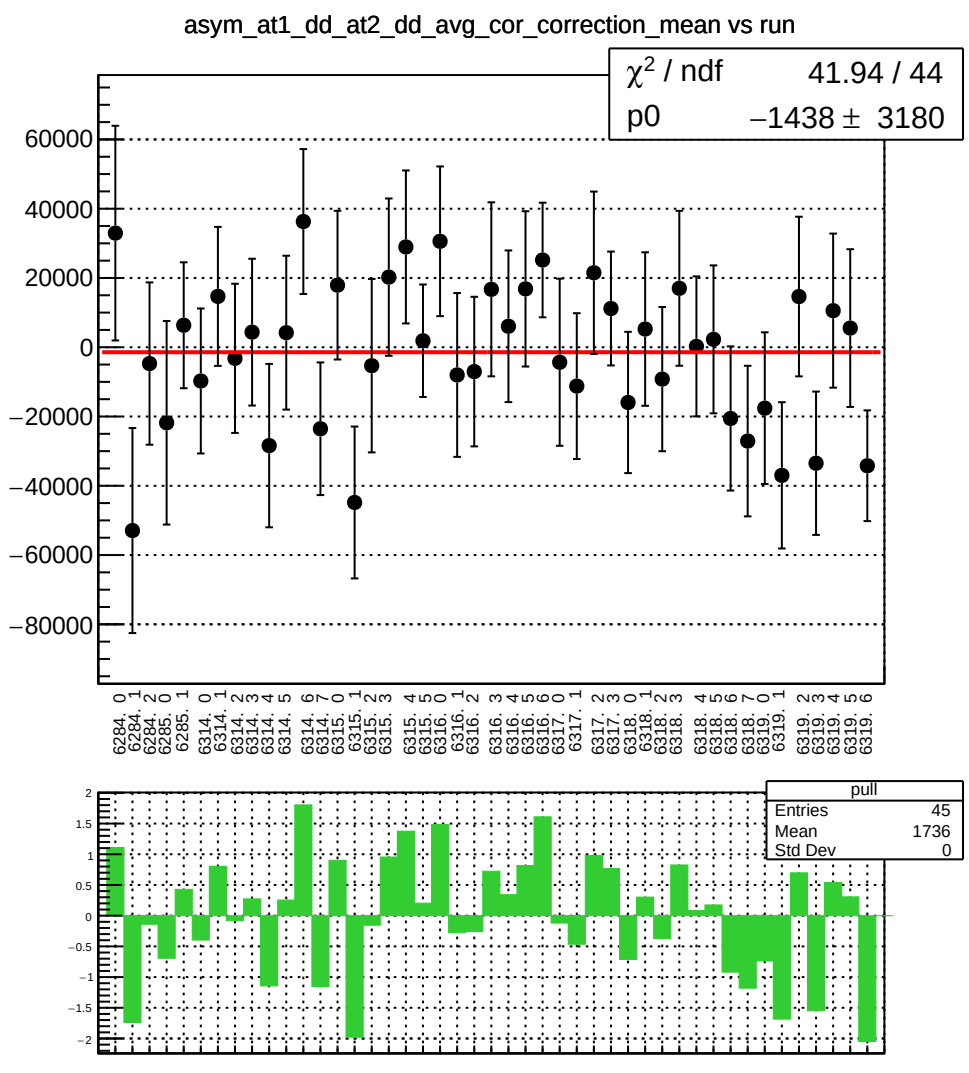
asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
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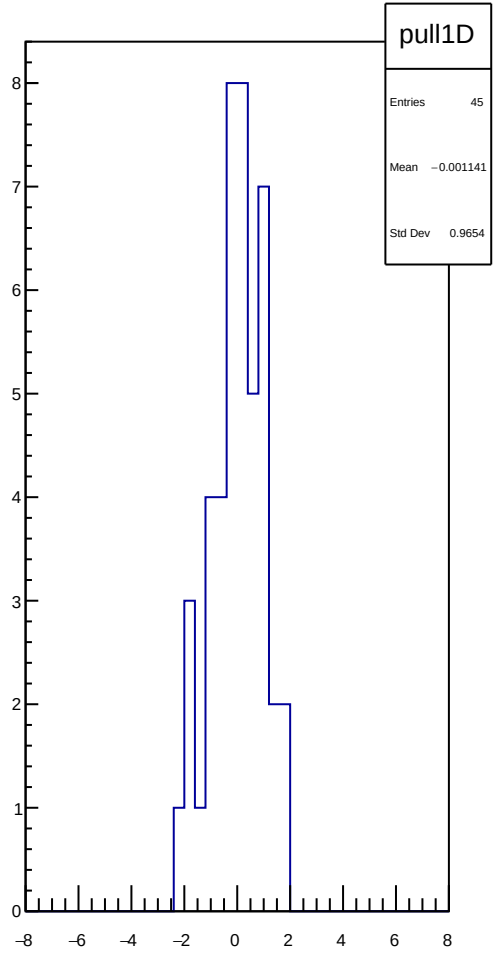
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1736
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001141
Std Dev 0.9654
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7
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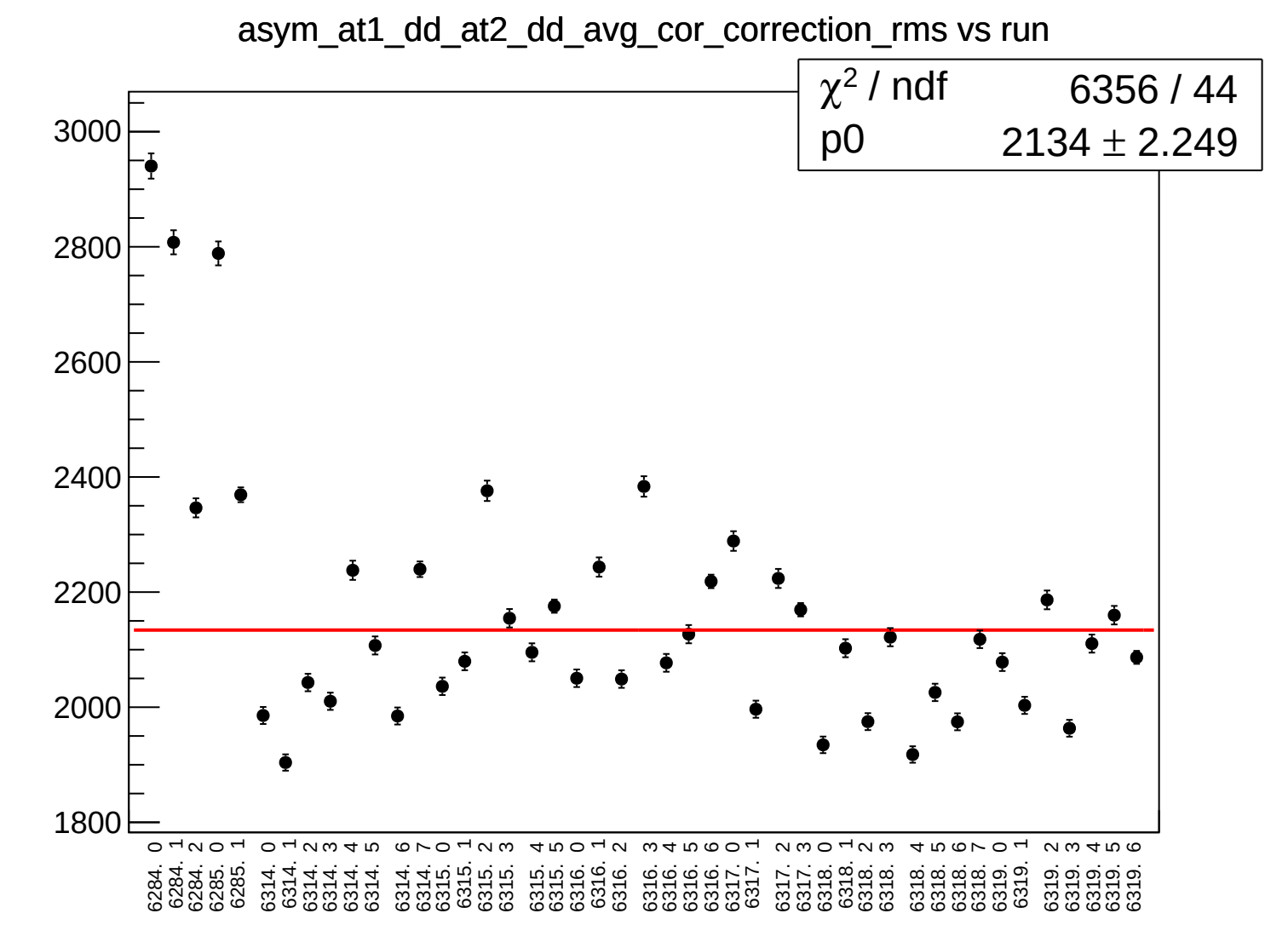
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6315. 5
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6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
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6318. 3
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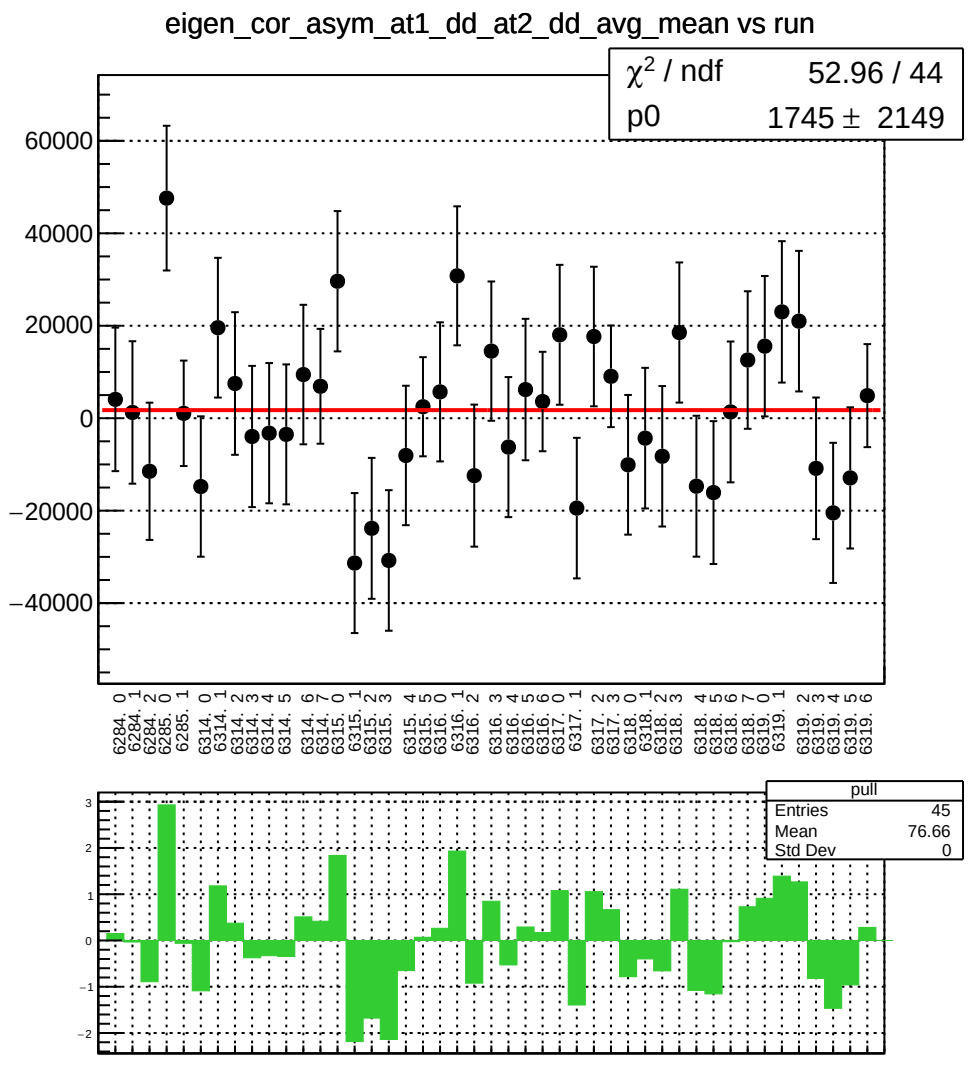
6319. 6


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 52.96 / 44
p0 1745 ± 2149
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6316. 0
6316. 1
6316. 2
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6316. 4
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6316. 6
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6317. 2
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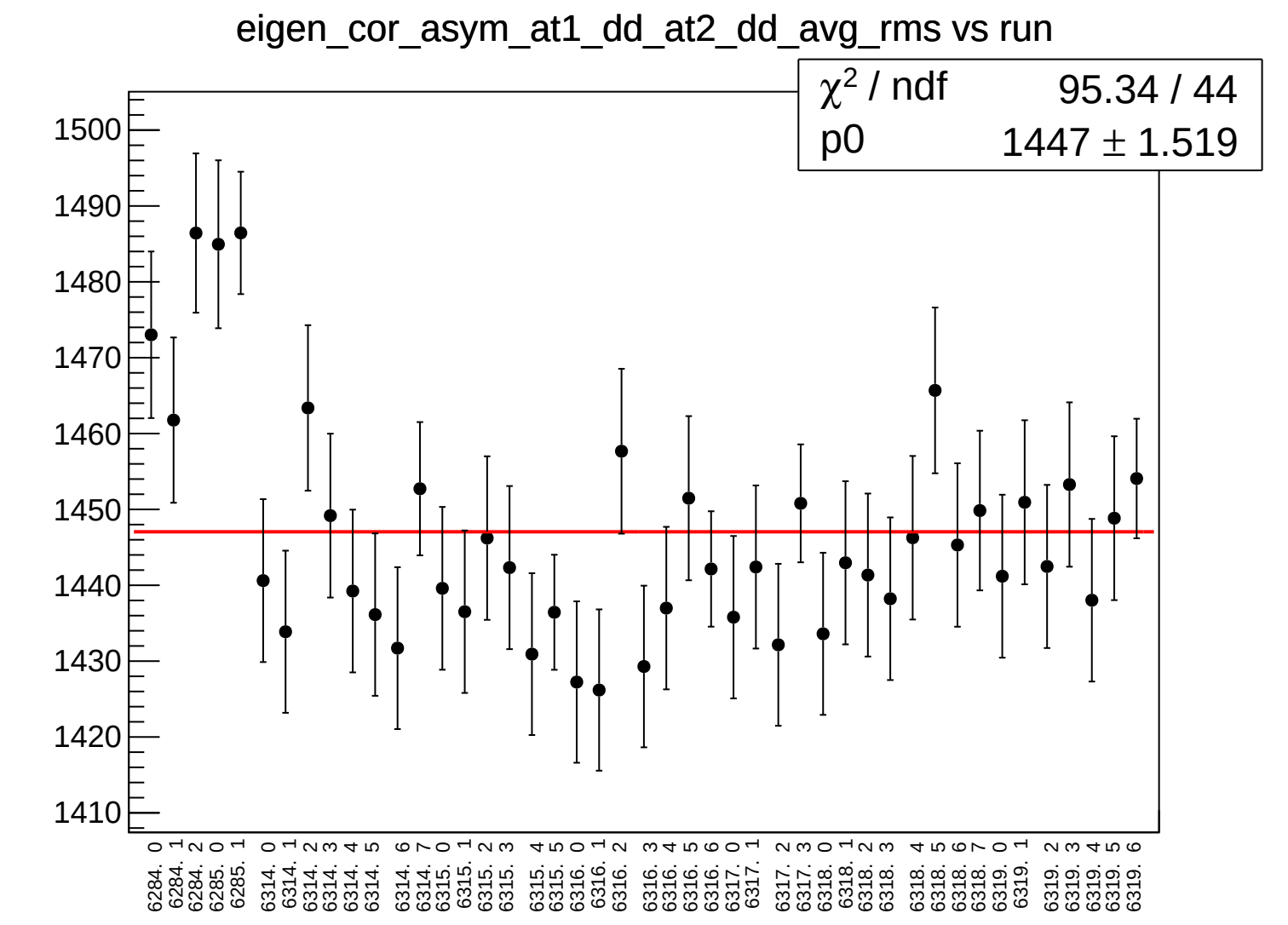
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01122
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.34 / 44
p0 1447 ± 1.519
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
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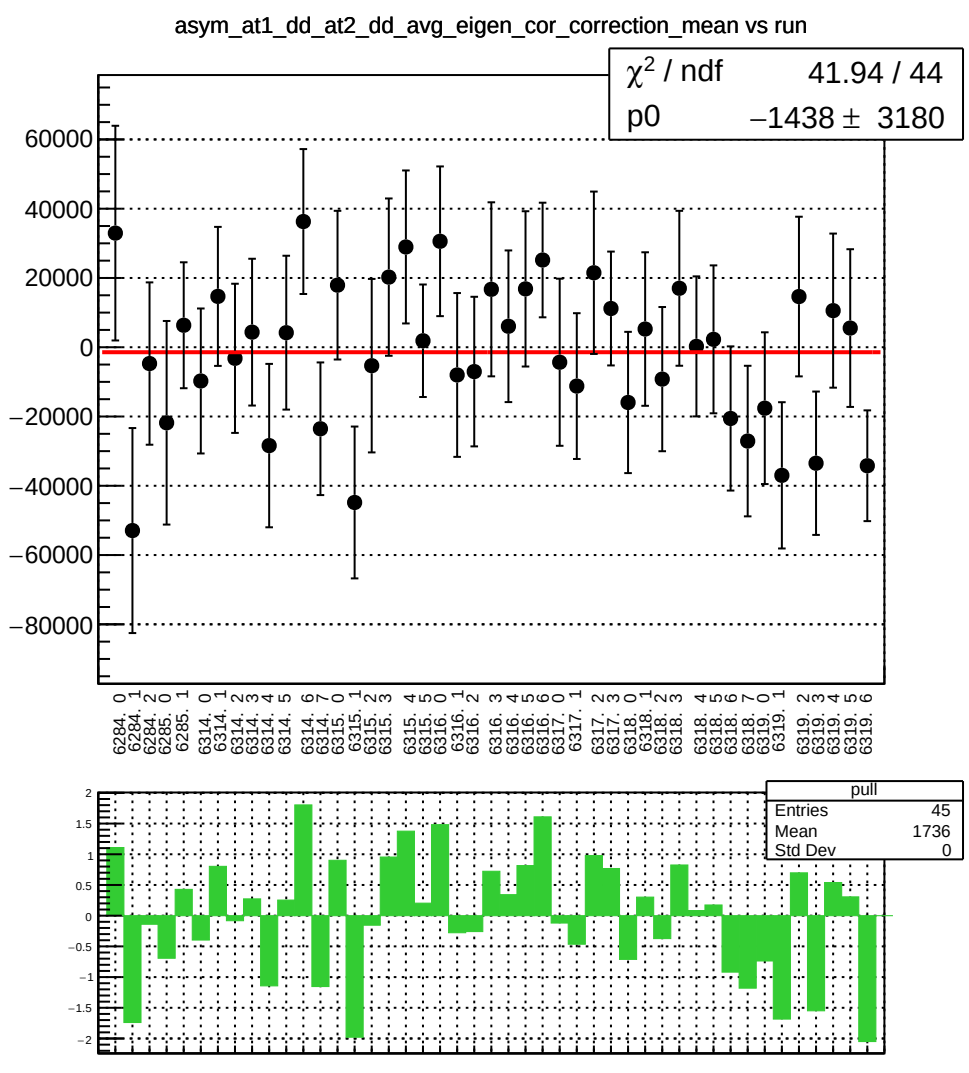
asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.94 / 44
p0 −1438 ± 3180
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 3
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6319. 5
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pull
Entries 45
Mean 1736
Std Dev 0
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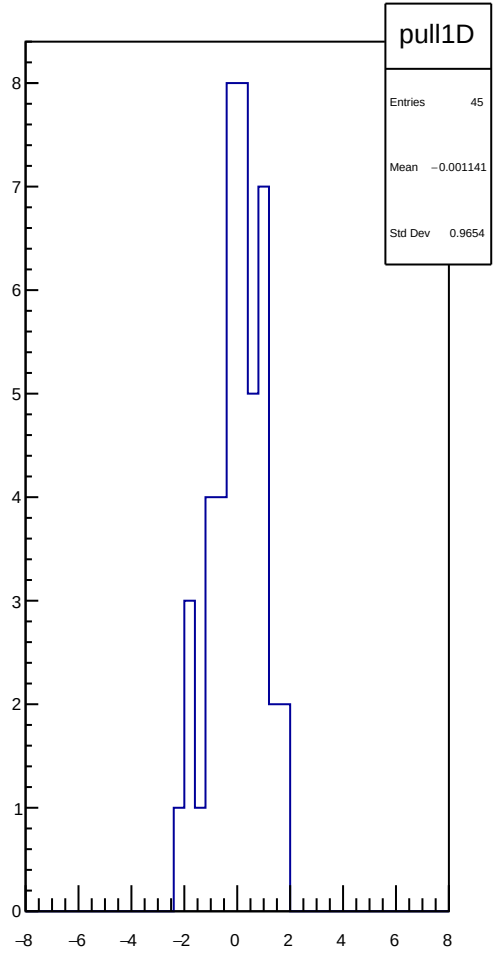
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001141
Std Dev 0.9654
8
7
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5
4
3
2
1
0
−8
−6
−4
−2
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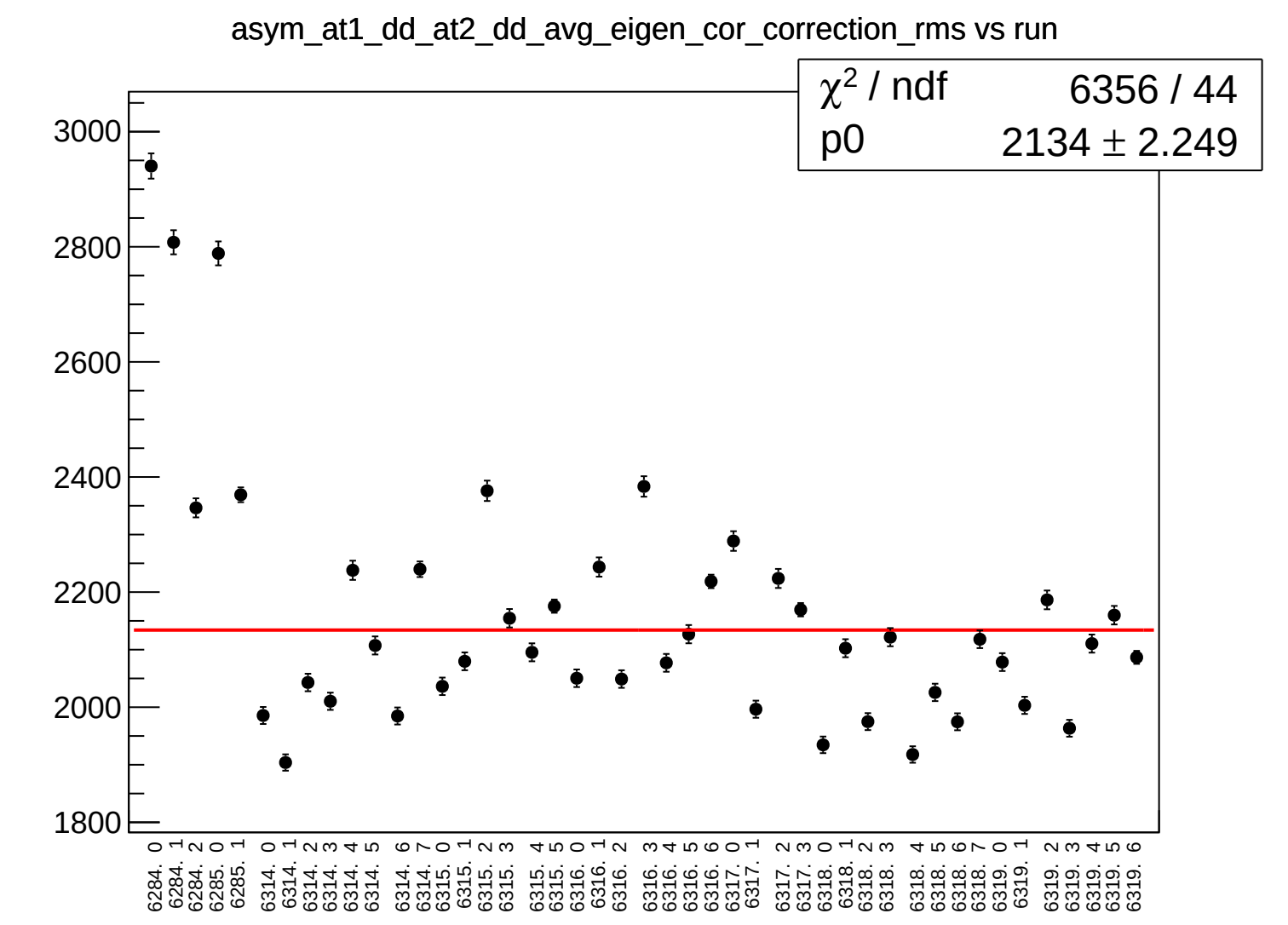
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6356 / 44
p0 2134 ± 2.249
3000
2800
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6315. 0
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
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6319. 0
6319. 1
6319. 2
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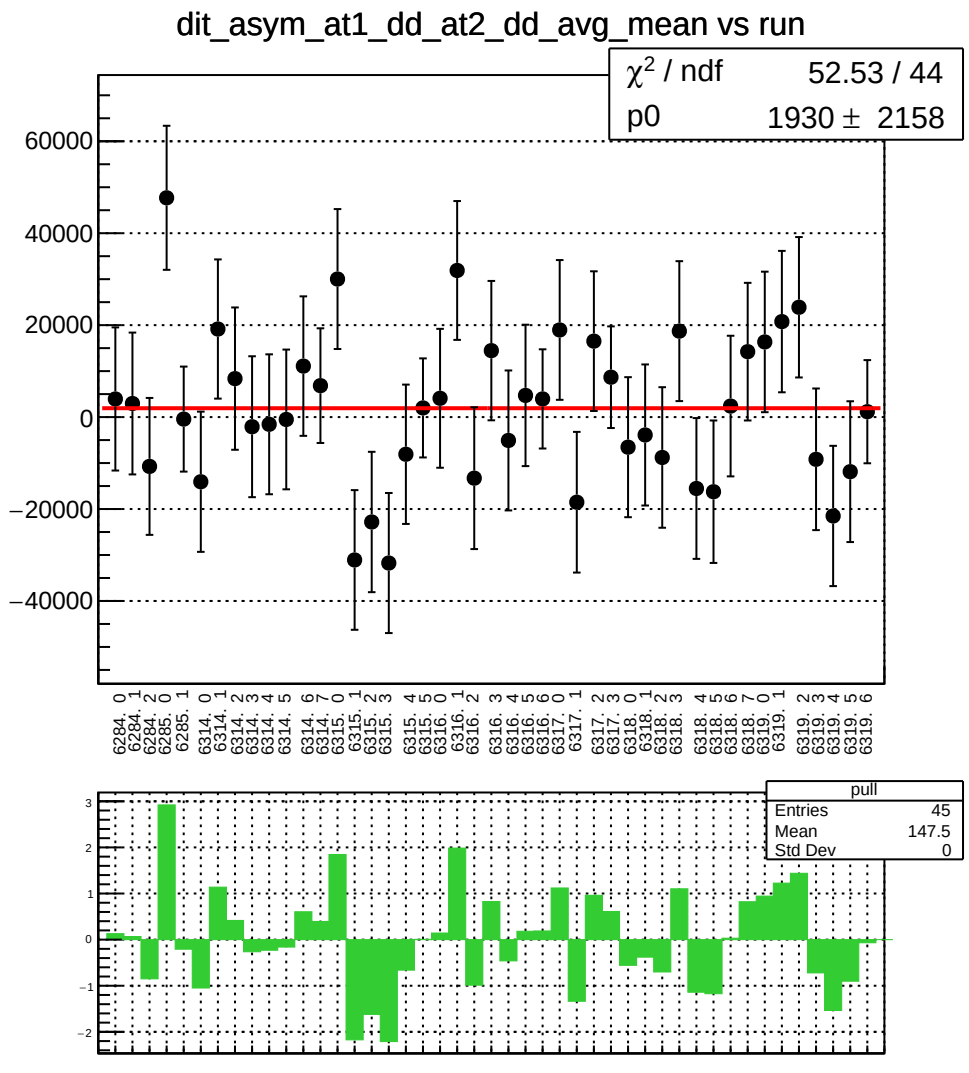
6319. 4
6319. 5
6319. 6


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 52.53 / 44
p0 1930 ± 2158
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6315. 1
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6315. 4
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6316. 0
6316. 1
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6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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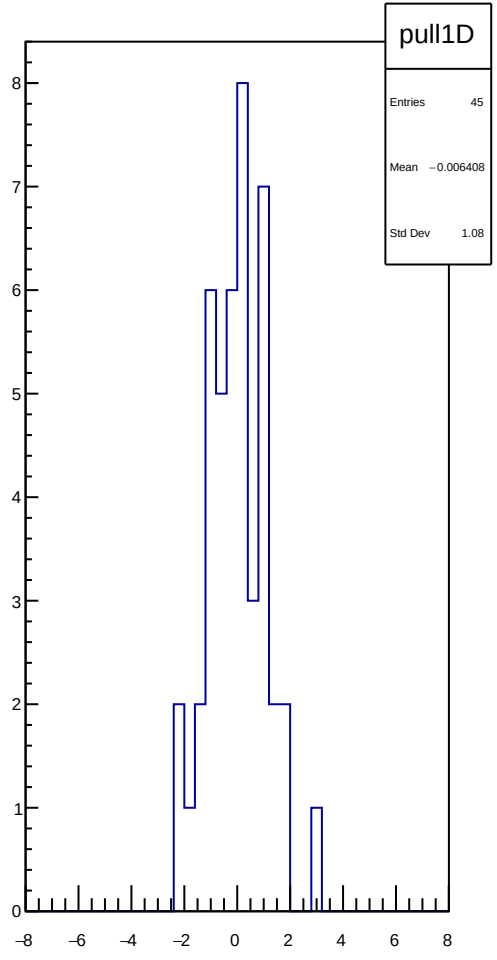
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.006408
Std Dev 1.08
8
7
6
5
4
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1
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−4
−2
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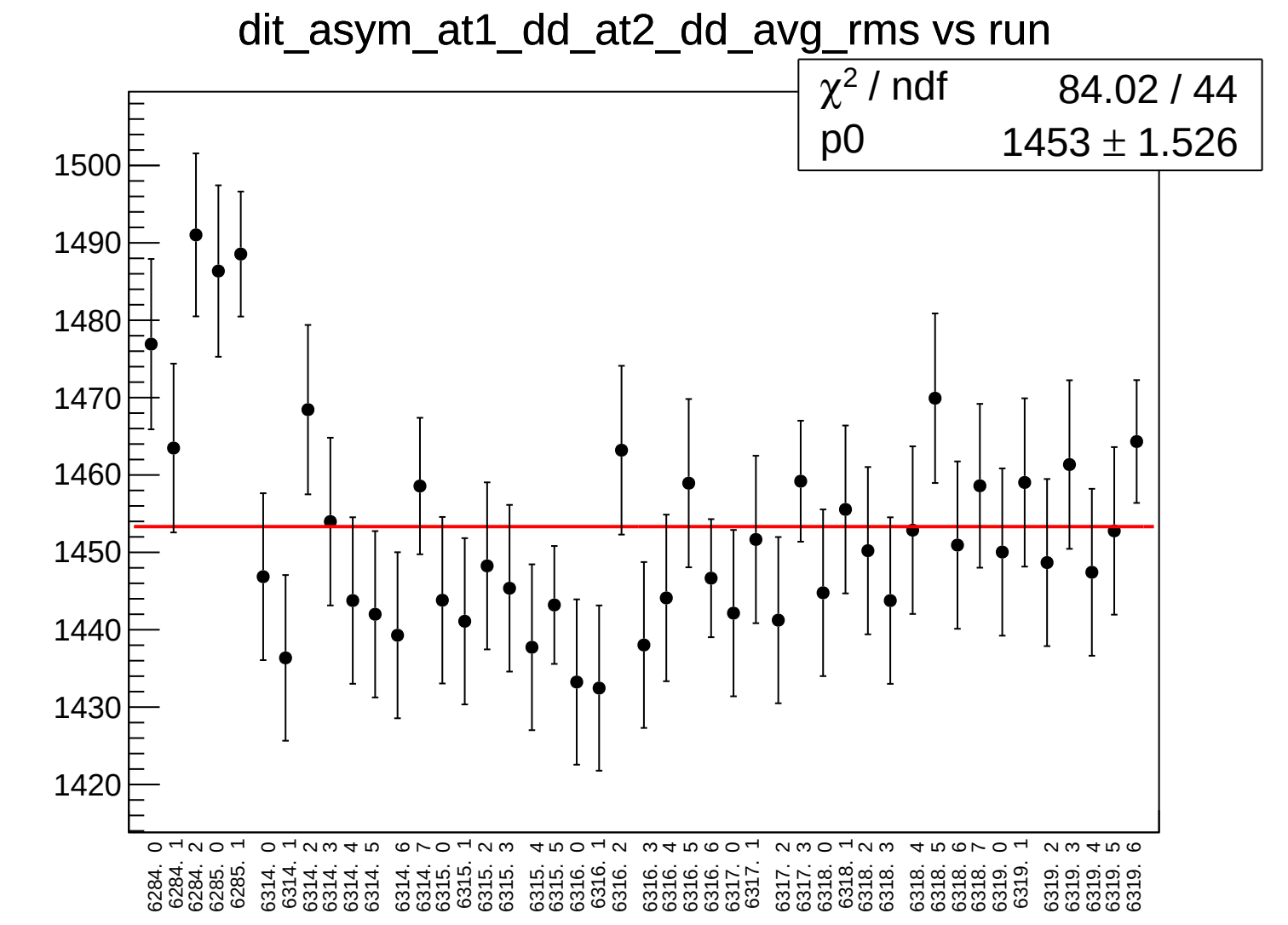
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 84.02 / 44
p0 1453 ± 1.526
1500
1490
1480
1470
1460
1450
1440
1430
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
6319. 3
6319. 4
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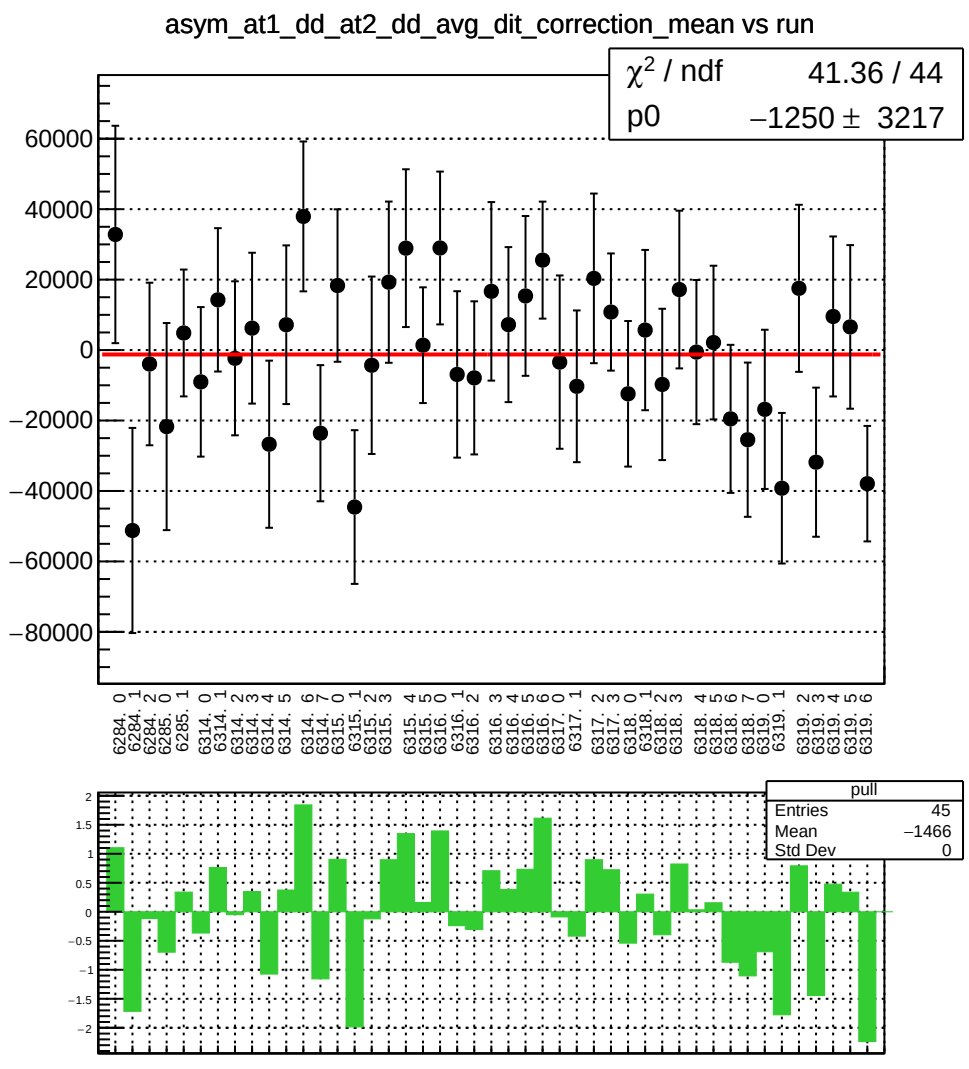
6319. 6


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 41.36 / 44
p0 −1250 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 6
6314. 7
6315. 0
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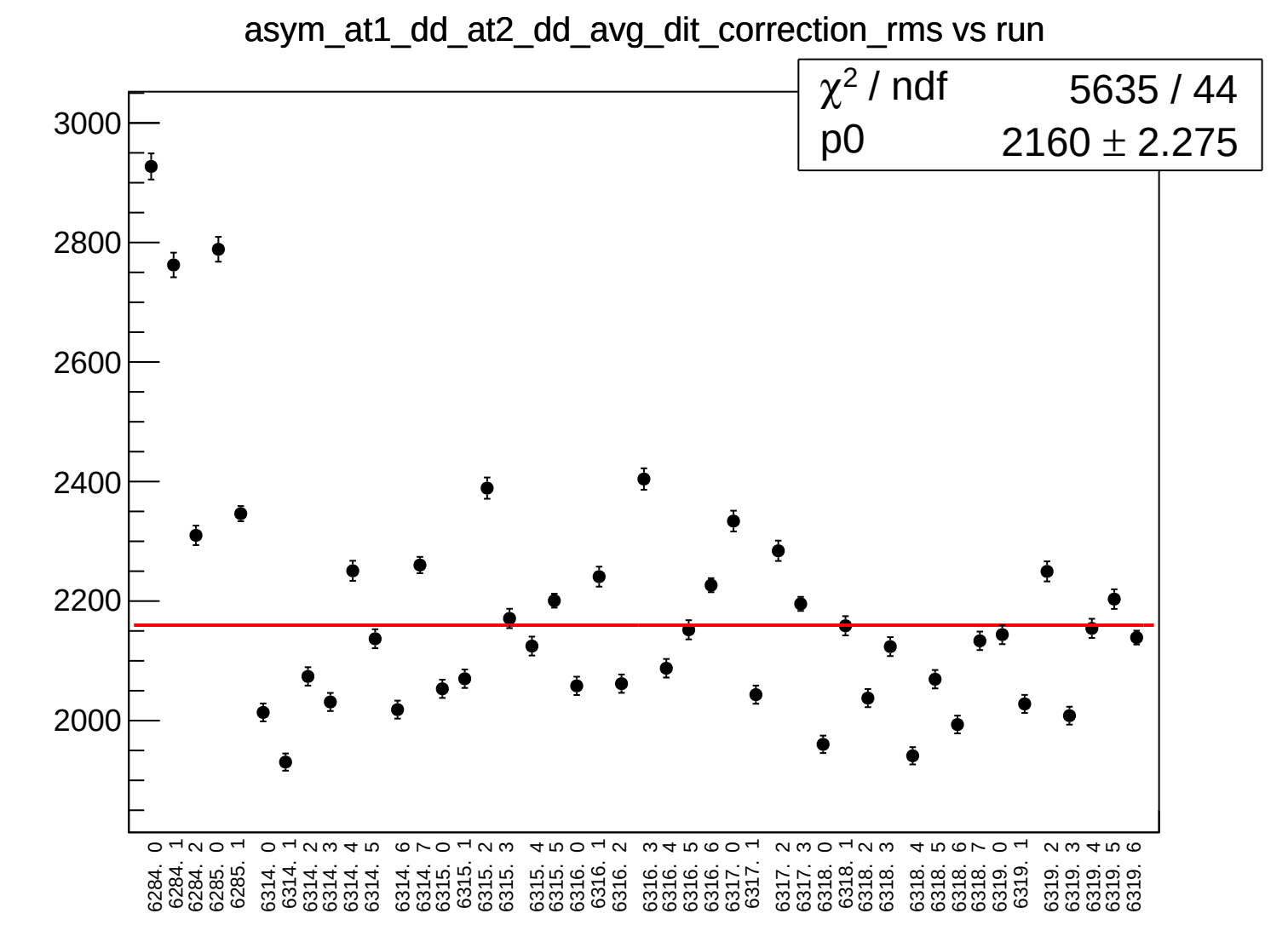
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1466
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001357
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 5635 / 44
p0 2160 ± 2.275
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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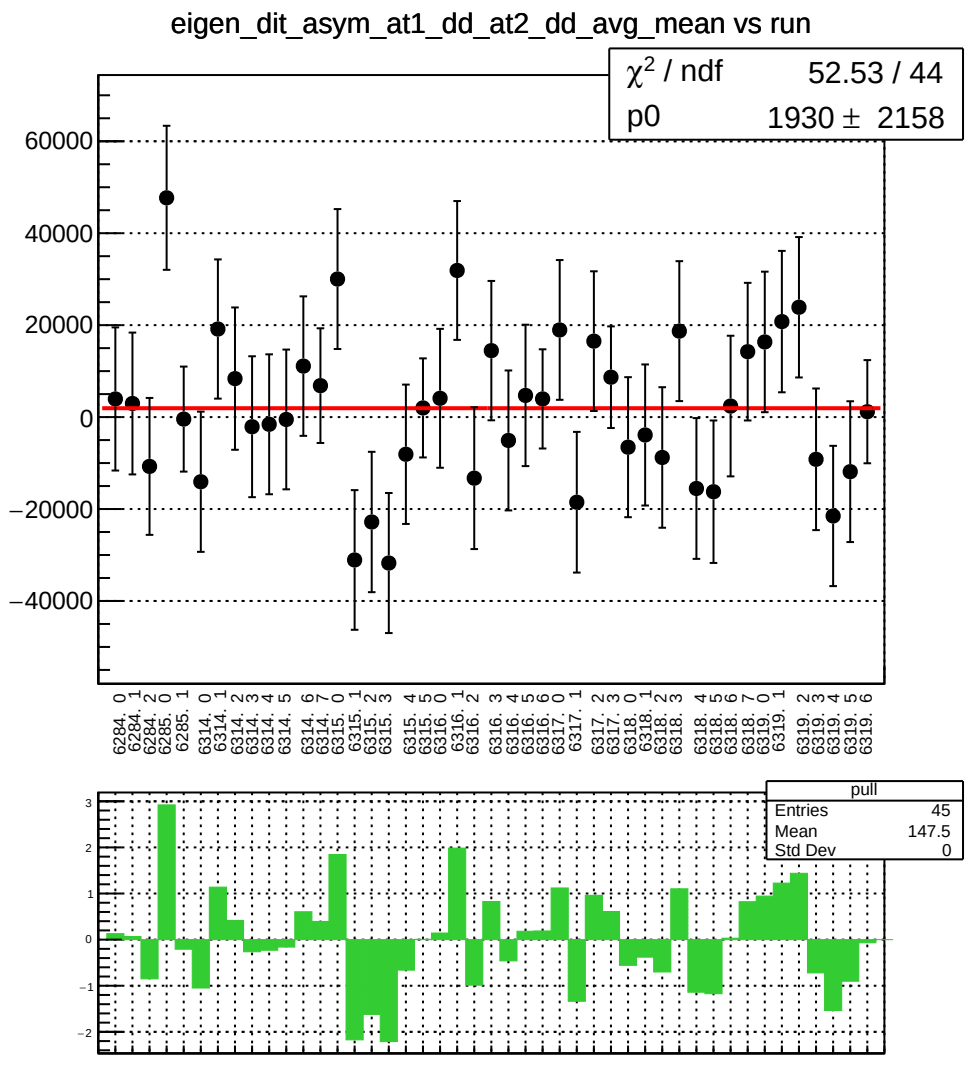
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 52.53 / 44
p0 1930 ± 2158
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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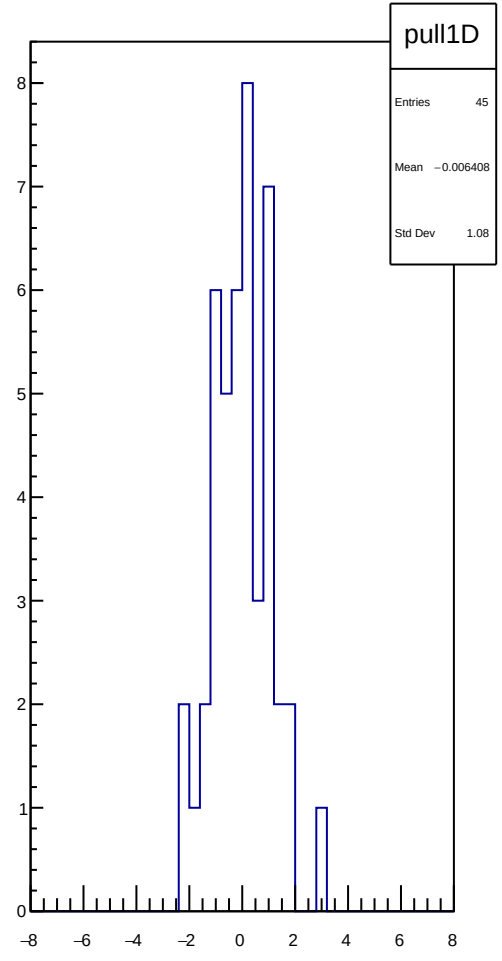
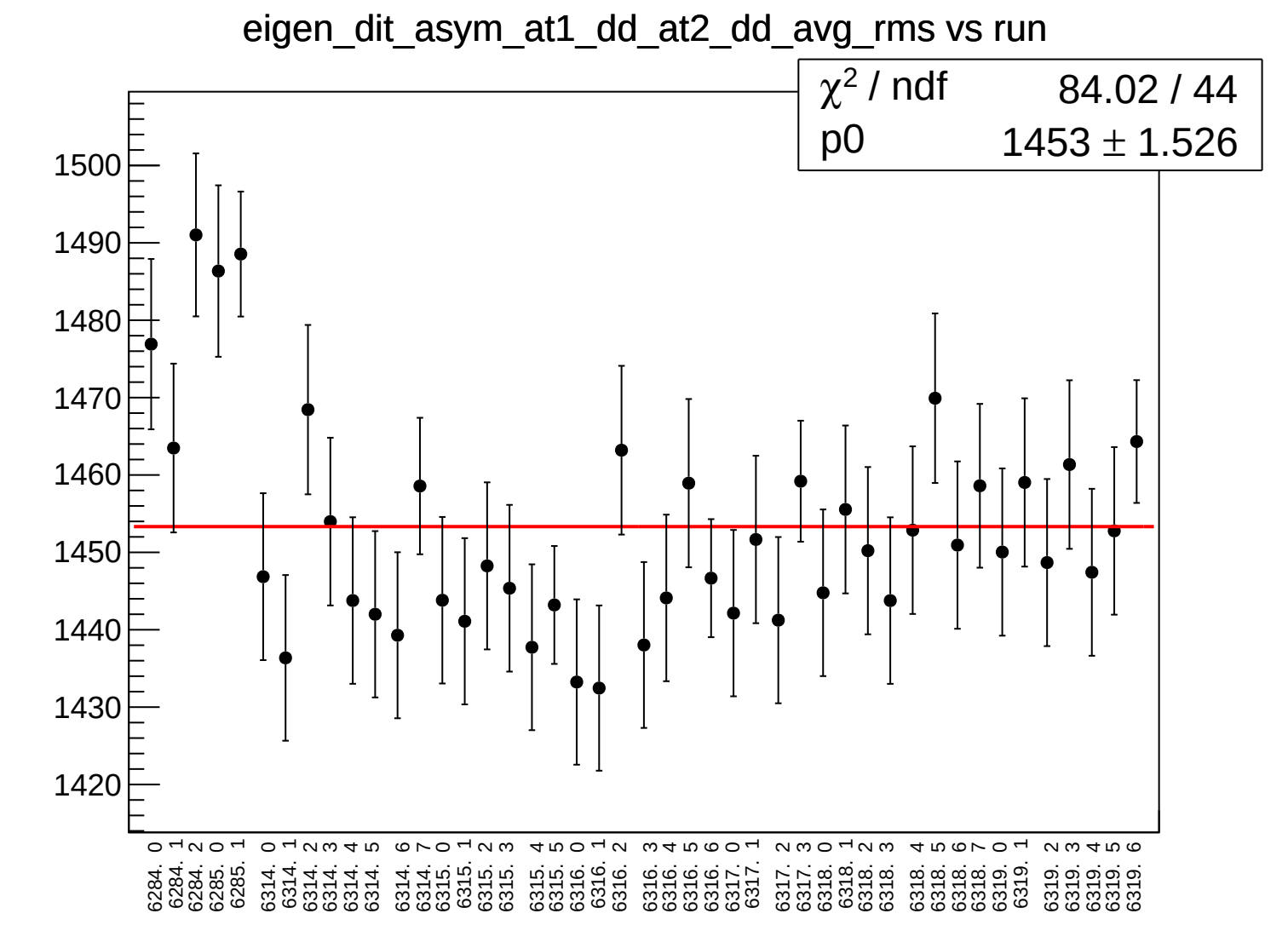
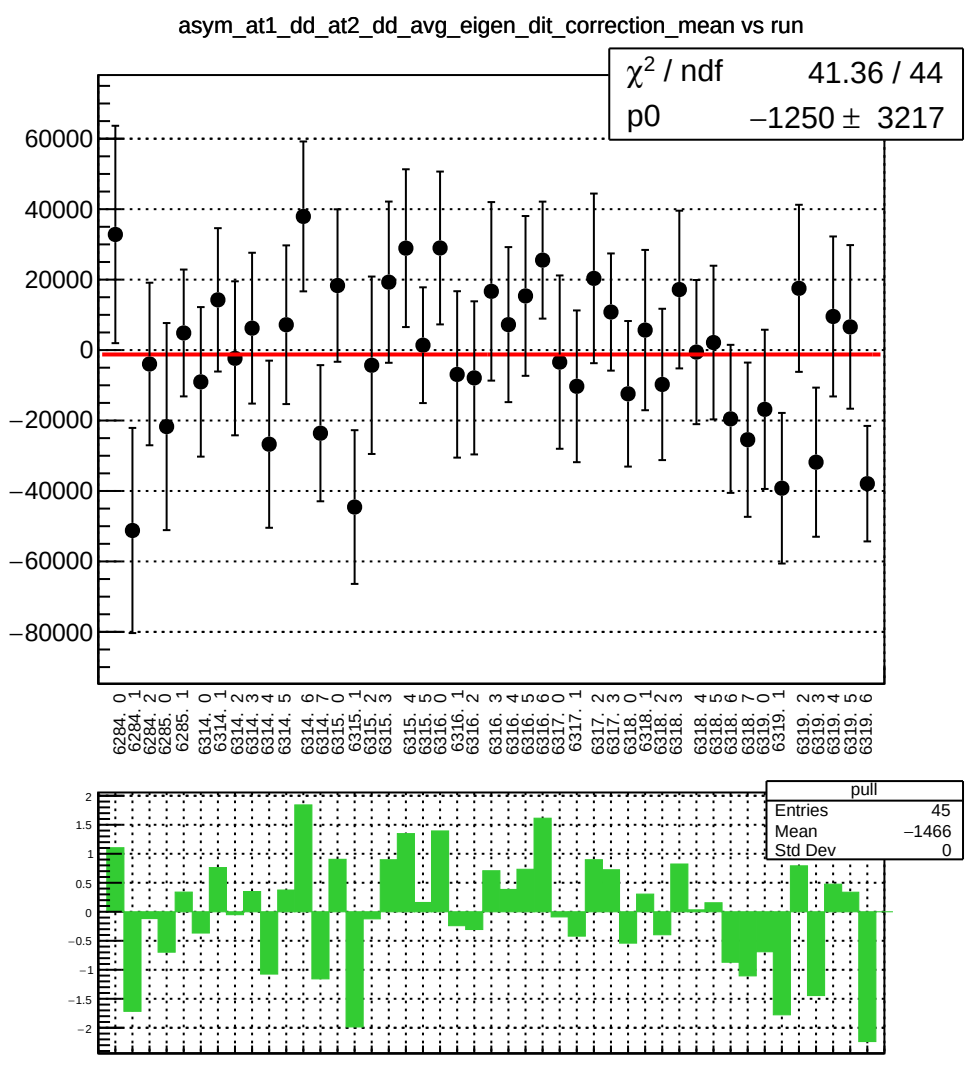
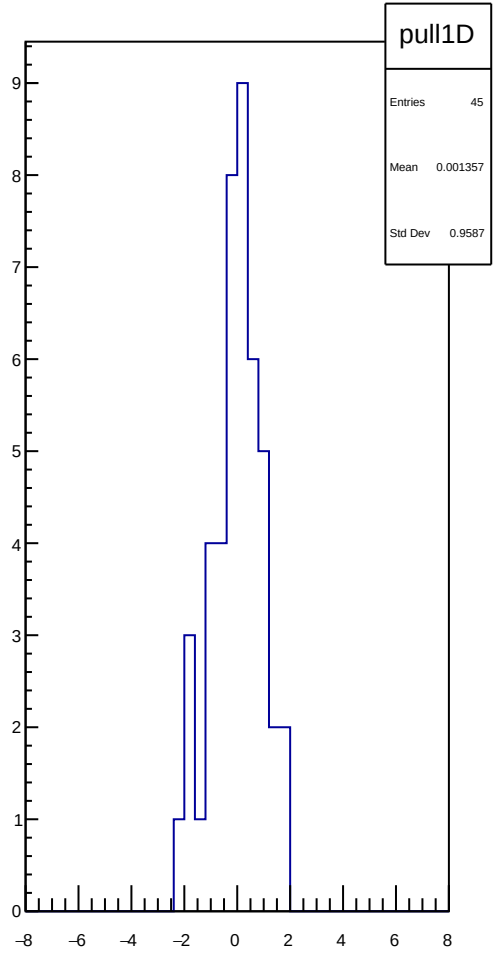
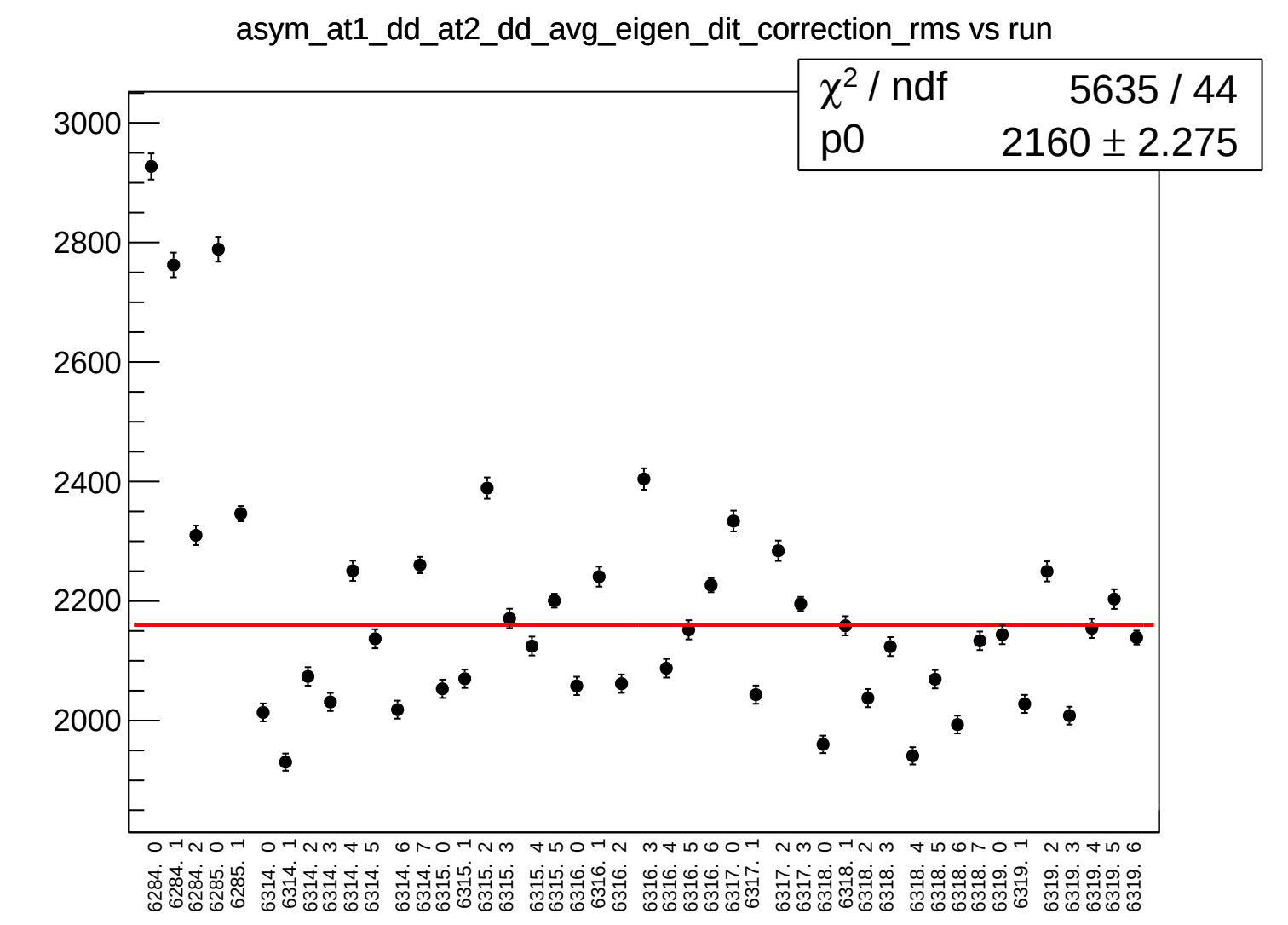
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.5
Std Dev 0
3
2
1
0
−1
−2

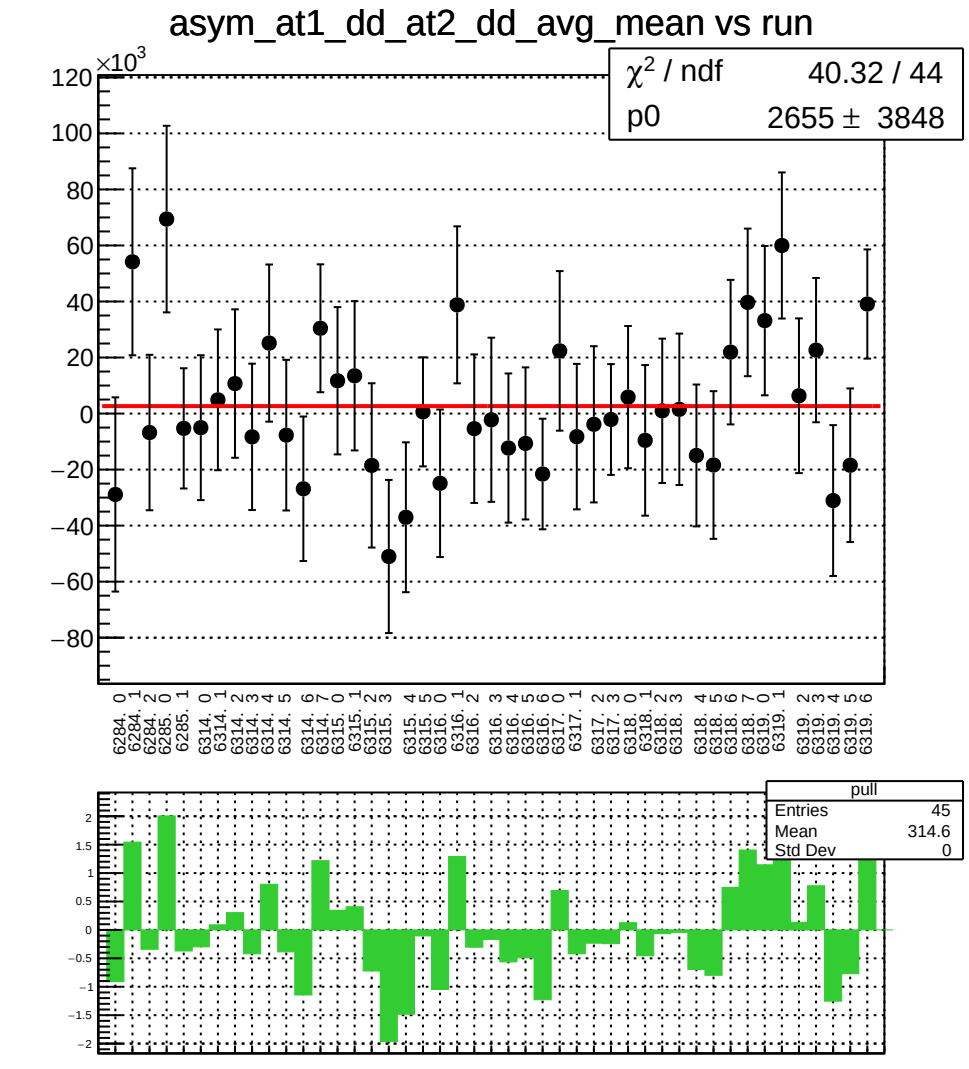

pull1D
Entries 45
Mean −0.006408
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

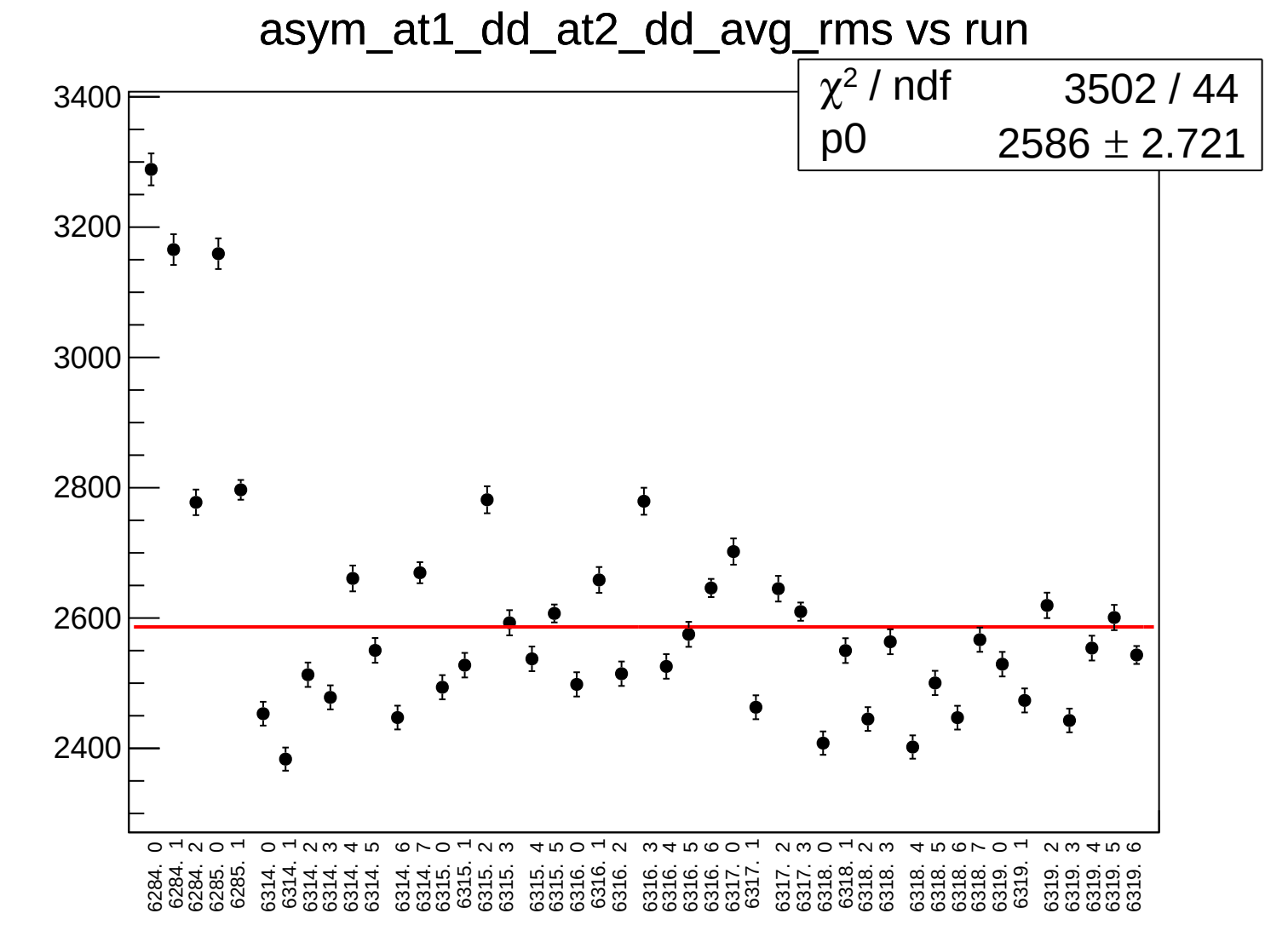

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 84.02 / 44
p0 1453 ± 1.526
1500
1490
1480
1470
1460
1450
1440
1430
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

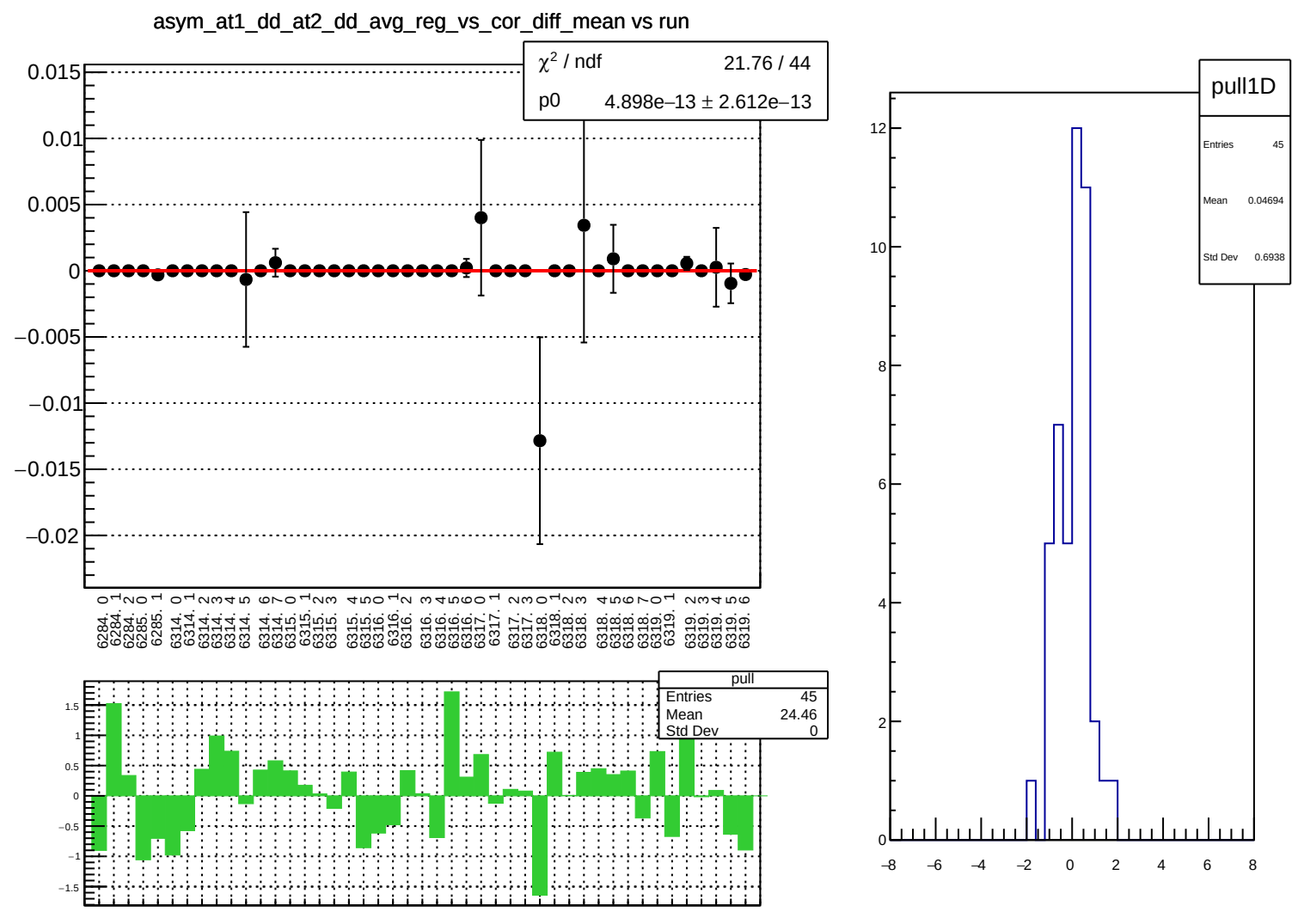

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.36 / 44
p0 −1250 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1466
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

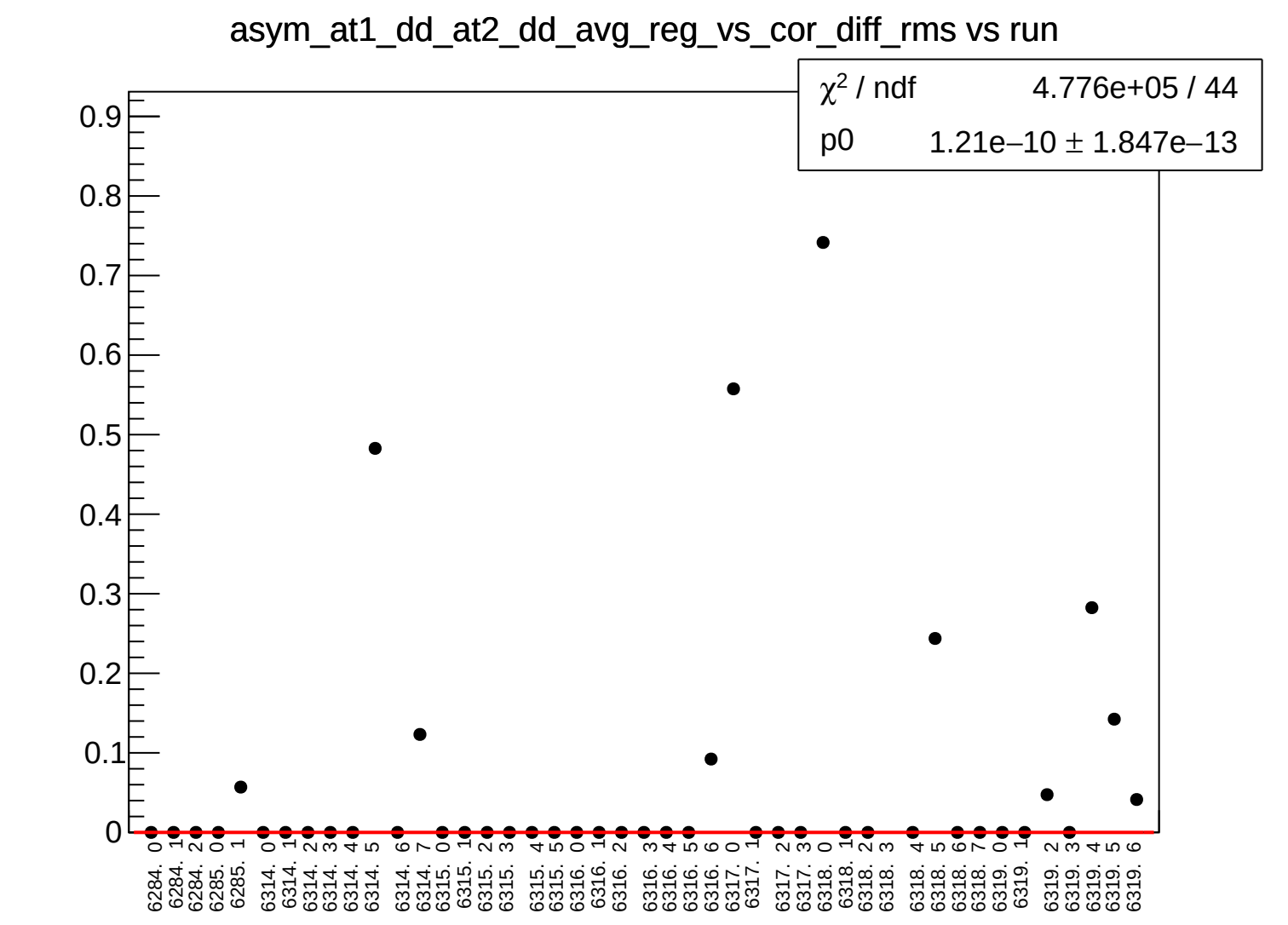

pull1D
Entries 45
Mean 0.001357
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

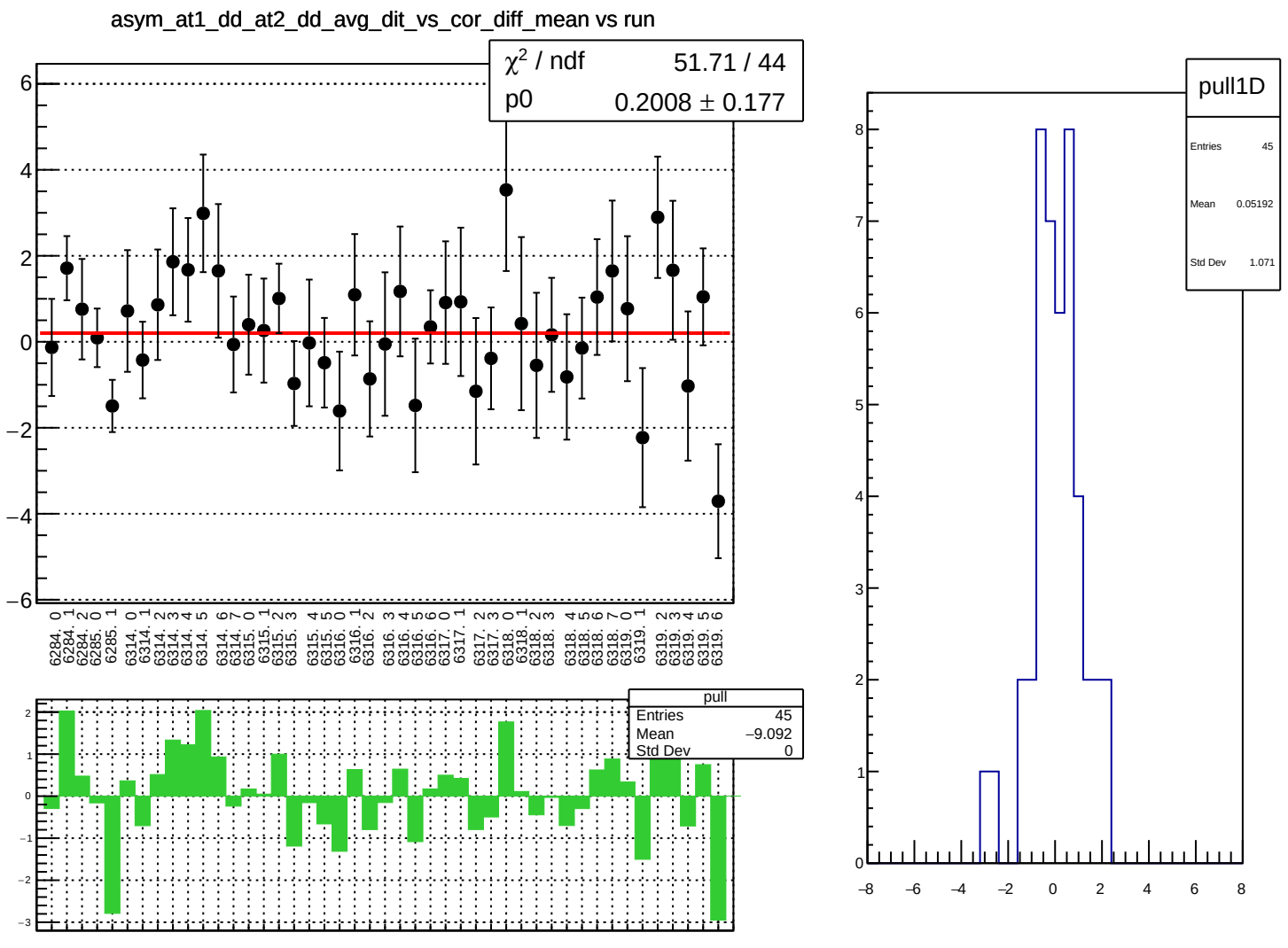

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5635 / 44
p0 2160 ± 2.275
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

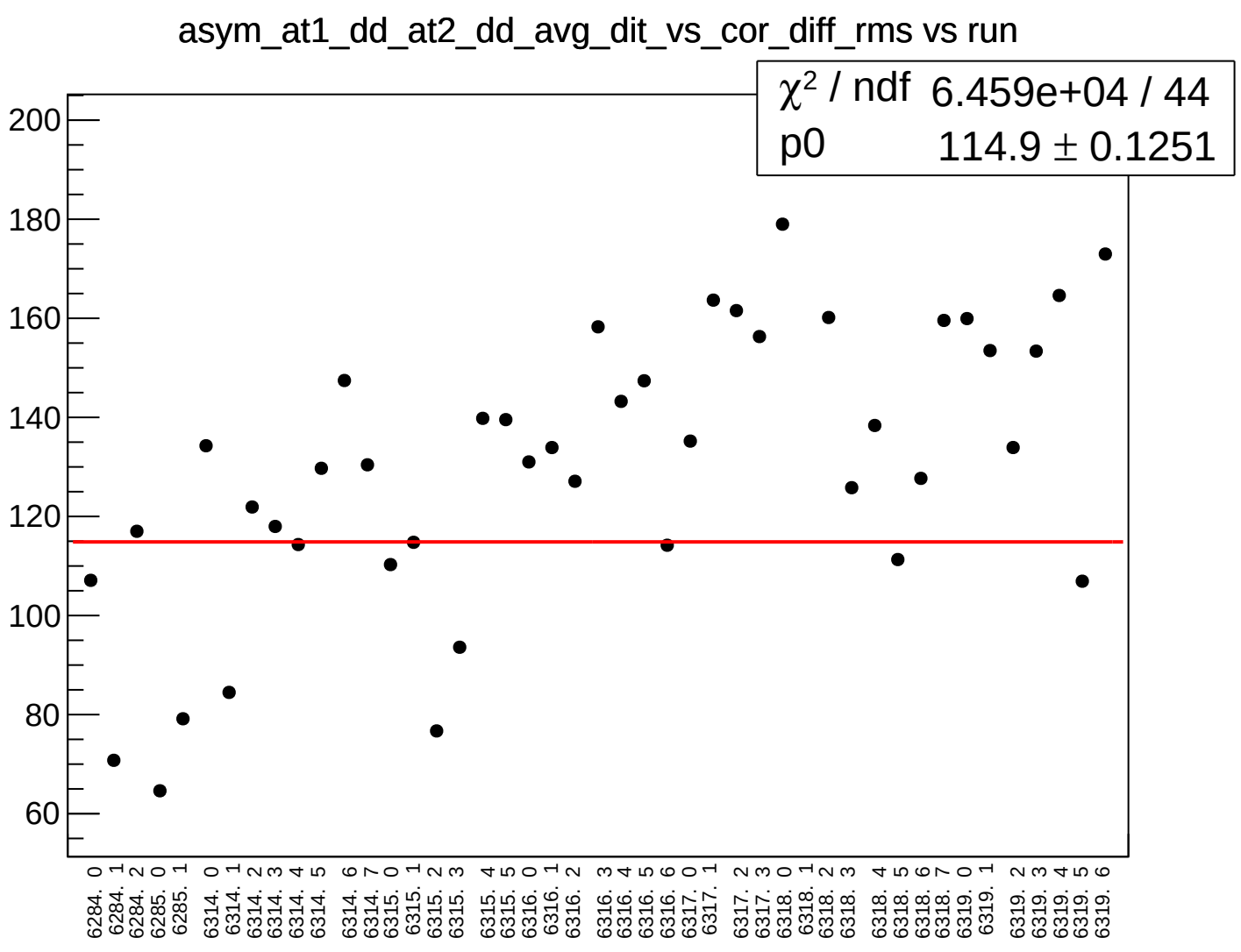

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 40.32 / 44
p0 2655 ± 3848
pull
Entries 45
Mean 314.6
Std Dev 0
pull1D
Entries 45
Mean 0.00422
Std Dev 0.9466

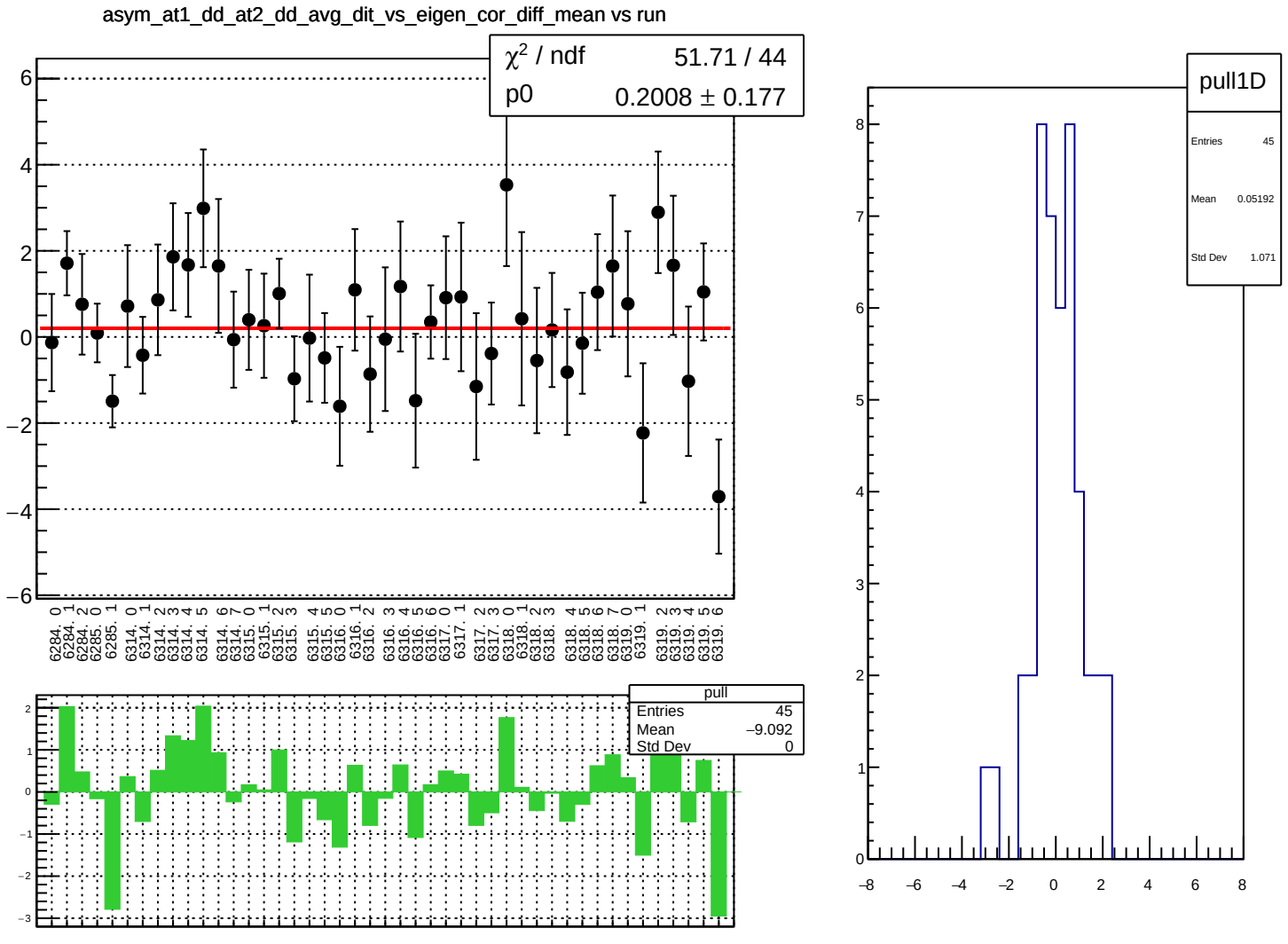

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3502 / 44
p0 2586 ± 2.721
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

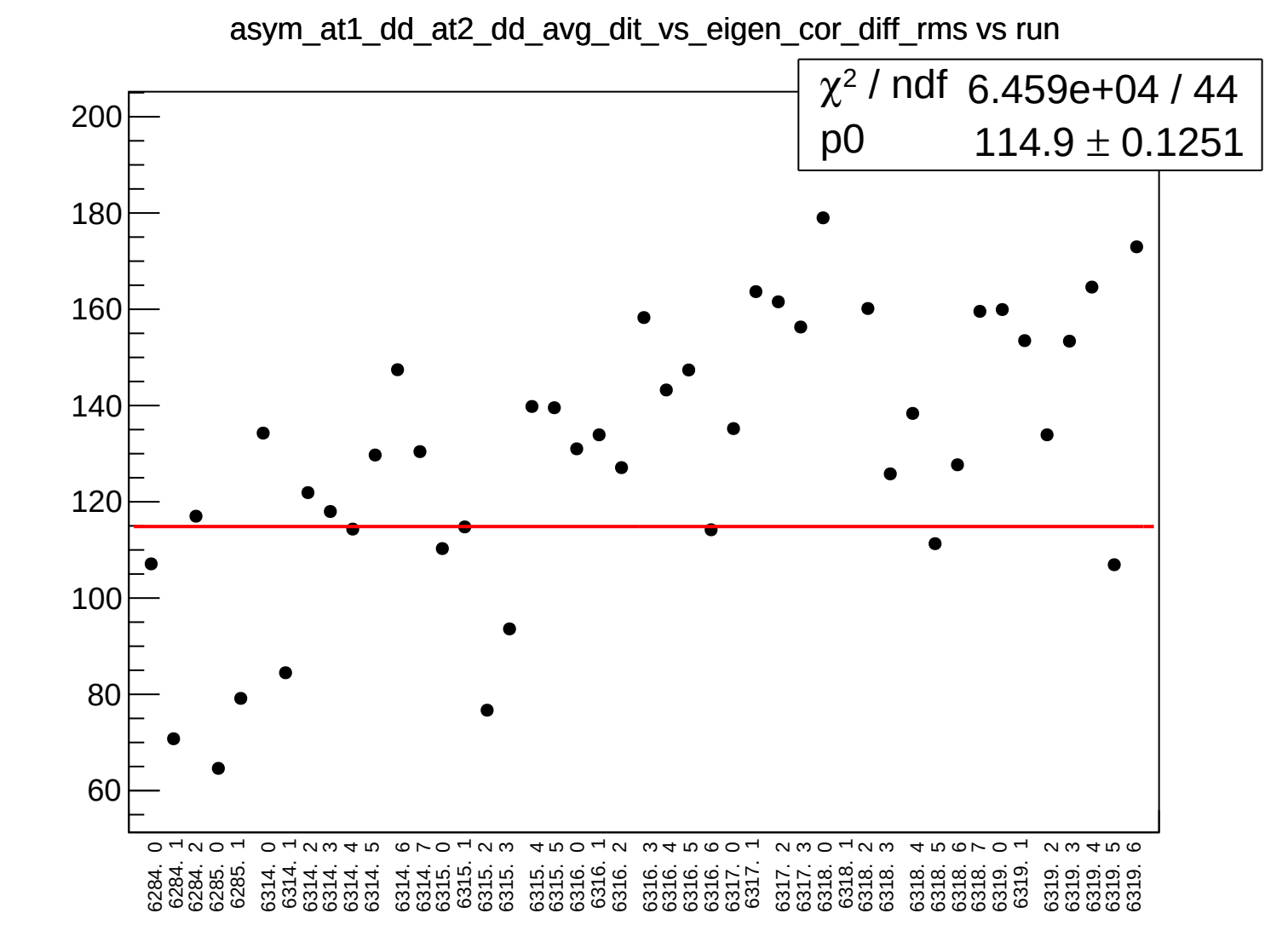

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.76 / 44
p0 4.898e−13 ± 2.612e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 24.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04694
Std Dev 0.6938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

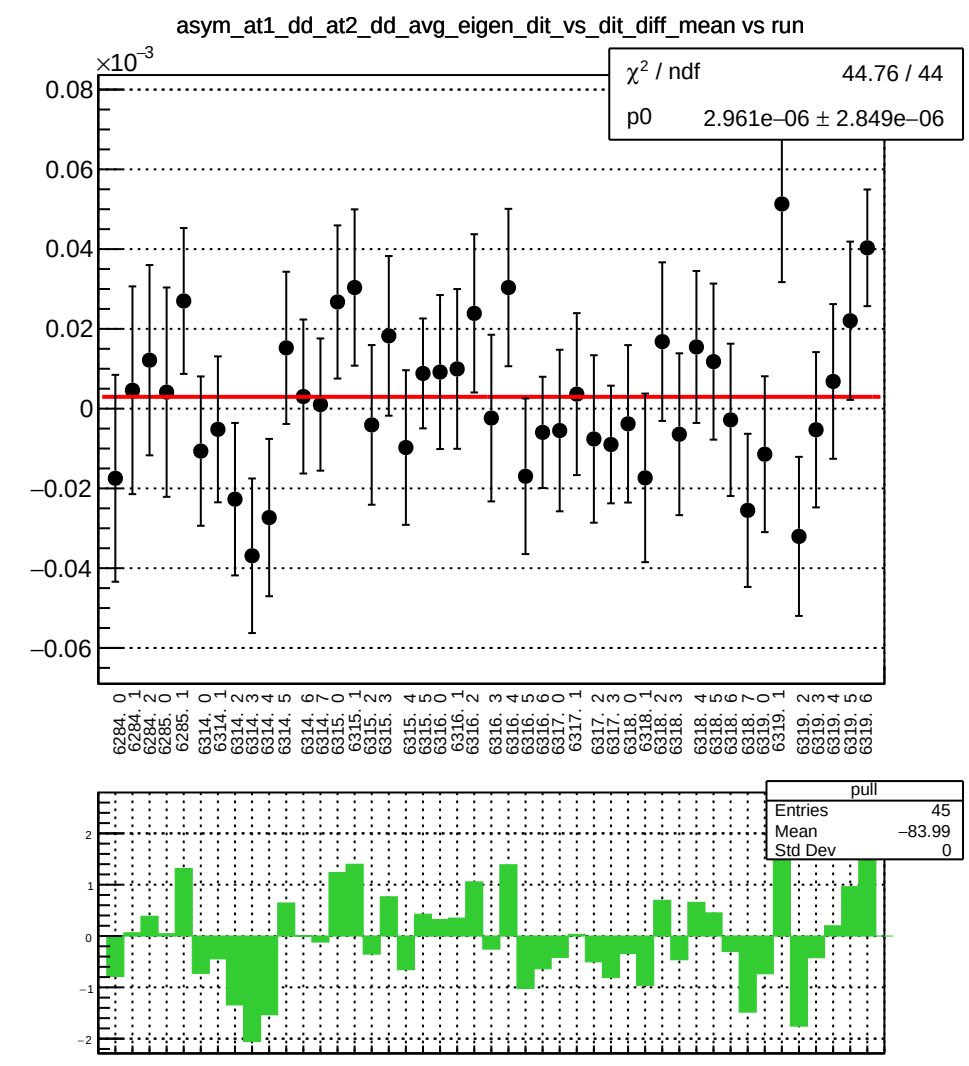

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.776e+05 / 44
p0 1.21e−10 ± 1.847e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

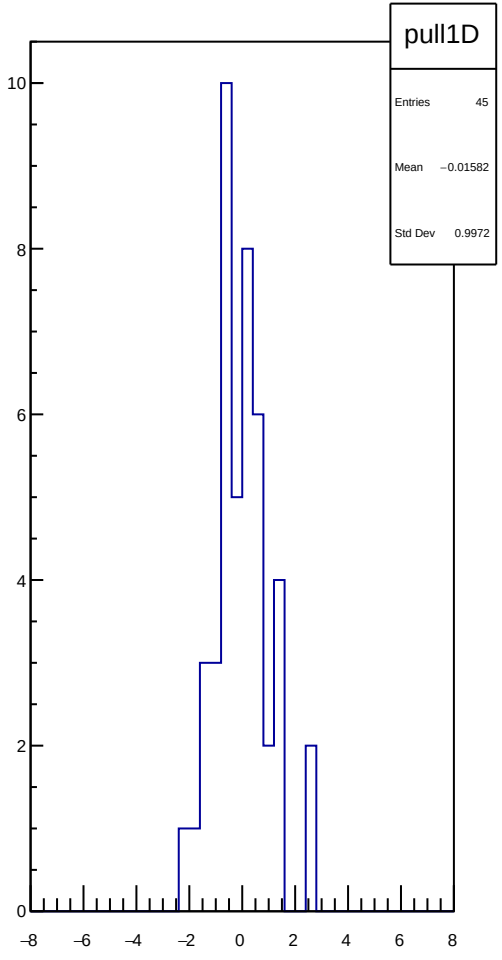

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −9.092
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.05192
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

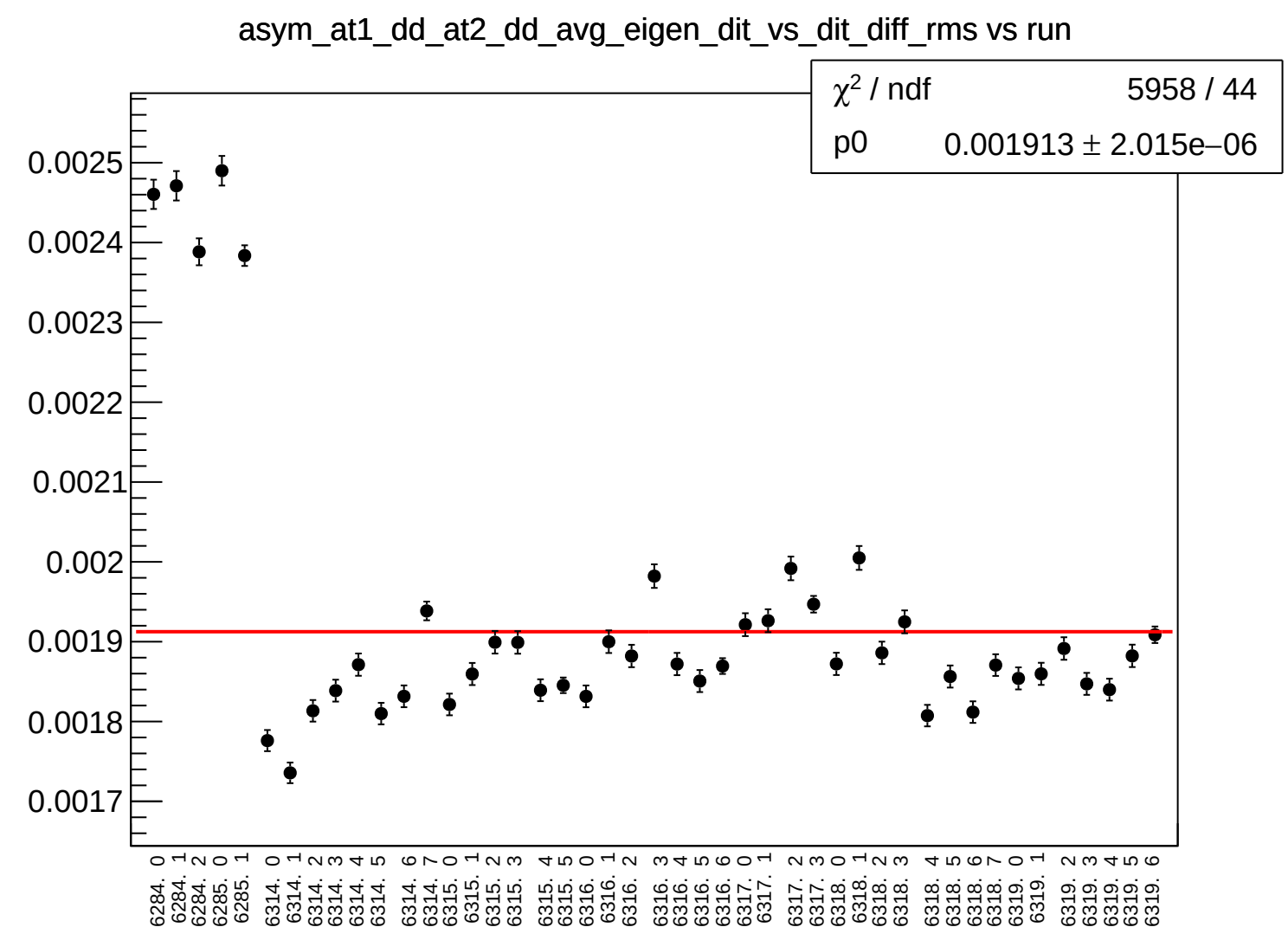

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

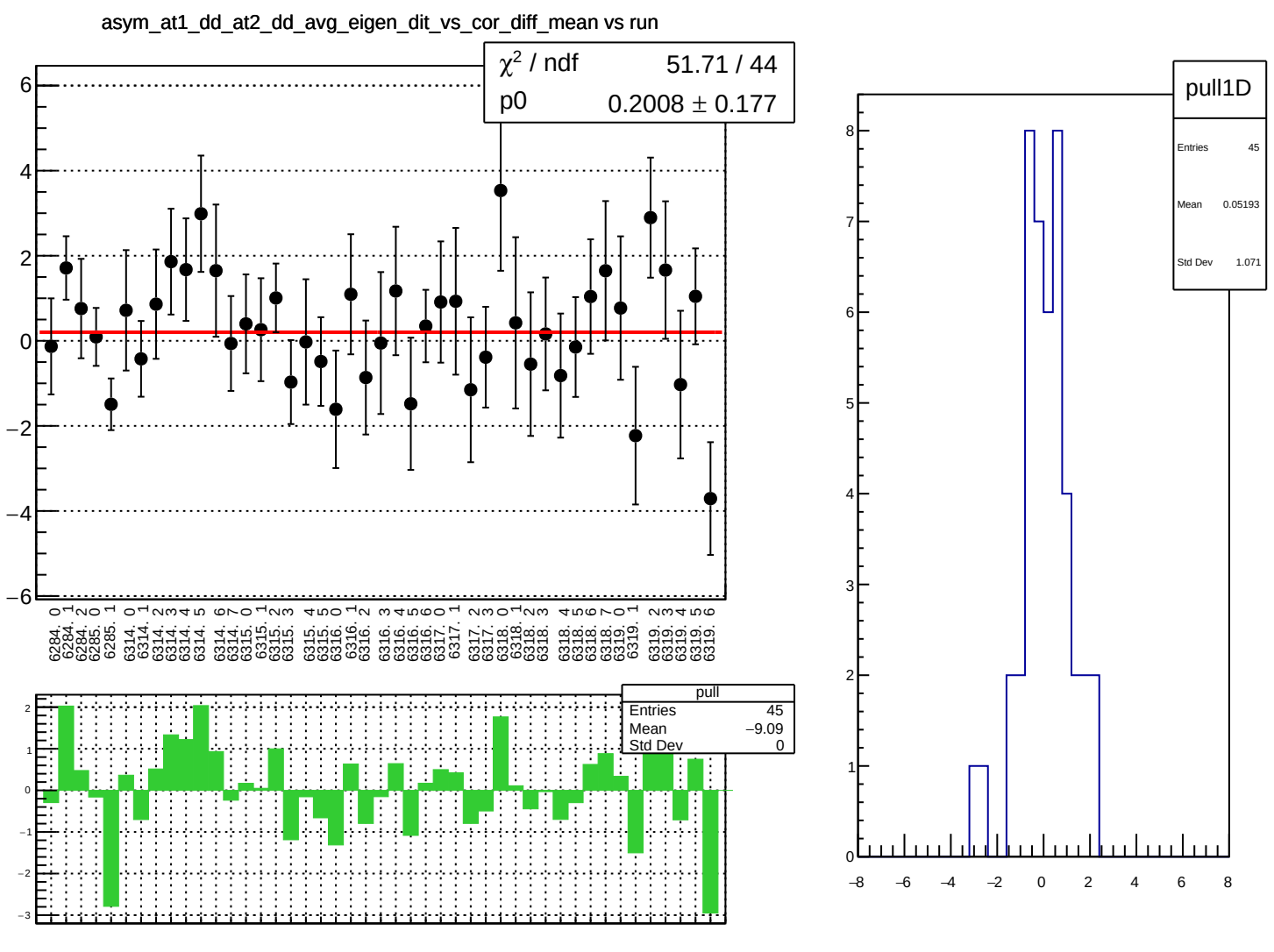

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −9.092
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.05192
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

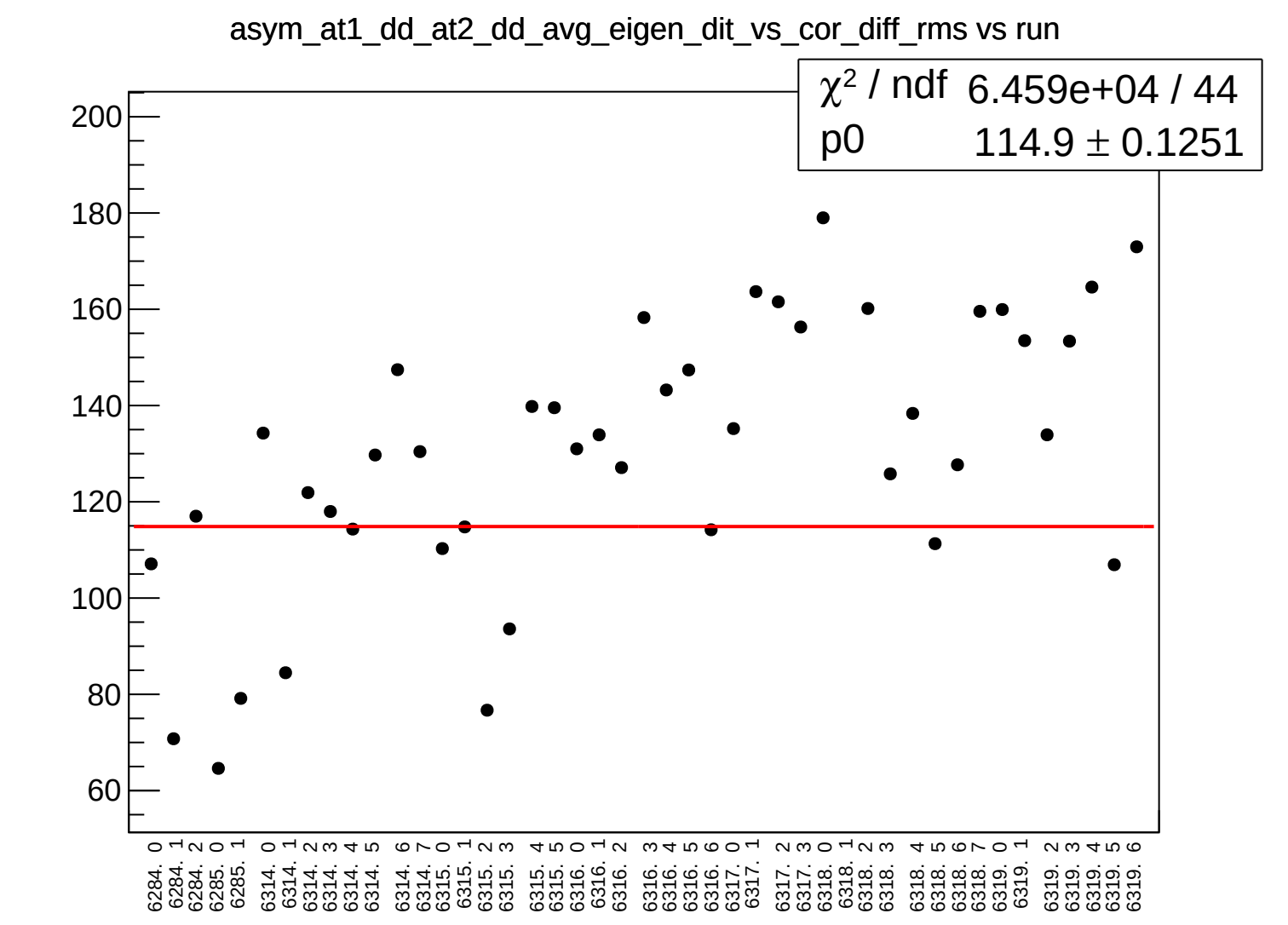

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

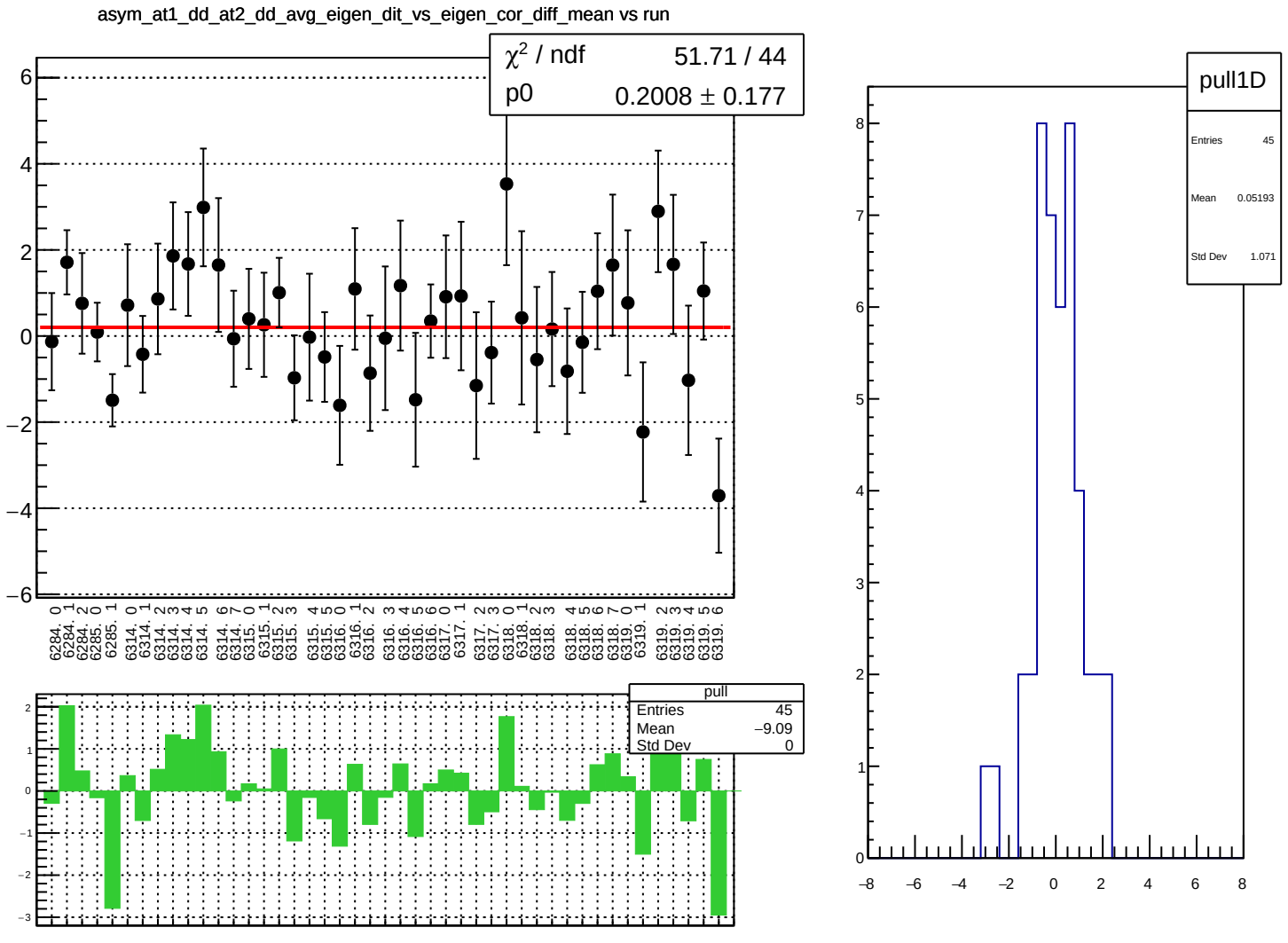

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.76 / 44
p0 2.961e−06 ± 2.849e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −83.99
Std Dev 0
2
1
0
−1
−2

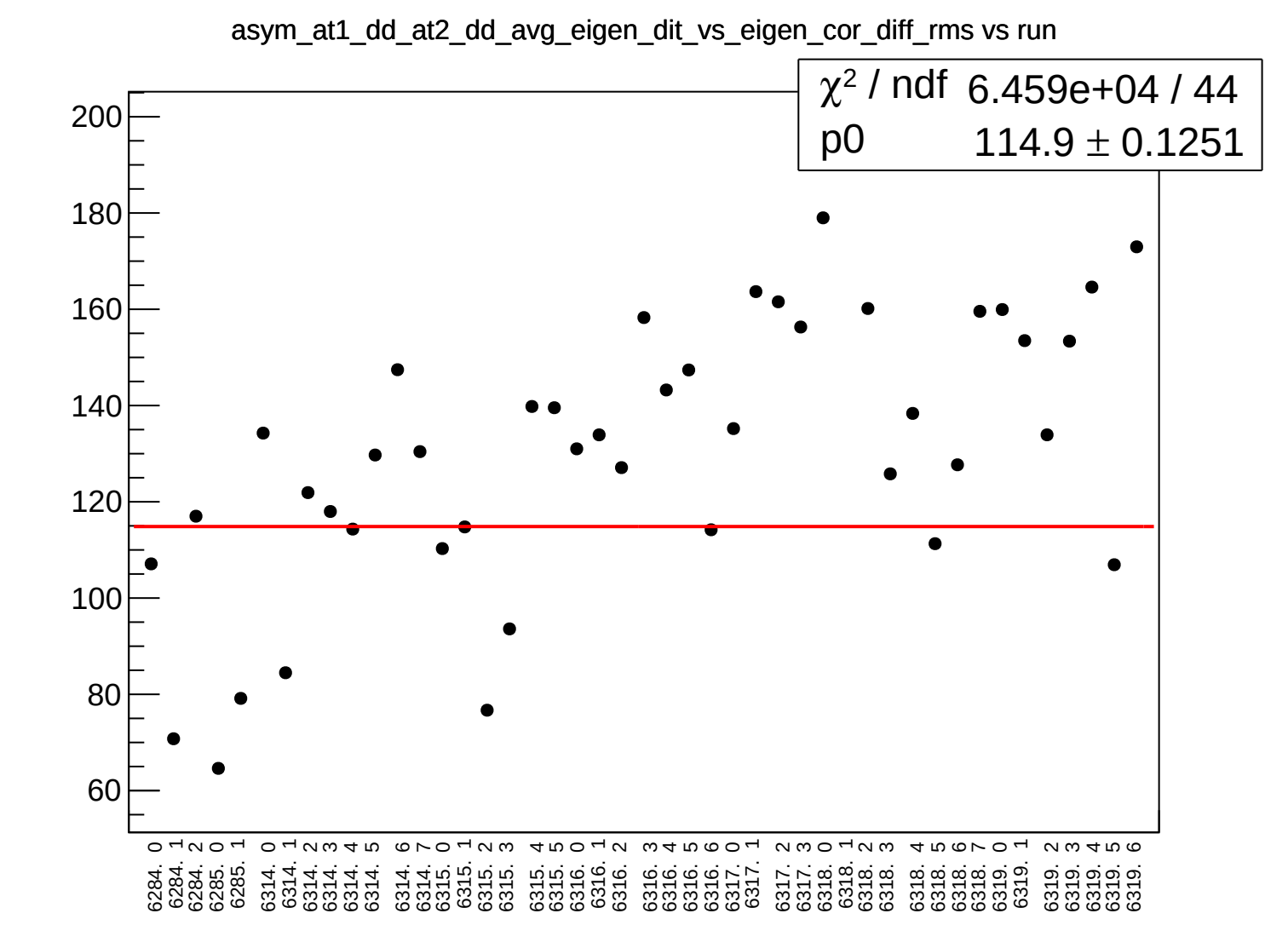

pull1D
Entries 45
Mean −0.01582
Std Dev 0.9972
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5958 / 44
p0 0.001913 ± 2.015e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
pull
Entries 45
Mean −9.09
Std Dev 0
pull1D
Entries 45
Mean 0.05193
Std Dev 1.071


asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.71 / 44
p0 0.2008 ± 0.177
pull
Entries 45
Mean −9.09
Std Dev 0
pull1D
Entries 45
Mean 0.05193
Std Dev 1.071


asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 44
p0 114.9 ± 0.1251
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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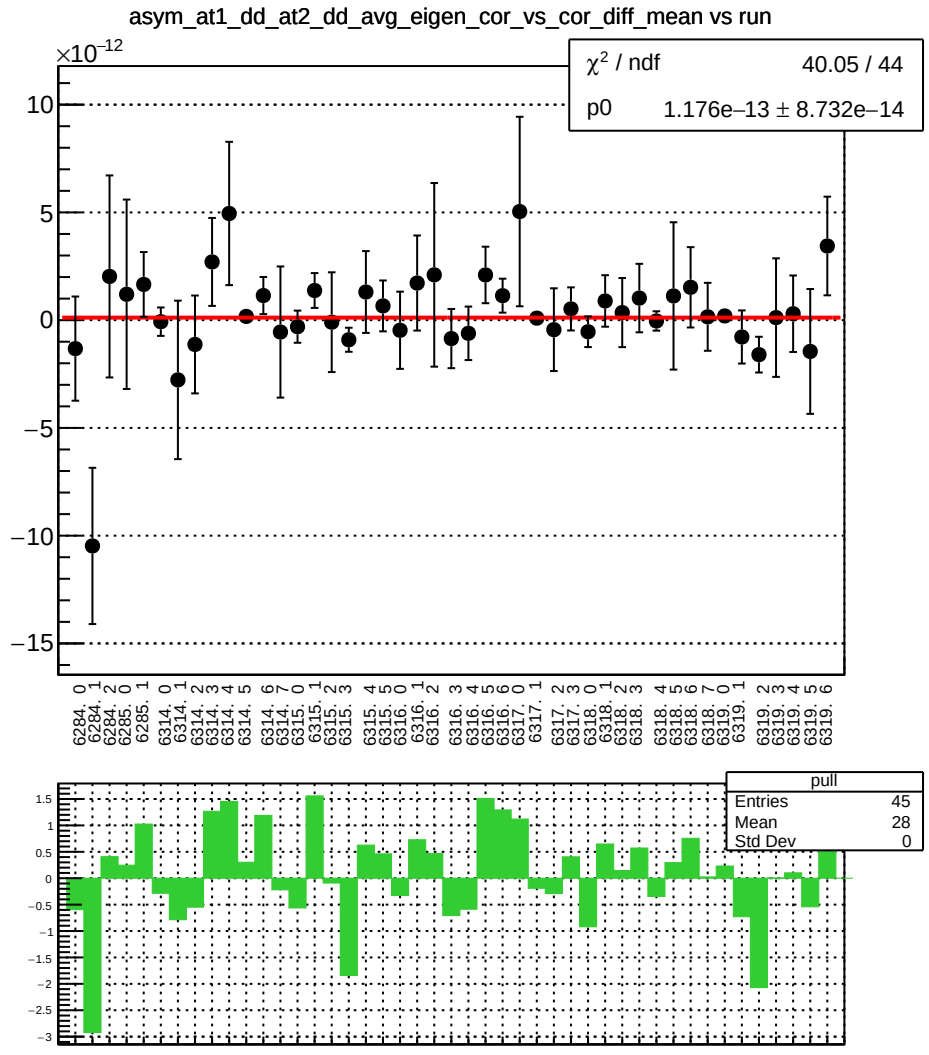
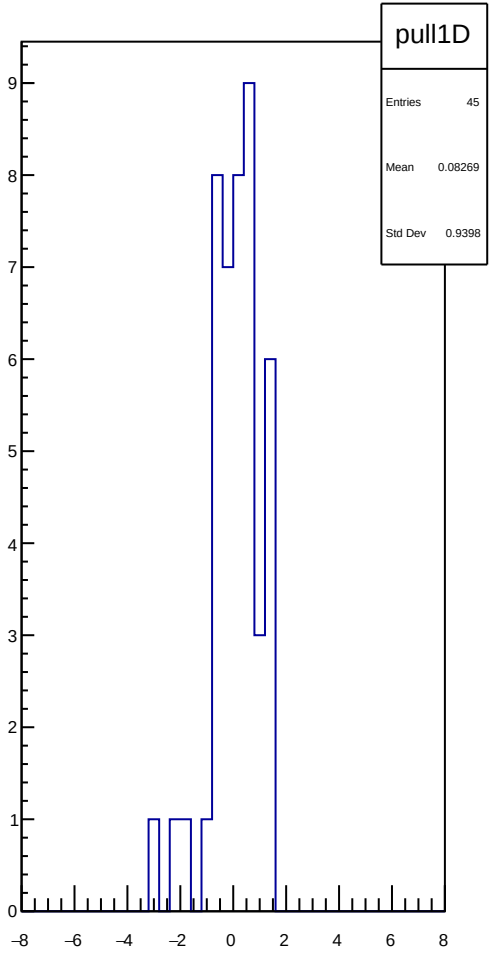
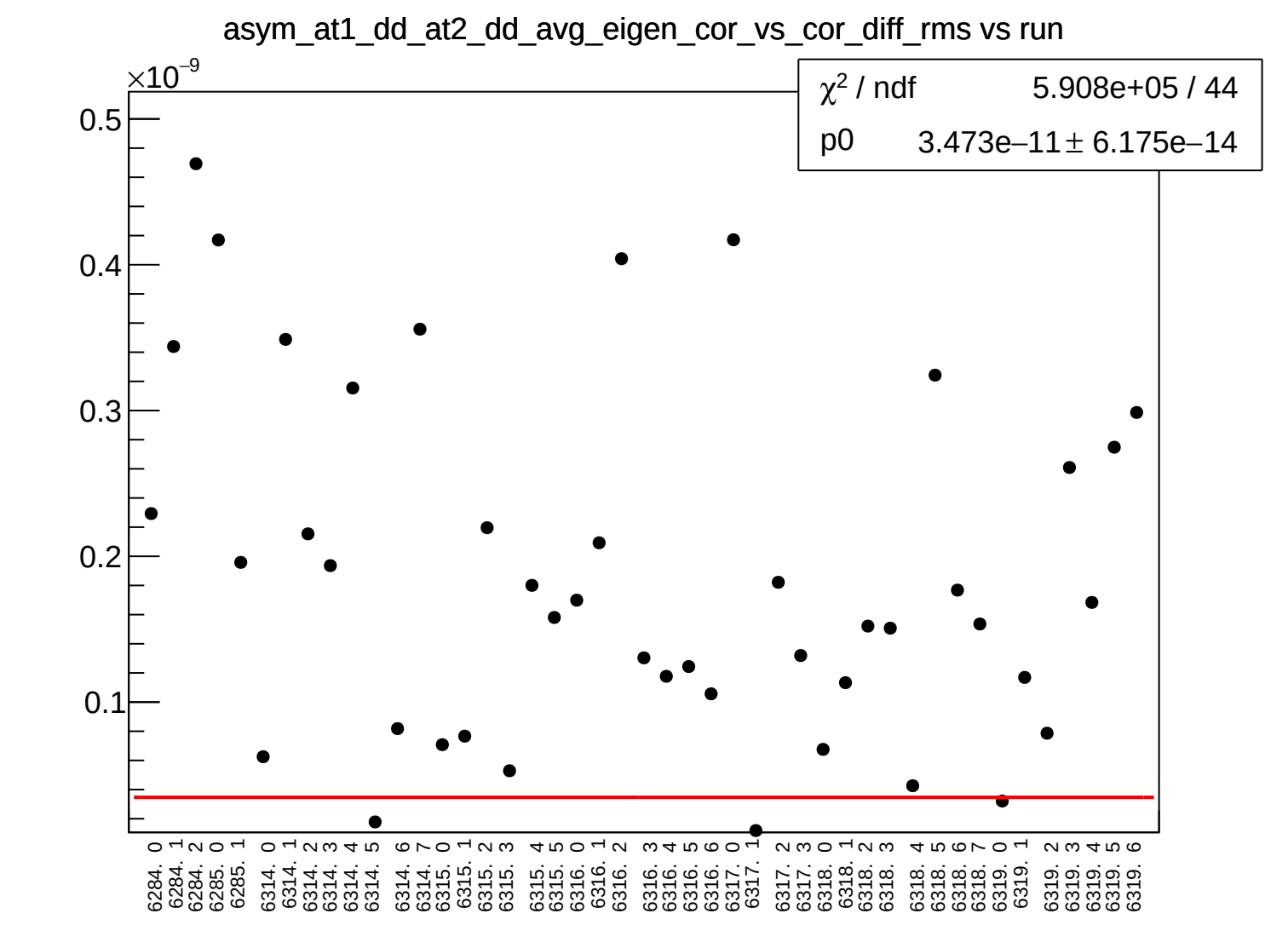
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.05 / 44
p0 1.176e−13 ± 8.732e−14
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean 0.08269
Std Dev 0.9398
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.908e+05 / 44
p0 3.473e−11 ± 6.175e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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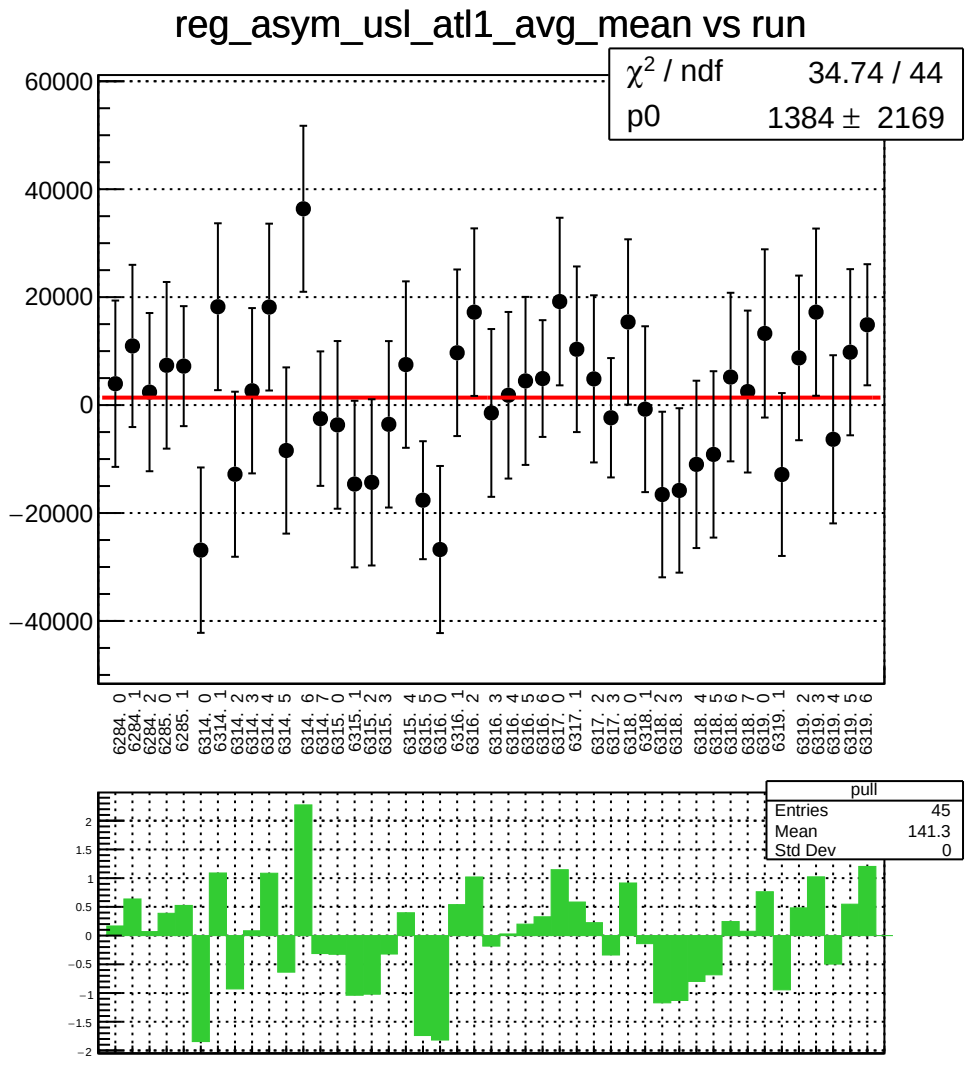
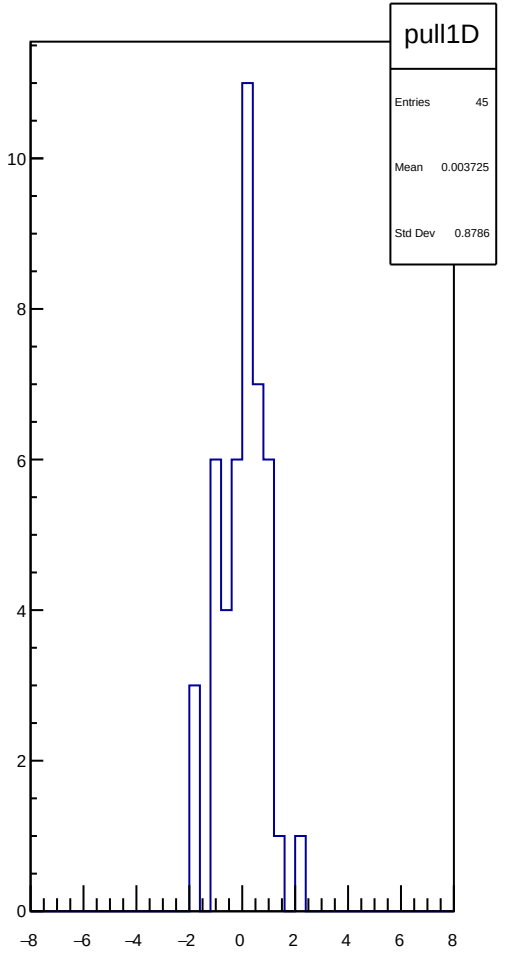
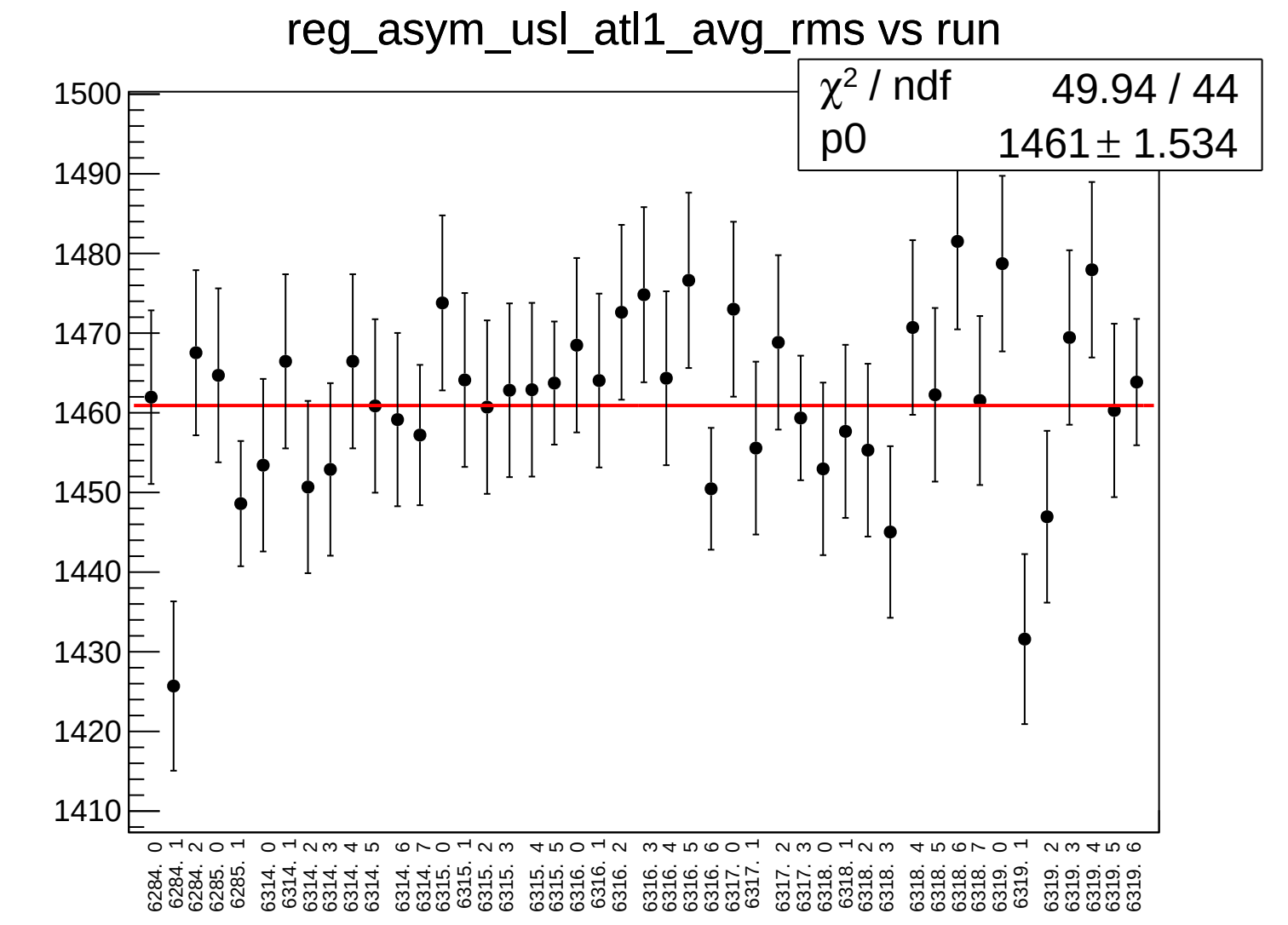
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 34.74 / 44
p0 1384 ± 2169
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 141.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003725
Std Dev 0.8786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 49.94 / 44
p0 1461 ± 1.534
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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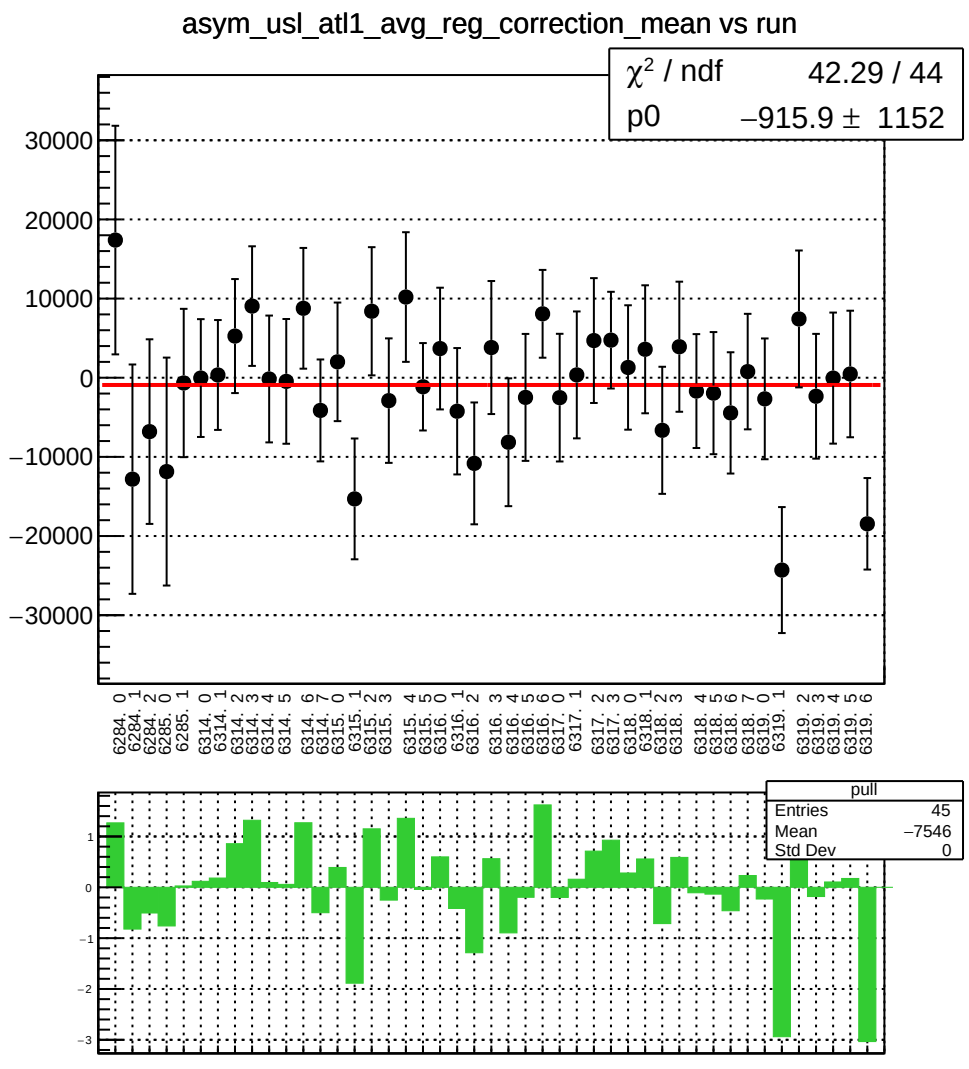
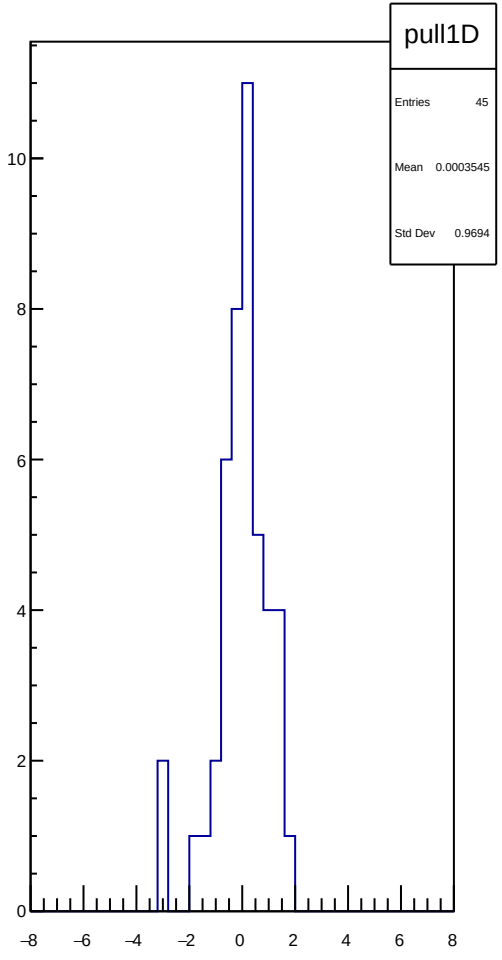
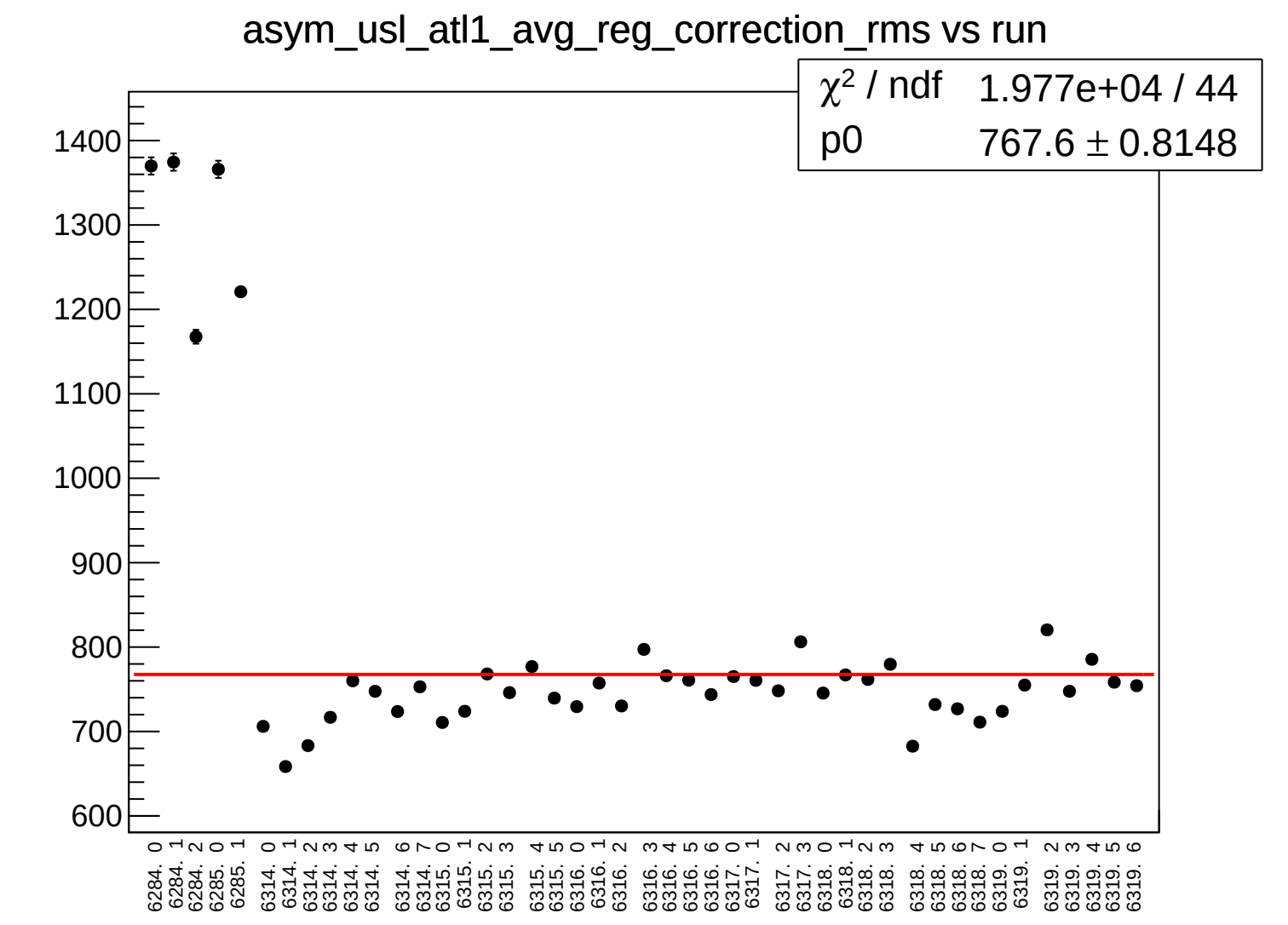
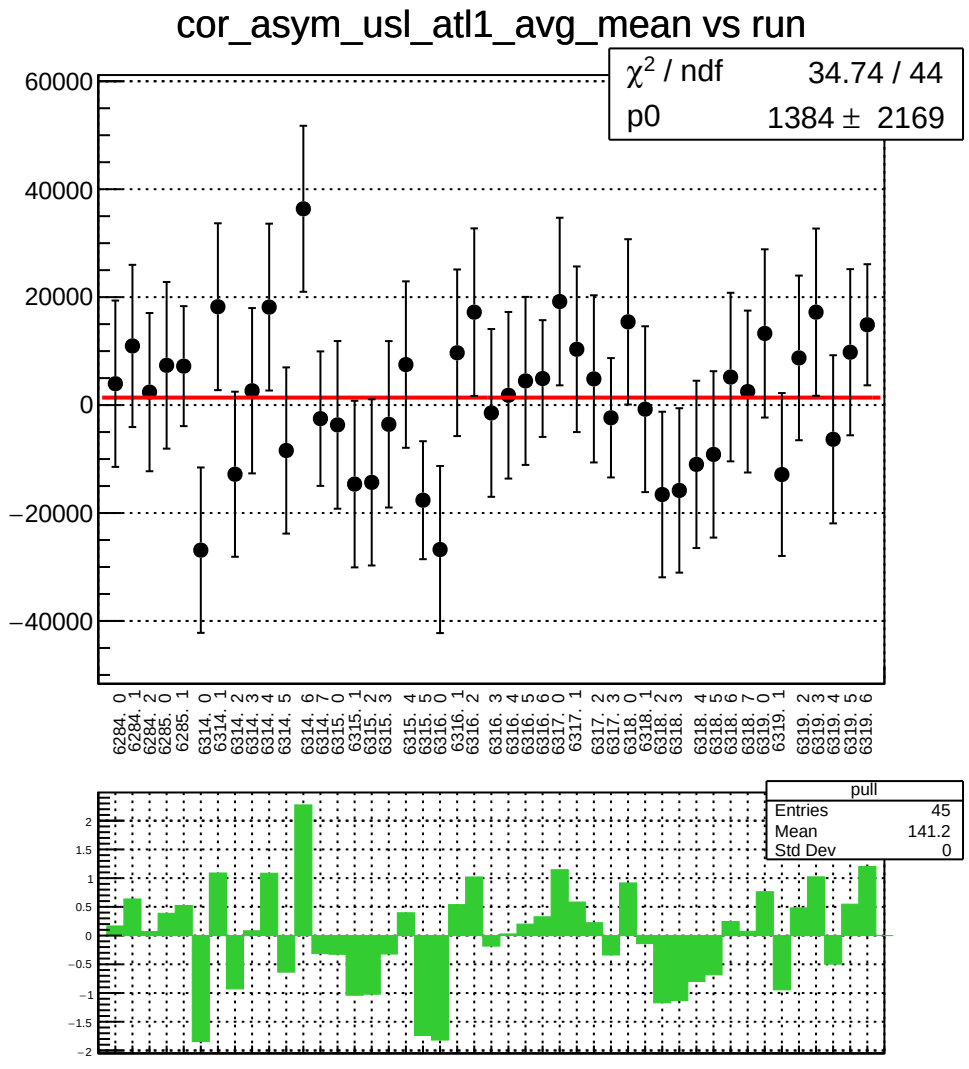
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 42.29 / 44
p0 −915.9 ± 1152
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −7546
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0003545
Std Dev 0.9694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.977e+04 / 44
p0 767.6 ± 0.8148
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 34.74 / 44
p0 1384 ± 2169
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
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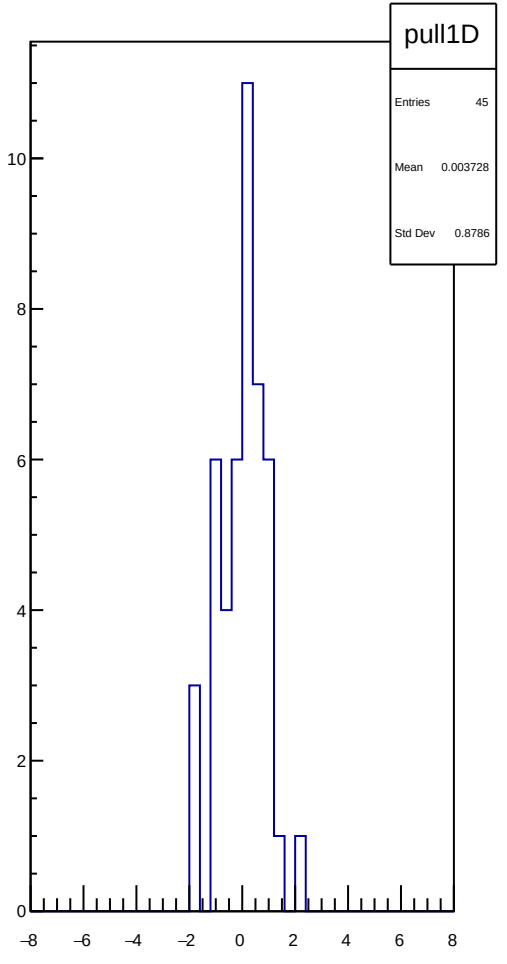
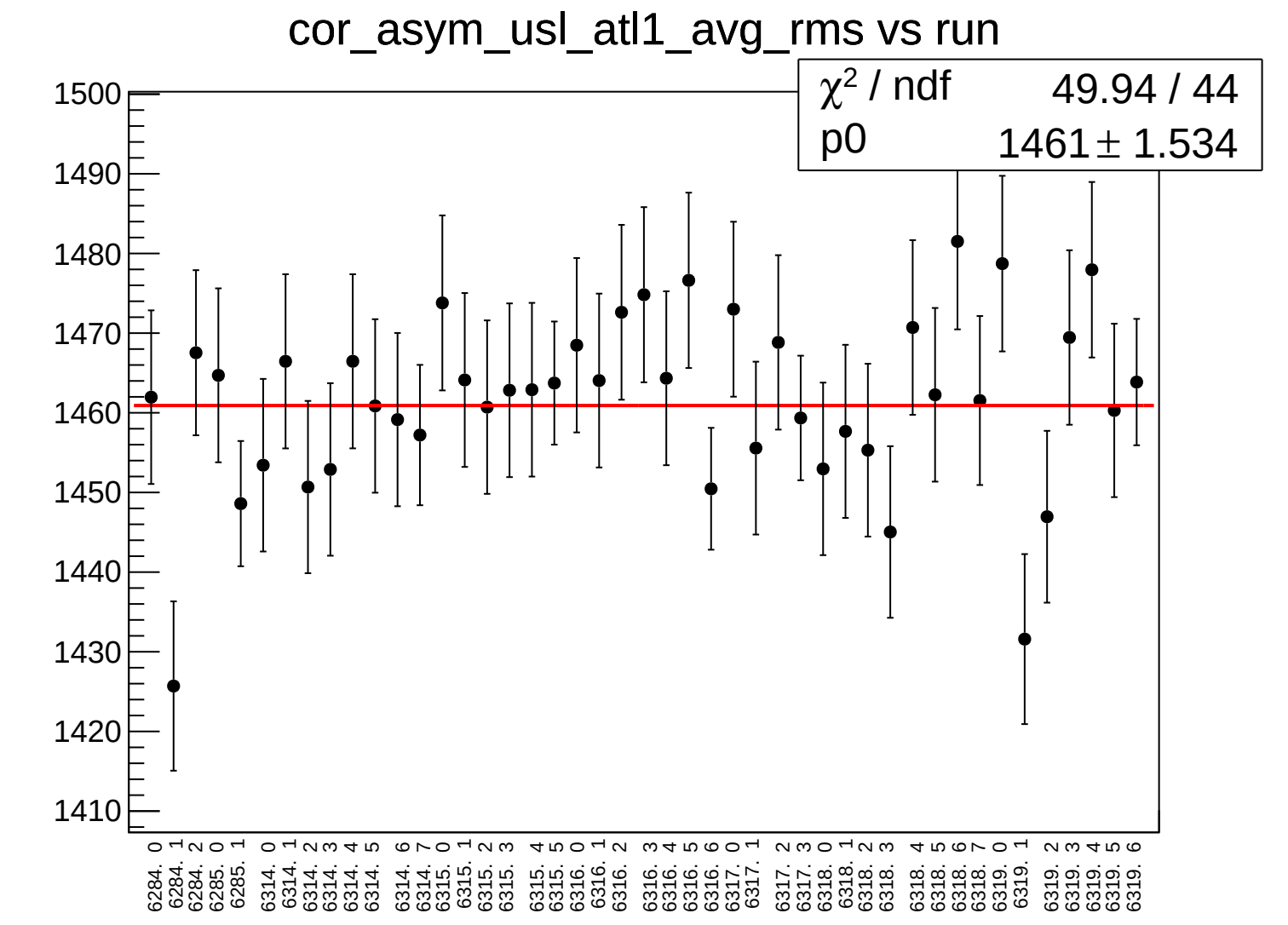
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003728
Std Dev 0.8786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 49.94 / 44
p0 1461 ± 1.534
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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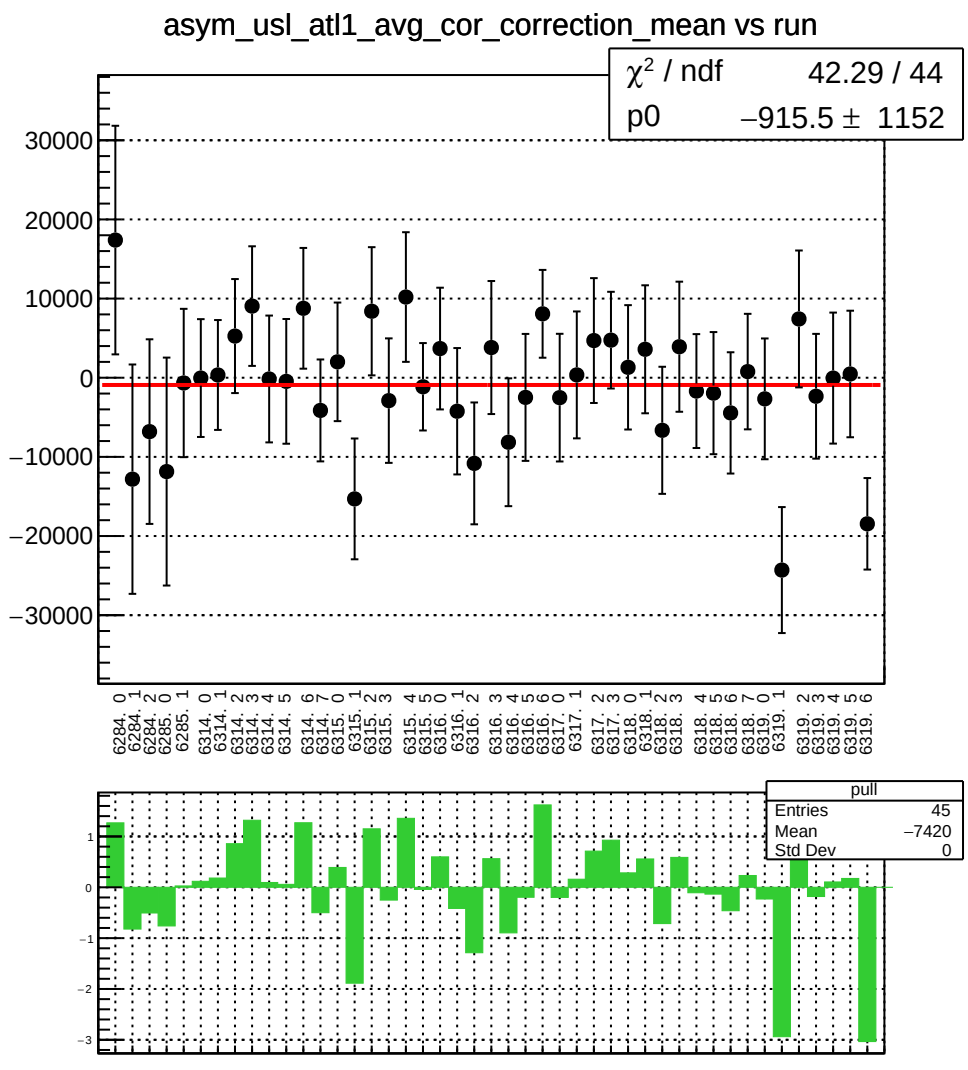
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 42.29 / 44
p0 −915.5 ± 1152
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 0
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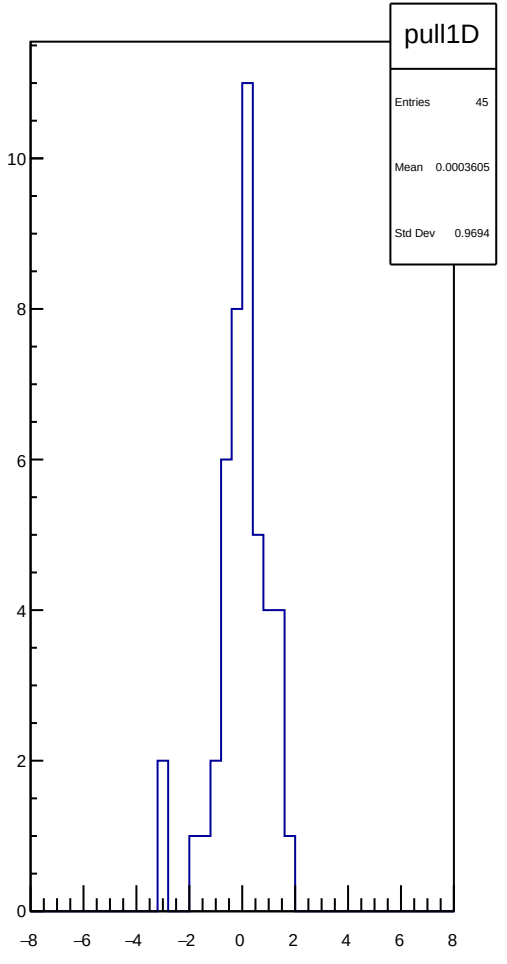
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −7420
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0003605
Std Dev 0.9694
10
8
6
4
2
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−4
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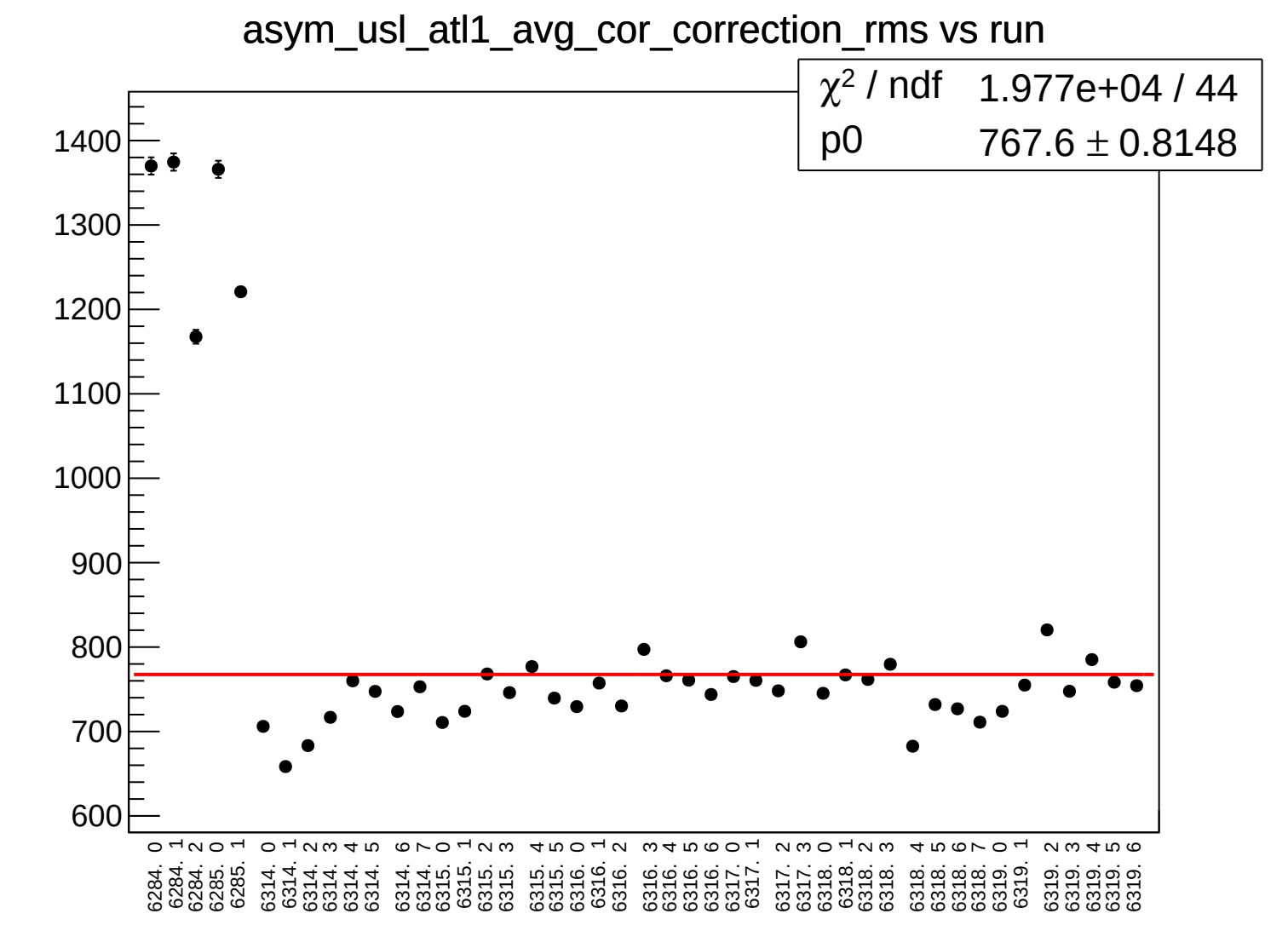
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.977e+04 / 44
p0 767.6 ± 0.8148
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
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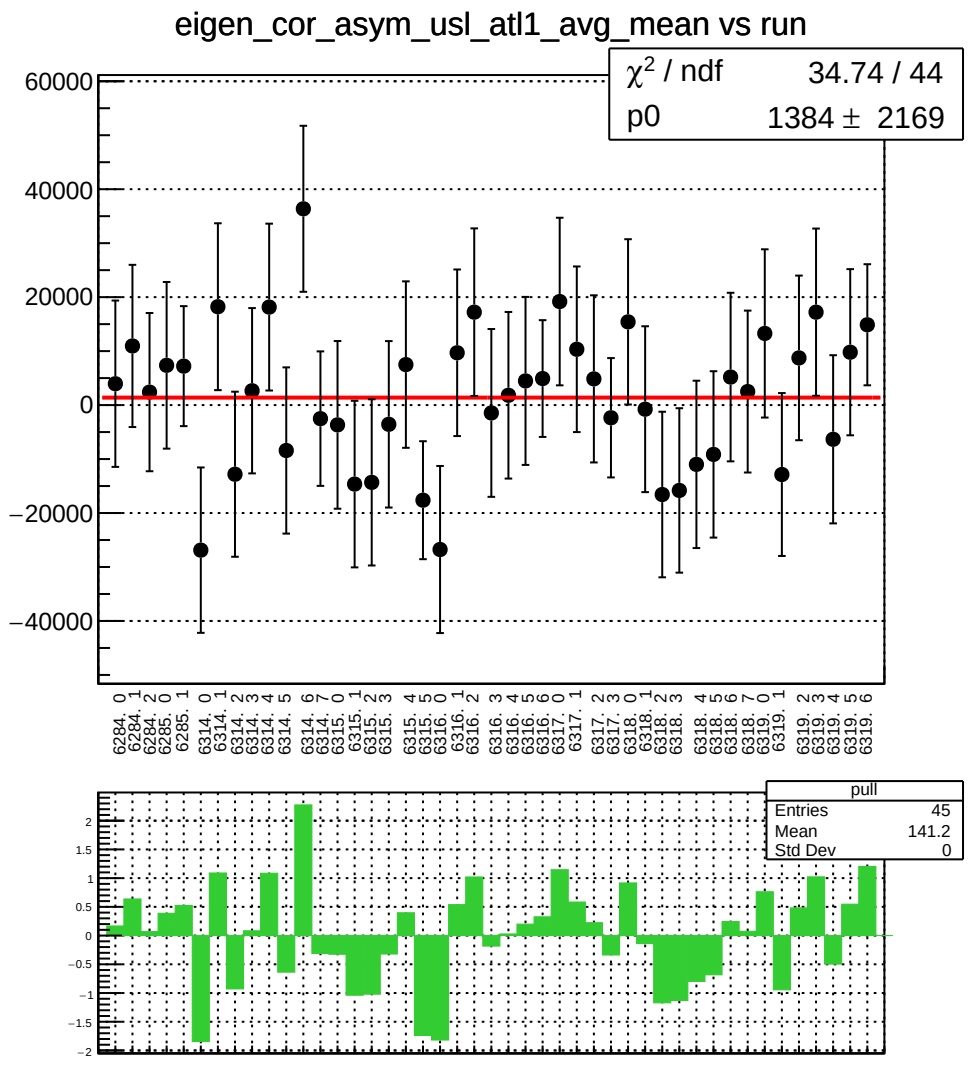
eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 34.74 / 44
p0 1384 ± 2169
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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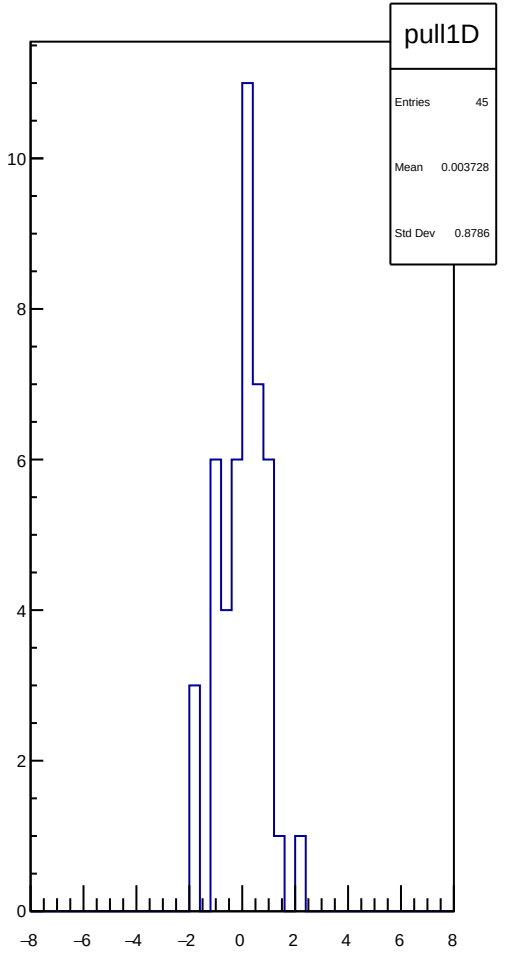
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003728
Std Dev 0.8786
10
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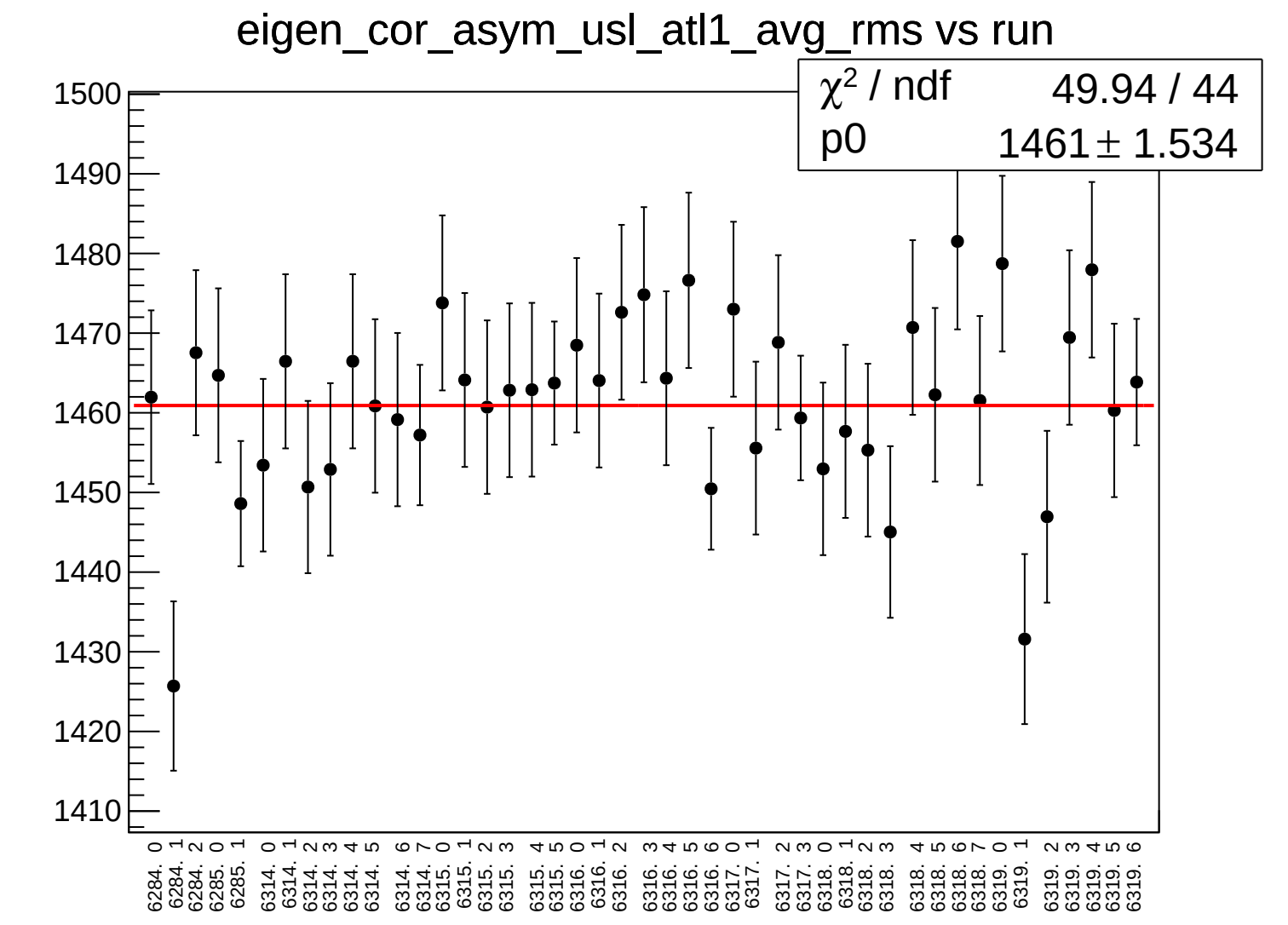
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 49.94 / 44
p0 1461 ± 1.534
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
6284. 0
6284. 1
6284. 2
6285. 0
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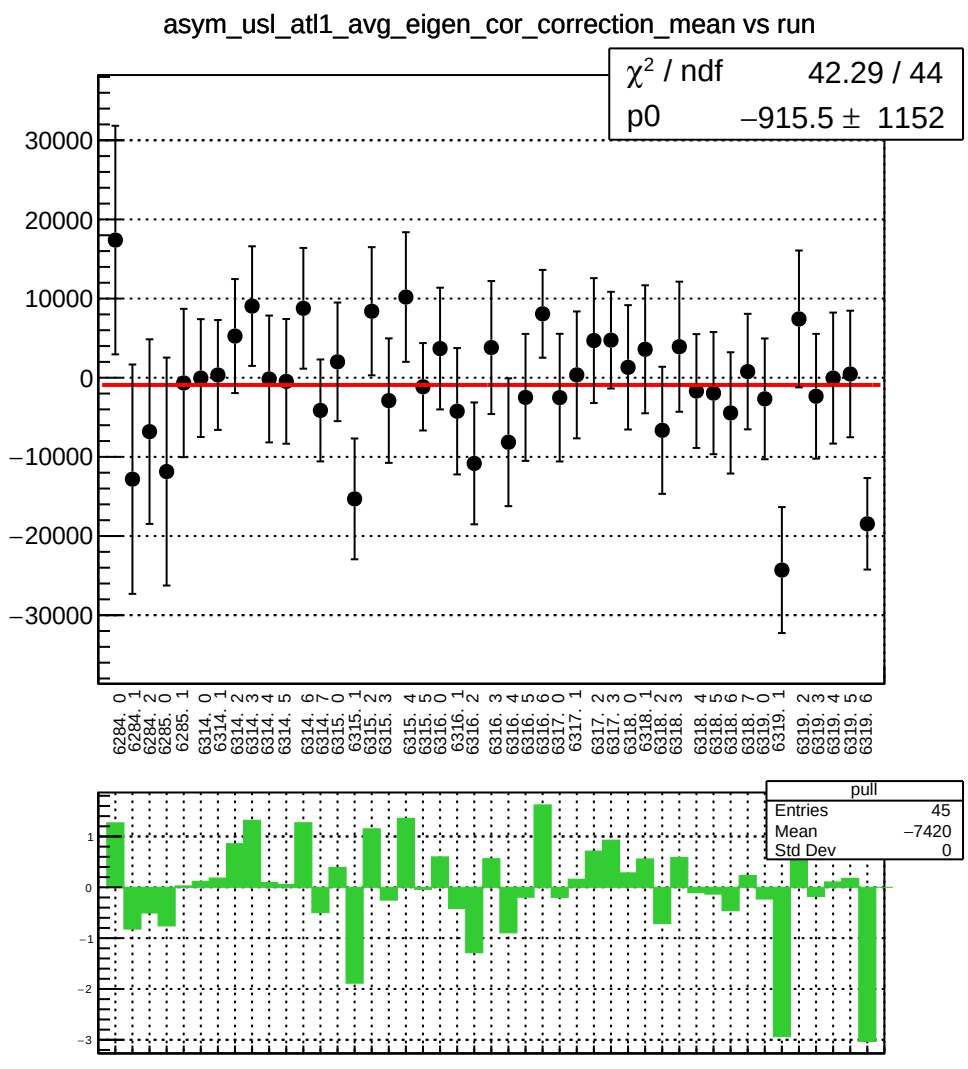
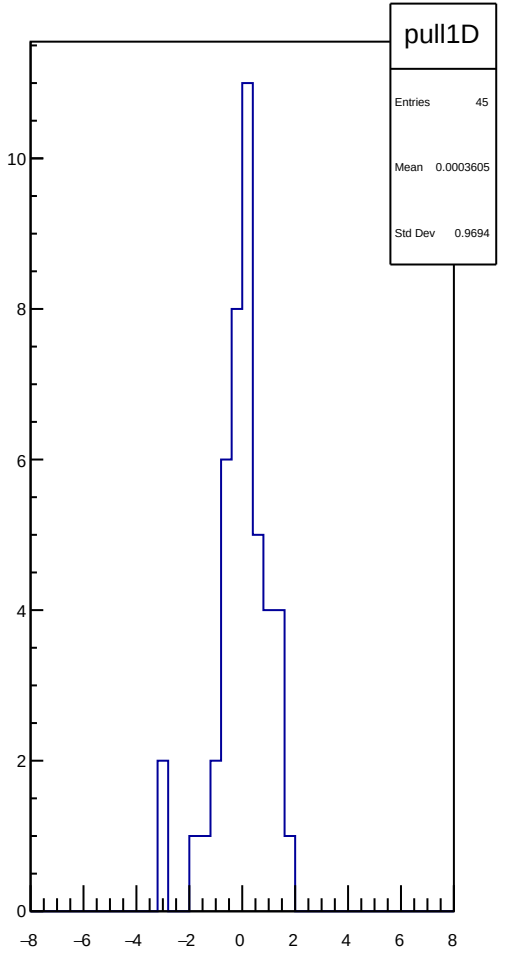
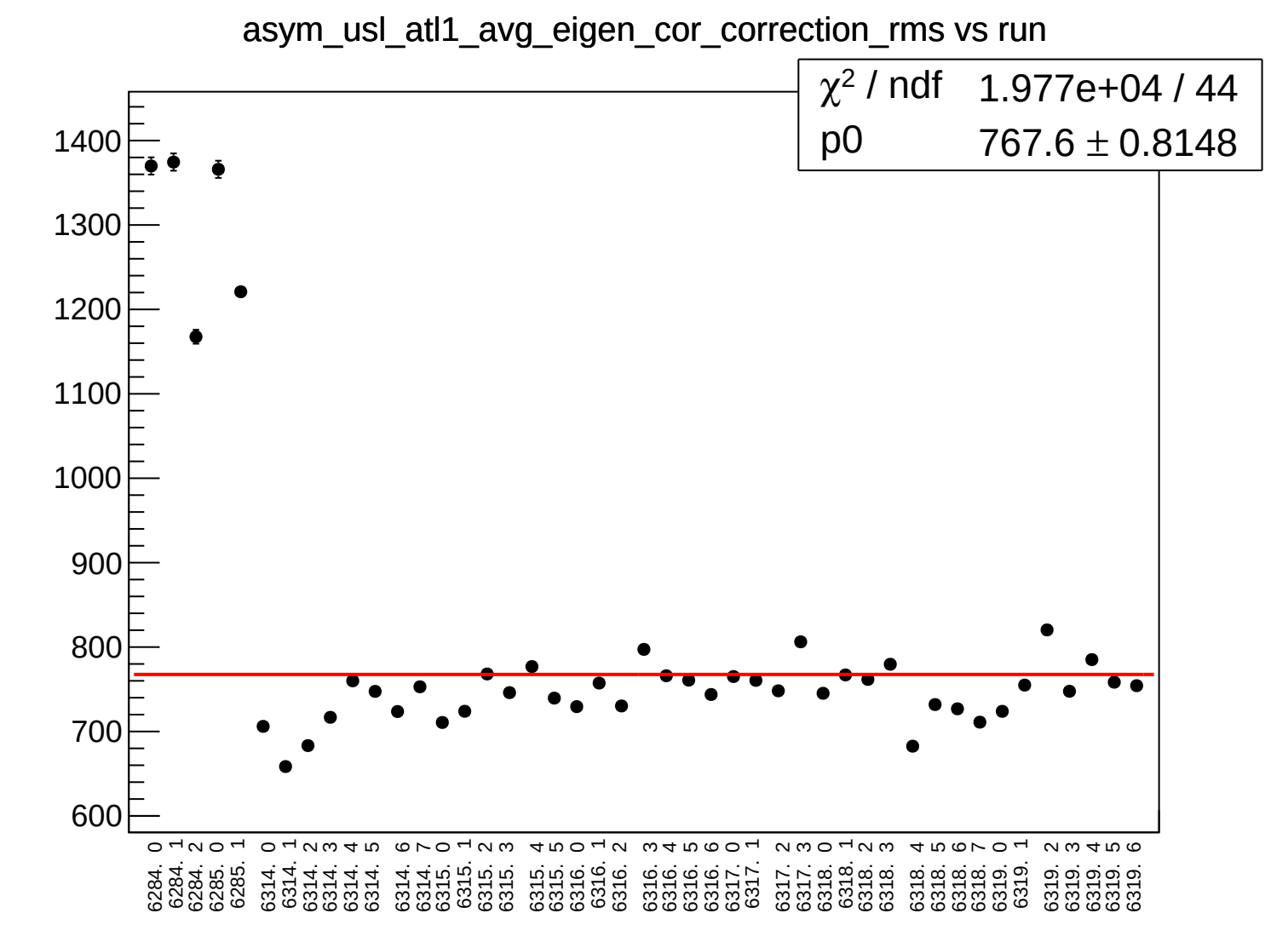
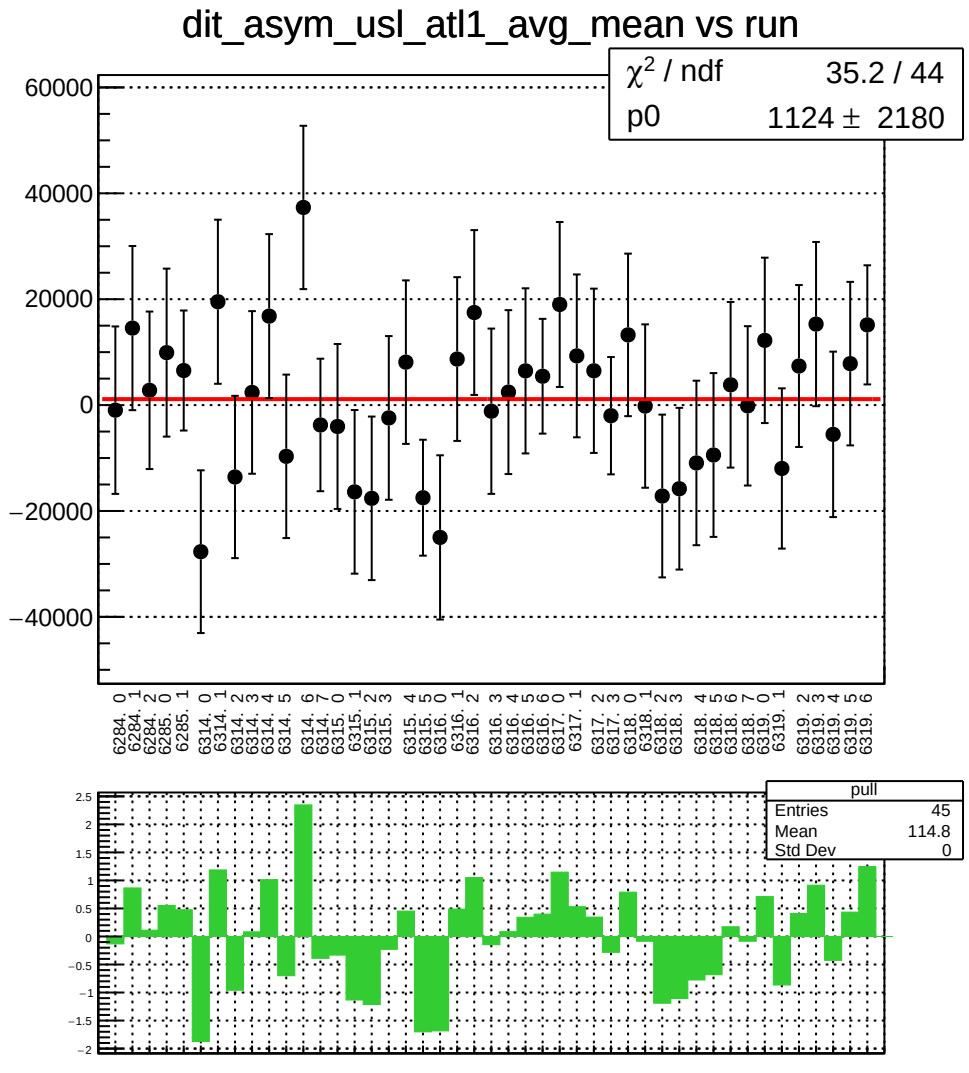
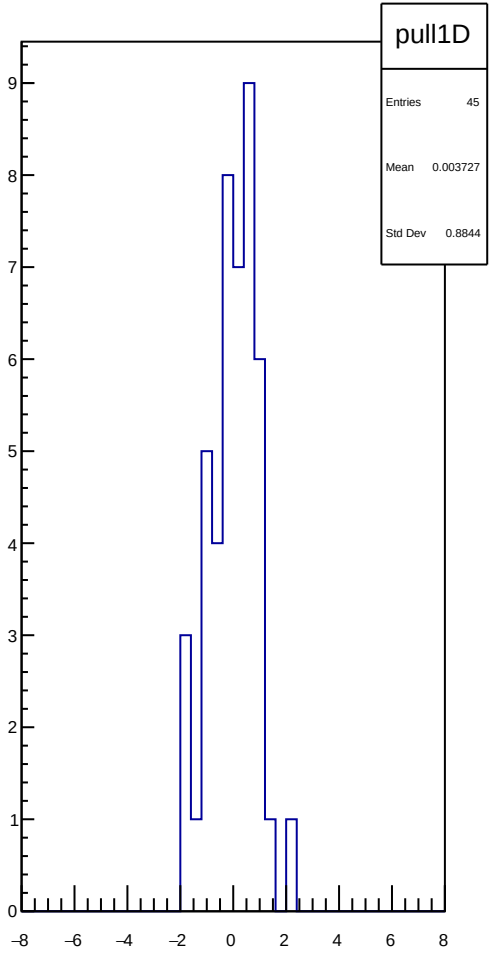
6319. 5
6319. 6

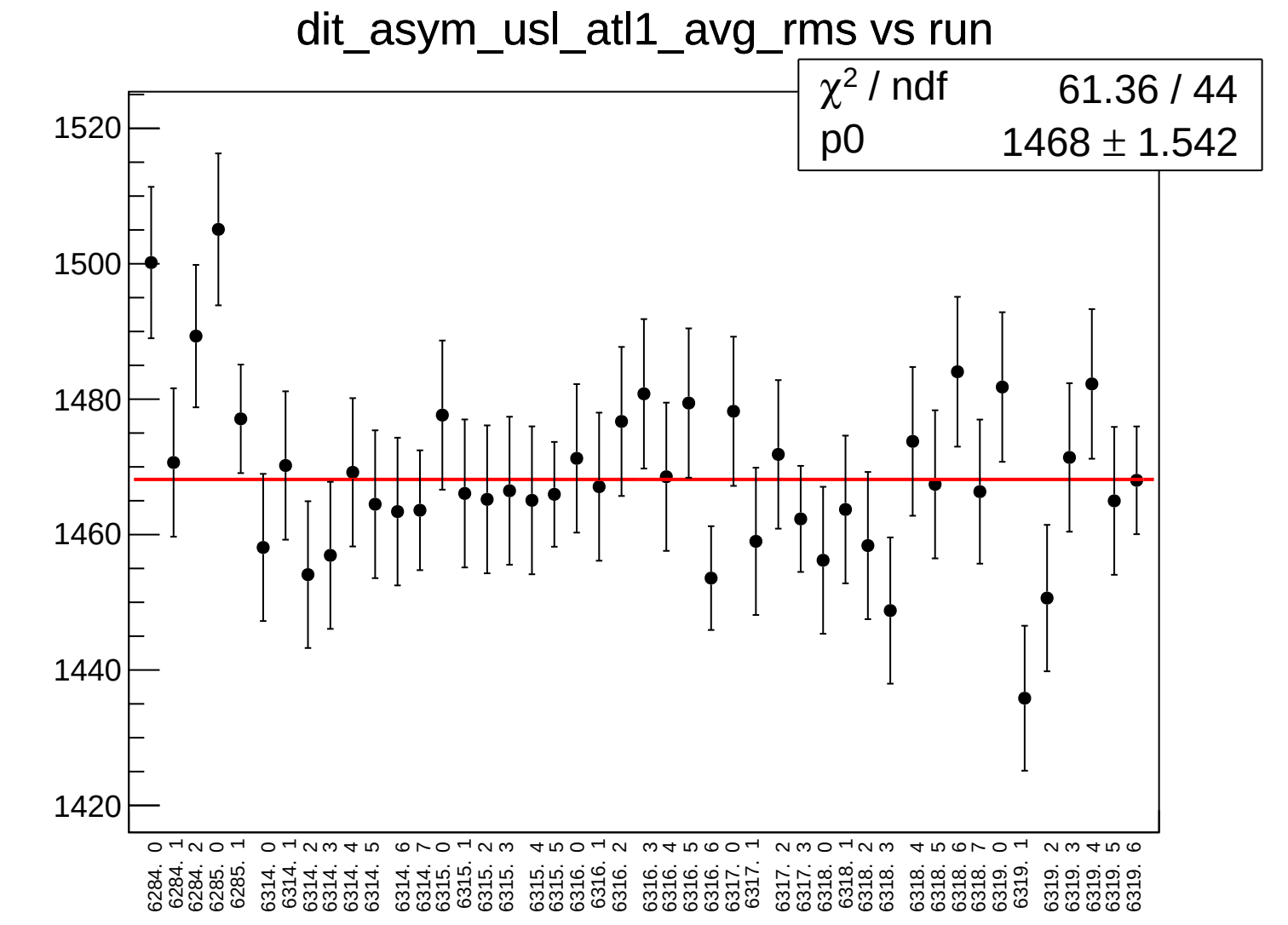

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 42.29 / 44
p0 −915.5 ± 1152
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −7420
Std Dev 0
1
0
−1
−2
−3

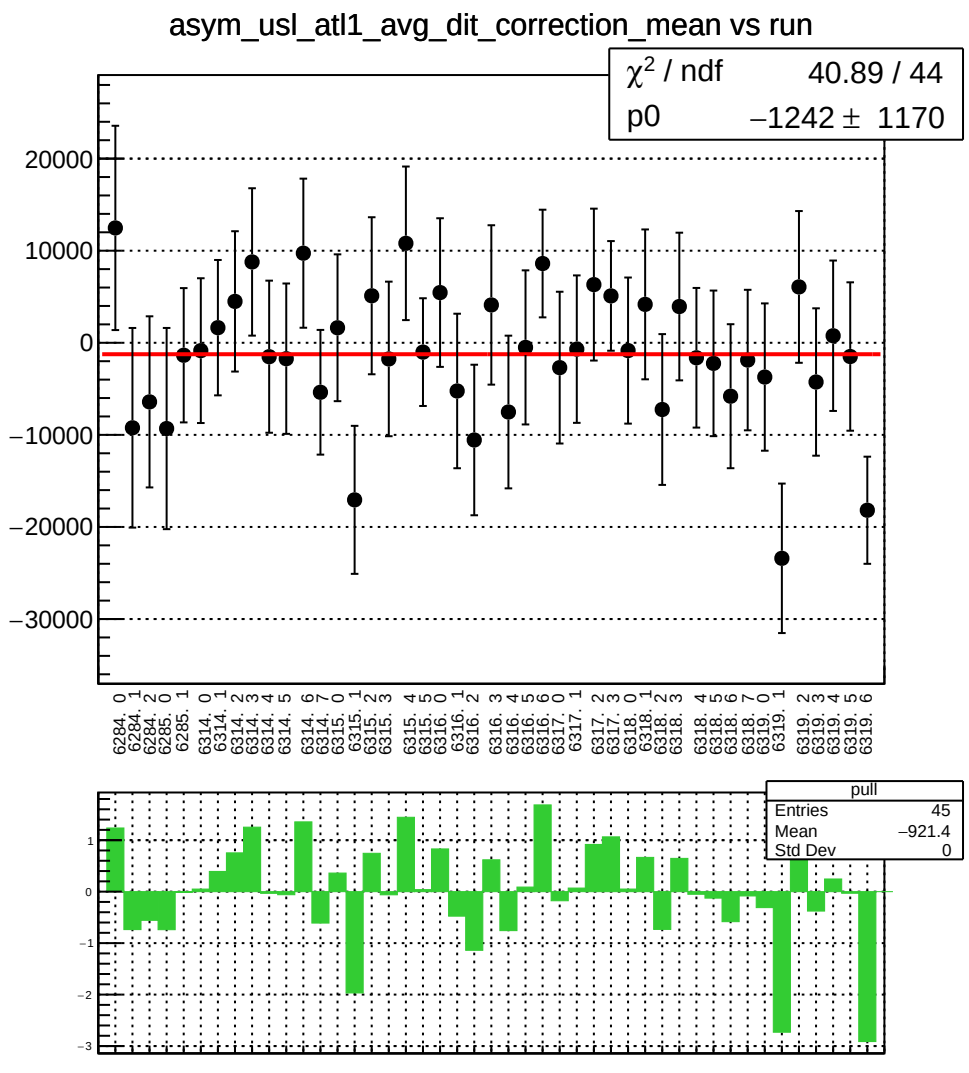

pull1D
Entries 45
Mean 0.0003605
Std Dev 0.9694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

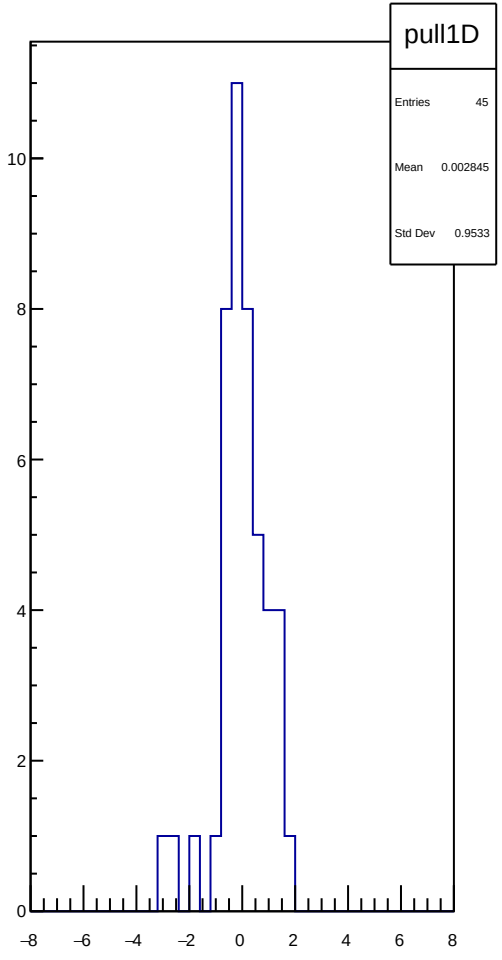

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.977e+04 / 44
p0 767.6 ± 0.8148
1400
1300
1200
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

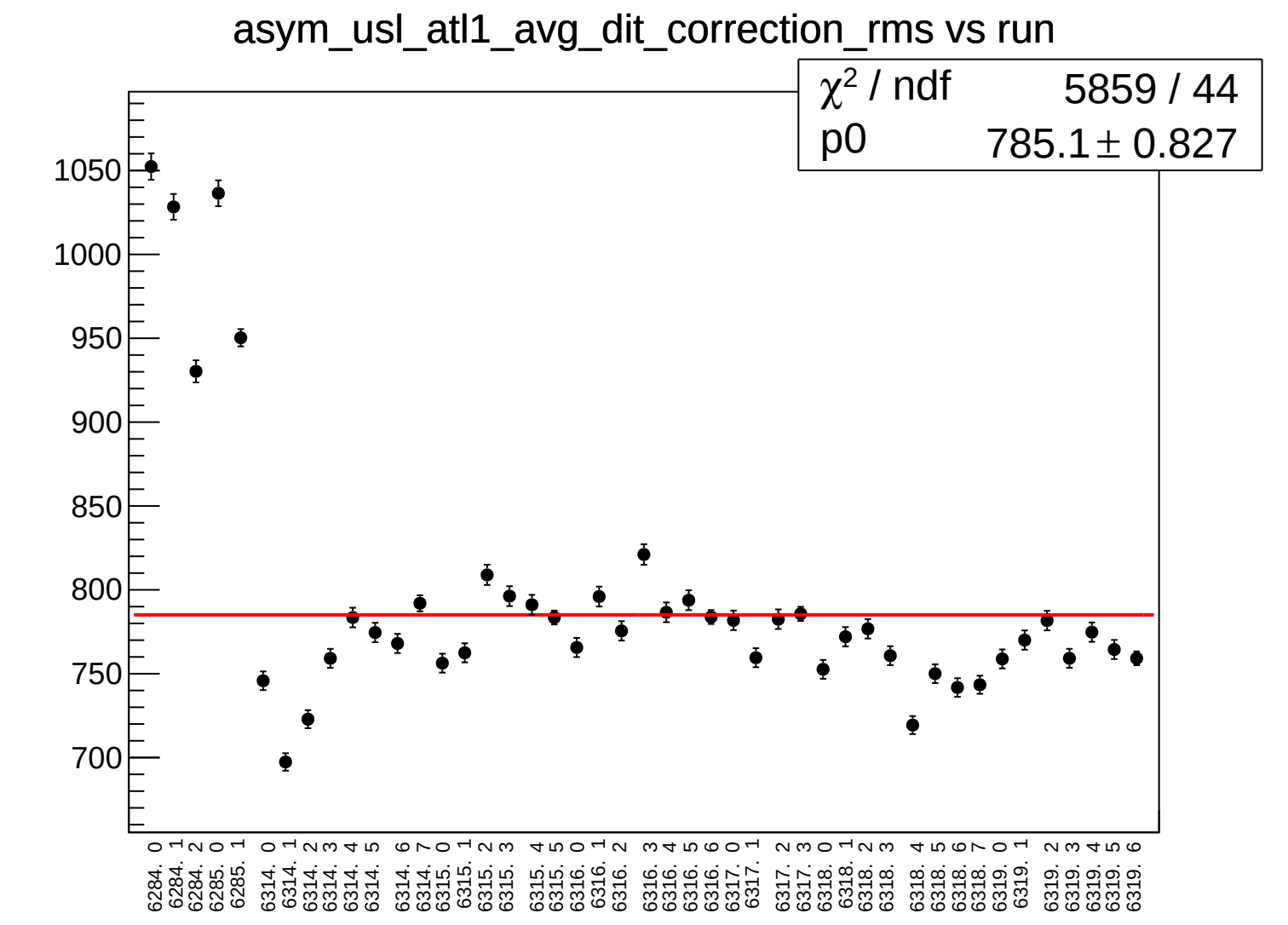

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 35.2 / 44
p0 1124 ± 2180
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 114.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003727
Std Dev 0.8844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 61.36 / 44
p0 1468 ± 1.542
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 40.89 / 44
p0 −1242 ± 1170
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −921.4
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002845
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5859 / 44
p0 785.1 ± 0.827
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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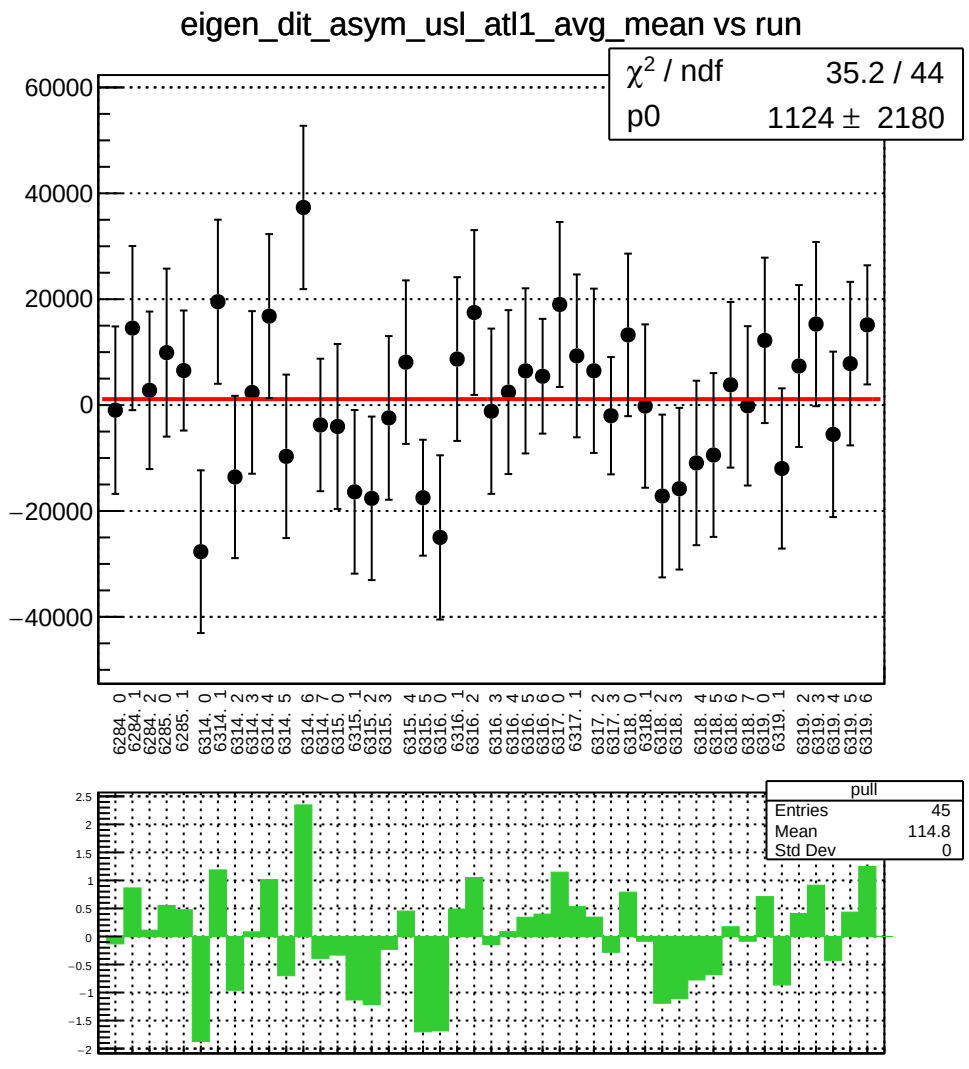
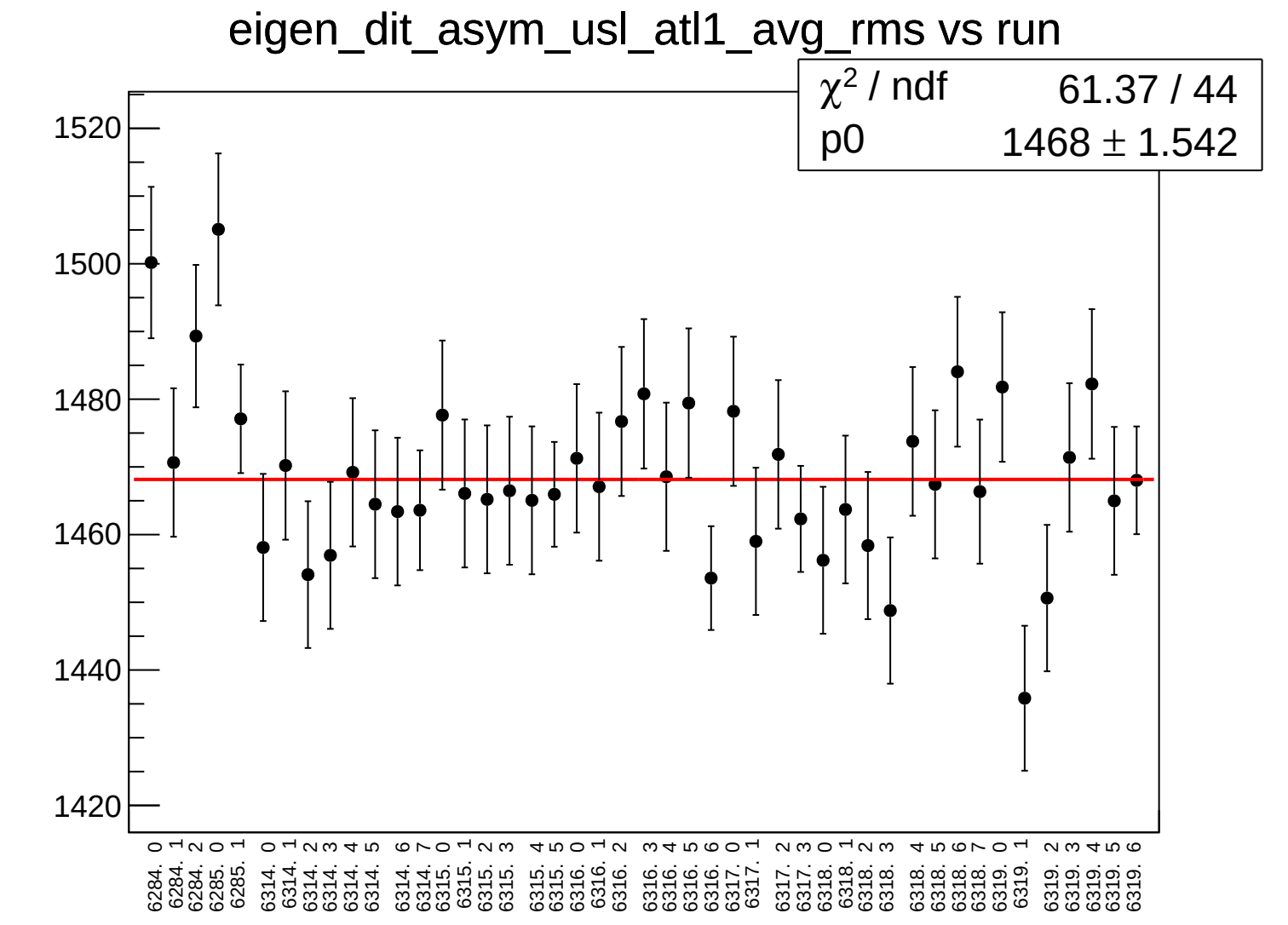
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 35.2 / 44
p0 1124 ± 2180
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 114.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003727
Std Dev 0.8844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 61.37 / 44
p0 1468 ± 1.542
1520
1500
1480
1460
1440
1420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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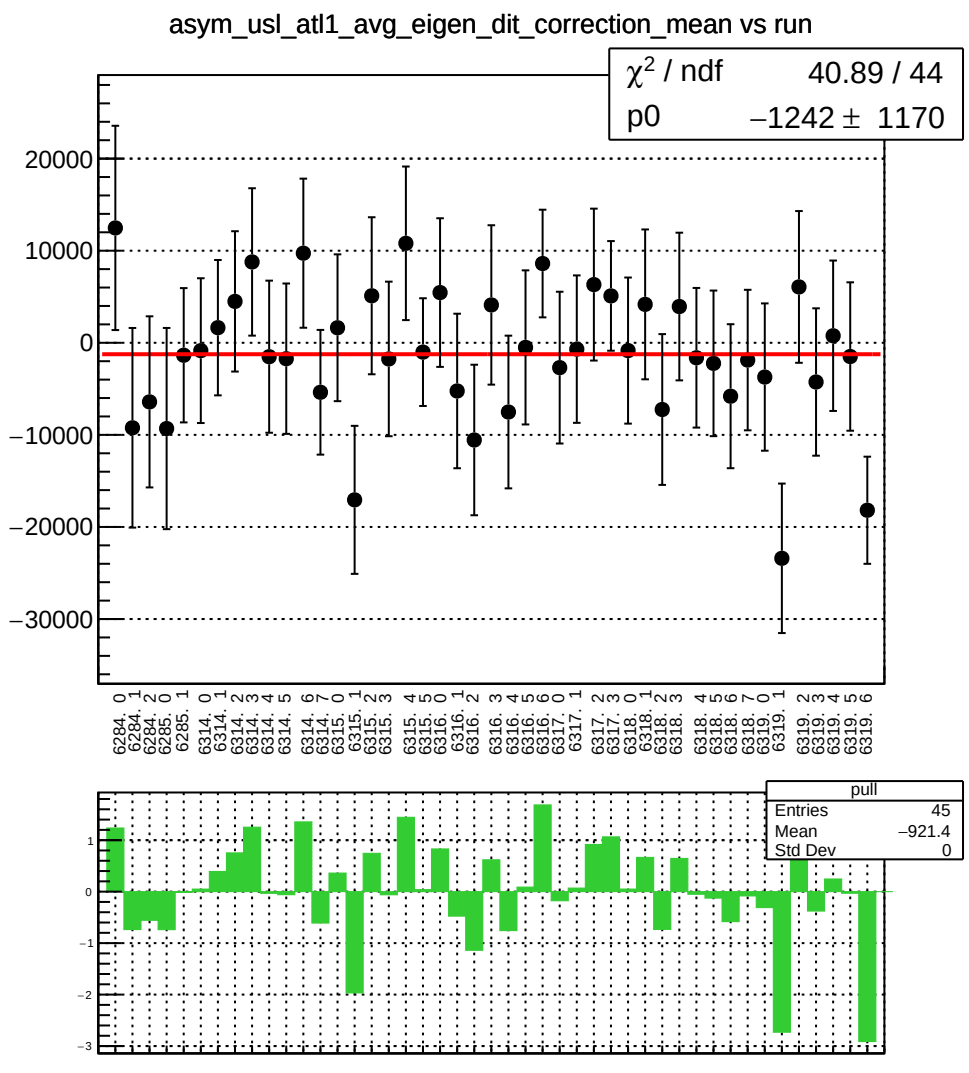
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.89 / 44
p0 −1242 ± 1170
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
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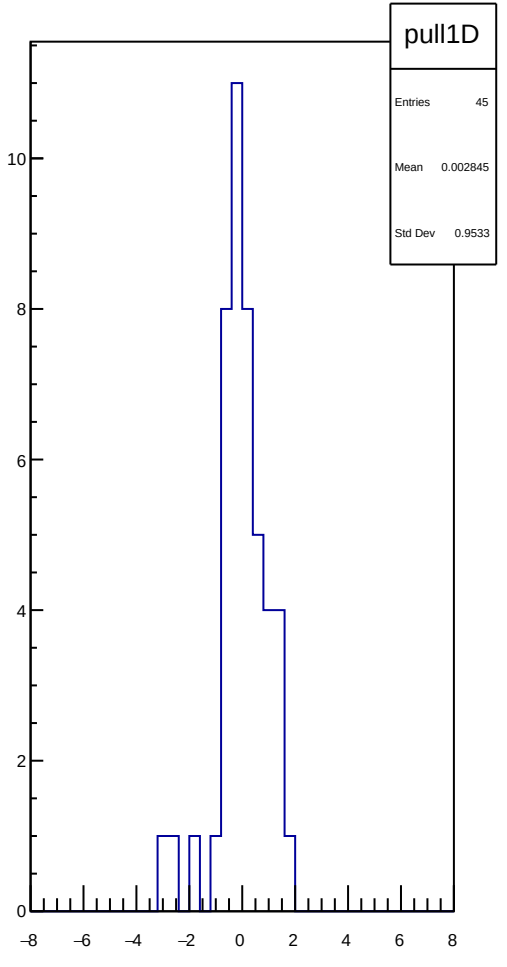
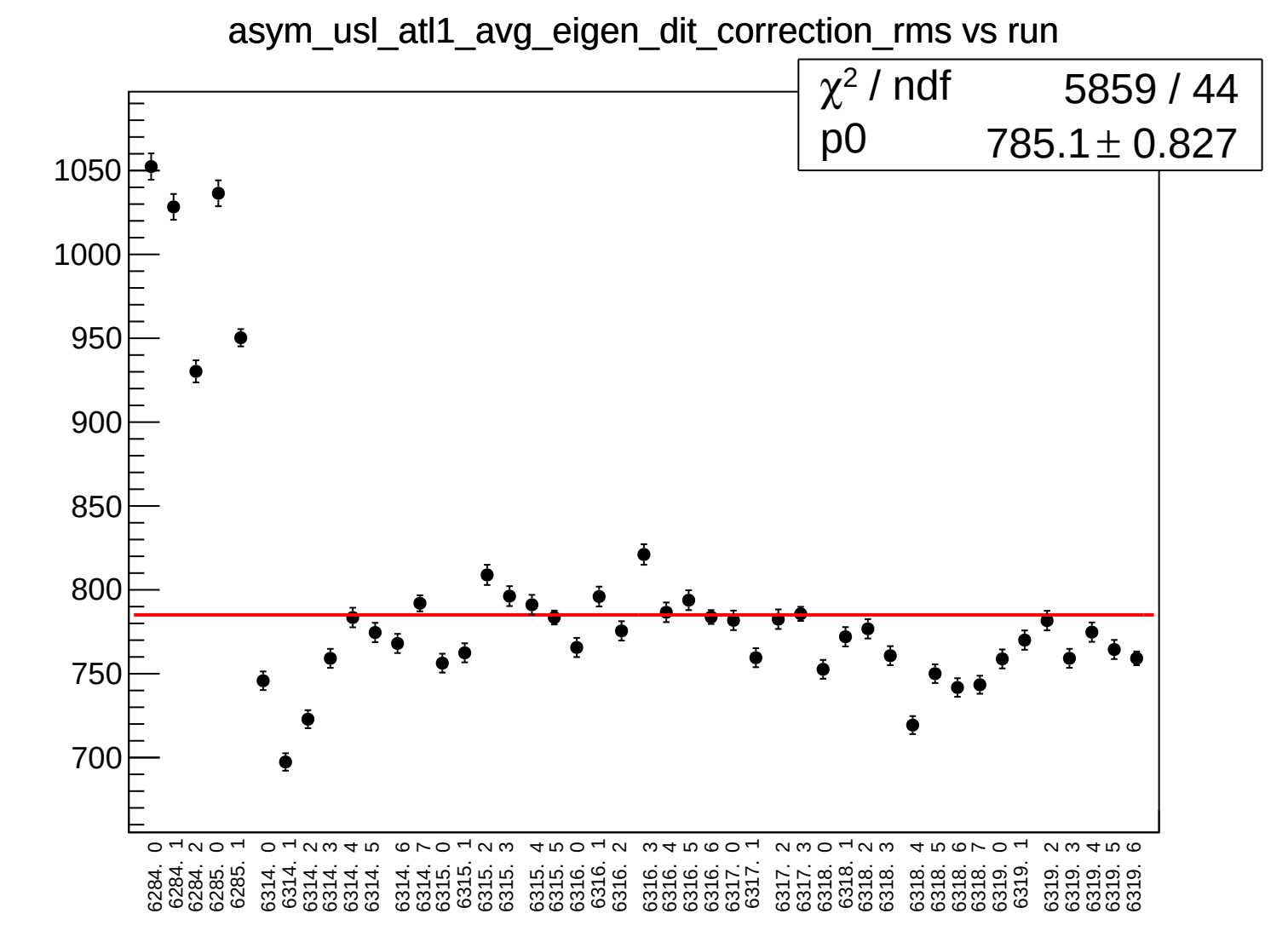
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −921.4
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002845
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5859 / 44
p0 785.1 ± 0.827
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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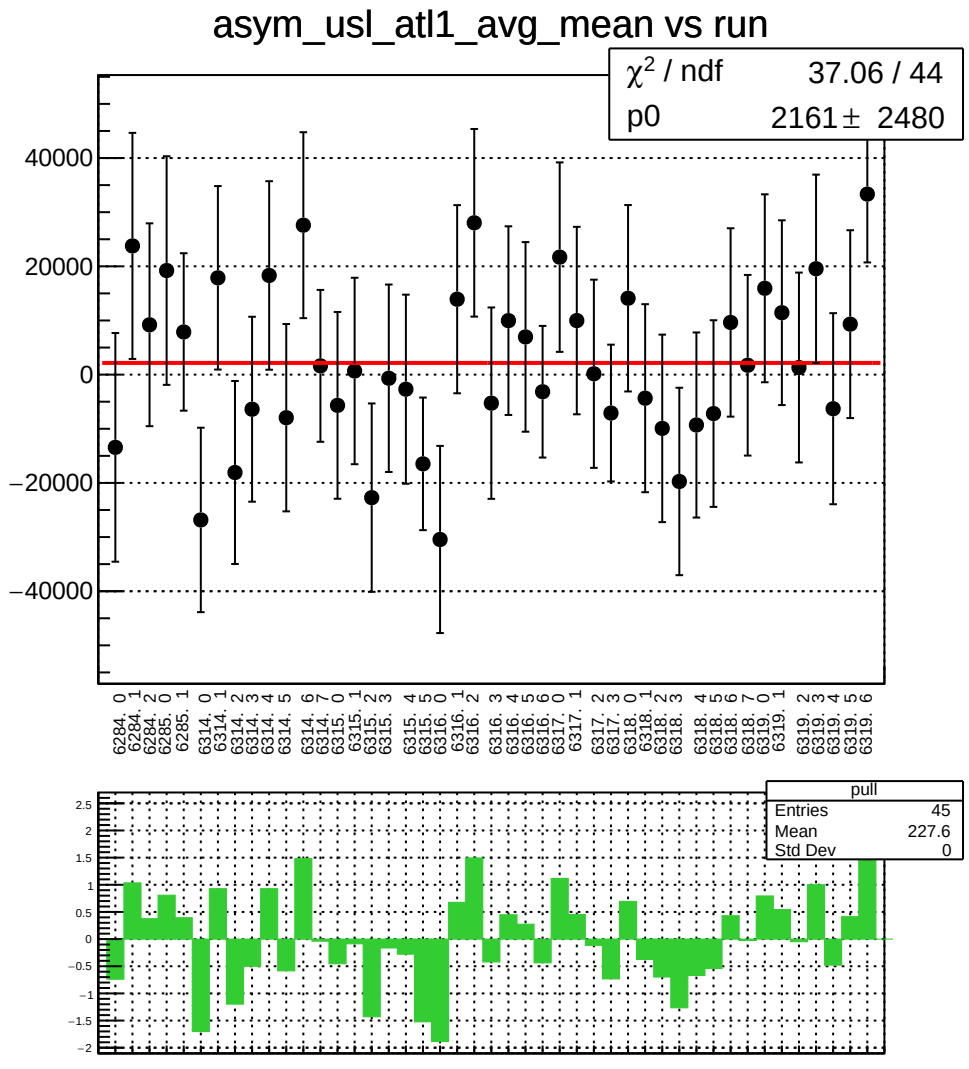
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_mean vs run
χ² / ndf 37.06 / 44
p0 2161 ± 2480
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 4
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6316. 2
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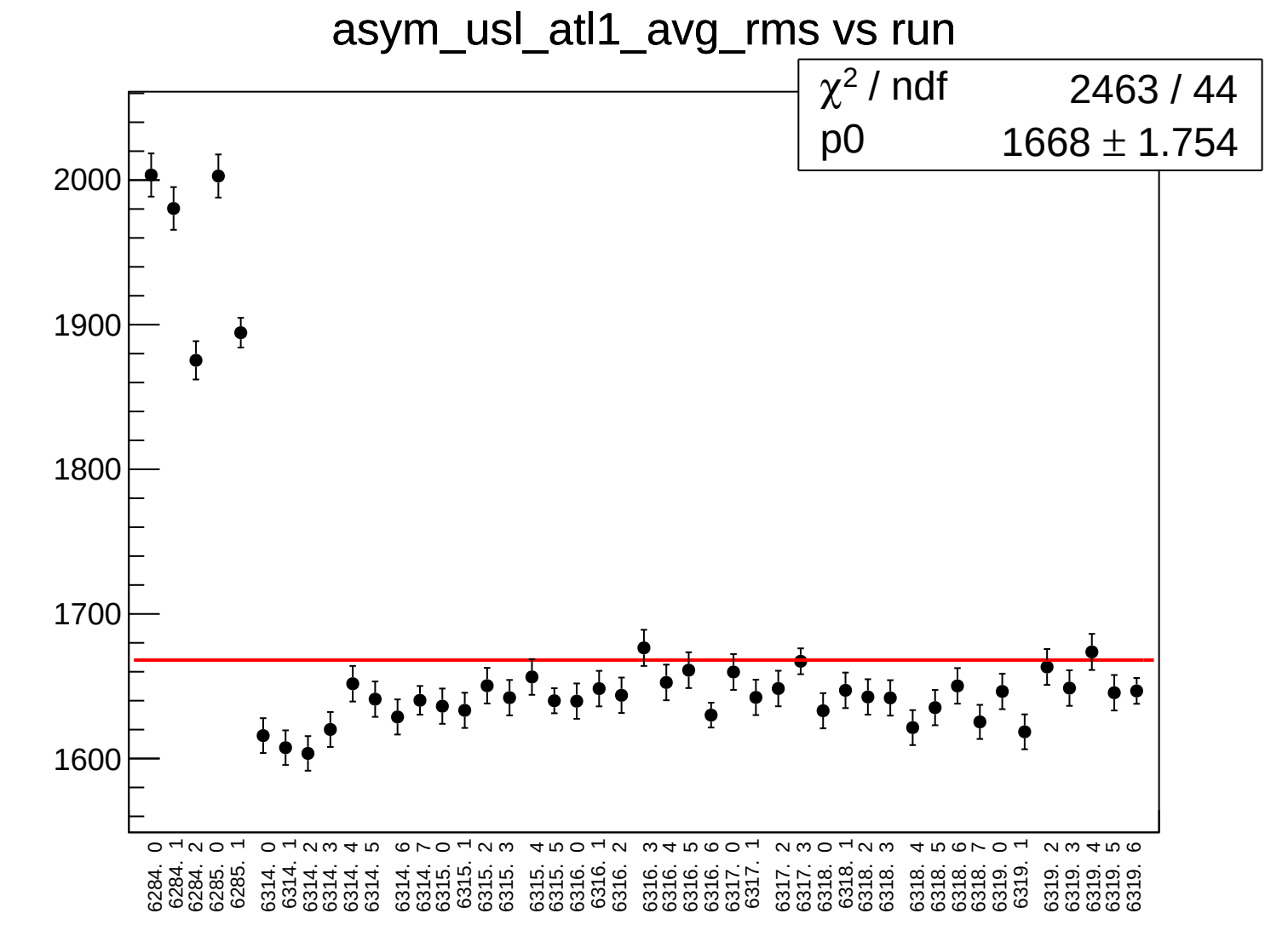
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 227.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008089
Std Dev 0.9075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_rms vs run
χ² / ndf 2463 / 44
p0 1668 ± 1.754
2000
1900
1800
1700
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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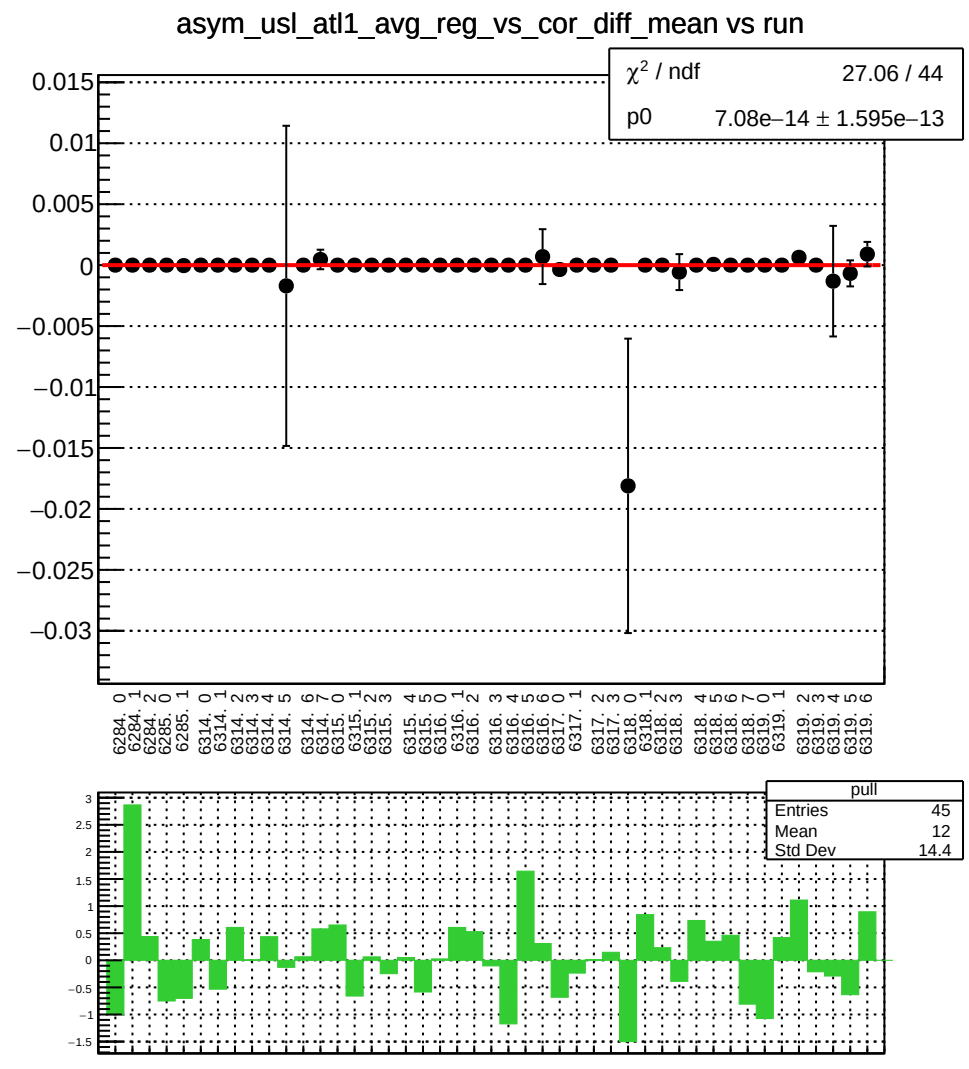
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.06 / 44
p0 7.08e−14 ± 1.595e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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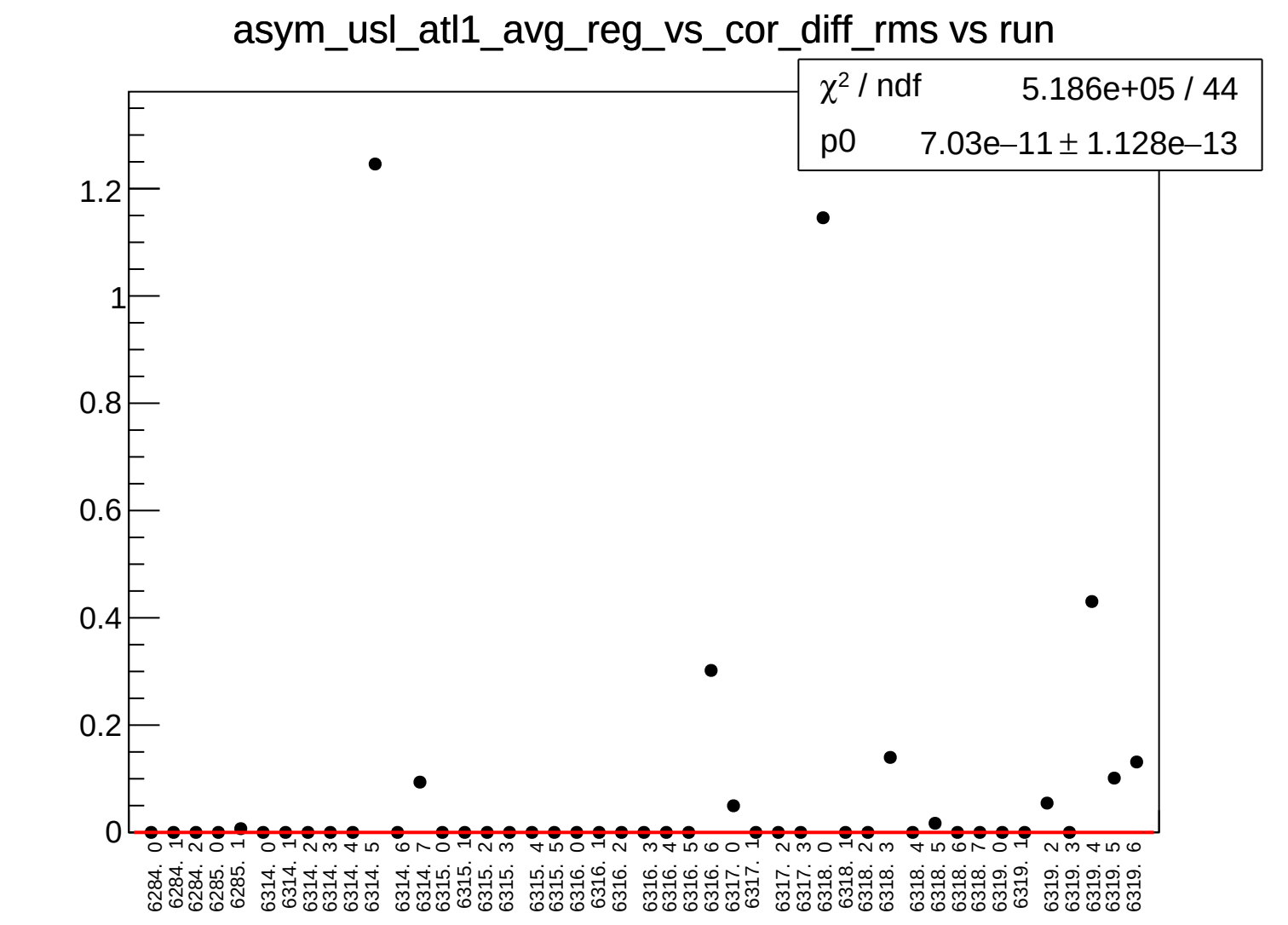
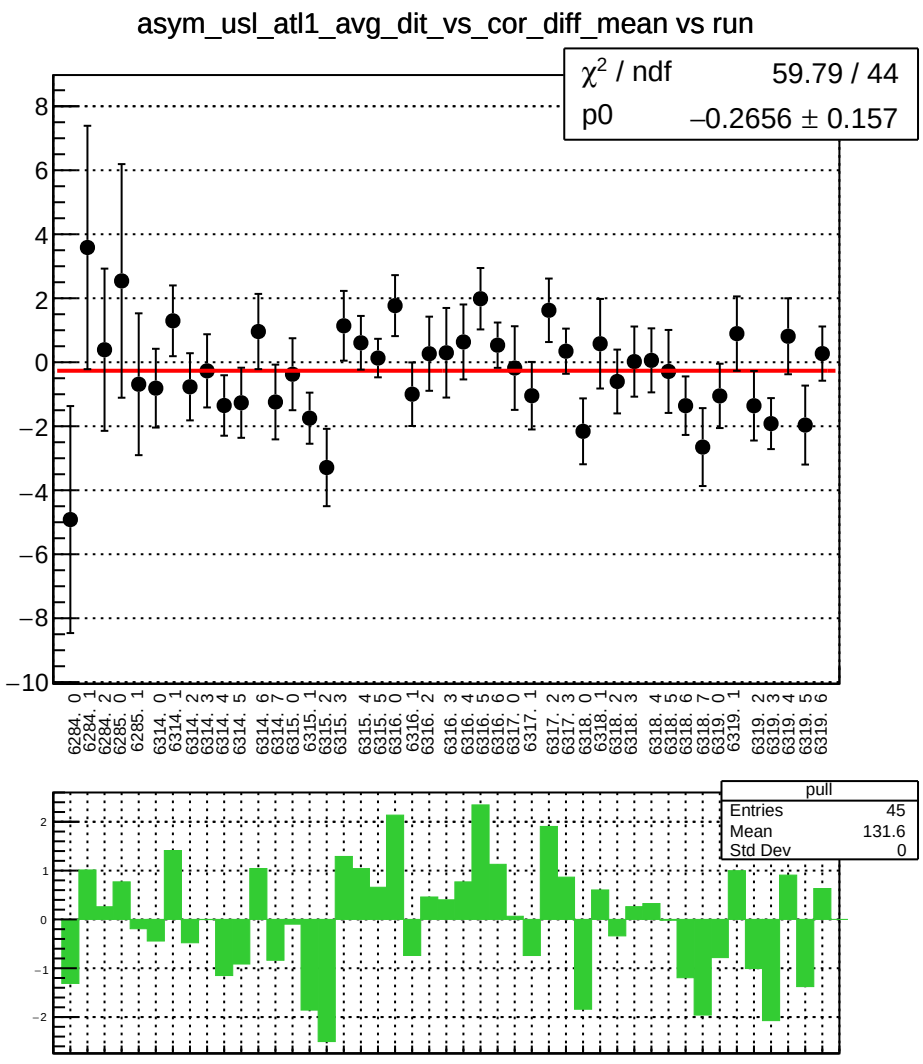
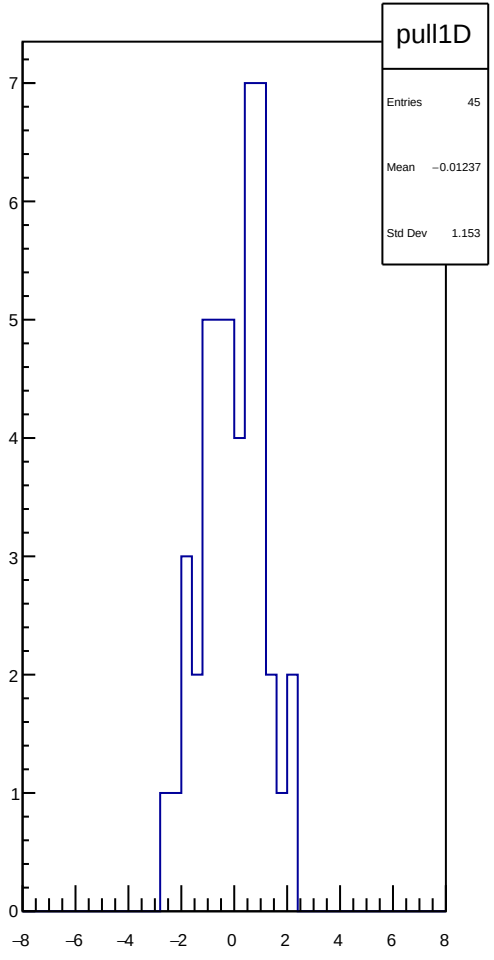
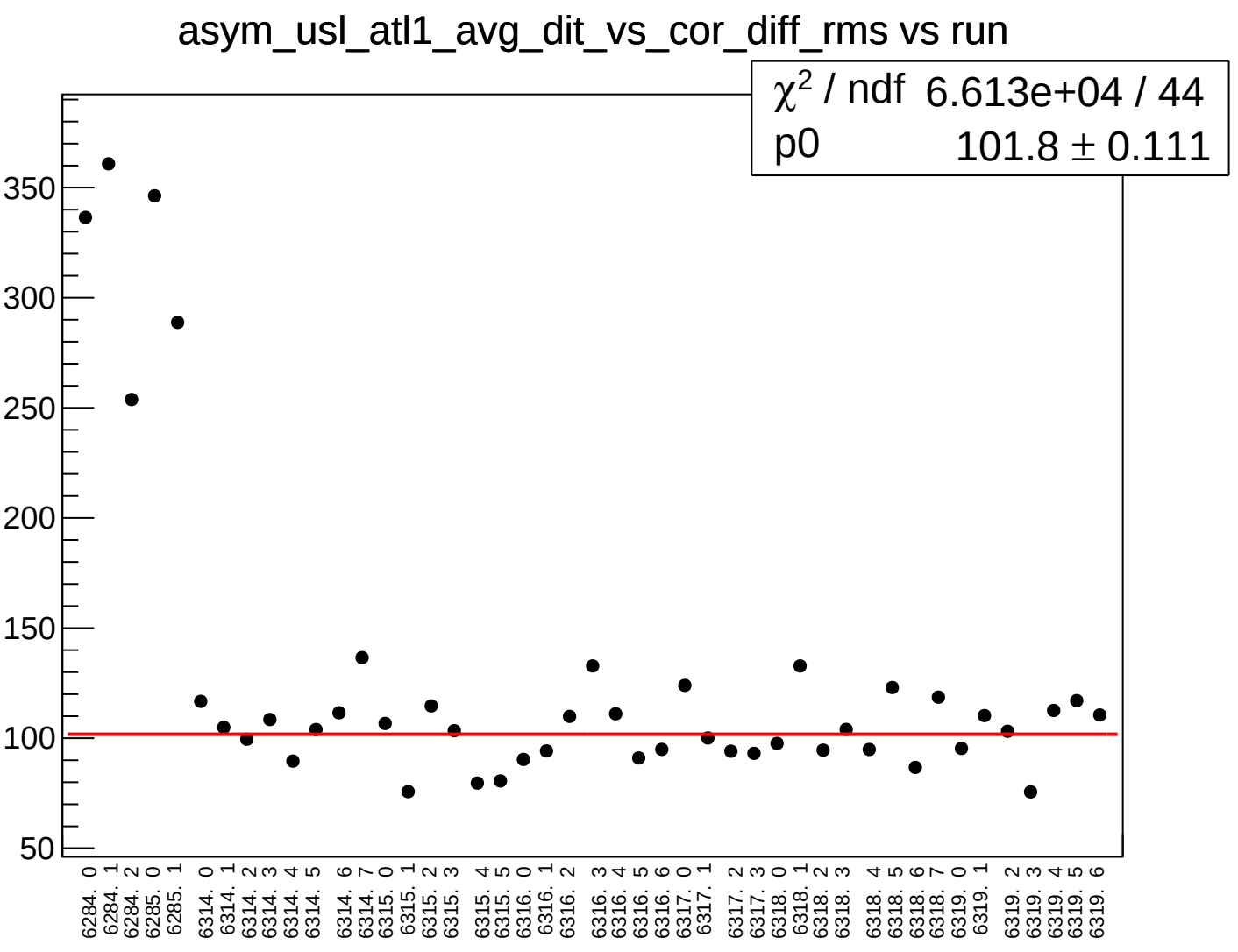
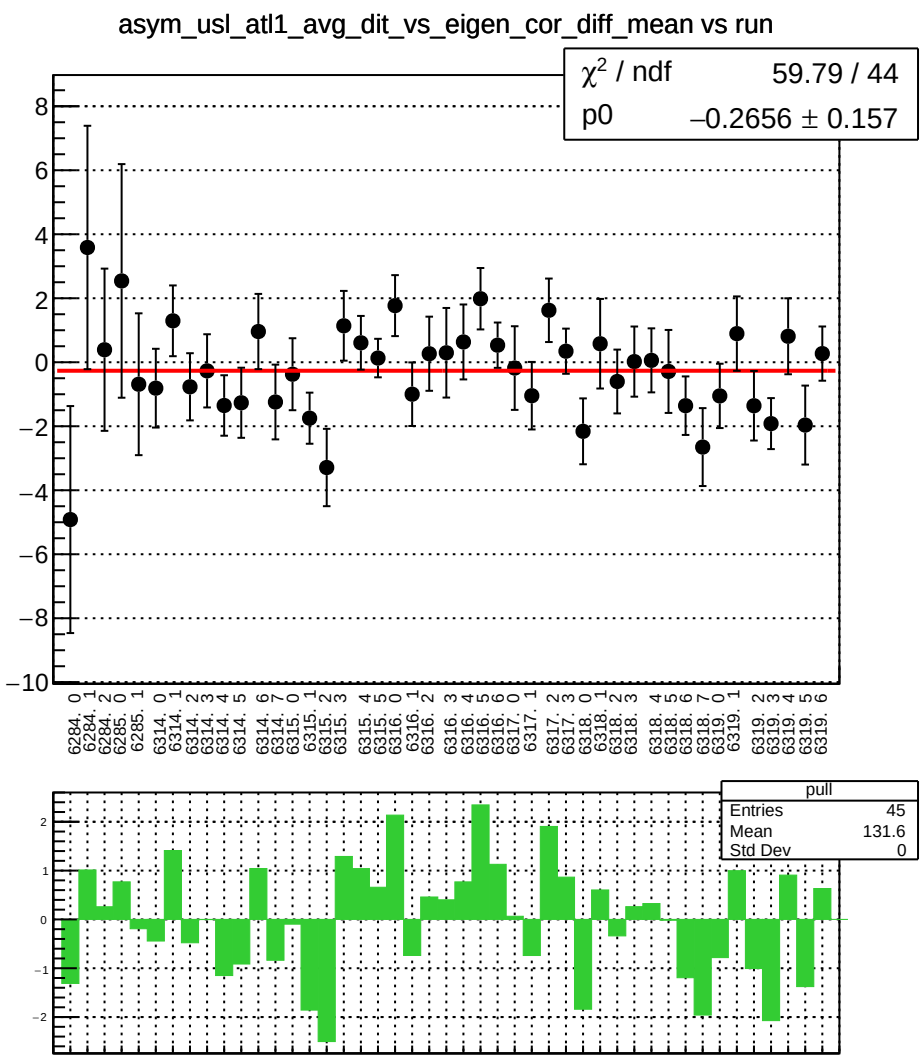
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12
Std Dev 14.4
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0613
Std Dev 0.773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

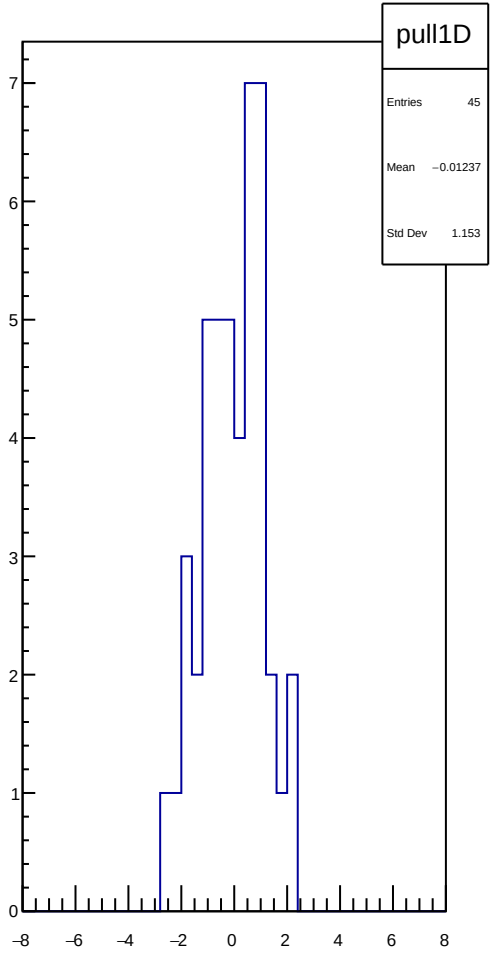

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.186e+05 / 44
p0 7.03e−11 ± 1.128e−13
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

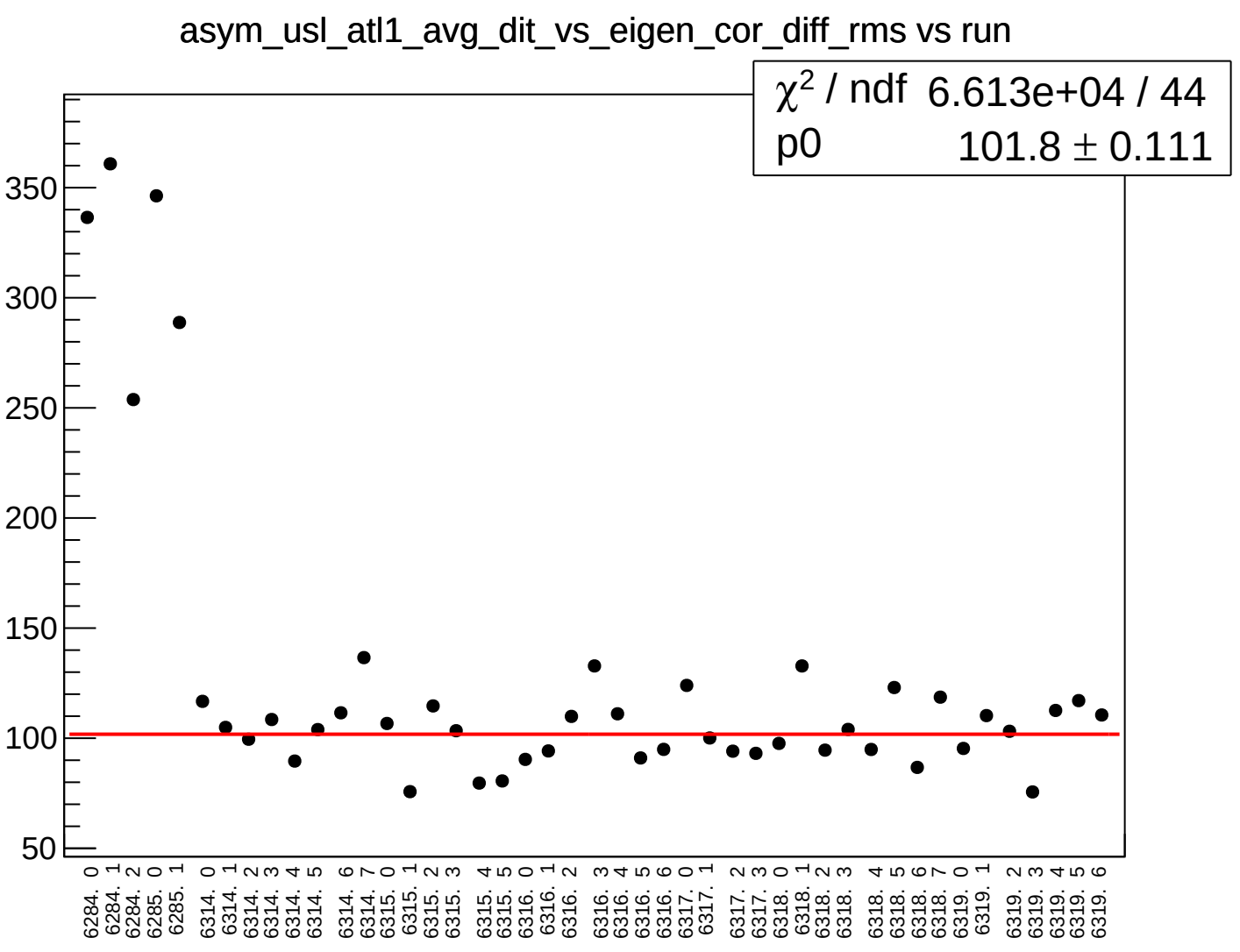

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 59.79 / 44
p0 −0.2656 ± 0.157
pull
Entries 45
Mean 131.6
Std Dev 0


pull1D
Entries 45
Mean −0.01237
Std Dev 1.153


asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.613e+04 / 44
p0 101.8 ± 0.111
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.79 / 44
p0 −0.2656 ± 0.157
pull
Entries 45
Mean 131.6
Std Dev 0


pull1D
Entries 45
Mean −0.01237
Std Dev 1.153


asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.613e+04 / 44
p0 101.8 ± 0.111
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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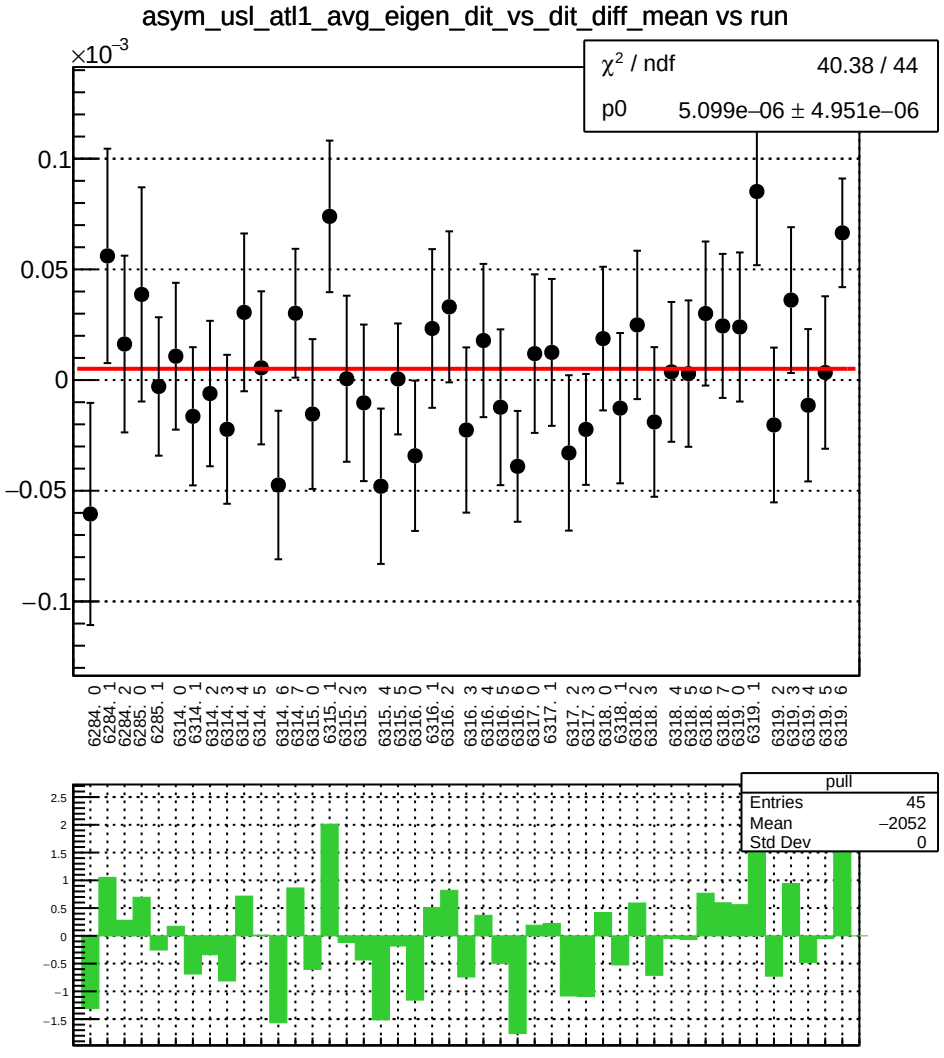
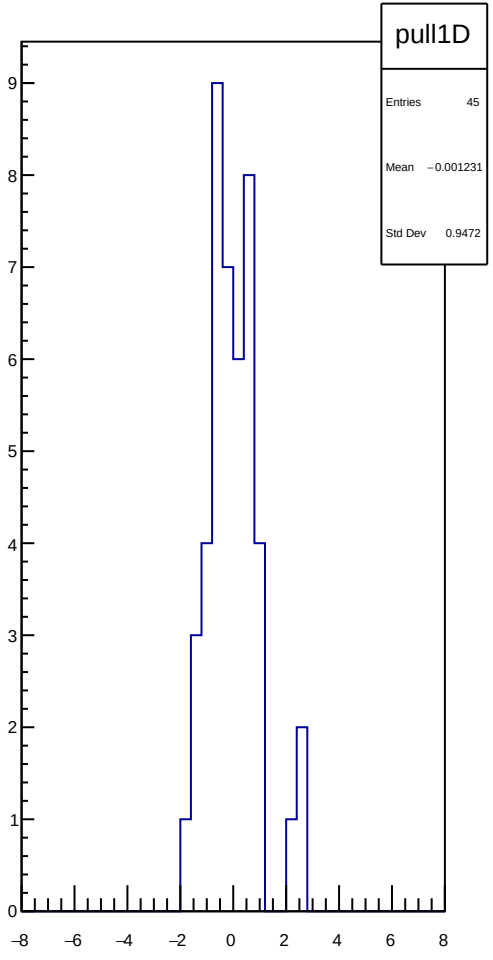
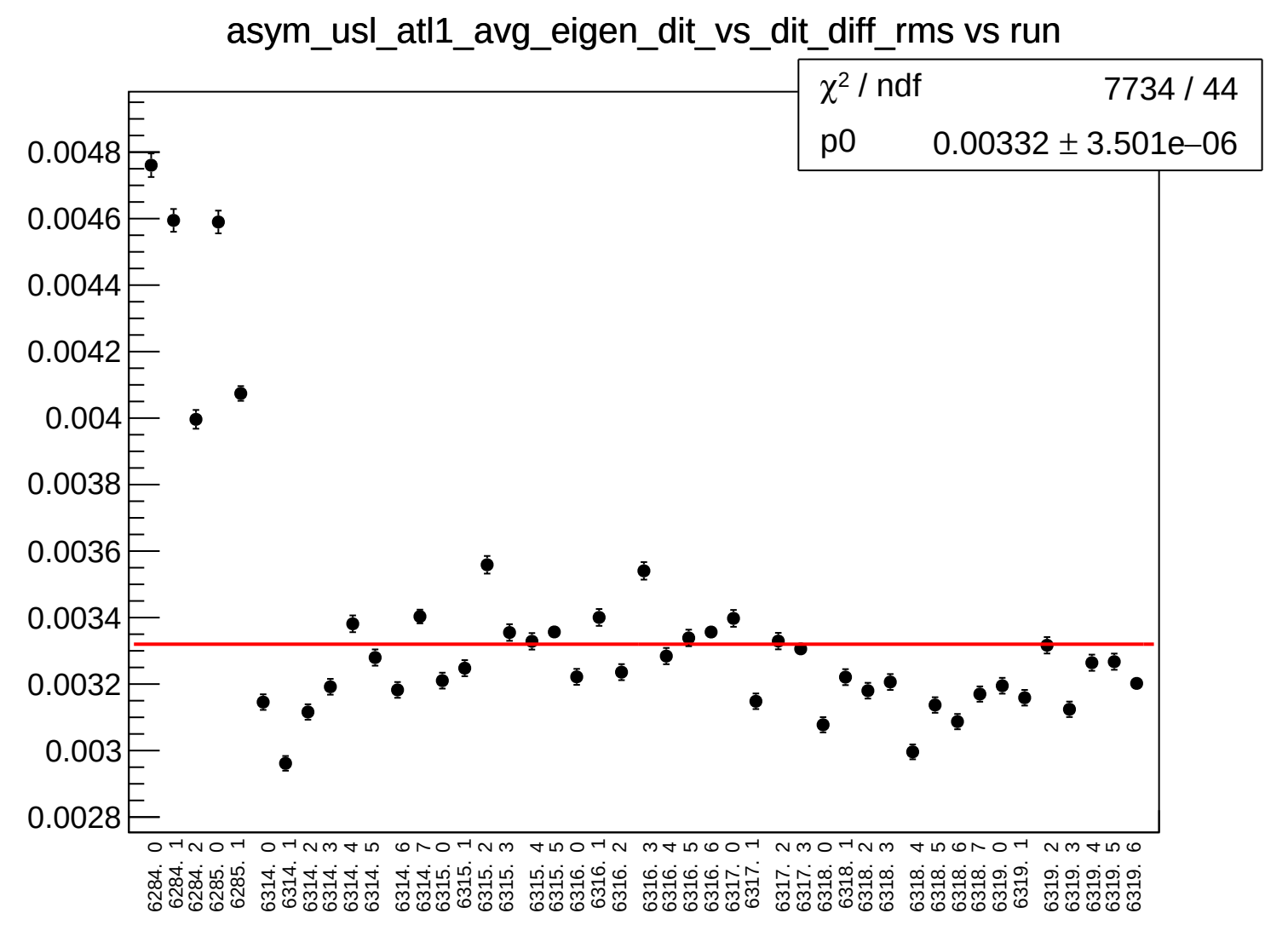
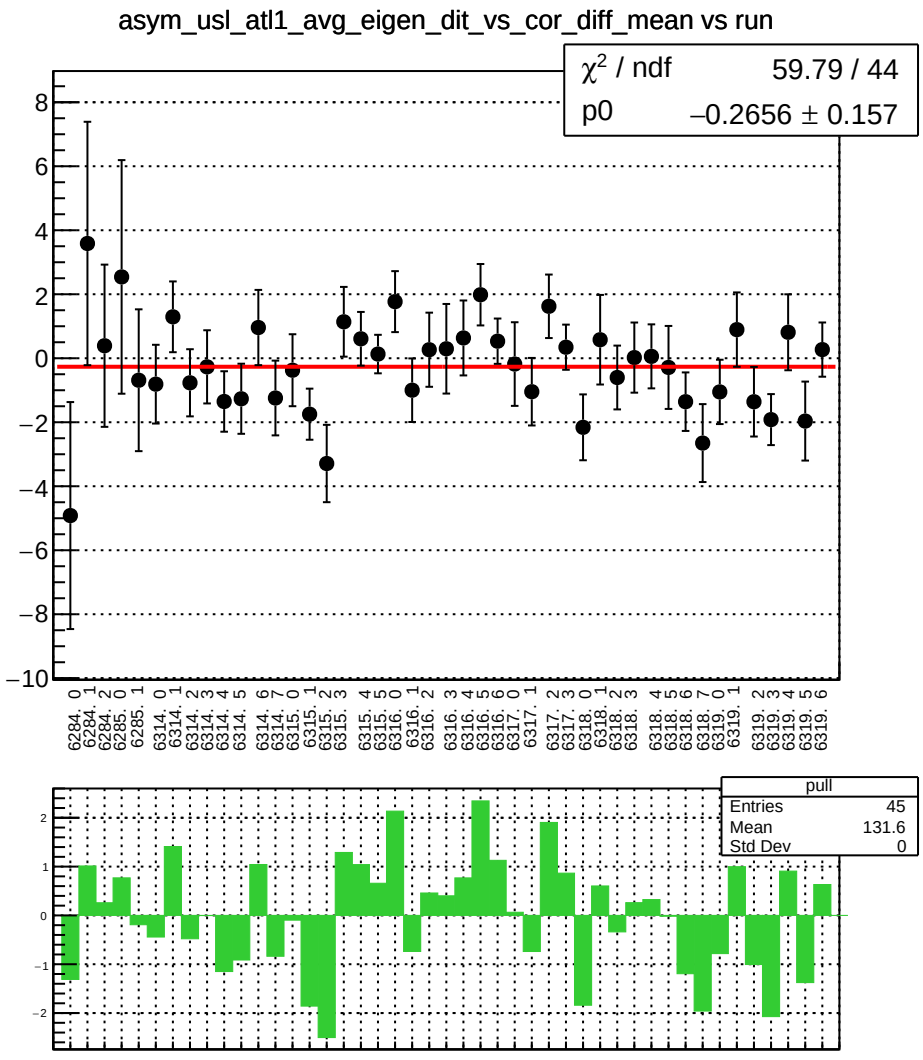
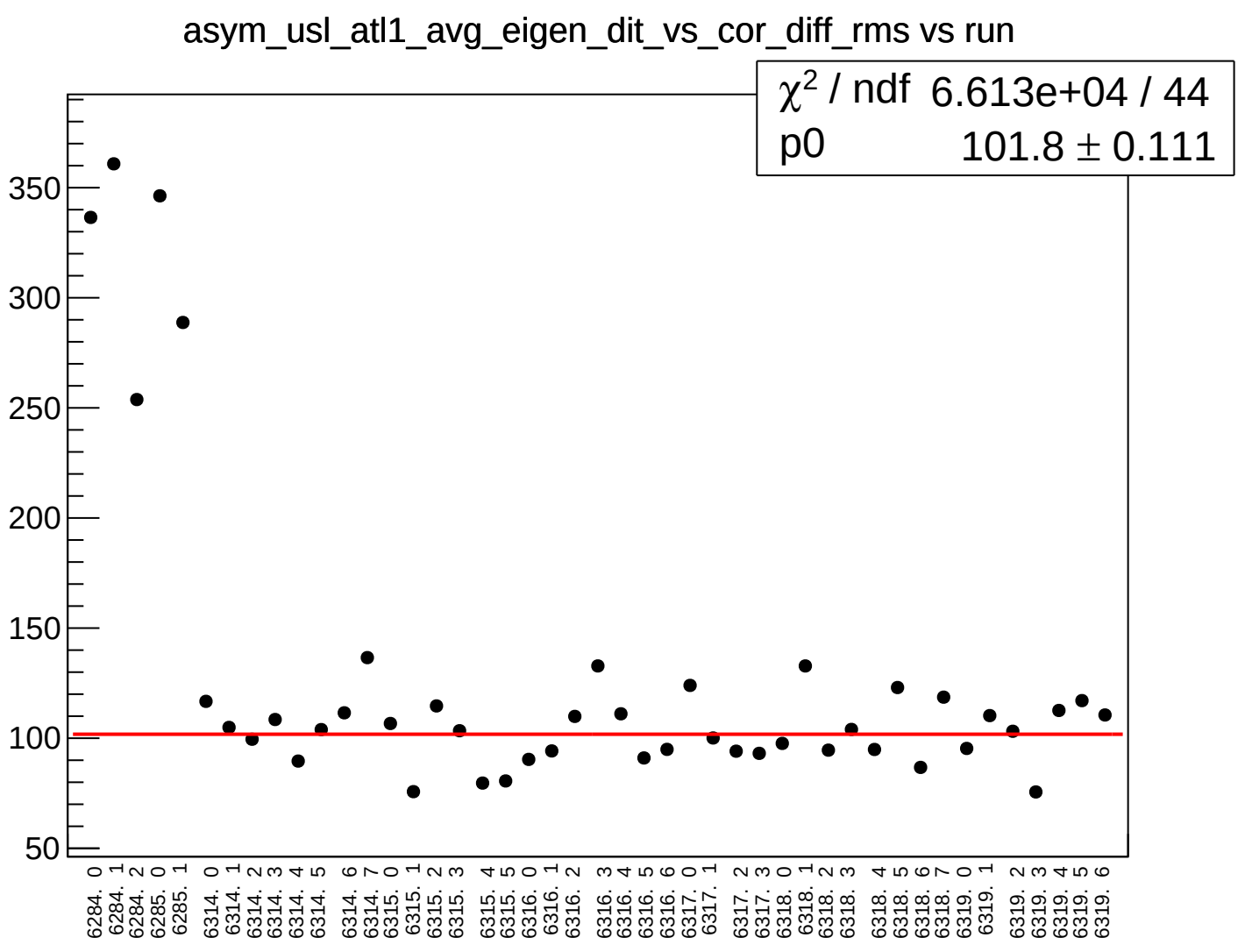
6319. 5
6319. 6

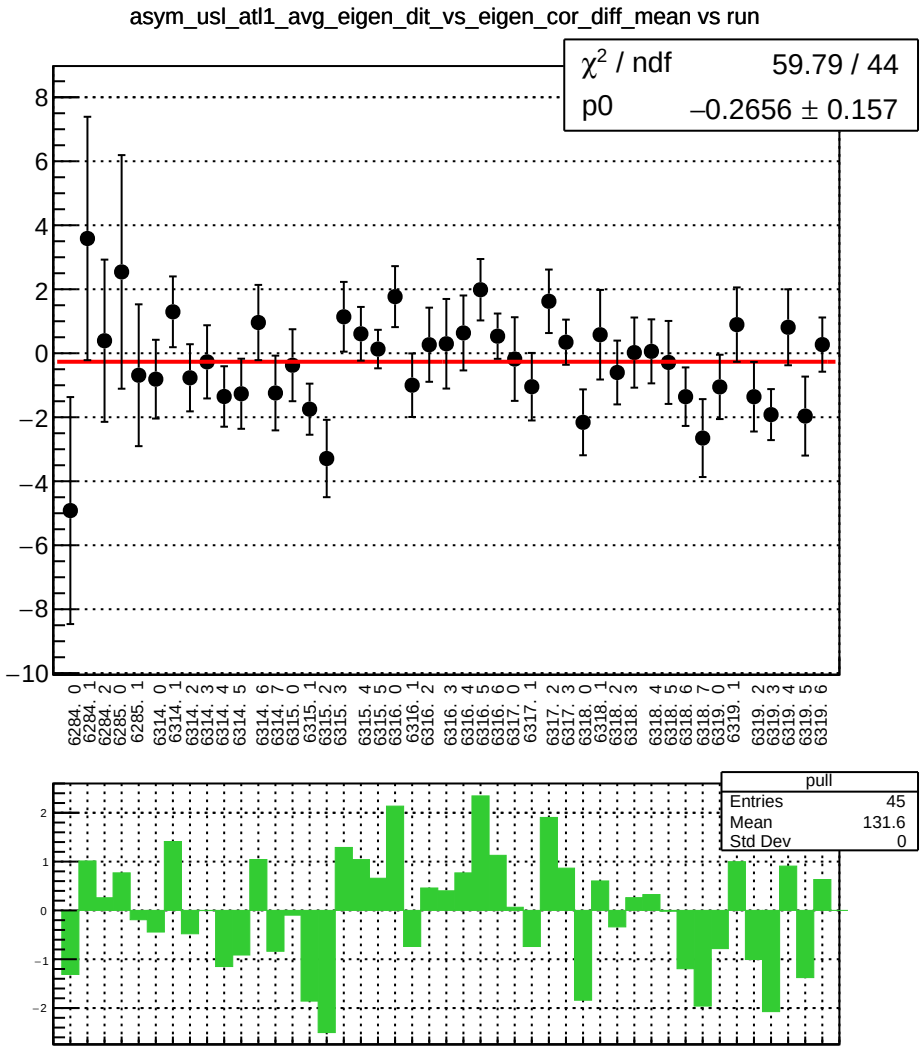

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.38 / 44
p0 5.099e−06 ± 4.951e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2052
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

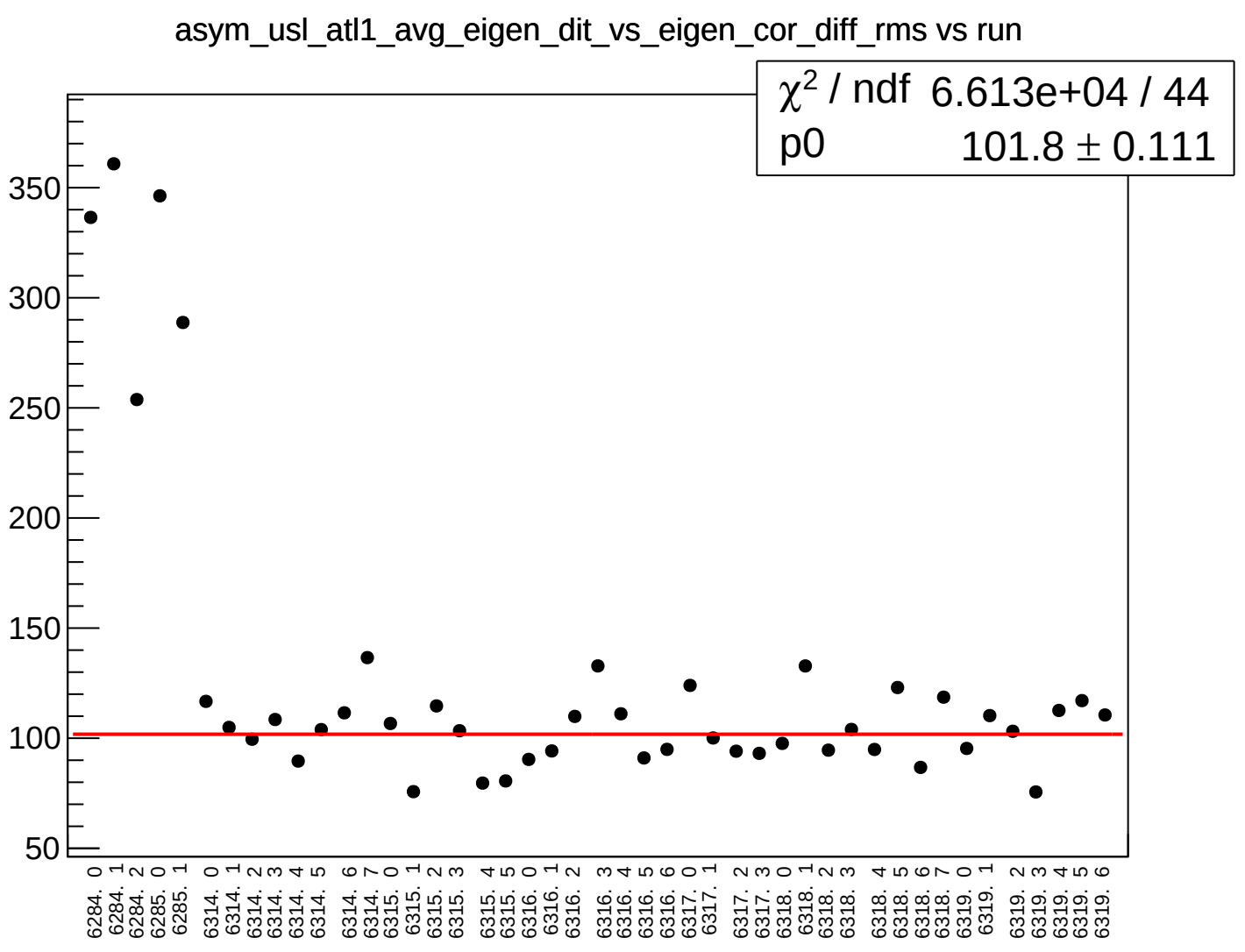

pull1D
Entries 45
Mean −0.001231
Std Dev 0.9472
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

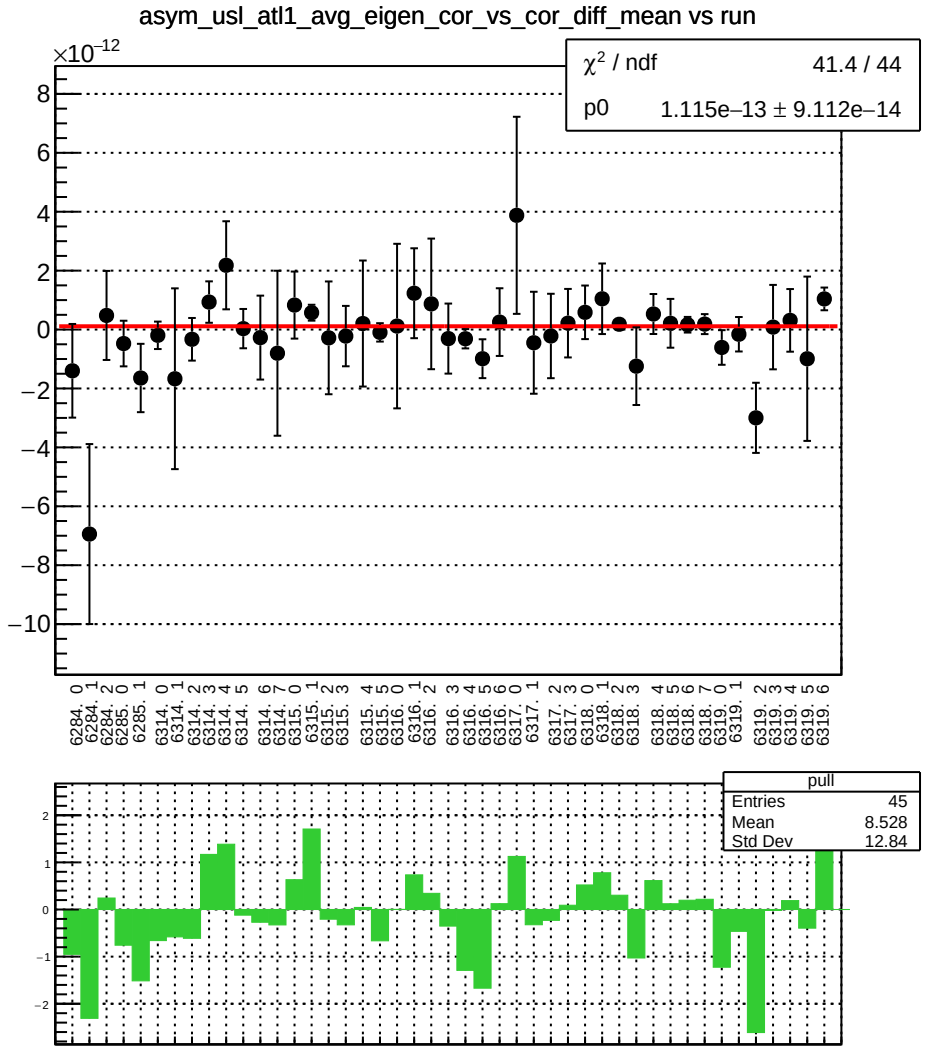

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7734 / 44
p0 0.00332 ± 3.501e–06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

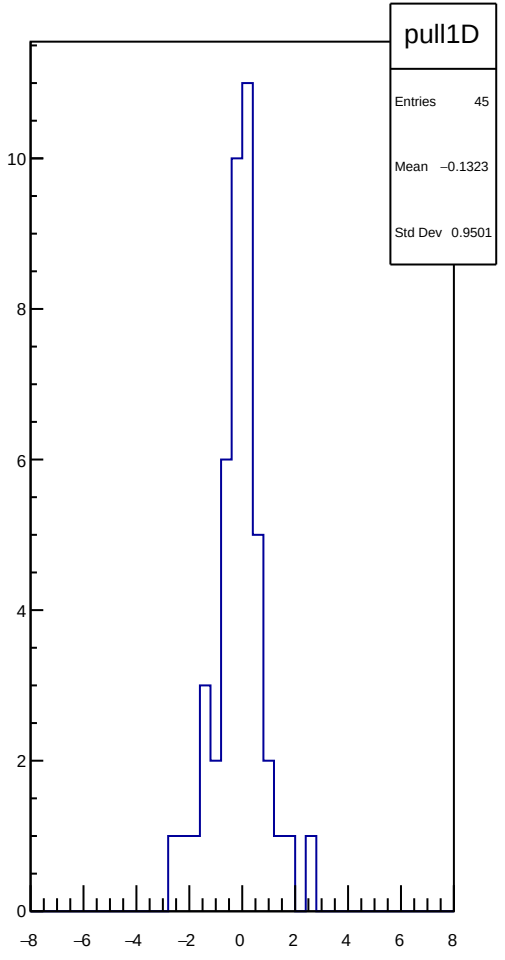

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.79 / 44
p0 −0.2656 ± 0.157
pull
Entries 45
Mean 131.6
Std Dev 0
pull1D
Entries 45
Mean −0.01237
Std Dev 1.153

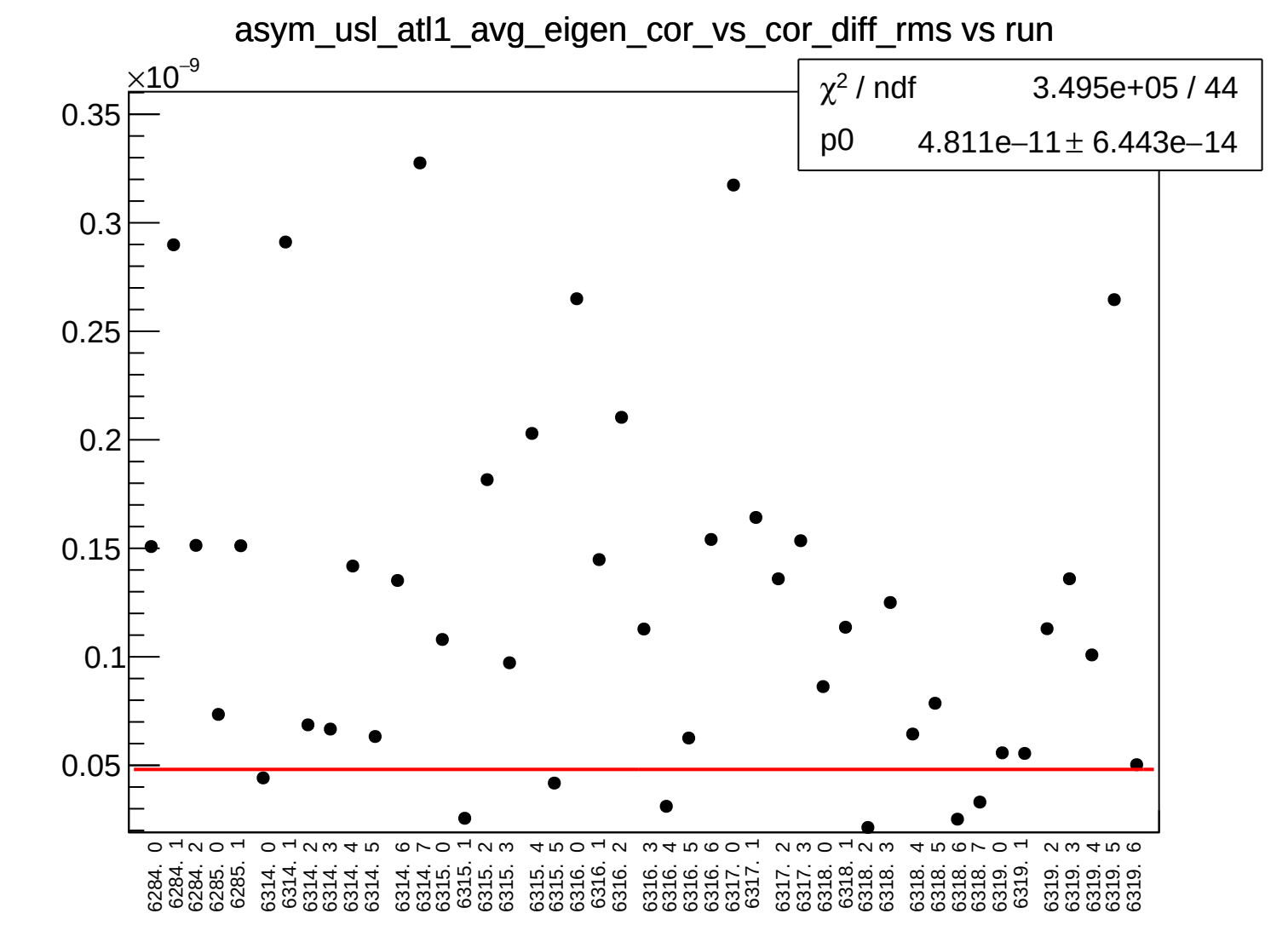

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.613e+04 / 44
p0 101.8 ± 0.111
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

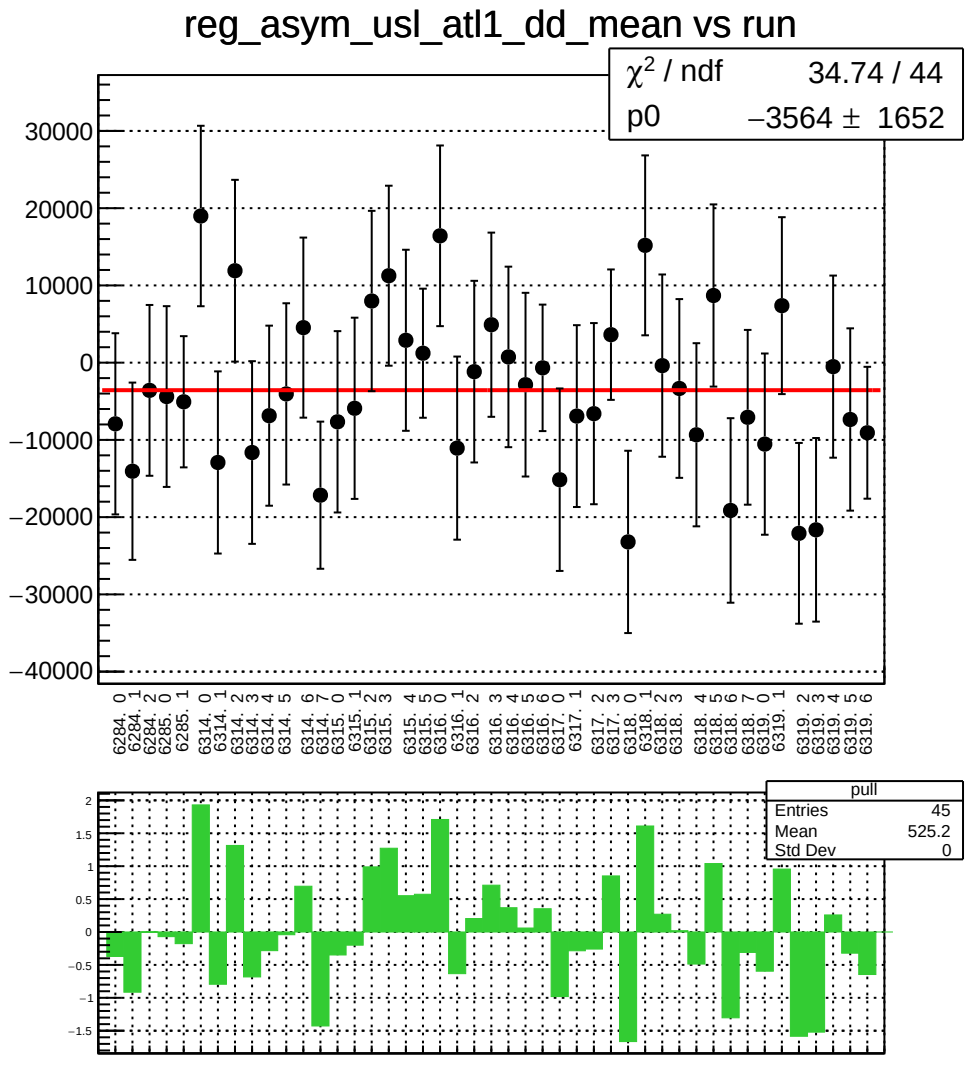

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.79 / 44
p0 −0.2656 ± 0.157
pull
Entries 45
Mean 131.6
Std Dev 0
pull1D
Entries 45
Mean −0.01237
Std Dev 1.153

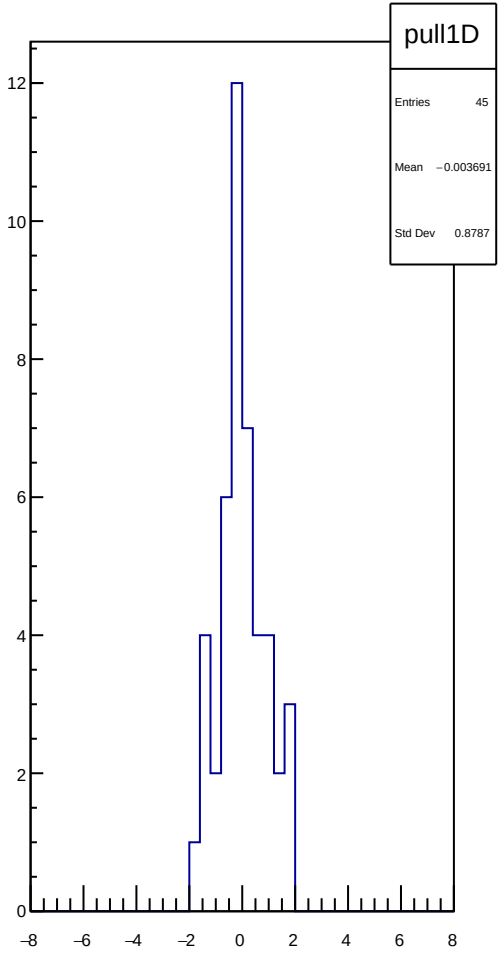

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.613e+04 / 44
p0 101.8 ± 0.111
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

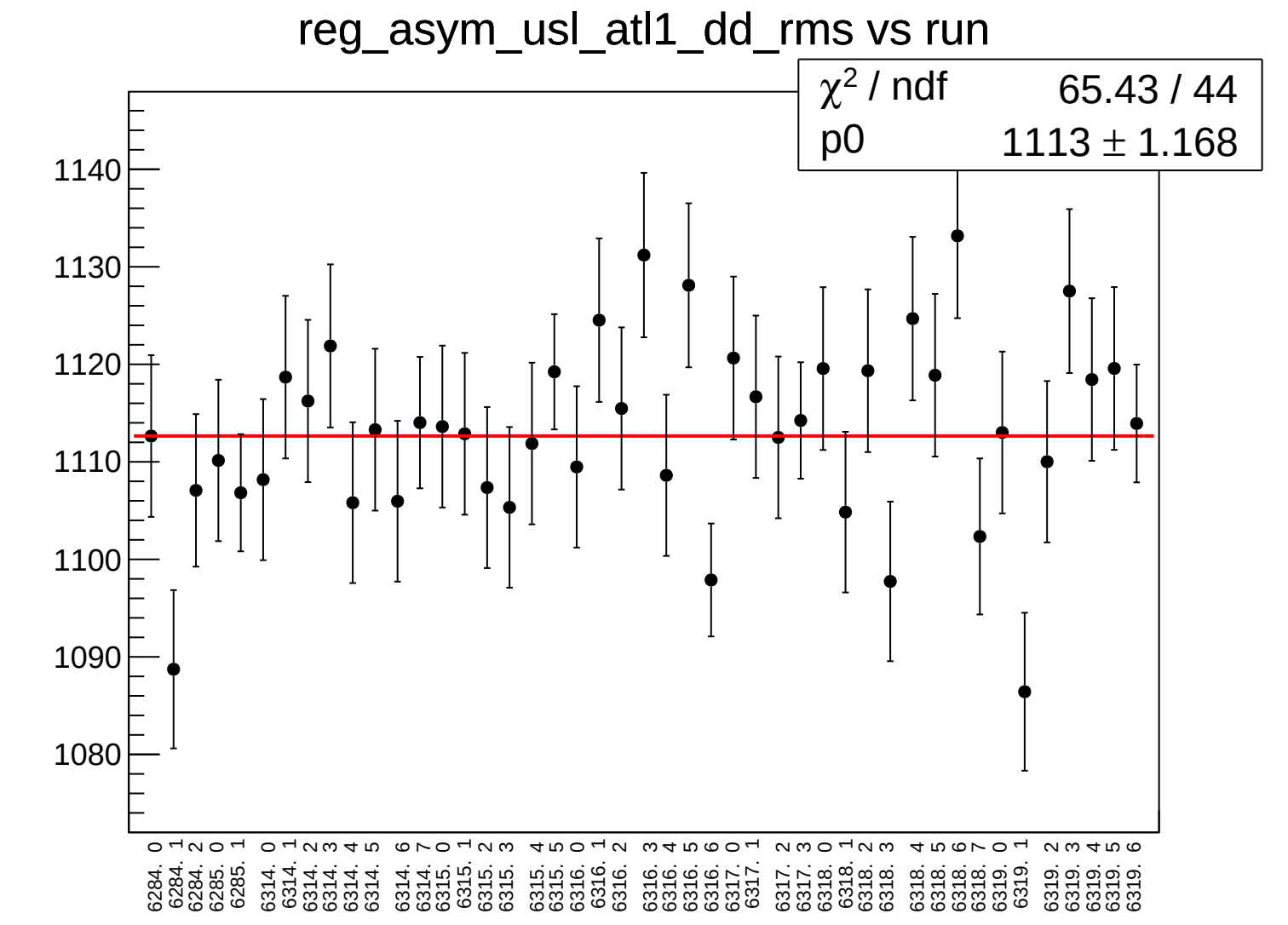

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.4 / 44
p0 1.115e−13 ± 9.112e−14
pull
Entries 45
Mean 8.528
Std Dev 12.84

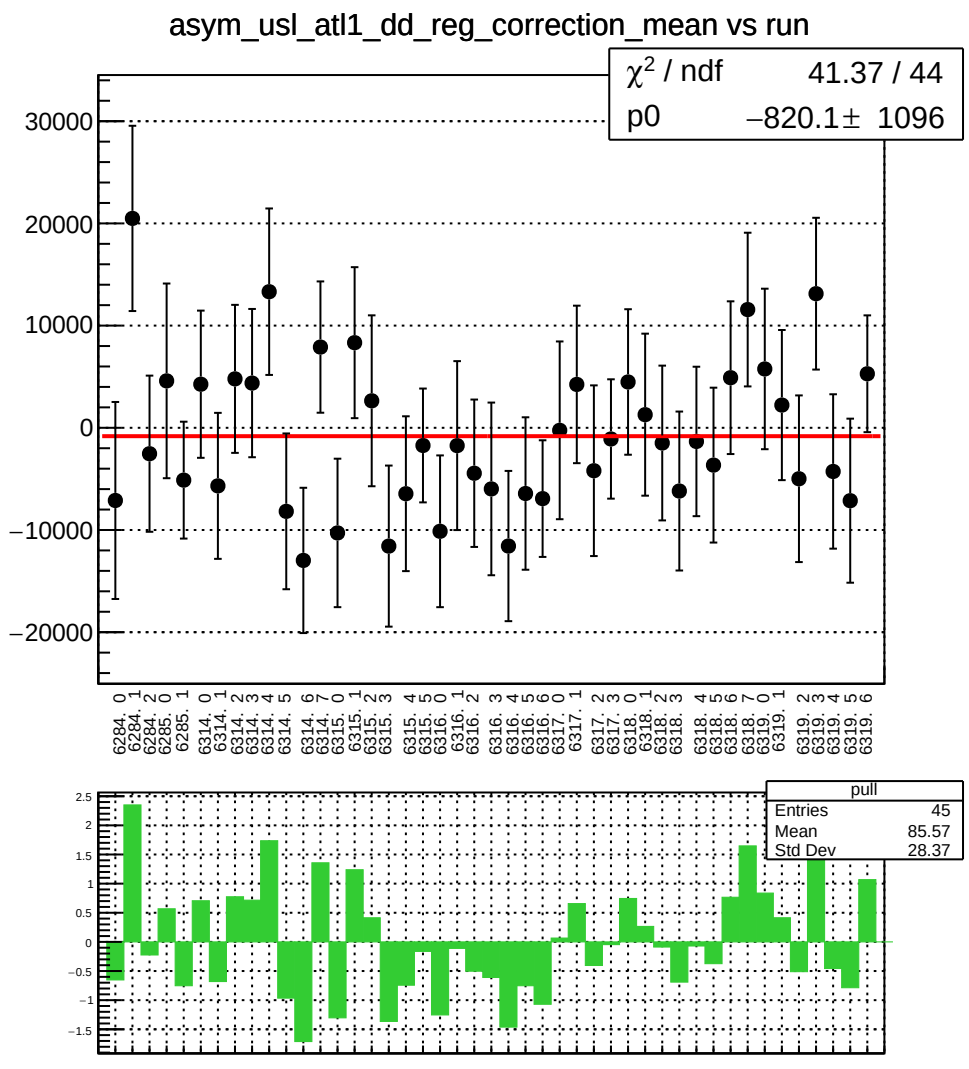

pull1D
Entries 45
Mean −0.1323
Std Dev 0.9501

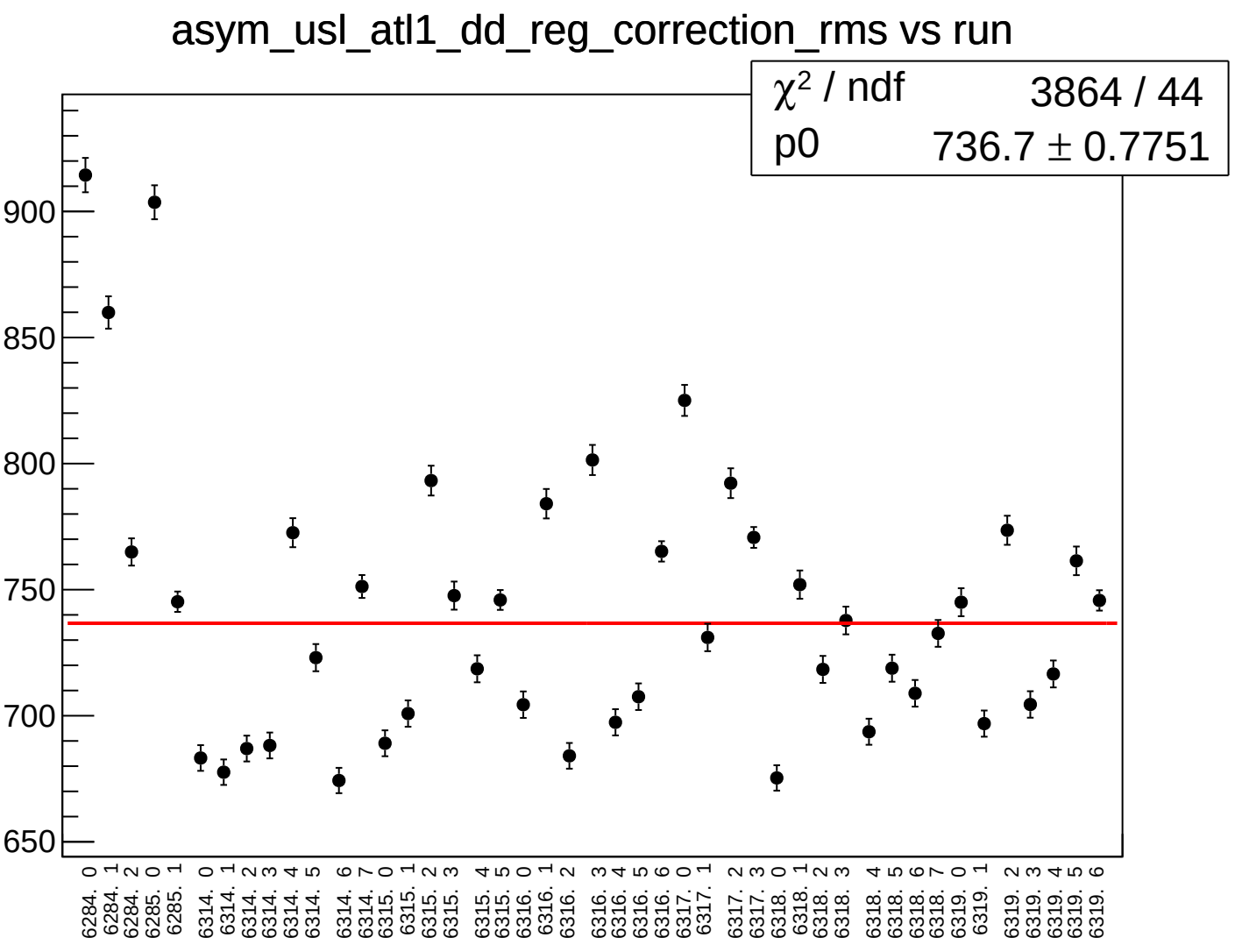

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.495e+05 / 44
p0 4.811e−11 ± 6.443e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

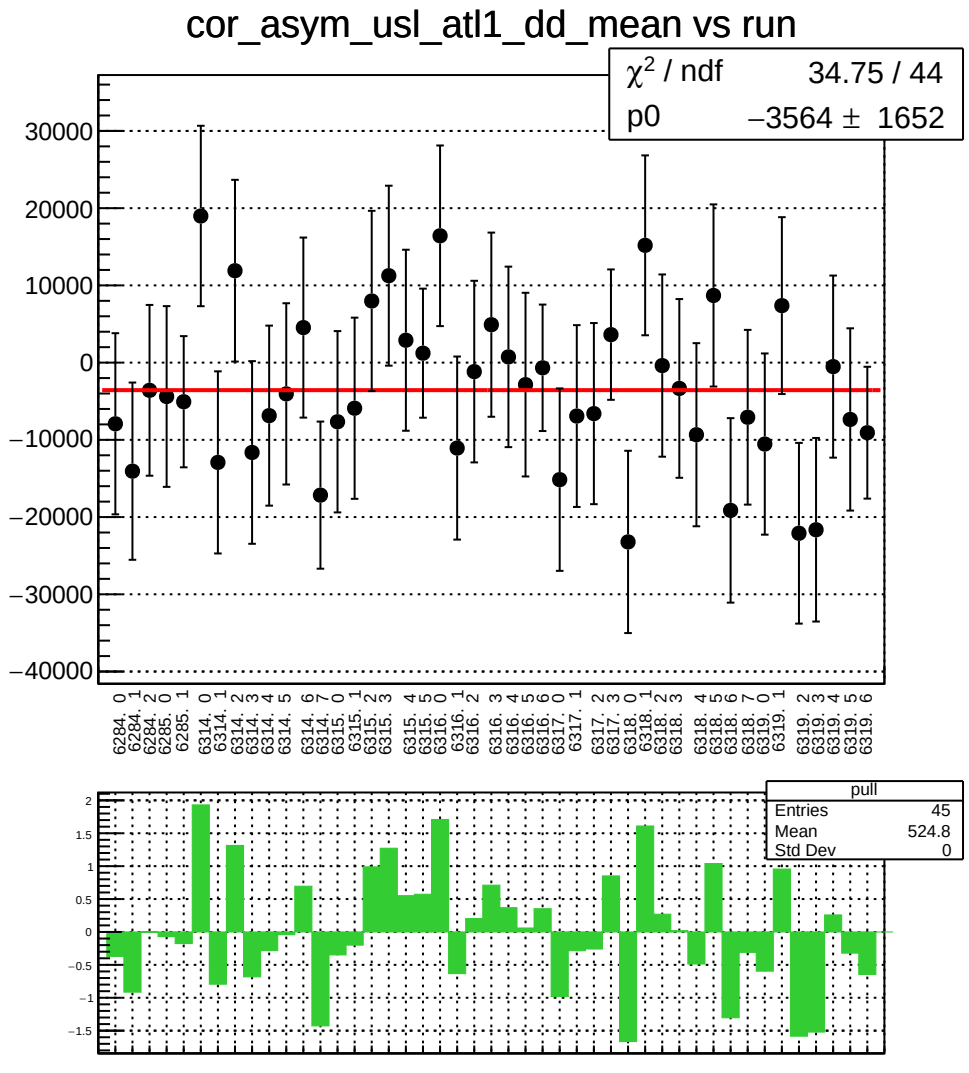

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 34.74 / 44
p0 −3564 ± 1652
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 525.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

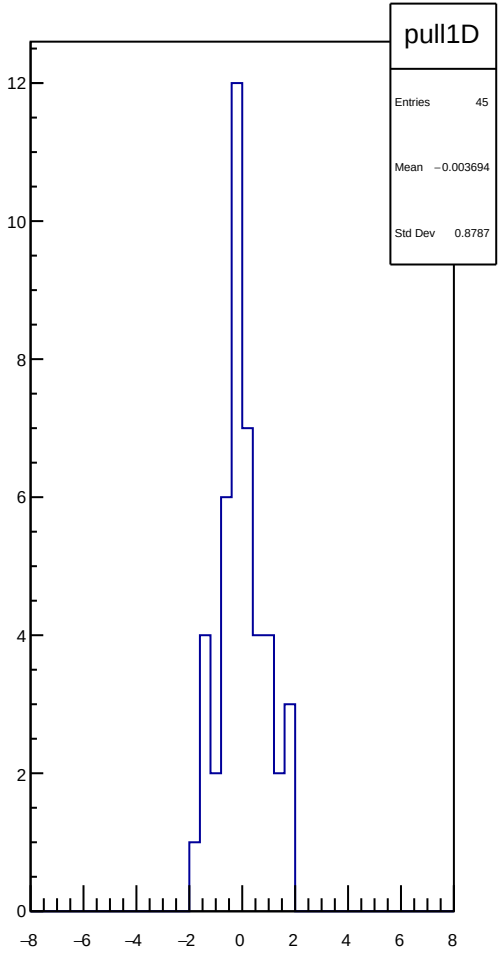

pull1D
Entries 45
Mean −0.003691
Std Dev 0.8787
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

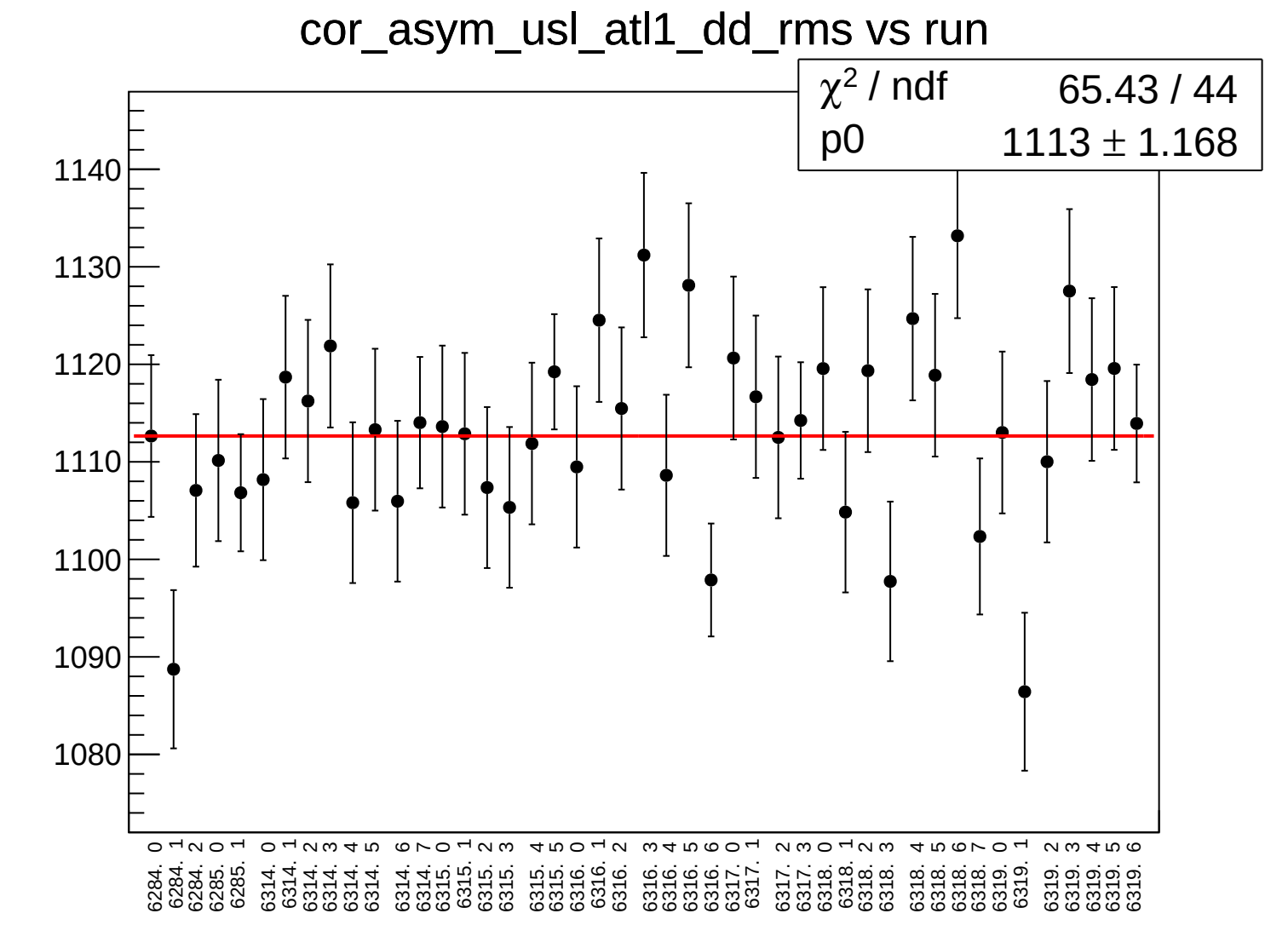

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 65.43 / 44
p0 1113 ± 1.168
1140
1130
1120
1110
1100
1090
1080
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 41.37 / 44
p0 −820.1± 1096
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 85.57
Std Dev 28.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01011
Std Dev 0.9588
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3864 / 44
p0 736.7 ± 0.7751
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 34.75 / 44
p0 −3564 ± 1652
pull
Entries 45
Mean 524.8
Std Dev 0


pull1D
Entries 45
Mean −0.003694
Std Dev 0.8787


cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 65.43 / 44
p0 1113 ± 1.168
1140
1130
1120
1110
1100
1090
1080
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
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6319. 2
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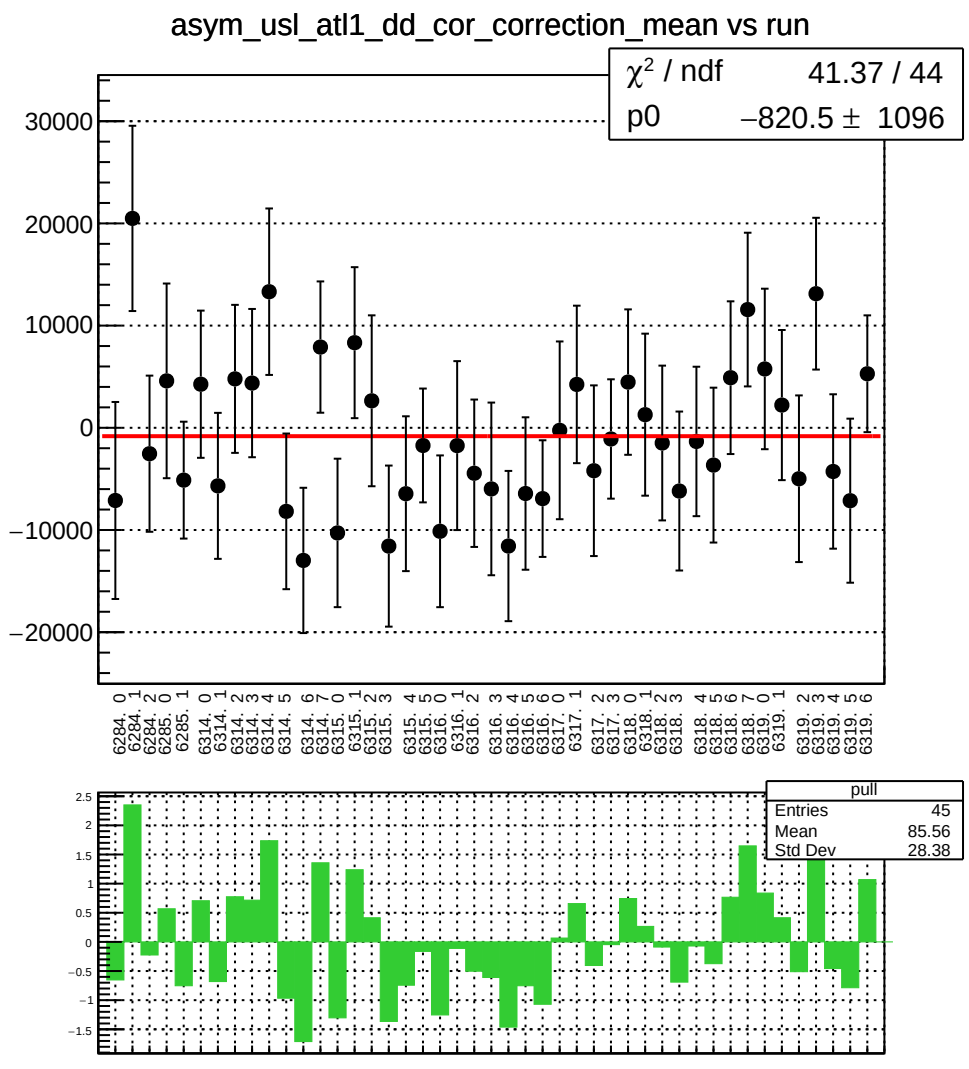
6319. 4
6319. 5
6319. 6


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 41.37 / 44
p0 −820.5 ± 1096
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 2
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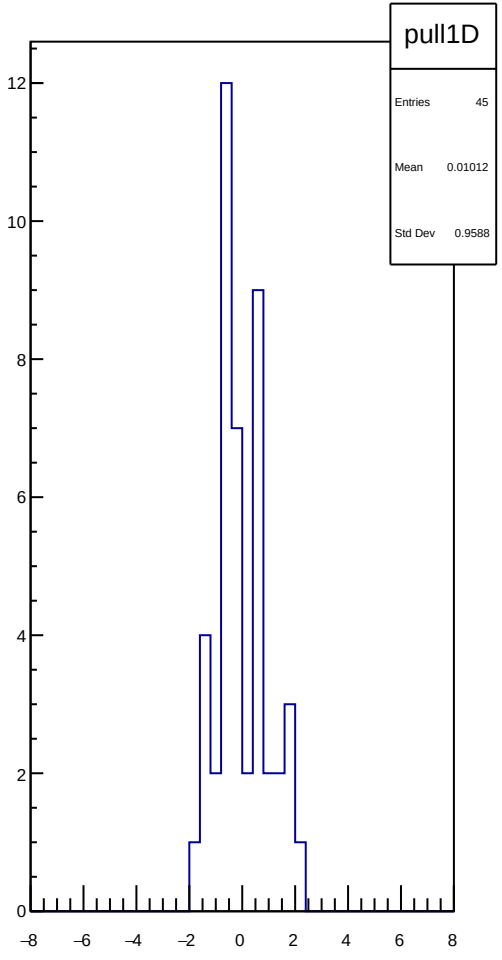
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 85.56
Std Dev 28.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01012
Std Dev 0.9588
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10
8
6
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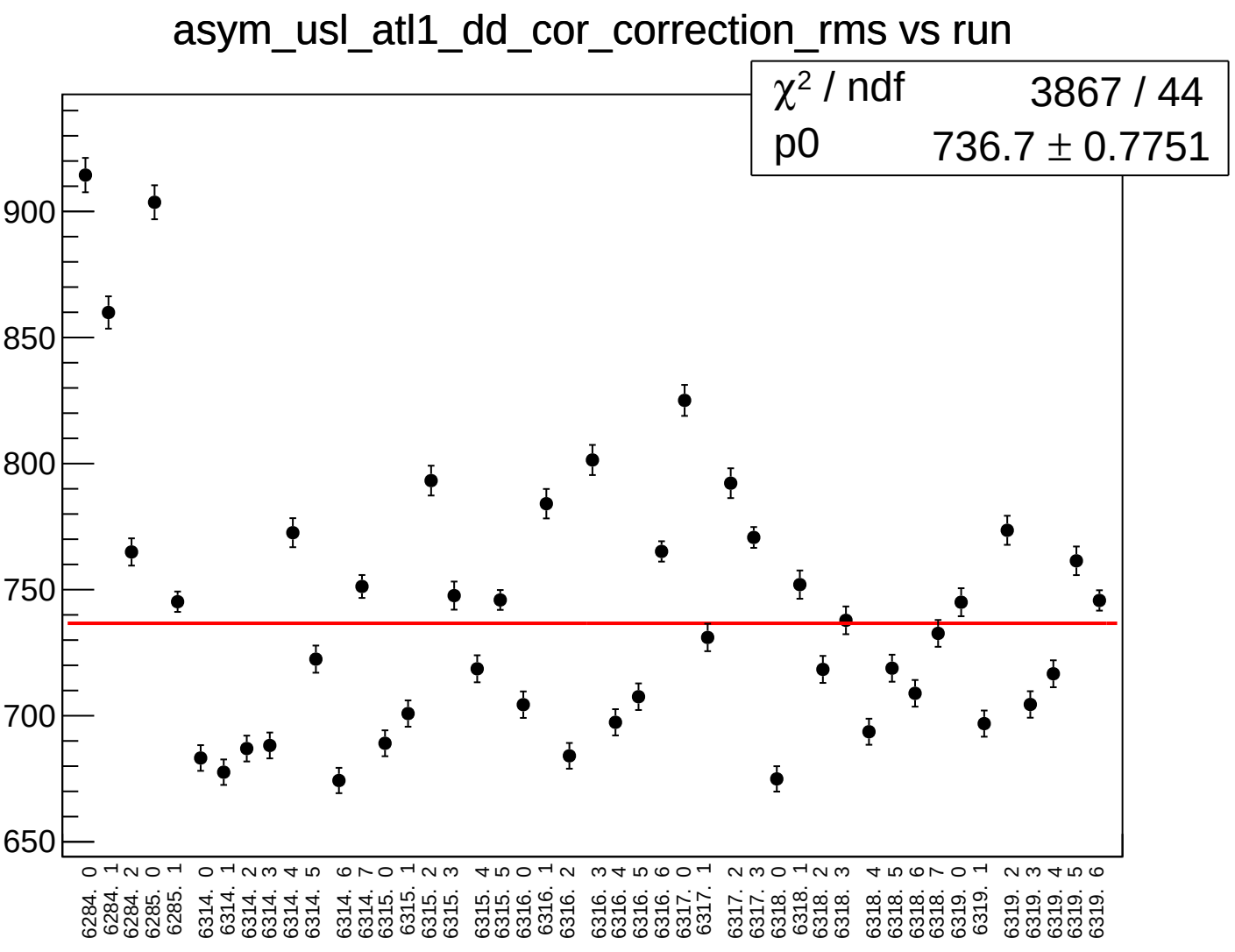
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3867 / 44
p0 736.7 ± 0.7751
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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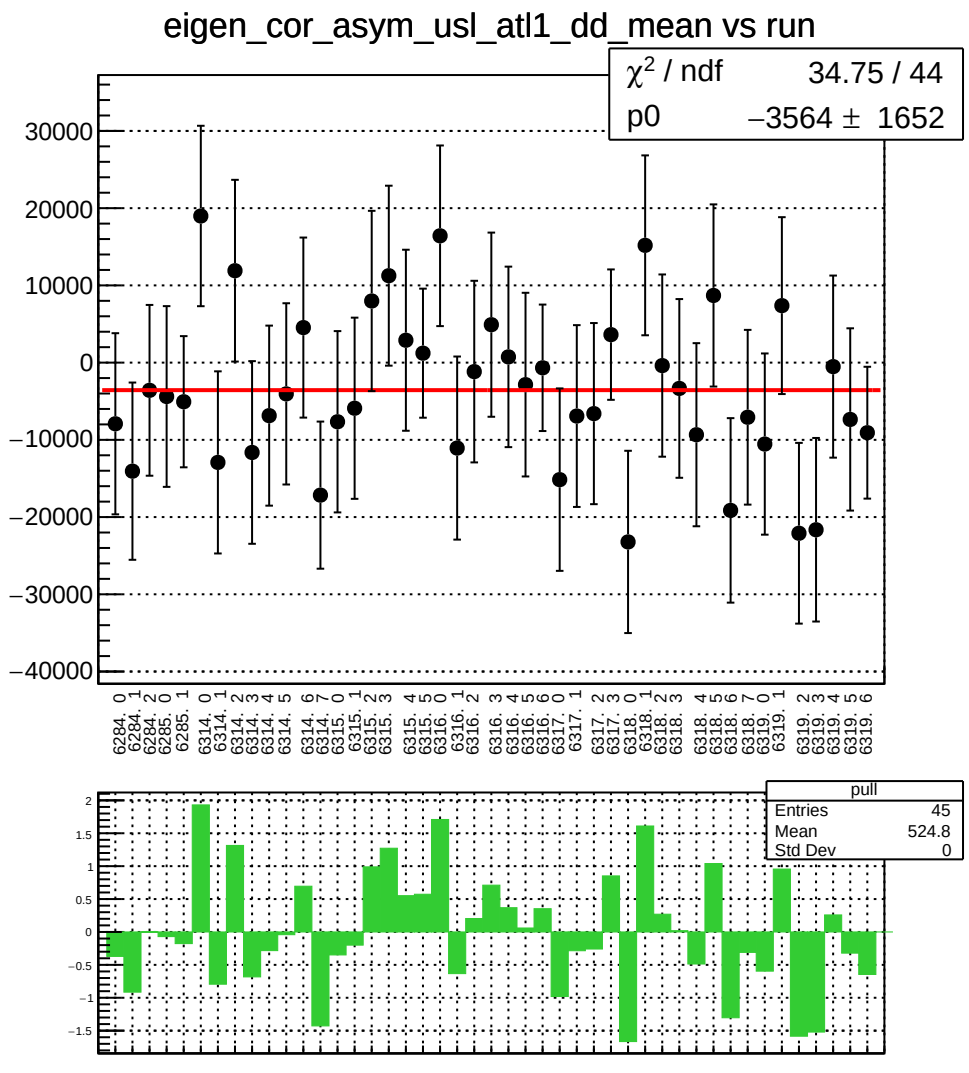
eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 34.75 / 44
p0 −3564 ± 1652
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
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6314. 6
6314. 7
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6315. 2
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6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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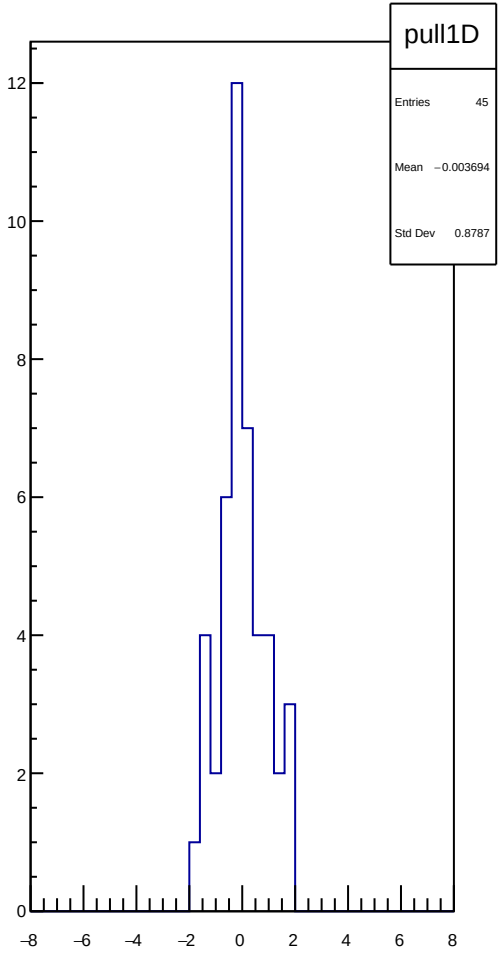
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 524.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.003694
Std Dev 0.8787
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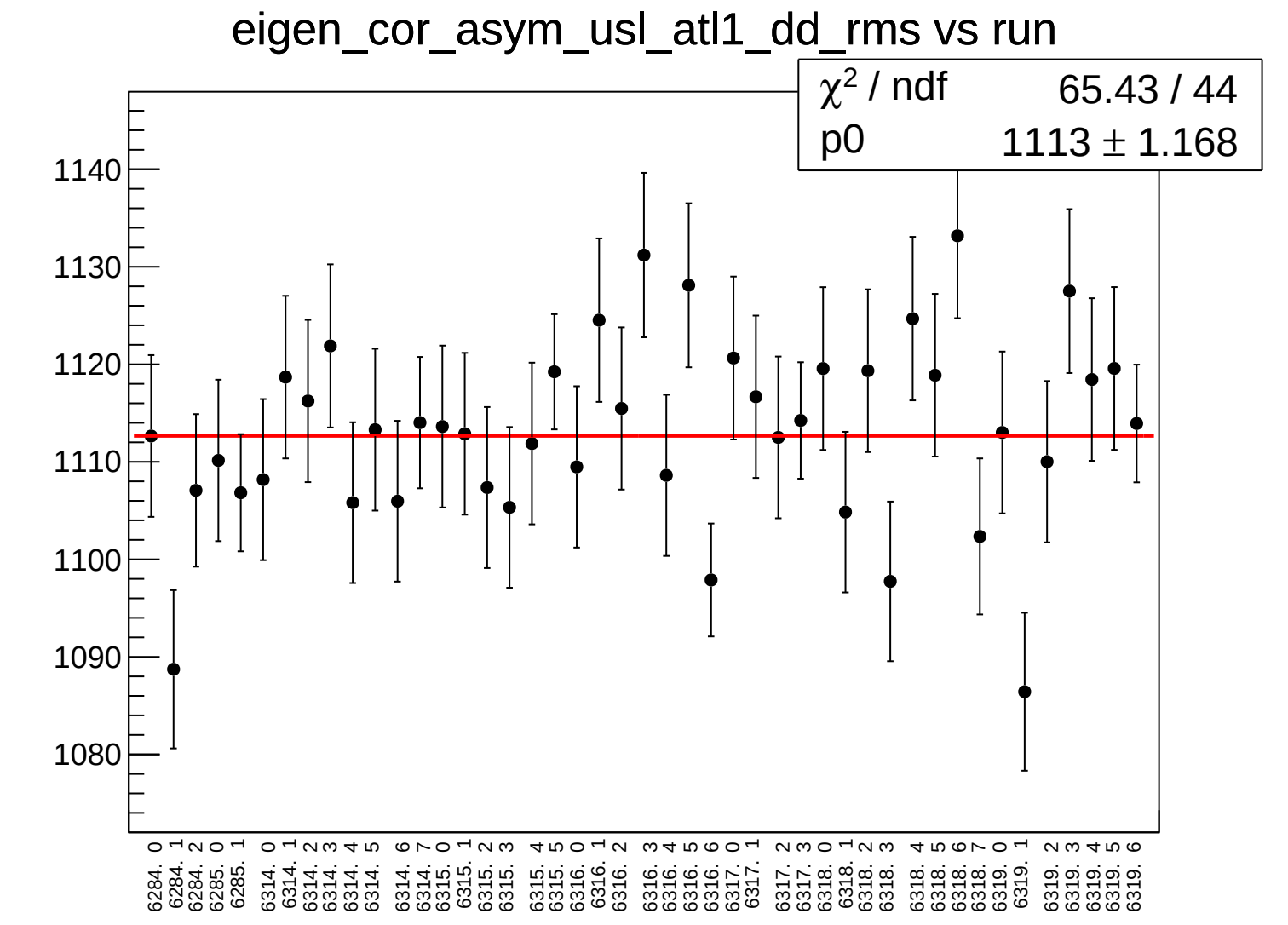
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 65.43 / 44
p0 1113 ± 1.168
1140
1130
1120
1110
1100
1090
1080
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
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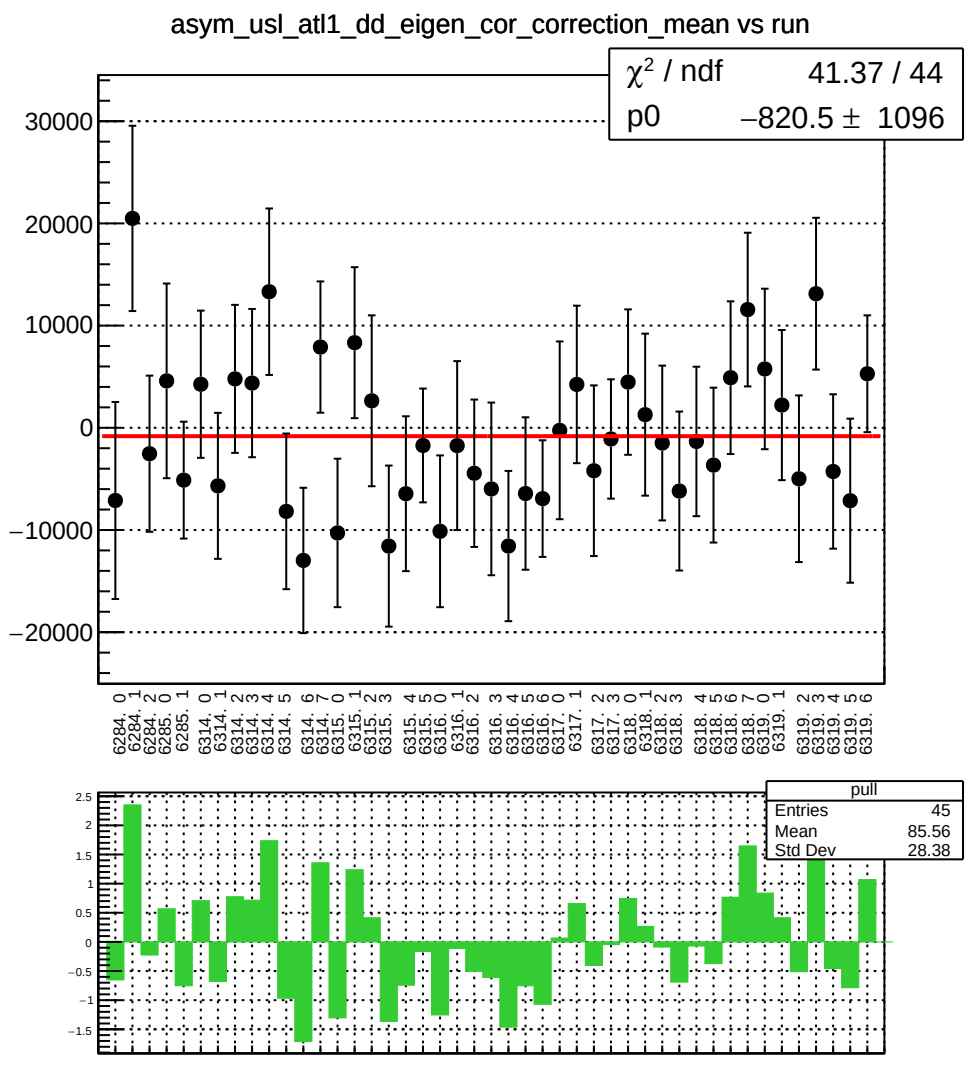
6319. 5
6319. 6


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.37 / 44
p0 −820.5 ± 1096
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6319. 6
pull
Entries 45
Mean 85.56
Std Dev 28.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01012
Std Dev 0.9588
12
10
8
6
4
2
0
−8
−6
−4
−2
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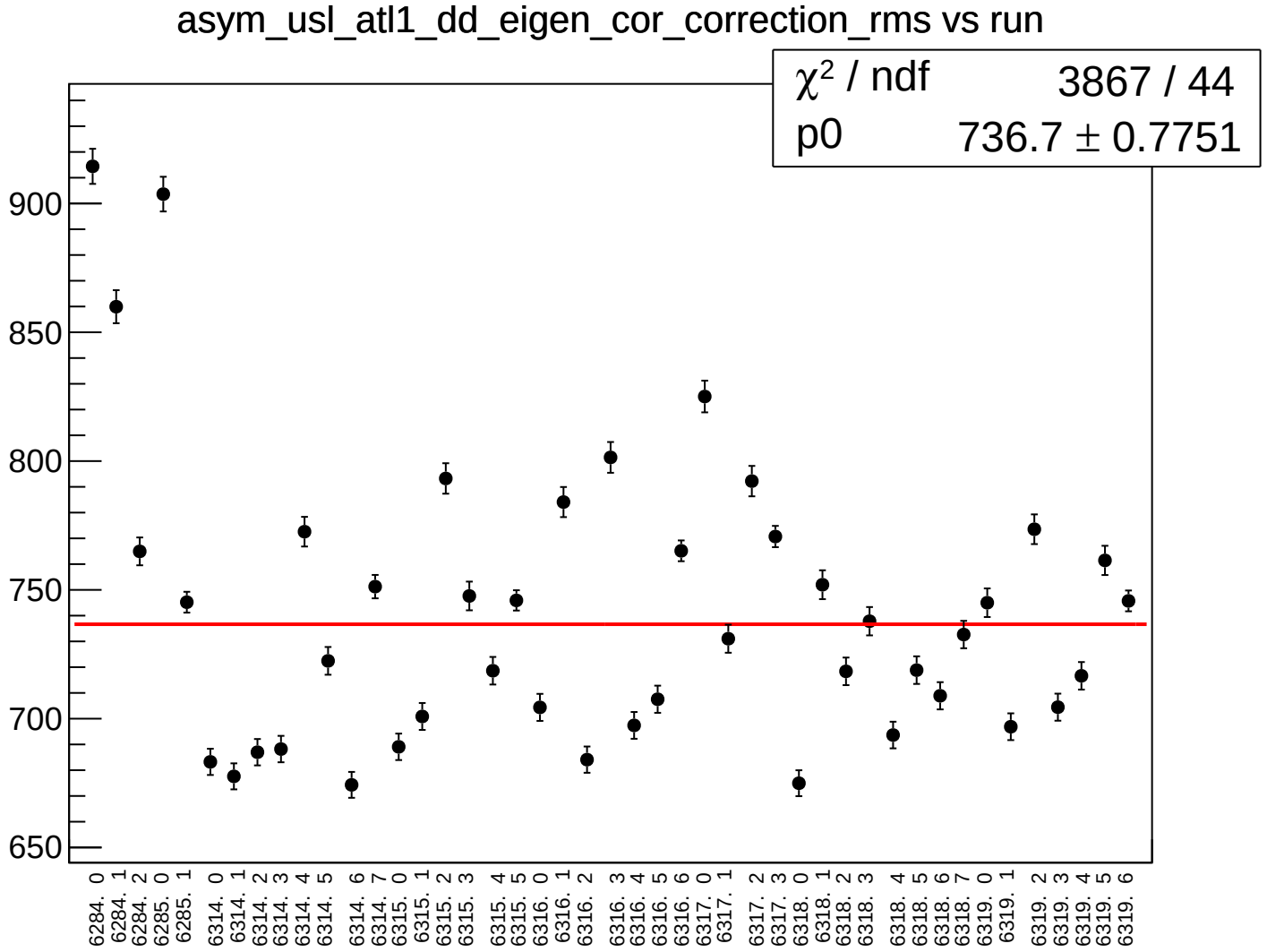
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3867 / 44
p0 736.7 ± 0.7751
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
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6315. 2
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6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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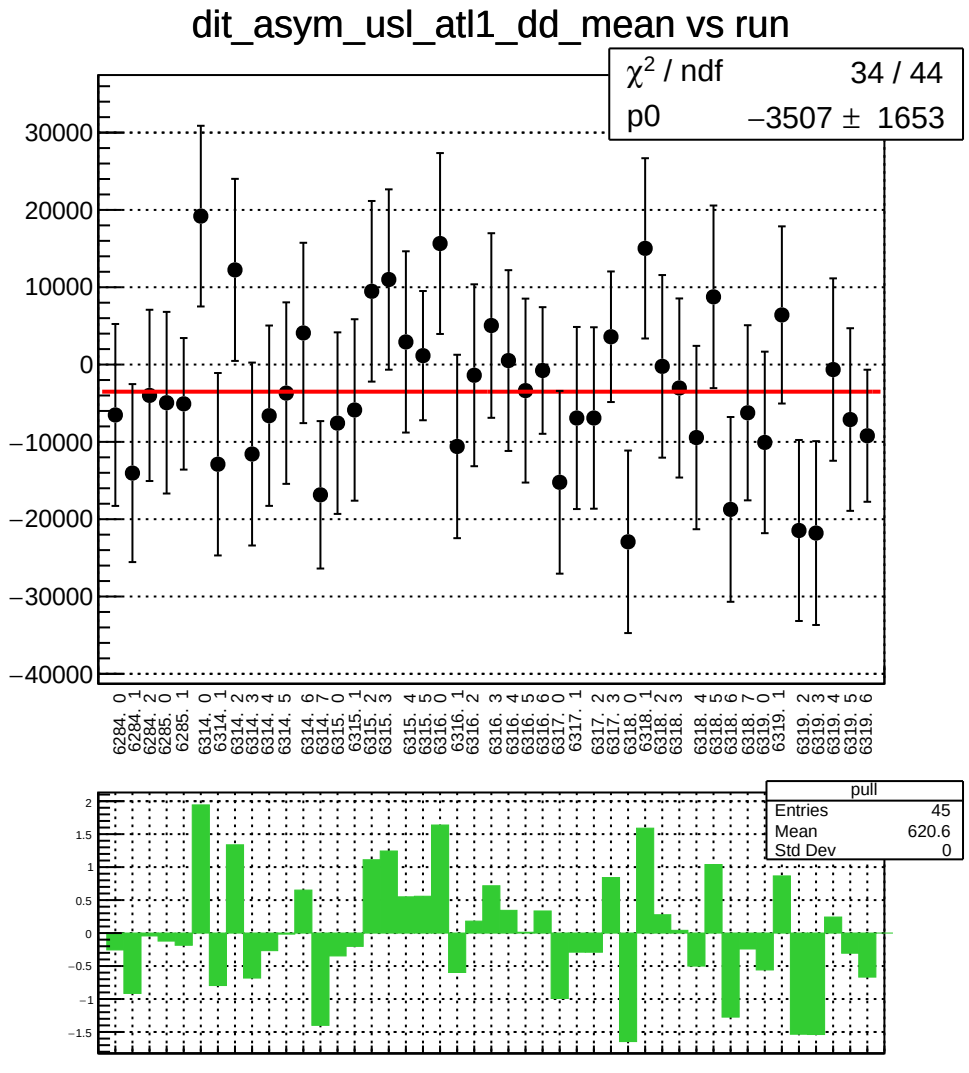
6319. 5
6319. 6


dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 34 / 44
p0 −3507 ± 1653
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6315. 0
6315. 1
6315. 2
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
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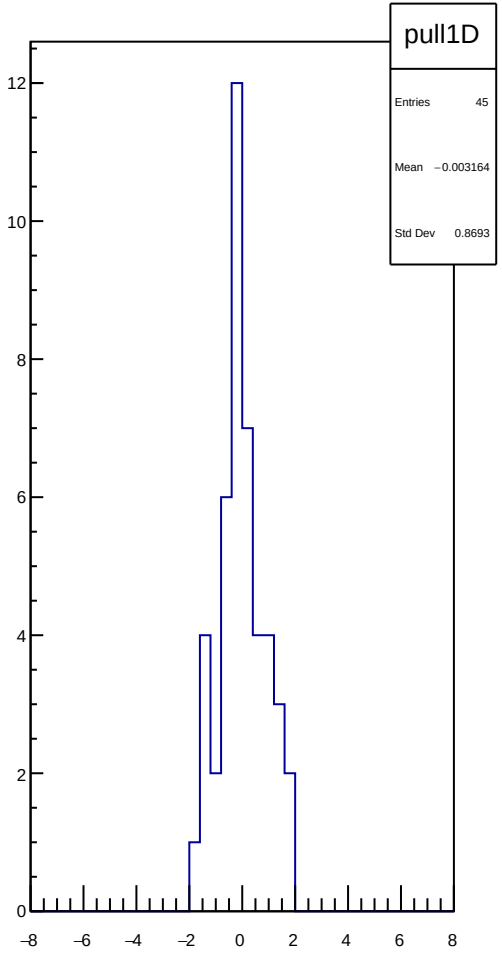
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 620.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.003164
Std Dev 0.8693
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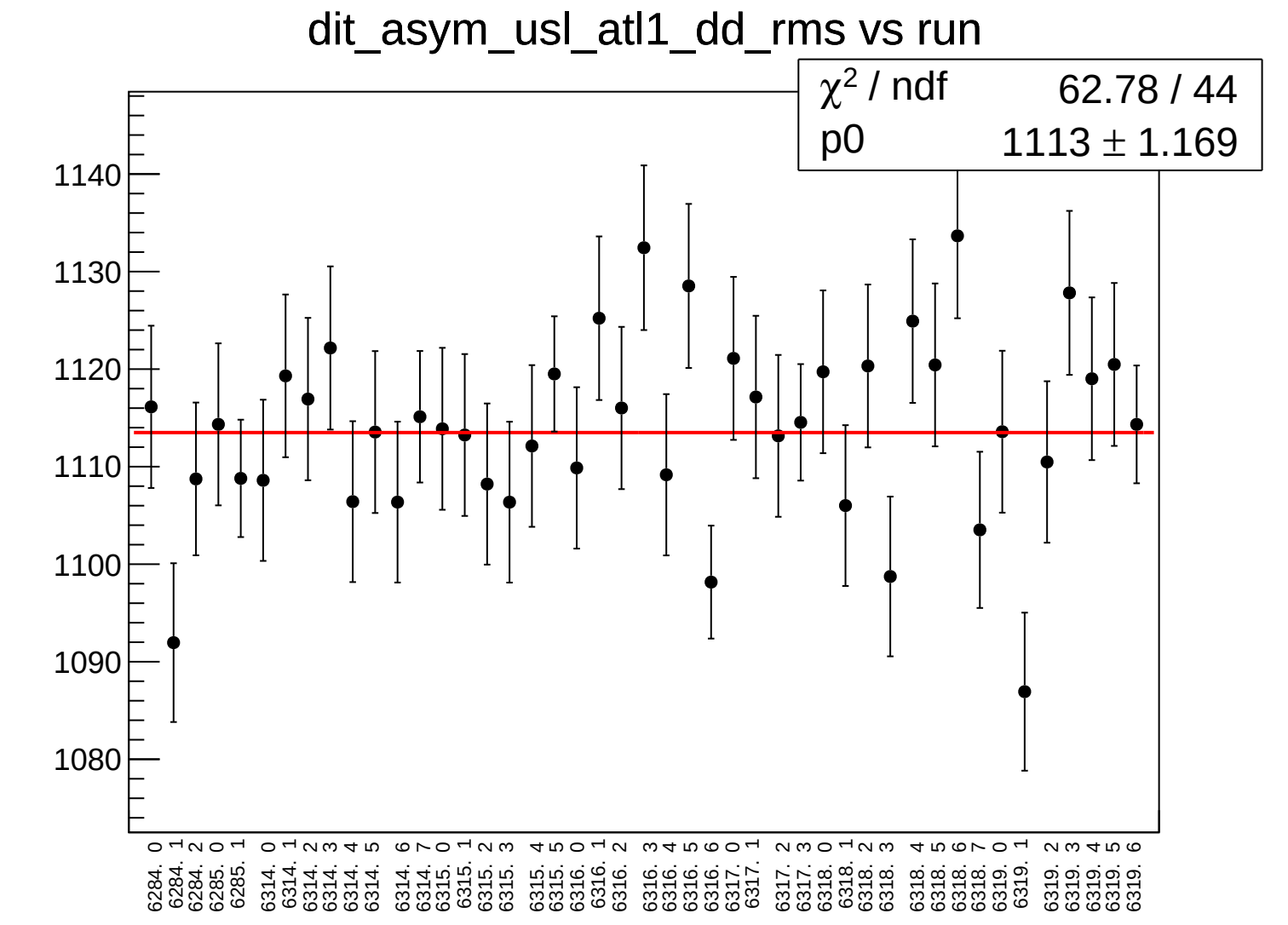
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 62.78 / 44
p0 1113 ± 1.169
1140
1130
1120
1110
1100
1090
1080
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6317. 1
6317. 2
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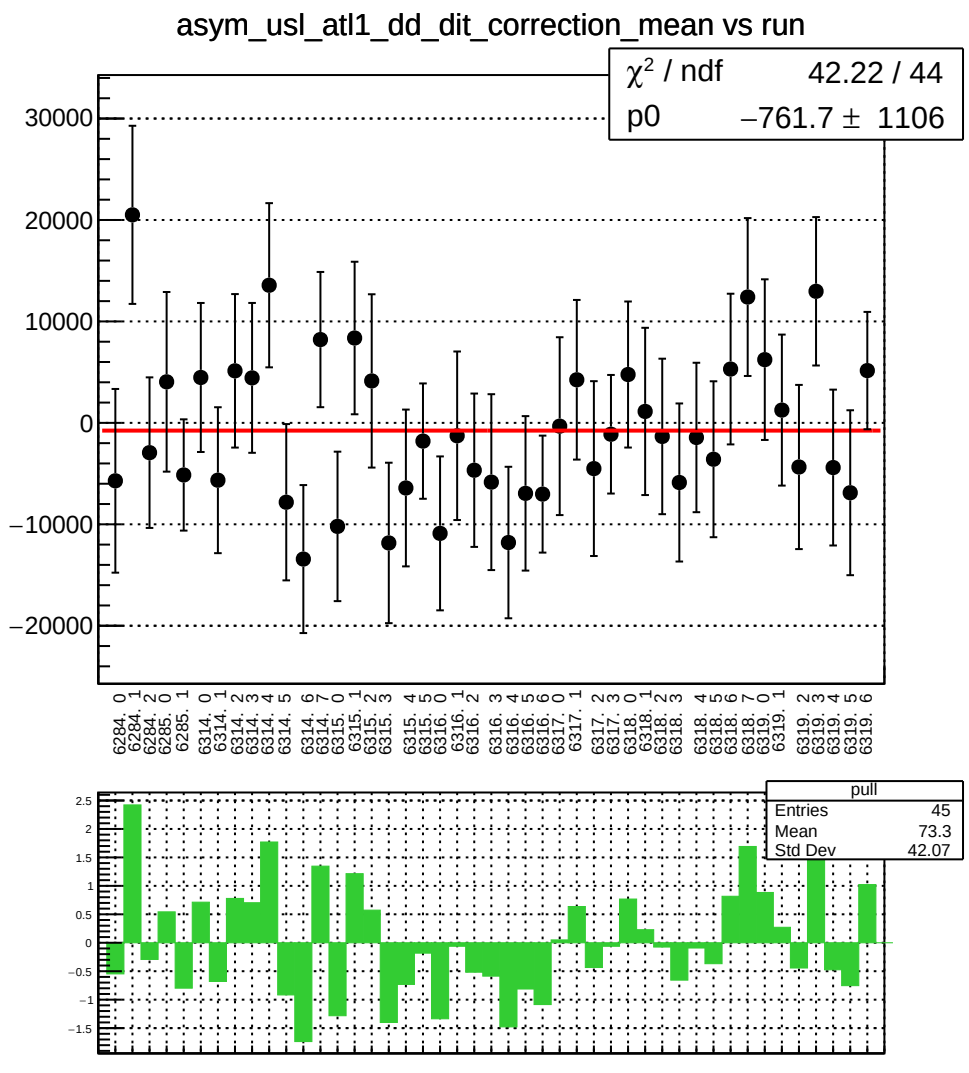
asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 42.22 / 44
p0 −761.7 ± 1106
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
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6315. 0
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6317. 3
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 73.3
Std Dev 42.07
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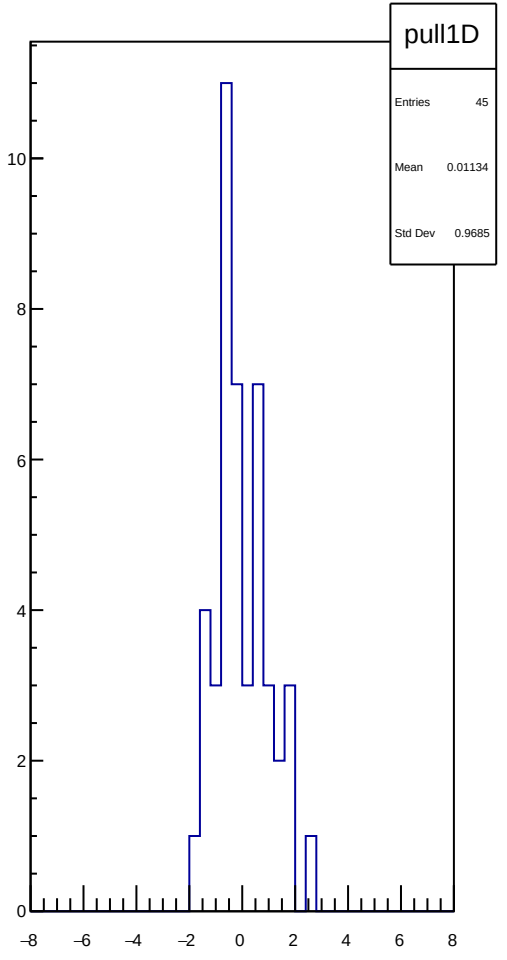
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01134
Std Dev 0.9685
10
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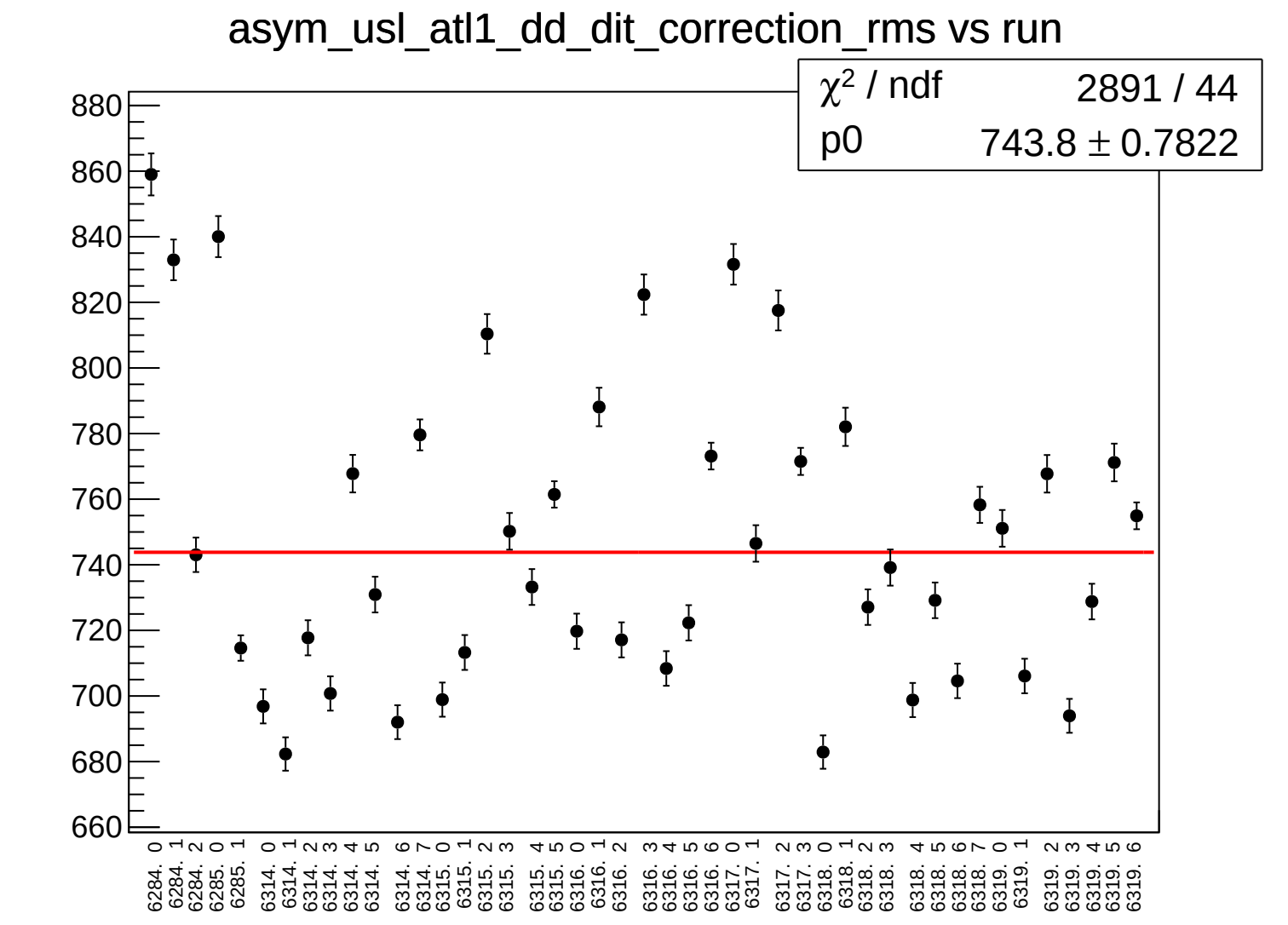
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2891 / 44
p0 743.8 ± 0.7822
880
860
840
820
800
780
760
740
720
700
680
660
6284. 0
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6284. 2
6285. 0
6285. 1
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6314. 6
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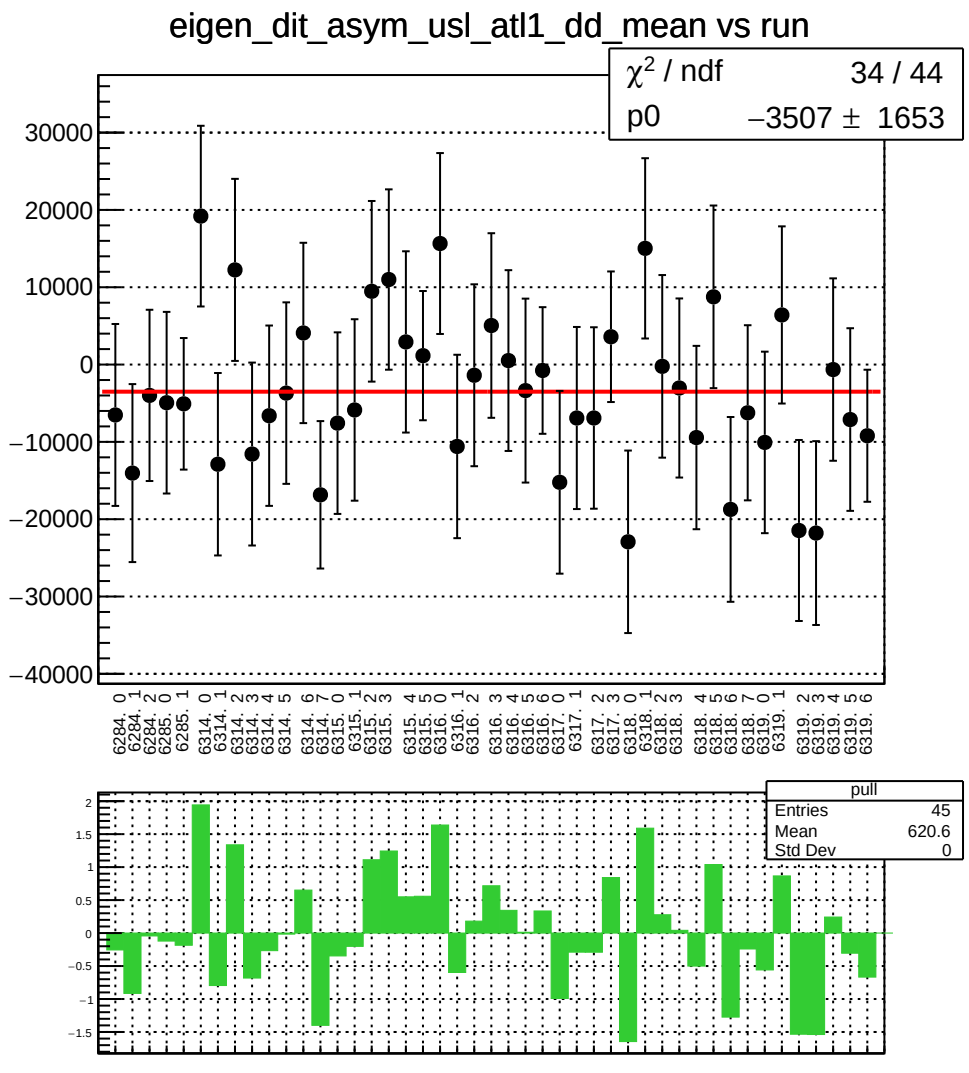
eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 34 / 44
p0 −3507 ± 1653
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 620.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003164
Std Dev 0.8693
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10
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4
2
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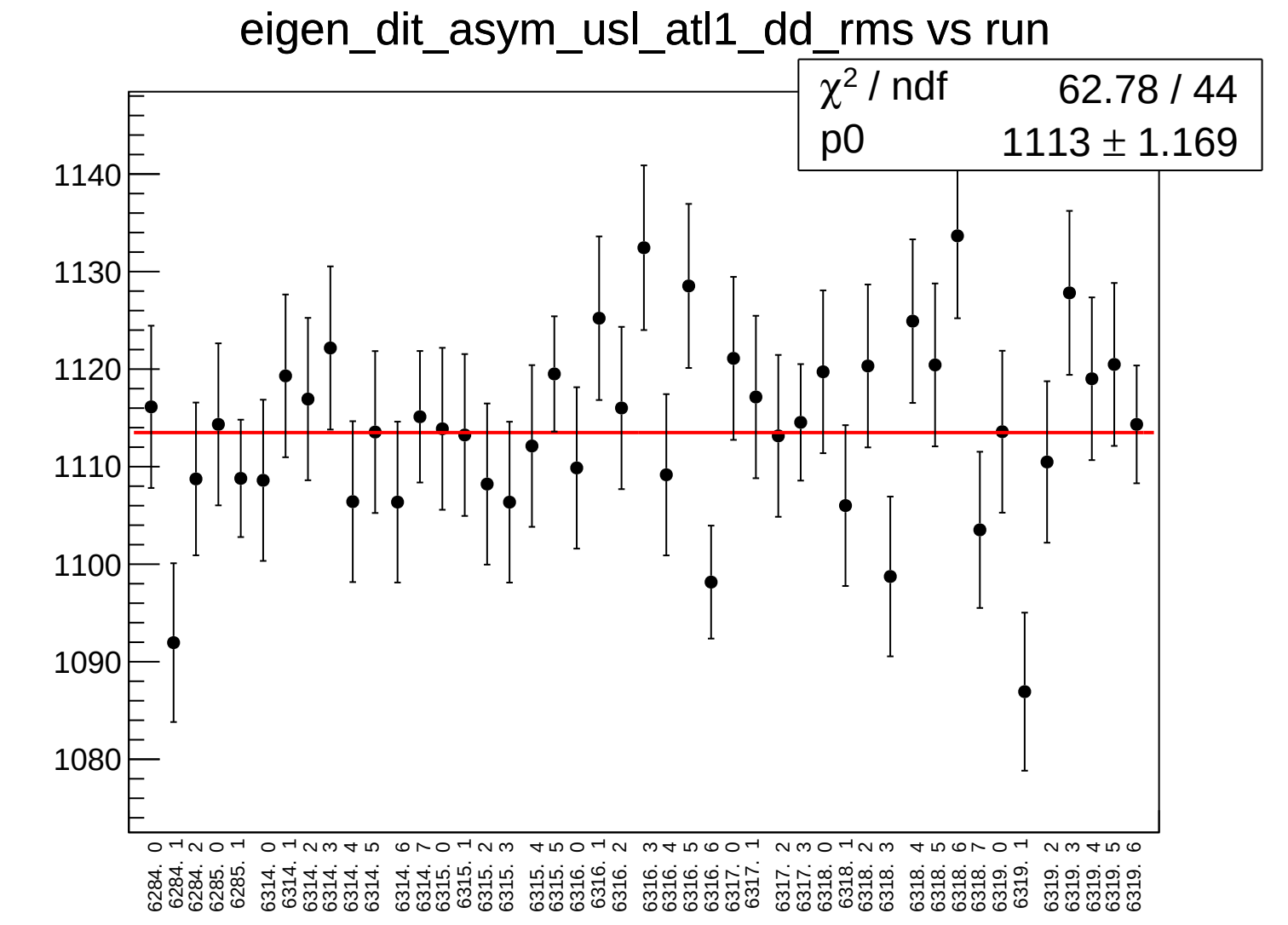
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 62.78 / 44
p0 1113 ± 1.169
1140
1130
1120
1110
1100
1090
1080
6284. 0
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6284. 2
6285. 0
6285. 1
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6315. 2
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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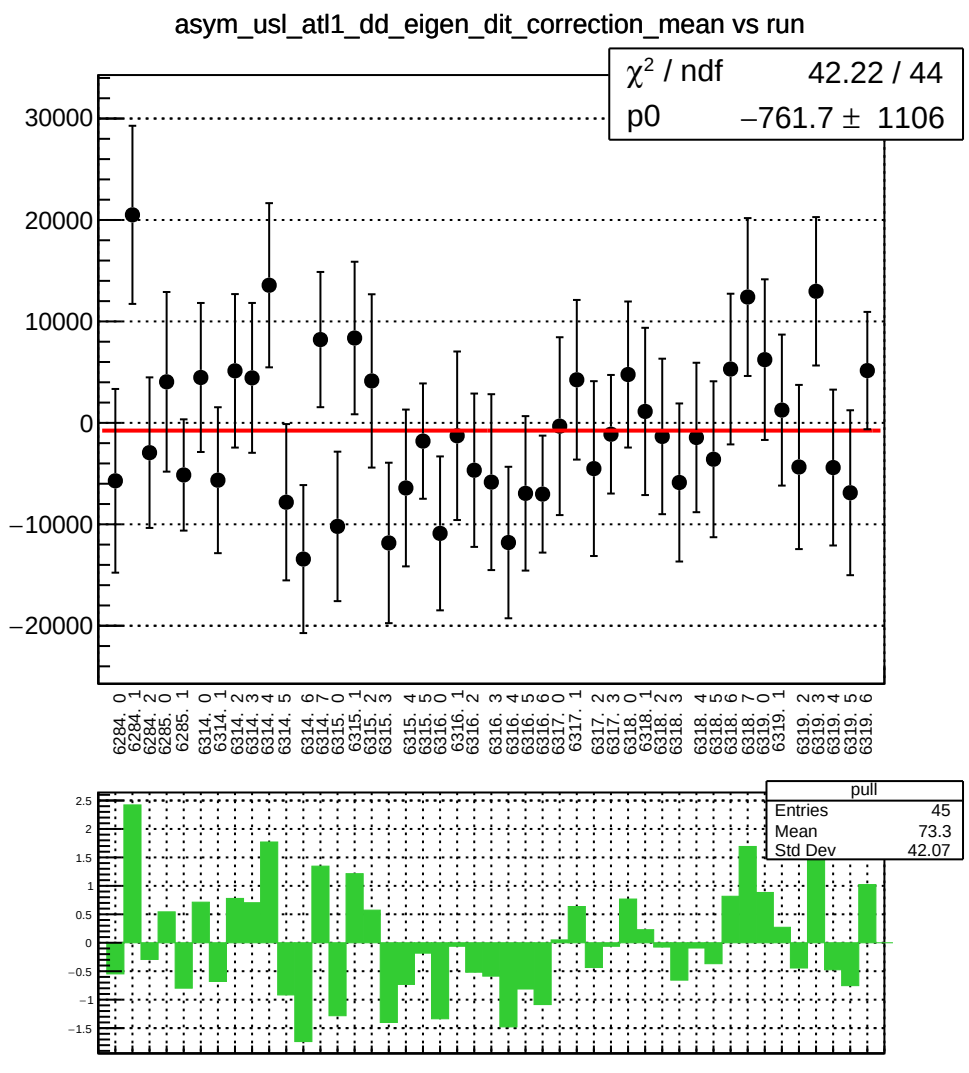
6319. 6


asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.22 / 44
p0 −761.7 ± 1106
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6318. 5
6318. 6
6318. 7
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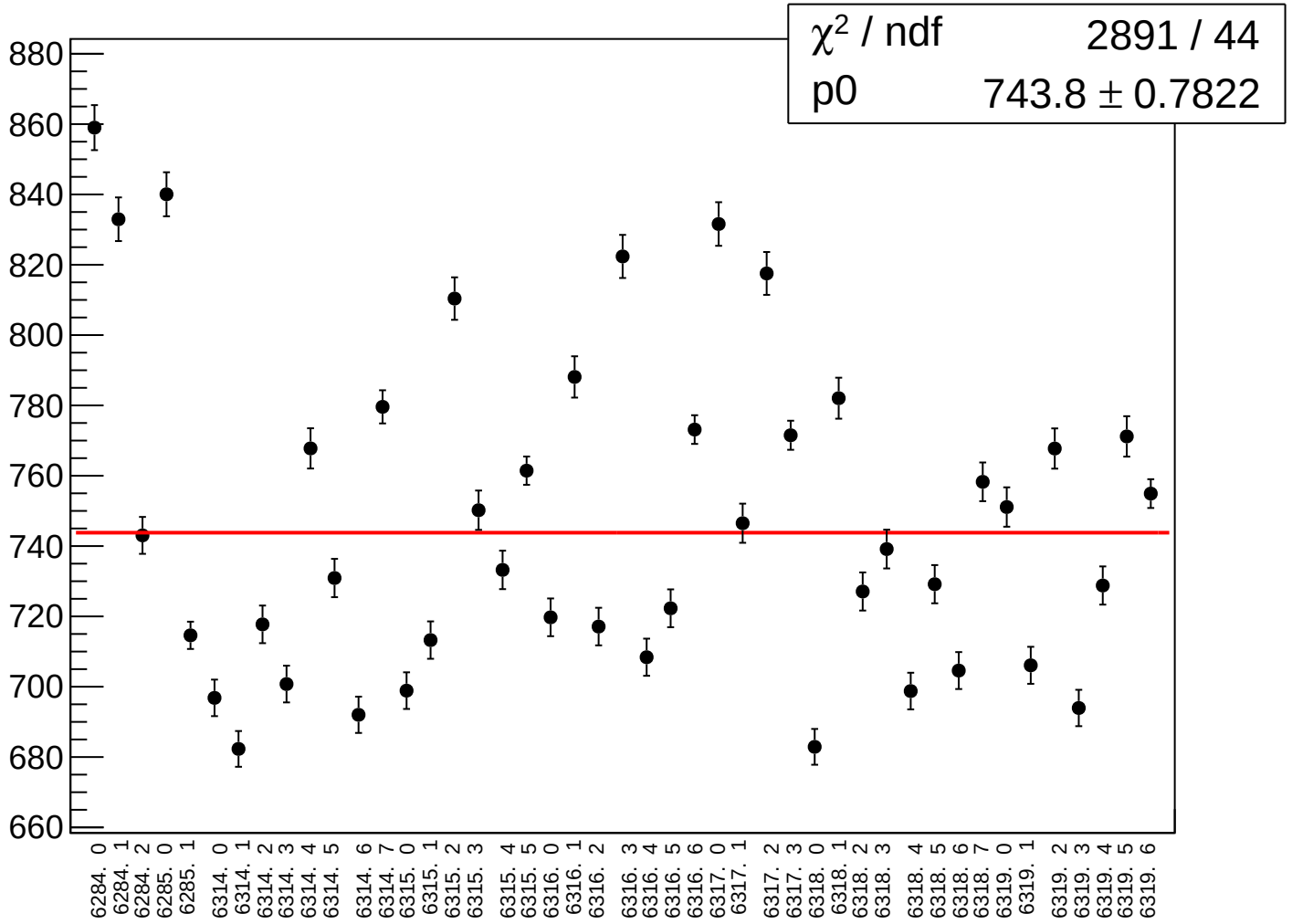
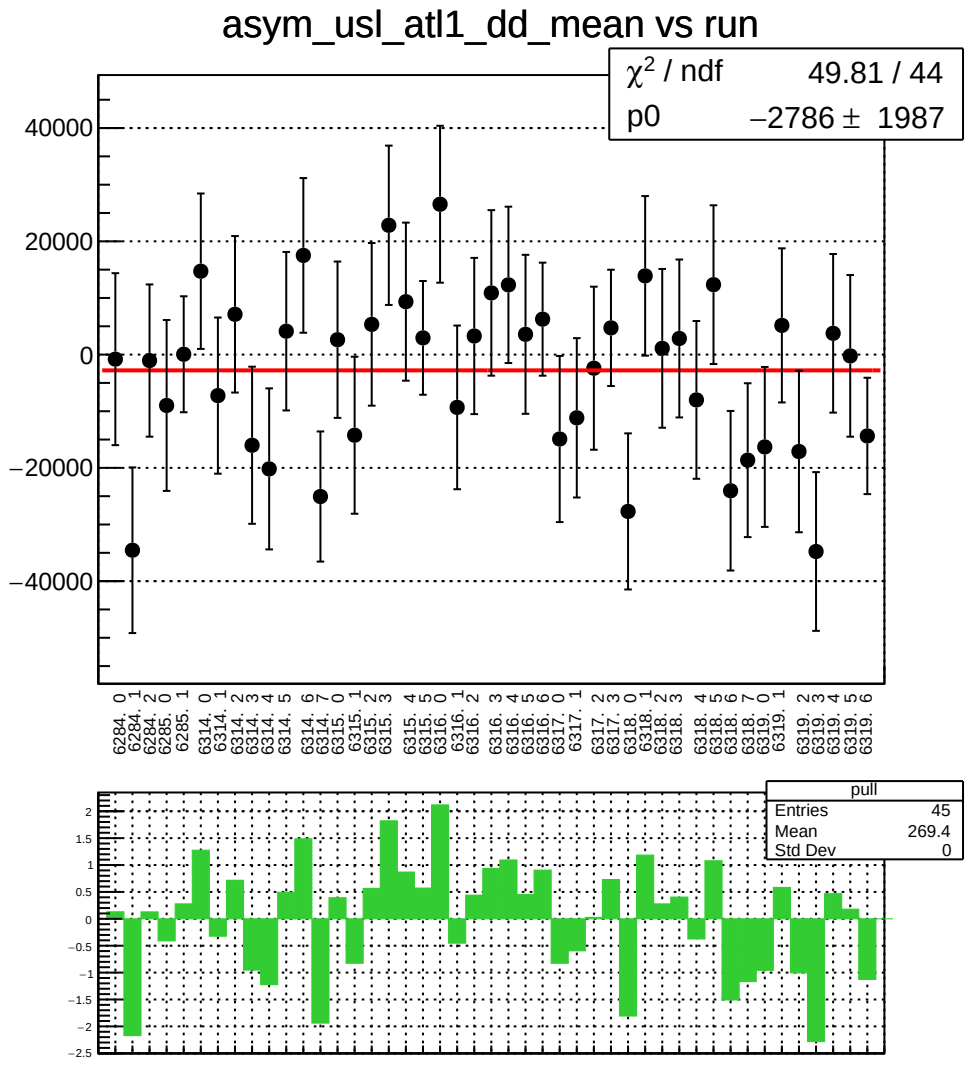
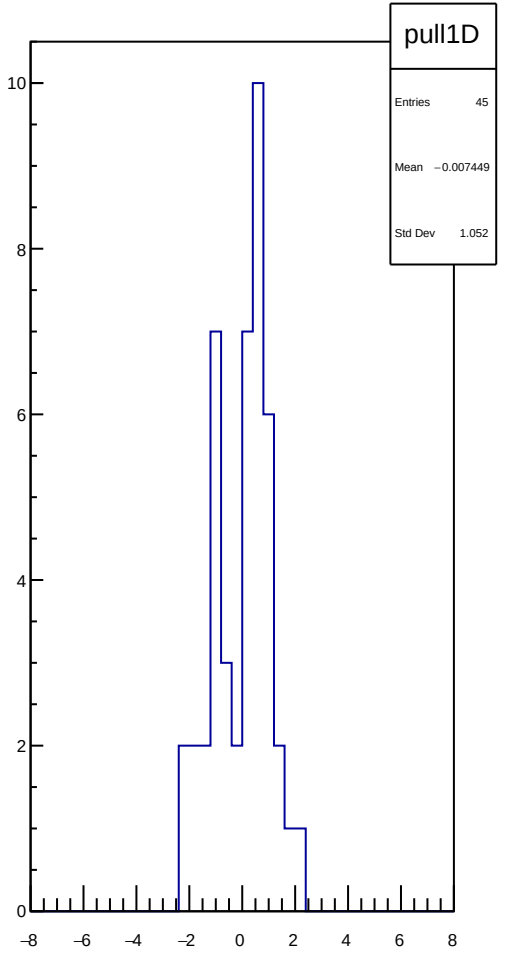
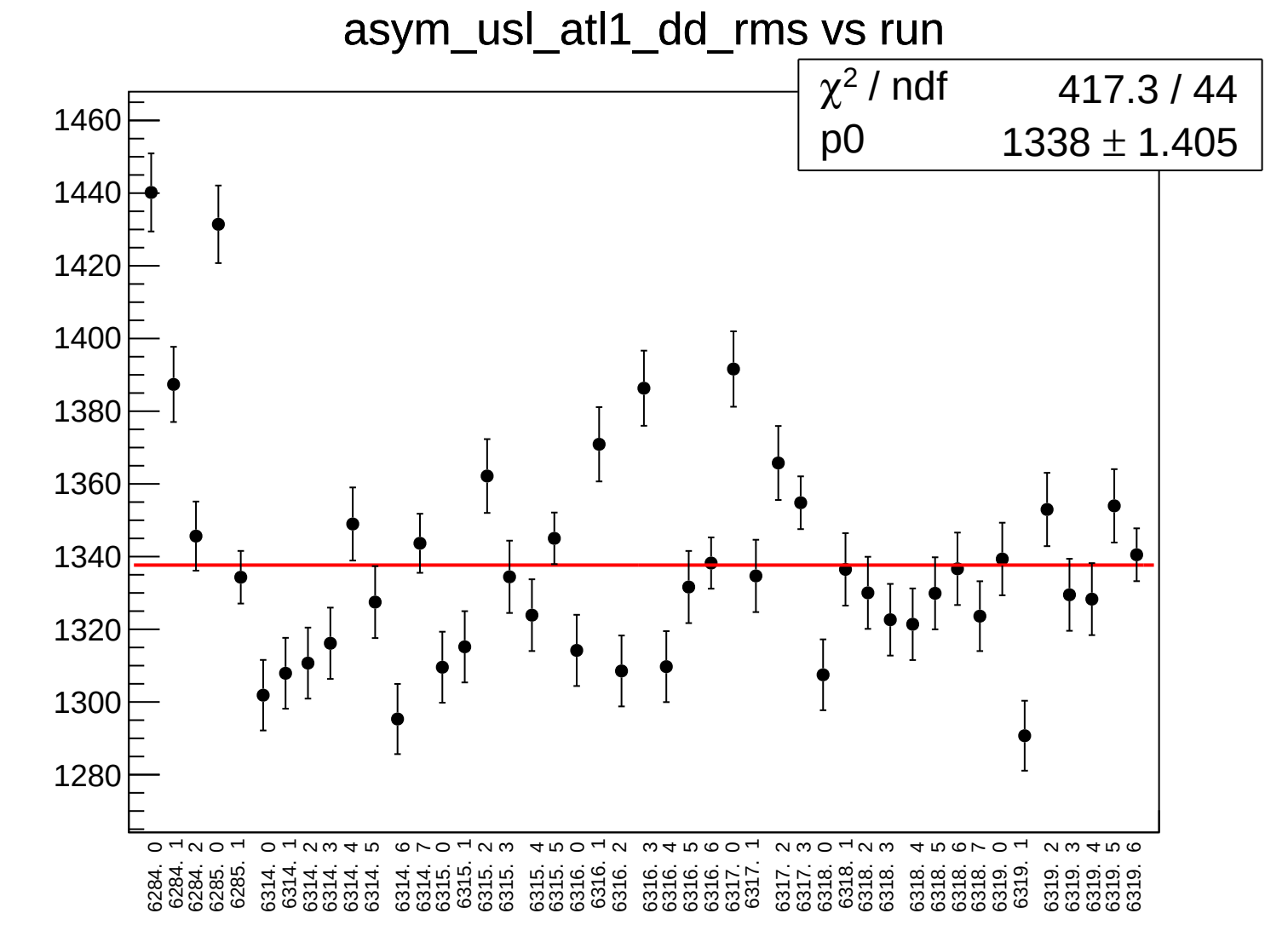
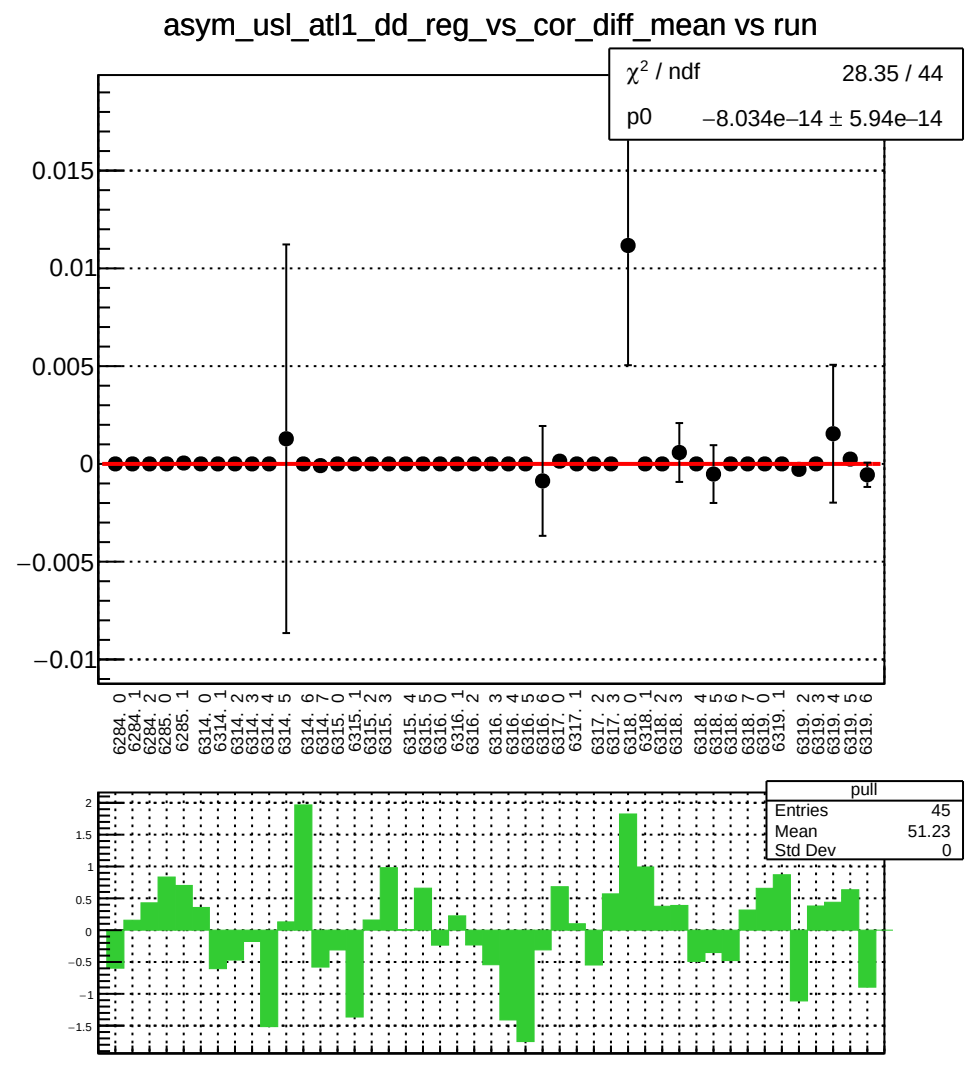
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 73.3
Std Dev 42.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01134
Std Dev 0.9685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

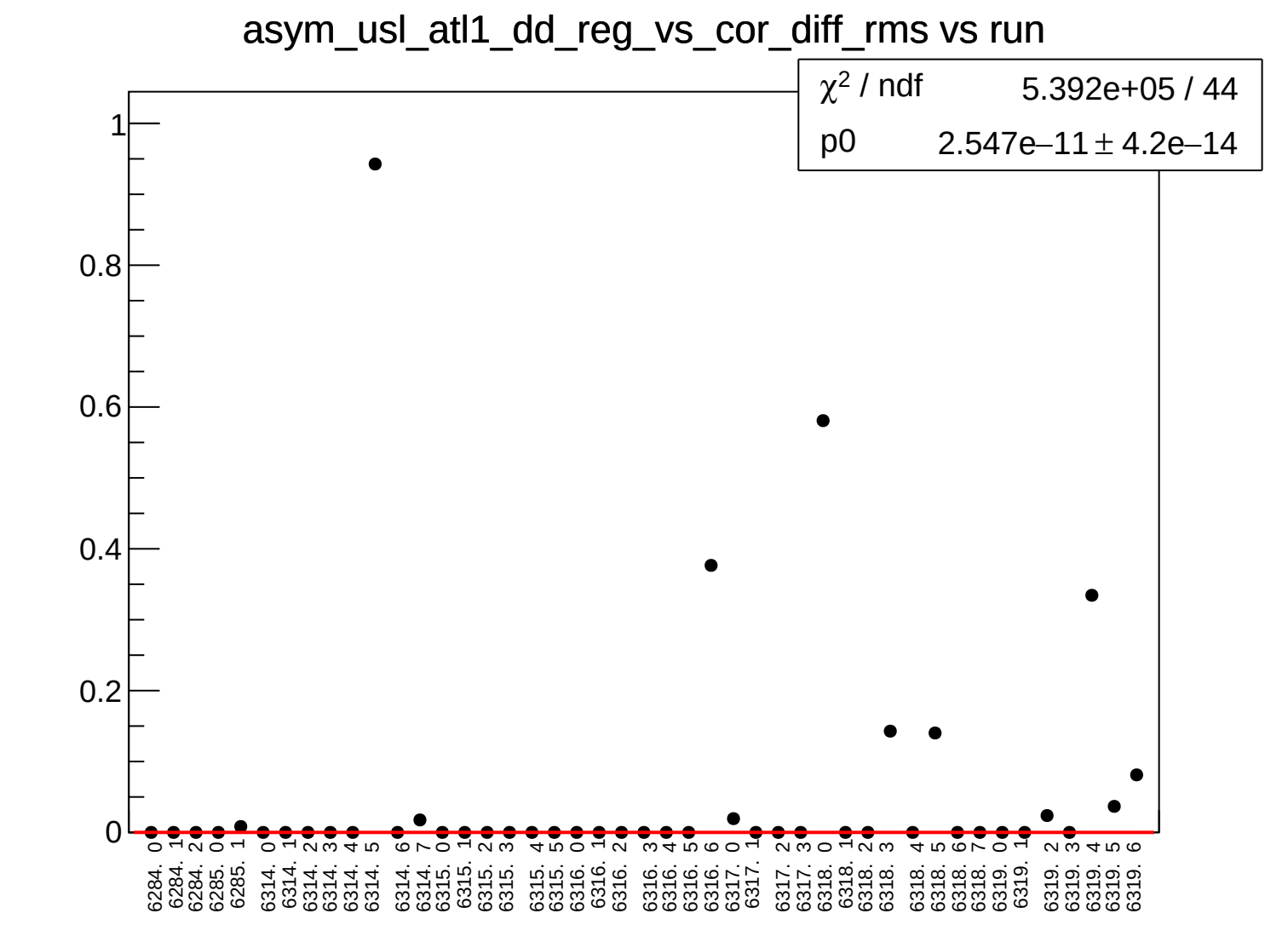

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2891 / 44
p0 743.8 ± 0.7822
880
860
840
820
800
780
760
740
720
700
680
660
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

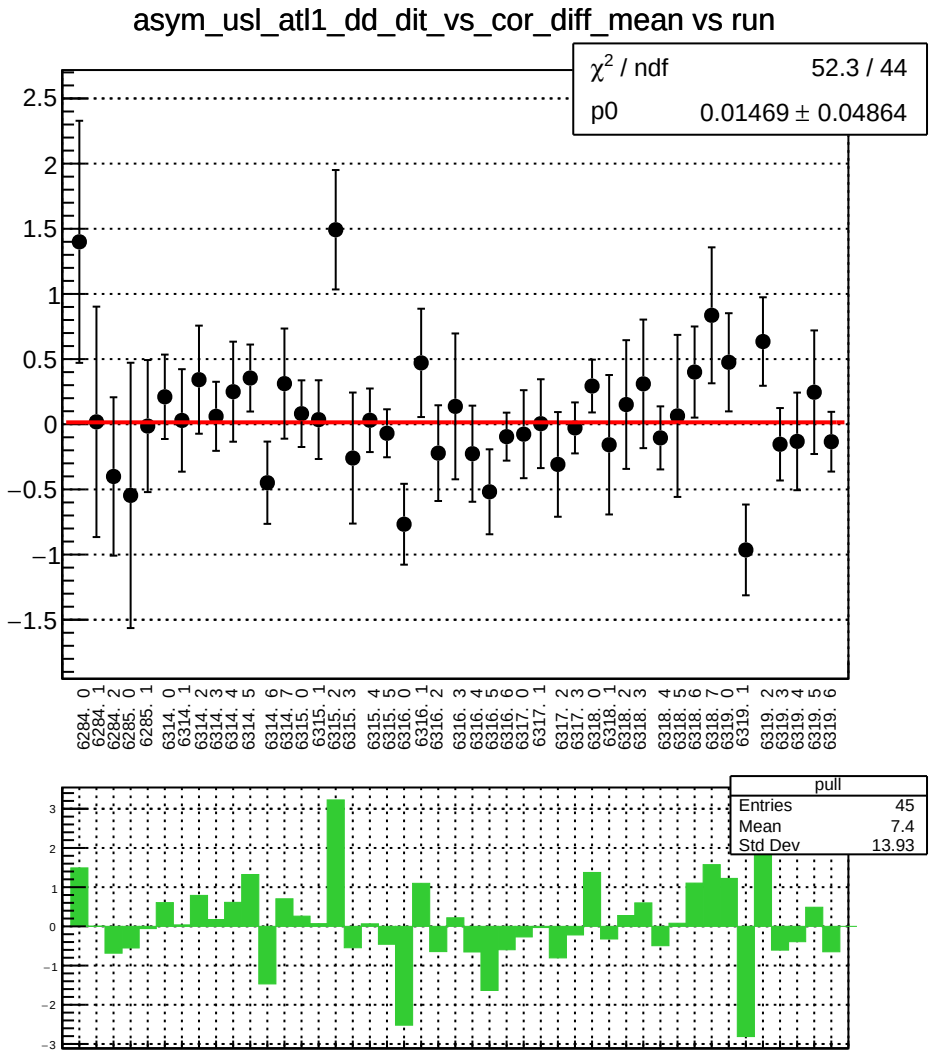

asym_usl_atl1_dd_mean vs run
χ² / ndf 49.81 / 44
p0 −2786 ± 1987
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 269.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

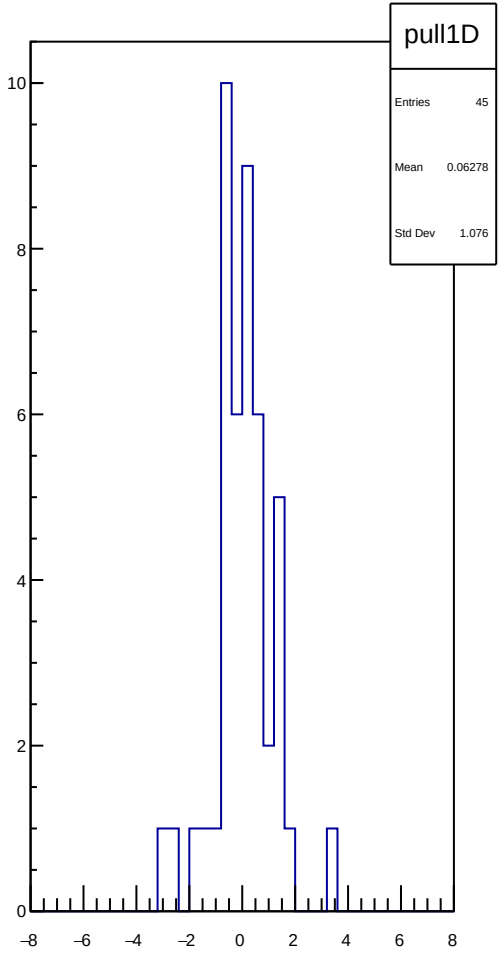

pull1D
Entries 45
Mean −0.007449
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

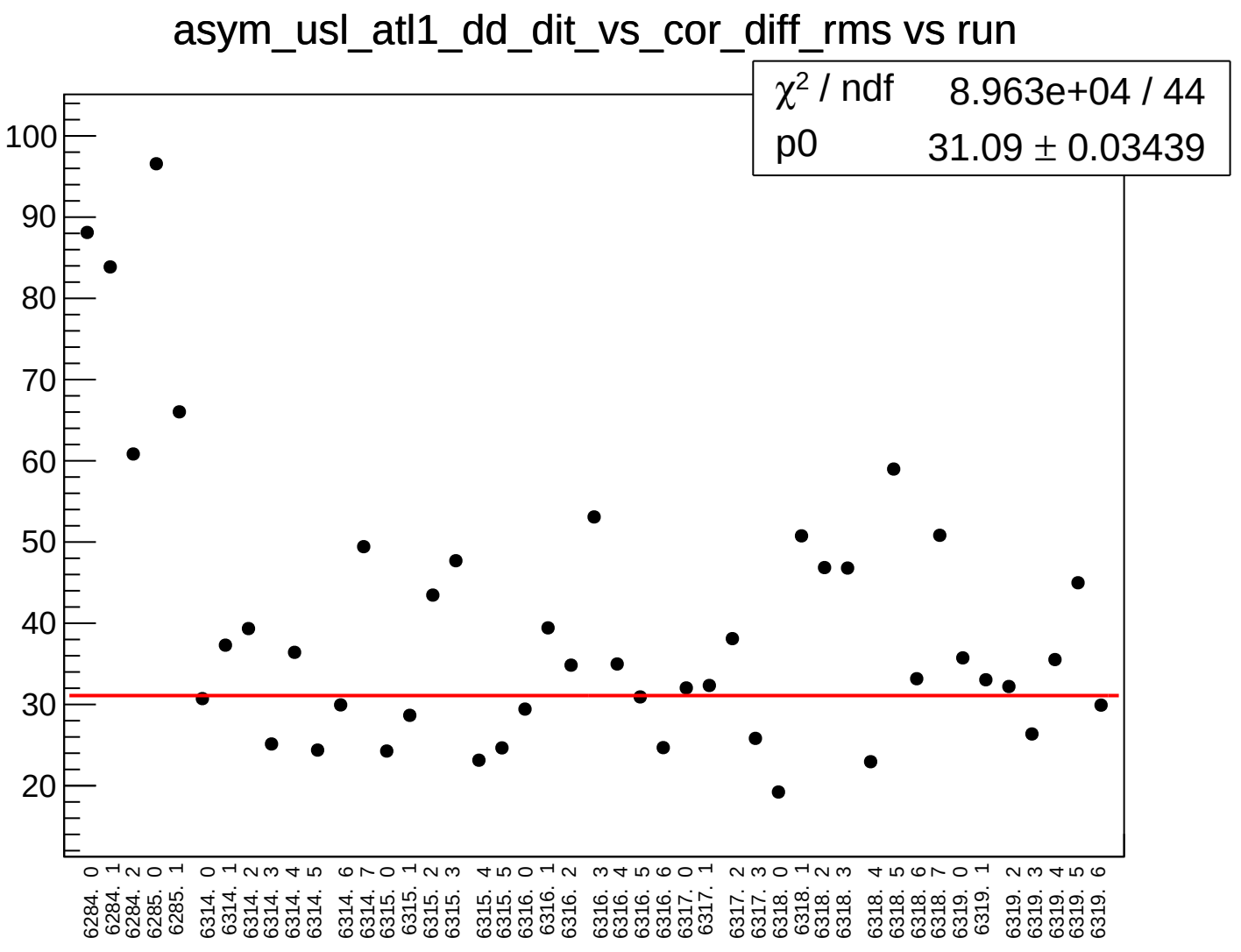

asym_usl_atl1_dd_rms vs run
χ² / ndf 417.3 / 44
p0 1338 ± 1.405
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

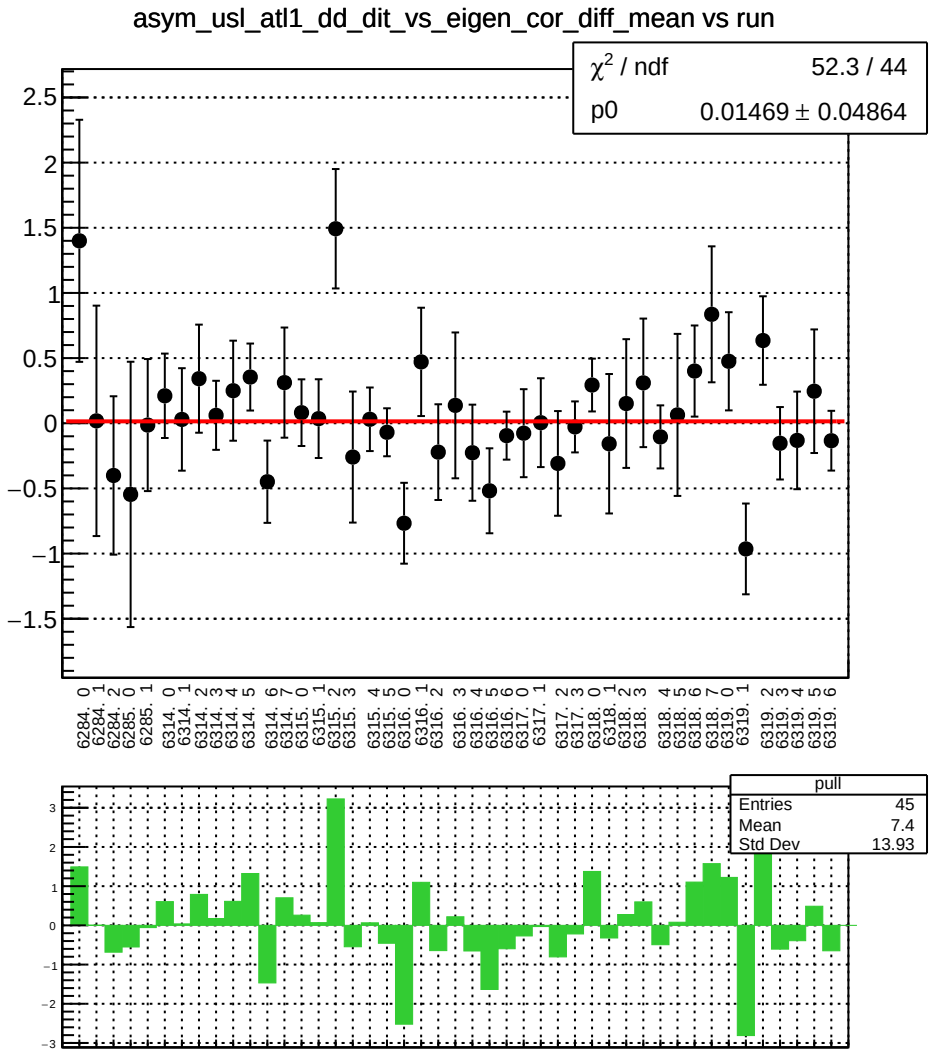

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.35 / 44
p0 −8.034e−14 ± 5.94e−14
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 51.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01923
Std Dev 0.7935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

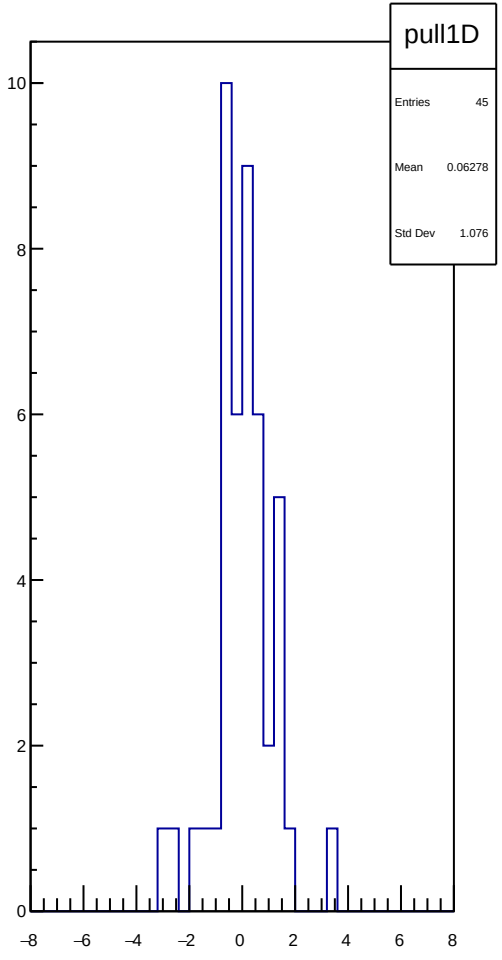

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 5.392e+05 / 44
p0 2.547e−11 ± 4.2e−14
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

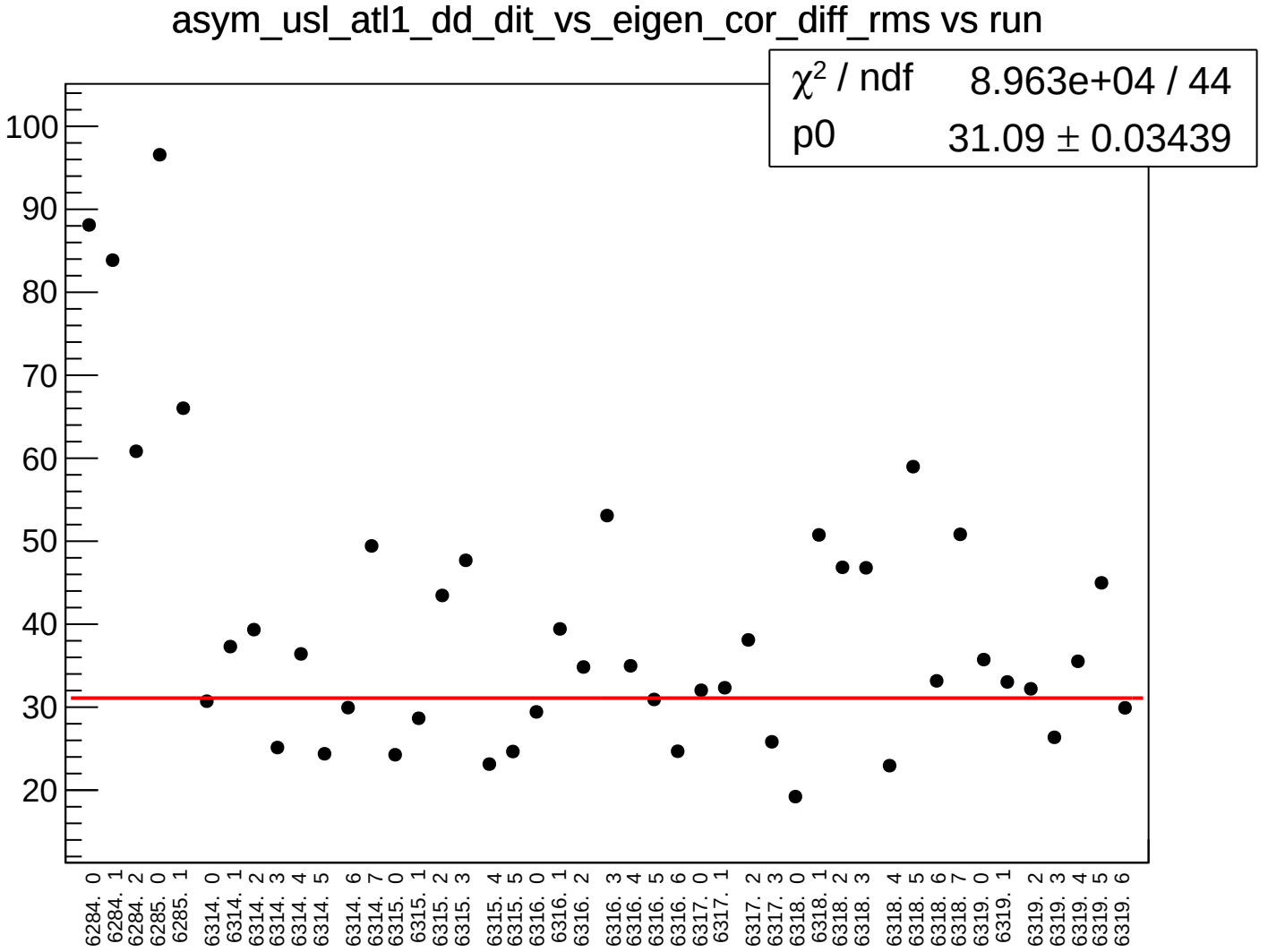

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.3 / 44
p0 0.01469 ± 0.04864
pull
Entries 45
Mean 7.4
Std Dev 13.93

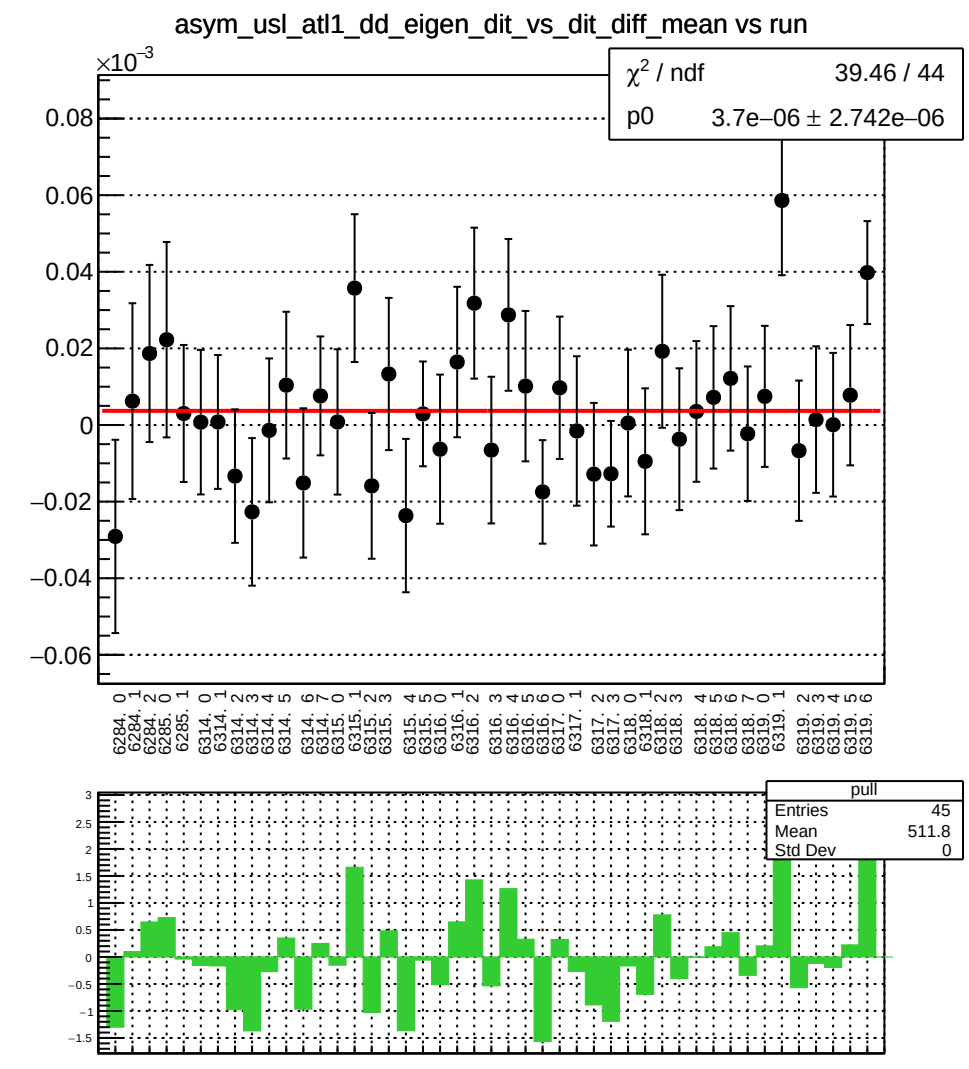

pull1D
Entries 45
Mean 0.06278
Std Dev 1.076

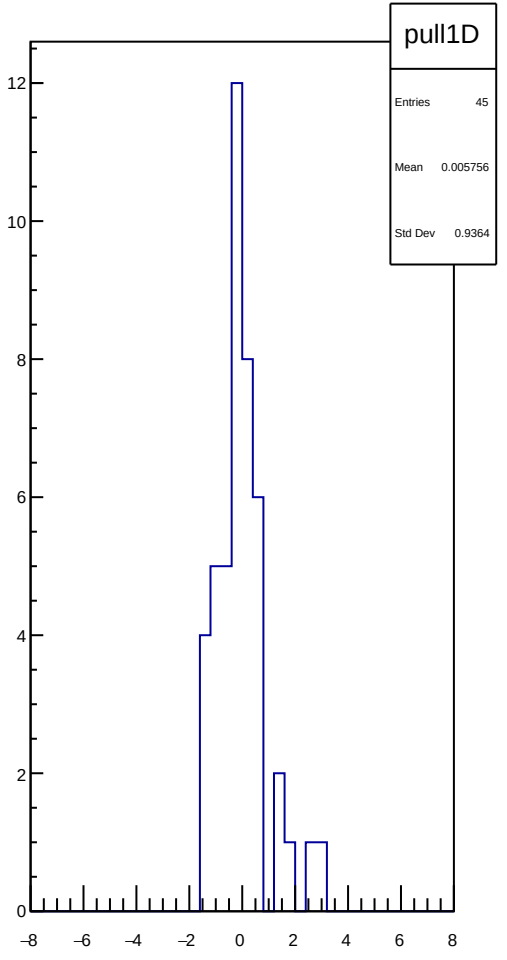

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.963e+04 / 44
p0 31.09 ± 0.03439
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

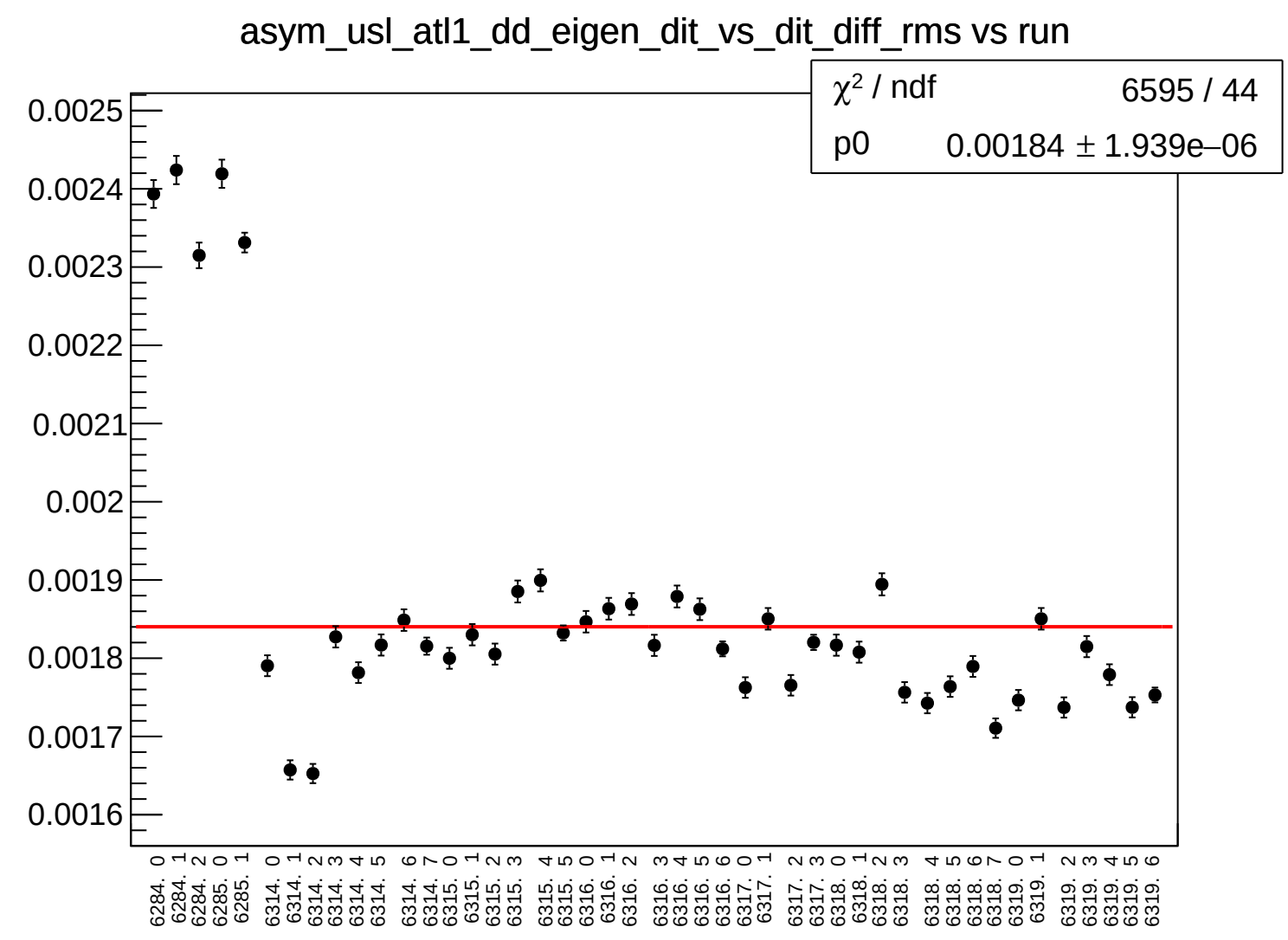

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.3 / 44
p0 0.01469 ± 0.04864
pull
Entries 45
Mean 7.4
Std Dev 13.93

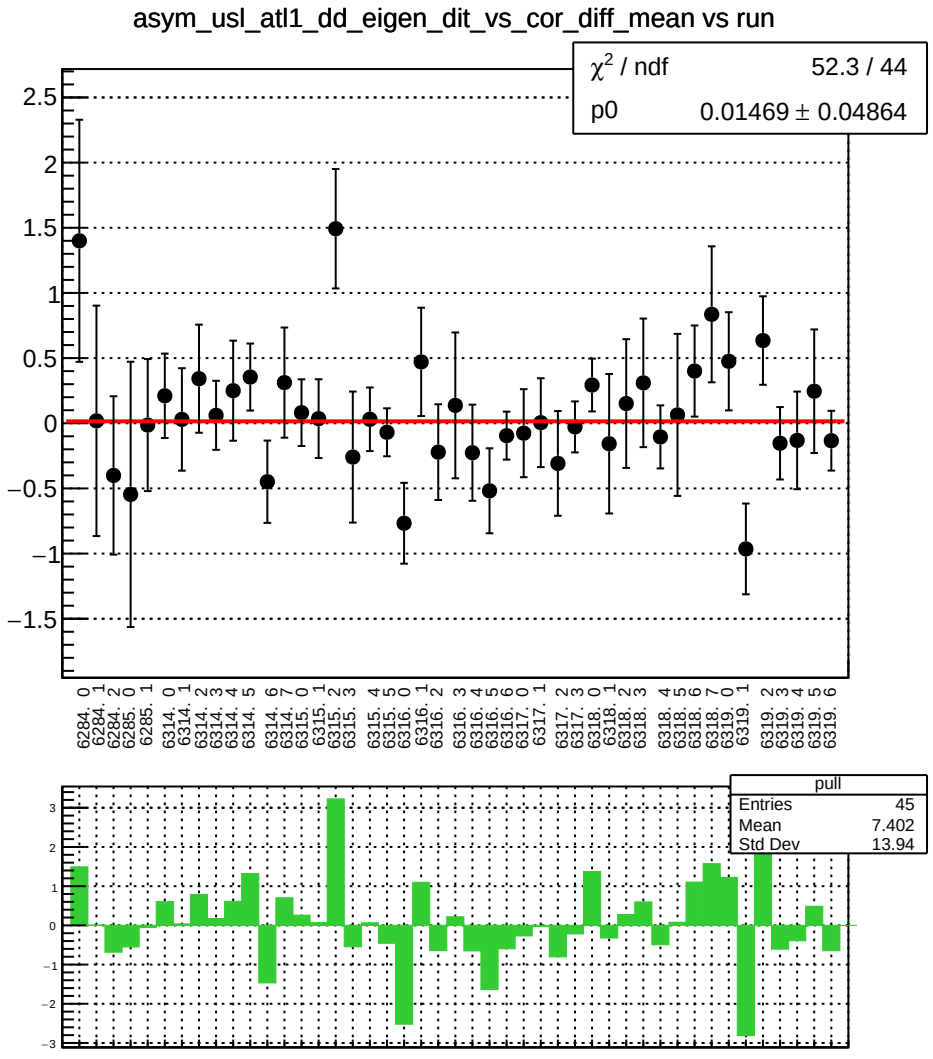

pull1D
Entries 45
Mean 0.06278
Std Dev 1.076

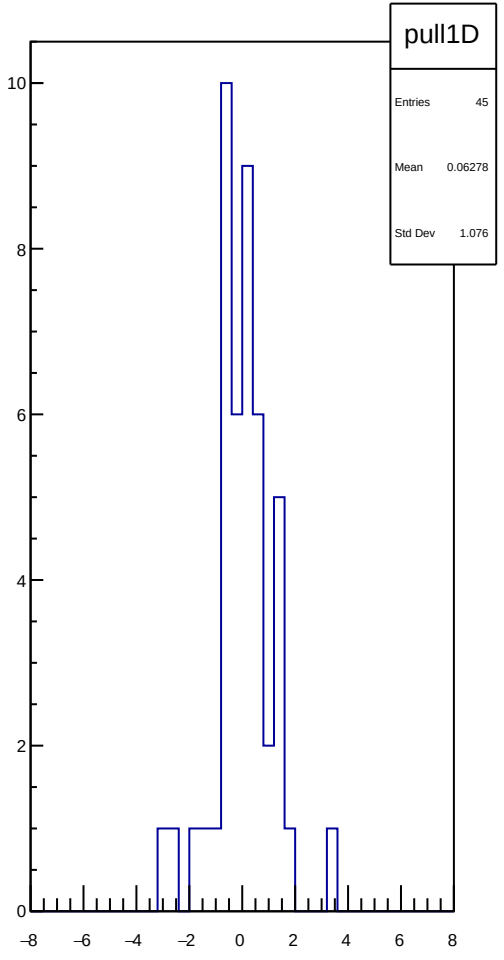

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.963e+04 / 44
p0 31.09 ± 0.03439
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

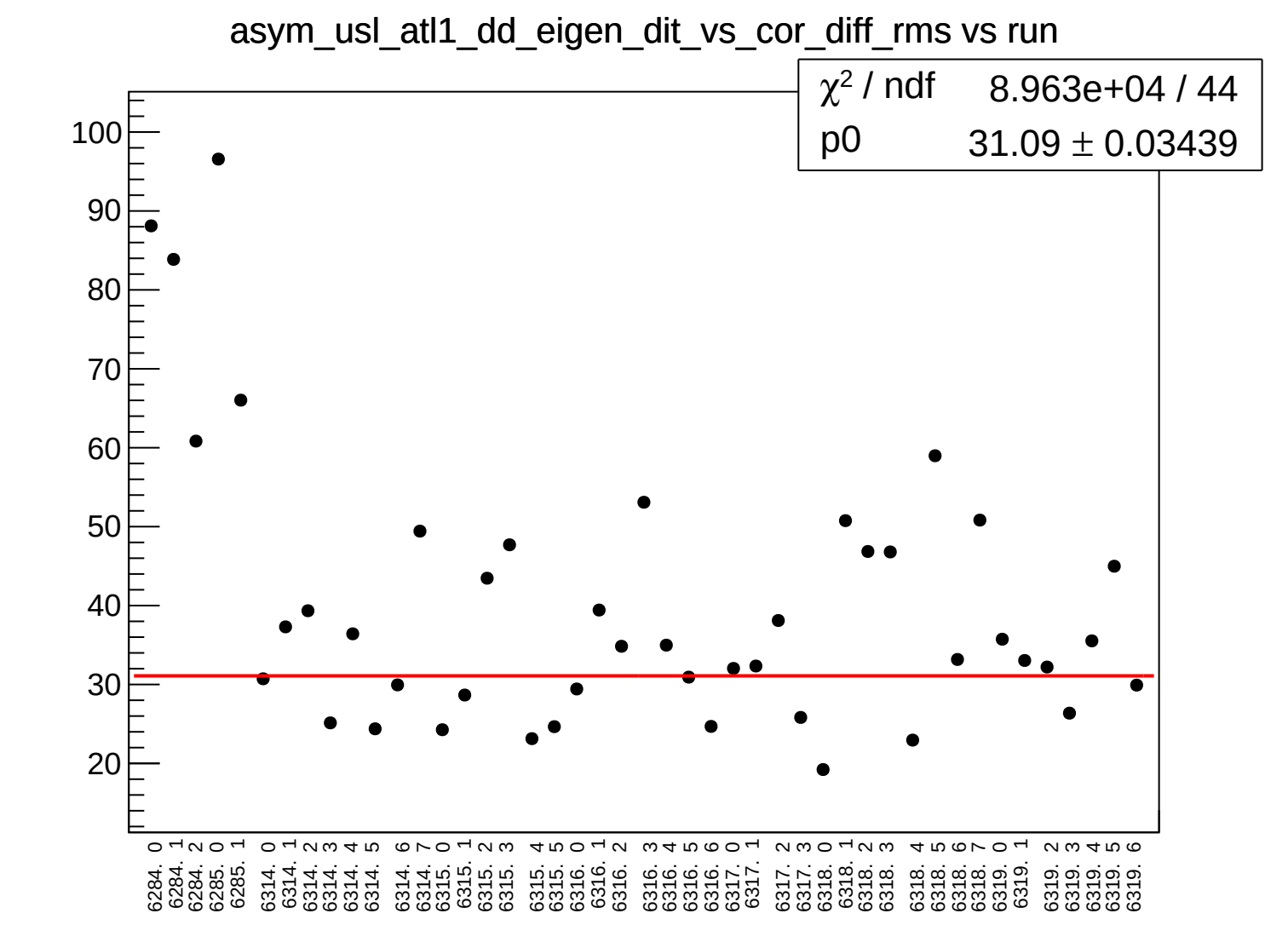

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.46 / 44
p0 3.7e−06 ± 2.742e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 511.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.005756
Std Dev 0.9364
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6595 / 44
p0 0.00184 ± 1.939e–06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.3 / 44
p0 0.01469 ± 0.04864
pull
Entries 45
Mean 7.402
Std Dev 13.94


pull1D
Entries 45
Mean 0.06278
Std Dev 1.076


asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.963e+04 / 44
p0 31.09 ± 0.03439
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 3
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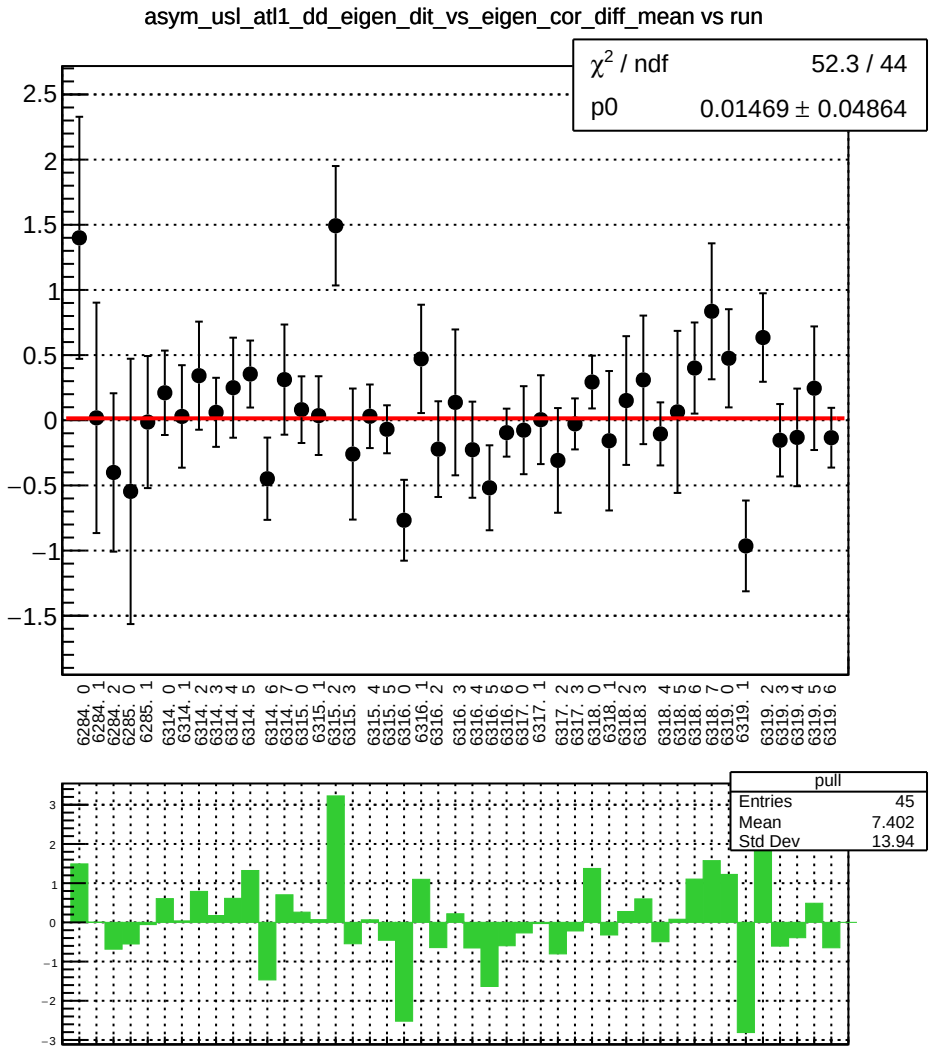
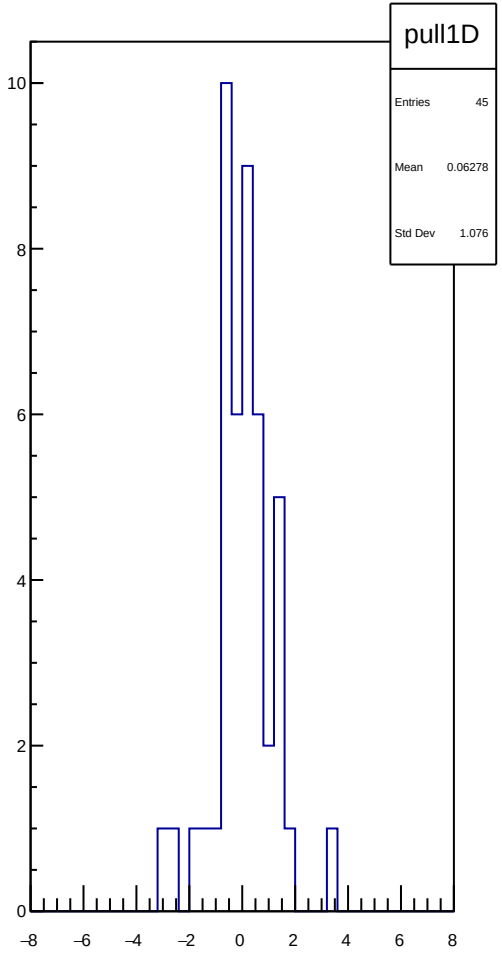
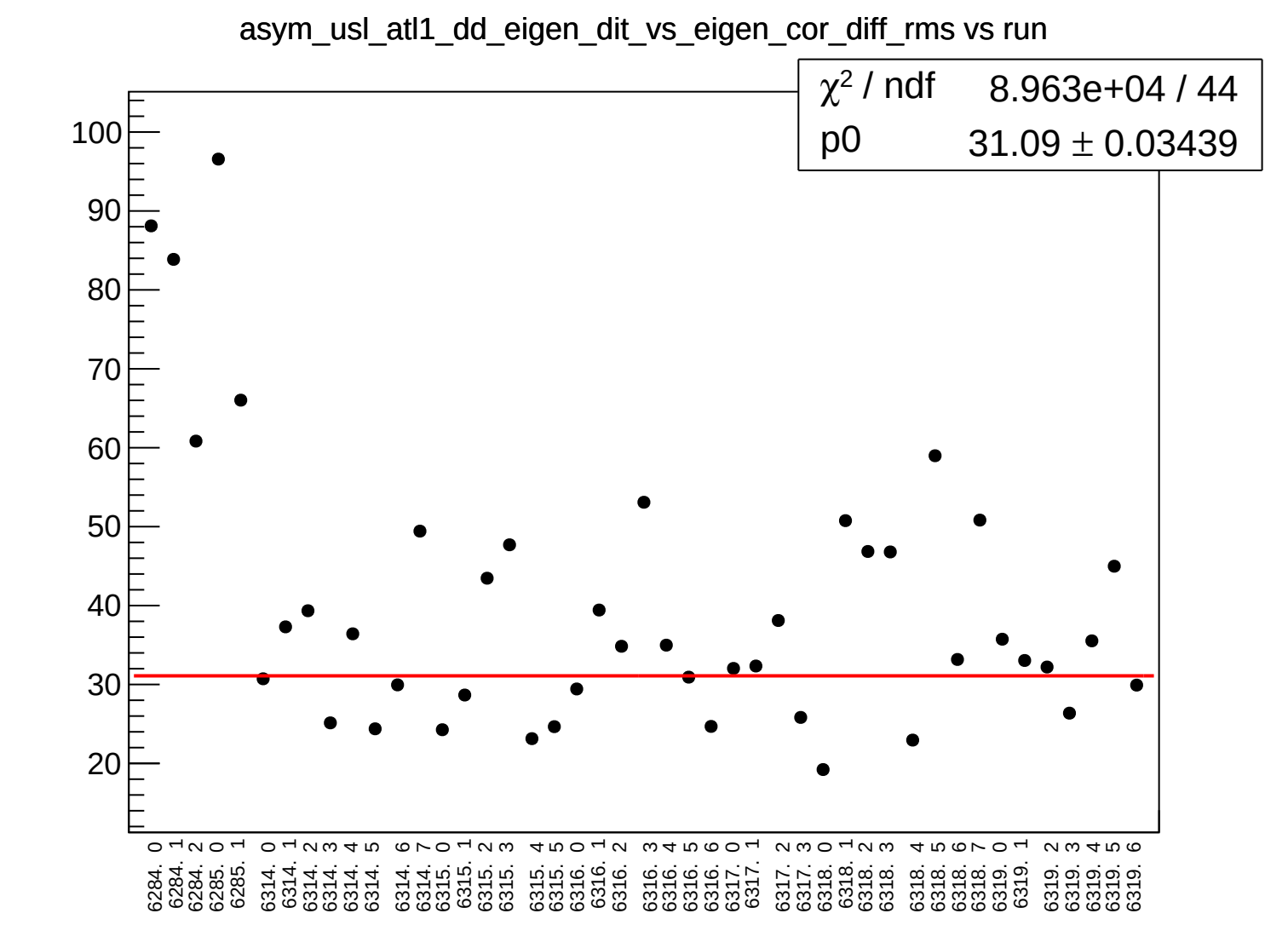
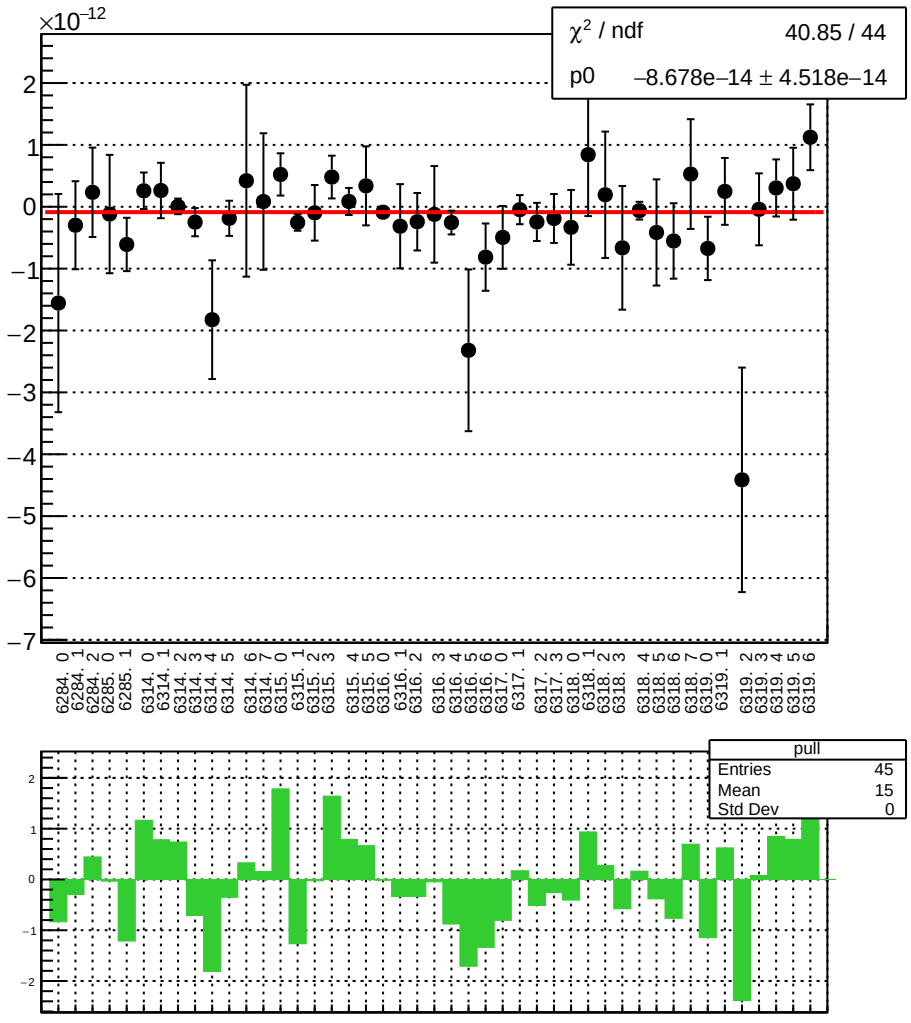
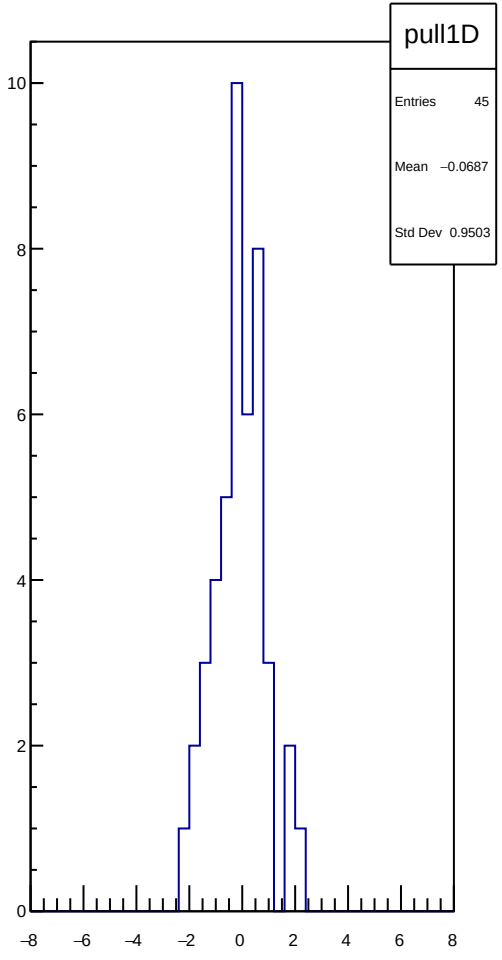
6319. 5
6319. 6

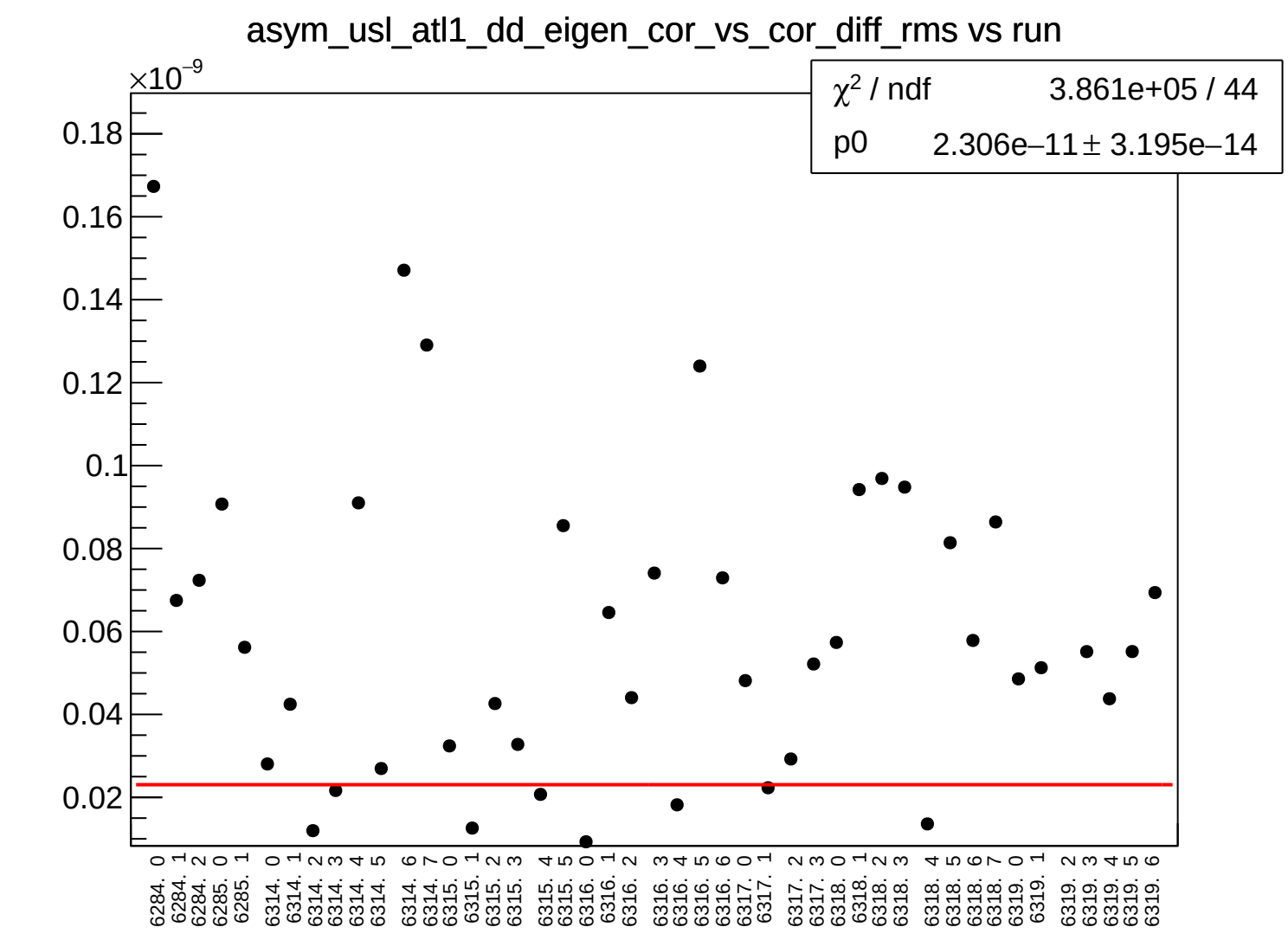

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.3 / 44
p0 0.01469 ± 0.04864
pull
Entries 45
Mean 7.402
Std Dev 13.94

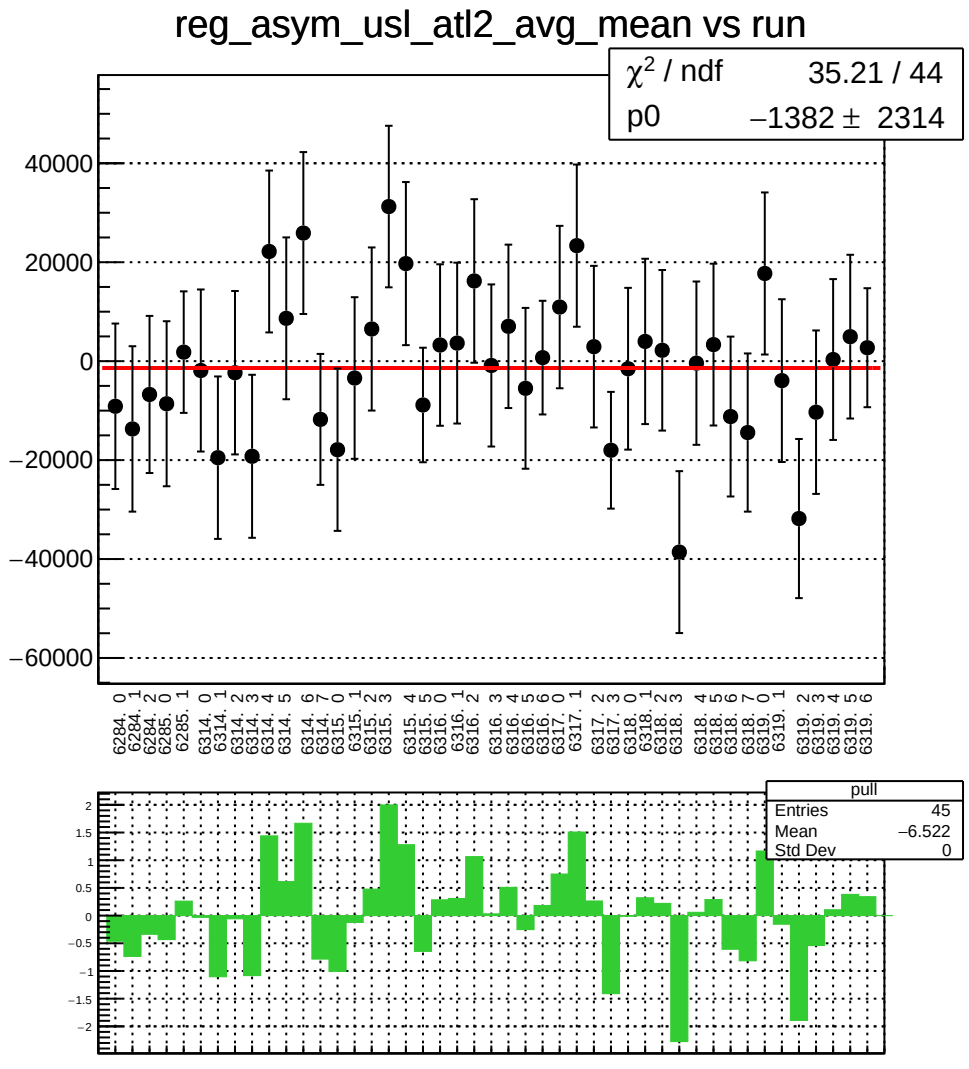

pull1D
Entries 45
Mean 0.06278
Std Dev 1.076

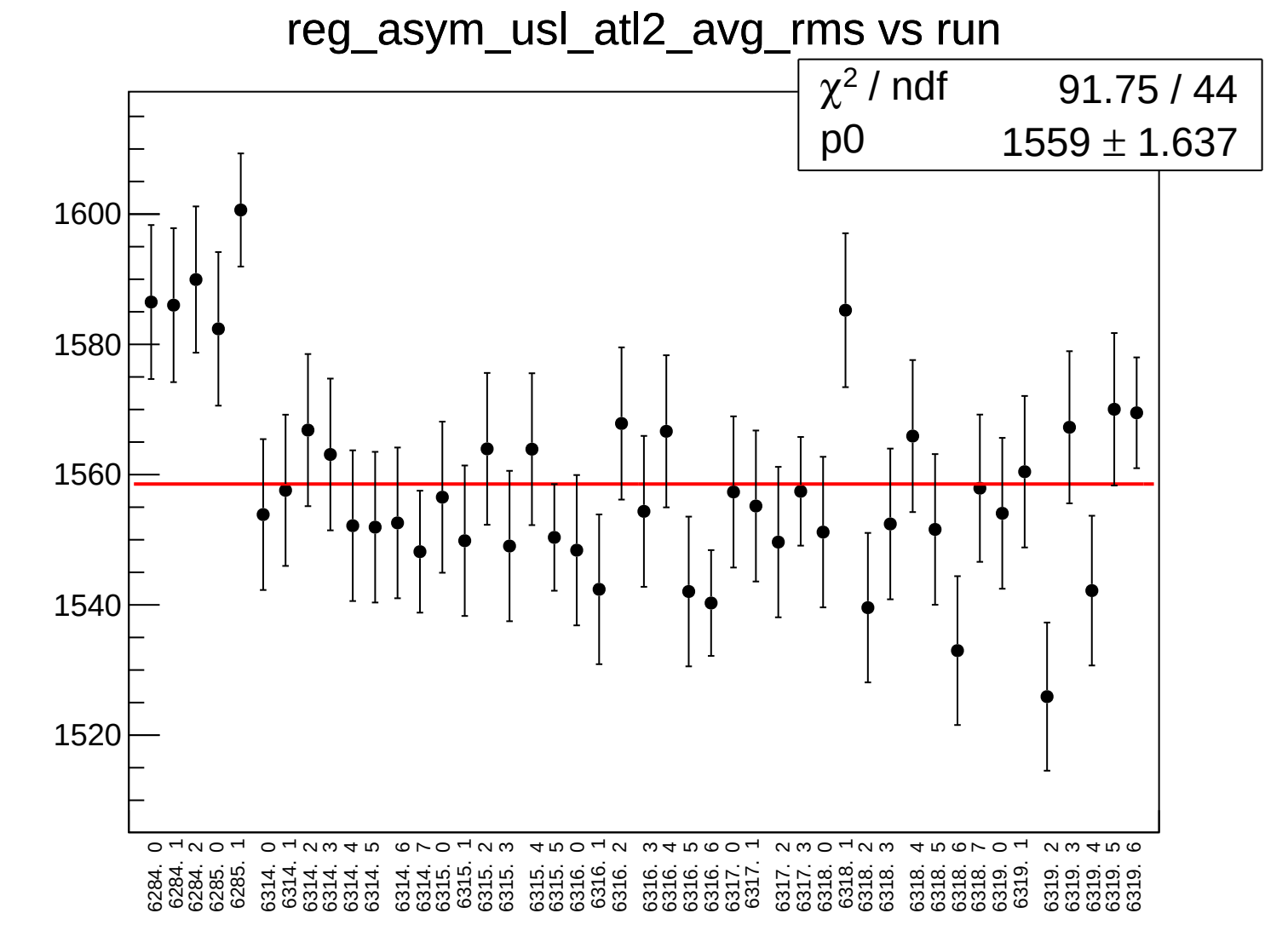

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.963e+04 / 44
p0 31.09 ± 0.03439
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

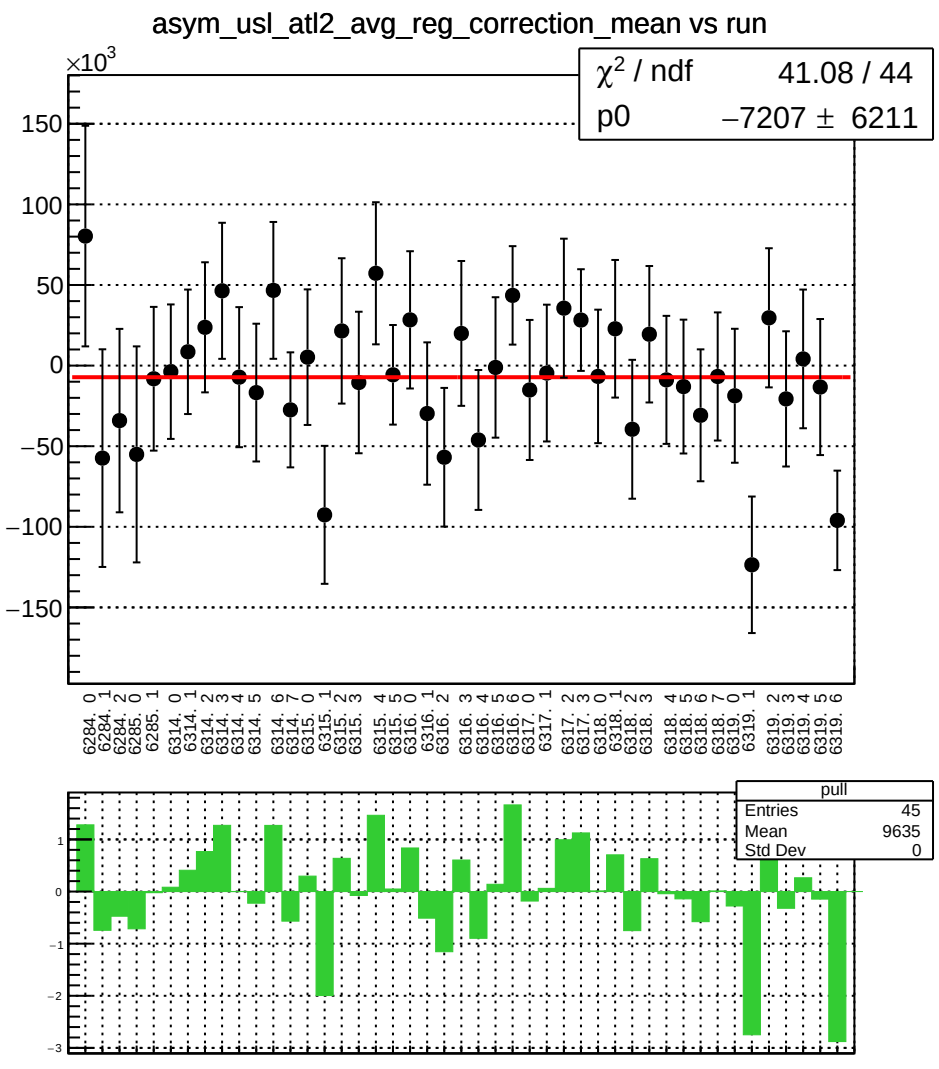

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.85 / 44
p0 −8.678e−14 ± 4.518e−14
pull
Entries 45
Mean 15
Std Dev 0

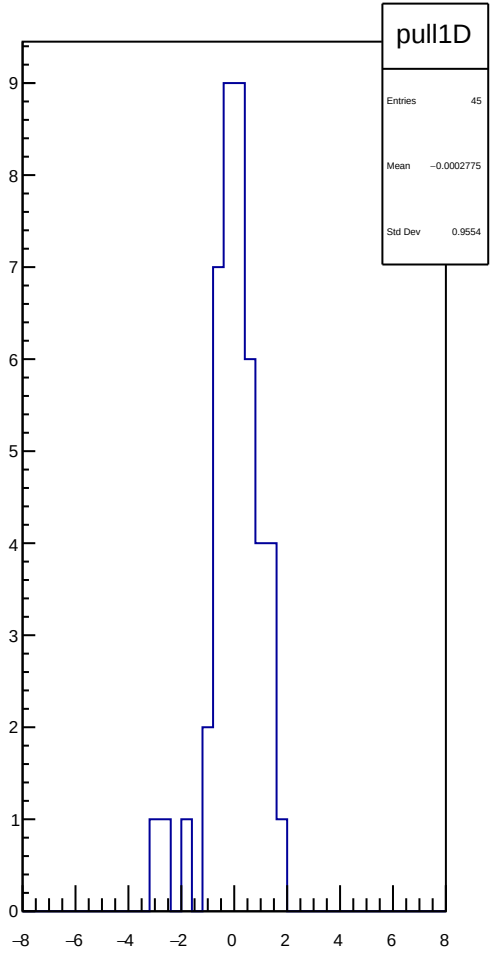

pull1D
Entries 45
Mean −0.0687
Std Dev 0.9503

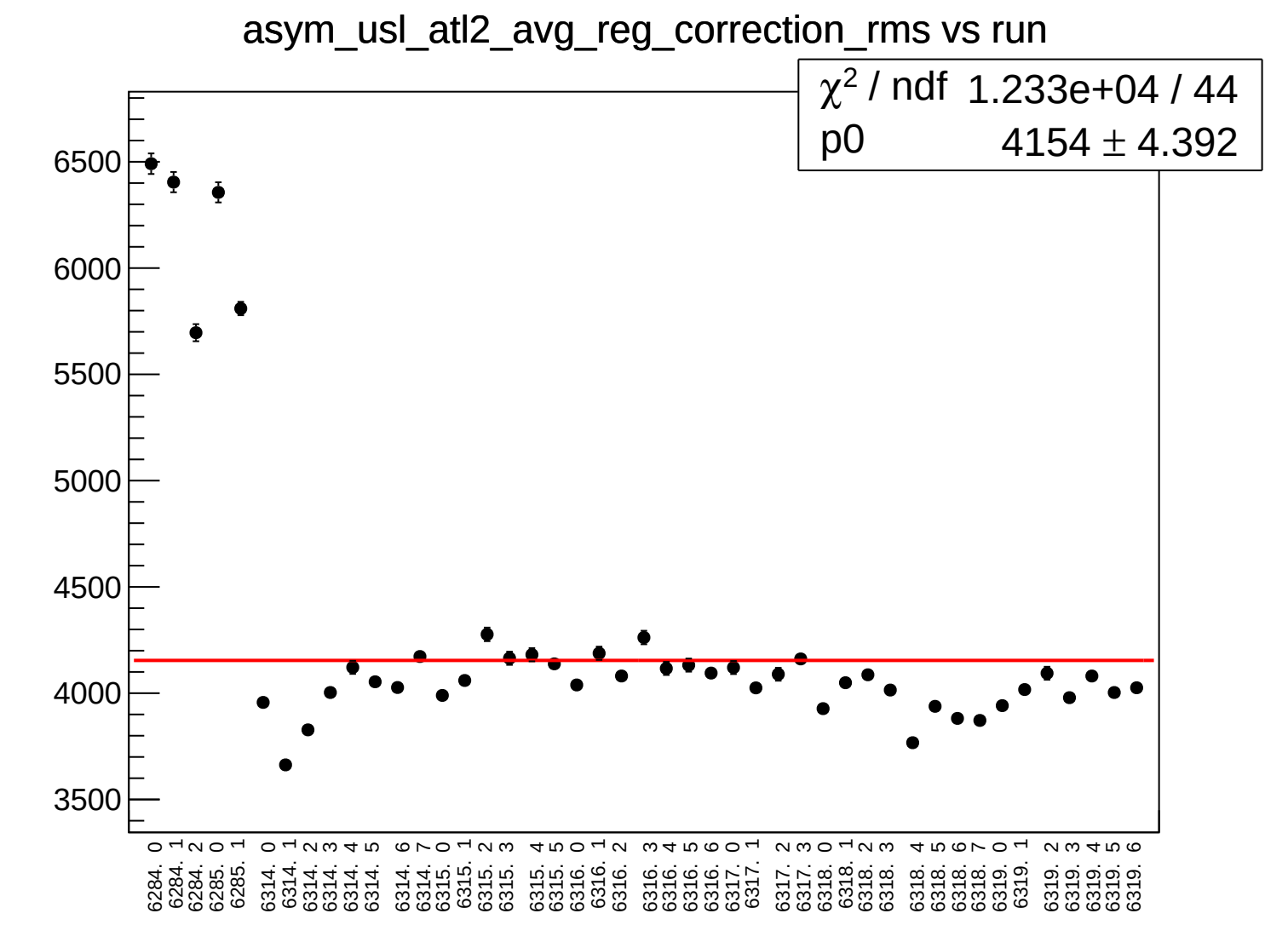

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.861e+05 / 44
p0 2.306e−11 ± 3.195e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

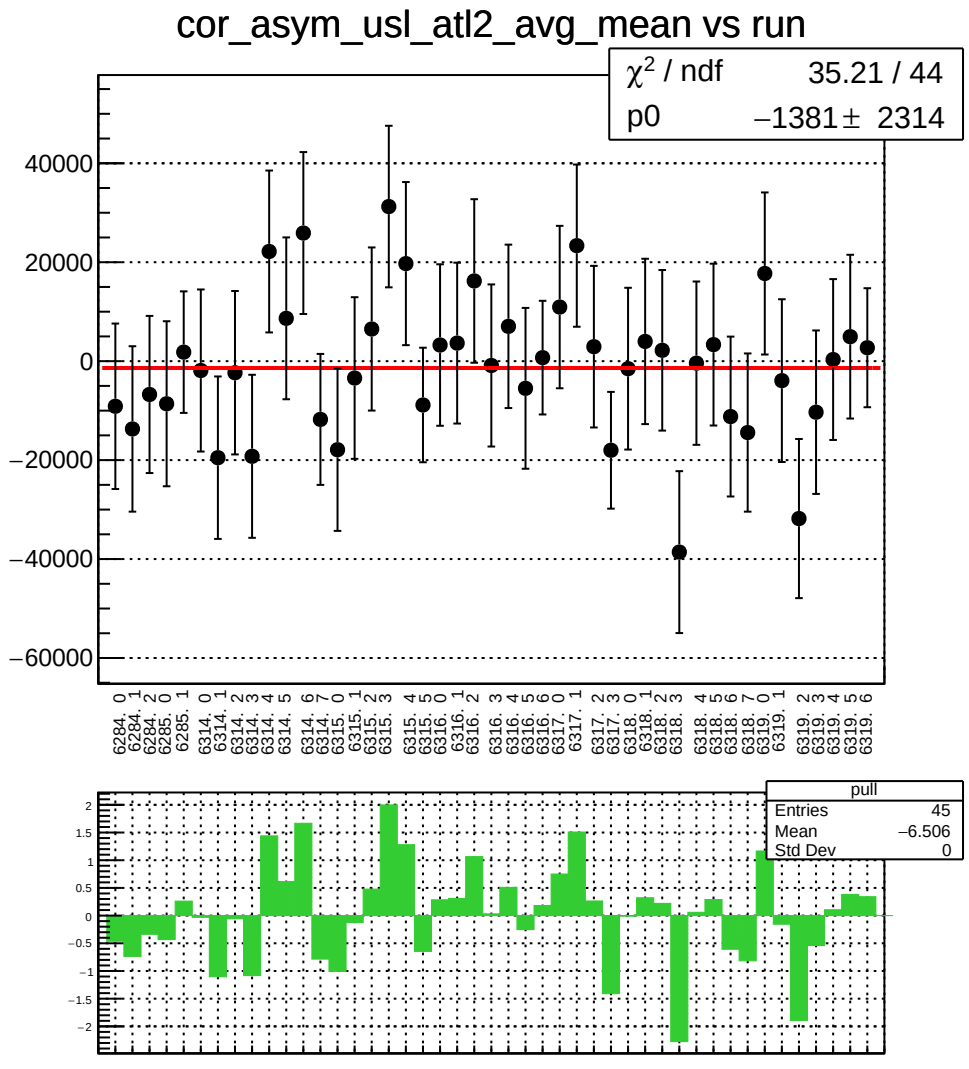

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.21 / 44
p0 −1382 ± 2314
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.522
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01698
Std Dev 0.8845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

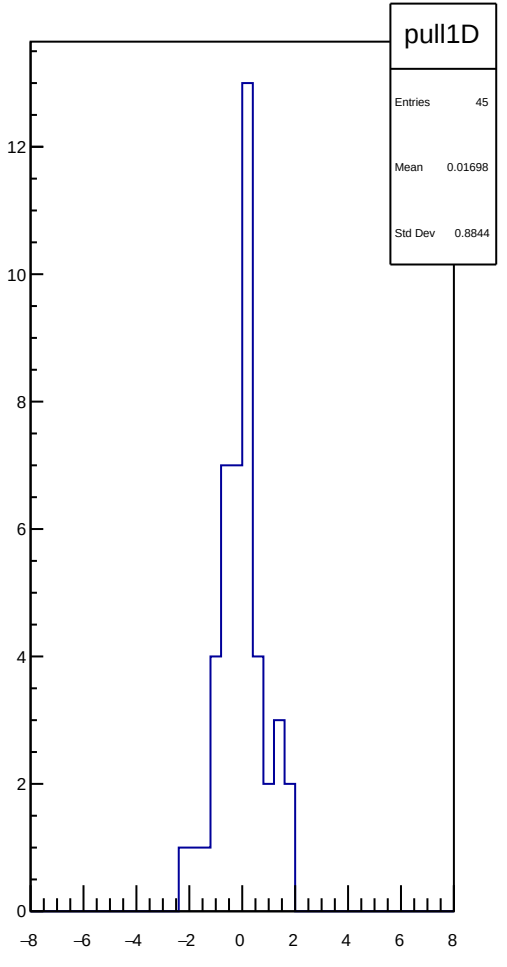

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 91.75 / 44
p0 1559 ± 1.637
1600
1580
1560
1540
1520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

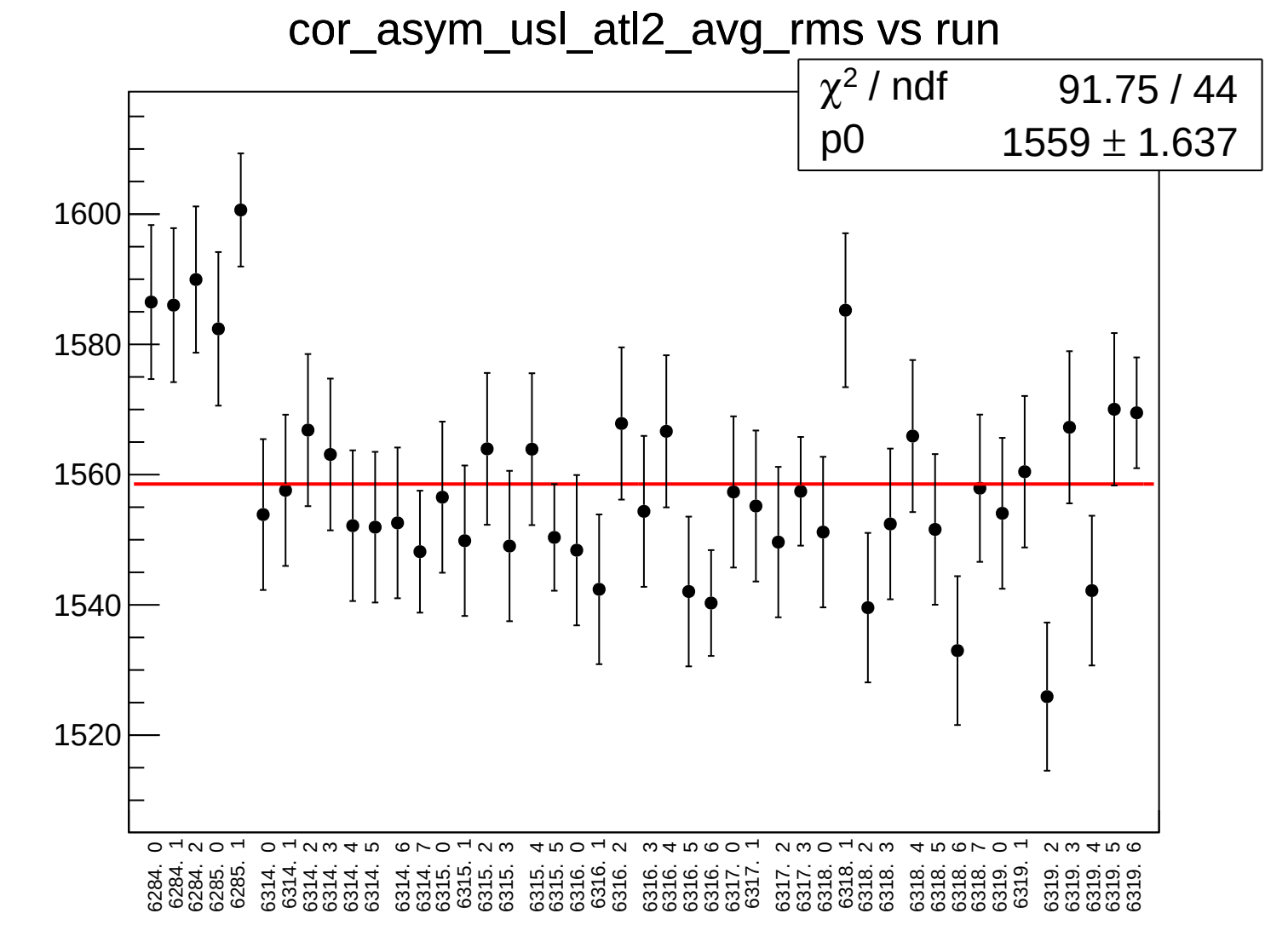

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.08 / 44
p0 −7207 ± 6211
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 9635
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0002775
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.233e+04 / 44
p0 4154 ± 4.392
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.21 / 44
p0 −1381 ± 2314
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.506
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01698
Std Dev 0.8844
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 91.75 / 44
p0 1559 ± 1.637
1600
1580
1560
1540
1520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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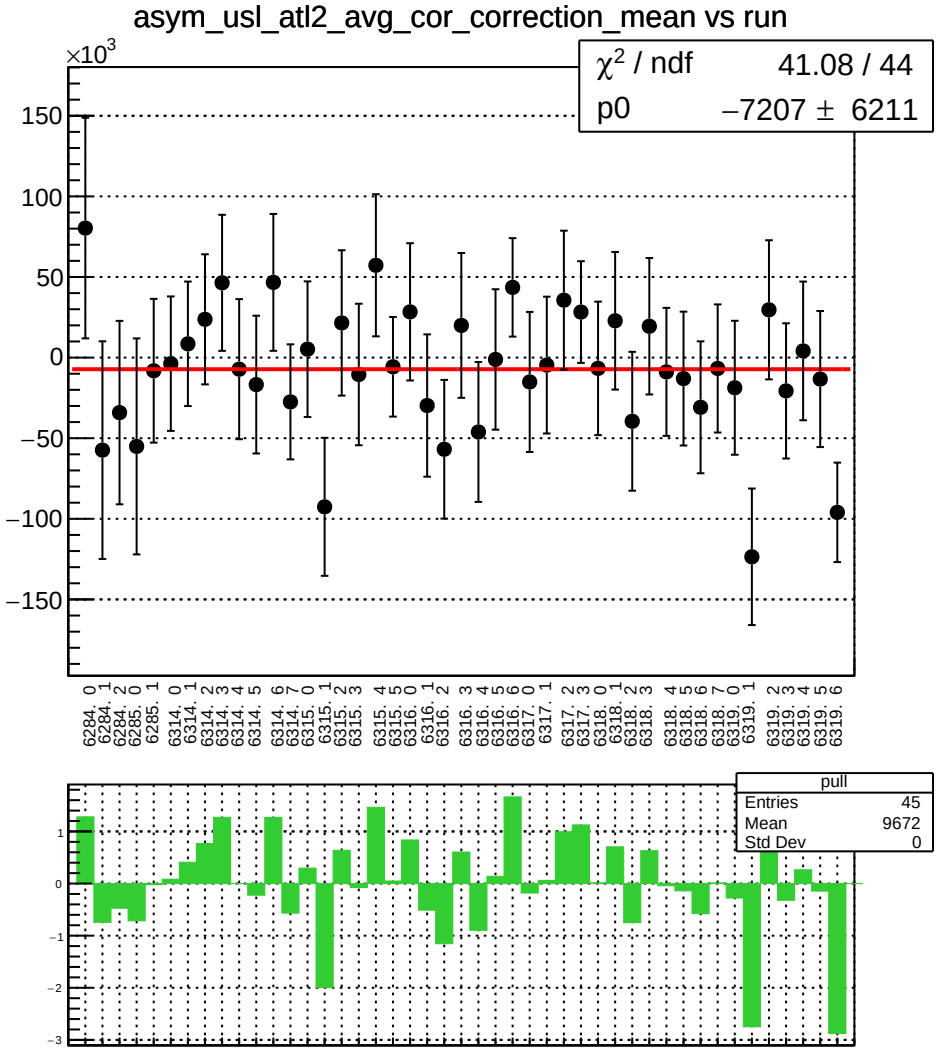
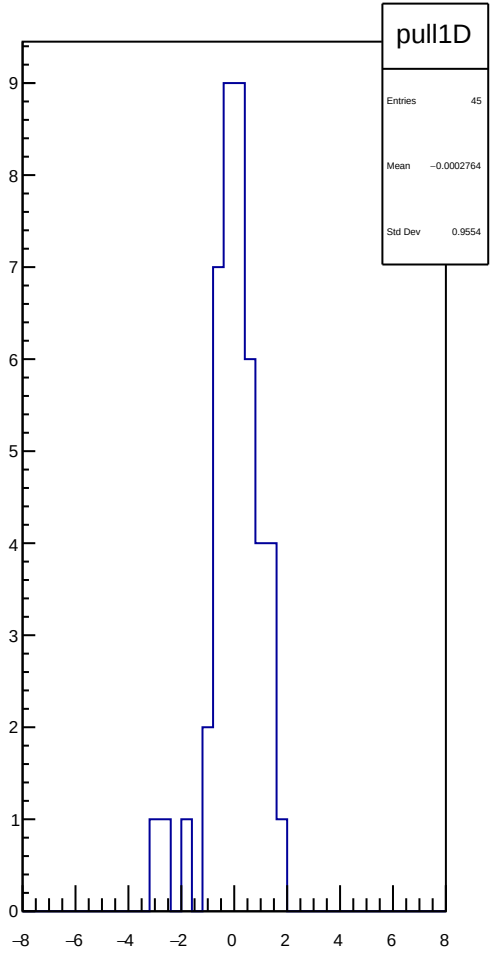
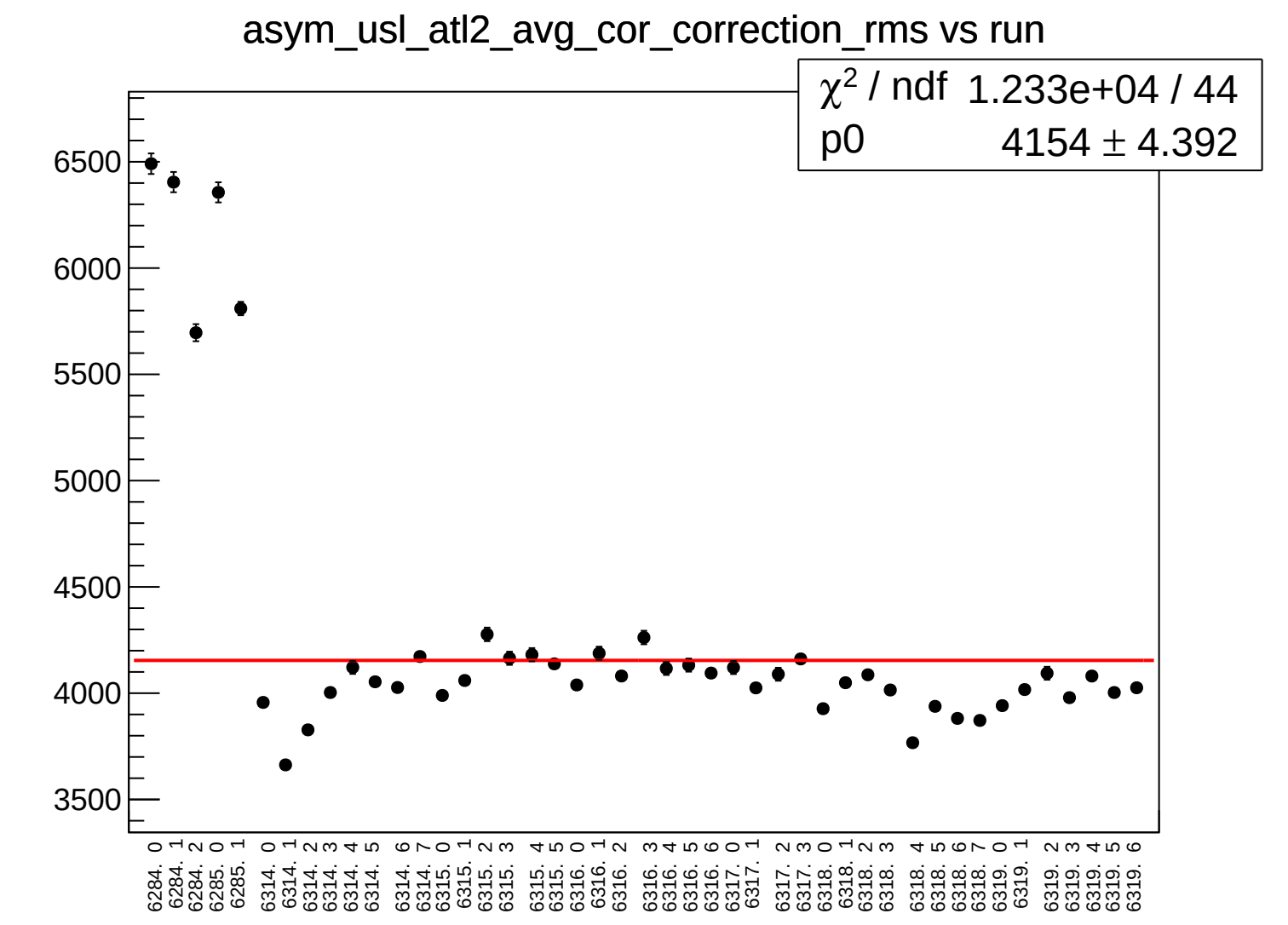
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.08 / 44
p0 −7207 ± 6211
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 9672
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0002764
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 44
p0 4154 ± 4.392
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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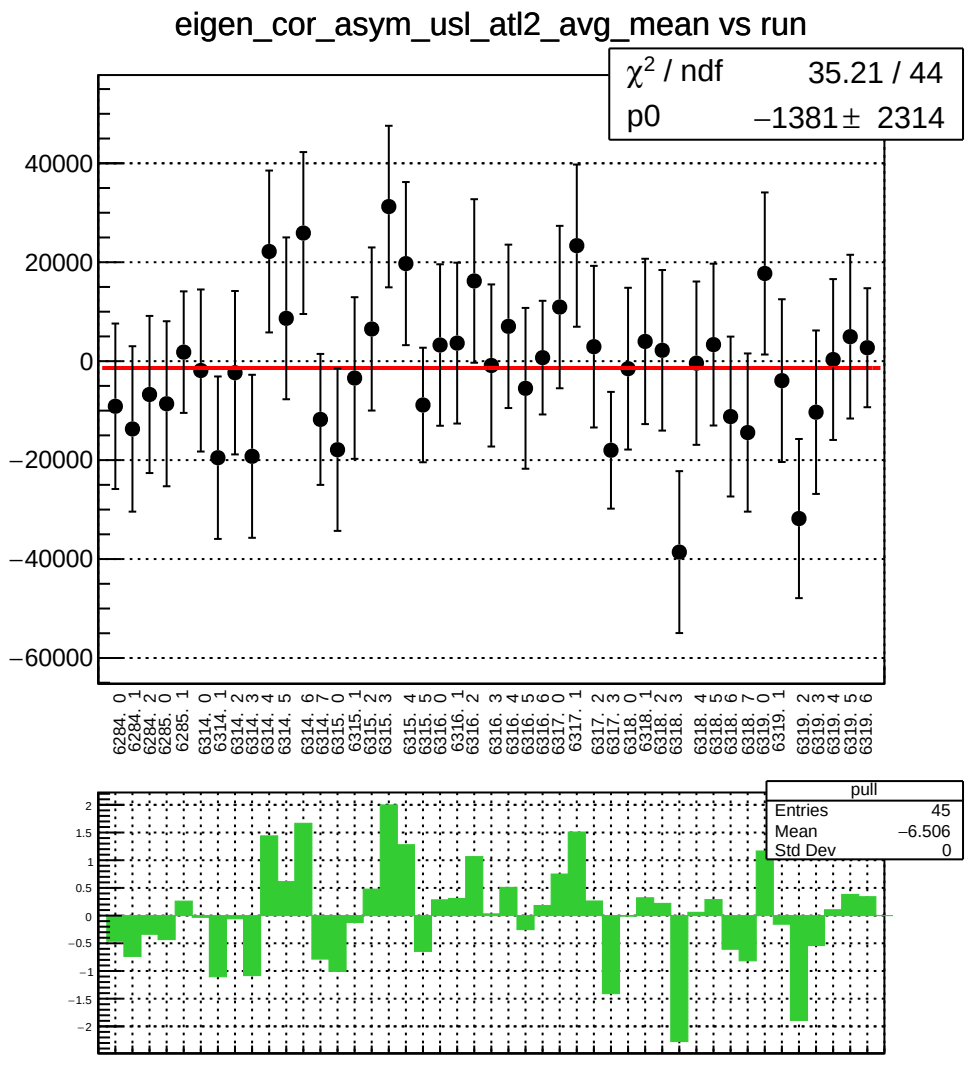
6319. 5
6319. 6


eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.21 / 44
p0 −1381 ± 2314
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
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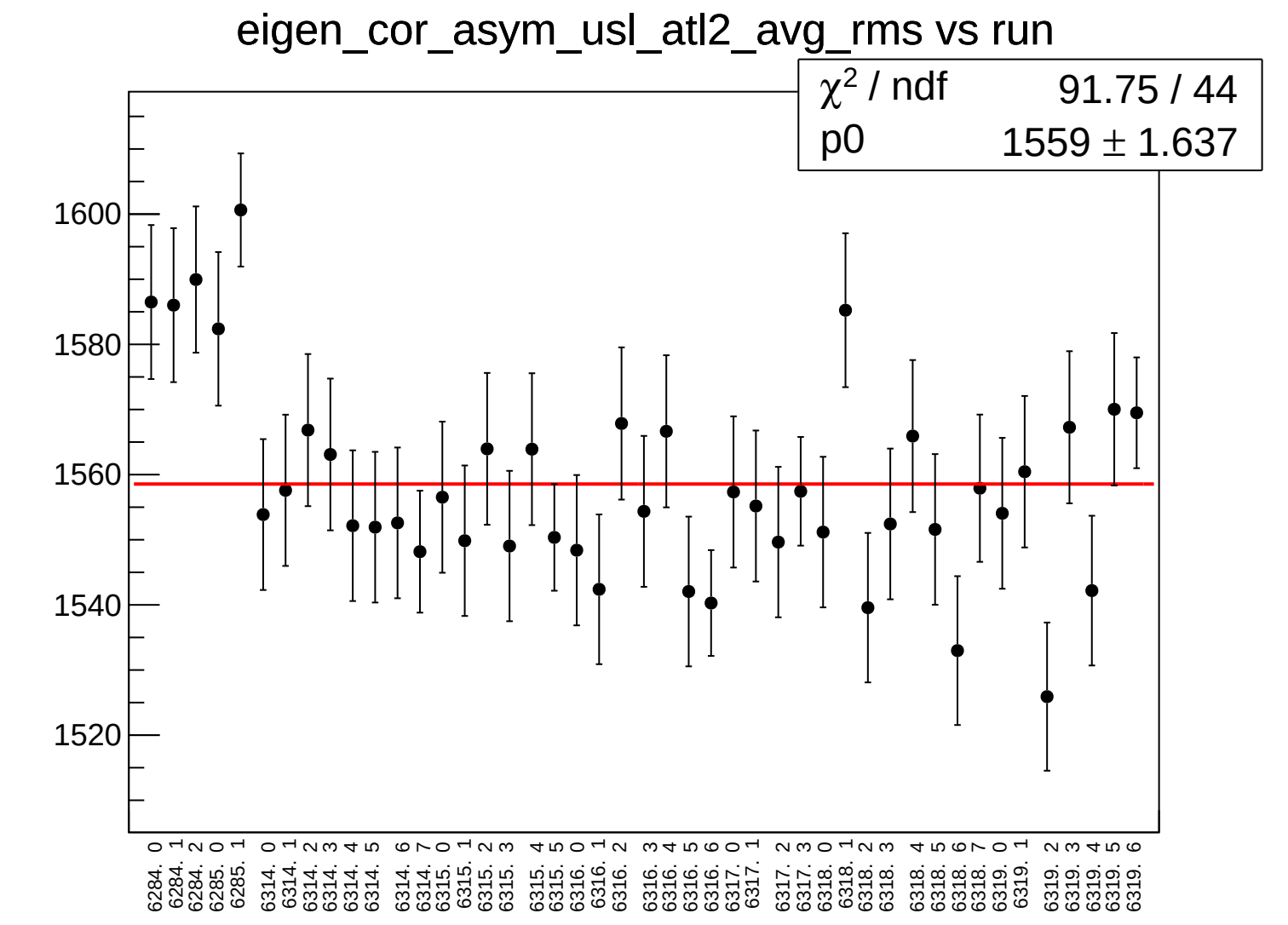
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.506
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01698
Std Dev 0.8844
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 91.75 / 44
p0 1559 ± 1.637
1600
1580
1560
1540
1520
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6318. 7
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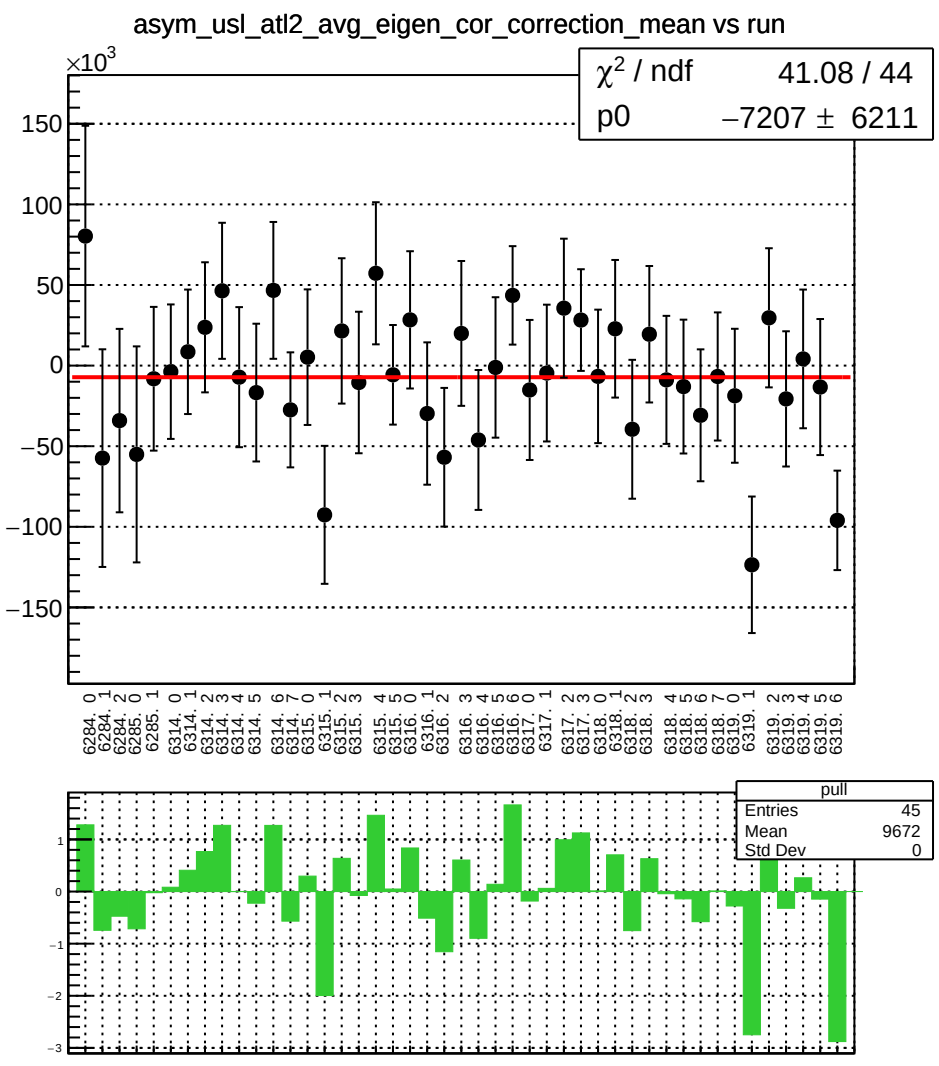
6319. 6


asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.08 / 44
p0 −7207 ± 6211
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
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6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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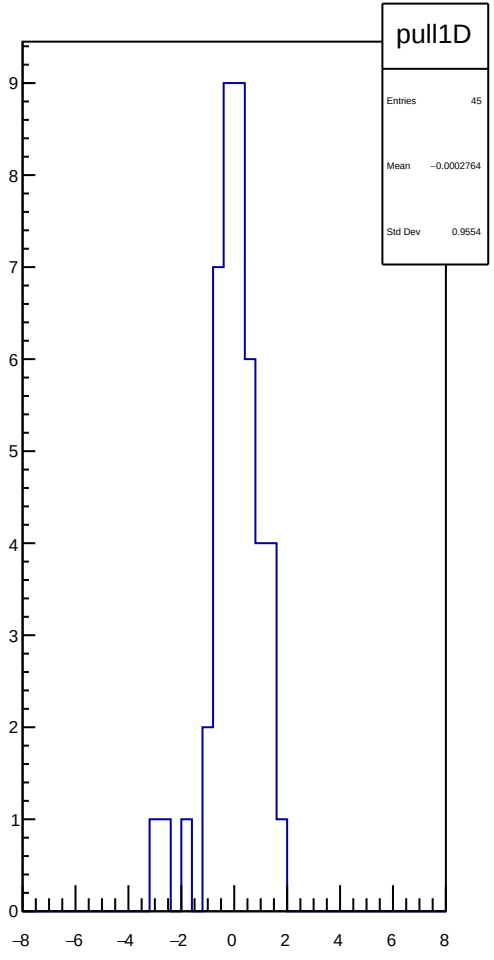
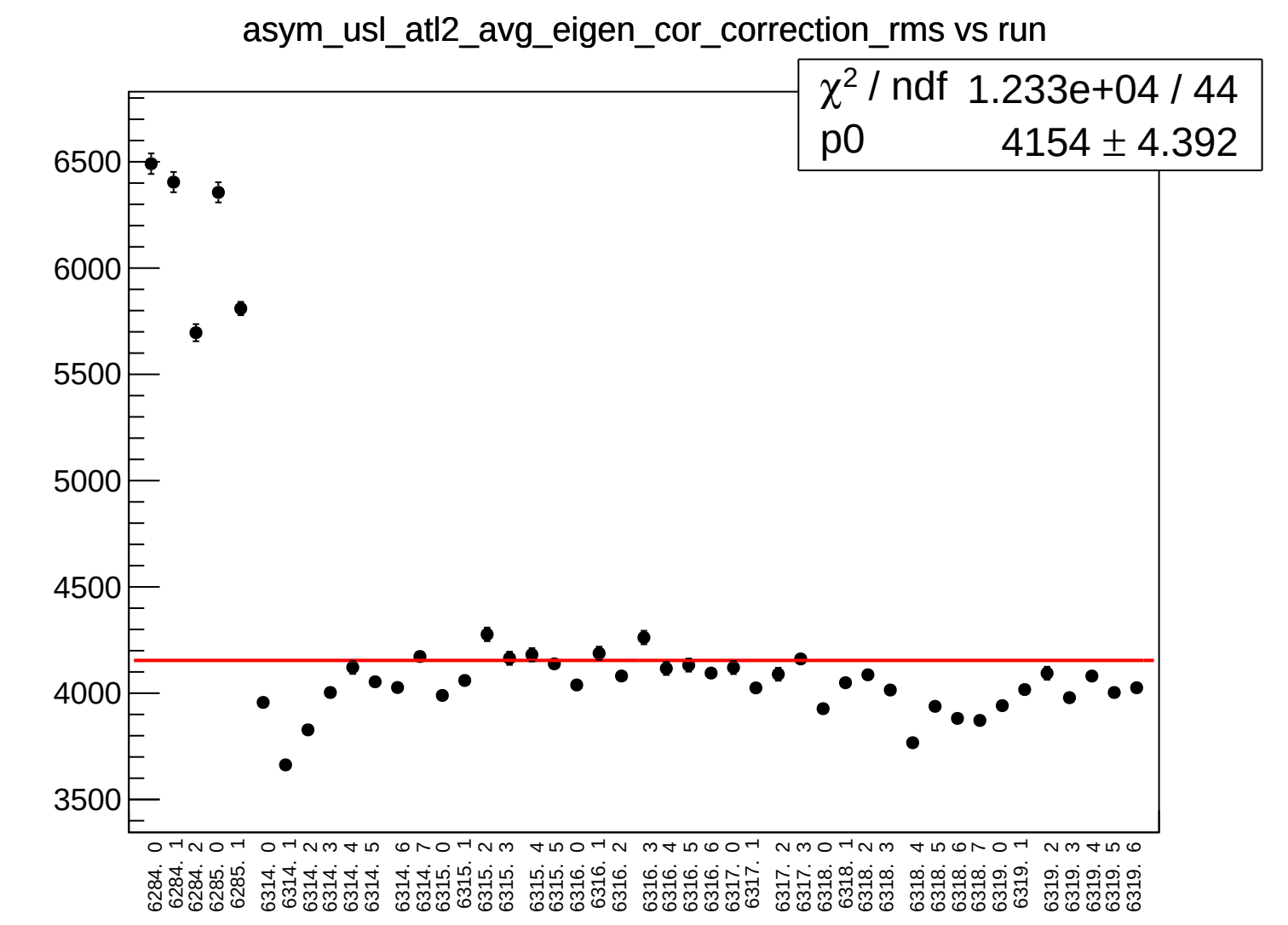
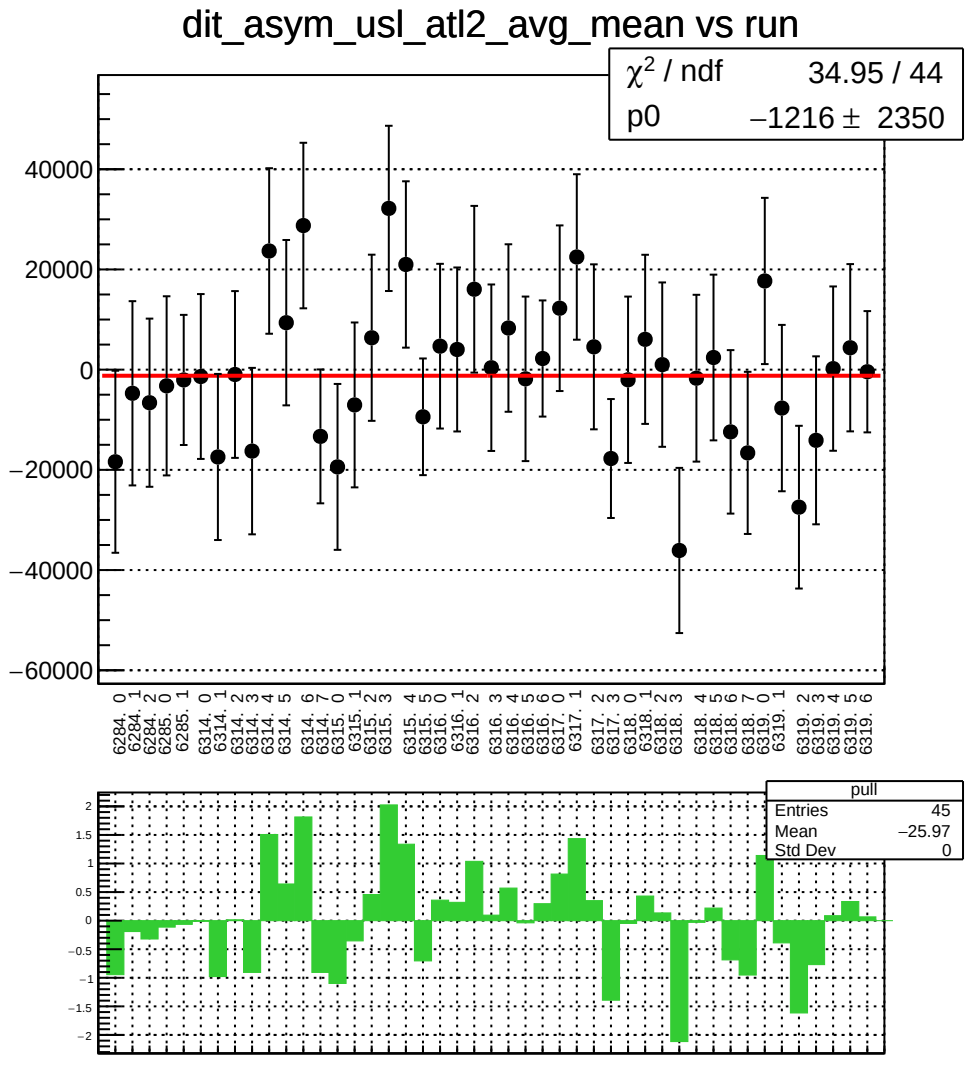
6319. 5
6319. 6
pull
Entries 45
Mean 9672
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.0002764
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 44
p0 4154 ± 4.392
6500
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 34.95 / 44
p0 −1216 ± 2350
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
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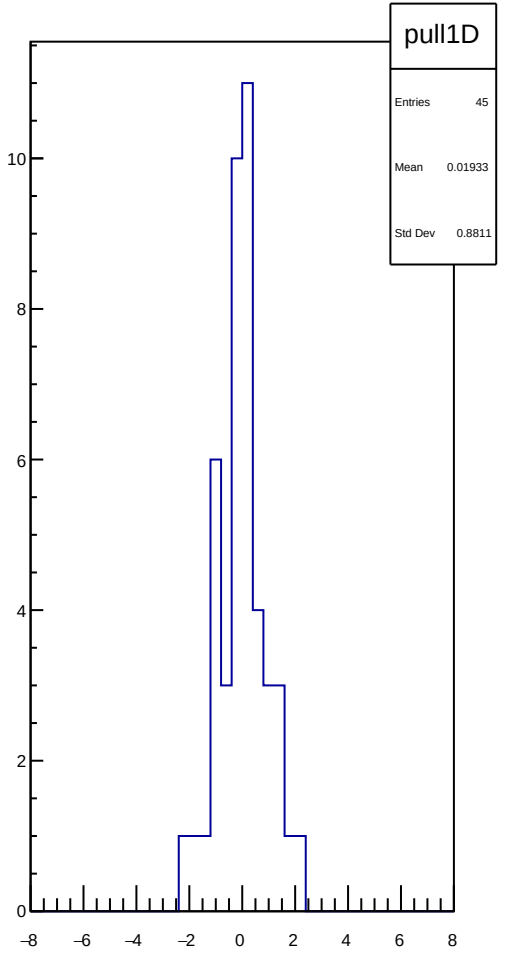
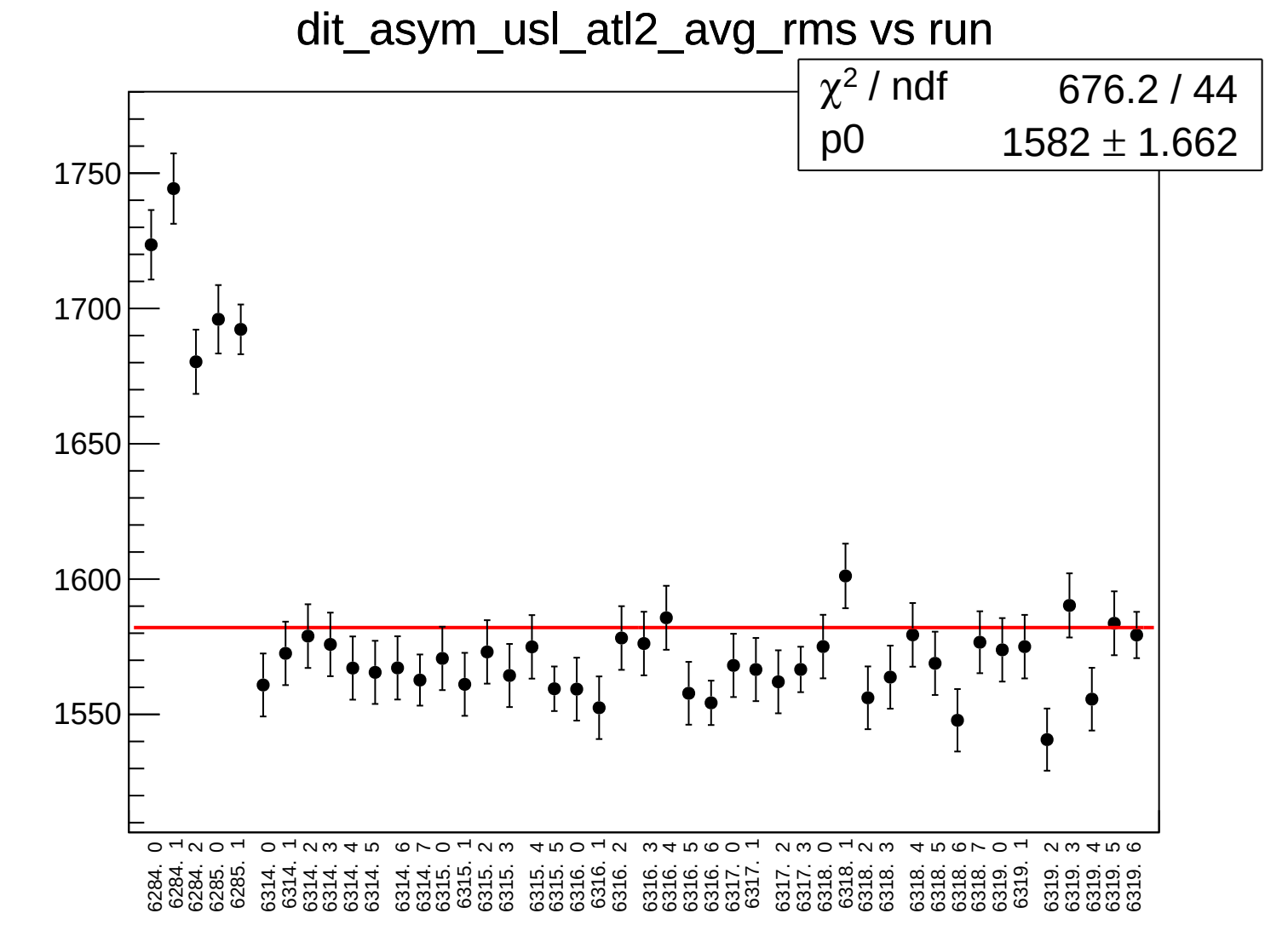
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01933
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 676.2 / 44
p0 1582 ± 1.662
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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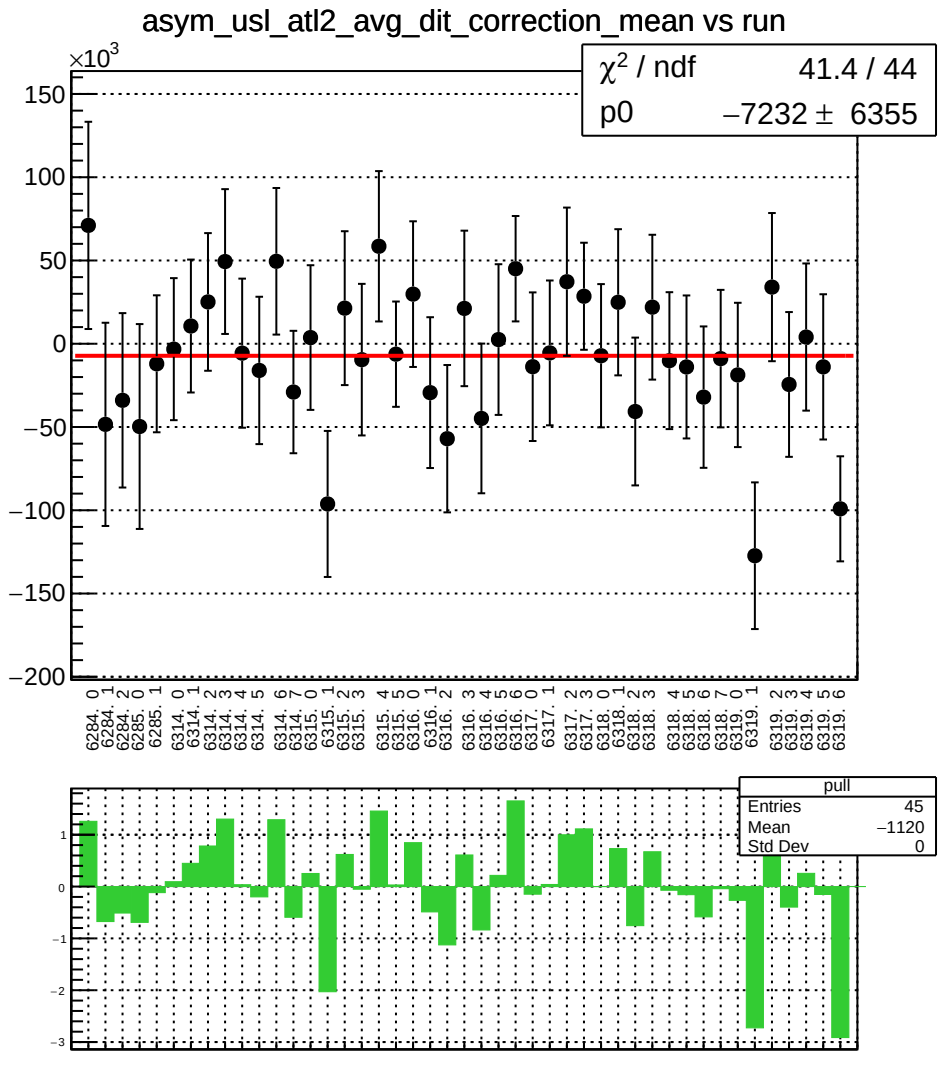
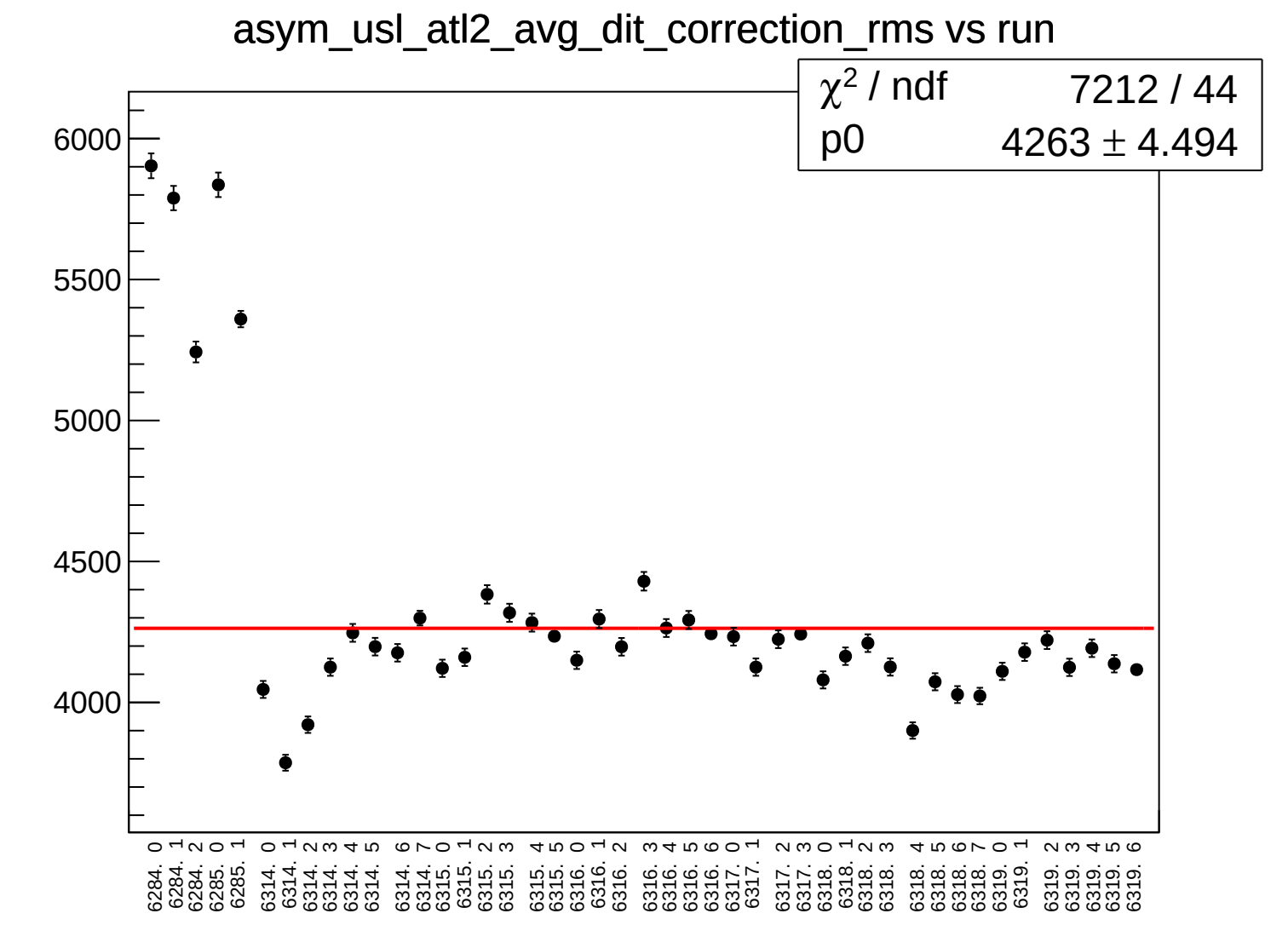
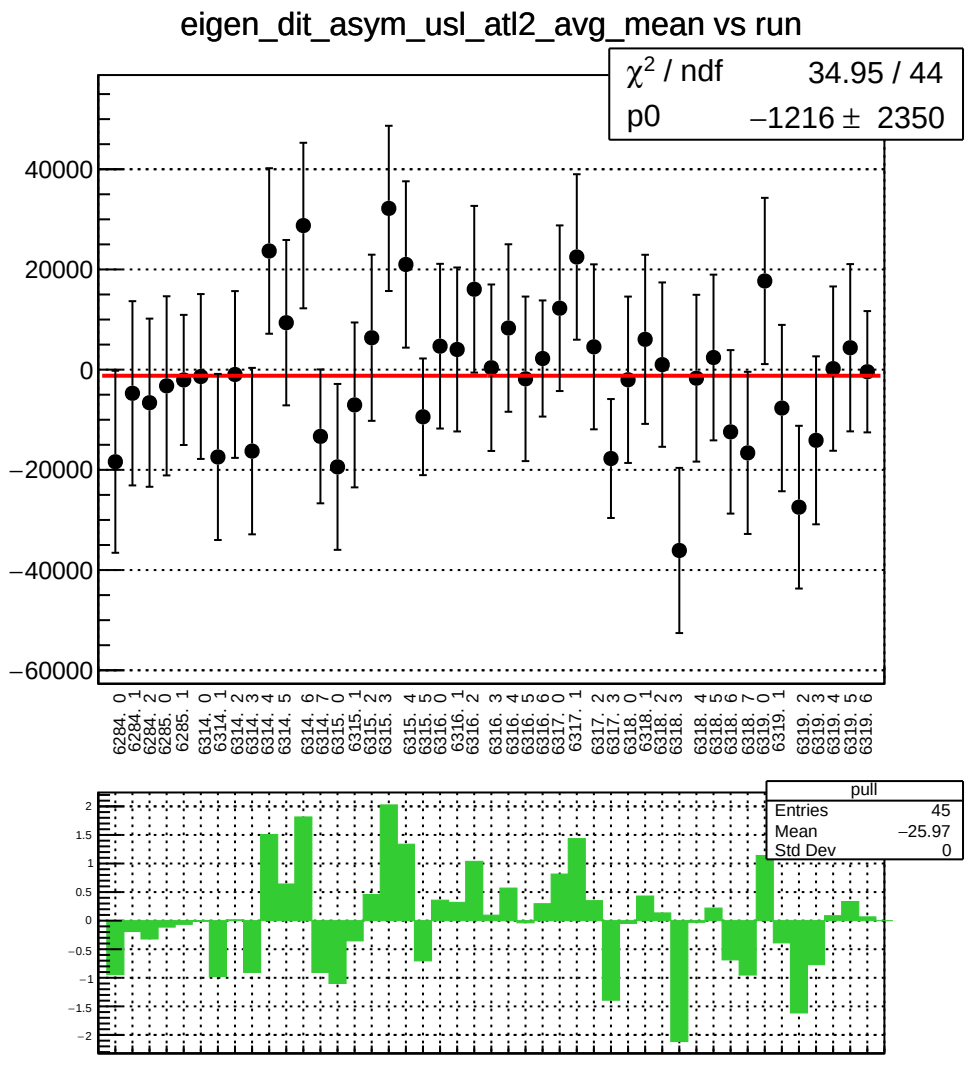
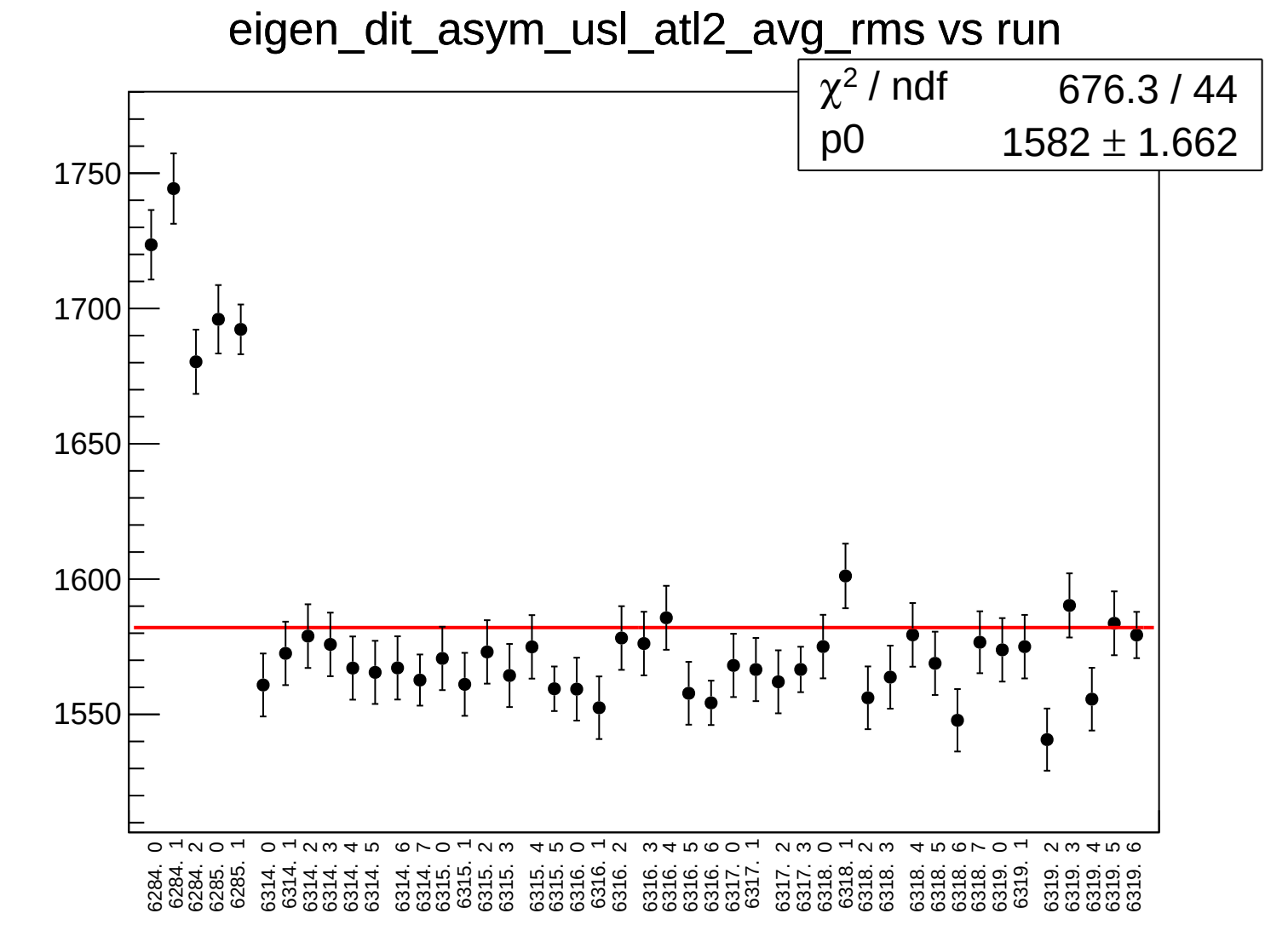
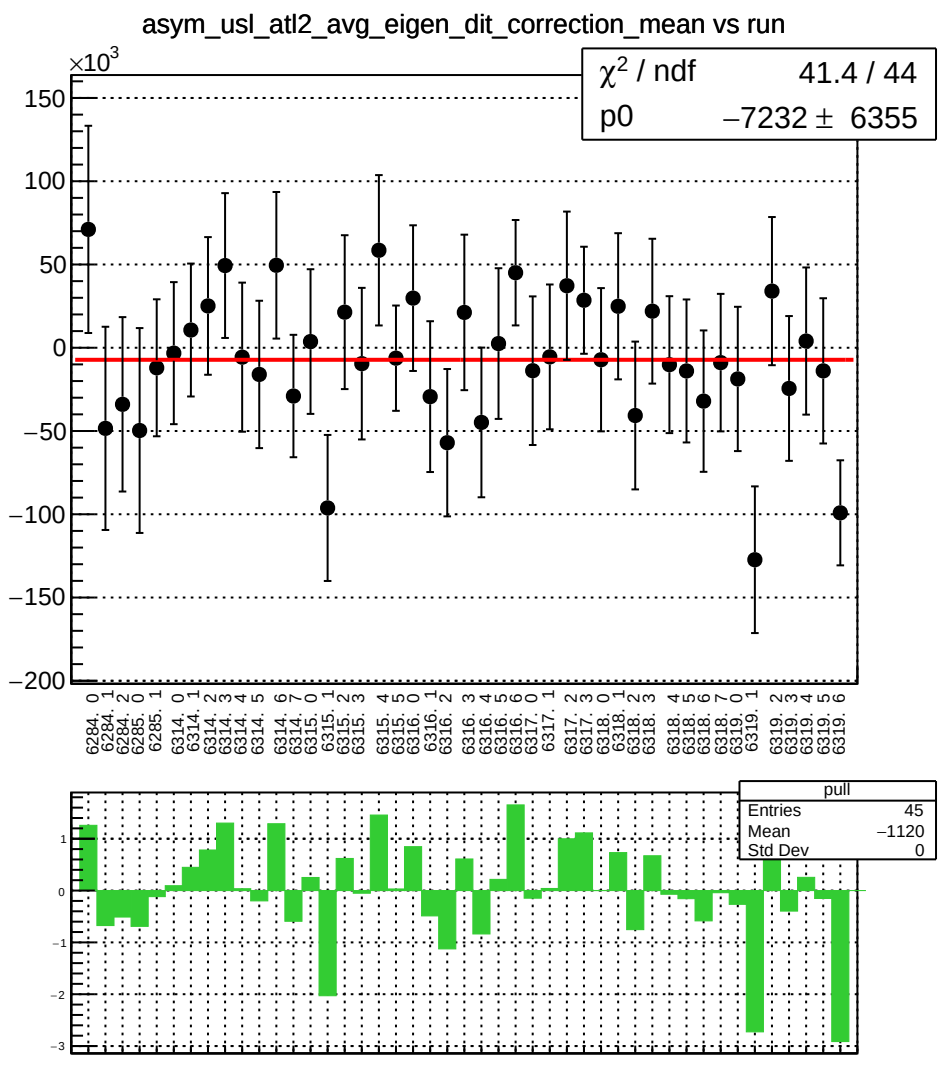
6319. 5
6319. 6

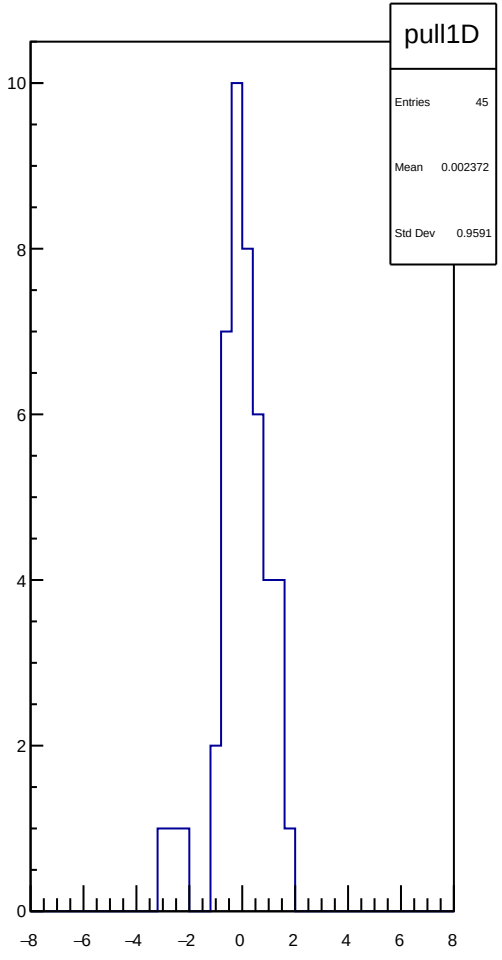

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.4 / 44
p0 −7232 ± 6355
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1120
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.002372
Std Dev 0.9591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

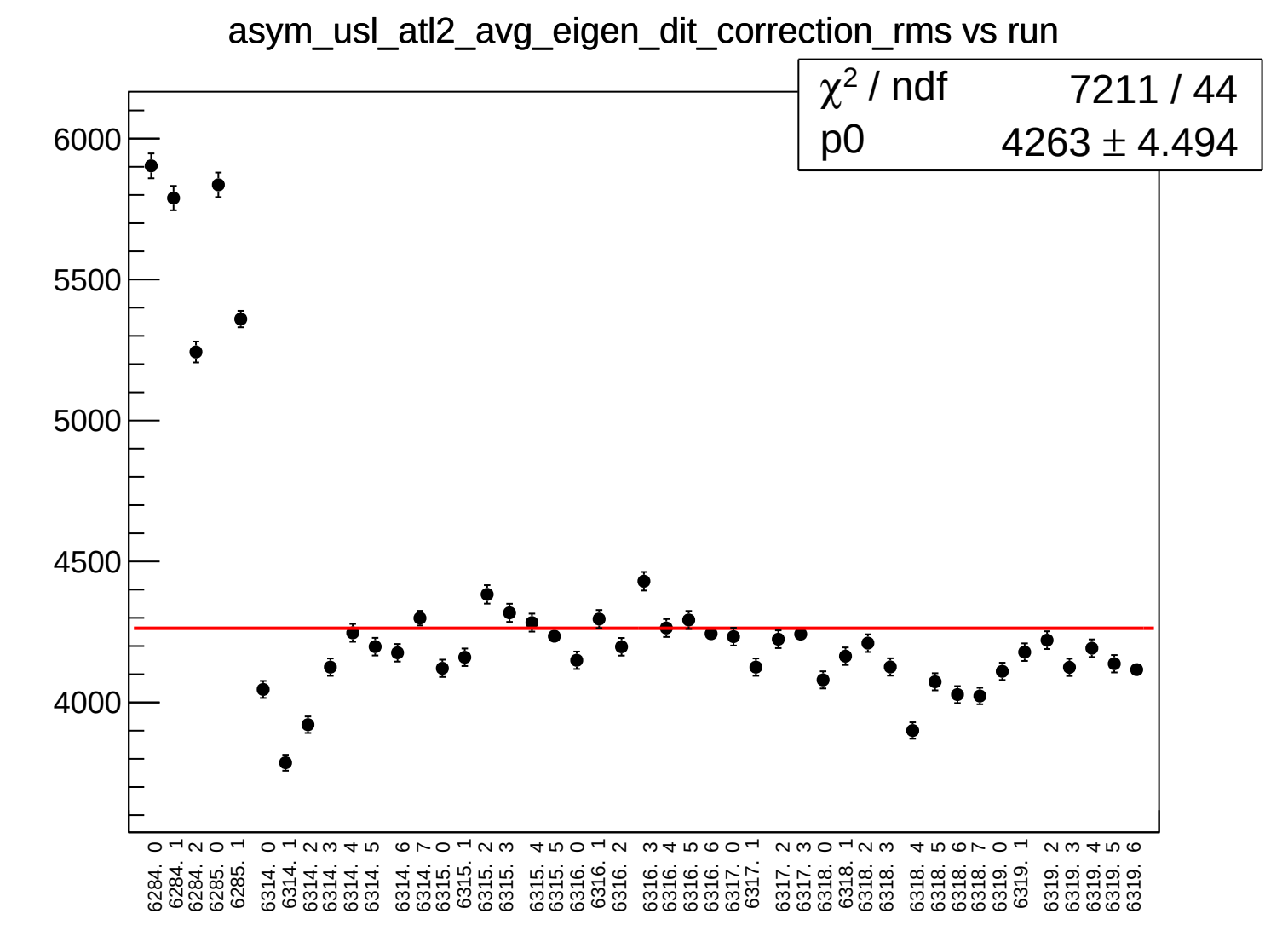

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 7212 / 44
p0 4263 ± 4.494
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

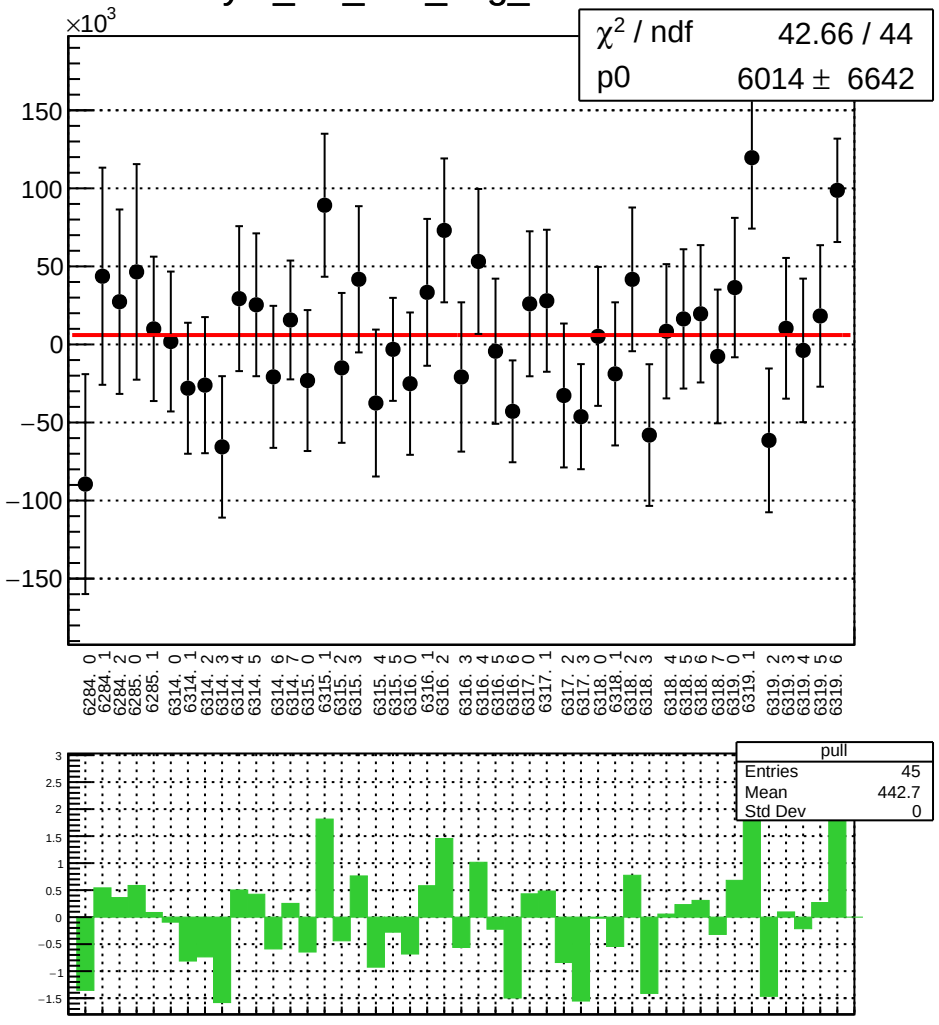

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 34.95 / 44
p0 −1216 ± 2350
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01933
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

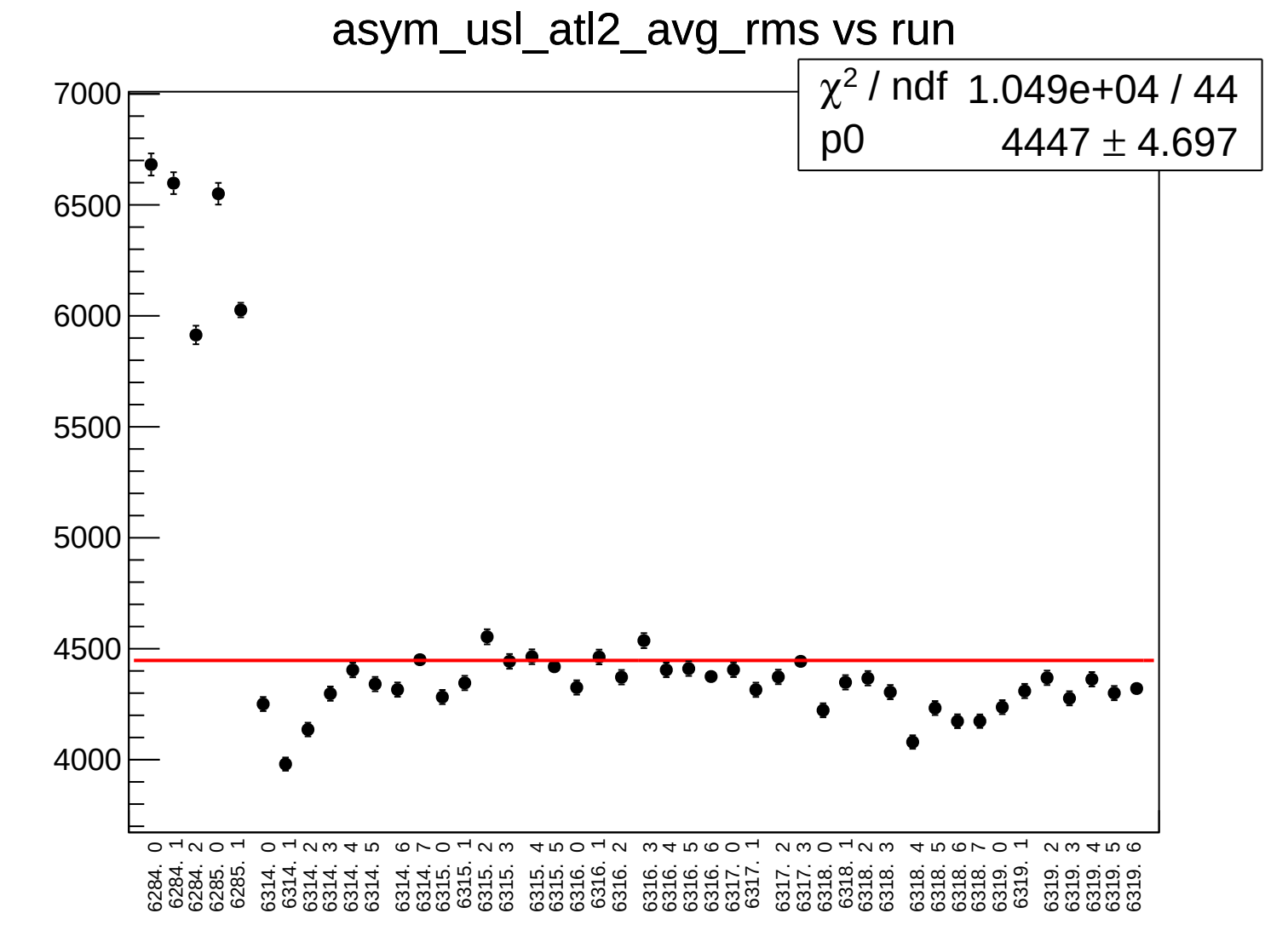

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 676.3 / 44
p0 1582 ± 1.662
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.4 / 44
p0 −7232 ± 6355
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1120
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002372
Std Dev 0.9591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7211 / 44
p0 4263 ± 4.494
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 42.66 / 44
p0 6014 ± 6642
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 442.7
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.005294
Std Dev 0.9736
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_rms vs run
χ² / ndf 1.049e+04 / 44
p0 4447 ± 4.697
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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6319. 2
6319. 3
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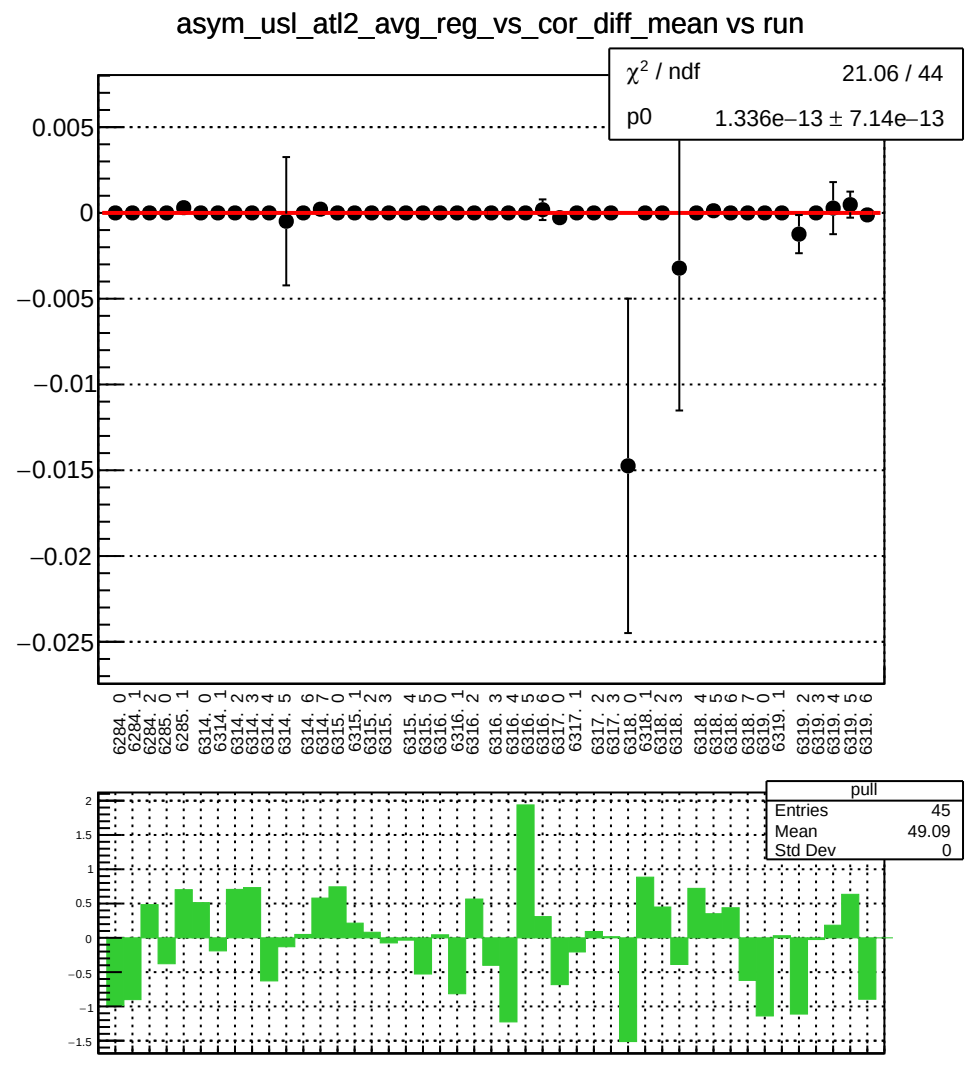
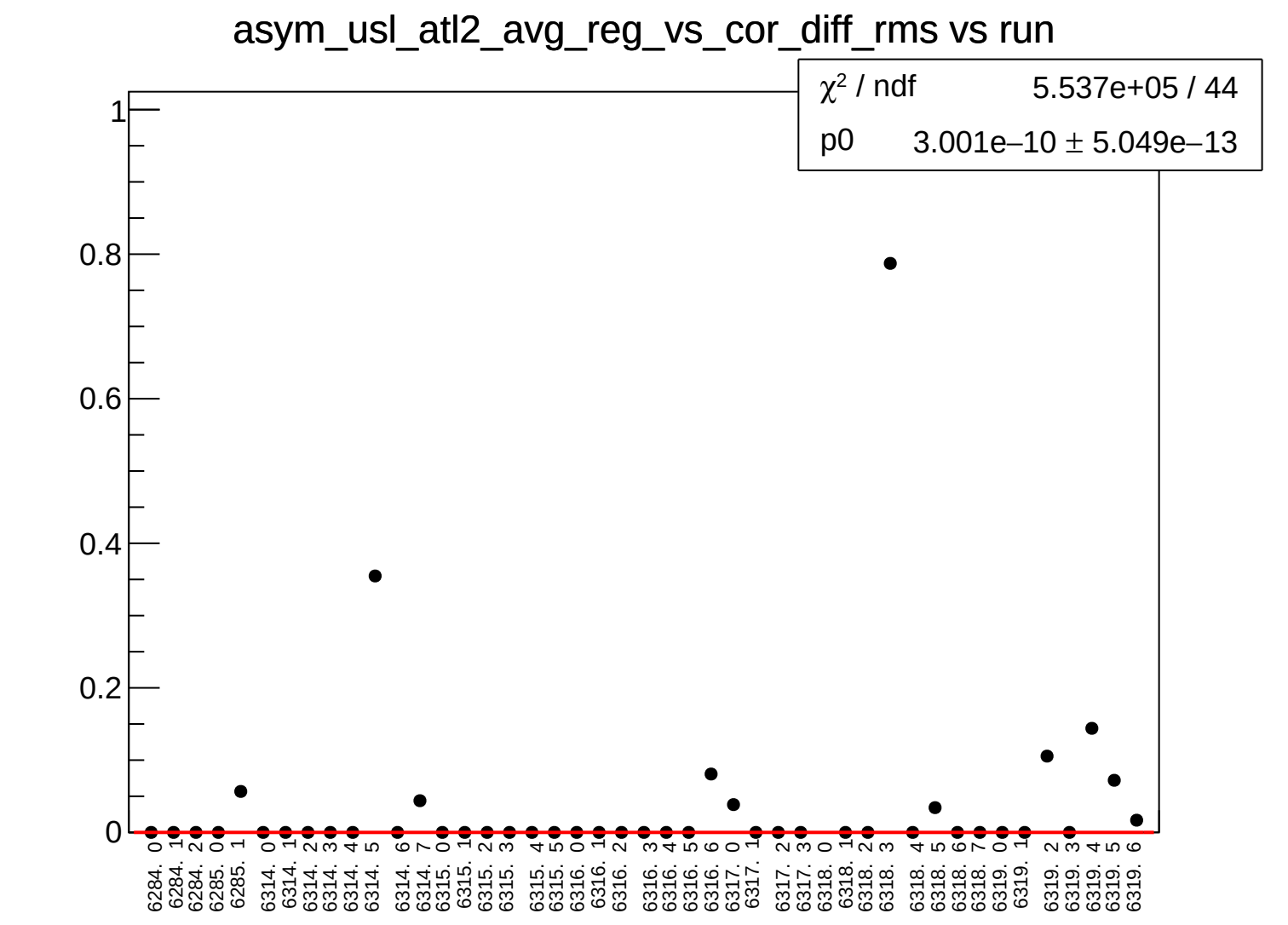
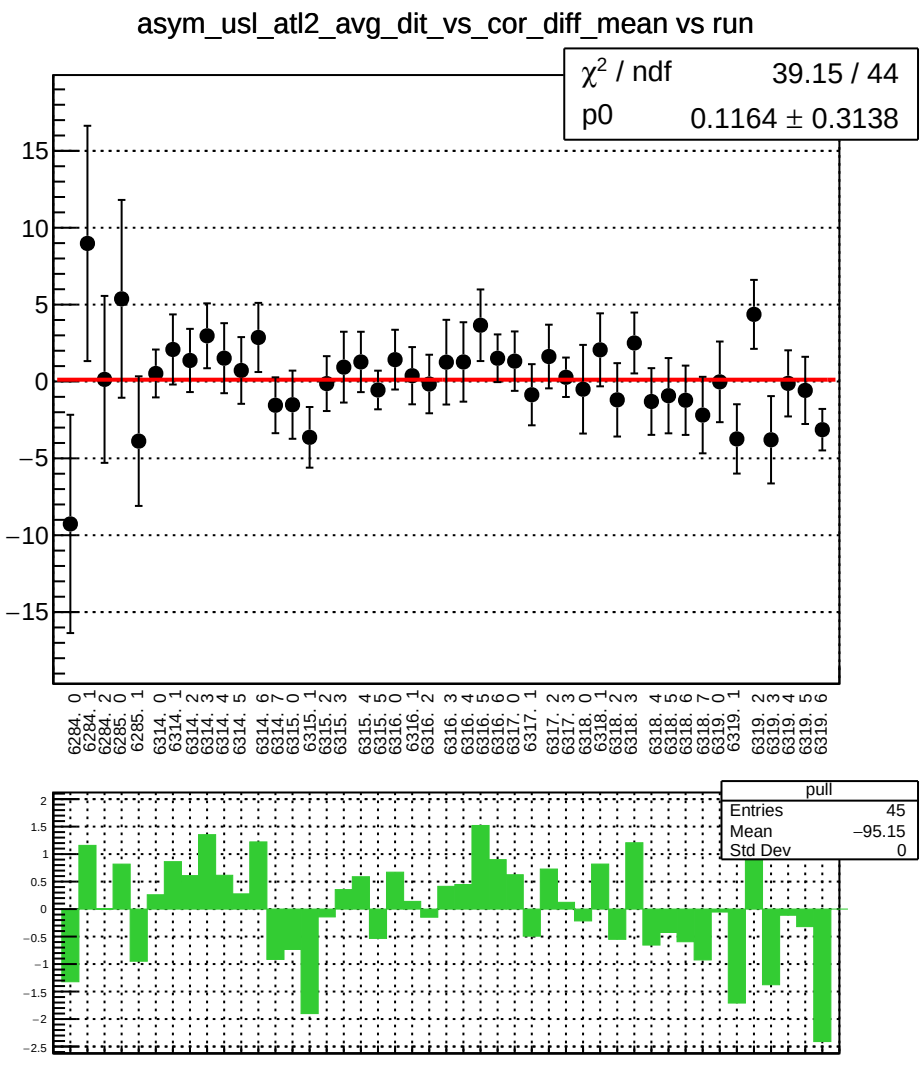
6319. 5
6319. 6


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.06 / 44
p0 1.336e−13 ± 7.14e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 49.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0311
Std Dev 0.6834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.537e+05 / 44
p0 3.001e−10 ± 5.049e−13
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.15 / 44
p0 0.1164 ± 0.3138
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 1
6316. 2
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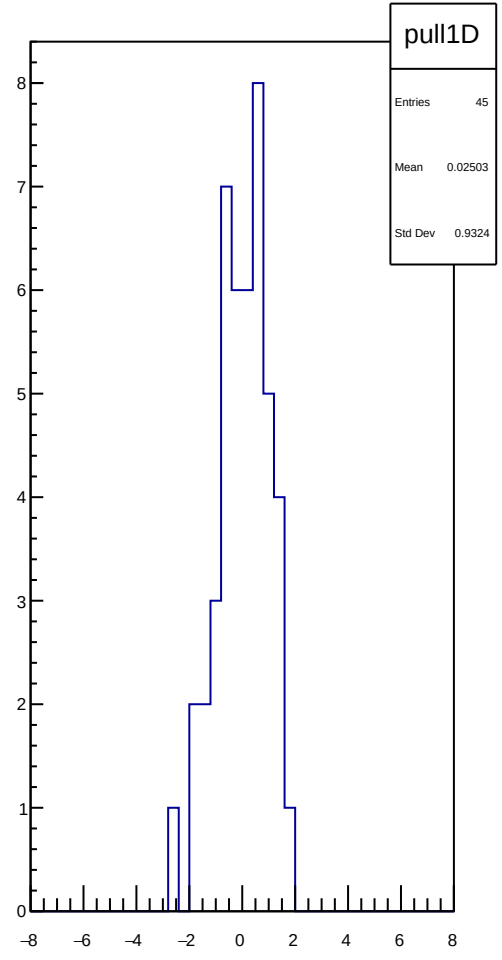
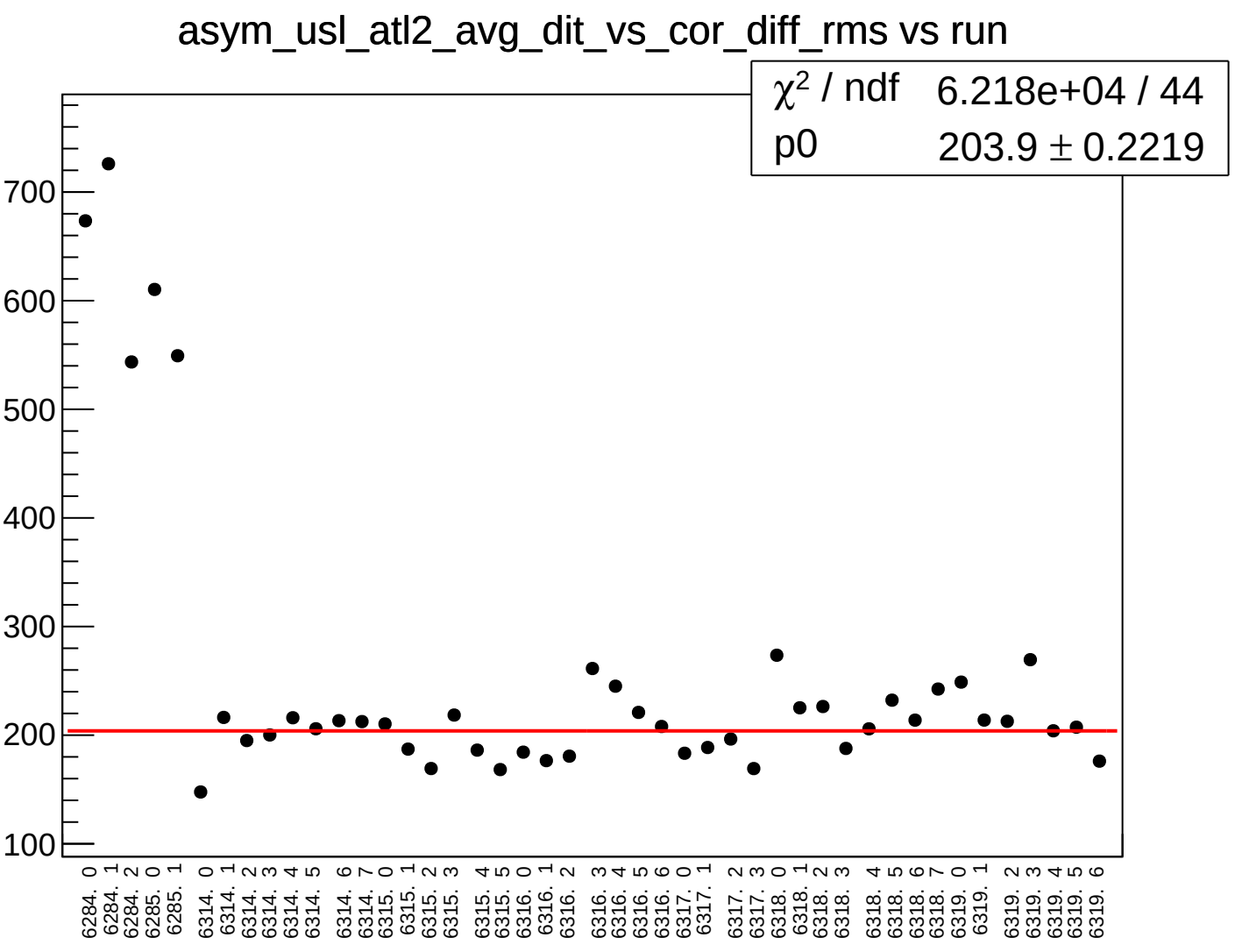
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −95.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02503
Std Dev 0.9324
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.218e+04 / 44
p0 203.9 ± 0.2219
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
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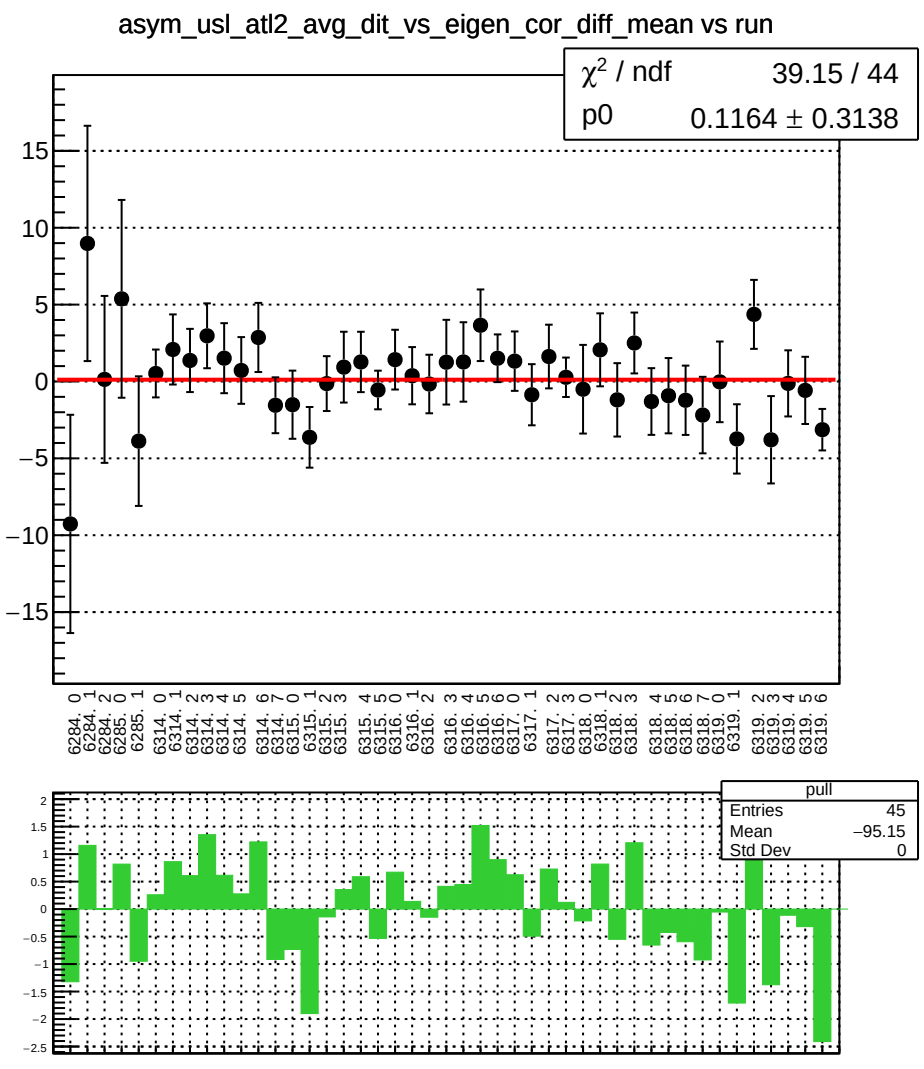
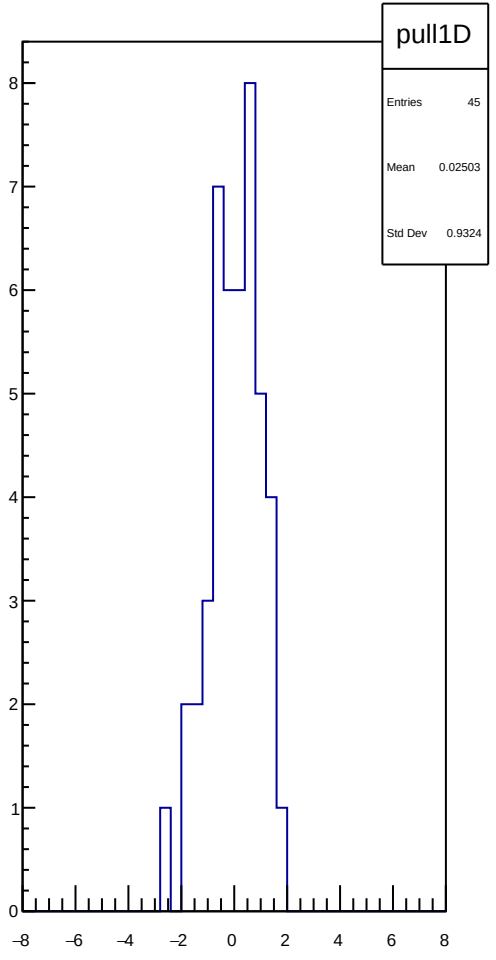
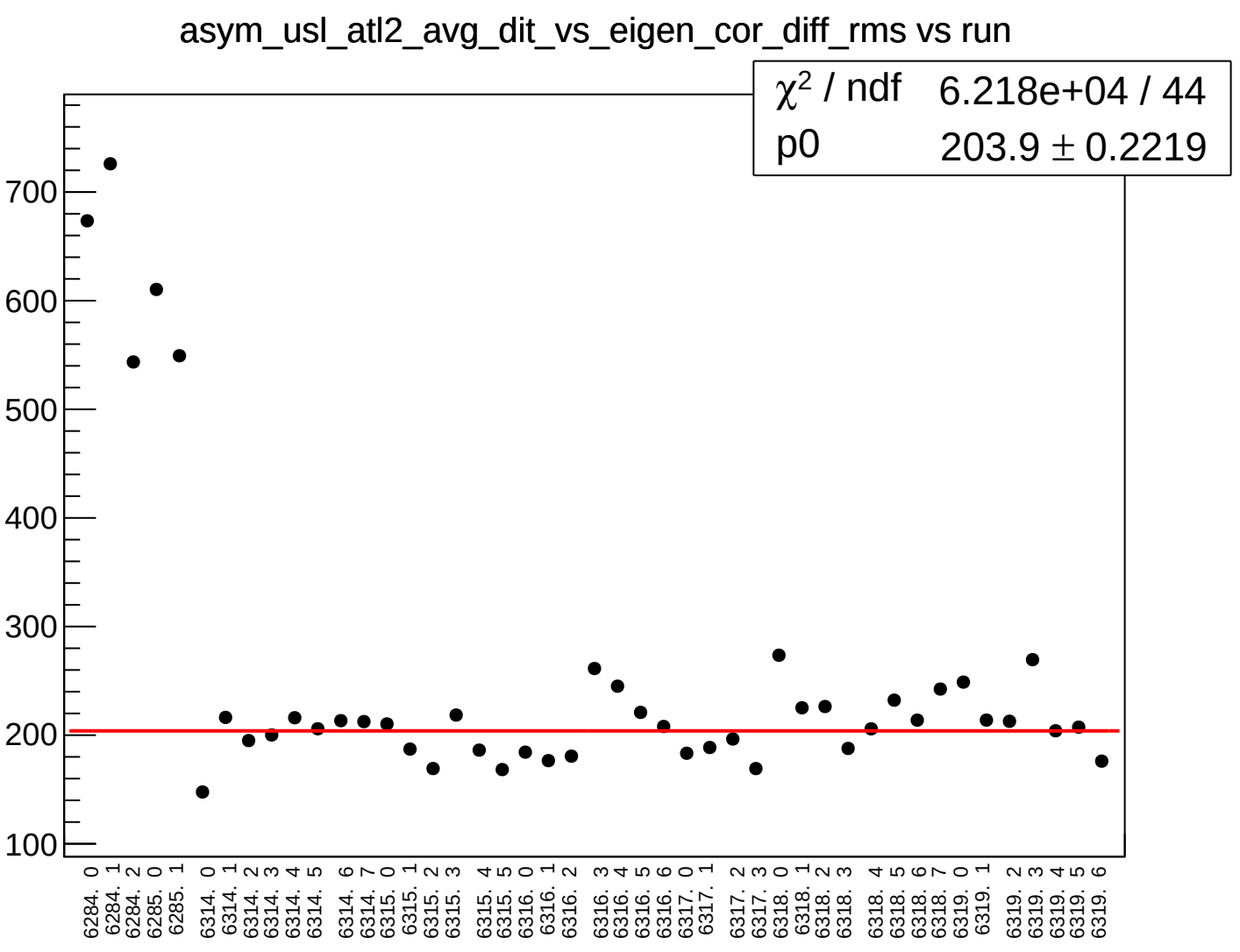
6319. 5
6319. 6


asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.15 / 44
p0 0.1164 ± 0.3138
pull
Entries 45
Mean −95.15
Std Dev 0


pull1D
Entries 45
Mean 0.02503
Std Dev 0.9324


asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.218e+04 / 44
p0 203.9 ± 0.2219
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6318. 6
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6319. 0
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6319. 2
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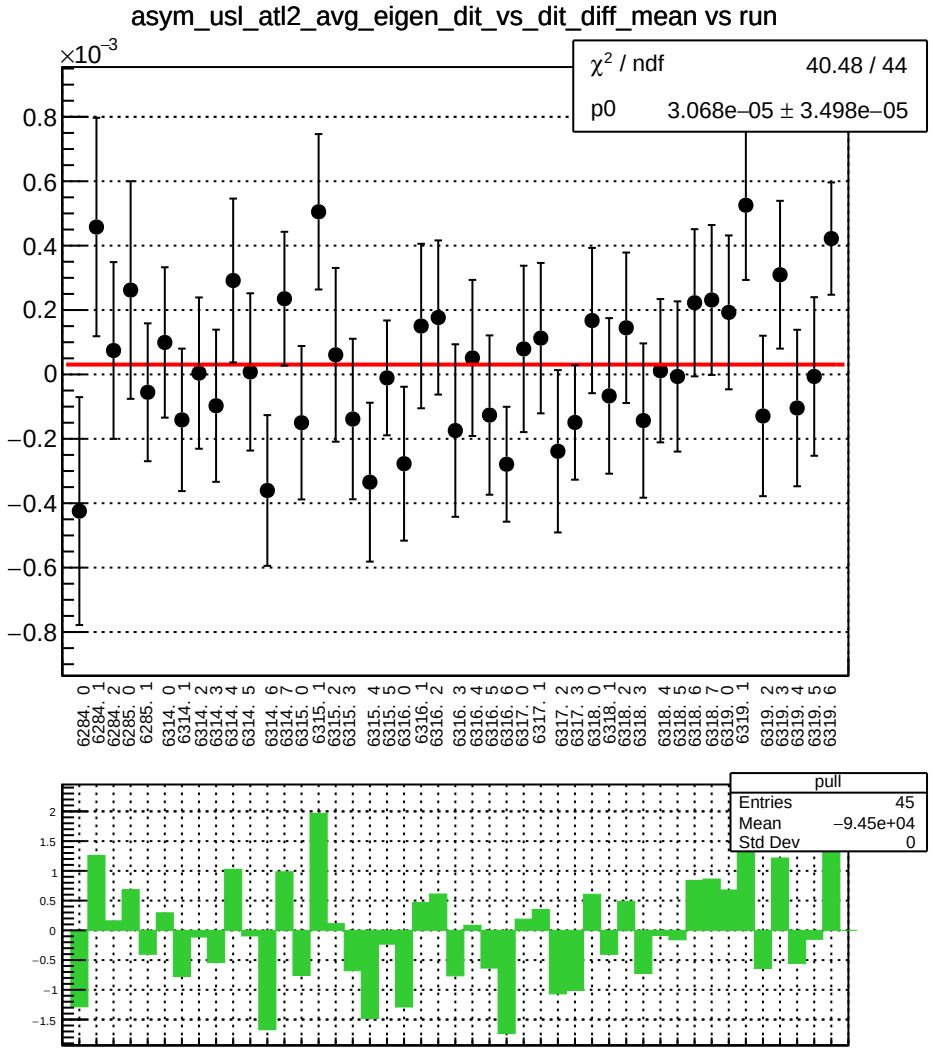
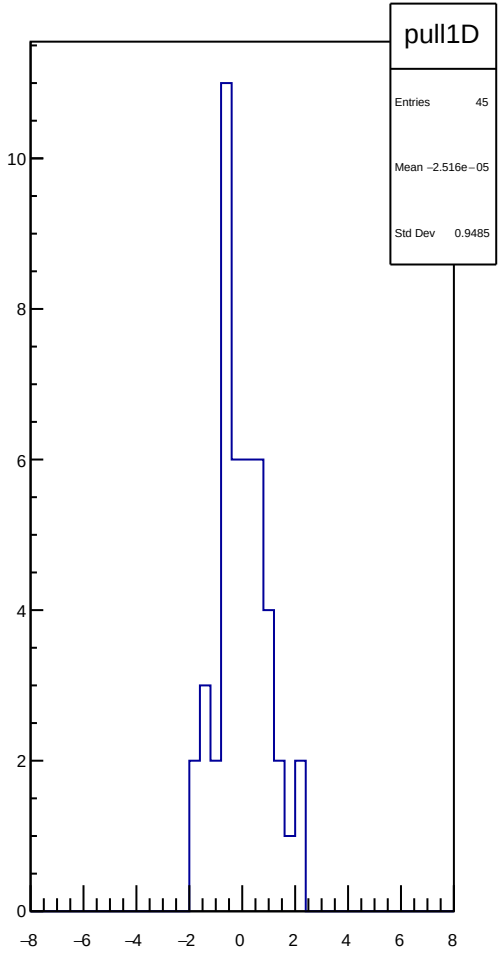
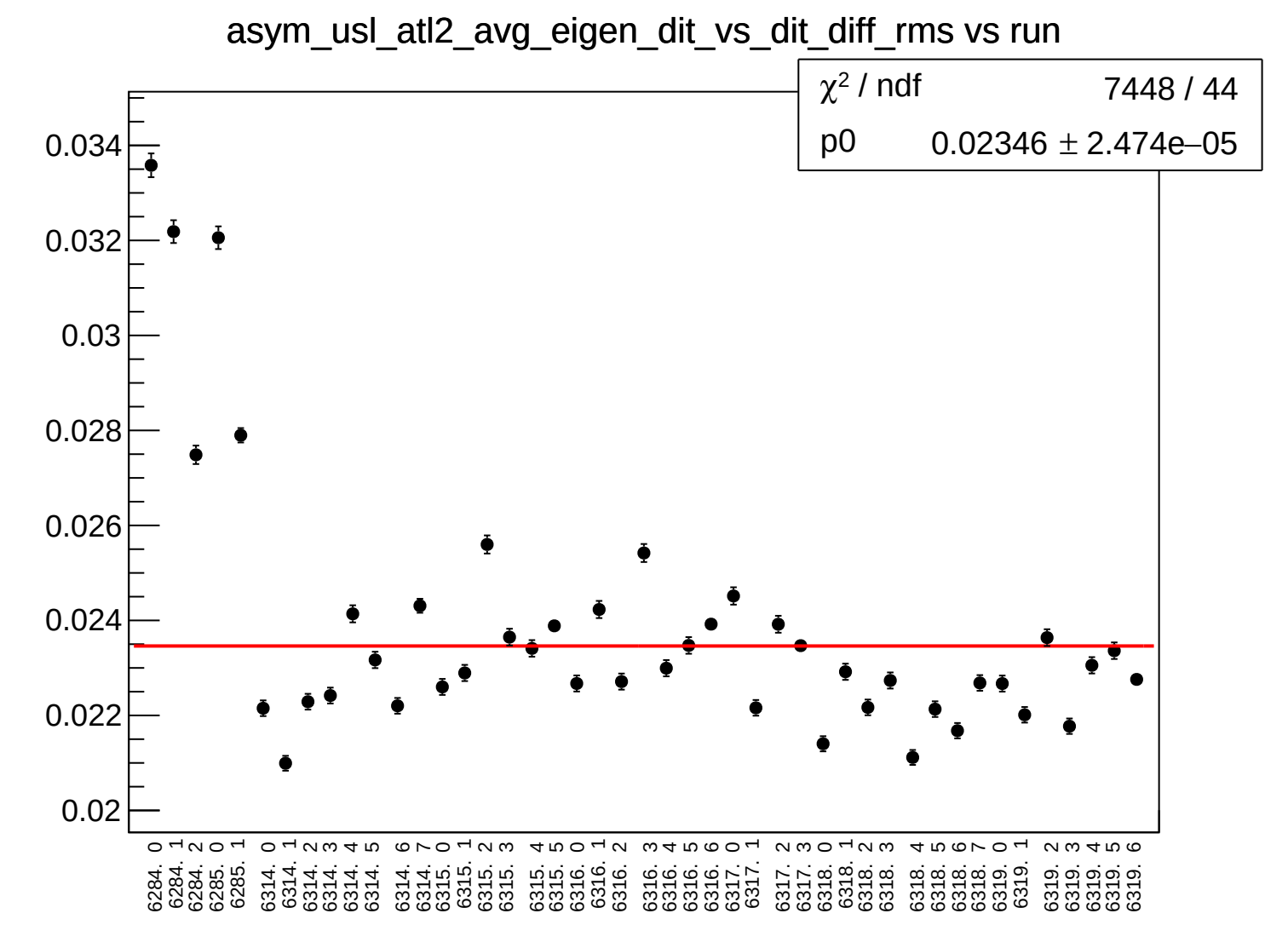
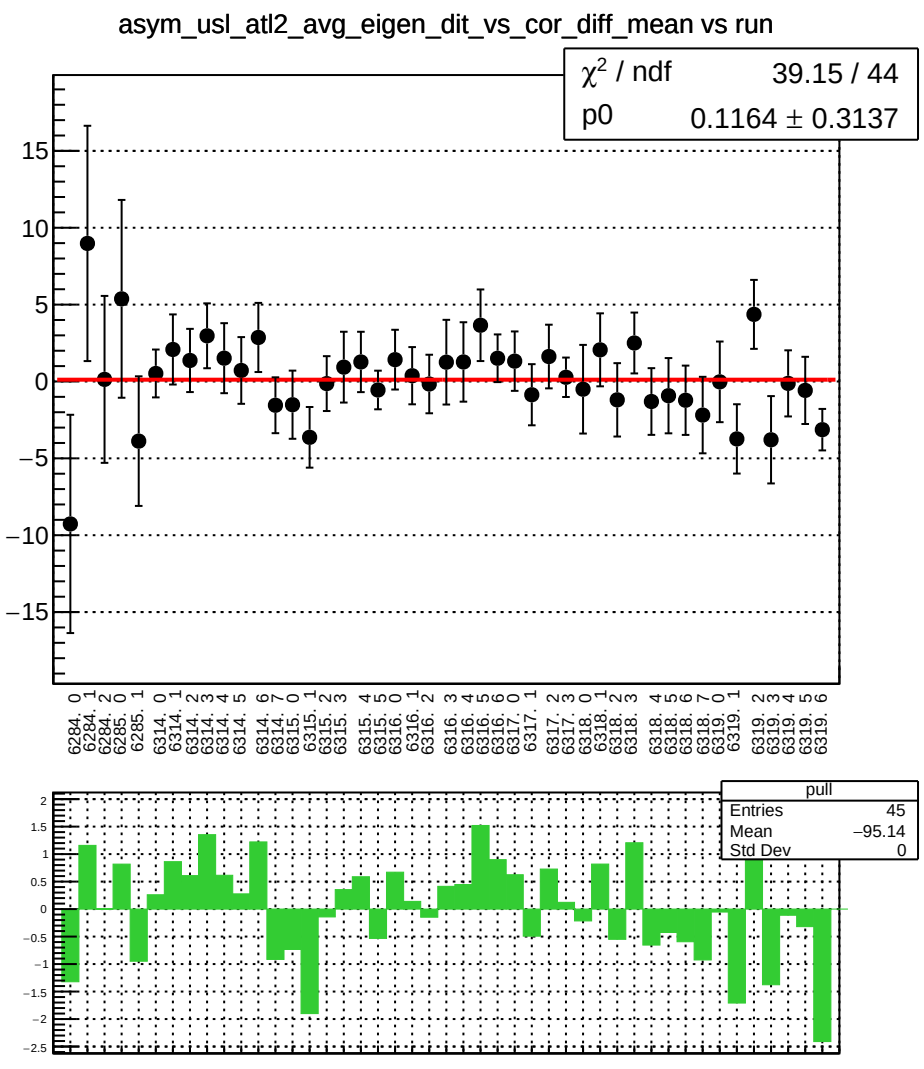
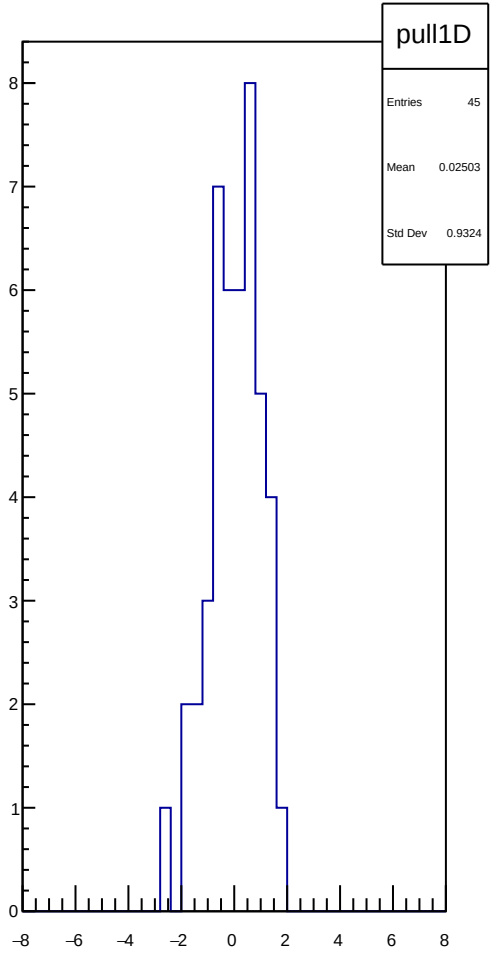
6319. 5
6319. 6

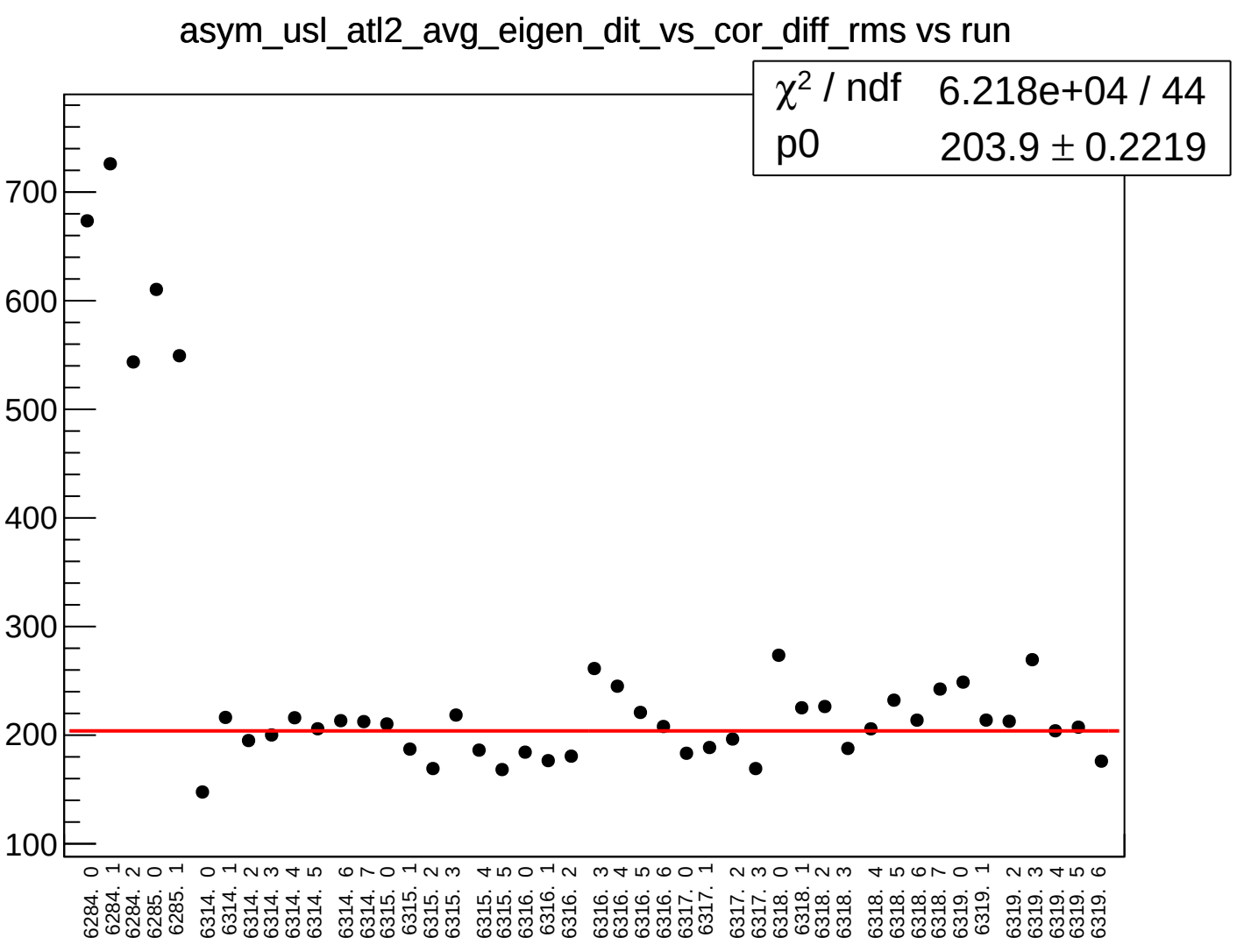

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.48 / 44
p0 3.068e−05 ± 3.498e−05
pull
Entries 45
Mean −9.45e+04
Std Dev 0

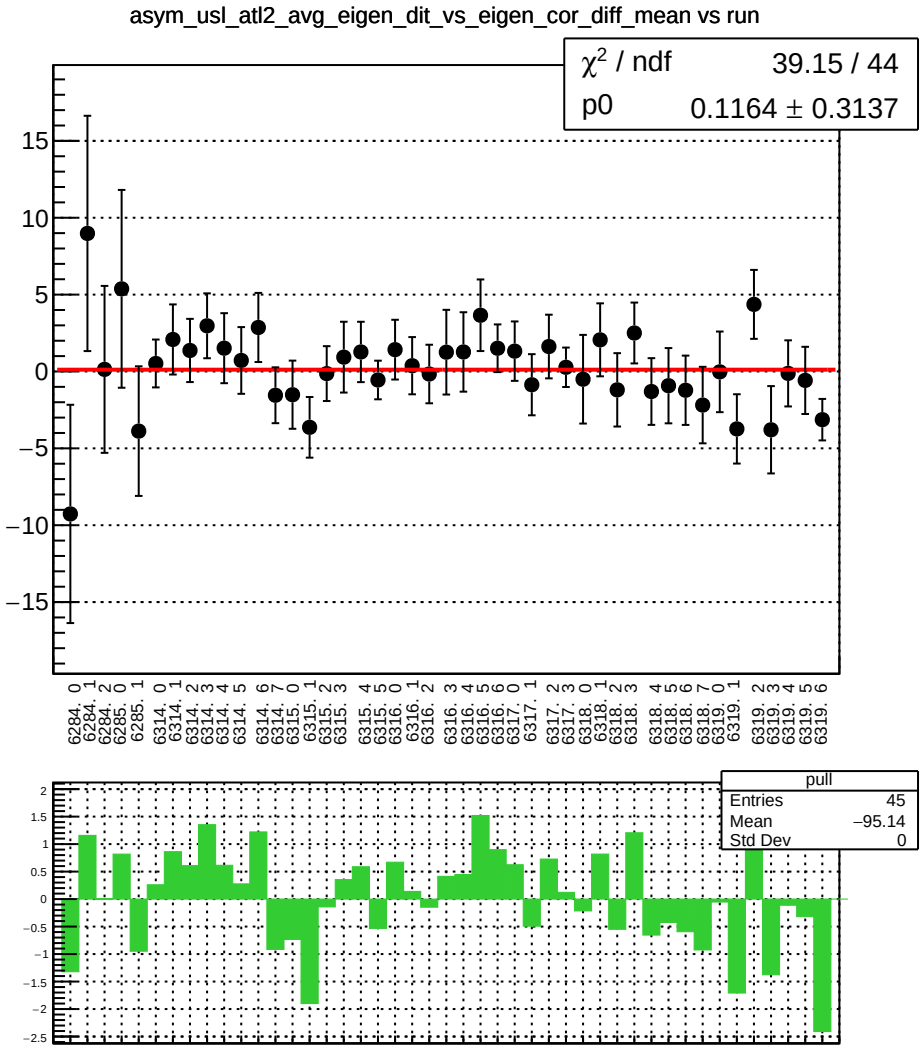

pull1D
Entries 45
Mean −2.516e−05
Std Dev 0.9485

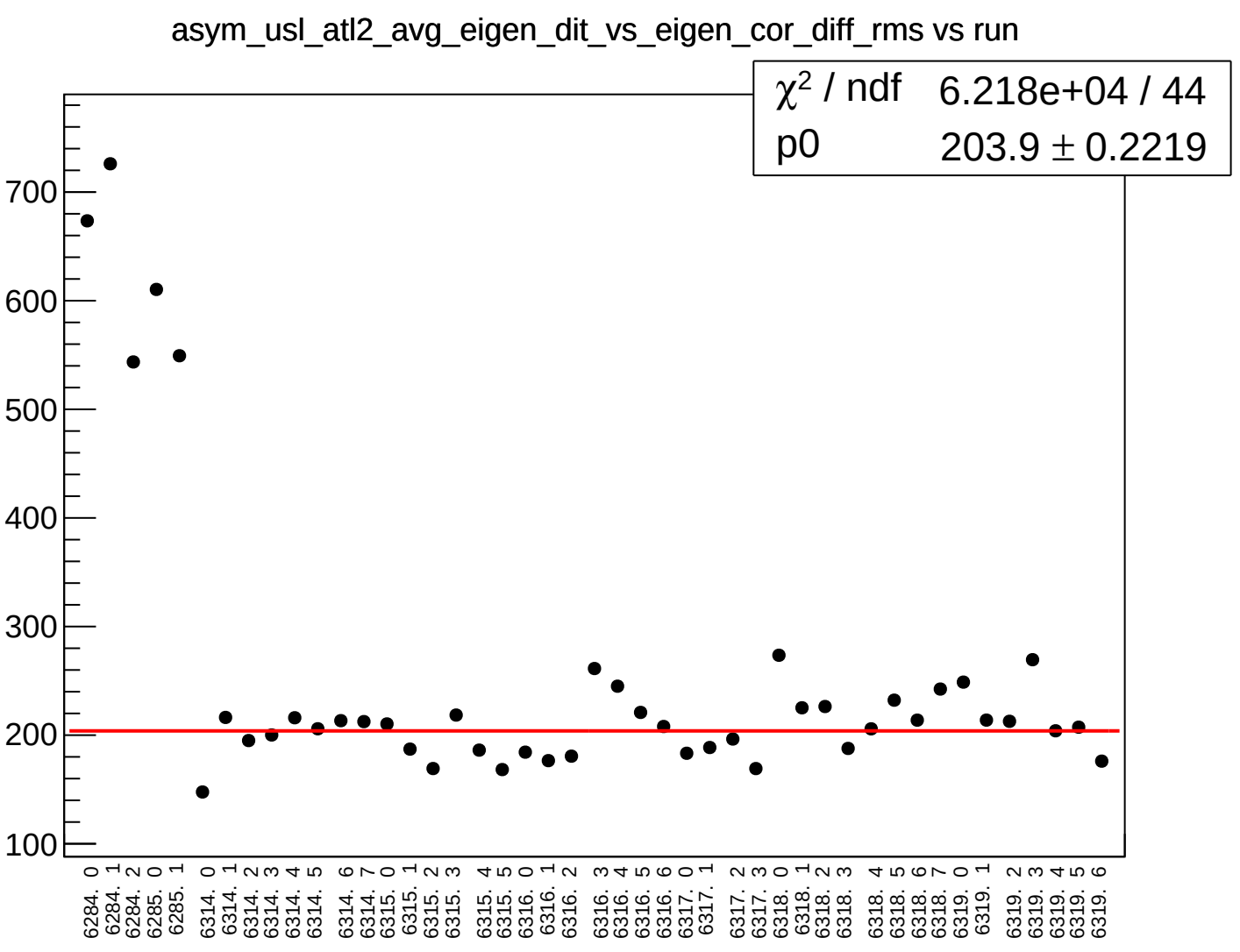

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7448 / 44
p0 0.02346 ± 2.474e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

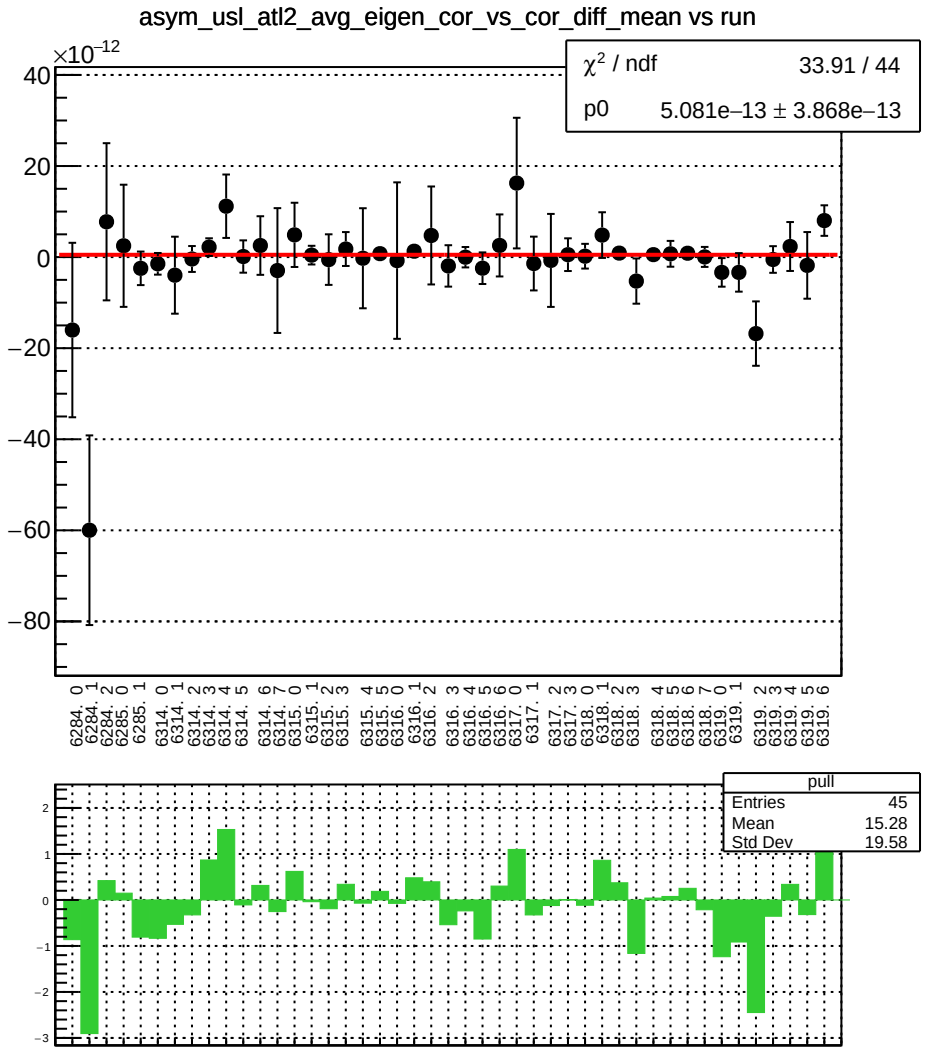

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.15 / 44
p0 0.1164 ± 0.3137
pull
Entries 45
Mean −95.14
Std Dev 0

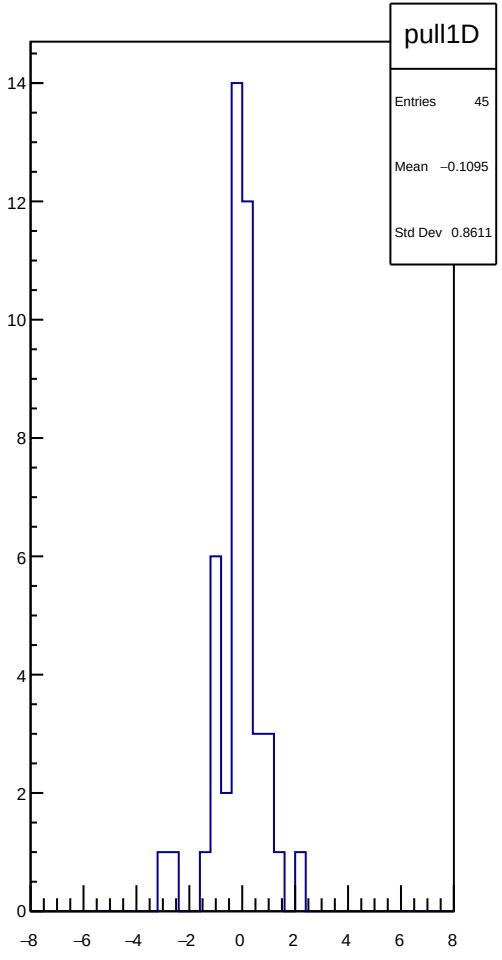

pull1D
Entries 45
Mean 0.02503
Std Dev 0.9324

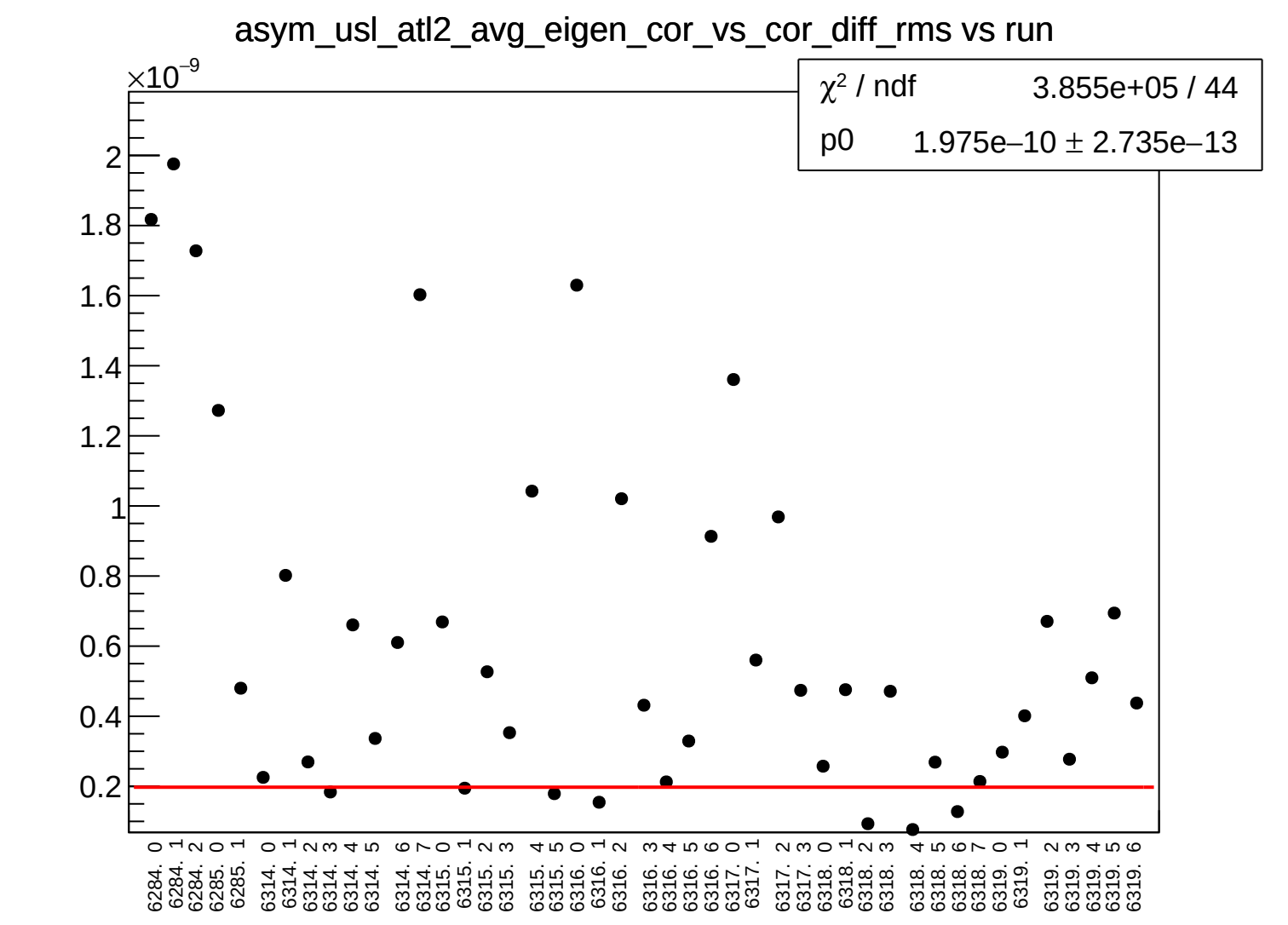

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.218e+04 / 44
p0 203.9 ± 0.2219
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

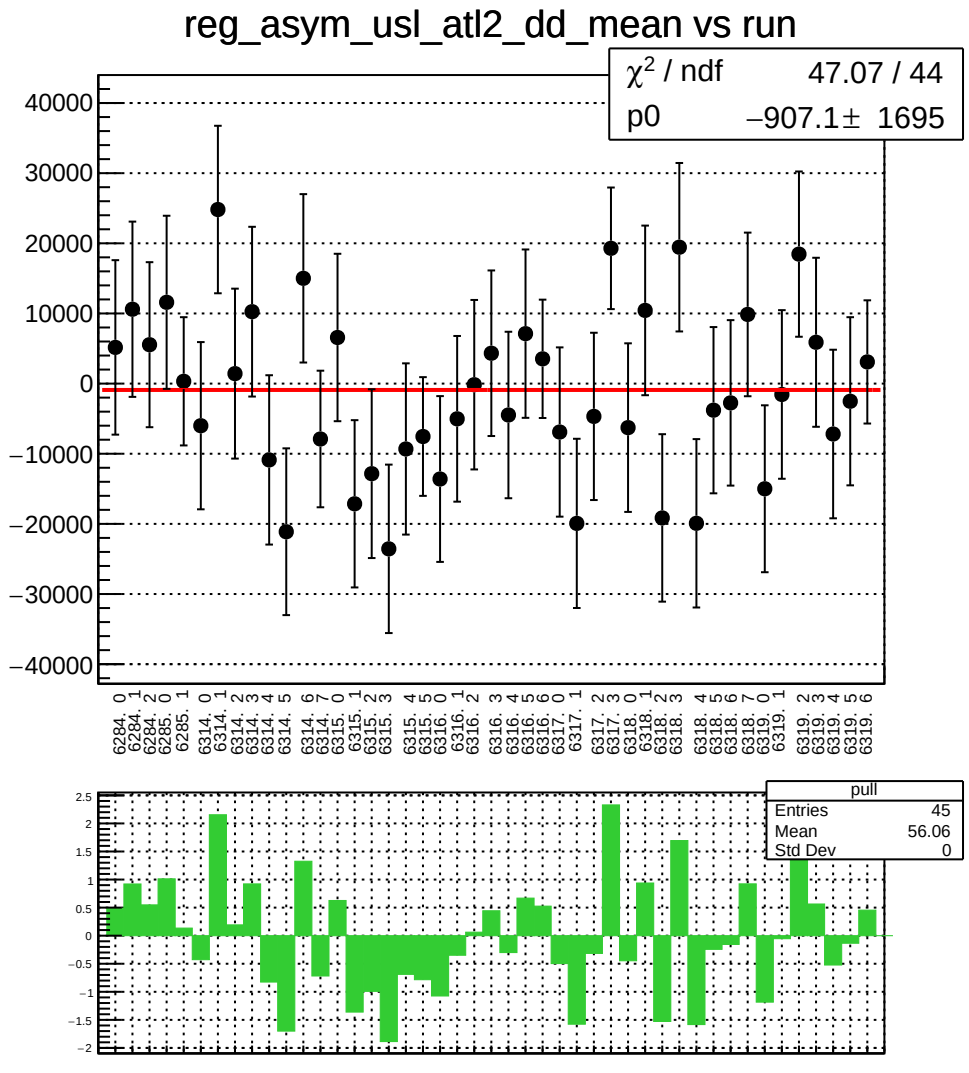

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.15 / 44
p0 0.1164 ± 0.3137
pull
Entries 45
Mean −95.14
Std Dev 0
pull1D
Entries 45
Mean 0.02503
Std Dev 0.9324

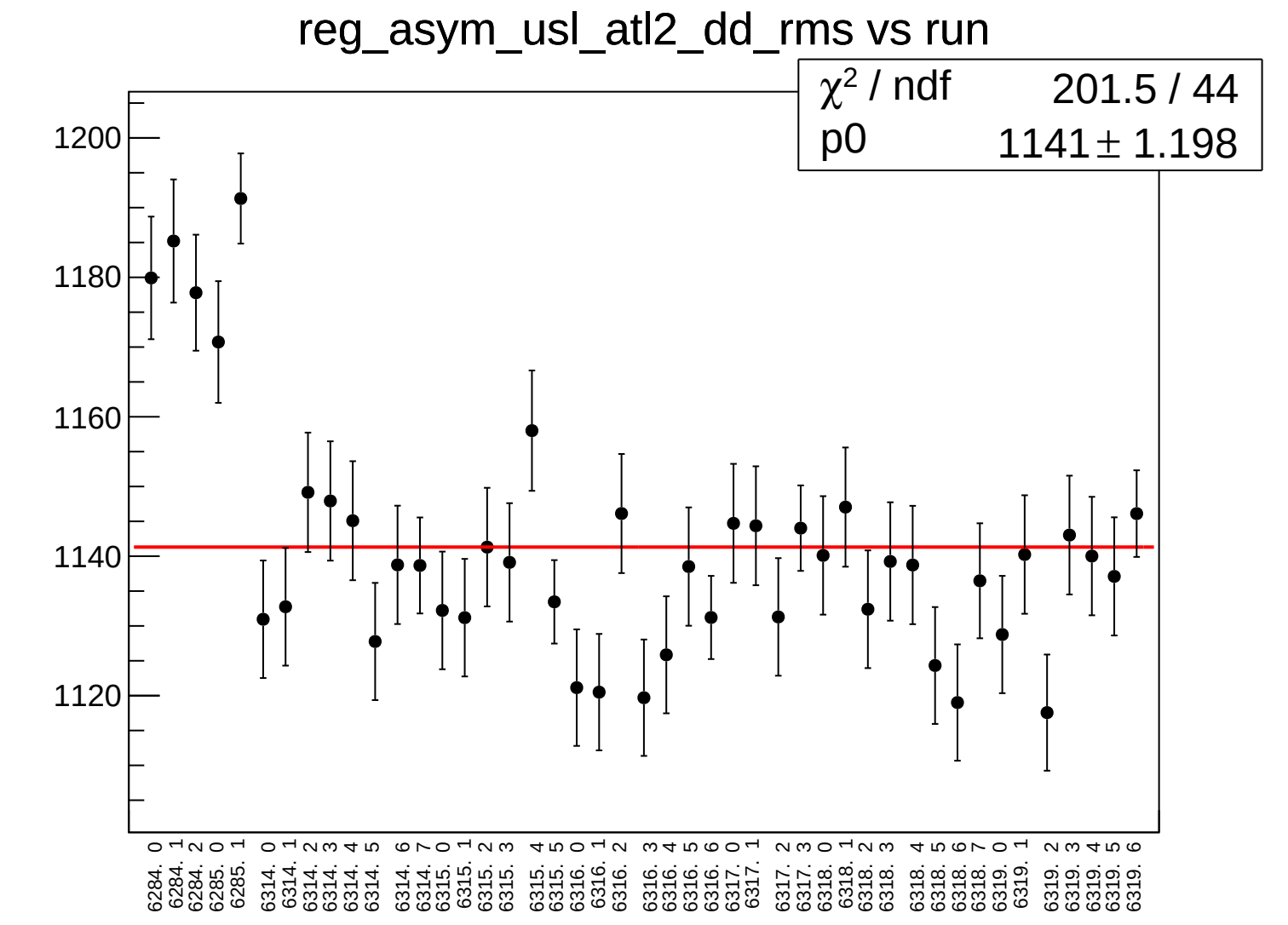

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.218e+04 / 44
p0 203.9 ± 0.2219
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

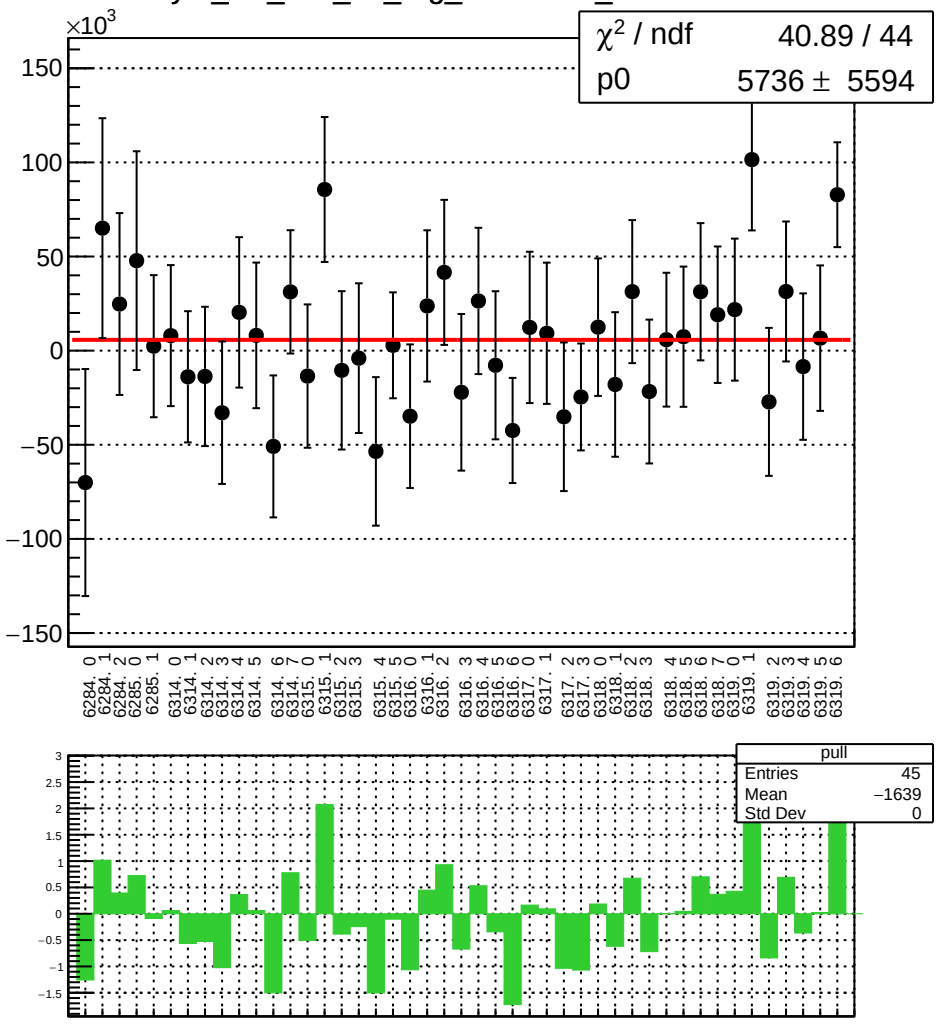

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.91 / 44
p0 5.081e−13 ± 3.868e−13
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.28
Std Dev 19.58
2
1
0
−1
−2
−3

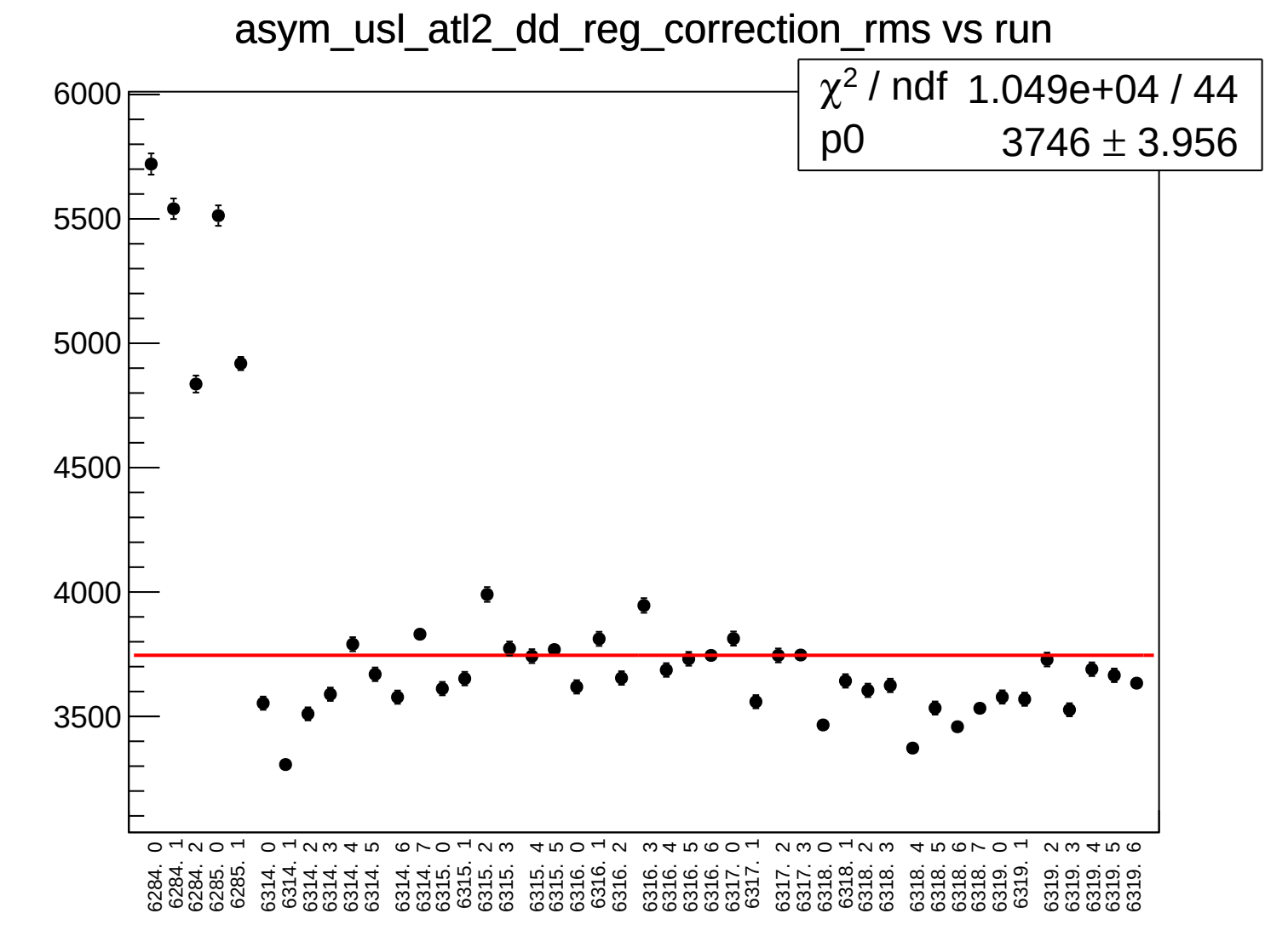

pull1D
Entries 45
Mean −0.1095
Std Dev 0.8611
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

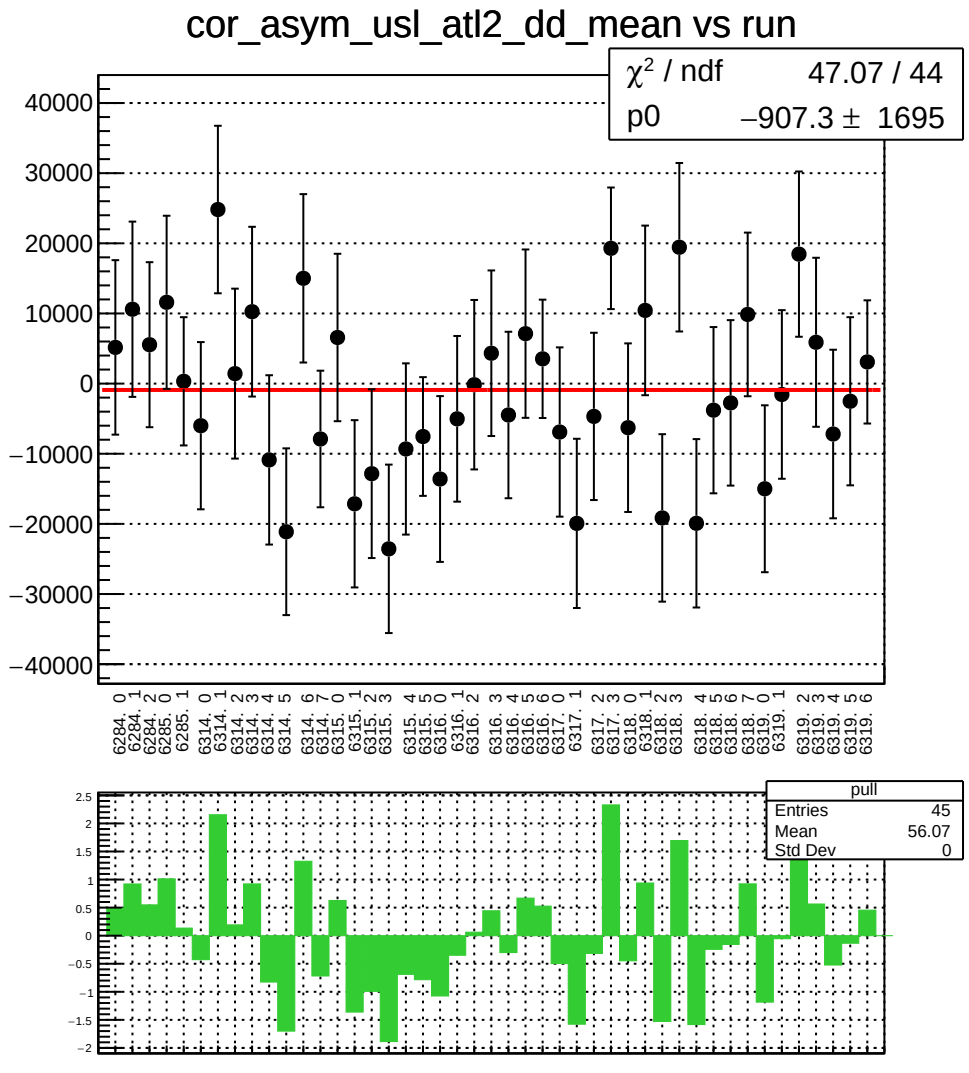

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.855e+05 / 44
p0 1.975e−10 ± 2.735e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

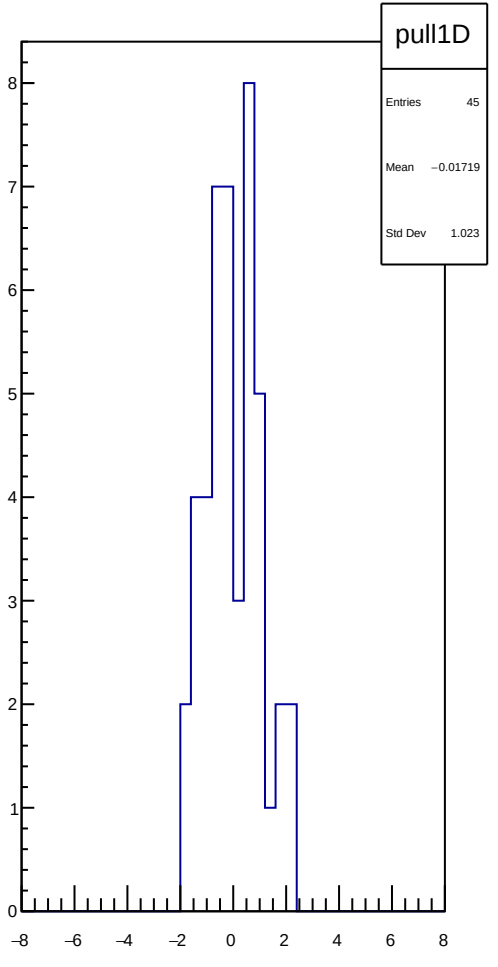

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 47.07 / 44
p0 −907.1± 1695
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 56.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01719
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

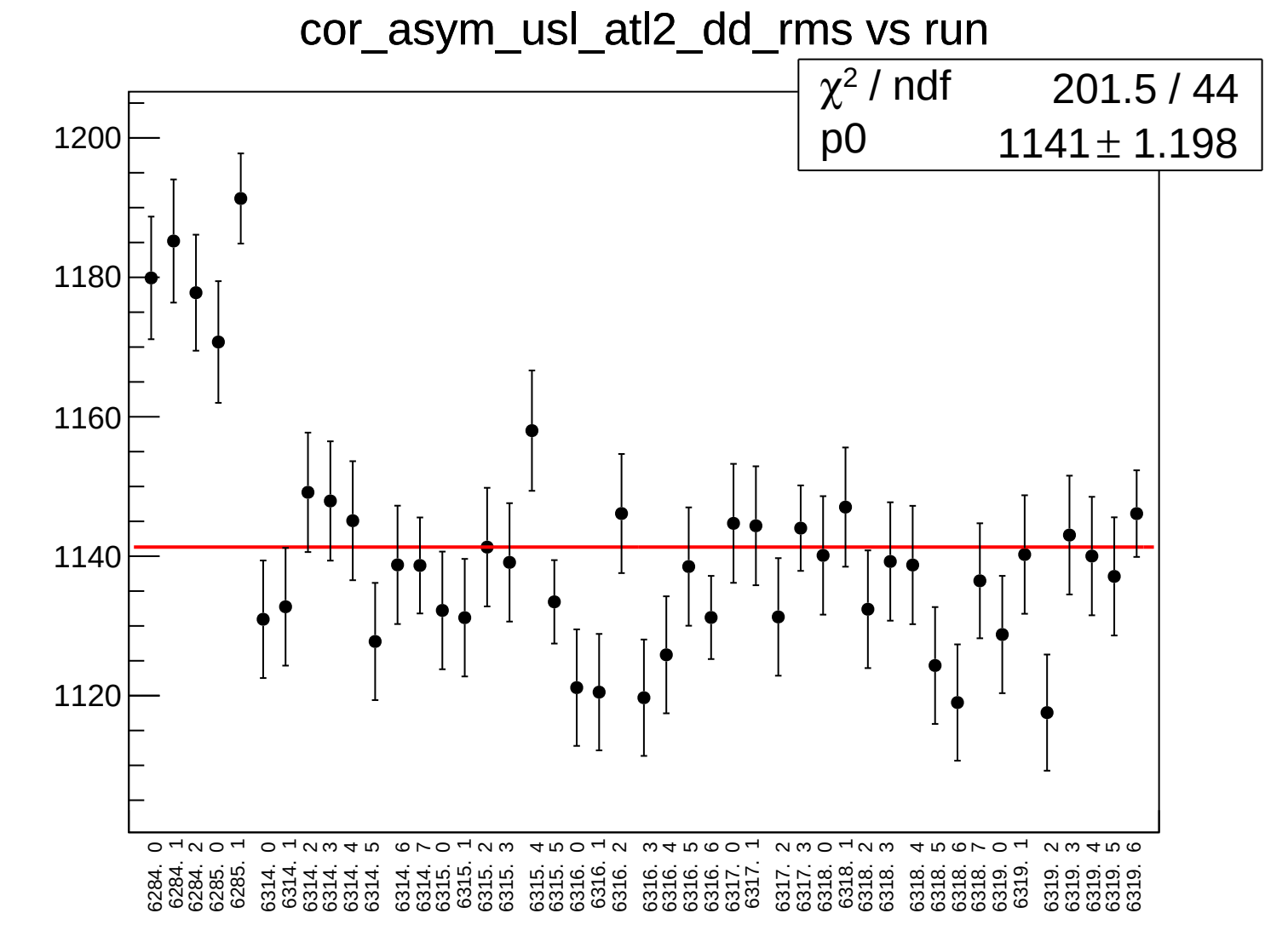

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 201.5 / 44
p0 1141 ± 1.198
1200
1180
1160
1140
1120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.89 / 44
p0 5736 ± 5594
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1639
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001553
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.049e+04 / 44
p0 3746 ± 3.956
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 47.07 / 44
p0 −907.3 ± 1695
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 56.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01719
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 201.5 / 44
p0 1141 ± 1.198
1200
1180
1160
1140
1120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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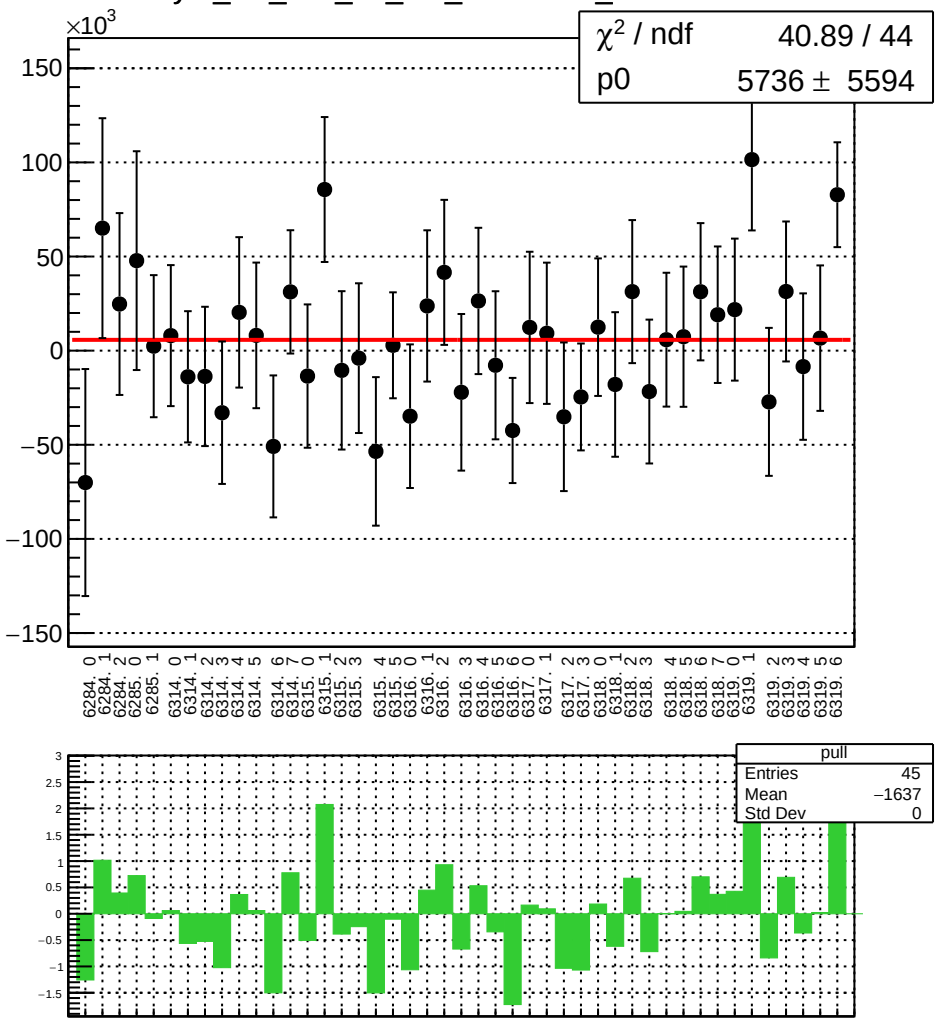
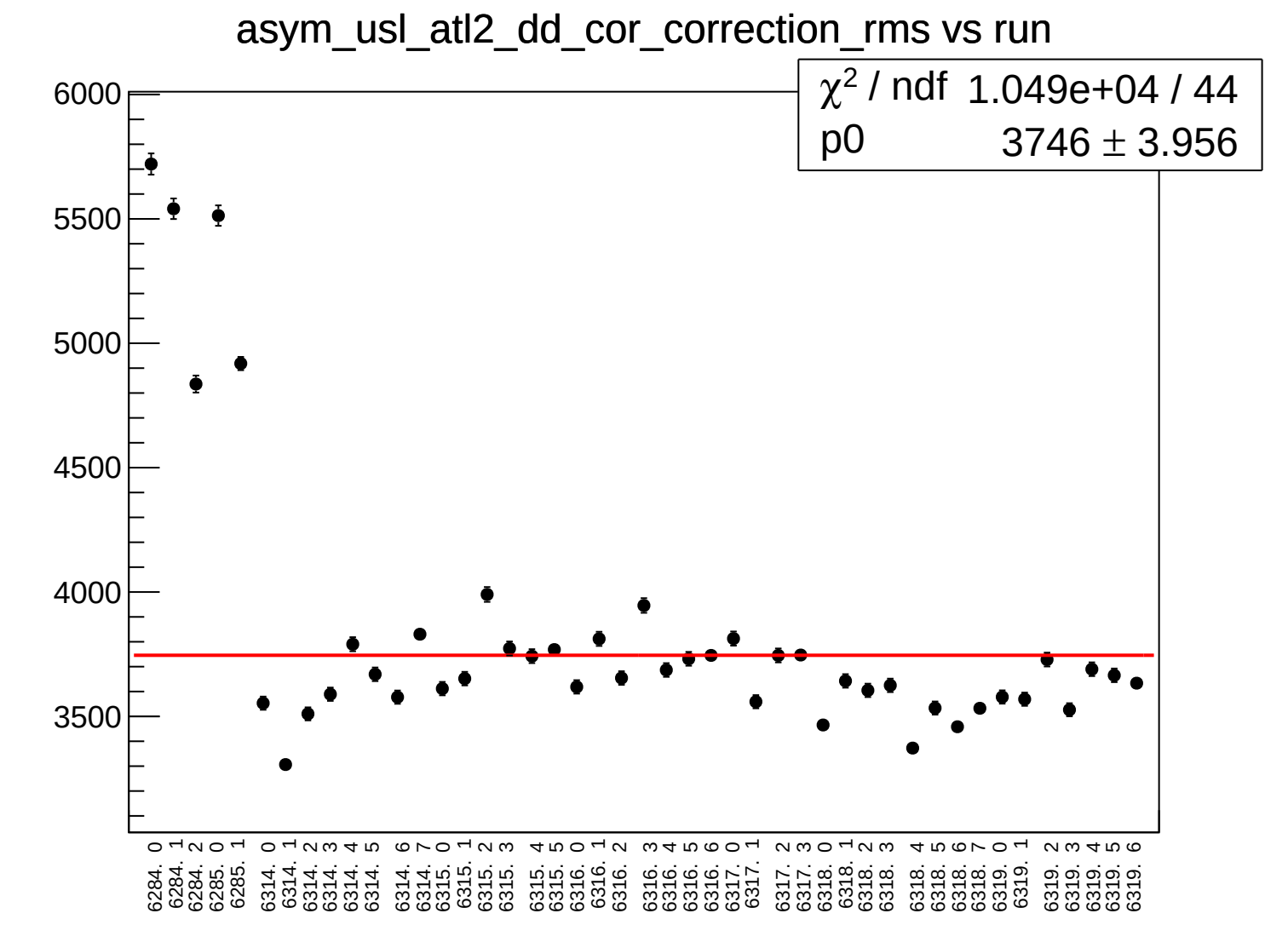
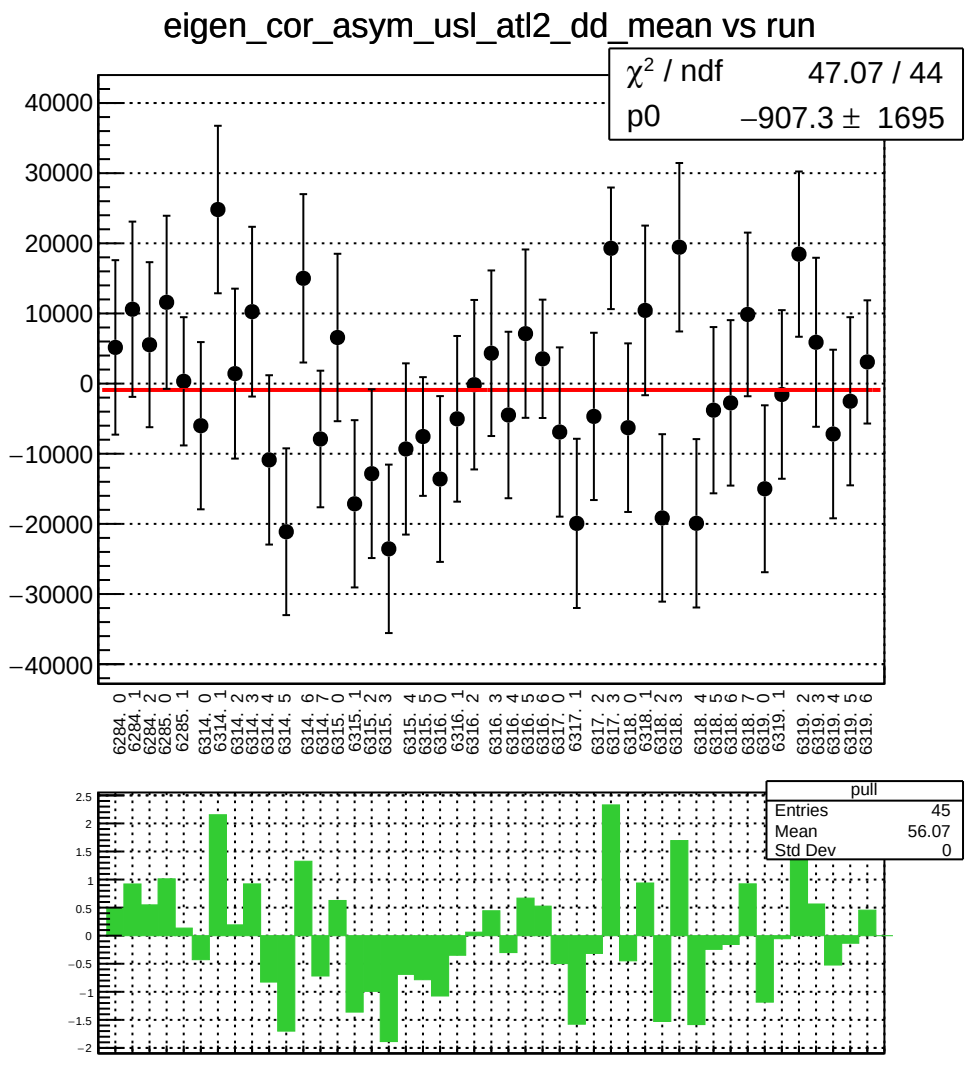
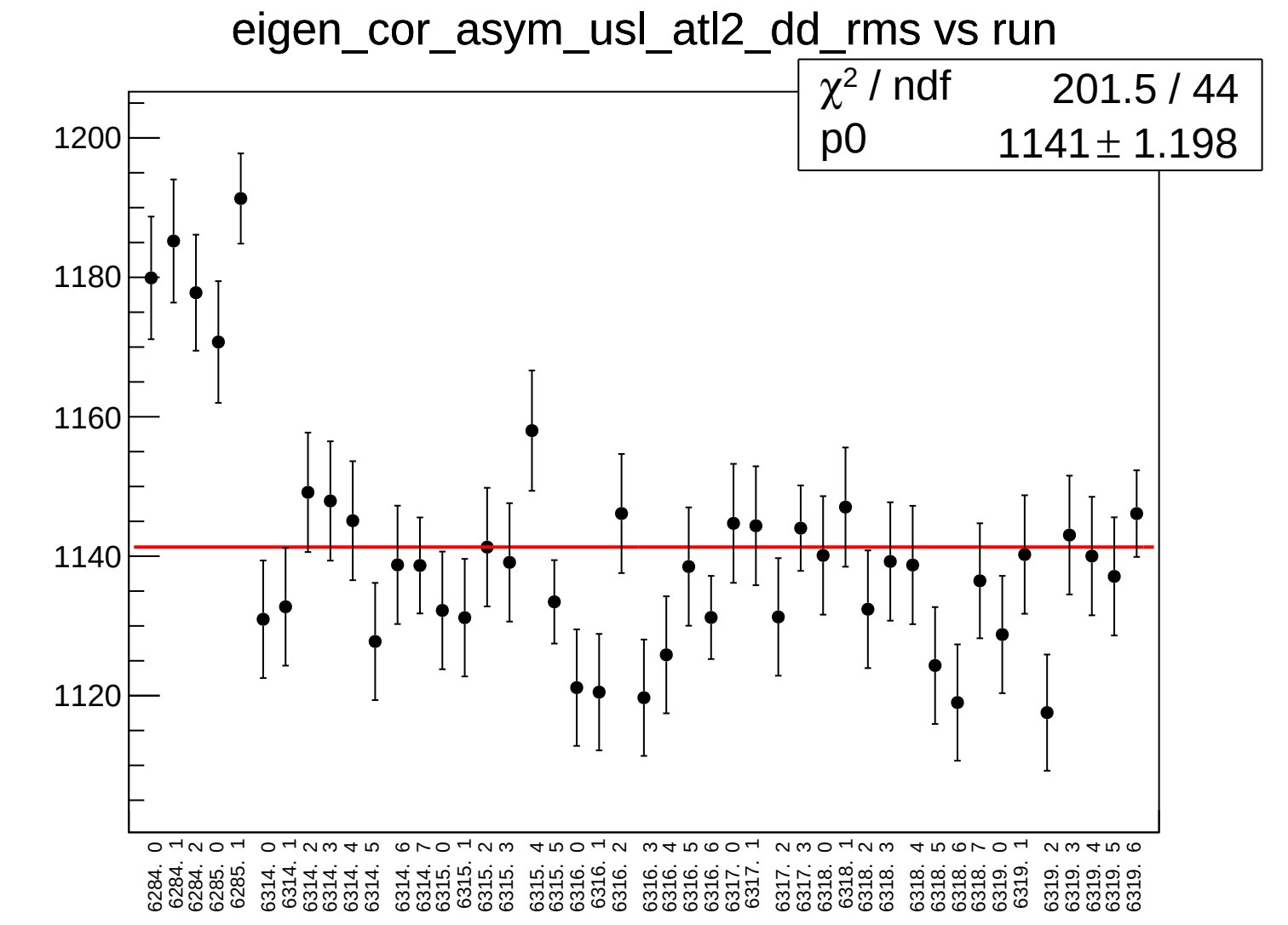
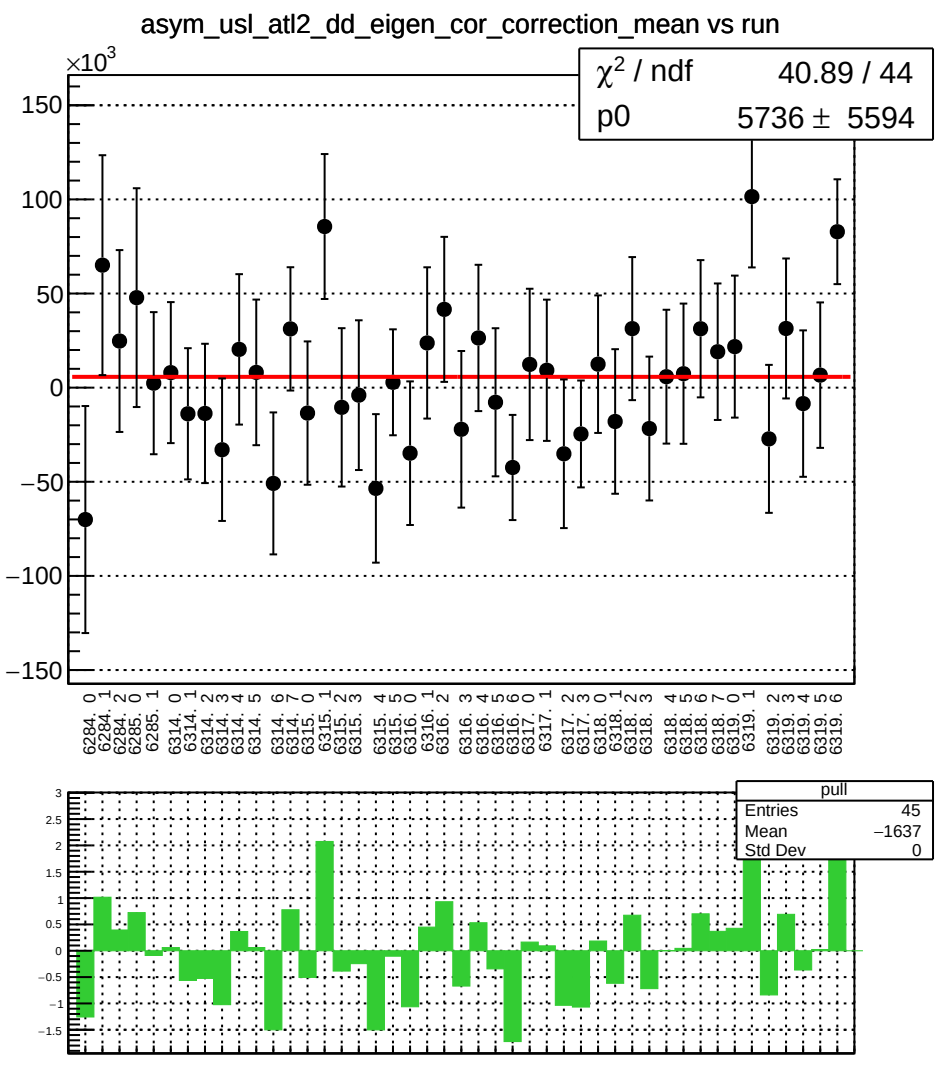
6319. 4
6319. 5
6319. 6

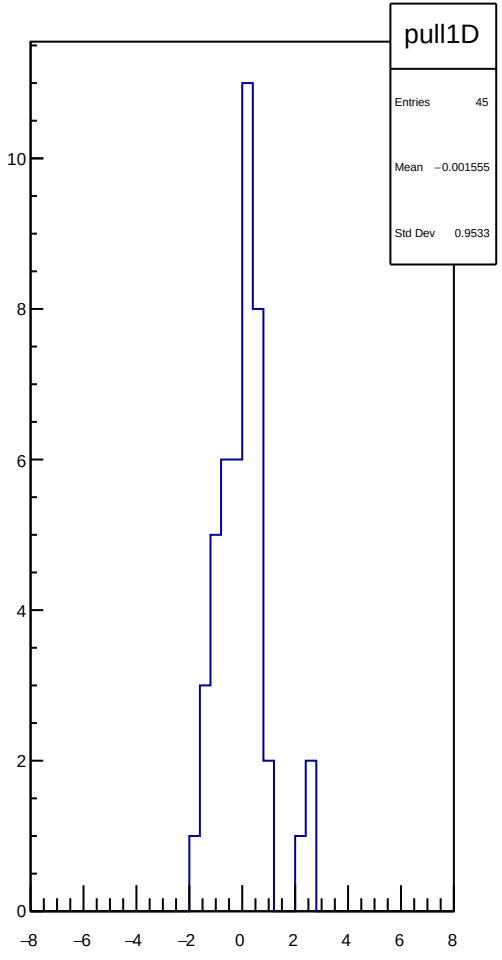

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.89 / 44
p0 5736 ± 5594
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1637
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001555
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

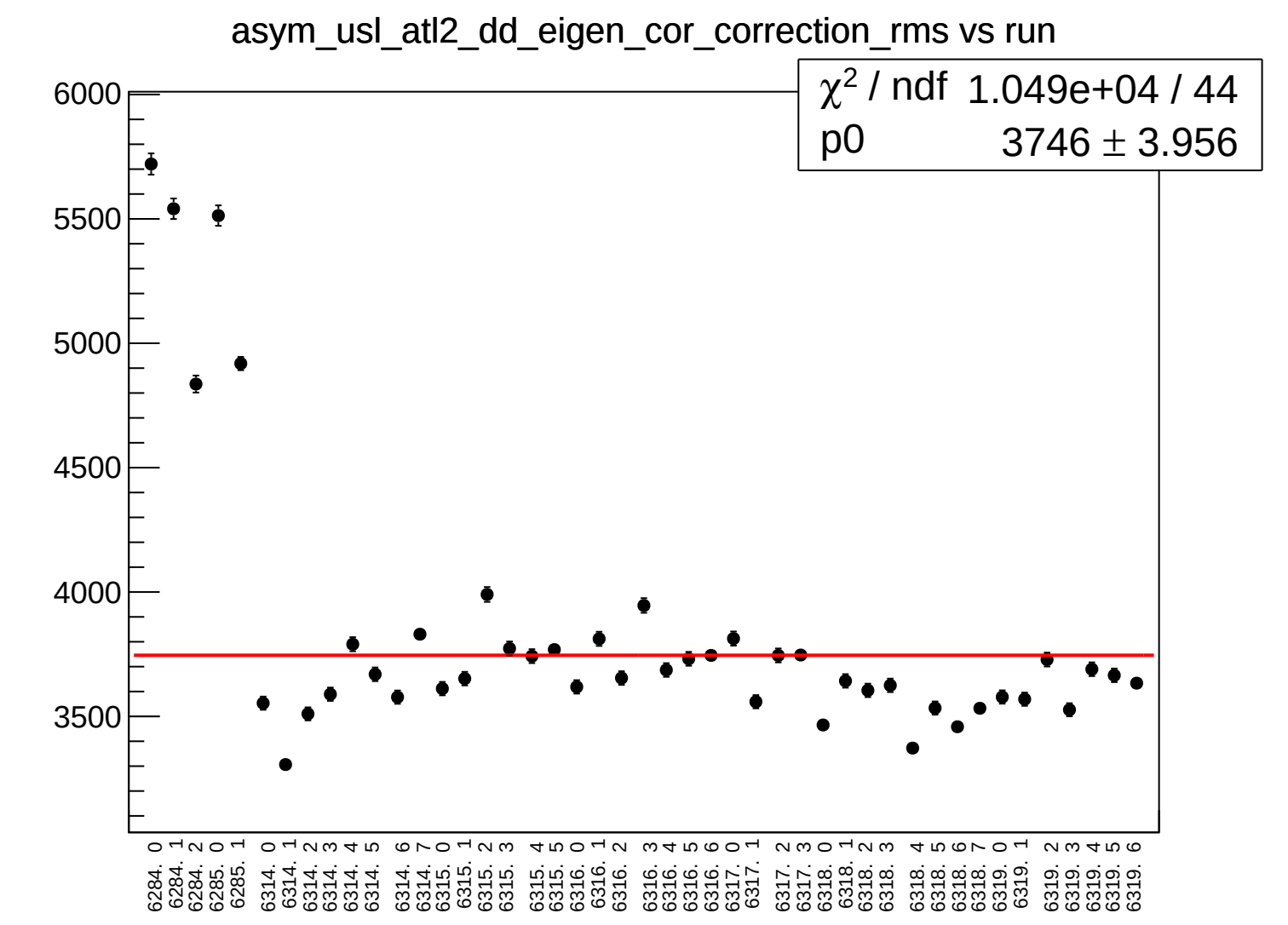

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 44
p0 3746 ± 3.956
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

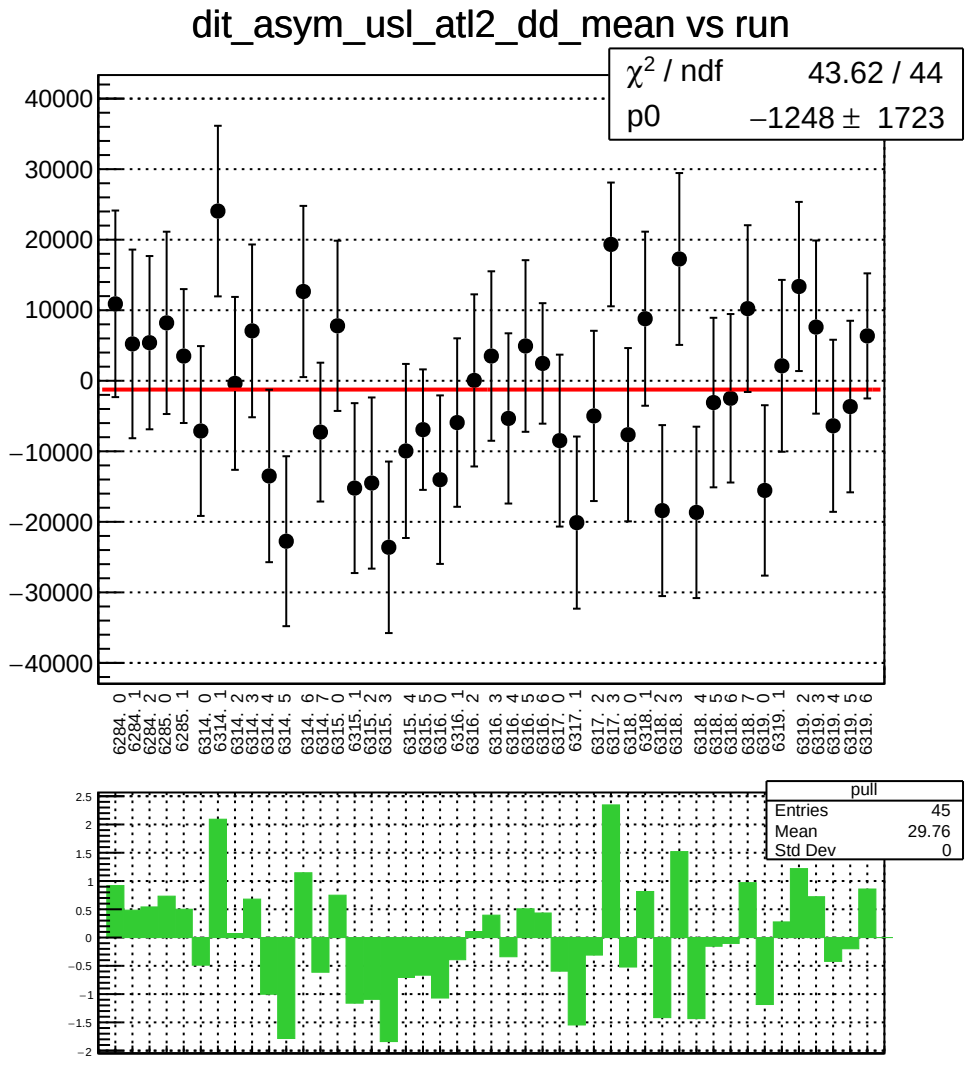

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 47.07 / 44
p0 −907.3 ± 1695
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 56.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01719
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

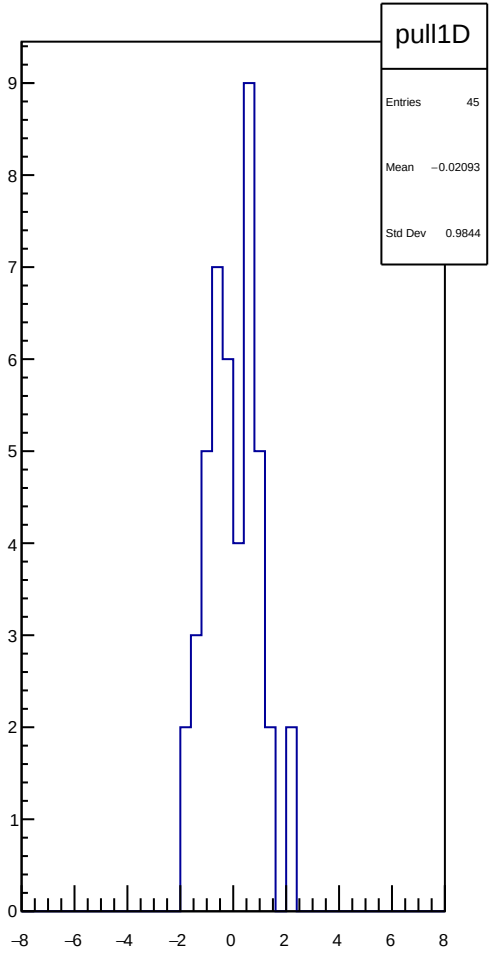

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 201.5 / 44
p0 1141 ± 1.198
1200
1180
1160
1140
1120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

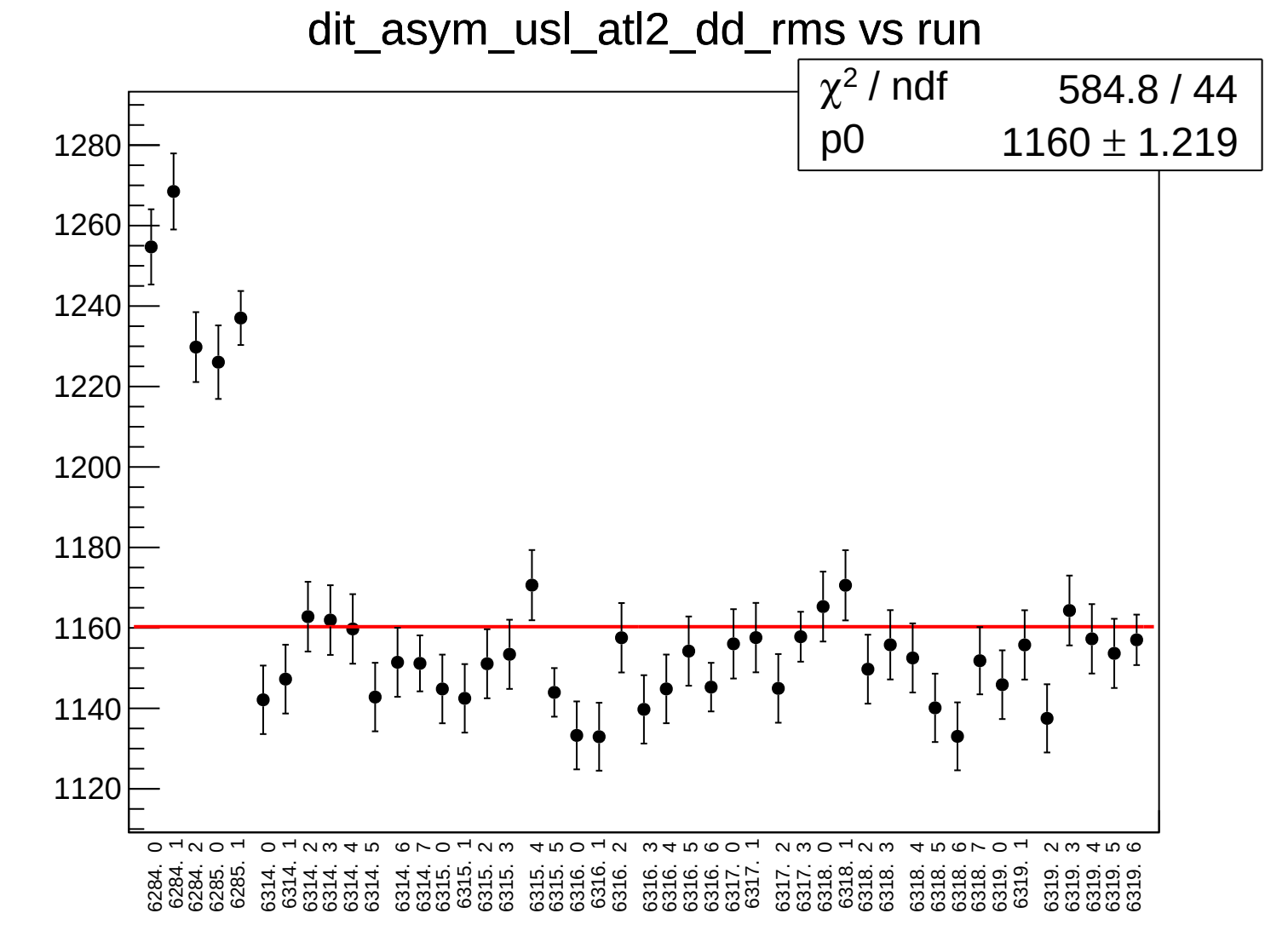

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.89 / 44
p0 5736 ± 5594
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1637
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001555
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 44
p0 3746 ± 3.956
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 43.62 / 44
p0 −1248 ± 1723
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02093
Std Dev 0.9844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 584.8 / 44
p0 1160 ± 1.219
1280
1260
1240
1220
1200
1180
1160
1140
1120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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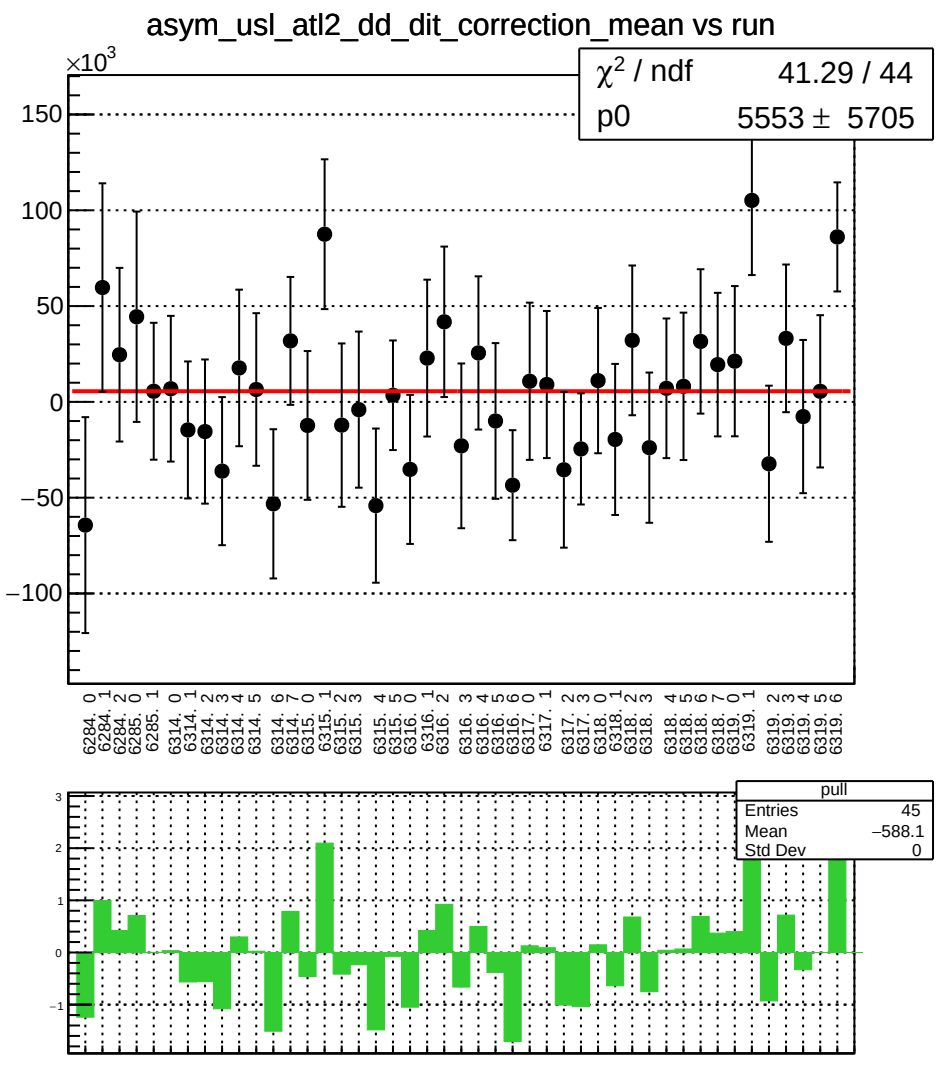
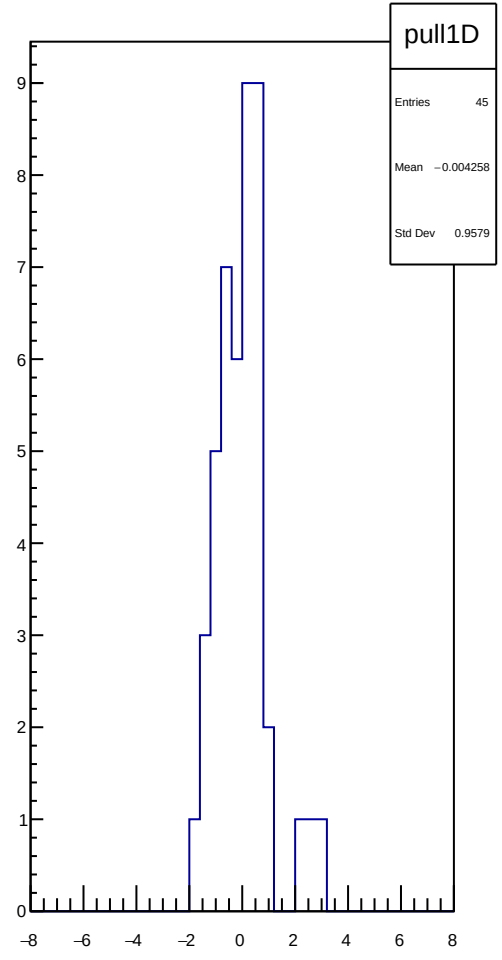
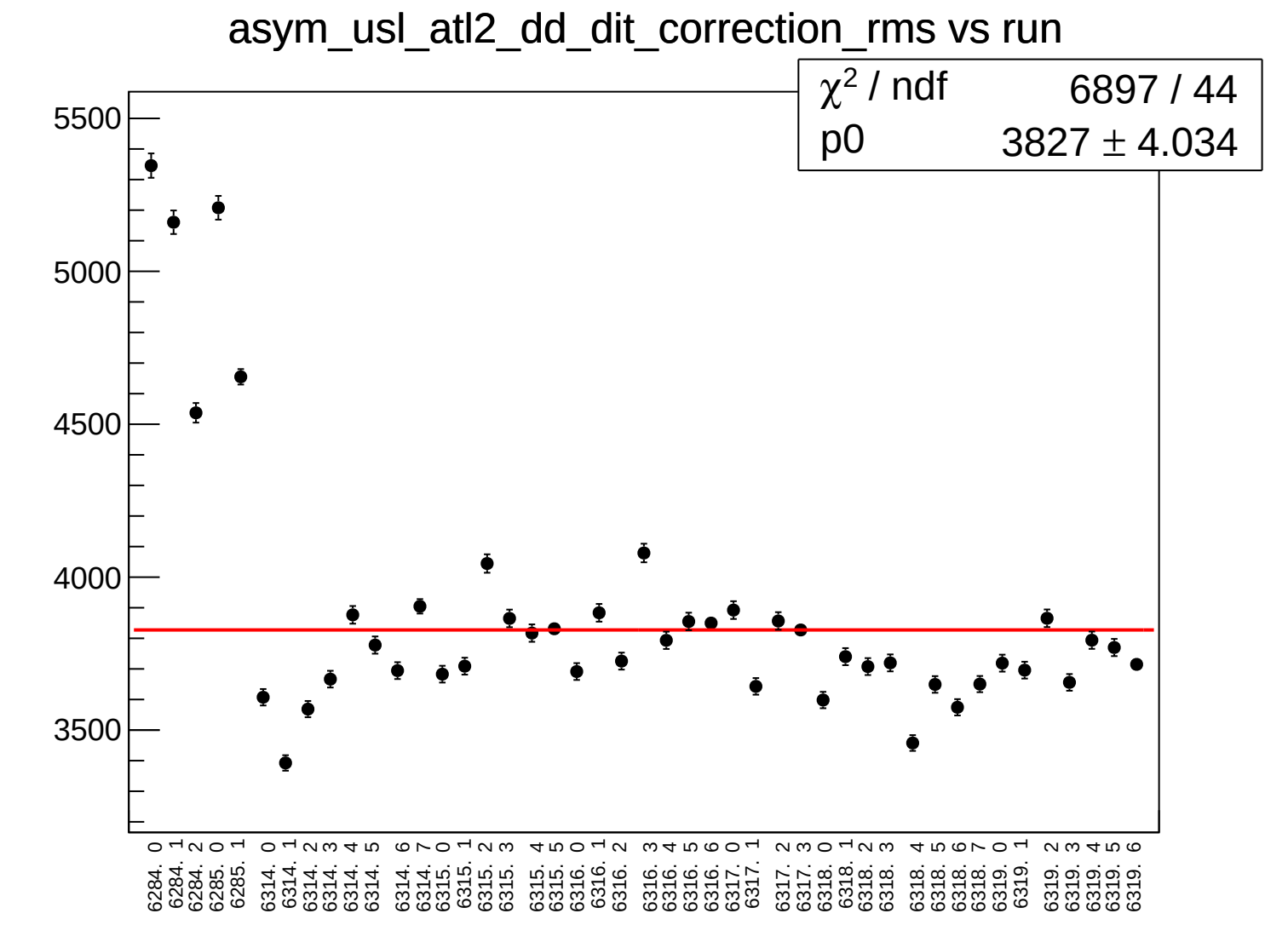
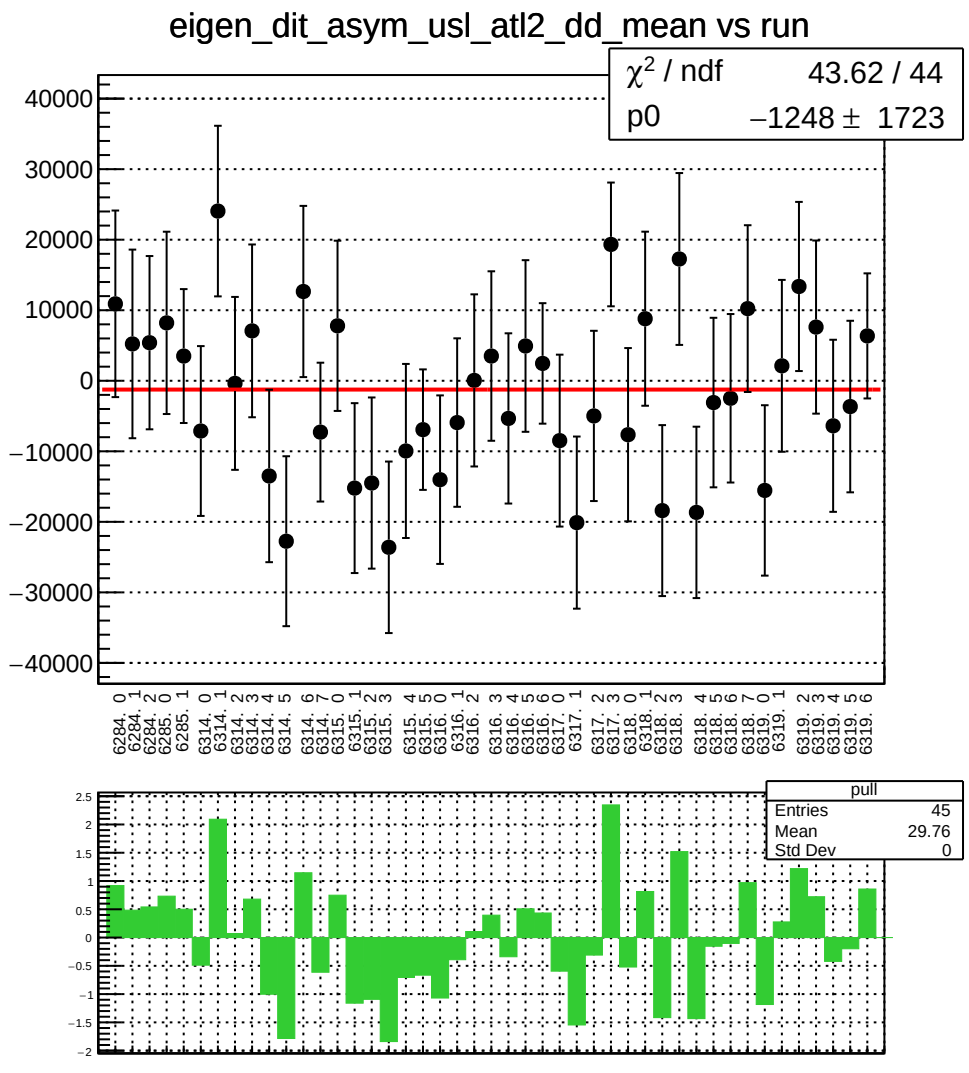
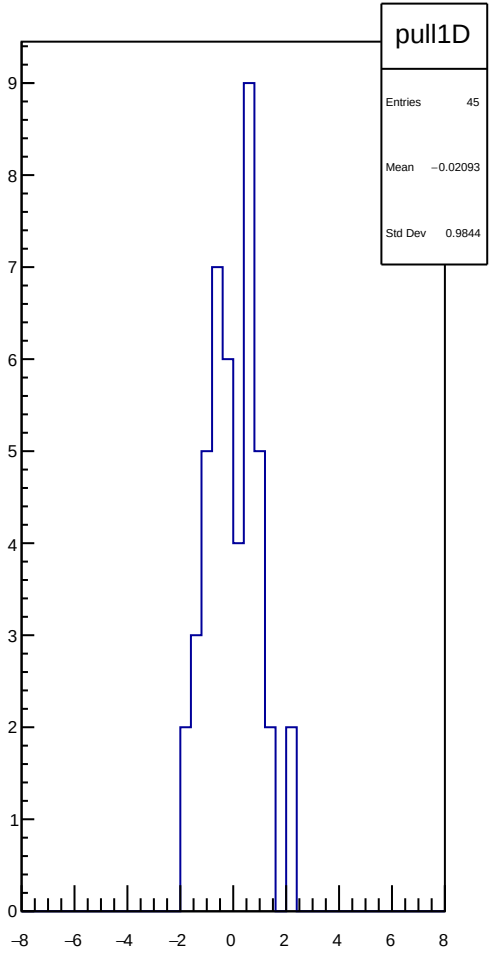
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

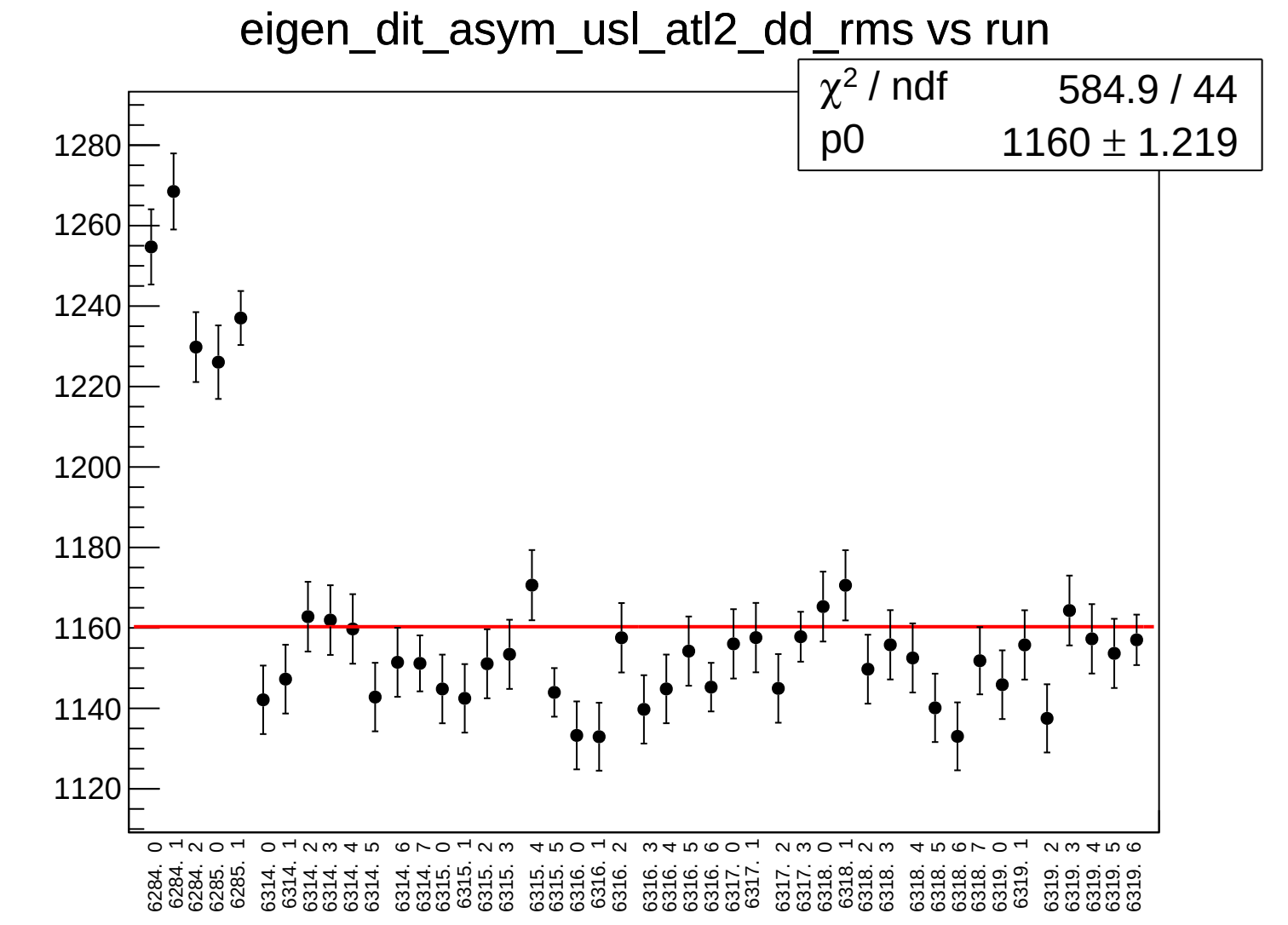

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.29 / 44
p0 5553 ± 5705
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −588.1
Std Dev 0
3
2
1
0
−1

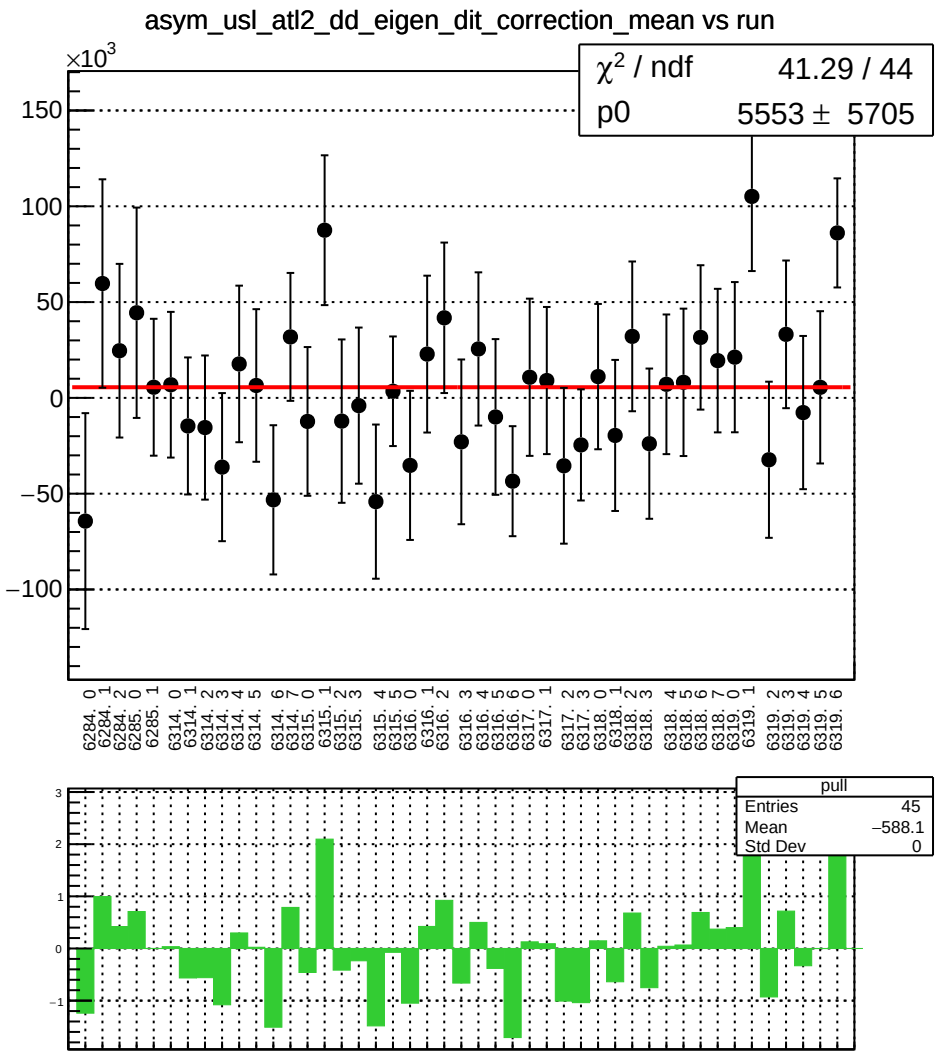

pull1D
Entries 45
Mean −0.004258
Std Dev 0.9579
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

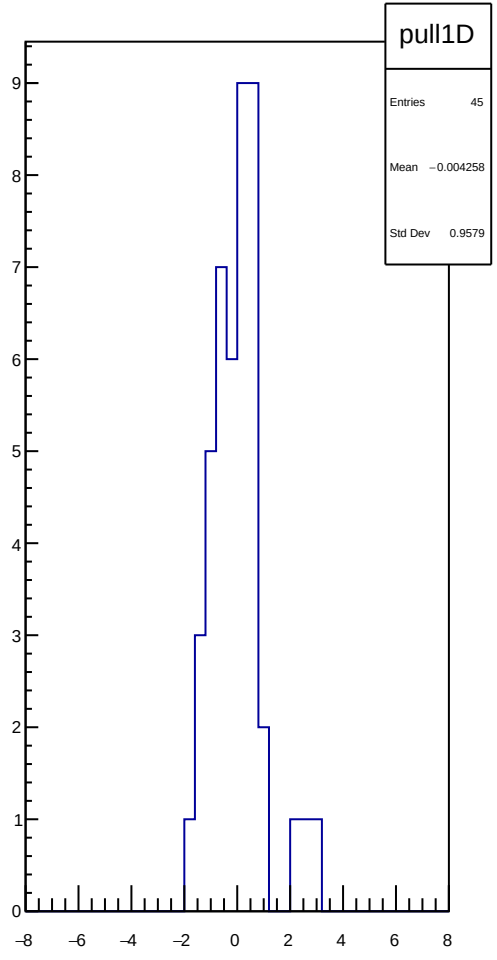

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6897 / 44
p0 3827 ± 4.034
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

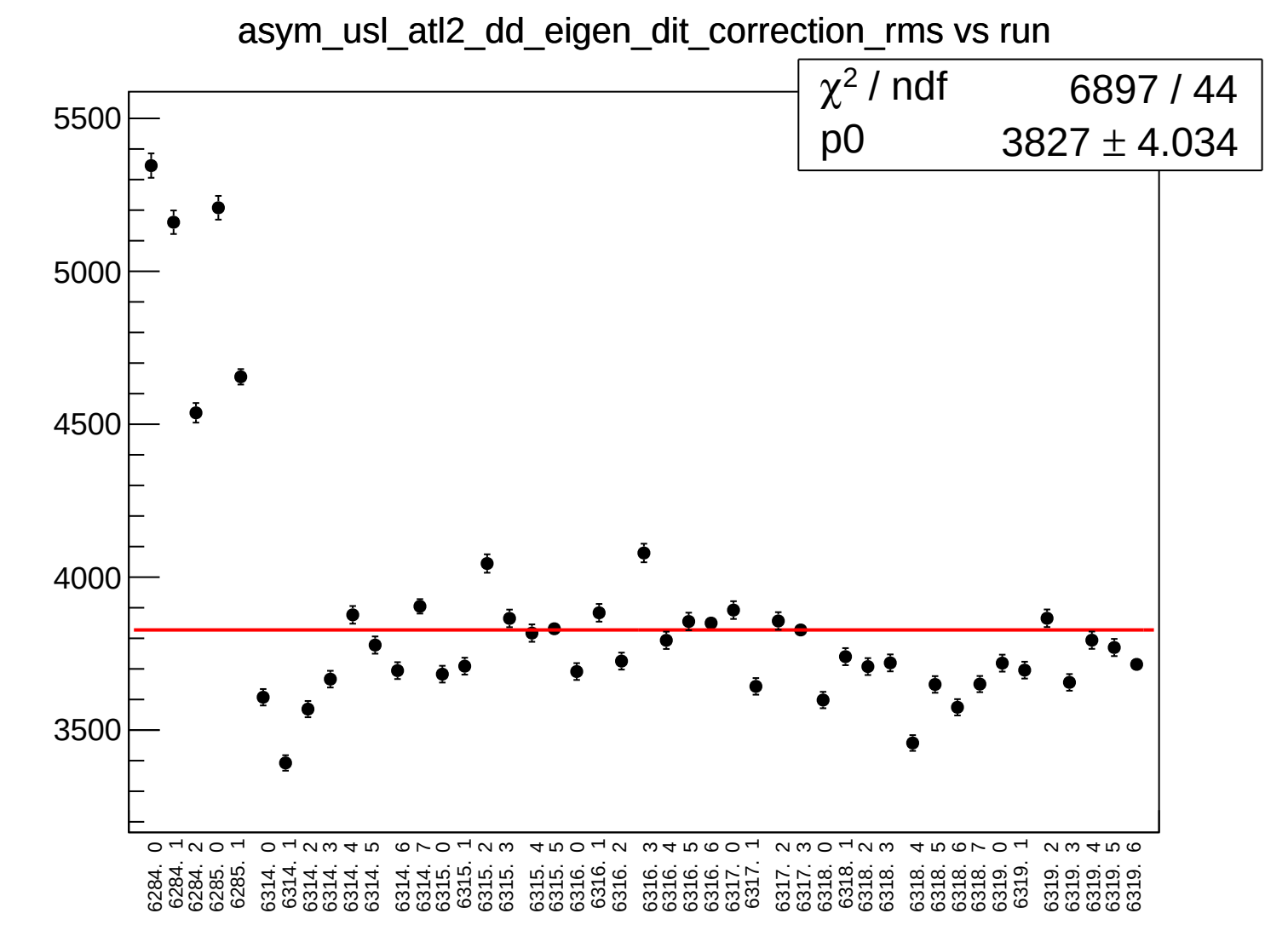

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 43.62 / 44
p0 −1248 ± 1723
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02093
Std Dev 0.9844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 584.9 / 44
p0 1160 ± 1.219
1280
1260
1240
1220
1200
1180
1160
1140
1120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.29 / 44
p0 5553 ± 5705
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −588.1
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean −0.004258
Std Dev 0.9579
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6897 / 44
p0 3827 ± 4.034
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 2
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6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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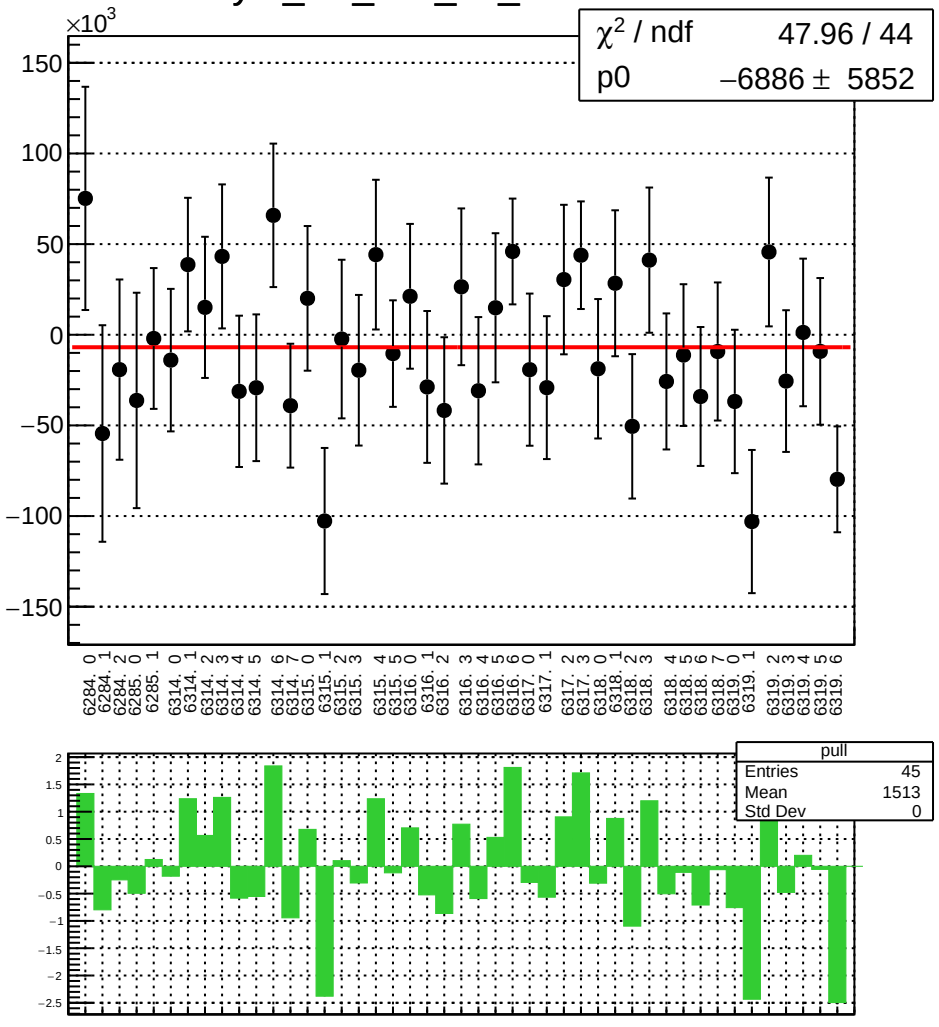
6319. 6


asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 47.96 / 44
p0 −6886 ± 5852
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 5
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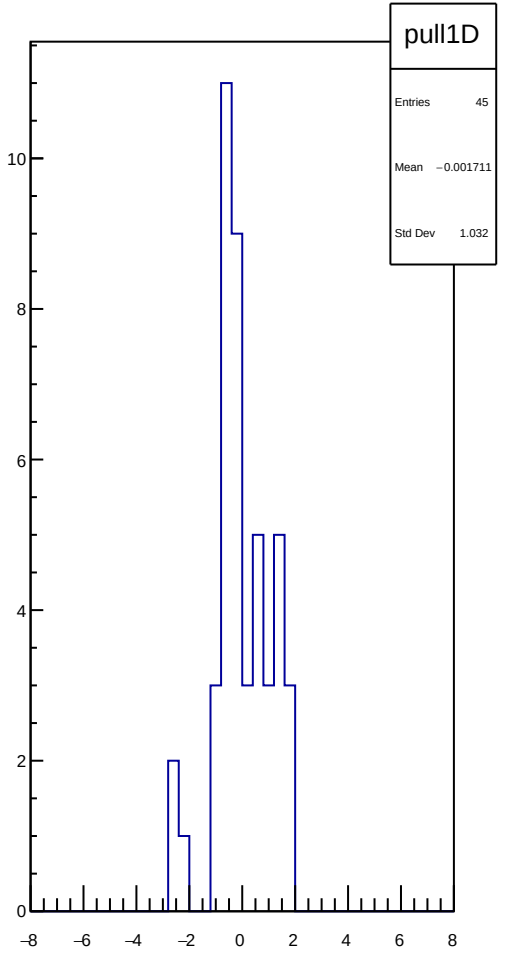
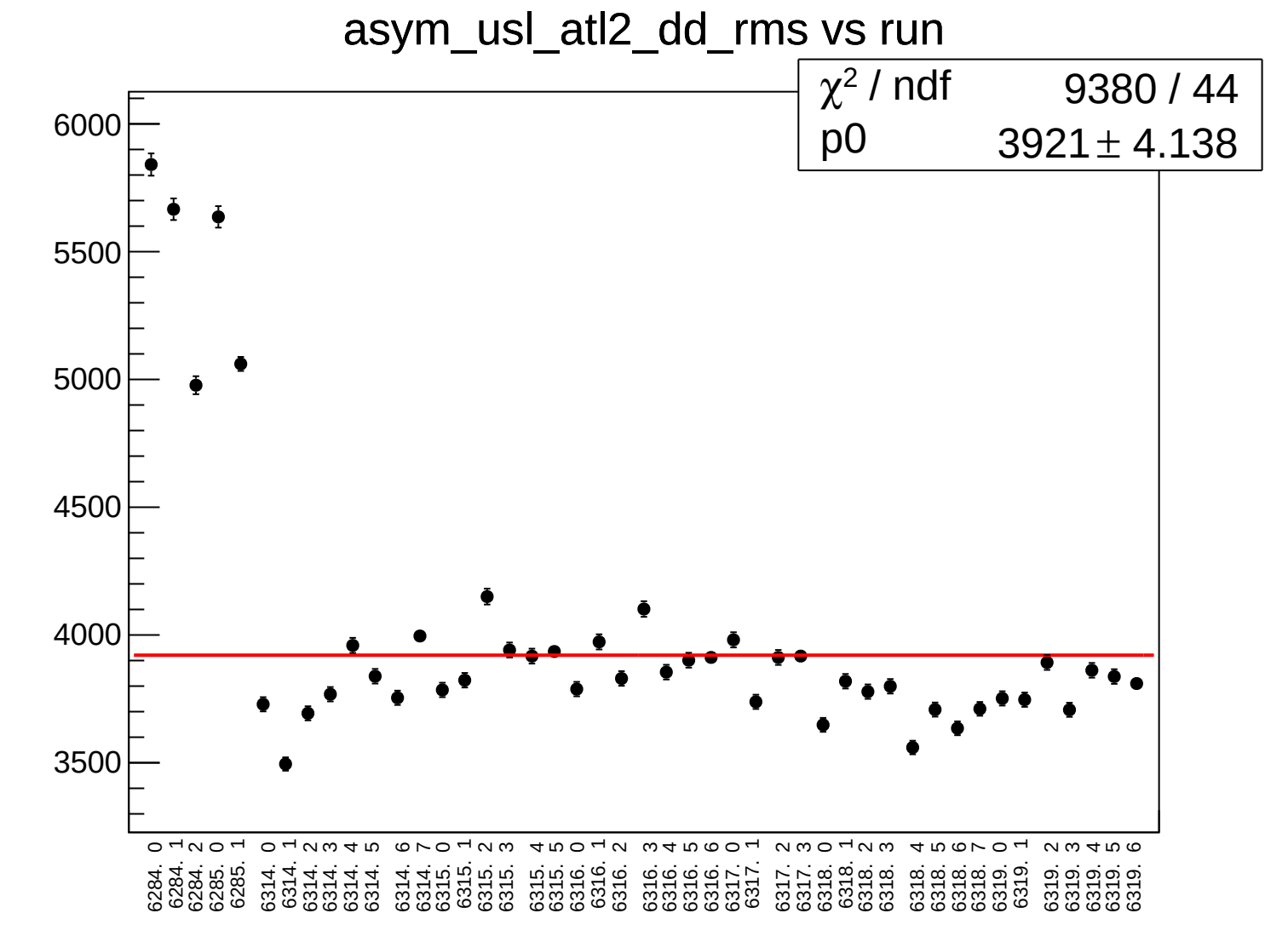
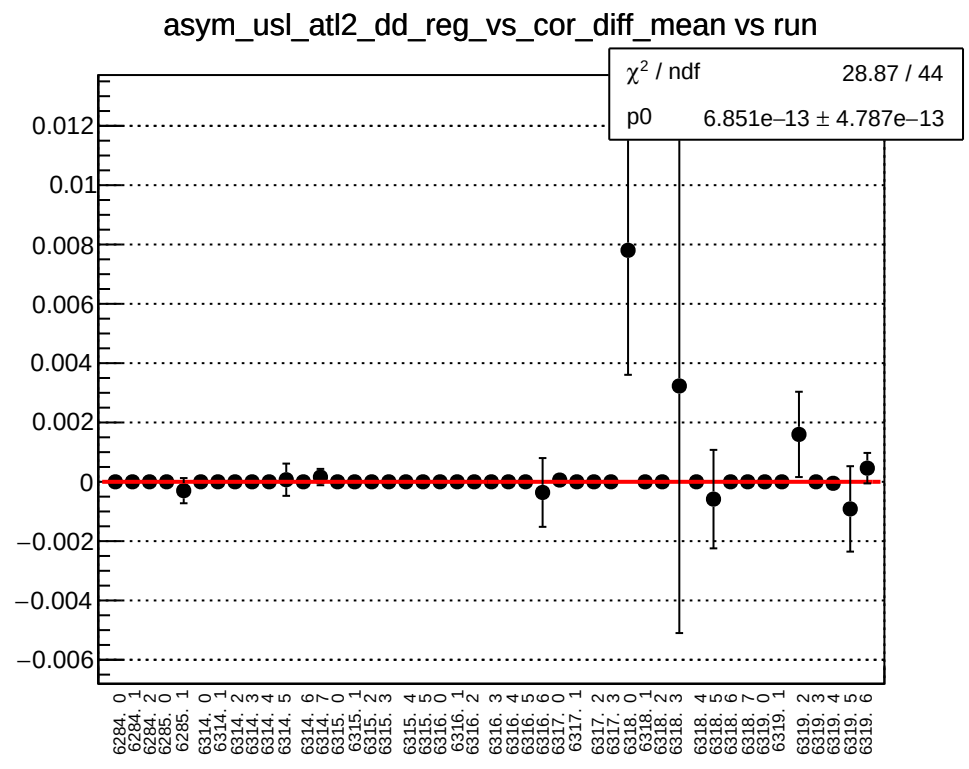
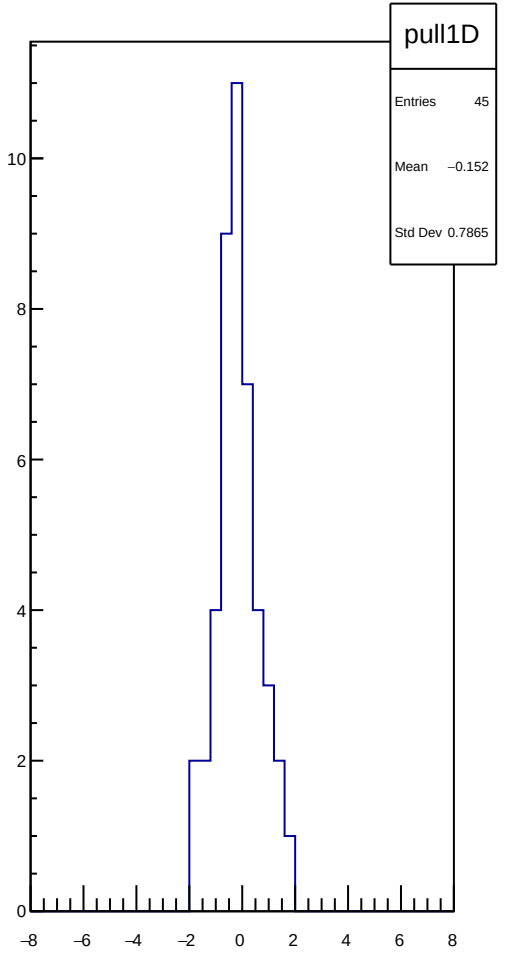
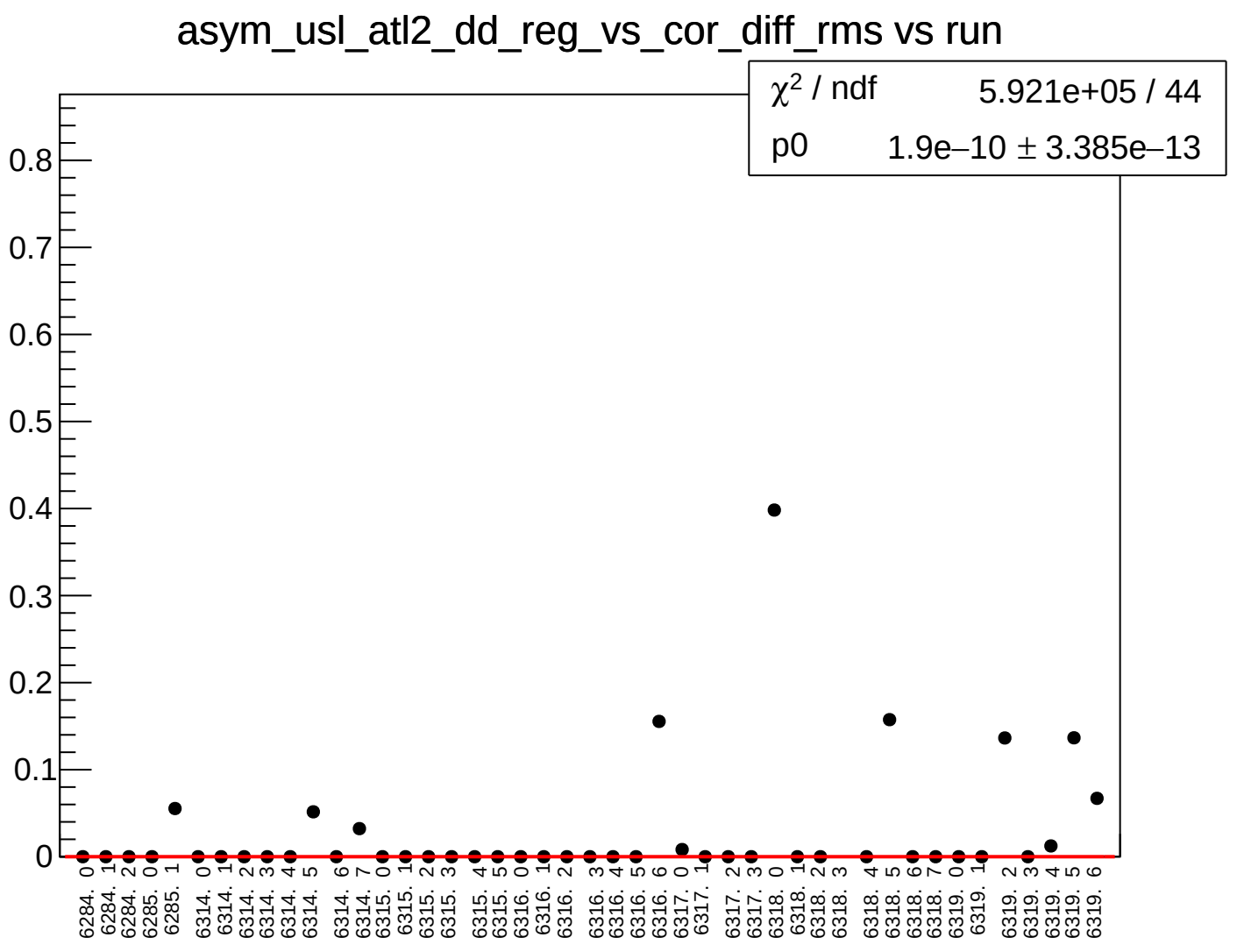
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1513
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

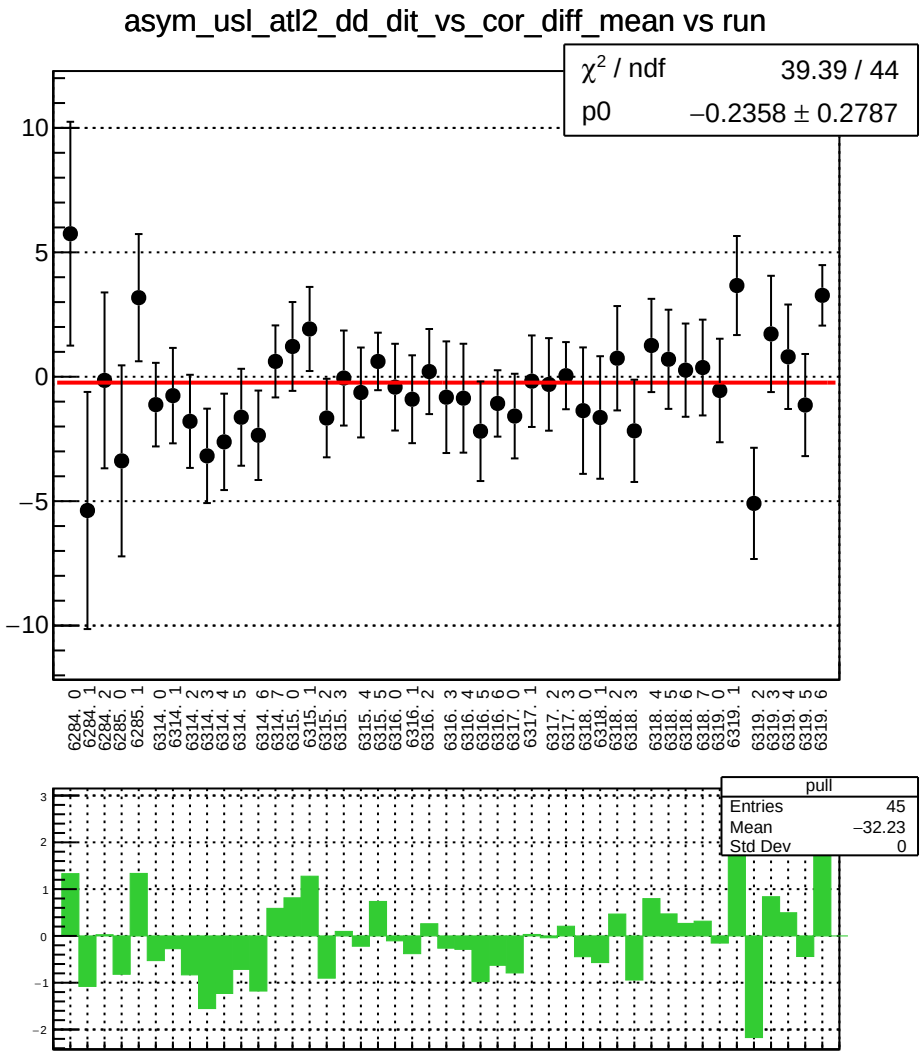

pull1D
Entries 45
Mean −0.001711
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

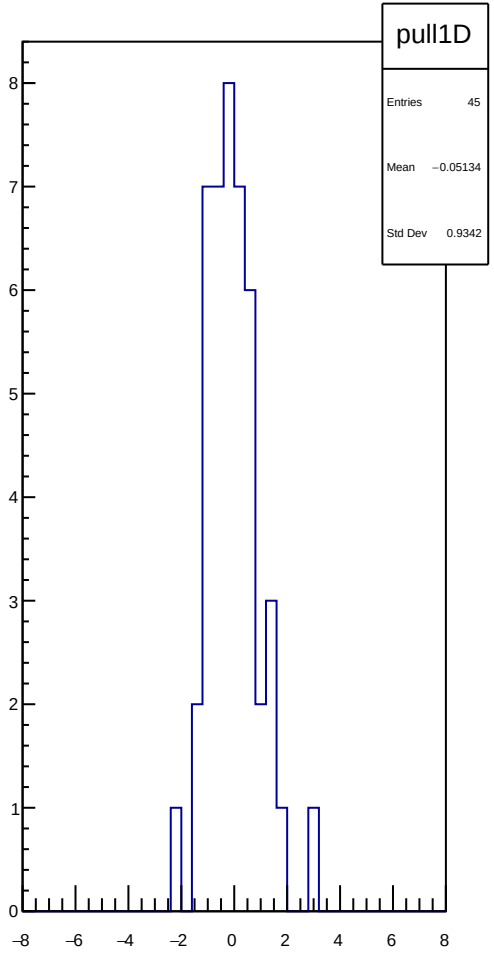

asym_usl_atl2_dd_rms vs run
χ² / ndf 9380 / 44
p0 3921 ± 4.138
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

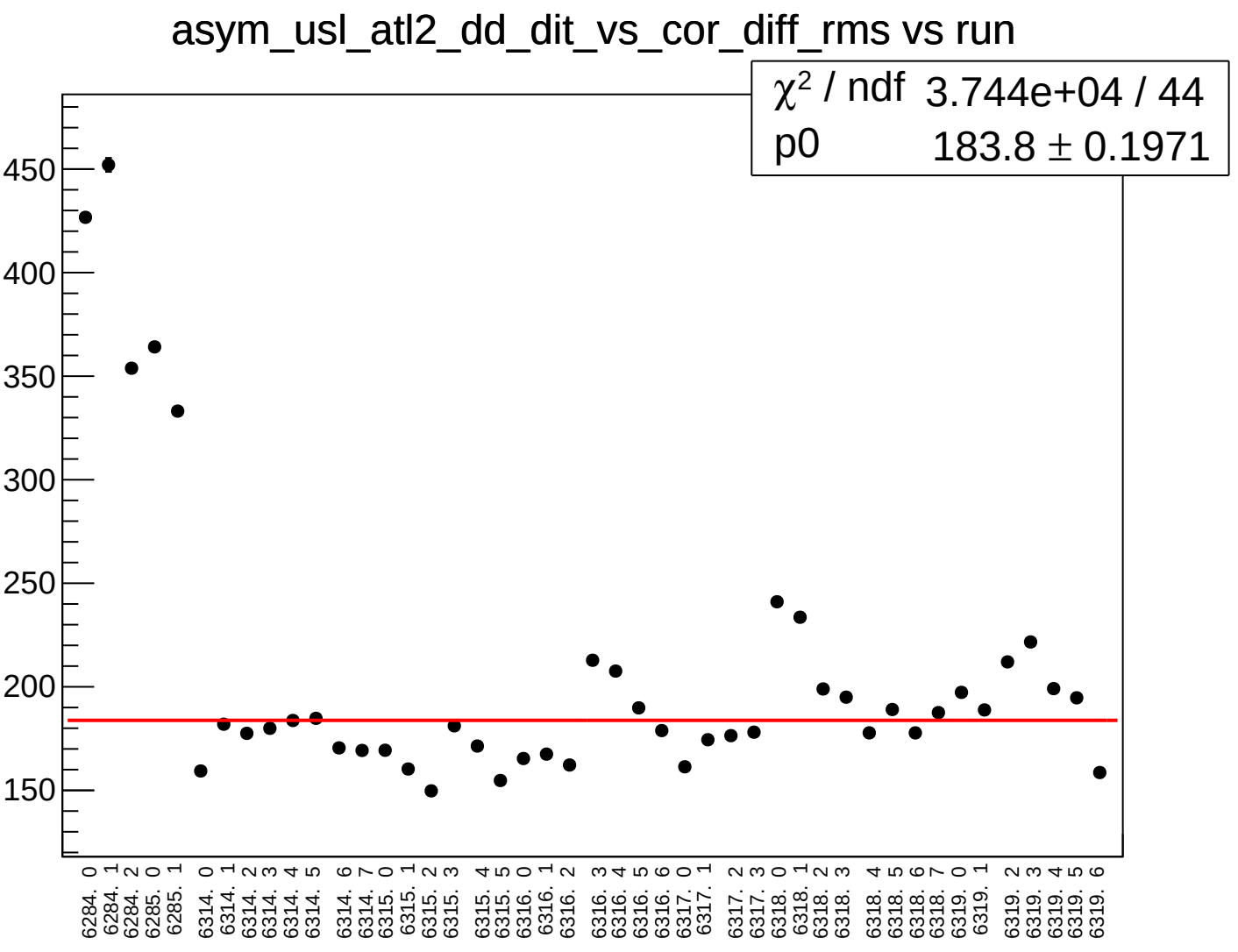

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.87 / 44
p0 6.851e−13 ± 4.787e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8.375
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.152
Std Dev 0.7865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.921e+05 / 44
p0 1.9e−10 ± 3.385e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.39 / 44
p0 −0.2358 ± 0.2787
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −32.23
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.05134
Std Dev 0.9342
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 44
p0 183.8 ± 0.1971
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
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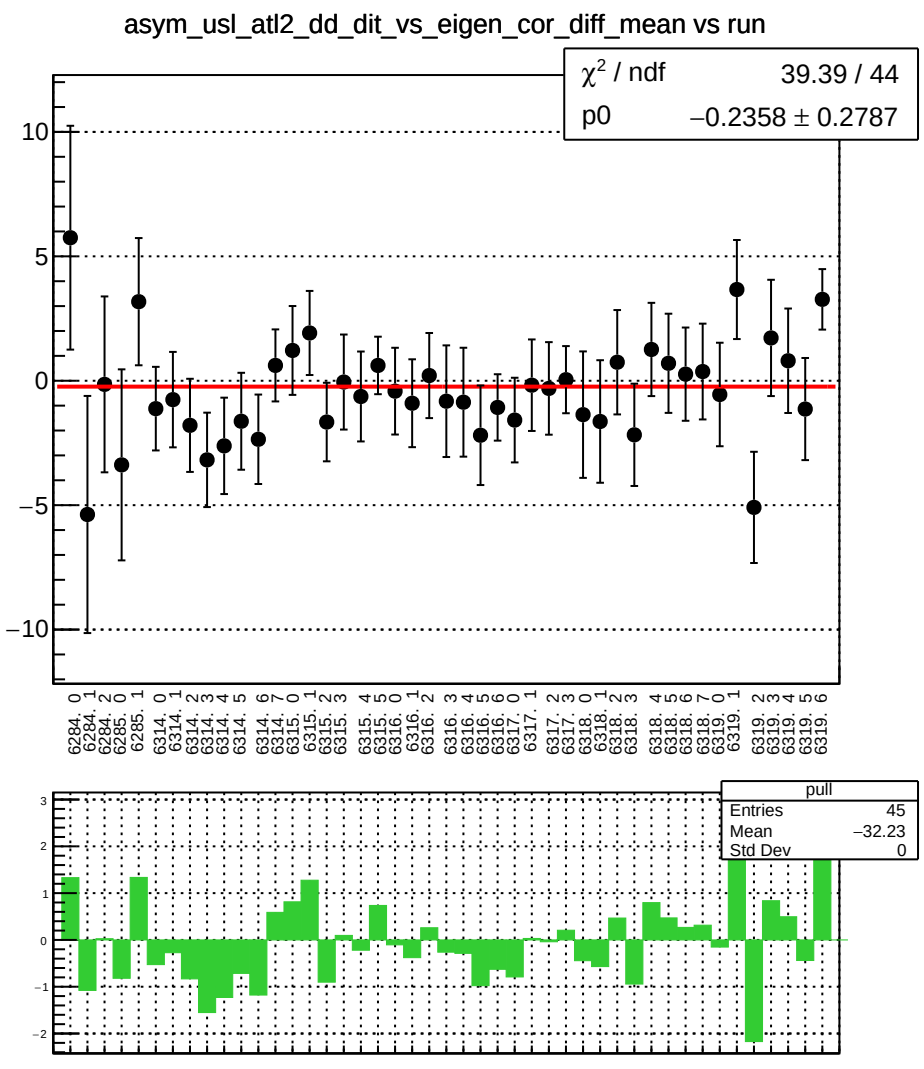
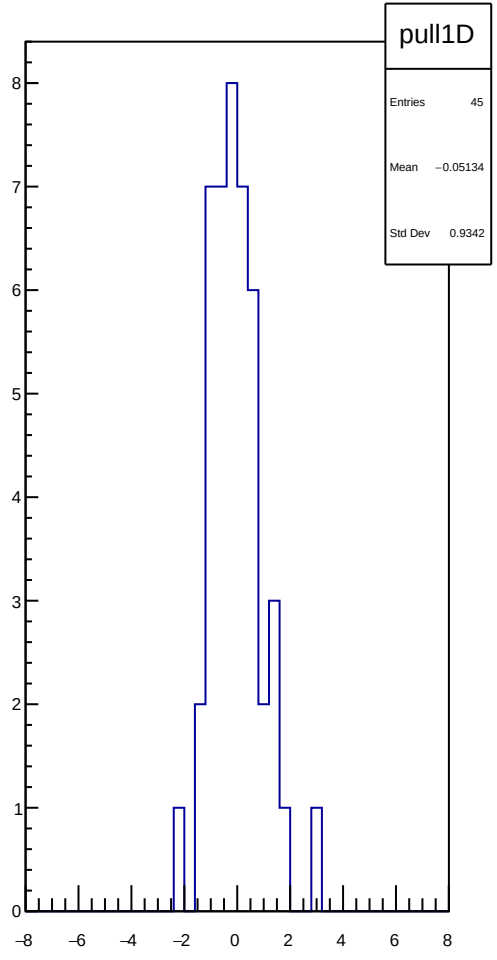
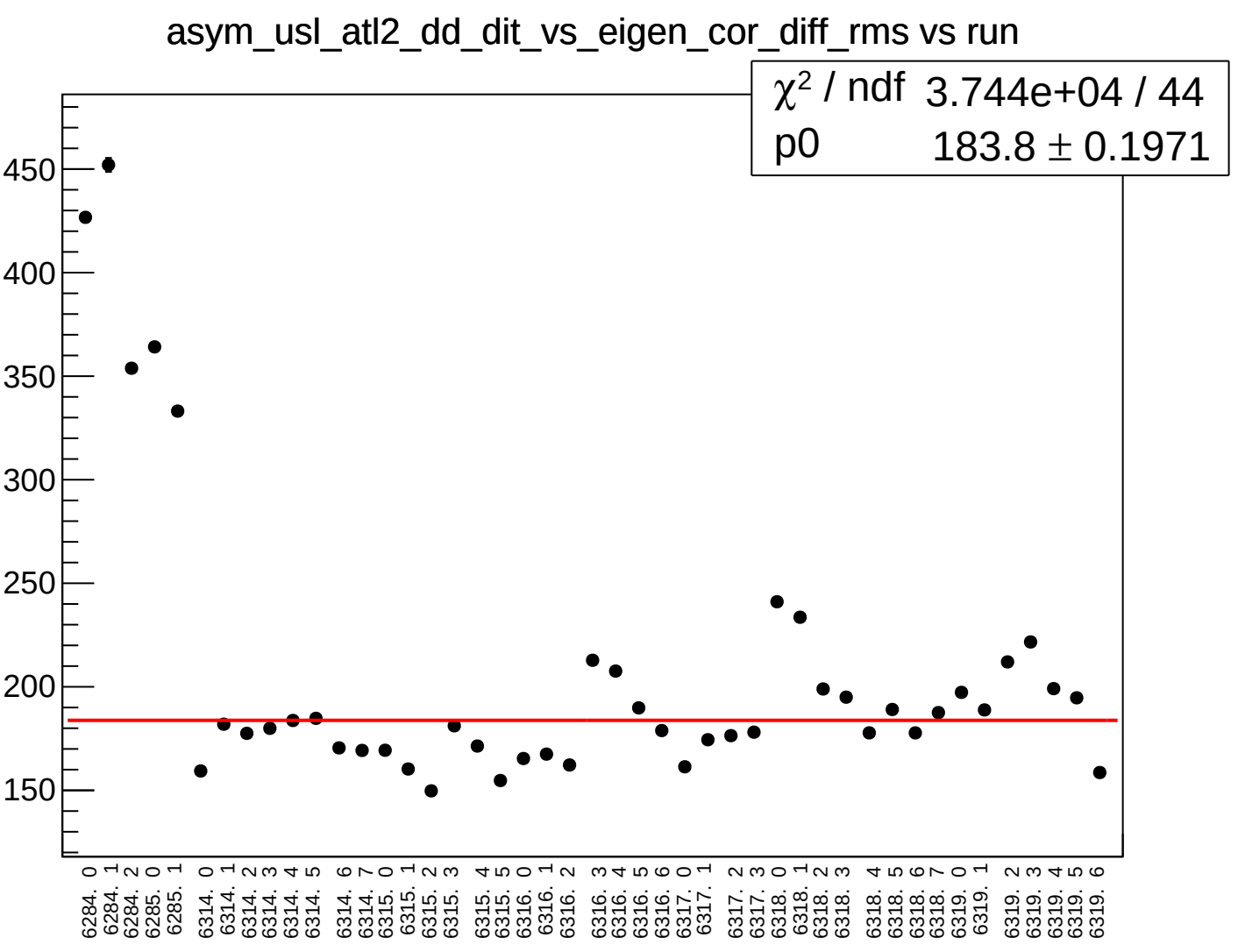
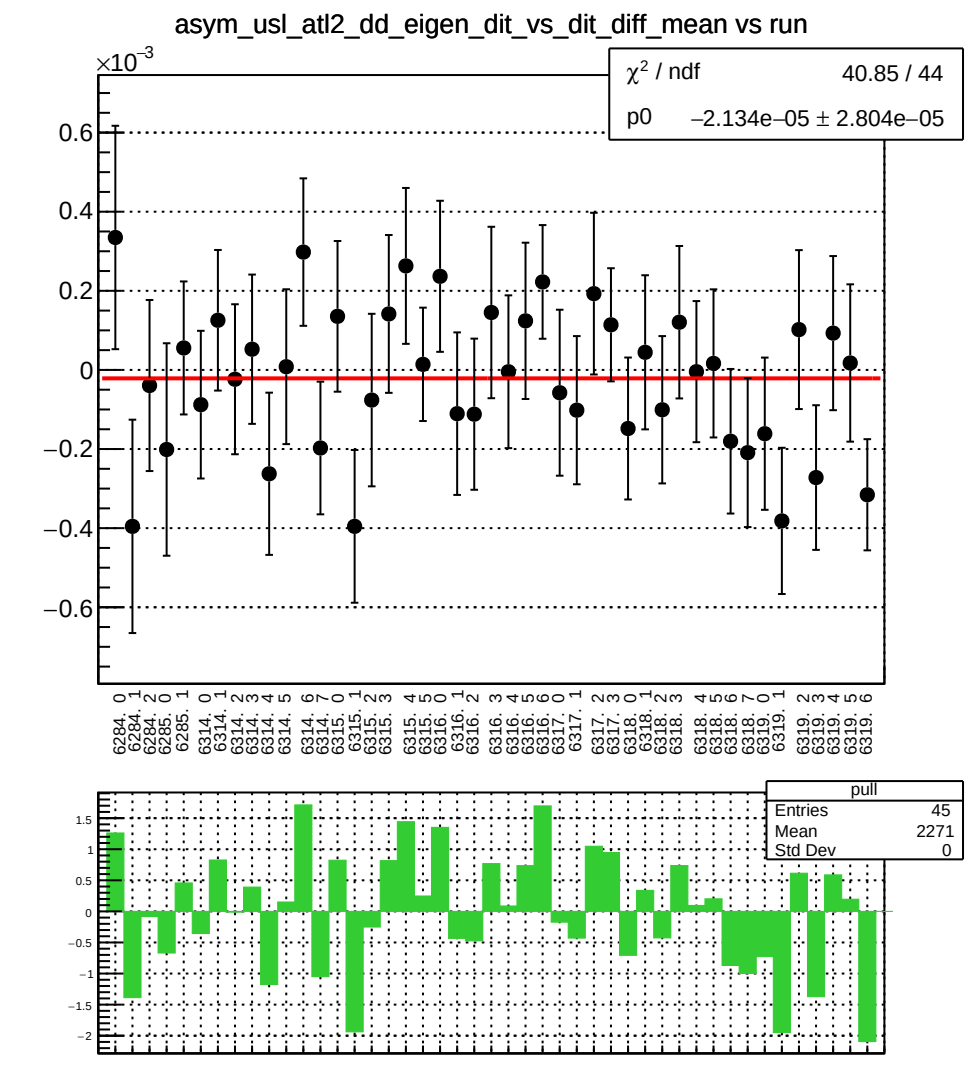
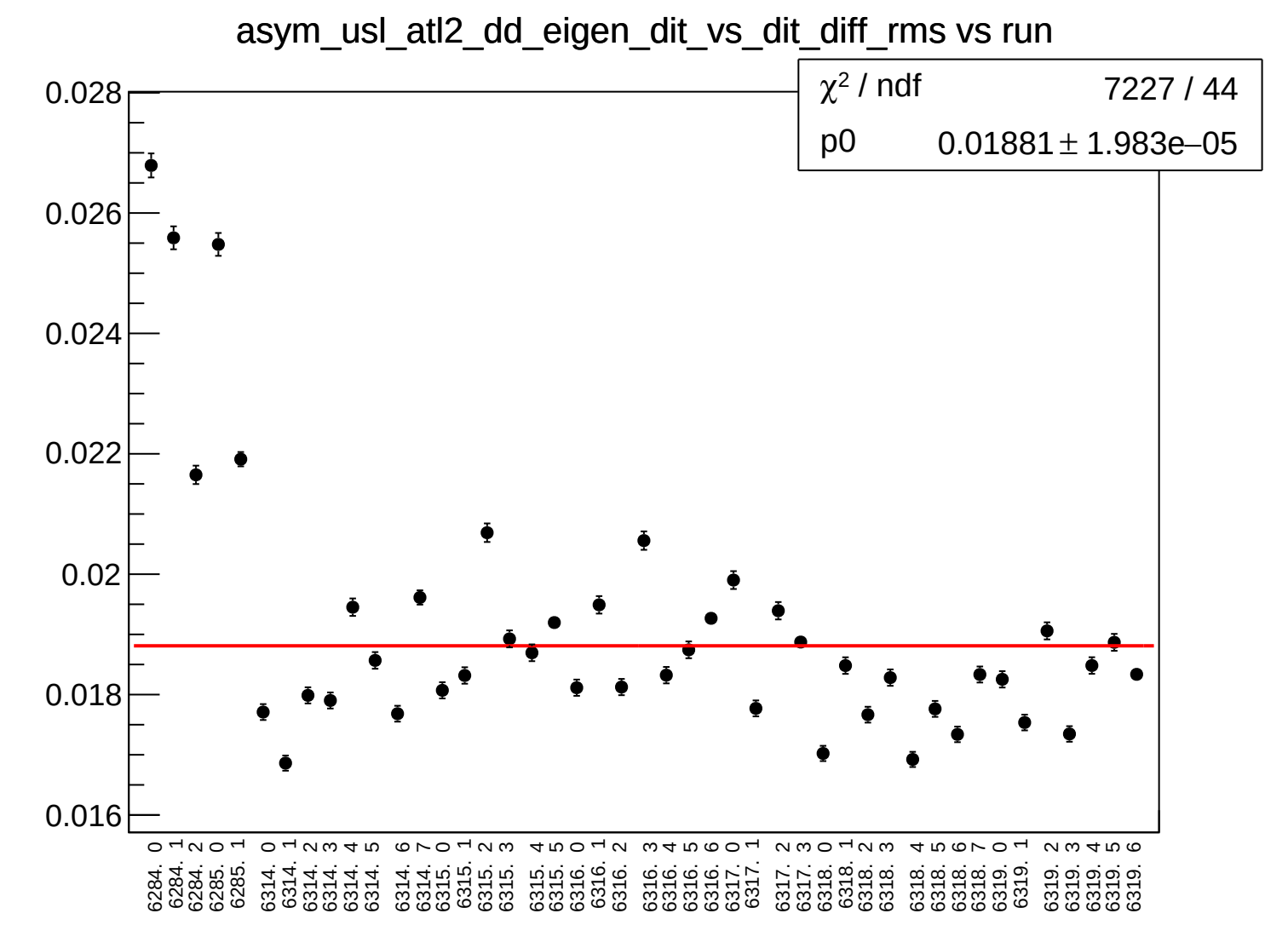
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

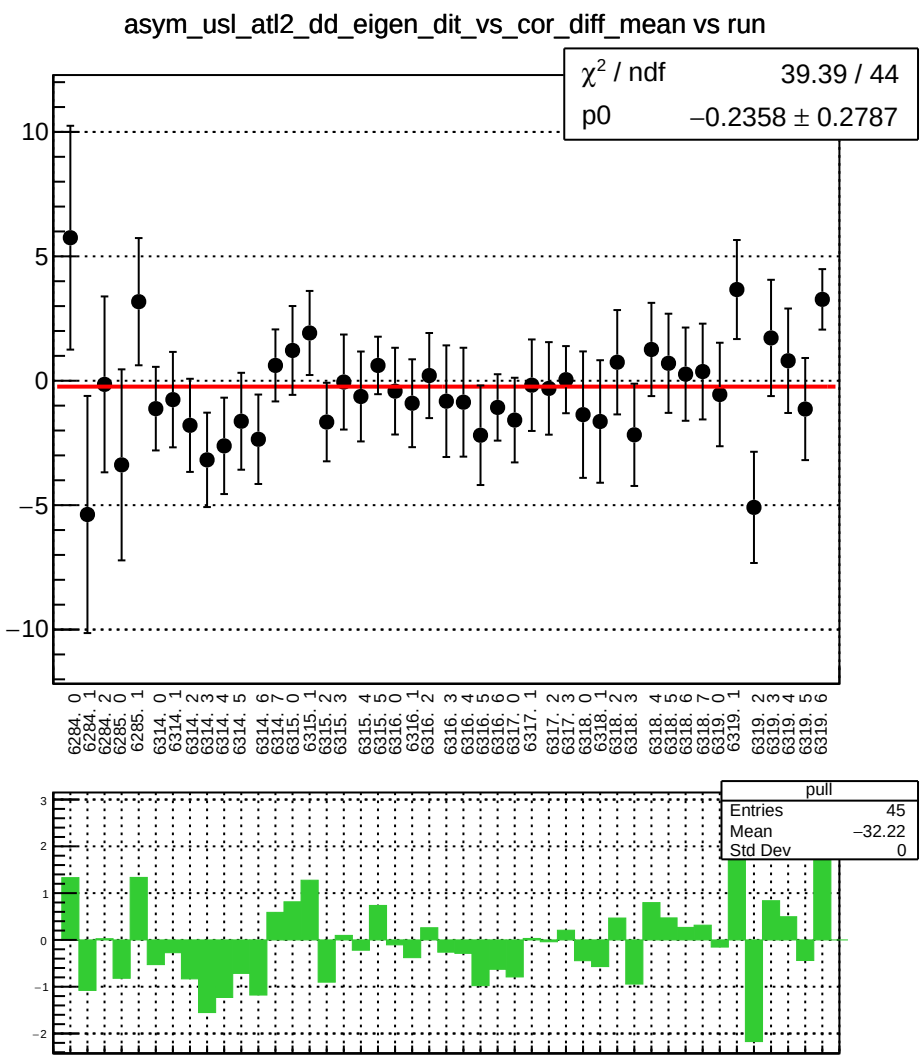

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.39 / 44
p0 −0.2358 ± 0.2787
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −32.23
Std Dev 0
3
2
1
0
−1
−2

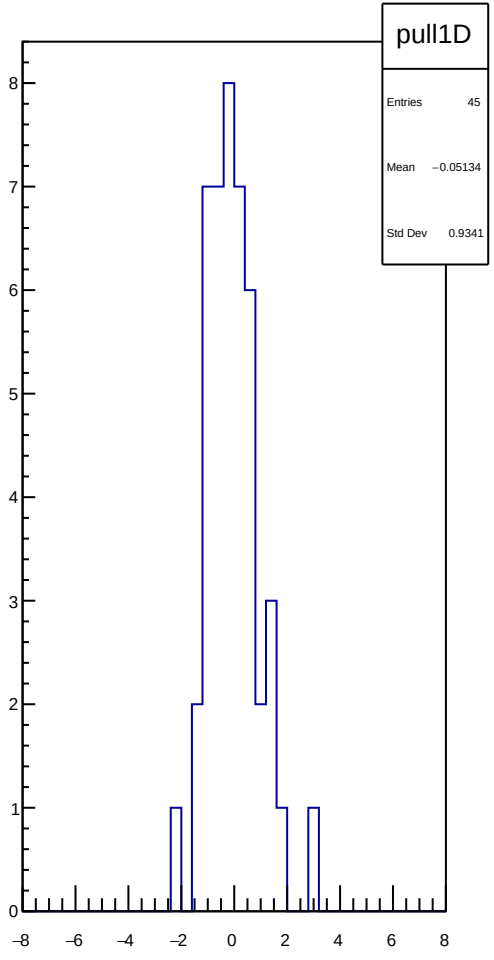

pull1D
Entries 45
Mean −0.05134
Std Dev 0.9342
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

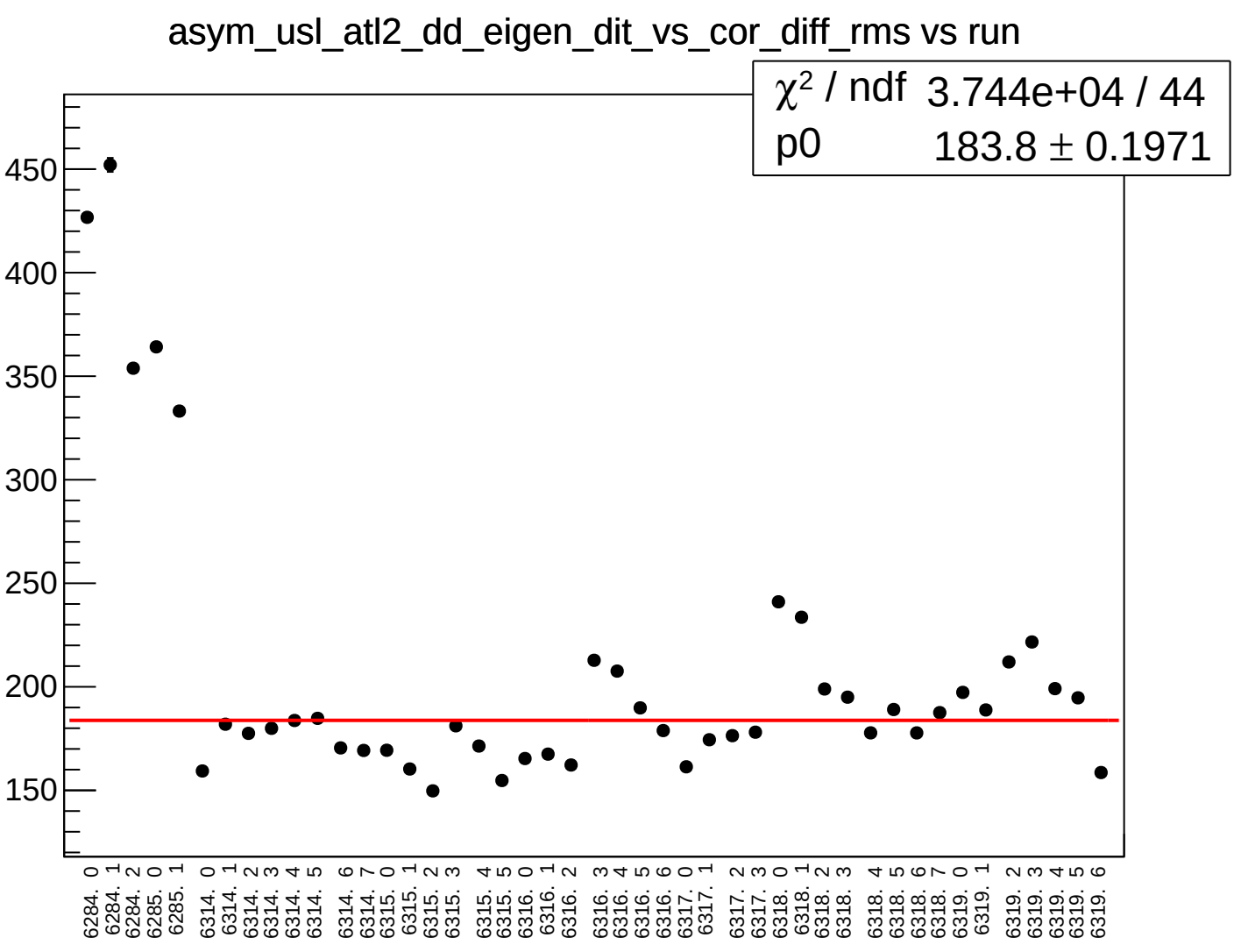

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 44
p0 183.8 ± 0.1971
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.85 / 44
p0 −2.134e−05 ± 2.804e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2271
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0009999
Std Dev 0.9528
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7227 / 44
p0 0.01881 ± 1.983e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.39 / 44
p0 −0.2358 ± 0.2787
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −32.22
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.05134
Std Dev 0.9341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 44
p0 183.8 ± 0.1971
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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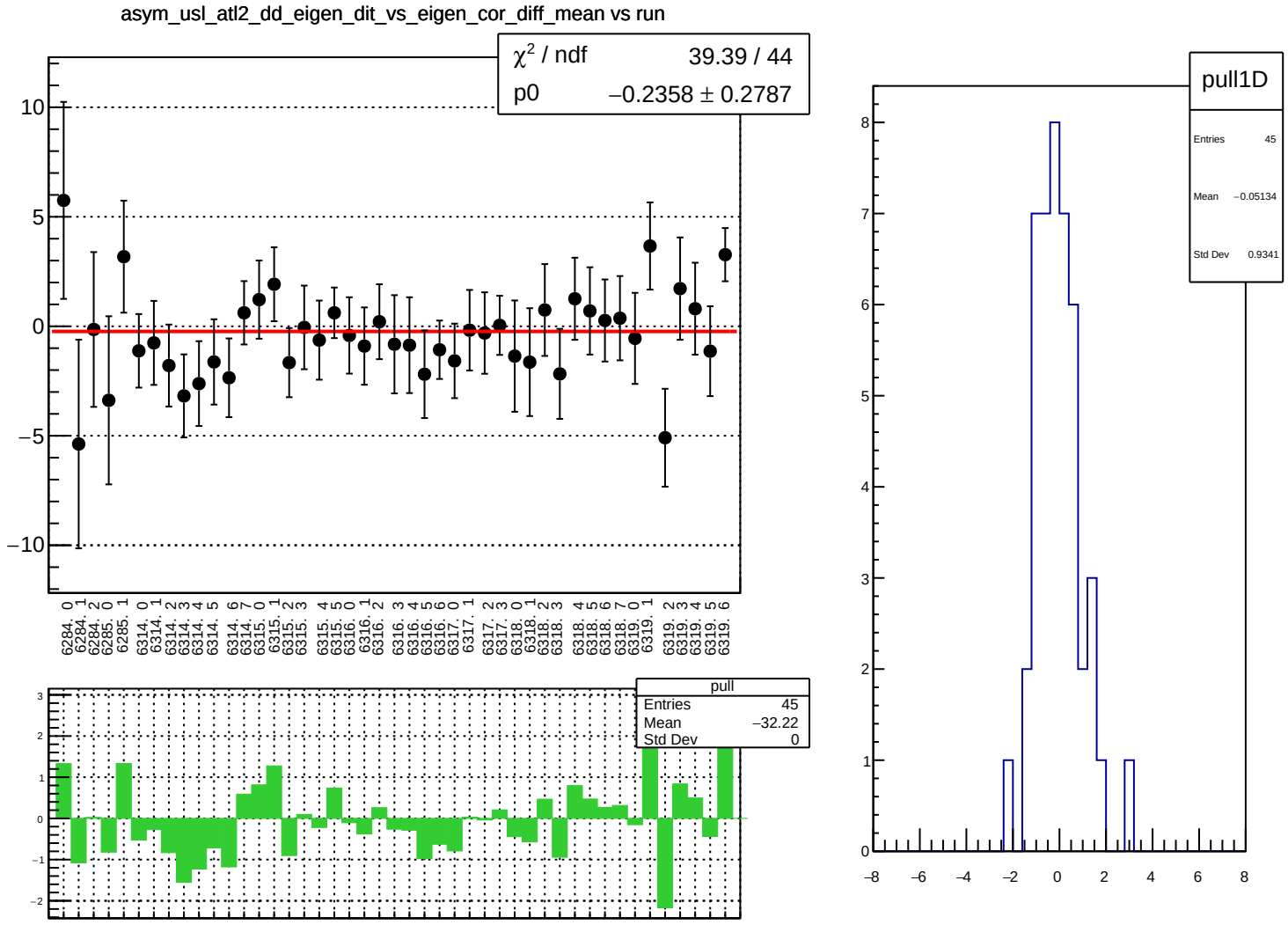
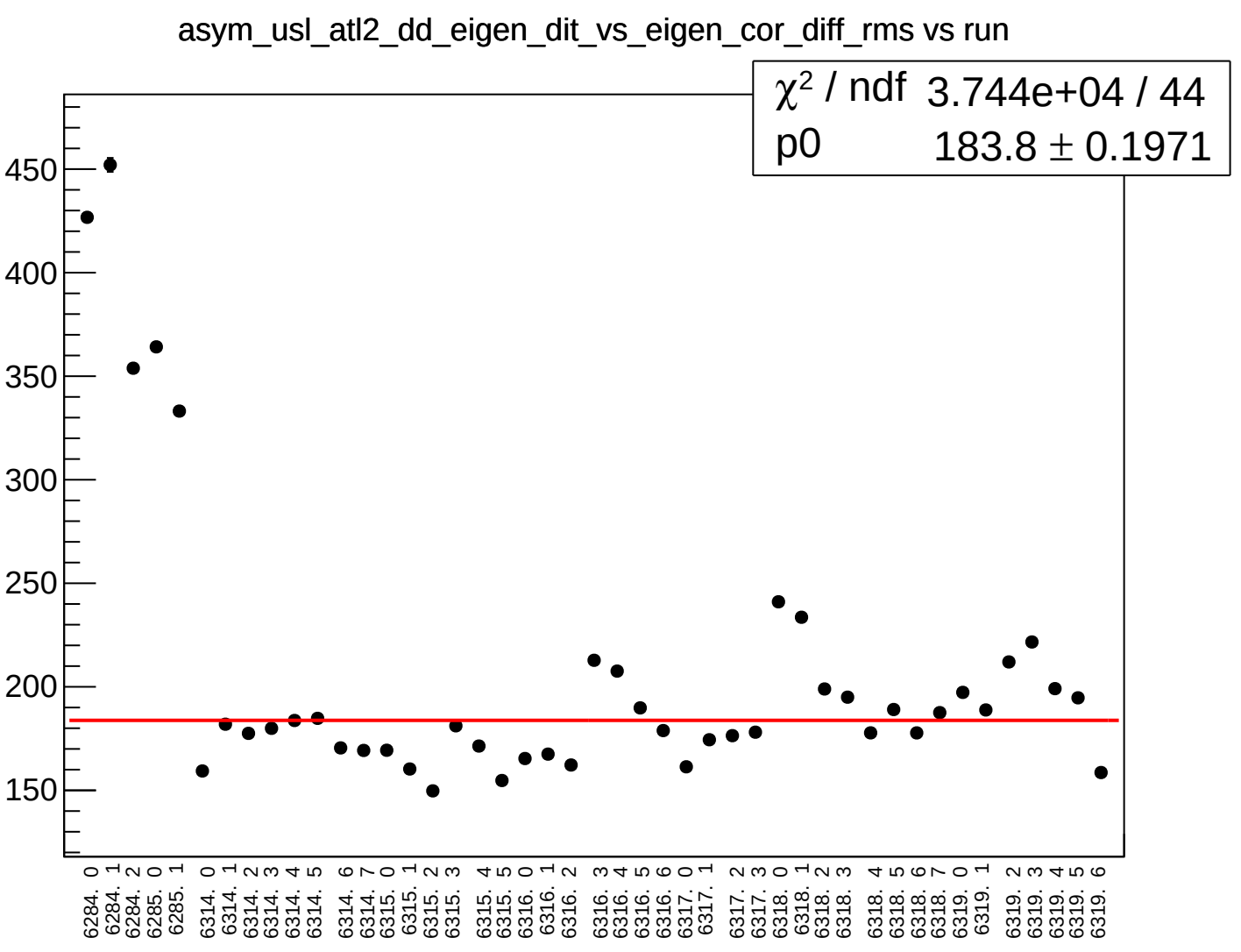
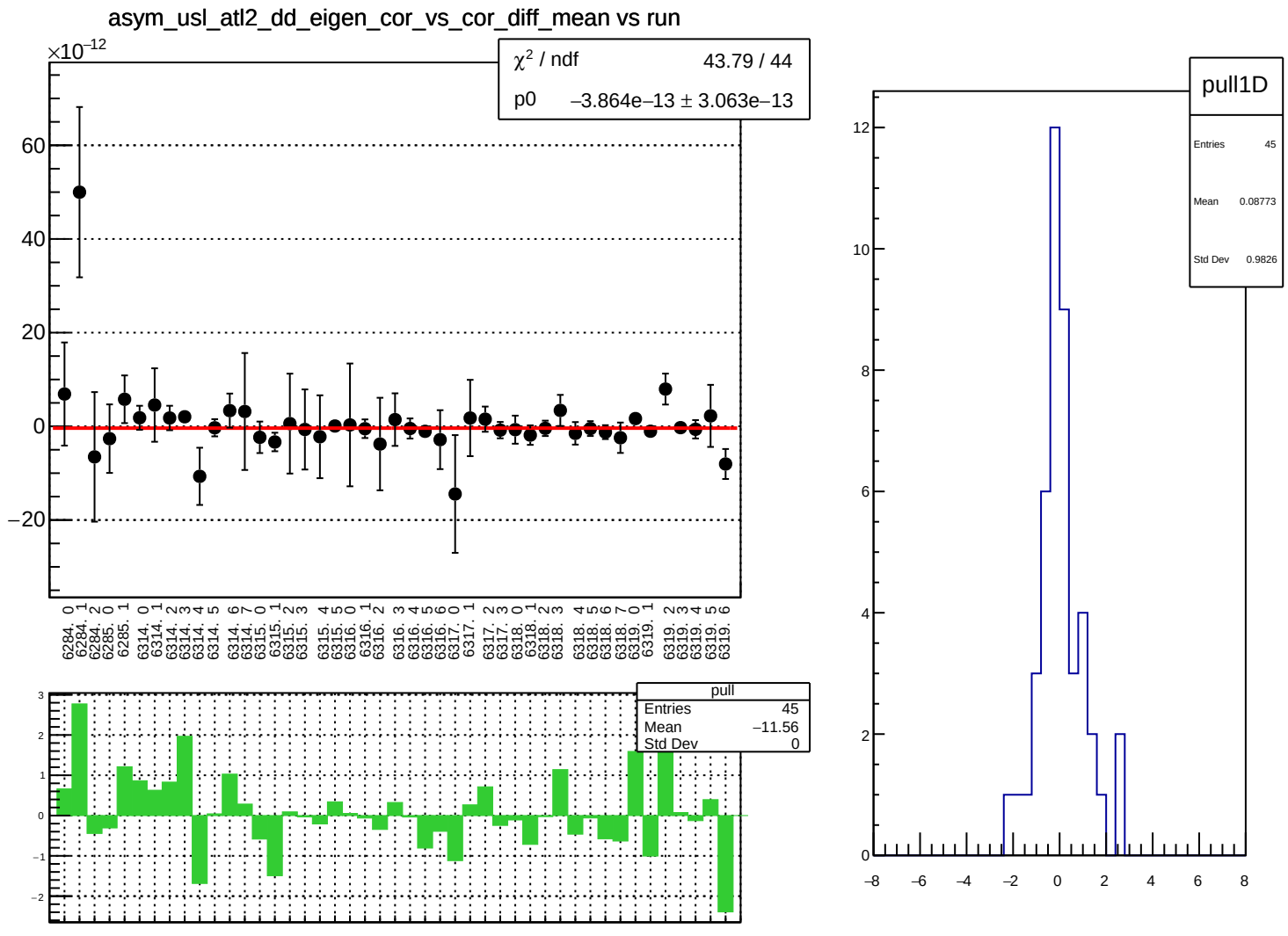

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.39 / 44
p0 −0.2358 ± 0.2787
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −32.22
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.05134
Std Dev 0.9341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 44
p0 183.8 ± 0.1971
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.79 / 44
p0 −3.864e−13 ± 3.063e−13
60
40
20
0
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6315. 0
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6315. 3
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6315. 5
6316. 0
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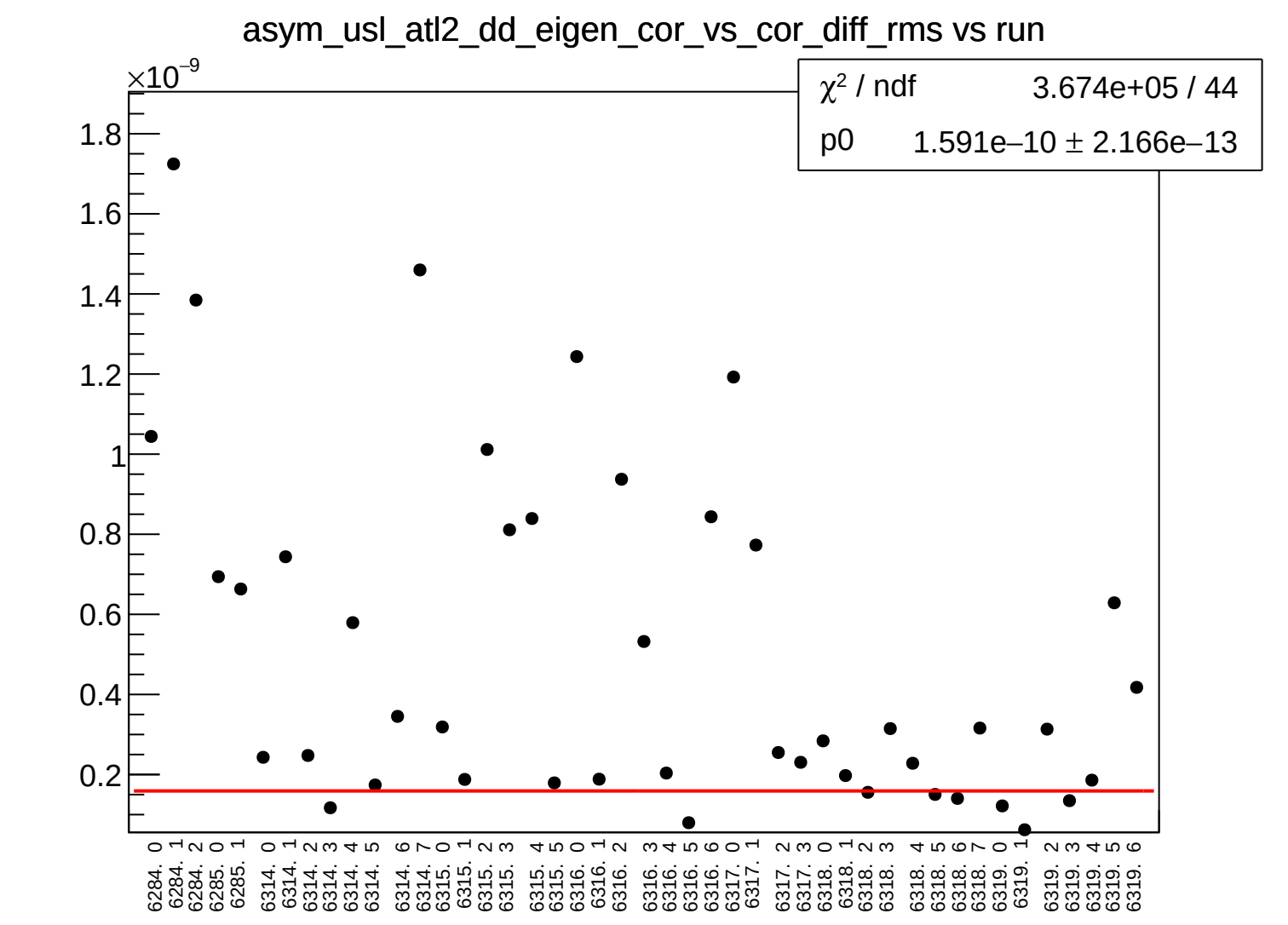
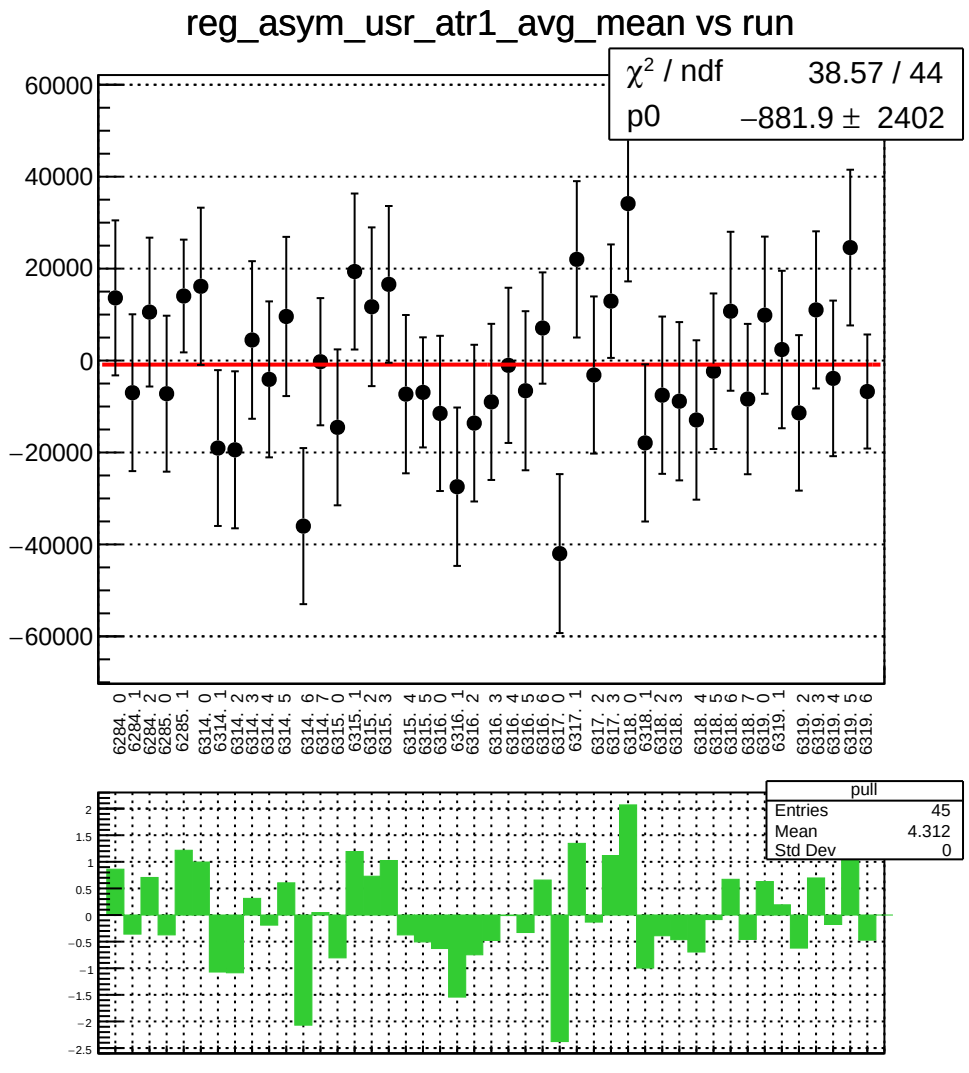
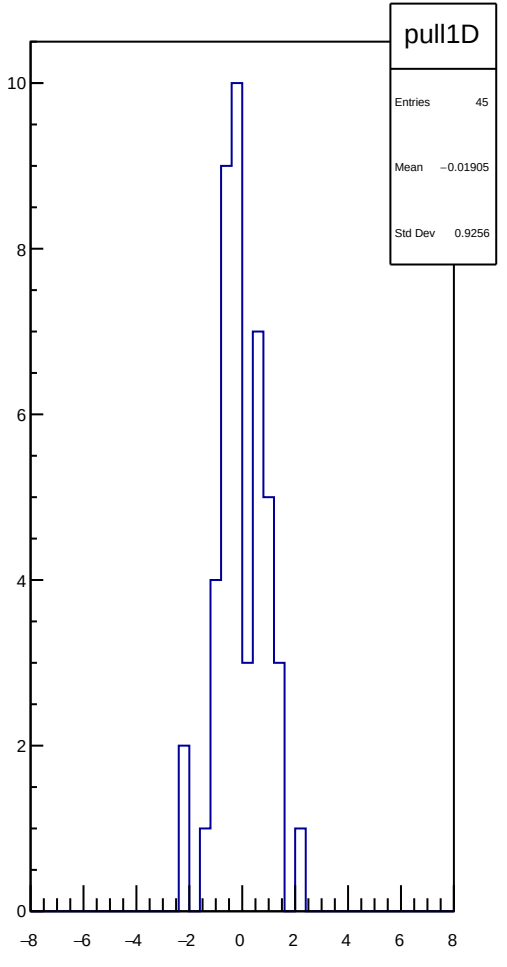
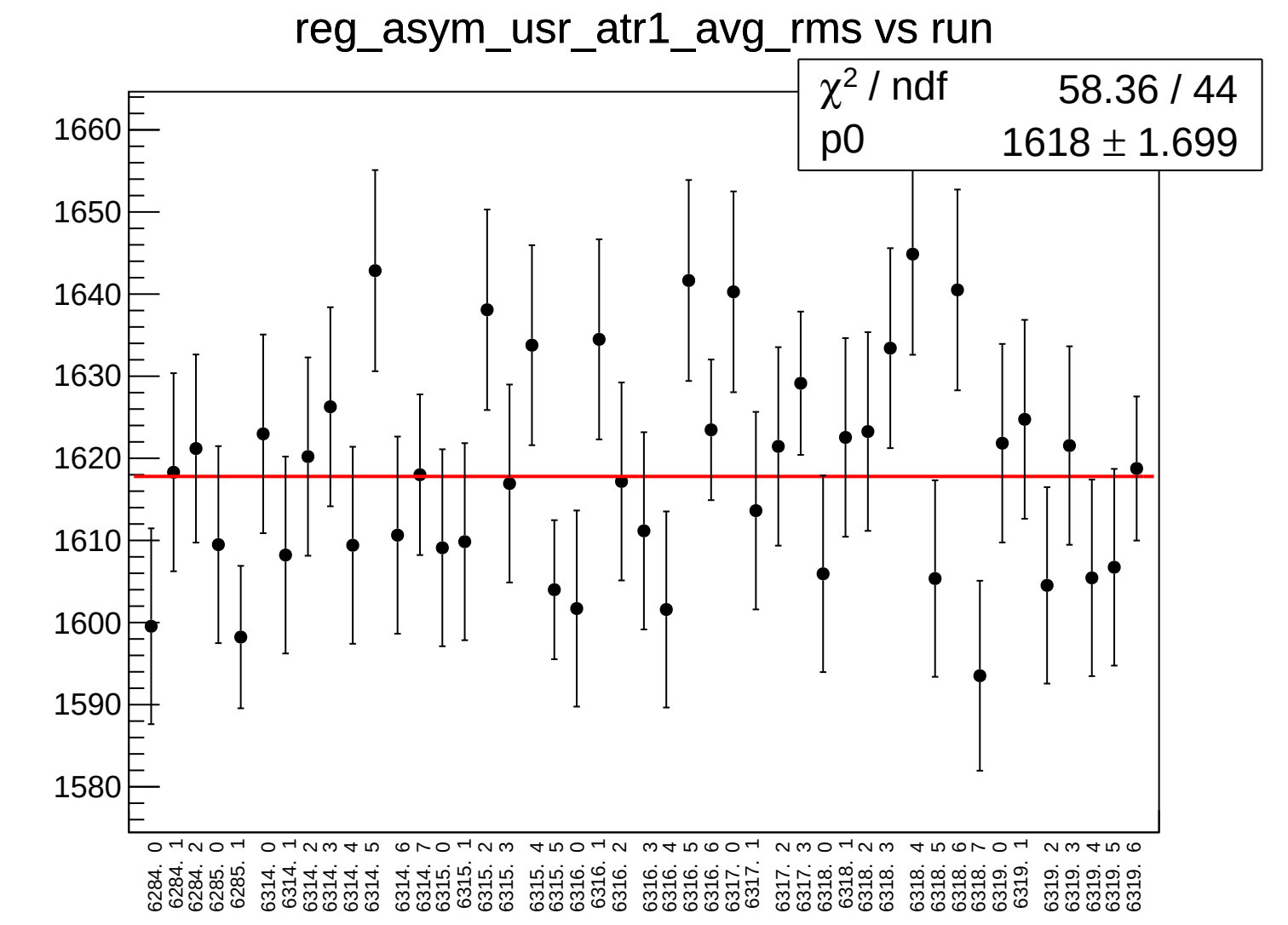
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.56
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.08773
Std Dev 0.9826
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.674e+05 / 44
p0 1.591e−10 ± 2.166e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.57 / 44
p0 −881.9 ± 2402
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.312
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01905
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 58.36 / 44
p0 1618 ± 1.699
1660
1650
1640
1630
1620
1610
1600
1590
1580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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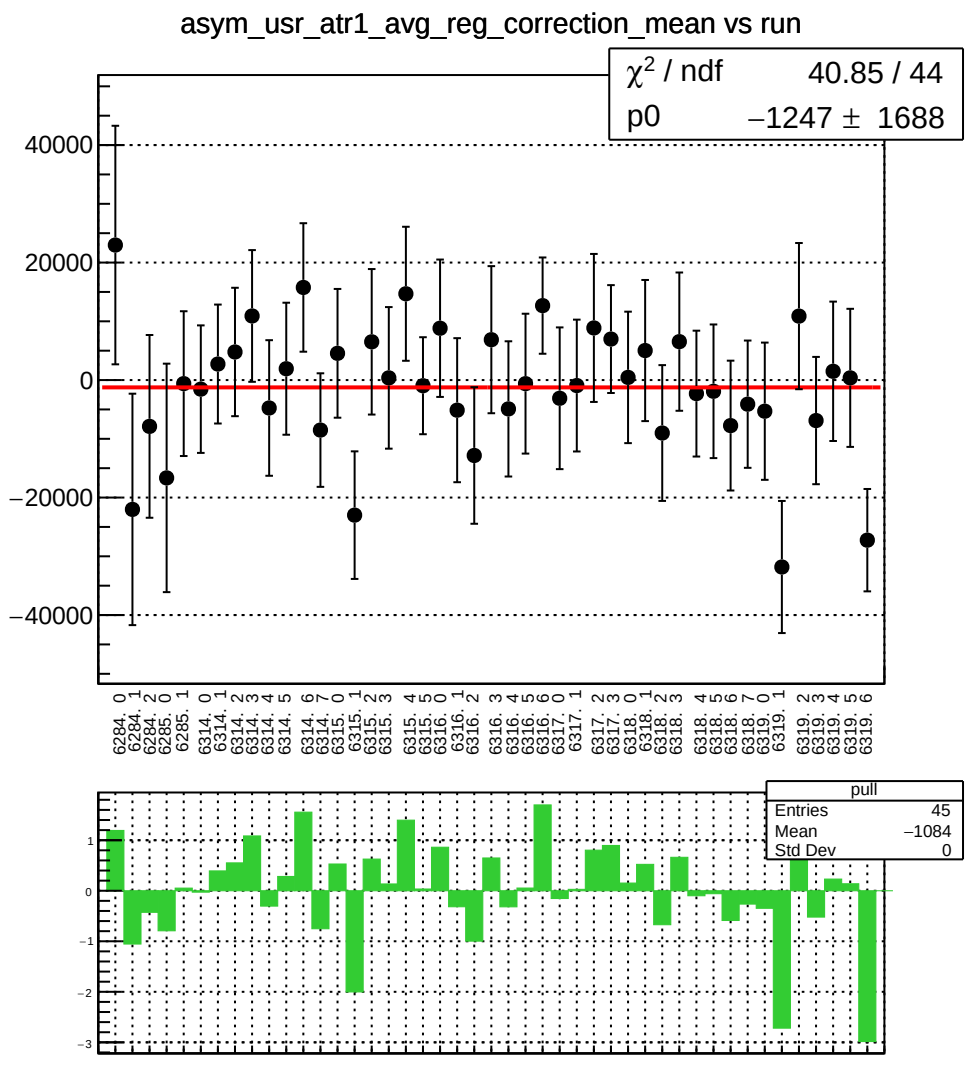
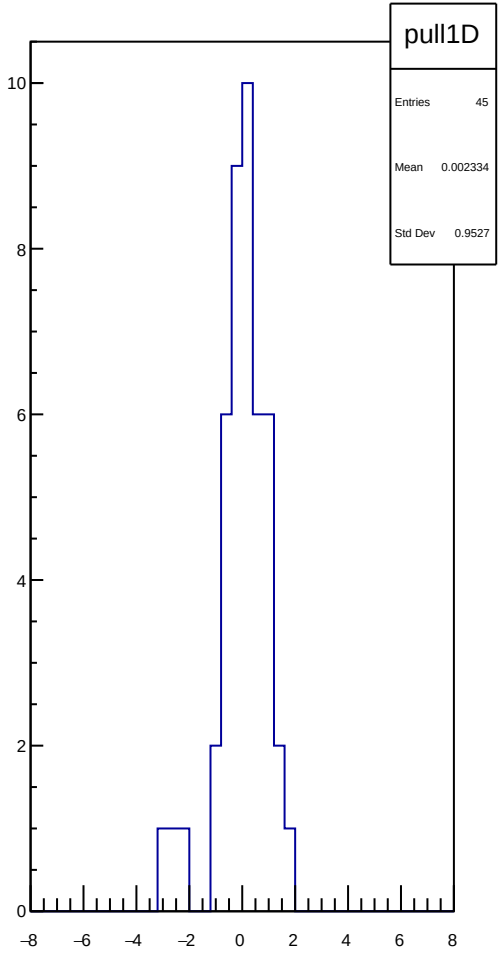
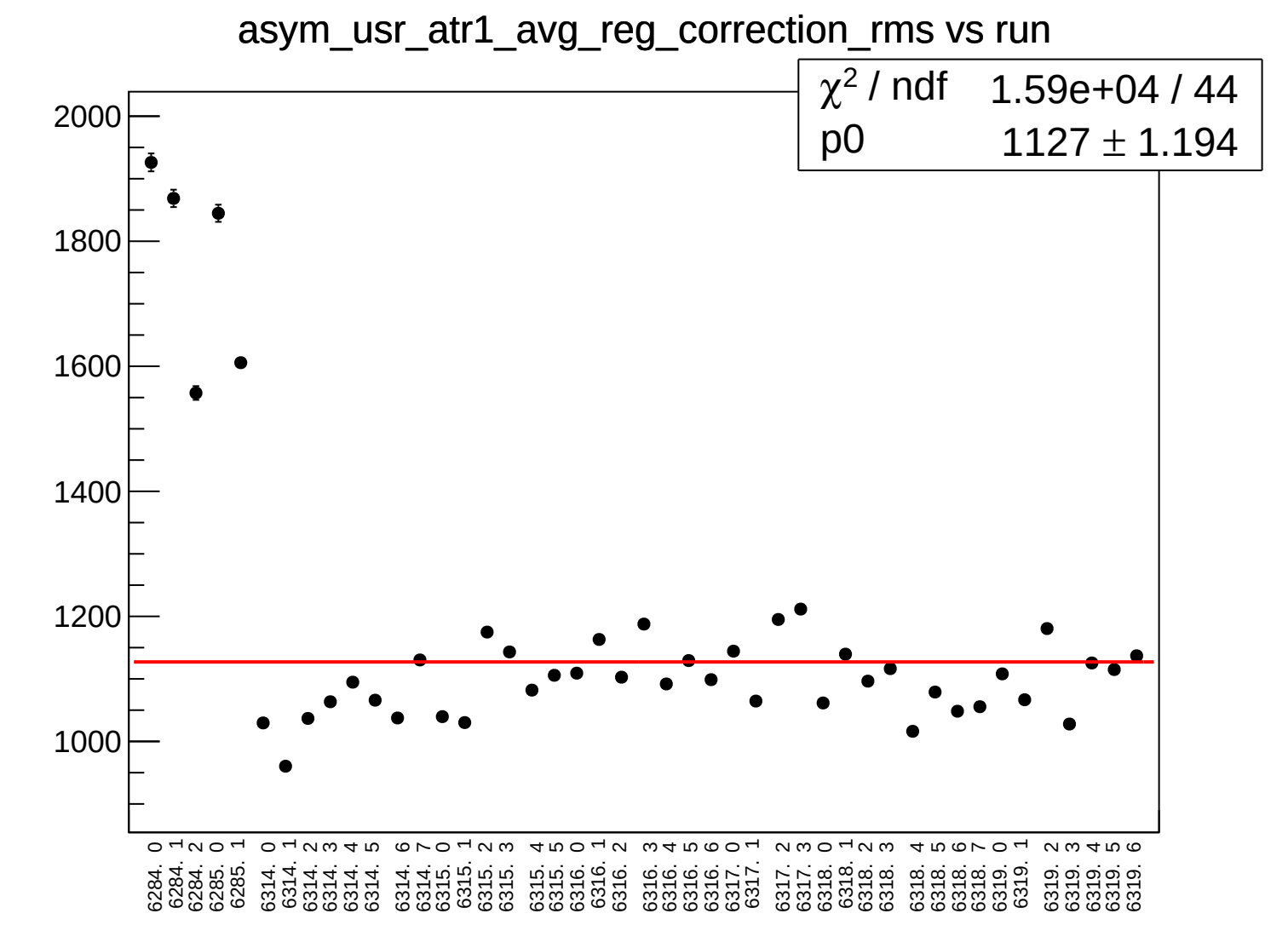
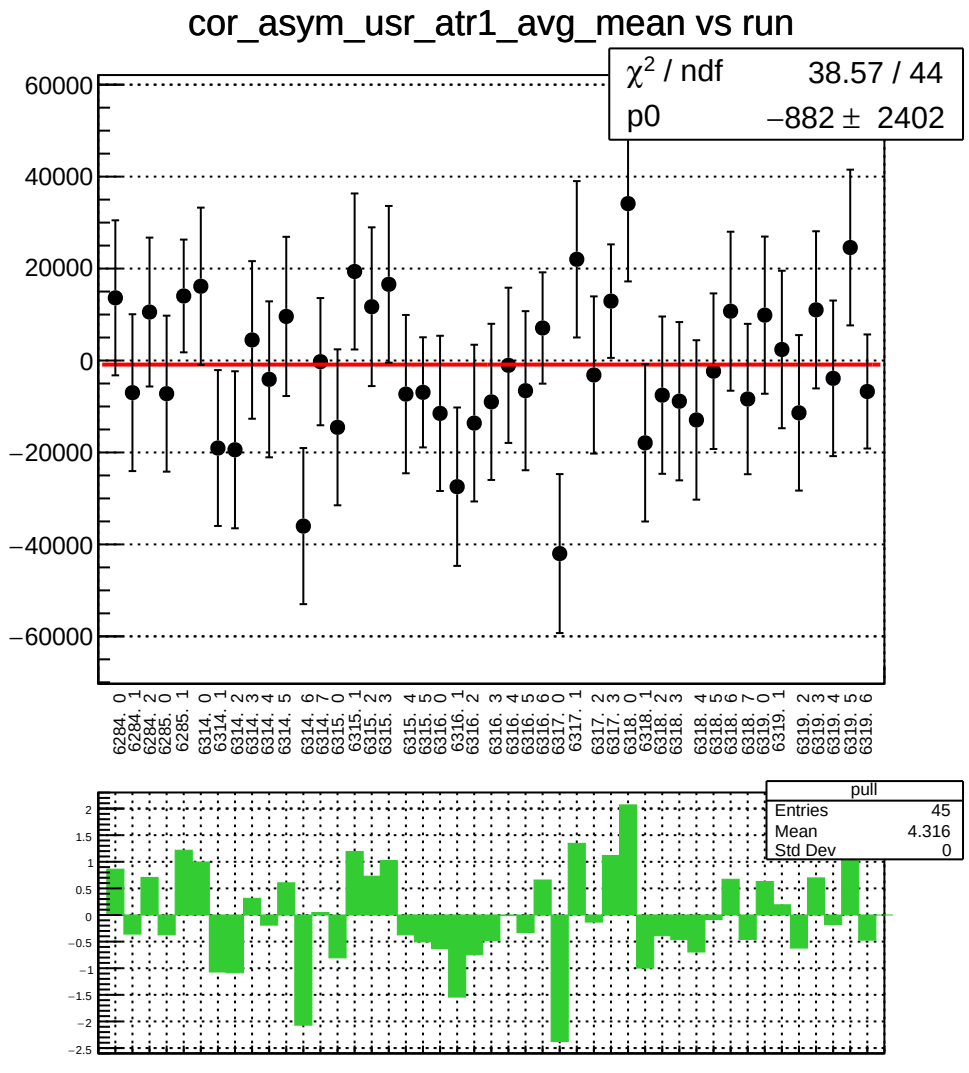
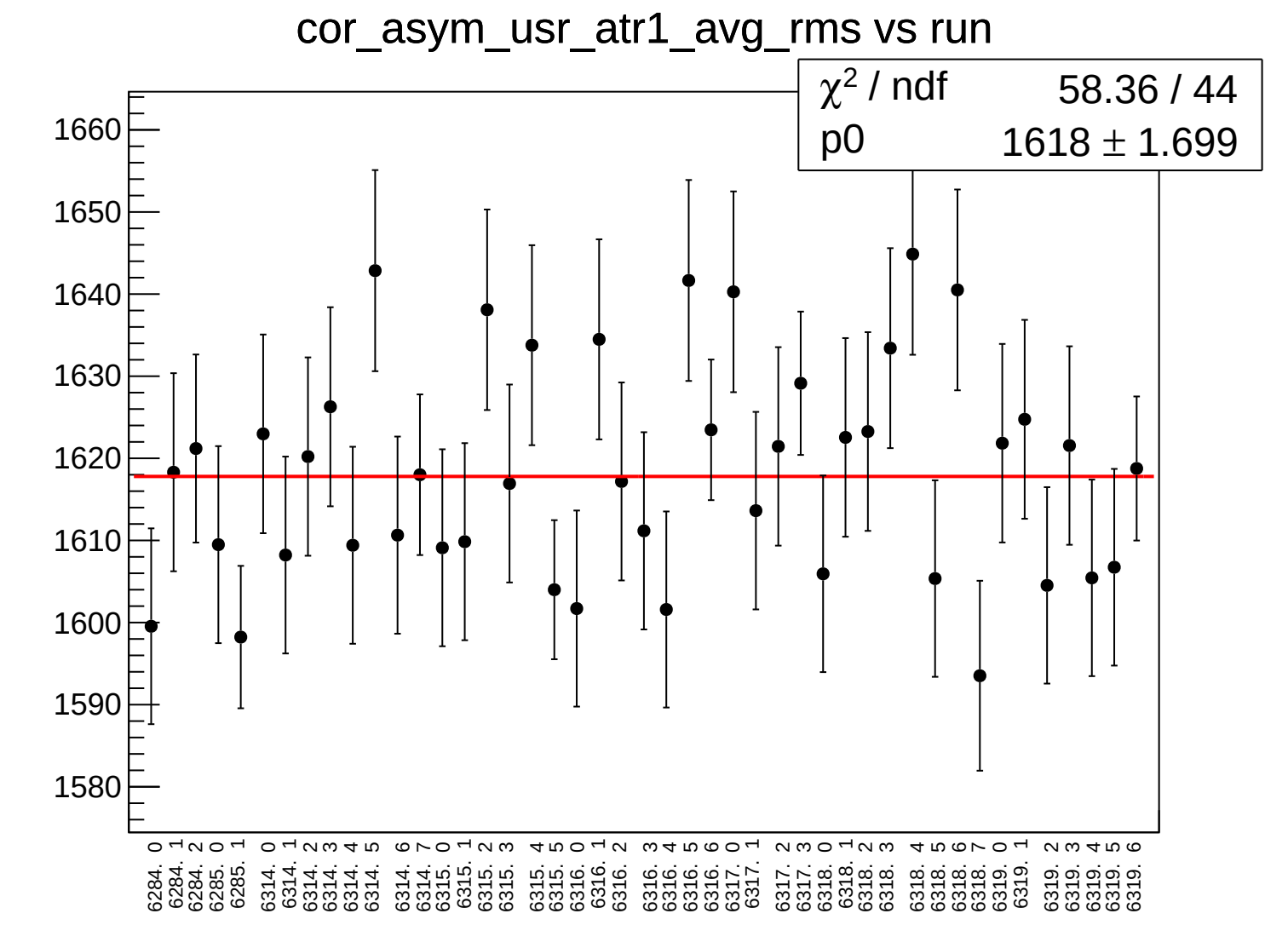
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 40.85 / 44
p0 −1247 ± 1688
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1084
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002334
Std Dev 0.9527
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.59e+04 / 44
p0 1127 ± 1.194
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.57 / 44
p0 −882 ± 2402
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01905
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 58.36 / 44
p0 1618 ± 1.699
1660
1650
1640
1630
1620
1610
1600
1590
1580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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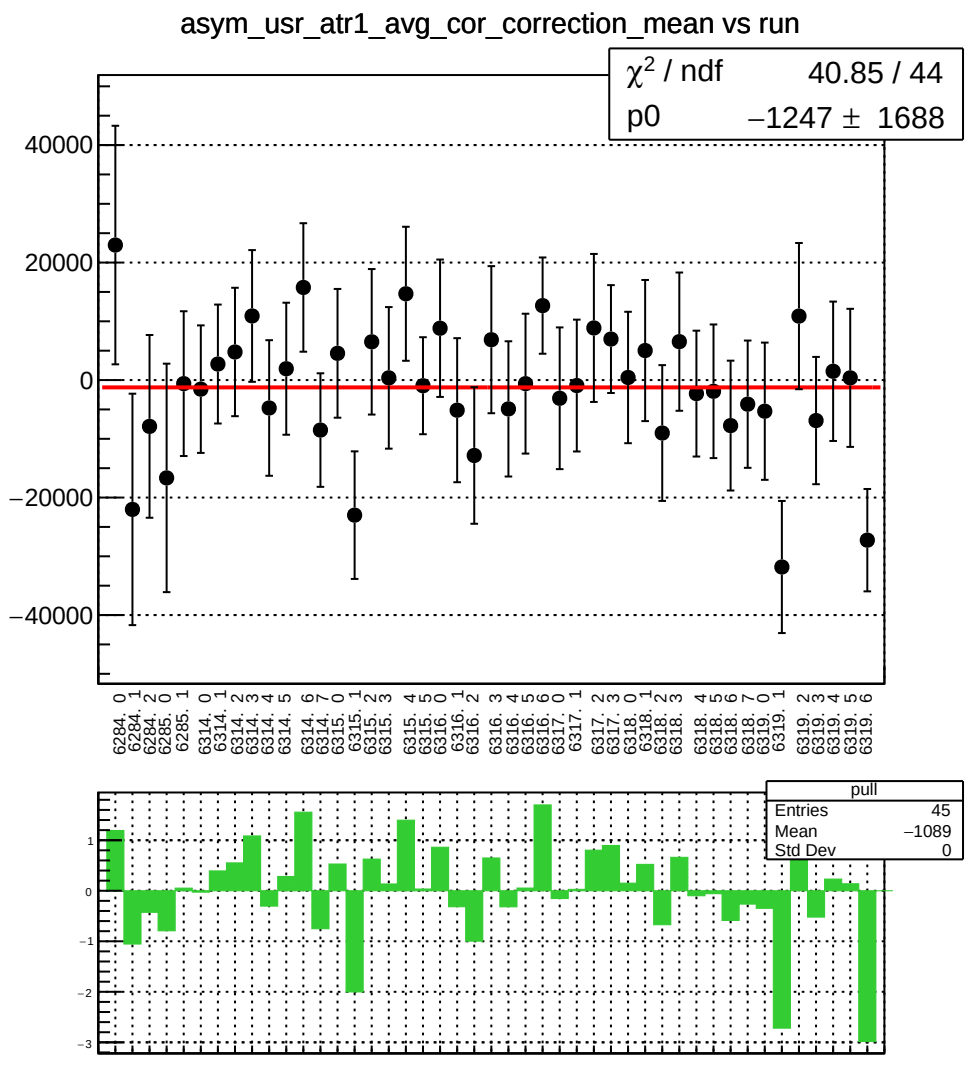
asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 40.85 / 44
p0 −1247 ± 1688
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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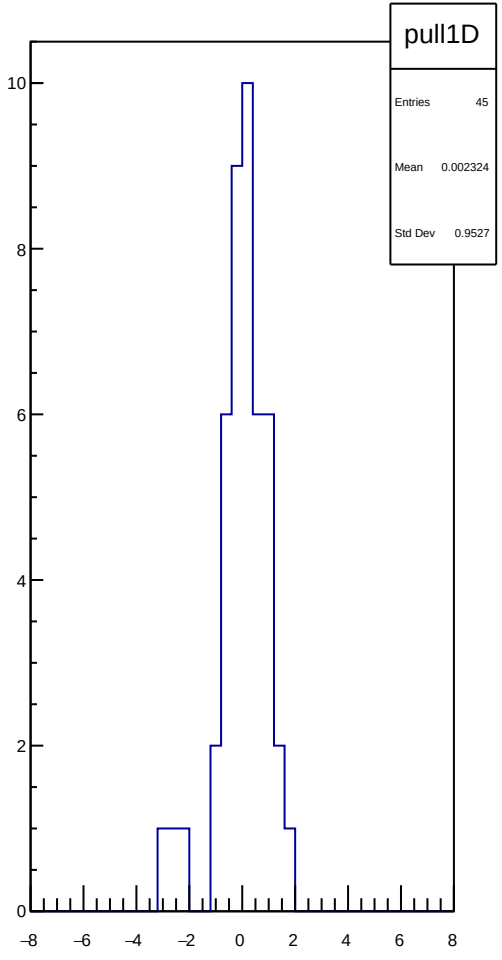
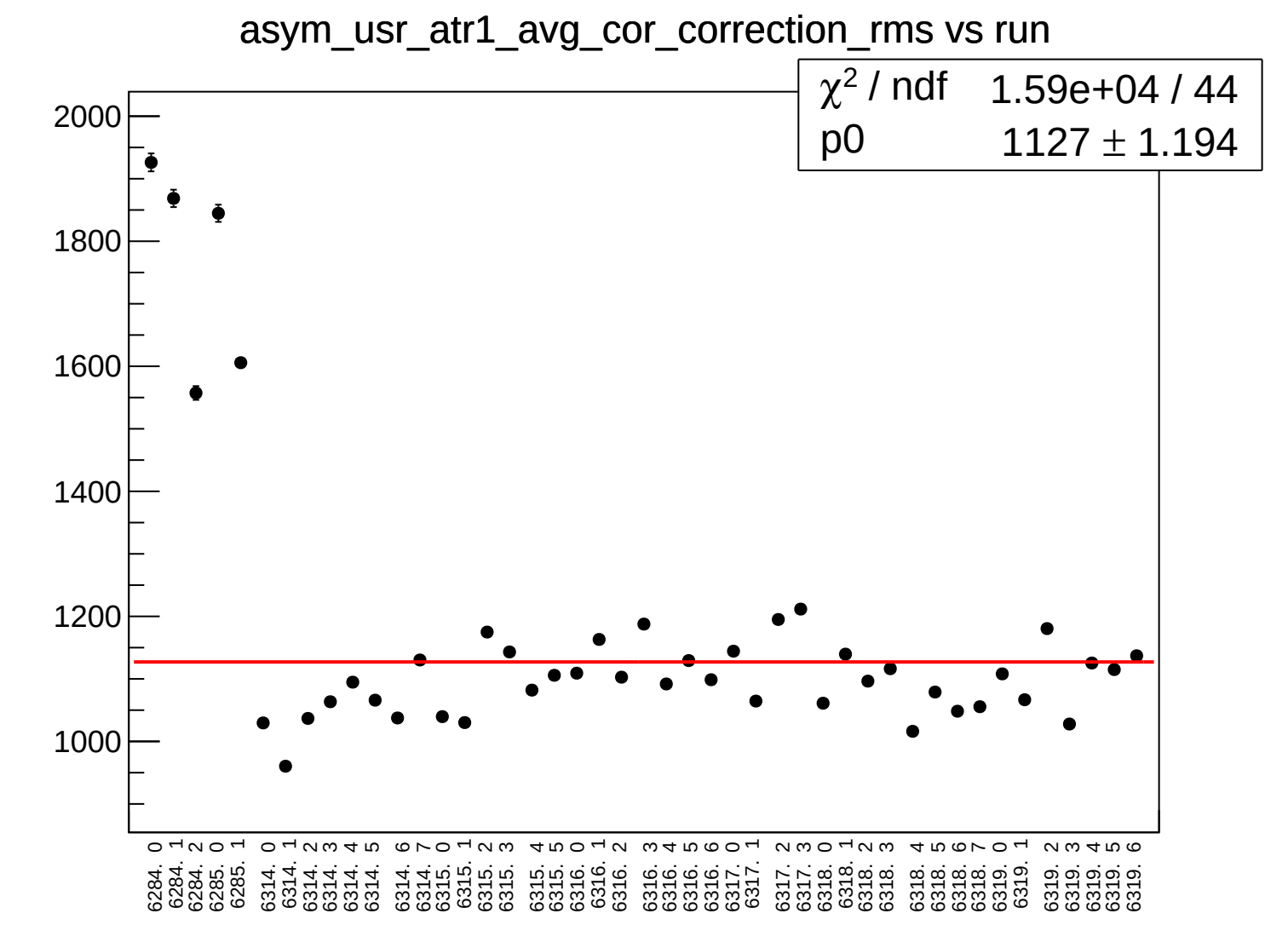
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1089
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002324
Std Dev 0.9527
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.59e+04 / 44
p0 1127 ± 1.194
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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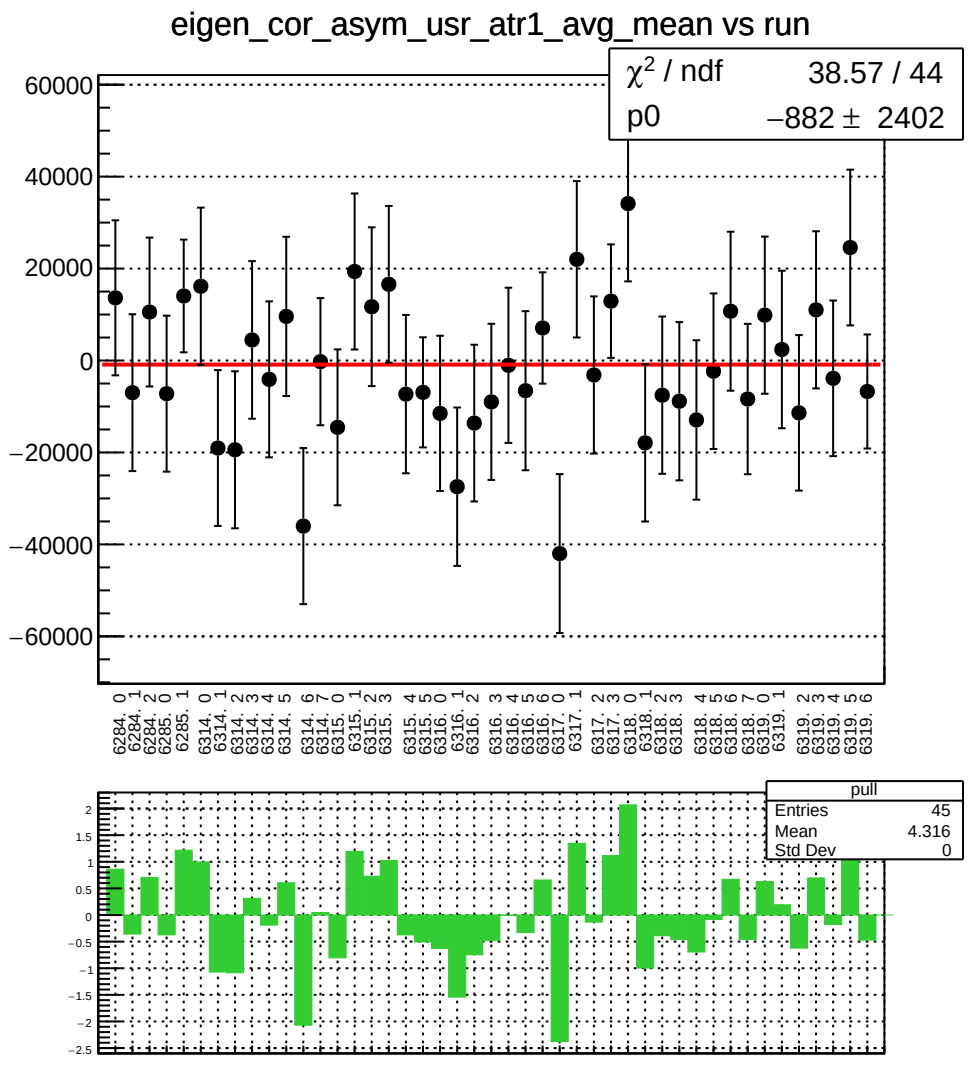
6319. 5
6319. 6


eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.57 / 44
p0 −882 ± 2402
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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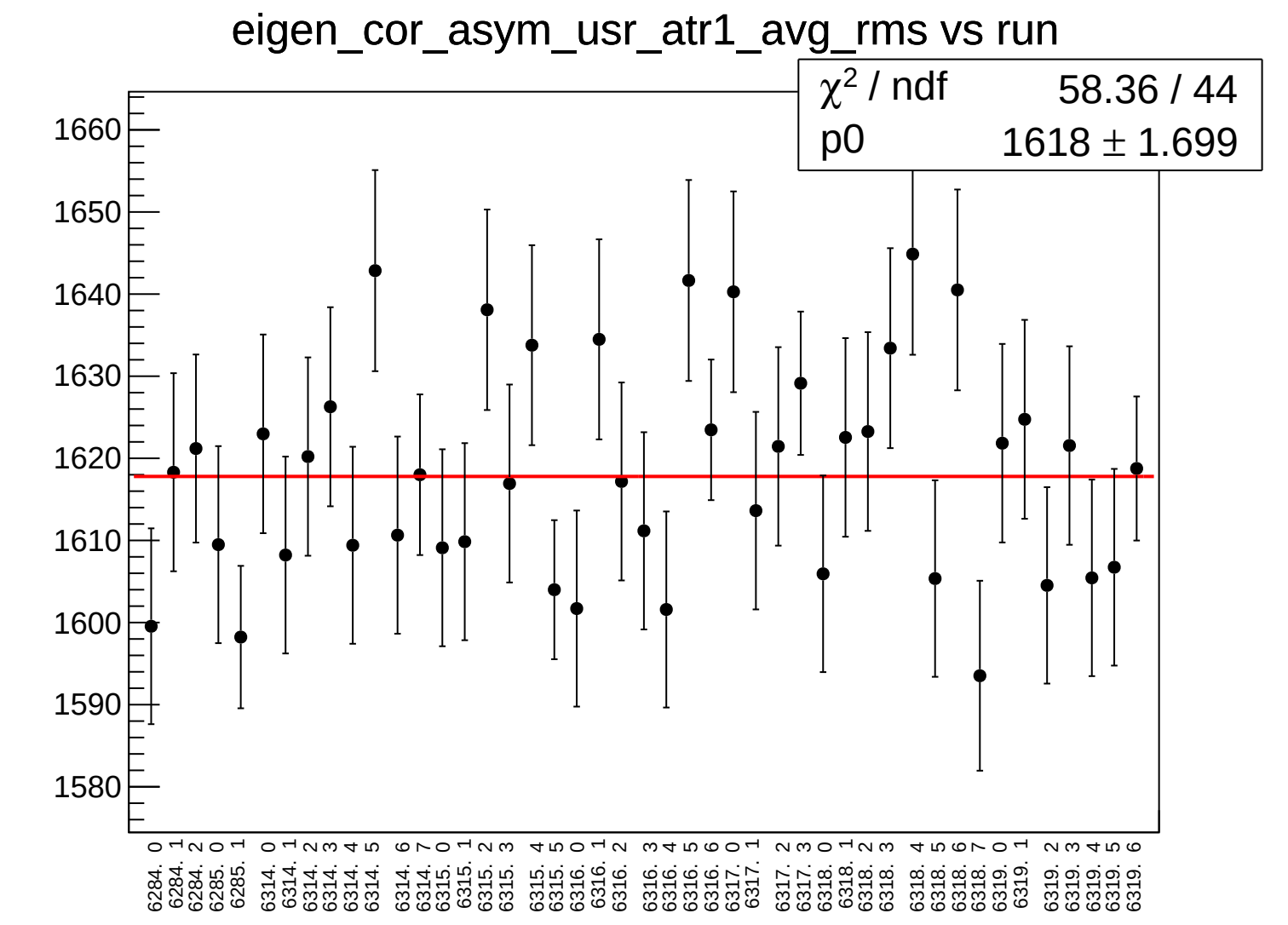
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01905
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 58.36 / 44
p0 1618 ± 1.699
1660
1650
1640
1630
1620
1610
1600
1590
1580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6318. 0
6318. 1
6318. 2
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6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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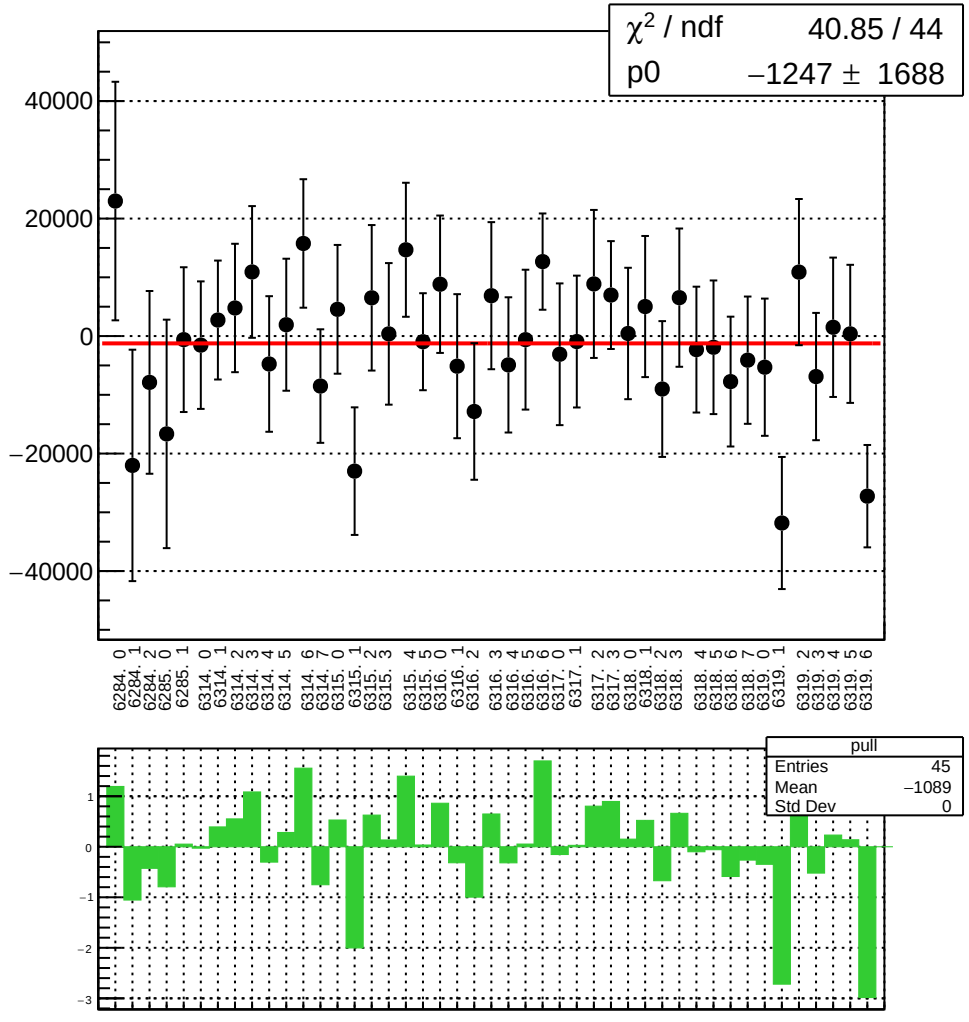
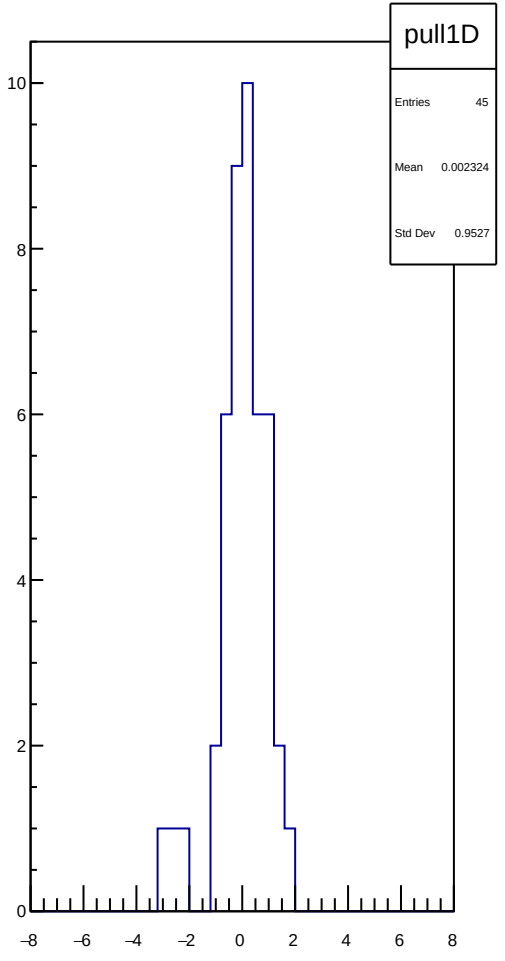
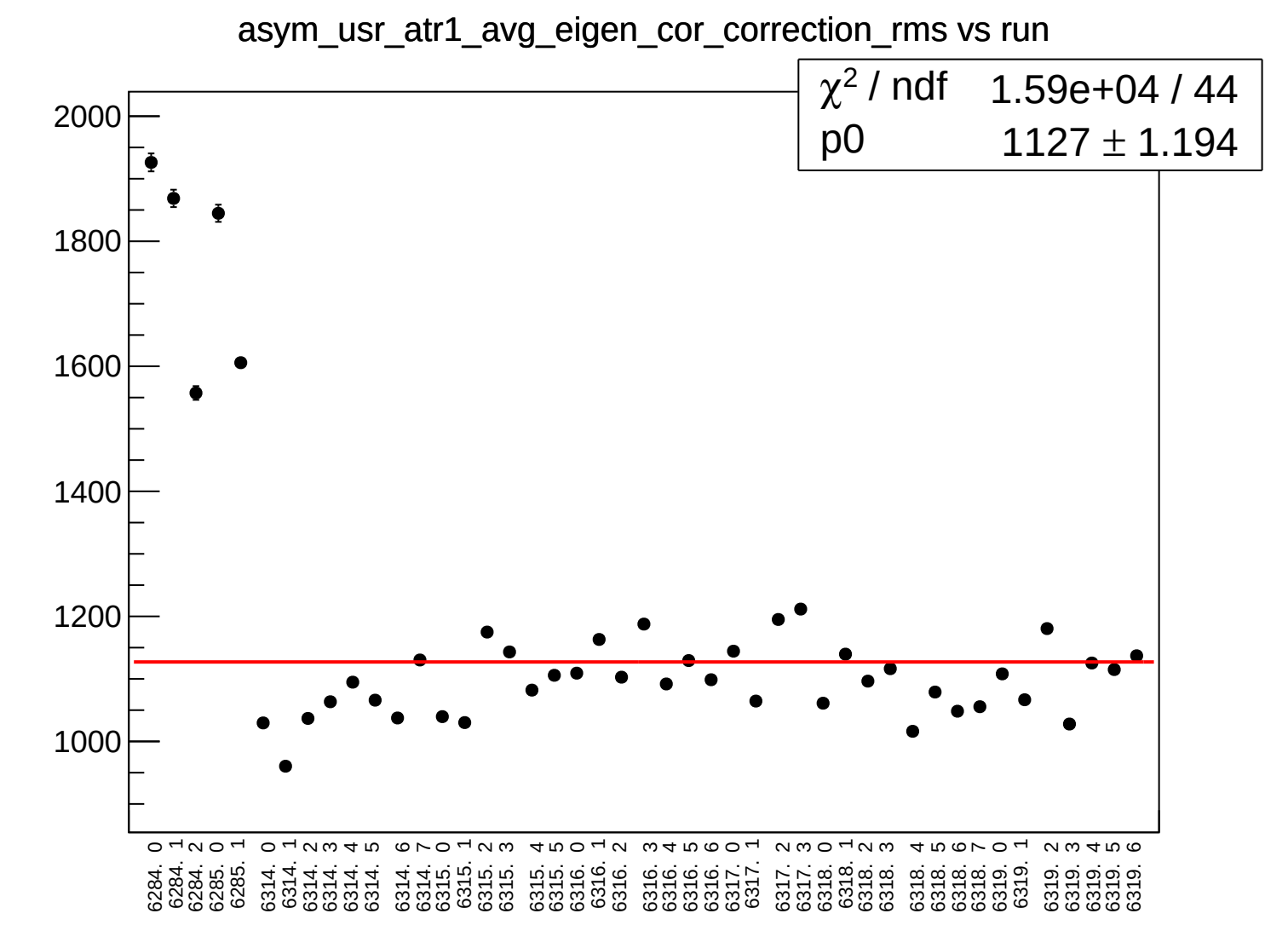
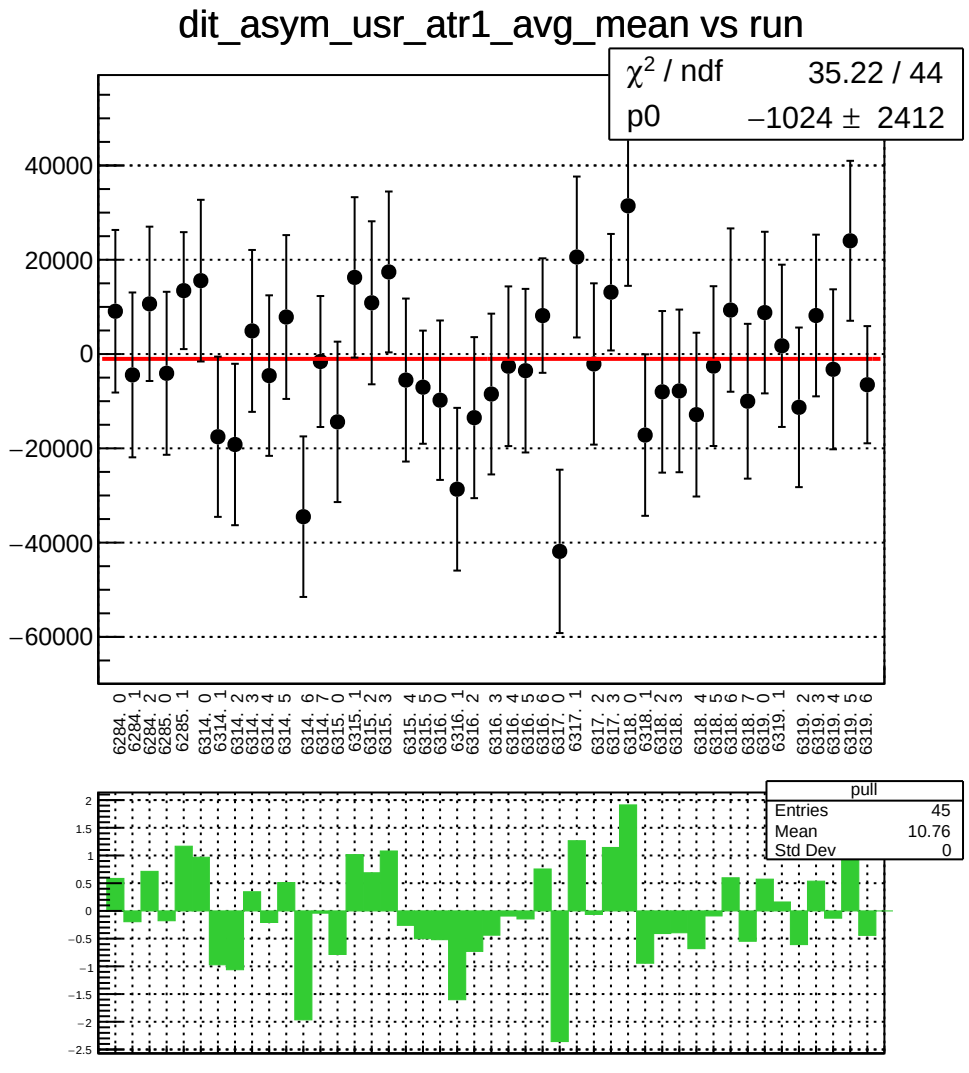
6319. 3
6319. 4
6319. 5
6319. 6

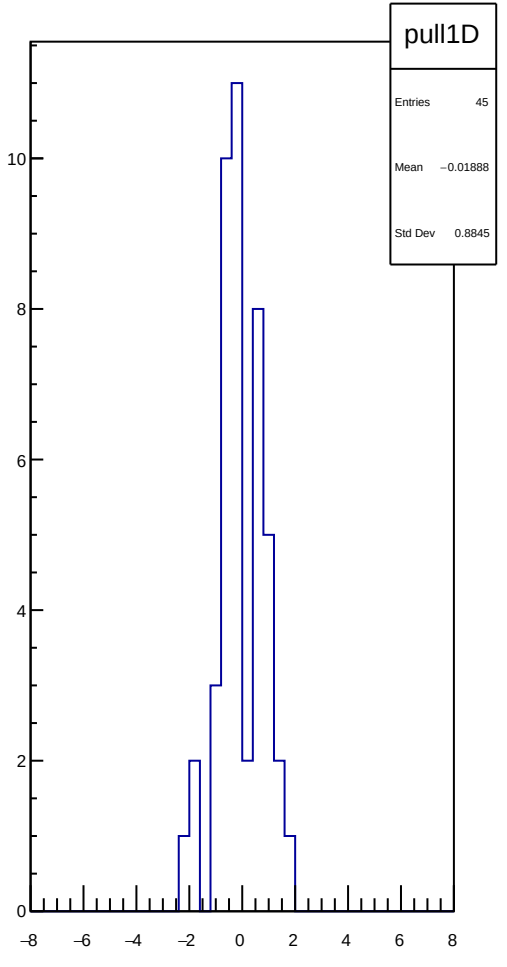
asym_usr_atr1_avg_eigen_cor_correction_mean vs run

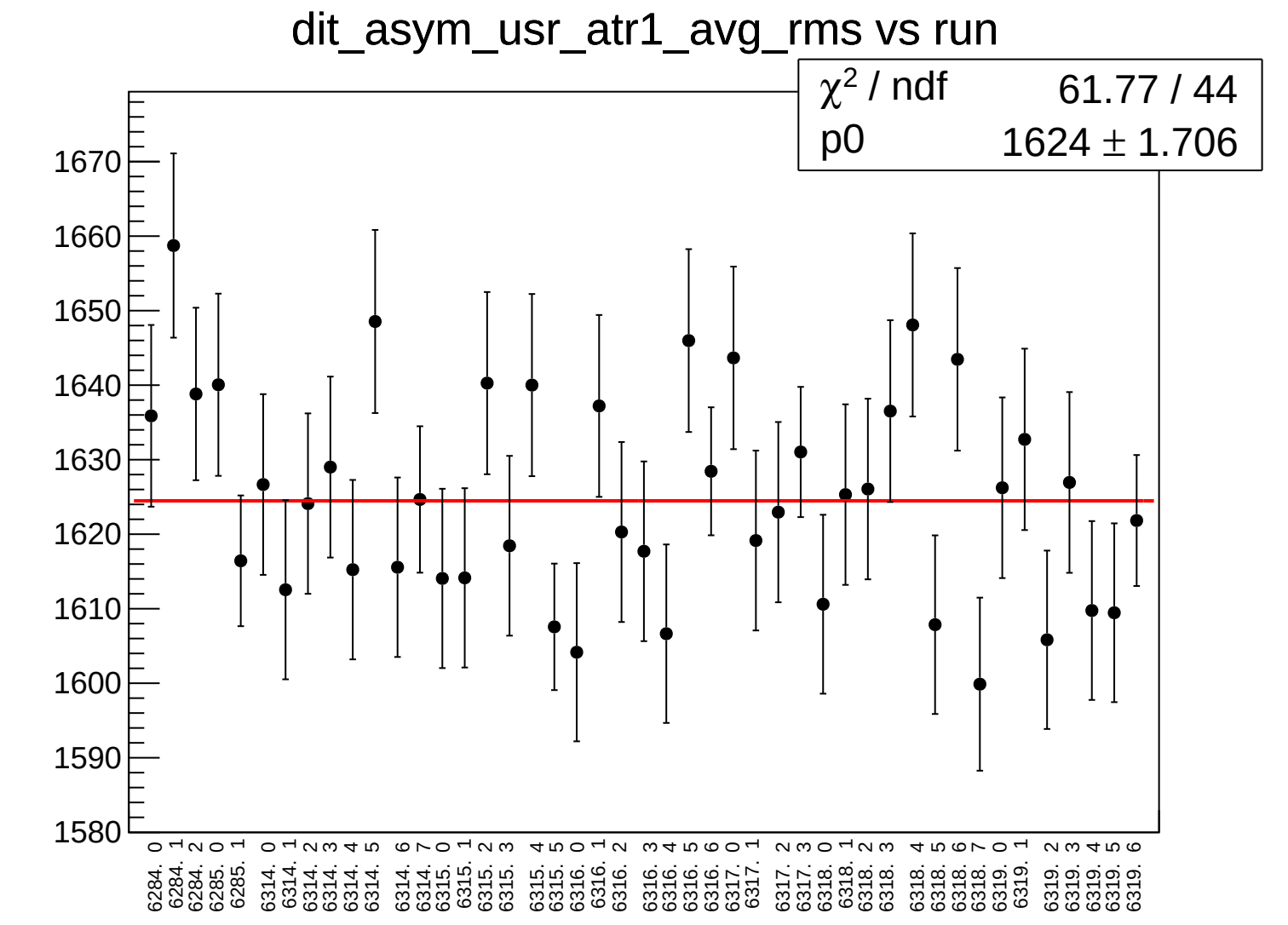


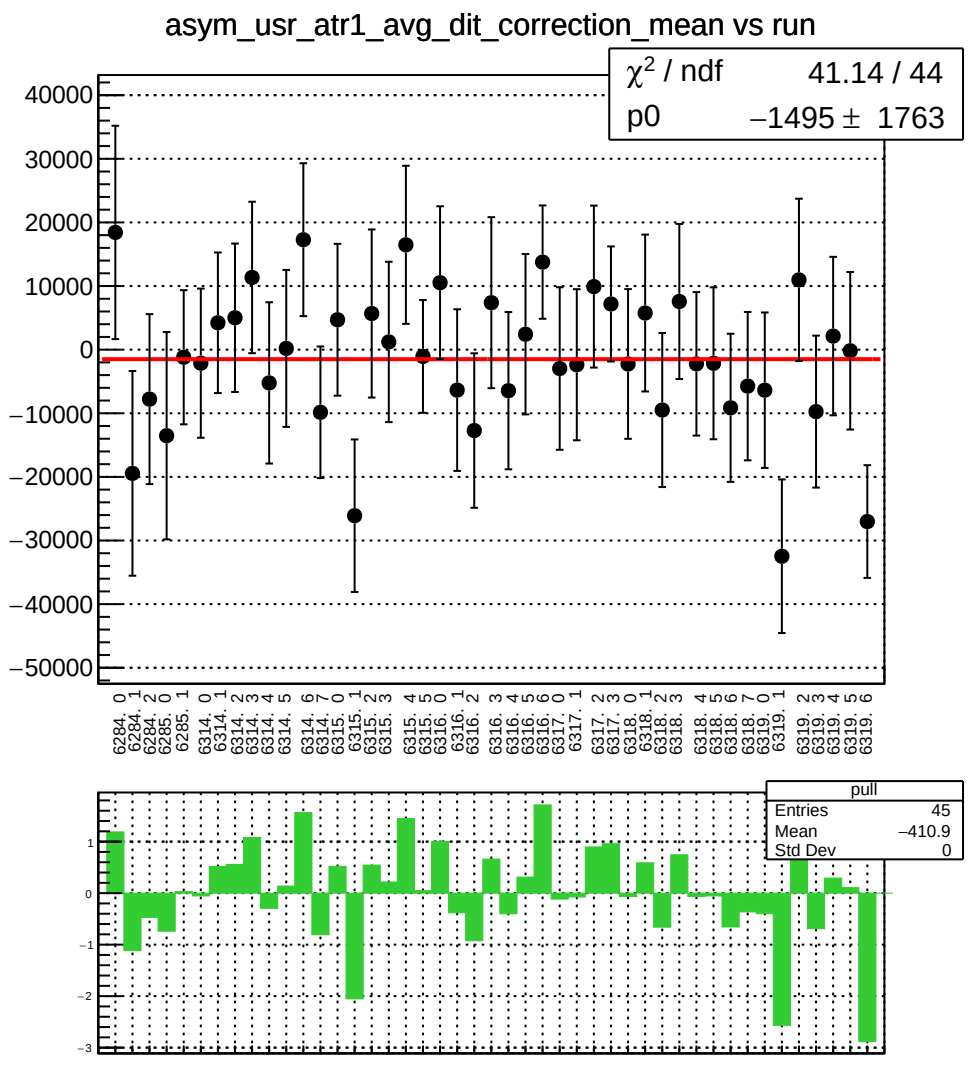


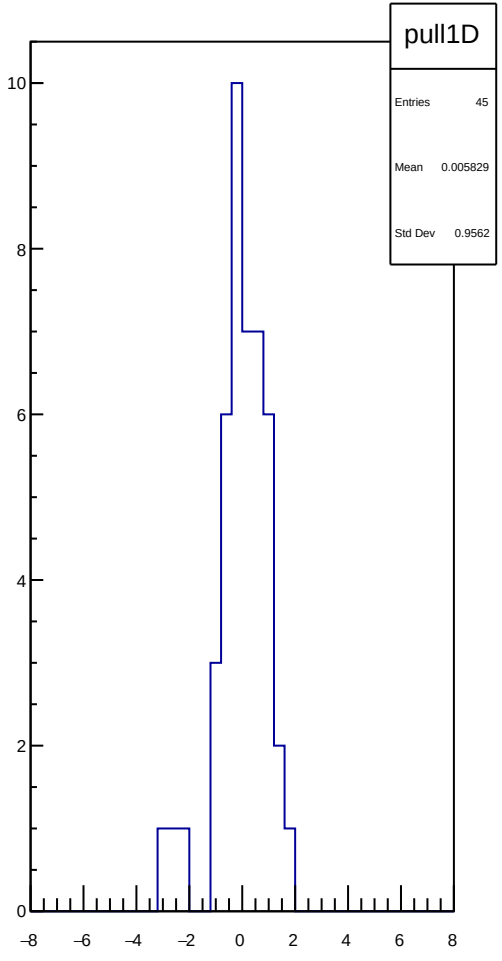

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.59e+04 / 44
p0 1127 ± 1.194
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

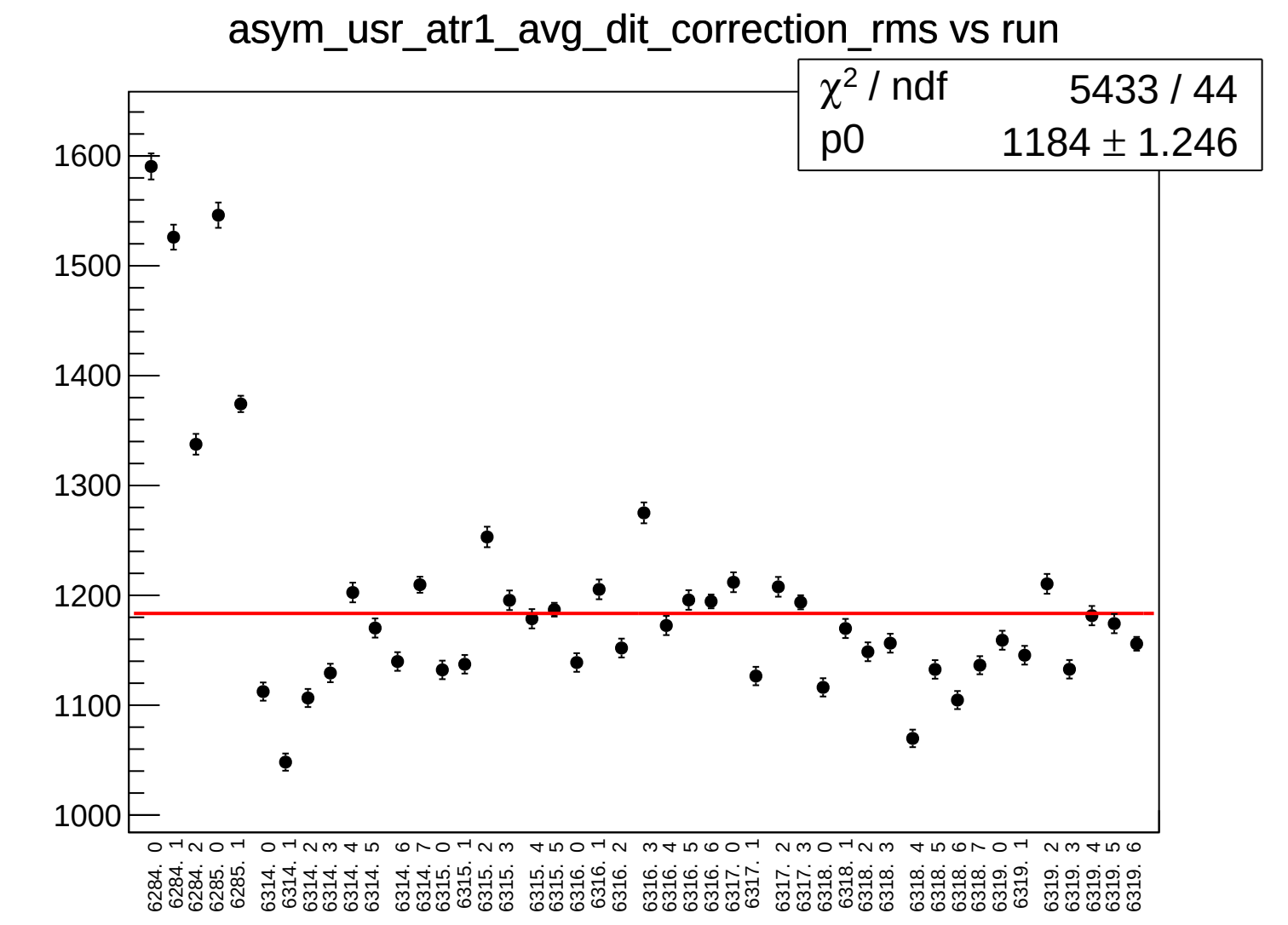

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 35.22 / 44
p0 −1024 ± 2412
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

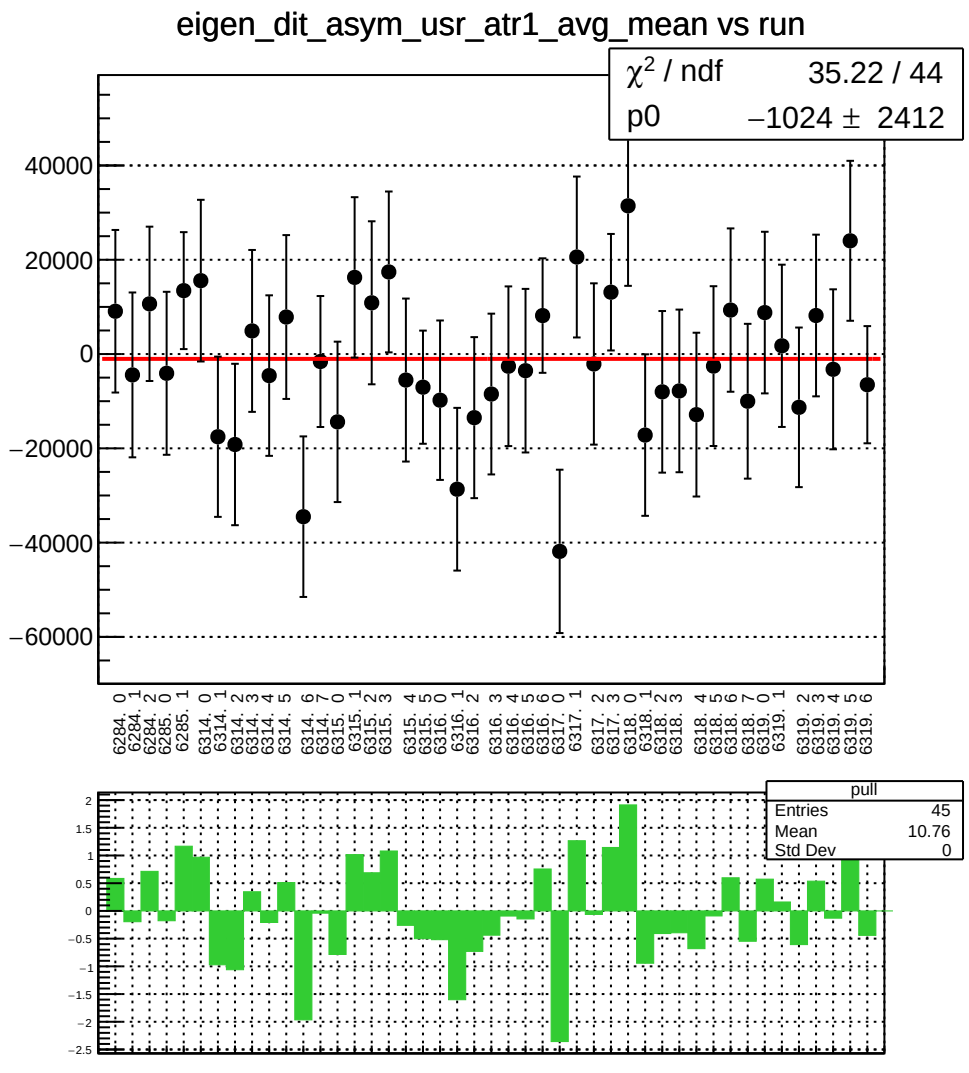

pull1D
Entries 45
Mean −0.01888
Std Dev 0.8845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

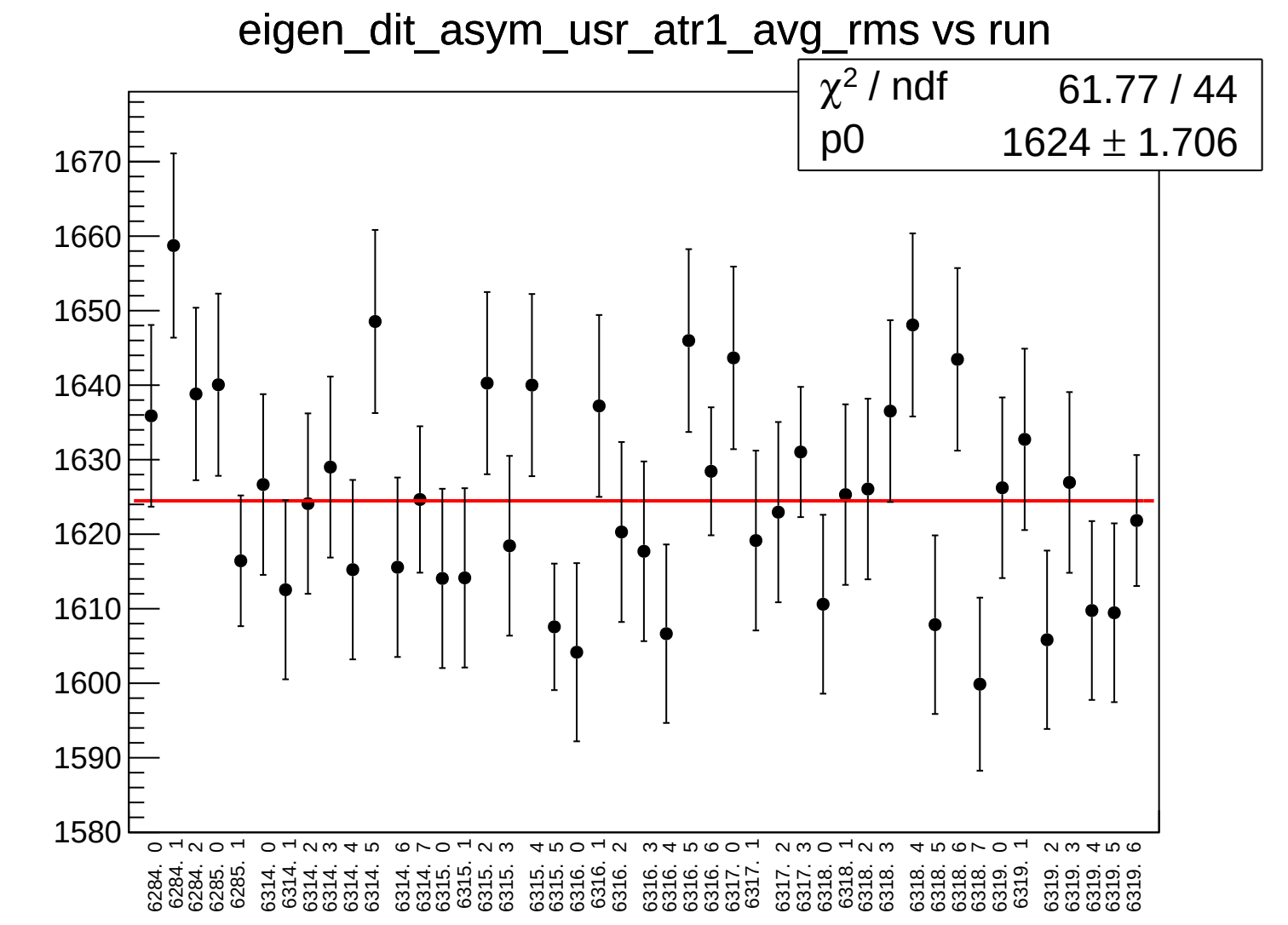

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 61.77 / 44
p0 1624 ± 1.706
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

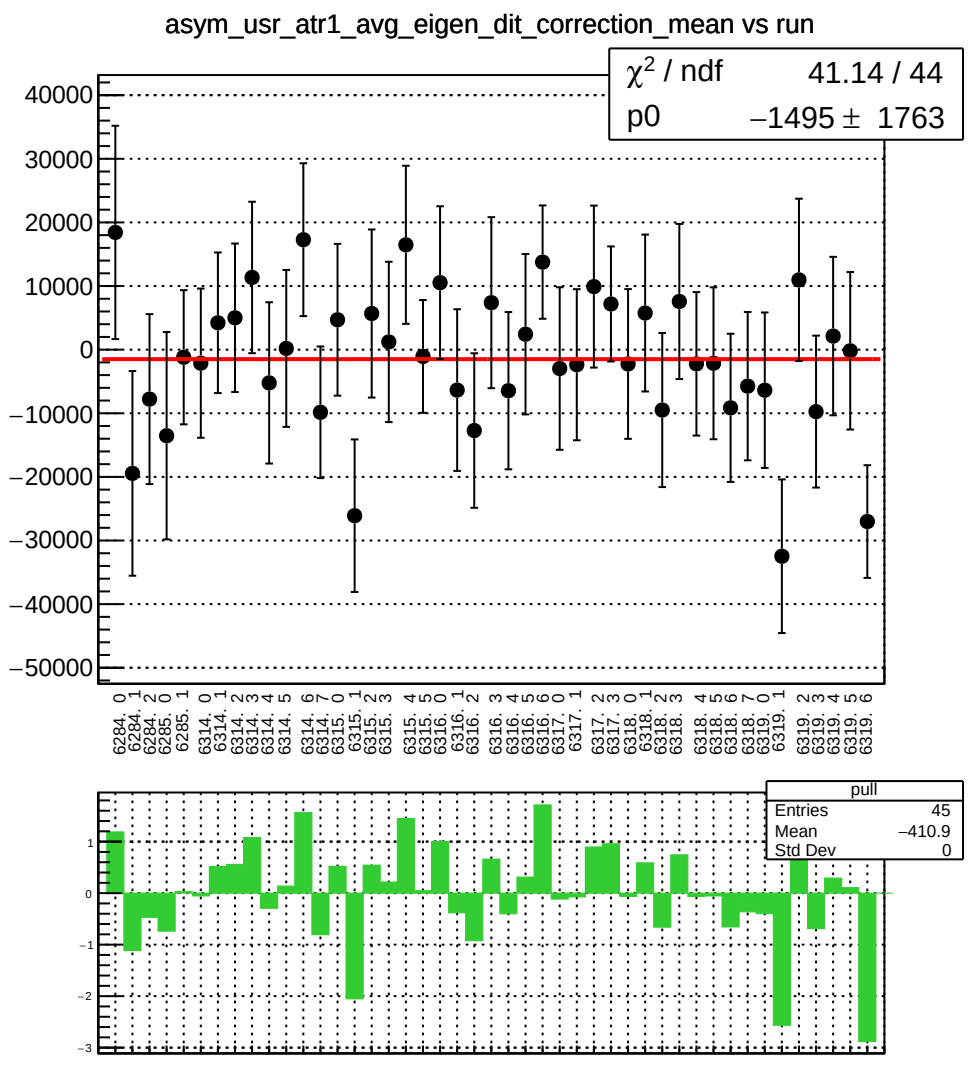

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 41.14 / 44
p0 −1495 ± 1763
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −410.9
Std Dev 0
1
0
−1
−2
−3

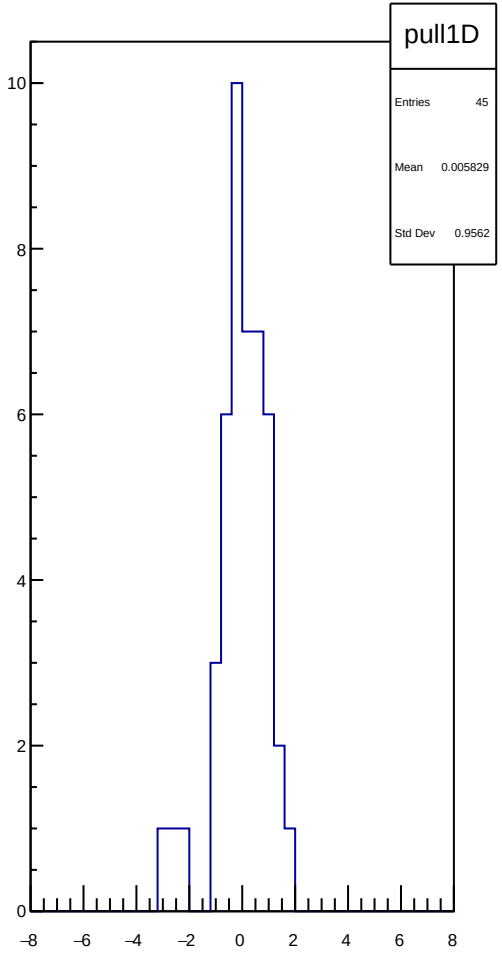

pull1D
Entries 45
Mean 0.005829
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

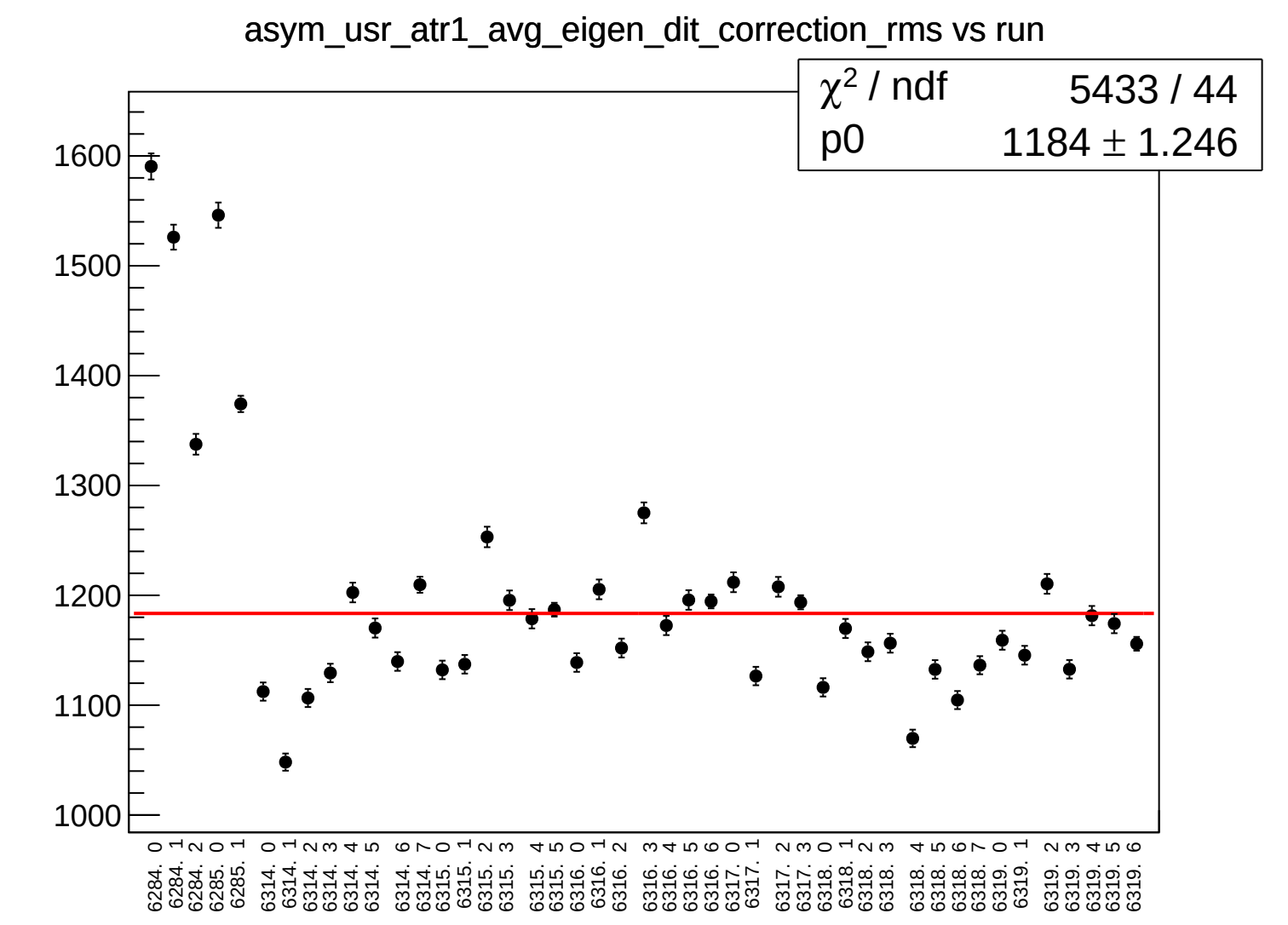

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5433 / 44
p0 1184 ± 1.246
1600
1500
1400
1300
1200
1100
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

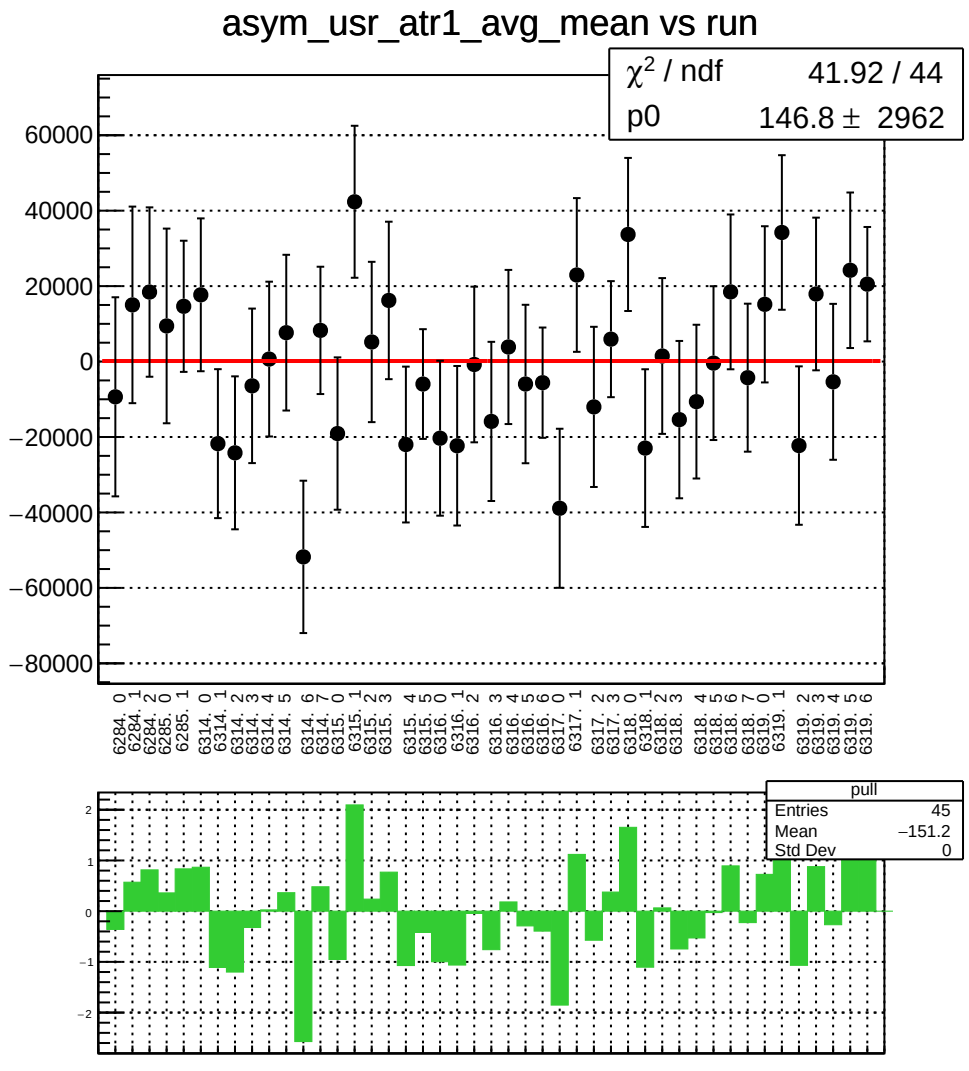

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 35.22 / 44
p0 −1024 ± 2412
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01888
Std Dev 0.8845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

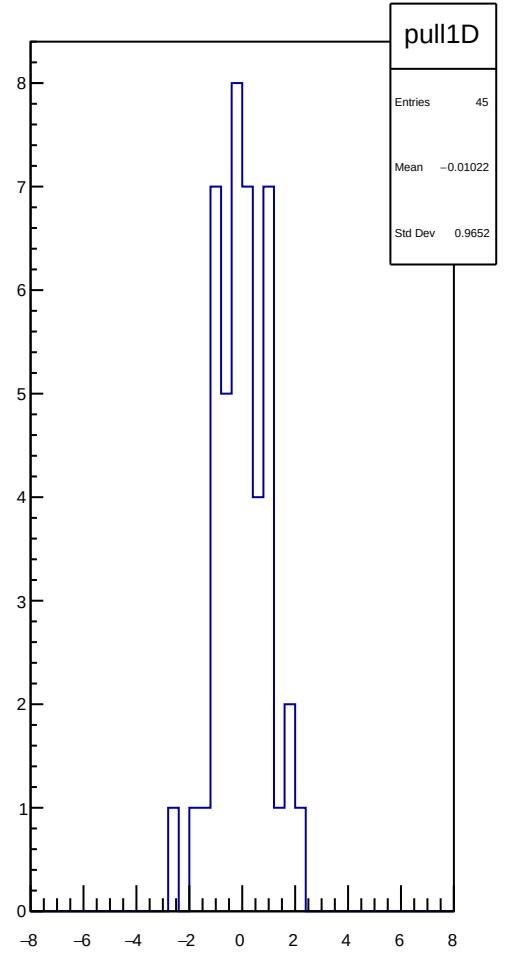

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 61.77 / 44
p0 1624 ± 1.706
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

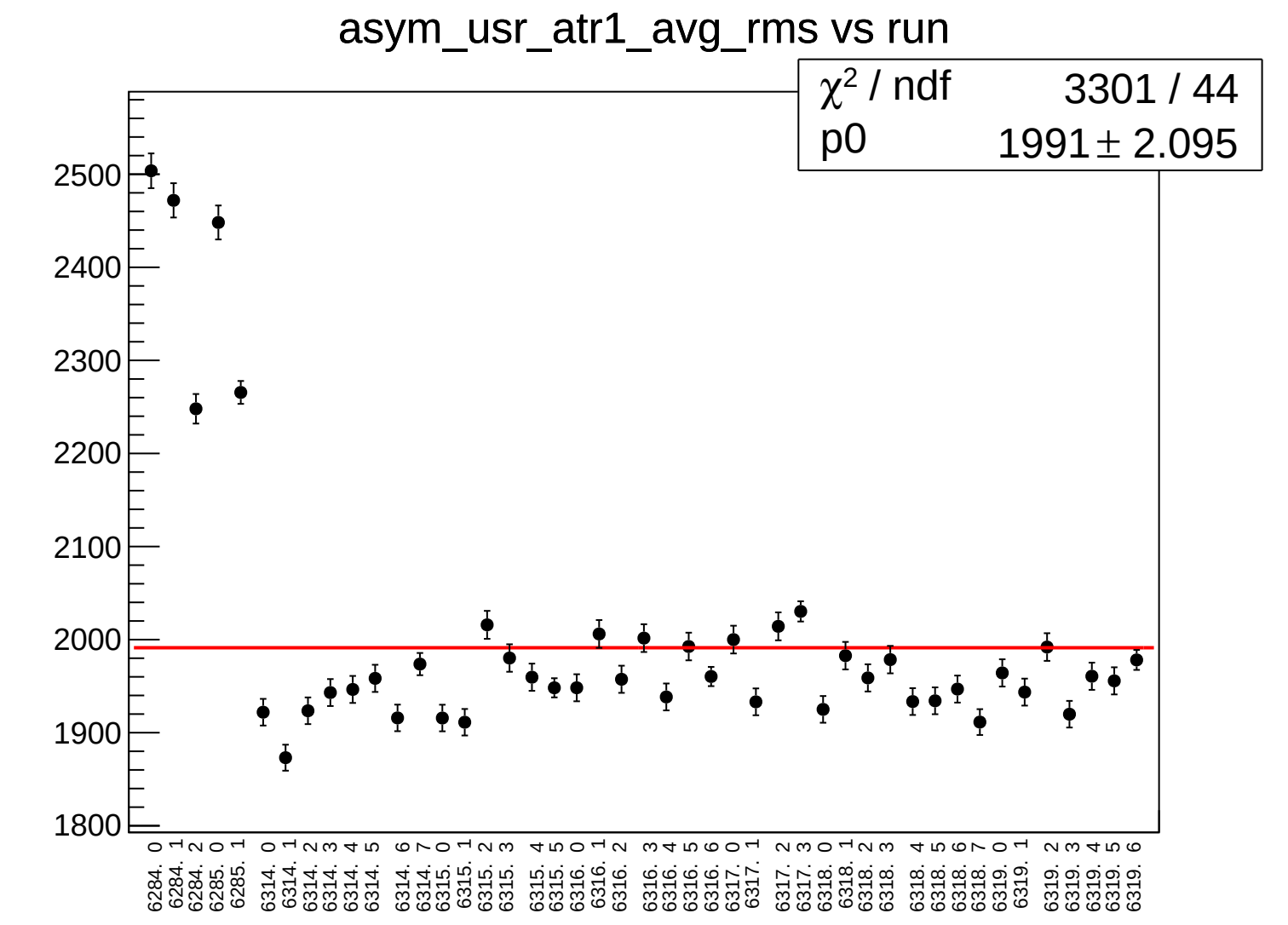

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.14 / 44
p0 −1495 ± 1763
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −410.9
Std Dev 0
1
0
−1
−2
−3

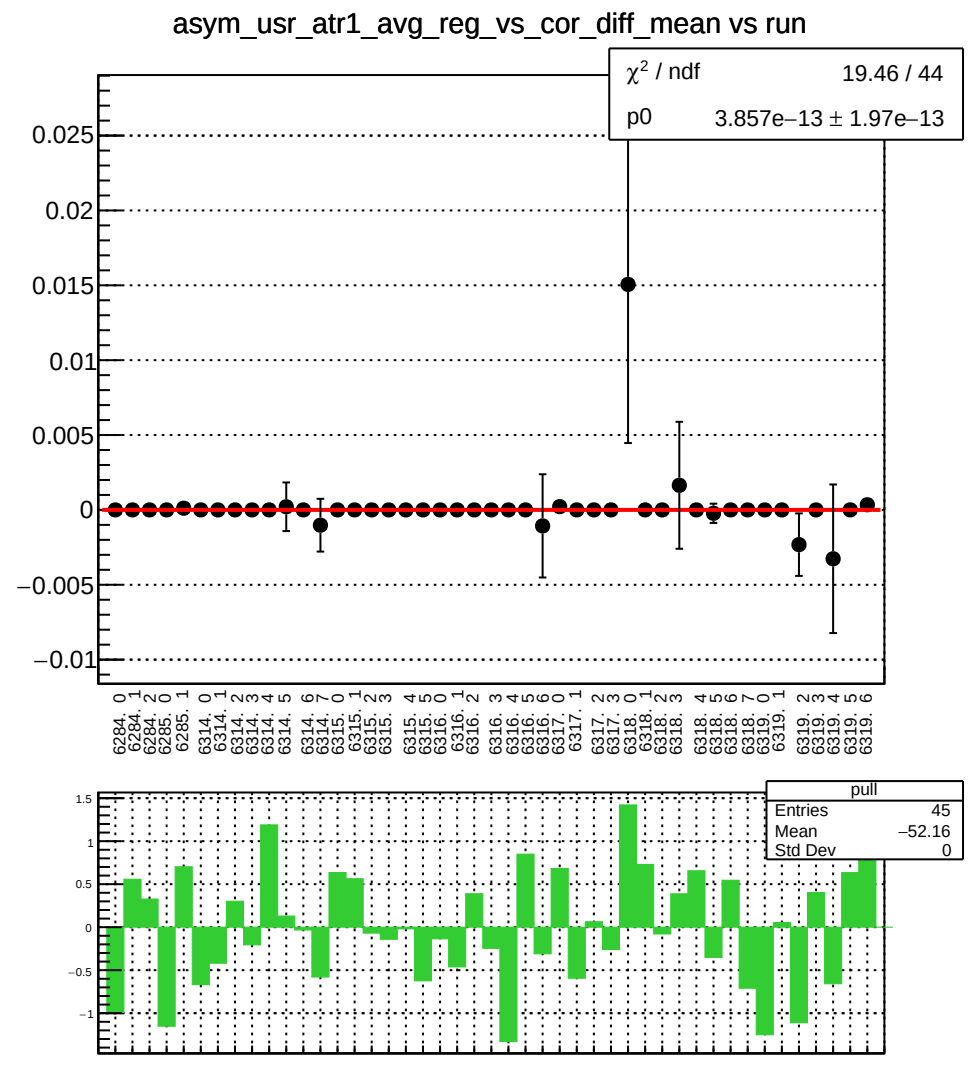

pull1D
Entries 45
Mean 0.005829
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

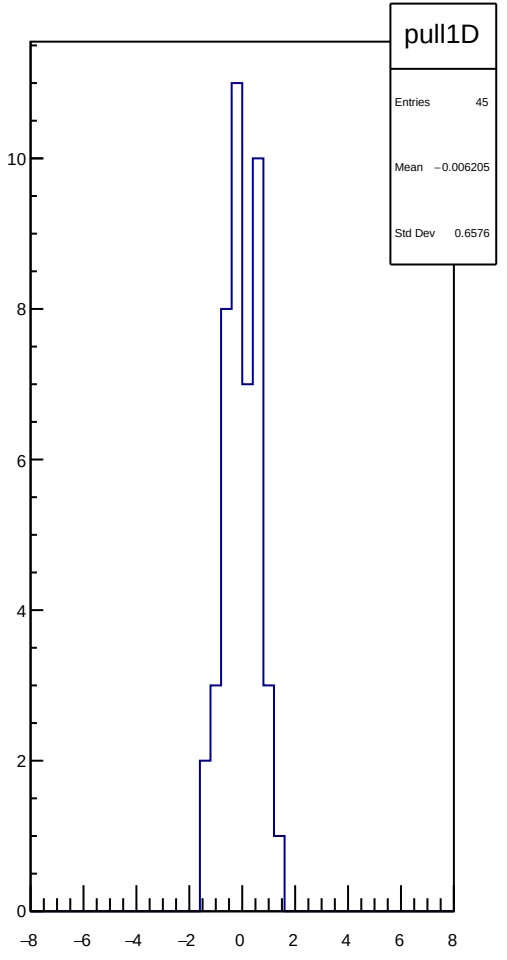

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5433 / 44
p0 1184 ± 1.246
1600
1500
1400
1300
1200
1100
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

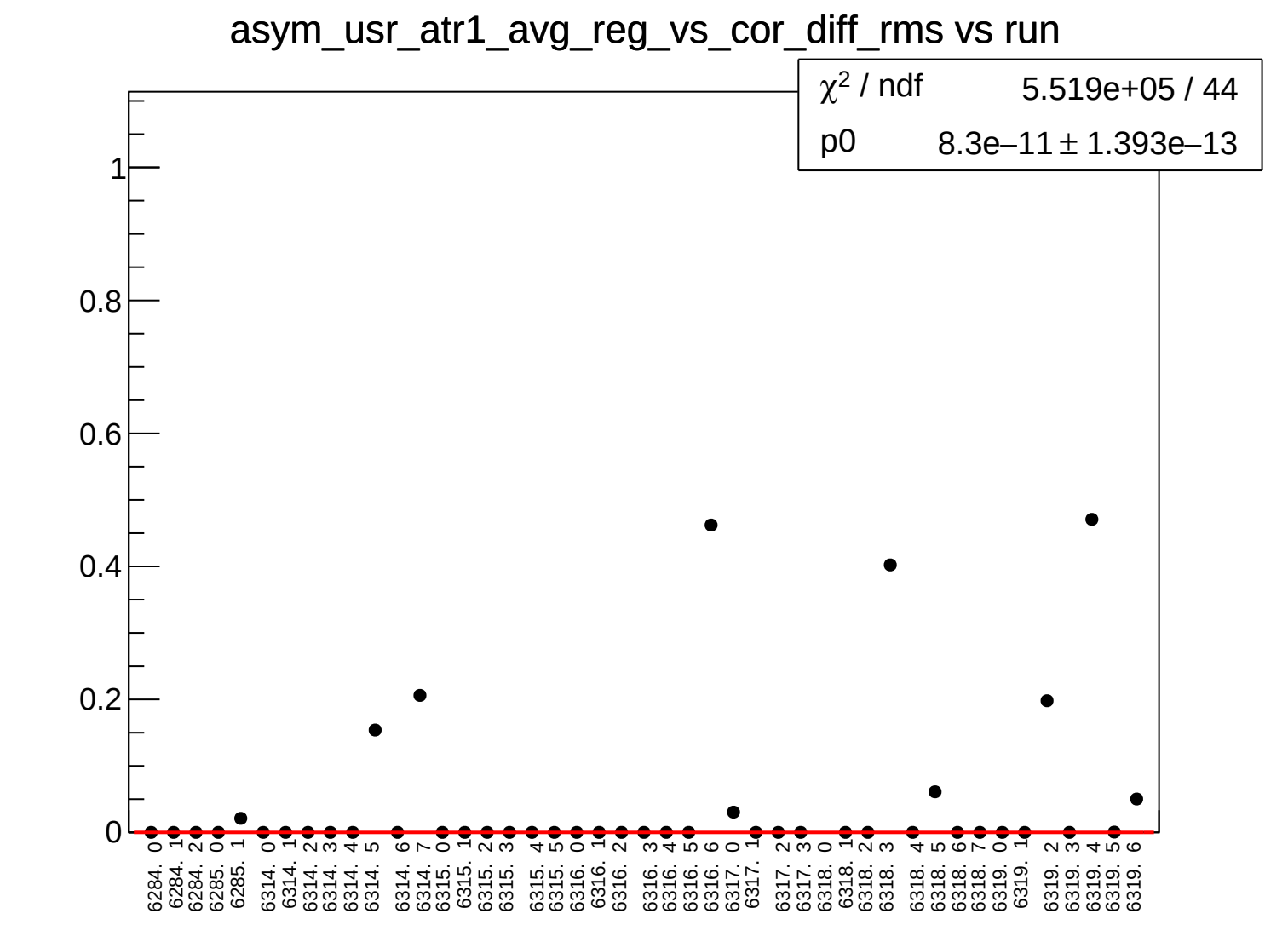

asym_usr_atr1_avg_mean vs run
χ² / ndf 41.92 / 44
p0 146.8 ± 2962
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −151.2
Std Dev 0
2
1
0
−1
−2

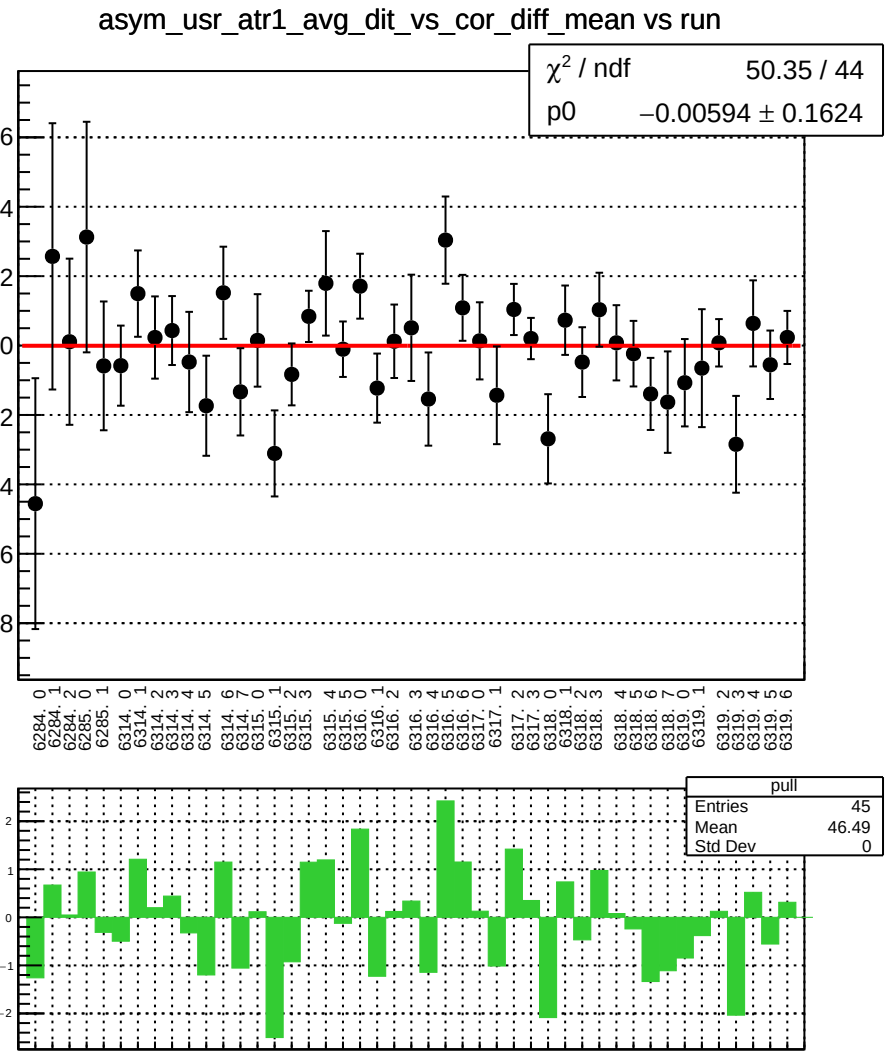

pull1D
Entries 45
Mean −0.01022
Std Dev 0.9652
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

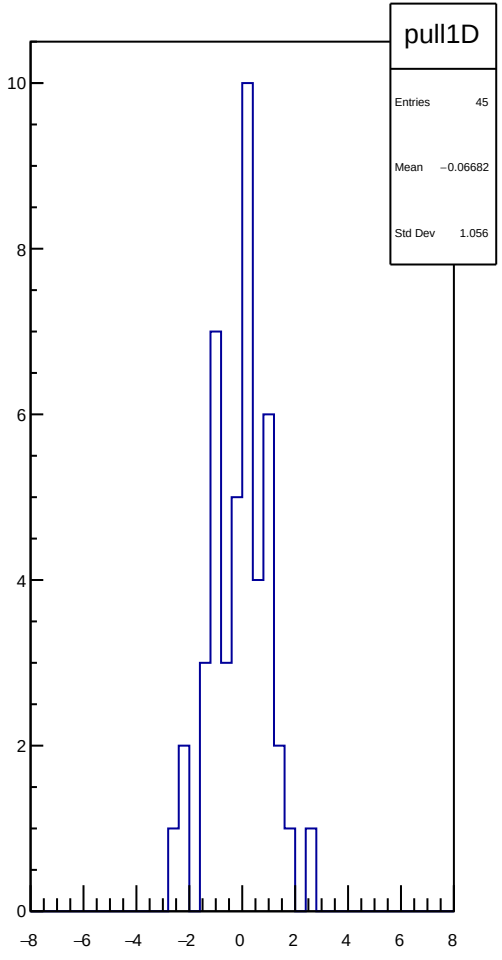

asym_usr_atr1_avg_rms vs run
χ² / ndf 3301 / 44
p0 1991 ± 2.095
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

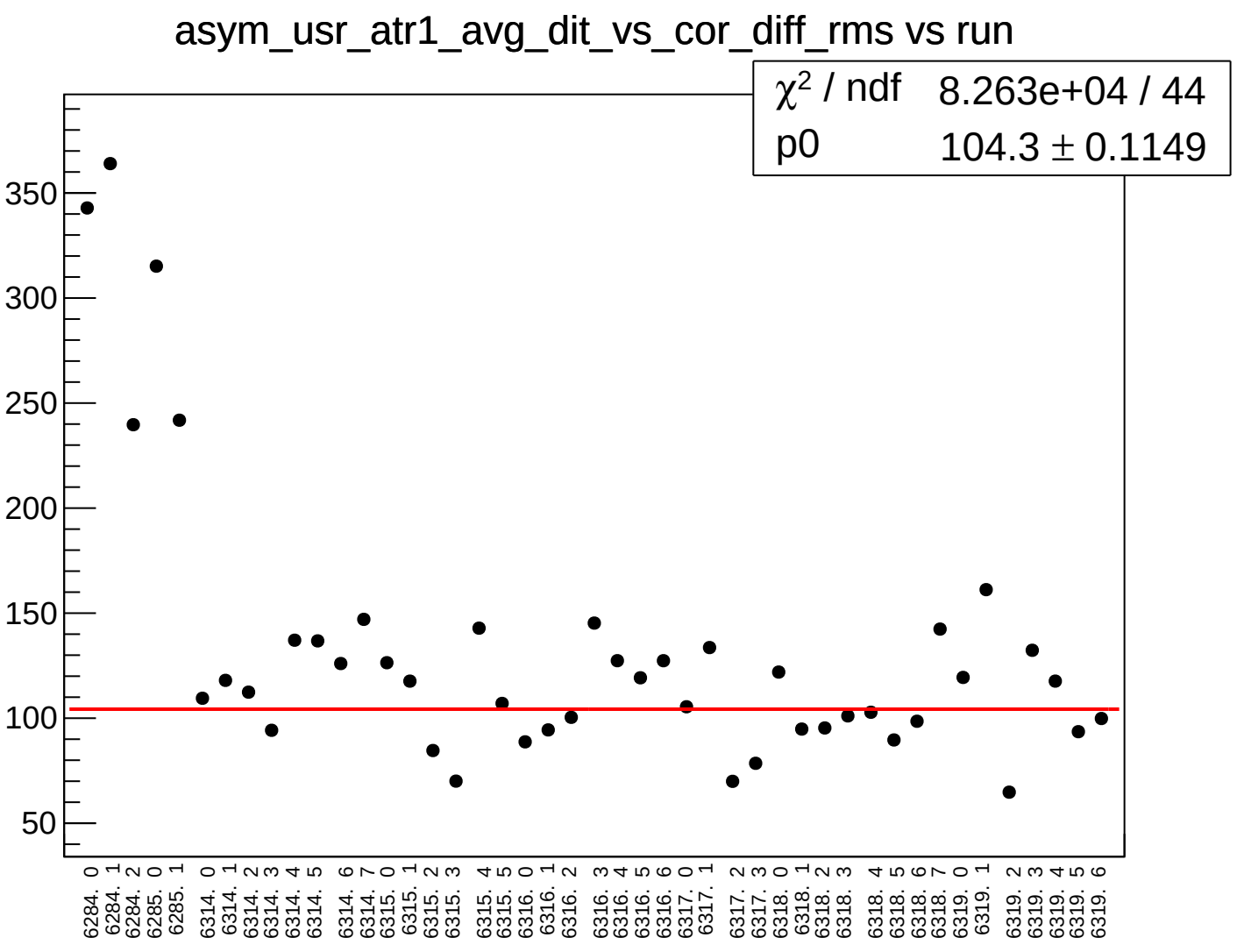

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.46 / 44
p0 3.857e−13 ± 1.97e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean −0.006205
Std Dev 0.6576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

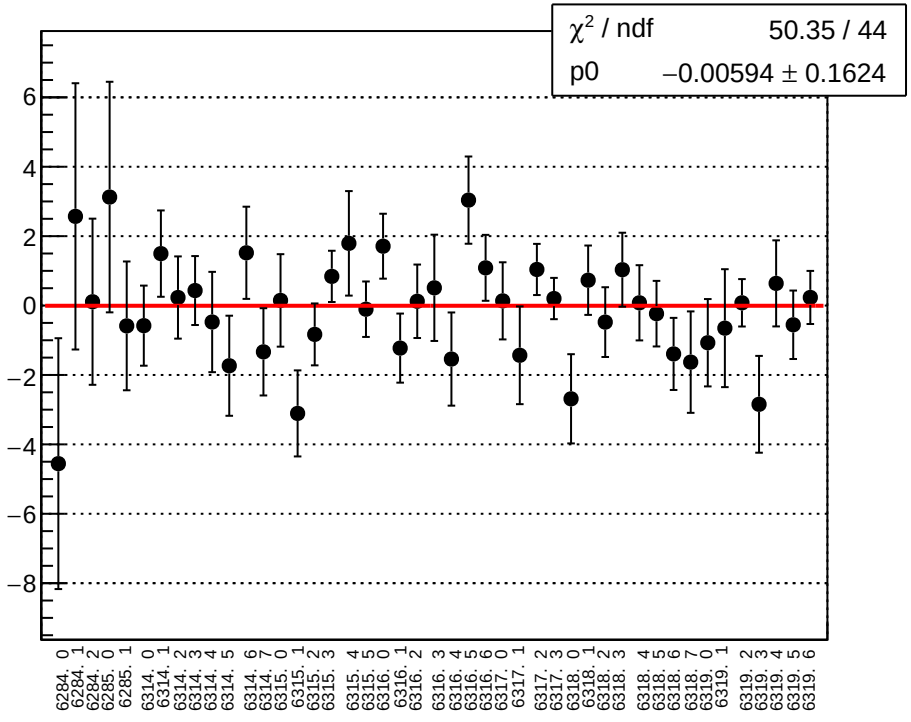

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.519e+05 / 44
p0 8.3e−11 ± 1.393e−13
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

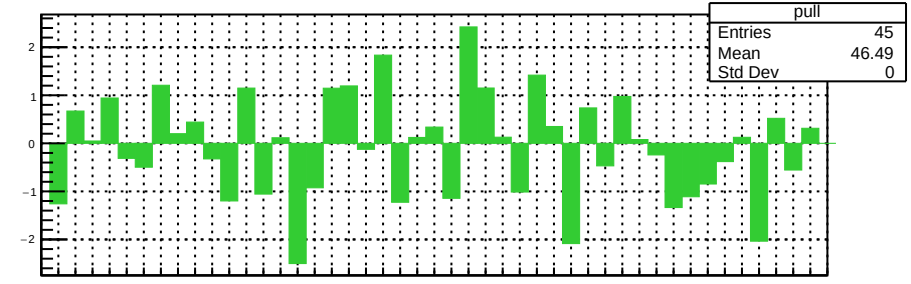

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.35 / 44
p0 −0.00594 ± 0.1624
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 46.49
Std Dev 0

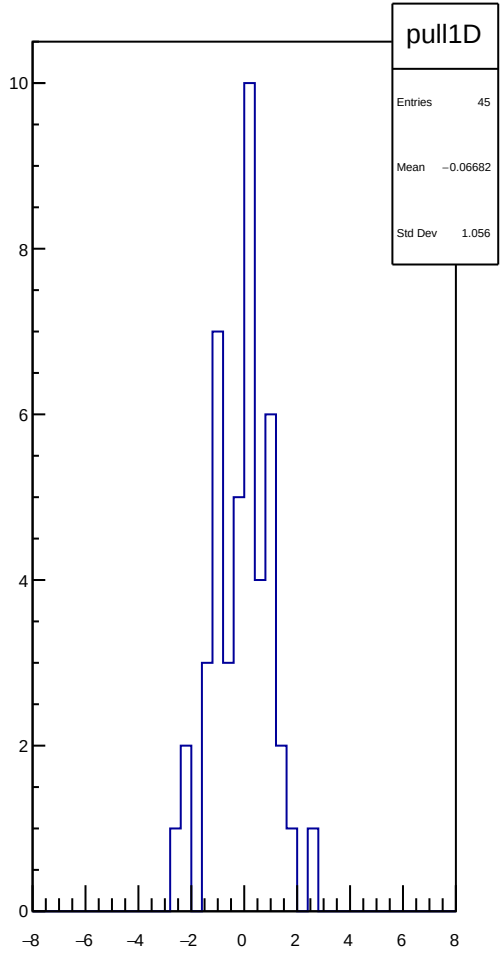

pull1D
Entries 45
Mean −0.06682
Std Dev 1.056

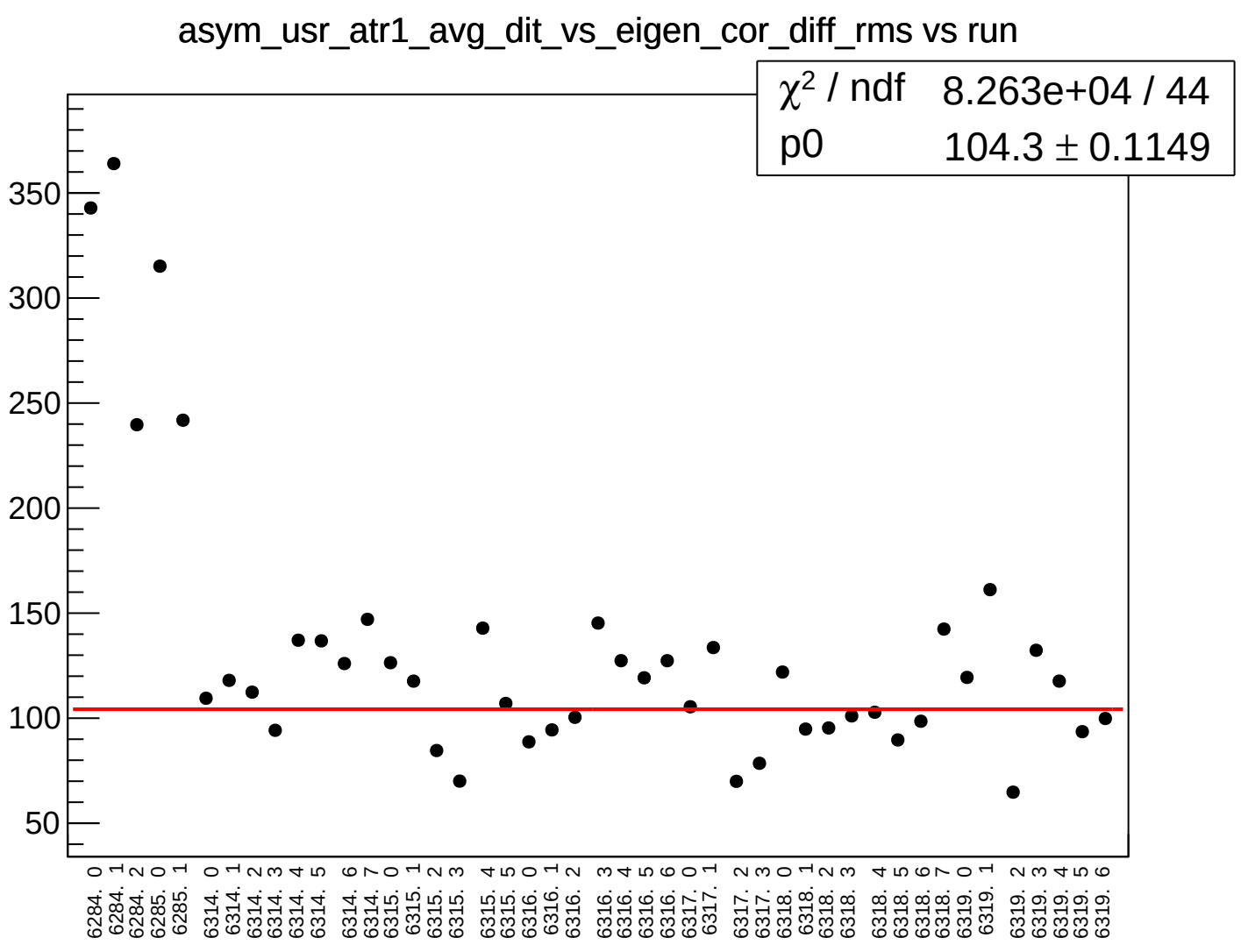

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.263e+04 / 44
p0 104.3 ± 0.1149
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

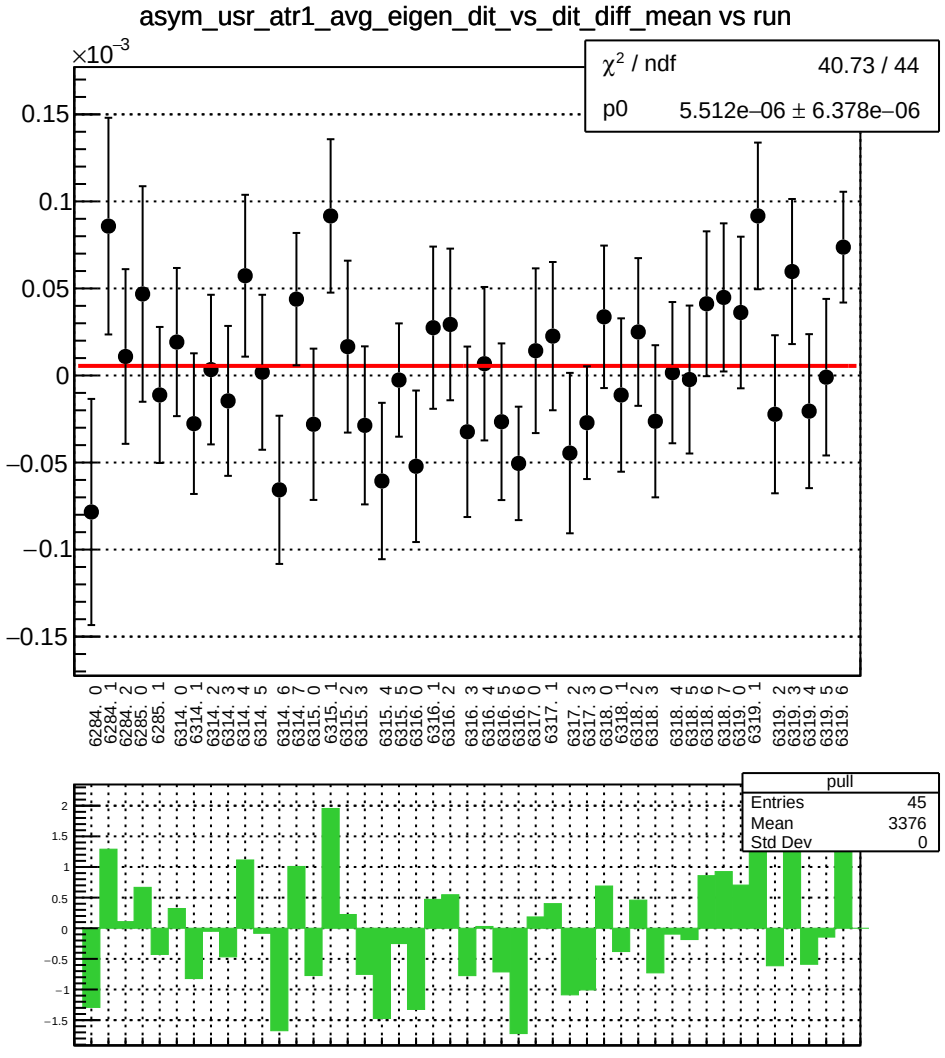
asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run

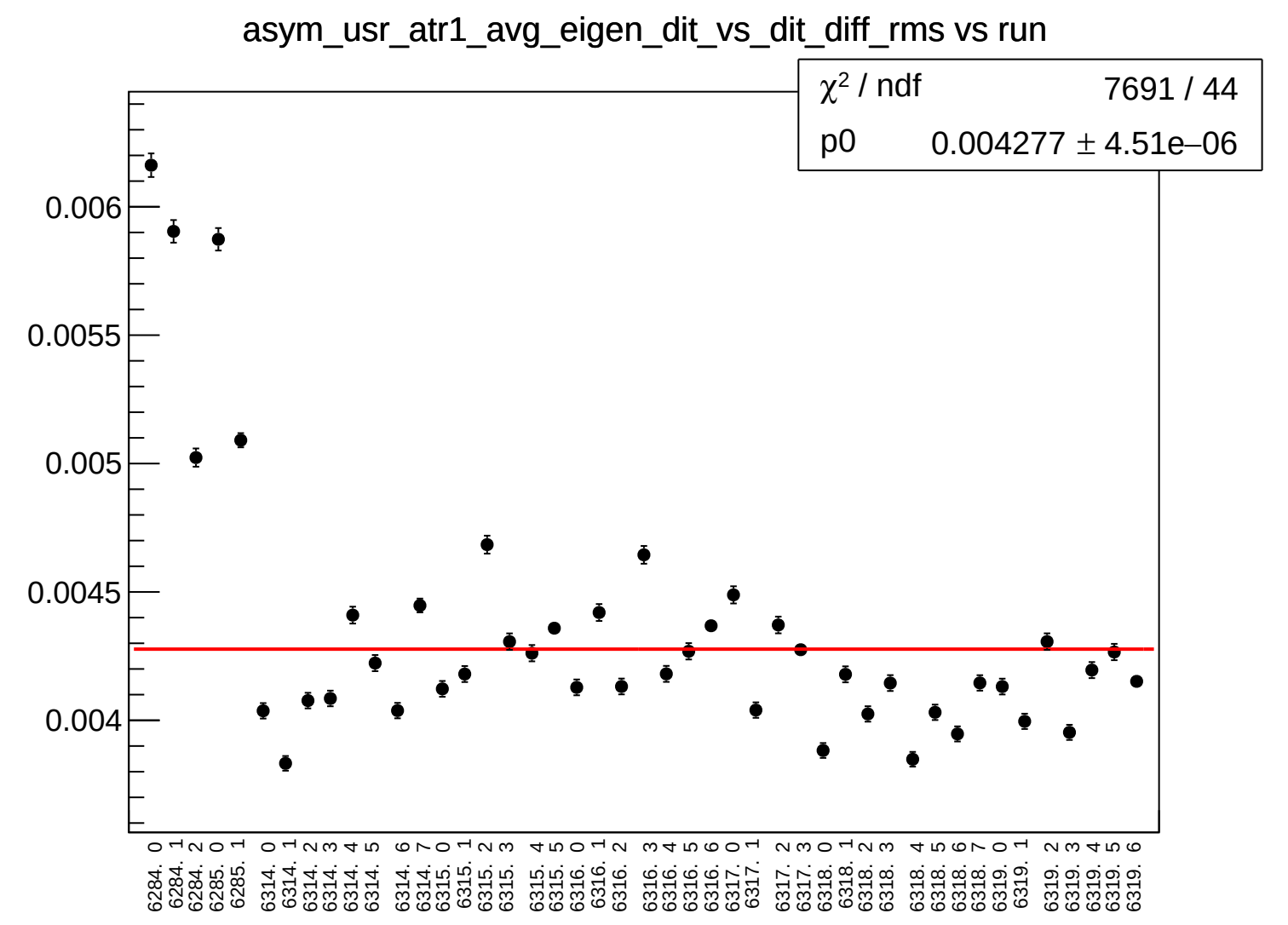




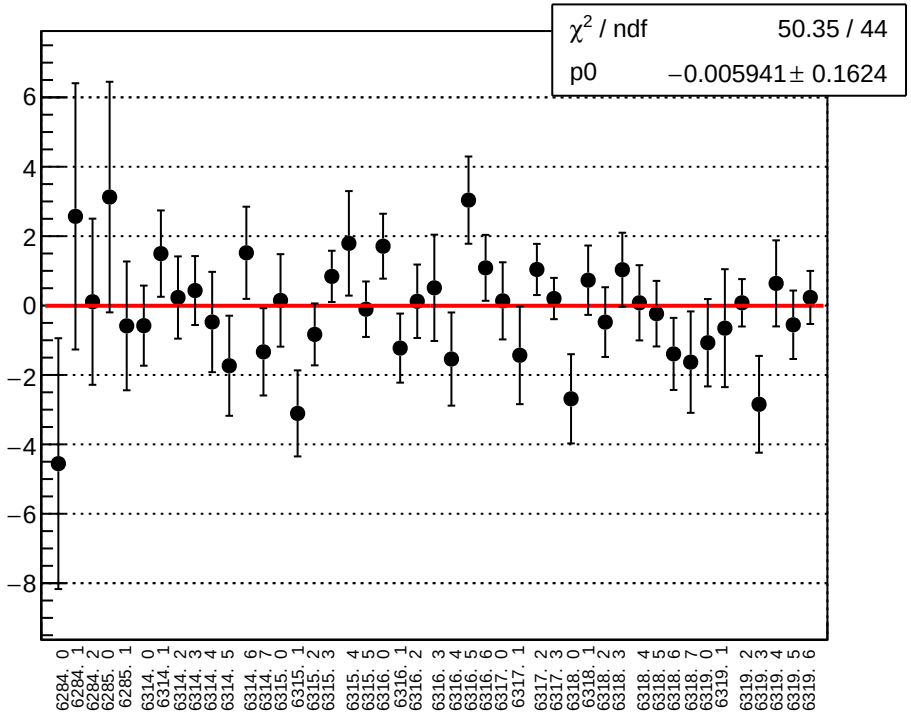


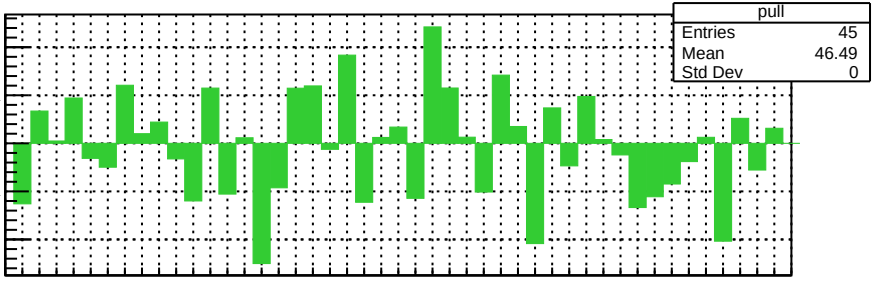

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.263e+04 / 44
p0 104.3 ± 0.1149
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

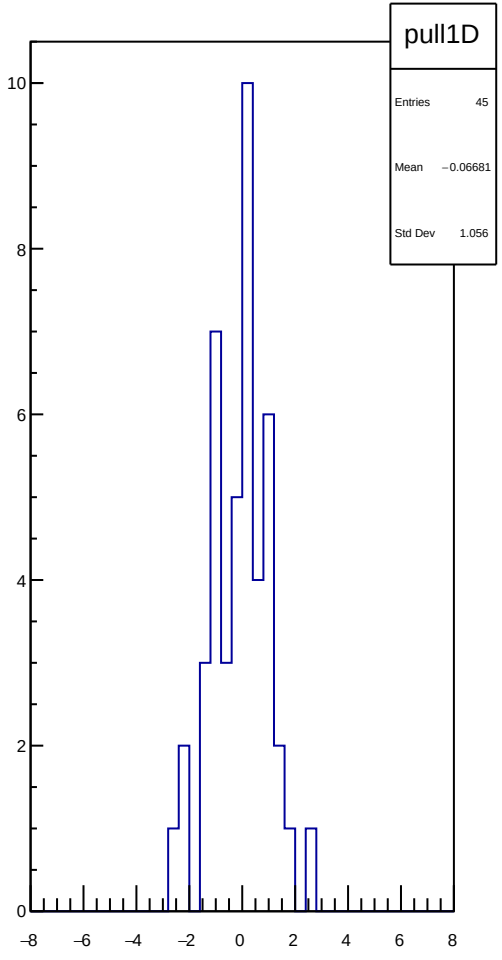

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.73 / 44
p0 5.512e−06 ± 6.378e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0006944
Std Dev 0.9514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

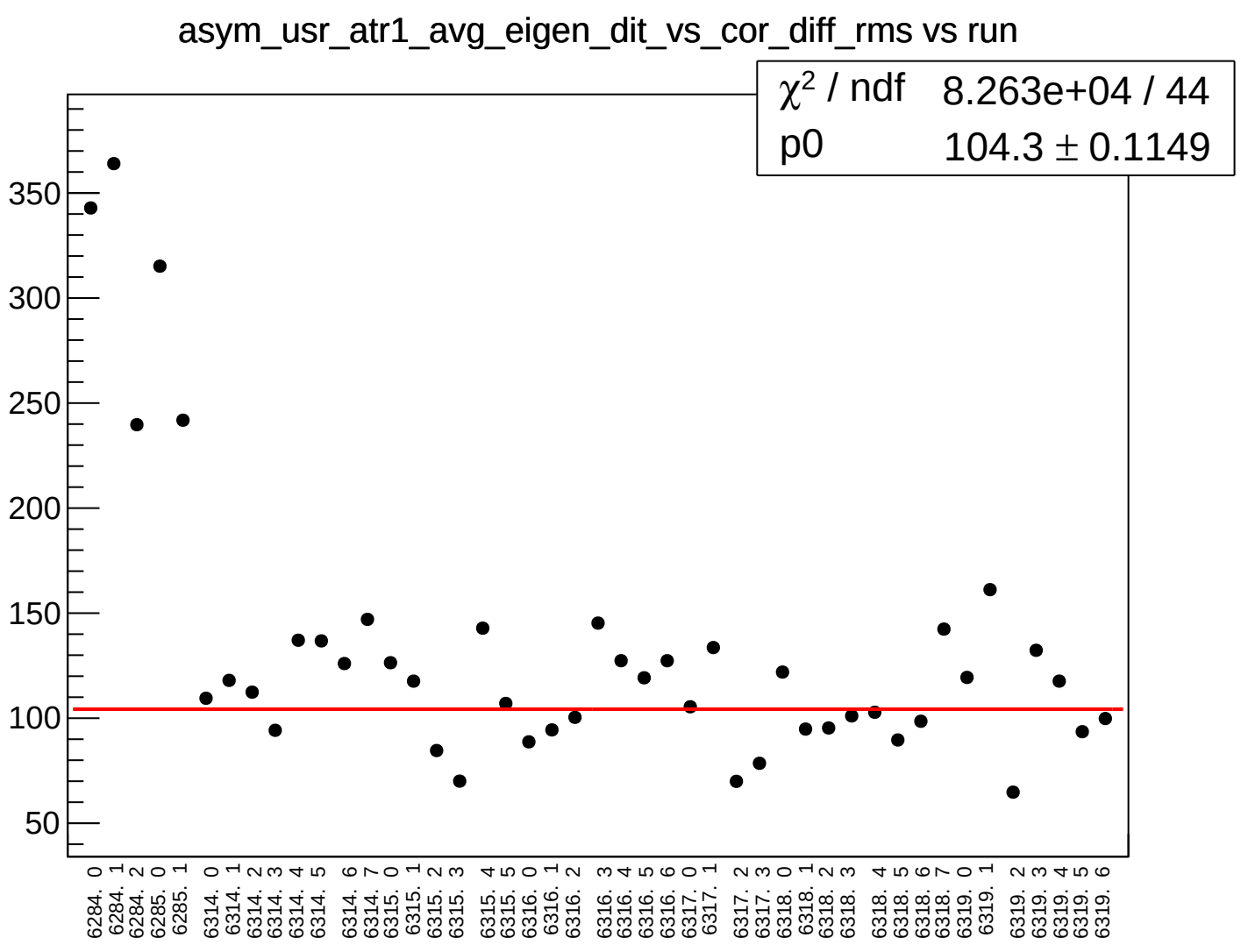

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7691 / 44
p0 0.004277 ± 4.51e−06
0.006
0.0055
0.005
0.0045
0.004
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

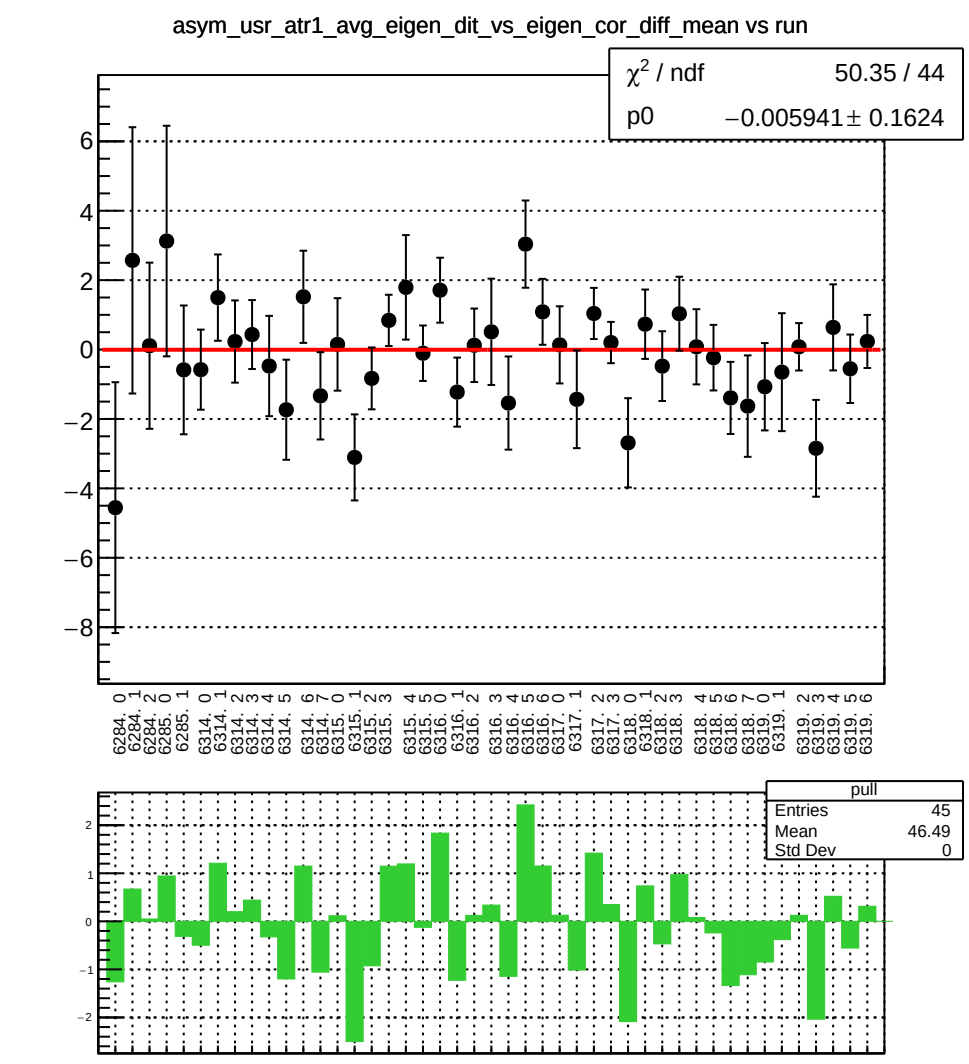
asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run

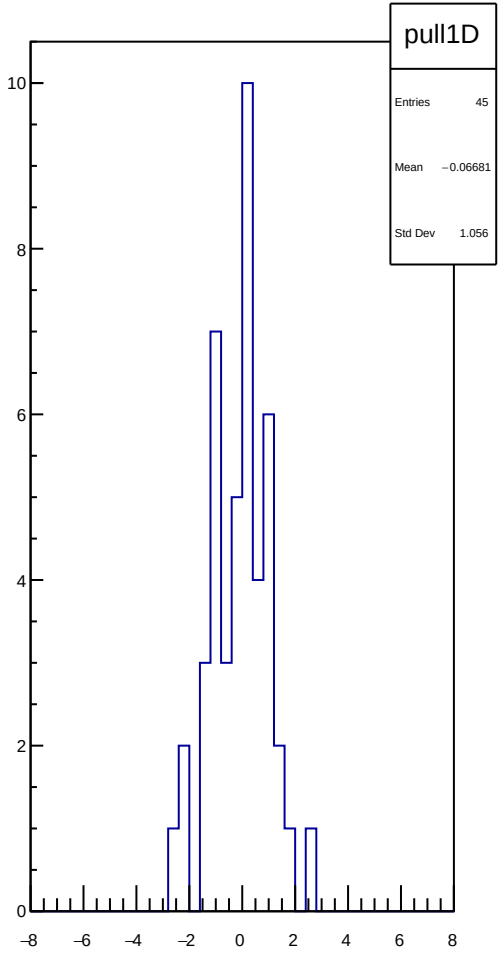


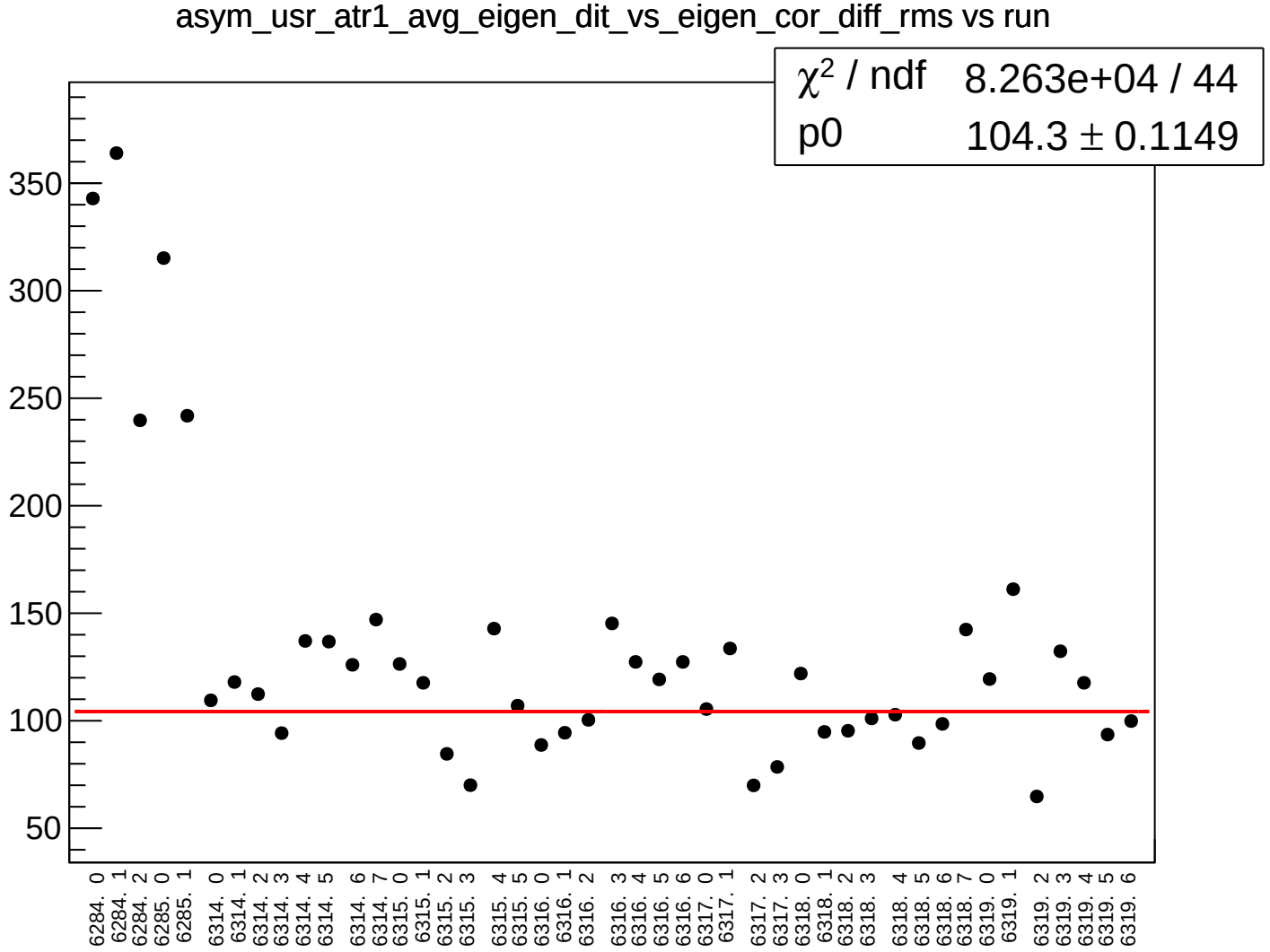


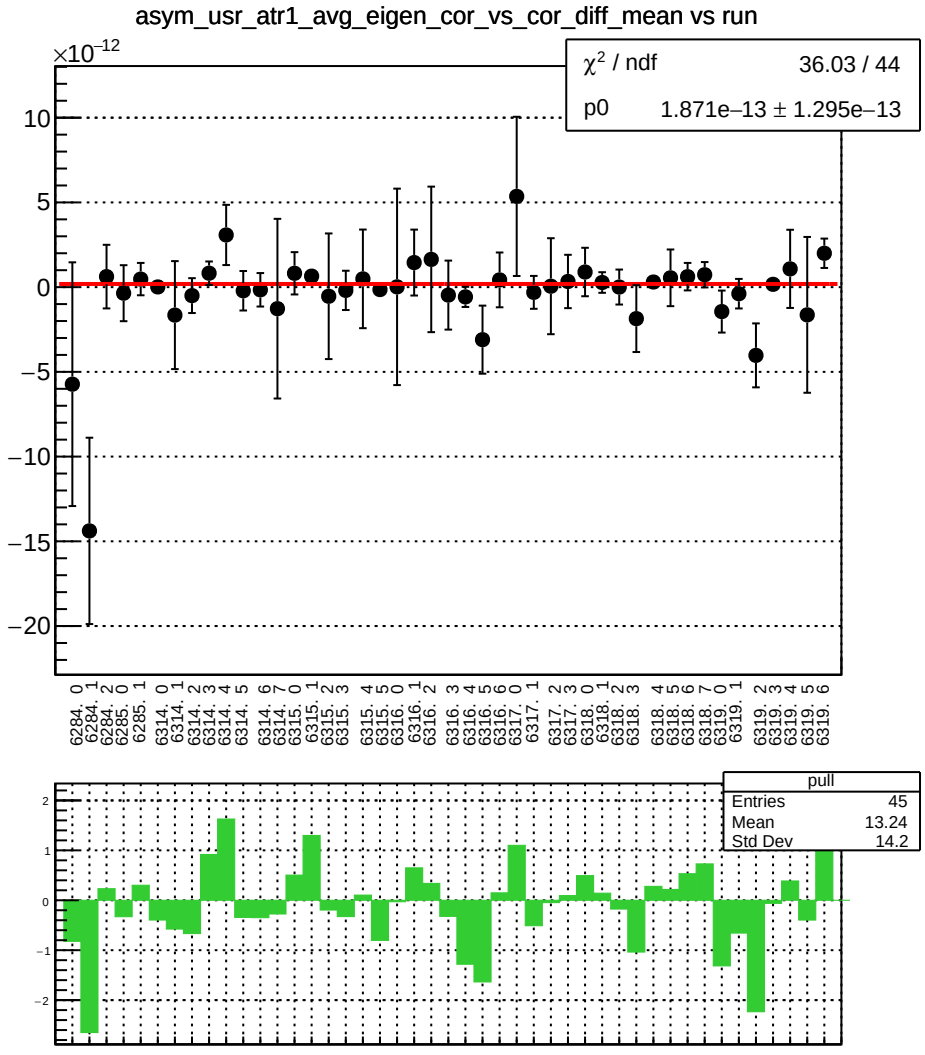


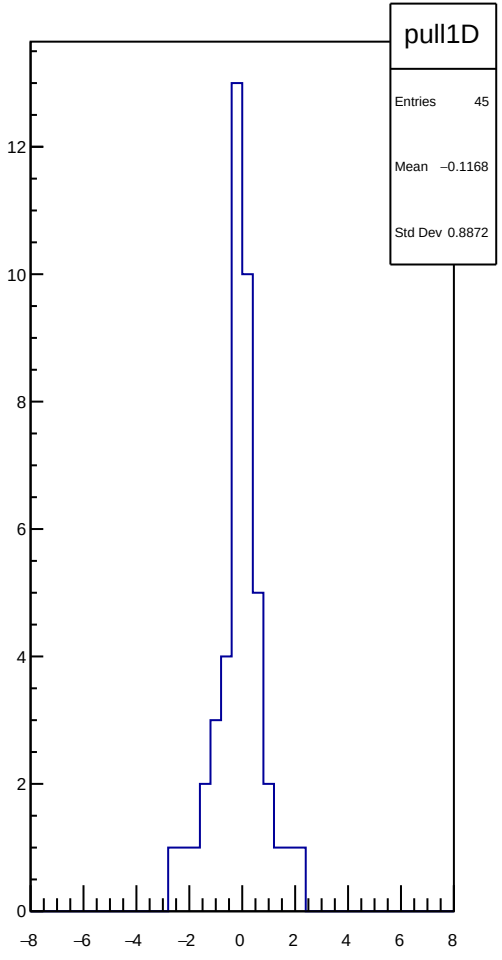

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.263e+04 / 44
p0 104.3 ± 0.1149
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

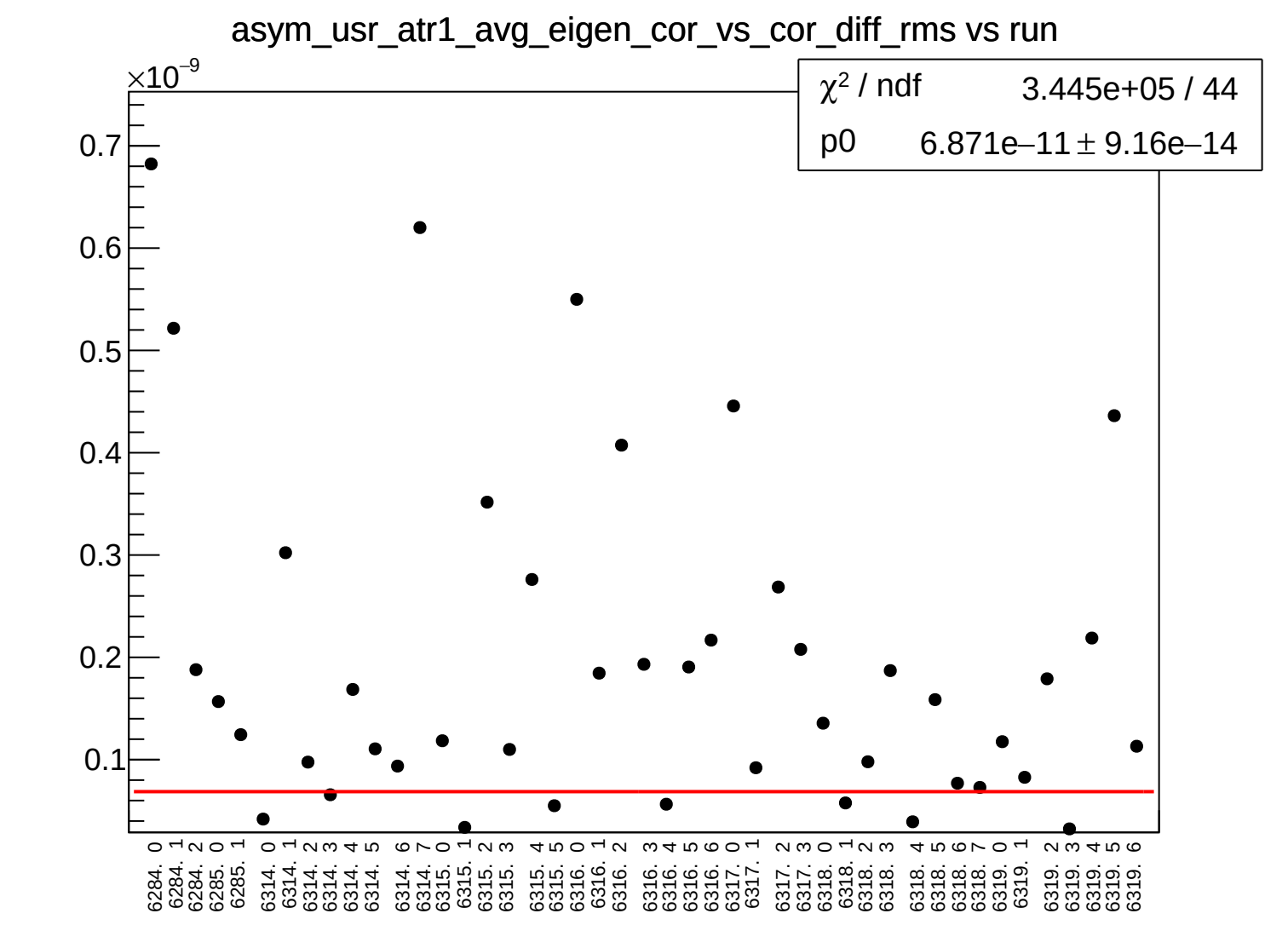

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.35 / 44
p0 −0.005941 ± 0.1624
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 46.49
Std Dev 0

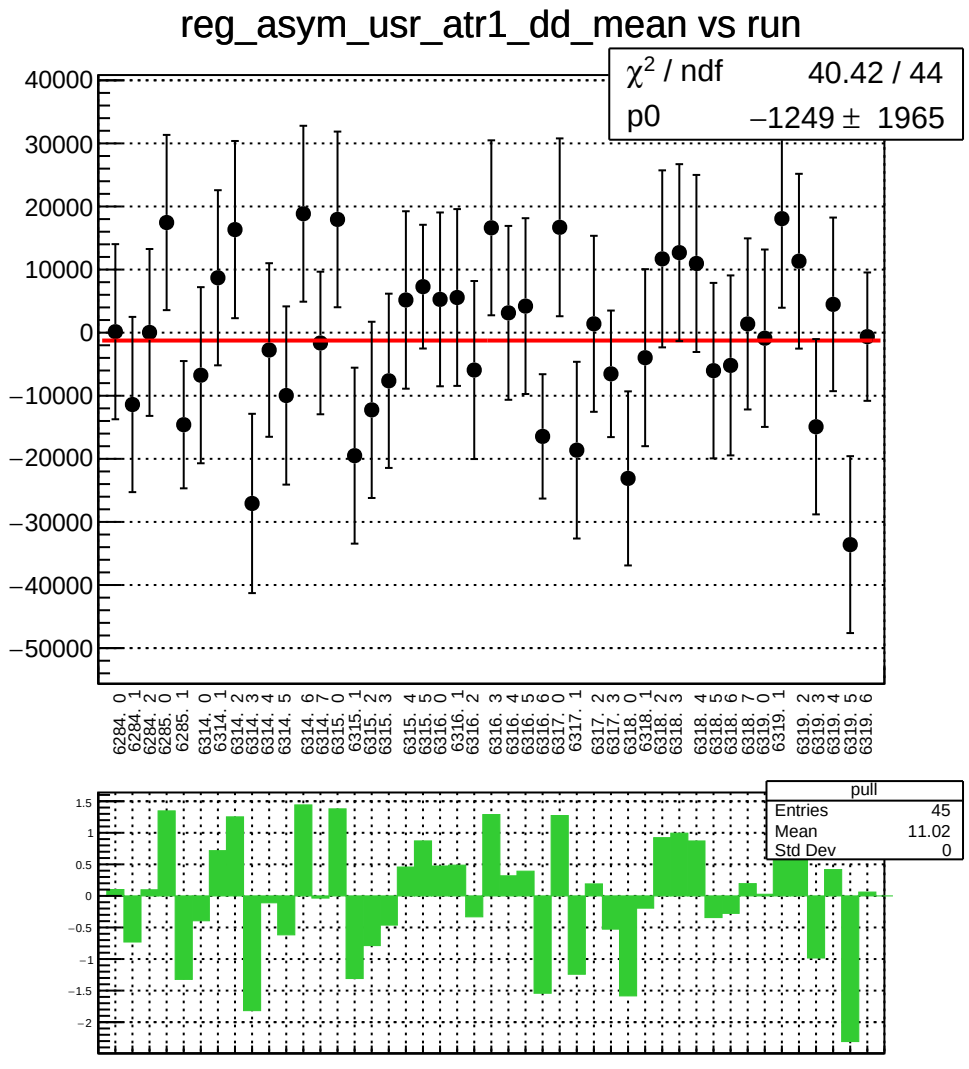

pull1D
Entries 45
Mean −0.06681
Std Dev 1.056

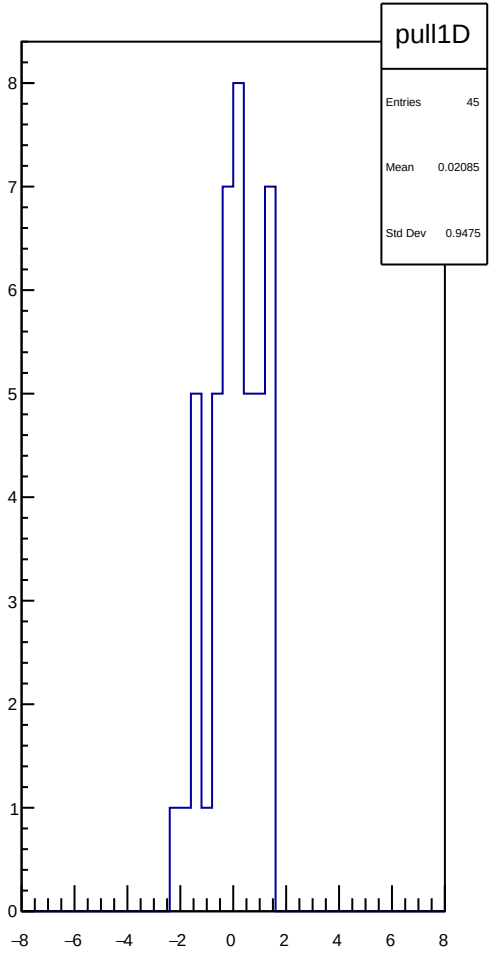

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.263e+04 / 44
p0 104.3 ± 0.1149
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

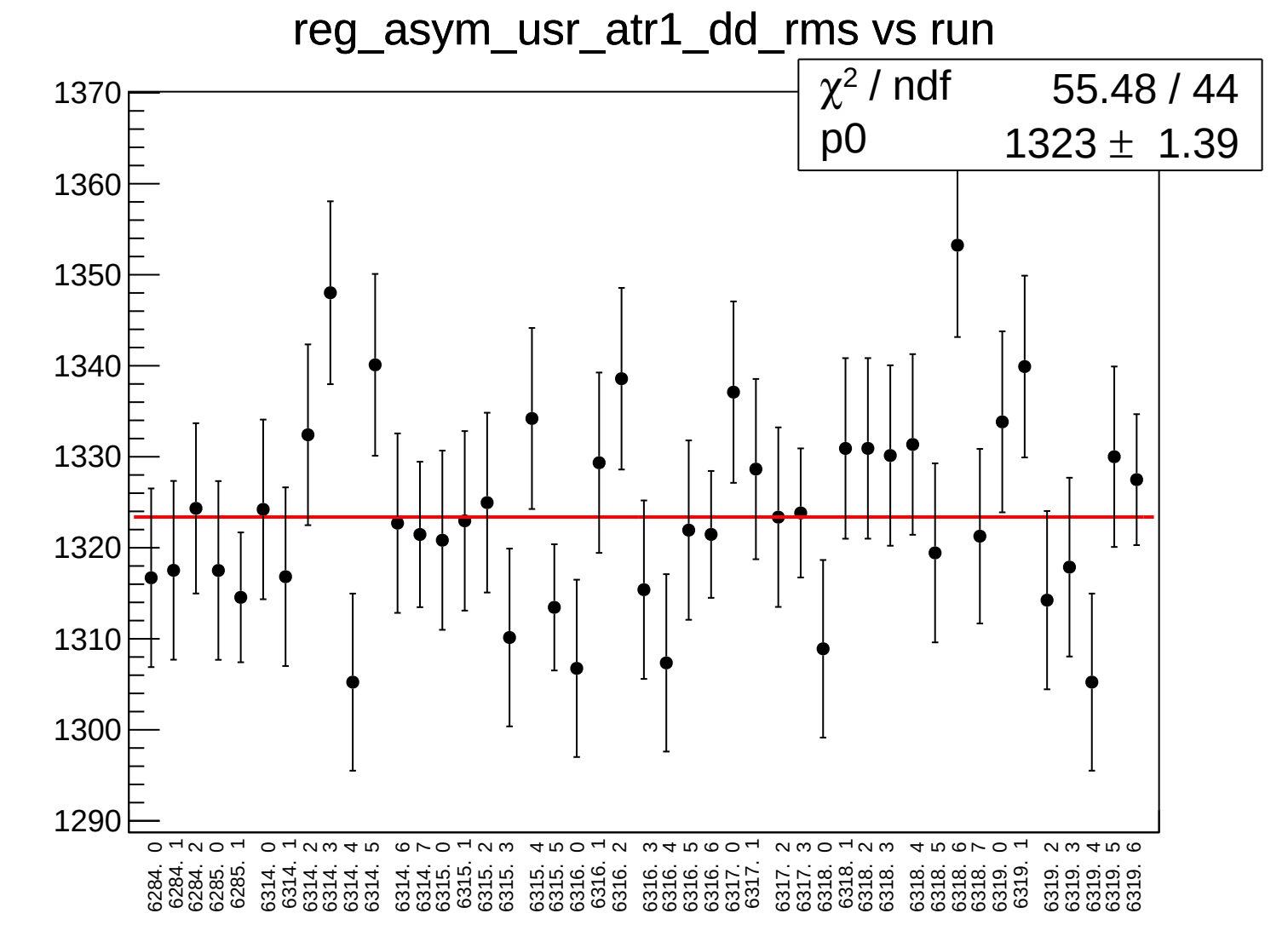

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.03 / 44
p0 1.871e−13 ± 1.295e−13
pull
Entries 45
Mean 13.24
Std Dev 14.2

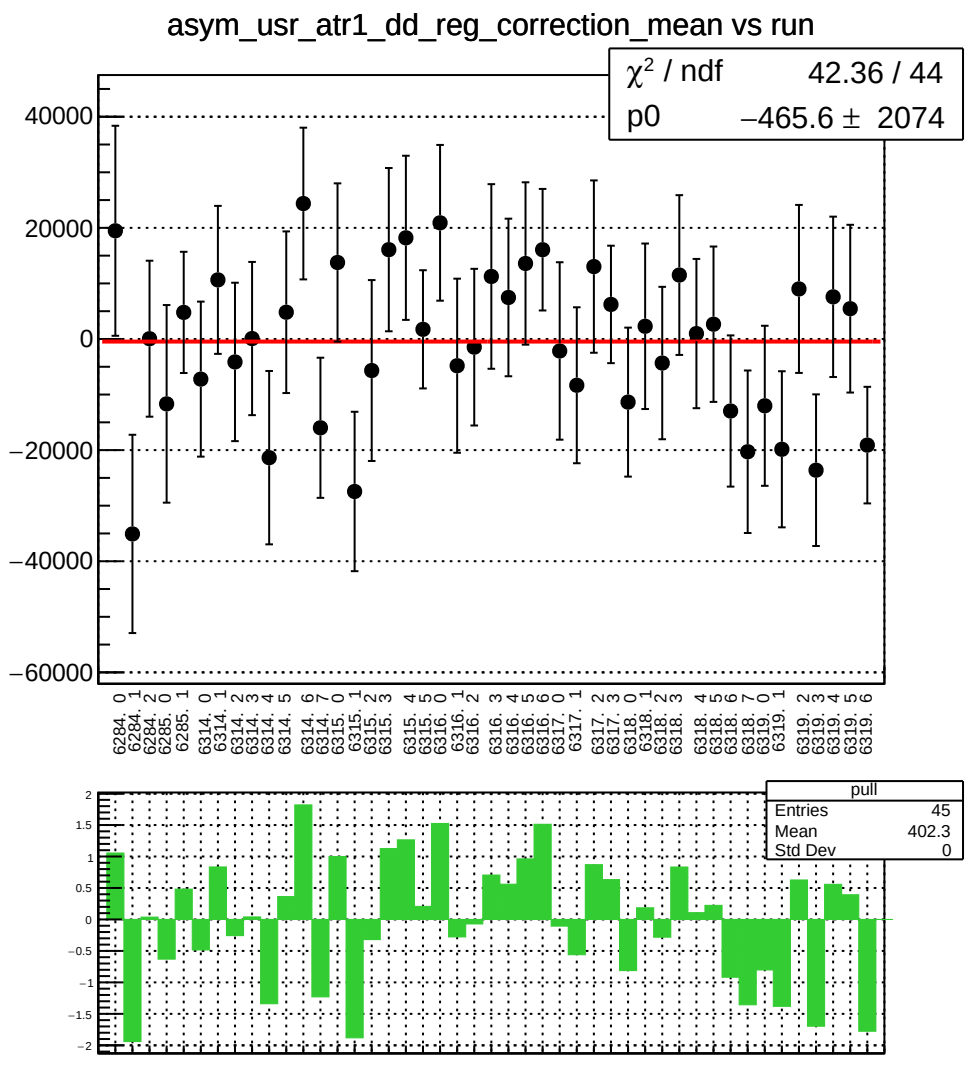

pull1D
Entries 45
Mean −0.1168
Std Dev 0.8872

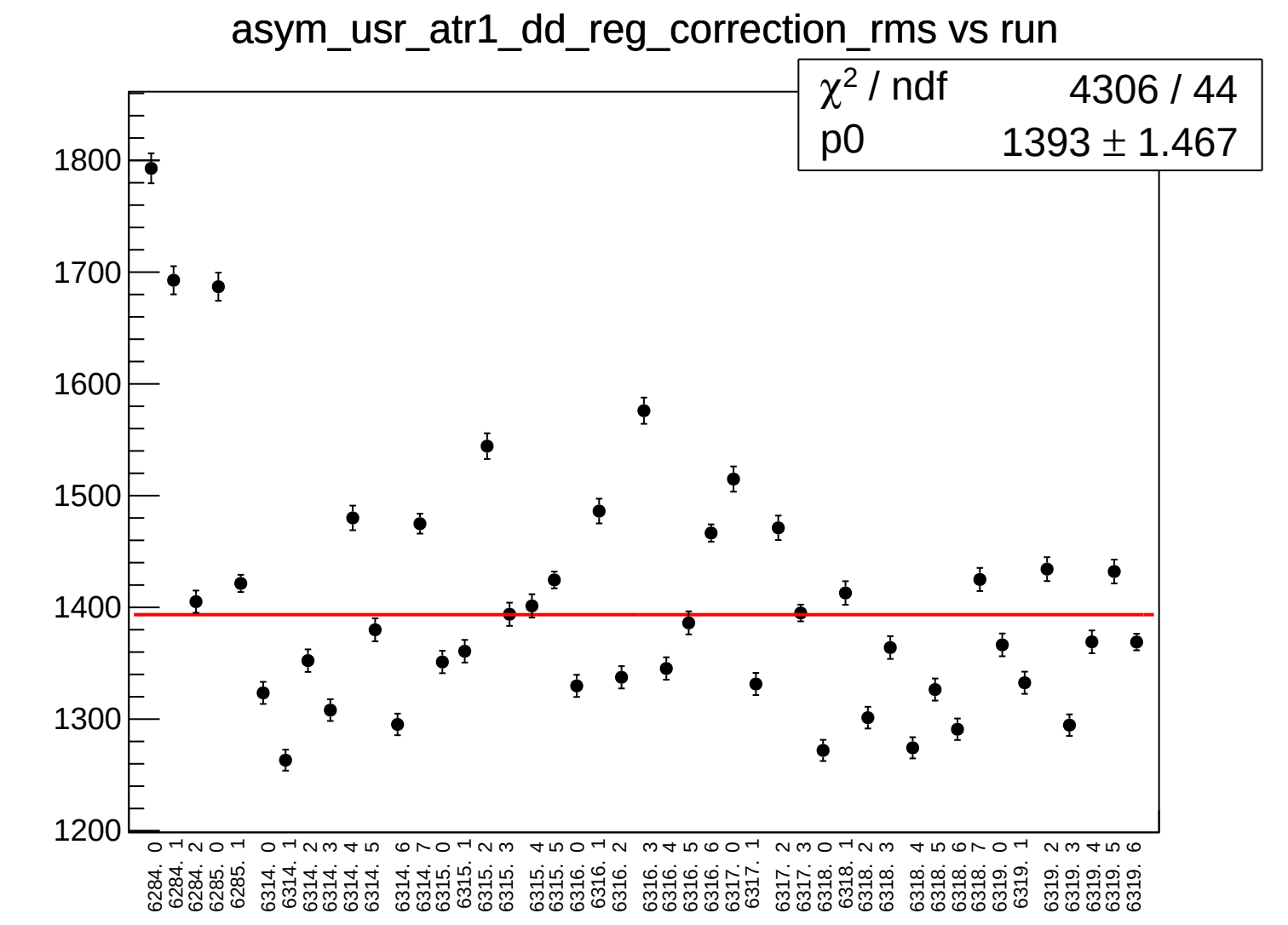

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.445e+05 / 44
p0 6.871e−11 ± 9.16e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

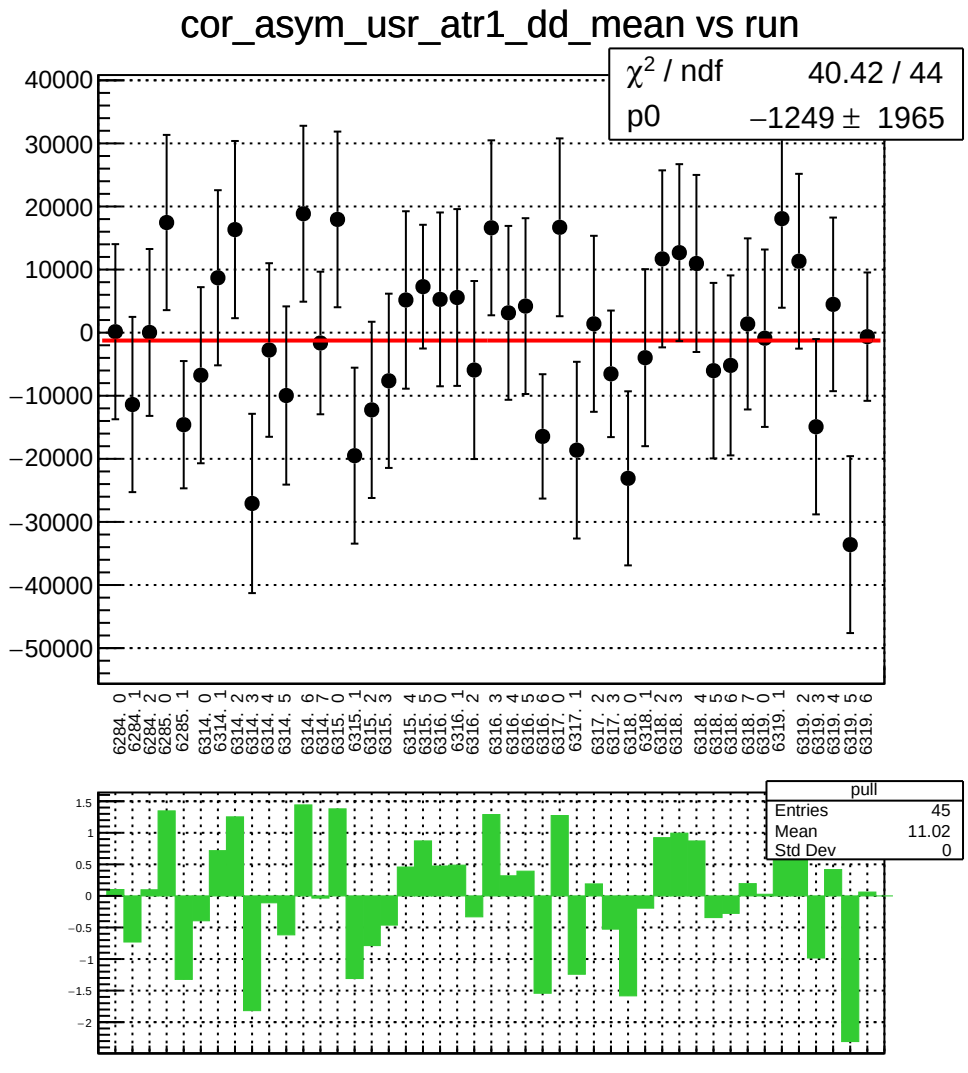

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 40.42 / 44
p0 −1249 ± 1965
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

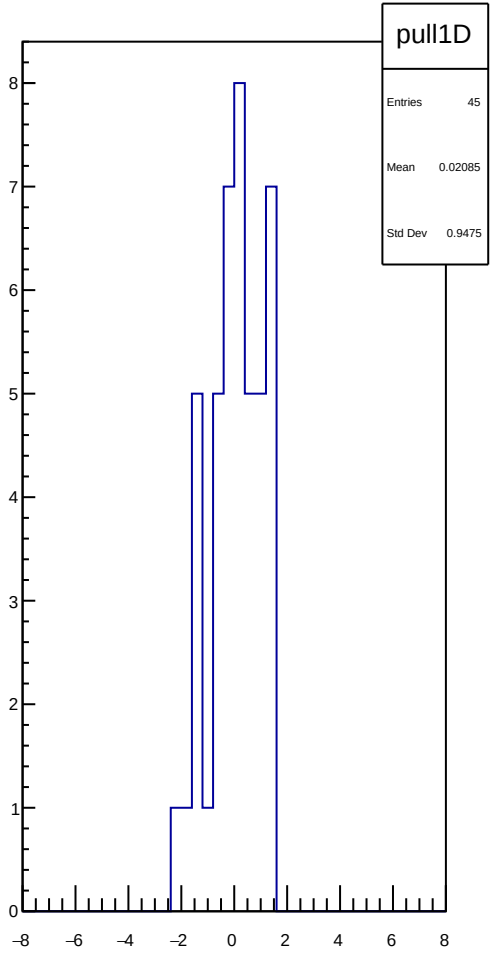

pull1D
Entries 45
Mean 0.02085
Std Dev 0.9475
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

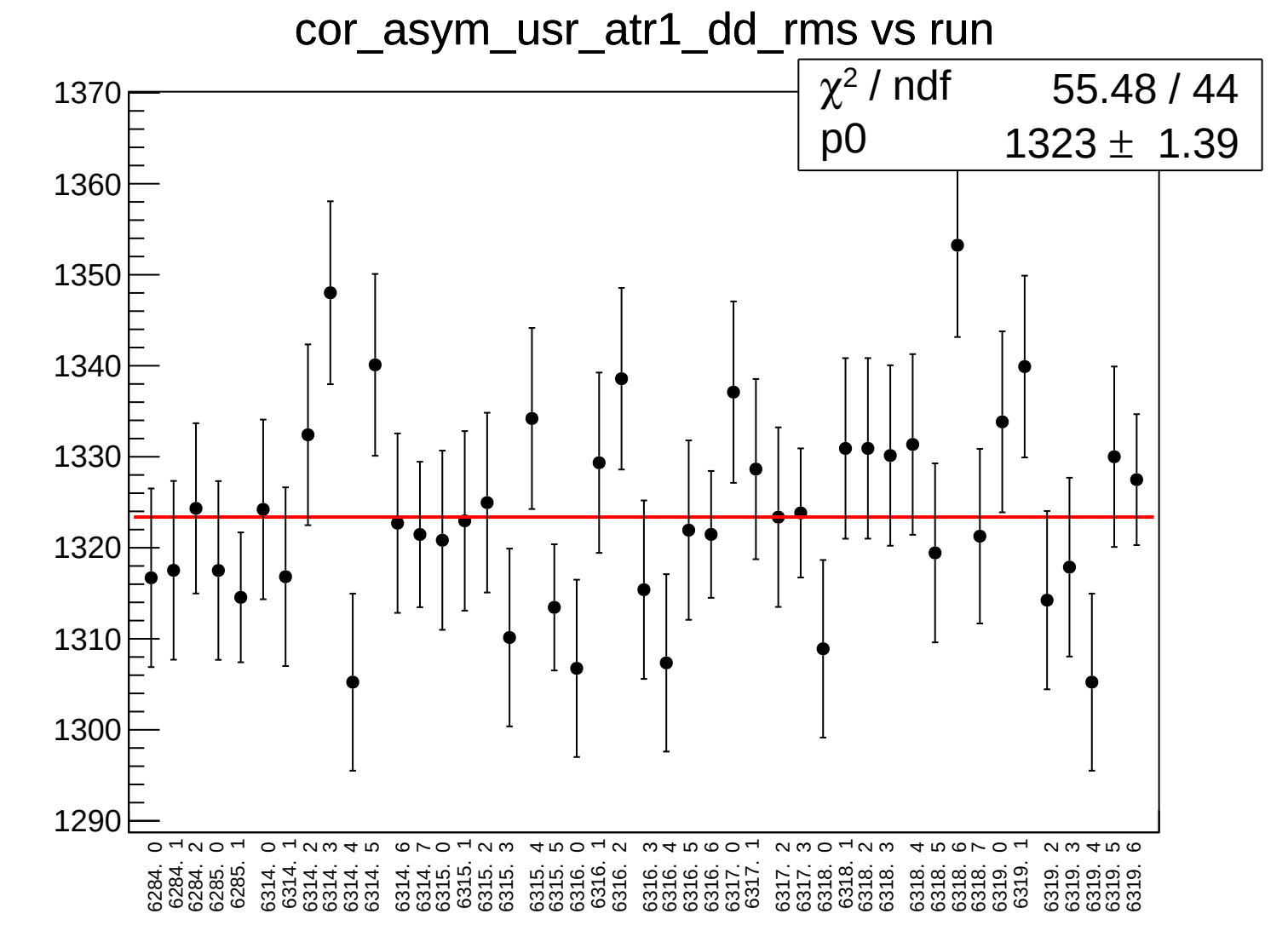

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 55.48 / 44
p0 1323 ± 1.39
1370
1360
1350
1340
1330
1320
1310
1300
1290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

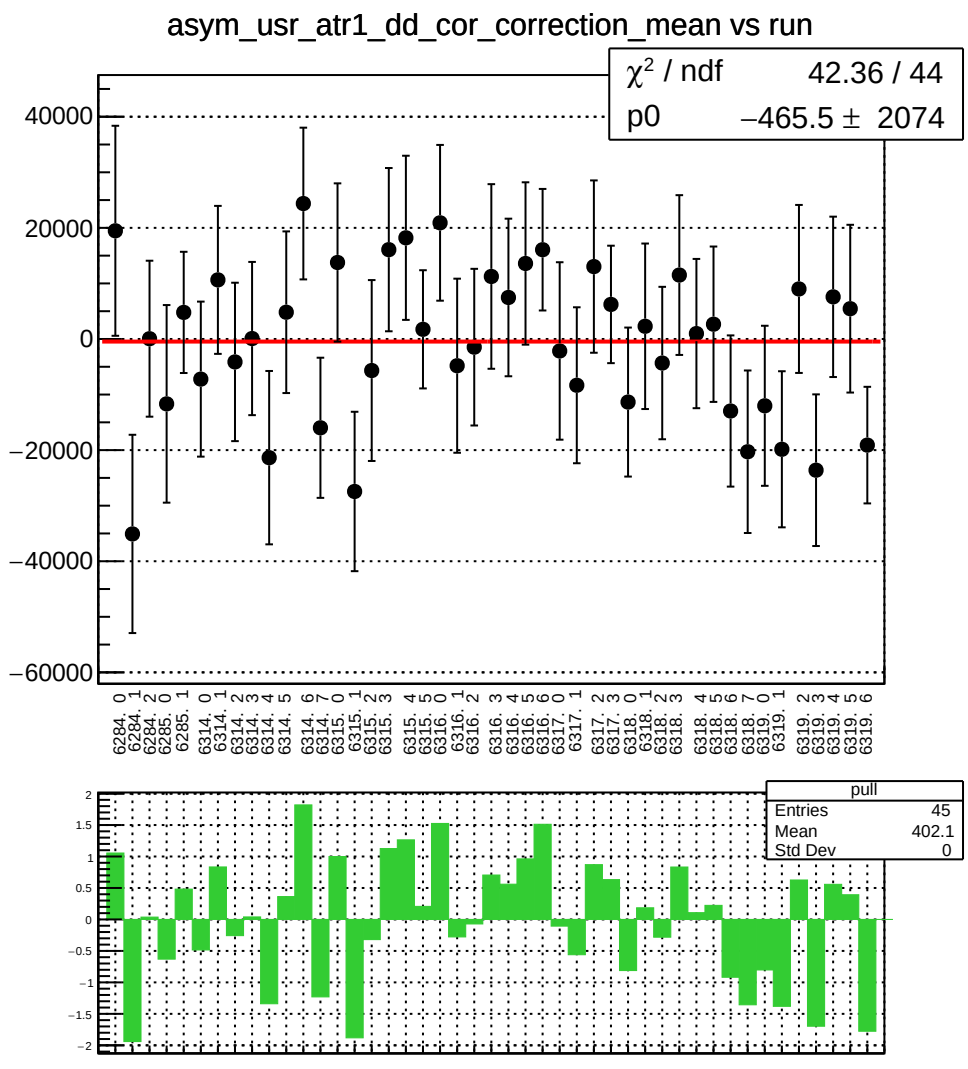

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 42.36 / 44
p0 −465.6 ± 2074
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 402.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0045
Std Dev 0.9703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4306 / 44
p0 1393 ± 1.467
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 40.42 / 44
p0 −1249 ± 1965
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02085
Std Dev 0.9475
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 55.48 / 44
p0 1323 ± 1.39
1370
1360
1350
1340
1330
1320
1310
1300
1290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 42.36 / 44
p0 −465.5 ± 2074
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 402.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.004502
Std Dev 0.9702
8
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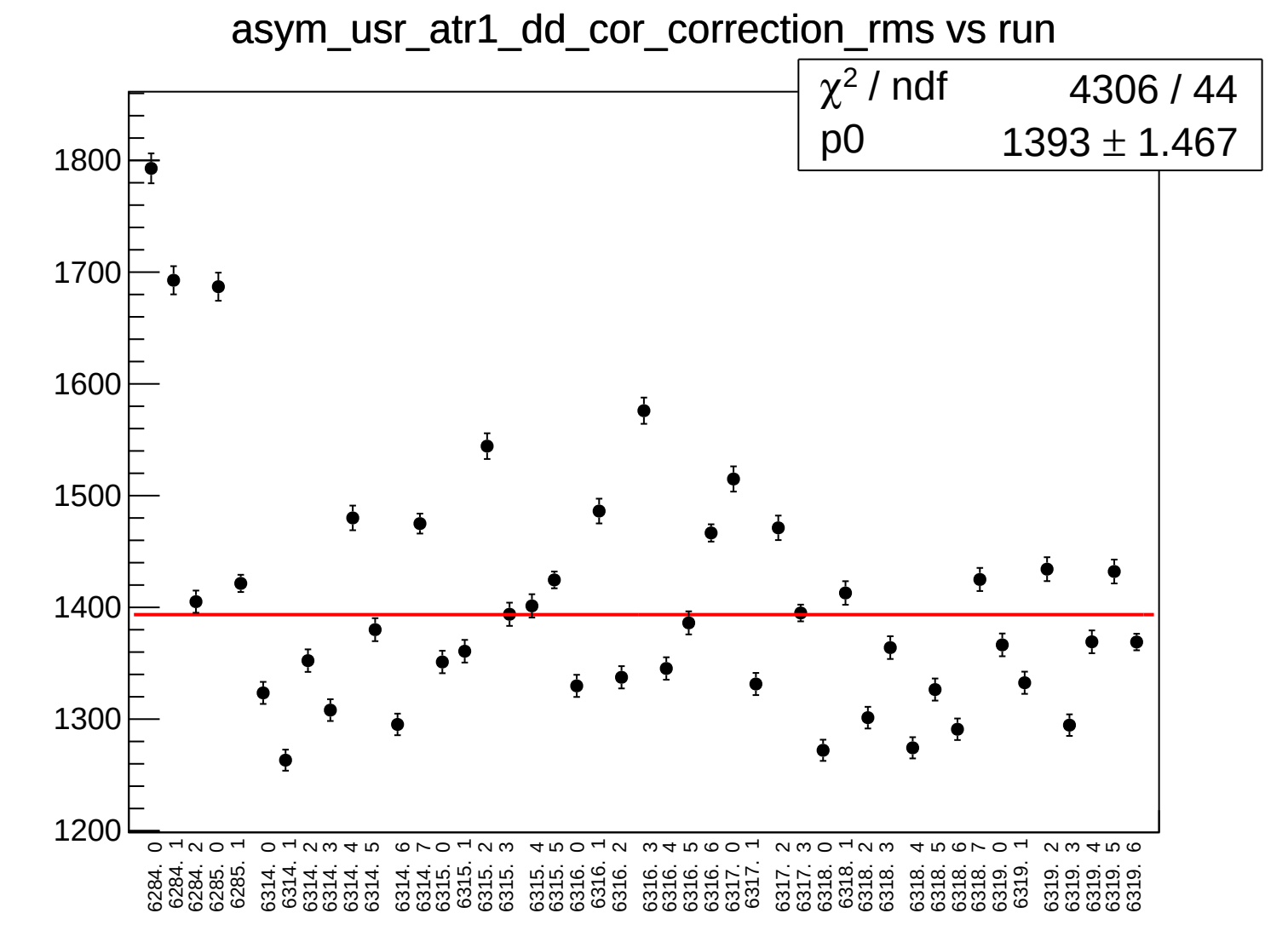
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4306 / 44
p0 1393 ± 1.467
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
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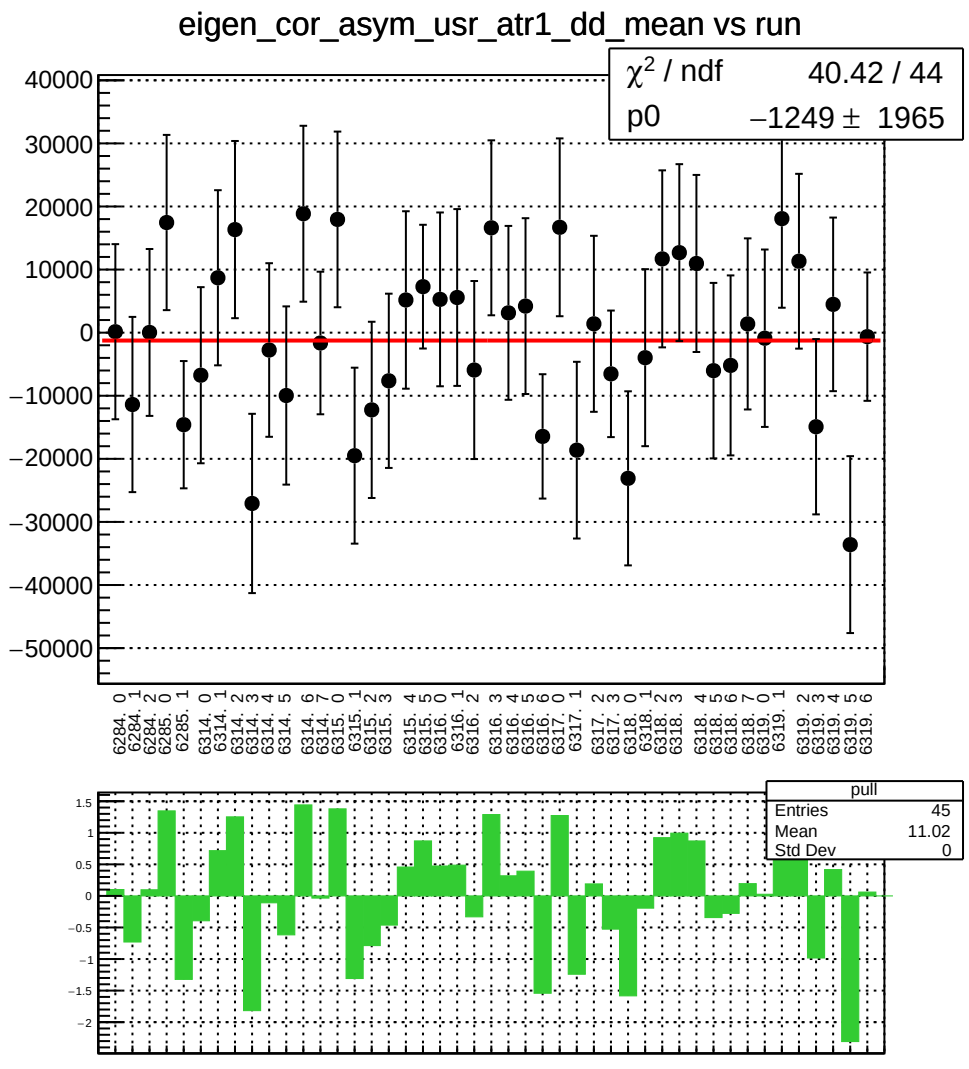
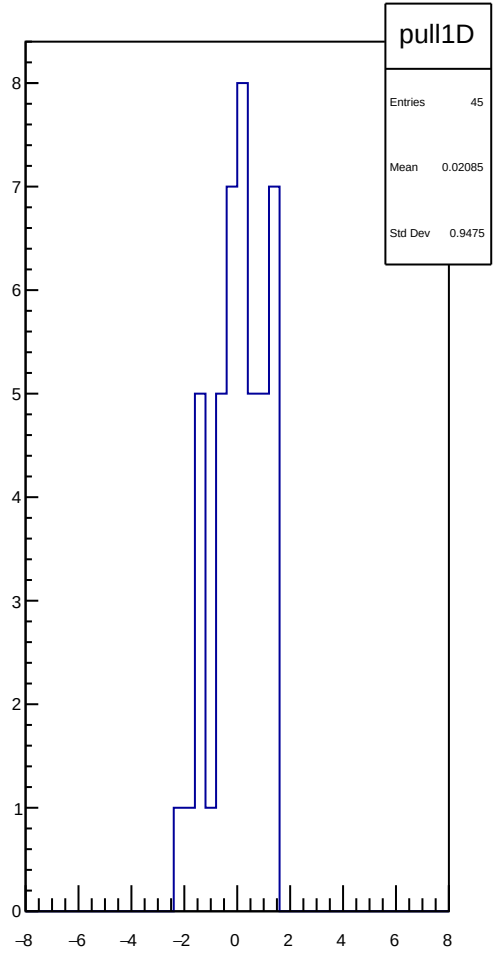
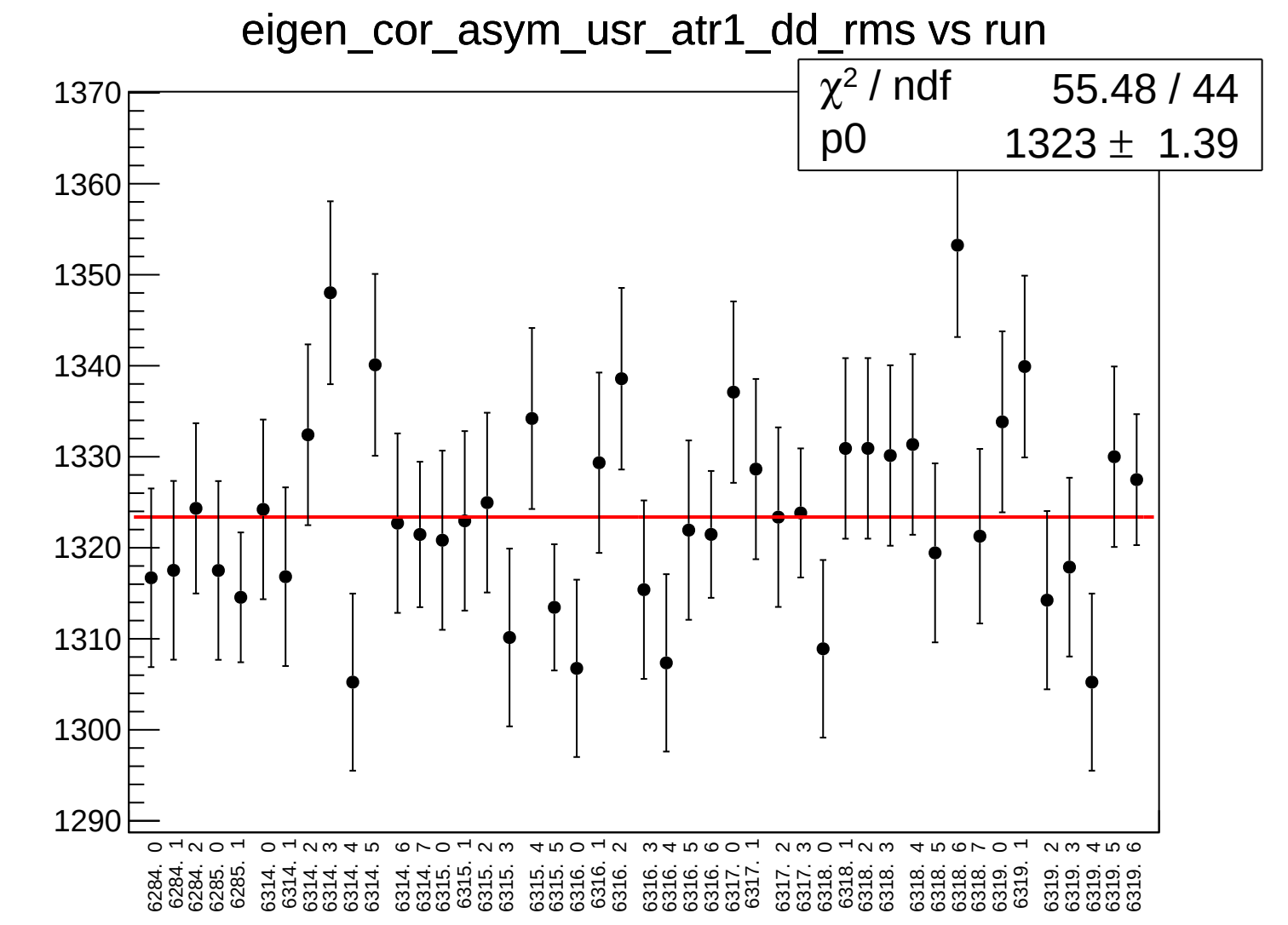
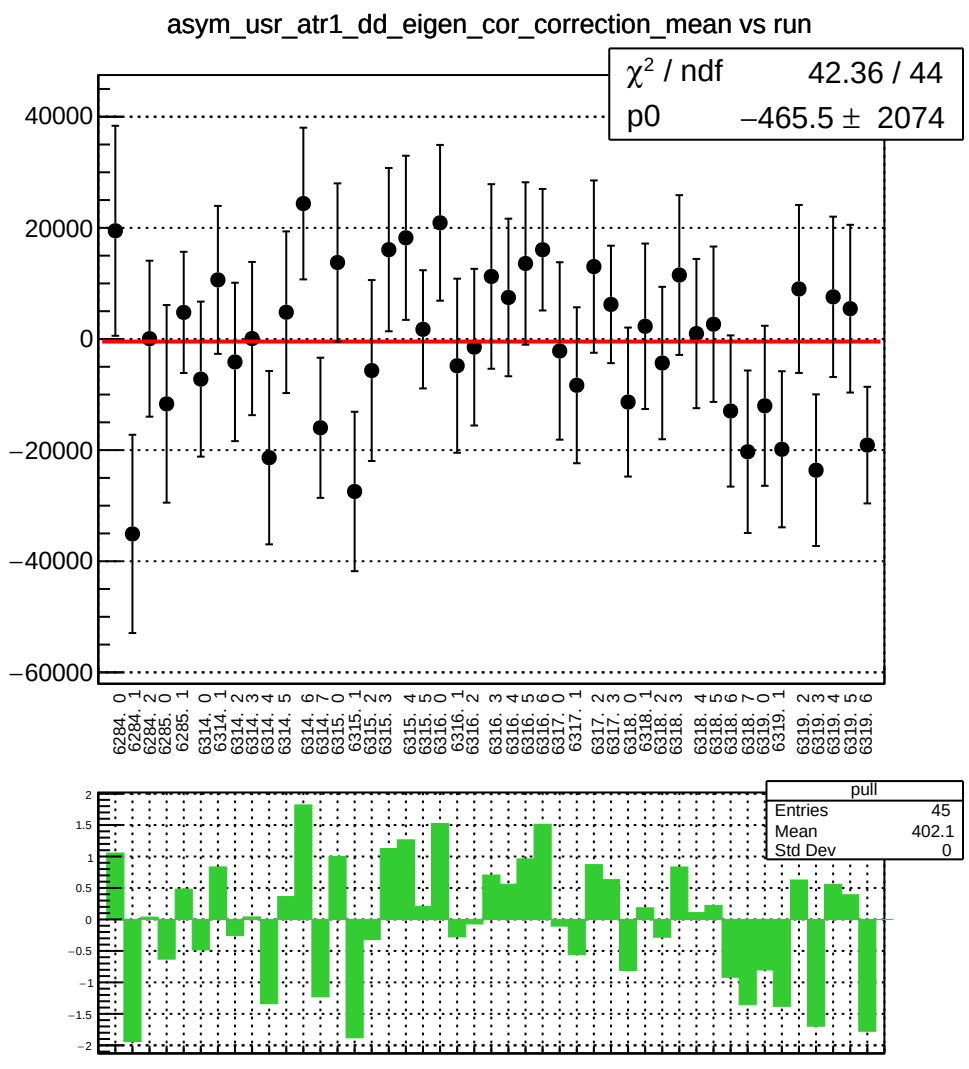

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 40.42 / 44
p0 −1249 ± 1965
pull
Entries 45
Mean 11.02
Std Dev 0


pull1D
Entries 45
Mean 0.02085
Std Dev 0.9475


eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 55.48 / 44
p0 1323 ± 1.39
1370
1360
1350
1340
1330
1320
1310
1300
1290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.36 / 44
p0 −465.5 ± 2074
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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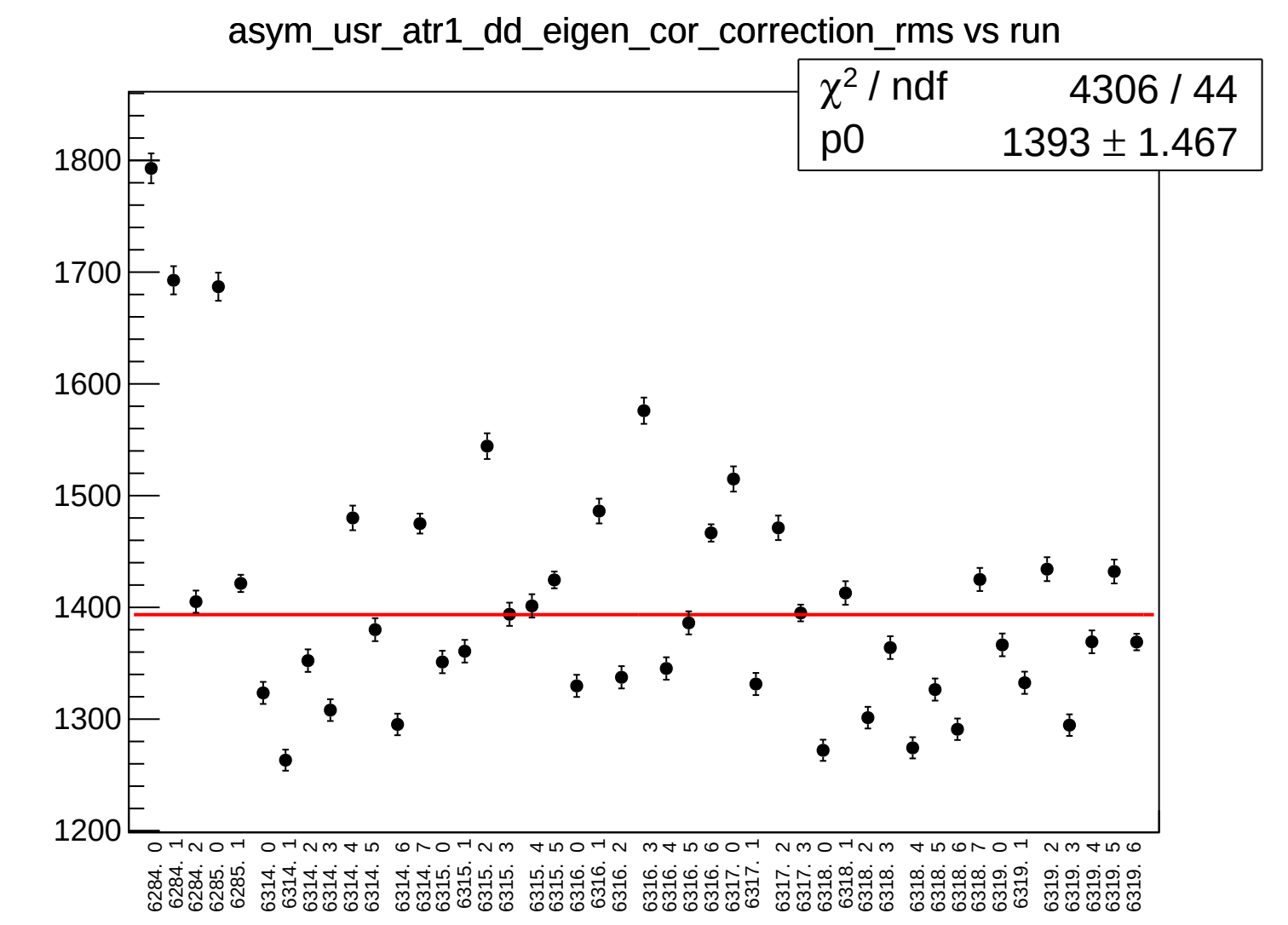
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 402.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.004502
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4306 / 44
p0 1393 ± 1.467
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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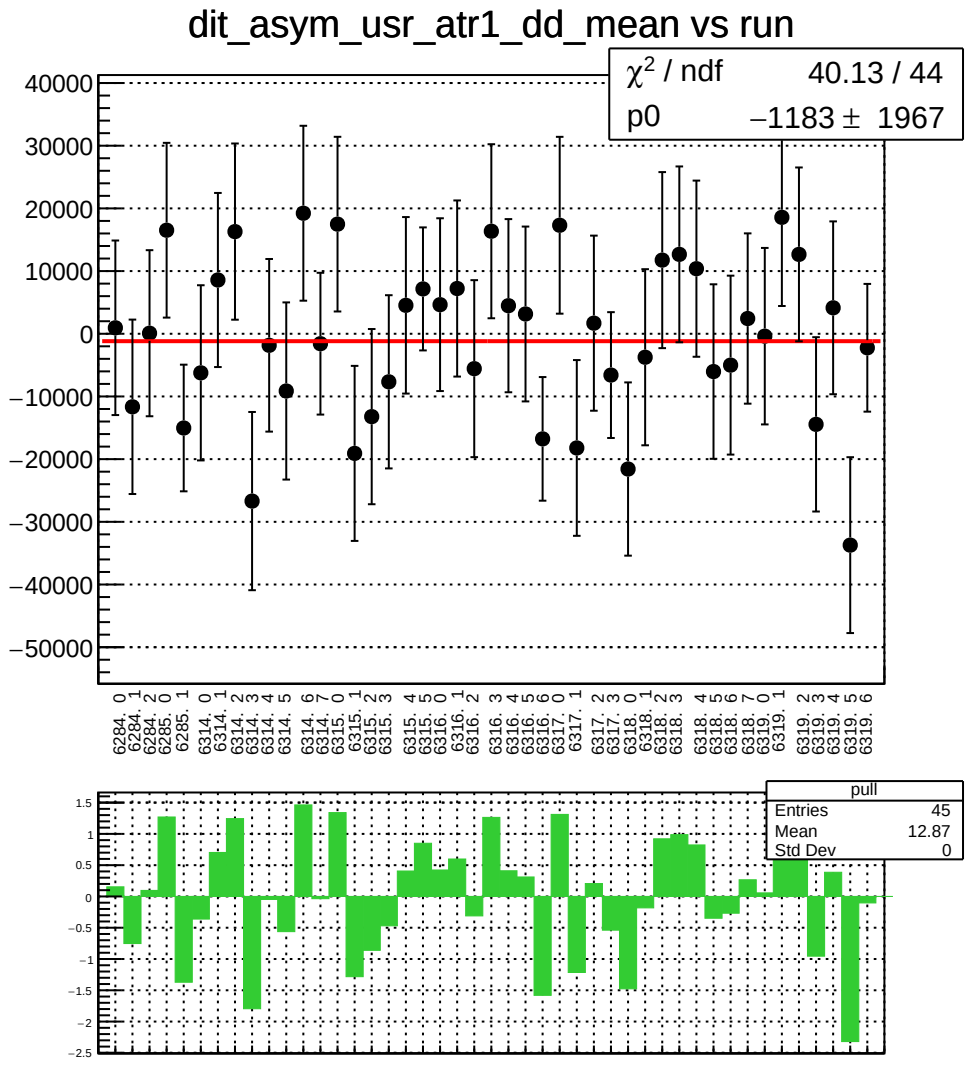
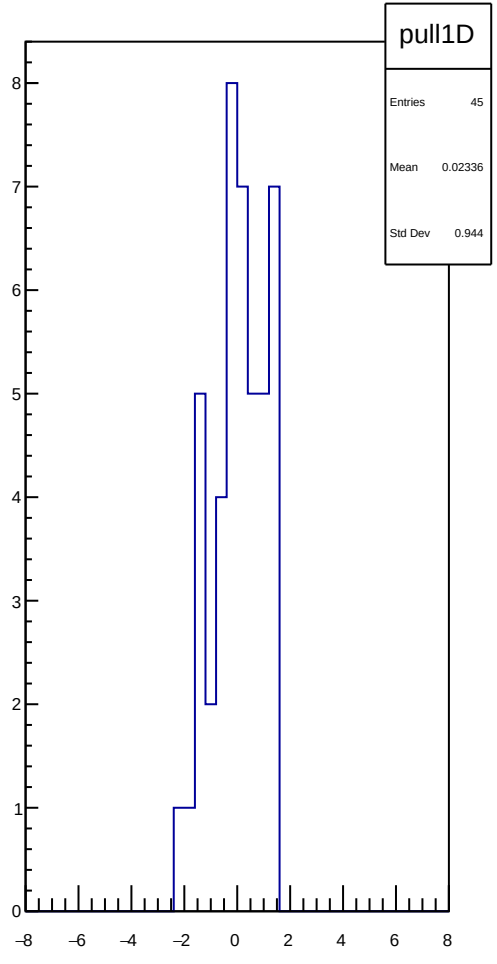
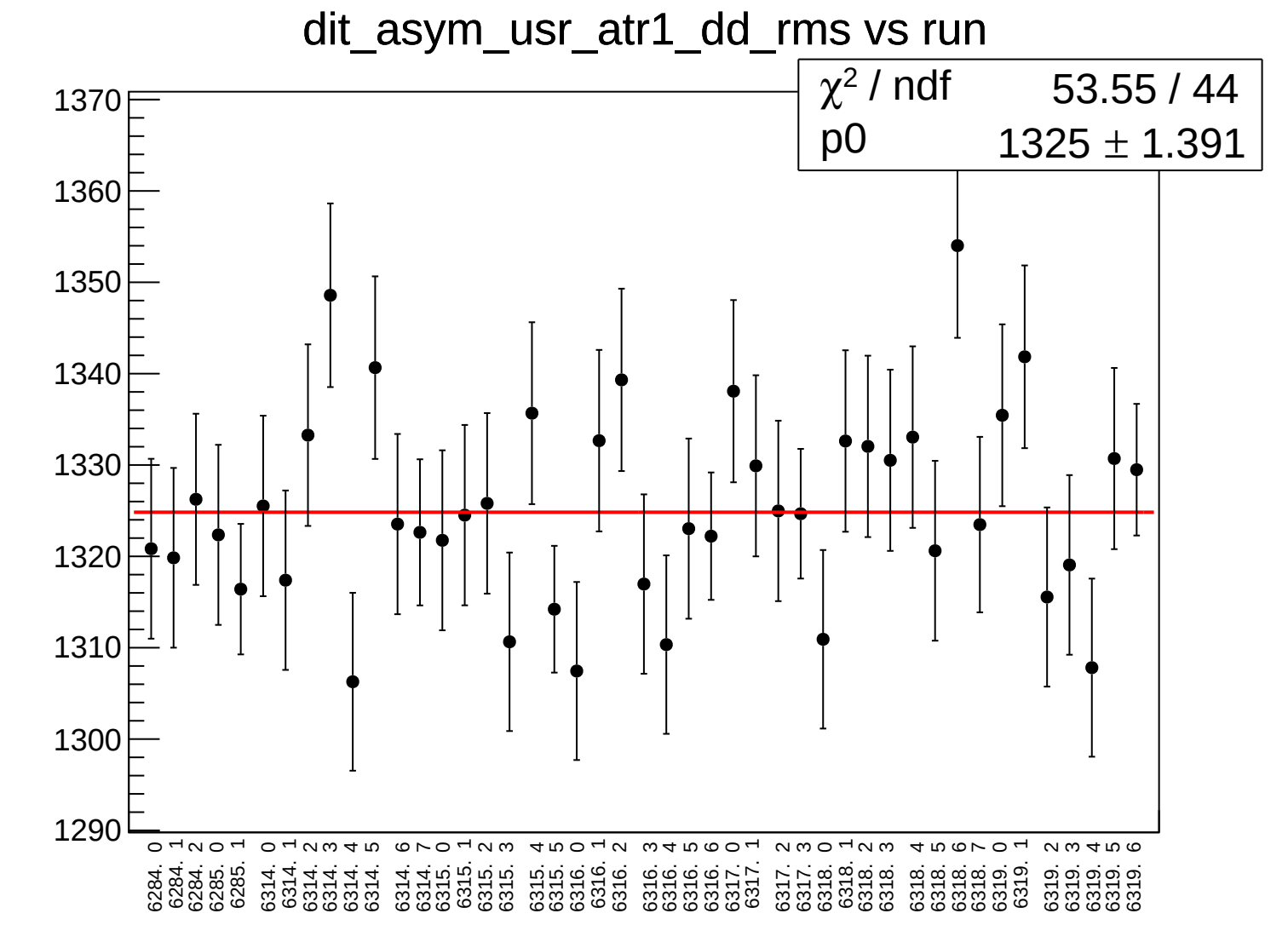
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 40.13 / 44
p0 −1183 ± 1967
pull
Entries 45
Mean 12.87
Std Dev 0


pull1D
Entries 45
Mean 0.02336
Std Dev 0.944


dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 53.55 / 44
p0 1325 ± 1.391
1370
1360
1350
1340
1330
1320
1310
1300
1290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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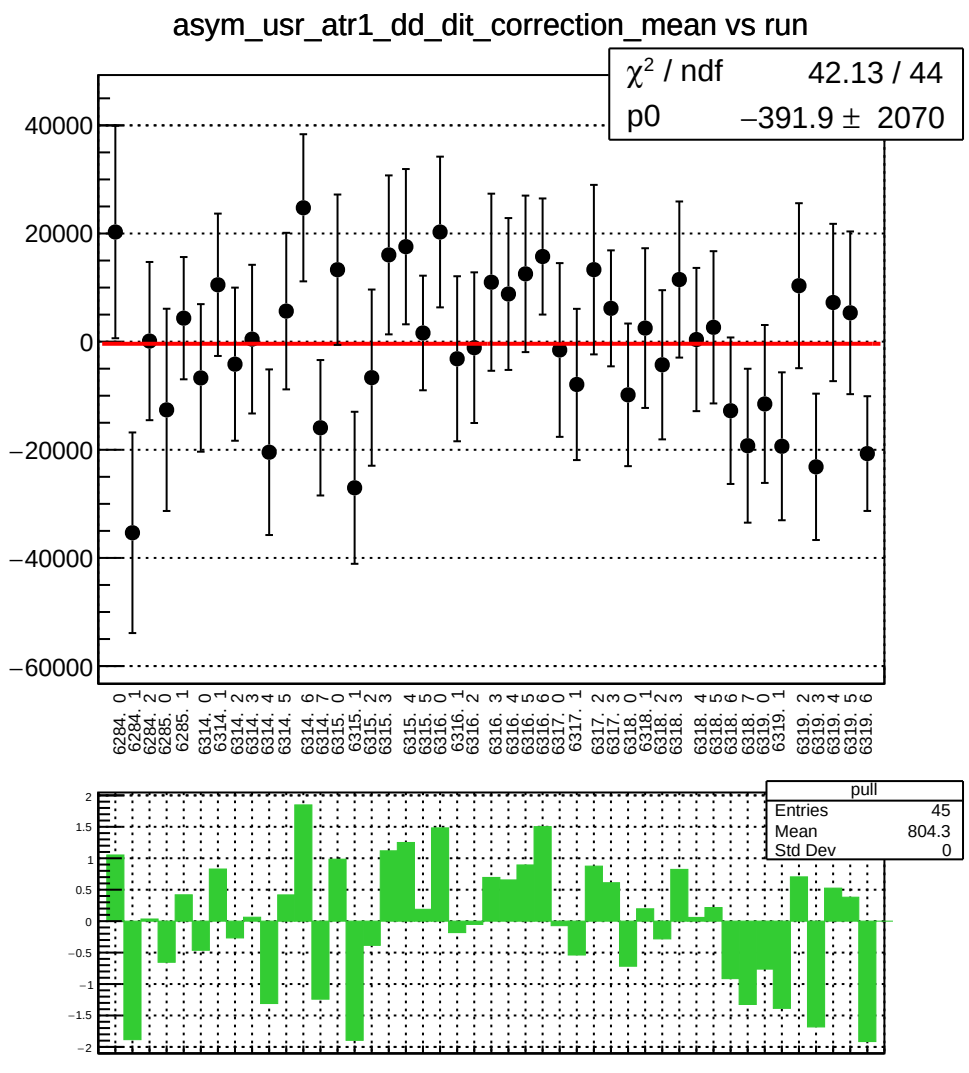
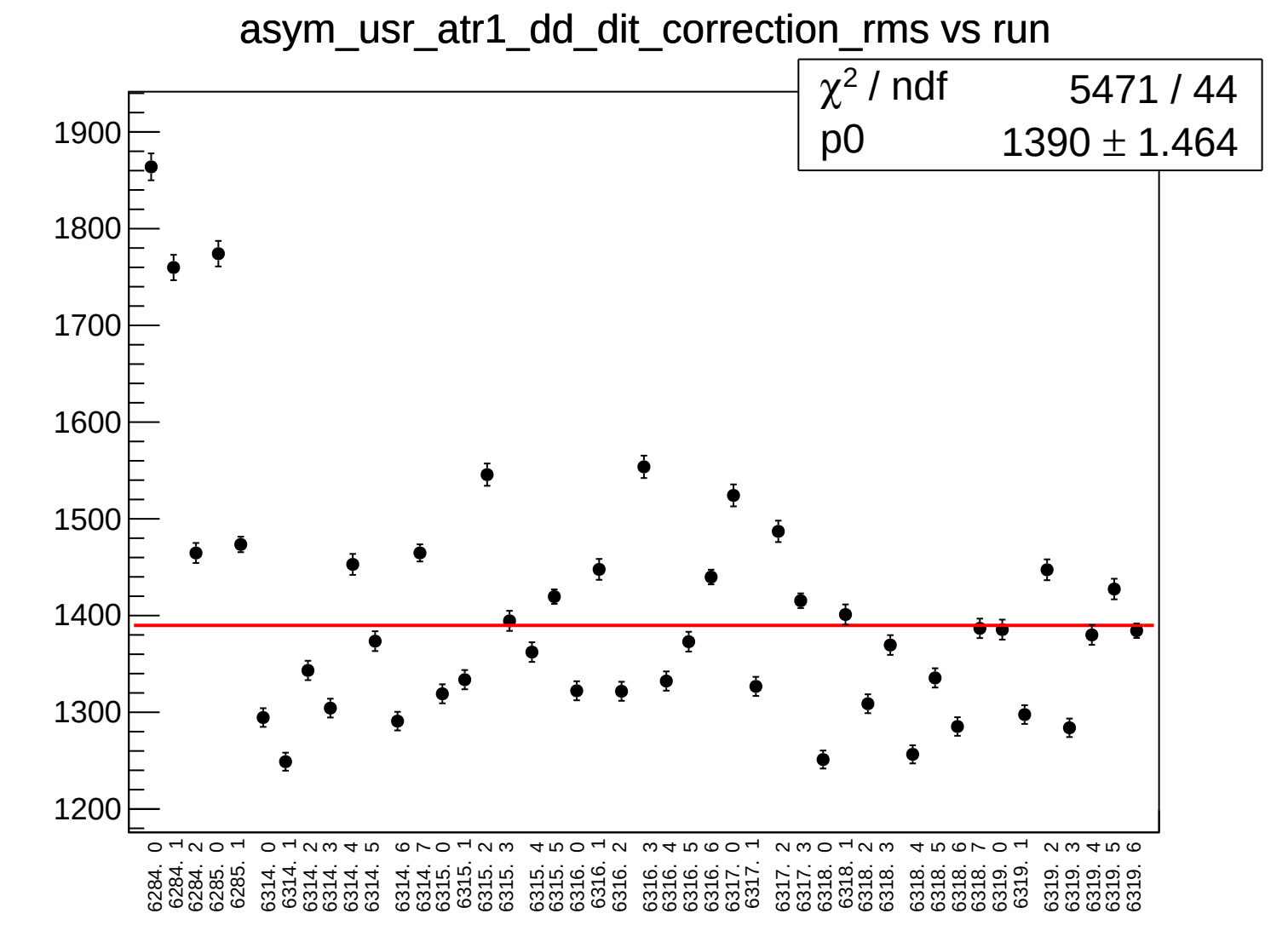
6319. 5
6319. 6


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 42.13 / 44
p0 −391.9 ± 2070
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 804.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002227
Std Dev 0.9676
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5471 / 44
p0 1390 ± 1.464
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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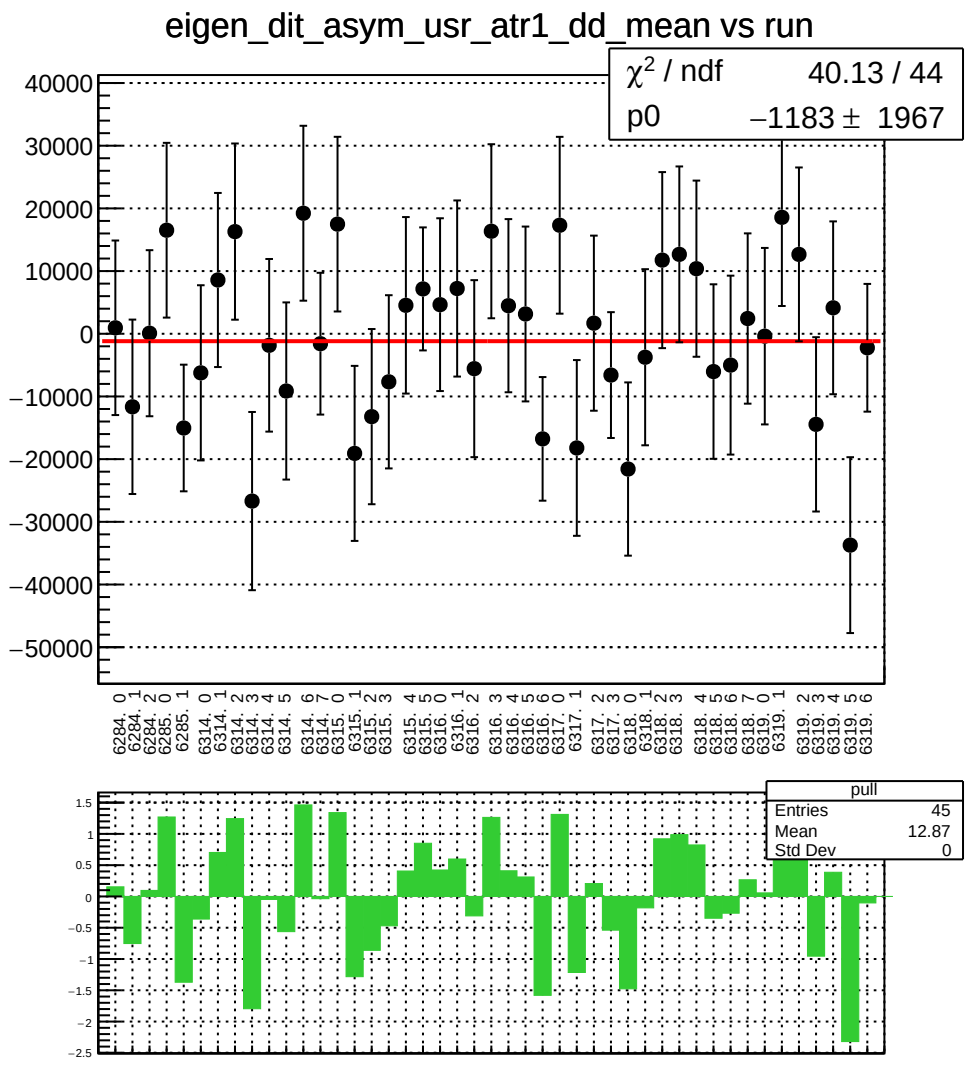
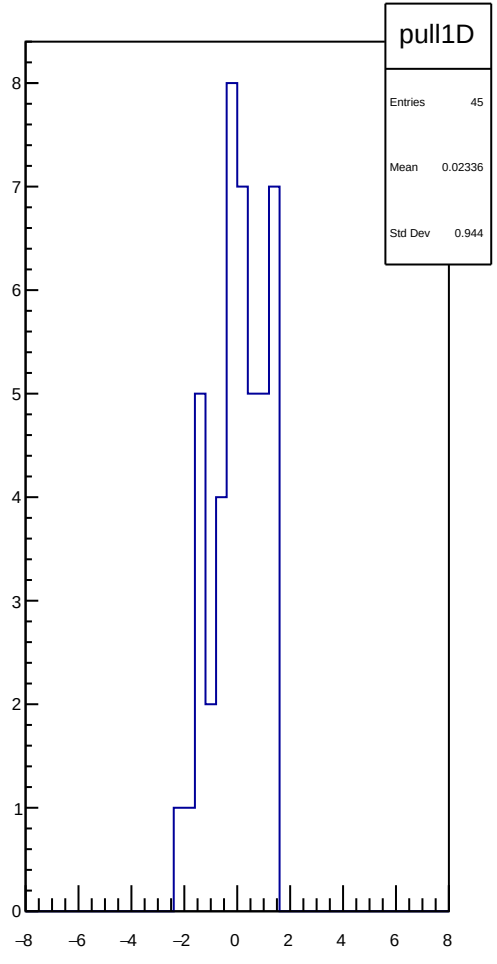
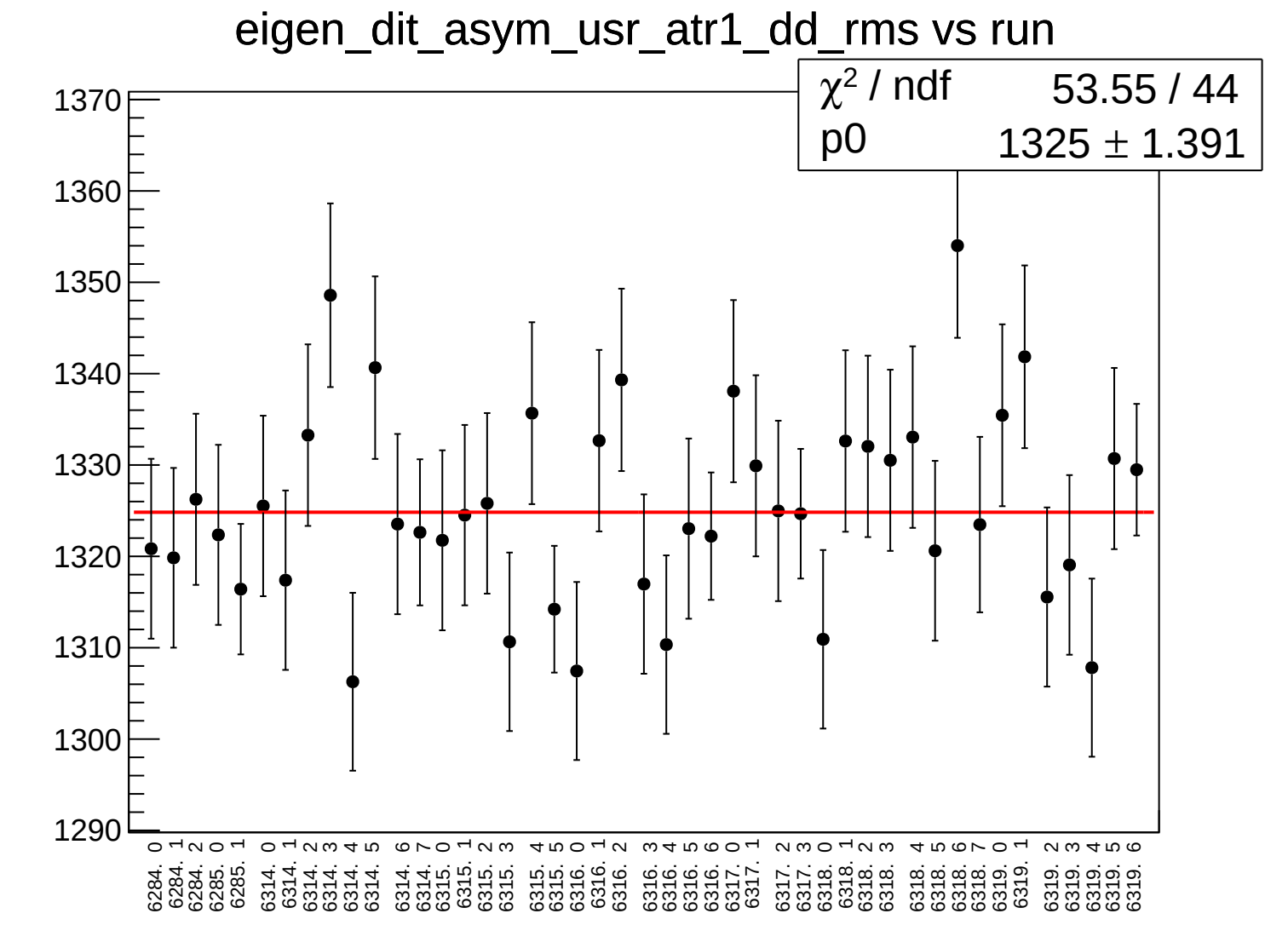
6319. 5
6319. 6


eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 40.13 / 44
p0 −1183 ± 1967
pull
Entries 45
Mean 12.87
Std Dev 0


pull1D
Entries 45
Mean 0.02336
Std Dev 0.944


eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 53.55 / 44
p0 1325 ± 1.391
1370
1360
1350
1340
1330
1320
1310
1300
1290
6284. 0
6284. 1
6284. 2
6285. 0
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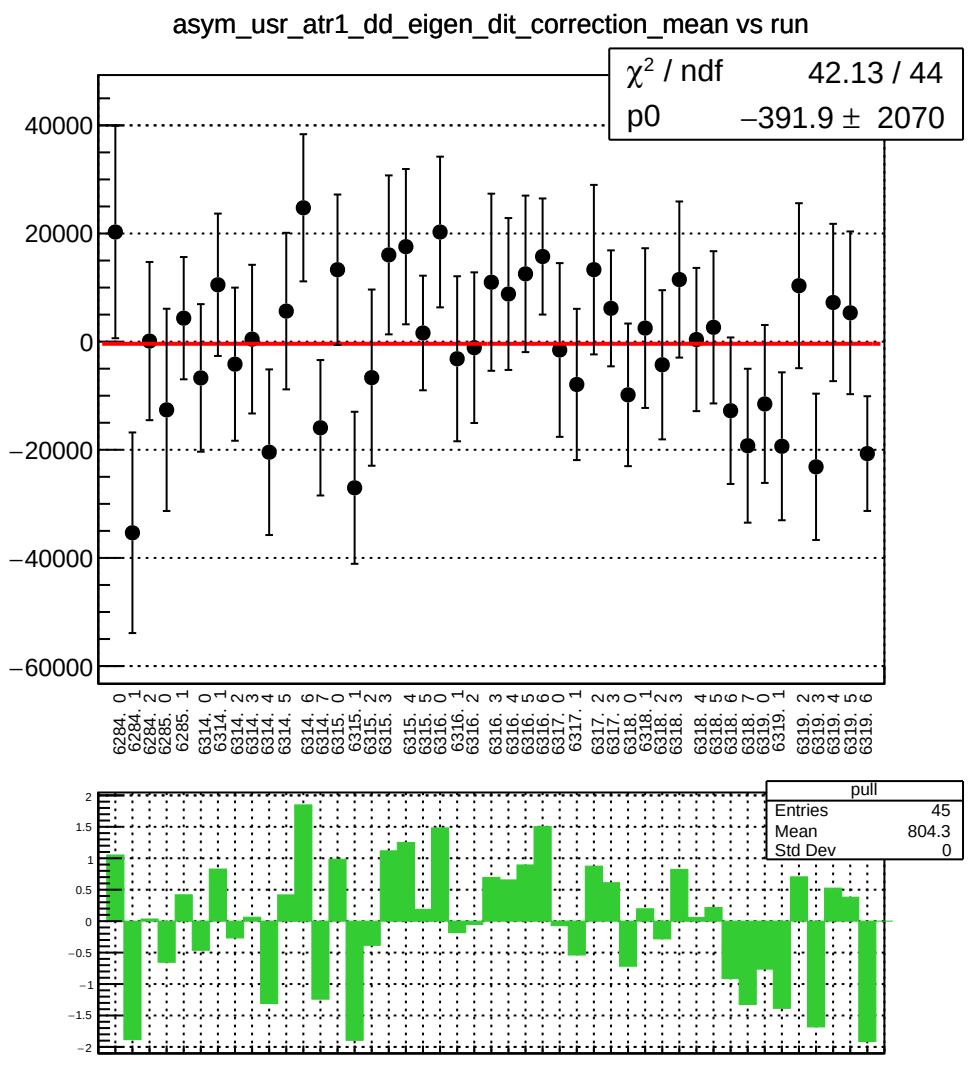
asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.13 / 44
p0 −391.9 ± 2070
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
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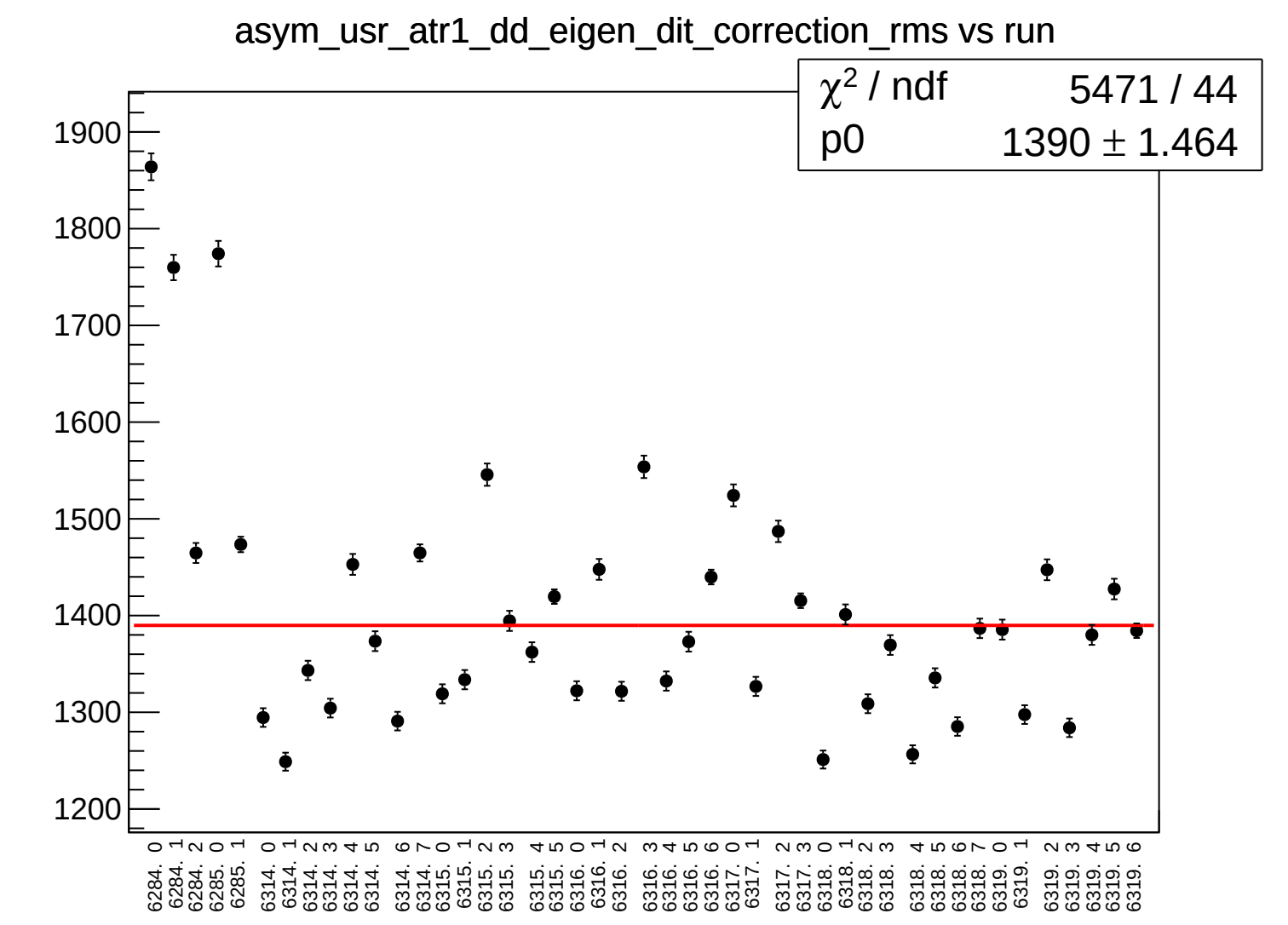
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 804.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002227
Std Dev 0.9676
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5471 / 44
p0 1390 ± 1.464
1900
1800
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 2
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6319. 2
6319. 3
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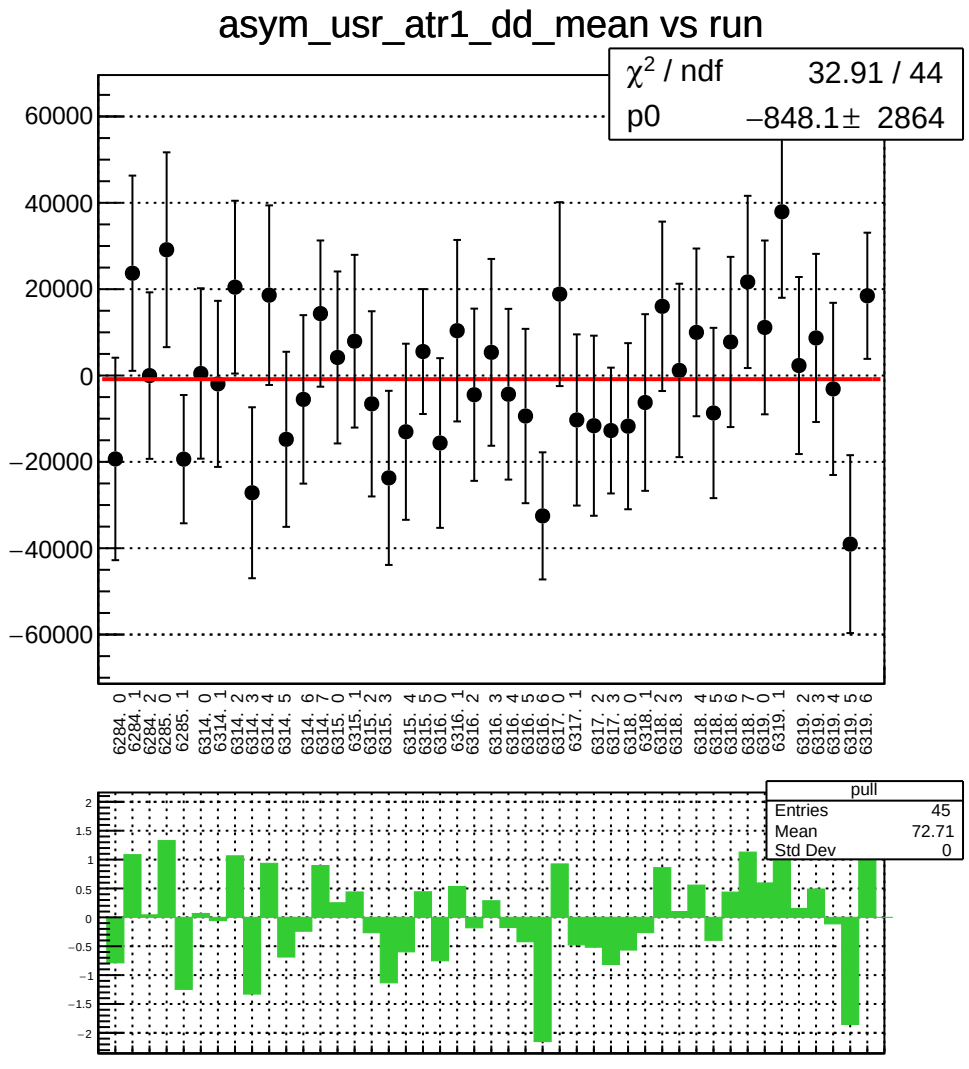
6319. 5
6319. 6


asym_usr_atr1_dd_mean vs run
χ² / ndf 32.91 / 44
p0 −848.1± 2864
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
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6316. 0
6316. 1
6316. 2
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6318. 1
6318. 2
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6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 72.71
Std Dev 0
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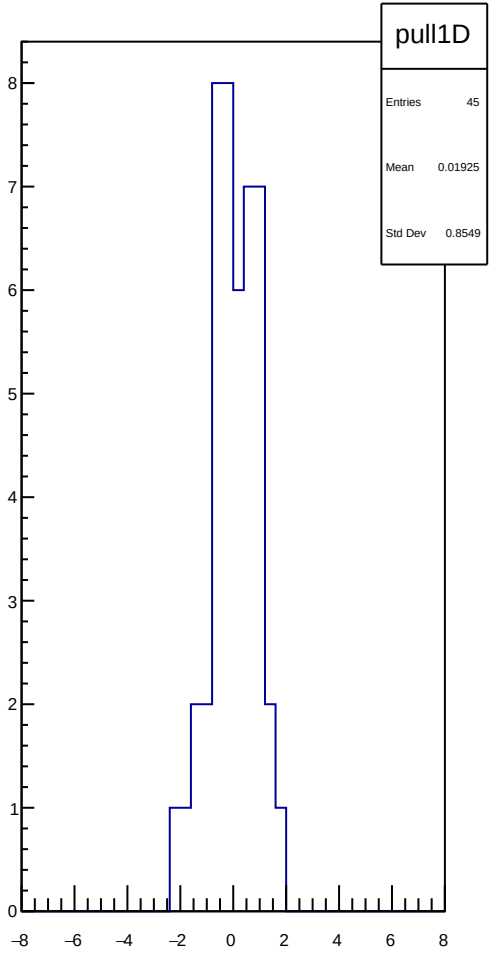
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01925
Std Dev 0.8549
8
7
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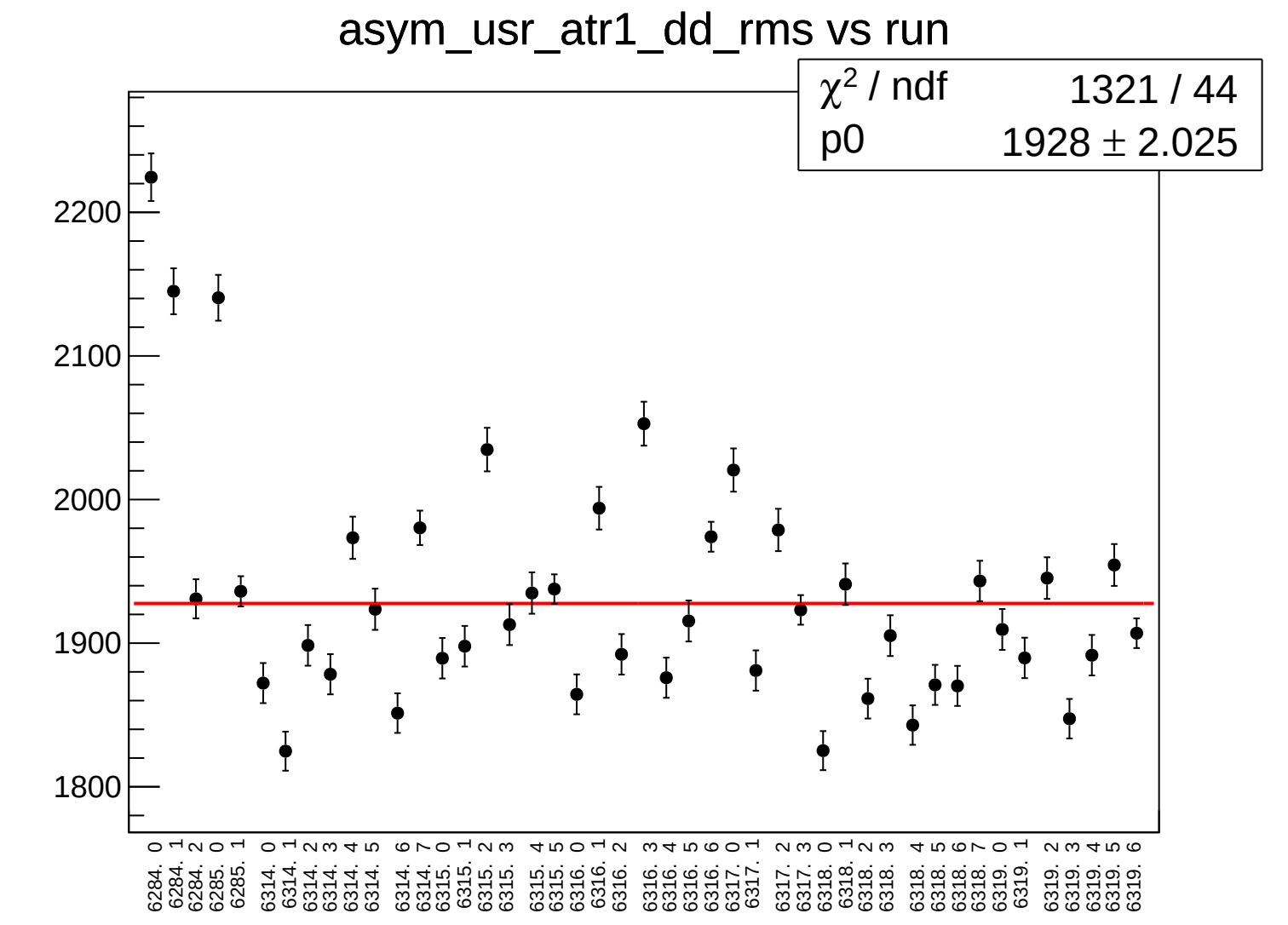
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_rms vs run
χ² / ndf 1321 / 44
p0 1928 ± 2.025
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
6319. 1
6319. 2
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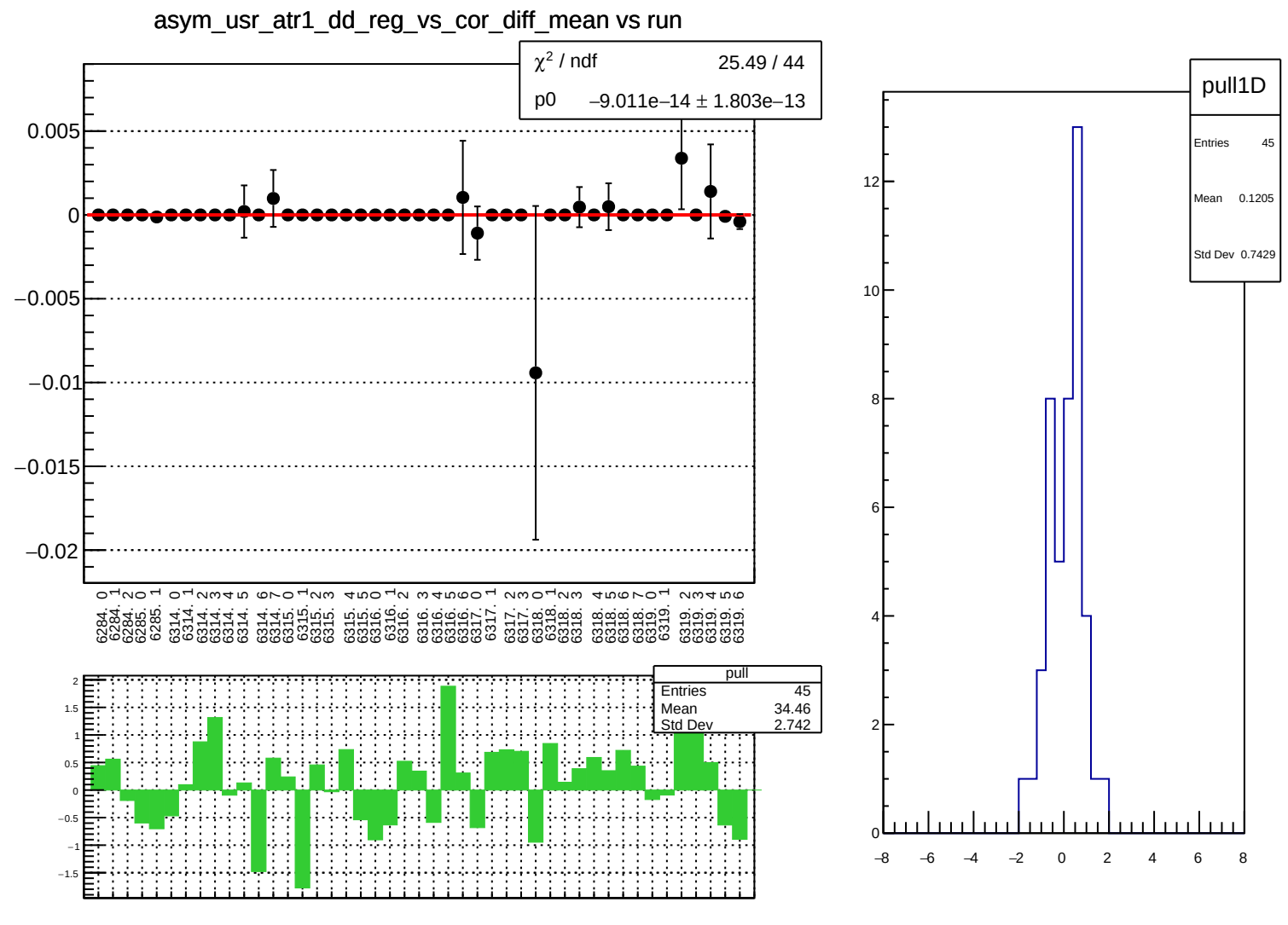
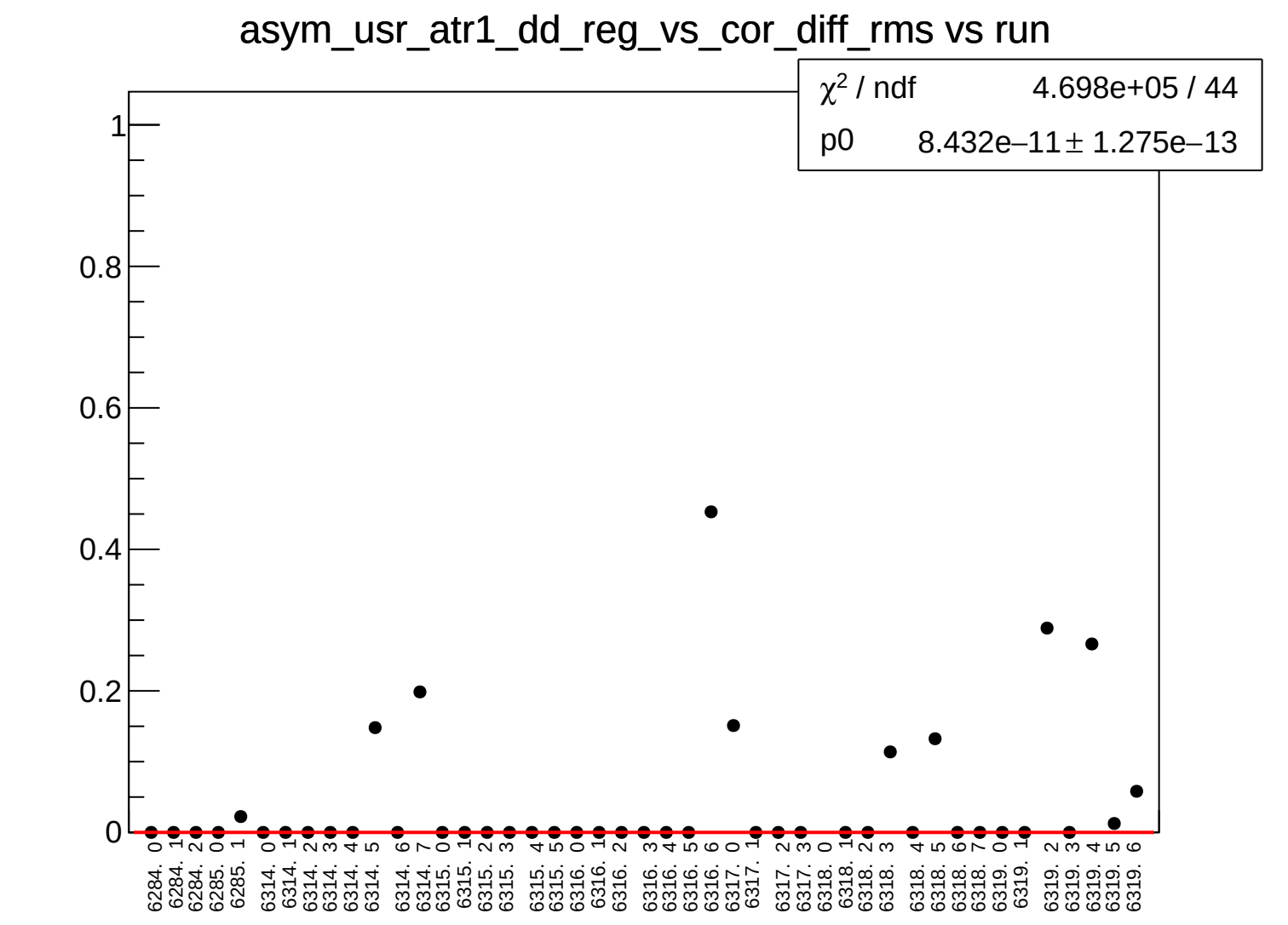
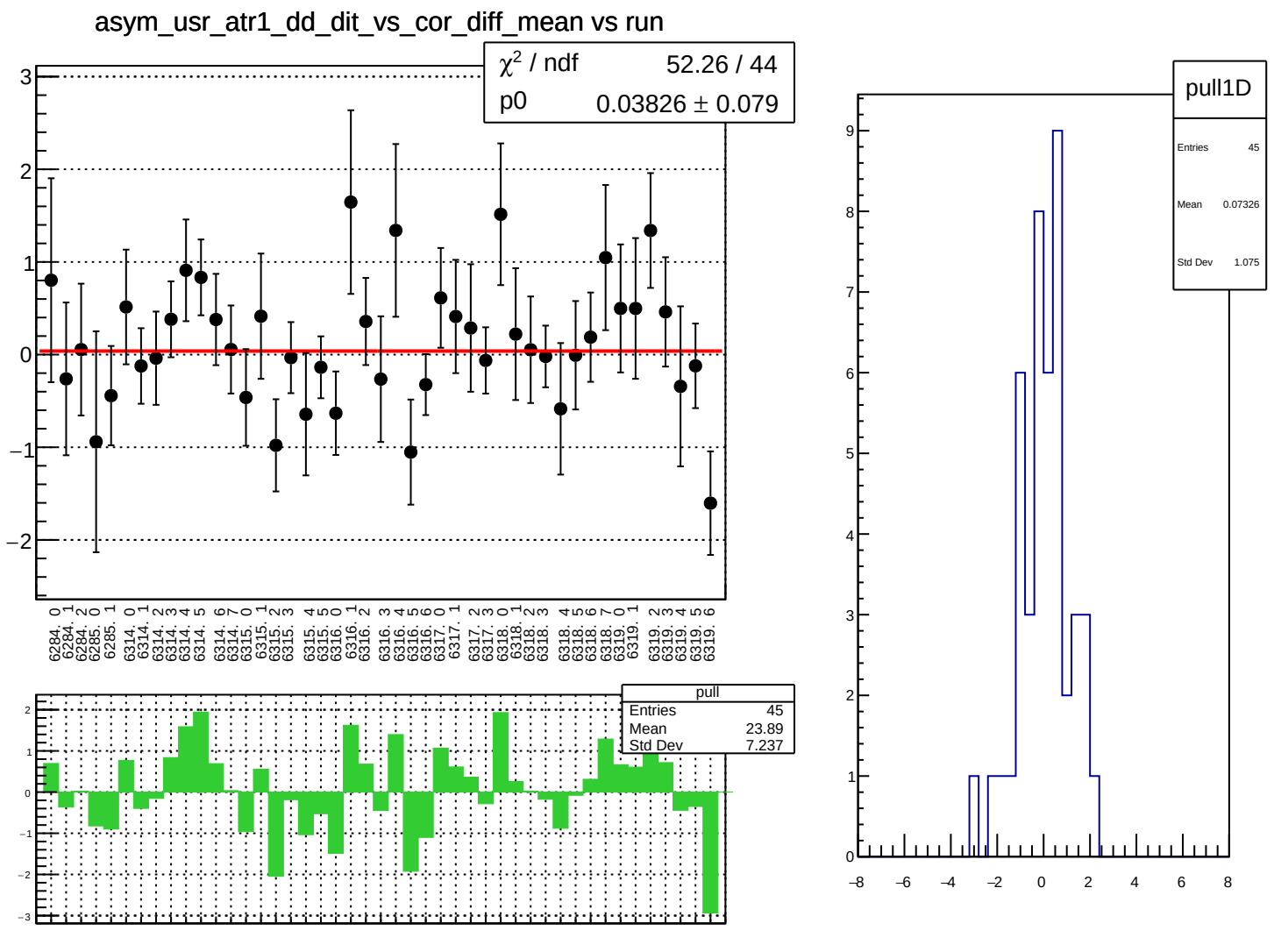
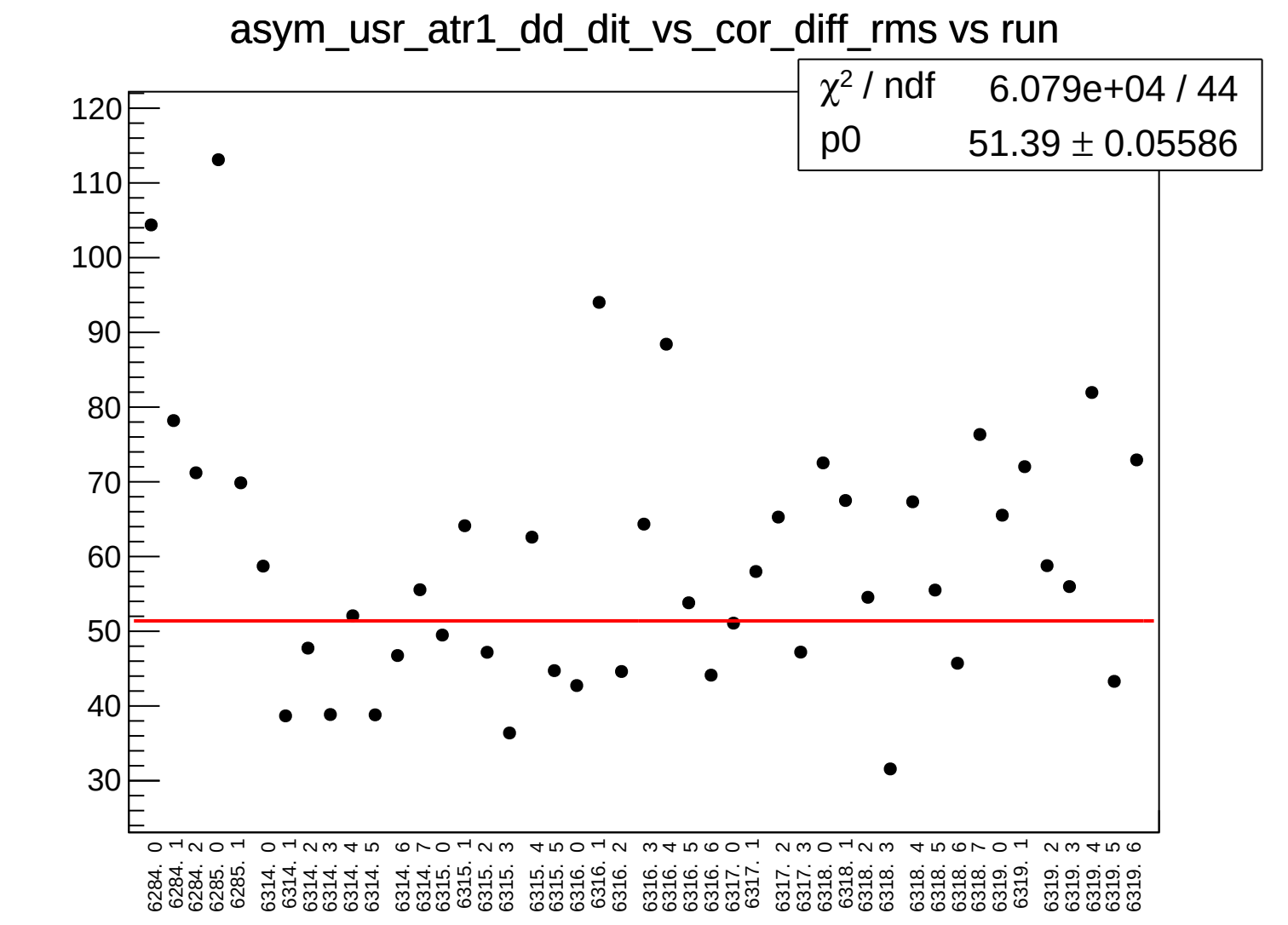
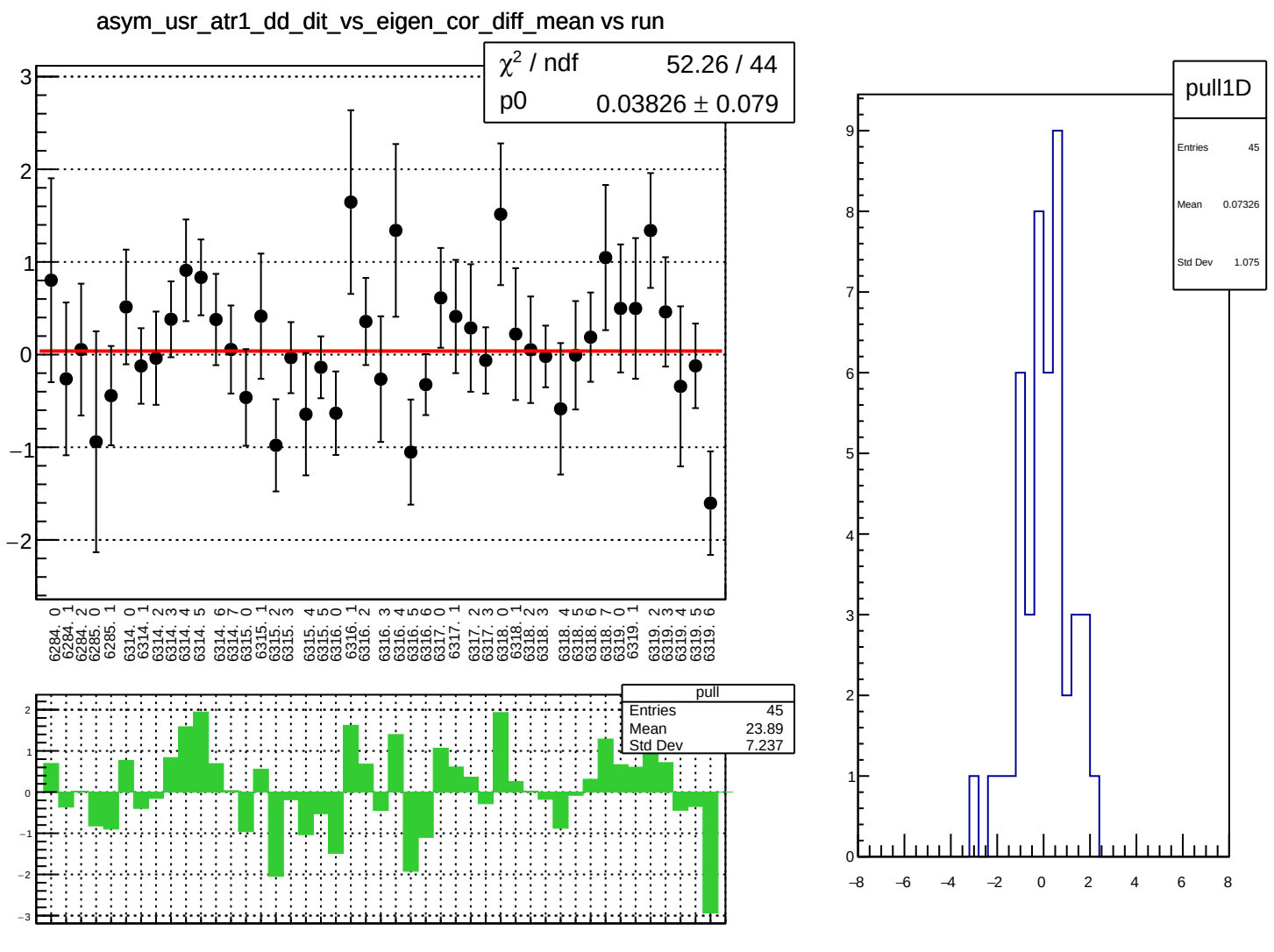
6319. 5
6319. 6

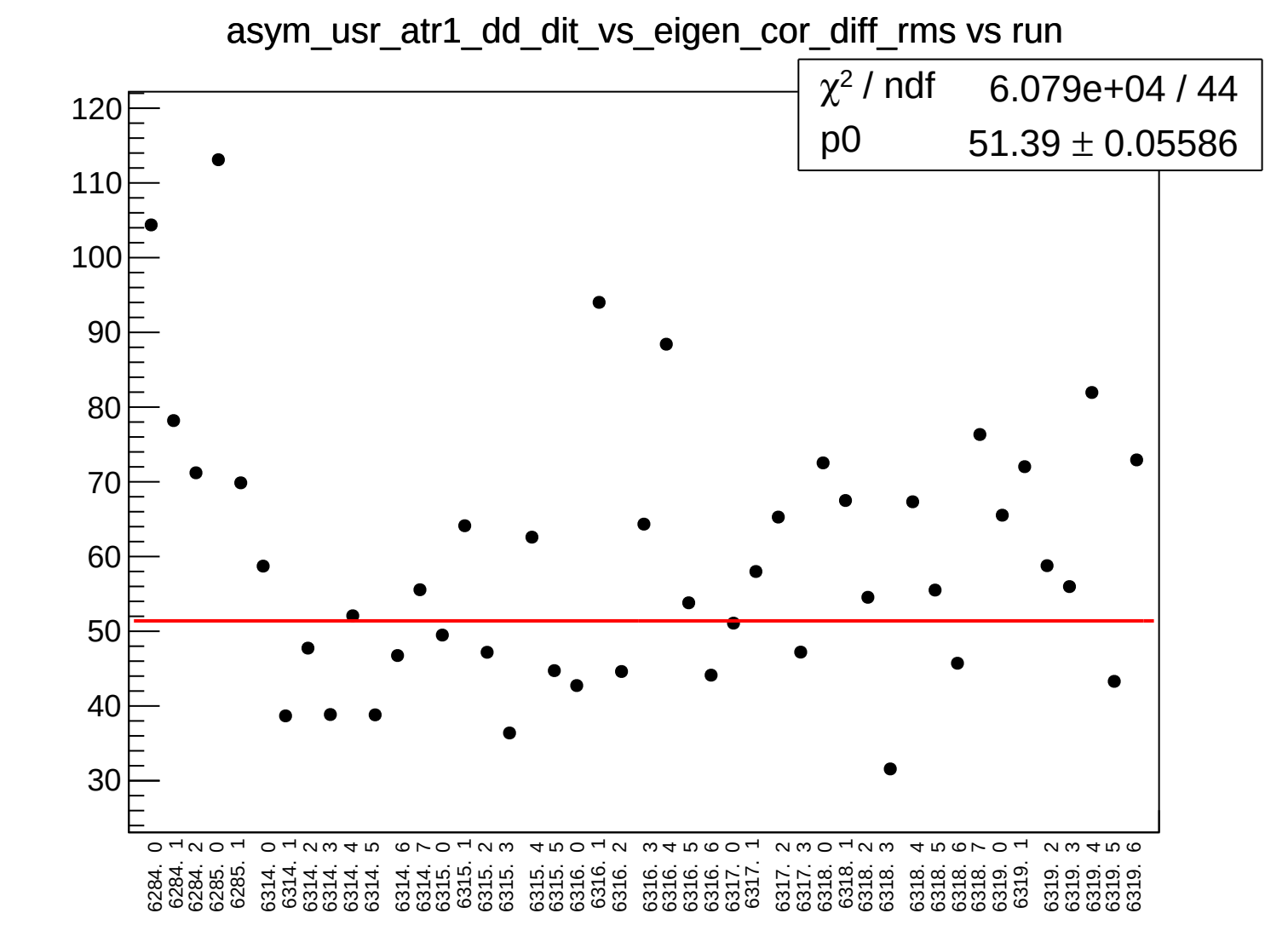

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.49 / 44
p0 −9.011e−14 ± 1.803e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 34.46
Std Dev 2.742
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.1205
Std Dev 0.7429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

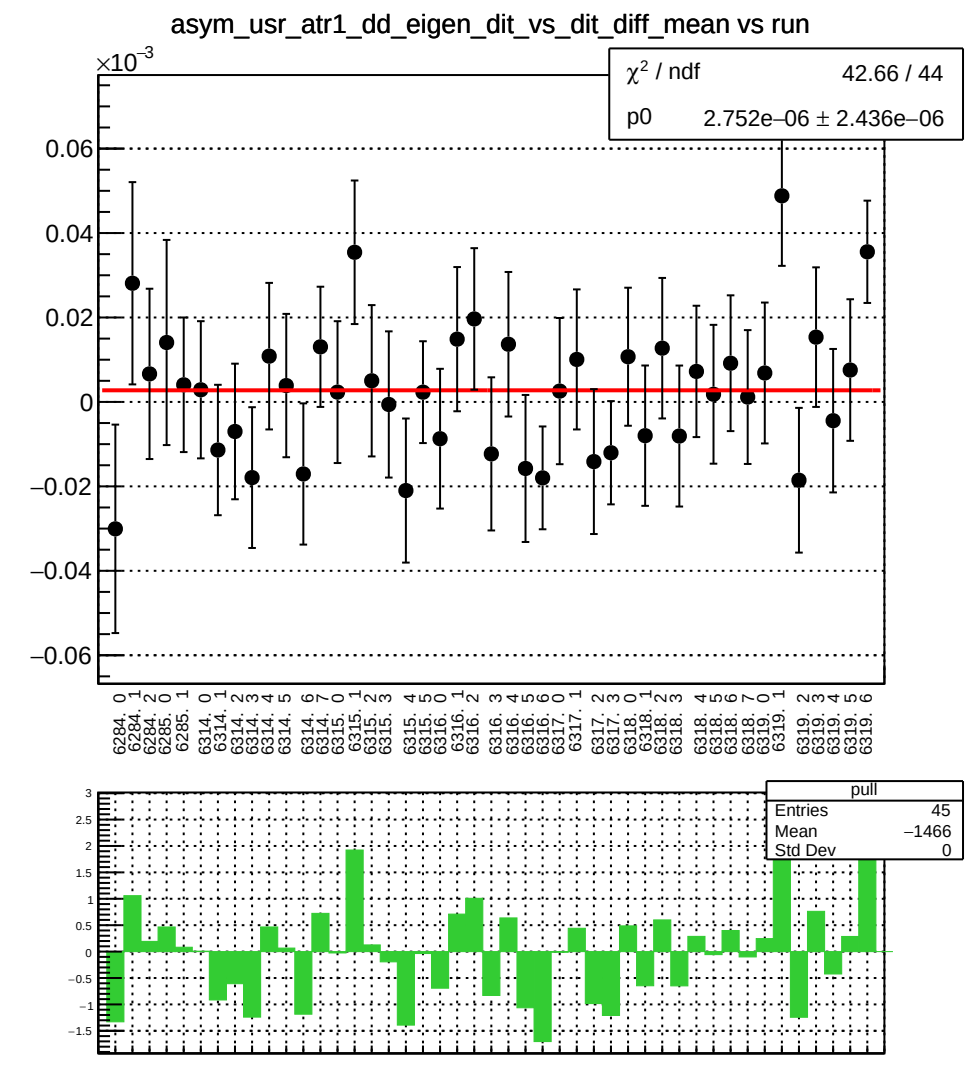

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.698e+05 / 44
p0 8.432e−11 ± 1.275e−13
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

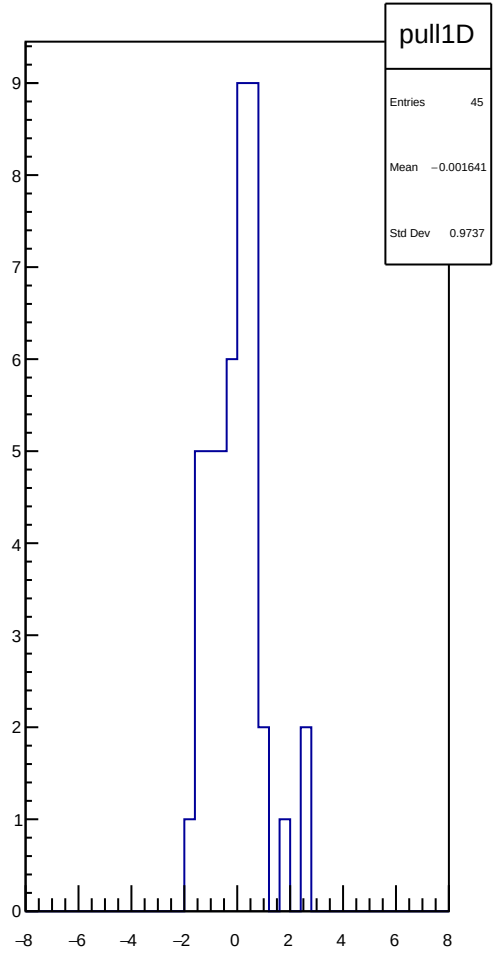

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.26 / 44
p0 0.03826 ± 0.079
pull
Entries 45
Mean 23.89
Std Dev 7.237
pull1D
Entries 45
Mean 0.07326
Std Dev 1.075

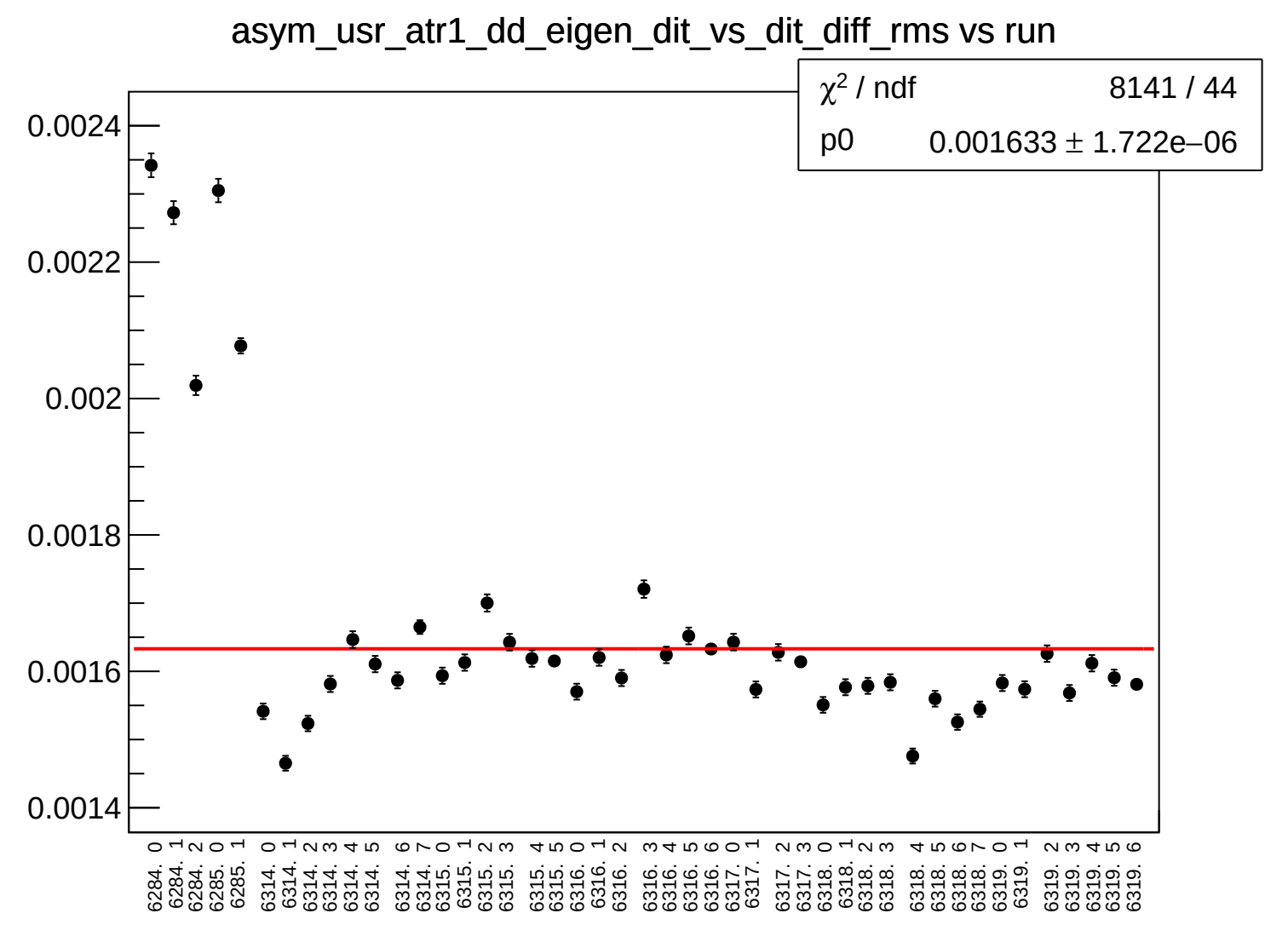

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.079e+04 / 44
p0 51.39 ± 0.05586
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

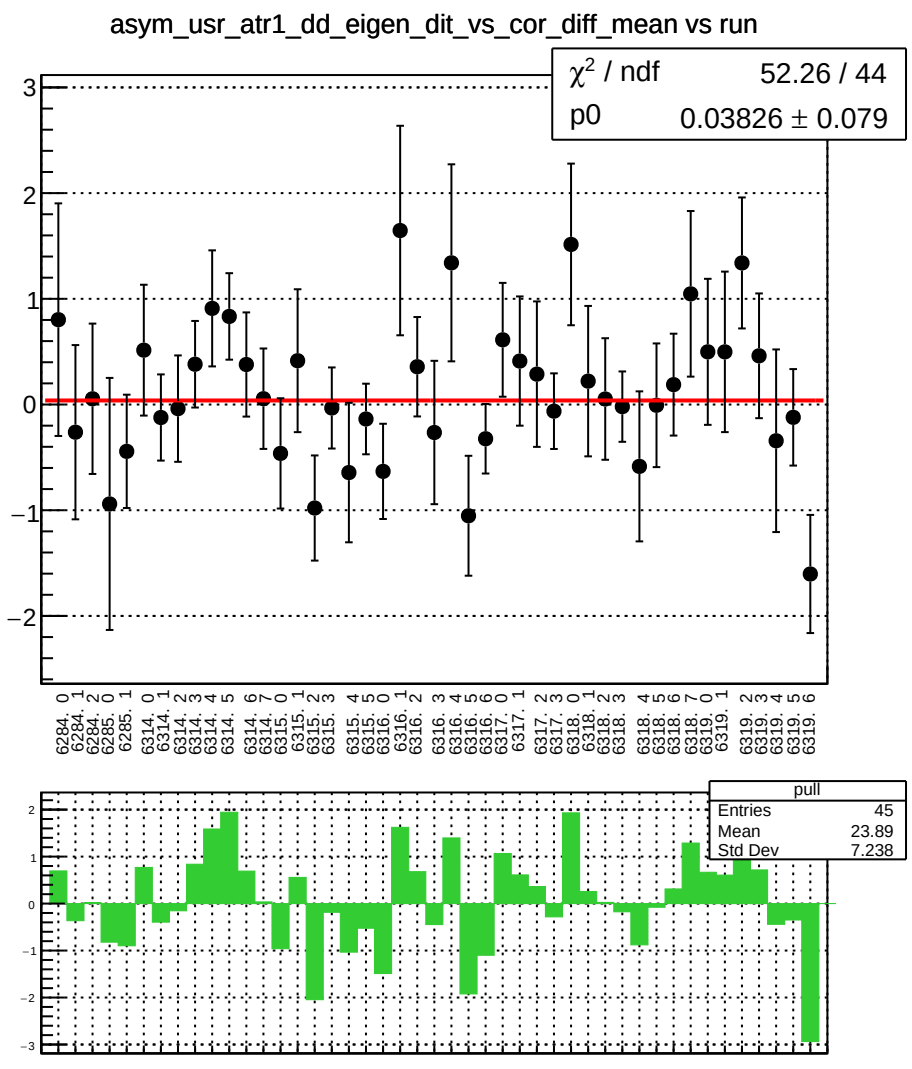

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.26 / 44
p0 0.03826 ± 0.079
pull
Entries 45
Mean 23.89
Std Dev 7.237
pull1D
Entries 45
Mean 0.07326
Std Dev 1.075

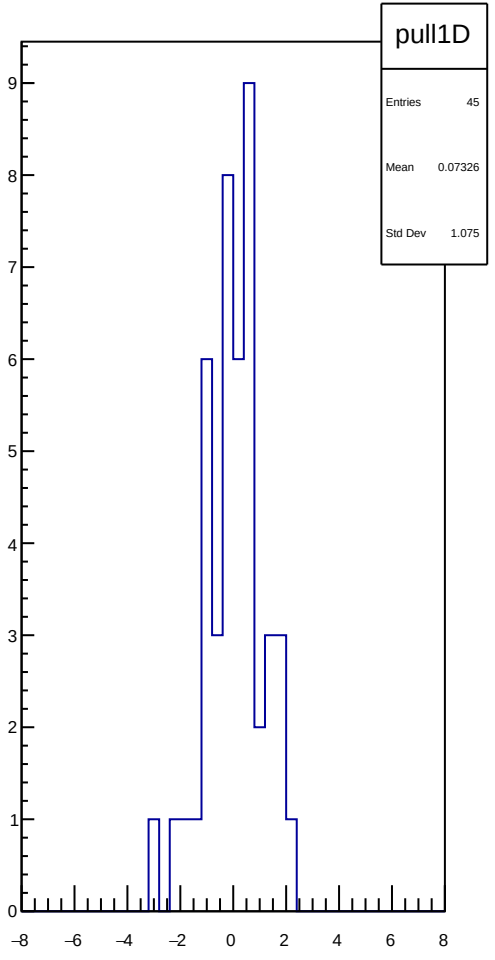

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.079e+04 / 44
p0 51.39 ± 0.05586
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

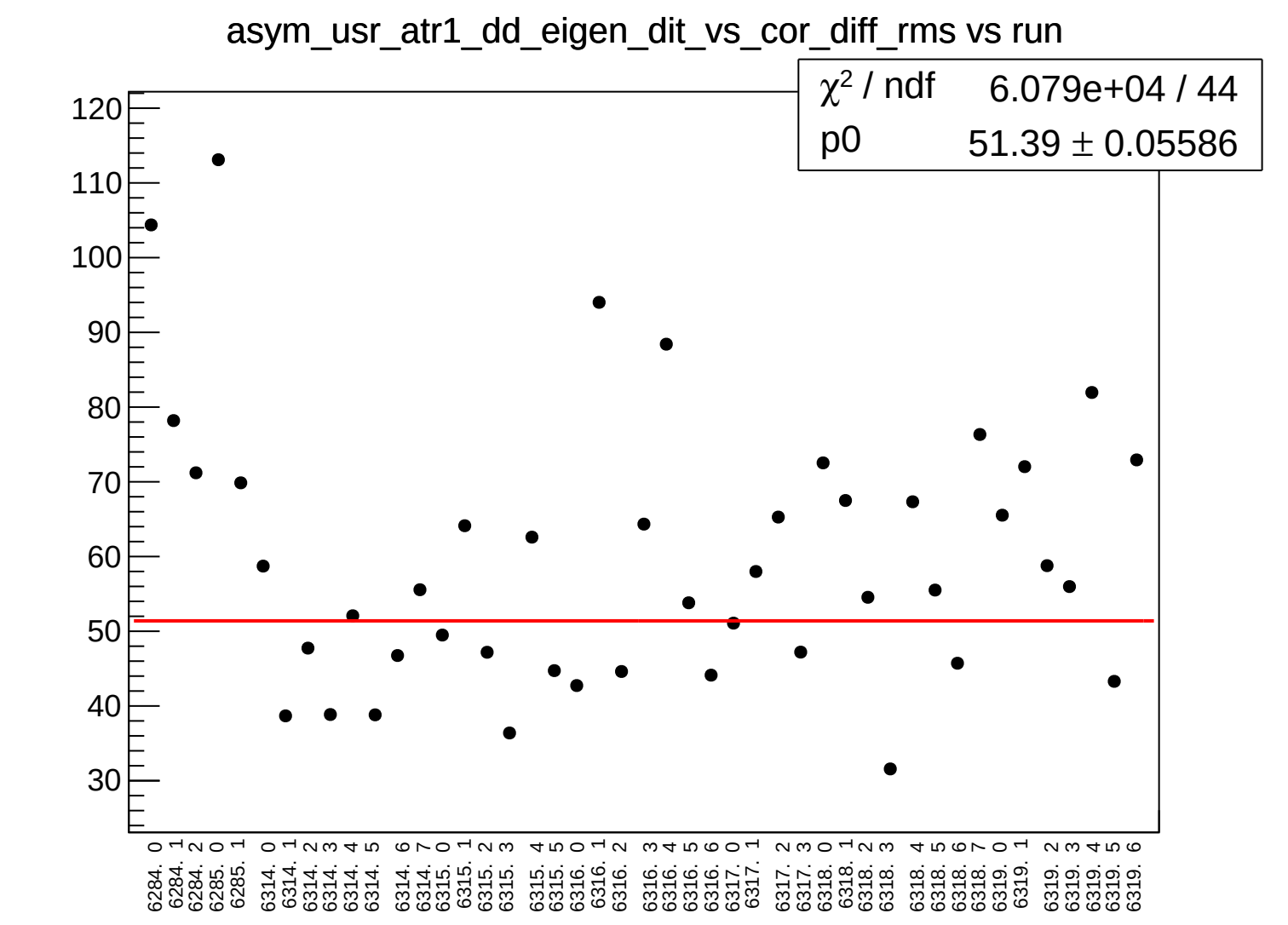

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.66 / 44
p0 2.752e−06 ± 2.436e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1466
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

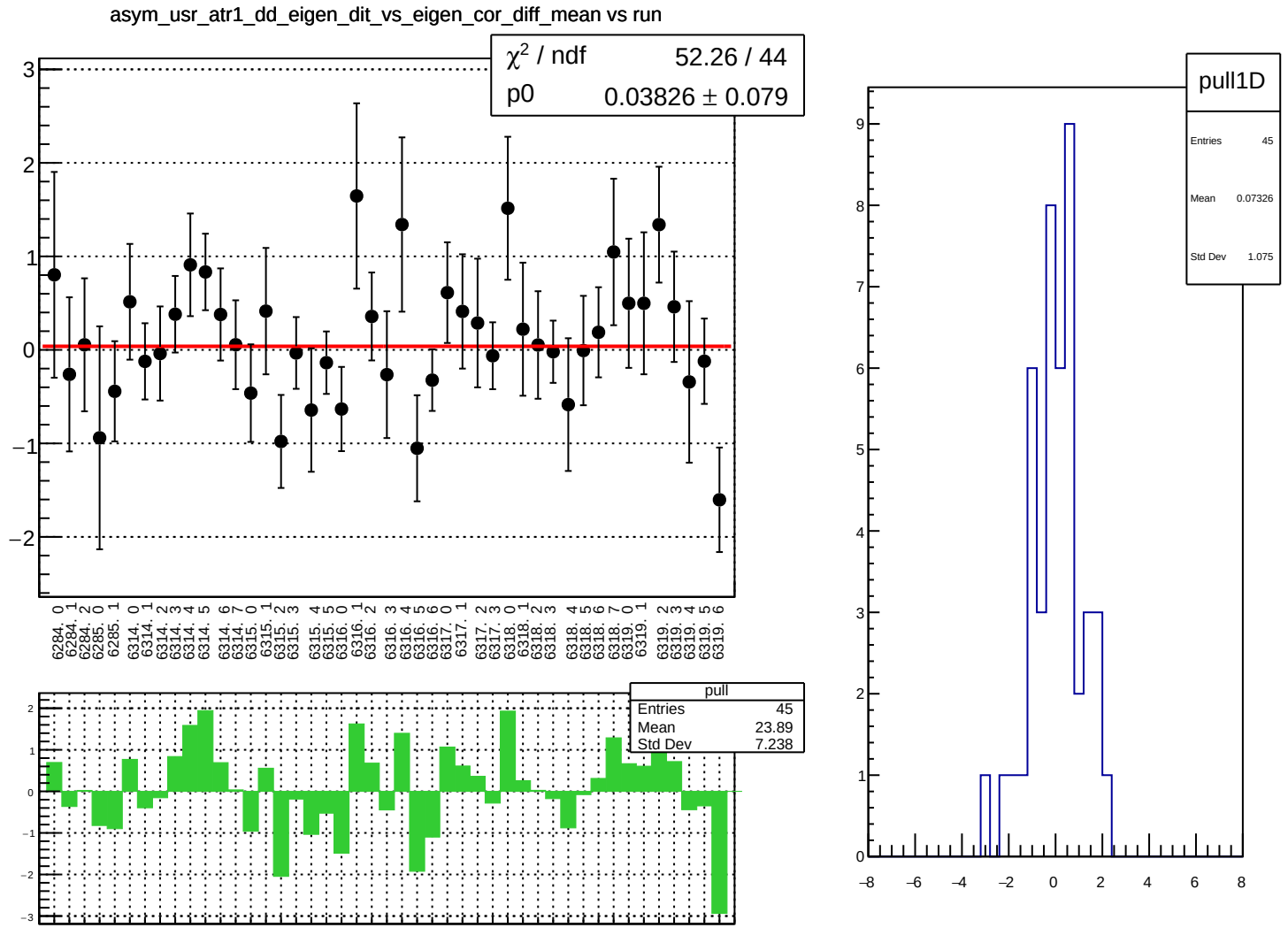

pull1D
Entries 45
Mean −0.001641
Std Dev 0.9737
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

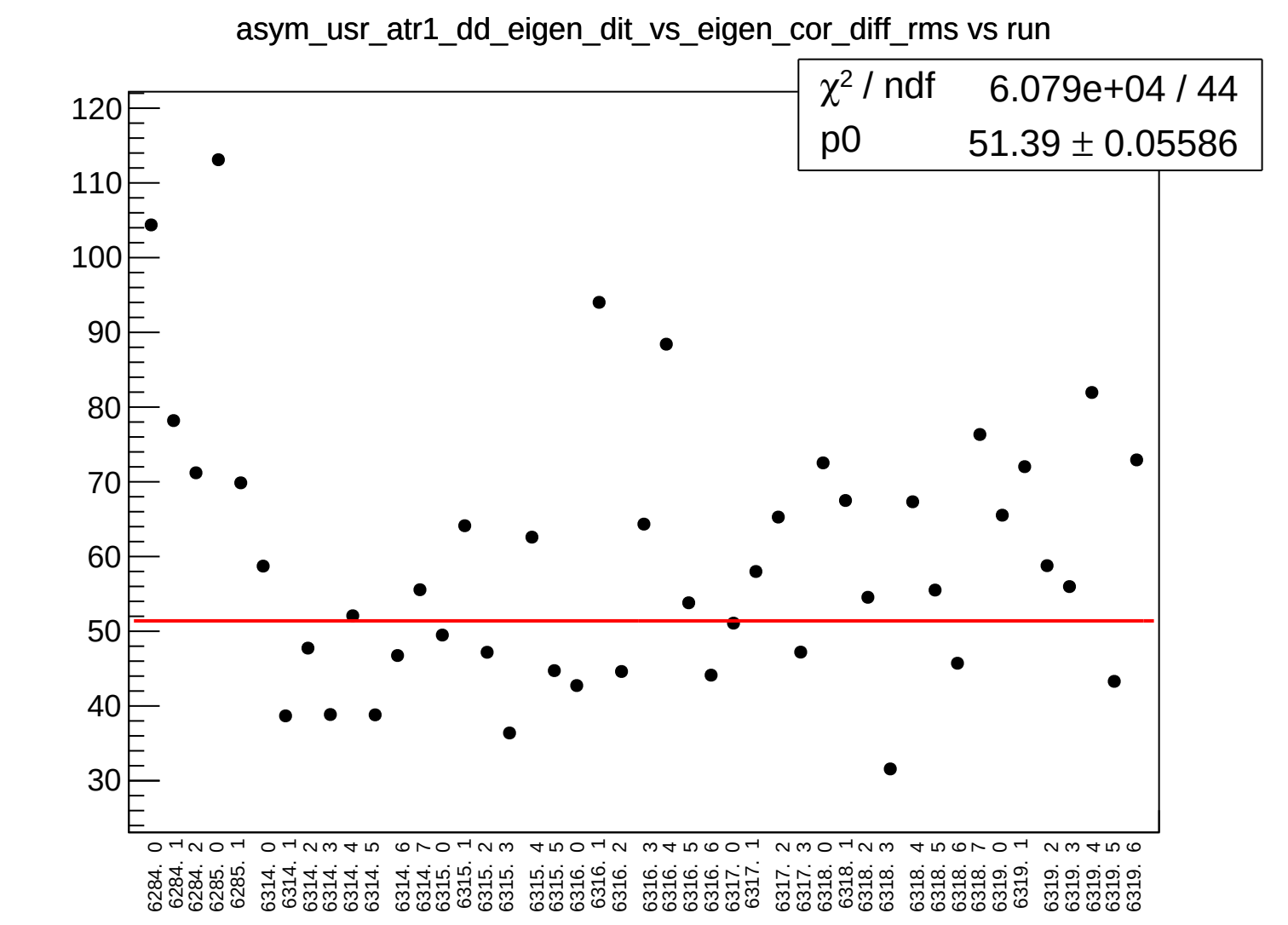

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8141 / 44
p0 0.001633 ± 1.722e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

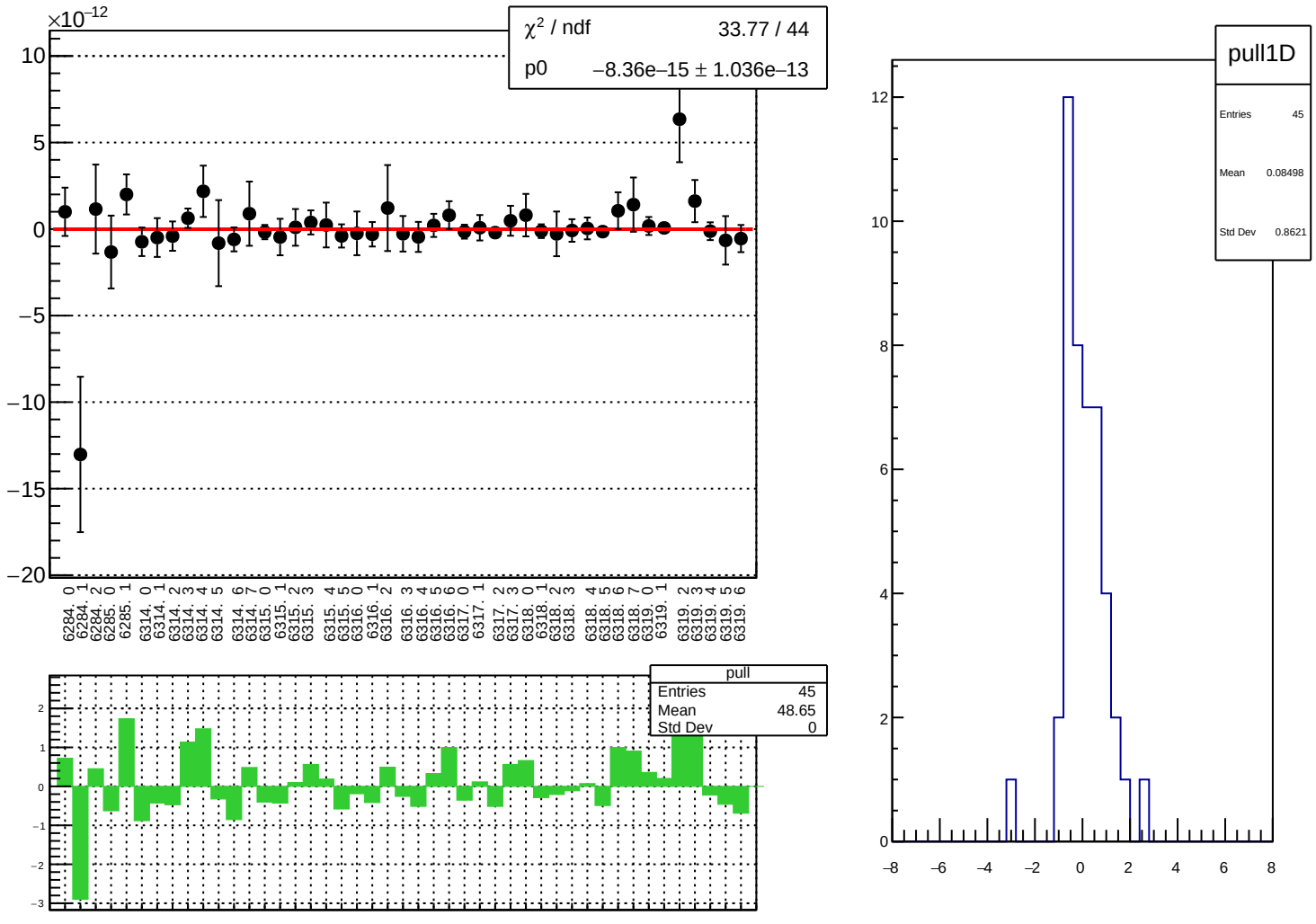

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.26 / 44
p0 0.03826 ± 0.079
pull
Entries 45
Mean 23.89
Std Dev 7.238

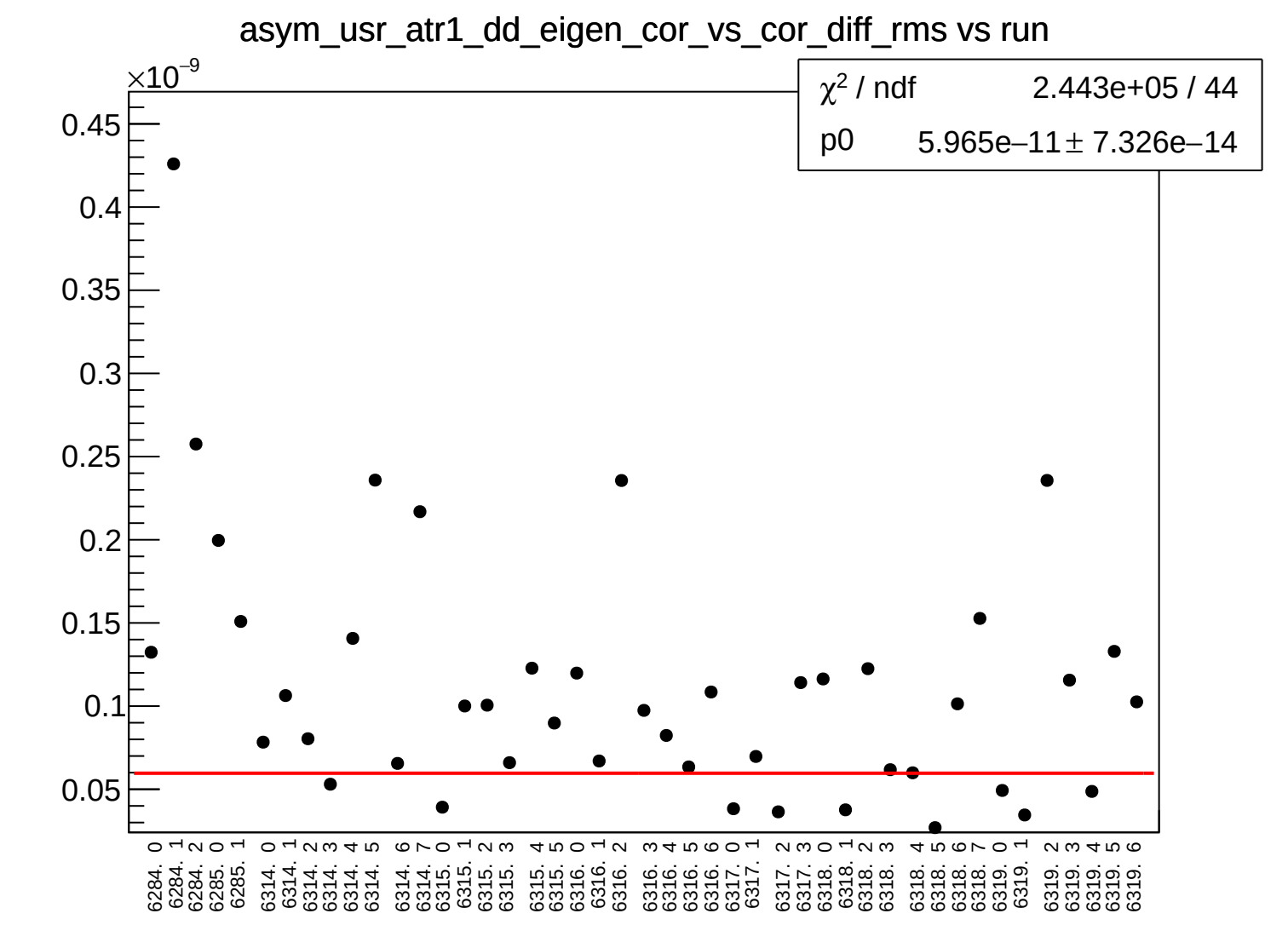

pull1D
Entries 45
Mean 0.07326
Std Dev 1.075

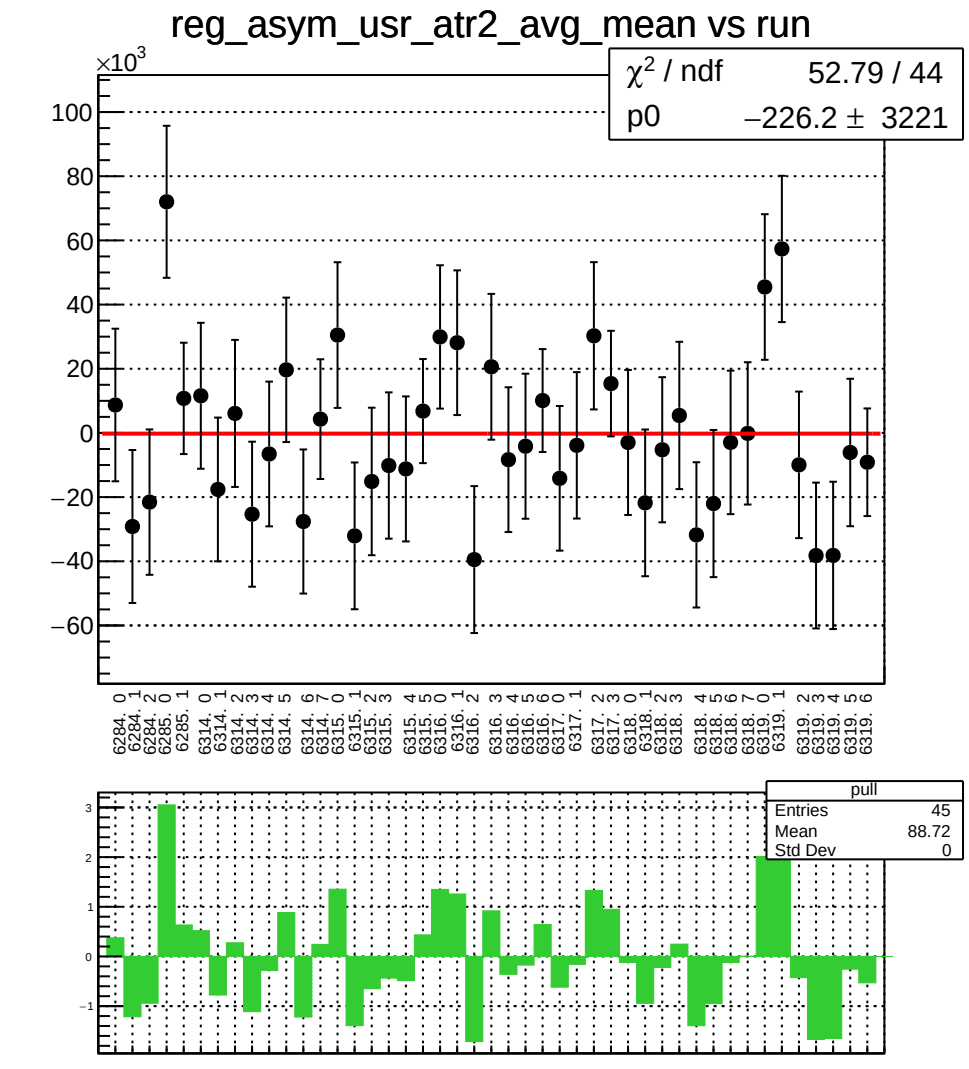

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.079e+04 / 44
p0 51.39 ± 0.05586
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.26 / 44
p0 0.03826 ± 0.079
pull
Entries 45
Mean 23.89
Std Dev 7.238
pull1D
Entries 45
Mean 0.07326
Std Dev 1.075


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.079e+04 / 44
p0 51.39 ± 0.05586
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.77 / 44
p0 −8.36e−15 ± 1.036e−13
10
5
0
−5
−10
−15
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 48.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.08498
Std Dev 0.8621
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.443e+05 / 44
p0 5.965e−11 ± 7.326e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 52.79 / 44
p0 −226.2 ± 3221
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
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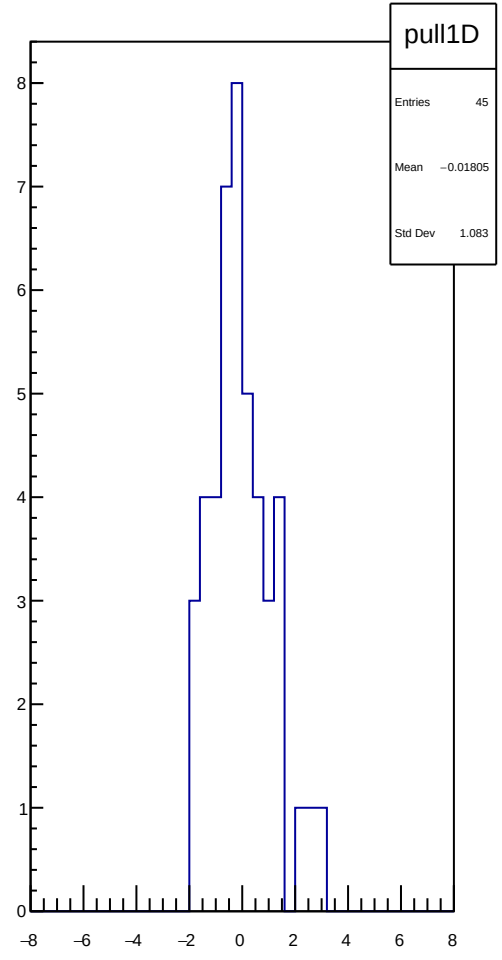
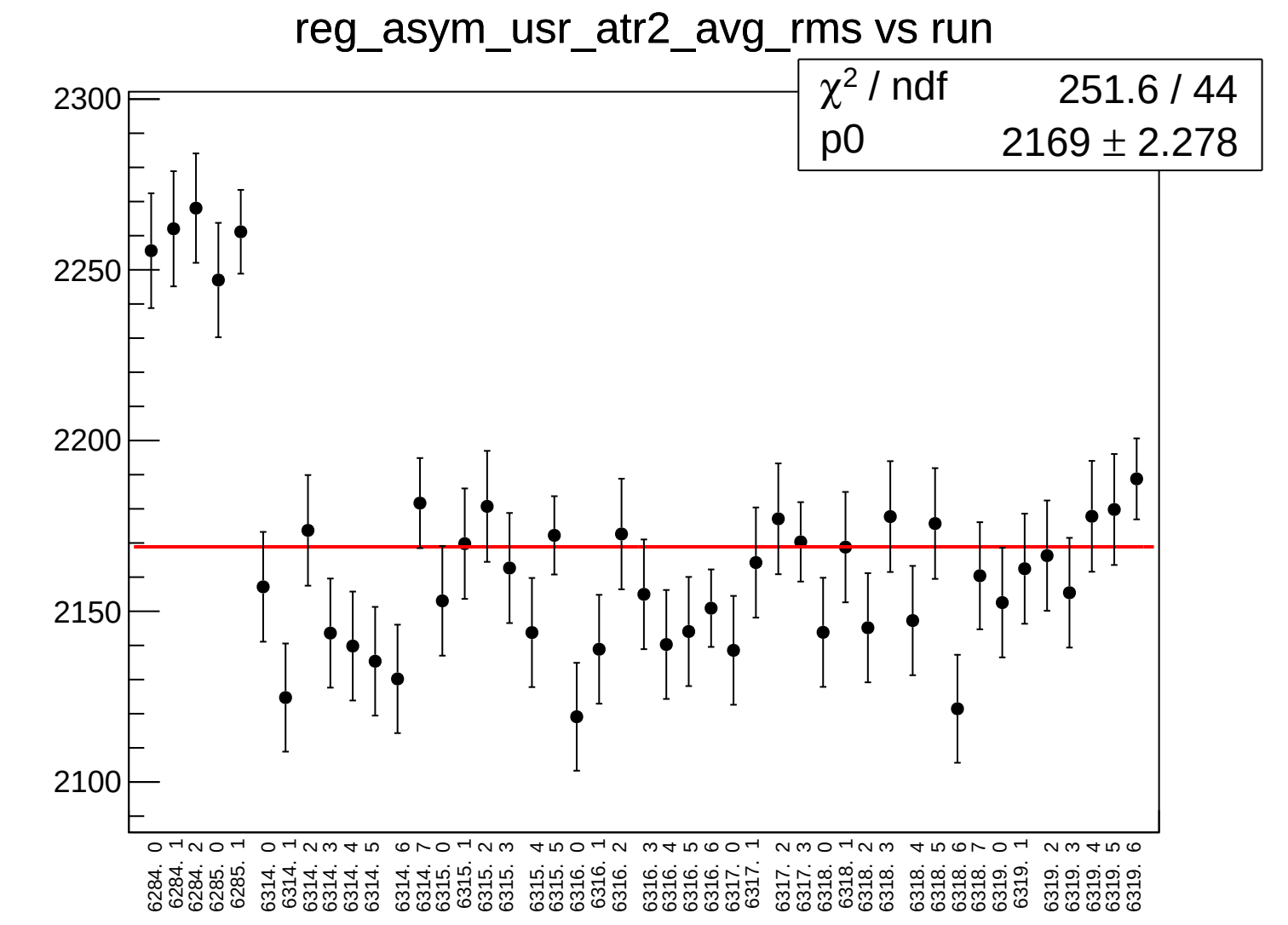
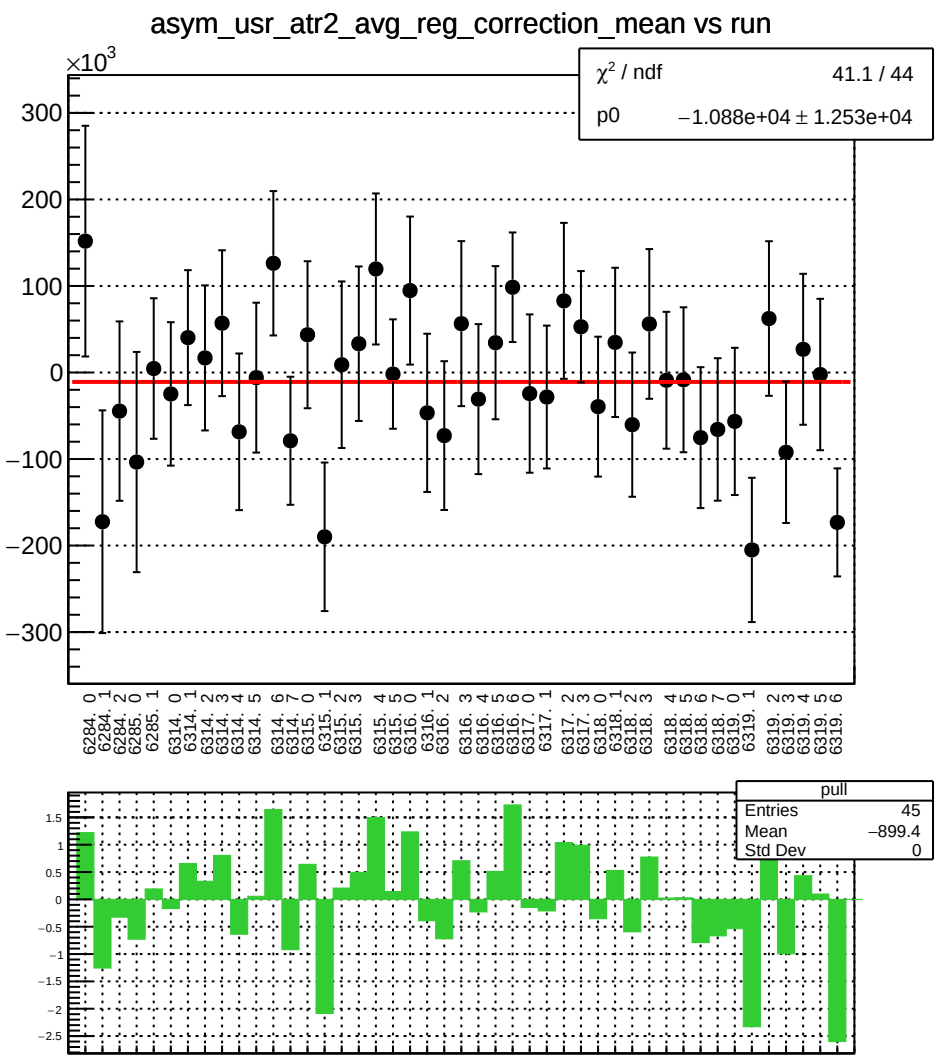
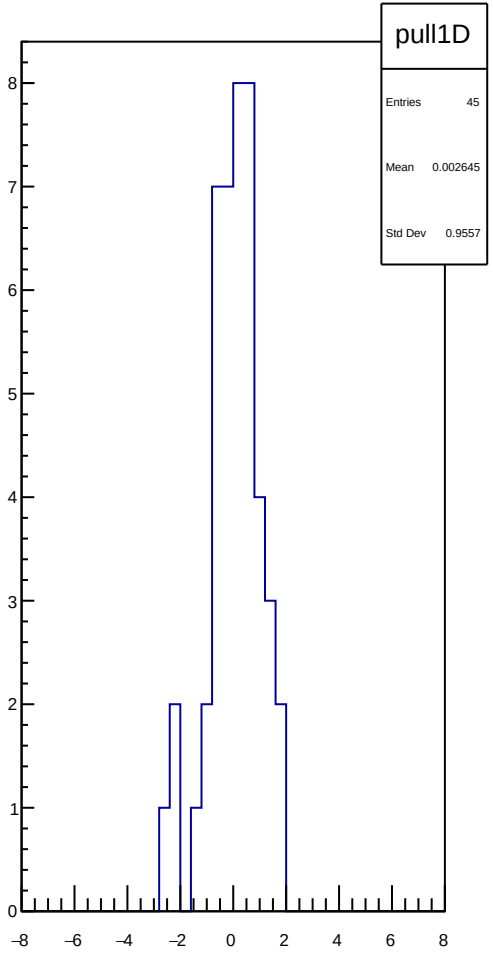
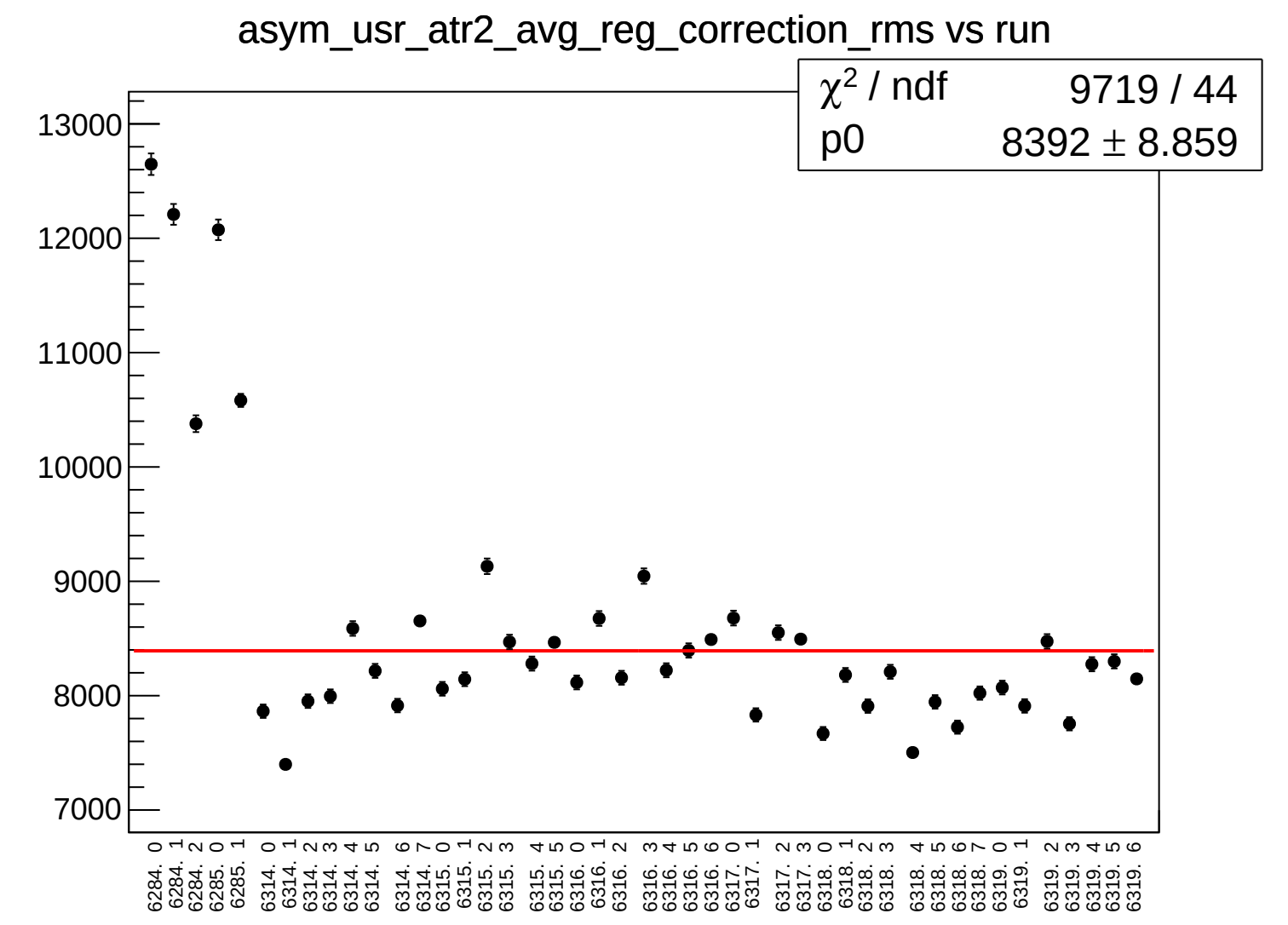
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 88.72
Std Dev 0
3
2
1
0
−1

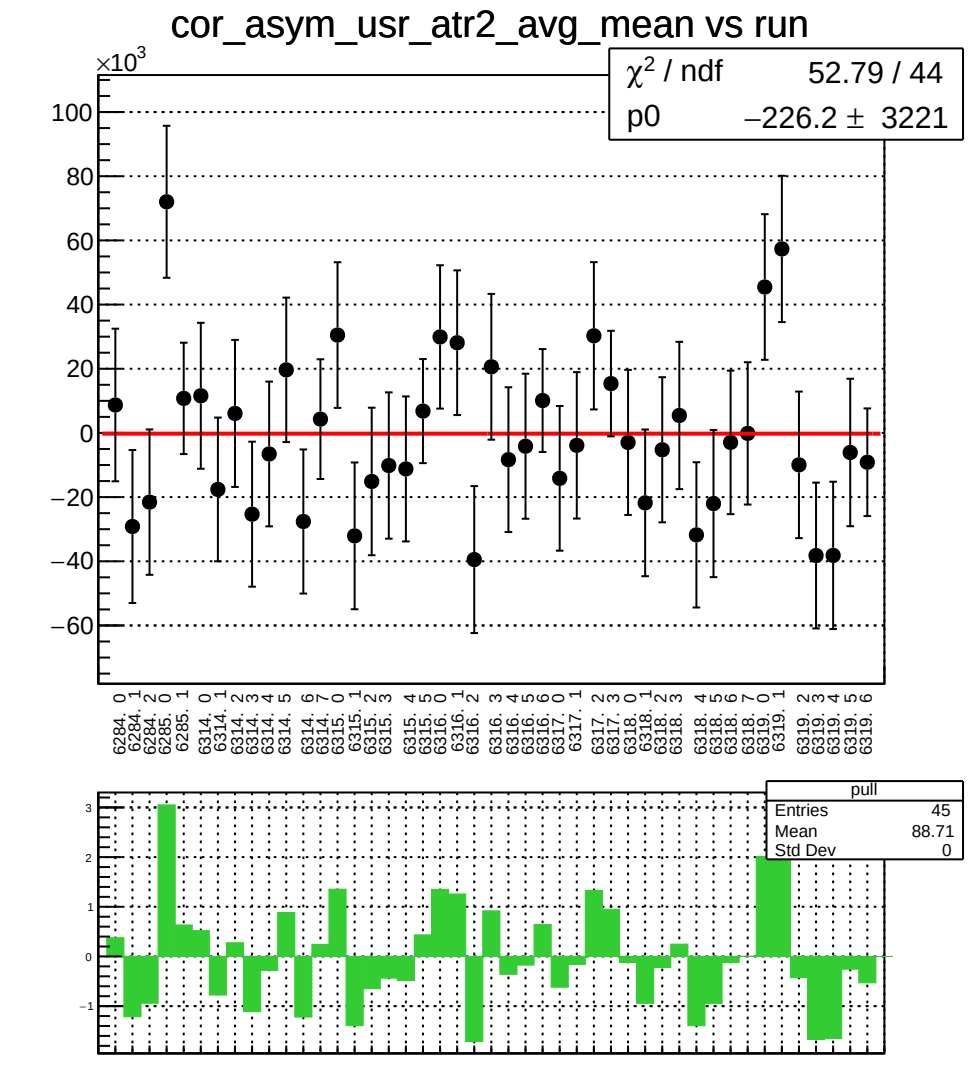

pull1D
Entries 45
Mean −0.01805
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

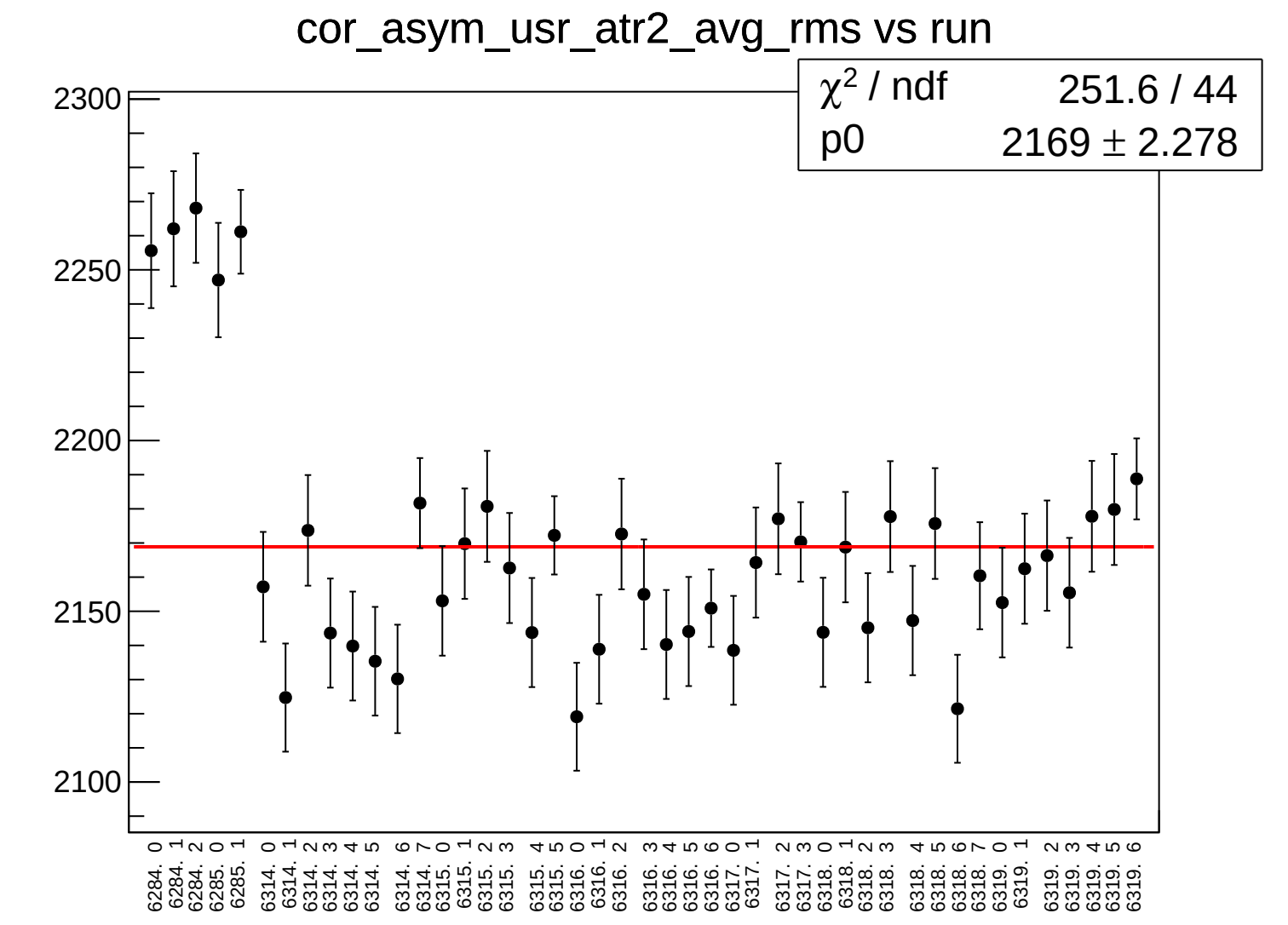

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 251.6 / 44
p0 2169 ± 2.278
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.1 / 44
p0 −1.088e+04 ± 1.253e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −899.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002645
Std Dev 0.9557
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 9719 / 44
p0 8392 ± 8.859
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 52.79 / 44
p0 −226.2 ± 3221
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 88.71
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean −0.01805
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 251.6 / 44
p0 2169 ± 2.278
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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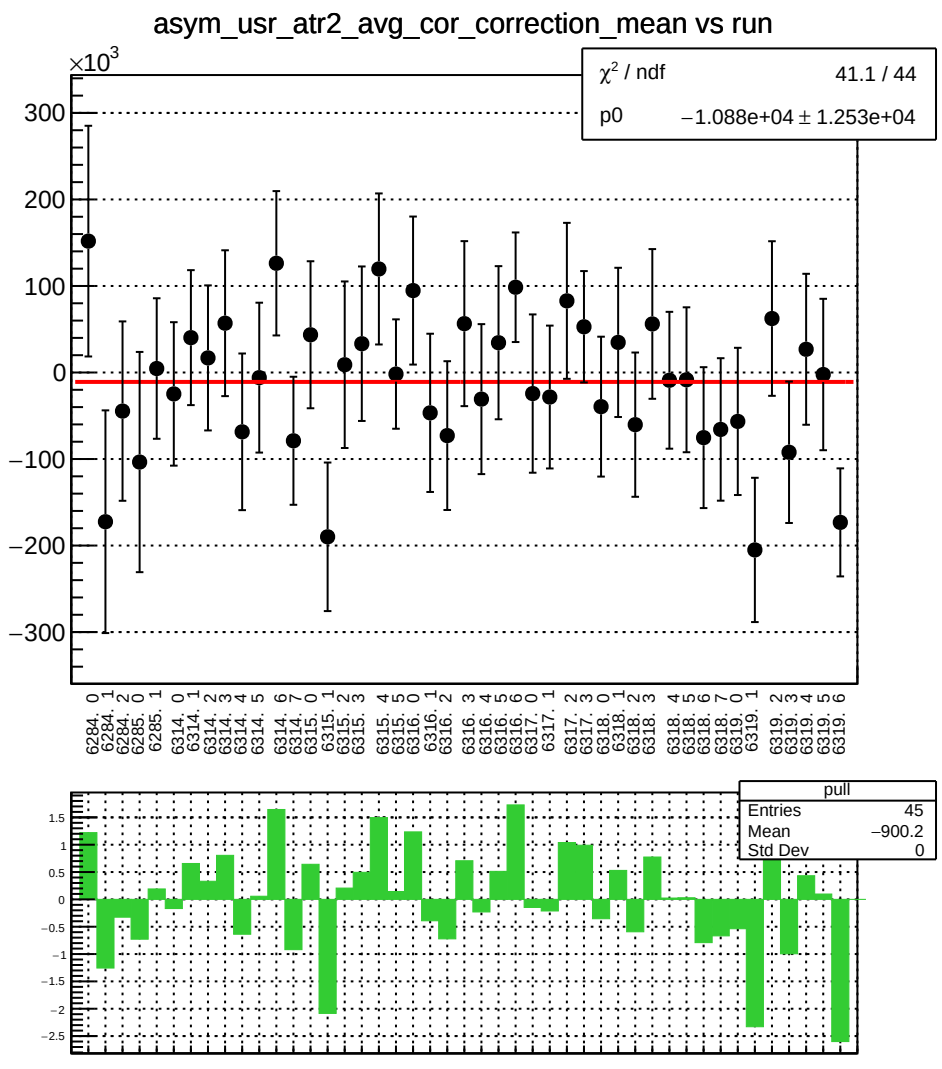
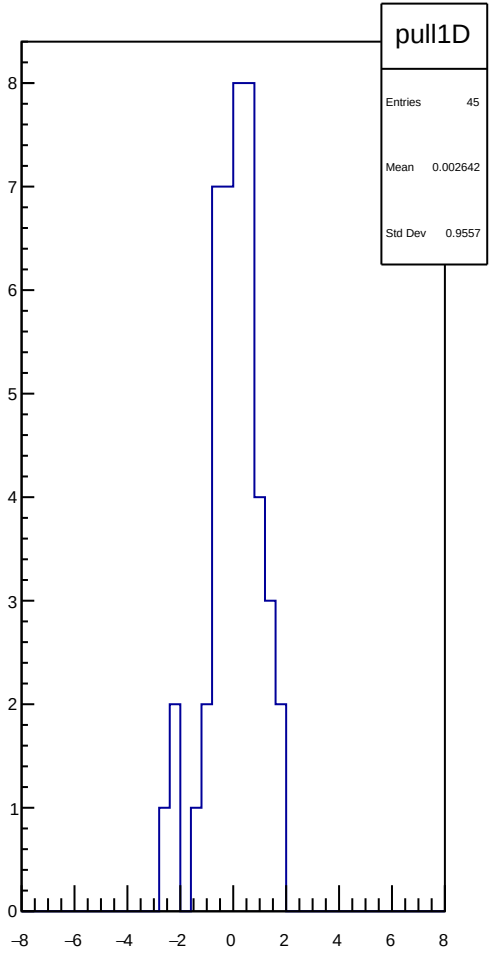
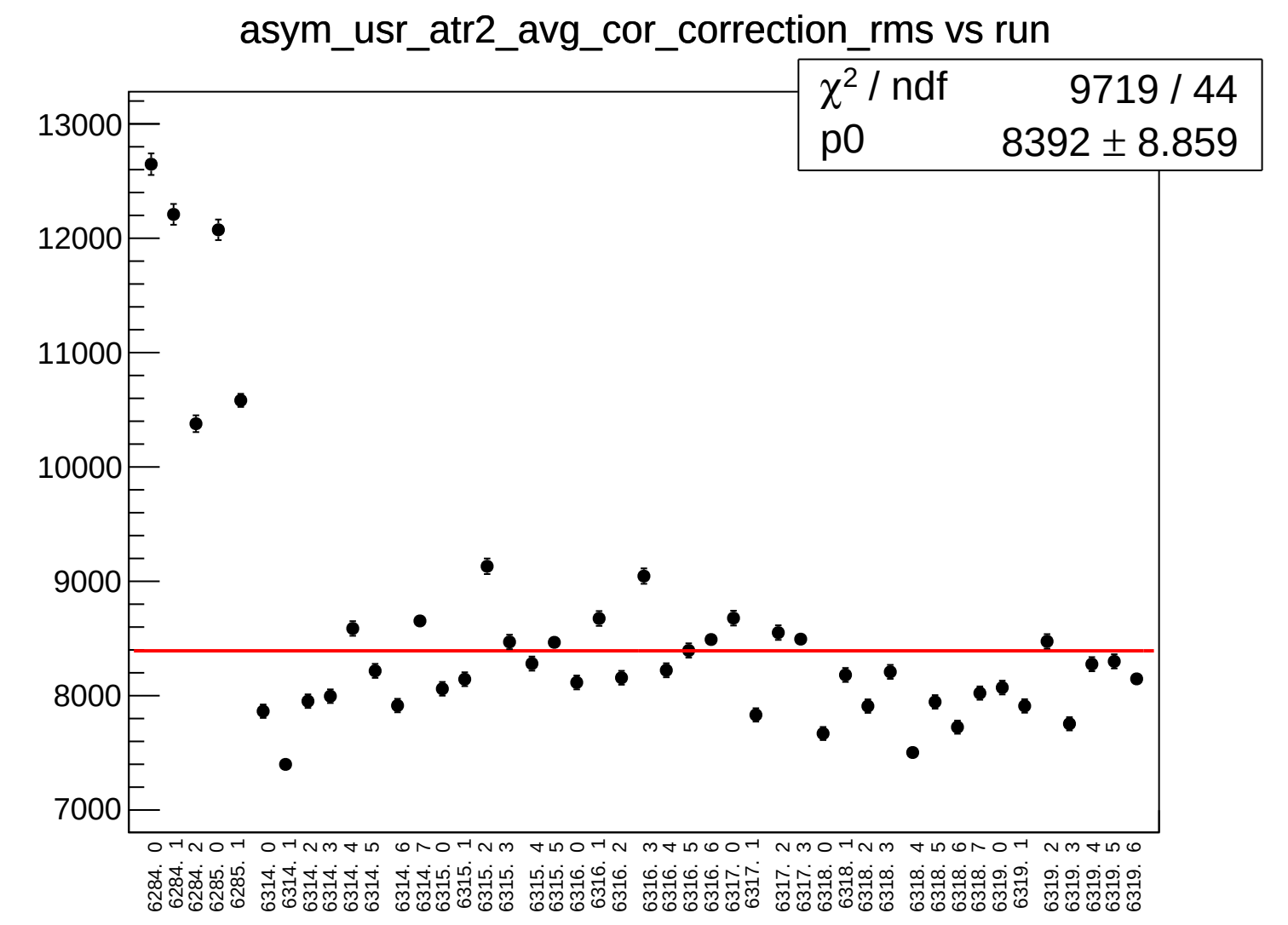
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.1 / 44
p0 −1.088e+04 ± 1.253e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −900.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002642
Std Dev 0.9557
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 9719 / 44
p0 8392 ± 8.859
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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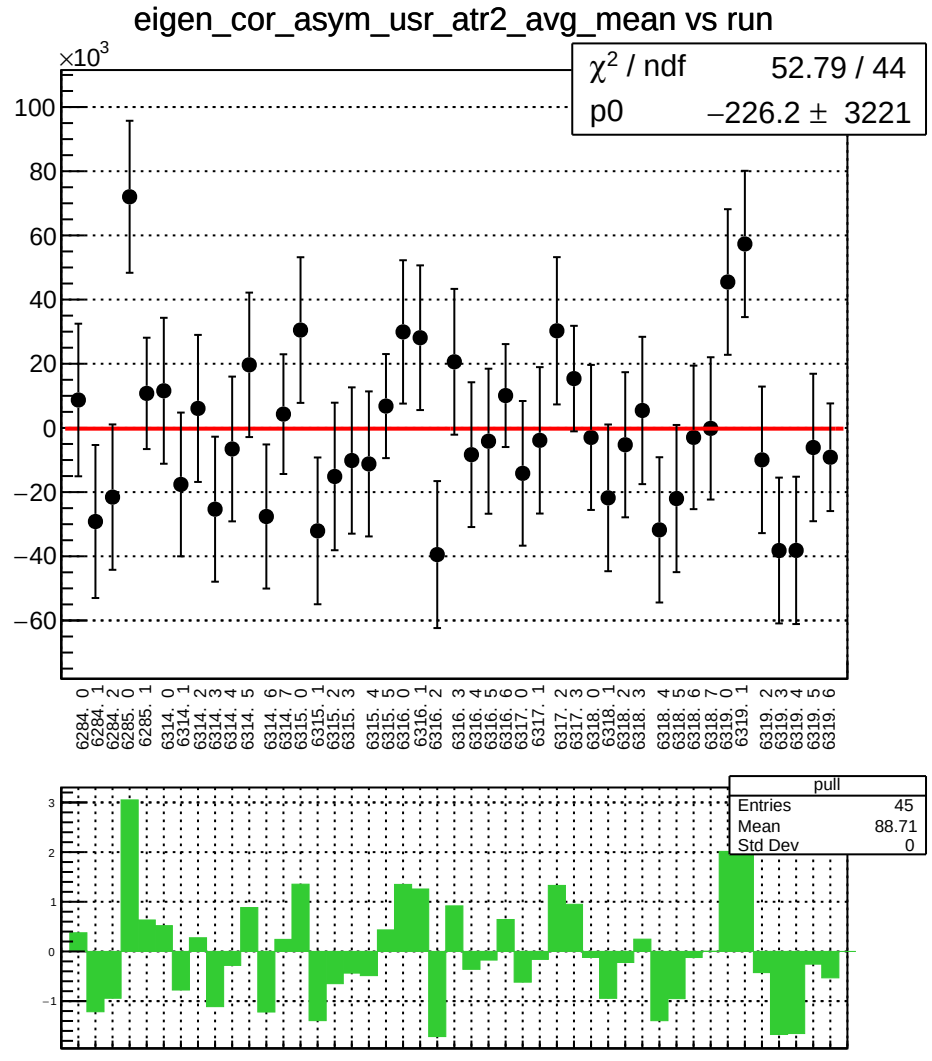
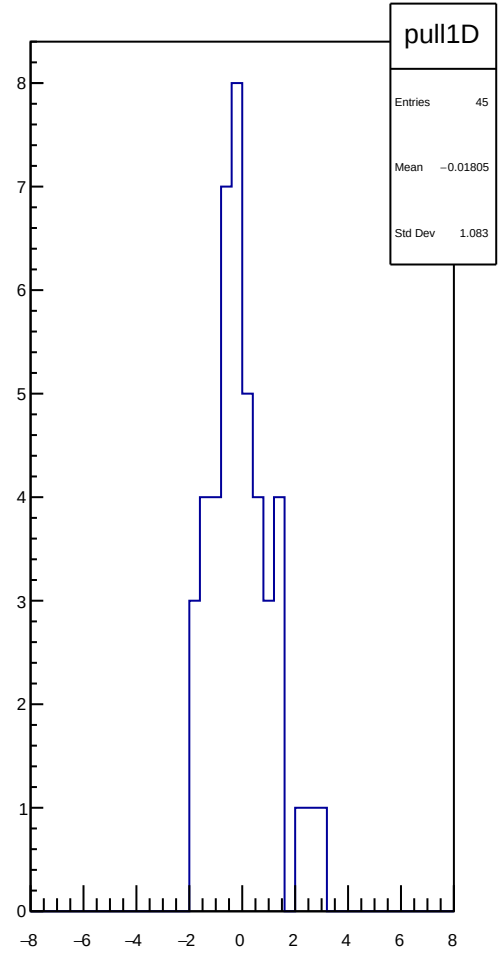
6319. 5
6319. 6


eigen_cor_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 52.79 / 44
p0 −226.2 ± 3221
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 88.71
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean −0.01805
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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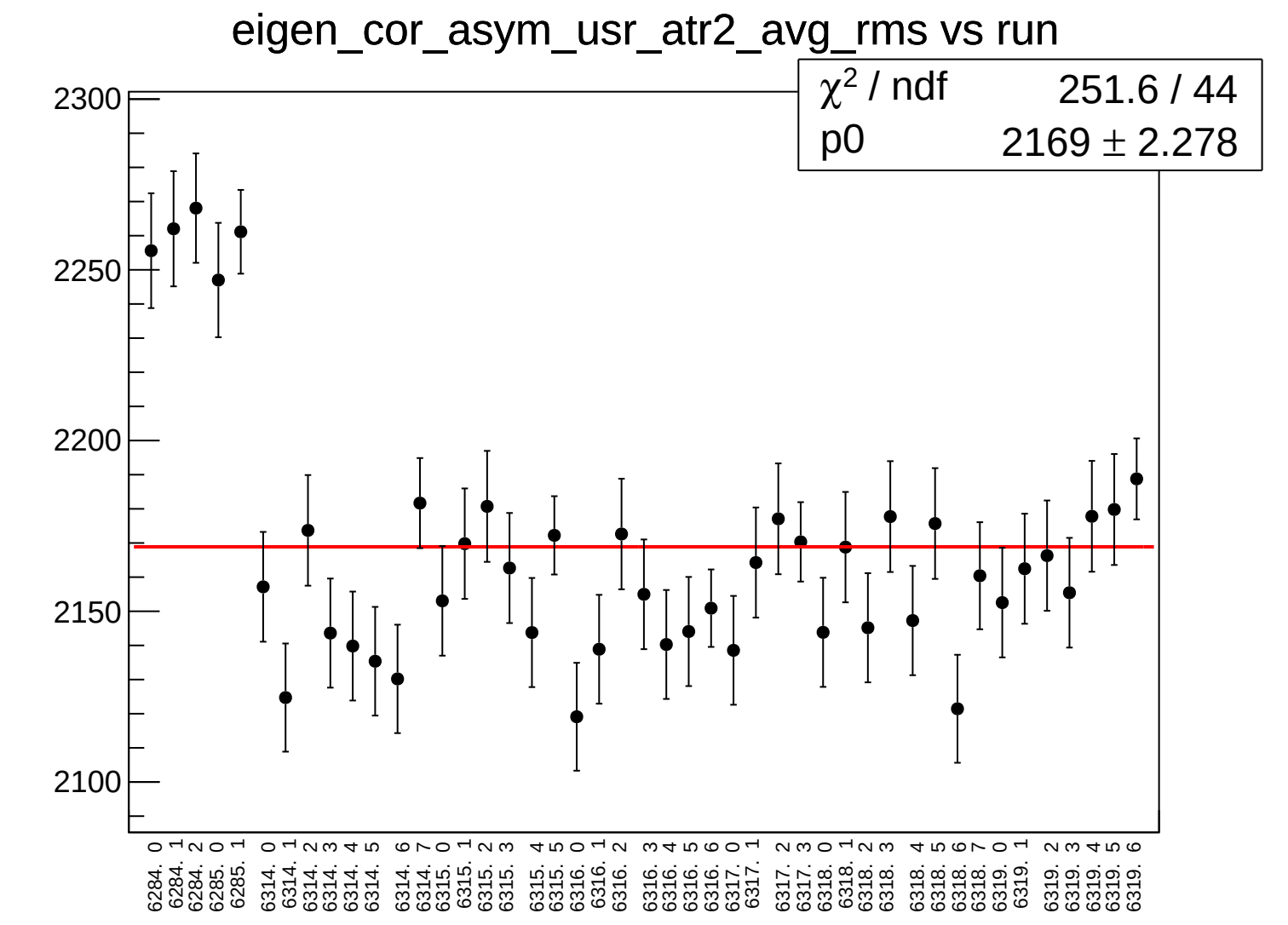
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 251.6 / 44
p0 2169 ± 2.278
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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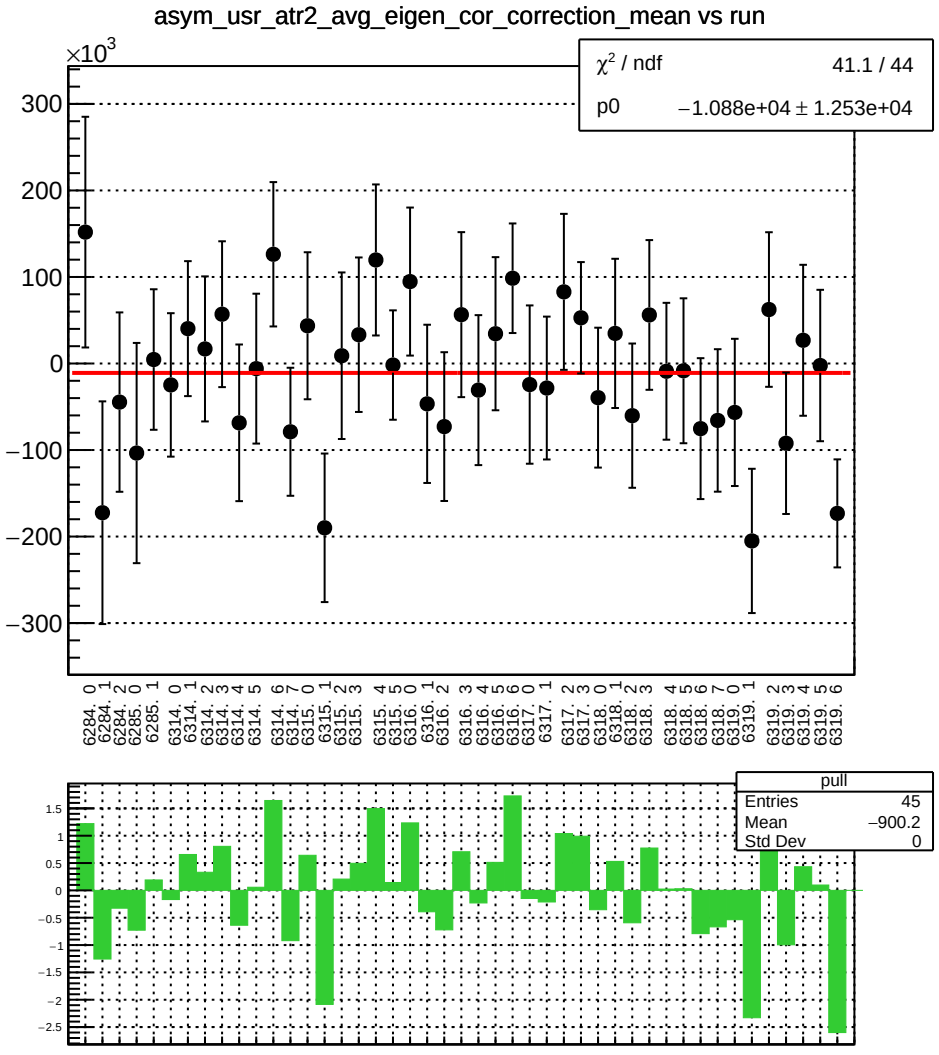
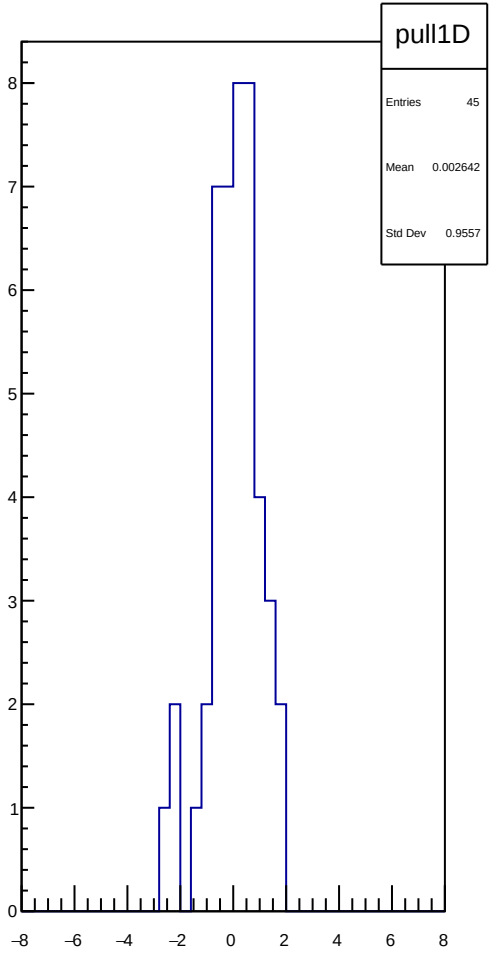

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.1 / 44
p0 −1.088e+04 ± 1.253e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −900.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002642
Std Dev 0.9557
8
7
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5
4
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2
1
0
−8
−6
−4
−2
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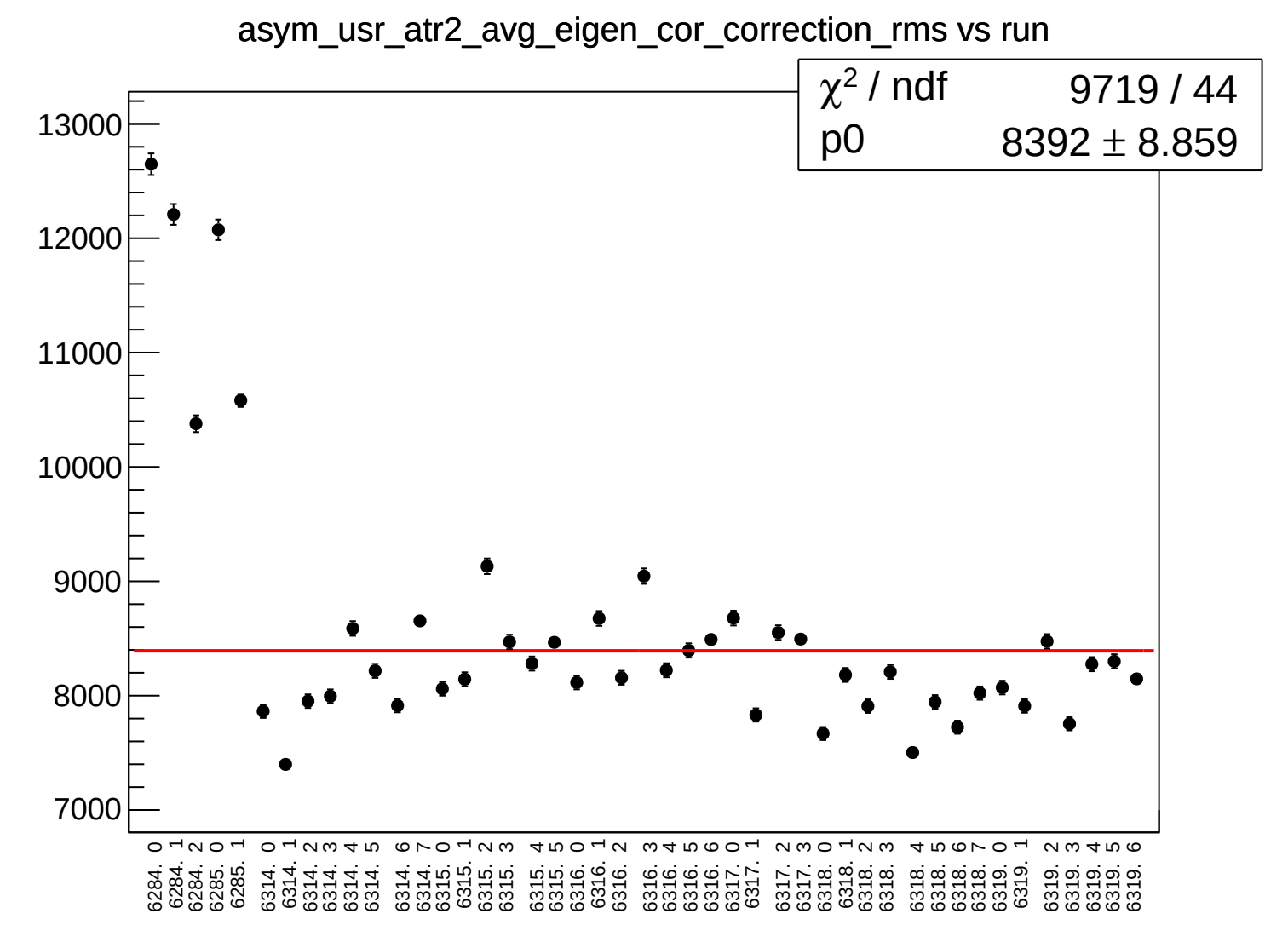
2
4
6
8


asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9719 / 44
p0 8392 ± 8.859
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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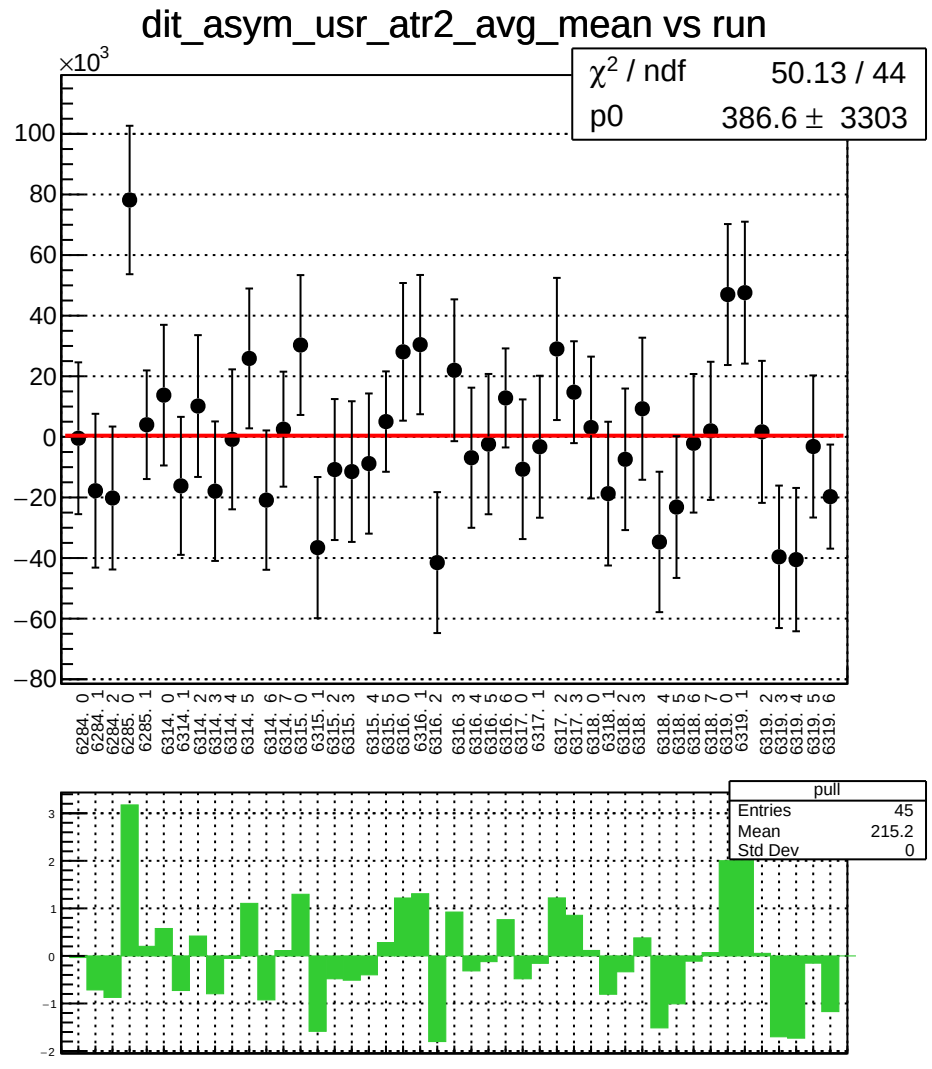
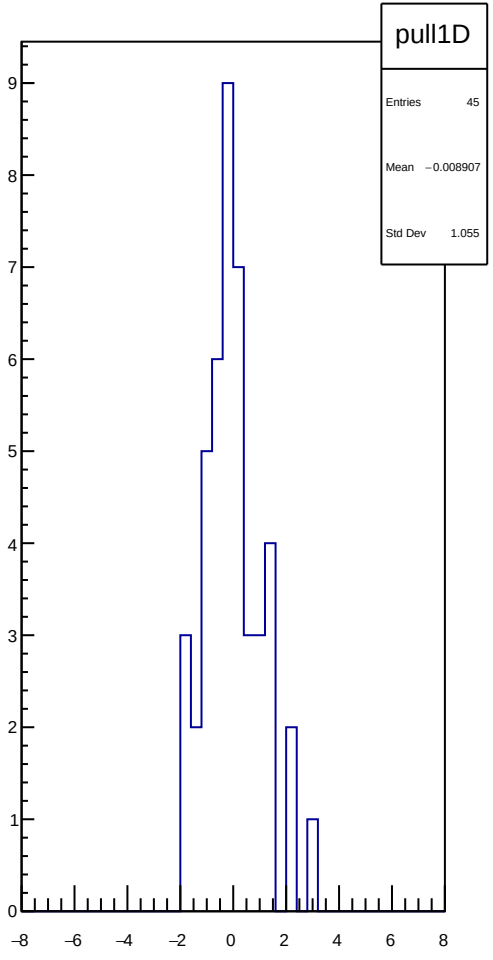
6319. 6


dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 50.13 / 44
p0 386.6 ± 3303
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 215.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.008907
Std Dev 1.055
9
8
7
6
5
4
3
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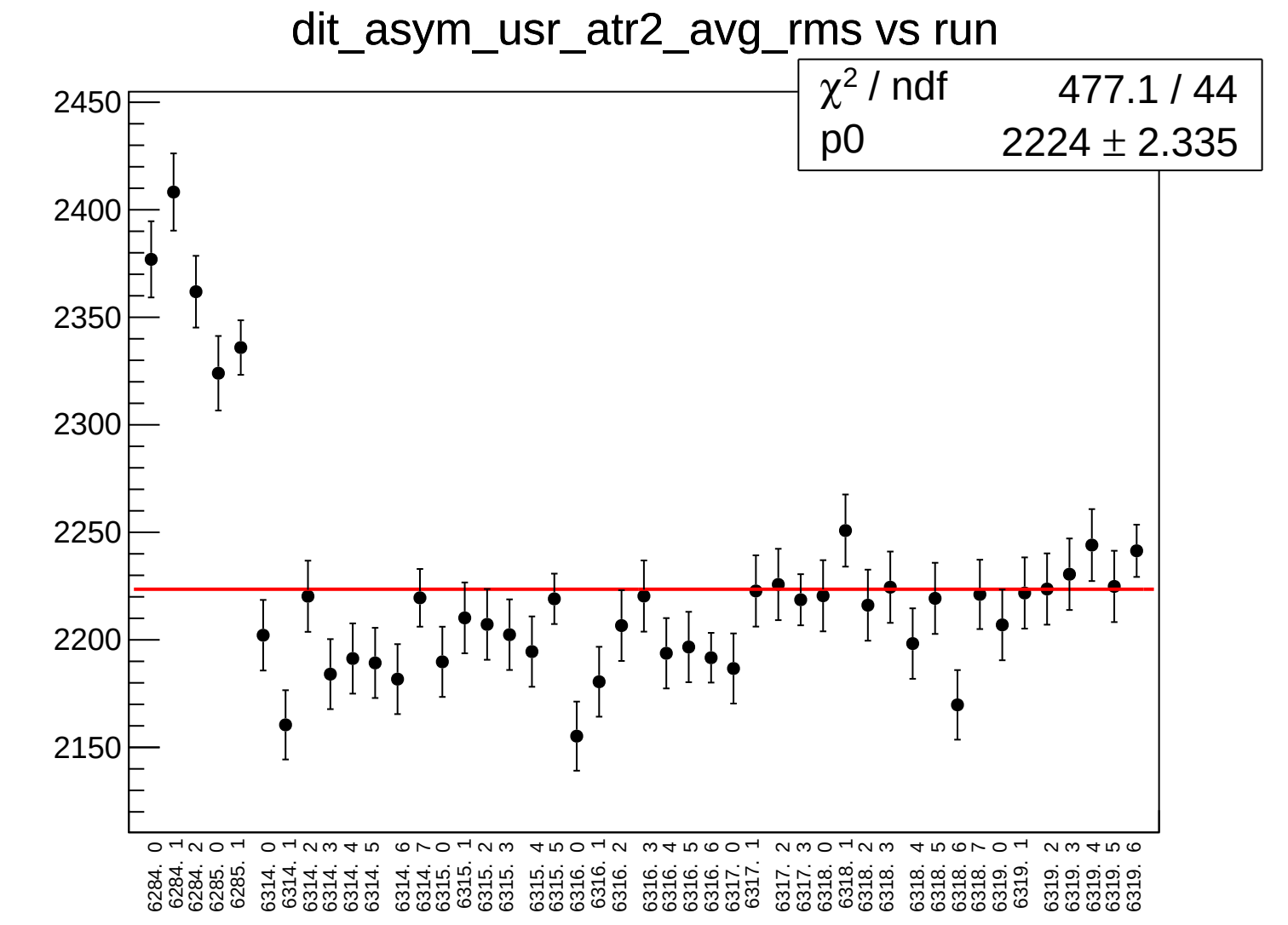
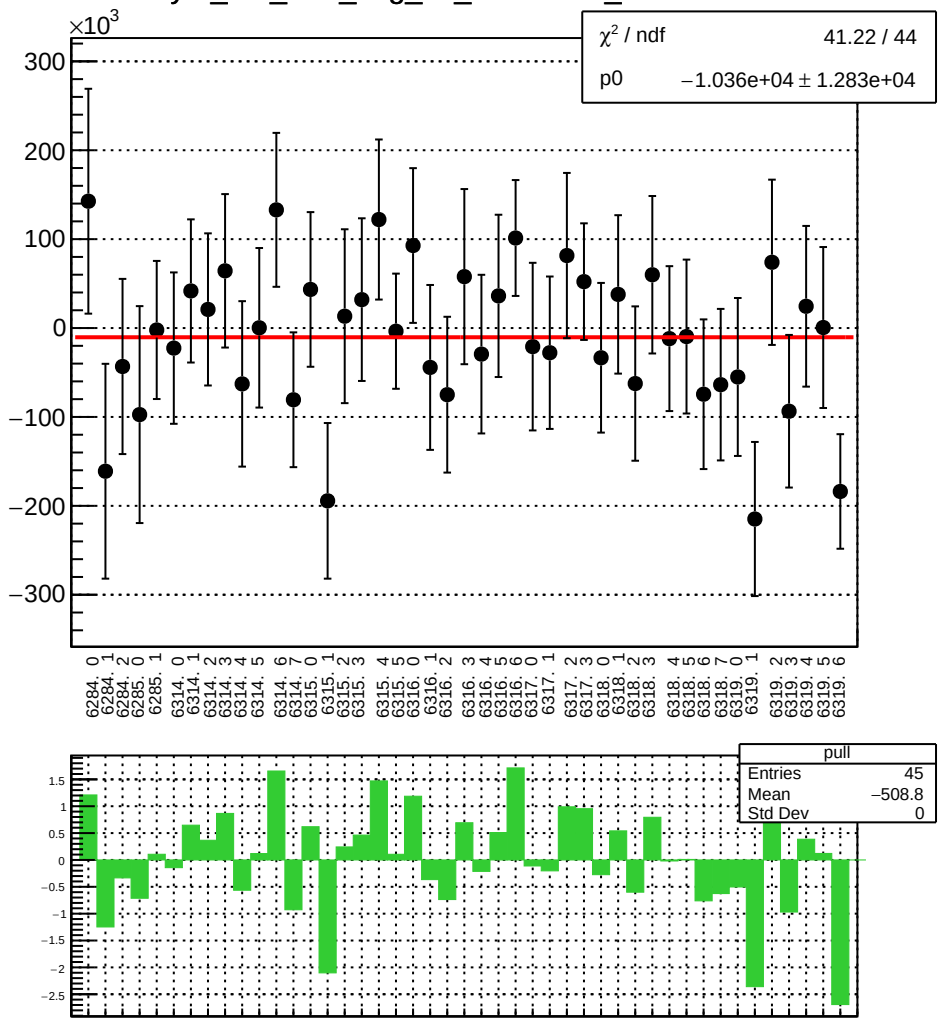
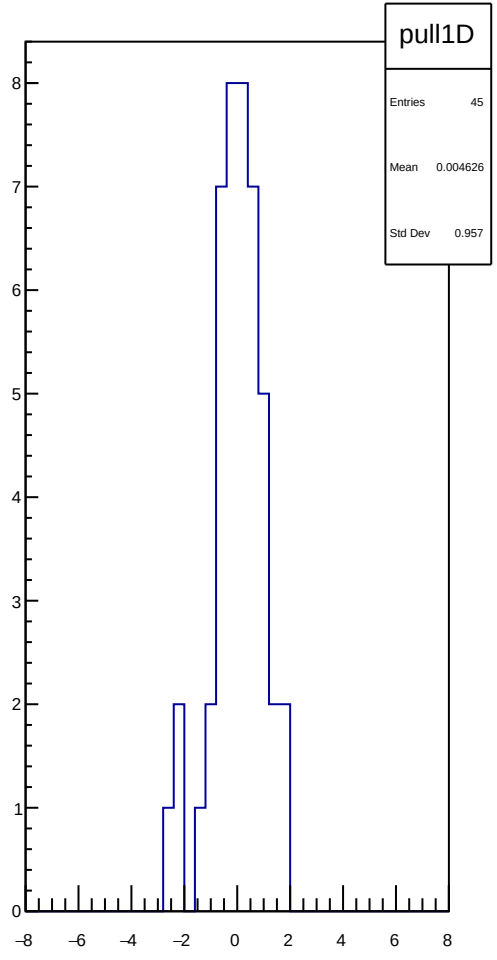
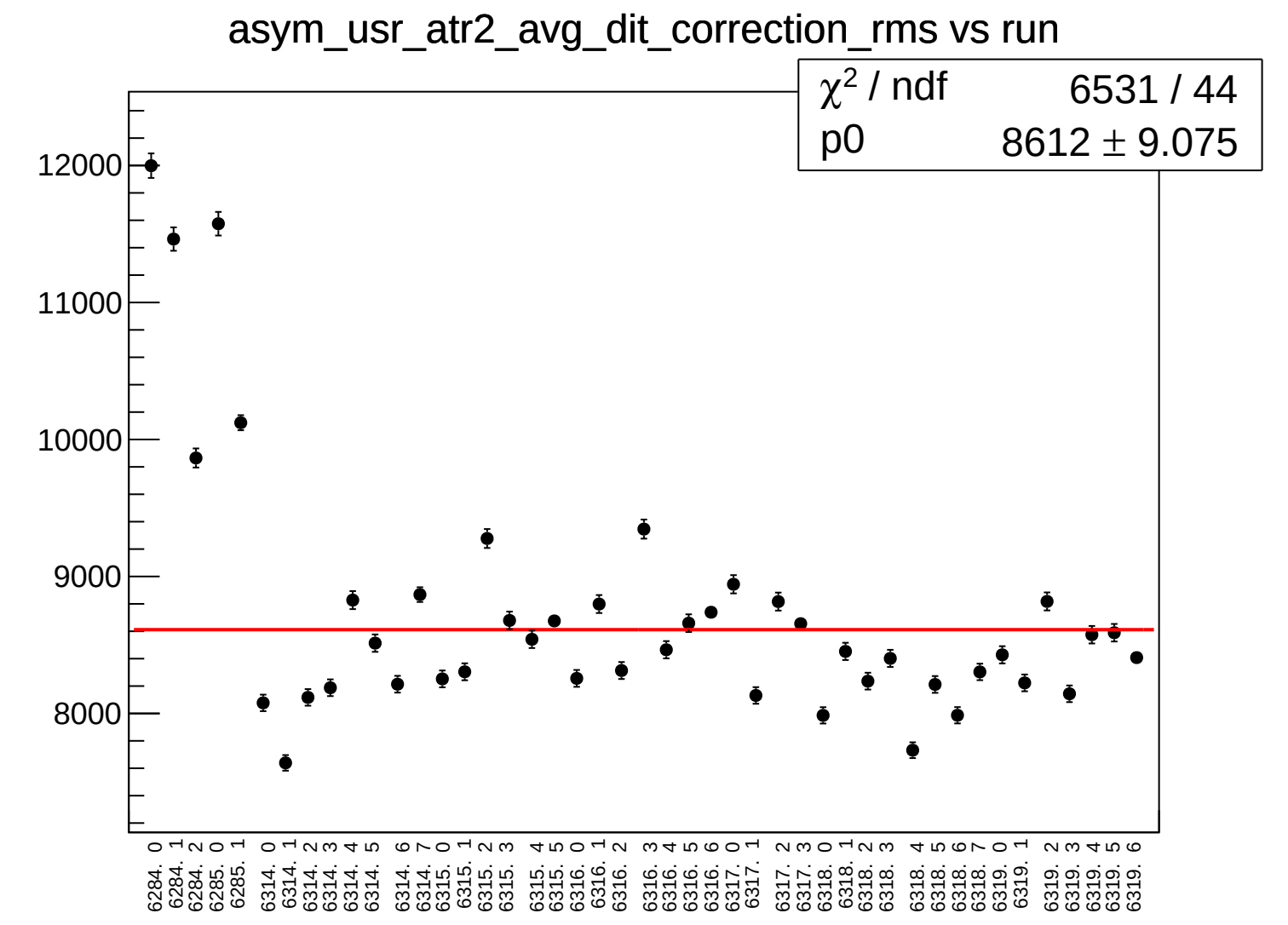
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 477.1 / 44
p0 2224 ± 2.335
2450
2400
2350
2300
2250
2200
2150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −1.036e+04 ± 1.283e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −508.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.004626
Std Dev 0.957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6531 / 44
p0 8612 ± 9.075
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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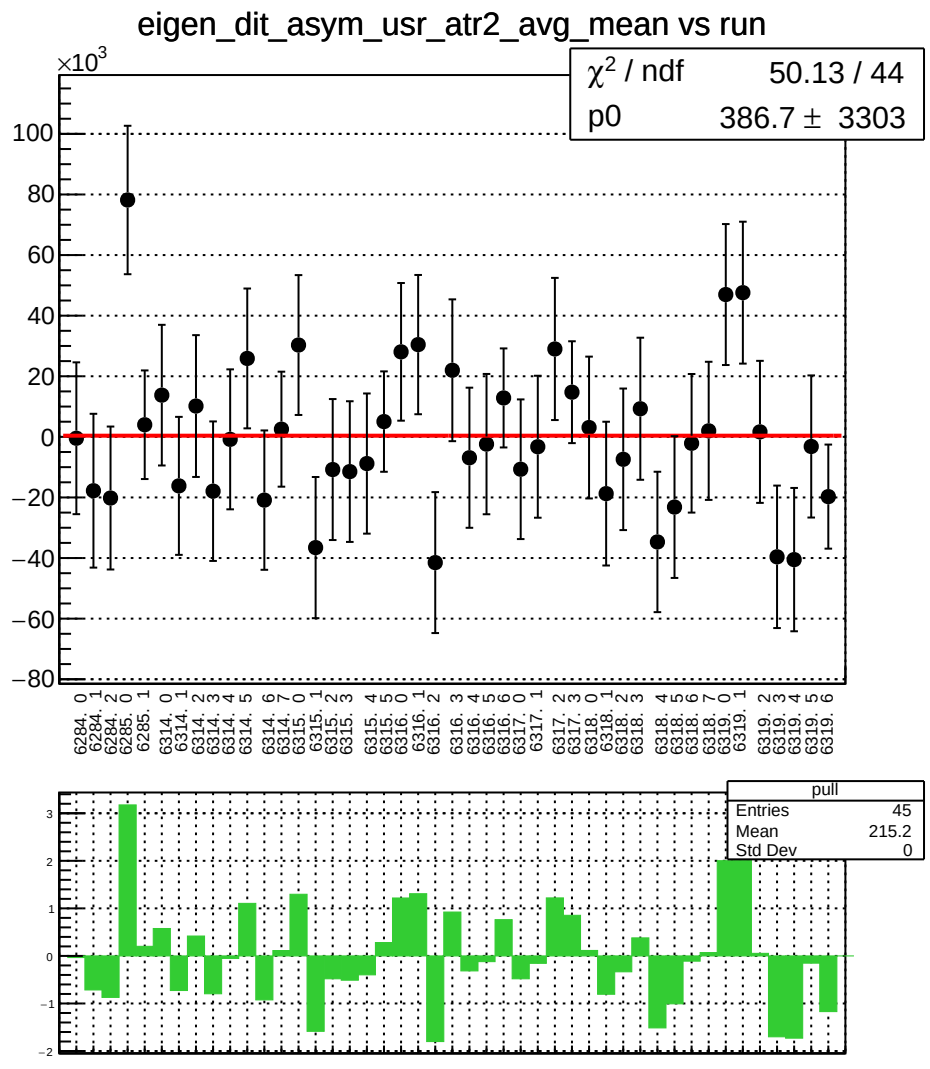
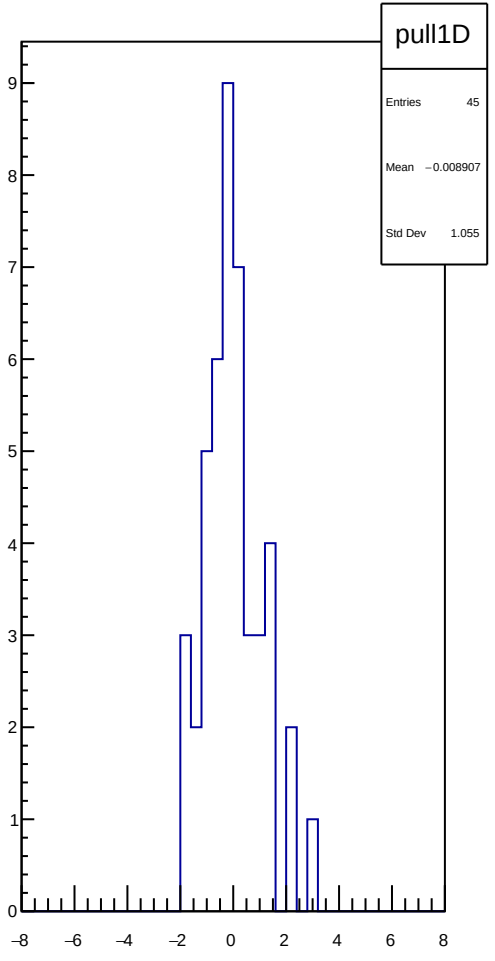
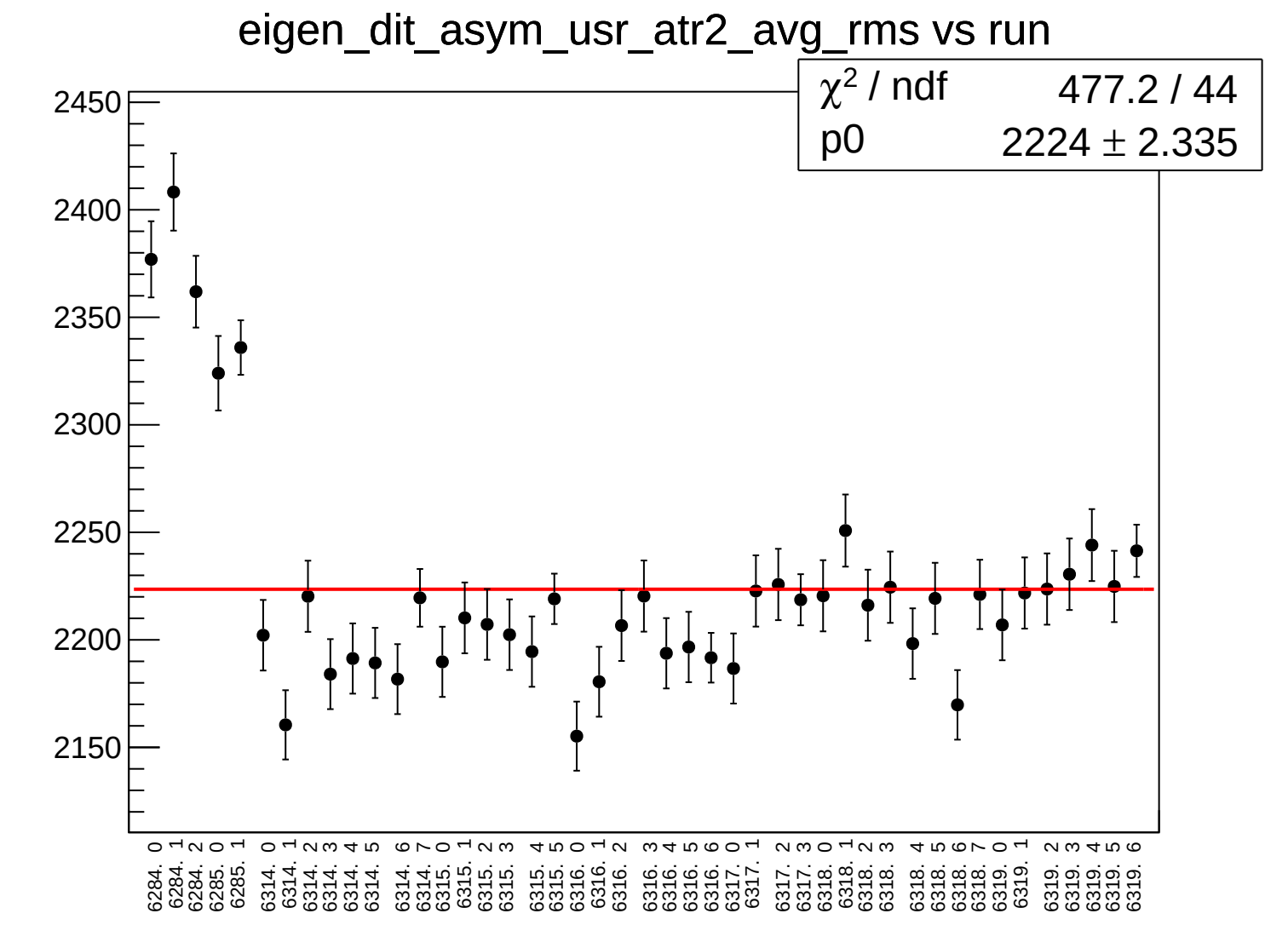
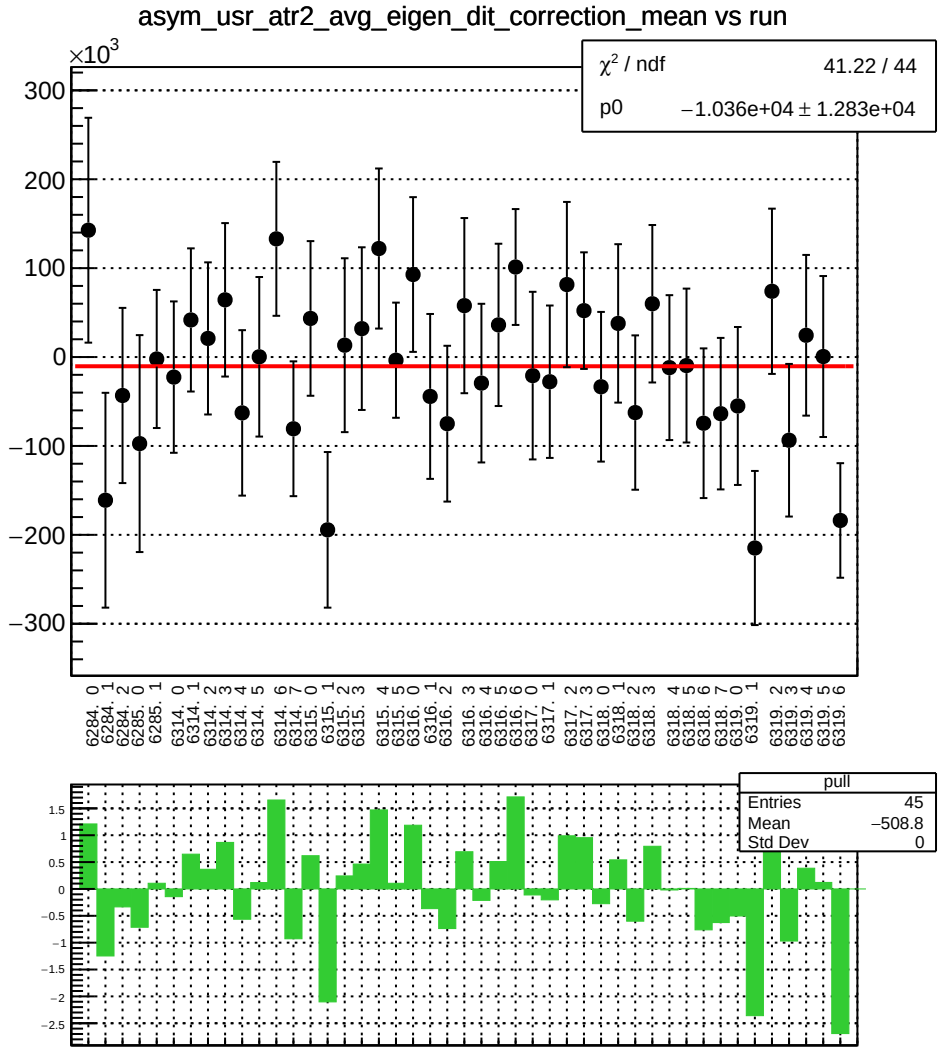
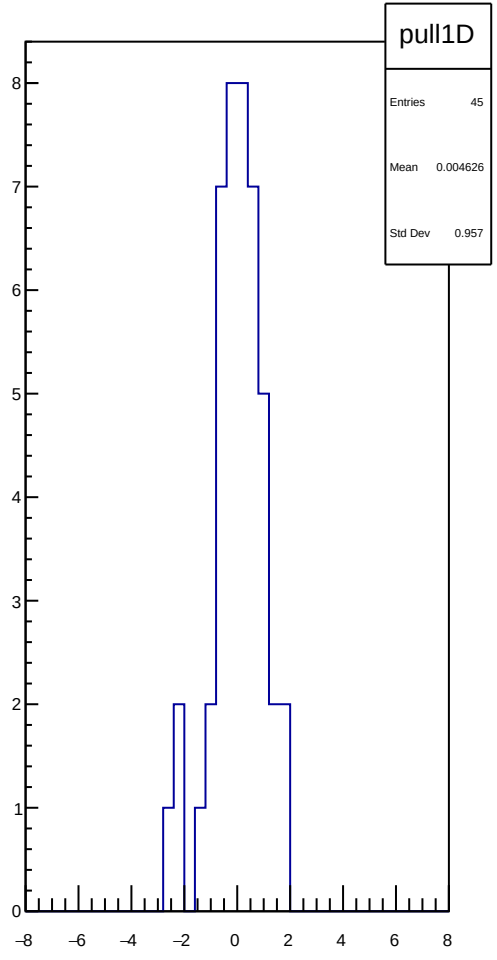
6319. 6

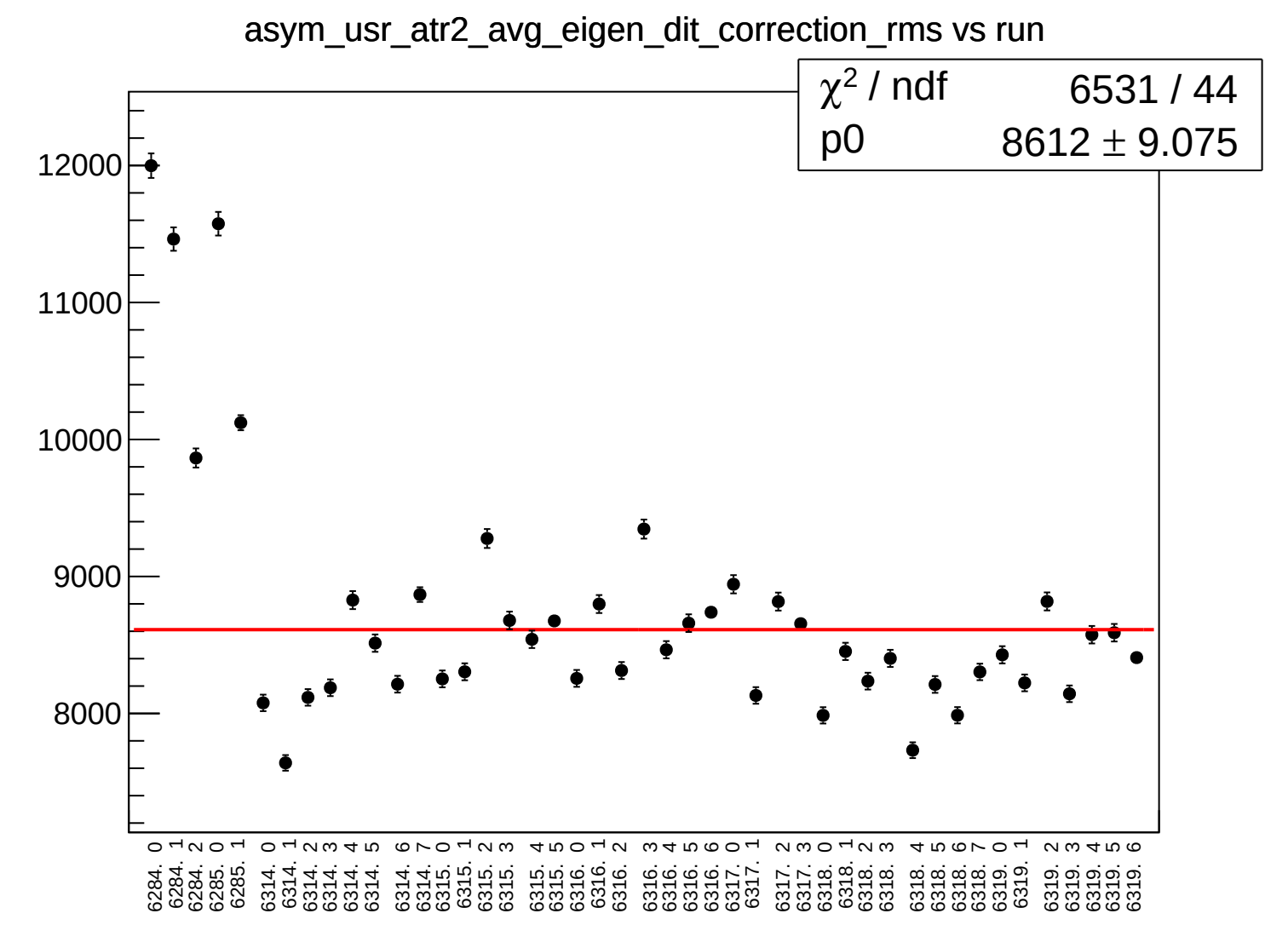

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 50.13 / 44
p0 386.7 ± 3303
×10³
pull
Entries 45
Mean 215.2
Std Dev 0

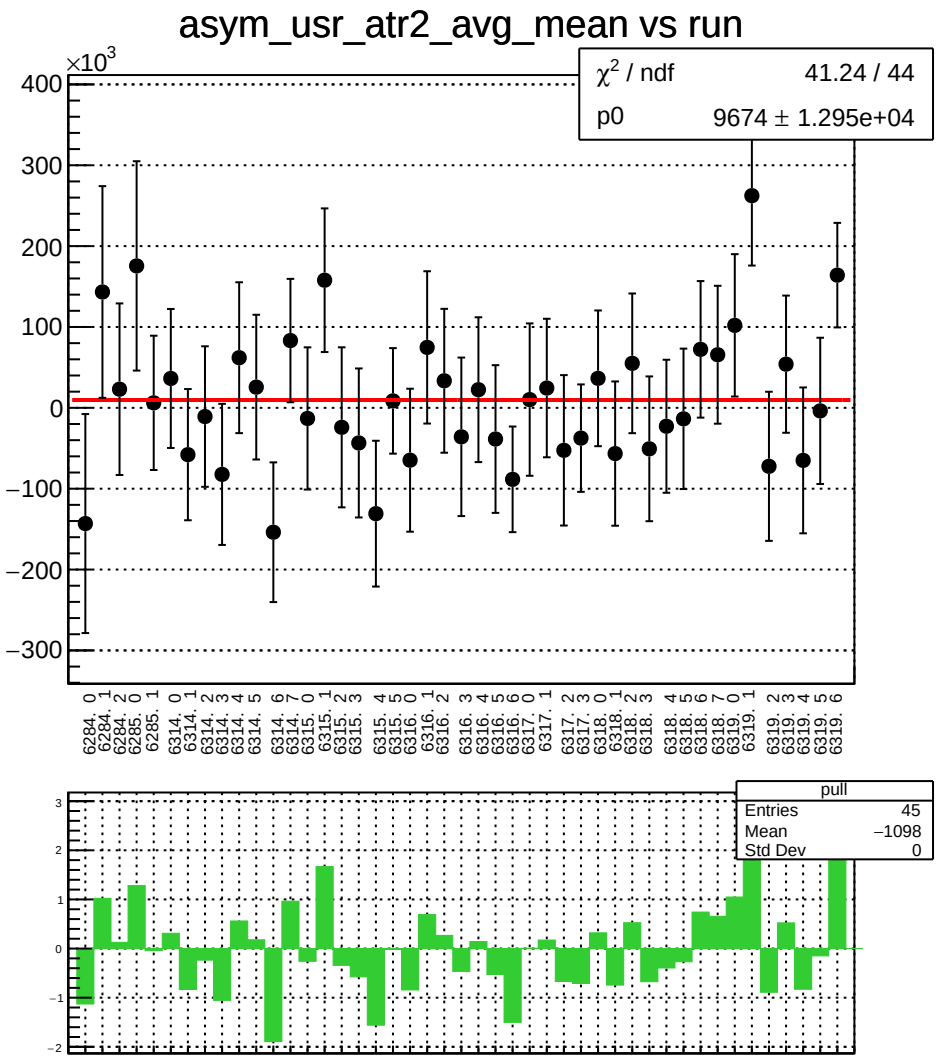

pull1D
Entries 45
Mean −0.008907
Std Dev 1.055

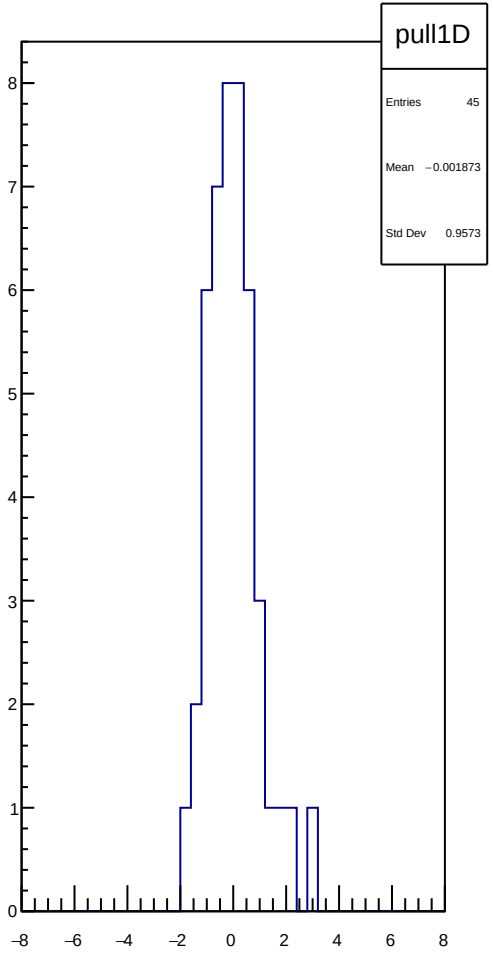

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 477.2 / 44
p0 2224 ± 2.335
2450
2400
2350
2300
2250
2200
2150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

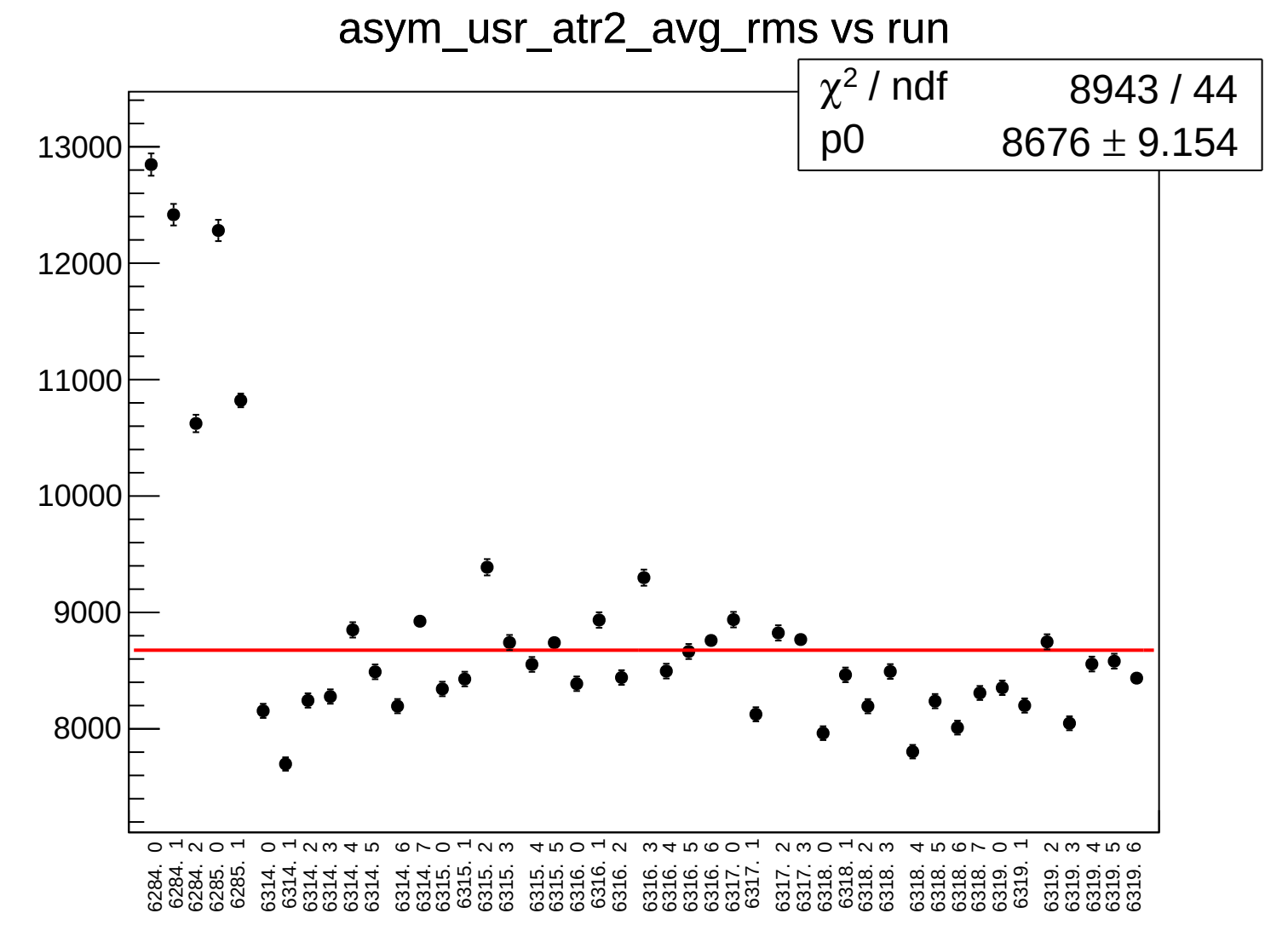

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −1.036e+04 ± 1.283e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −508.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

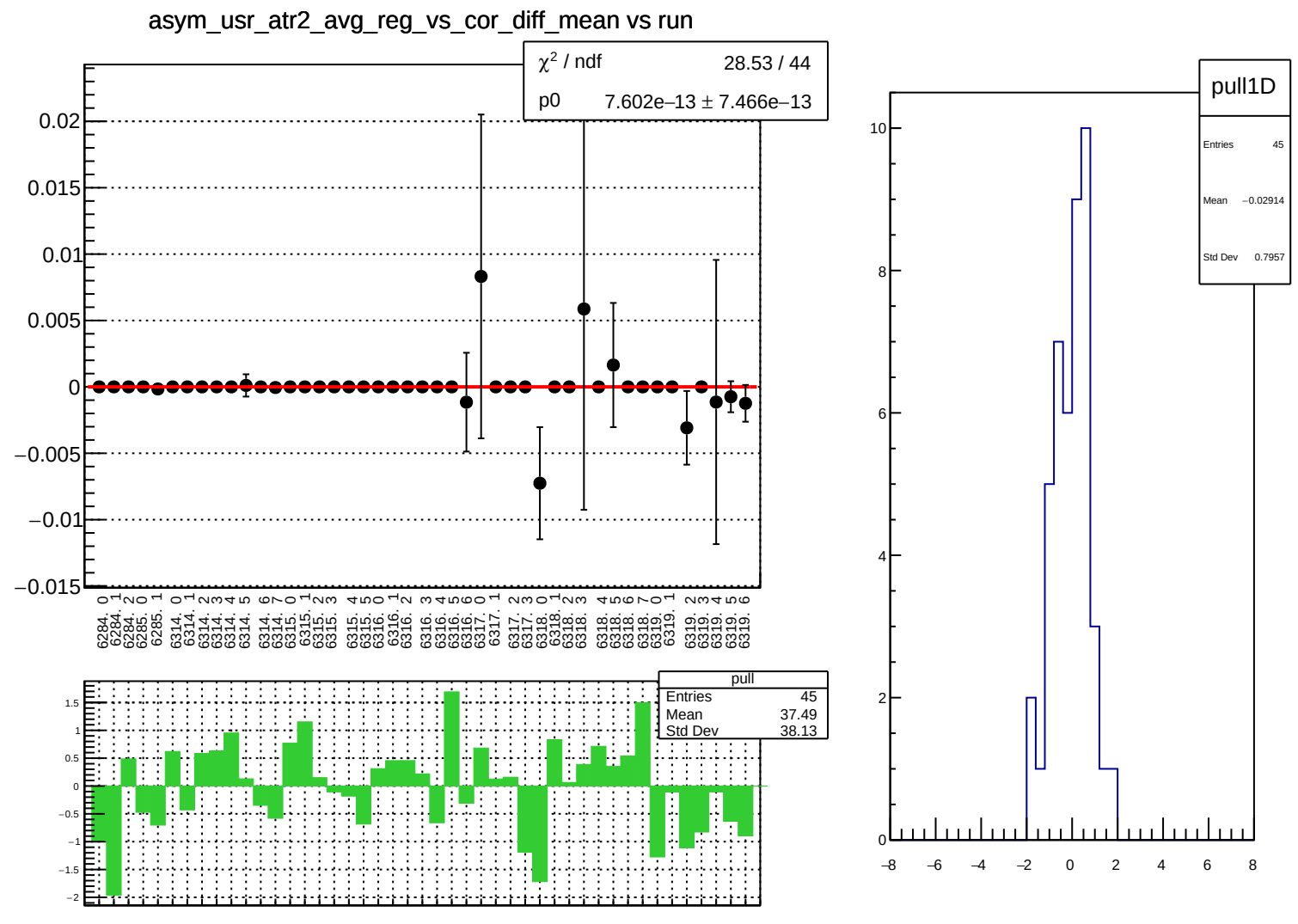

pull1D
Entries 45
Mean 0.004626
Std Dev 0.957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

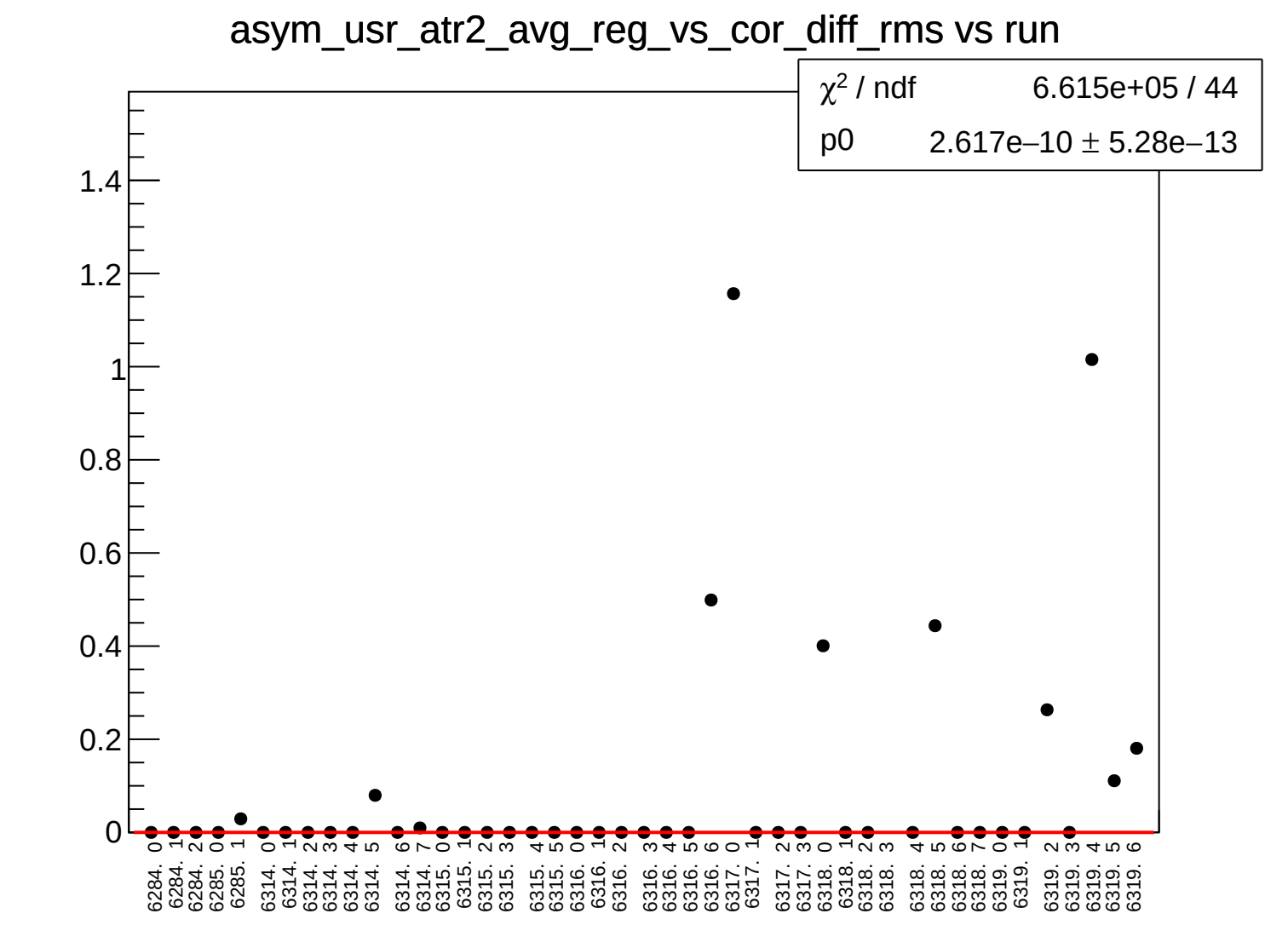

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6531 / 44
p0 8612 ± 9.075
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

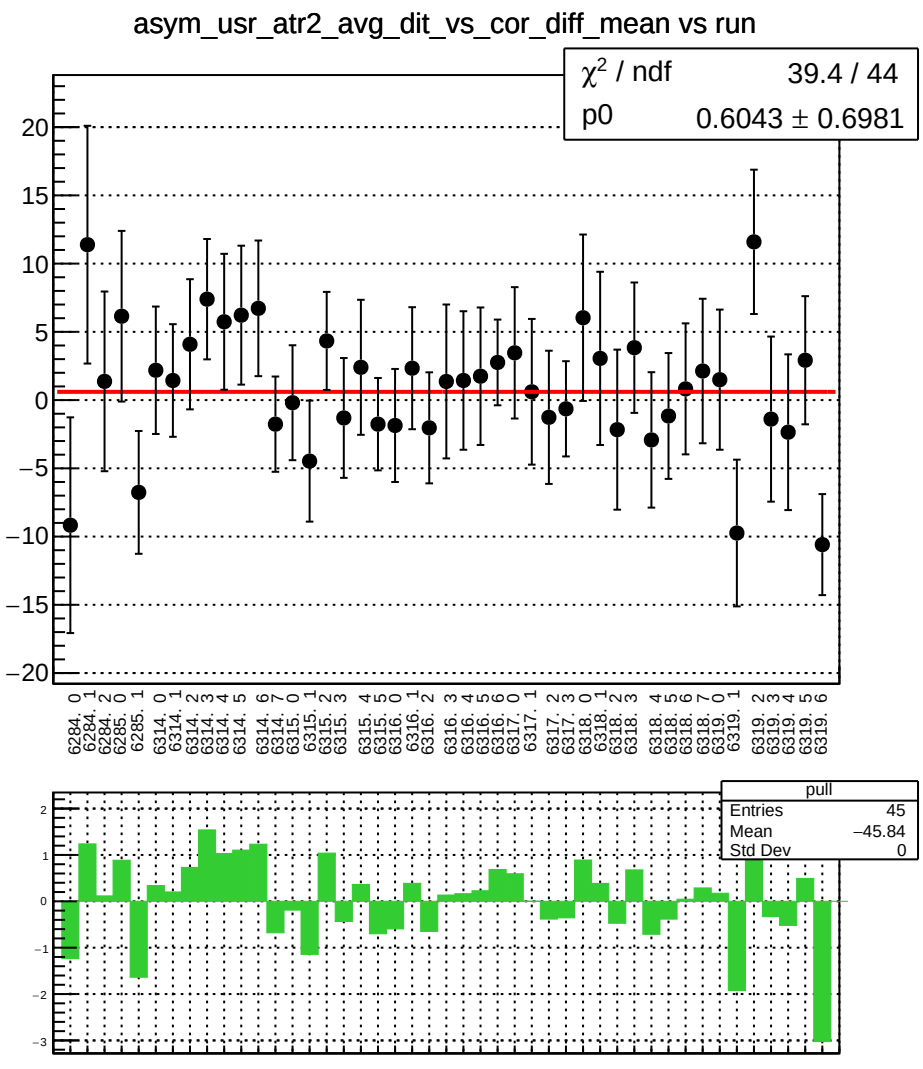

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 41.24 / 44
p0 9674 ± 1.295e+04
pull
Entries 45
Mean −1098
Std Dev 0

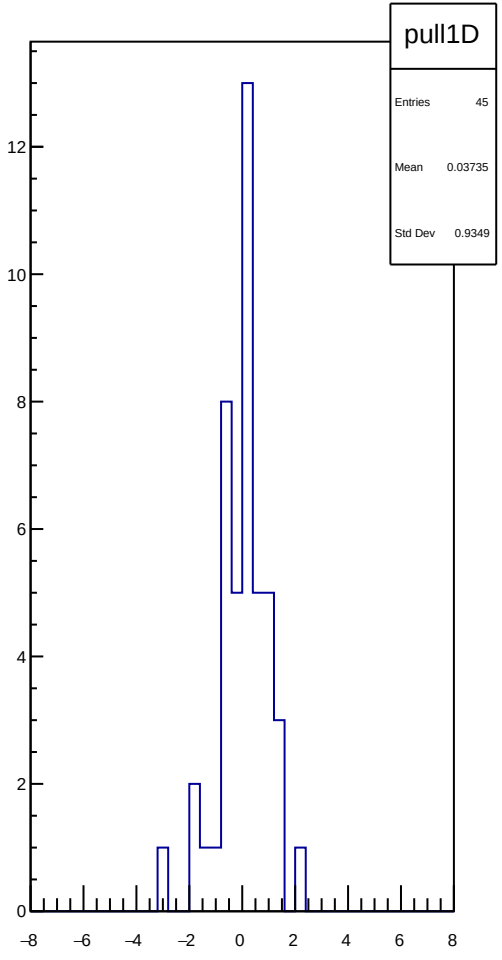

pull1D
Entries 45
Mean −0.001873
Std Dev 0.9573

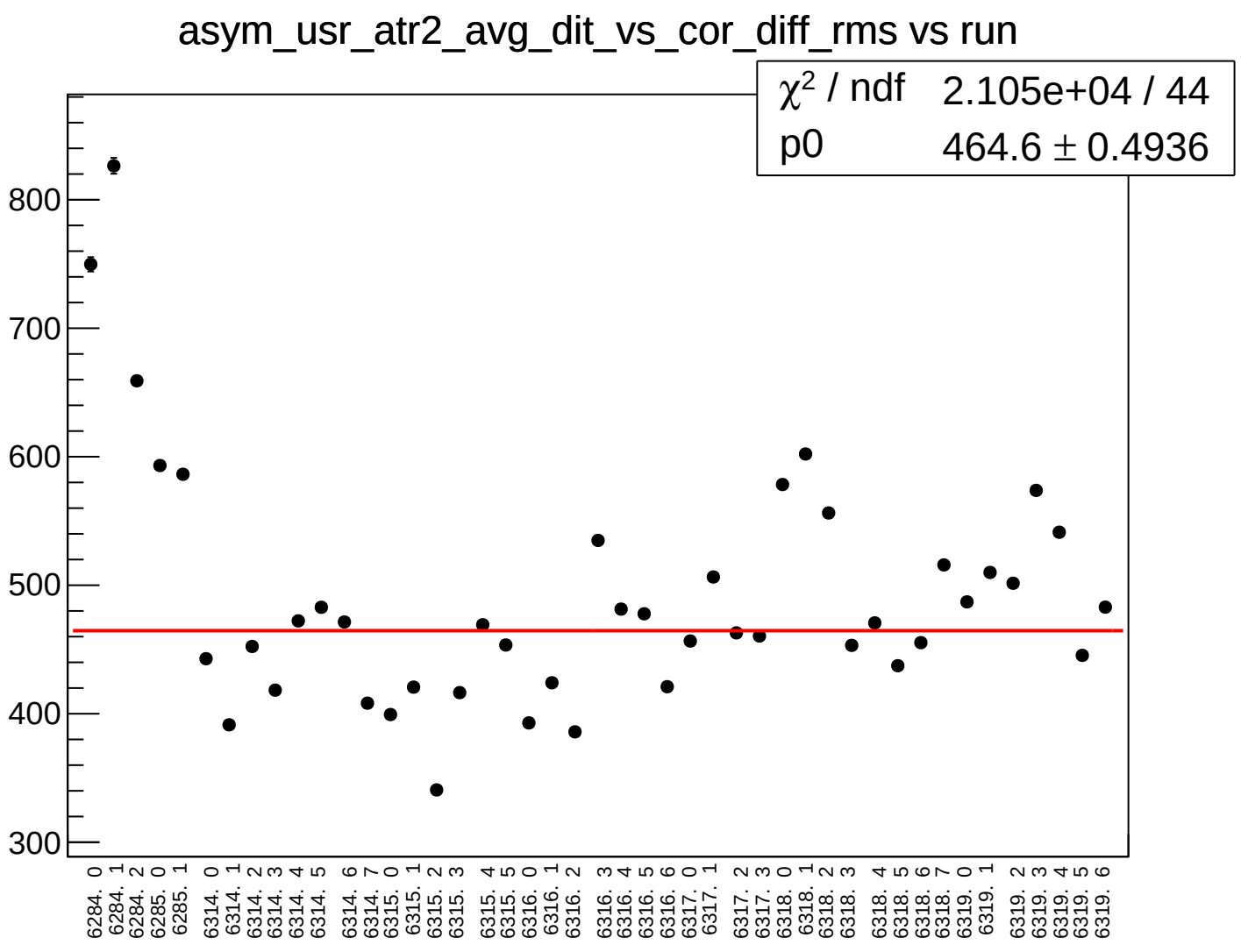

asym_usr_atr2_avg_rms vs run
χ² / ndf 8943 / 44
p0 8676 ± 9.154
13000
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

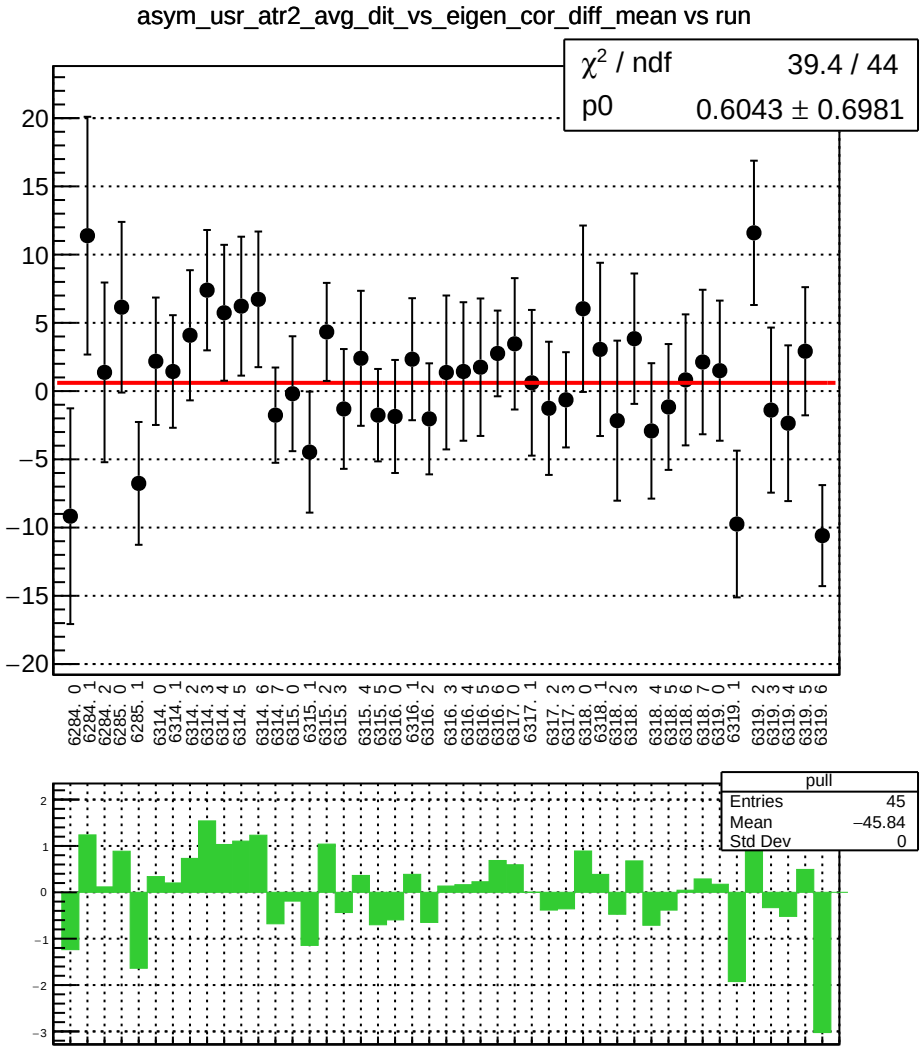

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.53 / 44
p0 7.602e−13 ± 7.466e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.49
Std Dev 38.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02914
Std Dev 0.7957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

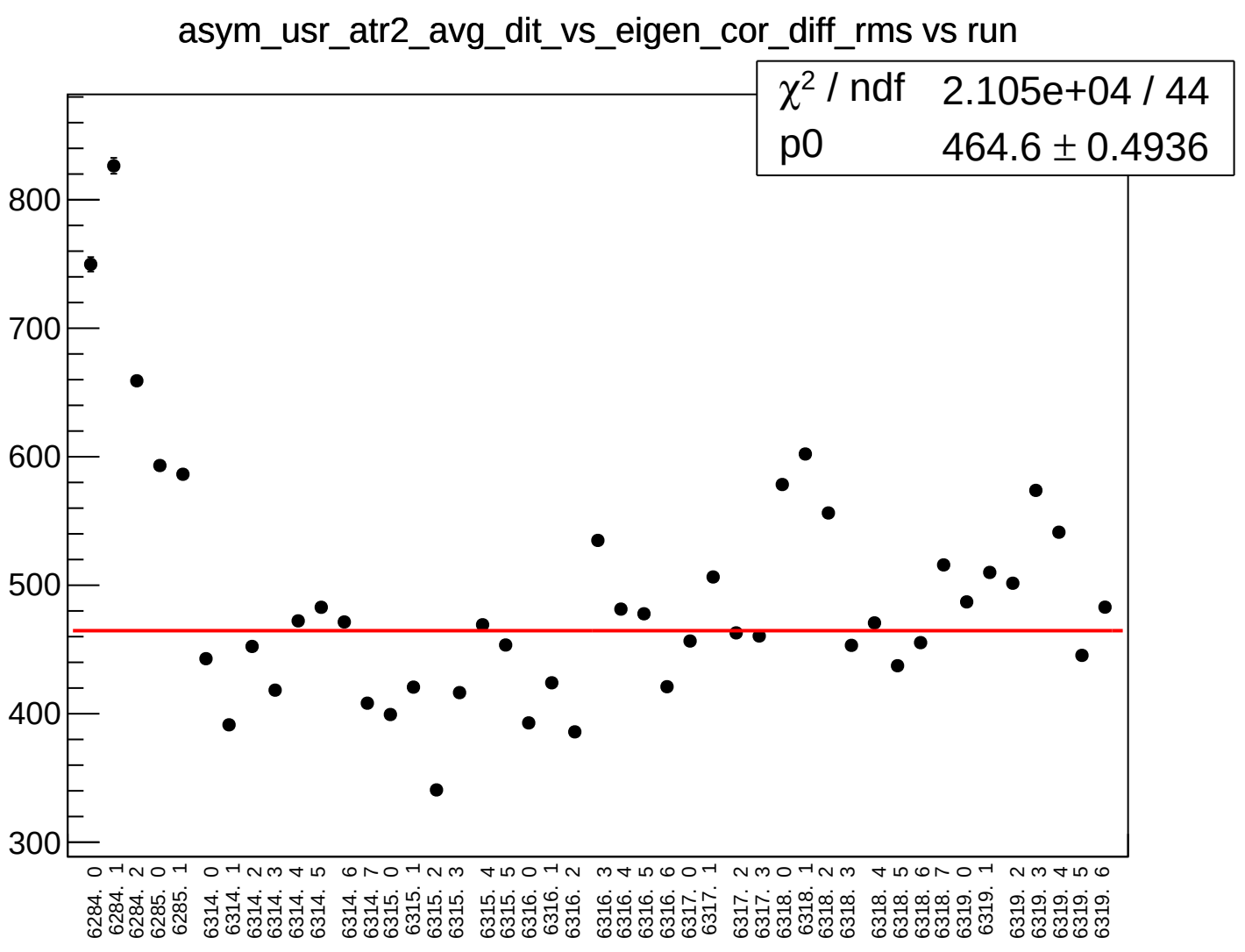

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.615e+05 / 44
p0 2.617e−10 ± 5.28e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

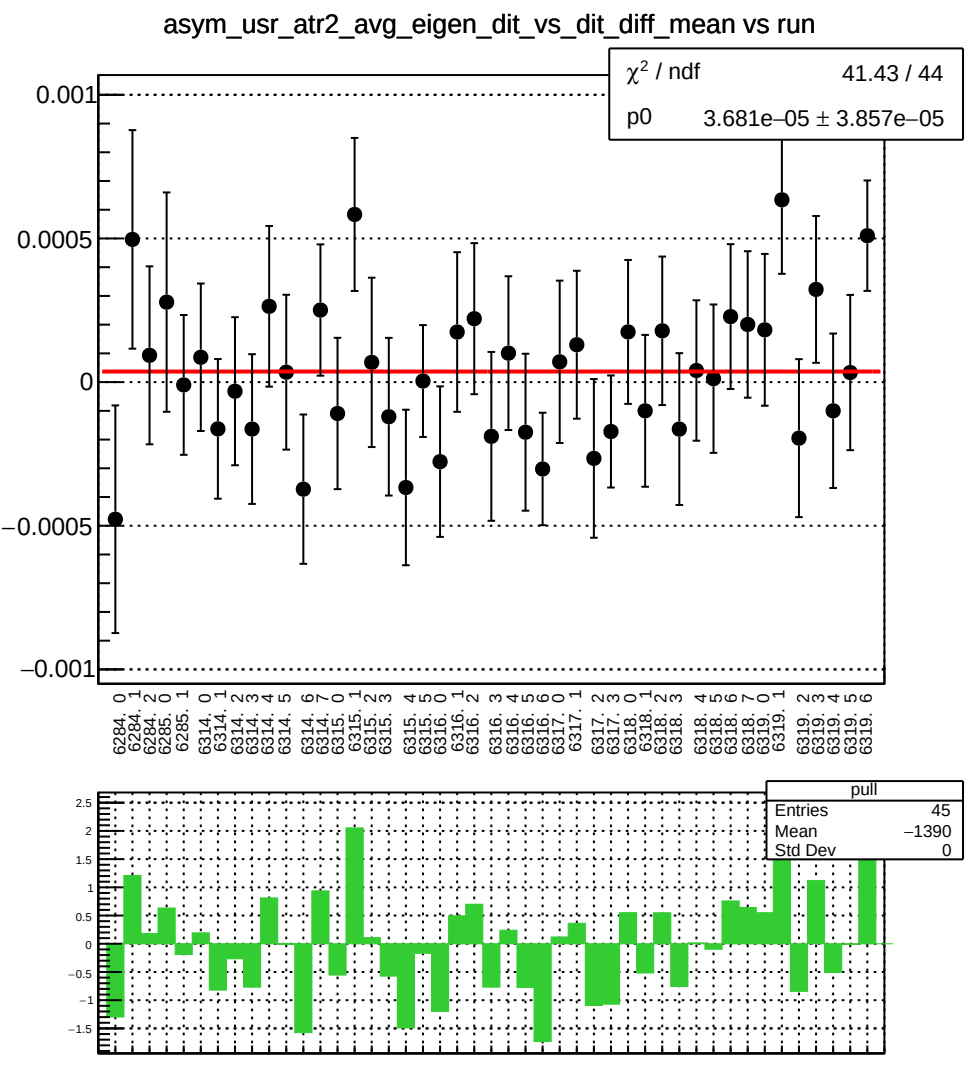

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.4 / 44
p0 0.6043 ± 0.6981
pull
Entries 45
Mean −45.84
Std Dev 0

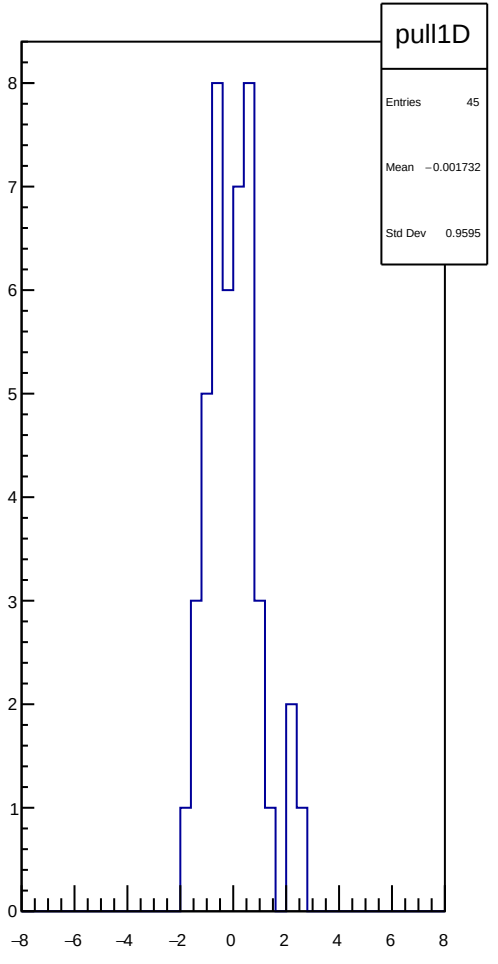

pull1D
Entries 45
Mean 0.03735
Std Dev 0.9349

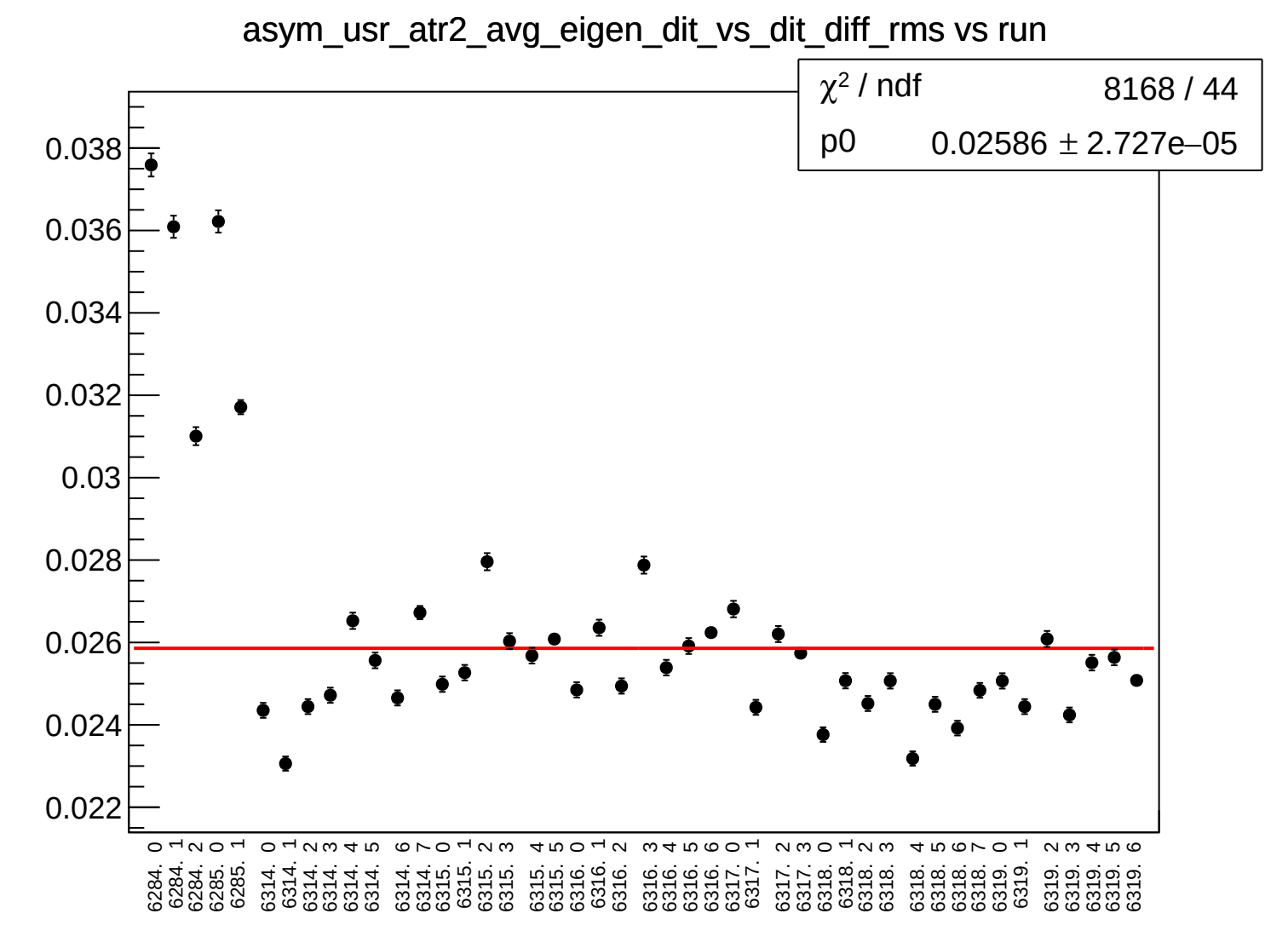

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.105e+04 / 44
p0 464.6 ± 0.4936
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.4 / 44
p0 0.6043 ± 0.6981
pull
Entries 45
Mean −45.84
Std Dev 0
pull1D
Entries 45
Mean 0.03735
Std Dev 0.9349

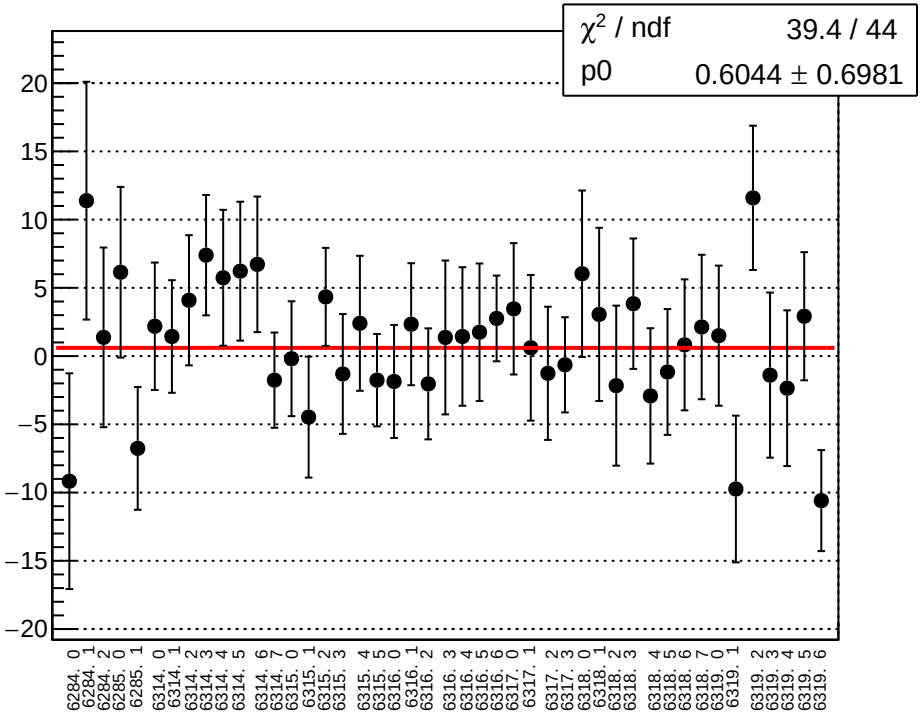

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.105e+04 / 44
p0 464.6 ± 0.4936
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

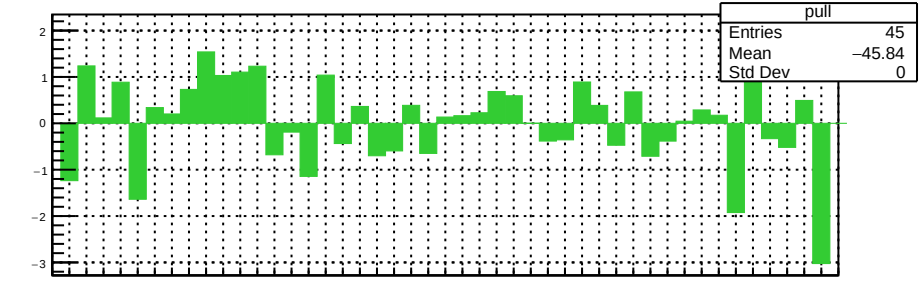

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.43 / 44
p0 3.681e−05 ± 3.857e−05
0.001
0.0005
0
−0.0005
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1390
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

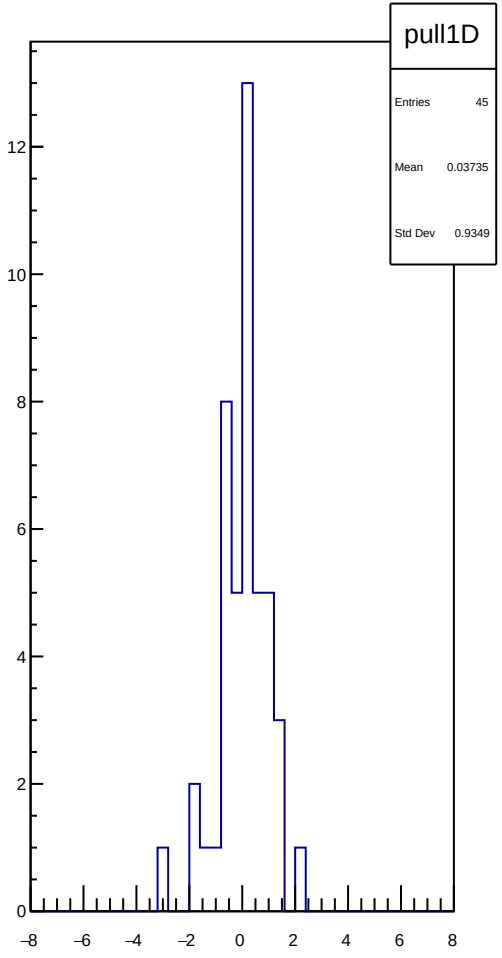

pull1D
Entries 45
Mean −0.001732
Std Dev 0.9595
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

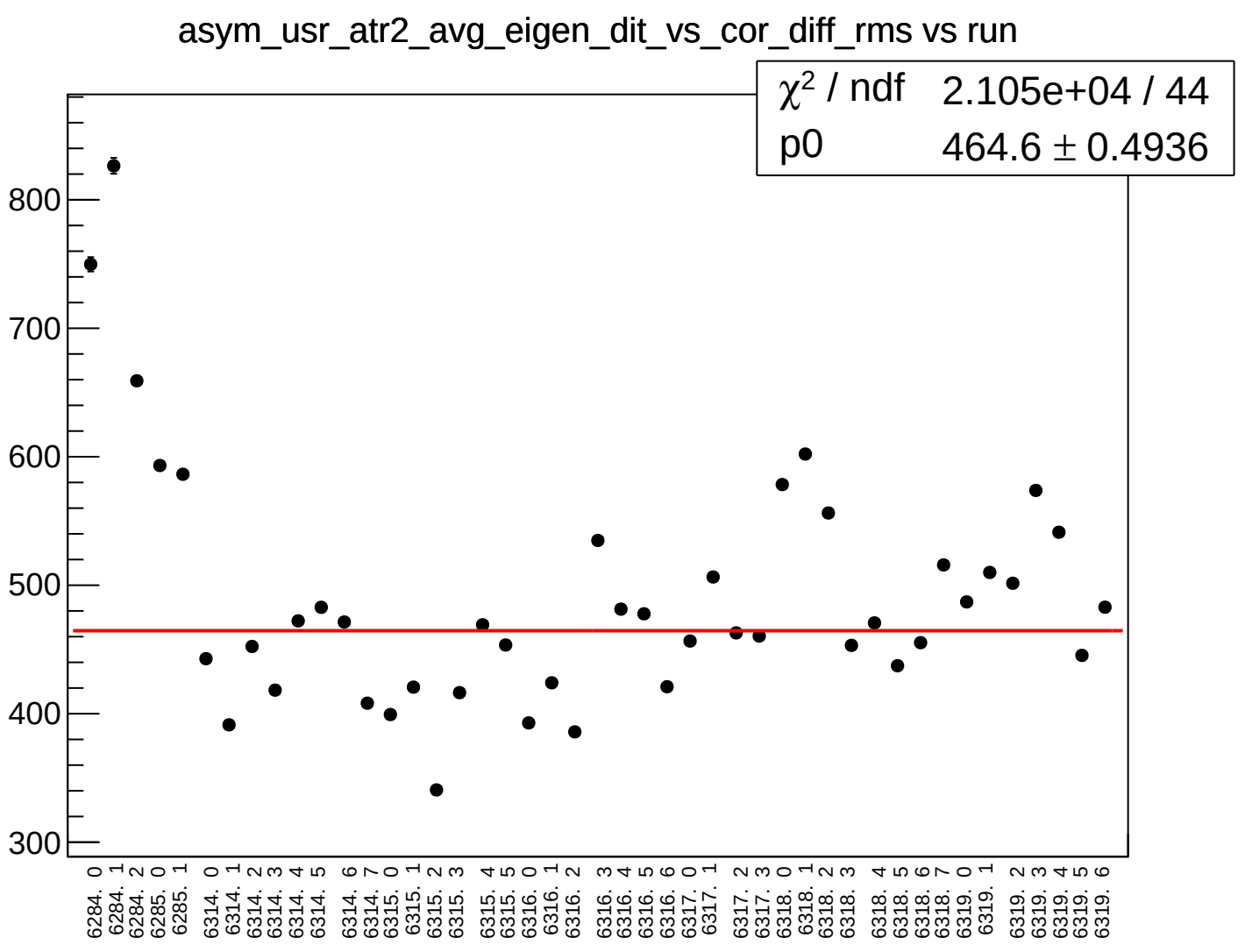

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8168 / 44
p0 0.02586 ± 2.727e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

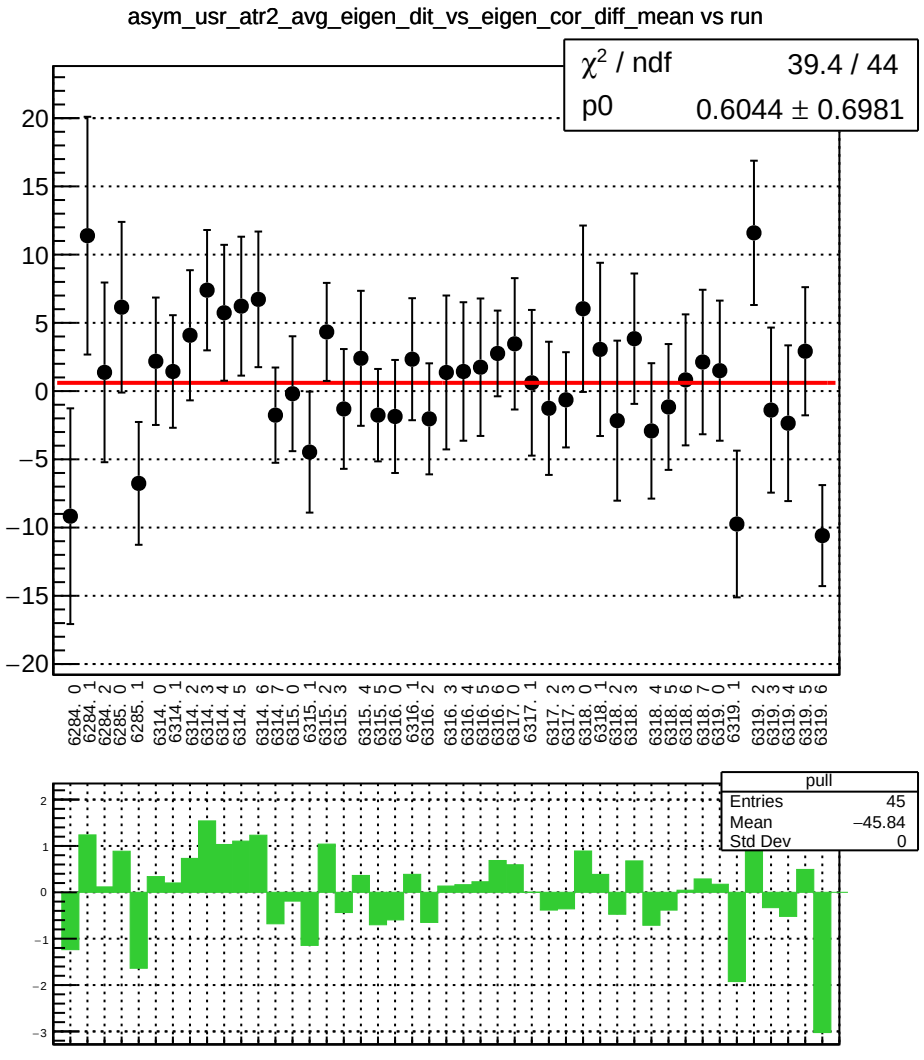
asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run

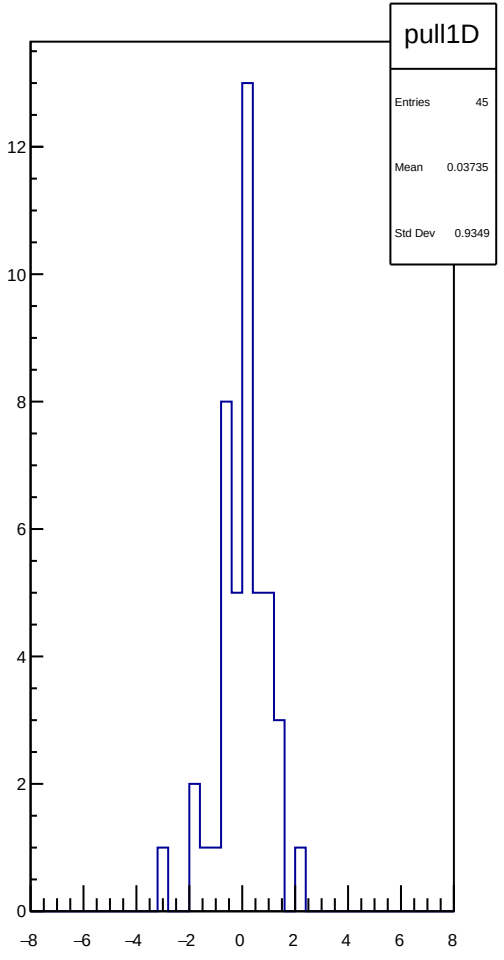


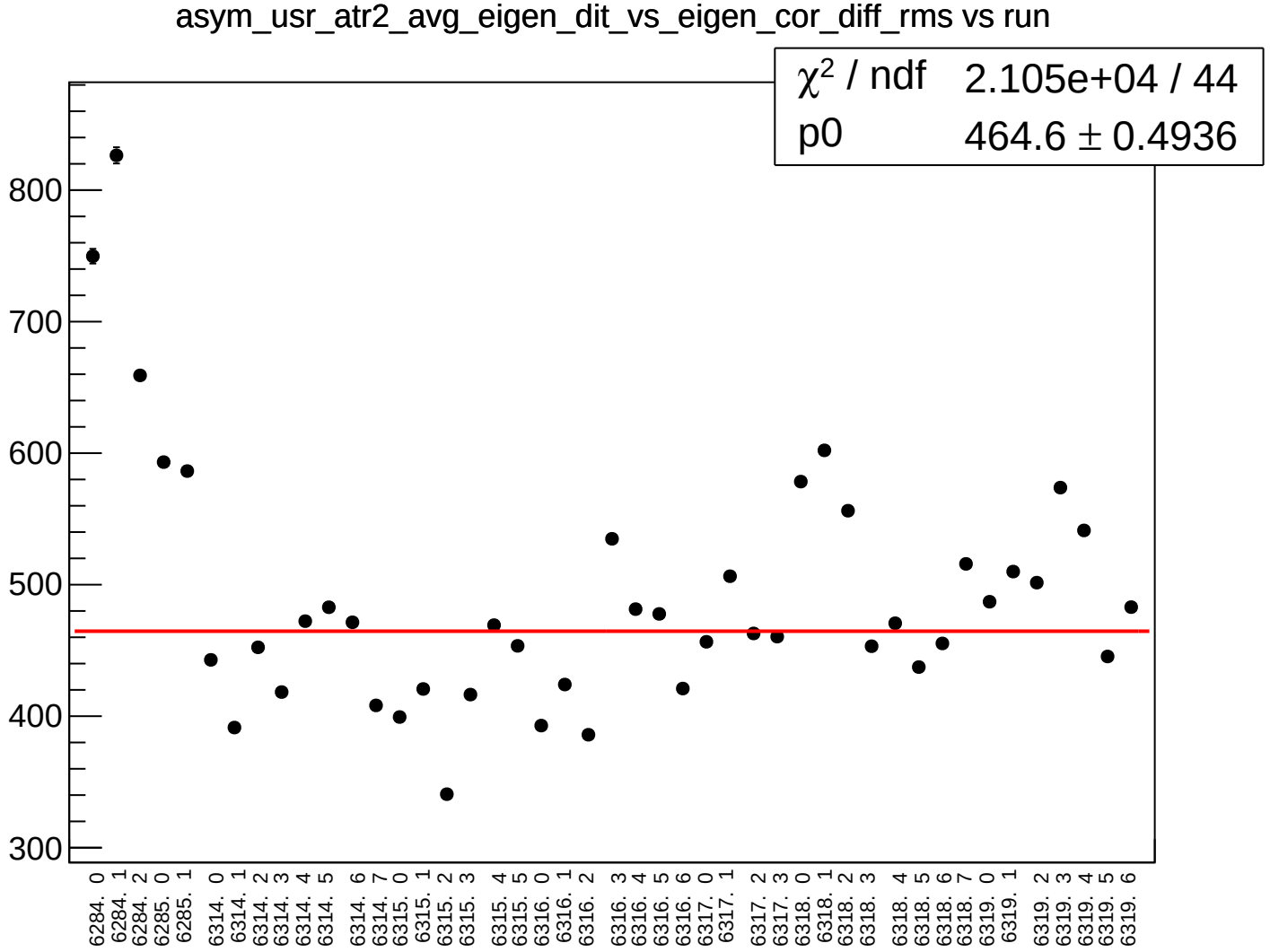


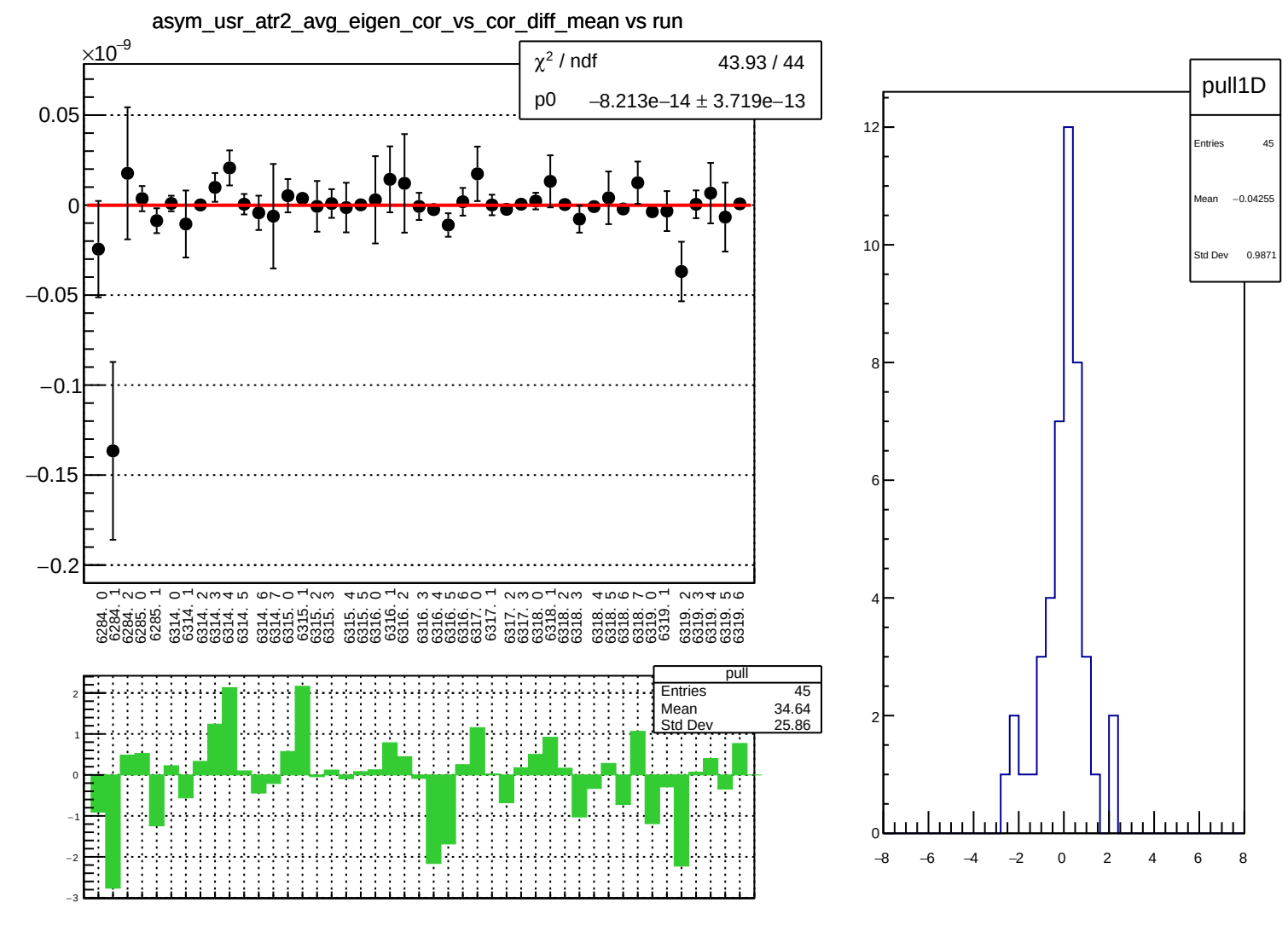


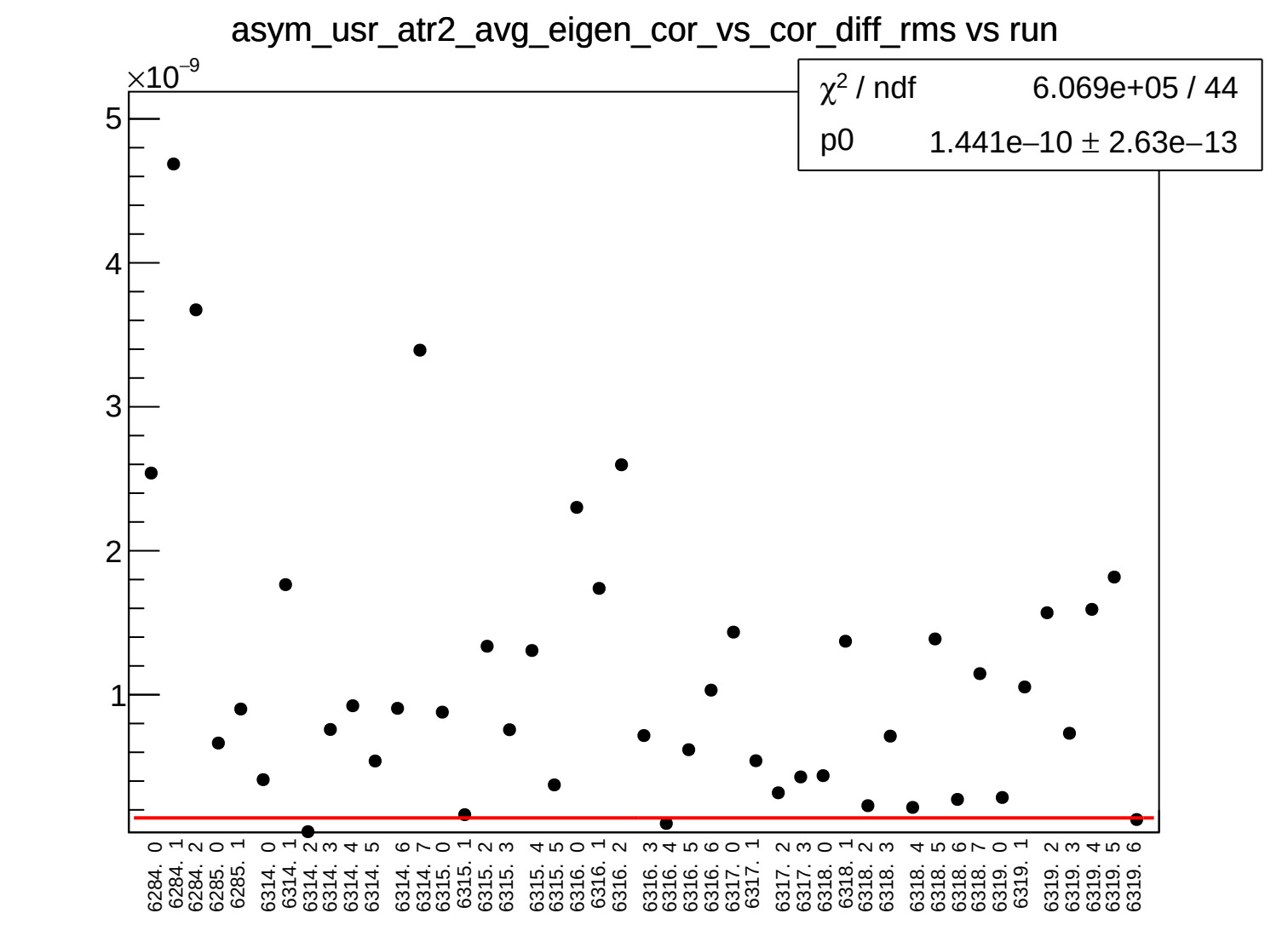

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.105e+04 / 44
p0 464.6 ± 0.4936
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

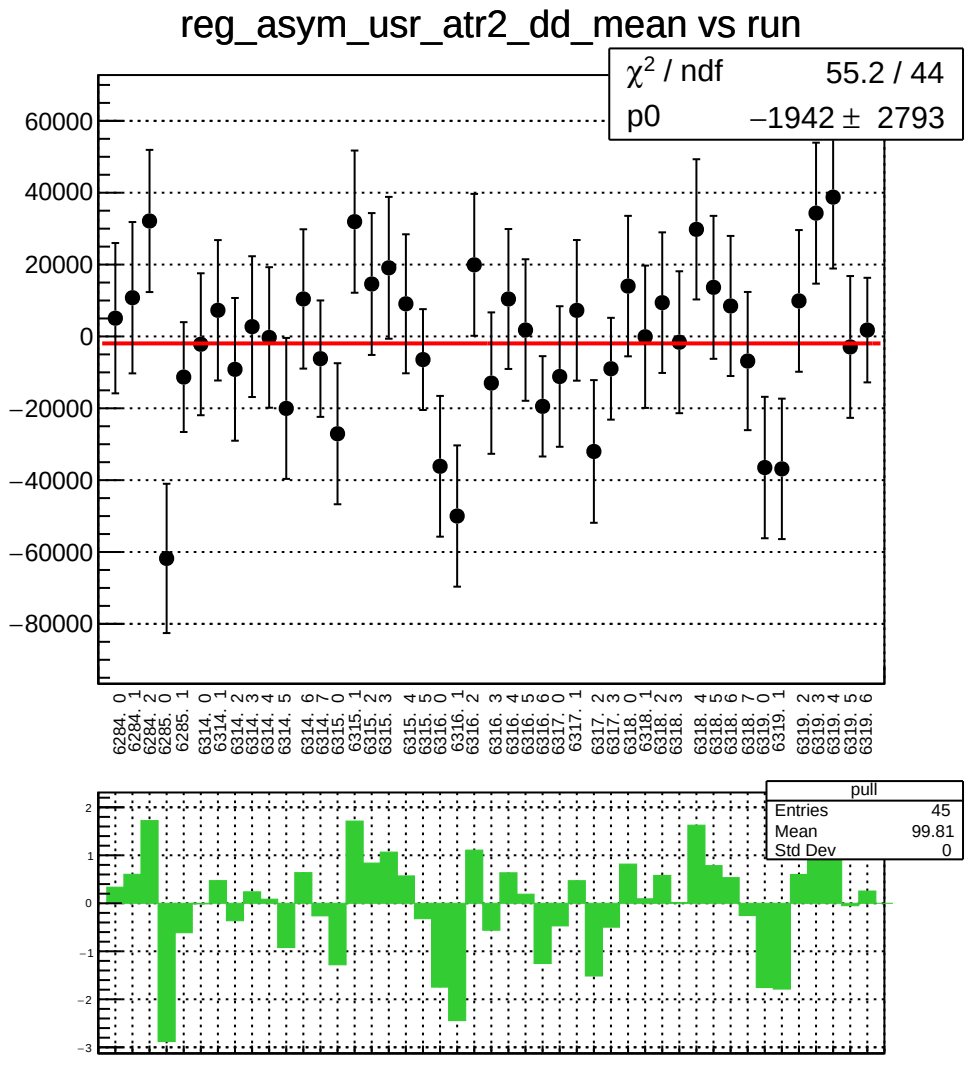

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.4 / 44
p0 0.6044 ± 0.6981
pull
Entries 45
Mean −45.84
Std Dev 0

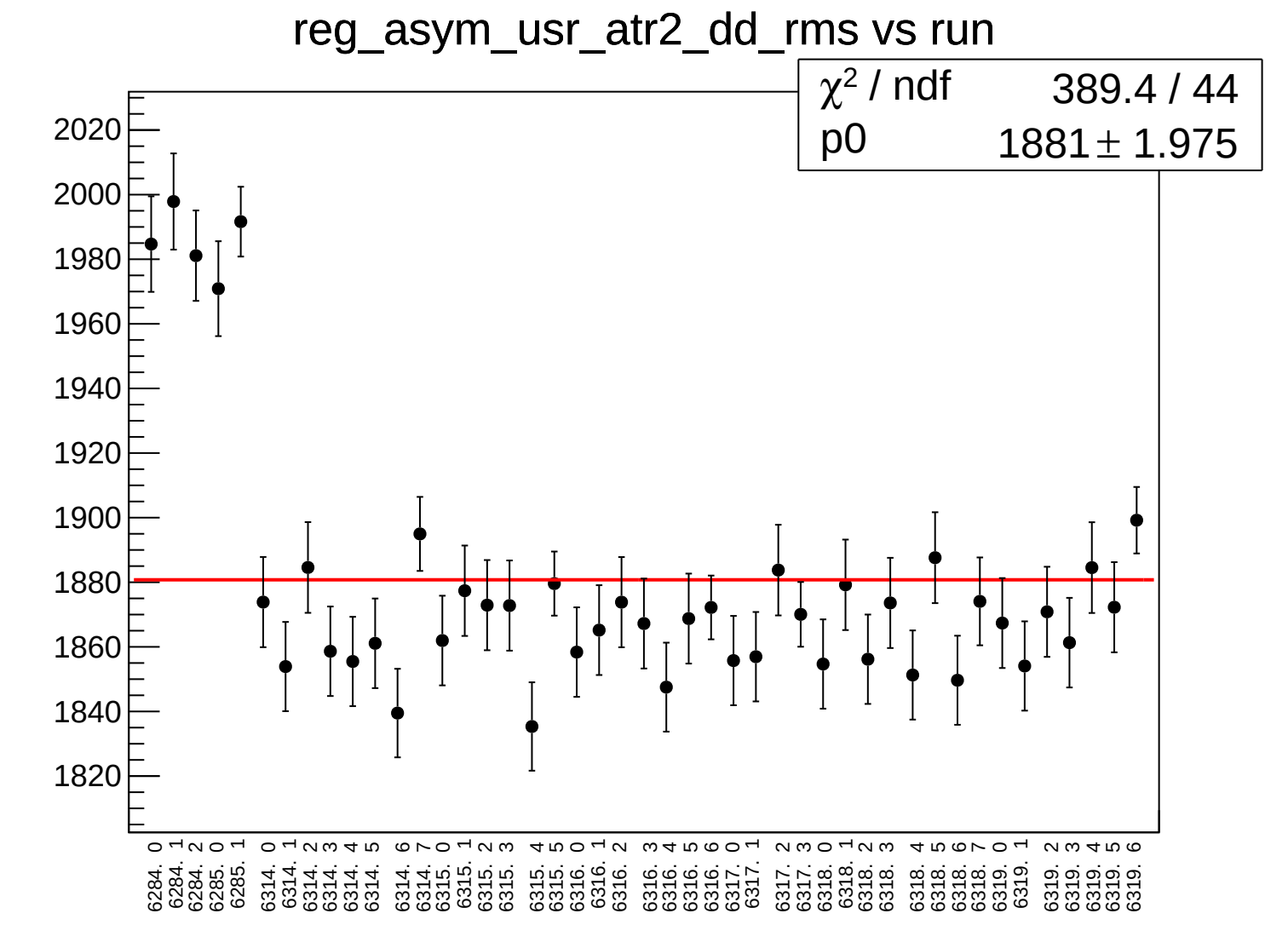

pull1D
Entries 45
Mean 0.03735
Std Dev 0.9349

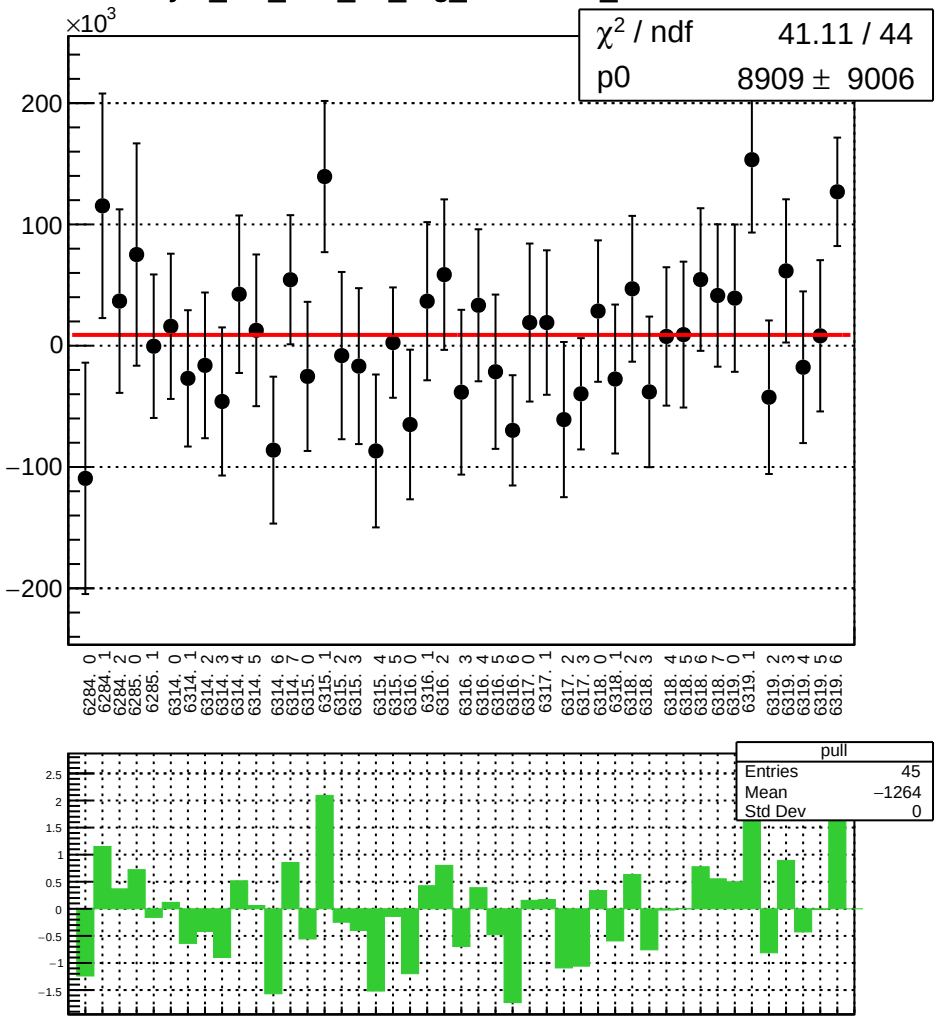

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.105e+04 / 44
p0 464.6 ± 0.4936
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

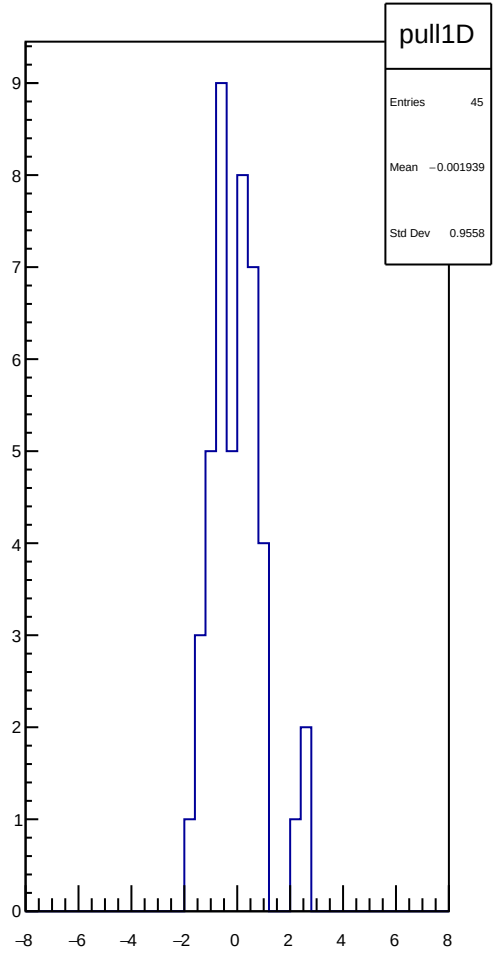

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 43.93 / 44
p0 −8.213e−14 ± 3.719e−13
0.05
0
−0.05
−0.1
−0.15
−0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 34.64
Std Dev 25.86
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.04255
Std Dev 0.9871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

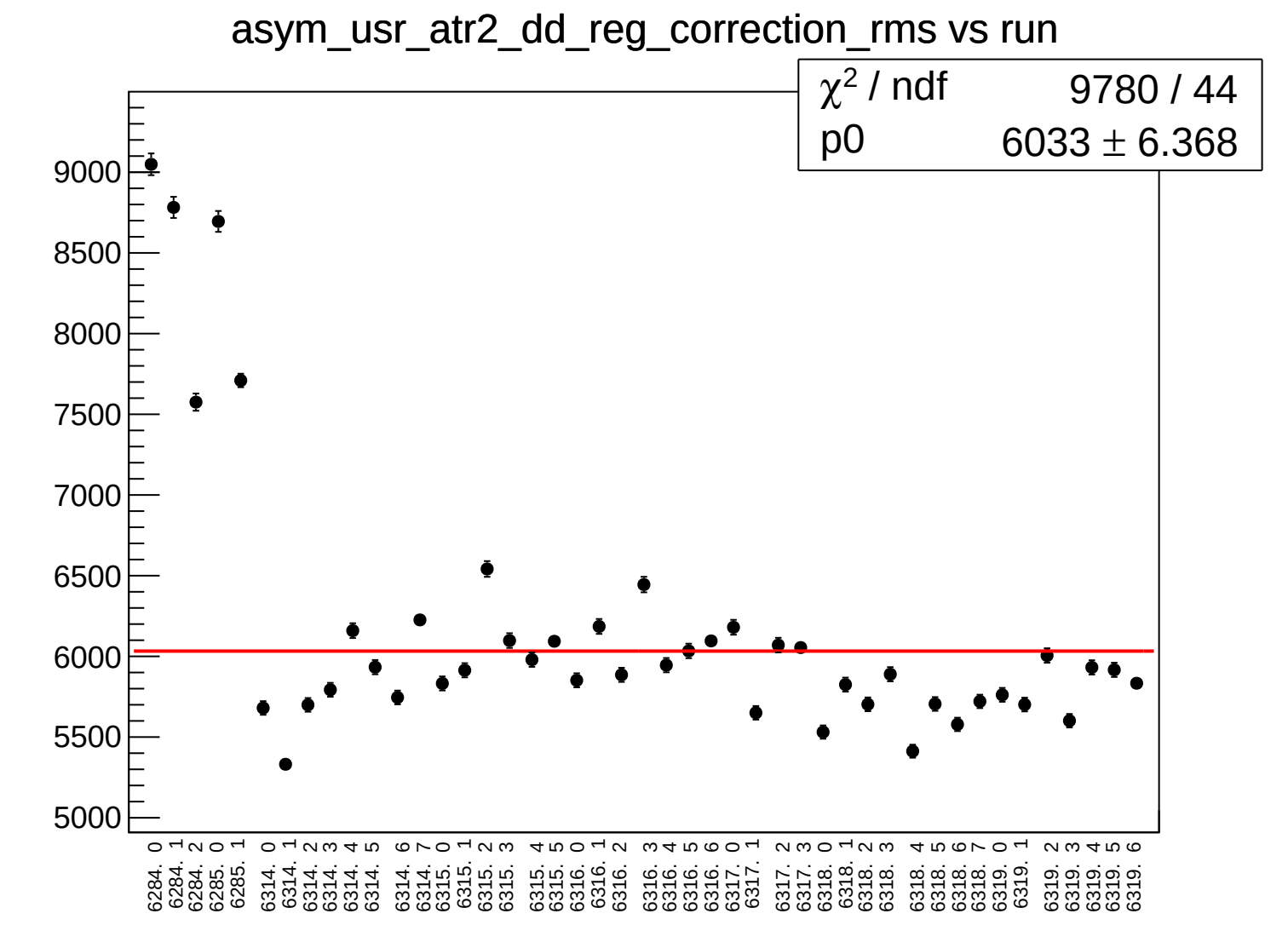

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.069e+05 / 44
p0 1.441e−10 ± 2.63e−13
5
4
3
2
1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

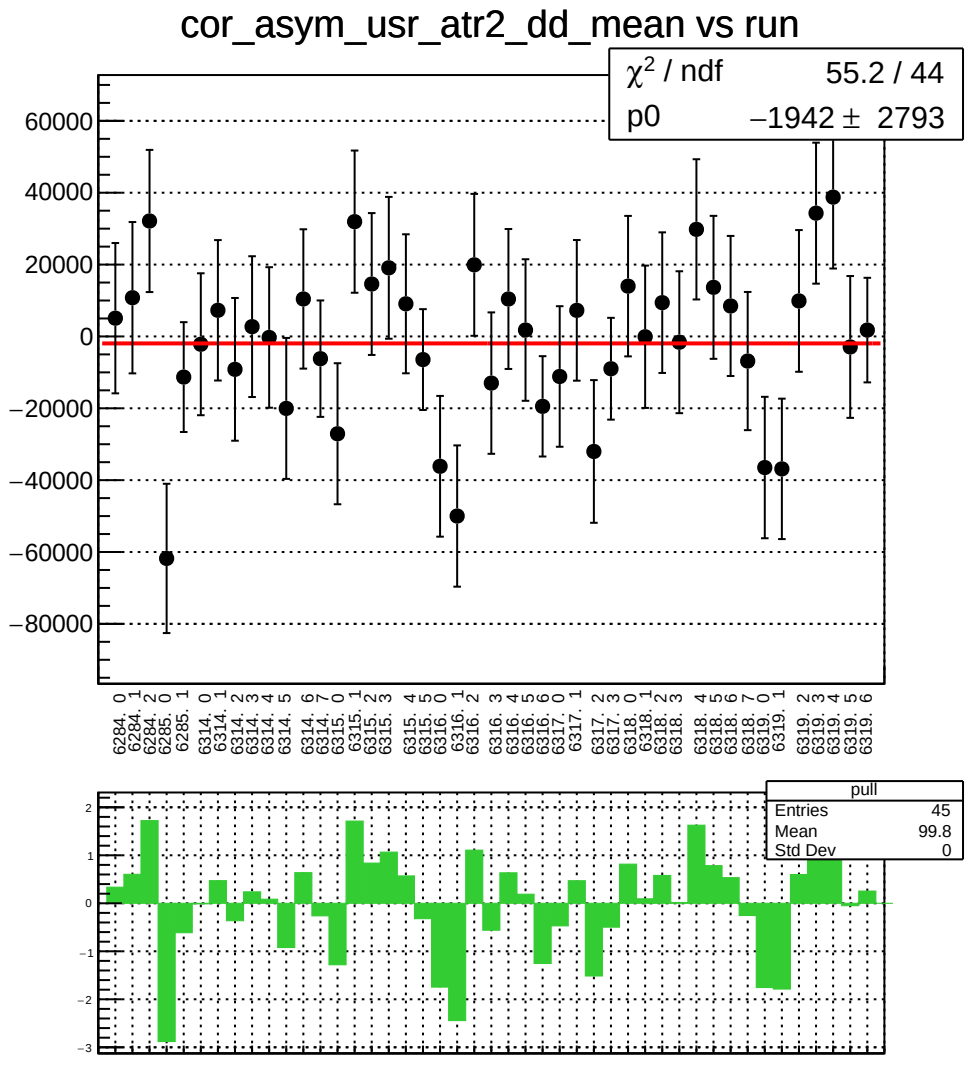

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 55.2 / 44
p0 −1942 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 99.81
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01997
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

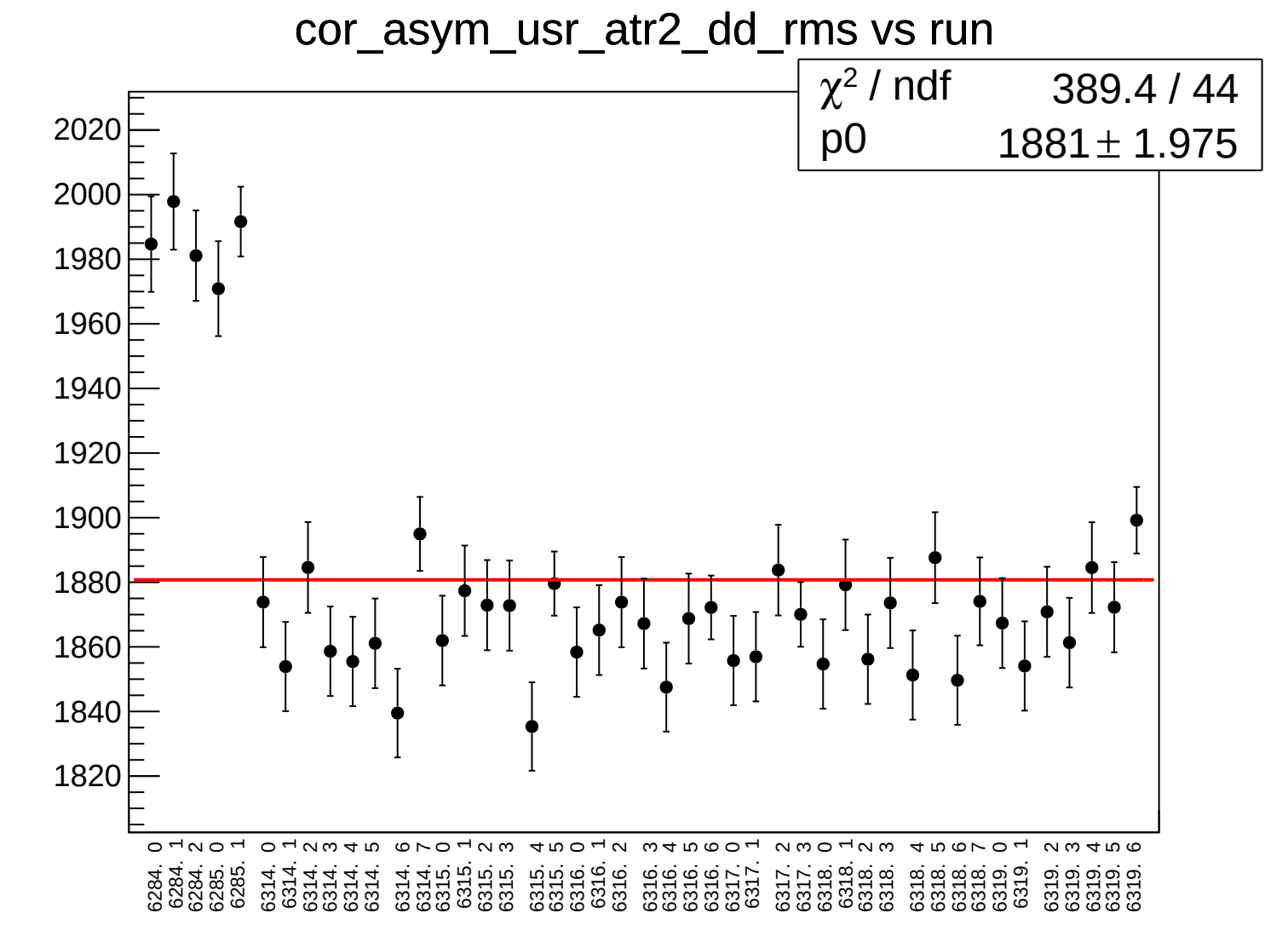

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 389.4 / 44
p0 1881 ± 1.975
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 8909 ± 9006
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1264
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001939
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 9780 / 44
p0 6033 ± 6.368
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 55.2 / 44
p0 −1942 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 99.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01997
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 389.4 / 44
p0 1881 ± 1.975
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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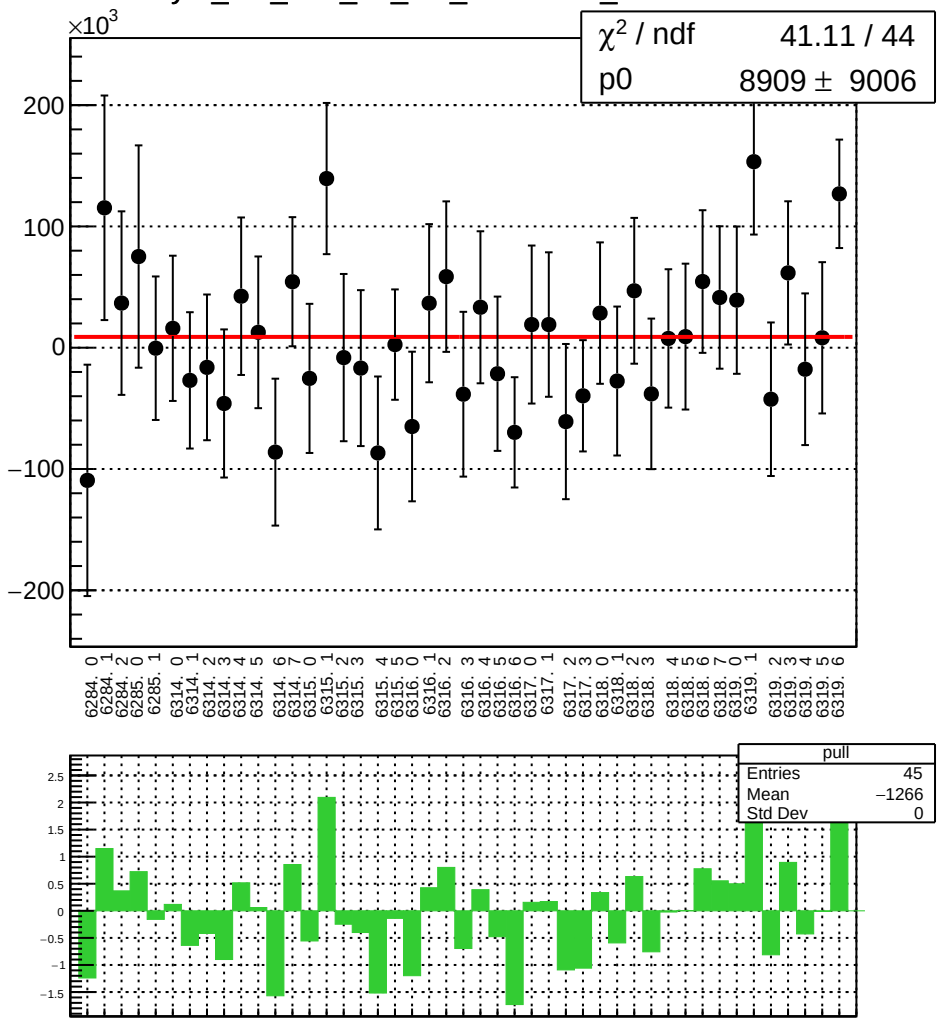
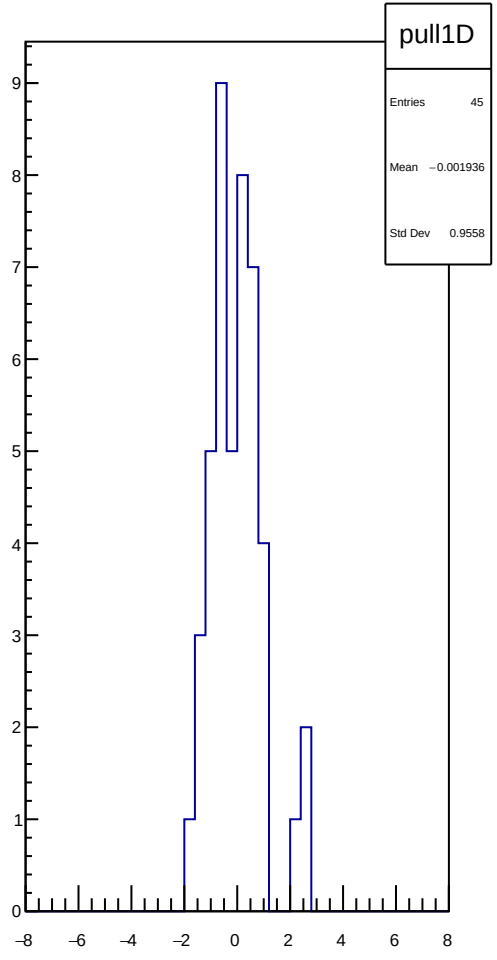
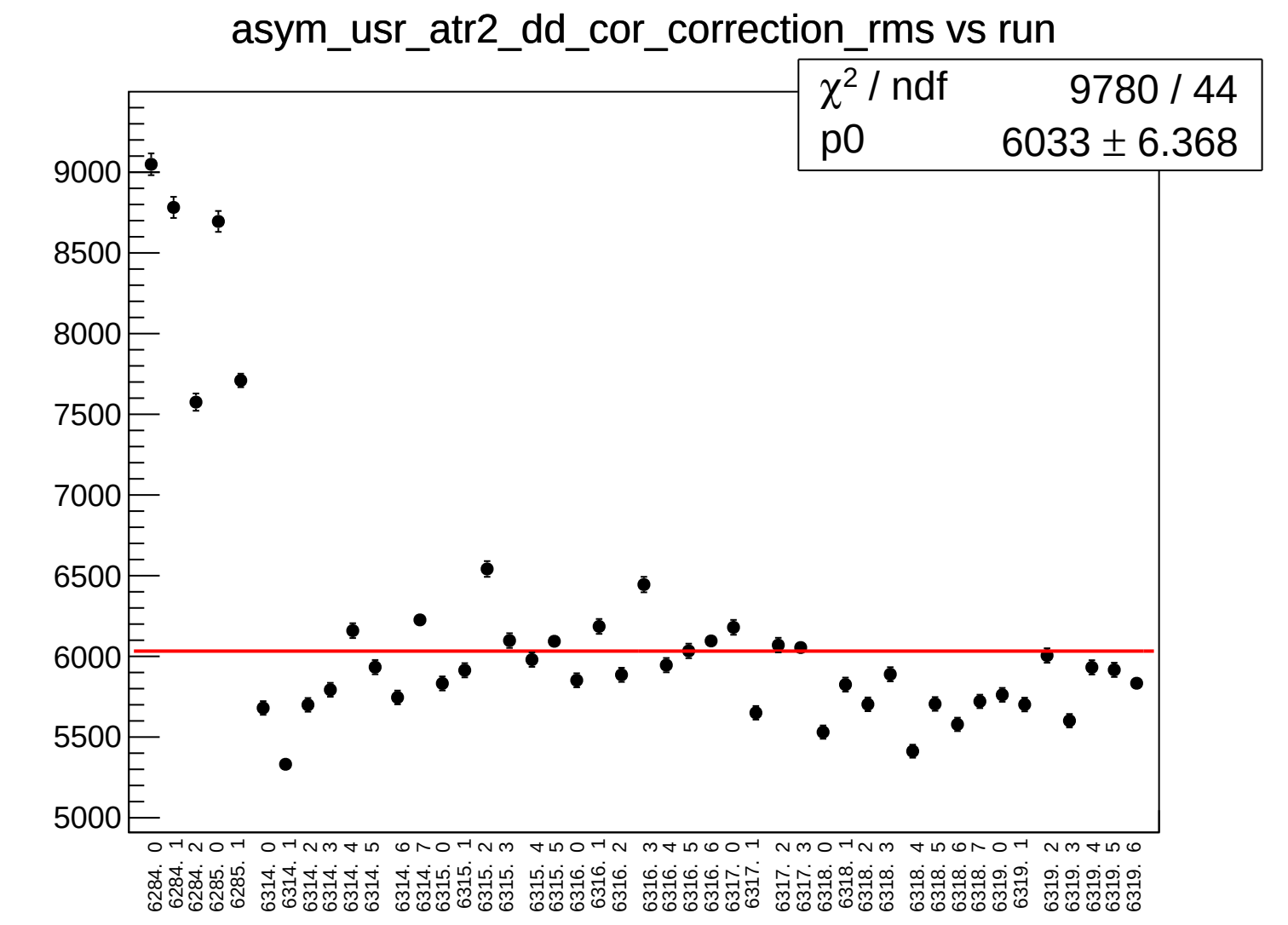
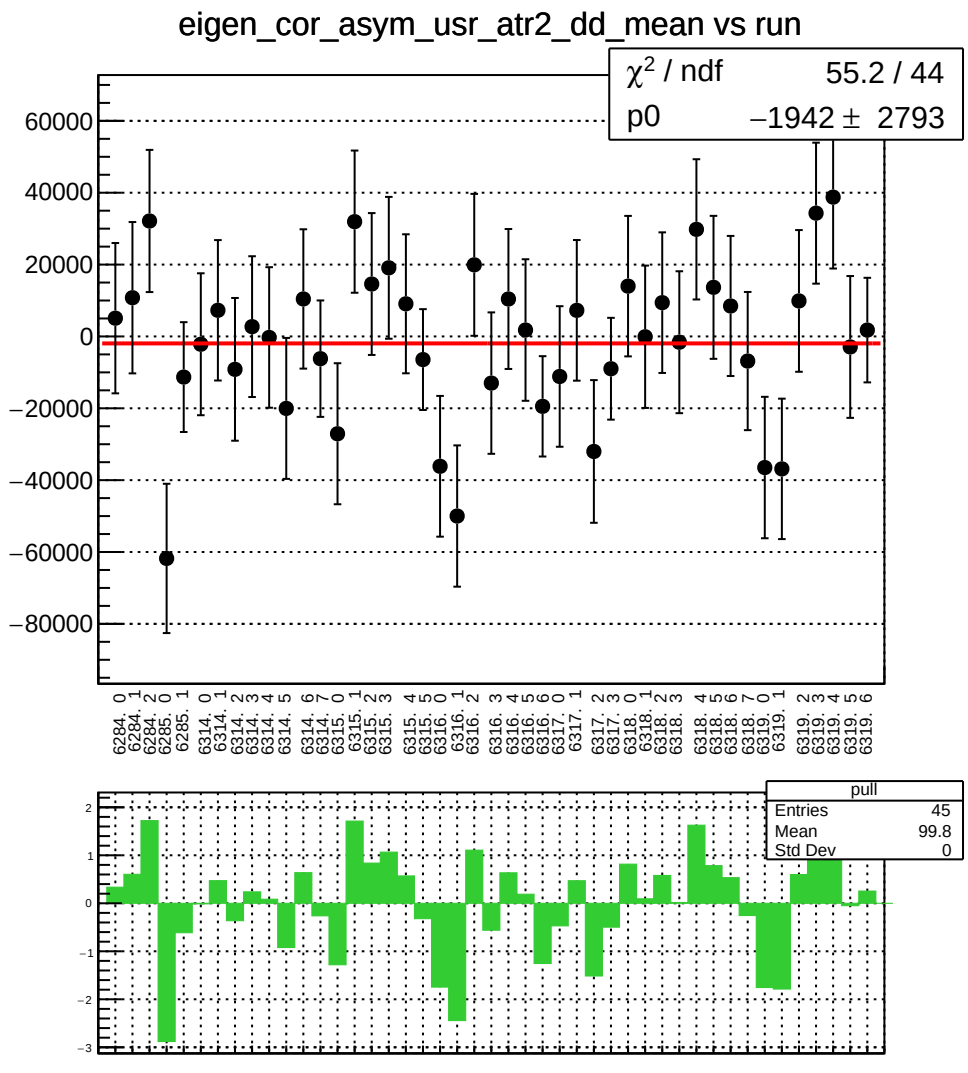
6319. 5
6319. 6


asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 8909 ± 9006
200
100
0
−100
−200
6284. 0
6284. 1
6284. 6
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1266
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001936
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 9780 / 44
p0 6033 ± 6.368
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 55.2 / 44
p0 −1942 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
6318. 3
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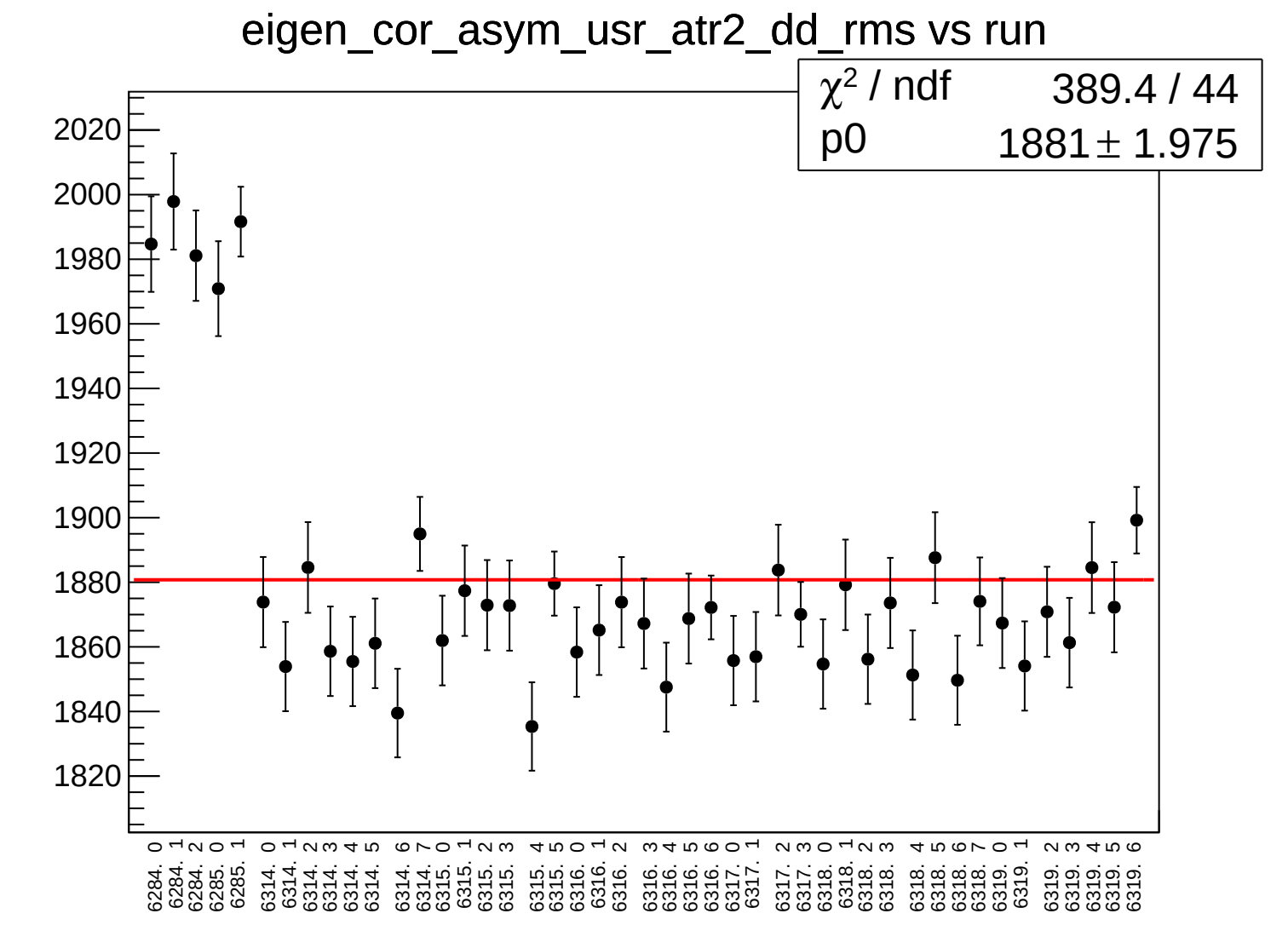
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 99.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01997
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 389.4 / 44
p0 1881 ± 1.975
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
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6316. 4
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6316. 6
6317. 0
6317. 1
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6317. 3
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6318. 1
6318. 2
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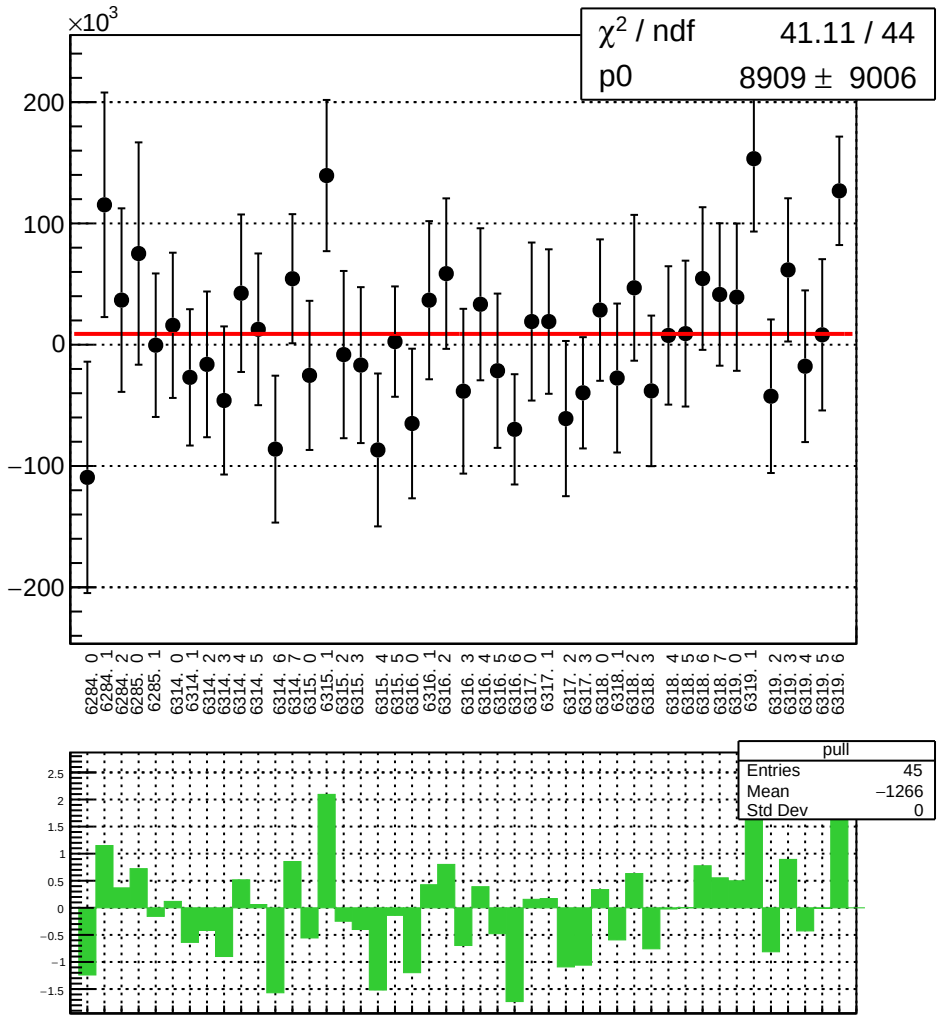
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.11 / 44
p0 8909 ± 9006
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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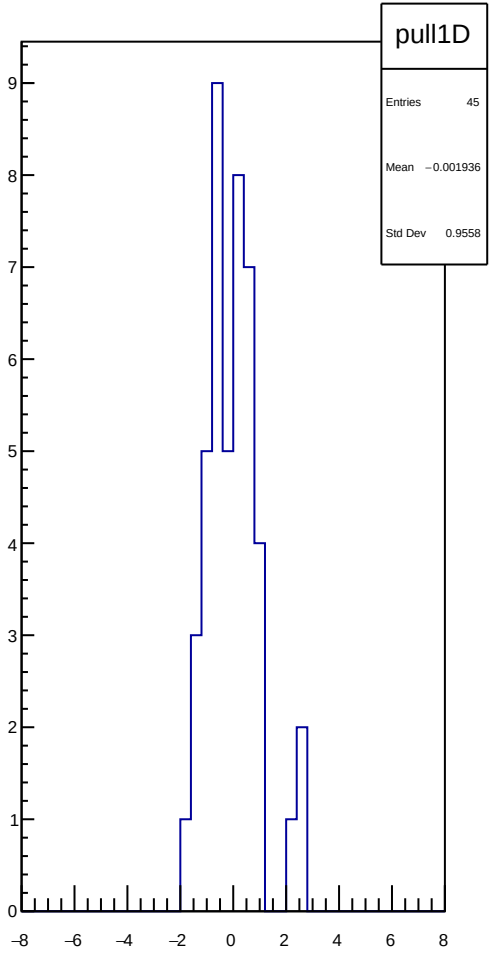
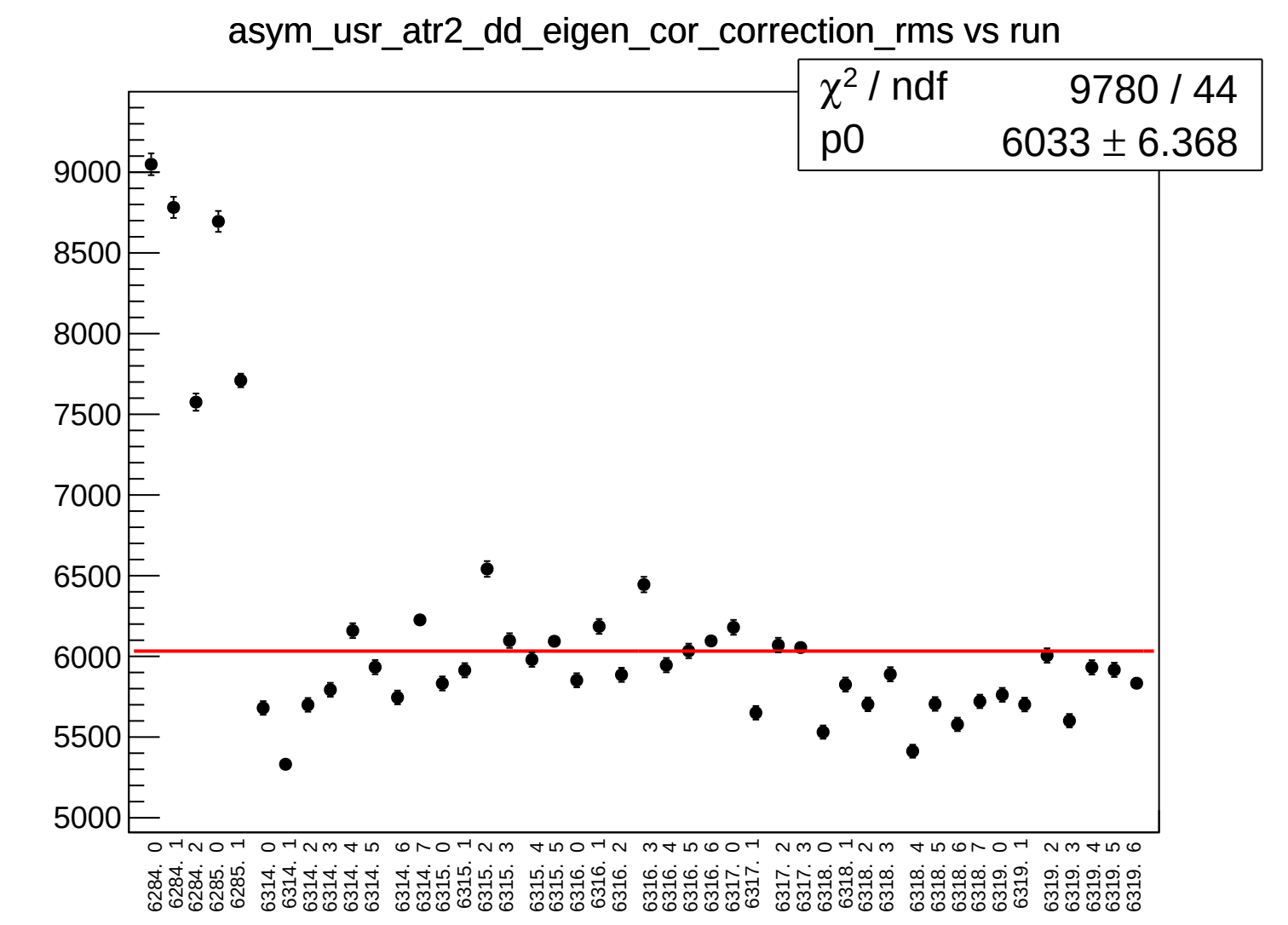
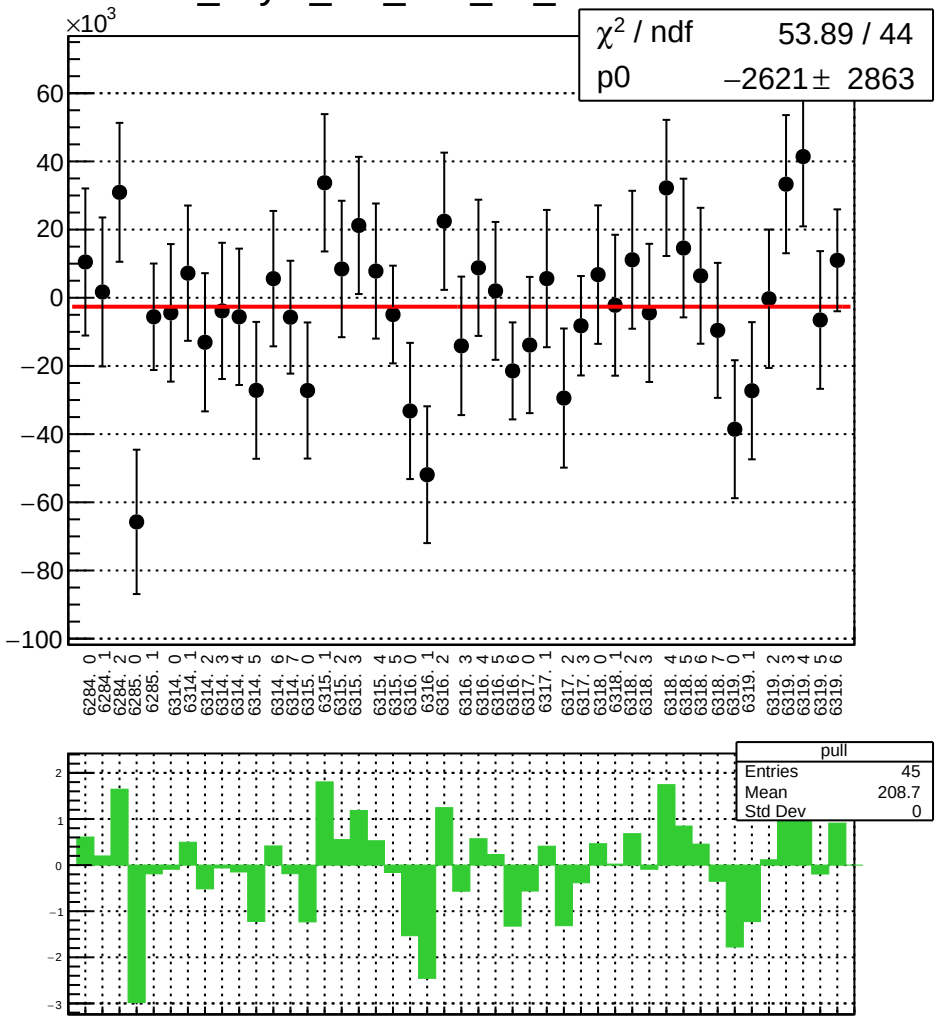
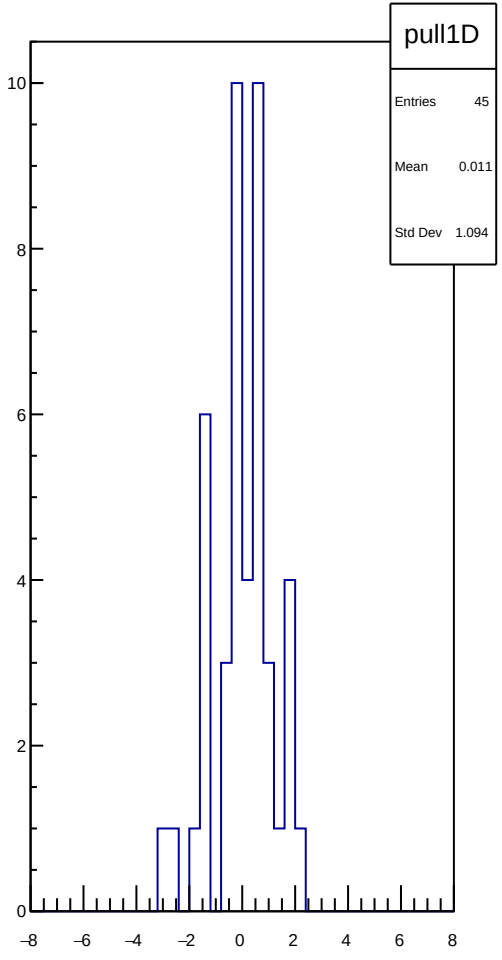
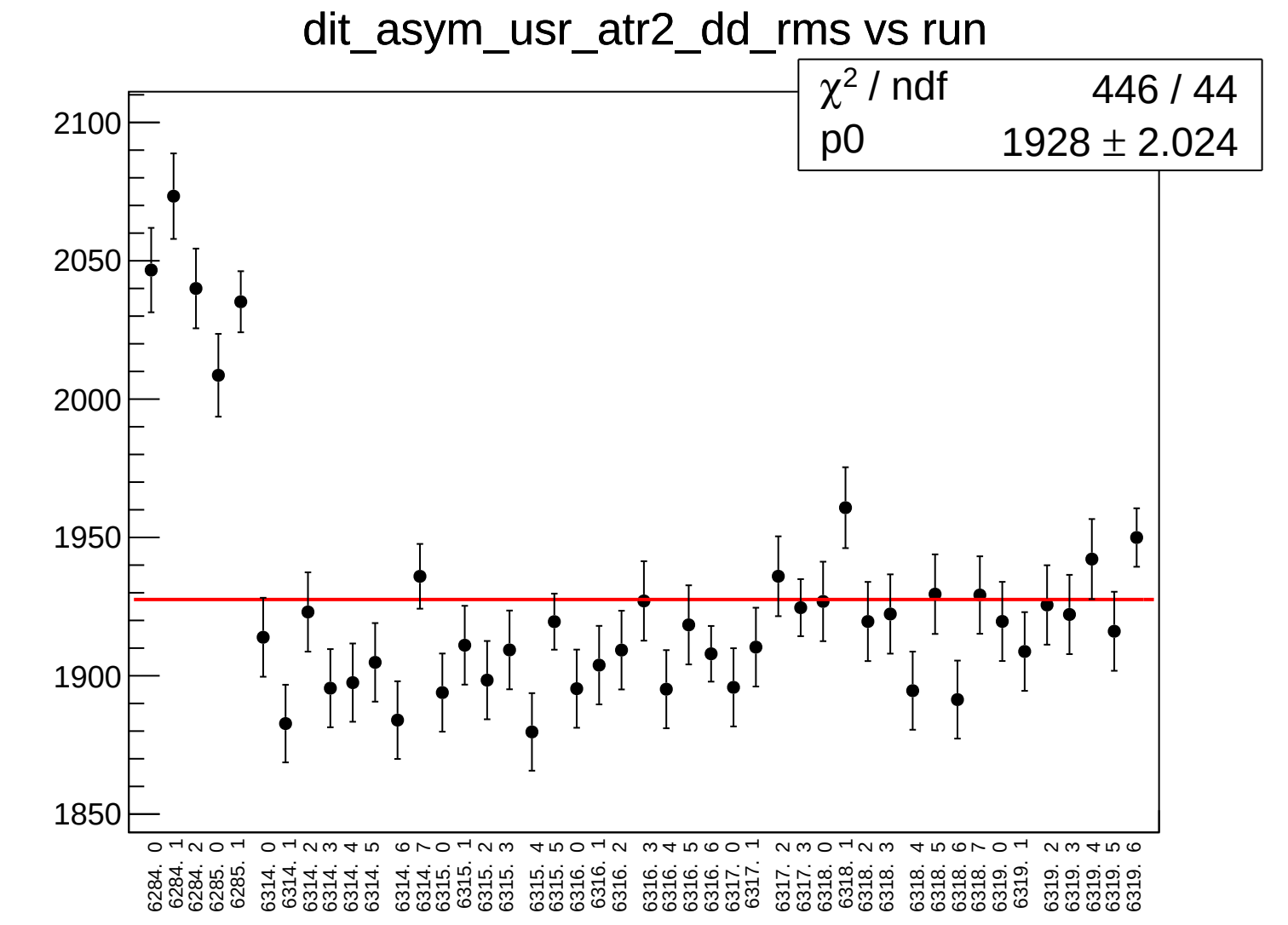
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1266
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

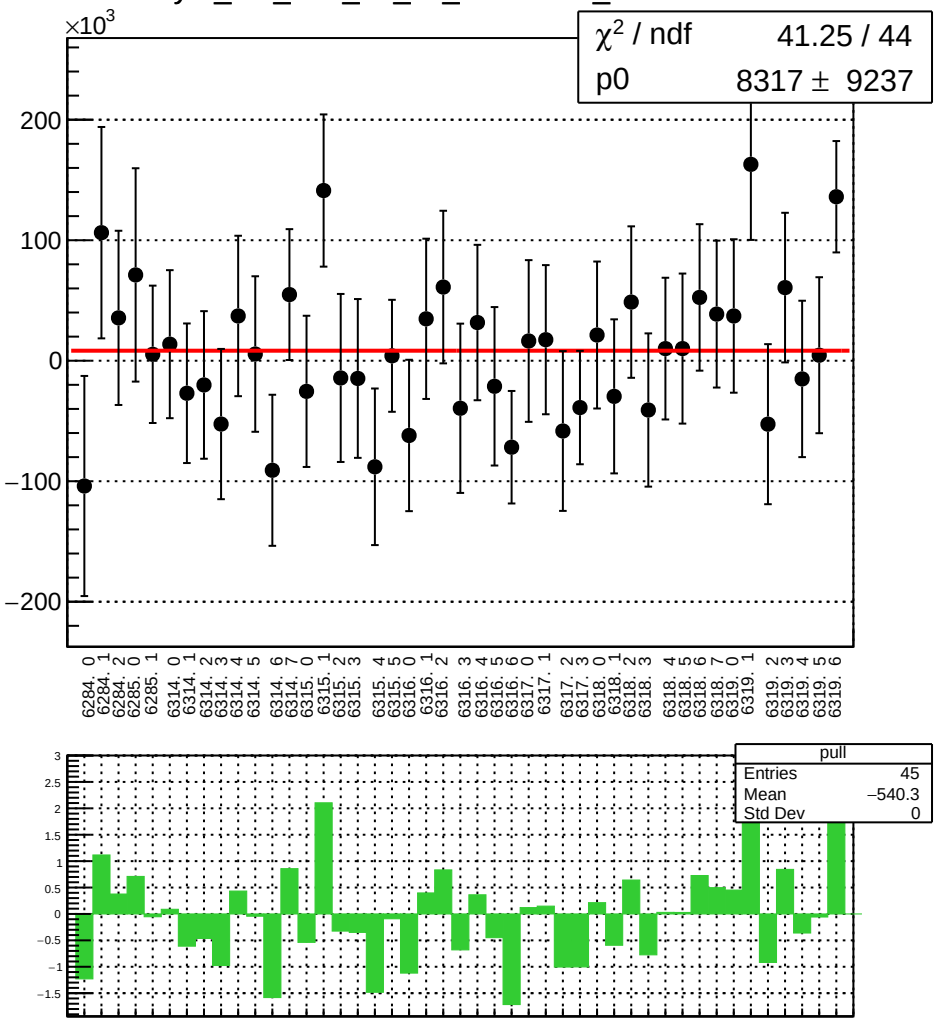

pull1D
Entries 45
Mean −0.001936
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

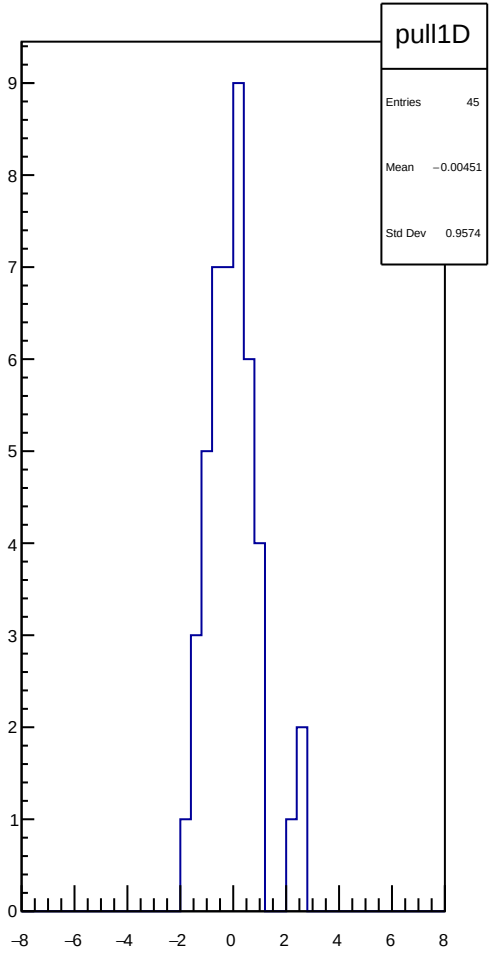

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9780 / 44
p0 6033 ± 6.368
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

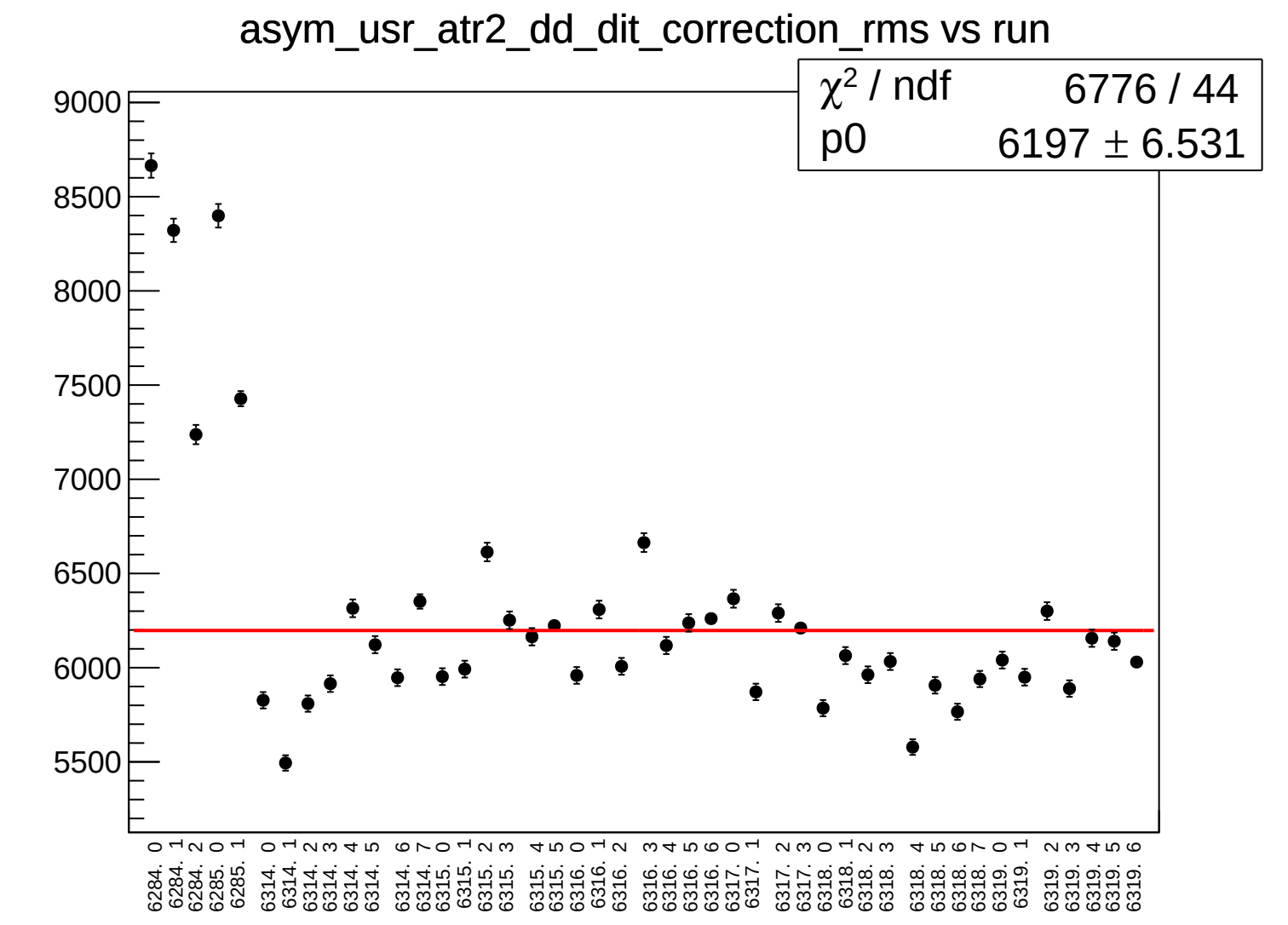

dit_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 53.89 / 44
p0 −2621 ± 2863
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 208.7
Std Dev 0
2
1
0
−1
−2
−3

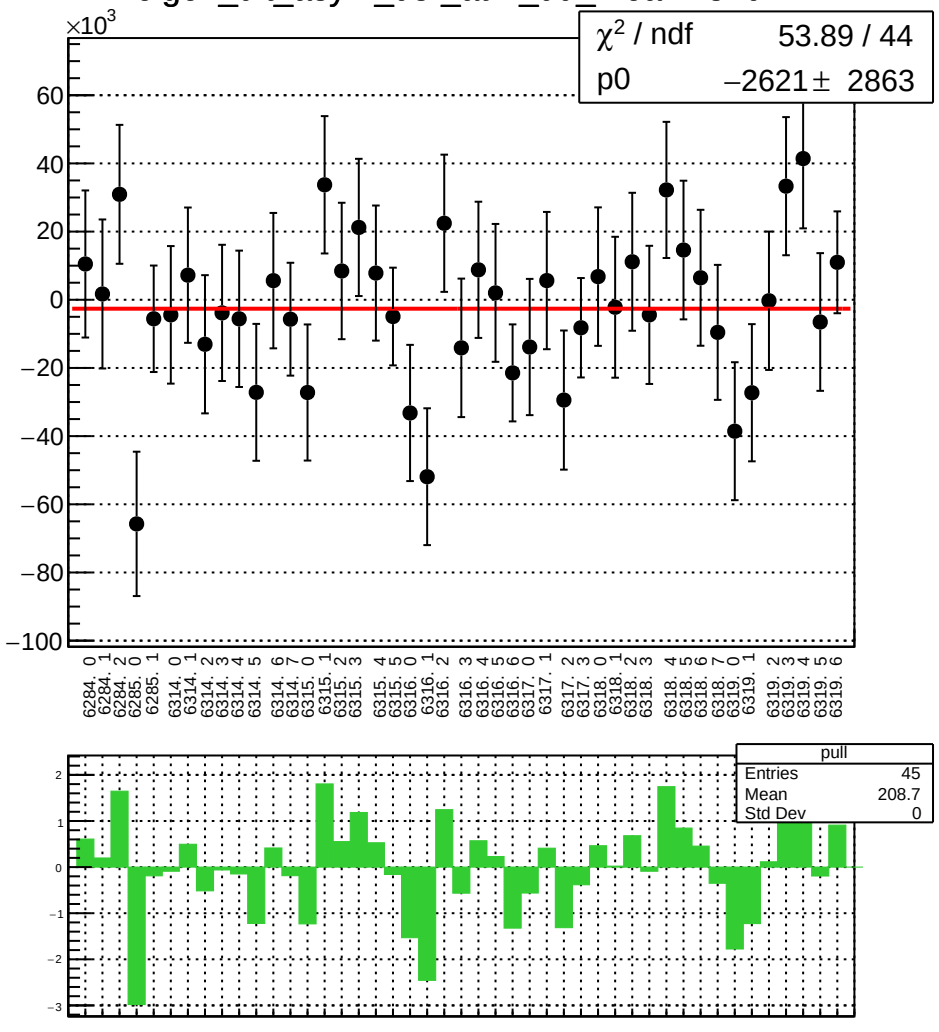

pull1D
Entries 45
Mean 0.011
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

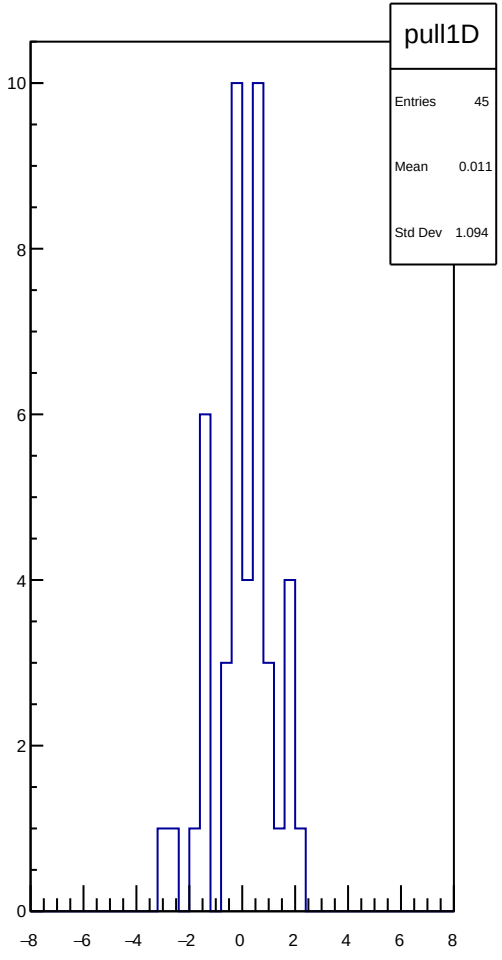

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 446 / 44
p0 1928 ± 2.024
2100
2050
2000
1950
1900
1850
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

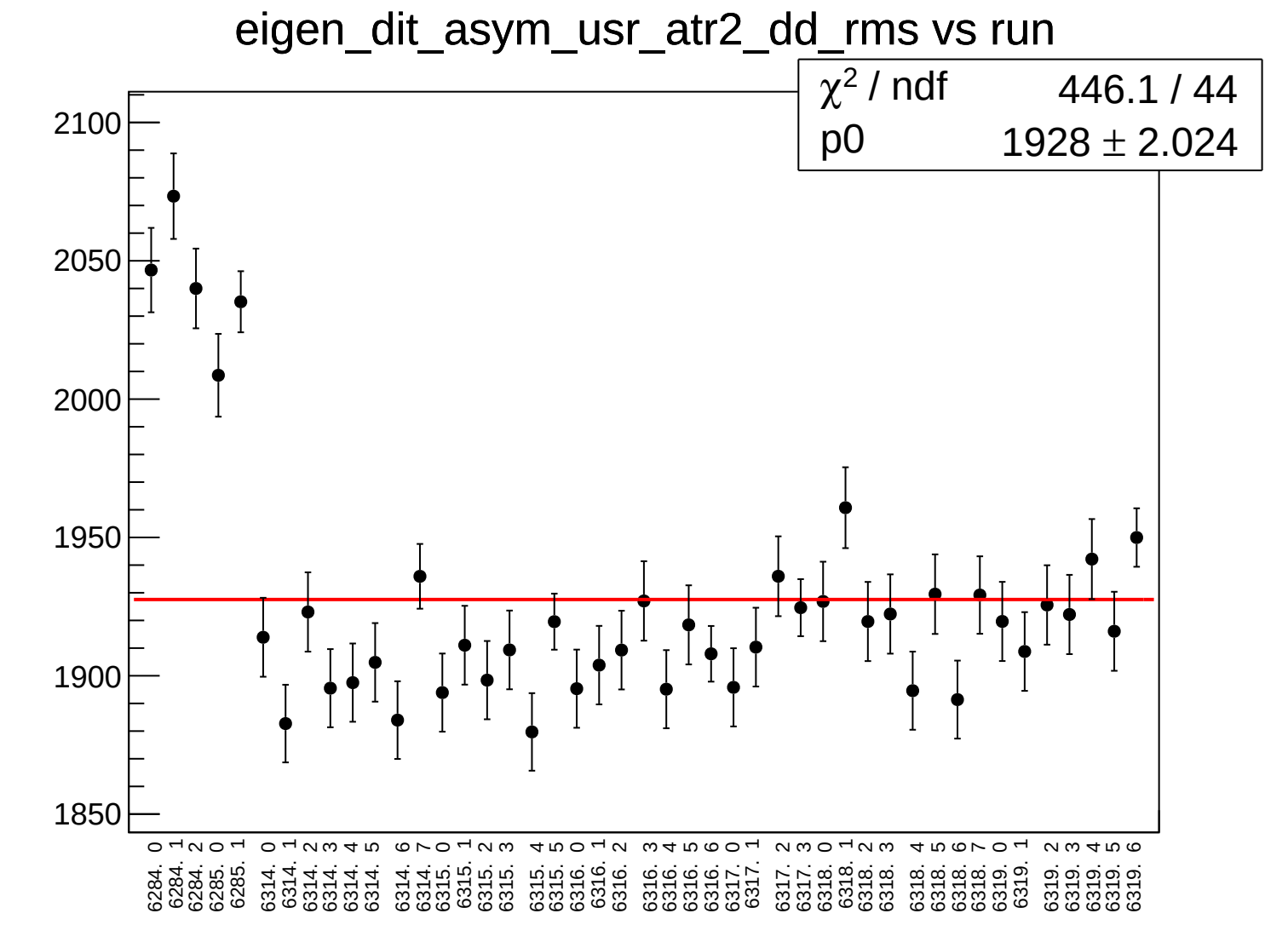

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.25 / 44
p0 8317 ± 9237
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −540.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.00451
Std Dev 0.9574
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 6776 / 44
p0 6197 ± 6.531
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 53.89 / 44
p0 −2621 ± 2863
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 208.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.011
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 446.1 / 44
p0 1928 ± 2.024
2100
2050
2000
1950
1900
1850
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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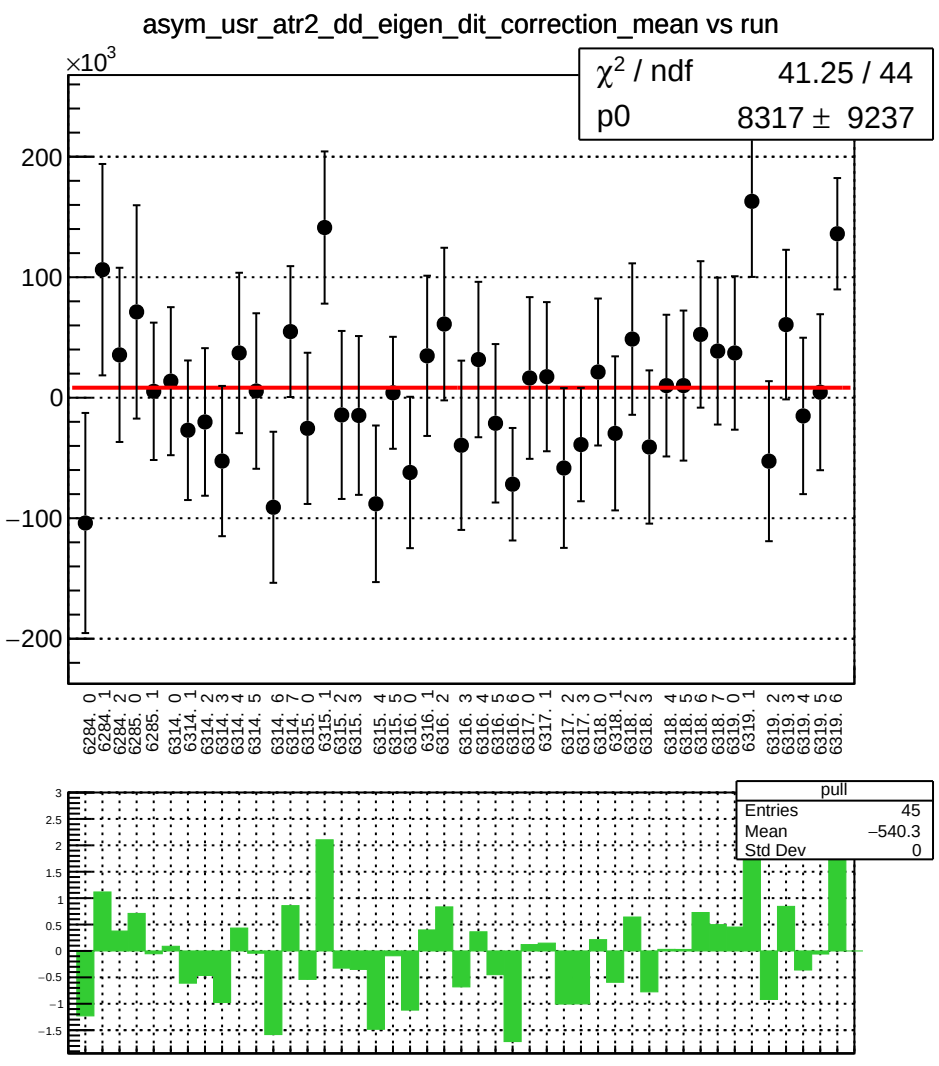
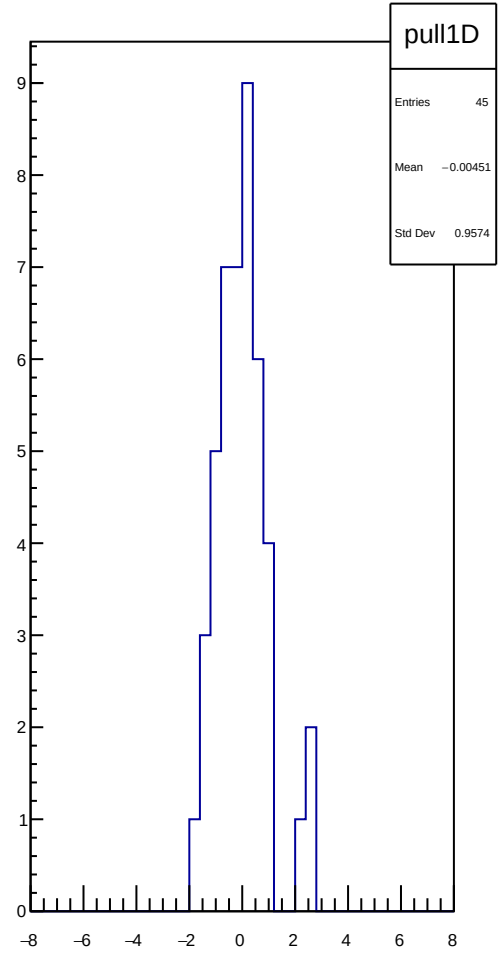
6319. 6


asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.25 / 44
p0 8317 ± 9237
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −540.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.00451
Std Dev 0.9574
9
8
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−4
−2
0
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6
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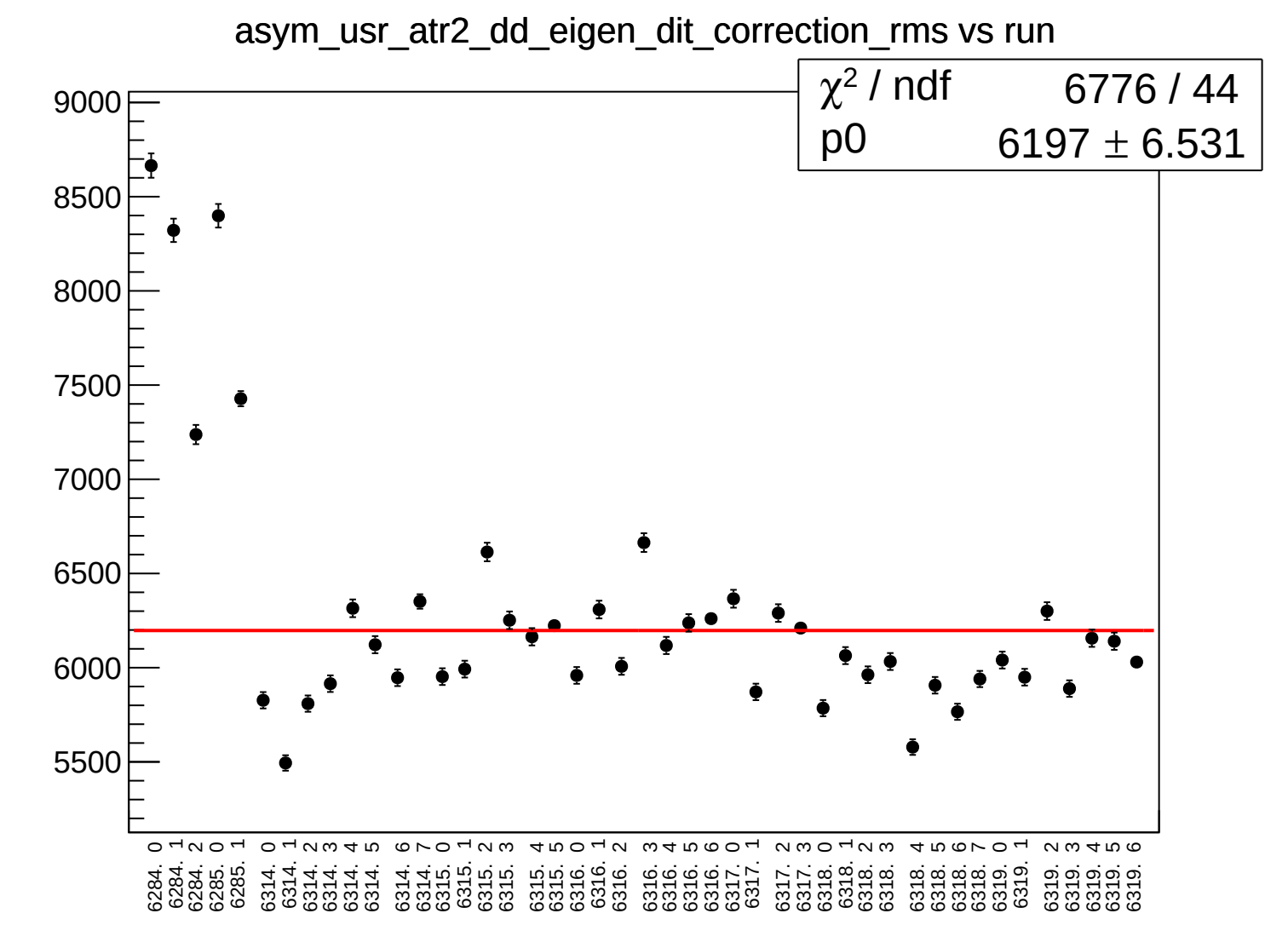
asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6776 / 44
p0 6197 ± 6.531
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
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6319. 2
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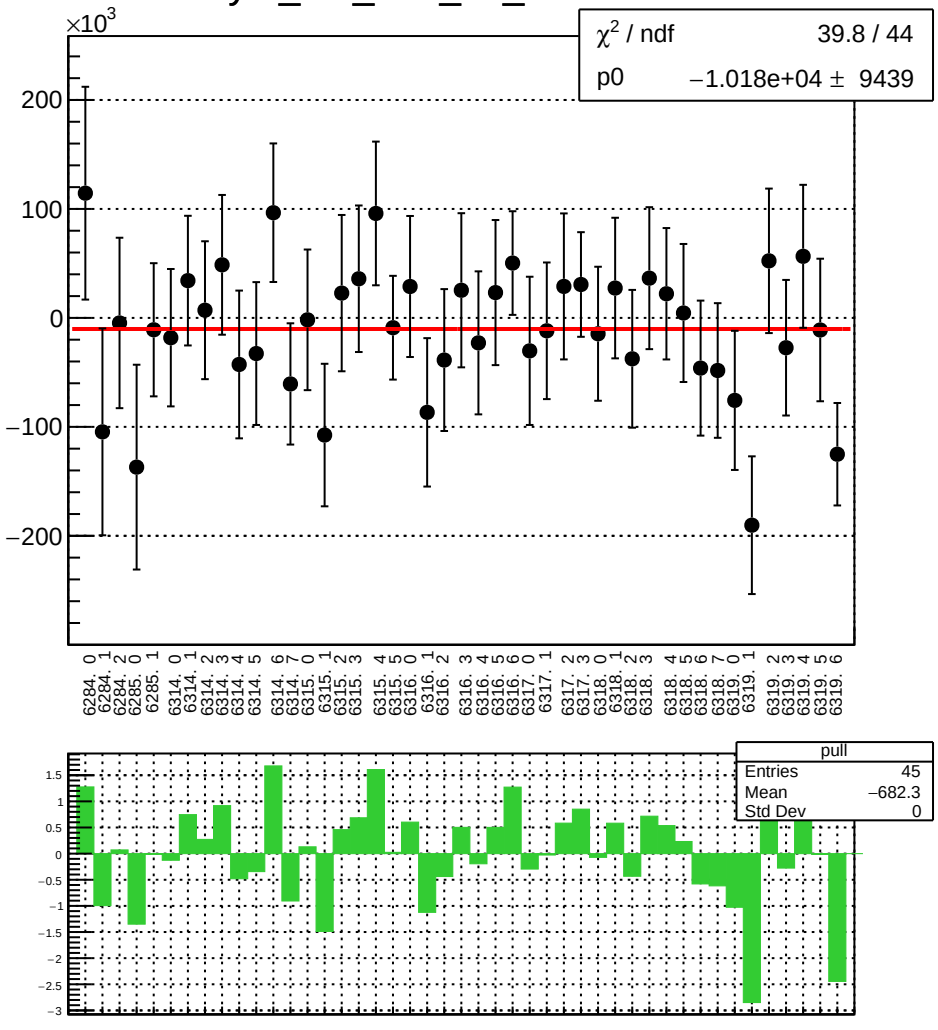
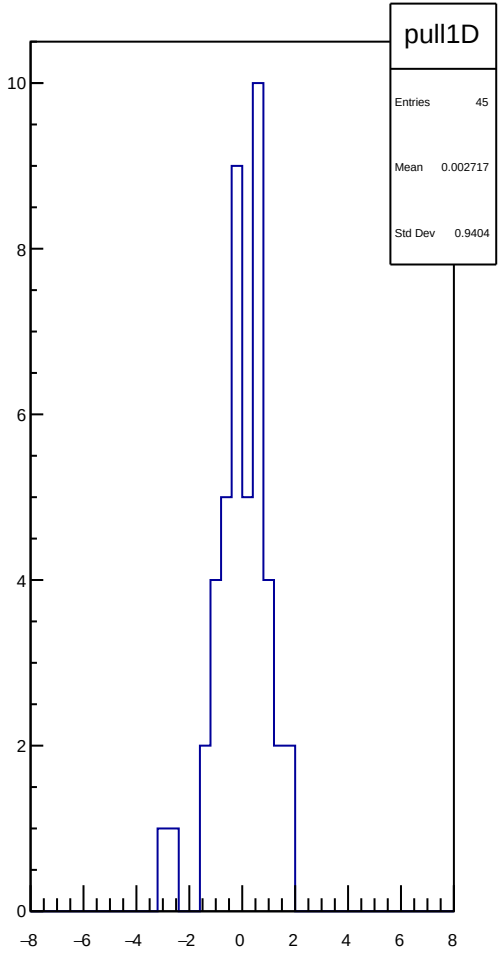
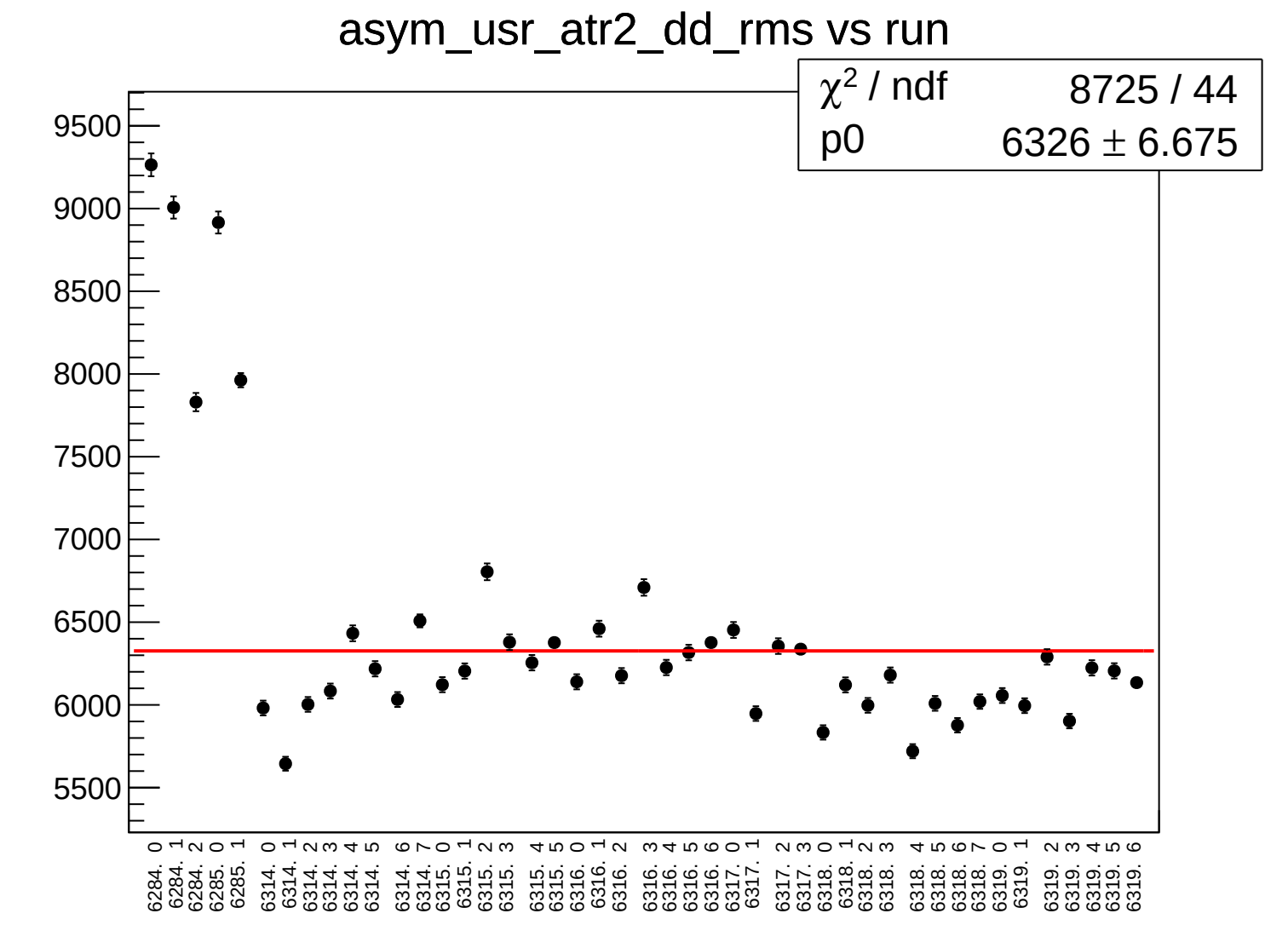
6319. 5
6319. 6


asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 39.8 / 44
p0 −1.018e+04 ± 9439
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −682.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean 0.002717
Std Dev 0.9404
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_rms vs run
χ² / ndf 8725 / 44
p0 6326 ± 6.675
9500
9000
8500
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
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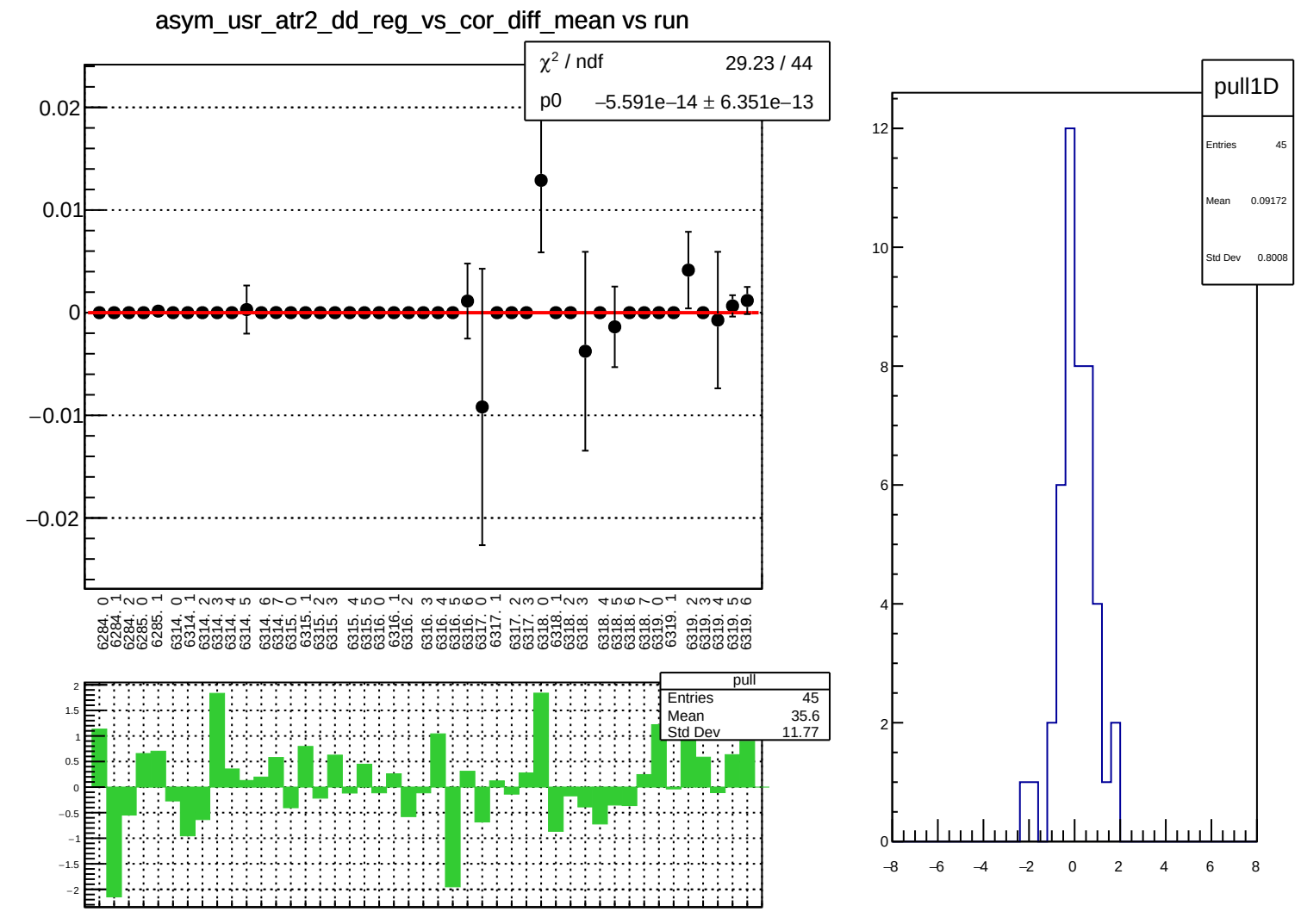
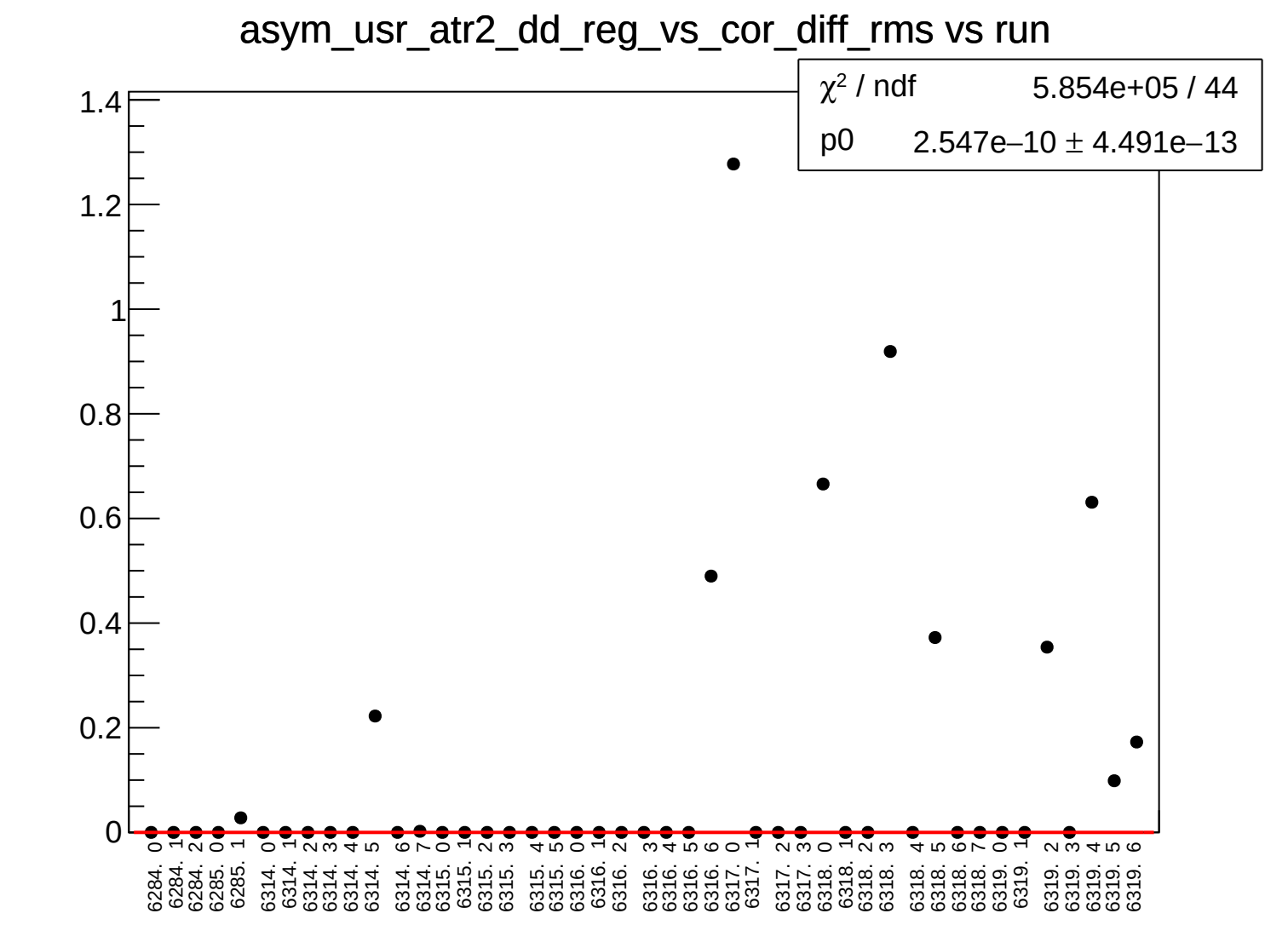
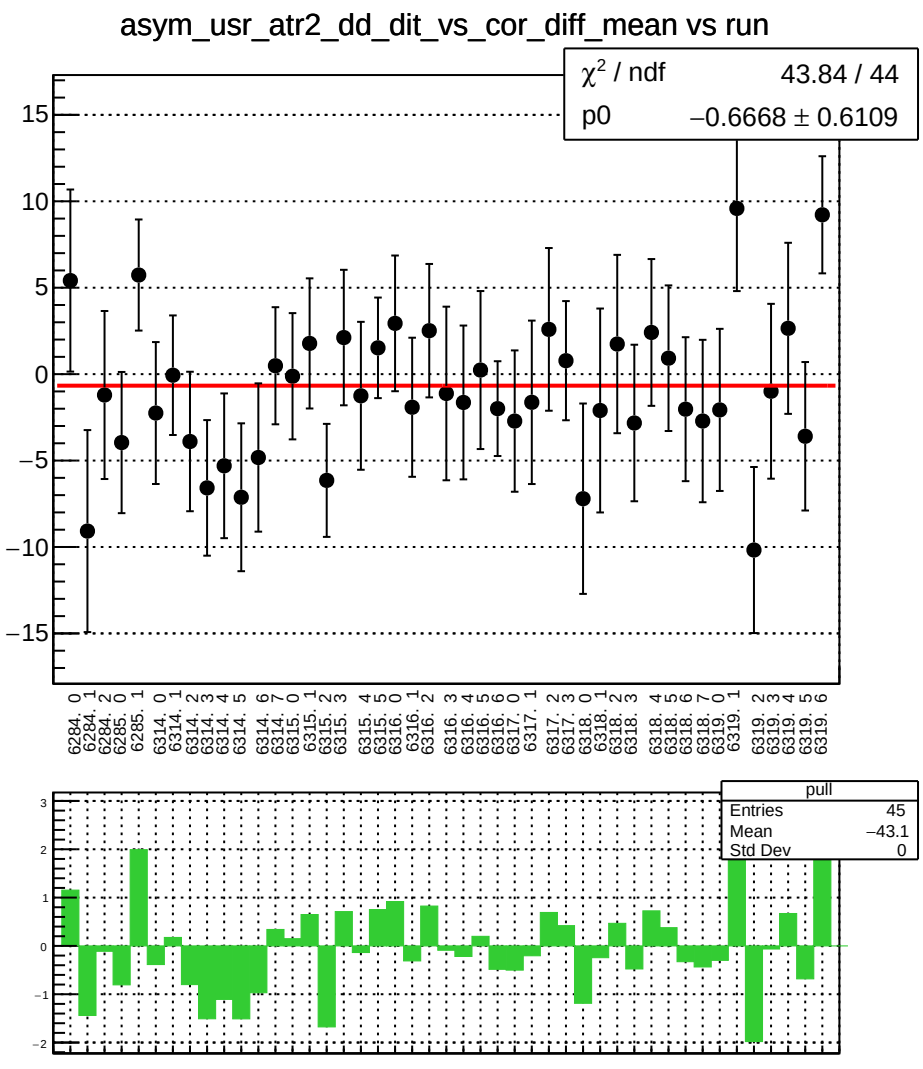
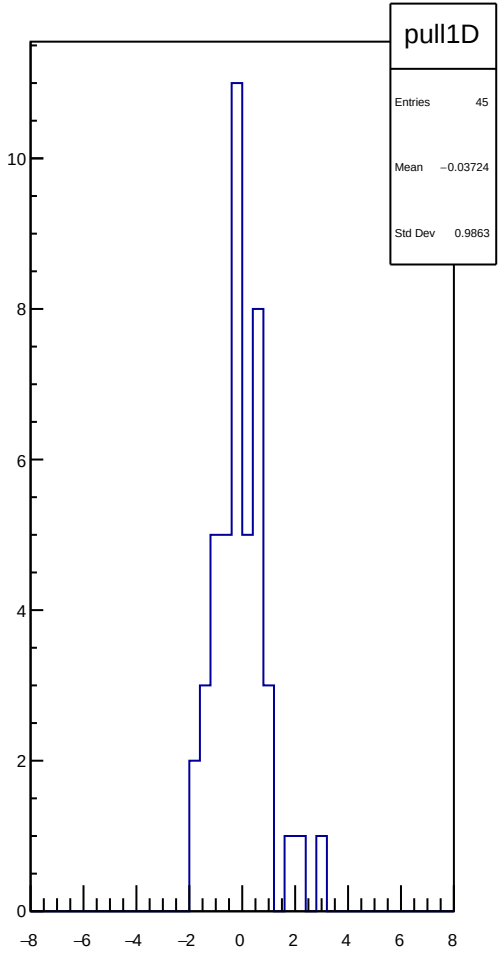
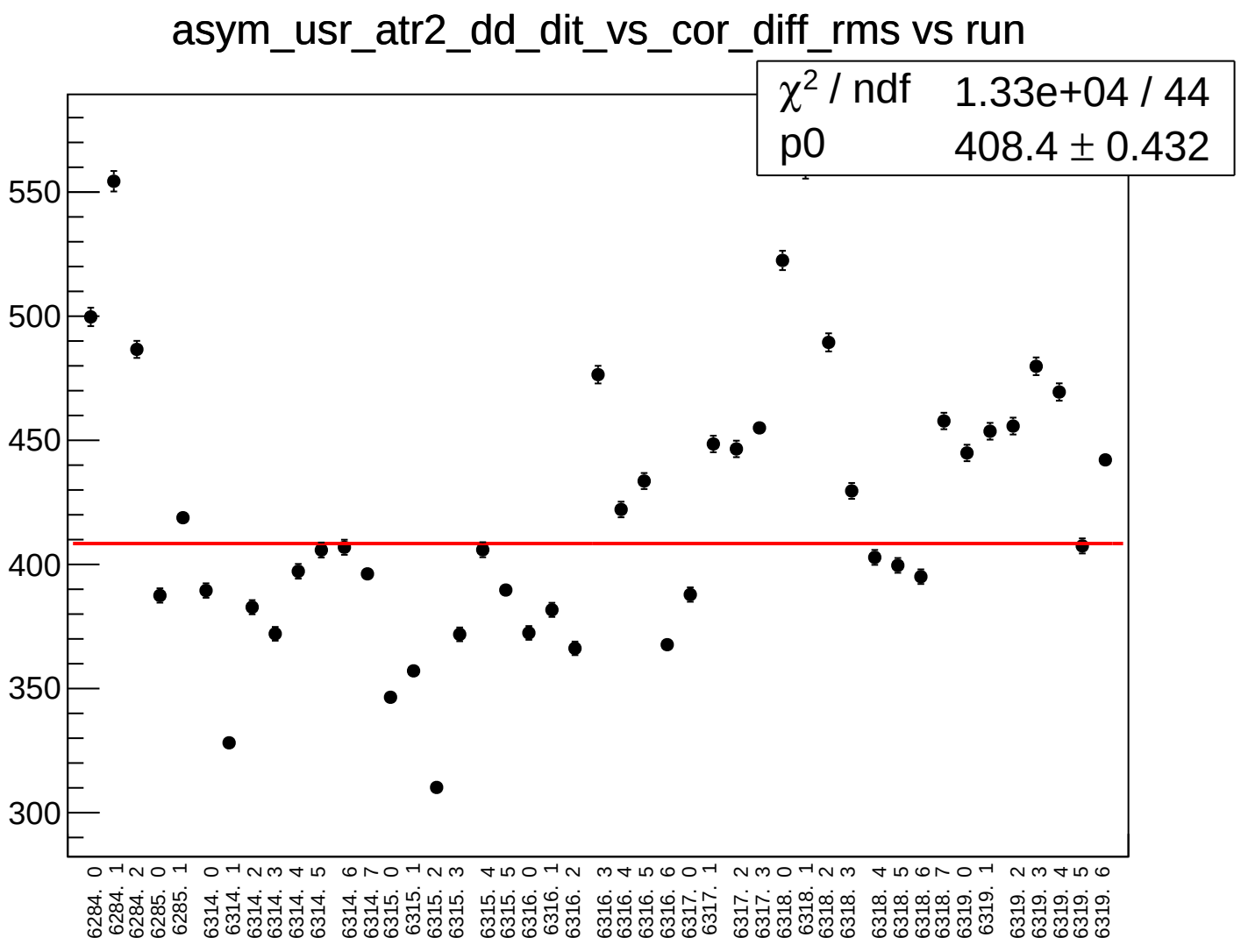
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

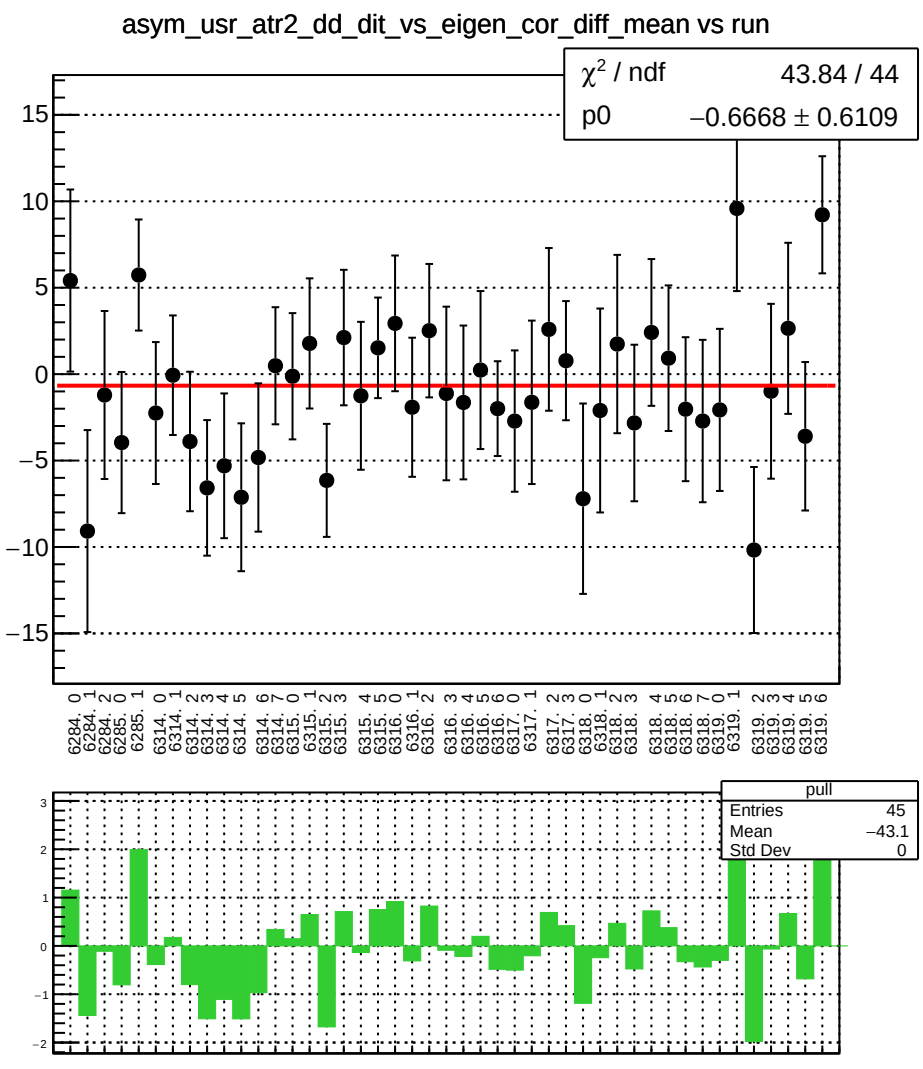

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.23 / 44
p0 −5.591e−14 ± 6.351e−13
0.02
0.01
0
−0.01
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 35.6
Std Dev 11.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.09172
Std Dev 0.8008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

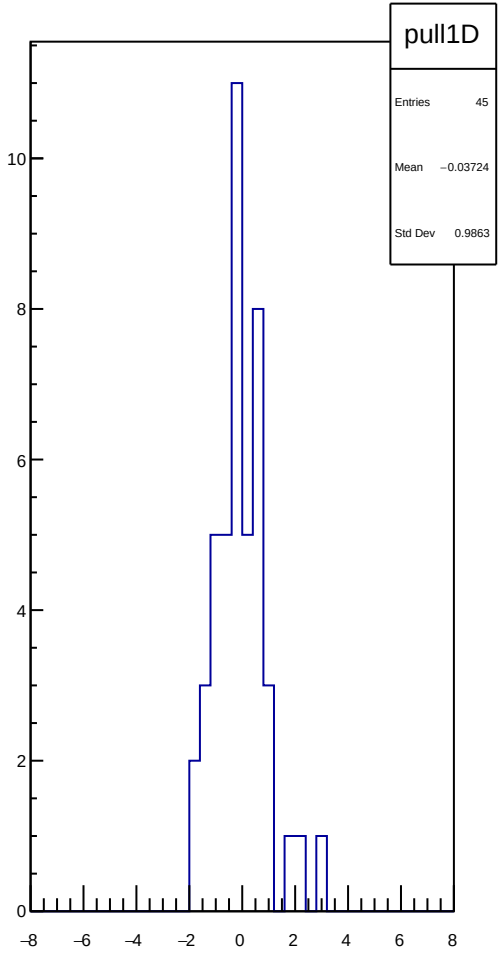

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.854e+05 / 44
p0 2.547e−10 ± 4.491e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

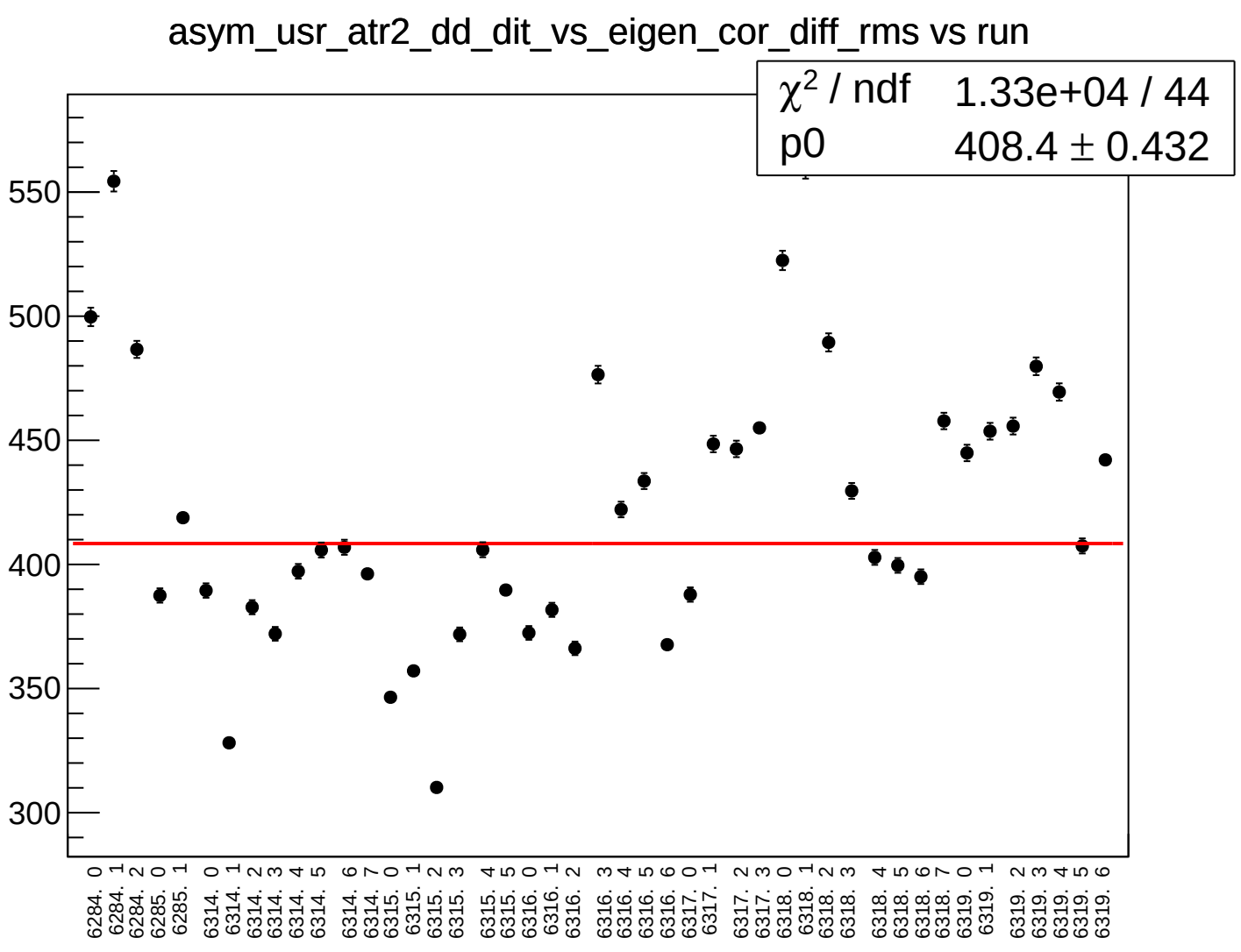

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.84 / 44
p0 −0.6668 ± 0.6109
pull
Entries 45
Mean −43.1
Std Dev 0

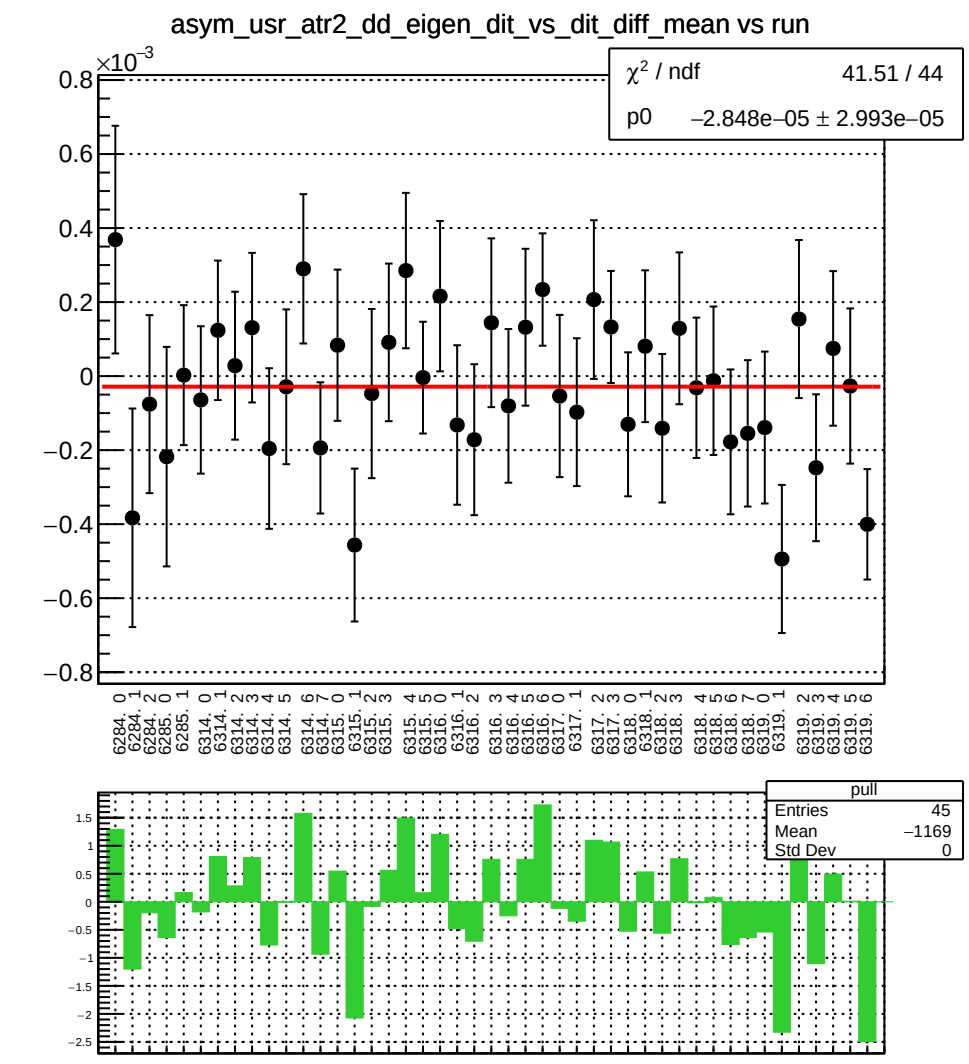

pull1D
Entries 45
Mean −0.03724
Std Dev 0.9863

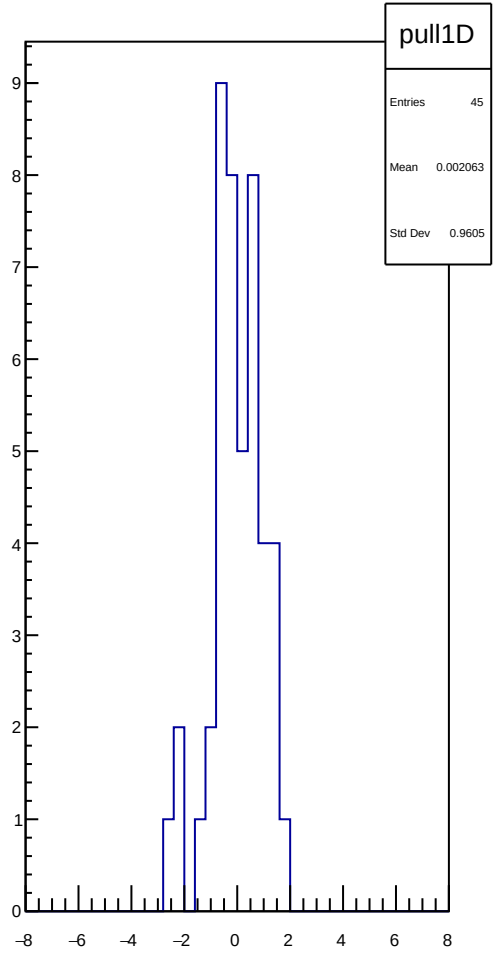

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.33e+04 / 44
p0 408.4 ± 0.432
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

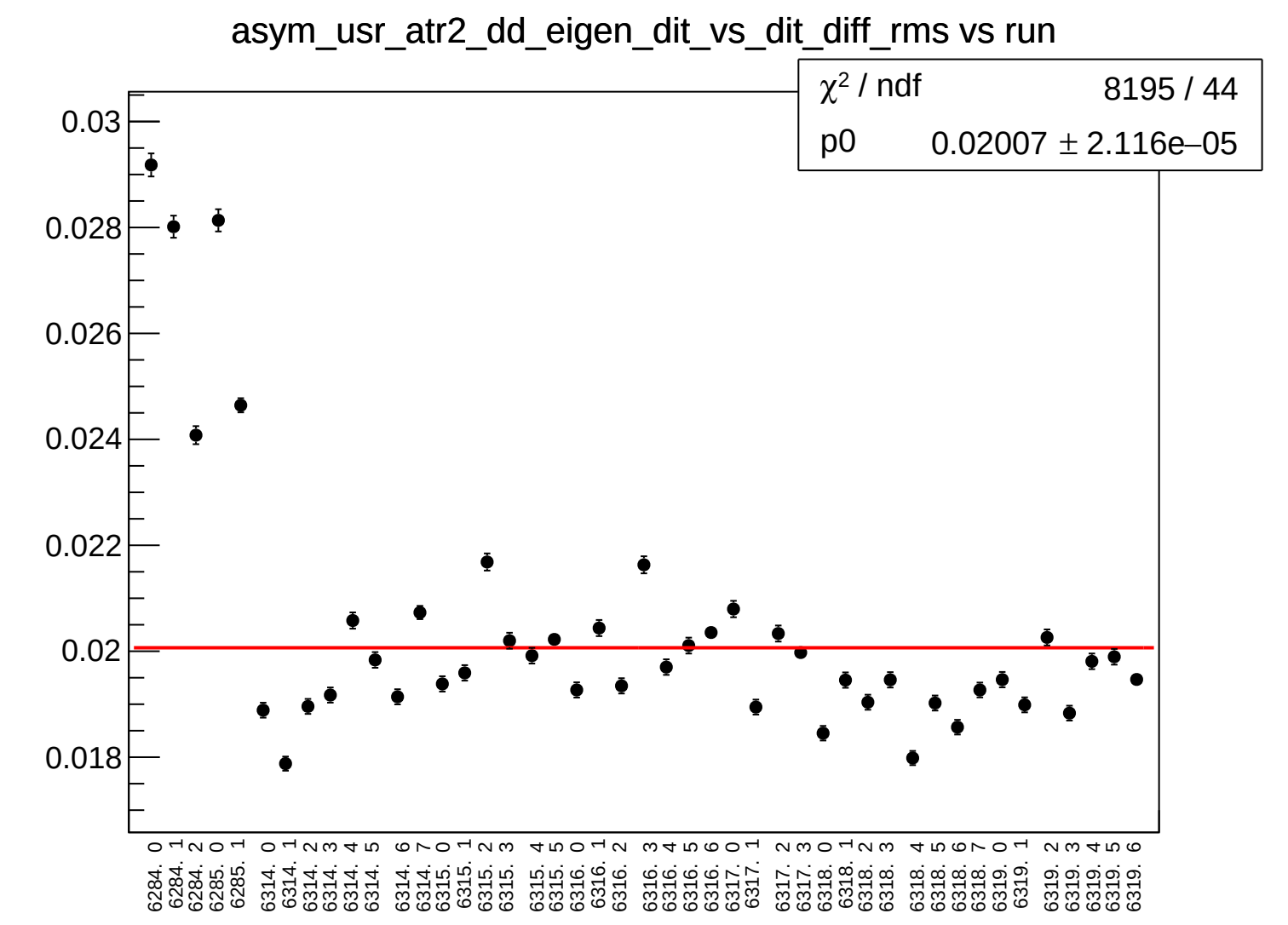

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.84 / 44
p0 −0.6668 ± 0.6109
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −43.1
Std Dev 0
3
2
1
0
−1
−2

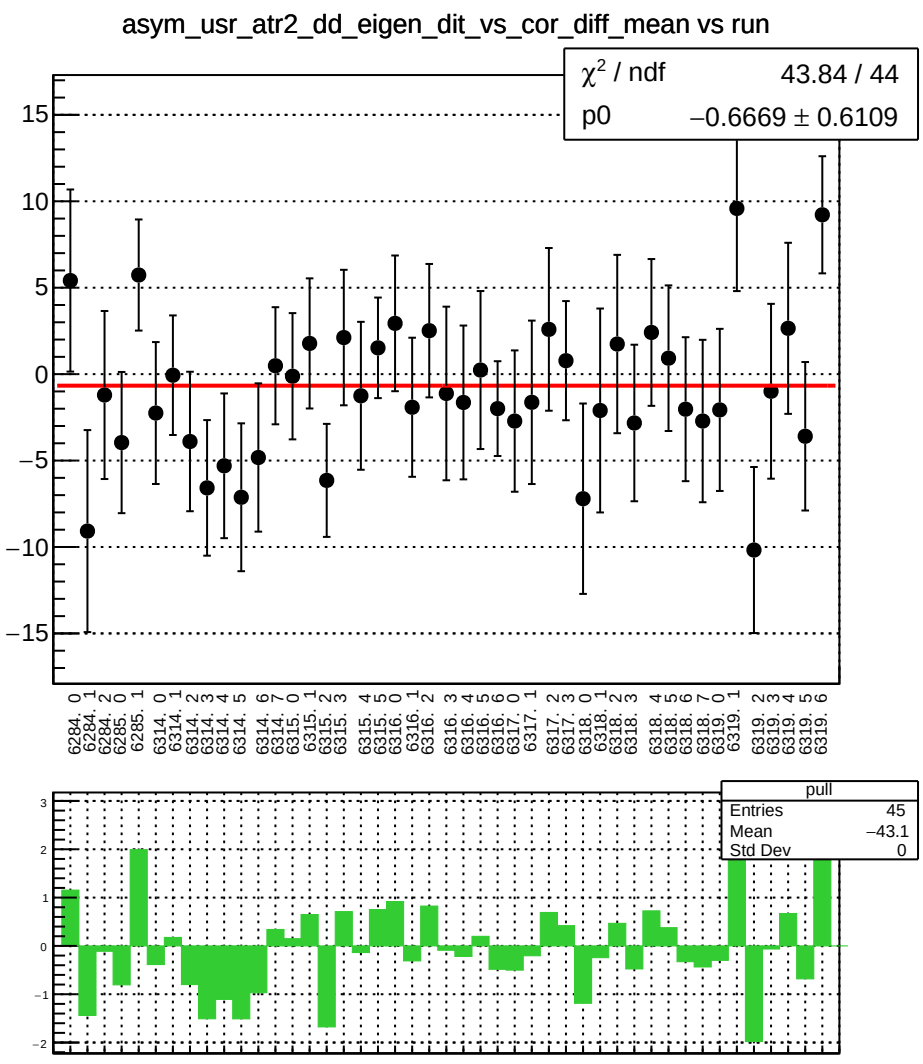

pull1D
Entries 45
Mean −0.03724
Std Dev 0.9863
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

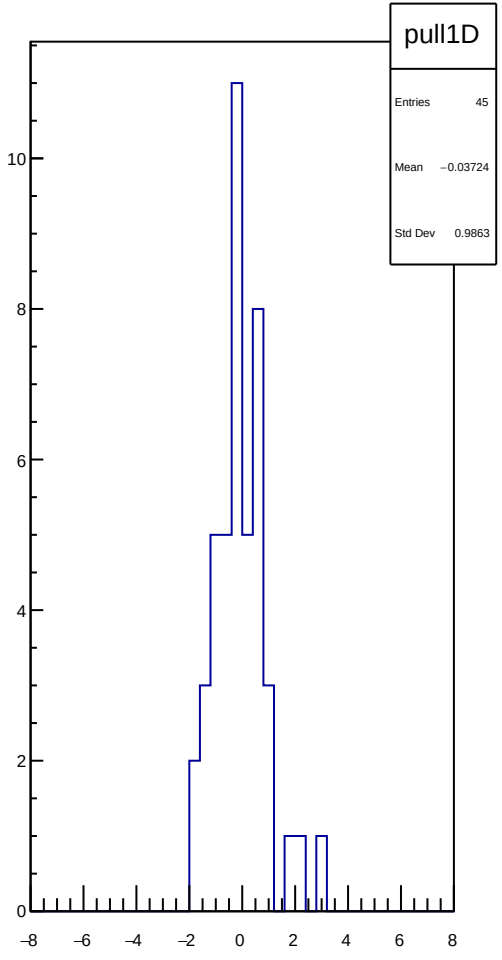

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.33e+04 / 44
p0 408.4 ± 0.432
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

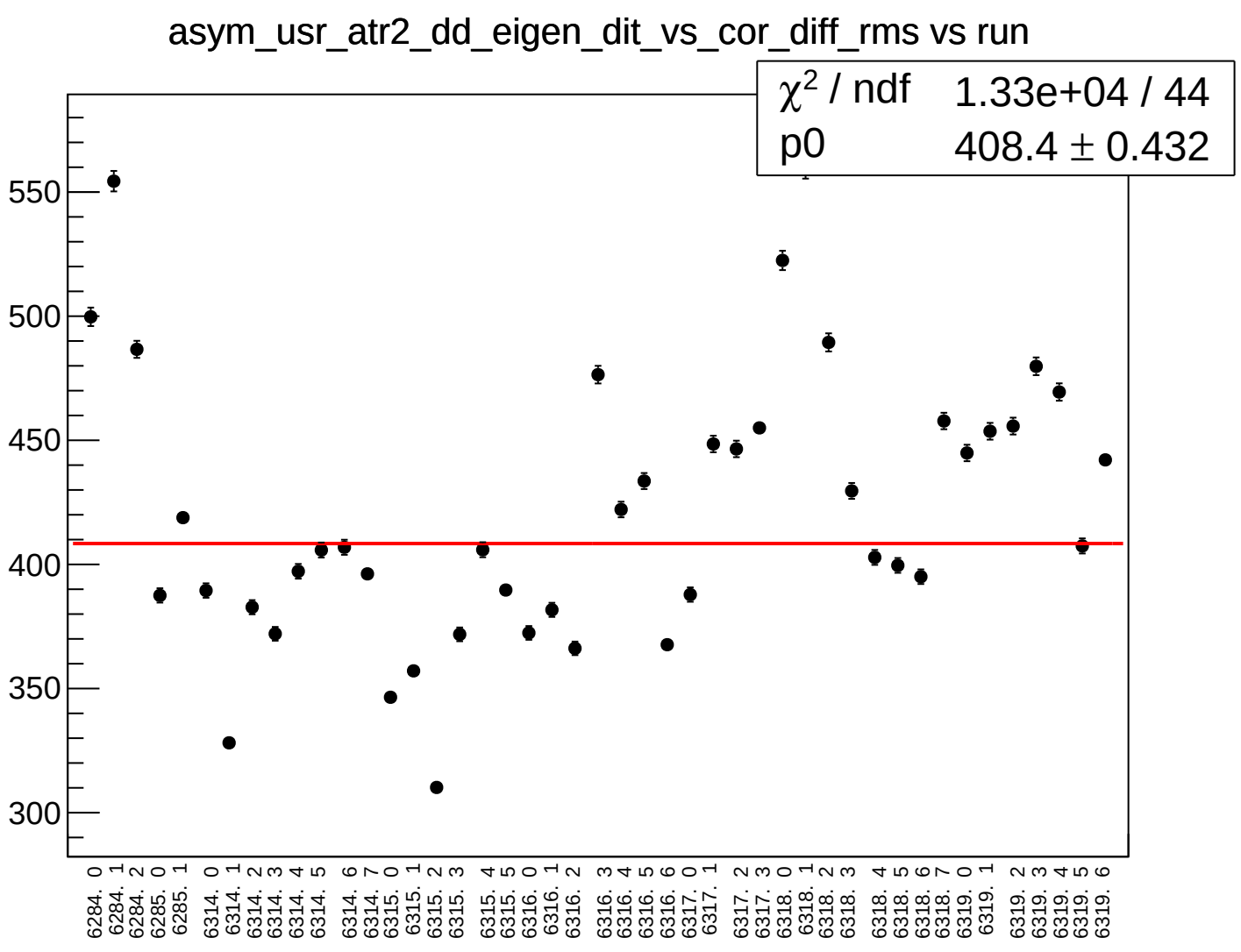

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.51 / 44
p0 −2.848e−05 ± 2.993e−05
pull
Entries 45
Mean −1169
Std Dev 0

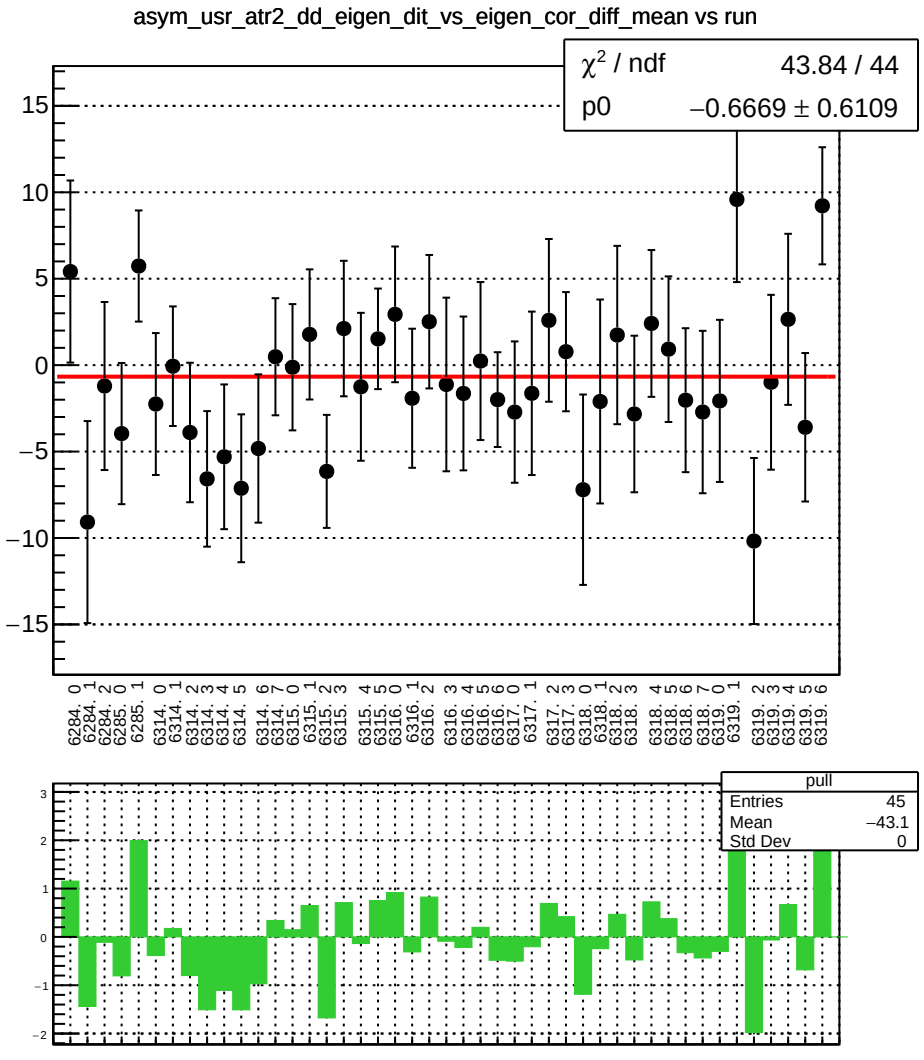

pull1D
Entries 45
Mean 0.002063
Std Dev 0.9605

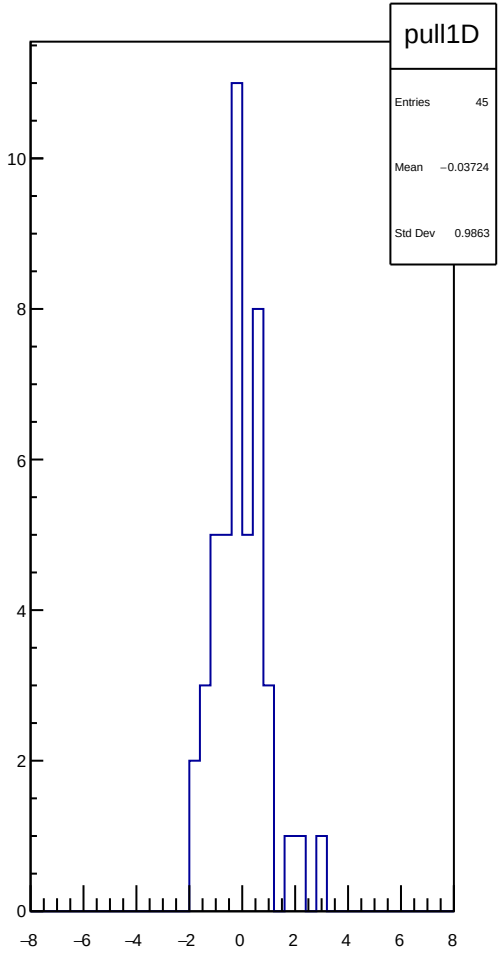

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8195 / 44
p0 0.02007 ± 2.116e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

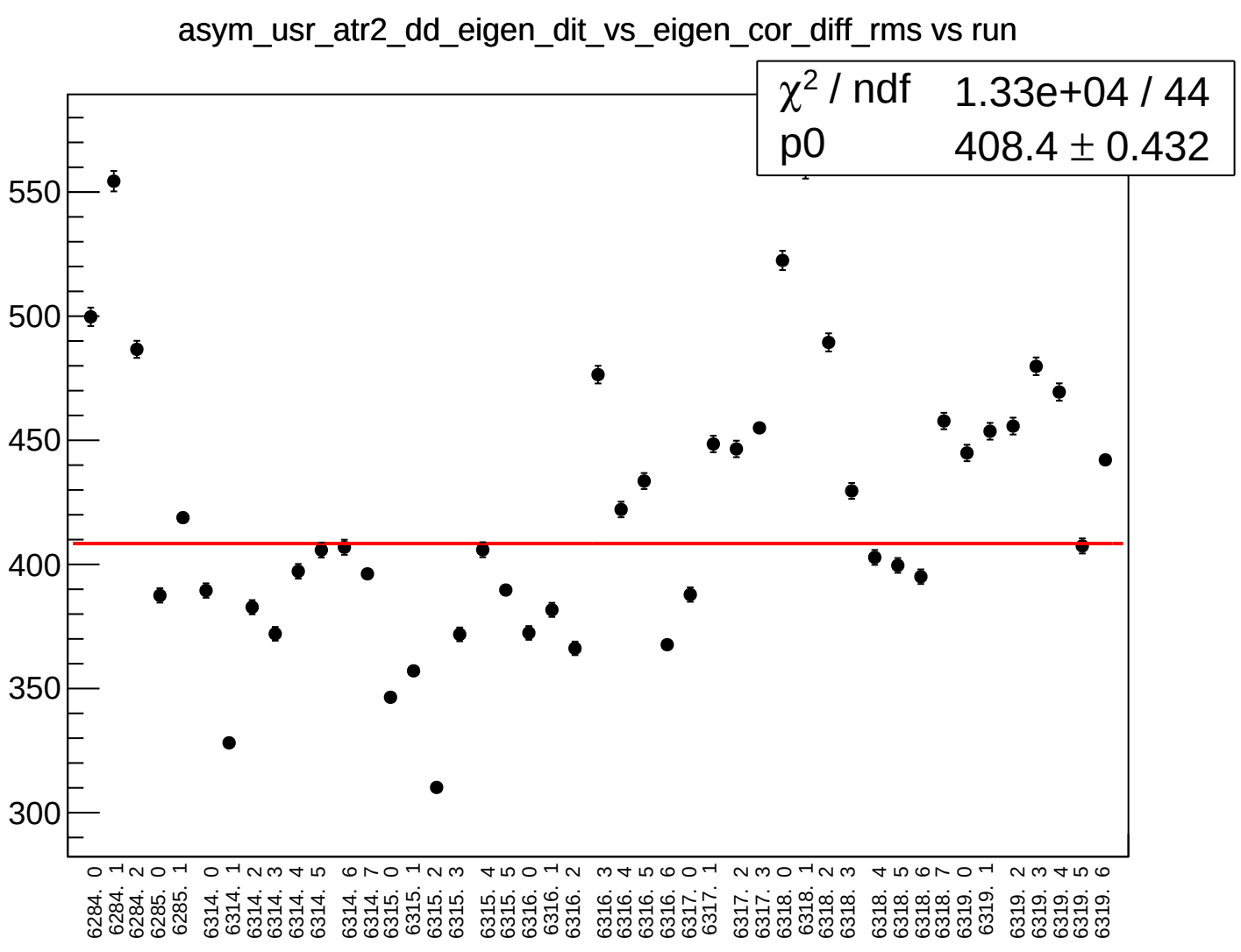

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.84 / 44
p0 −0.6669 ± 0.6109
pull
Entries 45
Mean −43.1
Std Dev 0

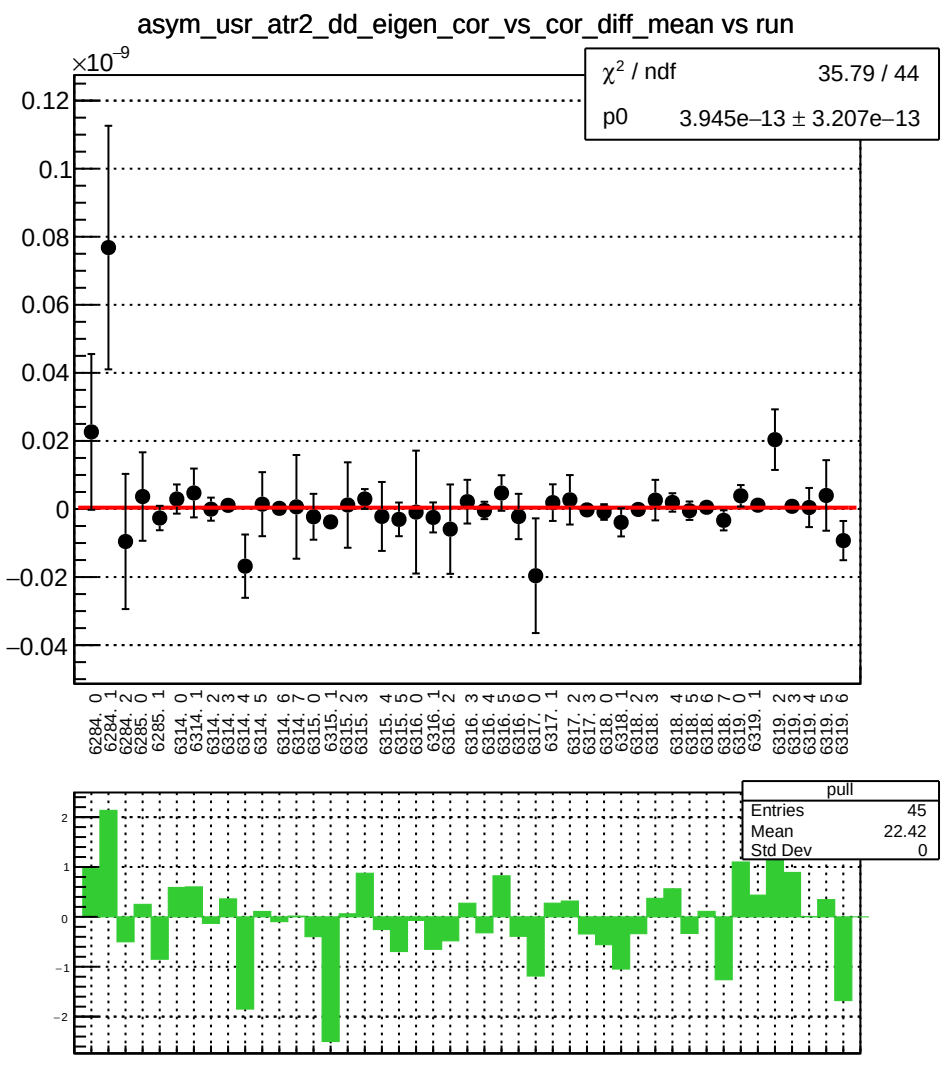

pull1D
Entries 45
Mean −0.03724
Std Dev 0.9863

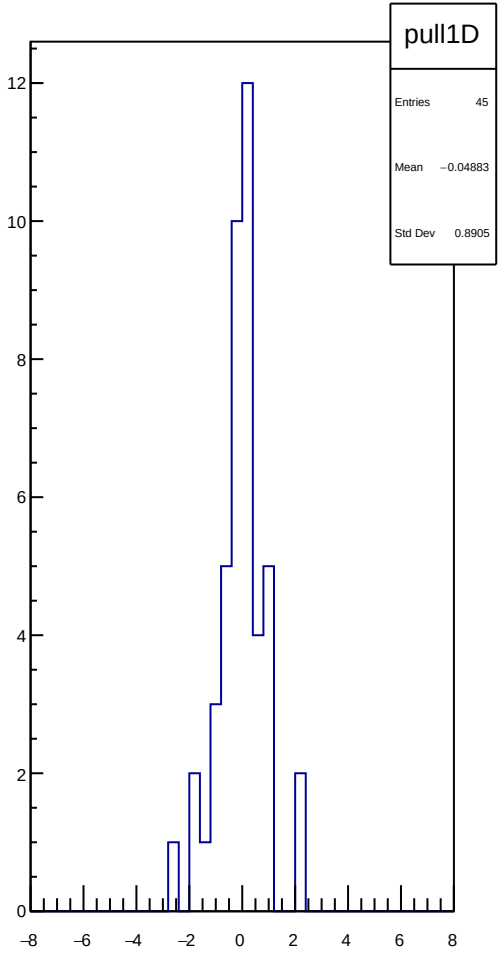

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.33e+04 / 44
p0 408.4 ± 0.432
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

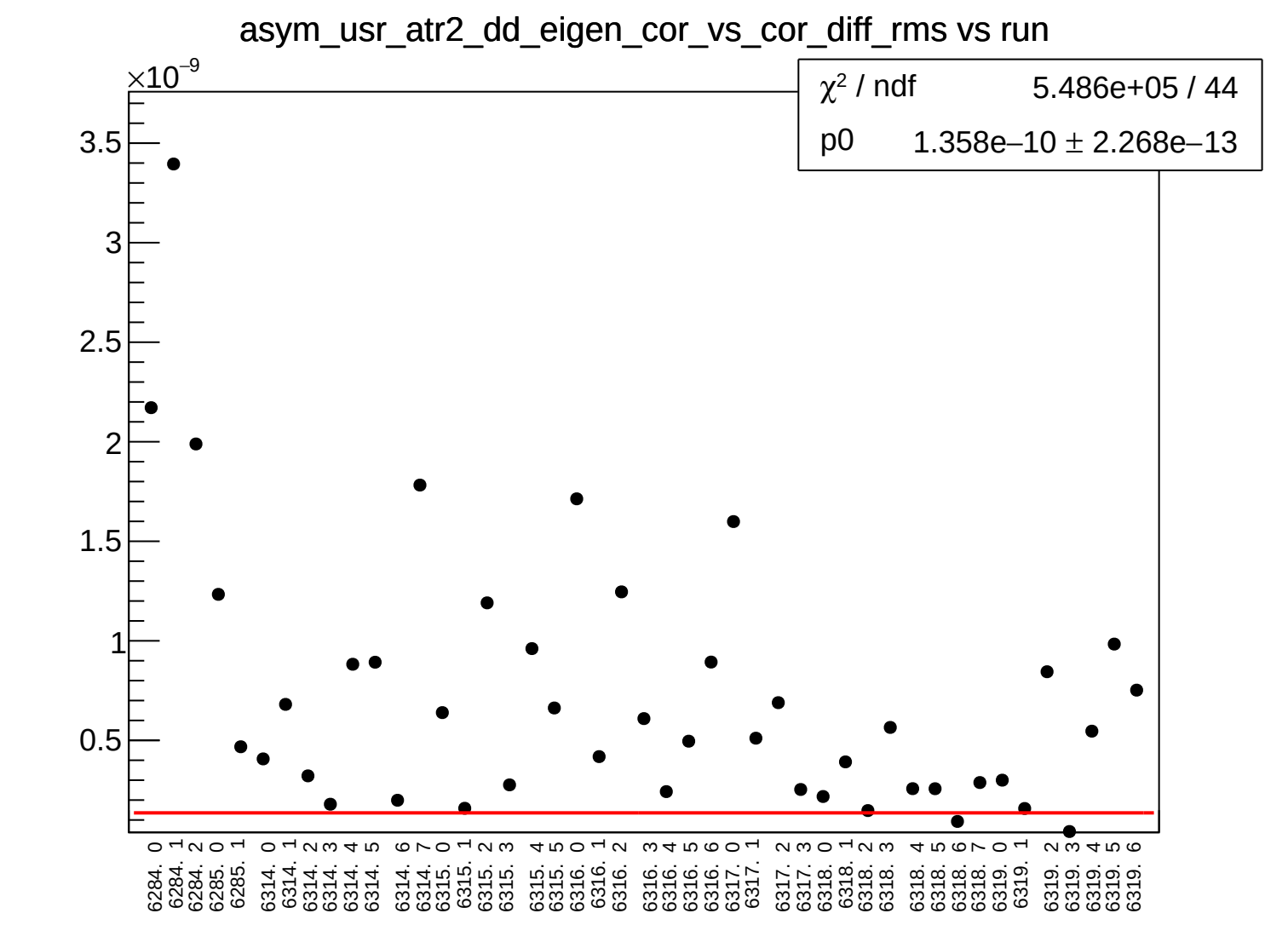

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.84 / 44
p0 −0.6669 ± 0.6109
pull
Entries 45
Mean −43.1
Std Dev 0

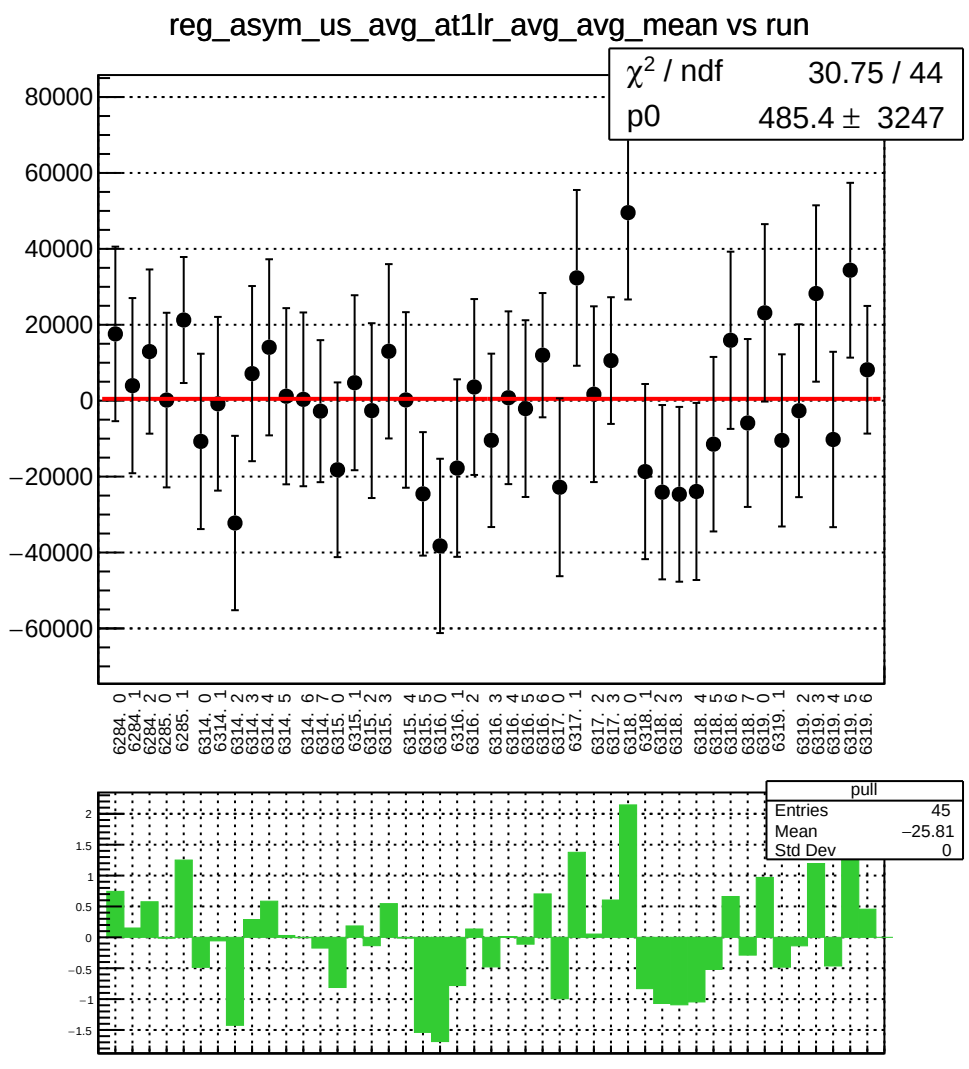

pull1D
Entries 45
Mean −0.03724
Std Dev 0.9863

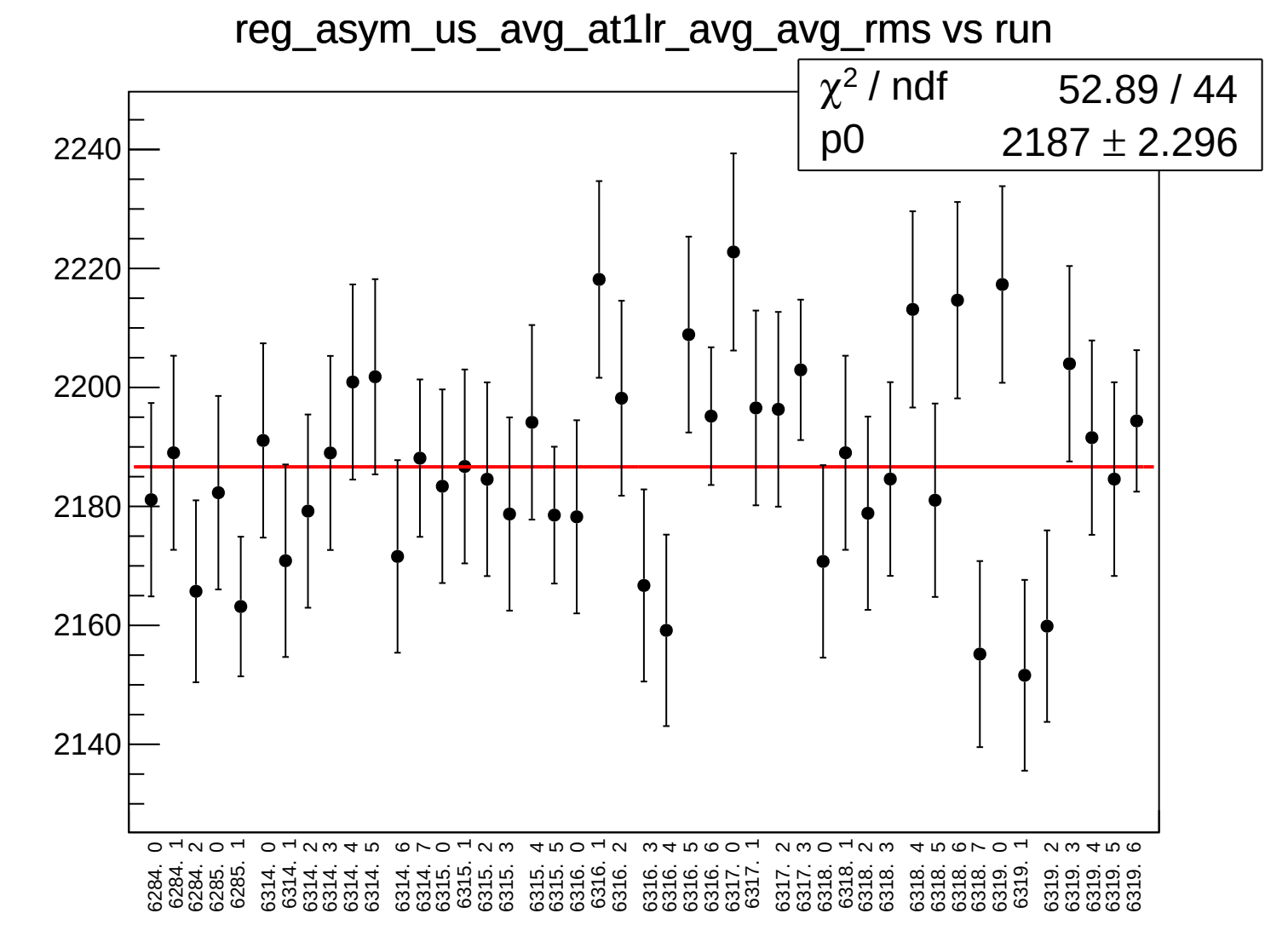

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.33e+04 / 44
p0 408.4 ± 0.432
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 35.79 / 44
p0 3.945e−13 ± 3.207e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.42
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04883
Std Dev 0.8905
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.486e+05 / 44
p0 1.358e−10 ± 2.268e−13
3.5
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 30.75 / 44
p0 485.4 ± 3247
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0112
Std Dev 0.8266
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 52.89 / 44
p0 2187 ± 2.296
2240
2220
2200
2180
2160
2140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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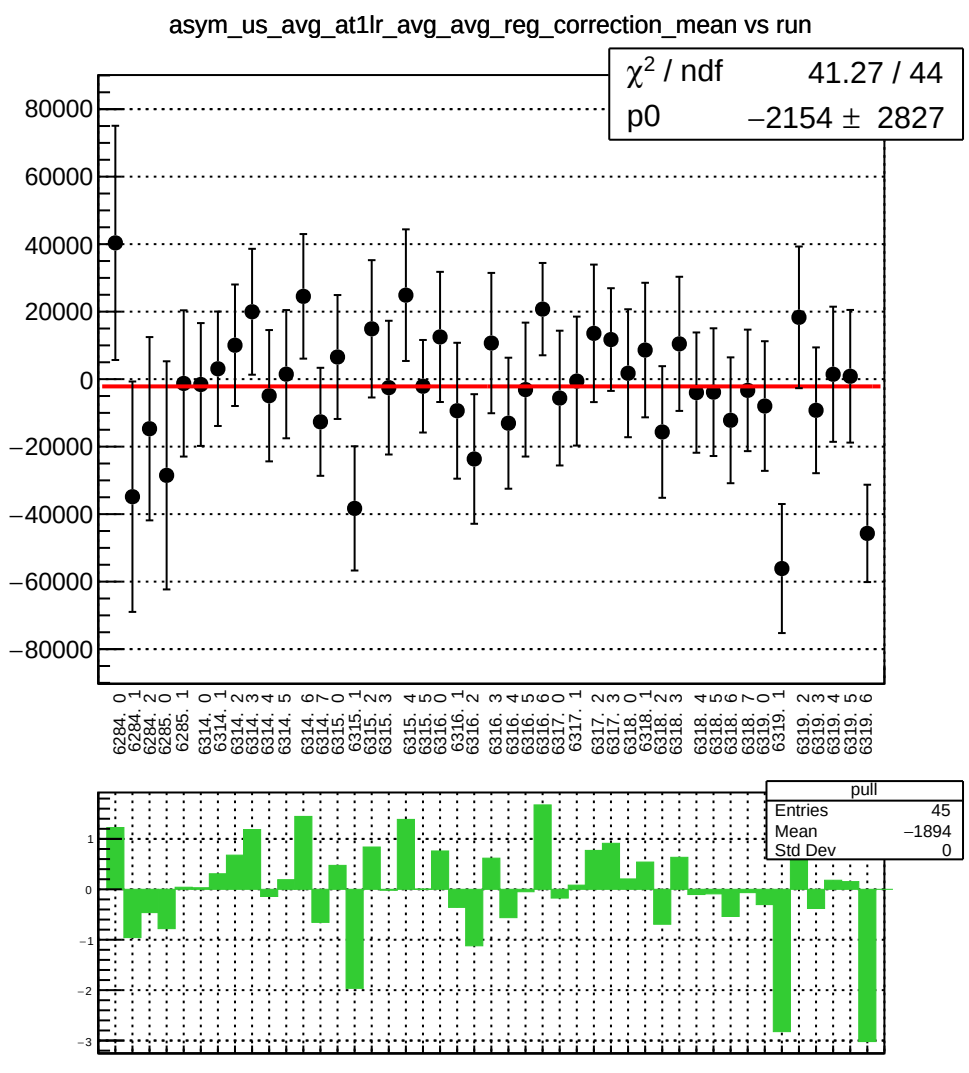
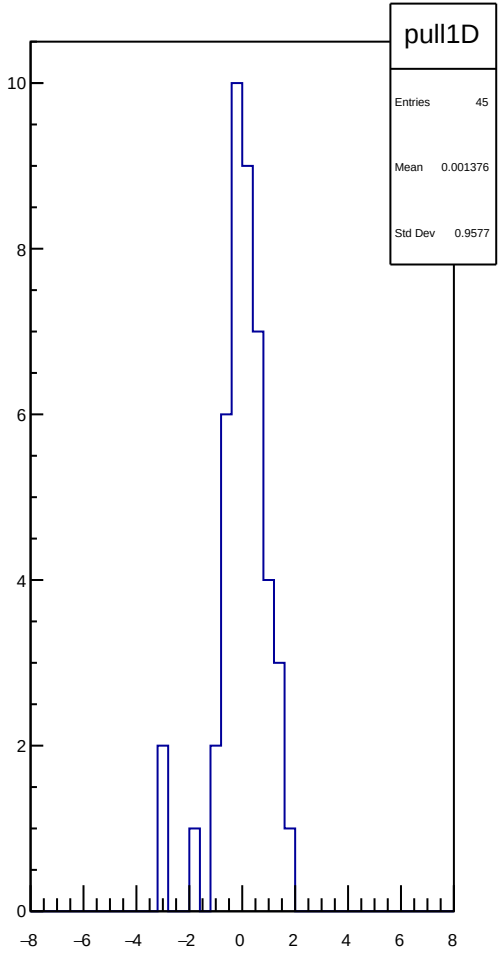
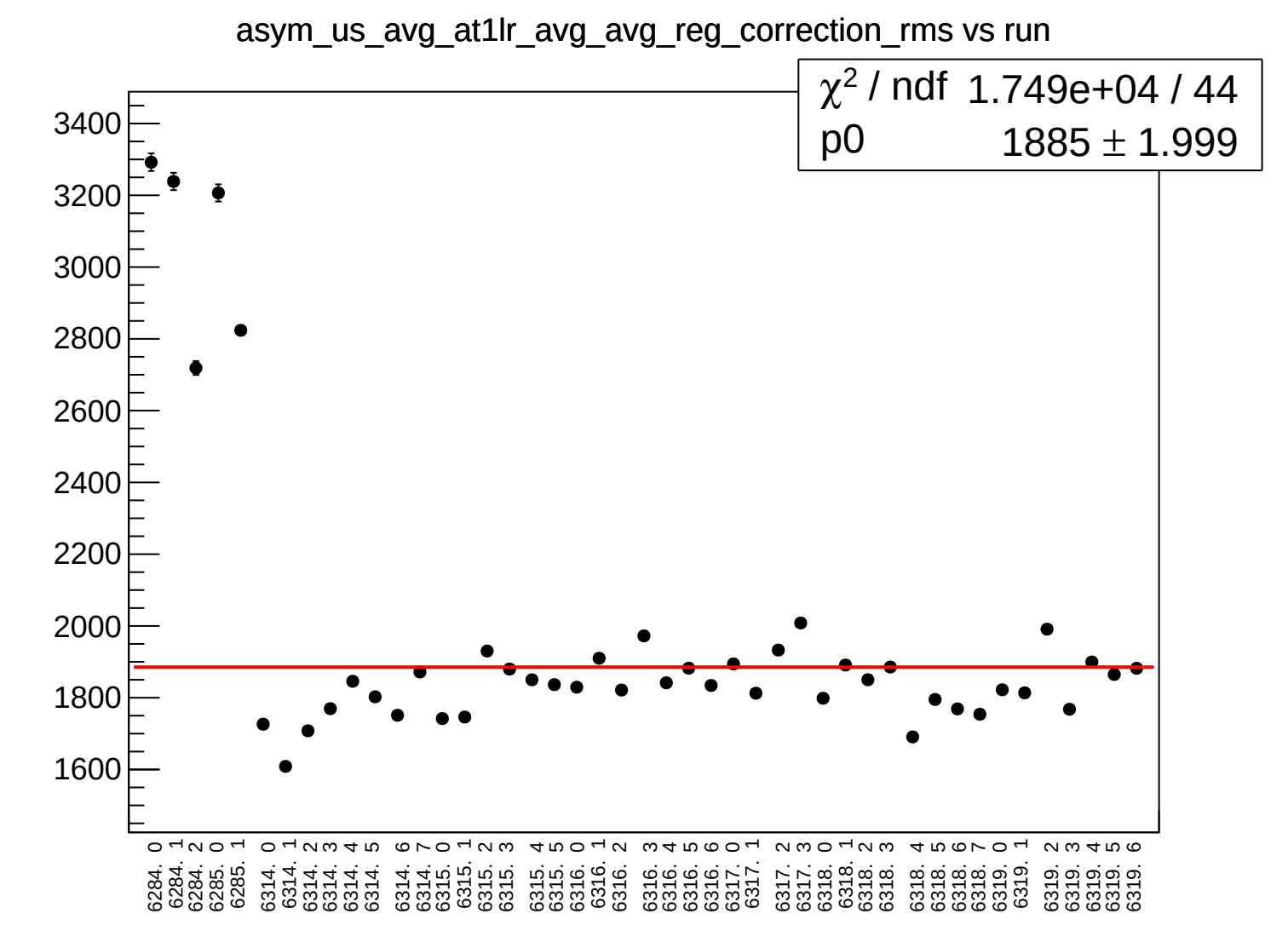
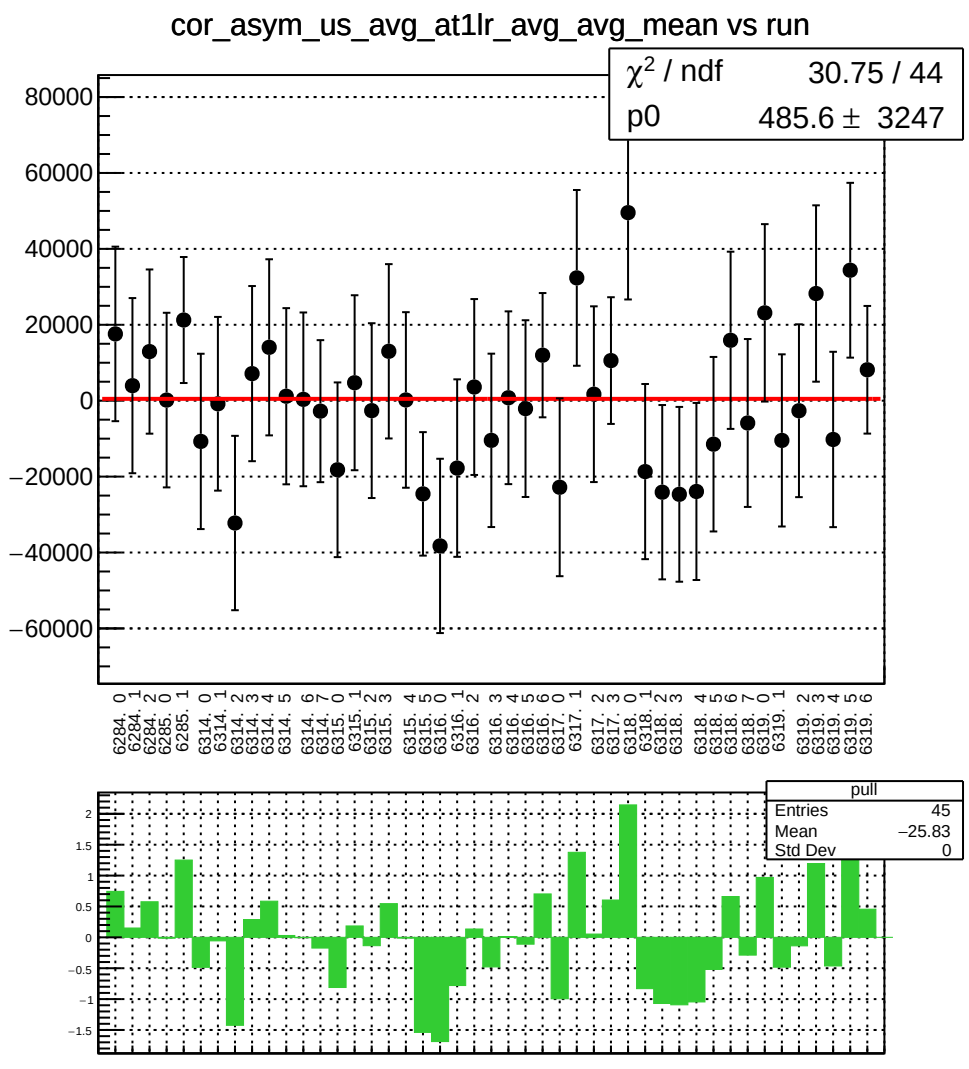
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 41.27 / 44
p0 −2154 ± 2827
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1894
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.001376
Std Dev 0.9577
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.749e+04 / 44
p0 1885 ± 1.999
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 30.75 / 44
p0 485.6 ± 3247
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6316. 2
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6316. 5
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6318. 0
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0112
Std Dev 0.8266
9
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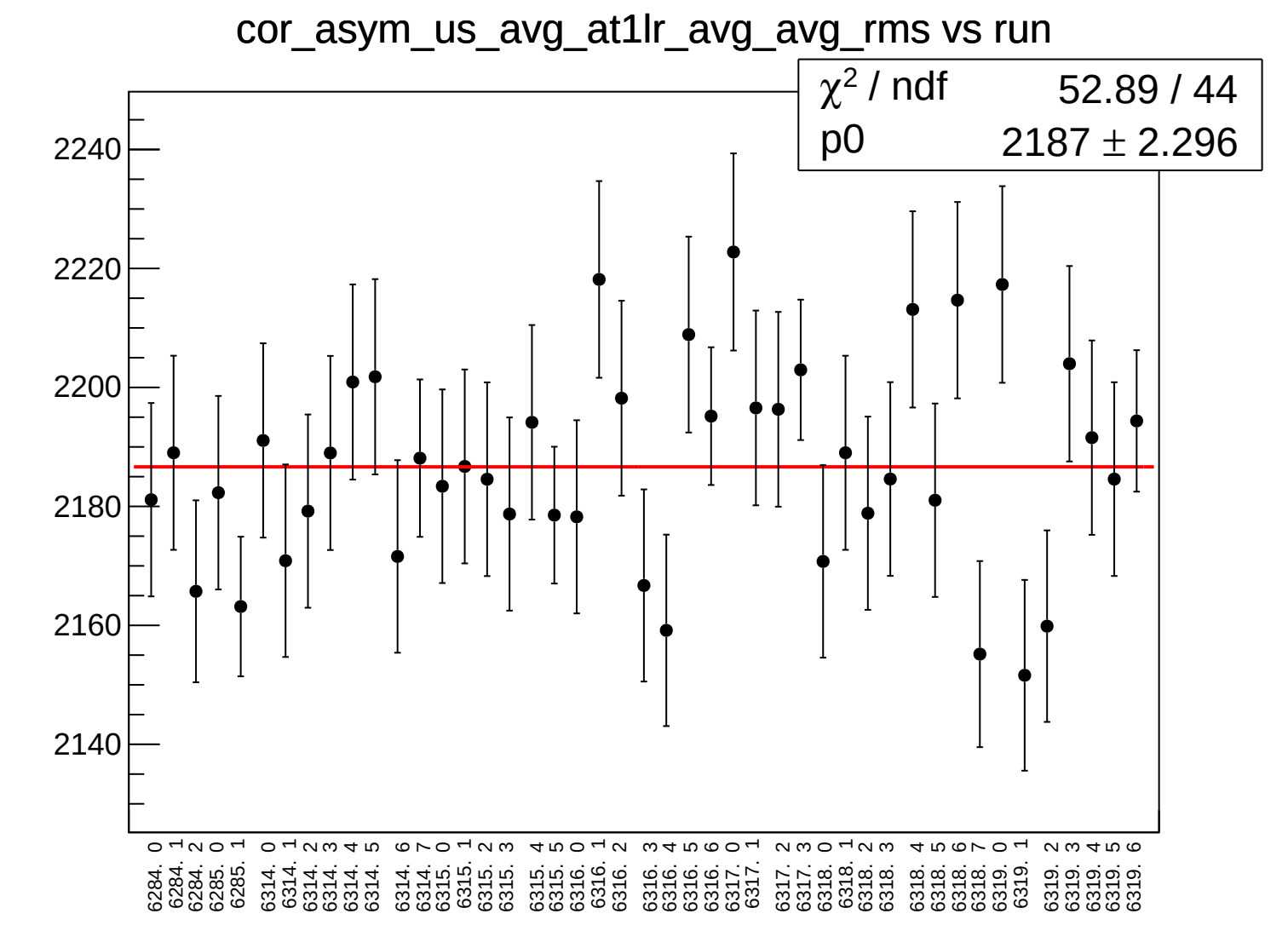
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 52.89 / 44
p0 2187 ± 2.296
2240
2220
2200
2180
2160
2140
6284. 0
6284. 1
6284. 2
6285. 0
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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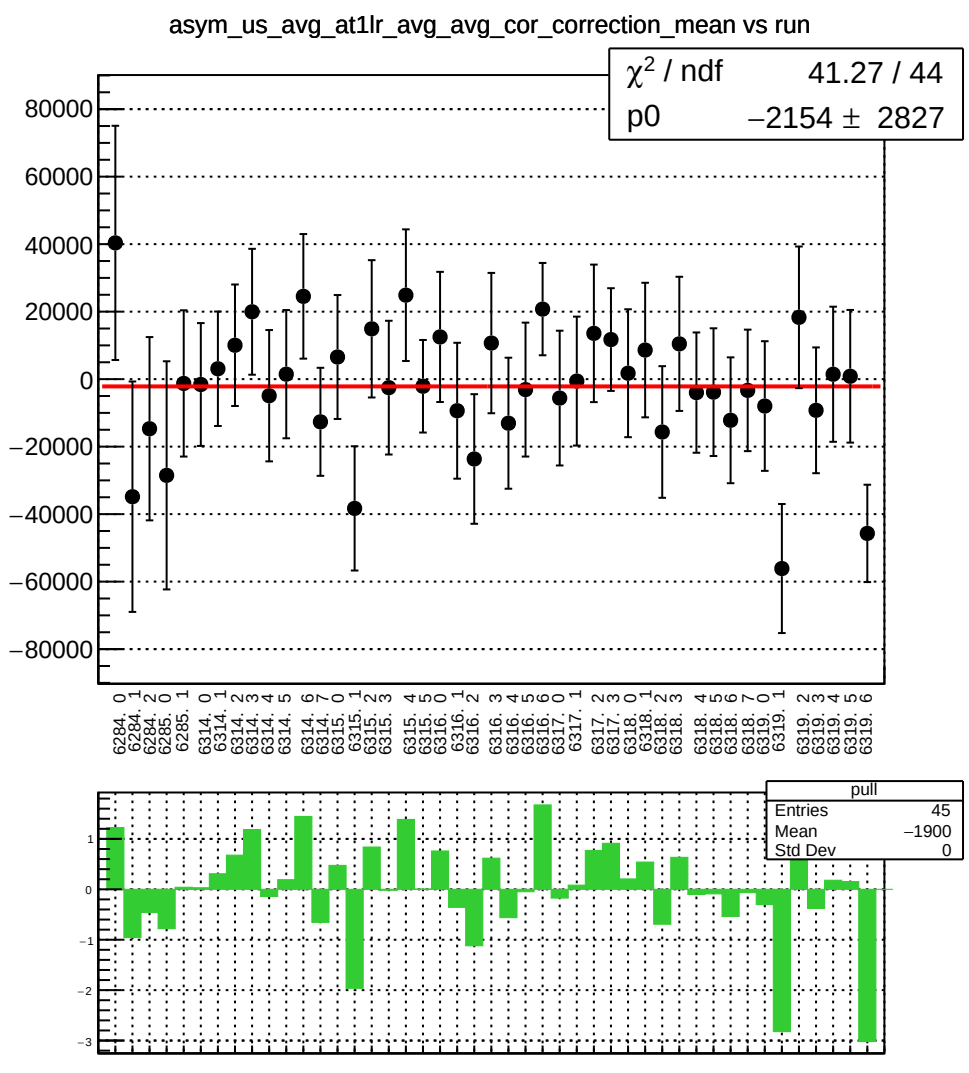
asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 41.27 / 44
p0 −2154 ± 2827
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6316. 0
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6316. 2
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6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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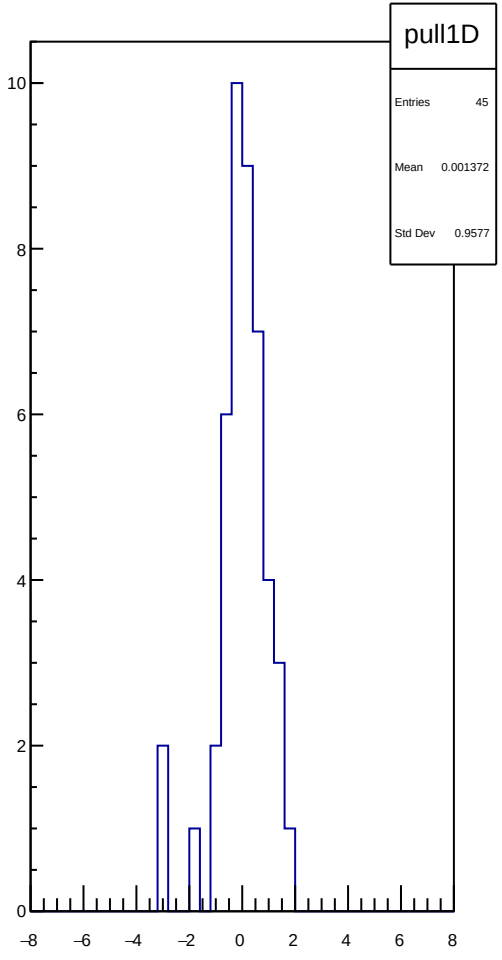
6319. 5
6319. 6
pull
Entries 45
Mean −1900
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.001372
Std Dev 0.9577
10
8
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2
0
−8
−6
−4
−2
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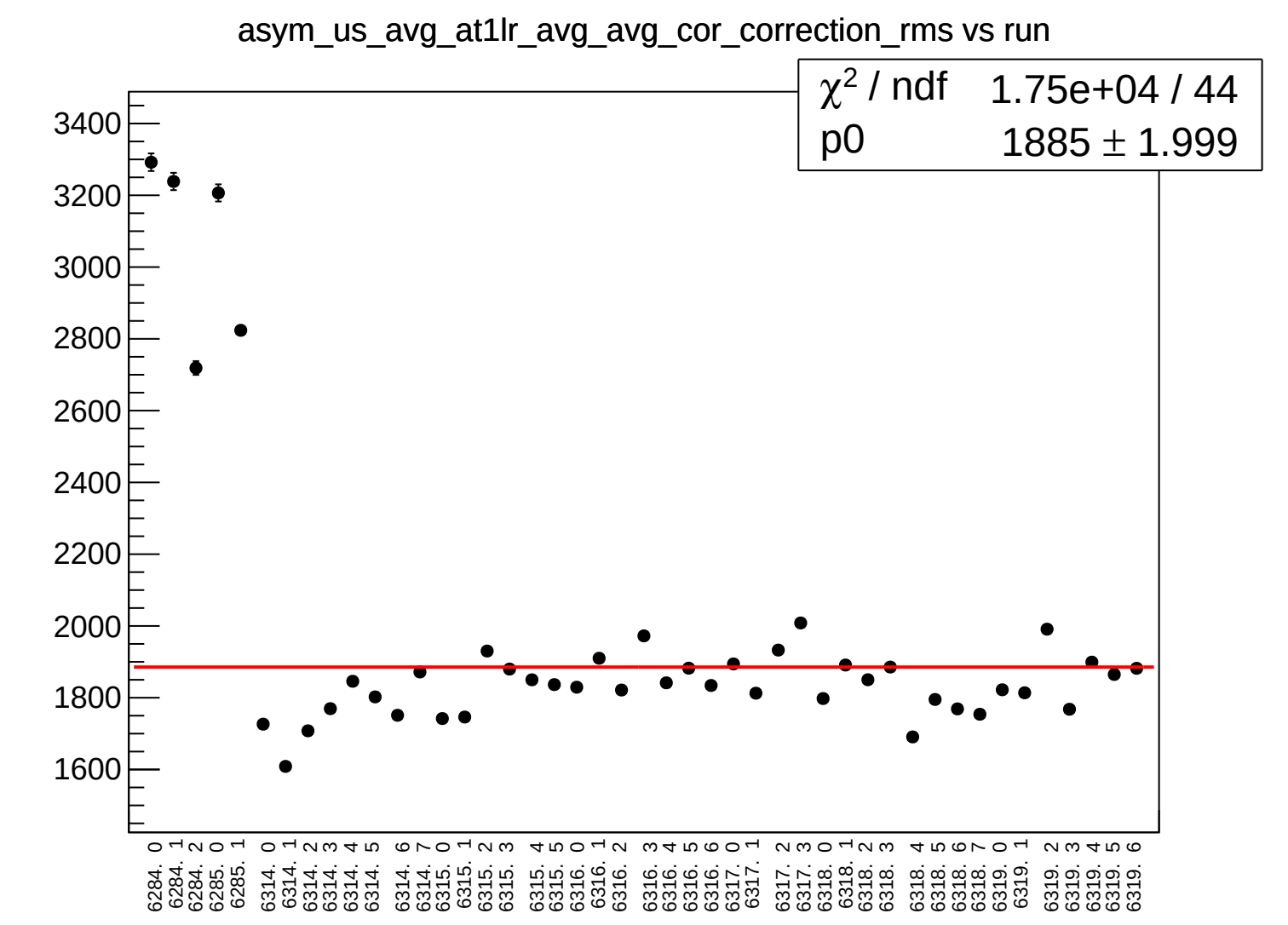
2
4
6
8


asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.75e+04 / 44
p0 1885 ± 1.999
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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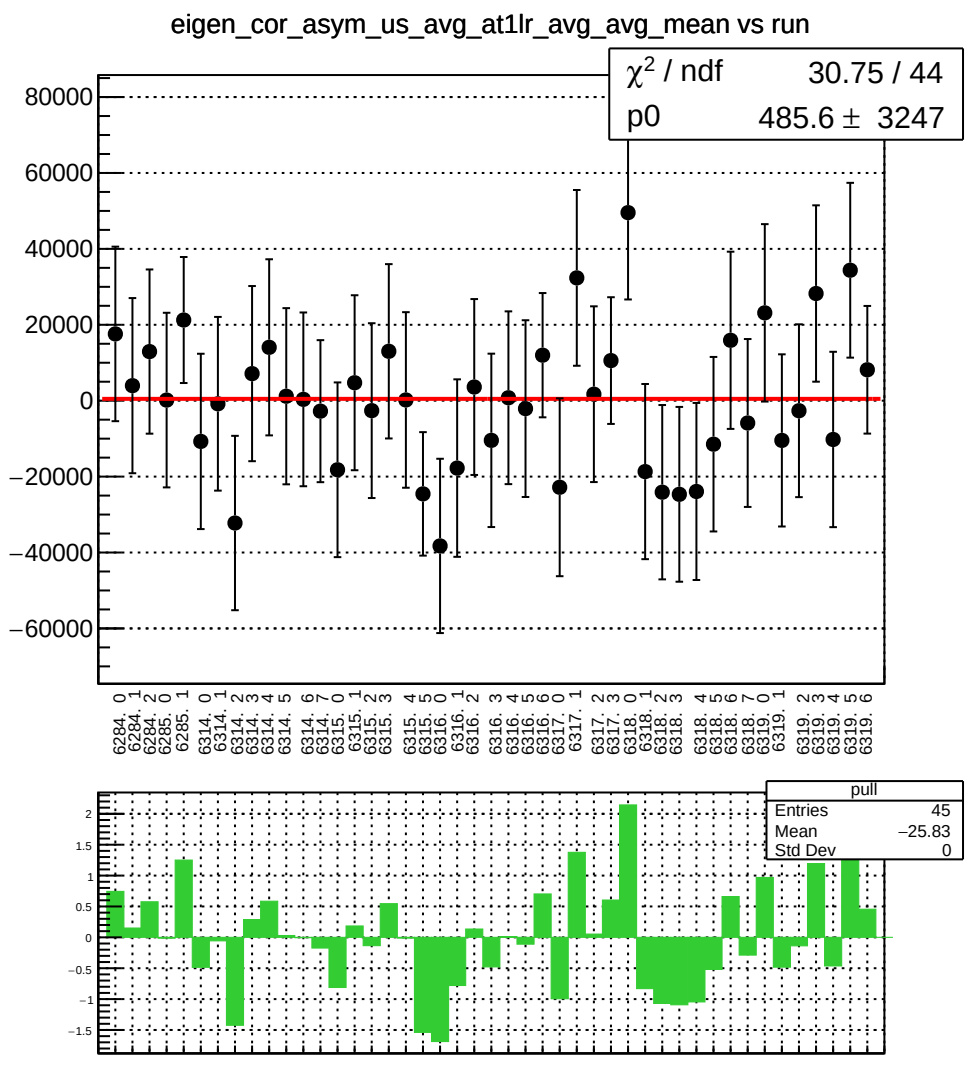
eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 30.75 / 44
p0 485.6 ± 3247
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0112
Std Dev 0.8266
9
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7
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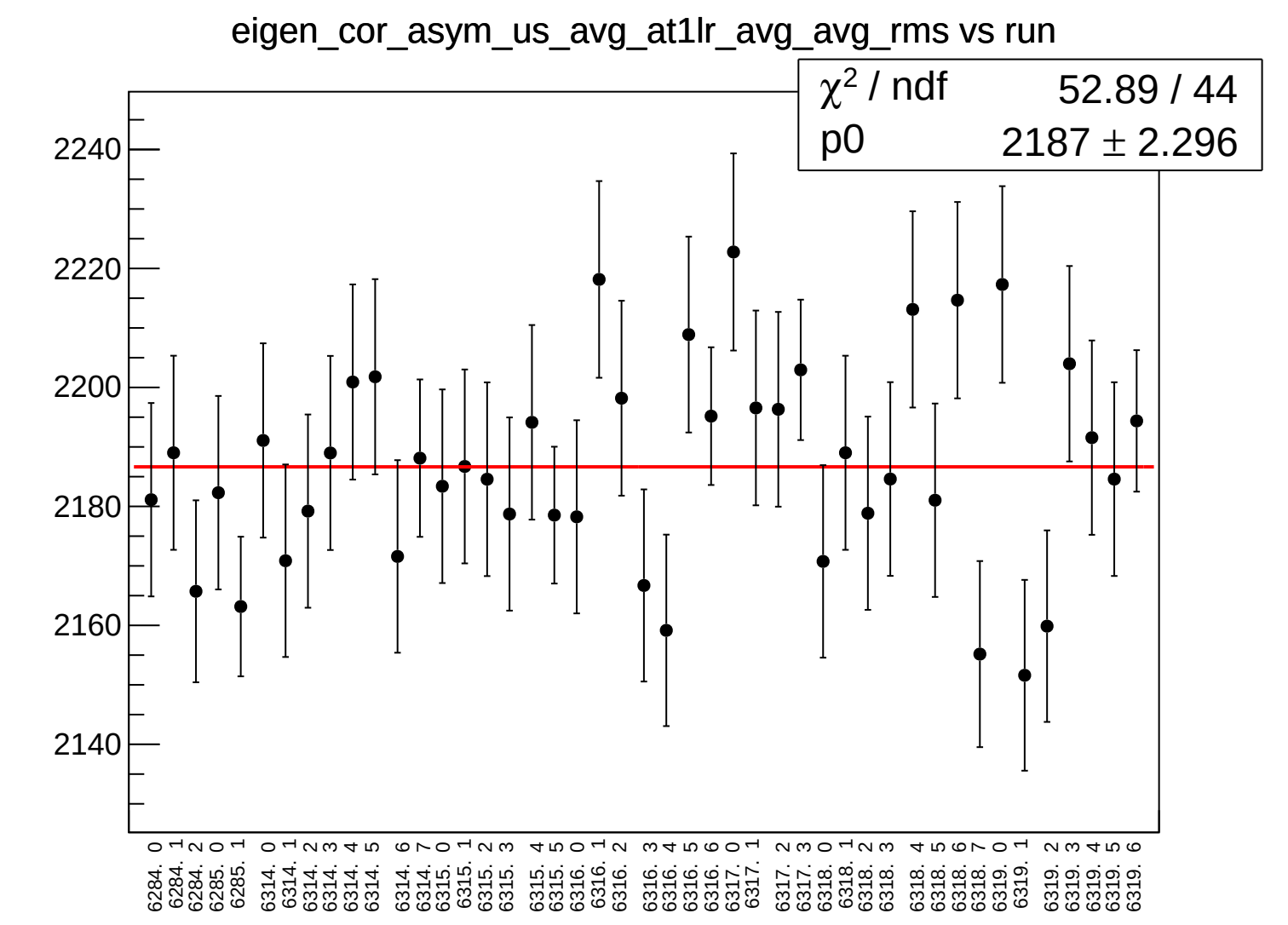
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 52.89 / 44
p0 2187 ± 2.296
2240
2220
2200
2180
2160
2140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 6
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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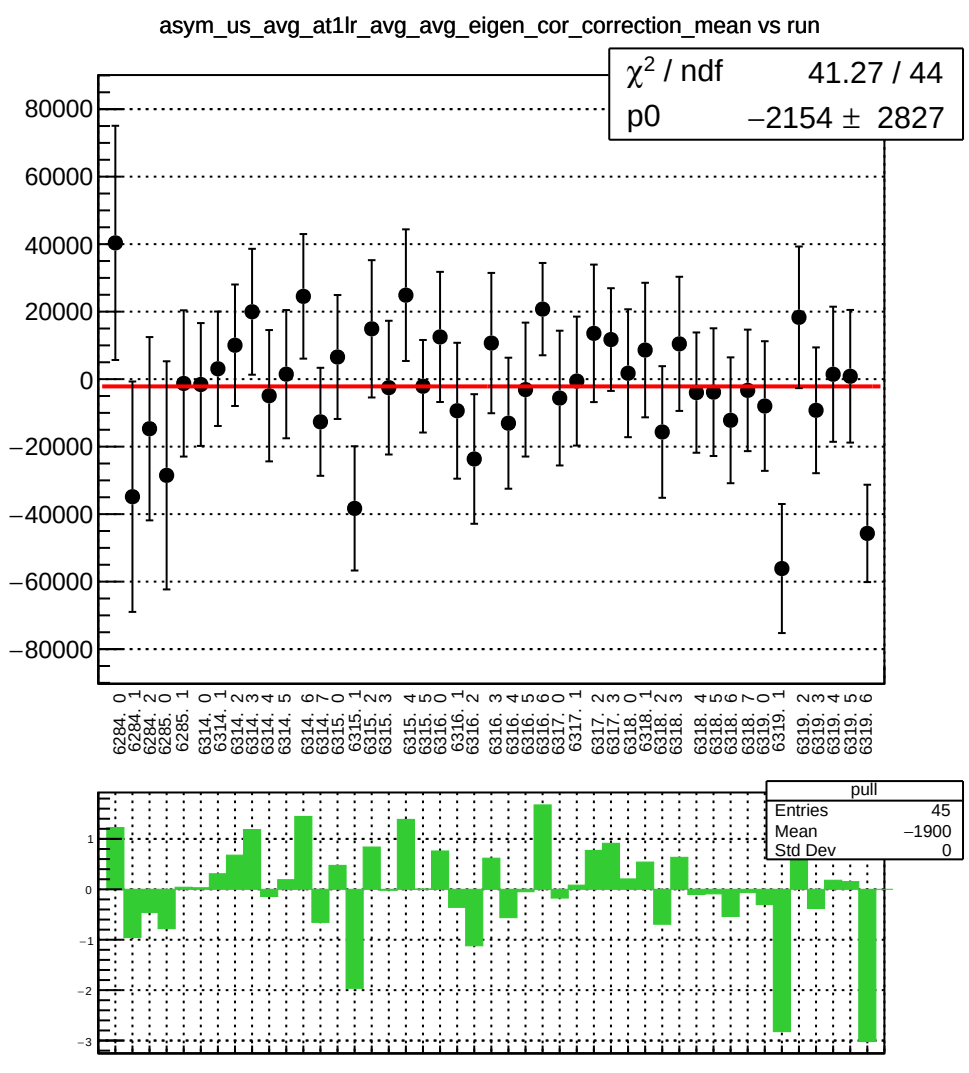
asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.27 / 44
p0 −2154 ± 2827
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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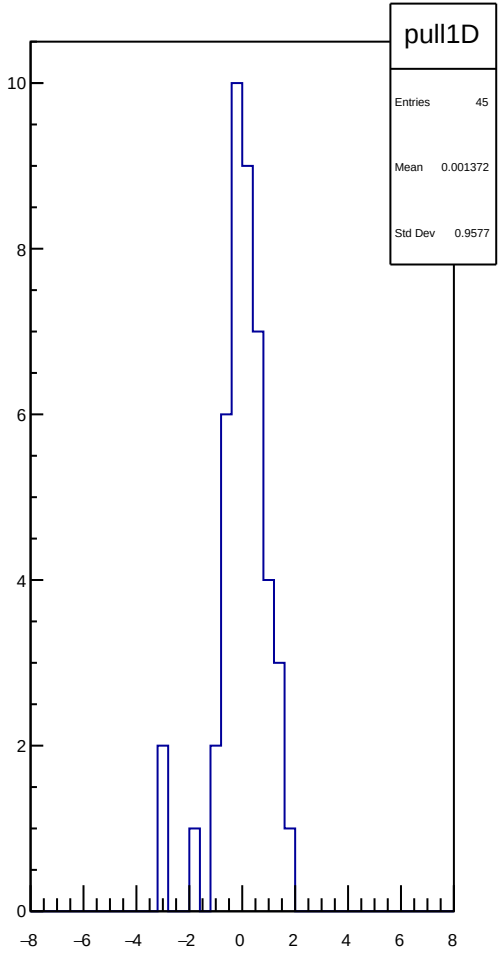
6319. 5
6319. 6
pull
Entries 45
Mean −1900
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.001372
Std Dev 0.9577
10
8
6
4
2
0
−8
−6
−4
−2
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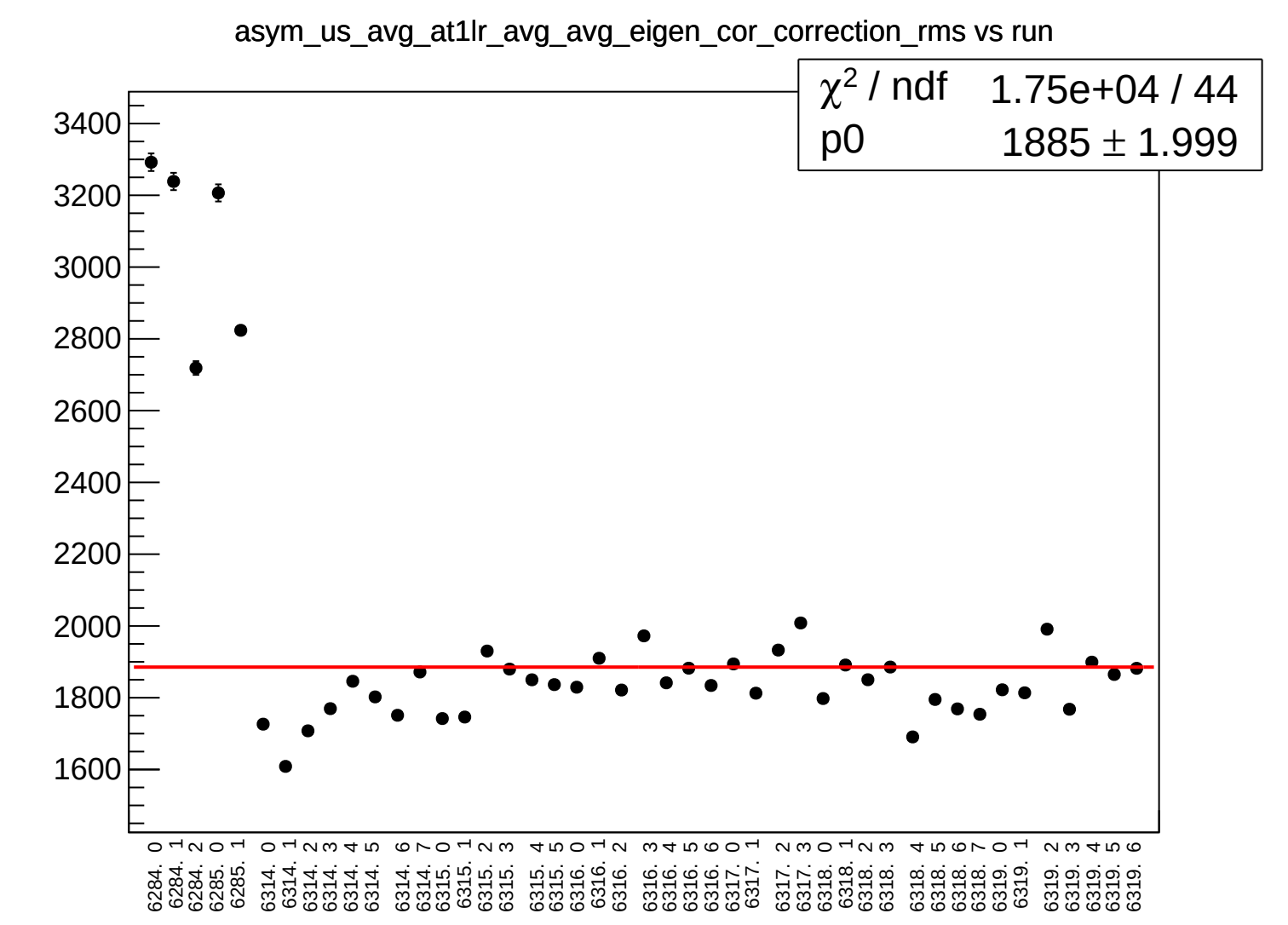
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.75e+04 / 44
p0 1885 ± 1.999
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
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6318. 0
6318. 1
6318. 2
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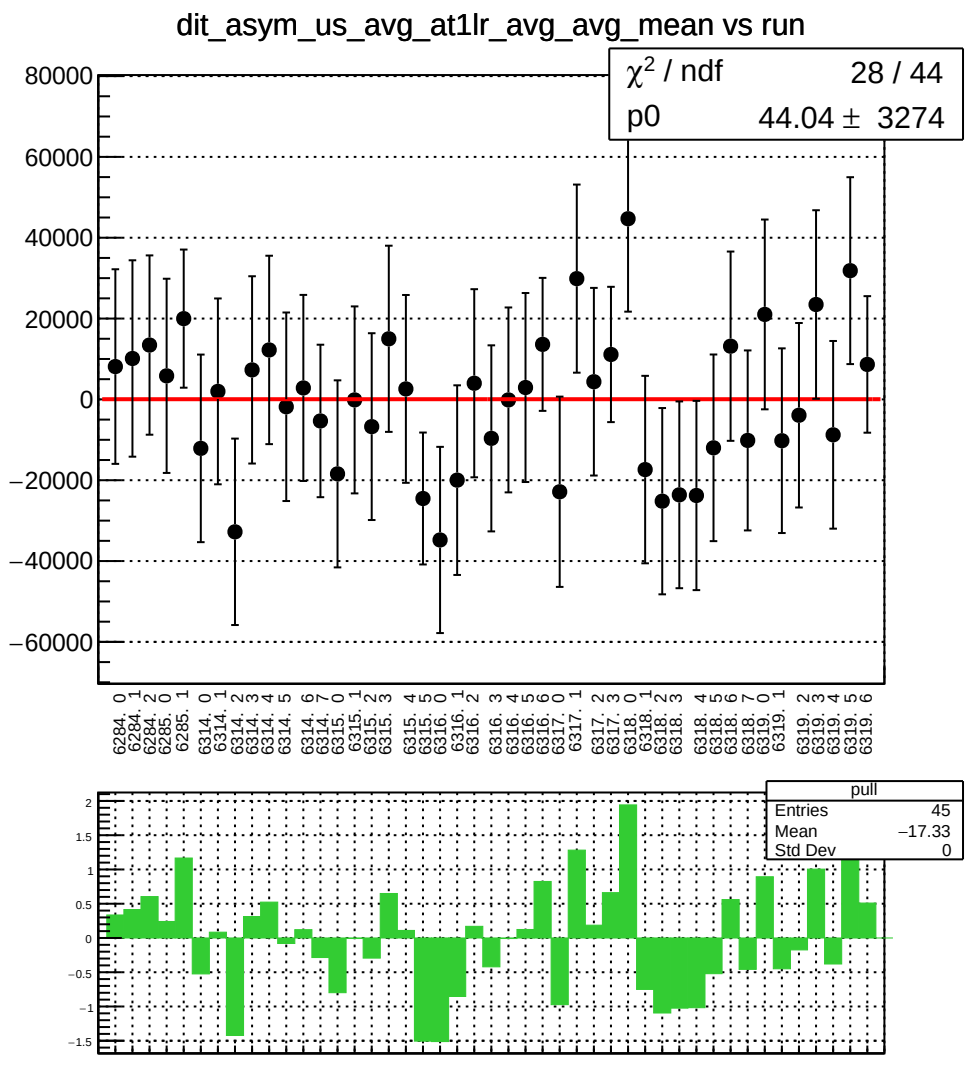
dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 28 / 44
p0 44.04 ± 3274
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
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6315. 4
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6316. 0
6316. 1
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6316. 6
6317. 0
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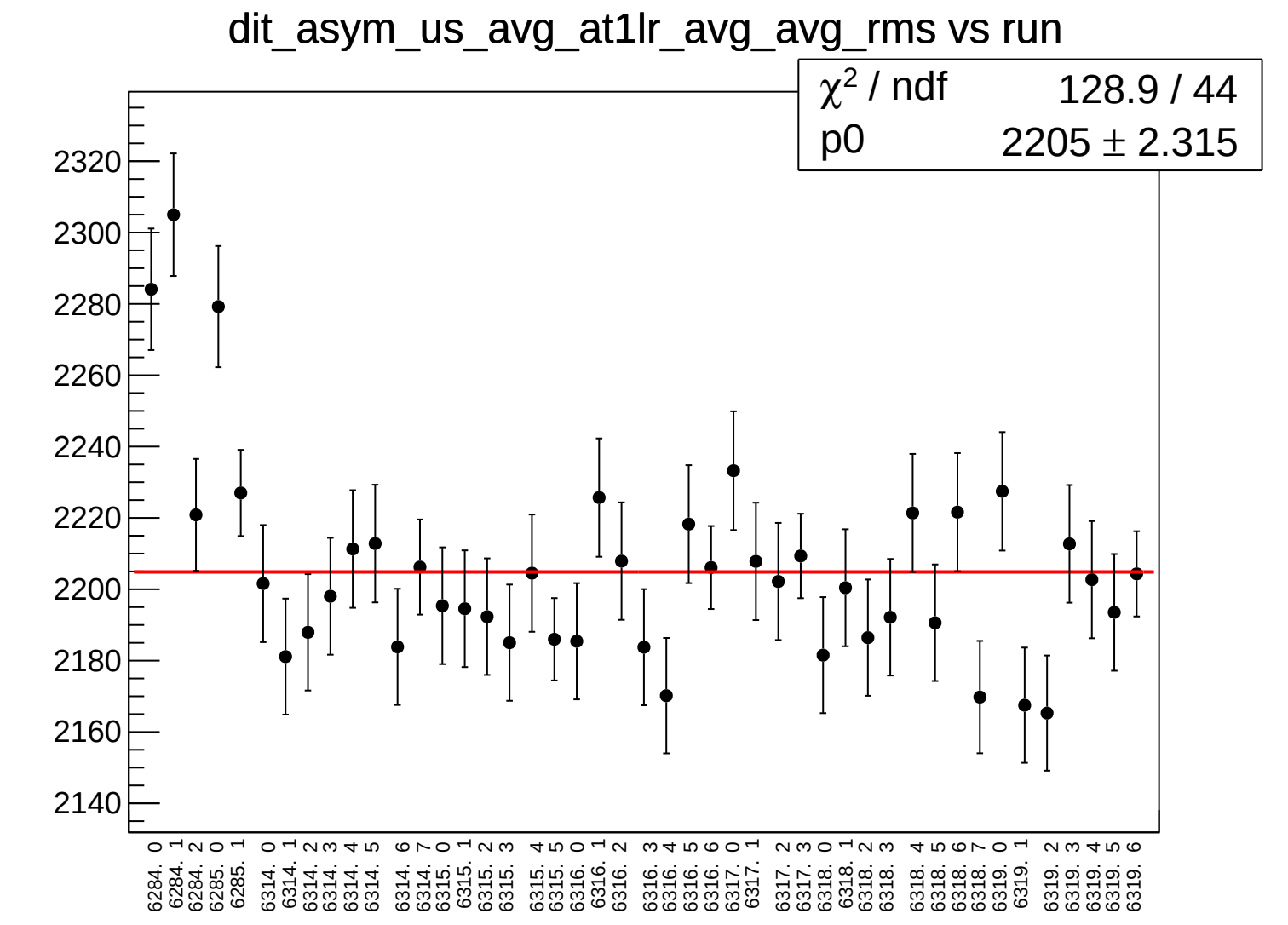
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −17.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01008
Std Dev 0.7887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 128.9 / 44
p0 2205 ± 2.315
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 3
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6316. 2
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6317. 2
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6318. 0
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6318. 2
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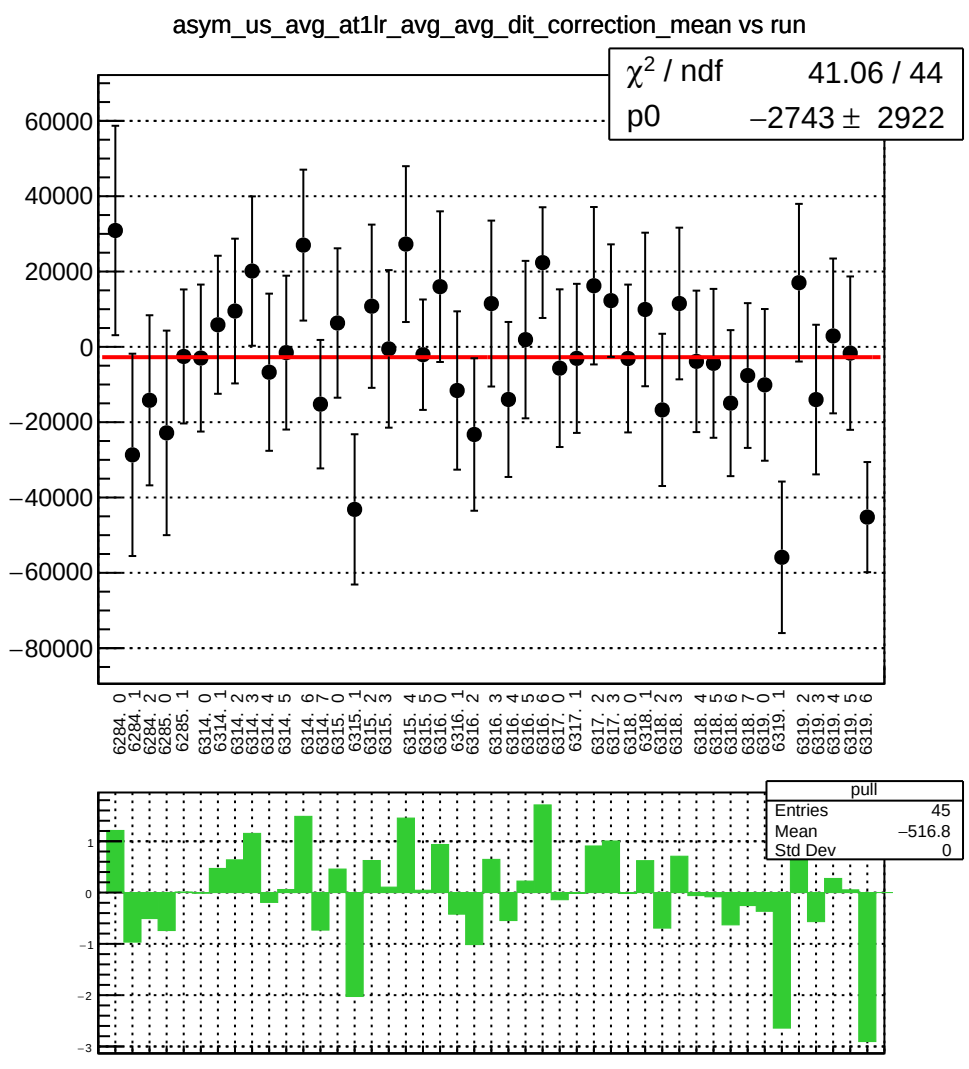
asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 41.06 / 44
p0 −2743 ± 2922
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 2
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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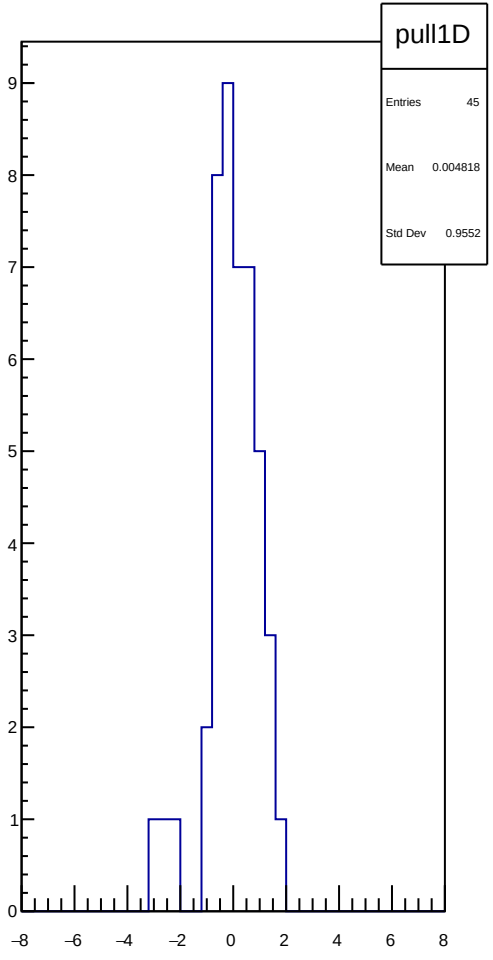
6319. 6
pull
Entries 45
Mean −516.8
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.004818
Std Dev 0.9552
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5
4
3
2
1
0
−8
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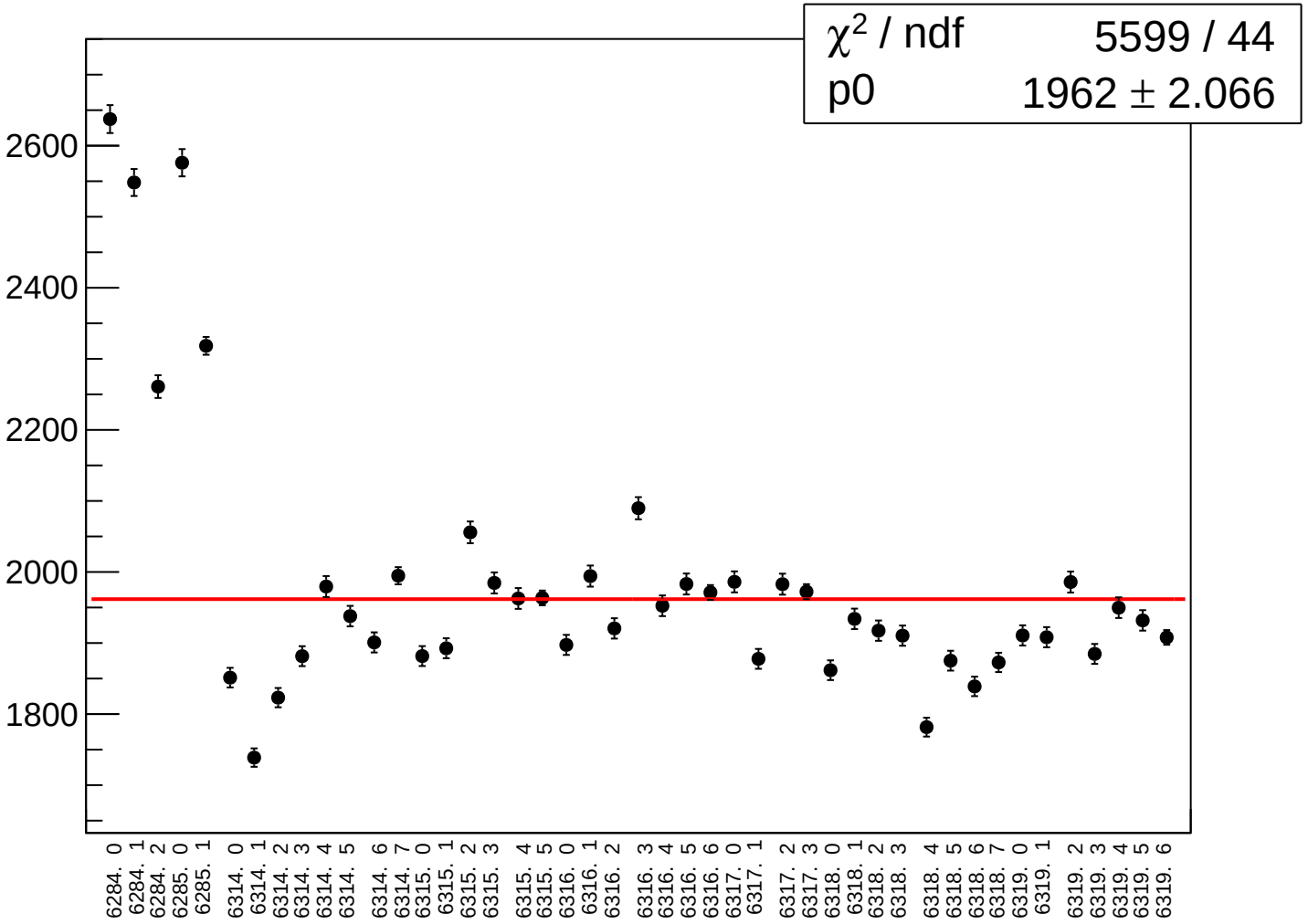
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5599 / 44
p0 1962 ± 2.066
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6315. 2
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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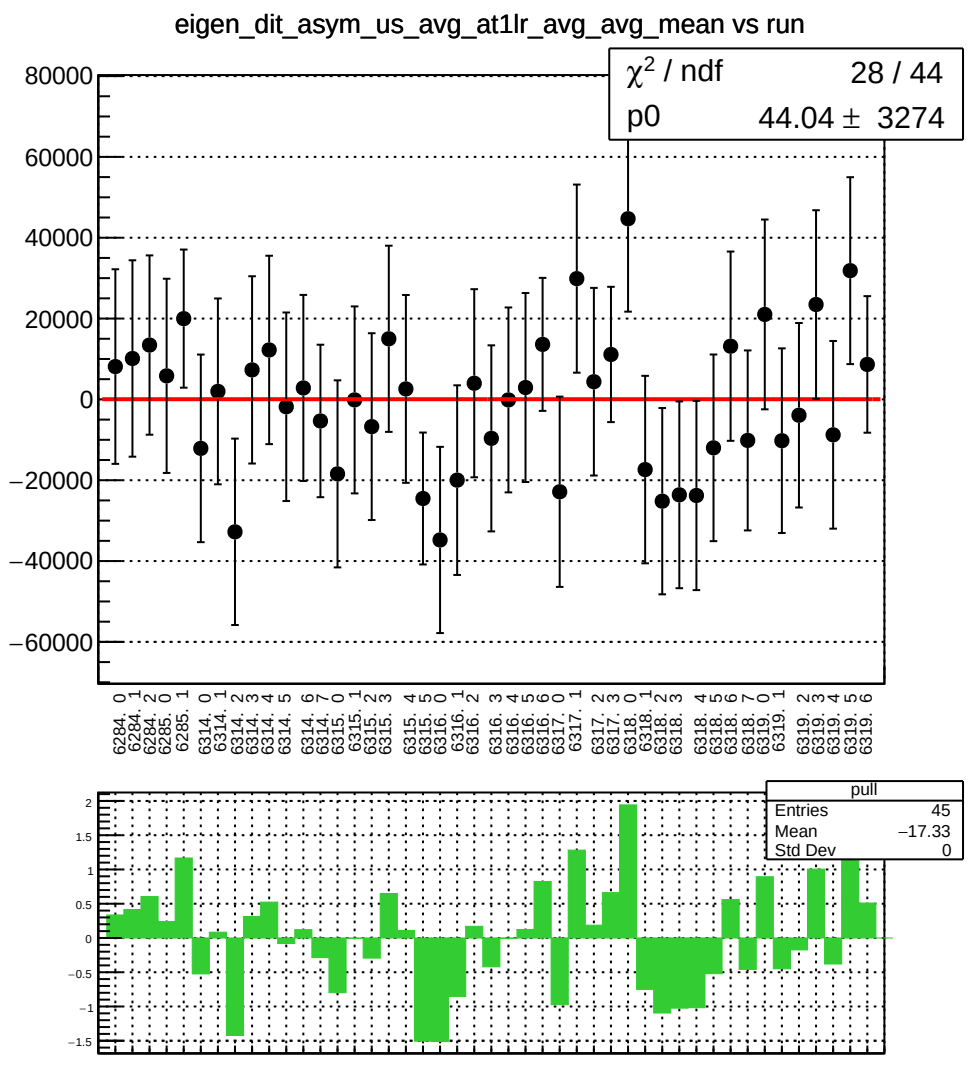
eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 28 / 44
p0 44.04 ± 3274
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
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6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −17.33
Std Dev 0
2
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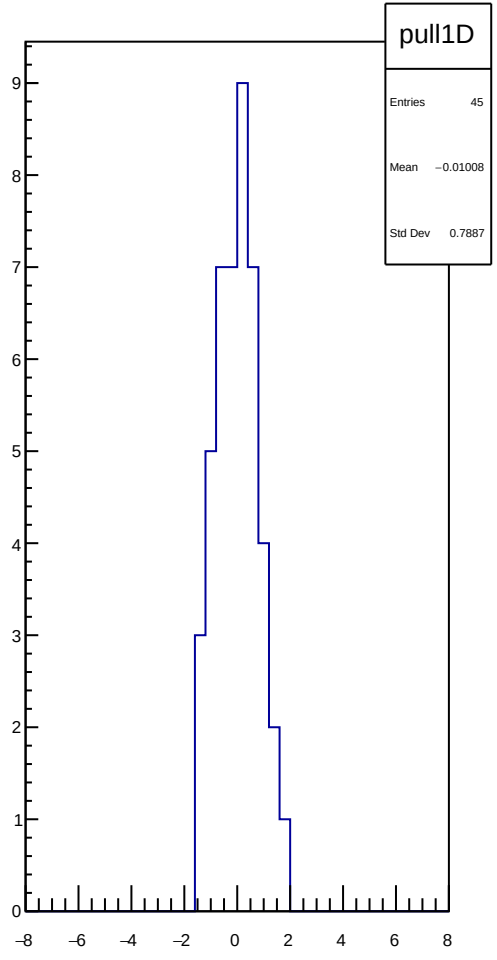
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01008
Std Dev 0.7887
9
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3
2
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−4
−2
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2
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6
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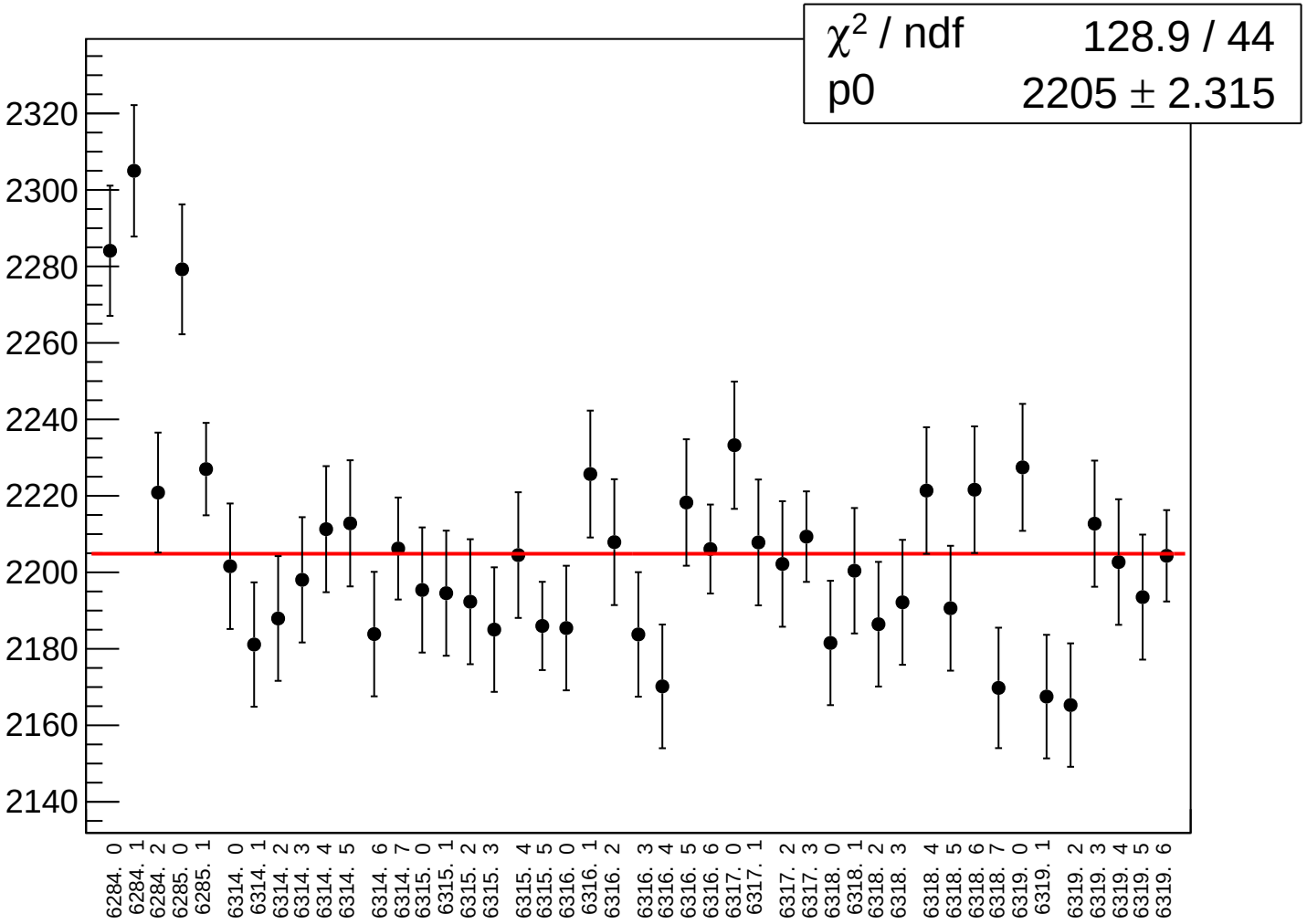
eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 128.9 / 44
p0 2205 ± 2.315
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
6284. 0
6284. 1
6284. 2
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6285. 1
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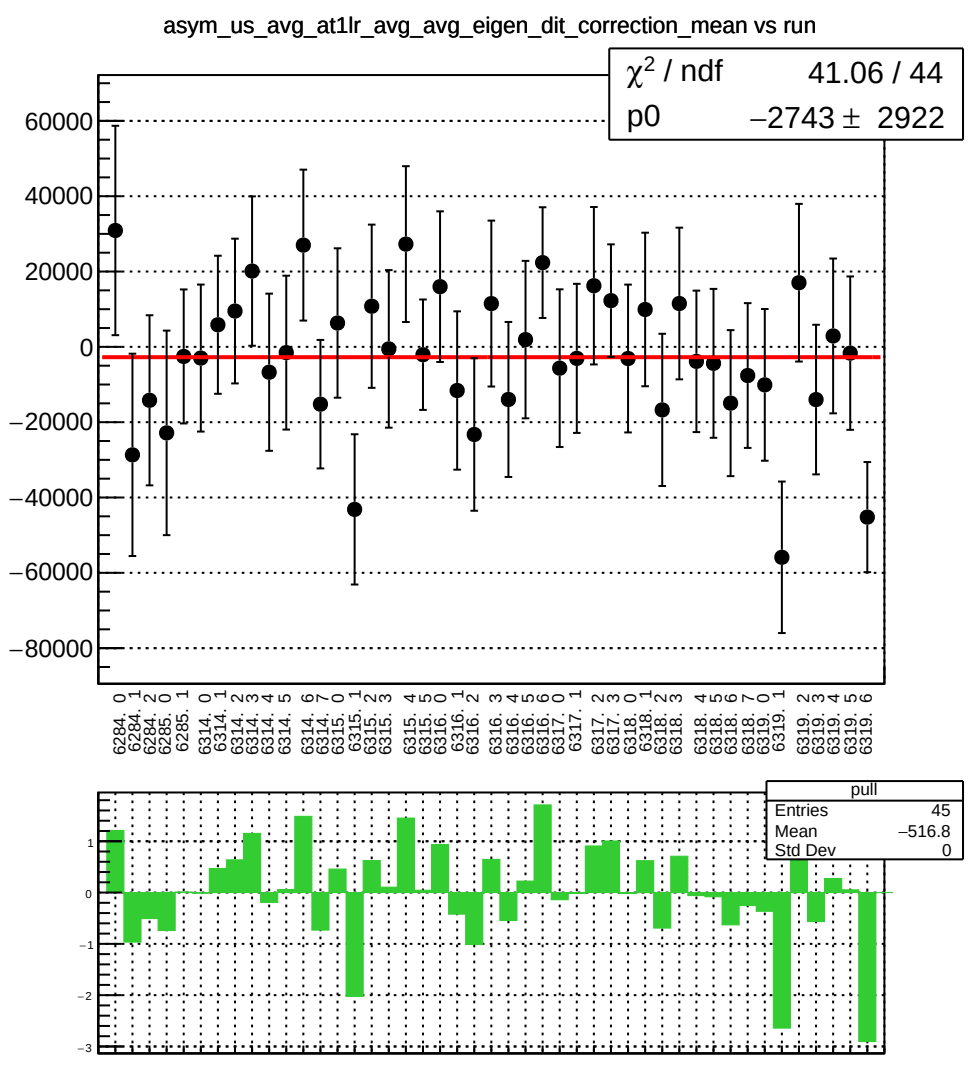
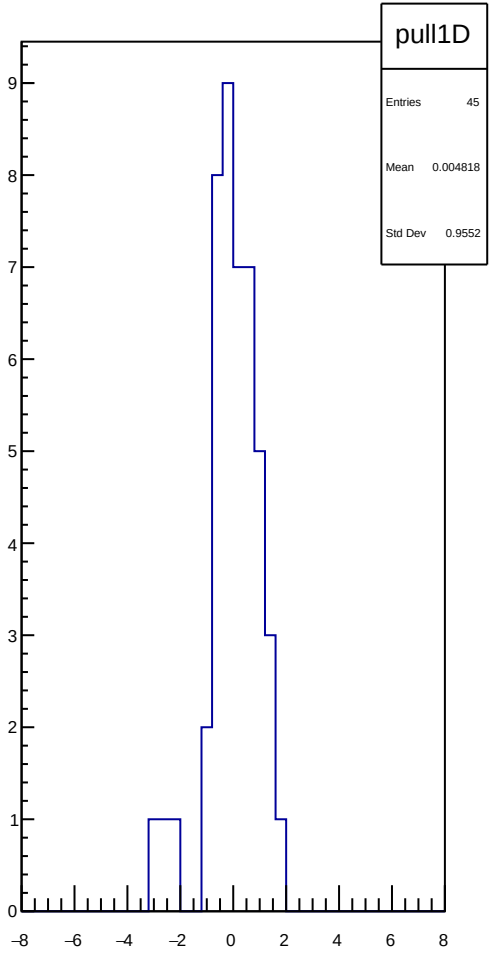
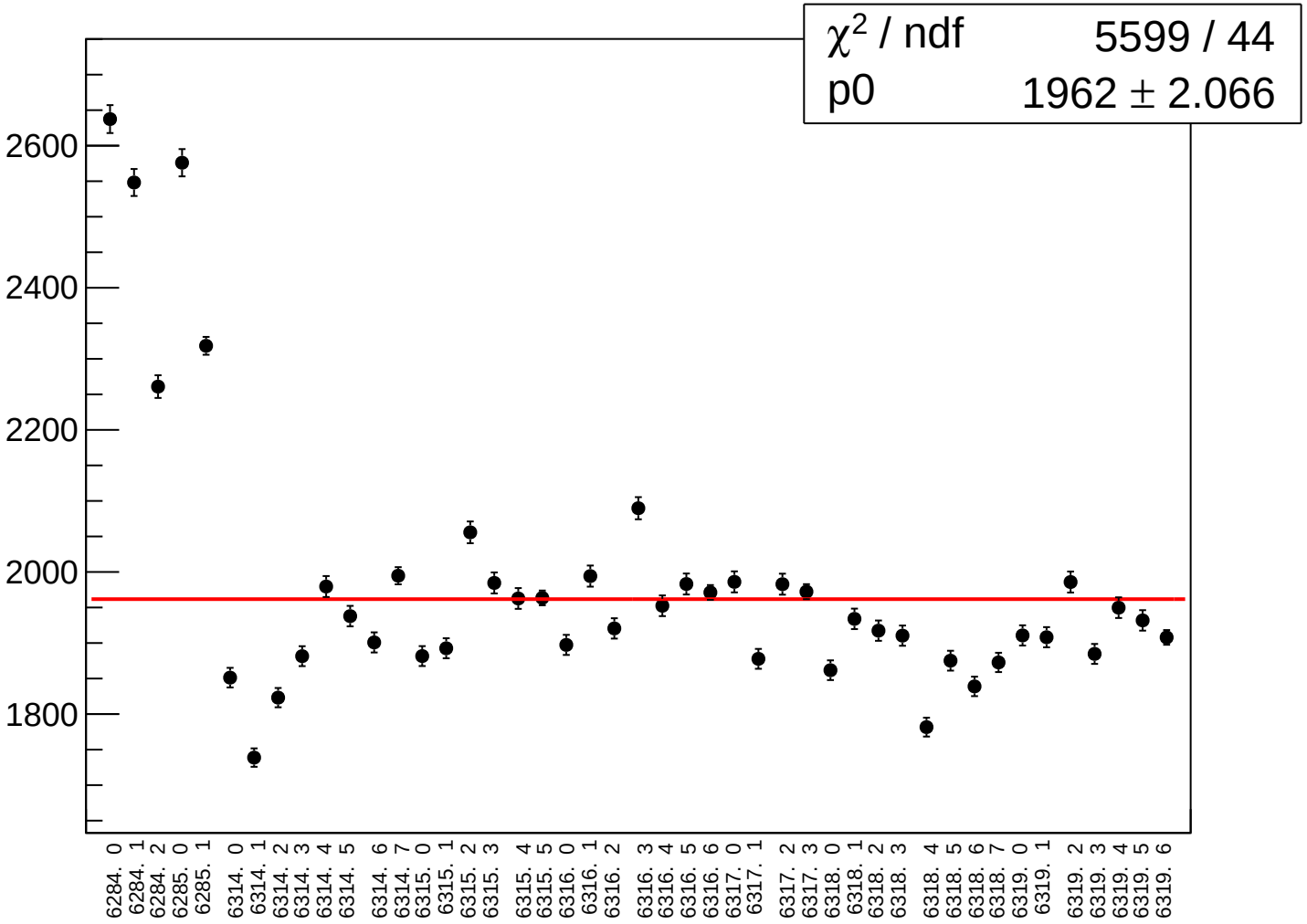
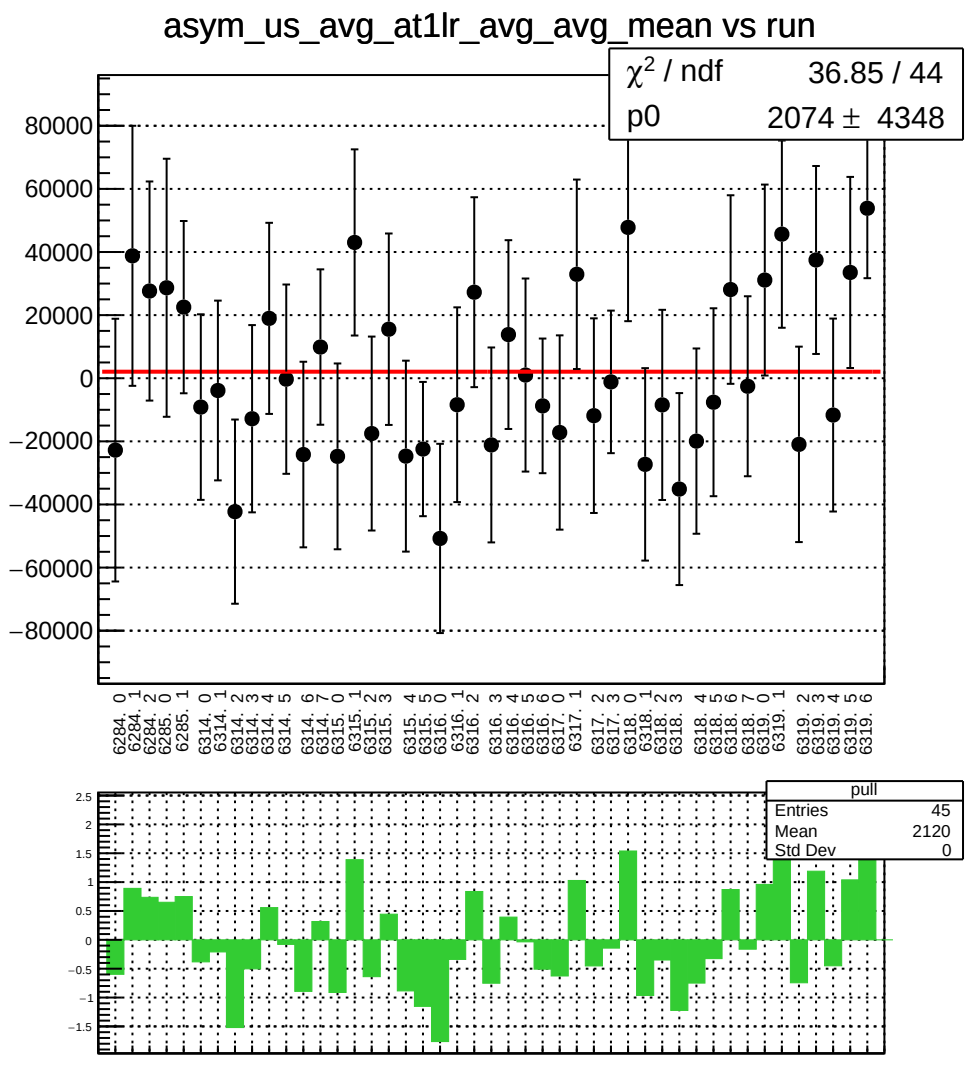
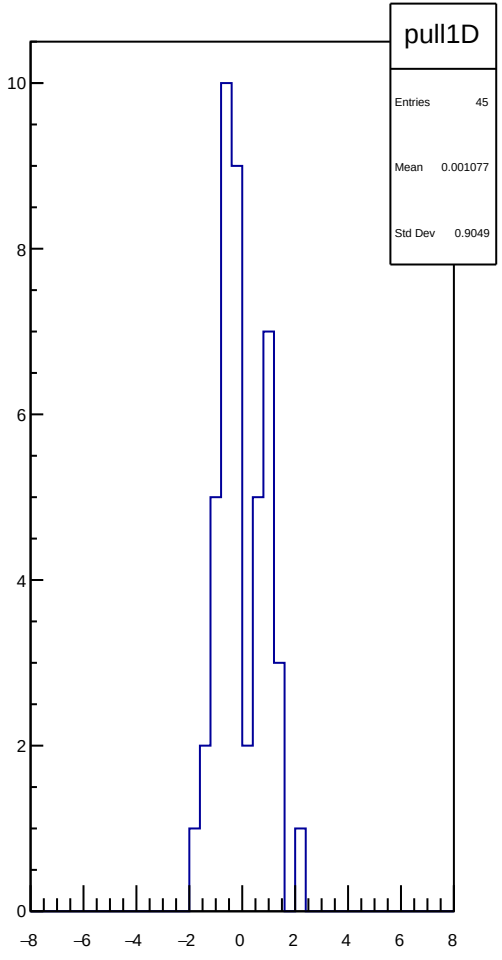
6319. 6

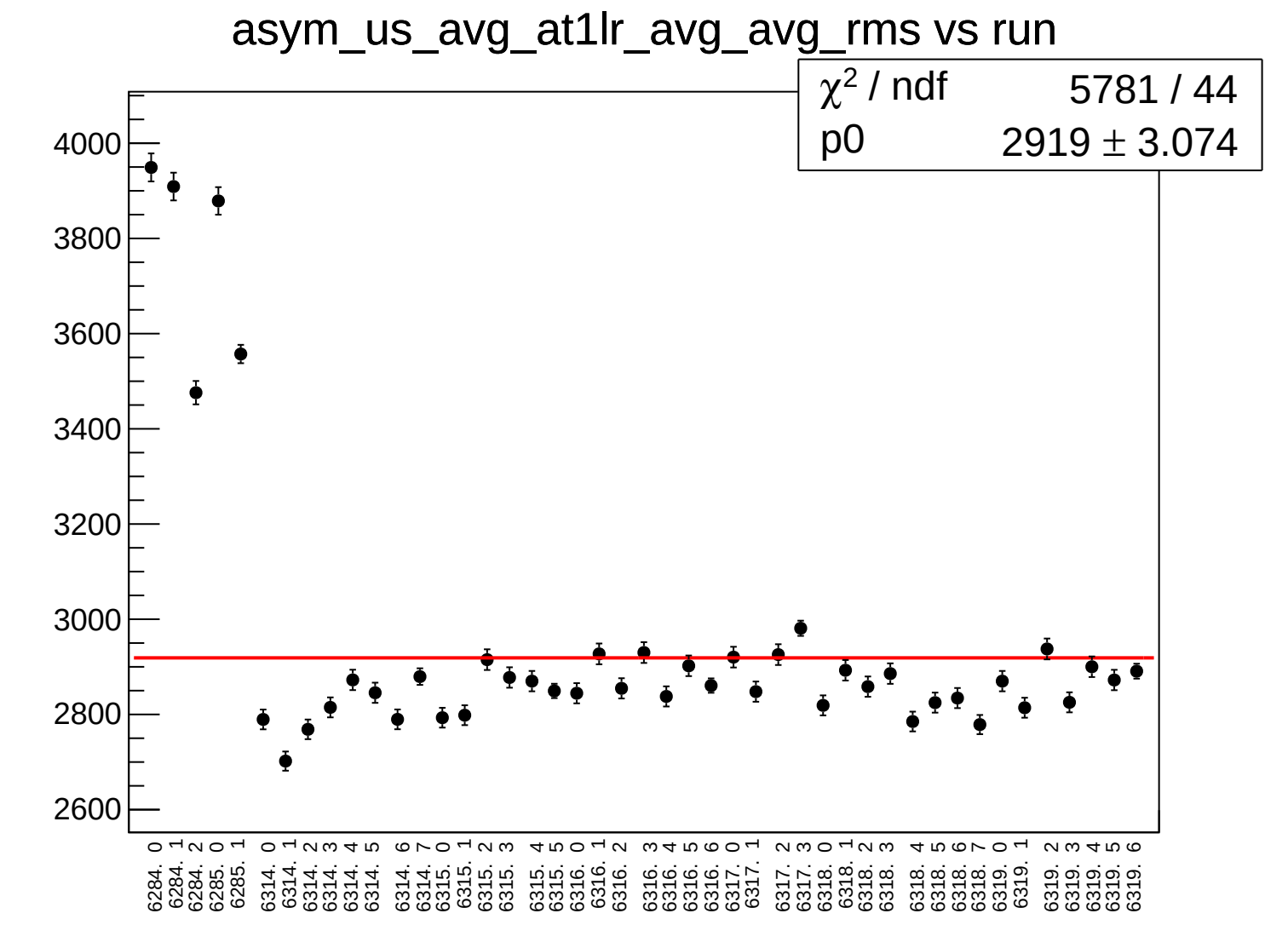

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.06 / 44
p0 −2743 ± 2922
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −516.8
Std Dev 0
1
0
−1
−2
−3

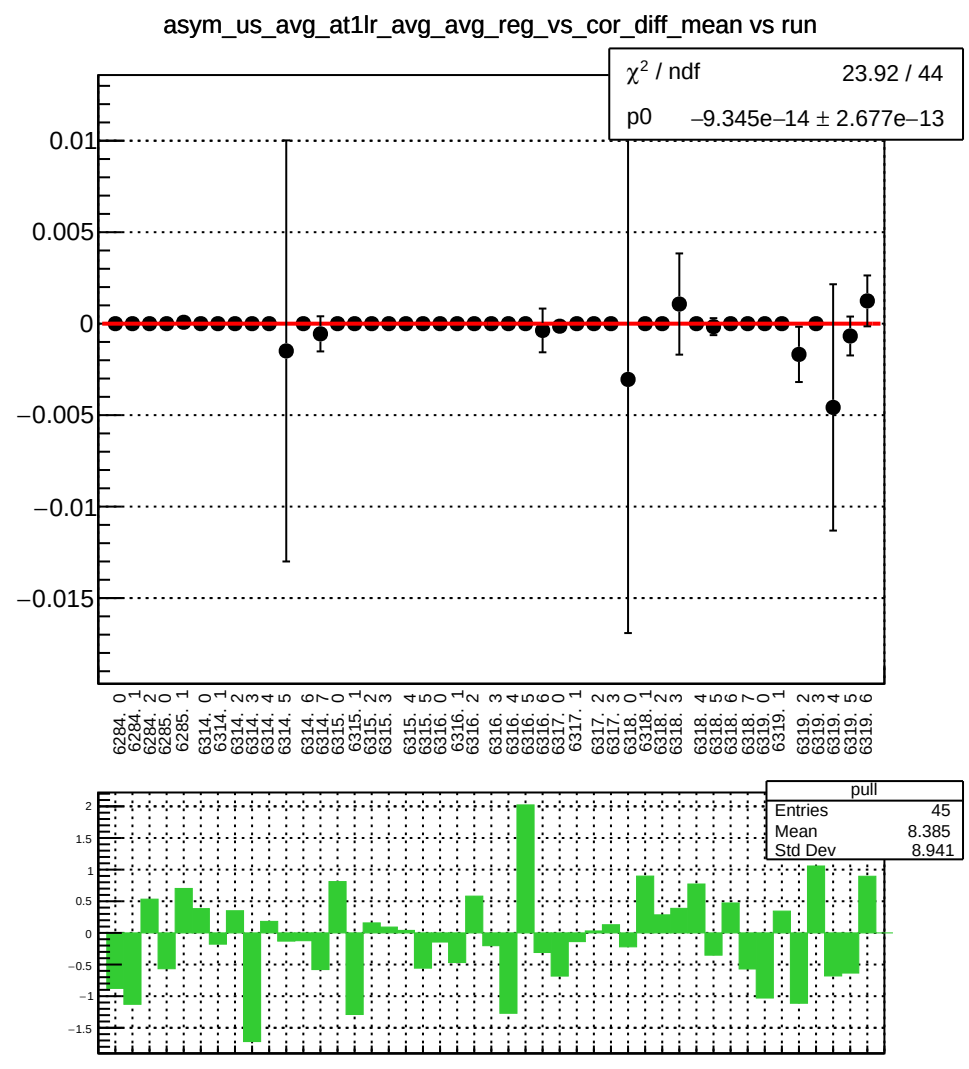

pull1D
Entries 45
Mean 0.004818
Std Dev 0.9552
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

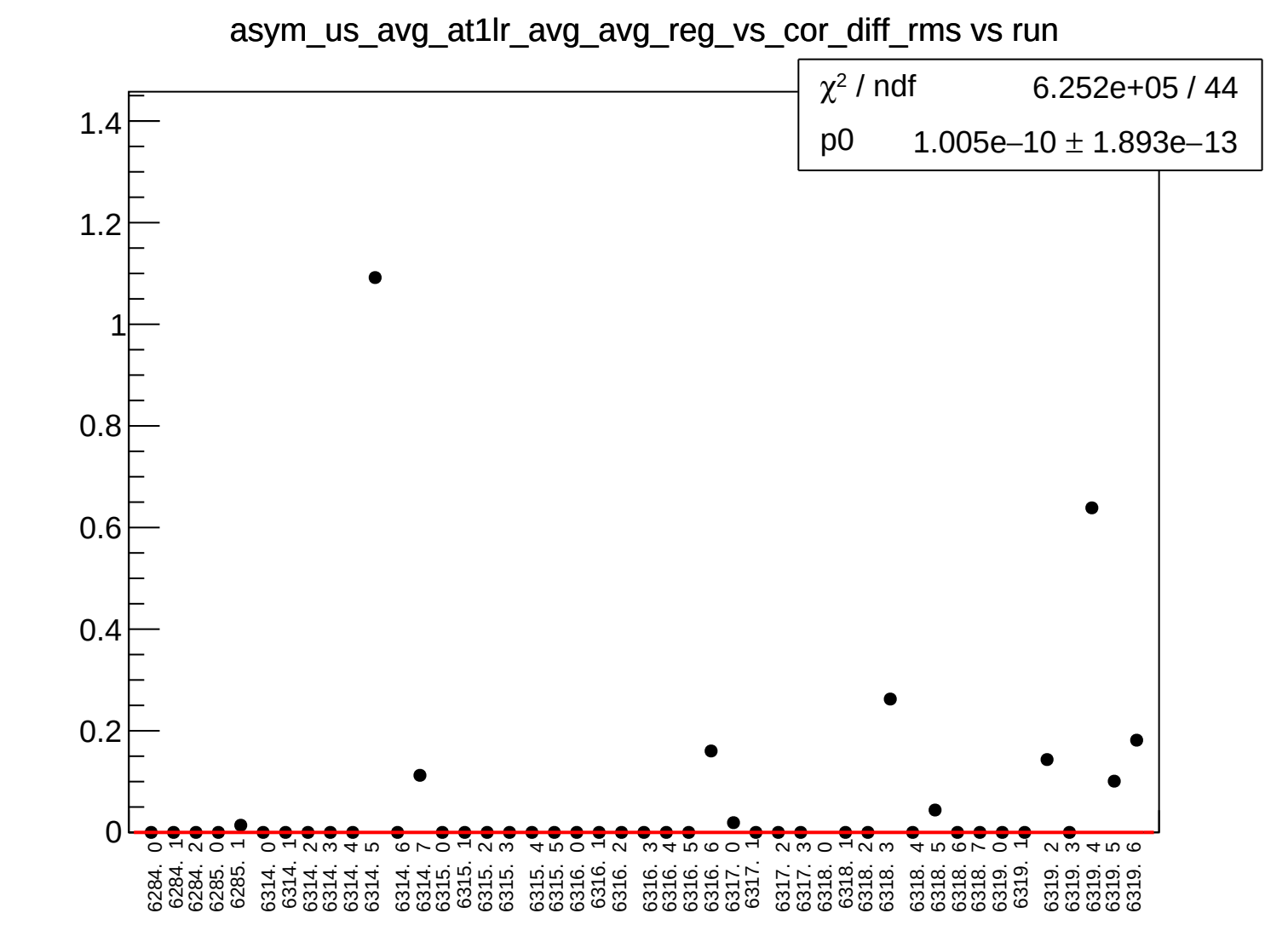

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5599 / 44
p0 1962 ± 2.066
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

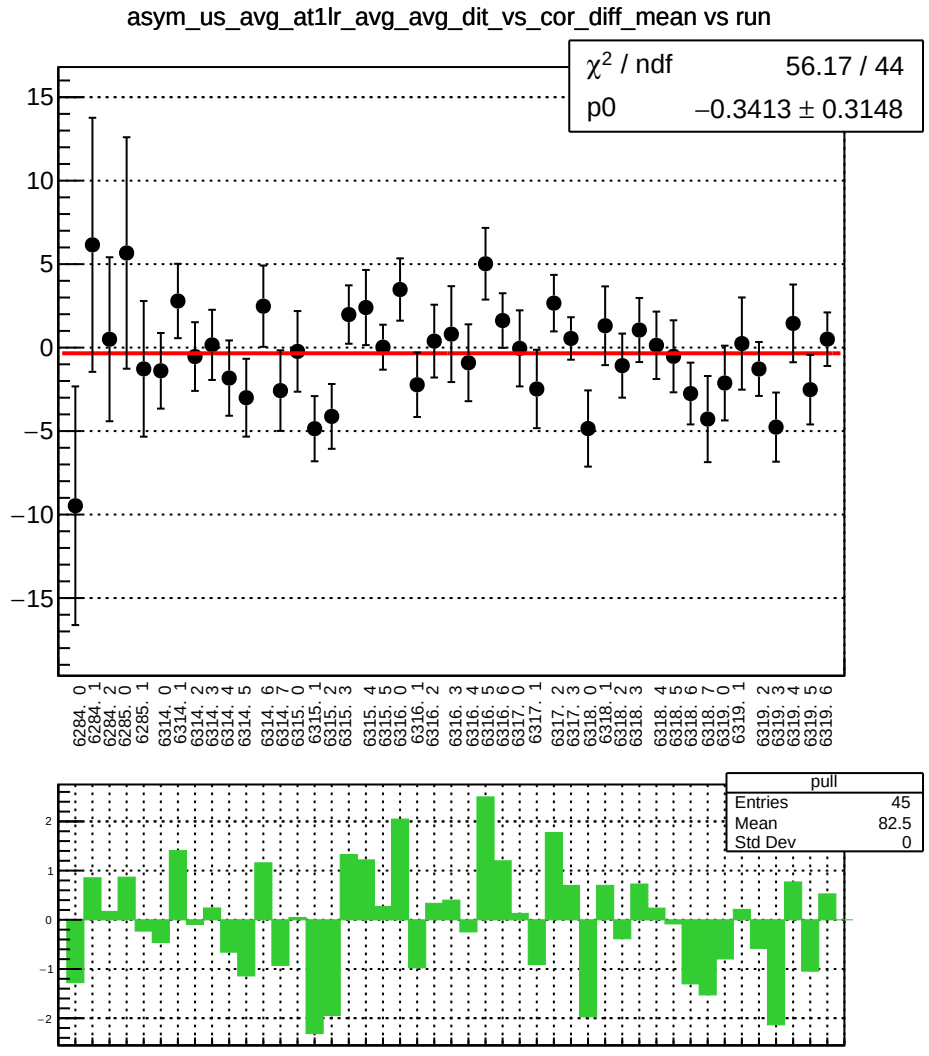

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 36.85 / 44
p0 2074 ± 4348
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

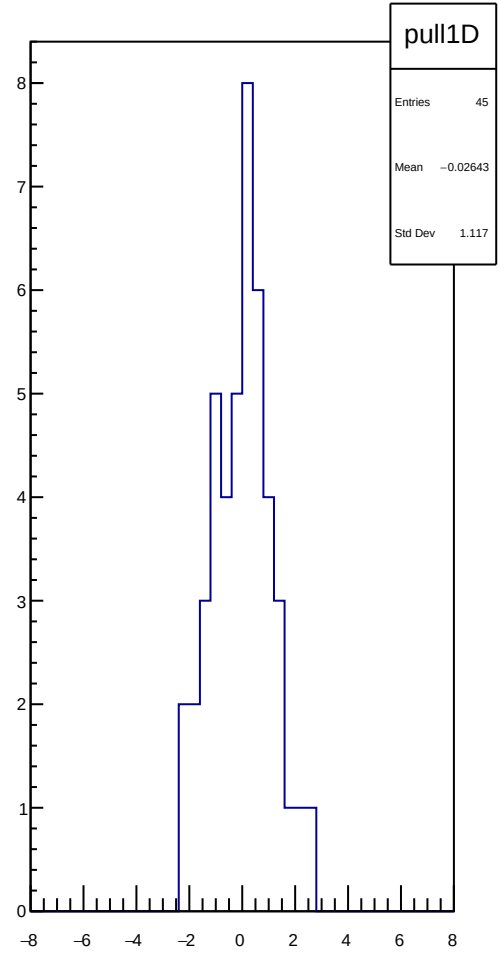

pull1D
Entries 45
Mean 0.001077
Std Dev 0.9049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

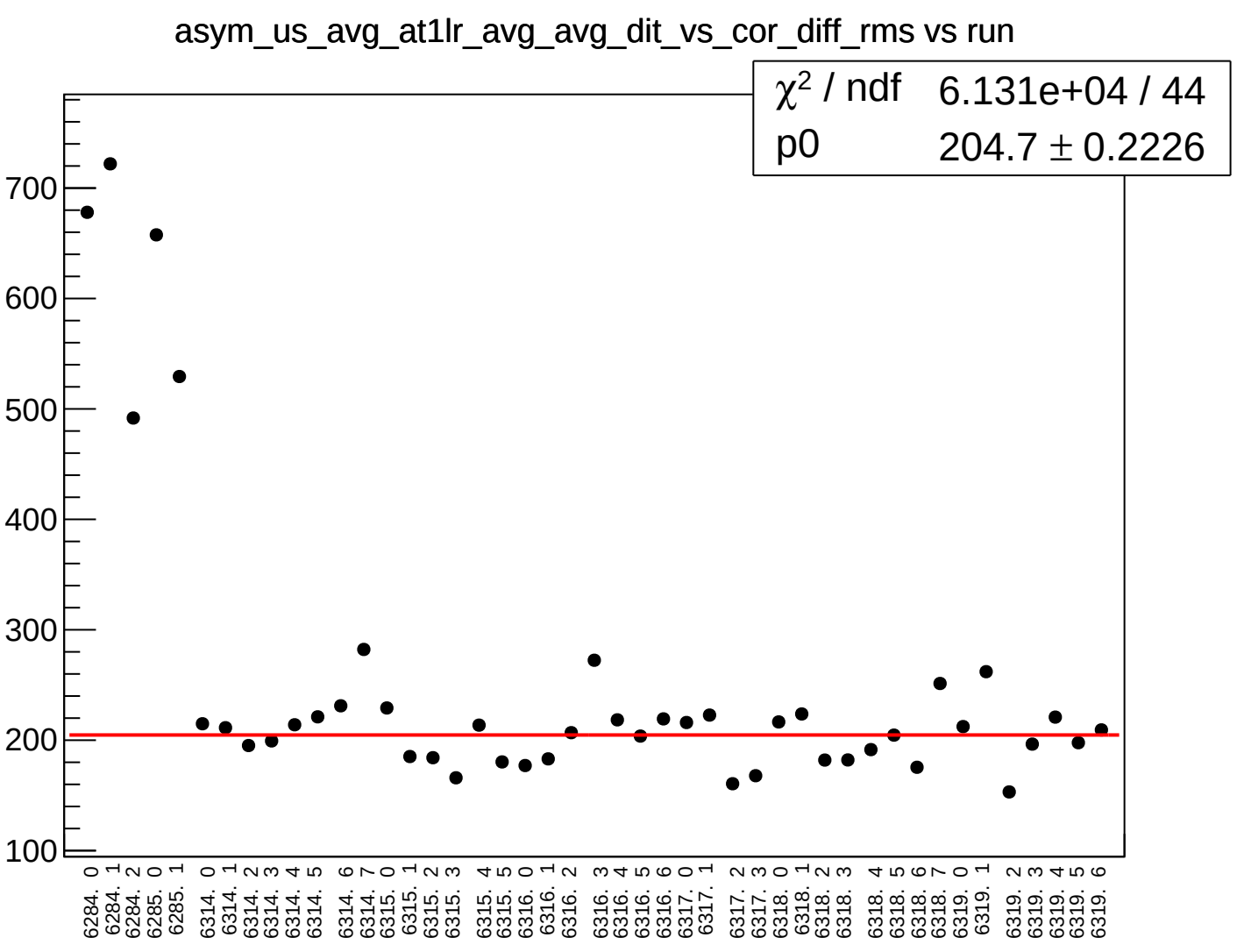

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 5781 / 44
p0 2919 ± 3.074
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.92 / 44
p0 −9.345e−14 ± 2.677e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8.385
Std Dev 8.941
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.08505
Std Dev 0.7241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.252e+05 / 44
p0 1.005e−10 ± 1.893e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 56.17 / 44
p0 −0.3413 ± 0.3148
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 82.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02643
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.131e+04 / 44
p0 204.7 ± 0.2226
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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6319. 4
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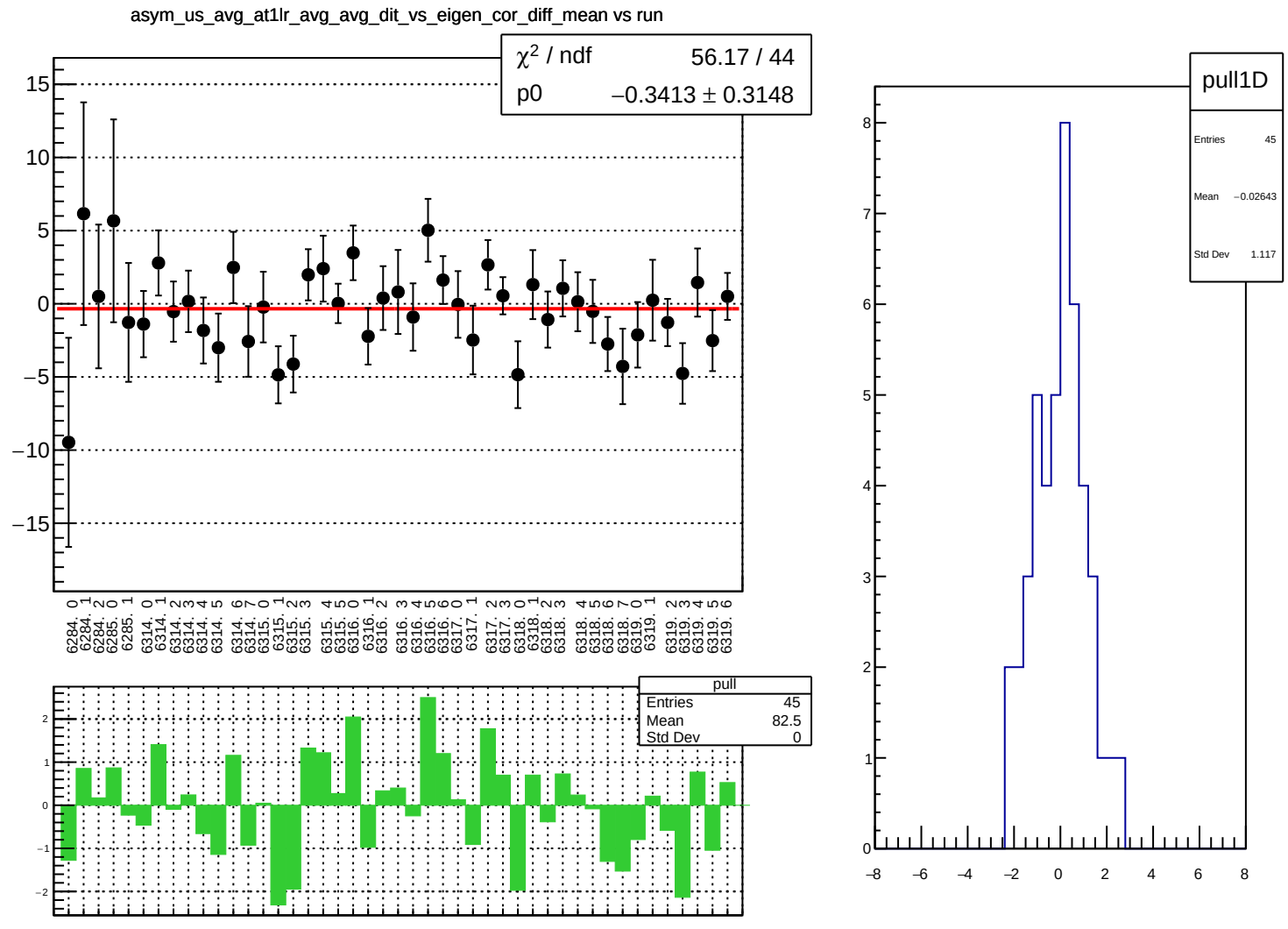
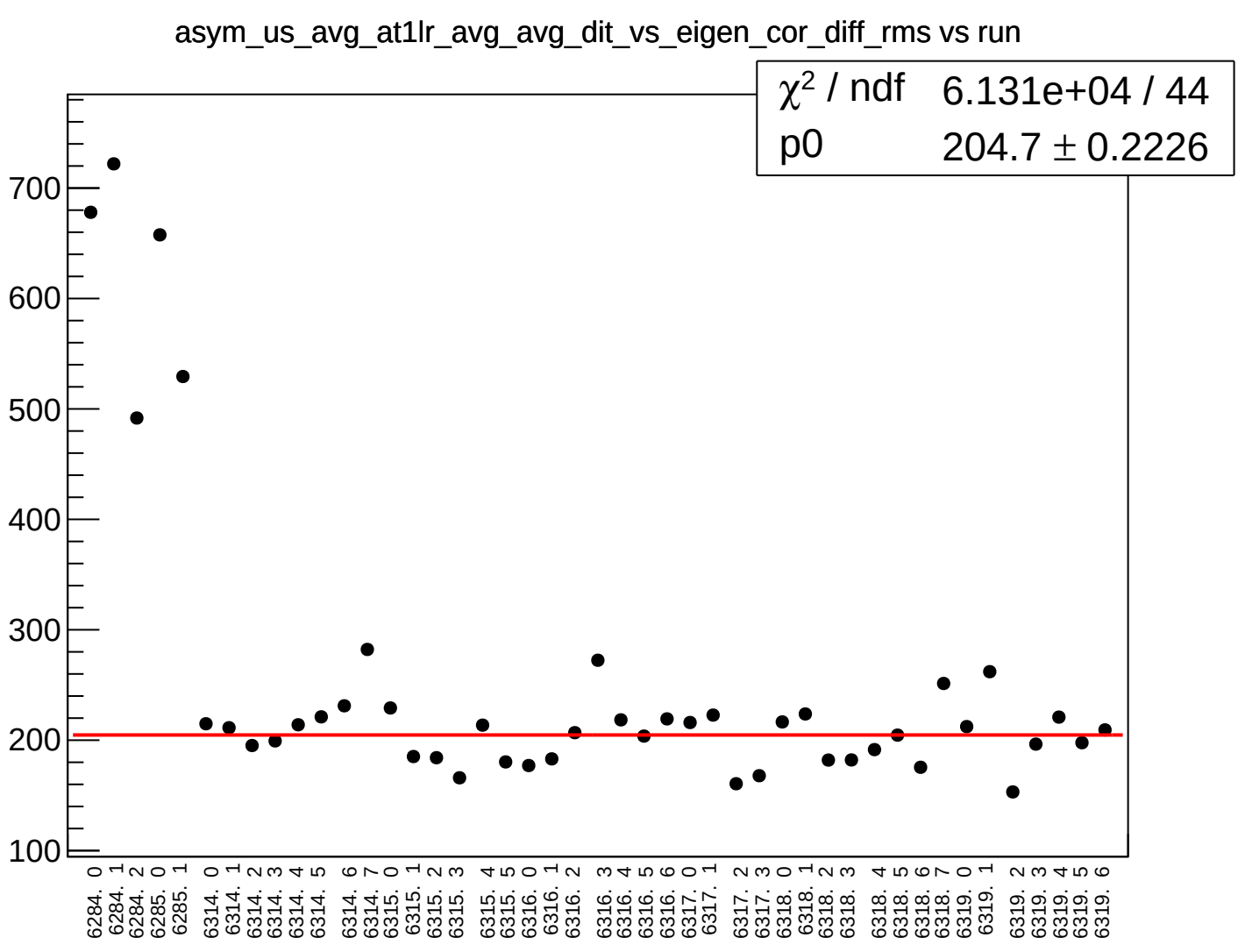
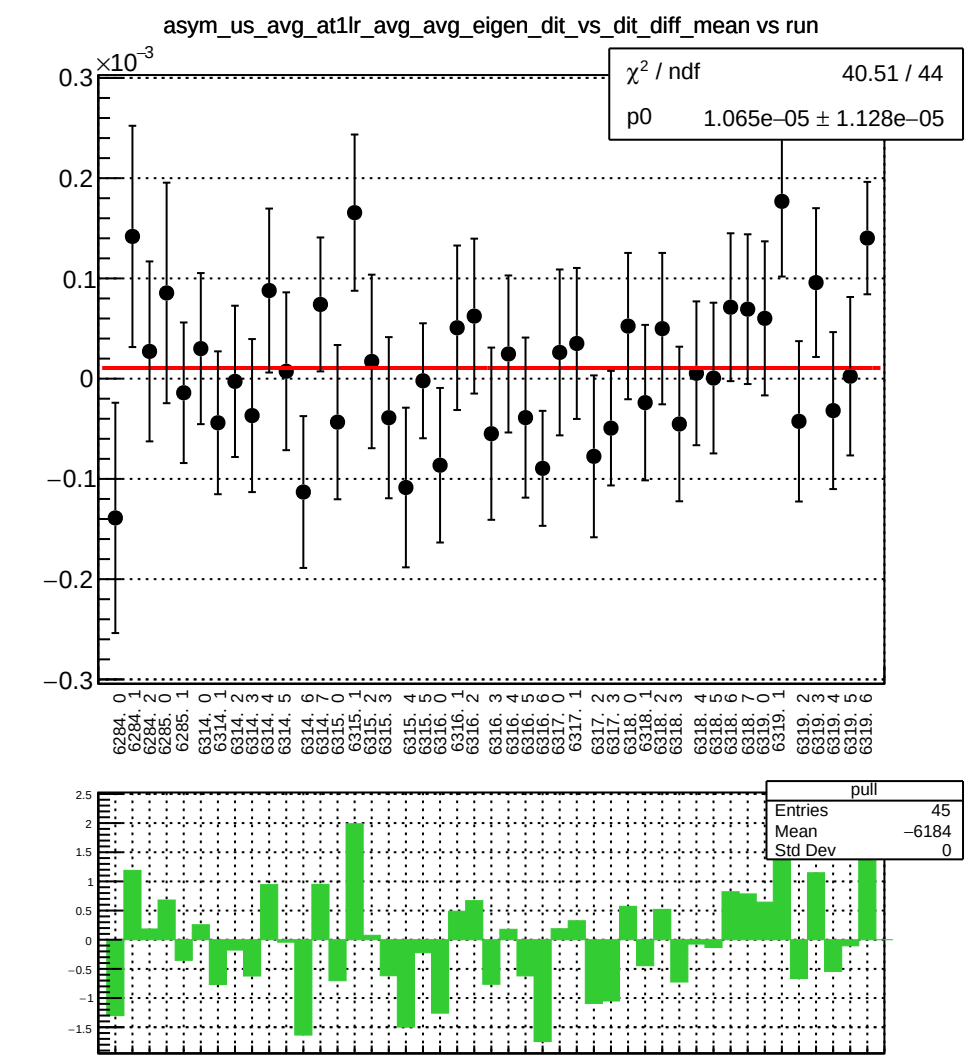
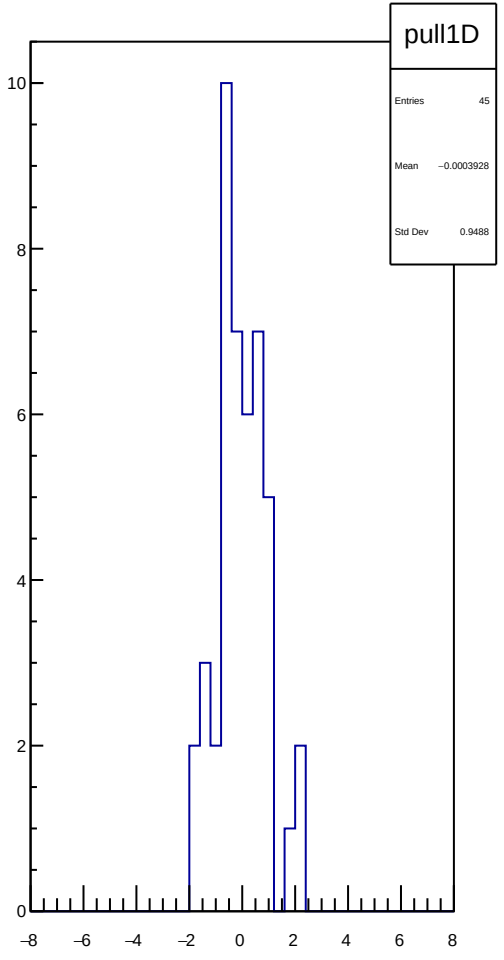
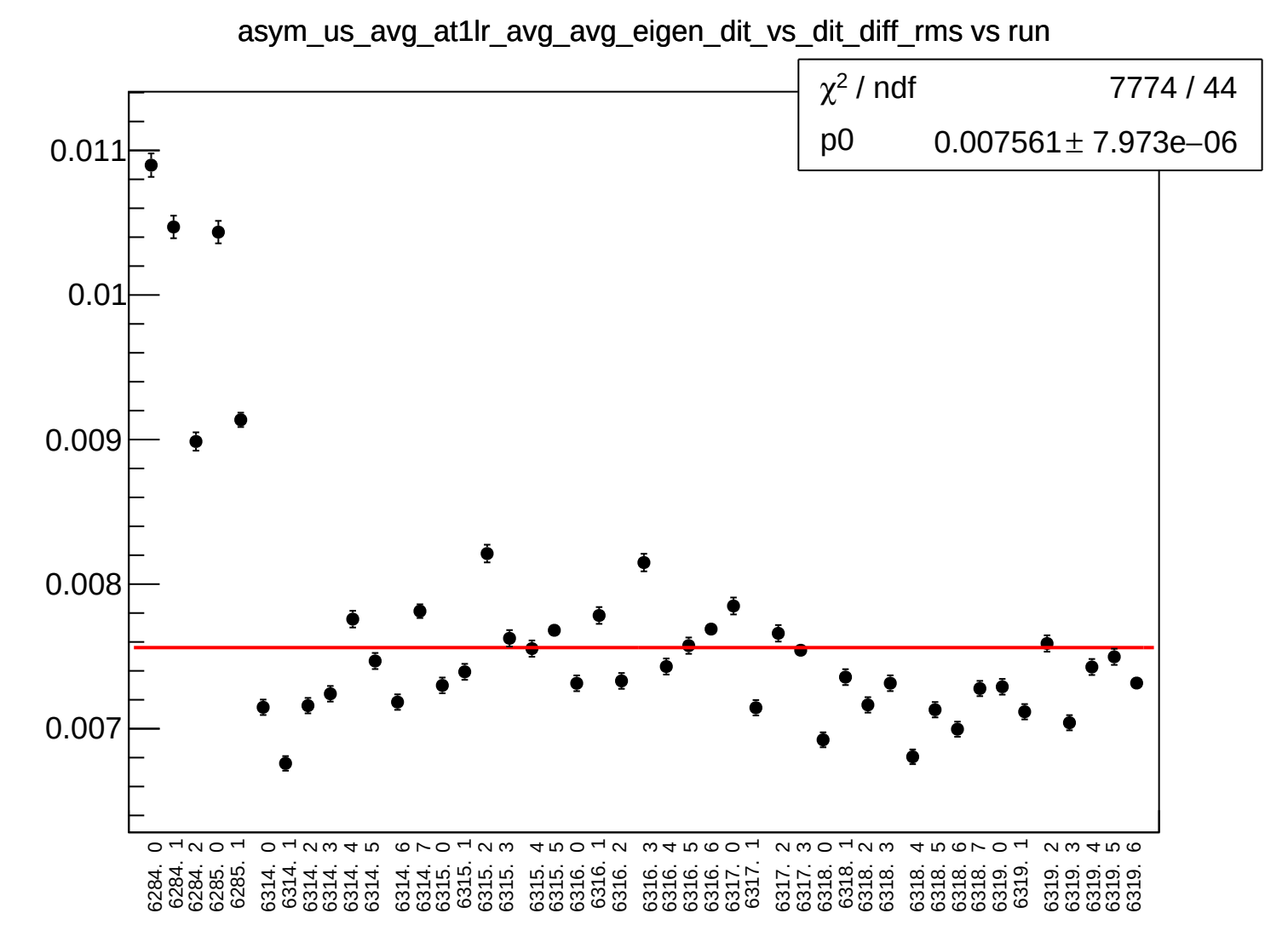
6319. 6


asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.17 / 44
p0 −0.3413 ± 0.3148
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 82.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02643
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.131e+04 / 44
p0 204.7 ± 0.2226
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.51 / 44
p0 1.065e−05 ± 1.128e−05
pull
Entries 45
Mean −6184
Std Dev 0


pull1D
Entries 45
Mean −0.0003928
Std Dev 0.9488


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7774 / 44
p0 0.007561 ± 7.973e−06
0.011
0.01
0.009
0.008
0.007
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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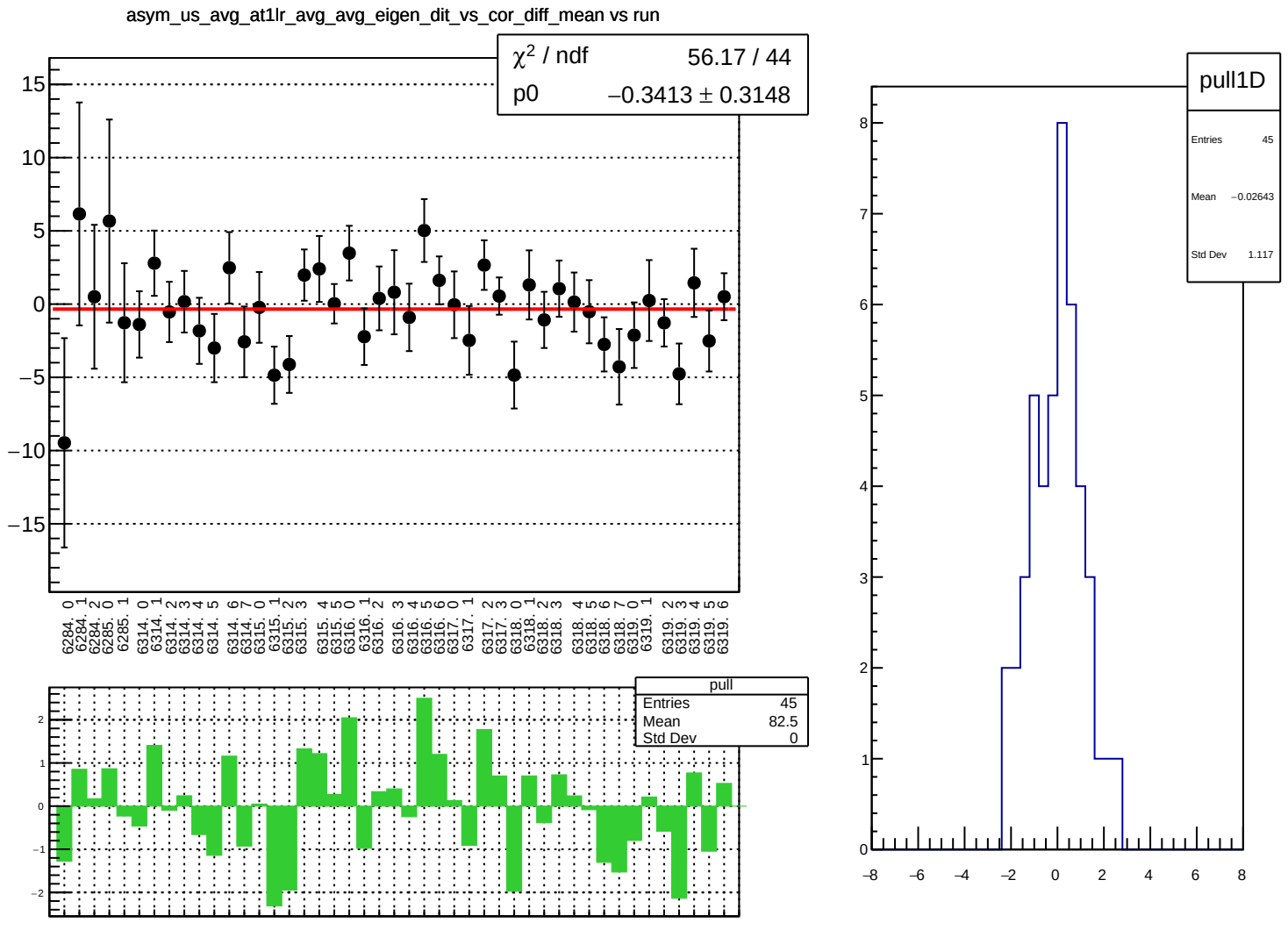
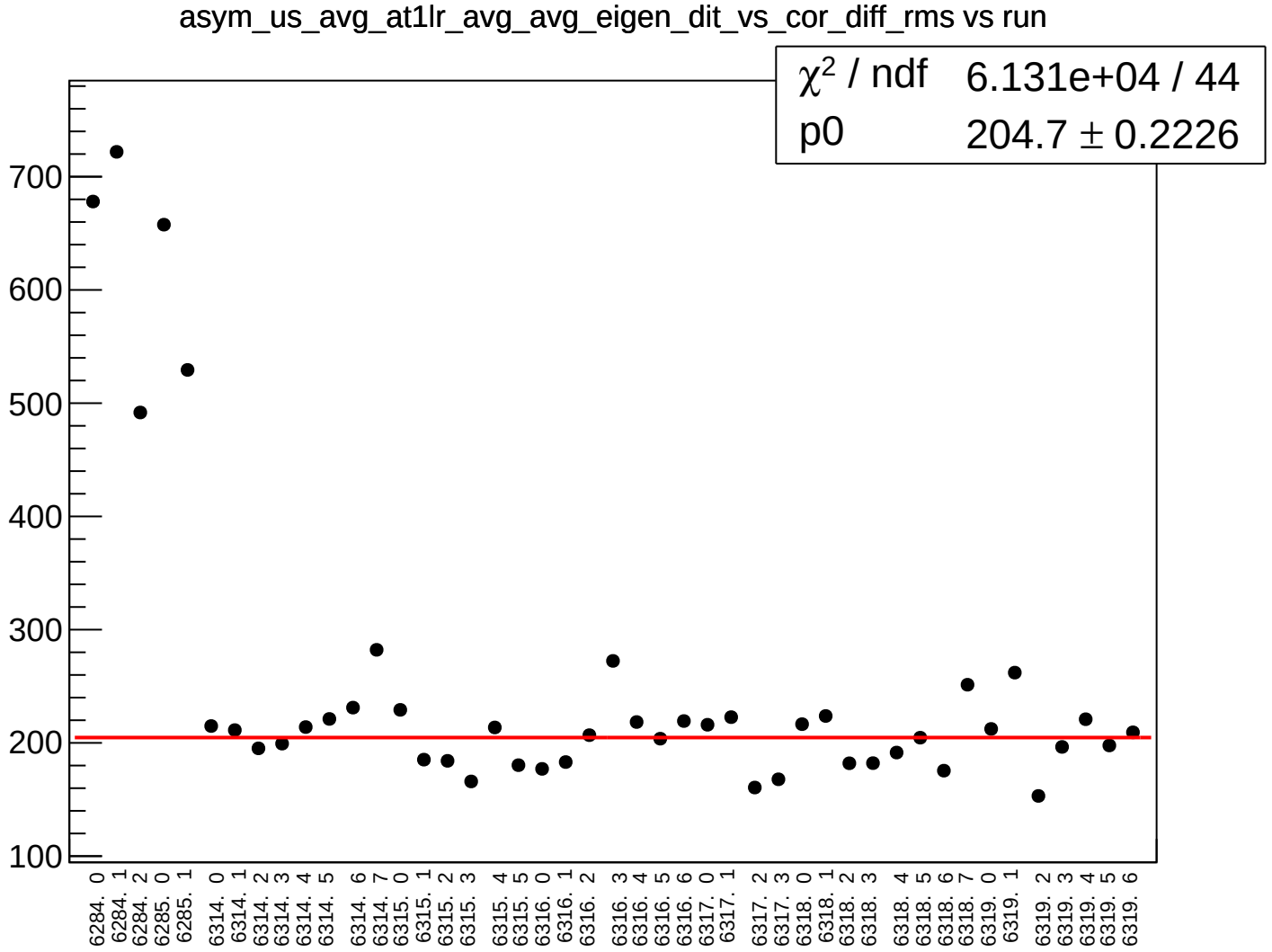
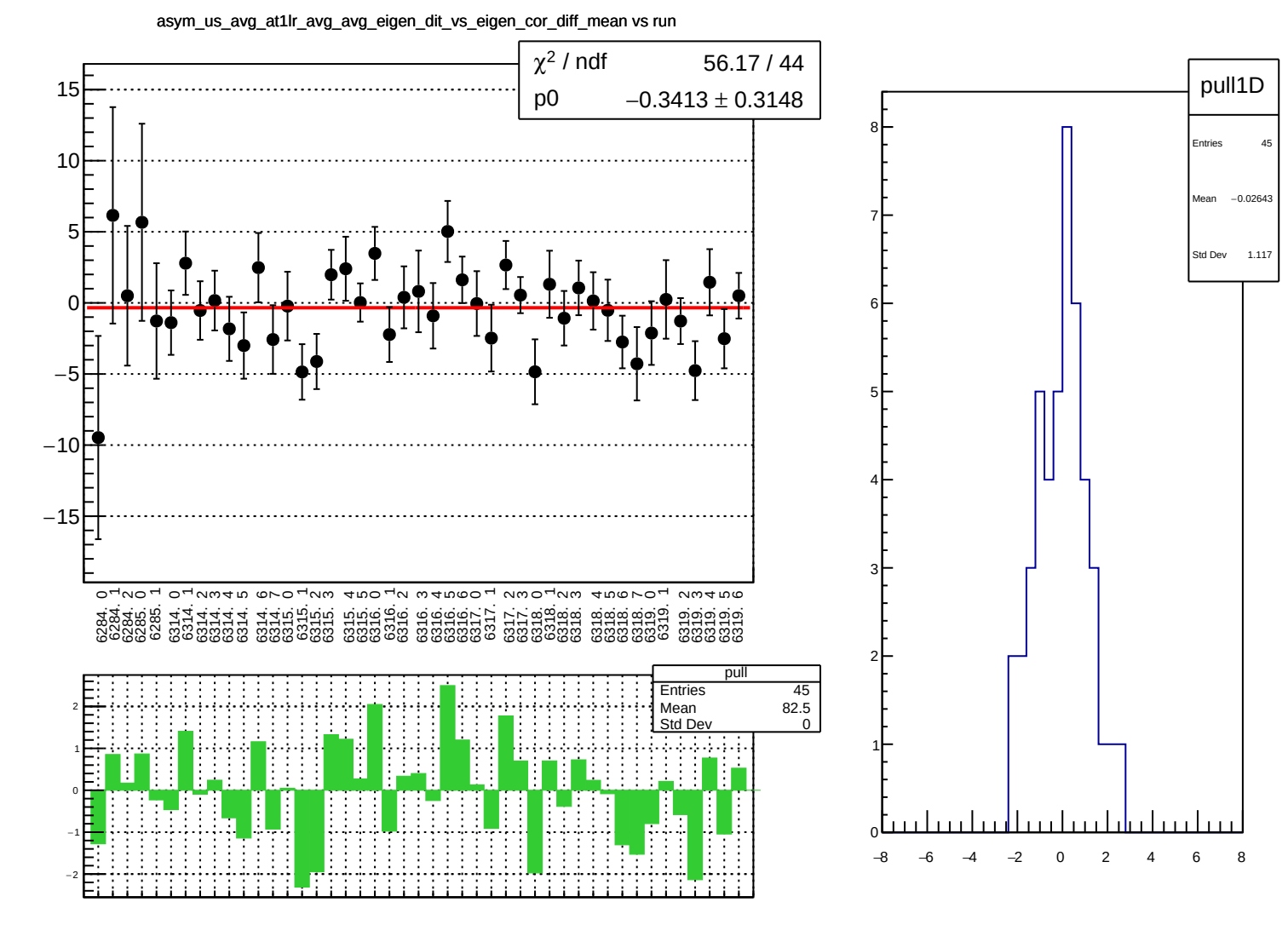
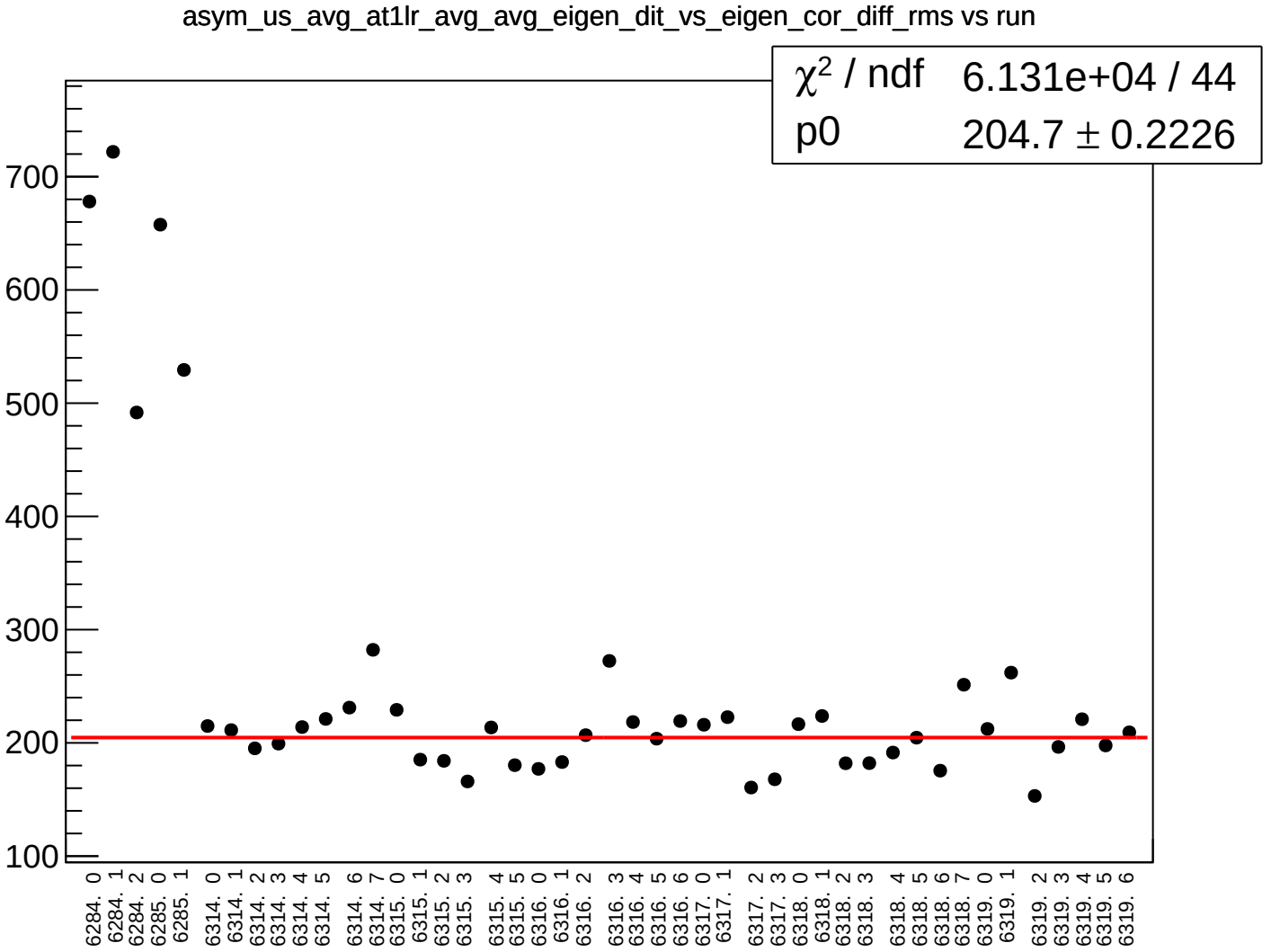
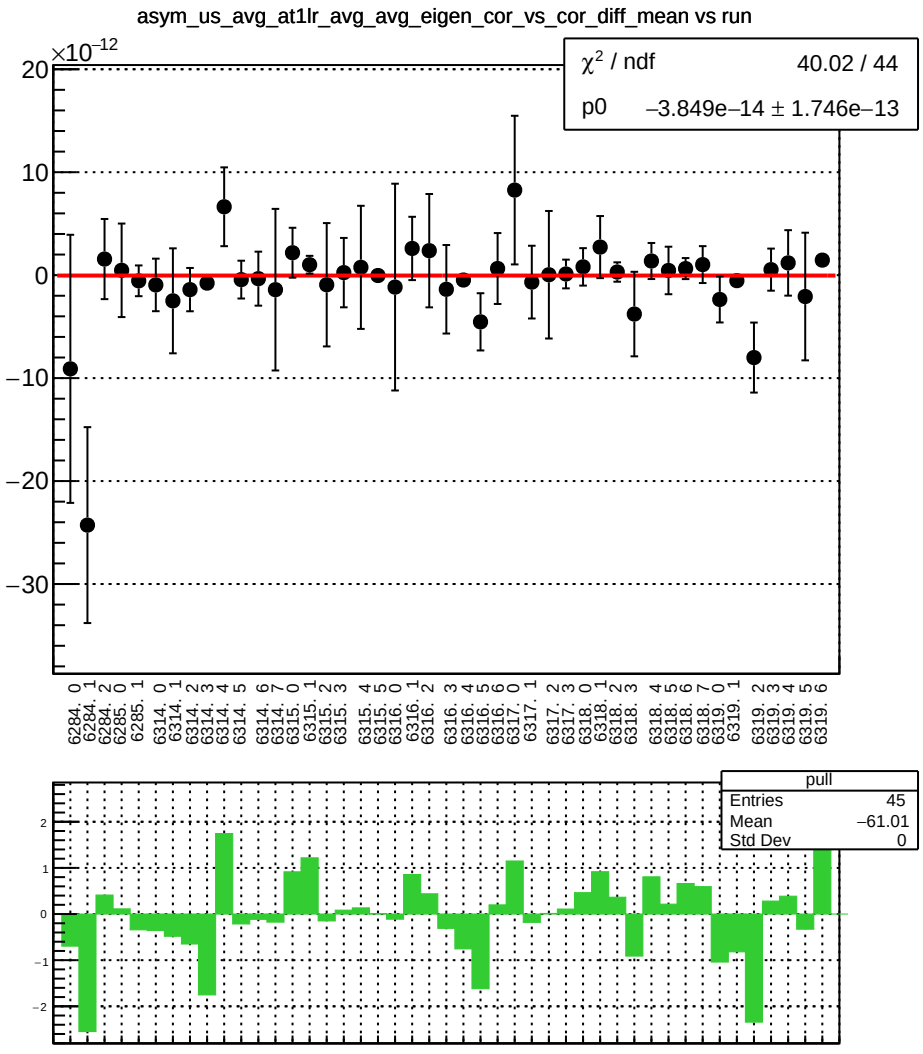
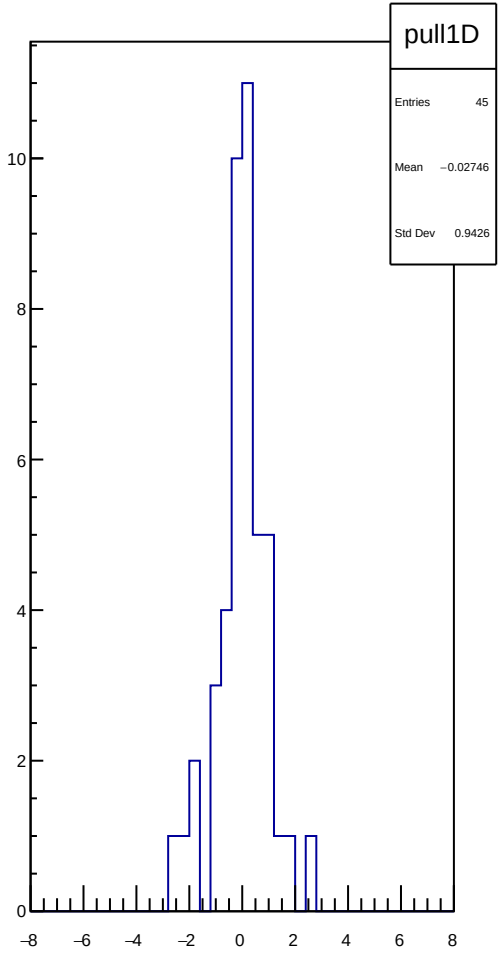

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.17 / 44
p0 −0.3413 ± 0.3148
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 82.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02643
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

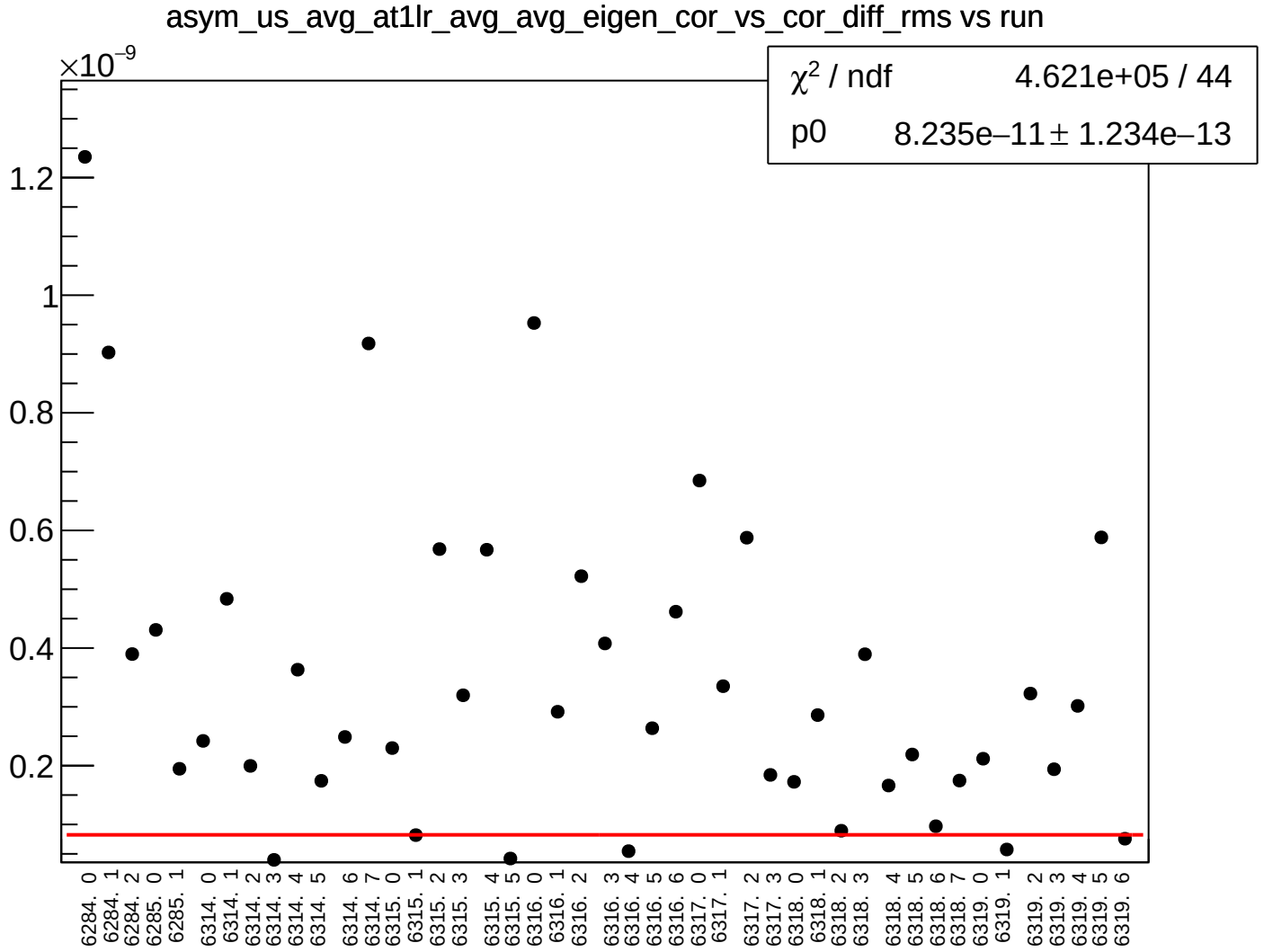

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.131e+04 / 44
p0 204.7 ± 0.2226
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

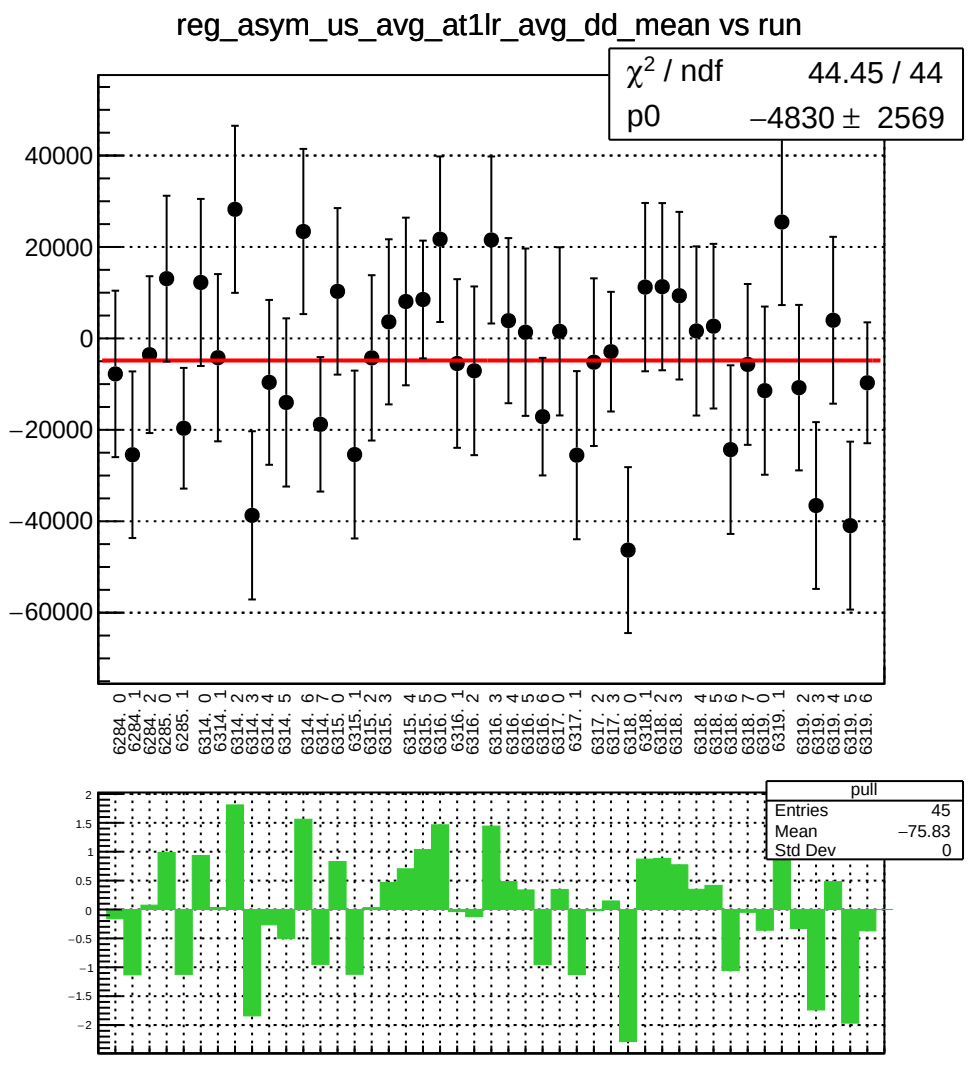

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.17 / 44
p0 −0.3413 ± 0.3148
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 82.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02643
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

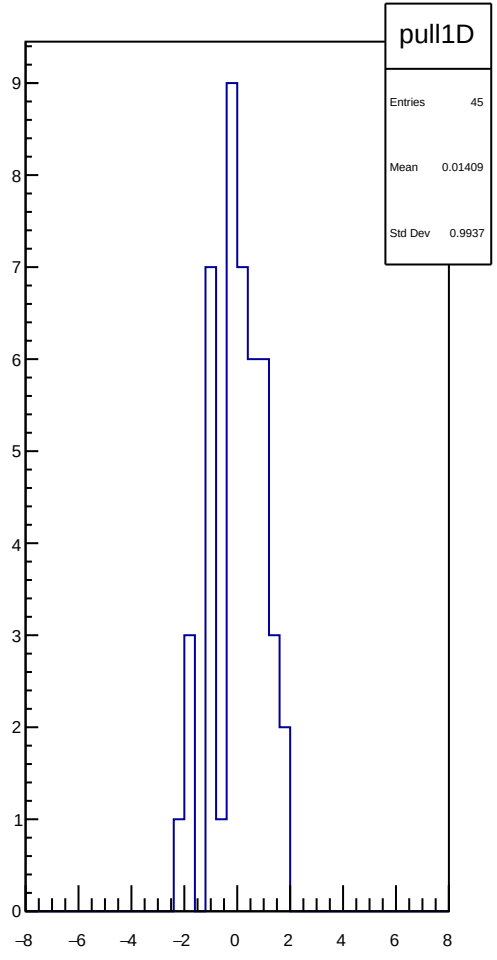

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.131e+04 / 44
p0 204.7 ± 0.2226
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

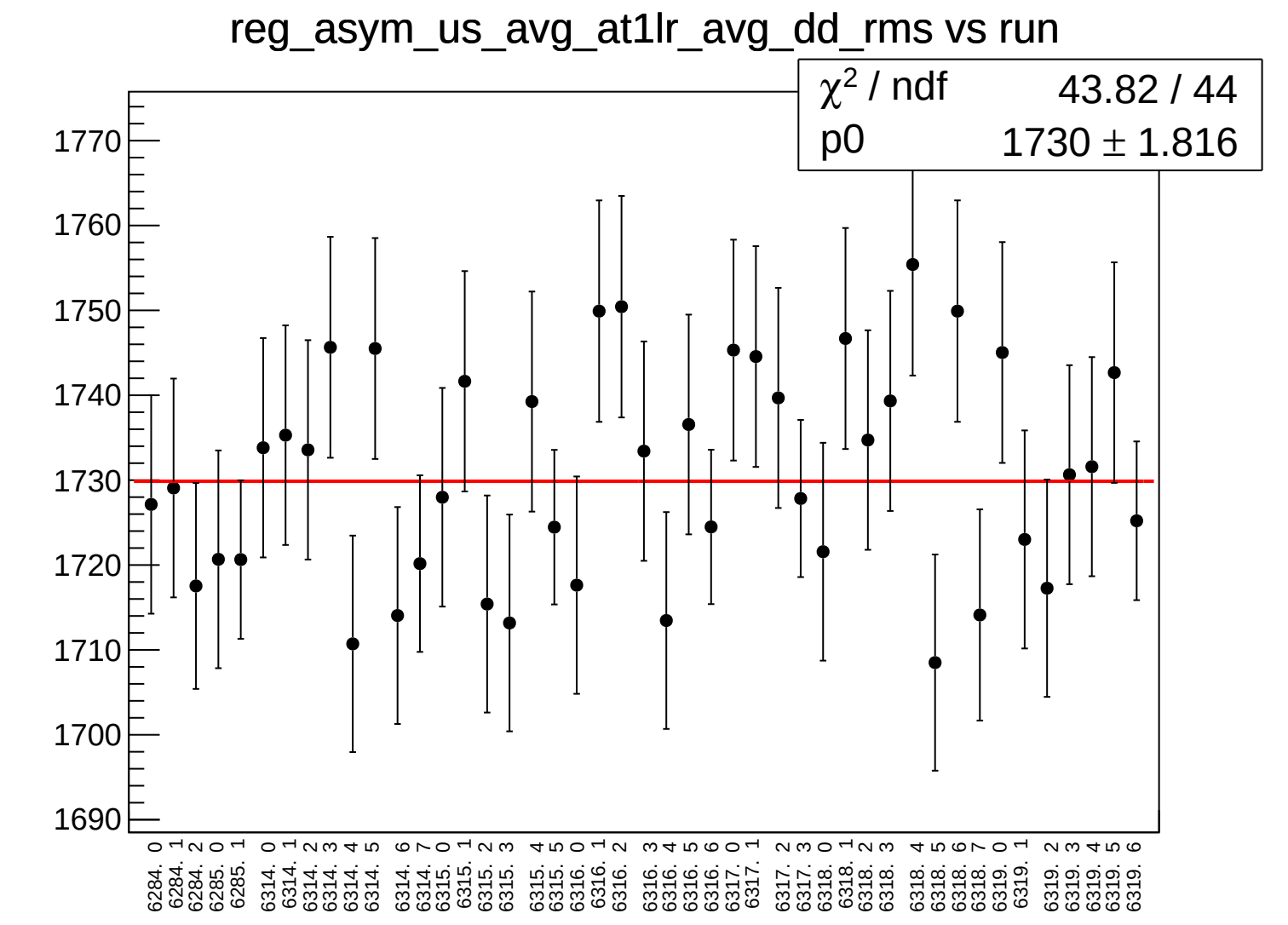

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.02 / 44
p0 −3.849e−14 ± 1.746e−13
pull
Entries 45
Mean −61.01
Std Dev 0

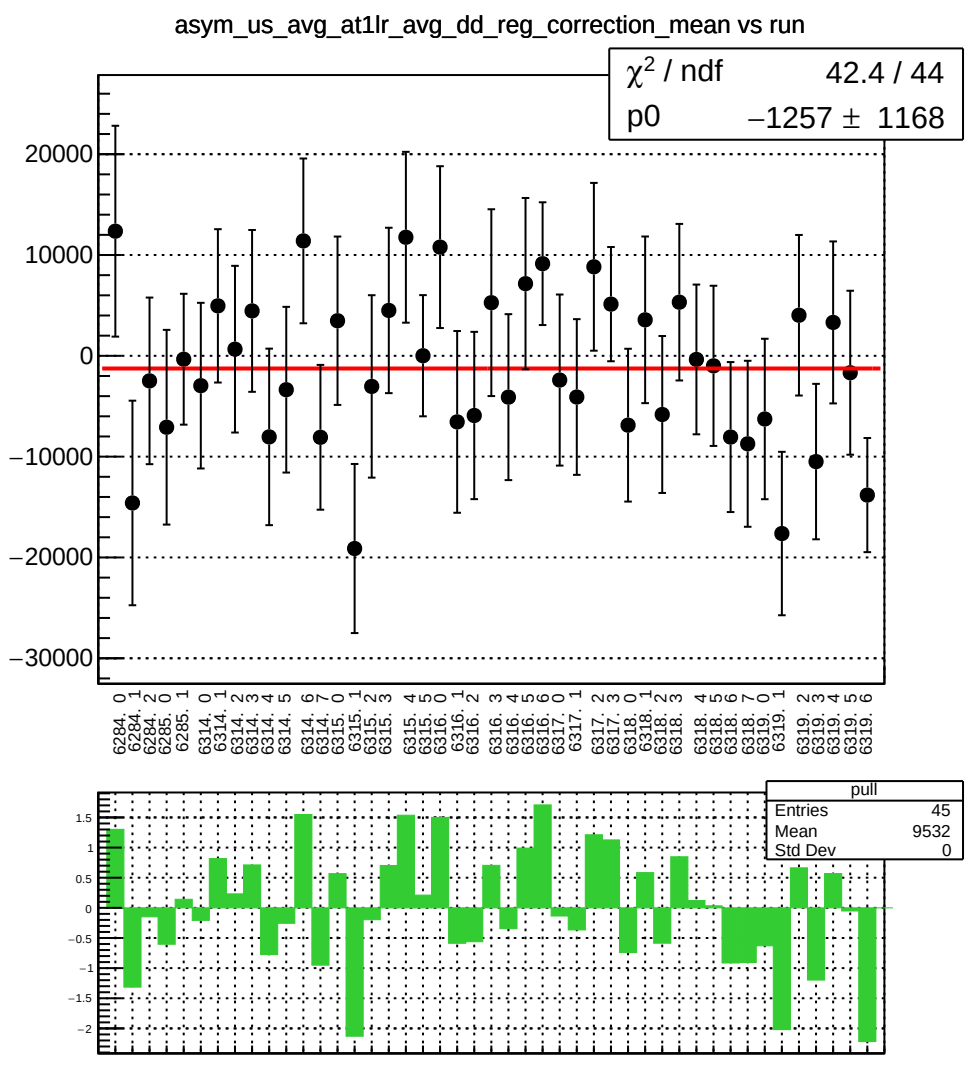

pull1D
Entries 45
Mean −0.02746
Std Dev 0.9426

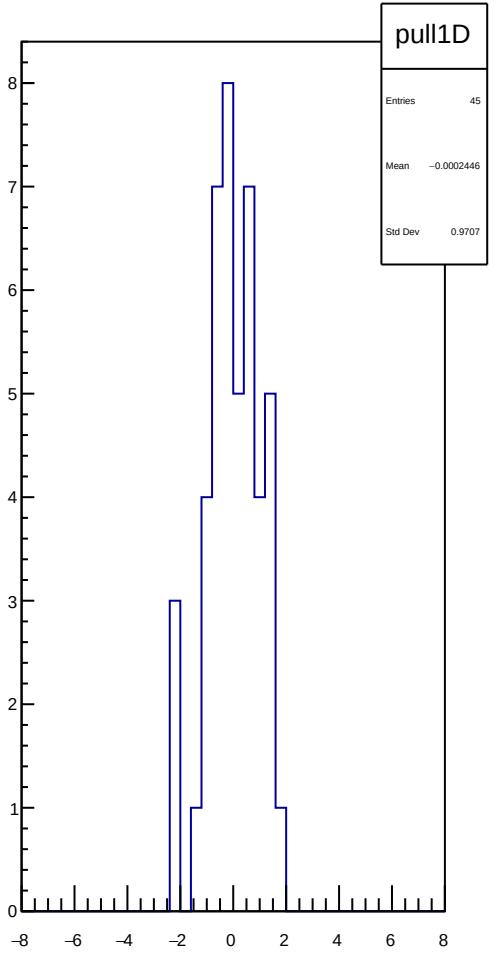

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.621e+05 / 44
p0 8.235e−11 ± 1.234e−13
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

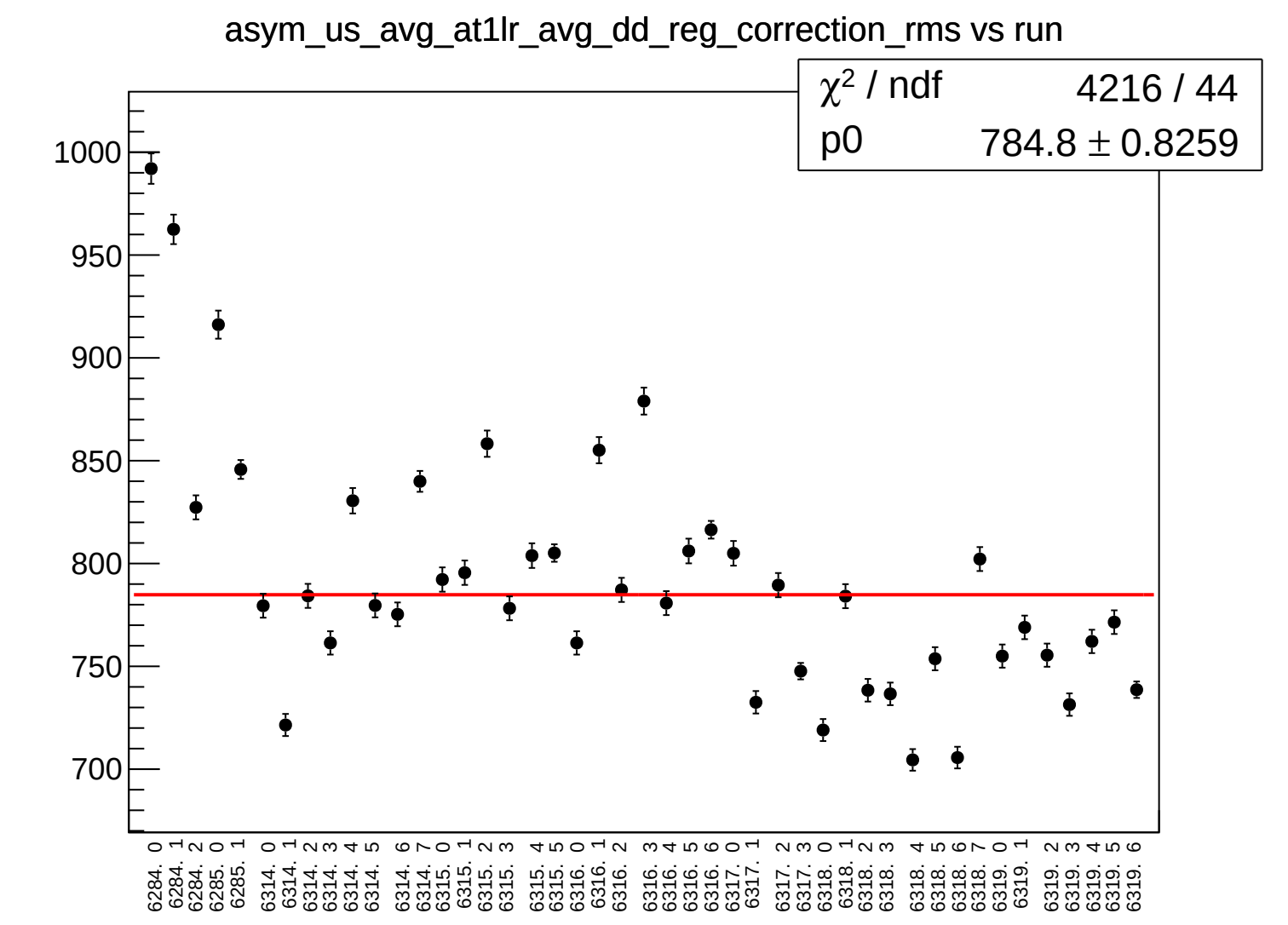

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.45 / 44
p0 −4830 ± 2569
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −75.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

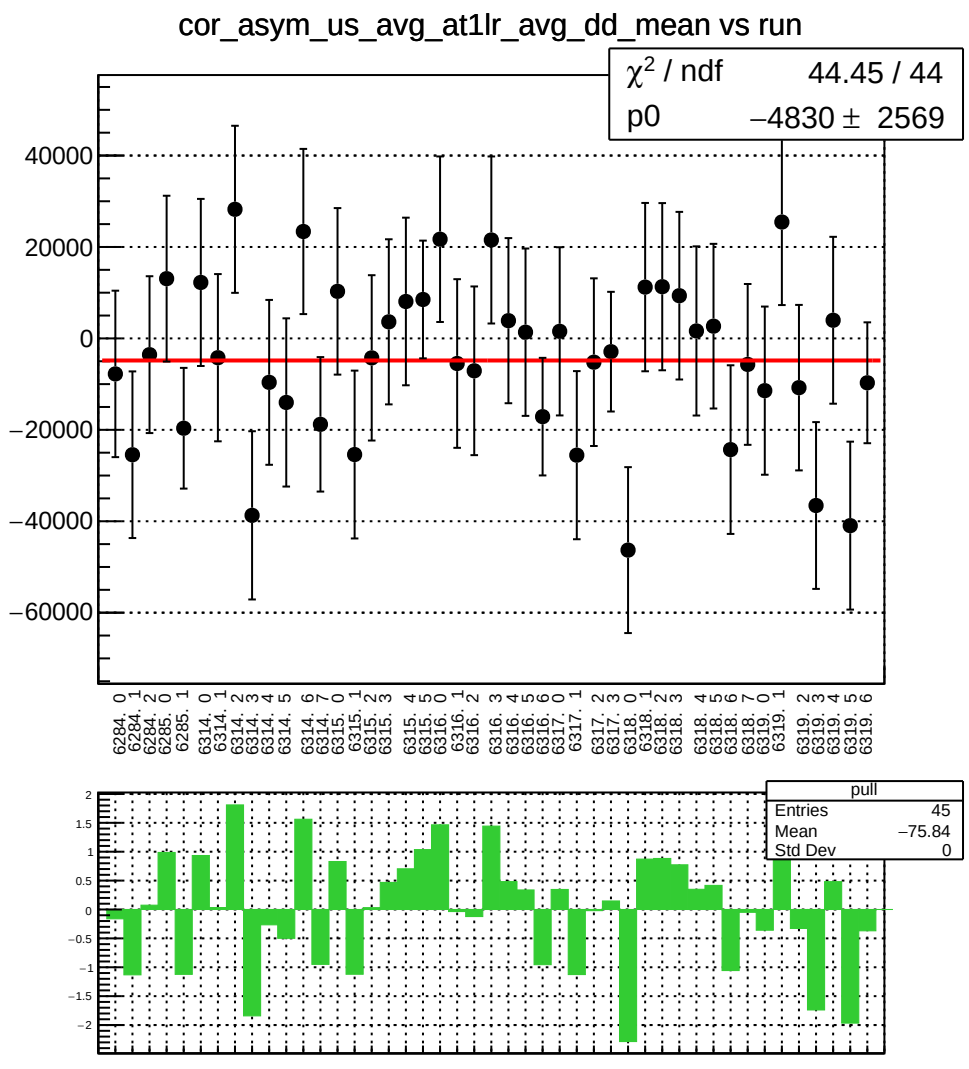

pull1D
Entries 45
Mean 0.01409
Std Dev 0.9937
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

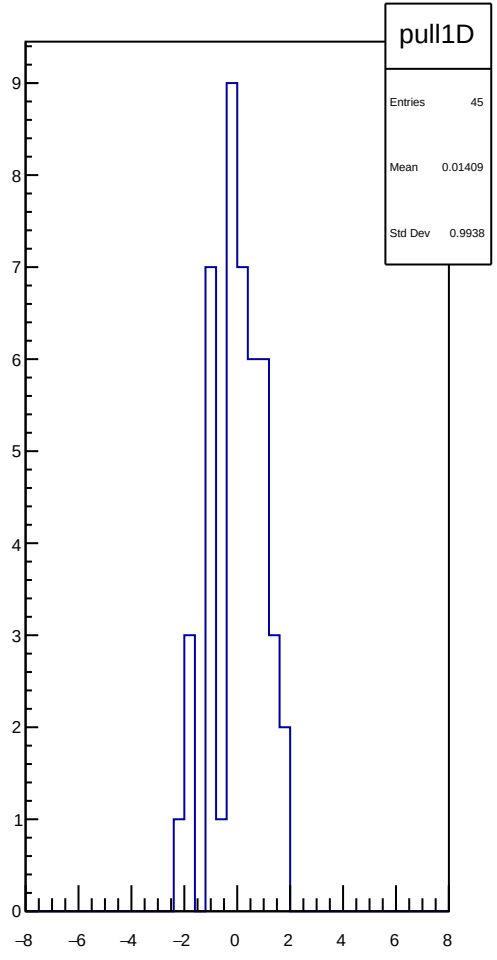

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 43.82 / 44
p0 1730 ± 1.816
1770
1760
1750
1740
1730
1720
1710
1700
1690
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

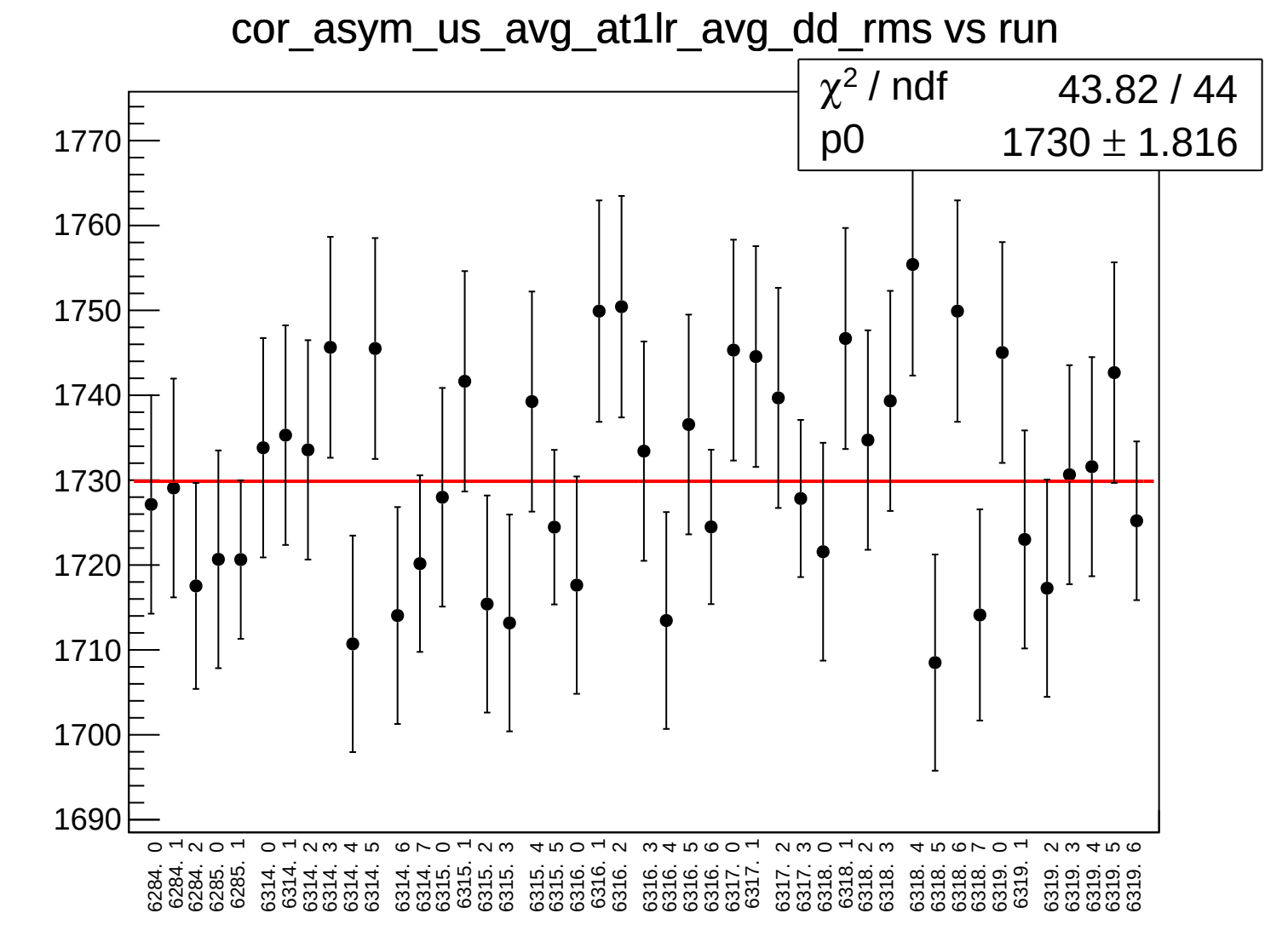

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 42.4 / 44
p0 −1257 ± 1168
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 9532
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0002446
Std Dev 0.9707
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4216 / 44
p0 784.8 ± 0.8259
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.45 / 44
p0 −4830 ± 2569
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −75.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01409
Std Dev 0.9938
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 43.82 / 44
p0 1730 ± 1.816
1770
1760
1750
1740
1730
1720
1710
1700
1690
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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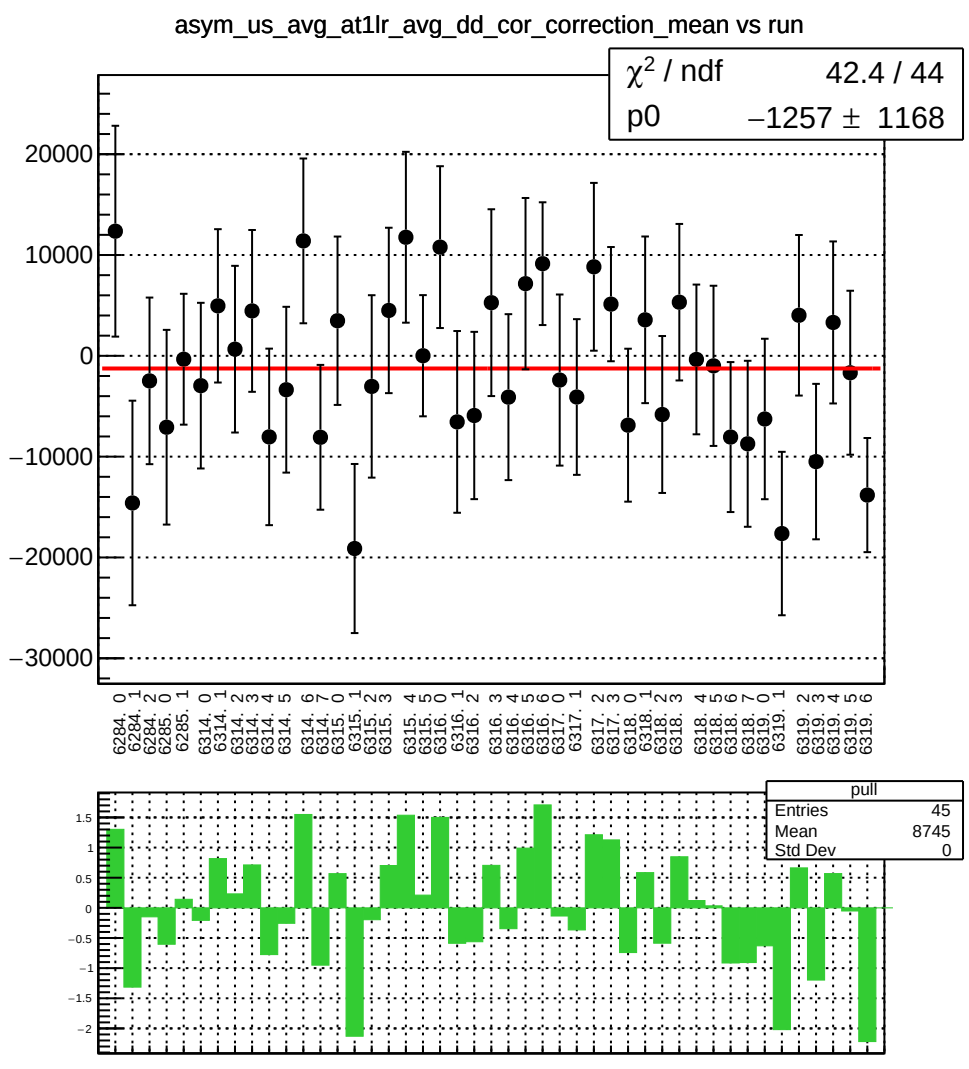
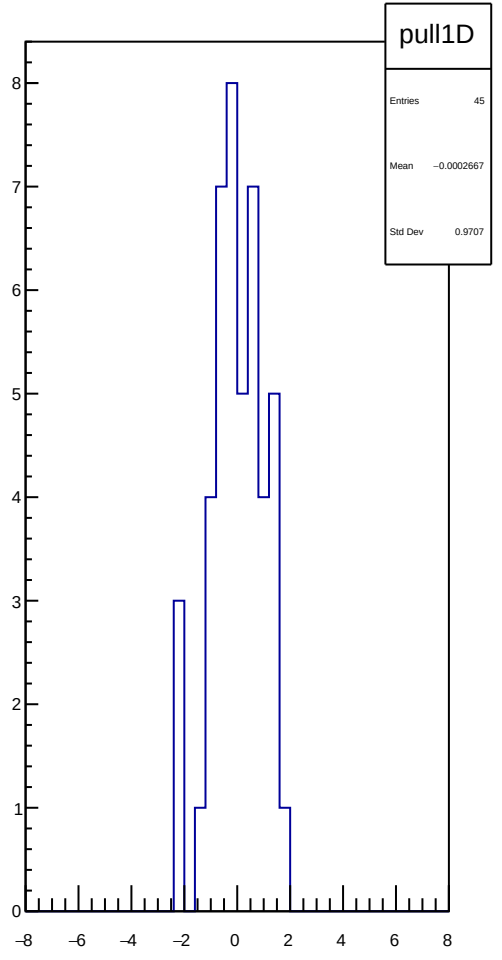
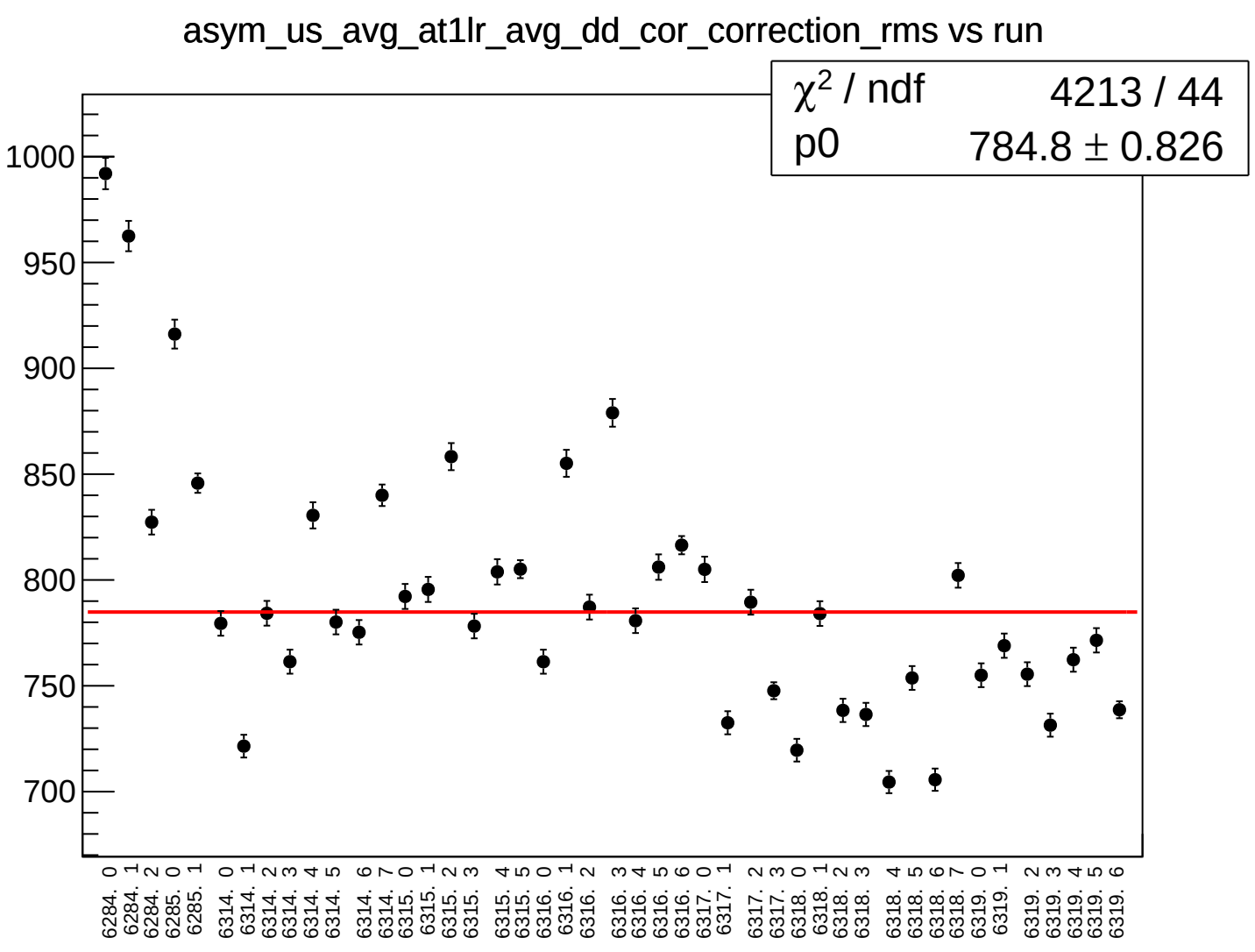
6319. 6


asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 42.4 / 44
p0 −1257 ± 1168
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8745
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0002667
Std Dev 0.9707
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4213 / 44
p0 784.8 ± 0.826
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
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6316. 2
6316. 3
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6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 7
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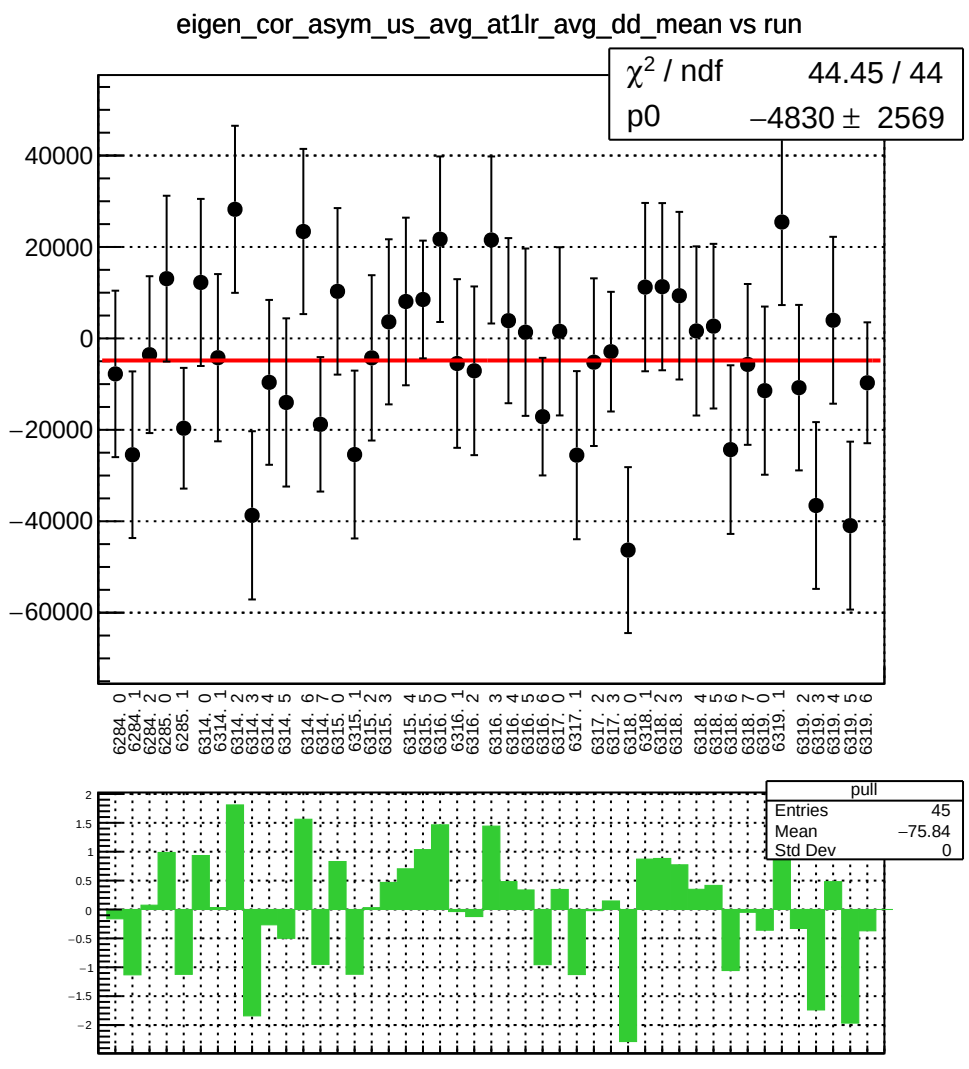
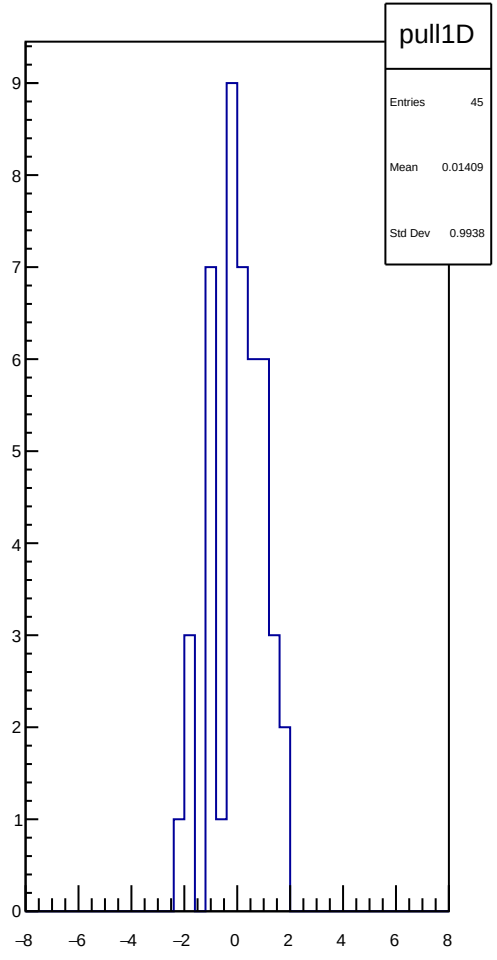
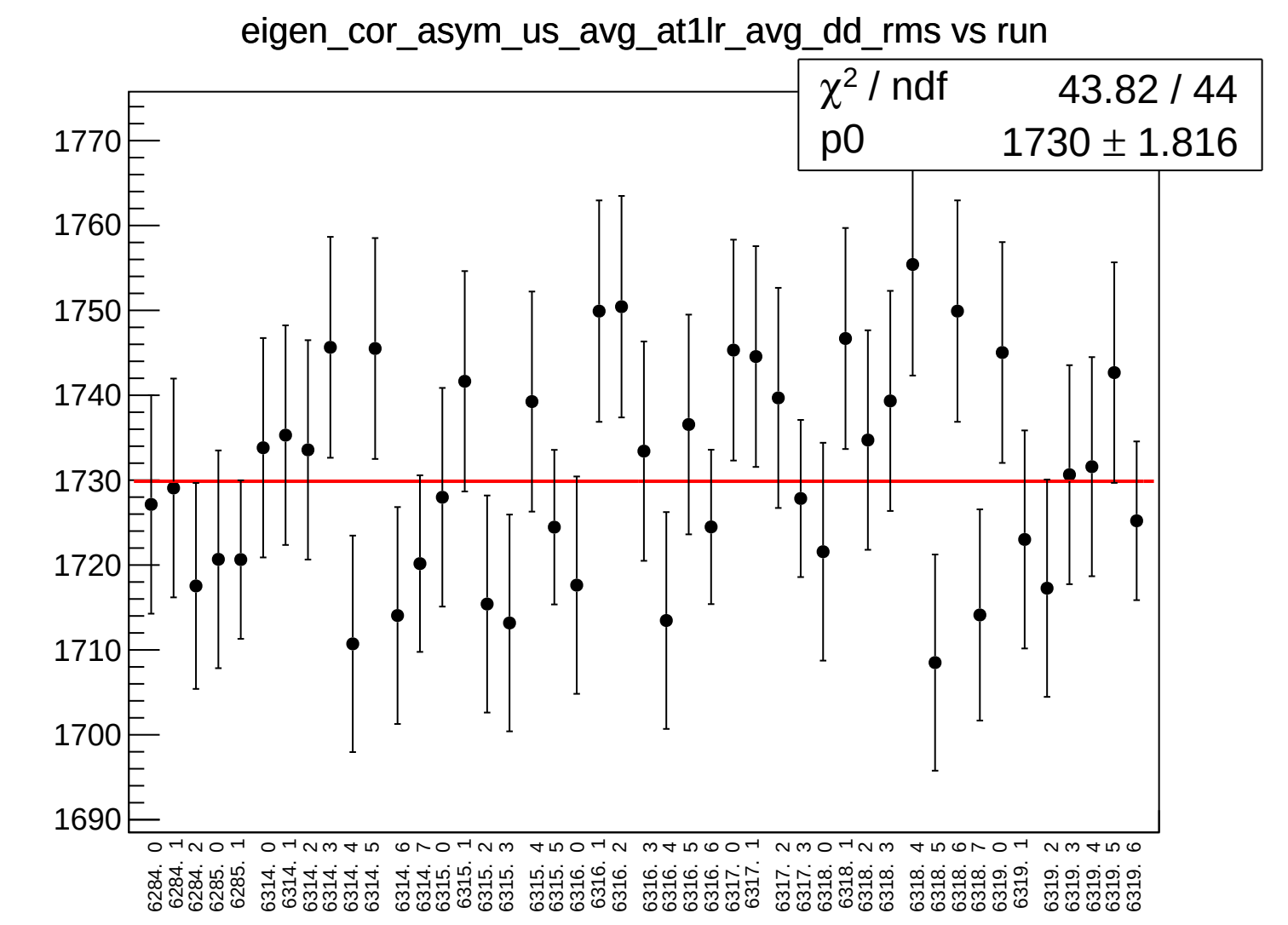

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.45 / 44
p0 −4830 ± 2569
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −75.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01409
Std Dev 0.9938
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 43.82 / 44
p0 1730 ± 1.816
1770
1760
1750
1740
1730
1720
1710
1700
1690
6284. 0
6284. 1
6284. 2
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6315. 2
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6316. 0
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6316. 2
6316. 3
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6317. 0
6317. 1
6317. 2
6317. 3
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6318. 1
6318. 2
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6319. 0
6319. 1
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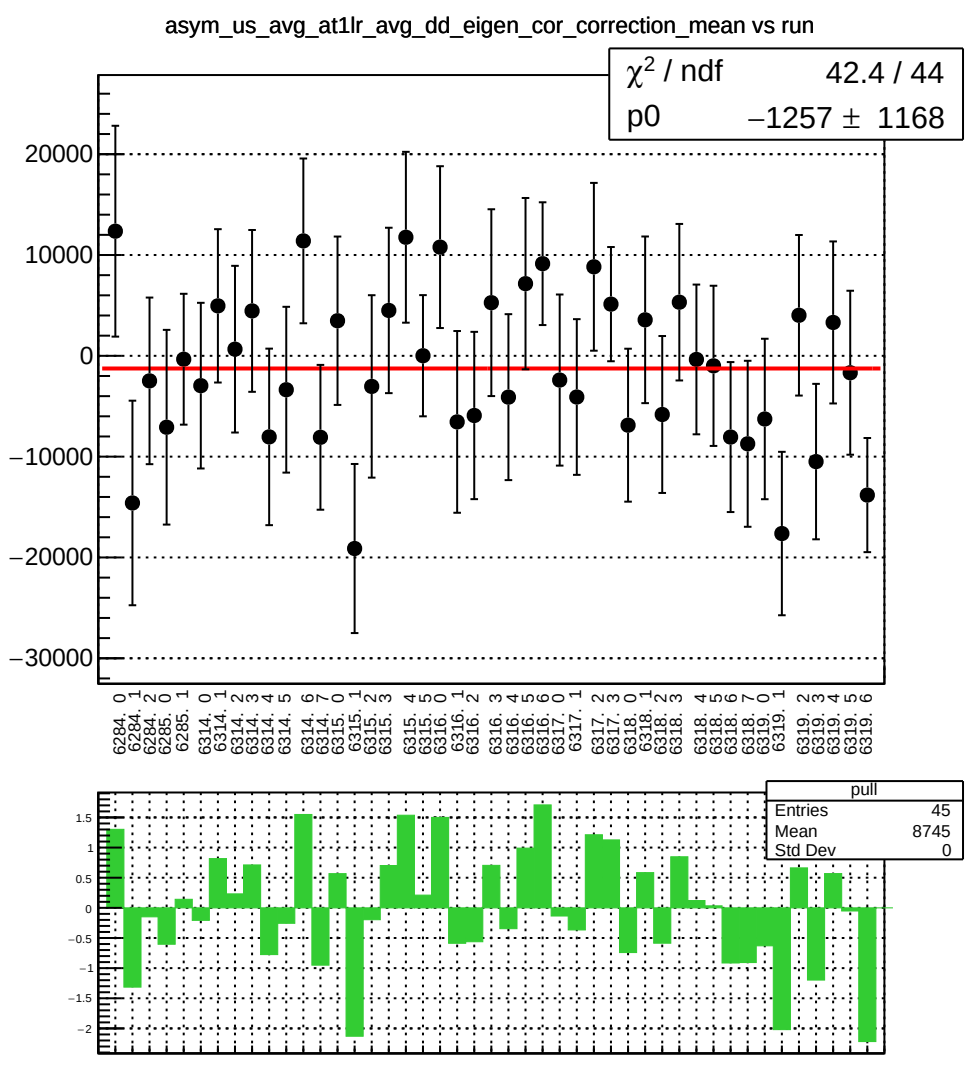
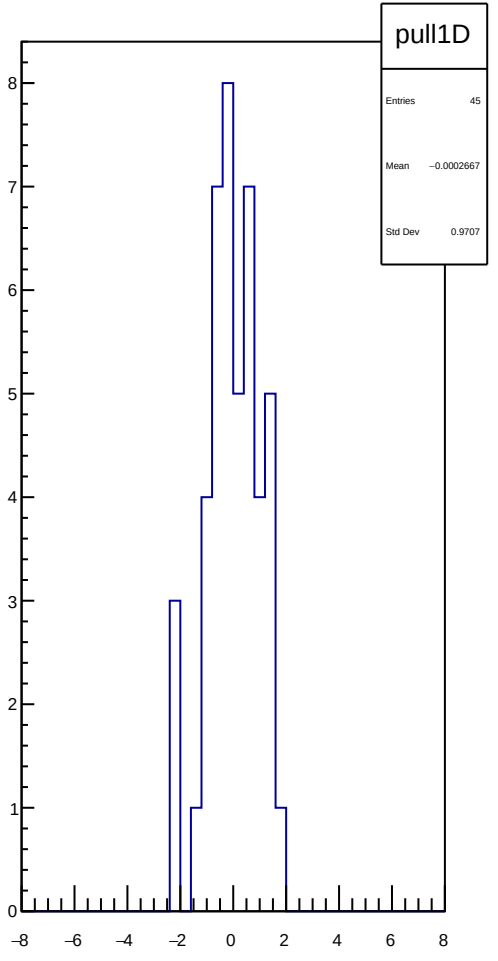
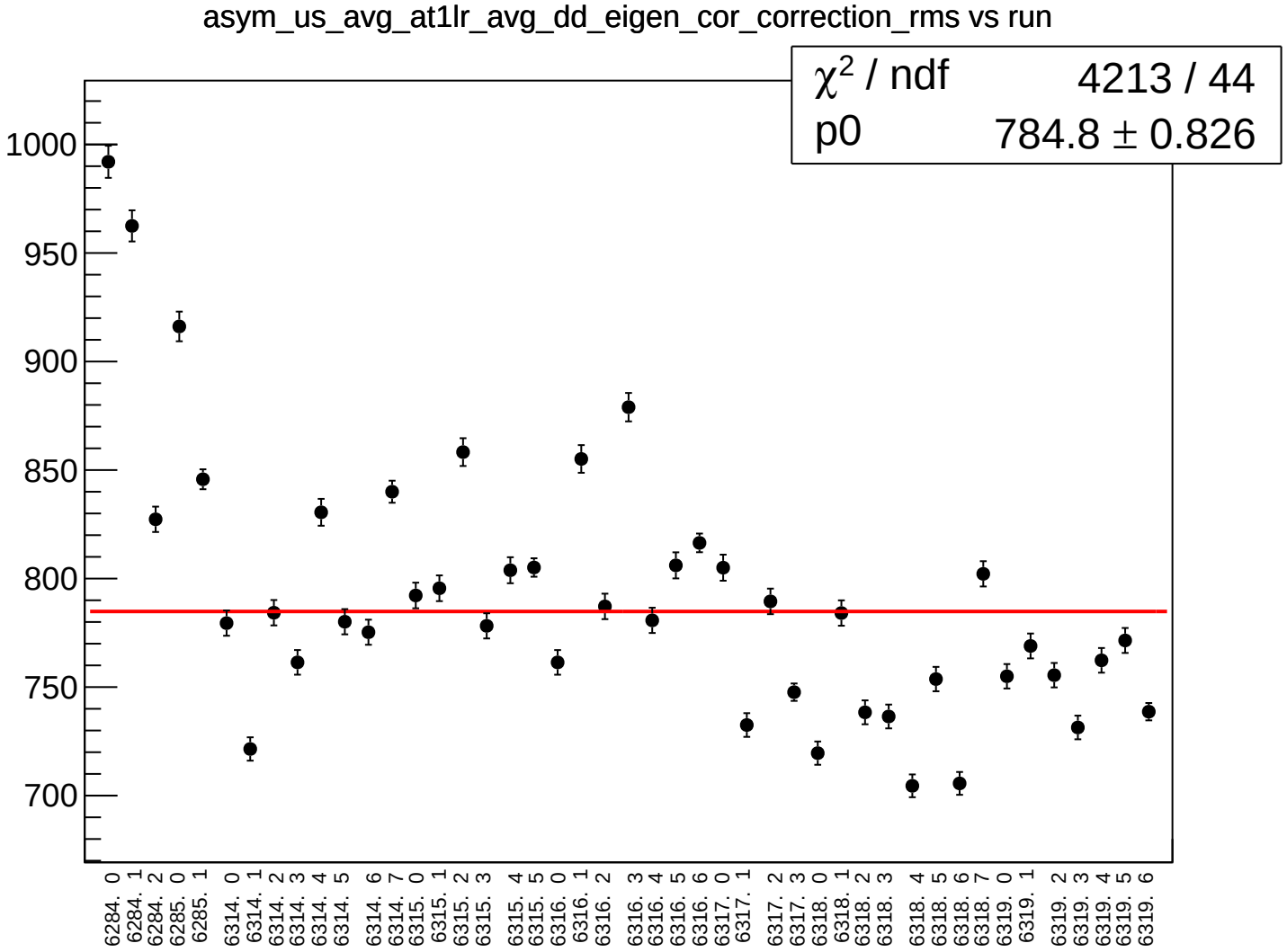
6319. 6


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.4 / 44
p0 −1257 ± 1168
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8745
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0002667
Std Dev 0.9707
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4213 / 44
p0 784.8 ± 0.826
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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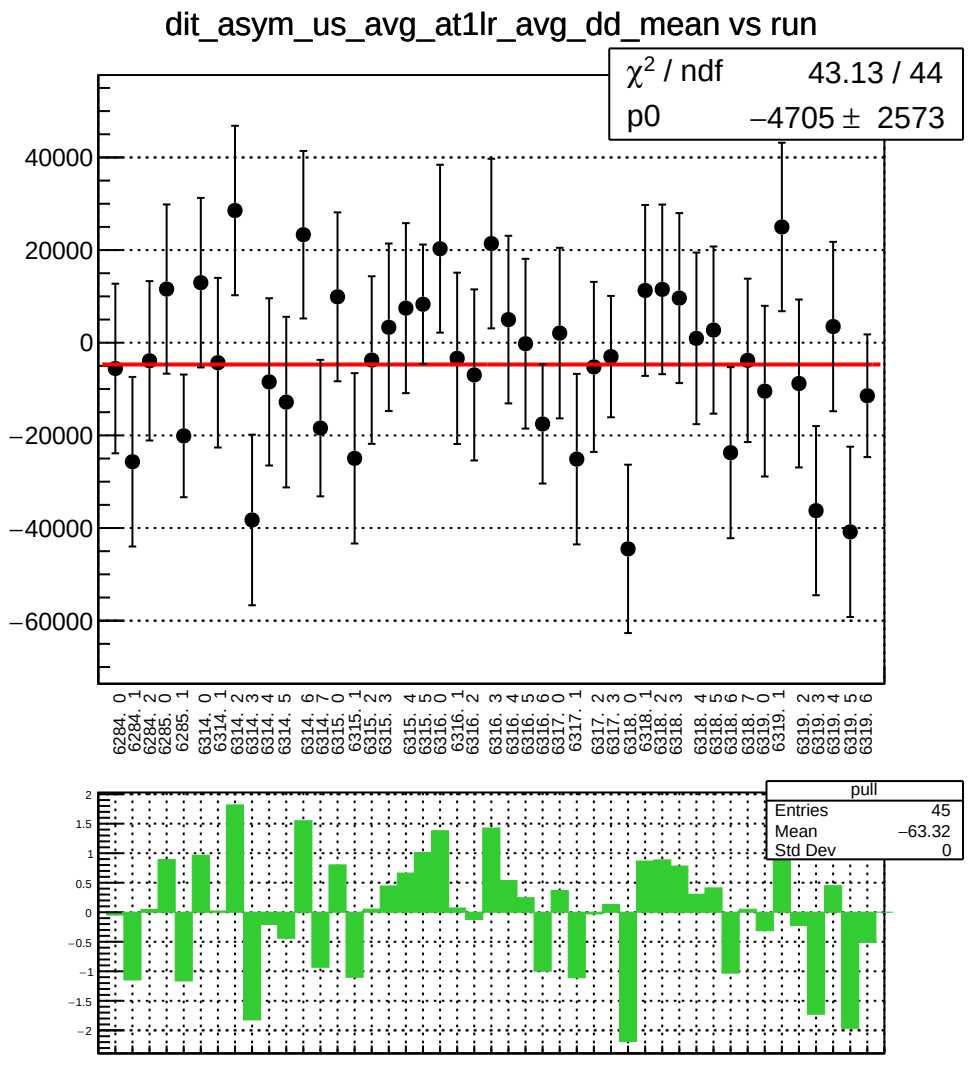
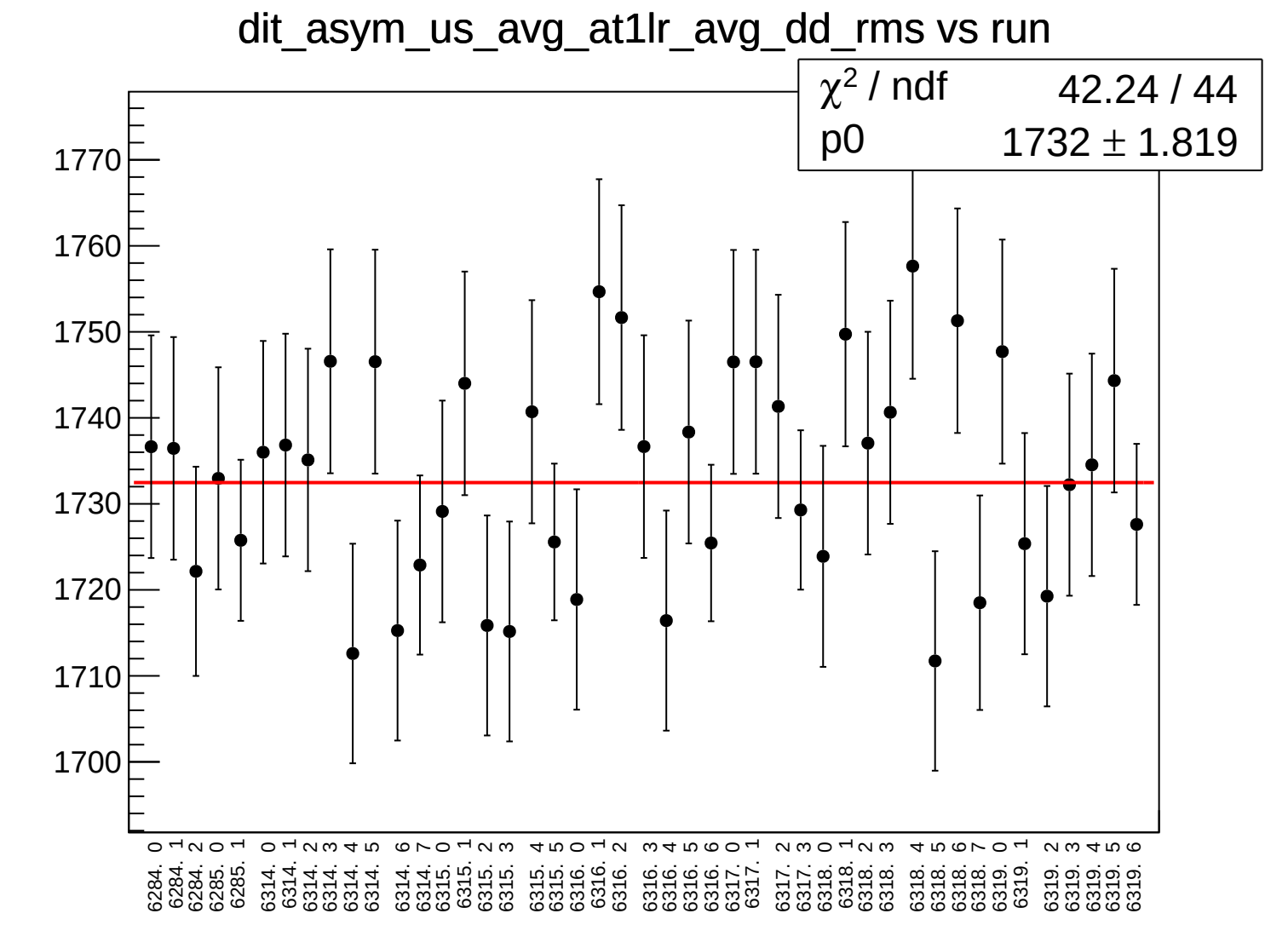
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 43.13 / 44
p0 −4705 ± 2573
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −63.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01628
Std Dev 0.9788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 42.24 / 44
p0 1732 ± 1.819
1770
1760
1750
1740
1730
1720
1710
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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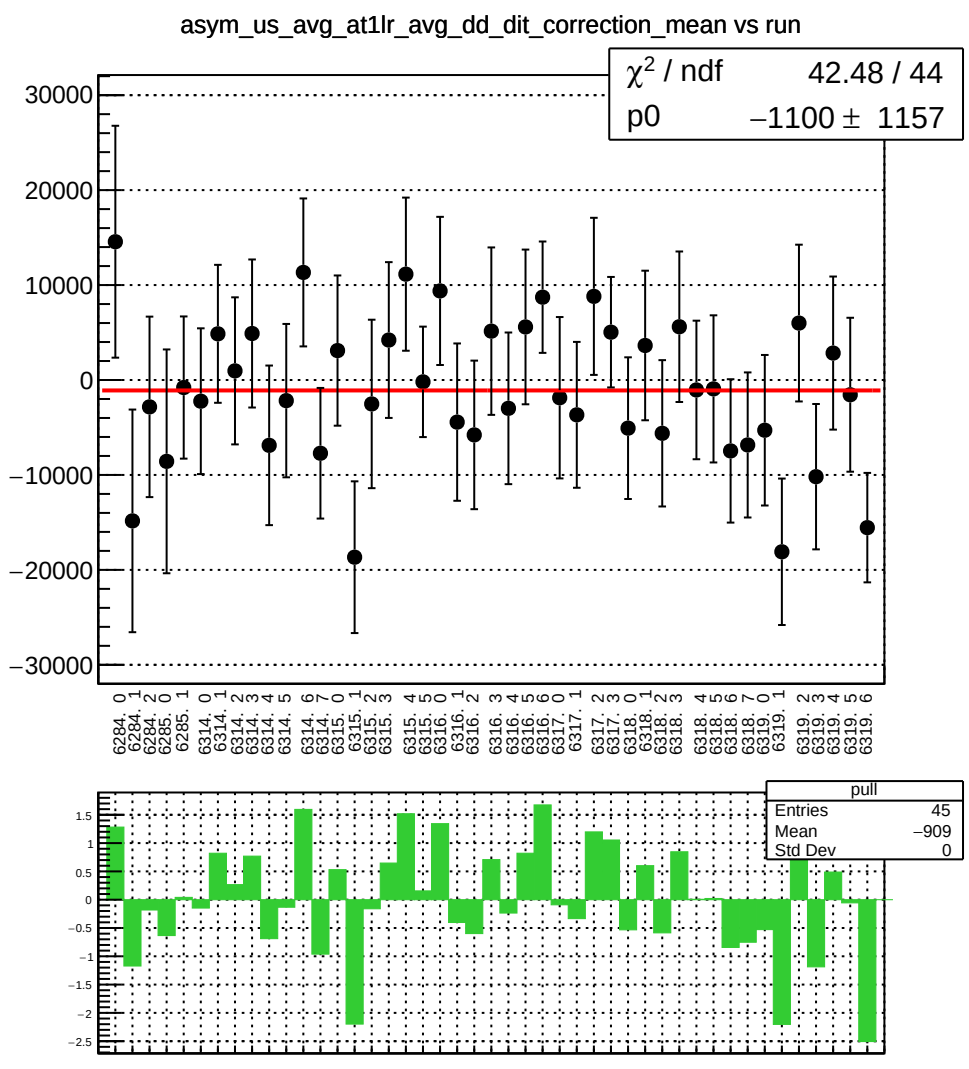
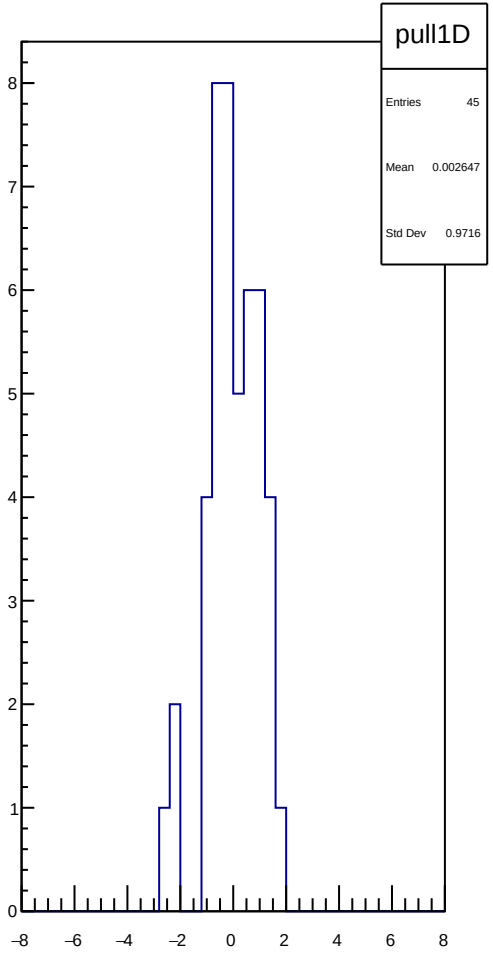

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 42.48 / 44
p0 −1100 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −909
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002647
Std Dev 0.9716
8
7
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5
4
3
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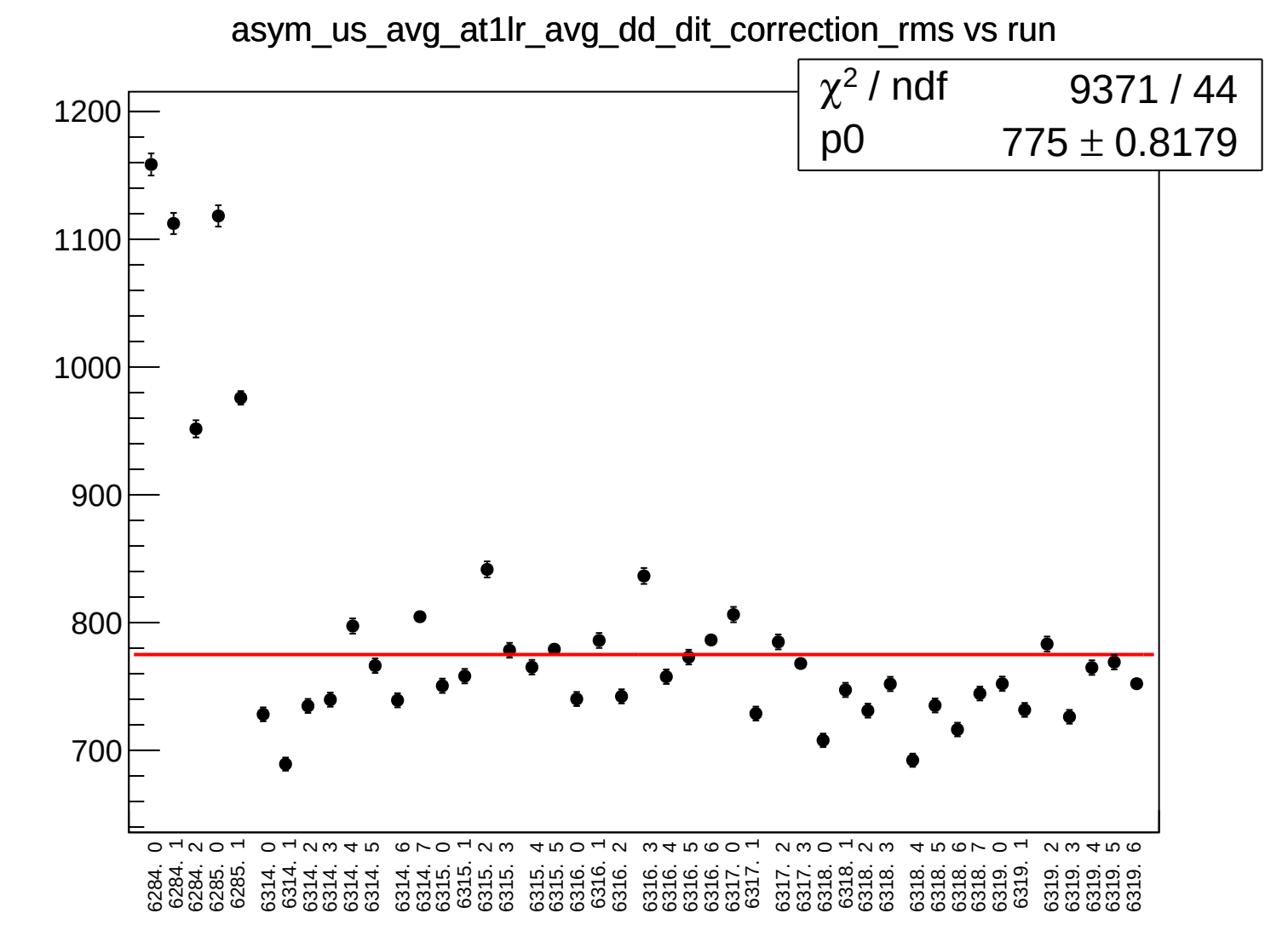
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 9371 / 44
p0 775 ± 0.8179
1200
1100
1000
900
800
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 3
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6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6319. 2
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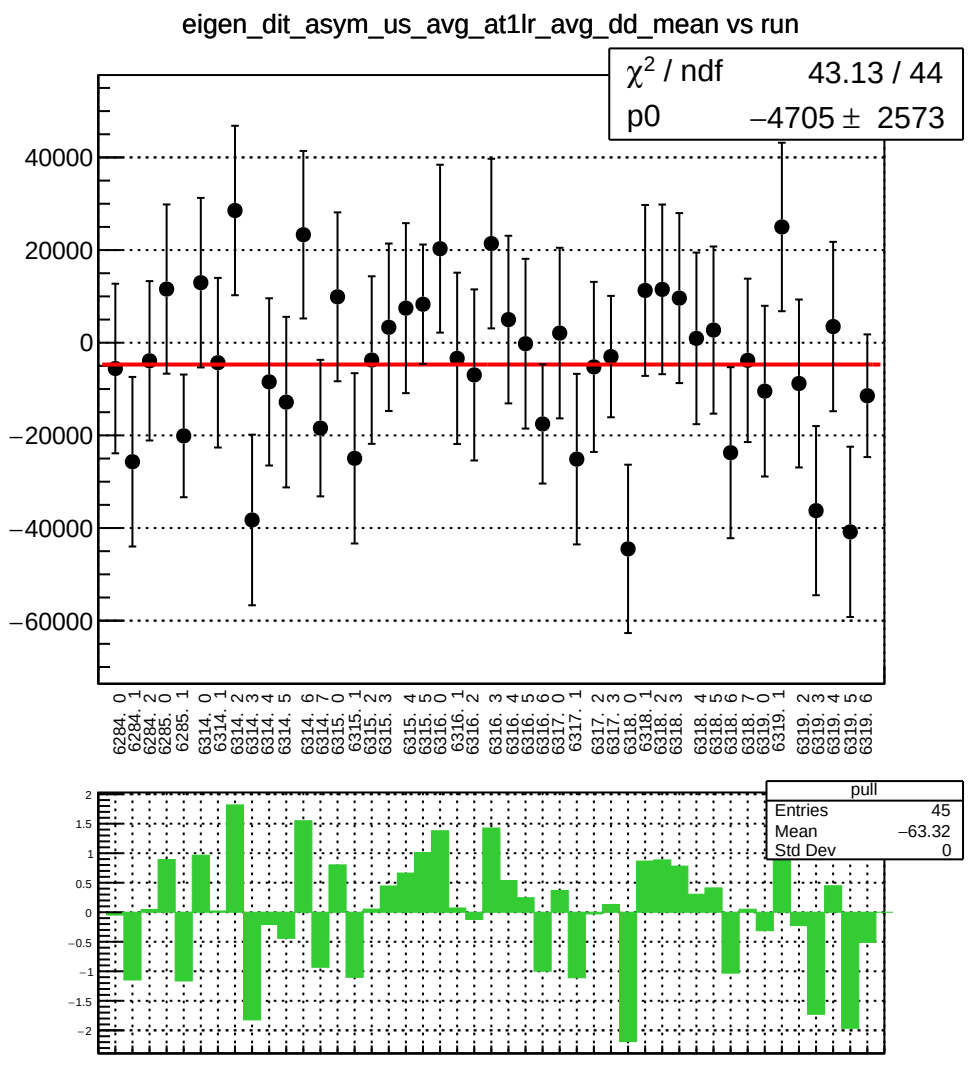
eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 43.13 / 44
p0 −4705 ± 2573
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
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6314. 7
6315. 0
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6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −63.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01628
Std Dev 0.9788
9
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−8
−6
−4
−2
0
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4
6
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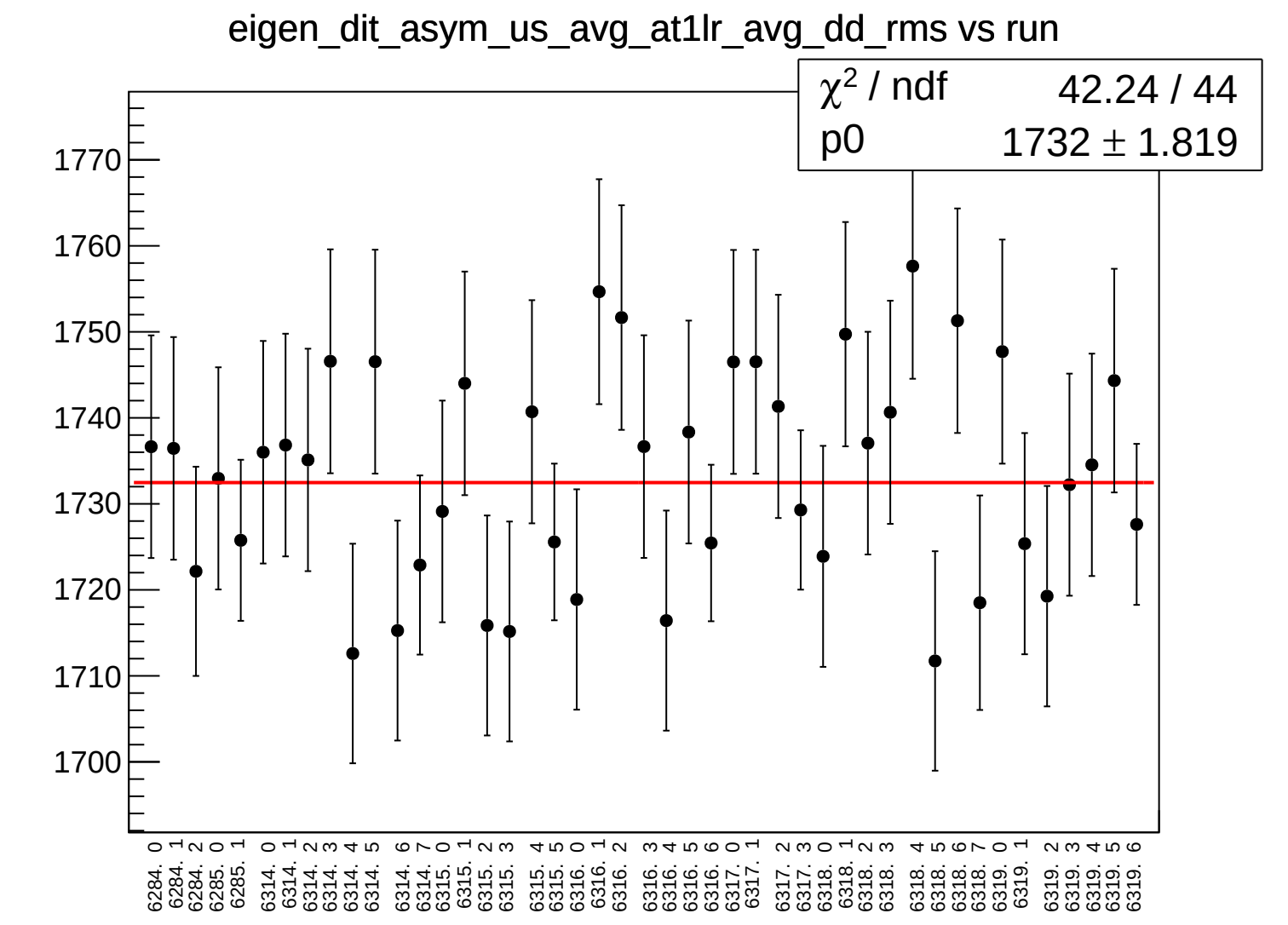
eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 42.24 / 44
p0 1732 ± 1.819
1770
1760
1750
1740
1730
1720
1710
1700
6284. 0
6284. 1
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6314. 7
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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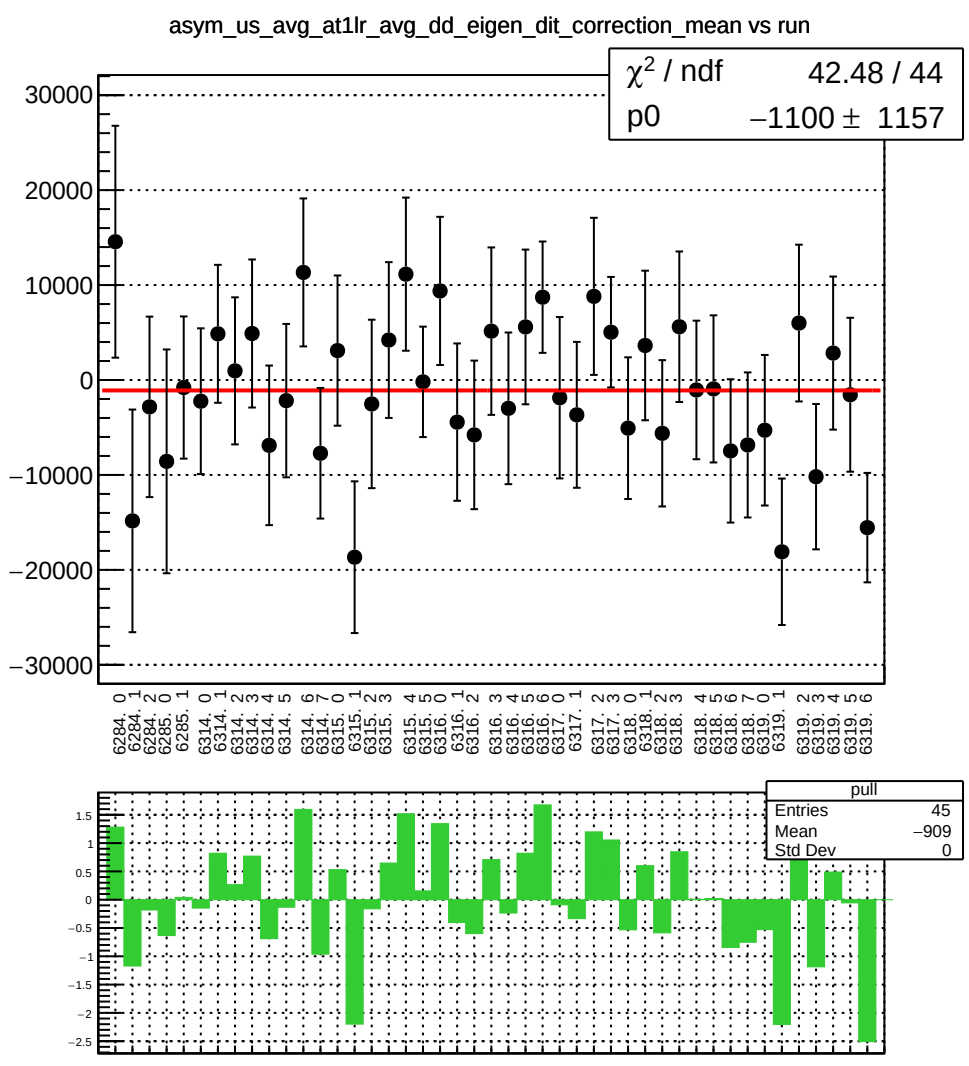
6319. 5
6319. 6


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.48 / 44
p0 −1100 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6317. 3
6318. 0
6318. 1
6318. 2
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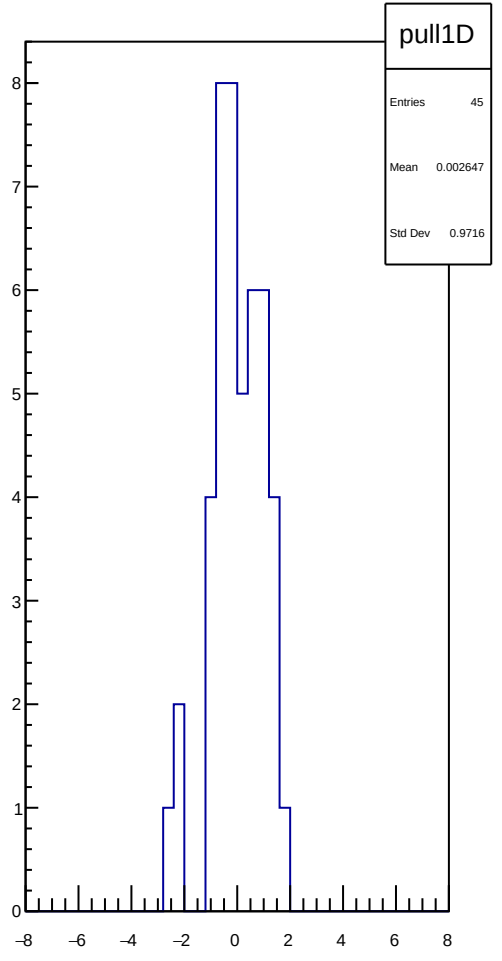
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −909
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.002647
Std Dev 0.9716
8
7
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5
4
3
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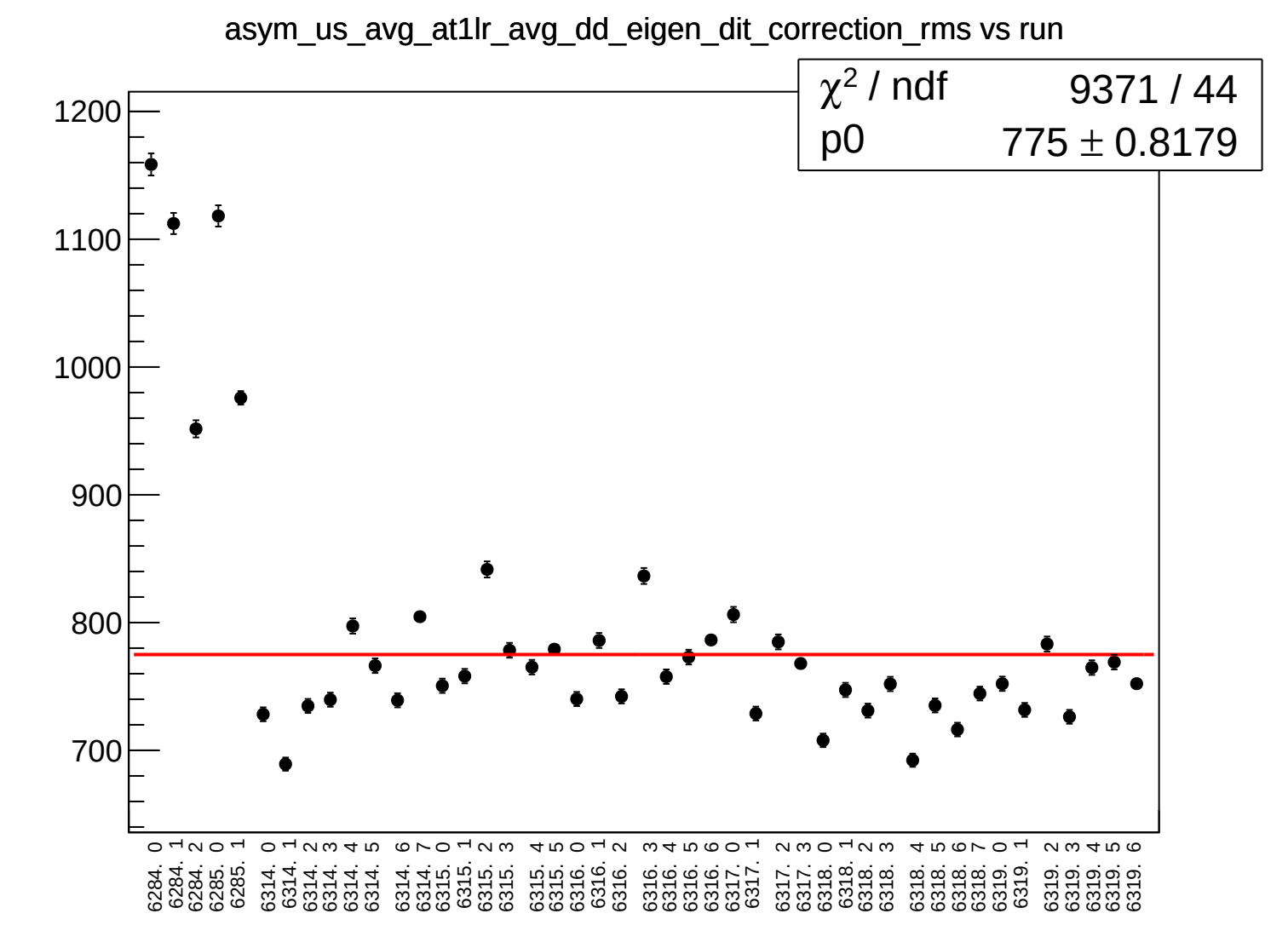
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9371 / 44
p0 775 ± 0.8179
1200
1100
1000
900
800
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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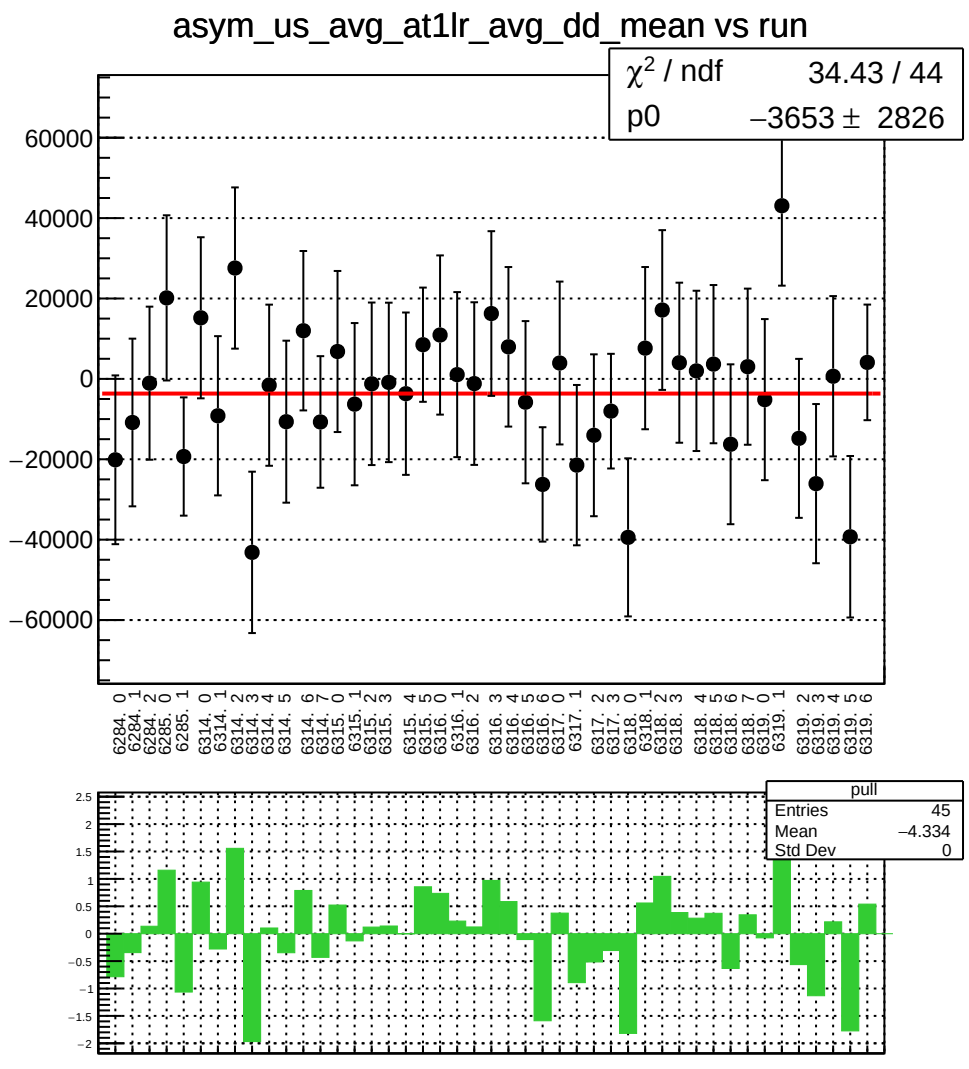
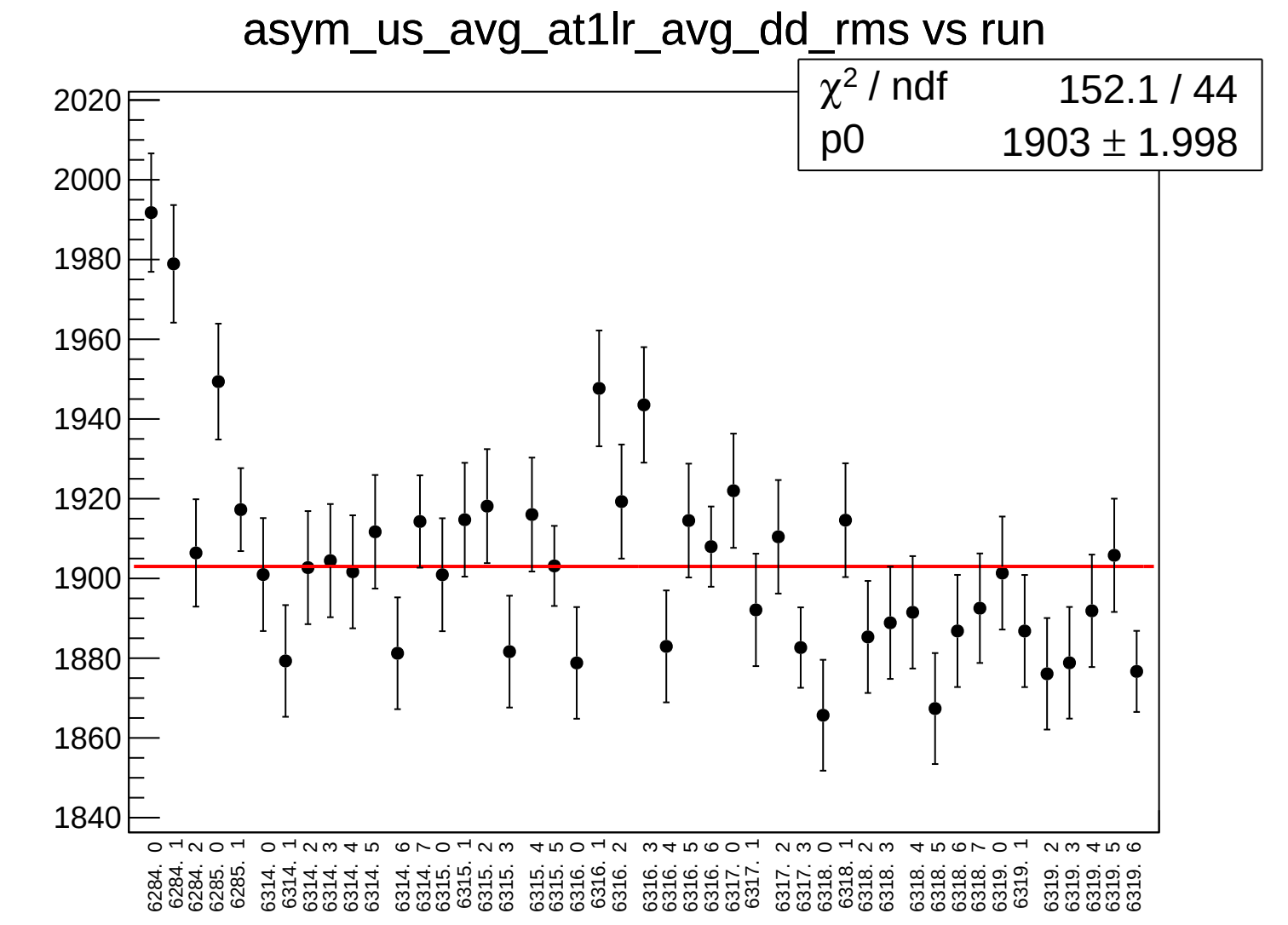
6319. 5
6319. 6


asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.43 / 44
p0 −3653 ± 2826
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.334
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01517
Std Dev 0.8746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 152.1 / 44
p0 1903 ± 1.998
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
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6317. 1
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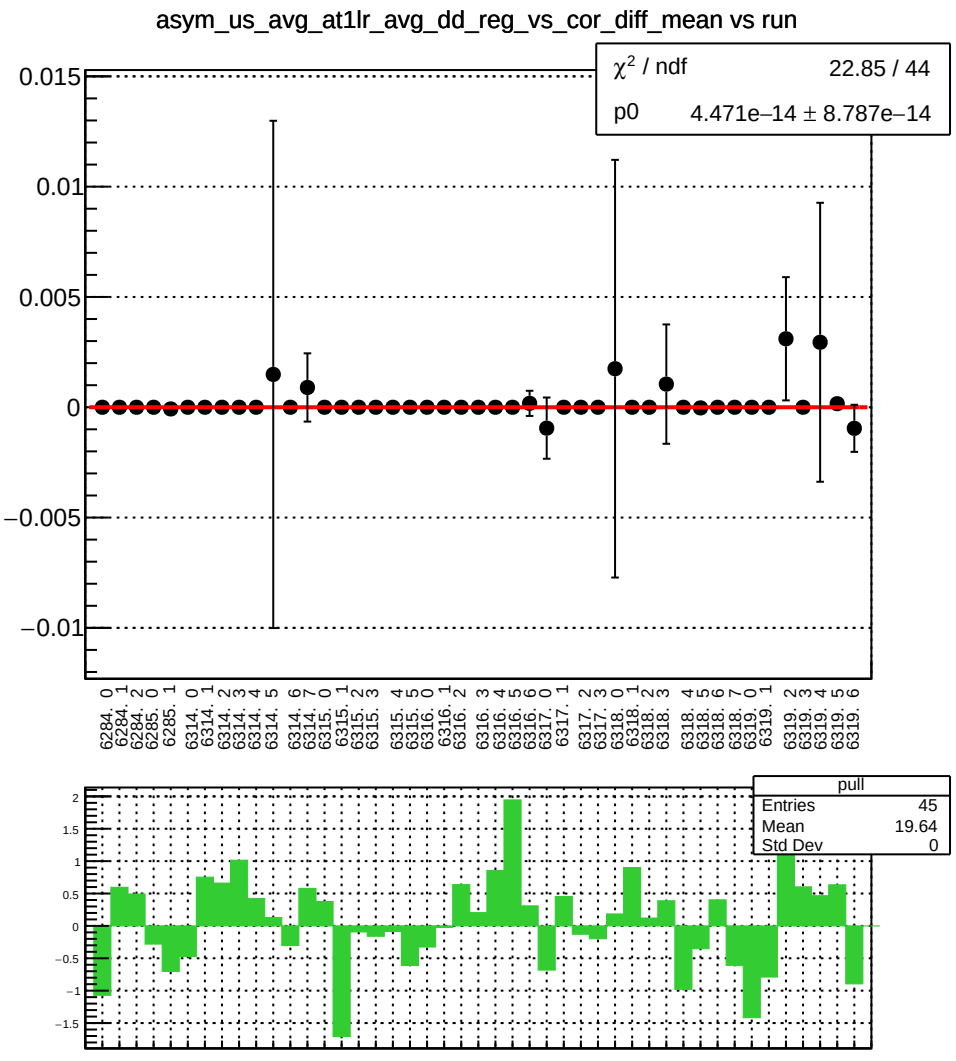
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.85 / 44
p0 4.471e−14 ± 8.787e−14
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
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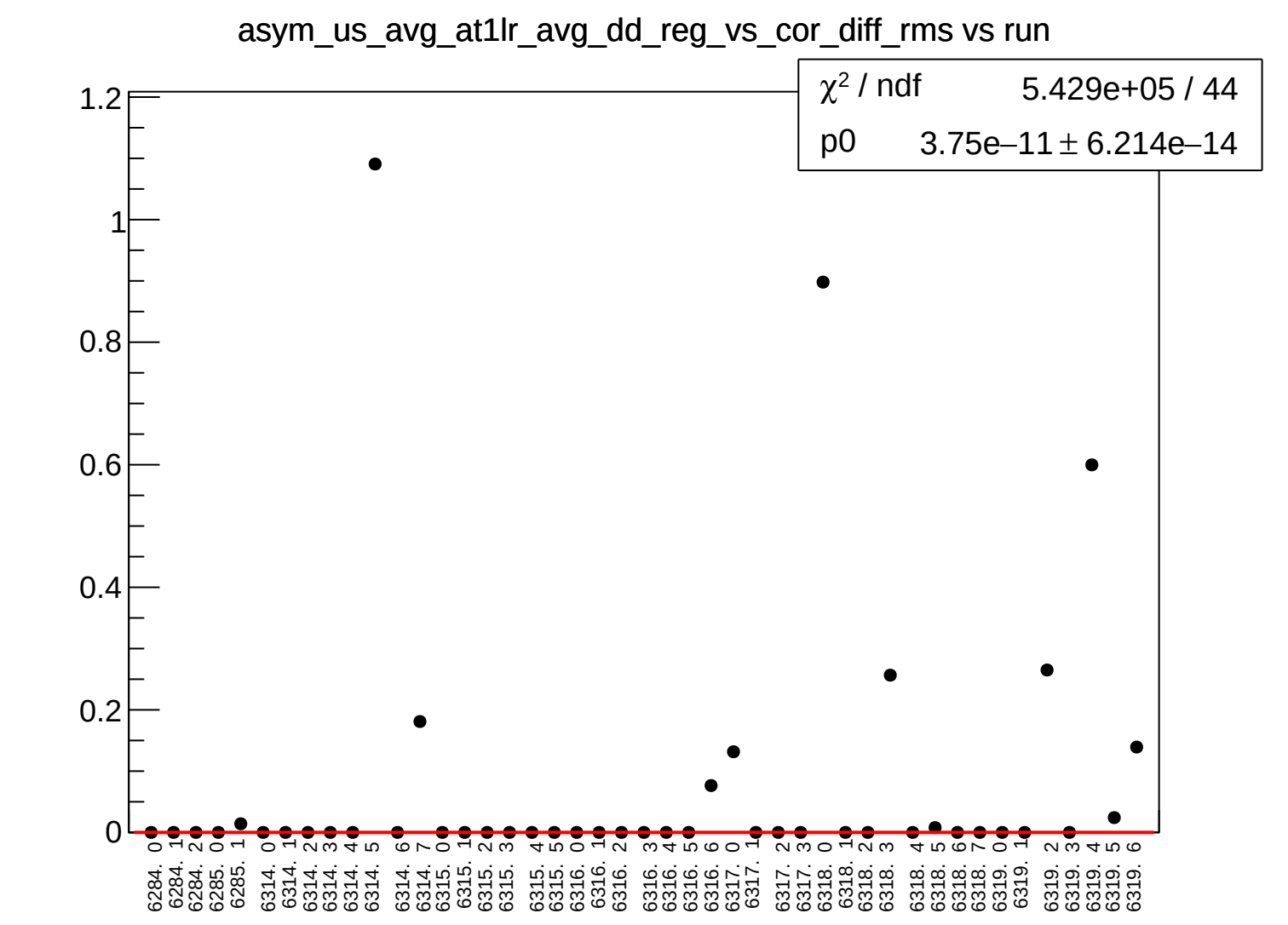
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 19.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.05226
Std Dev 0.7106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.429e+05 / 44
p0 3.75e−11 ± 6.214e−14
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 2
6314. 3
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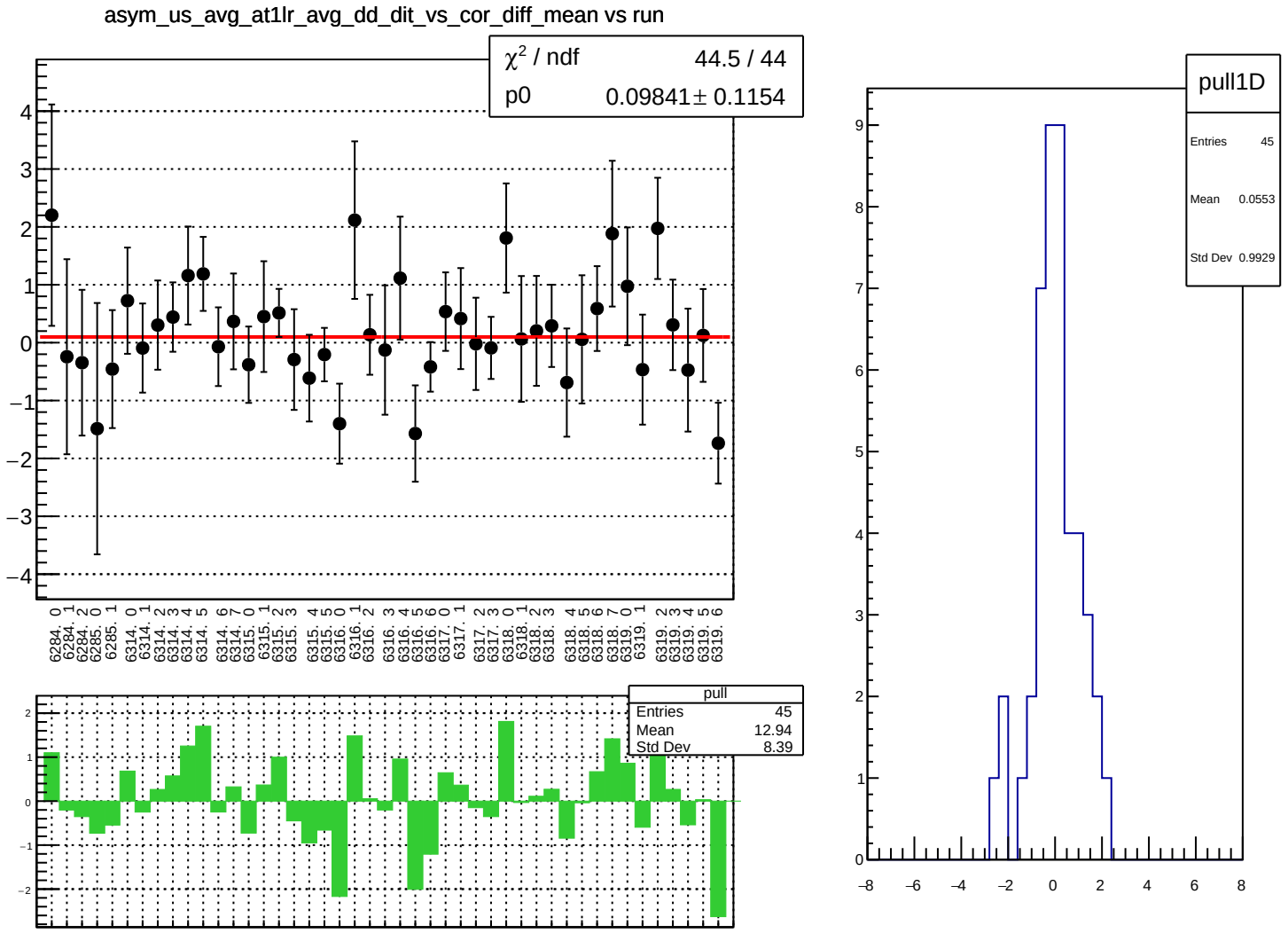
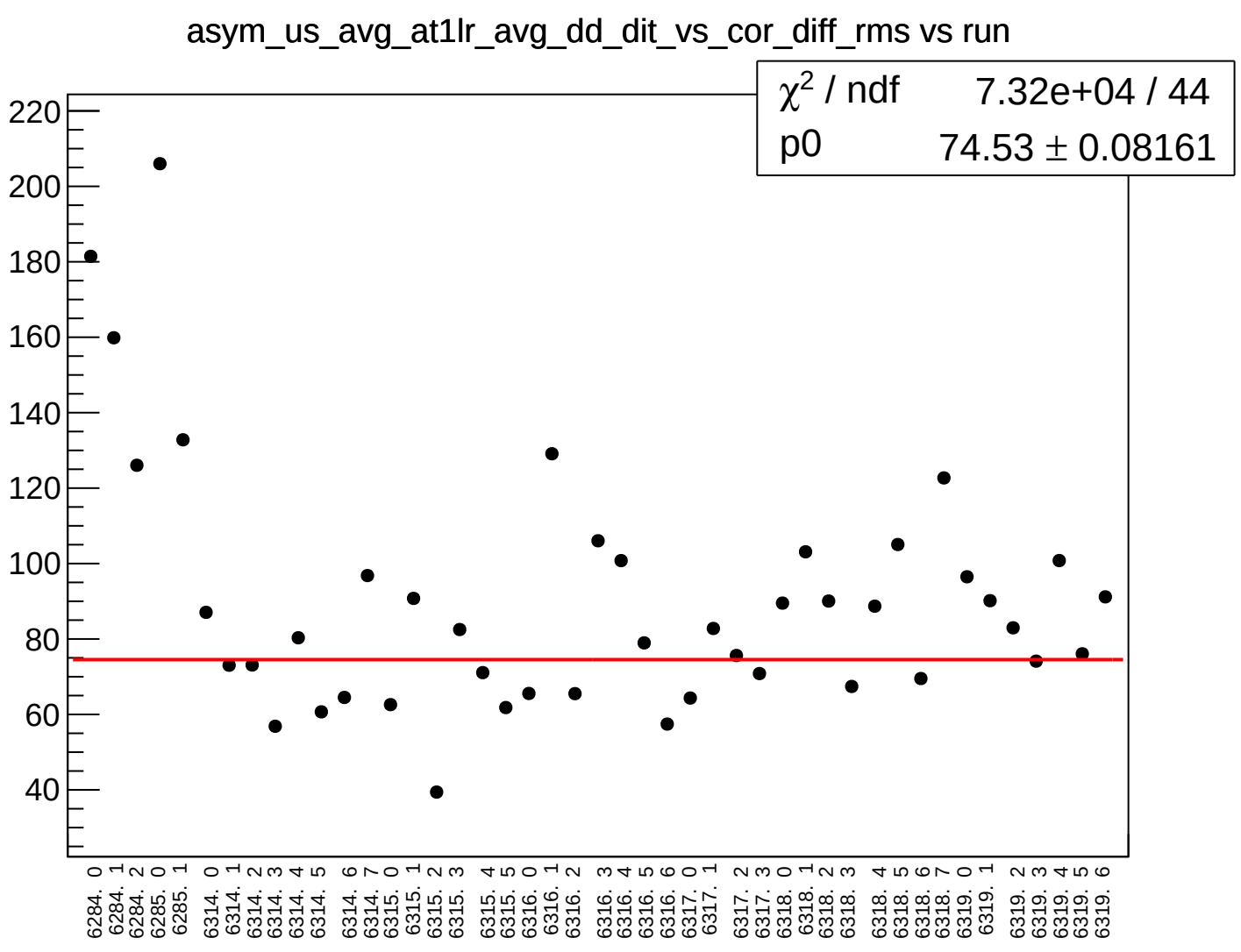
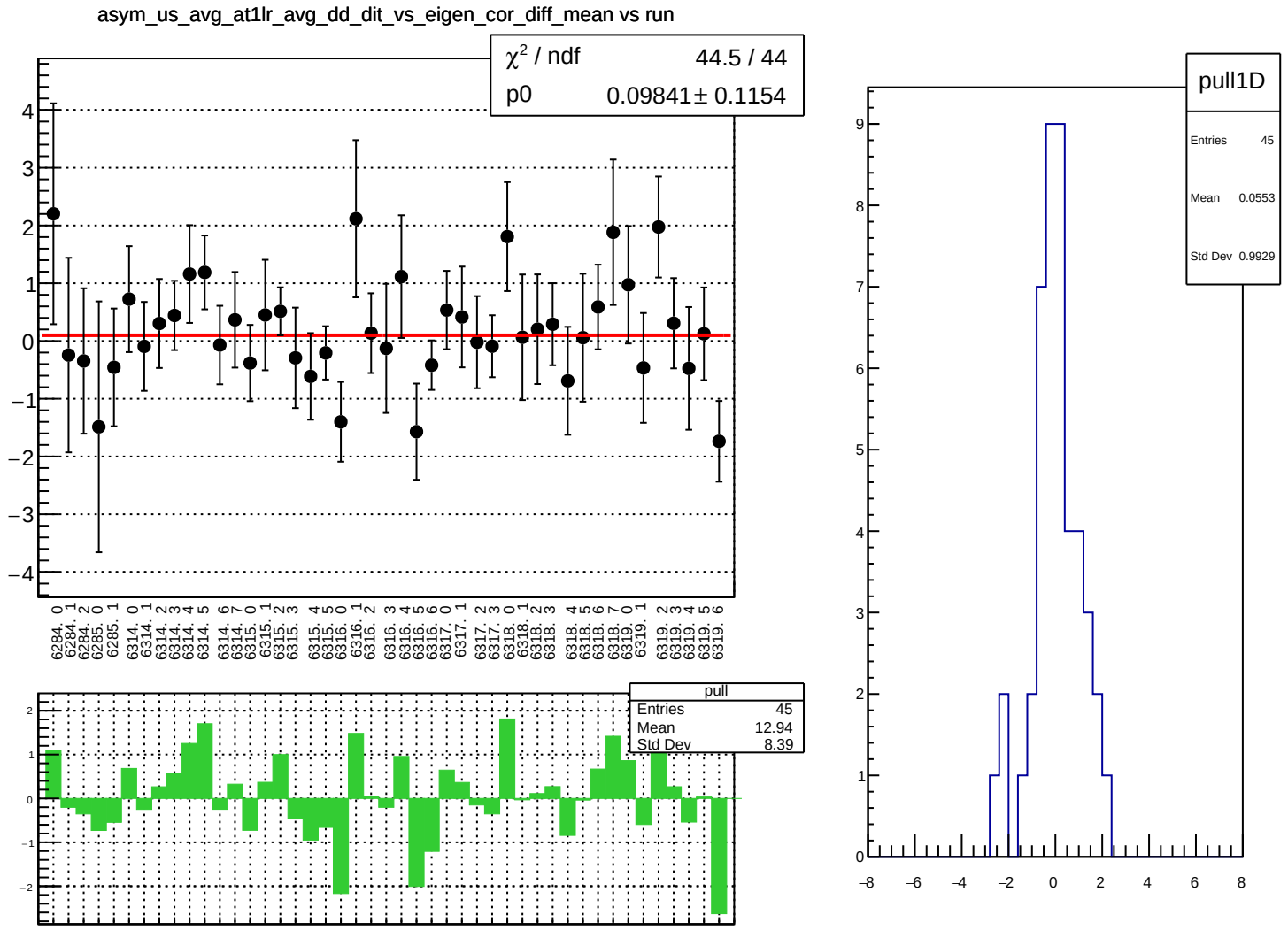
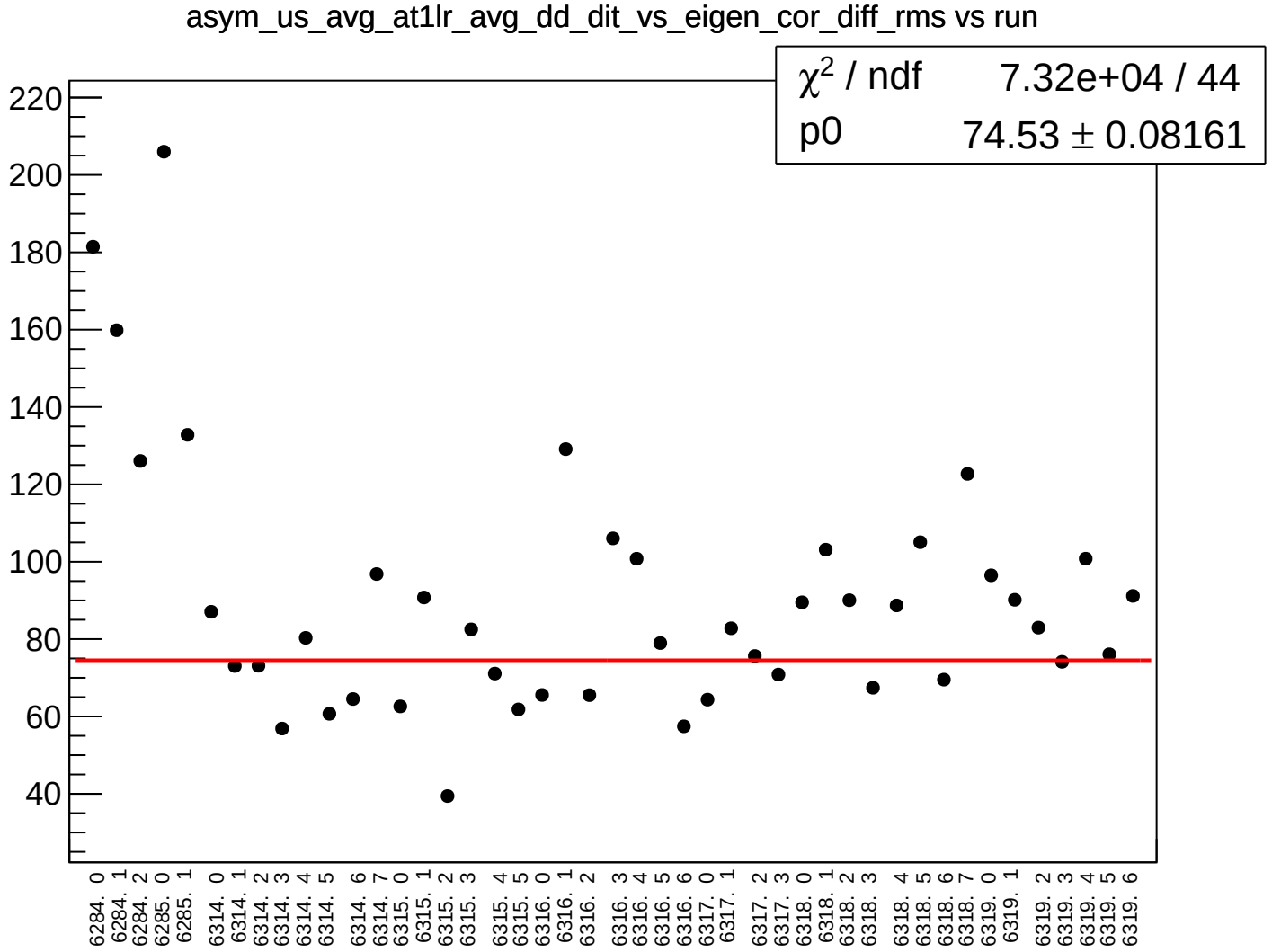
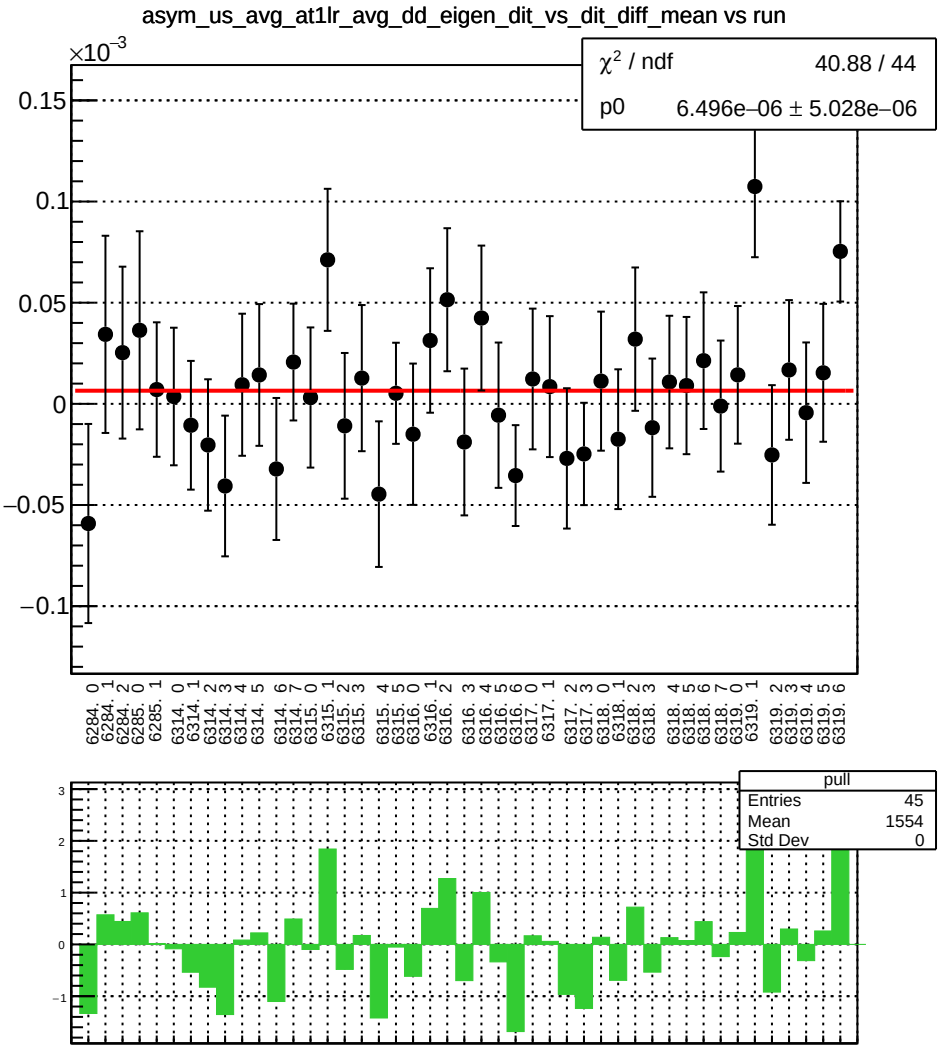
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

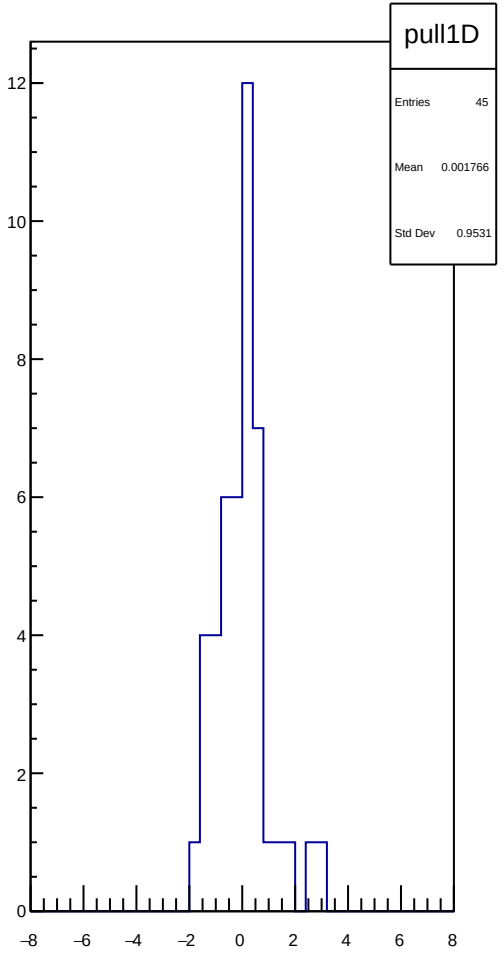

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.5 / 44
p0 0.09841 ± 0.1154
pull
Entries 45
Mean 12.94
Std Dev 8.39
pull1D
Entries 45
Mean 0.0553
Std Dev 0.9929

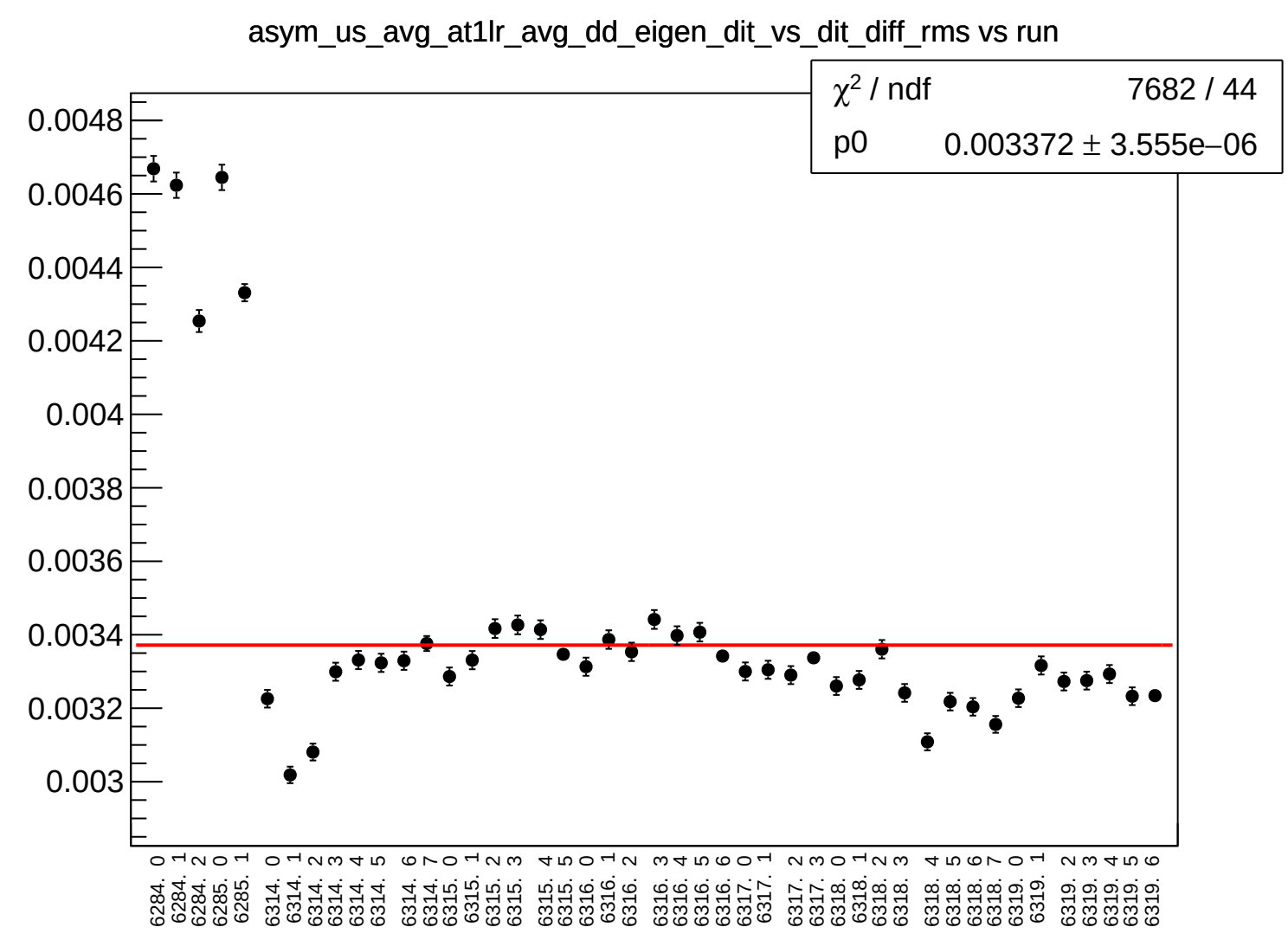

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.32e+04 / 44
p0 74.53 ± 0.08161
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

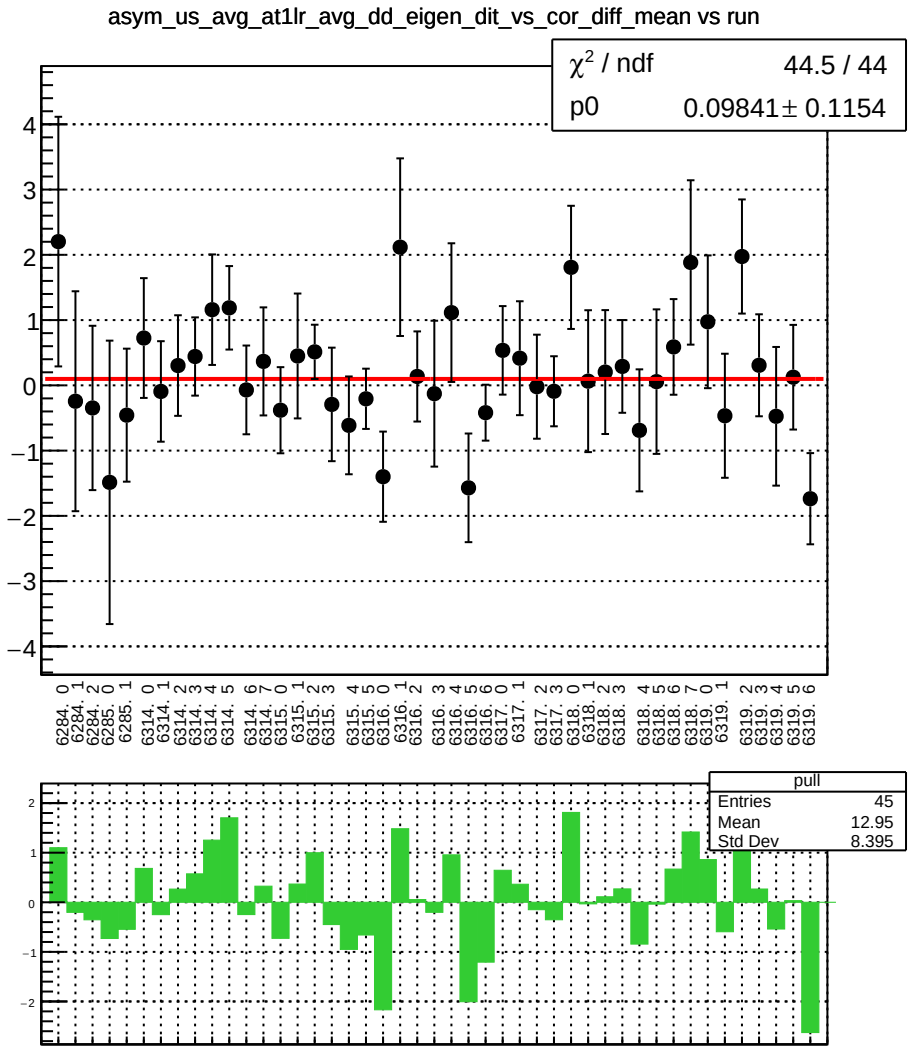

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.5 / 44
p0 0.09841 ± 0.1154
pull
Entries 45
Mean 12.94
Std Dev 8.39
pull1D
Entries 45
Mean 0.0553
Std Dev 0.9929

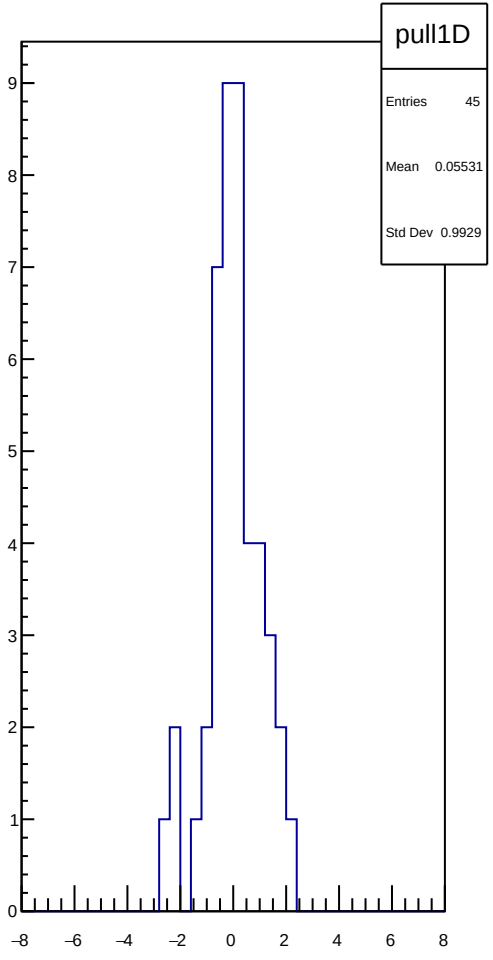

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.32e+04 / 44
p0 74.53 ± 0.08161
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

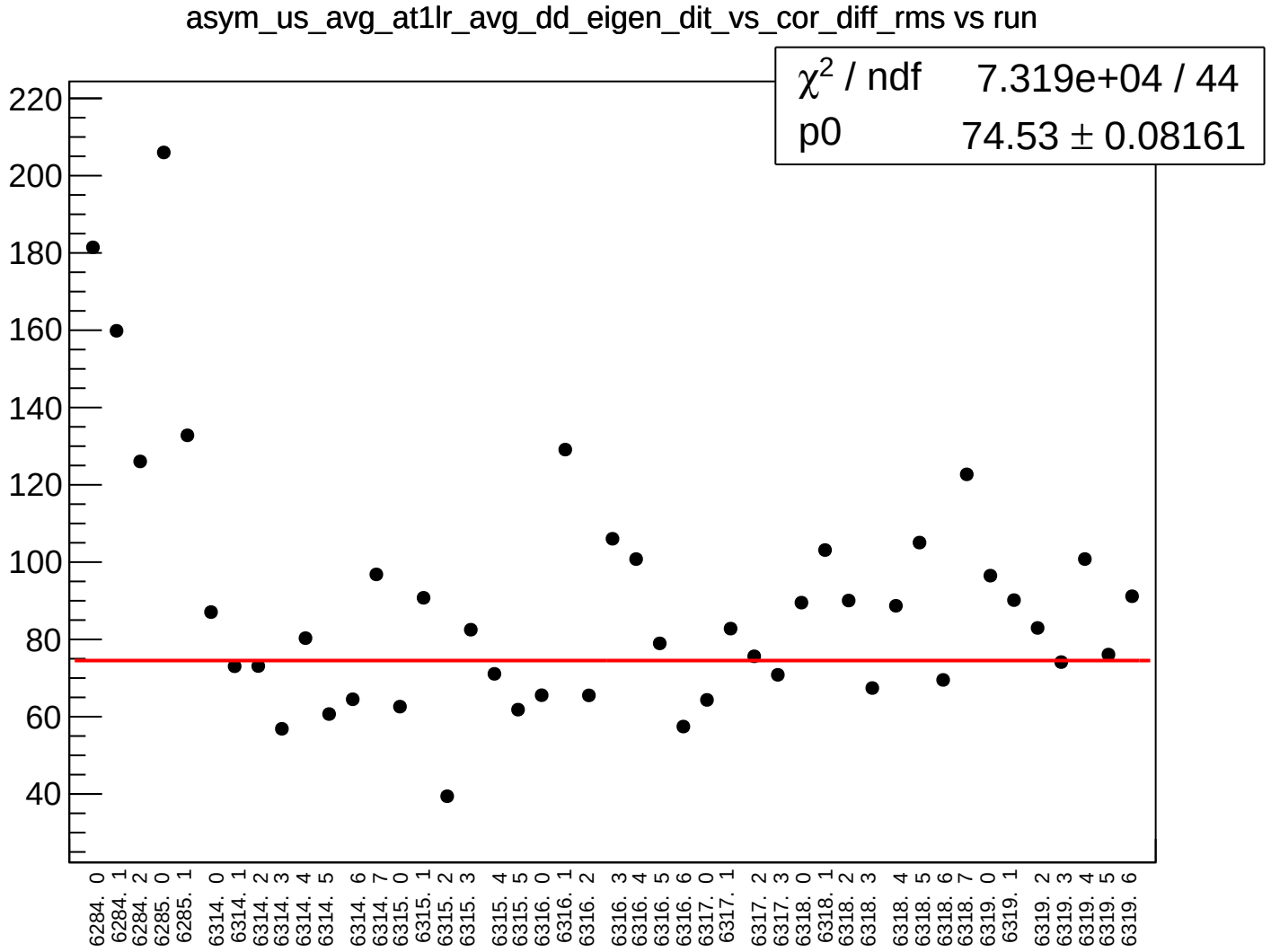

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.88 / 44
p0 6.496e−06 ± 5.028e−06
0.15
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1554
Std Dev 0
3
2
1
0
−1

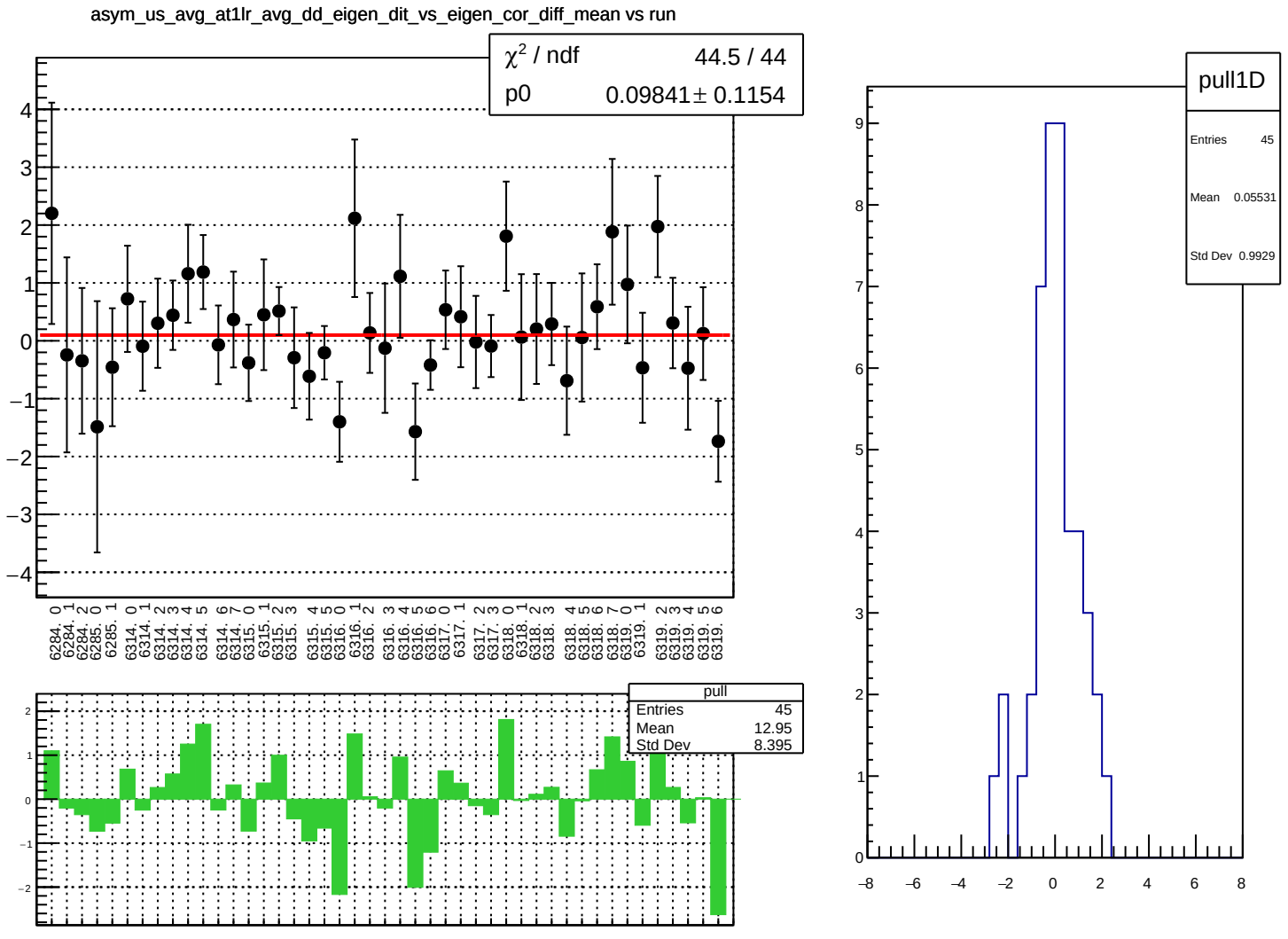

pull1D
Entries 45
Mean 0.001766
Std Dev 0.9531
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

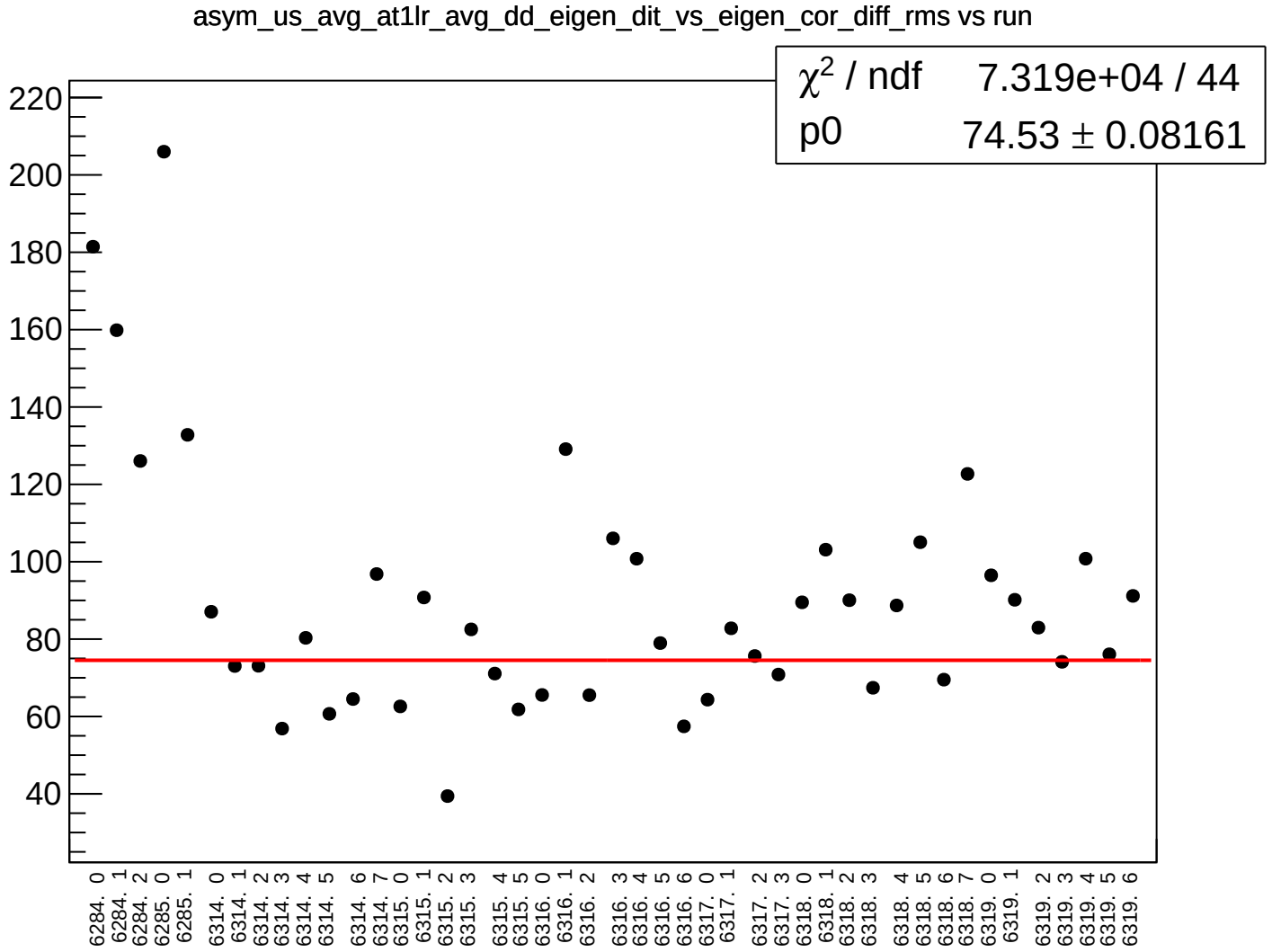

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7682 / 44
p0 0.003372 ± 3.555e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

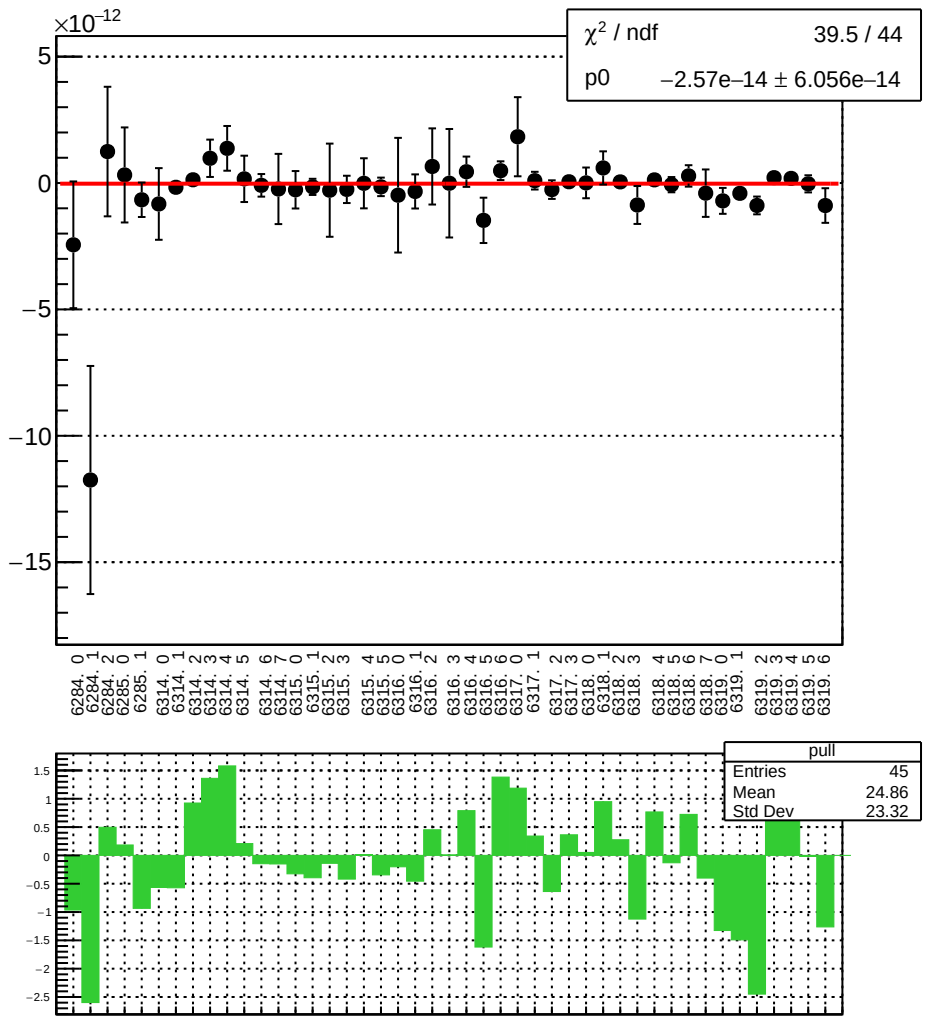

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.5 / 44
p0 0.09841 ± 0.1154
pull
Entries 45
Mean 12.95
Std Dev 8.395

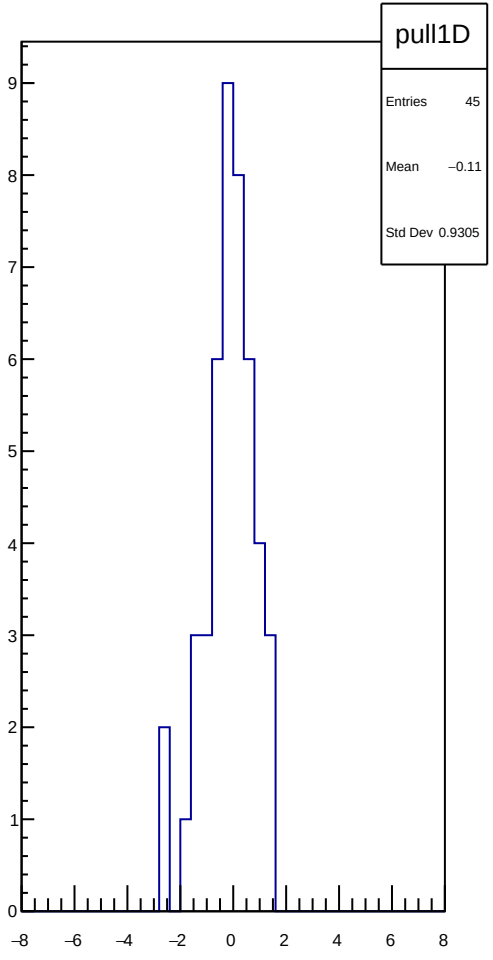

pull1D
Entries 45
Mean 0.05531
Std Dev 0.9929

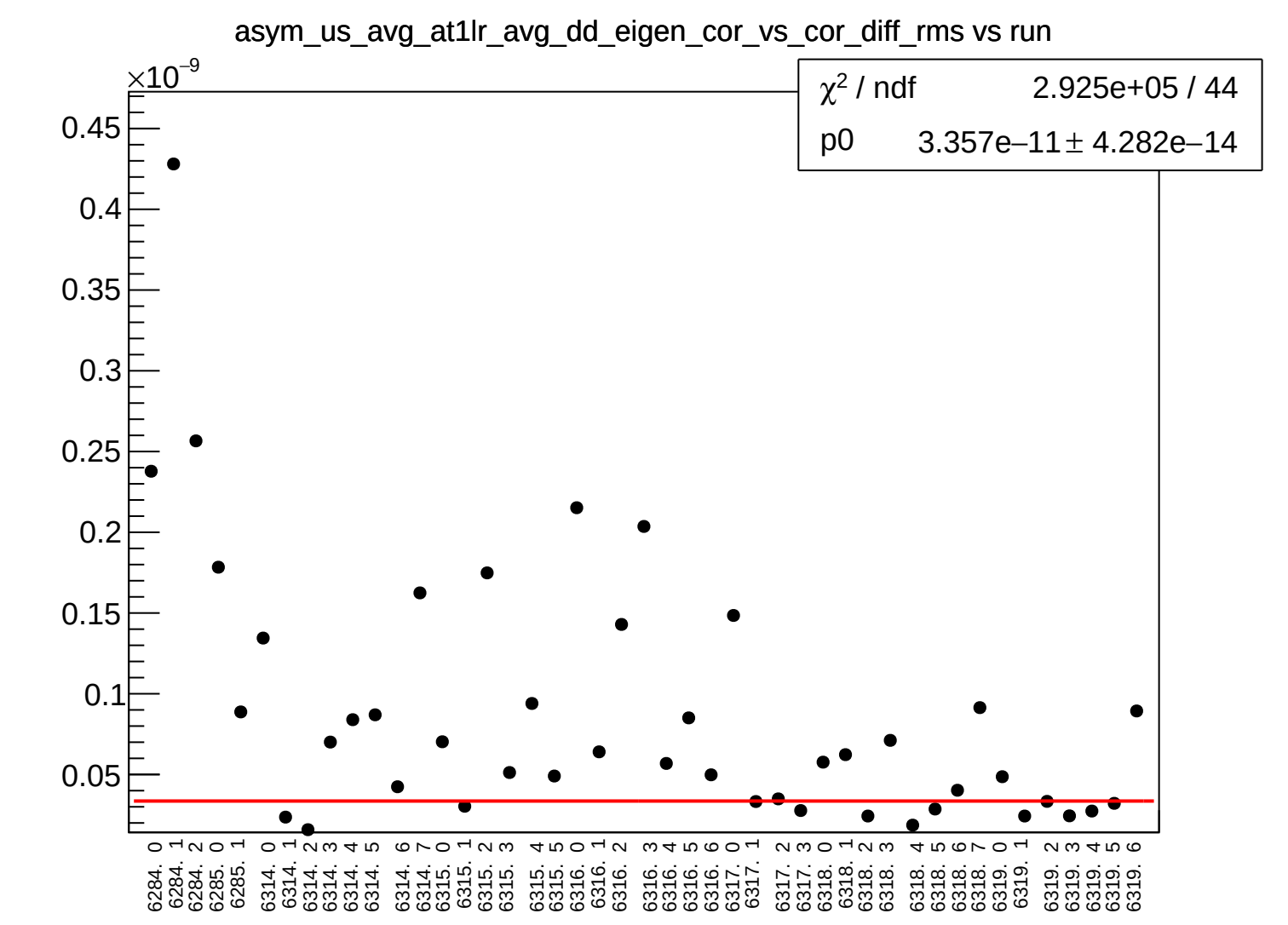

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 44
p0 74.53 ± 0.08161
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

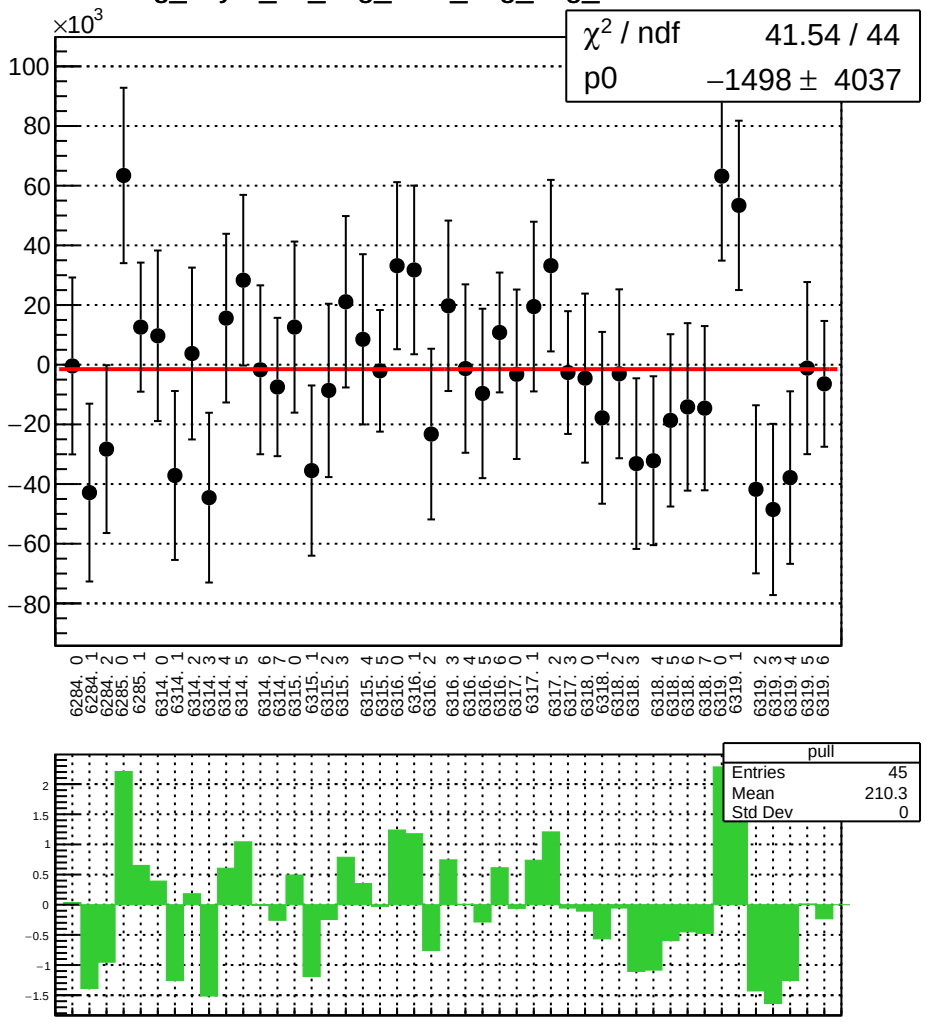

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.5 / 44
p0 0.09841 ± 0.1154
pull
Entries 45
Mean 12.95
Std Dev 8.395
pull1D
Entries 45
Mean 0.05531
Std Dev 0.9929

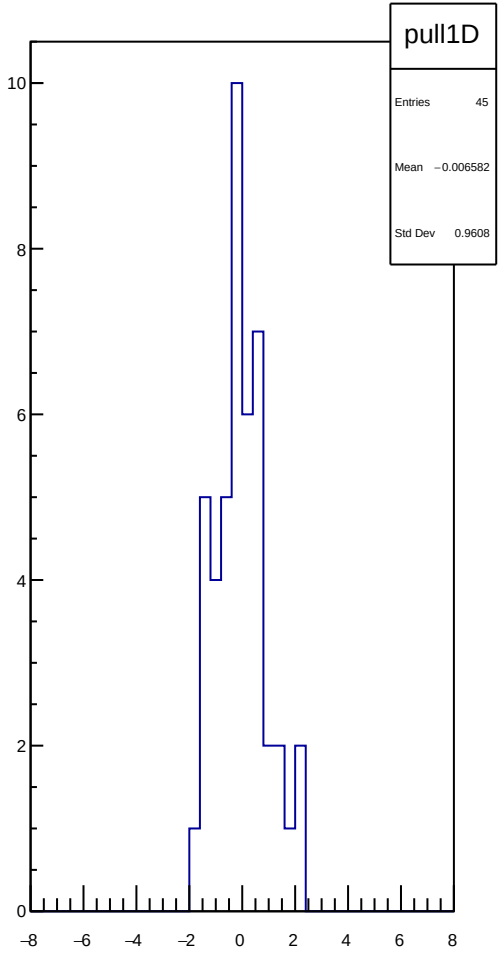

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 44
p0 74.53 ± 0.08161
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

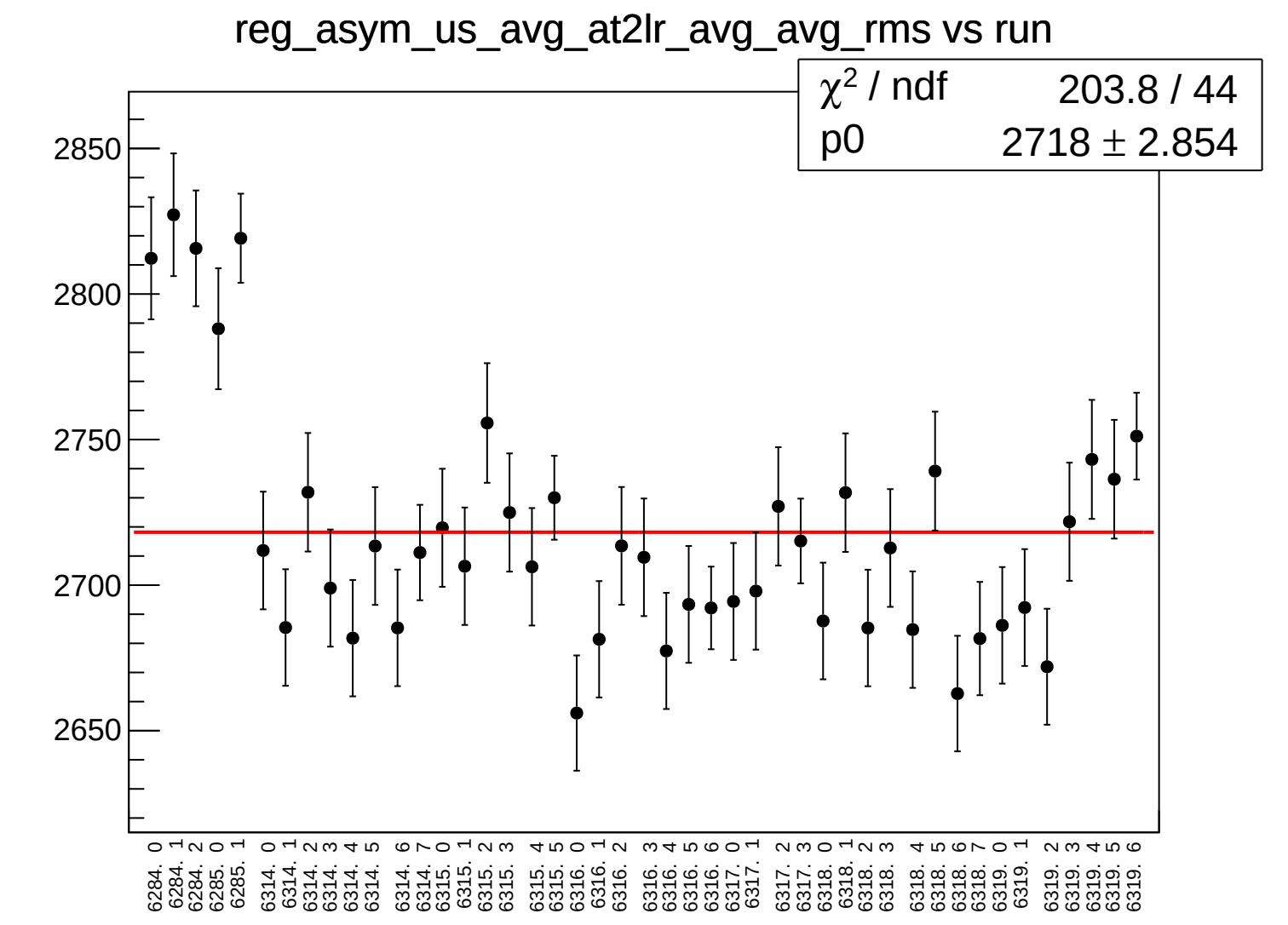

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.5 / 44
p0 −2.57e−14 ± 6.056e−14
pull
Entries 45
Mean 24.86
Std Dev 23.32

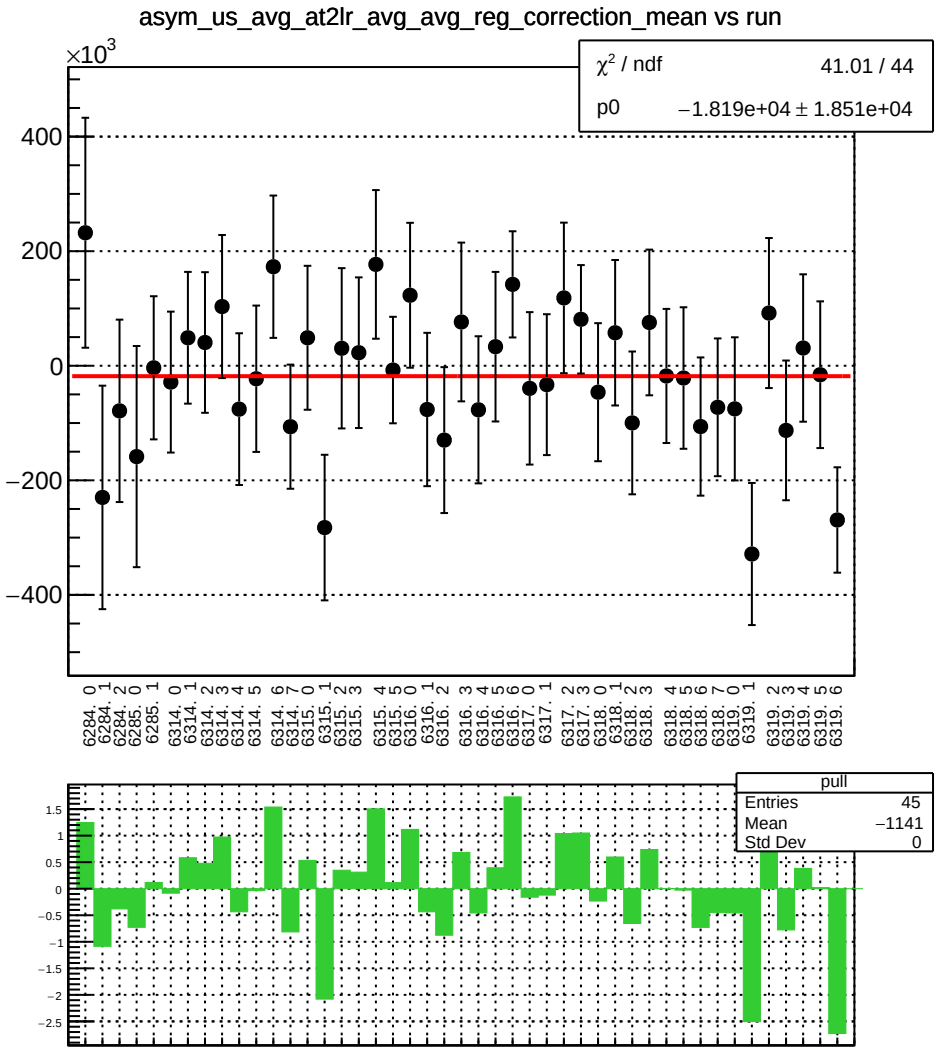

pull1D
Entries 45
Mean −0.11
Std Dev 0.9305

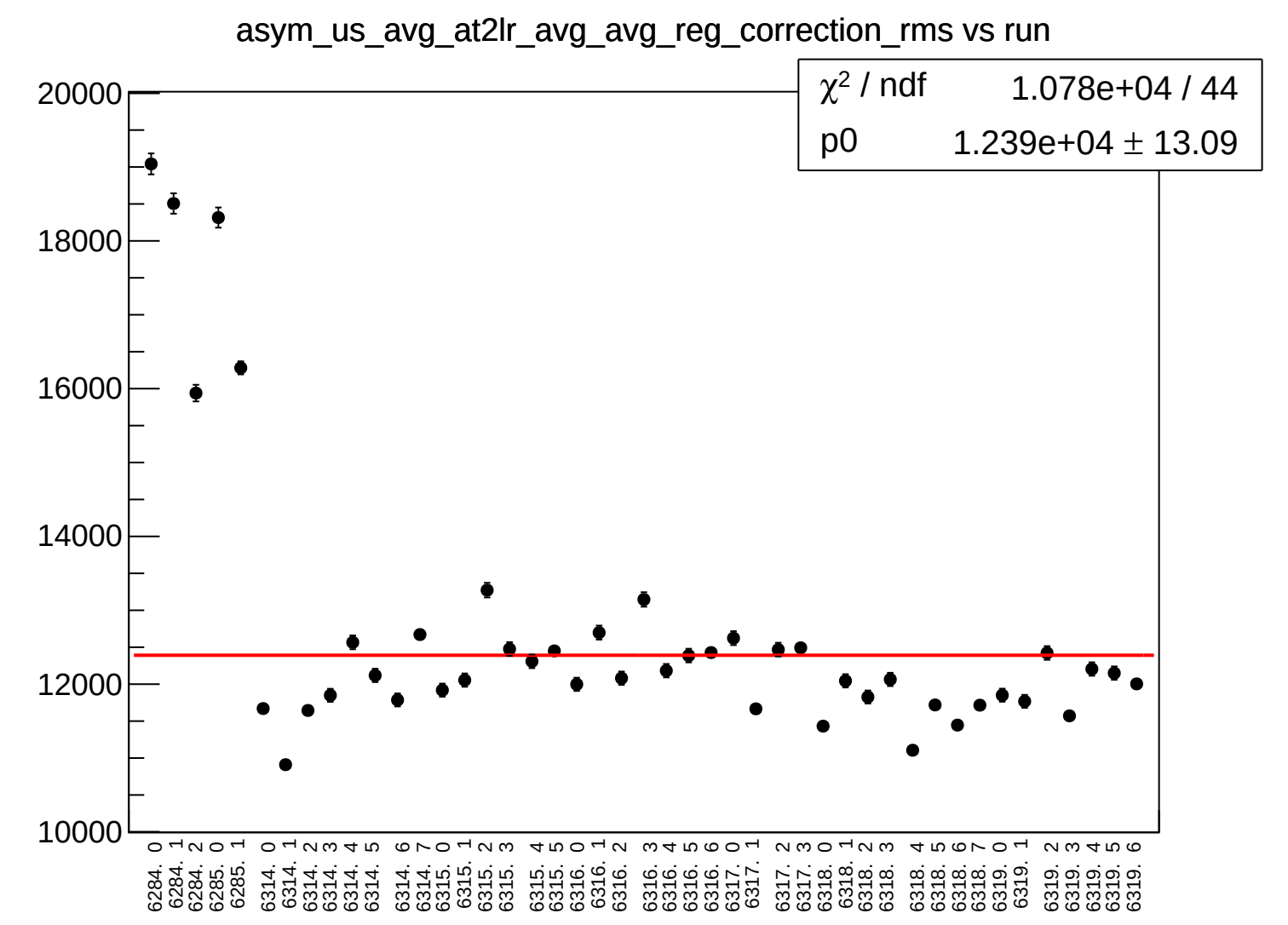

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.925e+05 / 44
p0 3.357e−11 ± 4.282e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

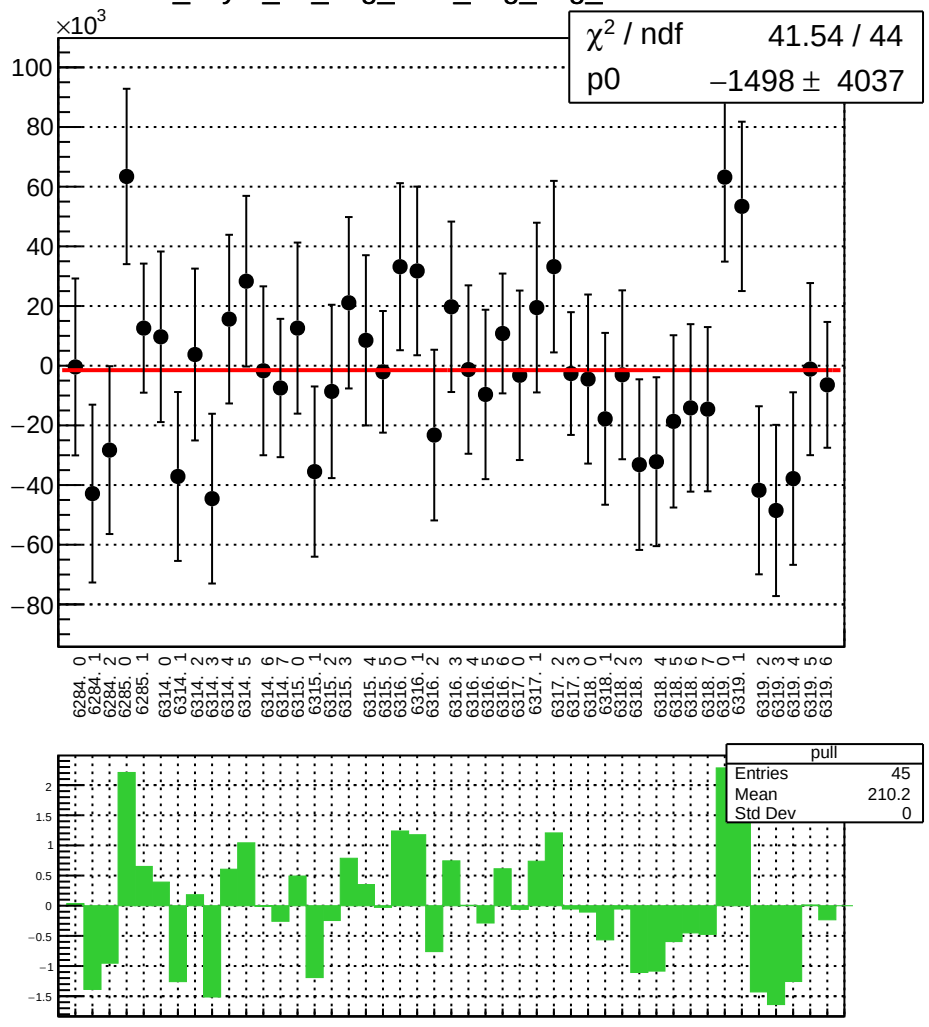

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 41.54 / 44
p0 −1498 ± 4037
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 210.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

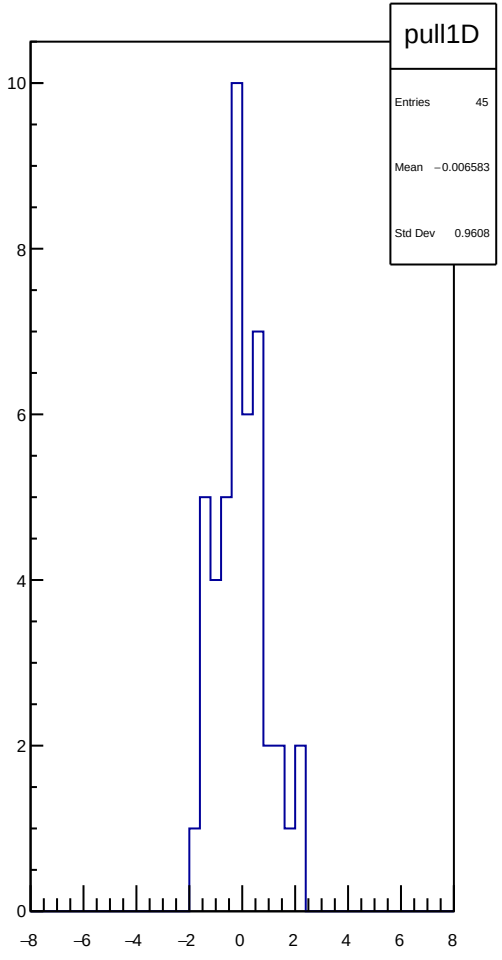

pull1D
Entries 45
Mean −0.006582
Std Dev 0.9608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

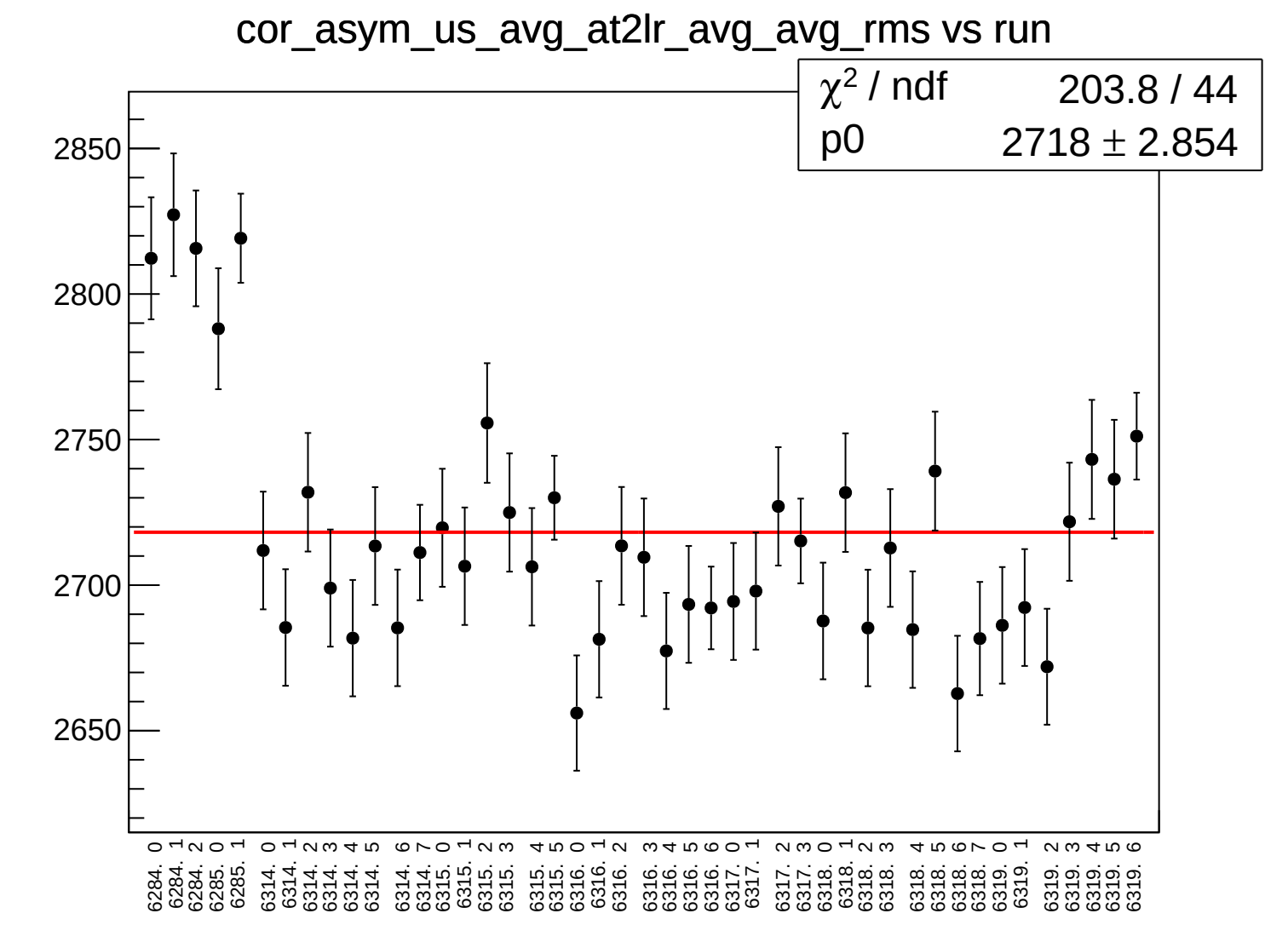

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 203.8 / 44
p0 2718 ± 2.854
2850
2800
2750
2700
2650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

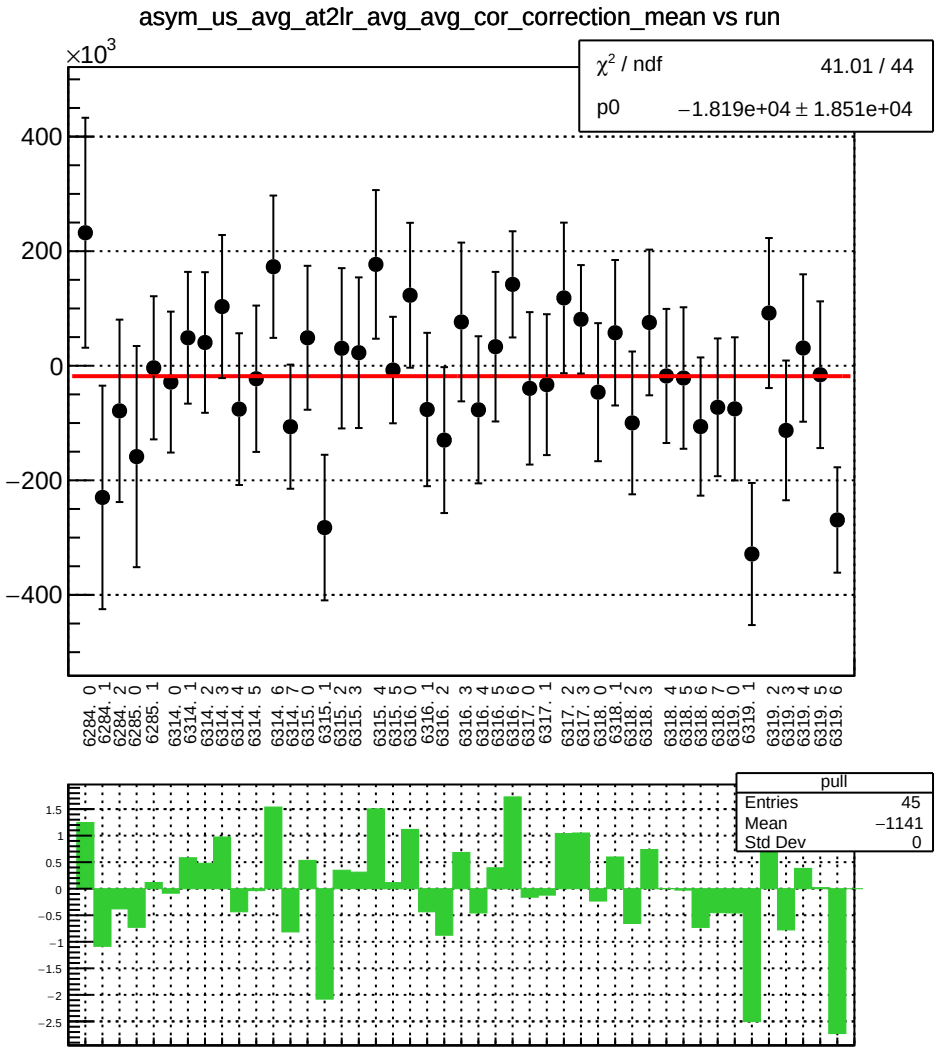

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.819e+04 ± 1.851e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6284. 6
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1141
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.002189
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

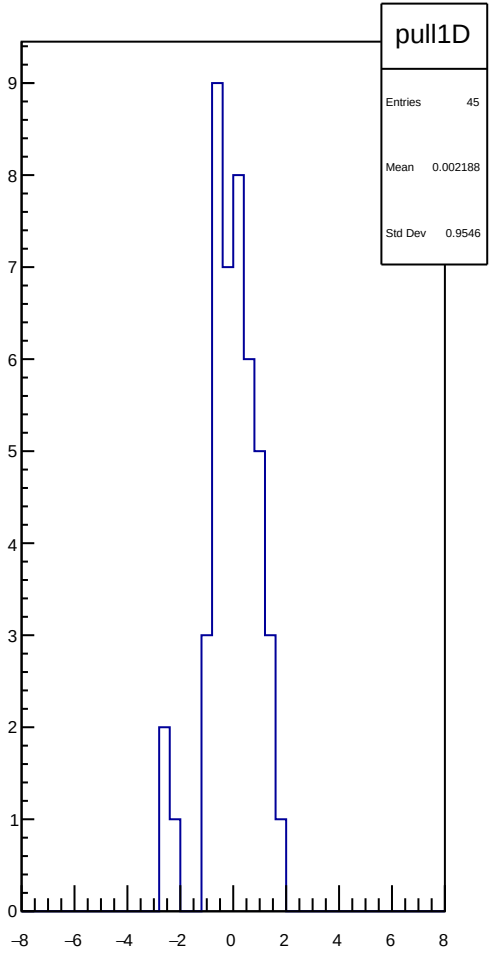

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.078e+04 / 44
p0 1.239e+04 ± 13.09
20000
18000
16000
14000
12000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

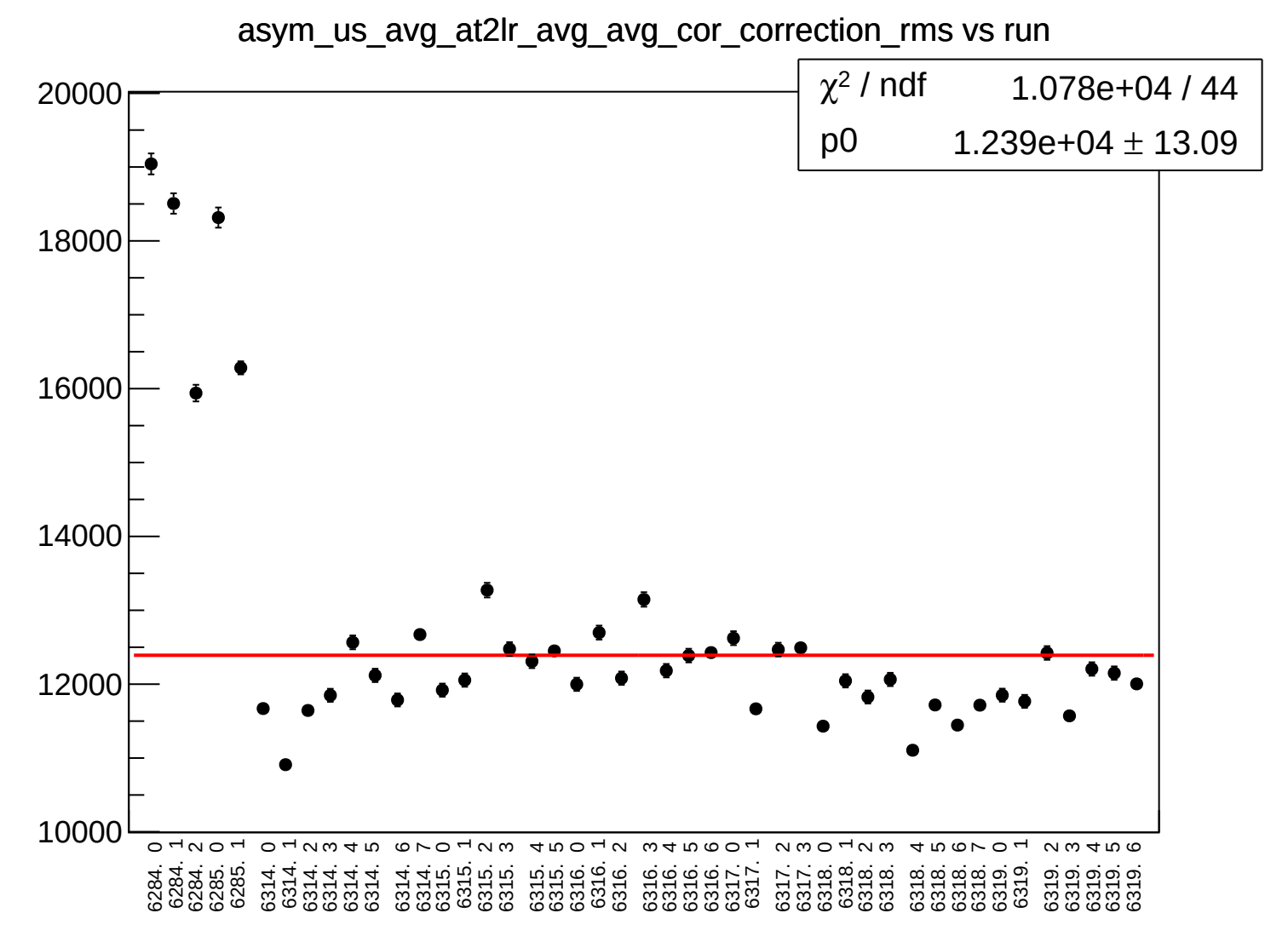

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 41.54 / 44
p0 −1498 ± 4037
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 210.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

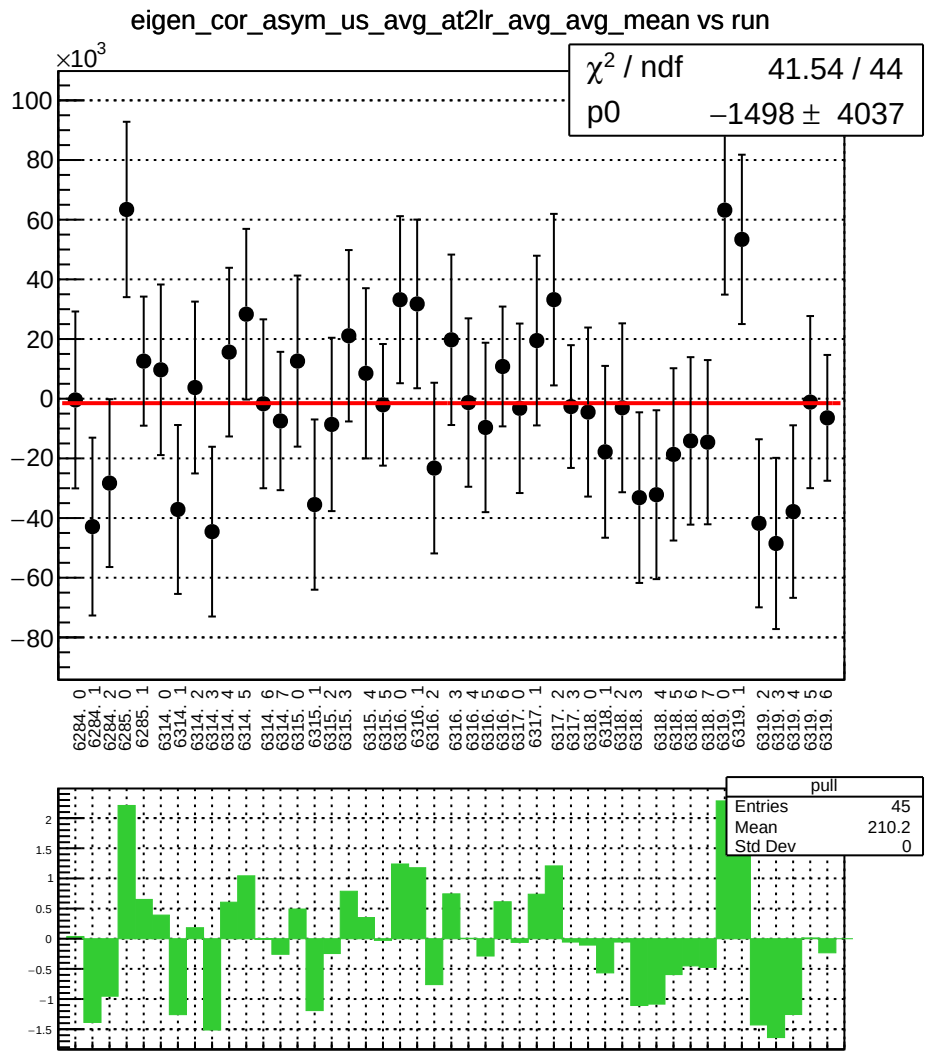

pull1D
Entries 45
Mean −0.006583
Std Dev 0.9608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

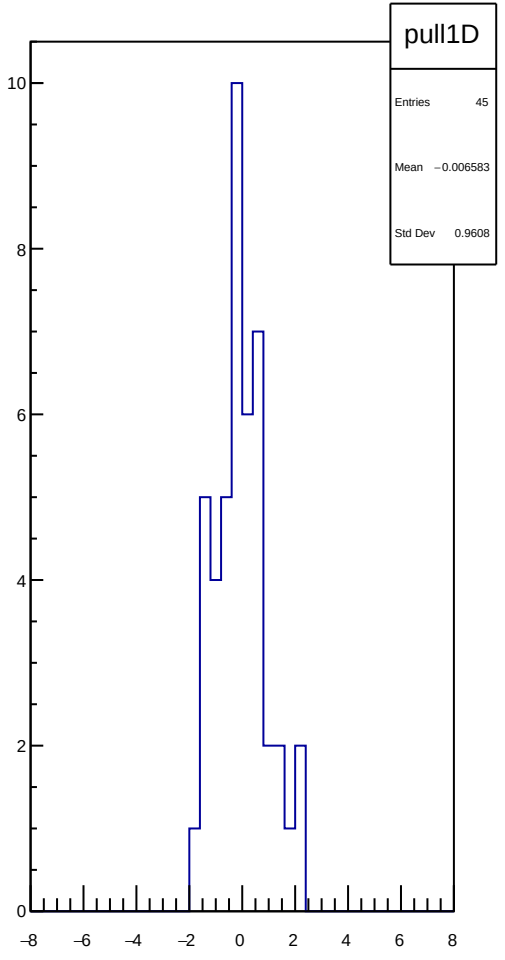

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 203.8 / 44
p0 2718 ± 2.854
2850
2800
2750
2700
2650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

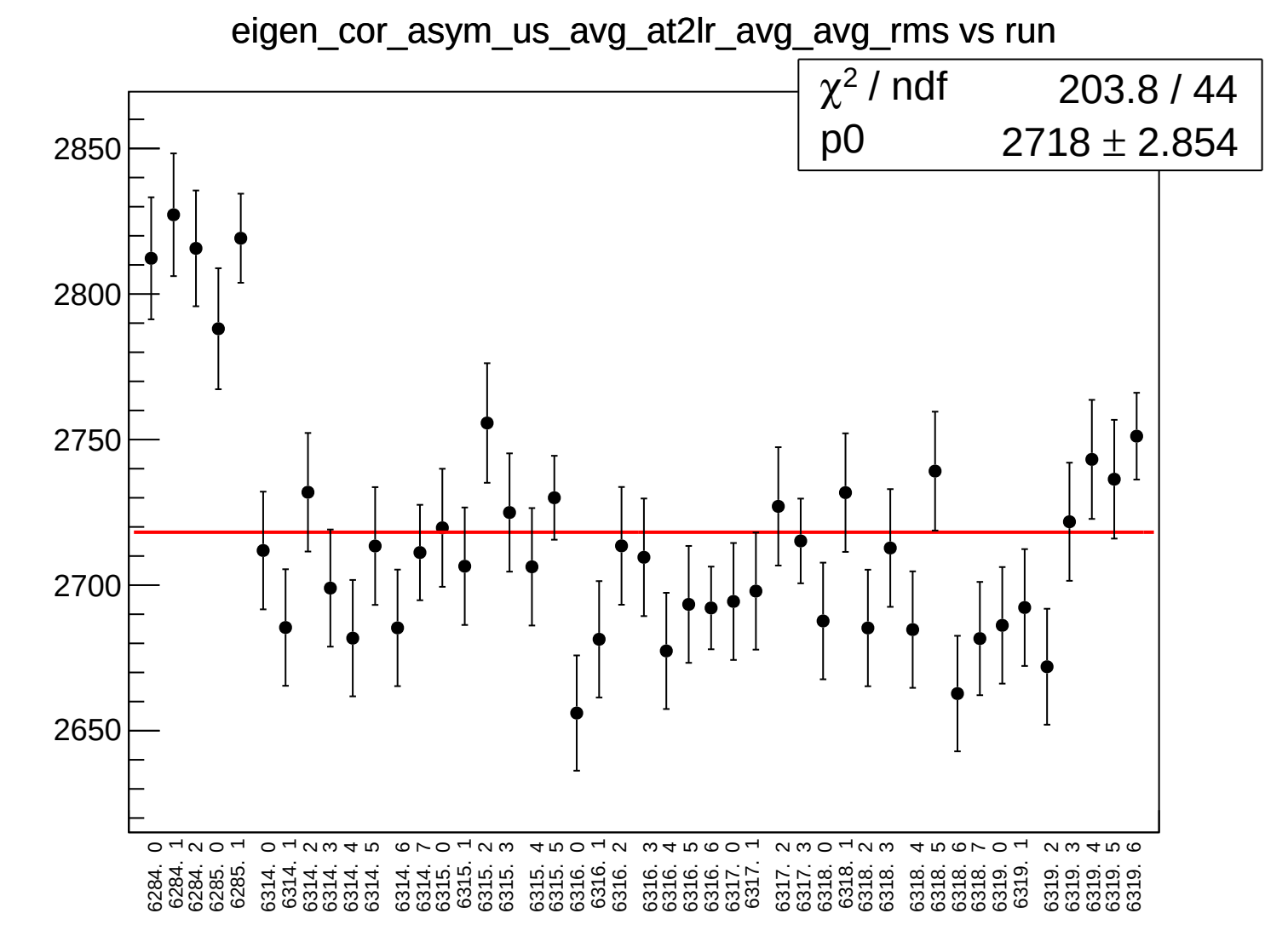

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.819e+04 ± 1.851e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1141
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

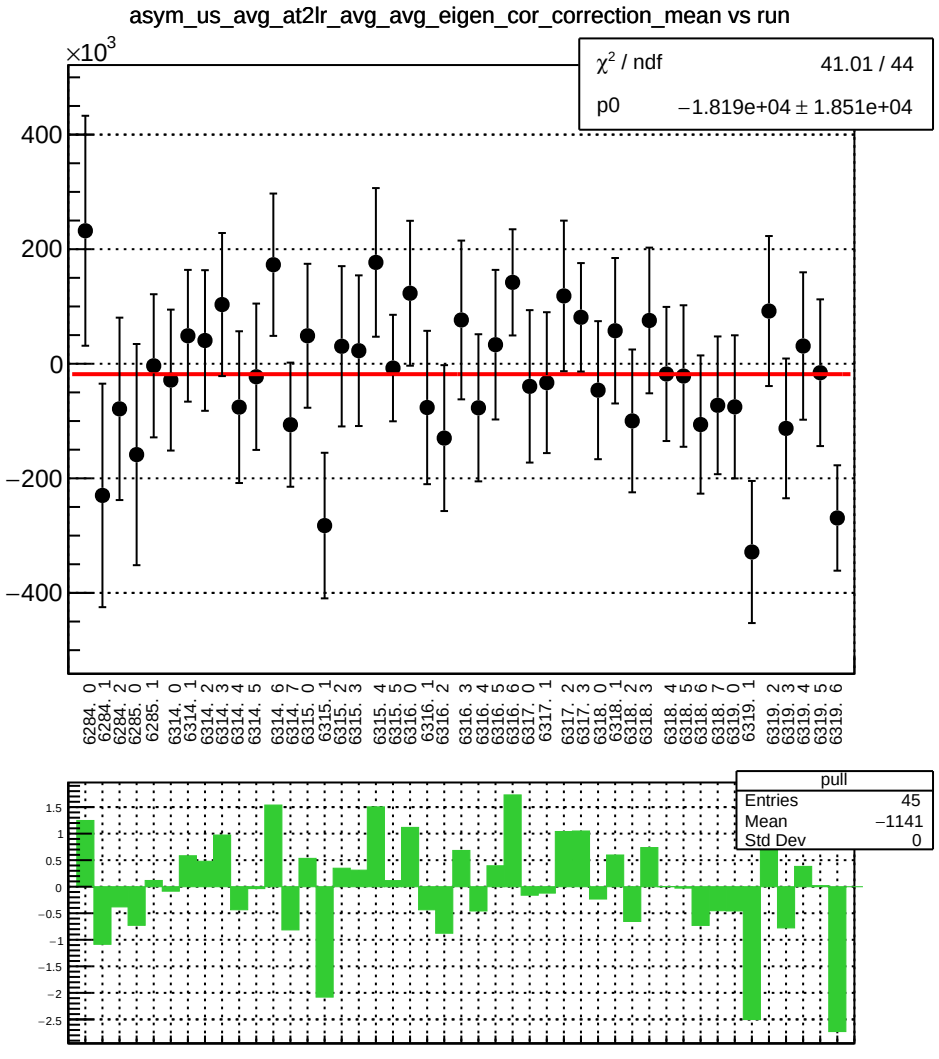

pull1D
Entries 45
Mean 0.002188
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

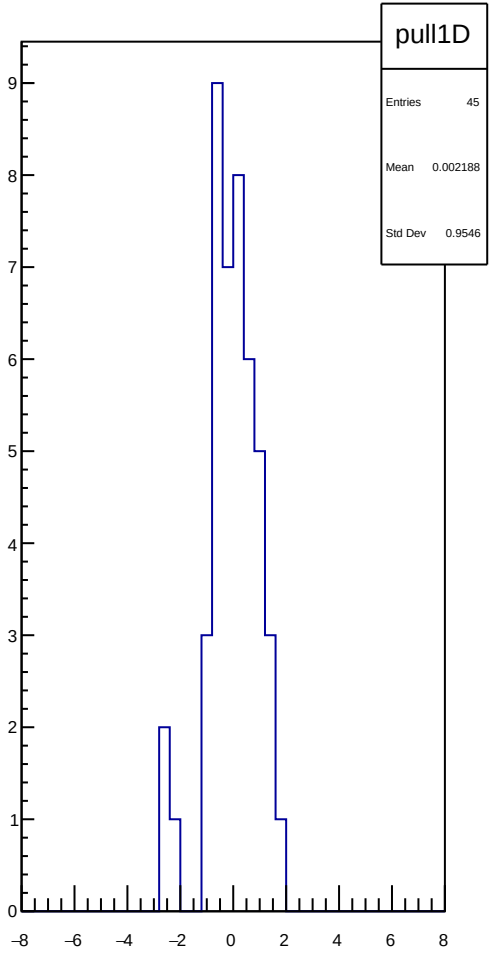

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.078e+04 / 44
p0 1.239e+04 ± 13.09
20000
18000
16000
14000
12000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

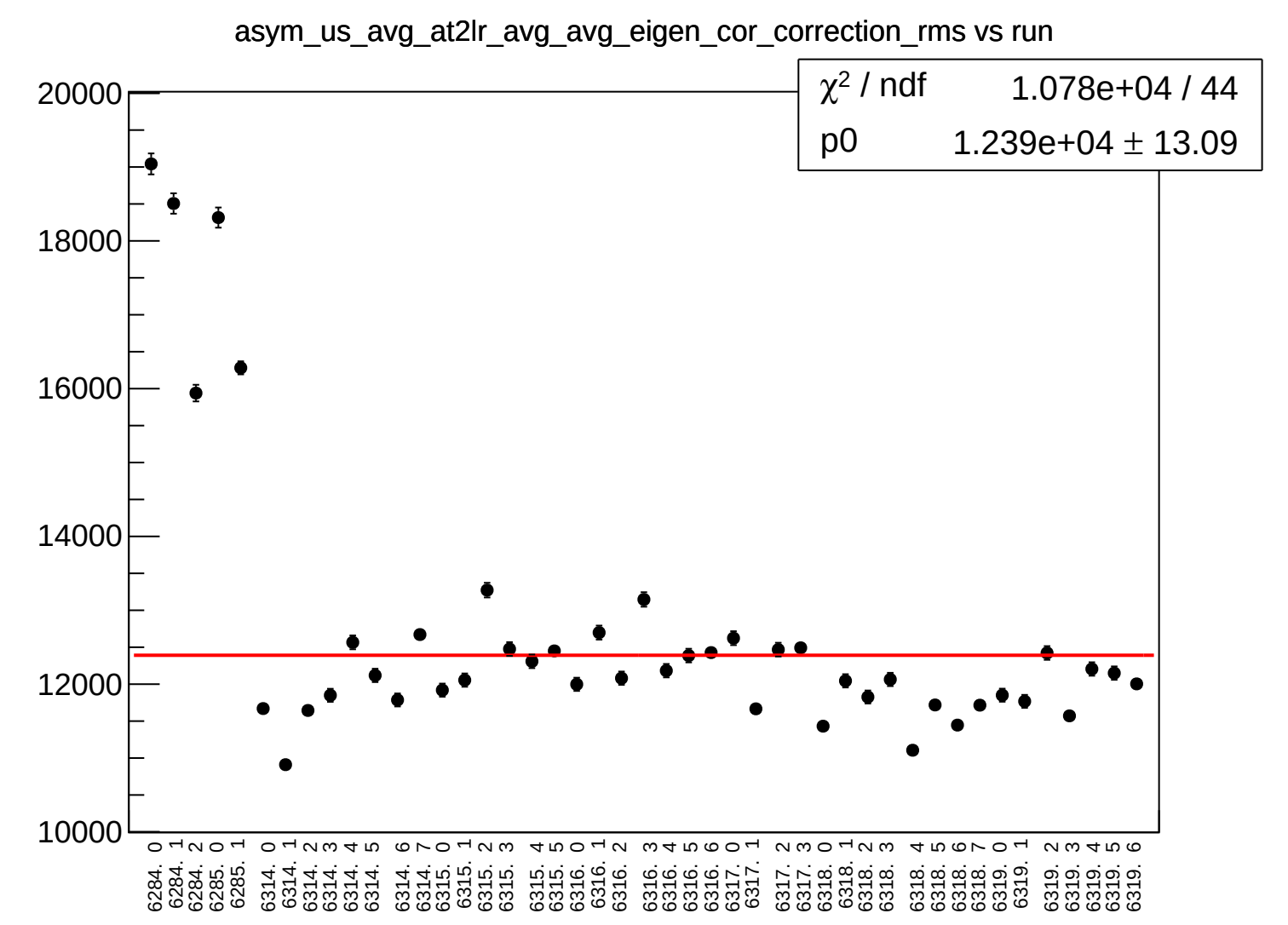

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 41.54 / 44
p0 −1498 ± 4037
pull
Entries 45
Mean 210.2
Std Dev 0

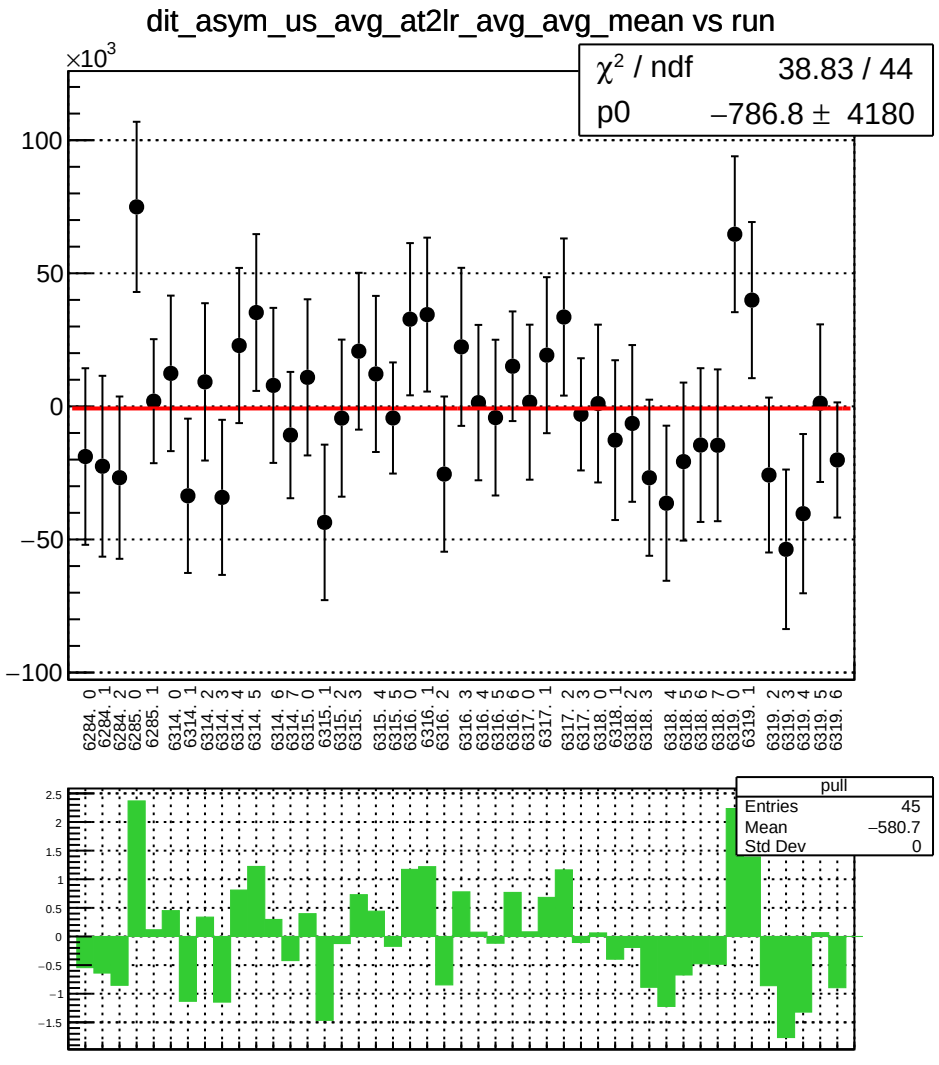

pull1D
Entries 45
Mean −0.006583
Std Dev 0.9608

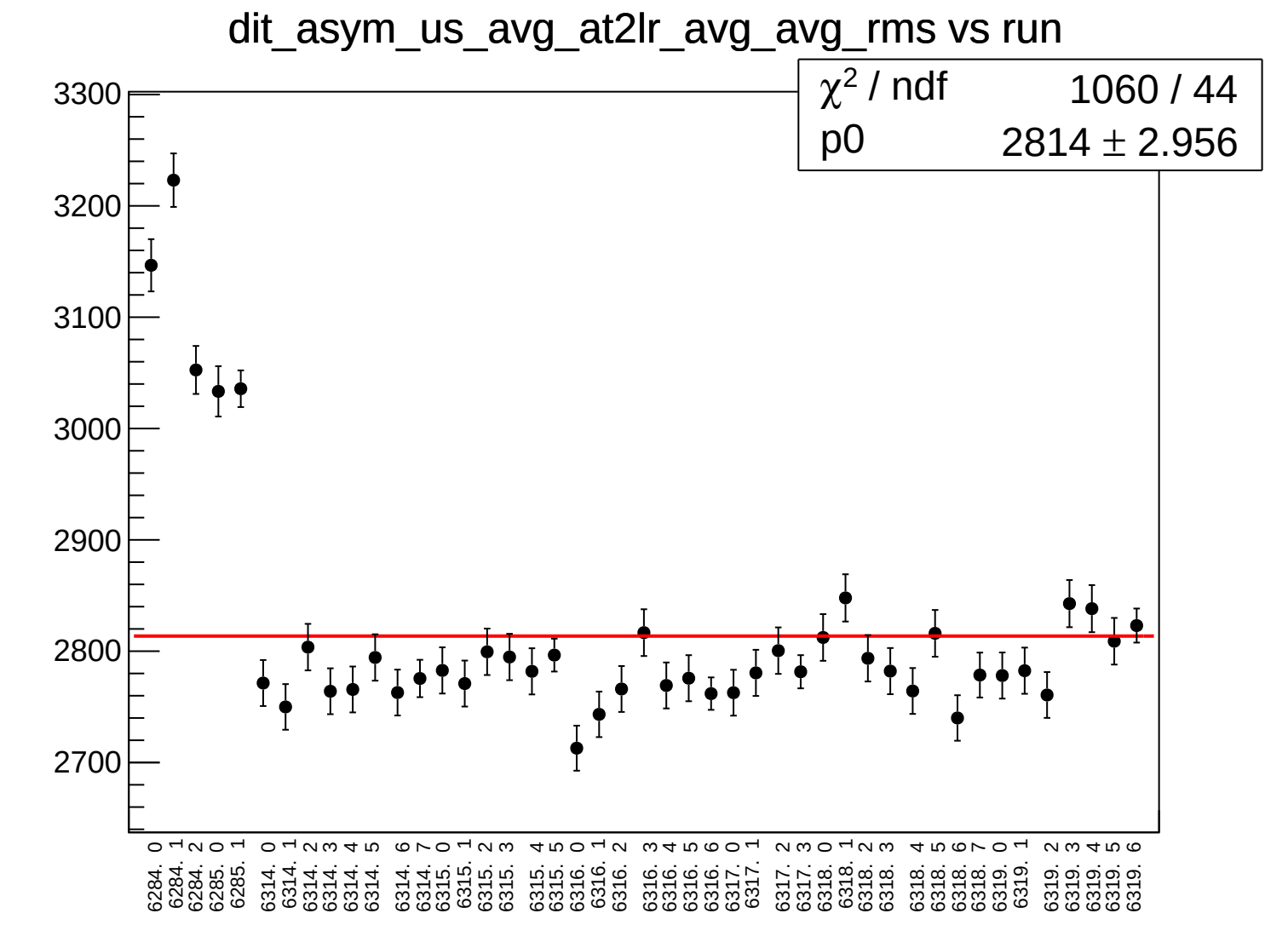

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 203.8 / 44
p0 2718 ± 2.854
2850
2800
2750
2700
2650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

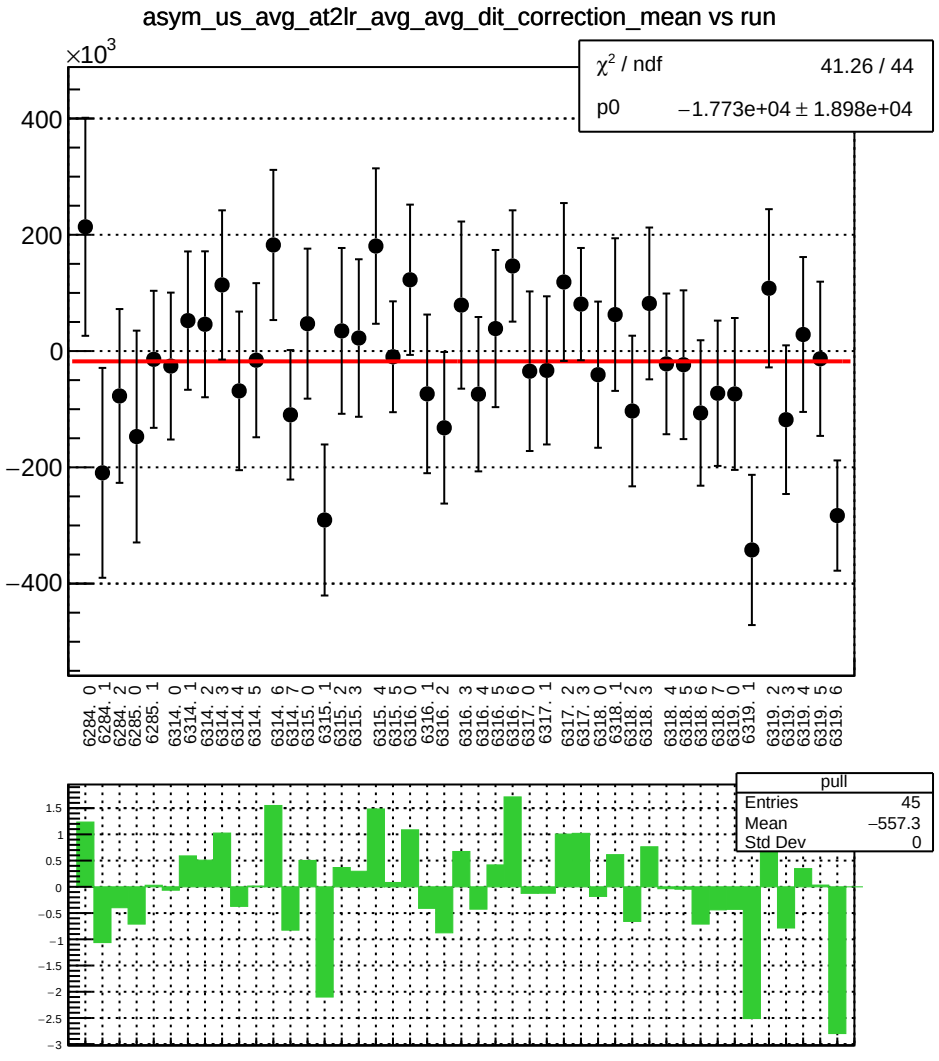

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −1.819e+04 ± 1.851e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1141
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

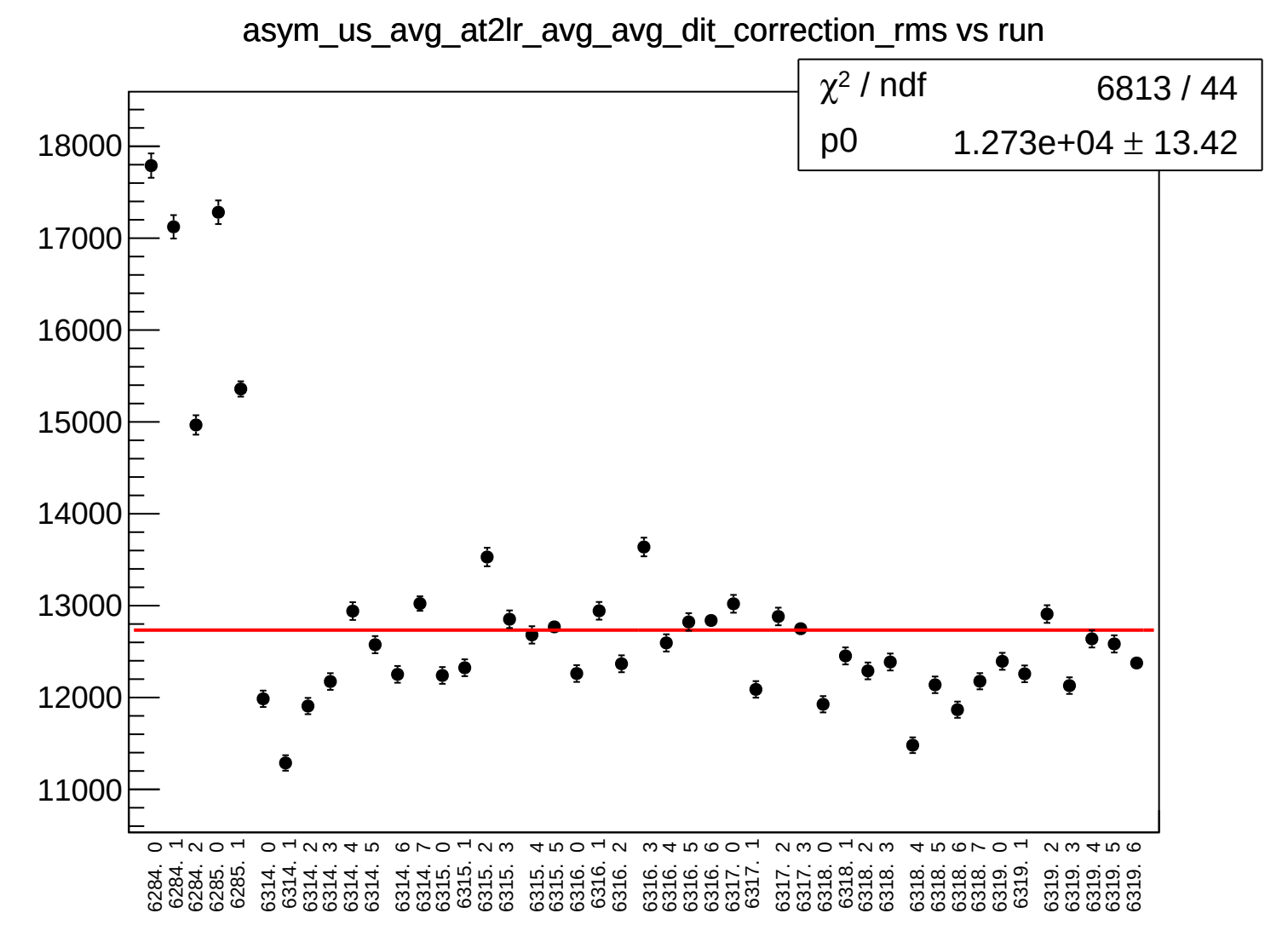

pull1D
Entries 45
Mean 0.002188
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.078e+04 / 44
p0 1.239e+04 ± 13.09
20000
18000
16000
14000
12000
10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 38.83 / 44
p0 −786.8 ± 4180
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −580.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.00309
Std Dev 0.9289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1060 / 44
p0 2814 ± 2.956
3300
3200
3100
3000
2900
2800
2700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 −1.773e+04 ± 1.898e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −557.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.004428
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6813 / 44
p0 1.273e+04 ± 13.42
18000
17000
16000
15000
14000
13000
12000
11000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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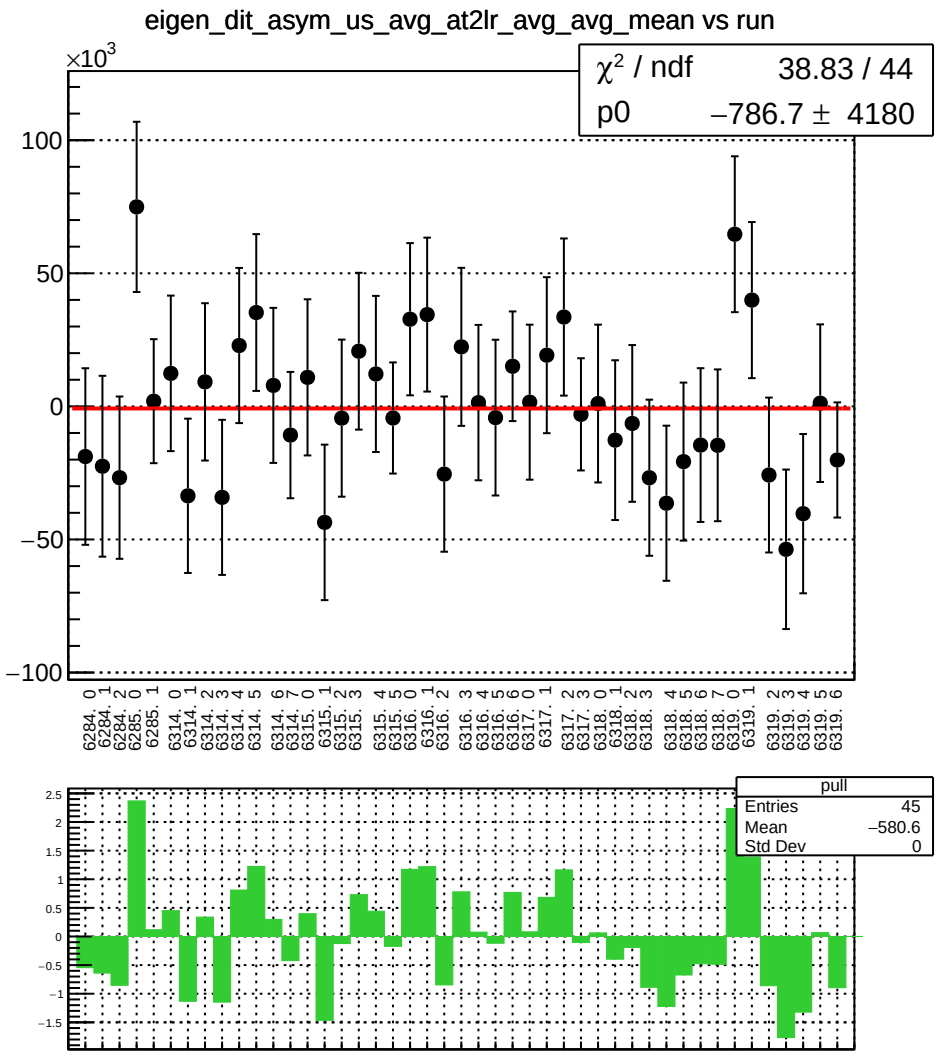
6319. 5
6319. 6


eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 38.83 / 44
p0 −786.7 ± 4180
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
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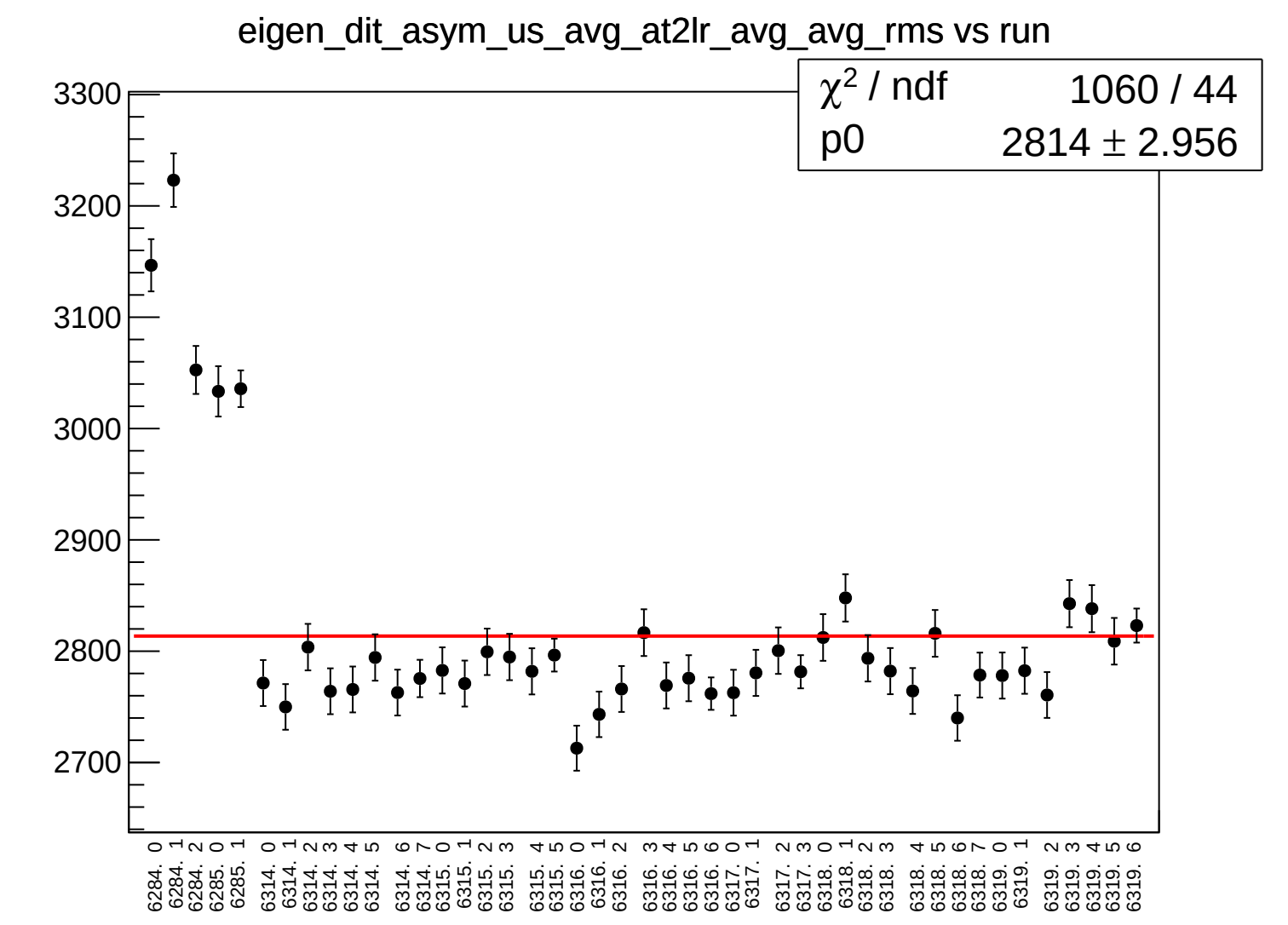
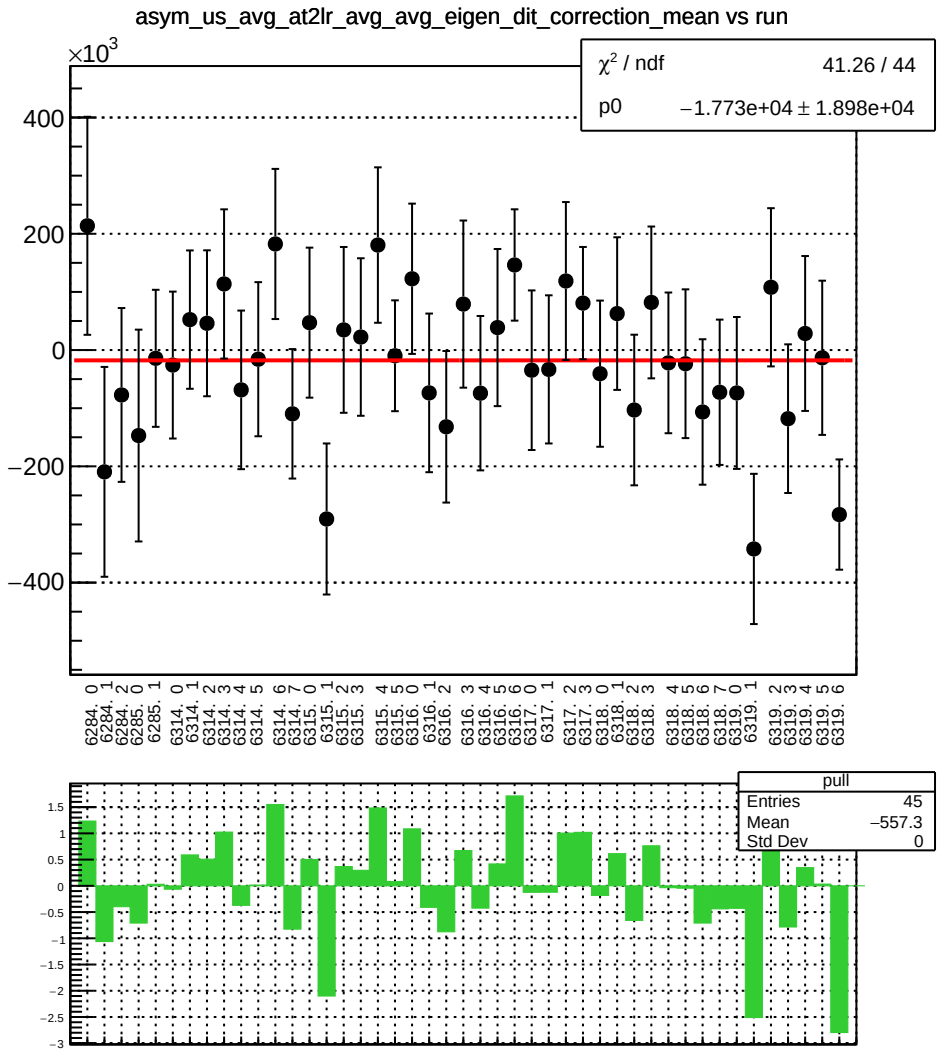
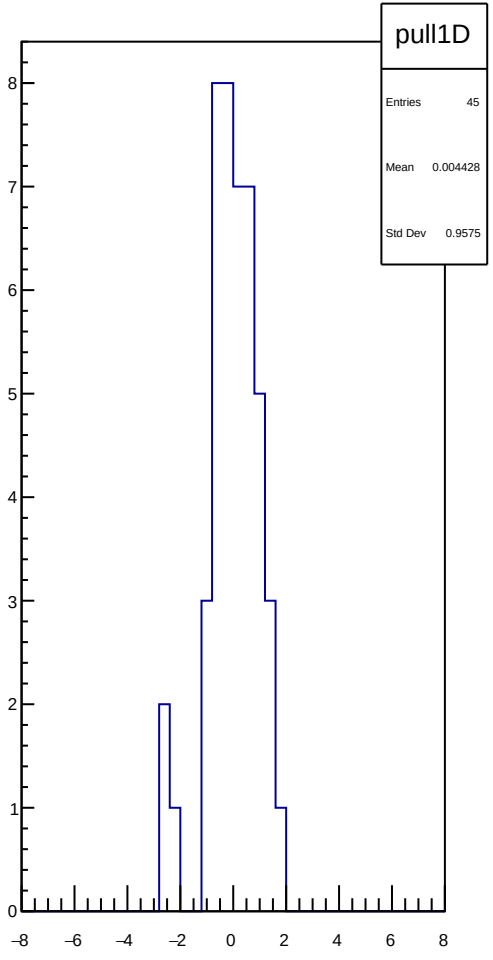
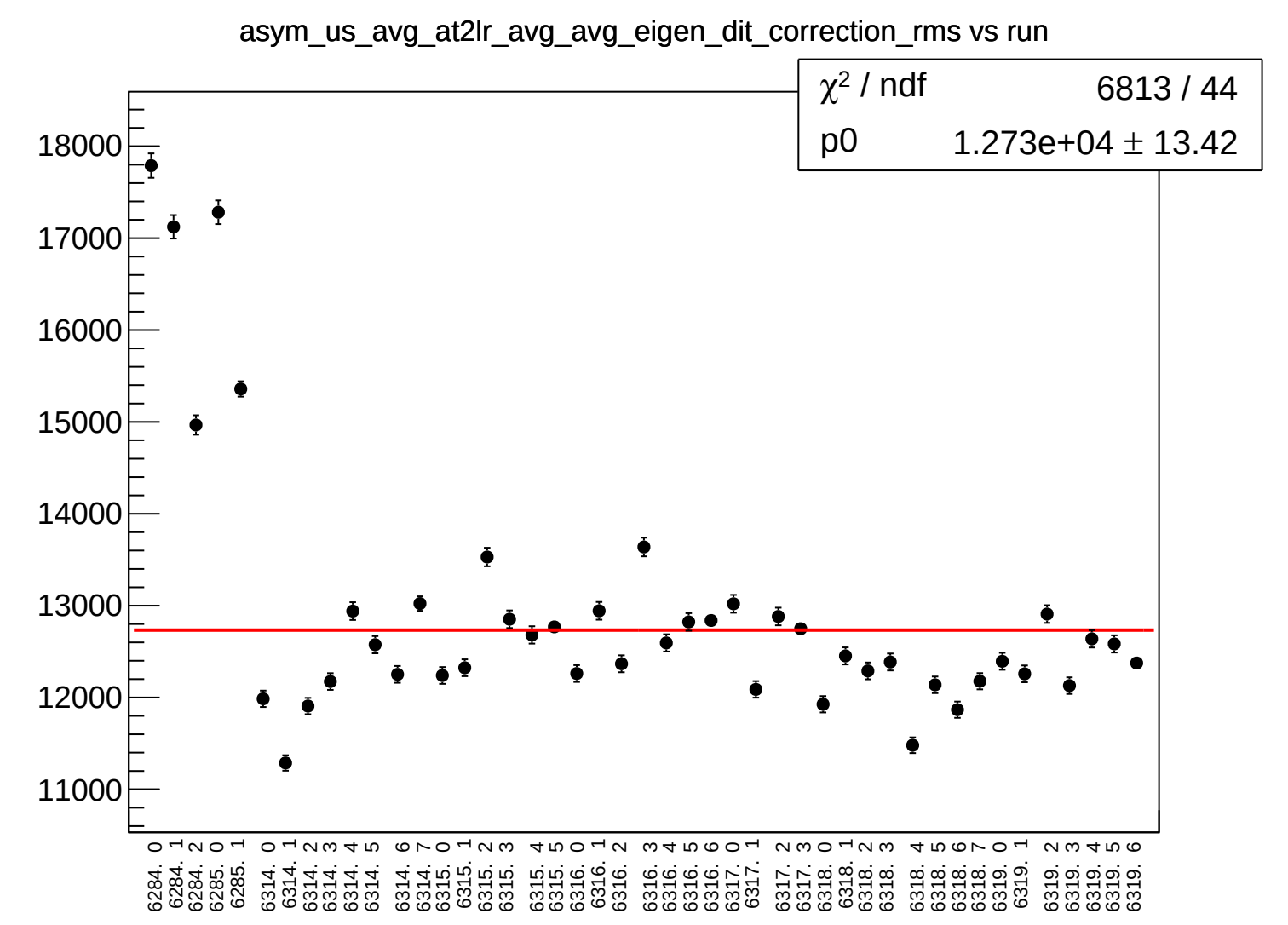
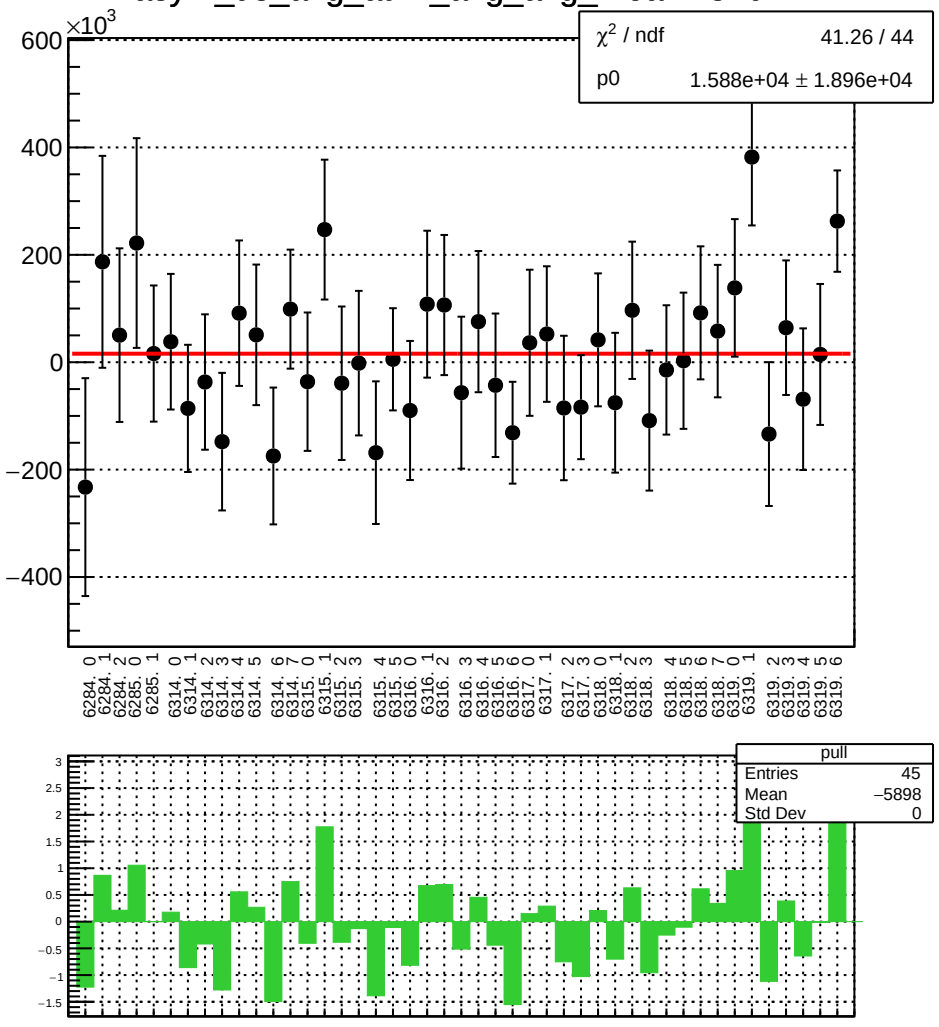
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −580.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.00309
Std Dev 0.9289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

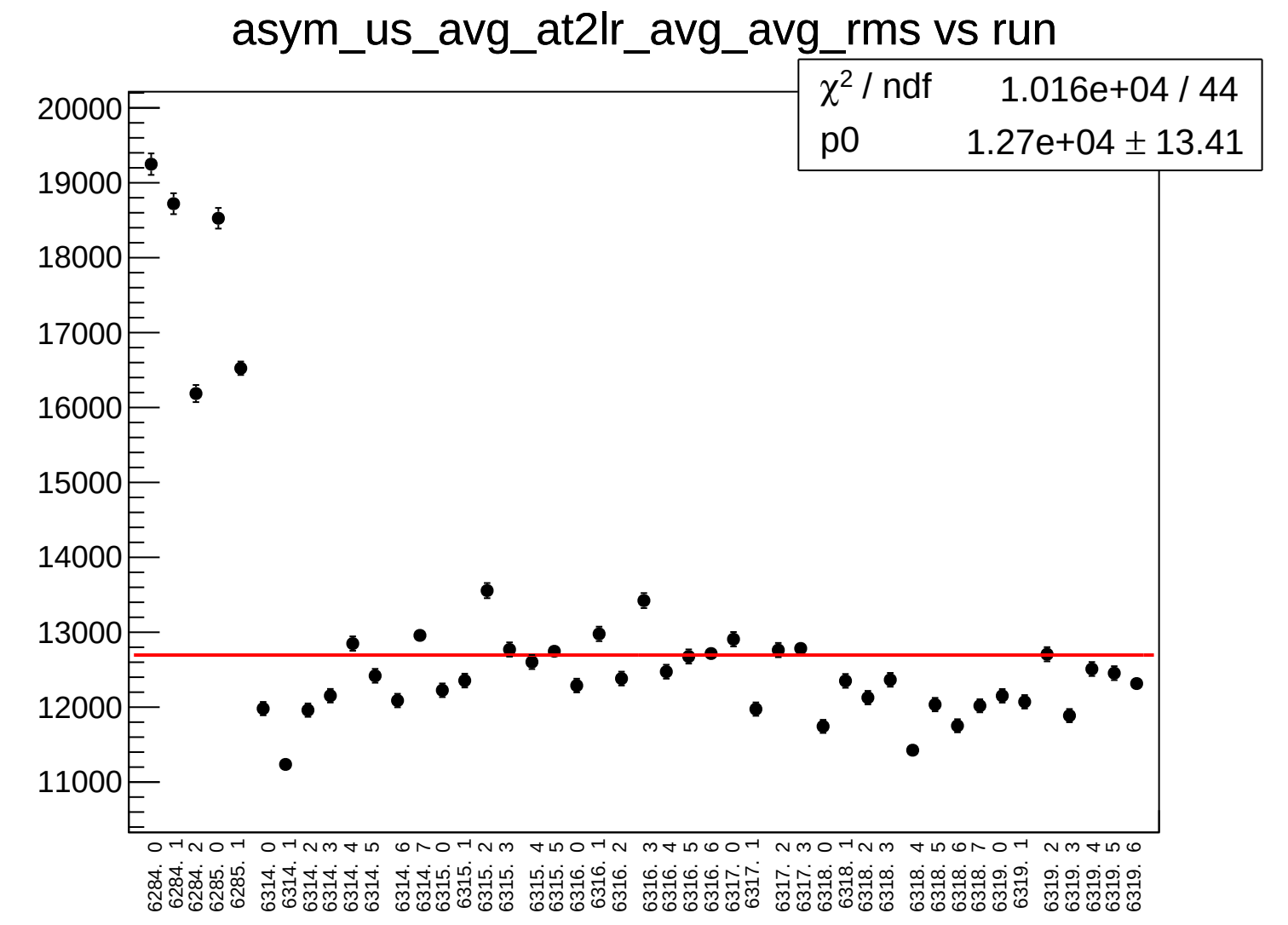

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1060 / 44
p0 2814 ± 2.956
3300
3200
3100
3000
2900
2800
2700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

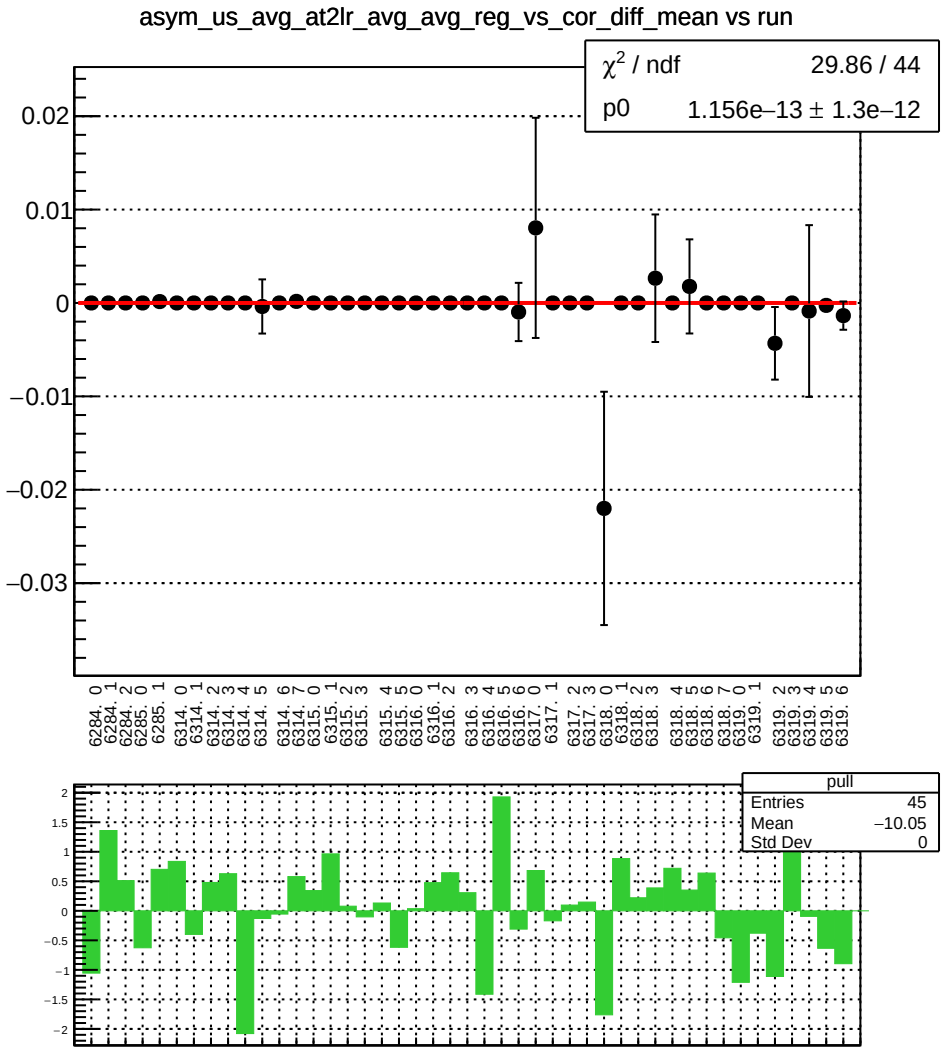

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 −1.773e+04 ± 1.898e+04
400
200
0
−200
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −557.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

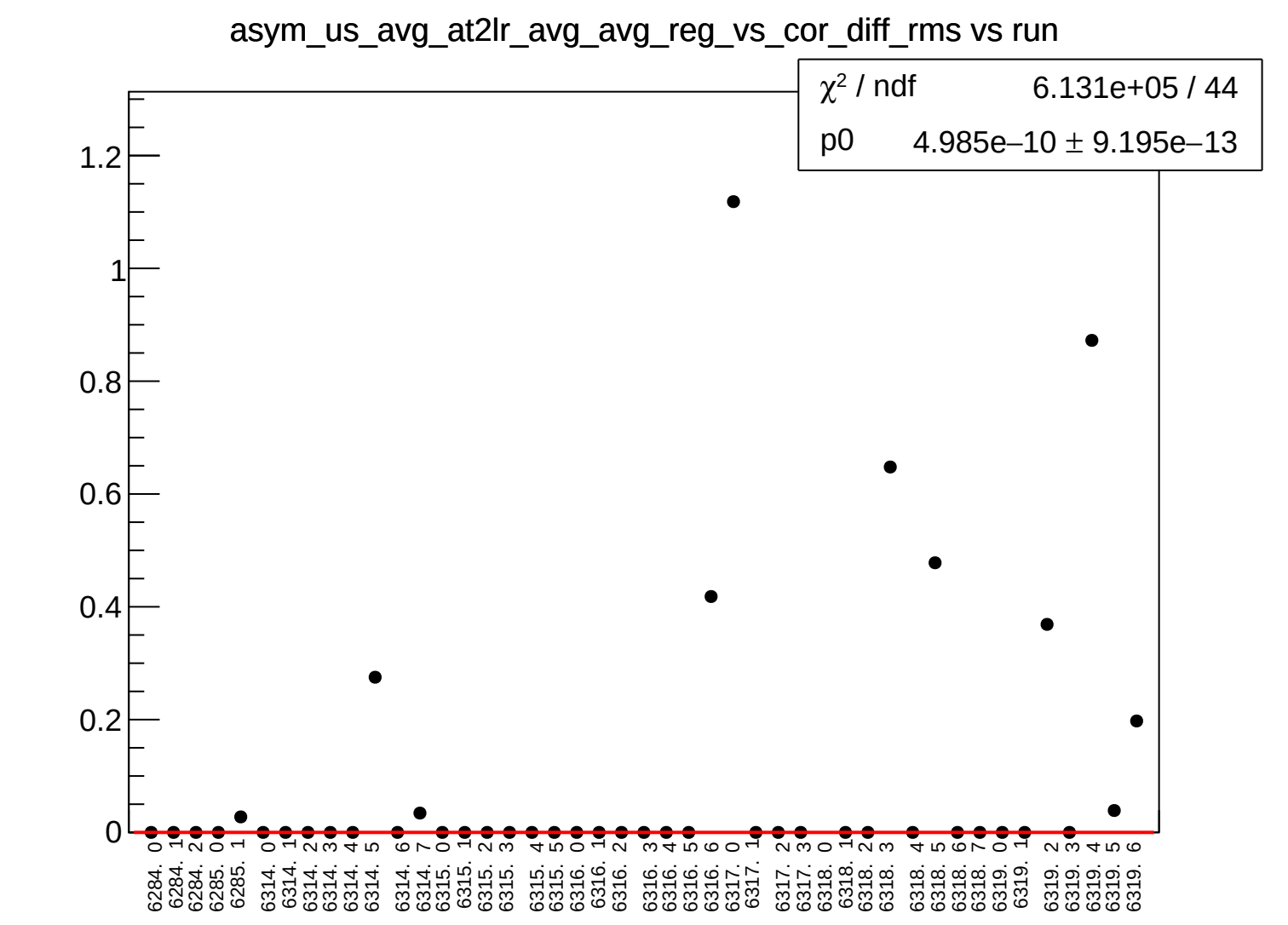

pull1D
Entries 45
Mean 0.004428
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

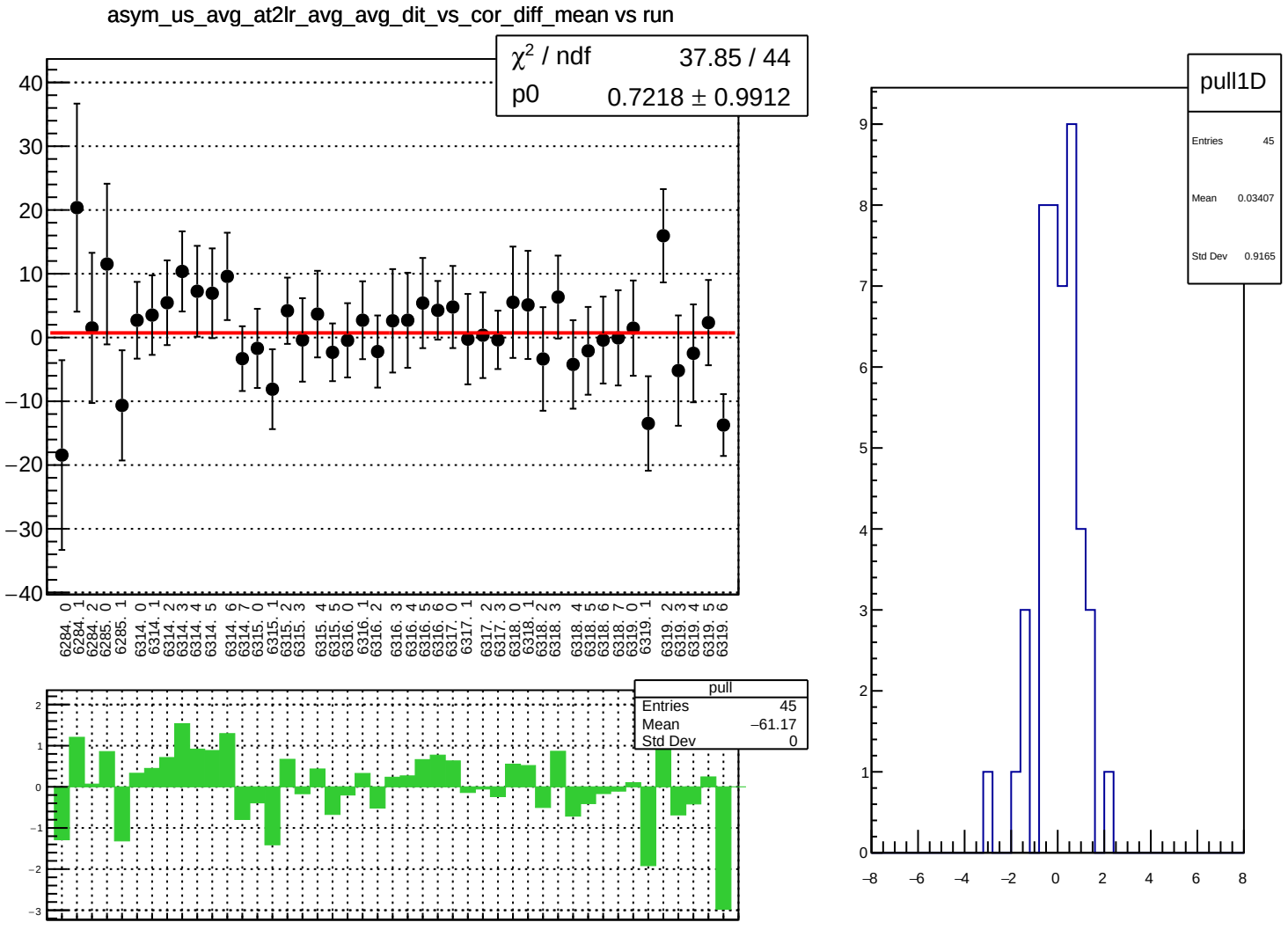

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6813 / 44
p0 1.273e+04 ± 13.42
18000
17000
16000
15000
14000
13000
12000
11000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

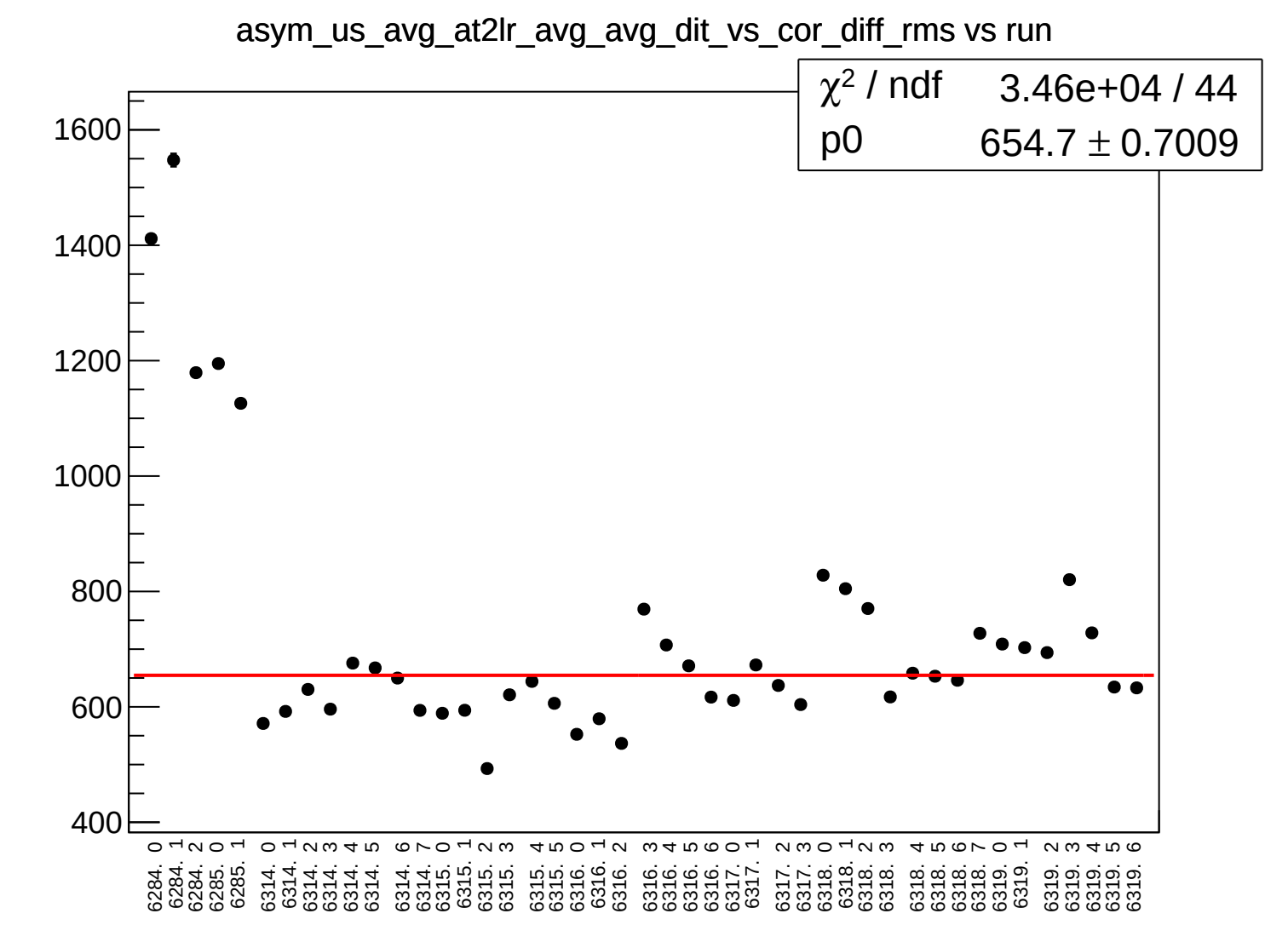

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 41.26 / 44
p0 1.588e+04 ± 1.896e+04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −5898
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0003762
Std Dev 0.9575
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

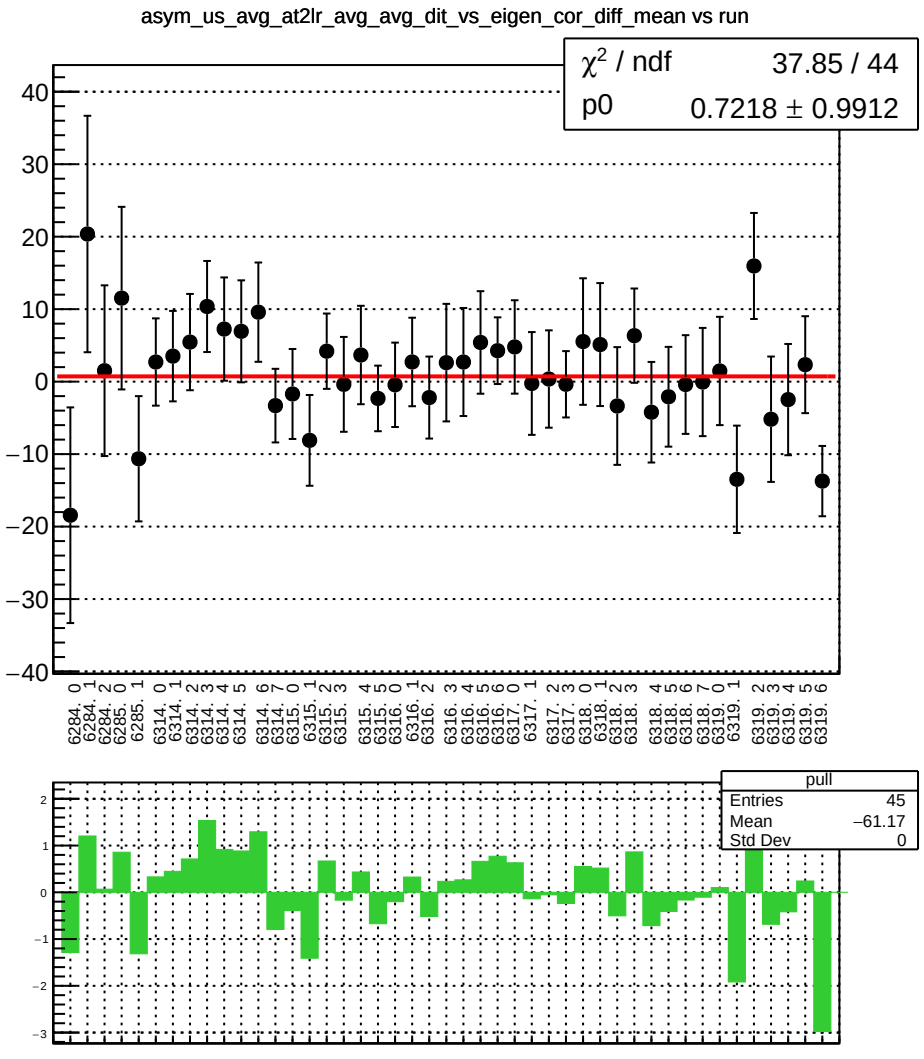

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.016e+04 / 44
p0 1.27e+04 ± 13.41
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

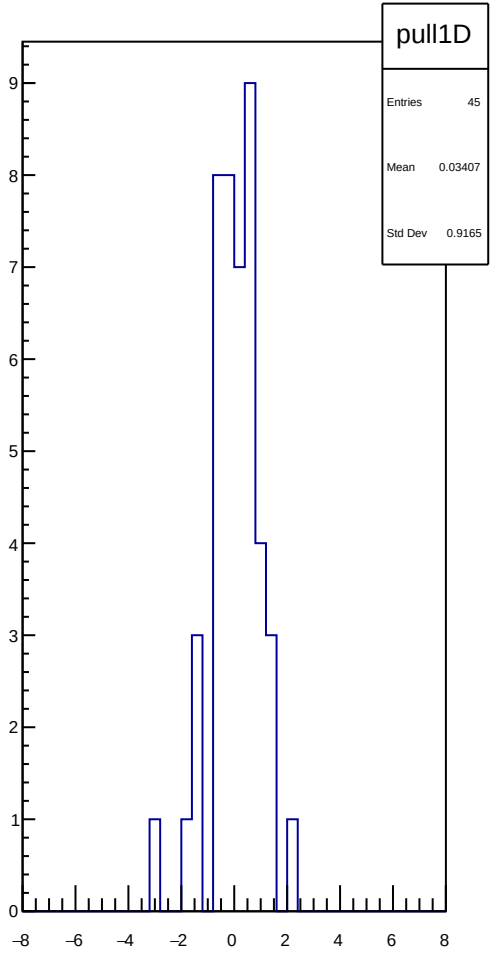

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.86 / 44
p0 1.156e–13 ± 1.3e–12
0.02
0.01
0
–0.01
–0.02
–0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean –10.05
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
pull1D
Entries 45
Mean 0.04298
Std Dev 0.8135
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

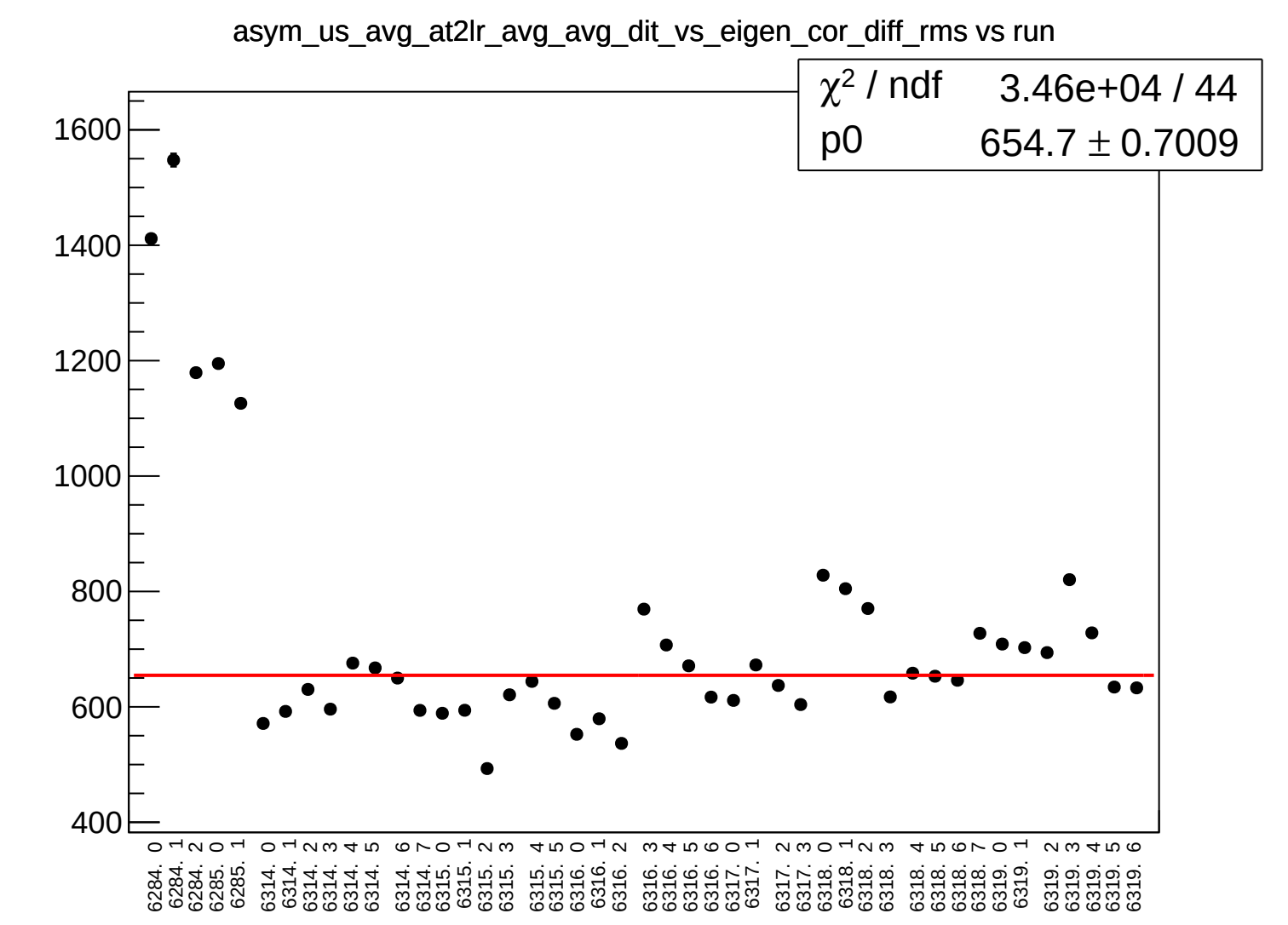

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.131e+05 / 44
p0 4.985e−10 ± 9.195e−13
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

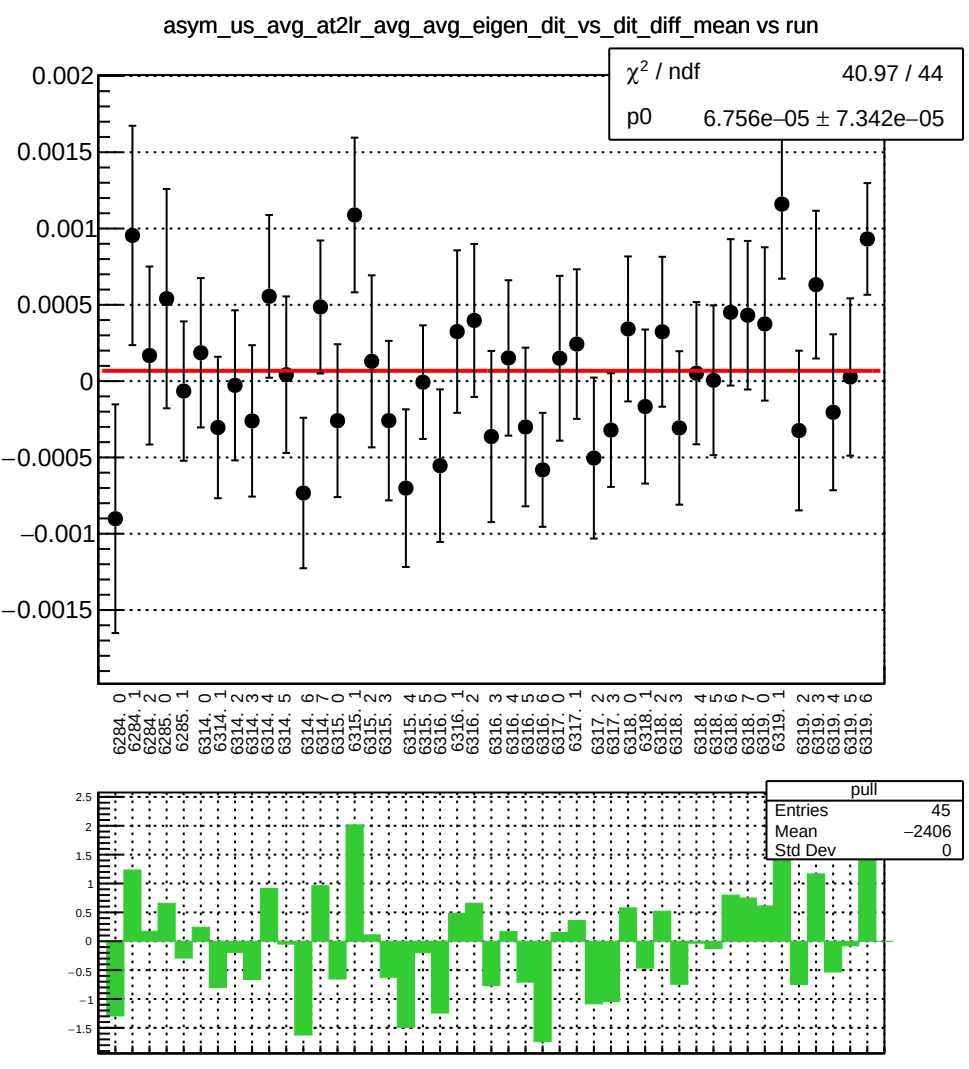

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.85 / 44
p0 0.7218 ± 0.9912
pull
Entries 45
Mean −61.17
Std Dev 0
pull1D
Entries 45
Mean 0.03407
Std Dev 0.9165

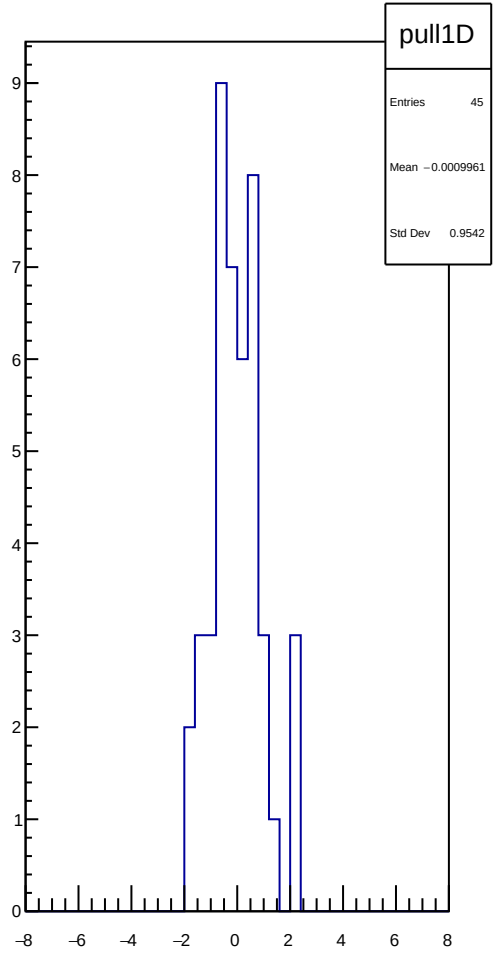

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.46e+04 / 44
p0 654.7 ± 0.7009
1600
1400
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

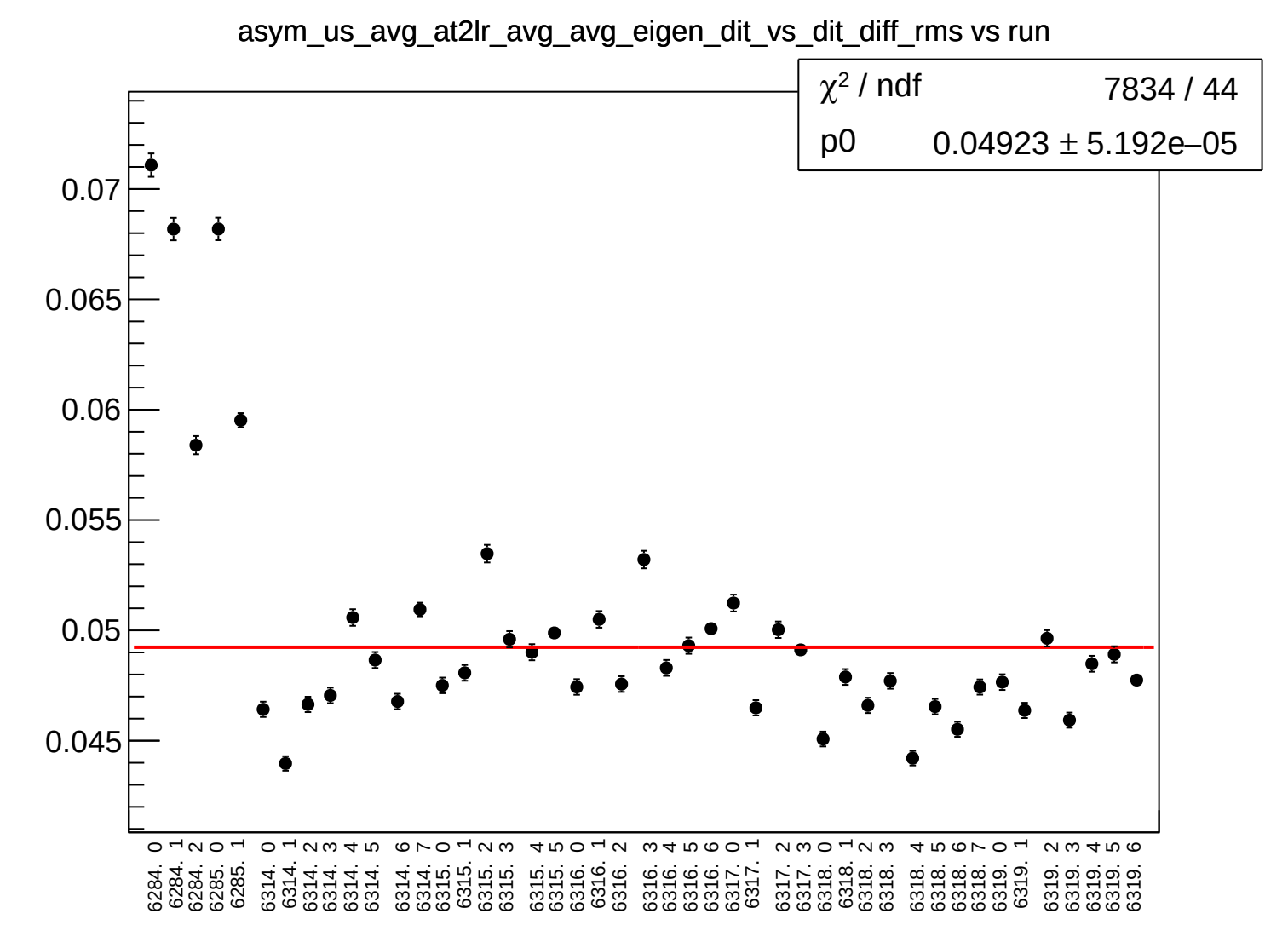

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.85 / 44
p0 0.7218 ± 0.9912
pull
Entries 45
Mean −61.17
Std Dev 0

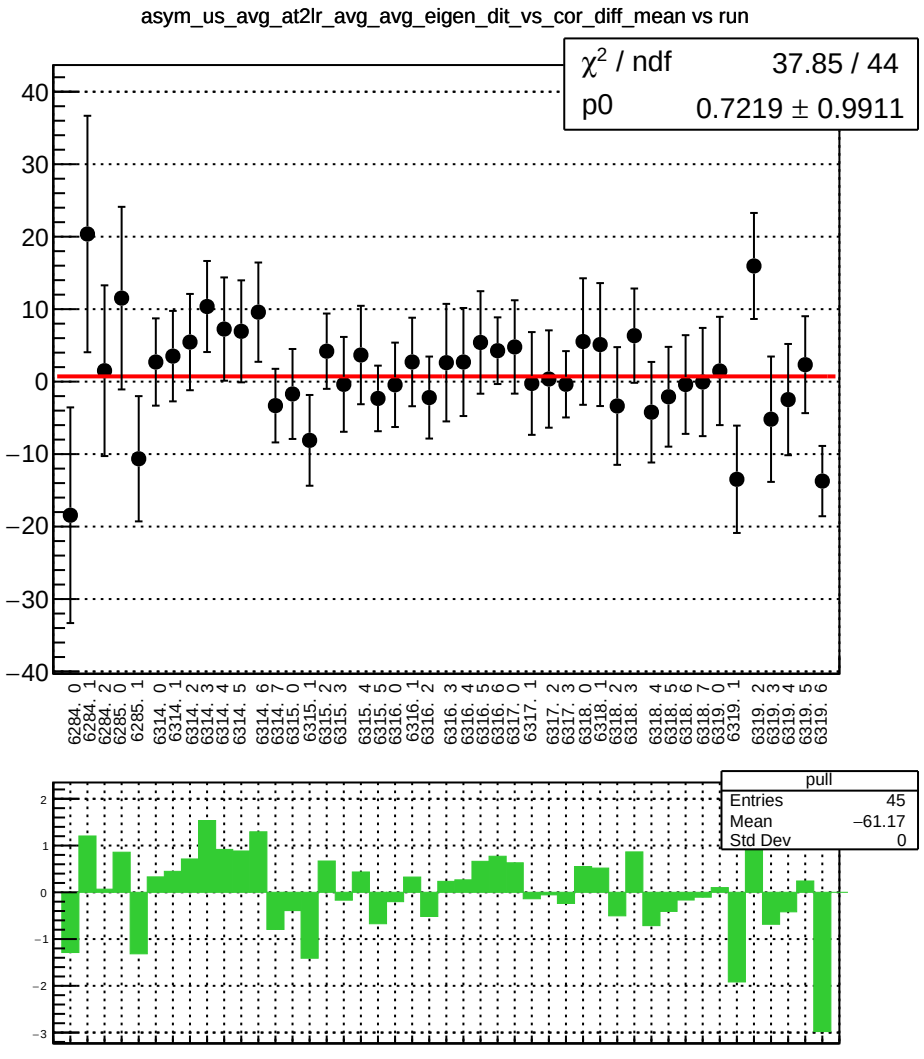

pull1D
Entries 45
Mean 0.03407
Std Dev 0.9165

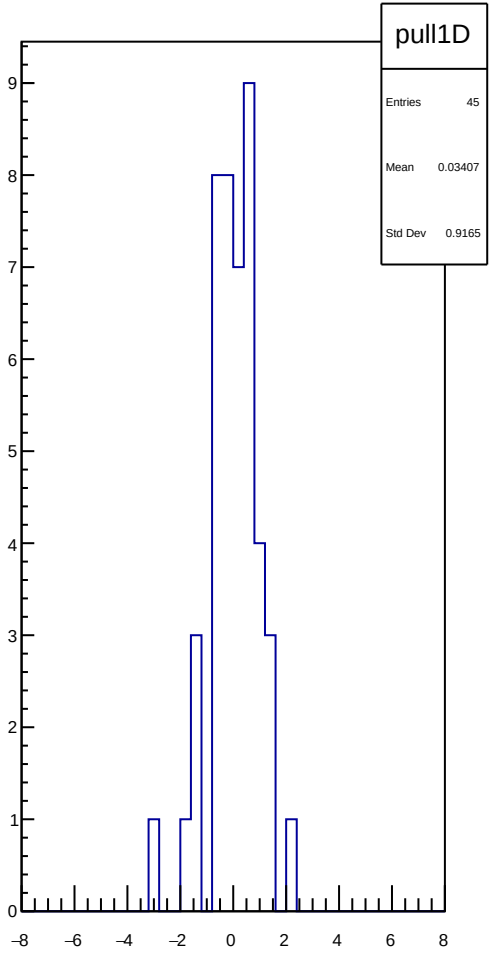

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.46e+04 / 44
p0 654.7 ± 0.7009
1600
1400
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

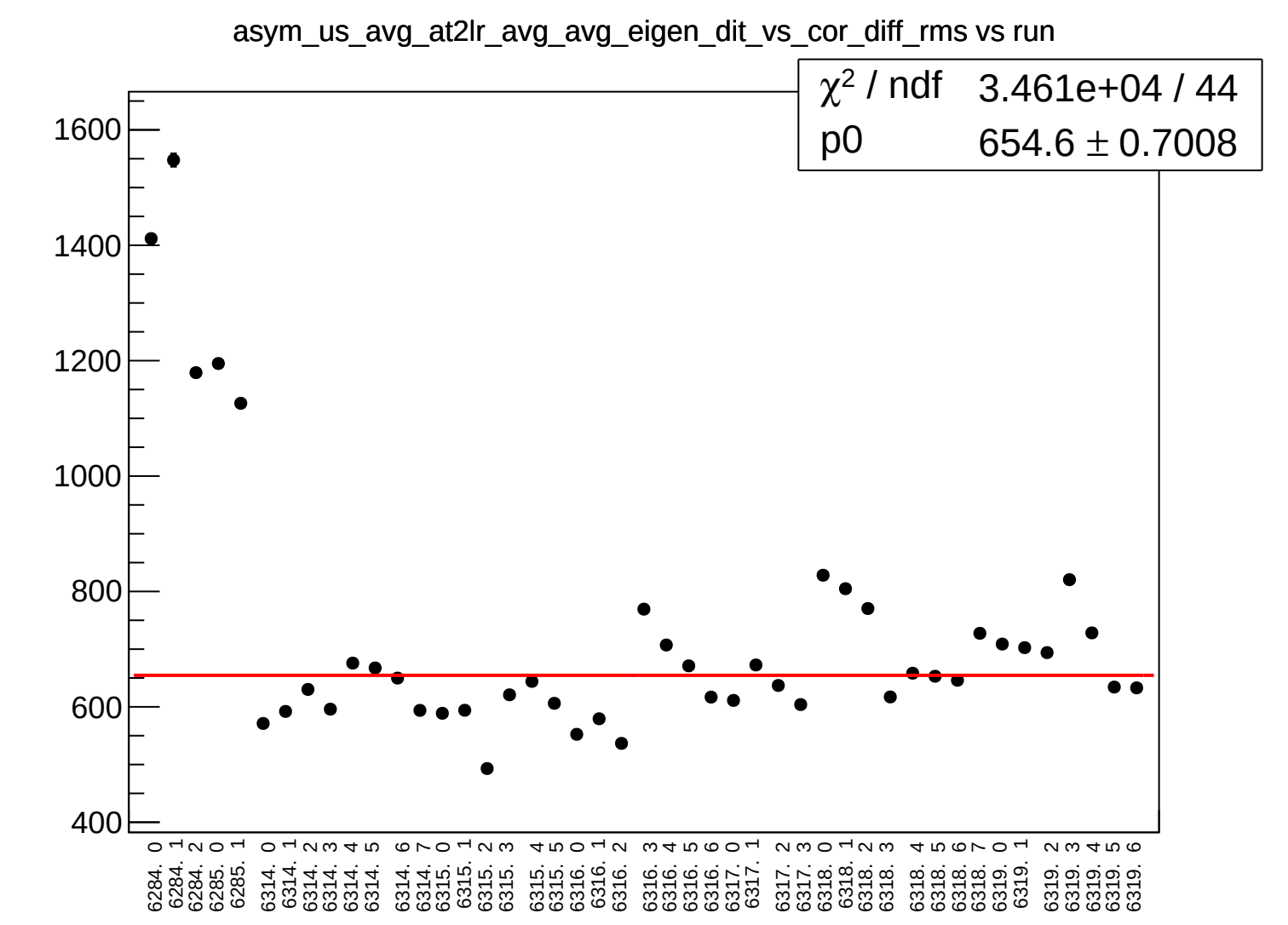

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.97 / 44
p0 6.756e−05 ± 7.342e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2406
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

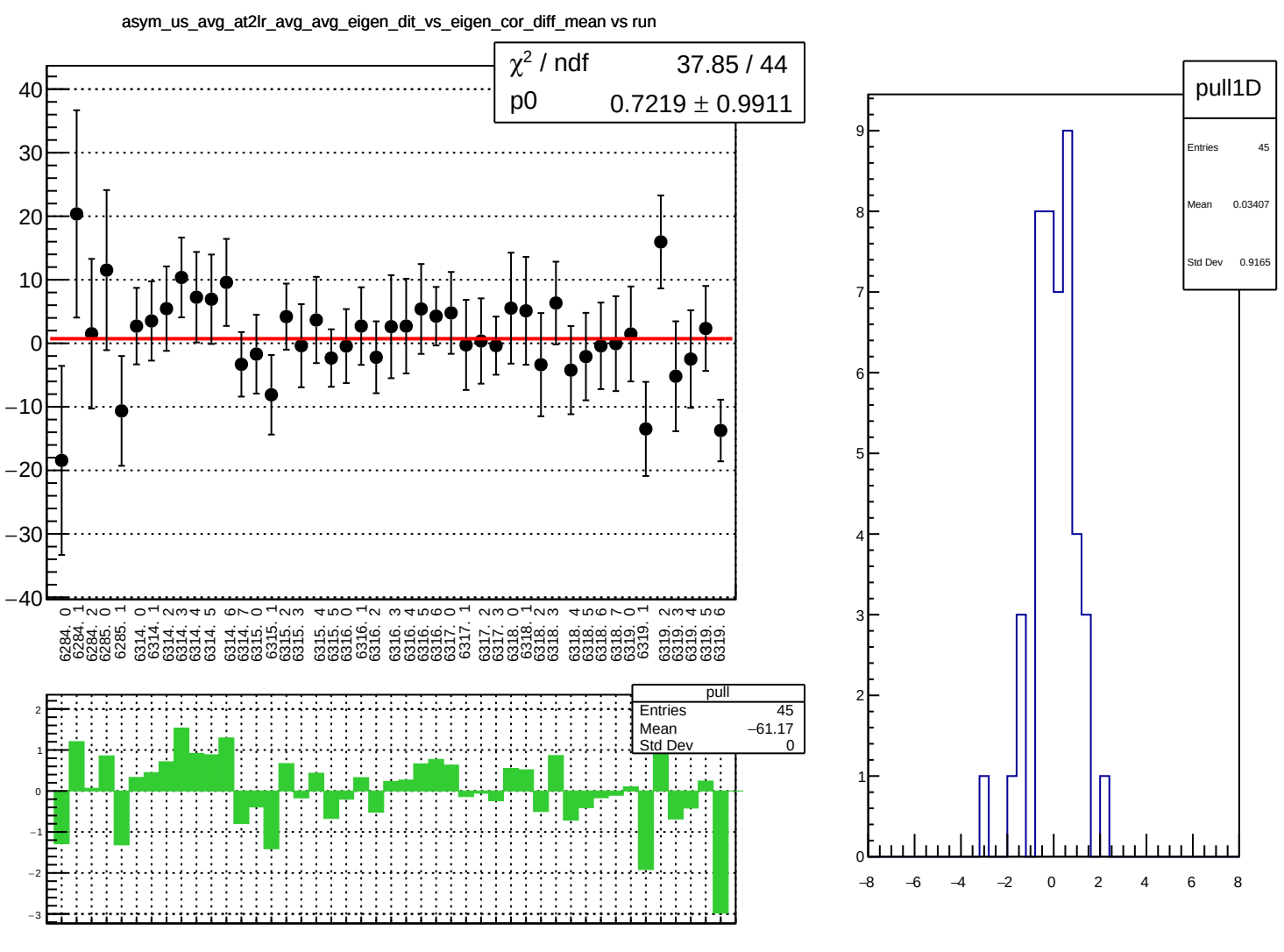

pull1D
Entries 45
Mean −0.0009961
Std Dev 0.9542
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

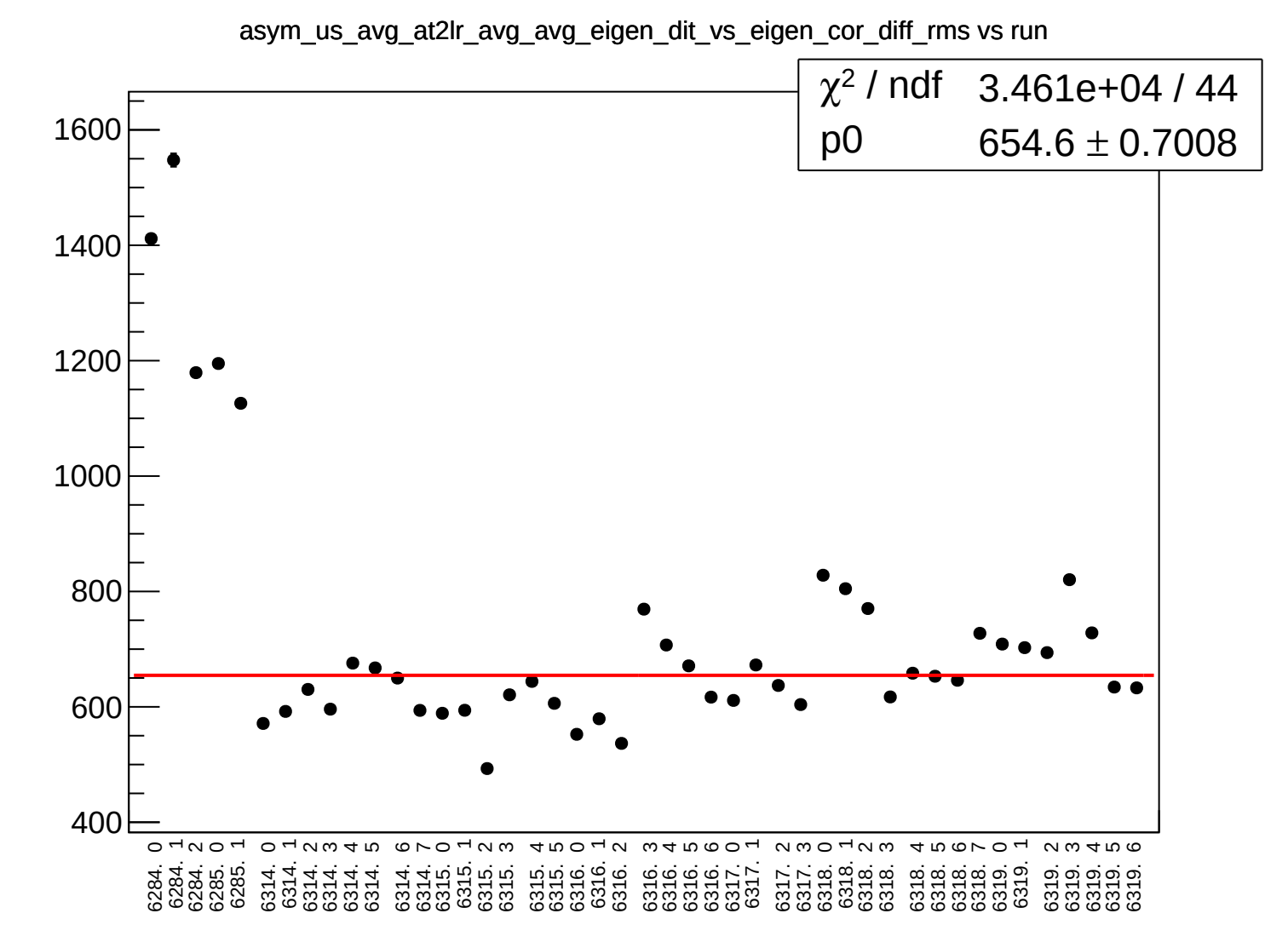

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7834 / 44
p0 0.04923 ± 5.192e−05
0.07
0.065
0.06
0.055
0.05
0.045
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

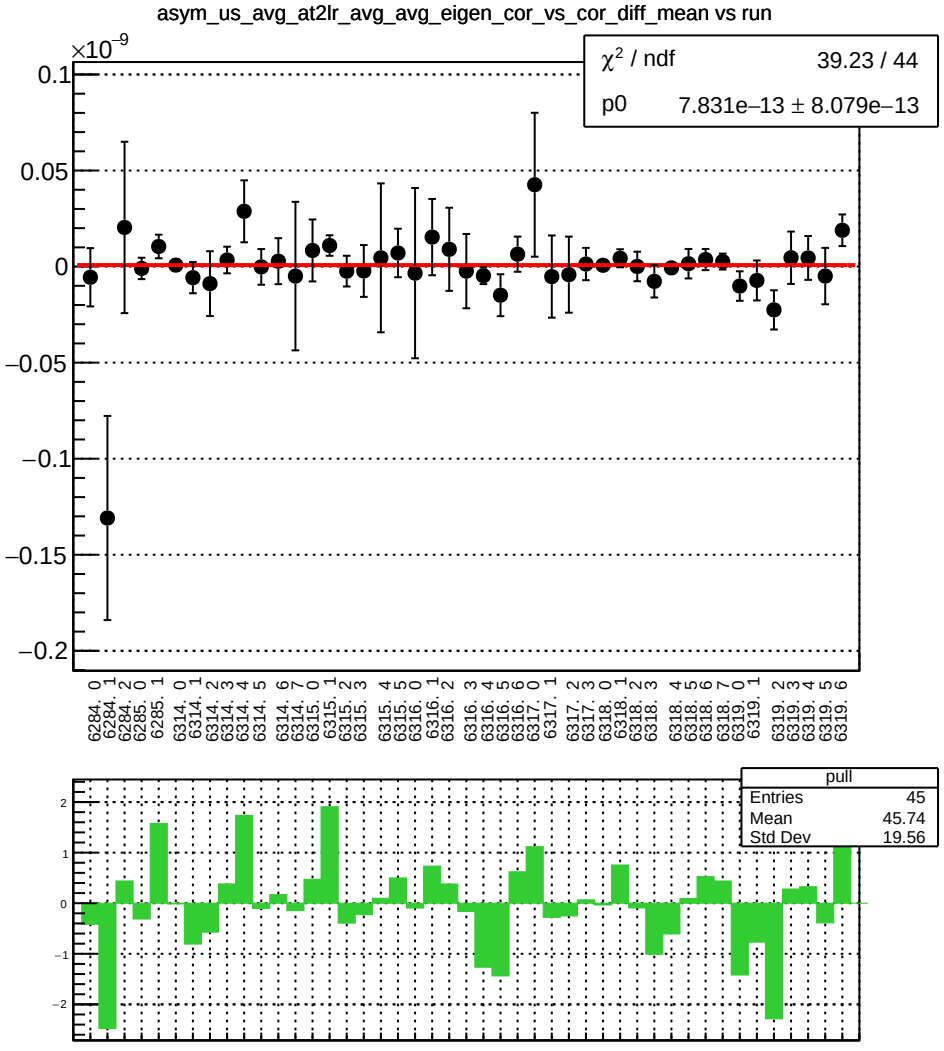

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.85 / 44
p0 0.7219 ± 0.9911
pull
Entries 45
Mean −61.17
Std Dev 0

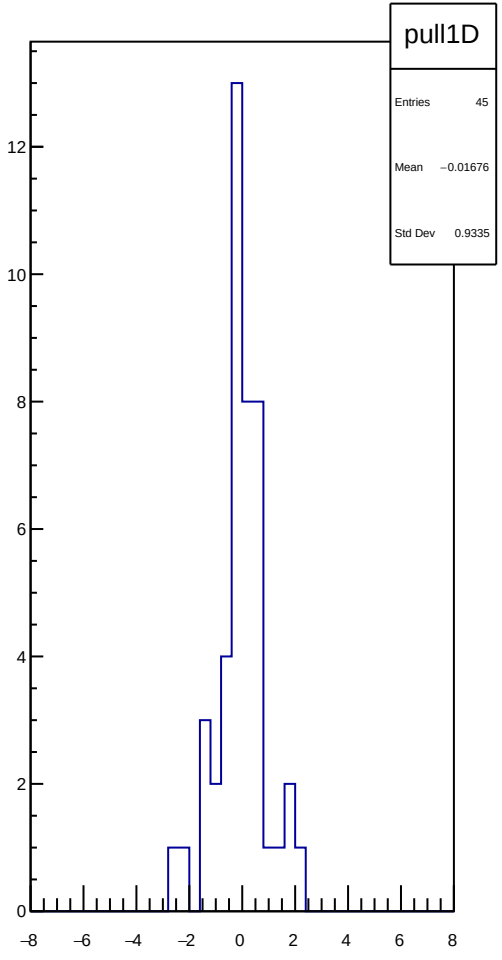

pull1D
Entries 45
Mean 0.03407
Std Dev 0.9165

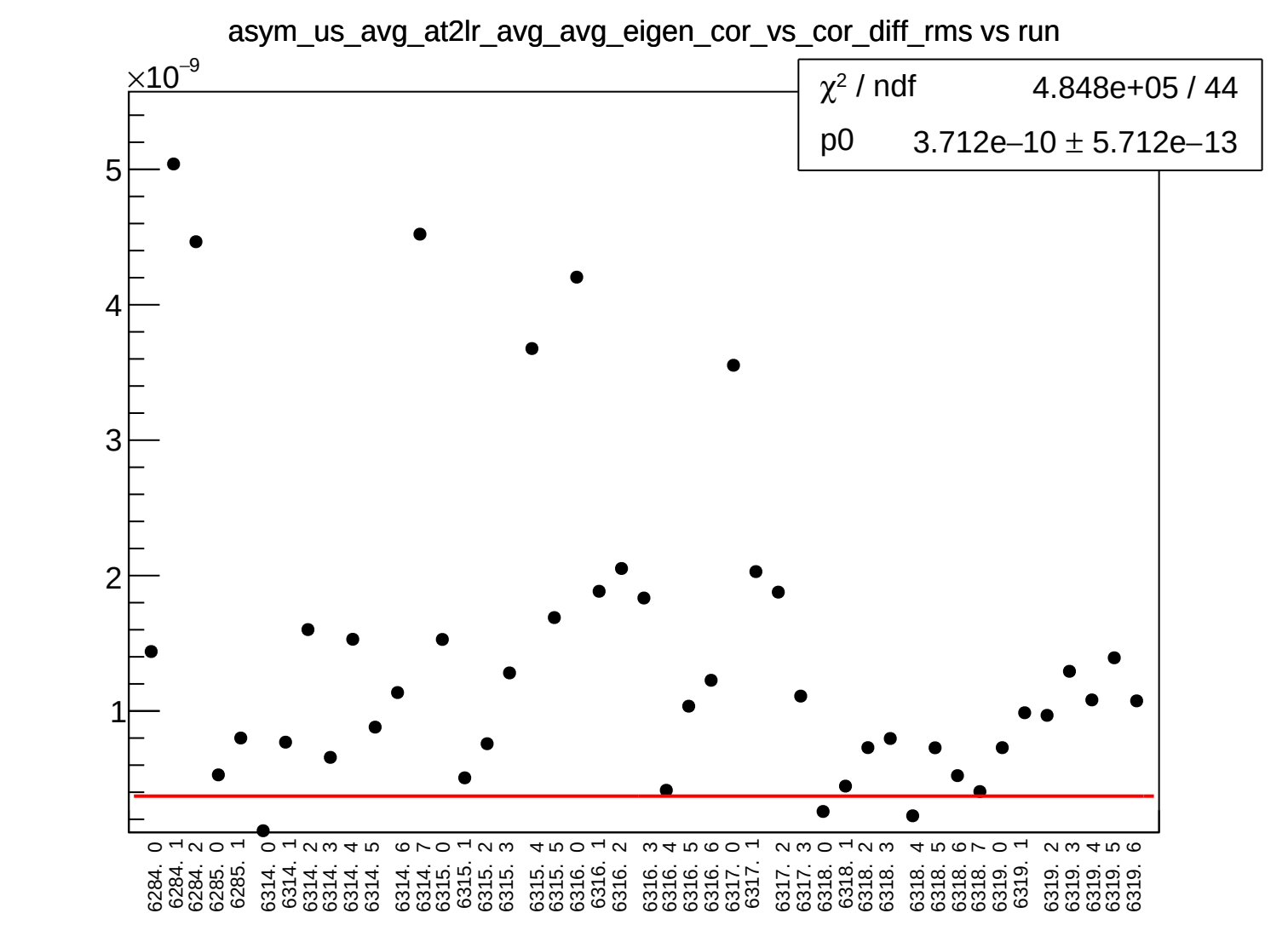

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.461e+04 / 44
p0 654.6 ± 0.7008
1600
1400
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.85 / 44
p0 0.7219 ± 0.9911
pull
Entries 45
Mean −61.17
Std Dev 0
pull1D
Entries 45
Mean 0.03407
Std Dev 0.9165


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.461e+04 / 44
p0 654.6 ± 0.7008
1600
1400
1200
1000
800
600
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 39.23 / 44
p0 7.831e−13 ± 8.079e−13
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 45.74
Std Dev 19.56
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01676
Std Dev 0.9335
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.848e+05 / 44
p0 3.712e−10 ± 5.712e−13
5
4
3
2
1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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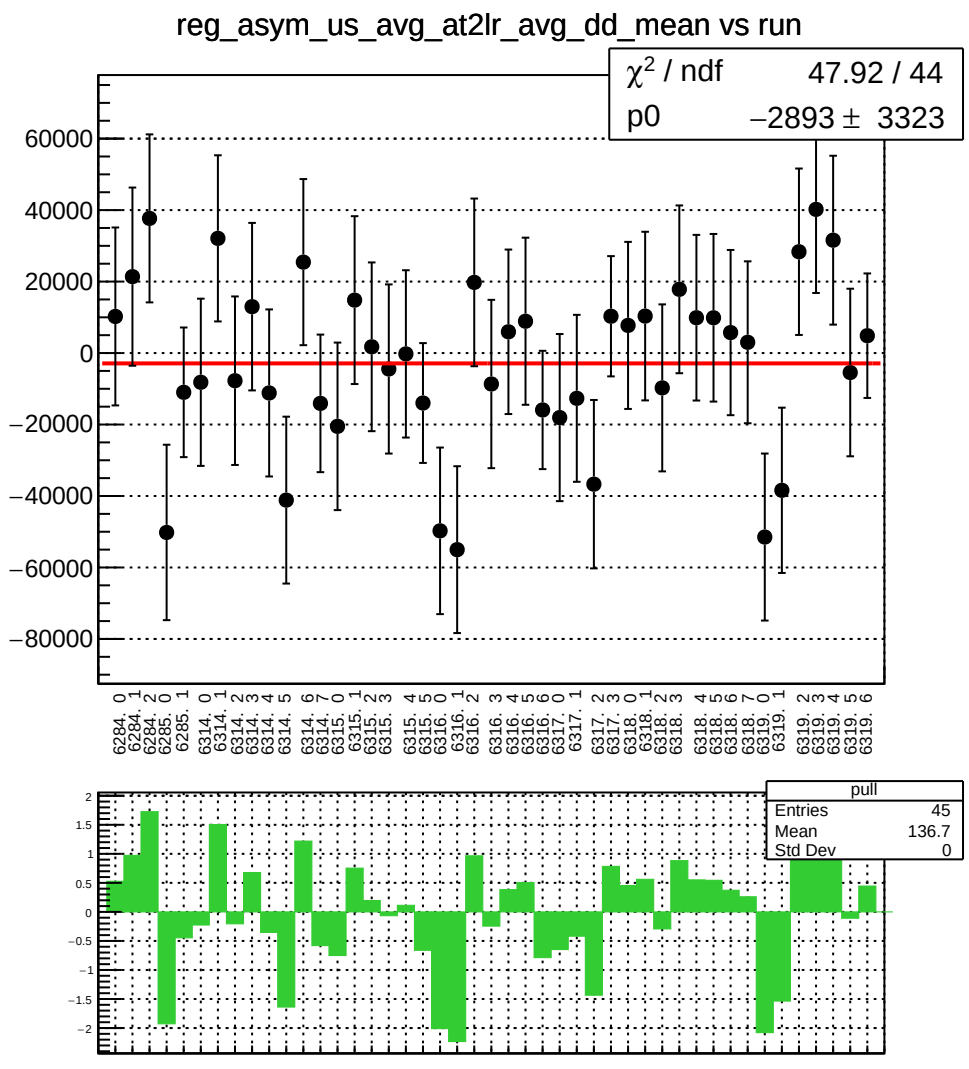
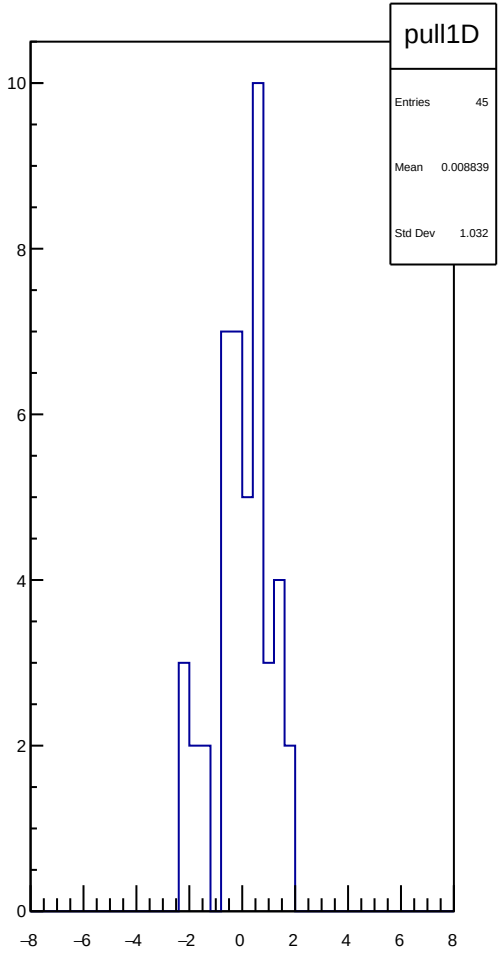
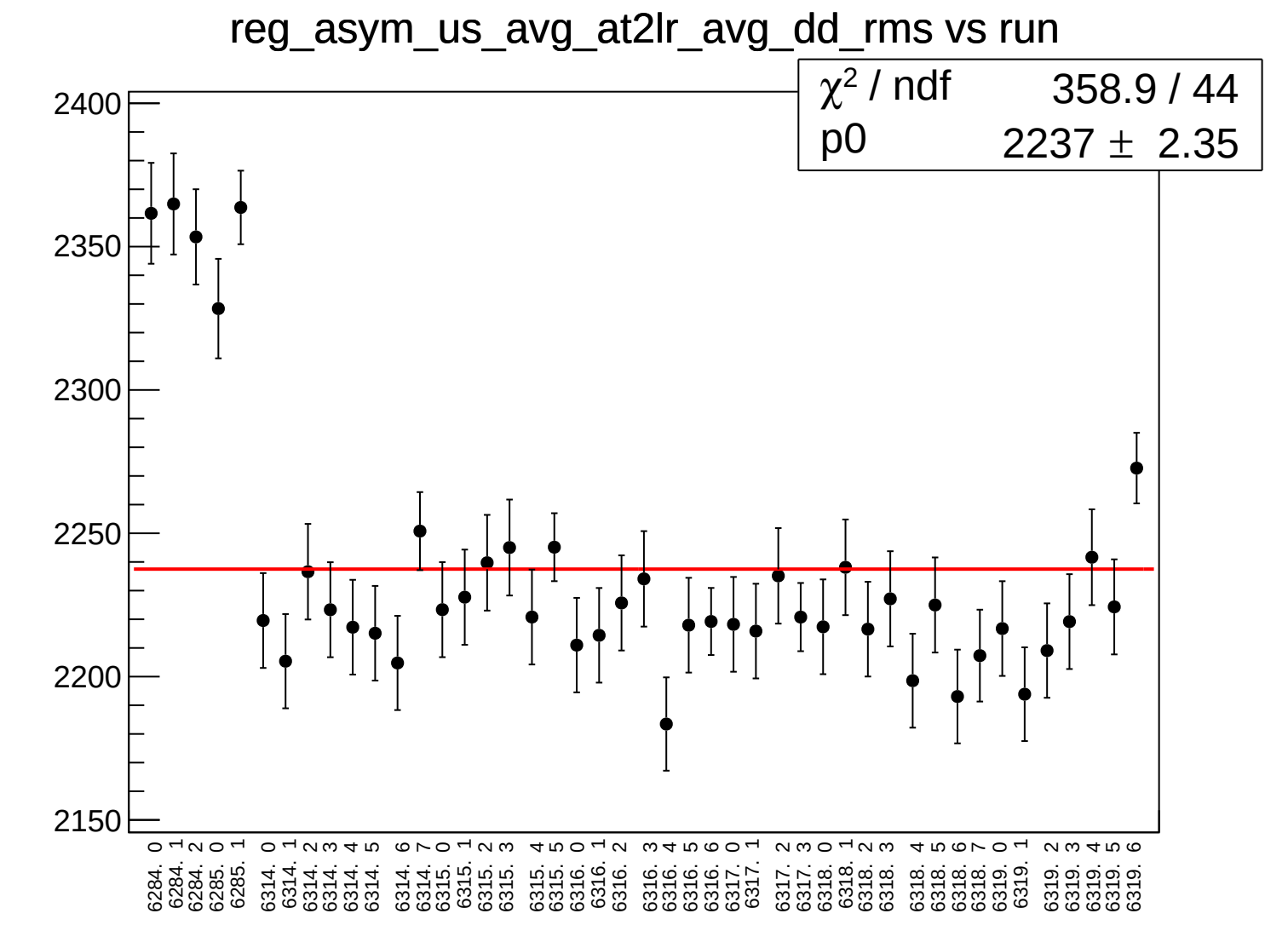
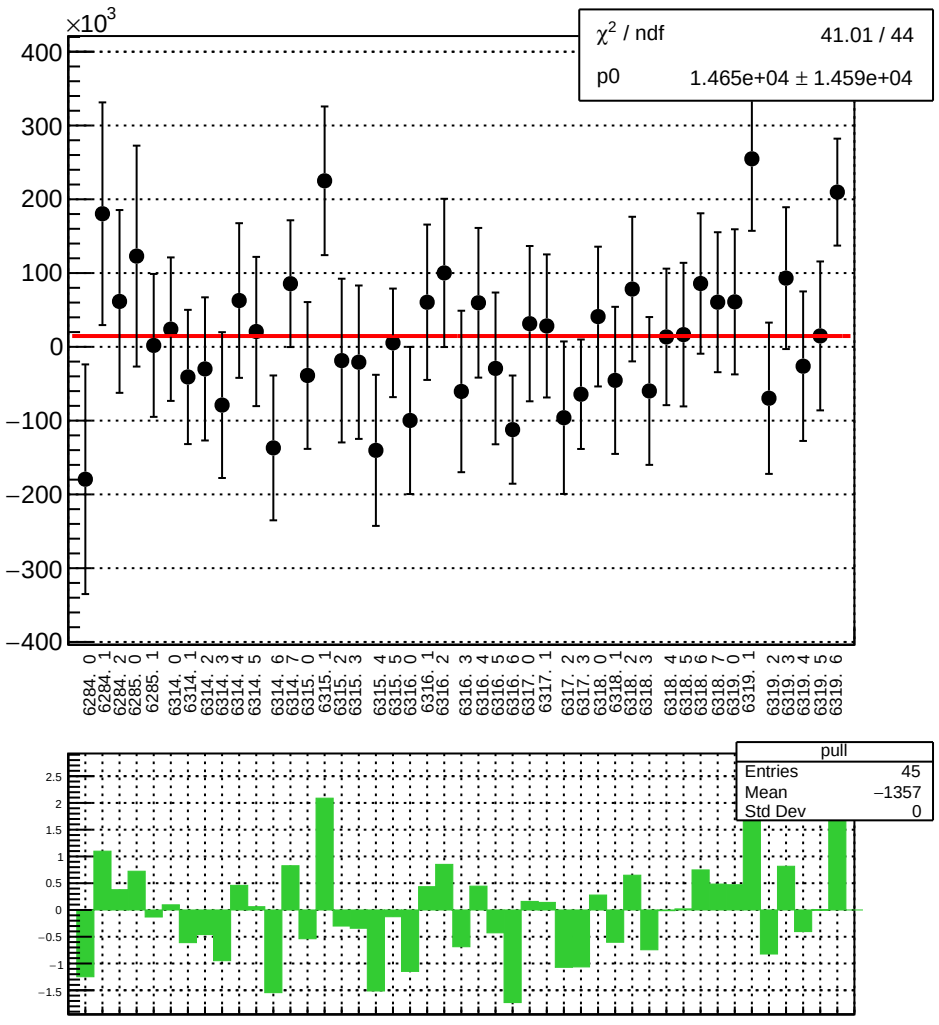
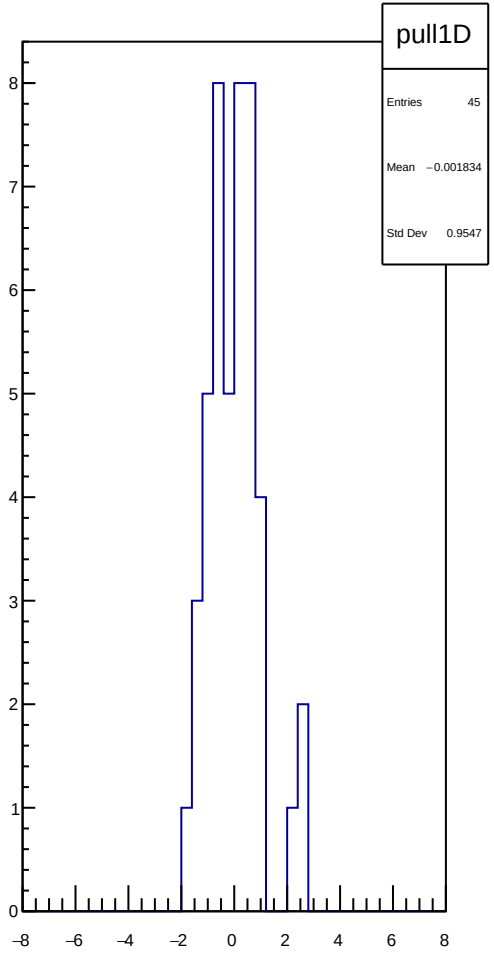
6319. 5
6319. 6

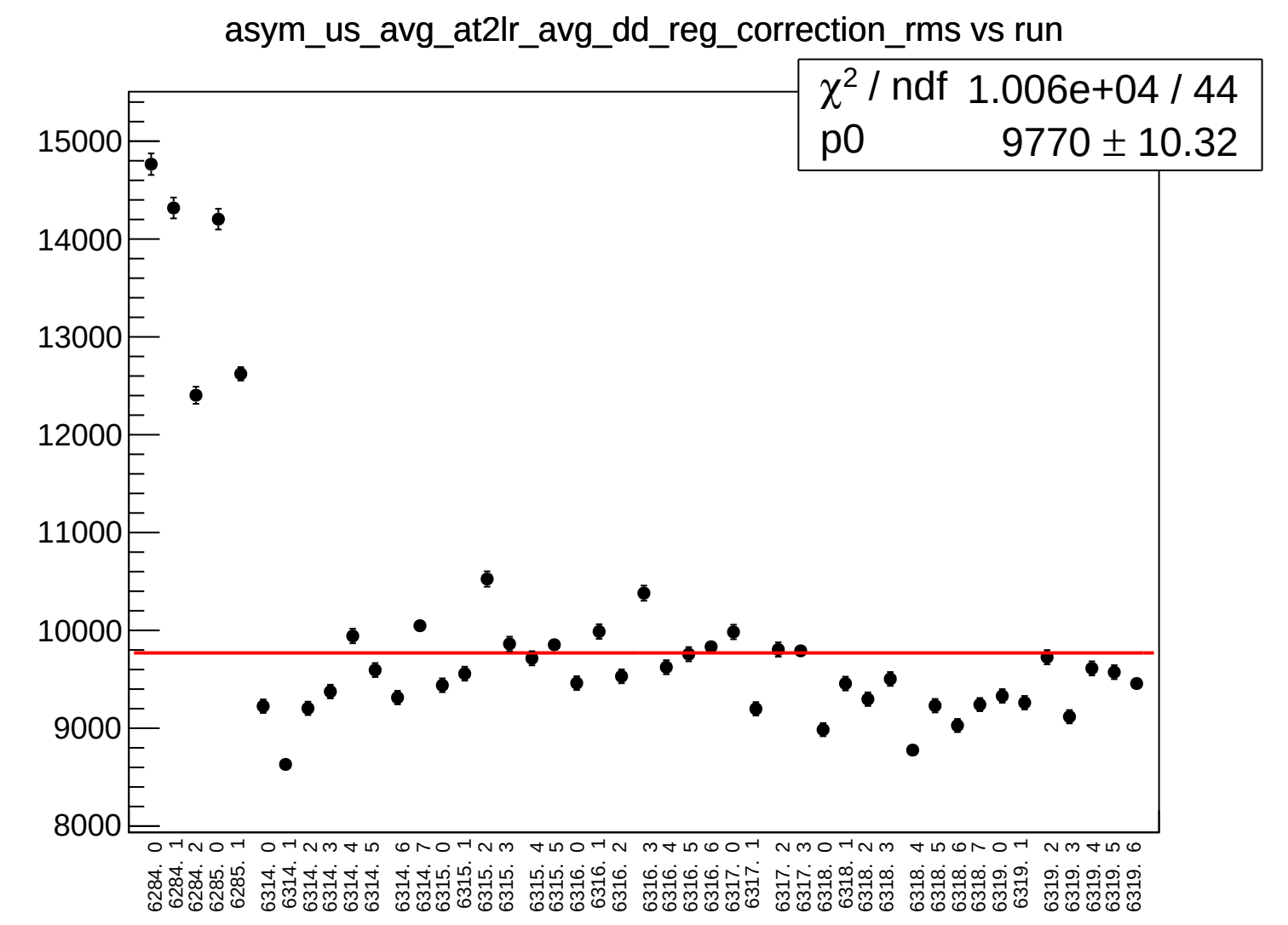

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 47.92 / 44
p0 −2893 ± 3323
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 136.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.008839
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 358.9 / 44
p0 2237 ± 2.35
2400
2350
2300
2250
2200
2150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 1.465e+04 ± 1.459e+04
pull
Entries 45
Mean −1357
Std Dev 0


pull1D
Entries 45
Mean −0.001834
Std Dev 0.9547


asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.006e+04 / 44
p0 9770 ± 10.32
15000
14000
13000
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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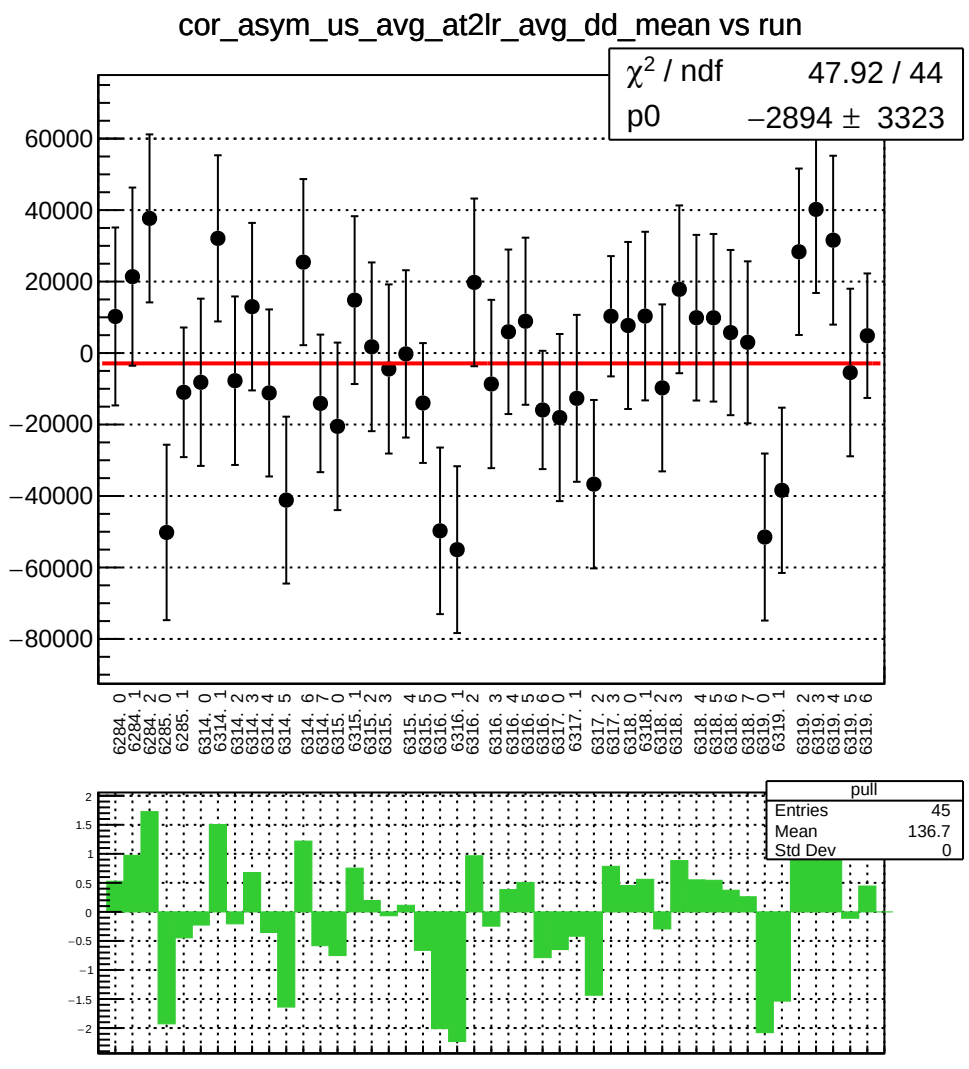
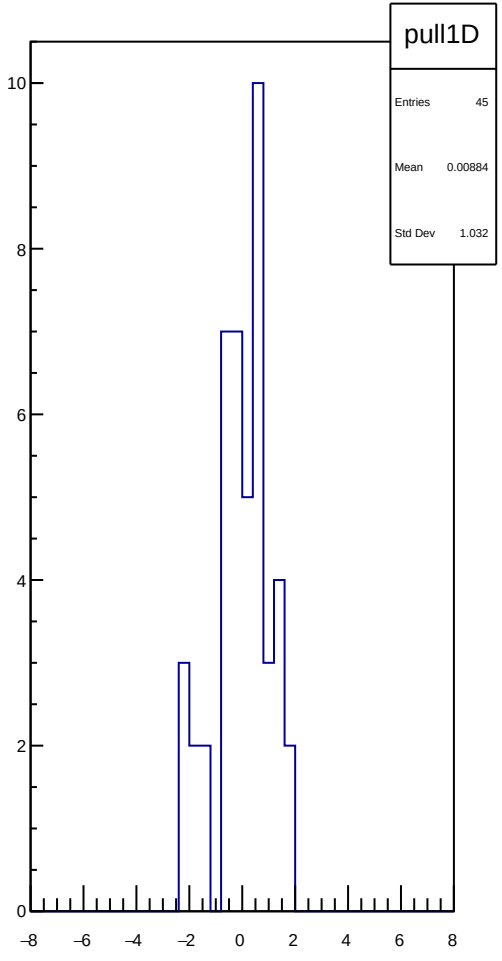
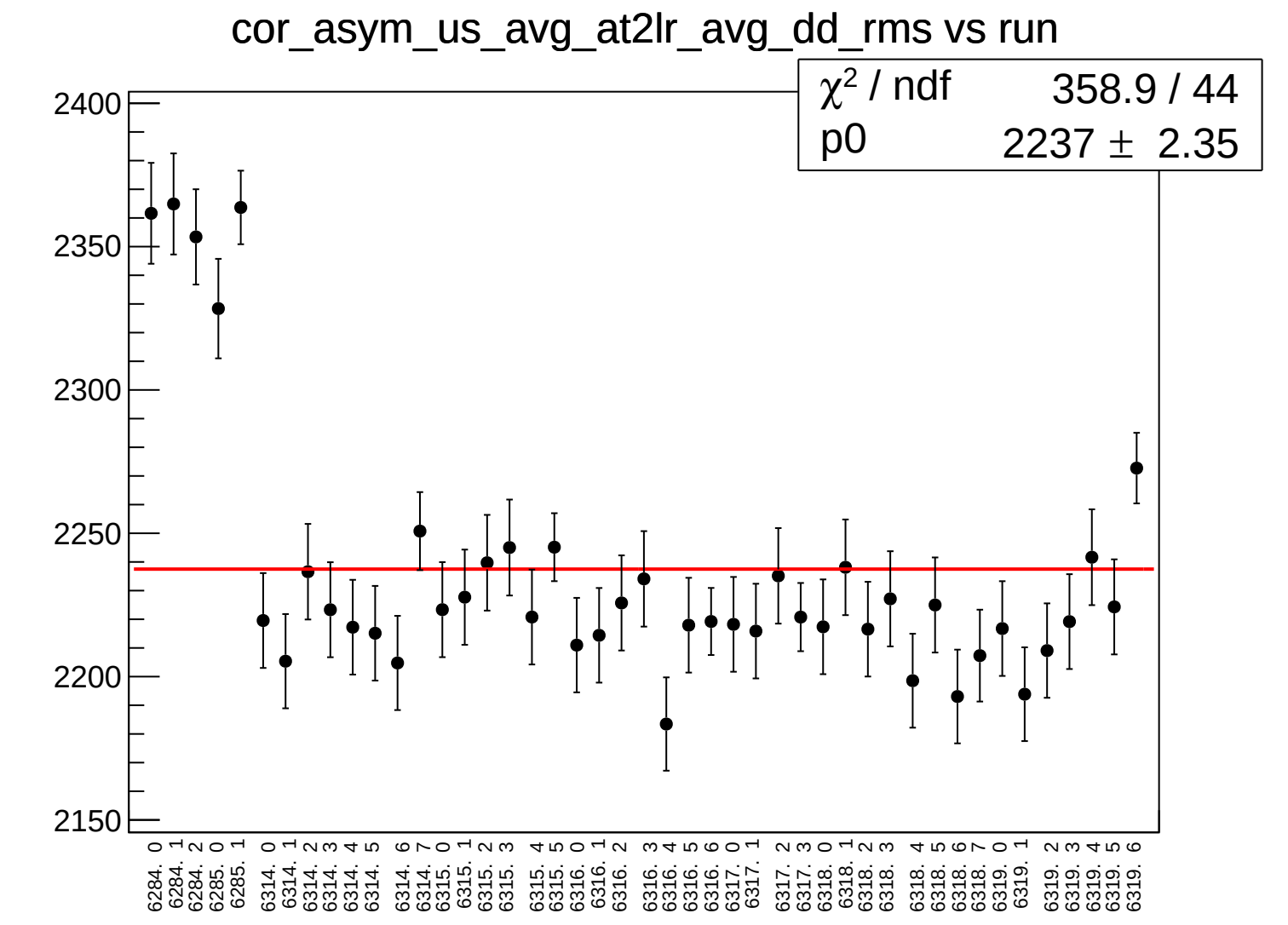
6319. 5
6319. 6


cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 47.92 / 44
p0 −2894 ± 3323
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 136.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00884
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 358.9 / 44
p0 2237 ± 2.35
2400
2350
2300
2250
2200
2150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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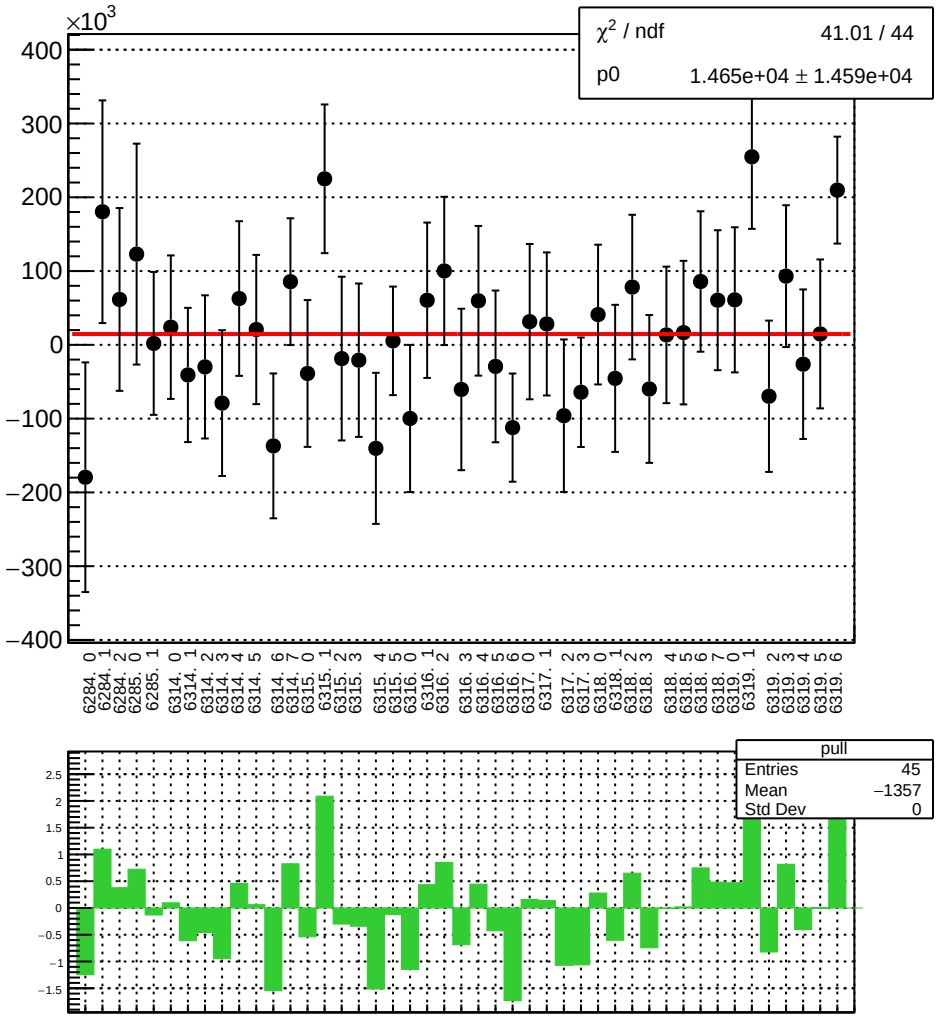
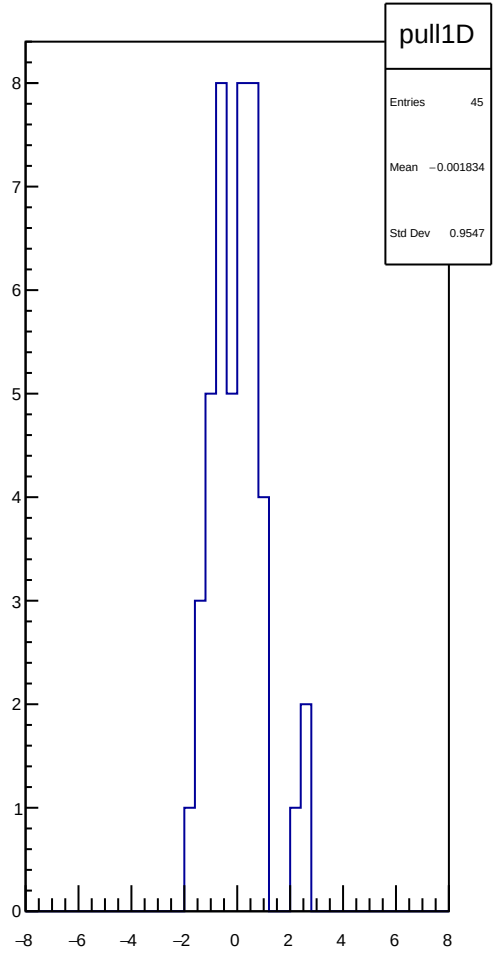
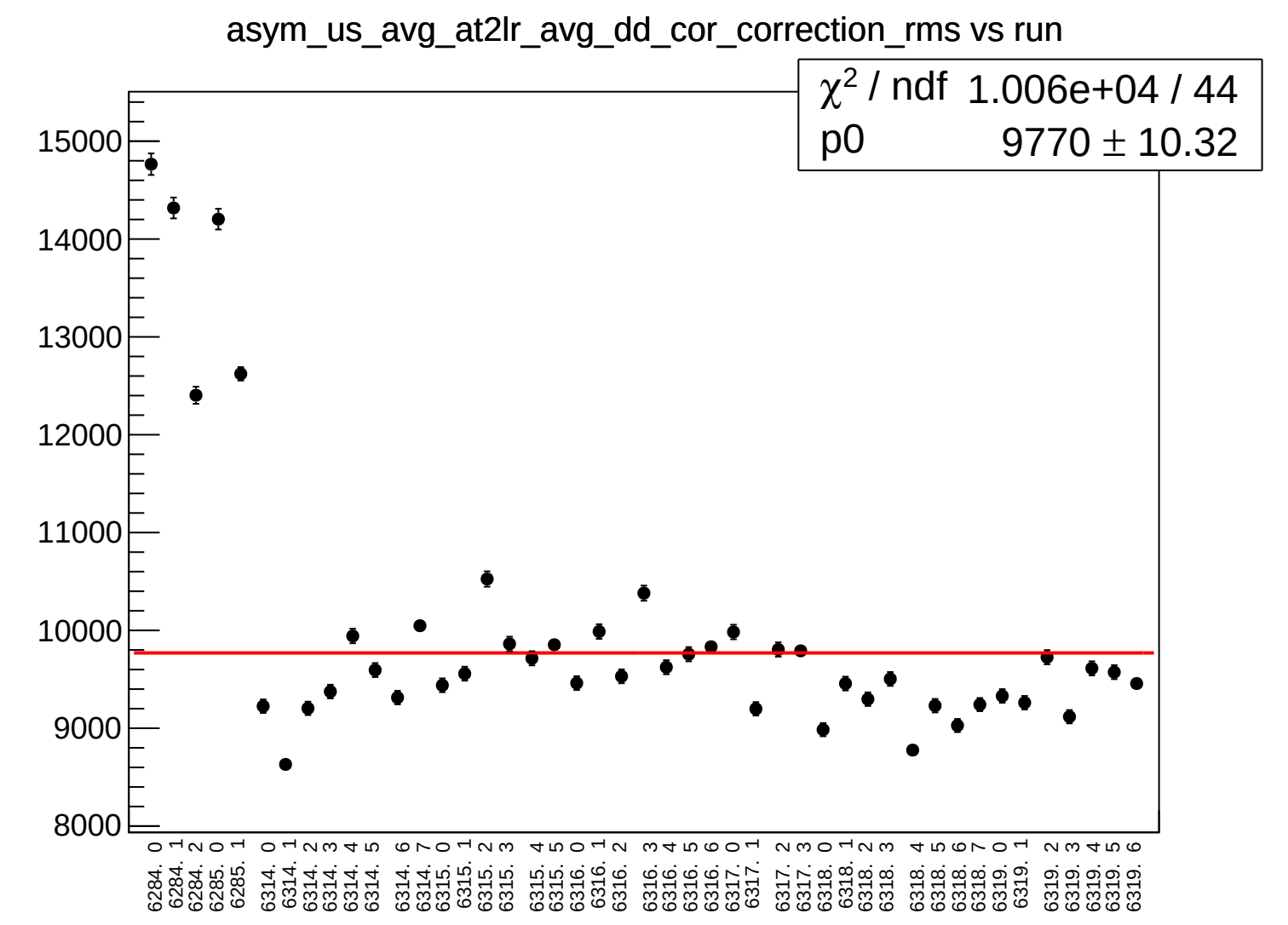
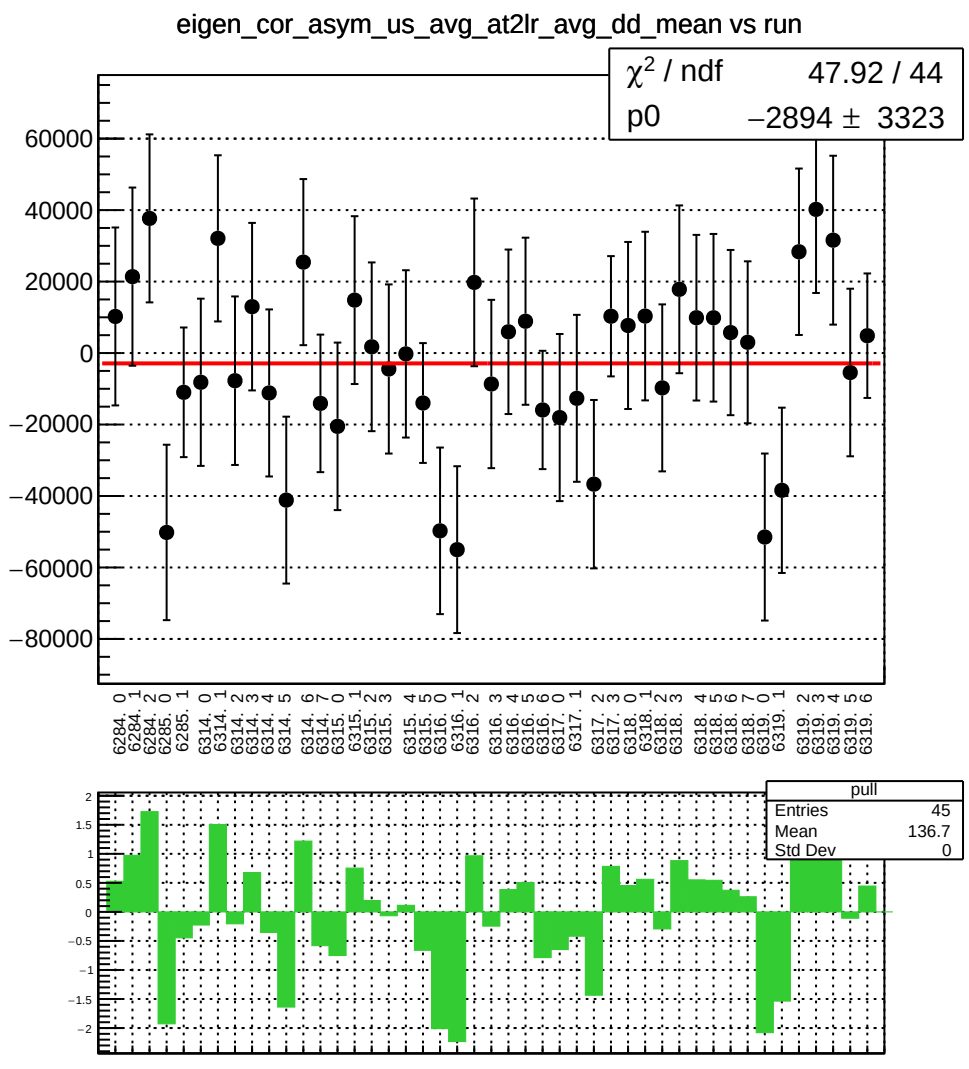
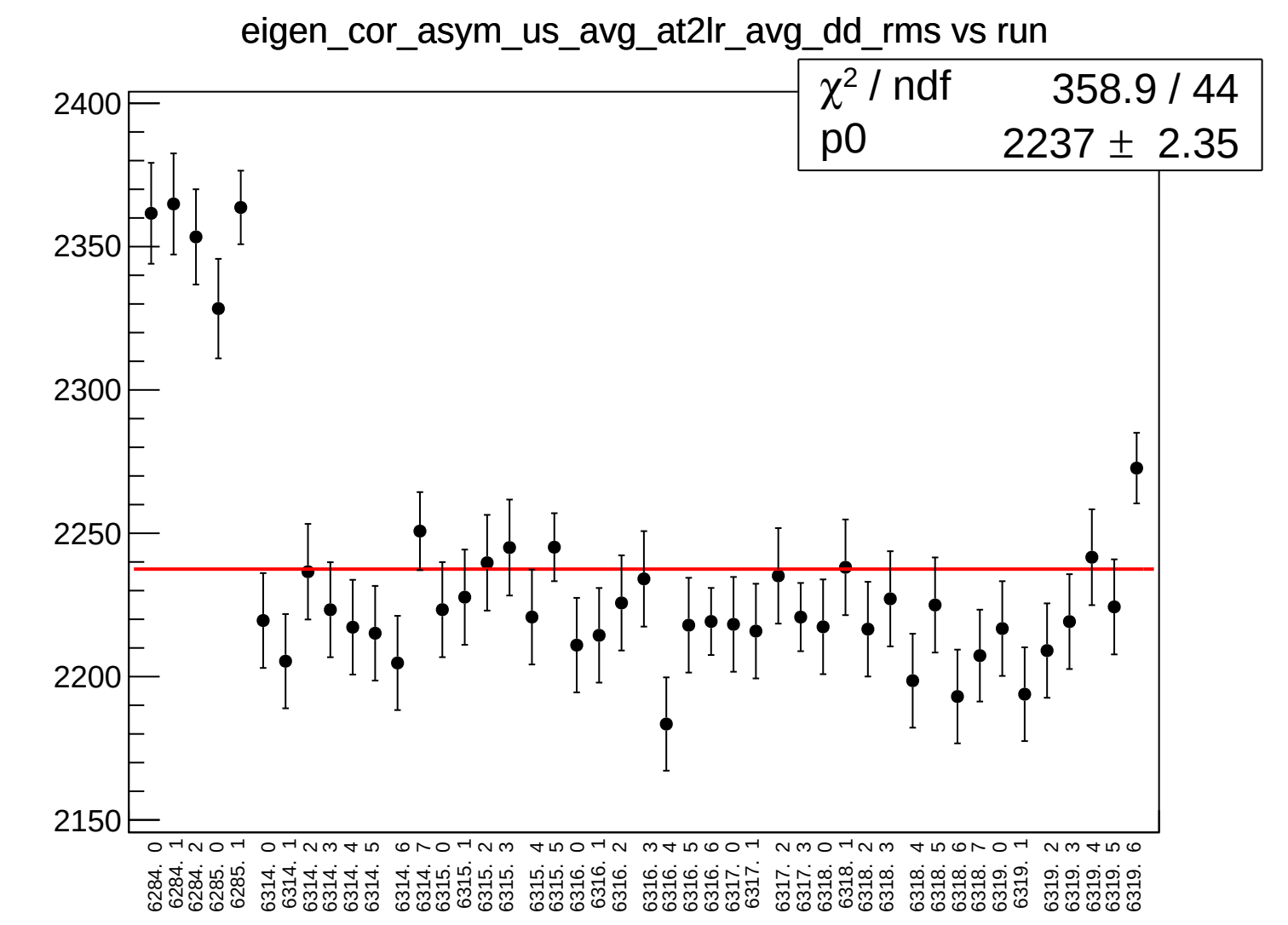
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

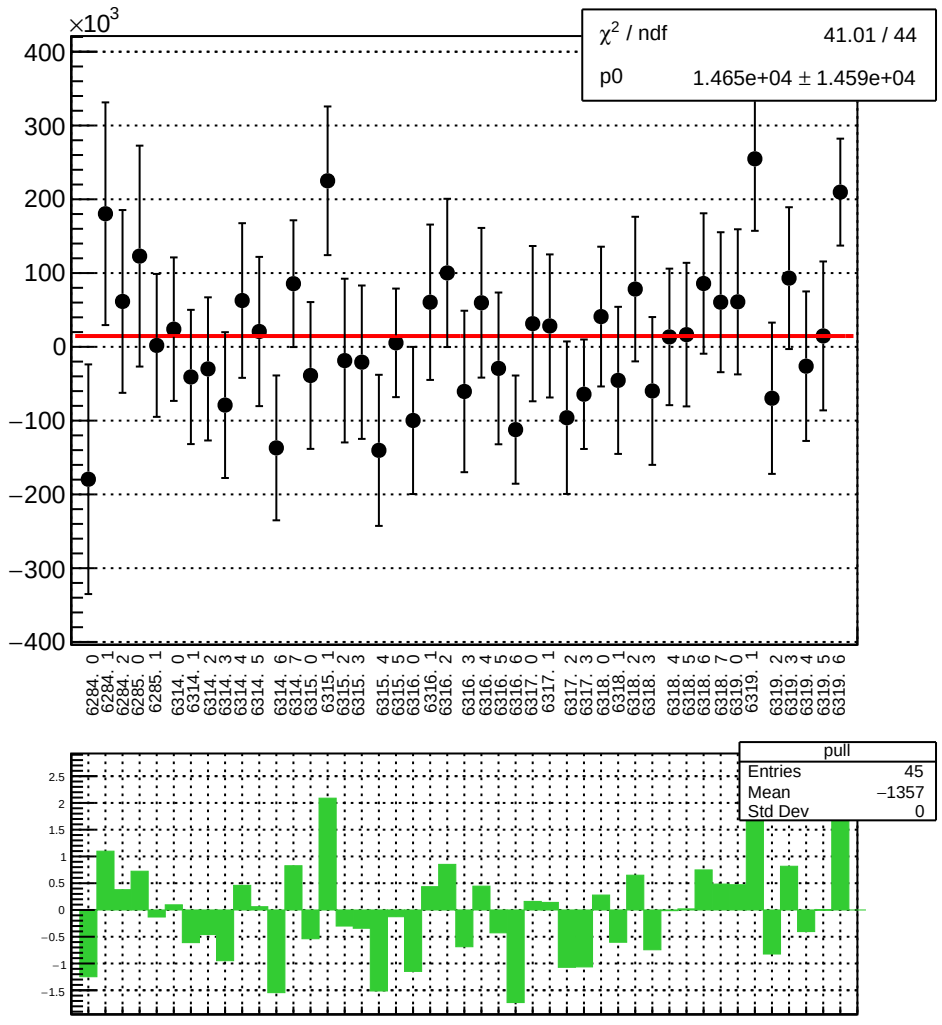

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 1.465e+04 ± 1.459e+04
pull
Entries 45
Mean −1357
Std Dev 0

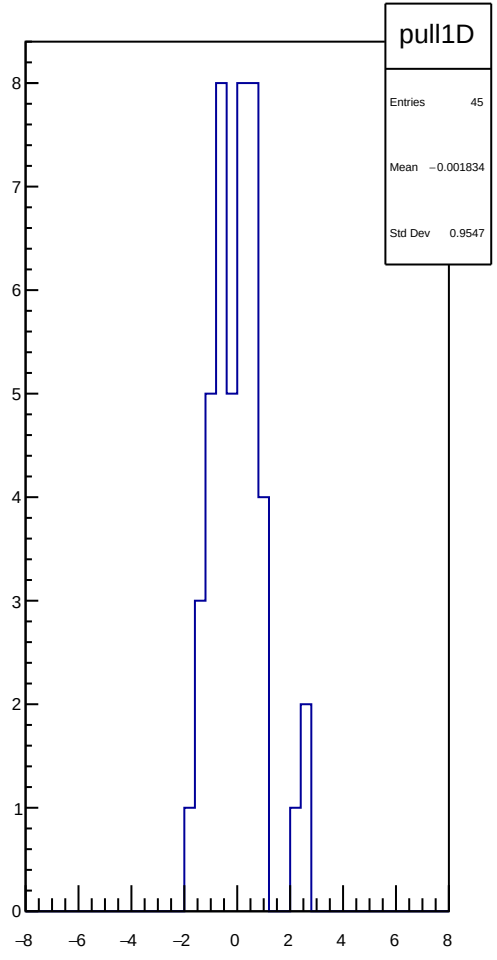

pull1D
Entries 45
Mean −0.001834
Std Dev 0.9547

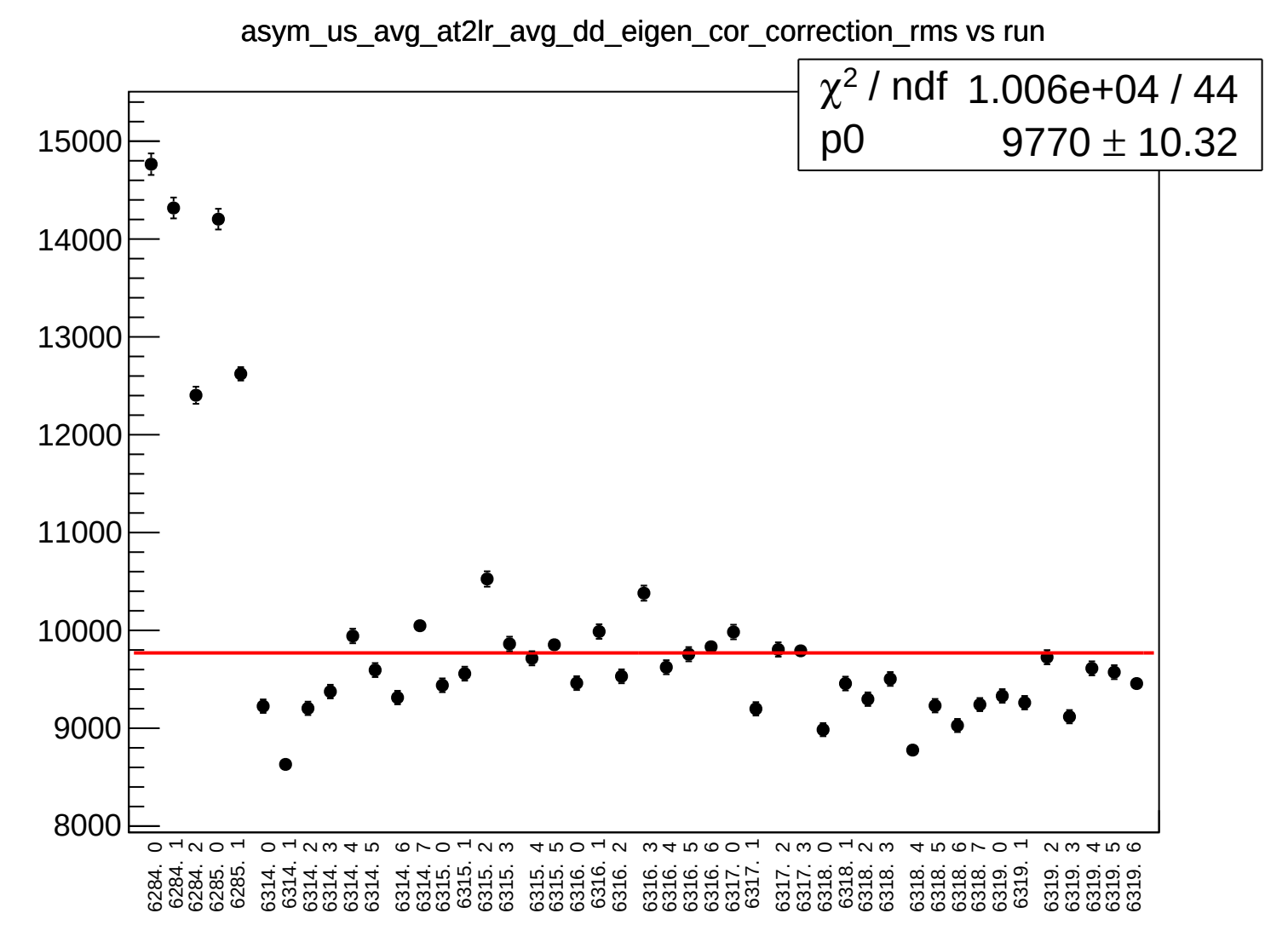

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.006e+04 / 44
p0 9770 ± 10.32
15000
14000
13000
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 47.92 / 44
p0 −2894 ± 3323
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 136.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00884
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 358.9 / 44
p0 2237 ± 2.35
2400
2350
2300
2250
2200
2150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 1.465e+04 ± 1.459e+04
pull
Entries 45
Mean −1357
Std Dev 0


pull1D
Entries 45
Mean −0.001834
Std Dev 0.9547


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.006e+04 / 44
p0 9770 ± 10.32
15000
14000
13000
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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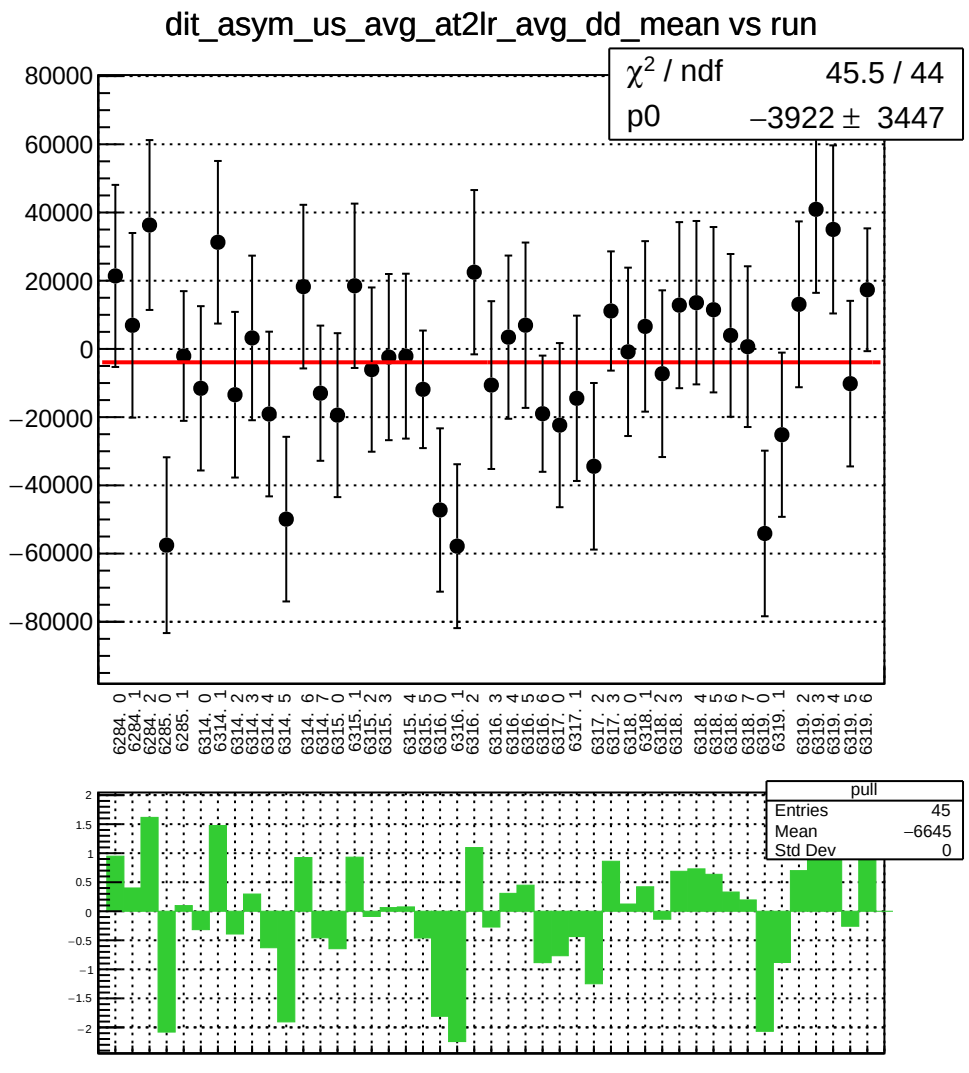
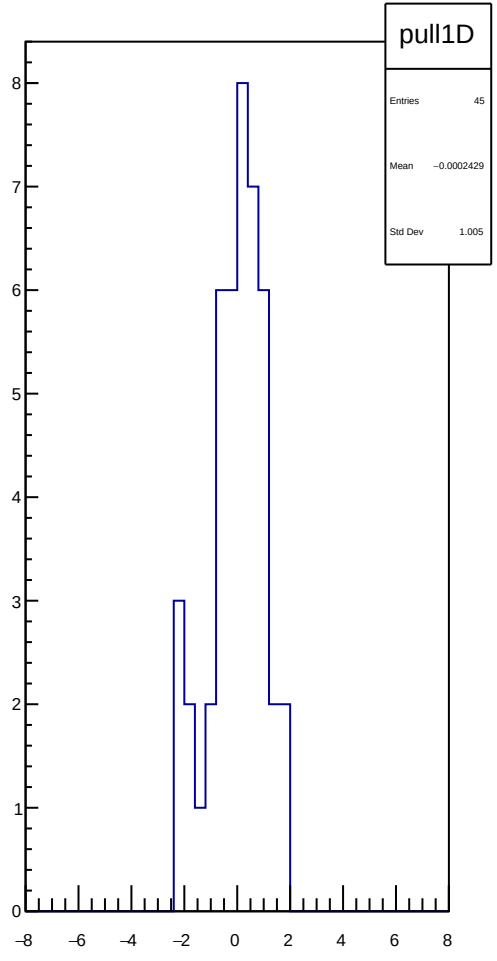
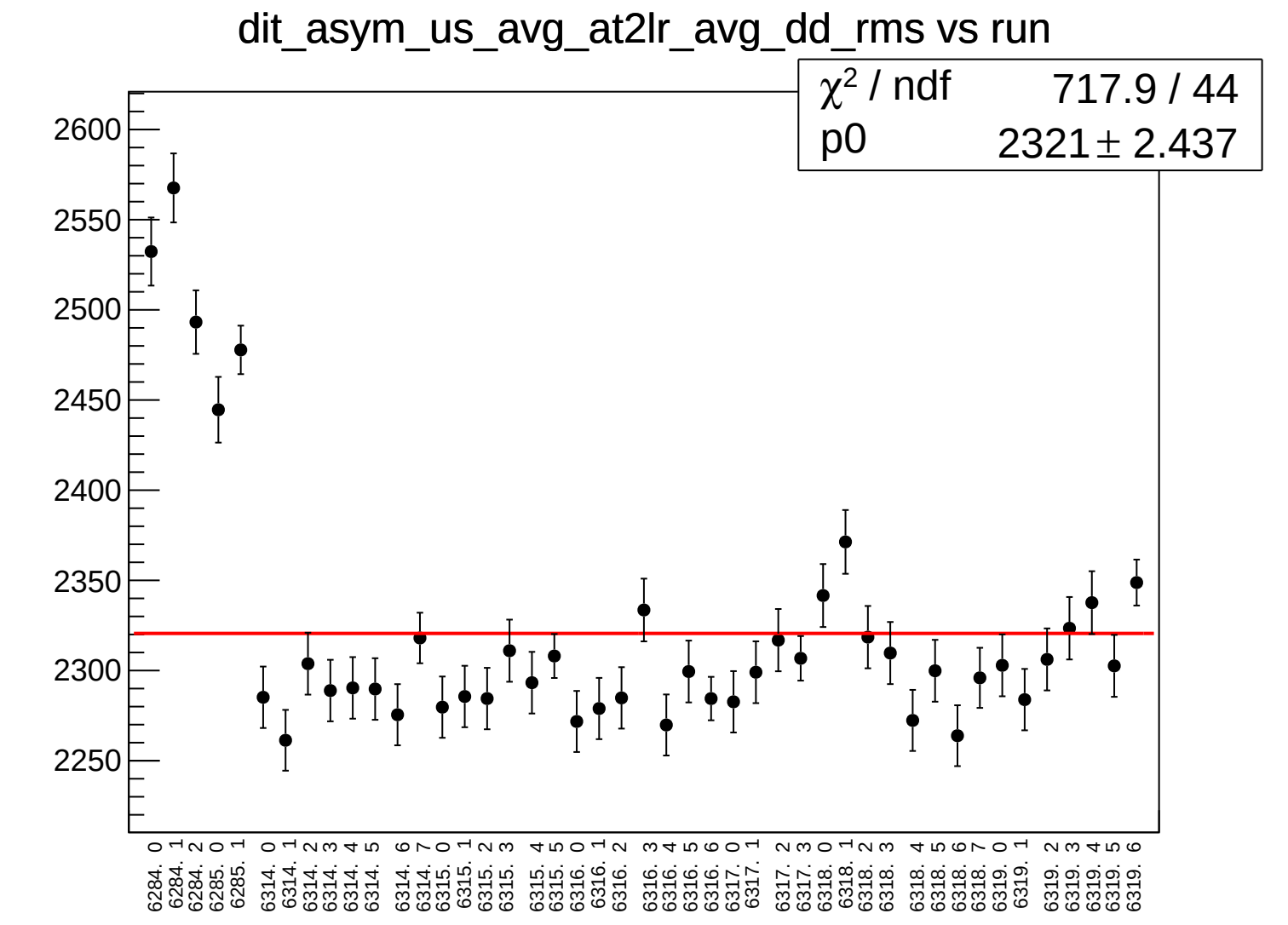
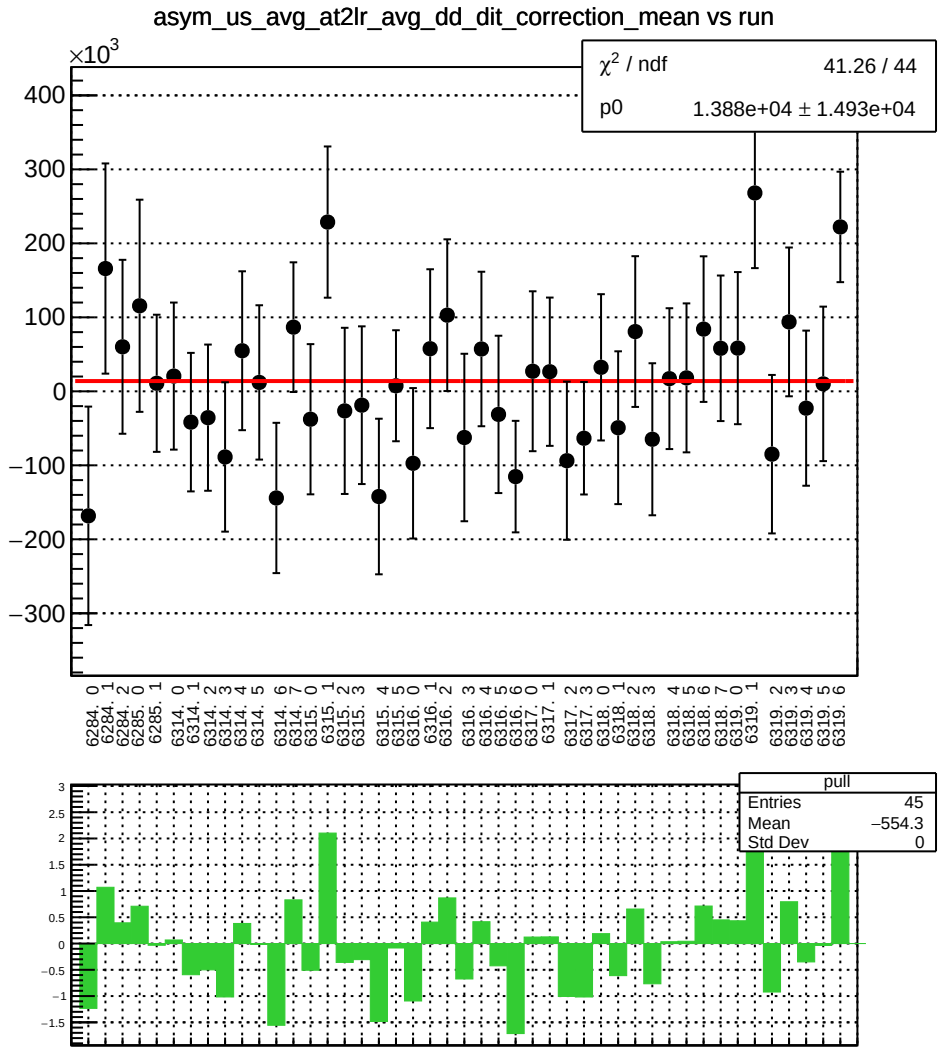
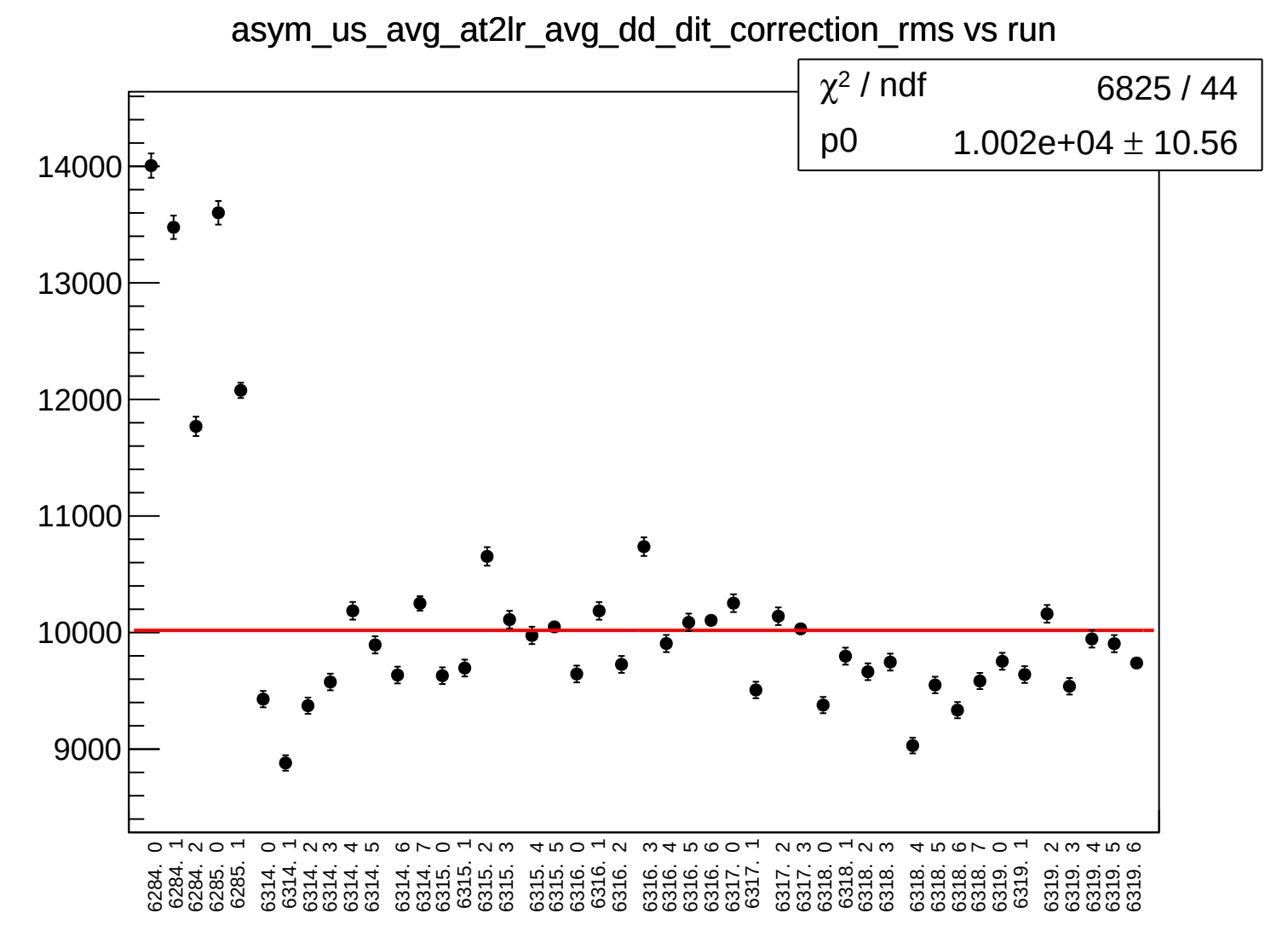
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

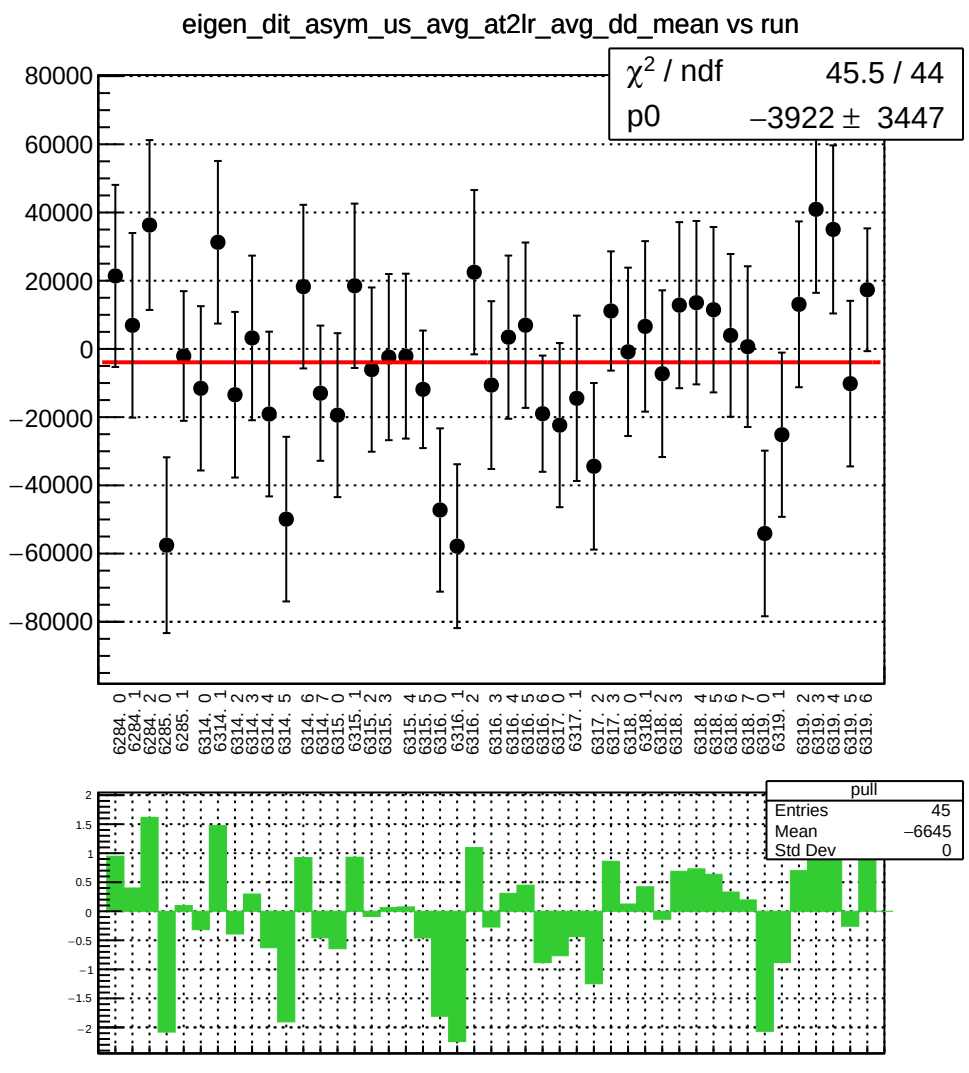

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 45.5 / 44
p0 −3922 ± 3447
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6645
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

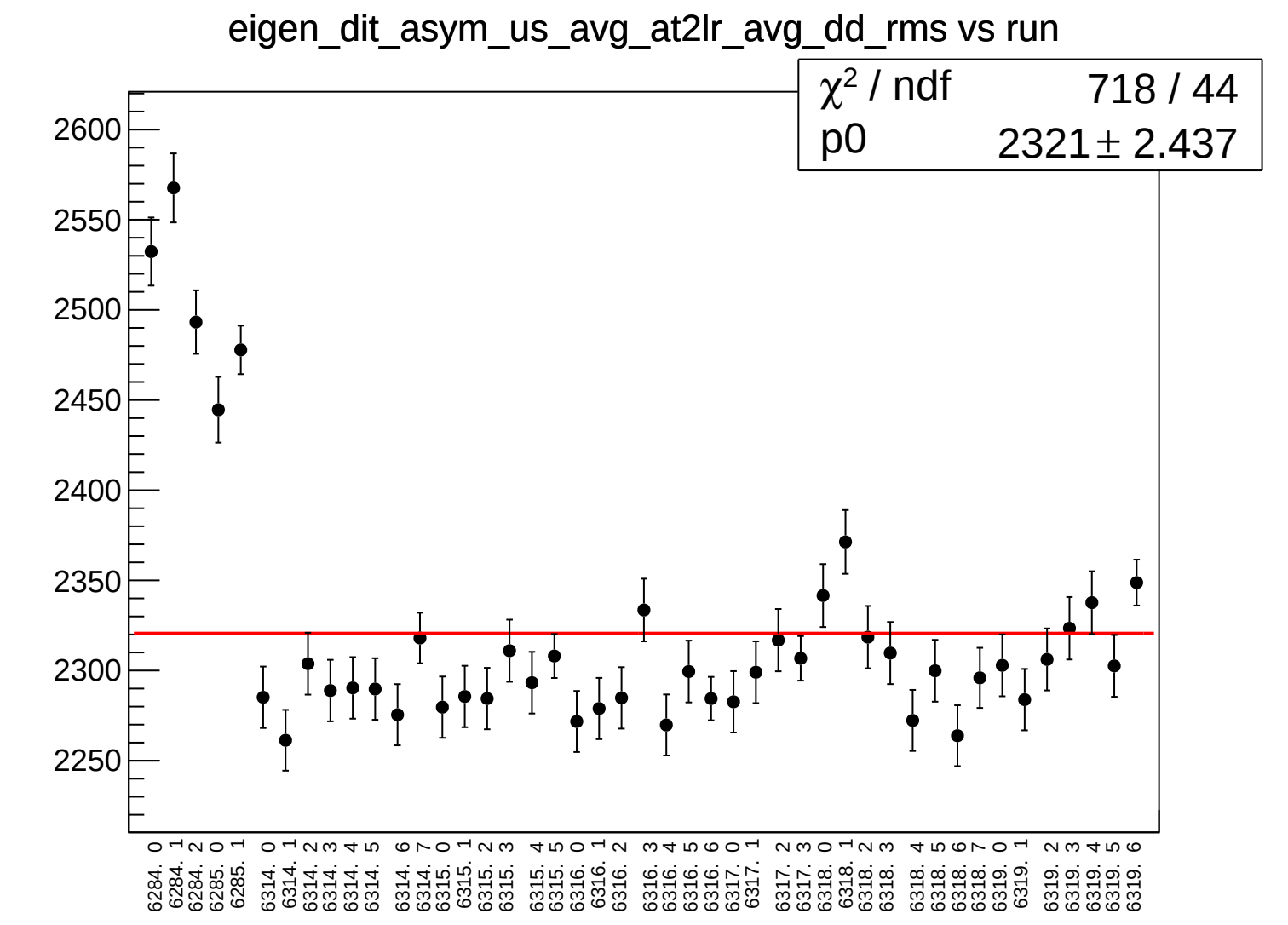

pull1D
Entries 45
Mean −0.0002429
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

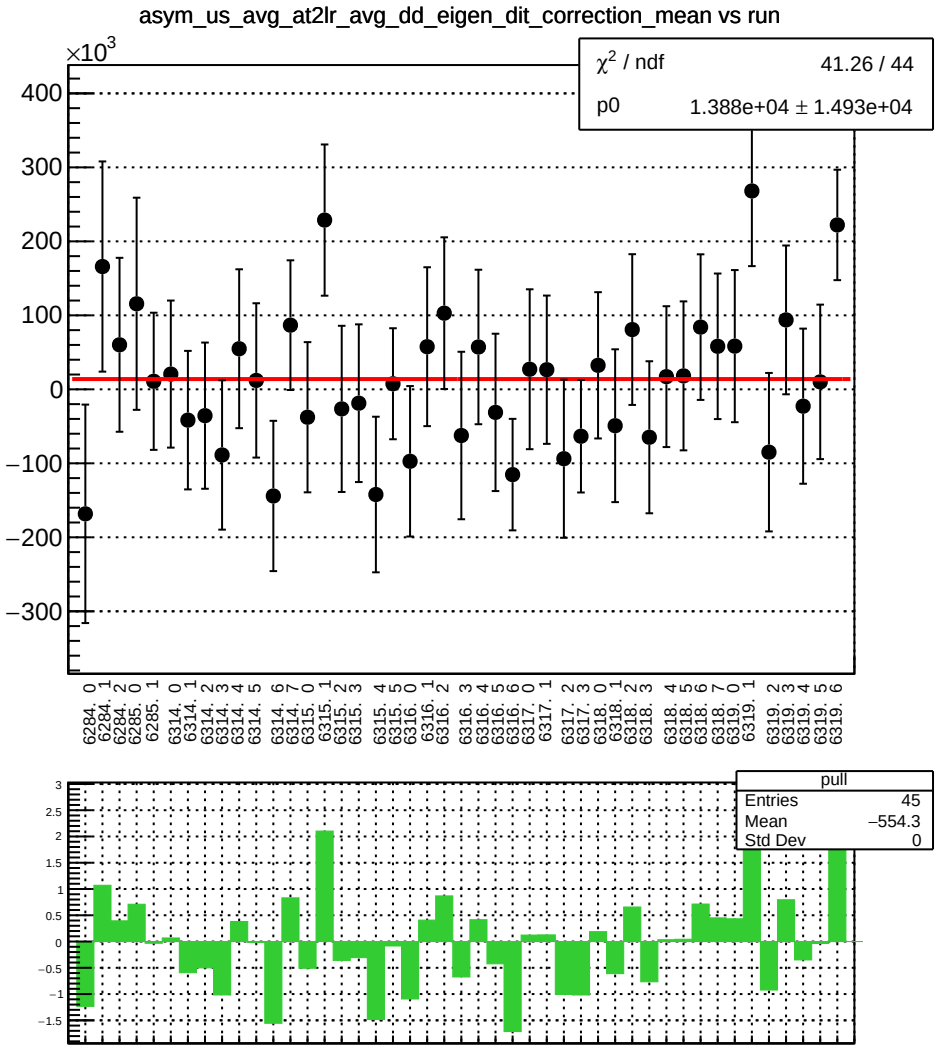

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 717.9 / 44
p0 2321 ± 2.437
2600
2550
2500
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

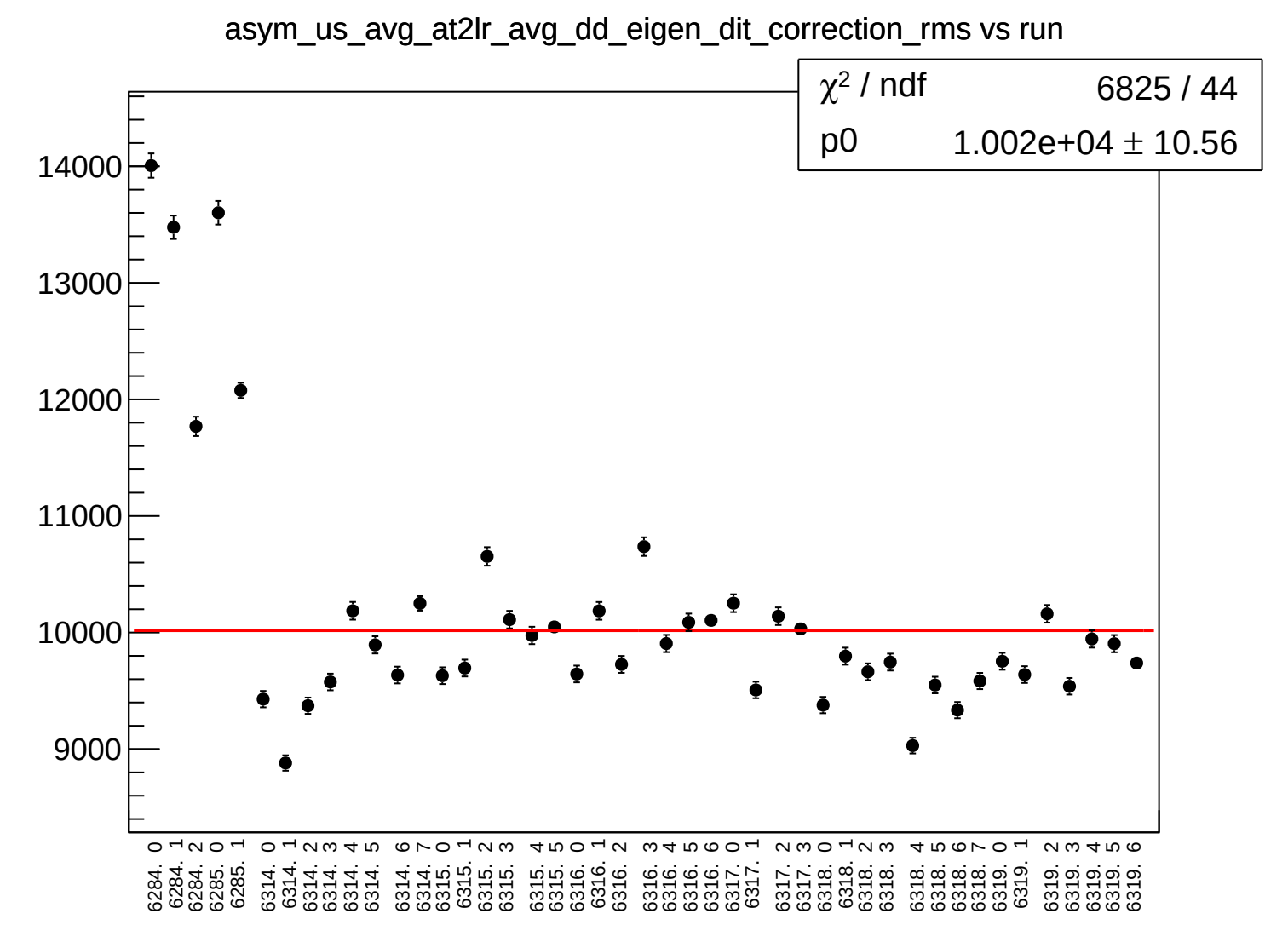

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 1.388e+04 ± 1.493e+04
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −554.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004443
Std Dev 0.9576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

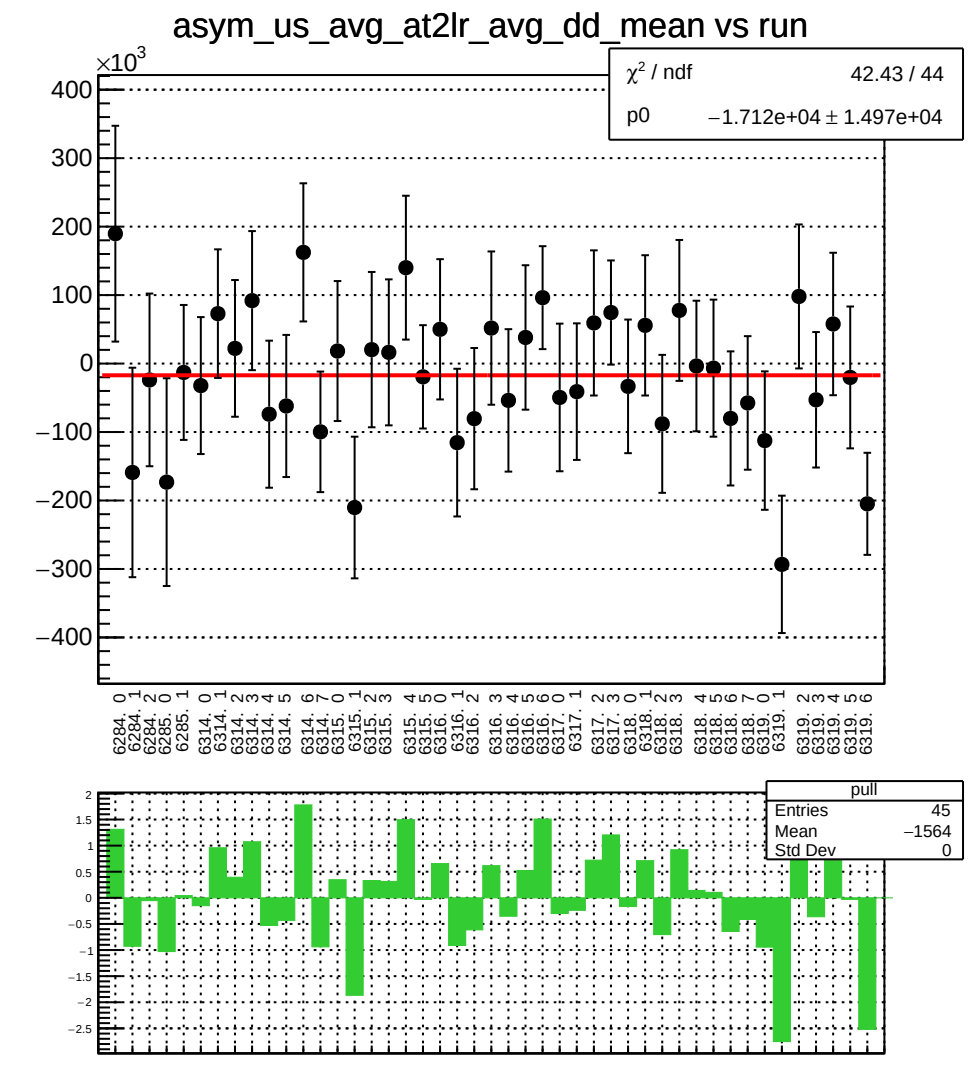

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6825 / 44
p0 1.002e+04 ± 10.56
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

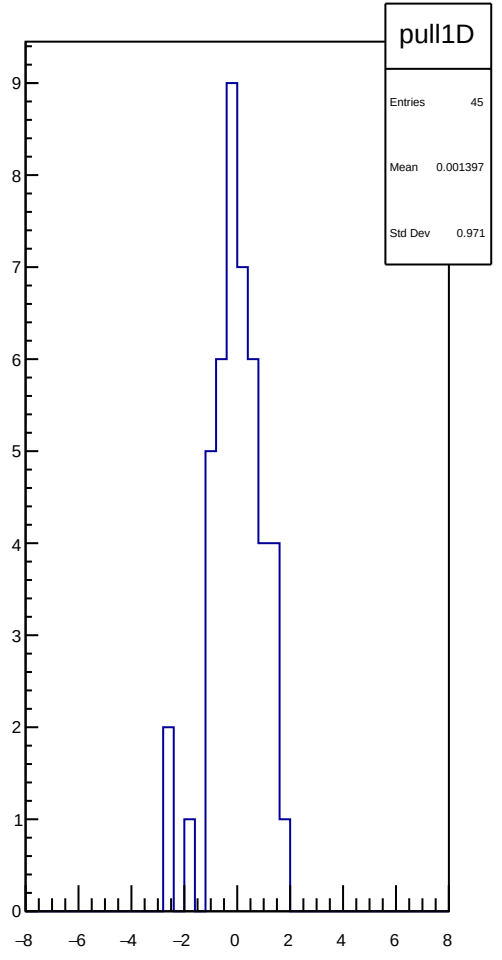

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 45.5 / 44
p0 −3922 ± 3447
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6645
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0002429
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

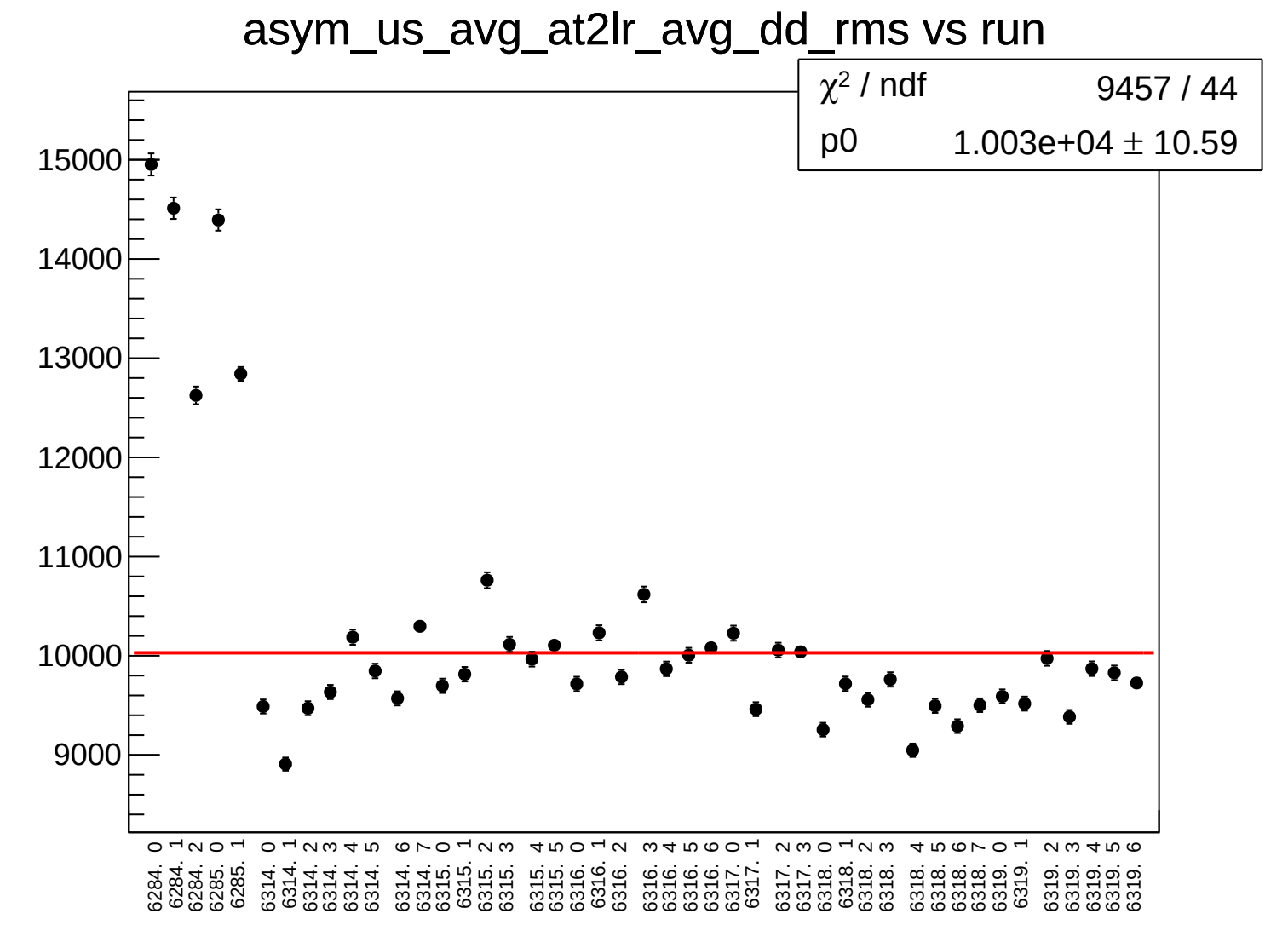

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 718 / 44
p0 2321 ± 2.437
2600
2550
2500
2450
2400
2350
2300
2250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.26 / 44
p0 1.388e+04 ± 1.493e+04
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −554.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004443
Std Dev 0.9576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6825 / 44
p0 1.002e+04 ± 10.56
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 42.43 / 44
p0 −1.712e+04 ± 1.497e+04
pull
Entries 45
Mean −1564
Std Dev 0


pull1D
Entries 45
Mean 0.001397
Std Dev 0.971


asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9457 / 44
p0 1.003e+04 ± 10.59
15000
14000
13000
12000
11000
10000
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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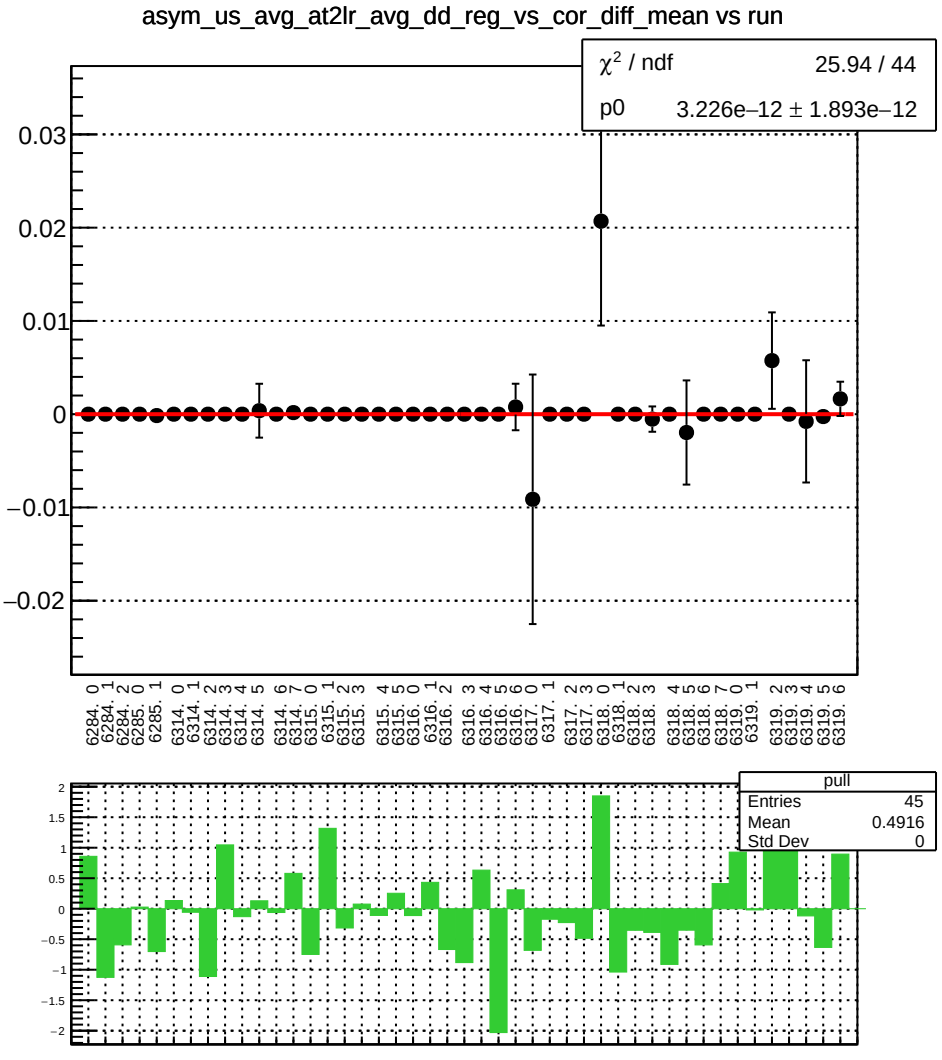
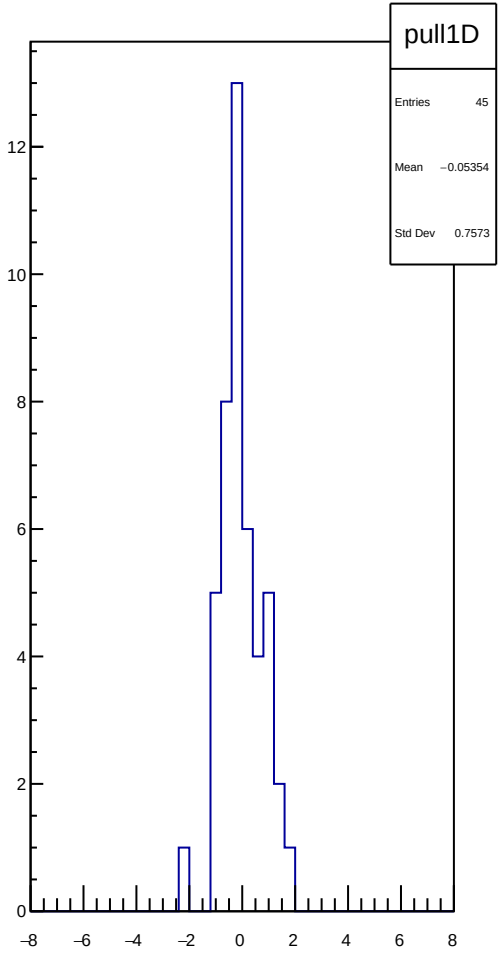
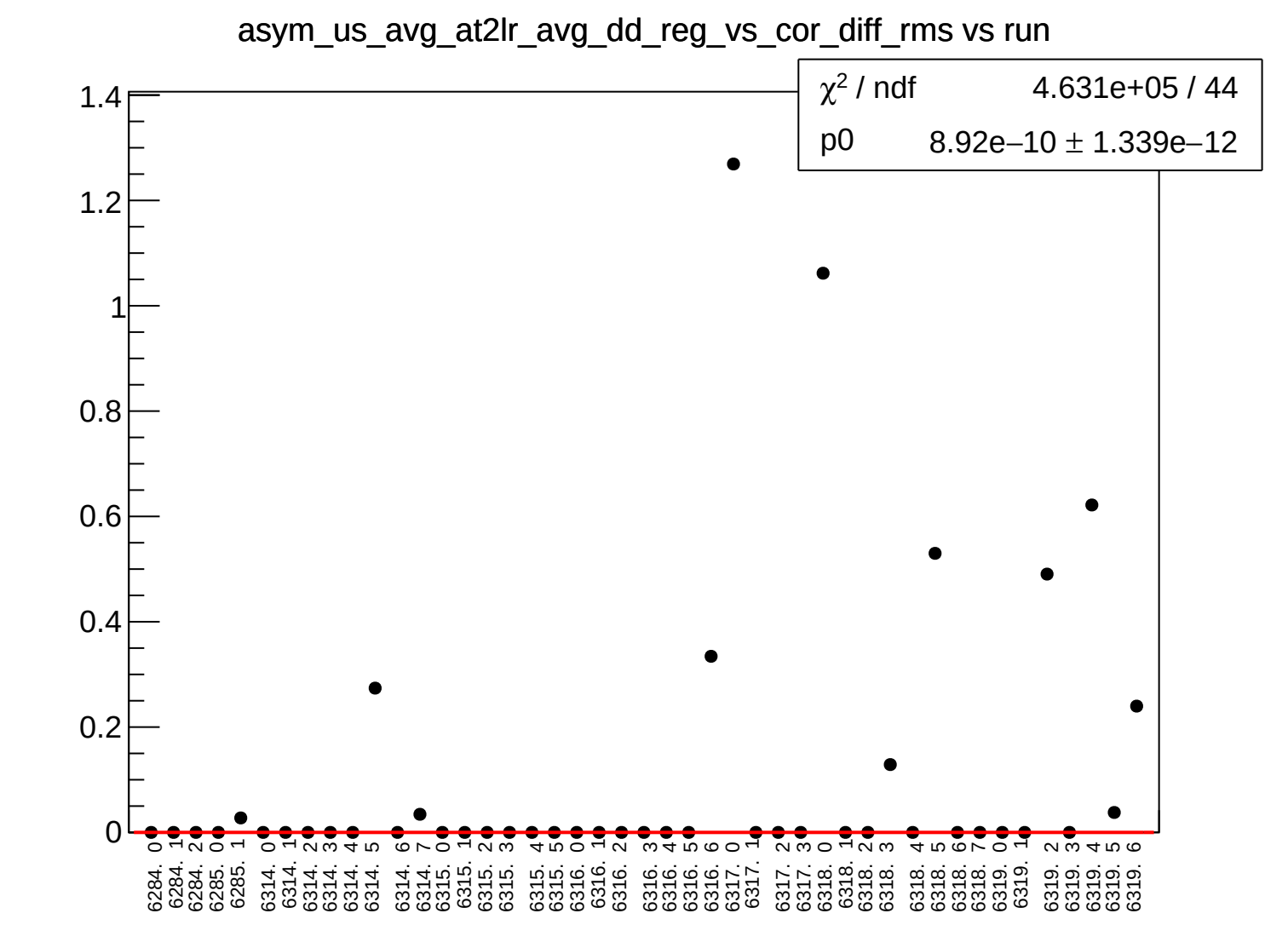
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.94 / 44
p0 3.226e−12 ± 1.893e−12
0.03
0.02
0.01
0
−0.01
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 0.4916
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.05354
Std Dev 0.7573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.631e+05 / 44
p0 8.92e−10 ± 1.339e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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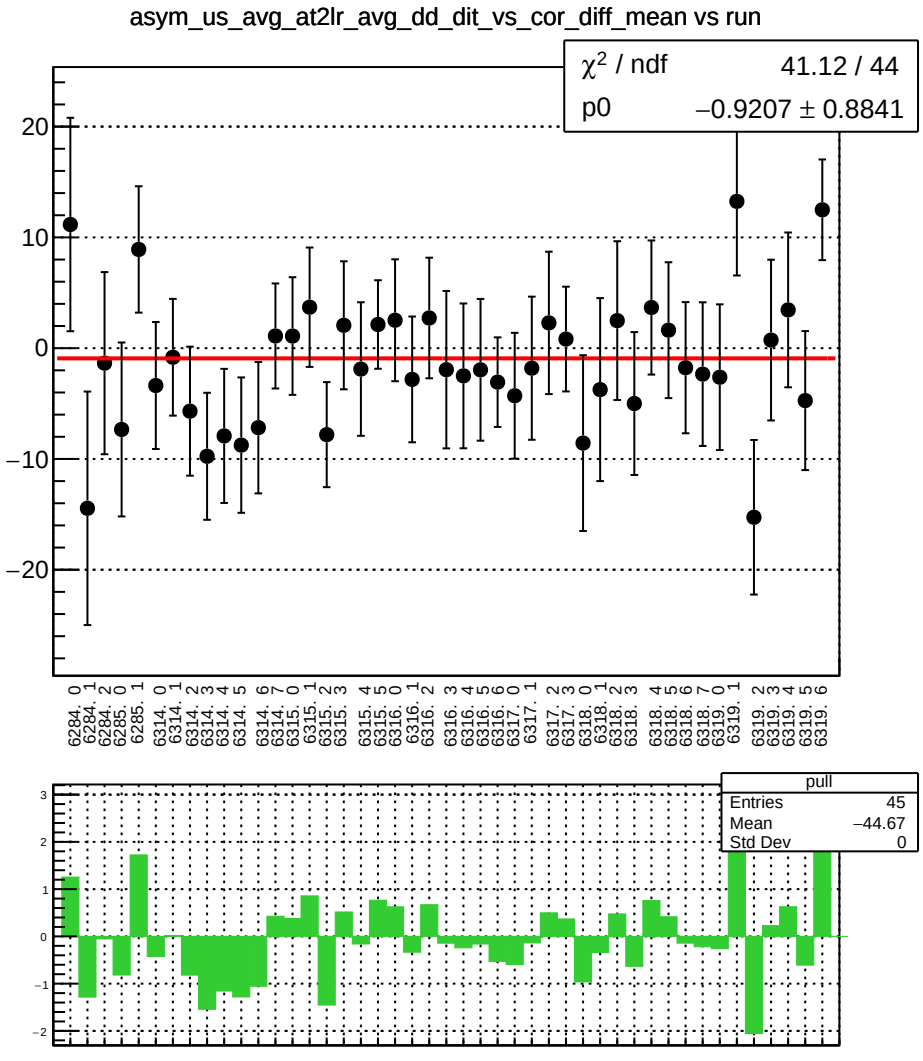
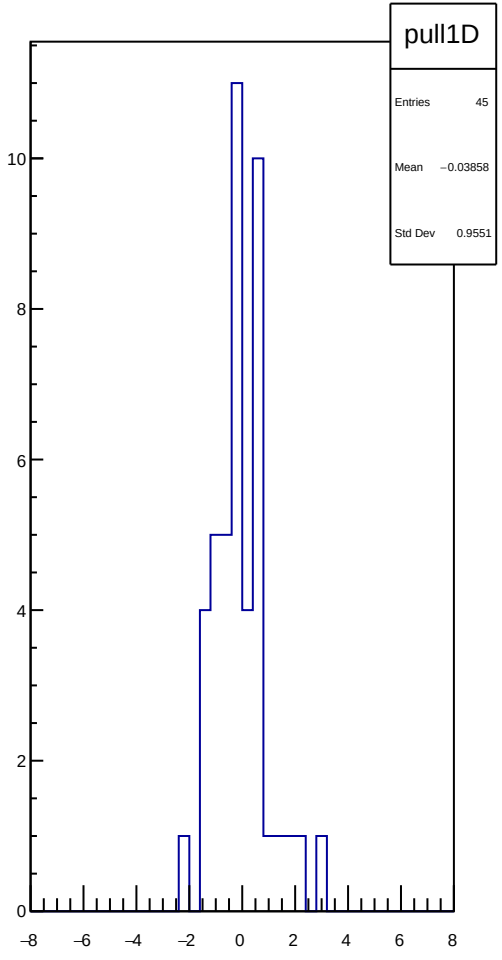
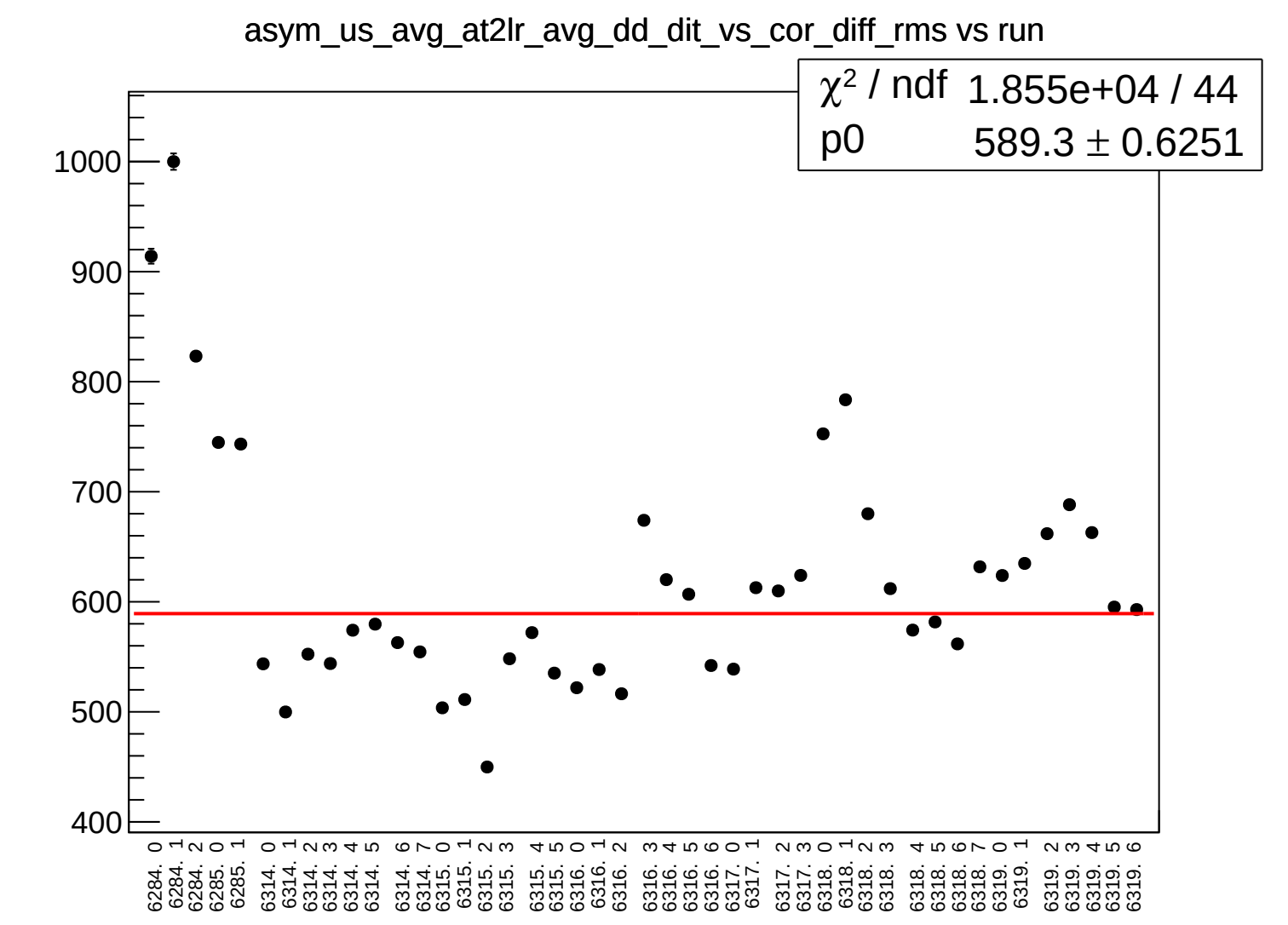
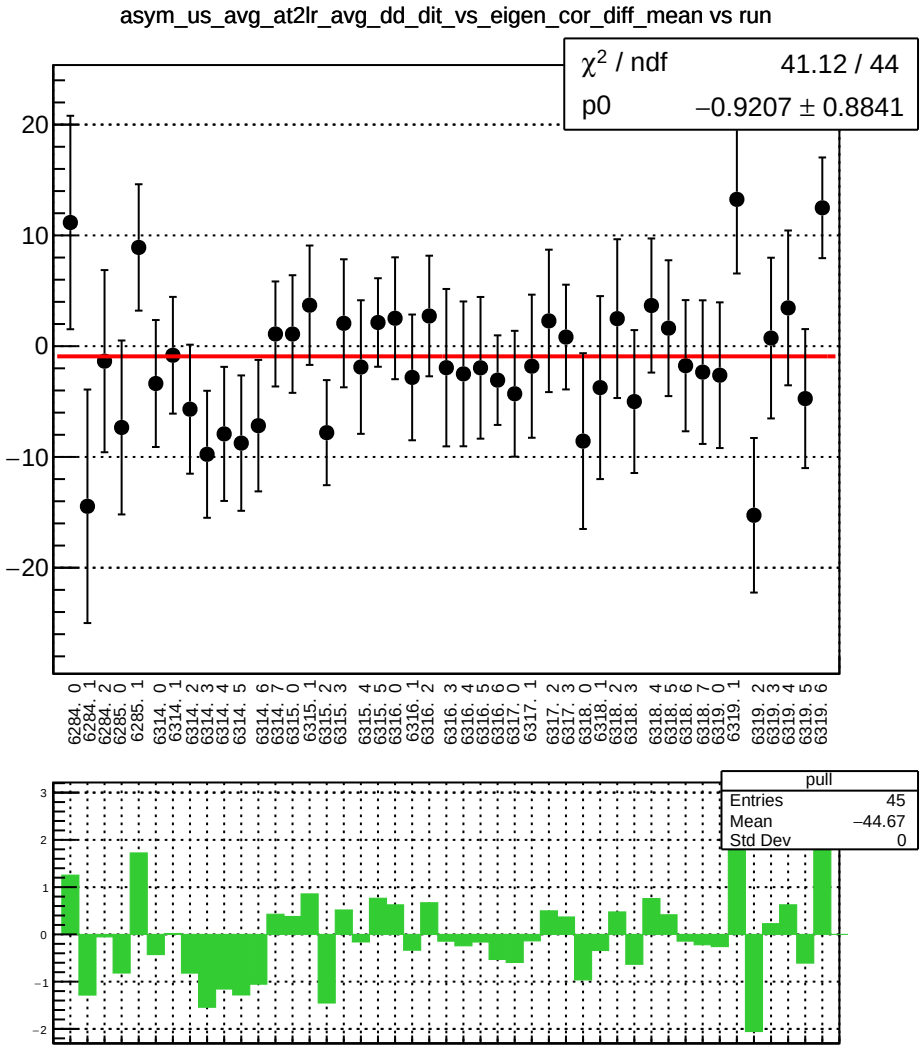
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.12 / 44
p0 −0.9207 ± 0.8841
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −44.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03858
Std Dev 0.9551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+04 / 44
p0 589.3 ± 0.6251
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.12 / 44
p0 −0.9207 ± 0.8841
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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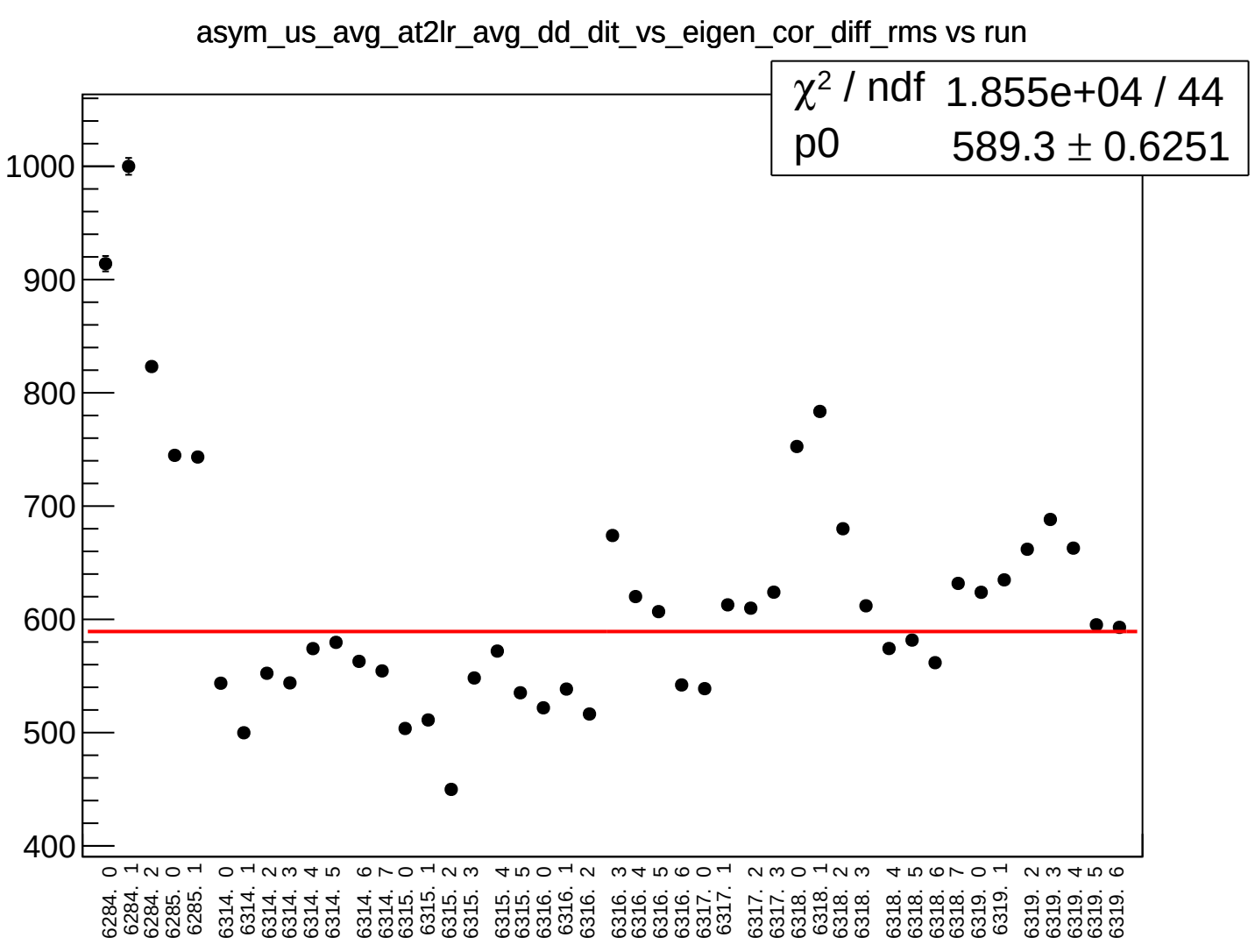
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −44.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03858
Std Dev 0.9551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+04 / 44
p0 589.3 ± 0.6251
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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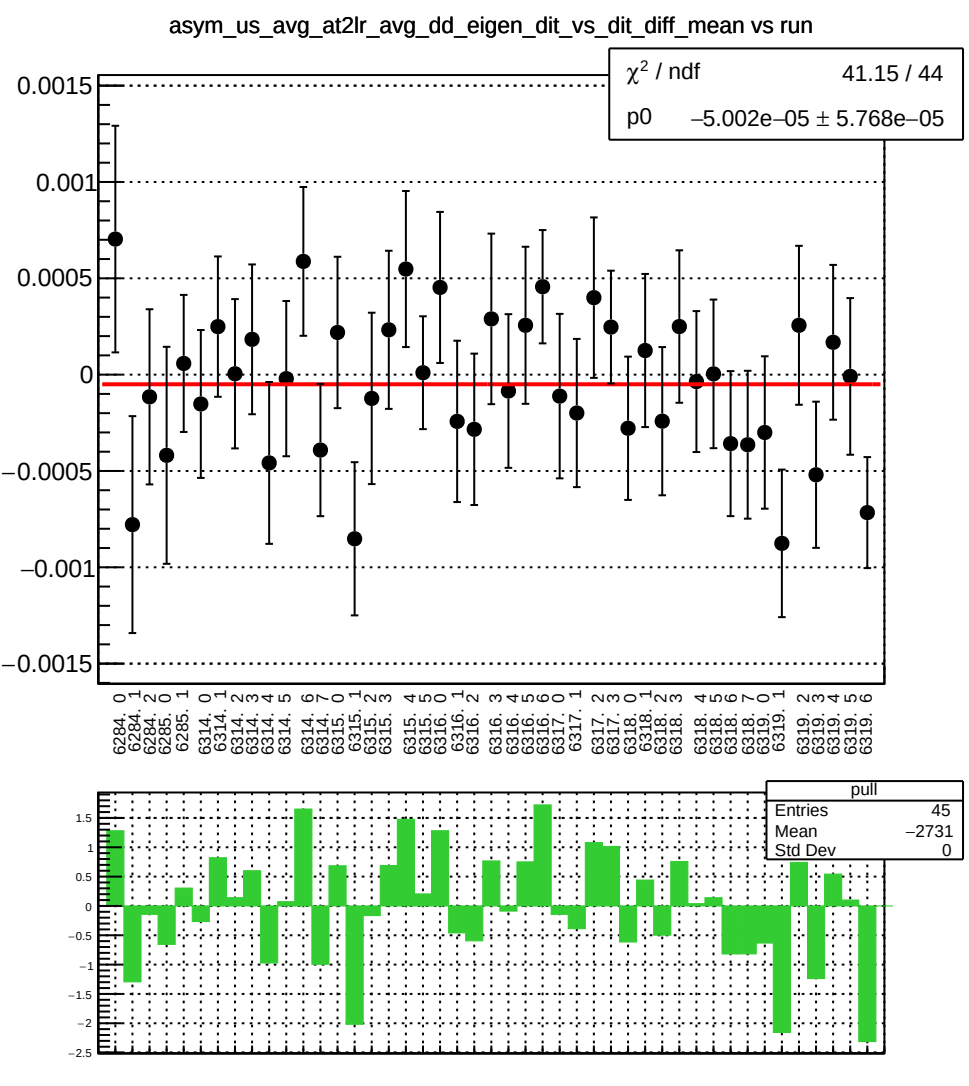
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.15 / 44
p0 −5.002e−05 ± 5.768e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
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6317. 1
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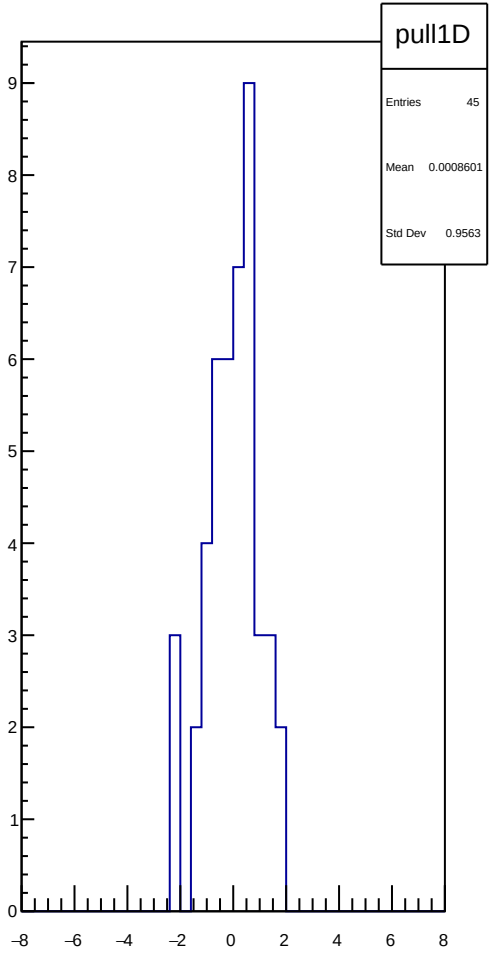
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2731
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.0008601
Std Dev 0.9563
9
8
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5
4
3
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−8
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−4
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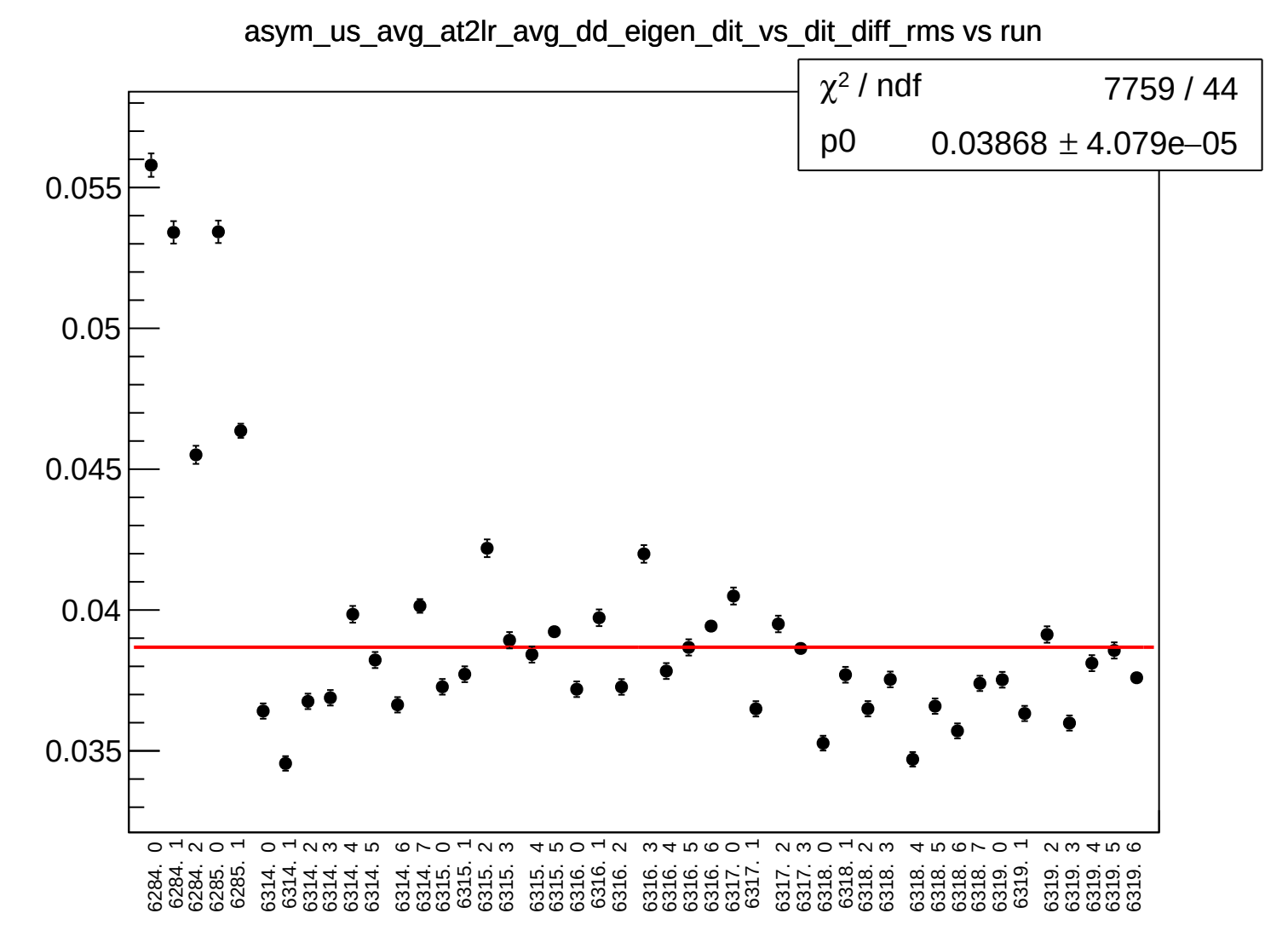
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7759 / 44
p0 0.03868 ± 4.079e–05
0.055
0.05
0.045
0.04
0.035
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 2
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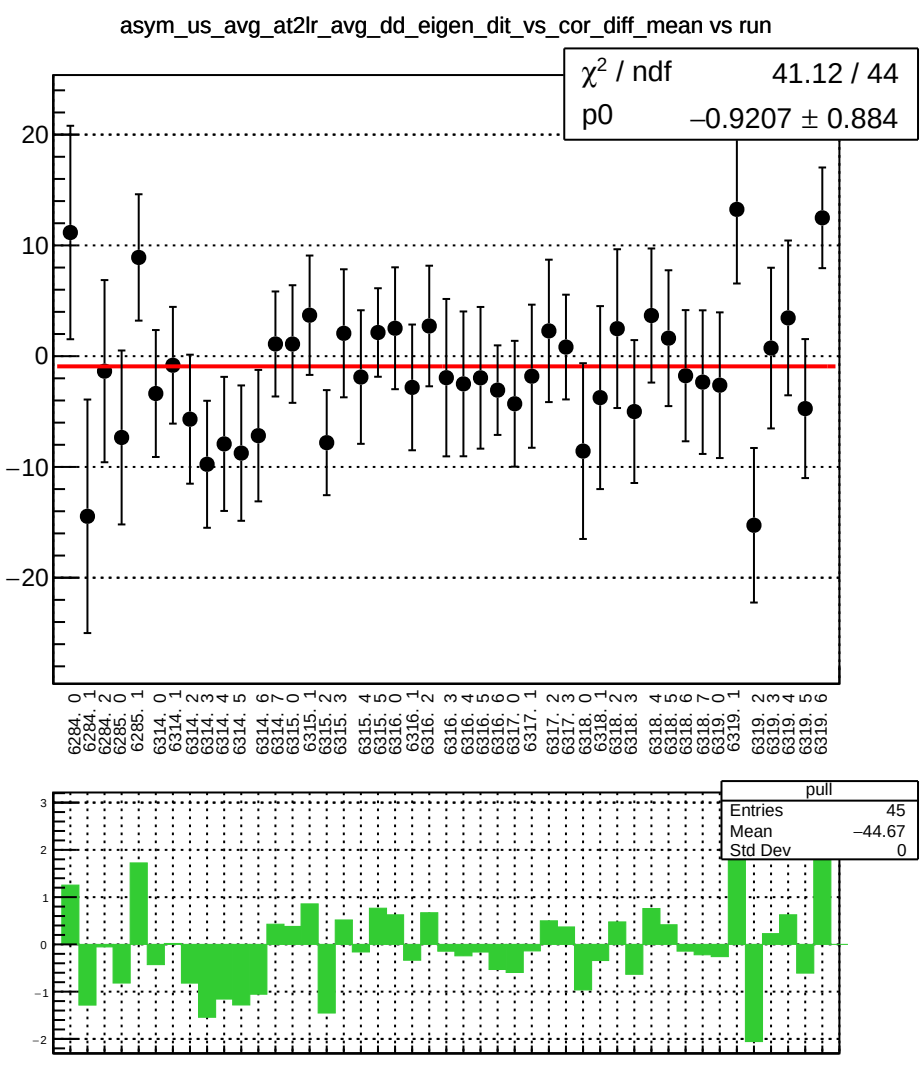
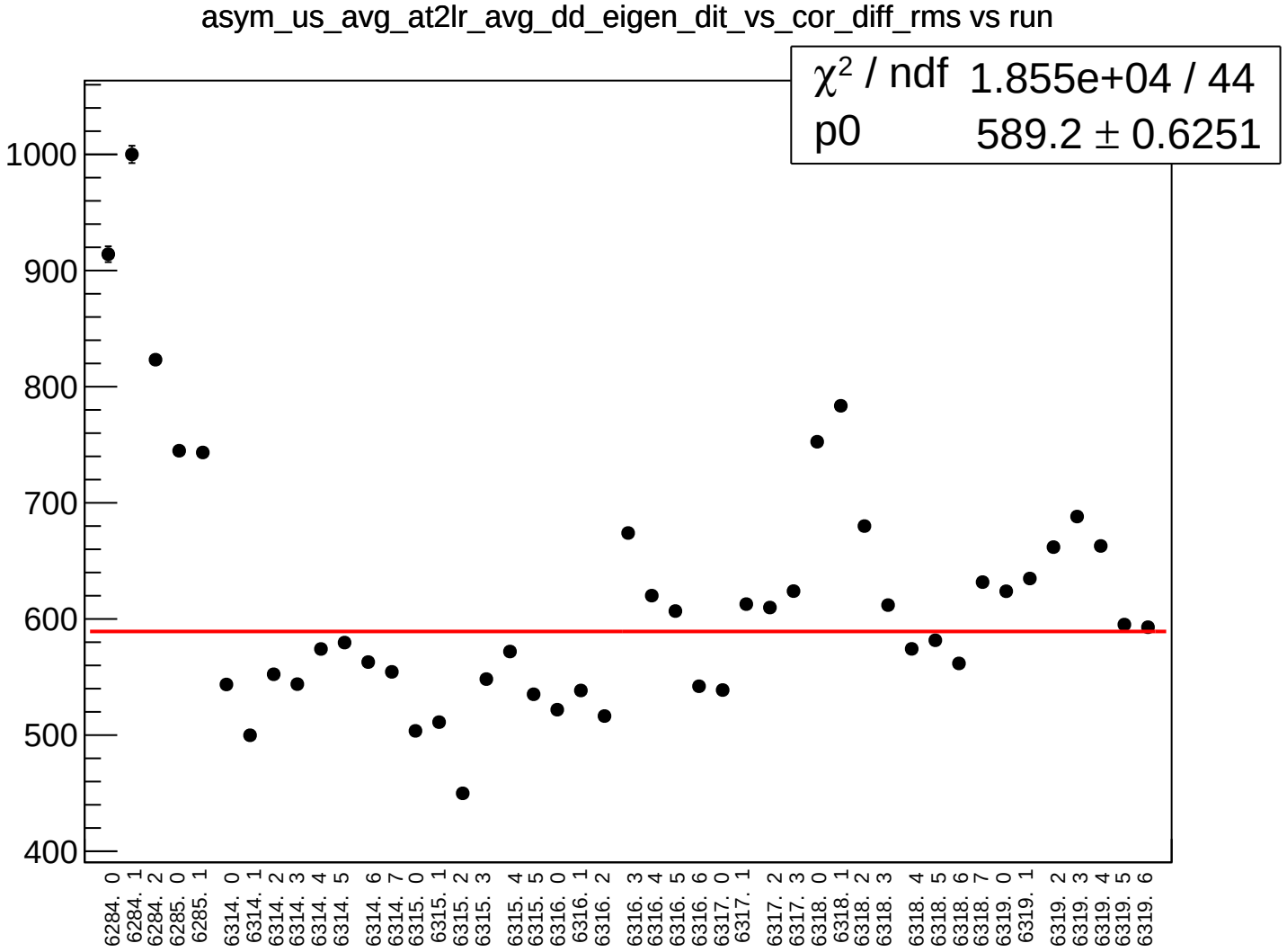
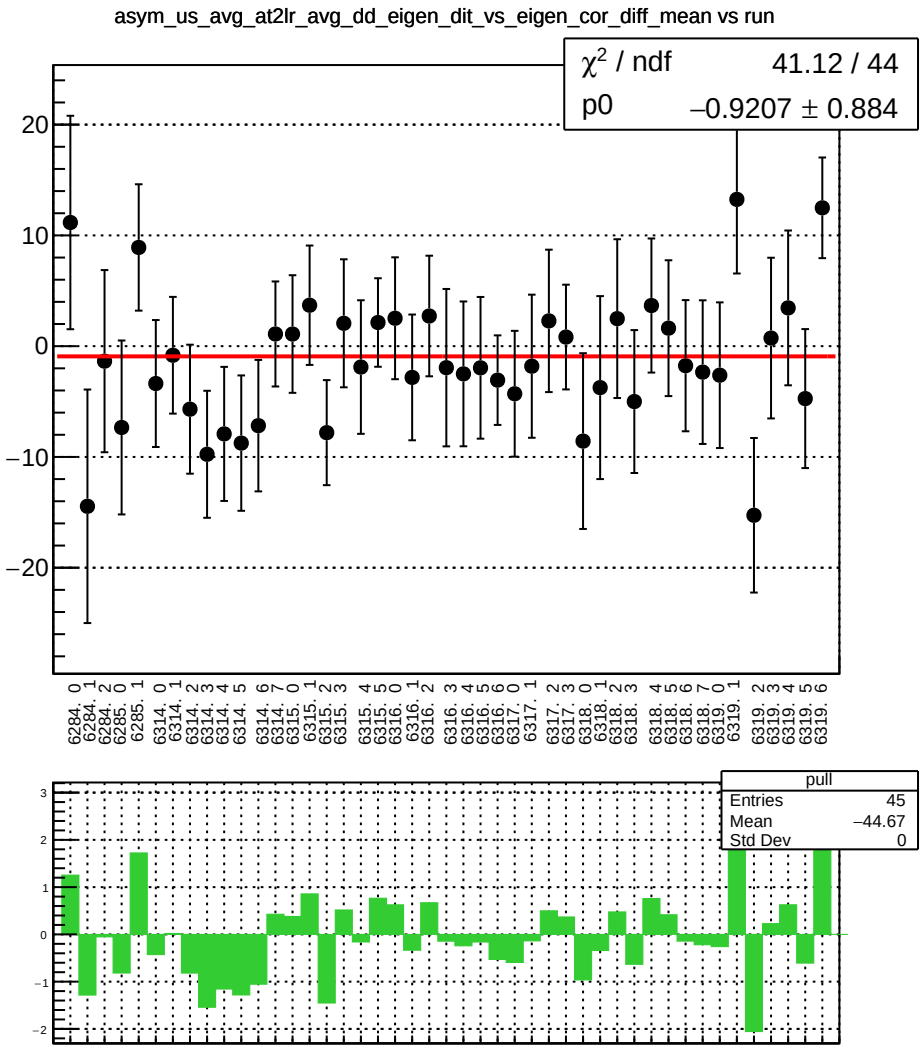
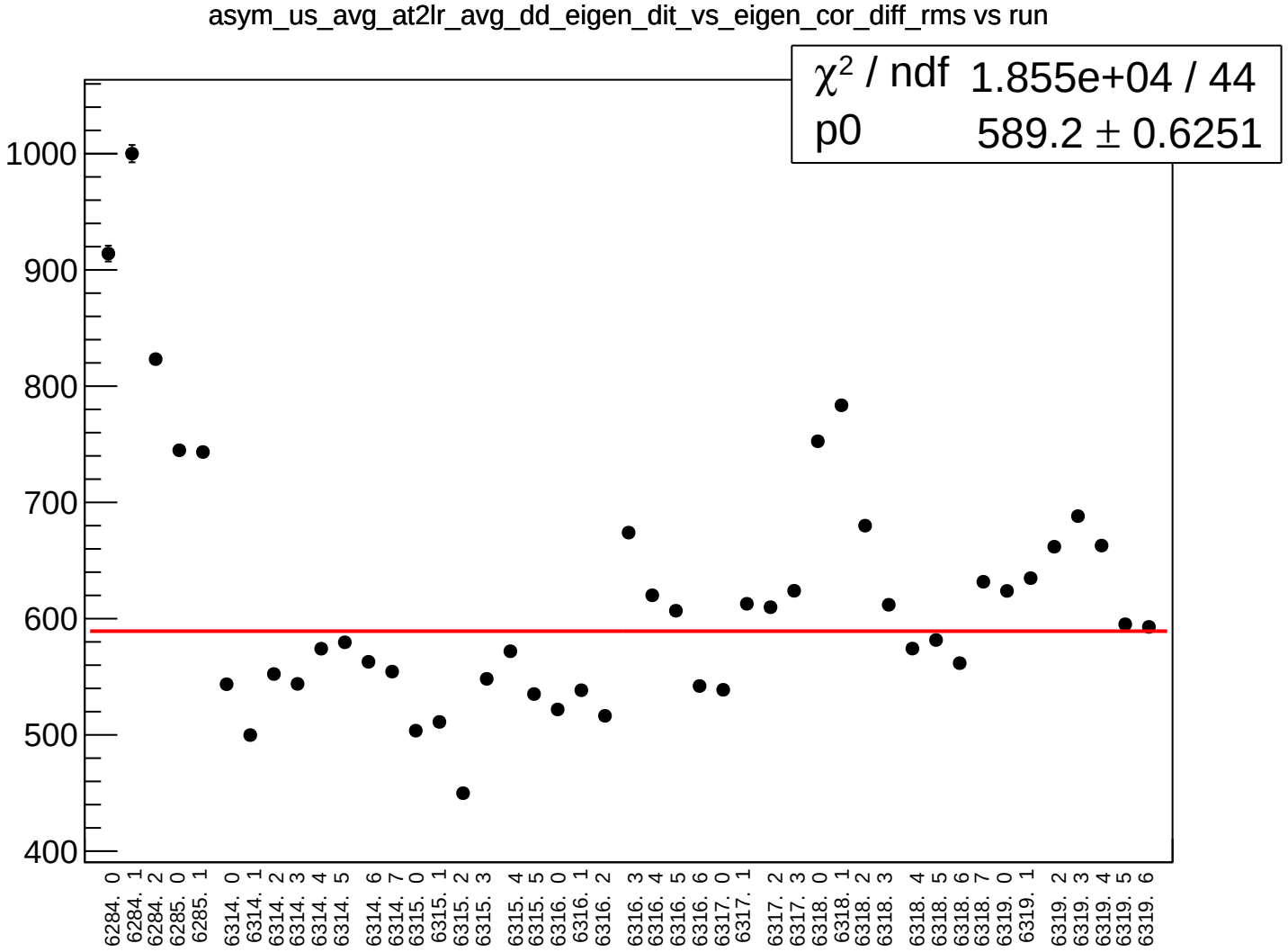
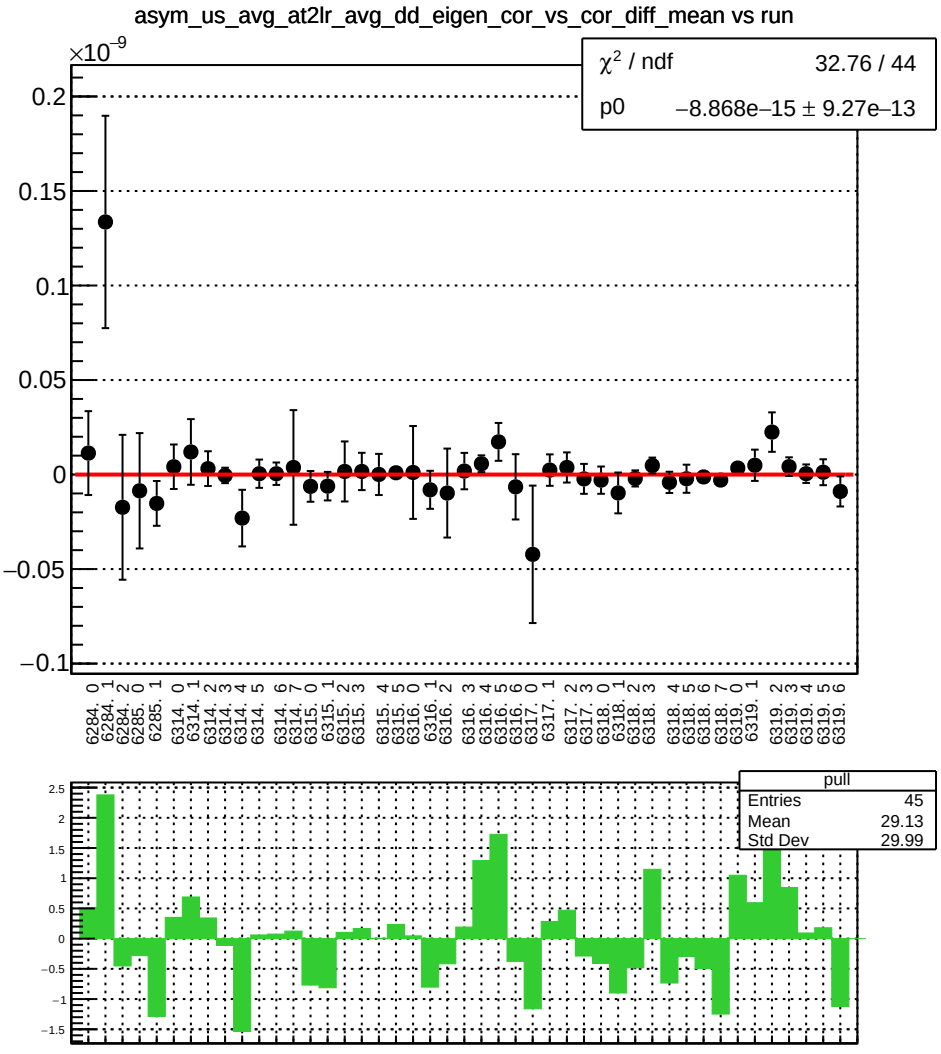
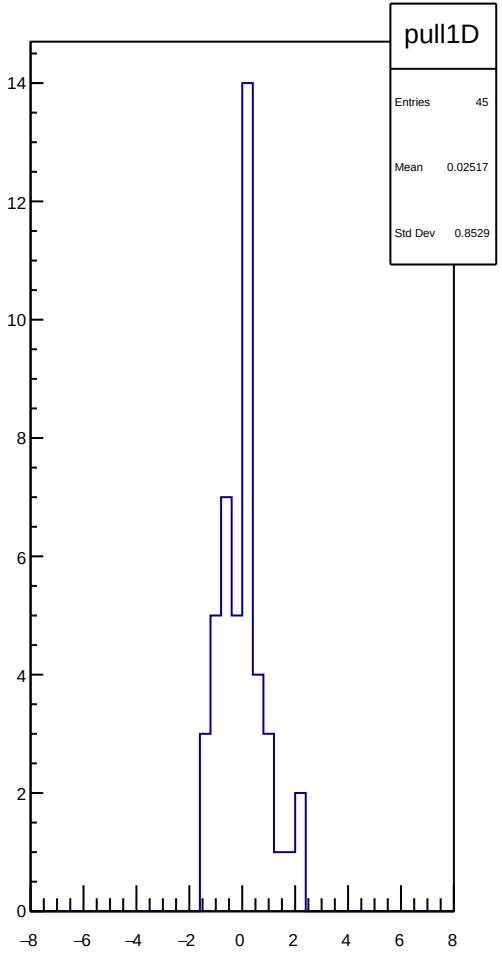

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.12 / 44
p0 −0.9207 ± 0.884
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −44.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03858
Std Dev 0.9551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

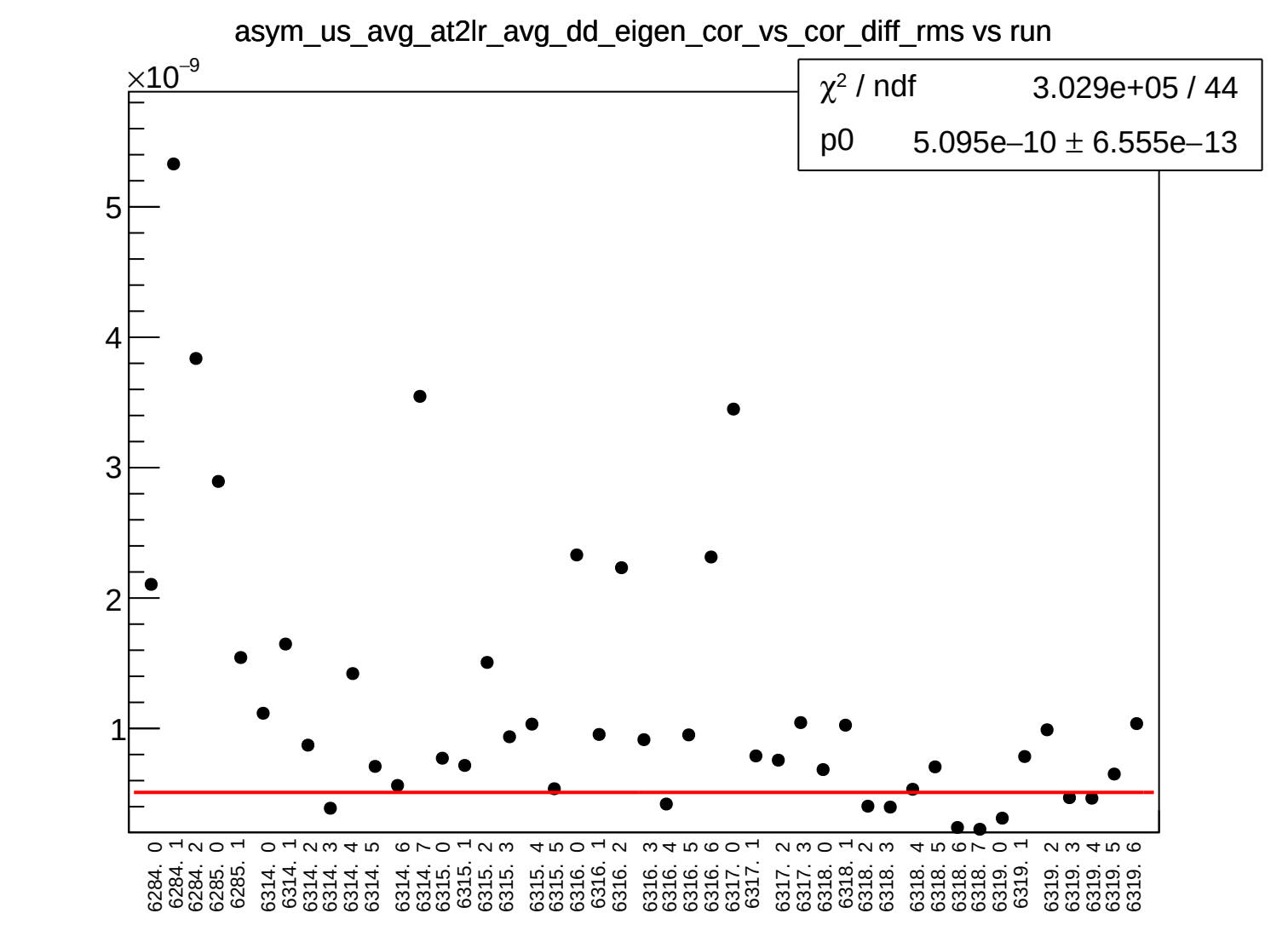

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+04 / 44
p0 589.2 ± 0.6251
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

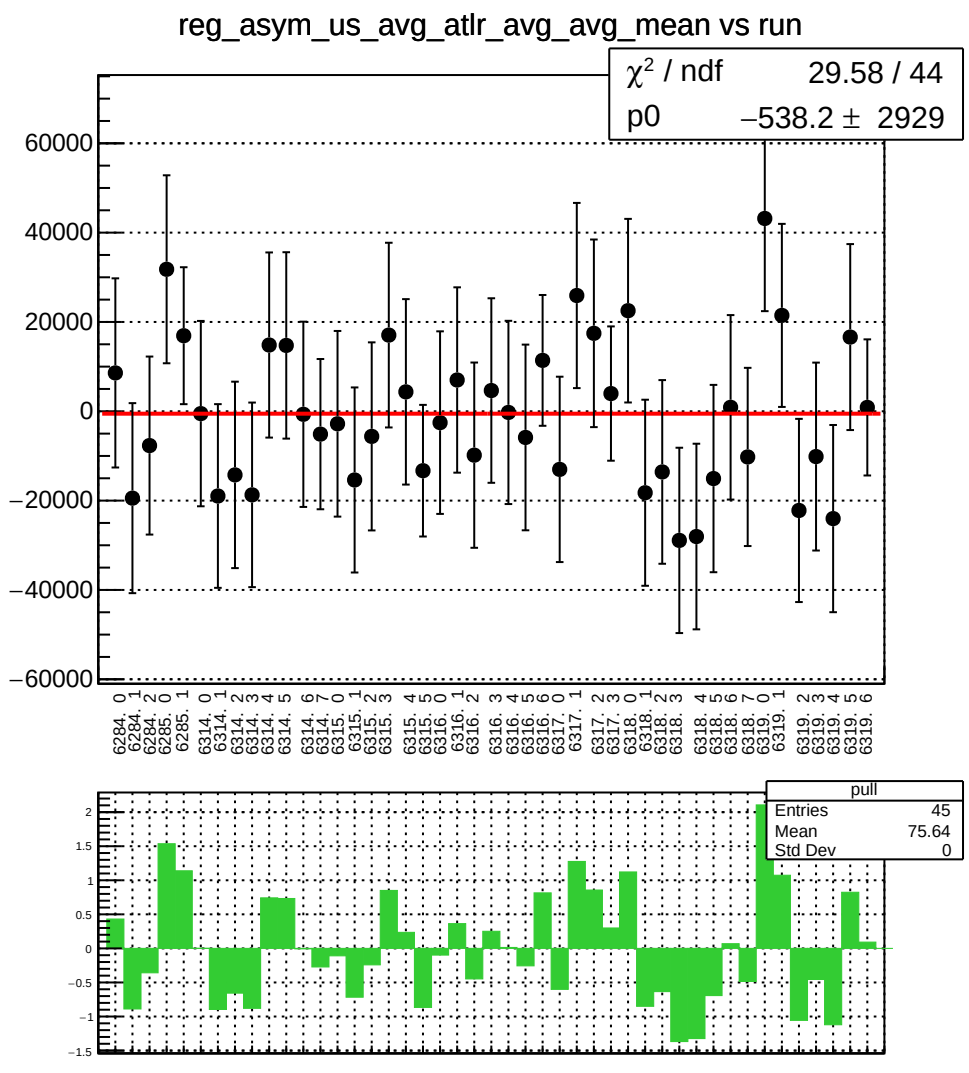

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.12 / 44
p0 −0.9207 ± 0.884
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −44.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03858
Std Dev 0.9551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

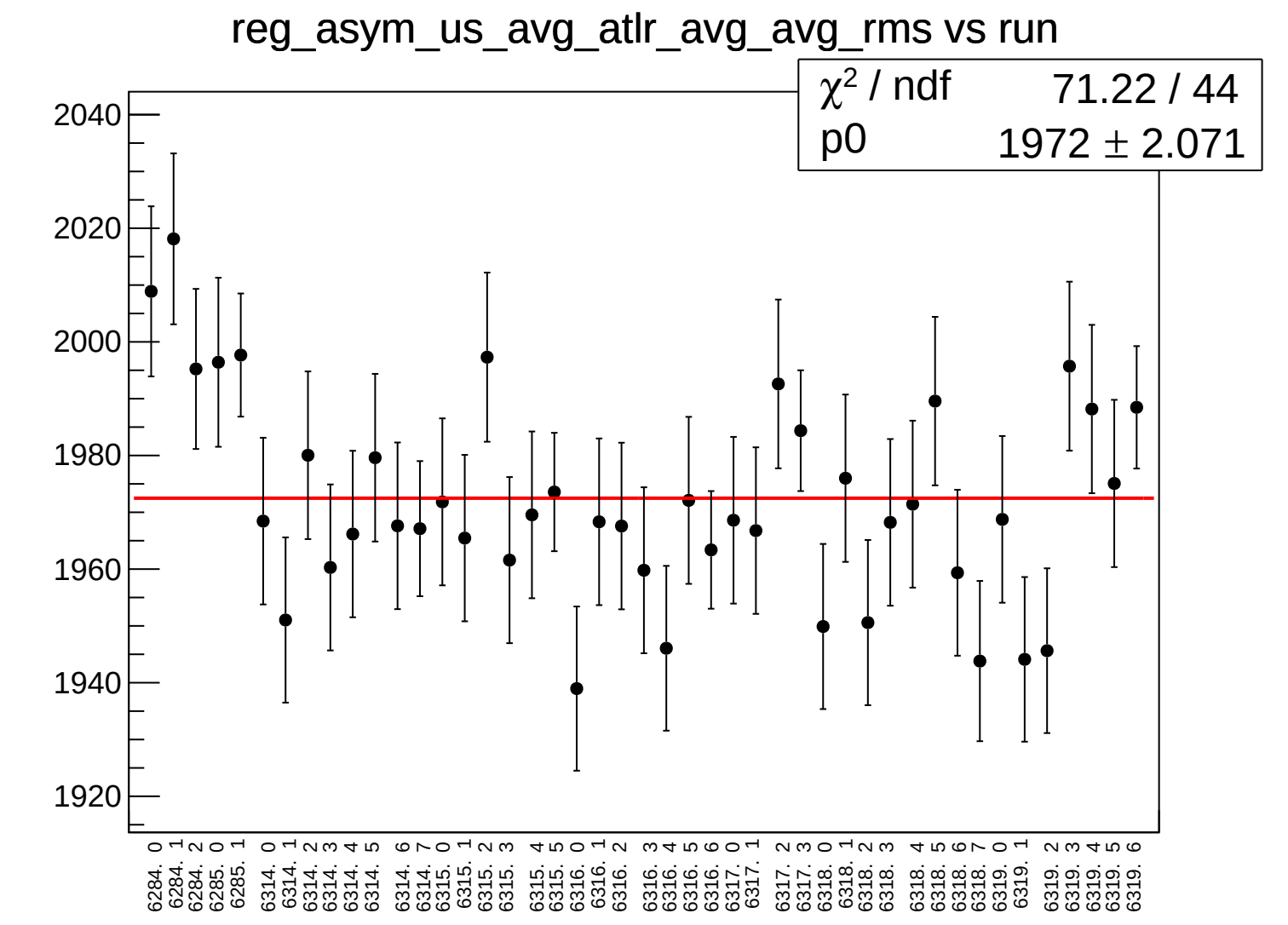

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+04 / 44
p0 589.2 ± 0.6251
1000
900
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 32.76 / 44
p0 −8.868e−15 ± 9.27e−13
0.2
0.15
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.13
Std Dev 29.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.02517
Std Dev 0.8529
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.029e+05 / 44
p0 5.095e−10 ± 6.555e−13
5
4
3
2
1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 29.58 / 44
p0 −538.2 ± 2929
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.009962
Std Dev 0.8106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.22 / 44
p0 1972 ± 2.071
2040
2020
2000
1980
1960
1940
1920
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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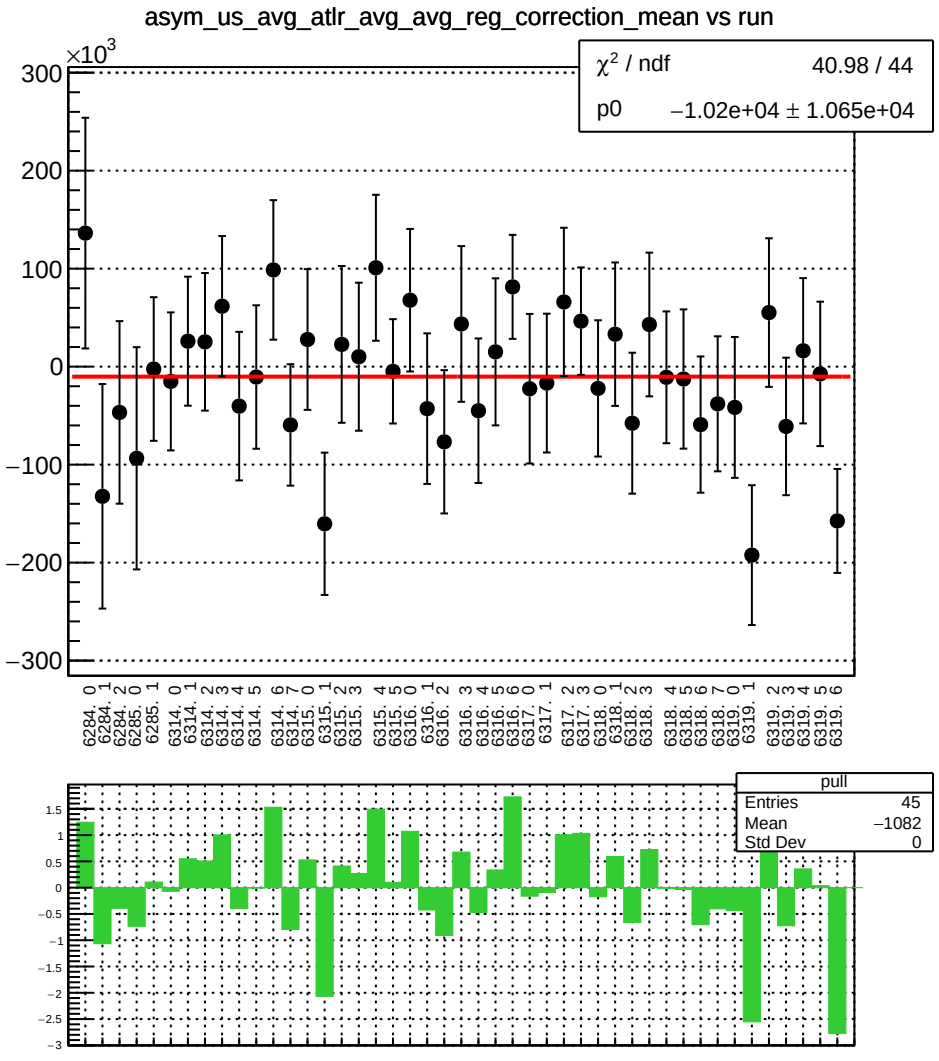
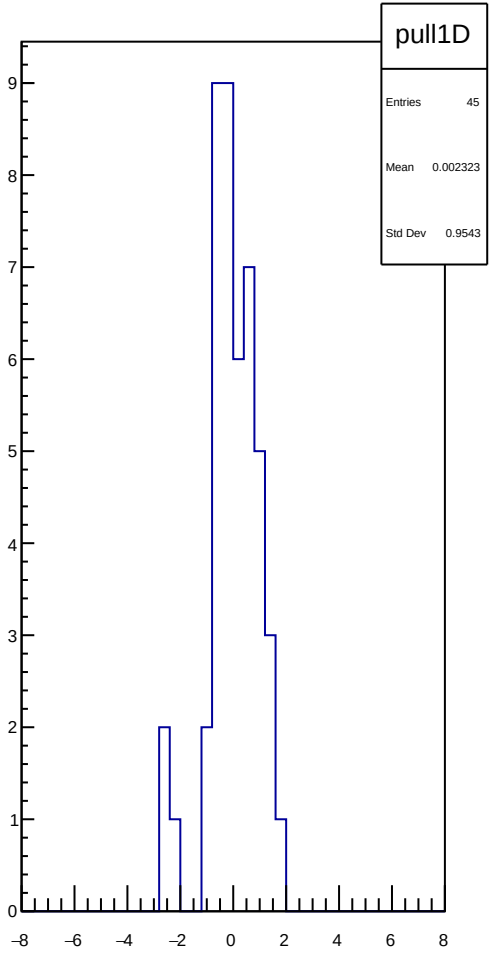
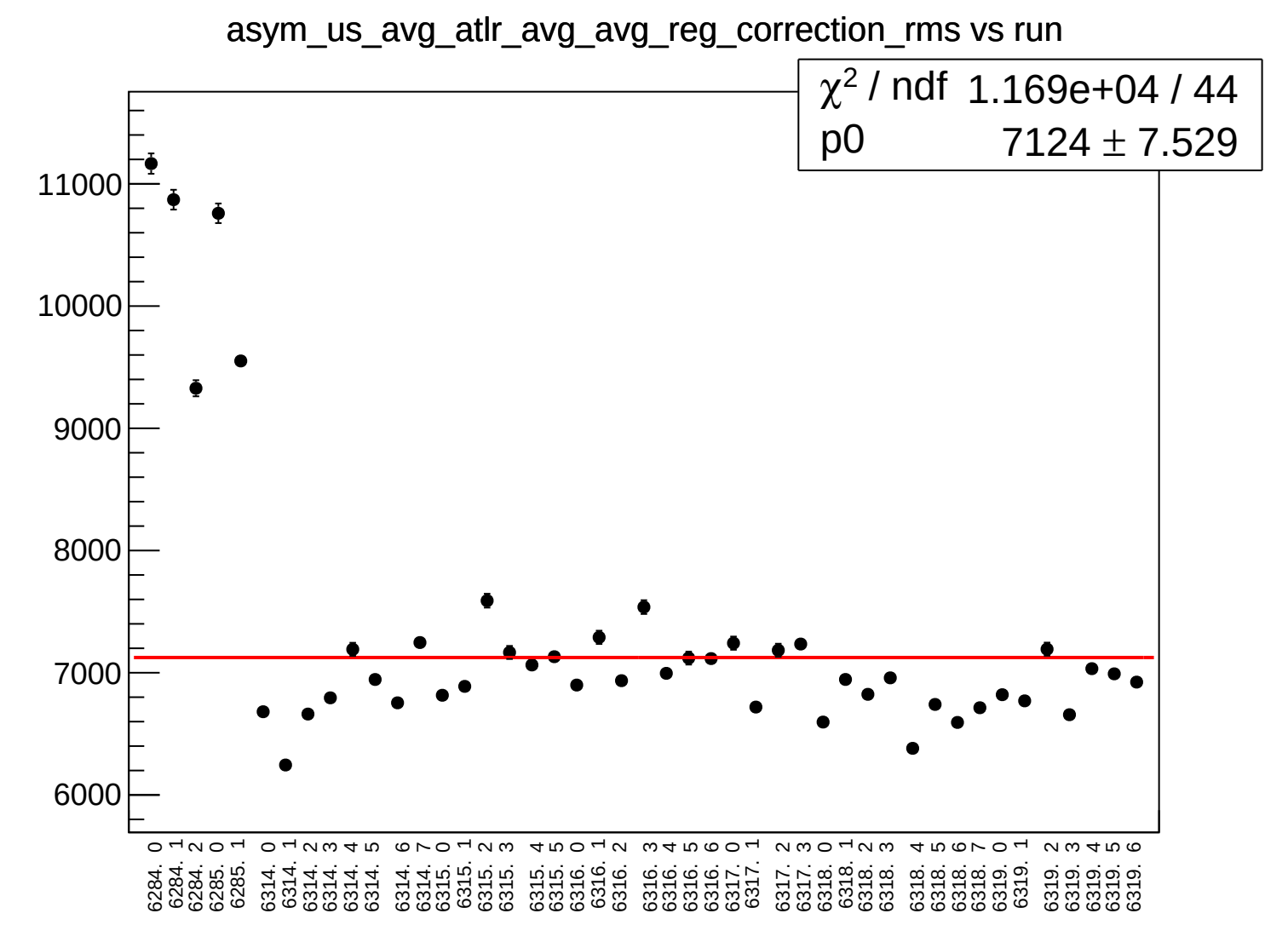
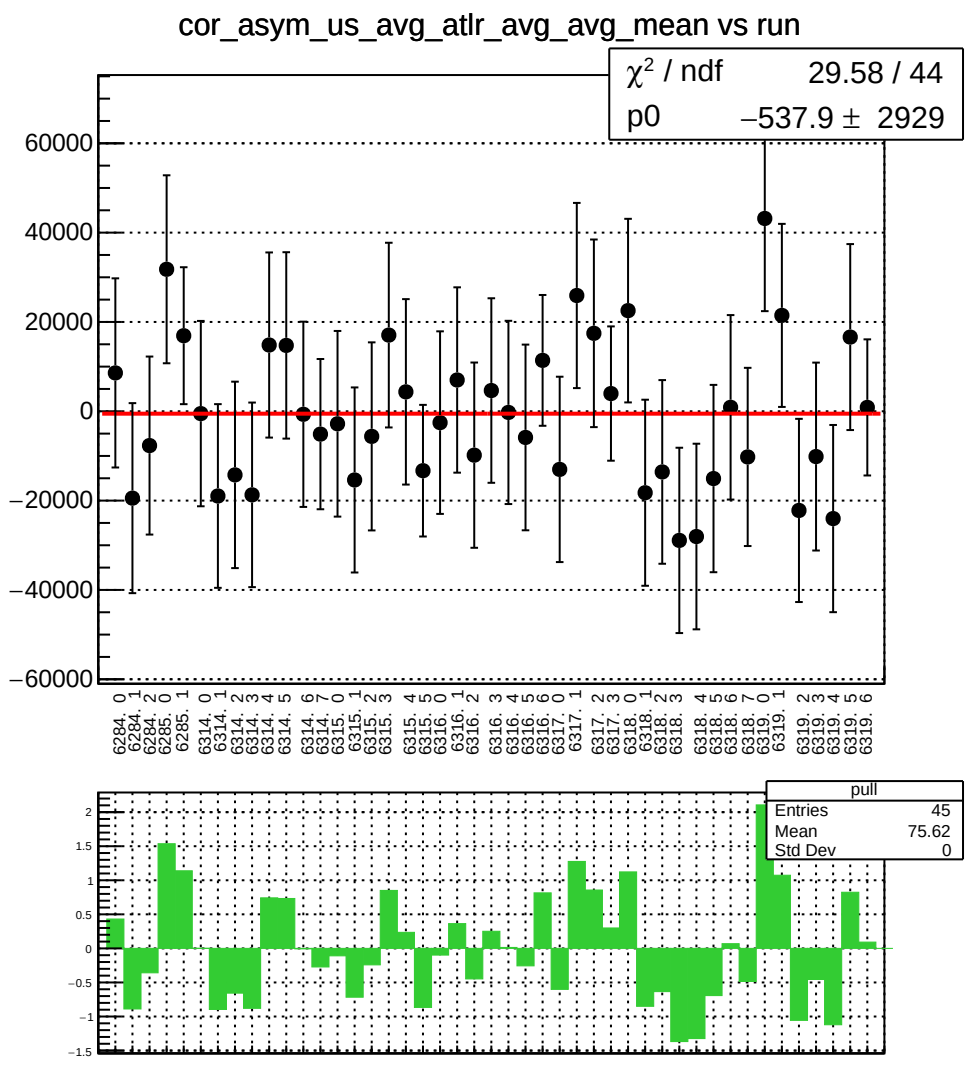
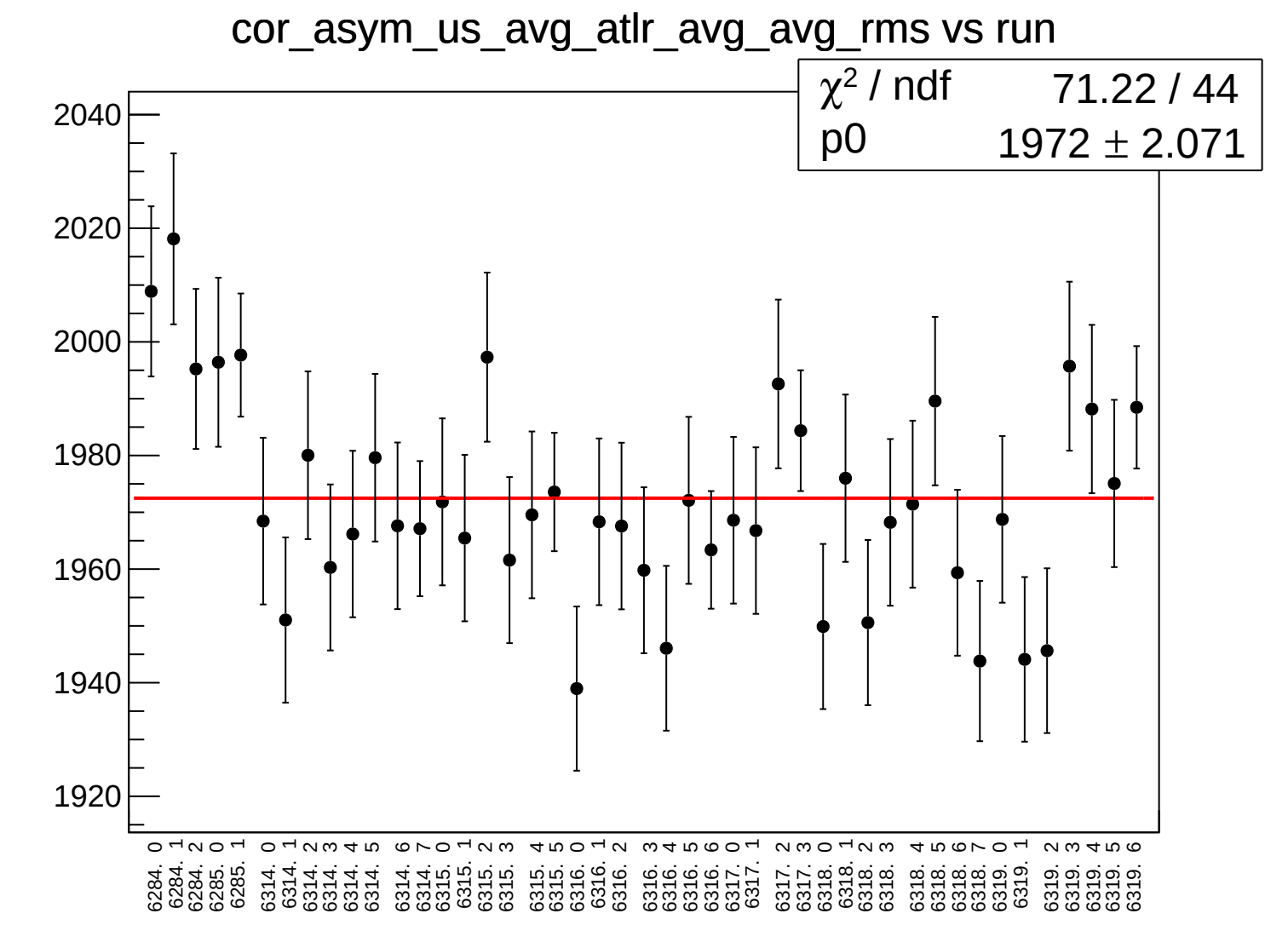
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

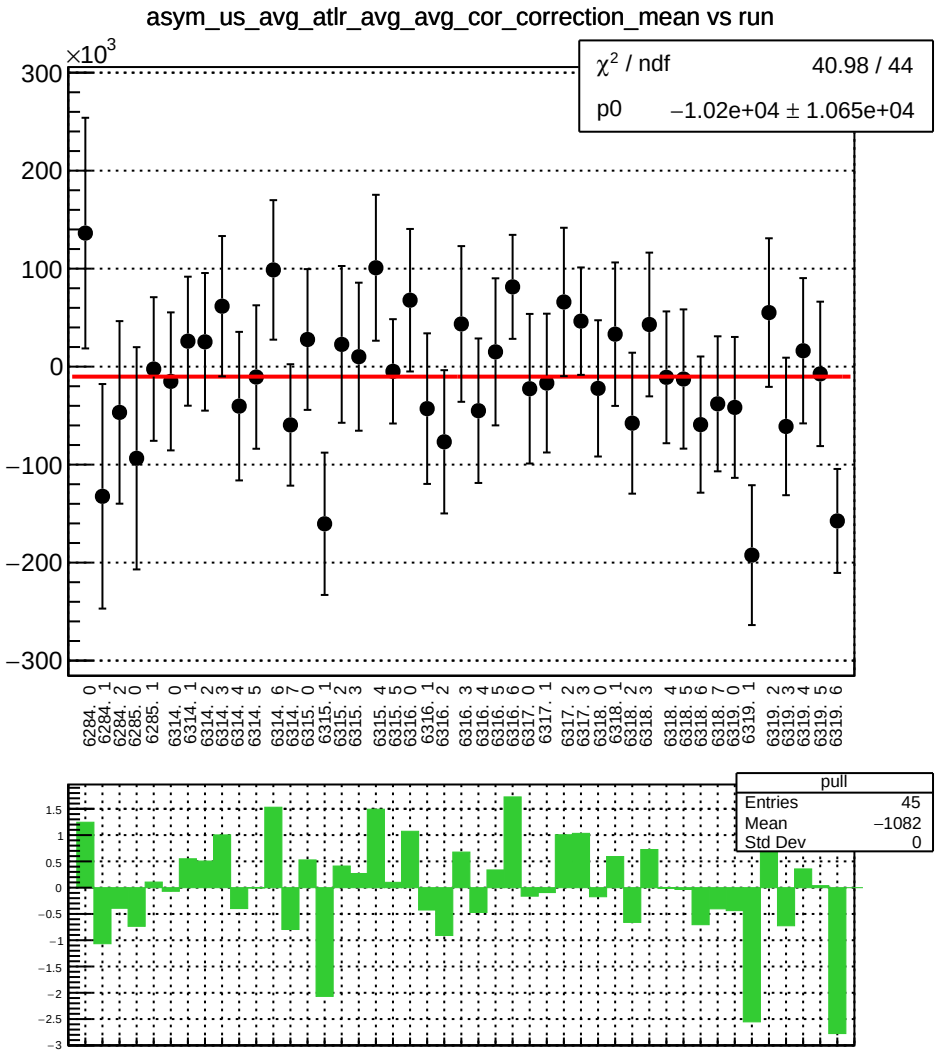

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.98 / 44
p0 −1.02e+04 ± 1.065e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1082
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

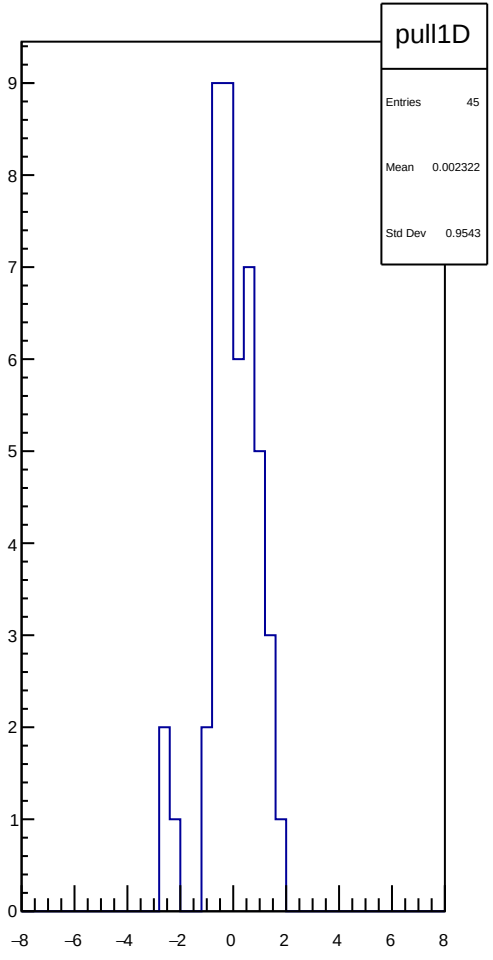

pull1D
Entries 45
Mean 0.002323
Std Dev 0.9543
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

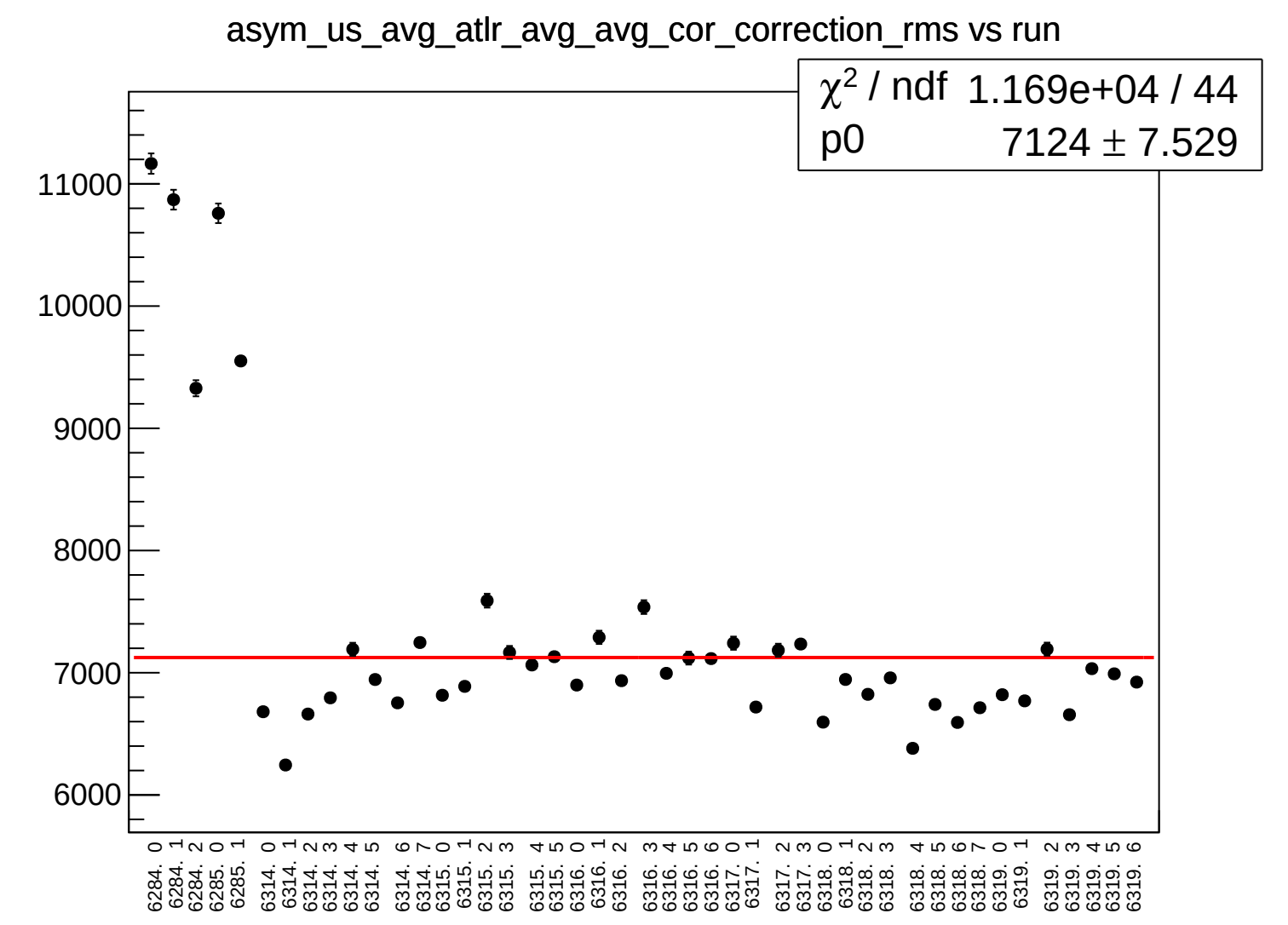

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.169e+04 / 44
p0 7124 ± 7.529
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

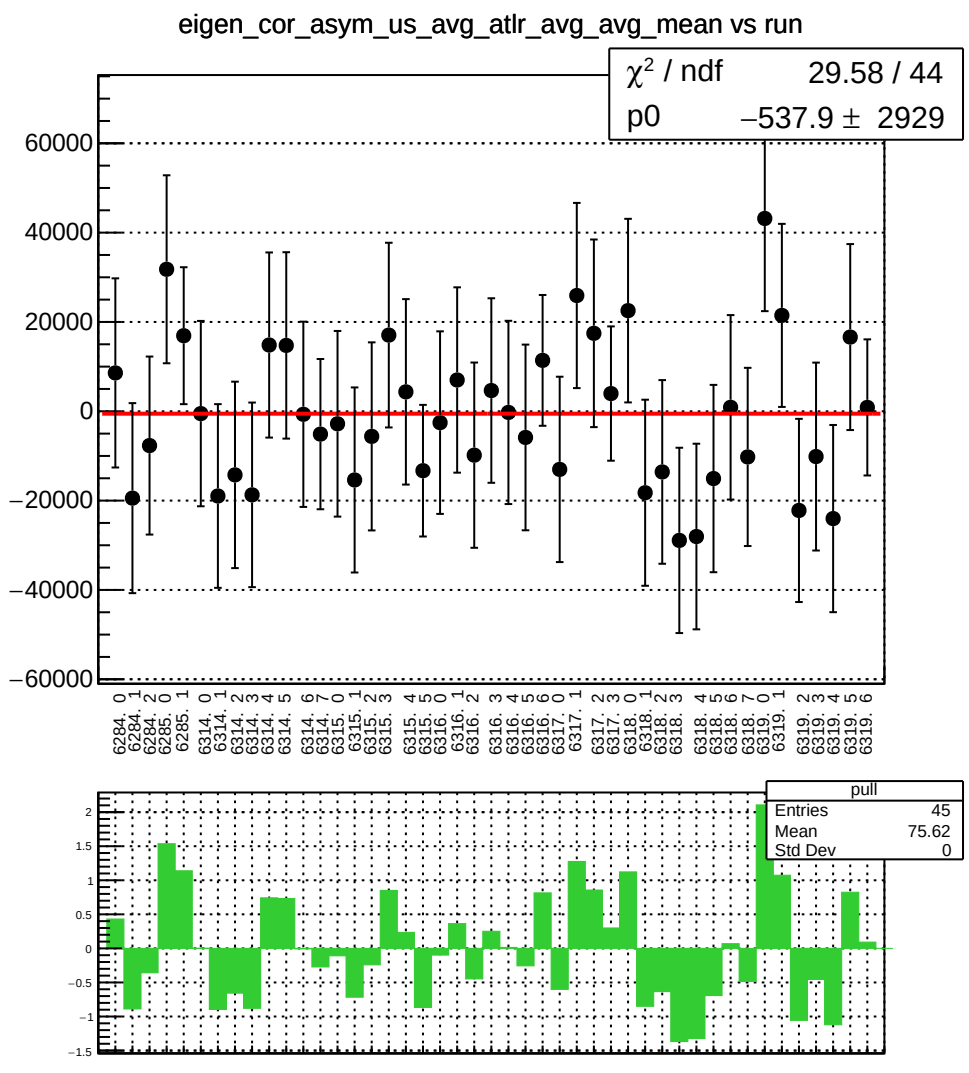

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 29.58 / 44
p0 −537.9 ± 2929
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.009961
Std Dev 0.8107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

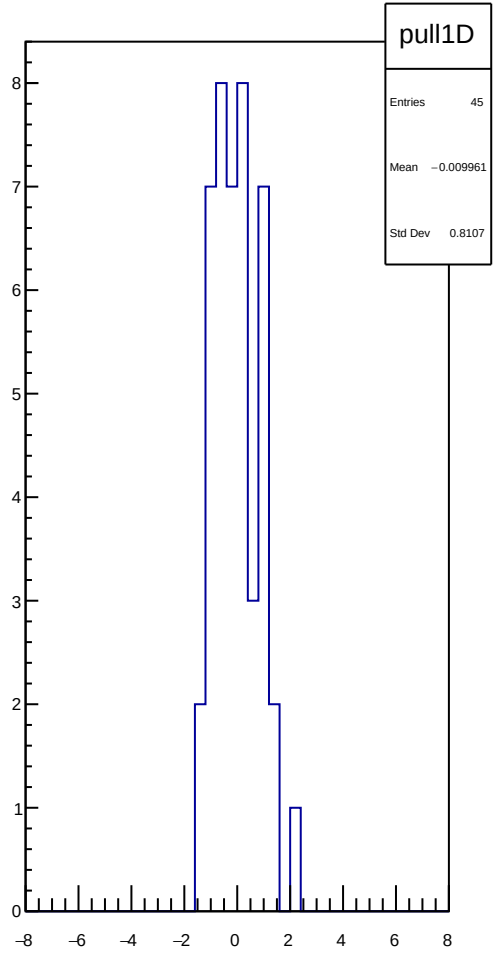

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.22 / 44
p0 1972 ± 2.071
2040
2020
2000
1980
1960
1940
1920
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

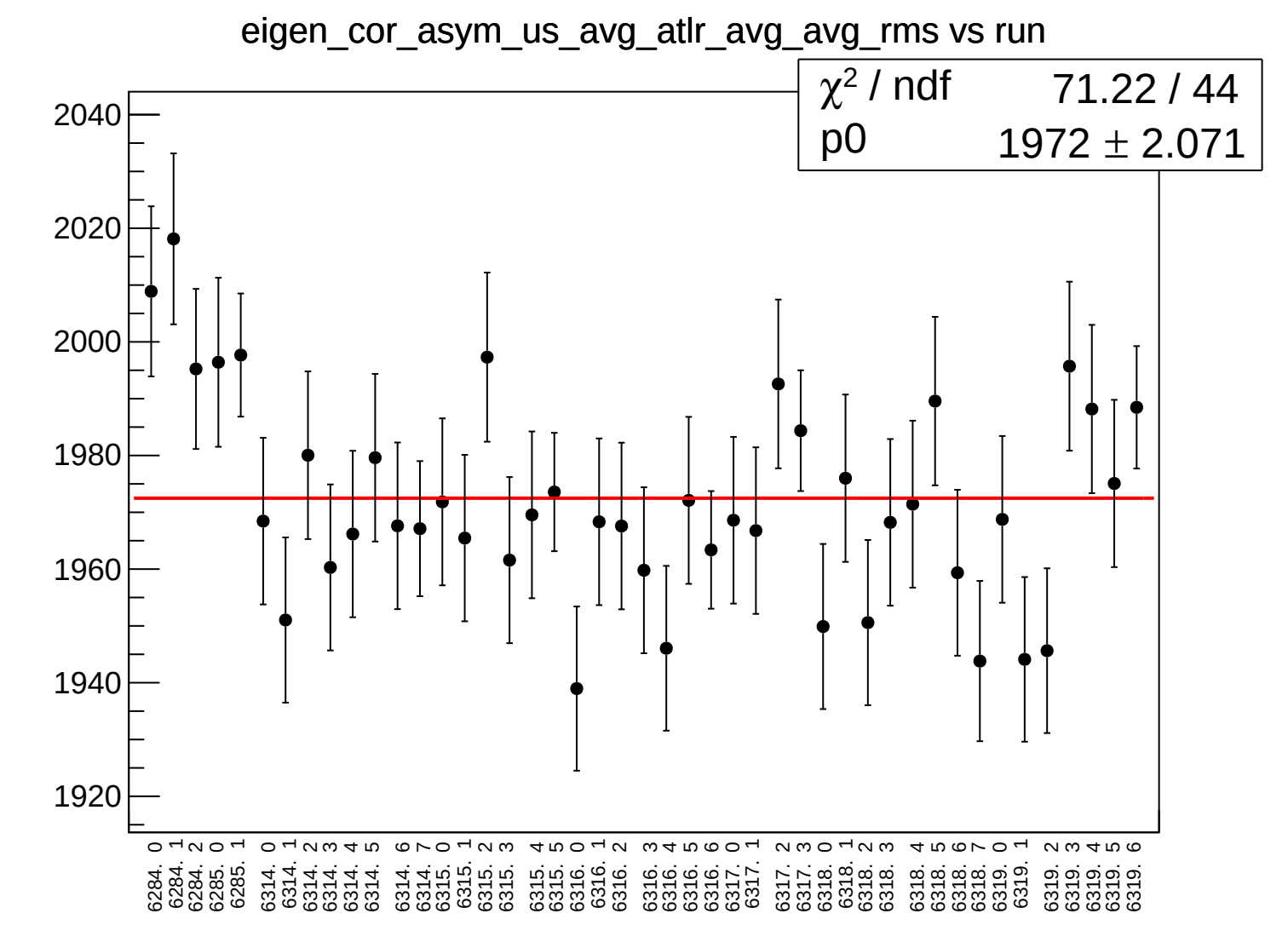

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.98 / 44
p0 −1.02e+04 ± 1.065e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1082
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

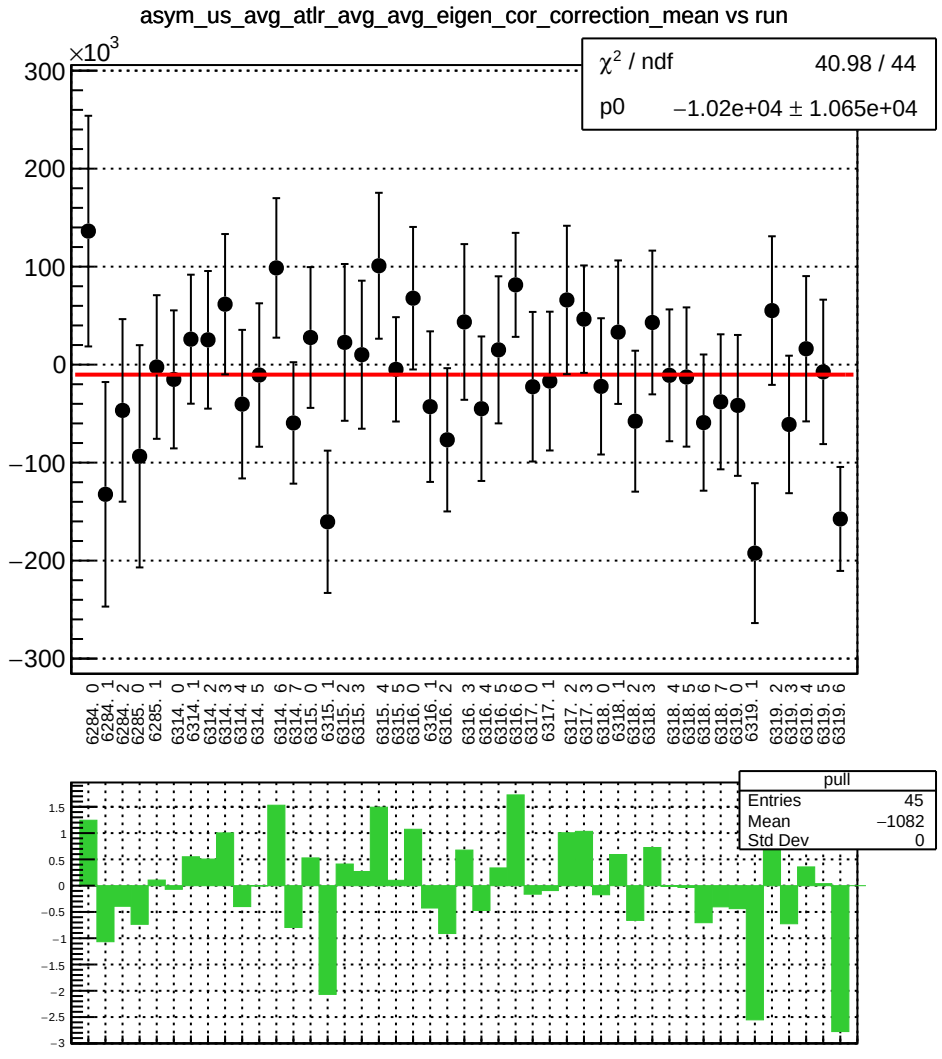

pull1D
Entries 45
Mean 0.002322
Std Dev 0.9543
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

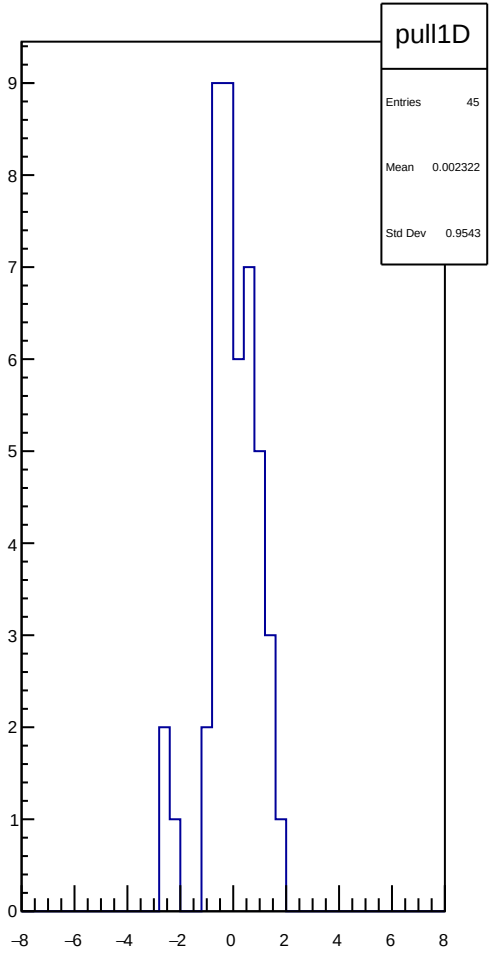

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.169e+04 / 44
p0 7124 ± 7.529
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

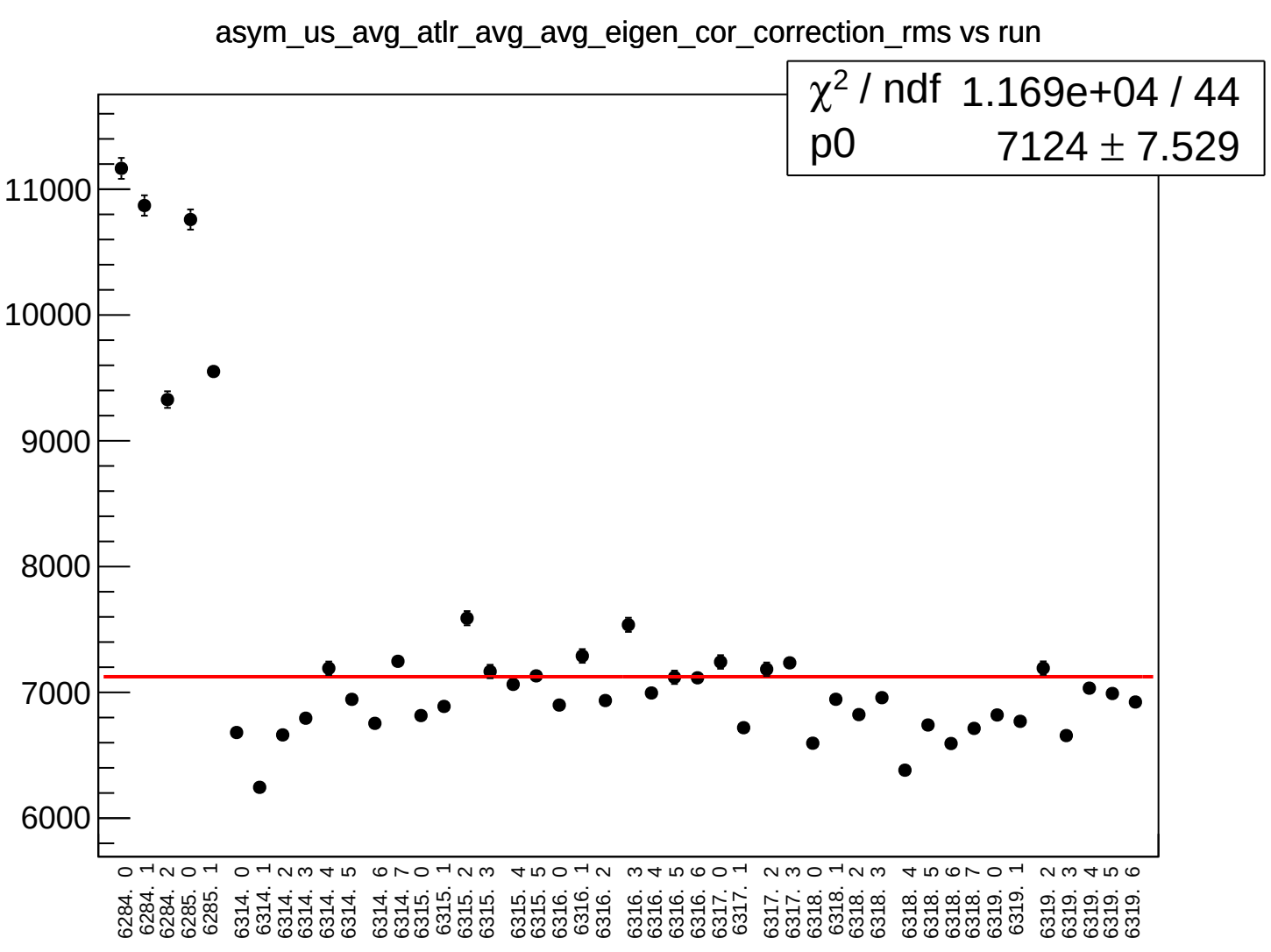

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 29.58 / 44
p0 −537.9 ± 2929
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

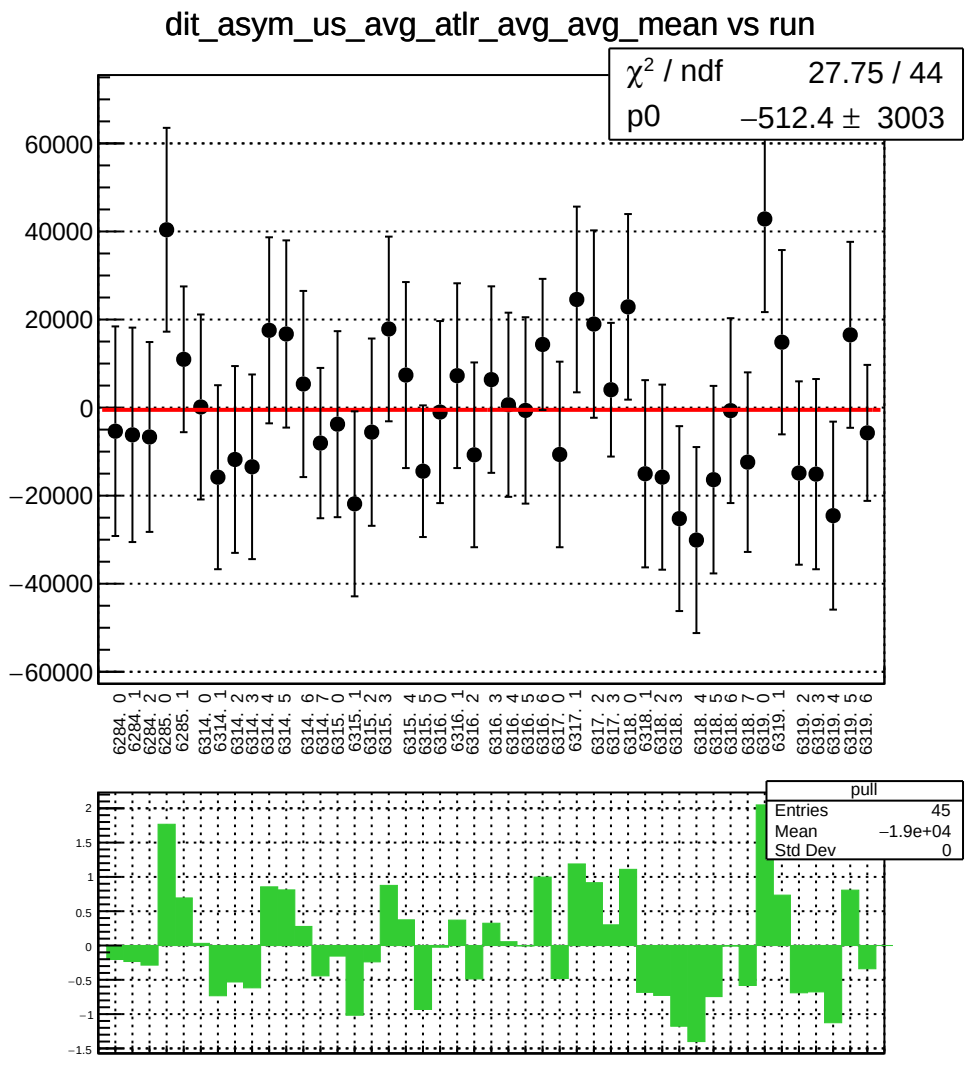

pull1D
Entries 45
Mean −0.009961
Std Dev 0.8107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

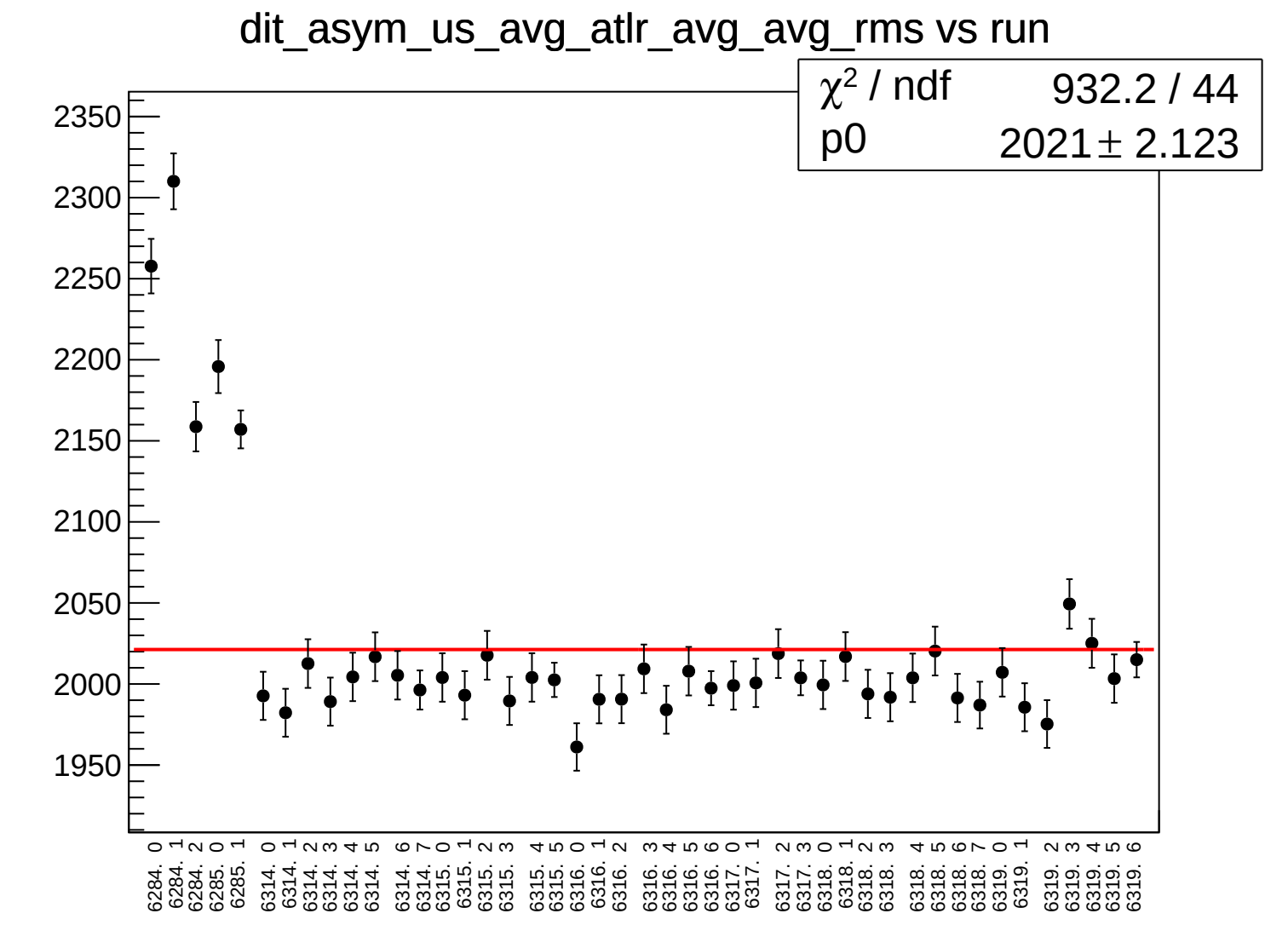

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.22 / 44
p0 1972 ± 2.071
2040
2020
2000
1980
1960
1940
1920
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

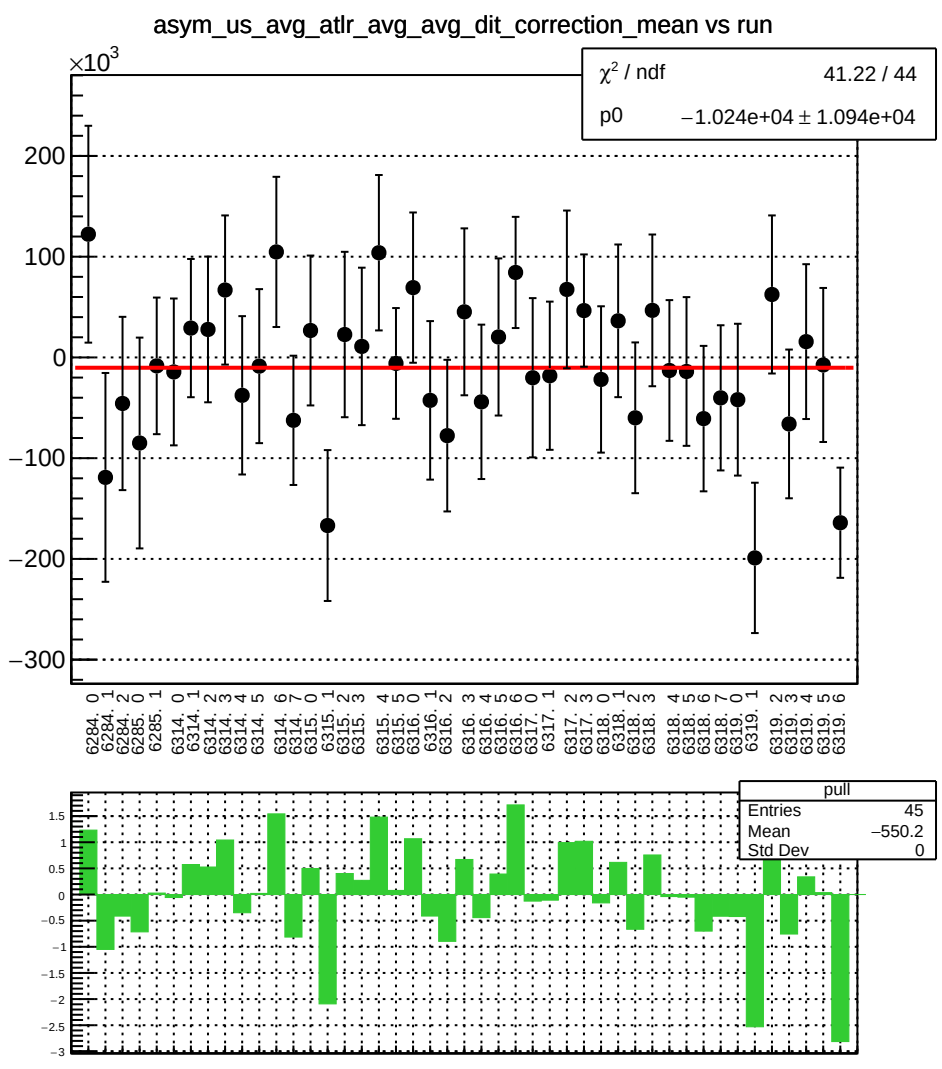

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.98 / 44
p0 −1.02e+04 ± 1.065e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1082
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

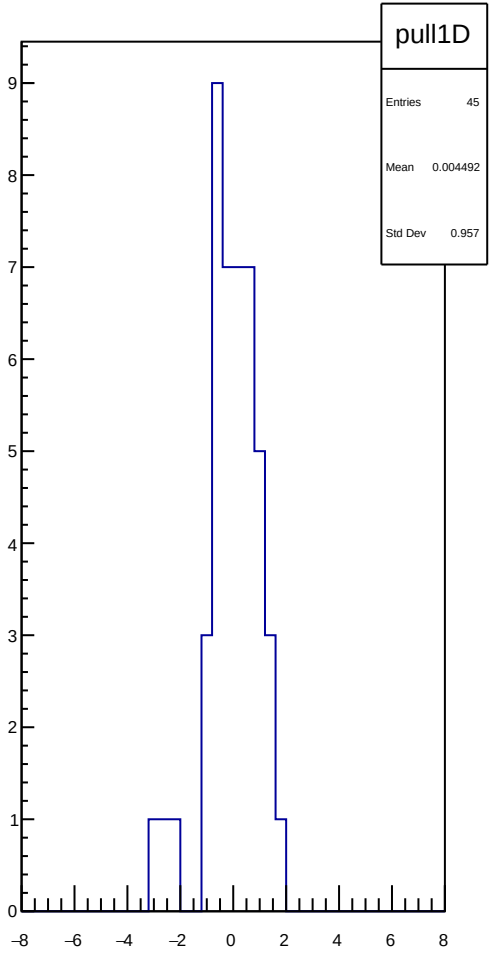

pull1D
Entries 45
Mean 0.002322
Std Dev 0.9543
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

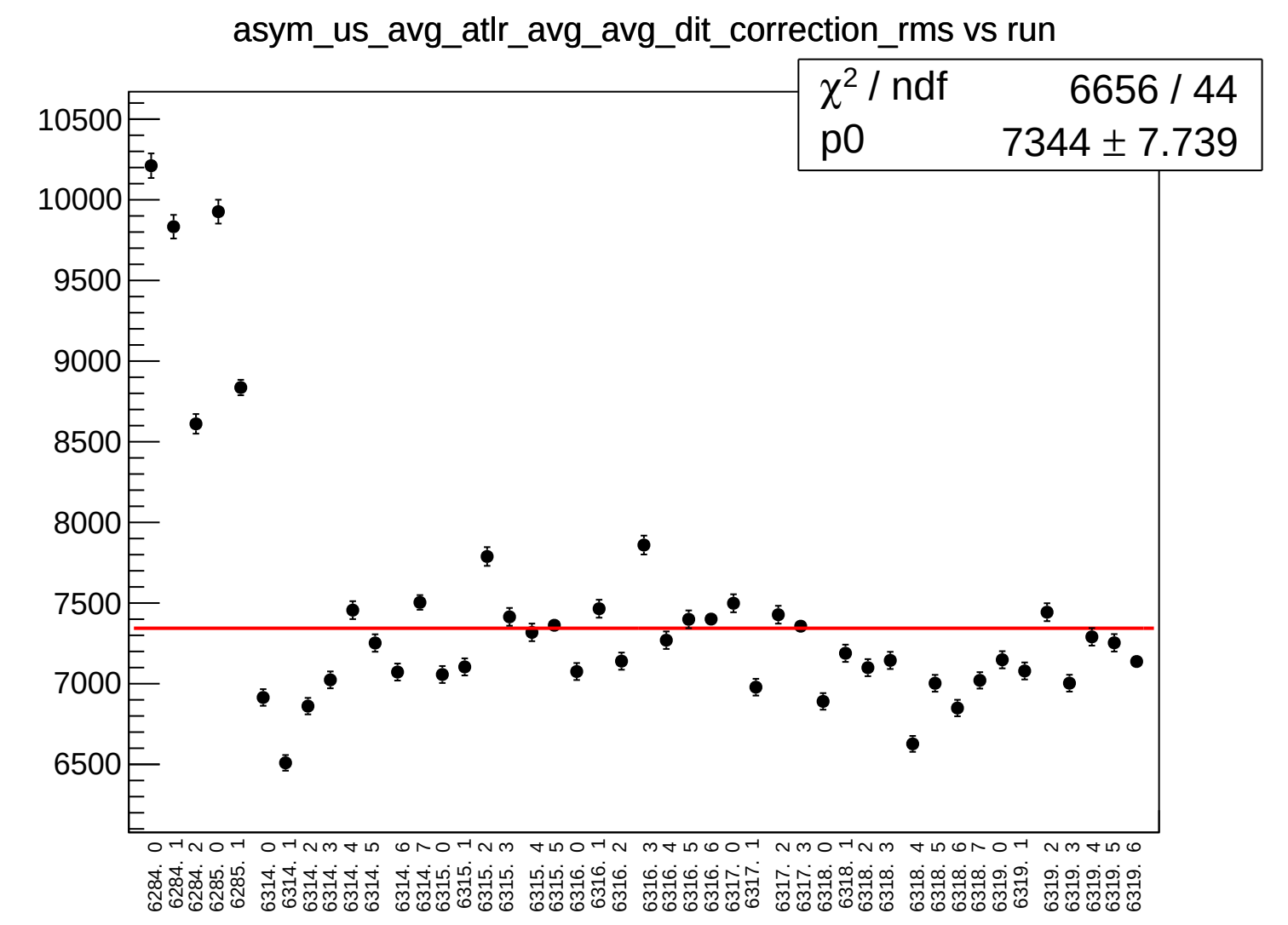

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.169e+04 / 44
p0 7124 ± 7.529
11000
10000
9000
8000
7000
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

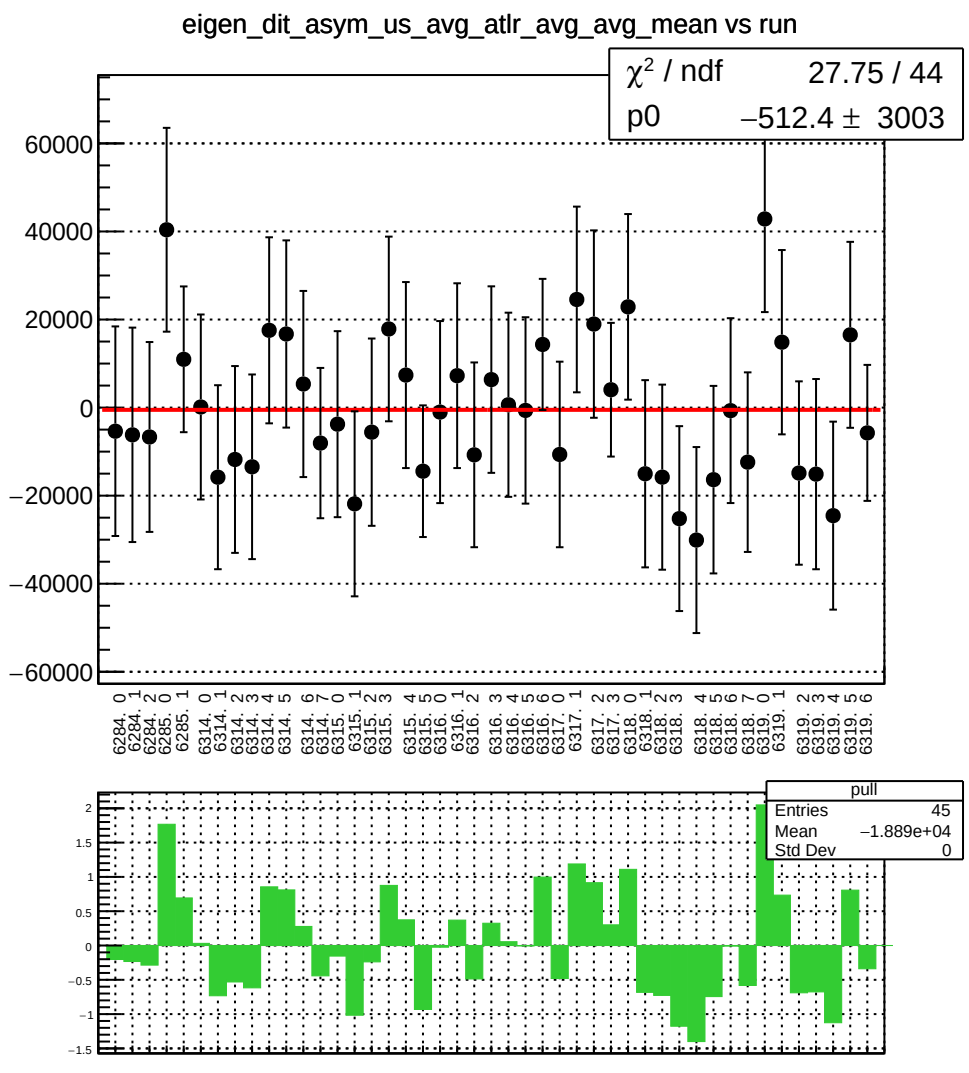

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 27.75 / 44
p0 −512.4 ± 3003
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1.9e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 5.397e−05
Std Dev 0.7852
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

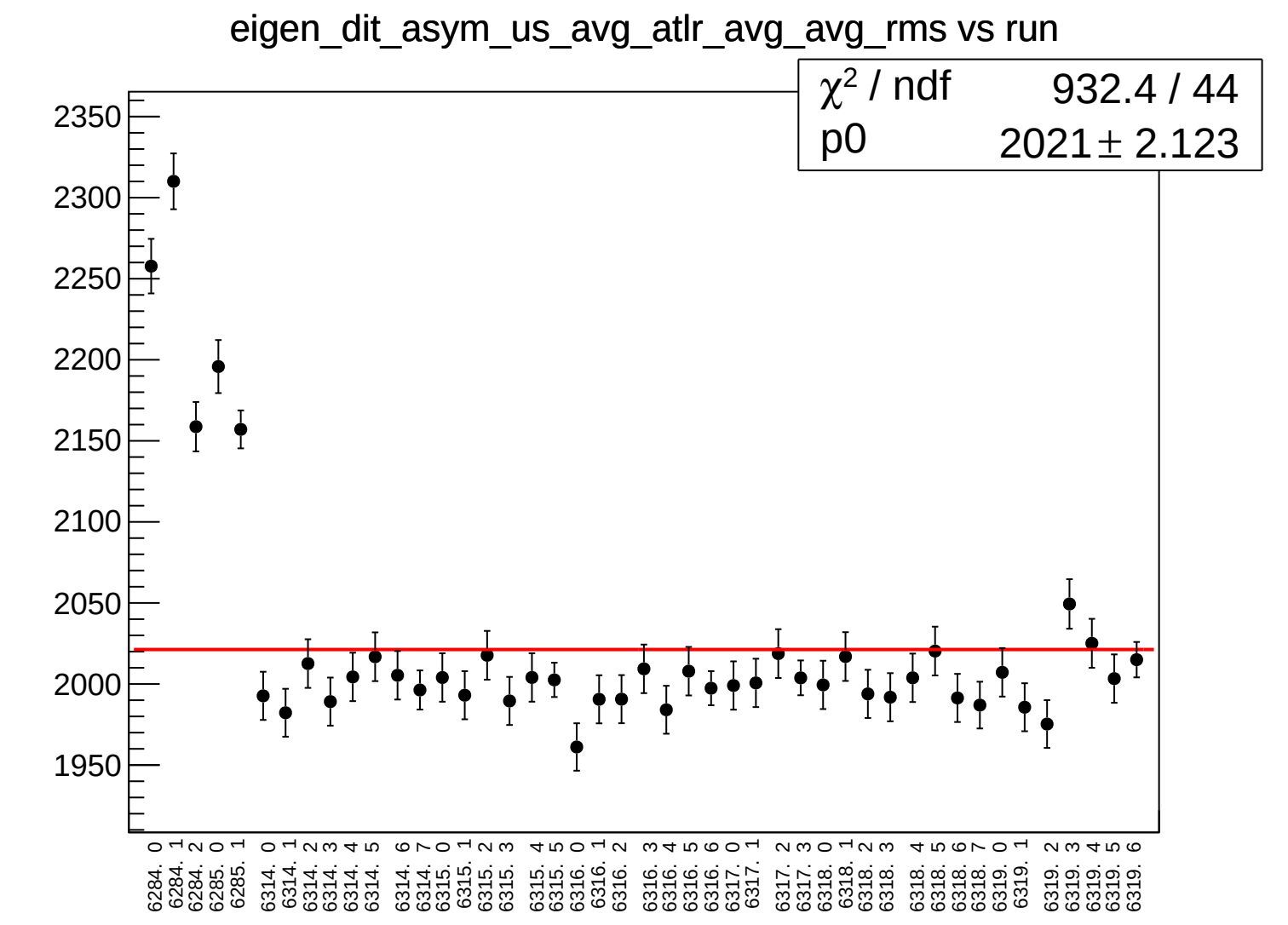

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 932.2 / 44
p0 2021 ± 2.123
2350
2300
2250
2200
2150
2100
2050
2000
1950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

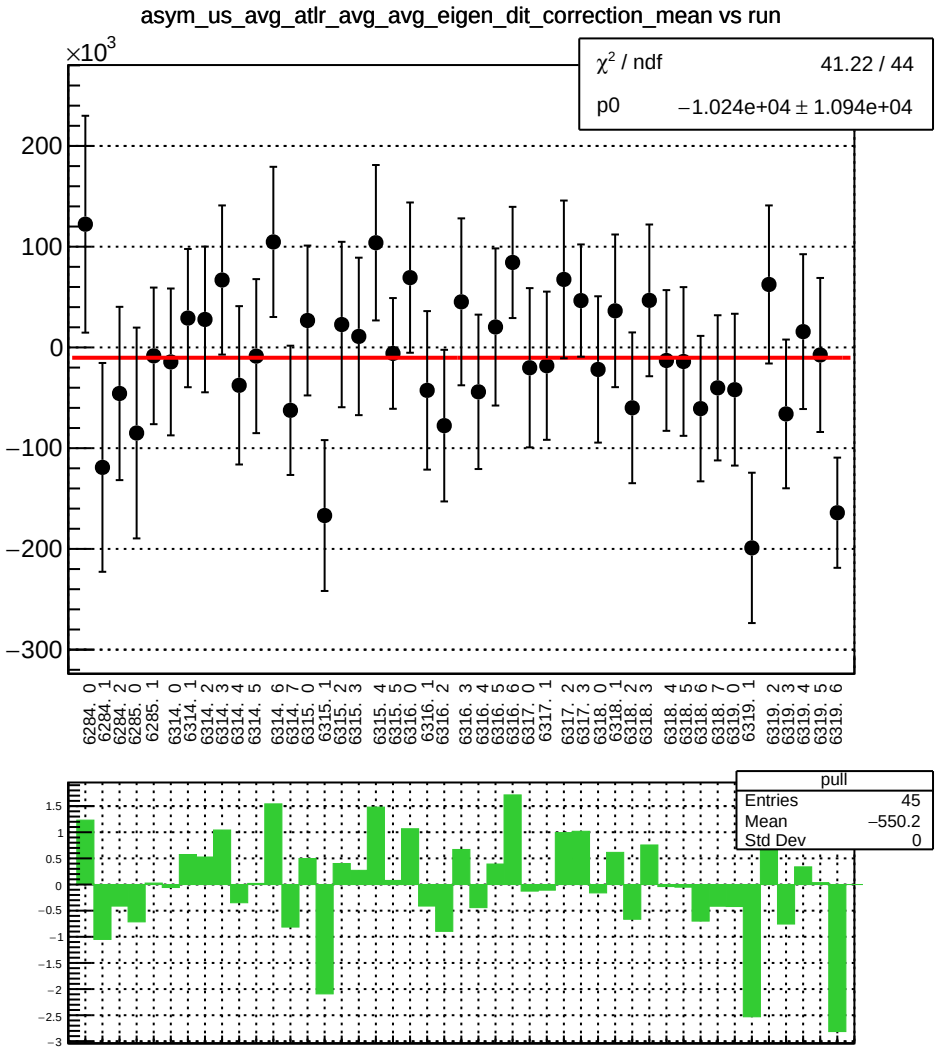

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −1.024e+04 ± 1.094e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −550.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

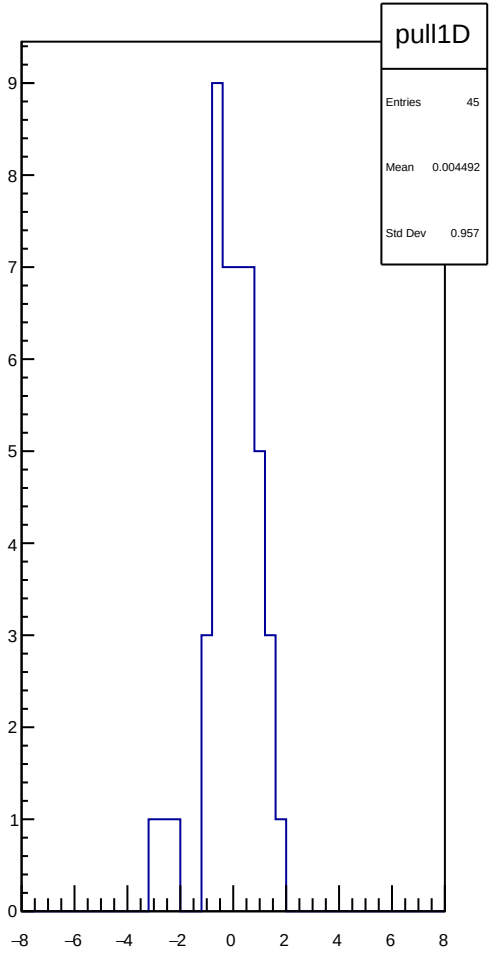

pull1D
Entries 45
Mean 0.004492
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

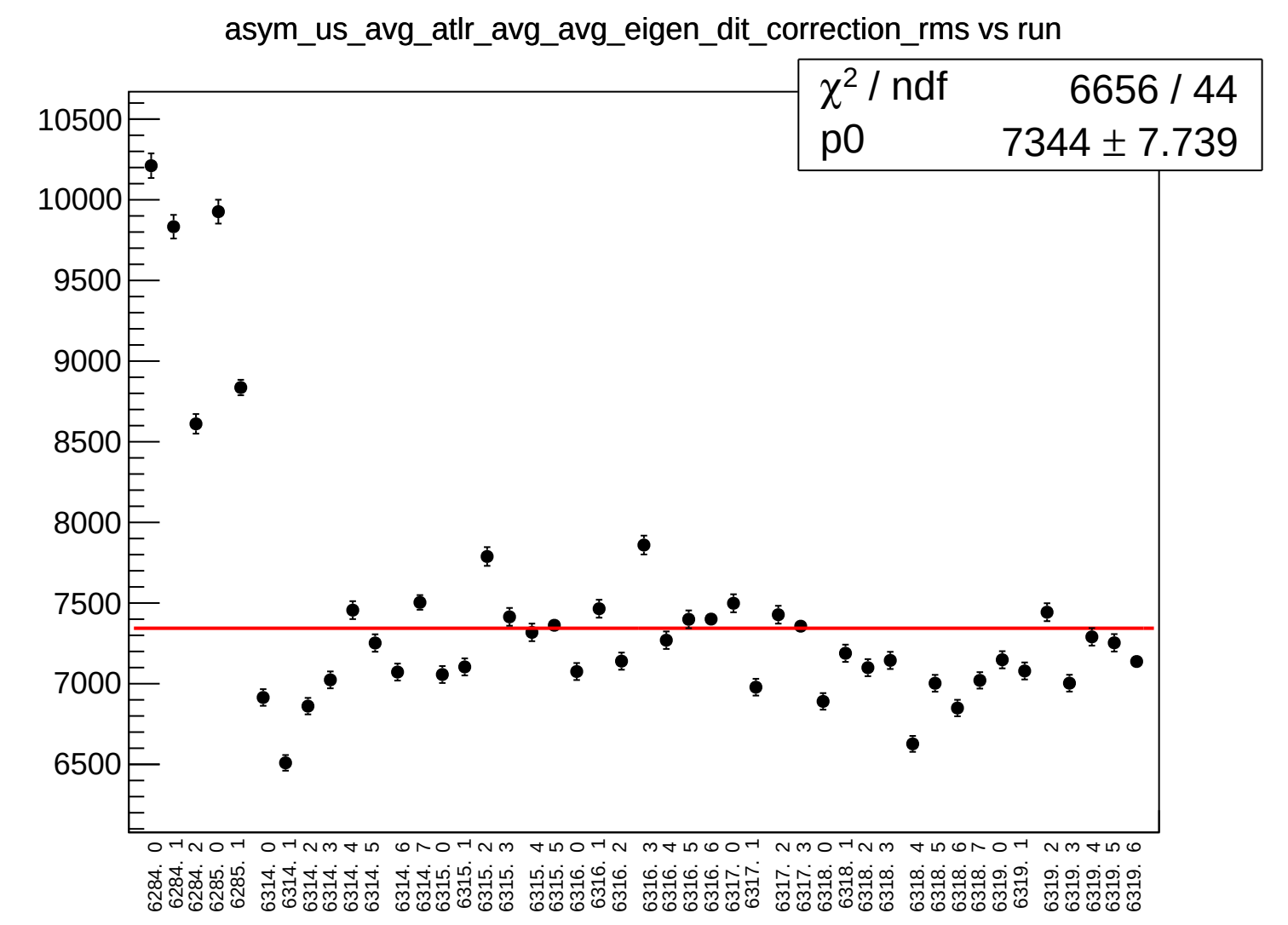

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 6656 / 44
p0 7344 ± 7.739
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

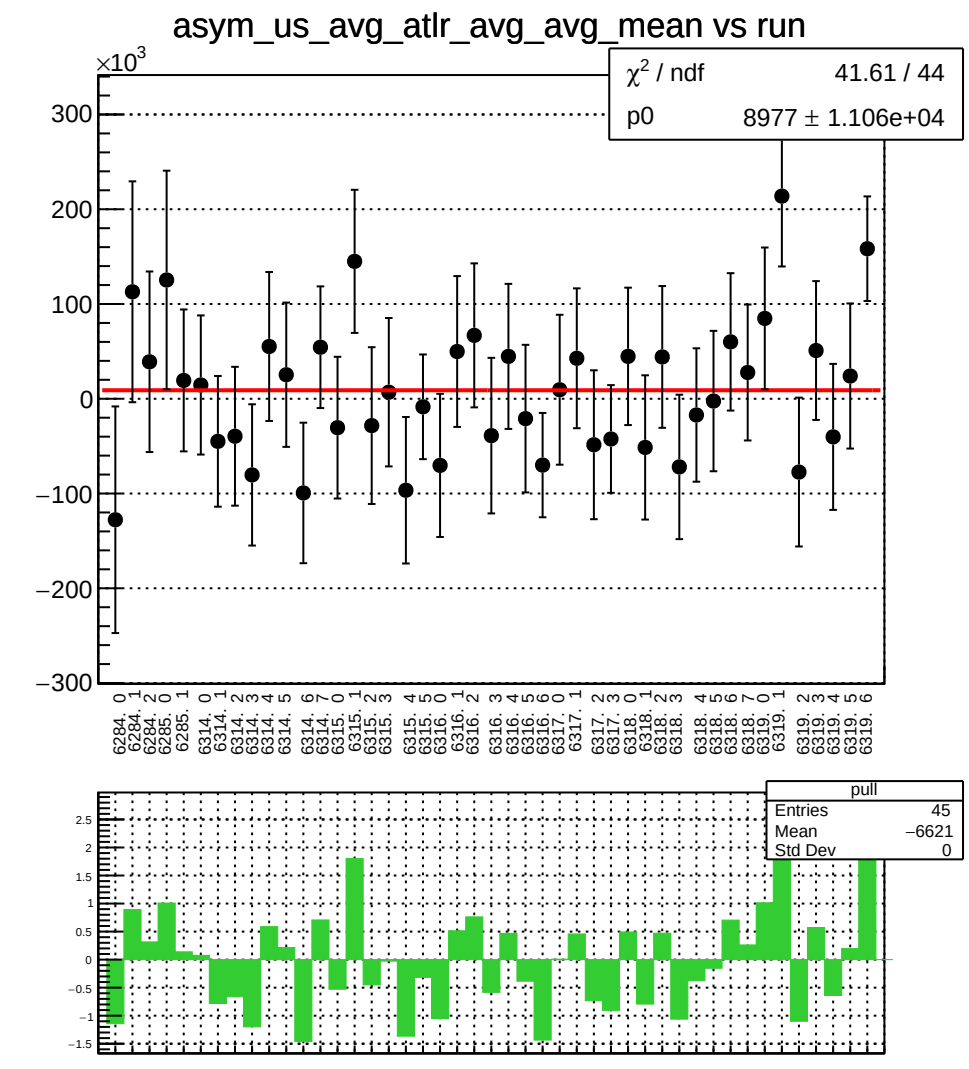

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 27.75 / 44
p0 −512.4 ± 3003
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1.889e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 5.429e−05
Std Dev 0.7852
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

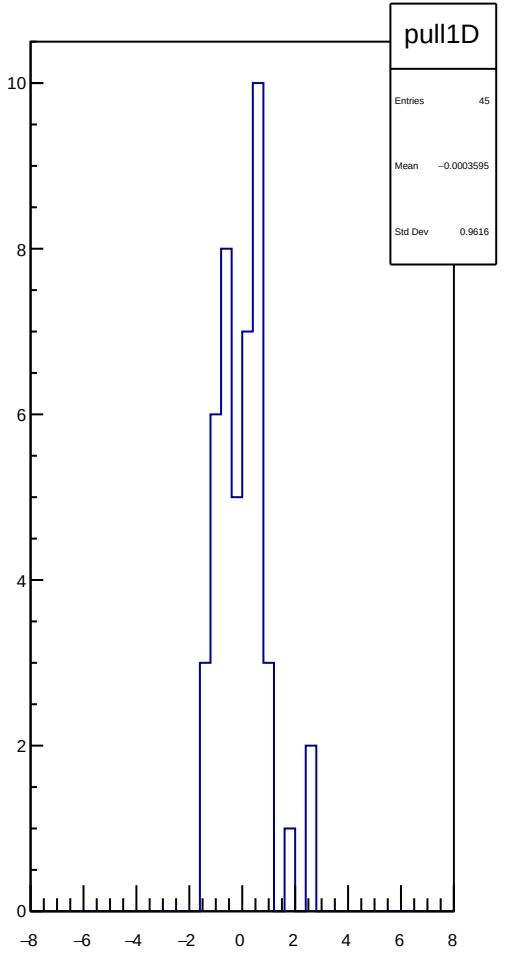

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 932.4 / 44
p0 2021 ± 2.123
2350
2300
2250
2200
2150
2100
2050
2000
1950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

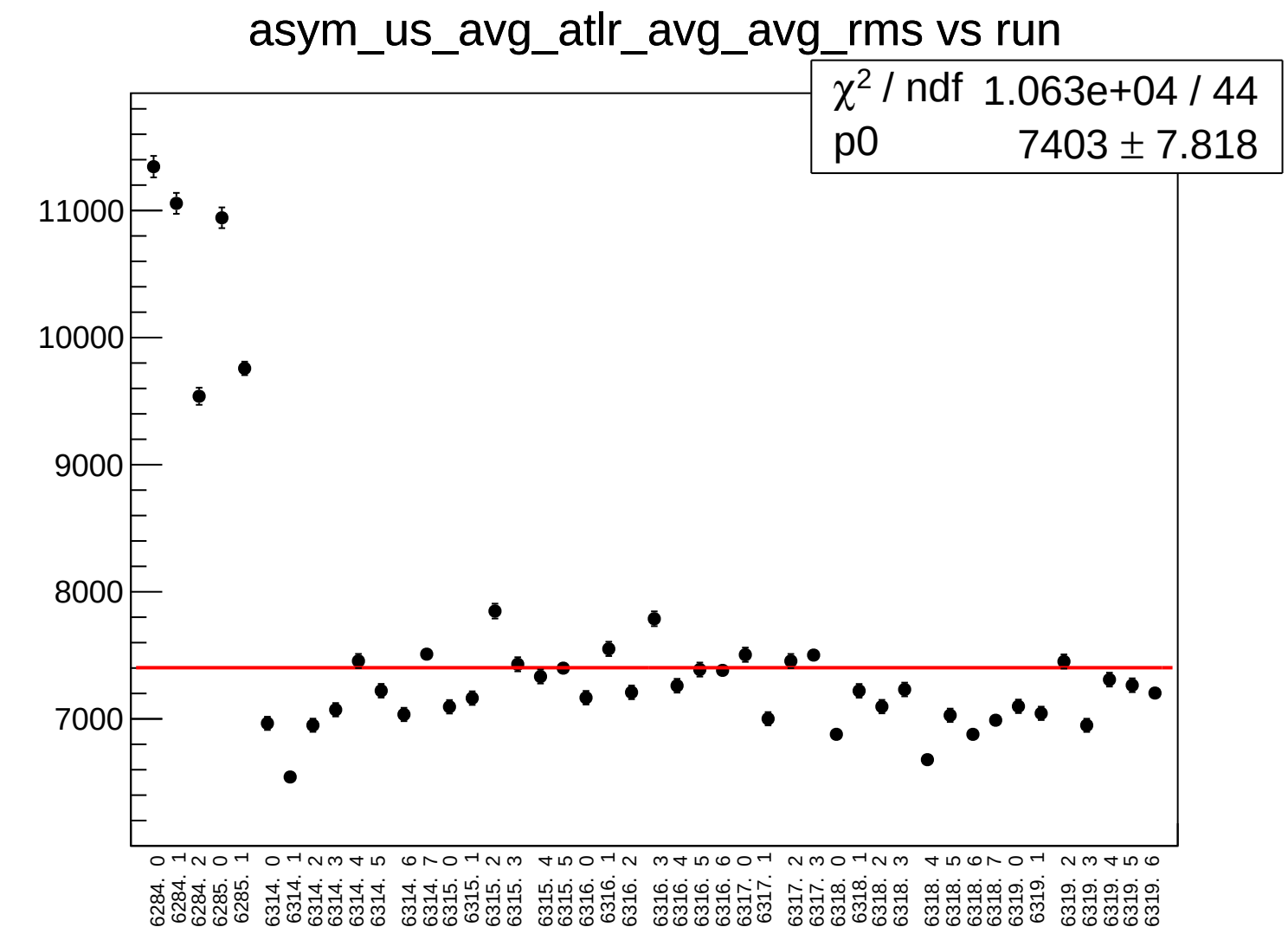

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 44
p0 −1.024e+04 ± 1.094e+04
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −550.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean 0.004492
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6656 / 44
p0 7344 ± 7.739
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 41.61 / 44
p0 8977 ± 1.106e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6621
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.0003595
Std Dev 0.9616
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.063e+04 / 44
p0 7403 ± 7.818
11000
10000
9000
8000
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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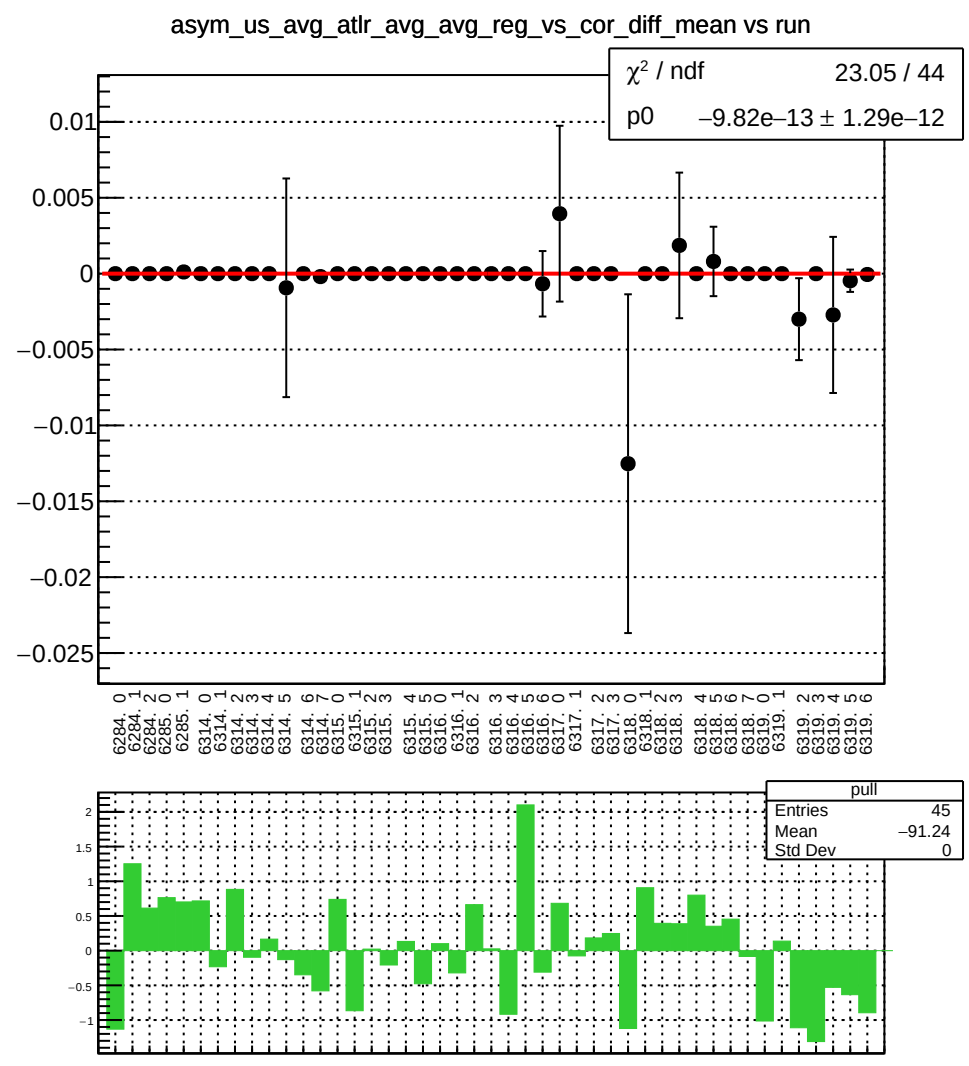
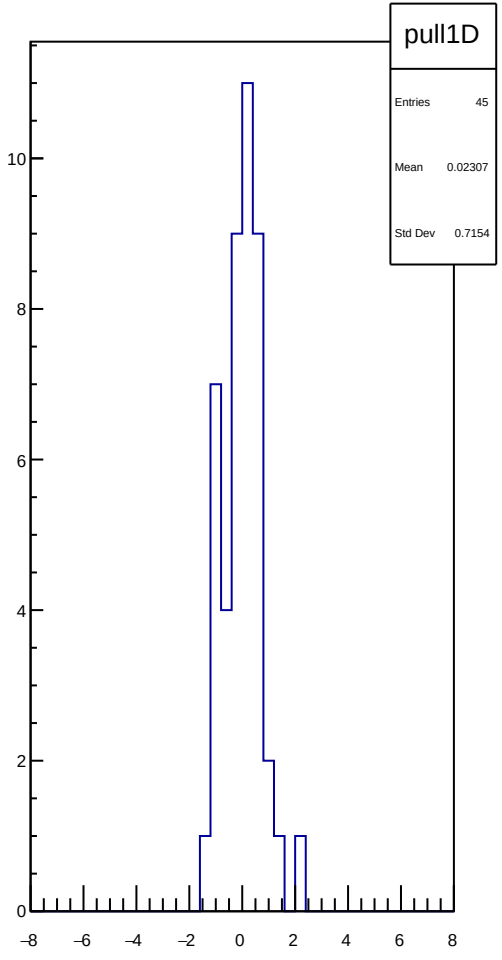
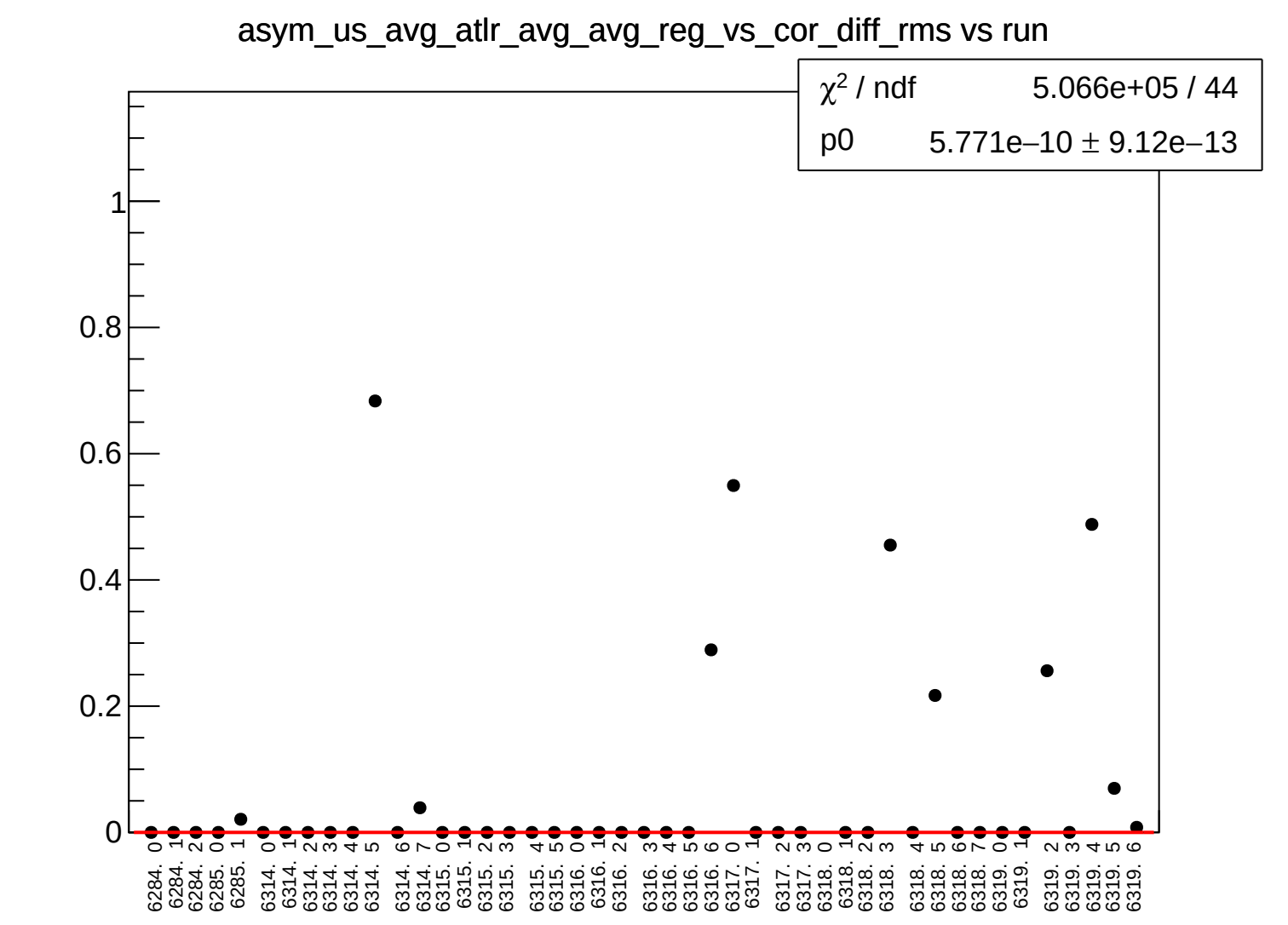
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.05 / 44
p0 −9.82e−13 ± 1.29e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −91.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean 0.02307
Std Dev 0.7154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.066e+05 / 44
p0 5.771e−10 ± 9.12e−13
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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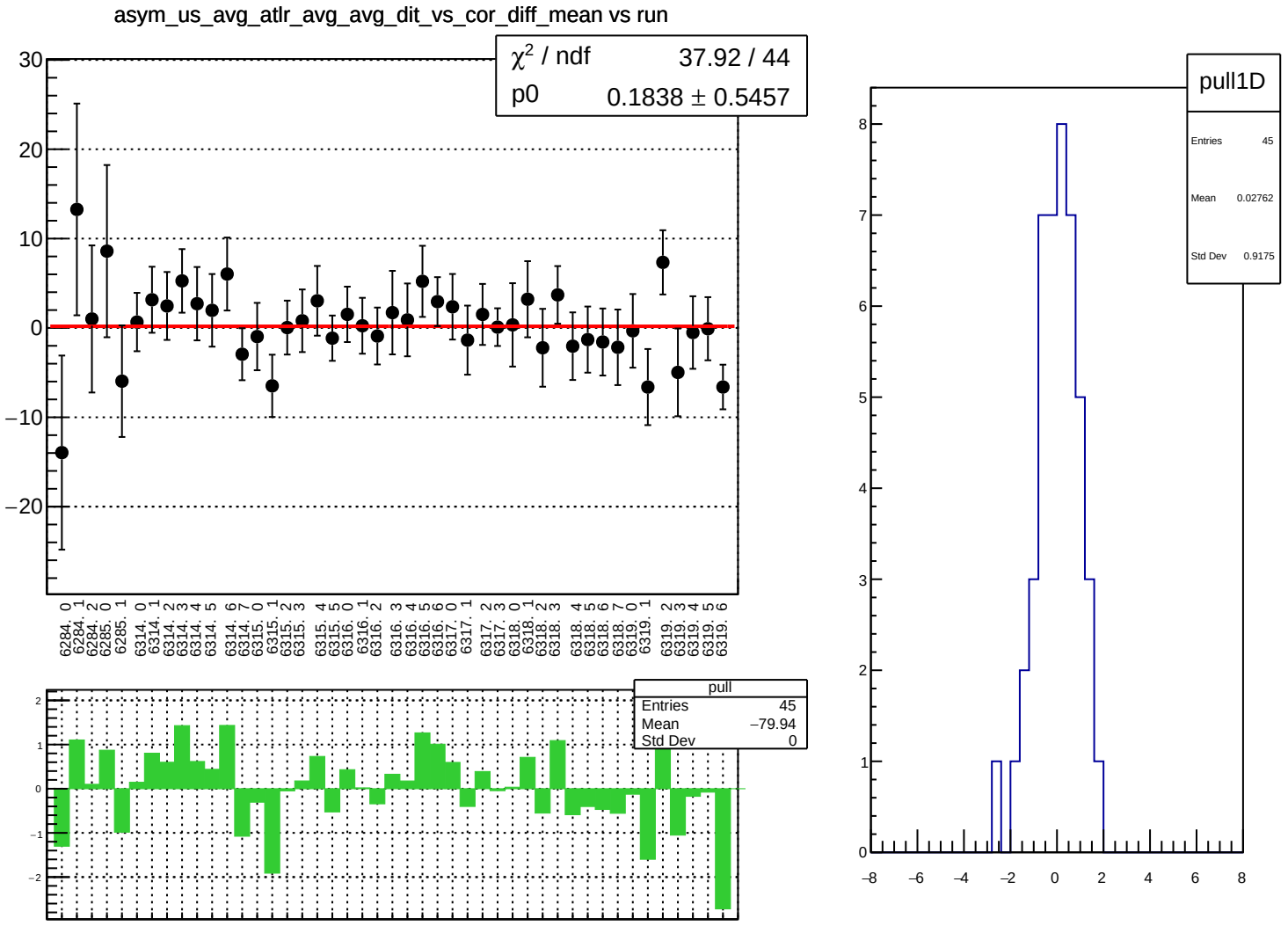
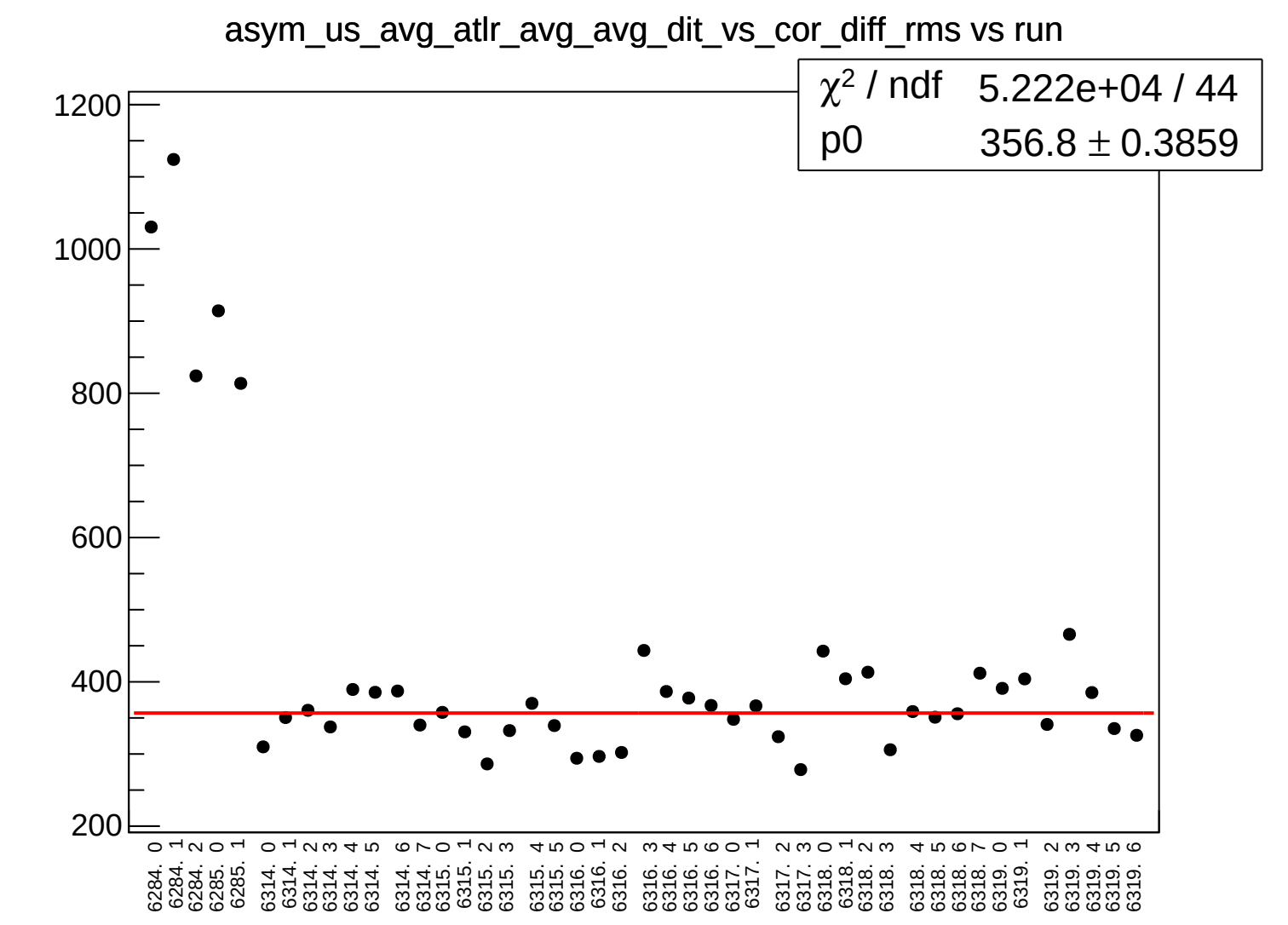
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.92 / 44
p0 0.1838 ± 0.5457
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02762
Std Dev 0.9175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.222e+04 / 44
p0 356.8 ± 0.3859
1200
1000
800
600
400
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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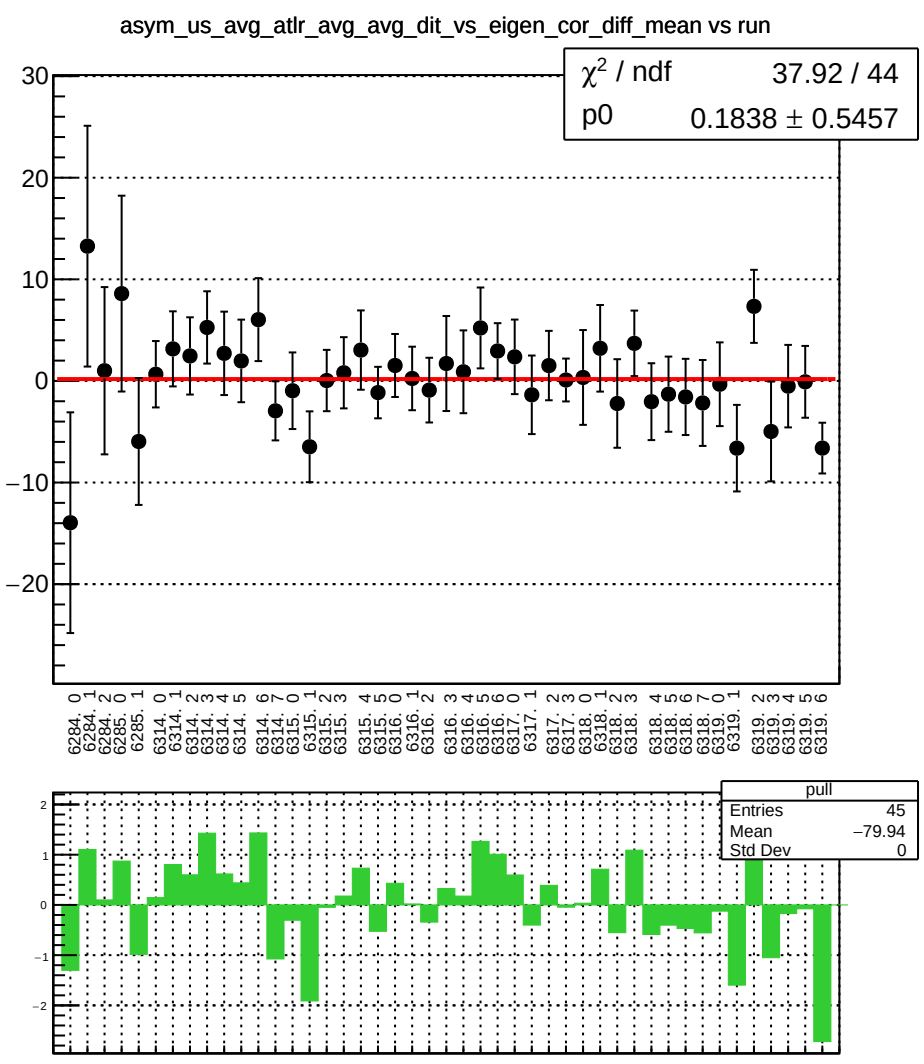
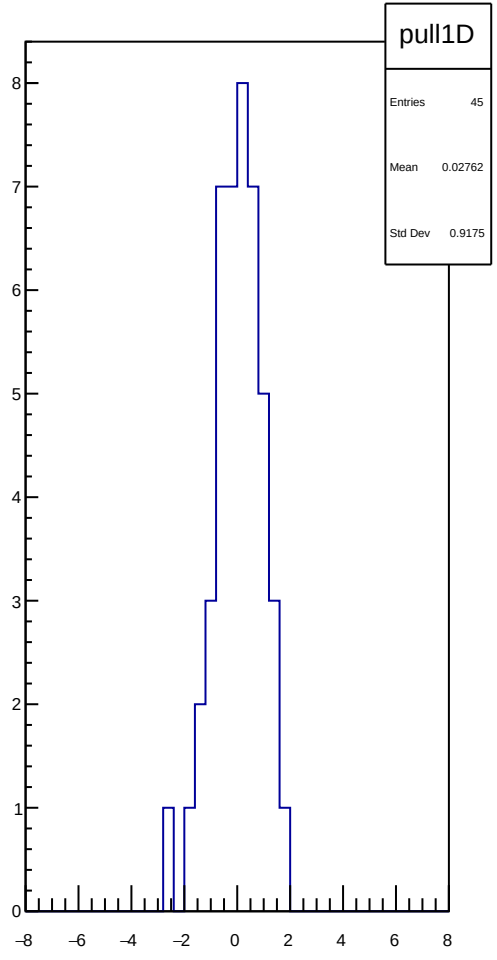
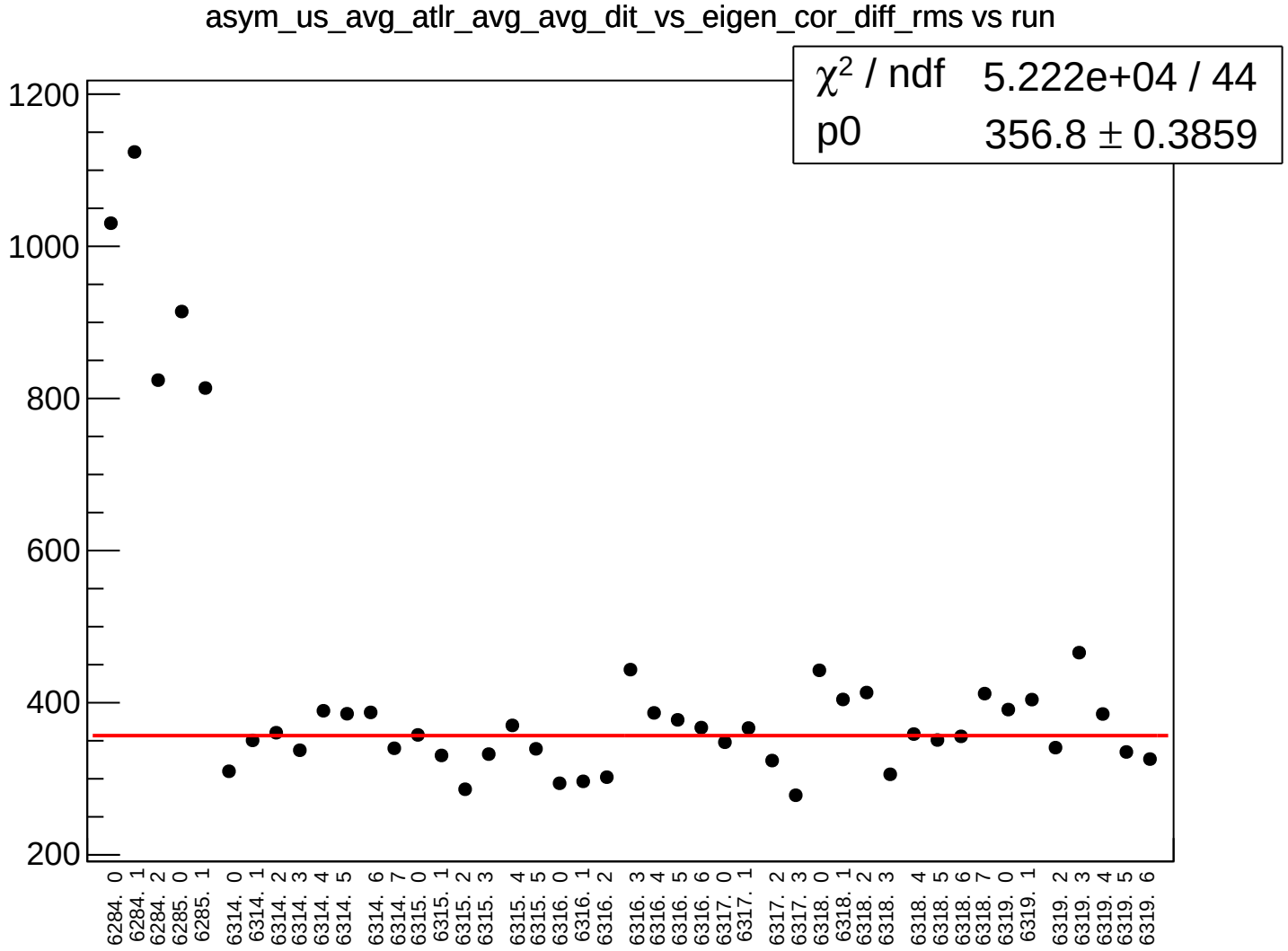
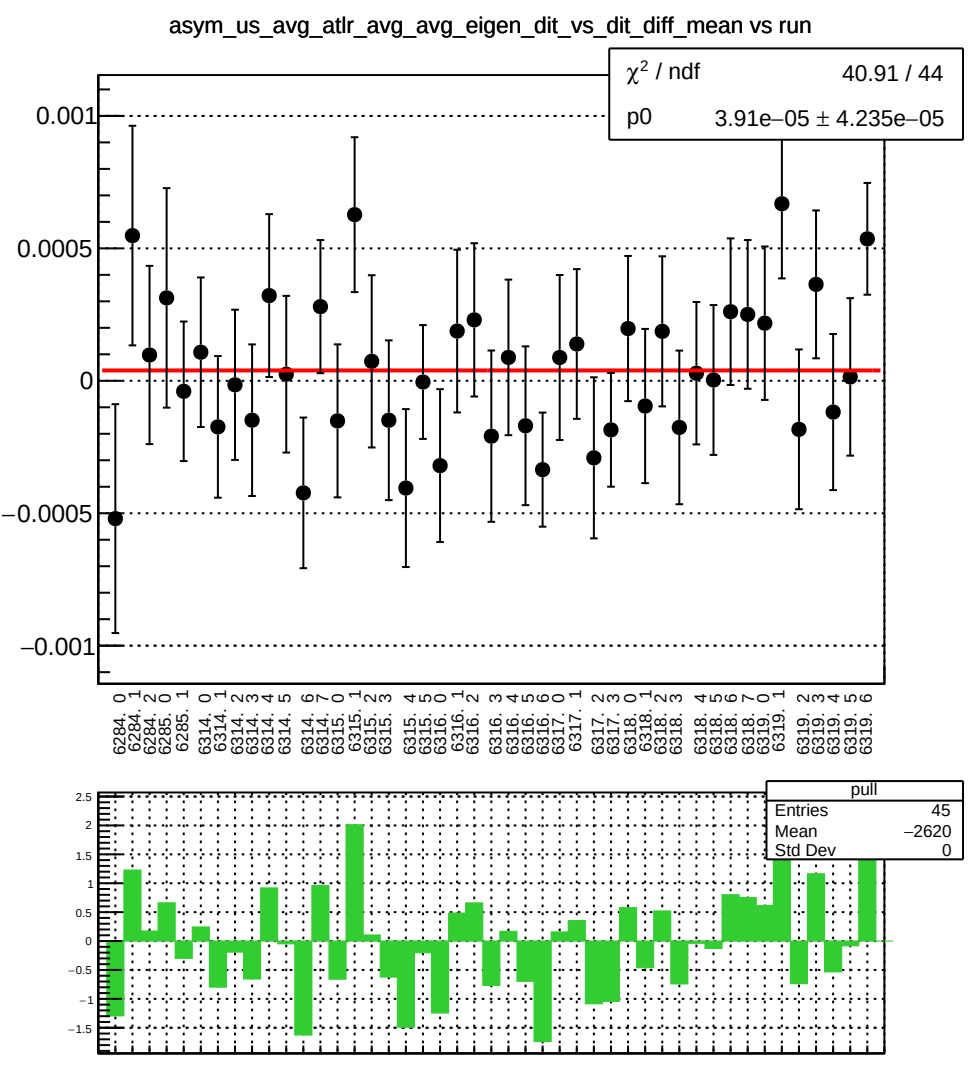
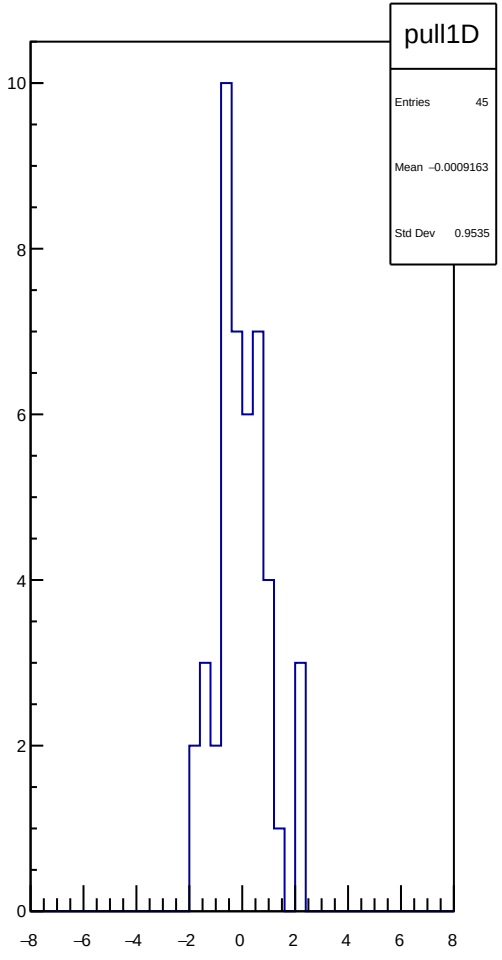
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

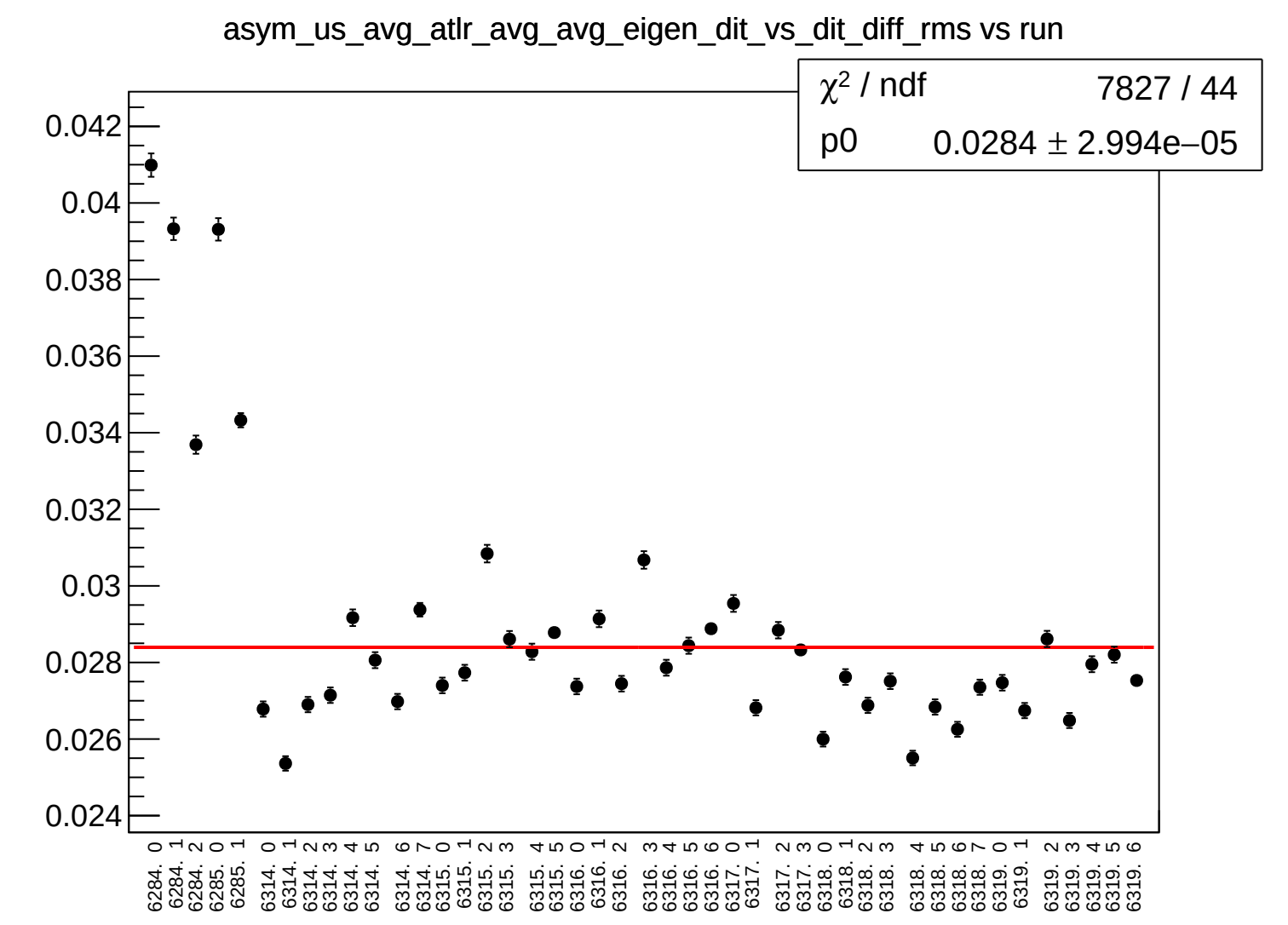

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.92 / 44
p0 0.1838 ± 0.5457
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.94
Std Dev 0
2
1
0
−1
−2

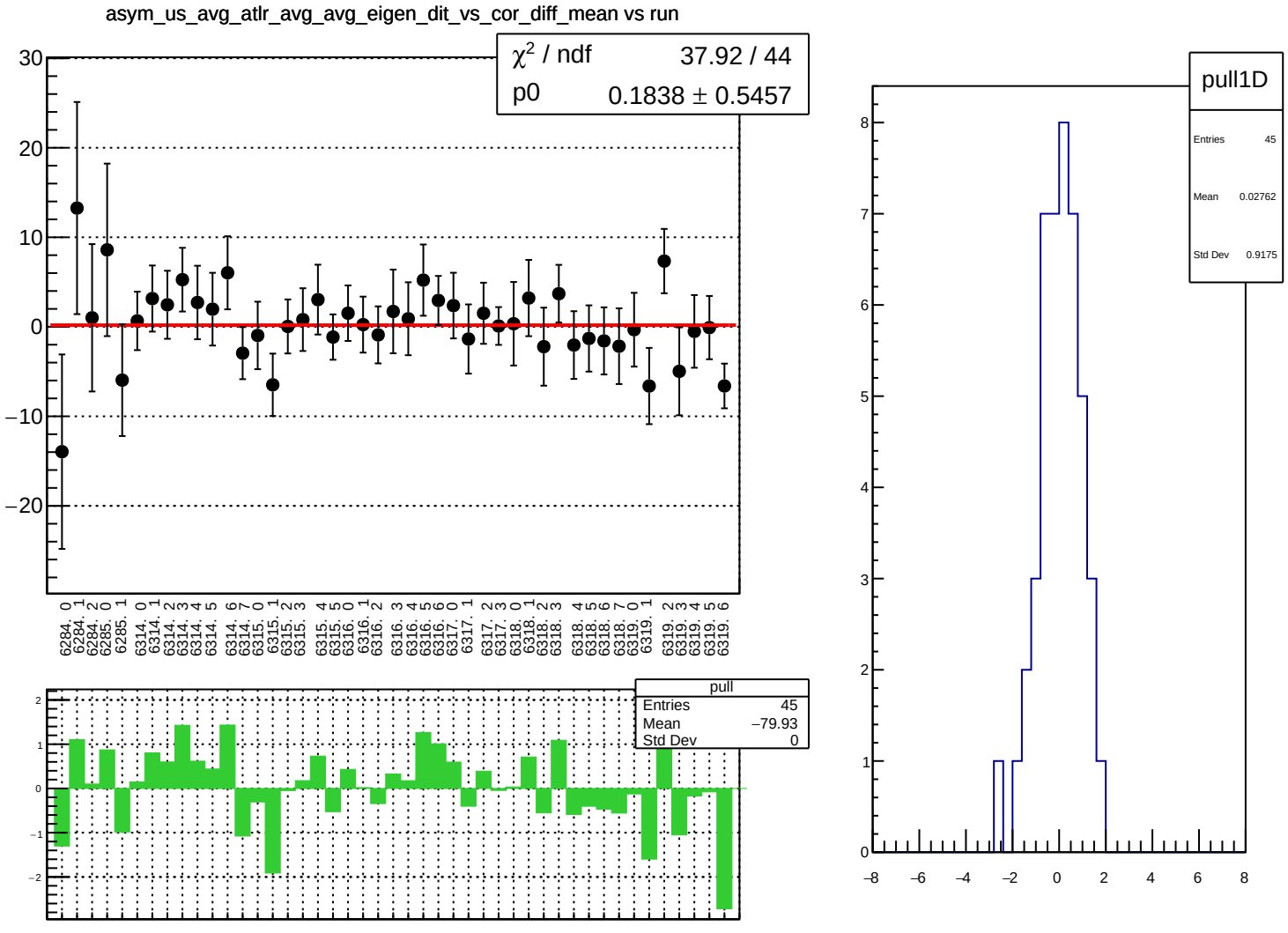

pull1D
Entries 45
Mean 0.02762
Std Dev 0.9175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.222e+04 / 44
p0 356.8 ± 0.3859
1200
1000
800
600
400
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.91 / 44
p0 3.91e−05 ± 4.235e−05
0.001
0.0005
0
−0.0005
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2620
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.0009163
Std Dev 0.9535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7827 / 44
p0 0.0284 ± 2.994e−05
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.92 / 44
p0 0.1838 ± 0.5457
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 1
6316. 2
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6316. 6
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6317. 1
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6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02762
Std Dev 0.9175
8
7
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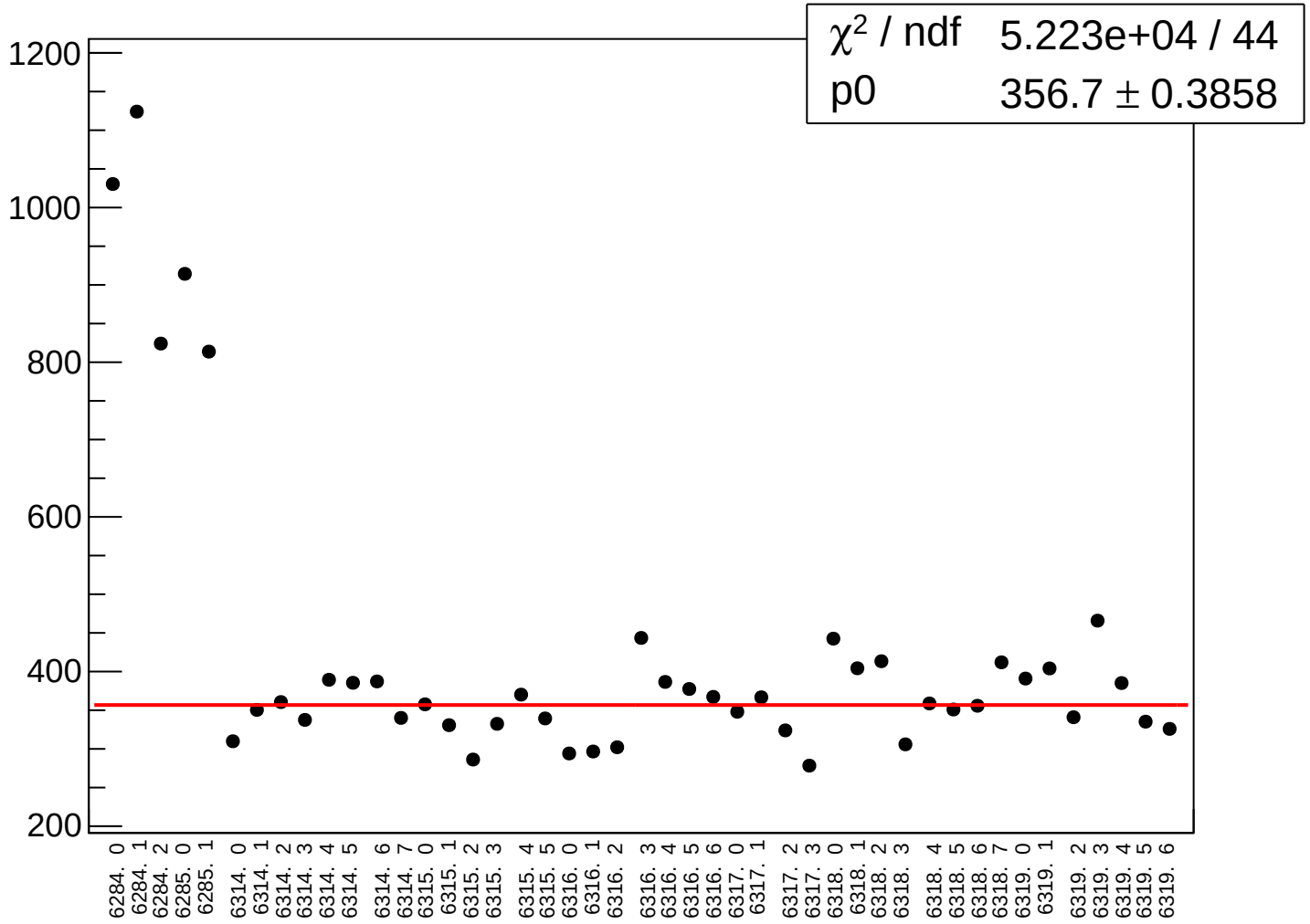
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.223e+04 / 44
p0 356.7 ± 0.3858
1200
1000
800
600
400
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
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6318. 4
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6318. 7
6319. 0
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6319. 2
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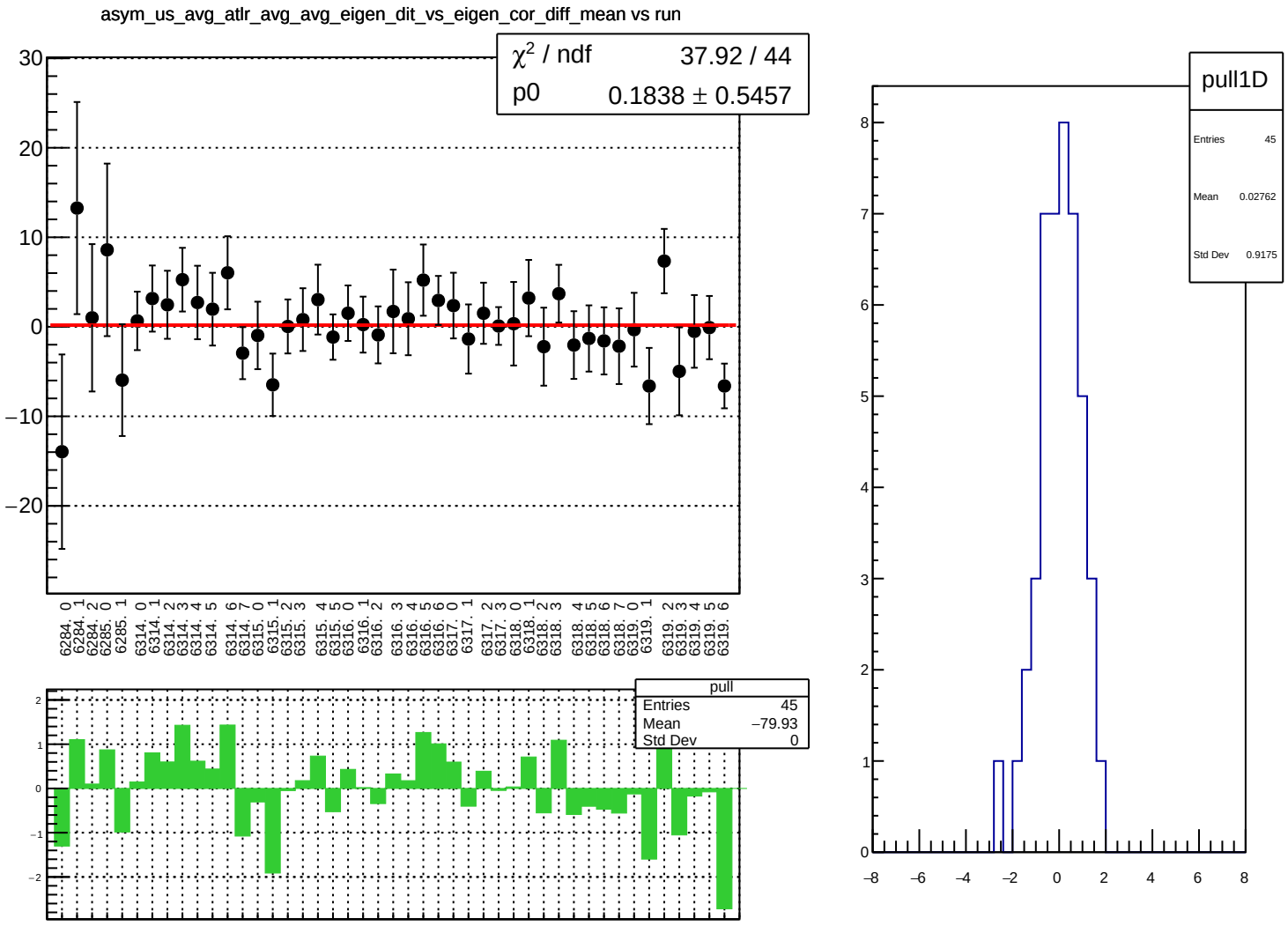
6319. 6


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.92 / 44
p0 0.1838 ± 0.5457
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
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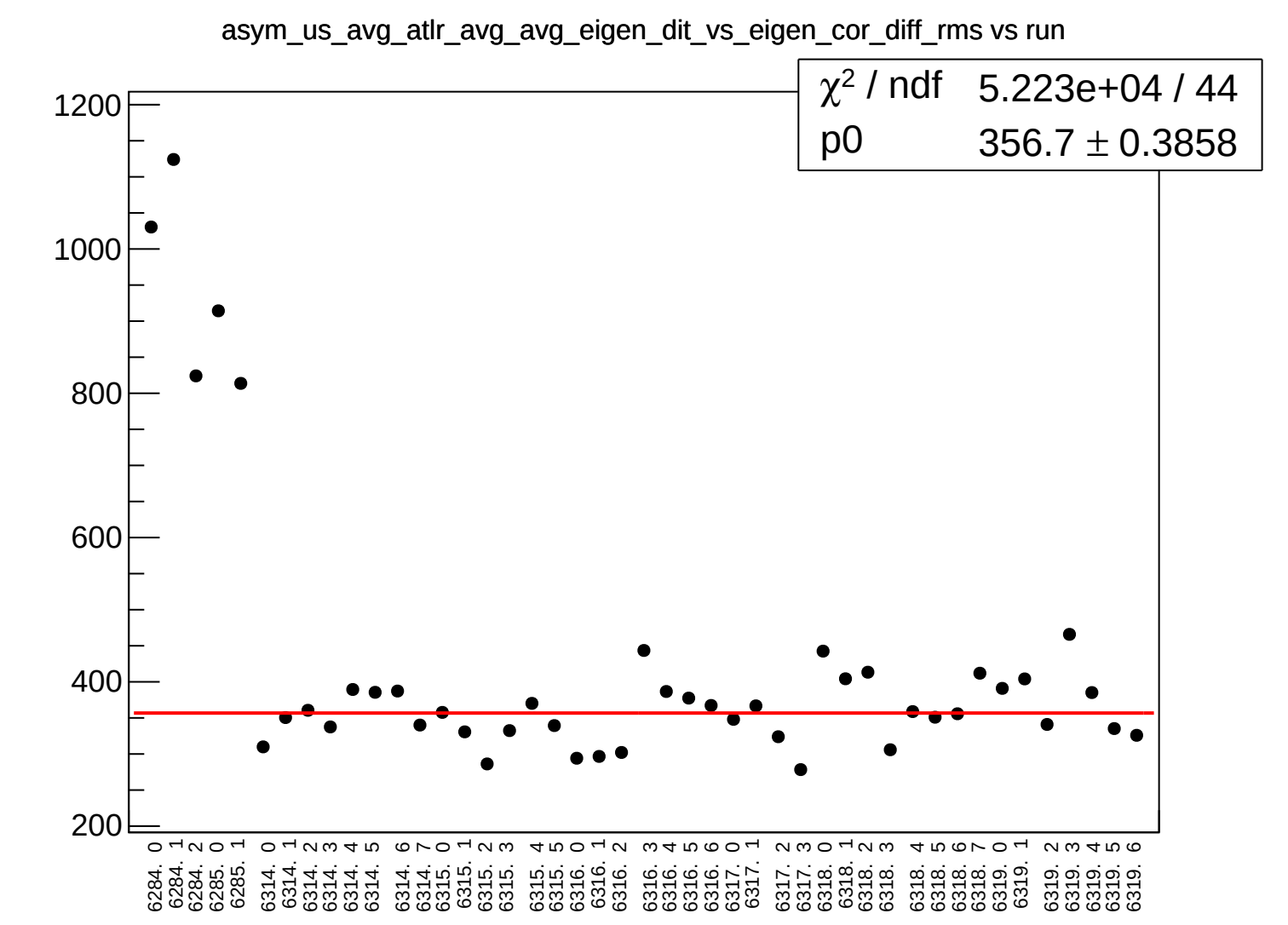
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02762
Std Dev 0.9175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.223e+04 / 44
p0 356.7 ± 0.3858
1200
1000
800
600
400
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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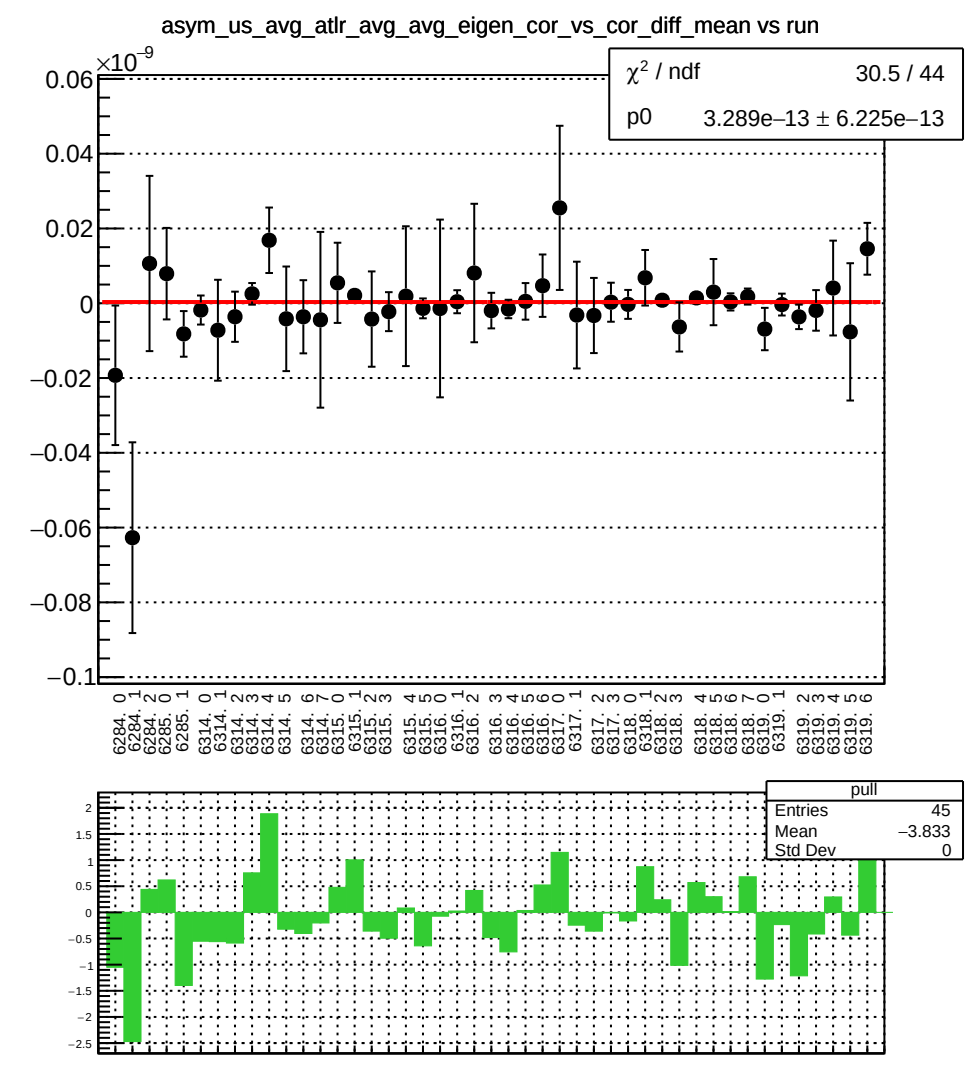
6319. 5
6319. 6


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 30.5 / 44
p0 3.289e−13 ± 6.225e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
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6318. 3
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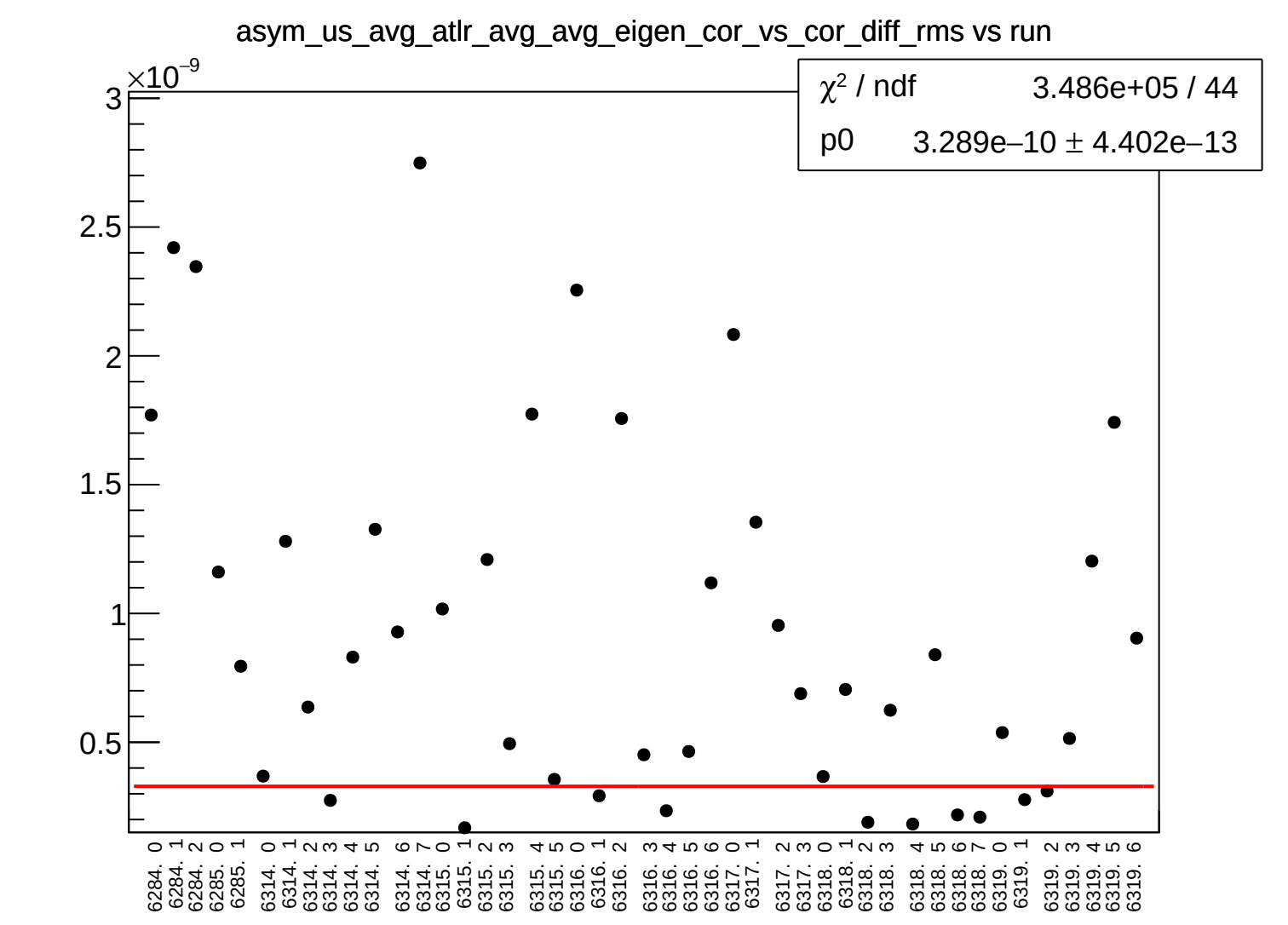
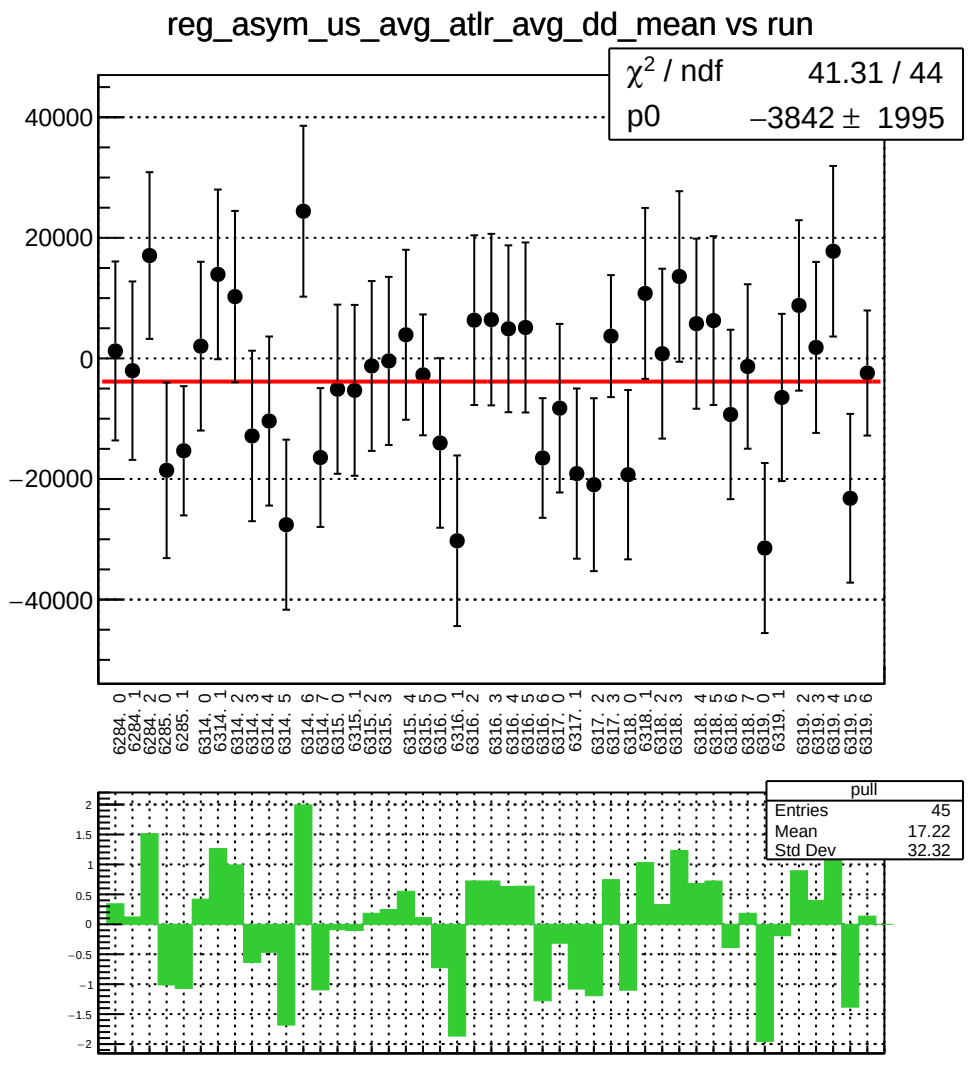
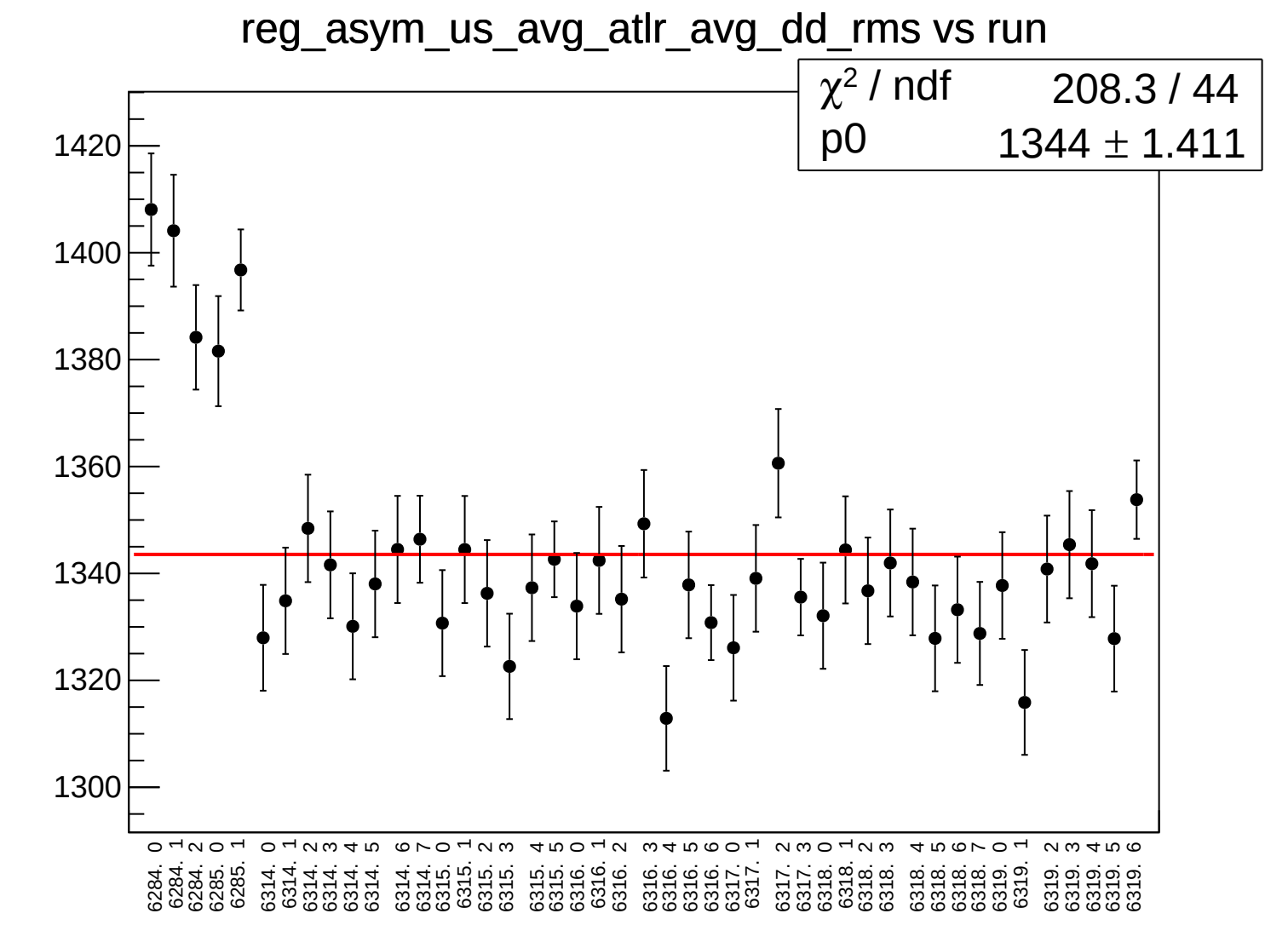
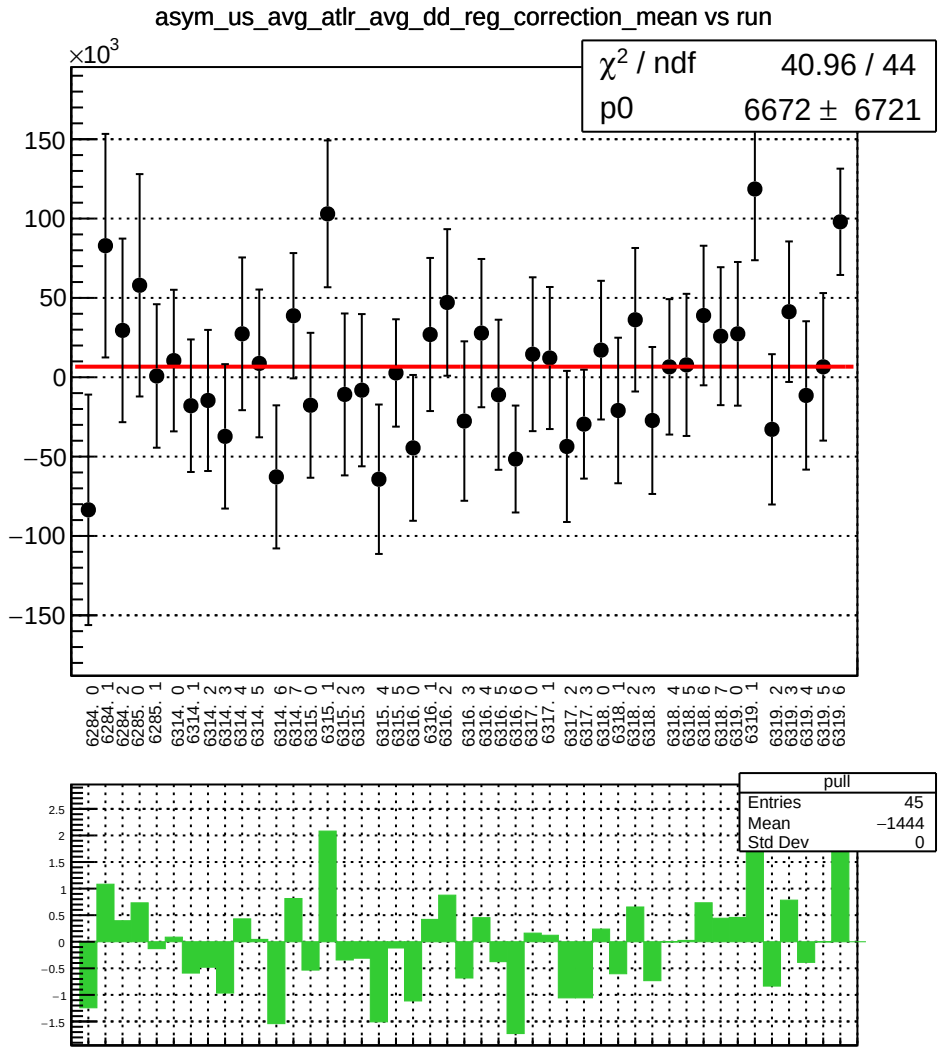
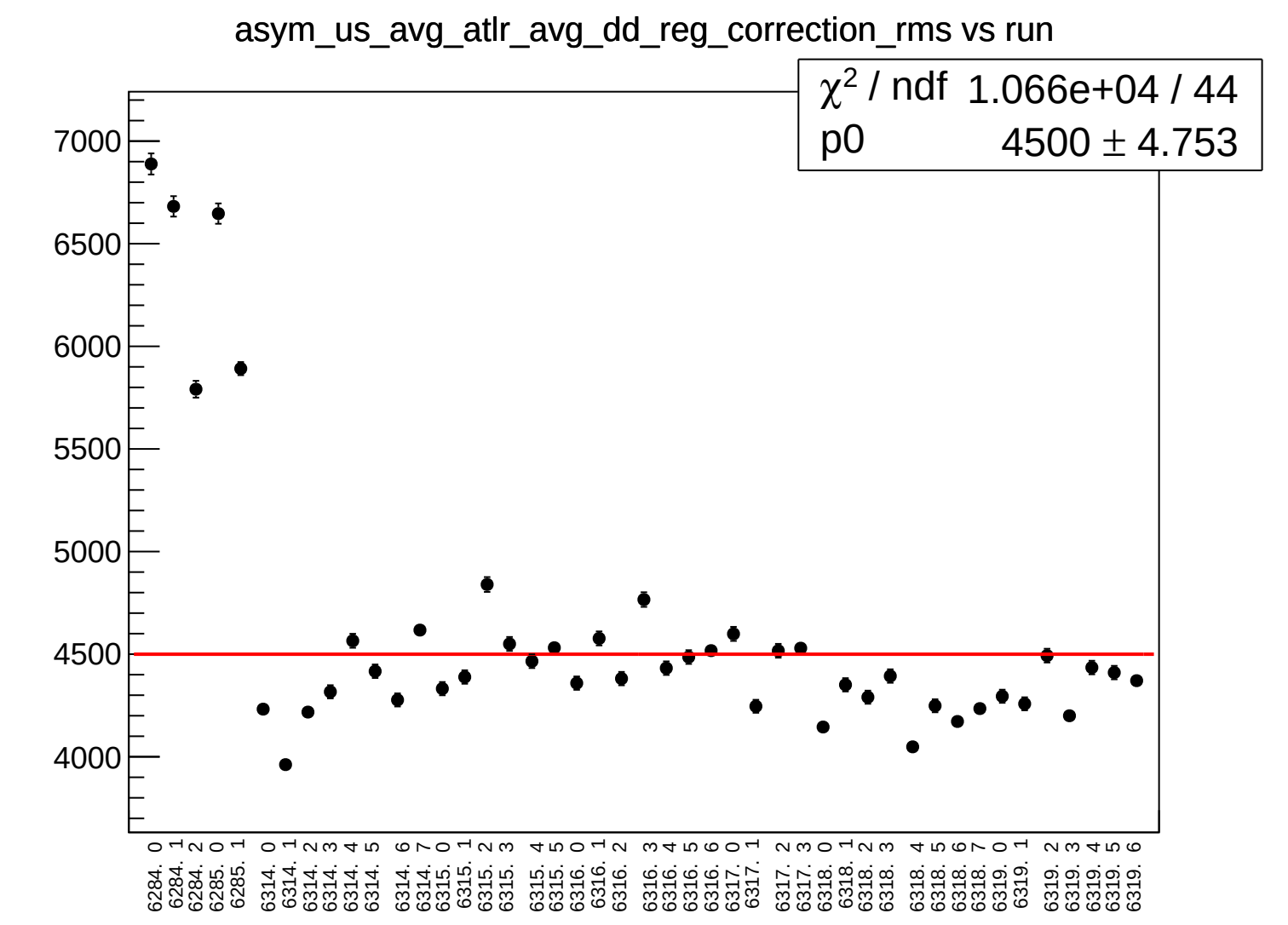
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3.833
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.07241
Std Dev 0.8201
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

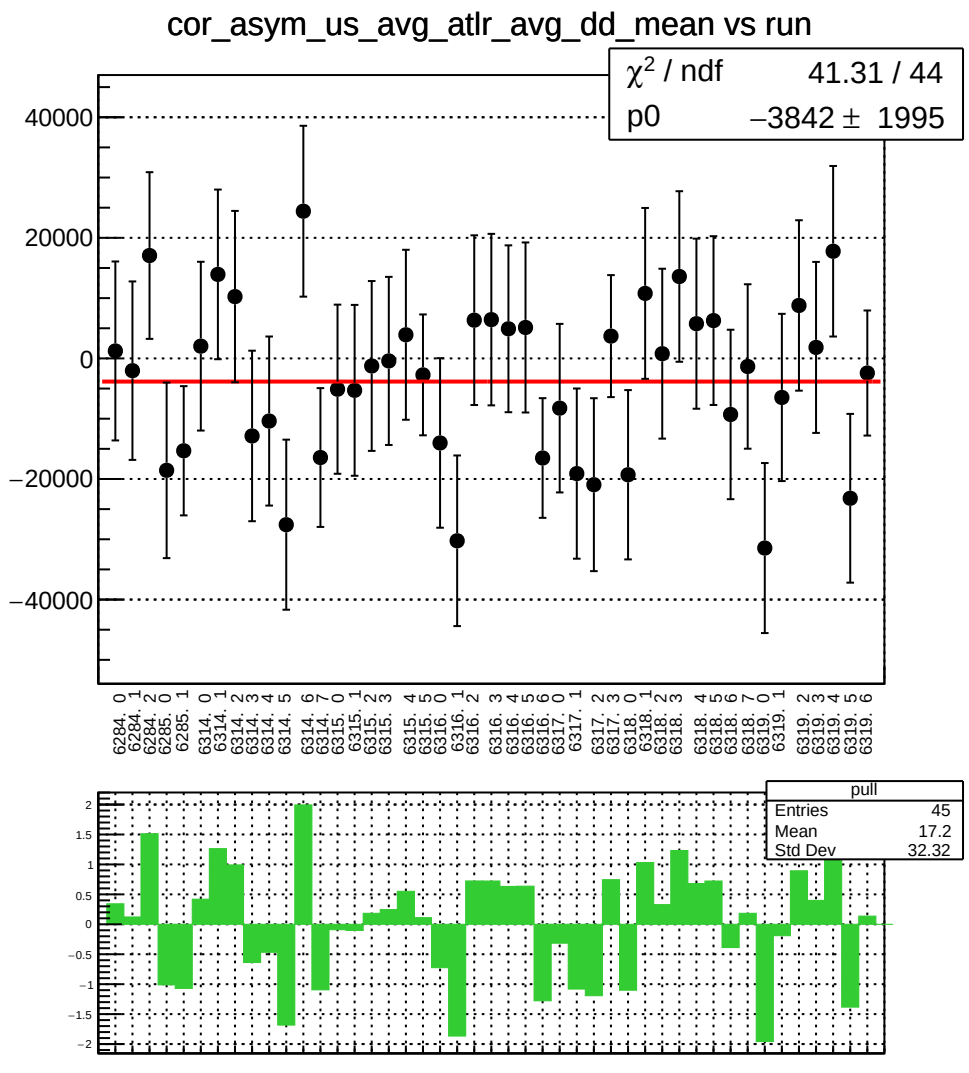

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.486e+05 / 44
p0 3.289e−10 ± 4.402e−13
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

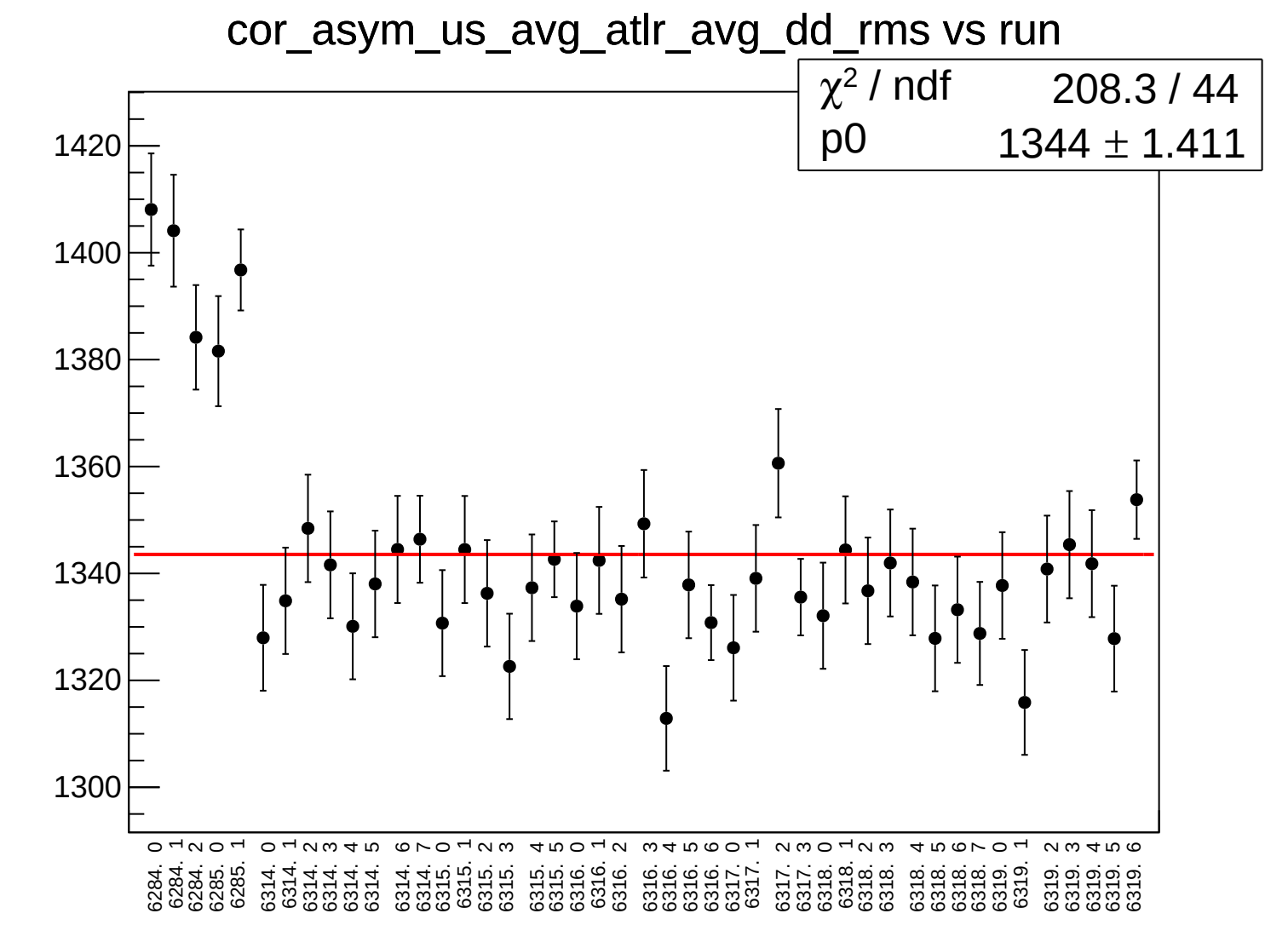

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 41.31 / 44
p0 −3842 ± 1995
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.22
Std Dev 32.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01556
Std Dev 0.9579
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

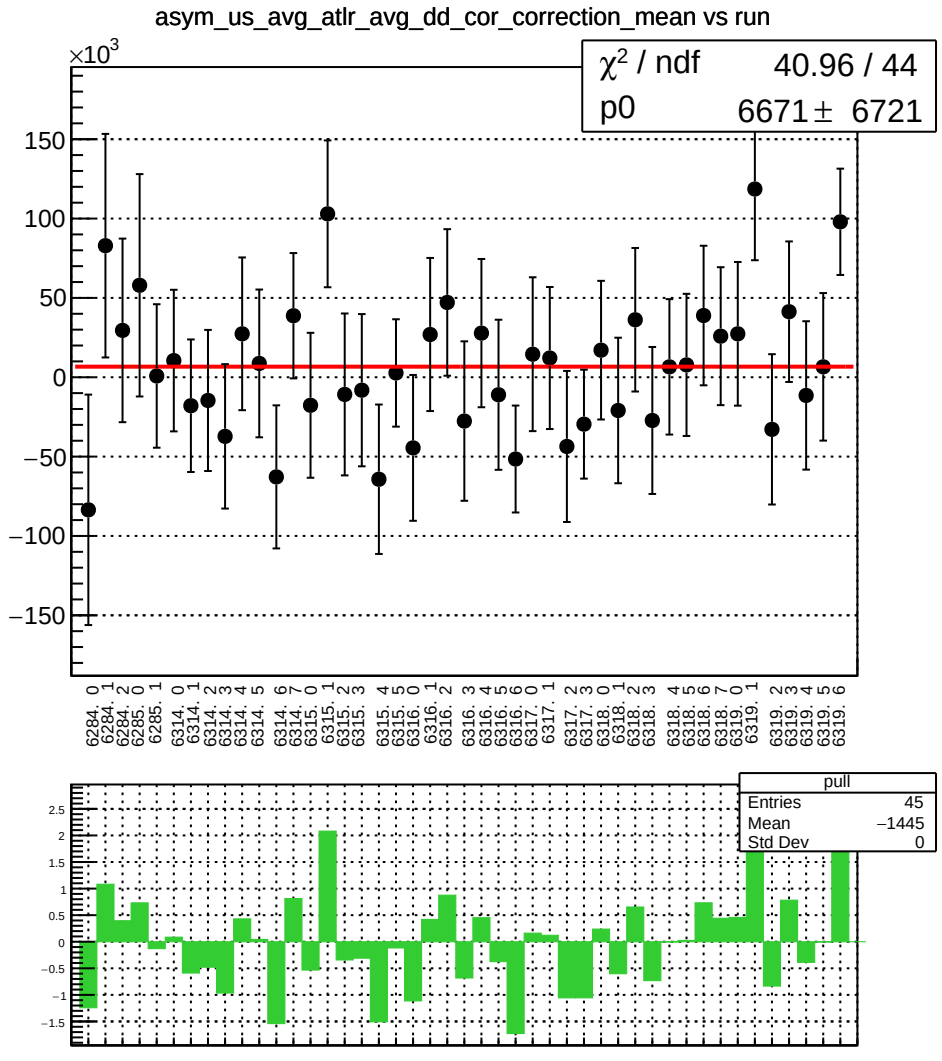

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 208.3 / 44
p0 1344 ± 1.411
1420
1400
1380
1360
1340
1320
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

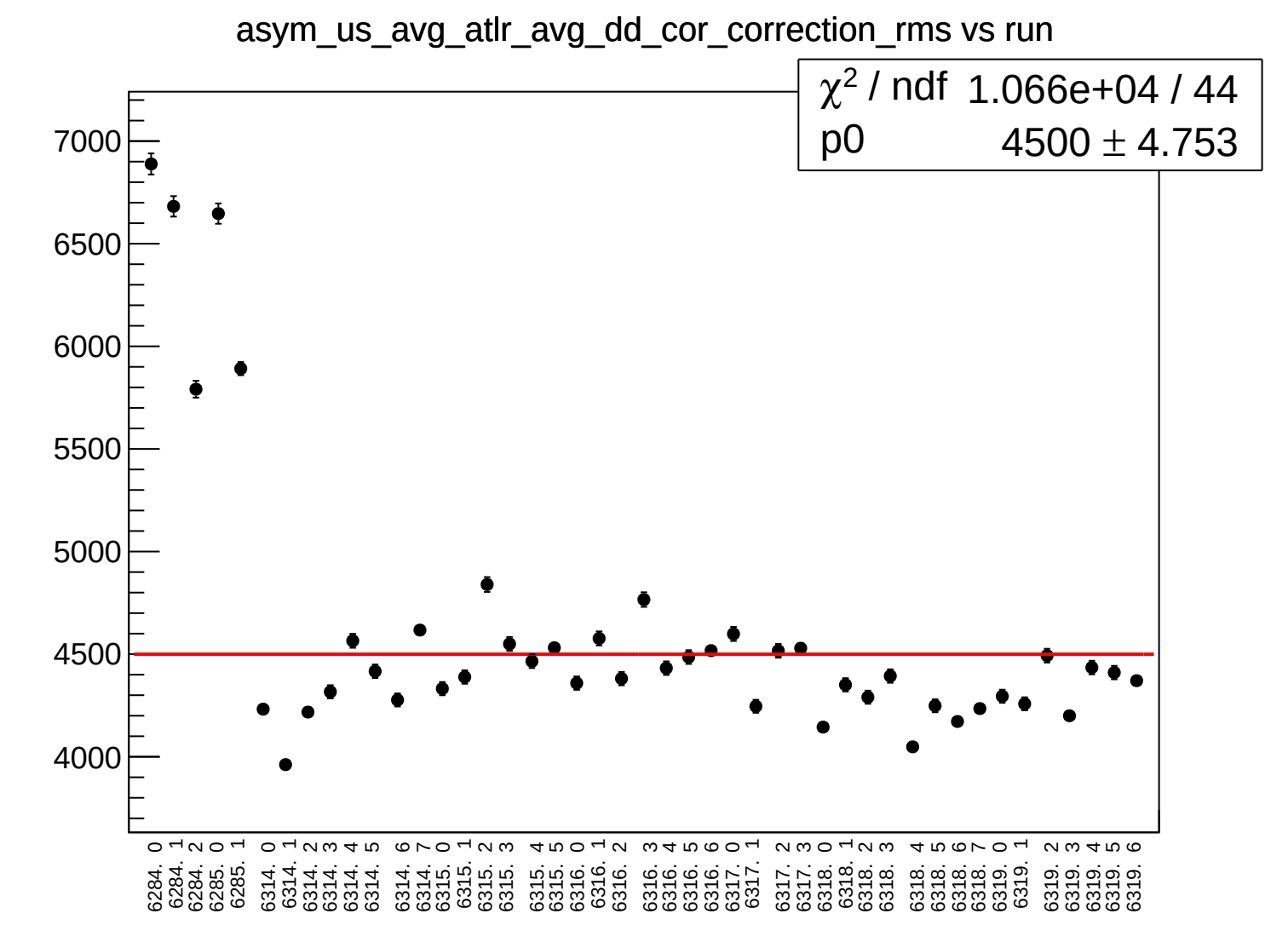

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 6672 ± 6721
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1444
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001734
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.066e+04 / 44
p0 4500 ± 4.753
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 41.31 / 44
p0 −3842 ± 1995
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.2
Std Dev 32.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01556
Std Dev 0.958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 208.3 / 44
p0 1344 ± 1.411
1420
1400
1380
1360
1340
1320
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 6671 ± 6721
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1445
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001733
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 44
p0 4500 ± 4.753
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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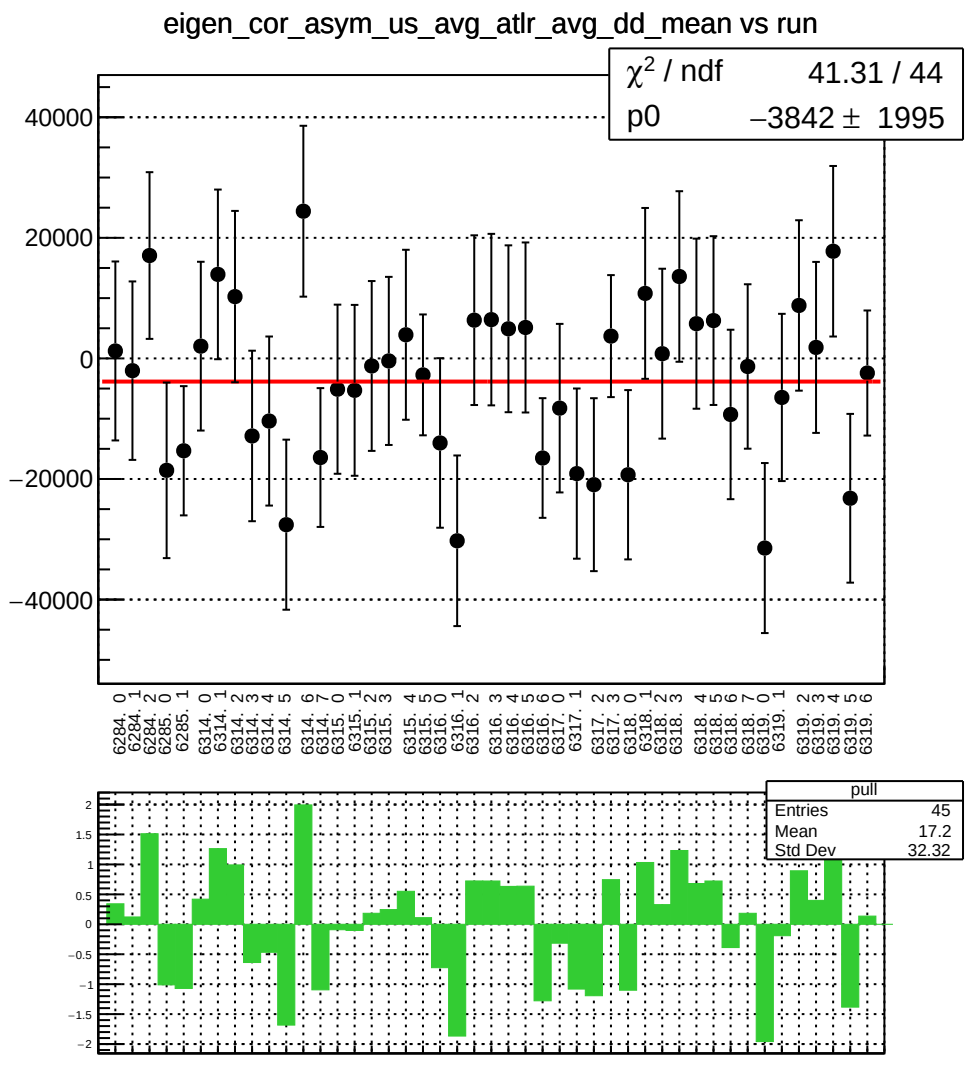
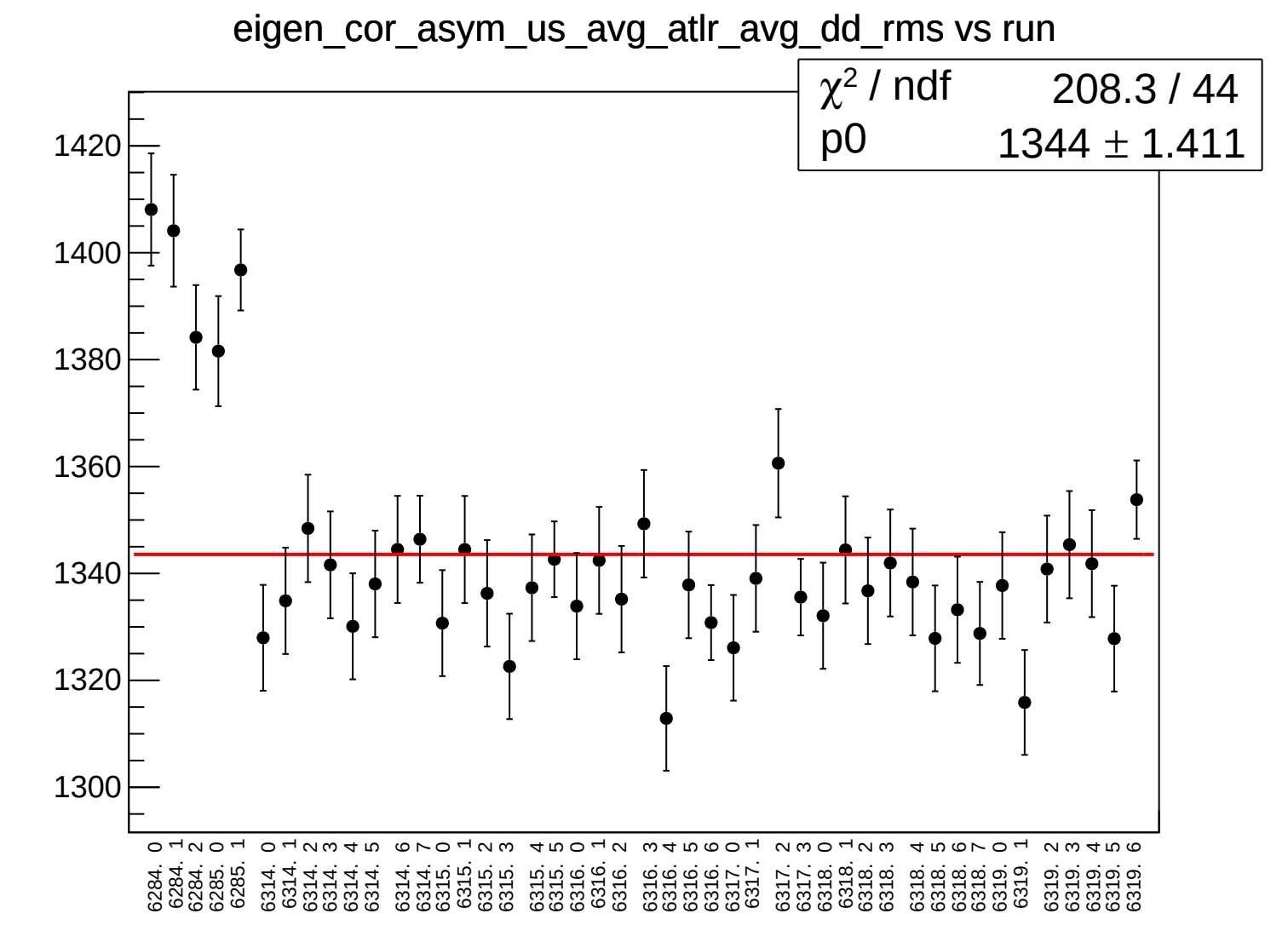
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 41.31 / 44
p0 −3842 ± 1995
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.2
Std Dev 32.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01556
Std Dev 0.958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 208.3 / 44
p0 1344 ± 1.411
1420
1400
1380
1360
1340
1320
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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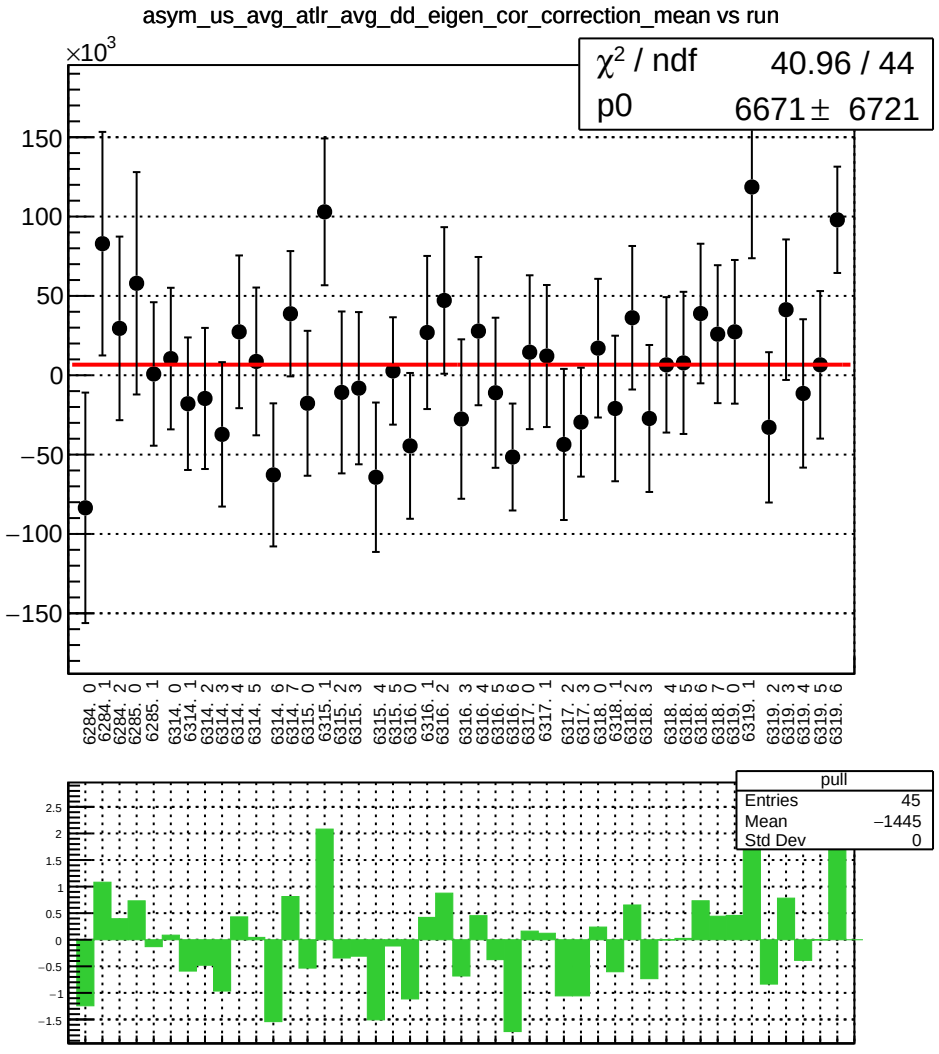
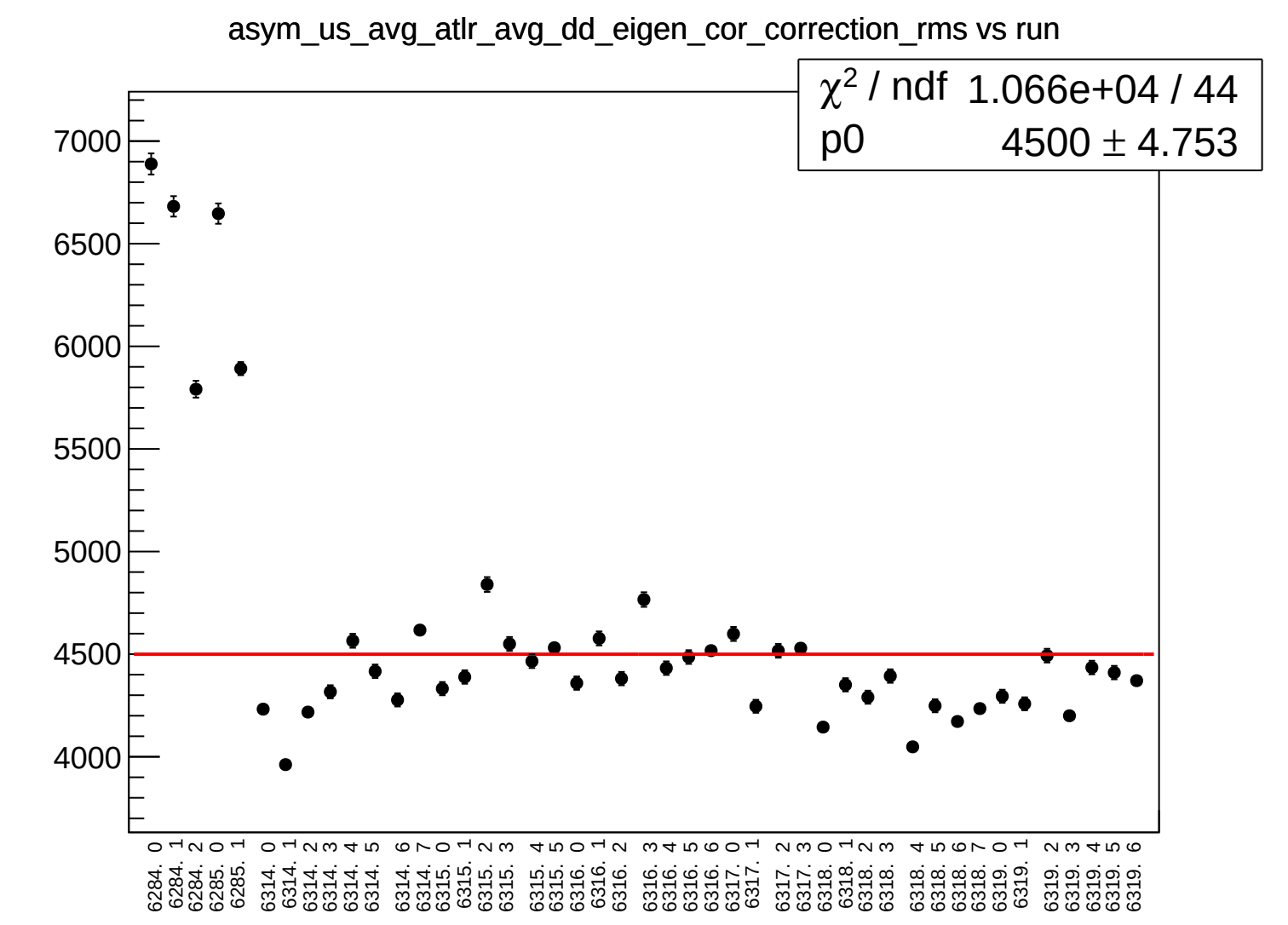
6319. 5
6319. 6


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.96 / 44
p0 6671 ± 6721
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1445
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.001733
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 44
p0 4500 ± 4.753
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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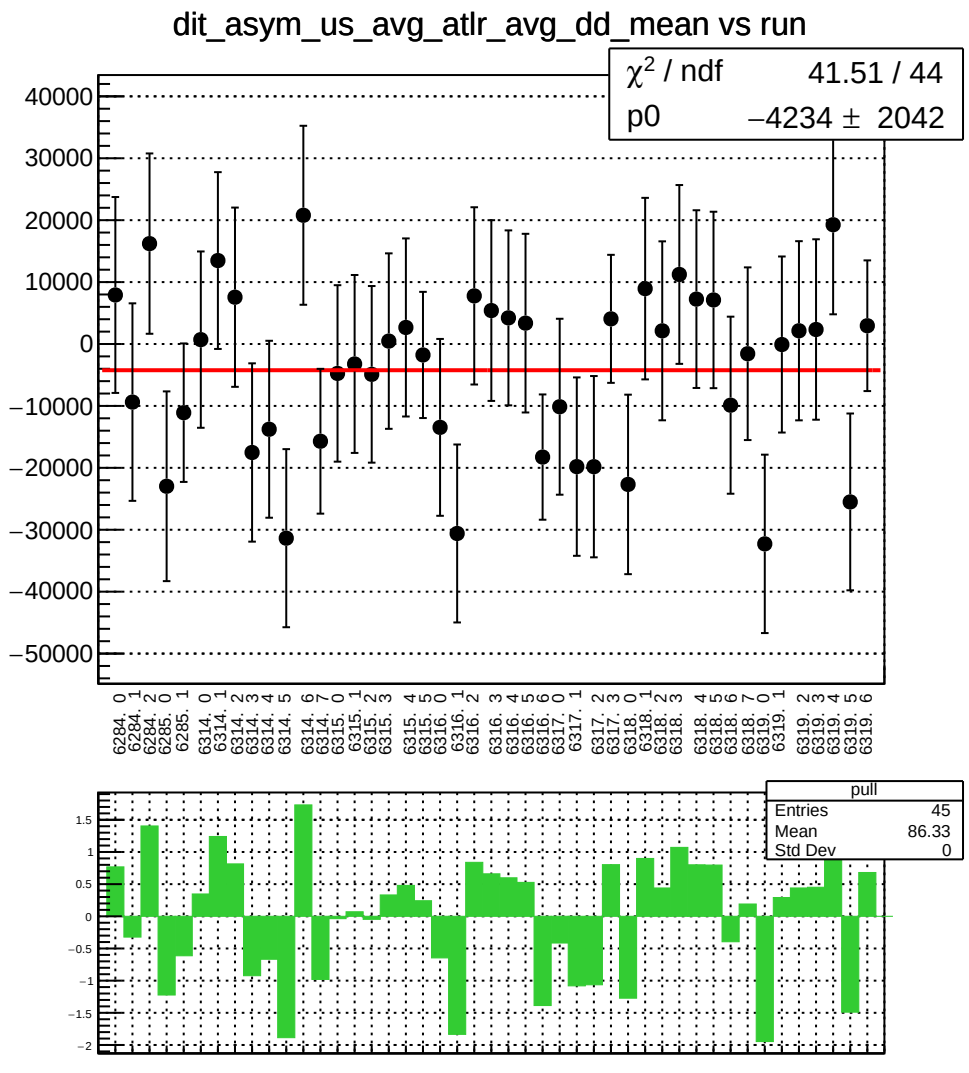
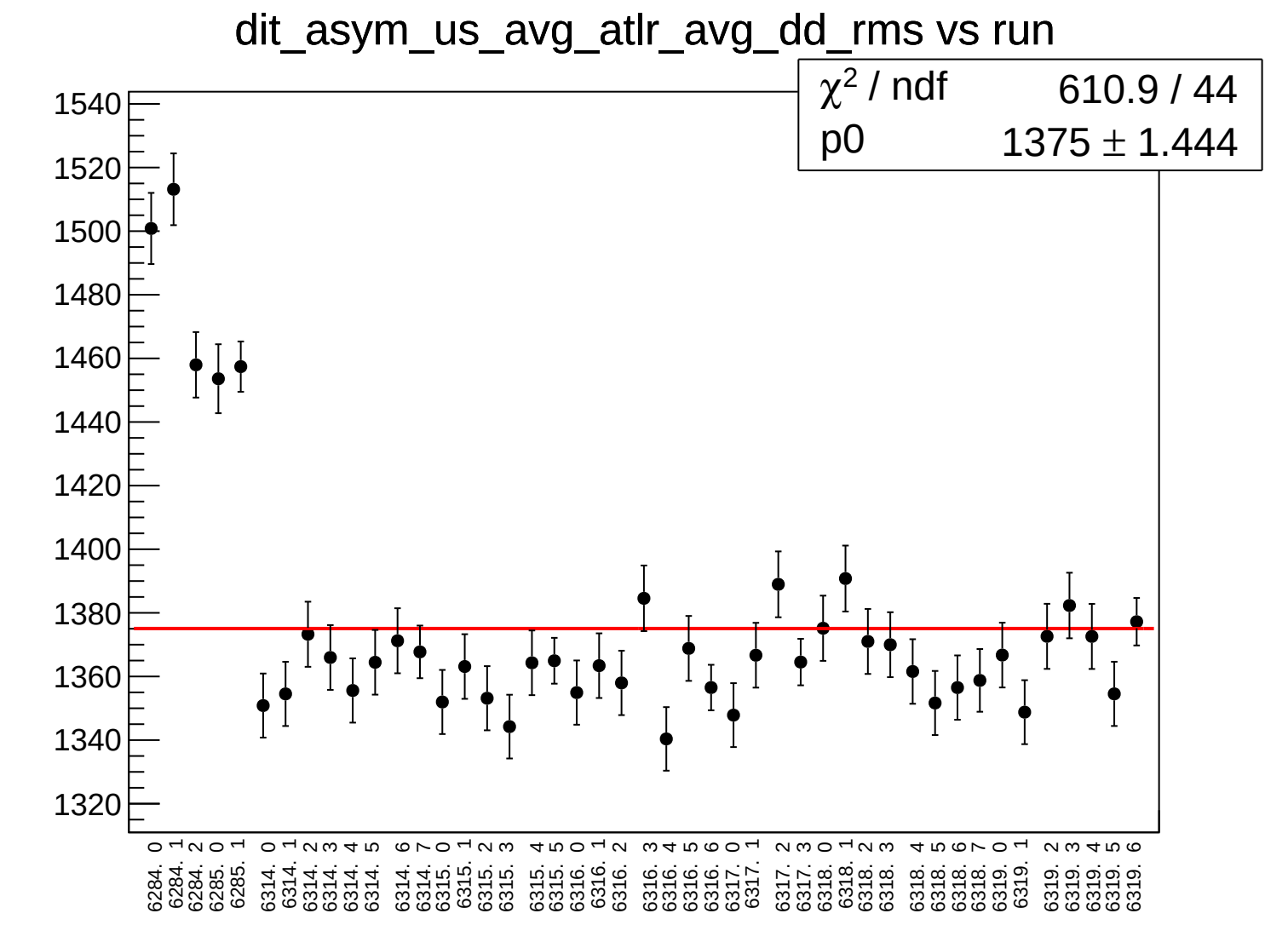
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 41.51 / 44
p0 −4234 ± 2042
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 86.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007012
Std Dev 0.9604
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 610.9 / 44
p0 1375 ± 1.444
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 4
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6318. 7
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6319. 2
6319. 3
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6319. 5
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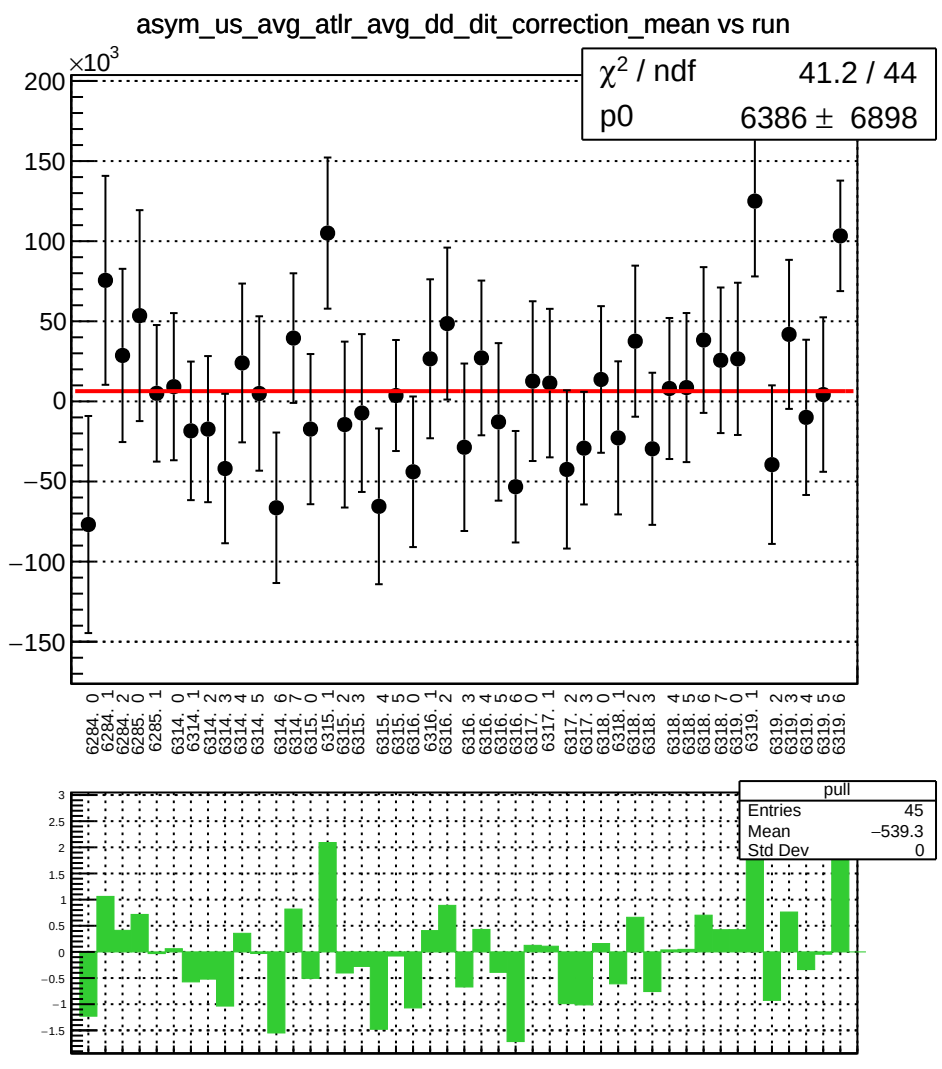
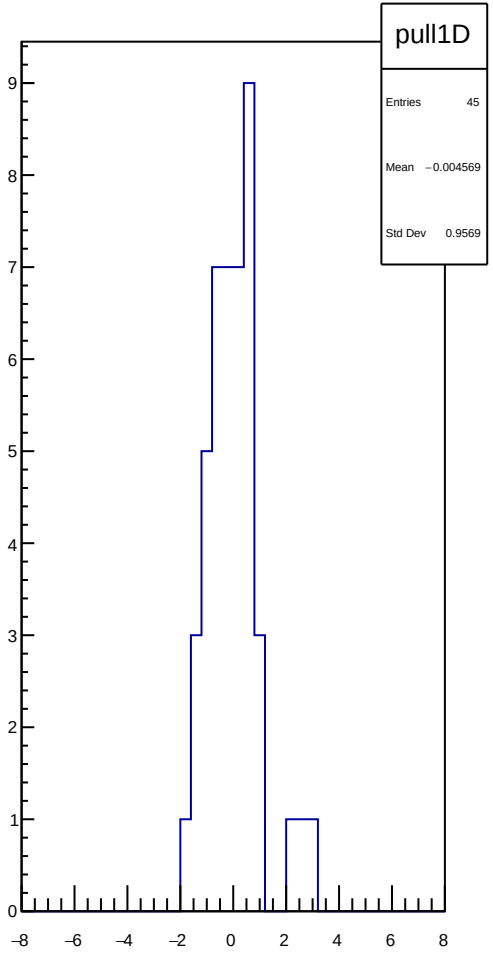
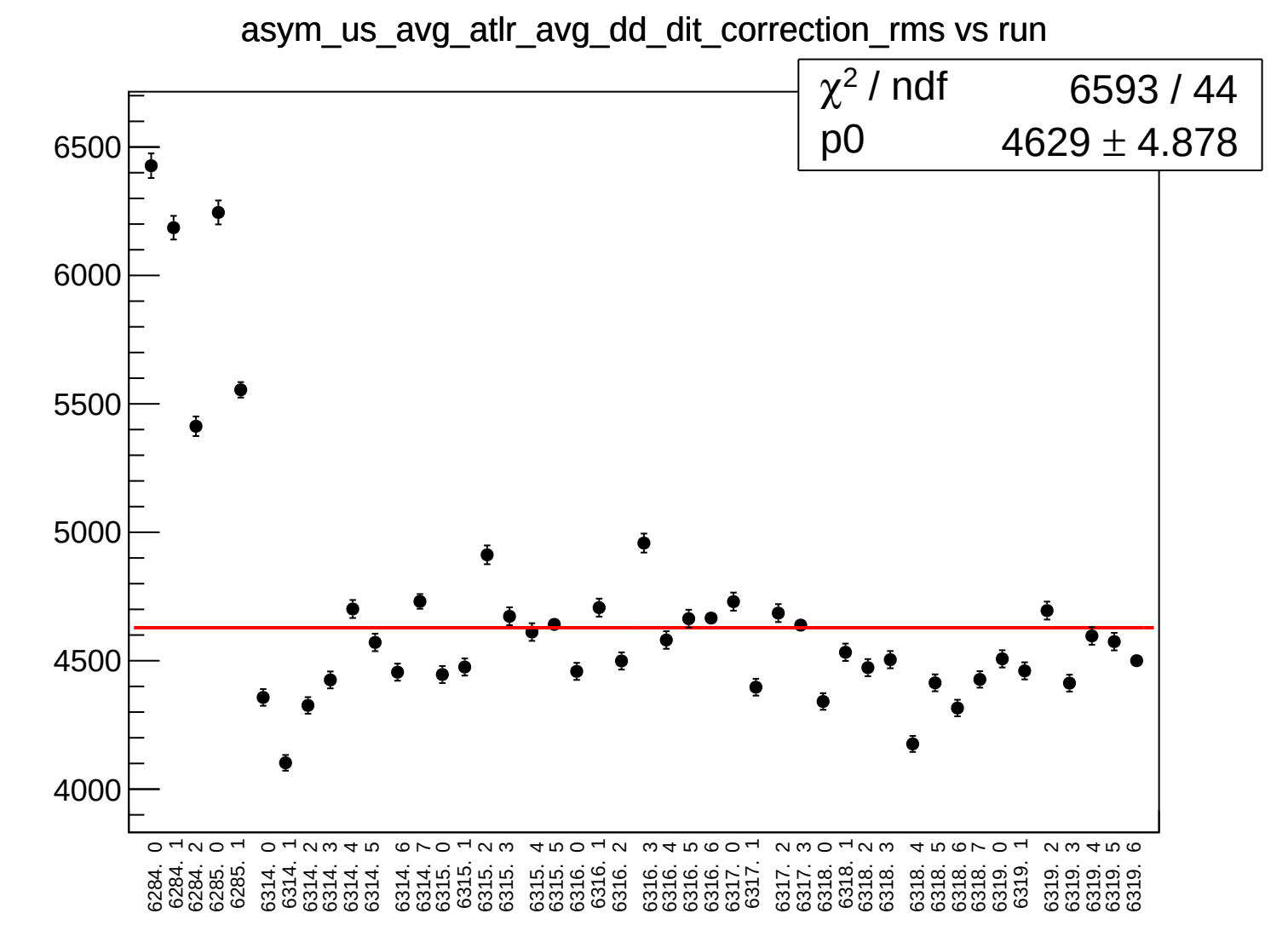
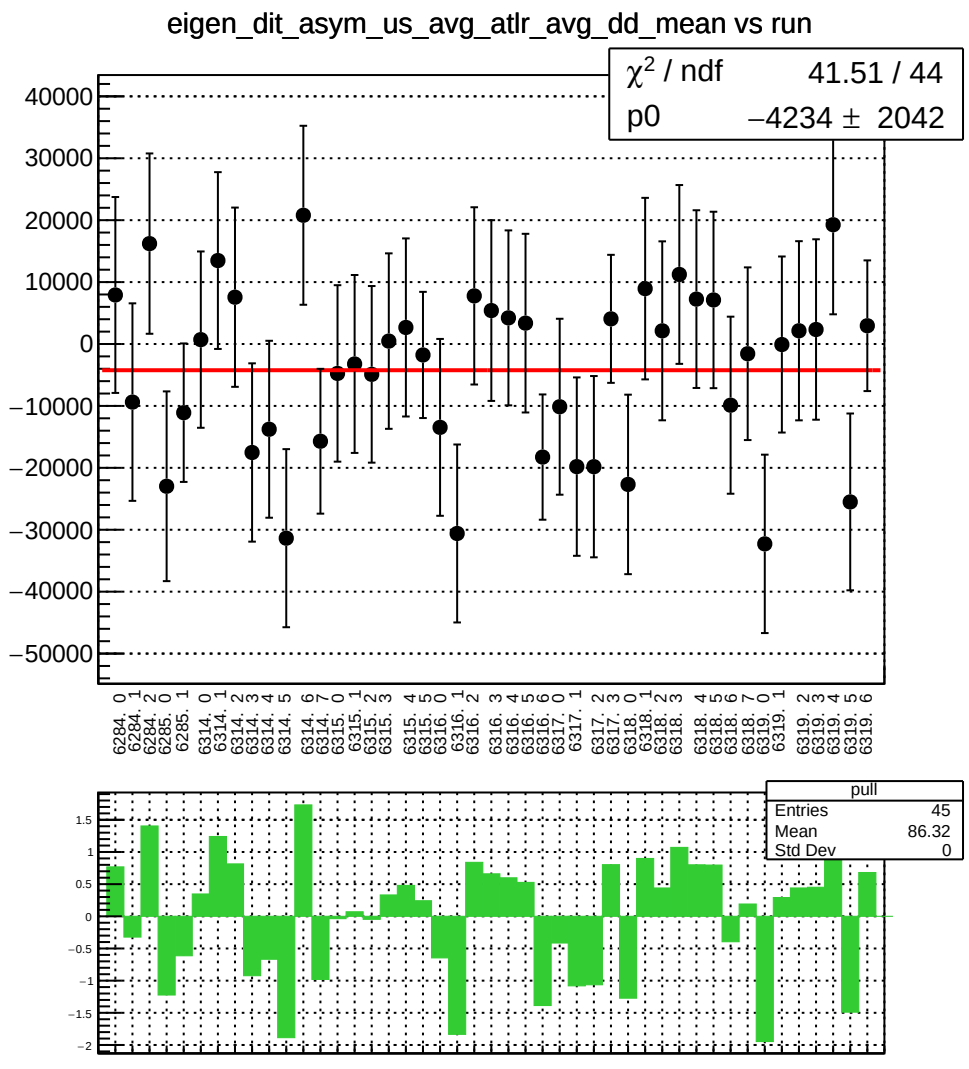
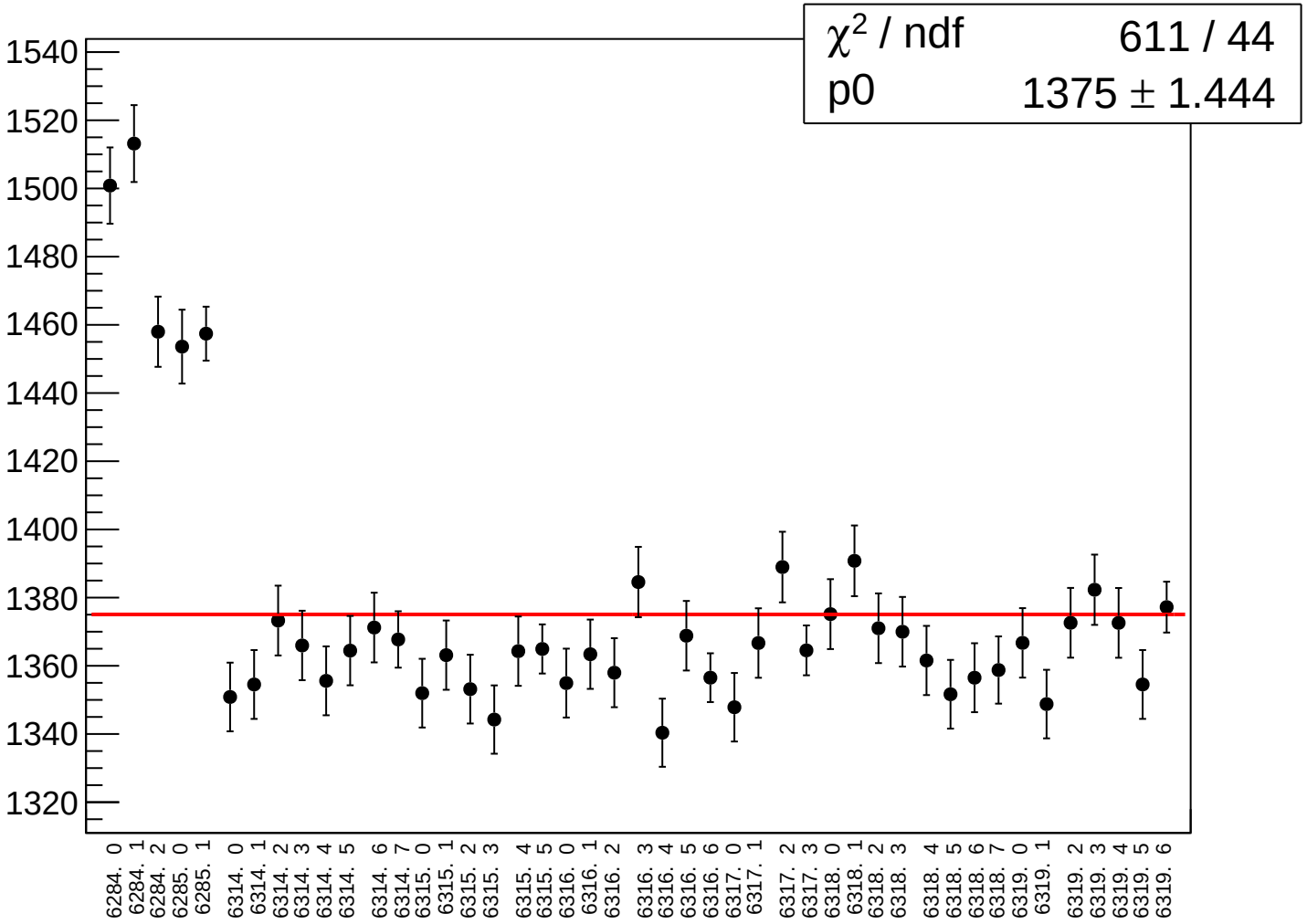
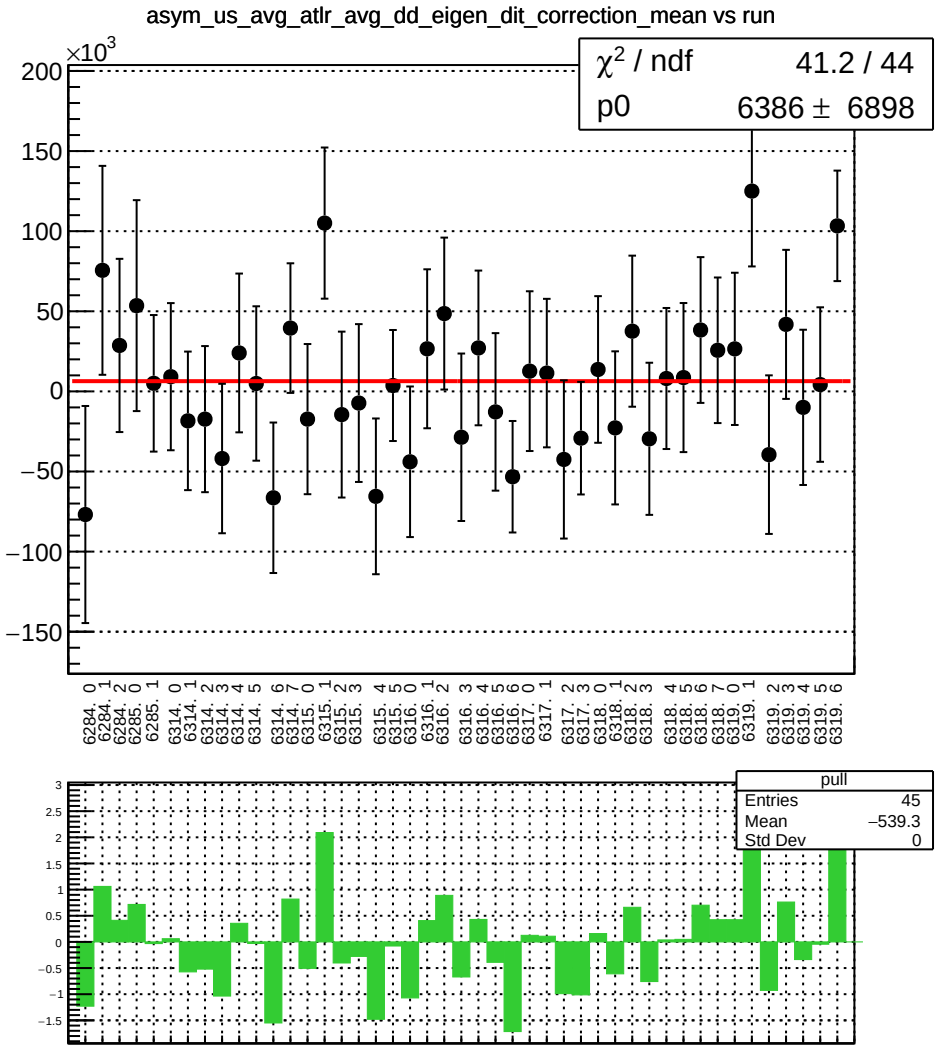

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.2 / 44
p0 6386 ± 6898
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −539.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

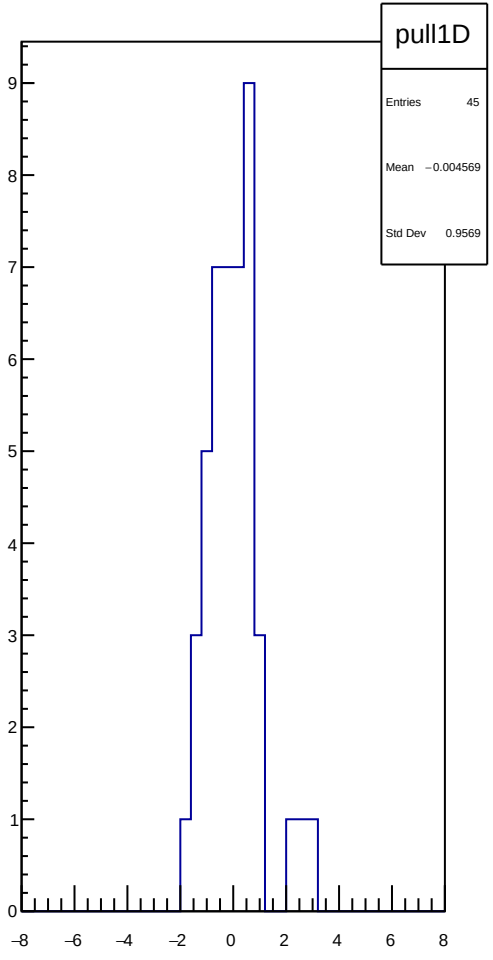

pull1D
Entries 45
Mean −0.004569
Std Dev 0.9569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

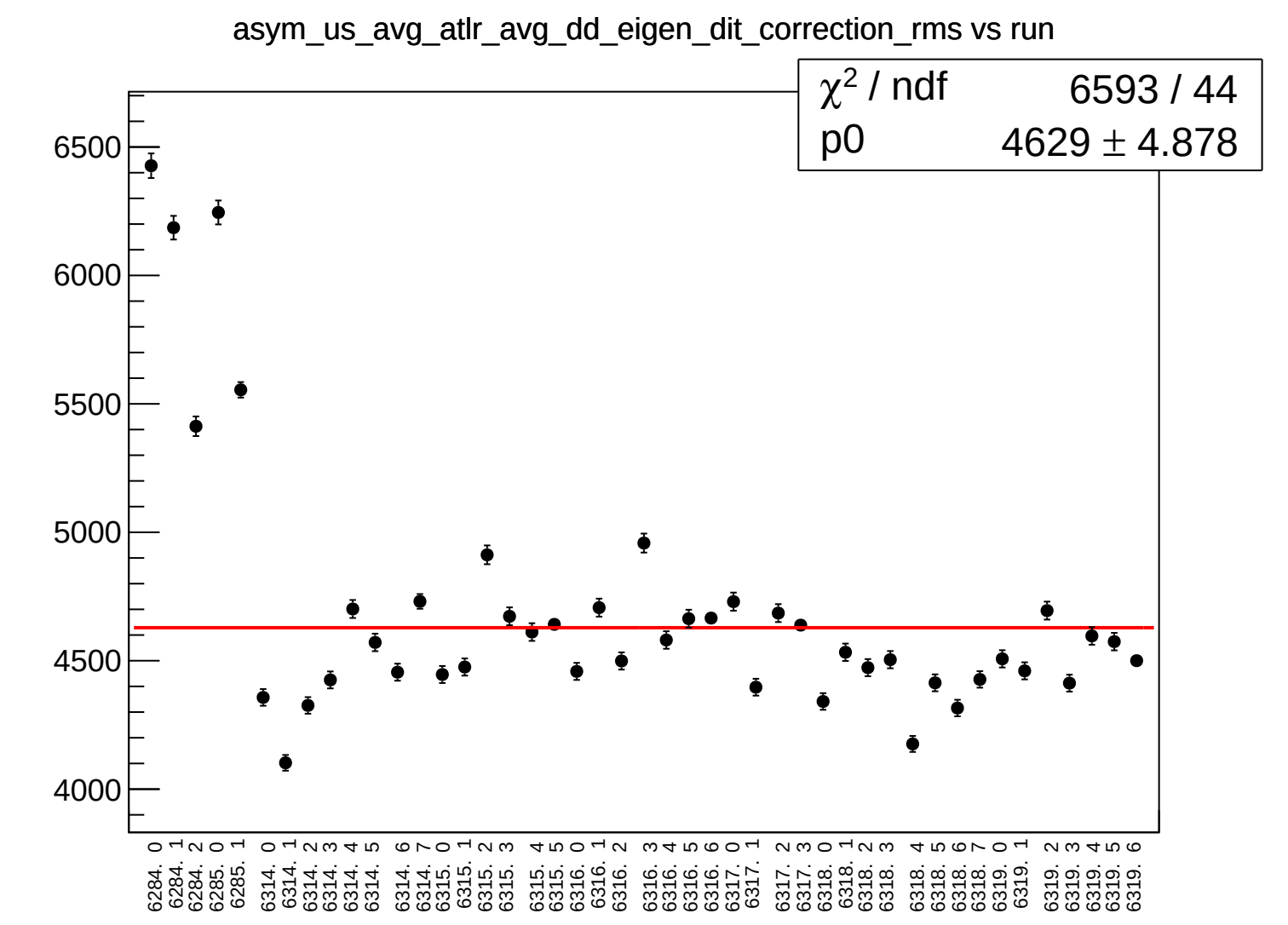

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 6593 / 44
p0 4629 ± 4.878
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

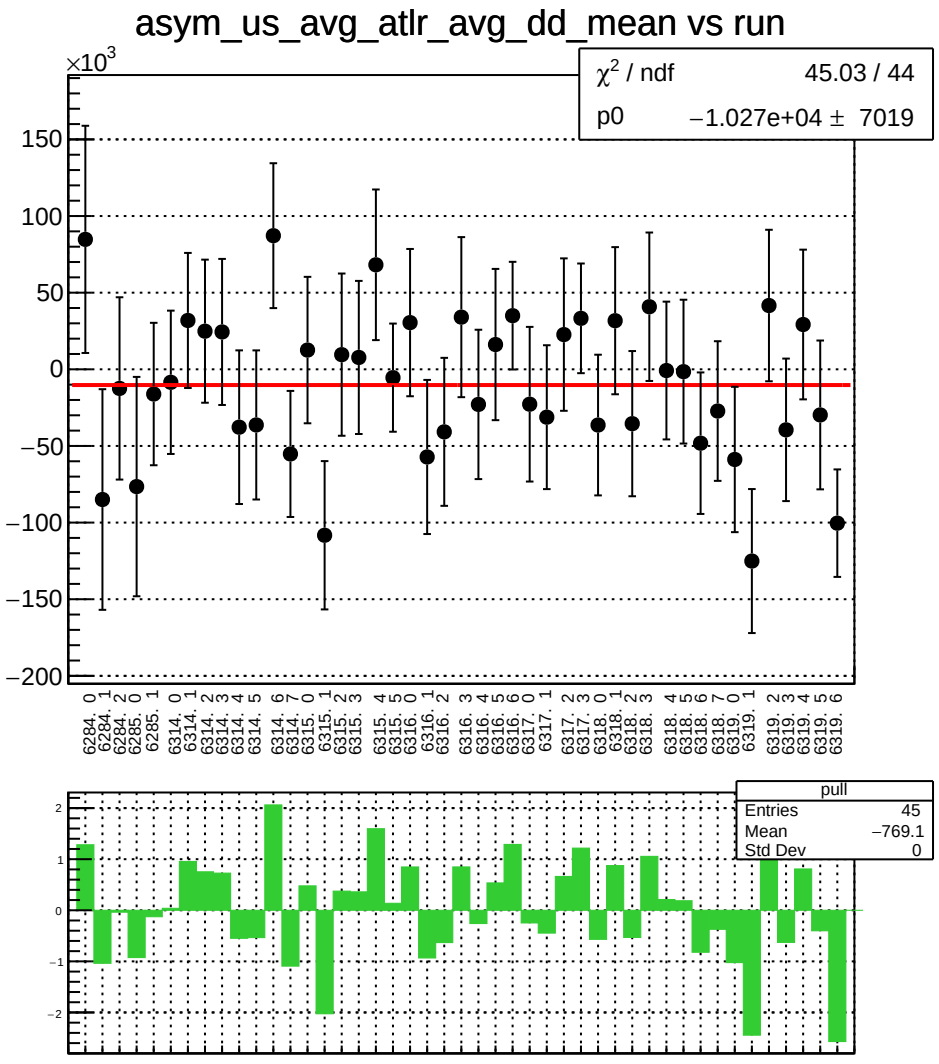

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 41.51 / 44
p0 −4234 ± 2042
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 86.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007012
Std Dev 0.9604
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

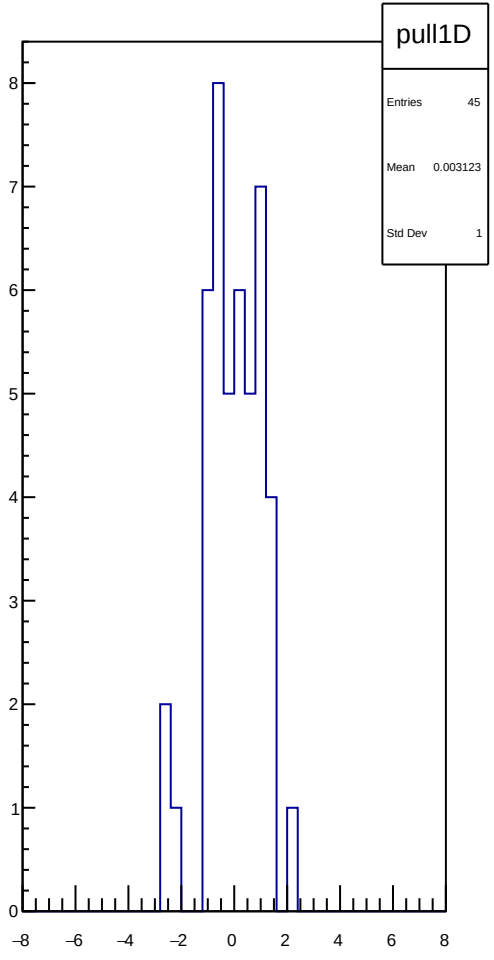

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 611 / 44
p0 1375 ± 1.444
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

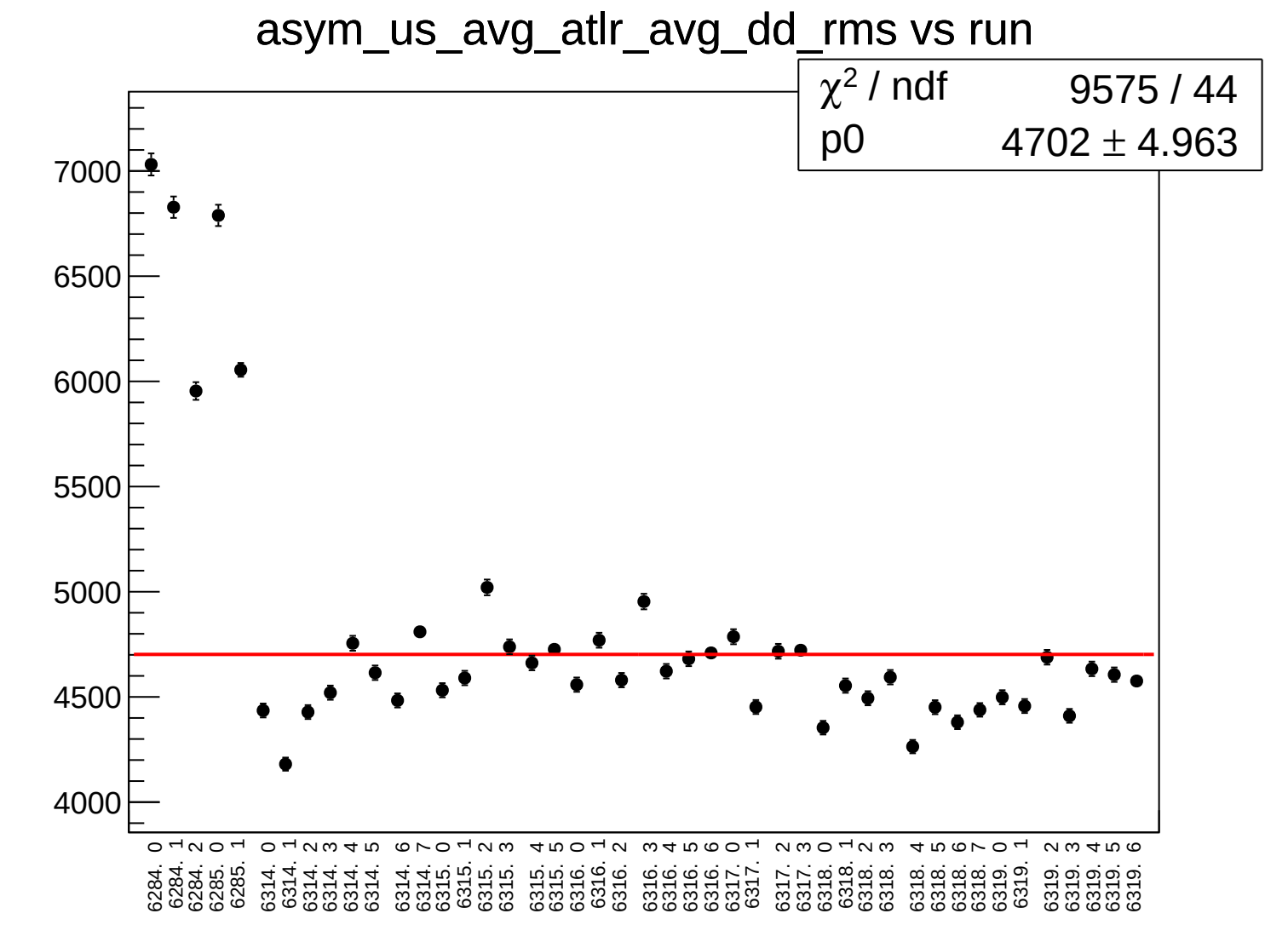

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.2 / 44
p0 6386 ± 6898
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −539.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

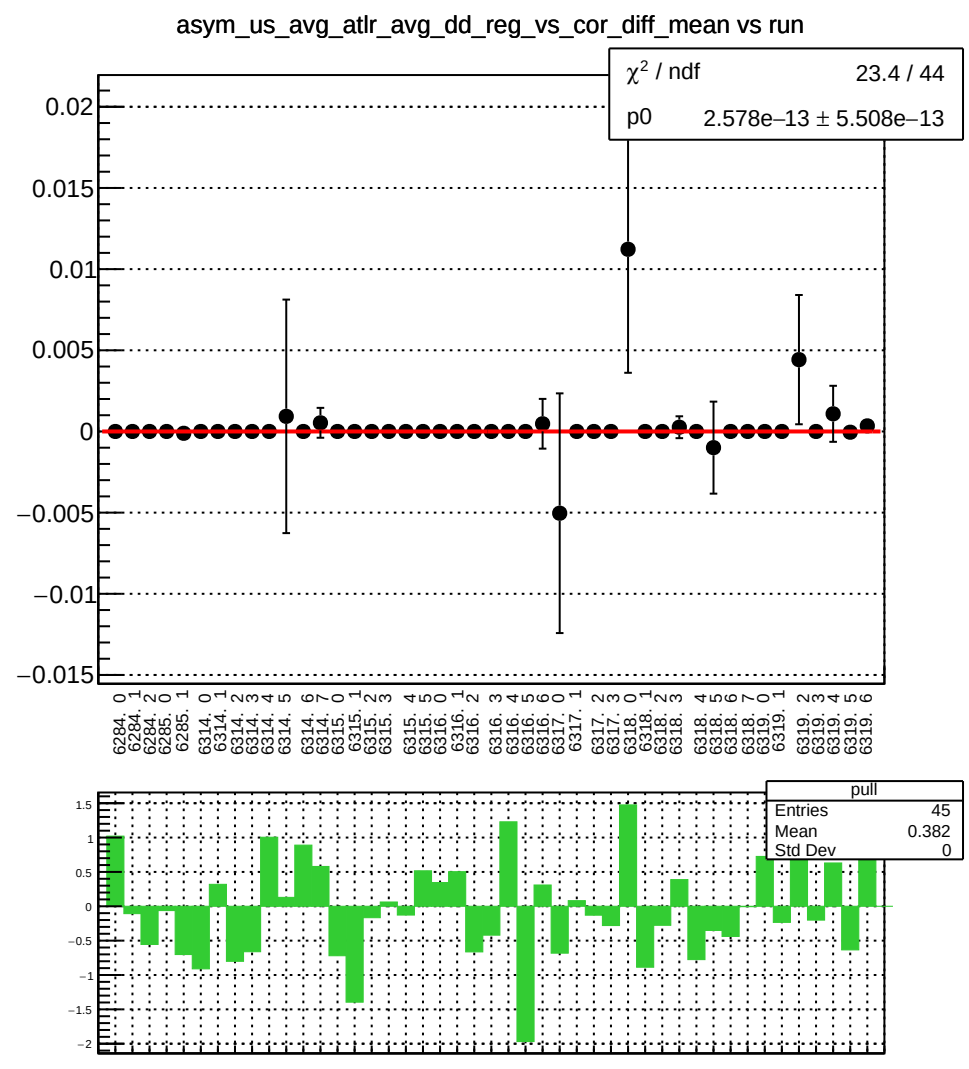

pull1D
Entries 45
Mean −0.004569
Std Dev 0.9569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

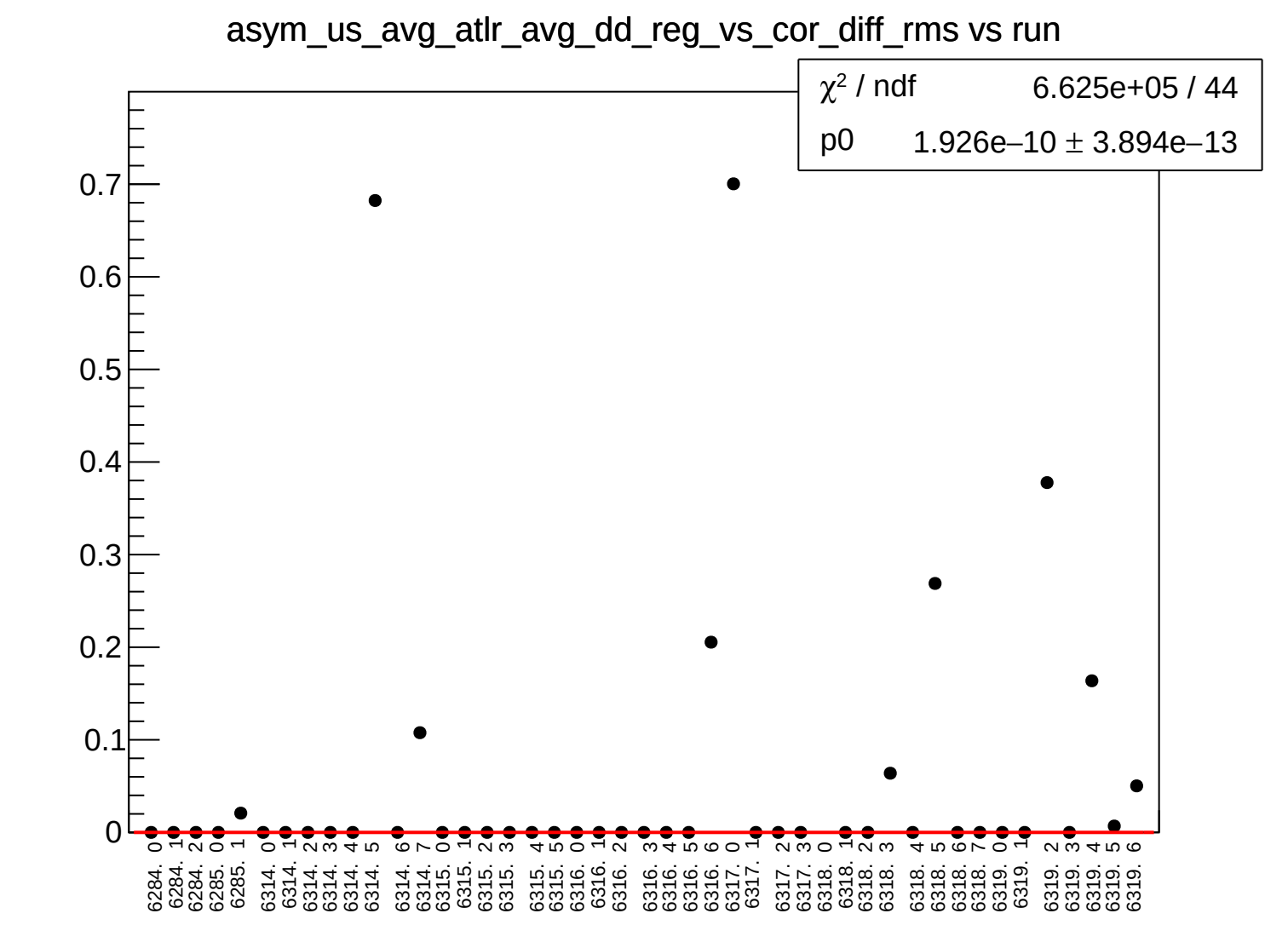

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6593 / 44
p0 4629 ± 4.878
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

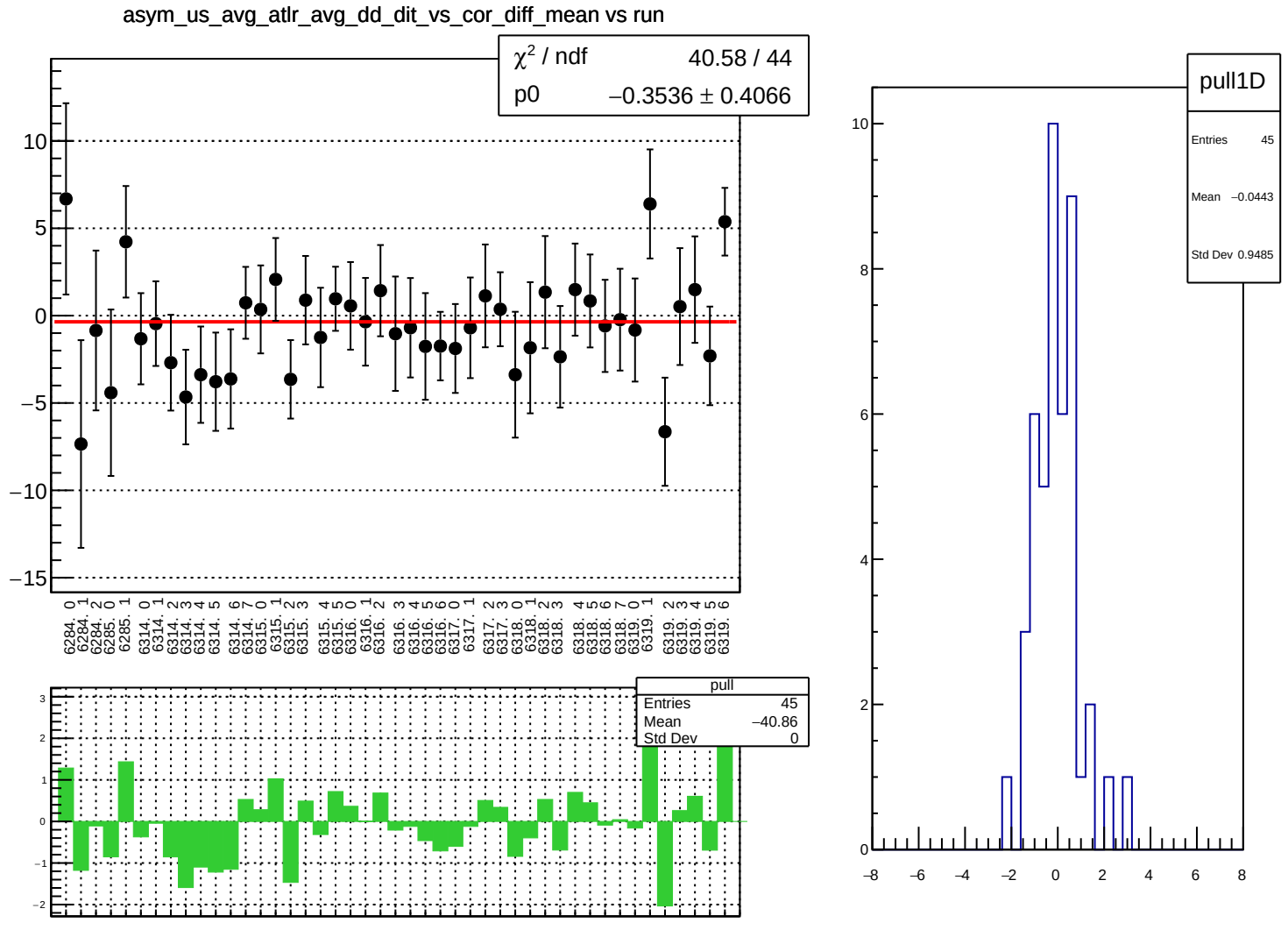

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 45.03 / 44
p0 −1.027e+04 ± 7019
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −769.1
Std Dev 0
2
1
0
−1
−2

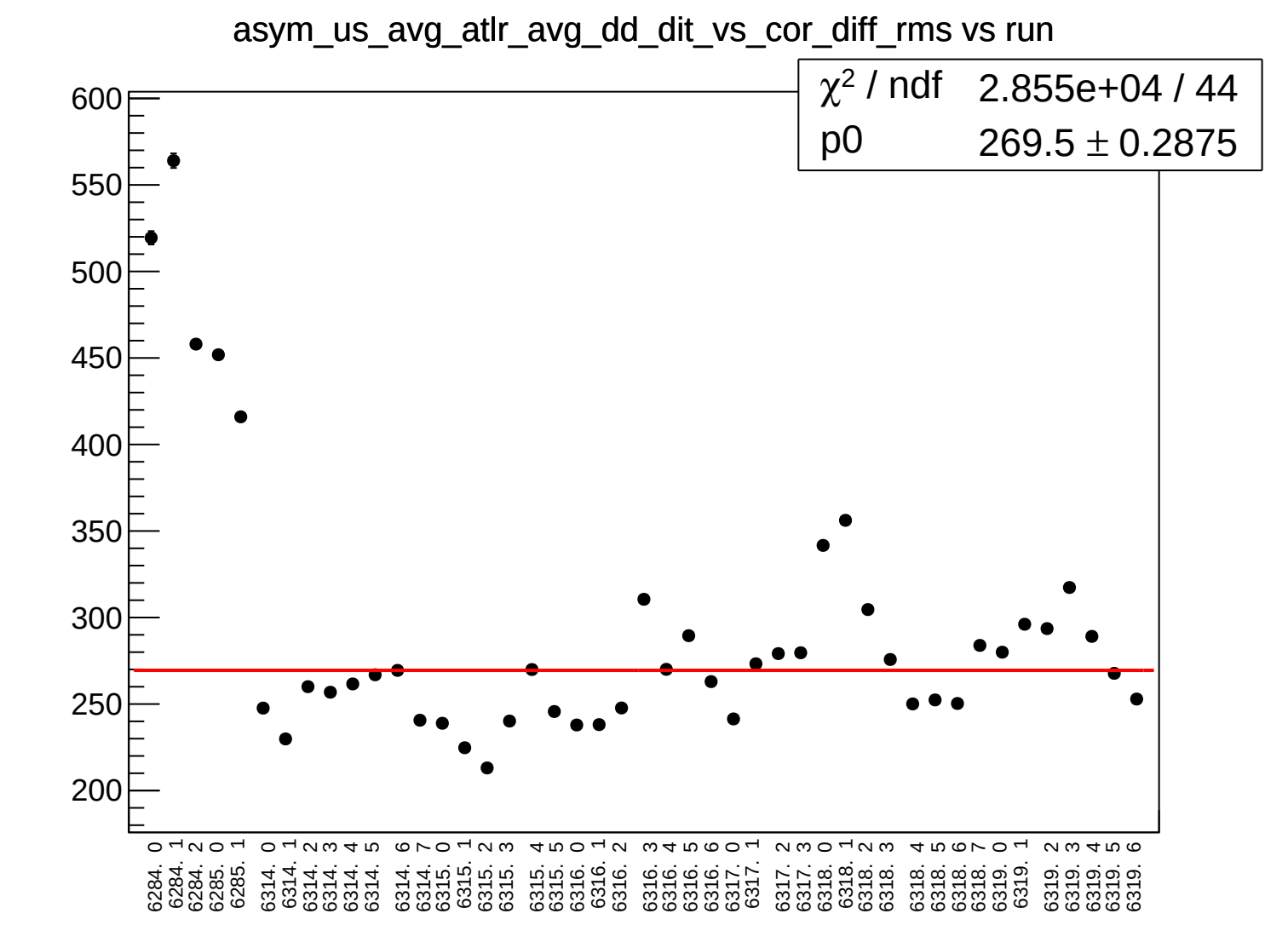

pull1D
Entries 45
Mean 0.003123
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

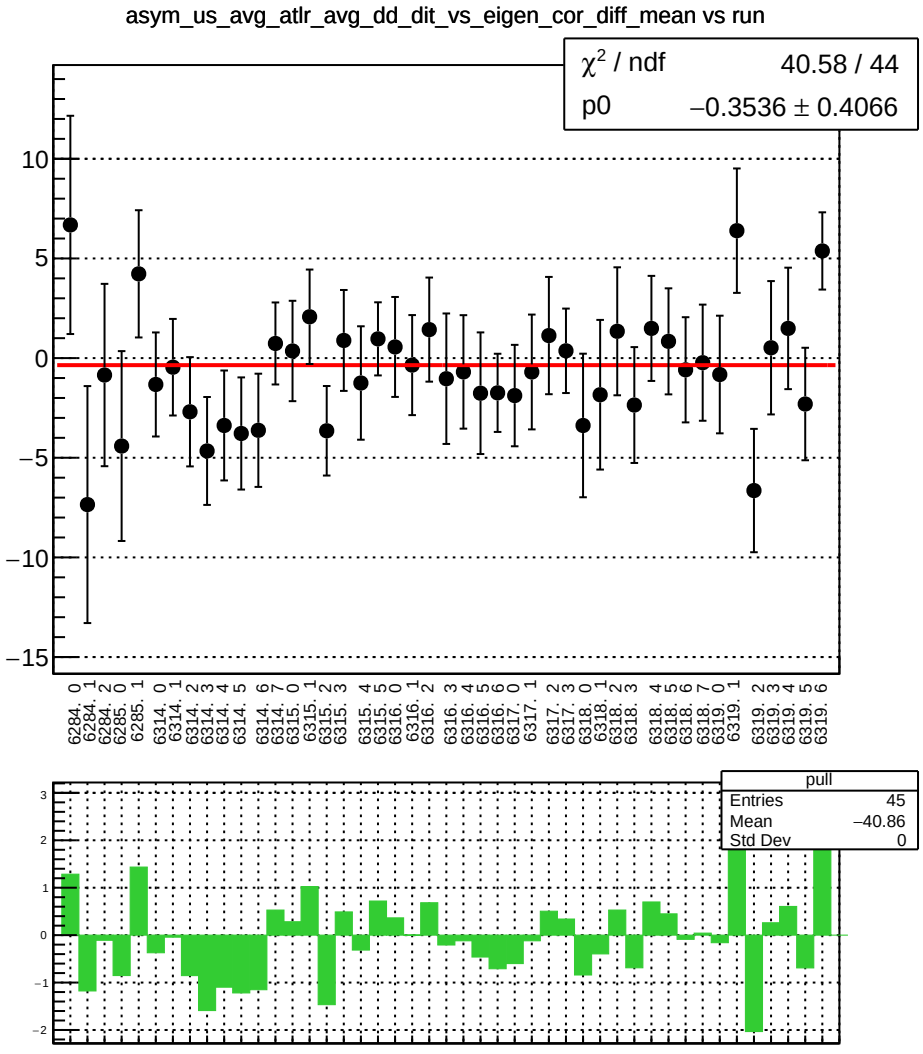

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 9575 / 44
p0 4702 ± 4.963
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

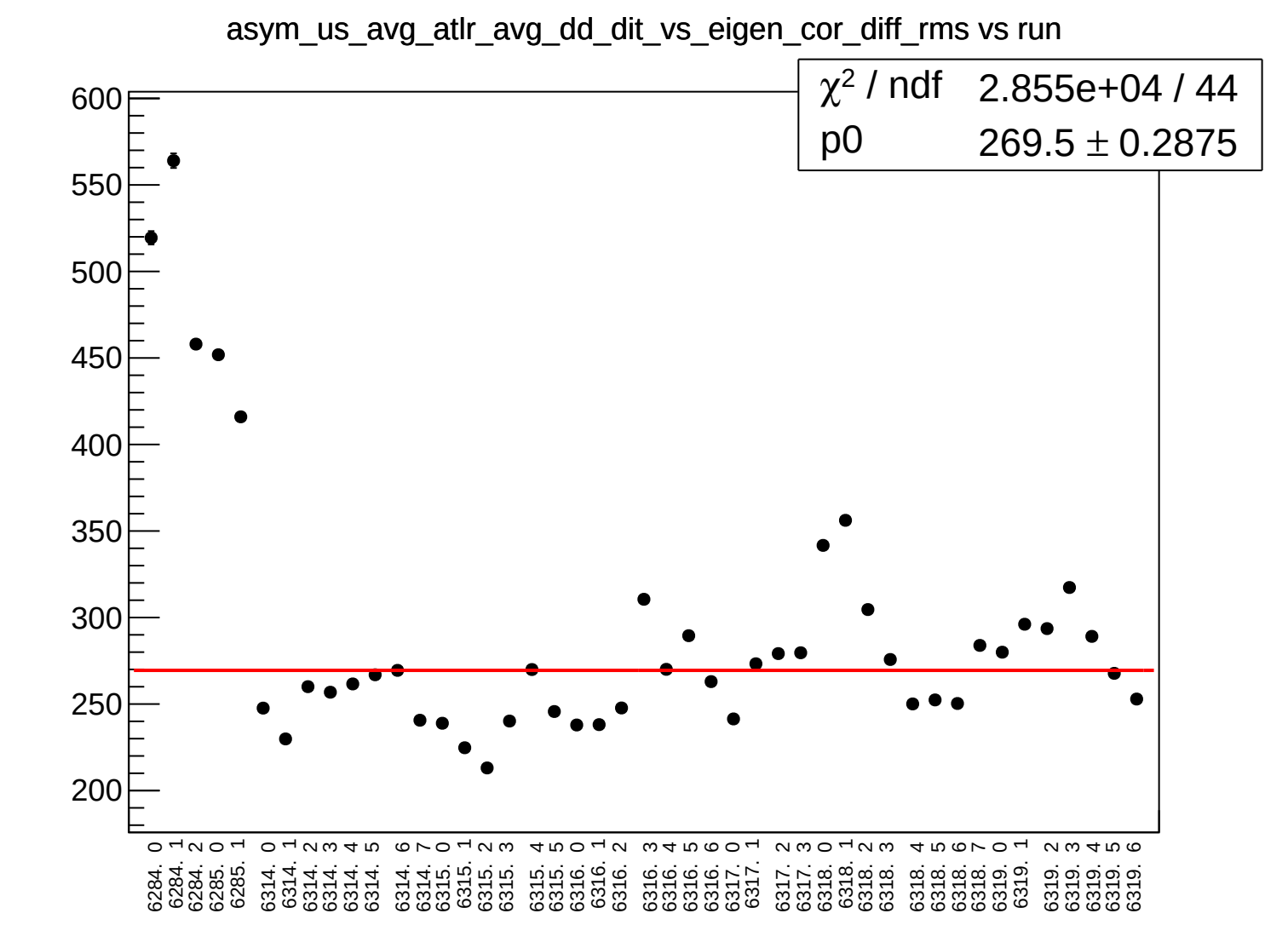

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.4 / 44
p0 2.578e−13 ± 5.508e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 0.382
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04314
Std Dev 0.7198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.625e+05 / 44
p0 1.926e−10 ± 3.894e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 40.58 / 44
p0 −0.3536 ± 0.4066
pull
Entries 45
Mean −40.86
Std Dev 0
pull1D
Entries 45
Mean −0.0443
Std Dev 0.9485


asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.855e+04 / 44
p0 269.5 ± 0.2875
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.58 / 44
p0 −0.3536 ± 0.4066
pull
Entries 45
Mean −40.86
Std Dev 0
pull1D
Entries 45
Mean −0.0443
Std Dev 0.9485


asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.855e+04 / 44
p0 269.5 ± 0.2875
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
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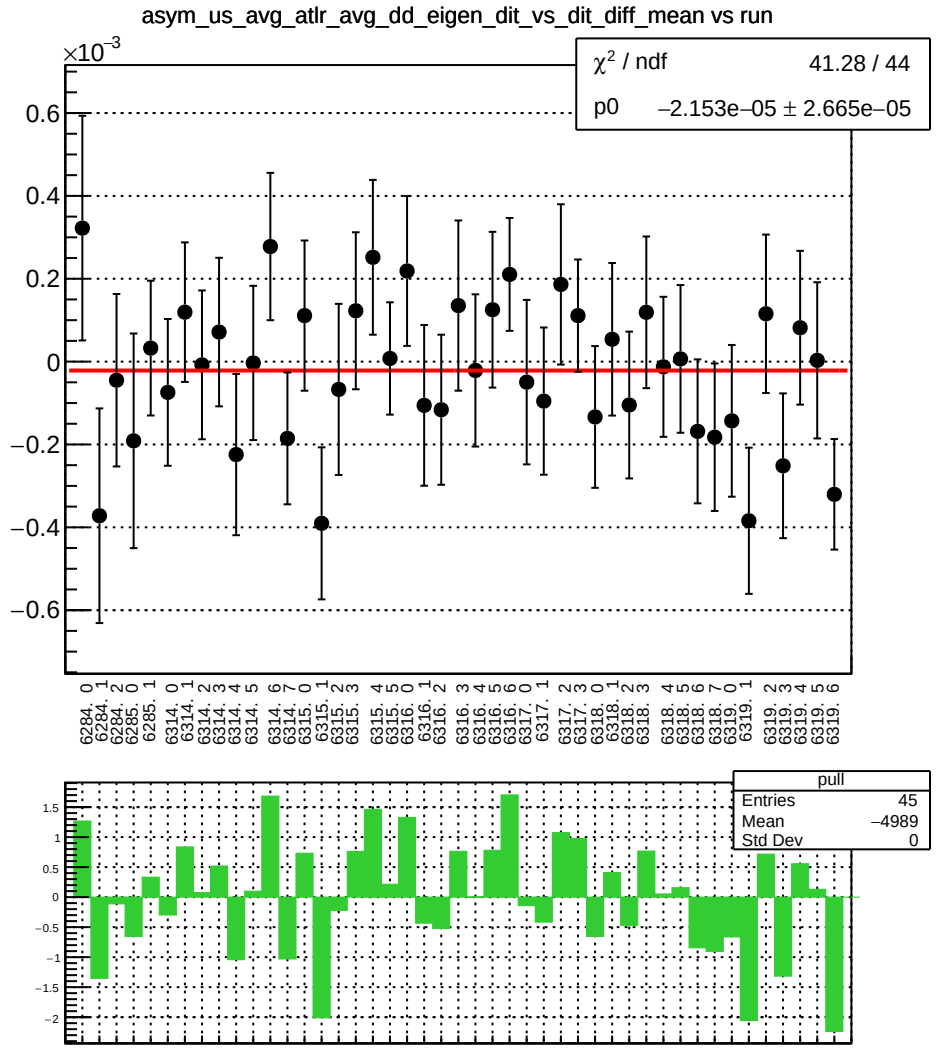
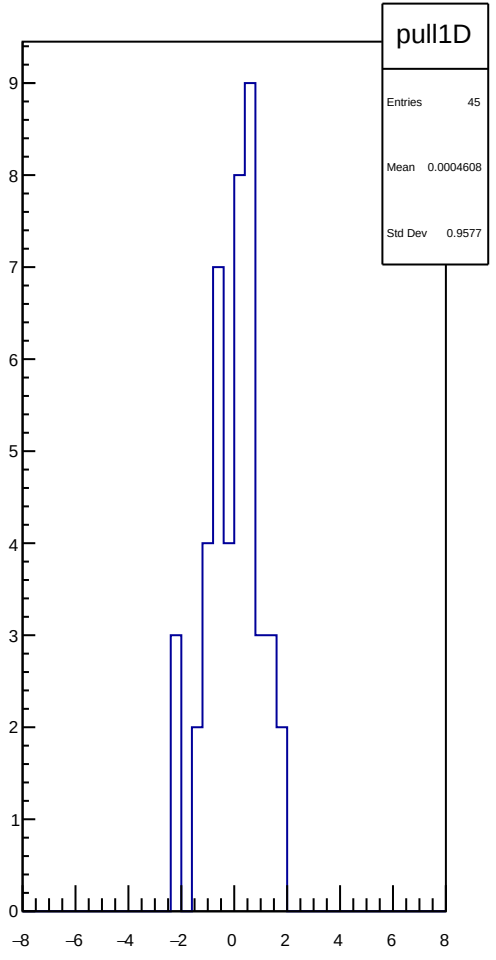
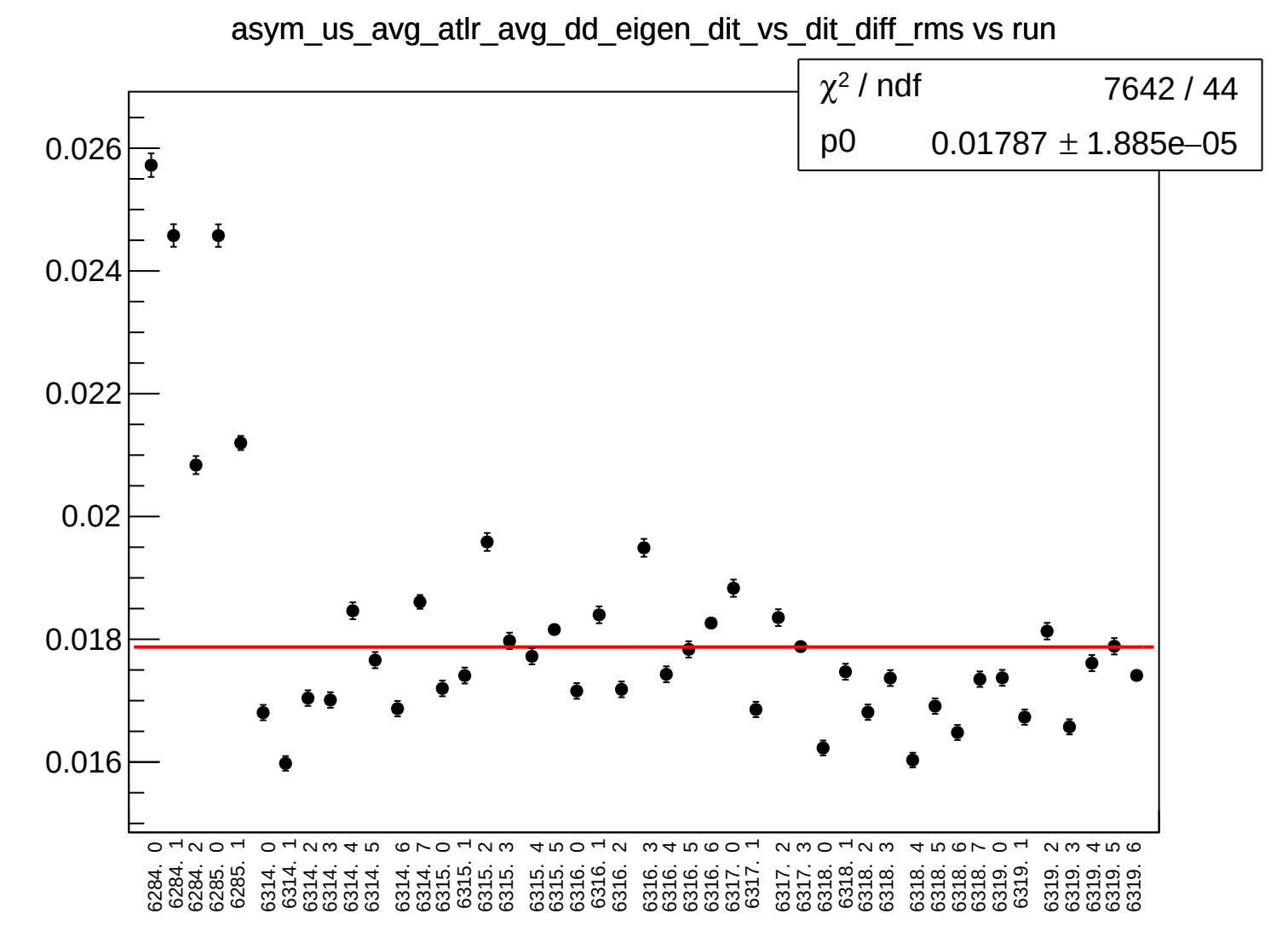
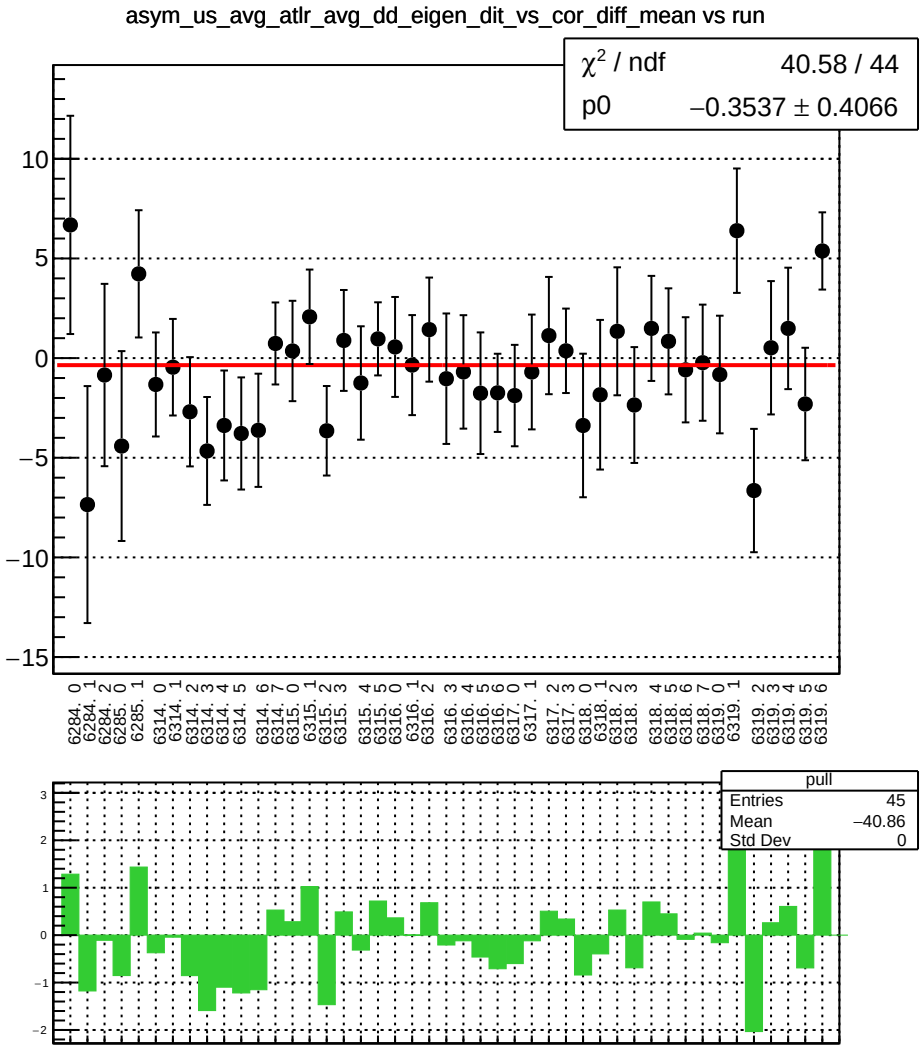
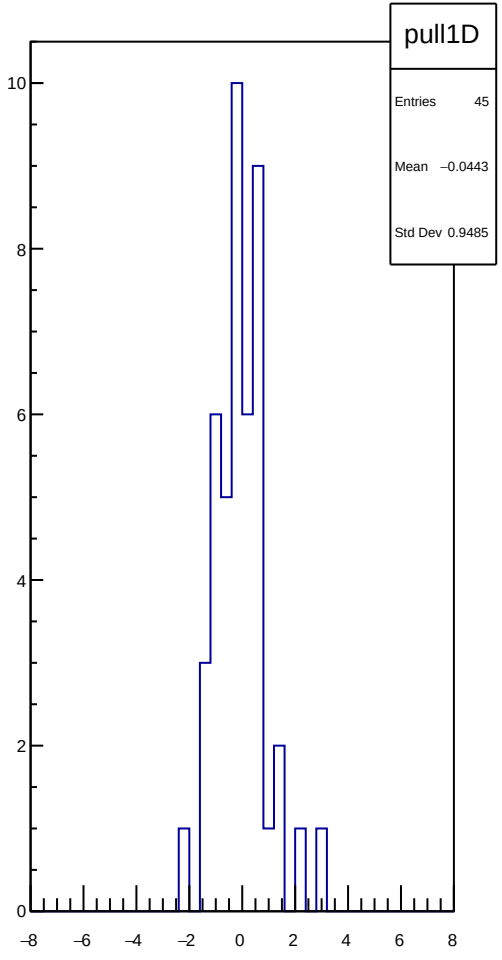
6319. 6

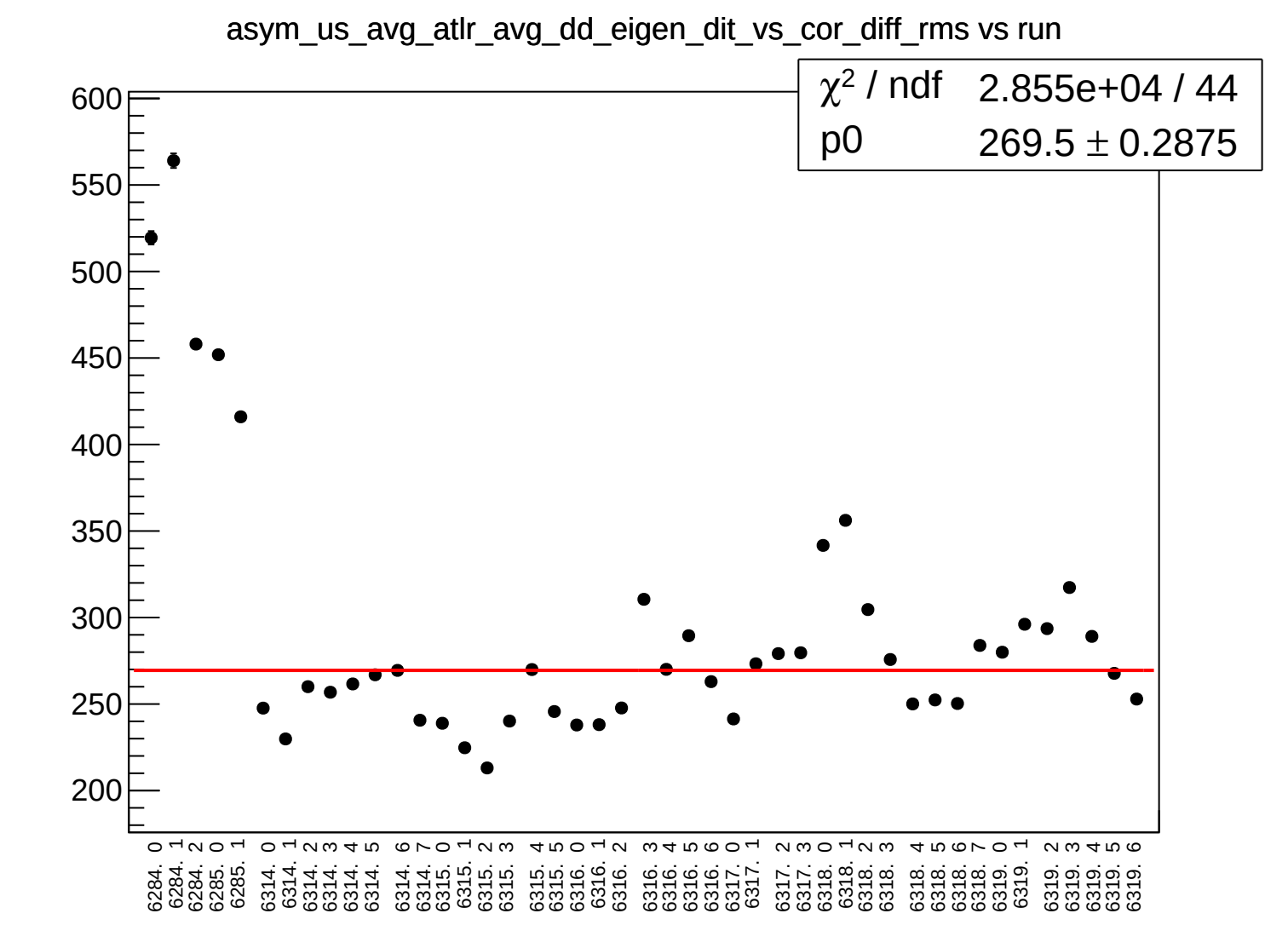

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.28 / 44
p0 −2.153e−05 ± 2.665e−05
pull
Entries 45
Mean −4989
Std Dev 0

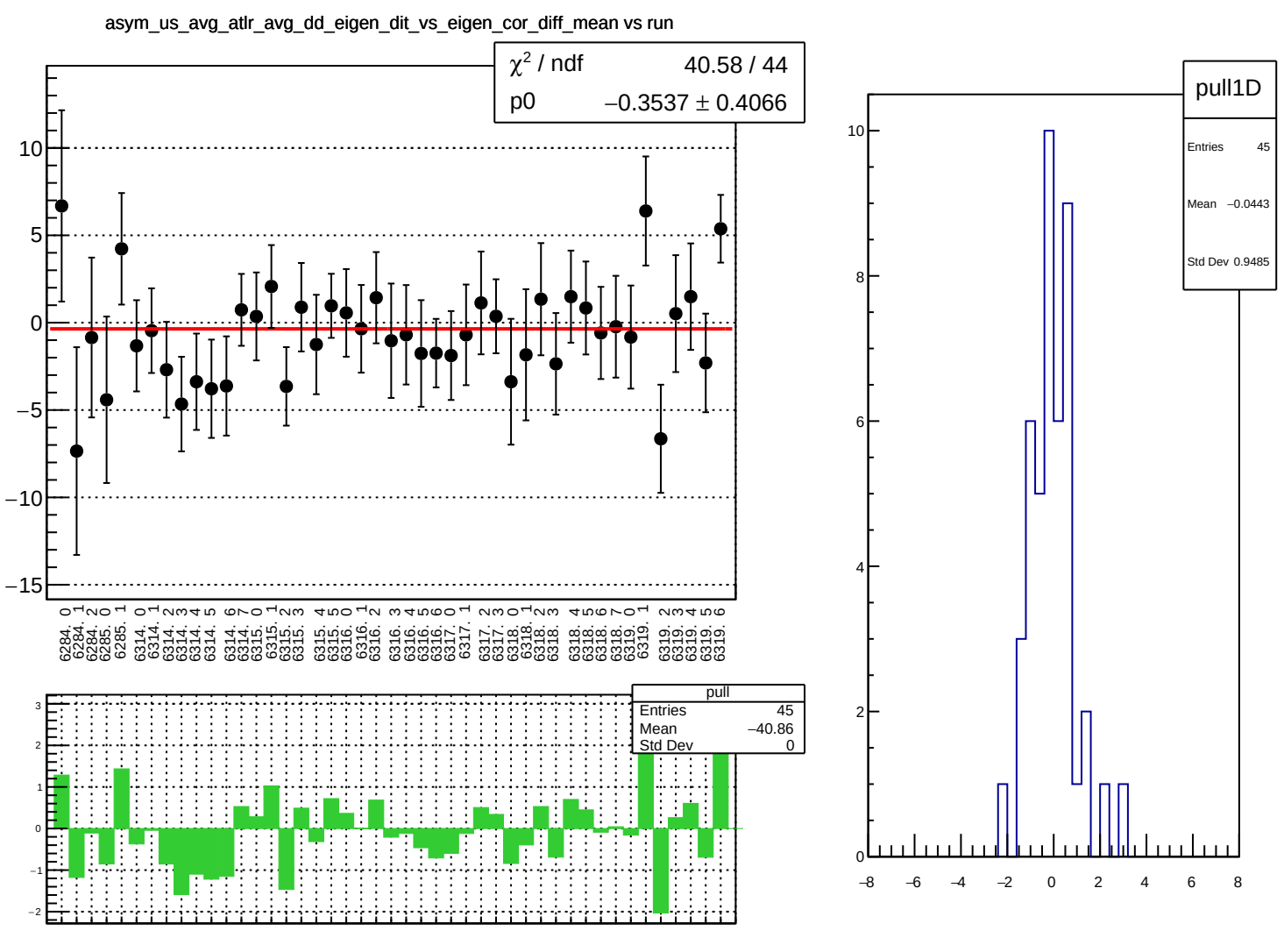

pull1D
Entries 45
Mean 0.0004608
Std Dev 0.9577

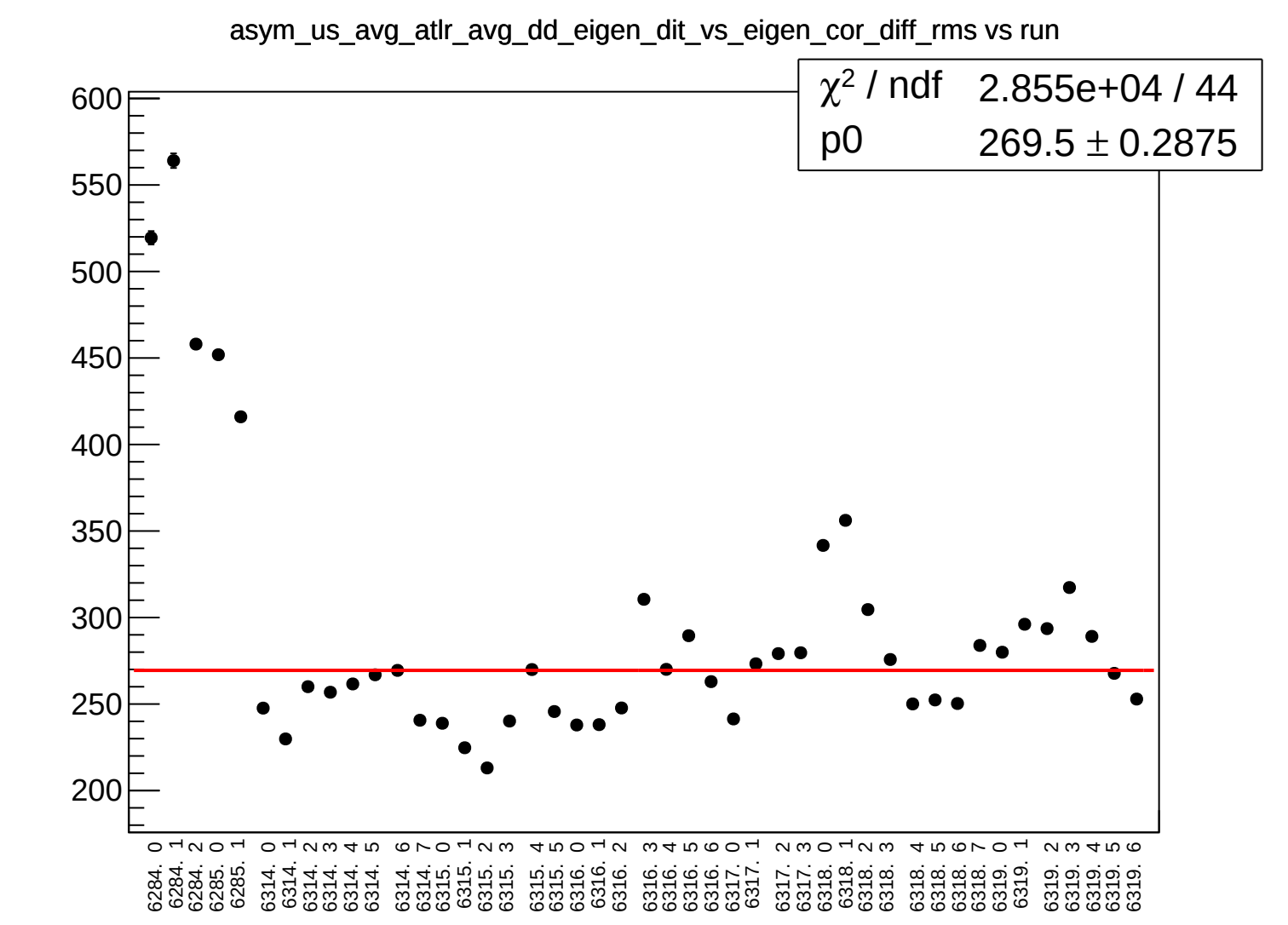

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7642 / 44
p0 0.01787 ± 1.885e−05
0.026
0.024
0.022
0.02
0.018
0.016
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

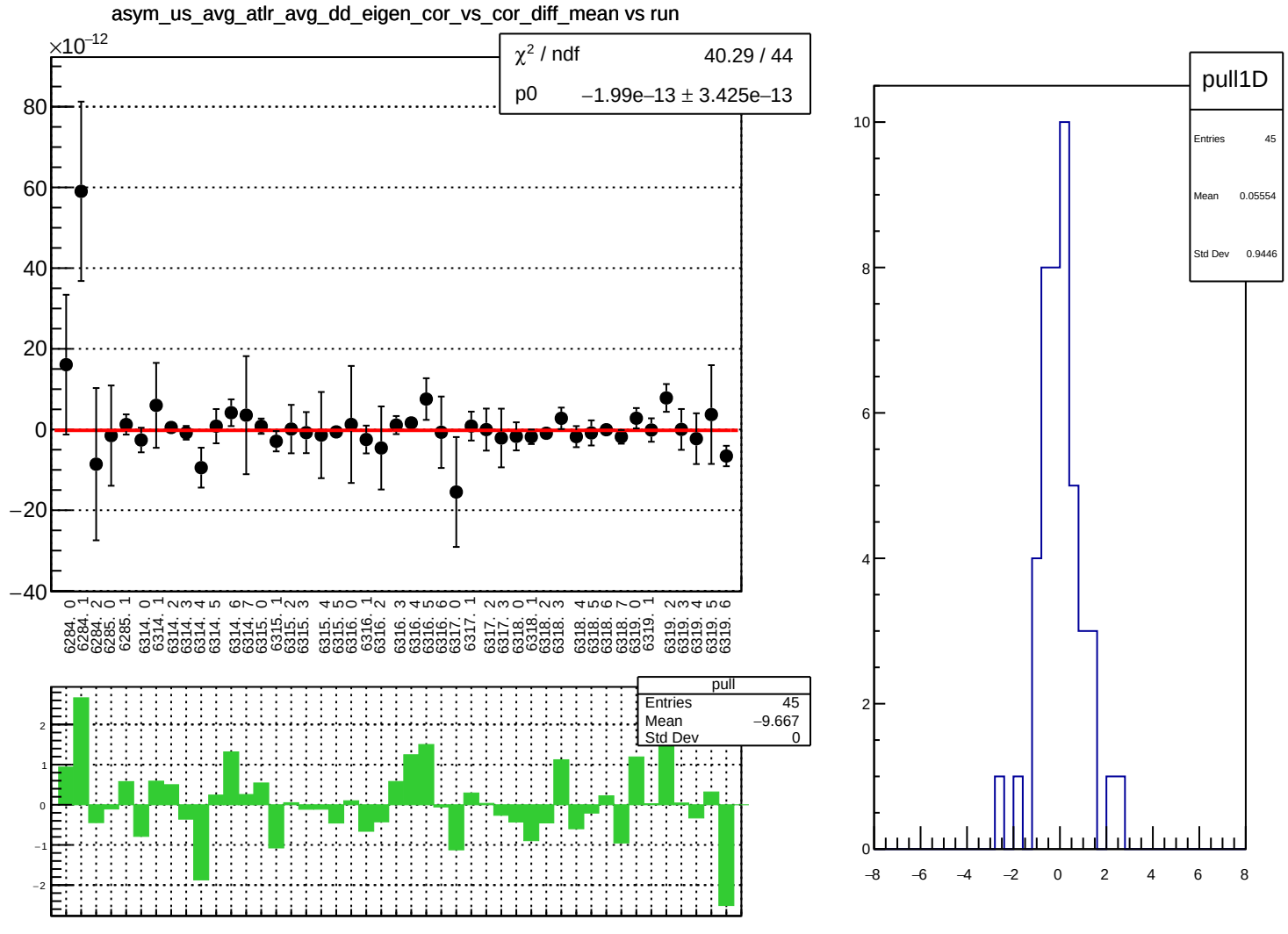

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.58 / 44
p0 −0.3537 ± 0.4066
pull
Entries 45
Mean −40.86
Std Dev 0

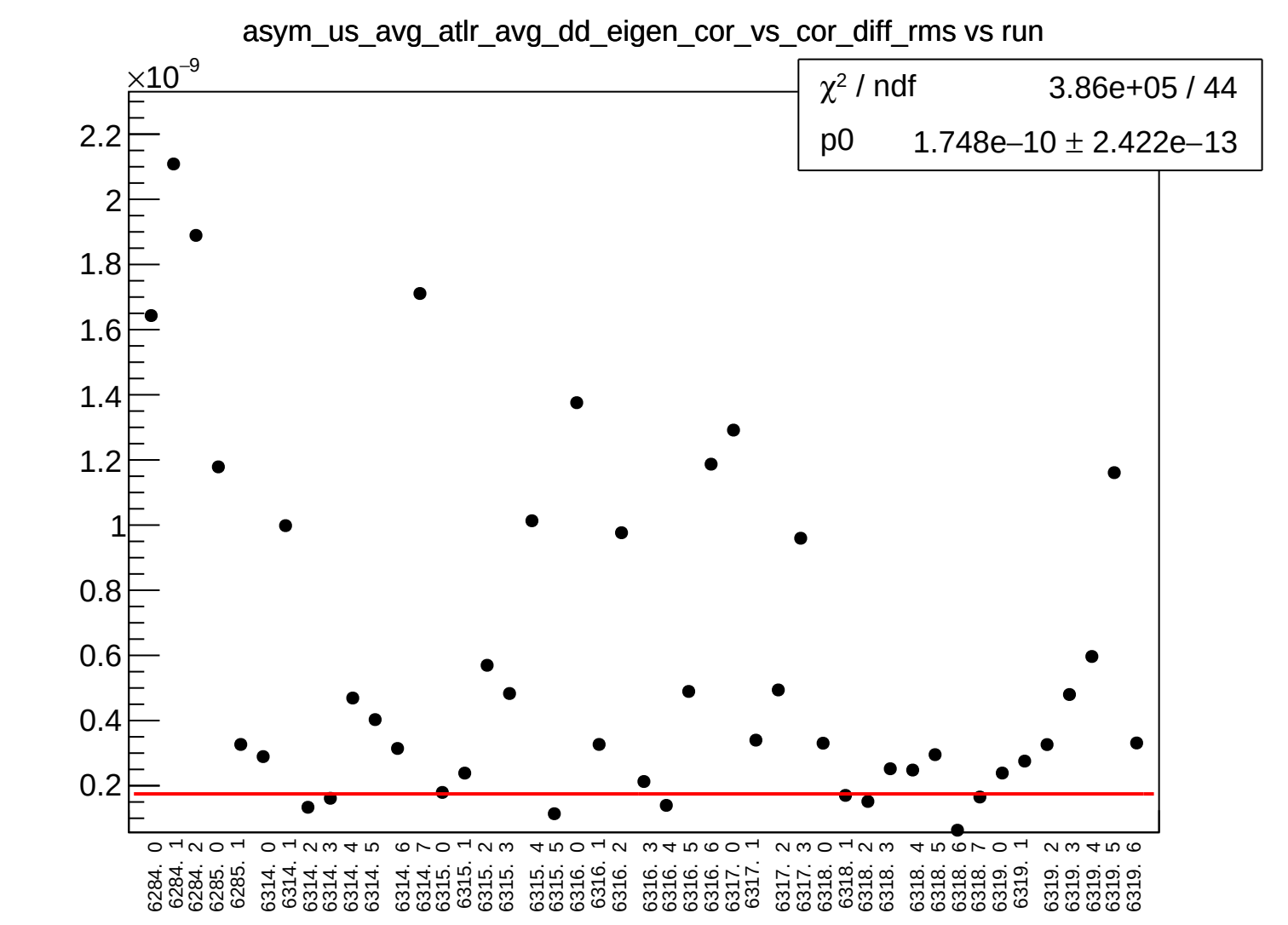

pull1D
Entries 45
Mean −0.0443
Std Dev 0.9485

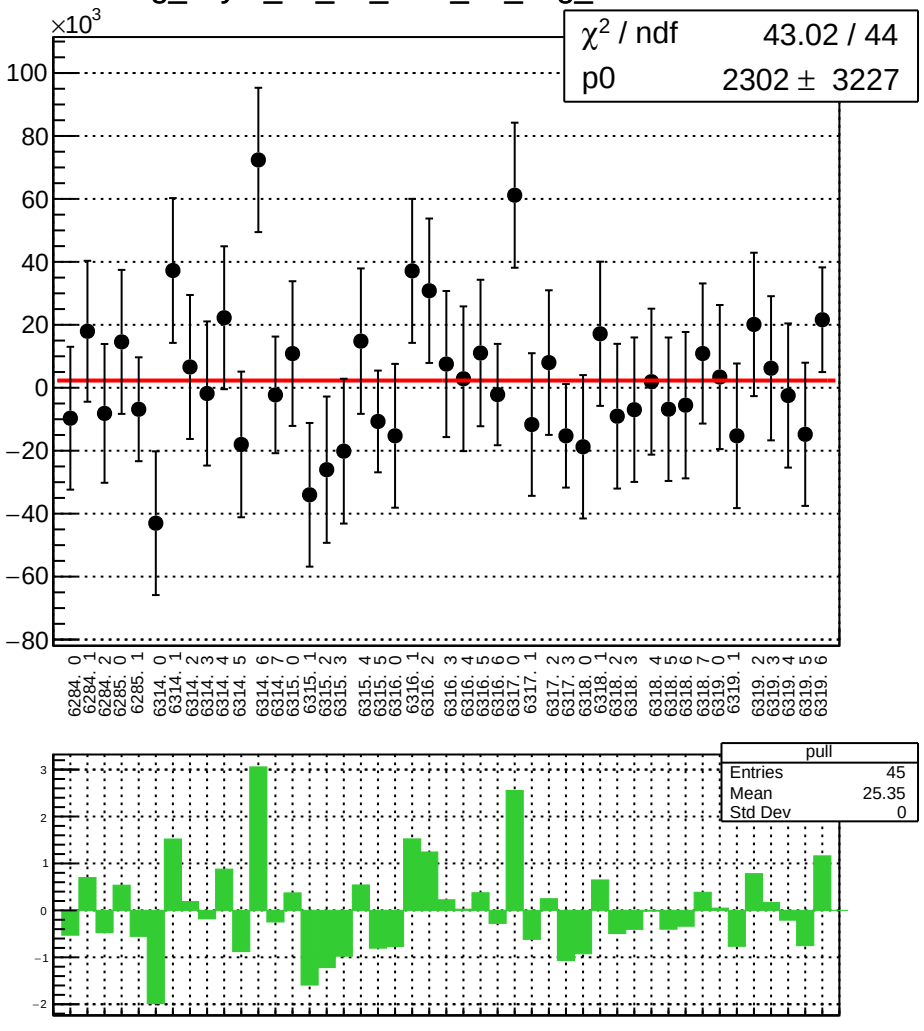

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.855e+04 / 44
p0 269.5 ± 0.2875
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

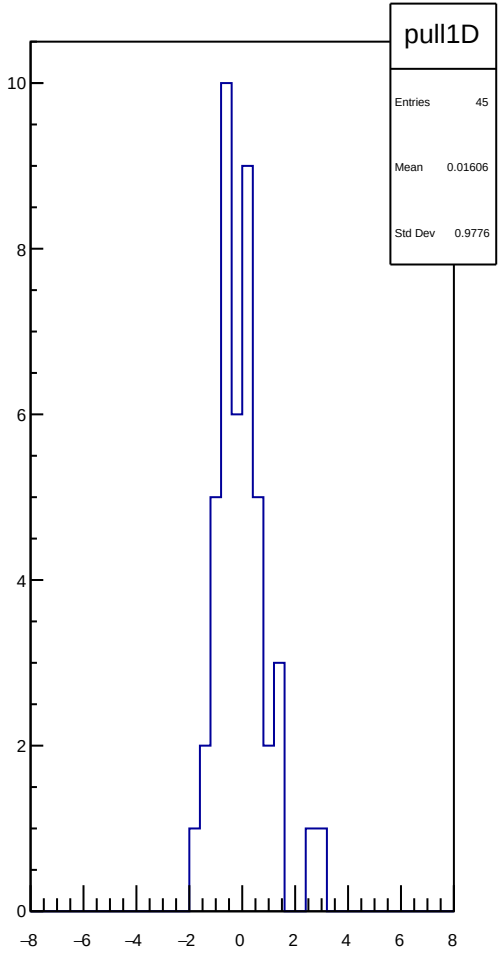

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.58 / 44
p0 −0.3537 ± 0.4066
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −40.86
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0443
Std Dev 0.9485
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

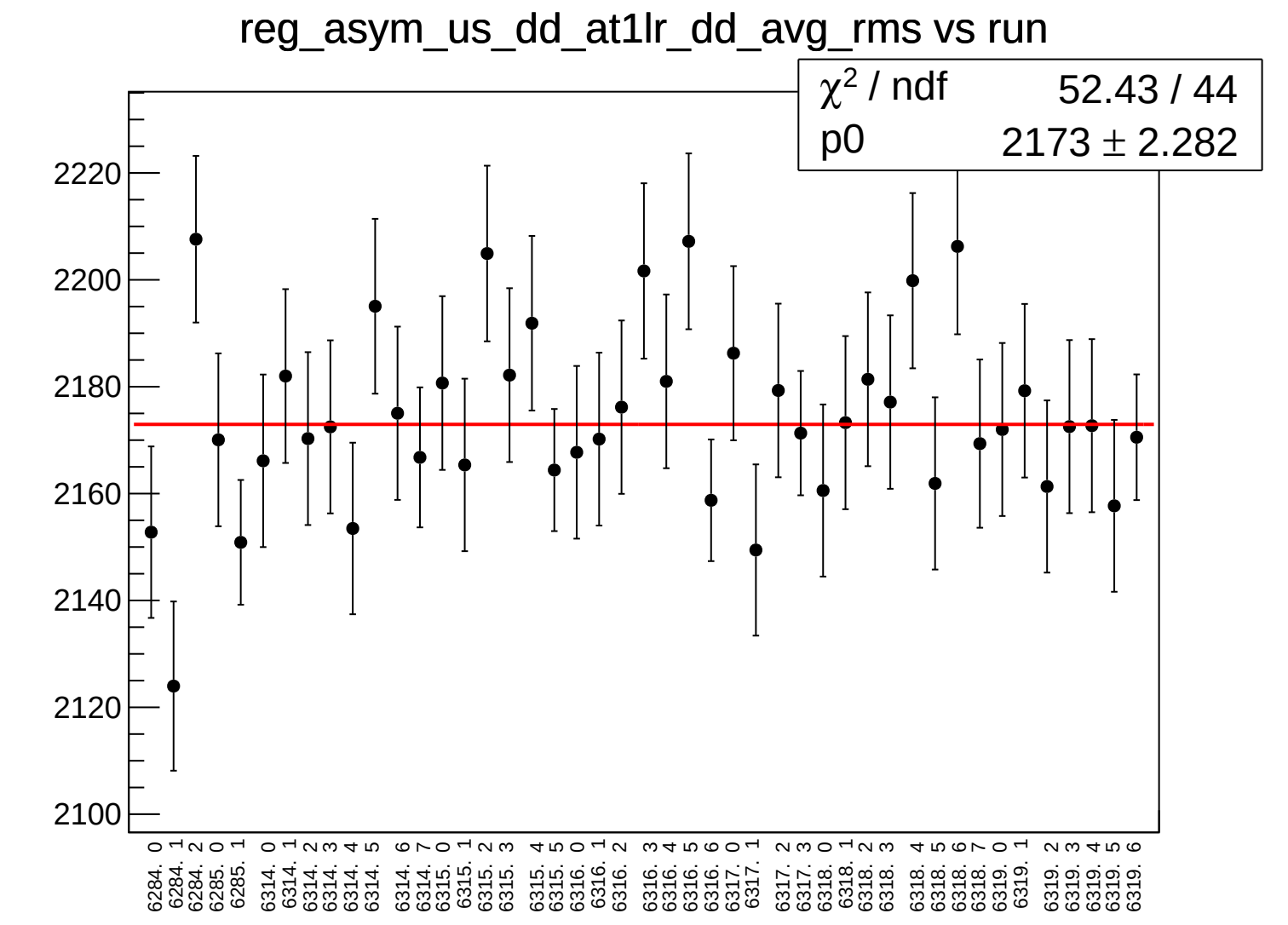

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.855e+04 / 44
p0 269.5 ± 0.2875
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

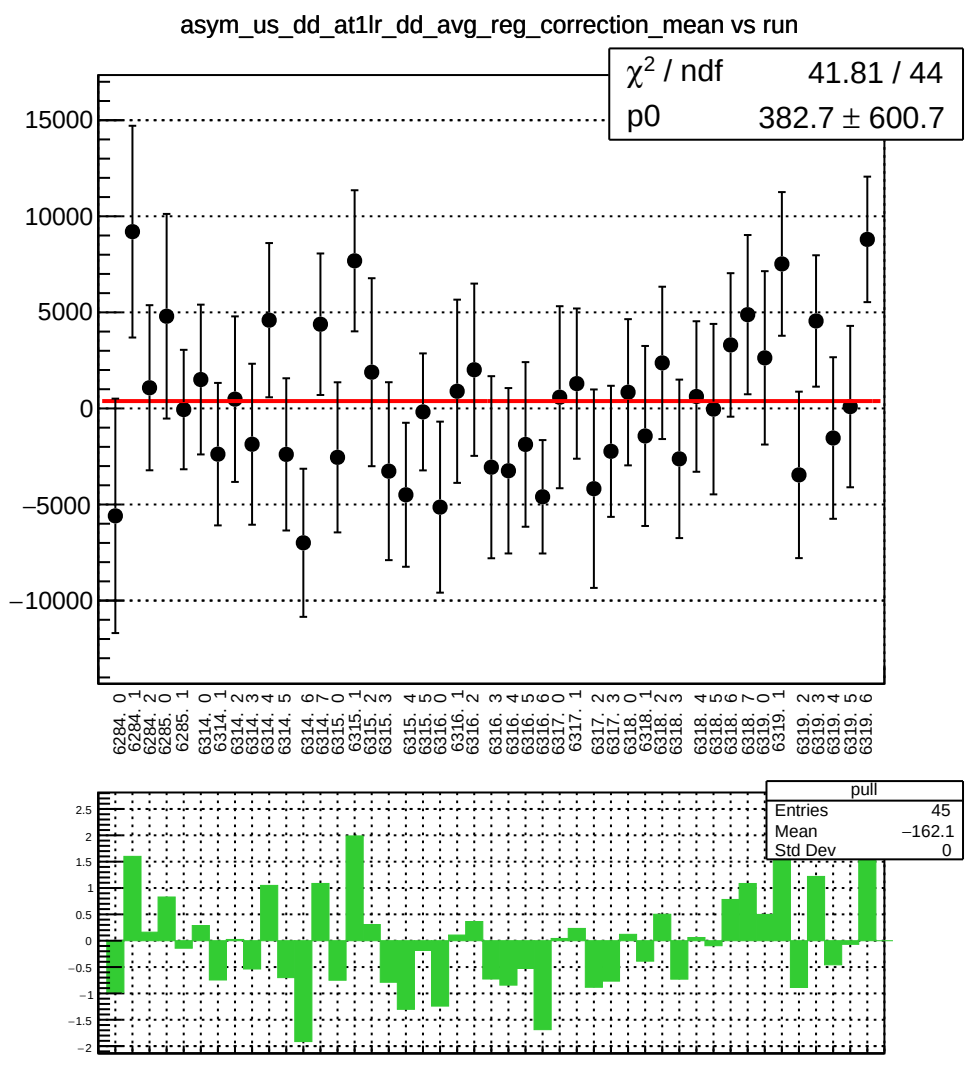

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.29 / 44
p0 −1.99e−13 ± 3.425e−13
80
60
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −9.667
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.05554
Std Dev 0.9446
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

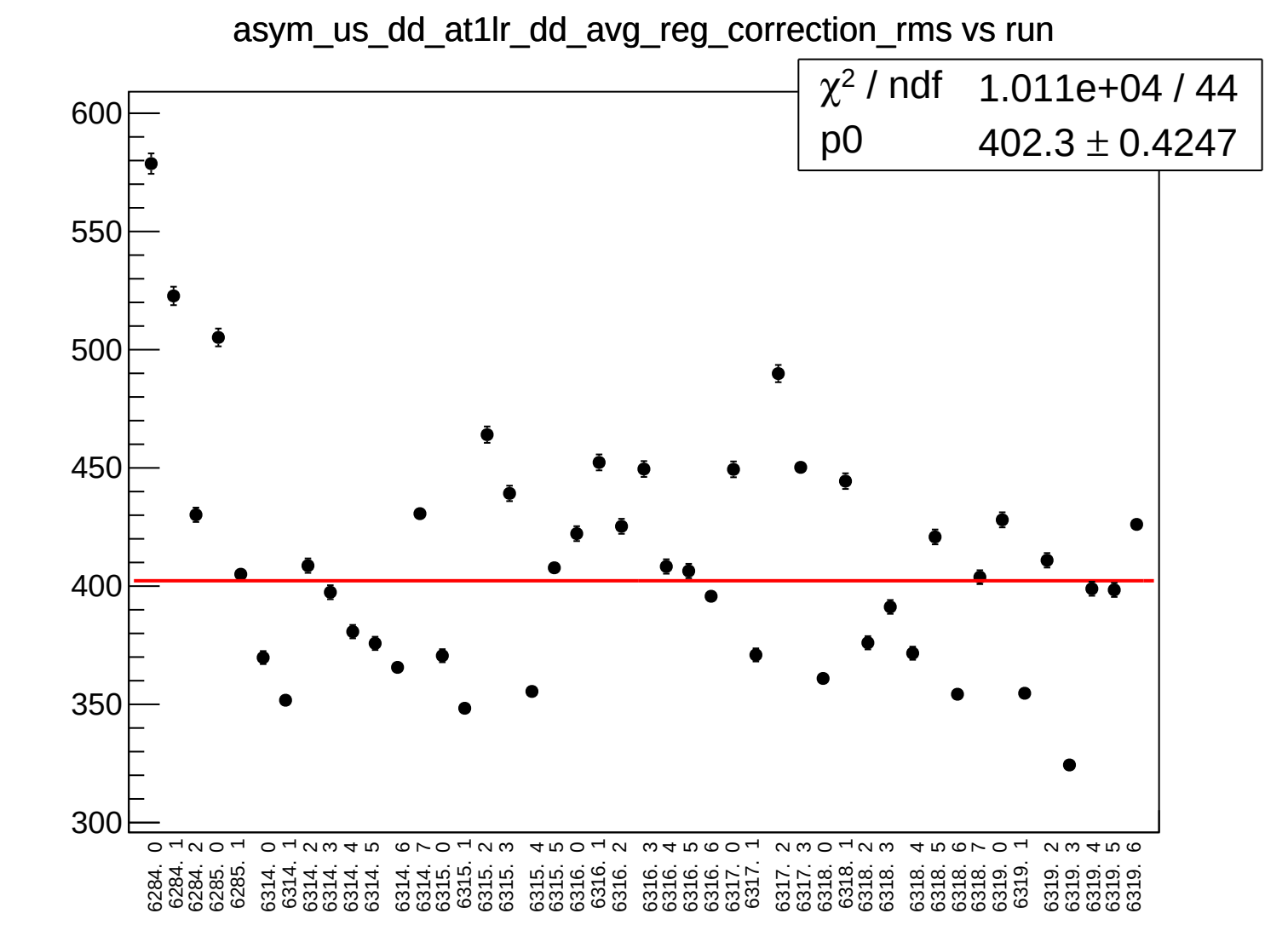

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.86e+05 / 44
p0 1.748e−10 ± 2.422e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

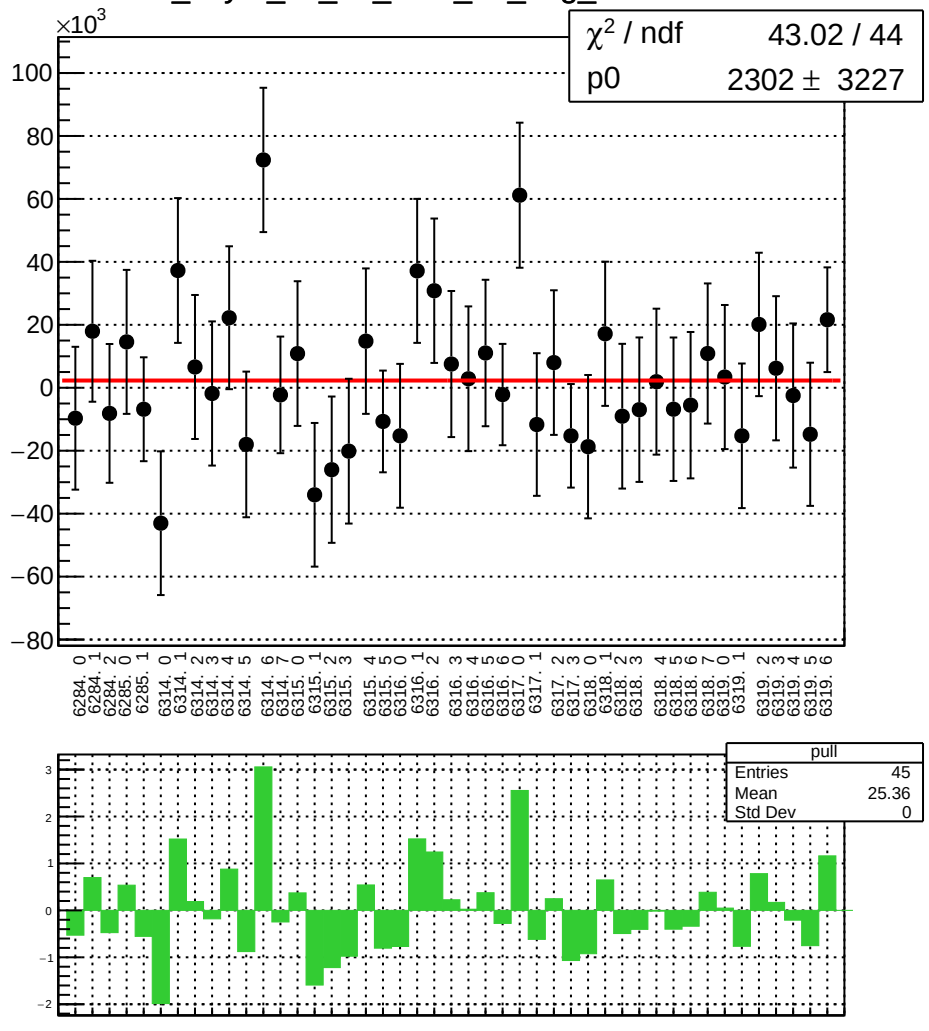

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 43.02 / 44
p0 2302 ± 3227
pull
Entries 45
Mean 25.35
Std Dev 0

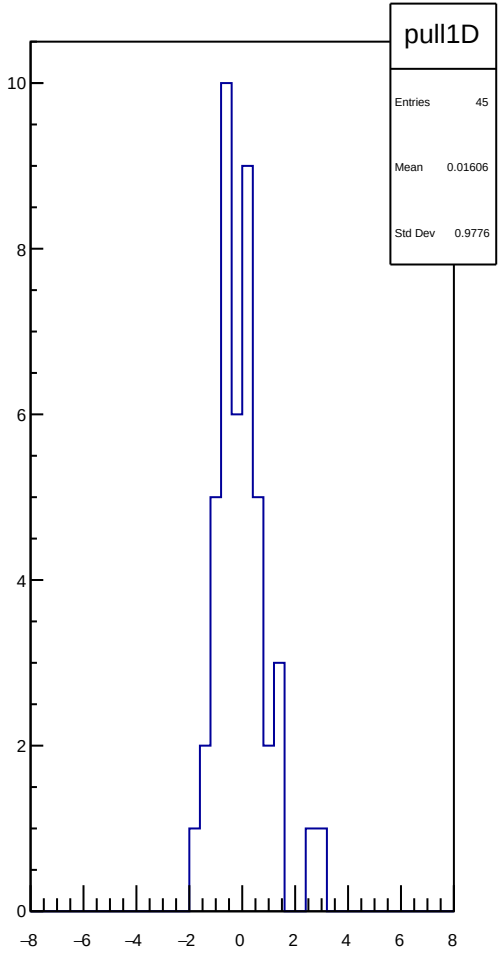

pull1D
Entries 45
Mean 0.01606
Std Dev 0.9776

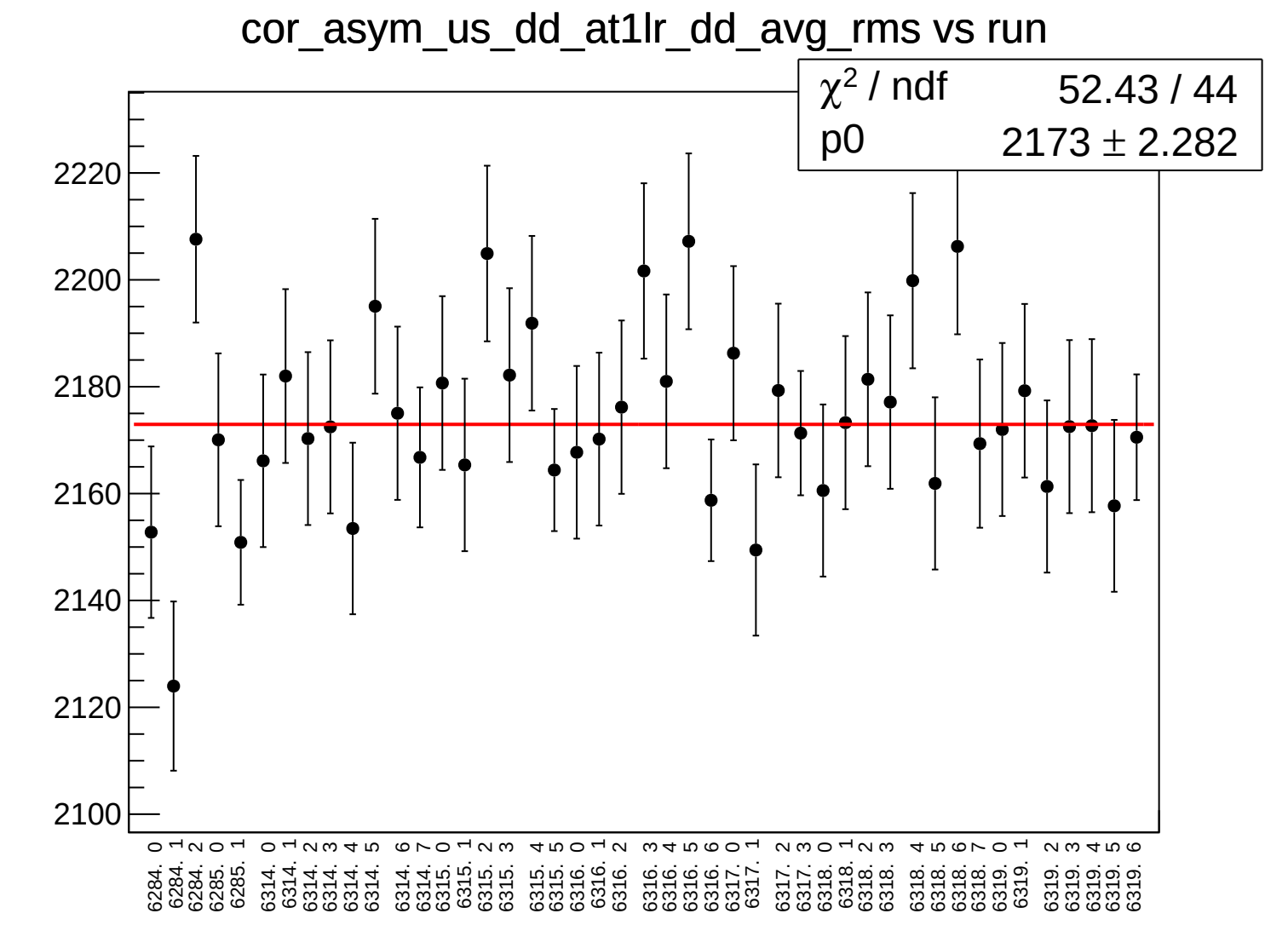

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.43 / 44
p0 2173 ± 2.282
2220
2200
2180
2160
2140
2120
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

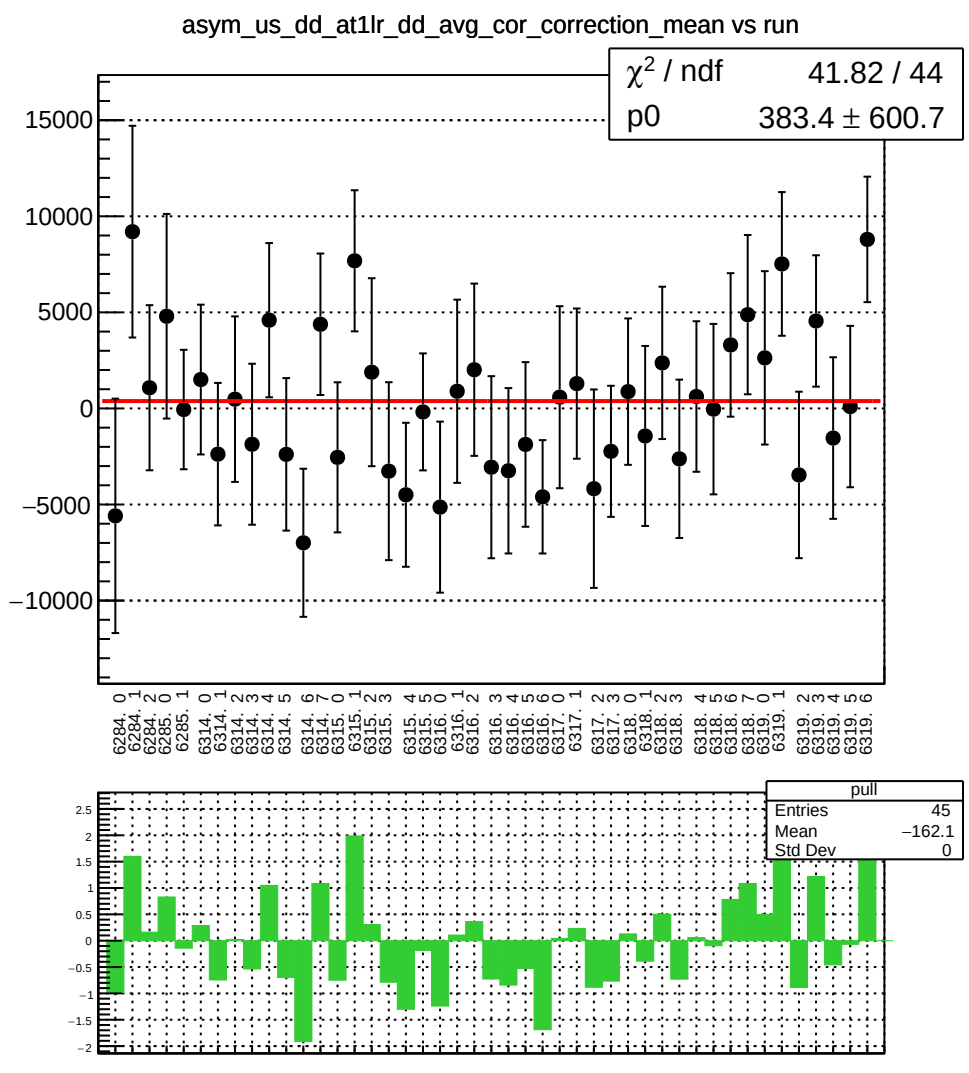

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 41.81 / 44
p0 382.7 ± 600.7
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −162.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01121
Std Dev 0.9639
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

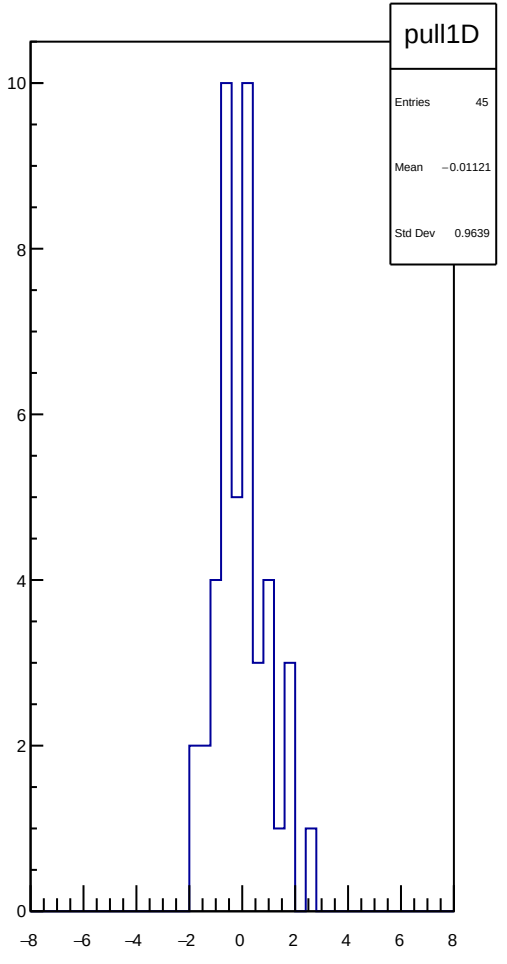

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.011e+04 / 44
p0 402.3 ± 0.4247
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

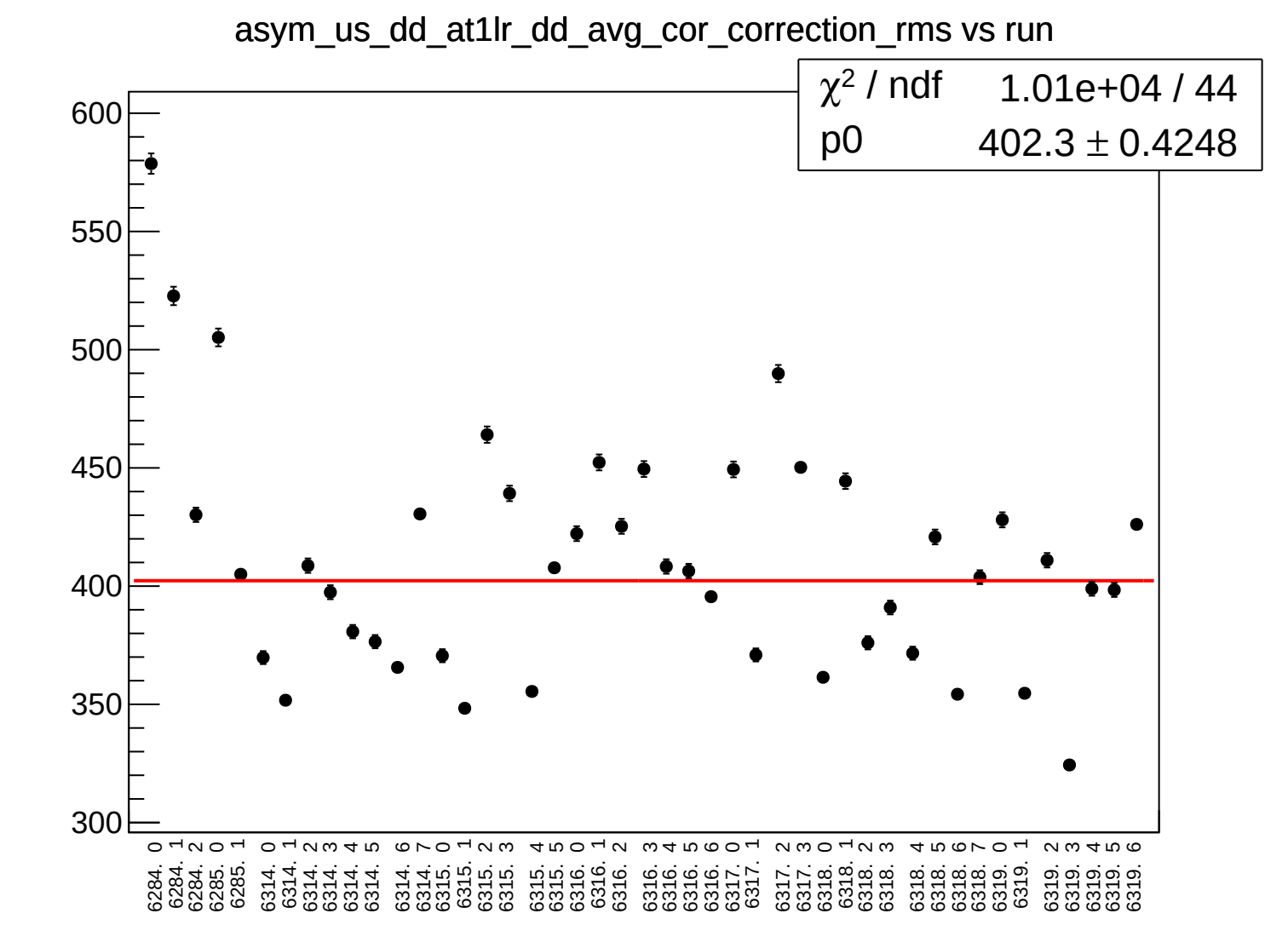

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 43.02 / 44
p0 2302 ± 3227
pull
Entries 45
Mean 25.36
Std Dev 0

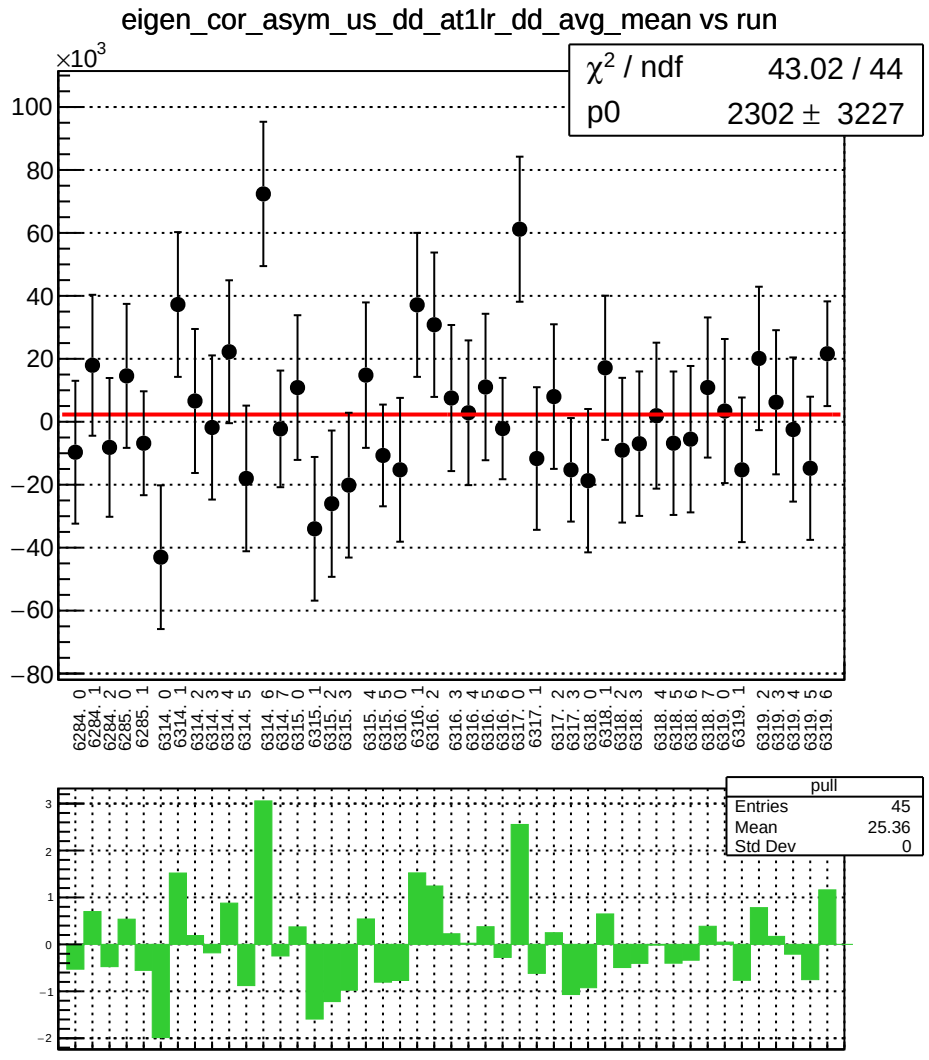

pull1D
Entries 45
Mean 0.01606
Std Dev 0.9776

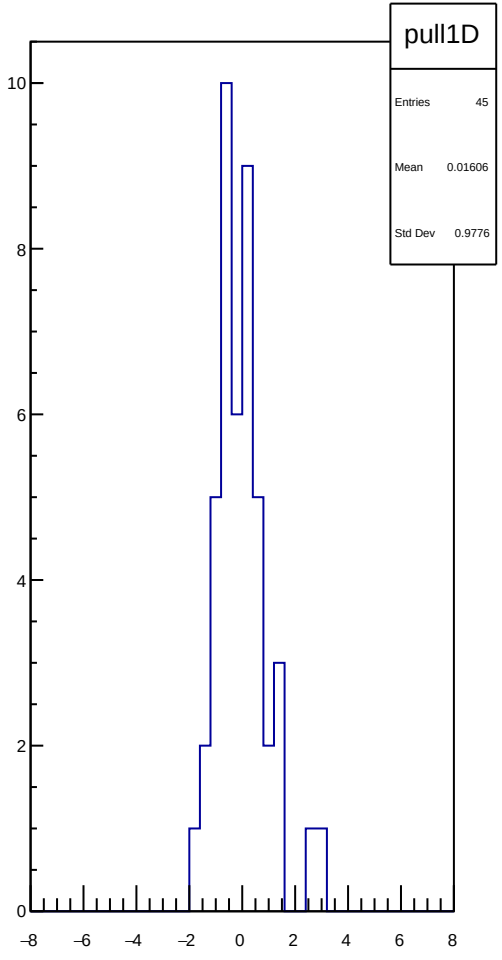

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.43 / 44
p0 2173 ± 2.282
2220
2200
2180
2160
2140
2120
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

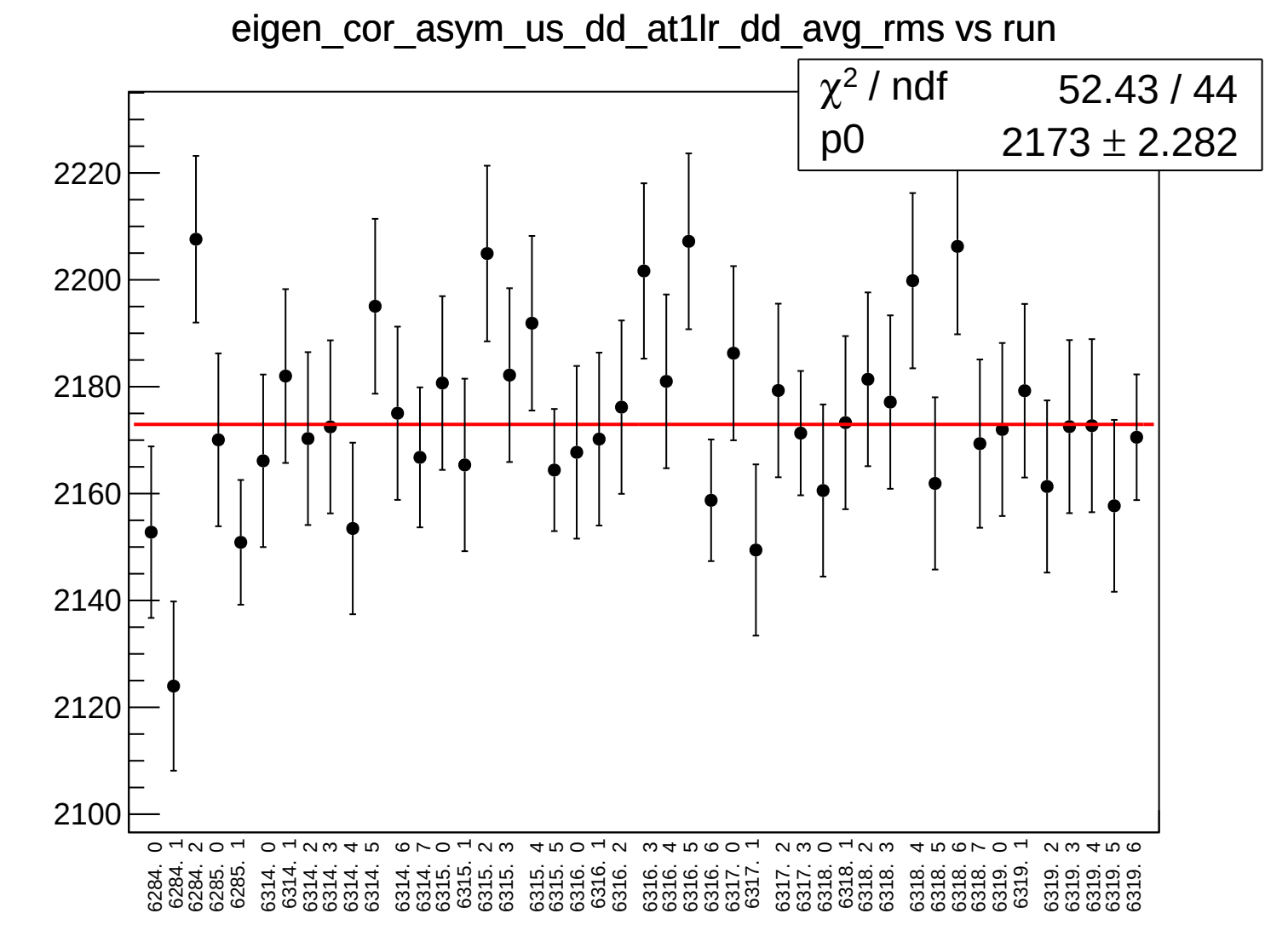

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 41.82 / 44
p0 383.4 ± 600.7
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −162.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

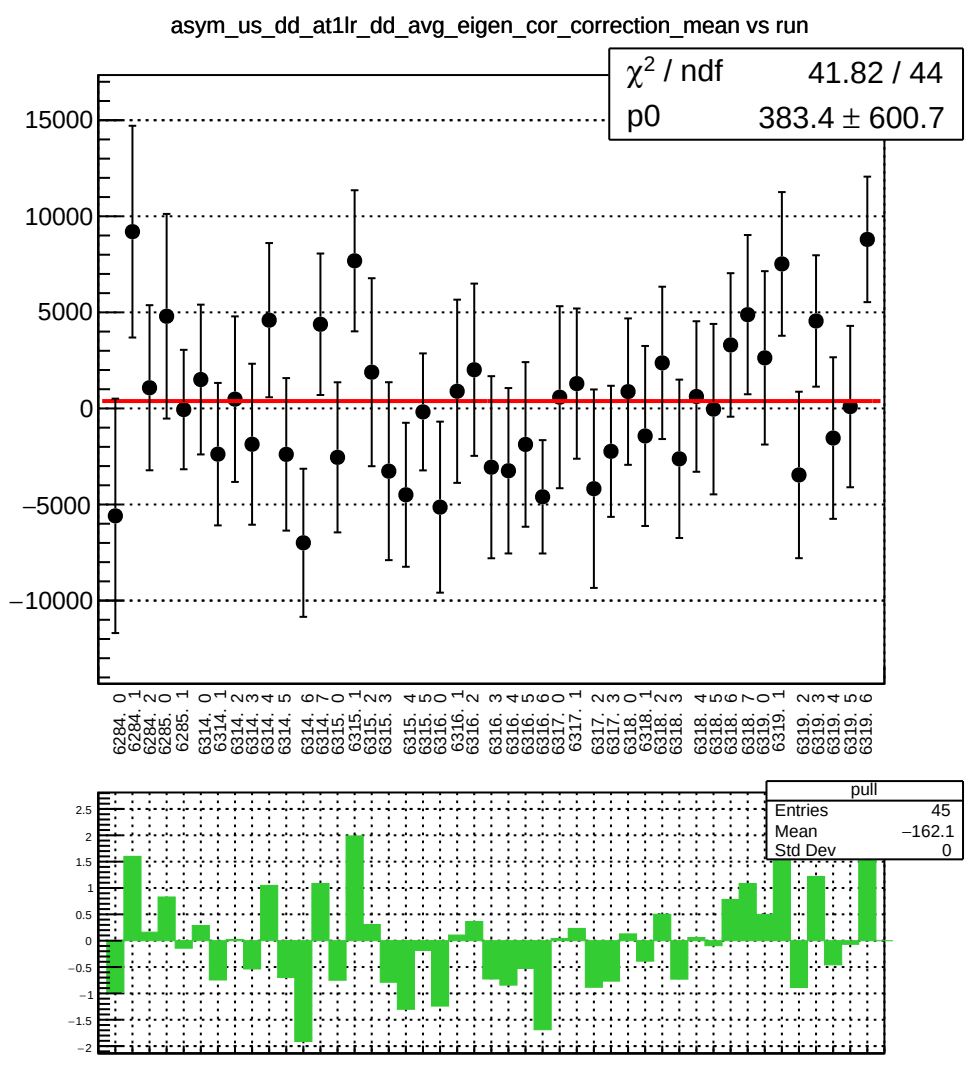

pull1D
Entries 45
Mean −0.01121
Std Dev 0.9639
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

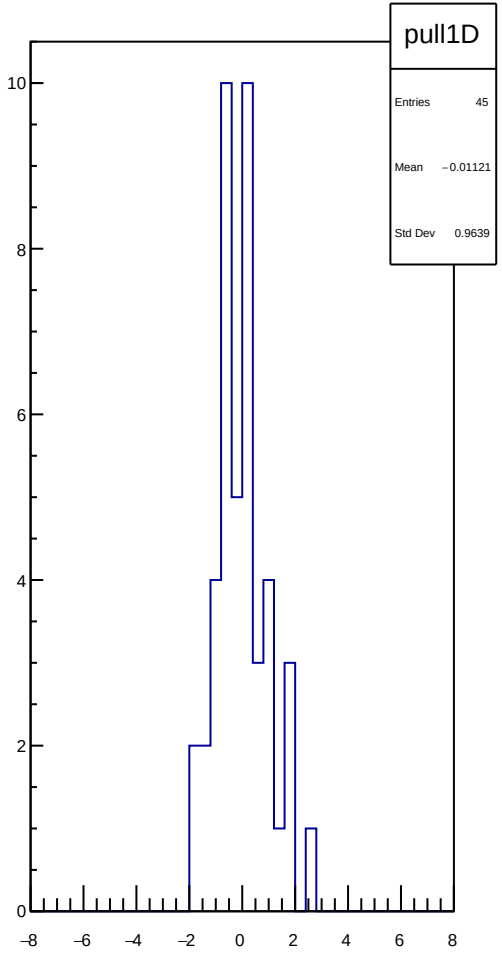

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.01e+04 / 44
p0 402.3 ± 0.4248
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

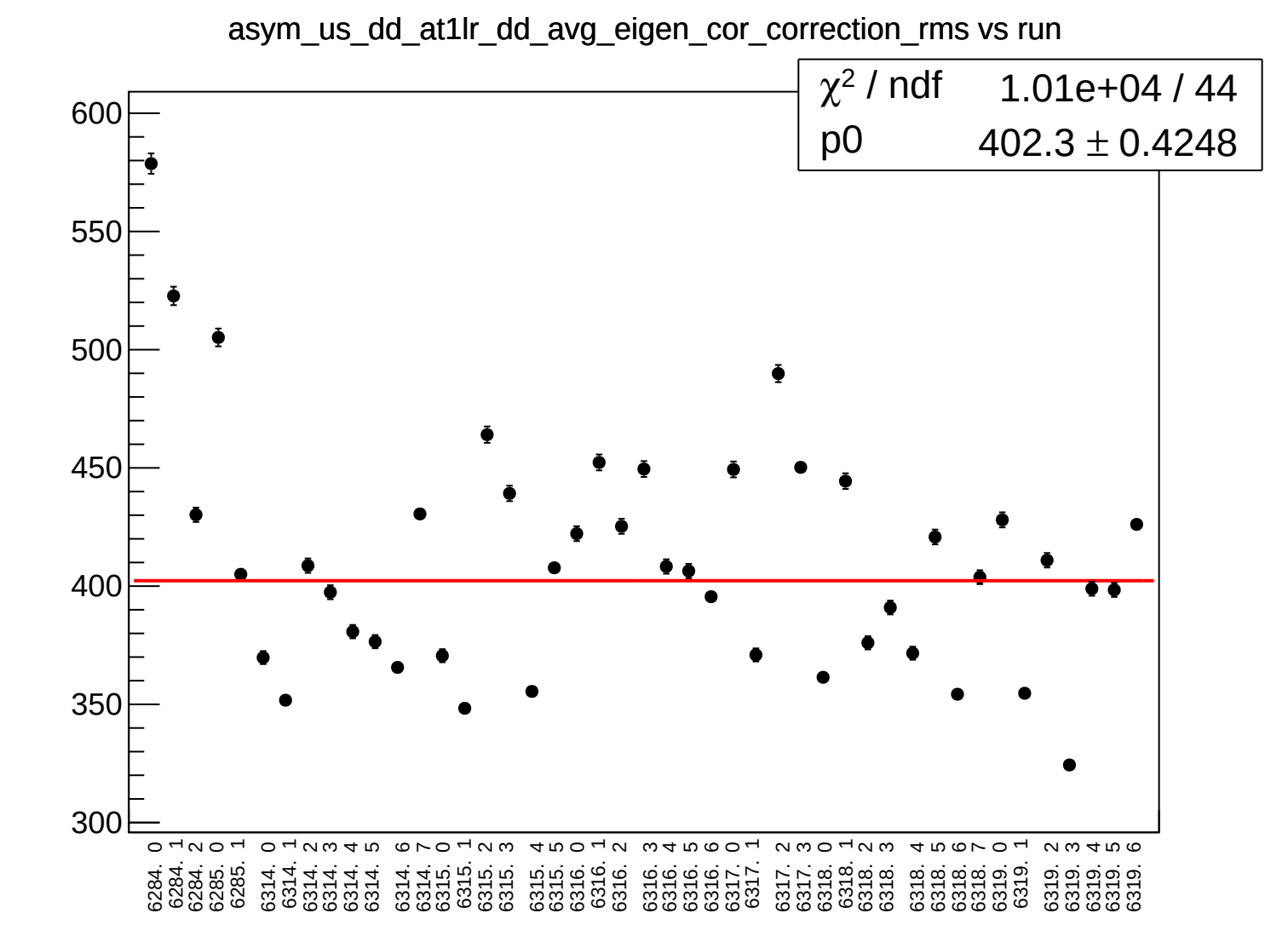

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 43.02 / 44
p0 2302 ± 3227
pull
Entries 45
Mean 25.36
Std Dev 0

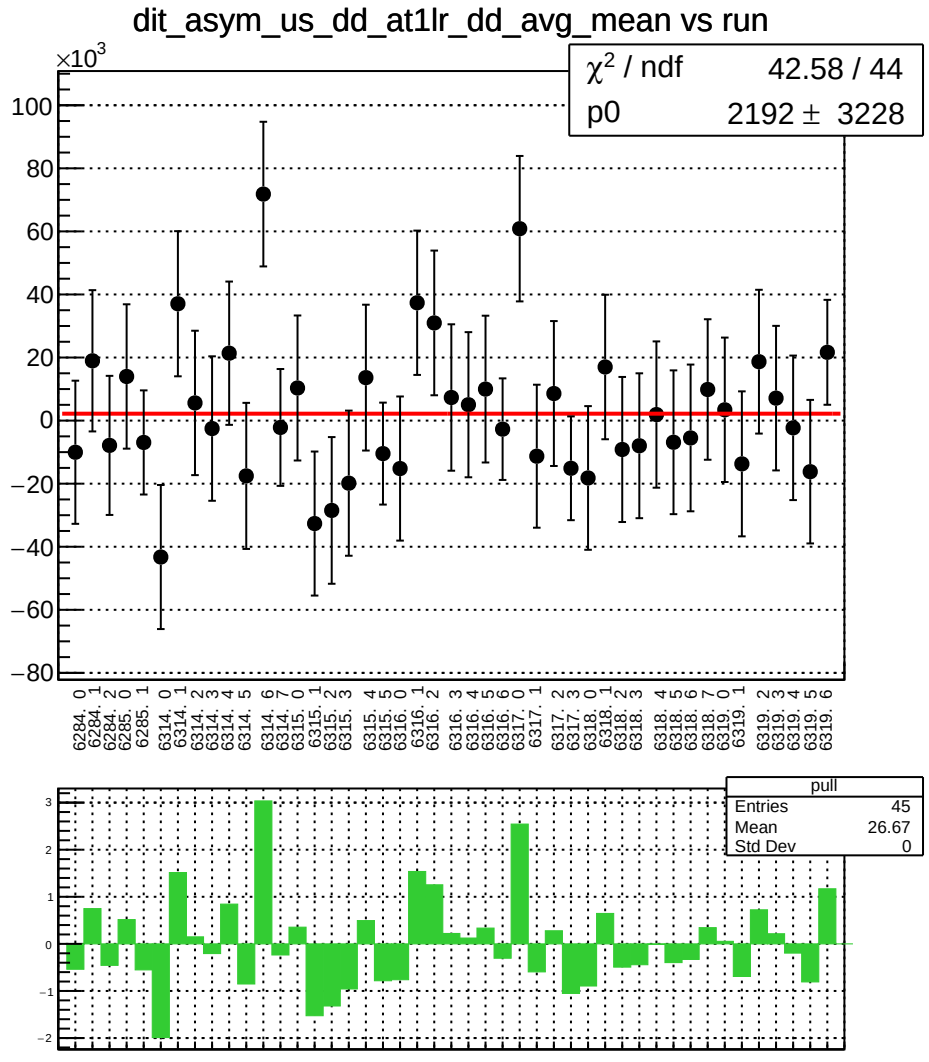

pull1D
Entries 45
Mean 0.01606
Std Dev 0.9776

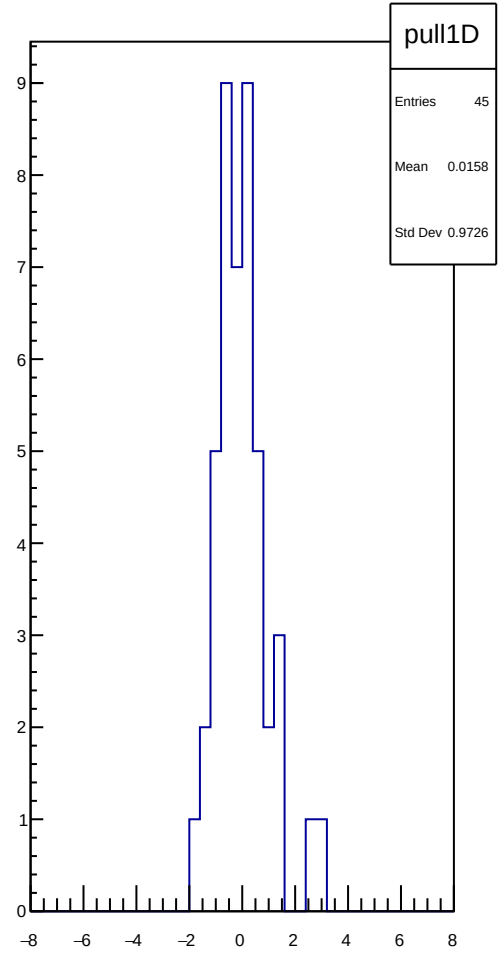

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.43 / 44
p0 2173 ± 2.282
2220
2200
2180
2160
2140
2120
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

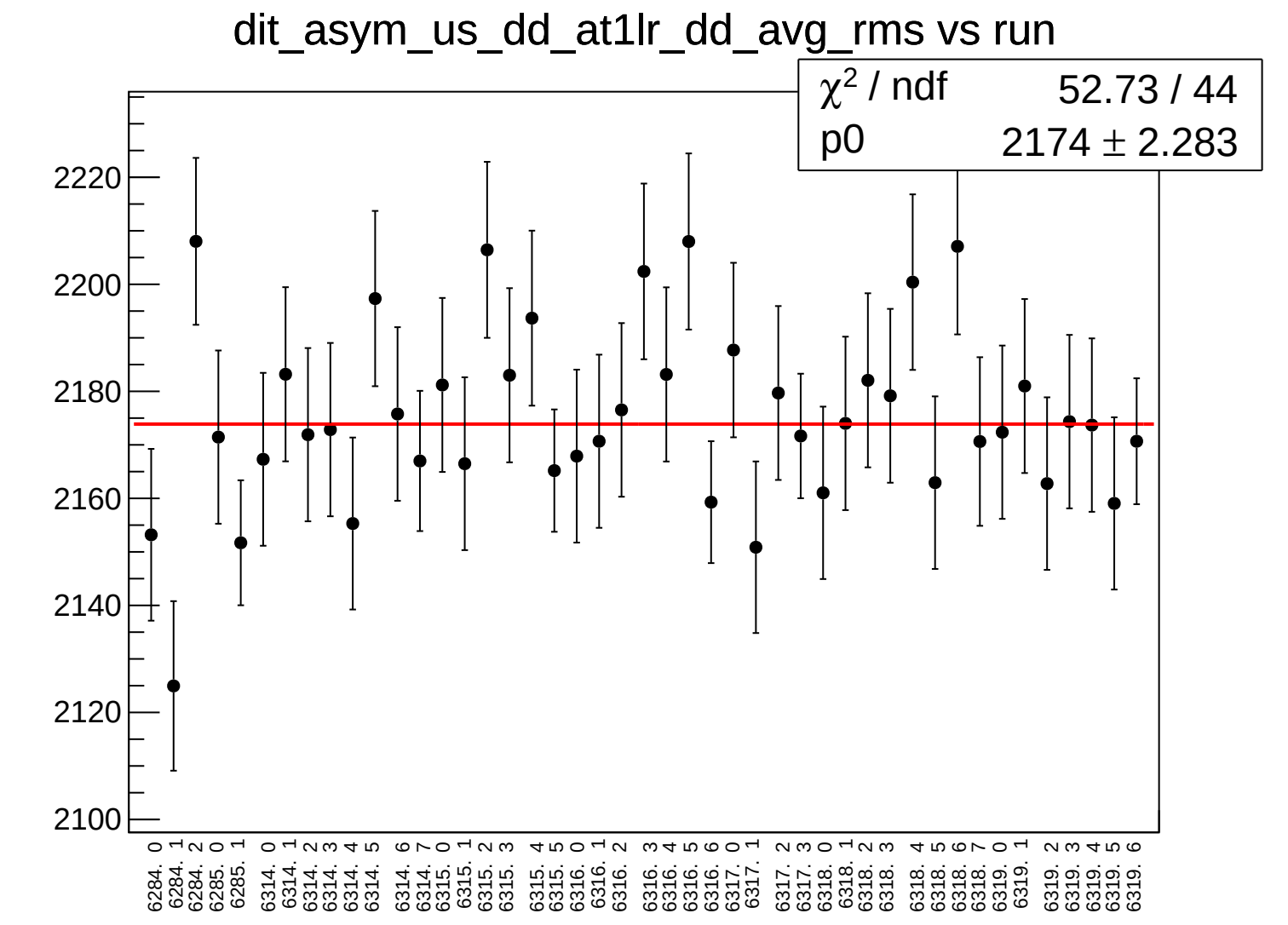

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.82 / 44
p0 383.4 ± 600.7
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −162.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01121
Std Dev 0.9639
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.01e+04 / 44
p0 402.3 ± 0.4248
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 42.58 / 44
p0 2192 ± 3228
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0158
Std Dev 0.9726
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.73 / 44
p0 2174 ± 2.283
2220
2200
2180
2160
2140
2120
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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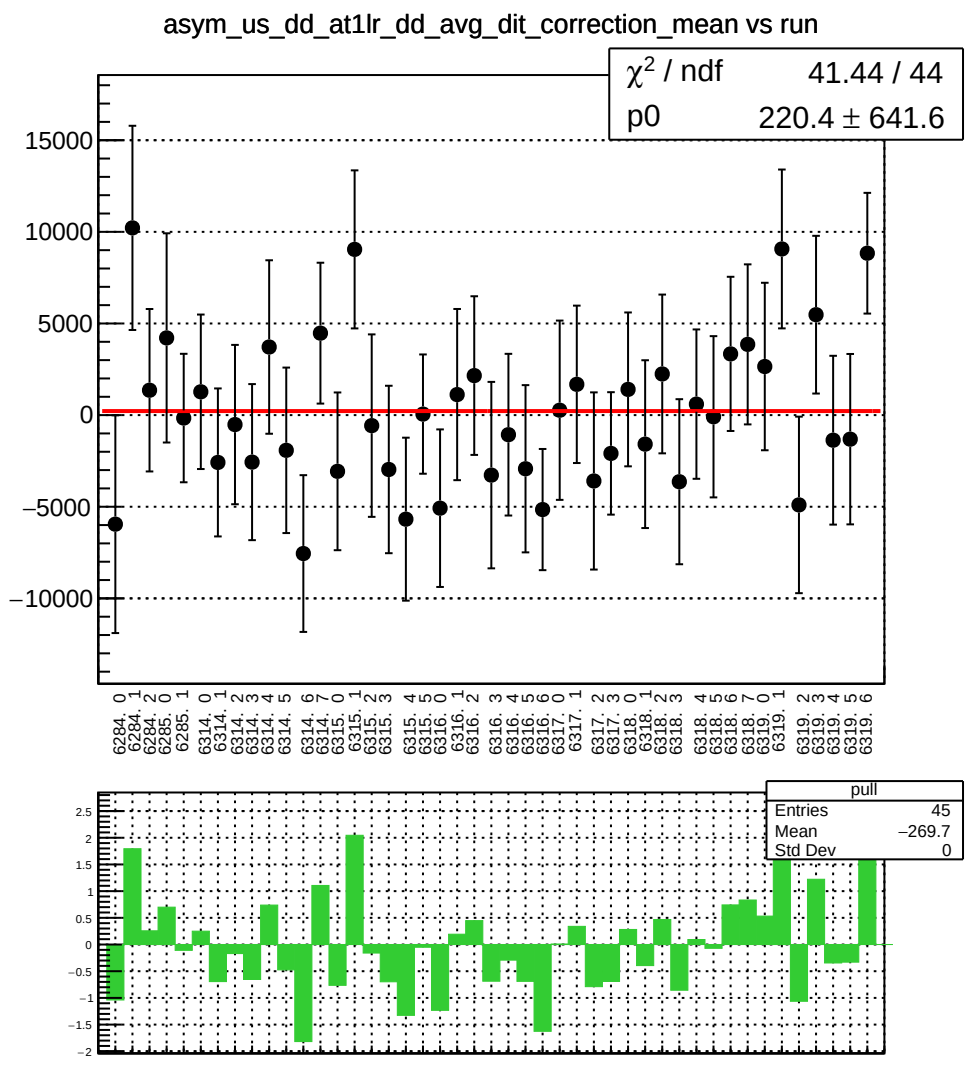
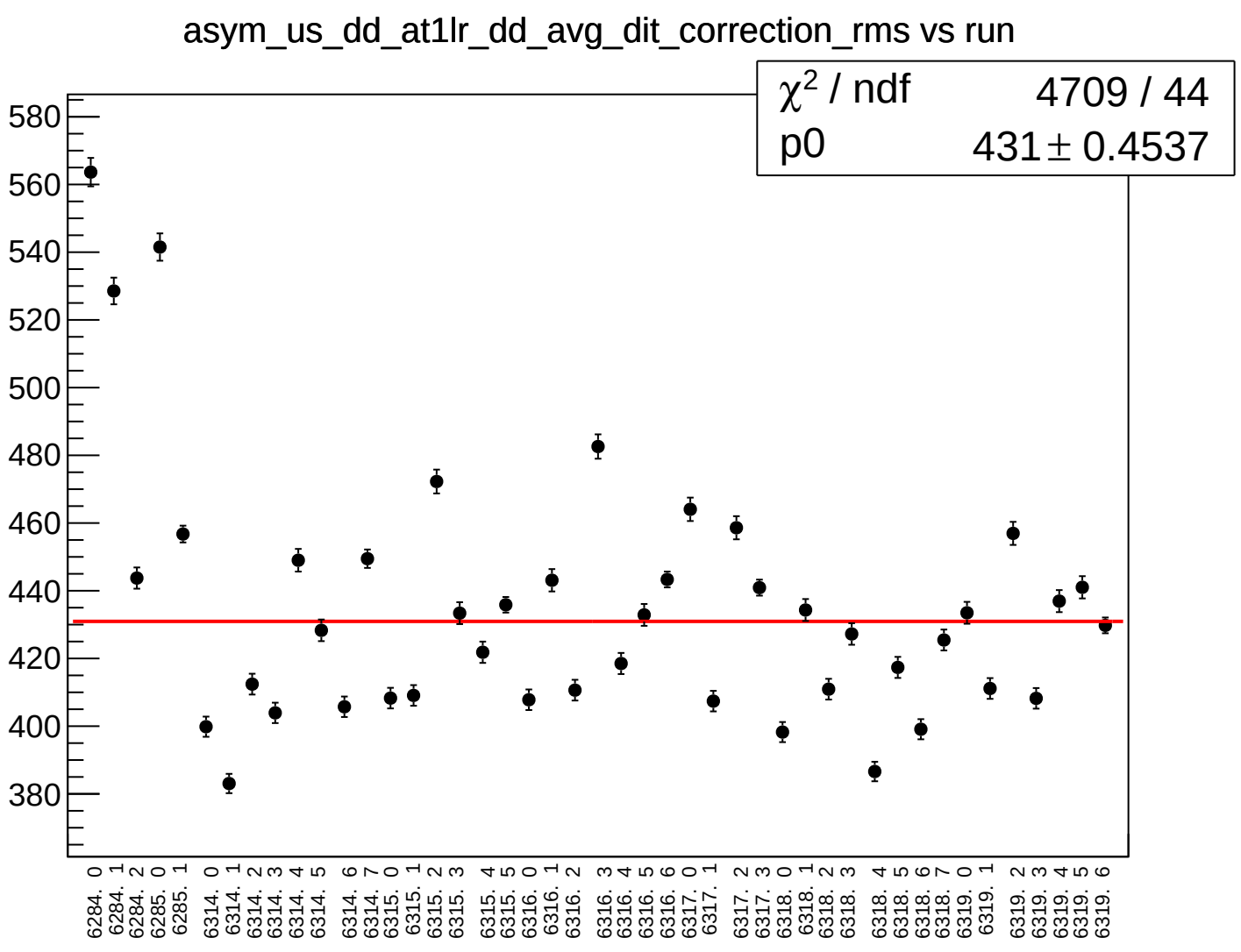
6319. 6


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 41.44 / 44
p0 220.4 ± 641.6
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −269.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.006958
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4709 / 44
p0 431 ± 0.4537
580
560
540
520
500
480
460
440
420
400
380
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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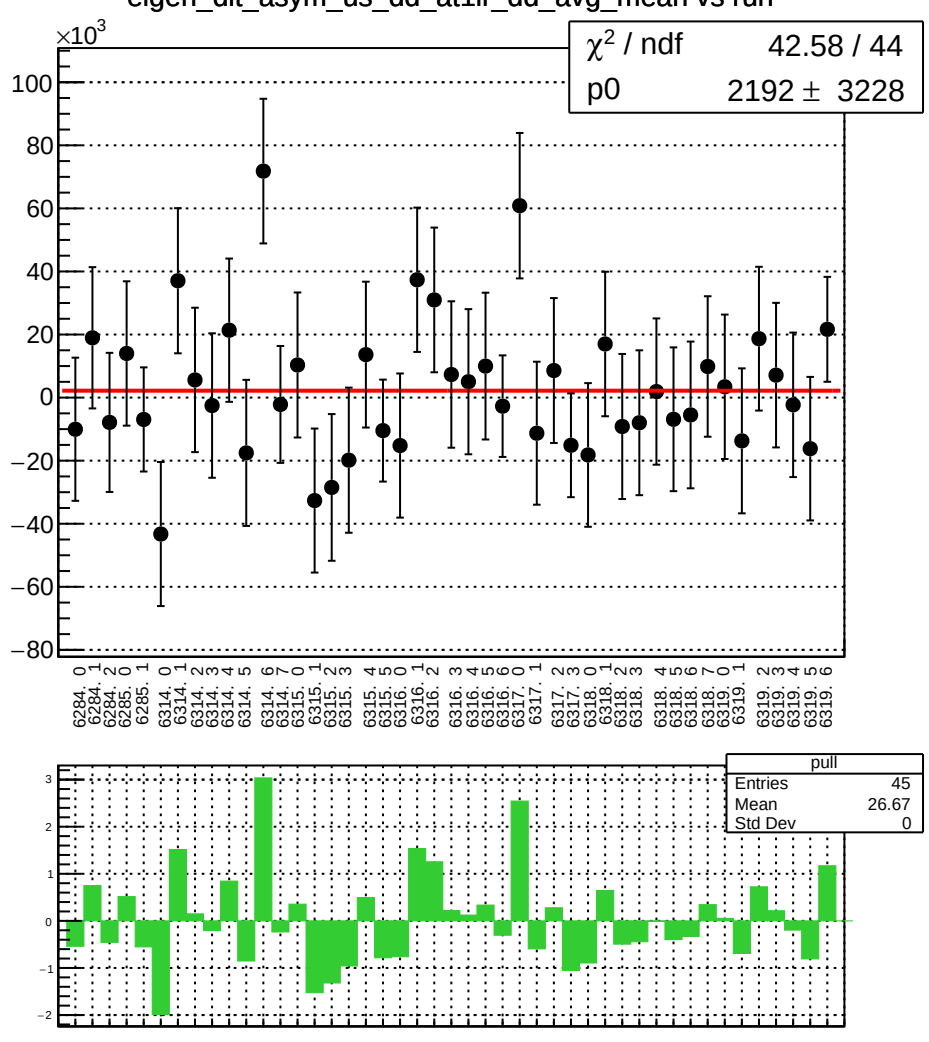
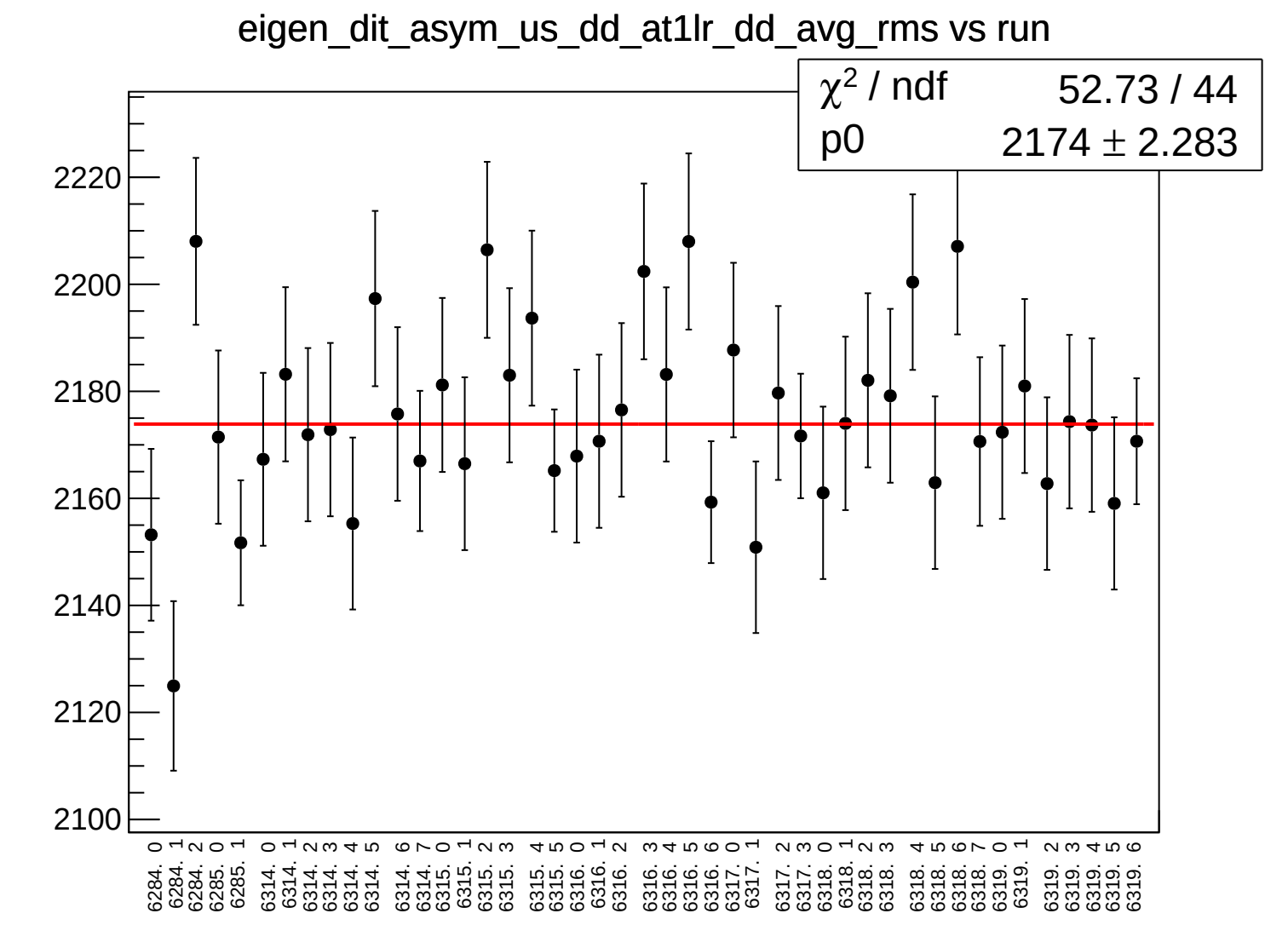
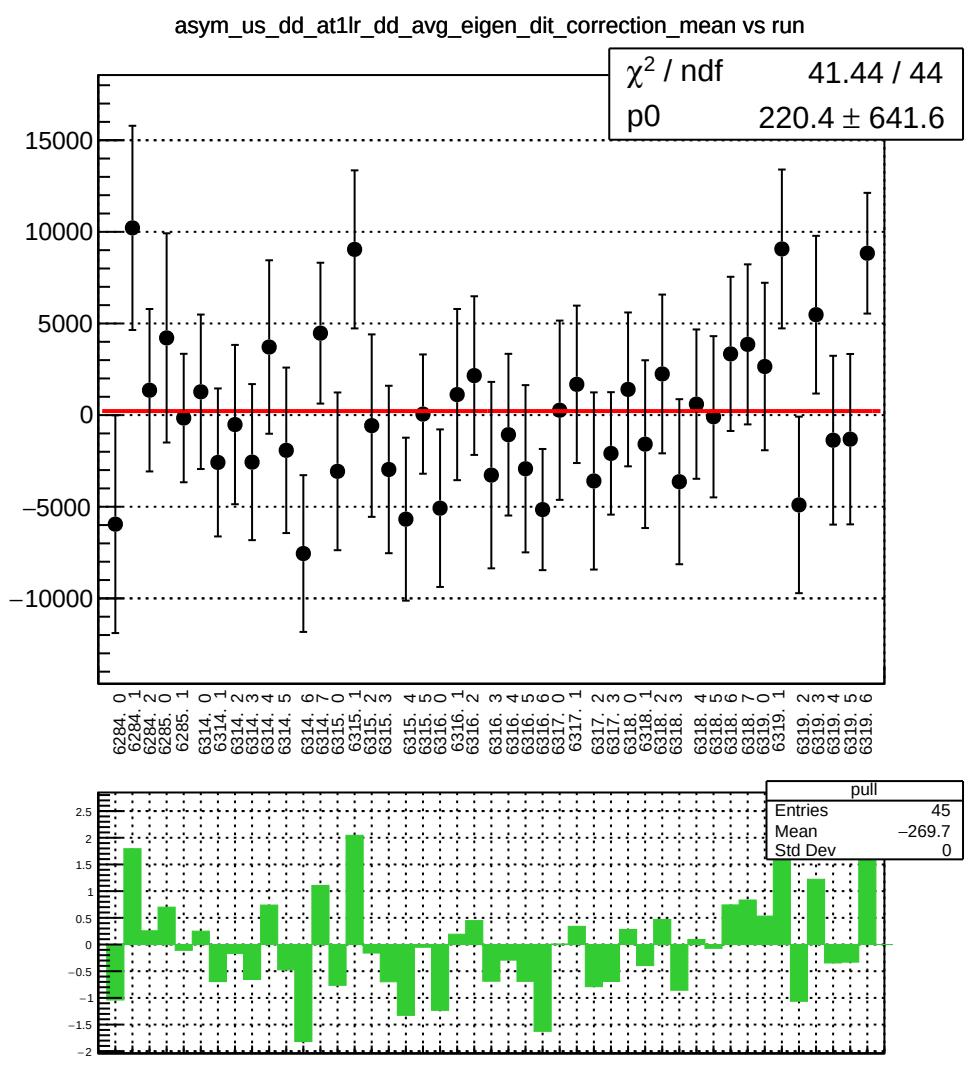
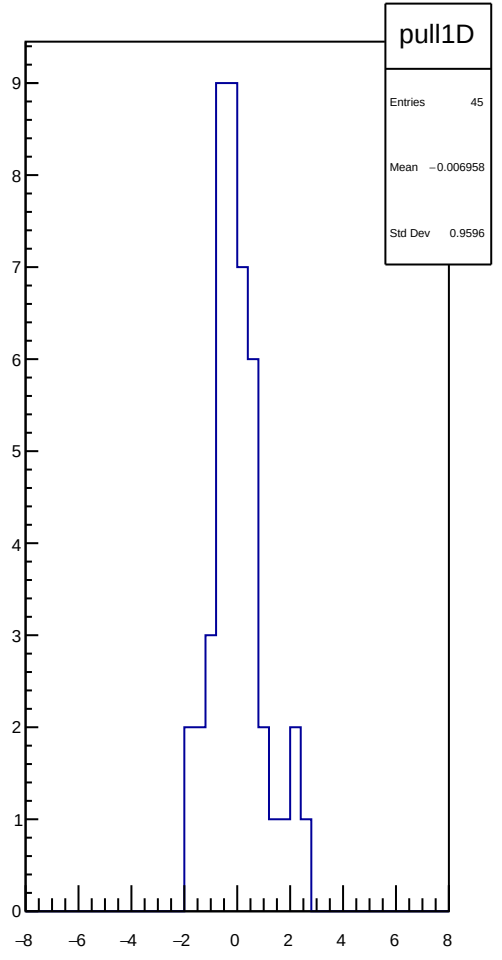
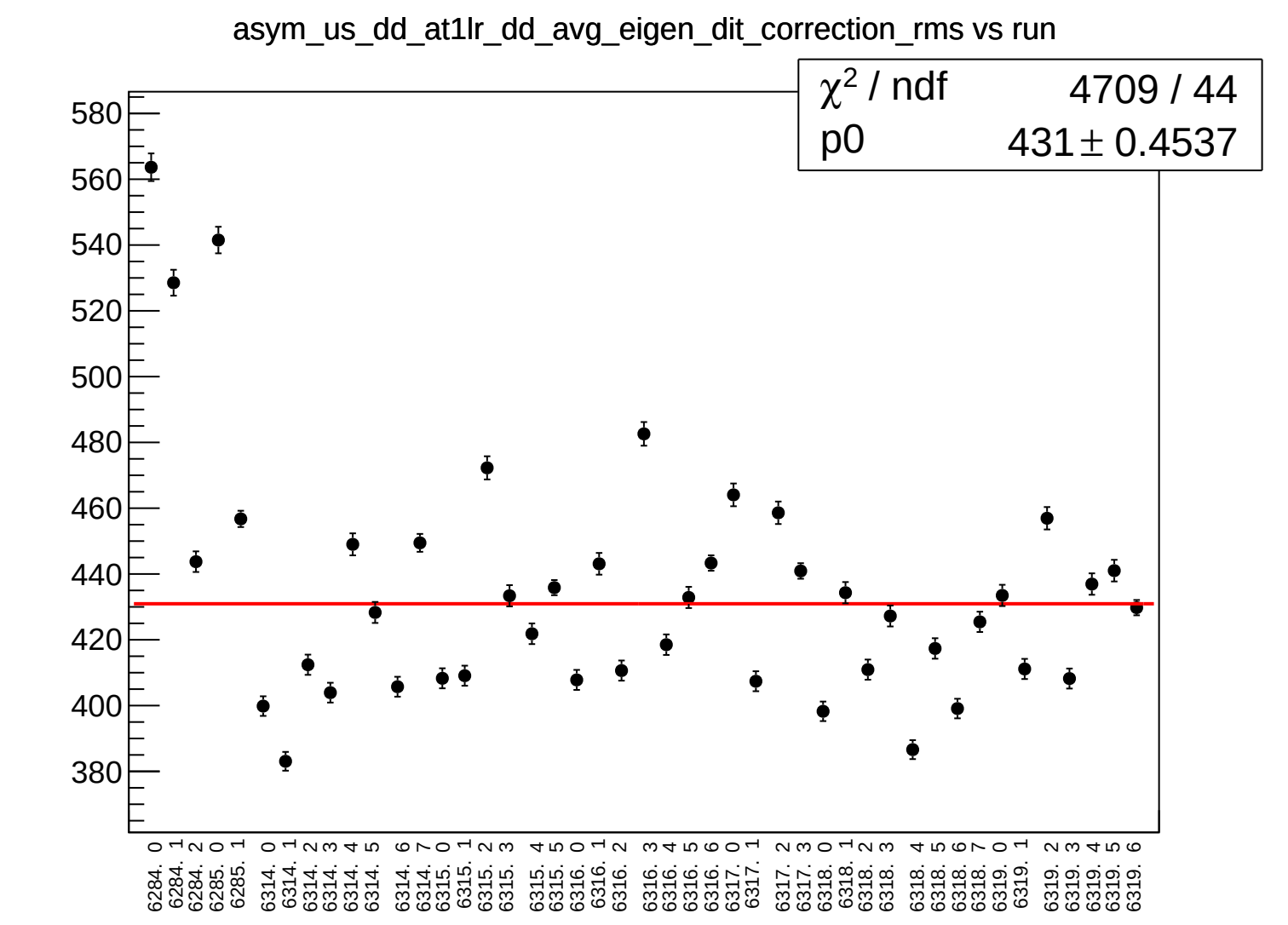
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 42.58 / 44
p0 2192 ± 3228
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0158
Std Dev 0.9726
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.73 / 44
p0 2174 ± 2.283
2220
2200
2180
2160
2140
2120
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.44 / 44
p0 220.4 ± 641.6
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −269.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.006958
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4709 / 44
p0 431 ± 0.4537
580
560
540
520
500
480
460
440
420
400
380
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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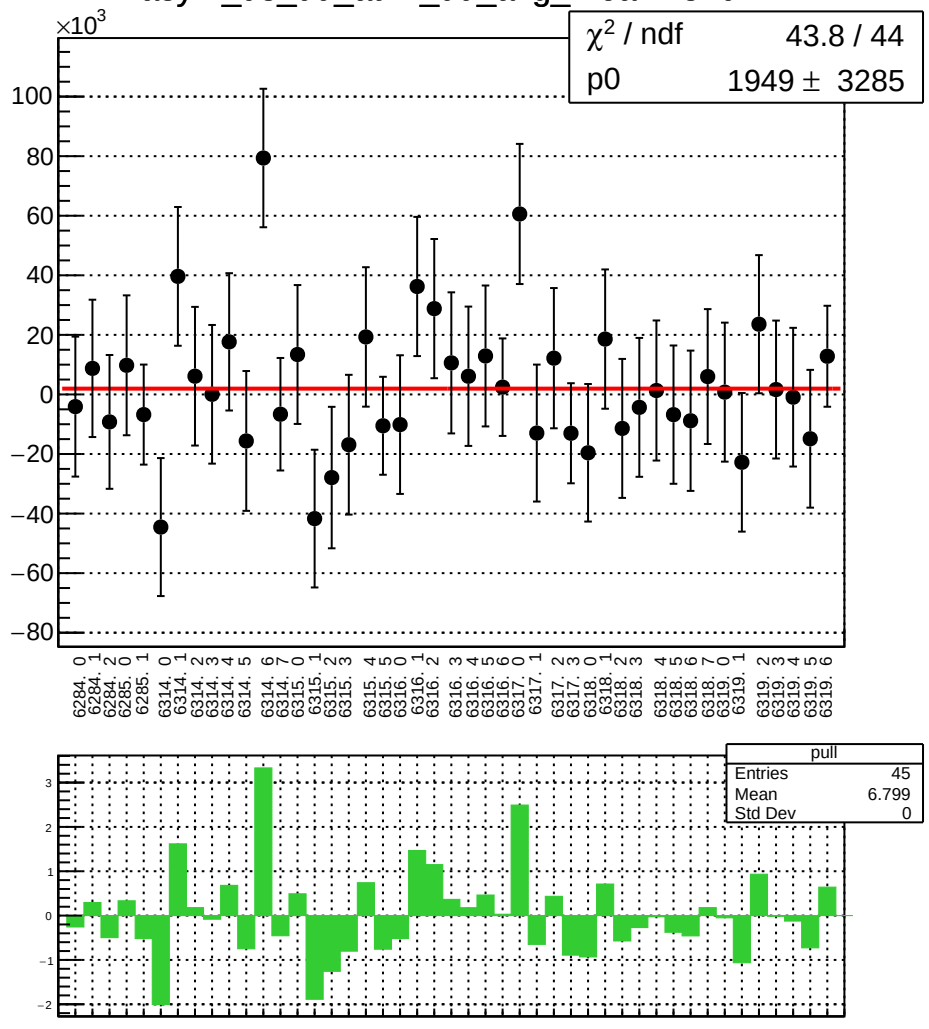
6319. 5
6319. 6


asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 43.8 / 44
p0 1949 ± 3285
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
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6316. 2
6316. 3
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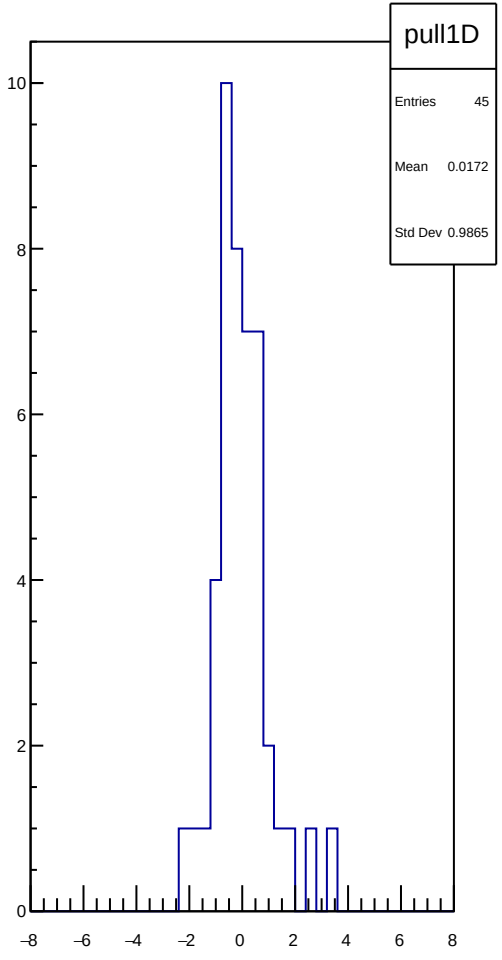
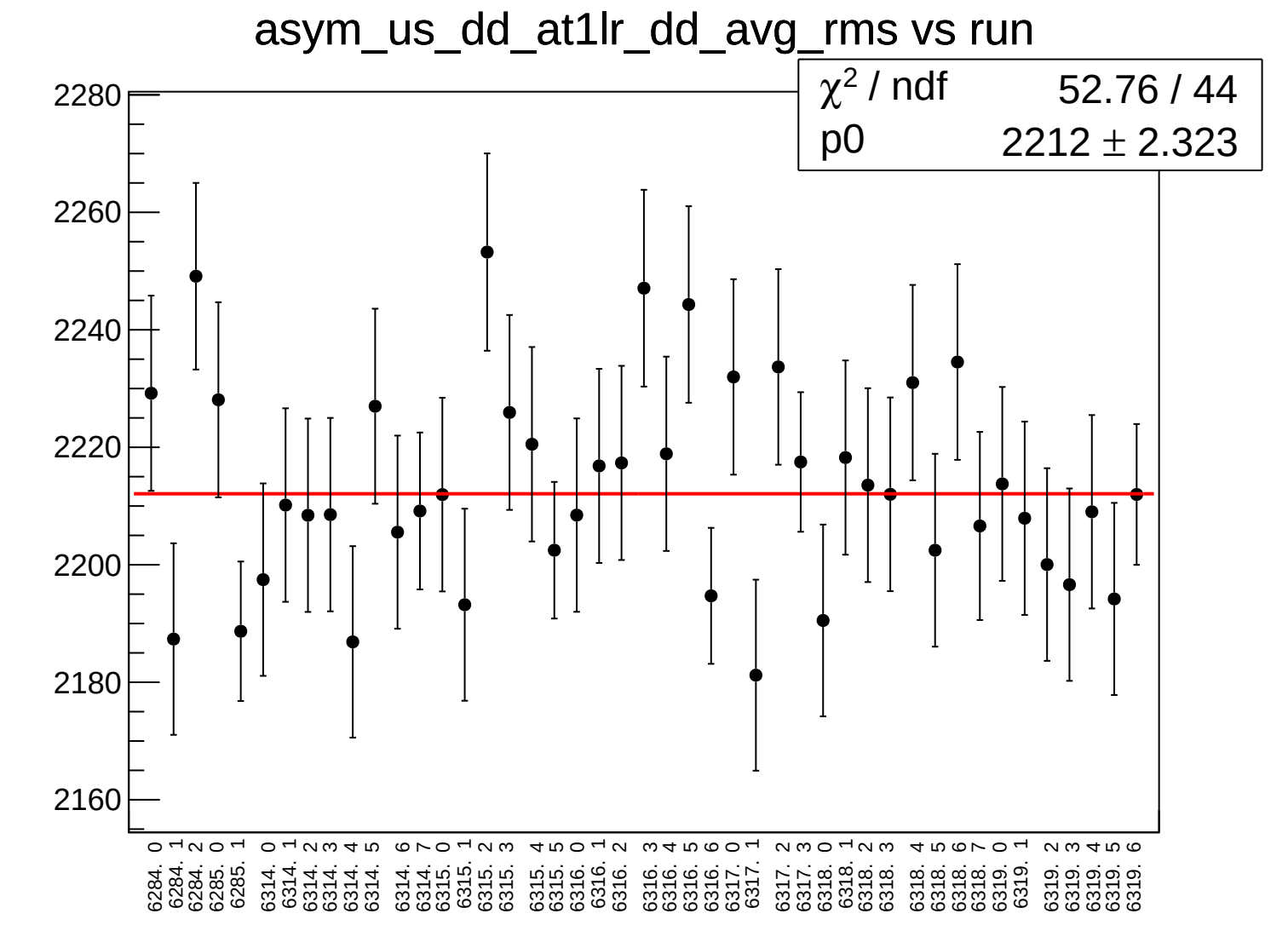
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.799
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0172
Std Dev 0.9865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 52.76 / 44
p0 2212 ± 2.323
2280
2260
2240
2220
2200
2180
2160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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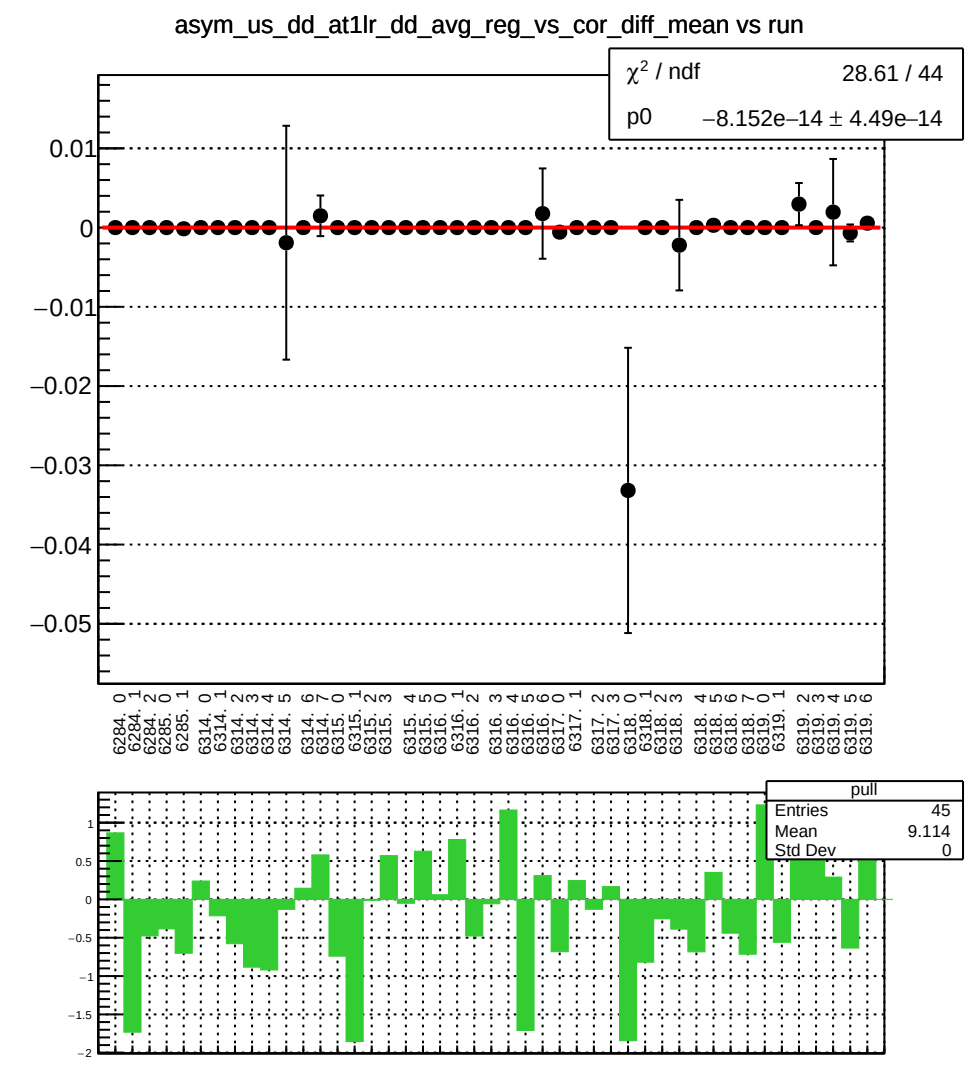
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.61 / 44
p0 −8.152e−14 ± 4.49e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
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6316. 0
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6316. 2
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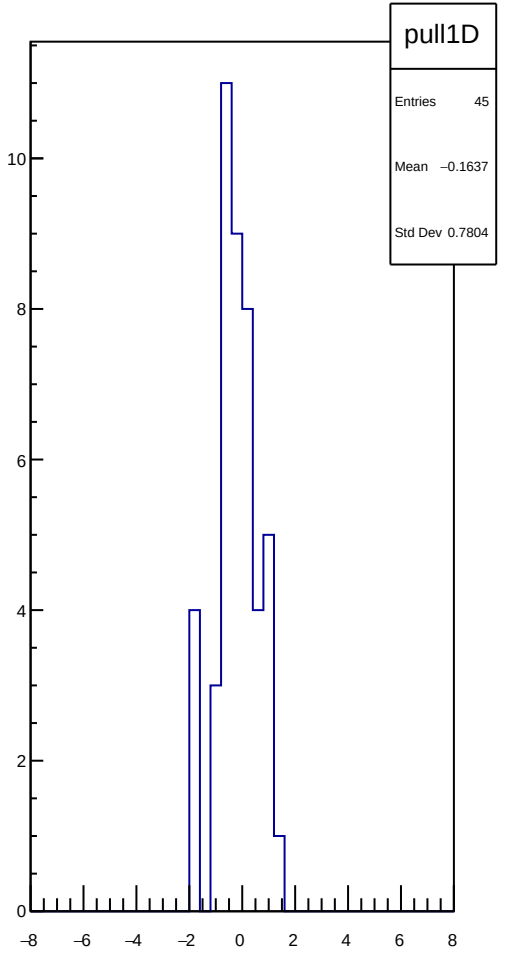
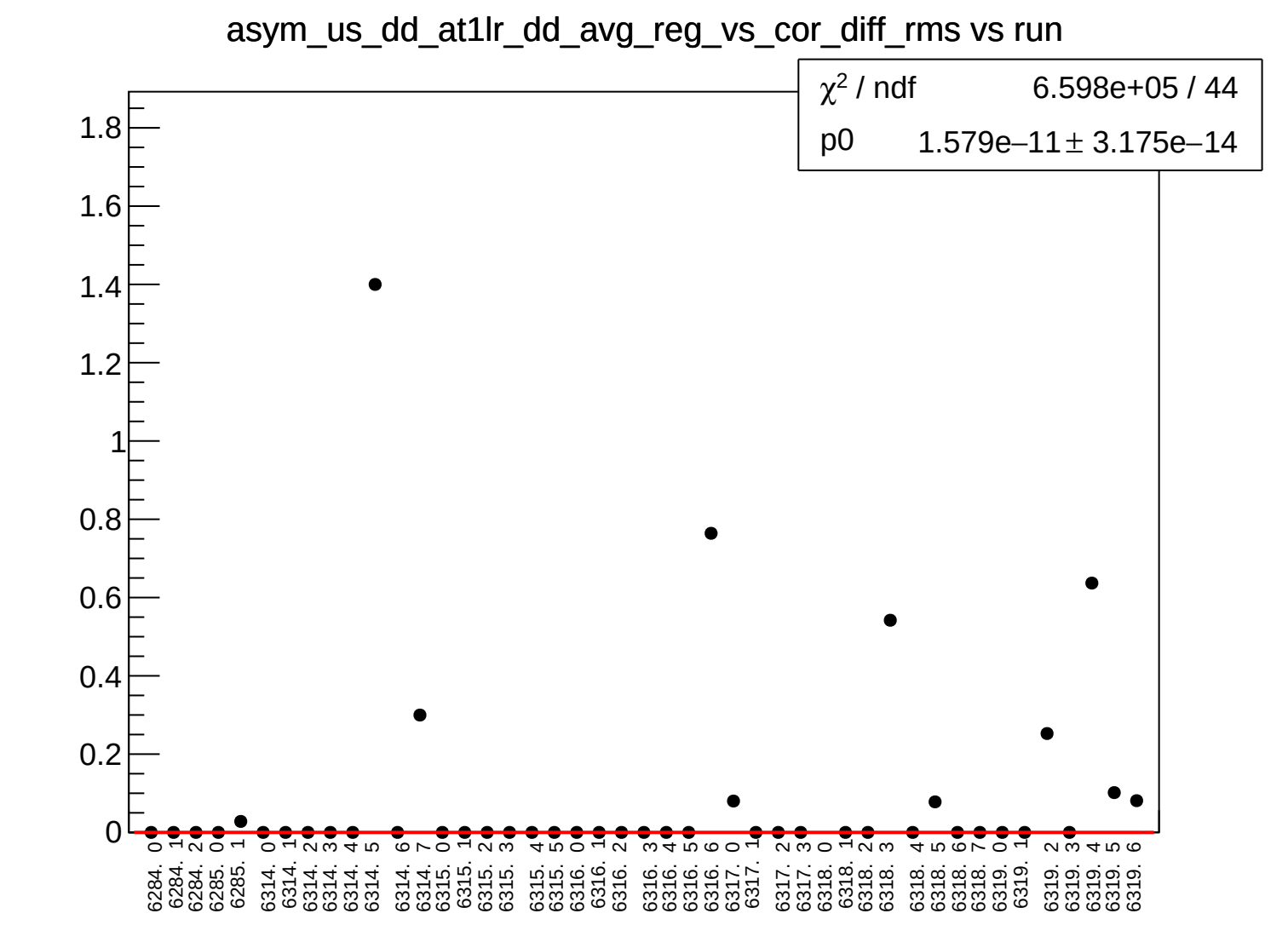
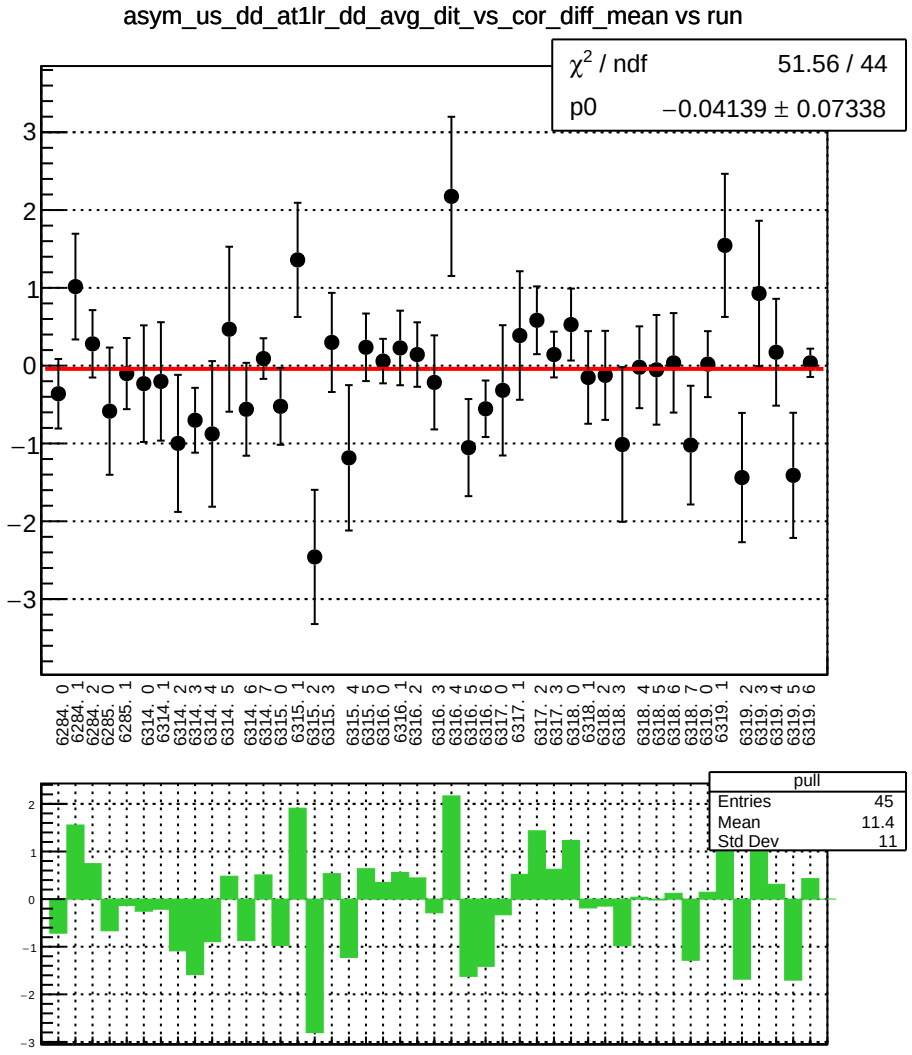
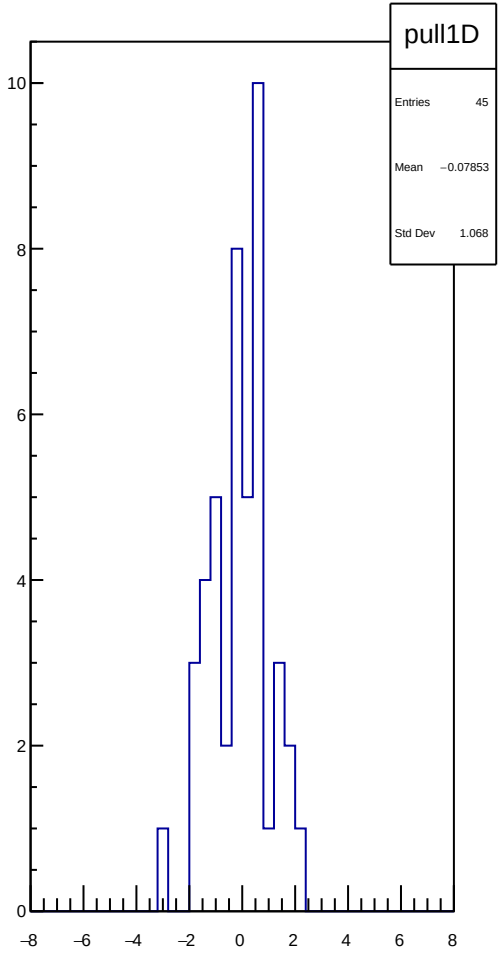
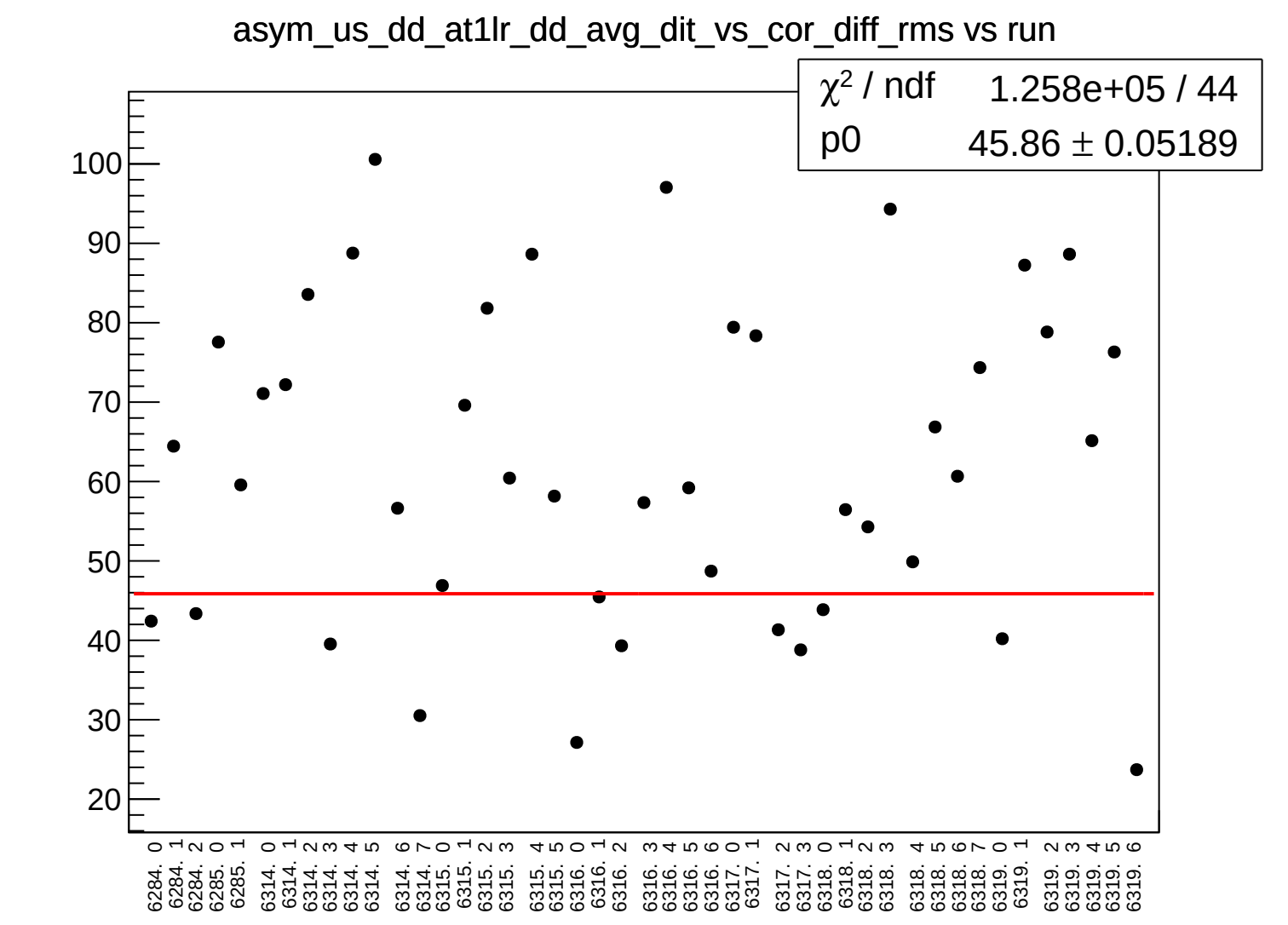
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 9.114
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

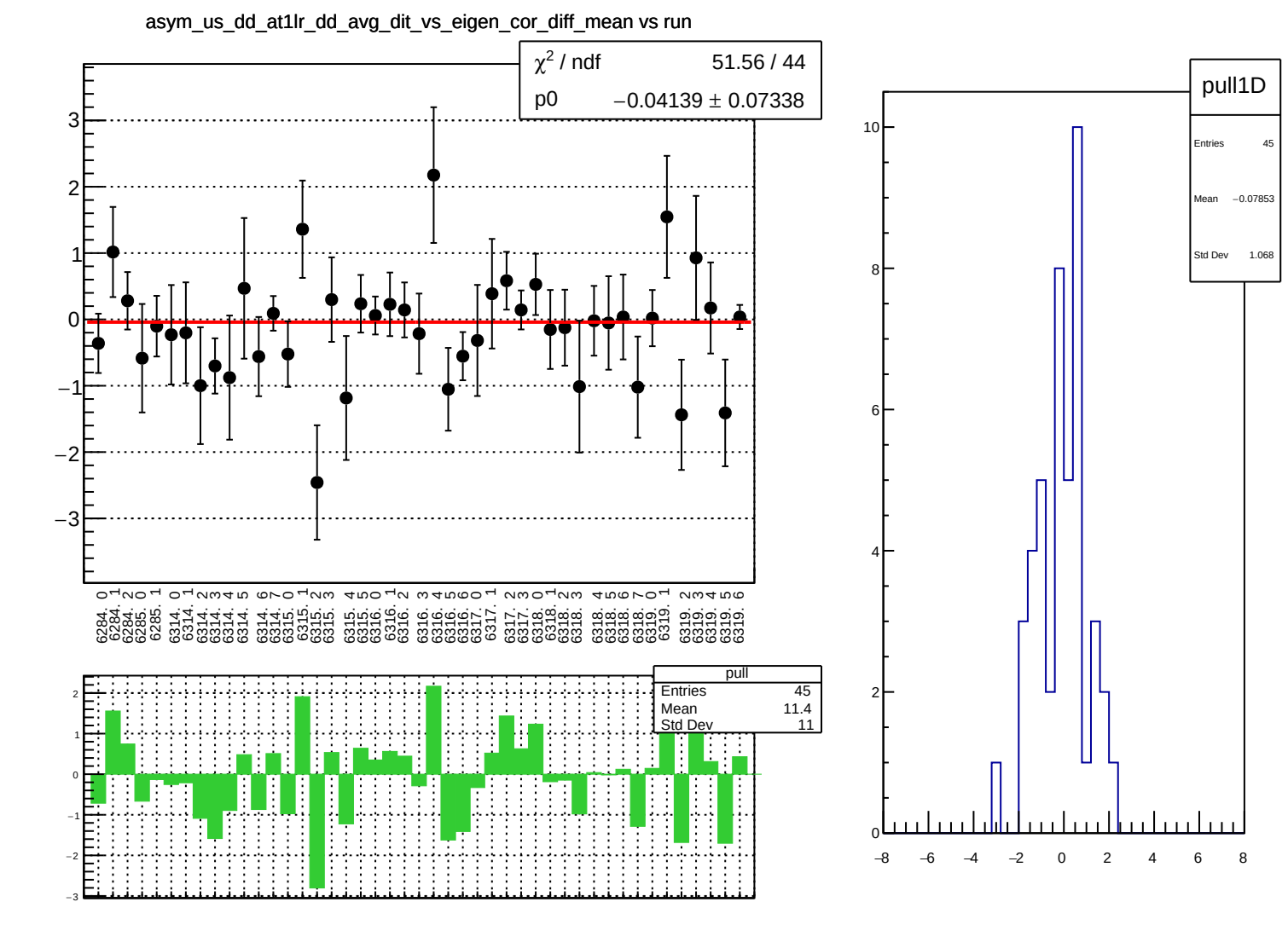

pull1D
Entries 45
Mean −0.1637
Std Dev 0.7804
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

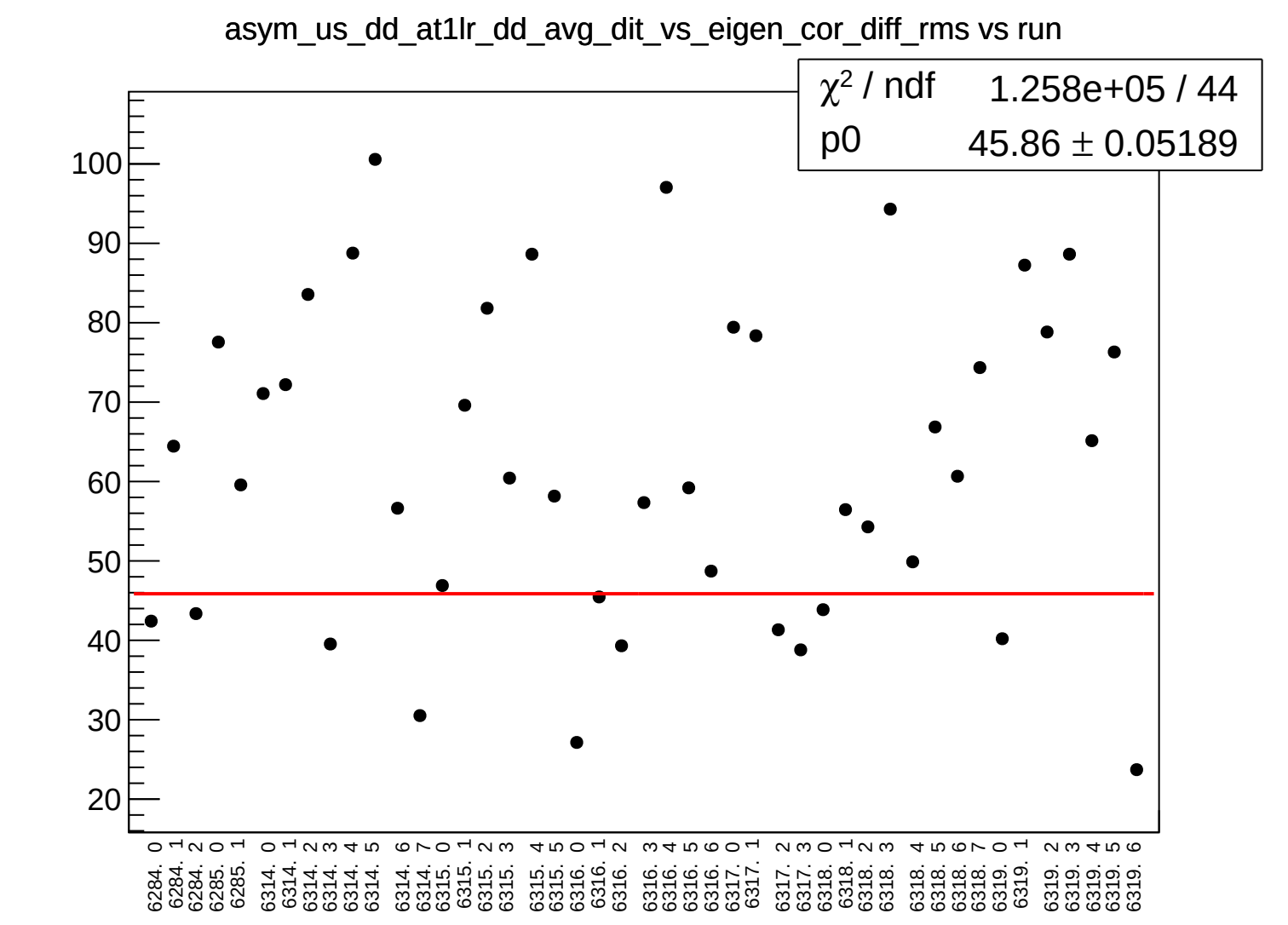

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.598e+05 / 44
p0 1.579e−11 ± 3.175e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

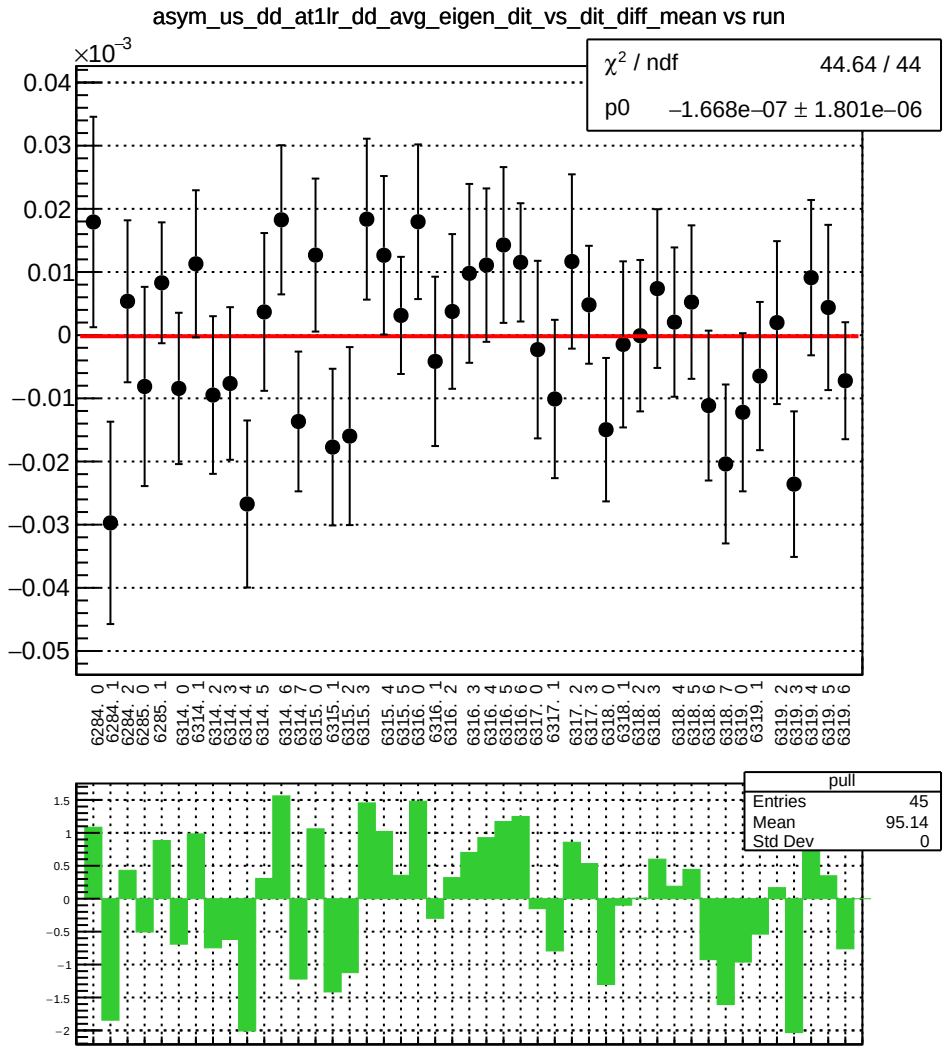

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.56 / 44
p0 −0.04139 ± 0.07338
pull
Entries 45
Mean 11.4
Std Dev 11

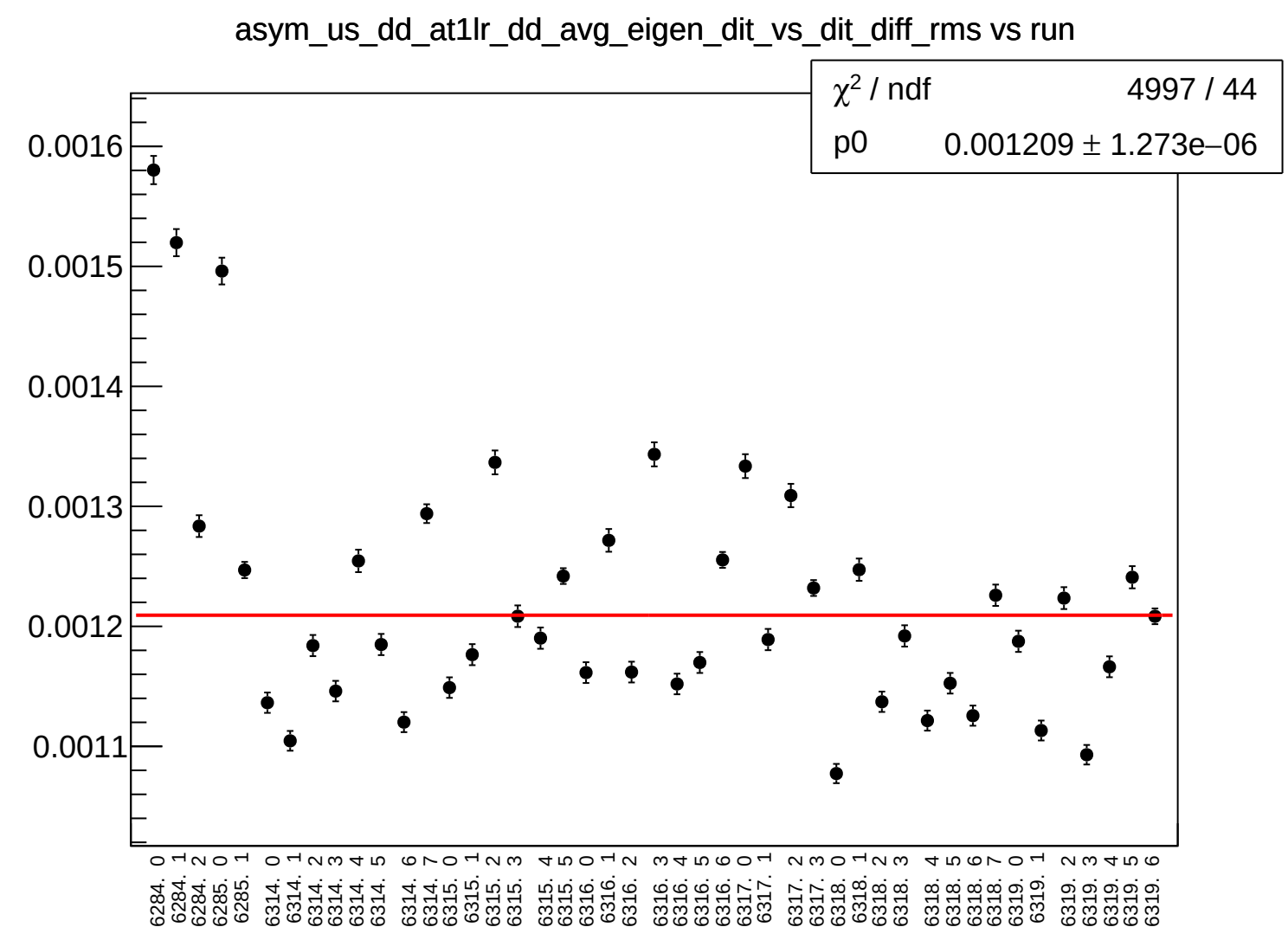

pull1D
Entries 45
Mean −0.07853
Std Dev 1.068

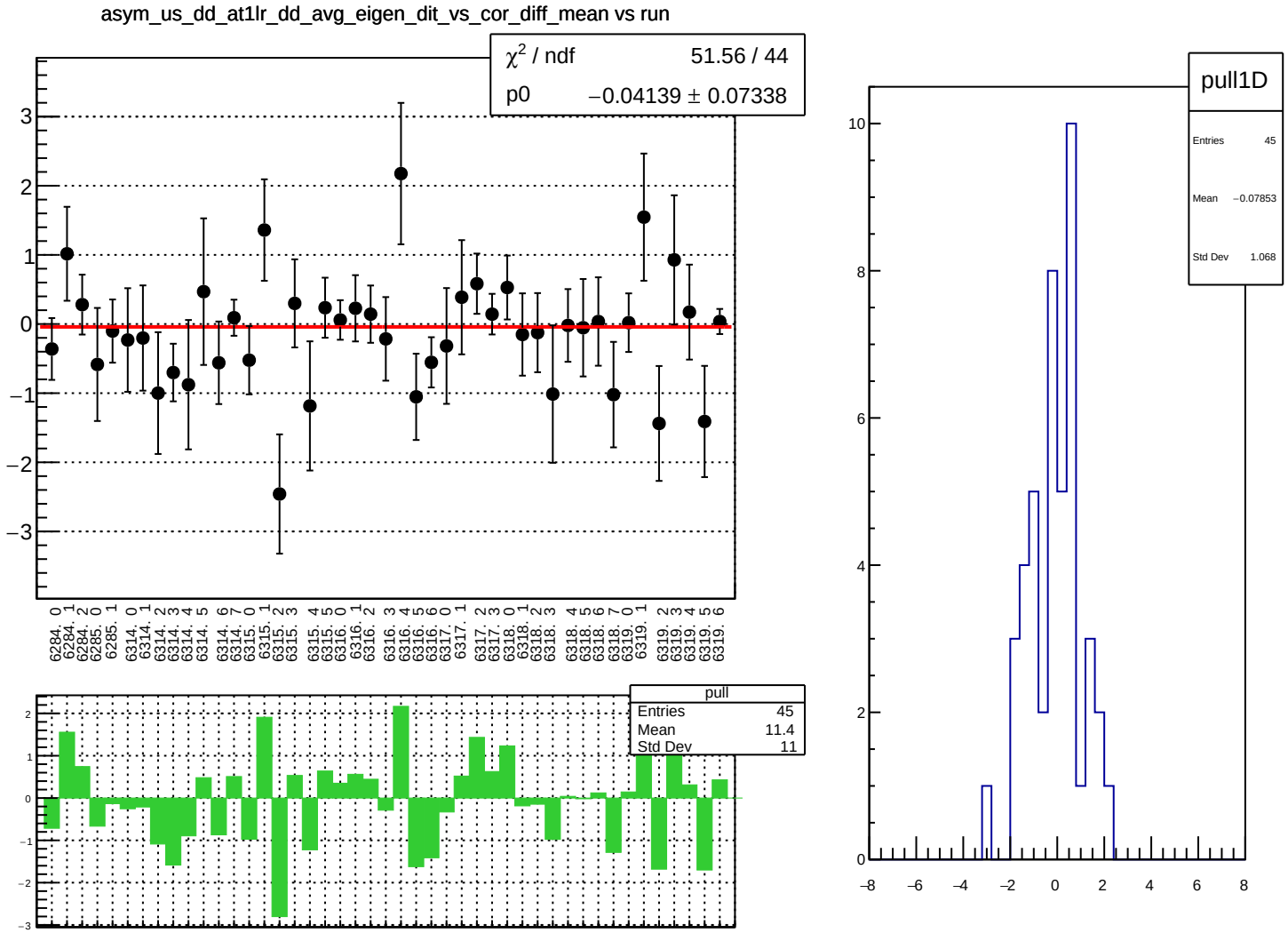

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.258e+05 / 44
p0 45.86 ± 0.05189
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

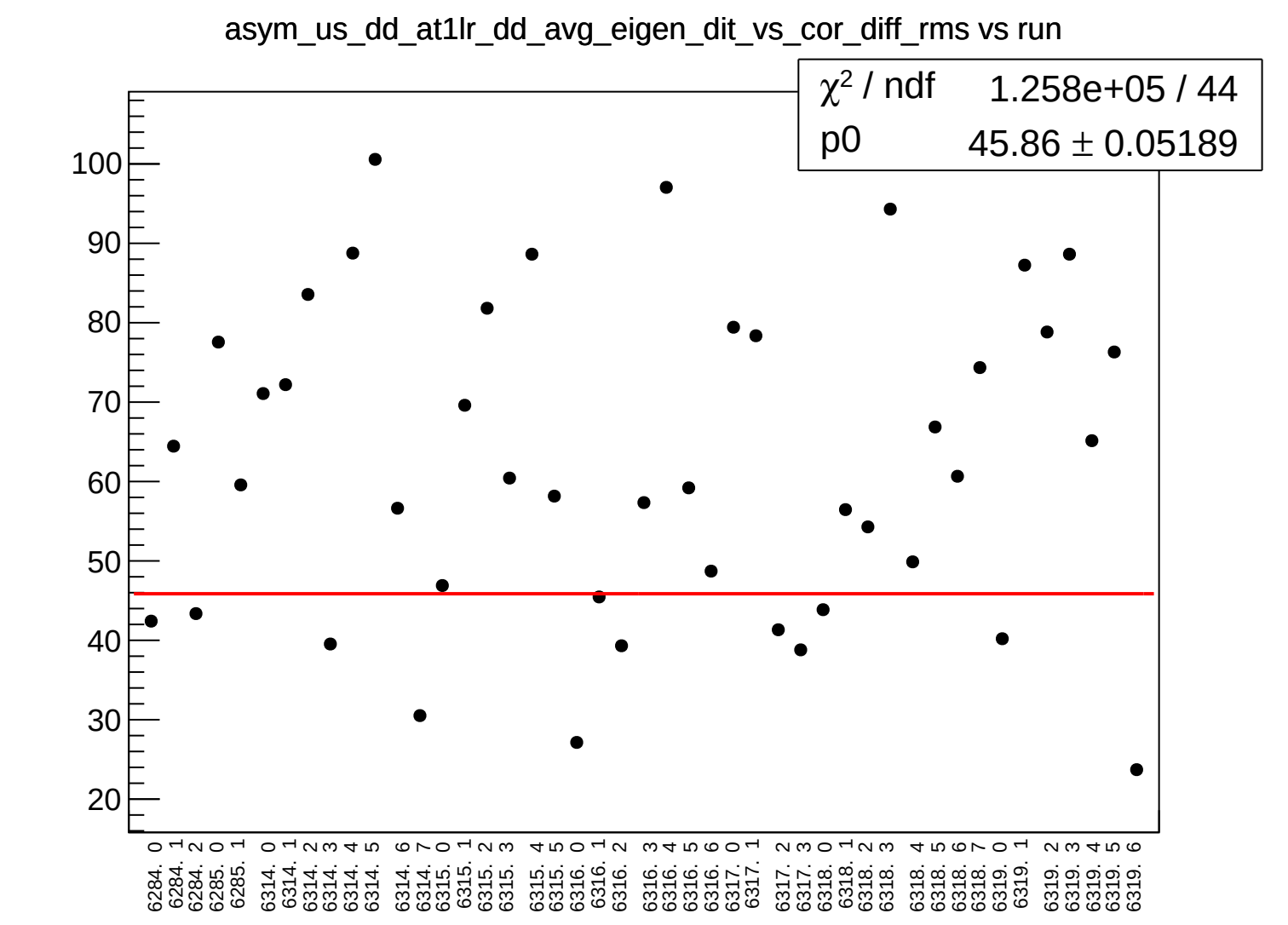

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.56 / 44
p0 −0.04139 ± 0.07338
pull
Entries 45
Mean 11.4
Std Dev 11
pull1D
Entries 45
Mean −0.07853
Std Dev 1.068

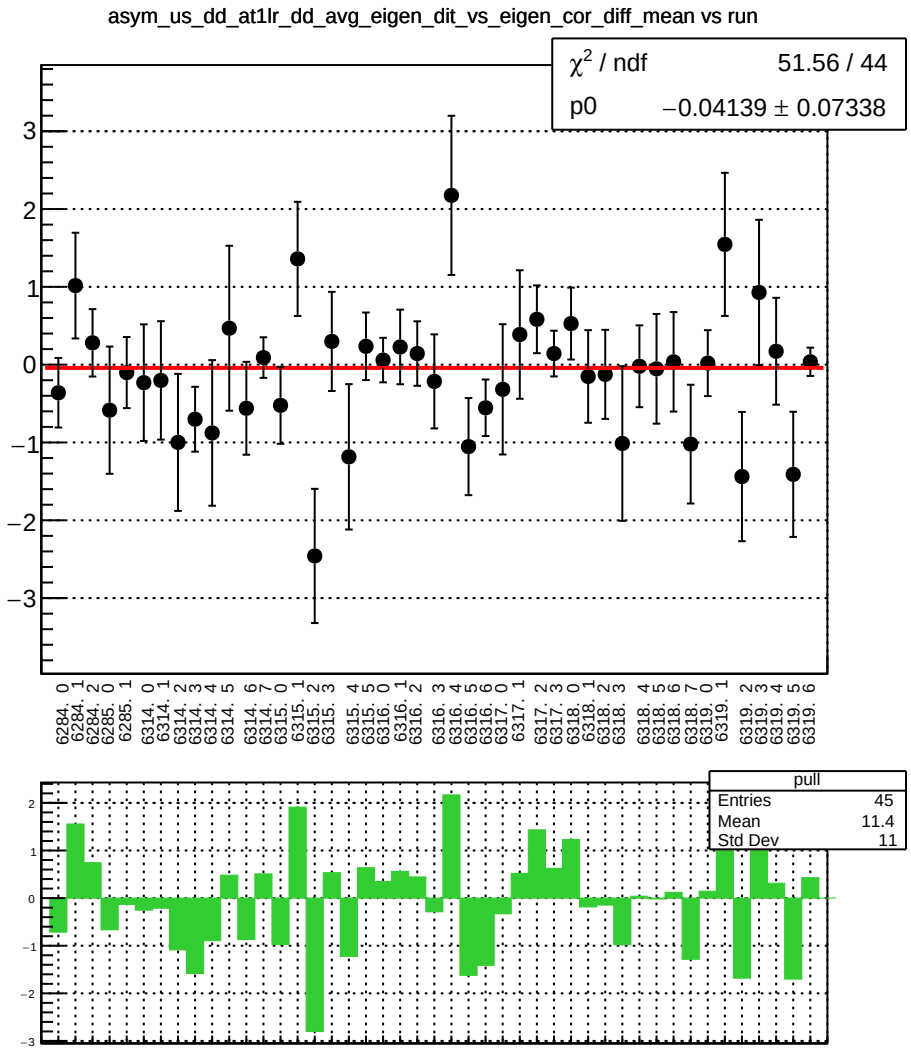

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.258e+05 / 44
p0 45.86 ± 0.05189
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

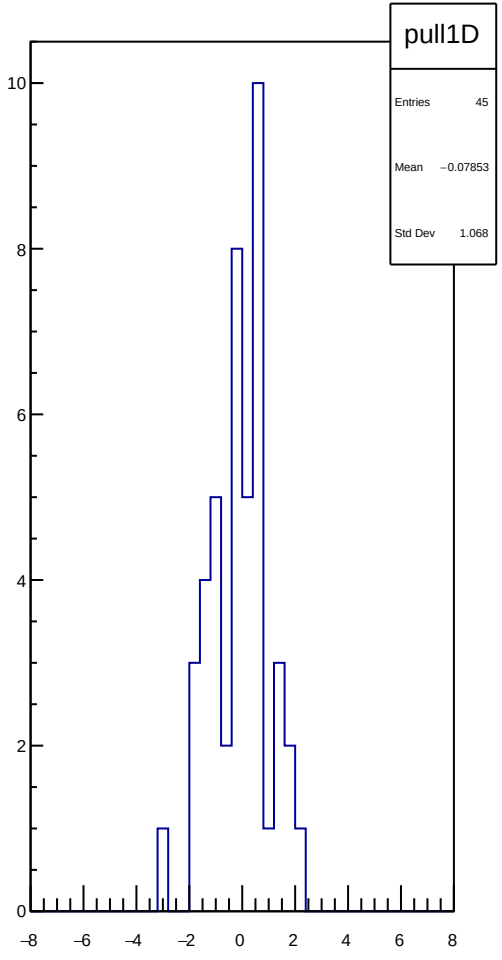

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.64 / 44
p0 −1.668e−07 ± 1.801e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 95.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01634
Std Dev 0.9958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

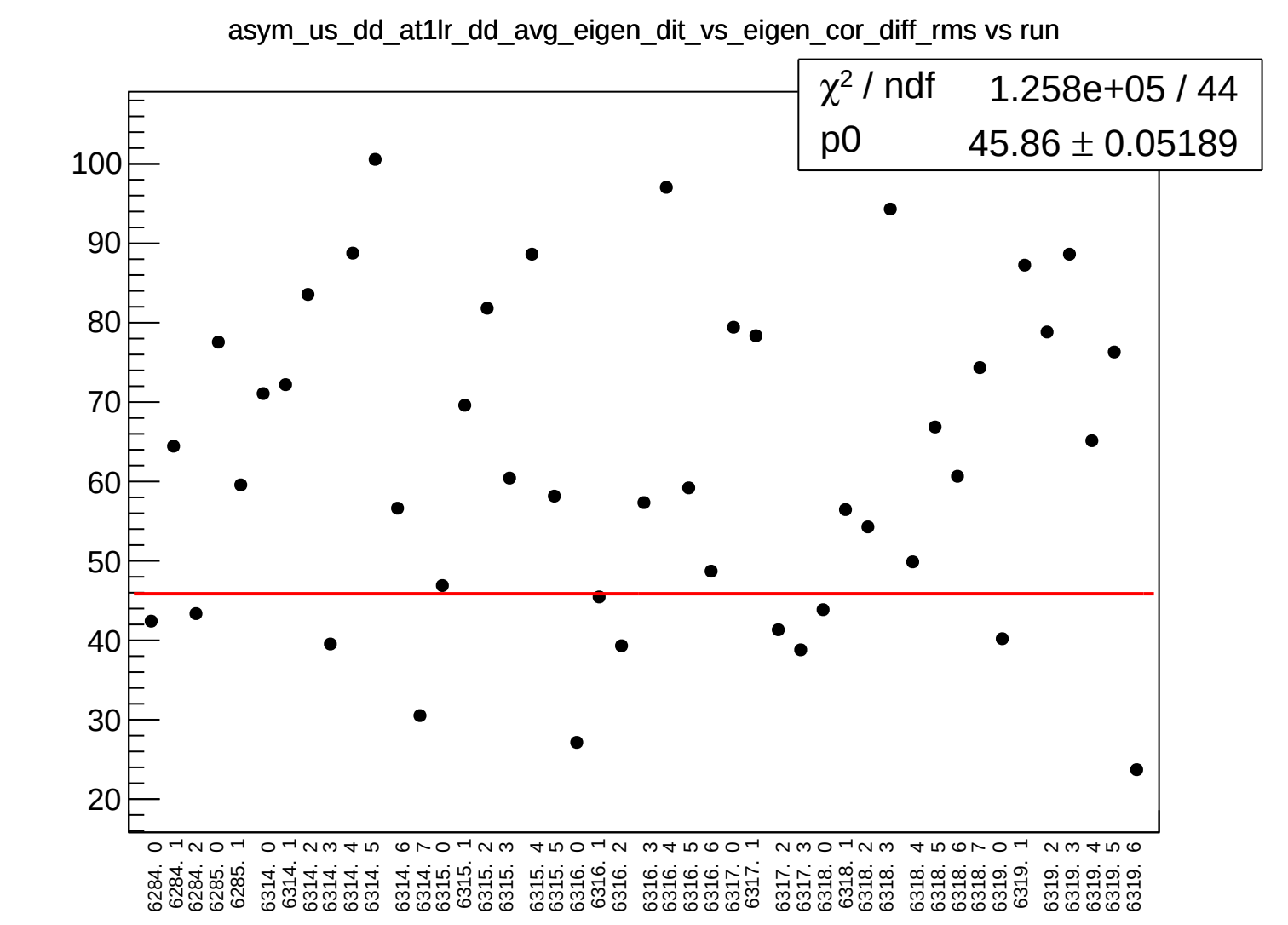

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4997 / 44
p0 0.001209 ± 1.273e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

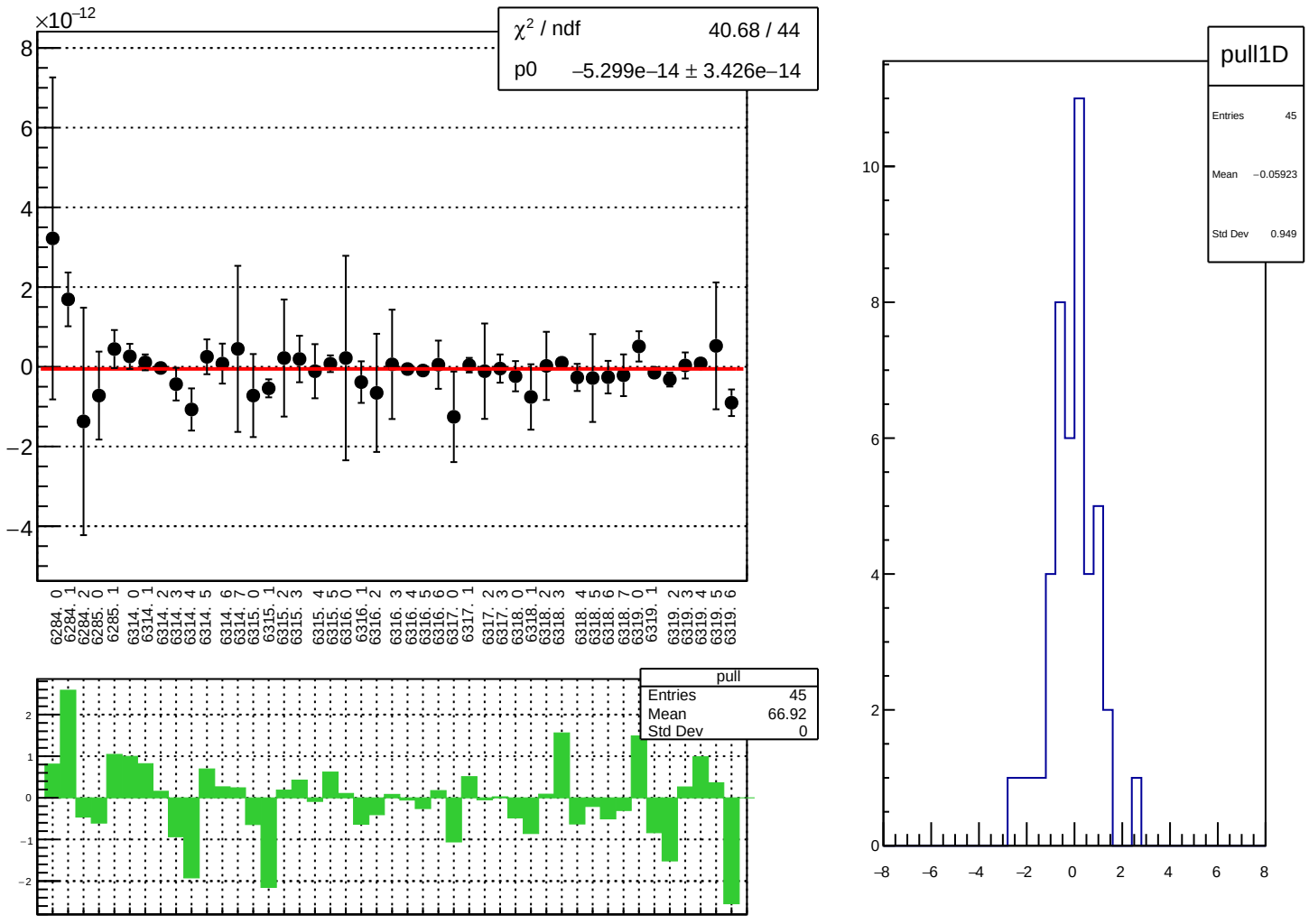

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.56 / 44
p0 −0.04139 ± 0.07338
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.4
Std Dev 11
pull1D
Entries 45
Mean −0.07853
Std Dev 1.068

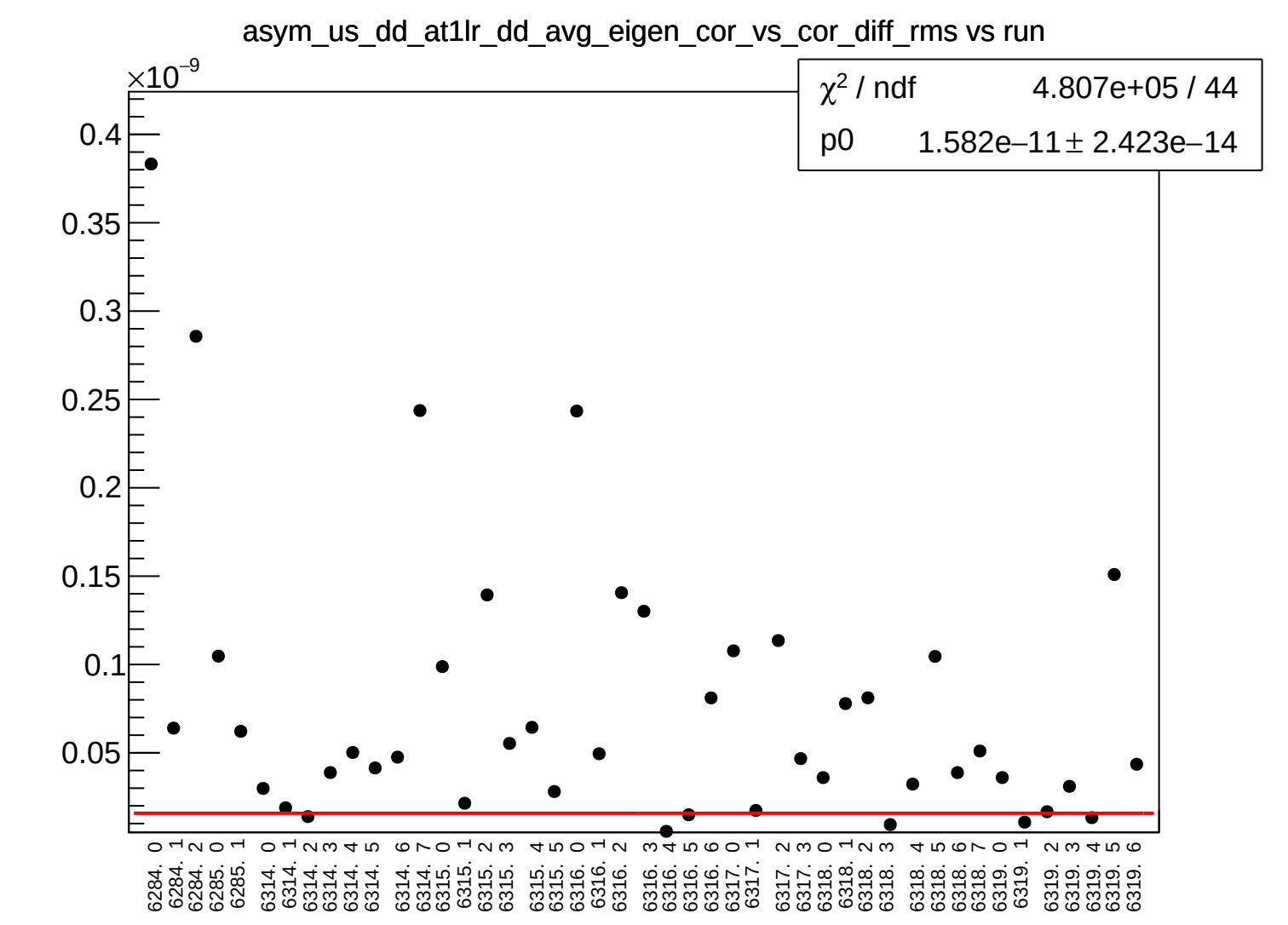

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.258e+05 / 44
p0 45.86 ± 0.05189
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

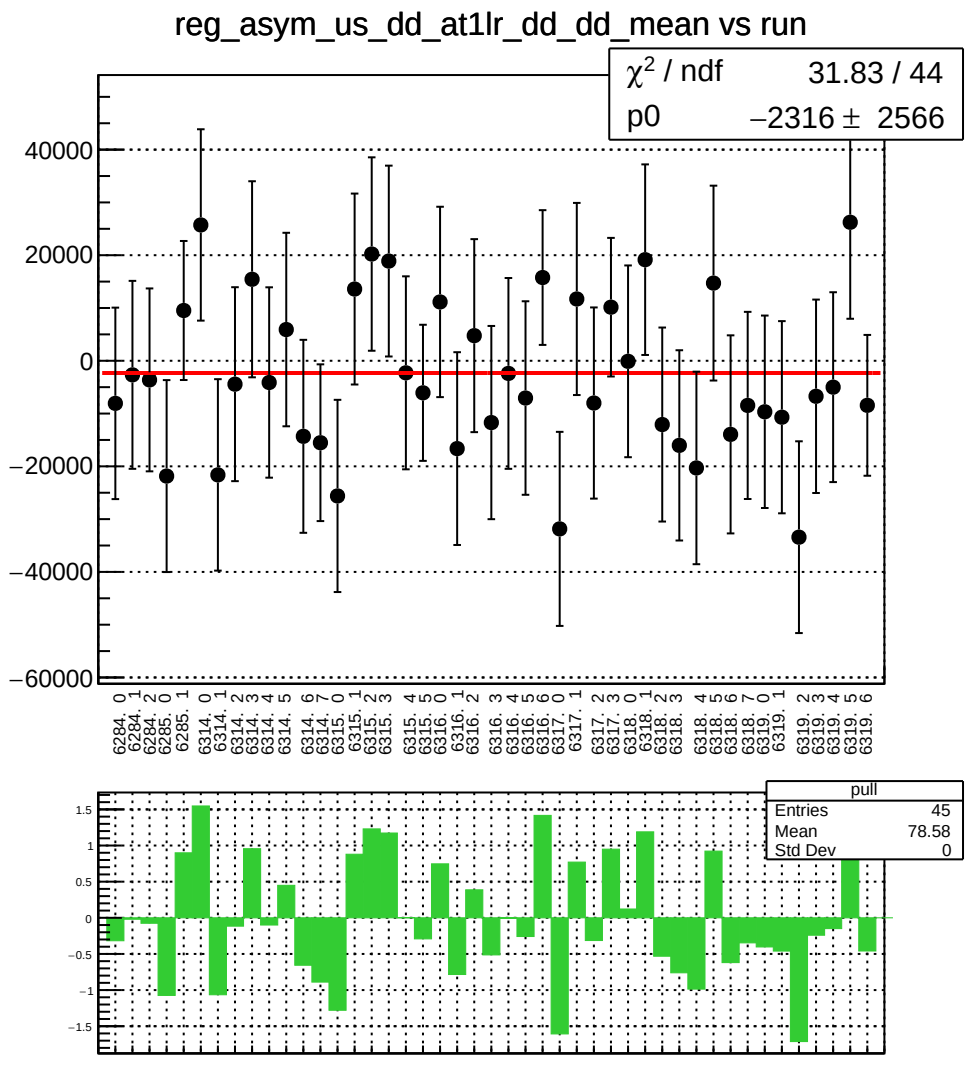

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.56 / 44
p0 −0.04139 ± 0.07338
pull
Entries 45
Mean 11.4
Std Dev 11

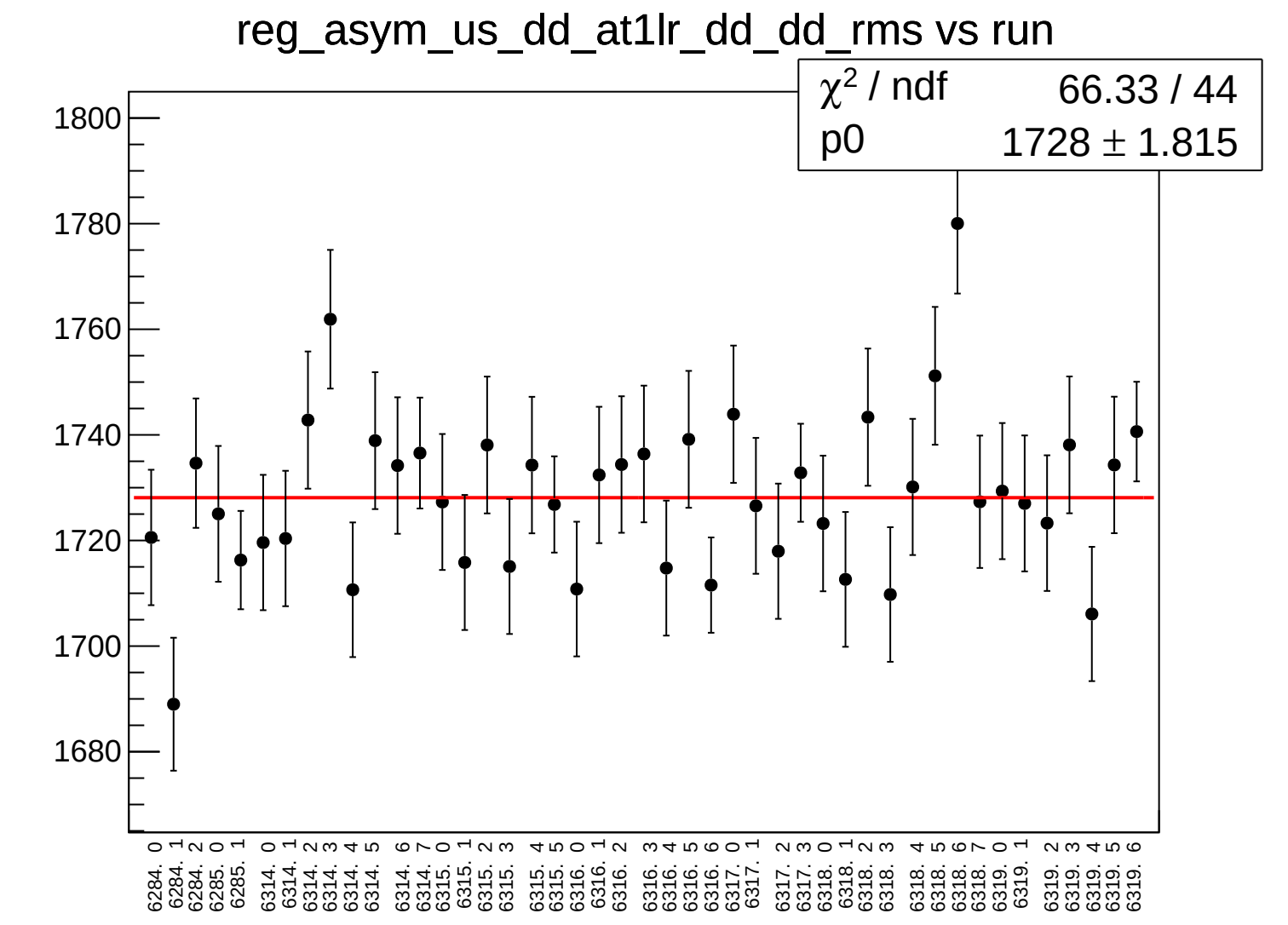

pull1D
Entries 45
Mean −0.07853
Std Dev 1.068

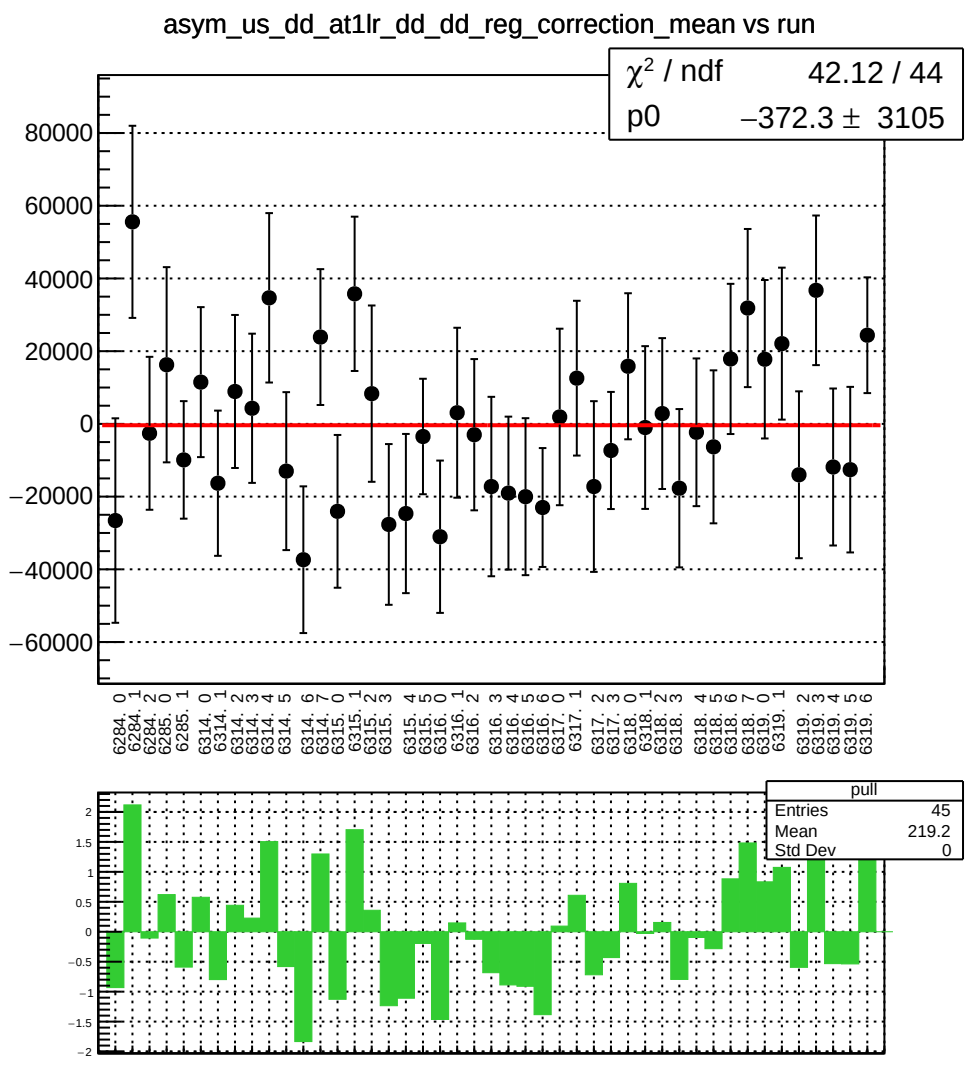

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.258e+05 / 44
p0 45.86 ± 0.05189
100
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

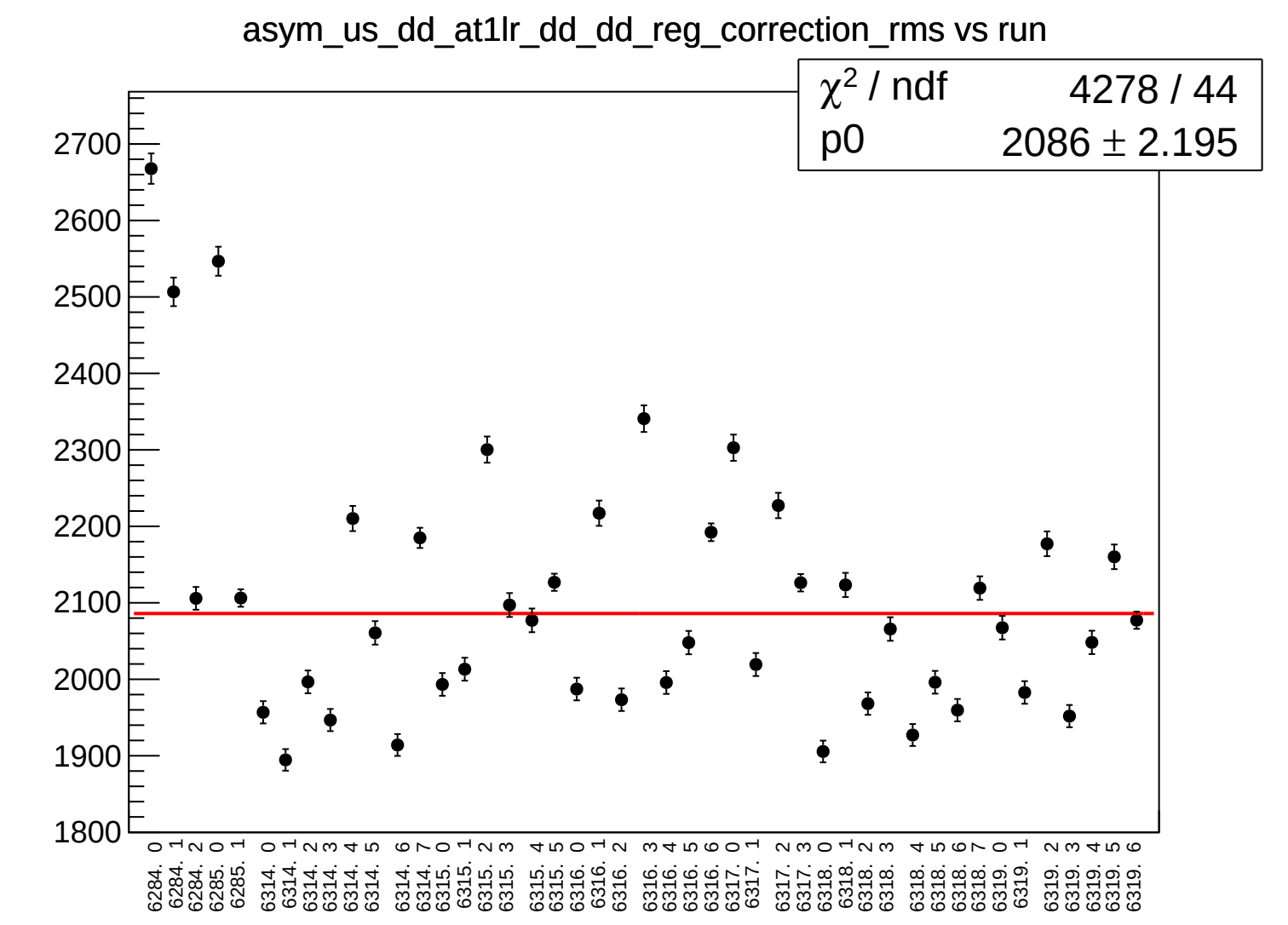

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.68 / 44
p0 −5.299e−14 ± 3.426e−14
8
6
4
2
0
−2
−4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 66.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.05923
Std Dev 0.949
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.807e+05 / 44
p0 1.582e−11 ± 2.423e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 31.83 / 44
p0 −2316 ± 2566
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 78.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01847
Std Dev 0.8408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 66.33 / 44
p0 1728 ± 1.815
1800
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 42.12 / 44
p0 −372.3 ± 3105
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007032
Std Dev 0.9675
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4278 / 44
p0 2086 ± 2.195
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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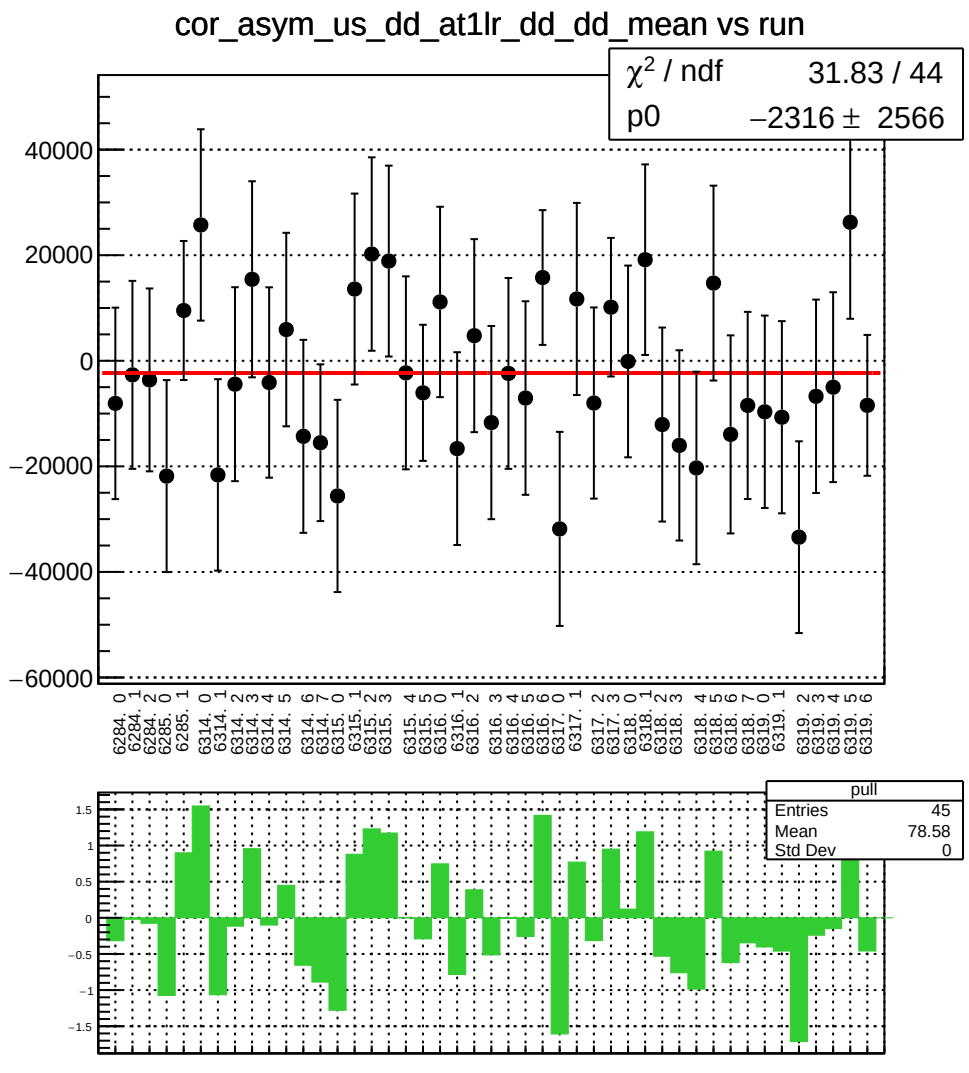
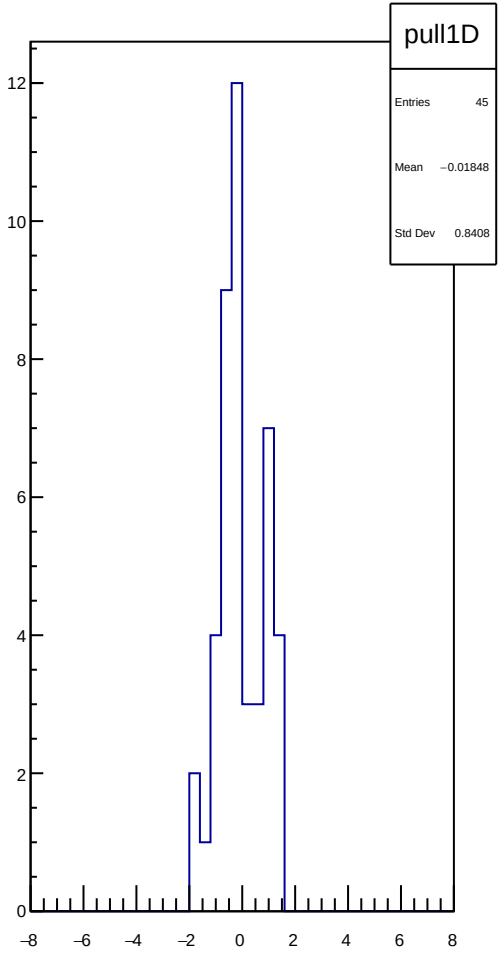
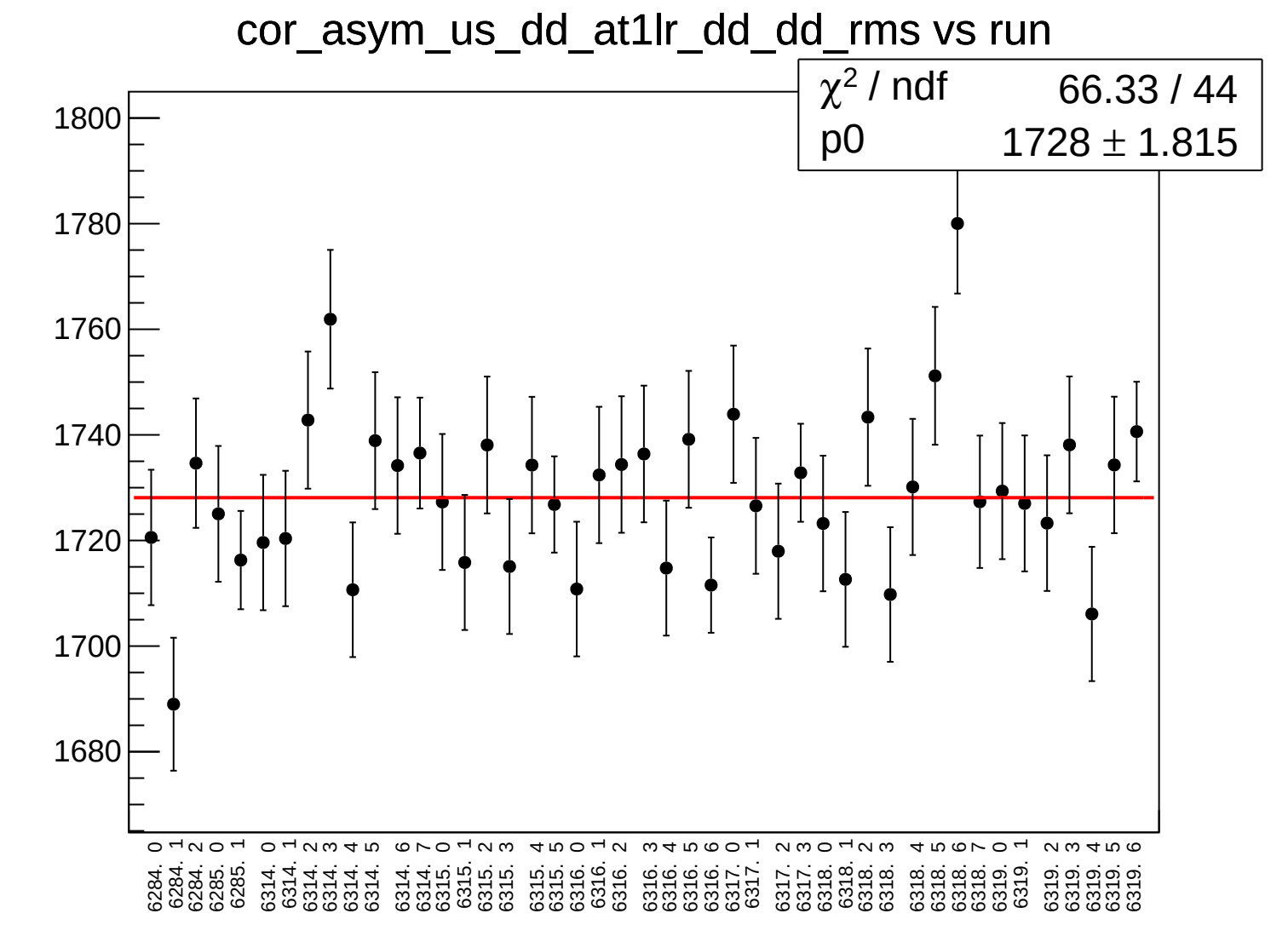
6319. 5
6319. 6


cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 31.83 / 44
p0 −2316 ± 2566
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 78.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01848
Std Dev 0.8408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 66.33 / 44
p0 1728 ± 1.815
1800
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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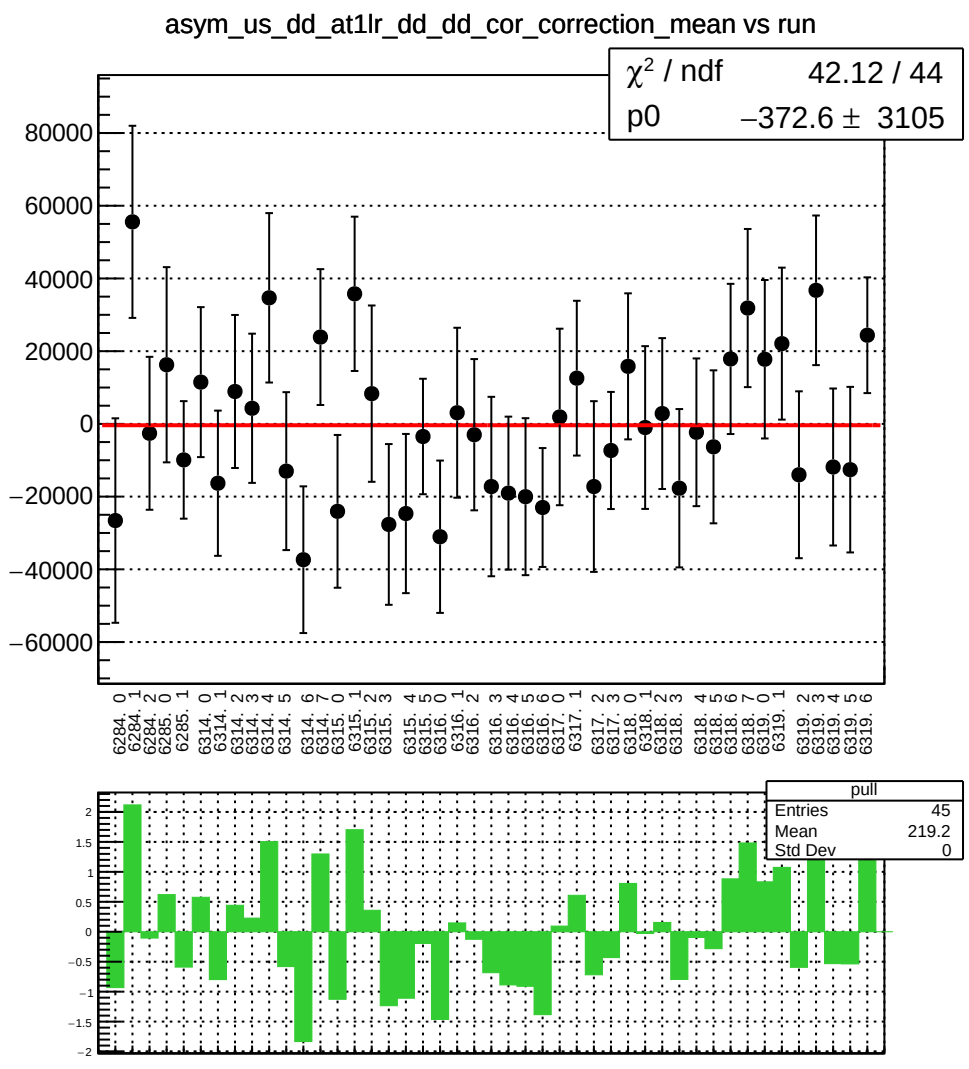
6319. 5
6319. 6


asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 42.12 / 44
p0 −372.6 ± 3105
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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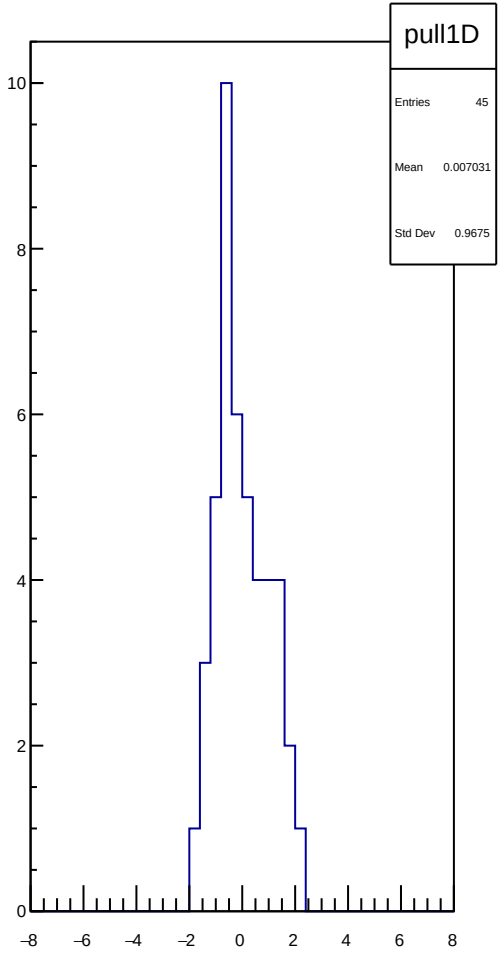
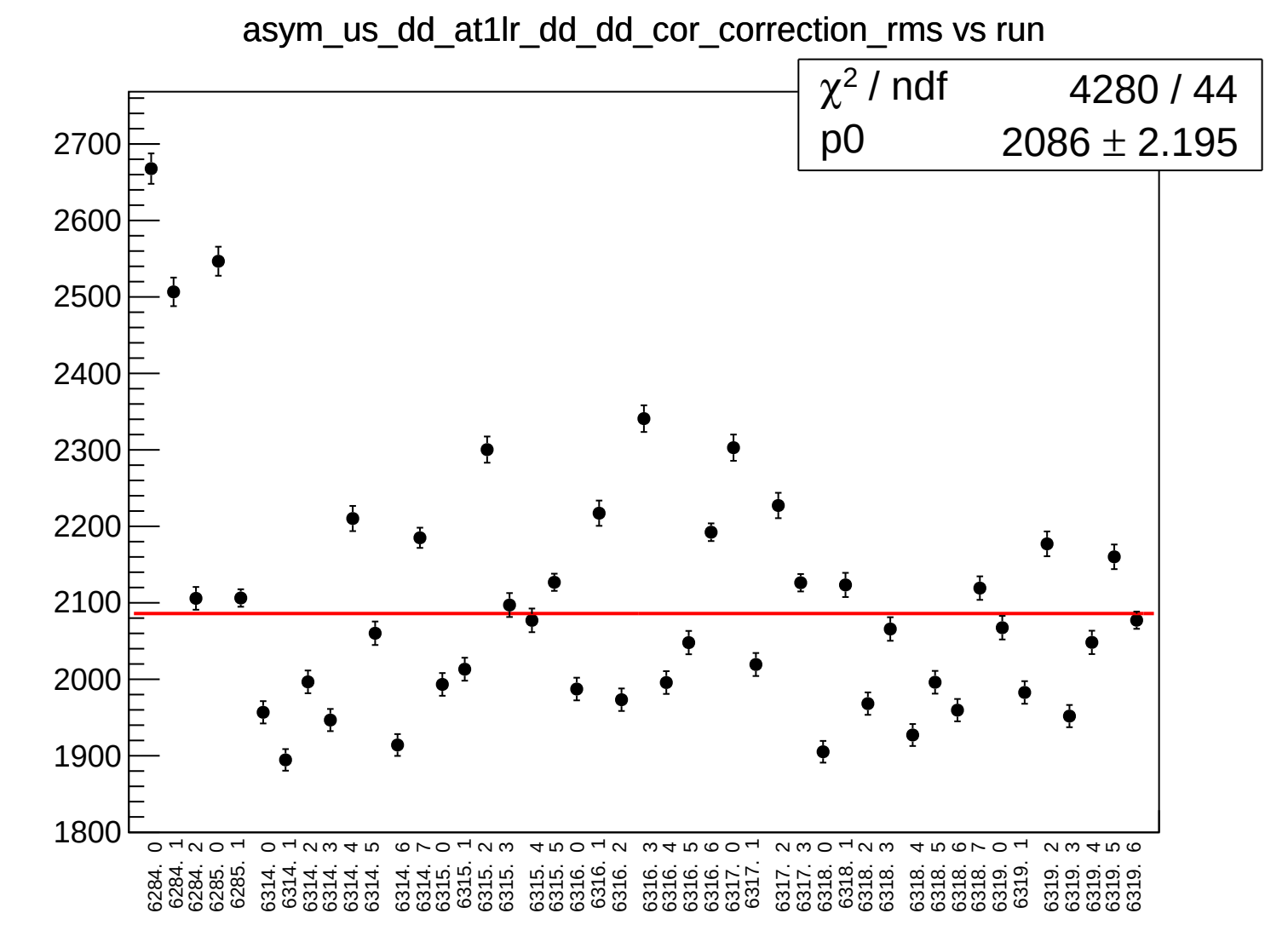
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007031
Std Dev 0.9675
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4280 / 44
p0 2086 ± 2.195
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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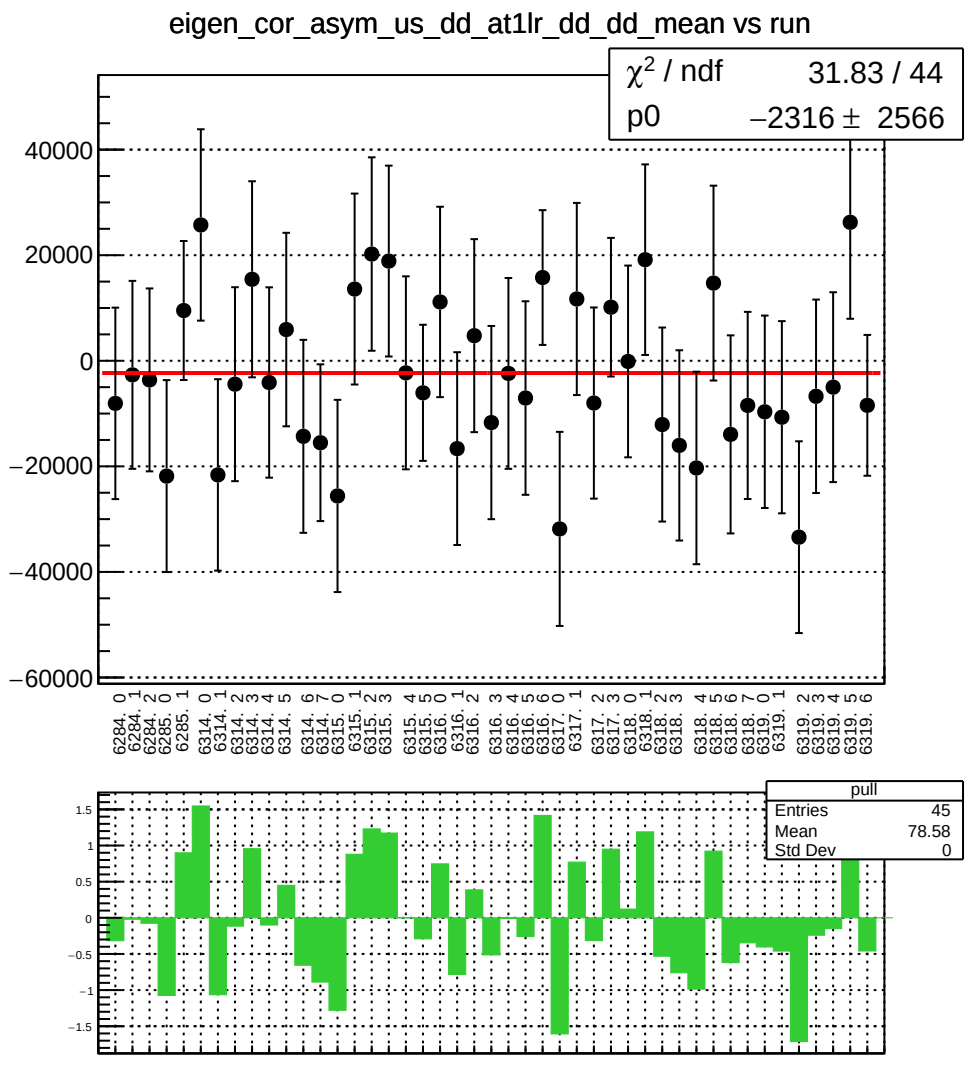
6319. 6


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 31.83 / 44
p0 −2316 ± 2566
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 6
6317. 0
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6318. 2
6318. 3
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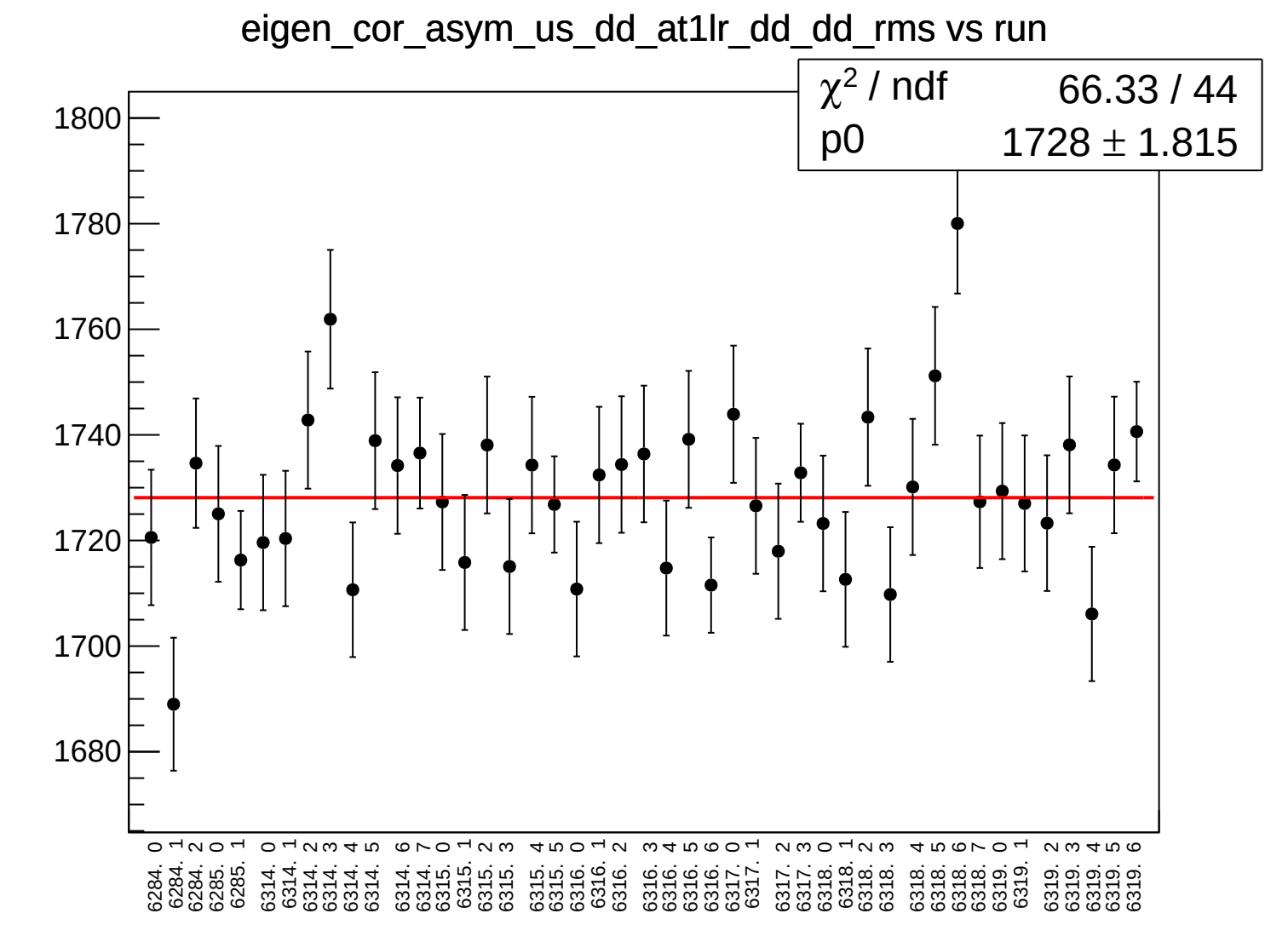
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 78.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01848
Std Dev 0.8408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 66.33 / 44
p0 1728 ± 1.815
1800
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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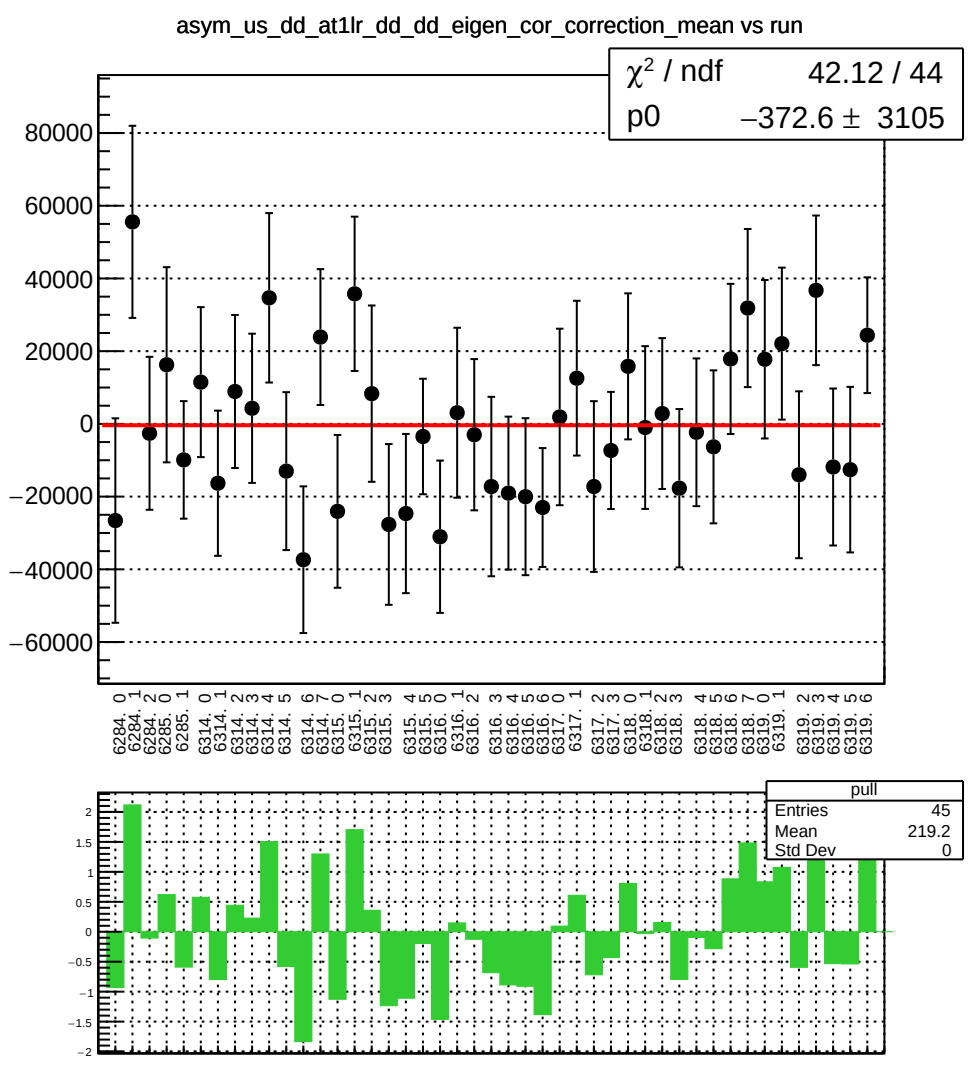
asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.12 / 44
p0 −372.6 ± 3105
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
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6316. 5
6316. 6
6317. 0
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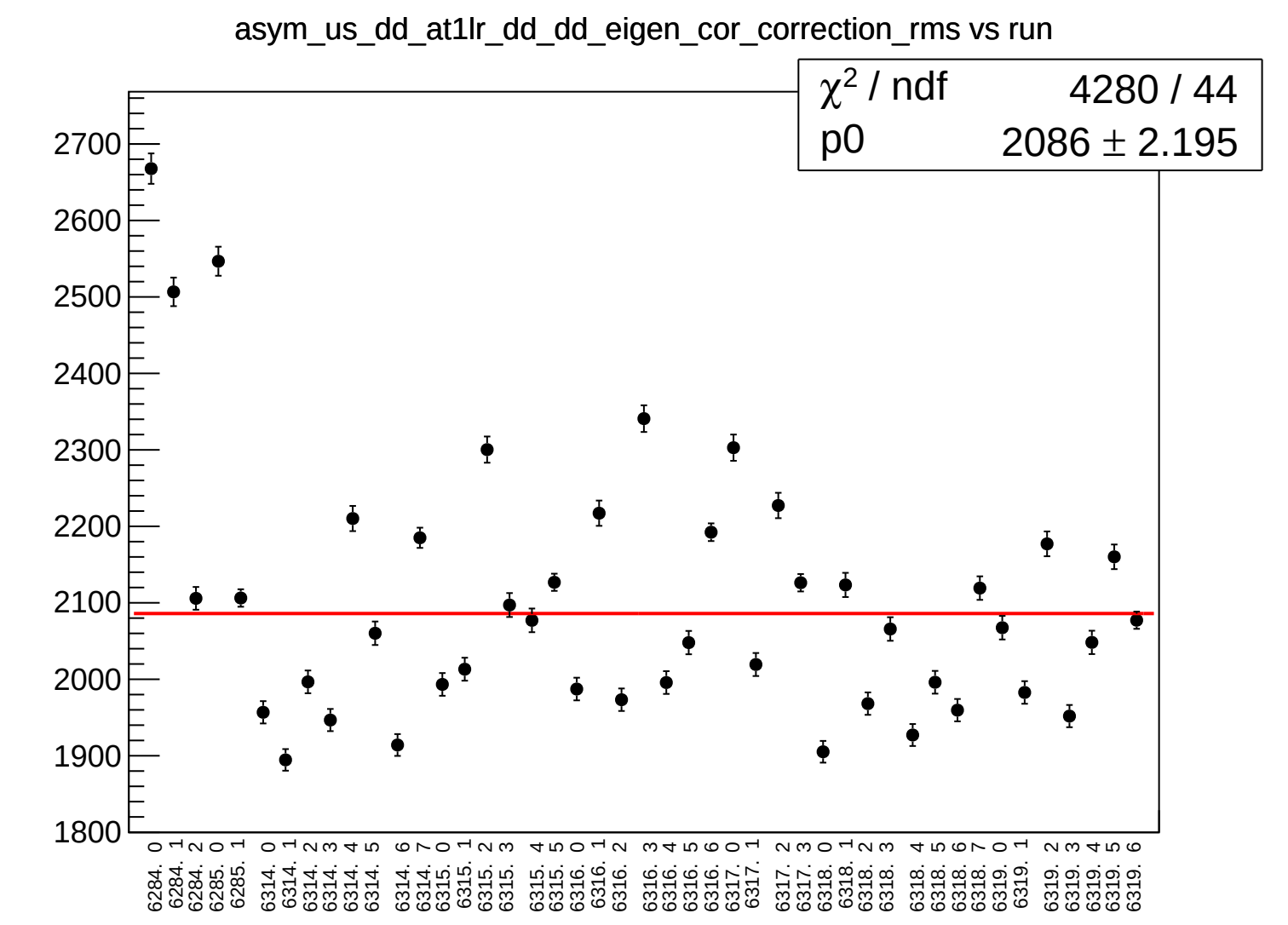
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007031
Std Dev 0.9675
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4280 / 44
p0 2086 ± 2.195
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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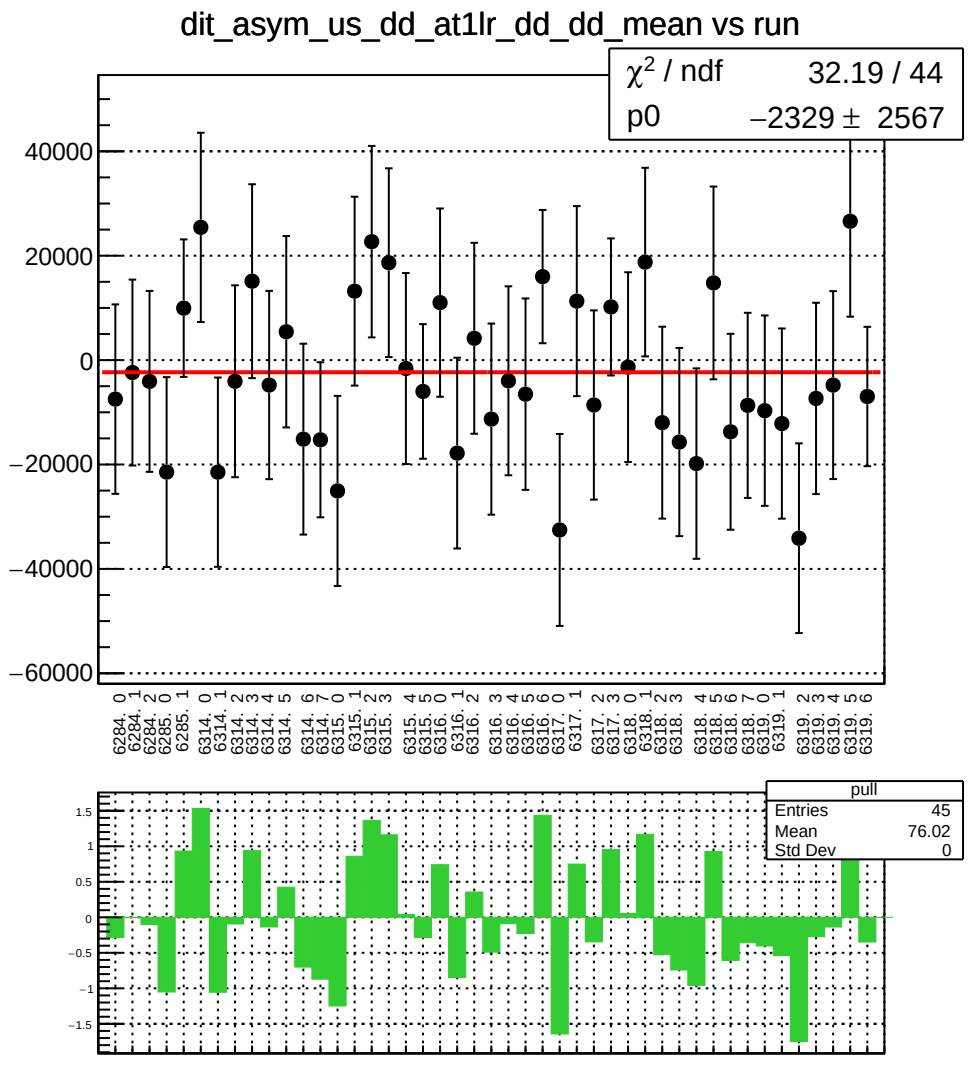
6319. 6


dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 32.19 / 44
p0 −2329 ± 2567
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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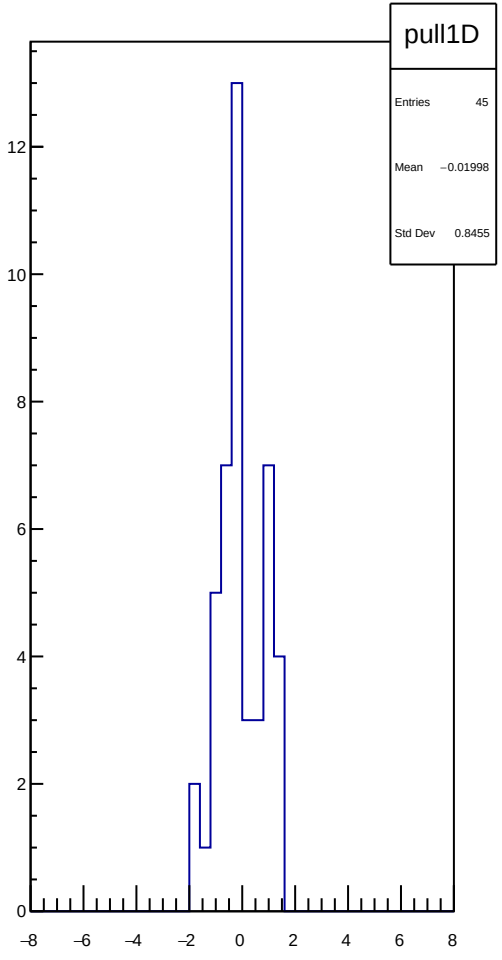
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01998
Std Dev 0.8455
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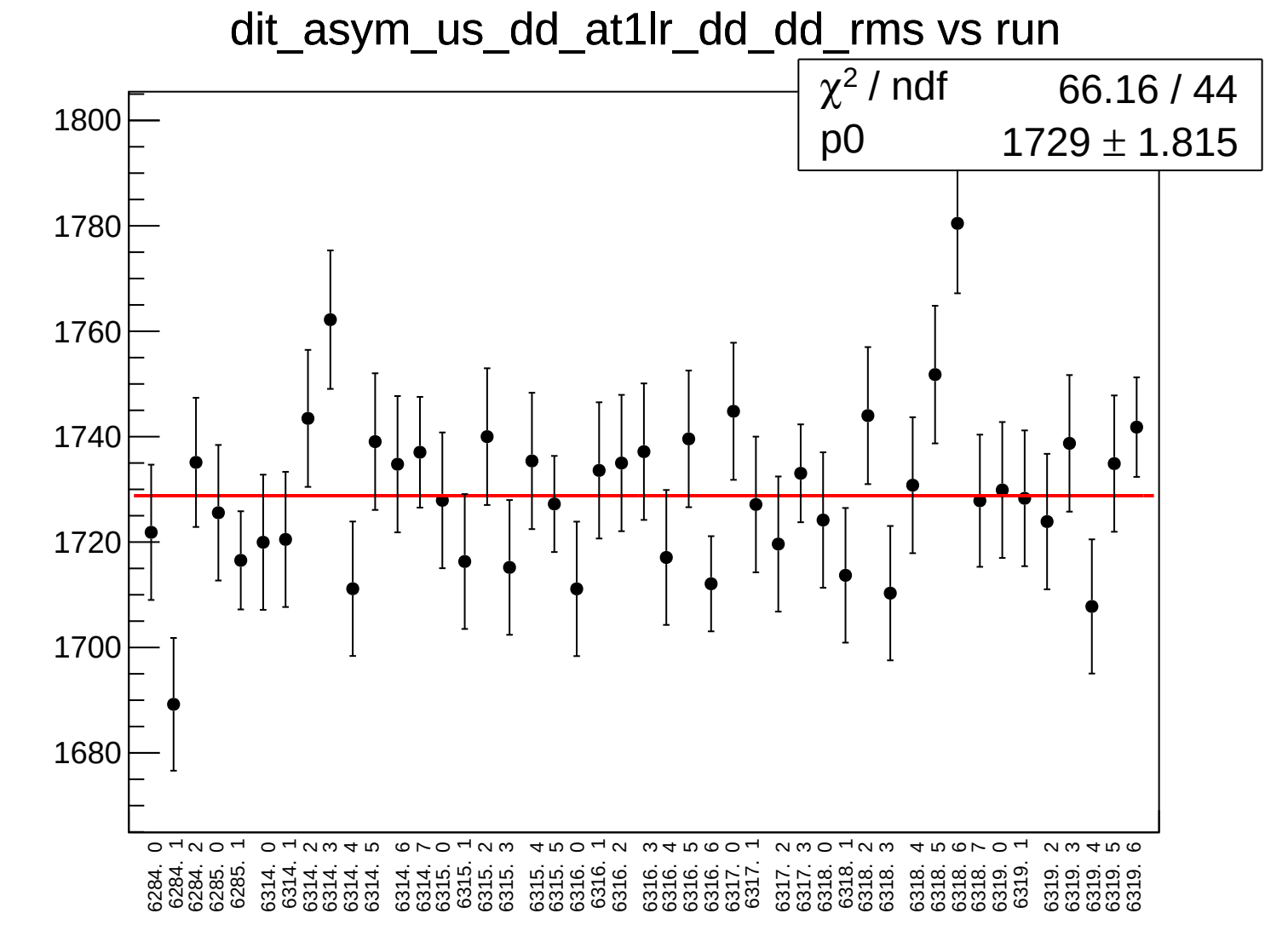
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 66.16 / 44
p0 1729 ± 1.815
1800
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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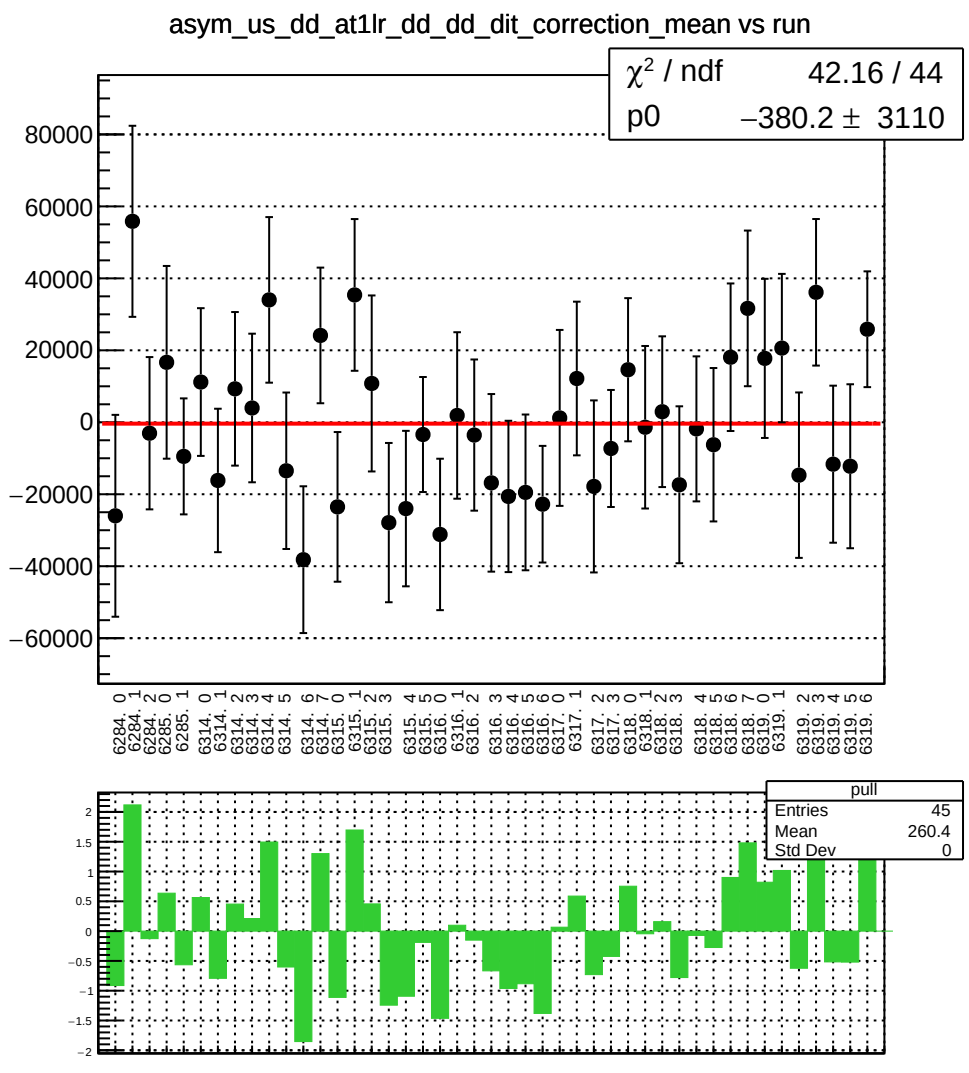
asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 42.16 / 44
p0 −380.2 ± 3110
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
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6316. 2
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6316. 6
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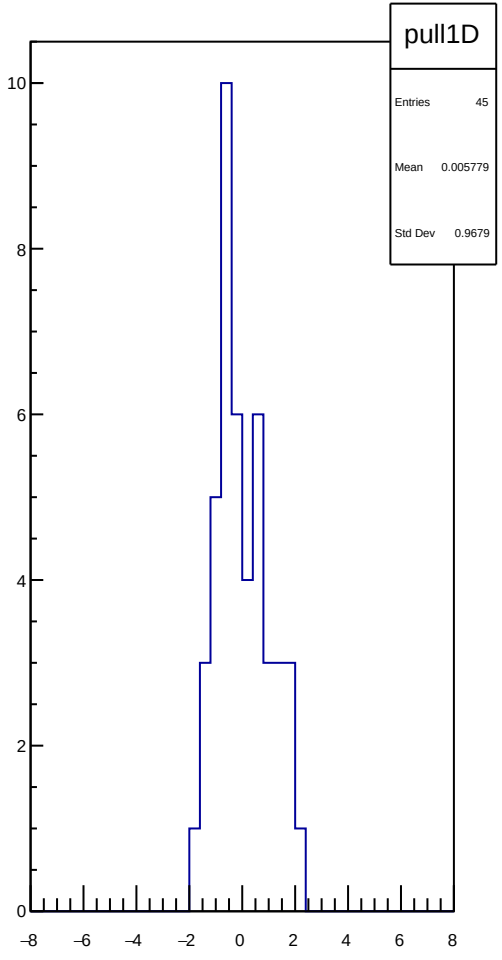
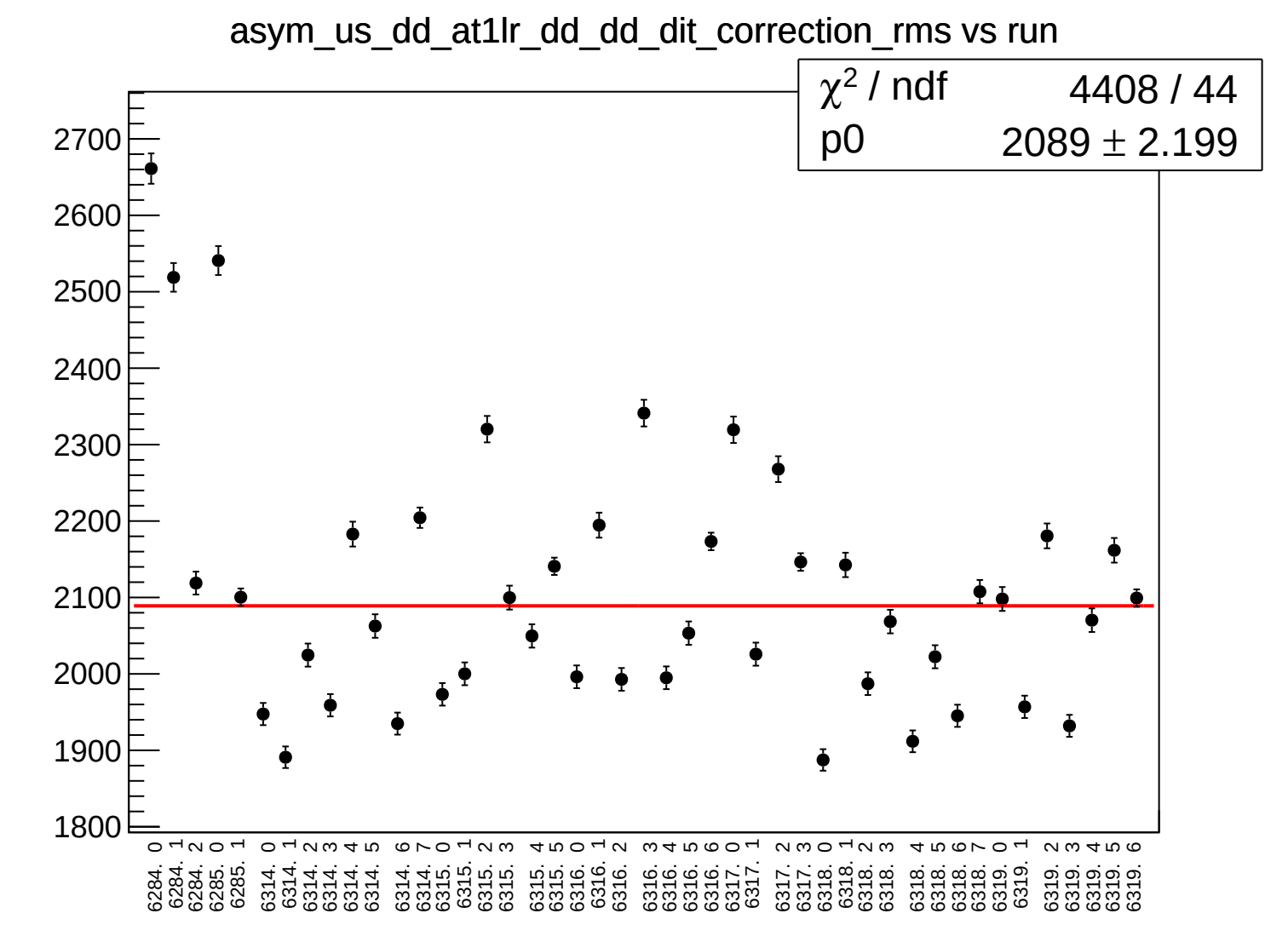
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 260.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.005779
Std Dev 0.9679
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4408 / 44
p0 2089 ± 2.199
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
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6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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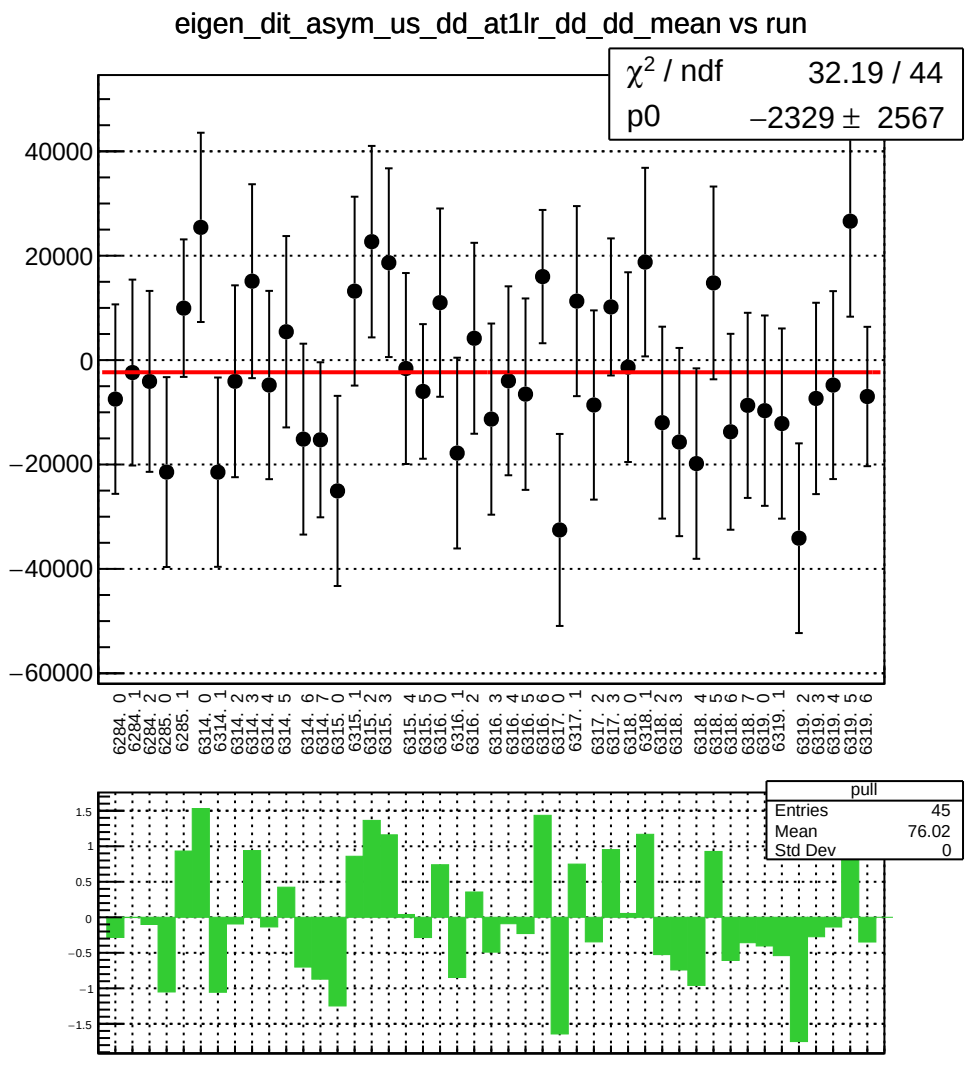
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 32.19 / 44
p0 −2329 ± 2567
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
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6315. 5
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6317. 0
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6317. 2
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6318. 1
6318. 2
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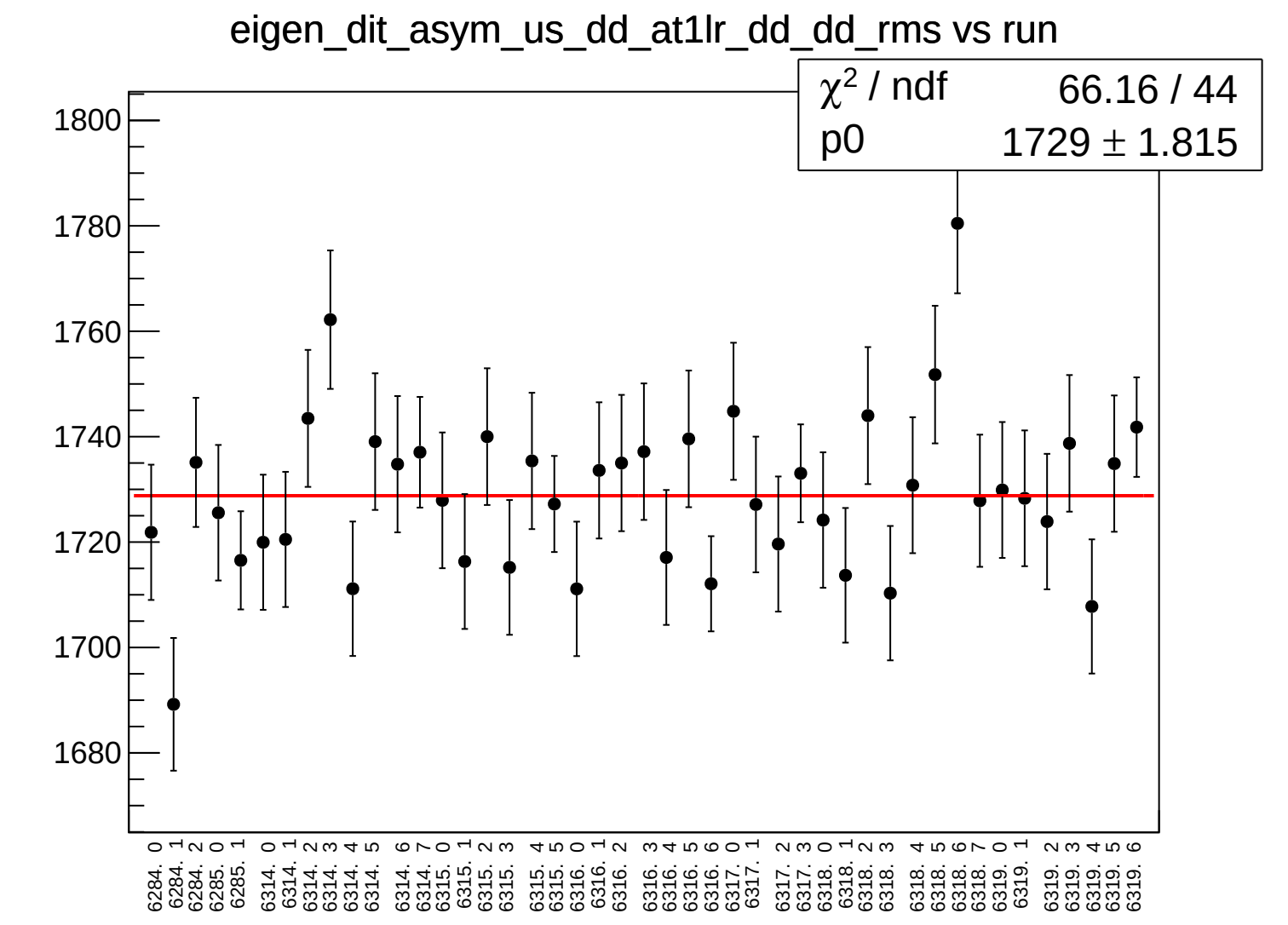
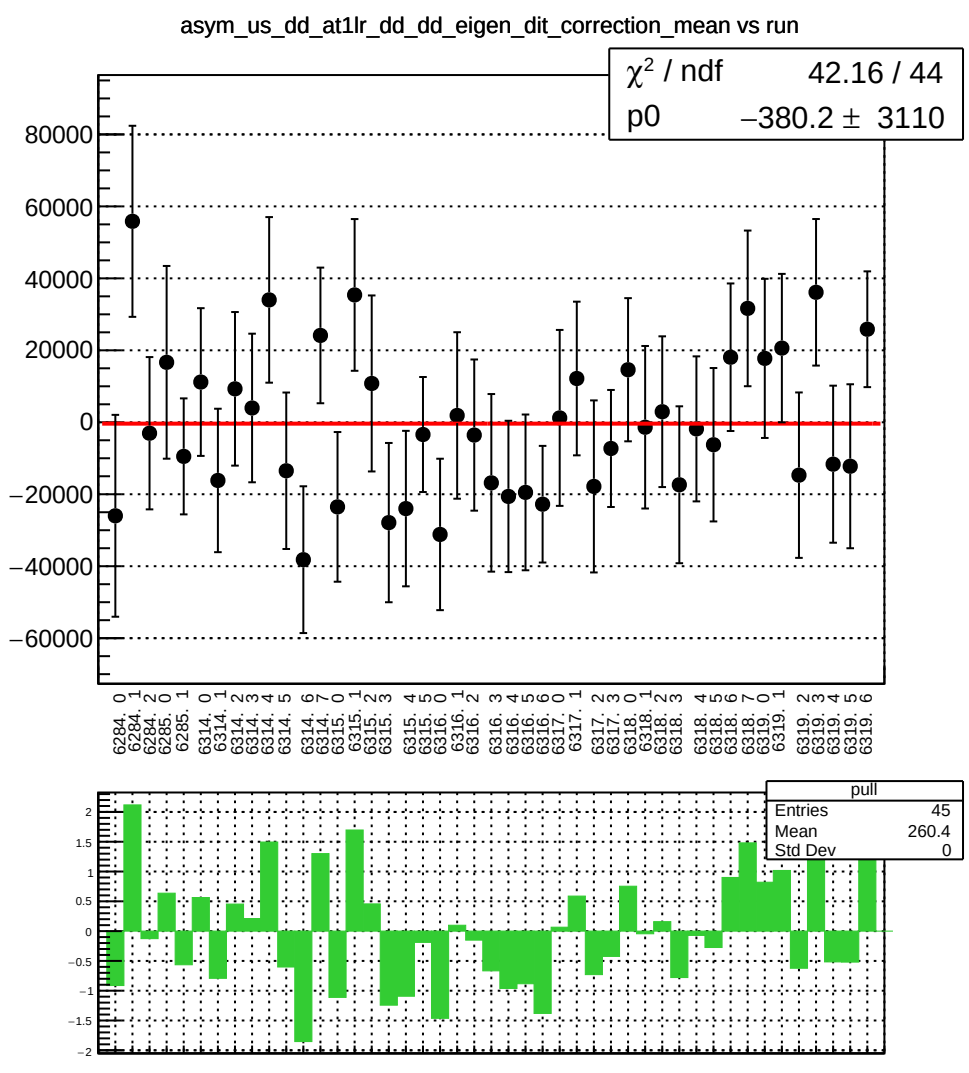
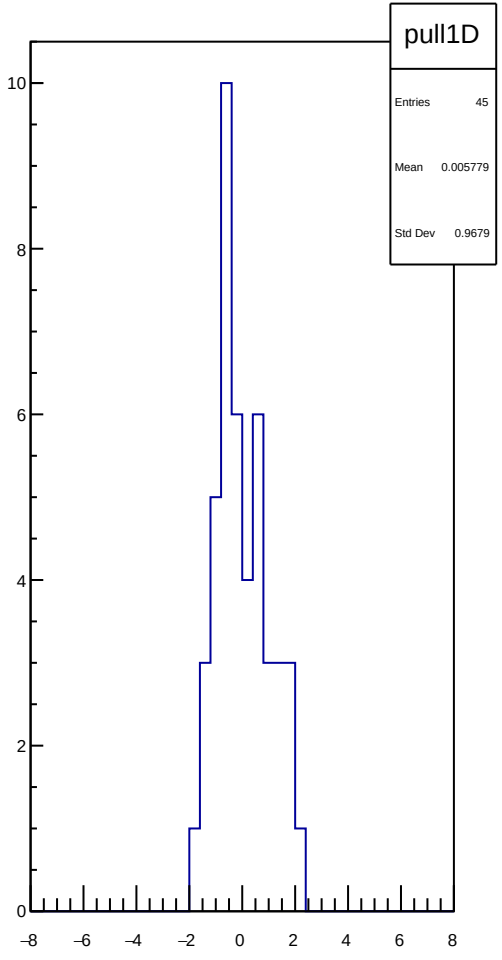
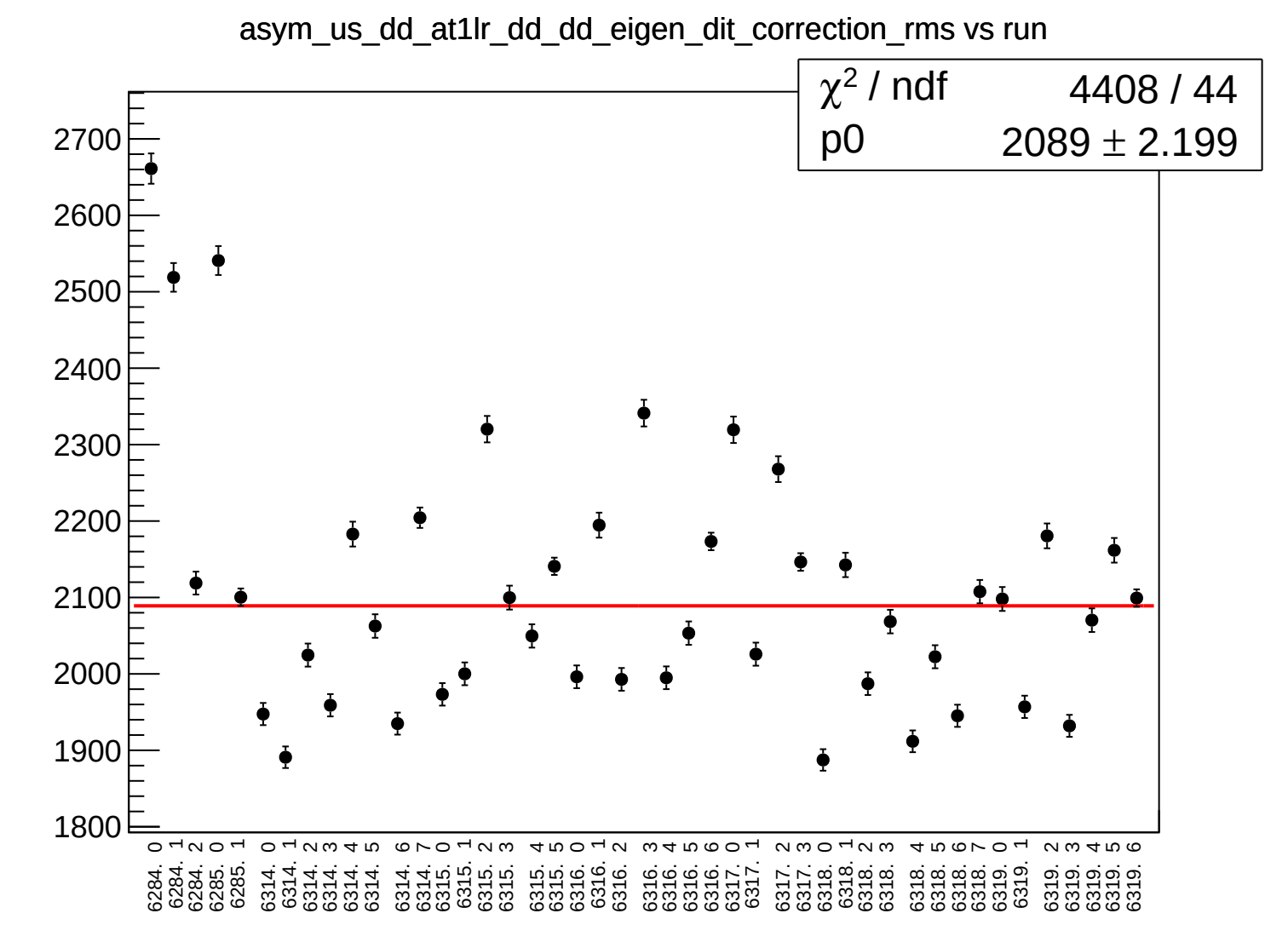
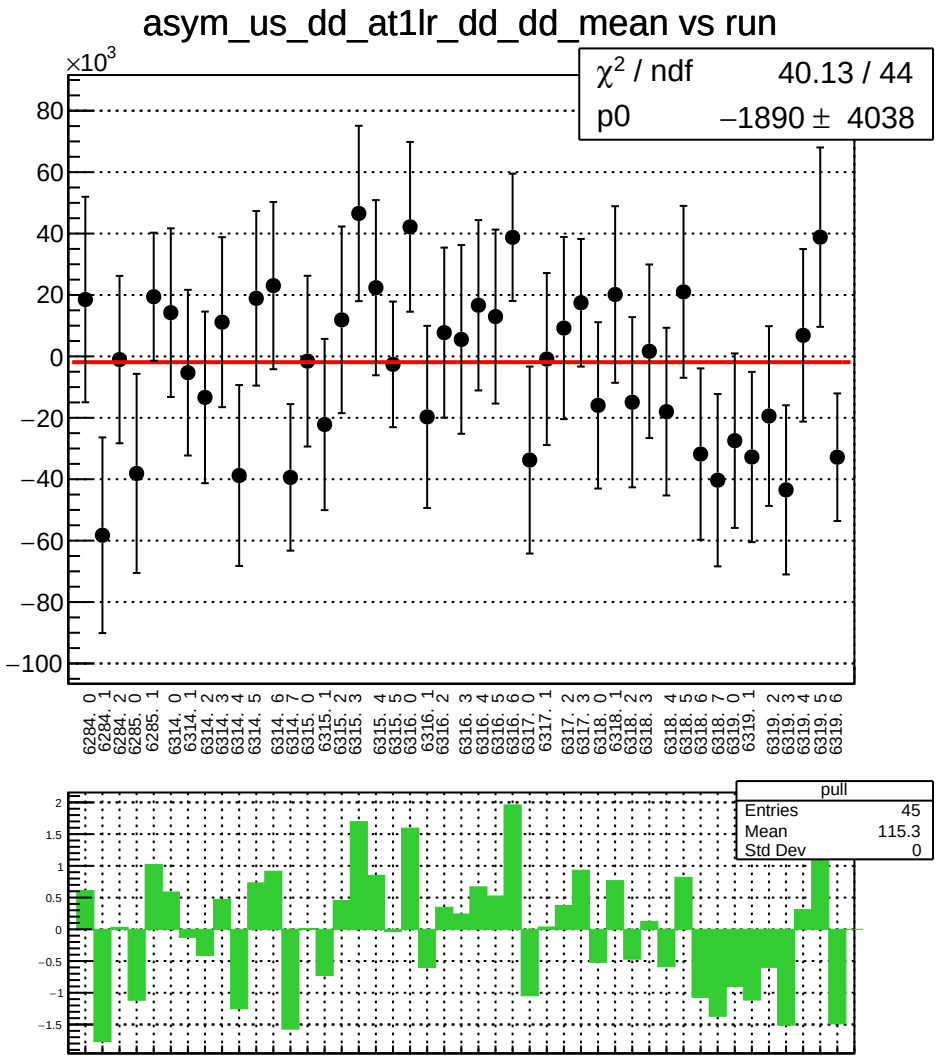
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01998
Std Dev 0.8455
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

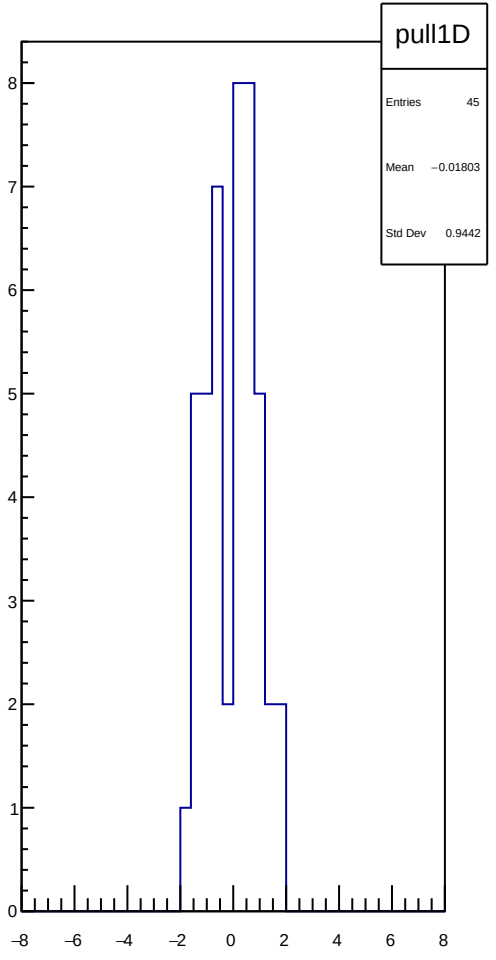

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 66.16 / 44
p0 1729 ± 1.815
1800
1780
1760
1740
1720
1700
1680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

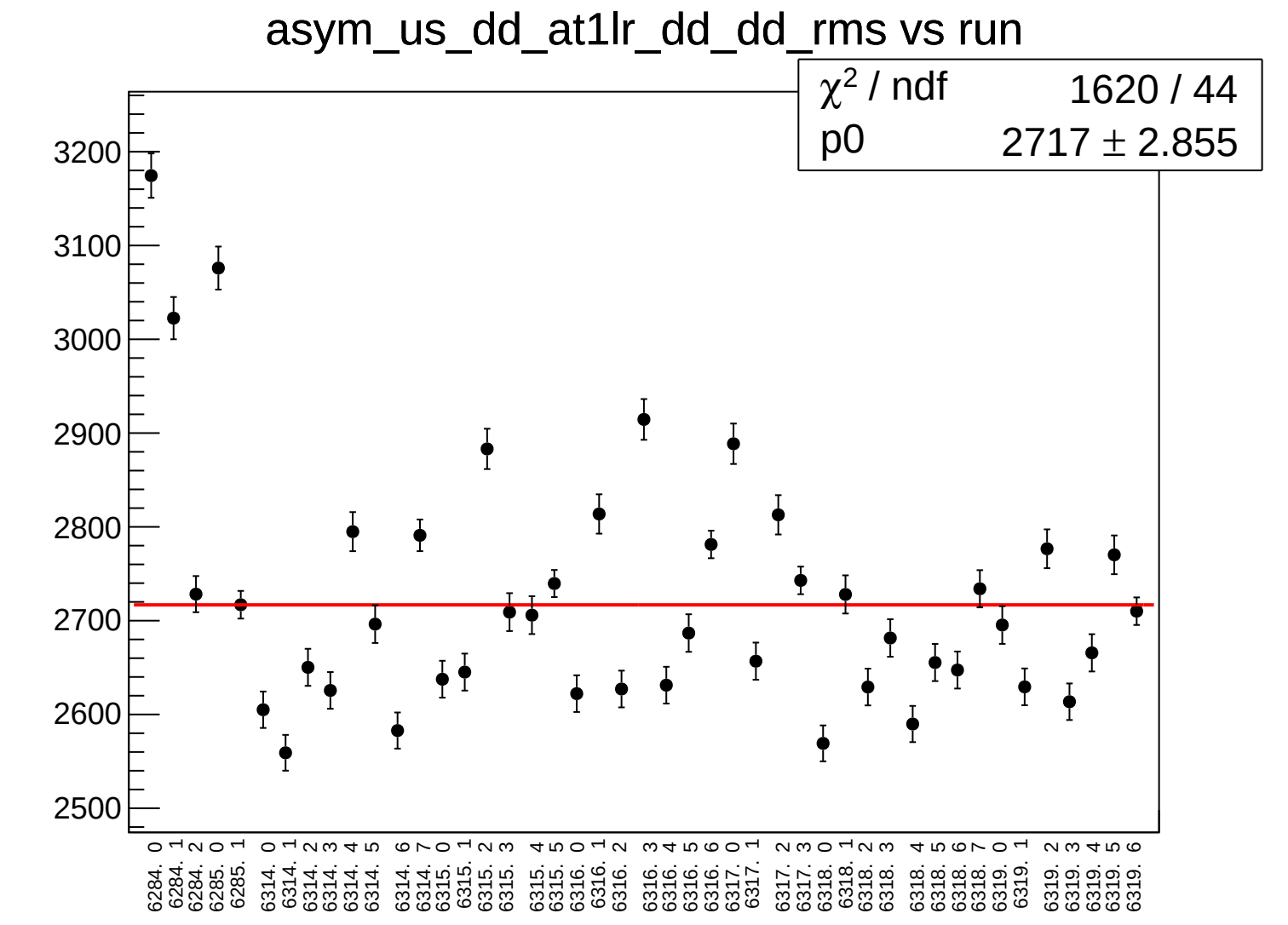

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.16 / 44
p0 −380.2 ± 3110
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 260.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

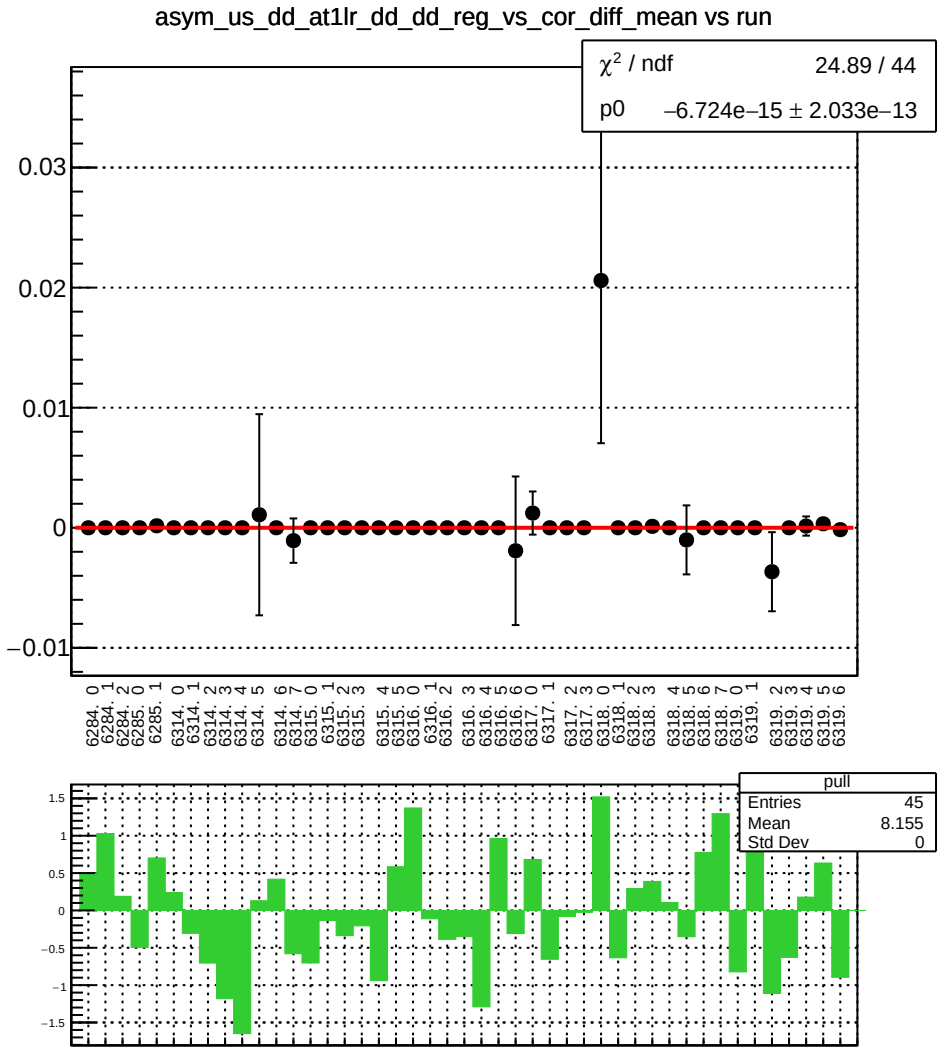

pull1D
Entries 45
Mean 0.005779
Std Dev 0.9679
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

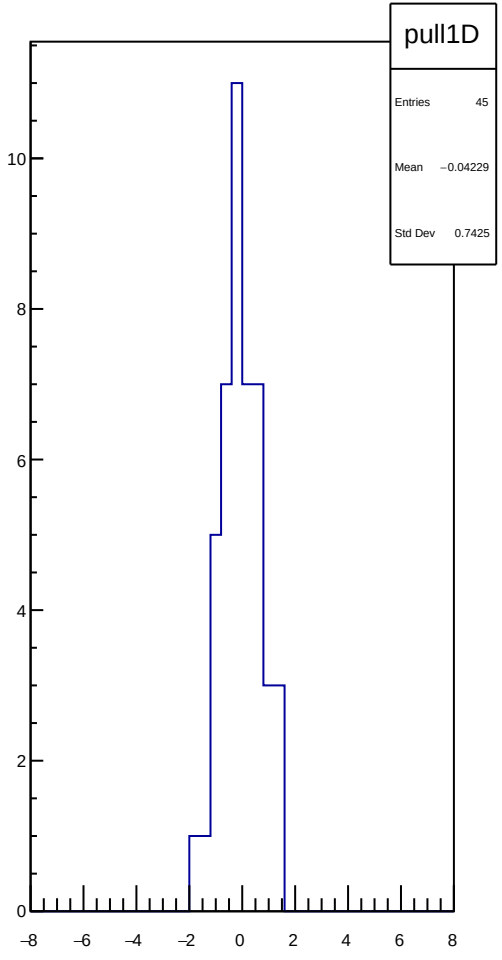

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4408 / 44
p0 2089 ± 2.199
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

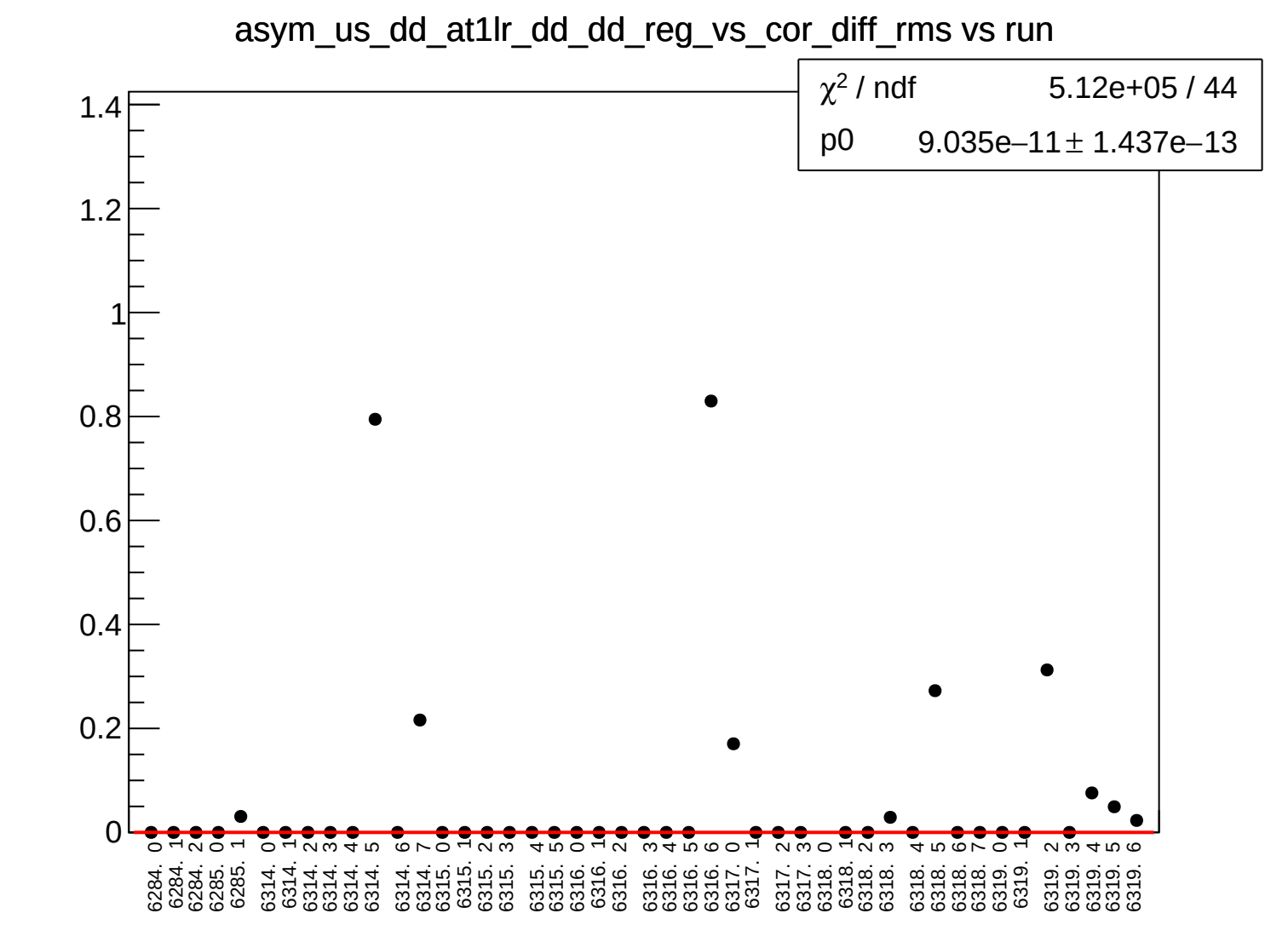

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 40.13 / 44
p0 −1890 ± 4038
×10³
pull
Entries 45
Mean 115.3
Std Dev 0

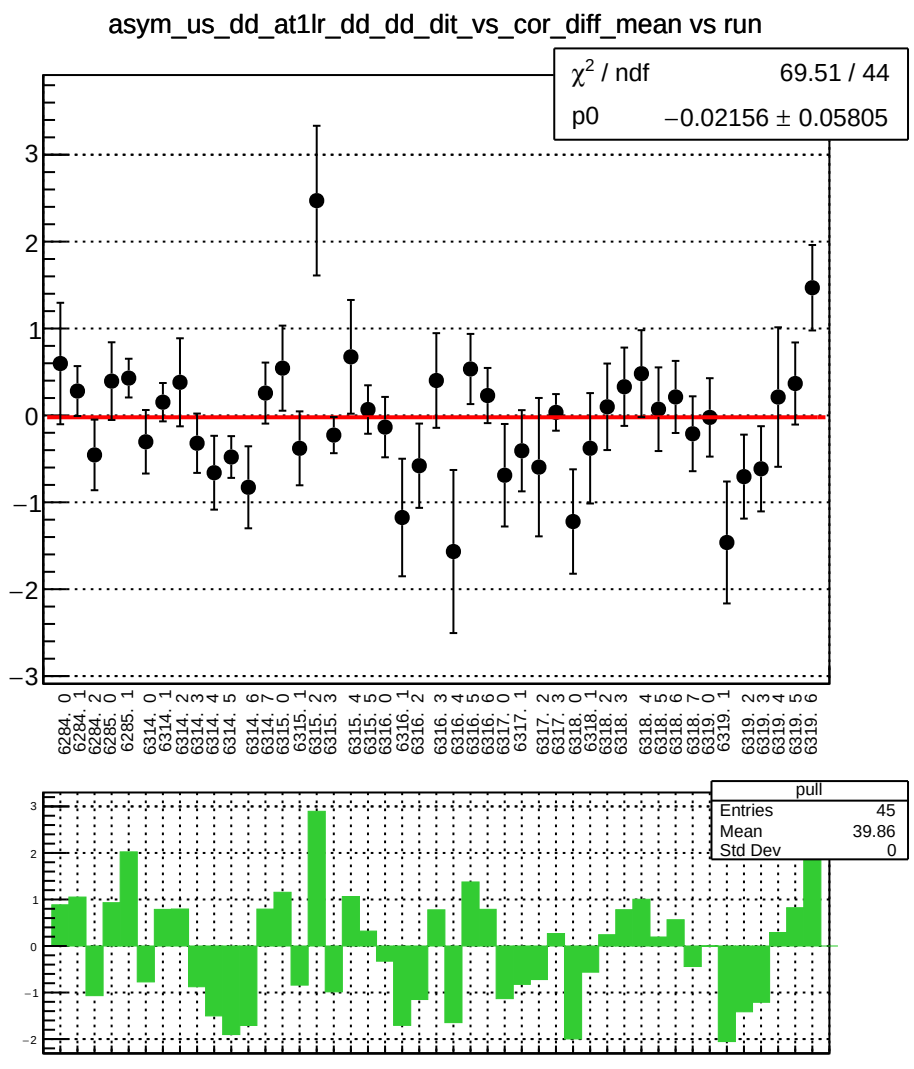

pull1D
Entries 45
Mean −0.01803
Std Dev 0.9442

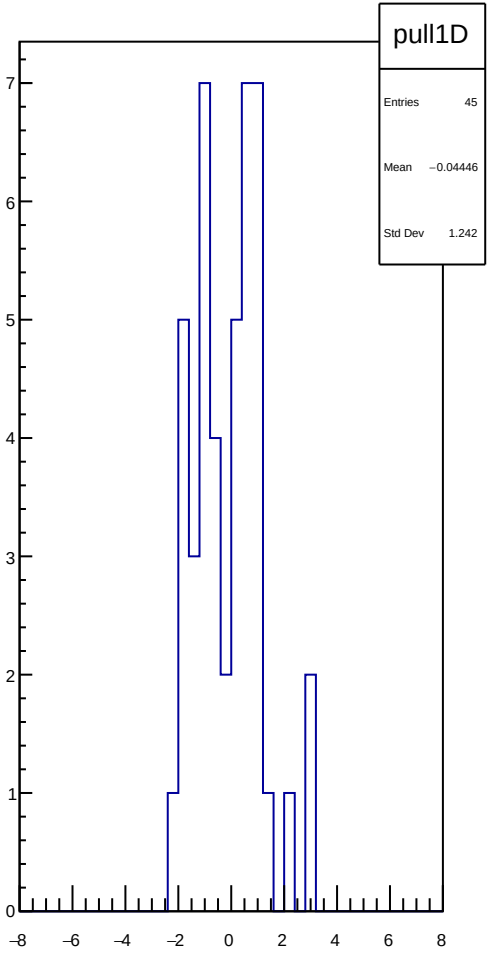

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1620 / 44
p0 2717 ± 2.855
3200
3100
3000
2900
2800
2700
2600
2500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

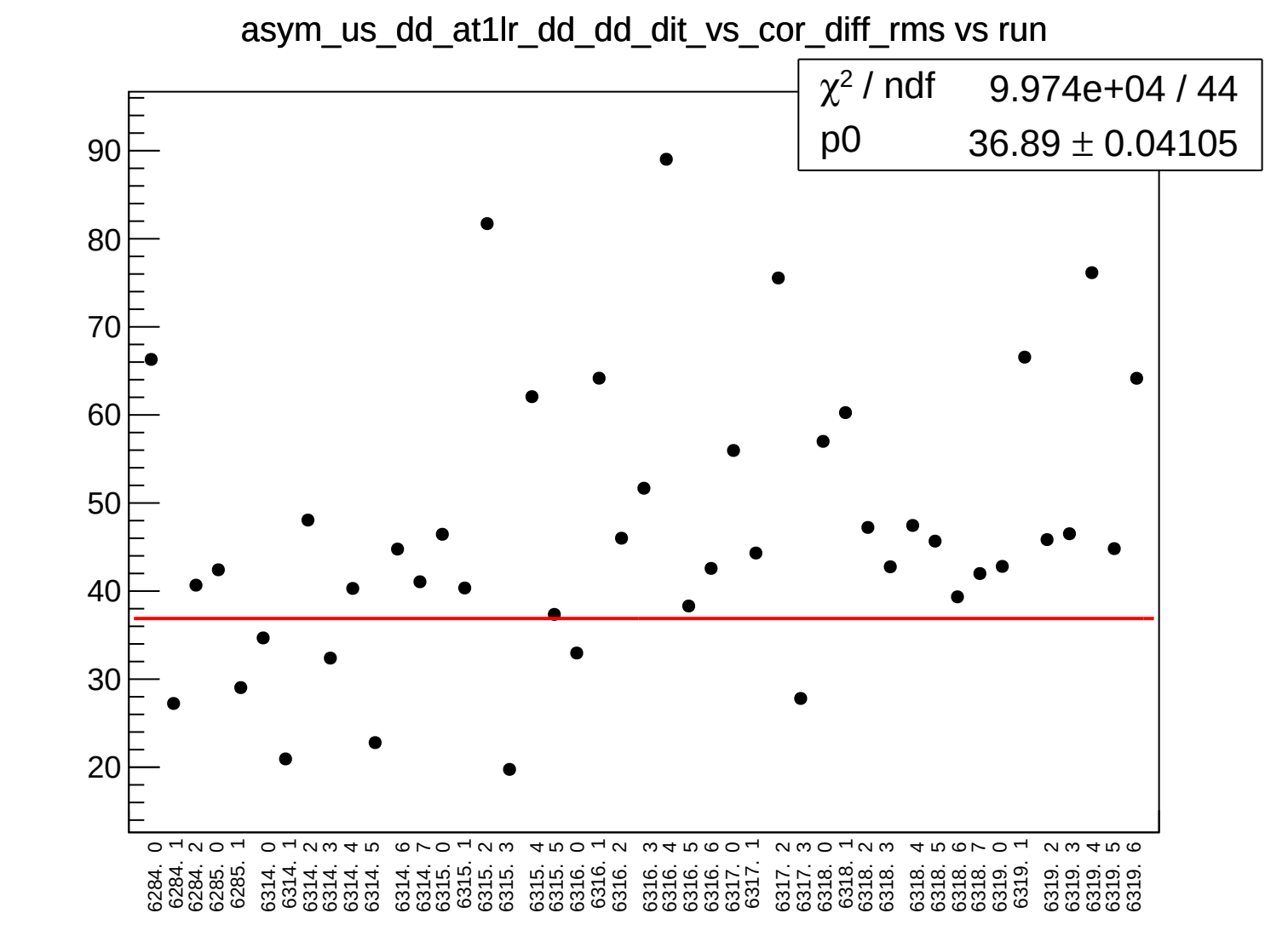

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.89 / 44
p0 −6.724e−15 ± 2.033e−13
0.03
0.02
0.01
0
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8.155
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

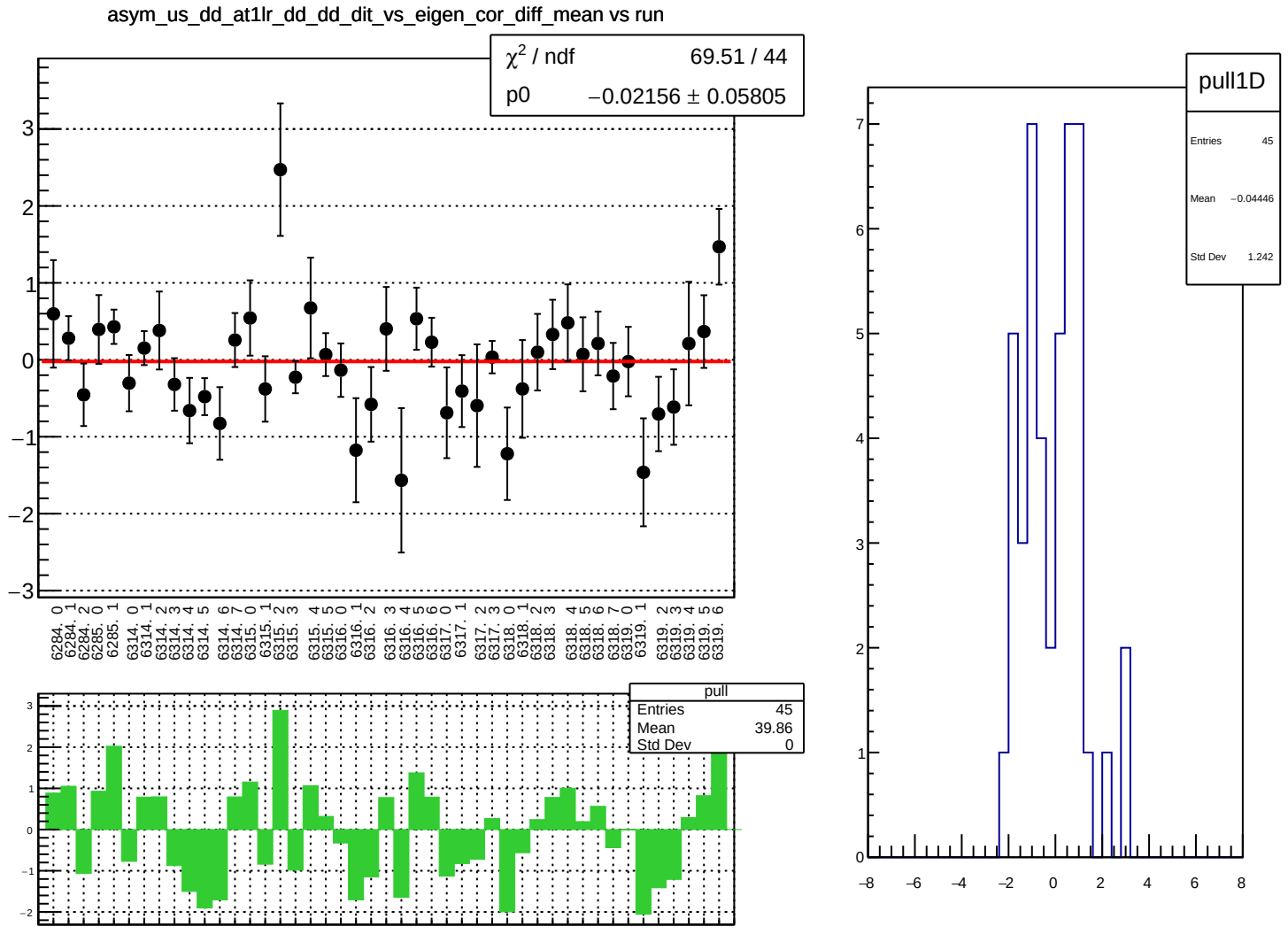

pull1D
Entries 45
Mean −0.04229
Std Dev 0.7425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

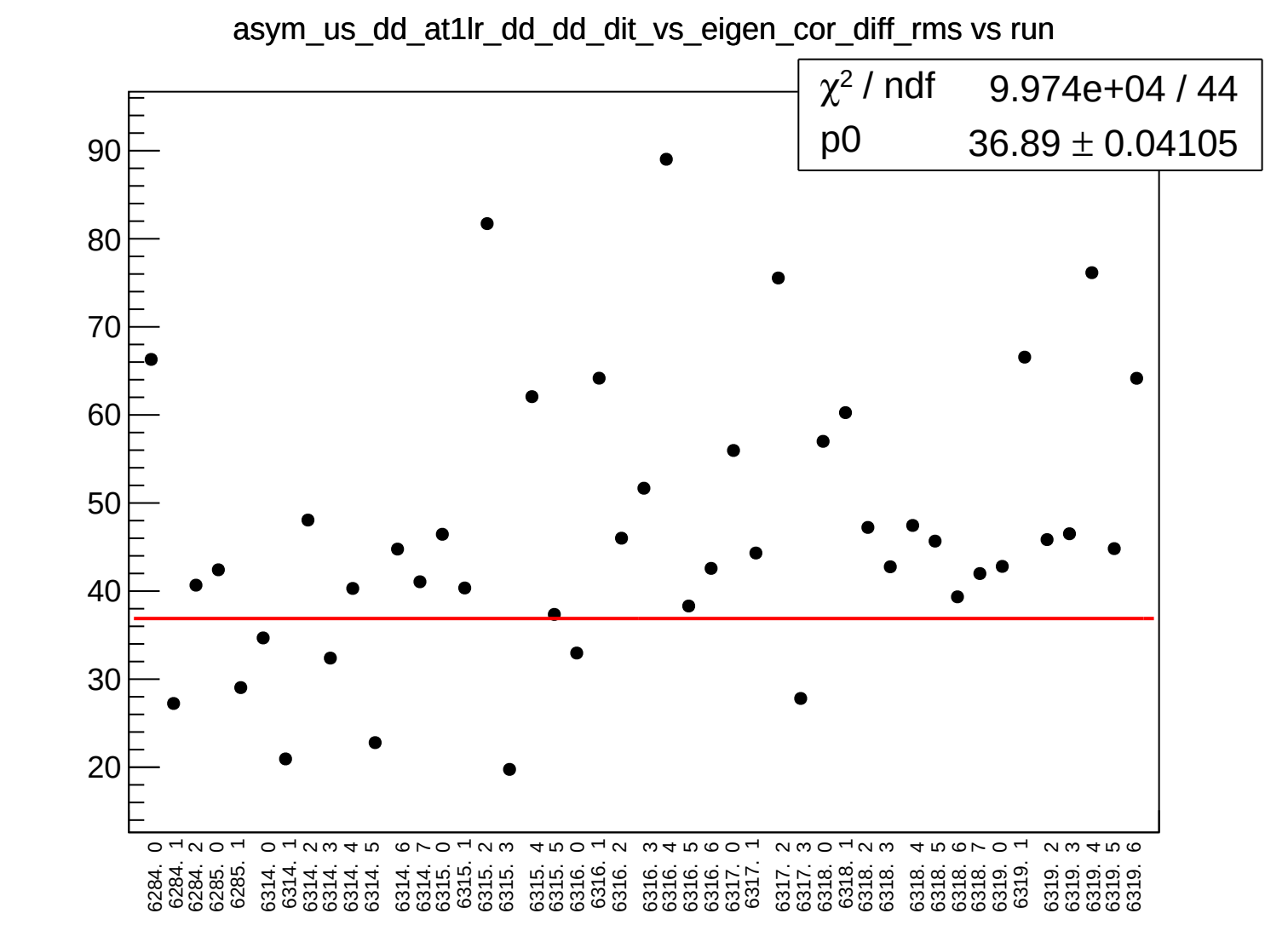

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.12e+05 / 44
p0 9.035e−11 ± 1.437e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

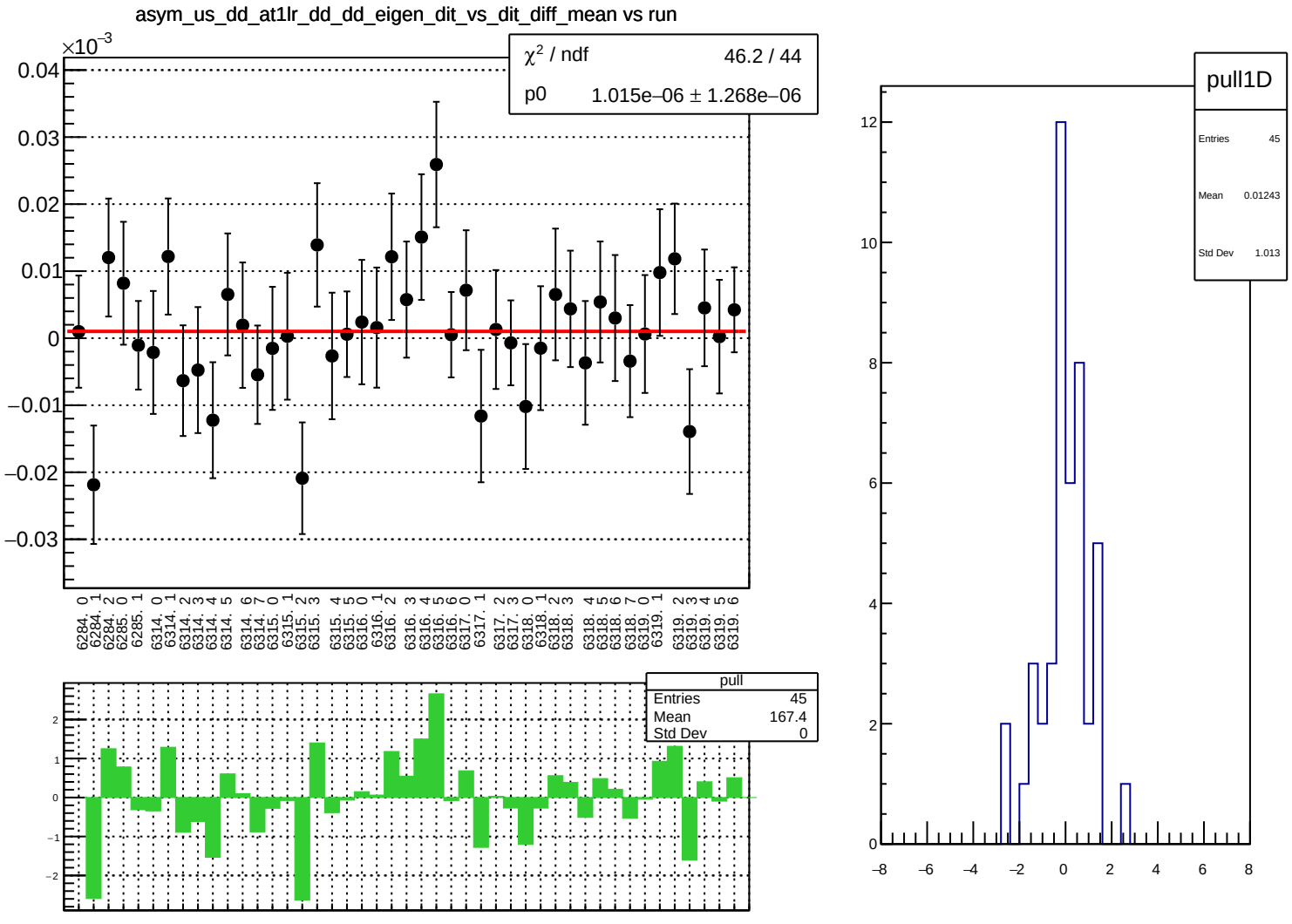

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.51 / 44
p0 −0.02156 ± 0.05805
pull
Entries 45
Mean 39.86
Std Dev 0

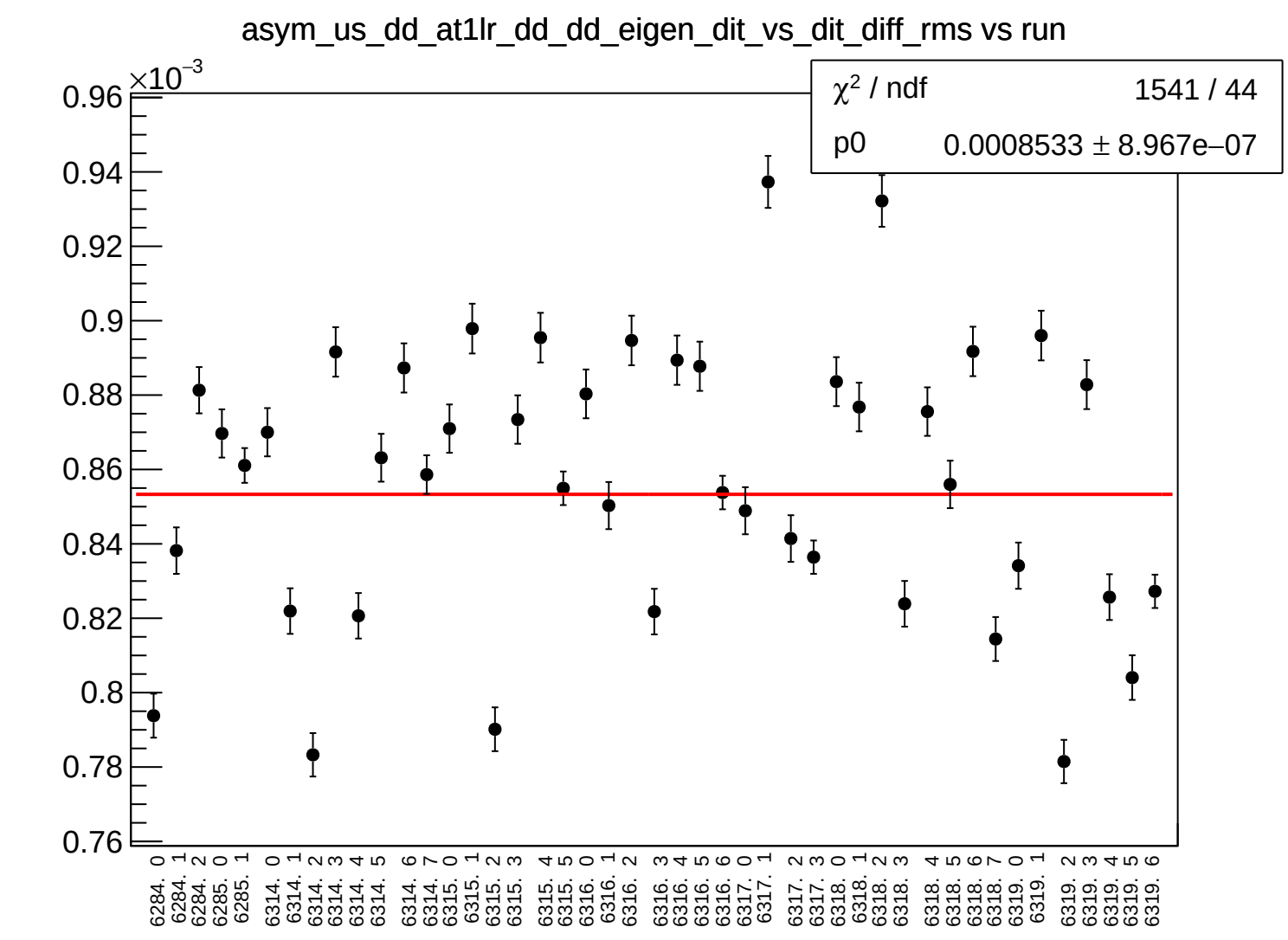

pull1D
Entries 45
Mean −0.04446
Std Dev 1.242

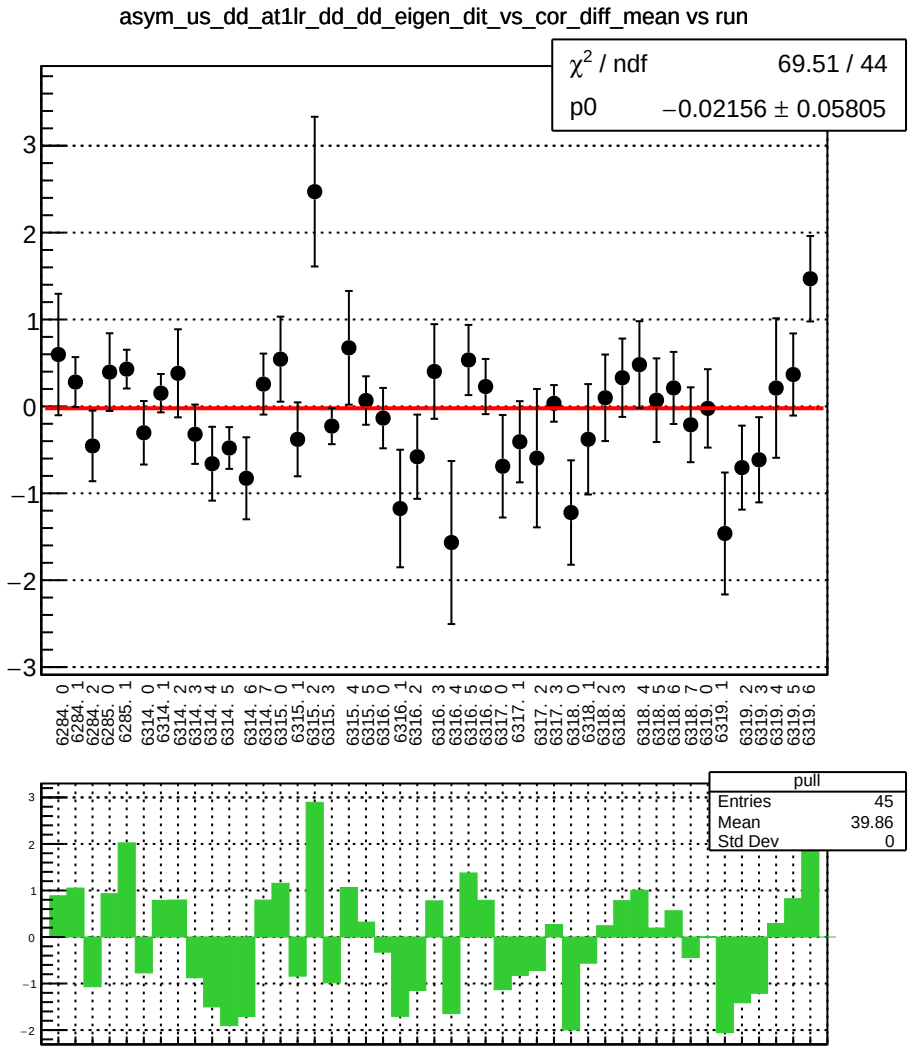

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.974e+04 / 44
p0 36.89 ± 0.04105
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

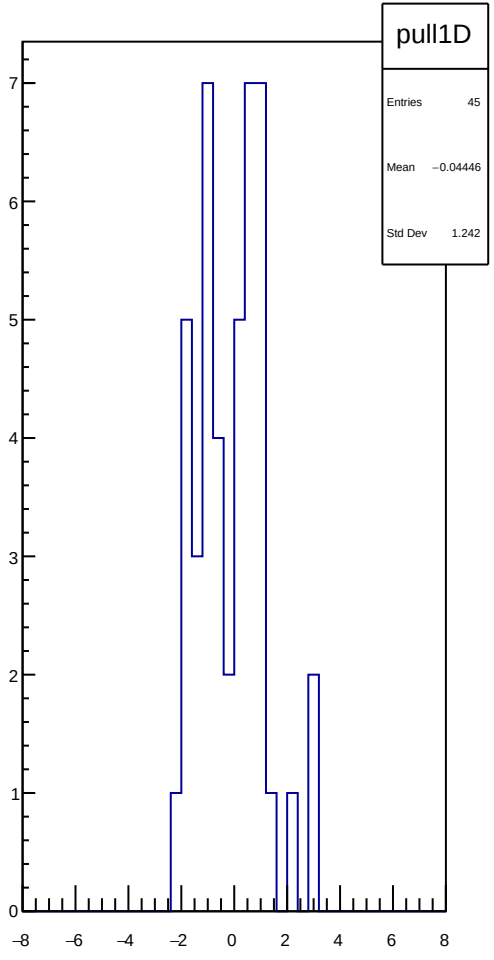

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.51 / 44
p0 −0.02156 ± 0.05805
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 39.86
Std Dev 0
pull1D
Entries 45
Mean −0.04446
Std Dev 1.242

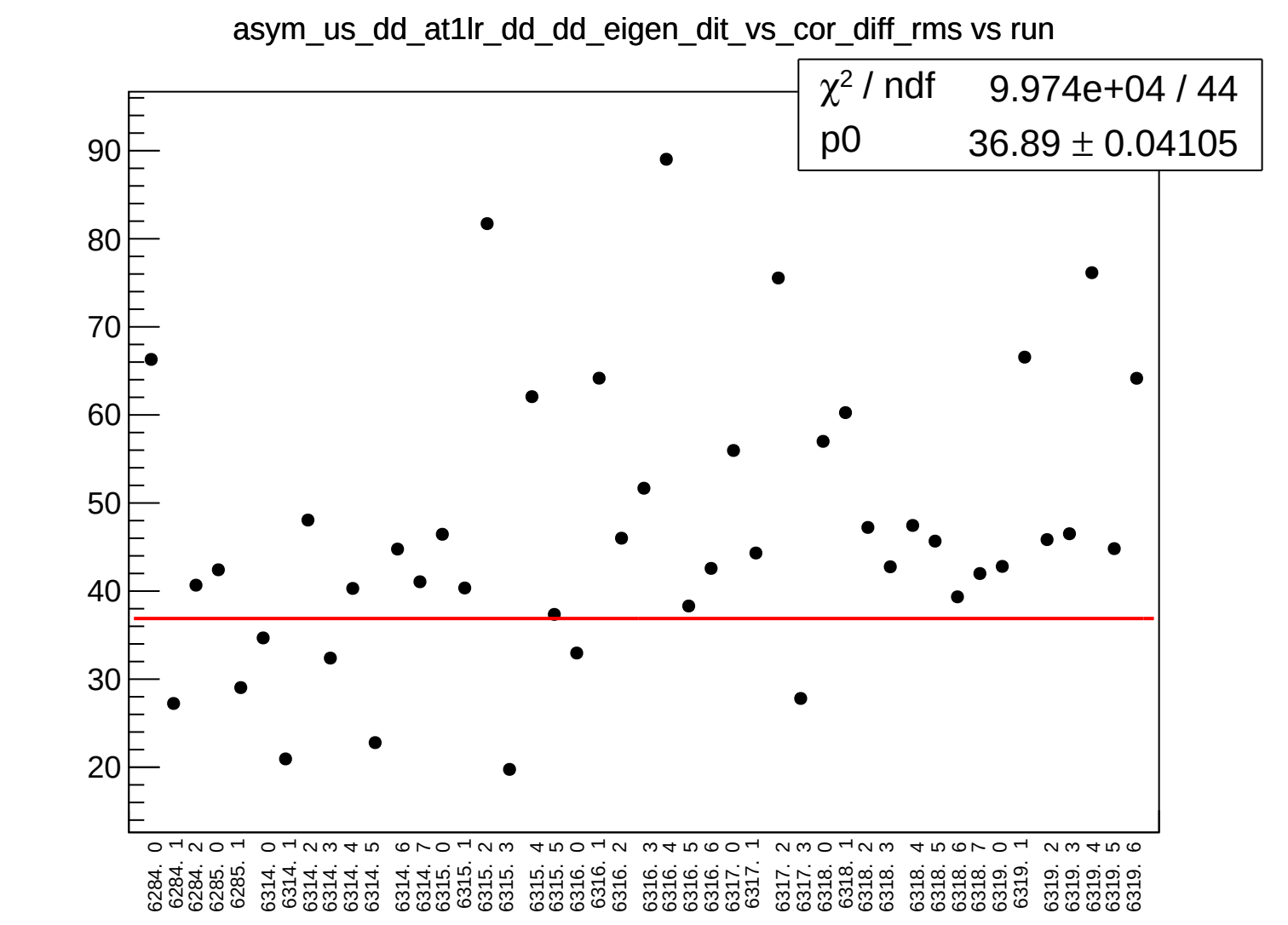

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.974e+04 / 44
p0 36.89 ± 0.04105
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

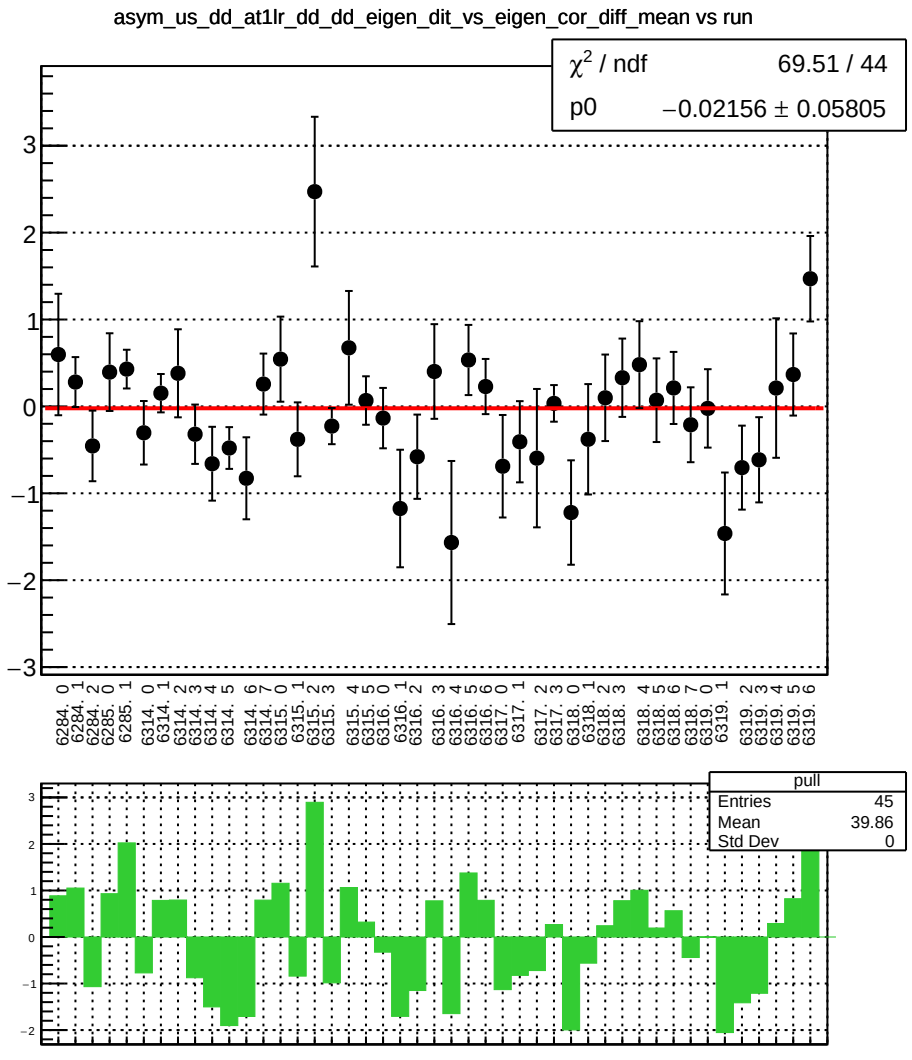

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.2 / 44
p0 1.015e−06 ± 1.268e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 167.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01243
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

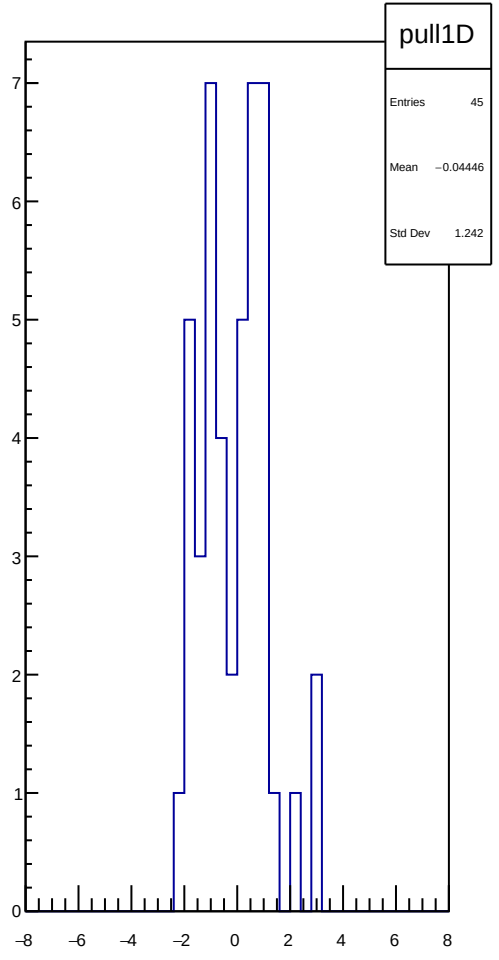

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1541 / 44
p0 0.0008533 ± 8.967e−07
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

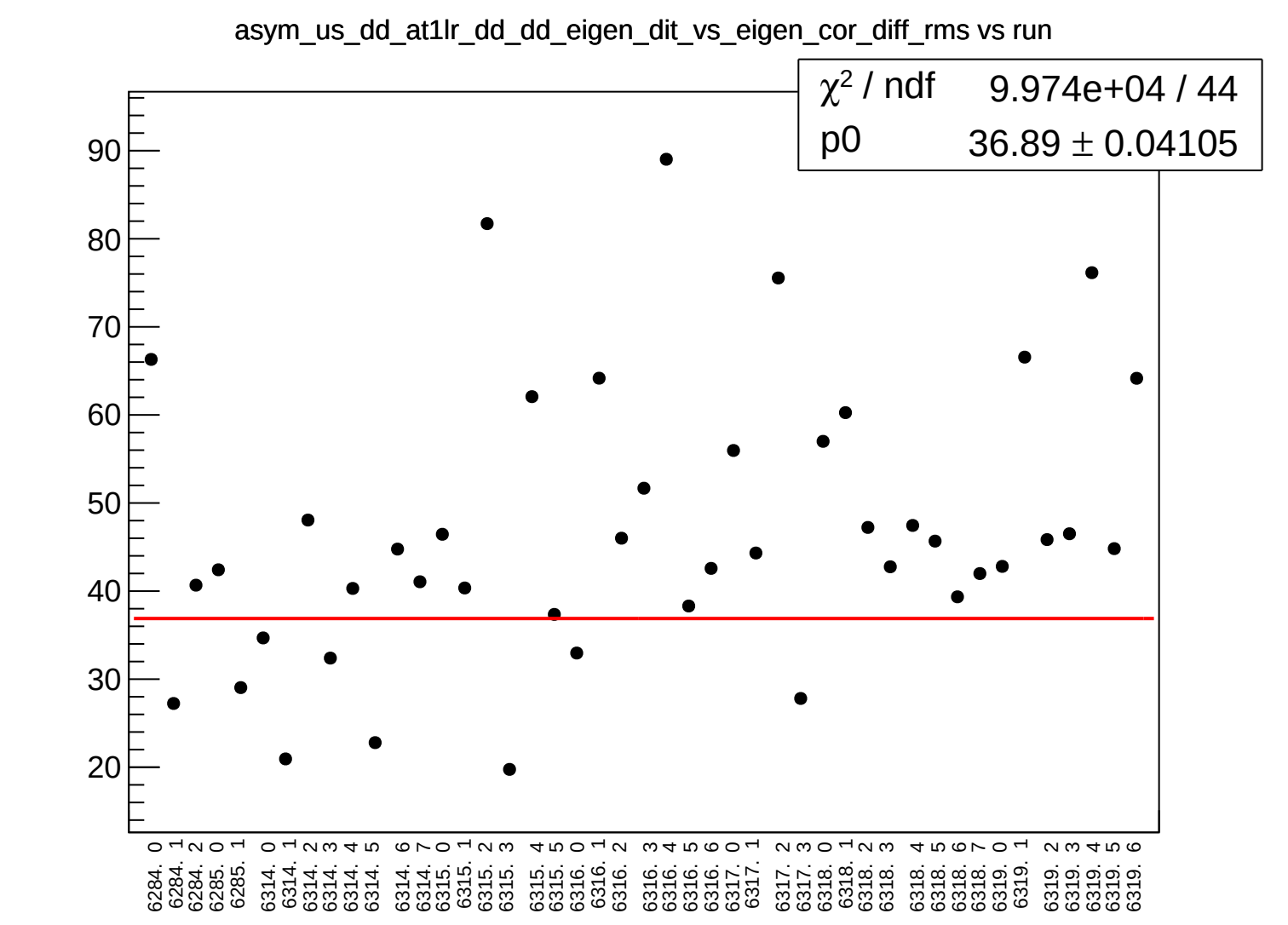

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.51 / 44
p0 −0.02156 ± 0.05805
pull
Entries 45
Mean 39.86
Std Dev 0

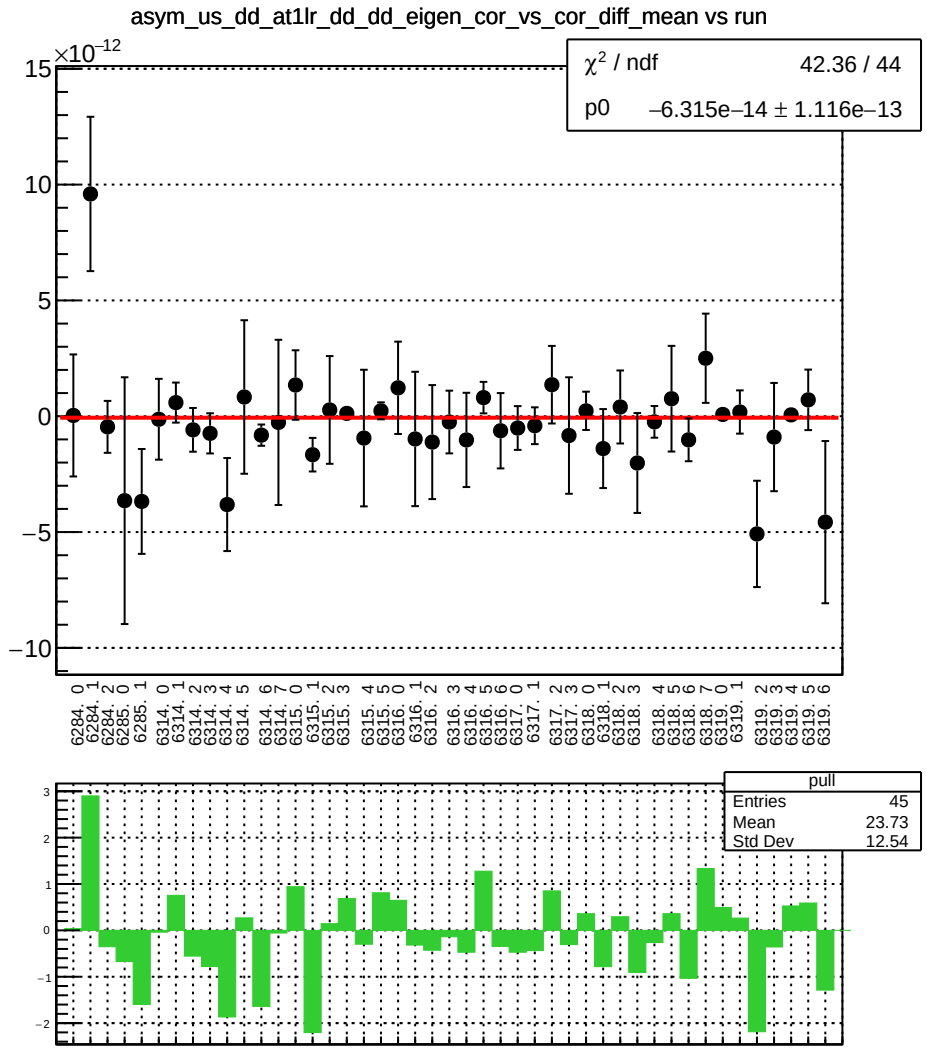

pull1D
Entries 45
Mean −0.04446
Std Dev 1.242

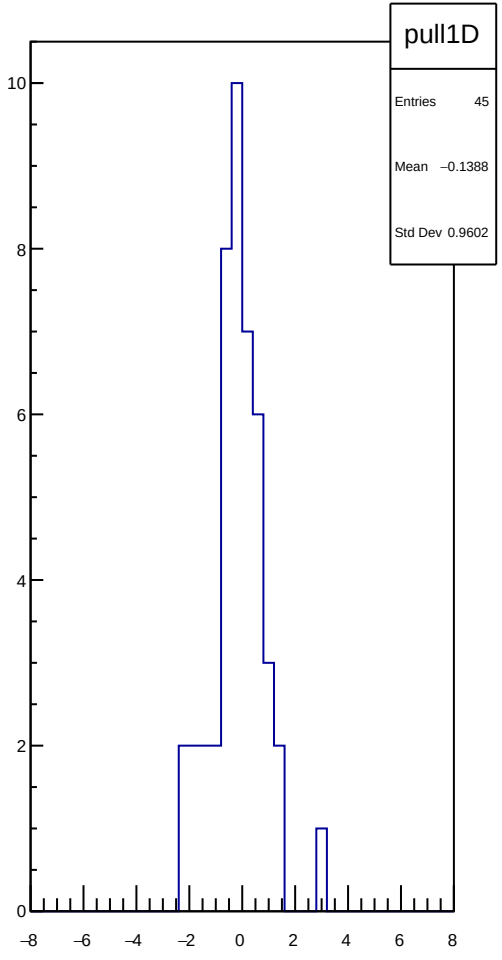

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.974e+04 / 44
p0 36.89 ± 0.04105
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

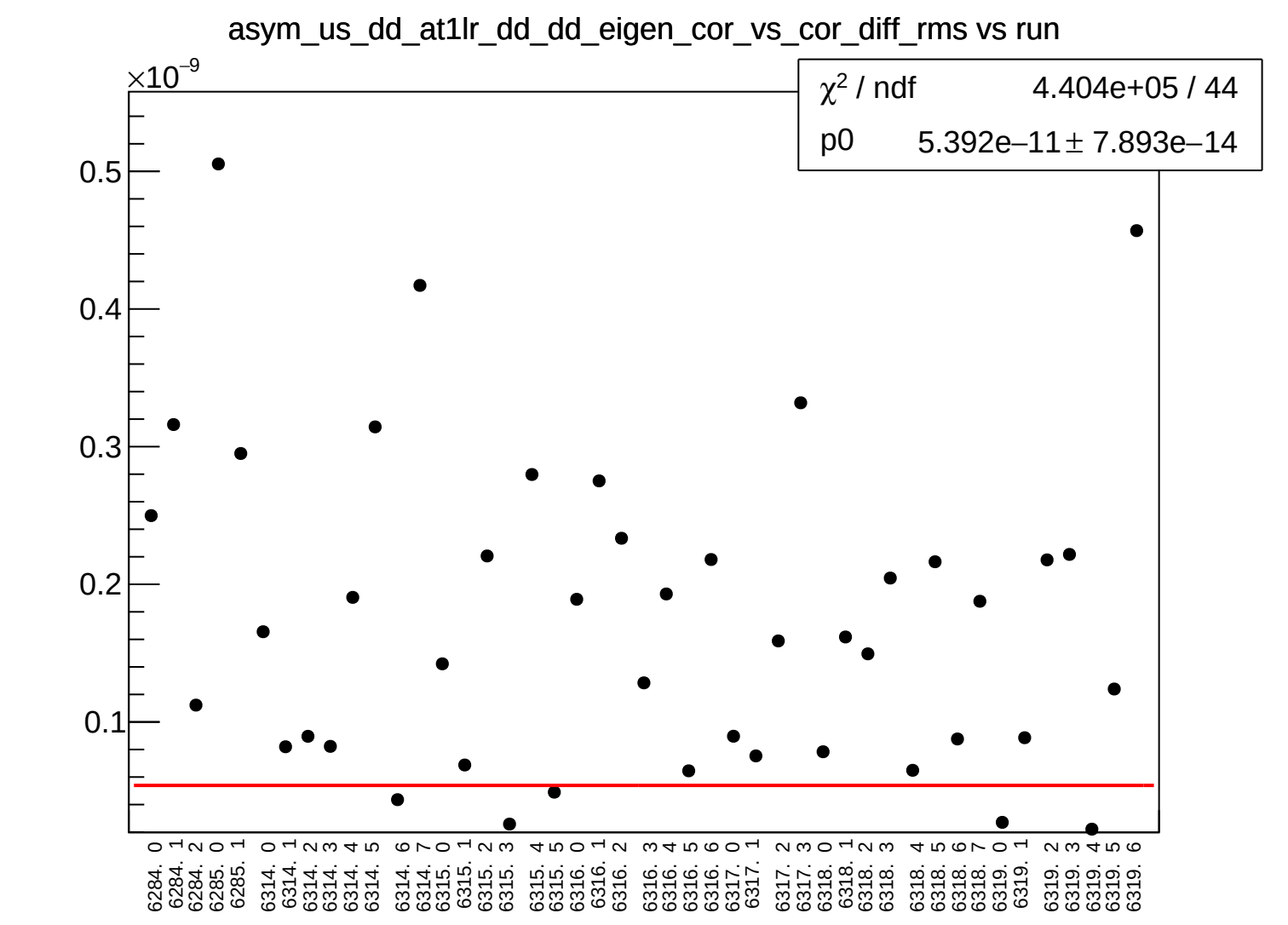

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.51 / 44
p0 −0.02156 ± 0.05805
pull
Entries 45
Mean 39.86
Std Dev 0

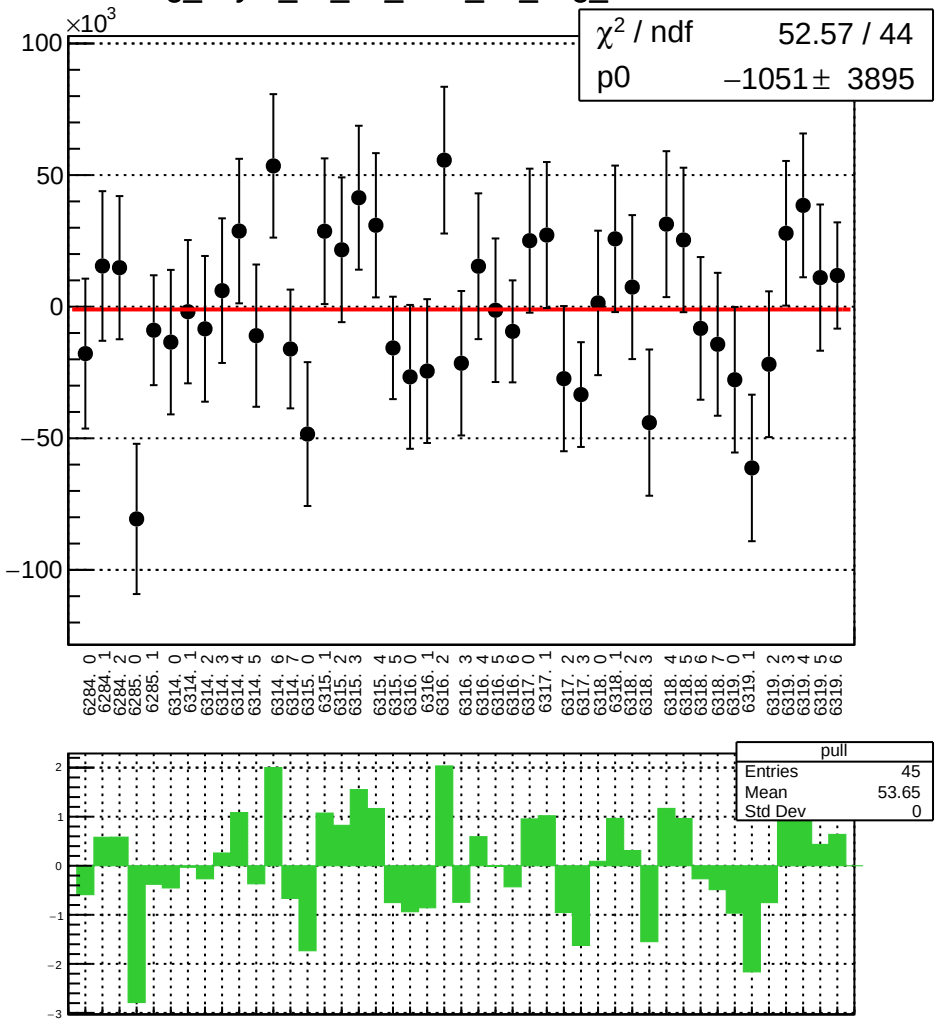

pull1D
Entries 45
Mean −0.04446
Std Dev 1.242

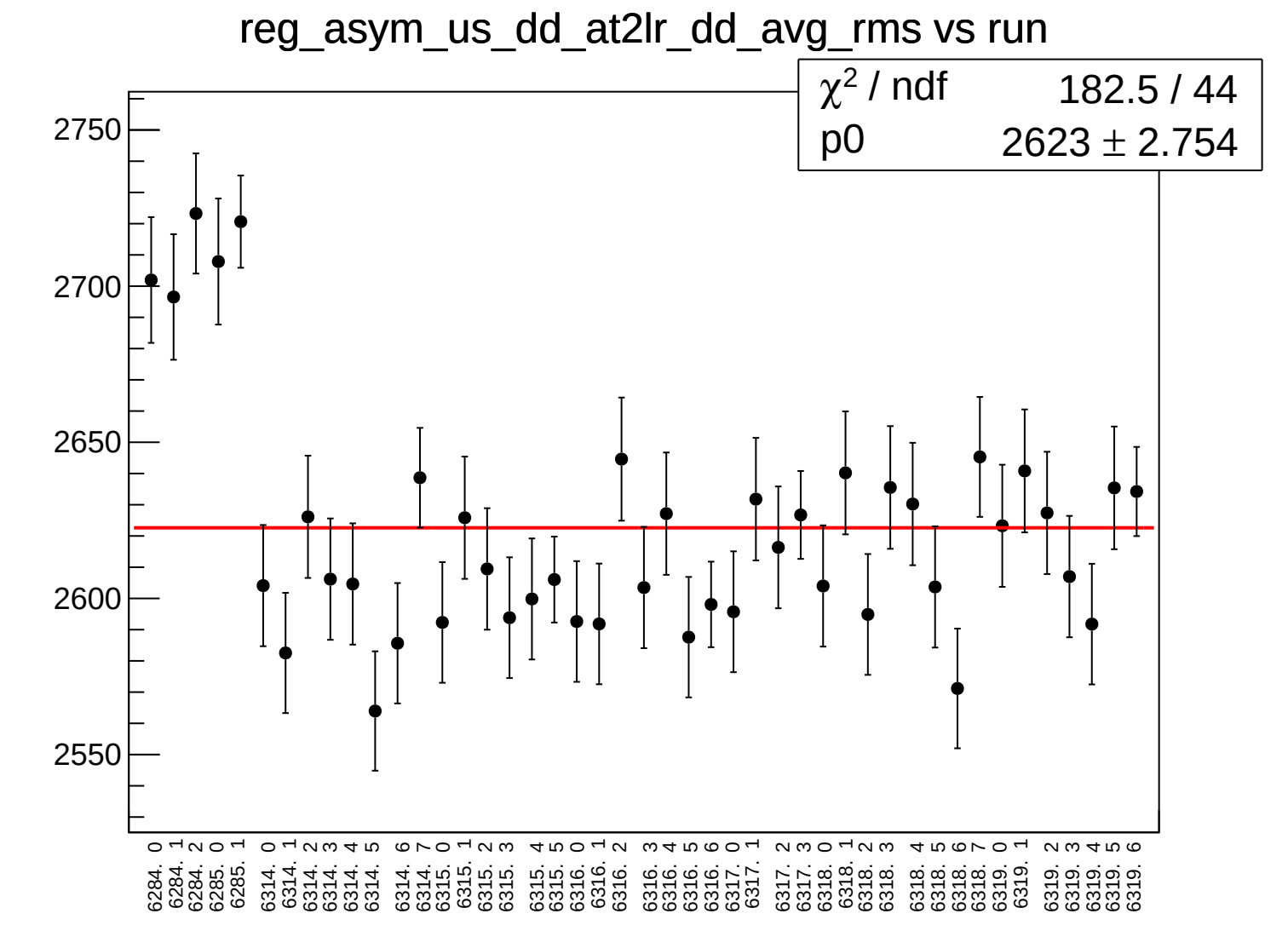

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.974e+04 / 44
p0 36.89 ± 0.04105
90
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

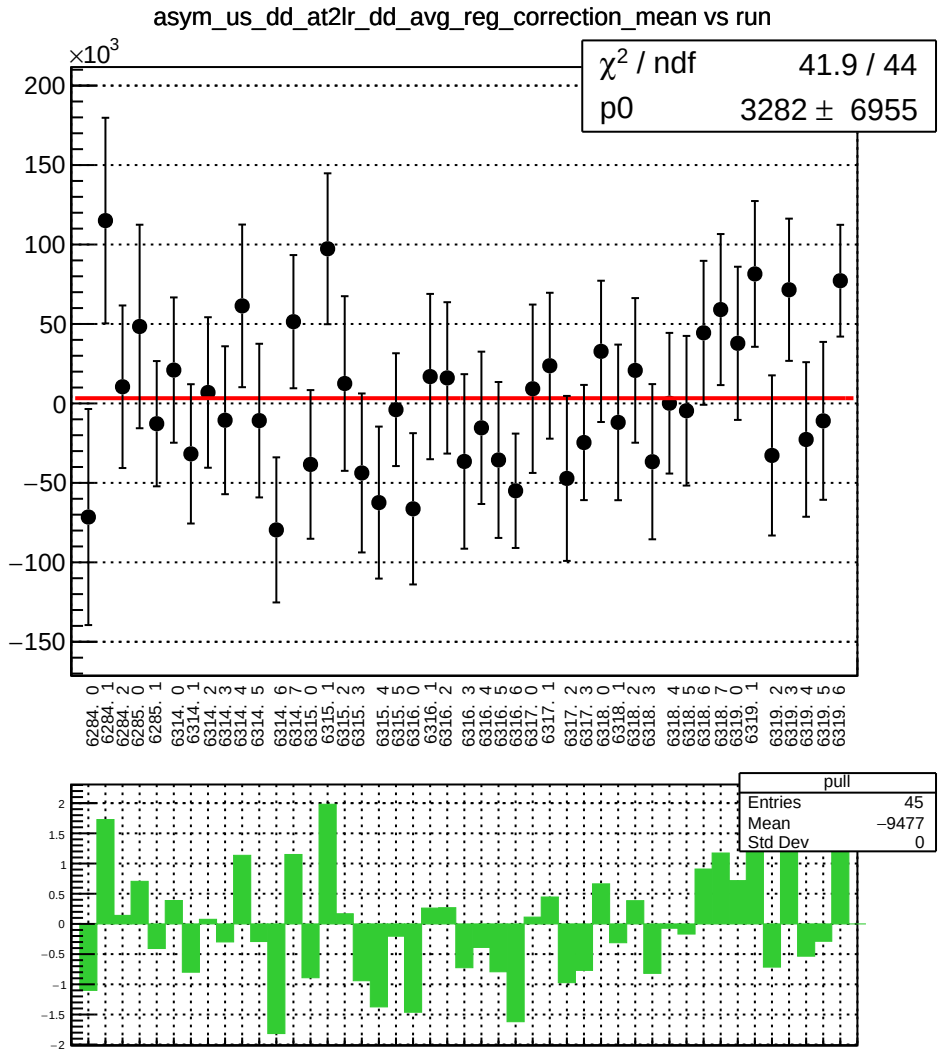

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.36 / 44
p0 −6.315e−14 ± 1.116e−13
pull
Entries 45
Mean 23.73
Std Dev 12.54

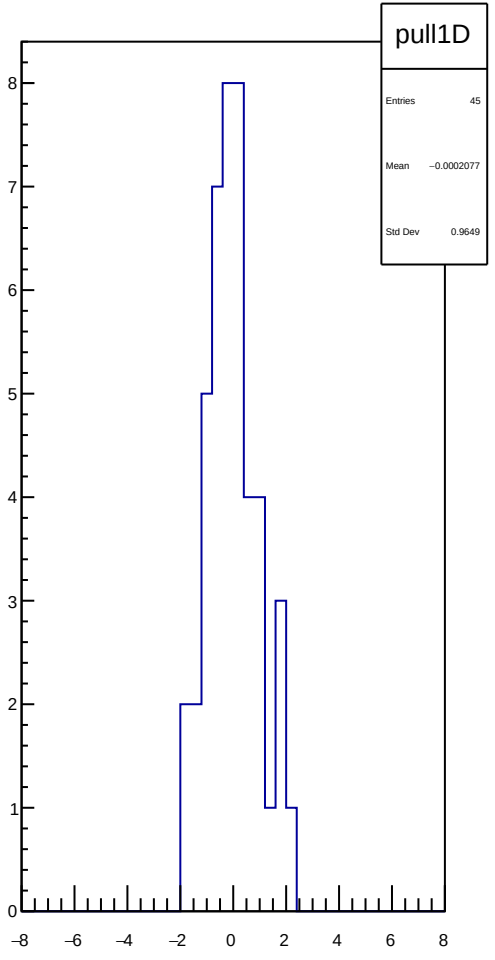

pull1D
Entries 45
Mean −0.1388
Std Dev 0.9602

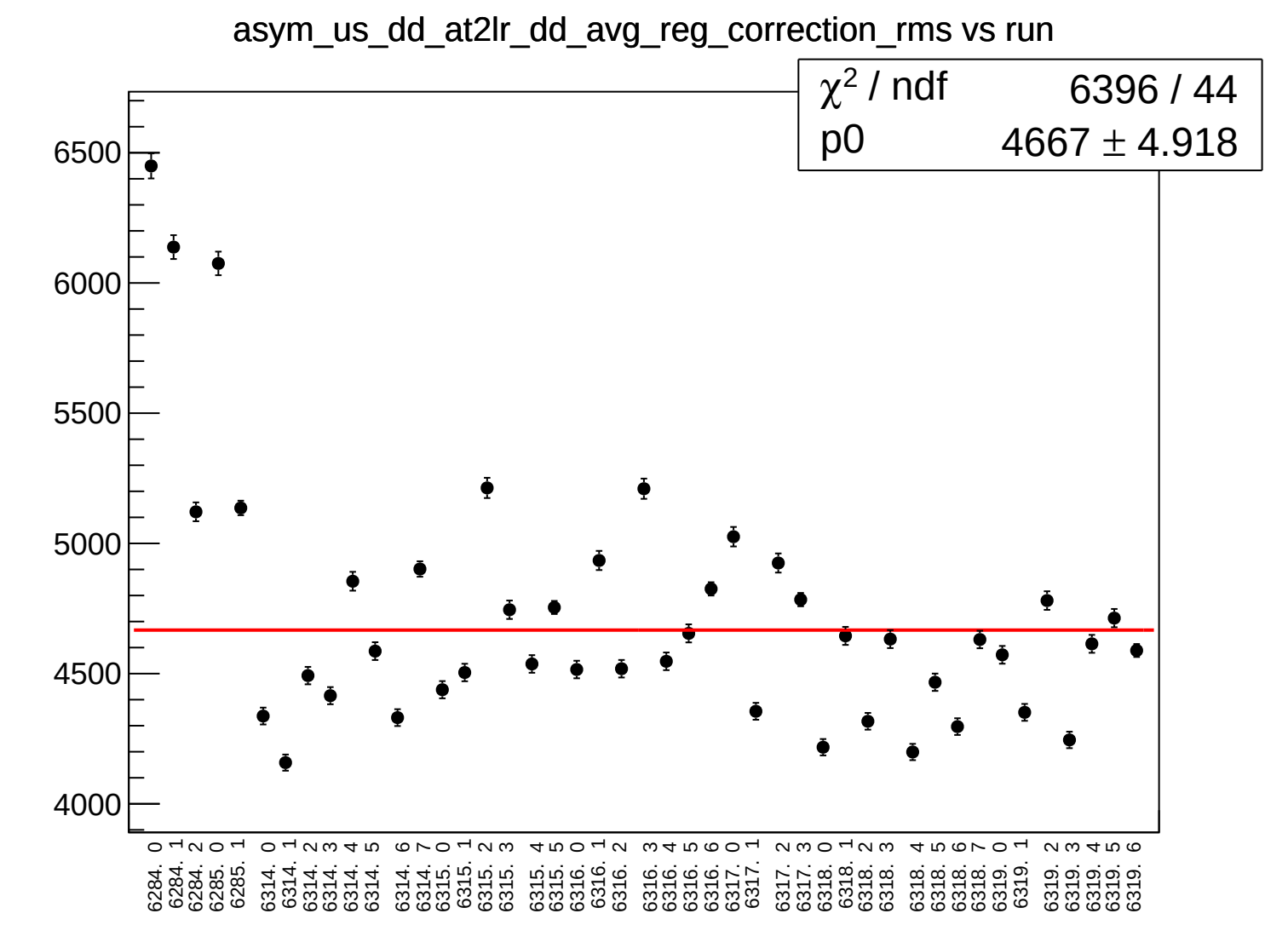

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.404e+05 / 44
p0 5.392e−11 ± 7.893e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

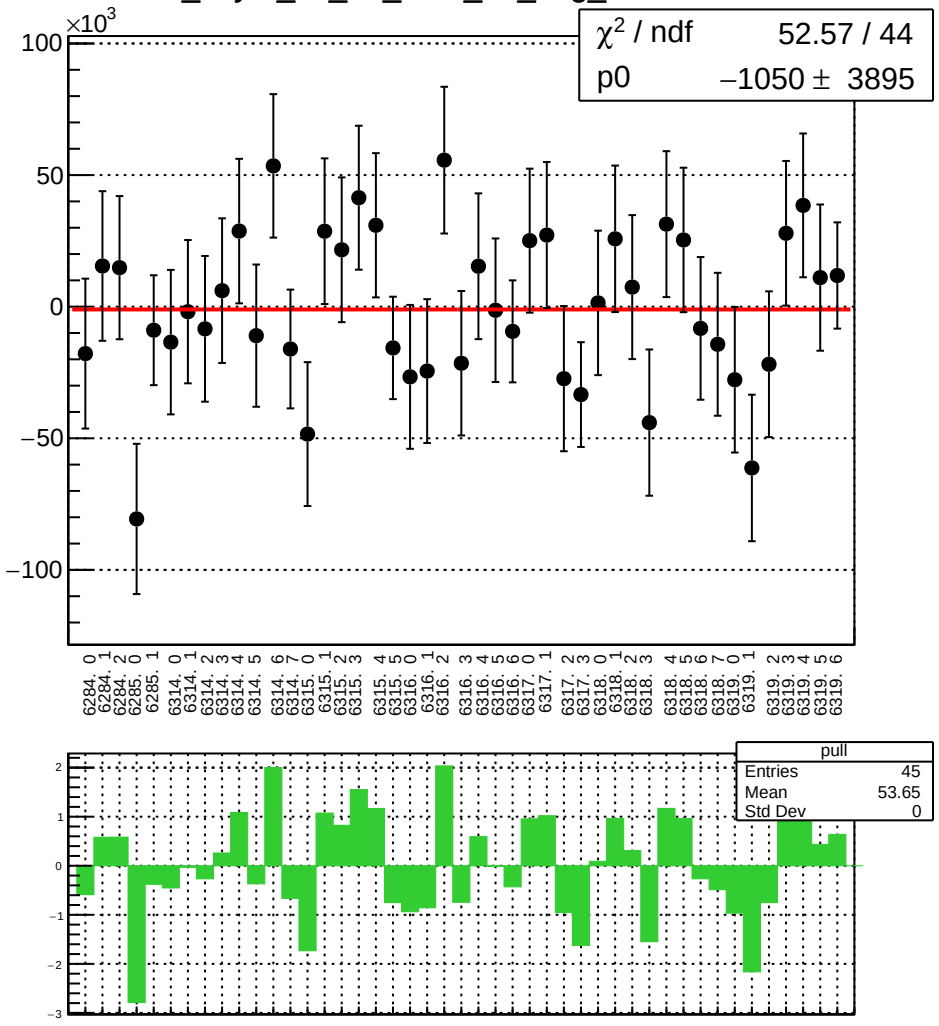

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 52.57 / 44
p0 −1051 ± 3895
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 53.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02314
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

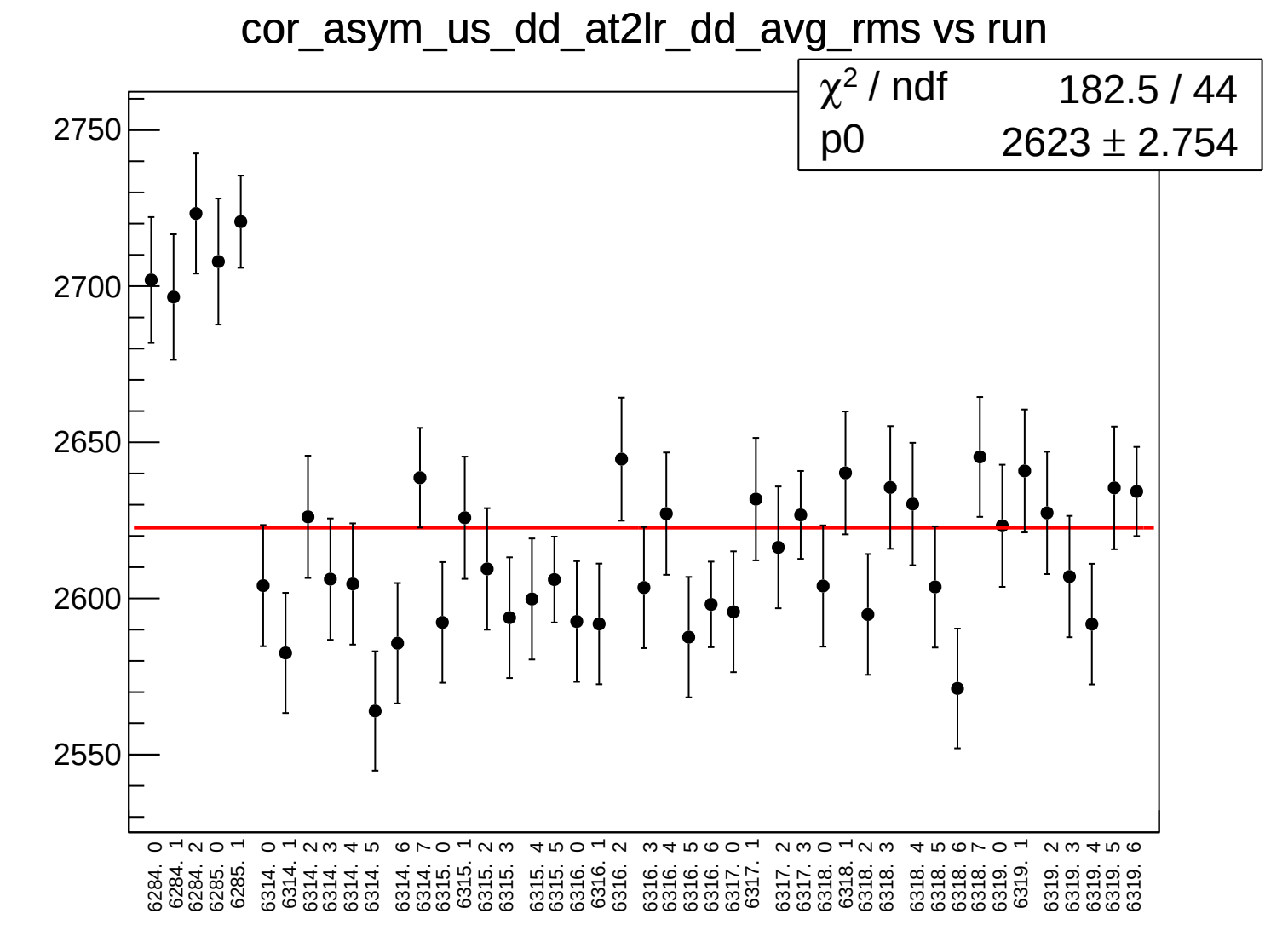

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 182.5 / 44
p0 2623 ± 2.754
2750
2700
2650
2600
2550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.9 / 44
p0 3282 ± 6955
pull
Entries 45
Mean −9477
Std Dev 0


pull1D
Entries 45
Mean −0.0002077
Std Dev 0.9649


asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6396 / 44
p0 4667 ± 4.918
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 52.57 / 44
p0 −1050 ± 3895
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 53.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02314
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 182.5 / 44
p0 2623 ± 2.754
2750
2700
2650
2600
2550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
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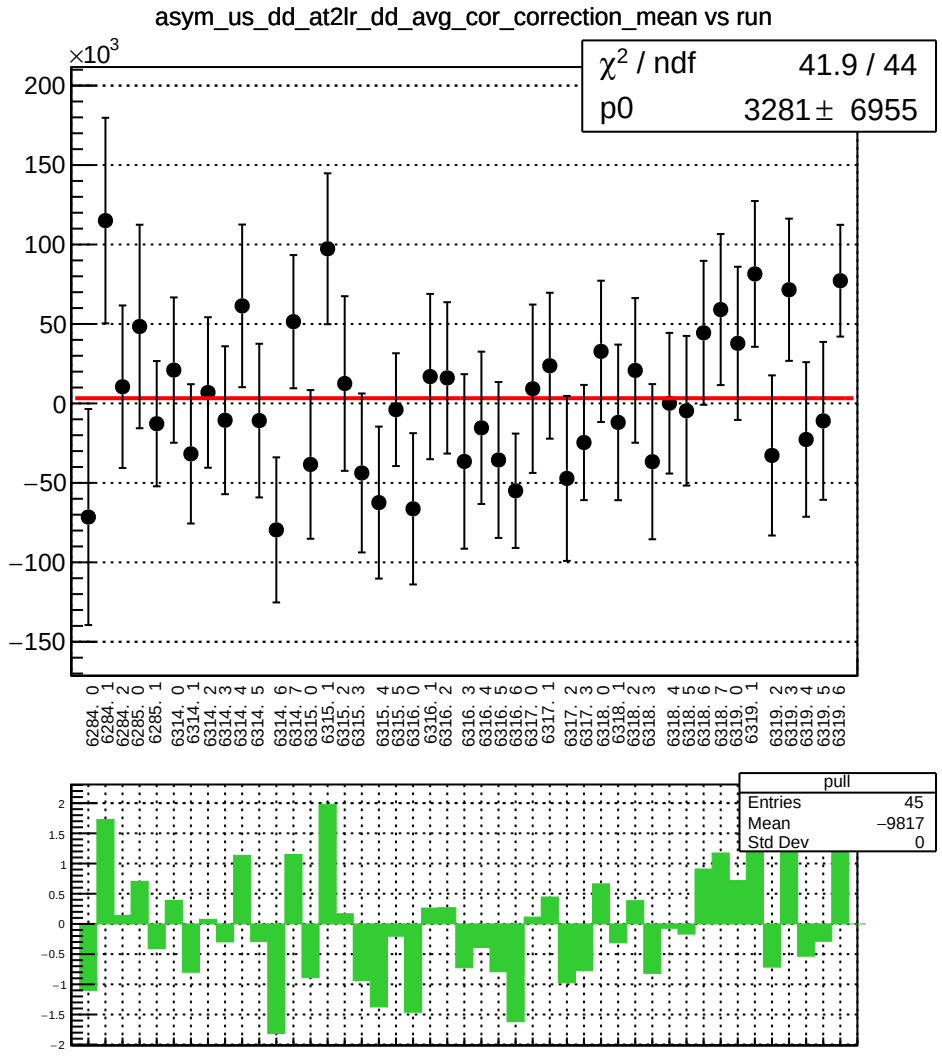
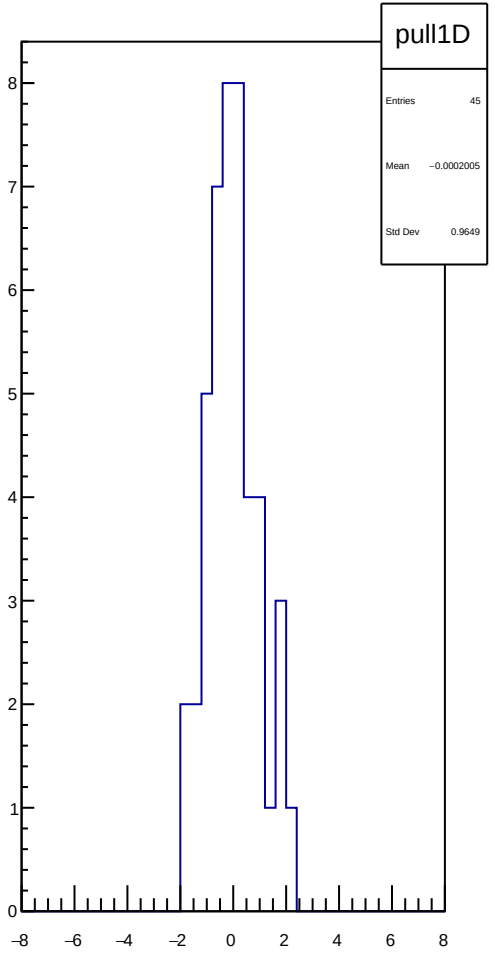
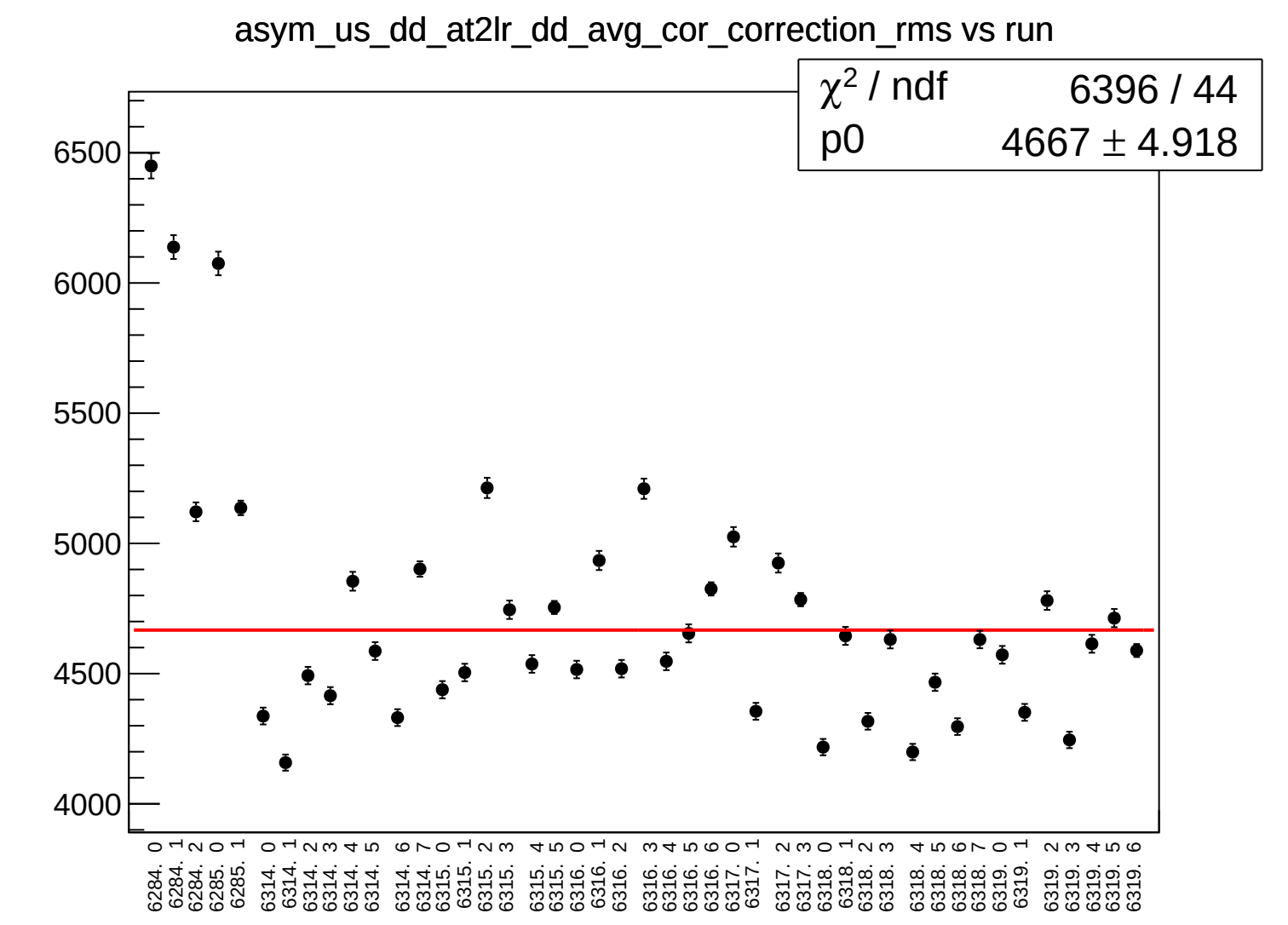
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.9 / 44
p0 3281 ± 6955
pull
Entries 45
Mean −9817
Std Dev 0


pull1D
Entries 45
Mean −0.0002005
Std Dev 0.9649


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6396 / 44
p0 4667 ± 4.918
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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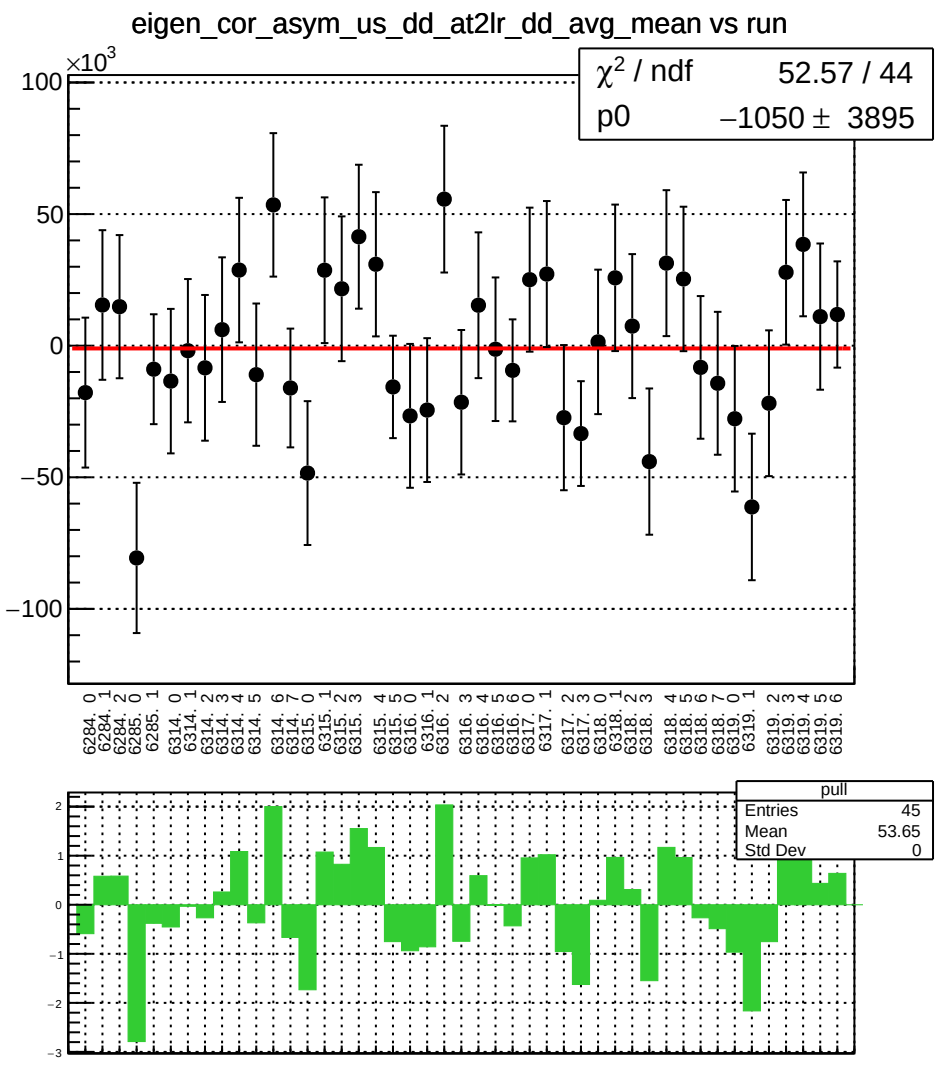
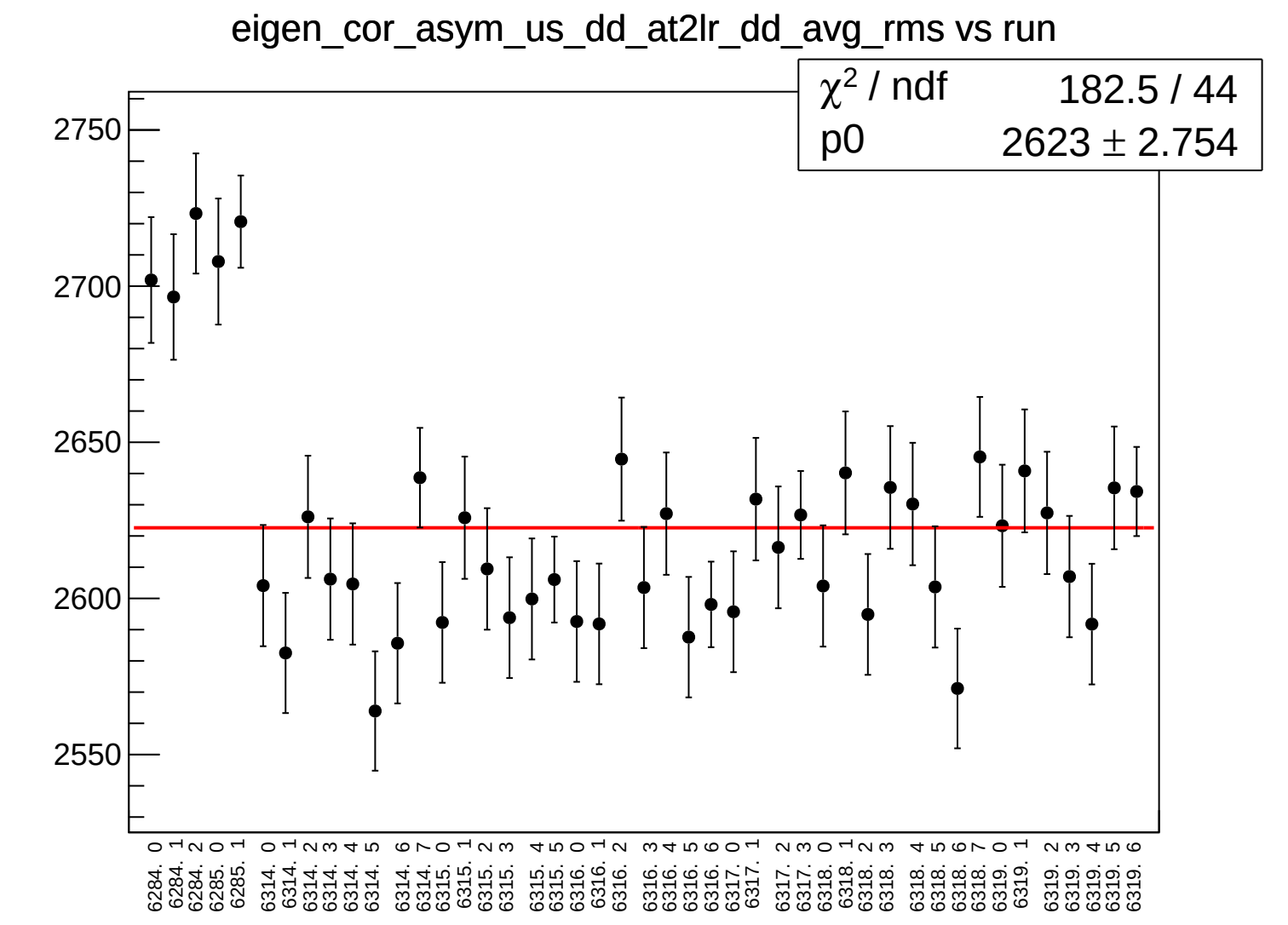
6319. 5
6319. 6


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 52.57 / 44
p0 −1050 ± 3895
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 53.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02314
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 182.5 / 44
p0 2623 ± 2.754
2750
2700
2650
2600
2550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 2
6316. 3
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 2
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6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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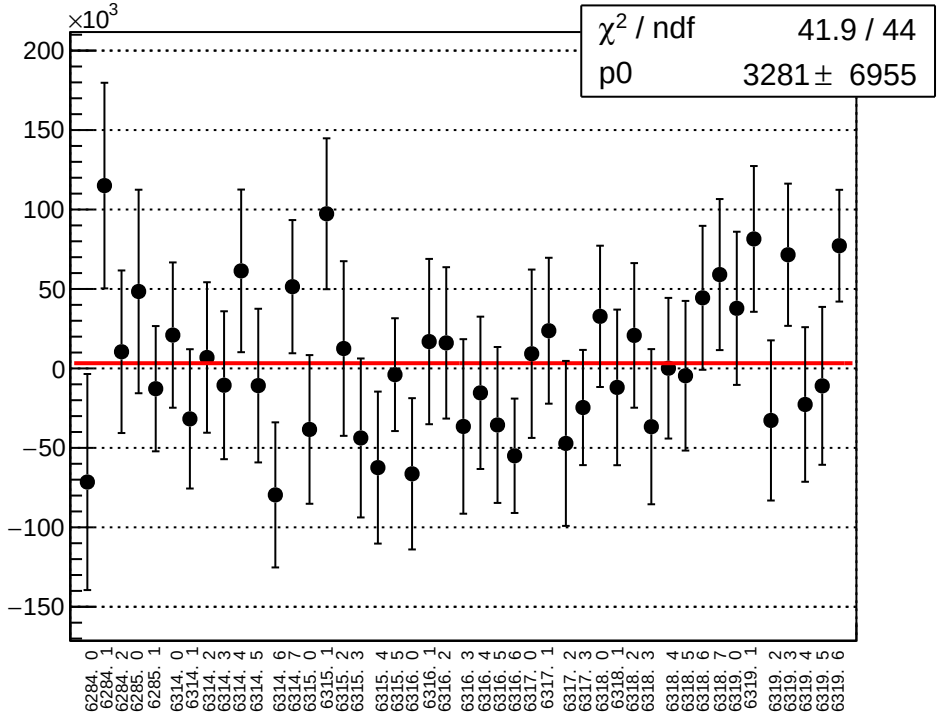
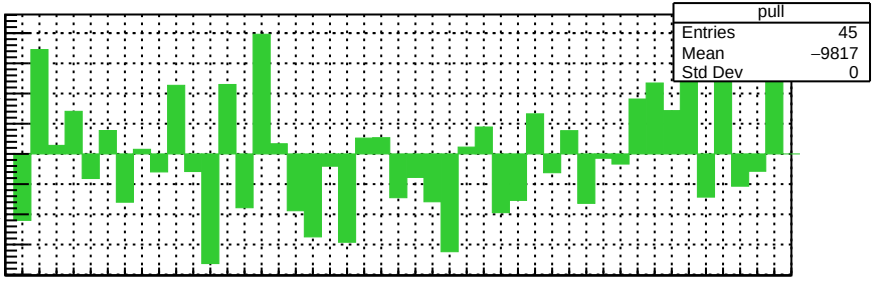
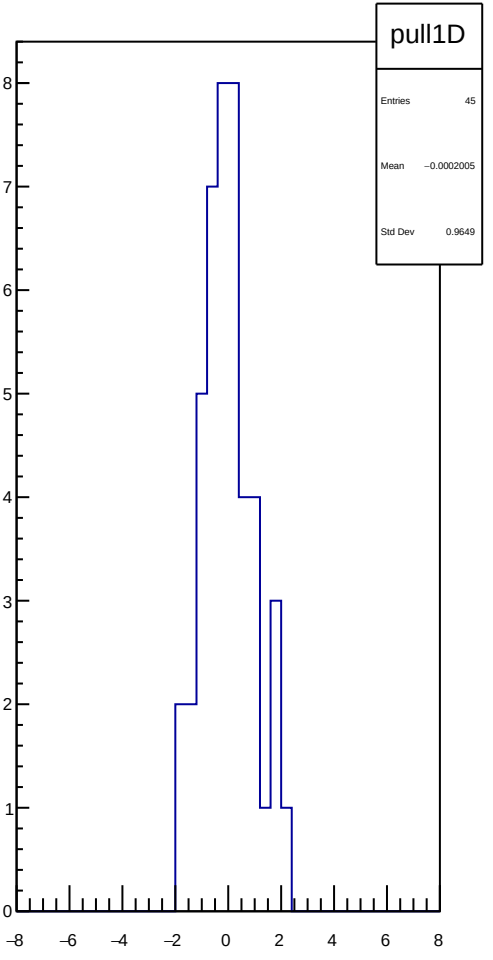
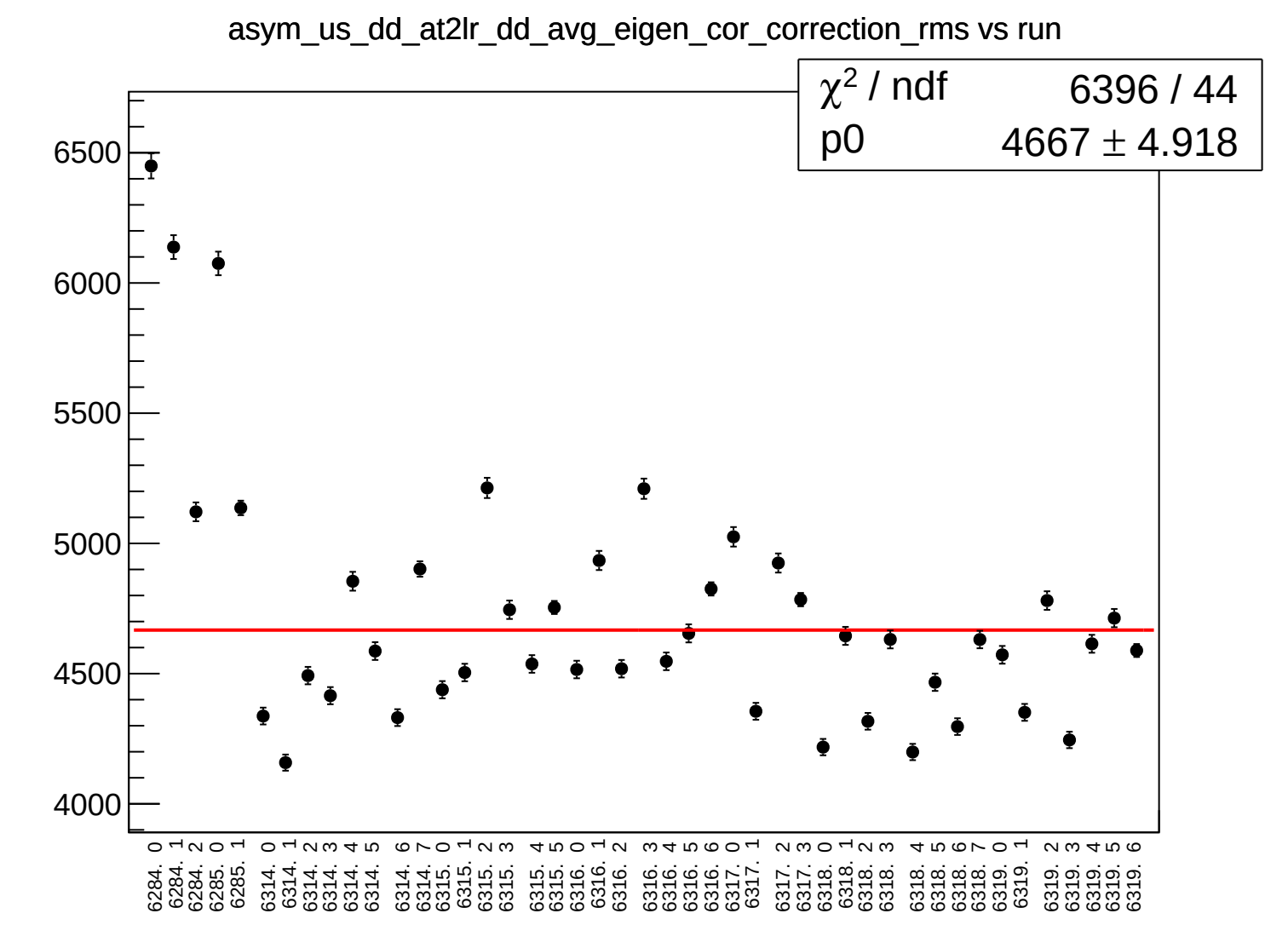
6319. 4
6319. 5
6319. 6

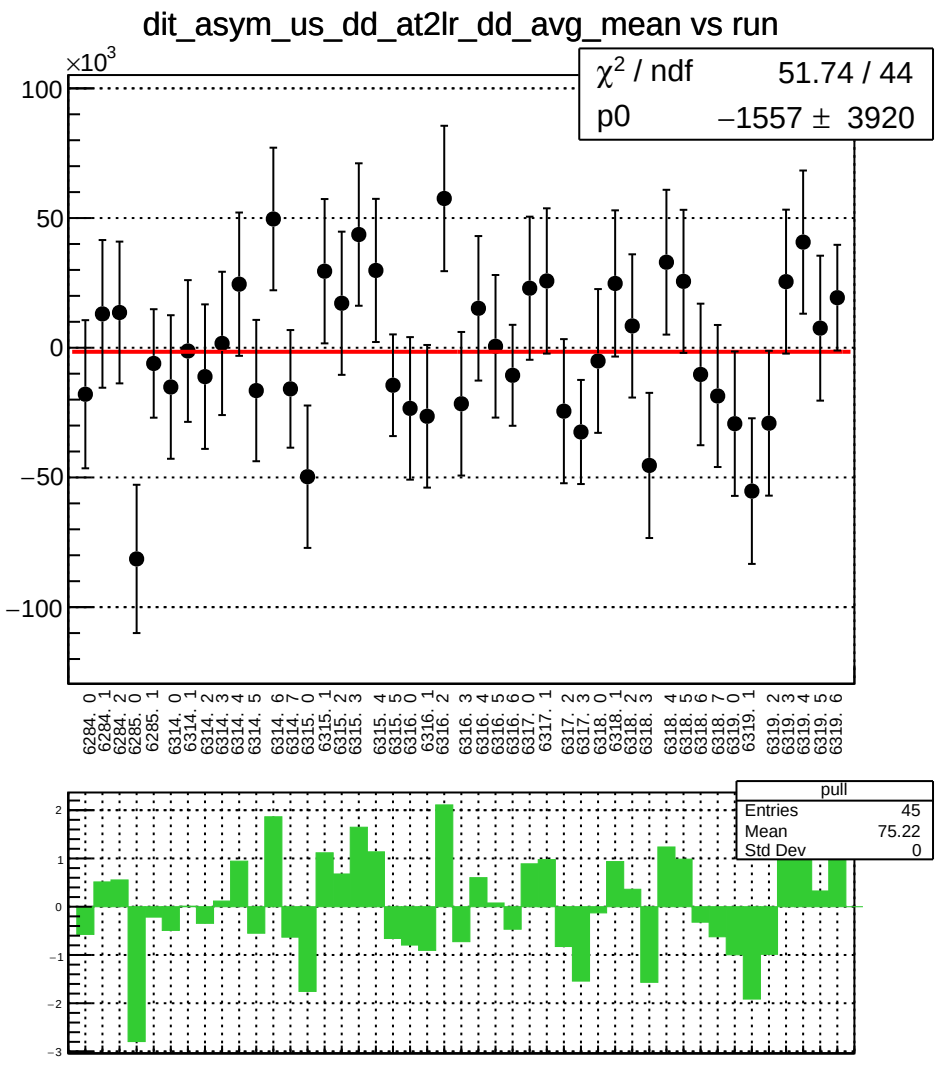
asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run

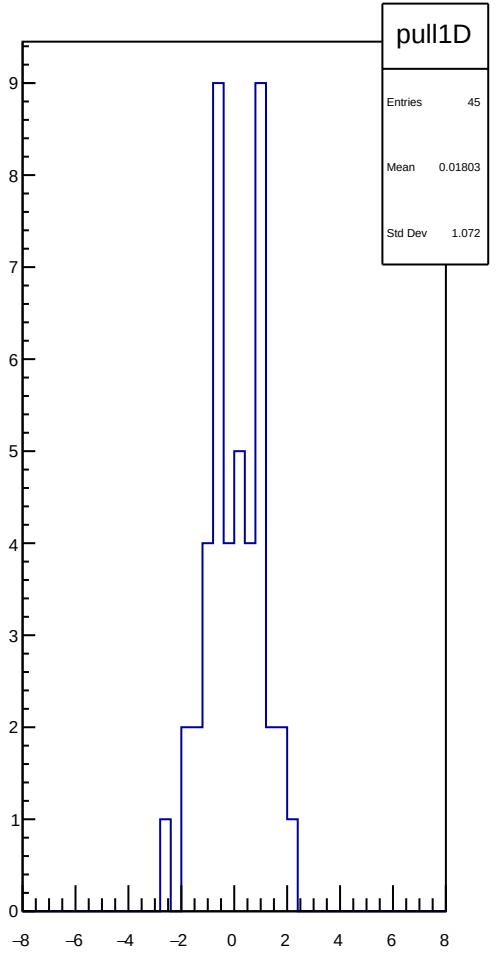


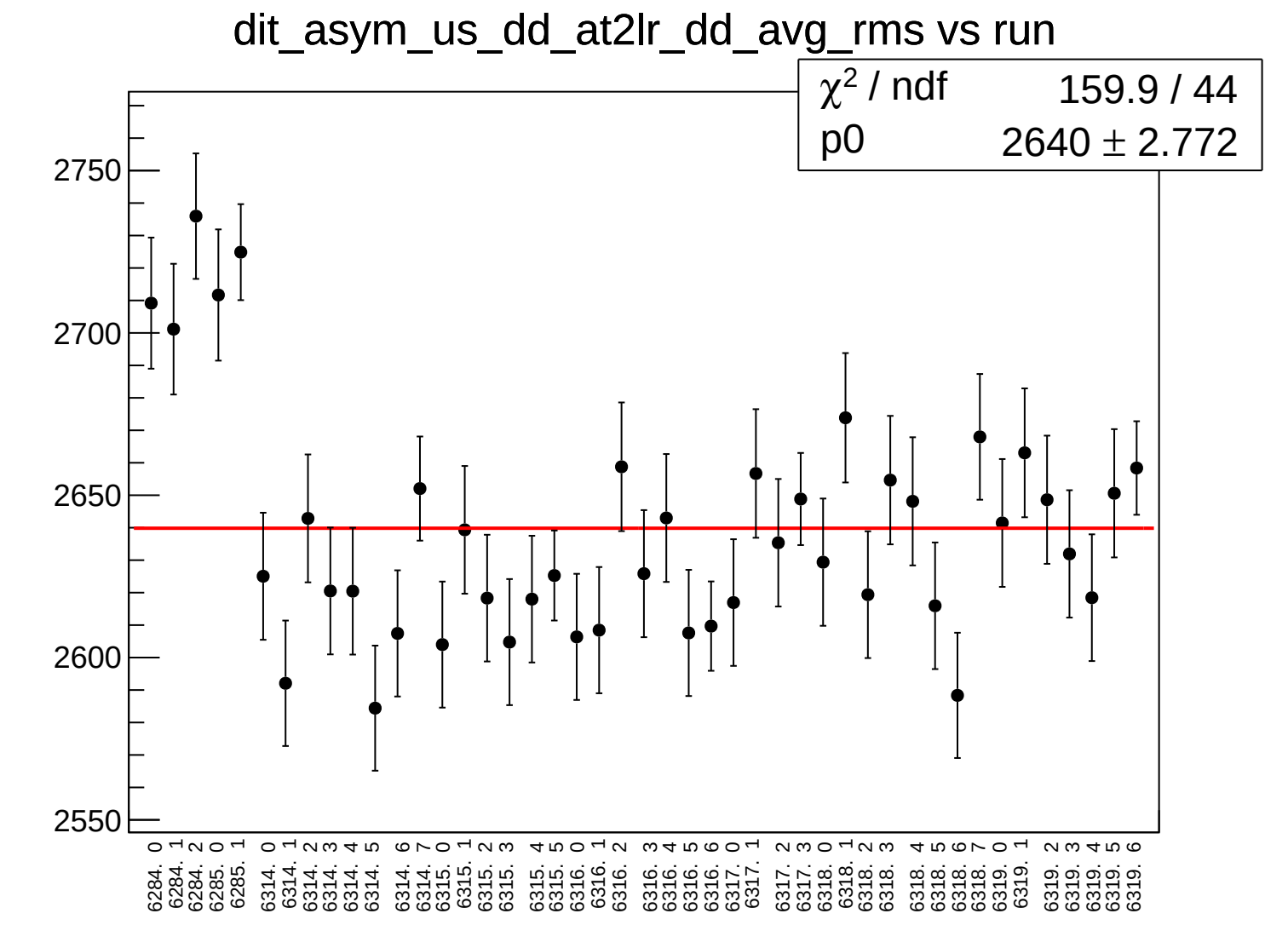


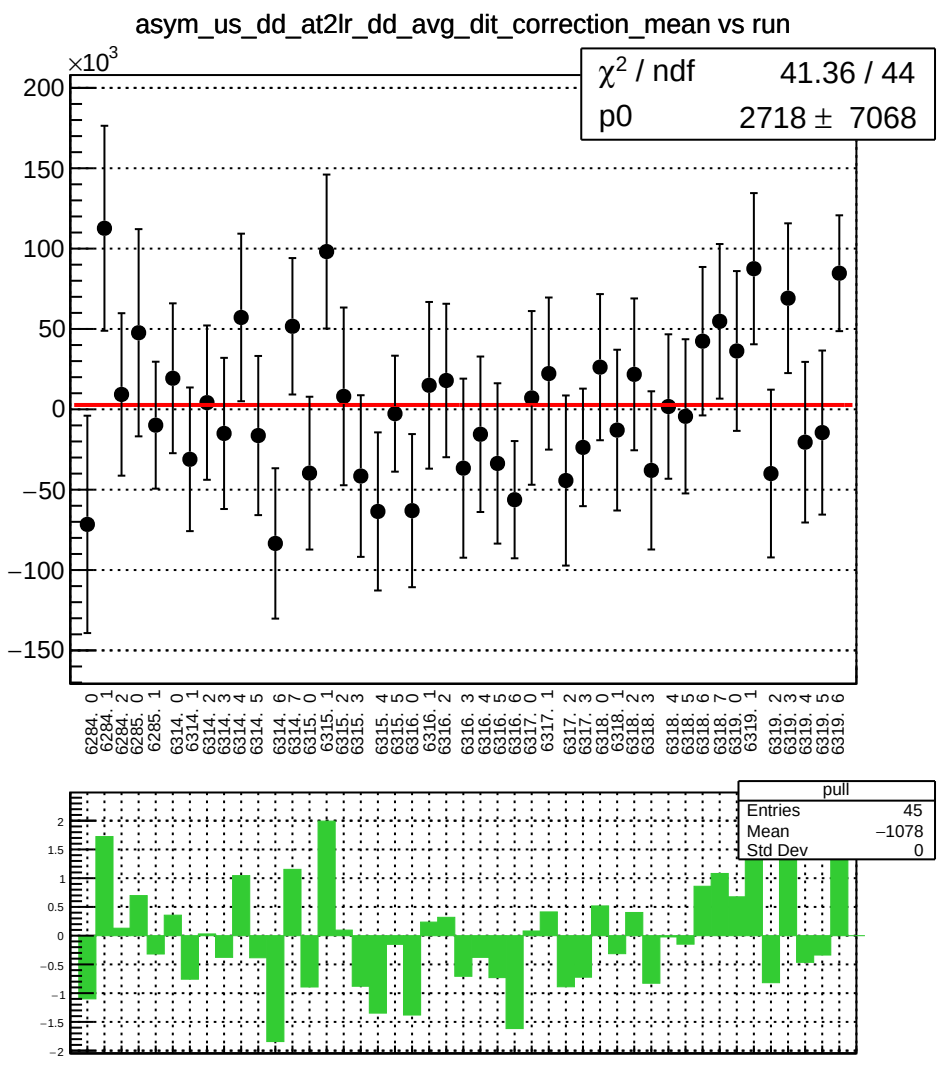


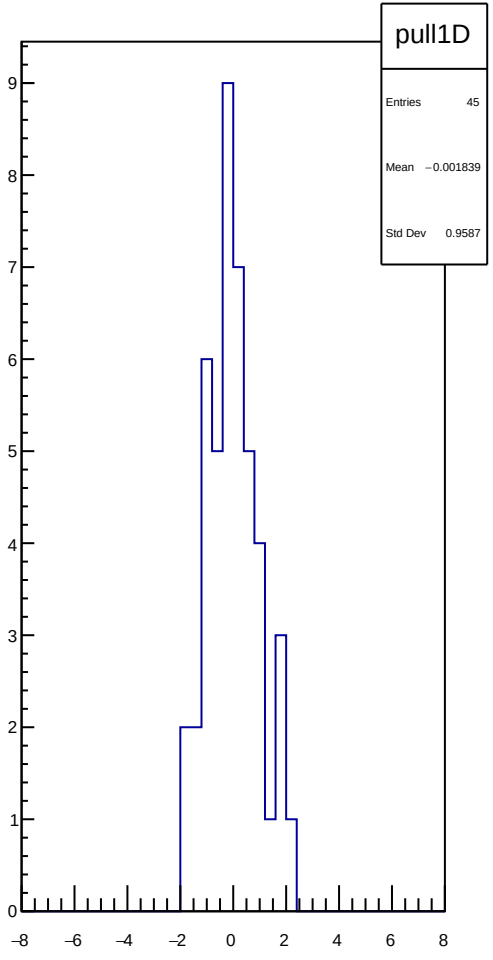

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6396 / 44
p0 4667 ± 4.918
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

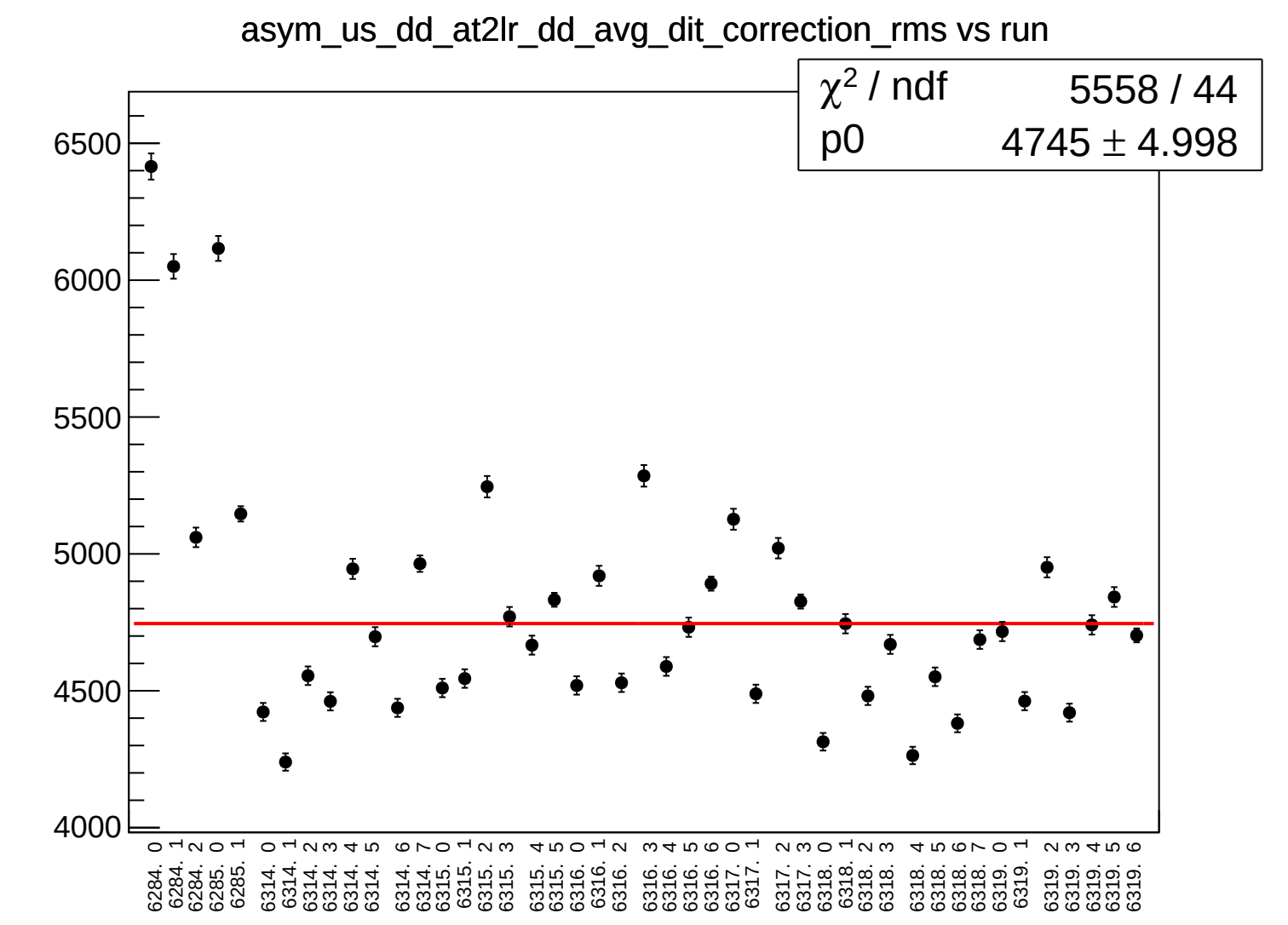

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 51.74 / 44
p0 −1557 ± 3920
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.22
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01803
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 159.9 / 44
p0 2640 ± 2.772
2750
2700
2650
2600
2550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.36 / 44
p0 2718 ± 7068
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1078
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001839
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5558 / 44
p0 4745 ± 4.998
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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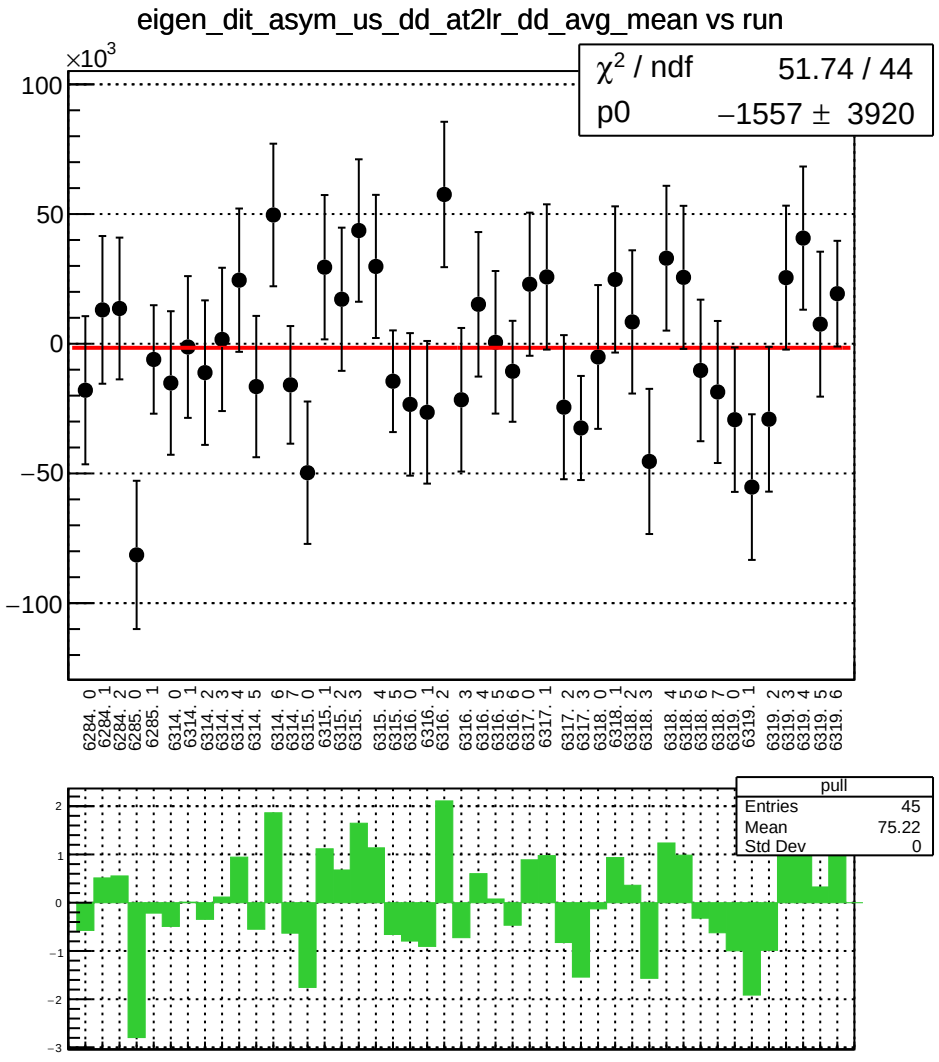
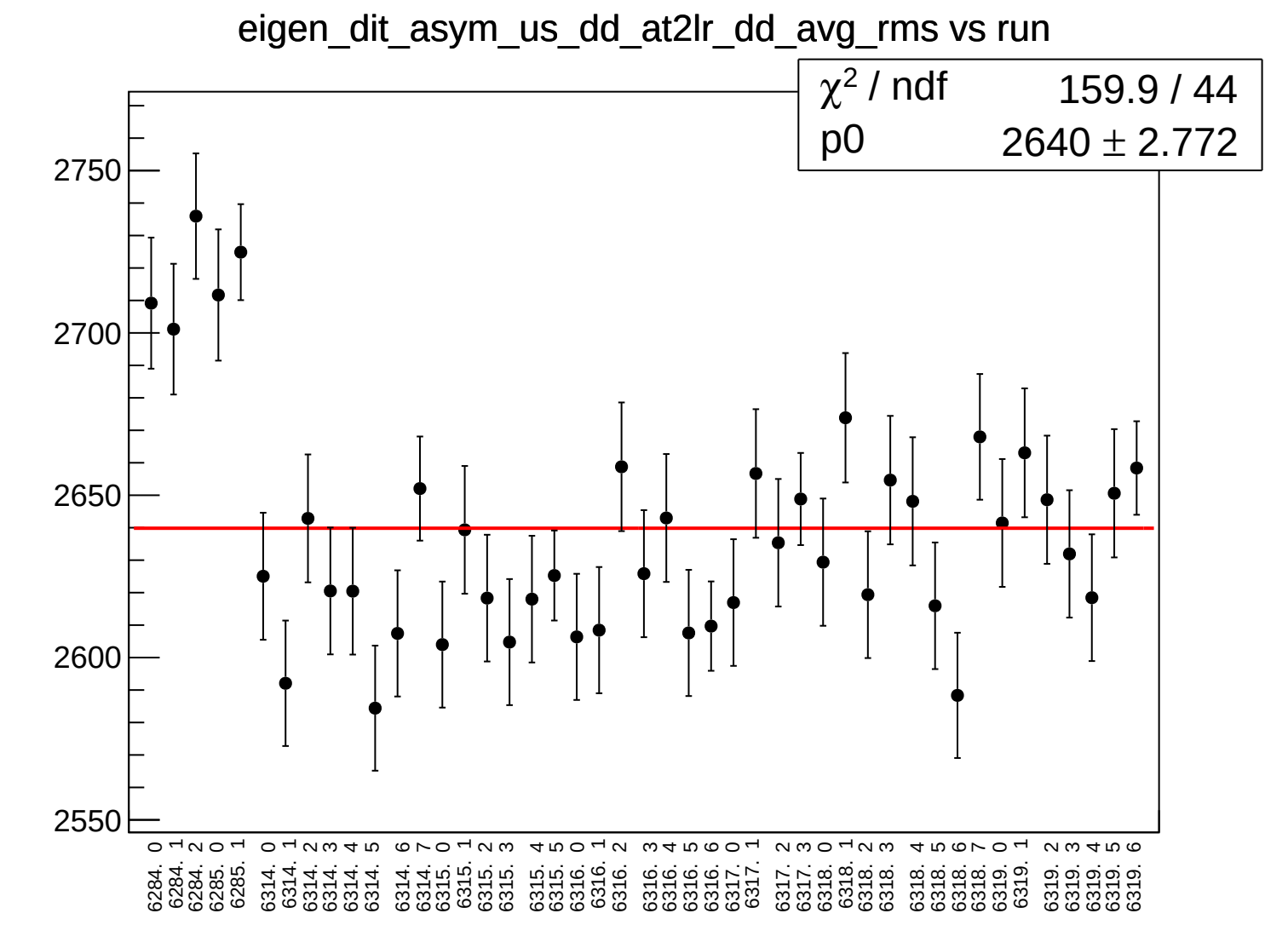
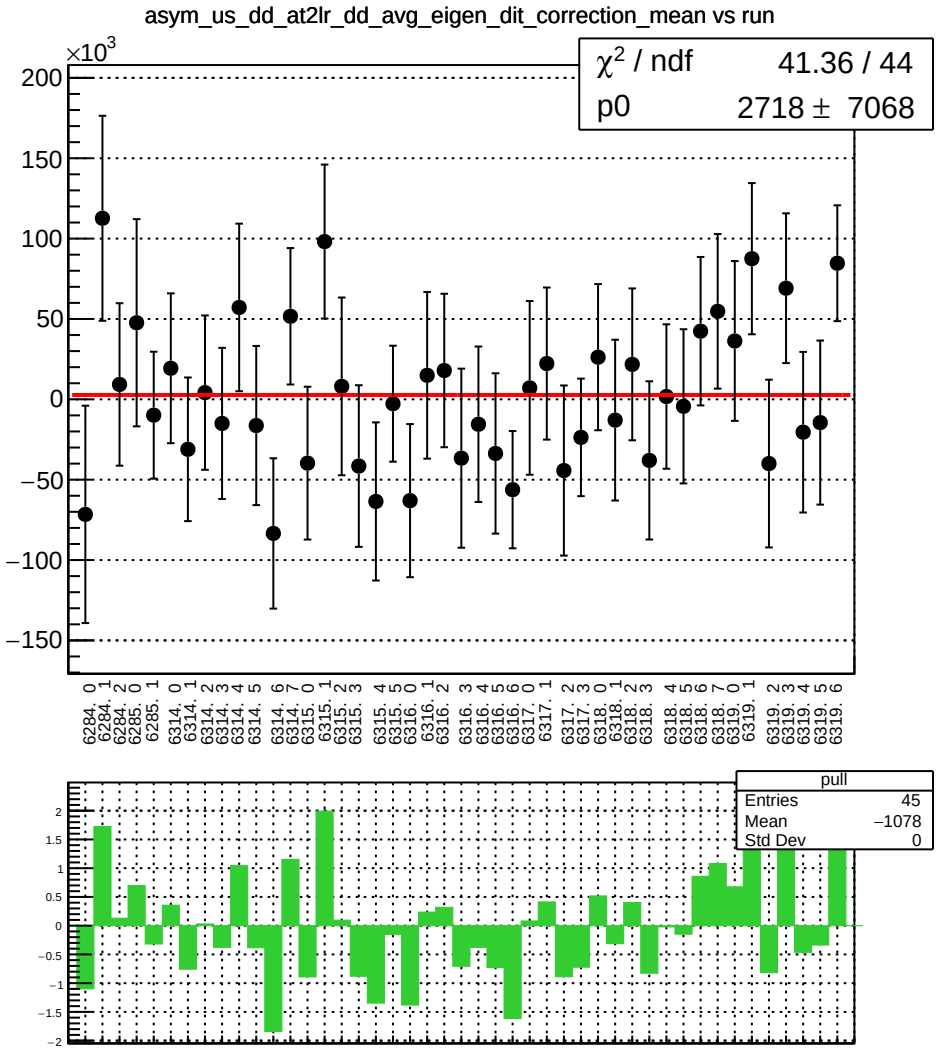
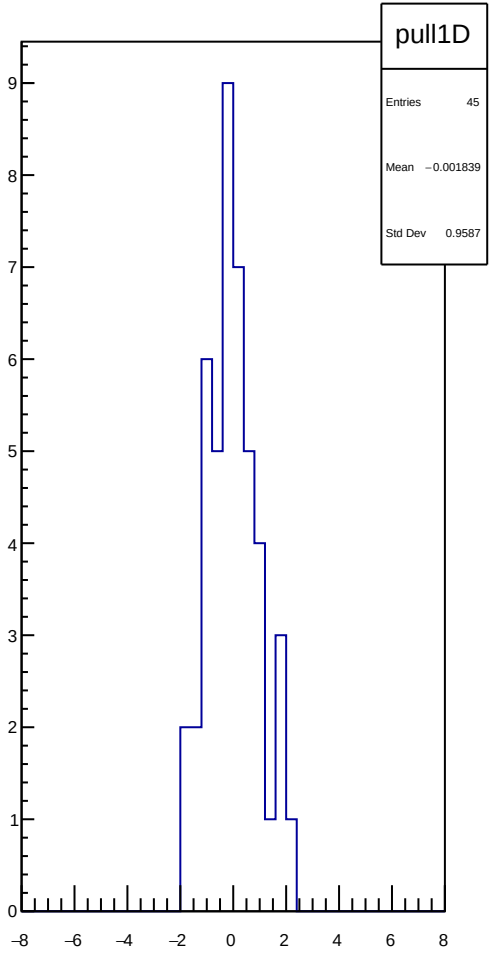
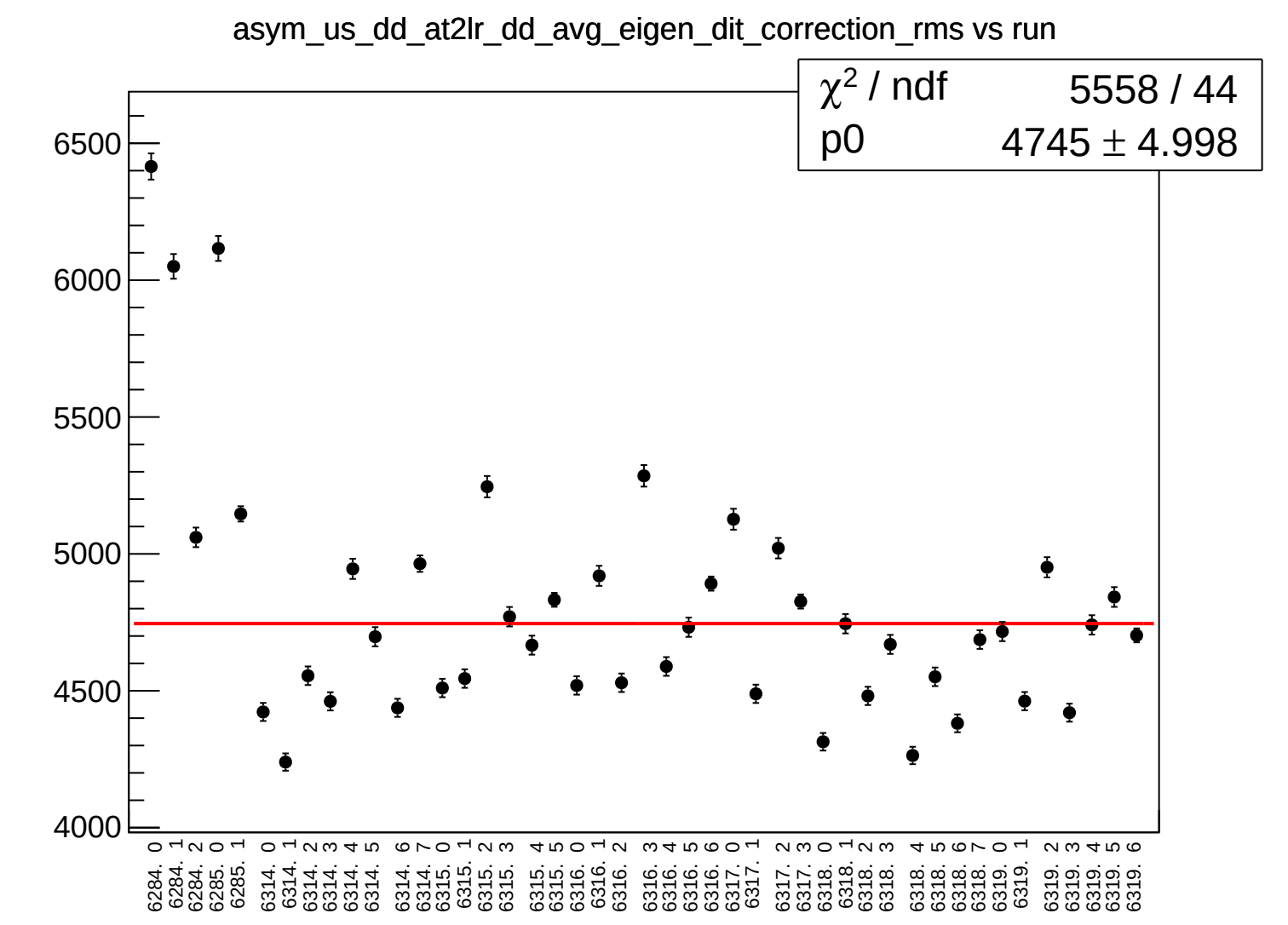
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 51.74 / 44
p0 −1557 ± 3920
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.22
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01803
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 159.9 / 44
p0 2640 ± 2.772
2750
2700
2650
2600
2550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.36 / 44
p0 2718 ± 7068
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1078
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001839
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5558 / 44
p0 4745 ± 4.998
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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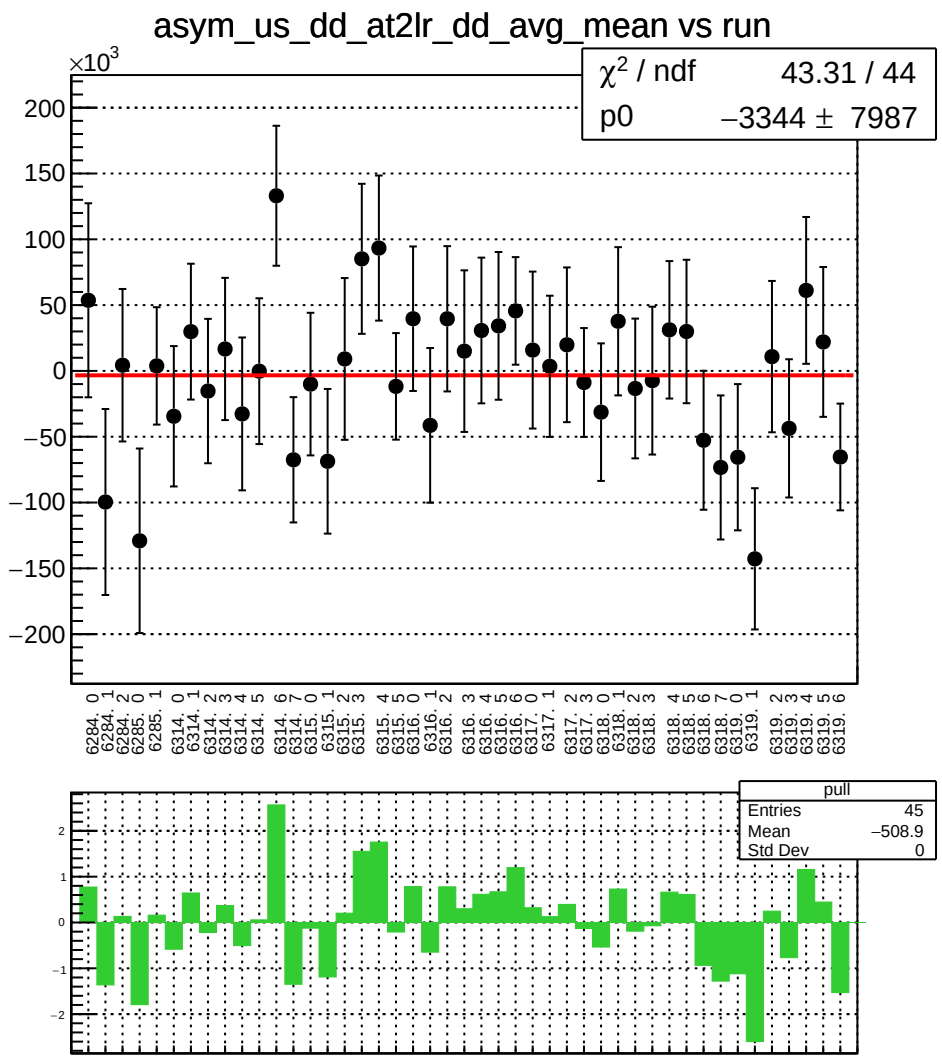
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 43.31 / 44
p0 −3344 ± 7987
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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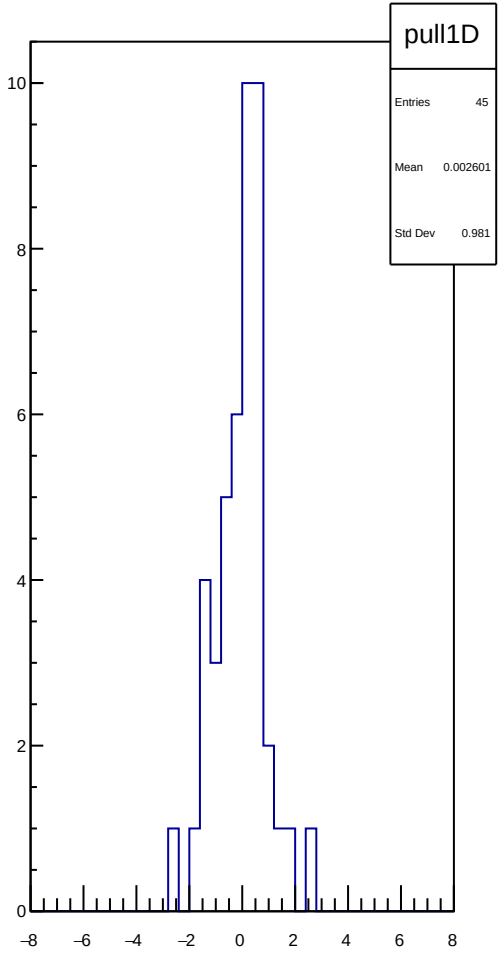
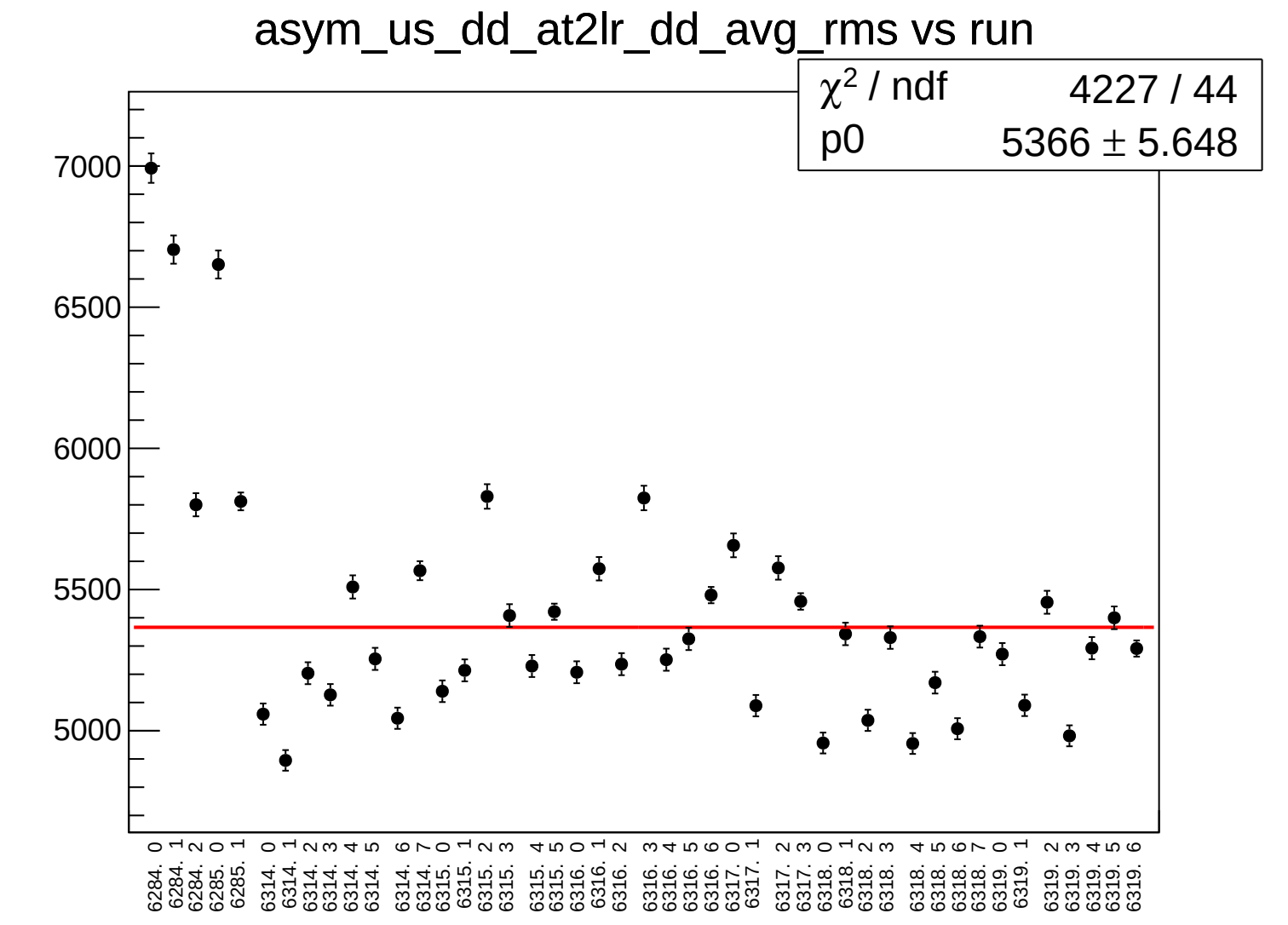
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −508.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.002601
Std Dev 0.981
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4227 / 44
p0 5366 ± 5.648
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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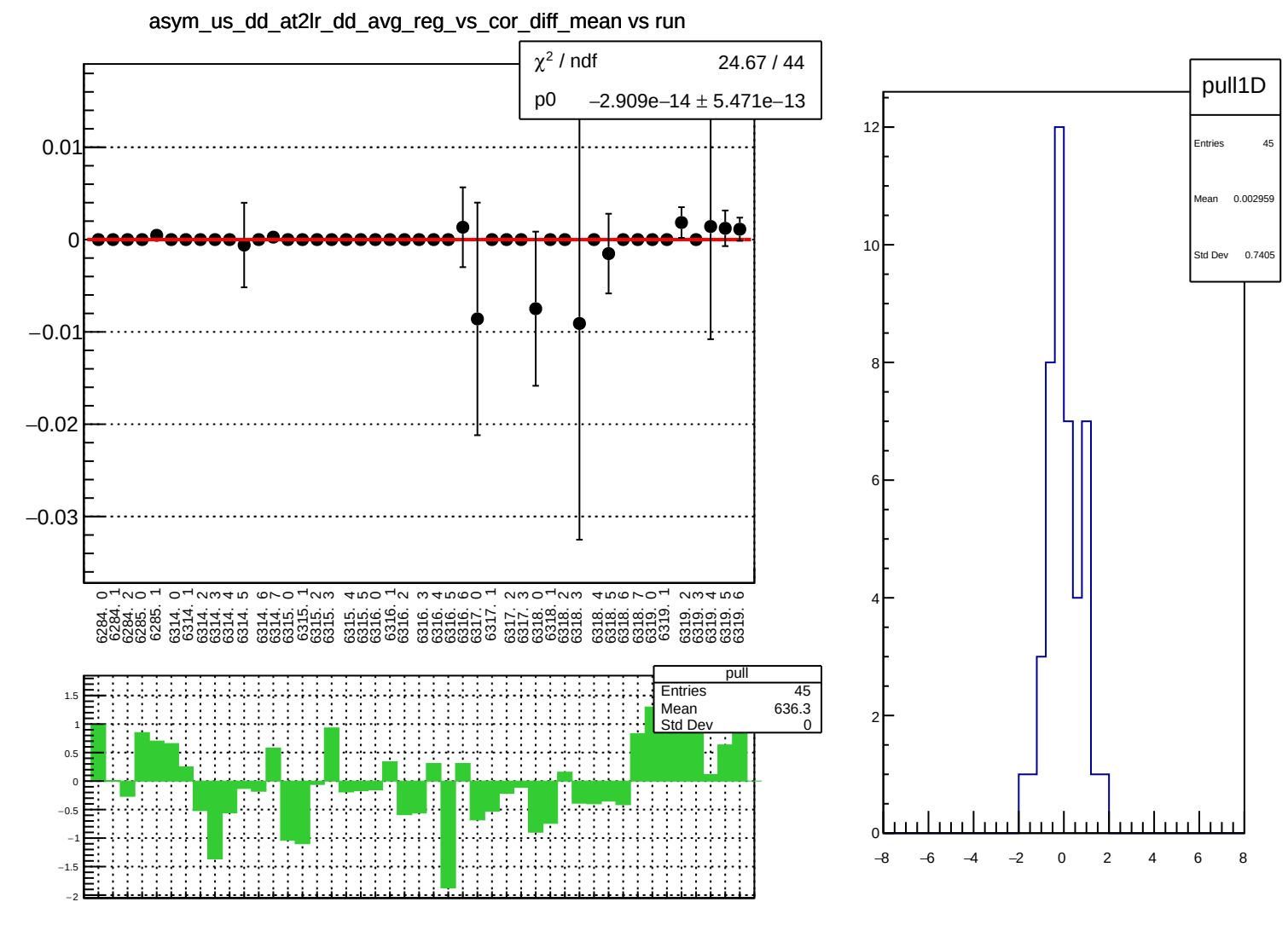
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.67 / 44
p0 −2.909e−14 ± 5.471e−13
0.01
0
−0.01
−0.02
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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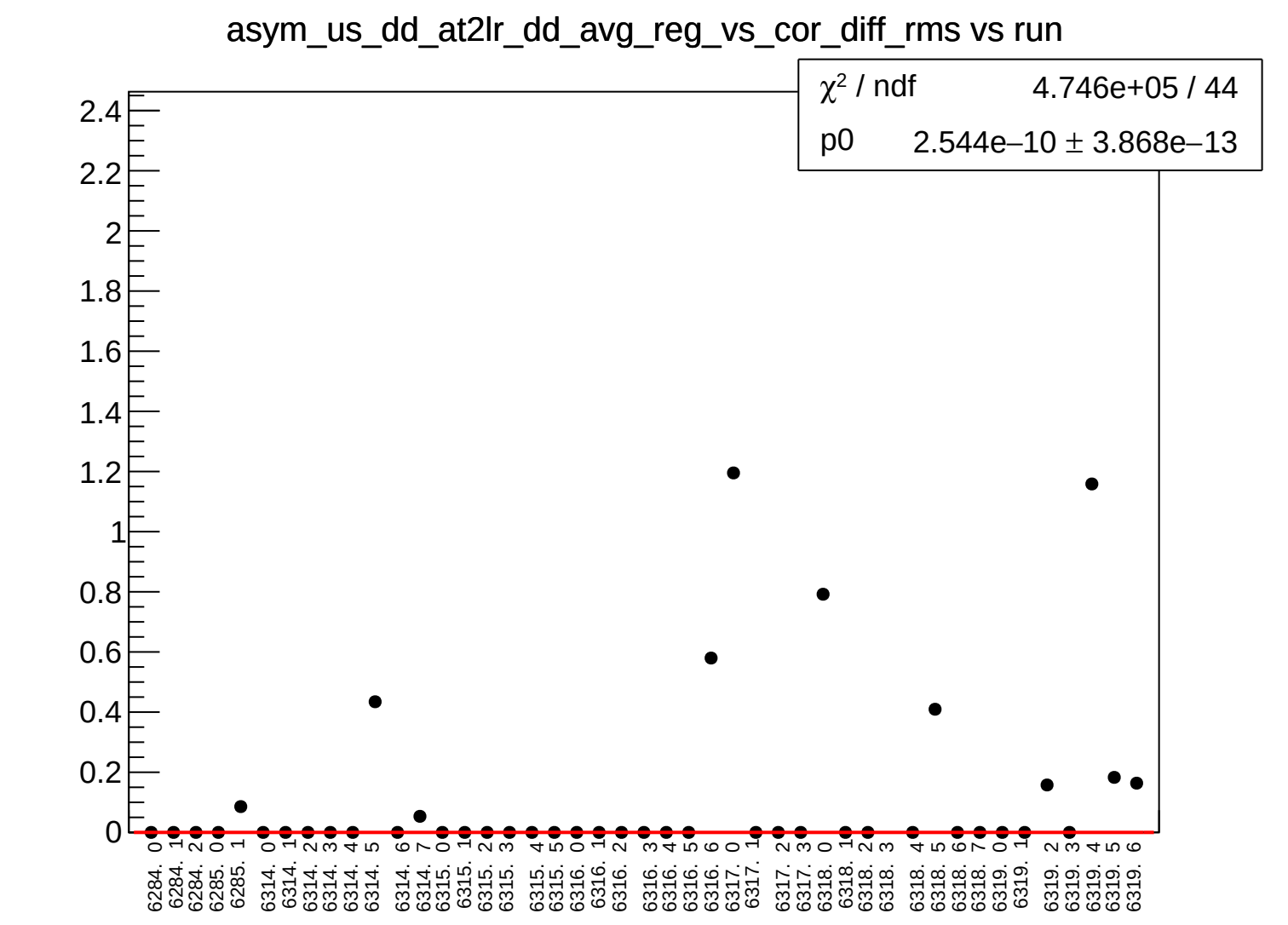
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 636.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002959
Std Dev 0.7405
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.746e+05 / 44
p0 2.544e−10 ± 3.868e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 5
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 3
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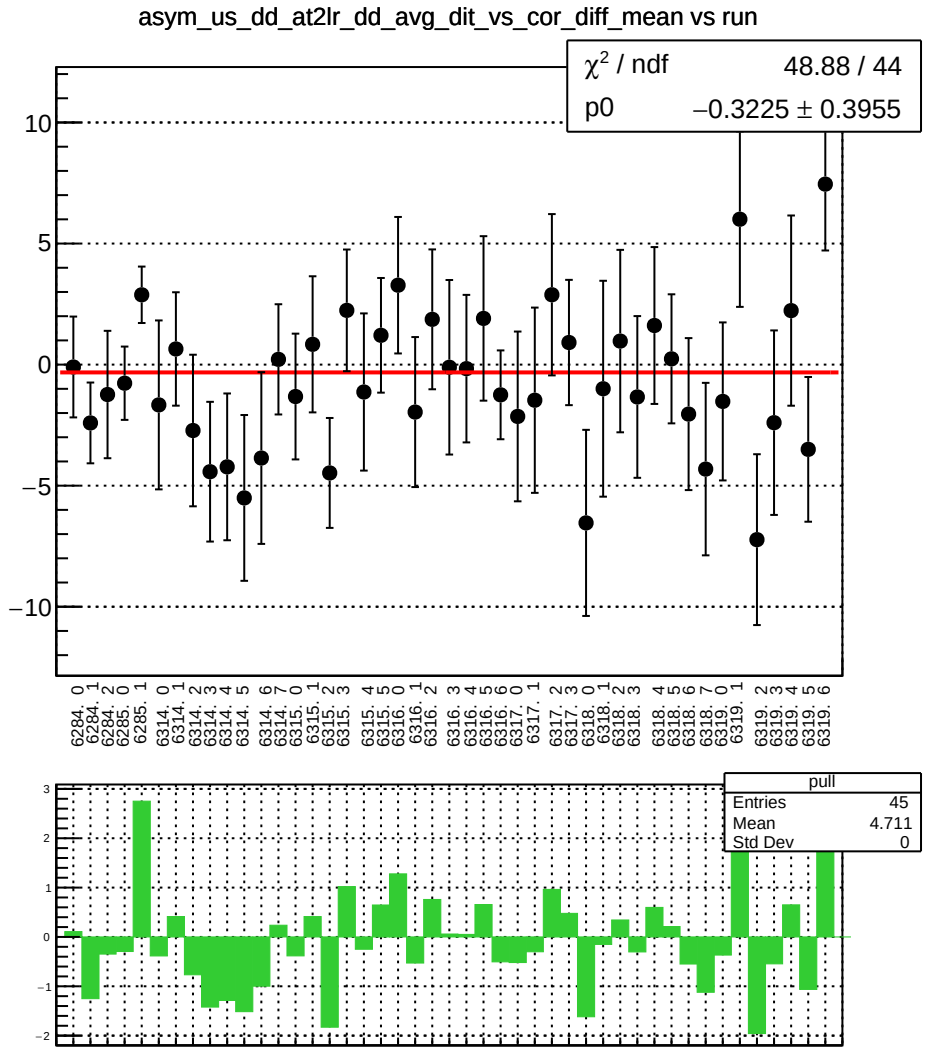
6319. 6


asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.88 / 44
p0 −0.3225 ± 0.3955
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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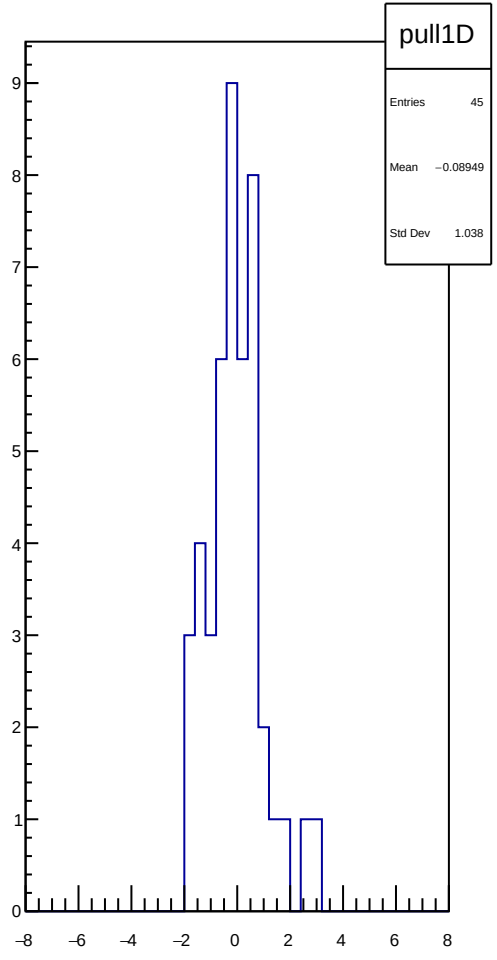
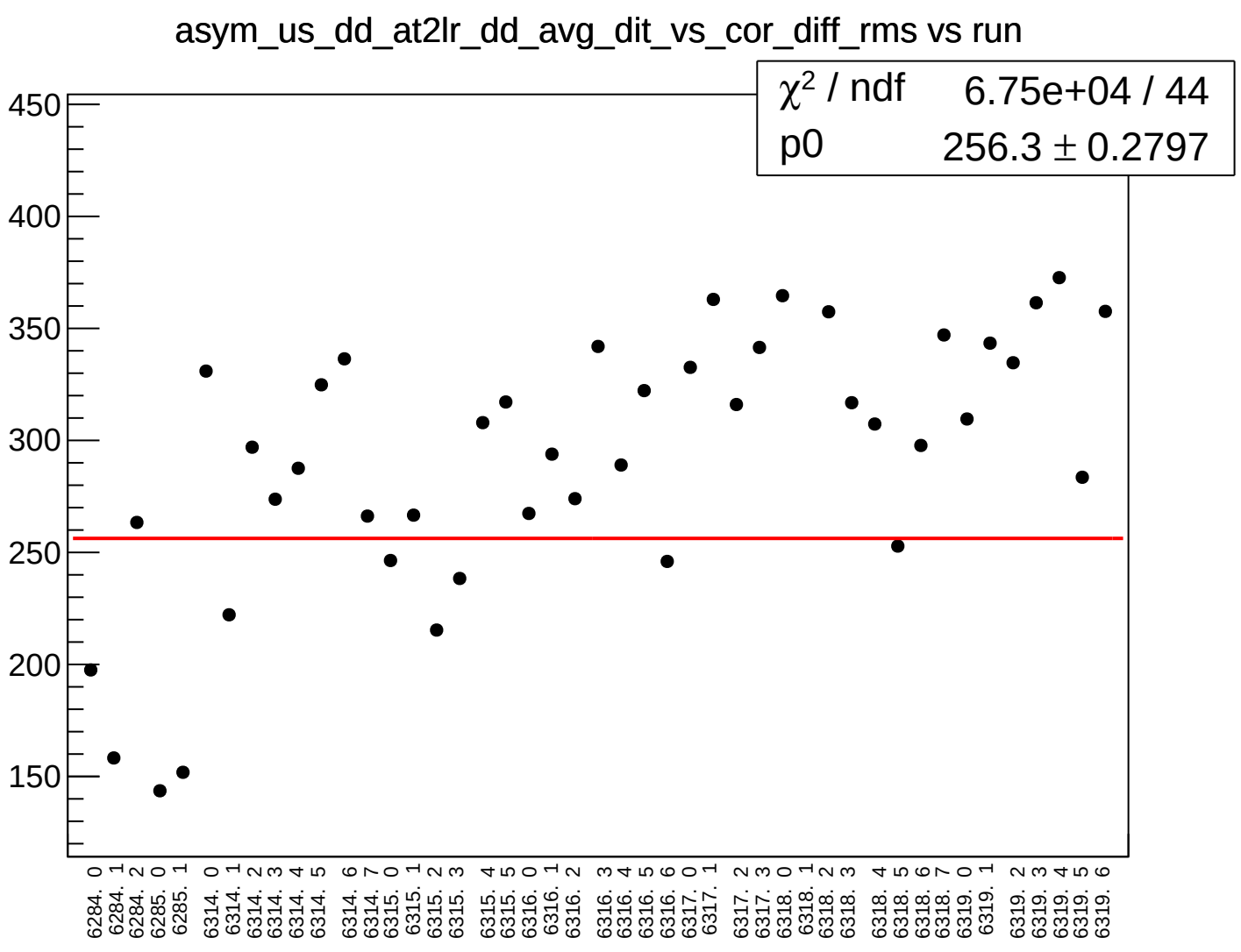
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.711
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.08949
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.75e+04 / 44
p0 256.3 ± 0.2797
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
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6316. 0
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6316. 2
6316. 3
6316. 4
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6316. 6
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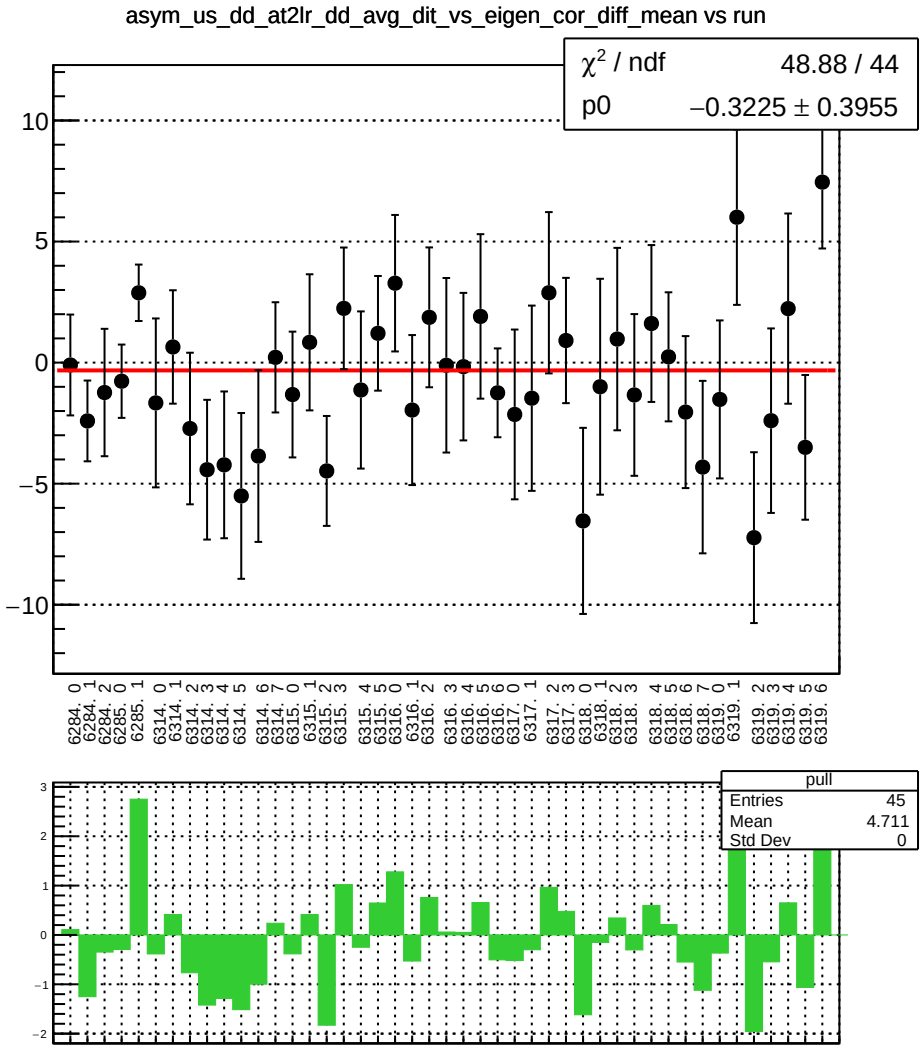
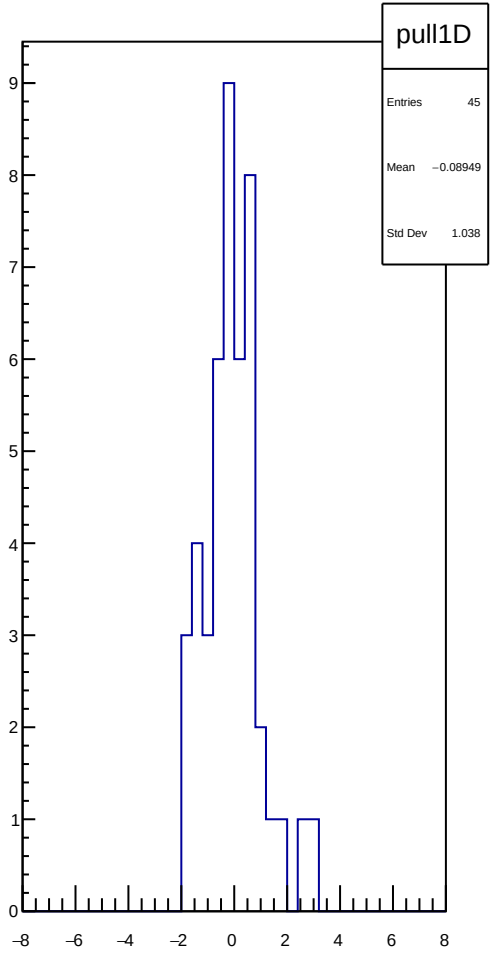
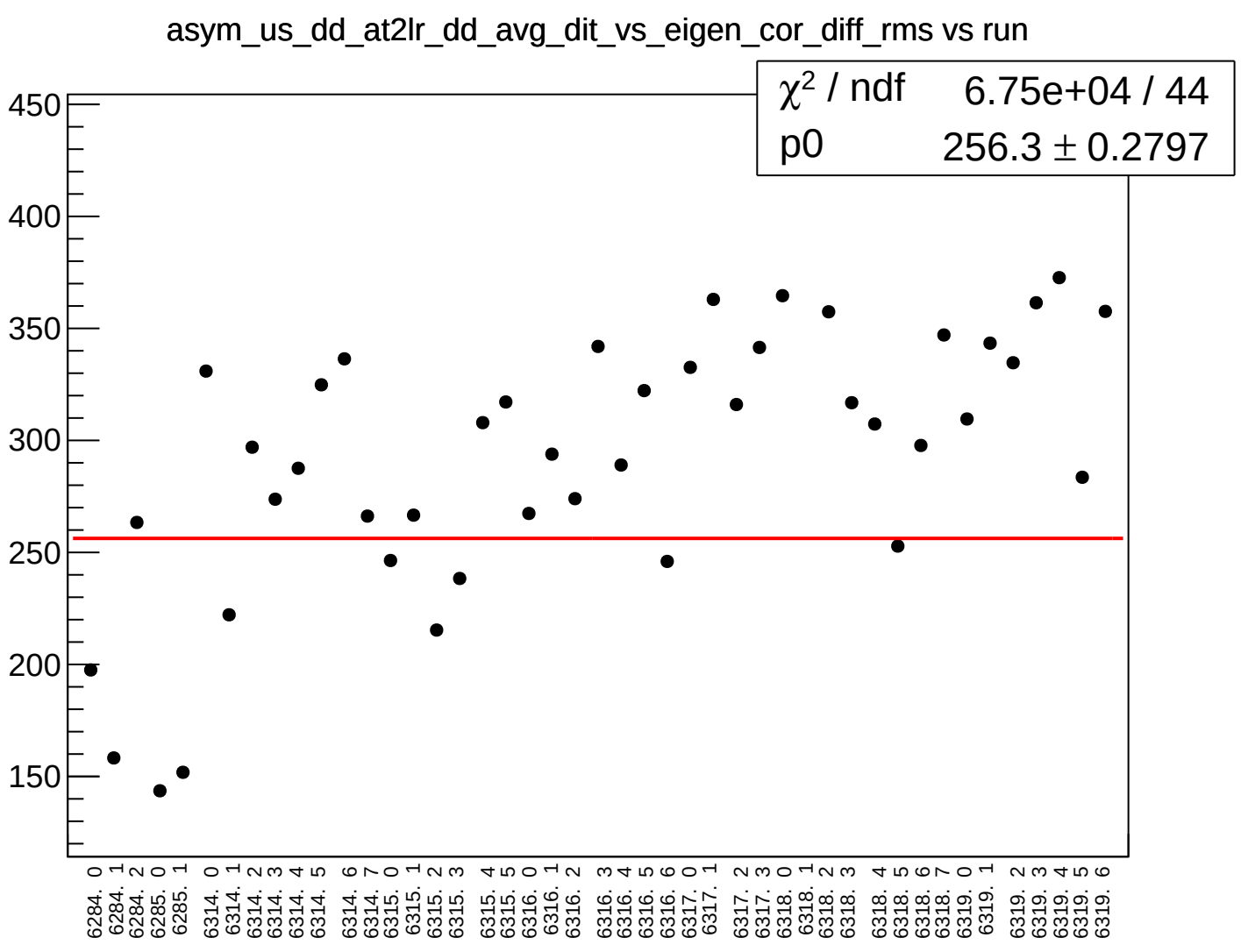
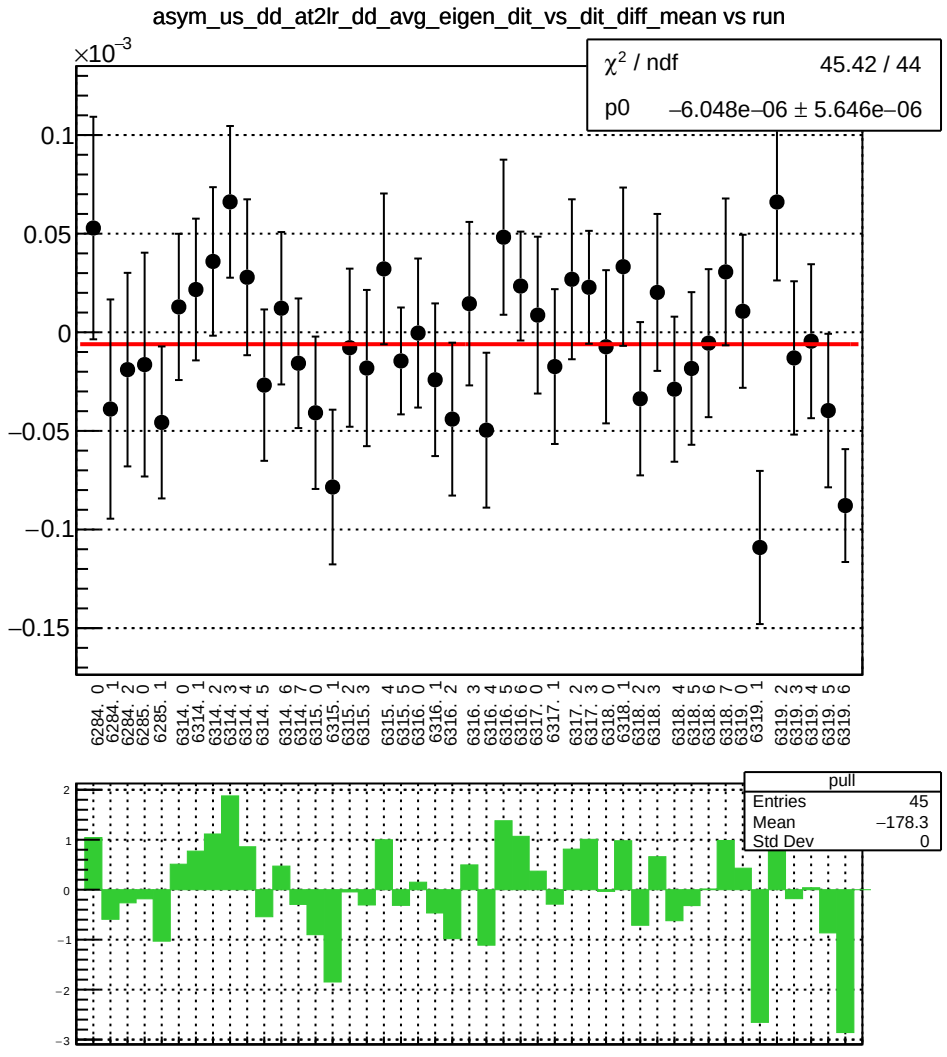
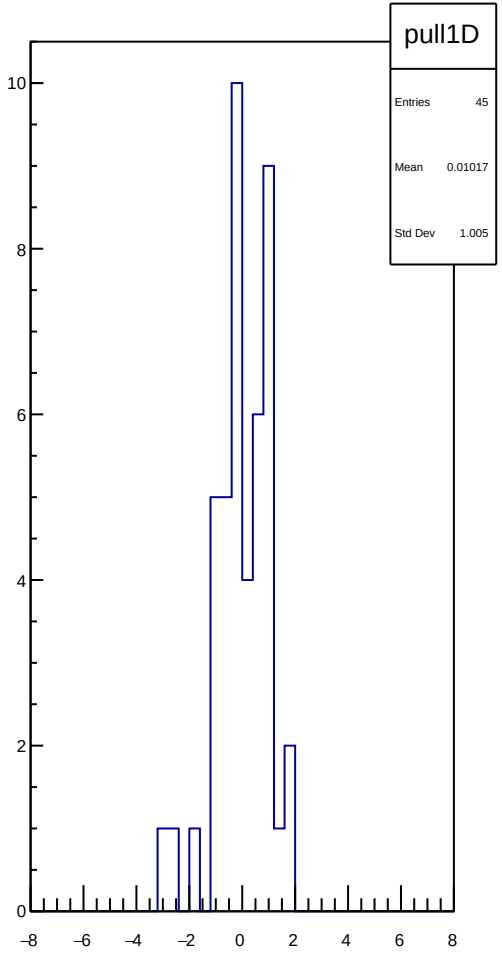
6319. 6

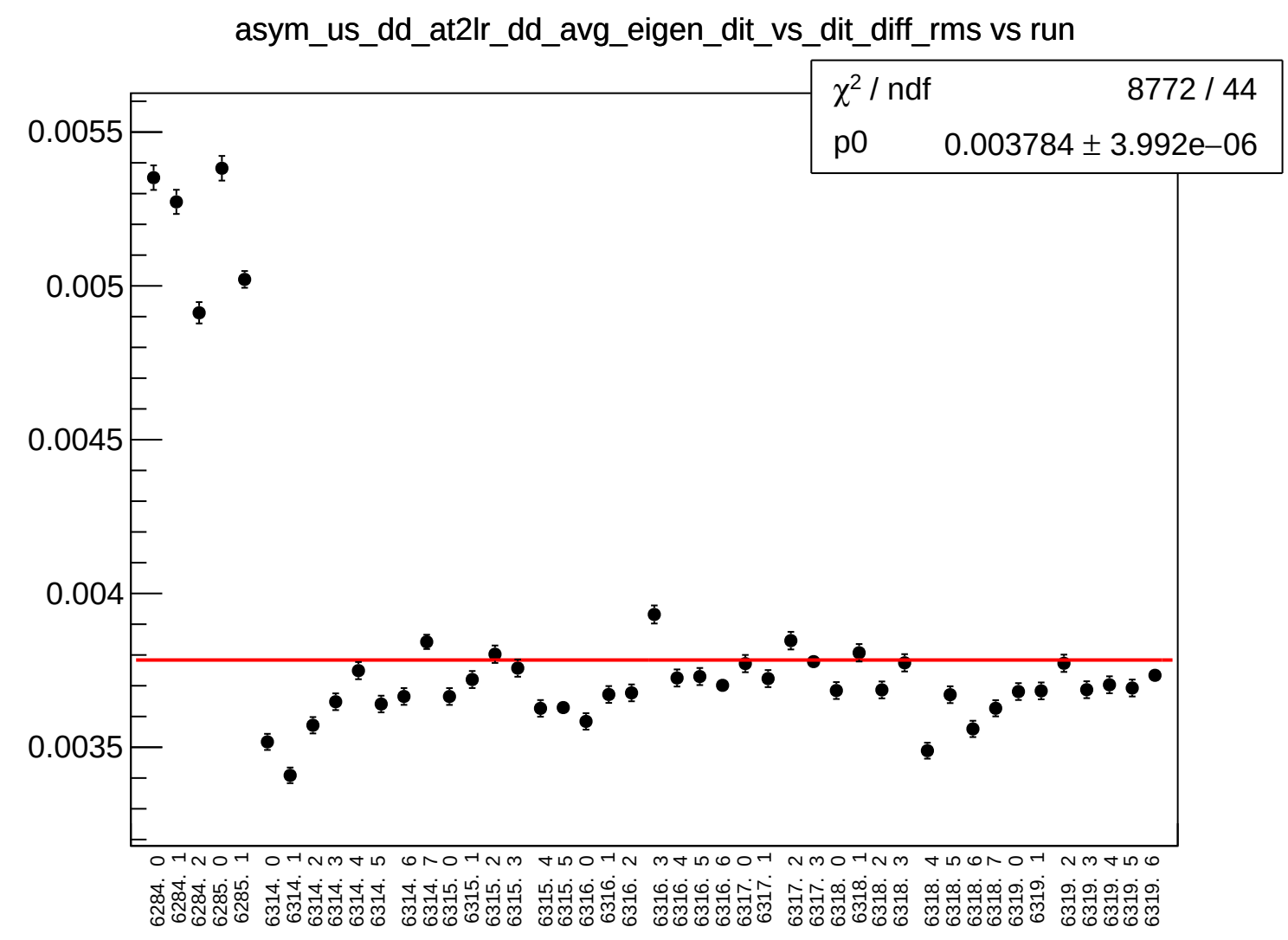

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.88 / 44
p0 −0.3225 ± 0.3955
pull
Entries 45
Mean 4.711
Std Dev 0

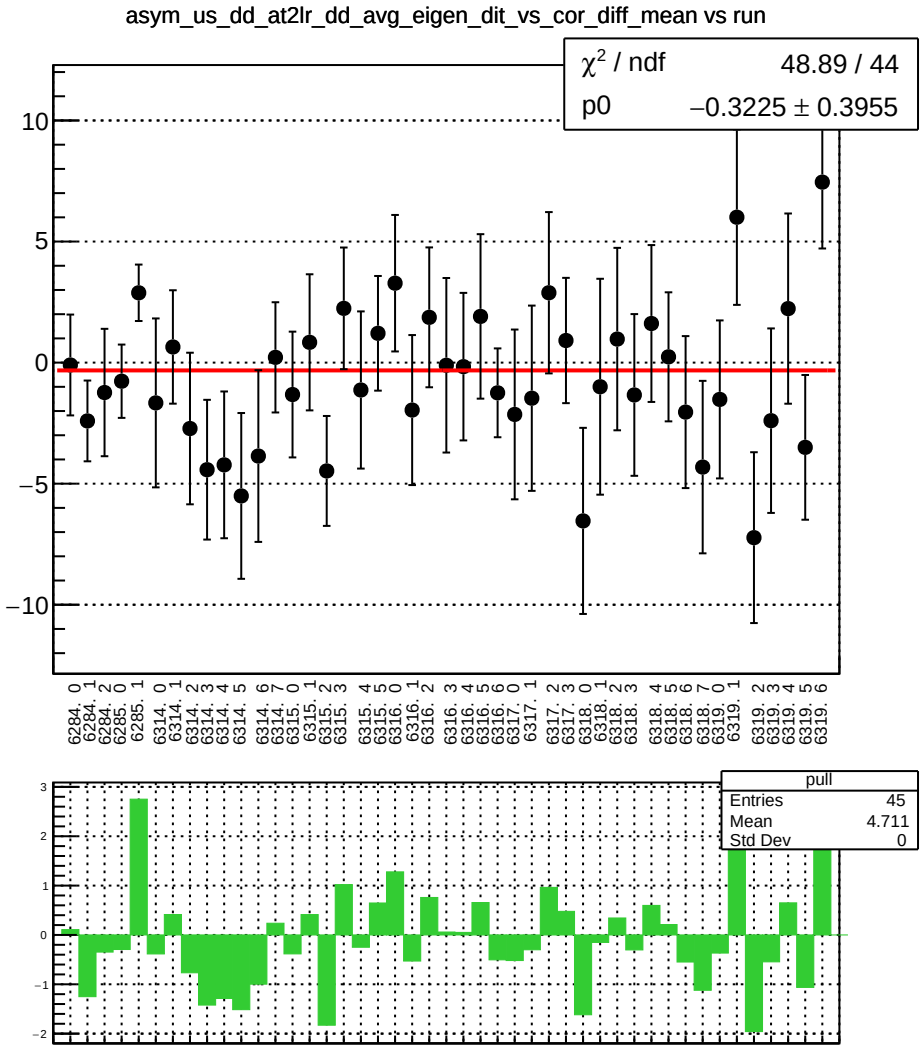

pull1D
Entries 45
Mean −0.08949
Std Dev 1.038

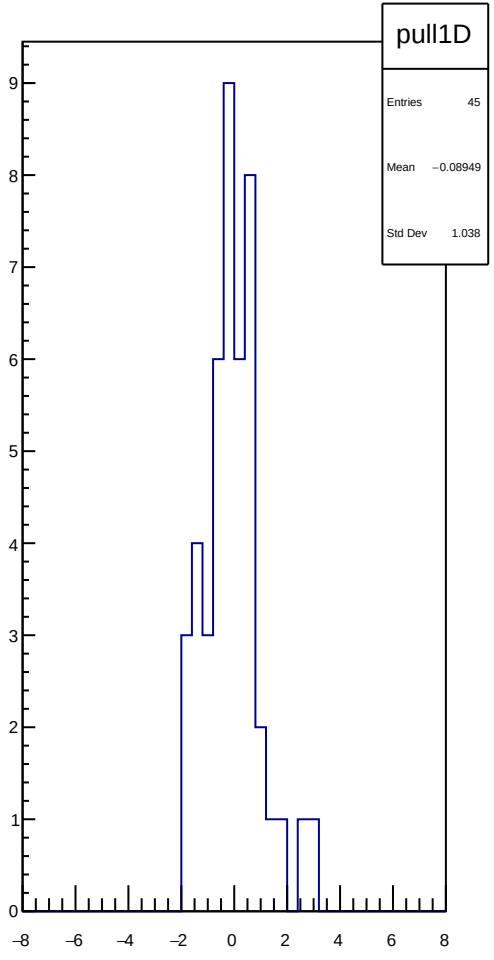

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.75e+04 / 44
p0 256.3 ± 0.2797
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

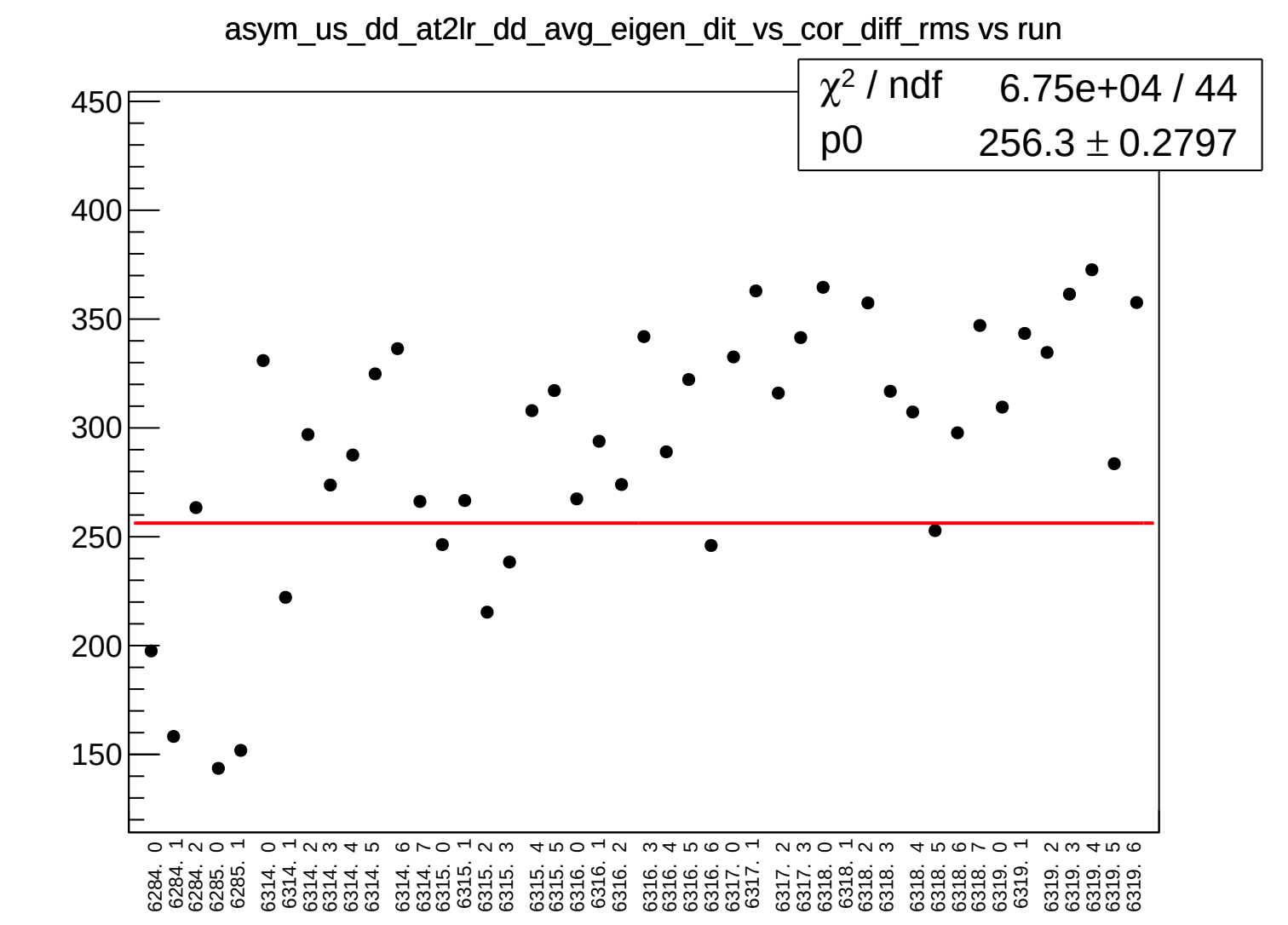

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.42 / 44
p0 −6.048e−06 ± 5.646e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −178.3
Std Dev 0
2
1
0
−1
−2
−3

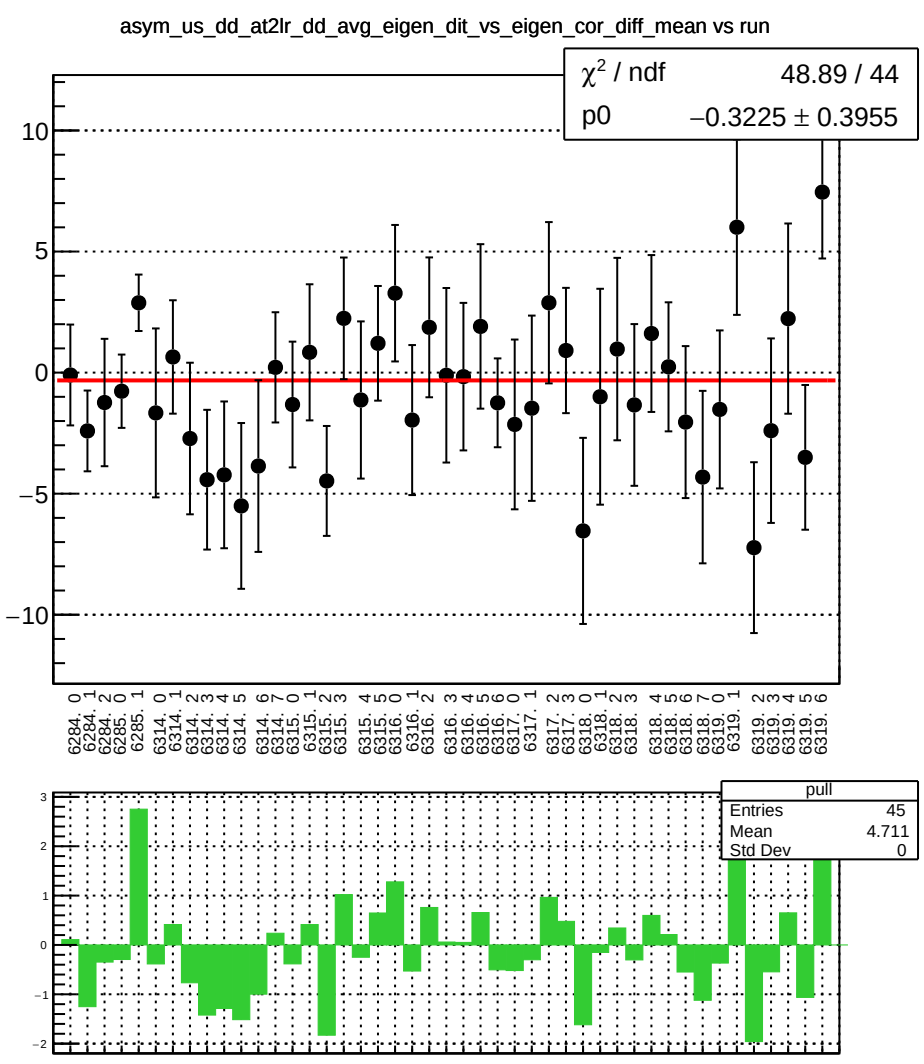

pull1D
Entries 45
Mean 0.01017
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

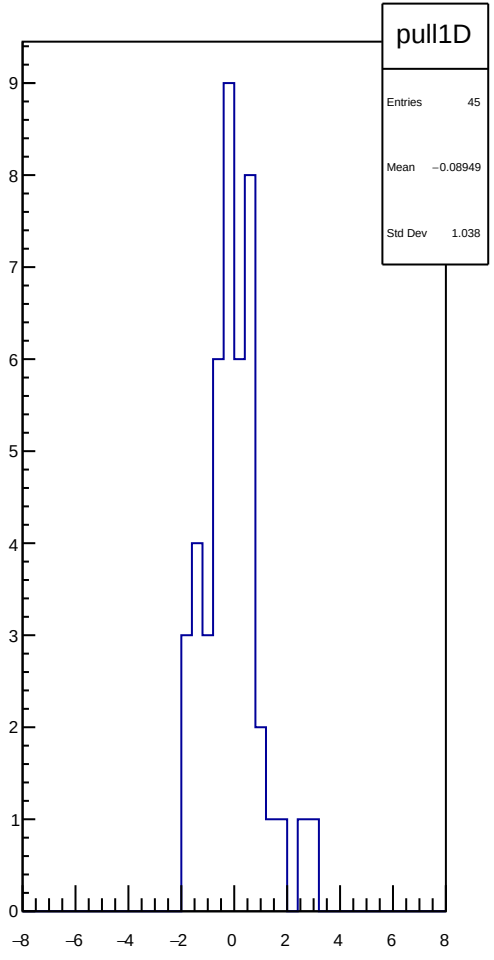

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8772 / 44
p0 0.003784 ± 3.992e−06
0.0055
0.005
0.0045
0.004
0.0035
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

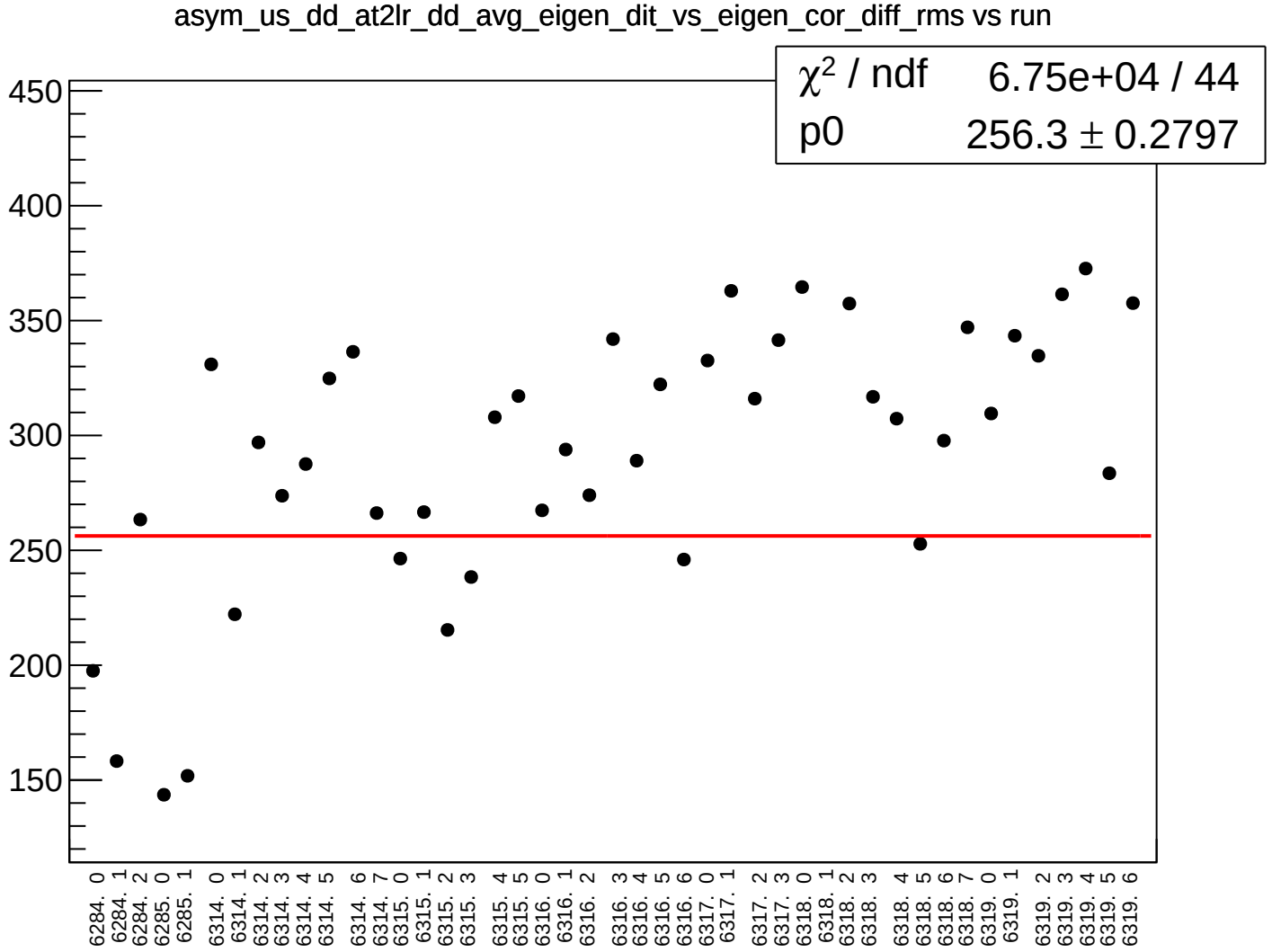

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.89 / 44
p0 −0.3225 ± 0.3955
pull
Entries 45
Mean 4.711
Std Dev 0

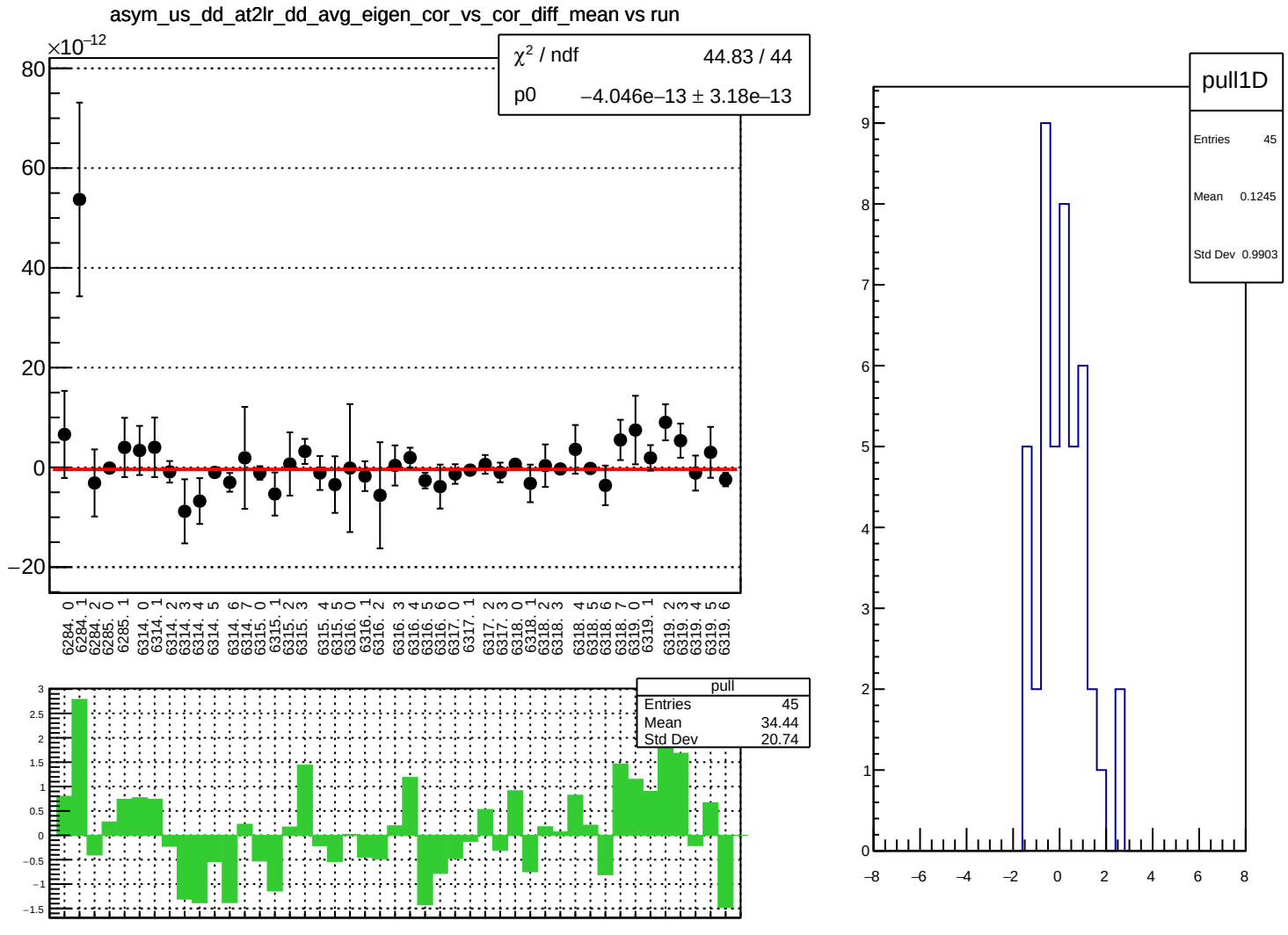

pull1D
Entries 45
Mean −0.08949
Std Dev 1.038

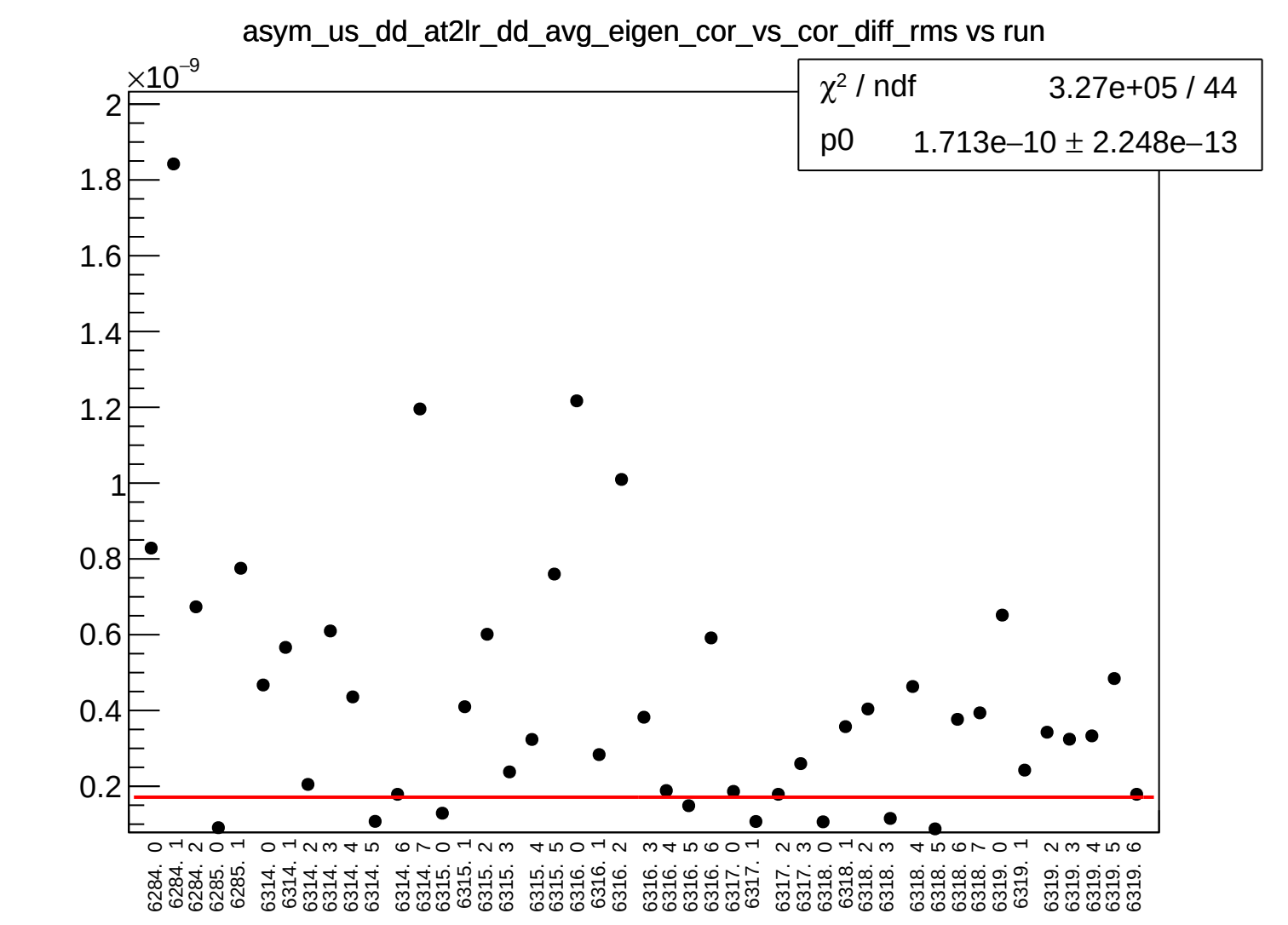

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.75e+04 / 44
p0 256.3 ± 0.2797
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

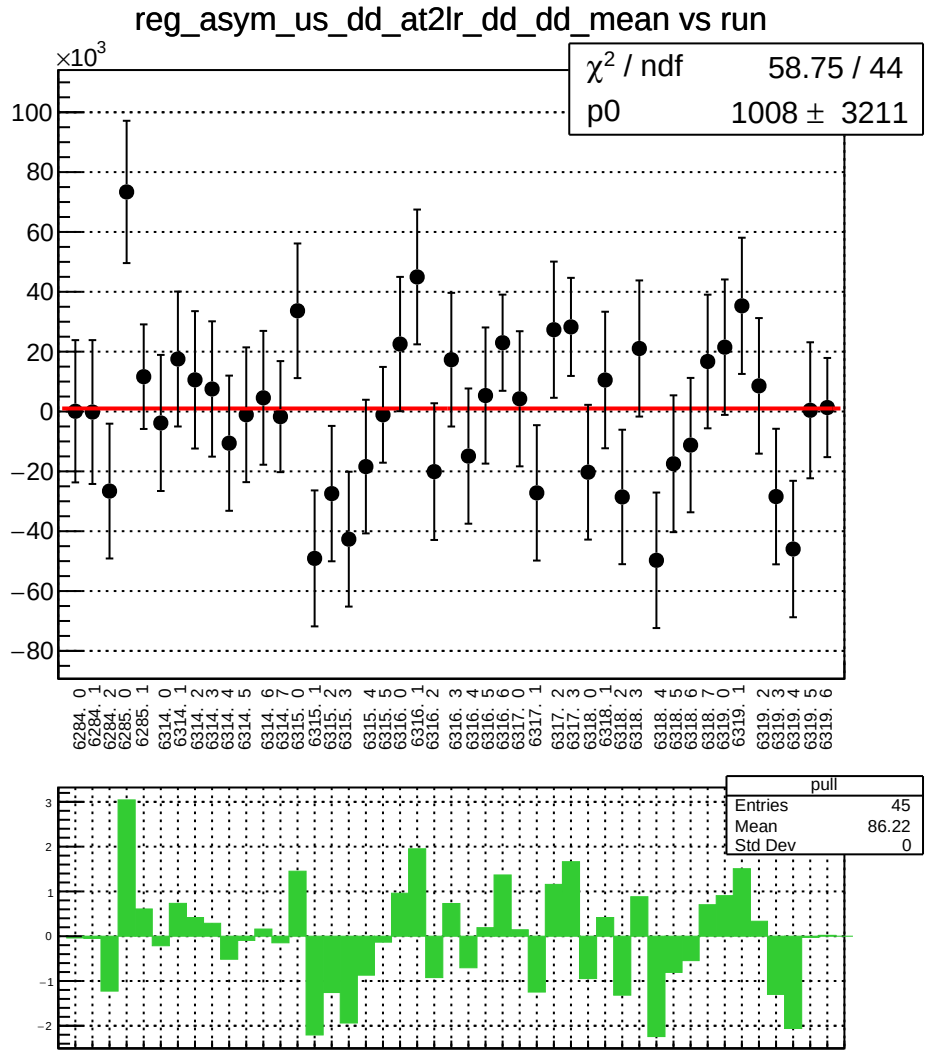

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.89 / 44
p0 −0.3225 ± 0.3955
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.711
Std Dev 0
3
2
1
0
−1
−2

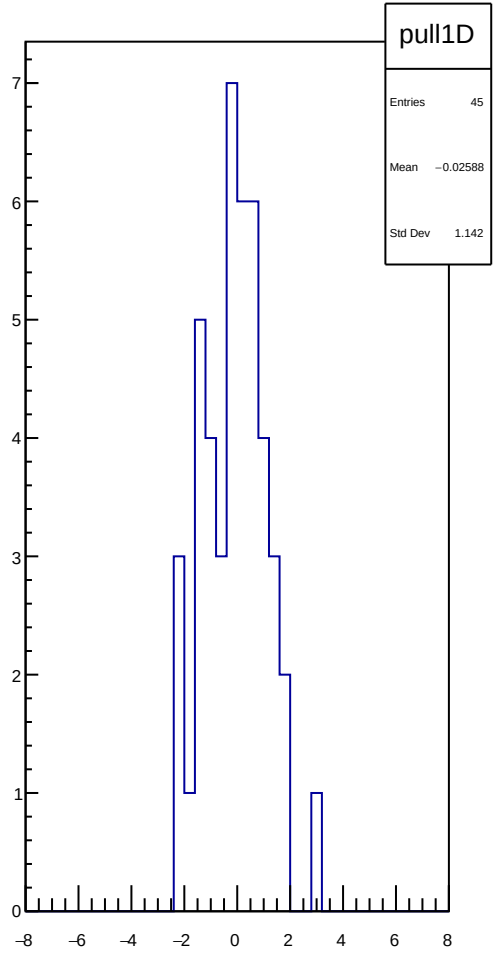

pull1D
Entries 45
Mean −0.08949
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

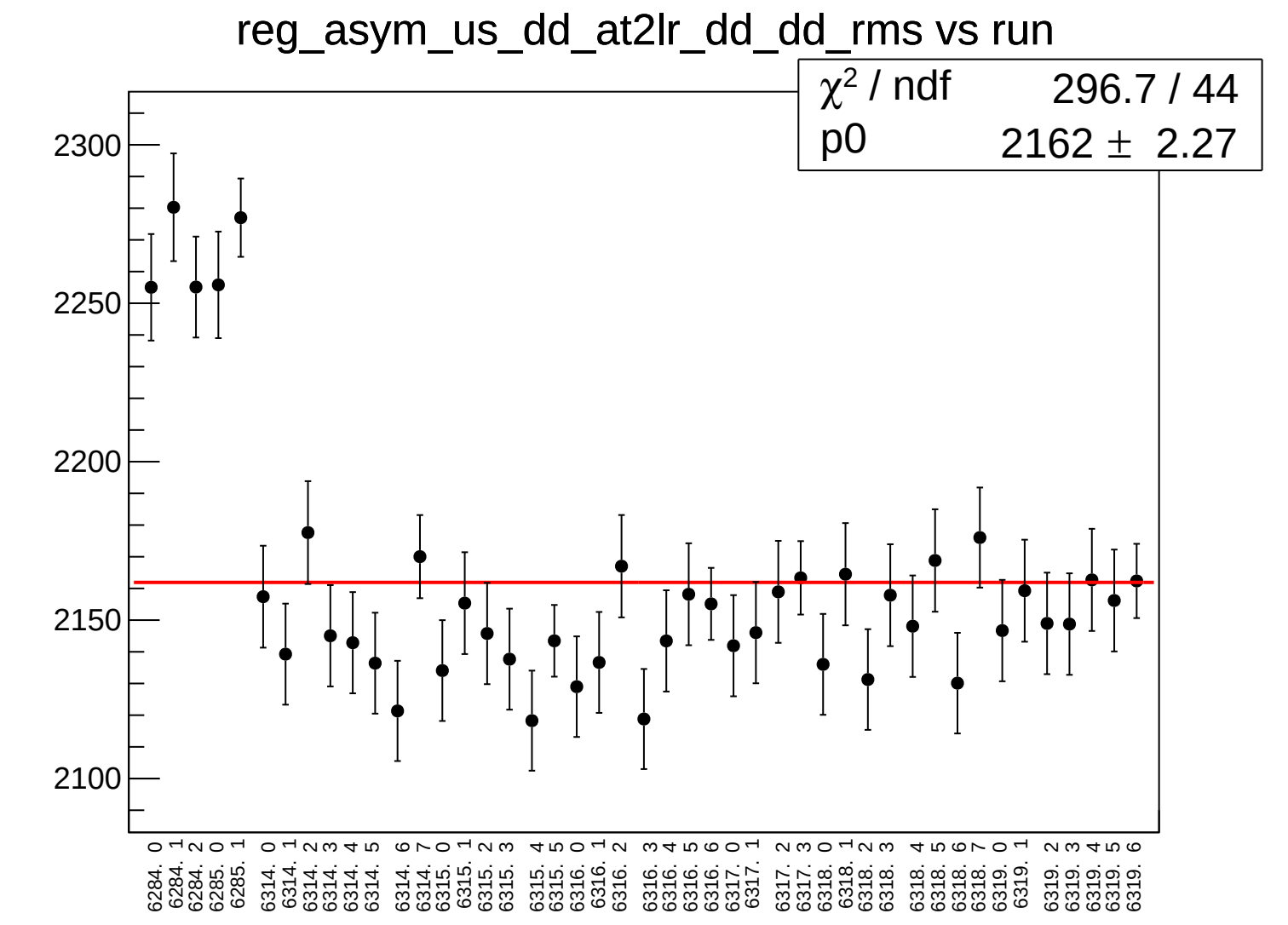

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.75e+04 / 44
p0 256.3 ± 0.2797
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

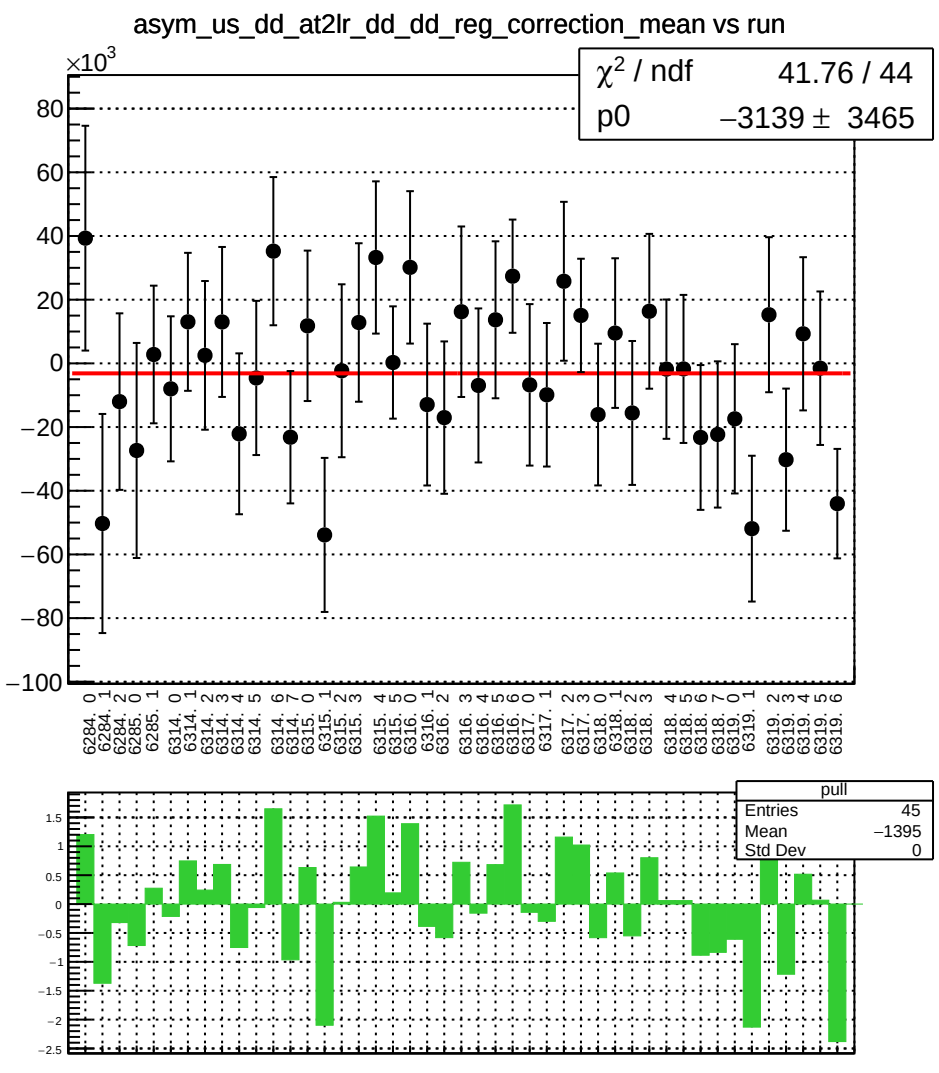

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.83 / 44
p0 −4.046e−13 ± 3.18e−13
pull
Entries 45
Mean 34.44
Std Dev 20.74
pull1D
Entries 45
Mean 0.1245
Std Dev 0.9903

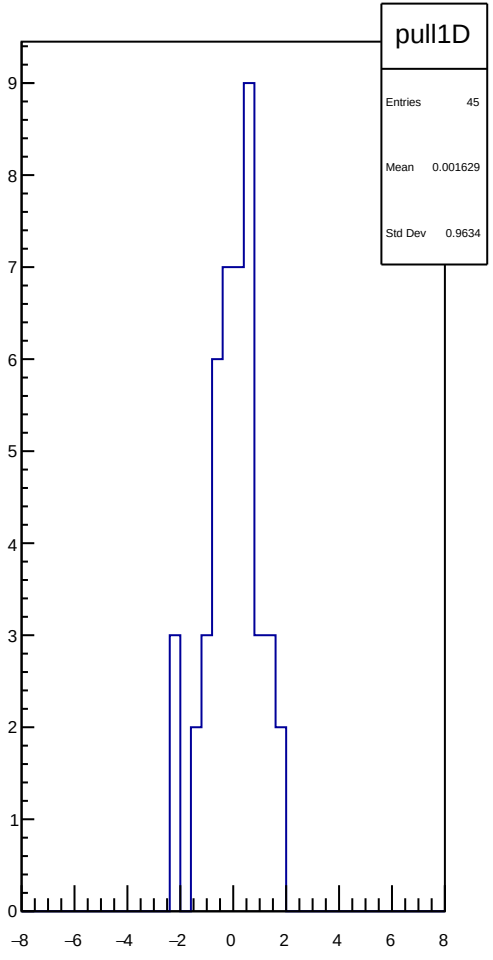

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.27e+05 / 44
p0 1.713e−10 ± 2.248e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

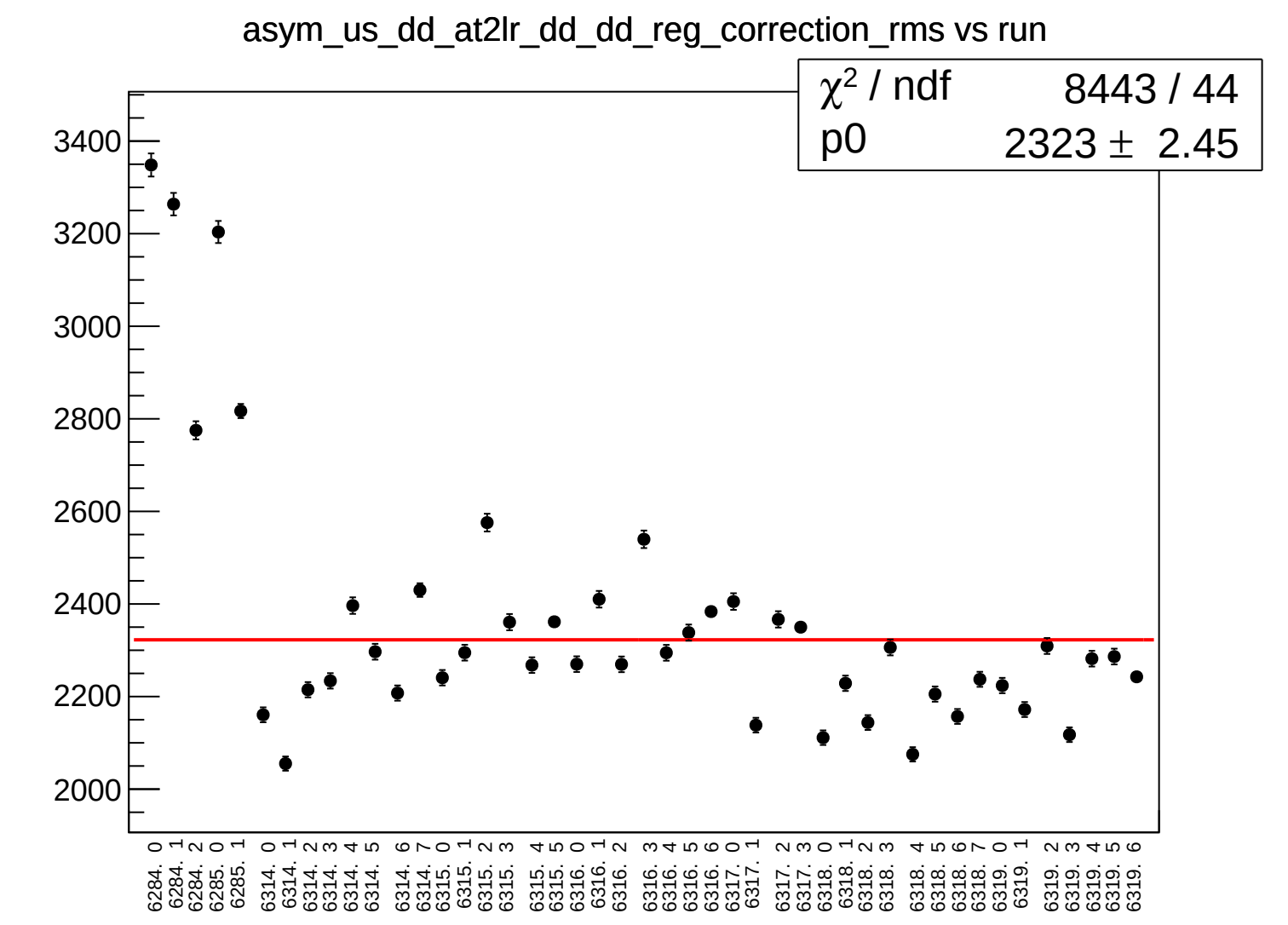

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 58.75 / 44
p0 1008 ± 3211
×10³
pull
Entries 45
Mean 86.22
Std Dev 0

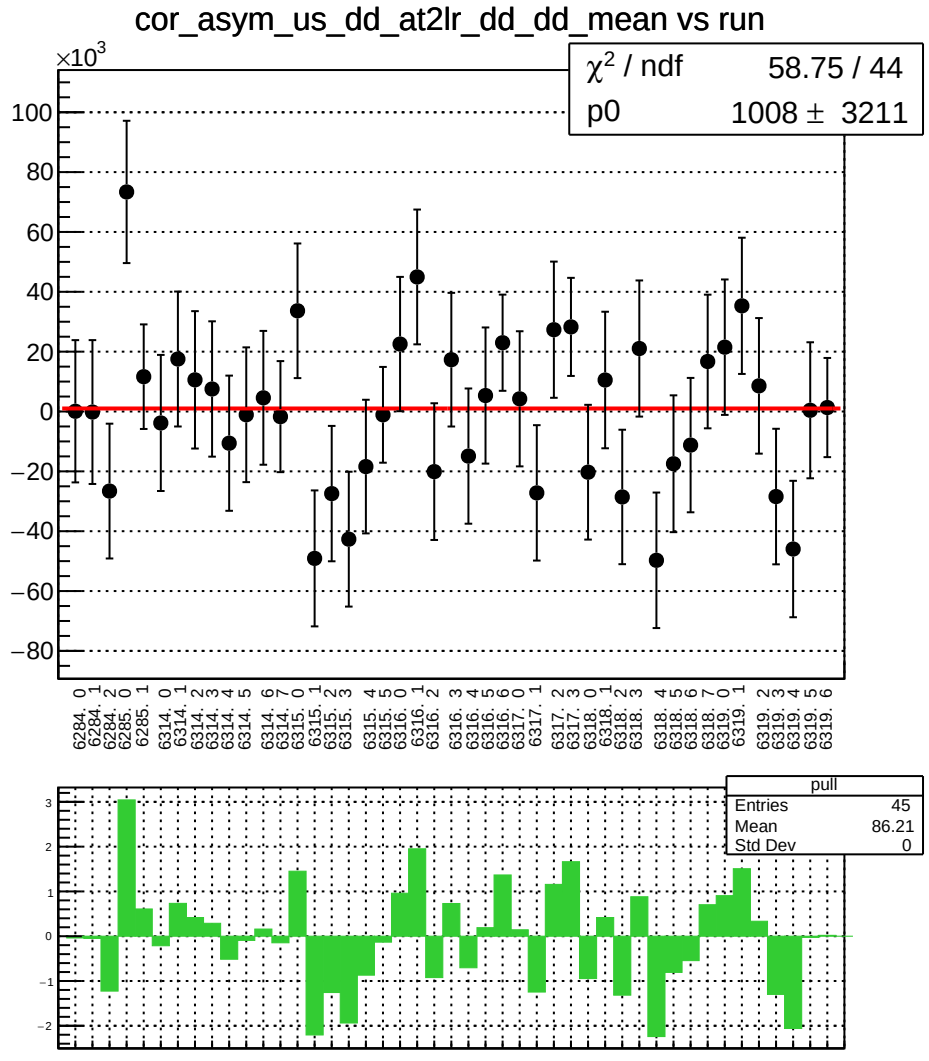

pull1D
Entries 45
Mean −0.02588
Std Dev 1.142

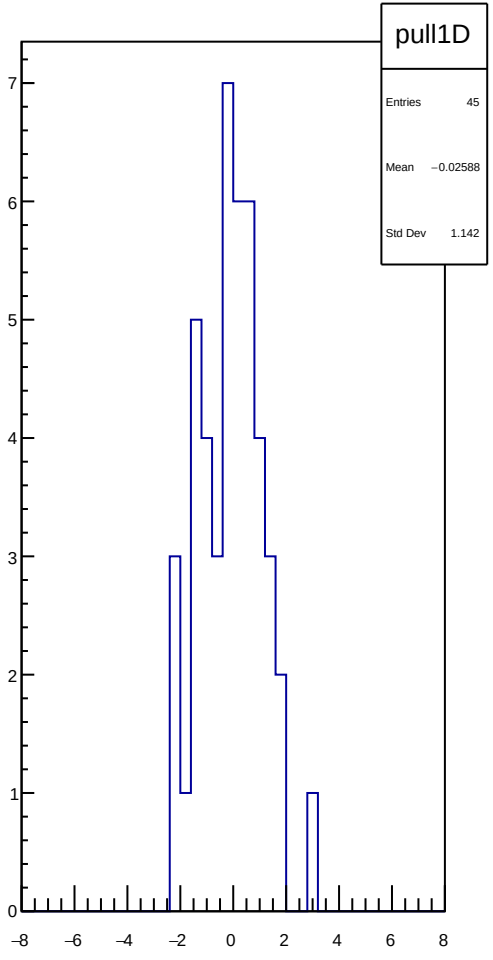

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 296.7 / 44
p0 2162 ± 2.27
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

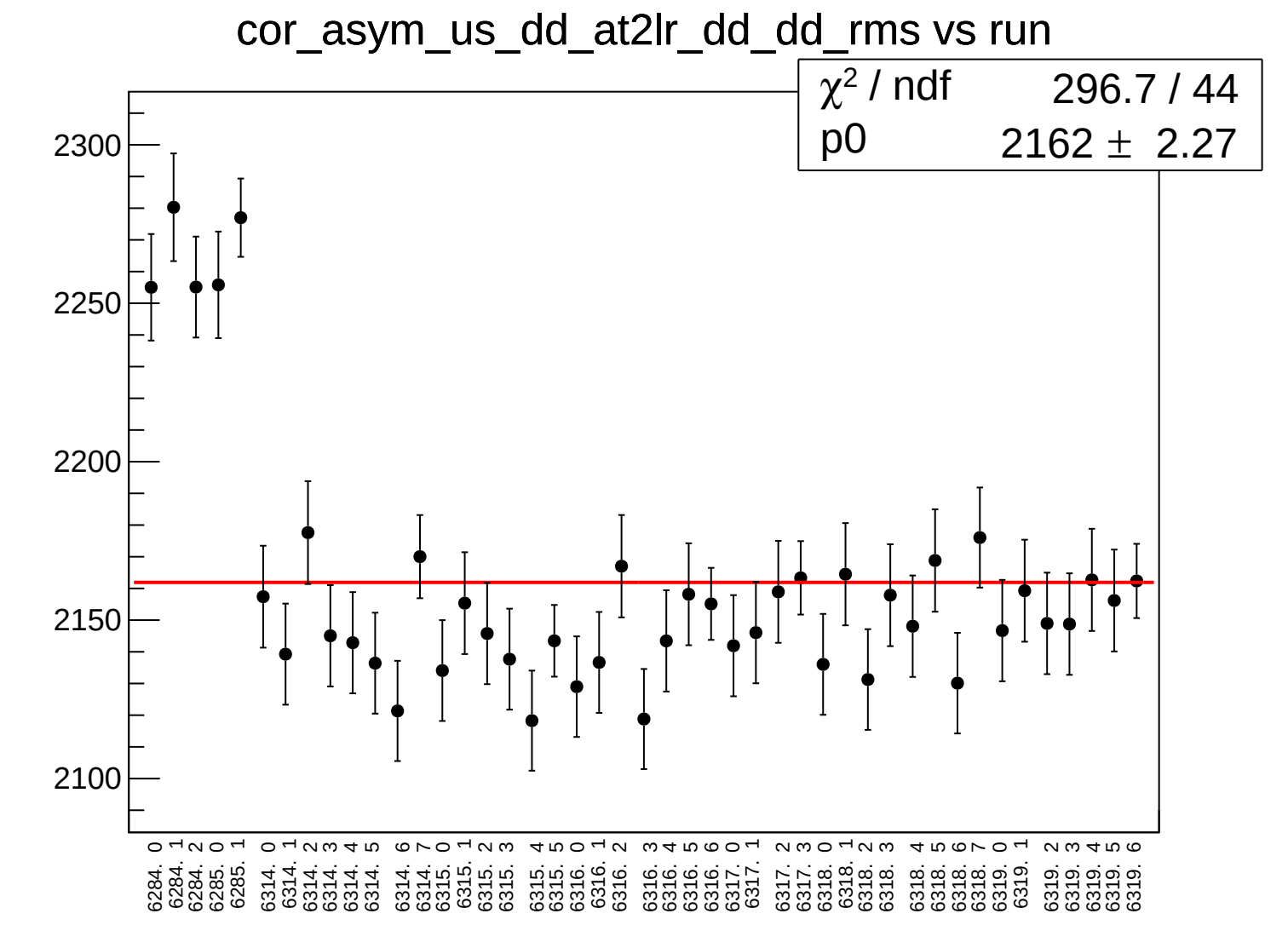

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.76 / 44
p0 −3139 ± 3465
pull
Entries 45
Mean −1395
Std Dev 0

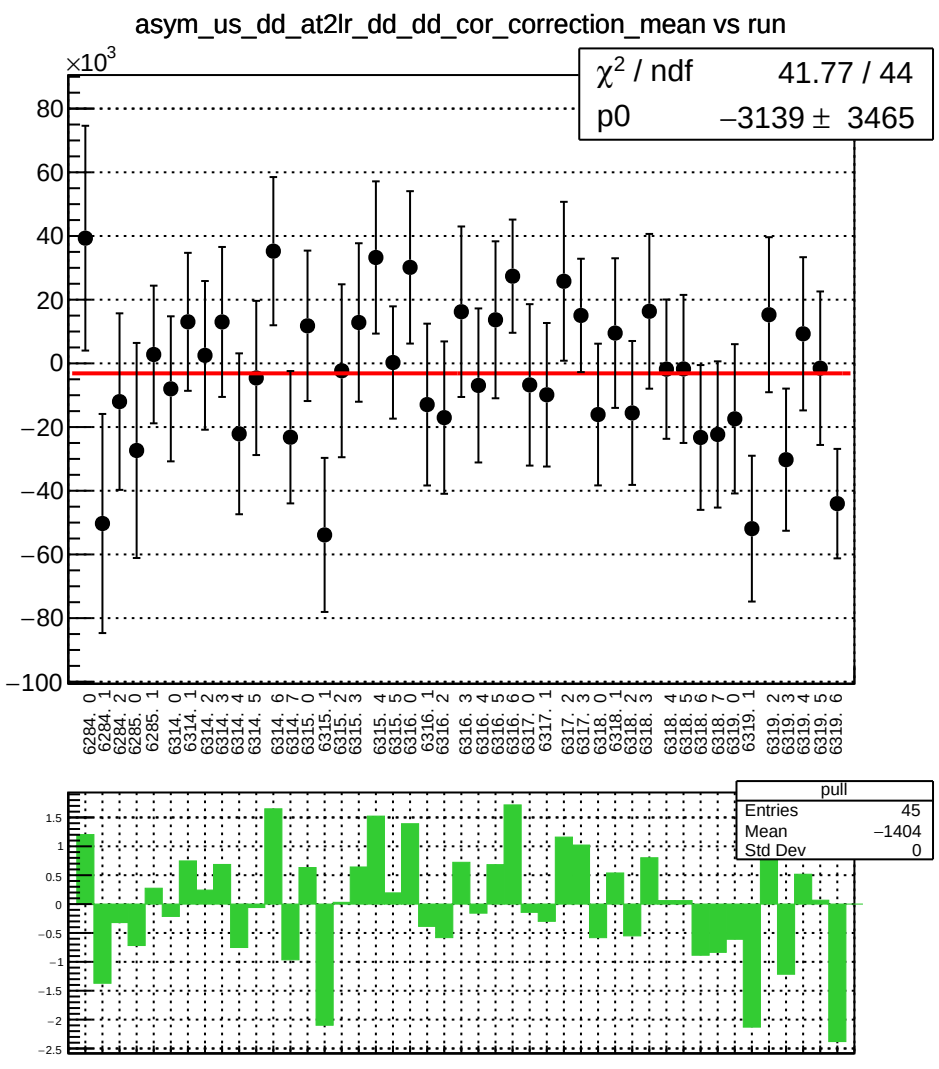

pull1D
Entries 45
Mean 0.001629
Std Dev 0.9634

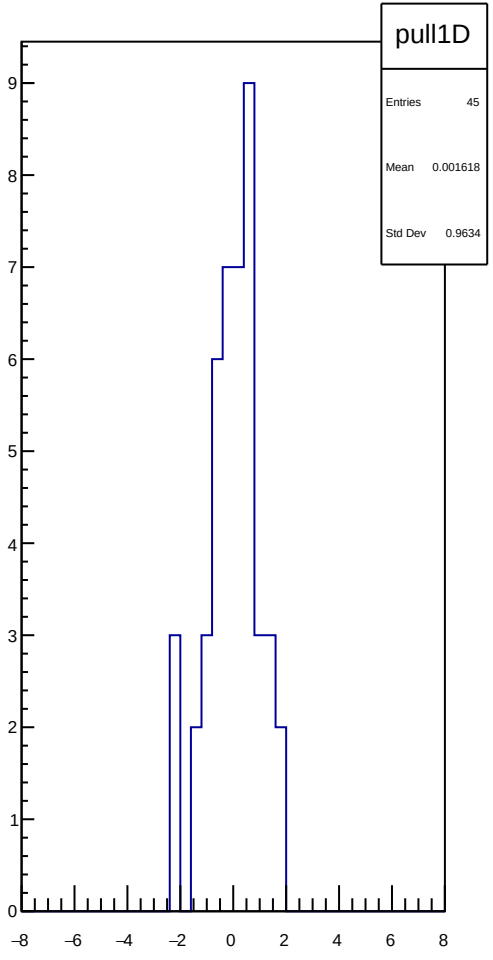

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 8443 / 44
p0 2323 ± 2.45
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

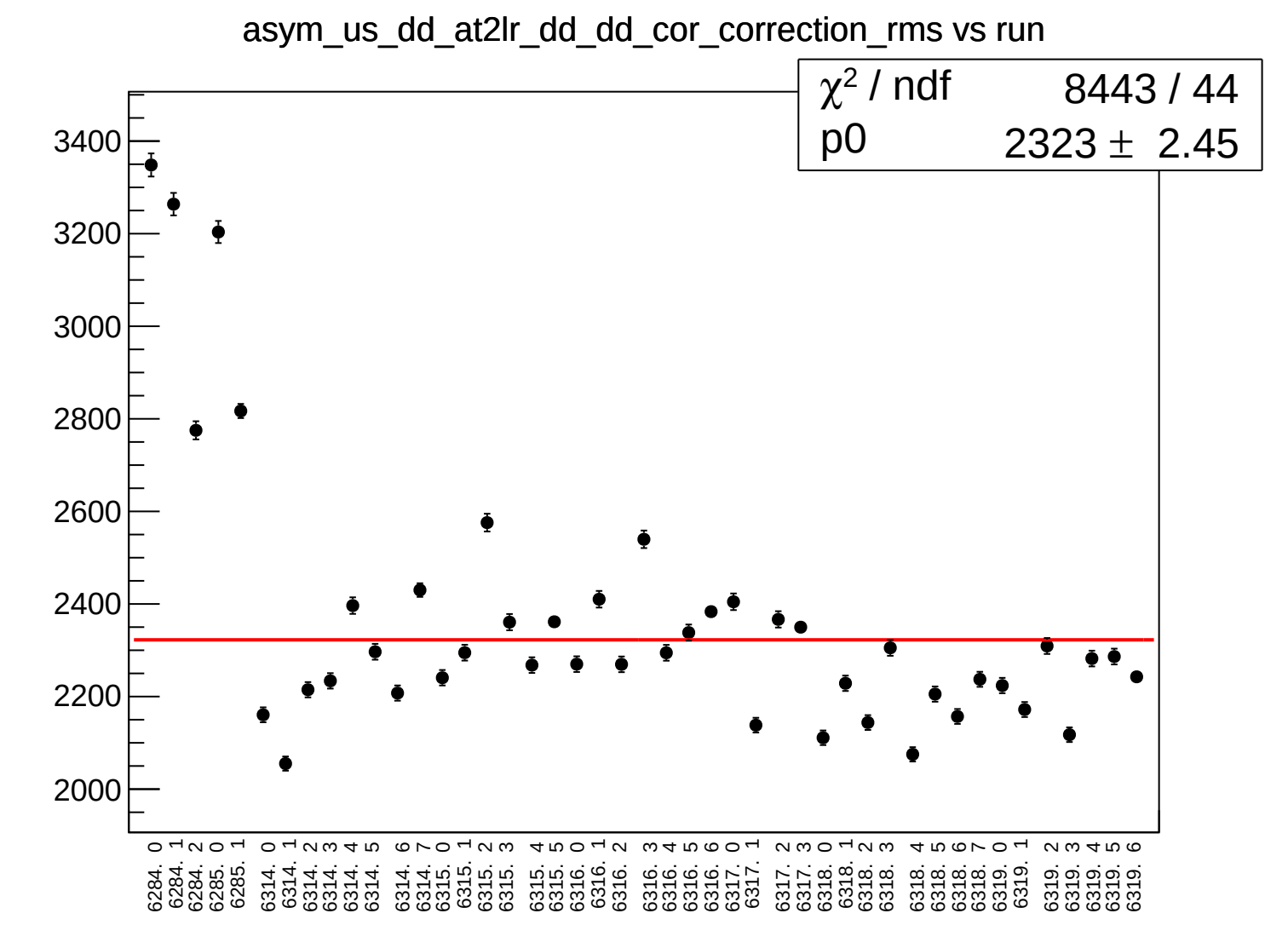

cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 58.75 / 44
p0 1008 ± 3211
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 86.21
Std Dev 0
3
2
1
0
−1
−2

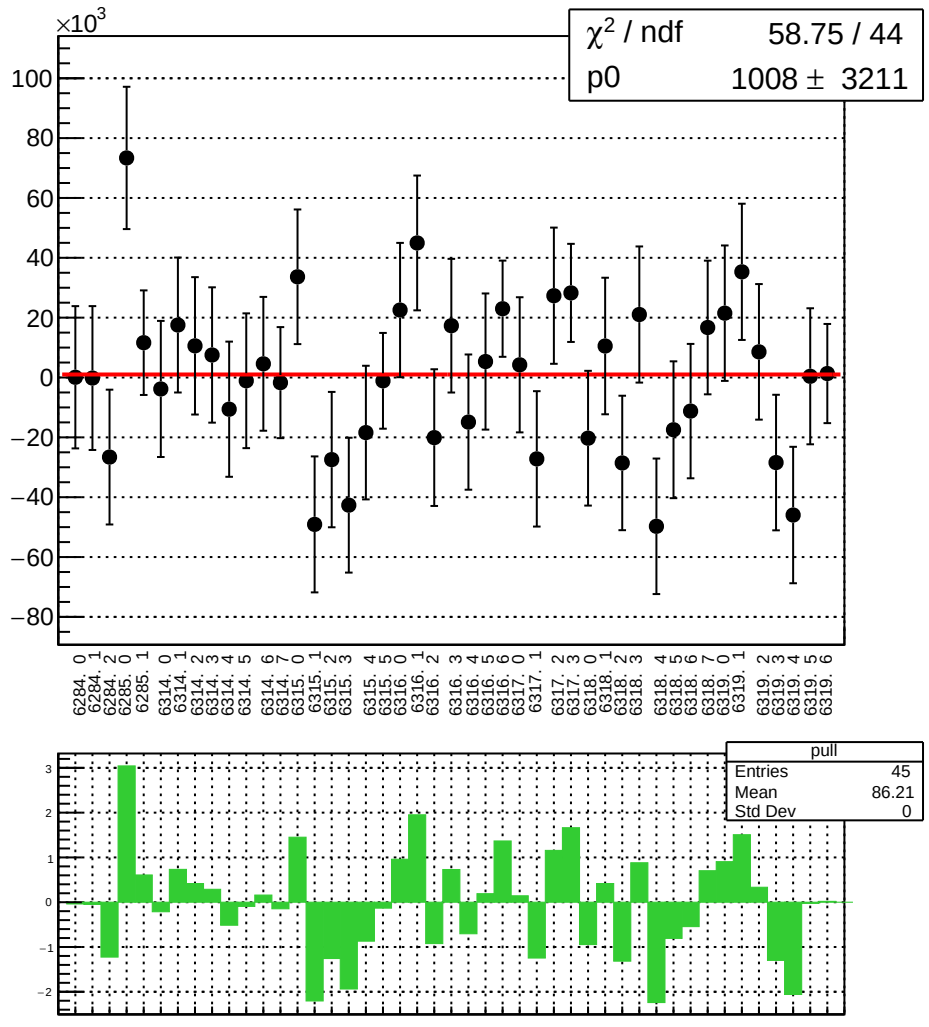

pull1D
Entries 45
Mean −0.02588
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

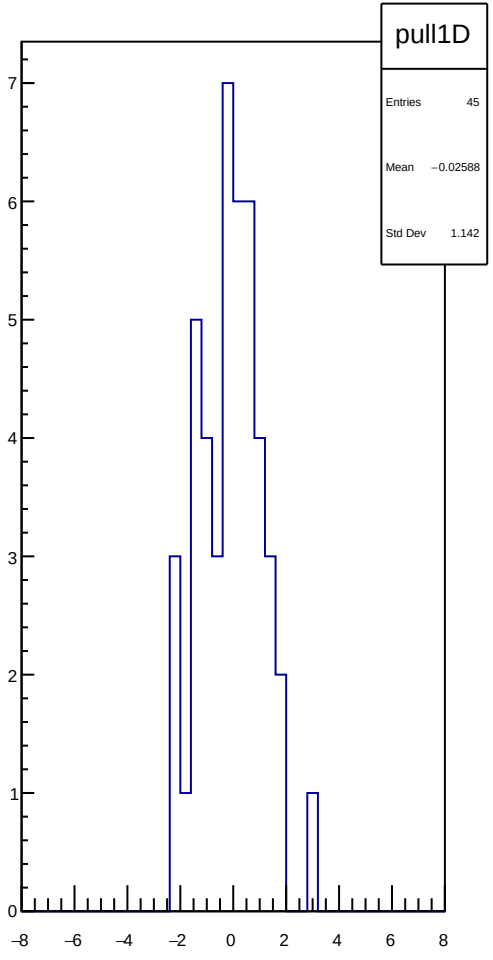

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 296.7 / 44
p0 2162 ± 2.27
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

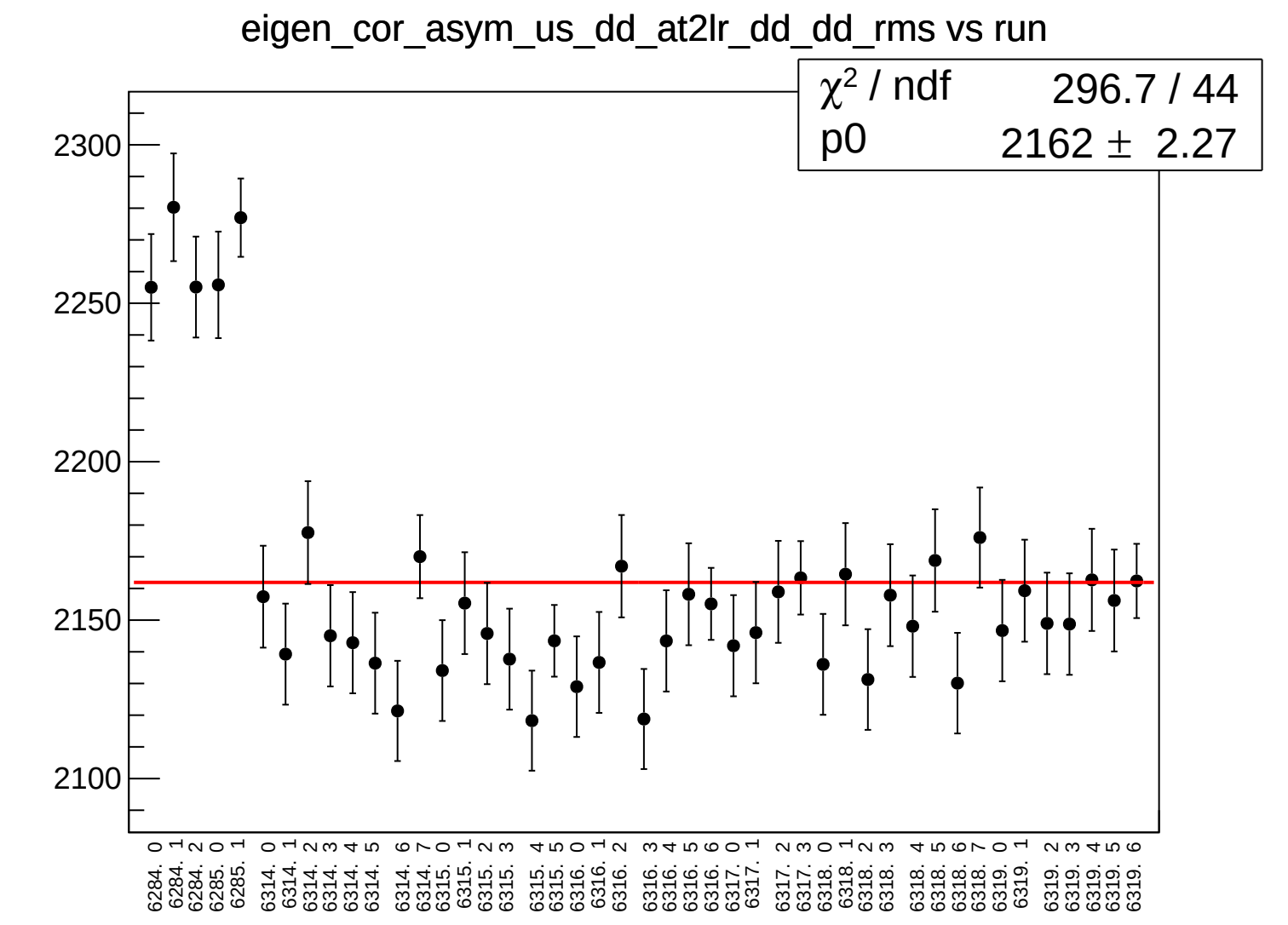

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.77 / 44
p0 −3139 ± 3465
pull
Entries 45
Mean −1404
Std Dev 0

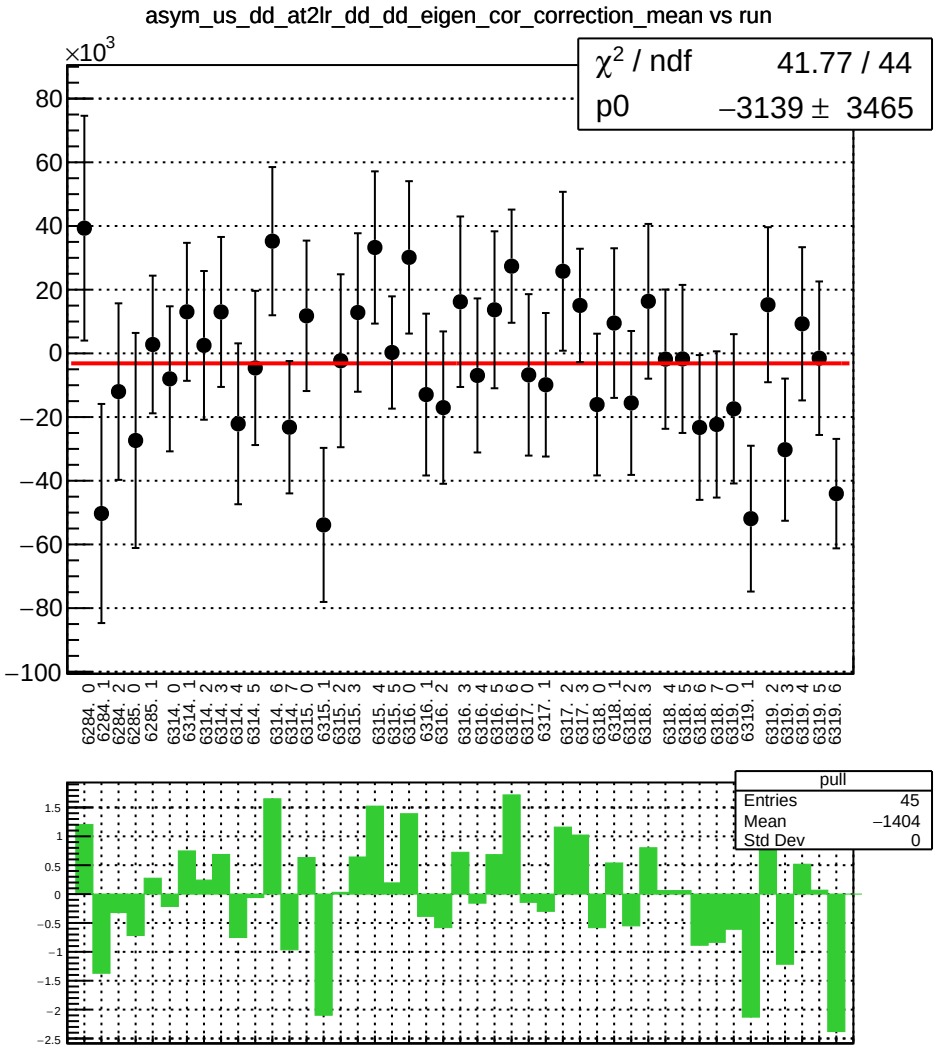

pull1D
Entries 45
Mean 0.001618
Std Dev 0.9634

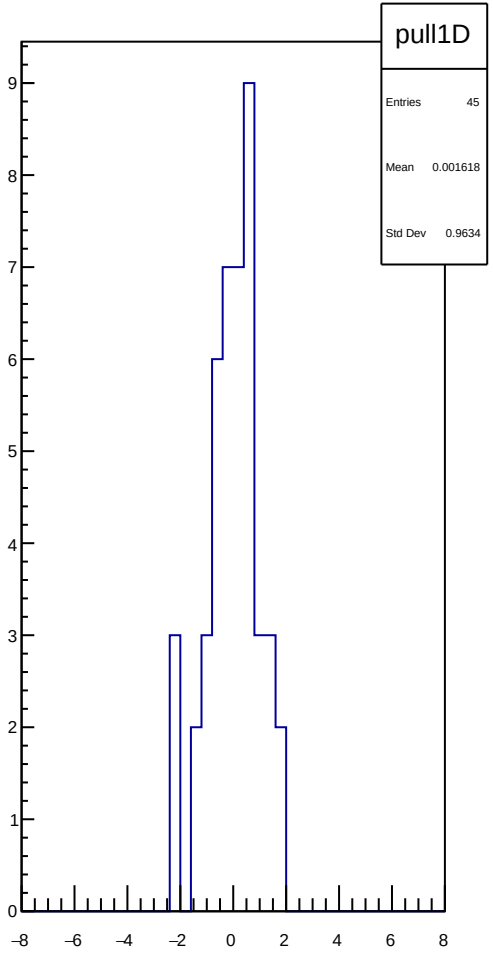

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8443 / 44
p0 2323 ± 2.45
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

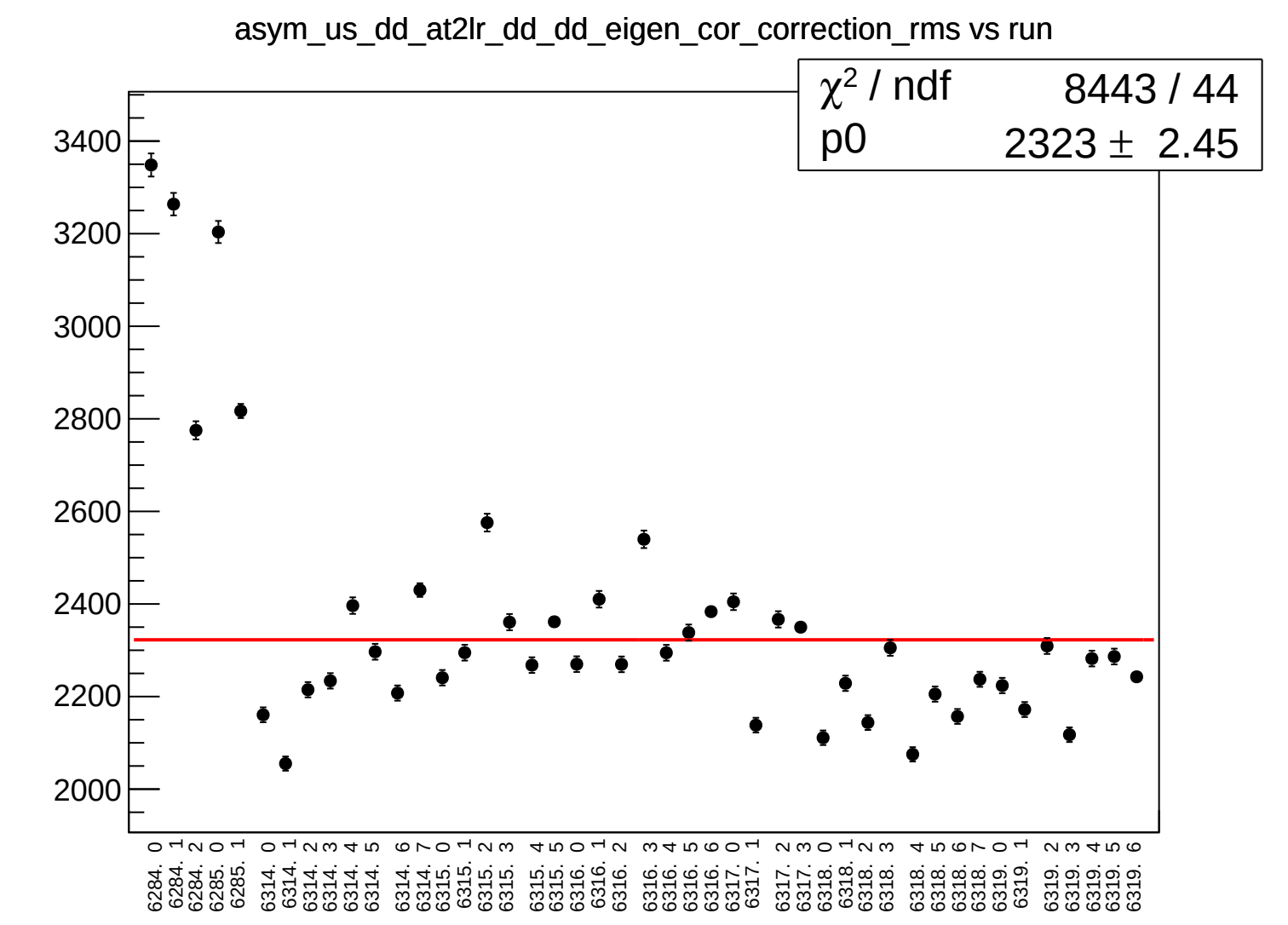

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 58.75 / 44
p0 1008 ± 3211
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 86.21
Std Dev 0
3
2
1
0
−1
−2

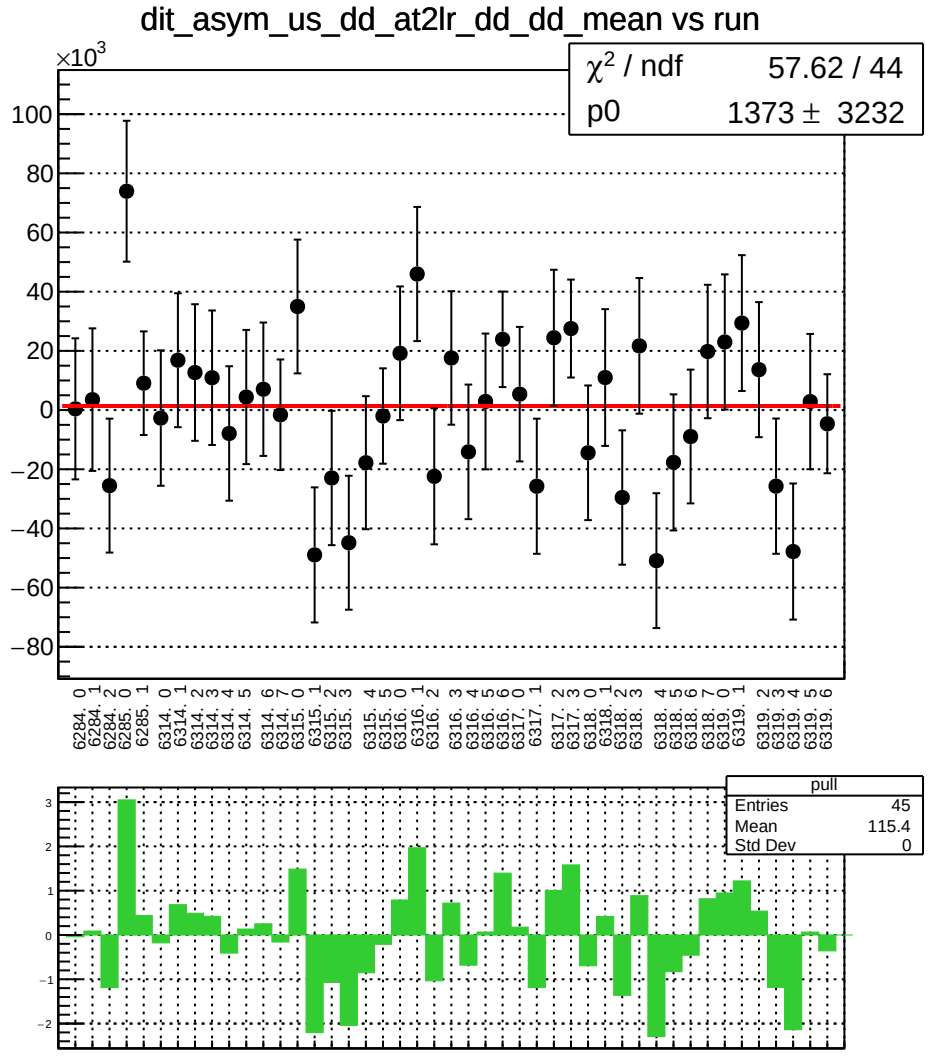

pull1D
Entries 45
Mean −0.02588
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

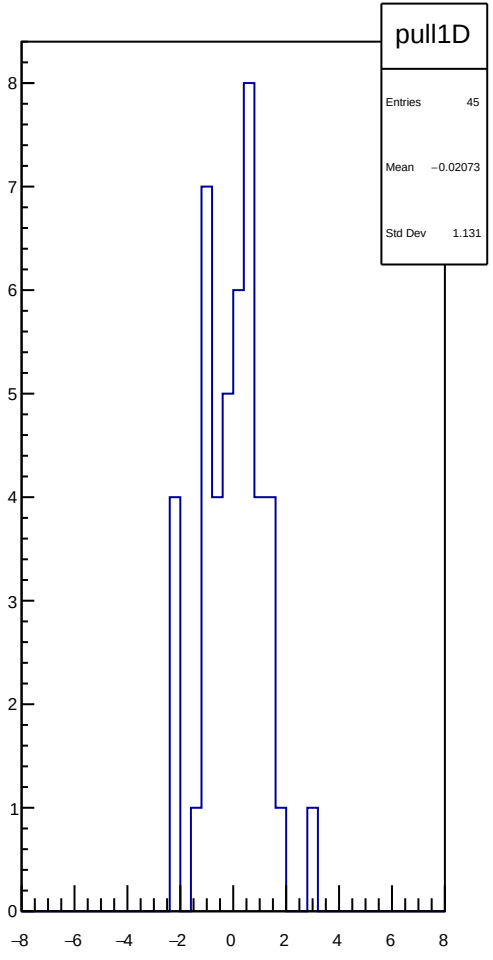

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 296.7 / 44
p0 2162 ± 2.27
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

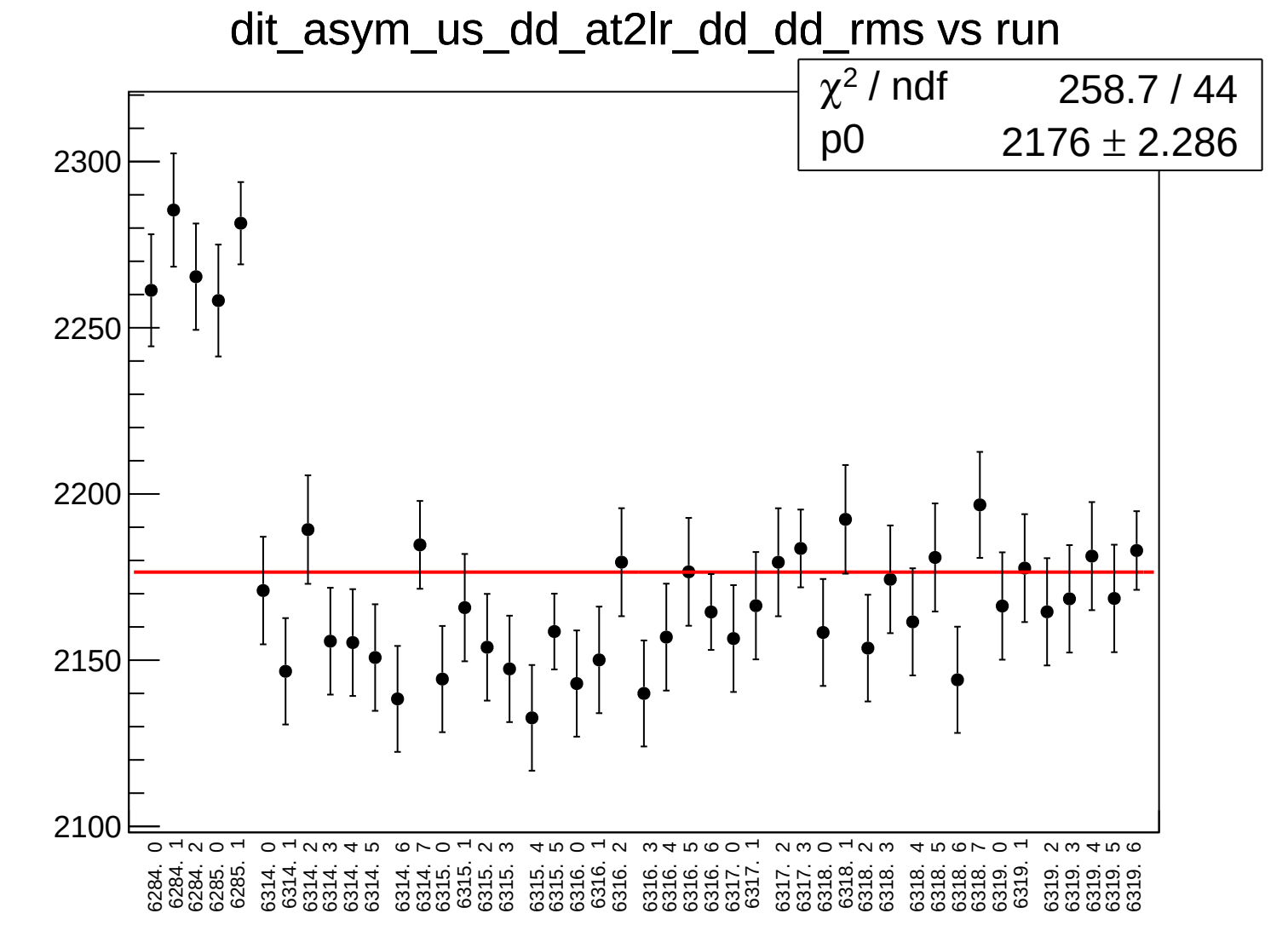

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.77 / 44
p0 −3139 ± 3465
pull
Entries 45
Mean −1404
Std Dev 0

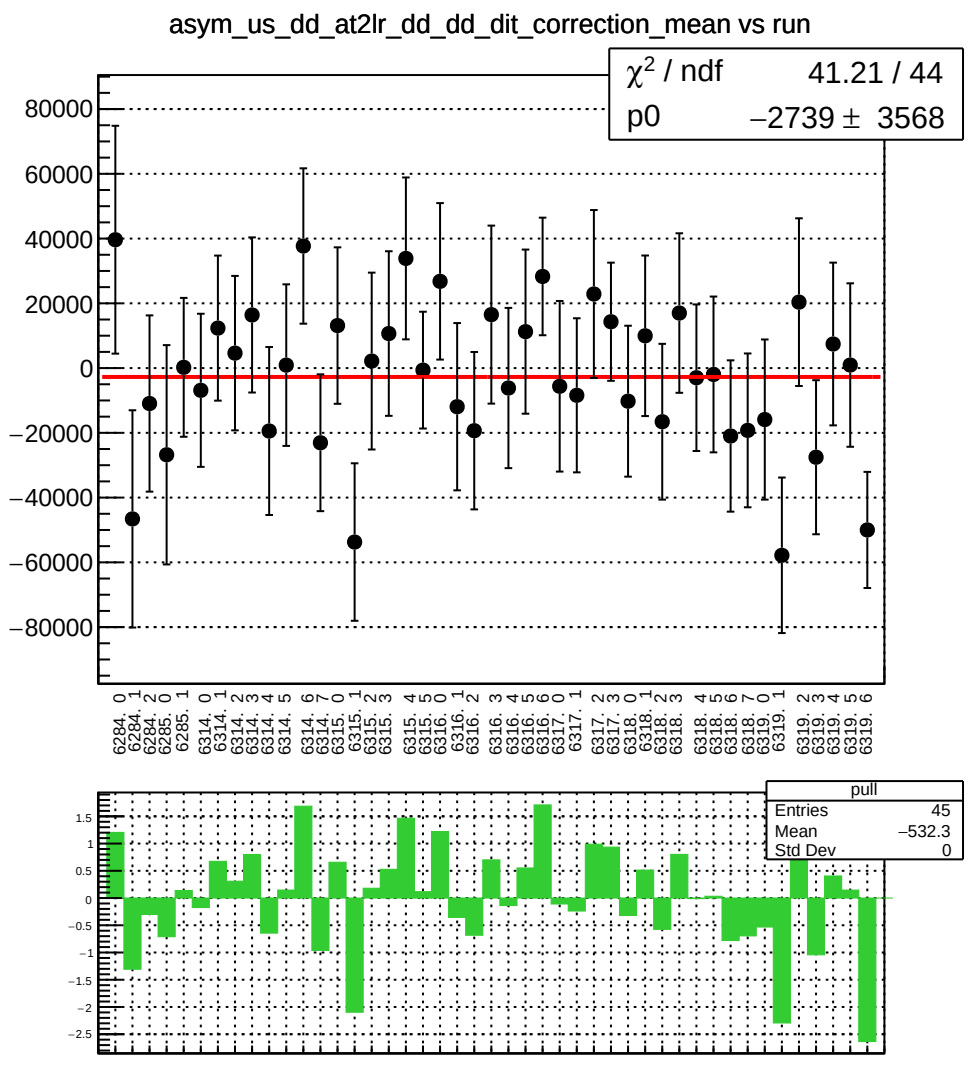

pull1D
Entries 45
Mean 0.001618
Std Dev 0.9634

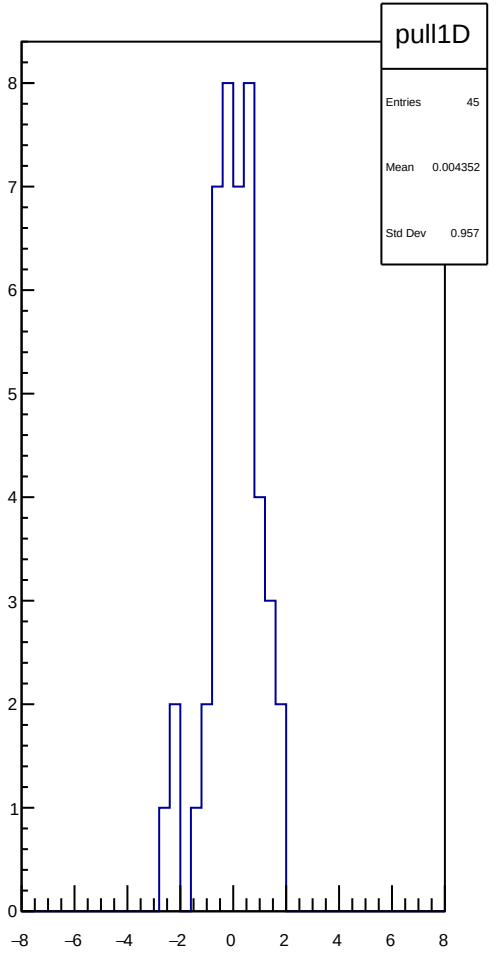

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8443 / 44
p0 2323 ± 2.45
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

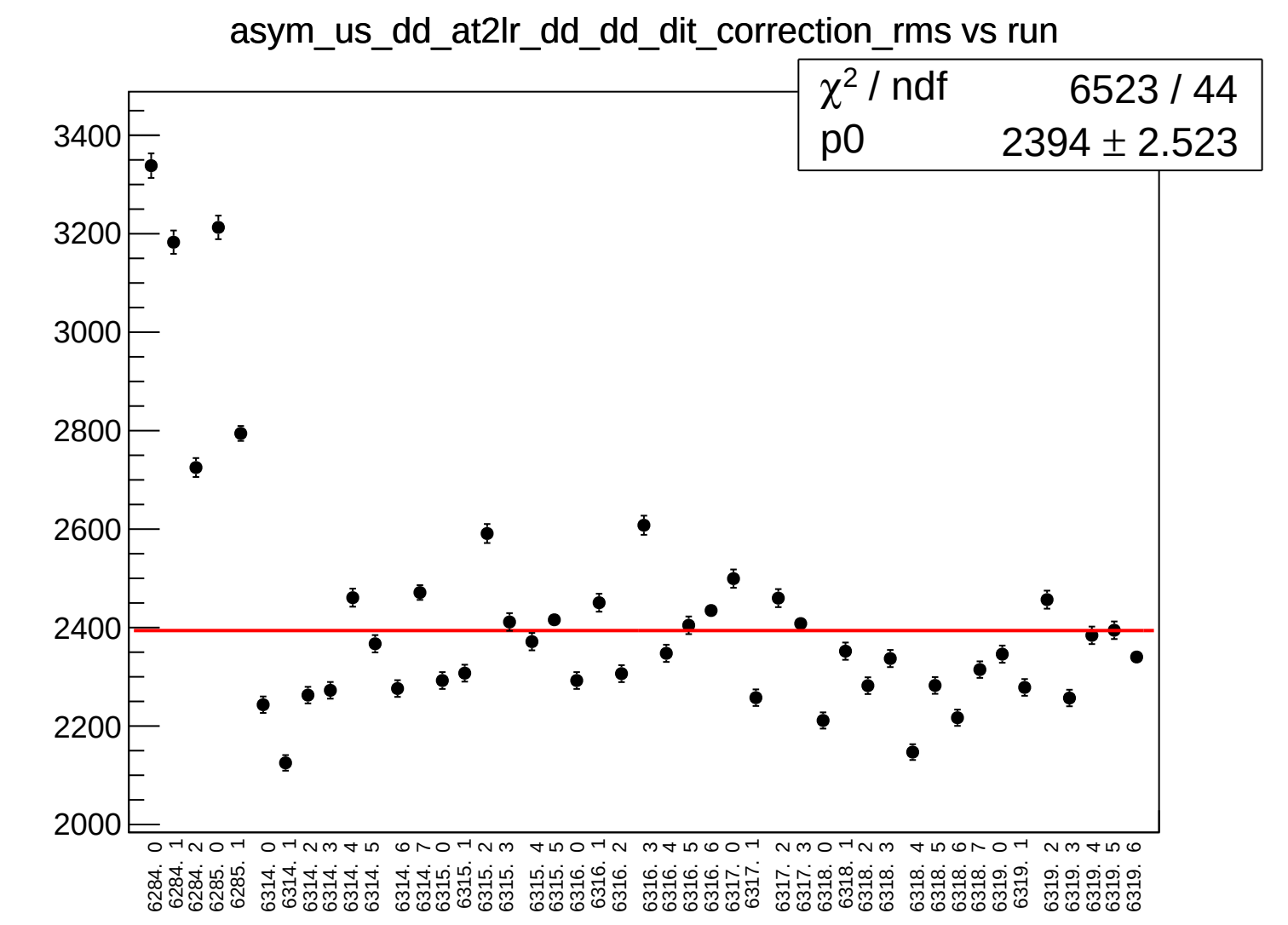

dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 57.62 / 44
p0 1373 ± 3232
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 115.4
Std Dev 0
3
2
1
0
−1
−2

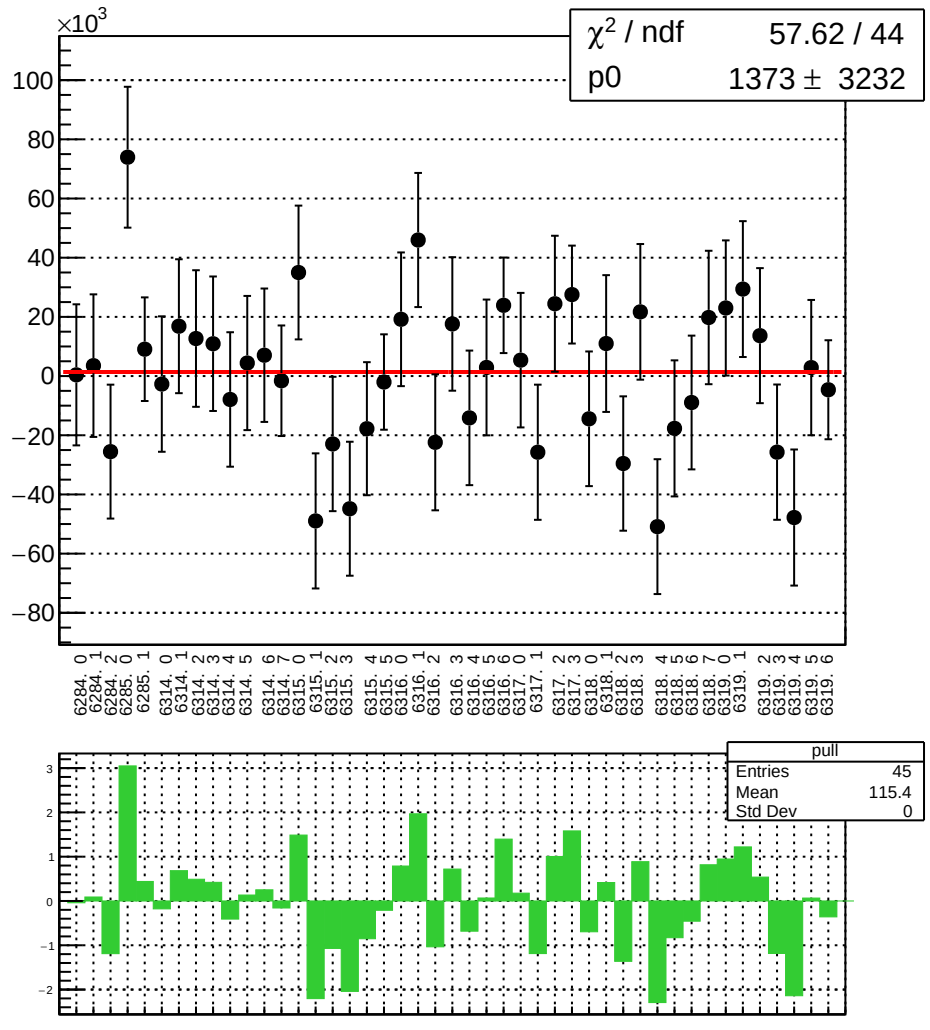

pull1D
Entries 45
Mean −0.02073
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

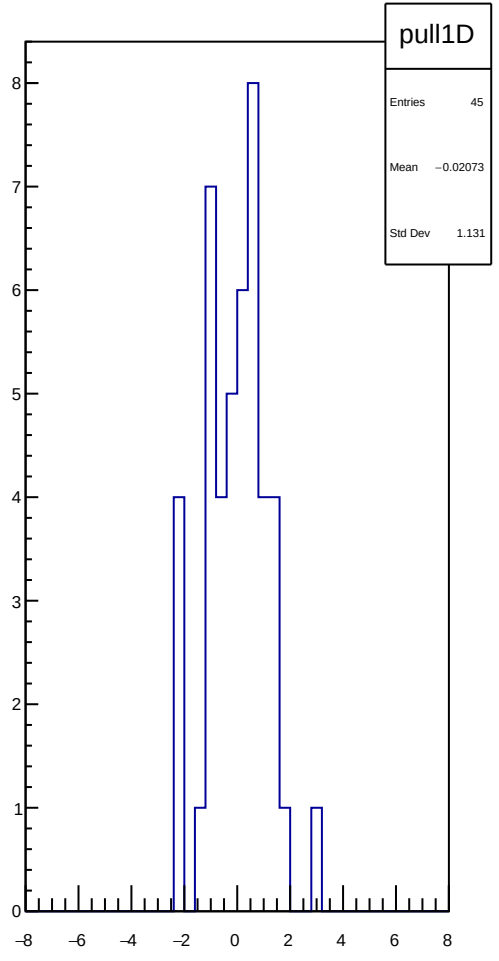

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 258.7 / 44
p0 2176 ± 2.286
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

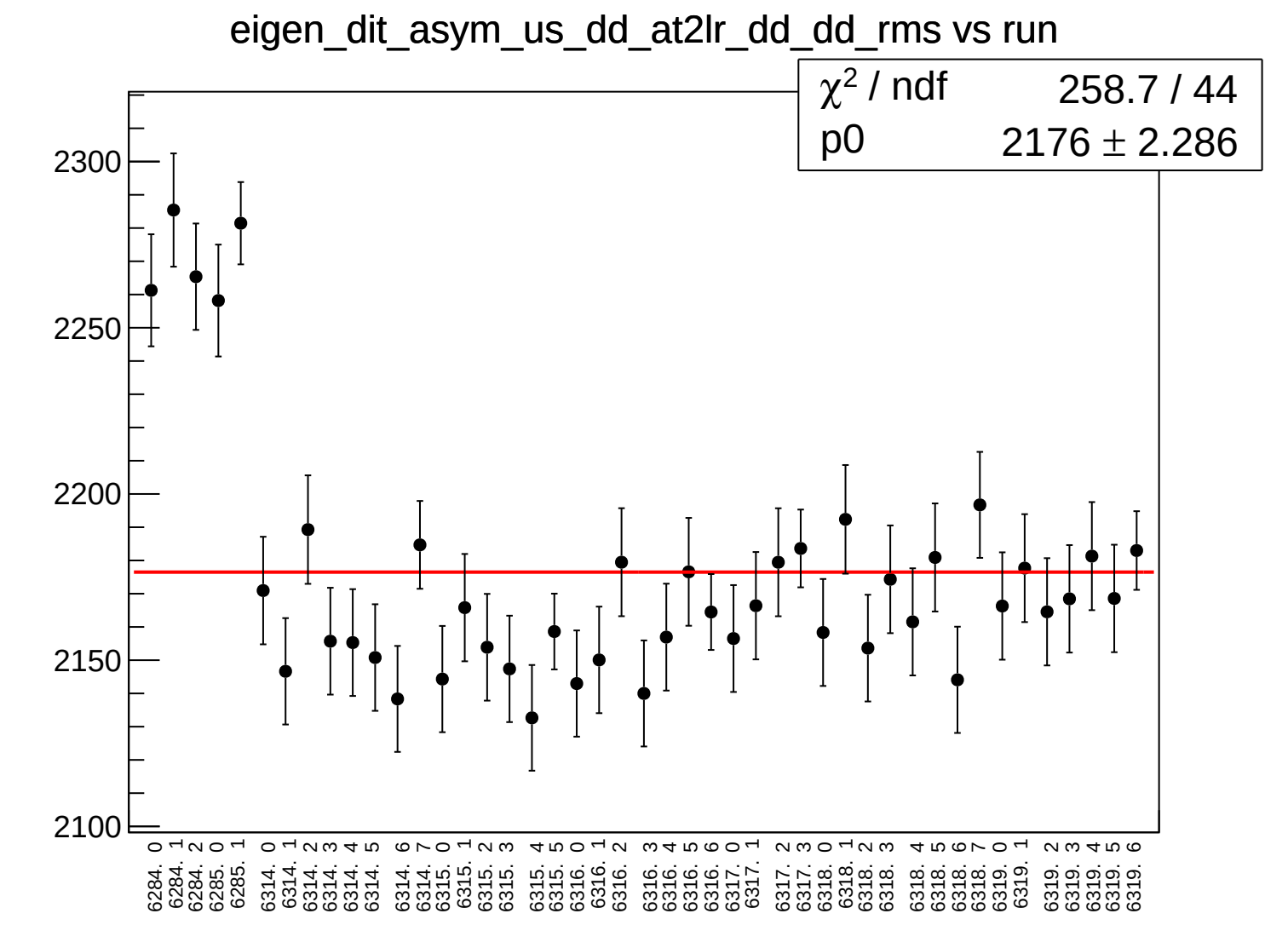

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 41.21 / 44
p0 −2739 ± 3568
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −532.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

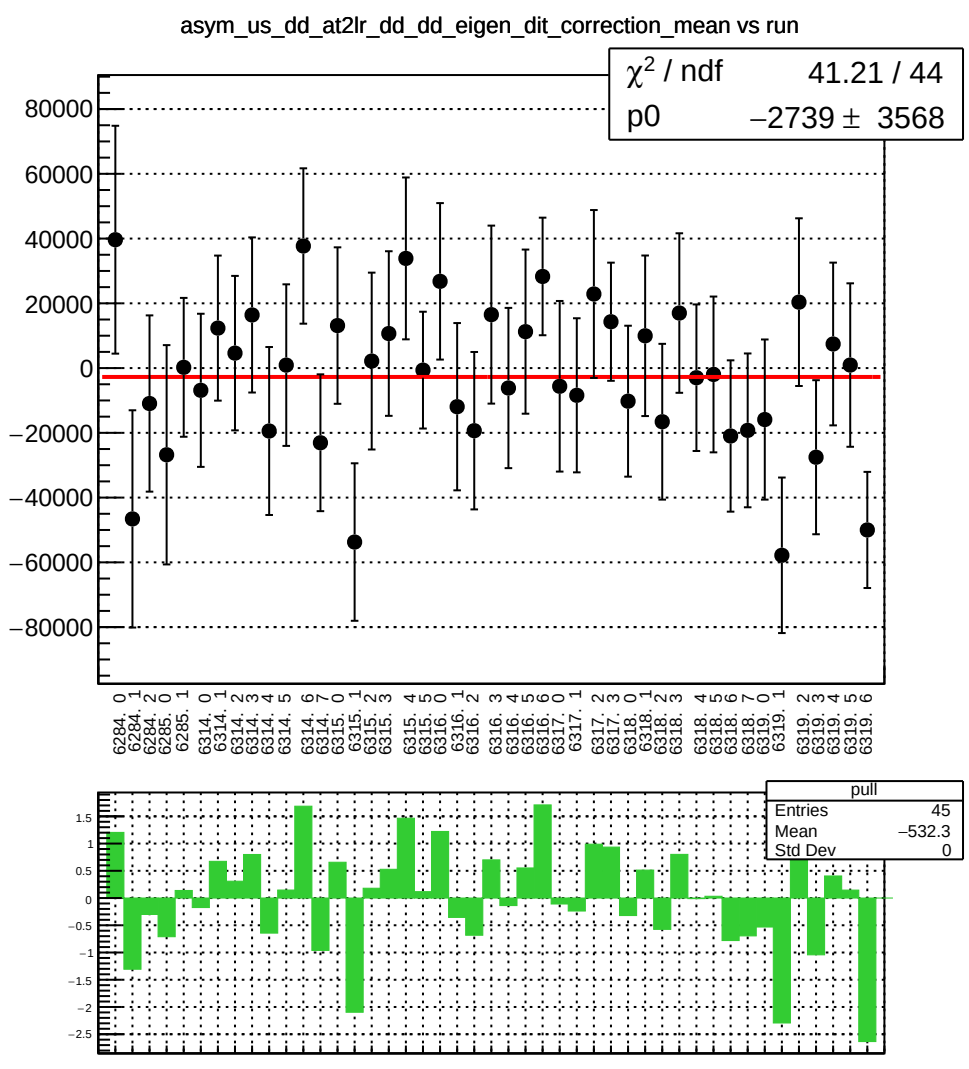

pull1D
Entries 45
Mean 0.004352
Std Dev 0.957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

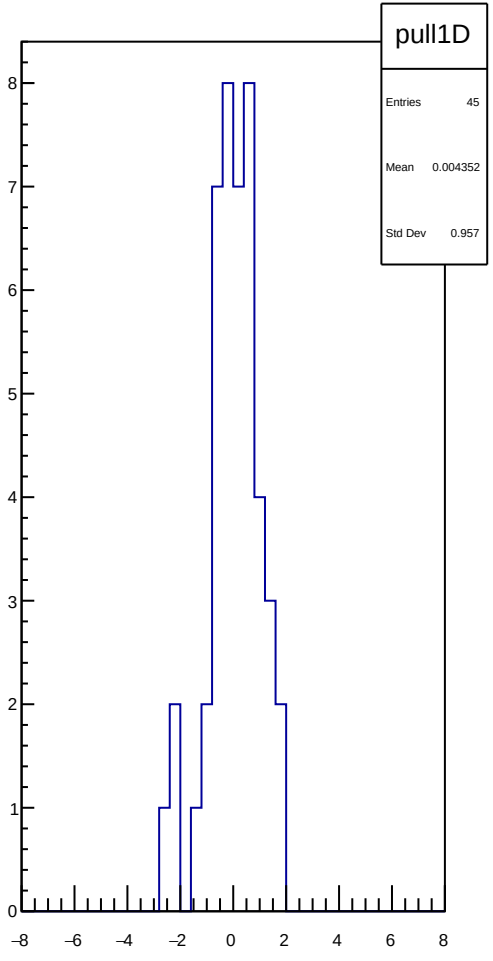

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6523 / 44
p0 2394 ± 2.523
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

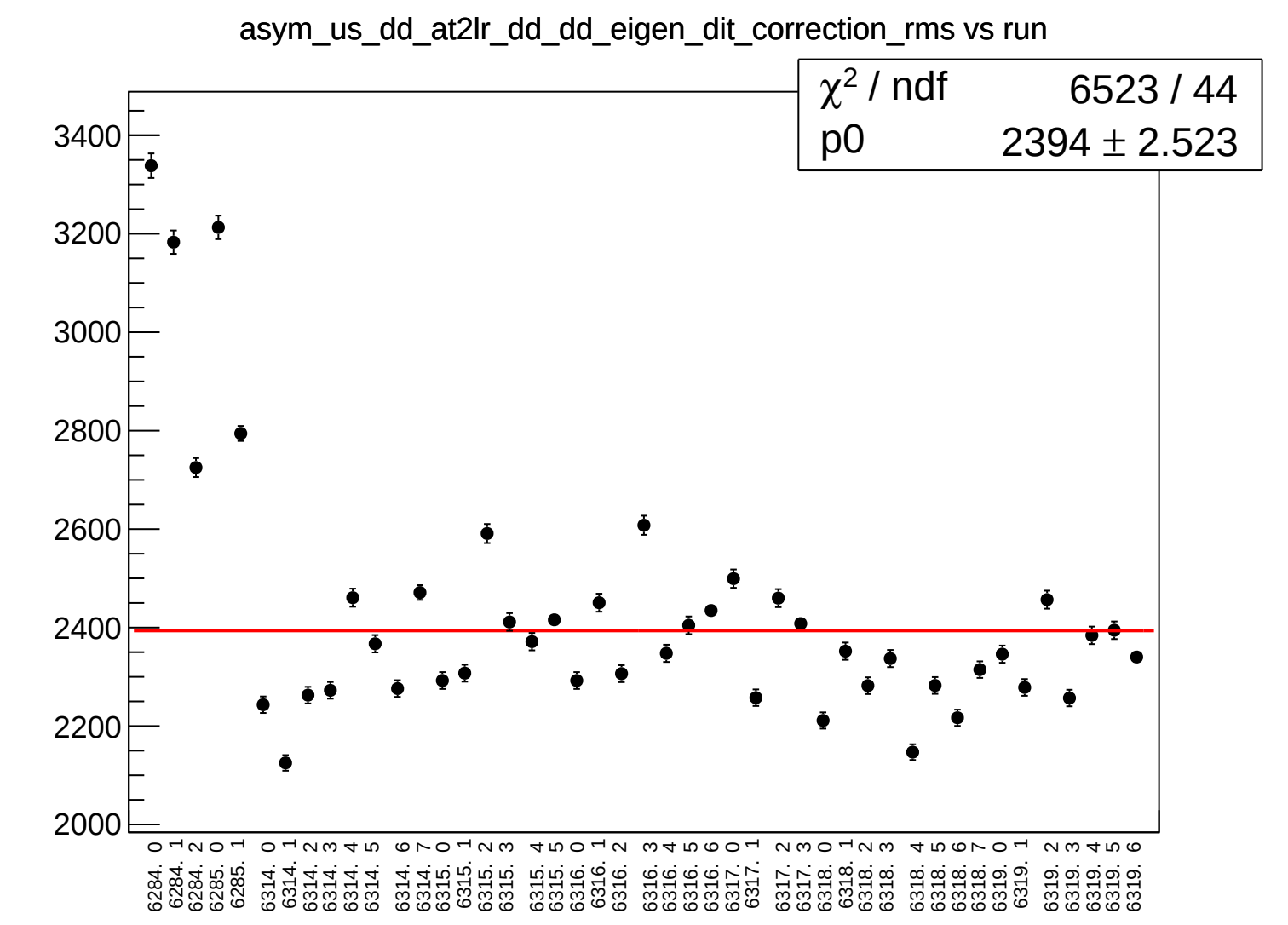

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 57.62 / 44
p0 1373 ± 3232
pull
Entries 45
Mean 115.4
Std Dev 0

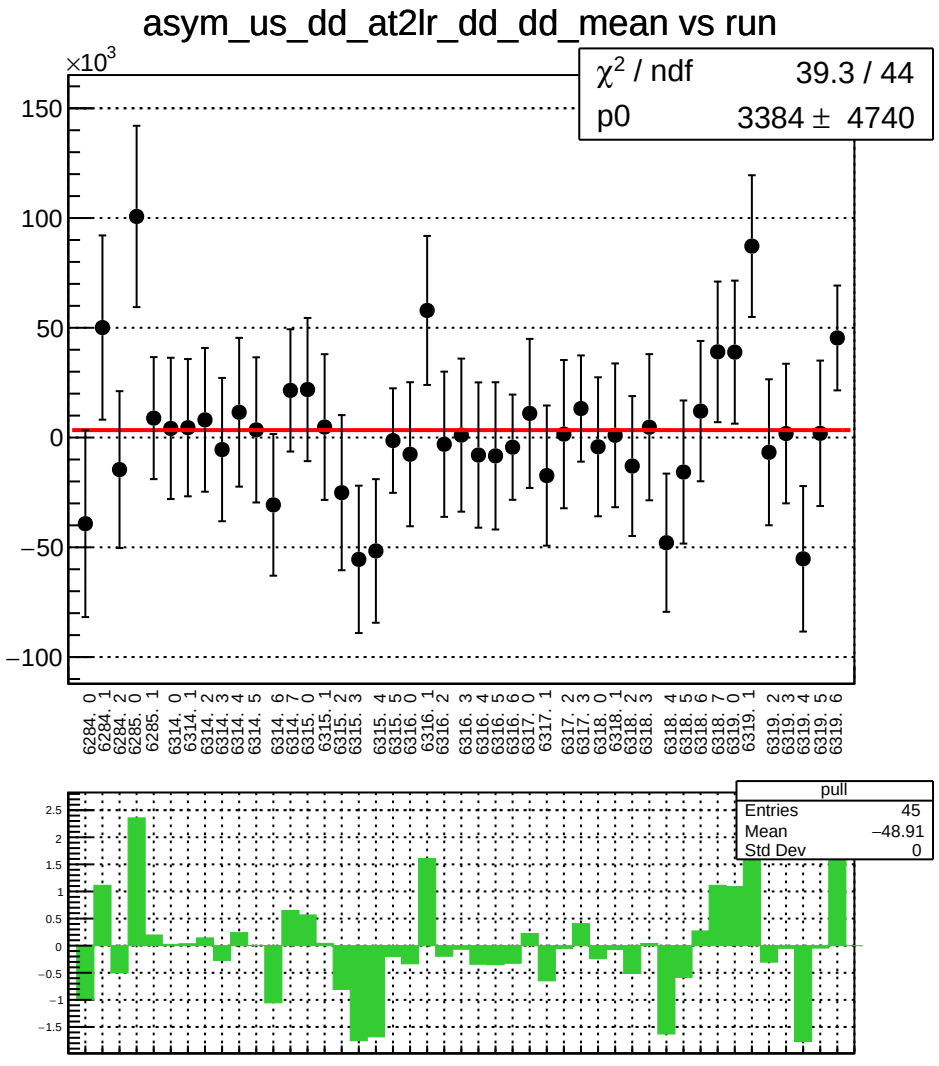

pull1D
Entries 45
Mean −0.02073
Std Dev 1.131

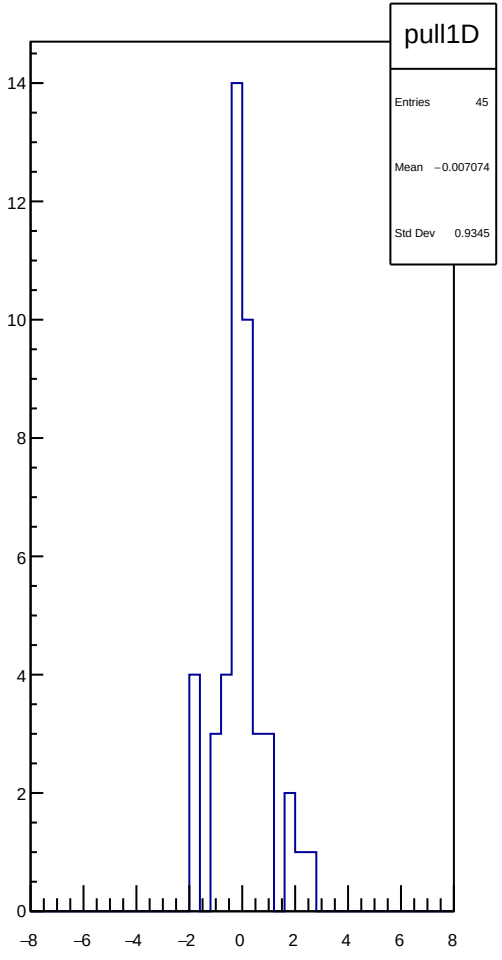

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 258.7 / 44
p0 2176 ± 2.286
2300
2250
2200
2150
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

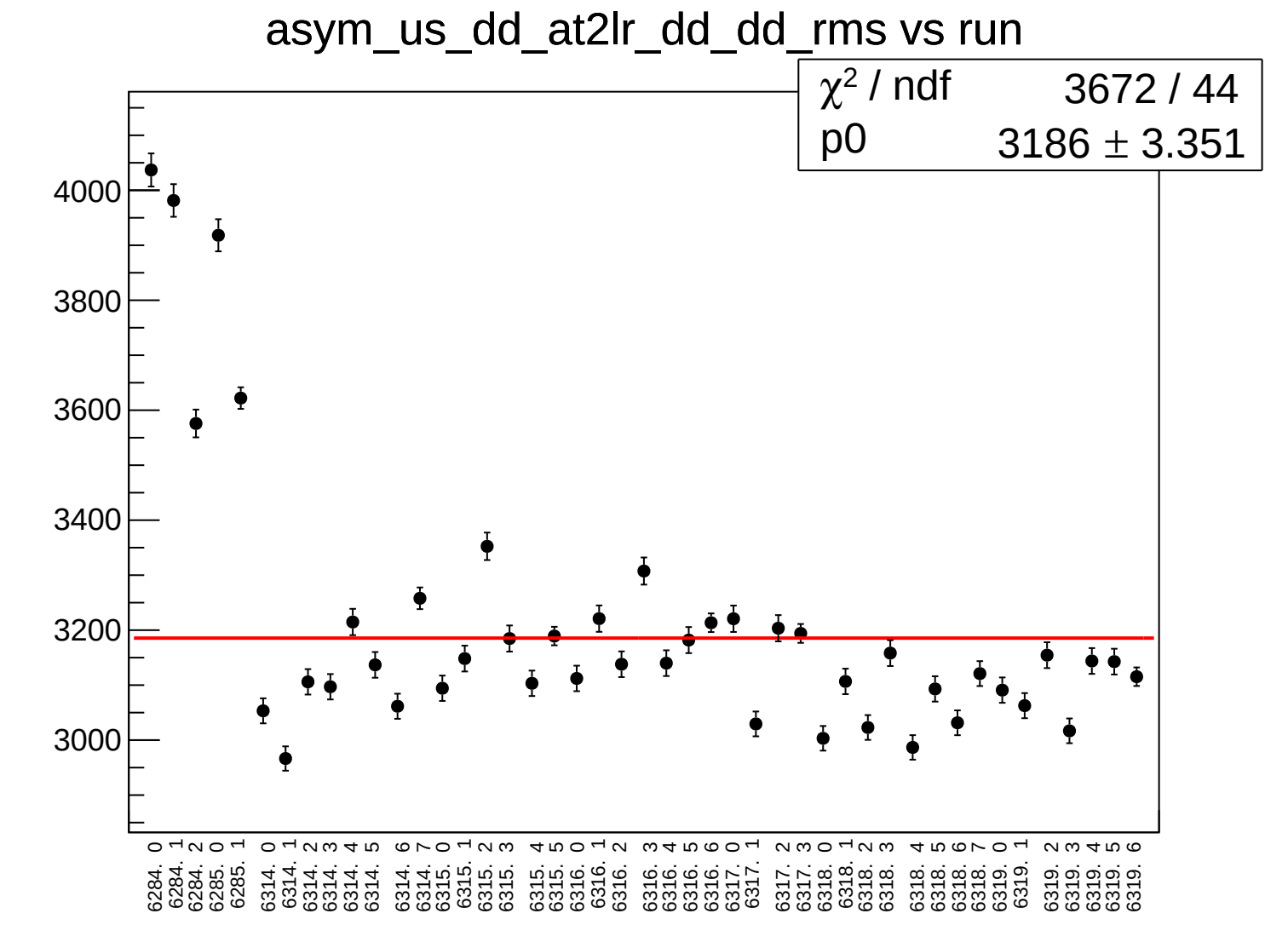

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.21 / 44
p0 −2739 ± 3568
pull
Entries 45
Mean −532.3
Std Dev 0

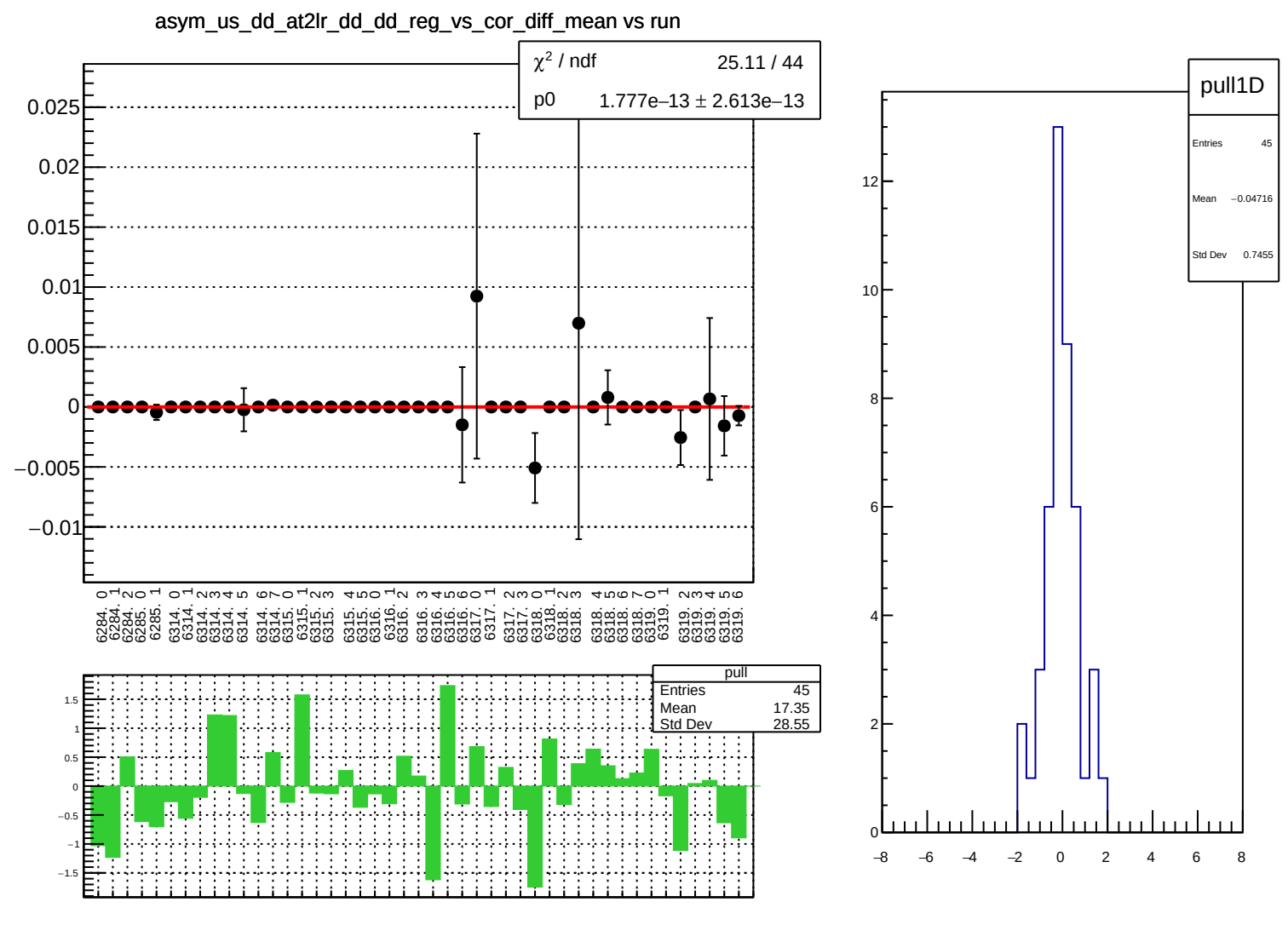

pull1D
Entries 45
Mean 0.004352
Std Dev 0.957


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6523 / 44
p0 2394 ± 2.523
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 39.3 / 44
p0 3384 ± 4740
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −48.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.007074
Std Dev 0.9345
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3672 / 44
p0 3186 ± 3.351
4000
3800
3600
3400
3200
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.11 / 44
p0 1.777e−13 ± 2.613e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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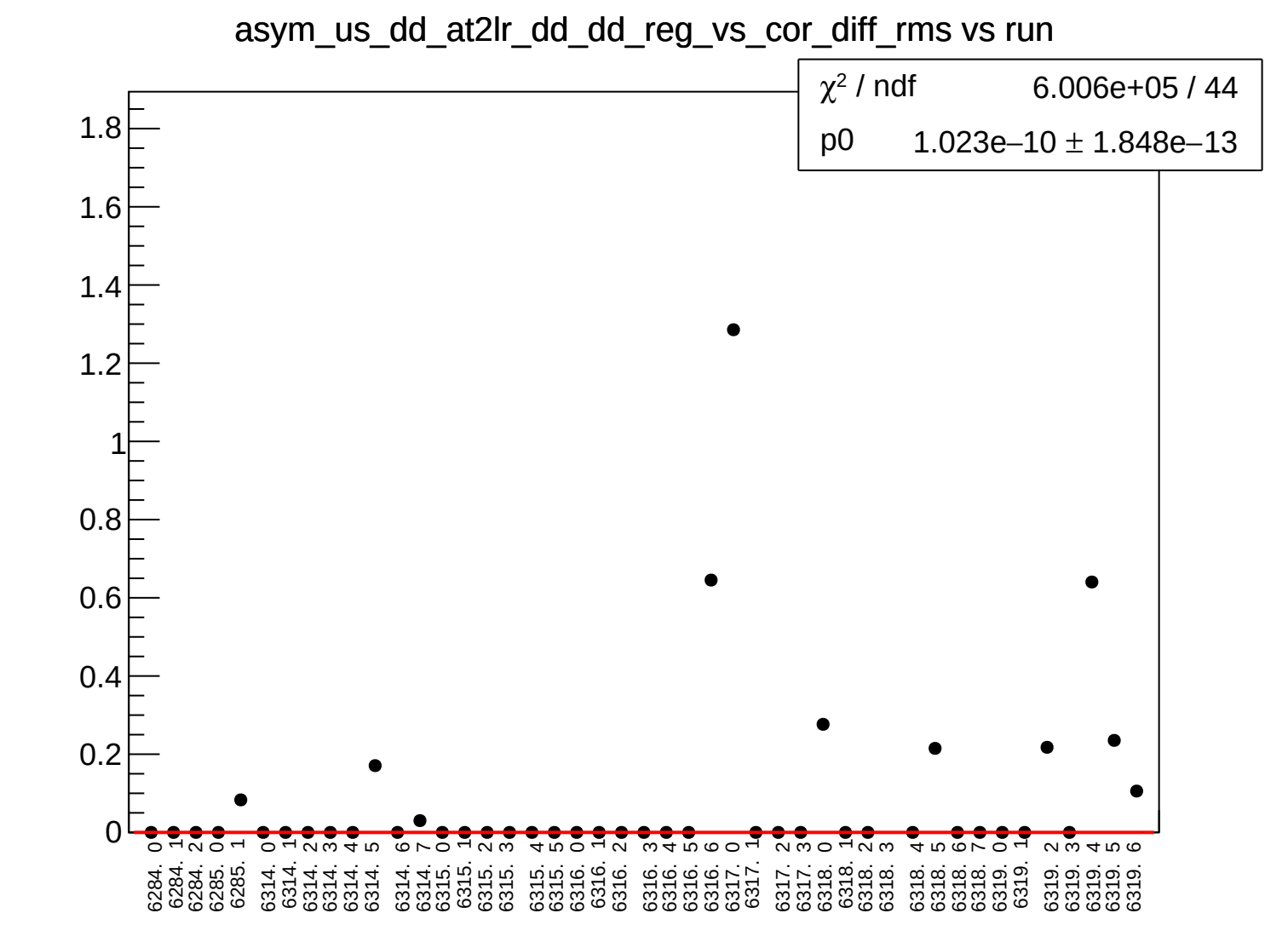
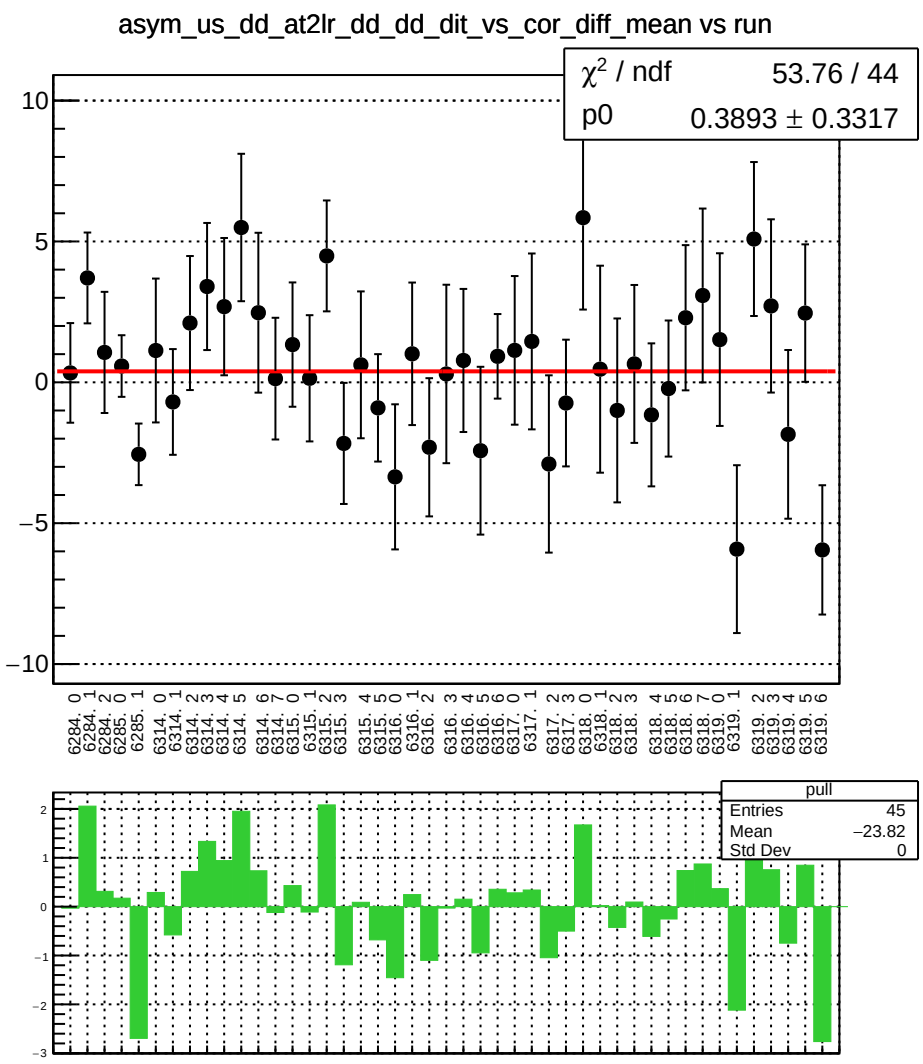
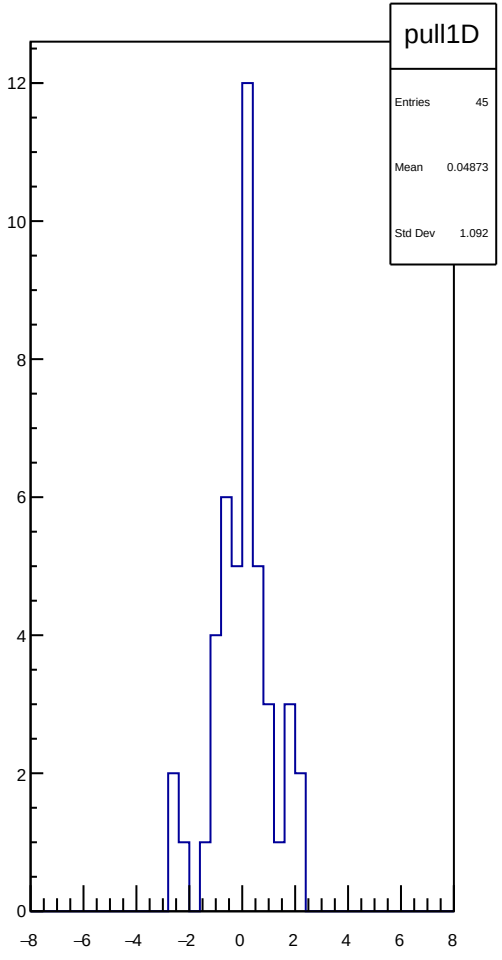
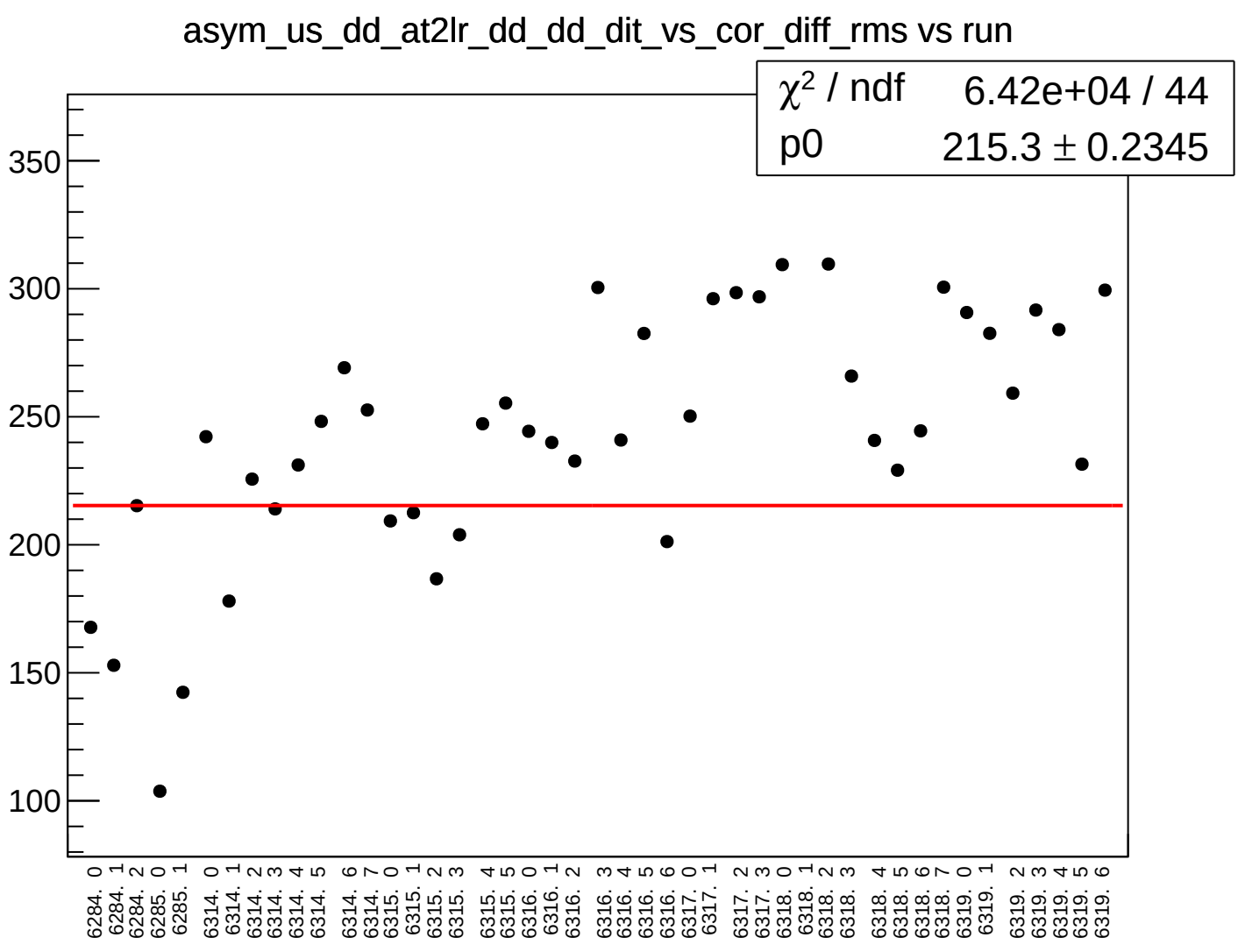
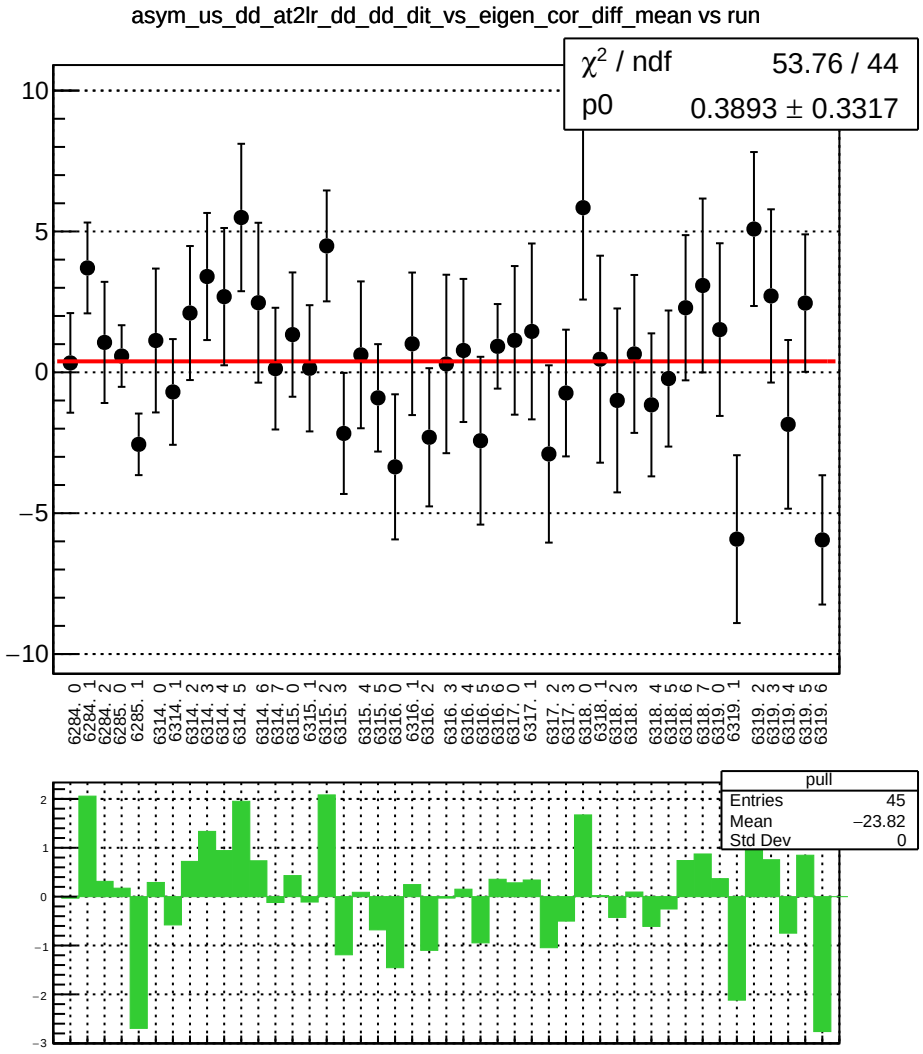
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.35
Std Dev 28.55
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04716
Std Dev 0.7455
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

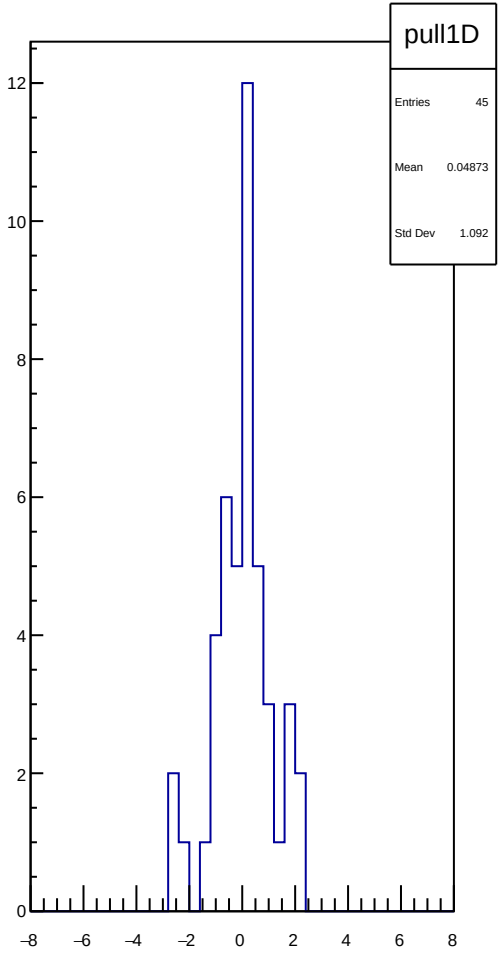

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.006e+05 / 44
p0 1.023e−10 ± 1.848e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

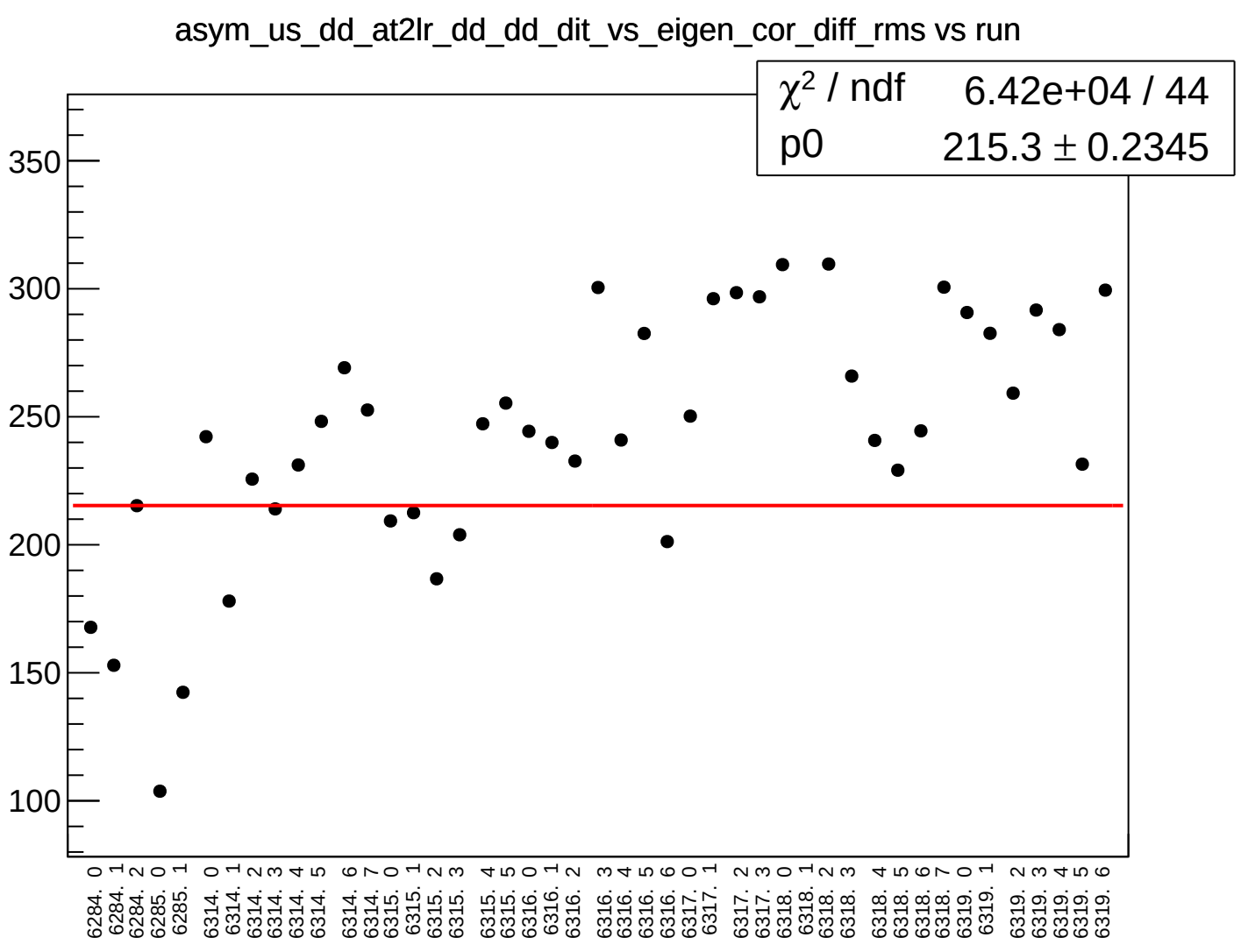

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.76 / 44
p0 0.3893 ± 0.3317
pull
Entries 45
Mean −23.82
Std Dev 0

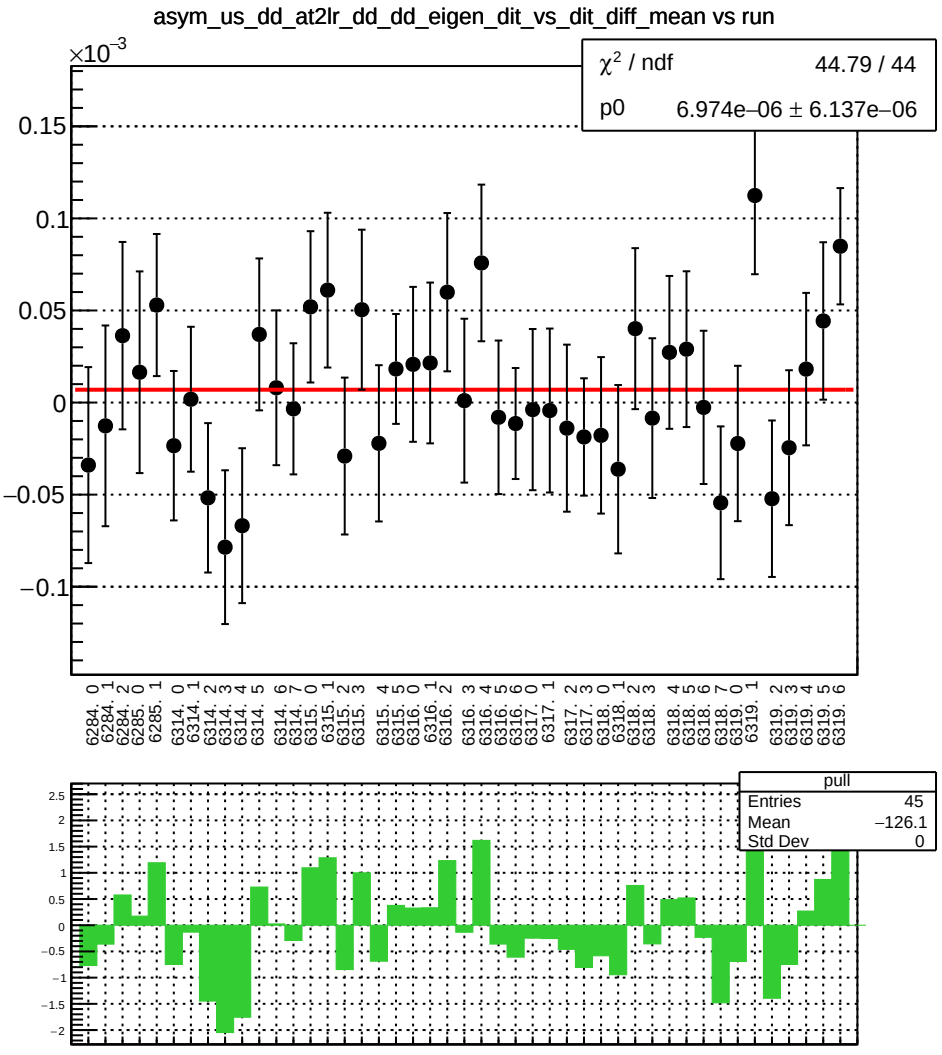

pull1D
Entries 45
Mean 0.04873
Std Dev 1.092

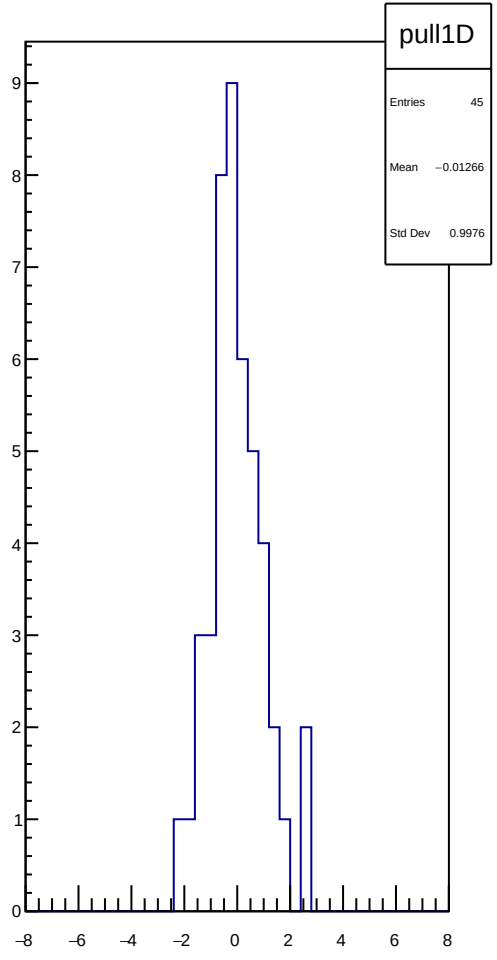

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 44
p0 215.3 ± 0.2345
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

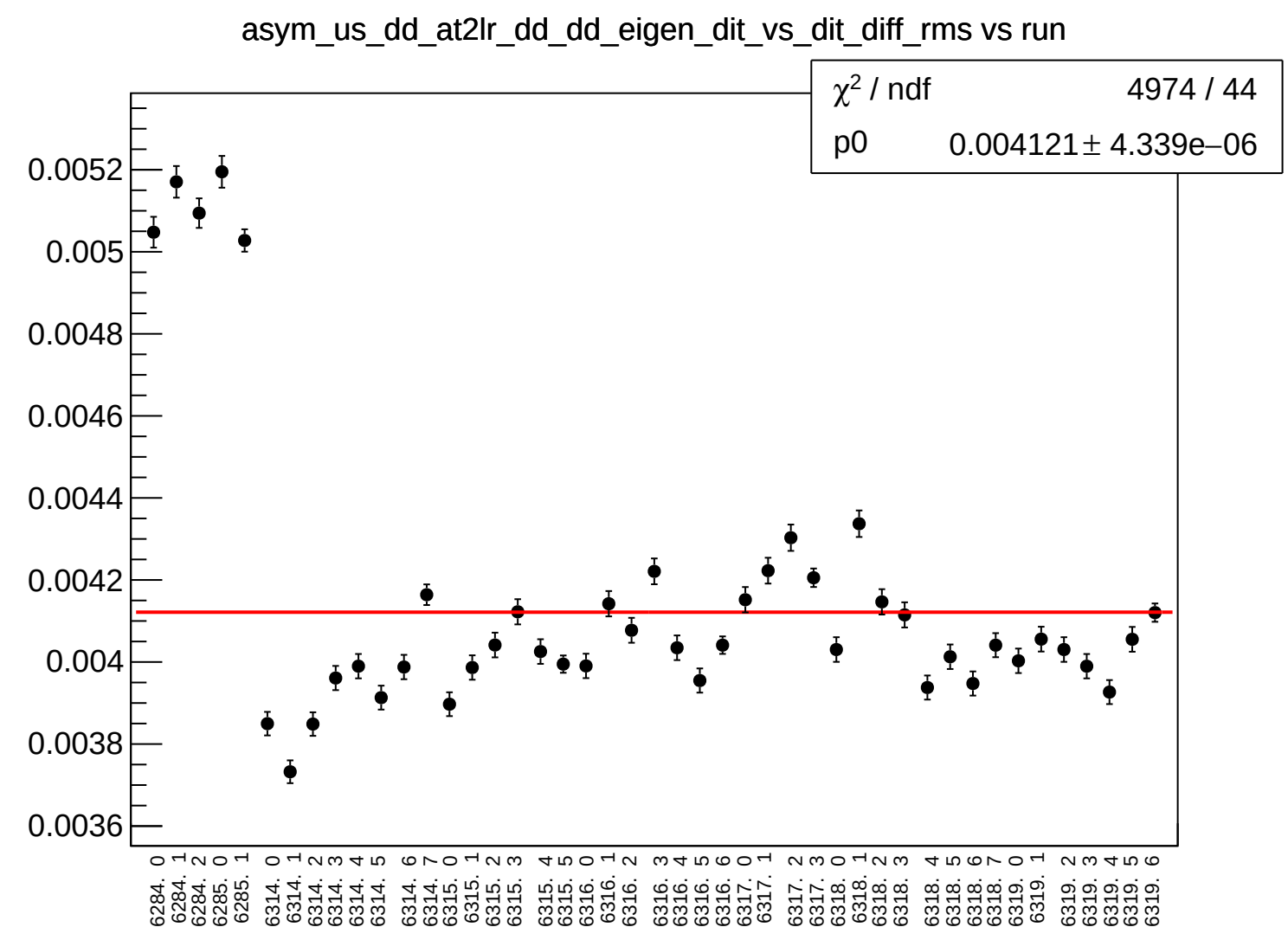

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.76 / 44
p0 0.3893 ± 0.3317
pull
Entries 45
Mean −23.82
Std Dev 0

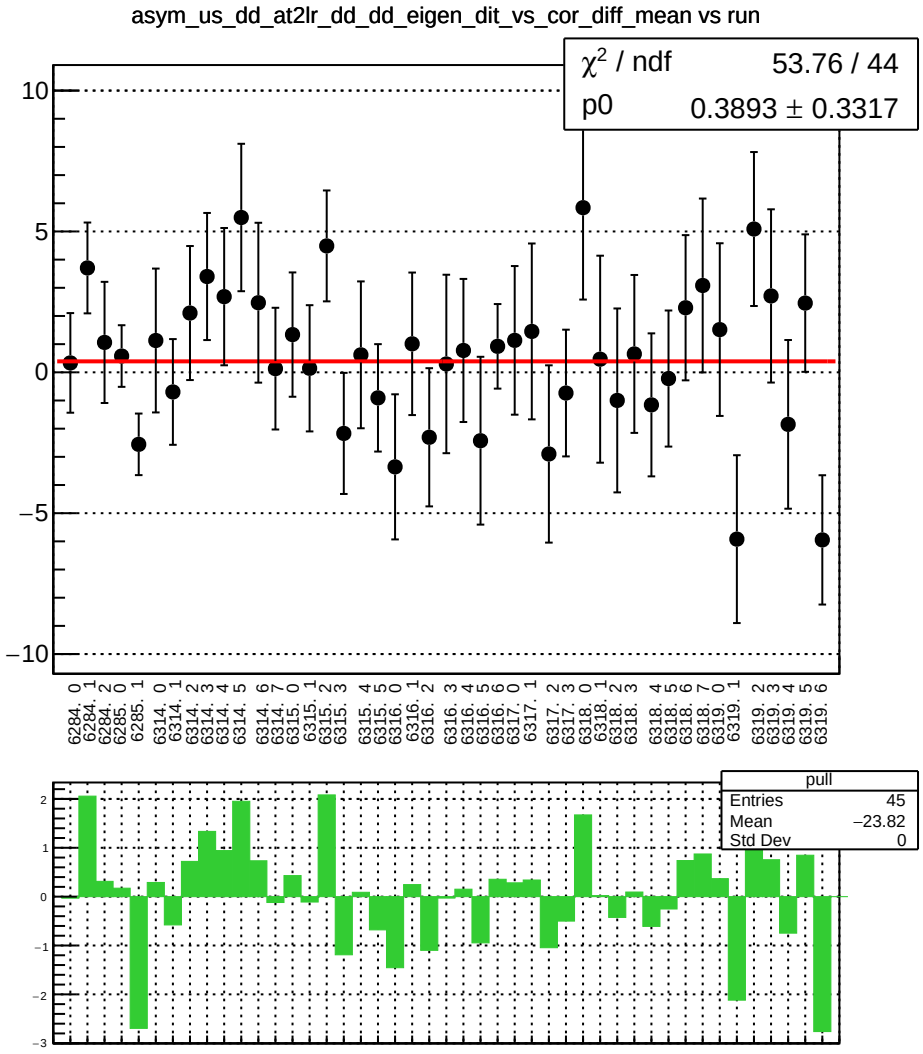

pull1D
Entries 45
Mean 0.04873
Std Dev 1.092

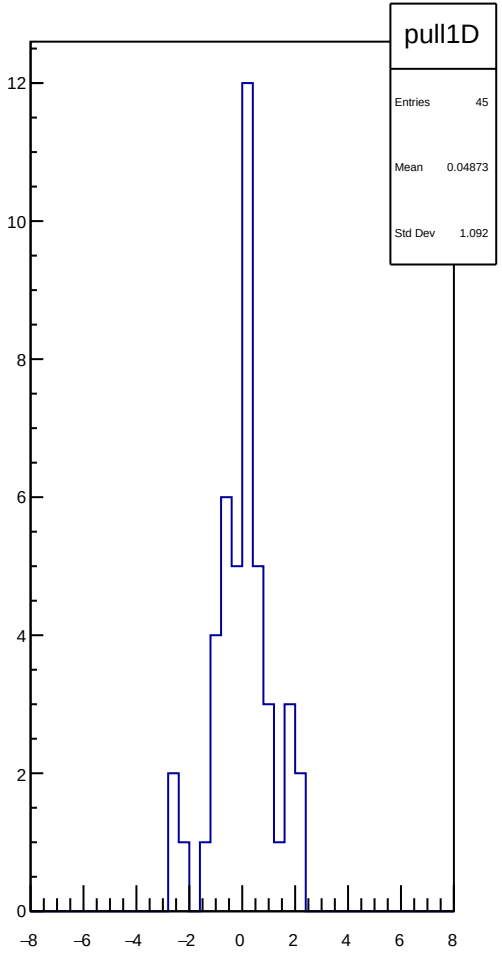

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 44
p0 215.3 ± 0.2345
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

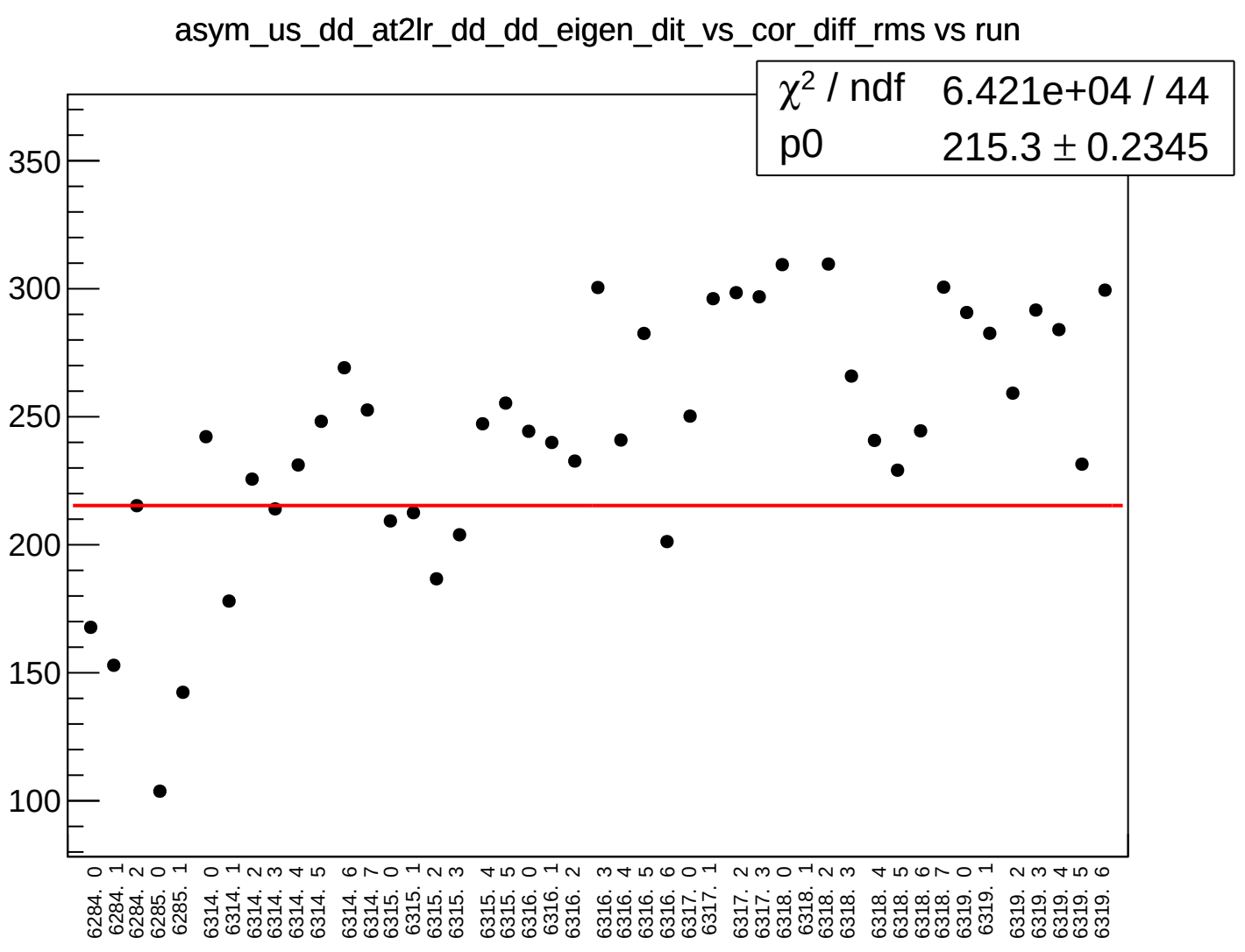

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.79 / 44
p0 6.974e−06 ± 6.137e−06
0.15
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −126.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

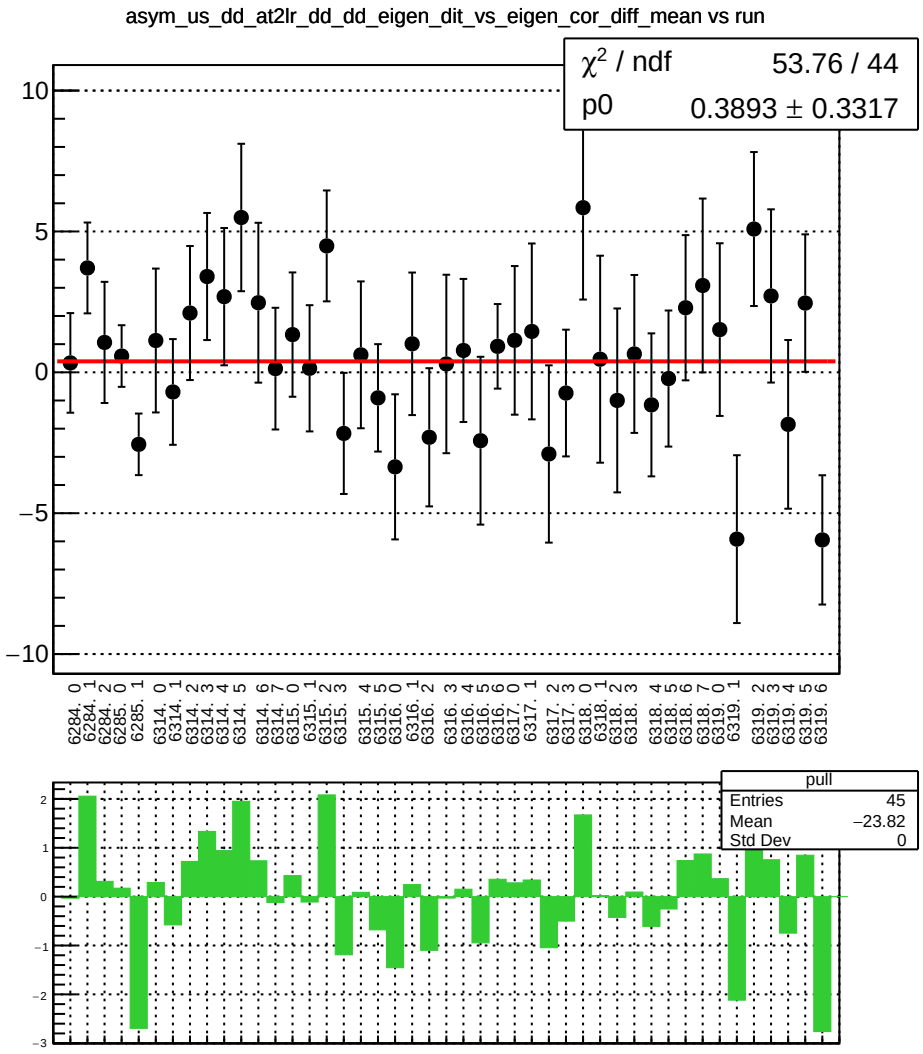

pull1D
Entries 45
Mean −0.01266
Std Dev 0.9976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

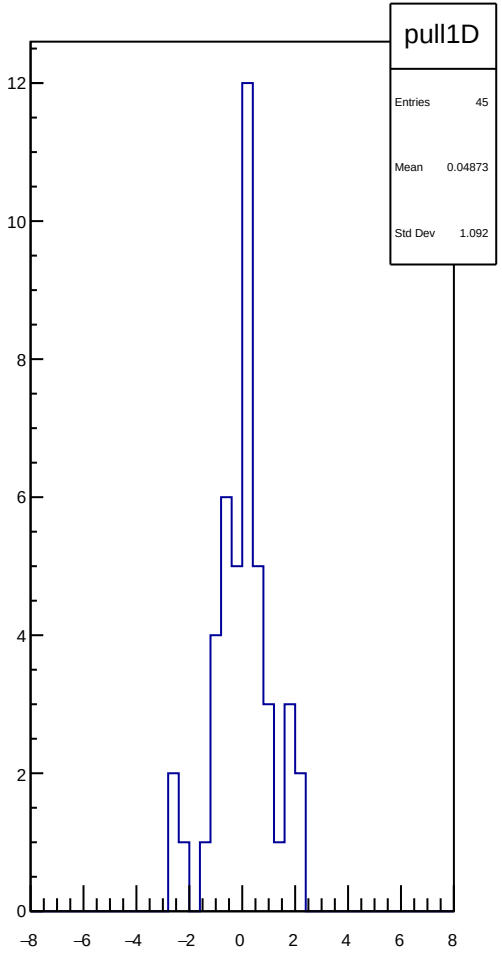

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4974 / 44
p0 0.004121 ± 4.339e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

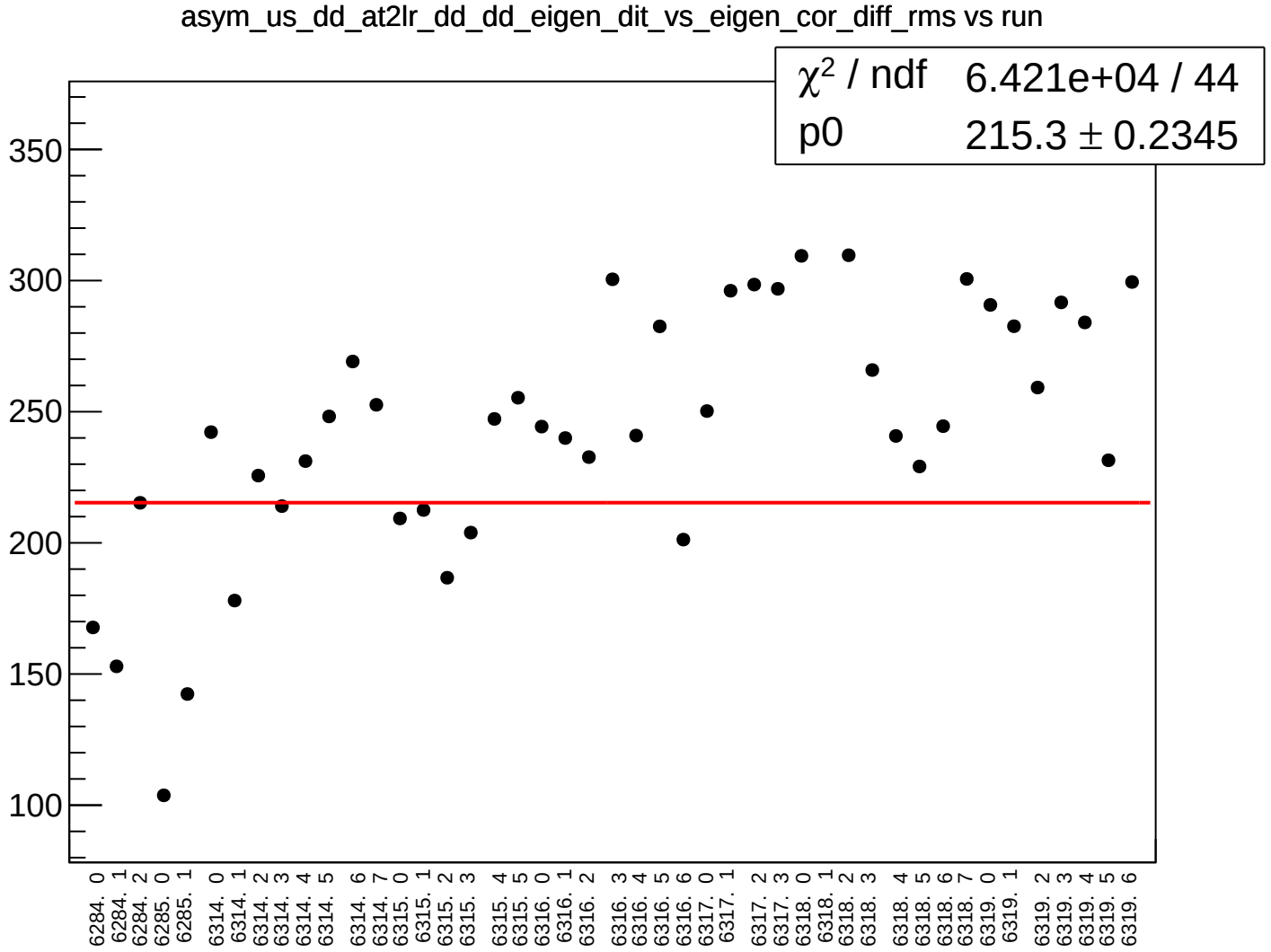

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.76 / 44
p0 0.3893 ± 0.3317
pull
Entries 45
Mean −23.82
Std Dev 0

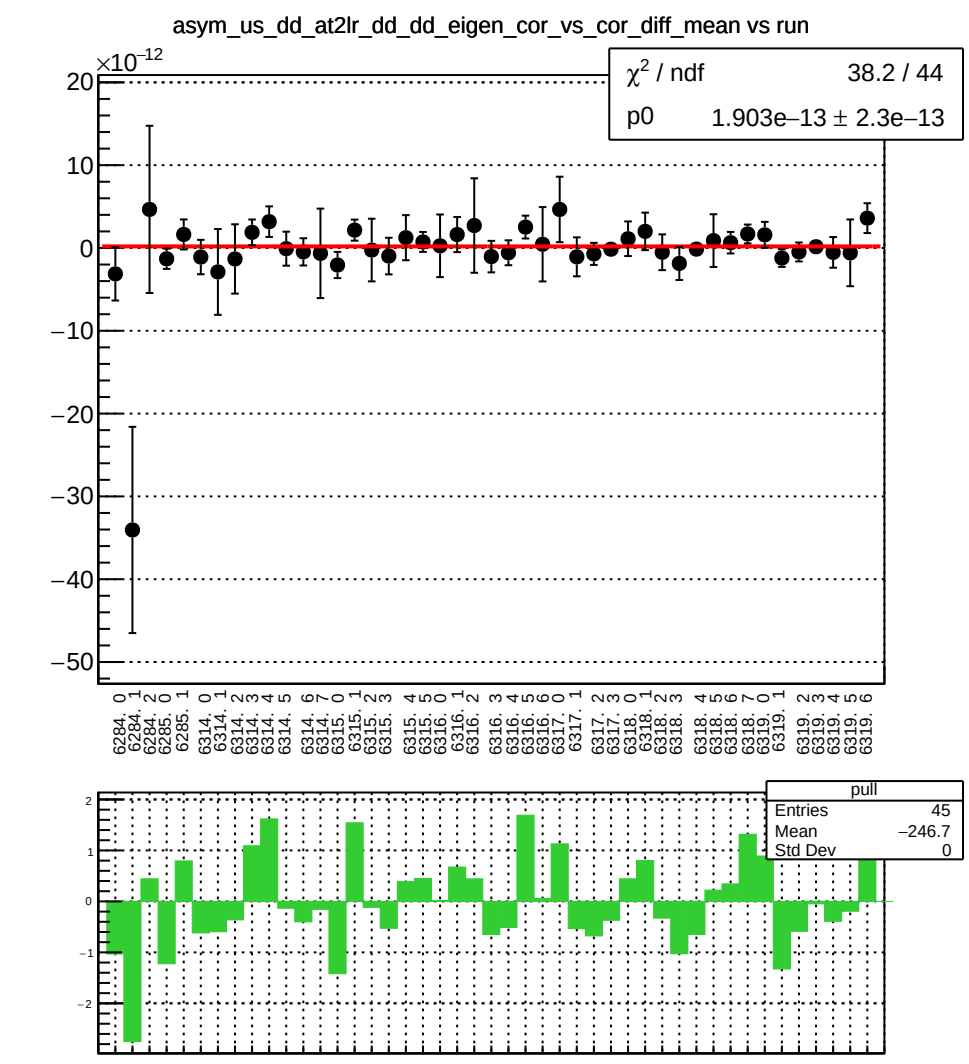

pull1D
Entries 45
Mean 0.04873
Std Dev 1.092

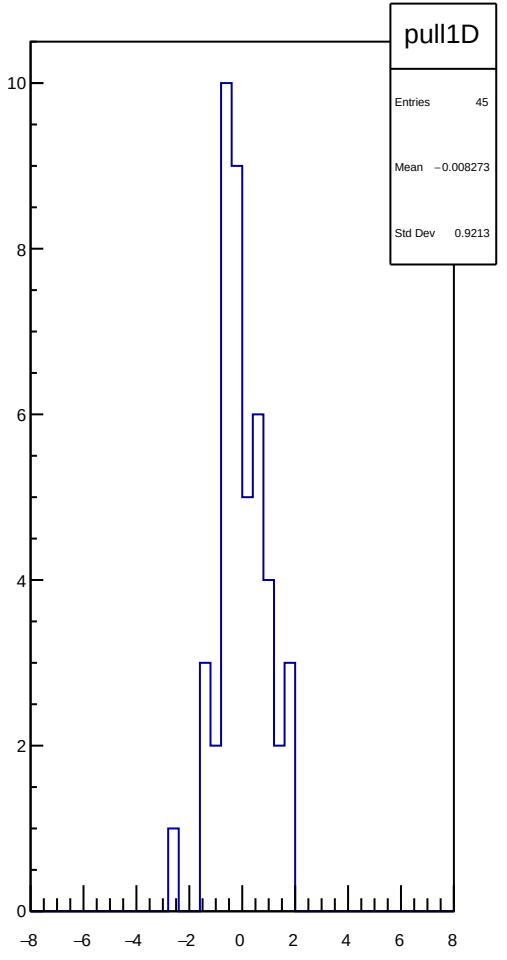

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.421e+04 / 44
p0 215.3 ± 0.2345
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

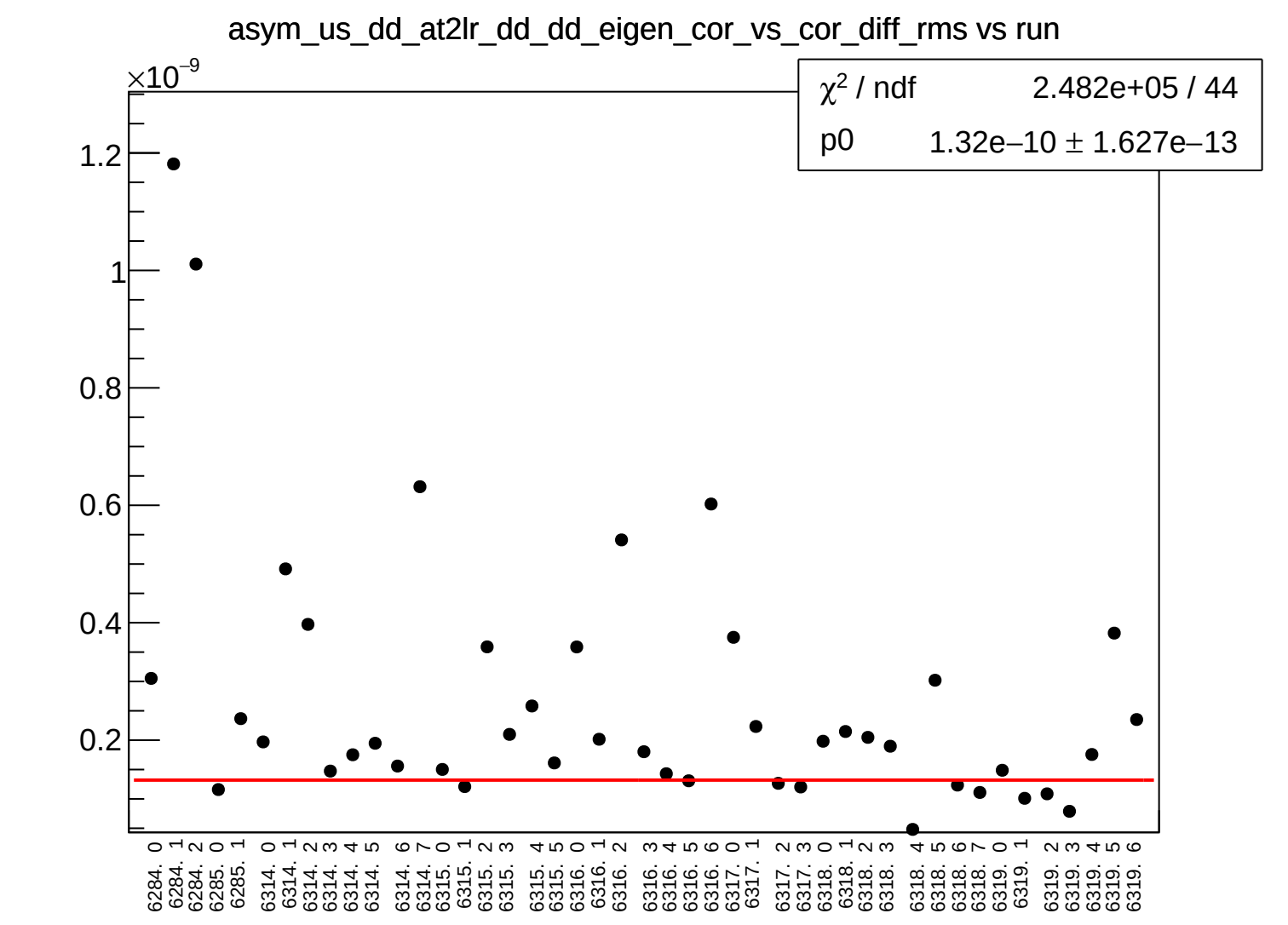

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.76 / 44
p0 0.3893 ± 0.3317
pull
Entries 45
Mean −23.82
Std Dev 0

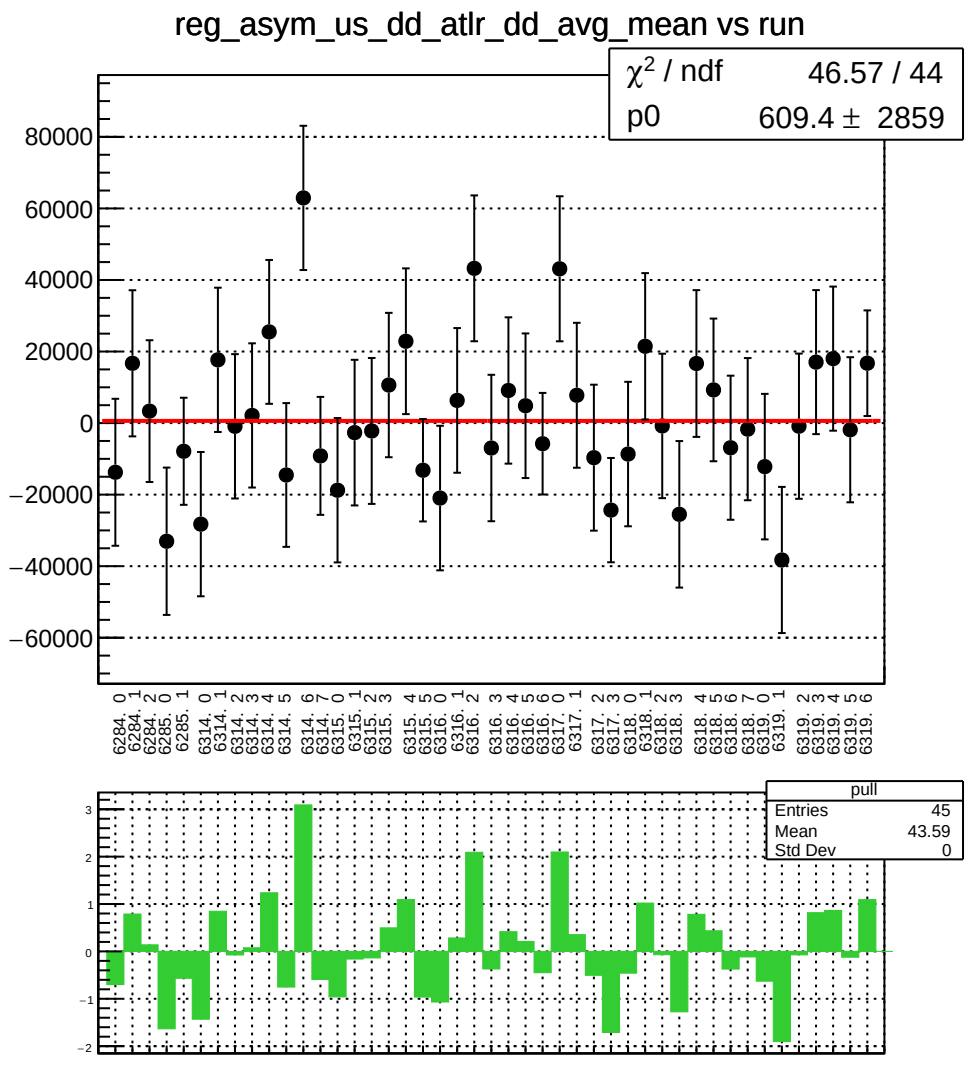

pull1D
Entries 45
Mean 0.04873
Std Dev 1.092

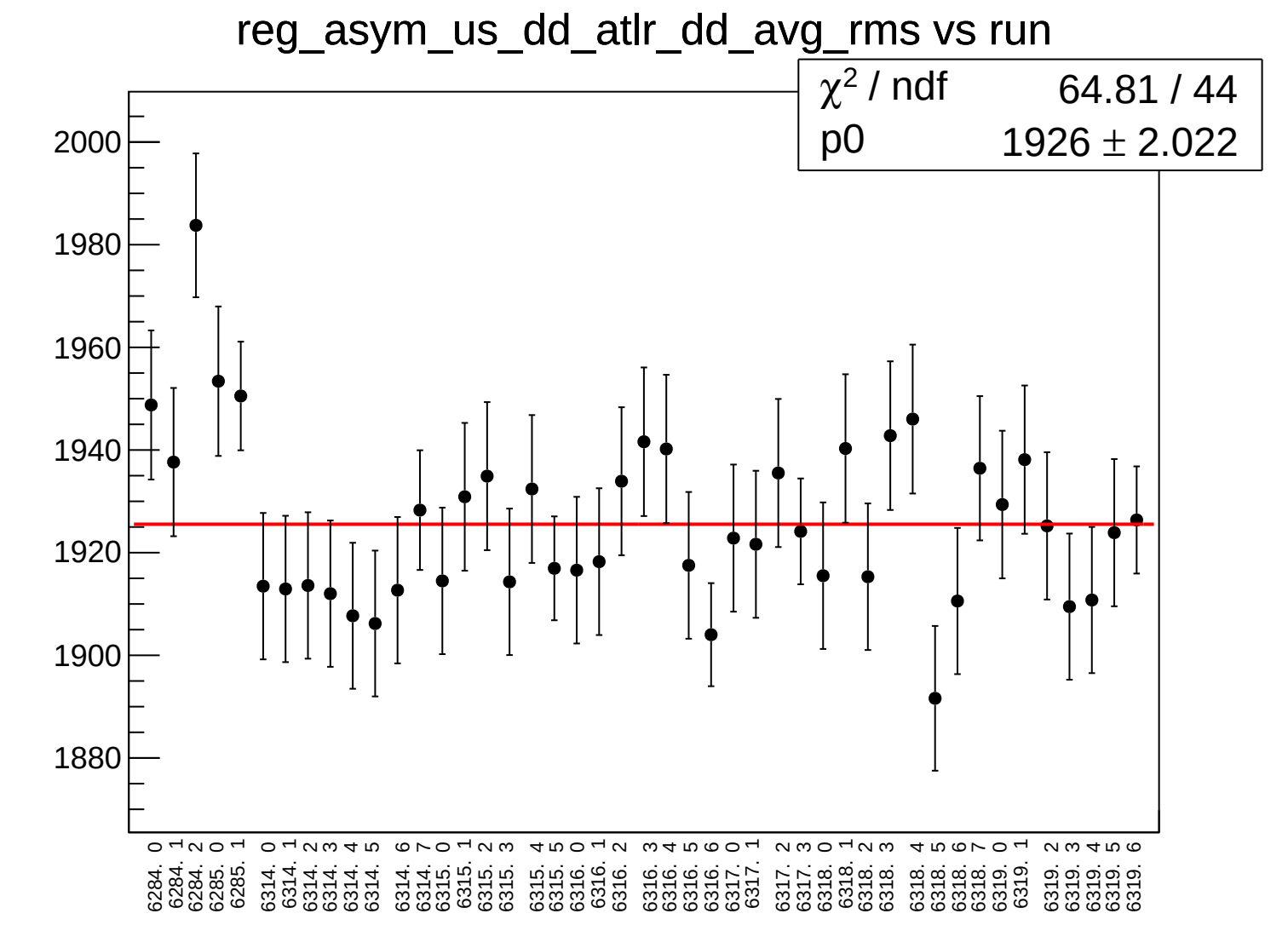

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.421e+04 / 44
p0 215.3 ± 0.2345
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

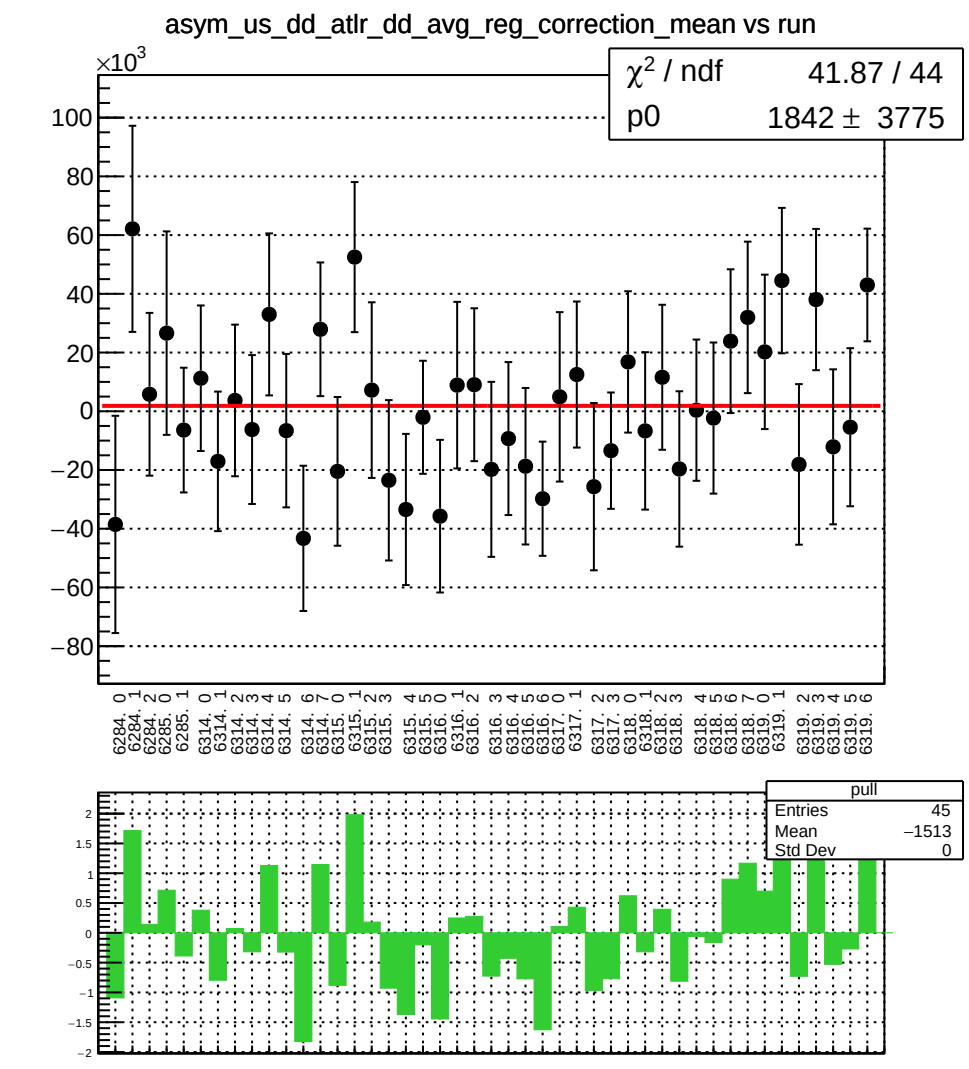

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.2 / 44
p0 1.903e−13 ± 2.3e−13
pull
Entries 45
Mean −246.7
Std Dev 0

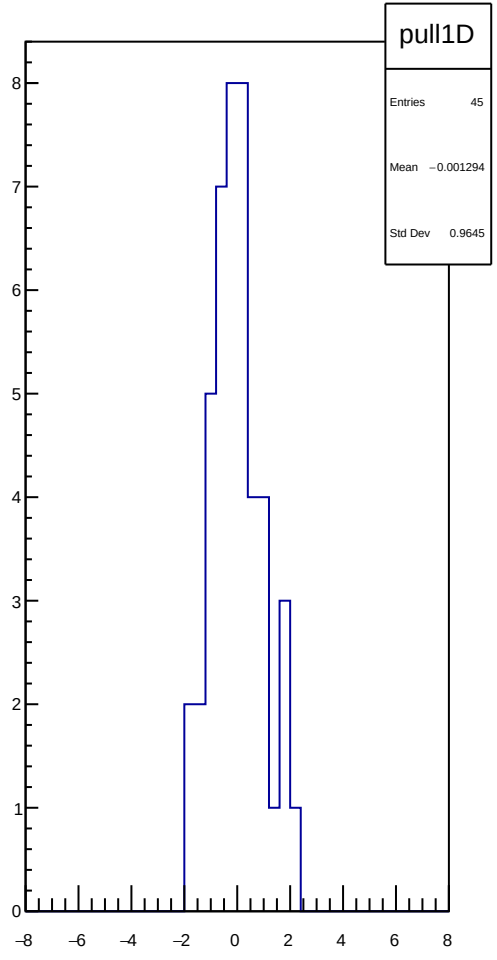

pull1D
Entries 45
Mean −0.008273
Std Dev 0.9213


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.482e+05 / 44
p0 1.32e−10 ± 1.627e−13
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 46.57 / 44
p0 609.4 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0252
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 64.81 / 44
p0 1926 ± 2.022
2000
1980
1960
1940
1920
1900
1880
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 41.87 / 44
p0 1842 ± 3775
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1513
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001294
Std Dev 0.9645
8
7
6
5
4
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−4
−2
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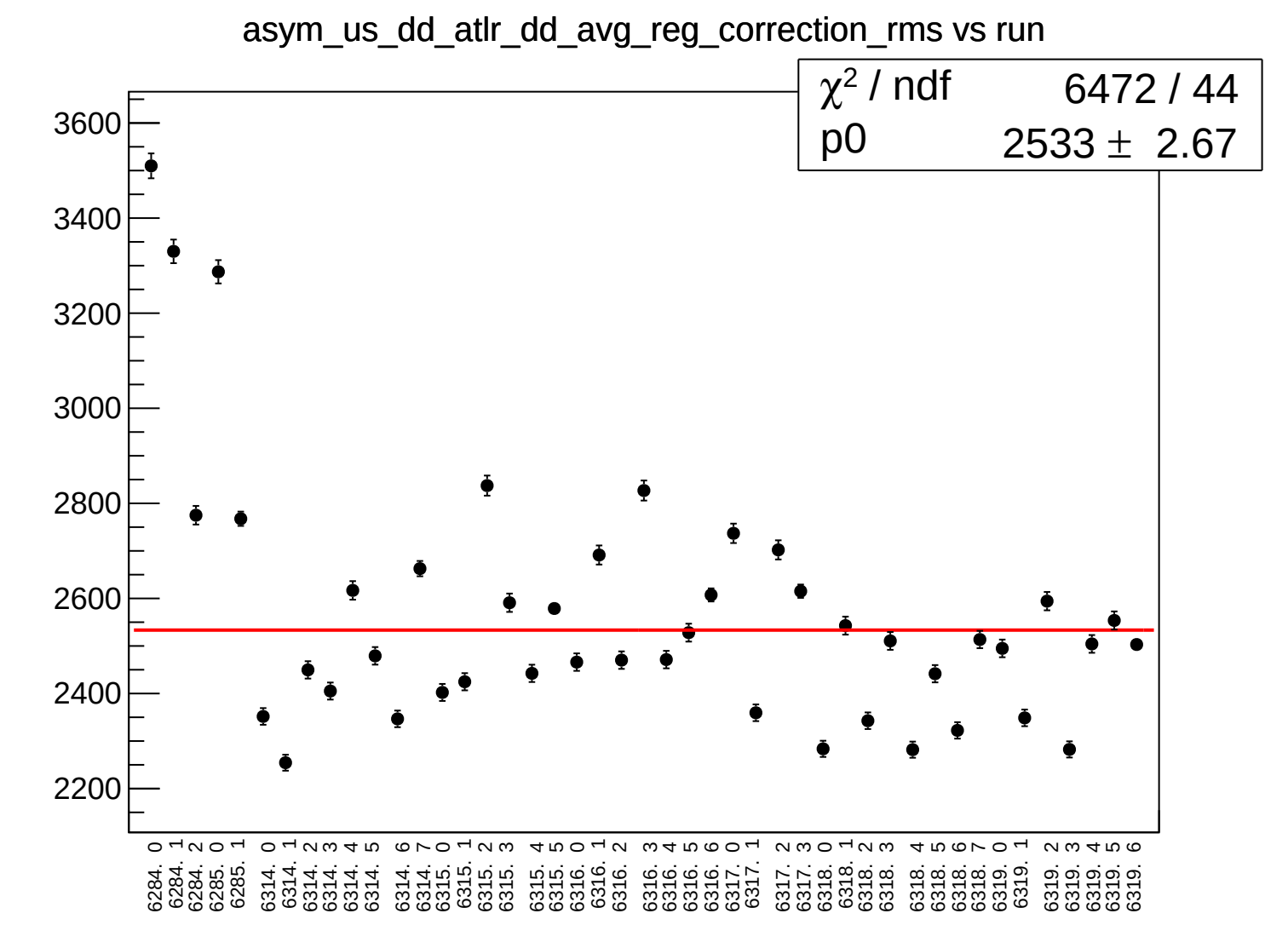
asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 6472 / 44
p0 2533 ± 2.67
3600
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 7
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6316. 0
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6316. 2
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6316. 6
6317. 0
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6317. 2
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6318. 4
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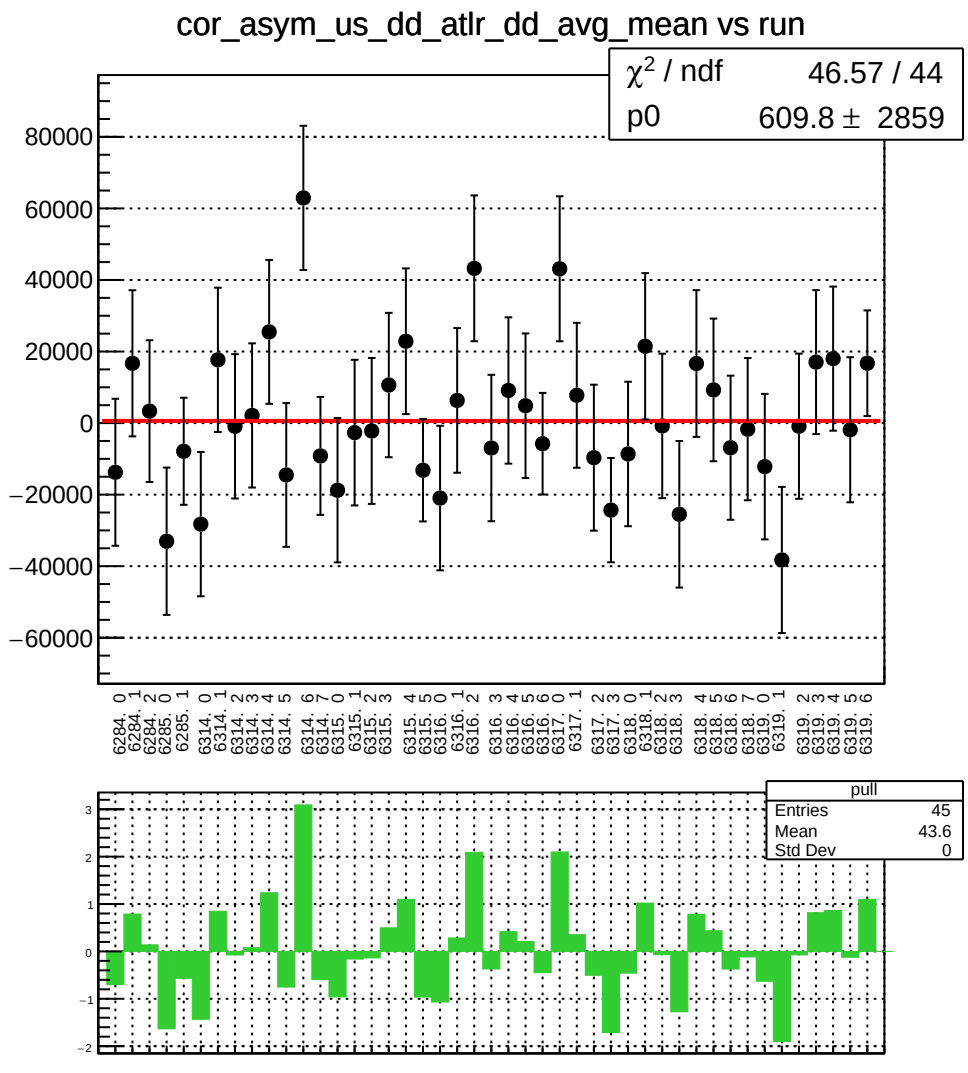
cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 46.57 / 44
p0 609.8 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
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6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6316. 2
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6316. 5
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6318. 0
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02521
Std Dev 1.017
9
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5
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3
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1
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−4
−2
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2
4
6
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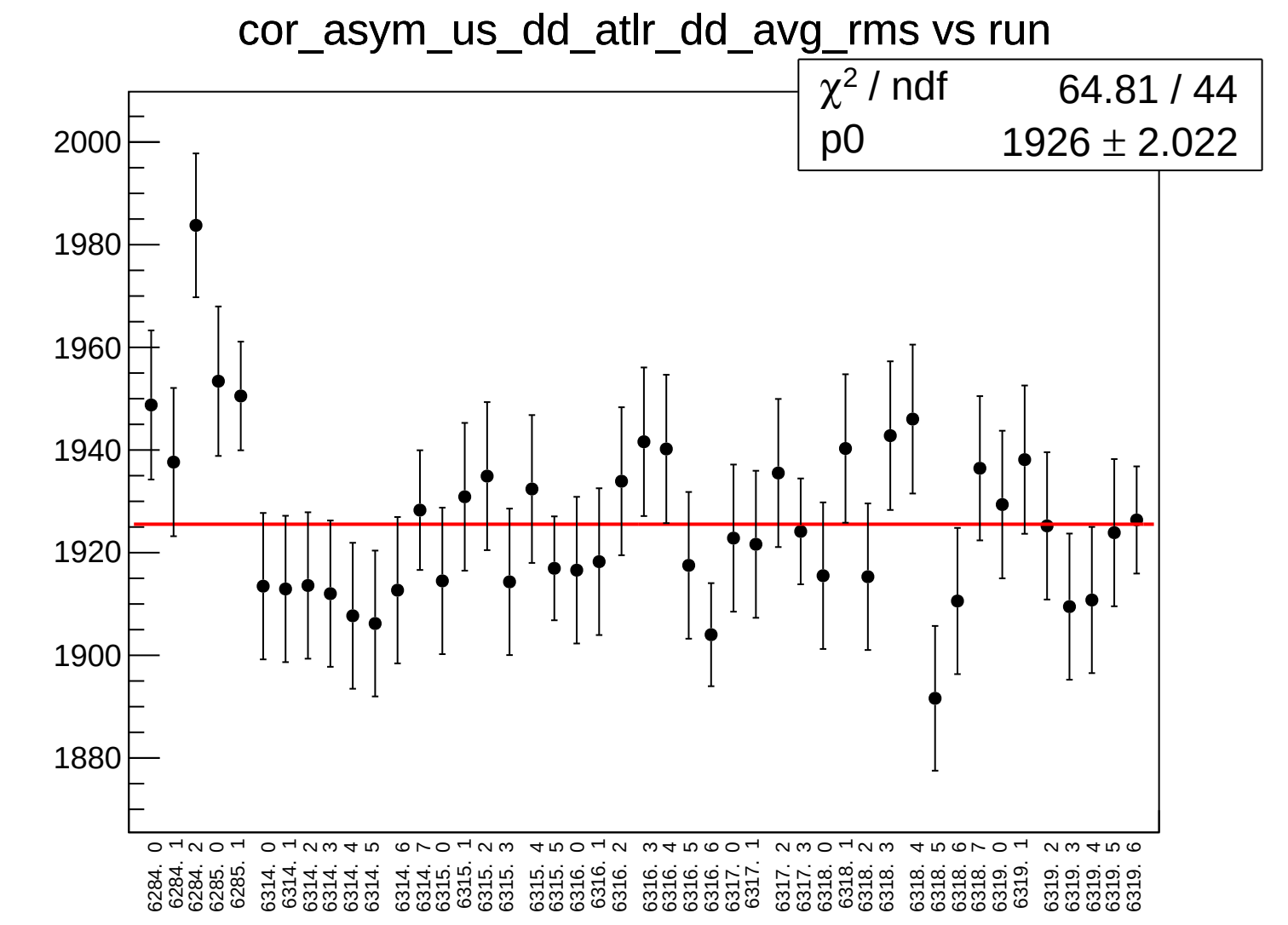
cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 64.81 / 44
p0 1926 ± 2.022
2000
1980
1960
1940
1920
1900
1880
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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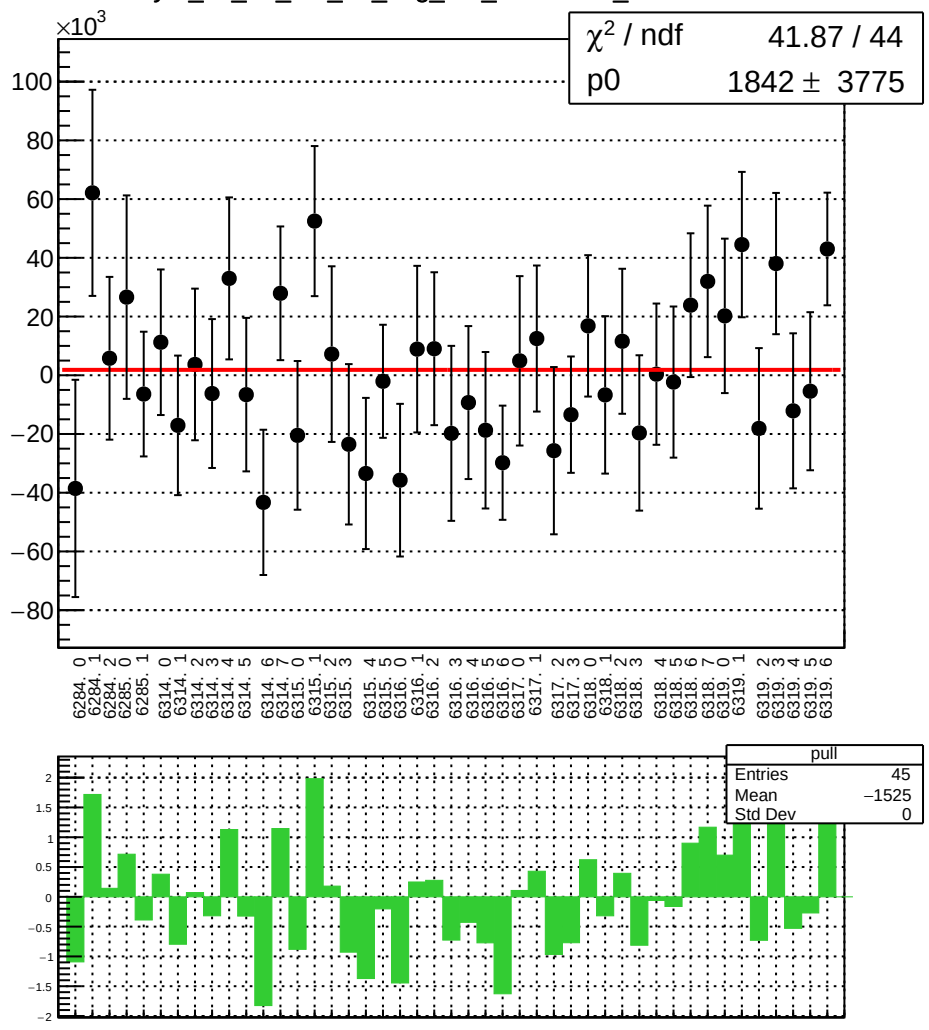
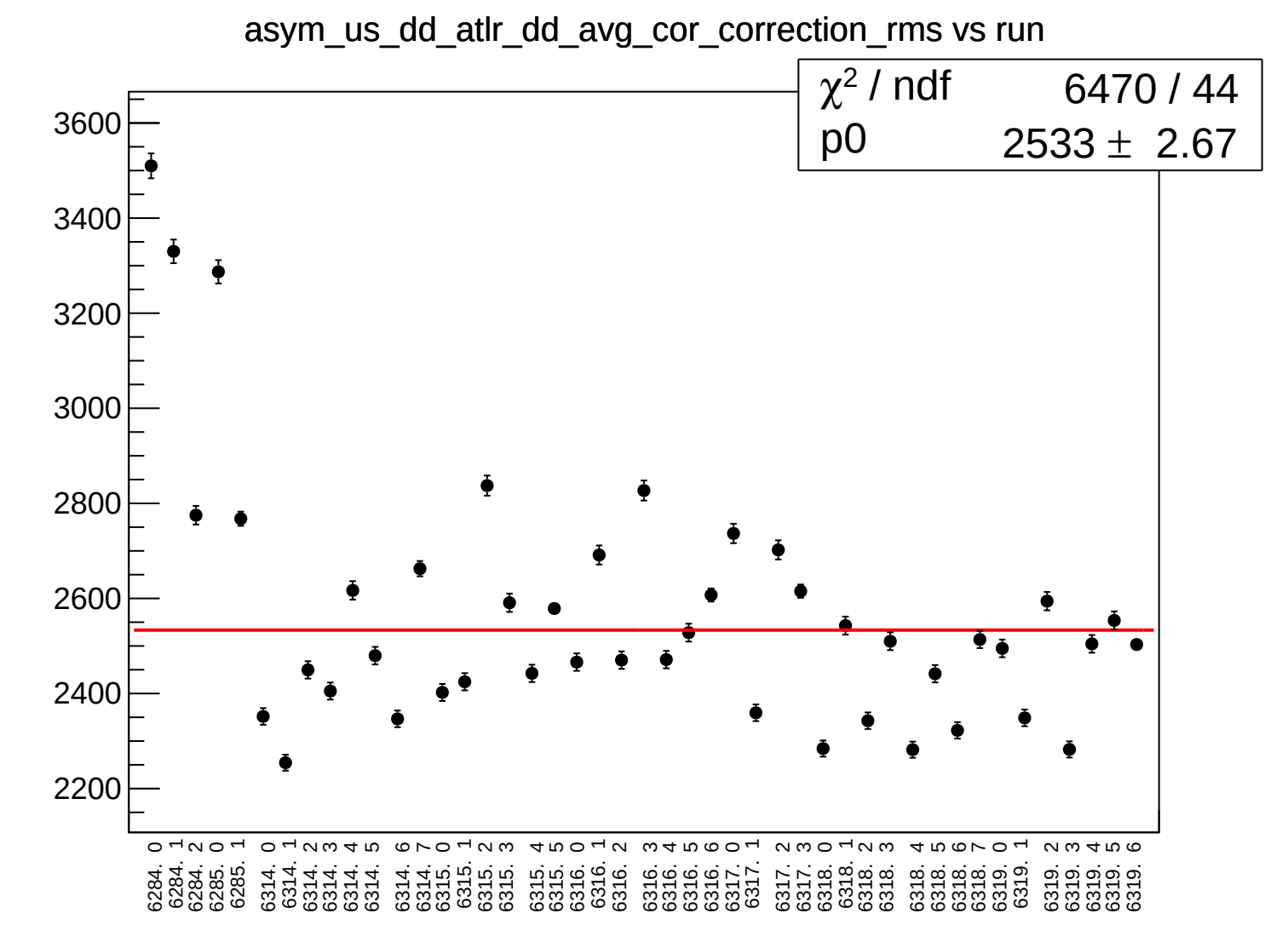

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.87 / 44
p0 1842 ± 3775
pull
Entries 45
Mean −1525
Std Dev 0
pull1D
Entries 45
Mean −0.001285
Std Dev 0.9646


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 6470 / 44
p0 2533 ± 2.67
3600
3400
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3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 7
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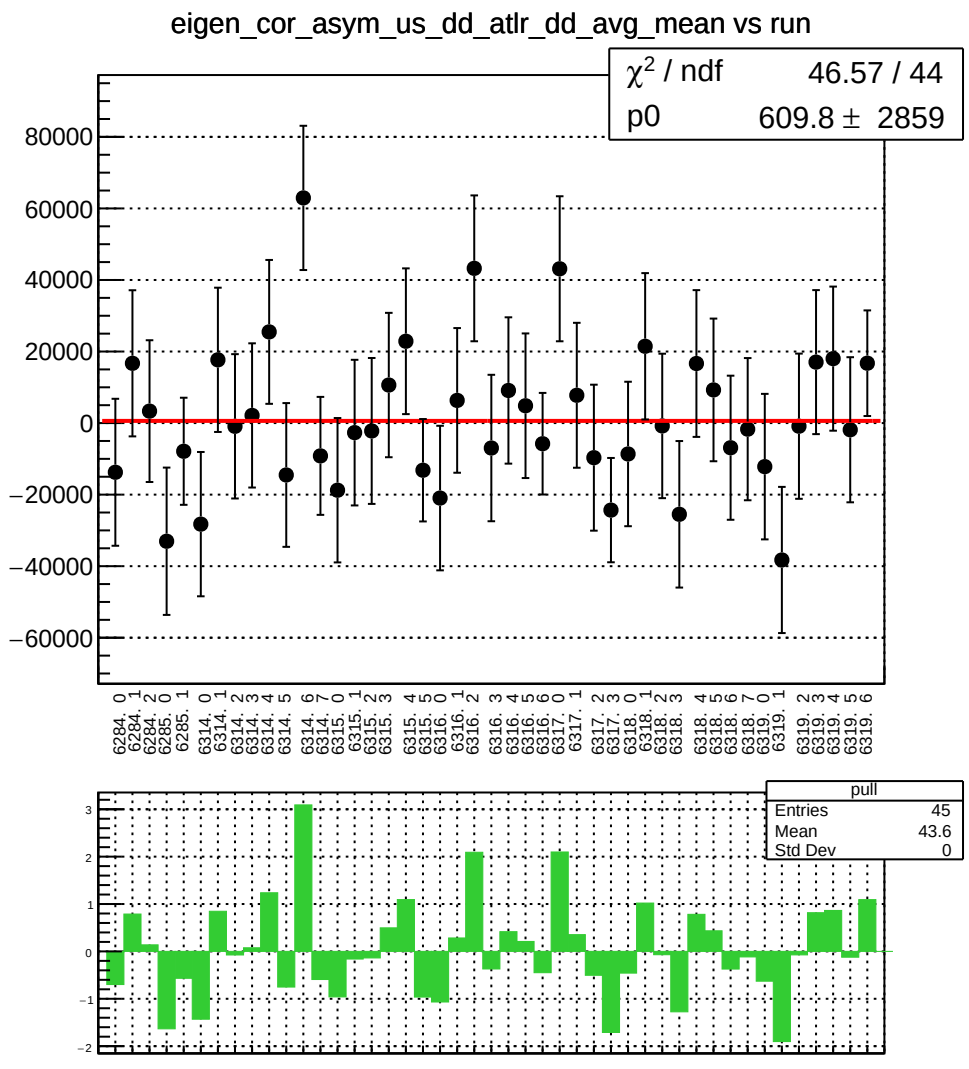
eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 46.57 / 44
p0 609.8 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6317. 0
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6317. 3
6318. 0
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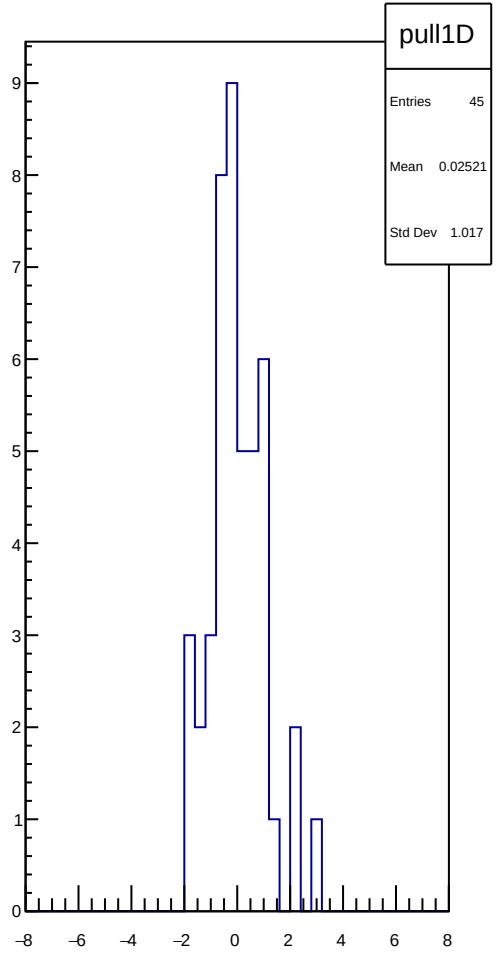
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02521
Std Dev 1.017
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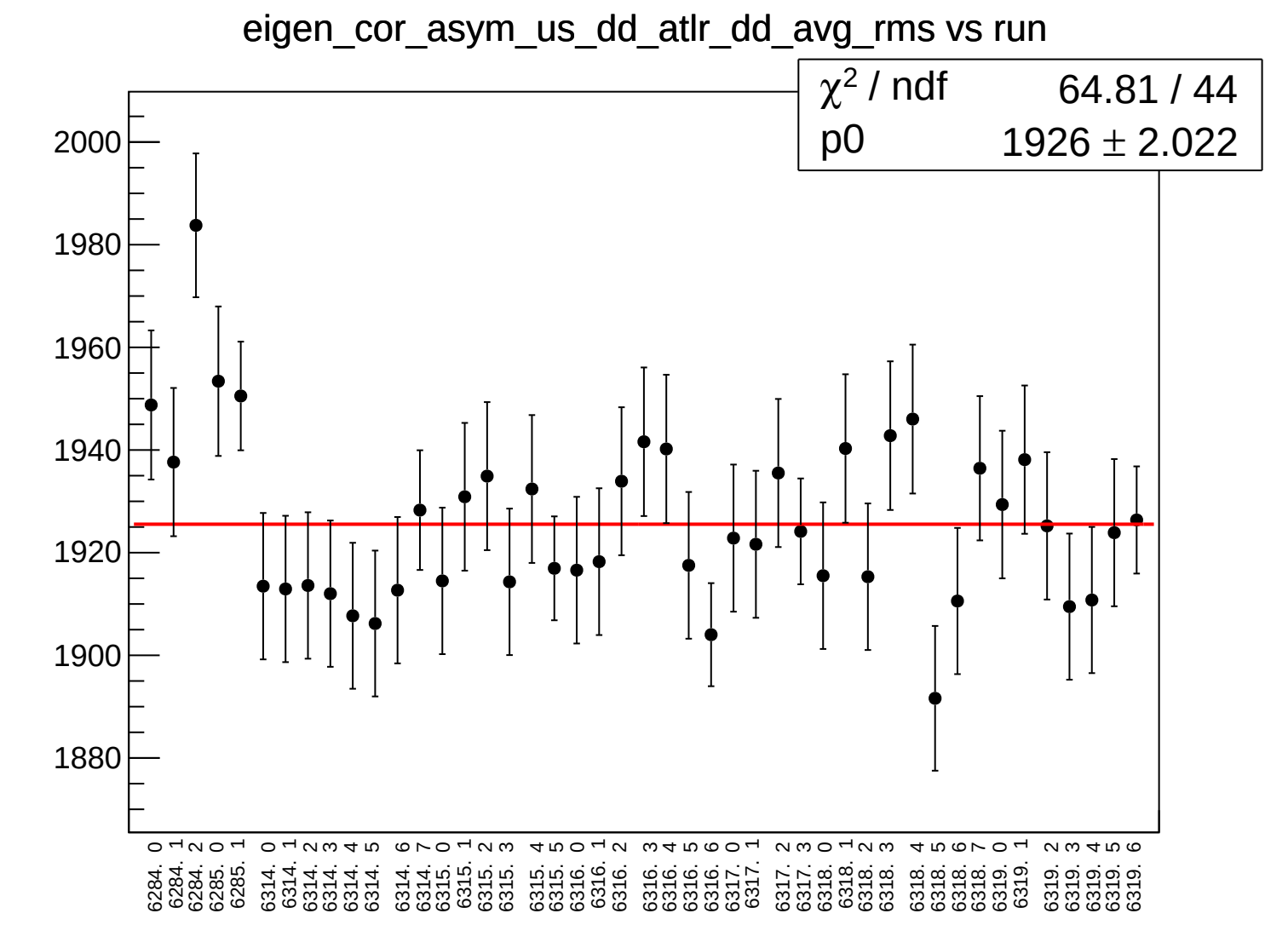
eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 64.81 / 44
p0 1926 ± 2.022
2000
1980
1960
1940
1920
1900
1880
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 6
6314. 7
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6316. 0
6316. 1
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6316. 6
6317. 0
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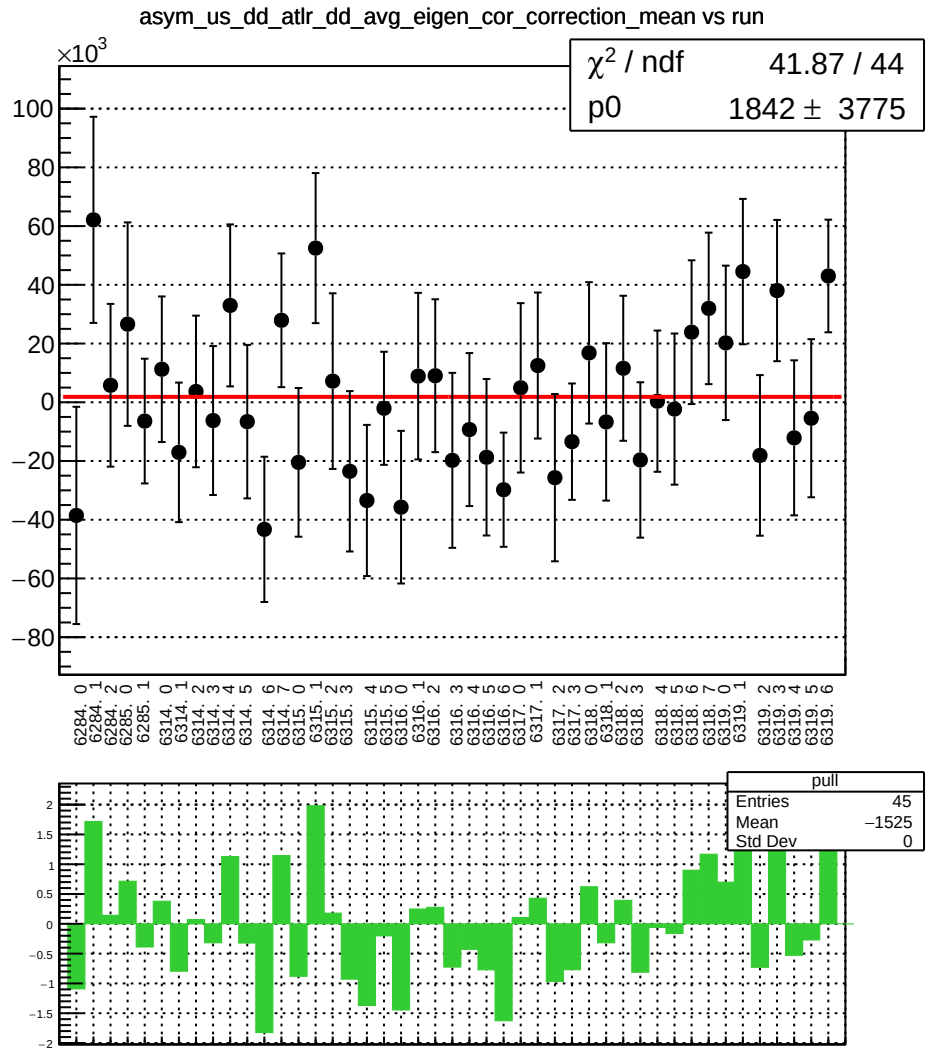
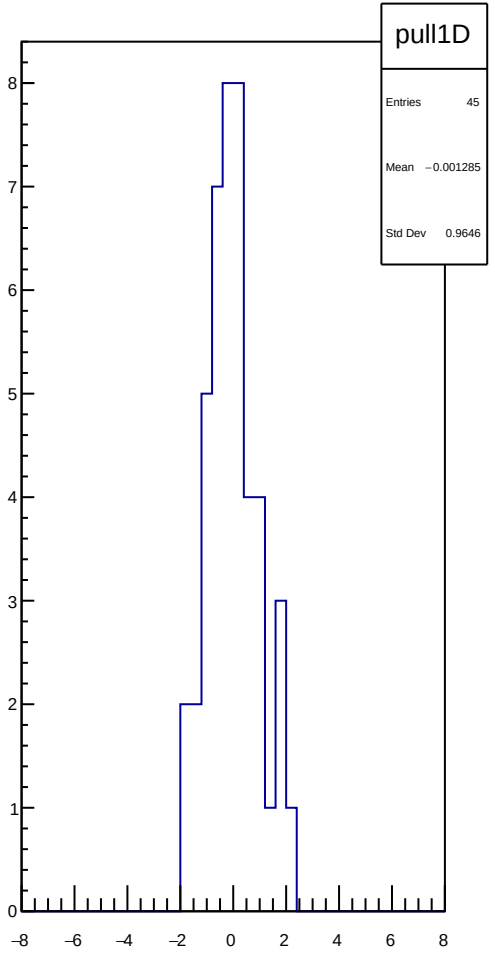
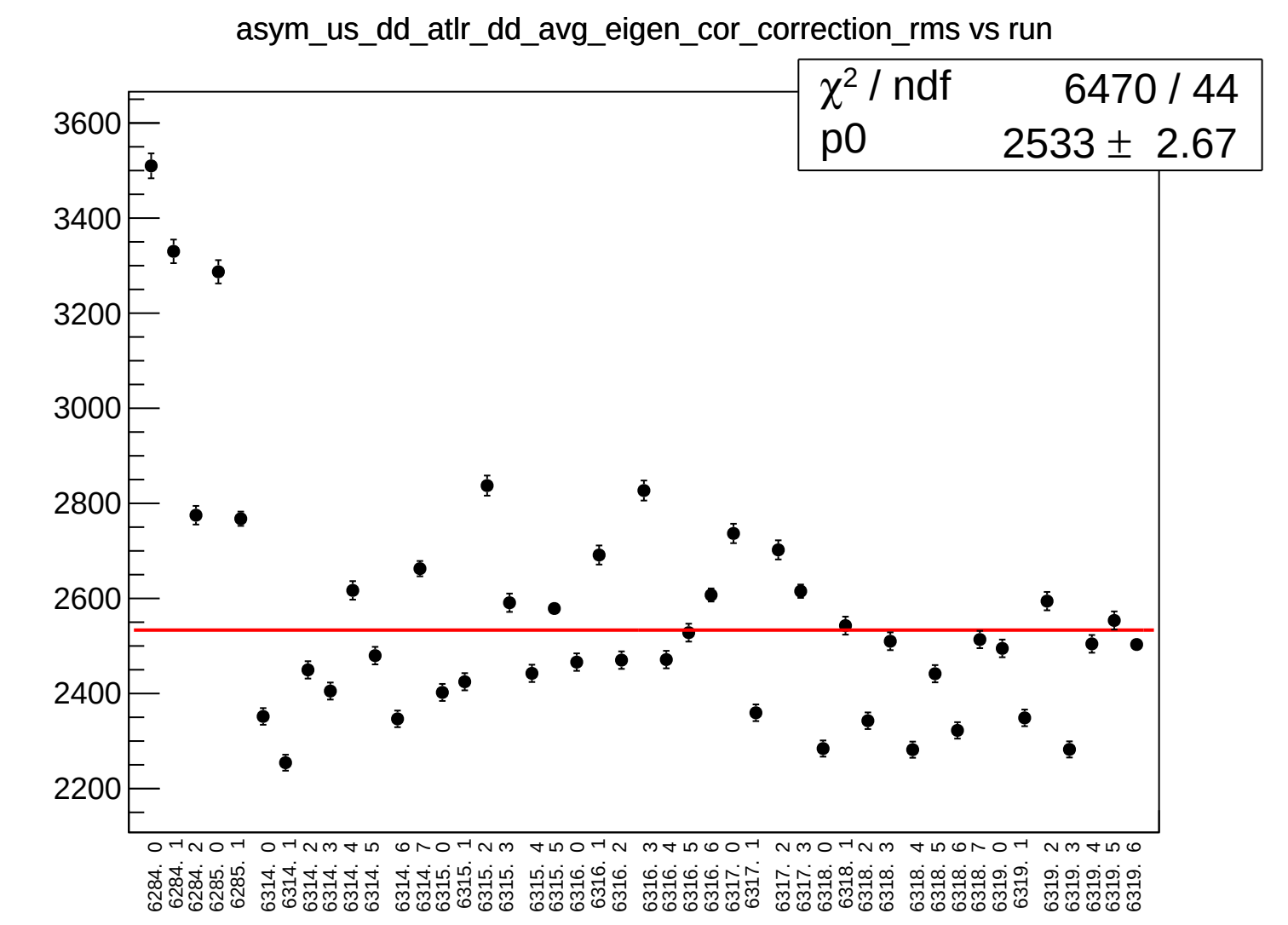

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.87 / 44
p0 1842 ± 3775
pull
Entries 45
Mean −1525
Std Dev 0


pull1D
Entries 45
Mean −0.001285
Std Dev 0.9646


asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6470 / 44
p0 2533 ± 2.67
3600
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
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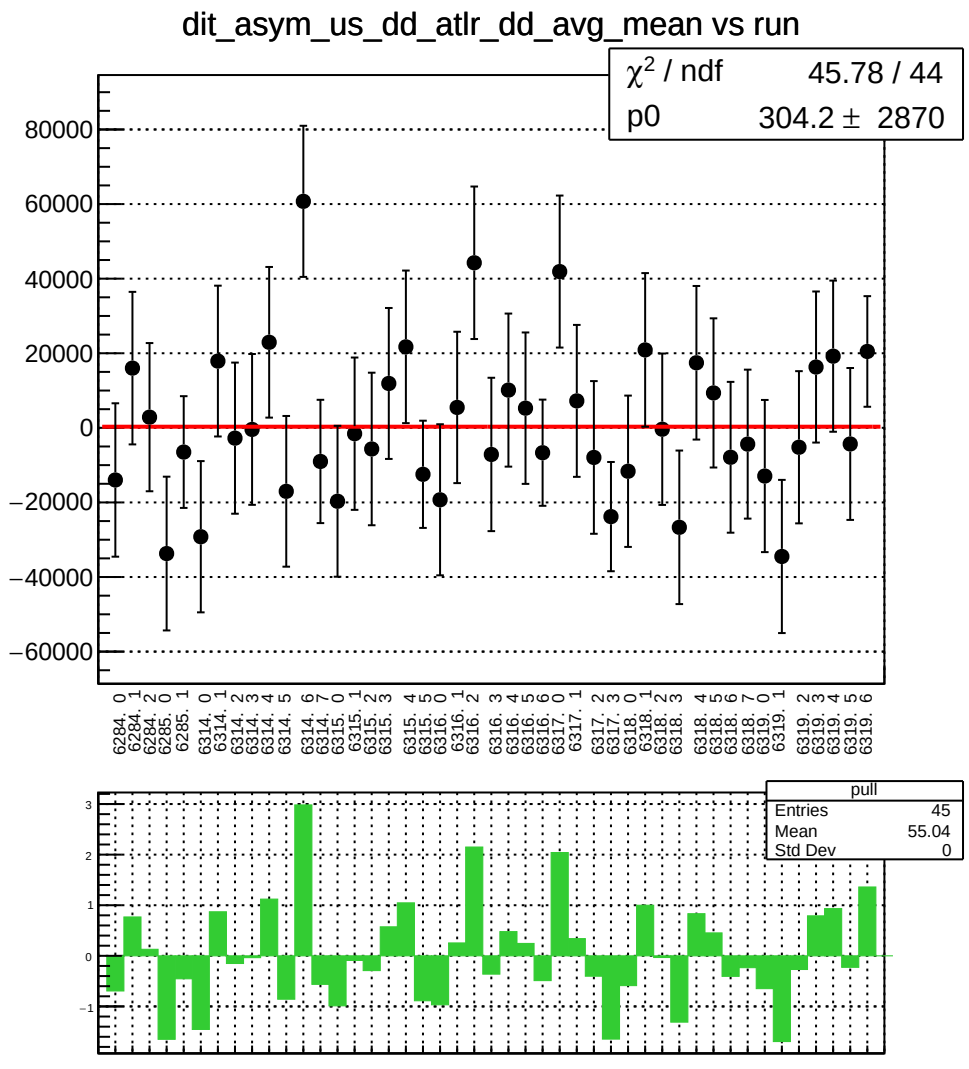
dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 45.78 / 44
p0 304.2 ± 2870
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
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6318. 7
6319. 0
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6319. 2
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6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 55.04
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean 0.02149
Std Dev 1.008
9
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5
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3
2
1
0
−8
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−4
−2
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2
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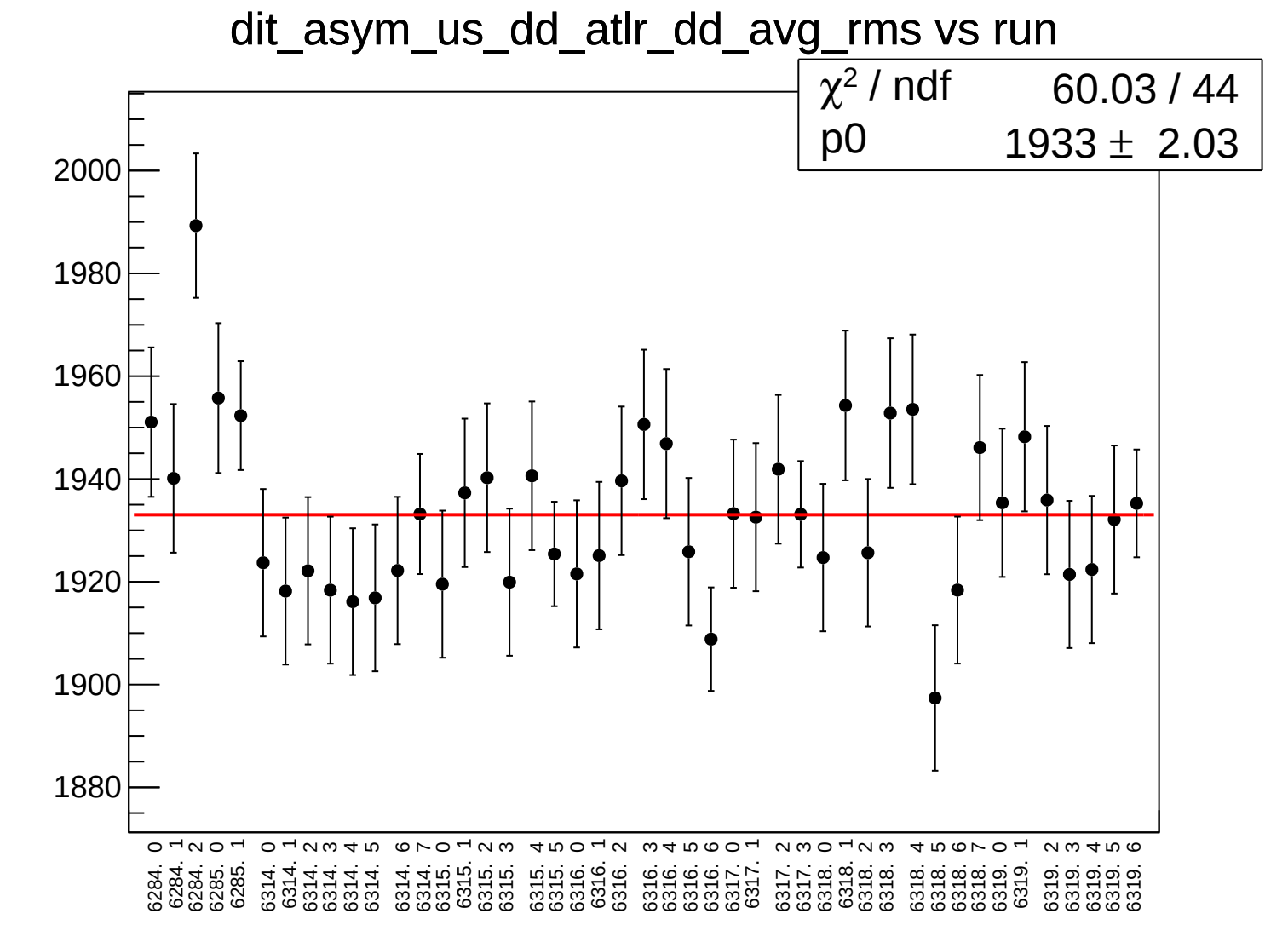
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 60.03 / 44
p0 1933 ± 2.03
2000
1980
1960
1940
1920
1900
1880
6284. 0
6284. 1
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6285. 1
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6315. 1
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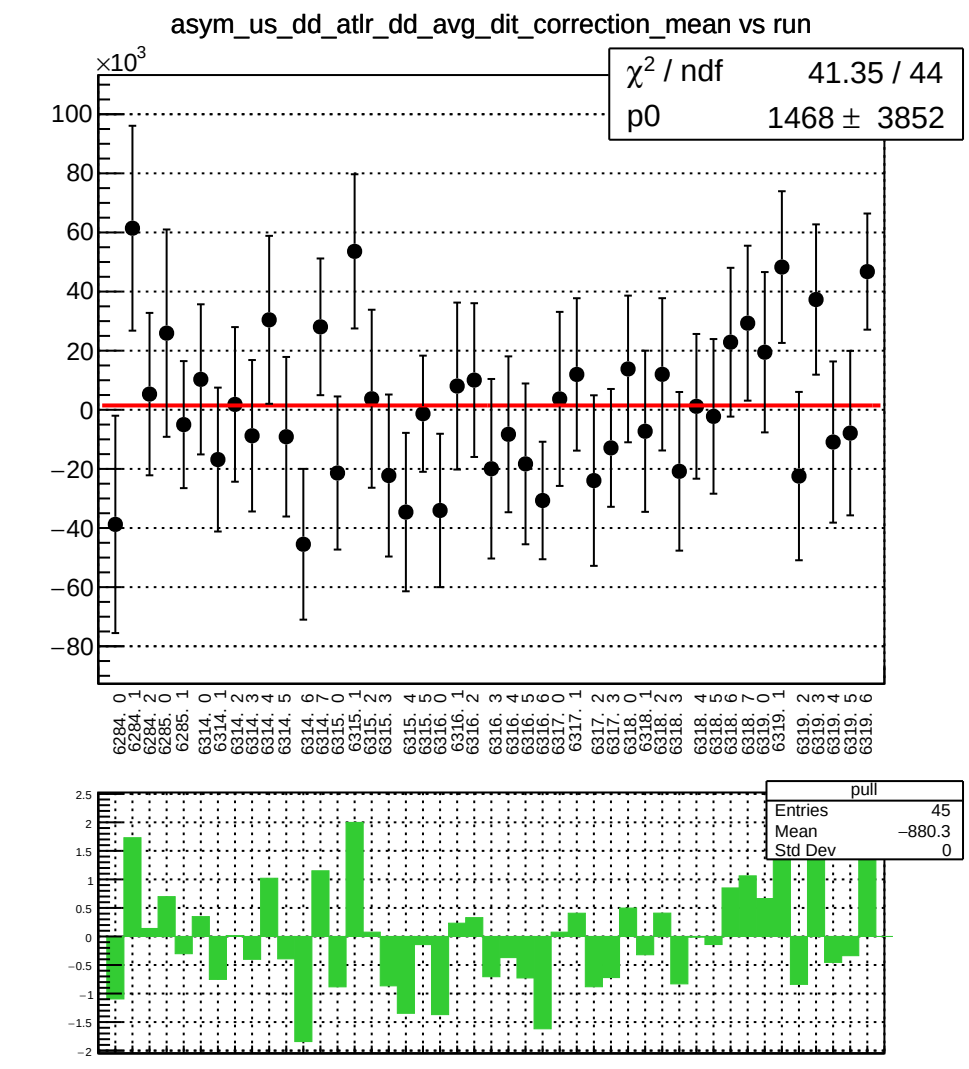
asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.35 / 44
p0 1468 ± 3852
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6316. 0
6316. 1
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6316. 6
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6317. 3
6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −880.3
Std Dev 0
2.5
2
1.5
1
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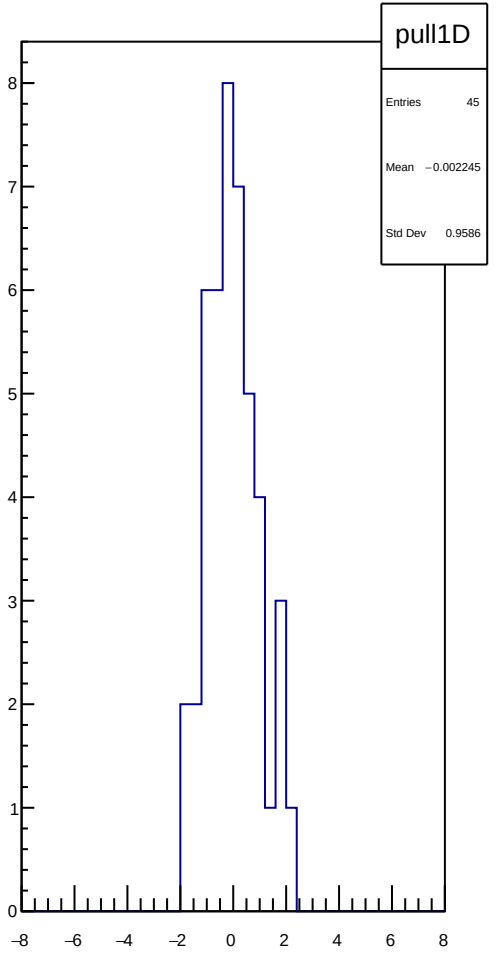
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002245
Std Dev 0.9586
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7
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5
4
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−4
−2
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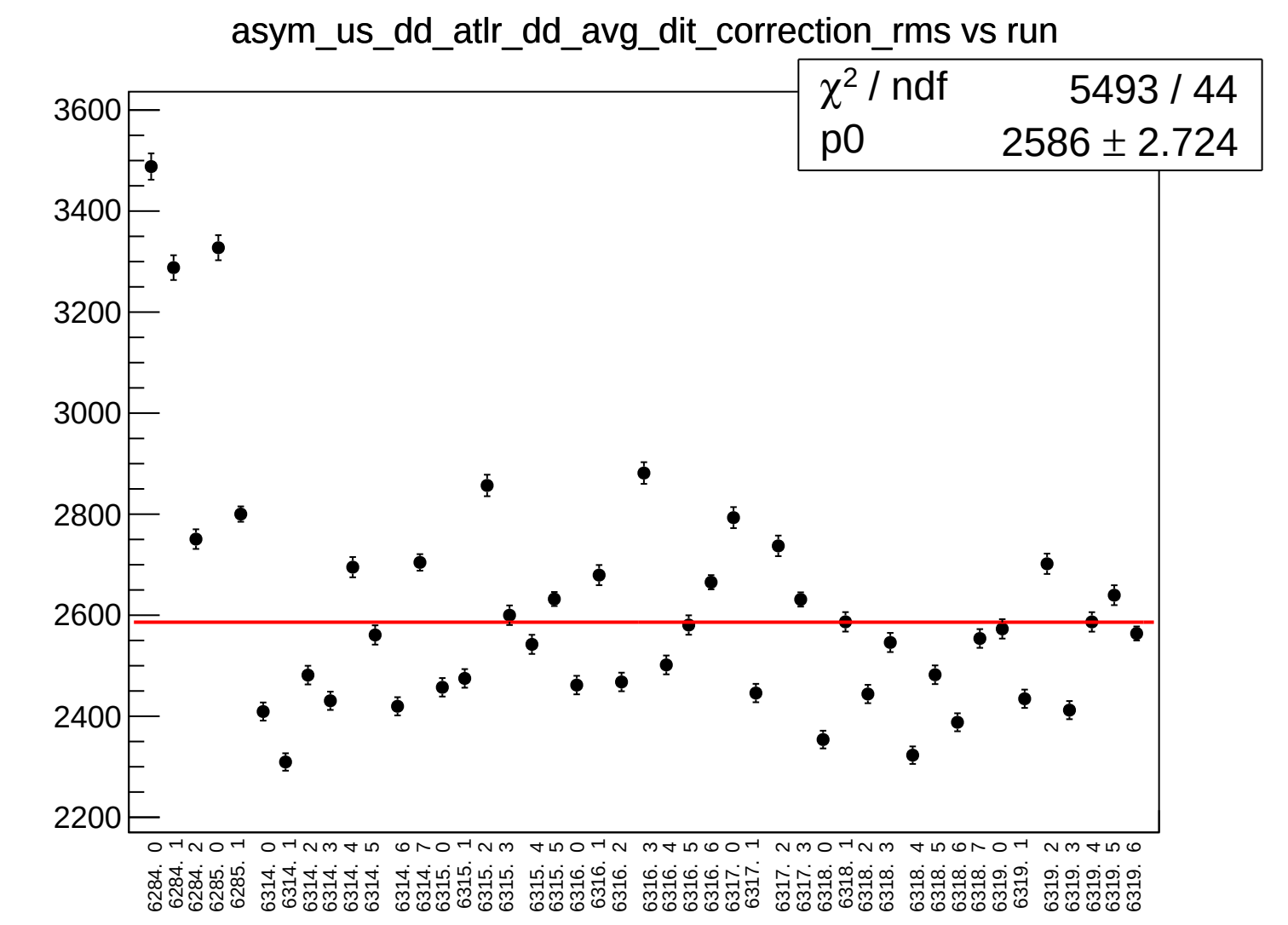
2
4
6
8


asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5493 / 44
p0 2586 ± 2.724
3600
3400
3200
3000
2800
2600
2400
2200
6284. 0
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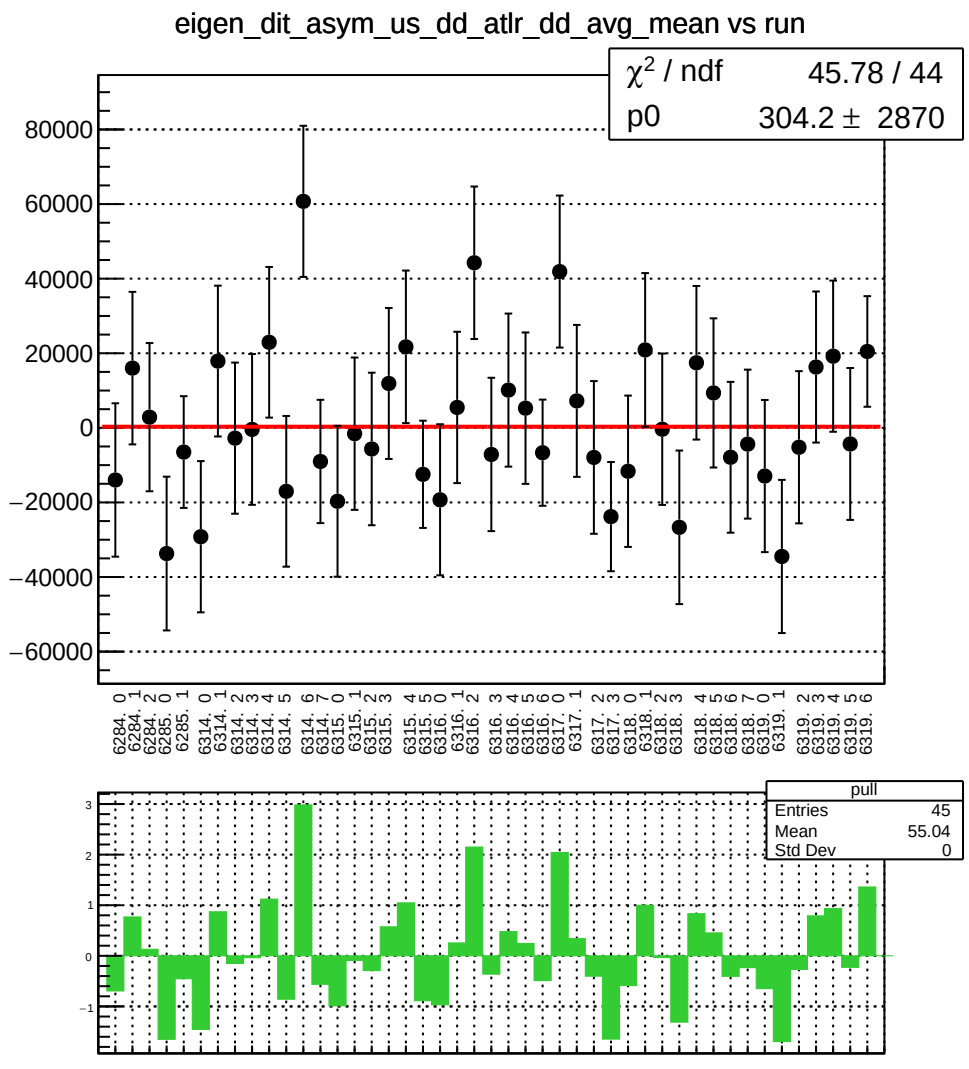
eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 45.78 / 44
p0 304.2 ± 2870
80000
60000
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0
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−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6319. 6
pull
Entries 45
Mean 55.04
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean 0.02149
Std Dev 1.008
9
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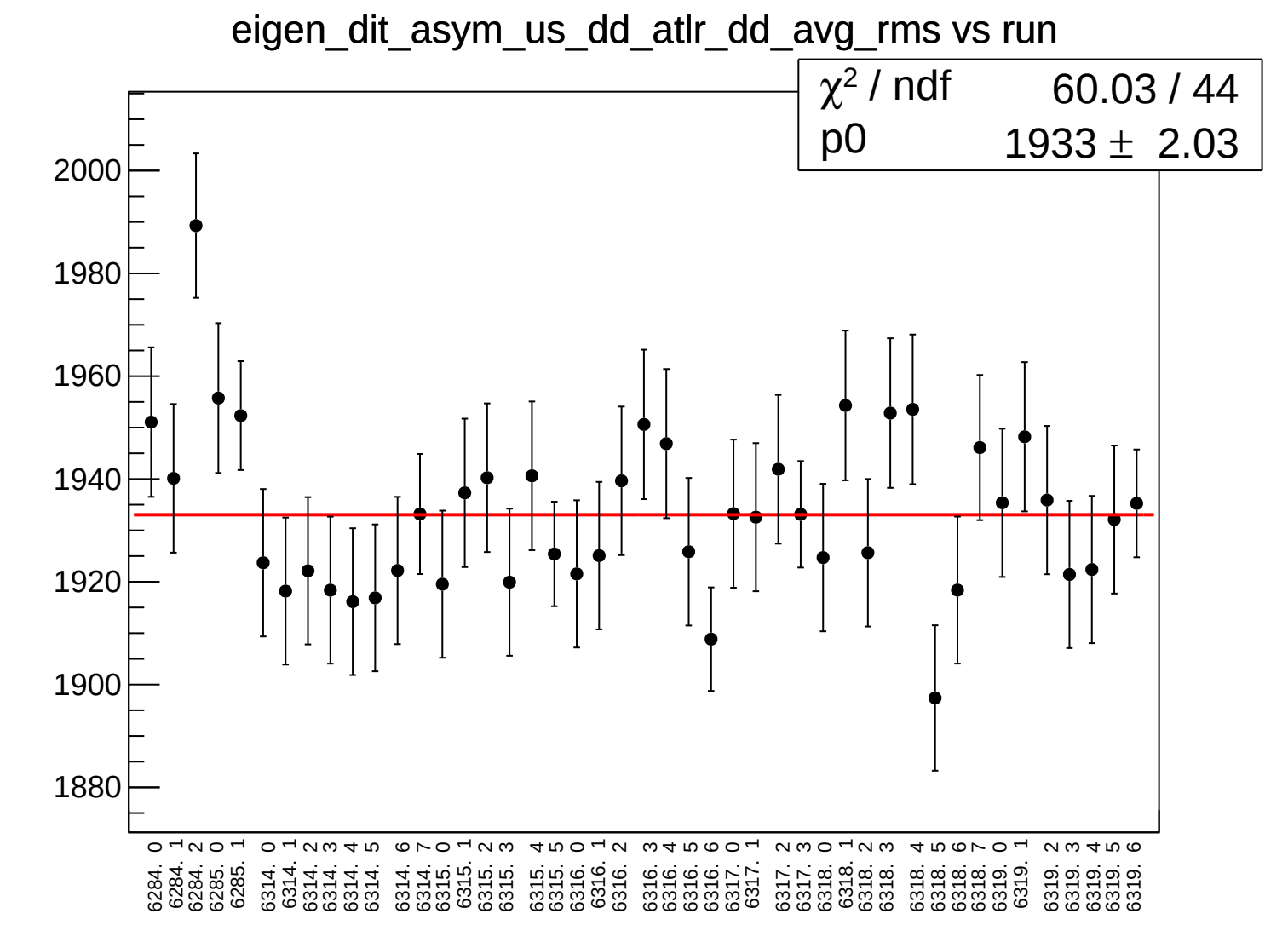
eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 60.03 / 44
p0 1933 ± 2.03
2000
1980
1960
1940
1920
1900
1880
6284. 0
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6318. 0
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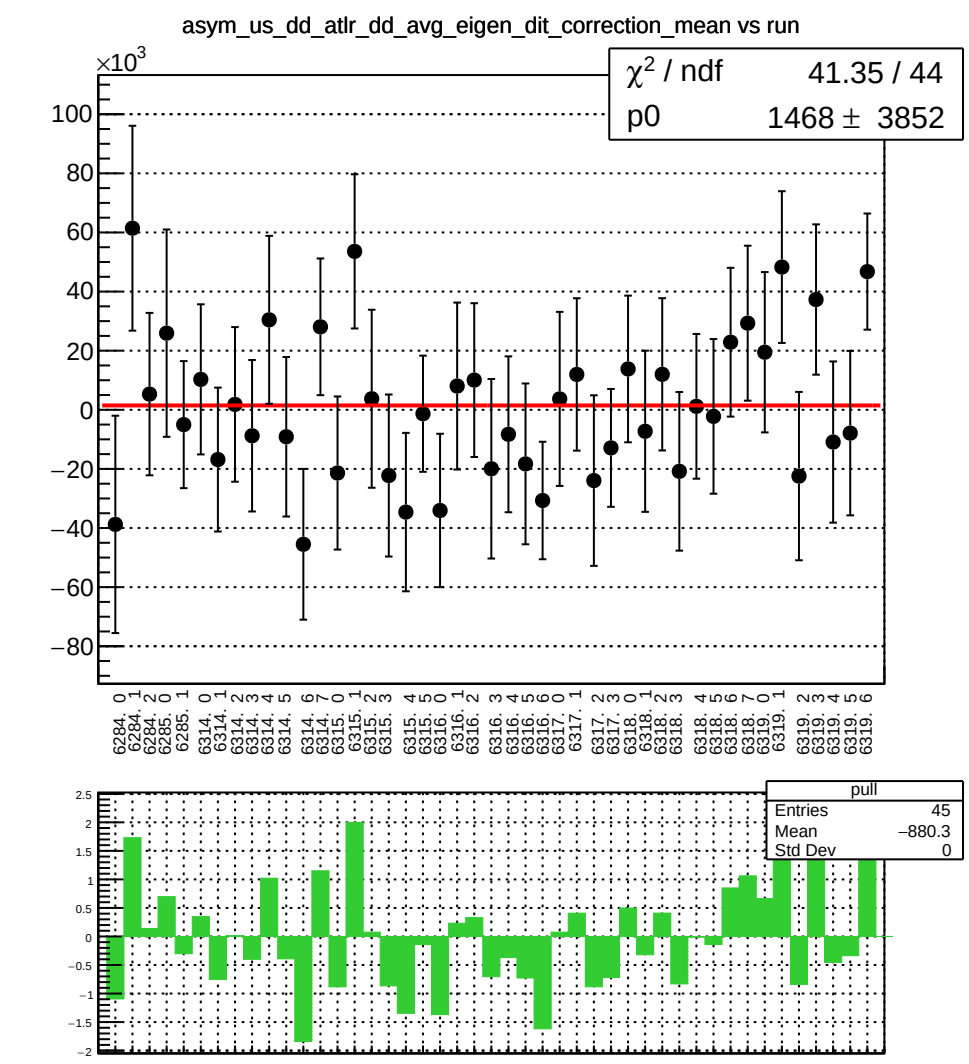
asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.35 / 44
p0 1468 ± 3852
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
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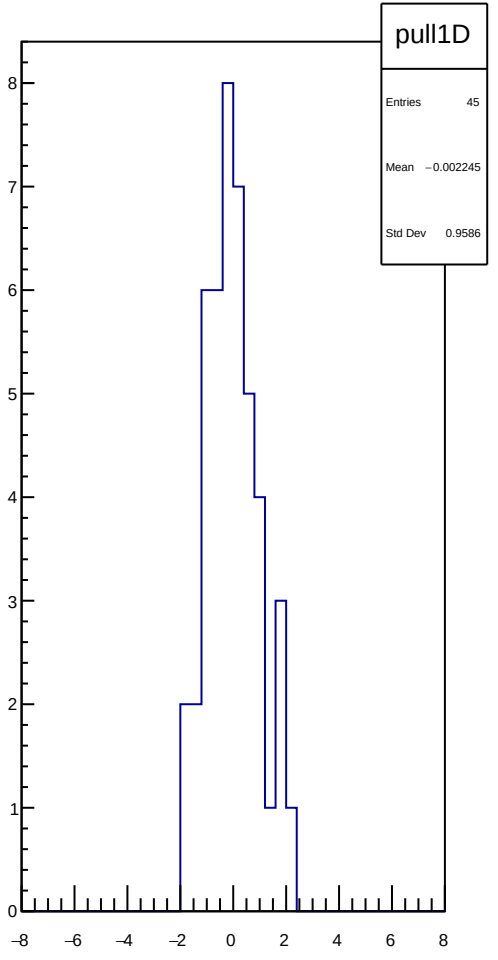
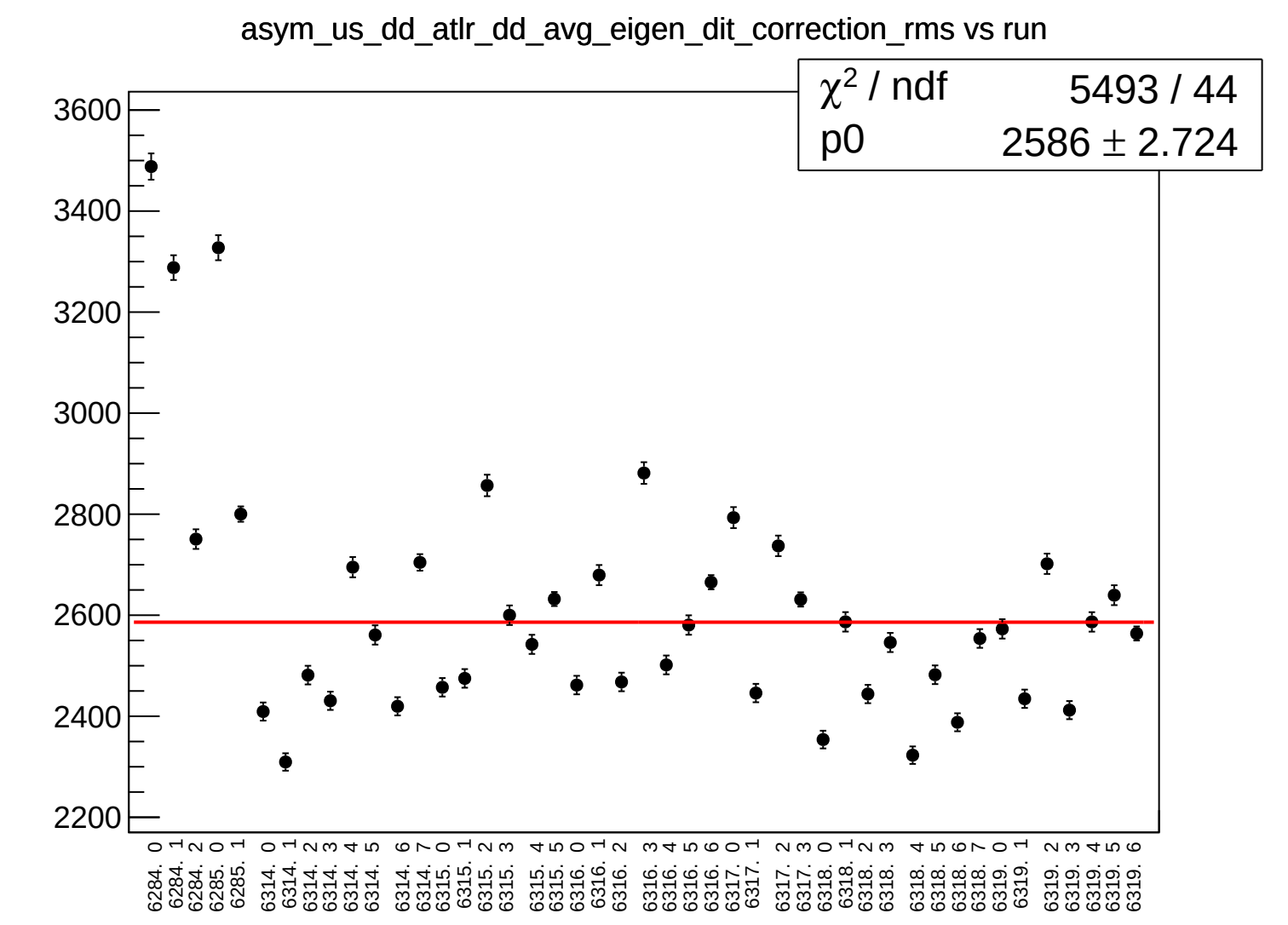
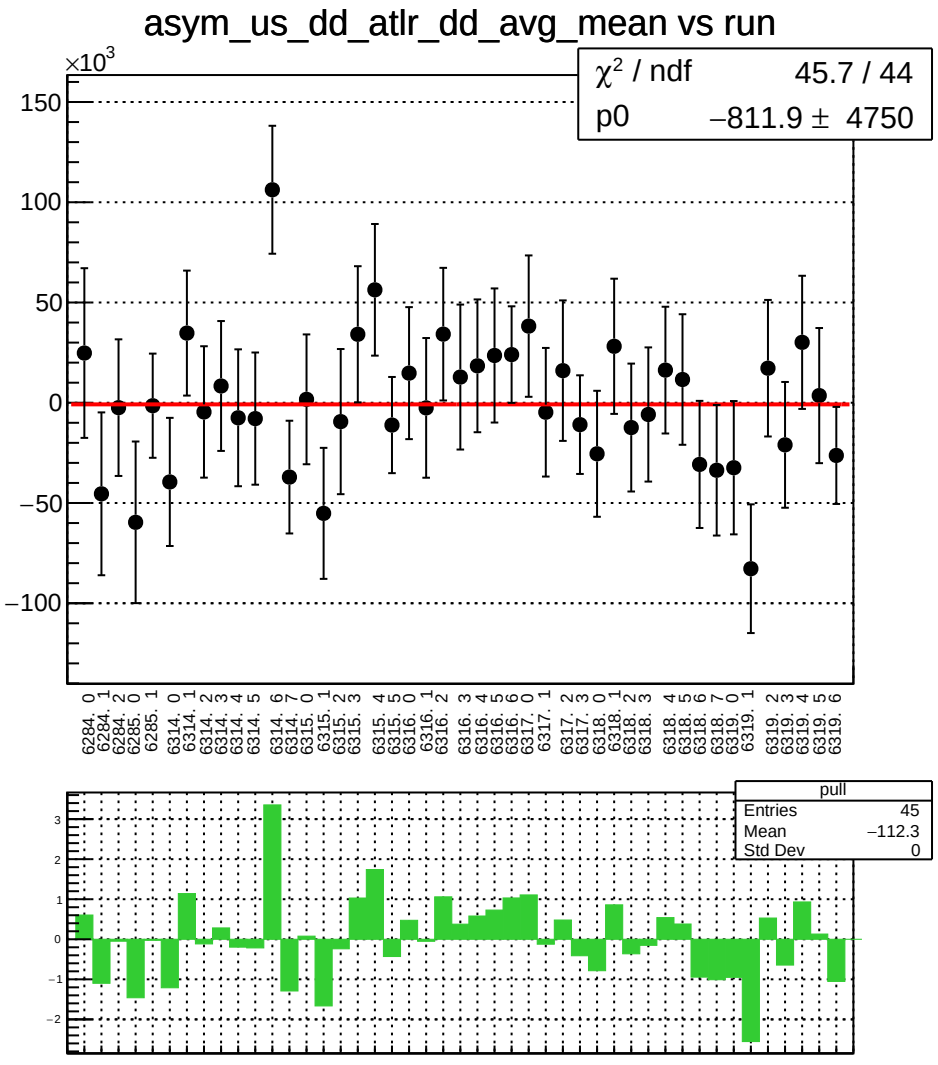
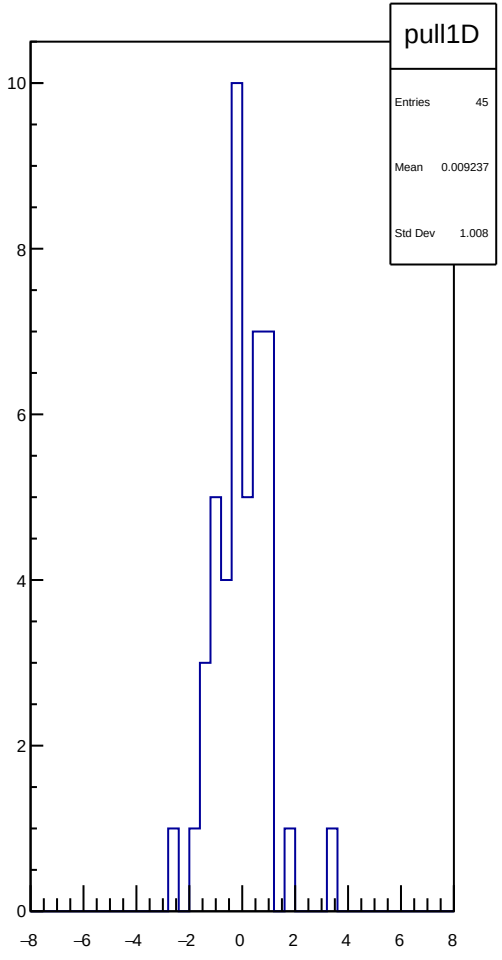
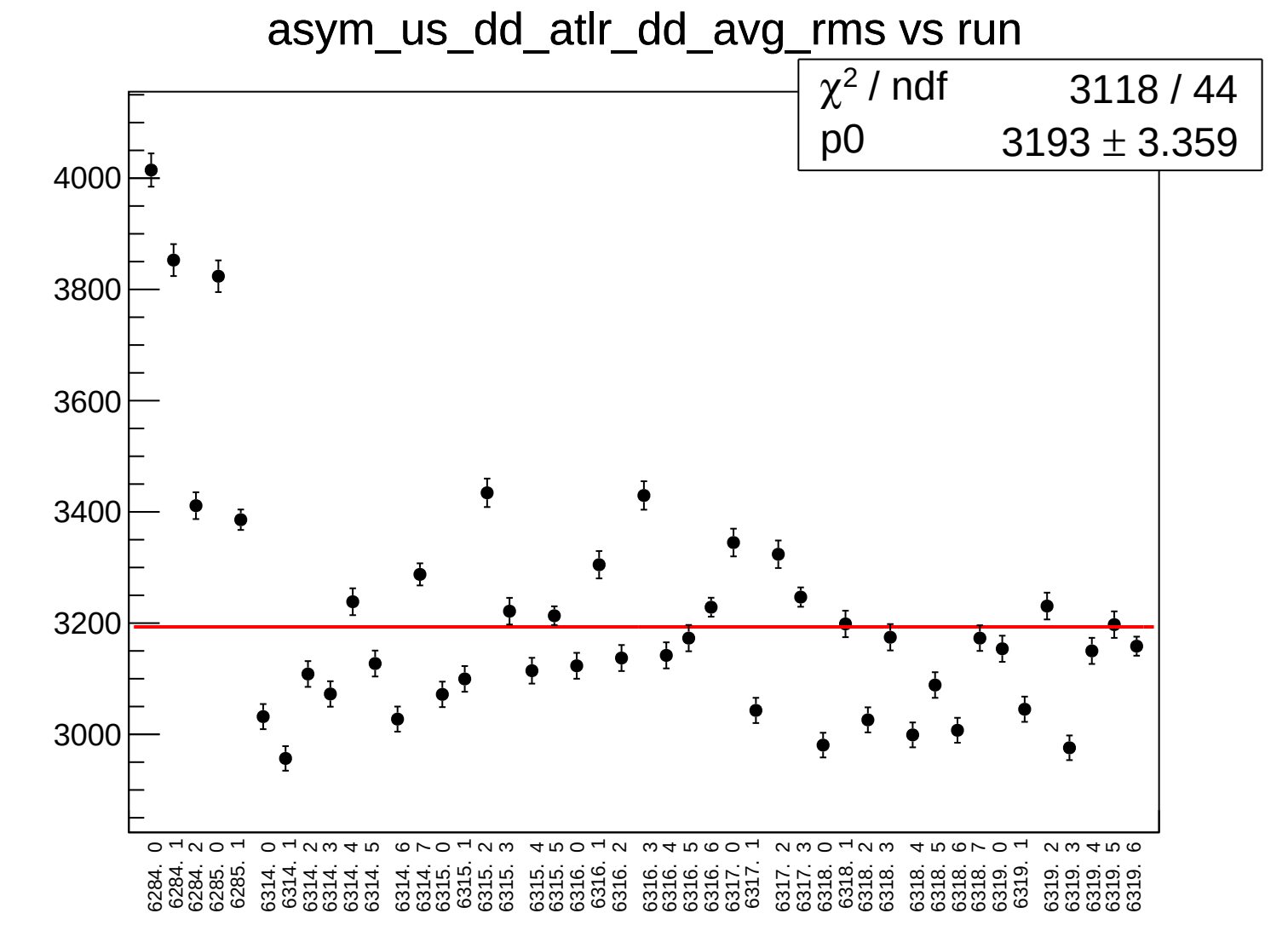
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −880.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

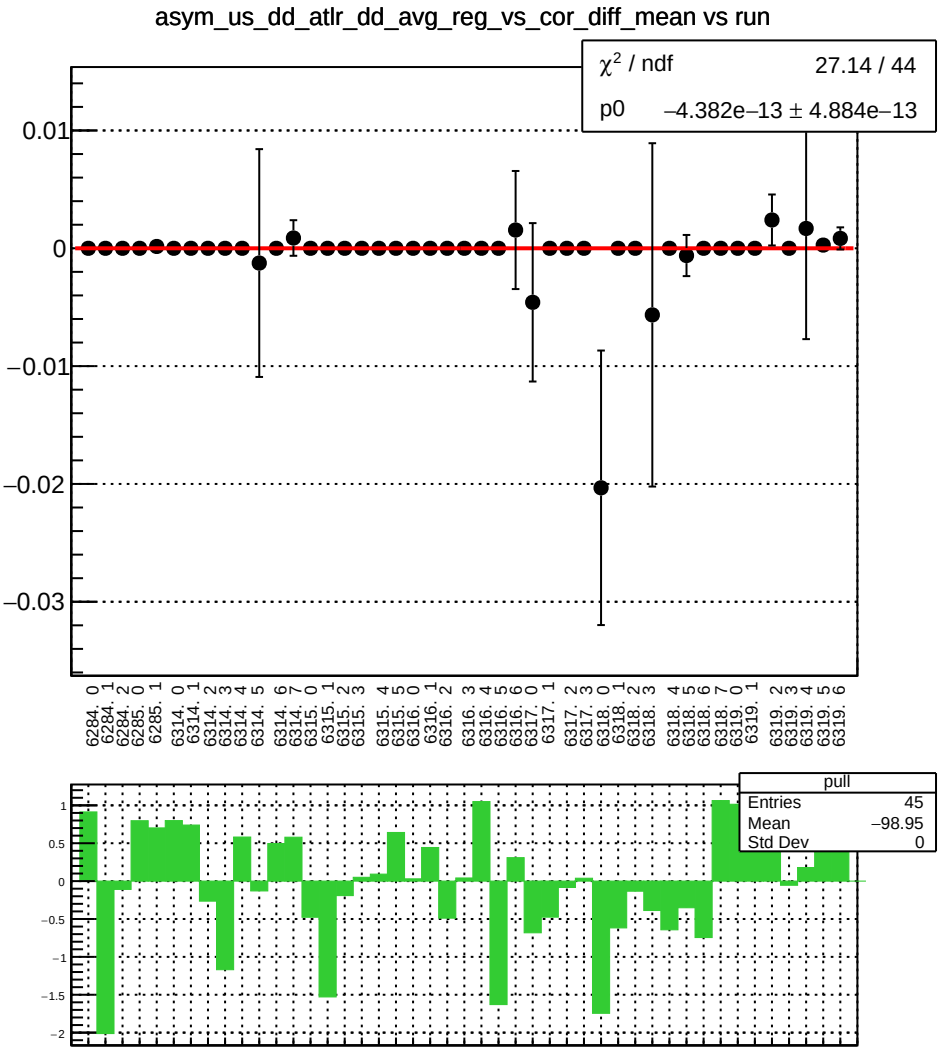

pull1D
Entries 45
Mean −0.002245
Std Dev 0.9586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

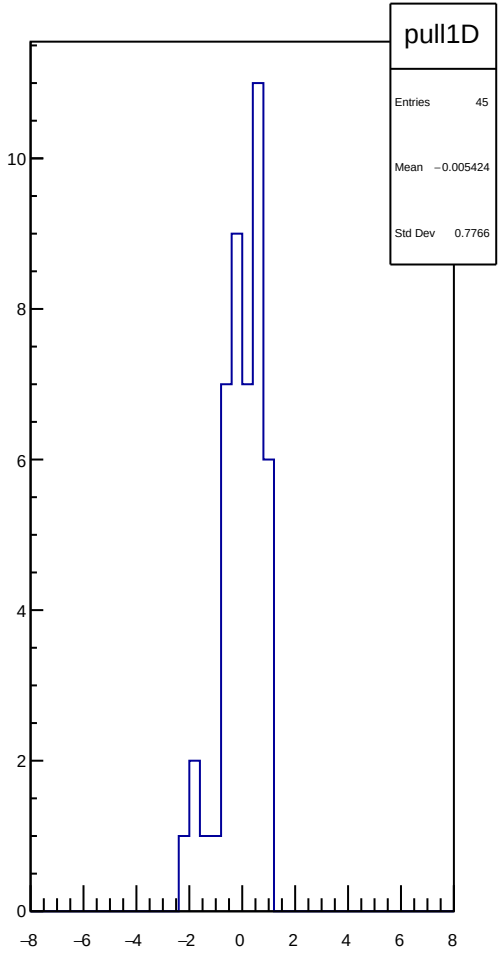

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5493 / 44
p0 2586 ± 2.724
3600
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

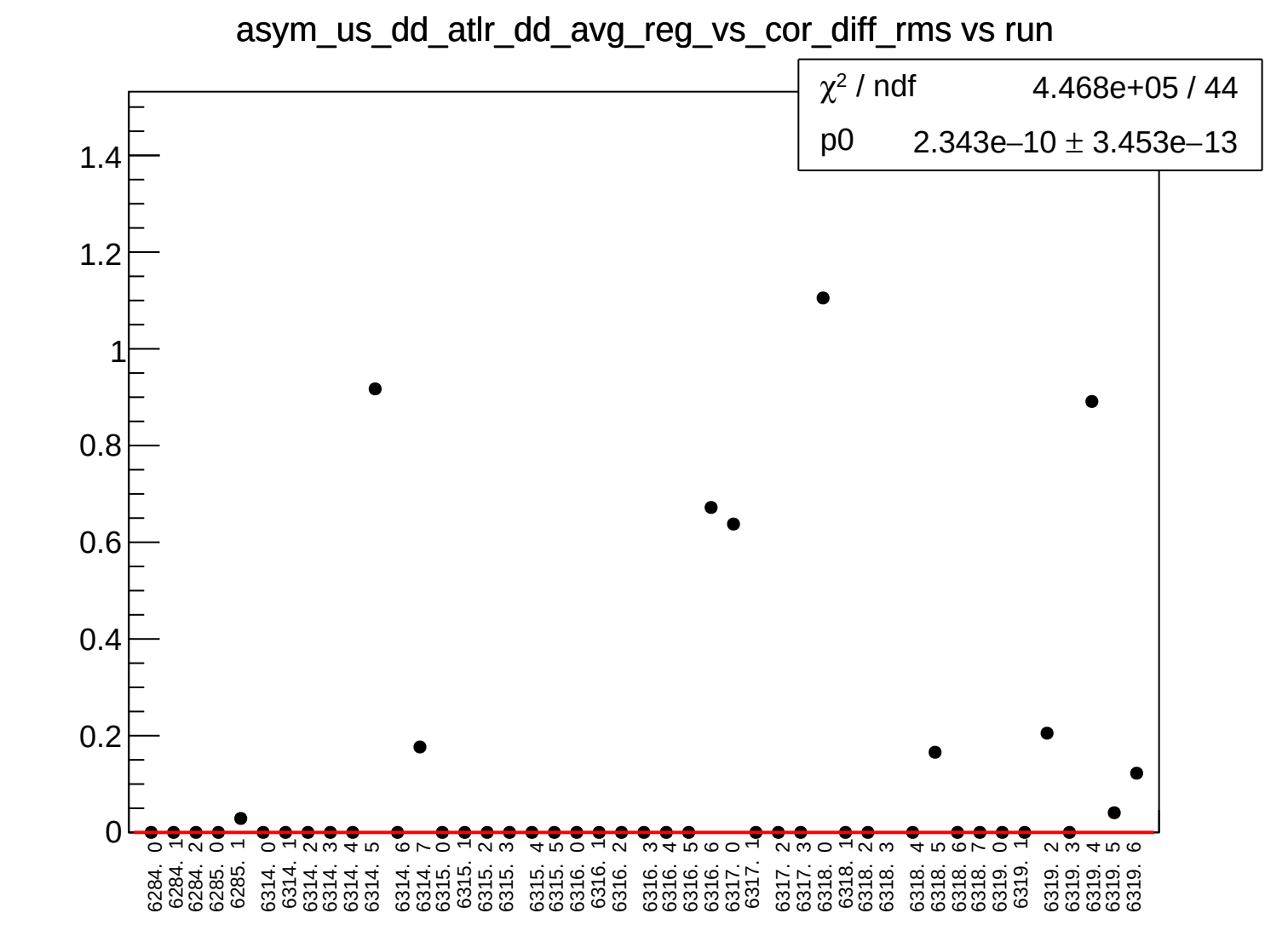

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 45.7 / 44
p0 −811.9 ± 4750
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −112.3
Std Dev 0
3
2
1
0
−1
−2

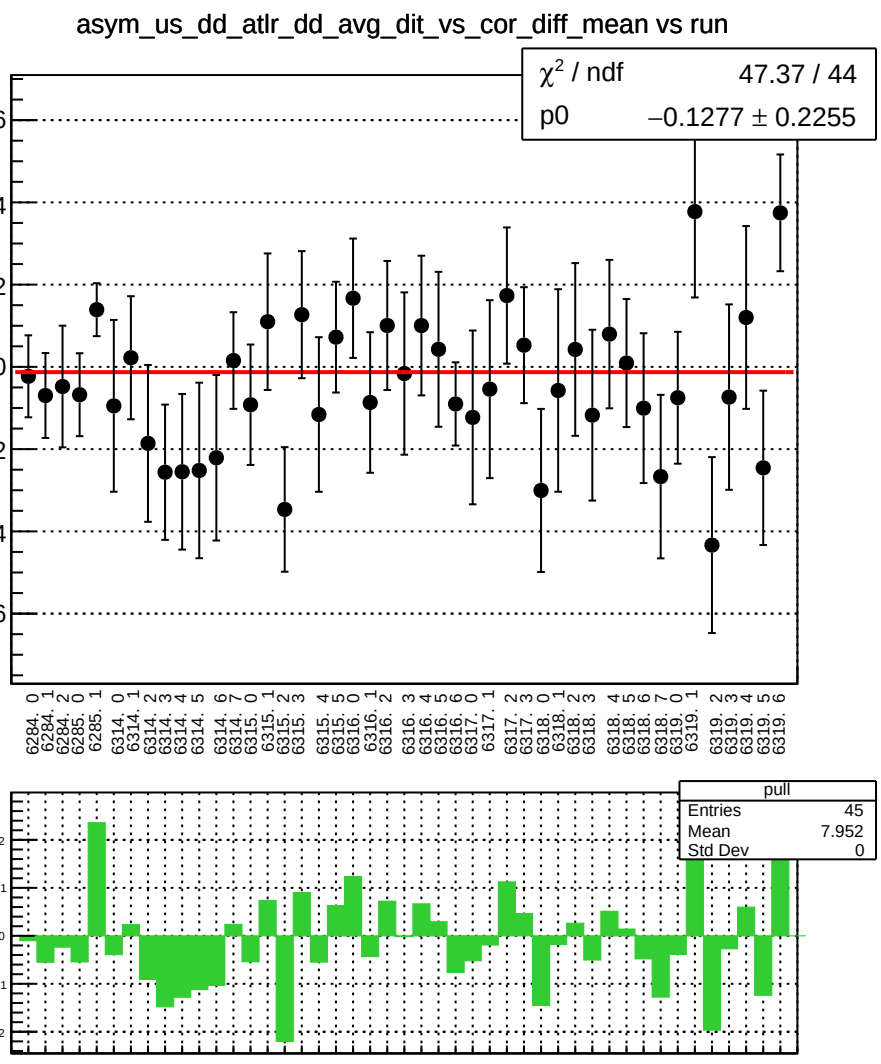

pull1D
Entries 45
Mean 0.009237
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

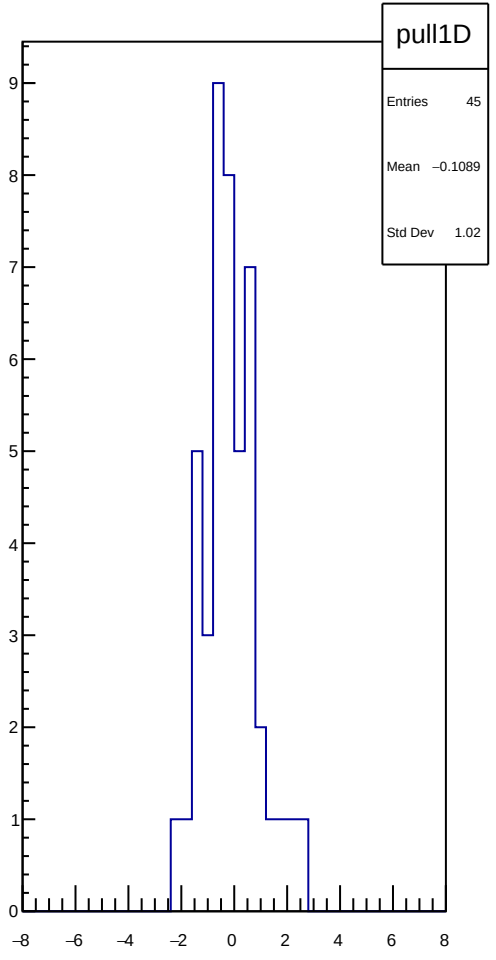

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 3118 / 44
p0 3193 ± 3.359
4000
3800
3600
3400
3200
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

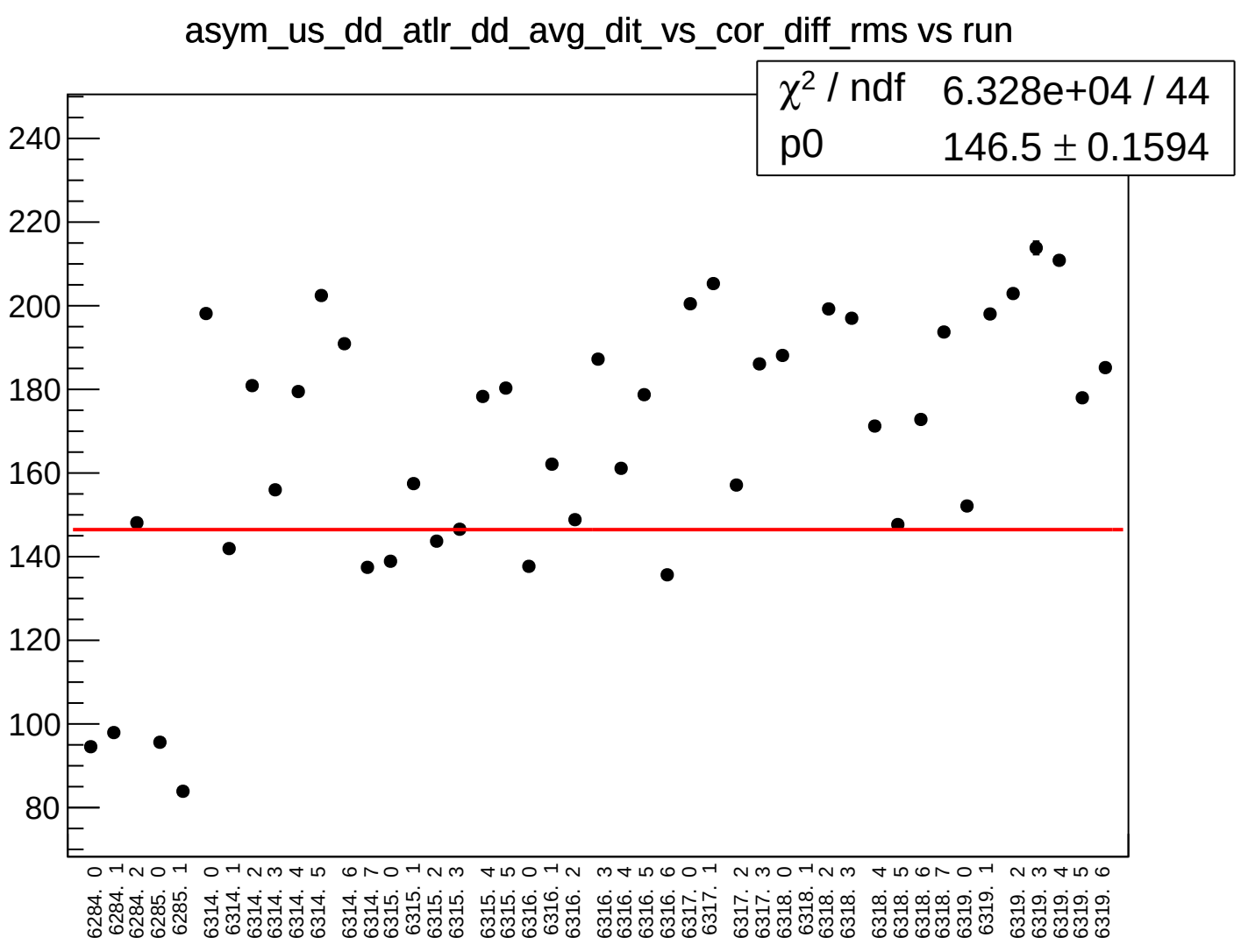

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.14 / 44
p0 −4.382e−13 ± 4.884e−13
0.01
0
−0.01
−0.02
−0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −98.95
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

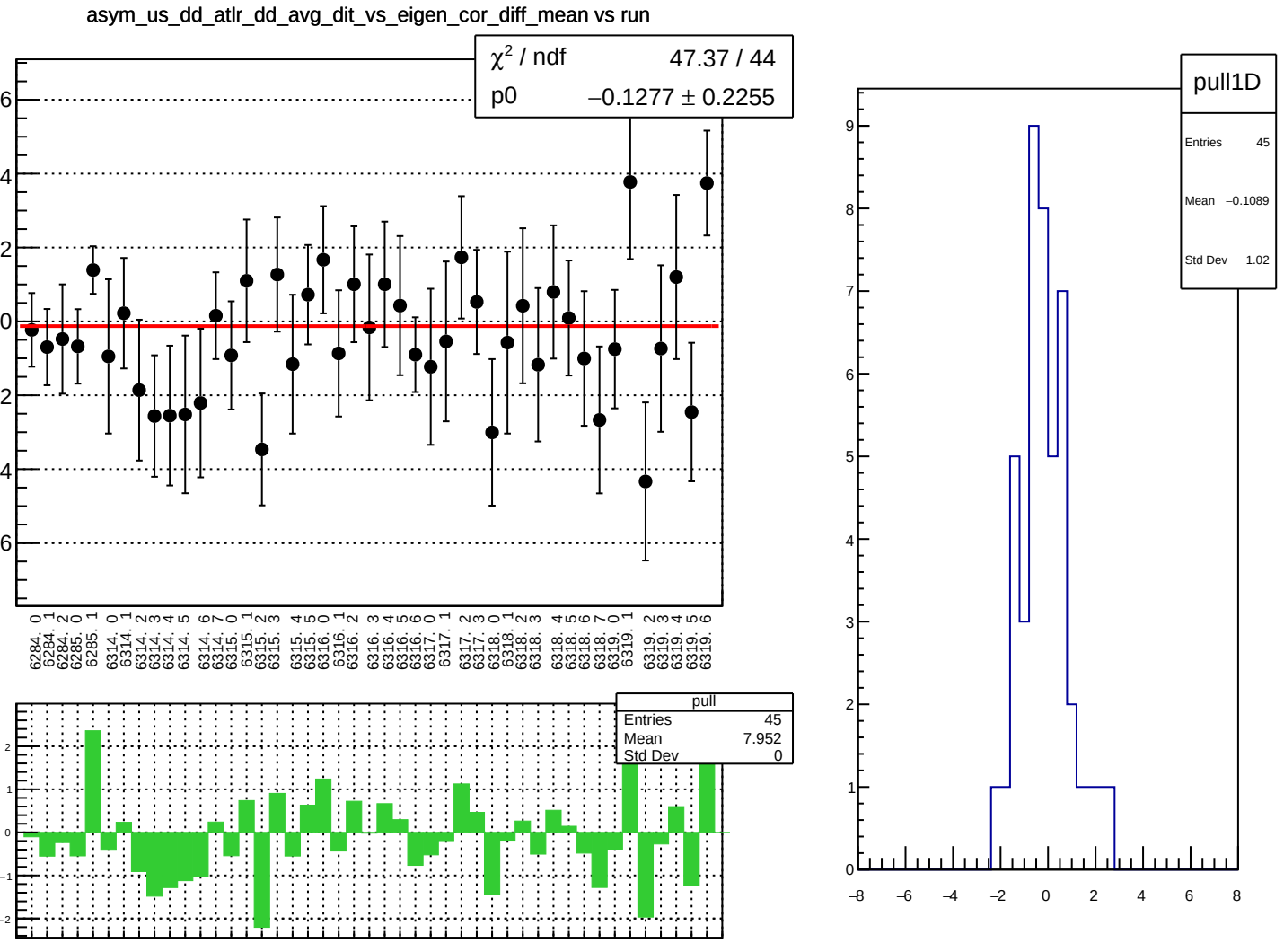

pull1D
Entries 45
Mean −0.005424
Std Dev 0.7766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

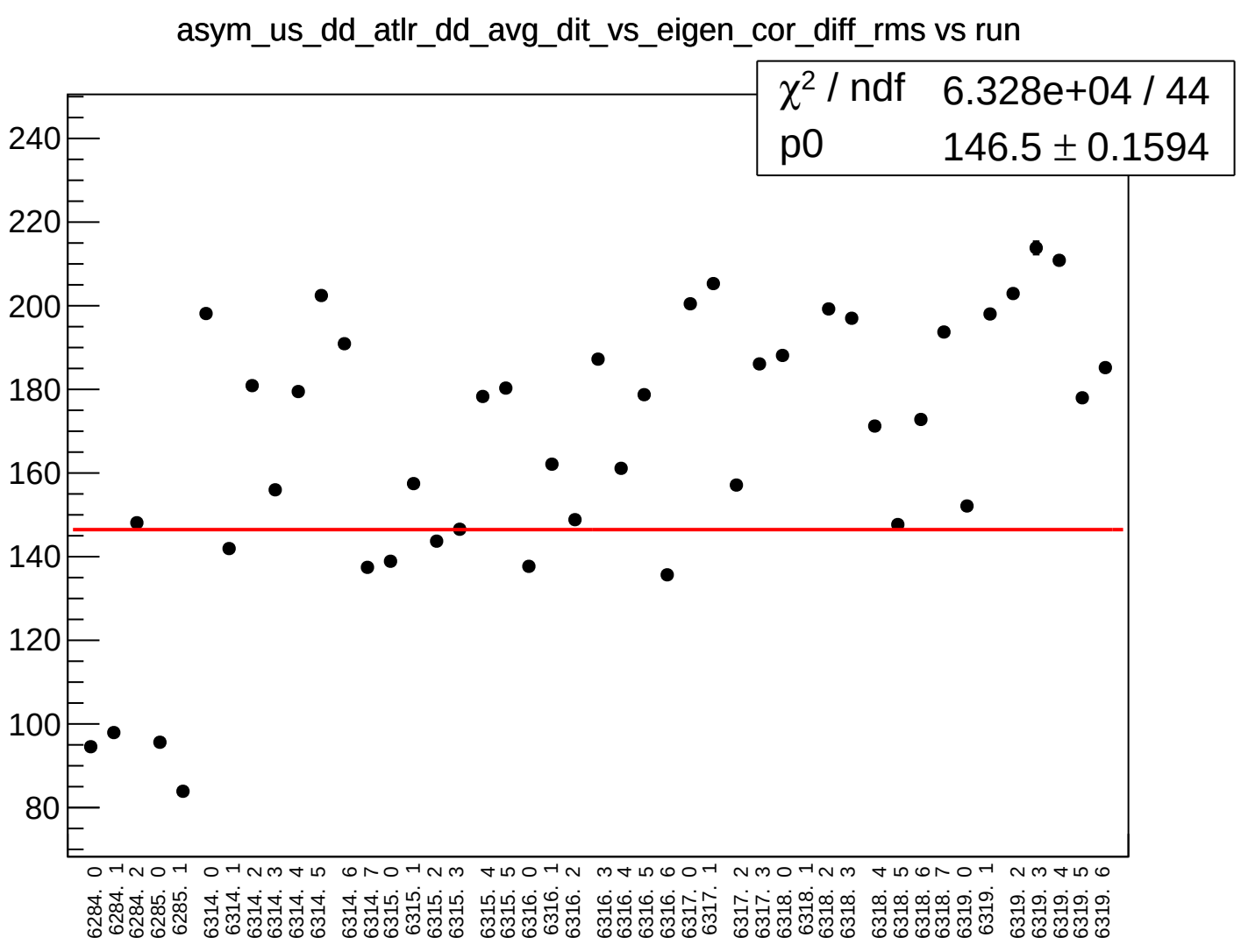

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.468e+05 / 44
p0 2.343e−10 ± 3.453e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

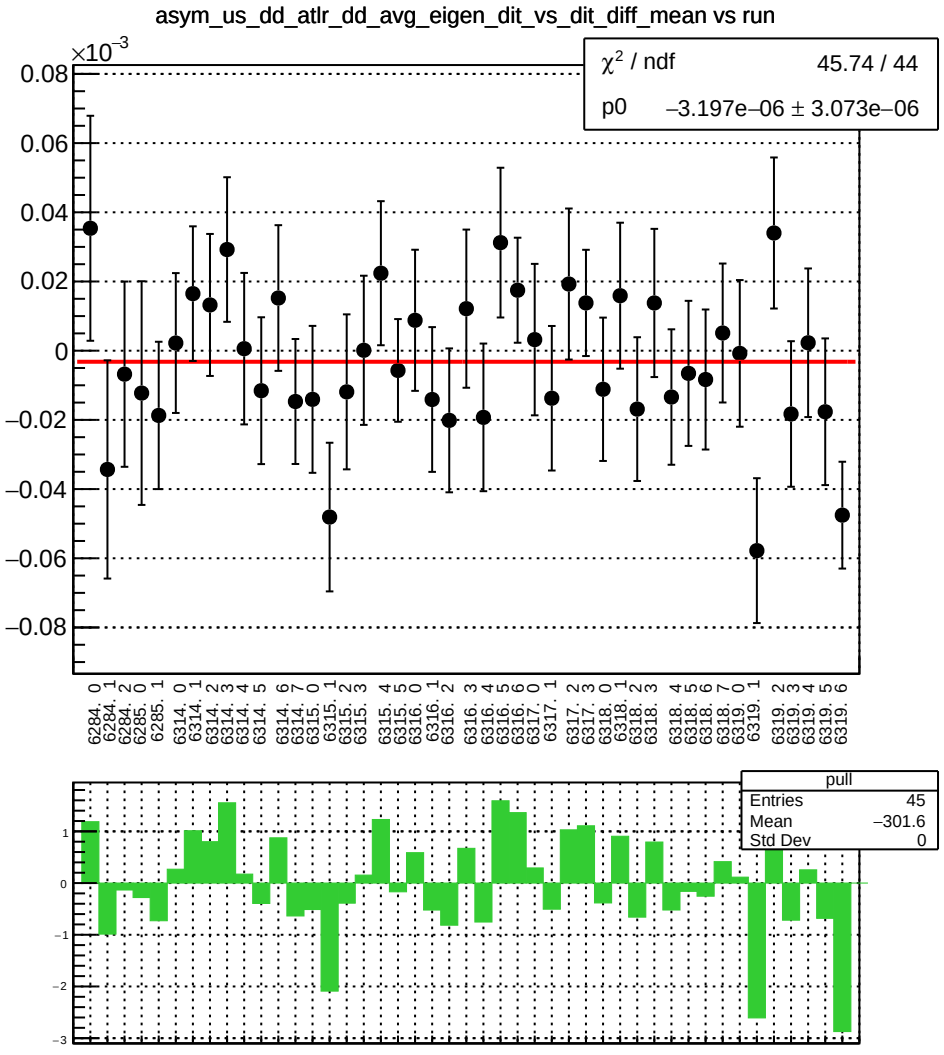

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.37 / 44
p0 −0.1277 ± 0.2255
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.952
Std Dev 0
2
1
0
−1
−2

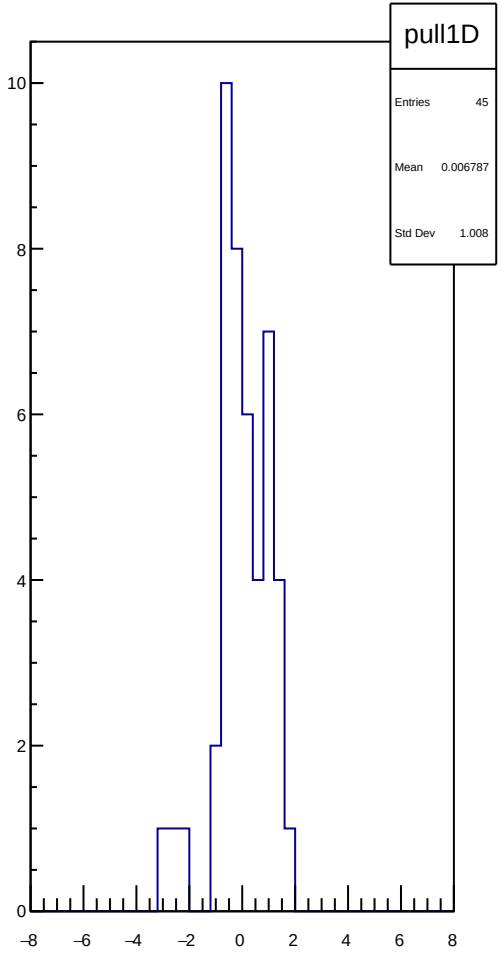

pull1D
Entries 45
Mean −0.1089
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

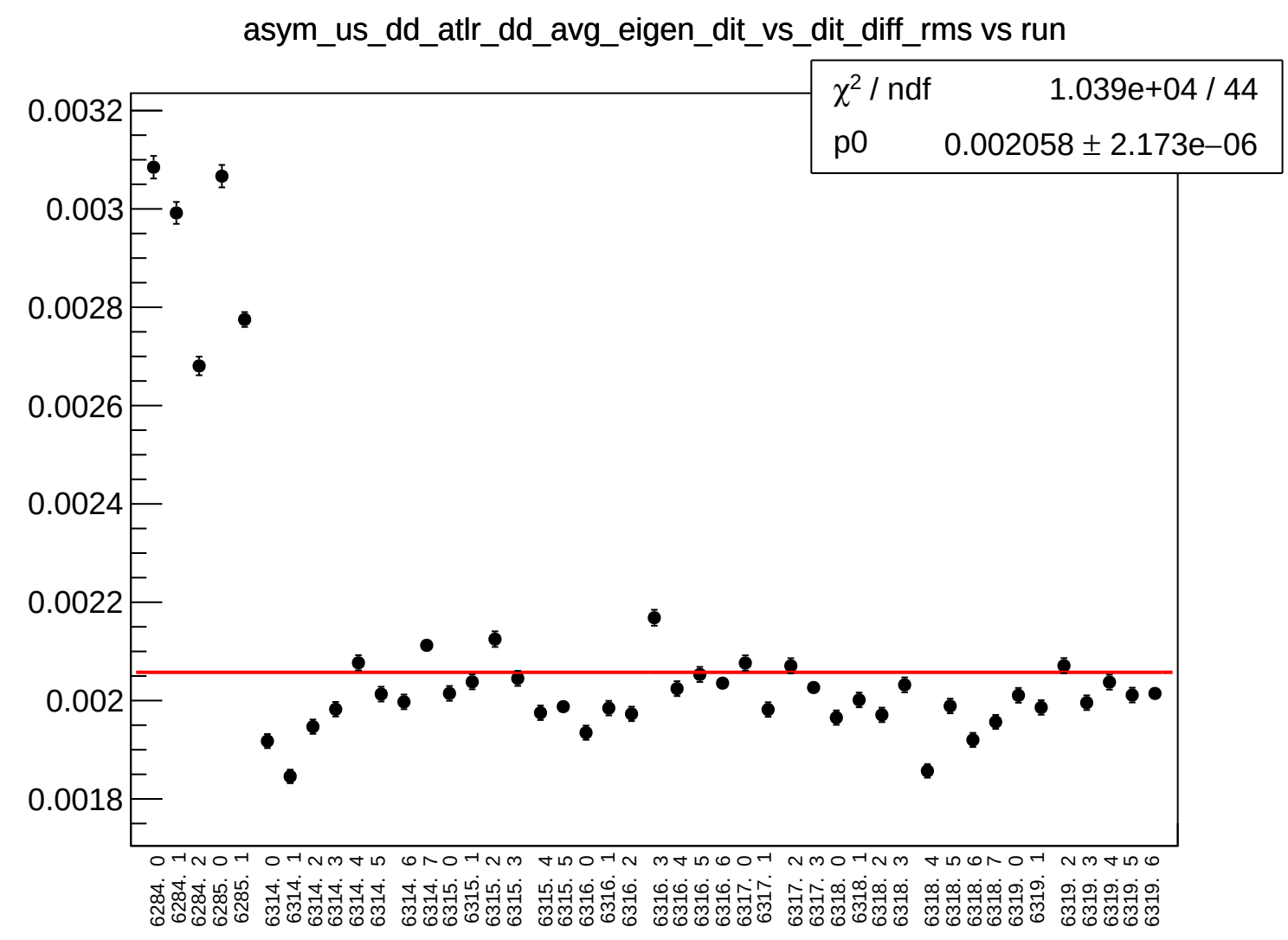

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.328e+04 / 44
p0 146.5 ± 0.1594
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

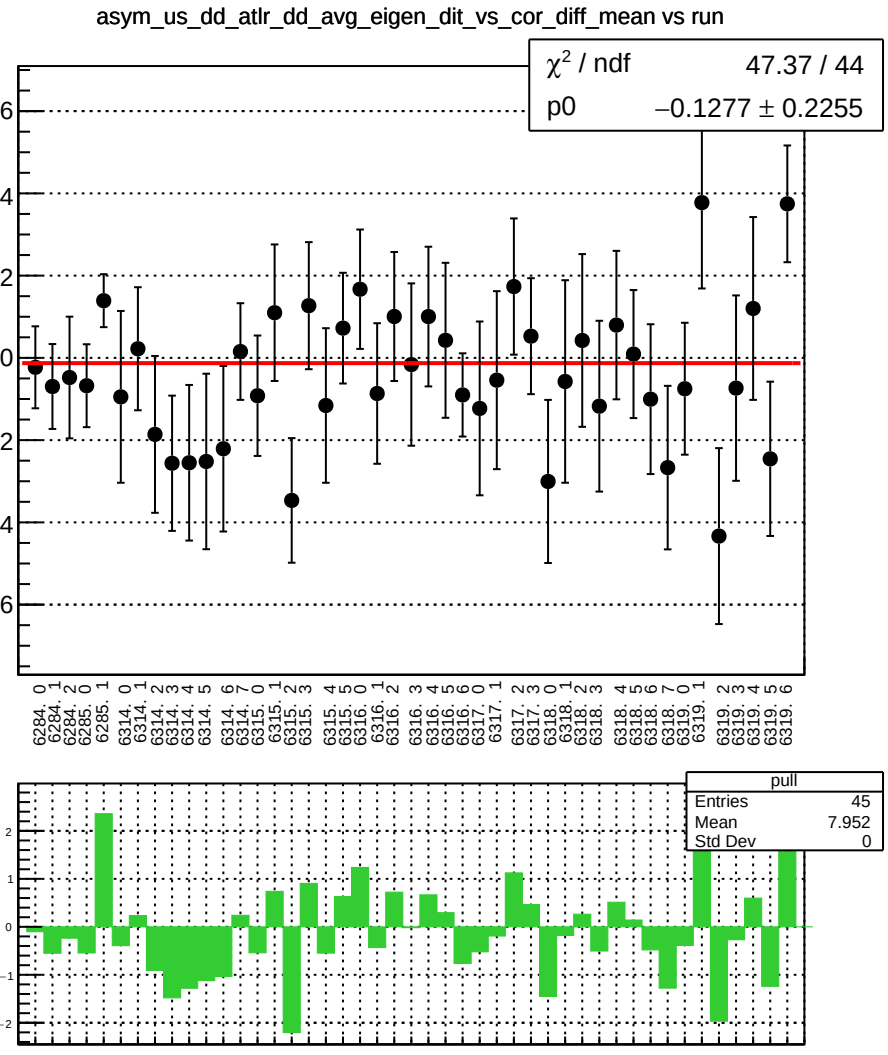

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.37 / 44
p0 −0.1277 ± 0.2255
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.952
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1089
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

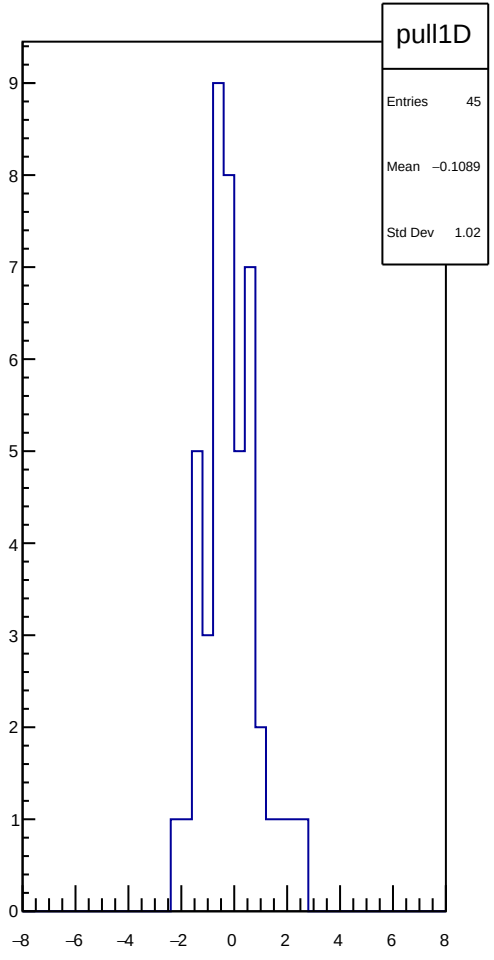

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.328e+04 / 44
p0 146.5 ± 0.1594
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

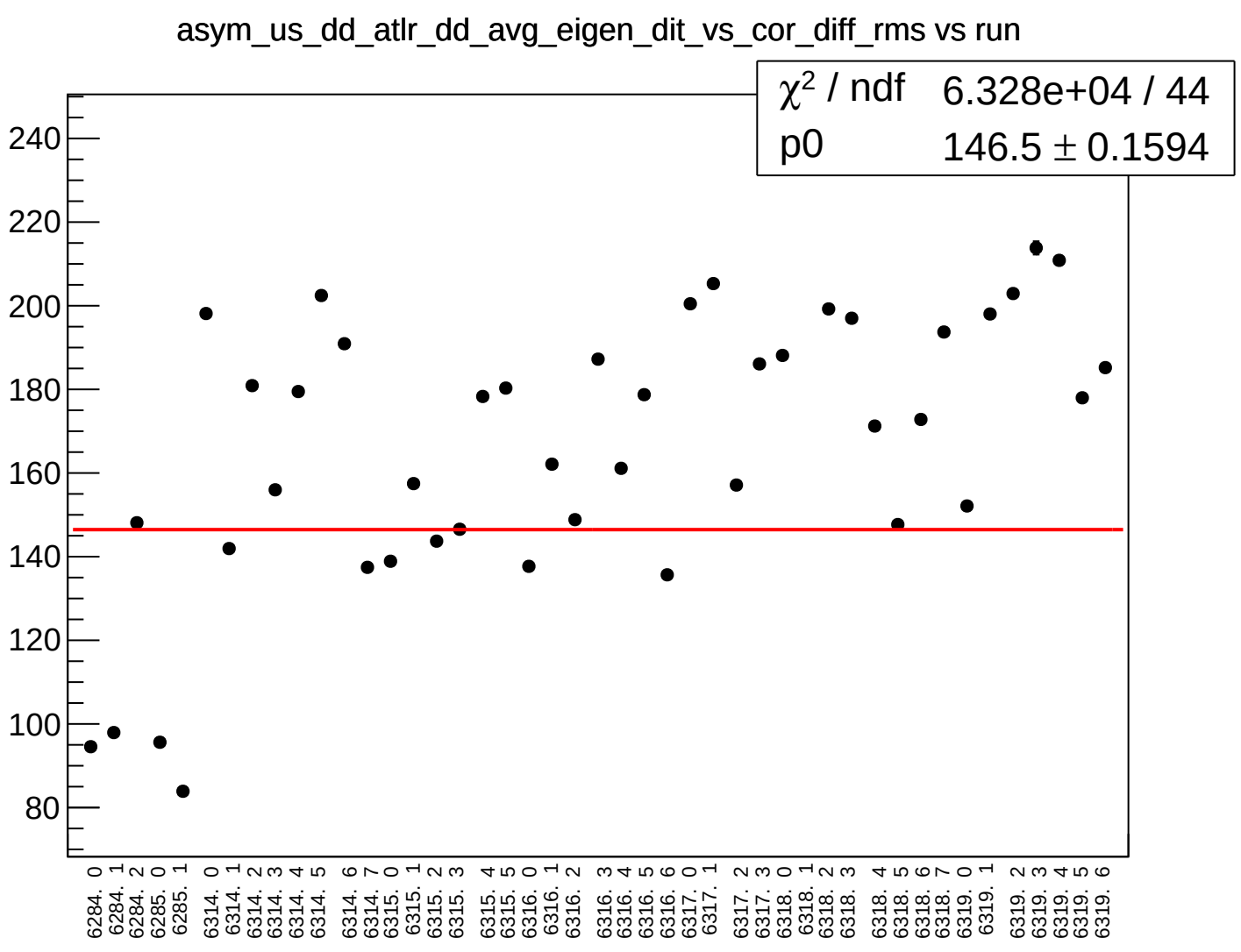

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.74 / 44
p0 −3.197e−06 ± 3.073e−06
pull
Entries 45
Mean −301.6
Std Dev 0

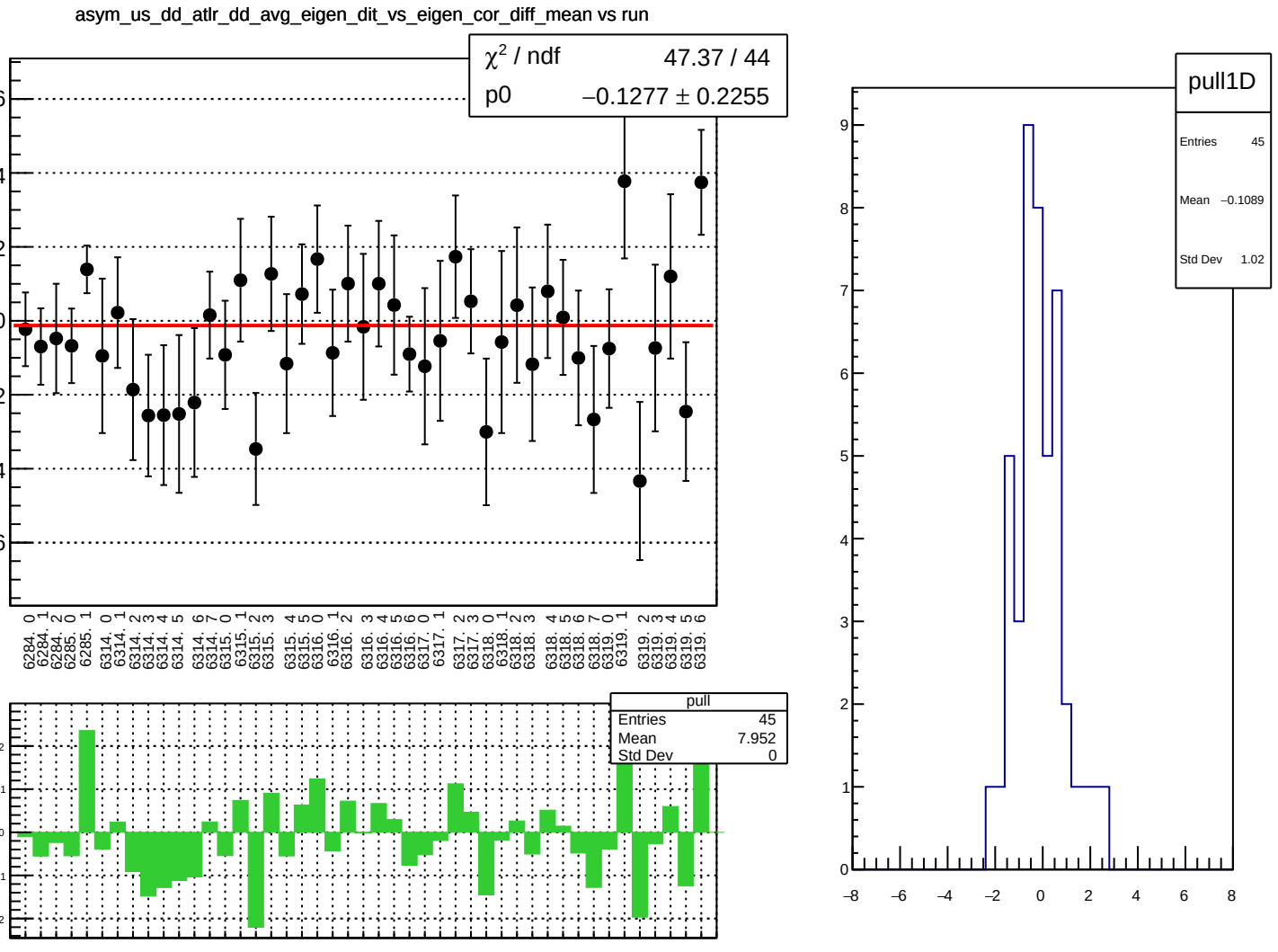

pull1D
Entries 45
Mean 0.006787
Std Dev 1.008

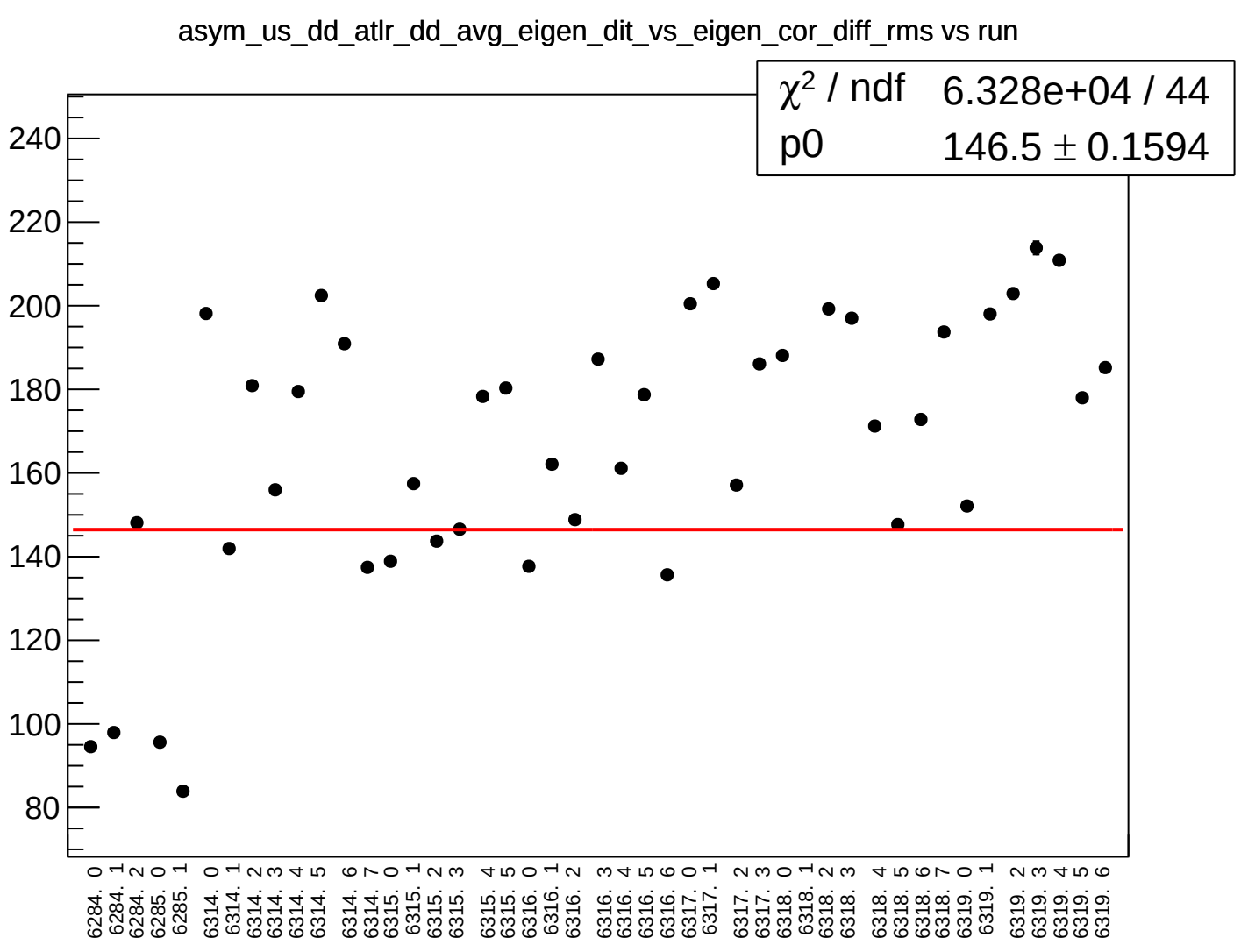

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.039e+04 / 44
p0 0.002058 ± 2.173e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.37 / 44
p0 −0.1277 ± 0.2255
pull
Entries 45
Mean 7.952
Std Dev 0


pull1D
Entries 45
Mean −0.1089
Std Dev 1.02


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.328e+04 / 44
p0 146.5 ± 0.1594
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.37 / 44
p0 −0.1277 ± 0.2255
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.952
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1089
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.328e+04 / 44
p0 146.5 ± 0.1594
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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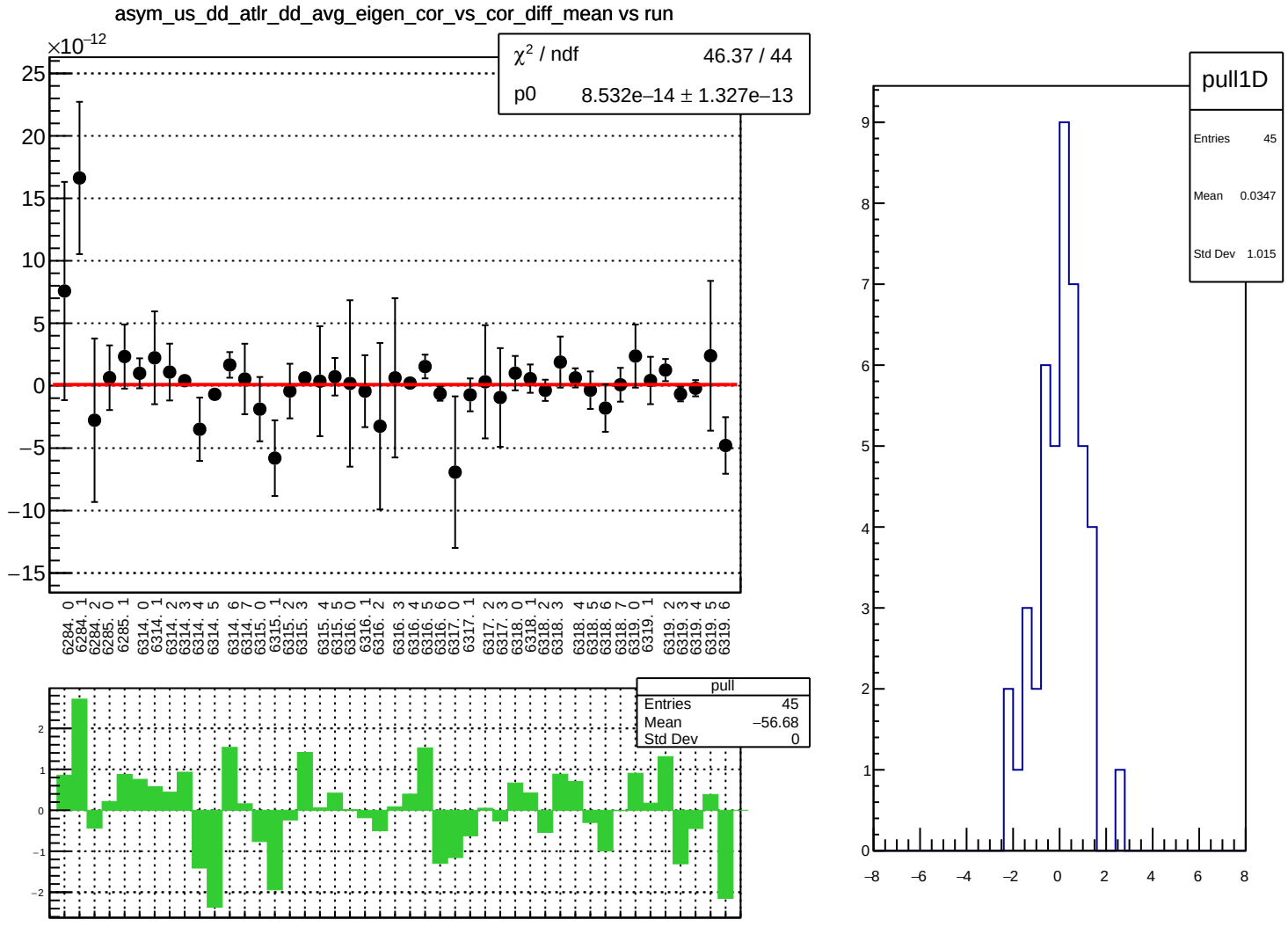
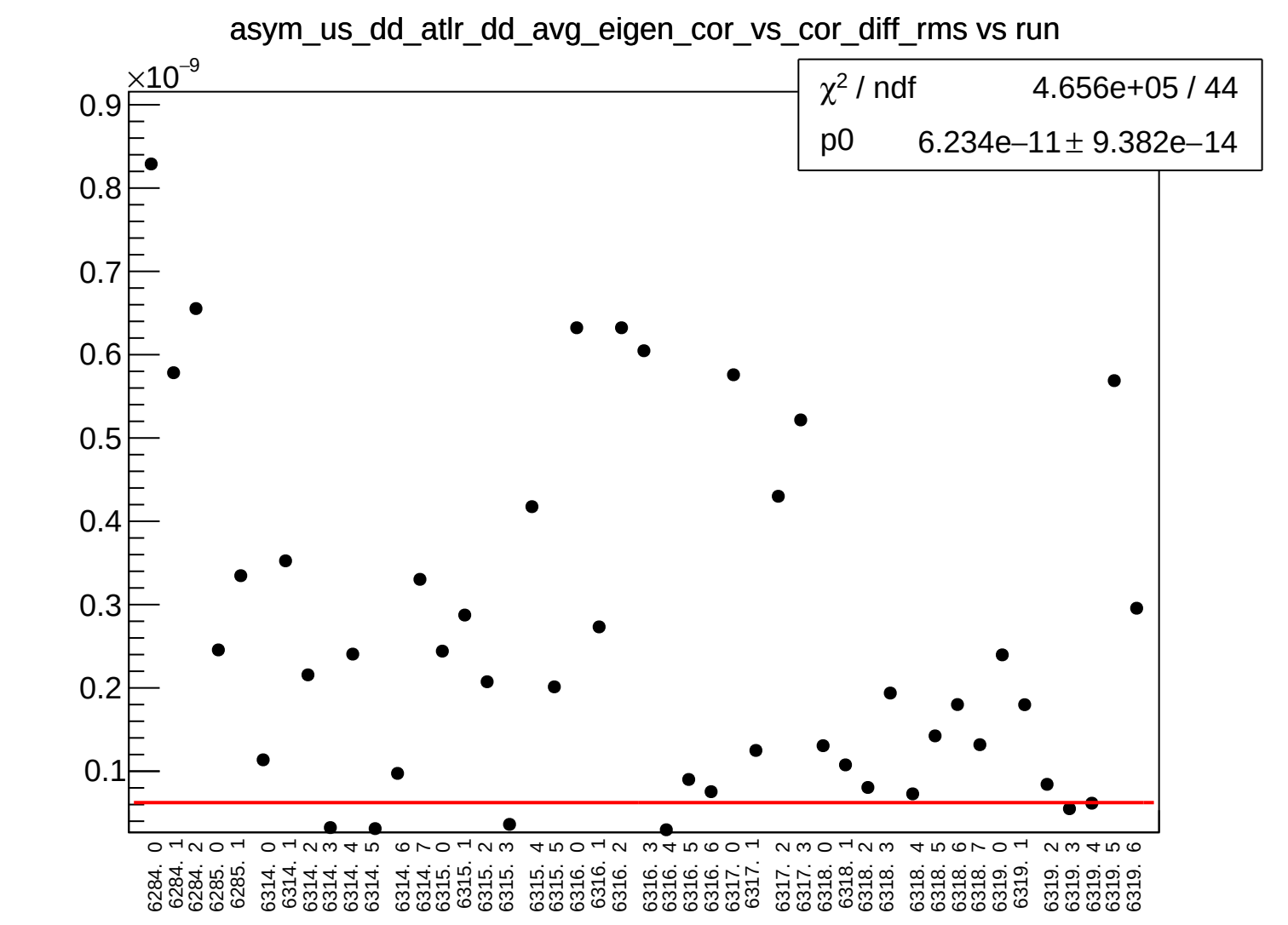
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.37 / 44
p0 8.532e−14 ± 1.327e−13
pull
Entries 45
Mean −56.68
Std Dev 0
pull1D
Entries 45
Mean 0.0347
Std Dev 1.015


asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.656e+05 / 44
p0 6.234e−11 ± 9.382e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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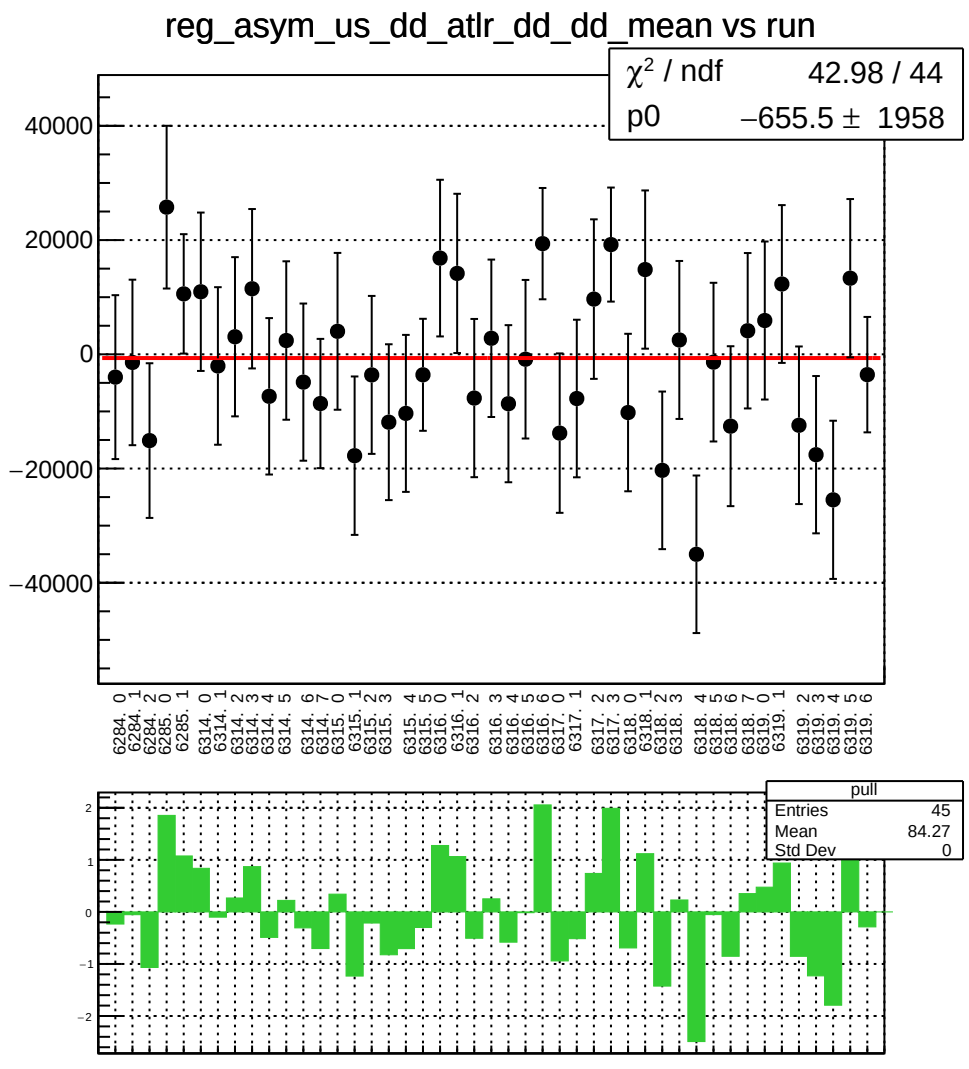
6319. 5
6319. 6


reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.98 / 44
p0 −655.5 ± 1958
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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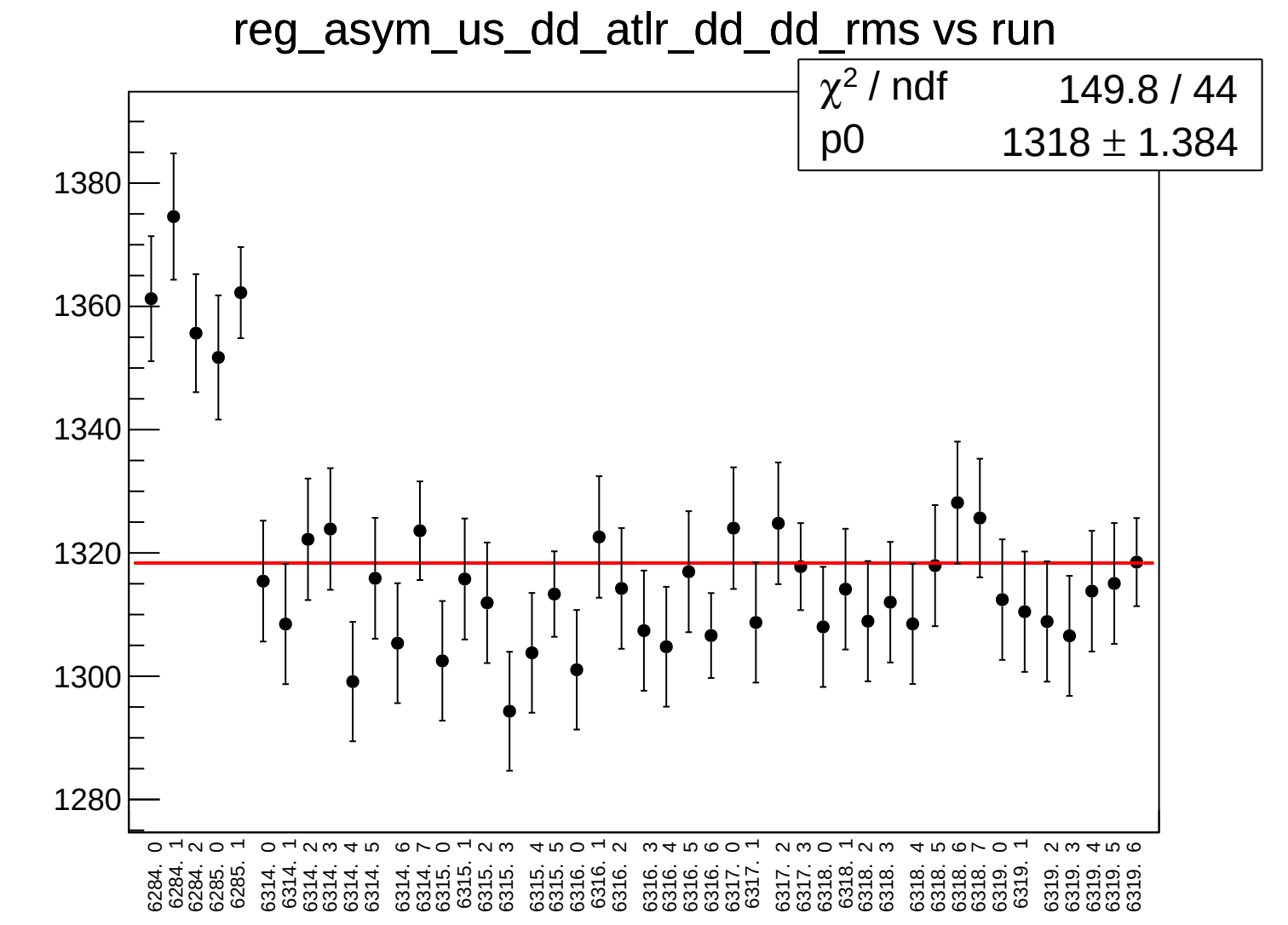
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 84.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03317
Std Dev 0.9767
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.8 / 44
p0 1318 ± 1.384
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 2
6316. 3
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6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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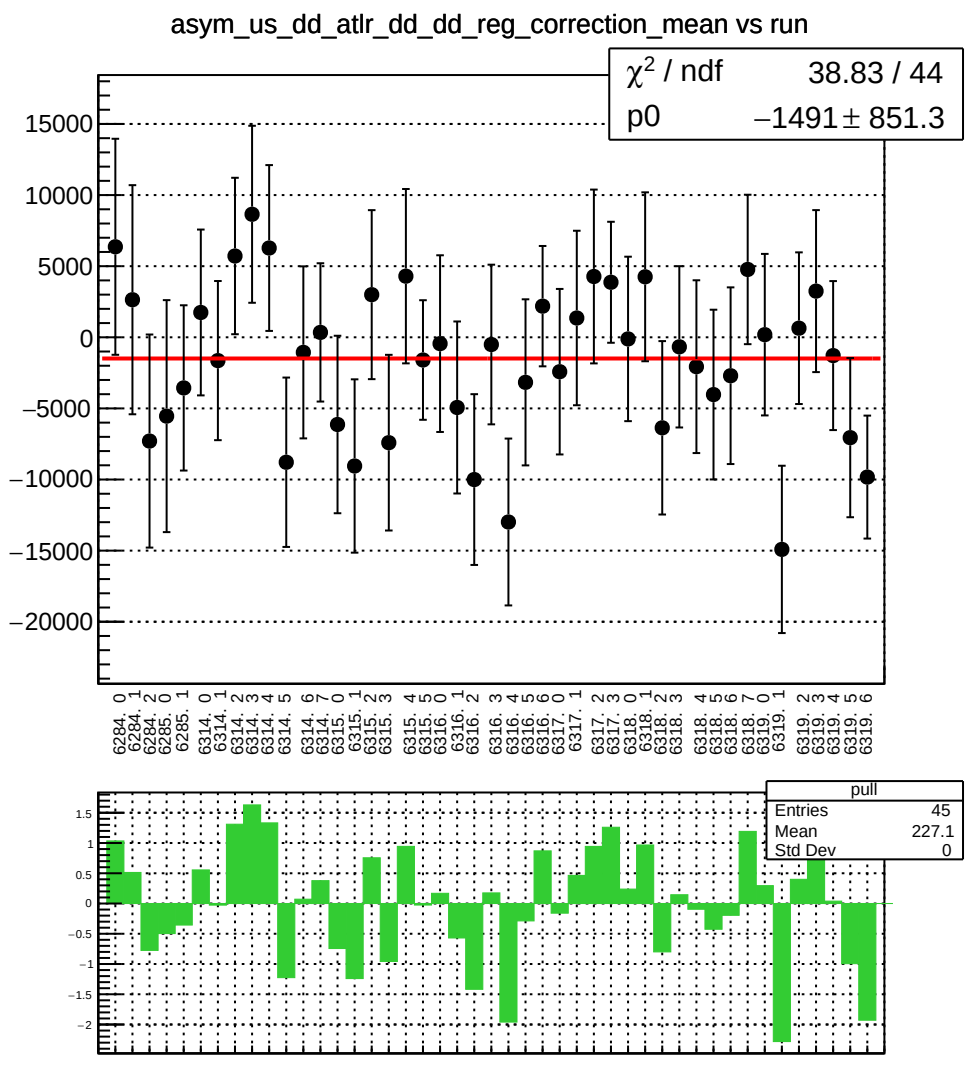
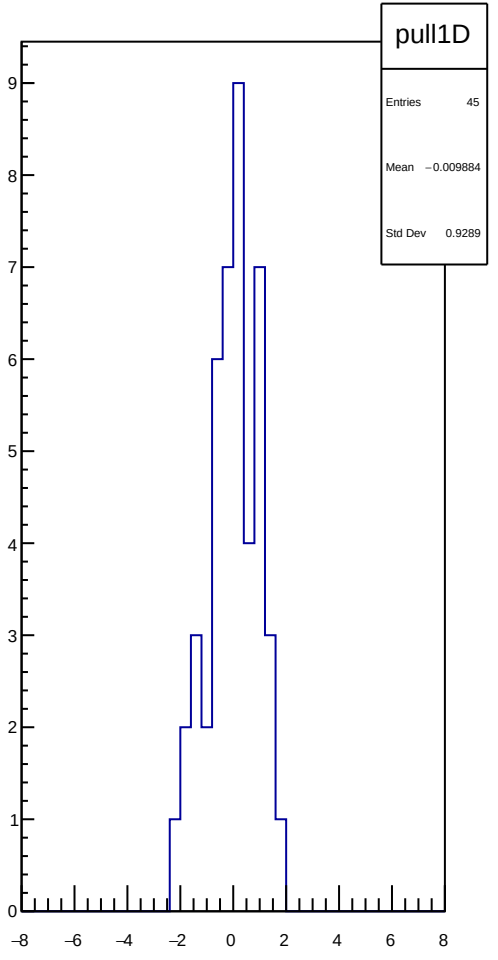
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 38.83 / 44
p0 −1491 ± 851.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 227.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.009884
Std Dev 0.9289
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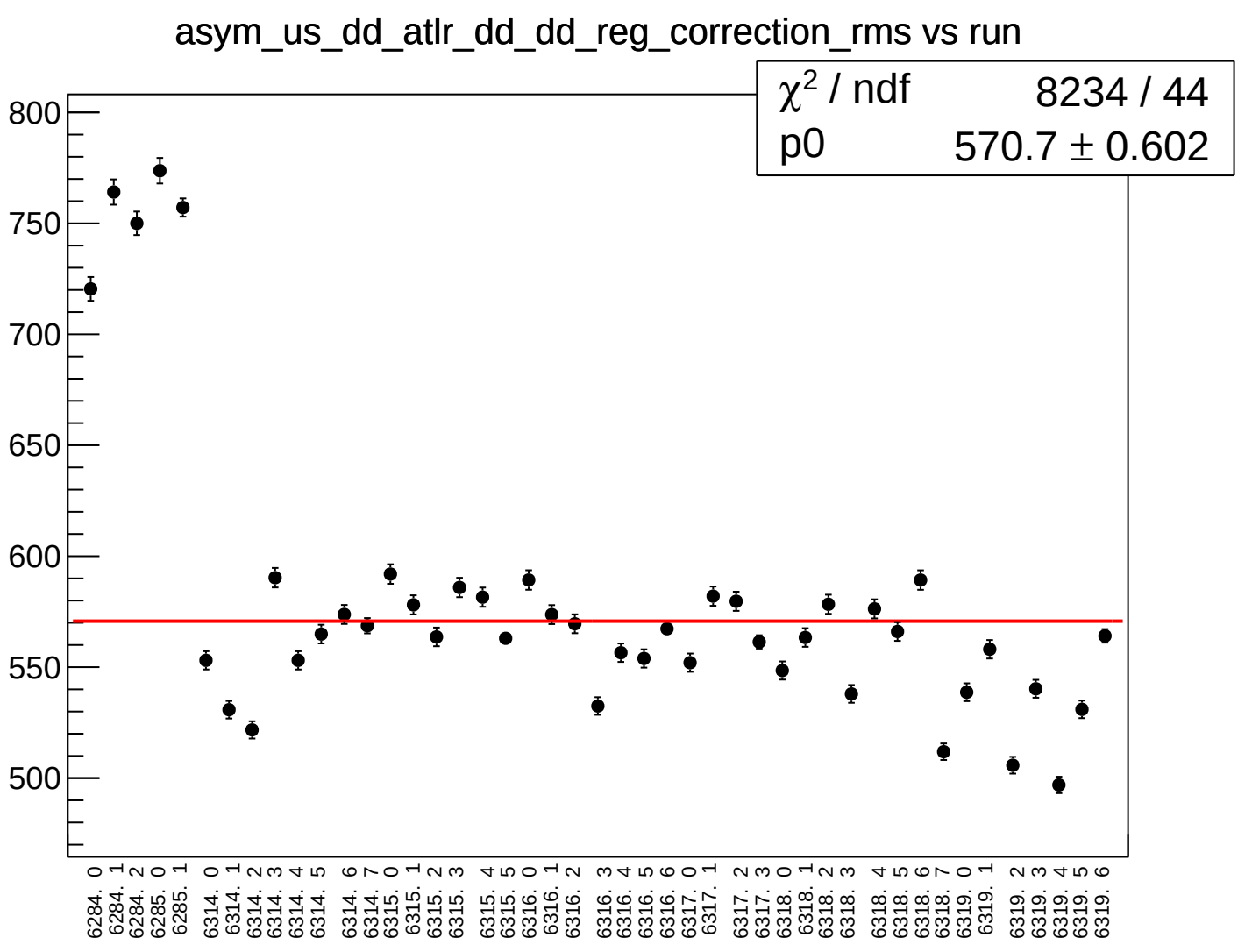
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 8234 / 44
p0 570.7 ± 0.602
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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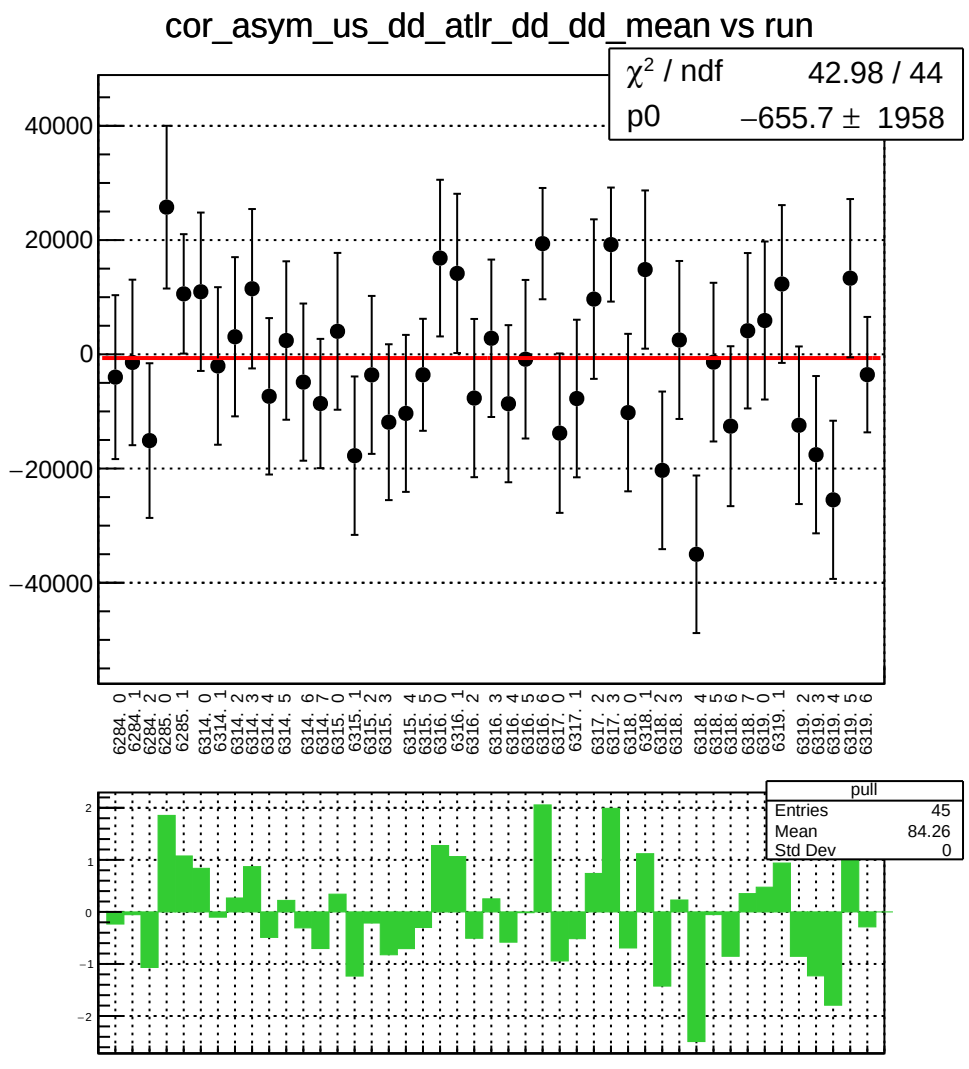
6319. 5
6319. 6


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.98 / 44
p0 −655.7 ± 1958
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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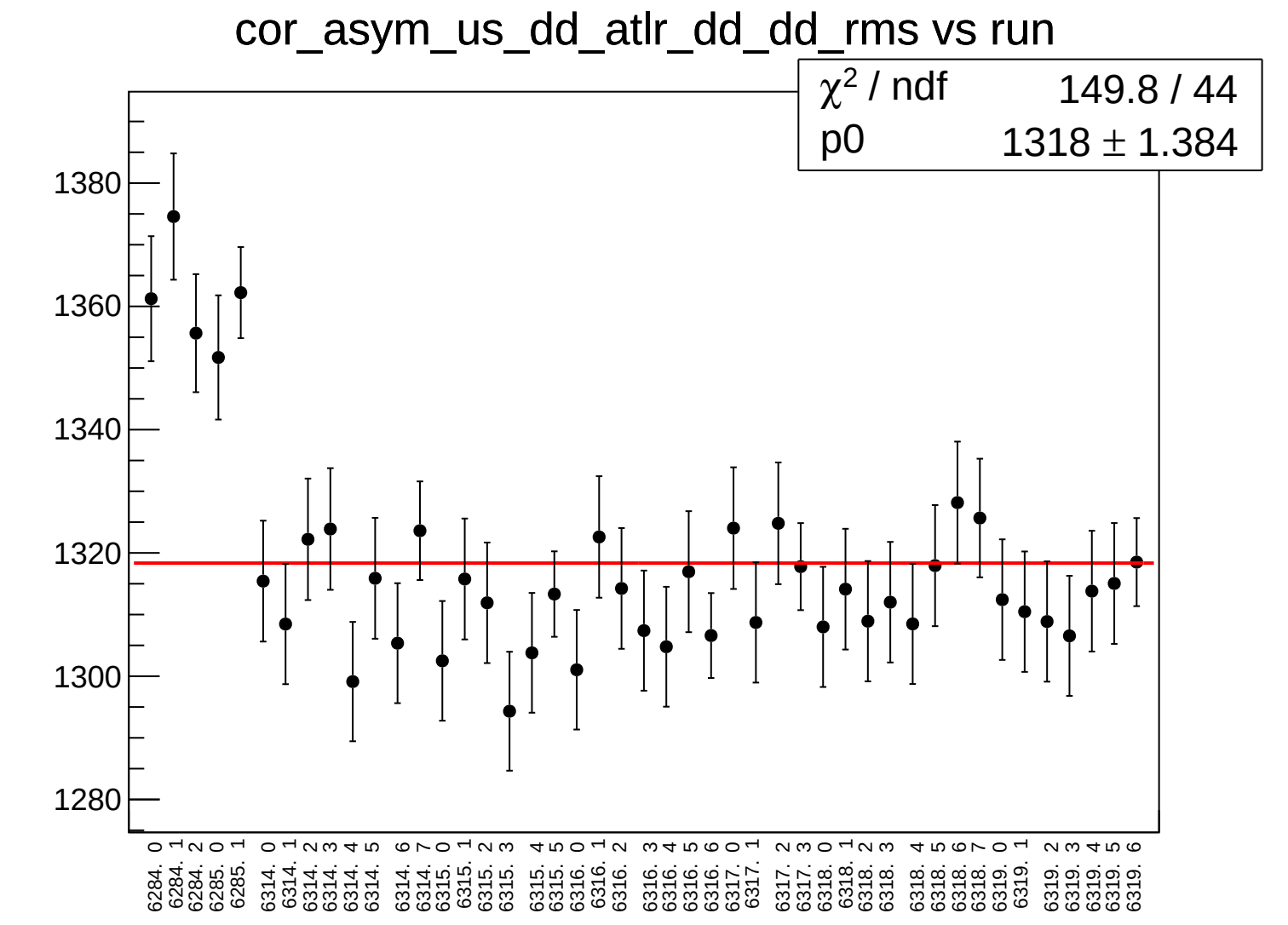
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 84.26
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03317
Std Dev 0.9767
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.8 / 44
p0 1318 ± 1.384
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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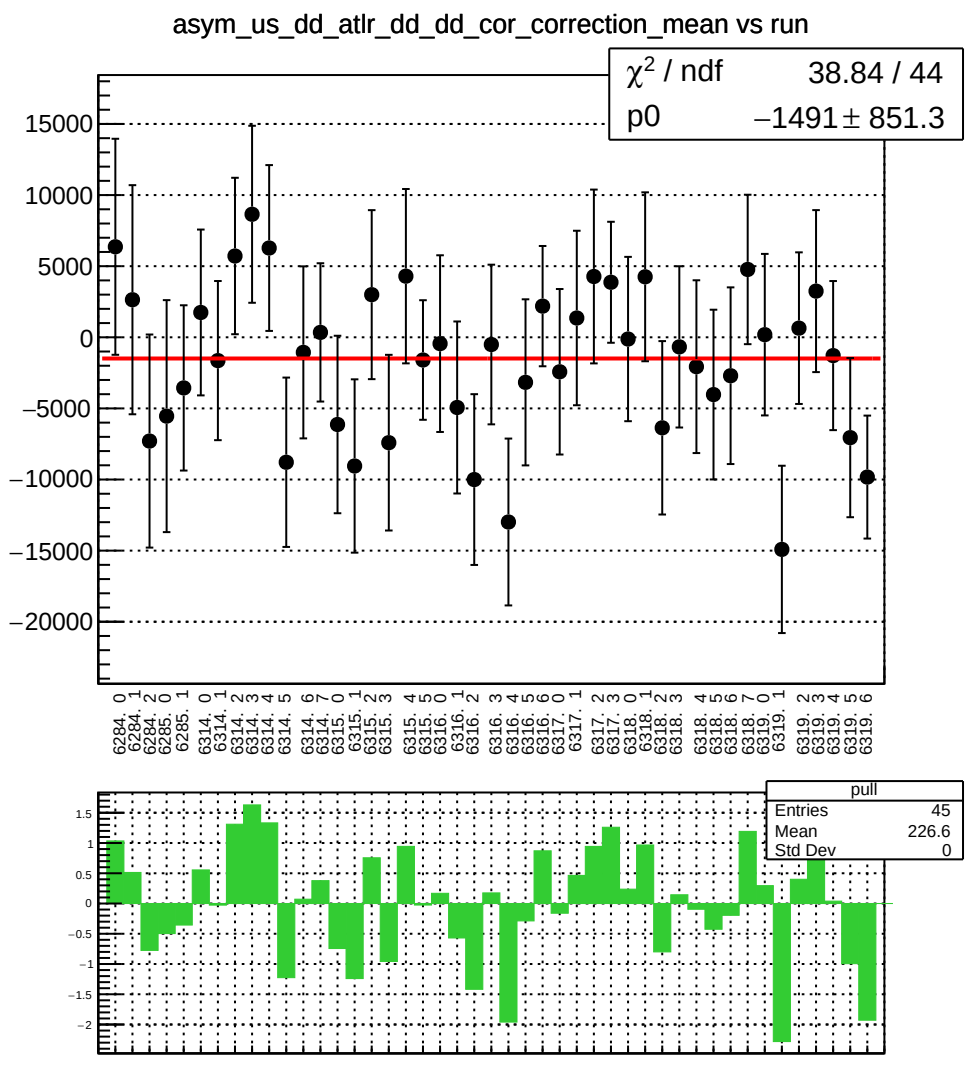
6319. 6


asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 38.84 / 44
p0 −1491 ± 851.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
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6316. 4
6316. 5
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6318. 0
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6318. 6
6318. 7
6319. 0
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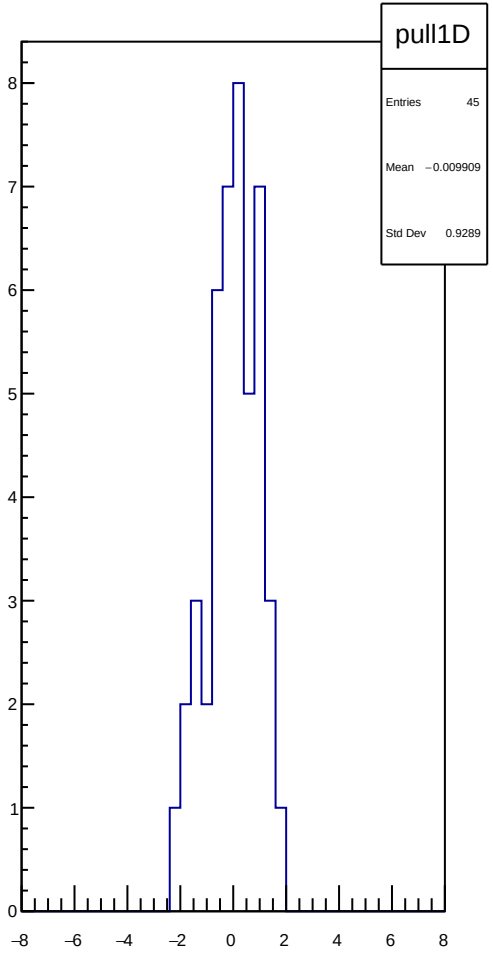
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 226.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.009909
Std Dev 0.9289
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7
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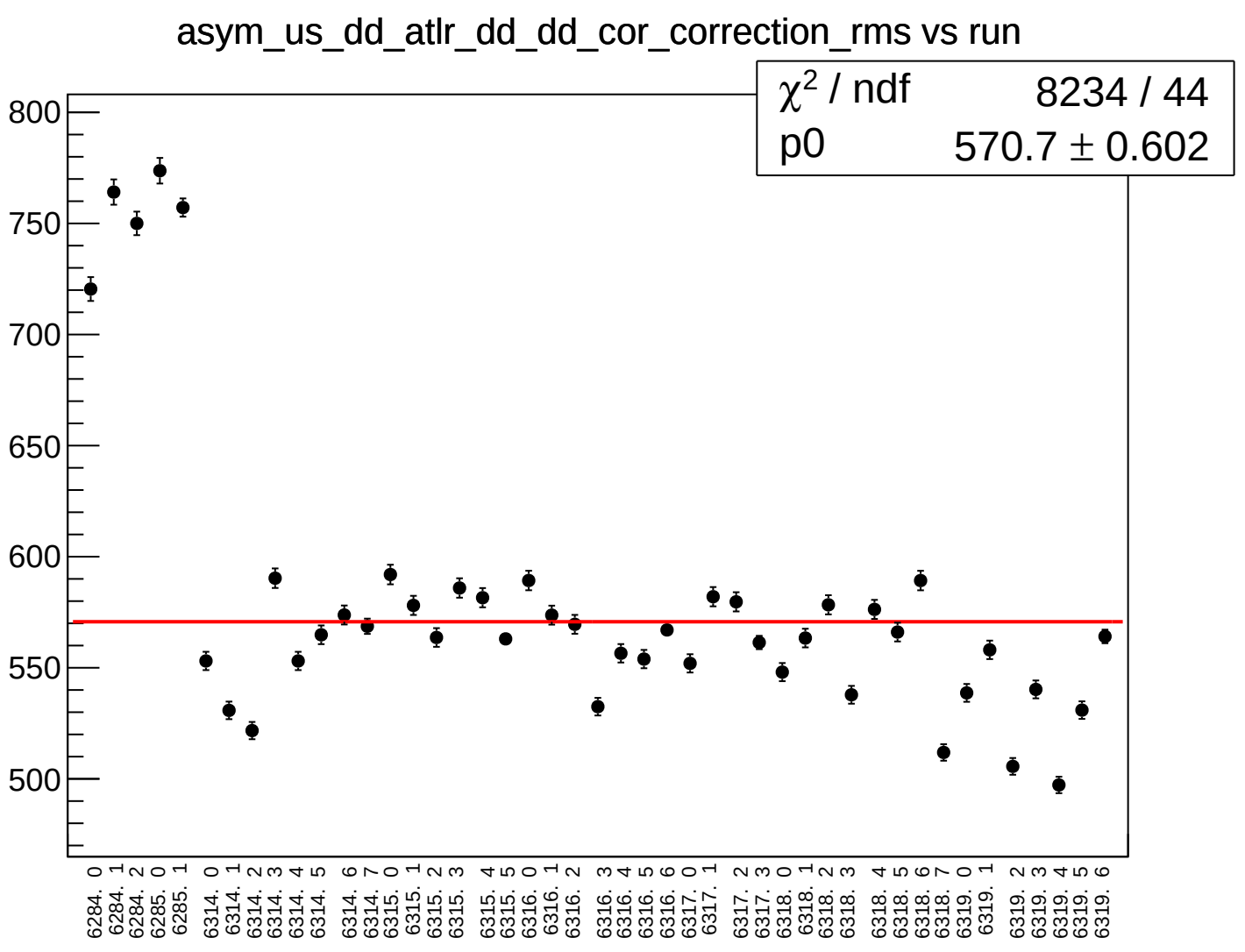
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 8234 / 44
p0 570.7 ± 0.602
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
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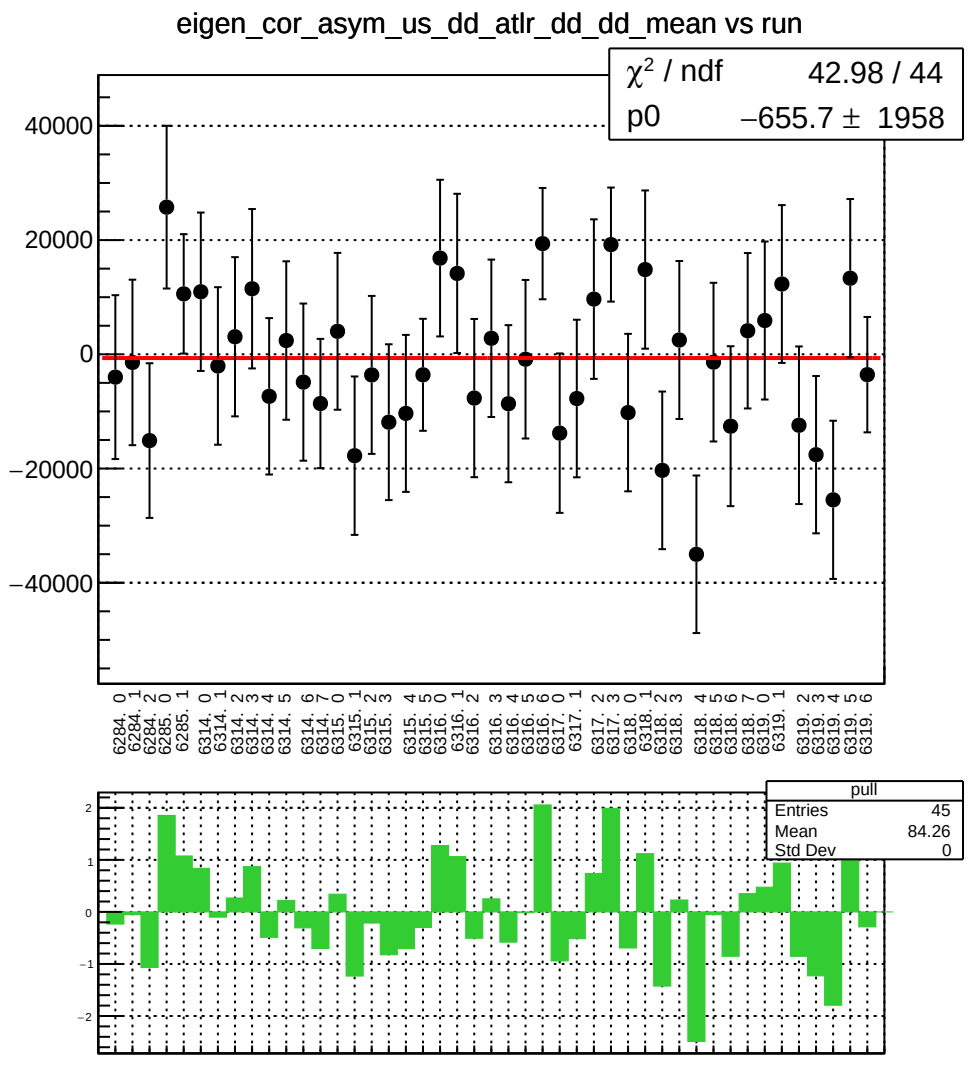
6319. 6


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.98 / 44
p0 −655.7 ± 1958
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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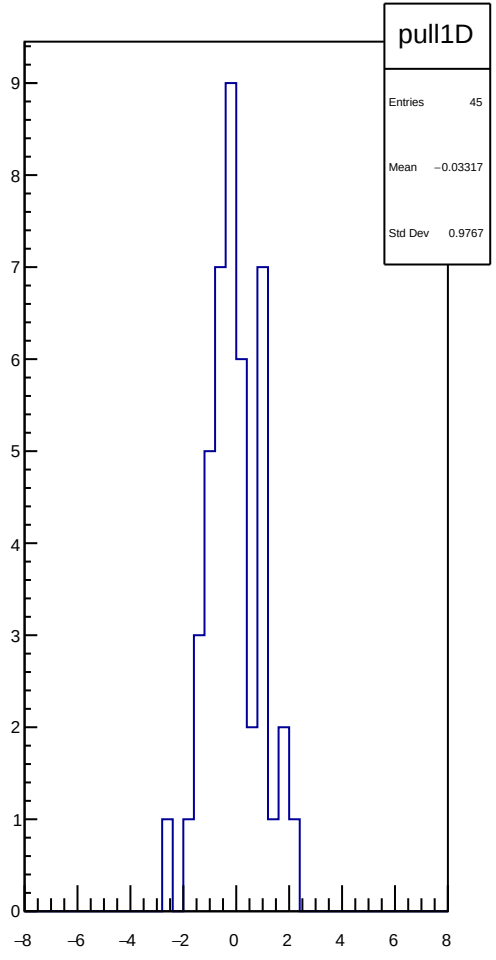
6319. 5
6319. 6
pull
Entries 45
Mean 84.26
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03317
Std Dev 0.9767
9
8
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5
4
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2
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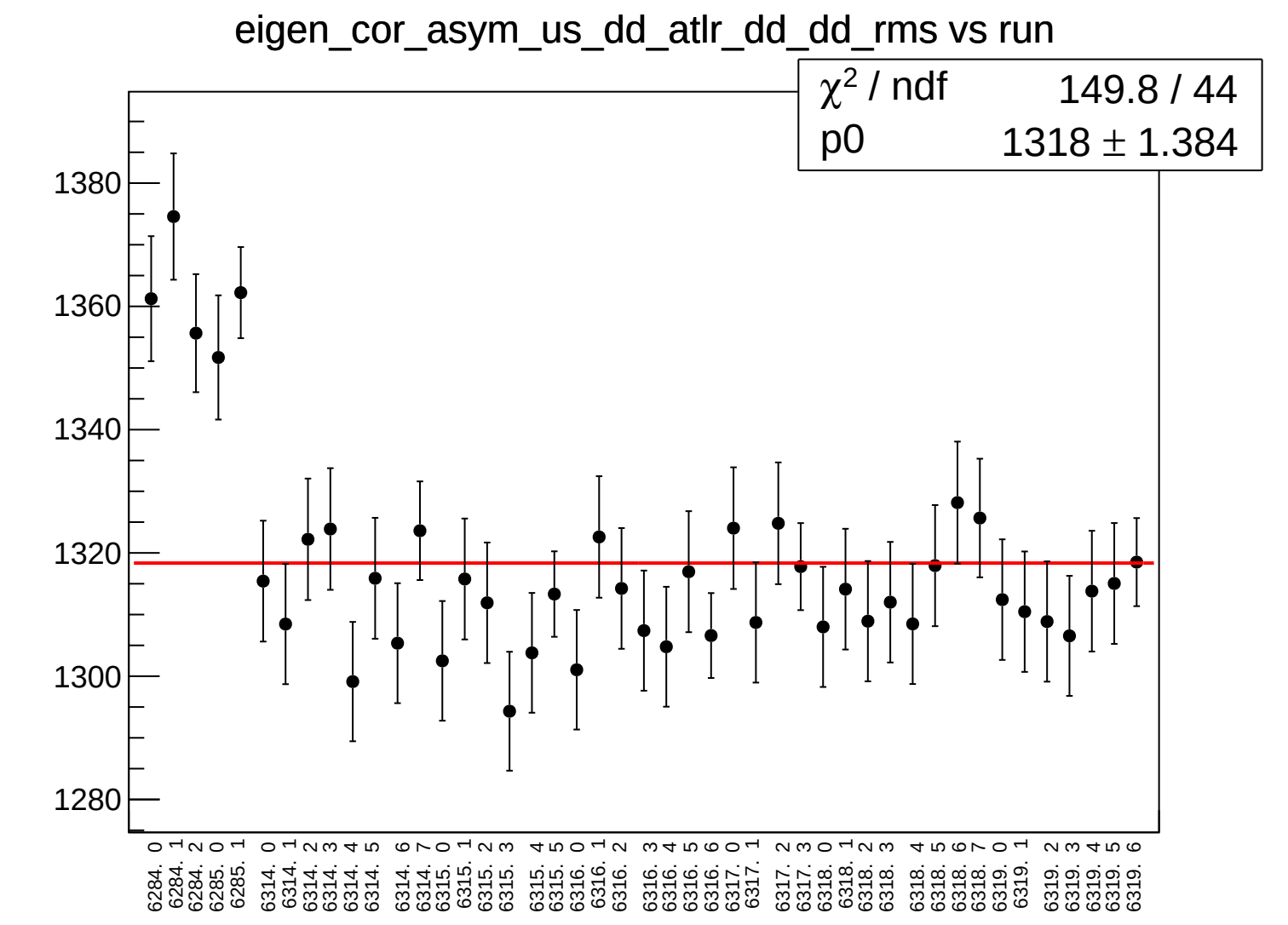
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.8 / 44
p0 1318 ± 1.384
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
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6317. 0
6317. 1
6317. 2
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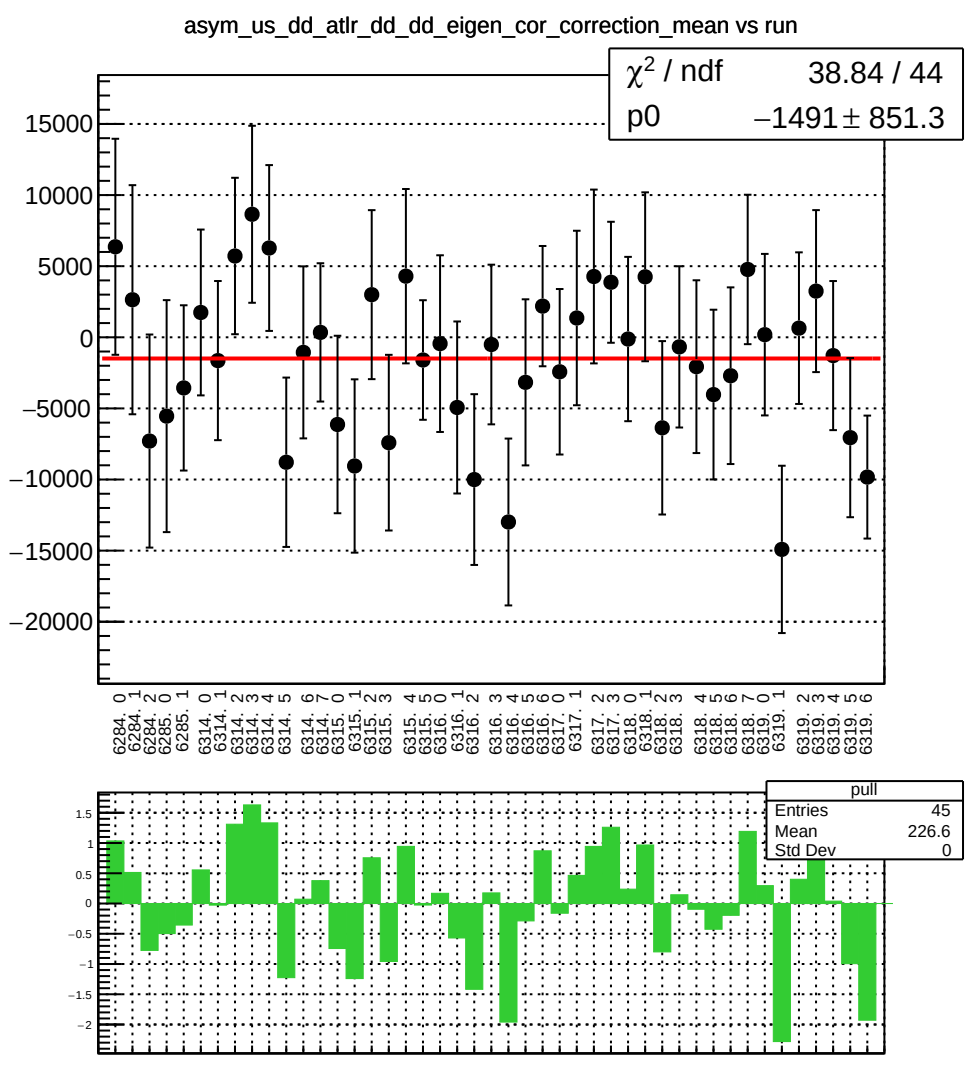
asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.84 / 44
p0 −1491 ± 851.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6316. 0
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6316. 2
6316. 3
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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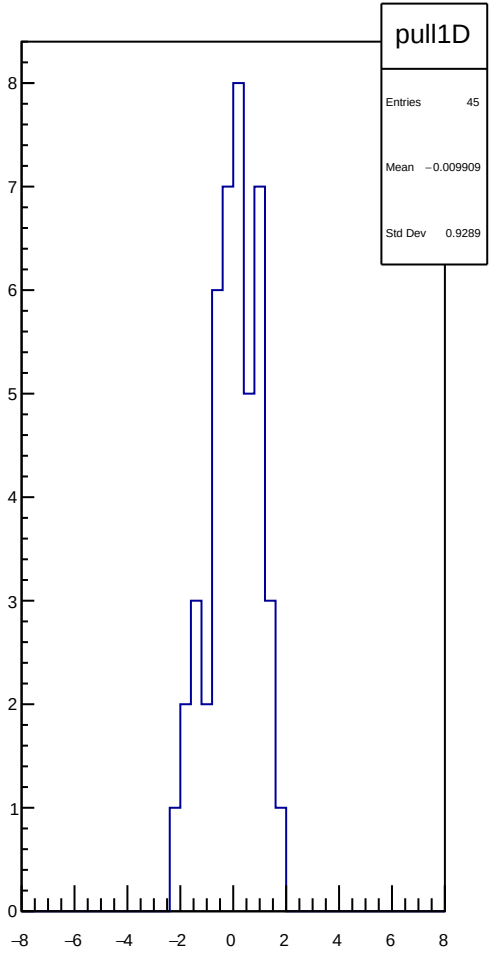
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 226.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.009909
Std Dev 0.9289
8
7
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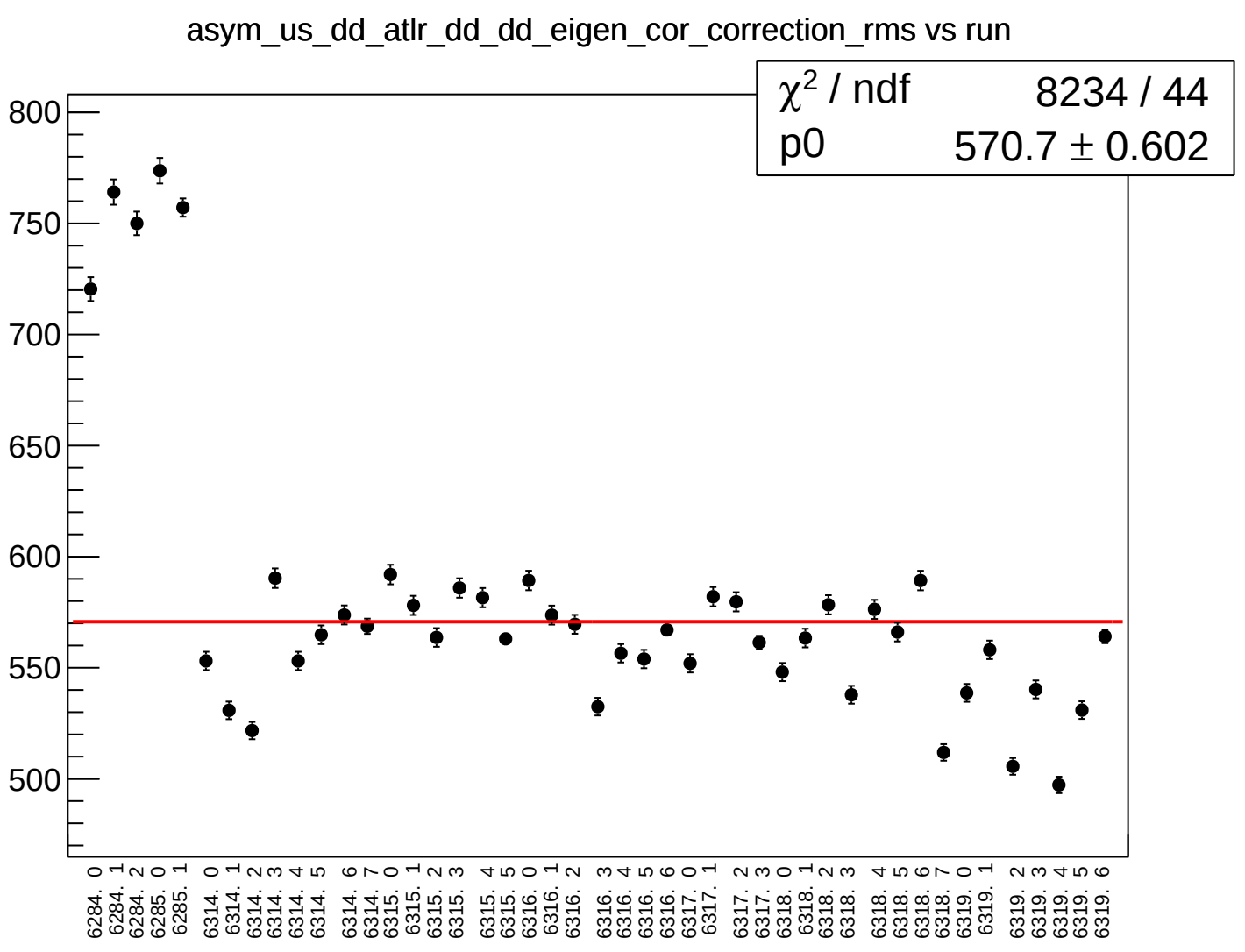
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8234 / 44
p0 570.7 ± 0.602
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
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6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
6318. 3
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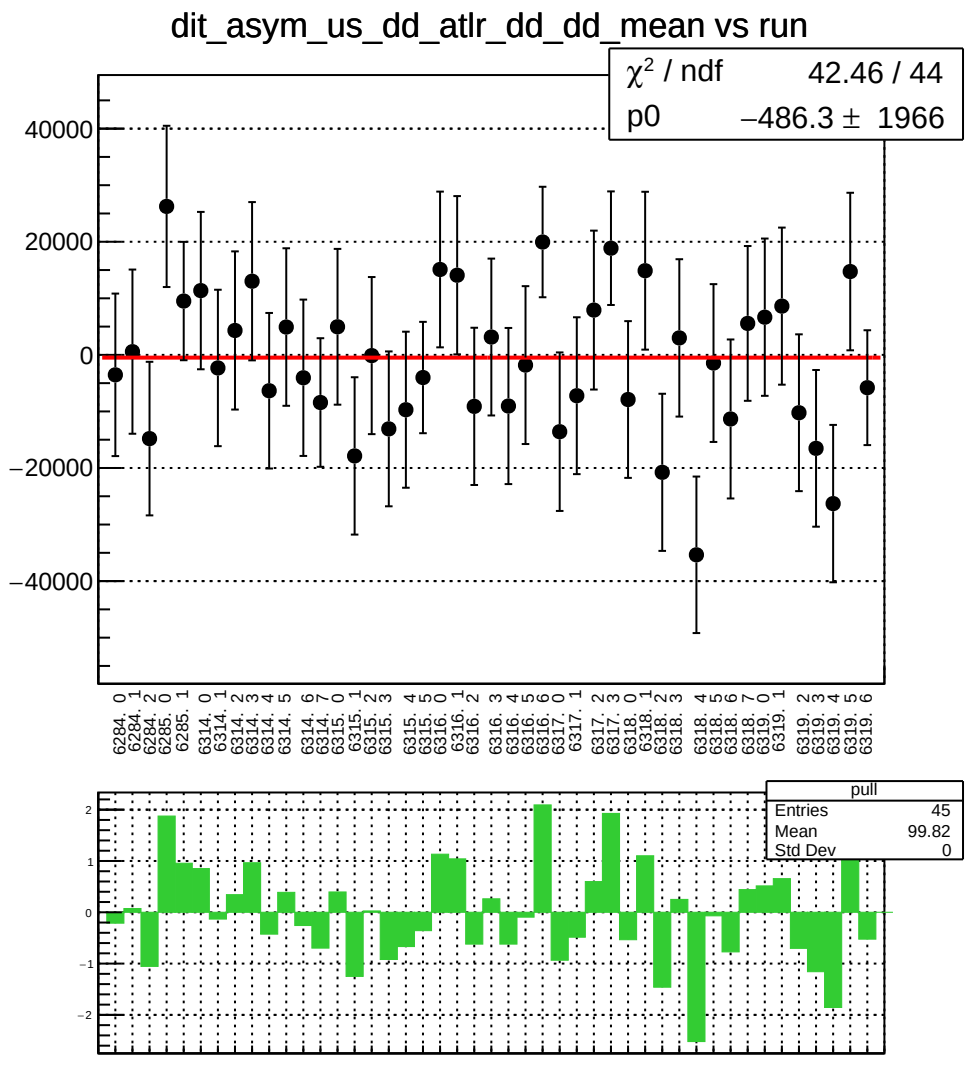
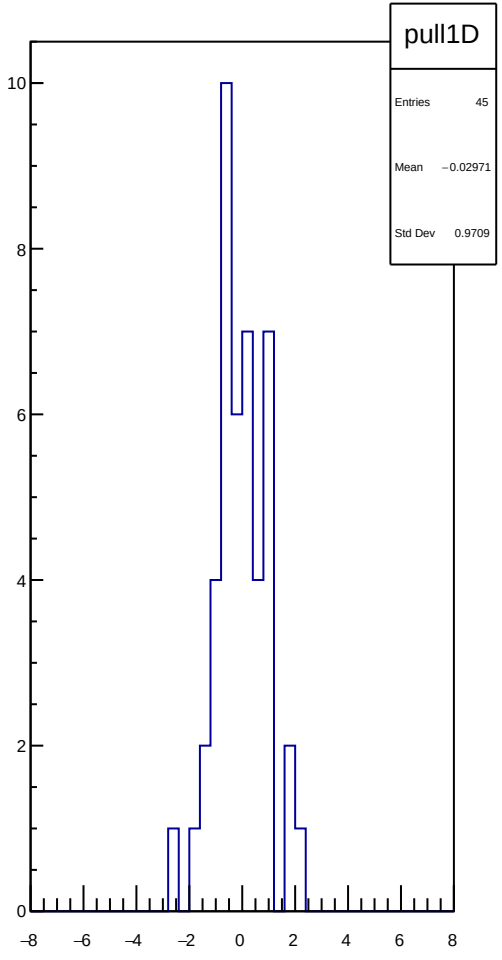
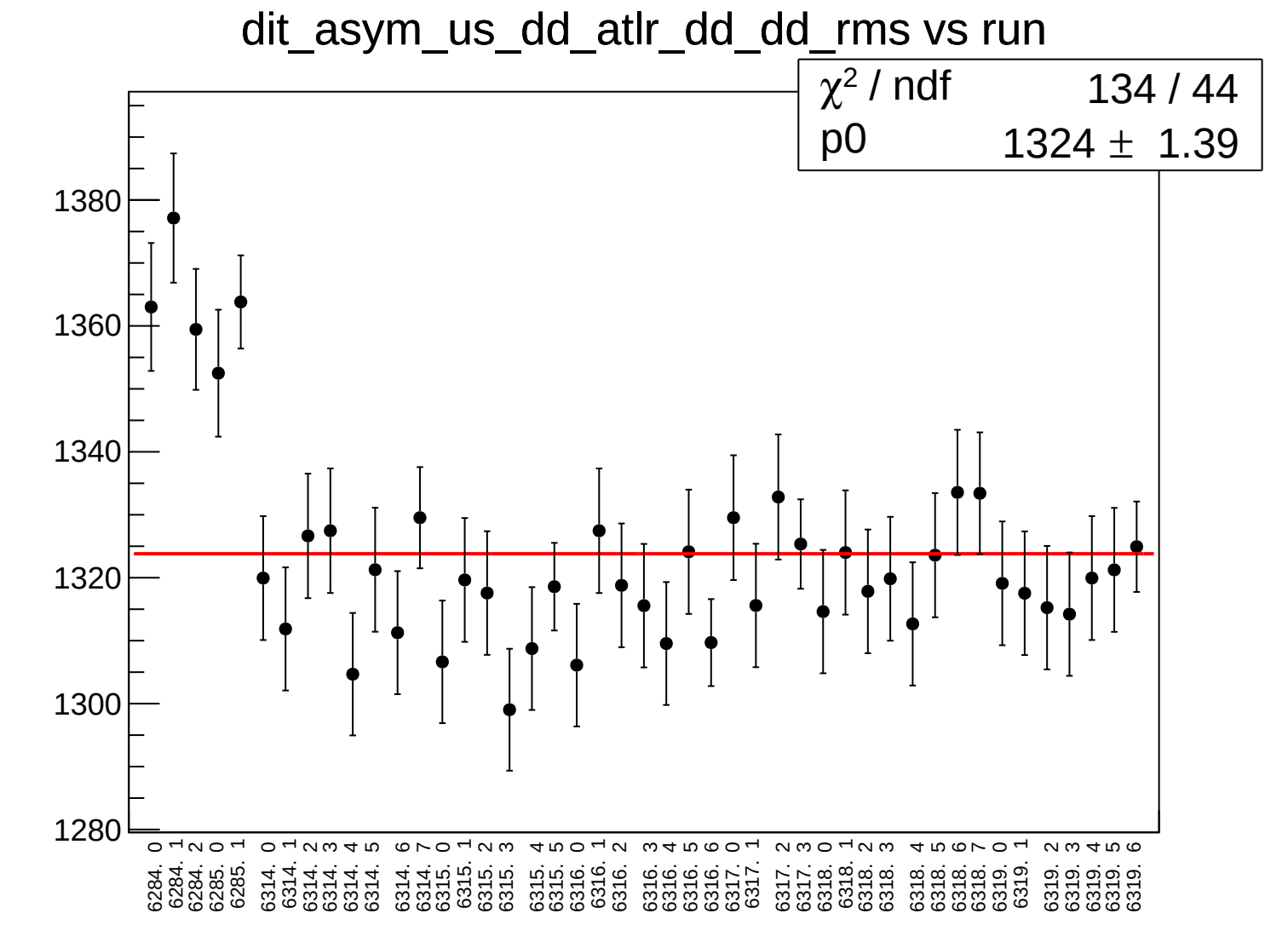
6319. 6


dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.46 / 44
p0 −486.3 ± 1966
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 99.82
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02971
Std Dev 0.9709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 134 / 44
p0 1324 ± 1.39
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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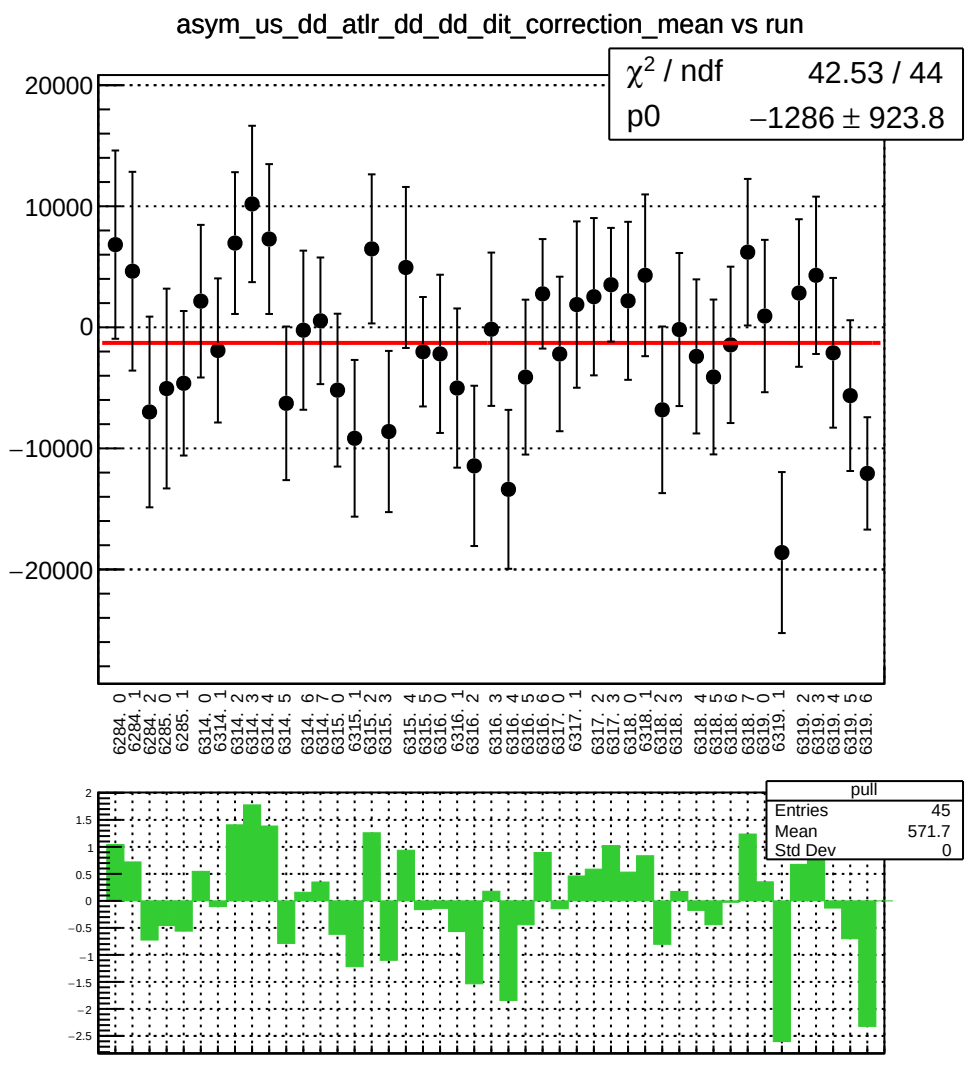
asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 42.53 / 44
p0 −1286 ± 923.8
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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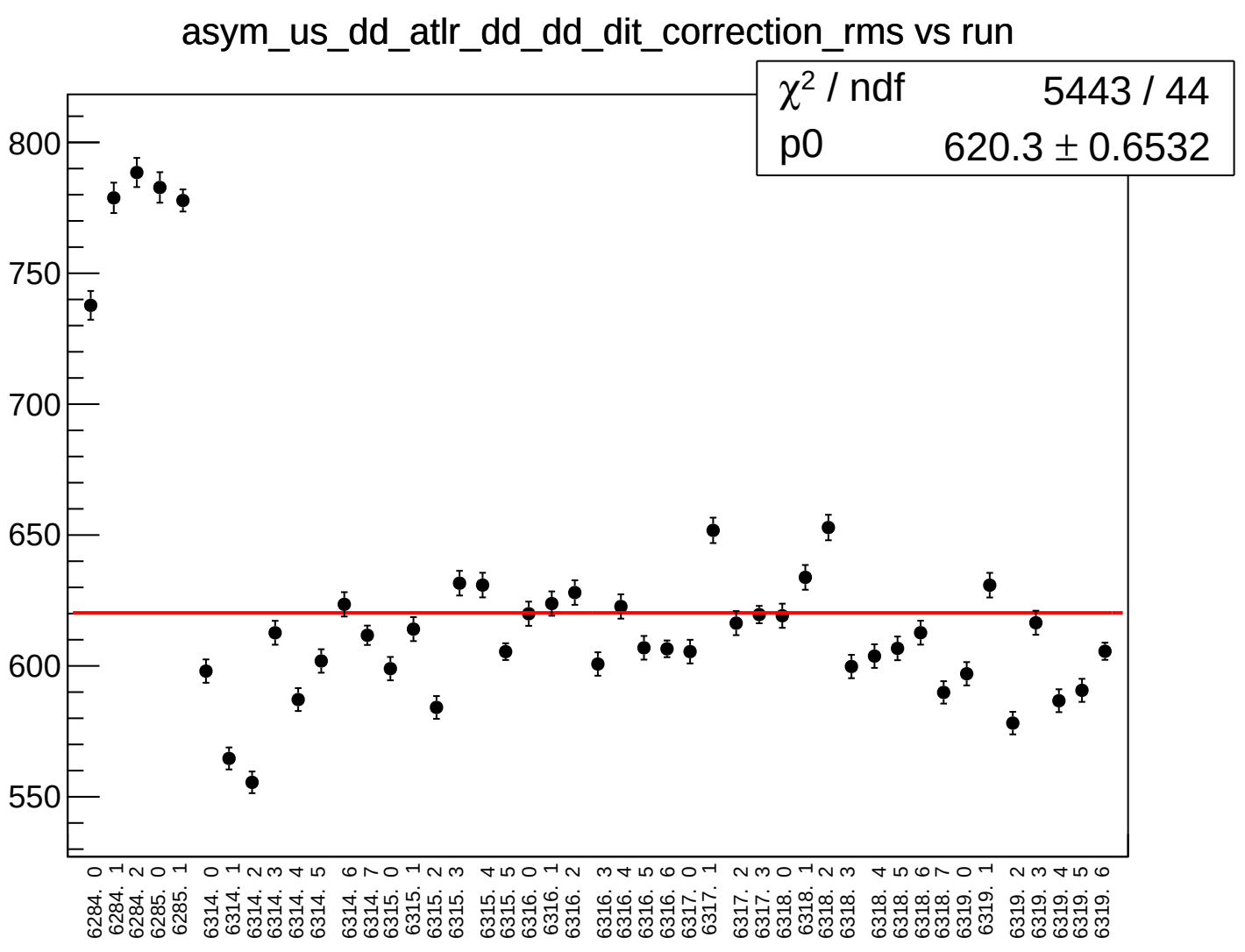
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 571.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.004465
Std Dev 0.9721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5443 / 44
p0 620.3 ± 0.6532
800
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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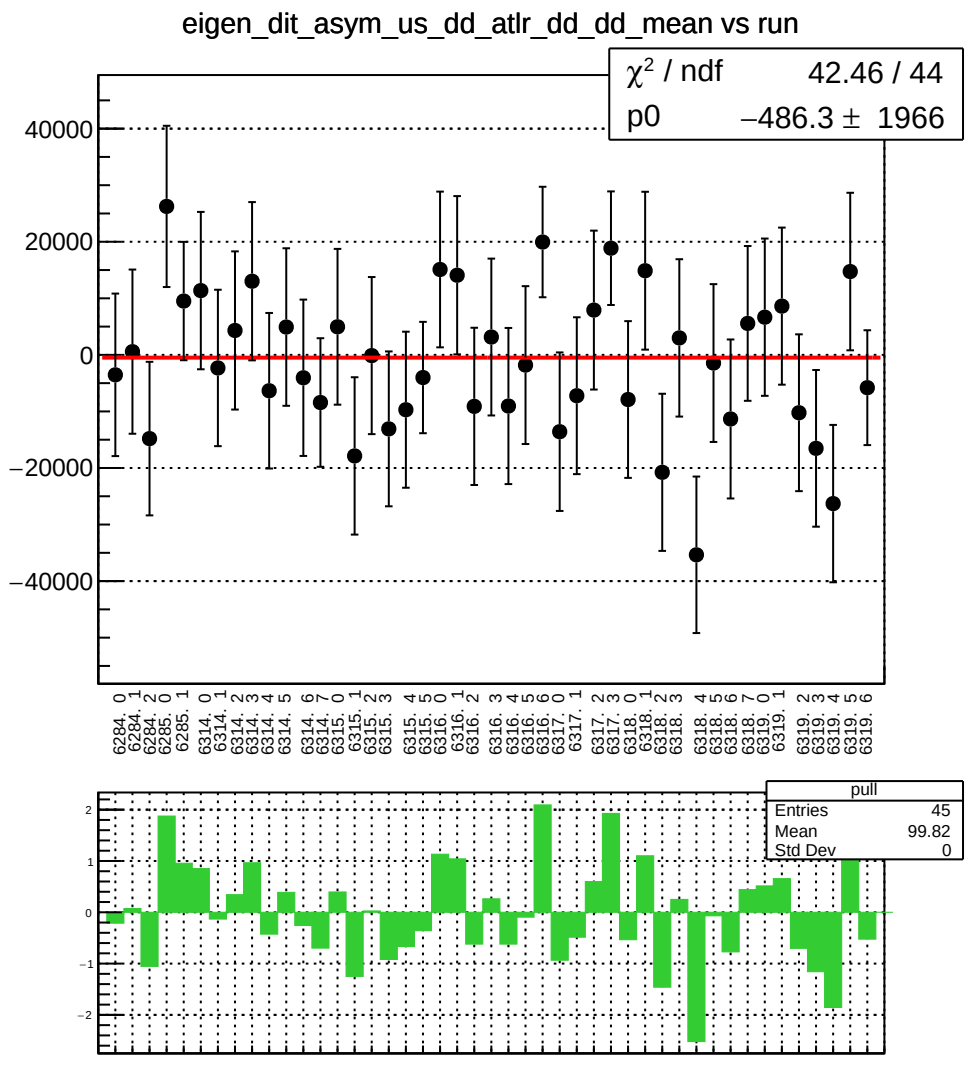
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.46 / 44
p0 −486.3 ± 1966
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 7
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6317. 3
6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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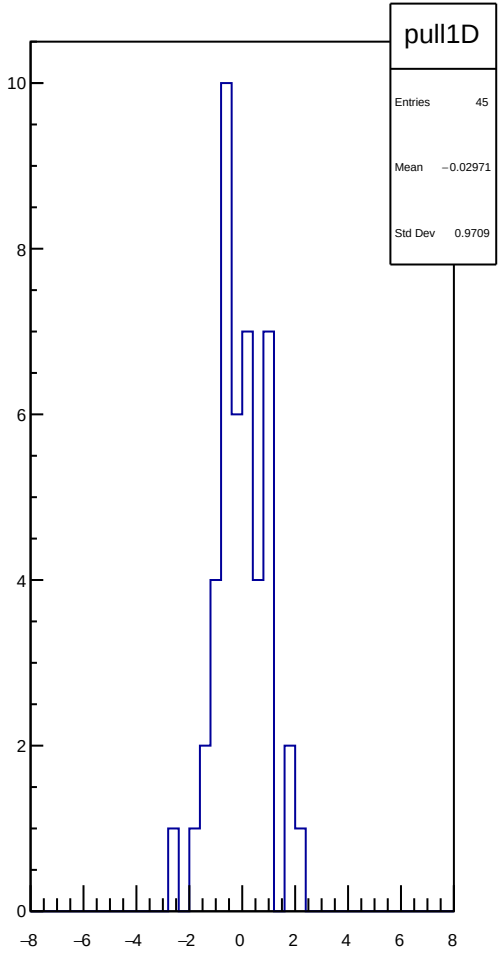
6319. 5
6319. 6
pull
Entries 45
Mean 99.82
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02971
Std Dev 0.9709
10
8
6
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2
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−8
−6
−4
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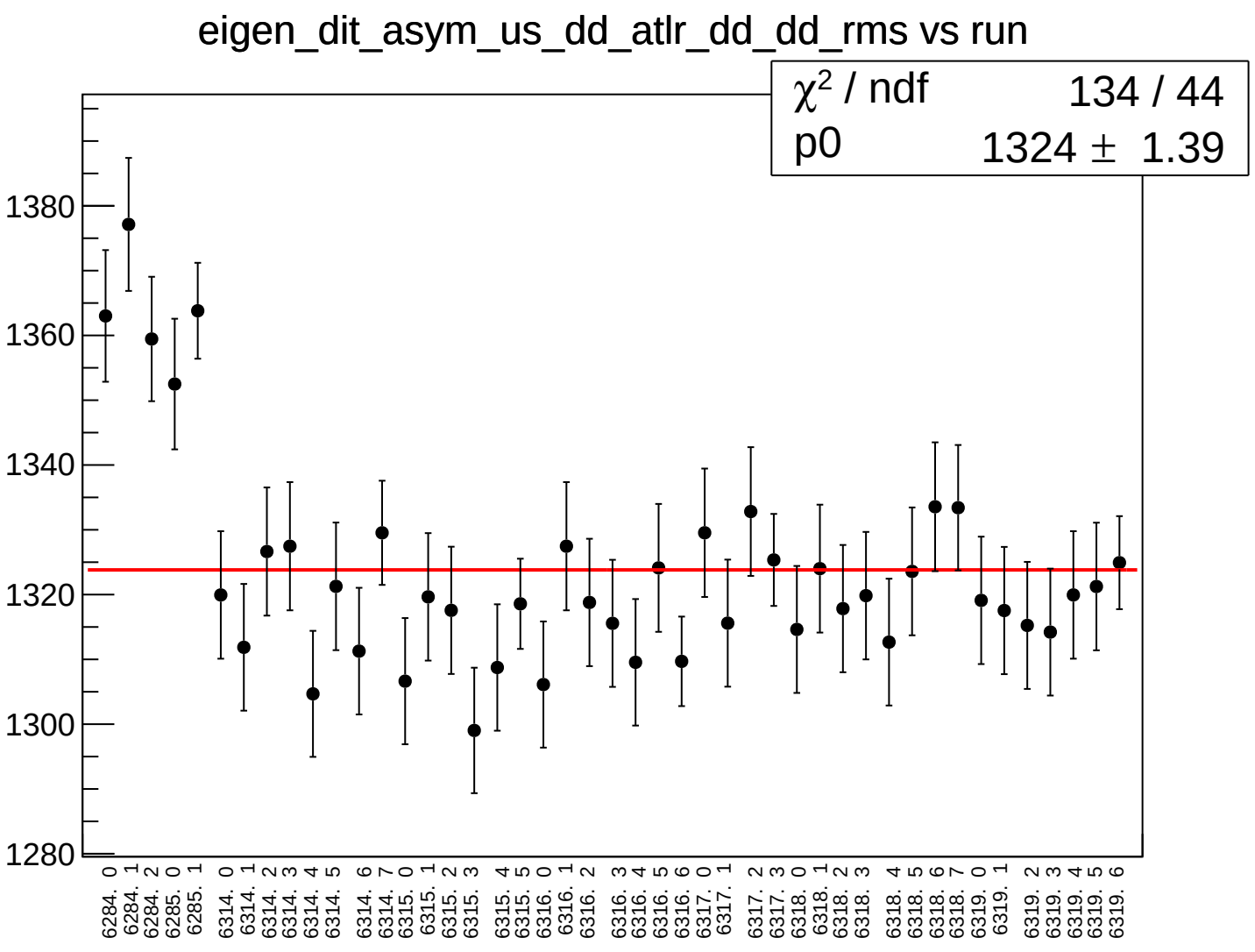
2
4
6
8


eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 134 / 44
p0 1324 ± 1.39
1380
1360
1340
1320
1300
1280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
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6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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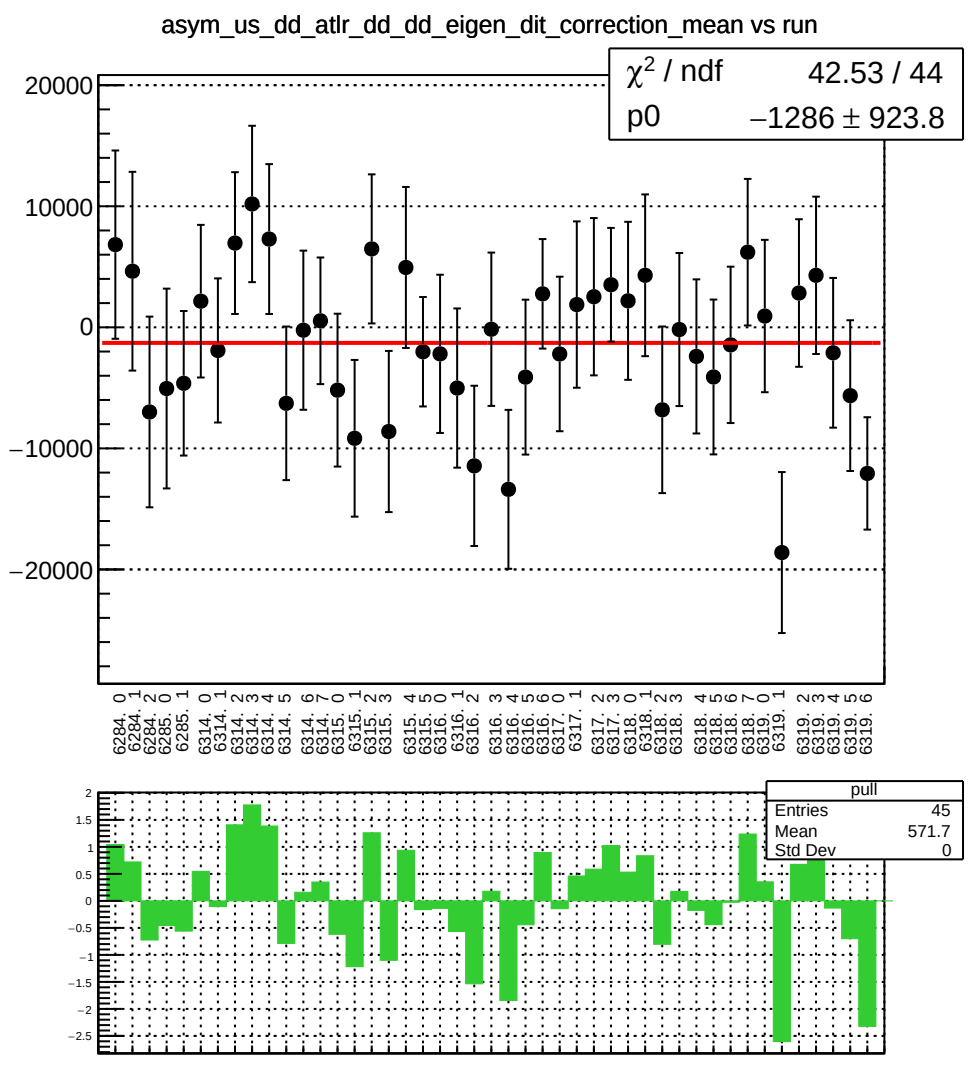
6319. 6


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.53 / 44
p0 −1286 ± 923.8
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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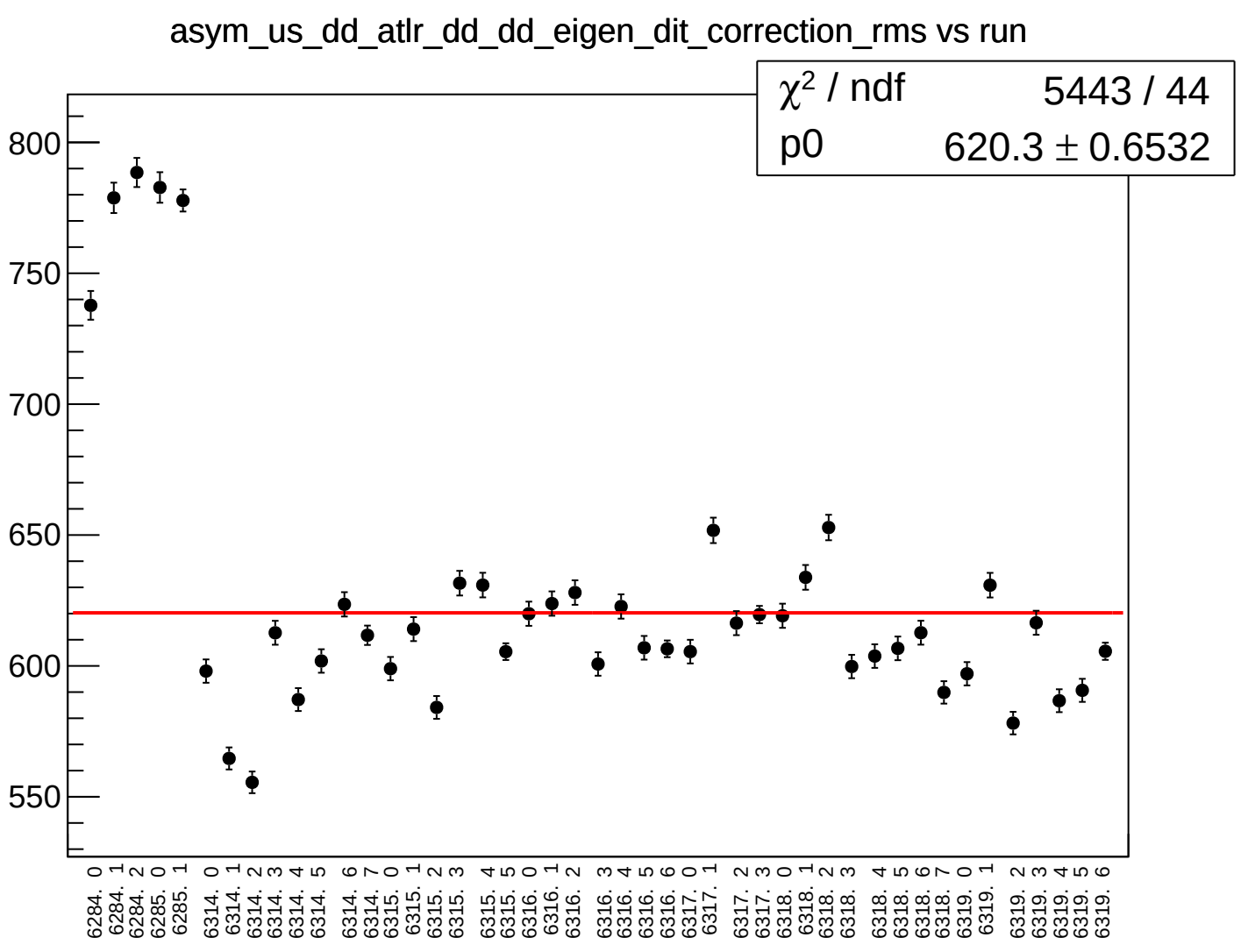
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 571.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.004465
Std Dev 0.9721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5443 / 44
p0 620.3 ± 0.6532
800
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
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6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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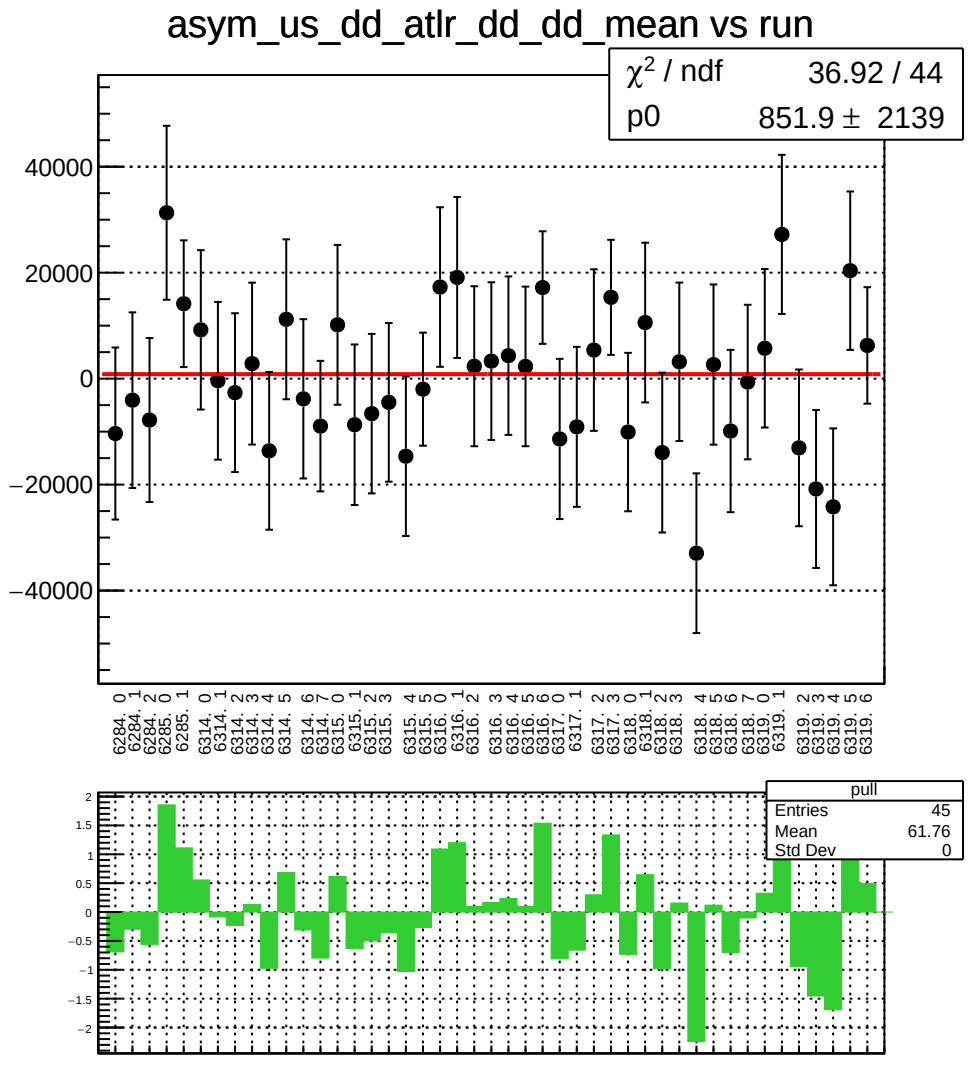
6319. 6


asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 36.92 / 44
p0 851.9 ± 2139
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
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6316. 0
6316. 1
6316. 2
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6316. 6
6317. 0
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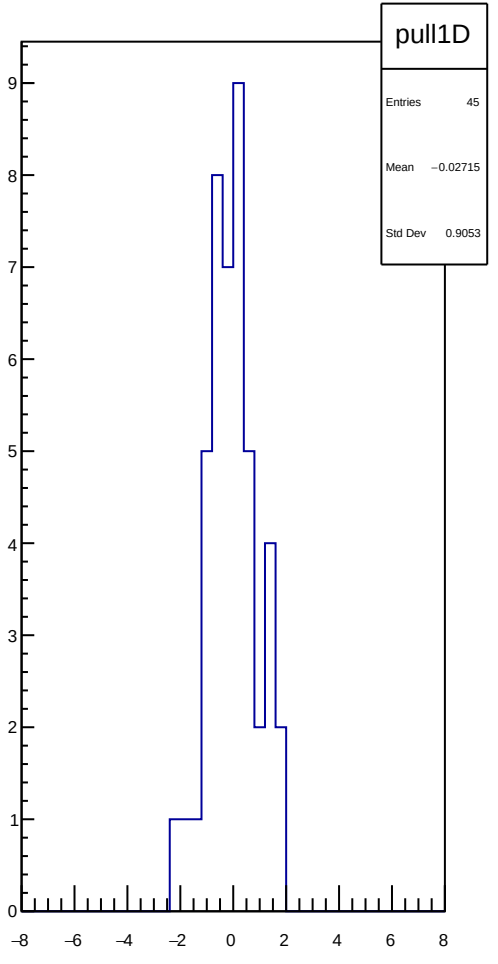
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 61.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02715
Std Dev 0.9053
9
8
7
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5
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3
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1
0
−8
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−4
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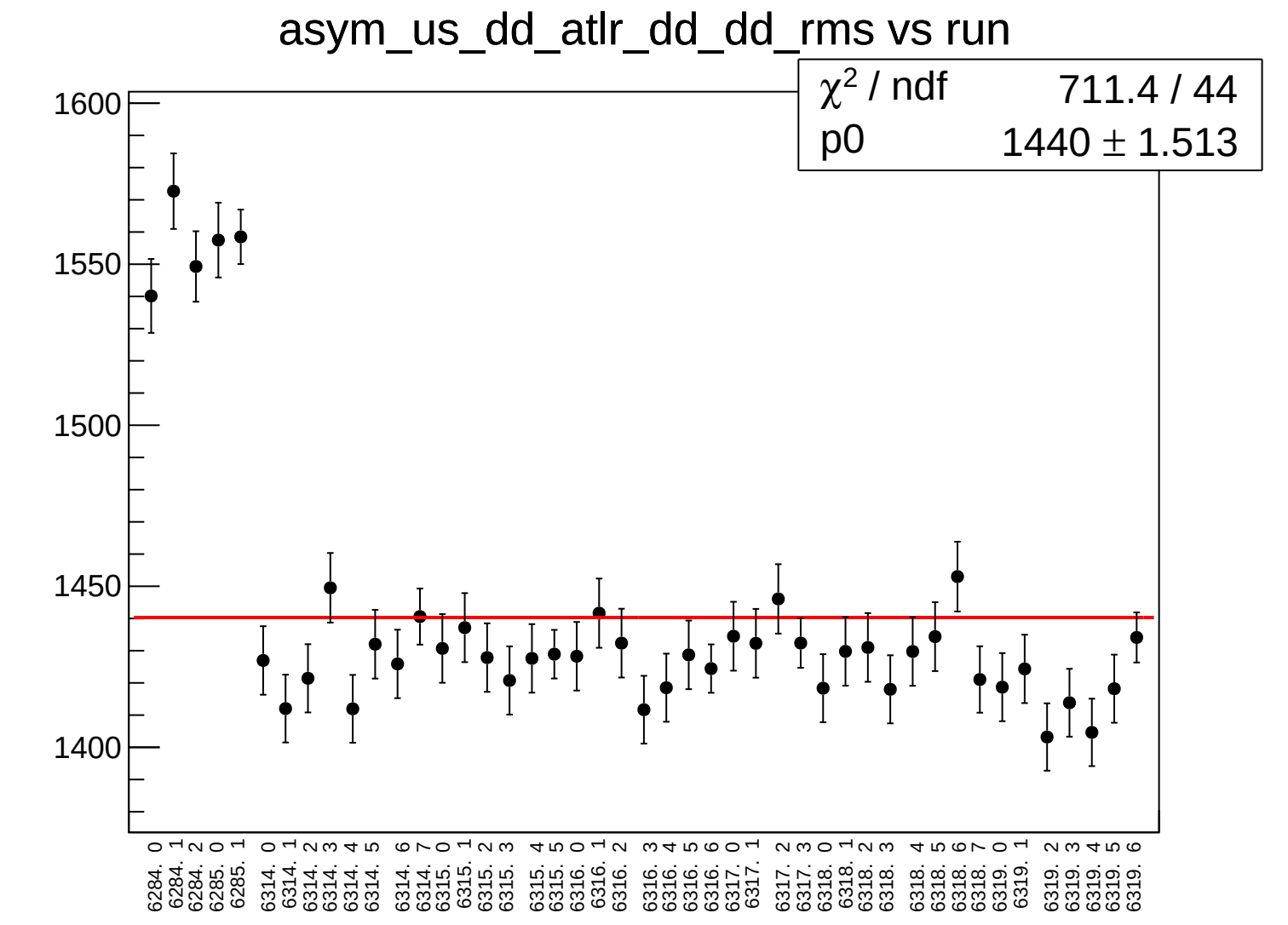
2
4
6
8


asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 711.4 / 44
p0 1440 ± 1.513
1600
1550
1500
1450
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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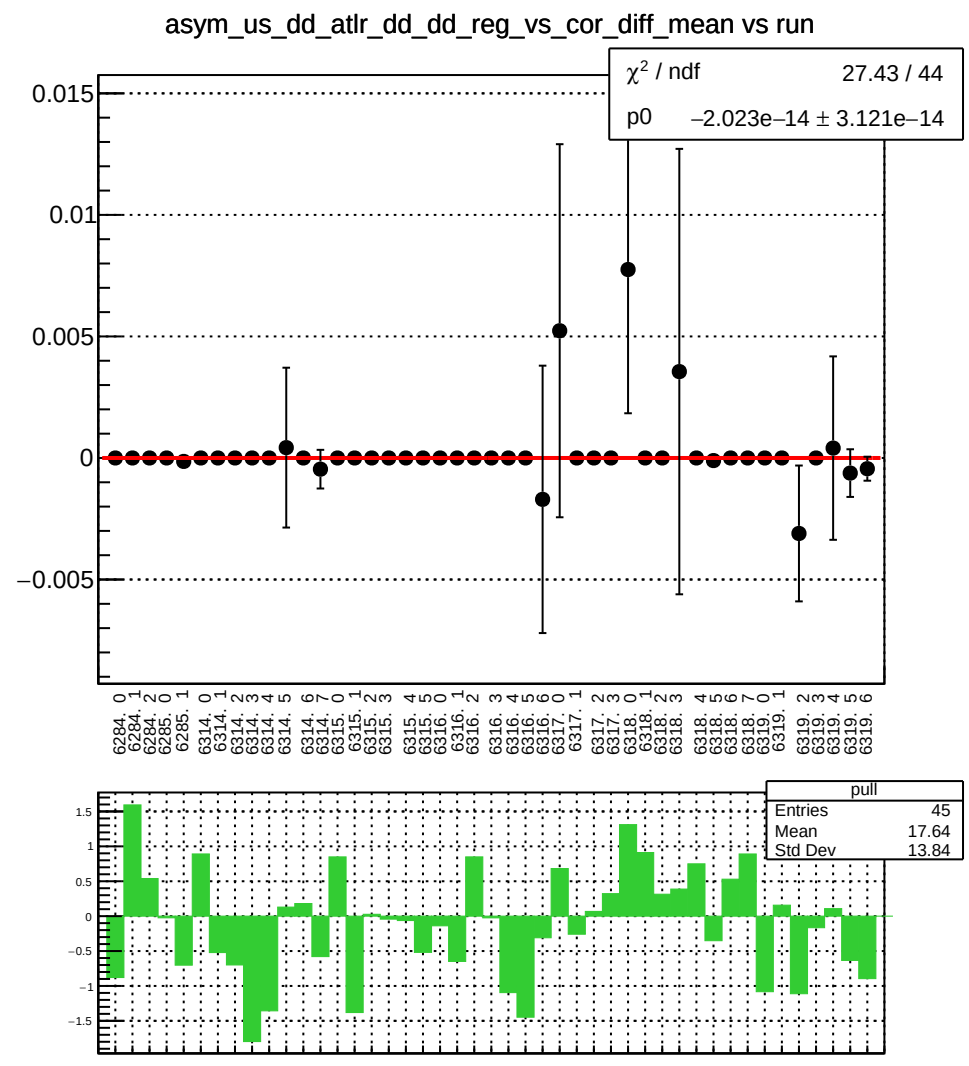
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.43 / 44
p0 −2.023e−14 ± 3.121e−14
0.015
0.01
0.005
0
−0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6316. 0
6316. 1
6316. 2
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6316. 6
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6317. 3
6318. 0
6318. 1
6318. 2
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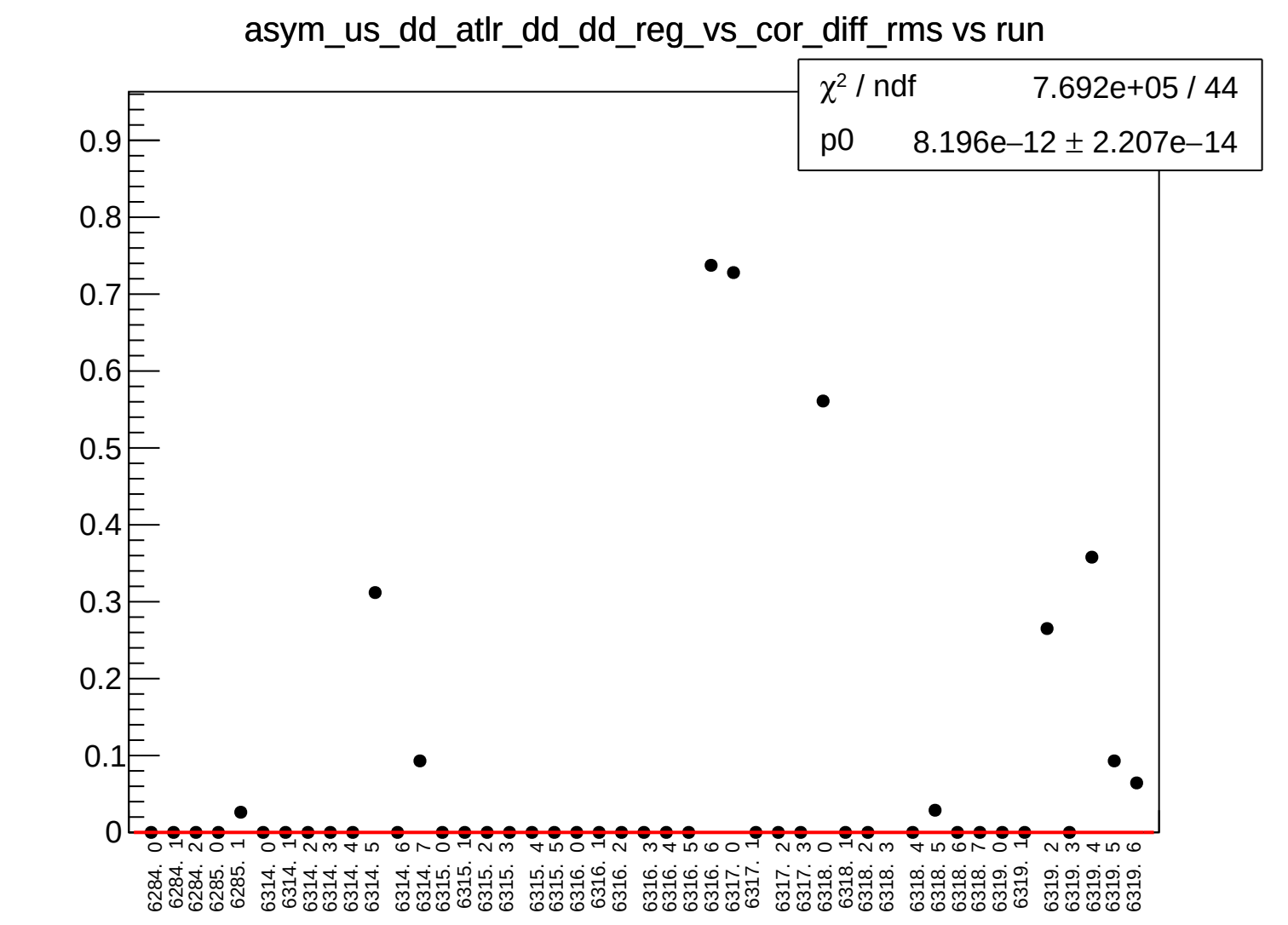
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.64
Std Dev 13.84
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.1163
Std Dev 0.7721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.692e+05 / 44
p0 8.196e−12 ± 2.207e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6315. 1
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6315. 5
6316. 0
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6316. 2
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6316. 5
6316. 6
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6317. 1
6317. 2
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6318. 3
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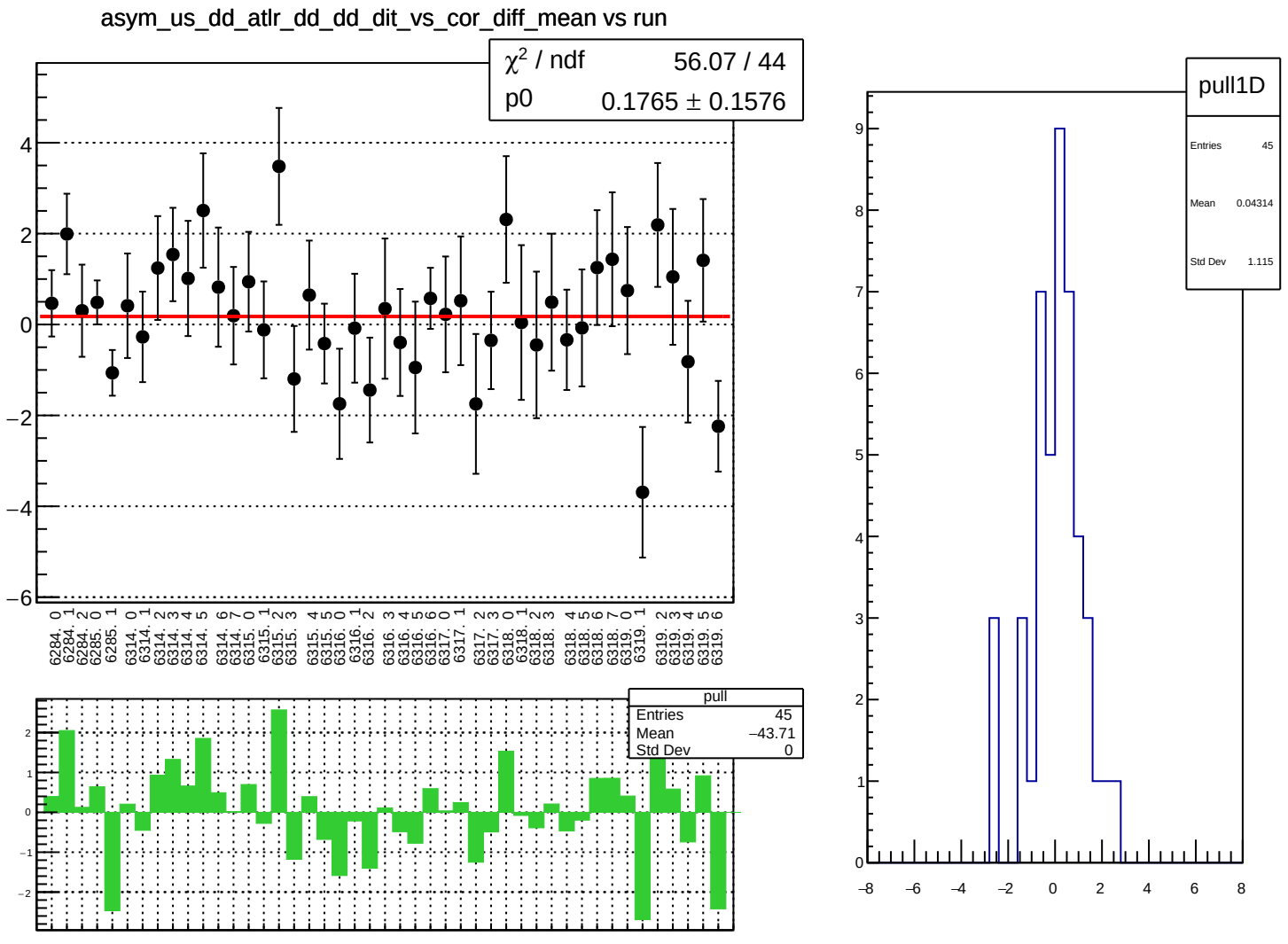
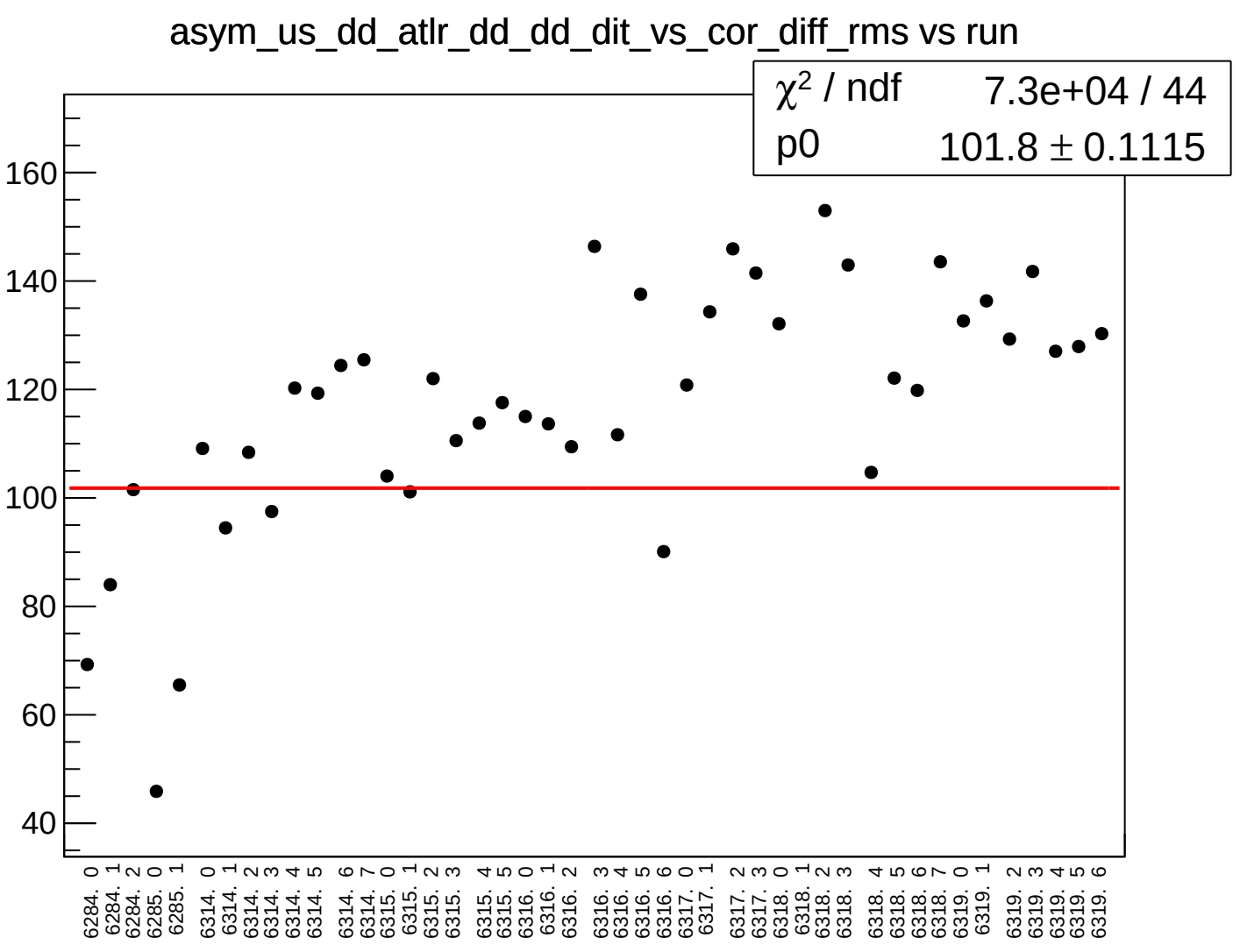
6319. 5
6319. 6


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.07 / 44
p0 0.1765 ± 0.1576
pull
Entries 45
Mean −43.71
Std Dev 0
pull1D
Entries 45
Mean 0.04314
Std Dev 1.115


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.3e+04 / 44
p0 101.8 ± 0.1115
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
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6315. 0
6315. 1
6315. 2
6315. 3
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6316. 1
6316. 2
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6317. 1
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6318. 0
6318. 1
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6318. 3
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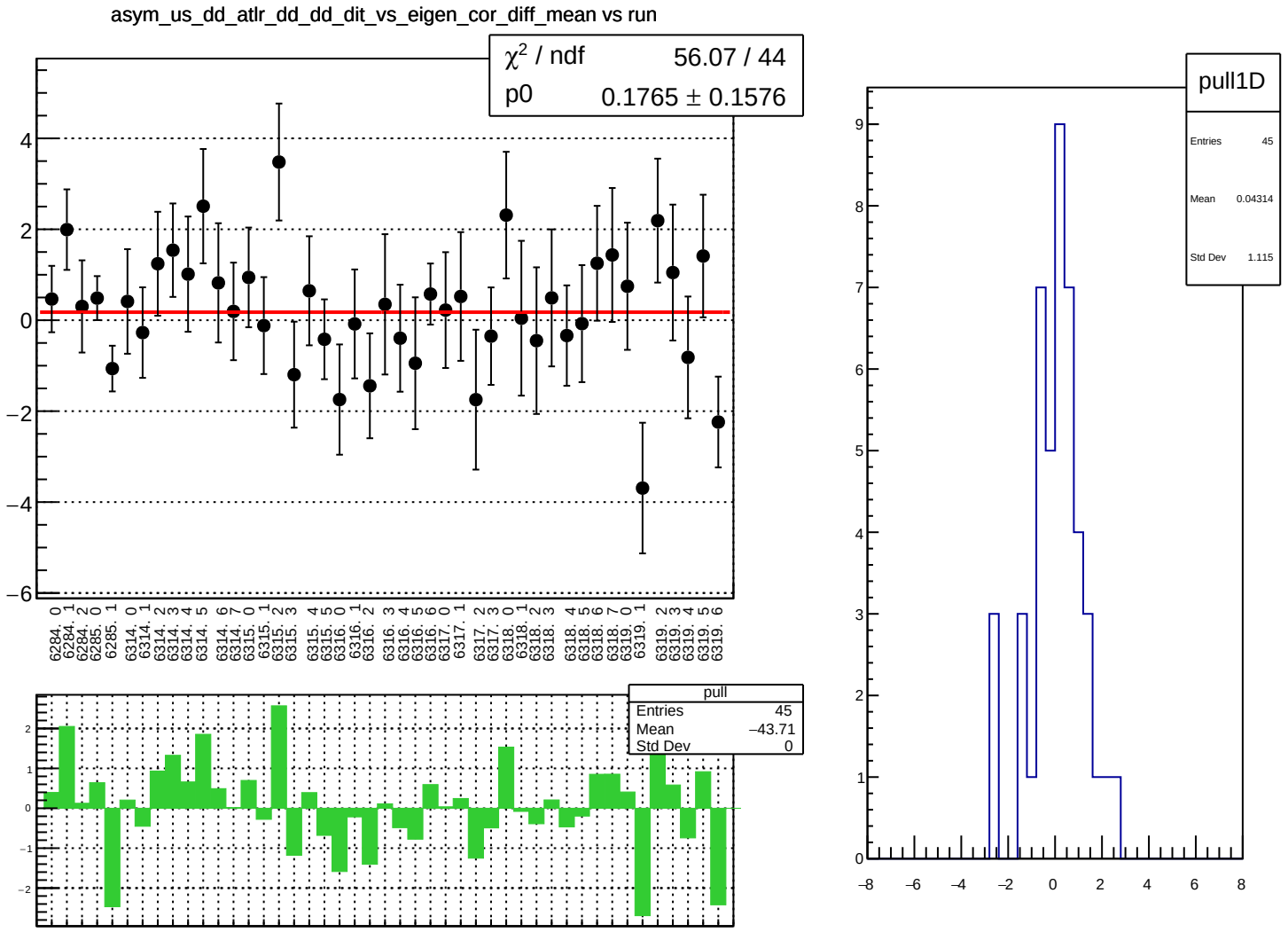
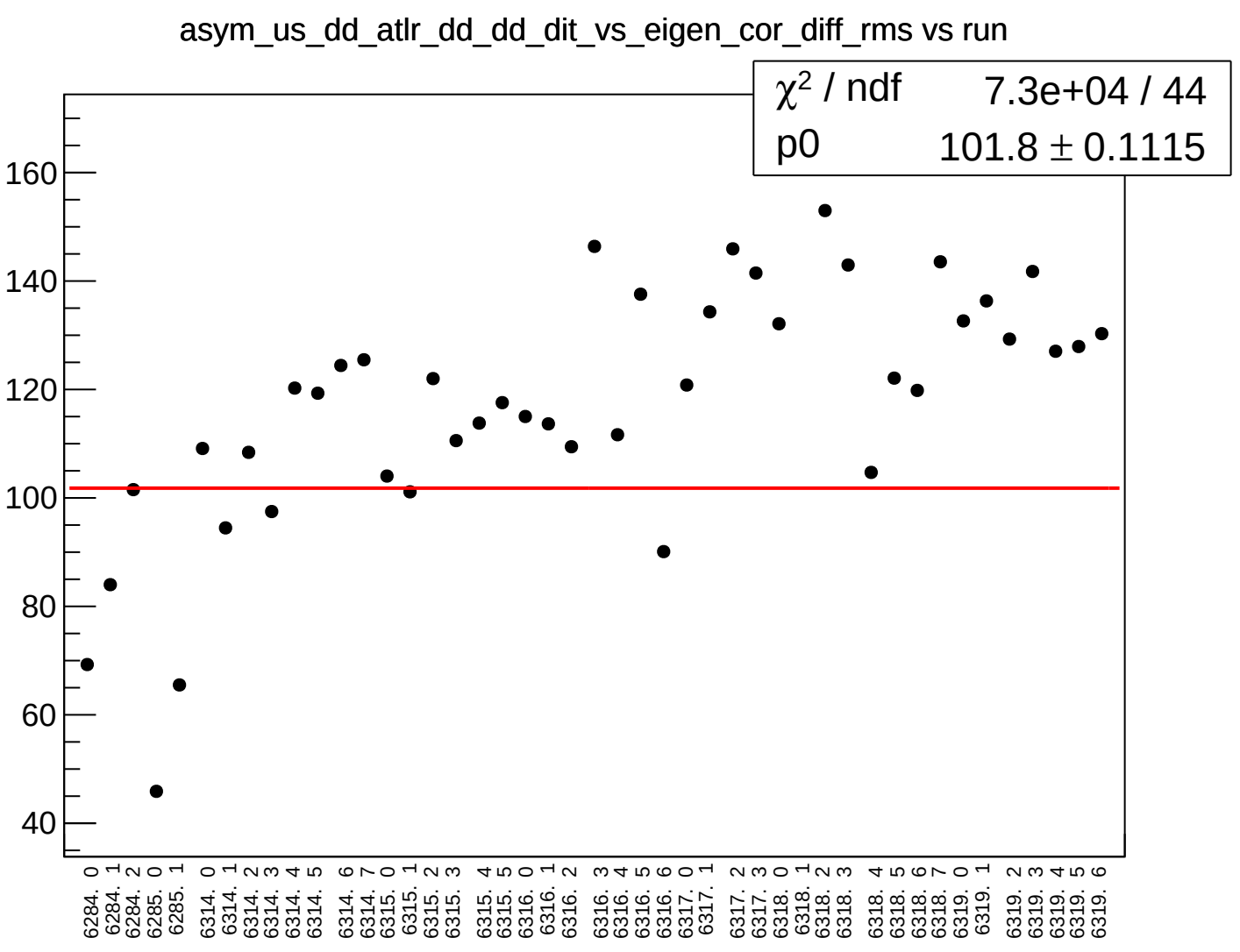
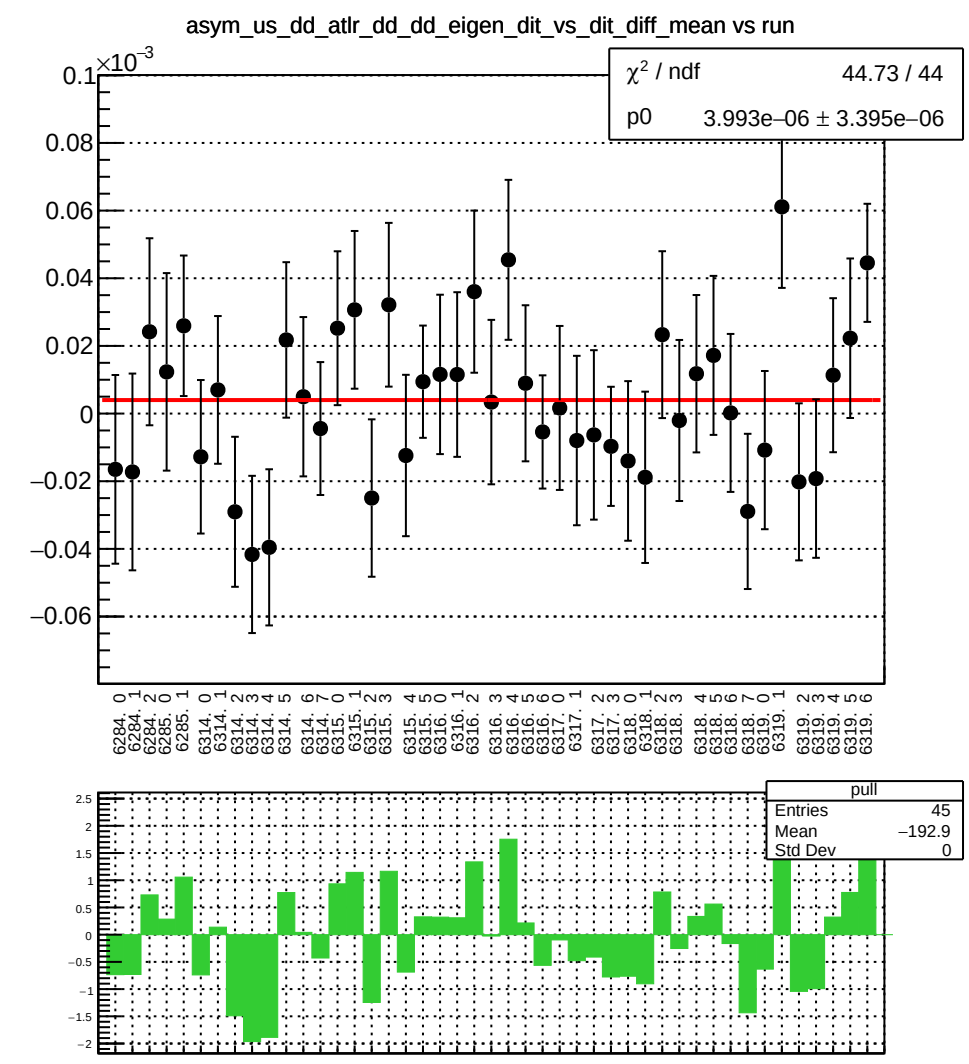
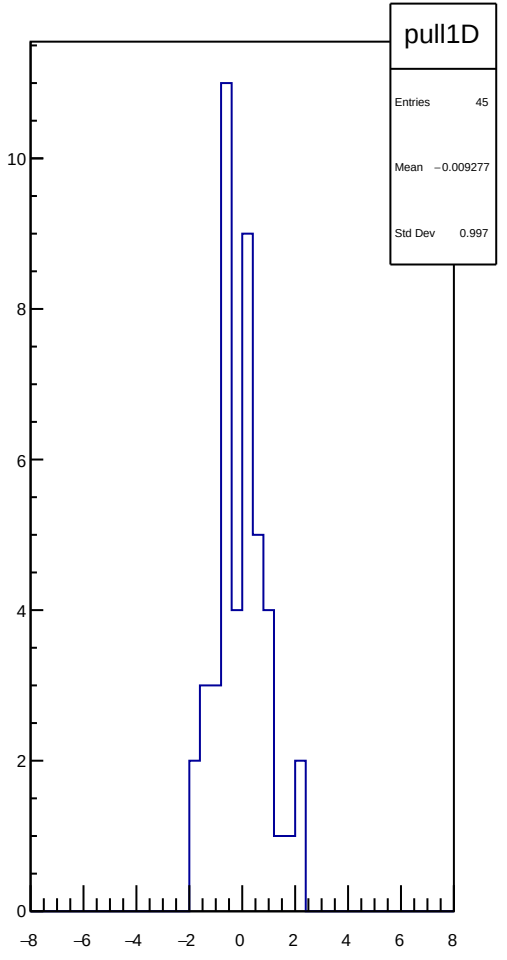
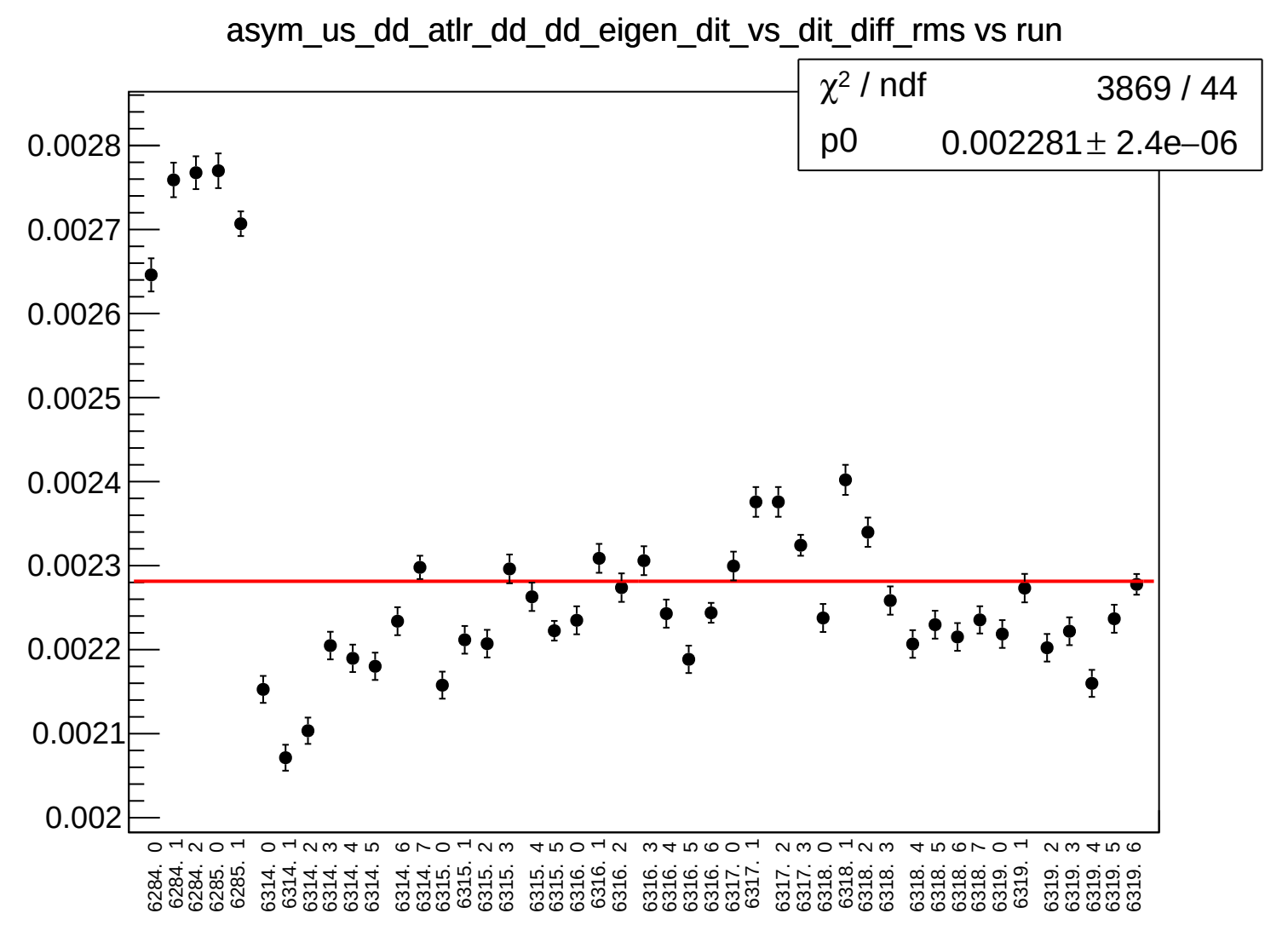
6319. 6

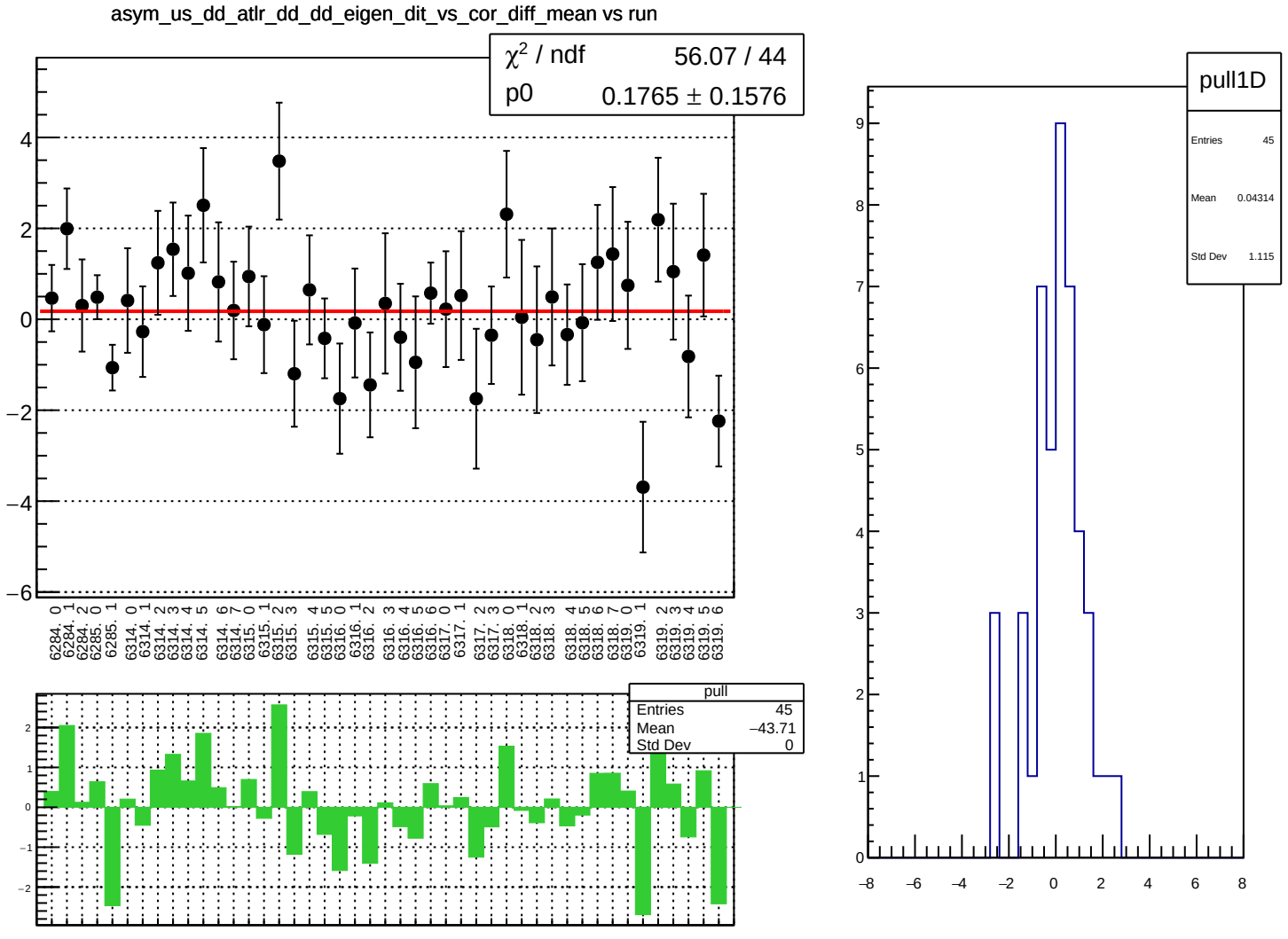

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.07 / 44
p0 0.1765 ± 0.1576
pull
Entries 45
Mean −43.71
Std Dev 0
pull1D
Entries 45
Mean 0.04314
Std Dev 1.115

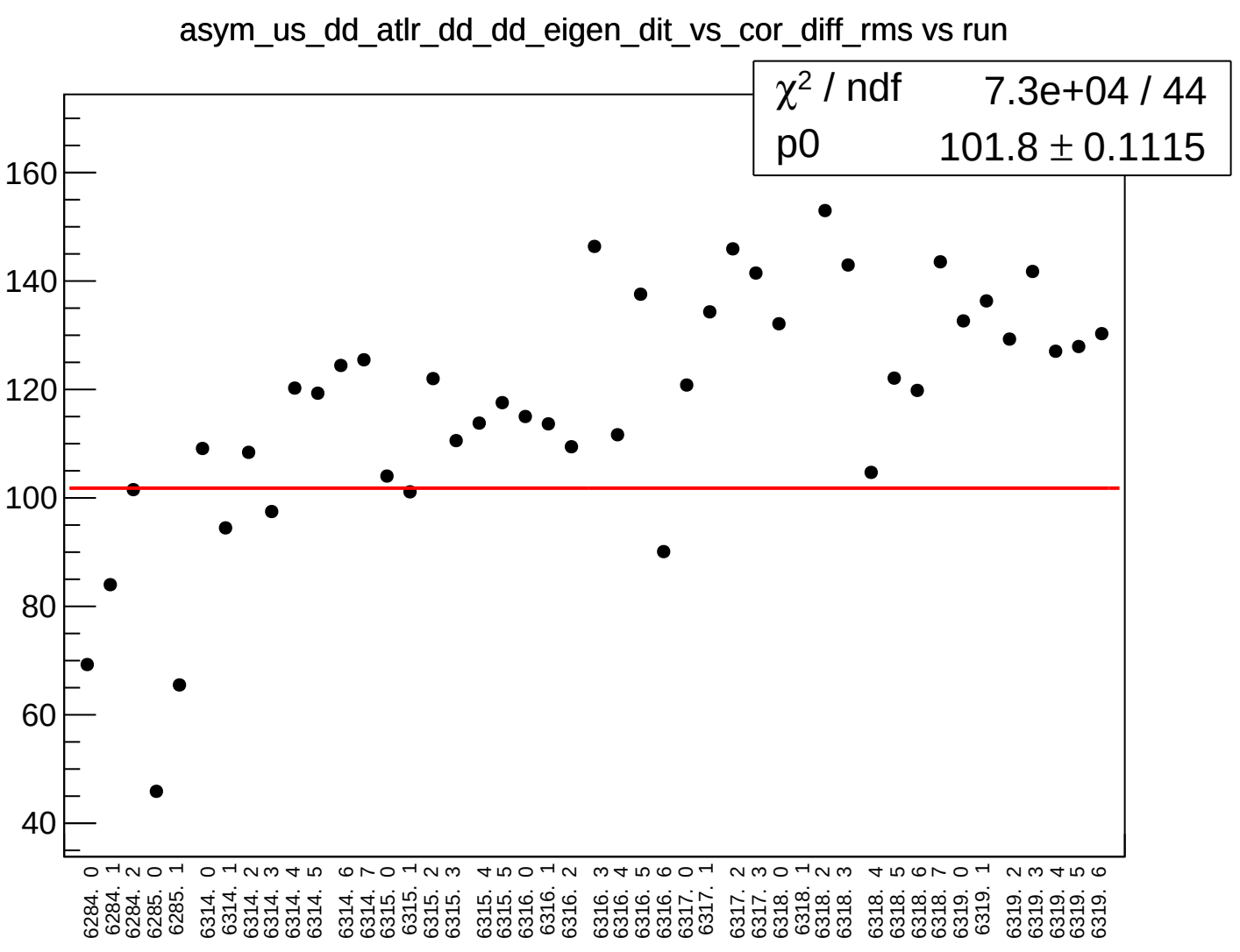

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.3e+04 / 44
p0 101.8 ± 0.1115
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

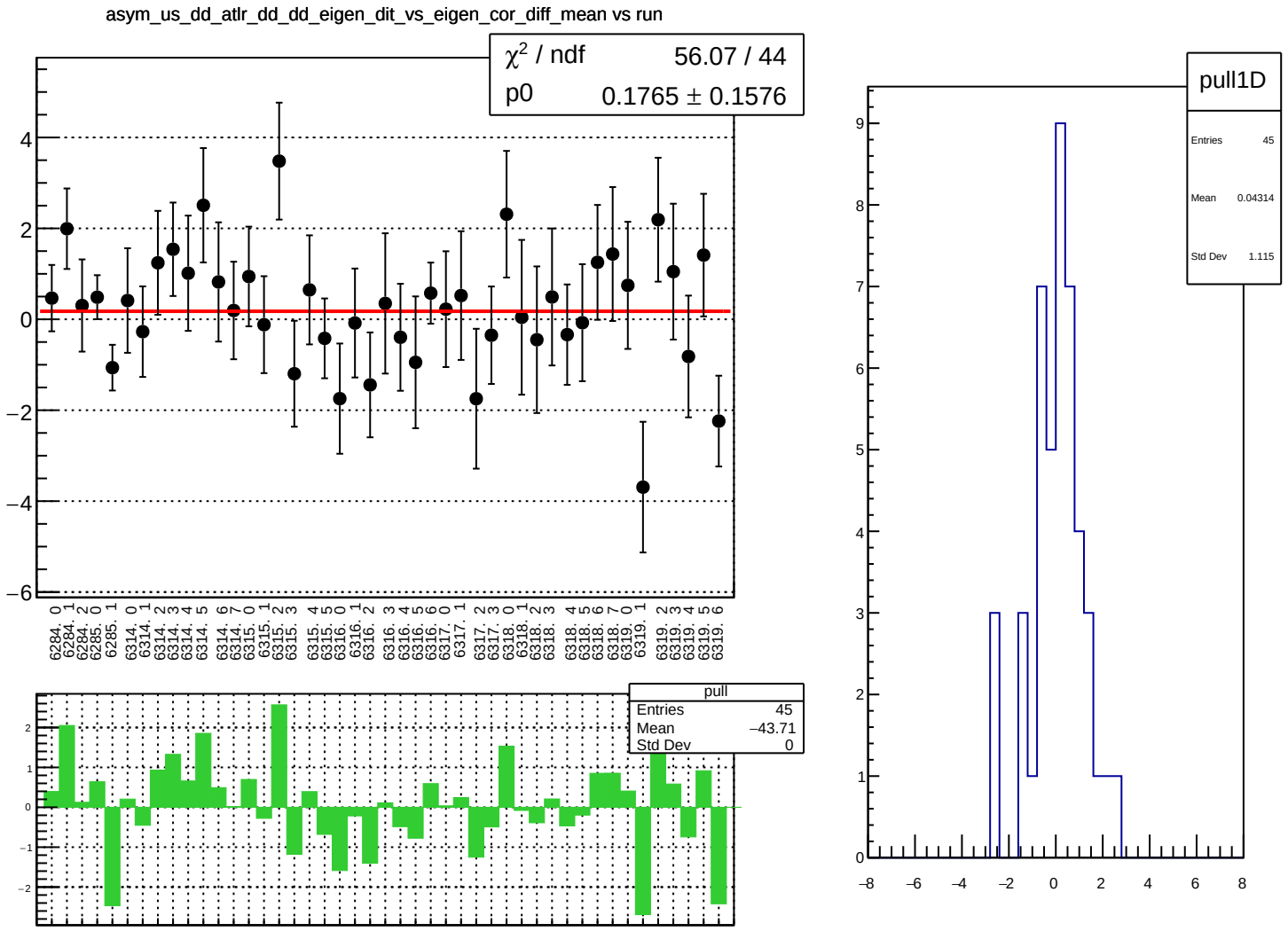

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 44.73 / 44
p0 3.993e−06 ± 3.395e−06
×10⁻³
pull
Entries 45
Mean −192.9
Std Dev 0

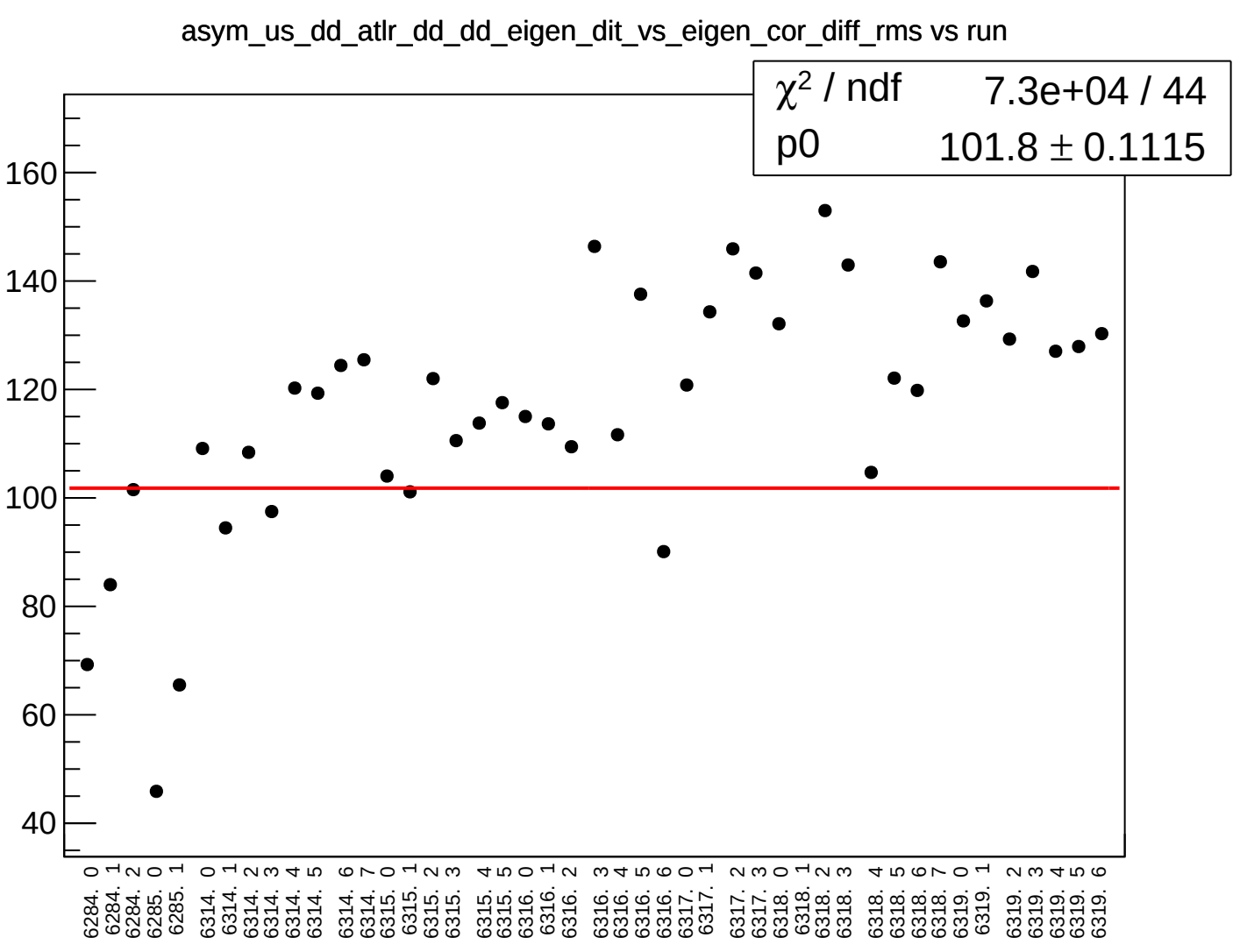

pull1D
Entries 45
Mean −0.009277
Std Dev 0.997

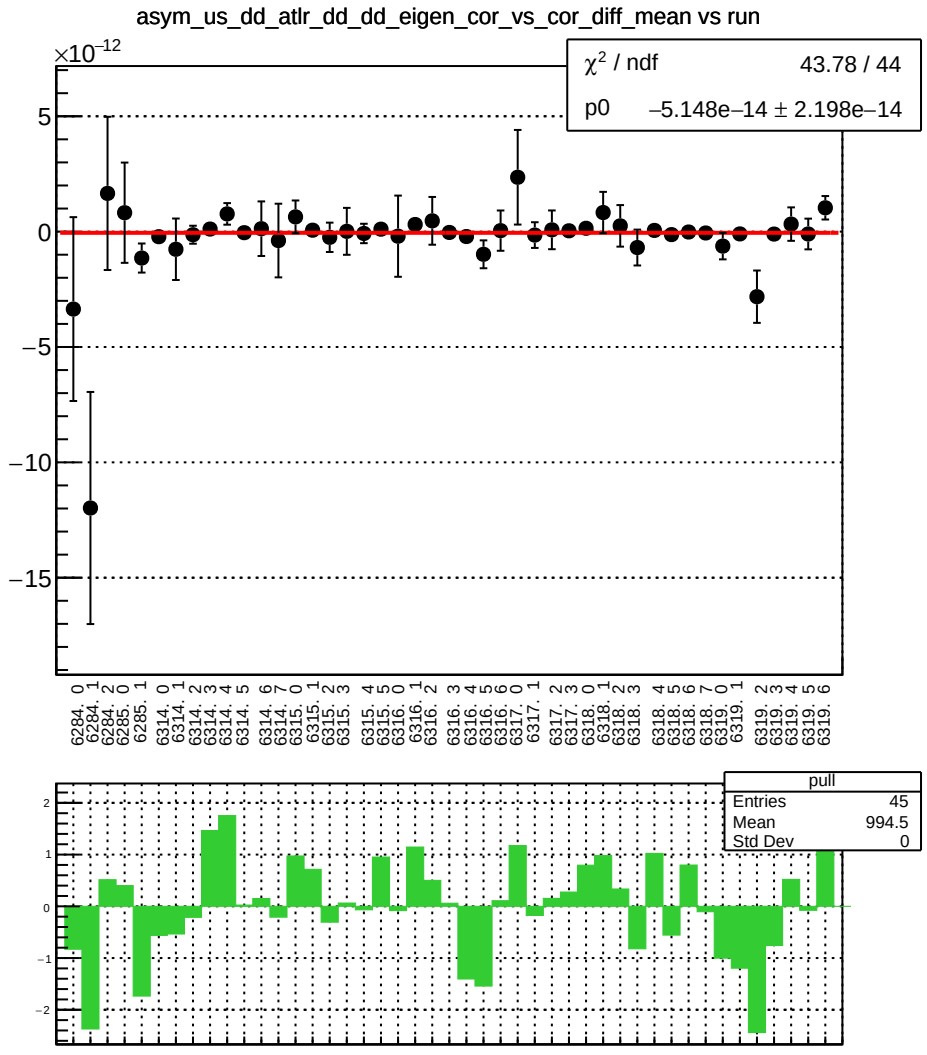

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3869 / 44
p0 0.002281 ± 2.4e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

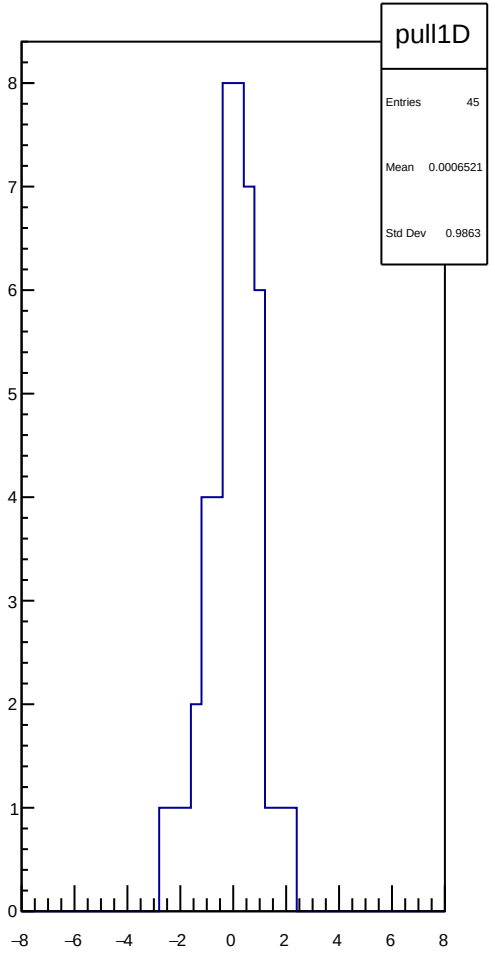

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.07 / 44
p0 0.1765 ± 0.1576
pull
Entries 45
Mean −43.71
Std Dev 0
pull1D
Entries 45
Mean 0.04314
Std Dev 1.115

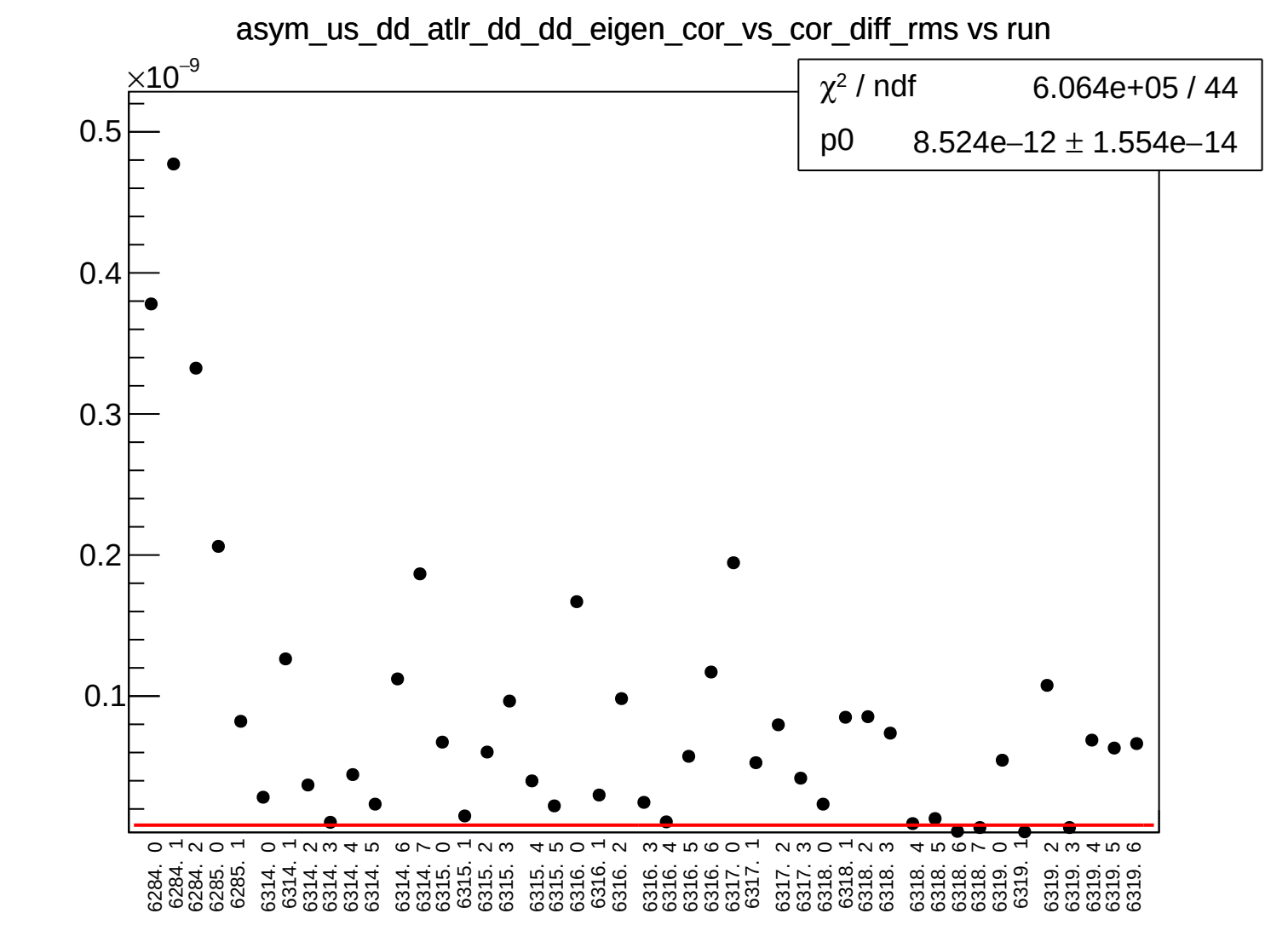

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.3e+04 / 44
p0 101.8 ± 0.1115
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

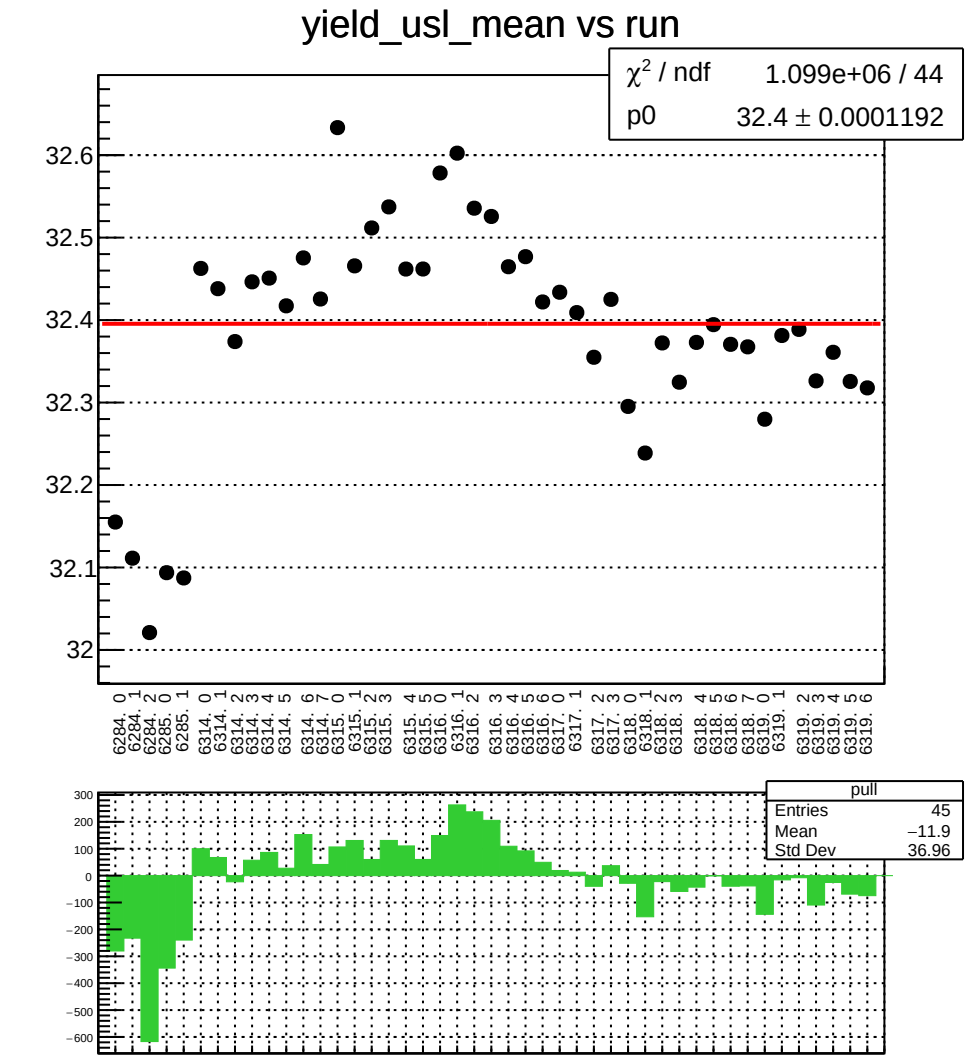

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.07 / 44
p0 0.1765 ± 0.1576
pull
Entries 45
Mean −43.71
Std Dev 0
pull1D
Entries 45
Mean 0.04314
Std Dev 1.115

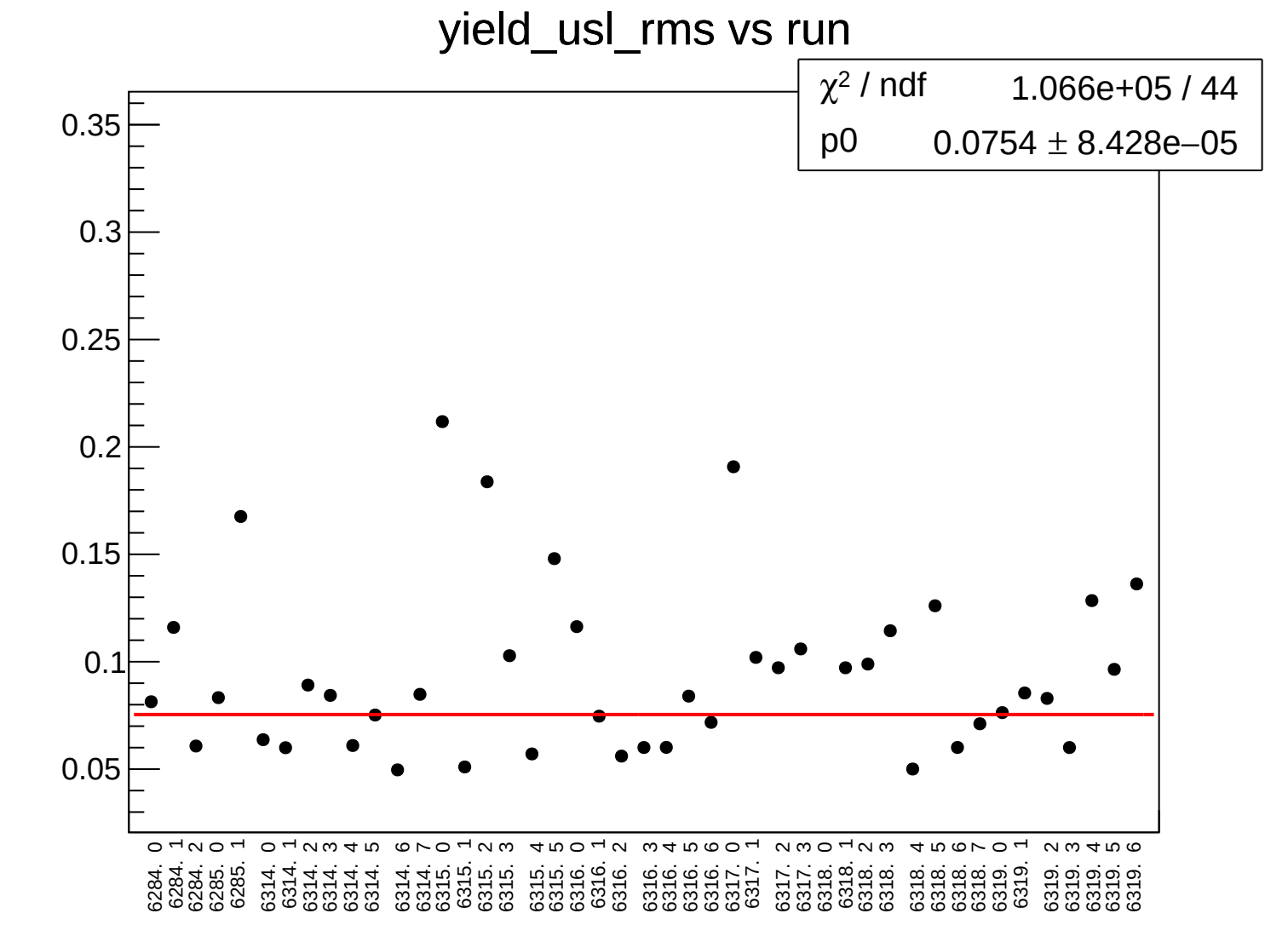

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.3e+04 / 44
p0 101.8 ± 0.1115
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

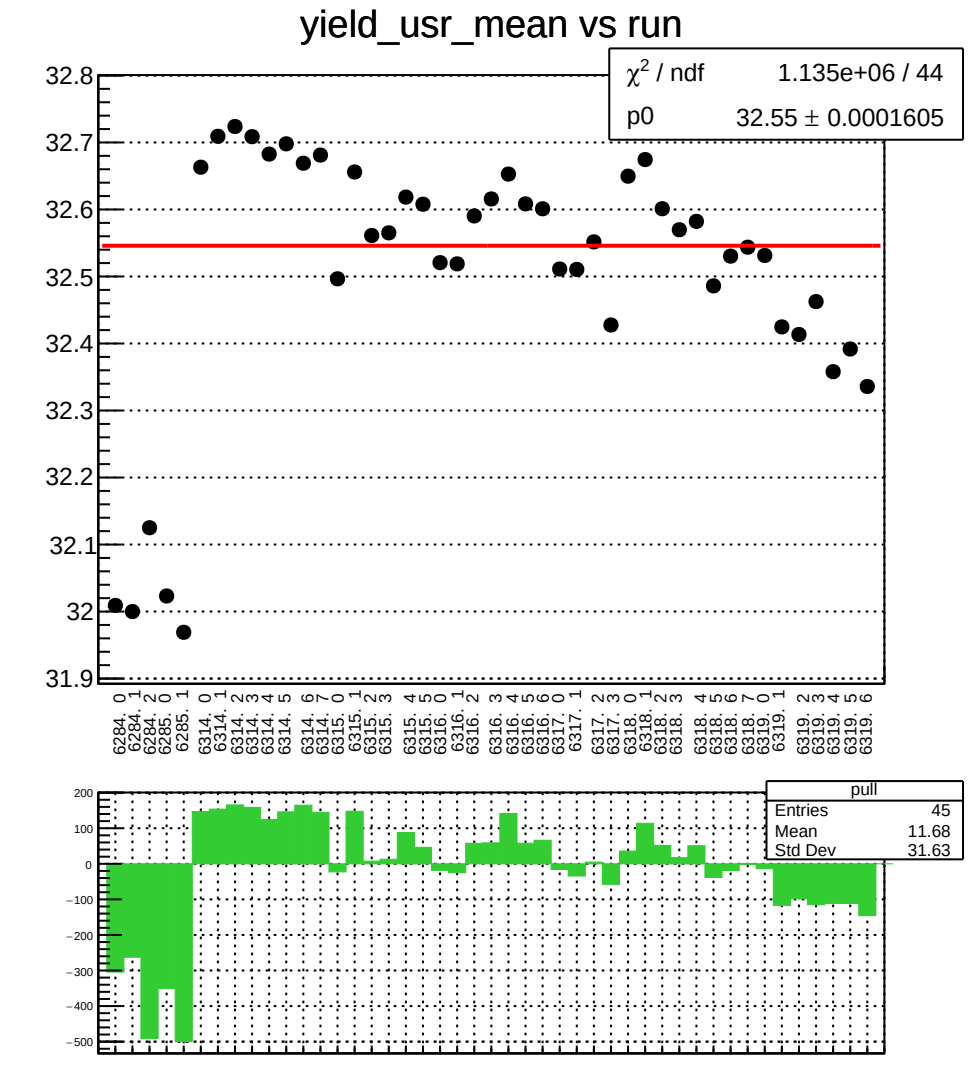

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.78 / 44
p0 −5.148e−14 ± 2.198e−14
pull
Entries 45
Mean 994.5
Std Dev 0

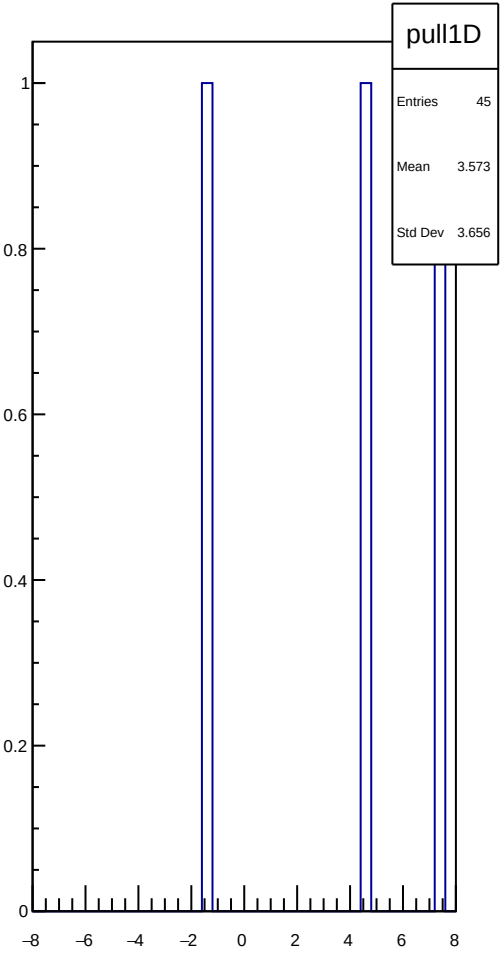

pull1D
Entries 45
Mean 0.0006521
Std Dev 0.9863

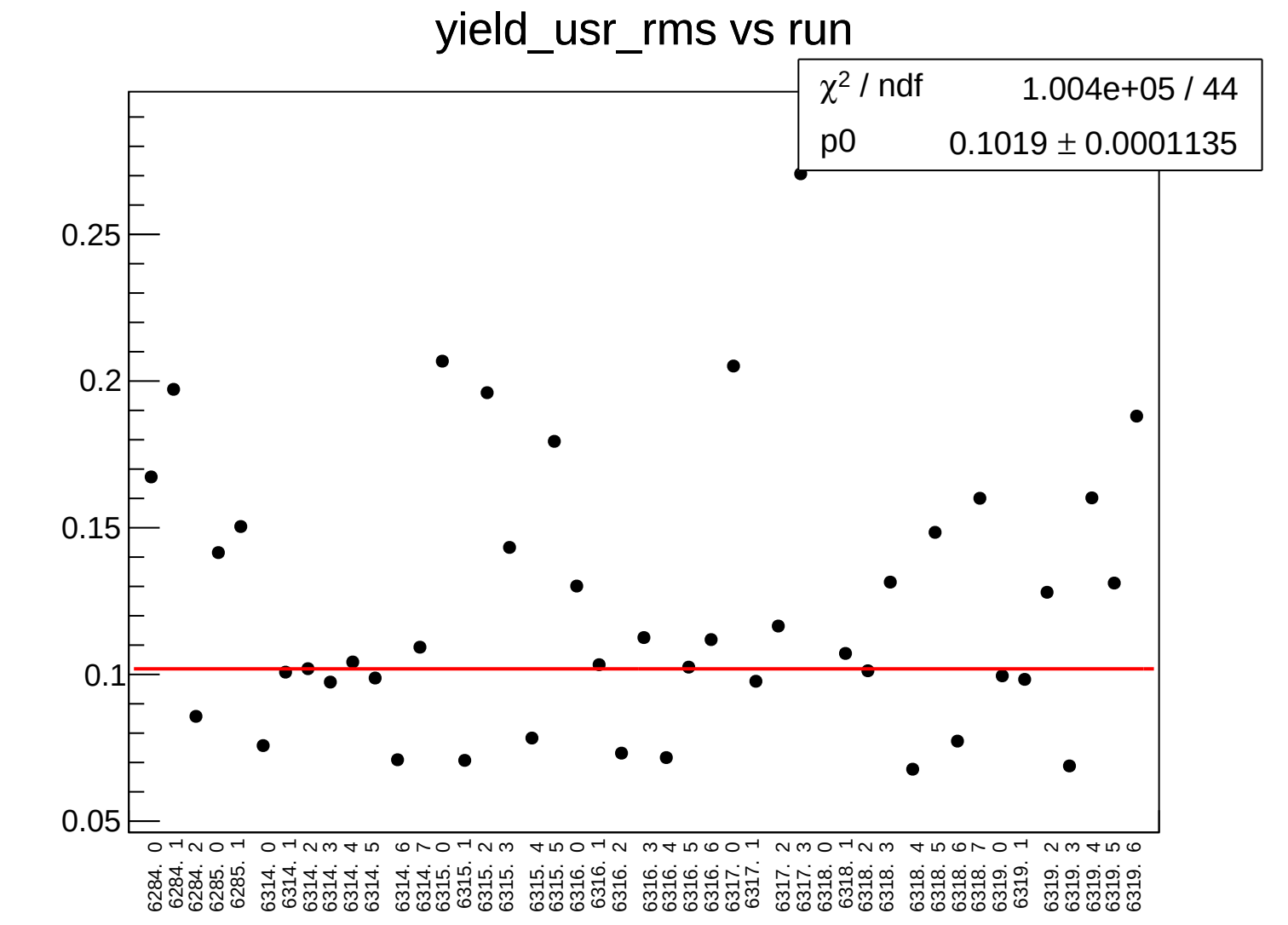

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.064e+05 / 44
p0 8.524e−12 ± 1.554e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

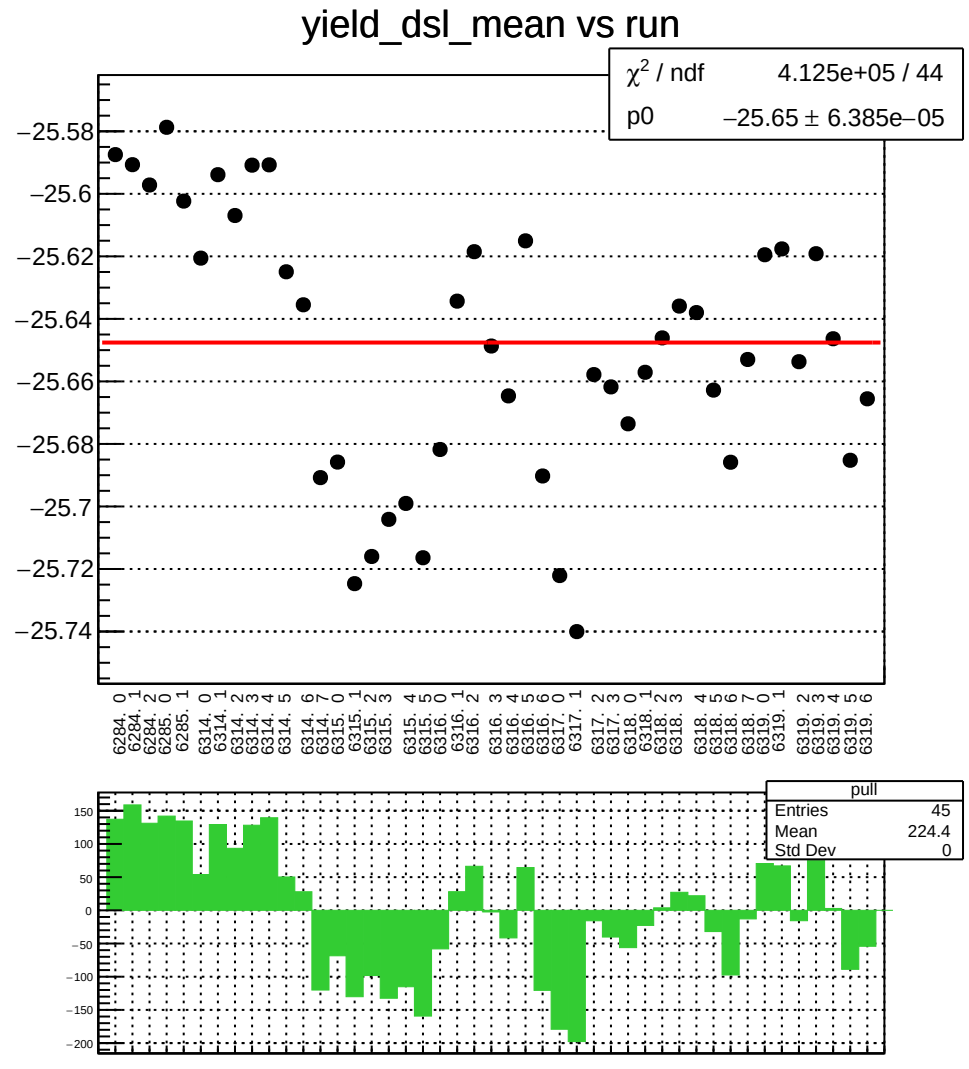

yield_usl_mean vs run
χ² / ndf 1.099e+06 / 44
p0 32.4 ± 0.0001192
32.6
32.5
32.4
32.3
32.2
32.1
32
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.9
Std Dev 36.96
300
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 45
Mean −4.292
Std Dev 3.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

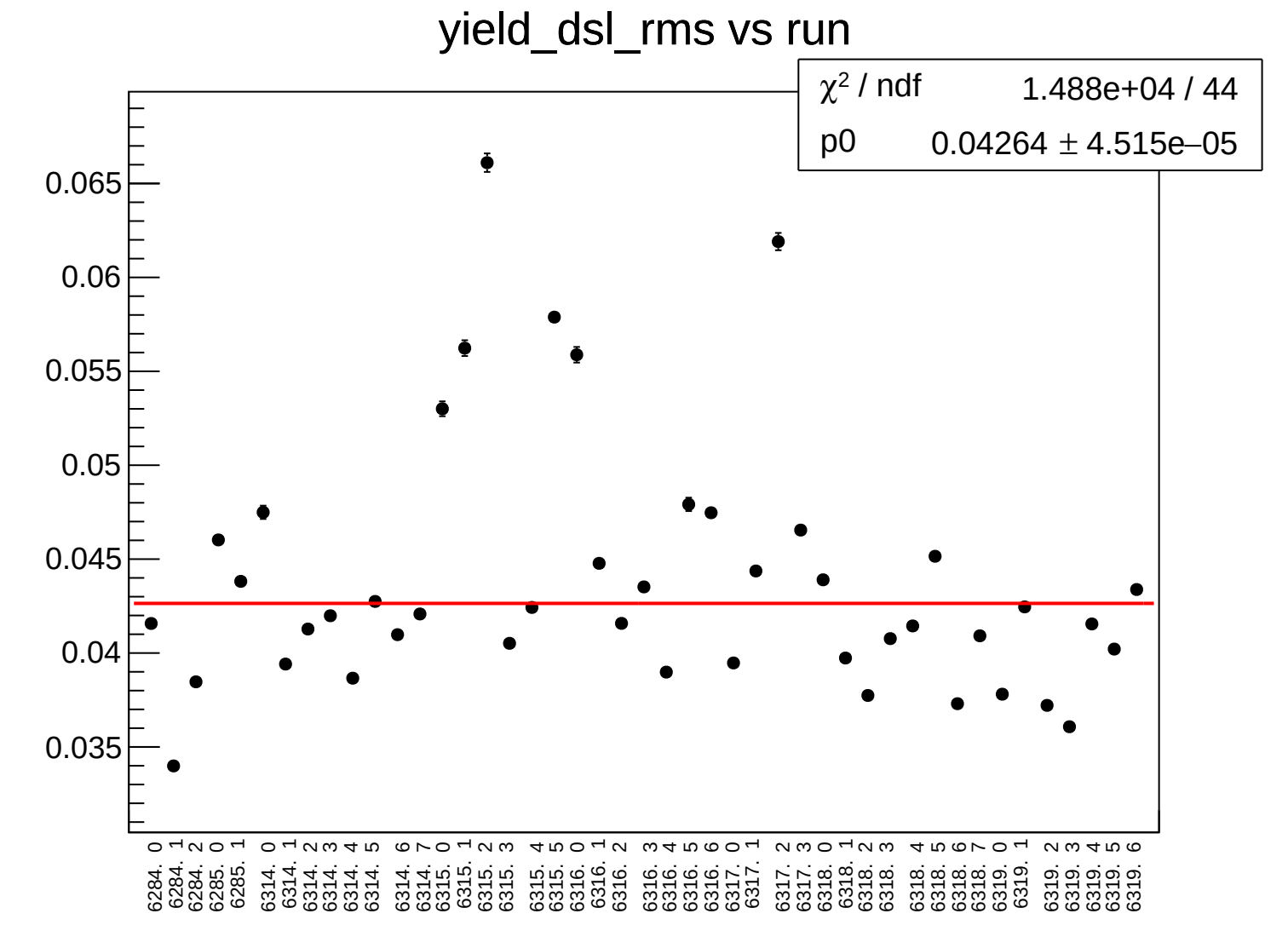

yield_usl_rms vs run
χ² / ndf 1.066e+05 / 44
p0 0.0754 ± 8.428e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

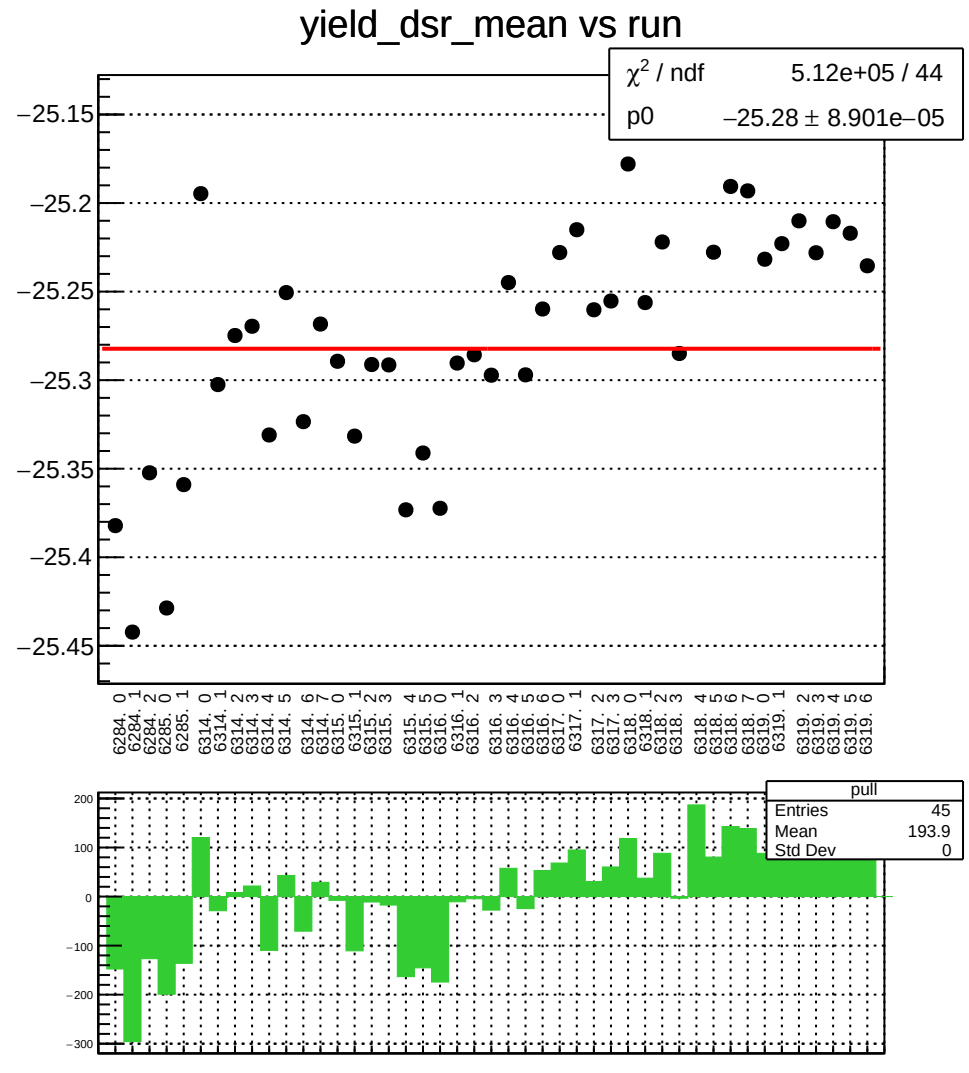

yield_usr_mean vs run
χ² / ndf 1.135e+06 / 44
p0 32.55 ± 0.0001605
32.8
32.7
32.6
32.5
32.4
32.3
32.2
32.1
32
31.9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.68
Std Dev 31.63
200
100
0
−100
−200
−300
−400
−500

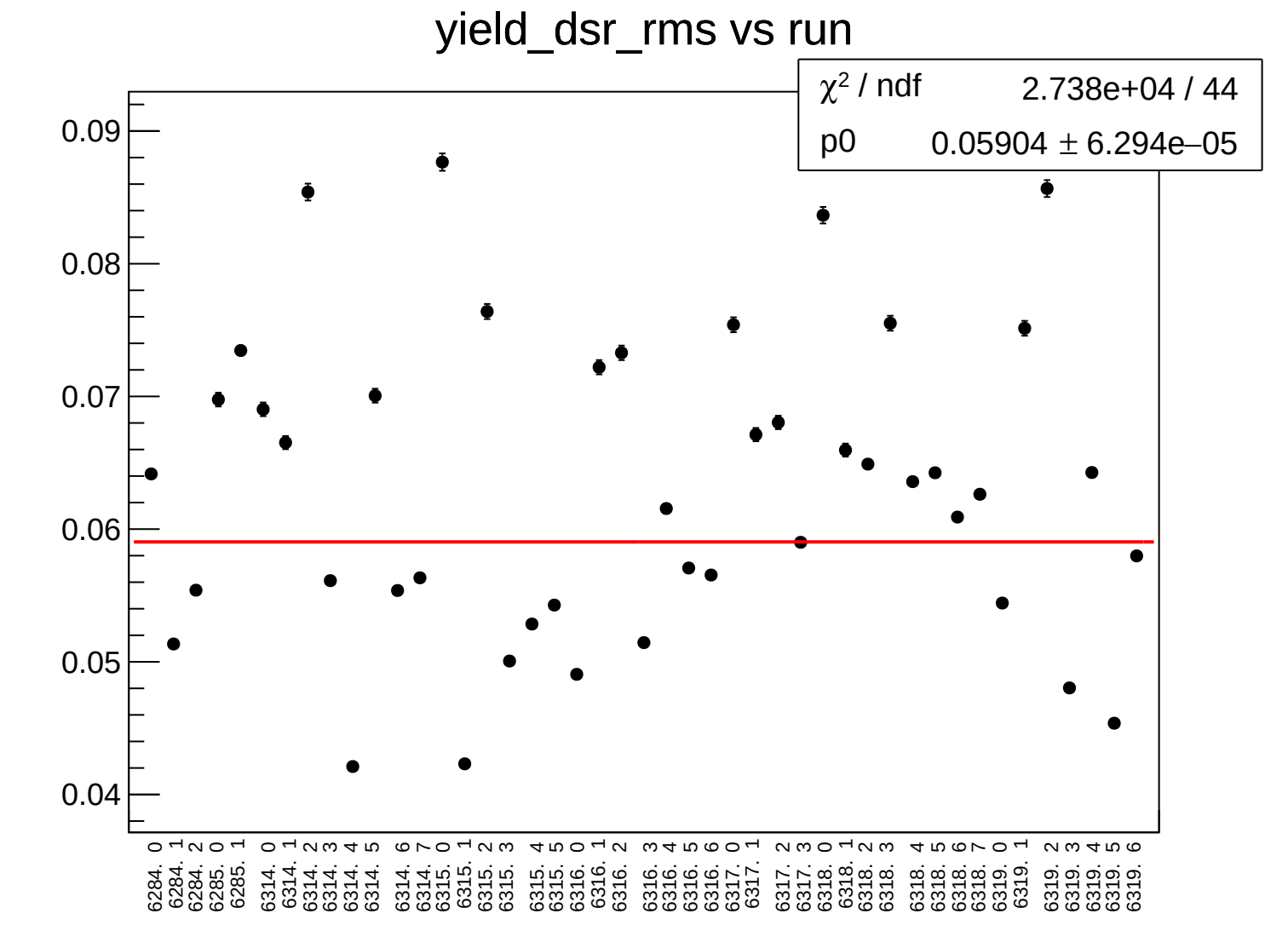

pull1D
Entries 45
Mean 3.573
Std Dev 3.656
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

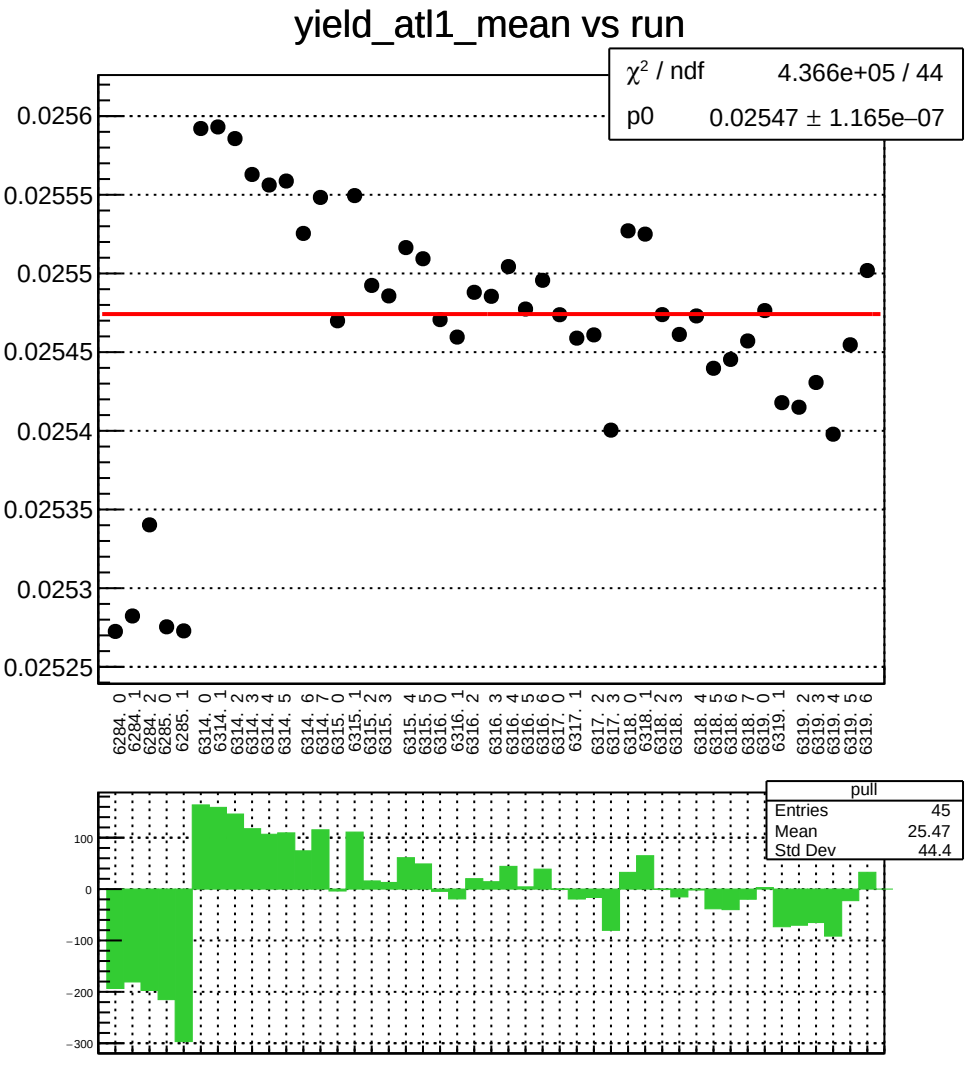

yield_usr_rms vs run
χ² / ndf 1.004e+05 / 44
p0 0.1019 ± 0.0001135
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

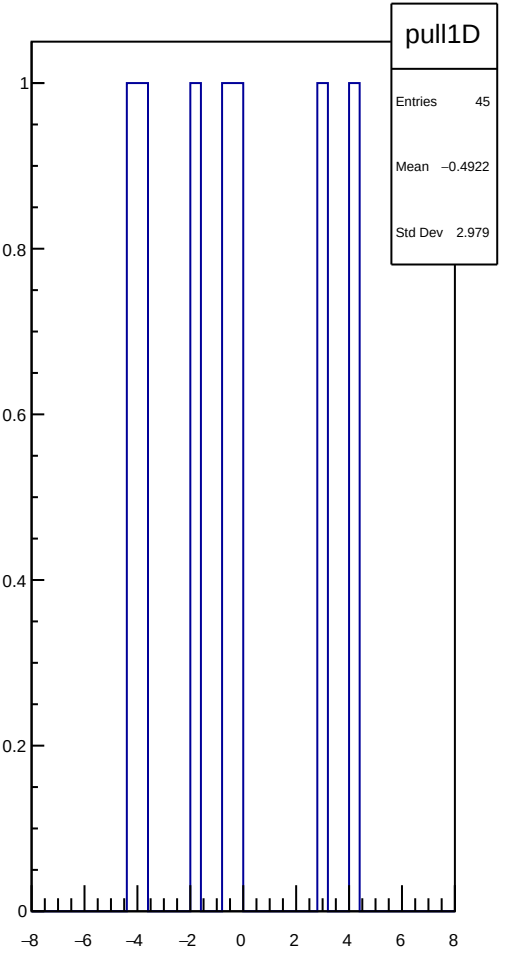

yield_dsl_mean vs run
χ² / ndf 4.125e+05 / 44
p0 −25.65 ± 6.385e−05
−25.58
−25.6
−25.62
−25.64
−25.66
−25.68
−25.7
−25.72
−25.74
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 224.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean 1.368
Std Dev 2.706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

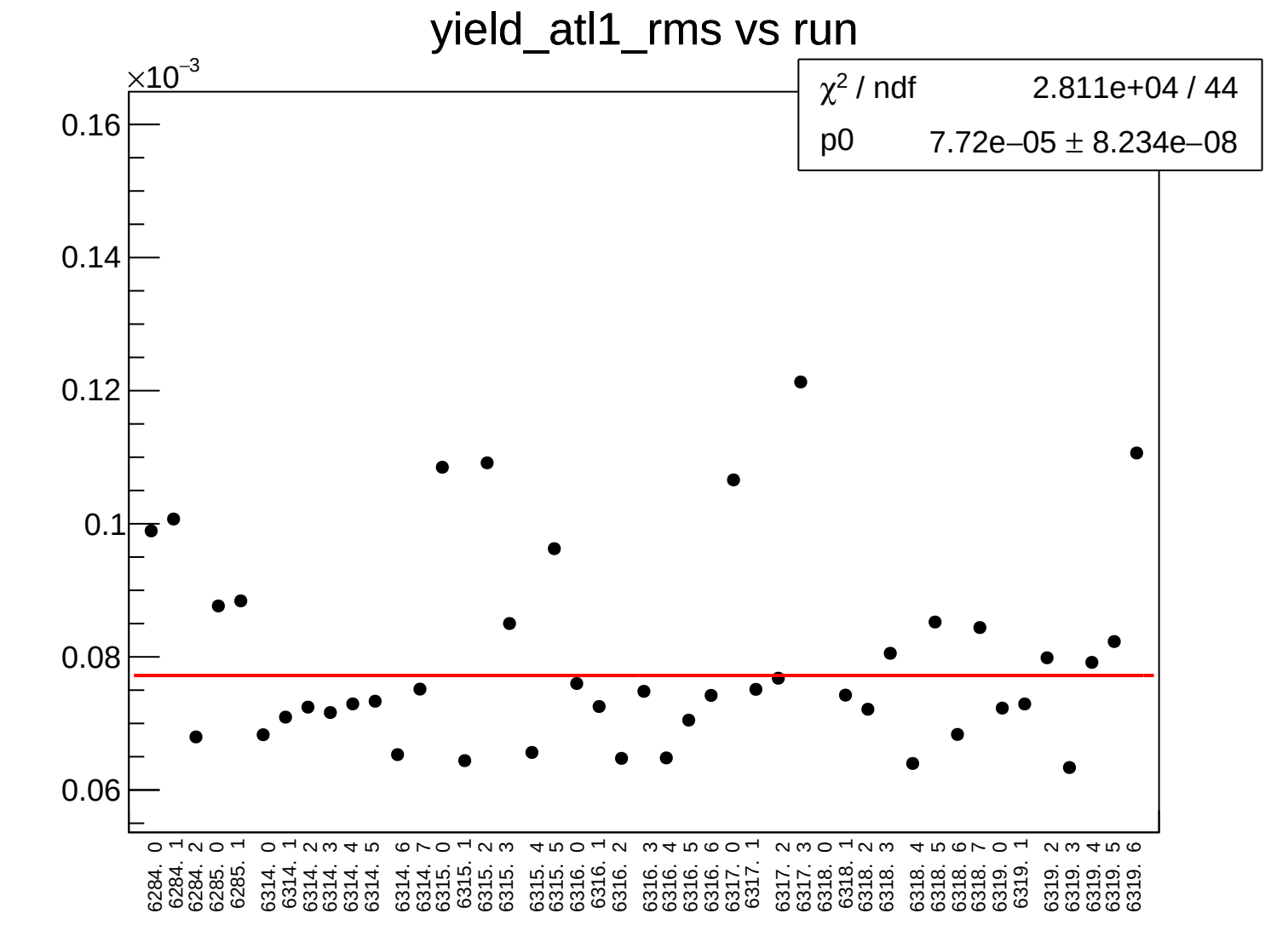

yield_dsl_rms vs run
χ² / ndf 1.488e+04 / 44
p0 0.04264 ± 4.515e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

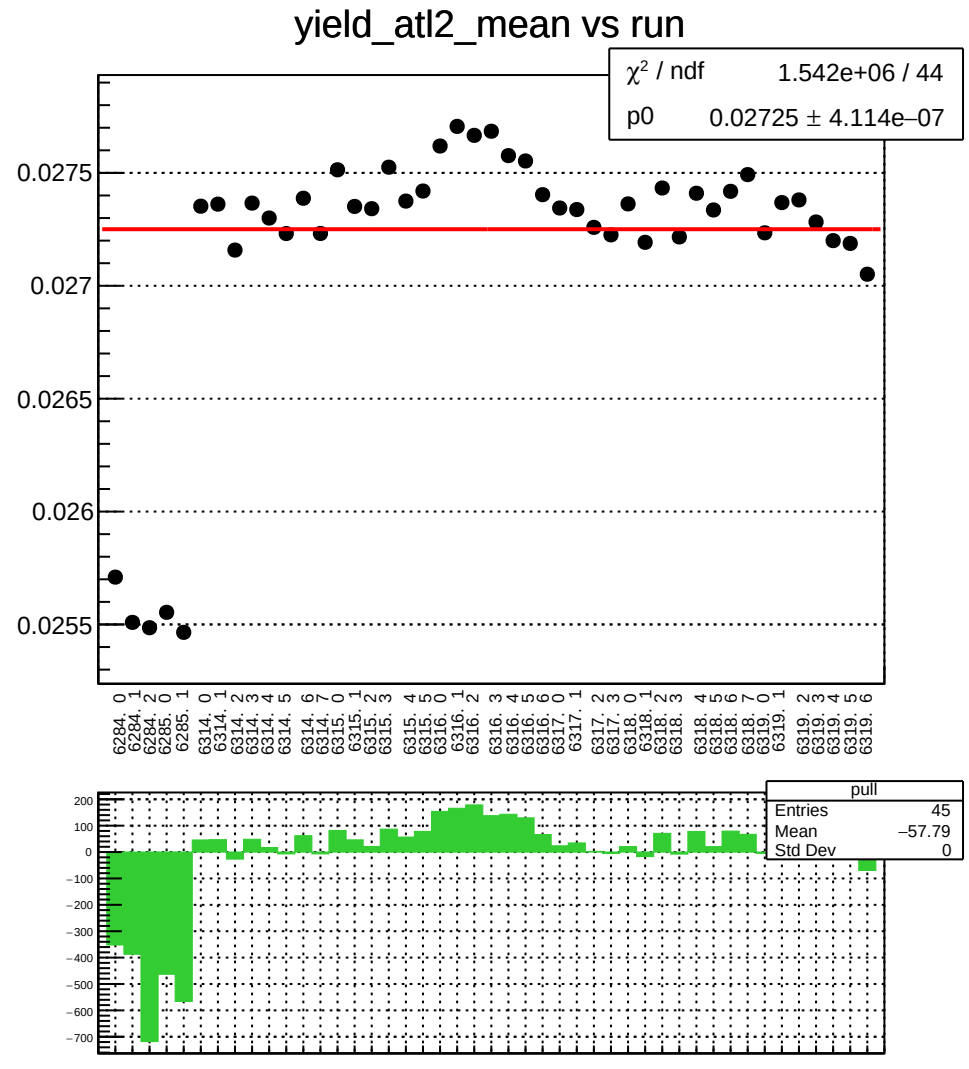

yield_dsr_mean vs run
χ² / ndf 5.12e+05 / 44
p0 −25.28 ± 8.901e−05
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 193.9
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean −5.148
Std Dev 1.826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

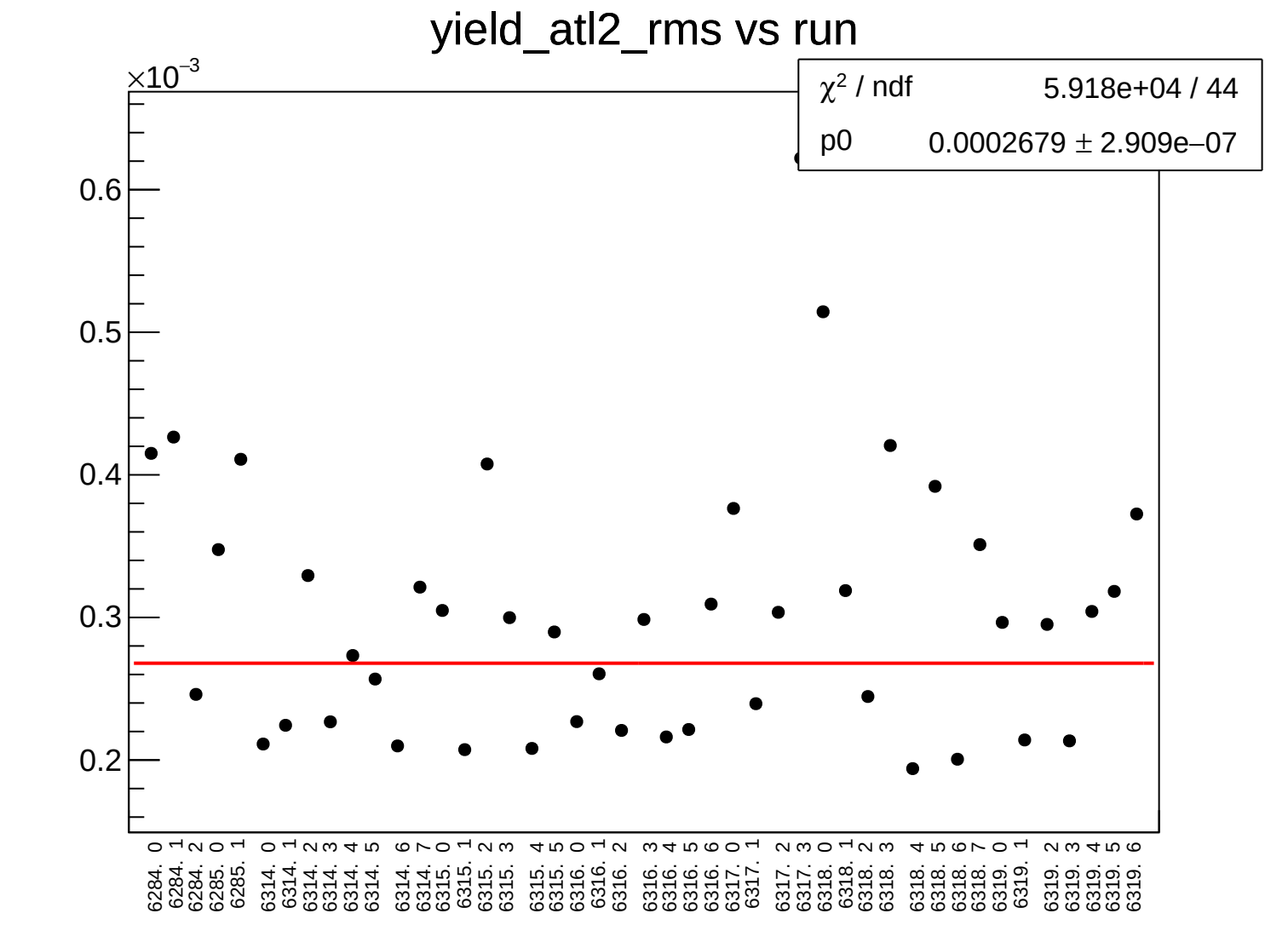

yield_dsr_rms vs run
χ² / ndf 2.738e+04 / 44
p0 0.05904 ± 6.294e−05
0.09
0.08
0.07
0.06
0.05
0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

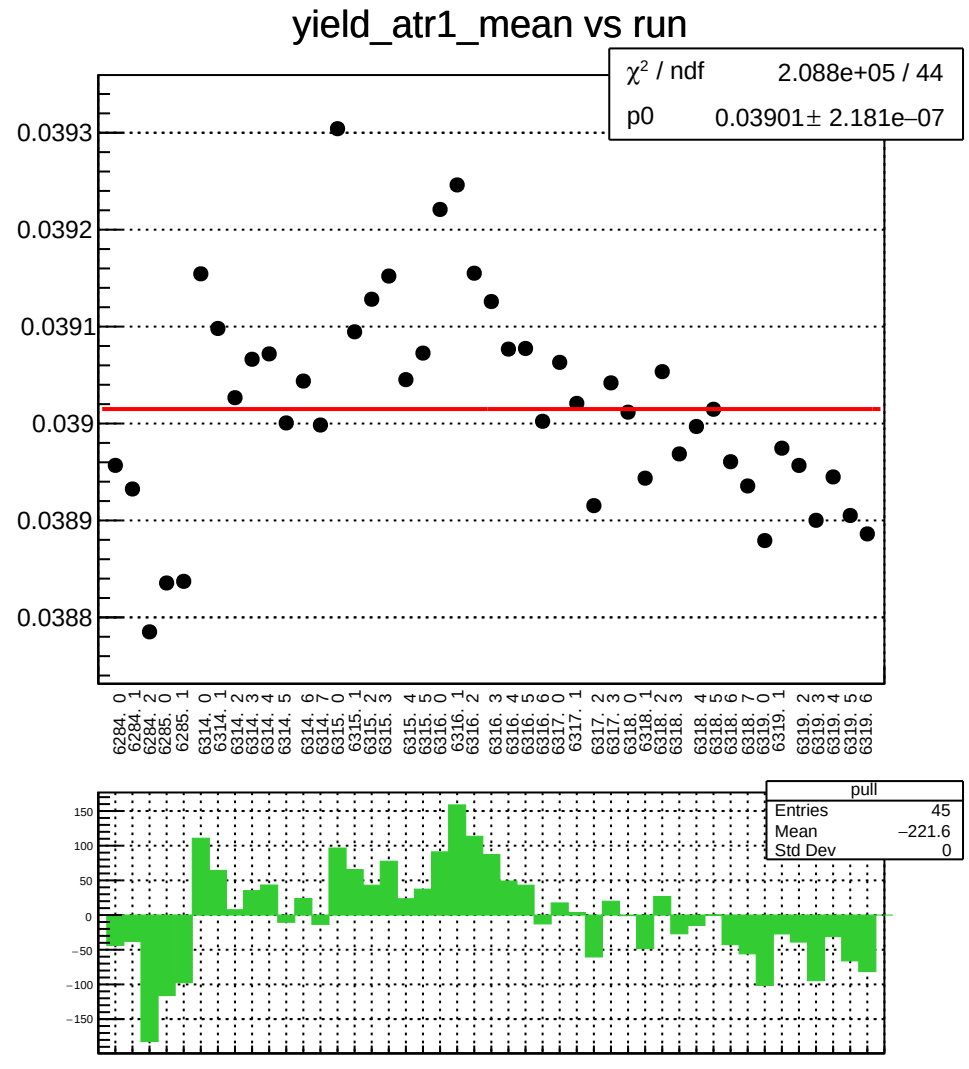

yield_atl1_mean vs run
χ² / ndf 4.366e+05 / 44
p0 0.02547 ± 1.165e−07
0.0256
0.02555
0.0255
0.02545
0.0254
0.02535
0.0253
0.02525
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 25.47
Std Dev 44.4
100
0
−100
−200
−300

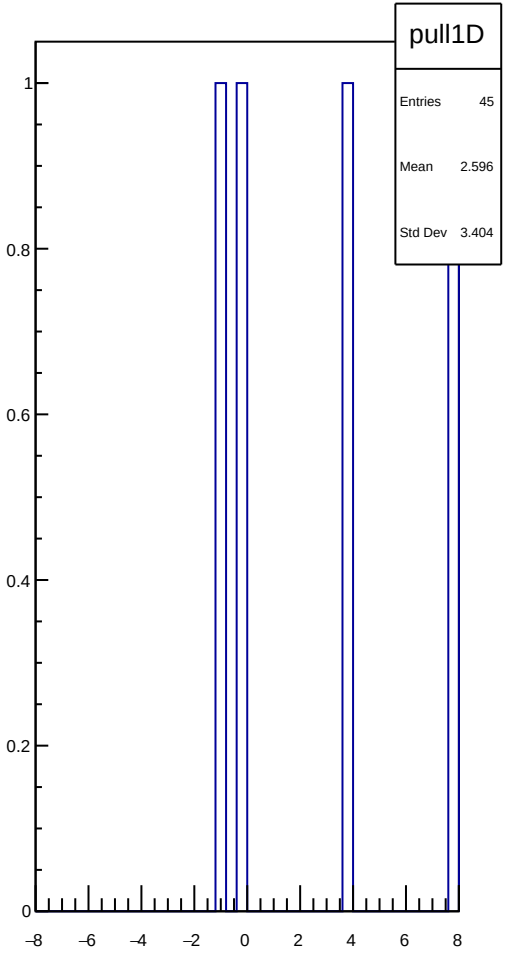

pull1D
Entries 45
Mean −0.4922
Std Dev 2.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

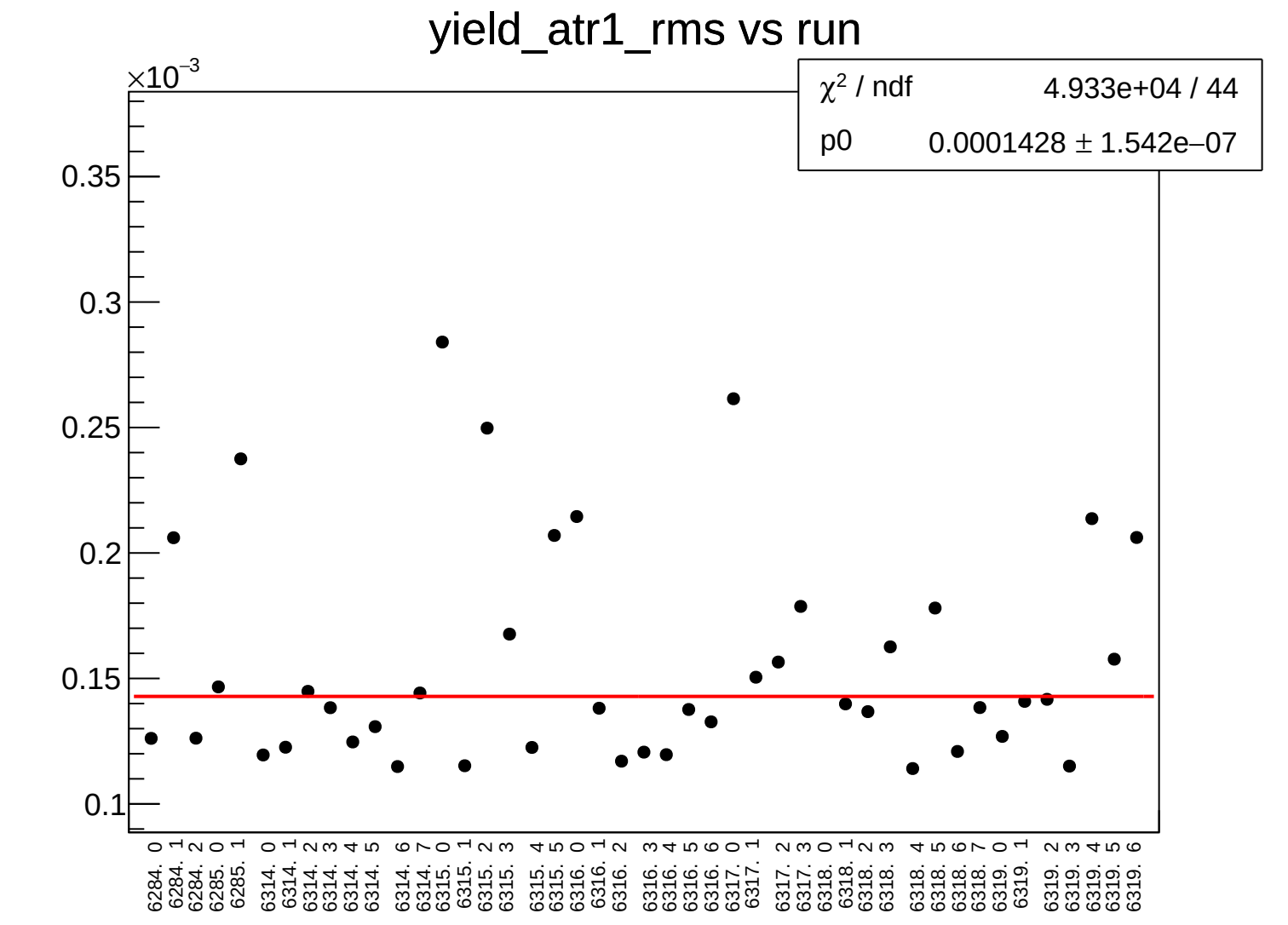

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.811e+04 / 44
p0 7.72e−05 ± 8.234e−08
0.16
0.14
0.12
0.1
0.08
0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

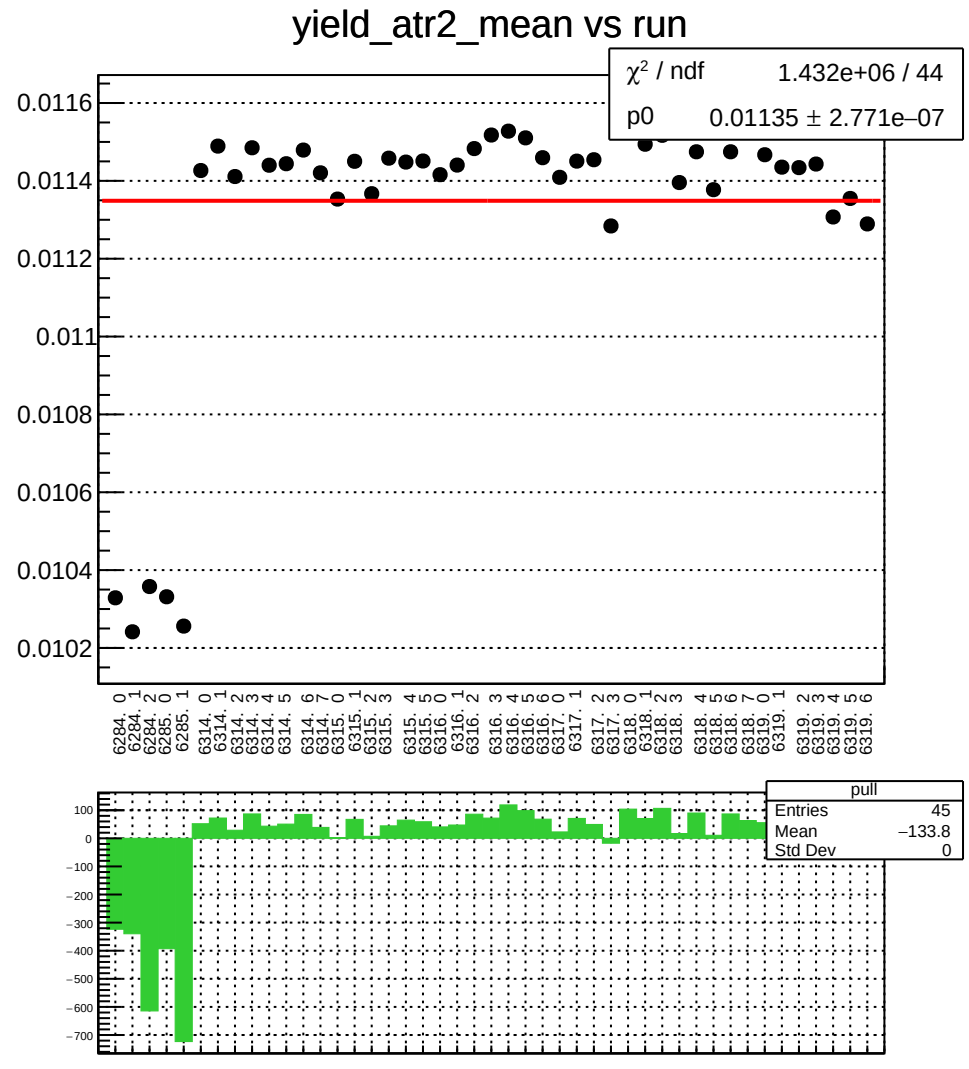

yield_atl2_mean vs run
χ² / ndf 1.542e+06 / 44
p0 0.02725 ± 4.114e−07
0.0275
0.027
0.0265
0.026
0.0255
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −57.79
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 45
Mean −4.895
Std Dev 3.469
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

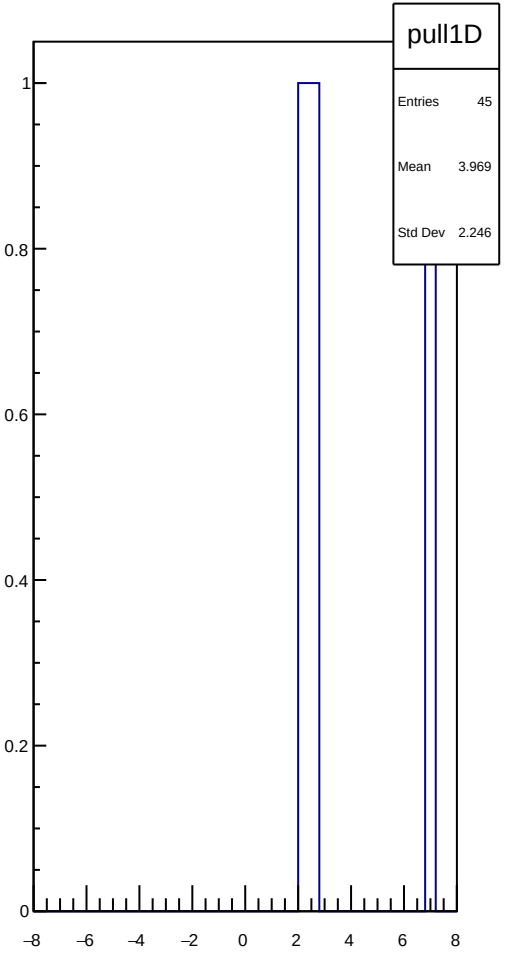

yield_atl2_rms vs run
×10⁻³
χ² / ndf 5.918e+04 / 44
p0 0.0002679 ± 2.909e−07
0.6
0.5
0.4
0.3
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

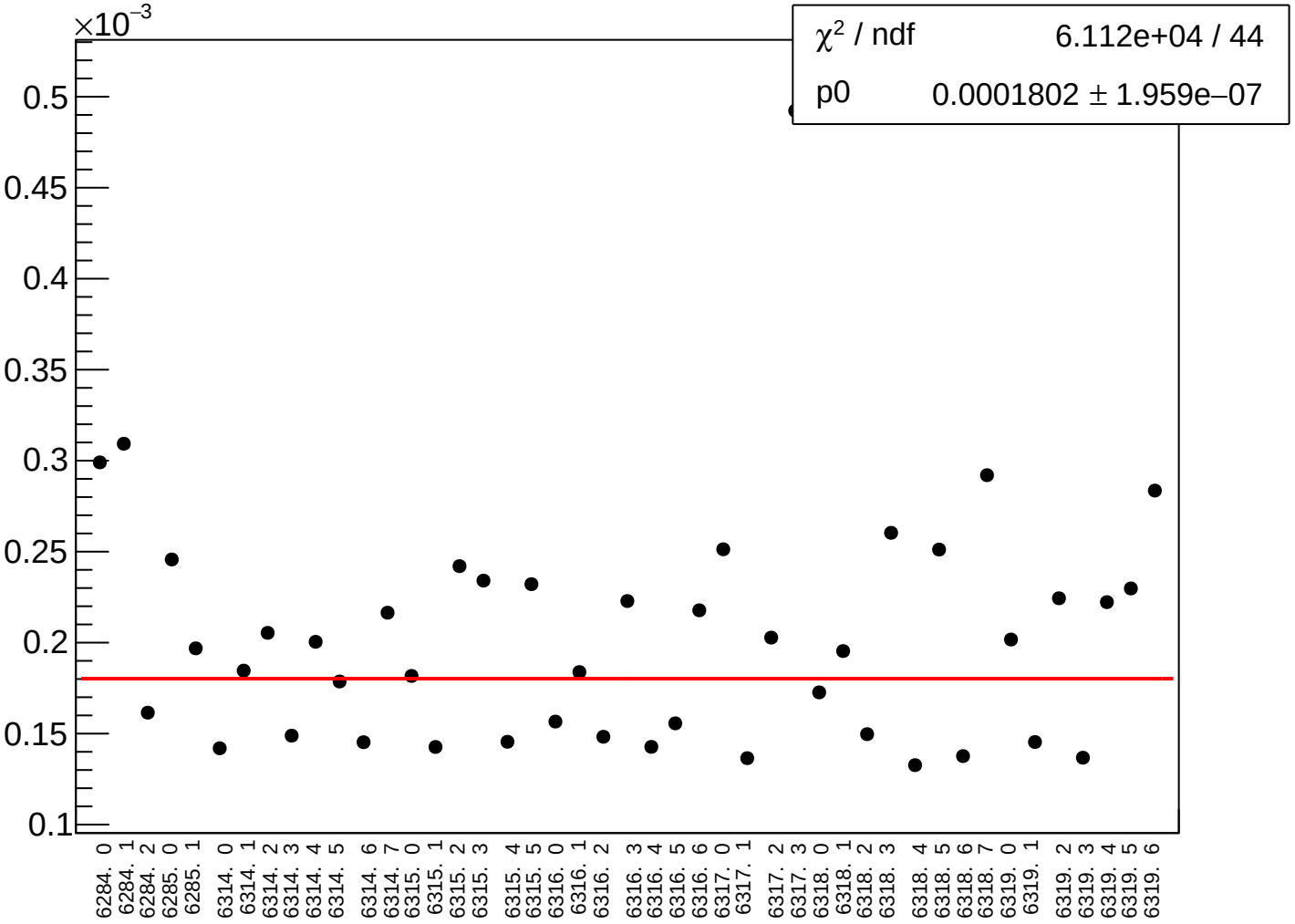

yield_atr1_mean vs run
χ² / ndf 2.088e+05 / 44
p0 0.03901± 2.181e–07
0.0393
0.0392
0.0391
0.039
0.0389
0.0388
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean –221.6
Std Dev 0
150
100
50
0
–50
–100
–150

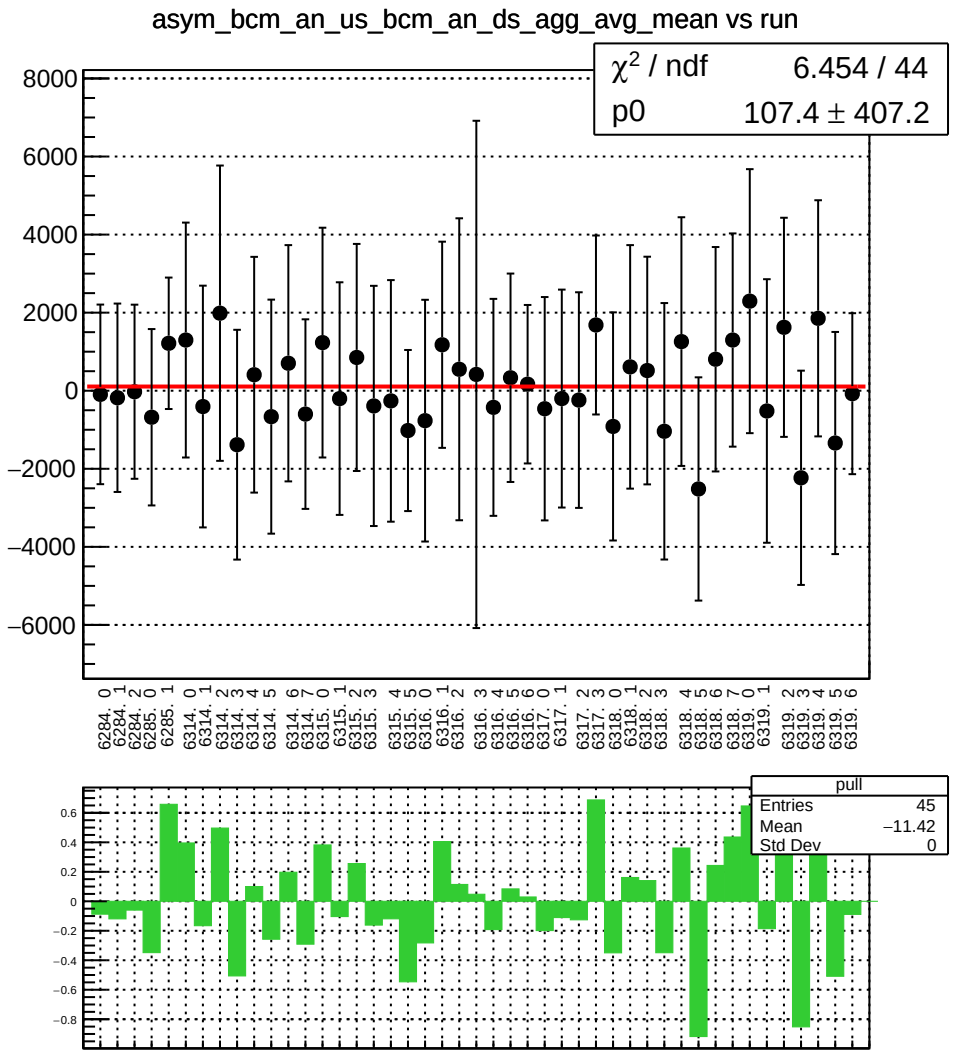

pull1D
Entries 45
Mean 2.596
Std Dev 3.404
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

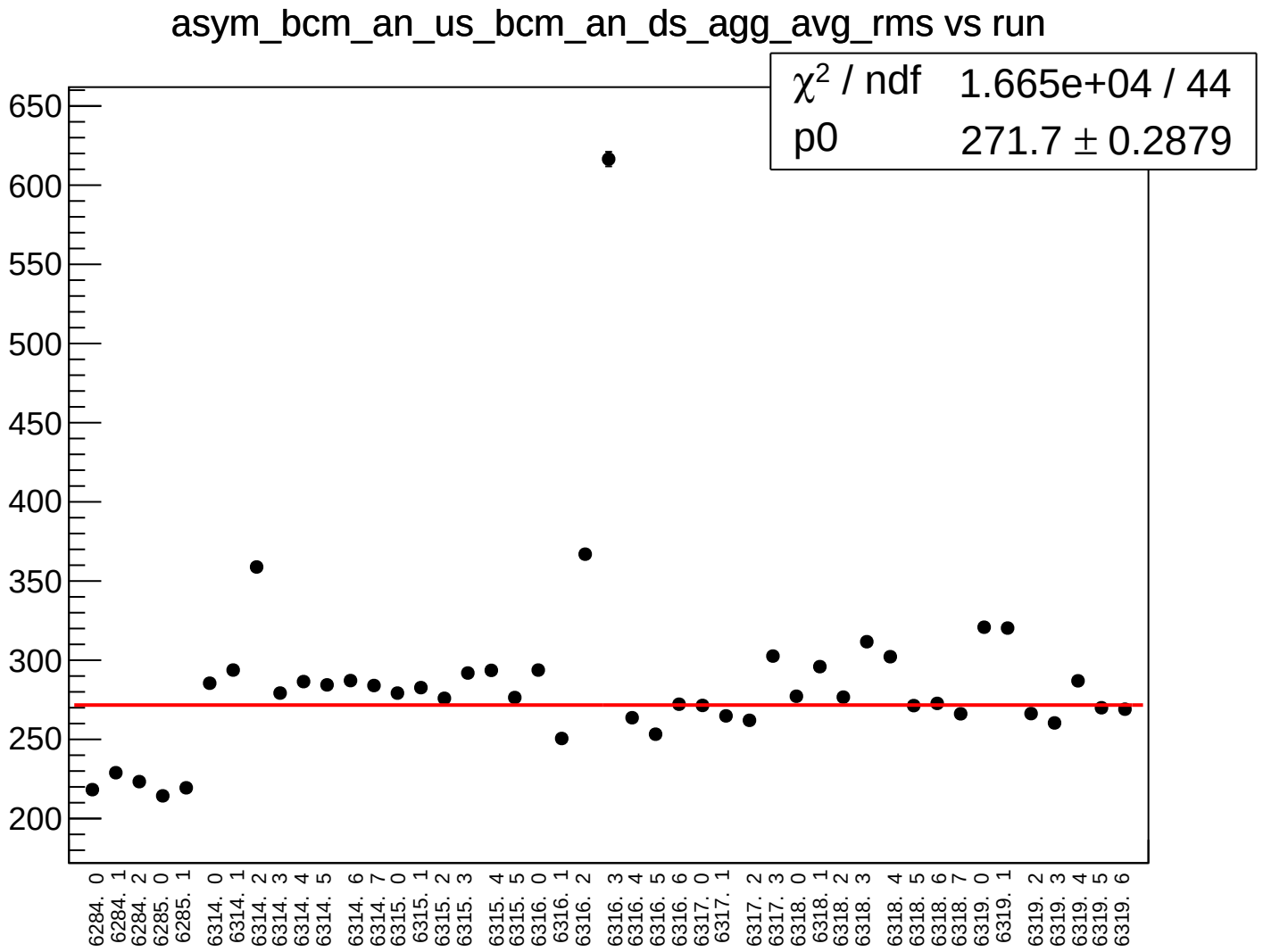

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.933e+04 / 44
p0 0.0001428 ± 1.542e−07
0.35
0.3
0.25
0.2
0.15
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

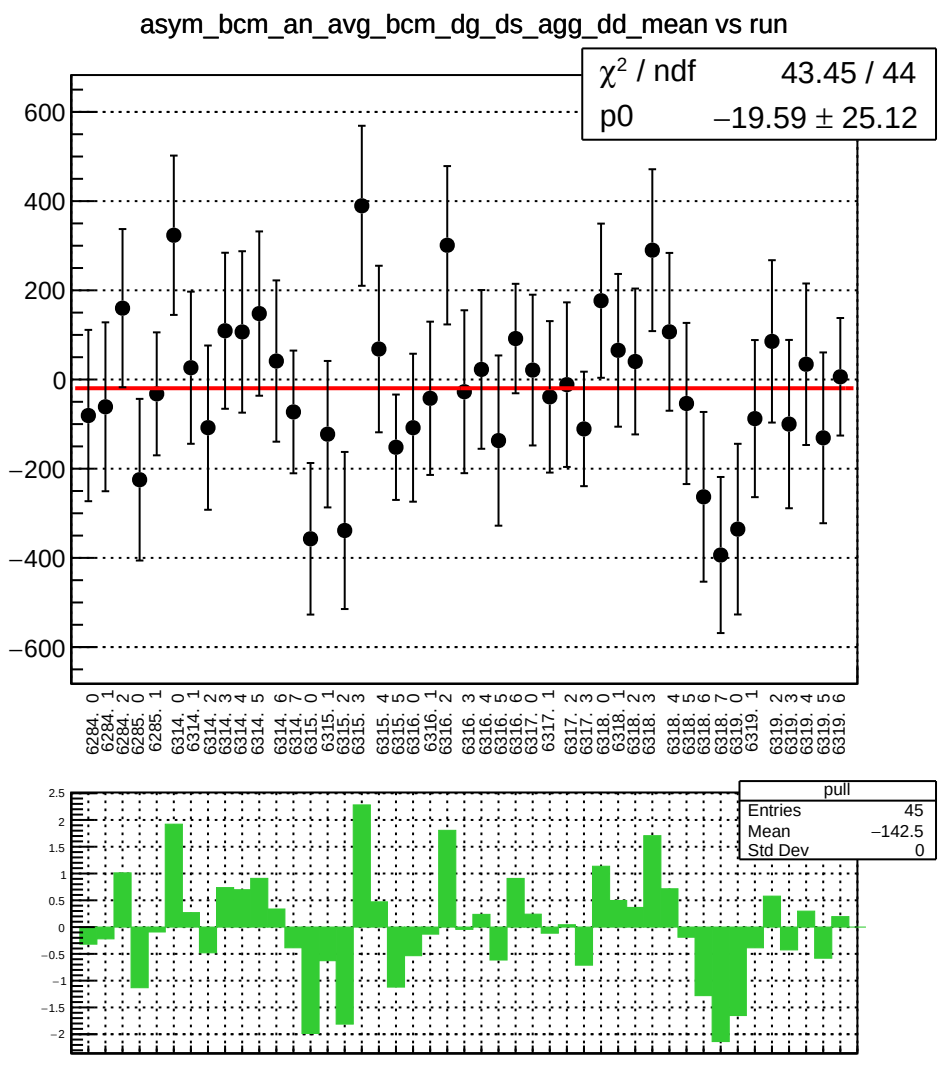

yield_atr2_mean vs run
χ² / ndf 1.432e+06 / 44
p0 0.01135 ± 2.771e–07
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104
0.0102
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean –133.8
Std Dev 0
100
0
–100
–200
–300
–400
–500
–600
–700

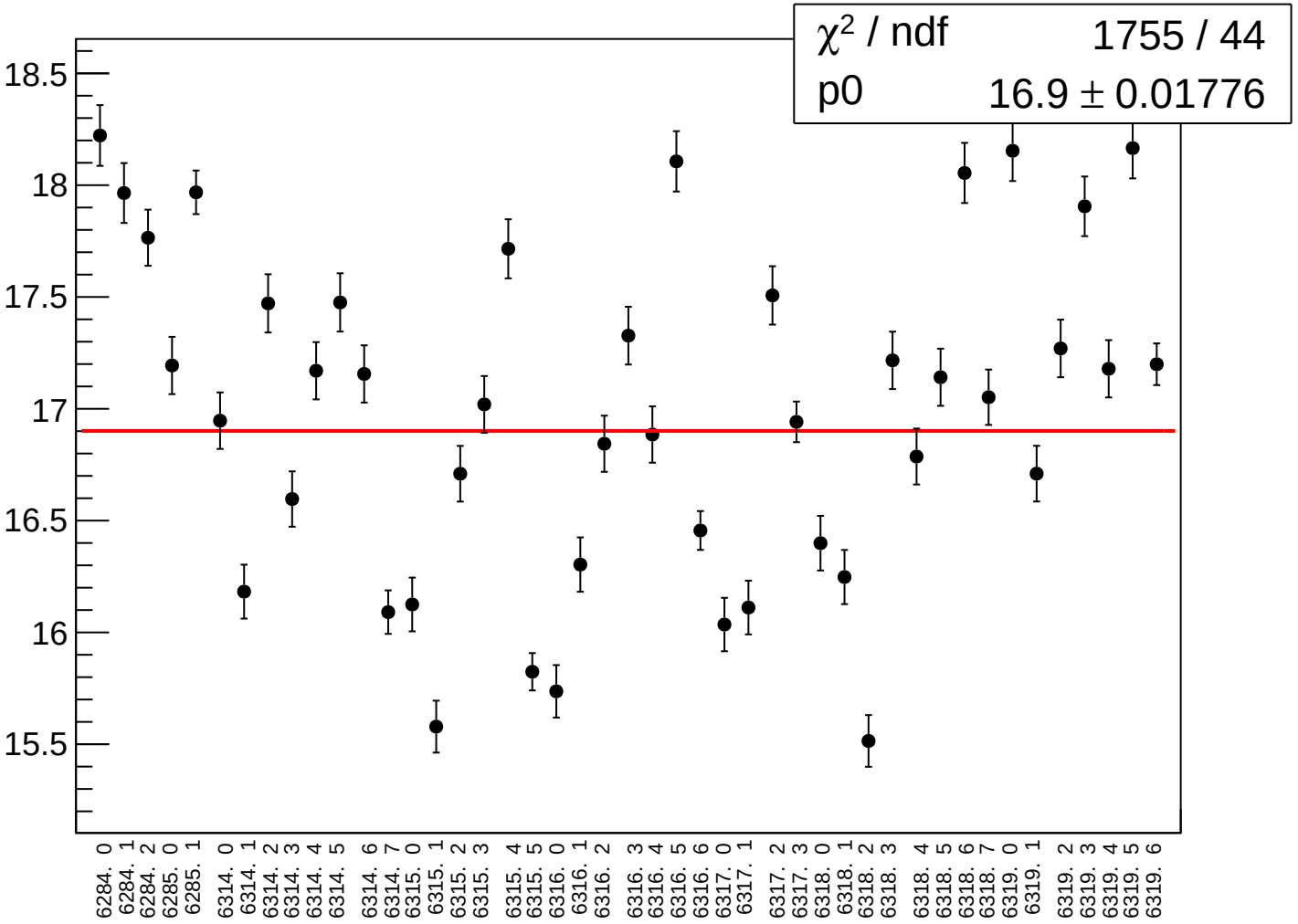

pull1D
Entries 45
Mean 3.969
Std Dev 2.246
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

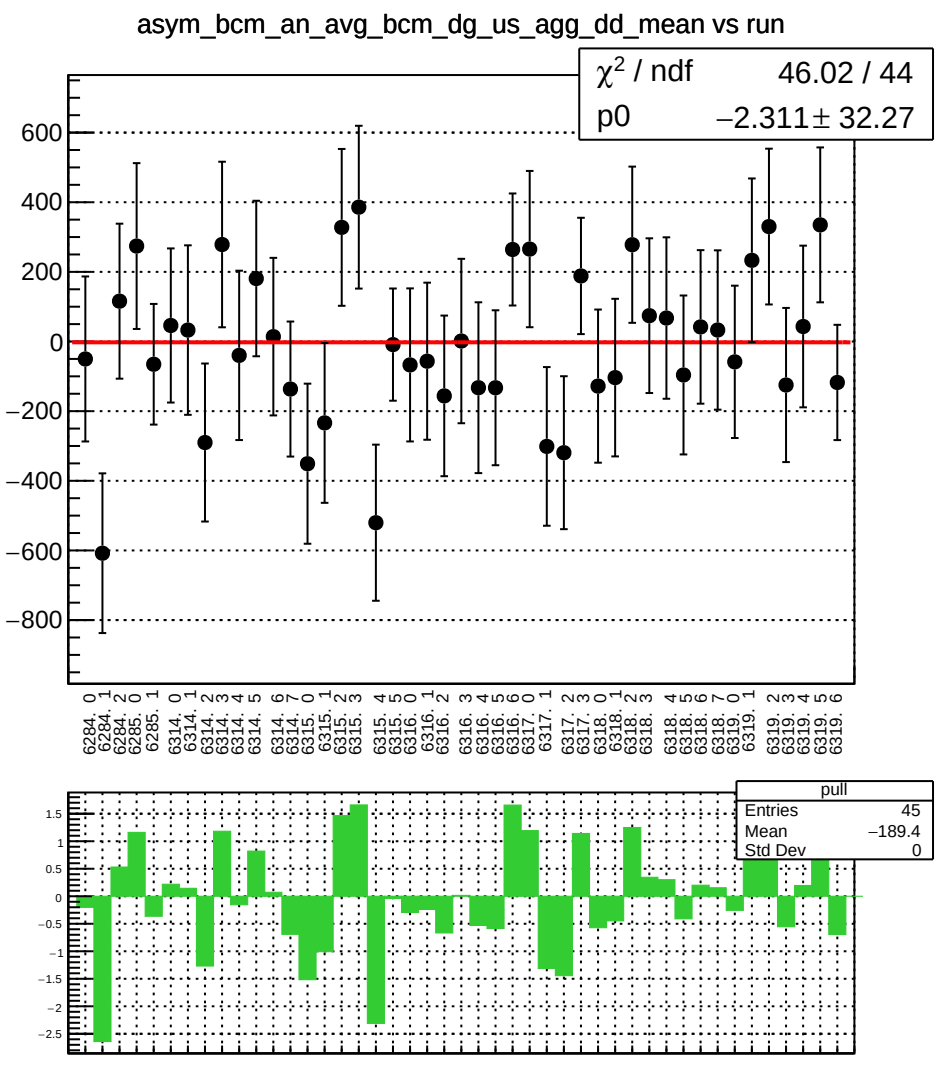

yield_atr2_rms vs run
×10⁻³
χ² / ndf 6.112e+04 / 44
p0 0.0001802 ± 1.959e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

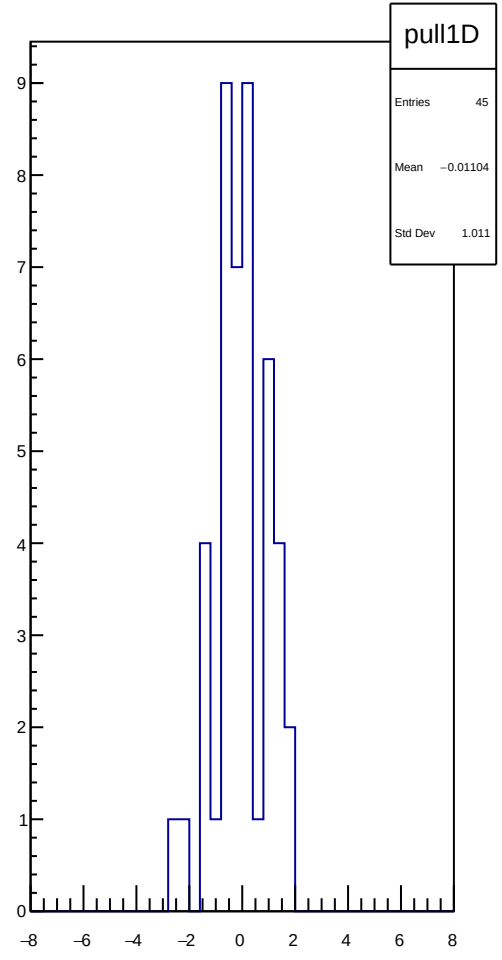

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.454 / 44
p0 107.4 ± 407.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.42
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0008147
Std Dev 0.3787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

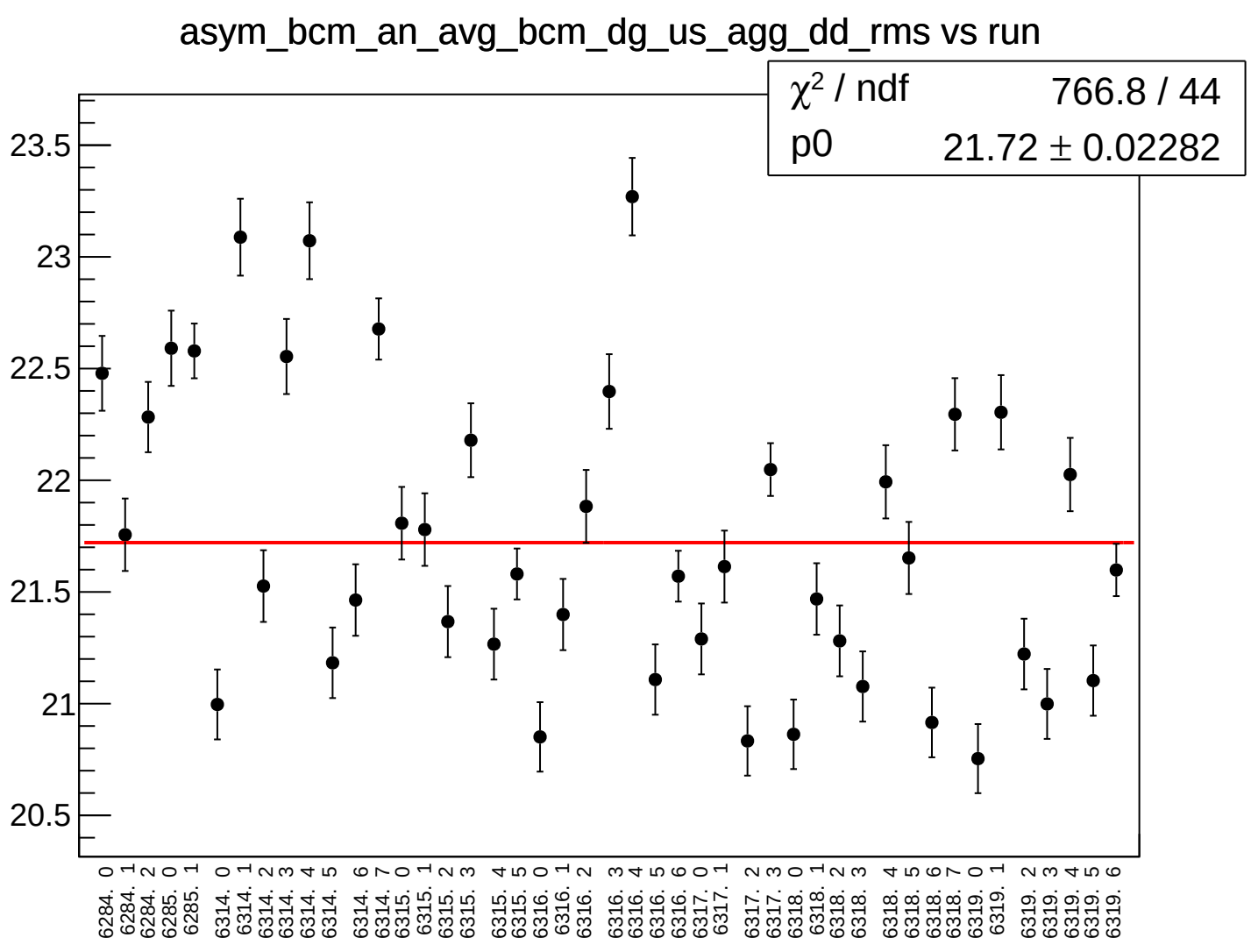

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.665e+04 / 44
p0 271.7 ± 0.2879
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

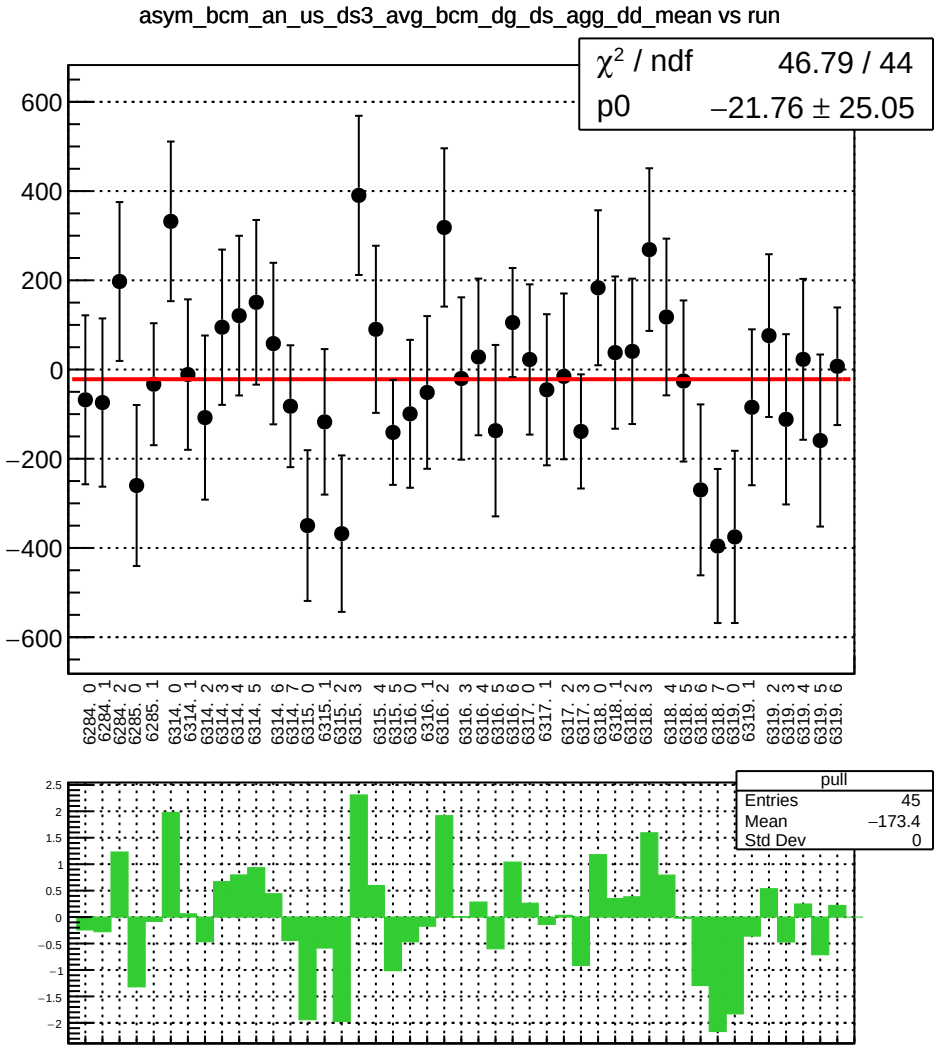

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 43.45 / 44
p0 −19.59 ± 25.12
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −142.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008673
Std Dev 0.9826
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

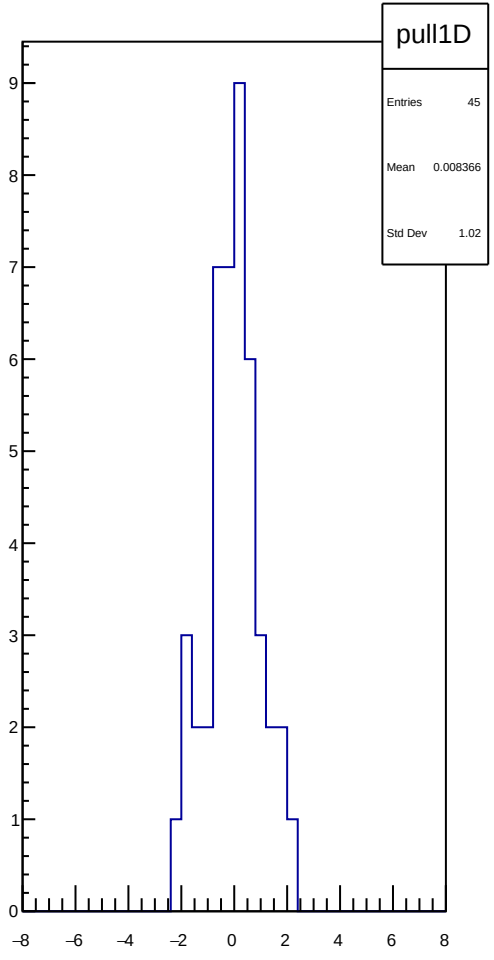

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1755 / 44
p0 16.9 ± 0.01776
18.5
18
17.5
17
16.5
16
15.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

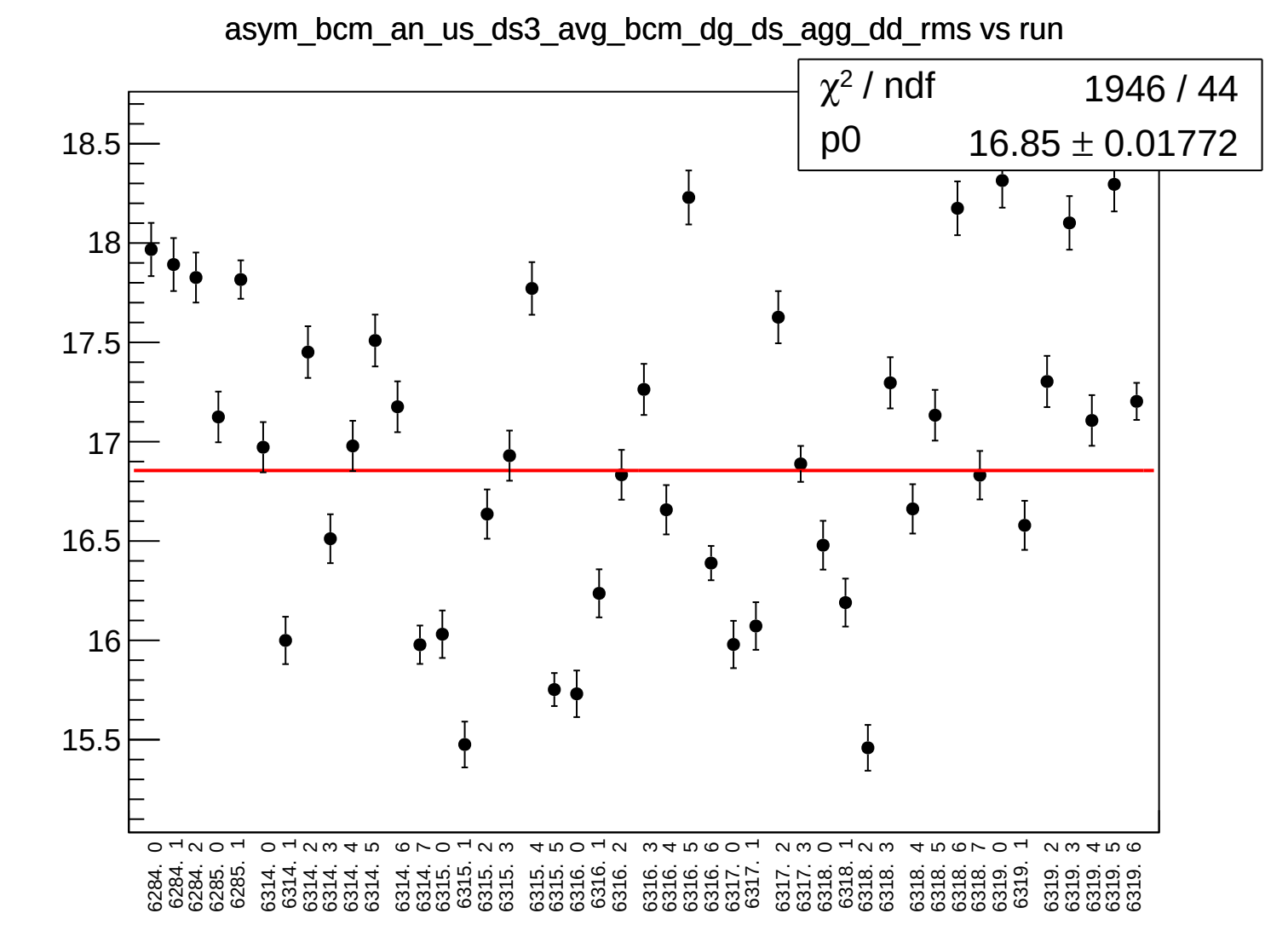

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.02 / 44
p0 −2.311 ± 32.27
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −189.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01104
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 766.8 / 44
p0 21.72 ± 0.02282
23.5
23
22.5
22
21.5
21
20.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.79 / 44
p0 −21.76 ± 25.05
pull
Entries 45
Mean −173.4
Std Dev 0


pull1D
Entries 45
Mean 0.008366
Std Dev 1.02


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1946 / 44
p0 16.85 ± 0.01772
18.5
18
17.5
17
16.5
16
15.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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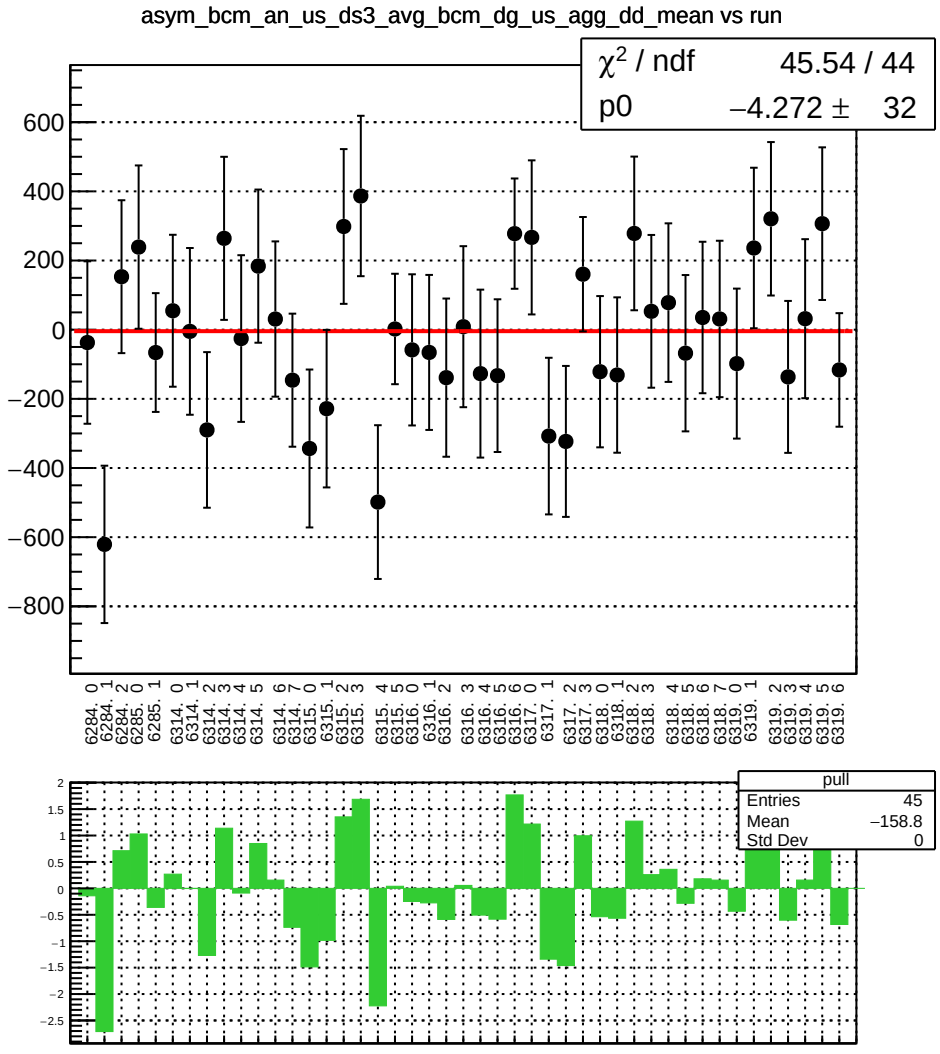
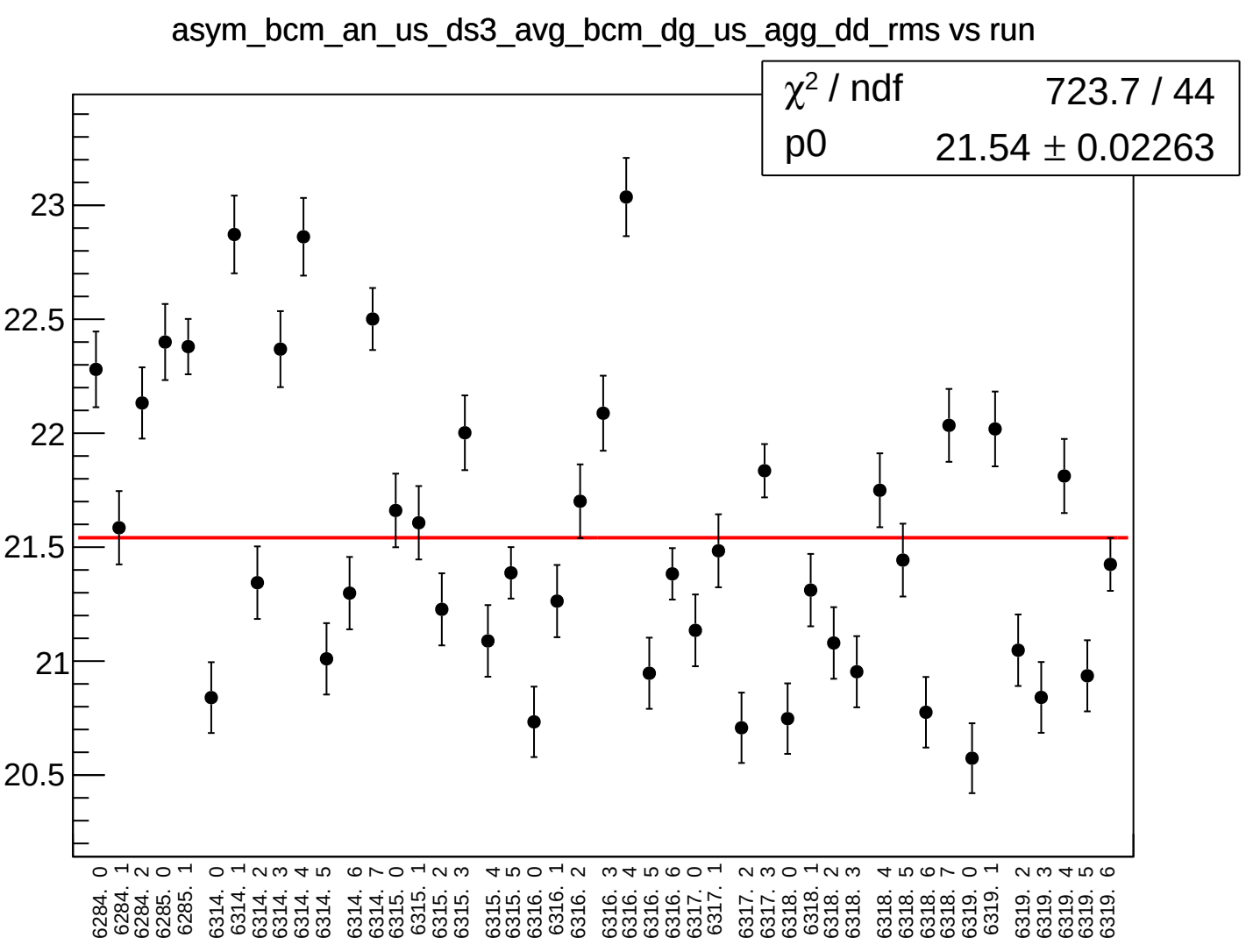
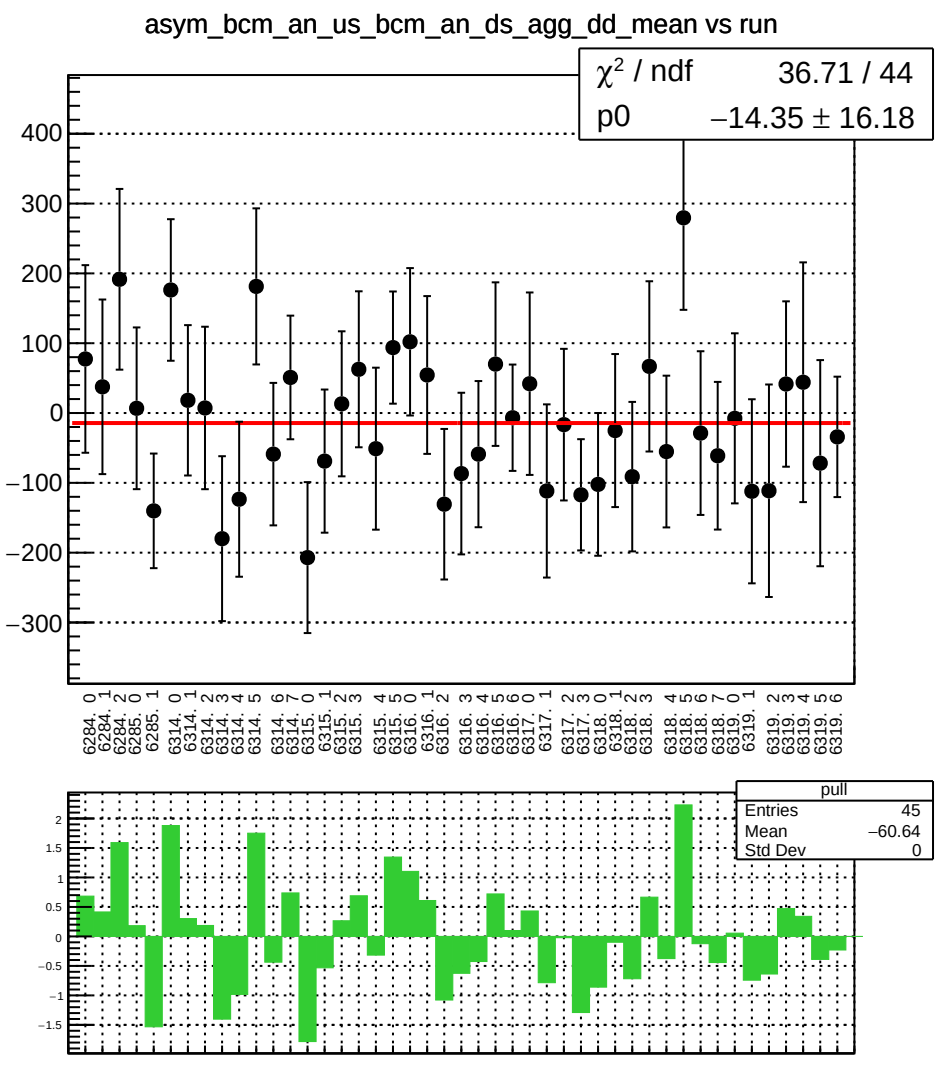
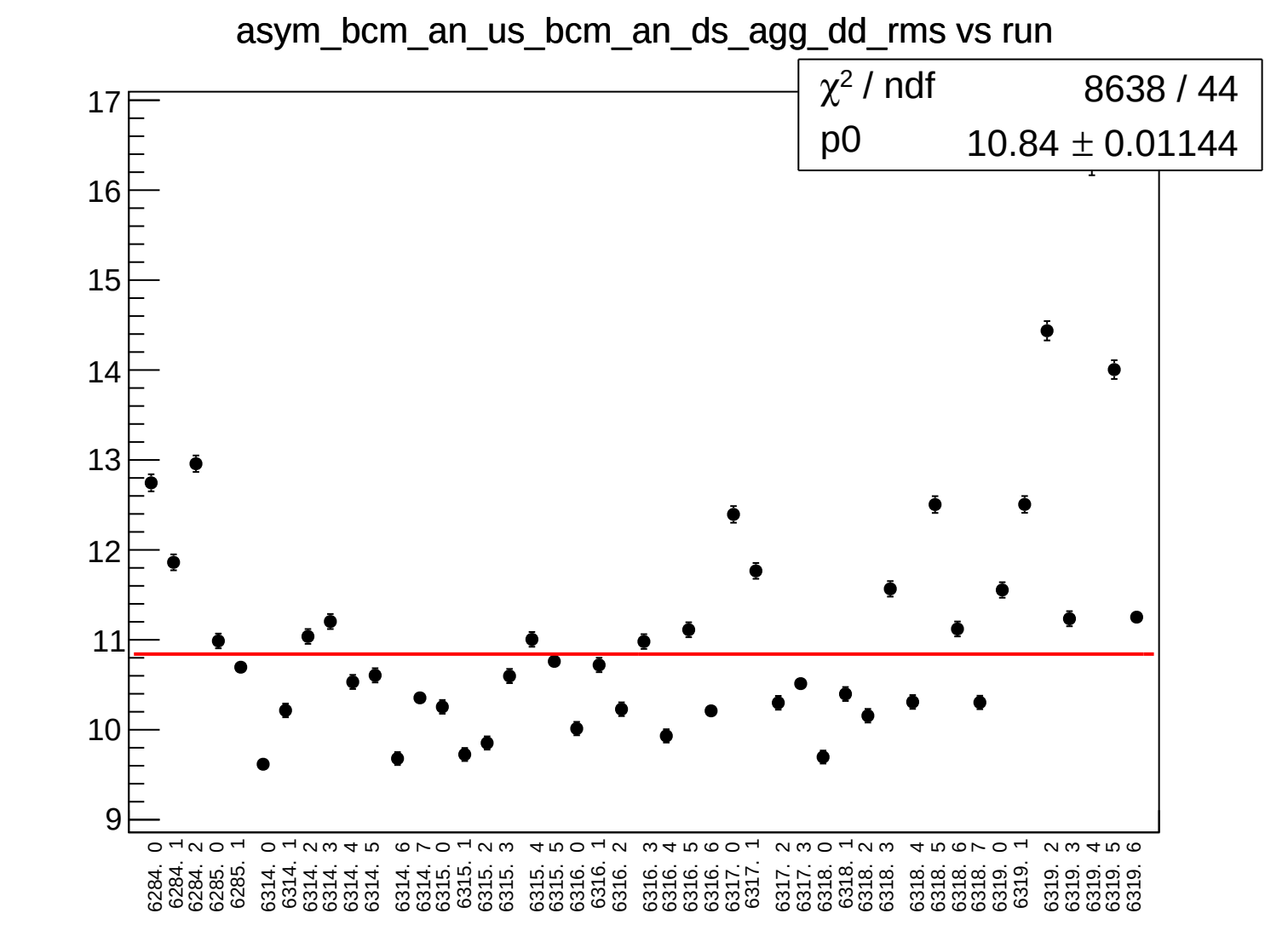
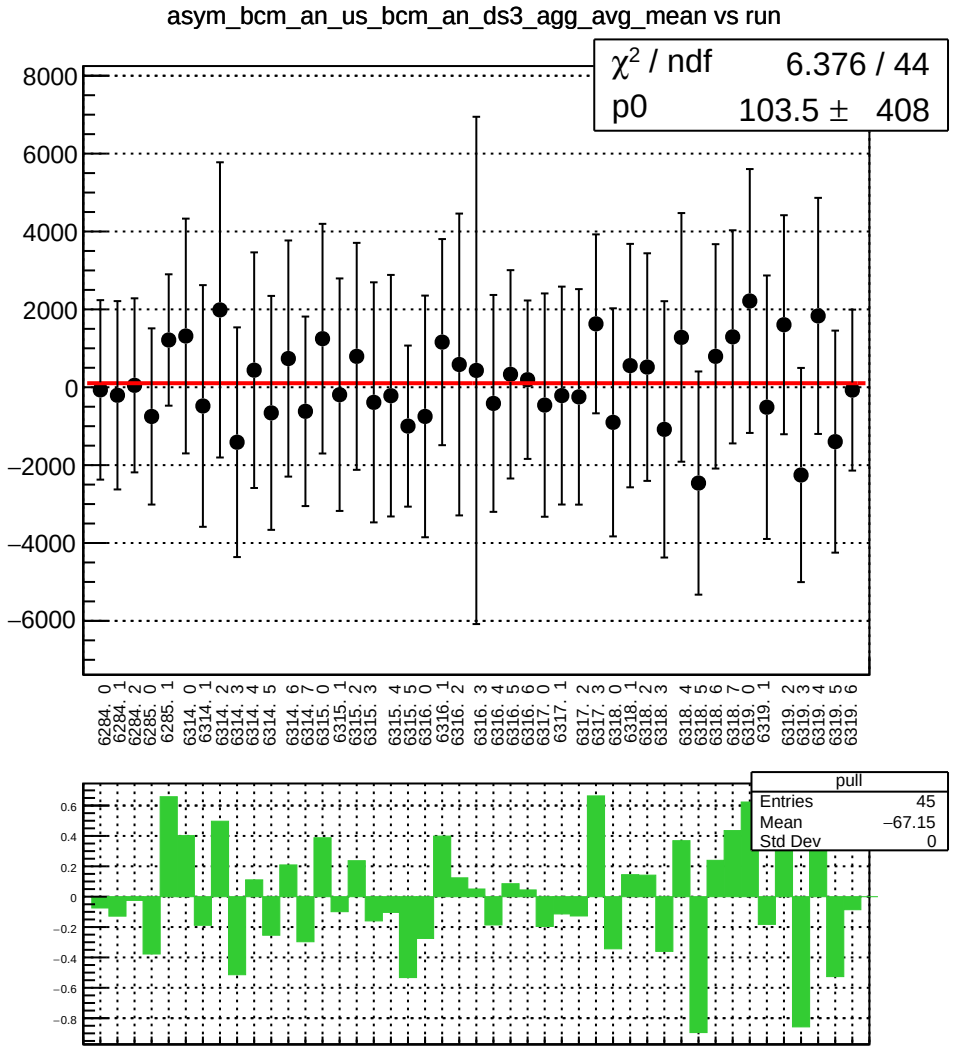
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

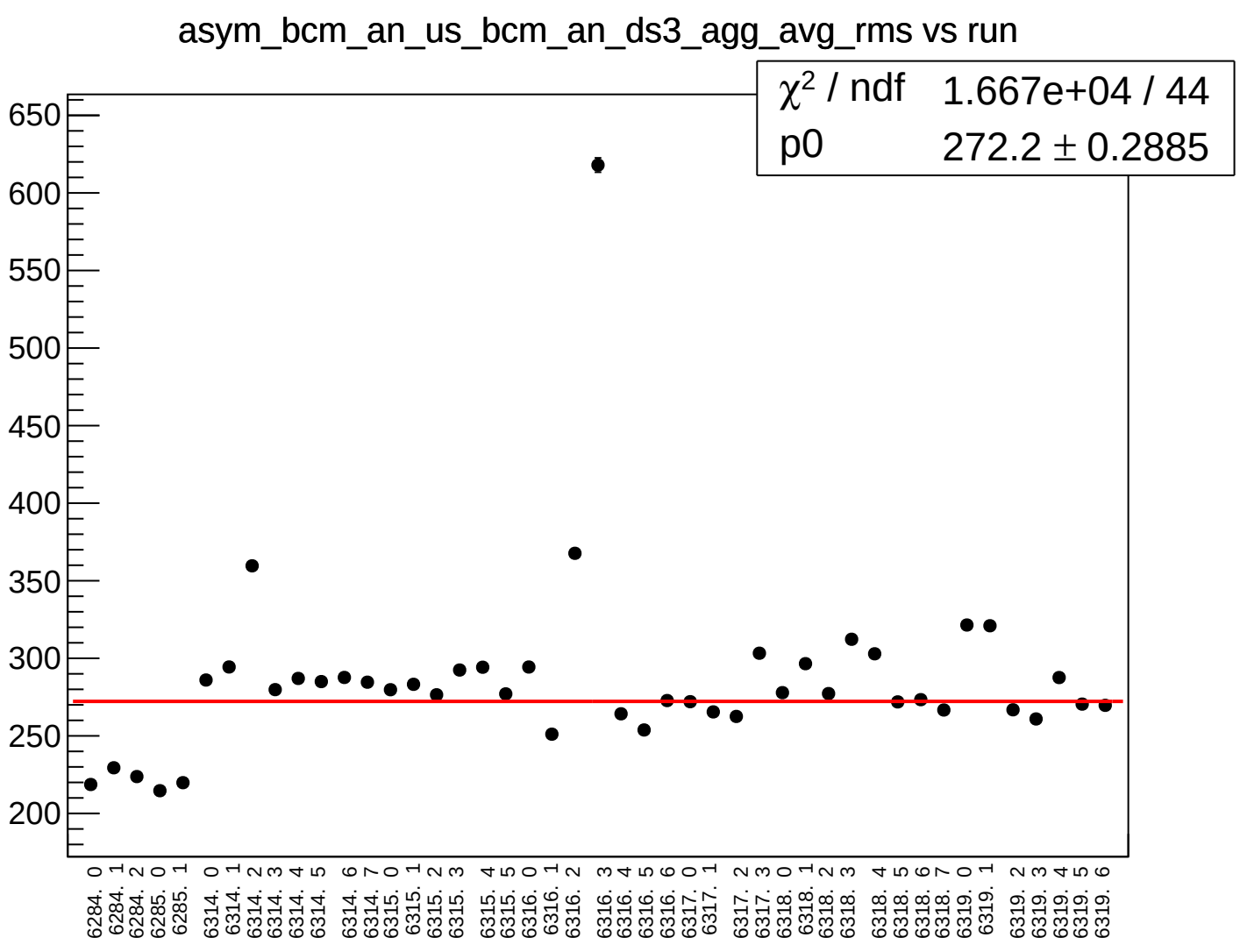

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 45.54 / 44
p0 −4.272 ± 32
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −158.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01193
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

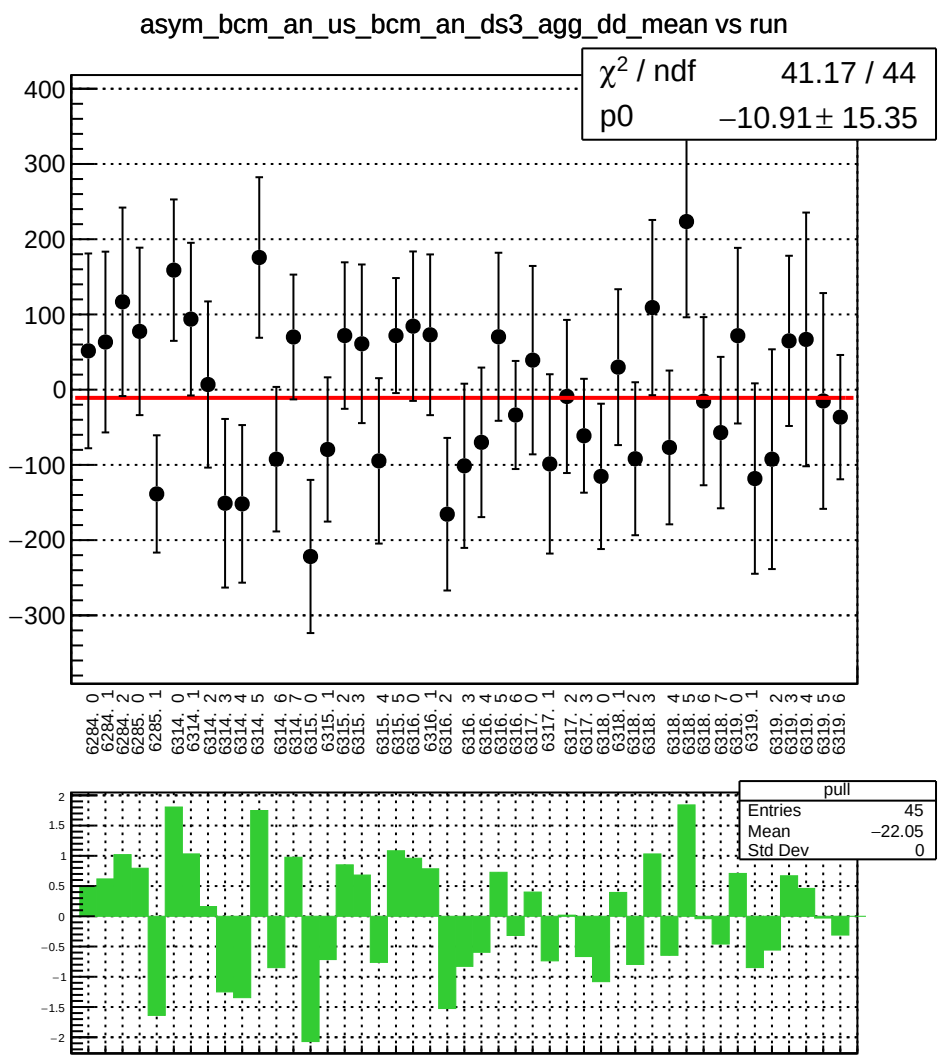

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 723.7 / 44
p0 21.54 ± 0.02263
23
22.5
22
21.5
21
20.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

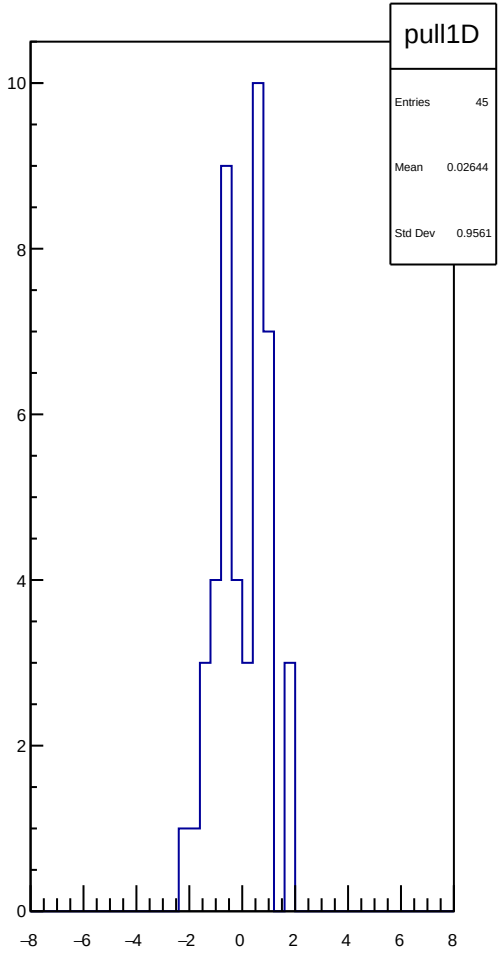

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.71 / 44
p0 −14.35 ± 16.18
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −60.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02066
Std Dev 0.903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

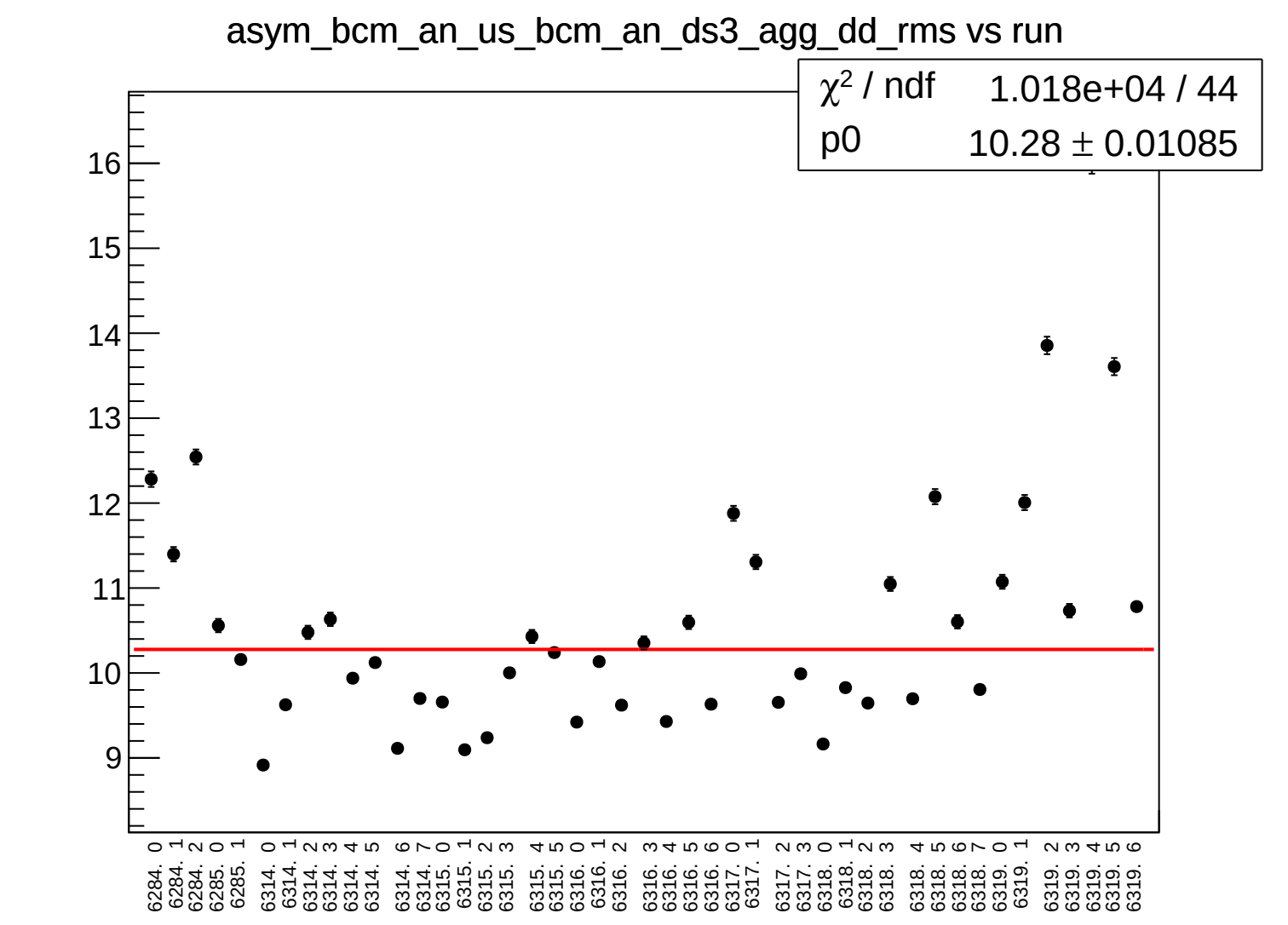

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8638 / 44
p0 10.84 ± 0.01144
17
16
15
14
13
12
11
10
9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

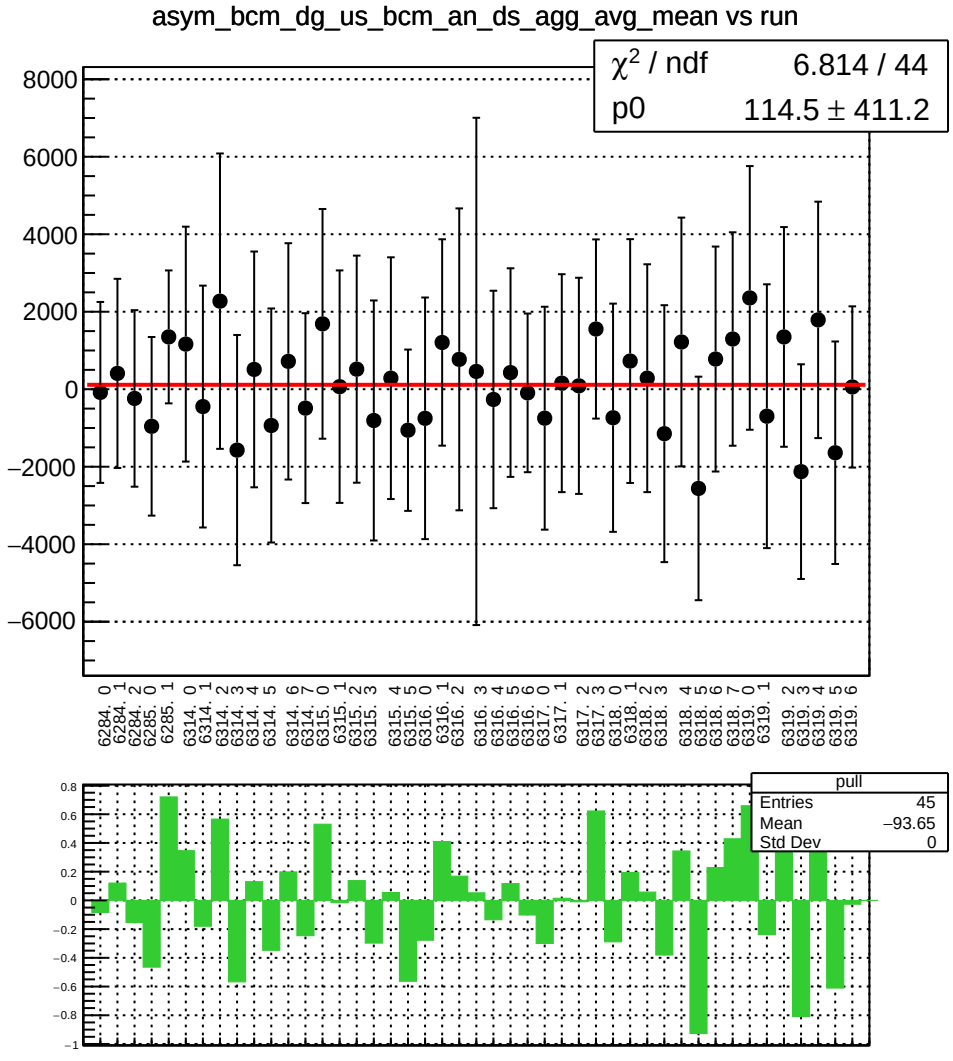

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 6.376 / 44
p0 103.5 ± 408
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −67.15
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0006257
Std Dev 0.3764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

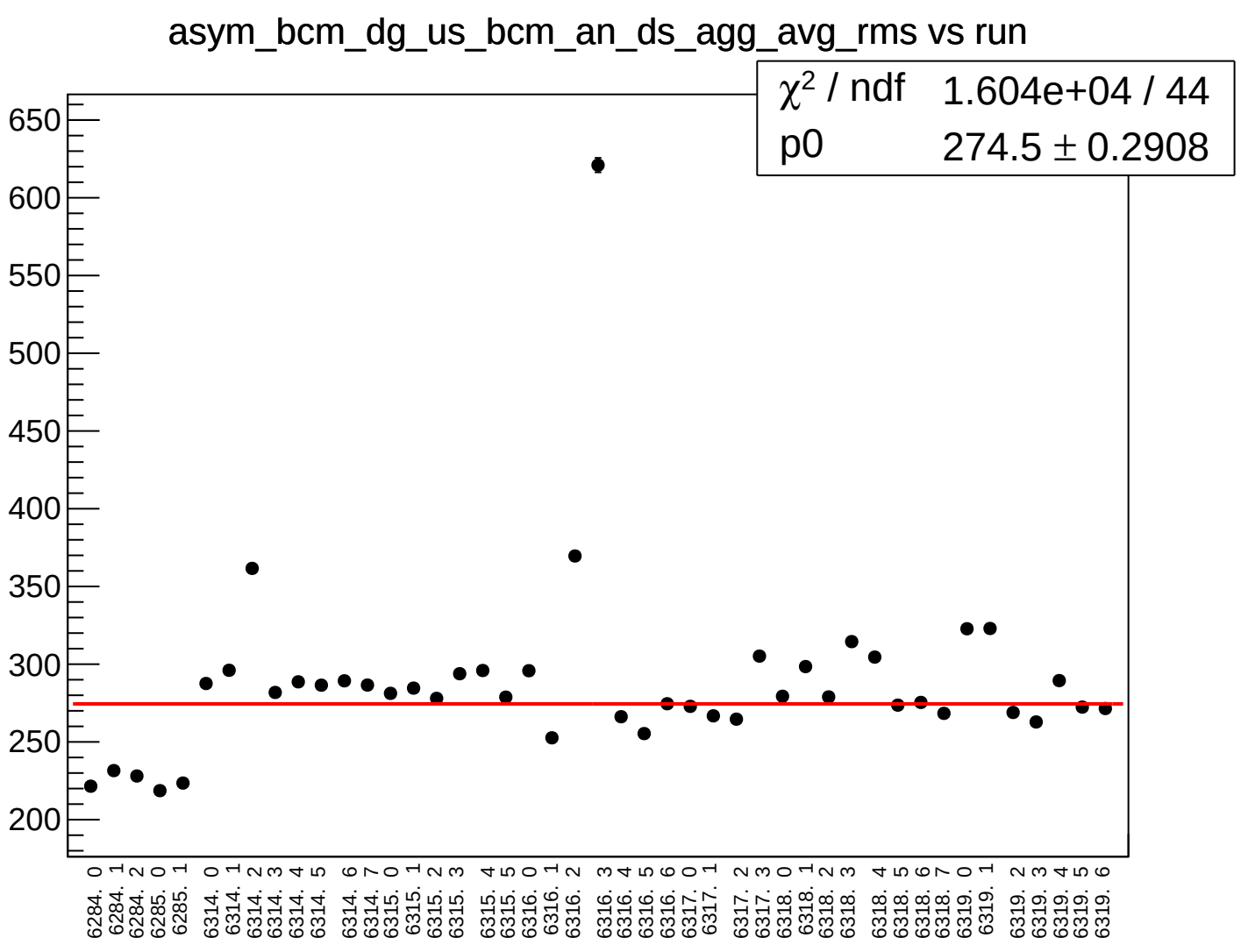

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.667e+04 / 44
p0 272.2 ± 0.2885
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

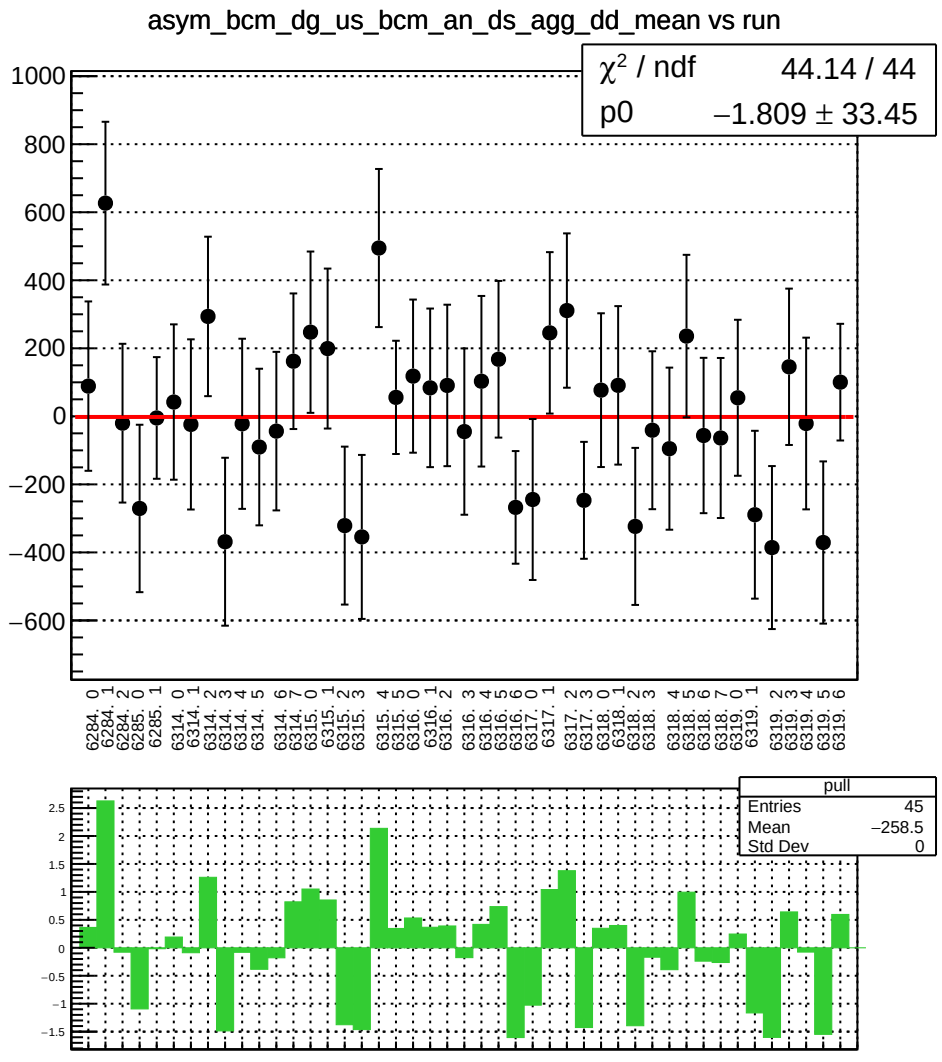

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 41.17 / 44
p0 −10.91± 15.35
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −22.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

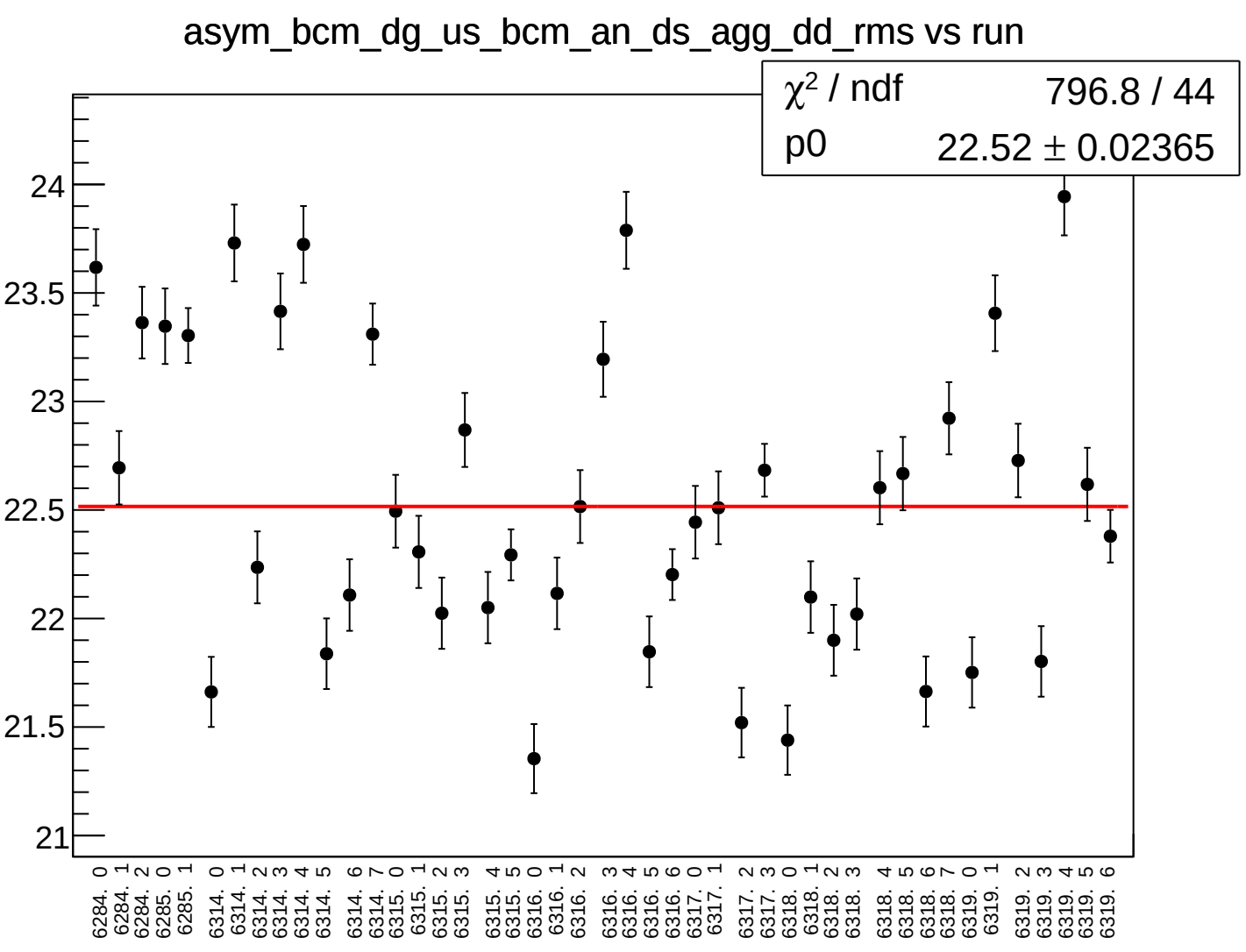

pull1D
Entries 45
Mean 0.02644
Std Dev 0.9561
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

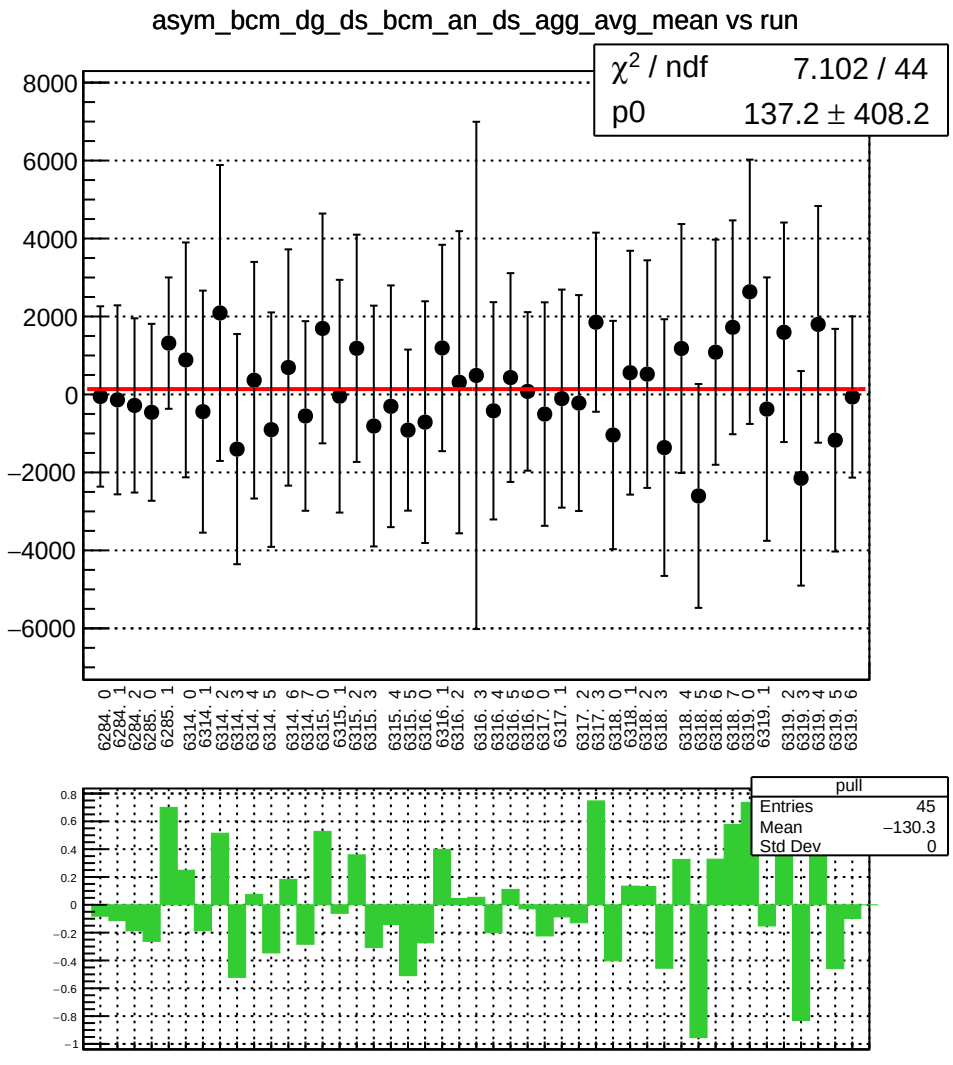

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.018e+04 / 44
p0 10.28 ± 0.01085
16
15
14
13
12
11
10
9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

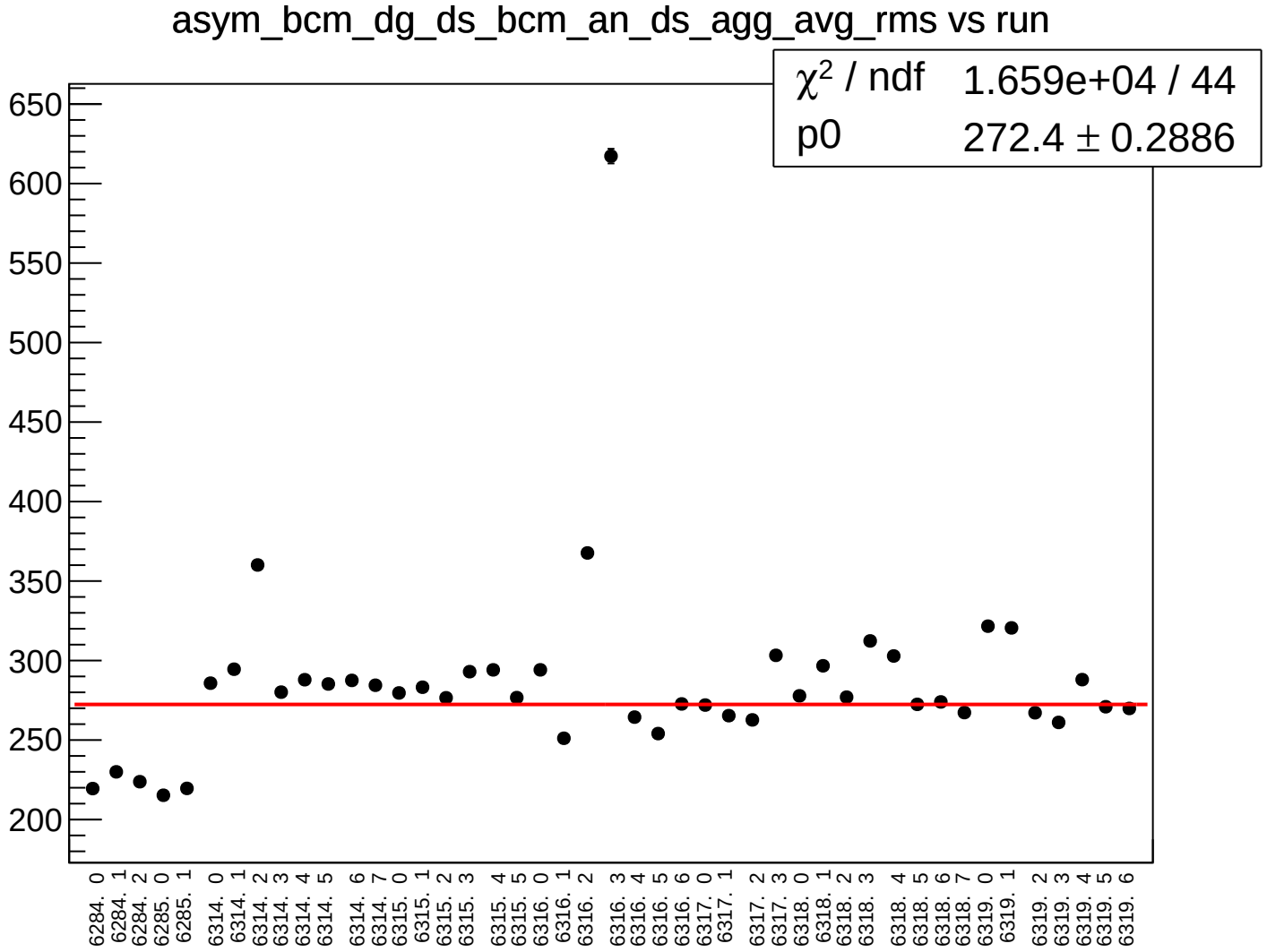

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.814 / 44
p0 114.5 ± 411.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −93.65
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.001429
Std Dev 0.3891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

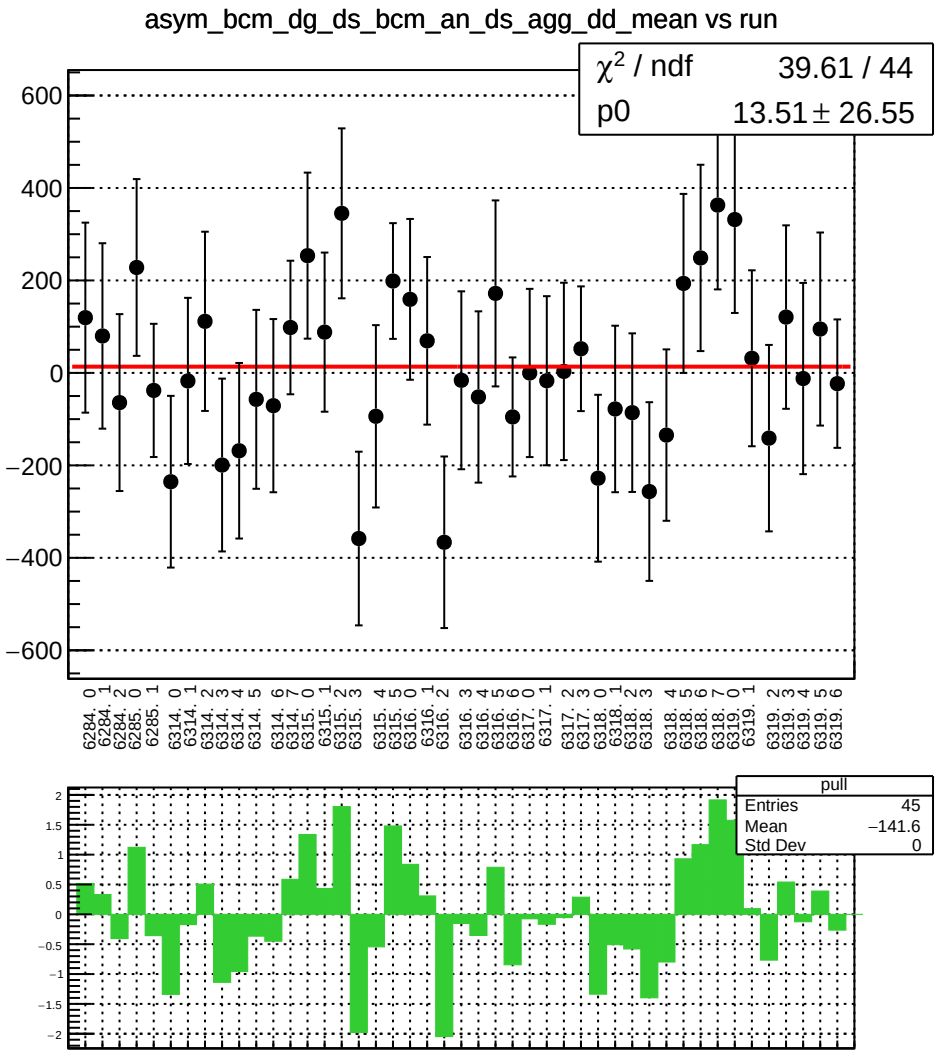

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.604e+04 / 44
p0 274.5 ± 0.2908
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

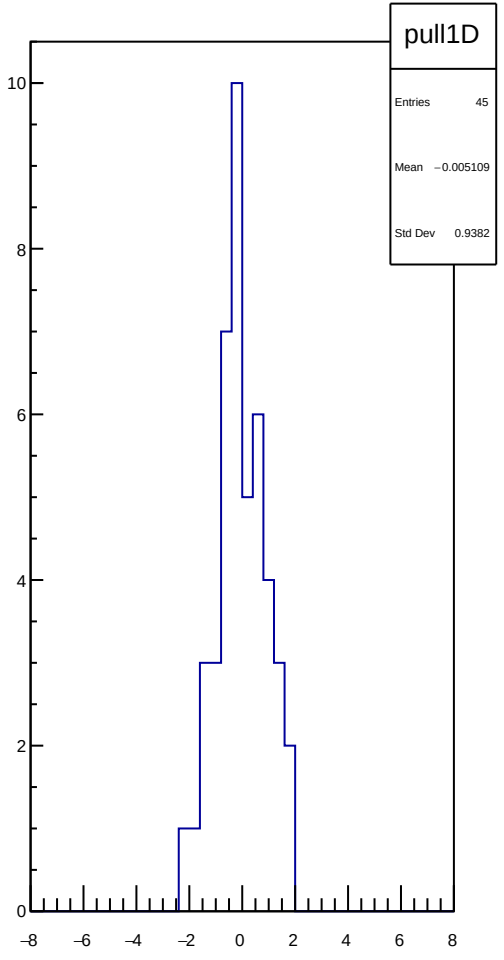

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.14 / 44
p0 −1.809 ± 33.45
1000
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −258.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009428
Std Dev 0.9904
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

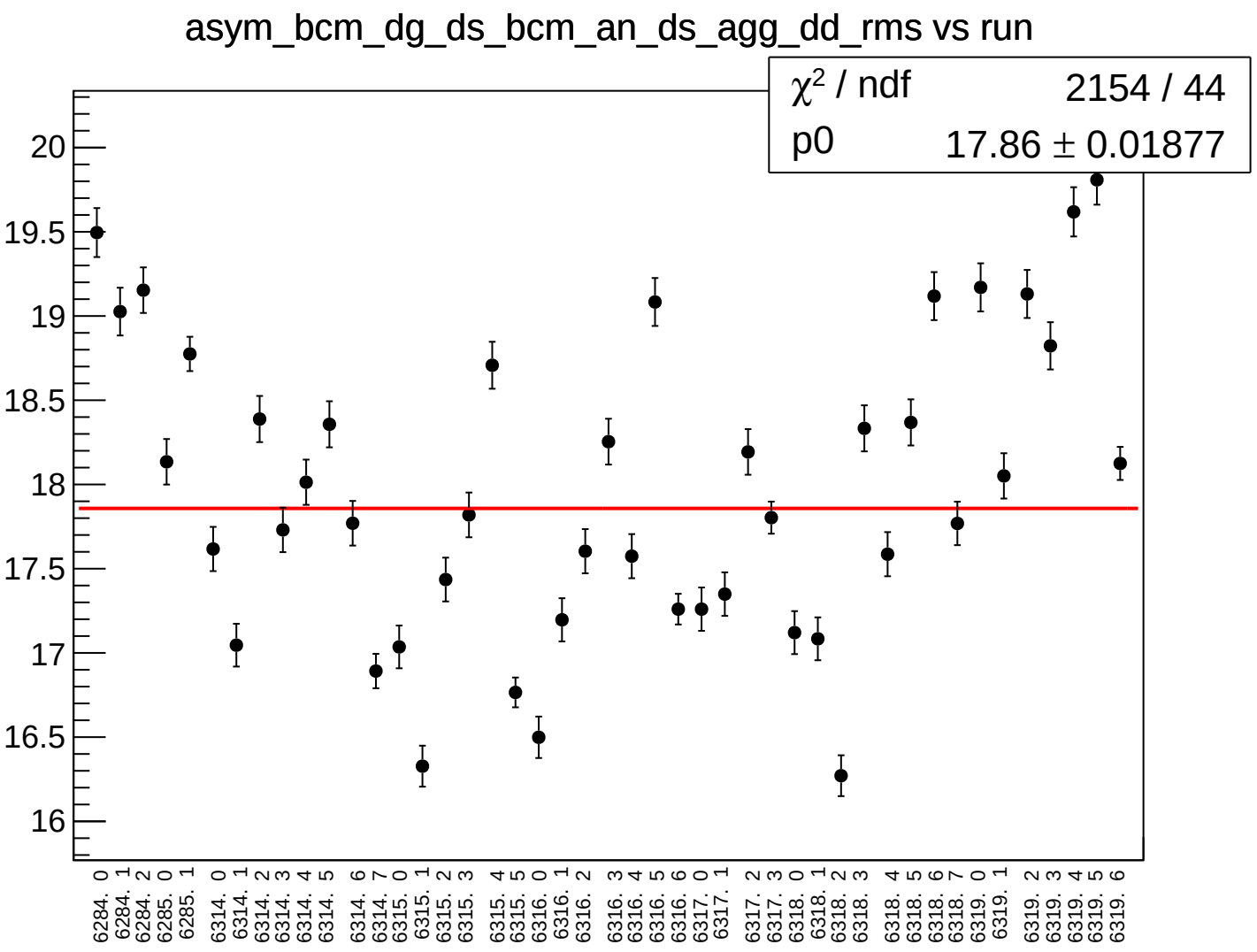

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 796.8 / 44
p0 22.52 ± 0.02365
24
23.5
23
22.5
22
21.5
21
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.102 / 44
p0 137.2 ± 408.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −130.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.0006442
Std Dev 0.3973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.659e+04 / 44
p0 272.4 ± 0.2886
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.61 / 44
p0 13.51 ± 26.55
pull
Entries 45
Mean −141.6
Std Dev 0


pull1D
Entries 45
Mean −0.005109
Std Dev 0.9382


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2154 / 44
p0 17.86 ± 0.01877
20
19.5
19
18.5
18
17.5
17
16.5
16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 2
6319. 3
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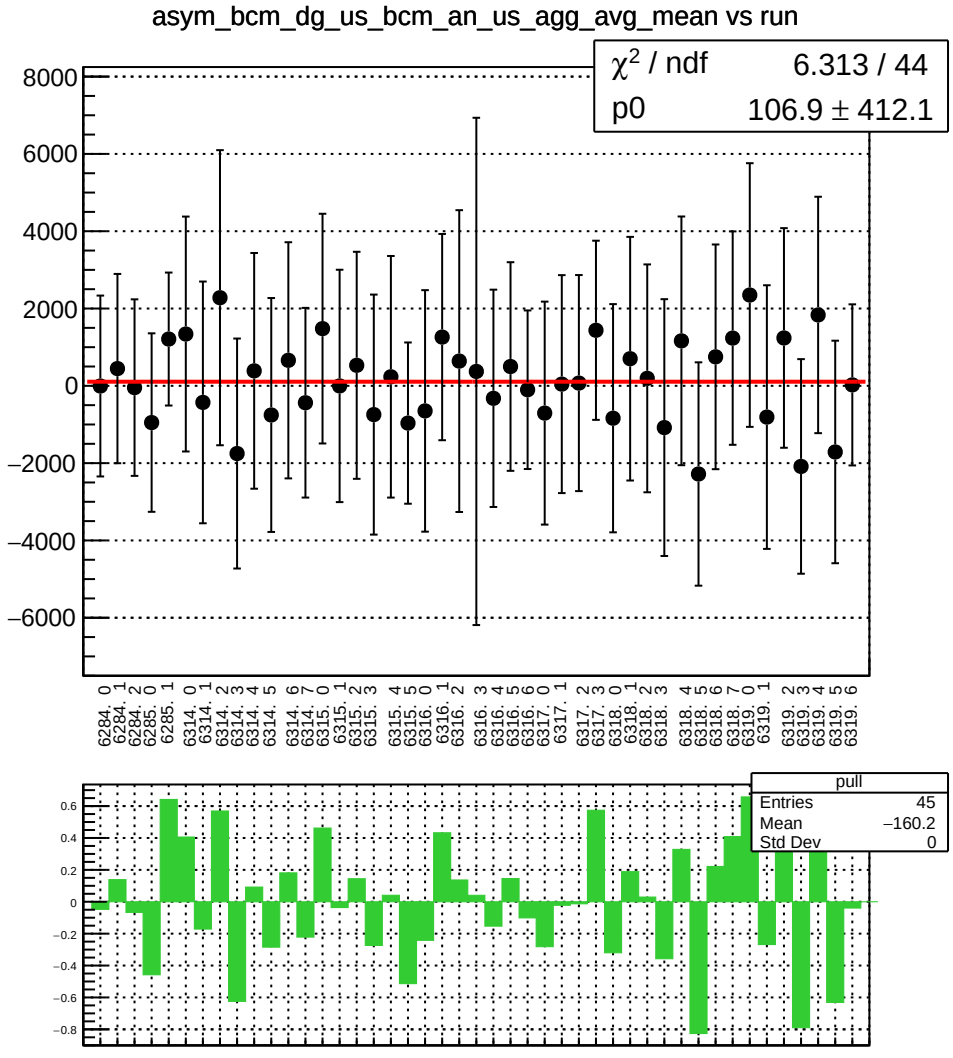
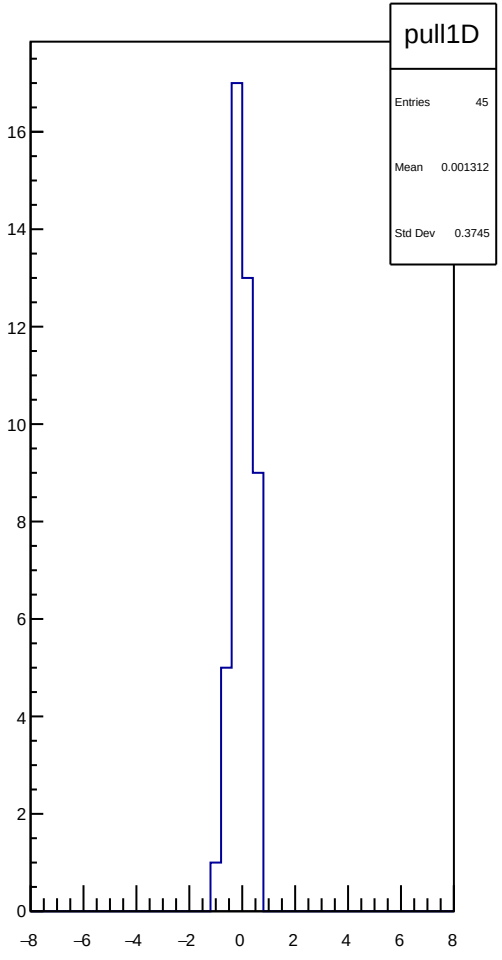
6319. 5
6319. 6


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.313 / 44
p0 106.9 ± 412.1
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −160.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 45
Mean 0.001312
Std Dev 0.3745
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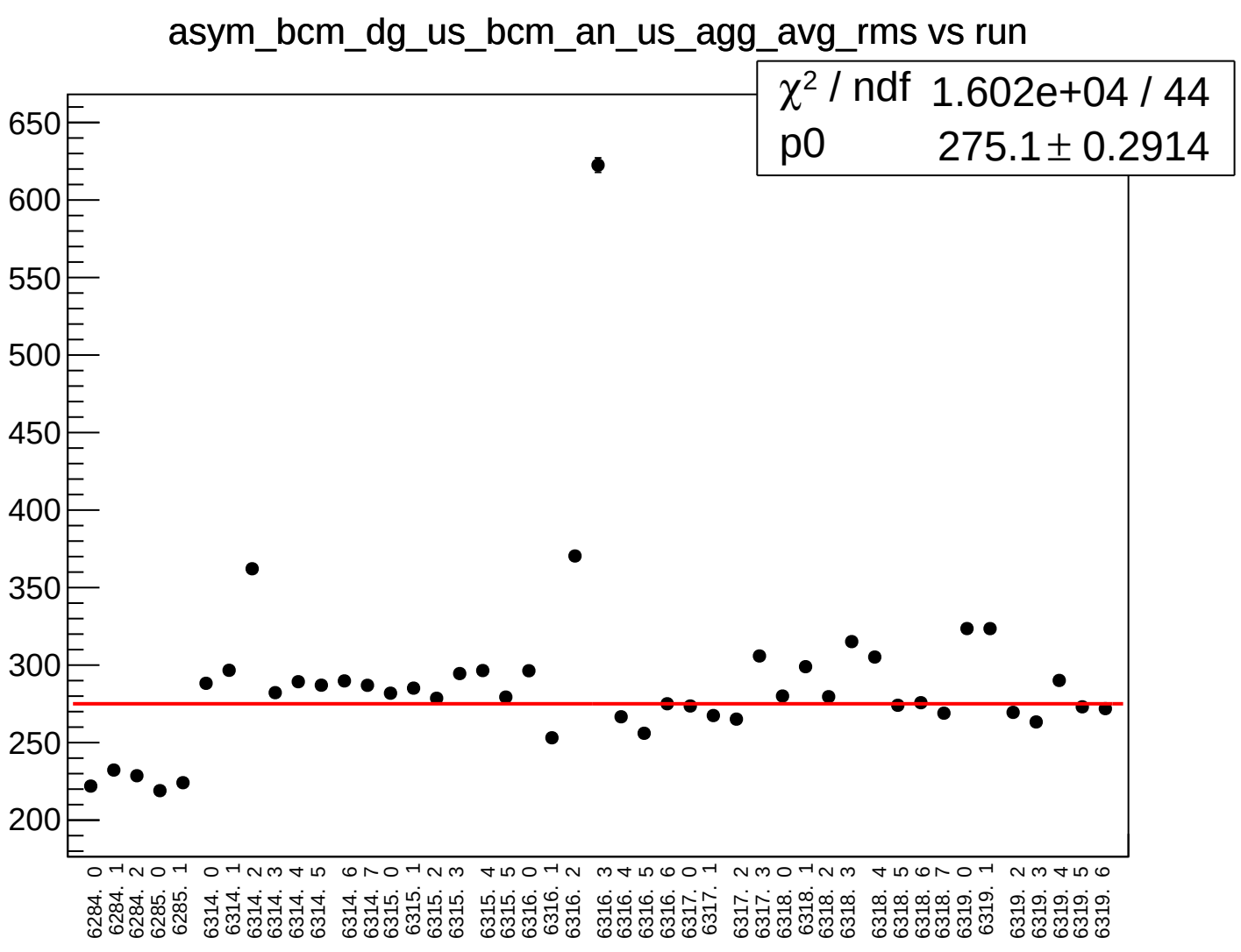
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.602e+04 / 44
p0 275.1 ± 0.2914
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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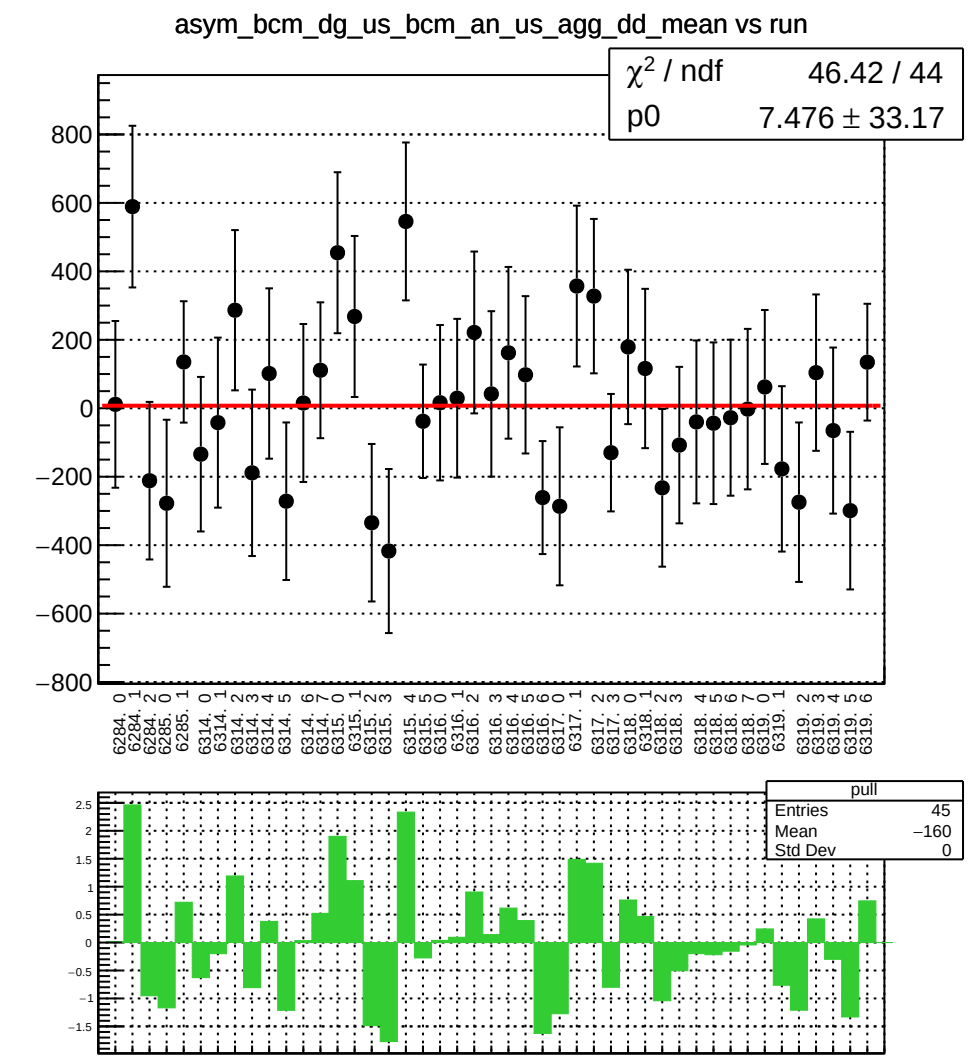
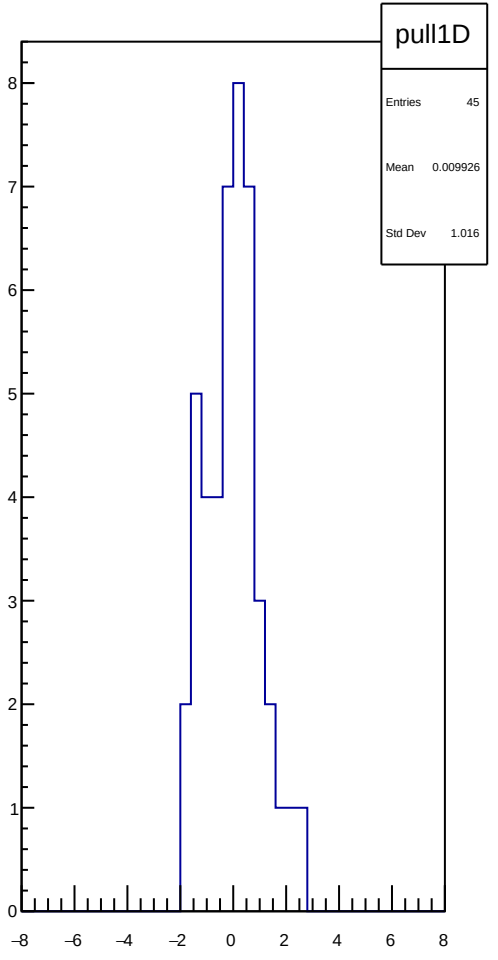
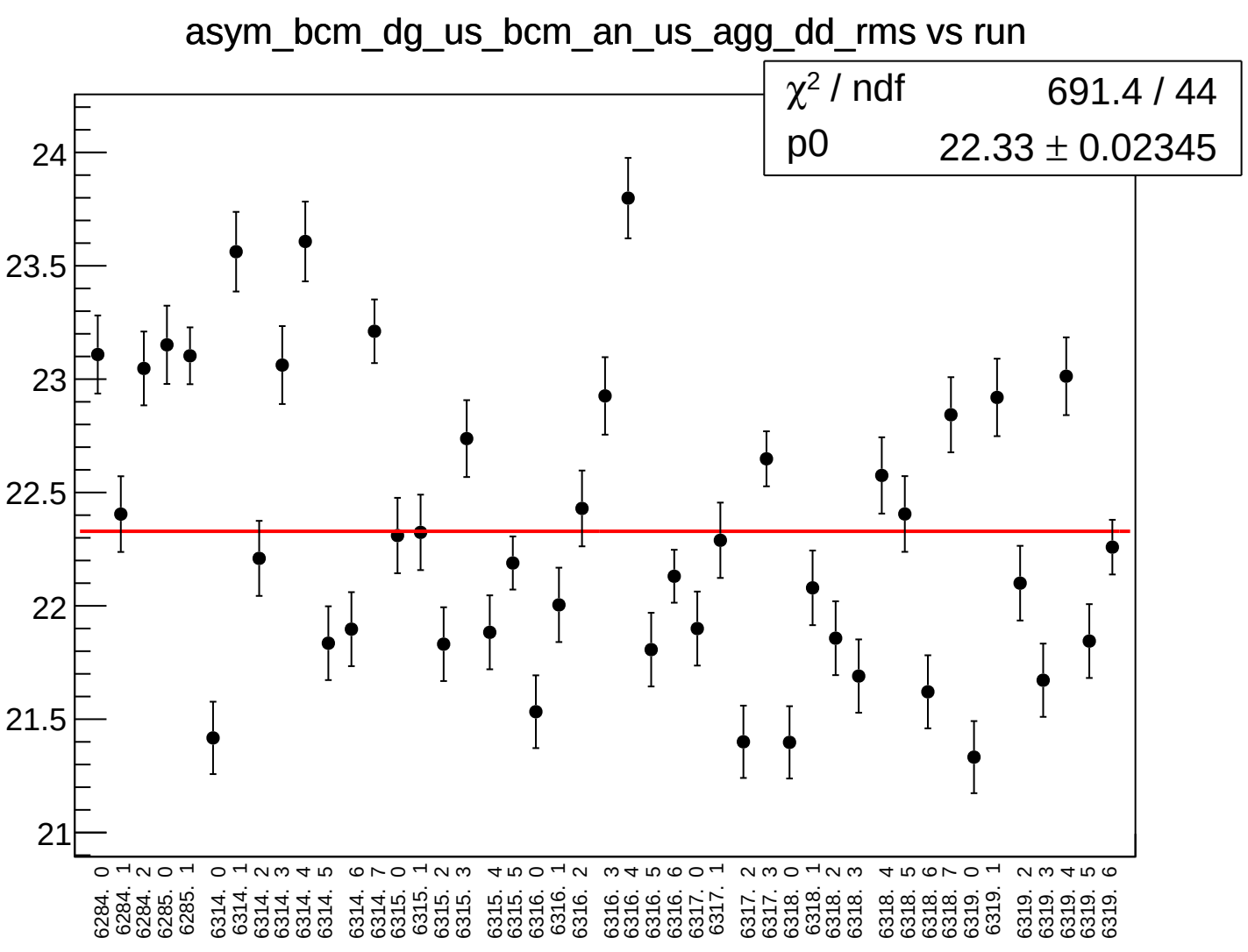
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.42 / 44
p0 7.476 ± 33.17
800
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009926
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 691.4 / 44
p0 22.33 ± 0.02345
24
23.5
23
22.5
22
21.5
21
6284. 0
6284. 1
6284. 2
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6285. 1
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6314. 6
6314. 7
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6316. 0
6316. 1
6316. 2
6316. 3
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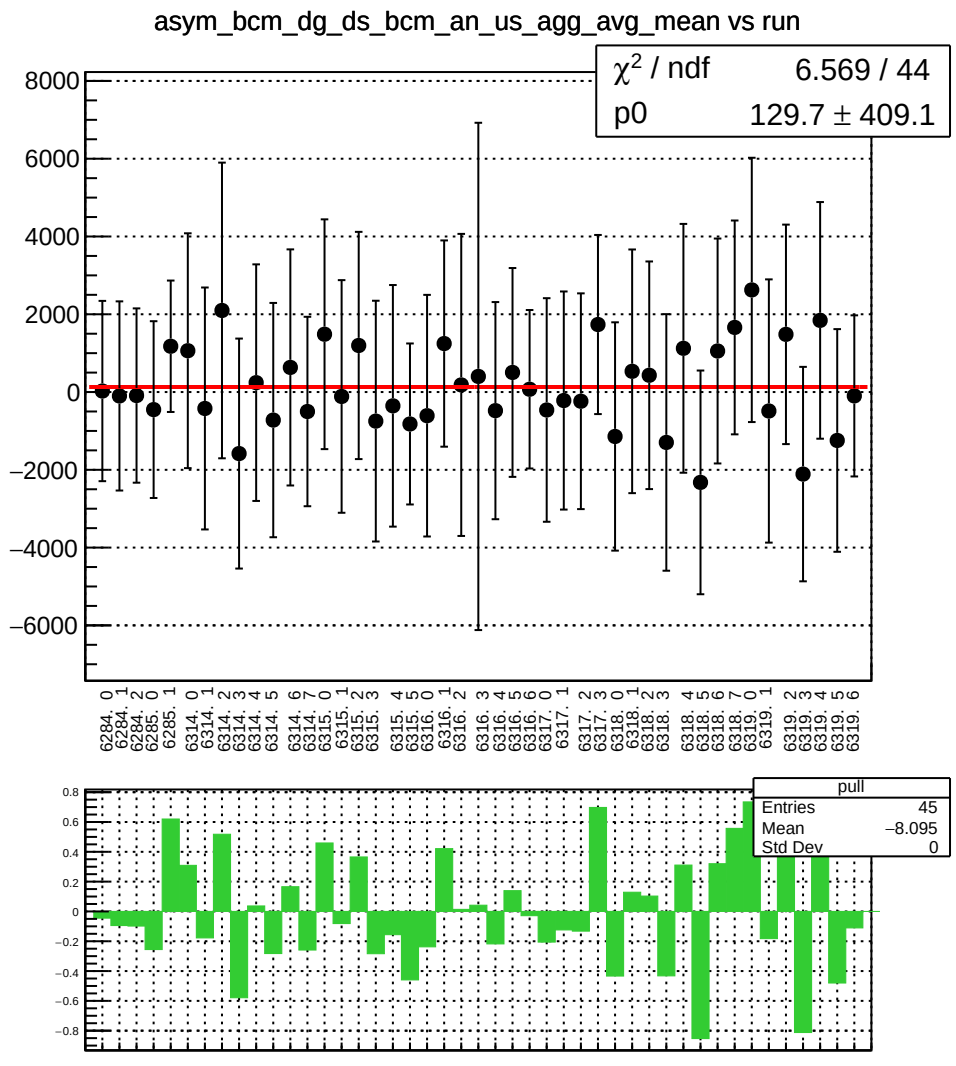
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.569 / 44
p0 129.7 ± 409.1
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
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6315. 4
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6316. 0
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6316. 6
6317. 0
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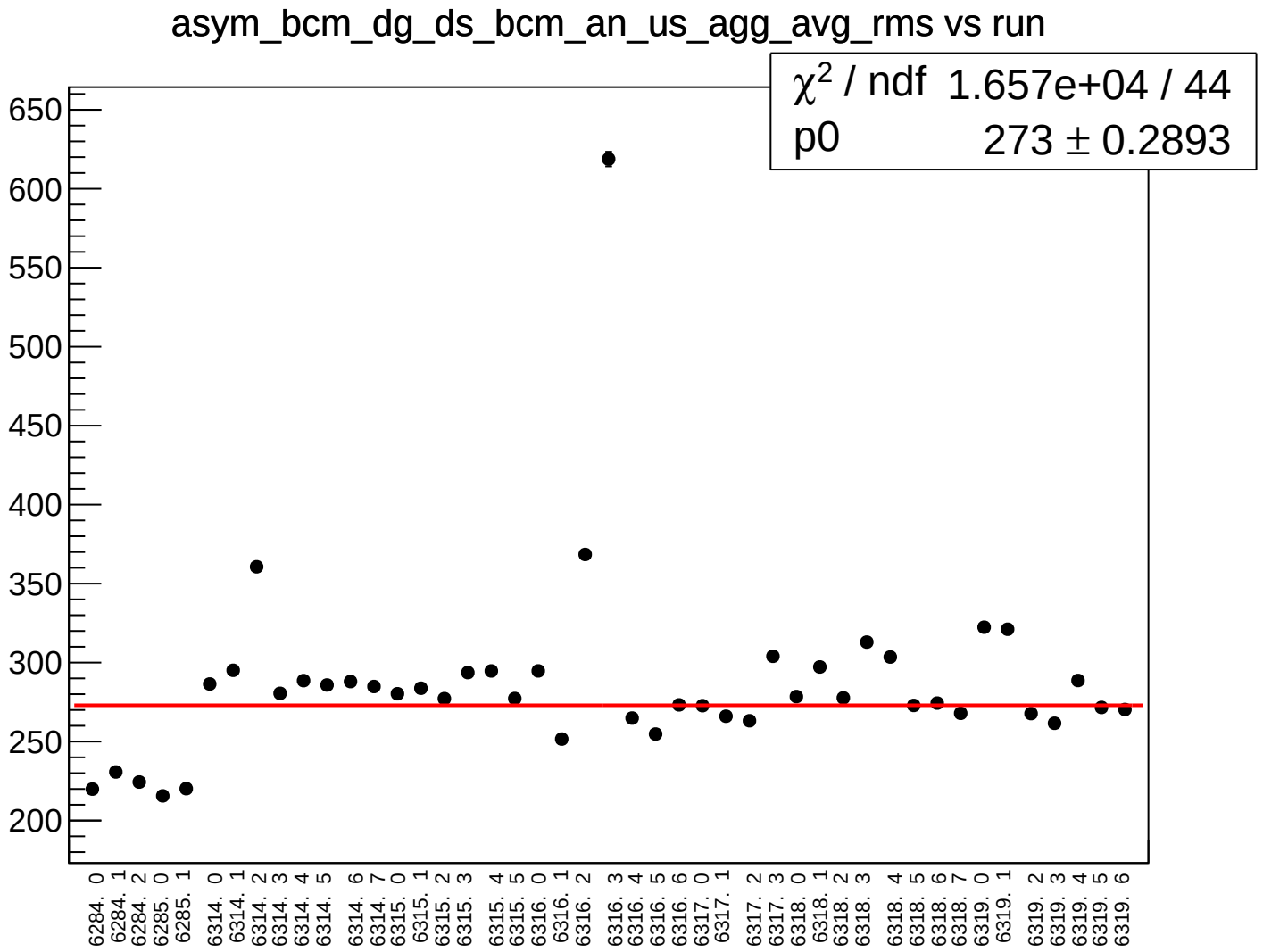
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −8.095
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0007584
Std Dev 0.3821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.657e+04 / 44
p0 273 ± 0.2893
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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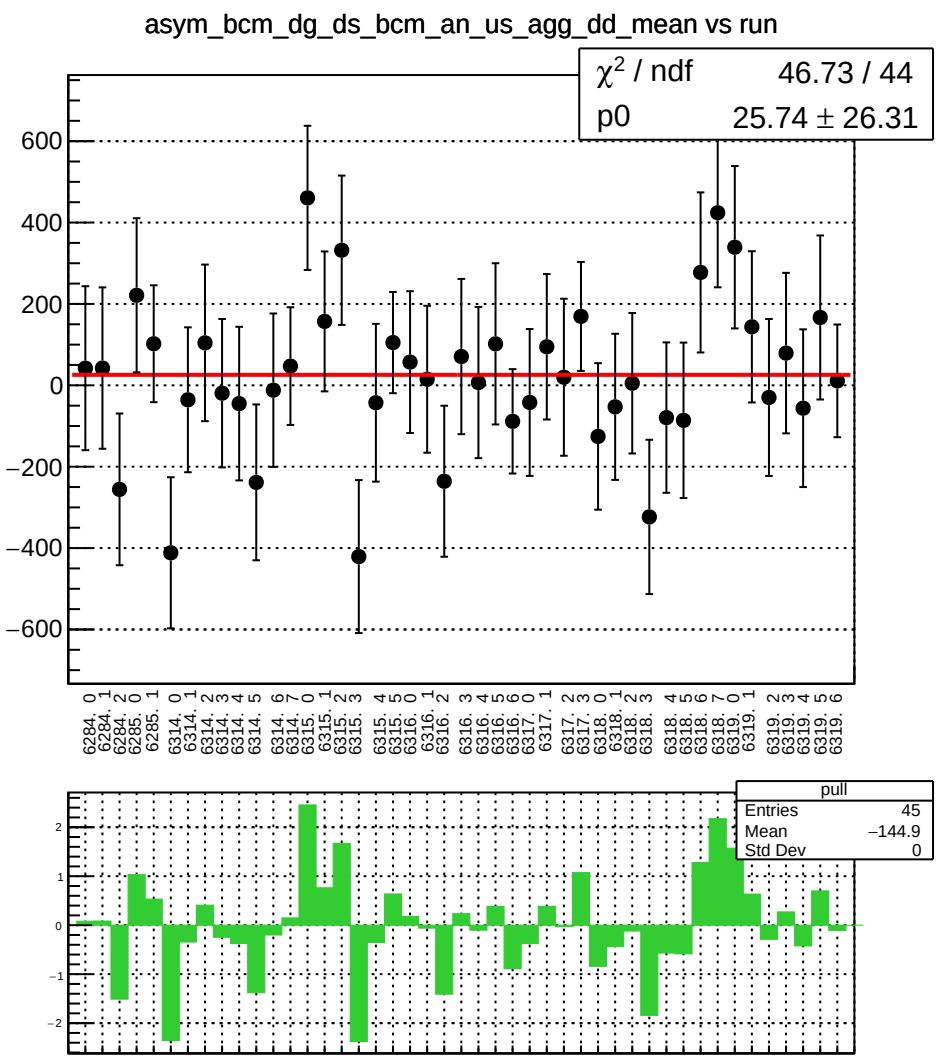
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.73 / 44
p0 25.74 ± 26.31
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 5
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6315. 3
6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
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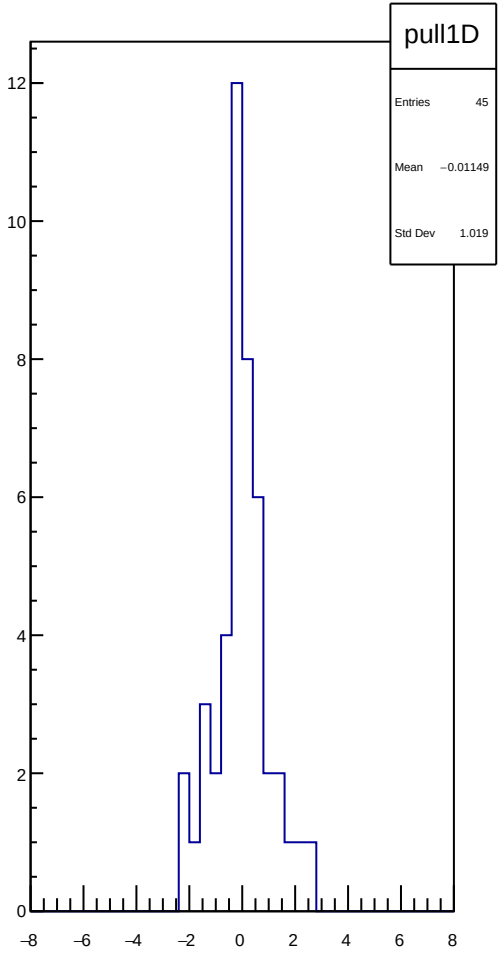
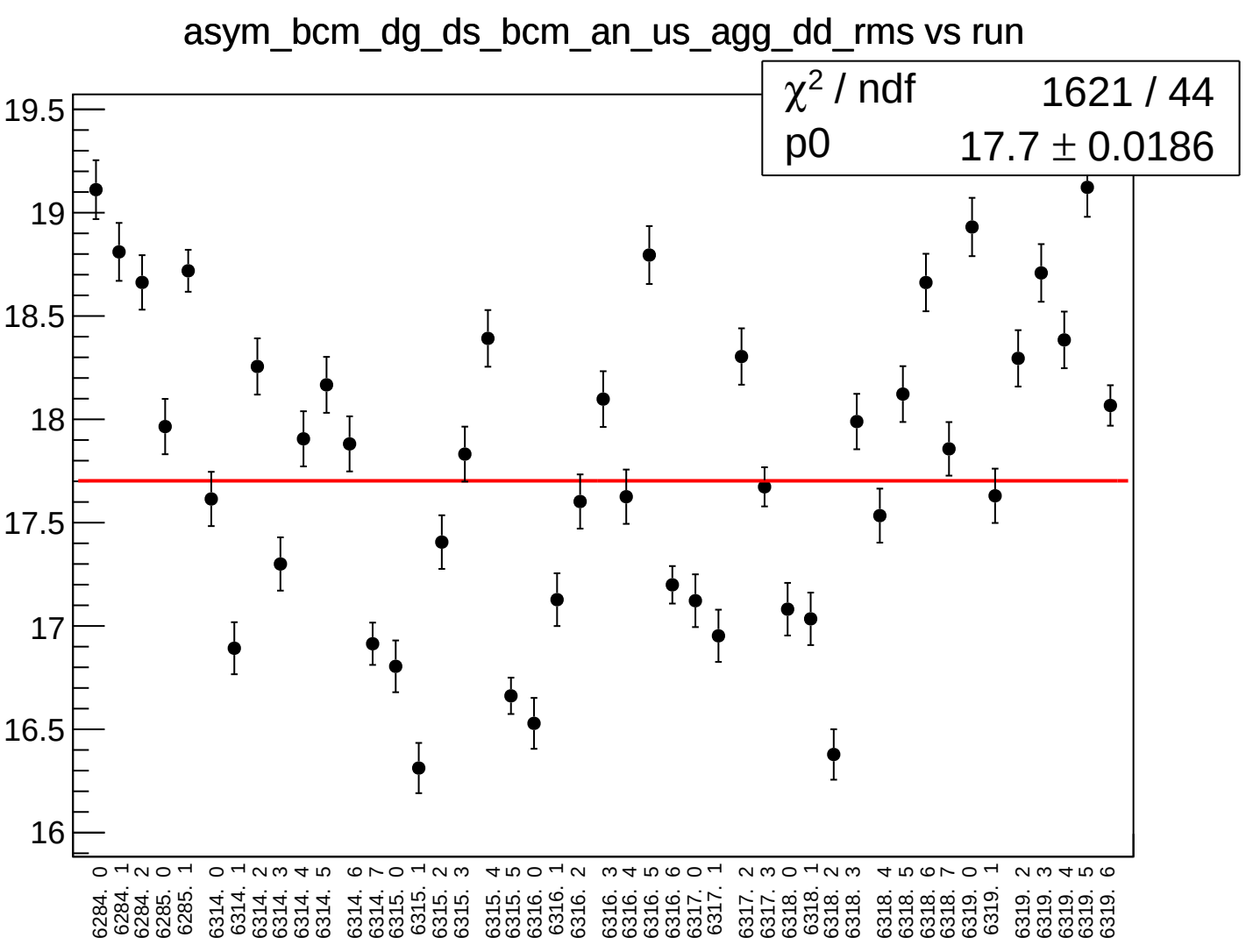
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −144.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01149
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1621 / 44
p0 17.7 ± 0.0186
19.5
19
18.5
18
17.5
17
16.5
16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
6317. 1
6317. 2
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6318. 1
6318. 2
6318. 3
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6318. 7
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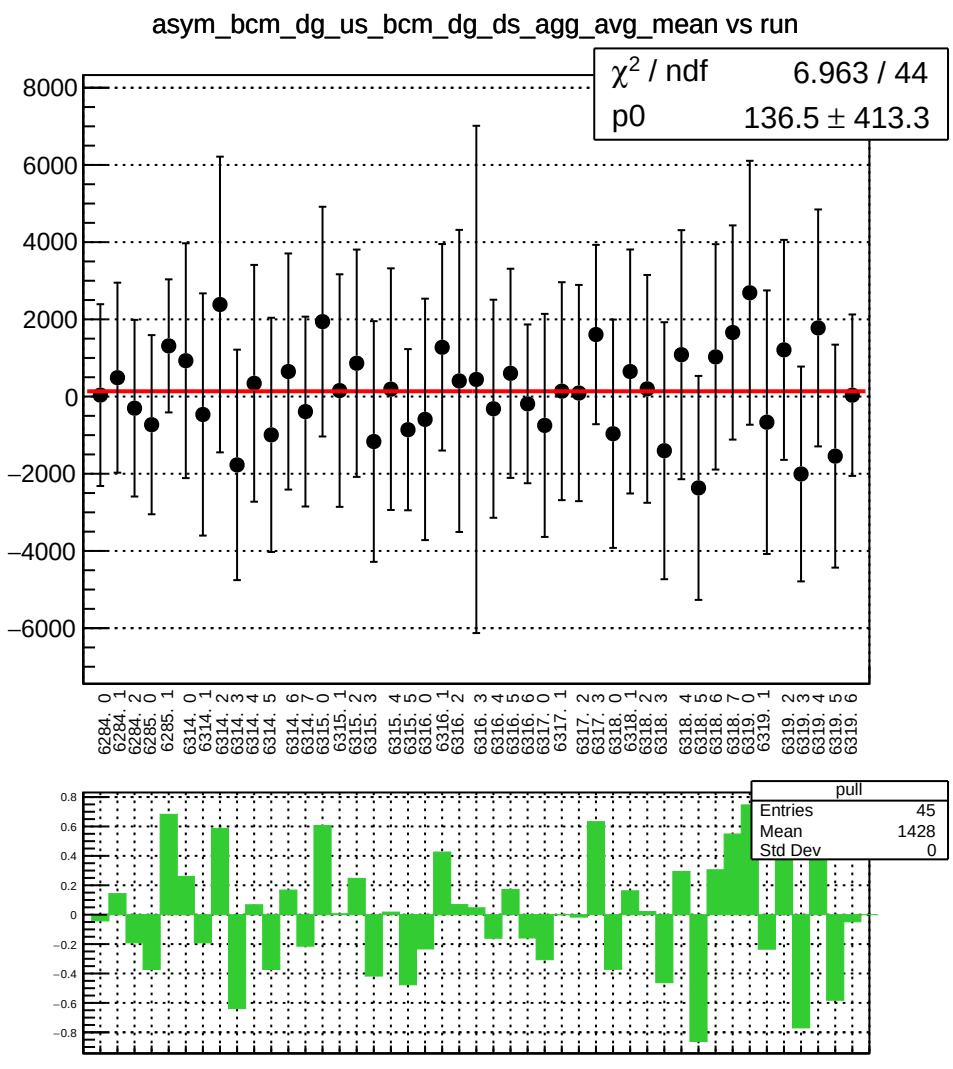
asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.963 / 44
p0 136.5 ± 413.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
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6315. 4
6315. 5
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6316. 2
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1428
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −8.146e−05
Std Dev 0.3934
16
14
12
10
8
6
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2
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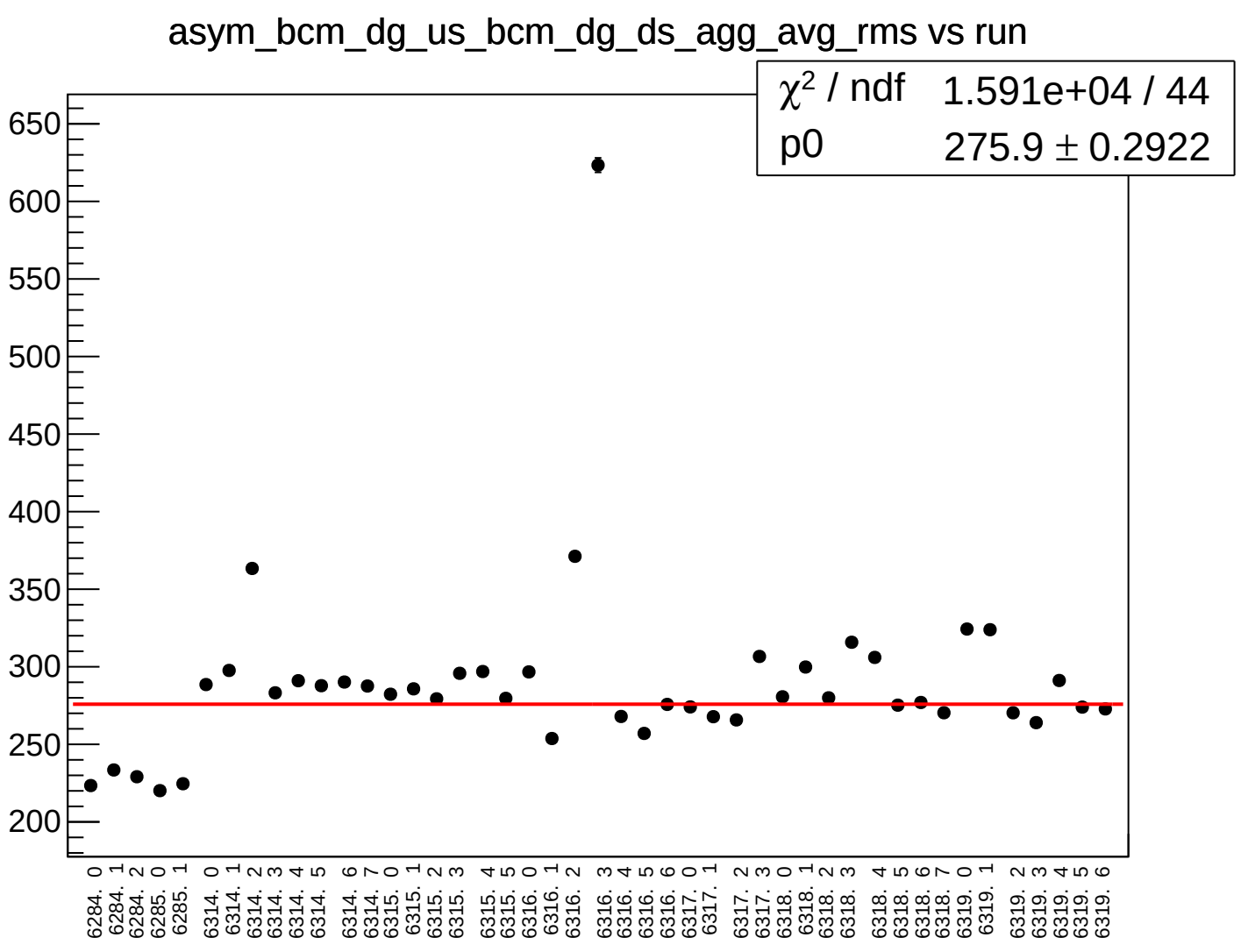
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.591e+04 / 44
p0 275.9 ± 0.2922
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 1
6316. 2
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6316. 4
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6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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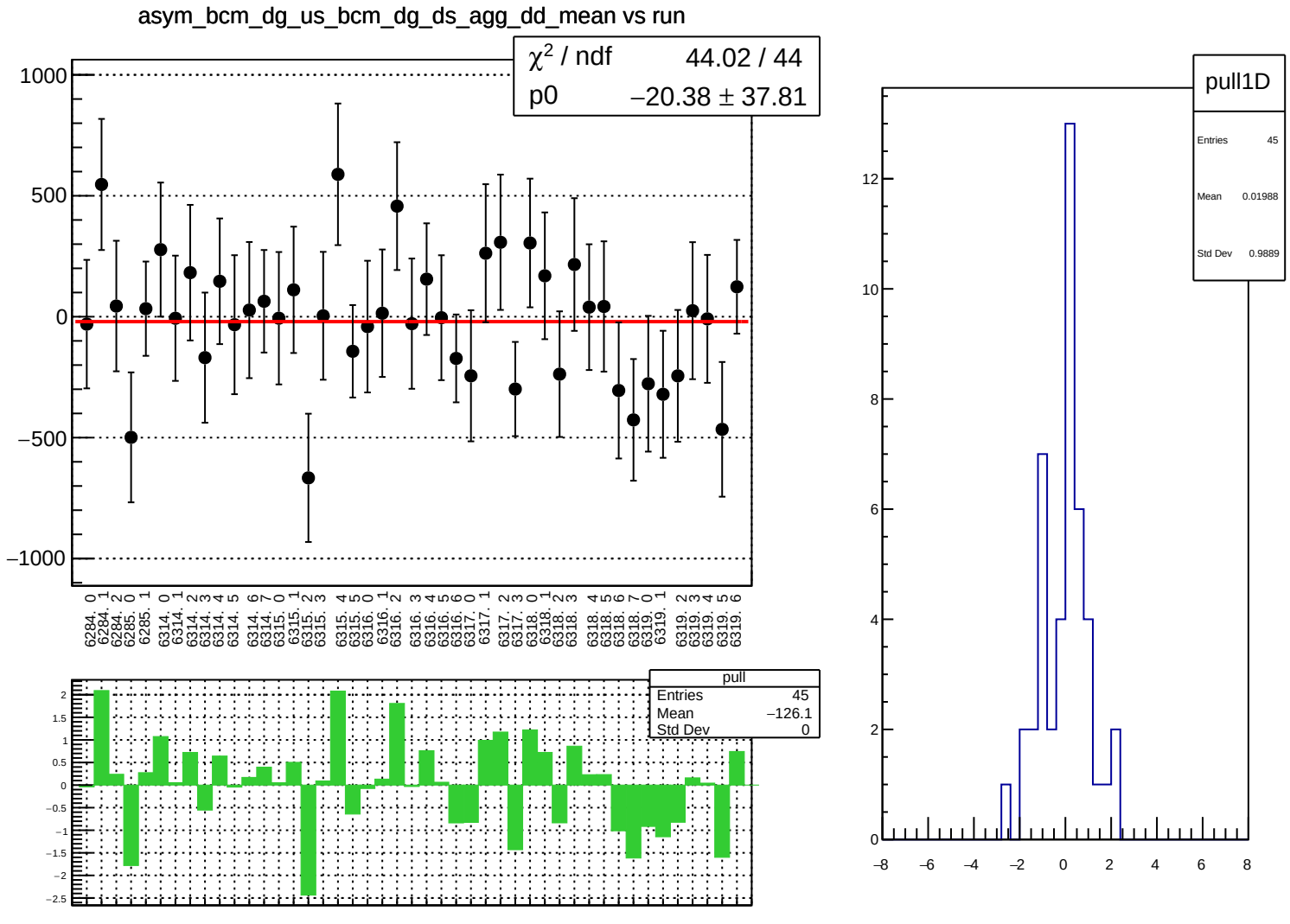
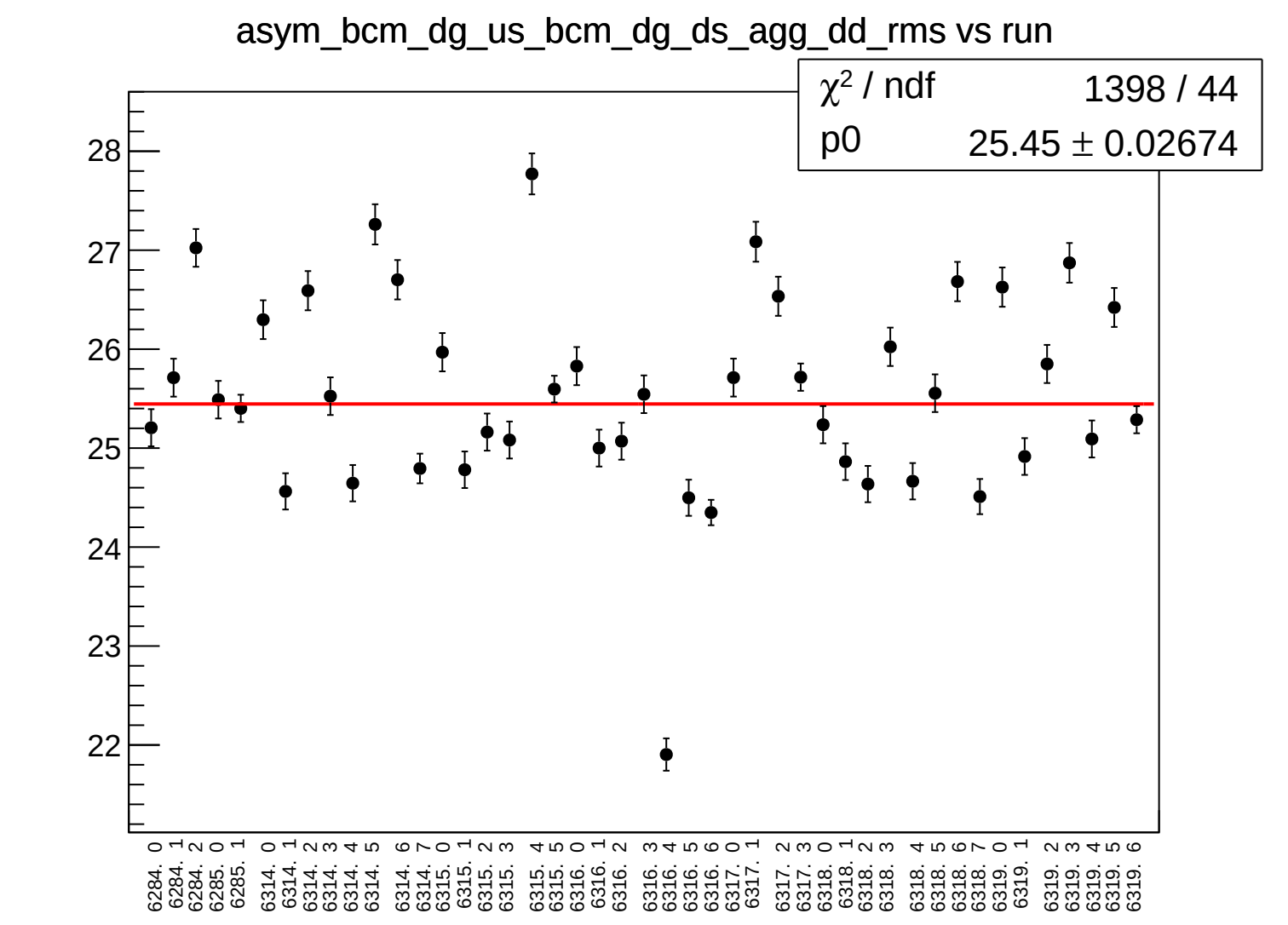
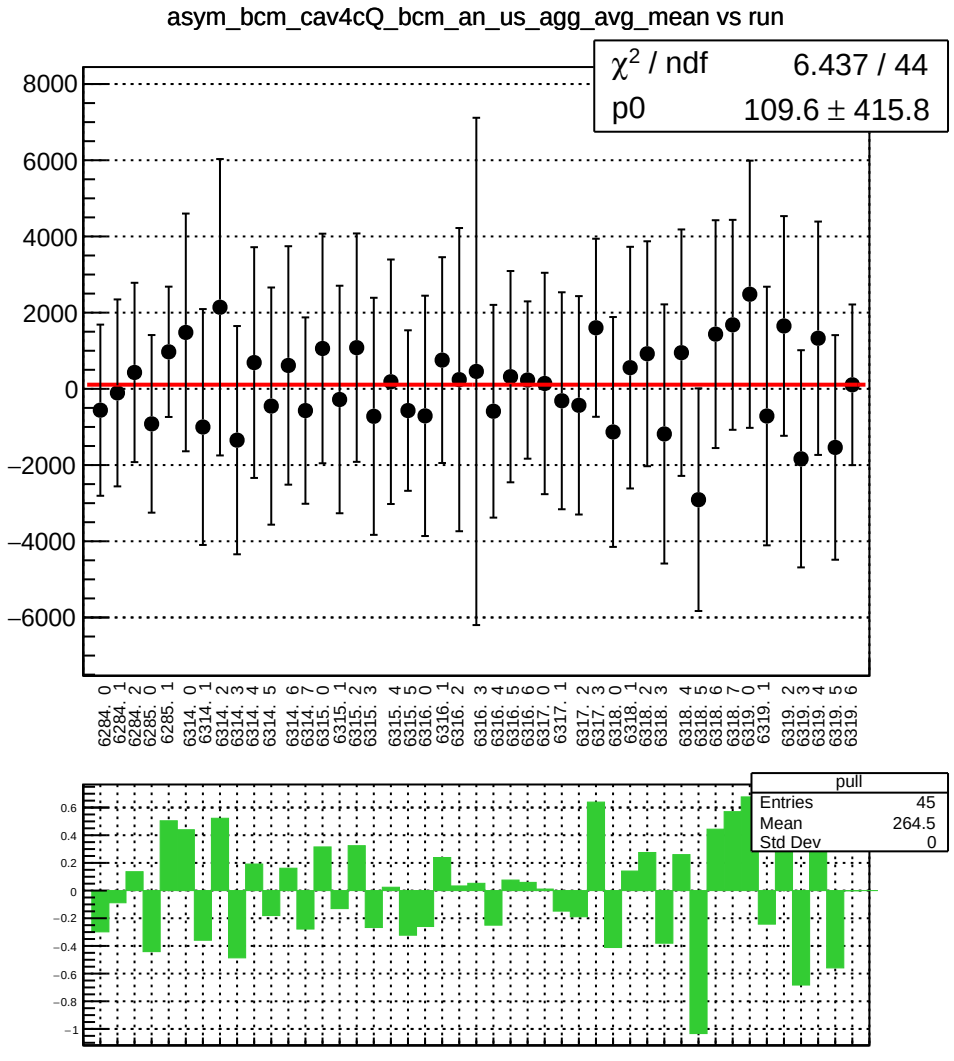
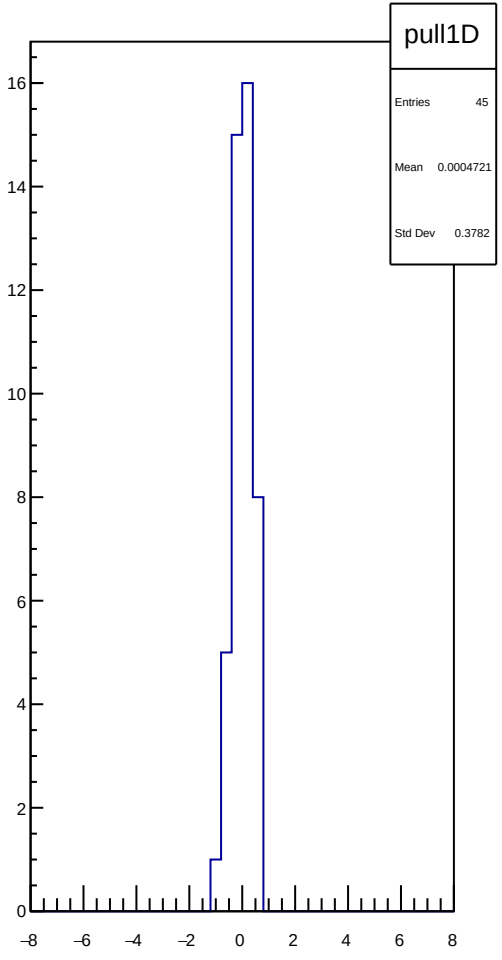
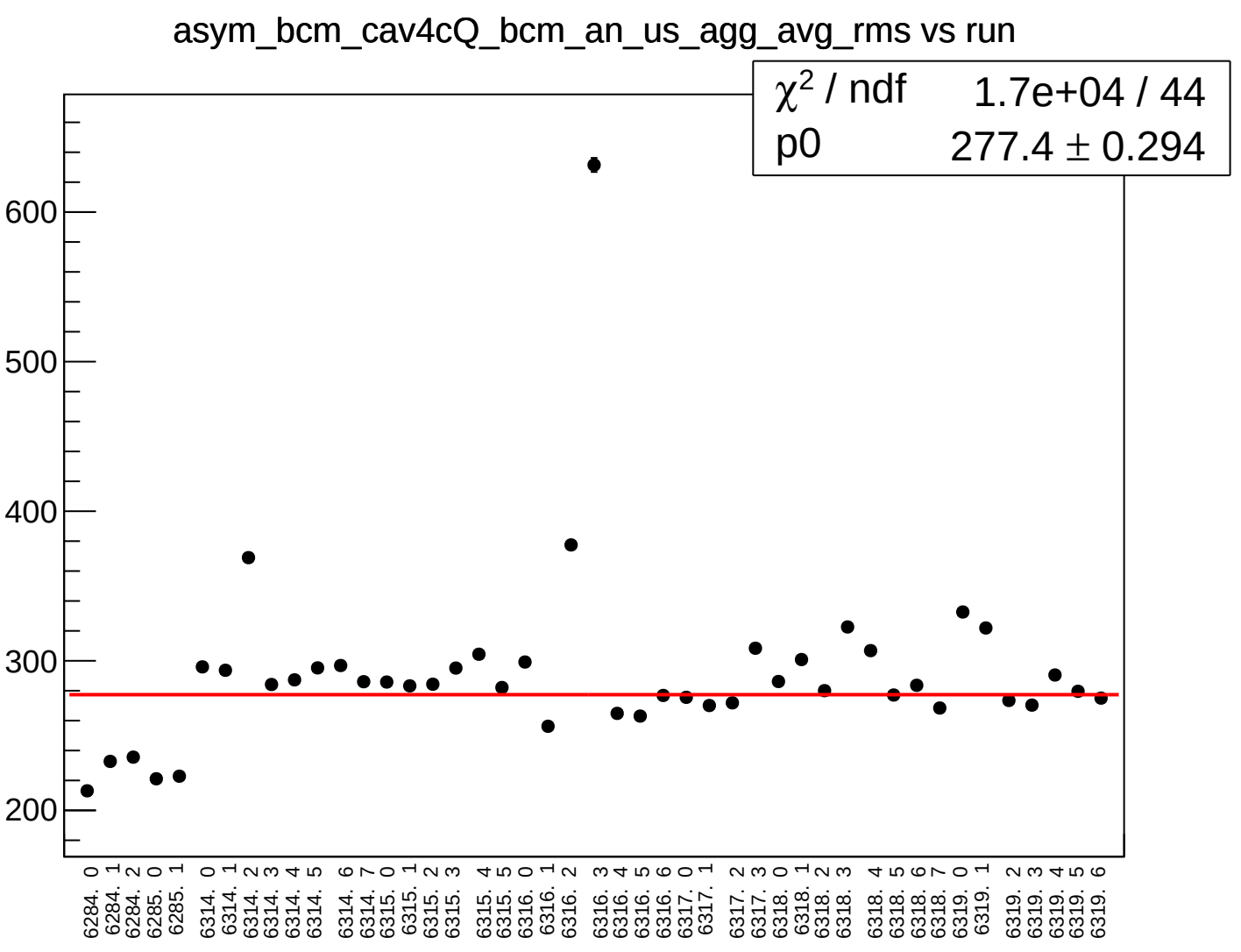
6319. 6

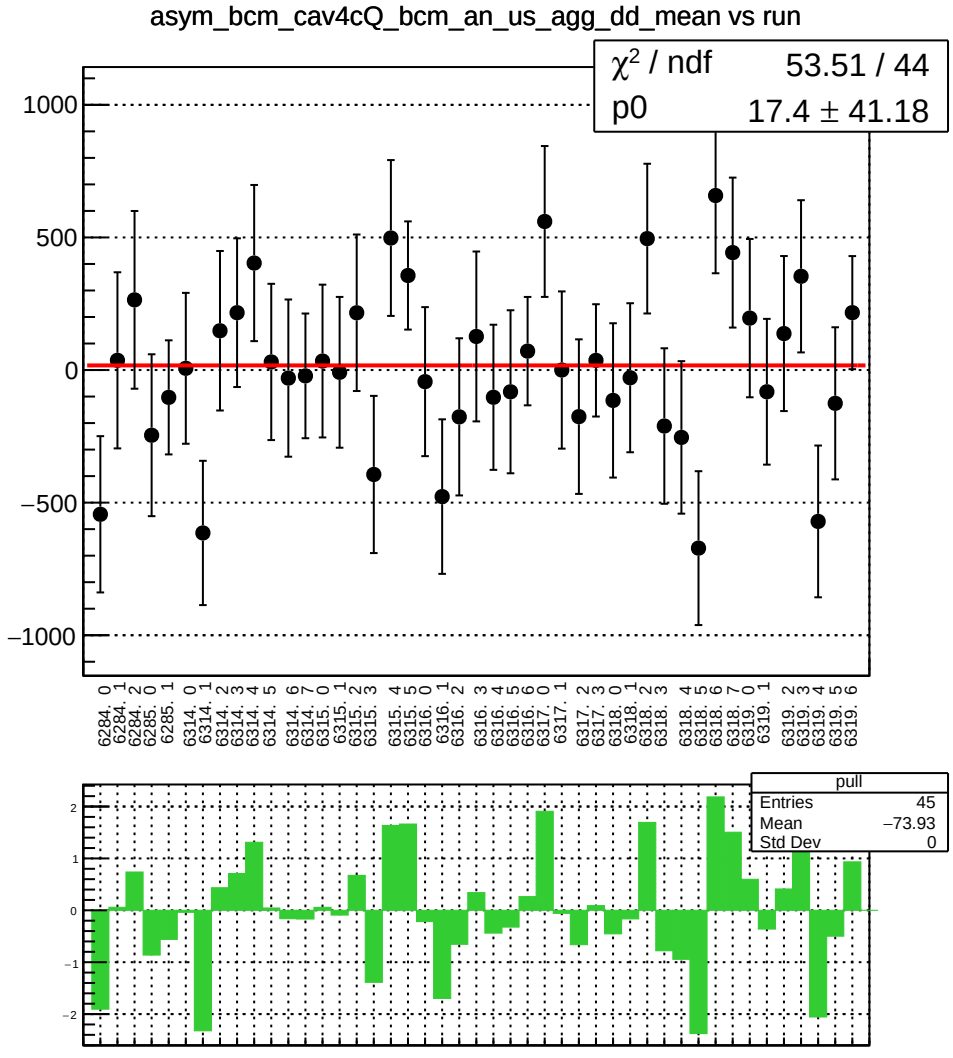

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 44.02 / 44
p0 −20.38 ± 37.81
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −126.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01988
Std Dev 0.9889
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

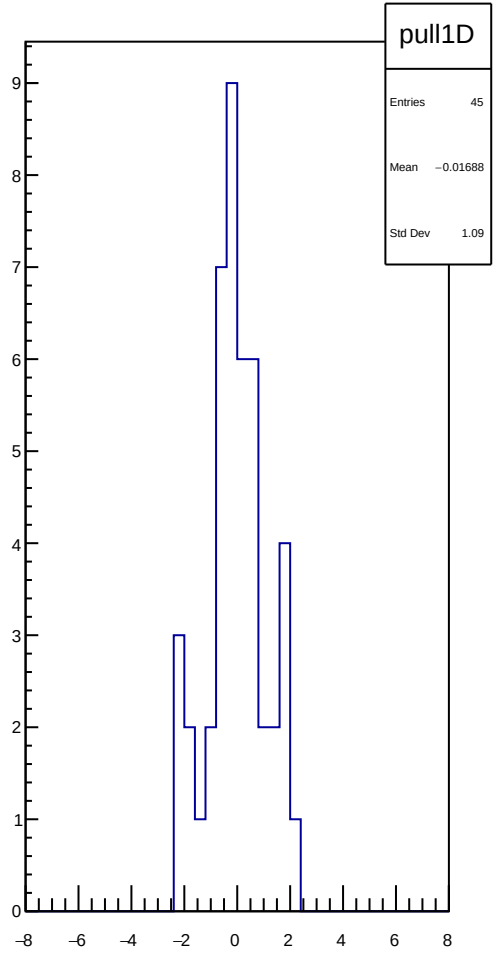

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1398 / 44
p0 25.45 ± 0.02674
28
27
26
25
24
23
22
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

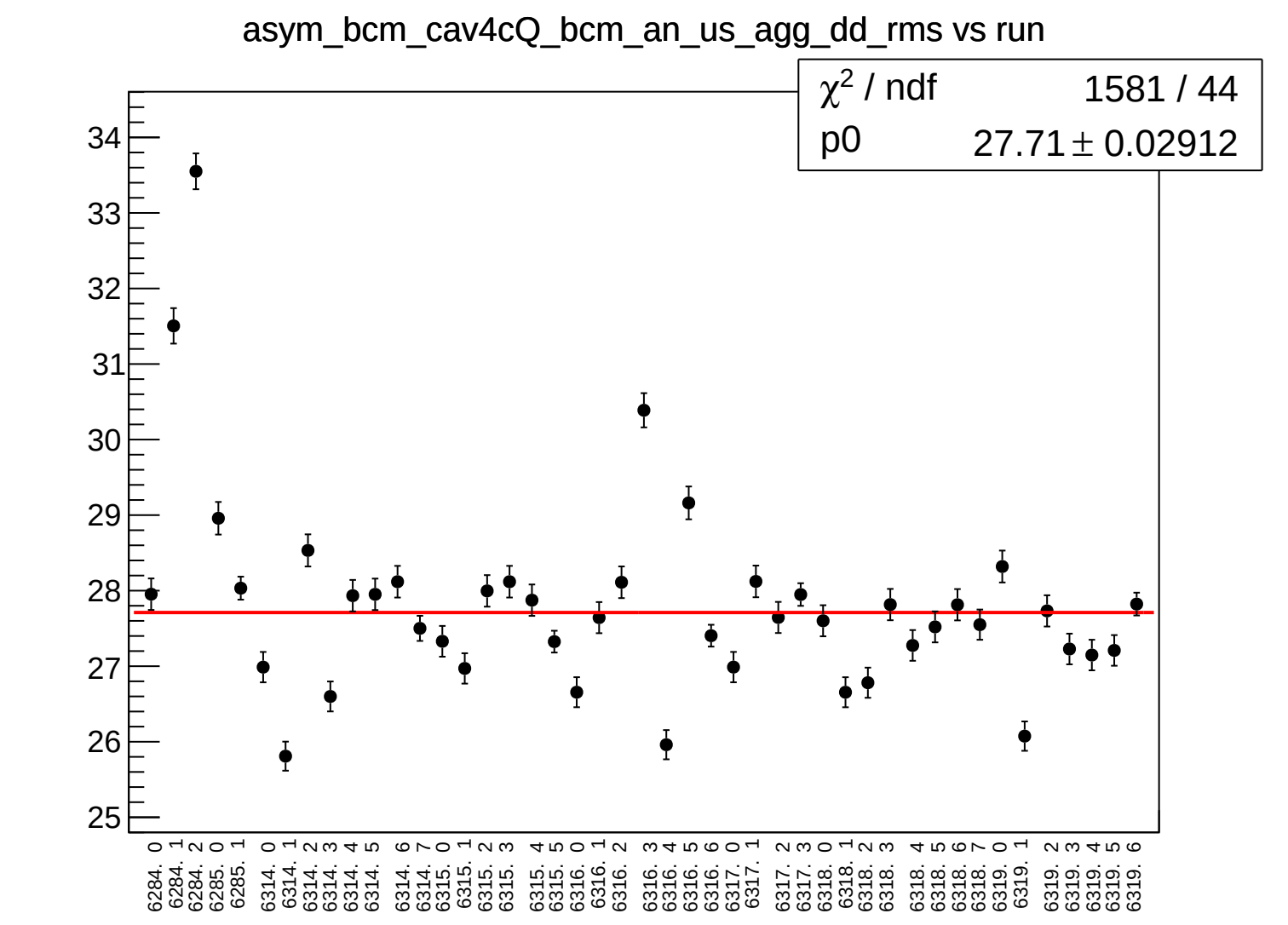

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.437 / 44
p0 109.6 ± 415.8
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 264.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

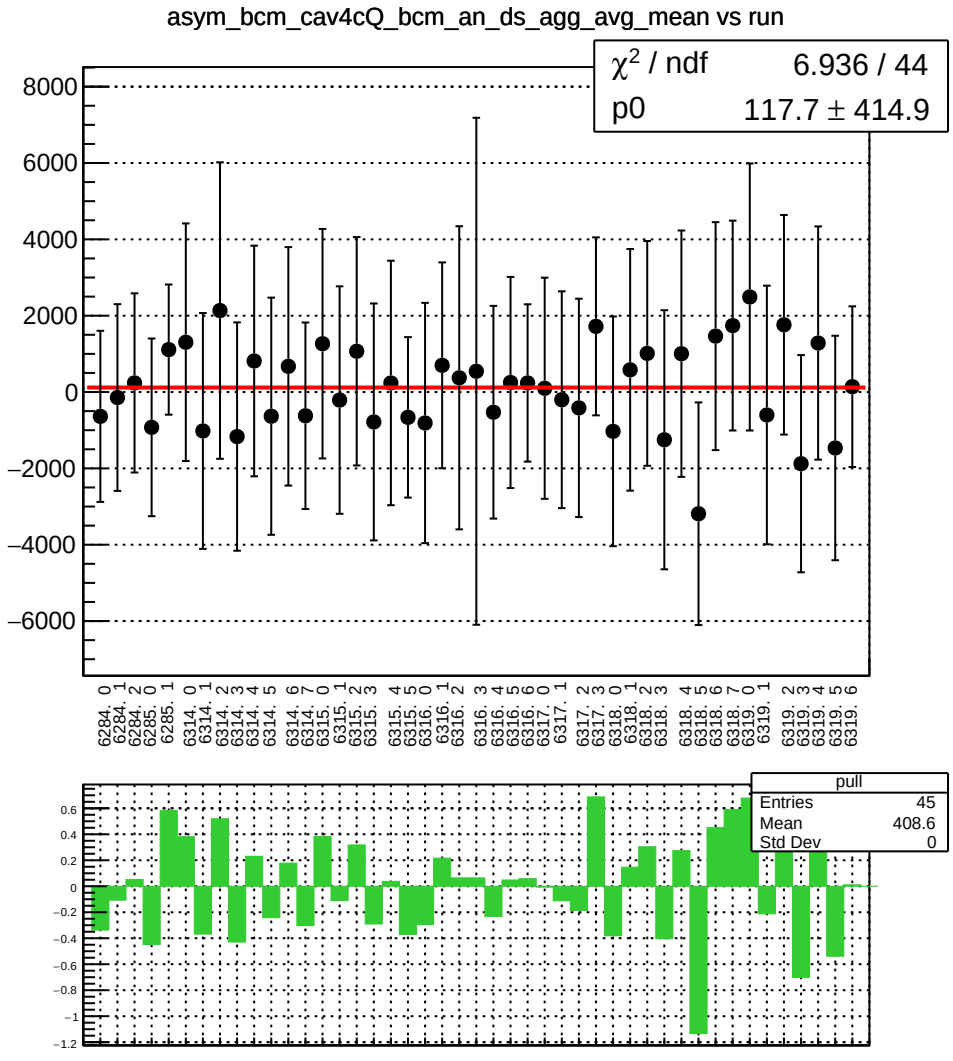

pull1D
Entries 45
Mean 0.0004721
Std Dev 0.3782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

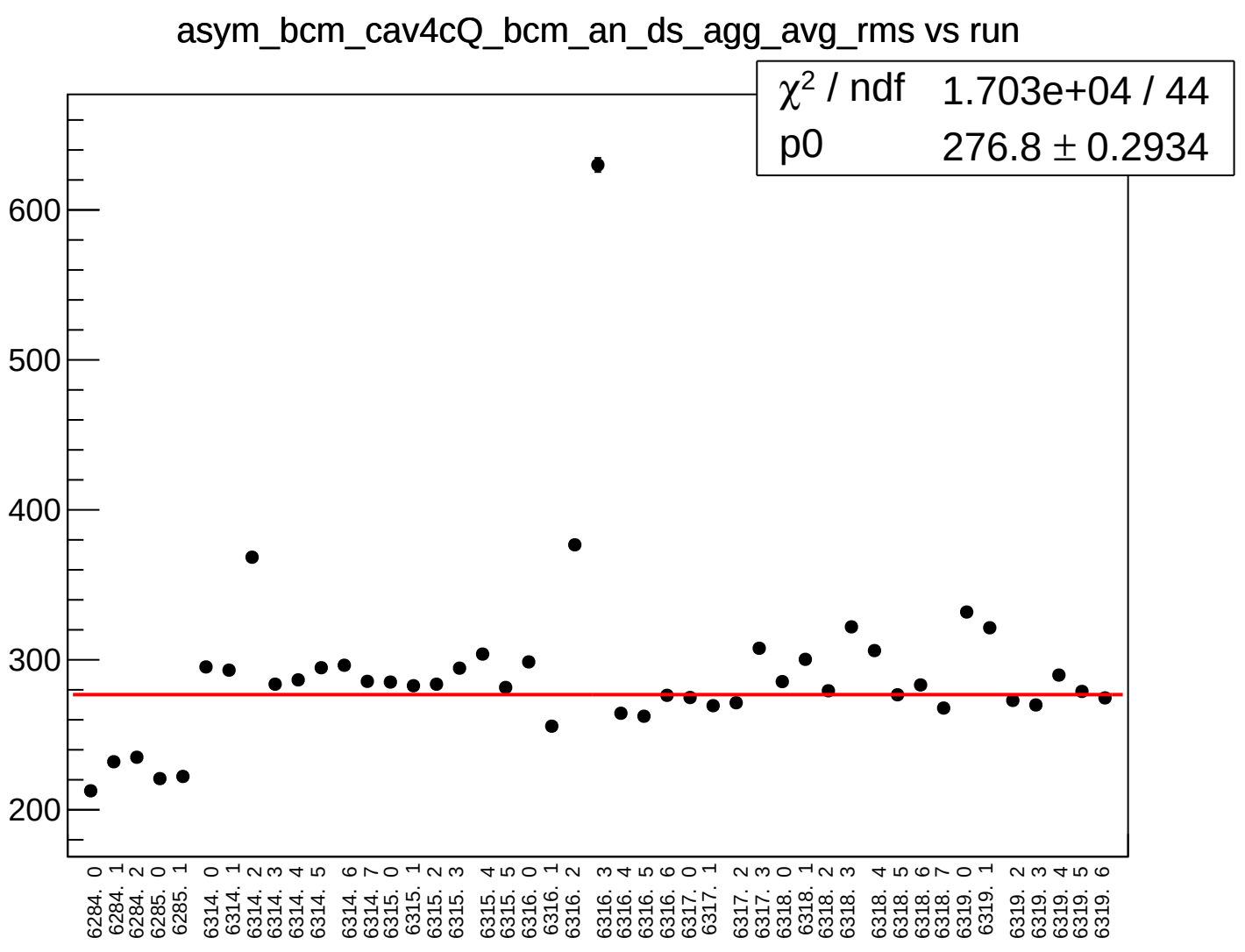

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.7e+04 / 44
p0 277.4 ± 0.294
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

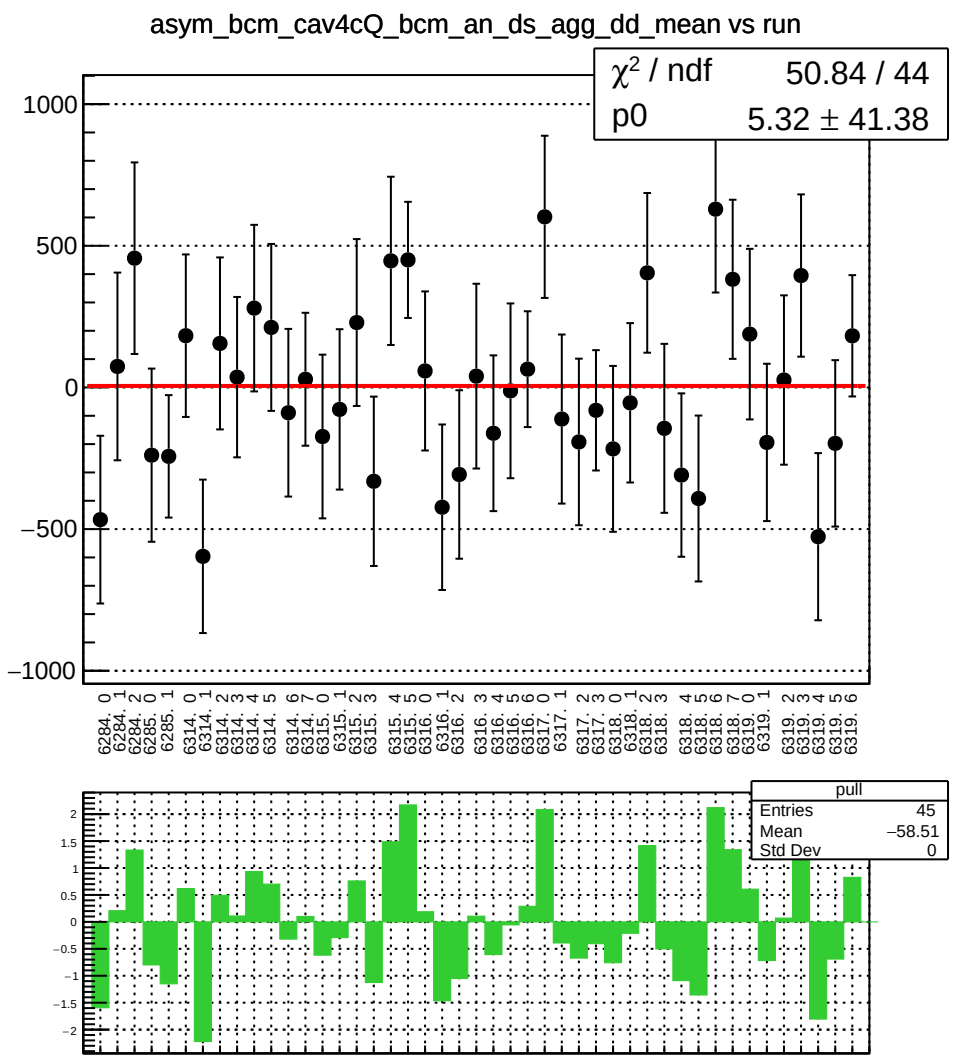

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 53.51 / 44
p0 17.4 ± 41.18
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −73.93
Std Dev 0
2
1
0
−1
−2

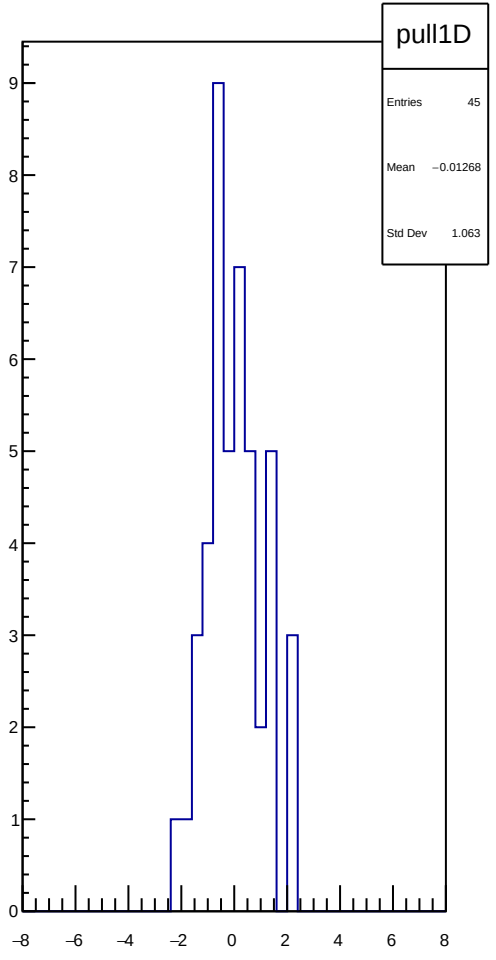

pull1D
Entries 45
Mean −0.01688
Std Dev 1.09
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

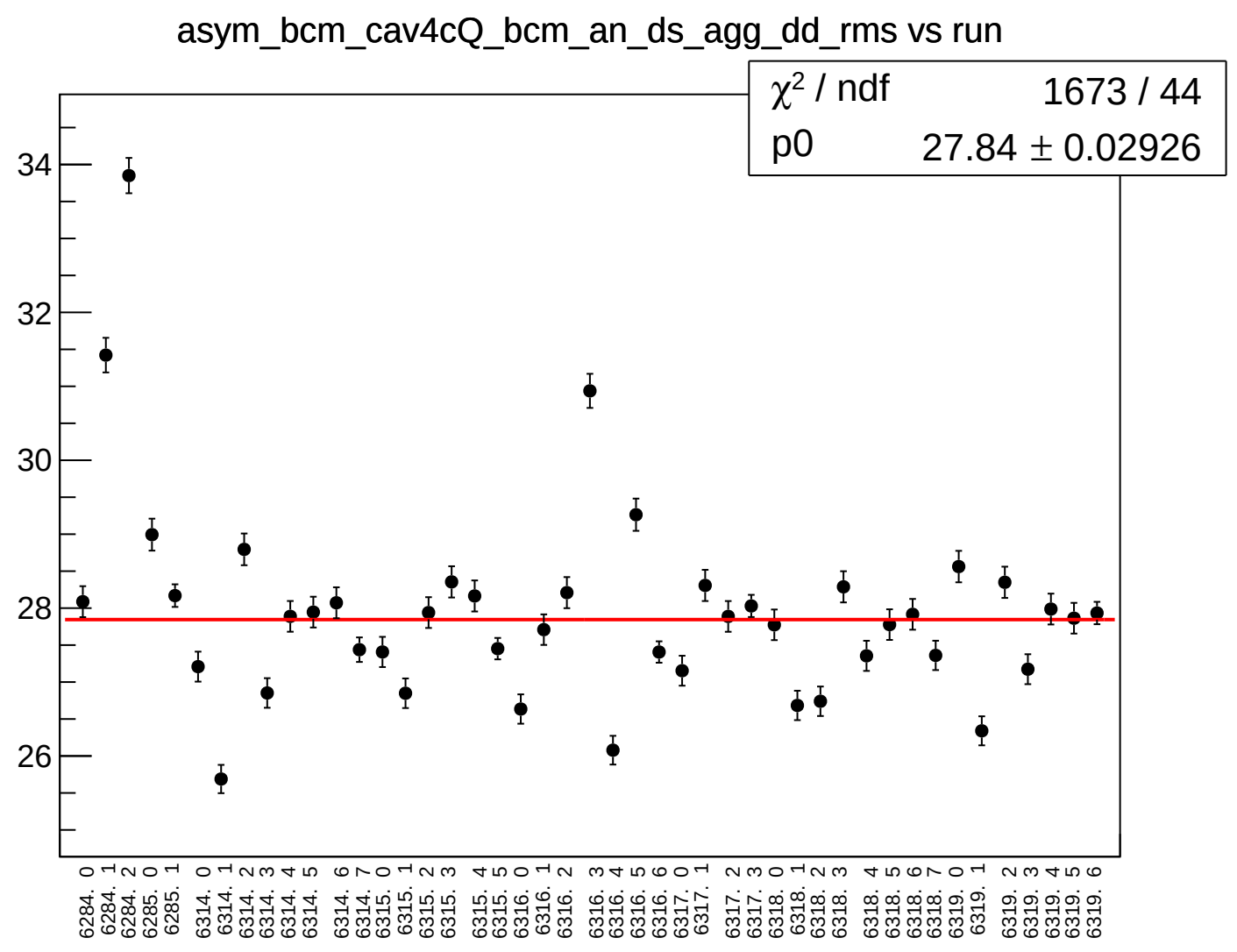

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1581 / 44
p0 27.71 ± 0.02912
34
33
32
31
30
29
28
27
26
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

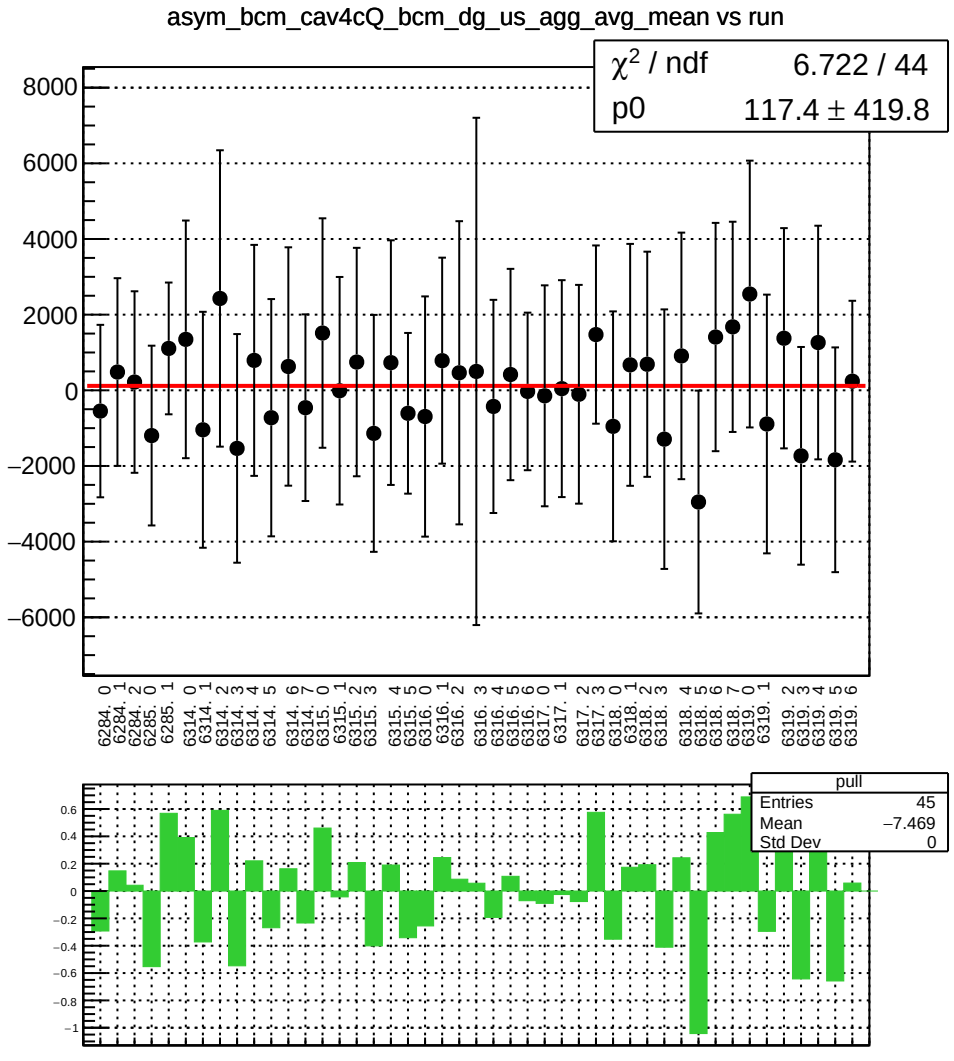

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.936 / 44
p0 117.7 ± 414.9
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 408.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.0004853
Std Dev 0.3926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

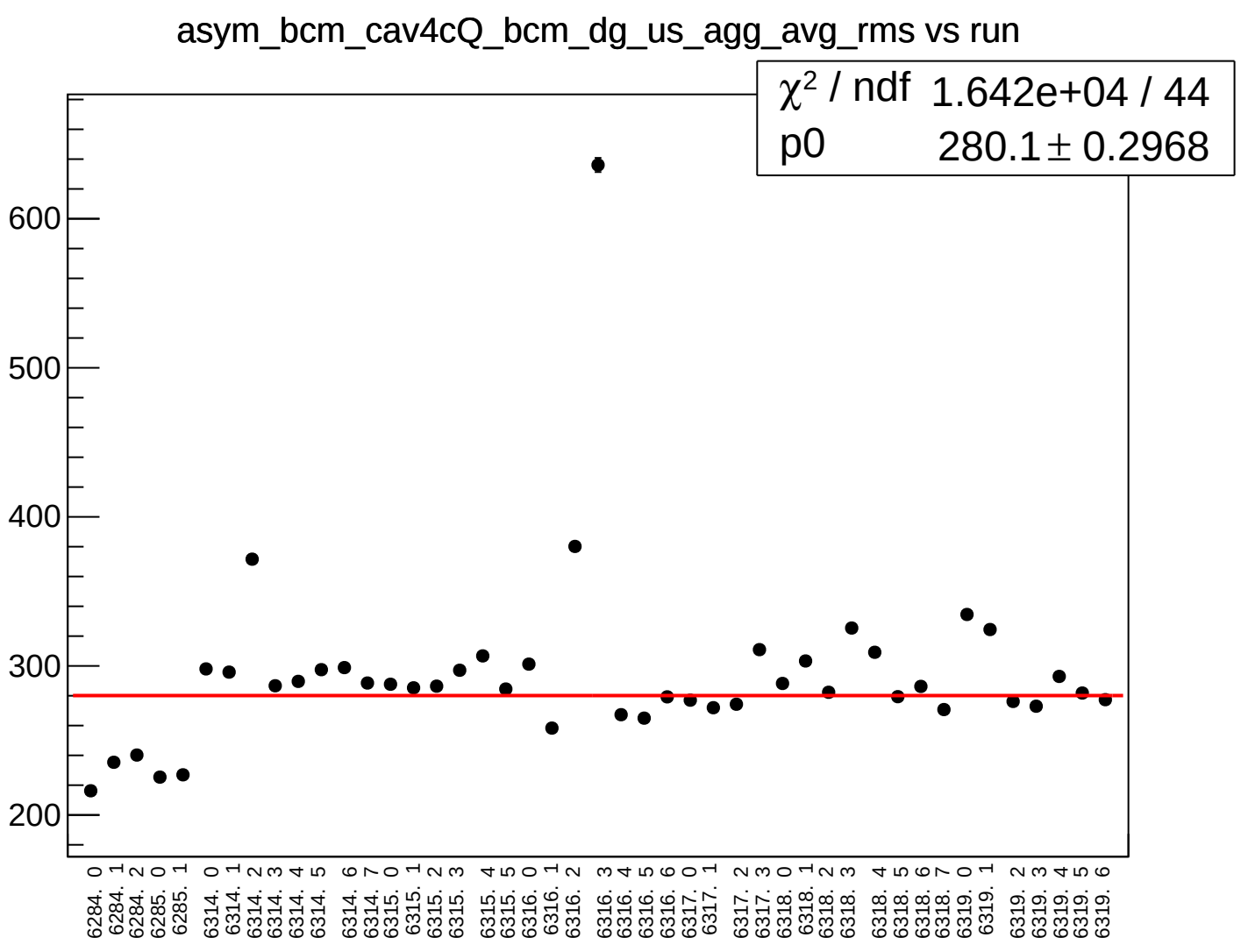

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.703e+04 / 44
p0 276.8 ± 0.2934
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

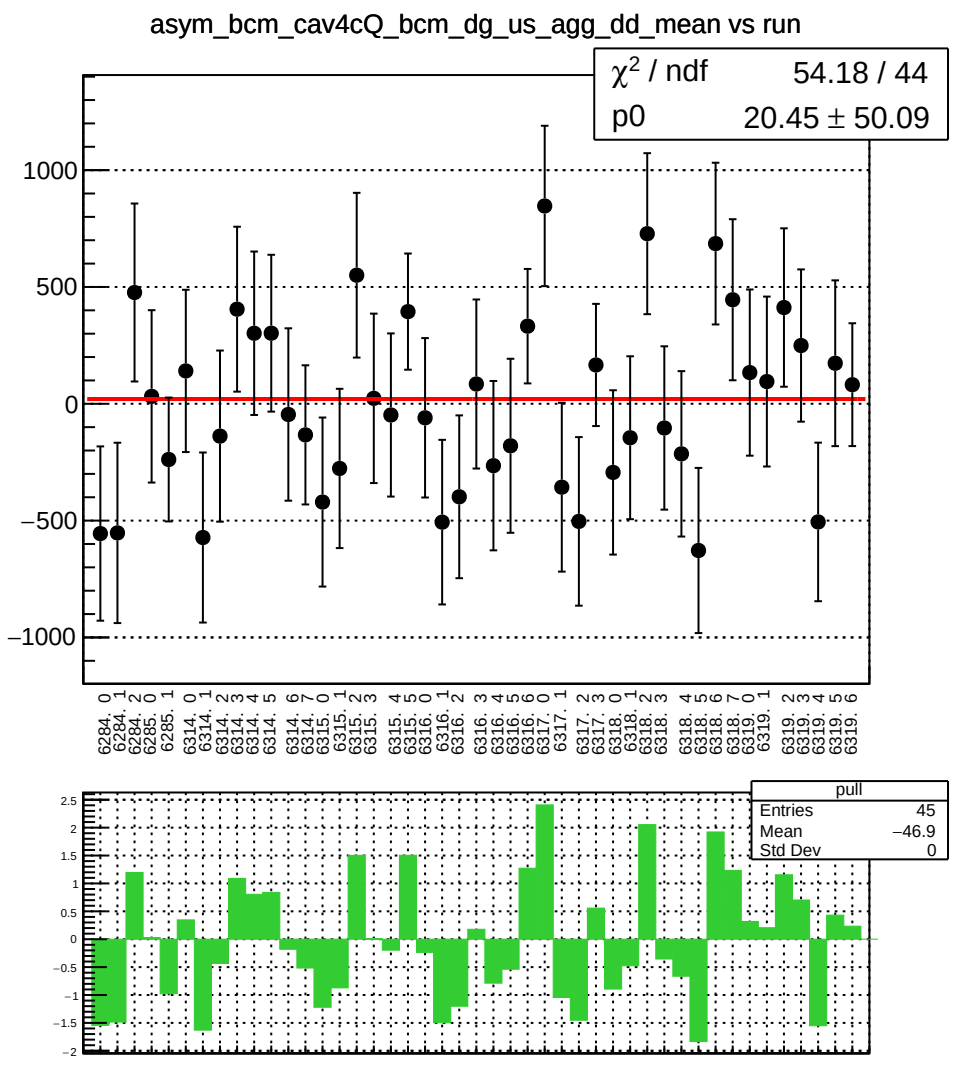

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.84 / 44
p0 5.32 ± 41.38
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −58.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

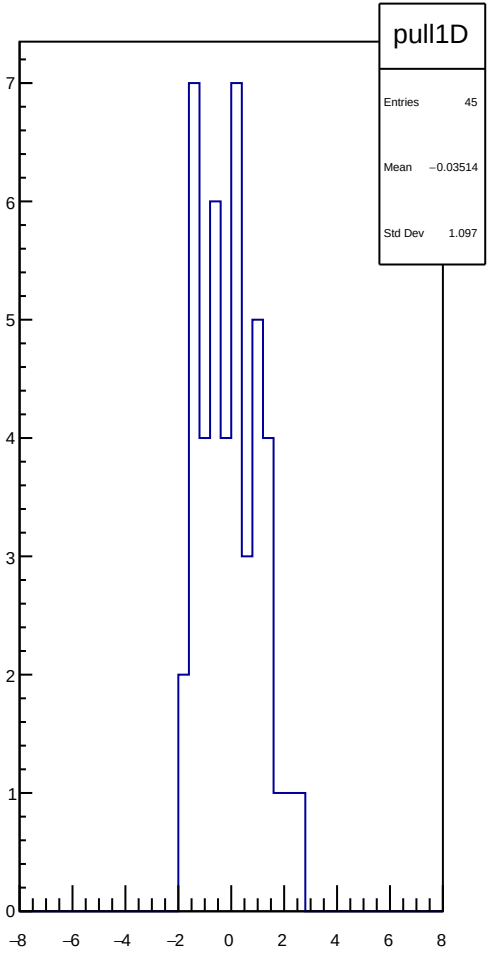

pull1D
Entries 45
Mean −0.01268
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

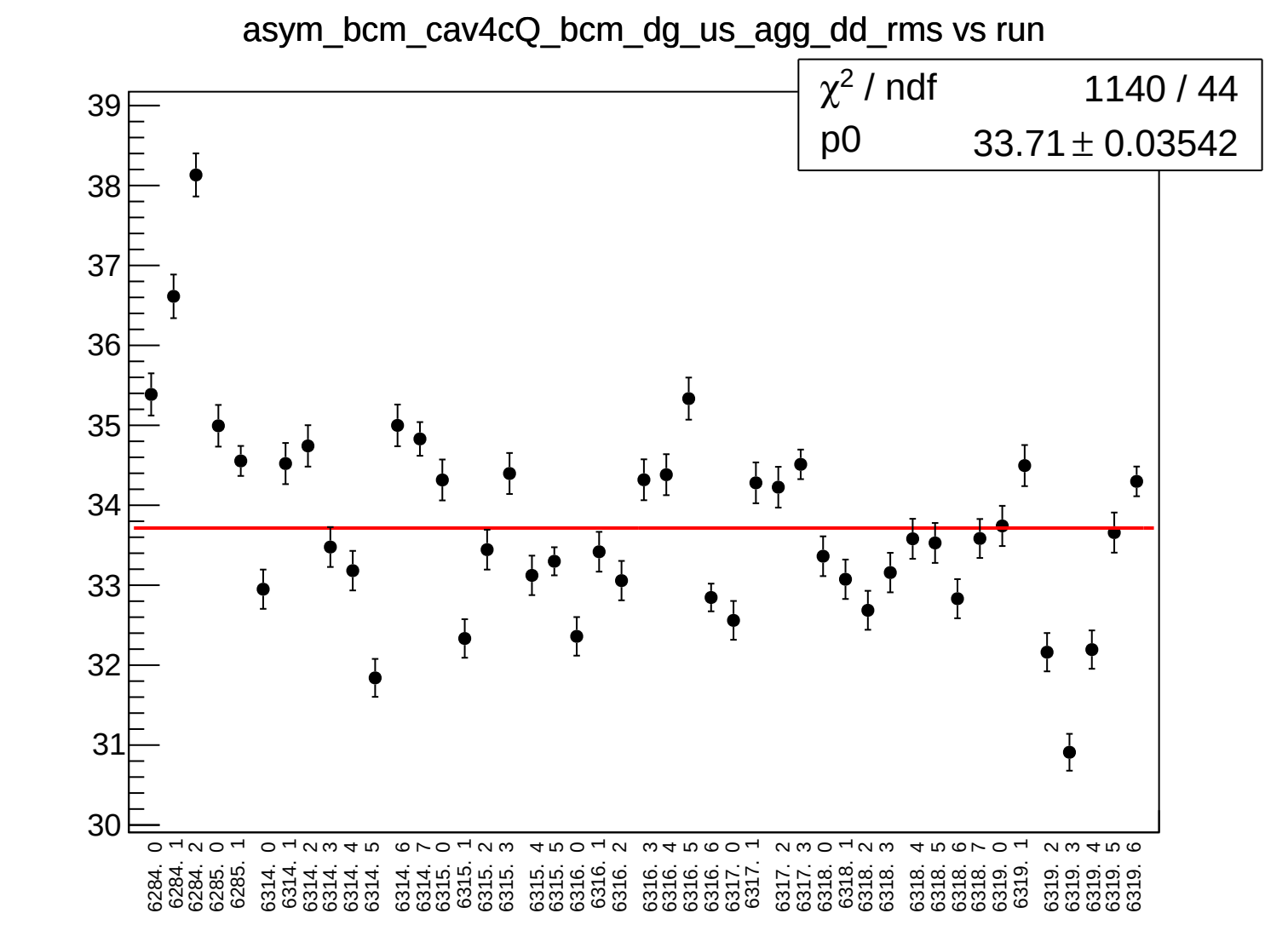

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1673 / 44
p0 27.84 ± 0.02926
34
32
30
28
26
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 6.722 / 44
p0 117.4 ± 419.8
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −7.469
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.0008858
Std Dev 0.3865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.642e+04 / 44
p0 280.1 ± 0.2968
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 54.18 / 44
p0 20.45 ± 50.09
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.03514
Std Dev 1.097
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1140 / 44
p0 33.71 ± 0.03542
39
38
37
36
35
34
33
32
31
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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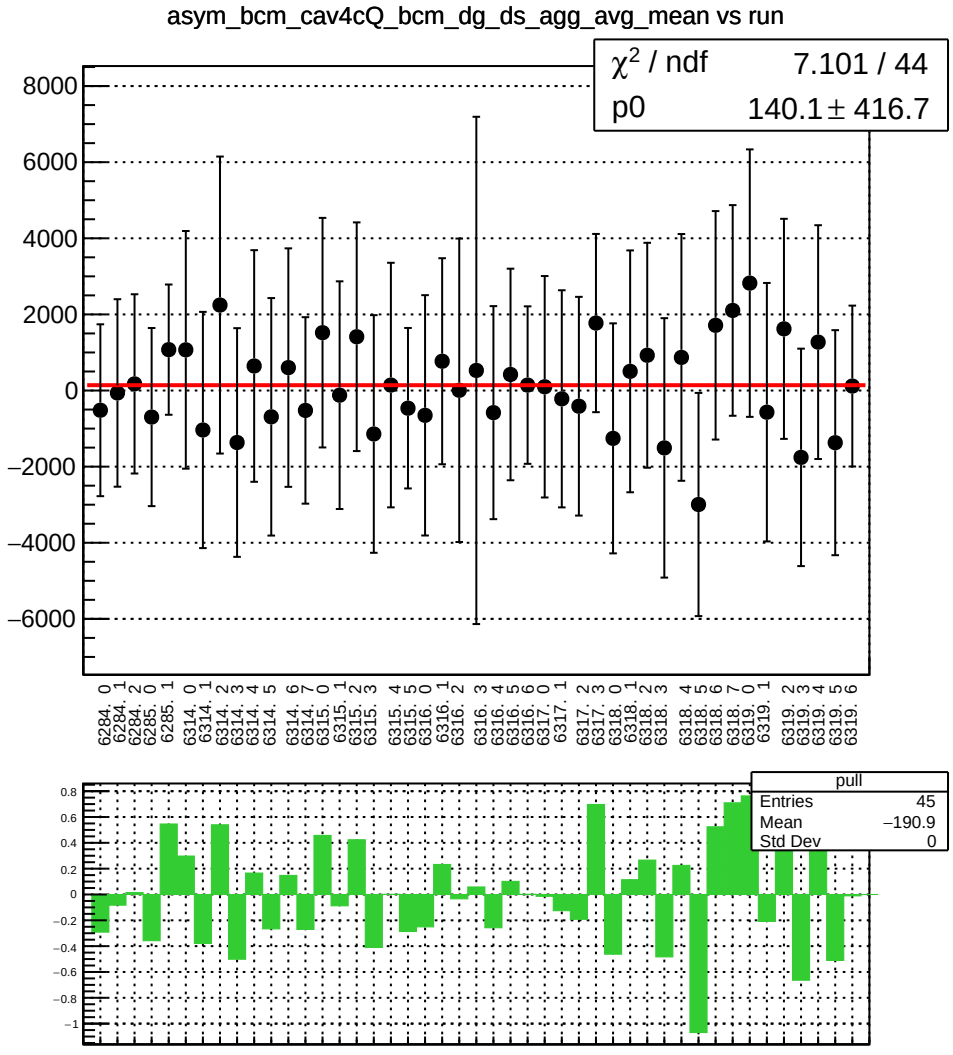
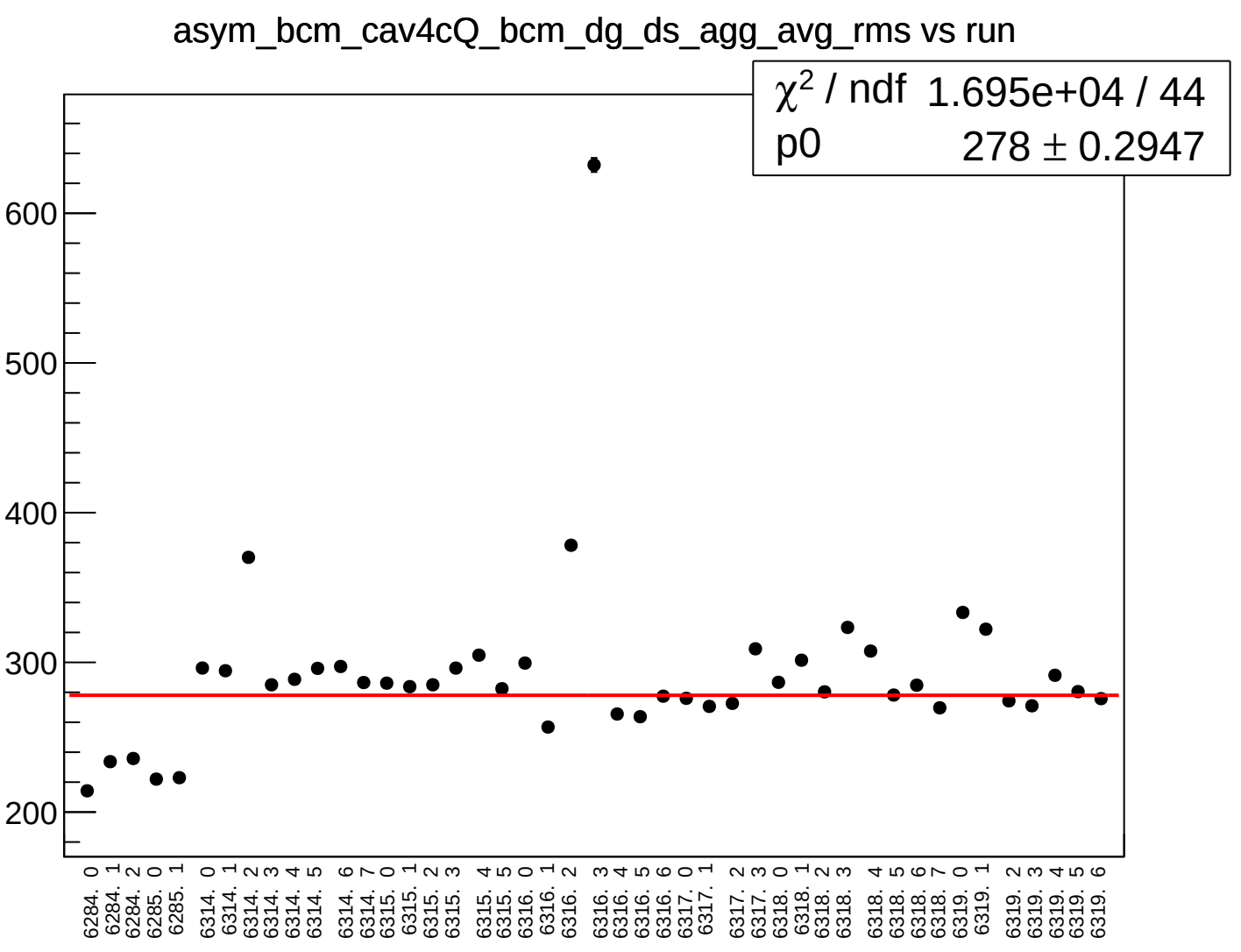
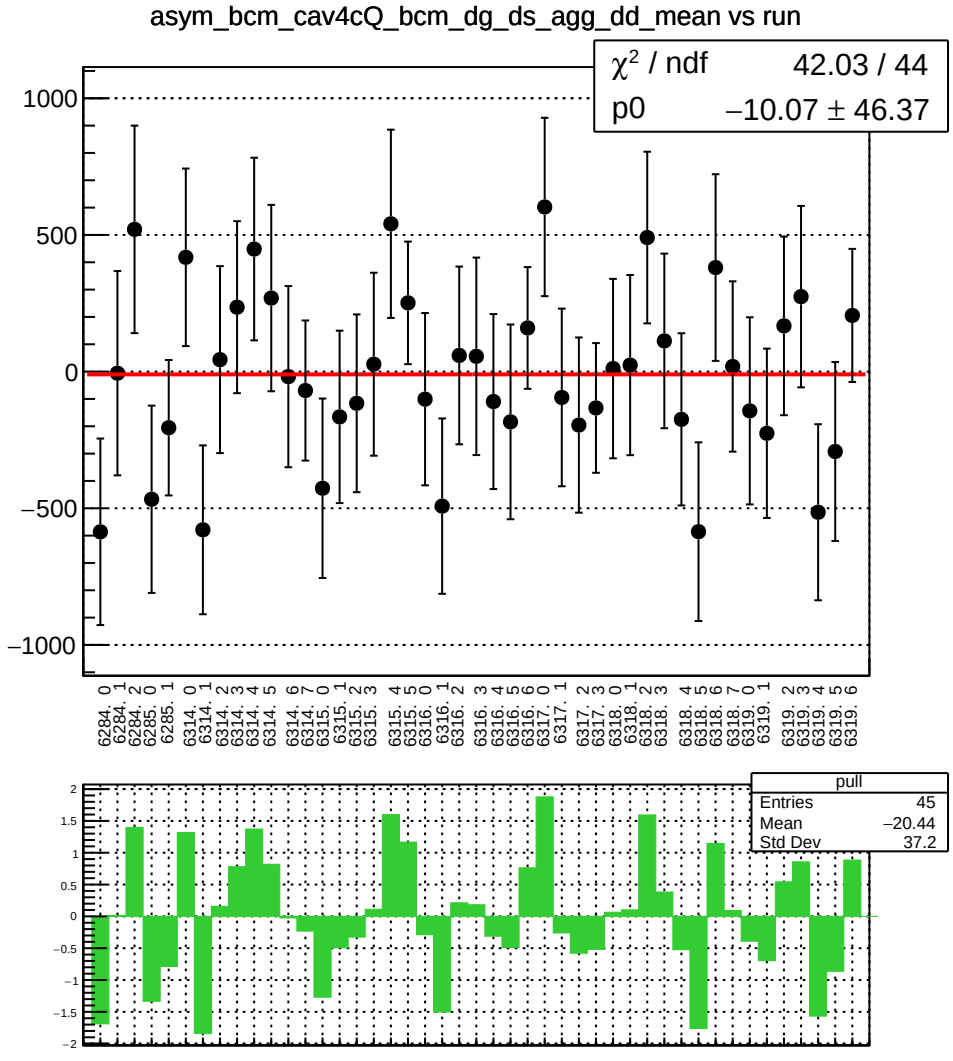
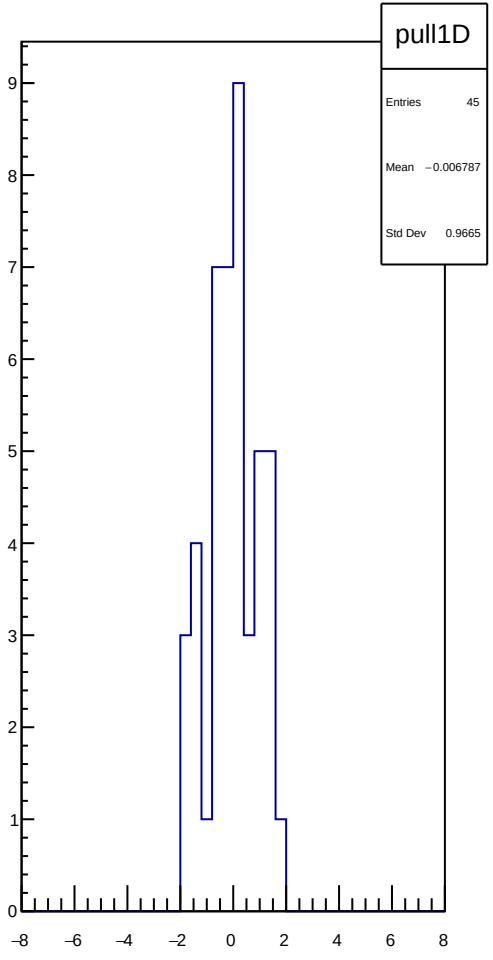
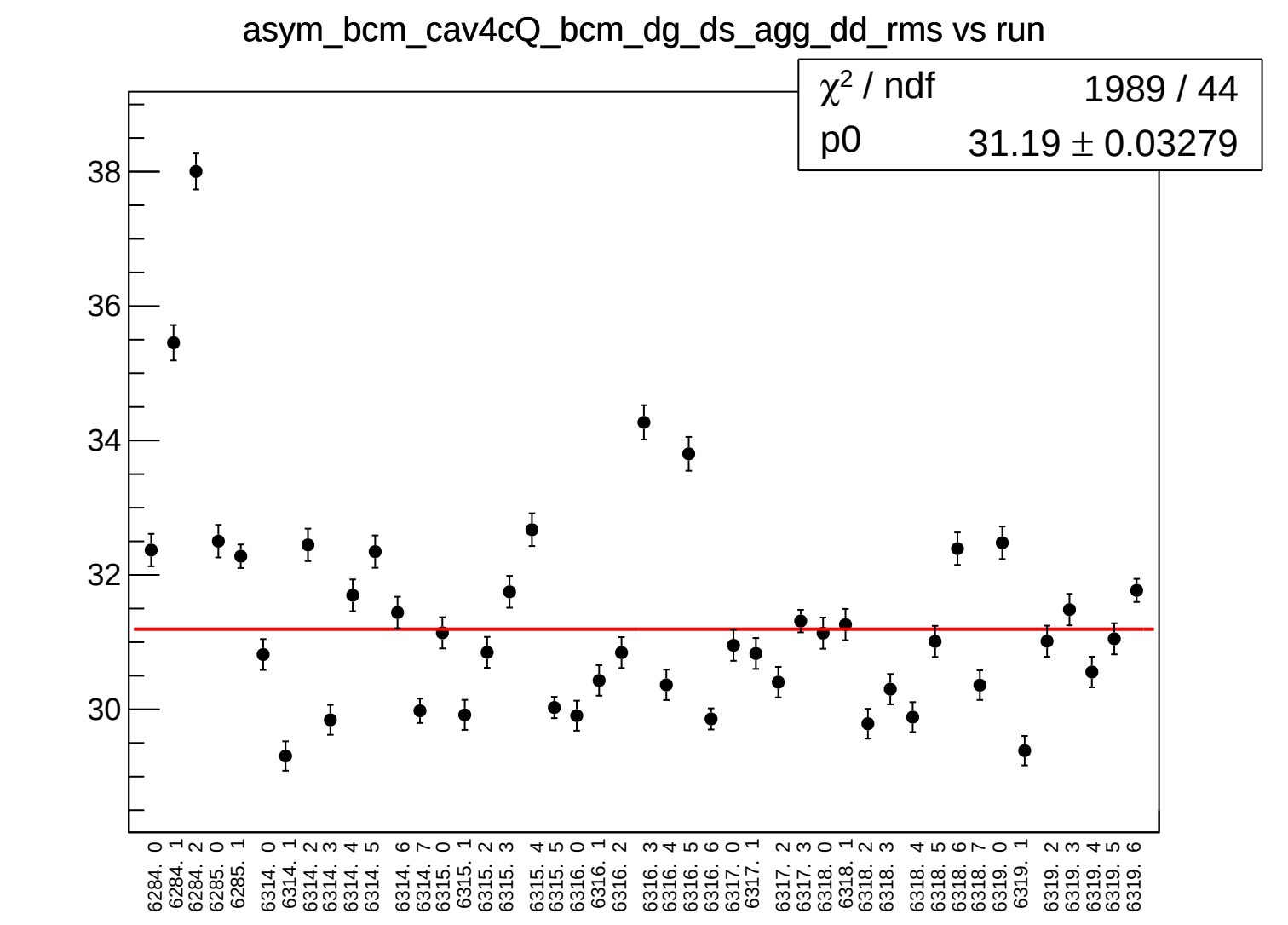
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

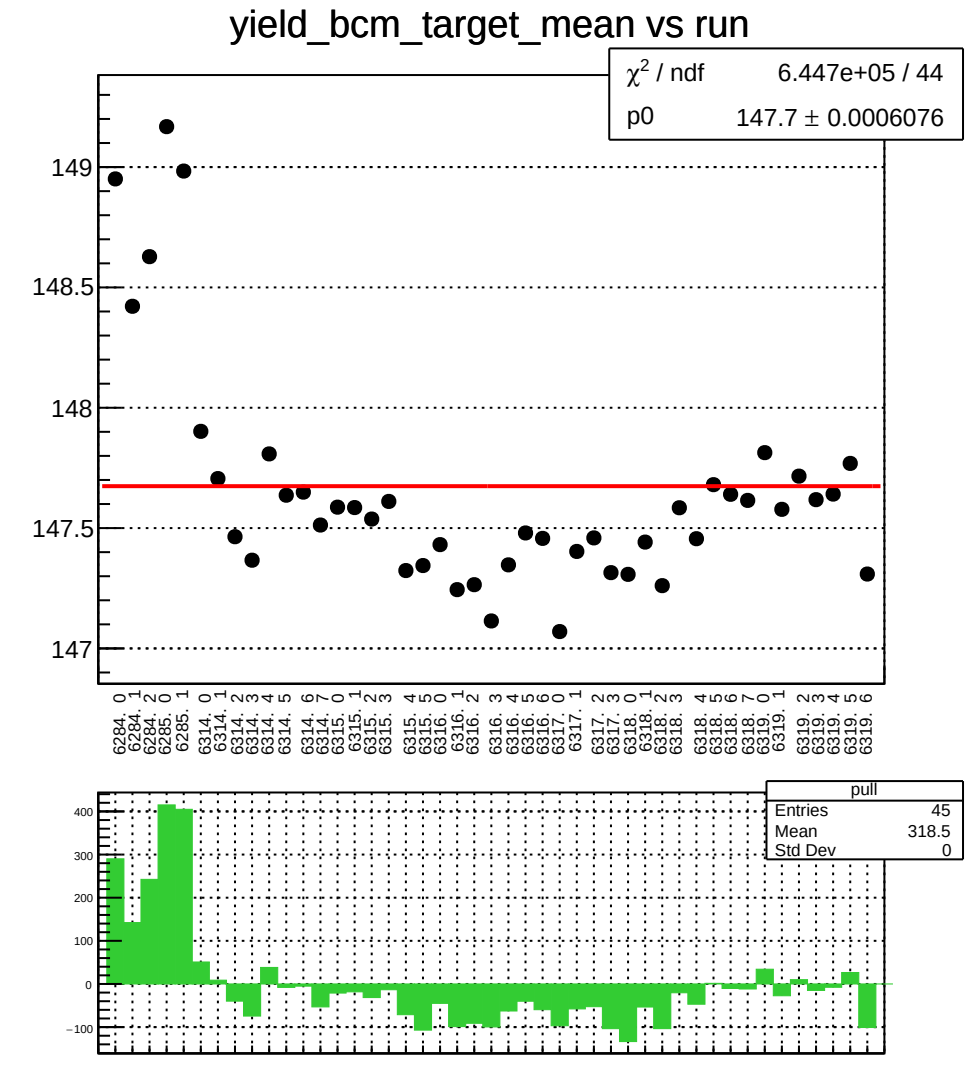

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.101 / 44
p0 140.1 ± 416.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −190.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.001099
Std Dev 0.3972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

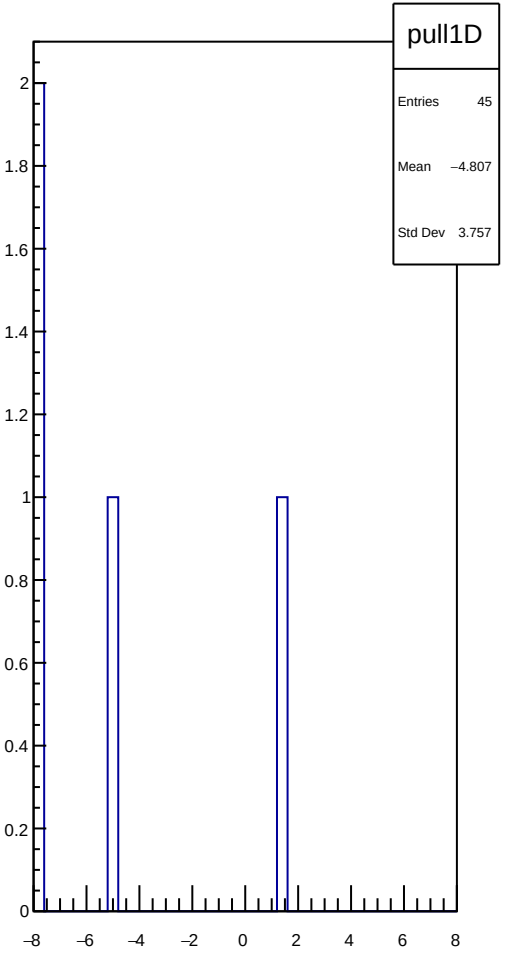

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.695e+04 / 44
p0 278 ± 0.2947
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

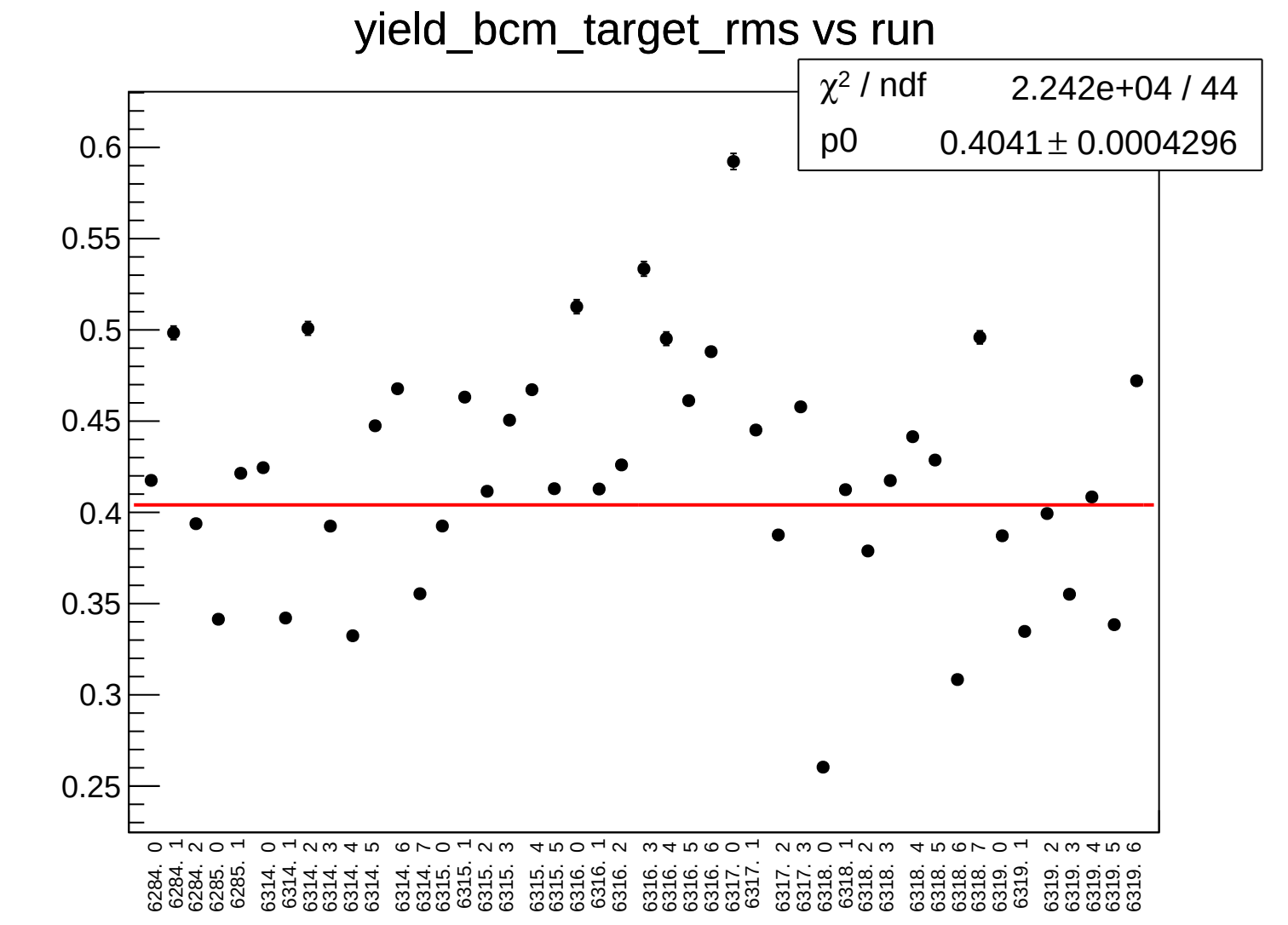

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.03 / 44
p0 −10.07 ± 46.37
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −20.44
Std Dev 37.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

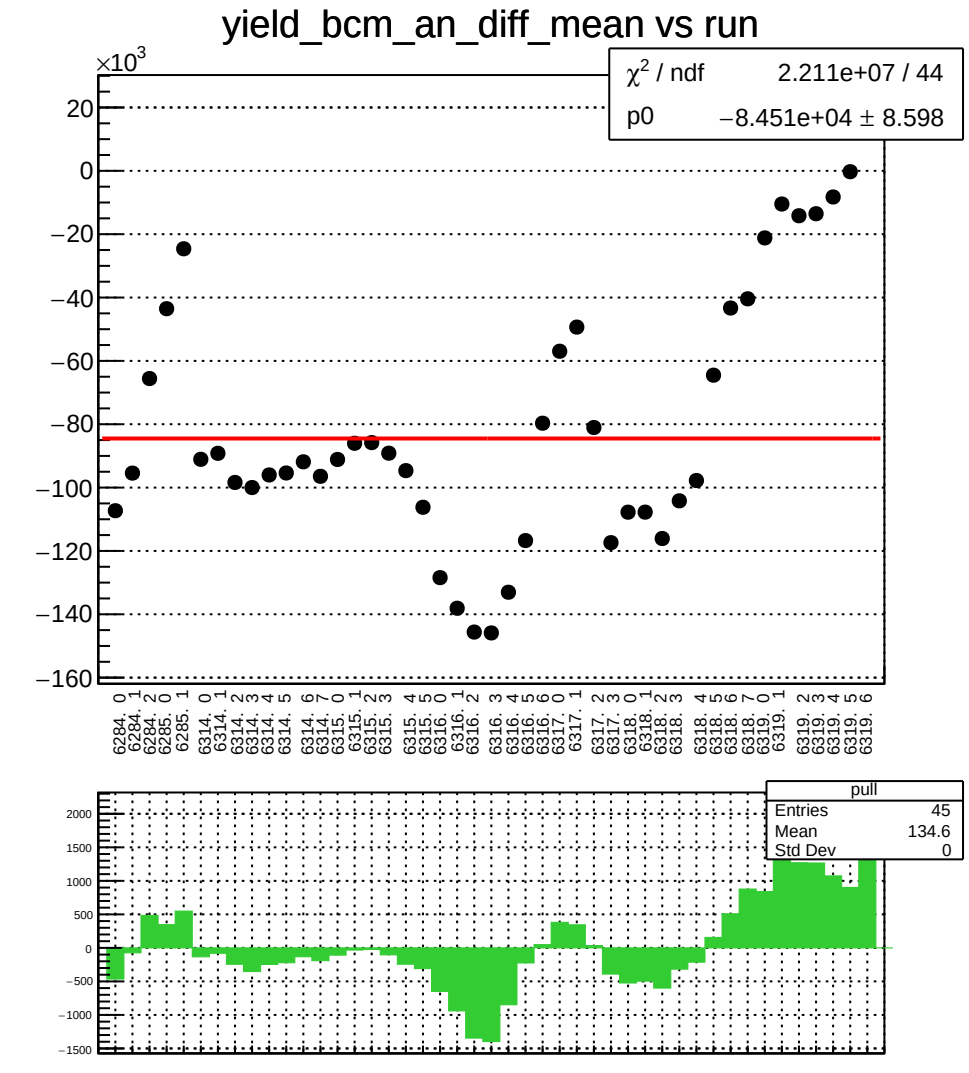

pull1D
Entries 45
Mean −0.006787
Std Dev 0.9665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

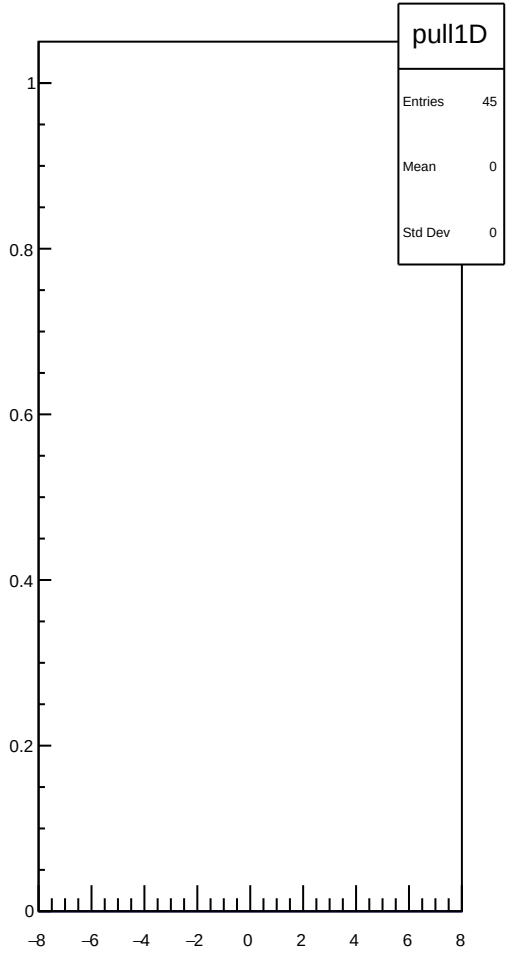

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1989 / 44
p0 31.19 ± 0.03279
38
36
34
32
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

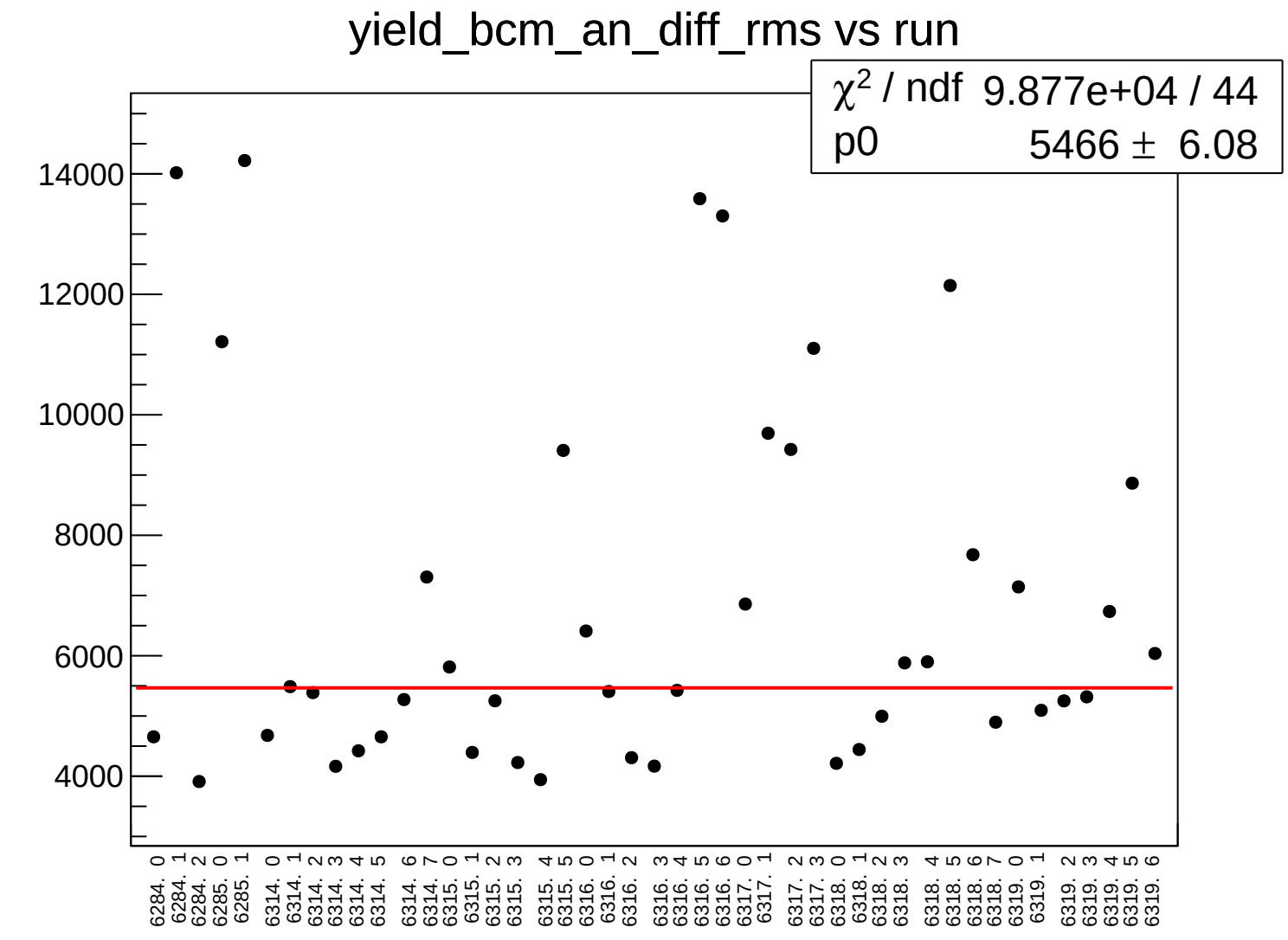

yield_bcm_target_mean vs run
χ² / ndf 6.447e+05 / 44
p0 147.7 ± 0.0006076
149
148.5
148
147.5
147
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 318.5
Std Dev 0
400
300
200
100
0
−100

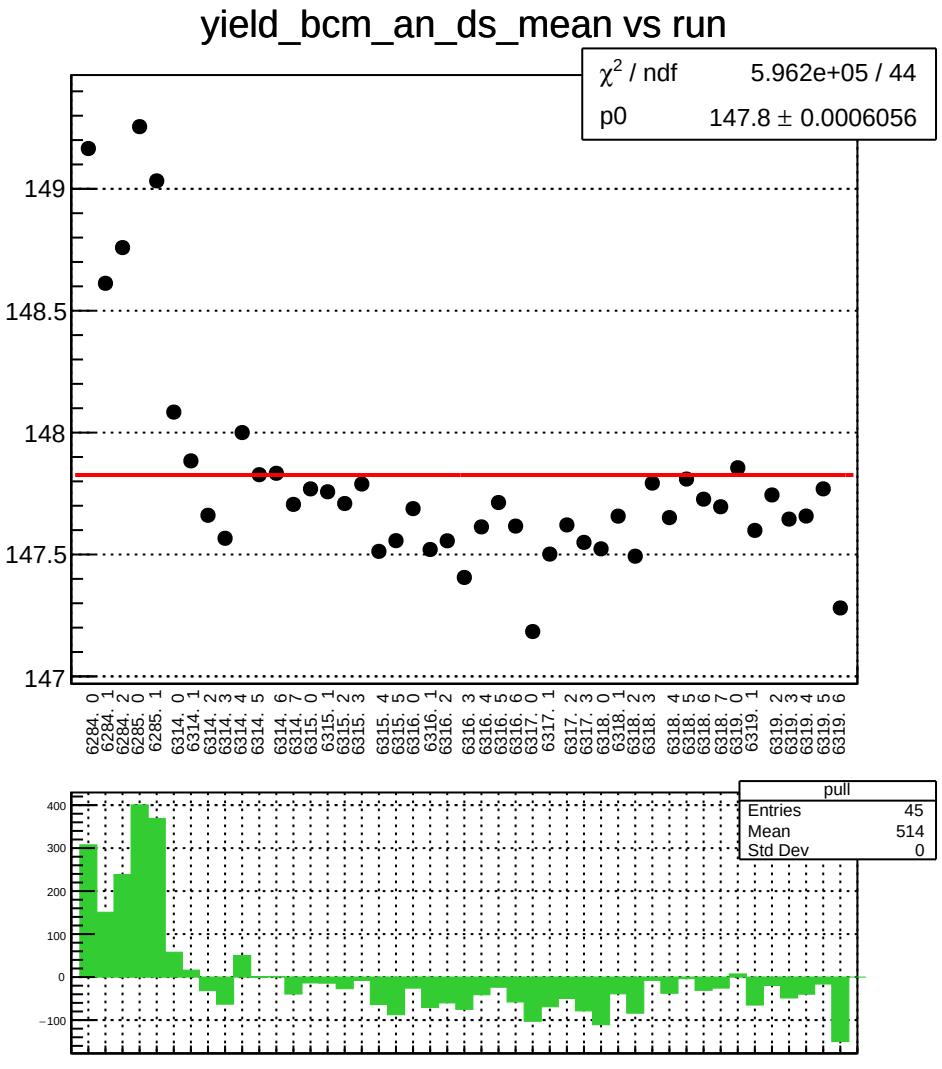

pull1D
Entries 45
Mean −4.807
Std Dev 3.757
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

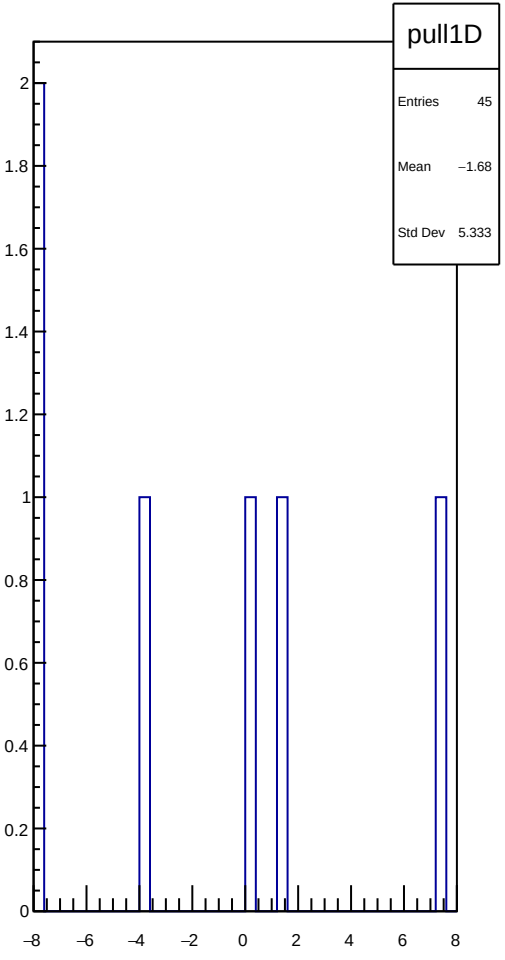

yield_bcm_target_rms vs run
χ² / ndf 2.242e+04 / 44
p0 0.4041 ± 0.0004296
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

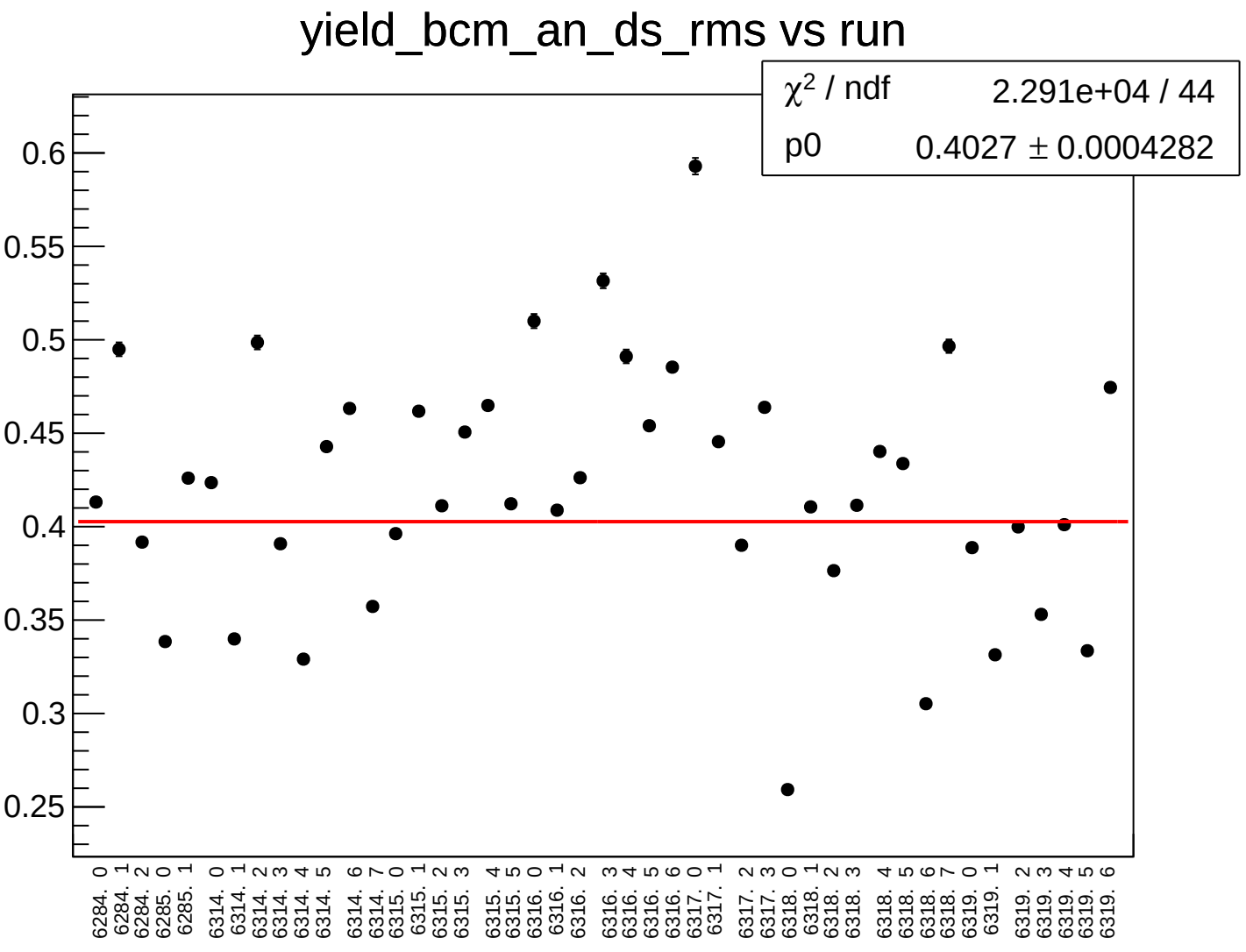

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 2.211e+07 / 44
p0 −8.451e+04 ± 8.598
pull
Entries 45
Mean 134.6
Std Dev 0

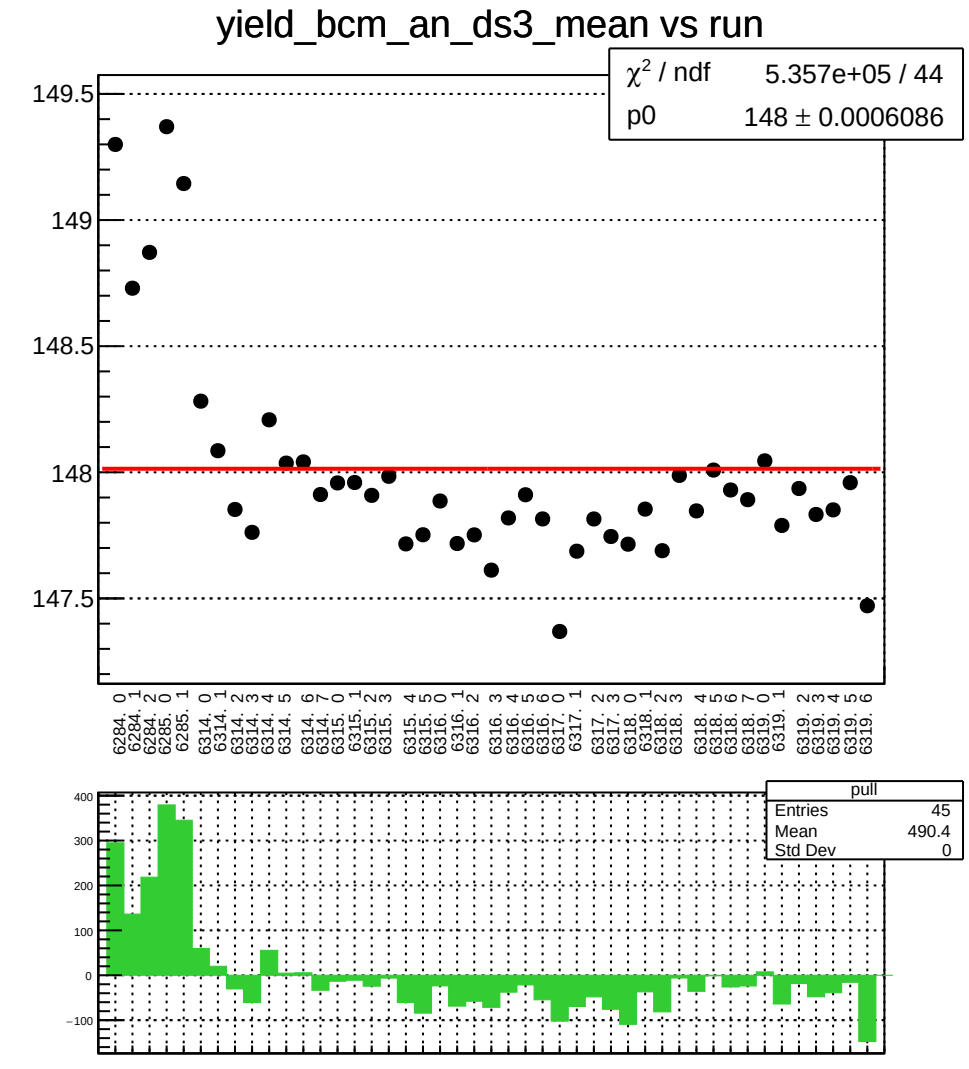

pull1D
Entries 45
Mean 0
Std Dev 0

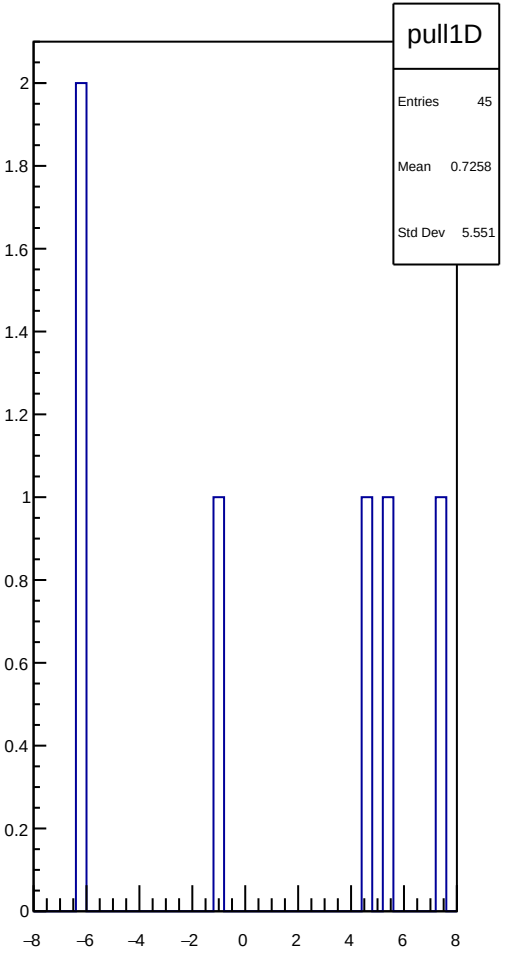

yield_bcm_an_diff_rms vs run
χ² / ndf 9.877e+04 / 44
p0 5466 ± 6.08
14000
12000
10000
8000
6000
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

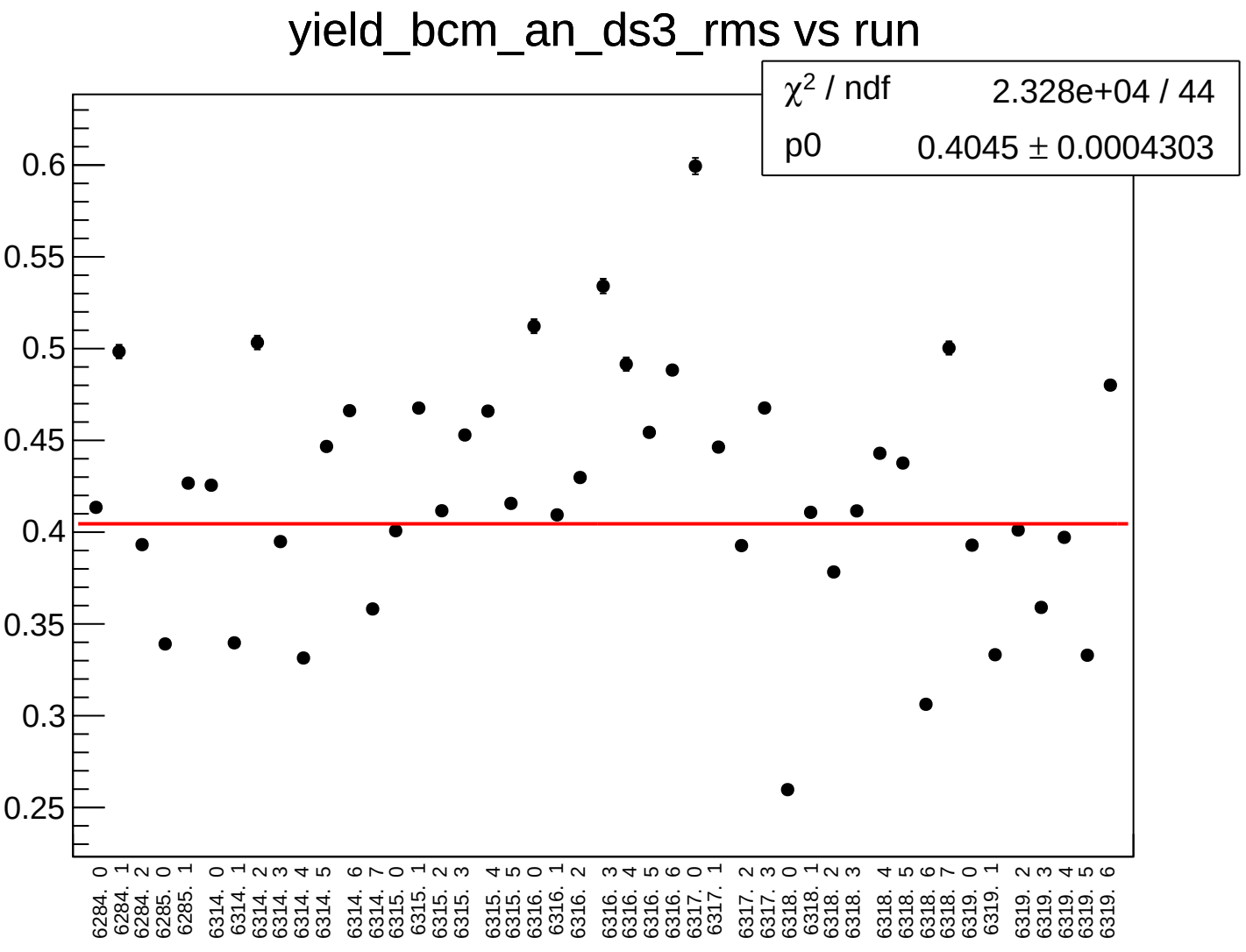

yield_bcm_an_ds_mean vs run
χ² / ndf 5.962e+05 / 44
p0 147.8 ± 0.0006056
149
148.5
148
147.5
147
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 514
Std Dev 0
400
300
200
100
0
−100

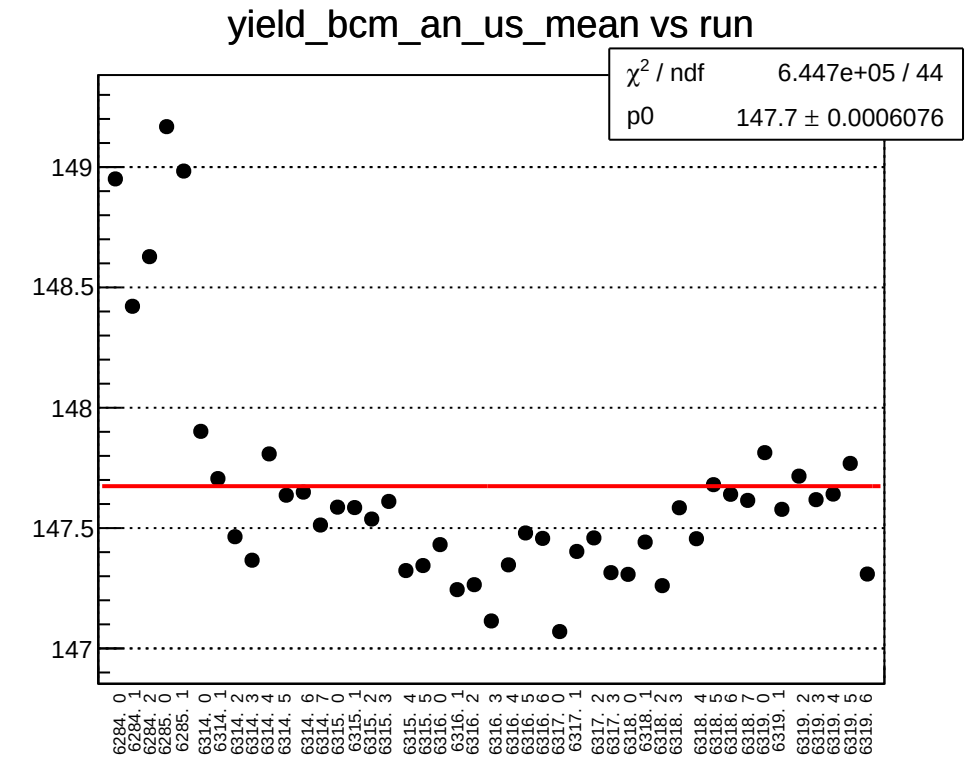

pull1D
Entries 45
Mean −1.68
Std Dev 5.333
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 2.291e+04 / 44
p0 0.4027 ± 0.0004282
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bcm_an_ds3_mean vs run
χ² / ndf 5.357e+05 / 44
p0 148 ± 0.0006086
149.5
149
148.5
148
147.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 490.4
Std Dev 0
400
300
200
100
0
−100


pull1D
Entries 45
Mean 0.7258
Std Dev 5.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 2.328e+04 / 44
p0 0.4045 ± 0.0004303
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bcm_an_us_mean vs run
χ² / ndf 6.447e+05 / 44
p0 147.7 ± 0.0006076
149
148.5
148
147.5
147
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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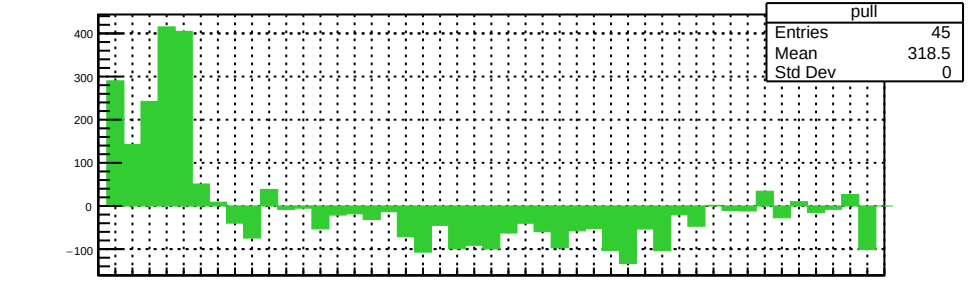
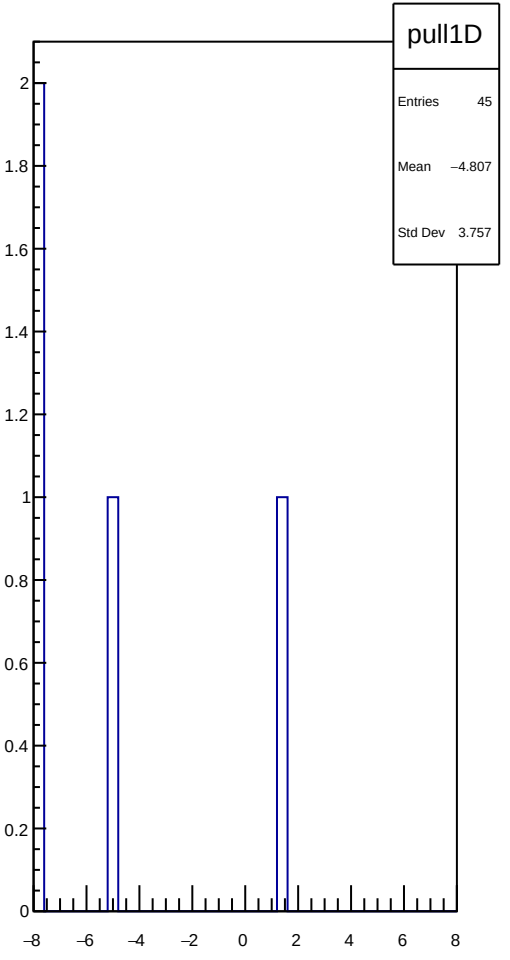
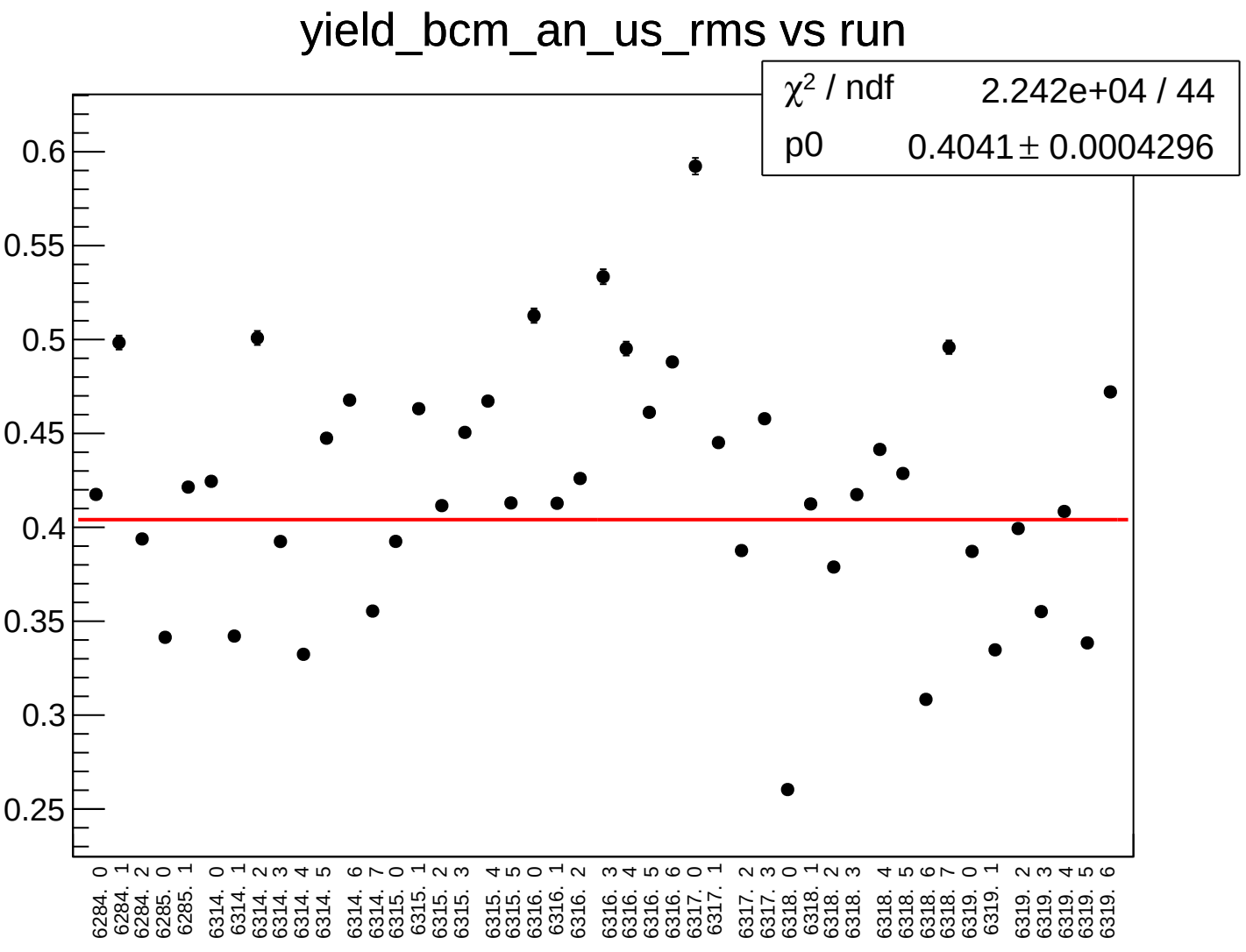
6319. 6


pull
Entries 45
Mean 318.5
Std Dev 0
400
300
200
100
0
−100


pull1D
Entries 45
Mean −4.807
Std Dev 3.757
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ² / ndf 2.242e+04 / 44
p0 0.4041 ± 0.0004296
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6319. 2
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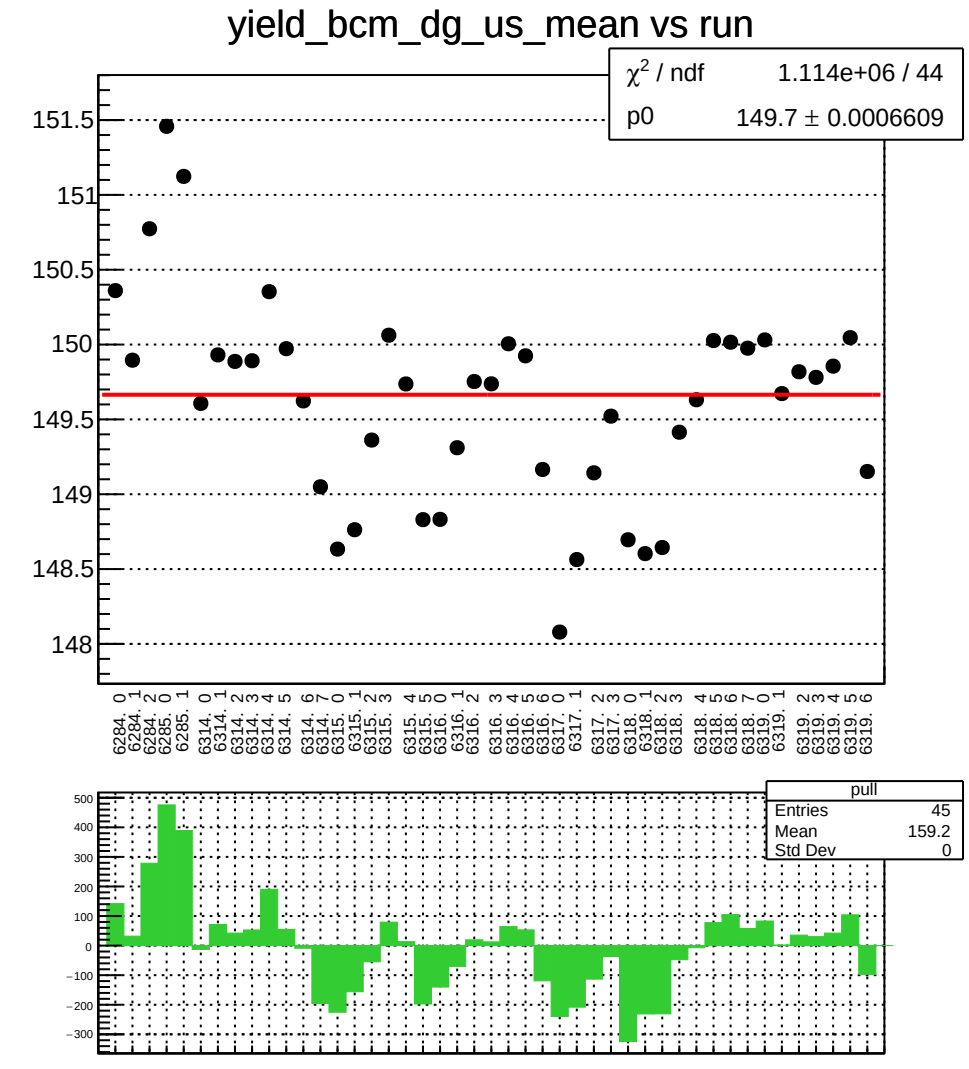
yield_bcm_dg_us_mean vs run
χ² / ndf 1.114e+06 / 44
p0 149.7 ± 0.0006609
151.5
151
150.5
150
149.5
149
148.5
148
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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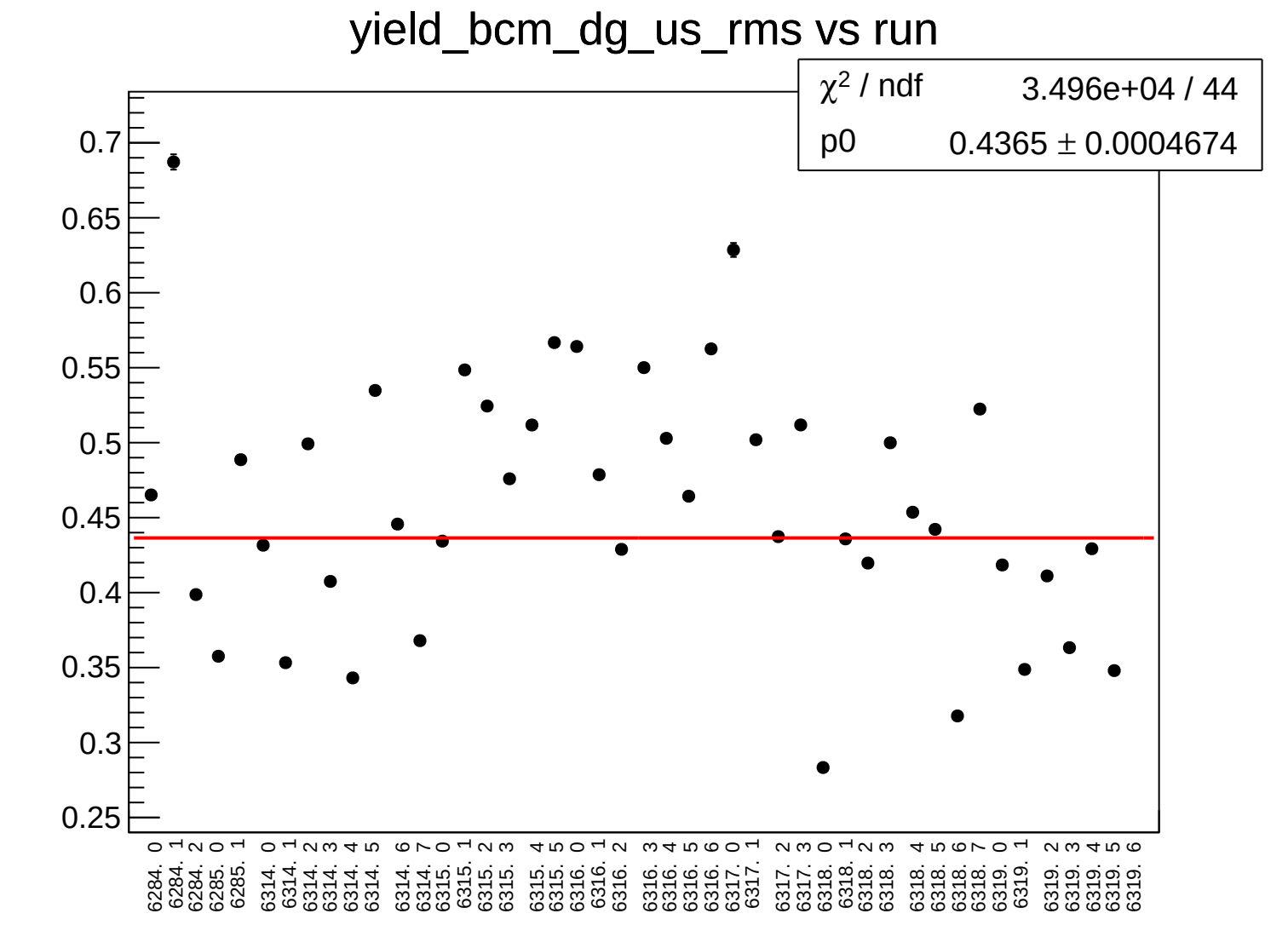
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 159.2
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean −2.46
Std Dev 4.546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_us_rms vs run
χ² / ndf 3.496e+04 / 44
p0 0.4365 ± 0.0004674
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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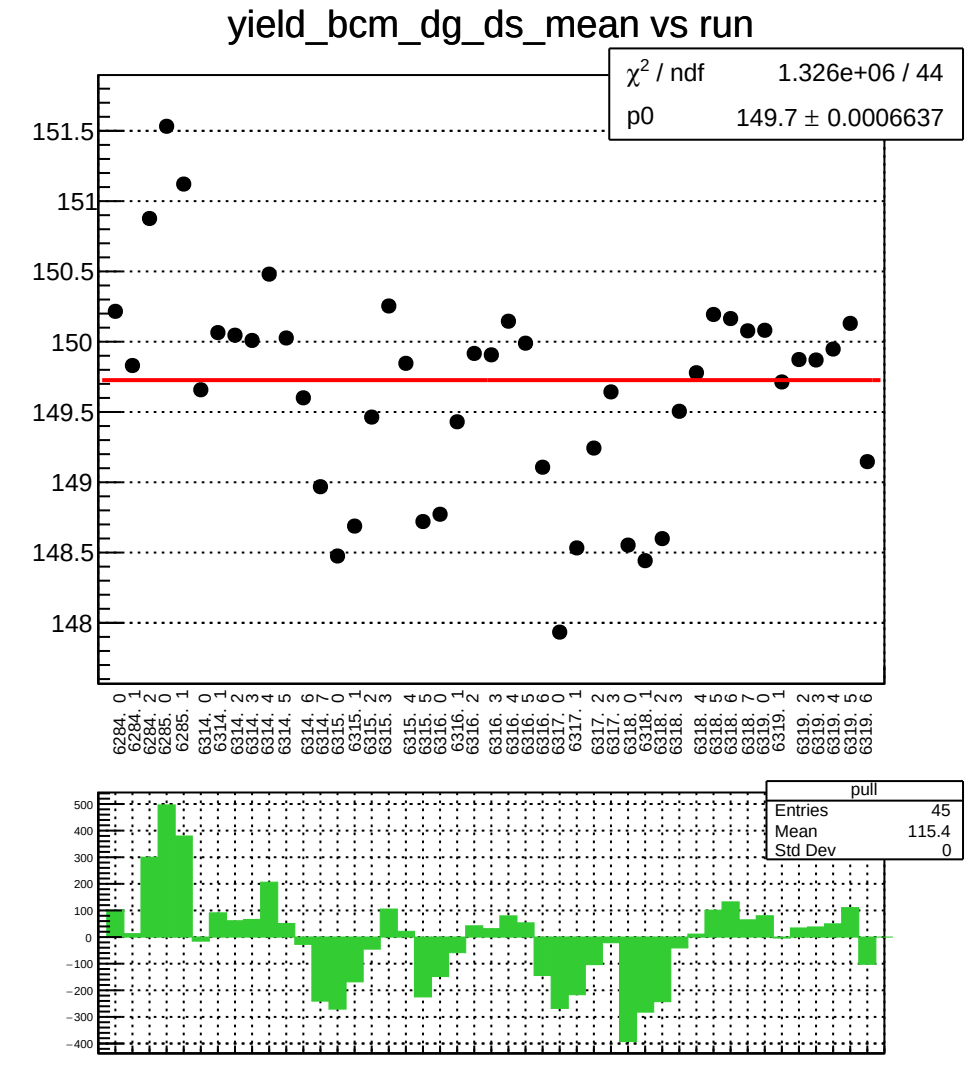
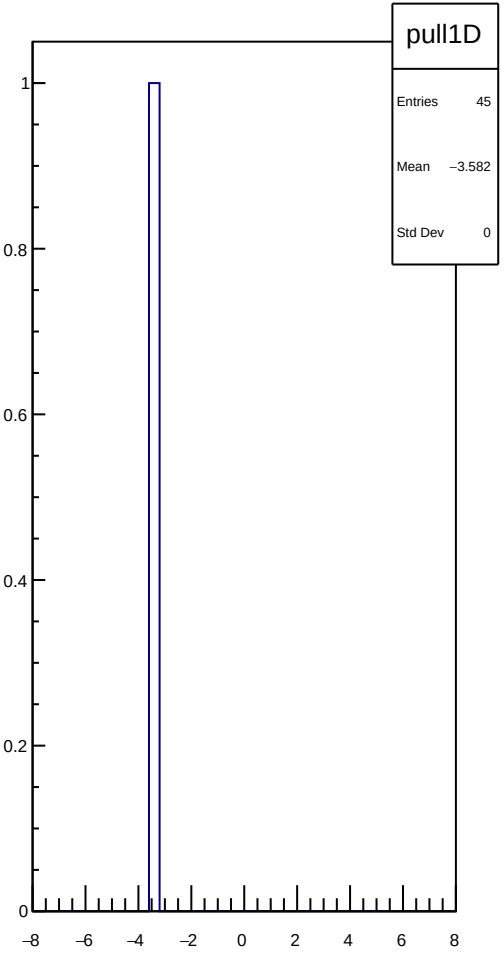
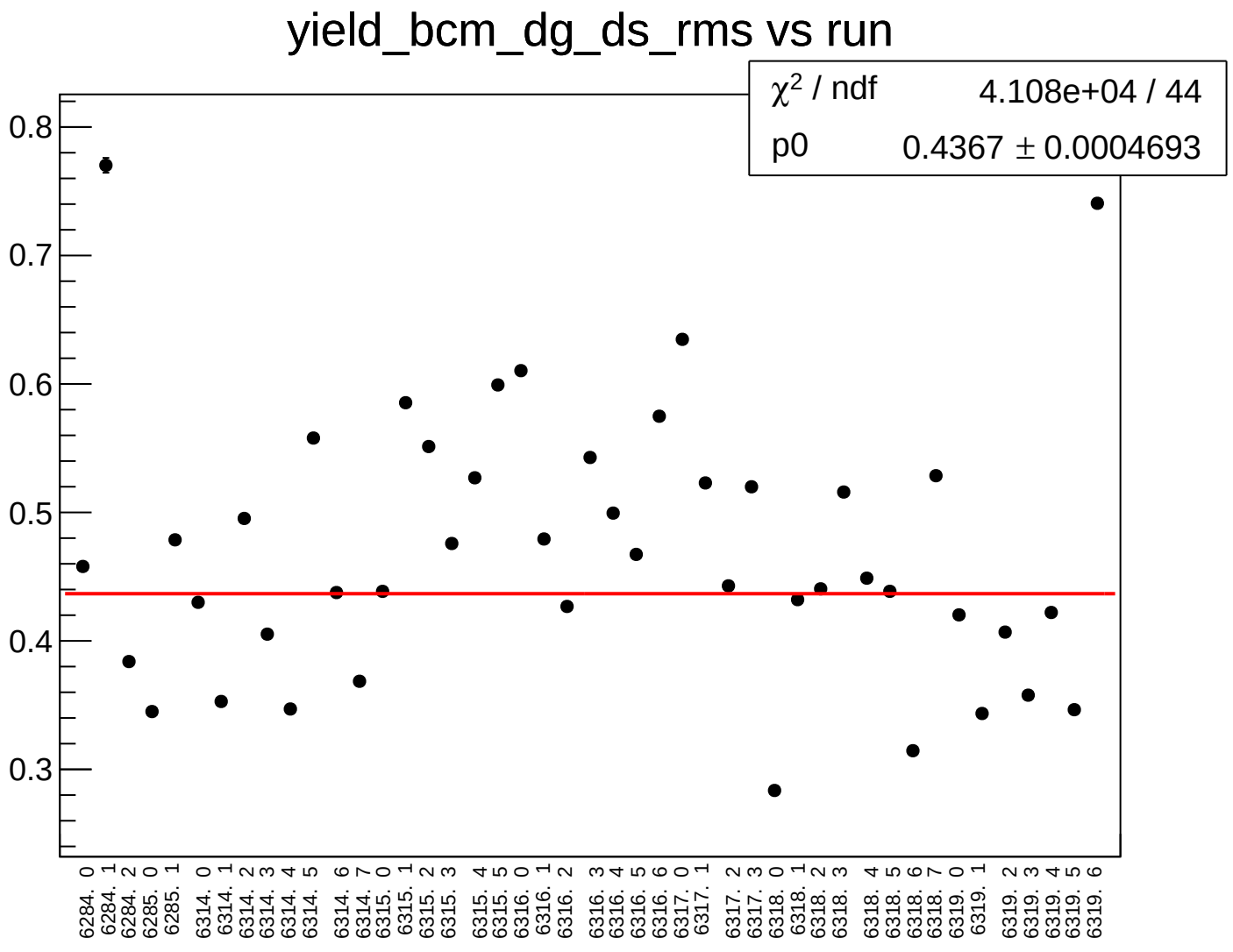
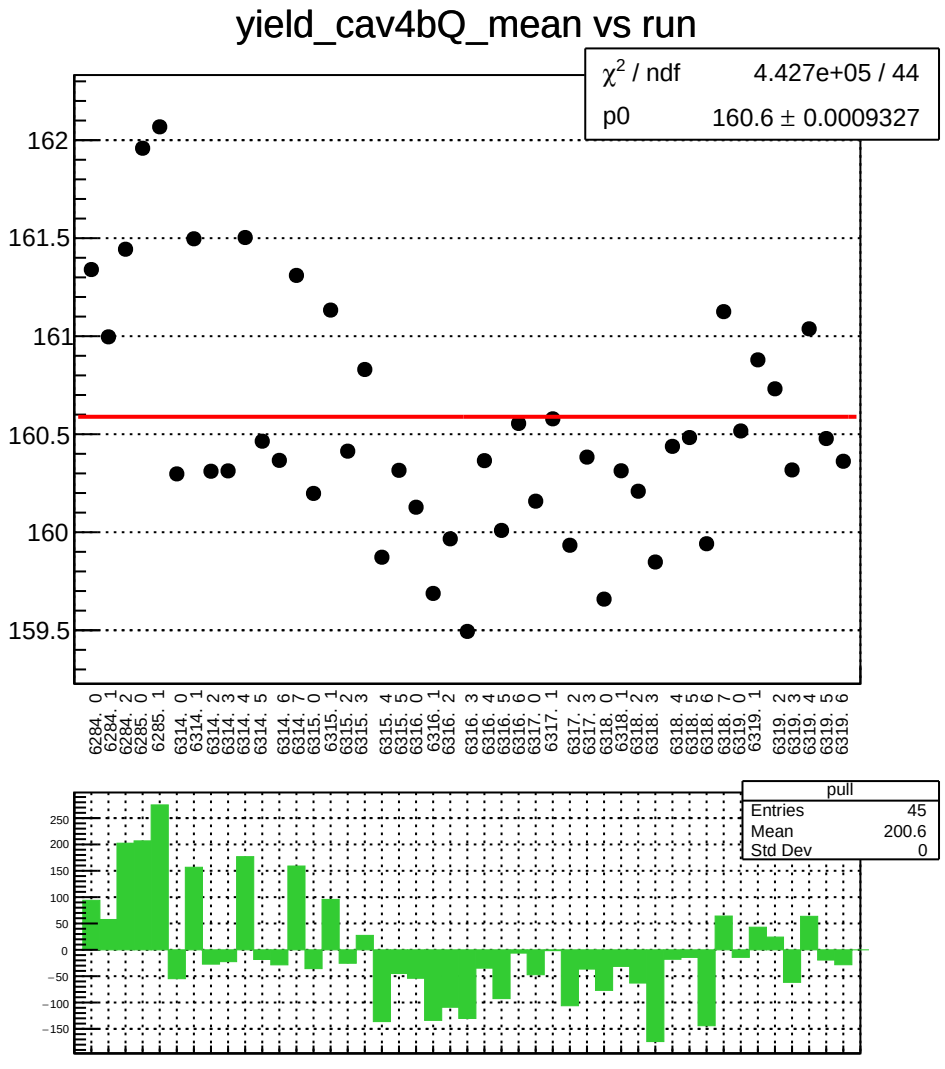
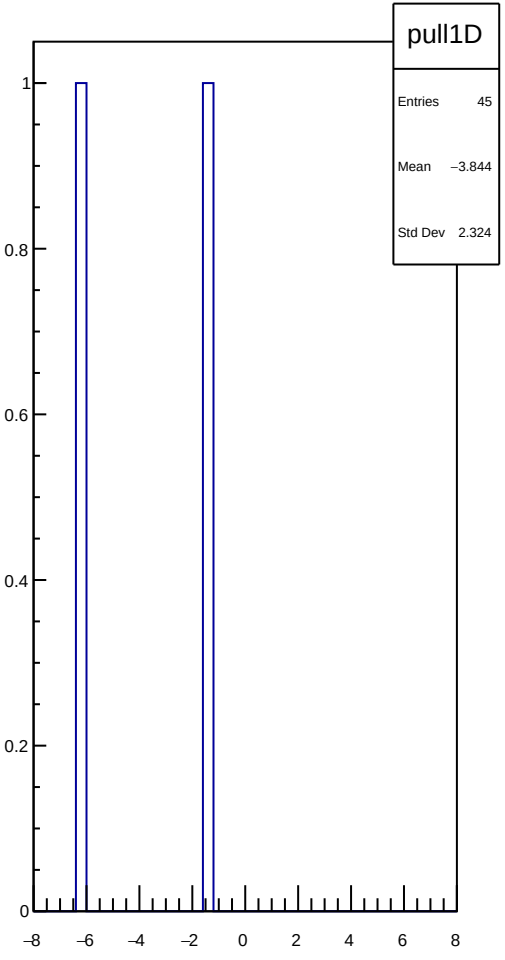
6319. 5
6319. 6

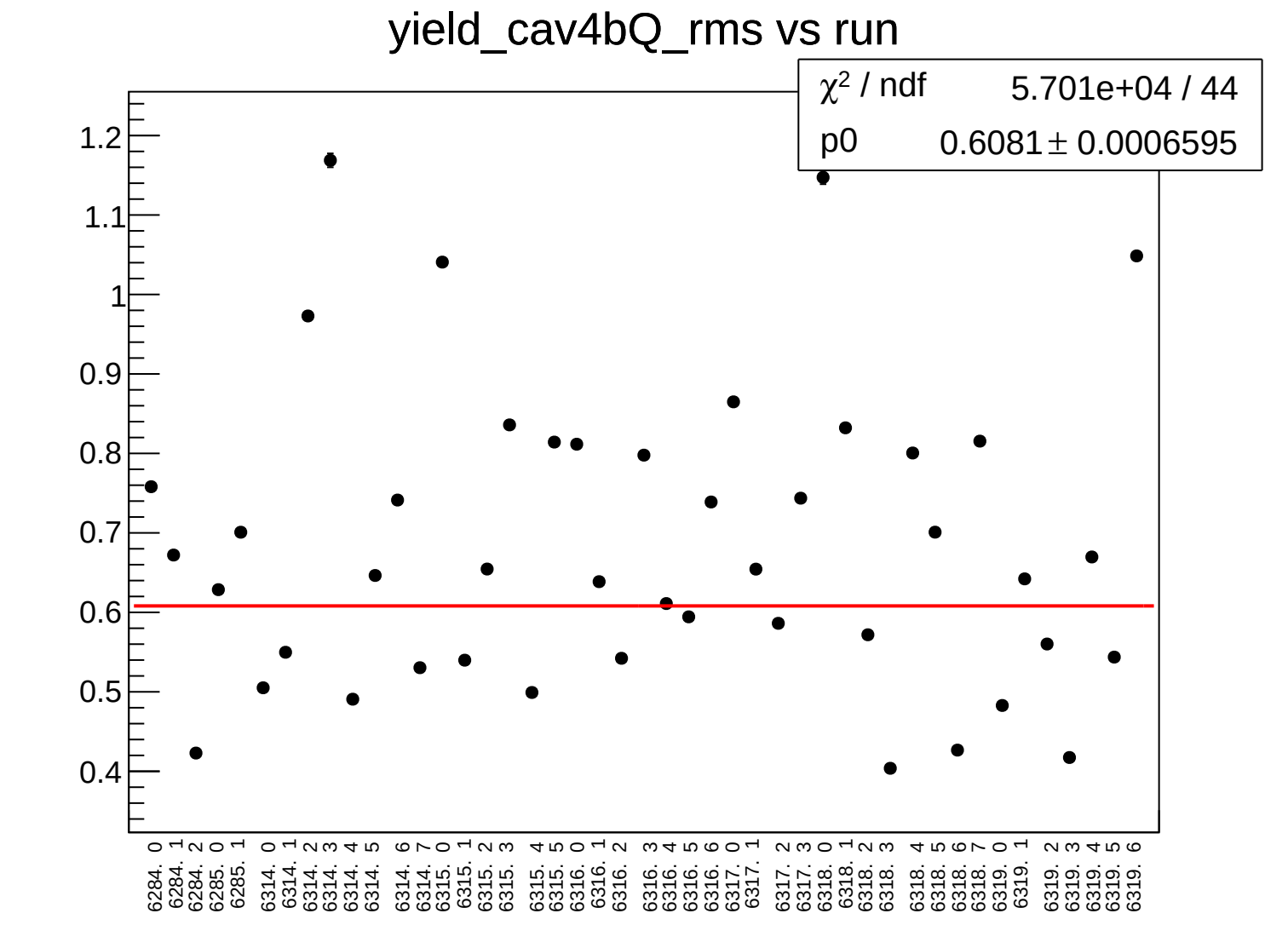

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.326e+06 / 44
p0 149.7 ± 0.0006637
151.5
151
150.5
150
149.5
149
148.5
148
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 115.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

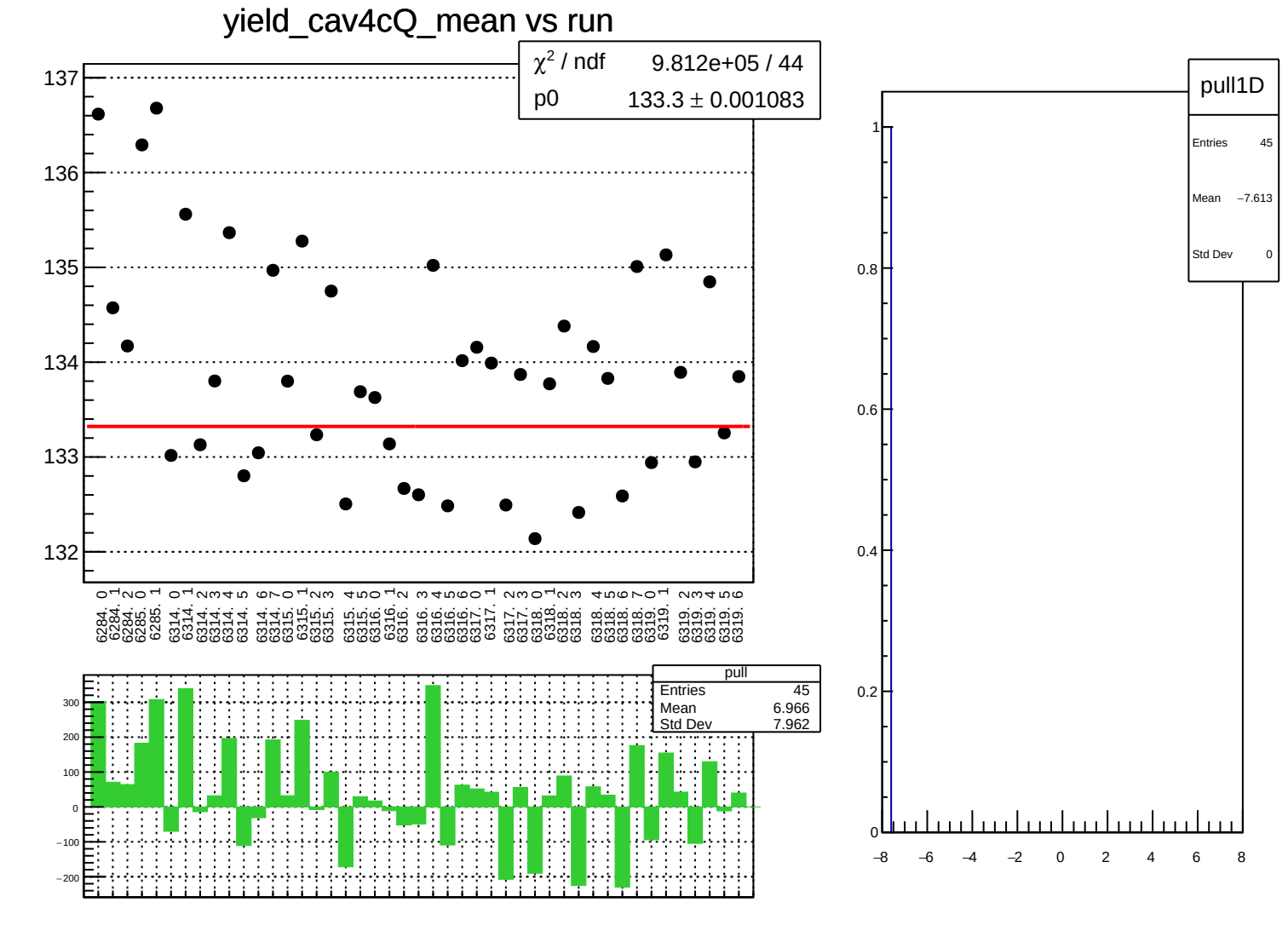

pull1D
Entries 45
Mean −3.582
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

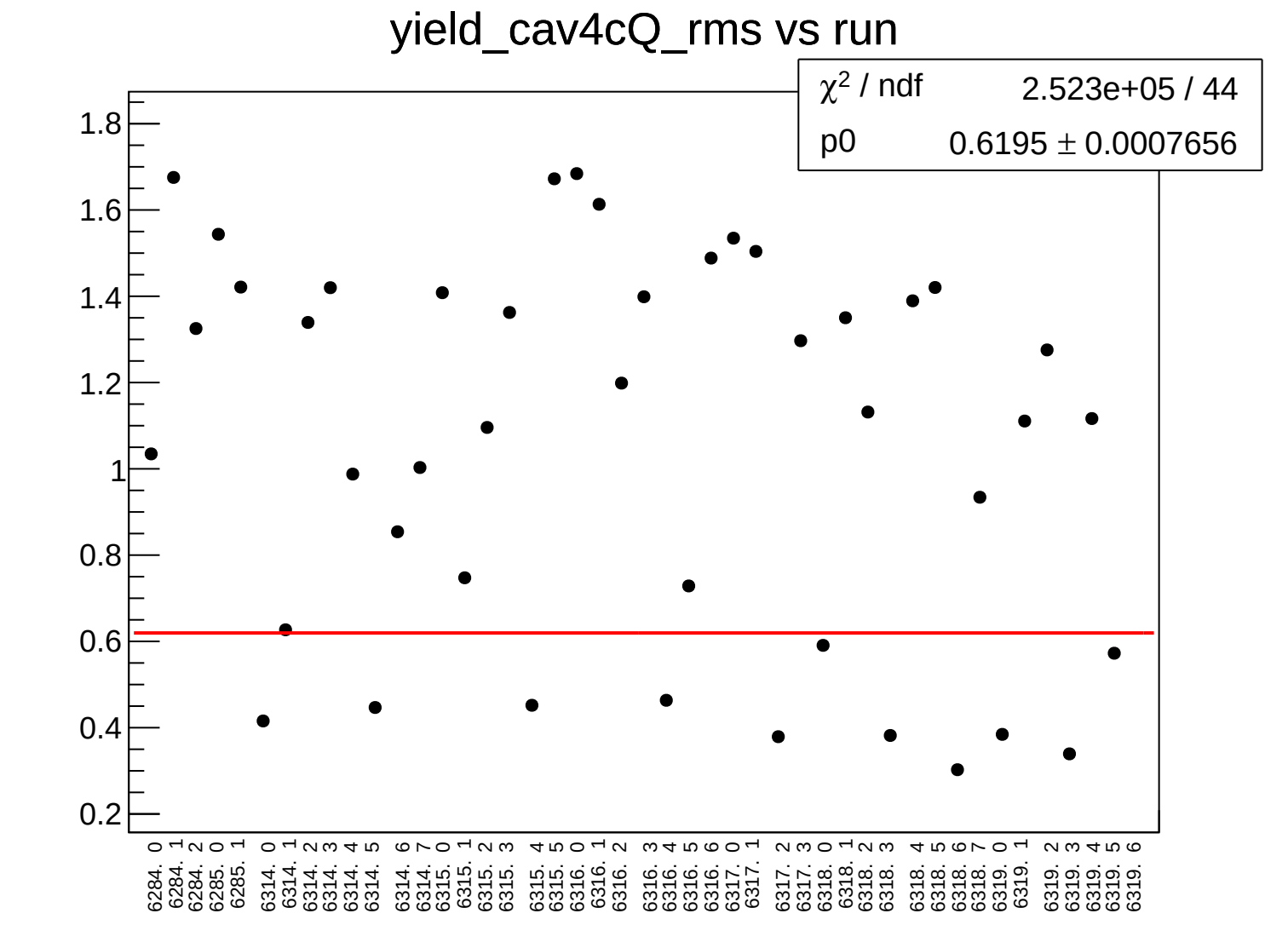

yield_bcm_dg_ds_rms vs run
χ² / ndf 4.108e+04 / 44
p0 0.4367 ± 0.0004693
0.8
0.7
0.6
0.5
0.4
0.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_cav4bQ_mean vs run
χ² / ndf 4.427e+05 / 44
p0 160.6 ± 0.0009327
162
161.5
161
160.5
160
159.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 200.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150


pull1D
Entries 45
Mean −3.844
Std Dev 2.324
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bQ_rms vs run
χ² / ndf 5.701e+04 / 44
p0 0.6081 ± 0.0006595
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_cav4cQ_mean vs run
χ² / ndf 9.812e+05 / 44
p0 133.3 ± 0.001083
137
136
135
134
133
132
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.966
Std Dev 7.962
300
200
100
0
−100
−200
pull1D
Entries 45
Mean −7.613
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cQ_rms vs run
χ² / ndf 2.523e+05 / 44
p0 0.6195 ± 0.0007656
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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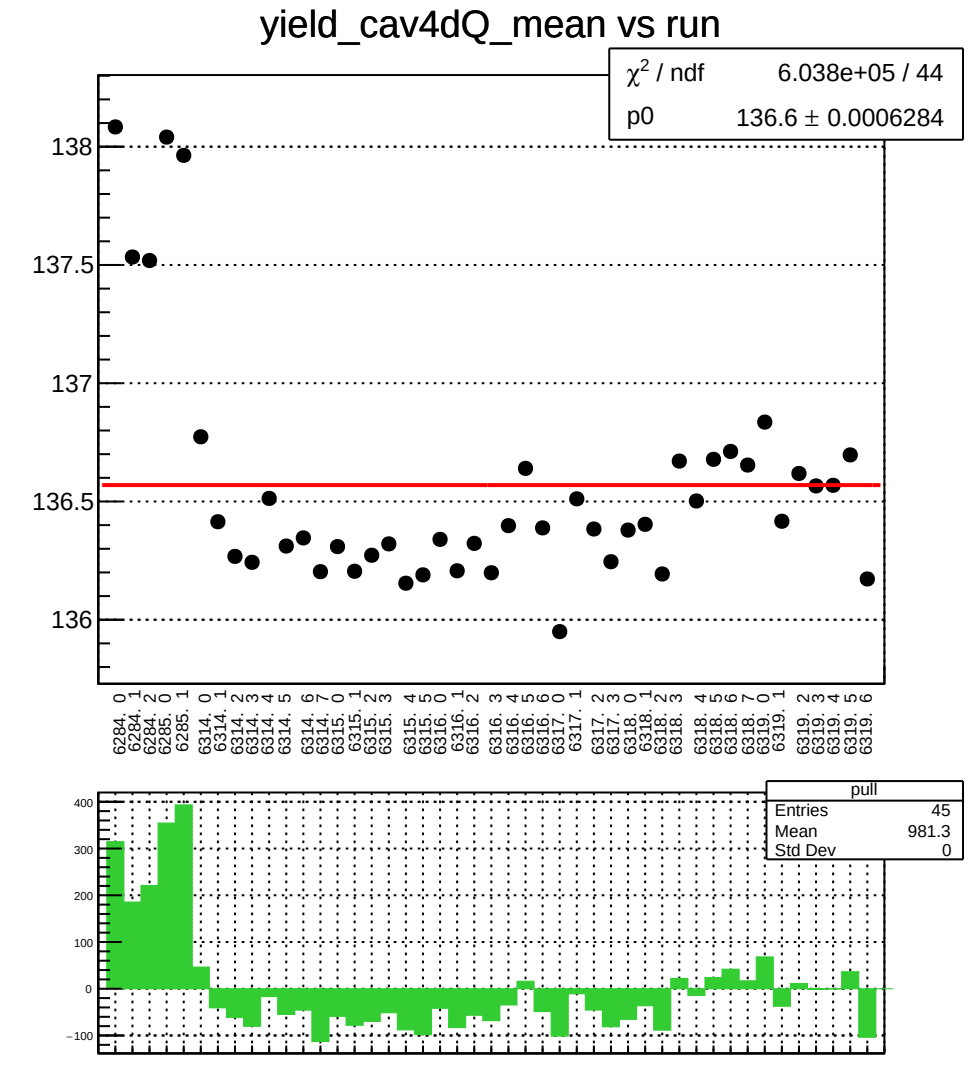
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_cav4dQ_mean vs run
χ² / ndf 6.038e+05 / 44
p0 136.6 ± 0.0006284
138
137.5
137
136.5
136
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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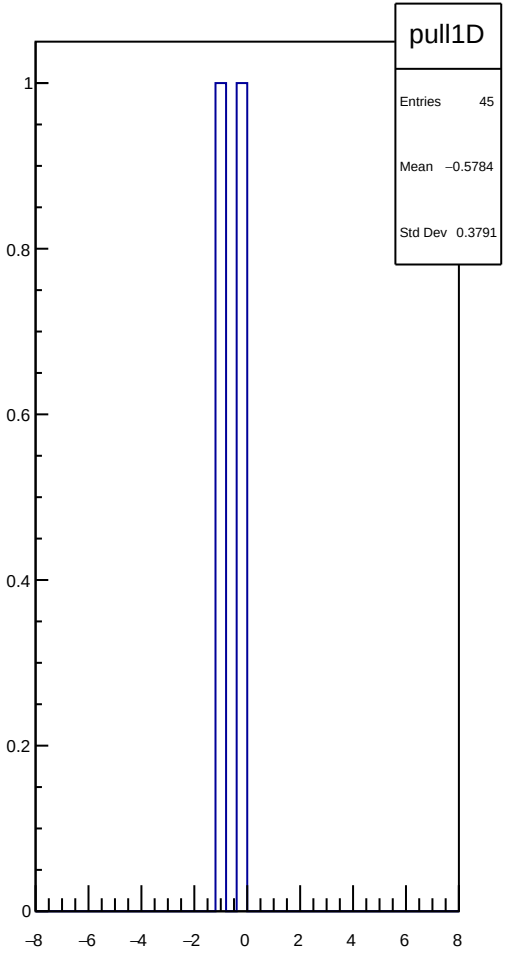
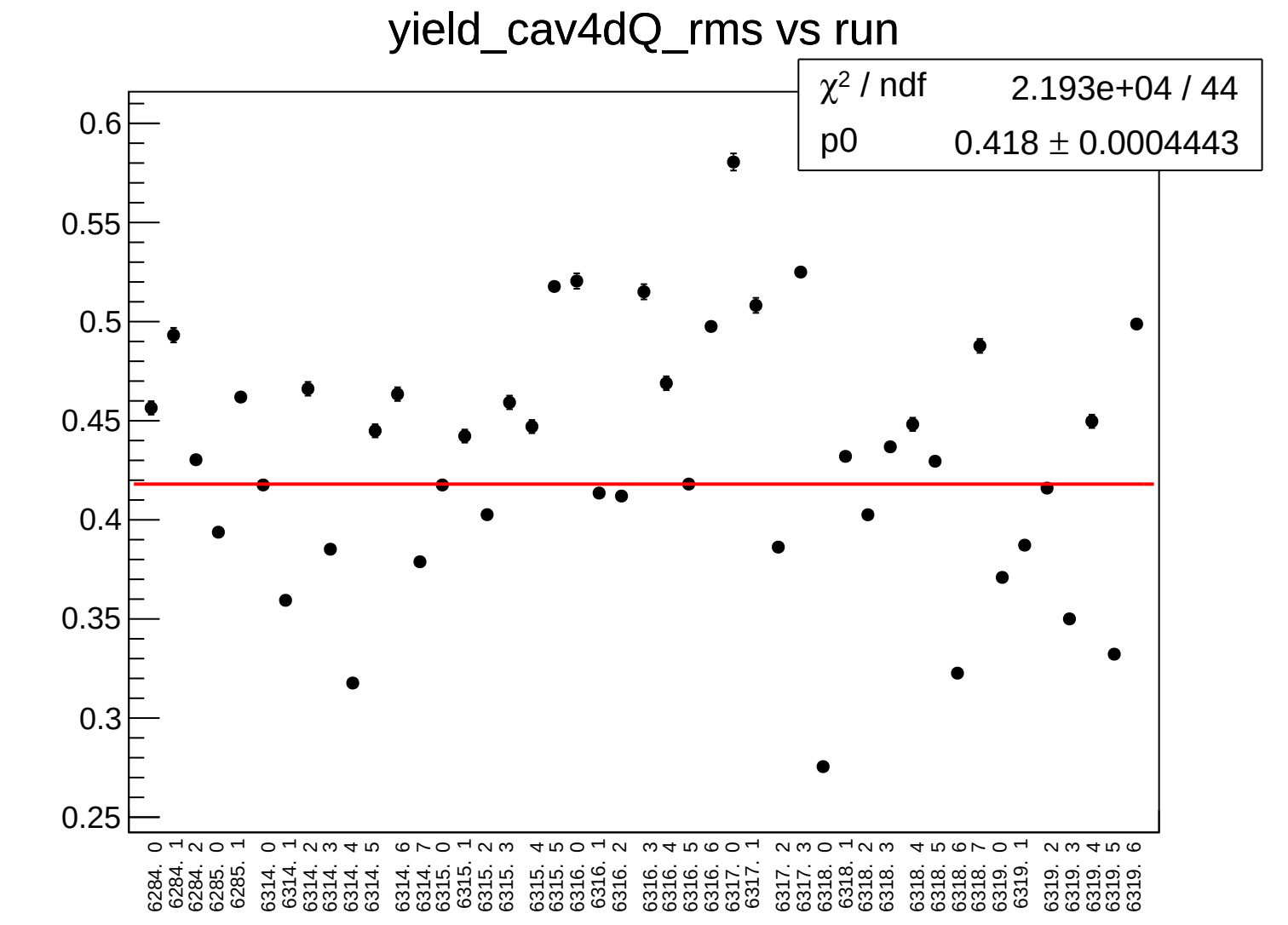
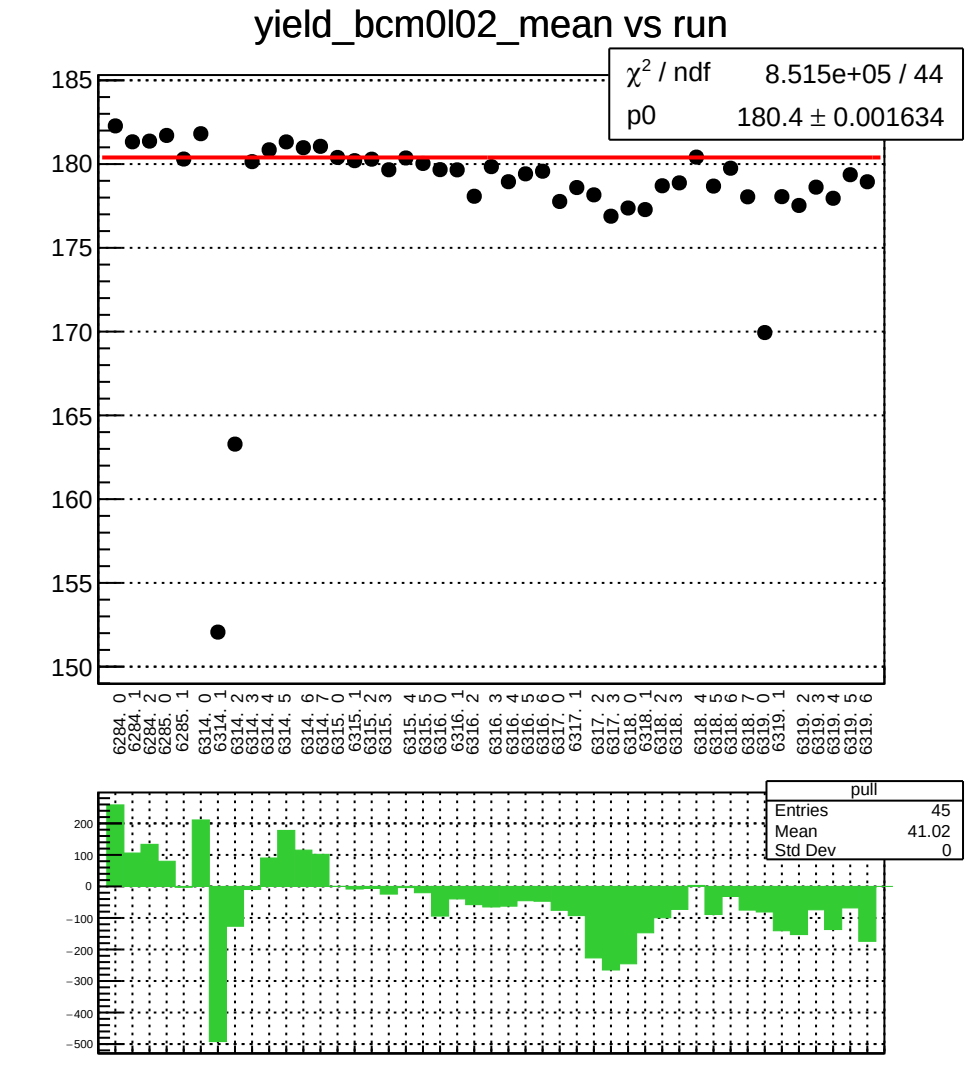
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 981.3
Std Dev 0
400
300
200
100
0
−100


pull1D
Entries 45
Mean −0.5784
Std Dev 0.3791
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dQ_rms vs run
χ² / ndf 2.193e+04 / 44
p0 0.418 ± 0.0004443
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bcm0l02_mean vs run
χ² / ndf 8.515e+05 / 44
p0 180.4 ± 0.001634
185
180
175
170
165
160
155
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6316. 6
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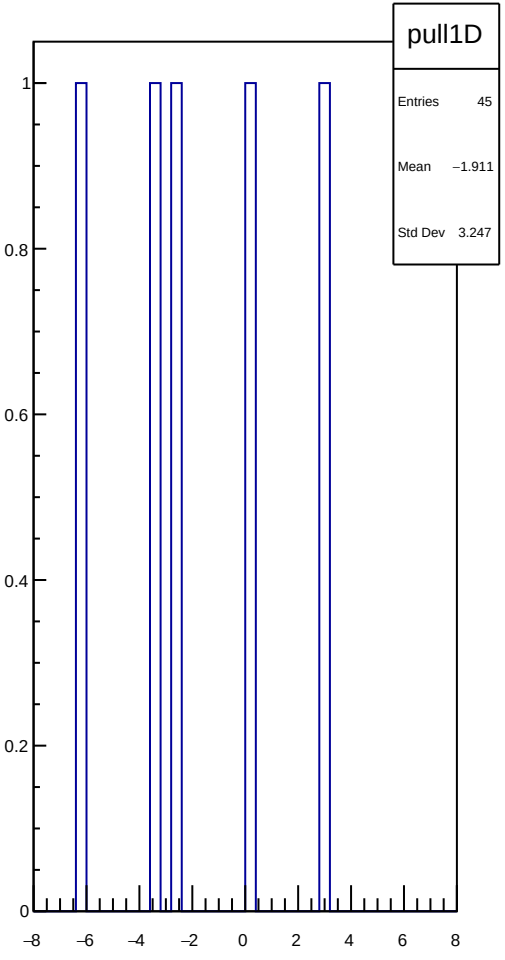
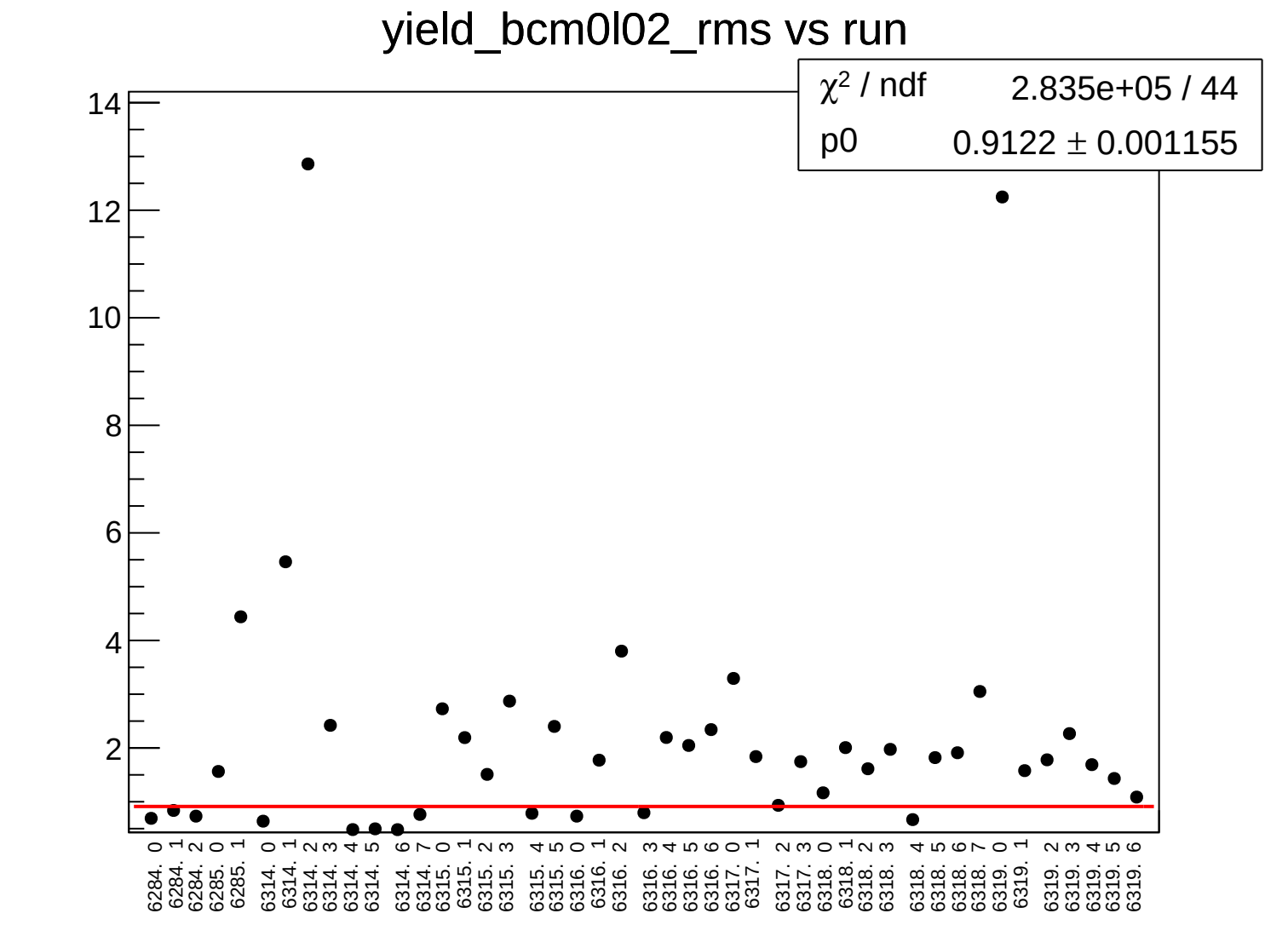
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 41.02
Std Dev 0
200
100
0
−100
−200
−300
−400
−500


pull1D
Entries 45
Mean −1.911
Std Dev 3.247
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm0l02_rms vs run
χ² / ndf 2.835e+05 / 44
p0 0.9122 ± 0.001155
14
12
10
8
6
4
2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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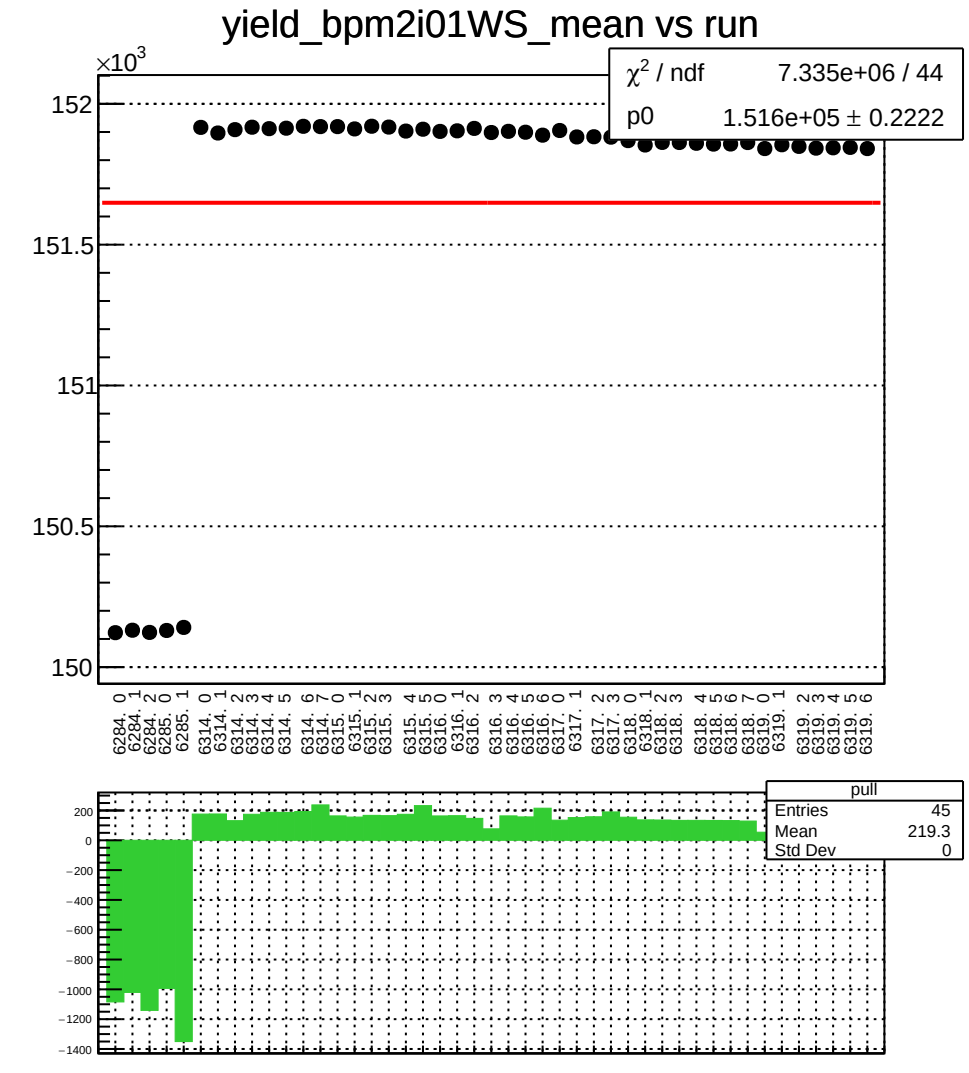
6319. 5
6319. 6


yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.335e+06 / 44
p0 1.516e+05 ± 0.2222
152
151.5
151
150.5
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
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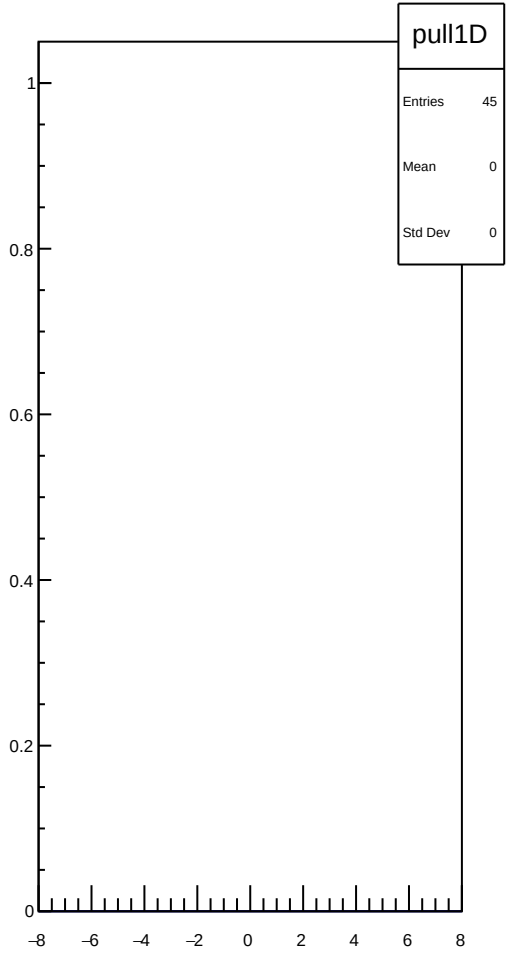
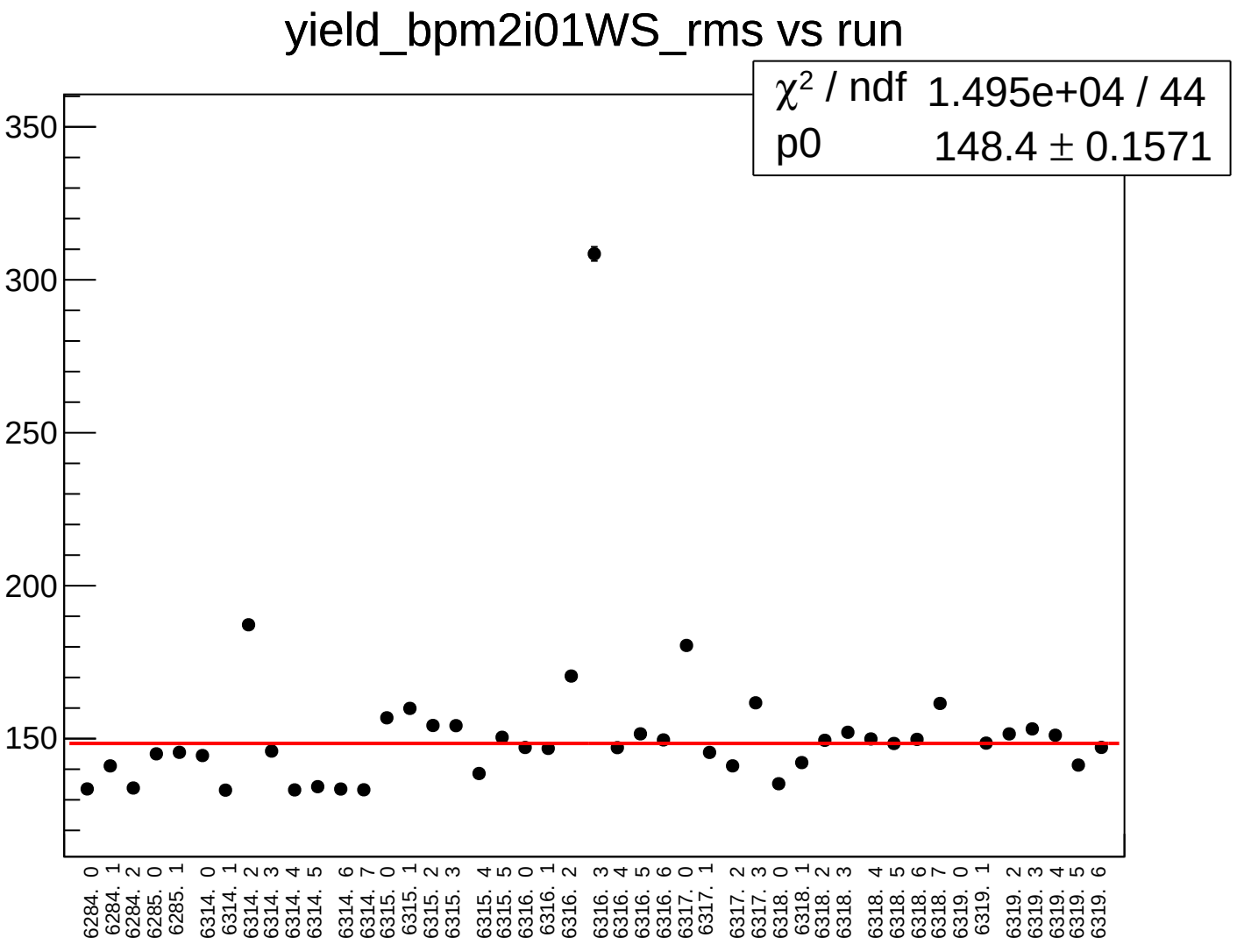
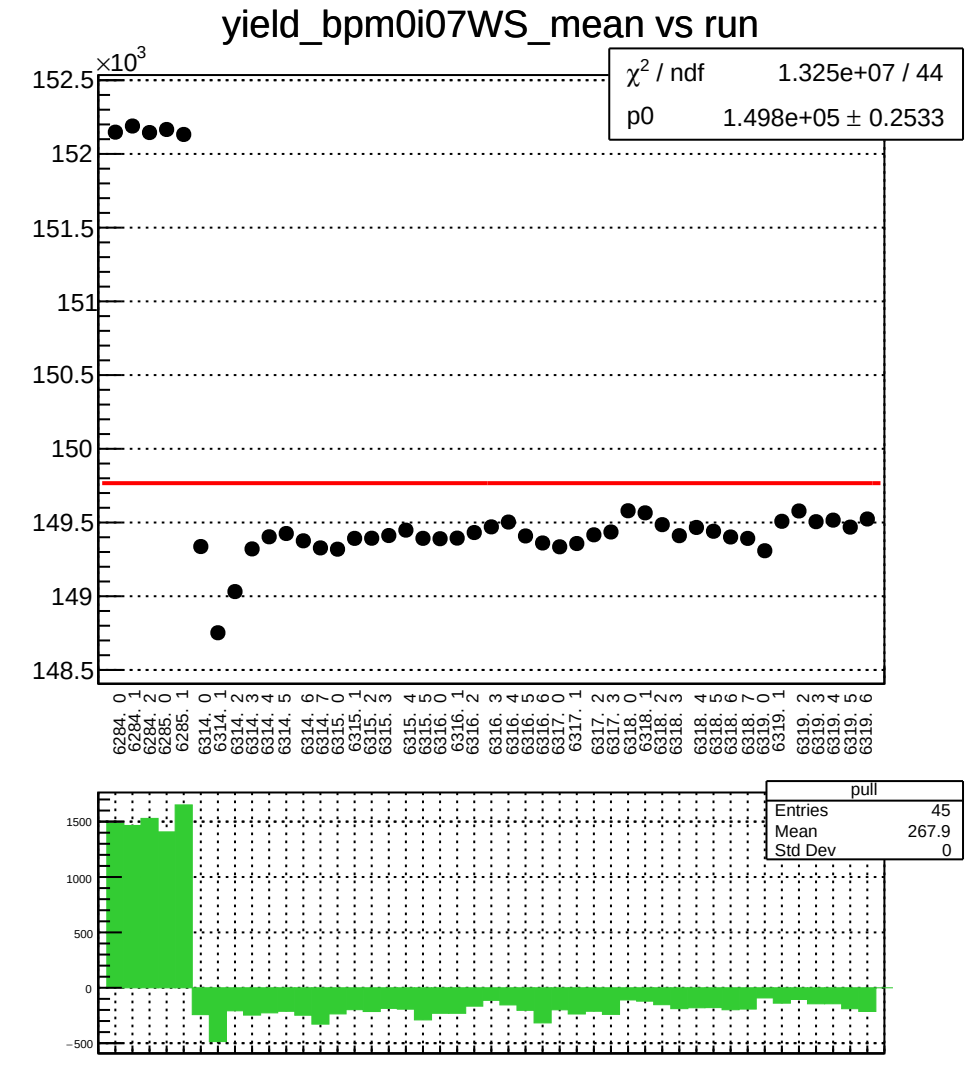
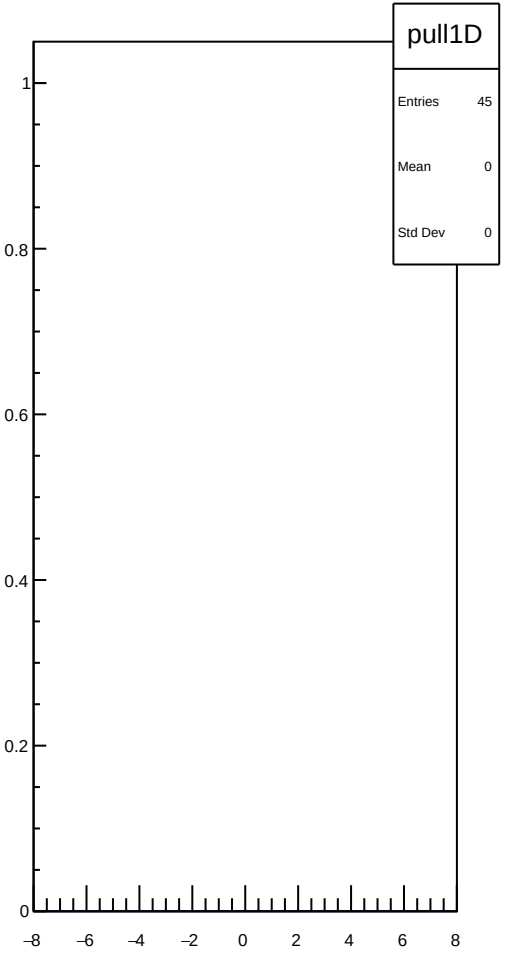
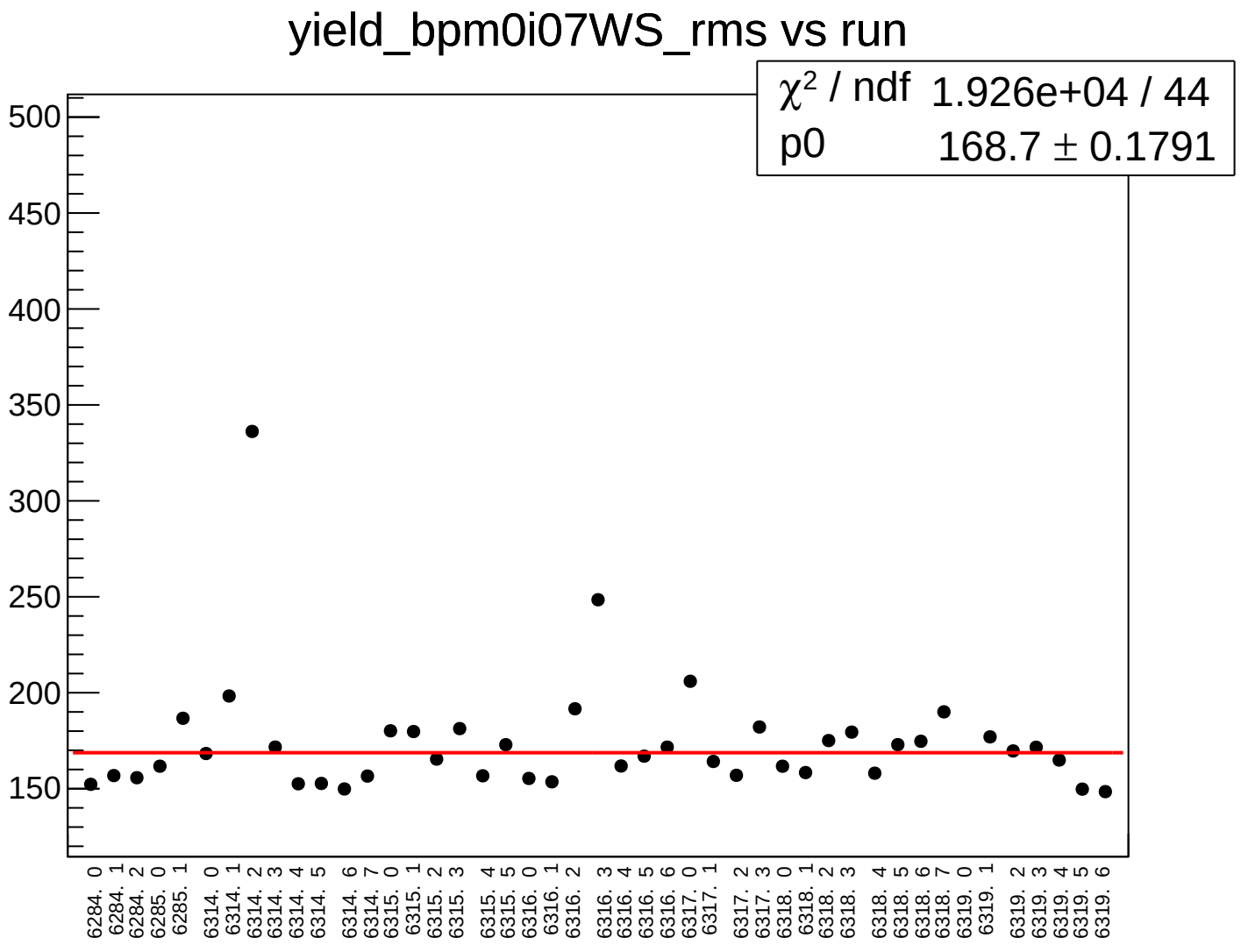
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.3
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

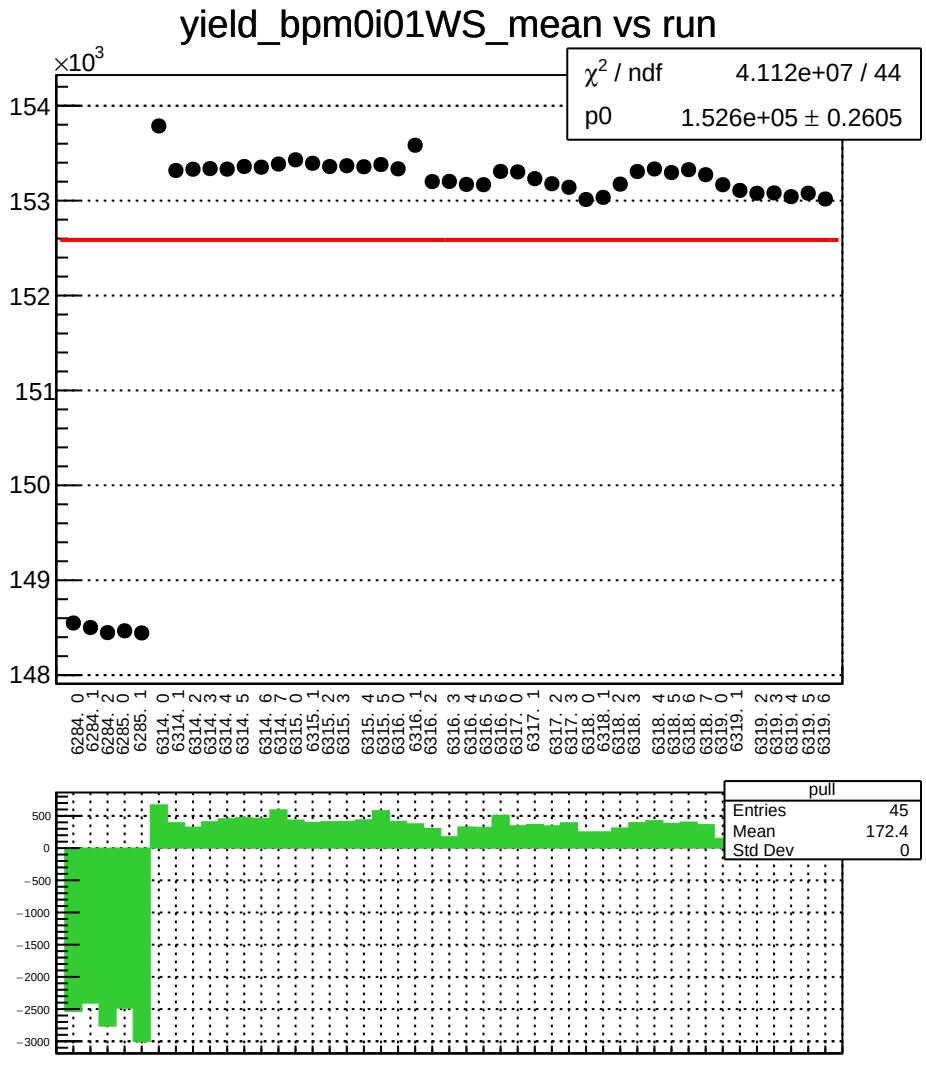

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

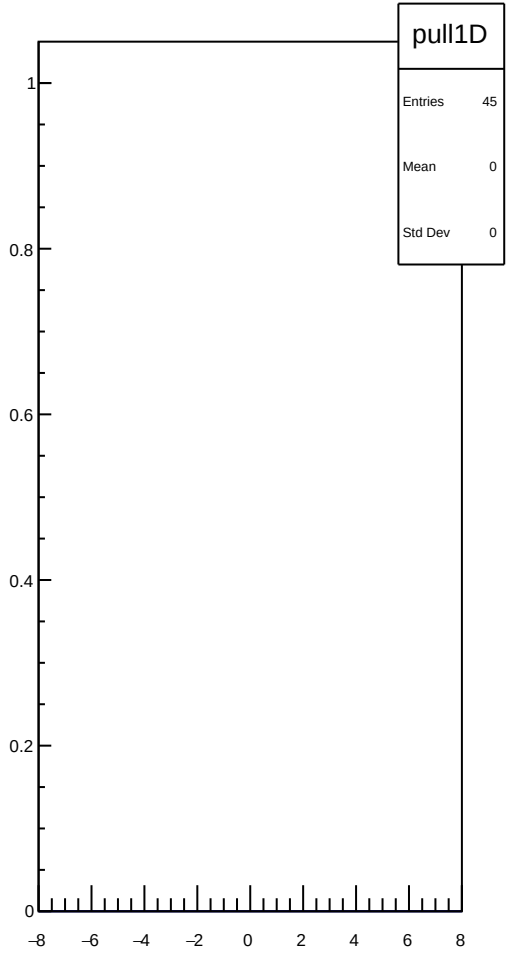

yield_bpm2i01WS_rms vs run
χ² / ndf 1.495e+04 / 44
p0 148.4 ± 0.1571
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

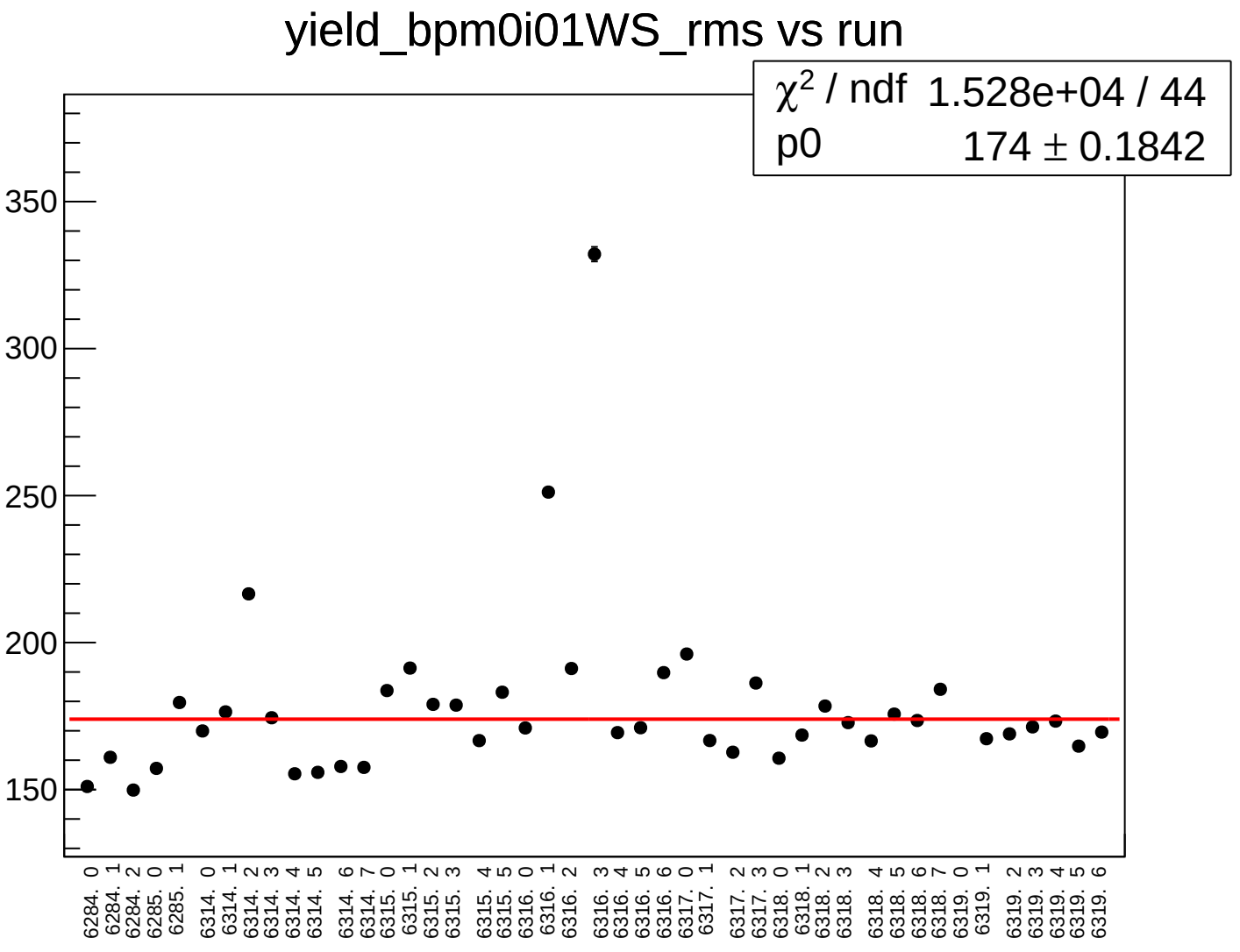

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.325e+07 / 44
p0 1.498e+05 ± 0.2533
152.5
152
151.5
151
150.5
150
149.5
149
148.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 267.9
Std Dev 0
1500
1000
500
0
−500

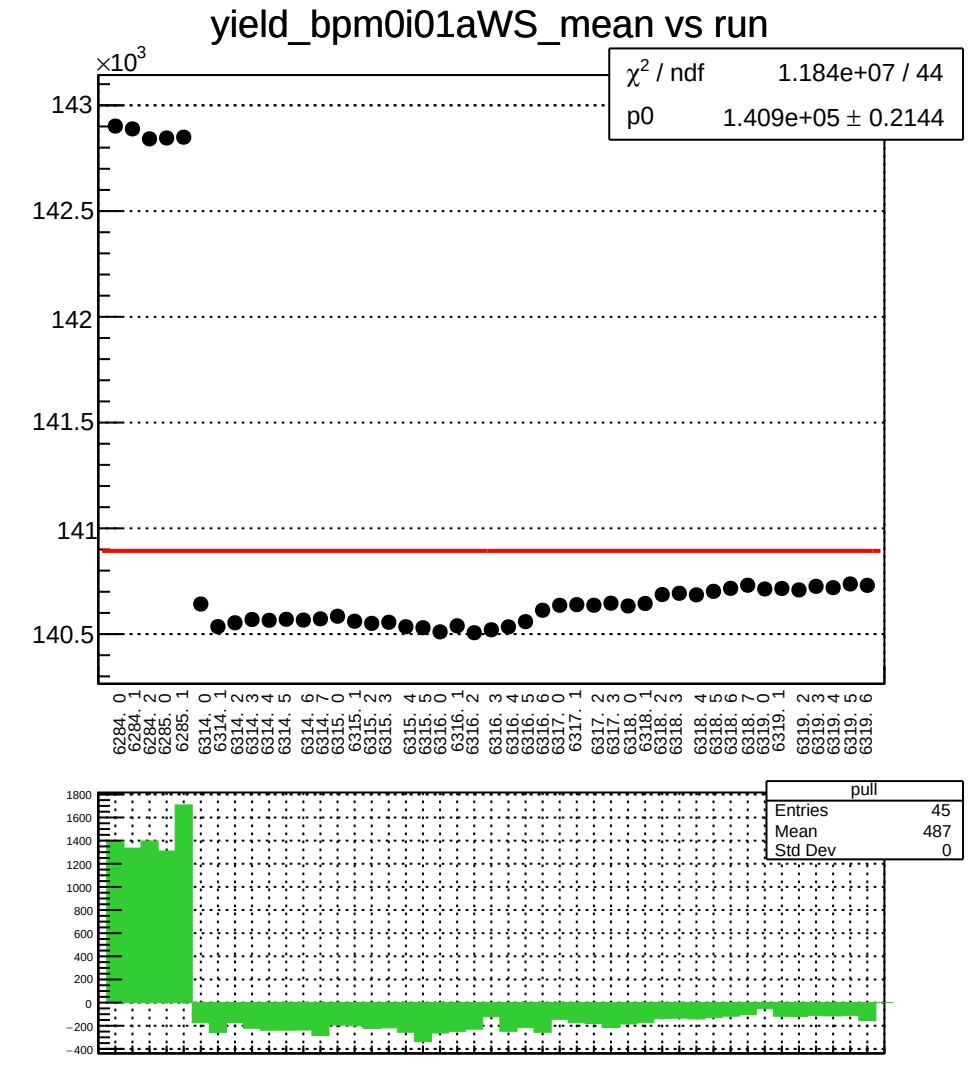

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

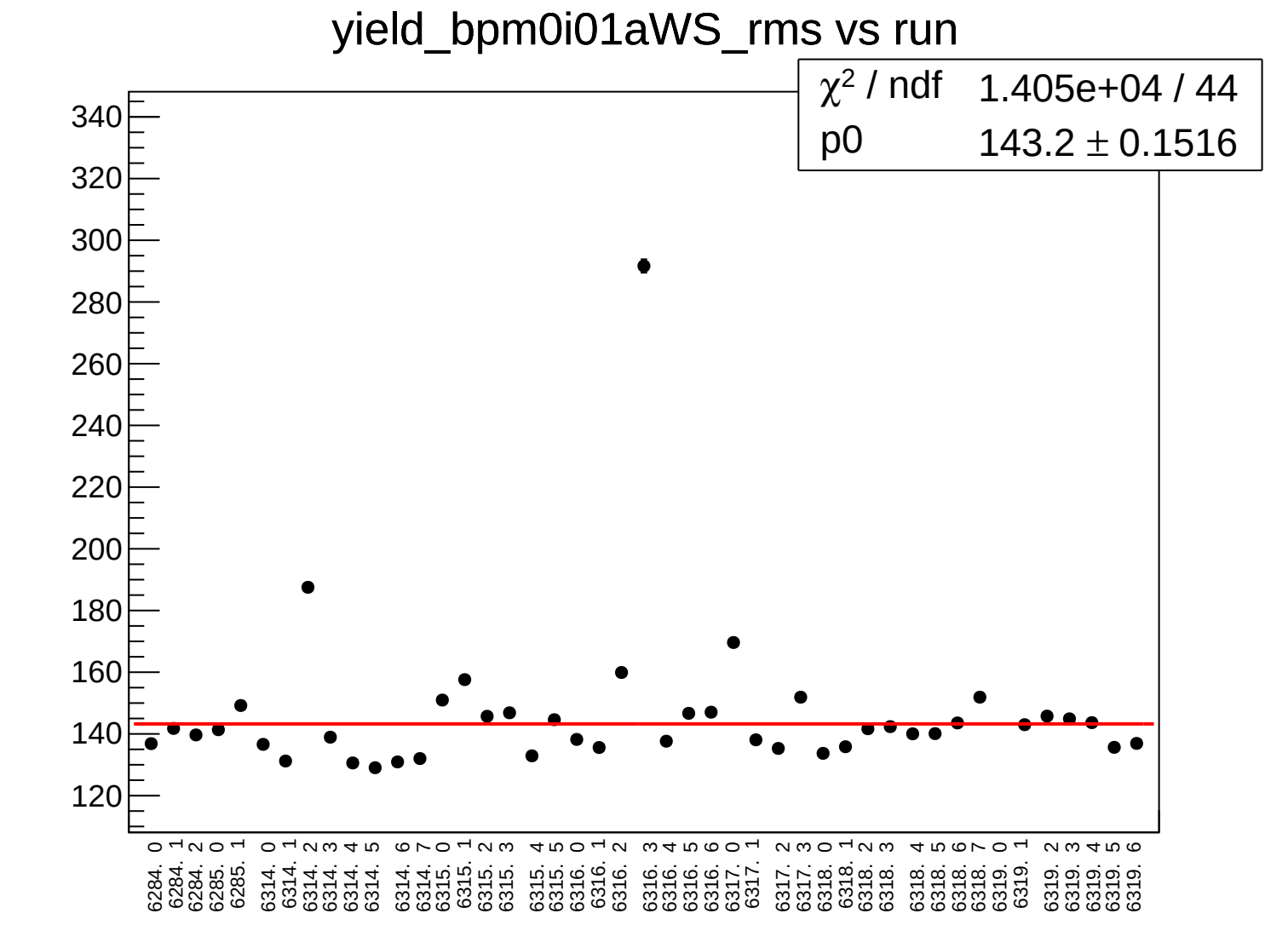

yield_bpm0i07WS_rms vs run
χ² / ndf 1.926e+04 / 44
p0 168.7 ± 0.1791
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

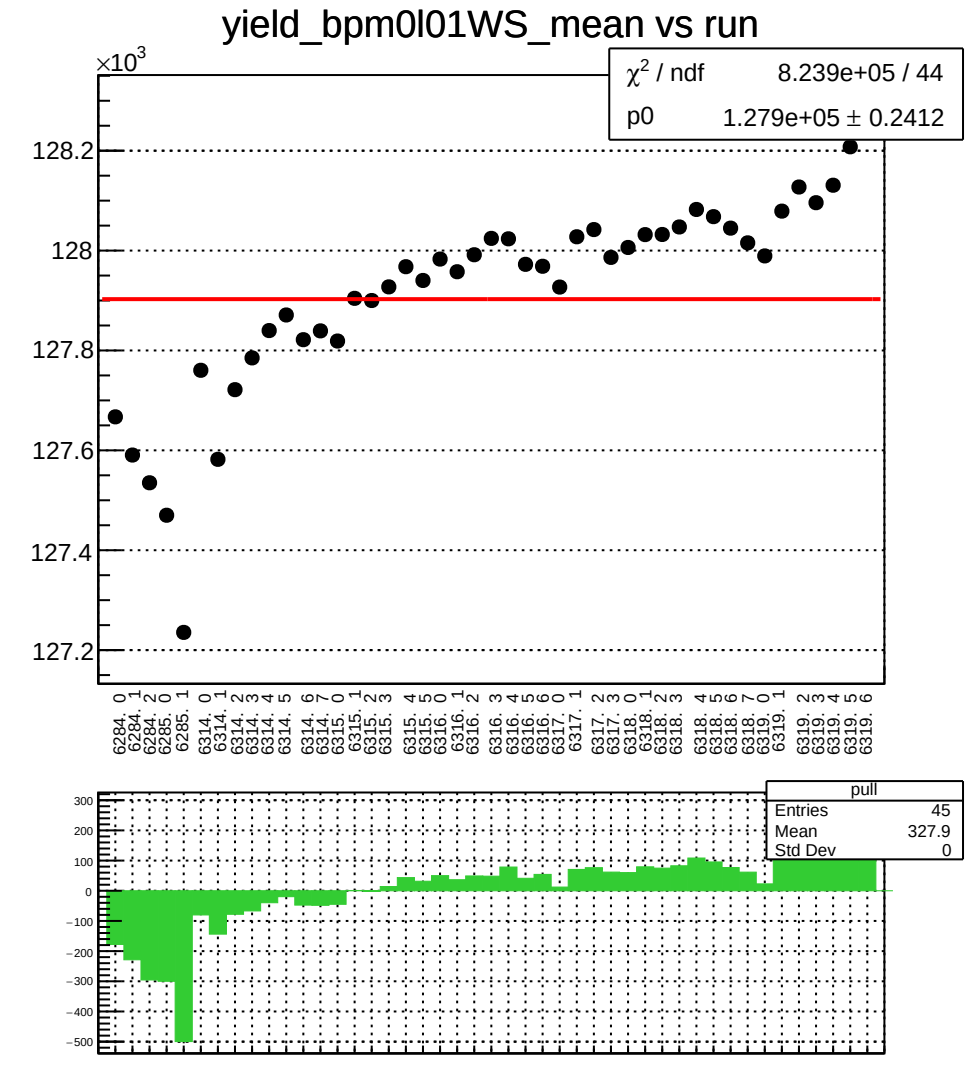

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.112e+07 / 44
p0 1.526e+05 ± 0.2605
154
153
152
151
150
149
148
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 172.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

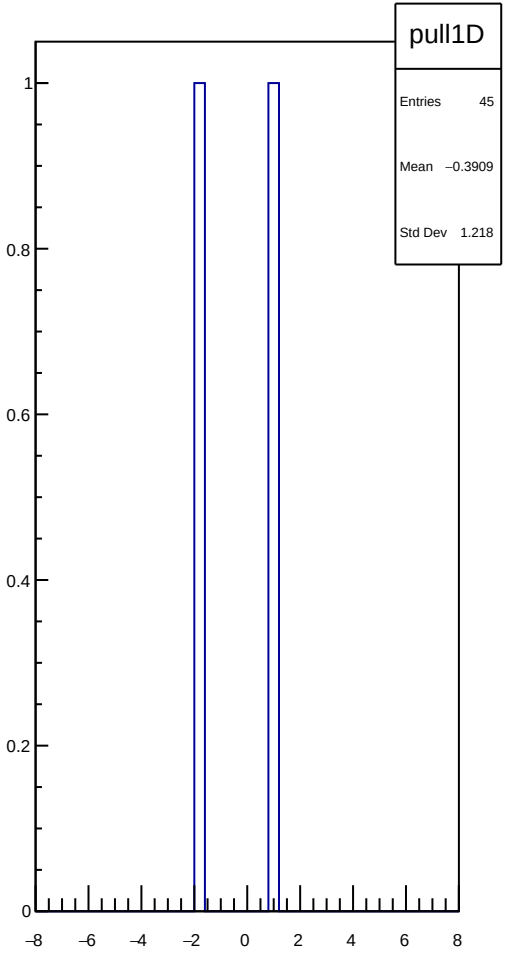

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

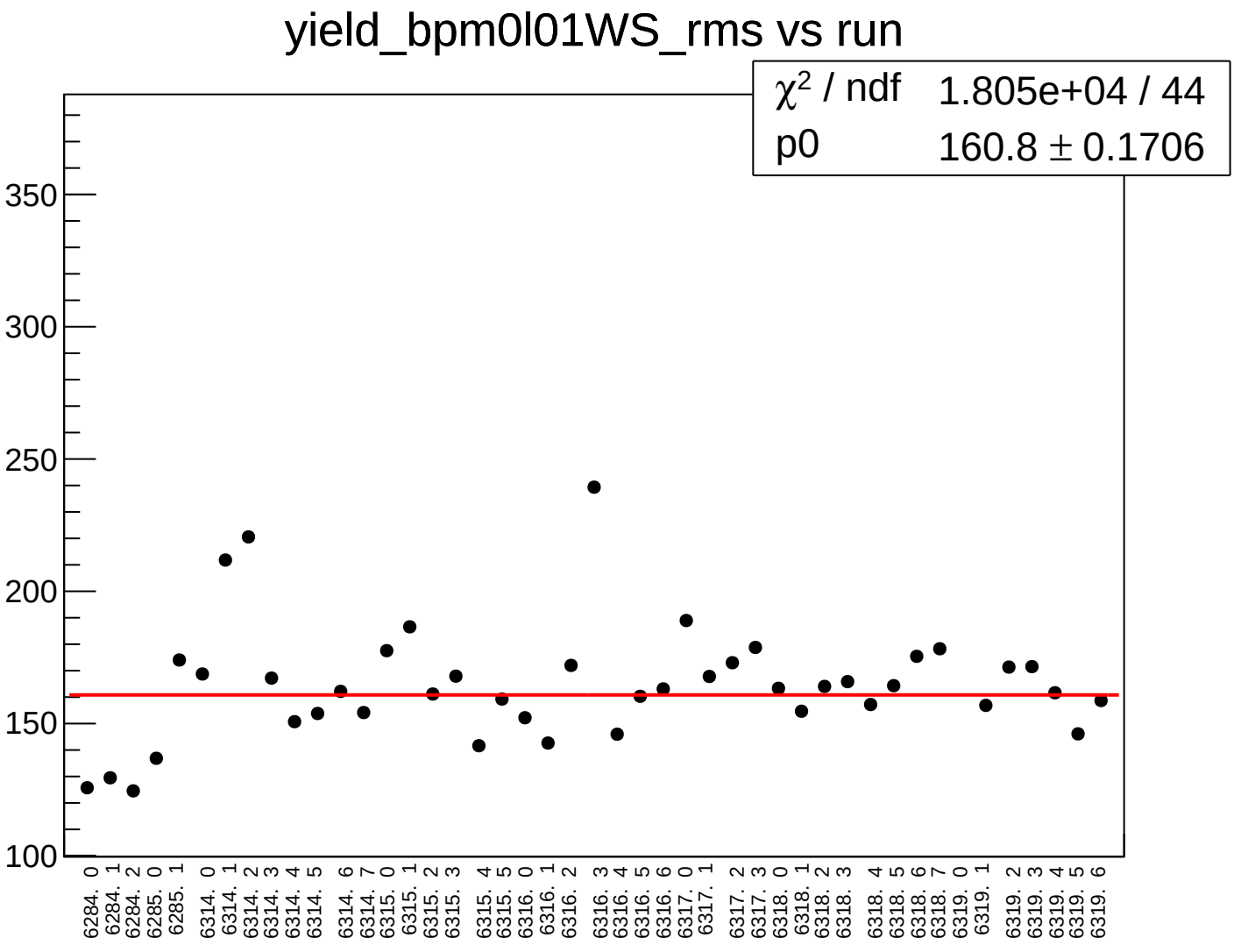

yield_bpm0i01WS_rms vs run
χ² / ndf 1.528e+04 / 44
p0 174 ± 0.1842
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.184e+07 / 44
p0 1.409e+05 ± 0.2144
143
142.5
142
141.5
141
140.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 487
Std Dev 0
1800
1600
1400
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i01aWS_rms vs run
χ² / ndf 1.405e+04 / 44
p0 143.2 ± 0.1516
340
320
300
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.239e+05 / 44
p0 1.279e+05 ± 0.2412
128.2
128
127.8
127.6
127.4
127.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 327.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500


pull1D
Entries 45
Mean −0.3909
Std Dev 1.218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01WS_rms vs run
χ² / ndf 1.805e+04 / 44
p0 160.8 ± 0.1706
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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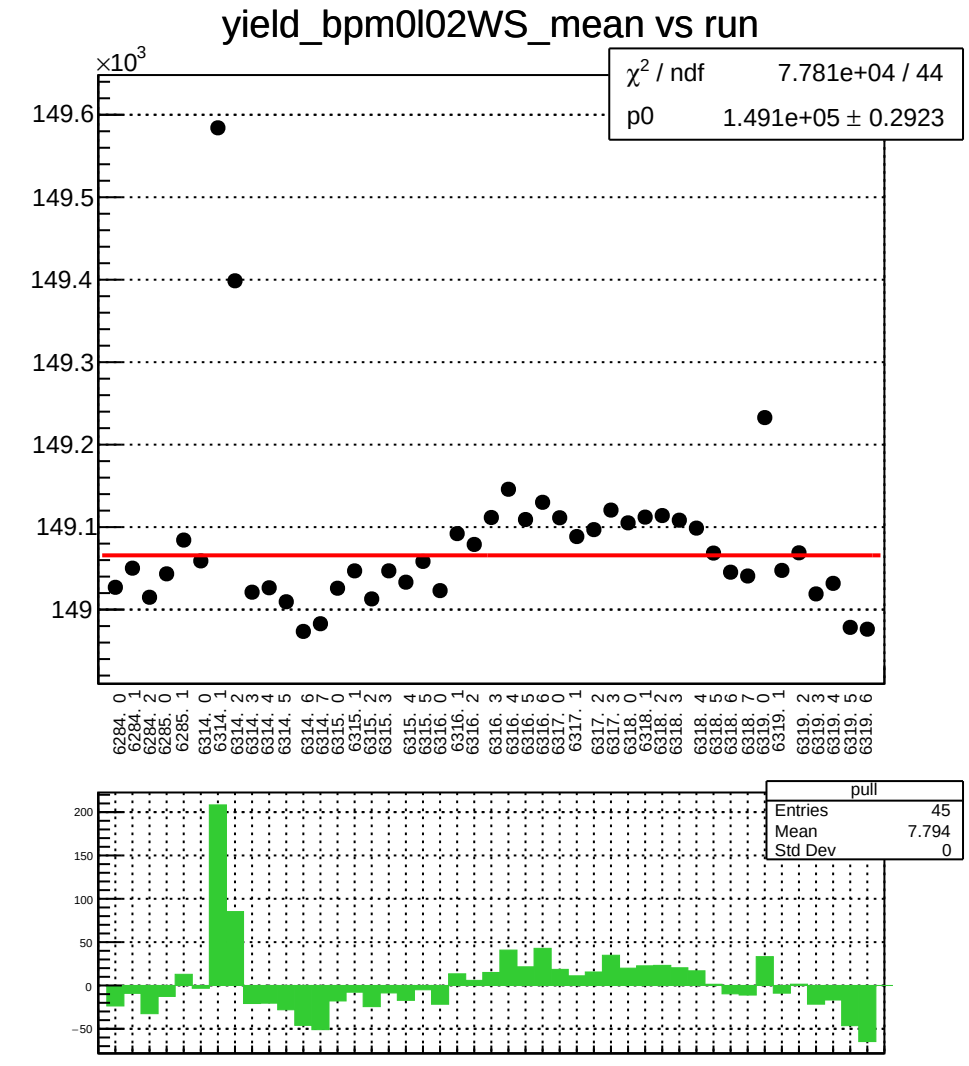
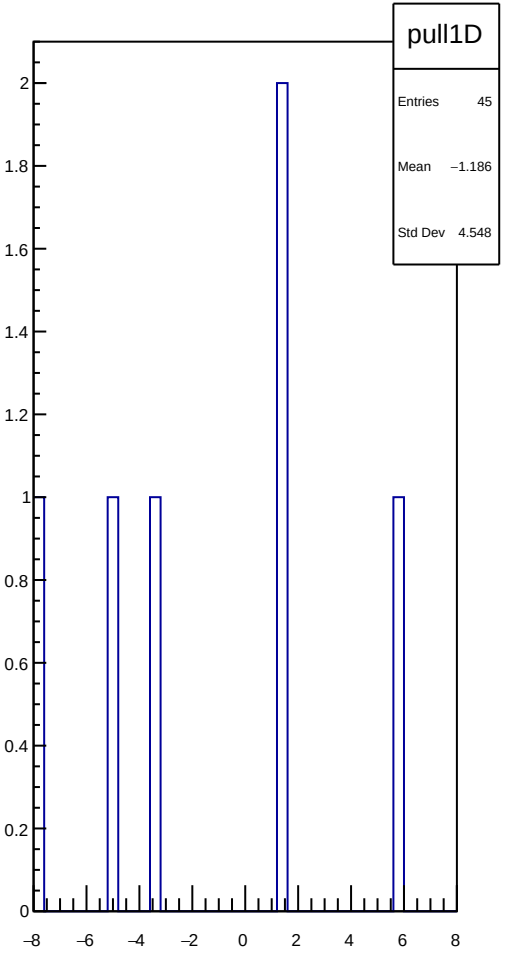
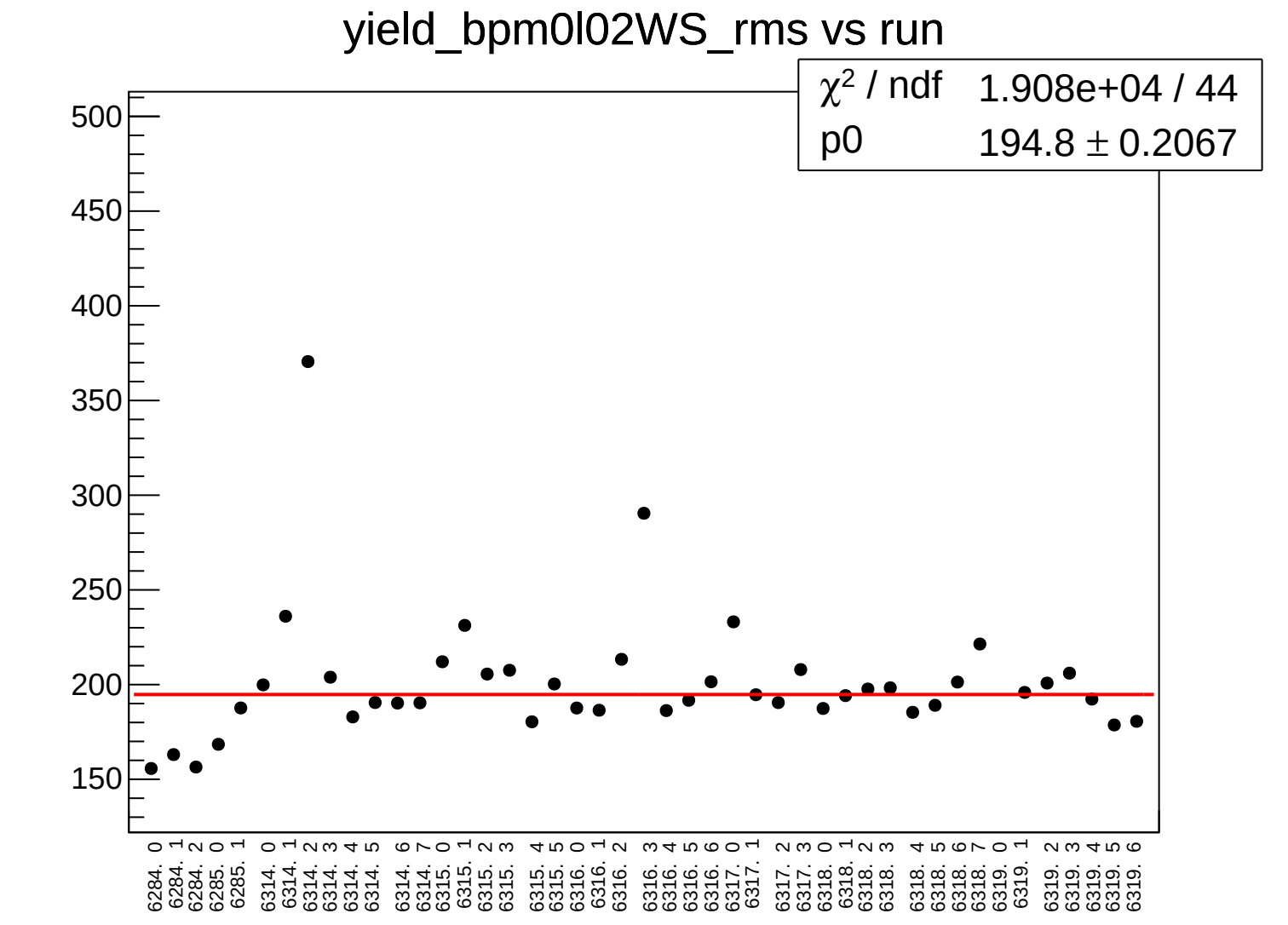
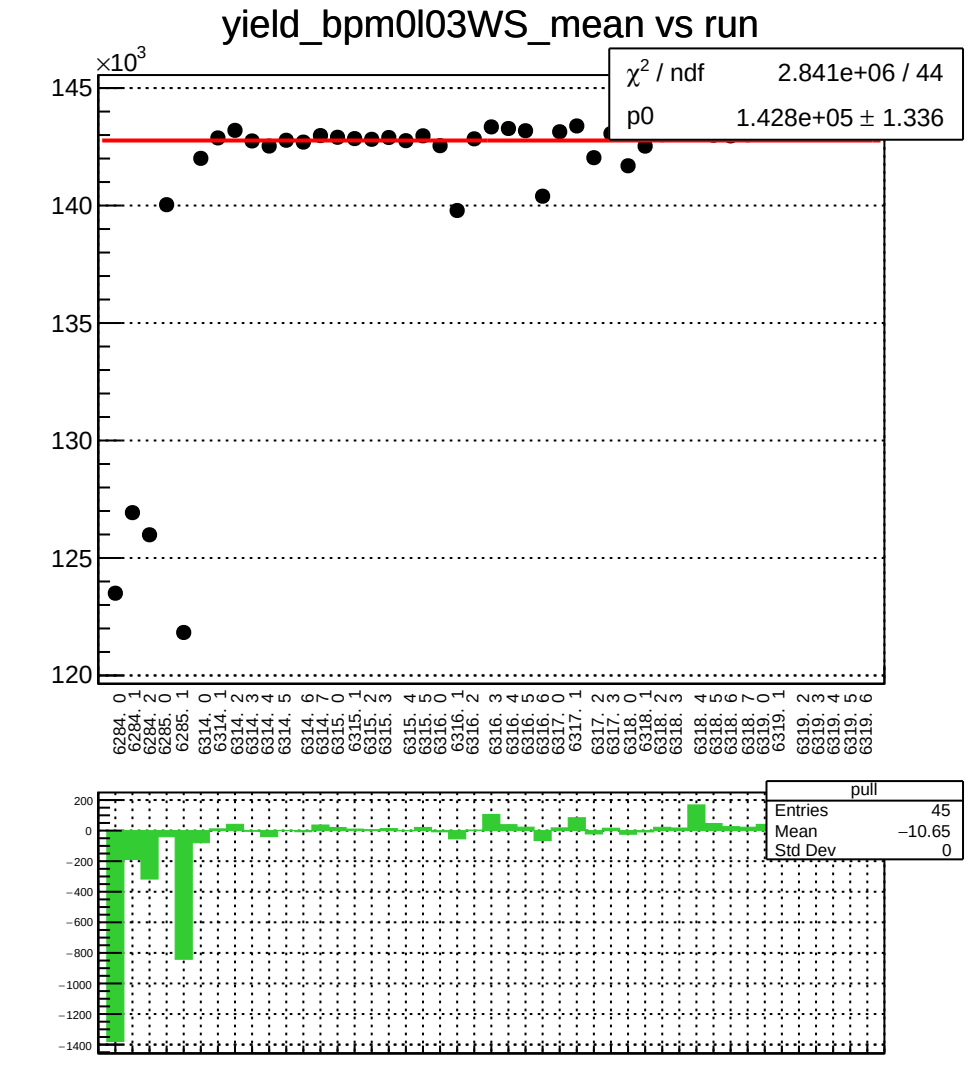
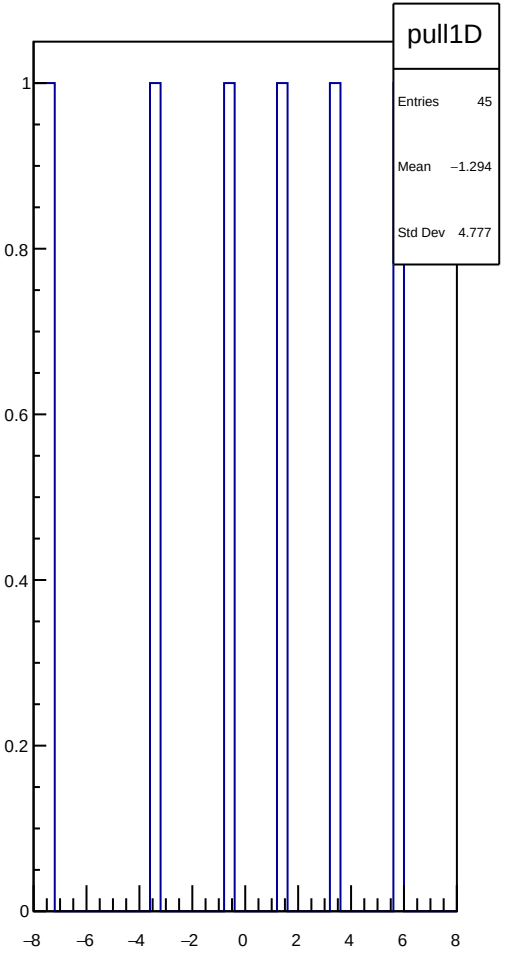
6319. 5
6319. 6

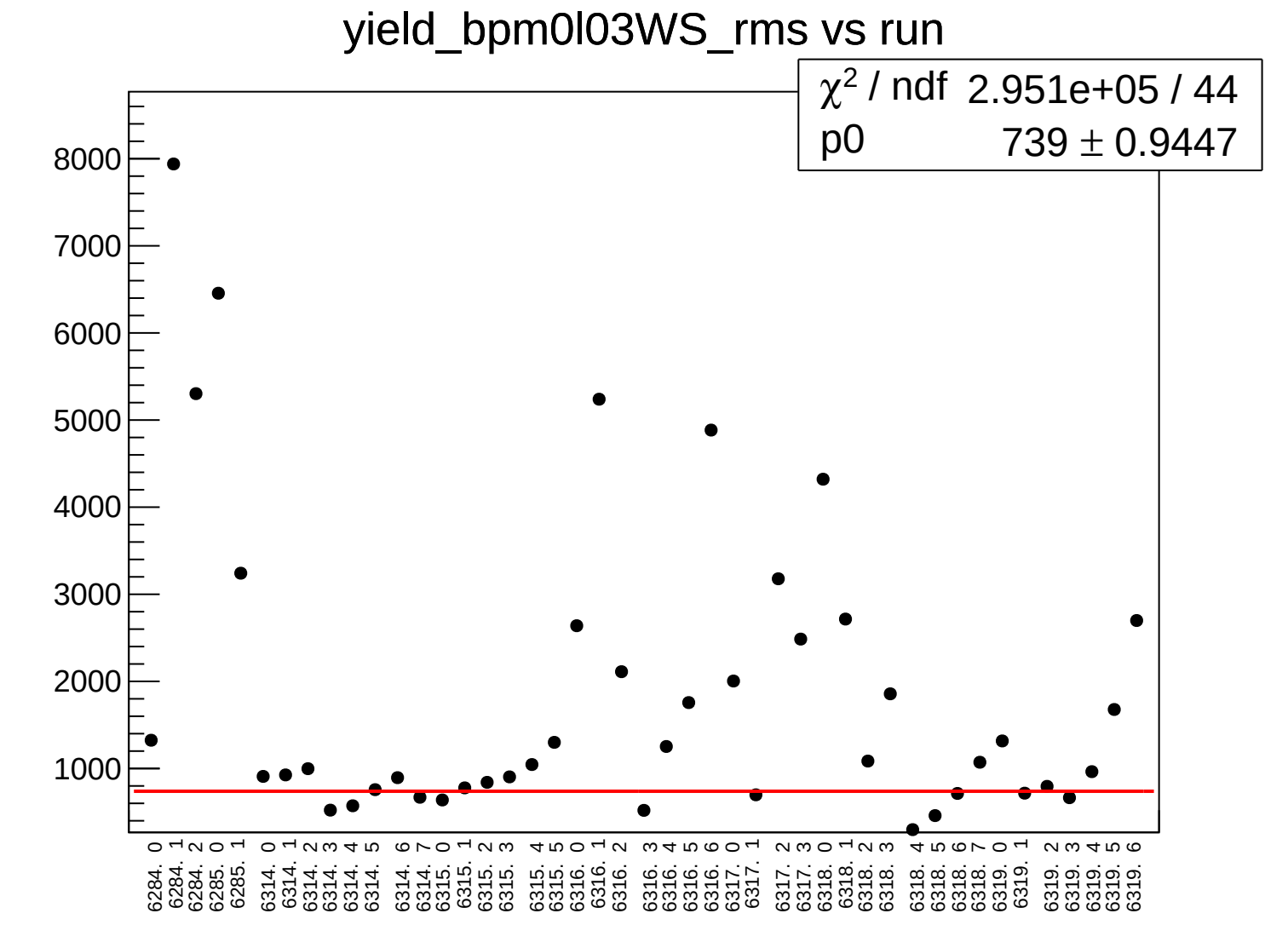

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.781e+04 / 44
p0 1.491e+05 ± 0.2923
149.6
149.5
149.4
149.3
149.2
149.1
149
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.794
Std Dev 0
200
150
100
50
0
−50

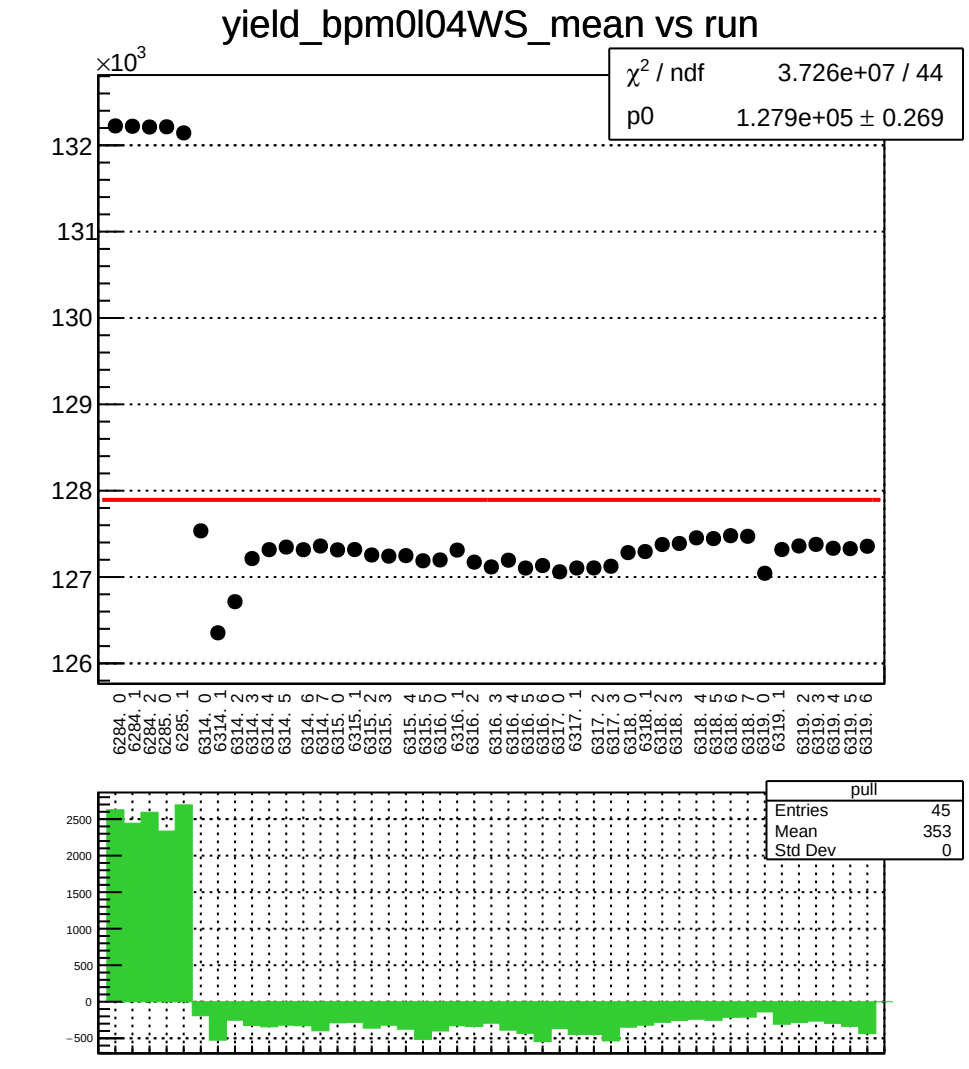

pull1D
Entries 45
Mean −1.186
Std Dev 4.548
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

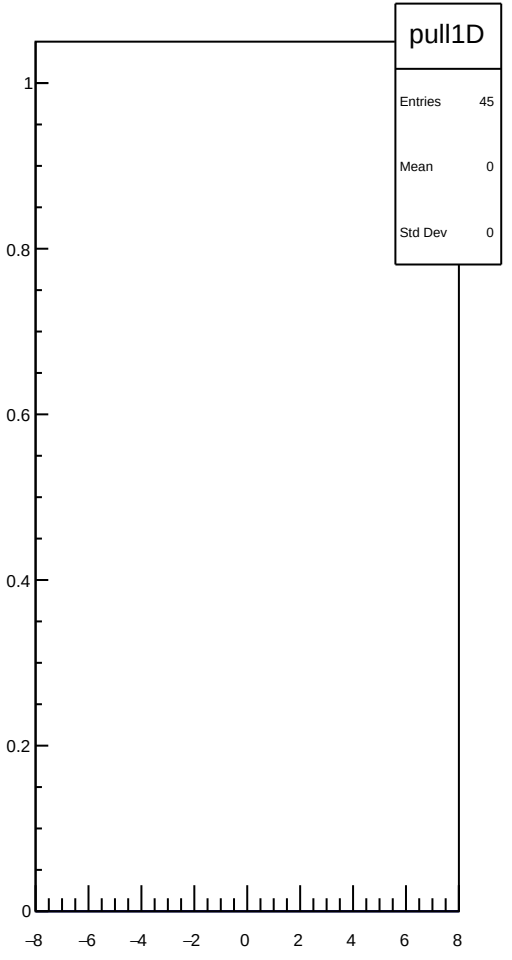

yield_bpm0l02WS_rms vs run
χ² / ndf 1.908e+04 / 44
p0 194.8 ± 0.2067
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

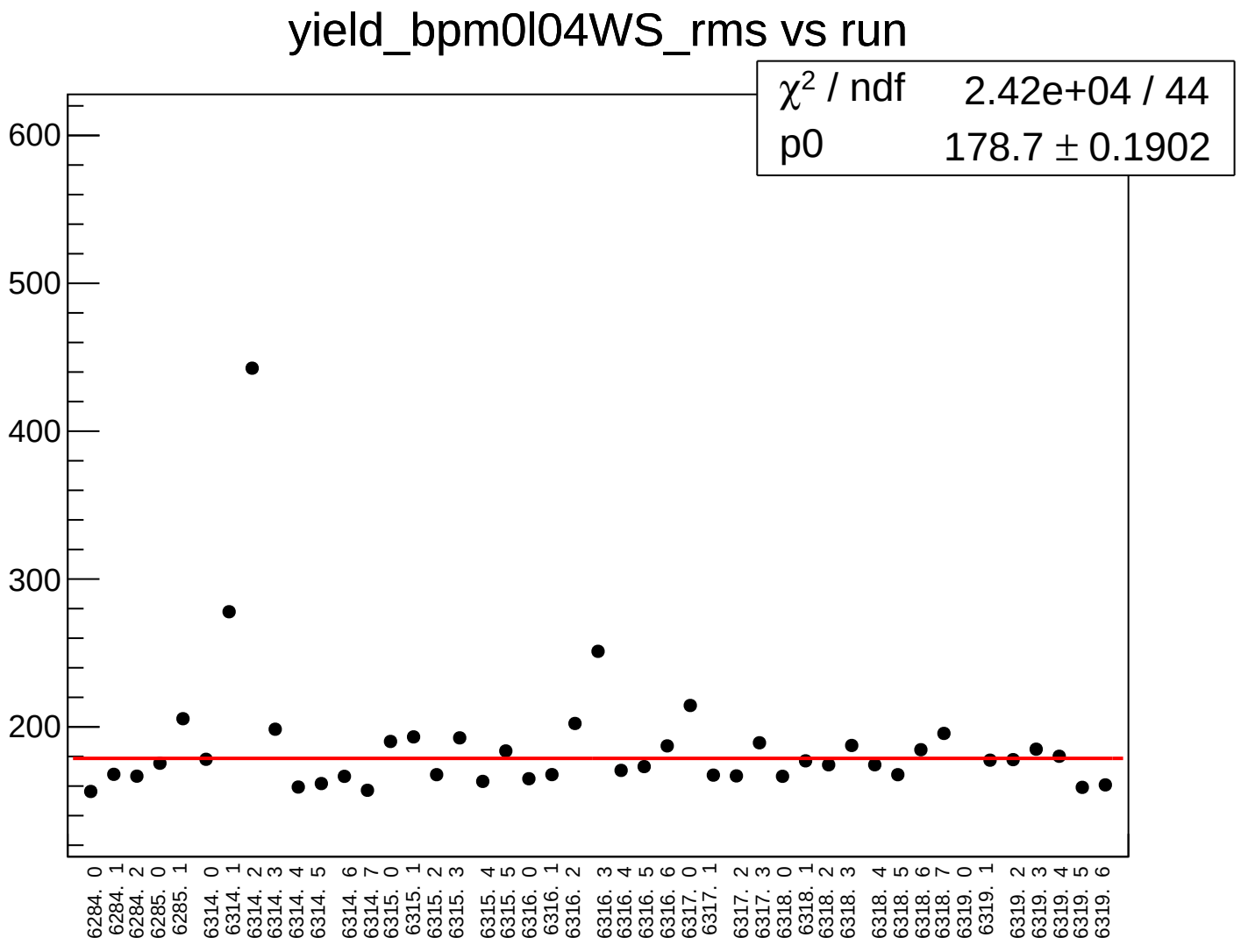

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.841e+06 / 44
p0 1.428e+05 ± 1.336
145
140
135
130
125
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −10.65
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

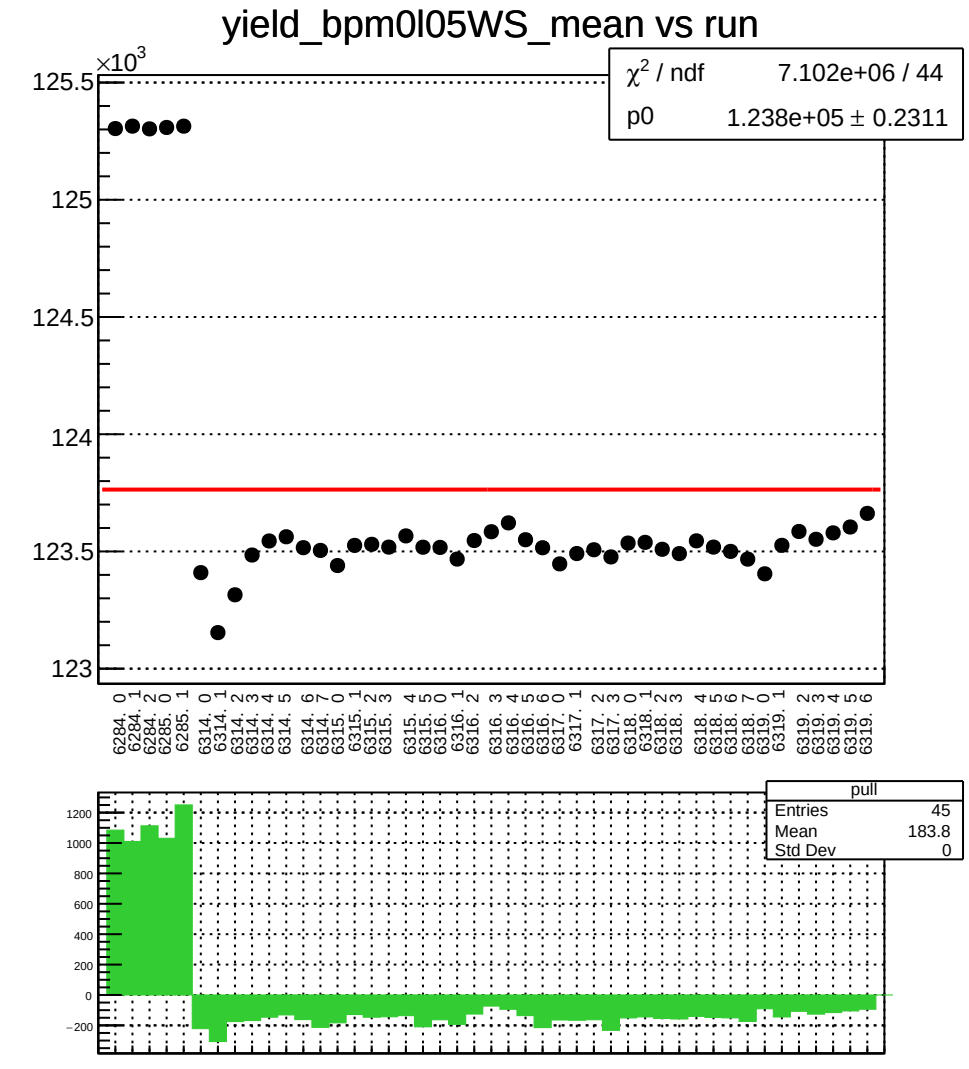

pull1D
Entries 45
Mean −1.294
Std Dev 4.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

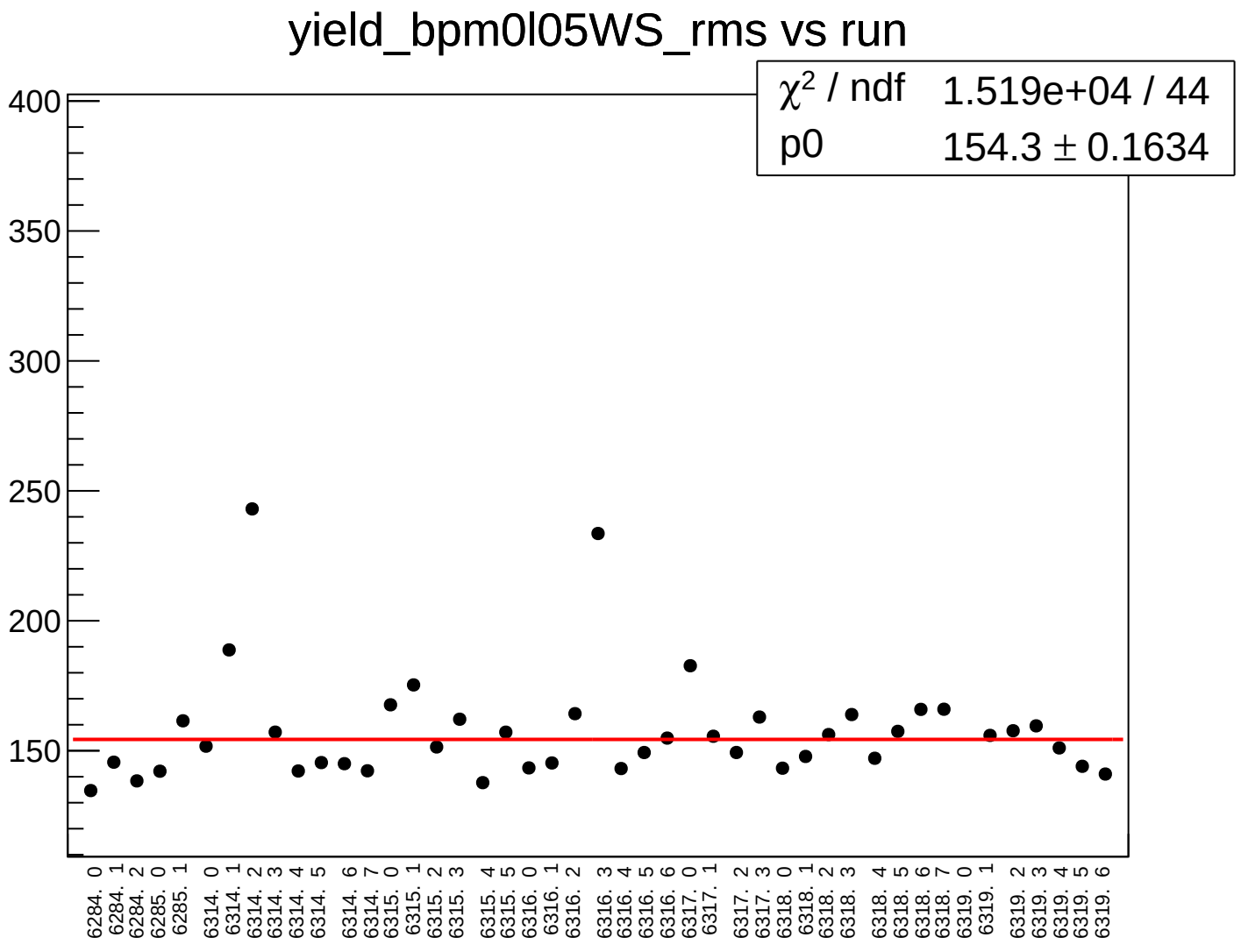

yield_bpm0l03WS_rms vs run
χ² / ndf 2.951e+05 / 44
p0 739 ± 0.9447
8000
7000
6000
5000
4000
3000
2000
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

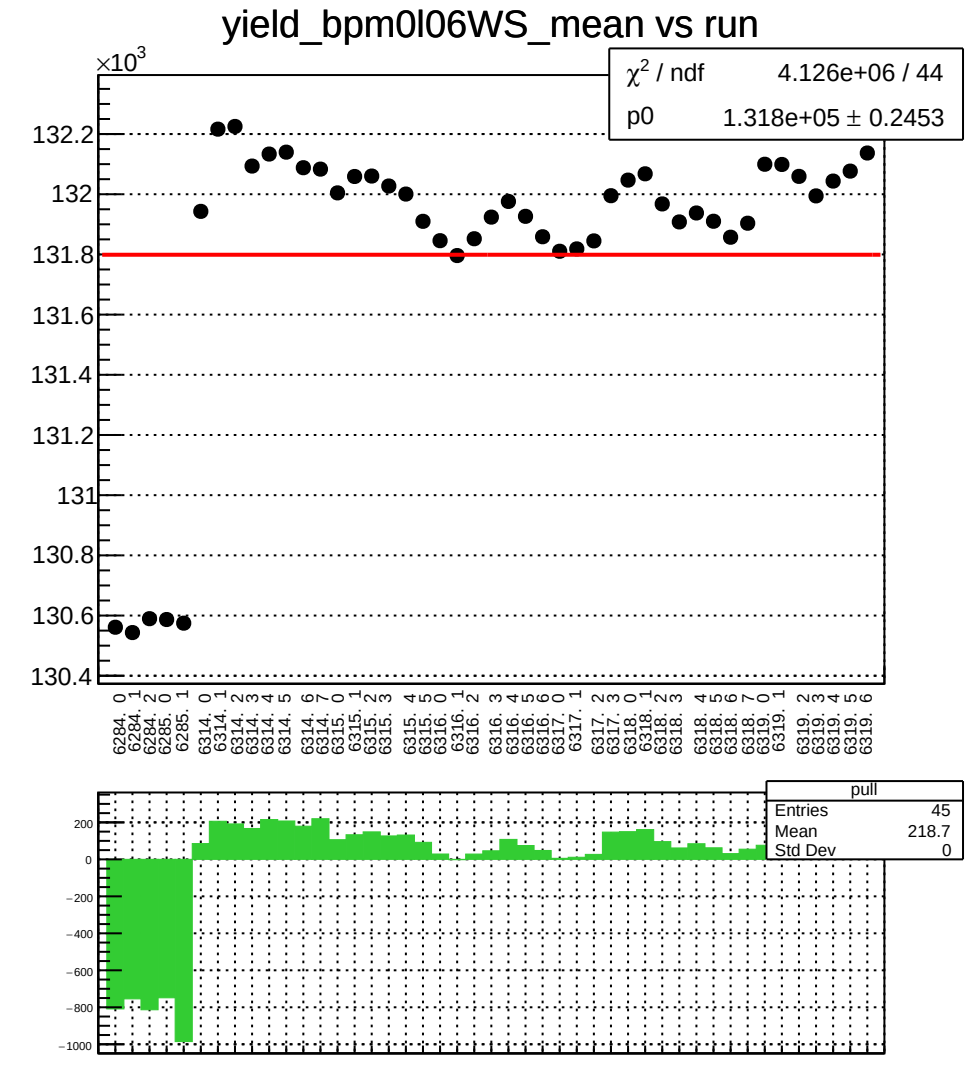

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.726e+07 / 44
p0 1.279e+05 ± 0.269
132
131
130
129
128
127
126
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 353
Std Dev 0
2500
2000
1500
1000
500
0
−500

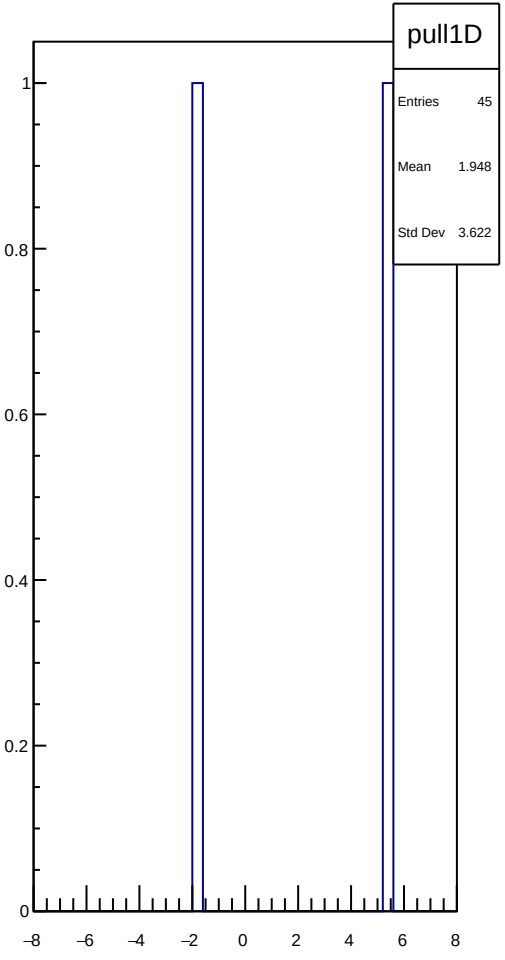

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

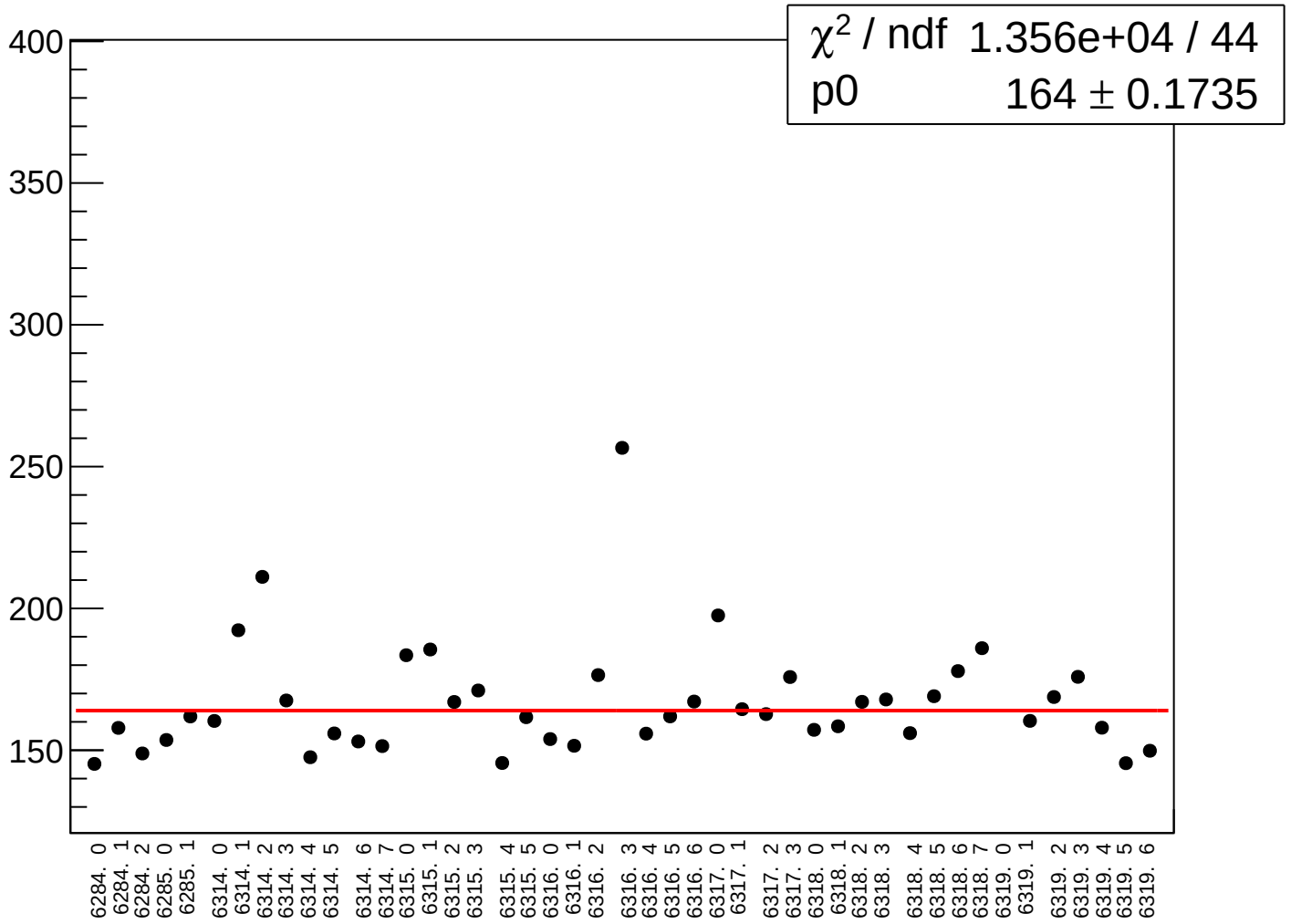

yield_bpm0l04WS_rms vs run
χ² / ndf 2.42e+04 / 44
p0 178.7 ± 0.1902
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

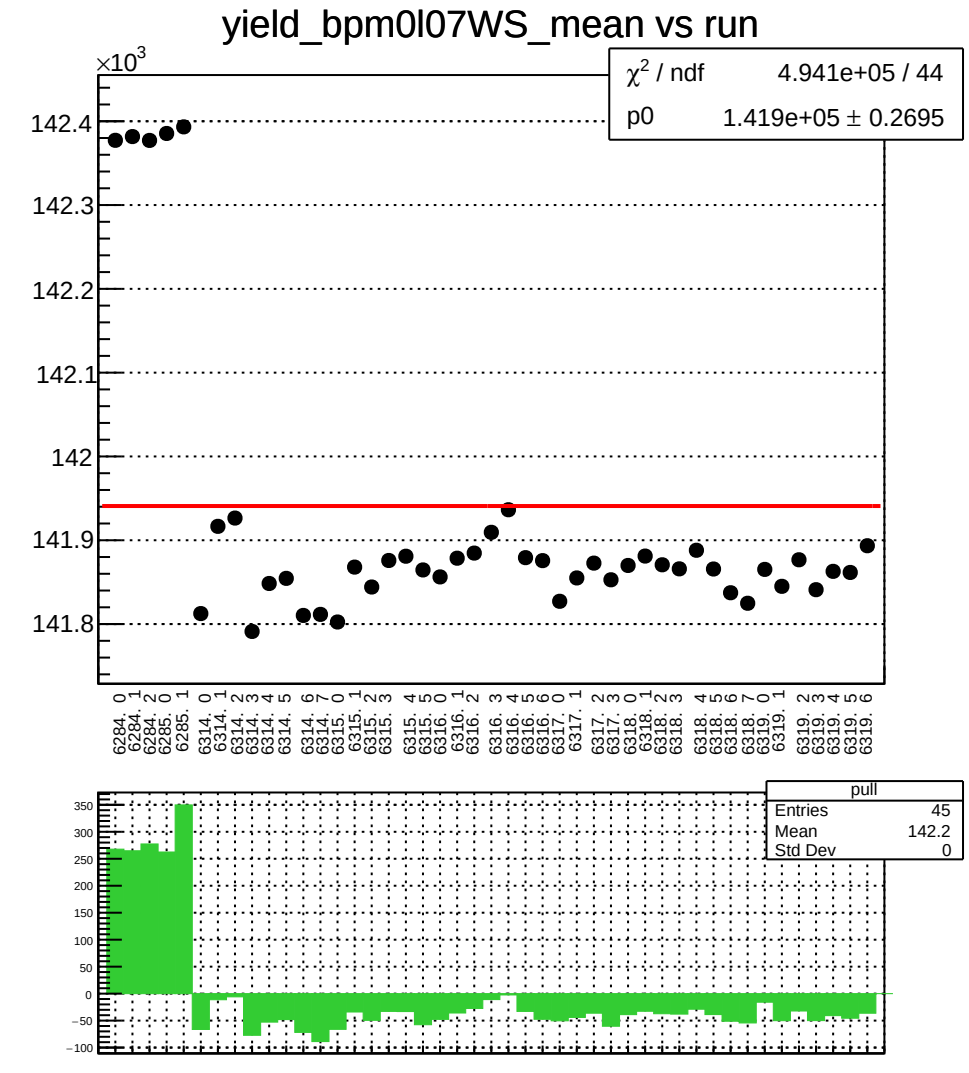

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.102e+06 / 44
p0 1.238e+05 ± 0.2311
125.5
125
124.5
124
123.5
123
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 183.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

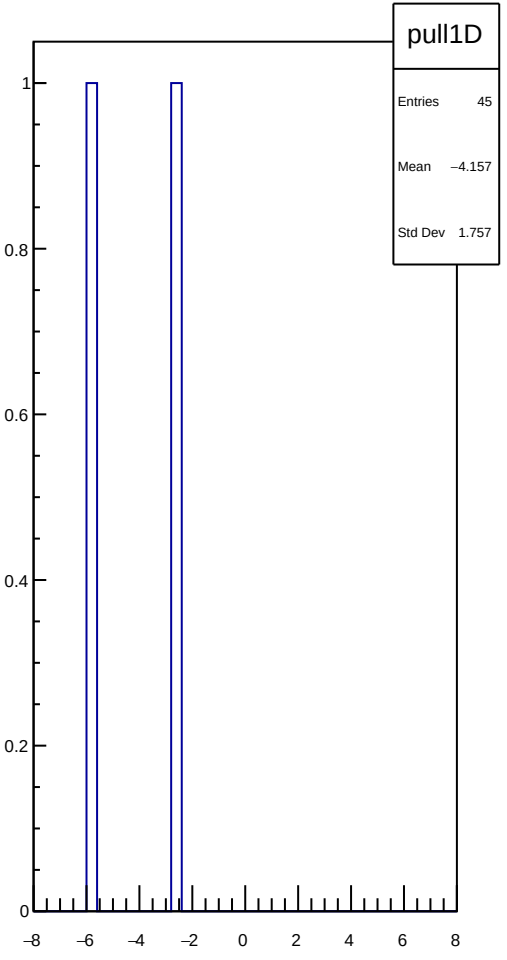

yield_bpm0l05WS_rms vs run
χ² / ndf 1.519e+04 / 44
p0 154.3 ± 0.1634
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

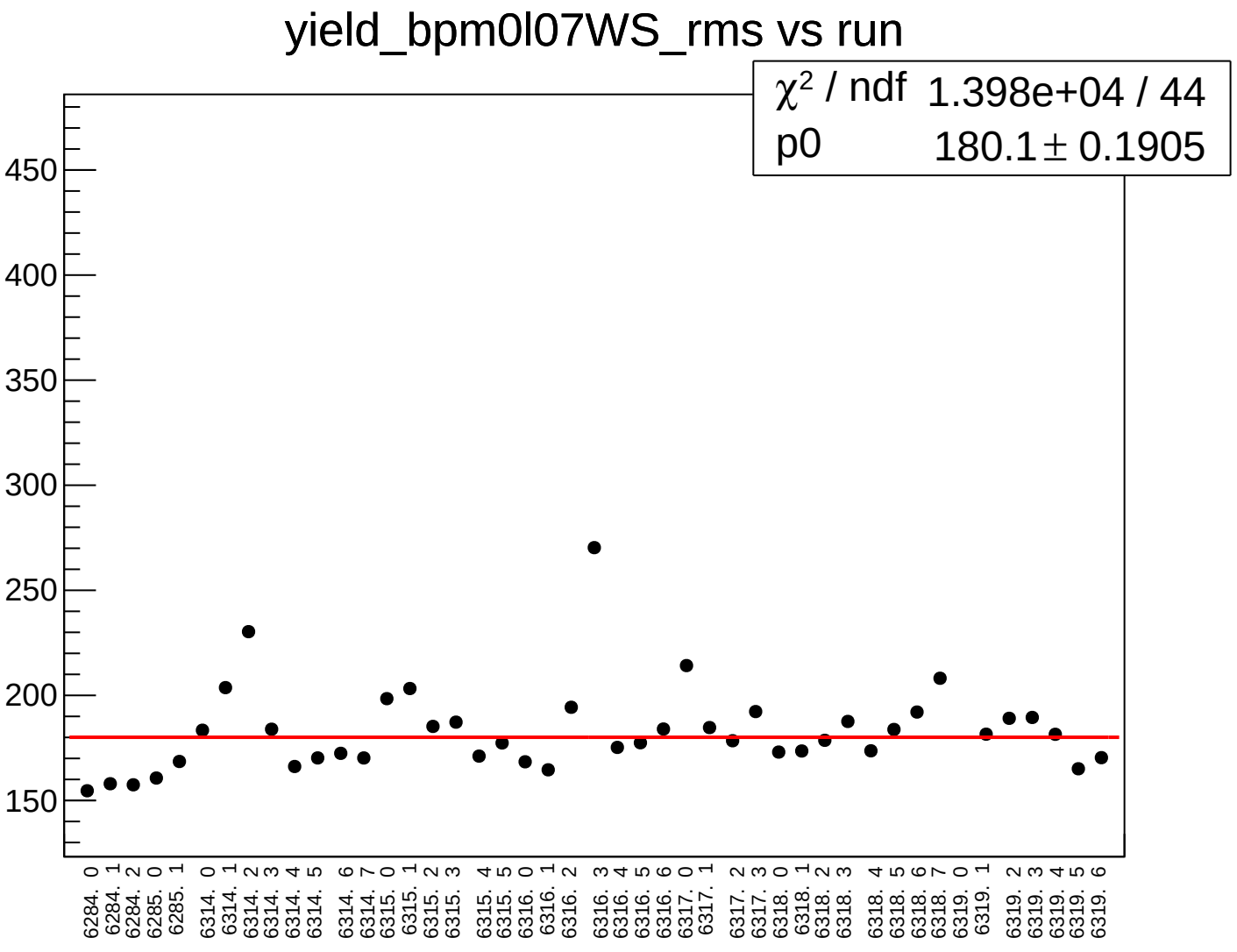

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 4.126e+06 / 44
p0 1.318e+05 ± 0.2453
132.2
132
131.8
131.6
131.4
131.2
131
130.8
130.6
130.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 218.7
Std Dev 0
200
0
−200
−400
−600
−800
−1000

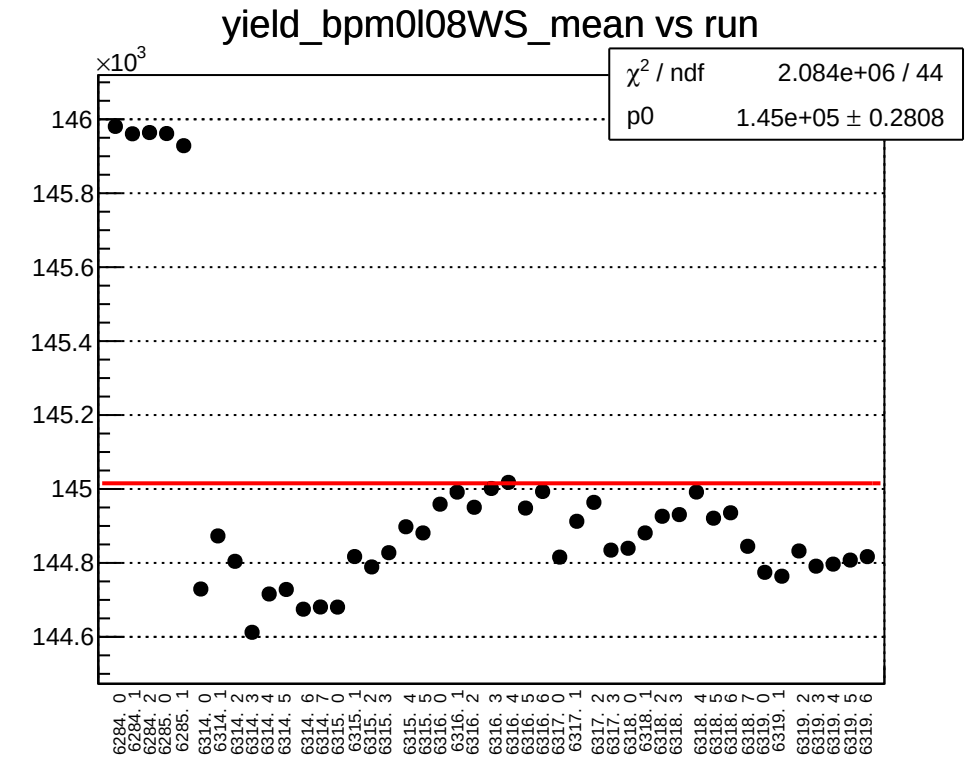

pull1D
Entries 45
Mean 1.948
Std Dev 3.622
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

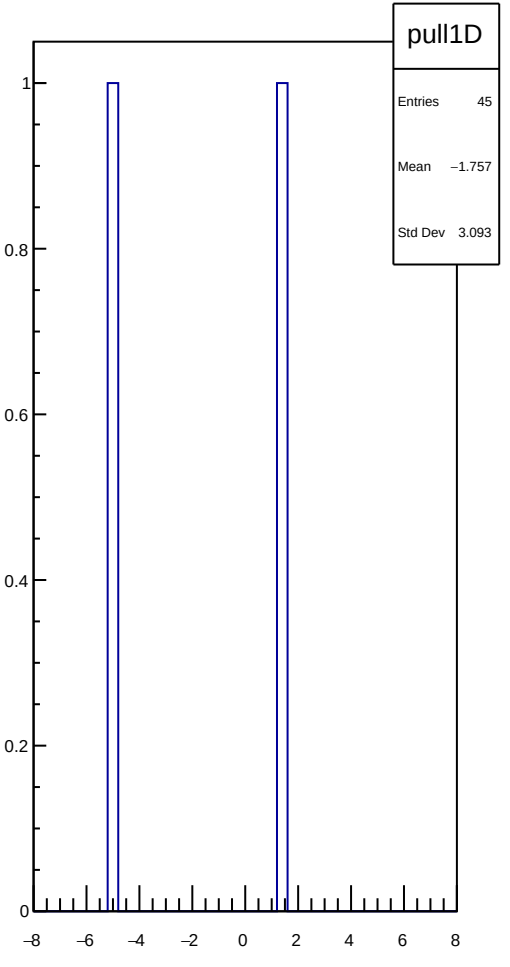

yield_bpm0l06WS_rms vs run
χ² / ndf 1.356e+04 / 44
p0 164 ± 0.1735
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

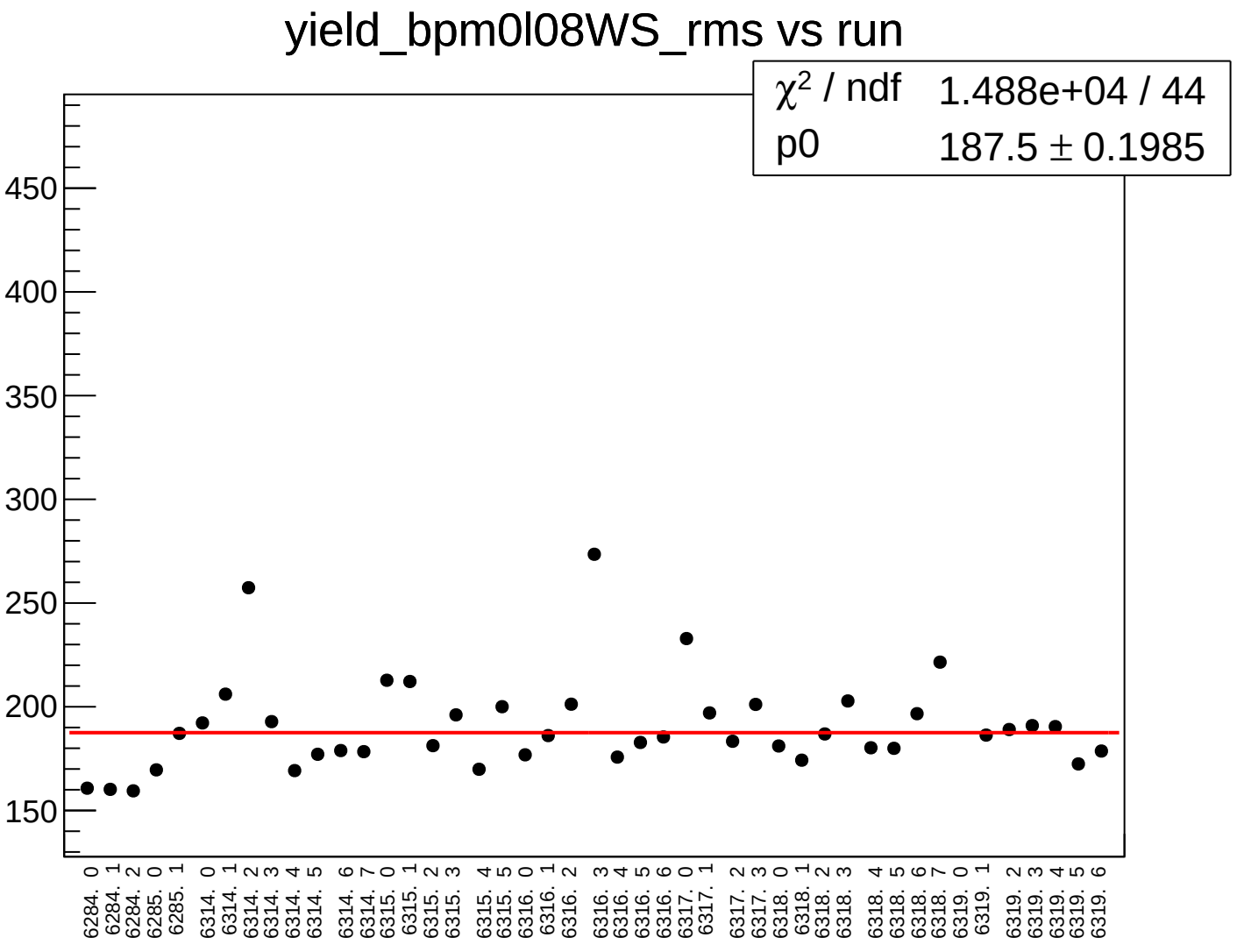

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 4.941e+05 / 44
p0 1.419e+05 ± 0.2695
142.4
142.3
142.2
142.1
142
141.9
141.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 142.2
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

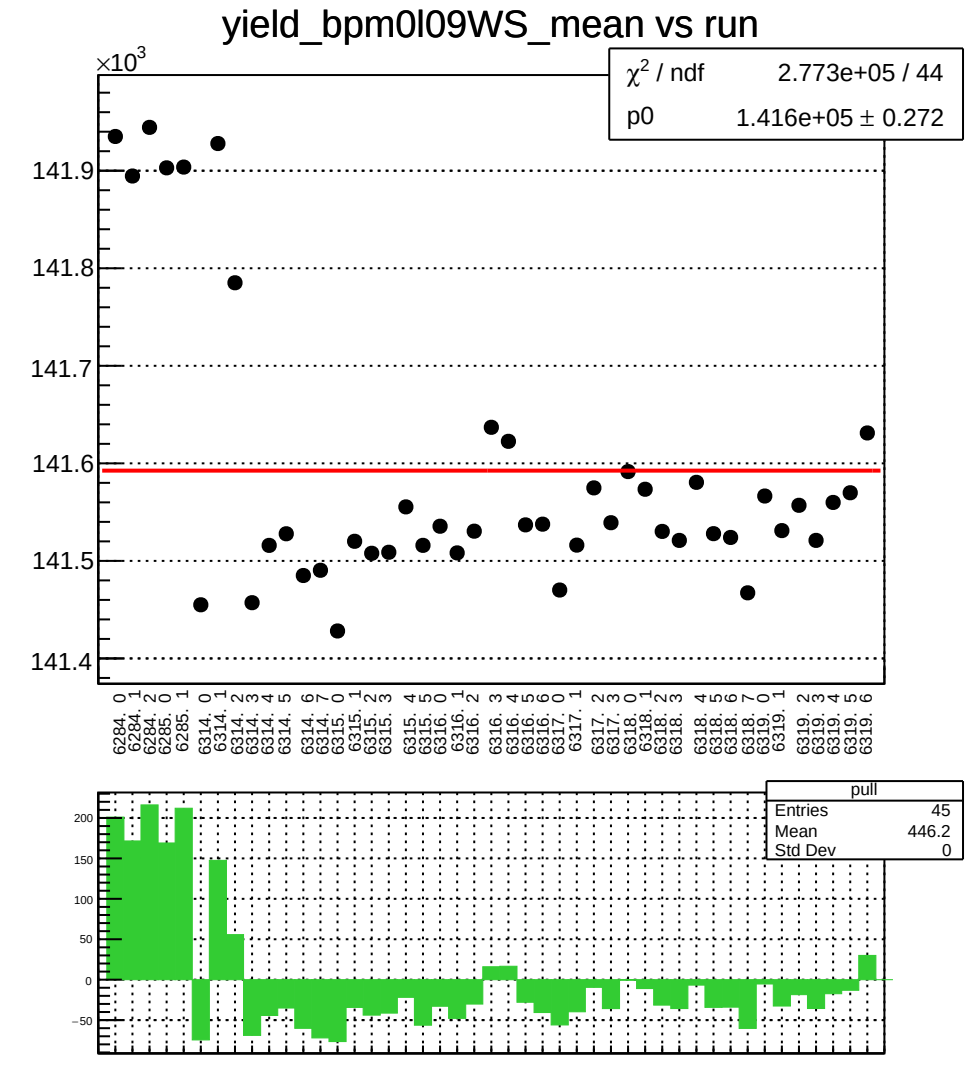

pull1D
Entries 45
Mean −4.157
Std Dev 1.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

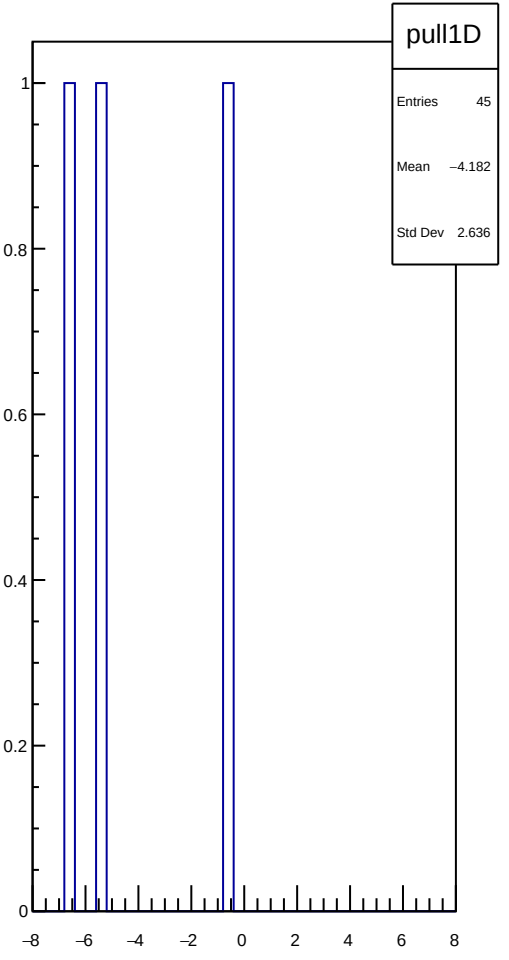

yield_bpm0l07WS_rms vs run
χ² / ndf 1.398e+04 / 44
p0 180.1 ± 0.1905
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

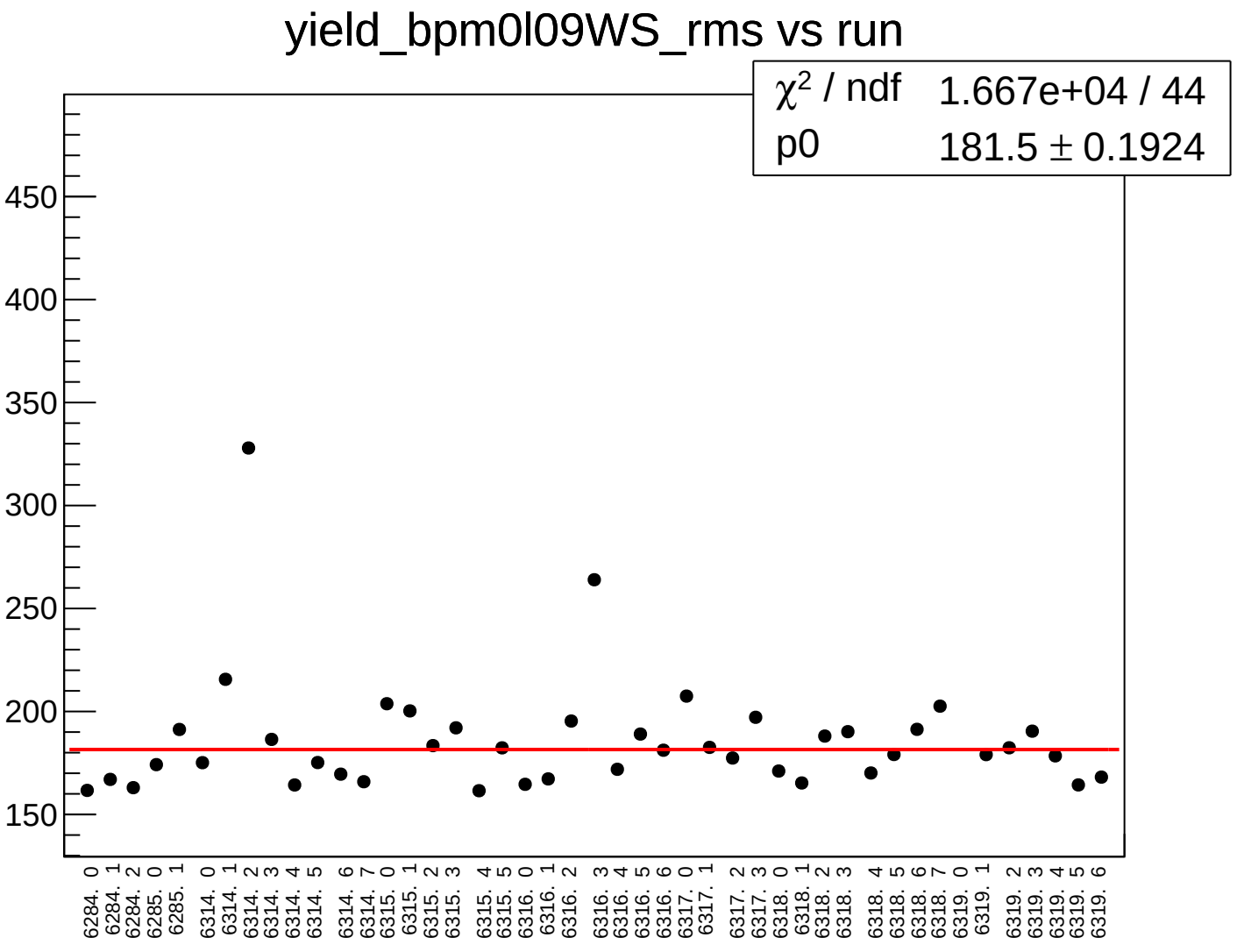

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.084e+06 / 44
p0 1.45e+05 ± 0.2808
146
145.8
145.6
145.4
145.2
145
144.8
144.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 141.4
Std Dev 0
600
500
400
300
200
100
0
−100
−200

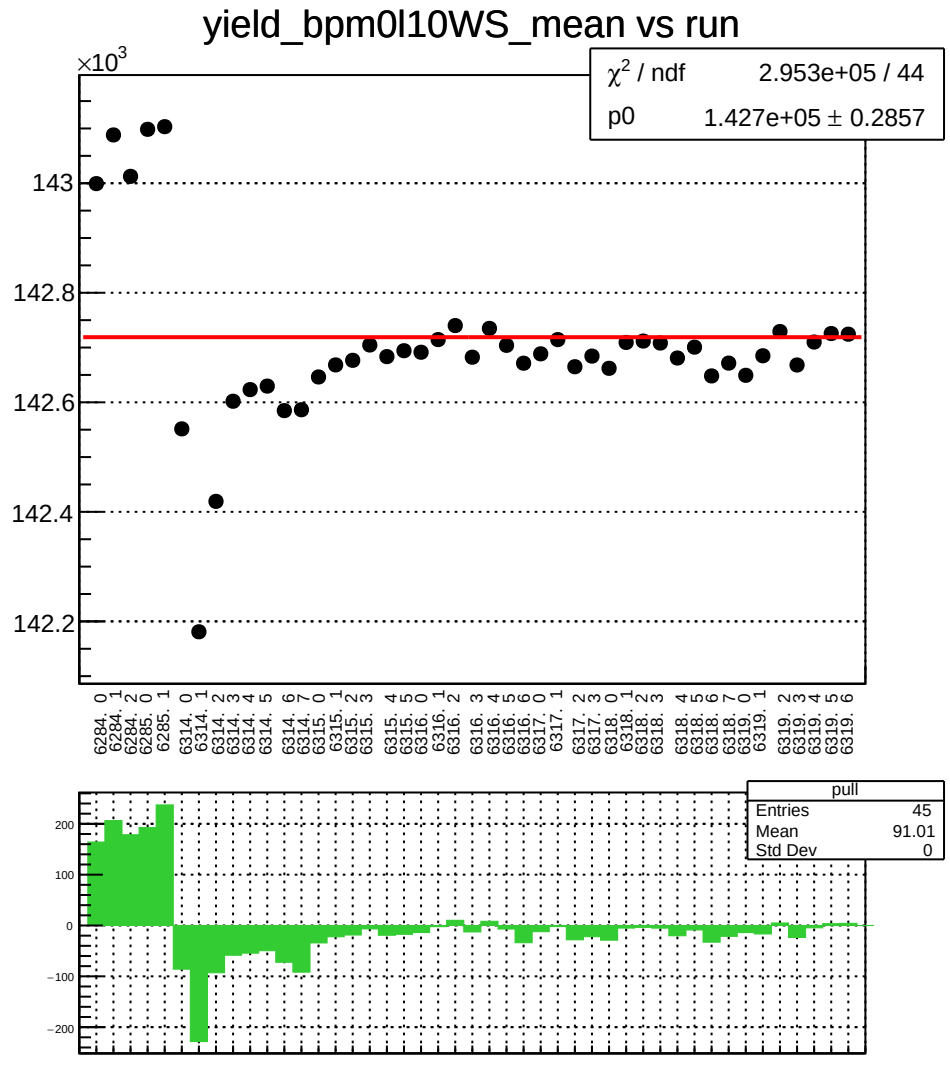

pull1D
Entries 45
Mean −1.757
Std Dev 3.093
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

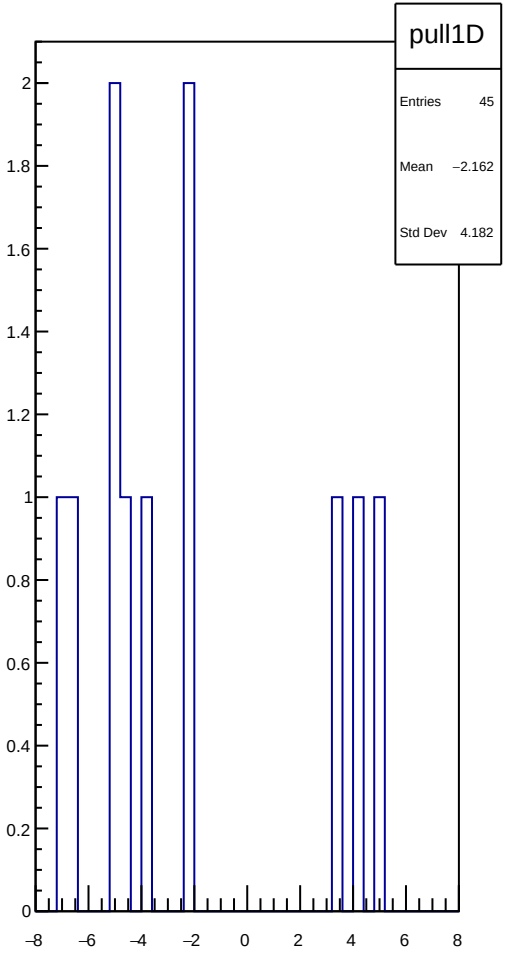

yield_bpm0l08WS_rms vs run
χ² / ndf 1.488e+04 / 44
p0 187.5 ± 0.1985
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

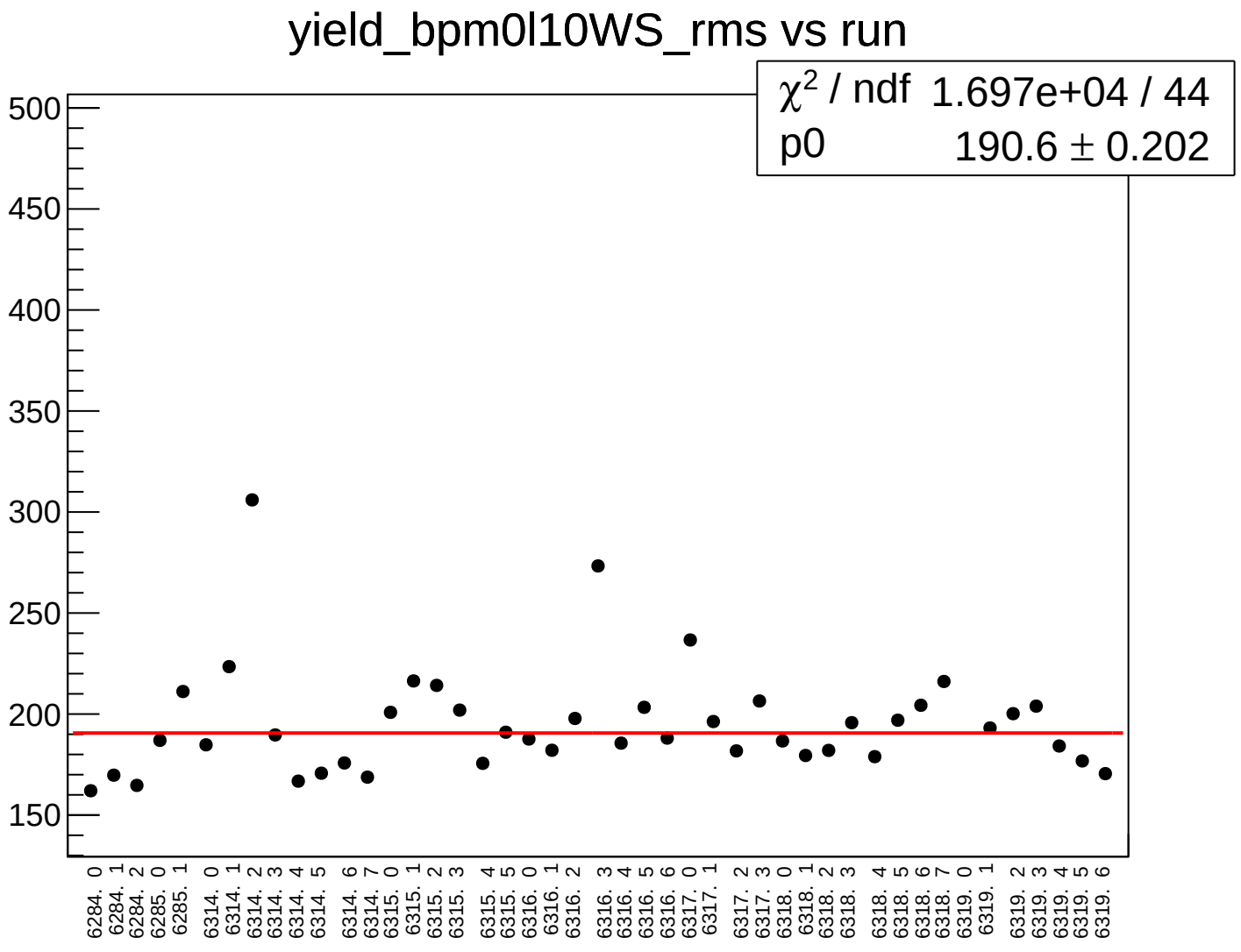

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.773e+05 / 44
p0 1.416e+05 ± 0.272
141.9
141.8
141.7
141.6
141.5
141.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 446.2
Std Dev 0
200
150
100
50
0
−50

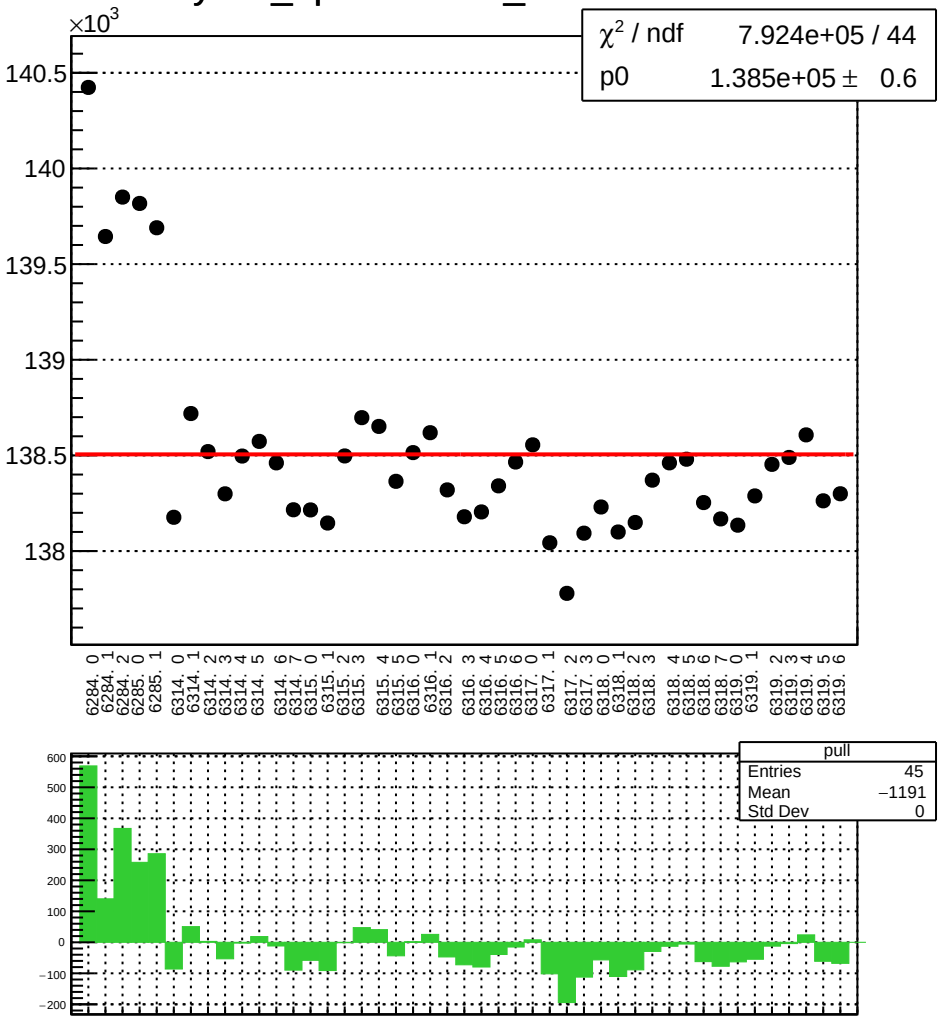

pull1D
Entries 45
Mean −4.182
Std Dev 2.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l09WS_rms vs run
χ² / ndf 1.667e+04 / 44
p0 181.5 ± 0.1924
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 2.953e+05 / 44
p0 1.427e+05 ± 0.2857
143
142.8
142.6
142.4
142.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 91.01
Std Dev 0
200
100
0
−100
−200


pull1D
Entries 45
Mean −2.162
Std Dev 4.182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l10WS_rms vs run
χ² / ndf 1.697e+04 / 44
p0 190.6 ± 0.202
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 7.924e+05 / 44
p0 1.385e+05 ± 0.6
140.5
140
139.5
139
138.5
138
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 3
6315. 4
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6316. 0
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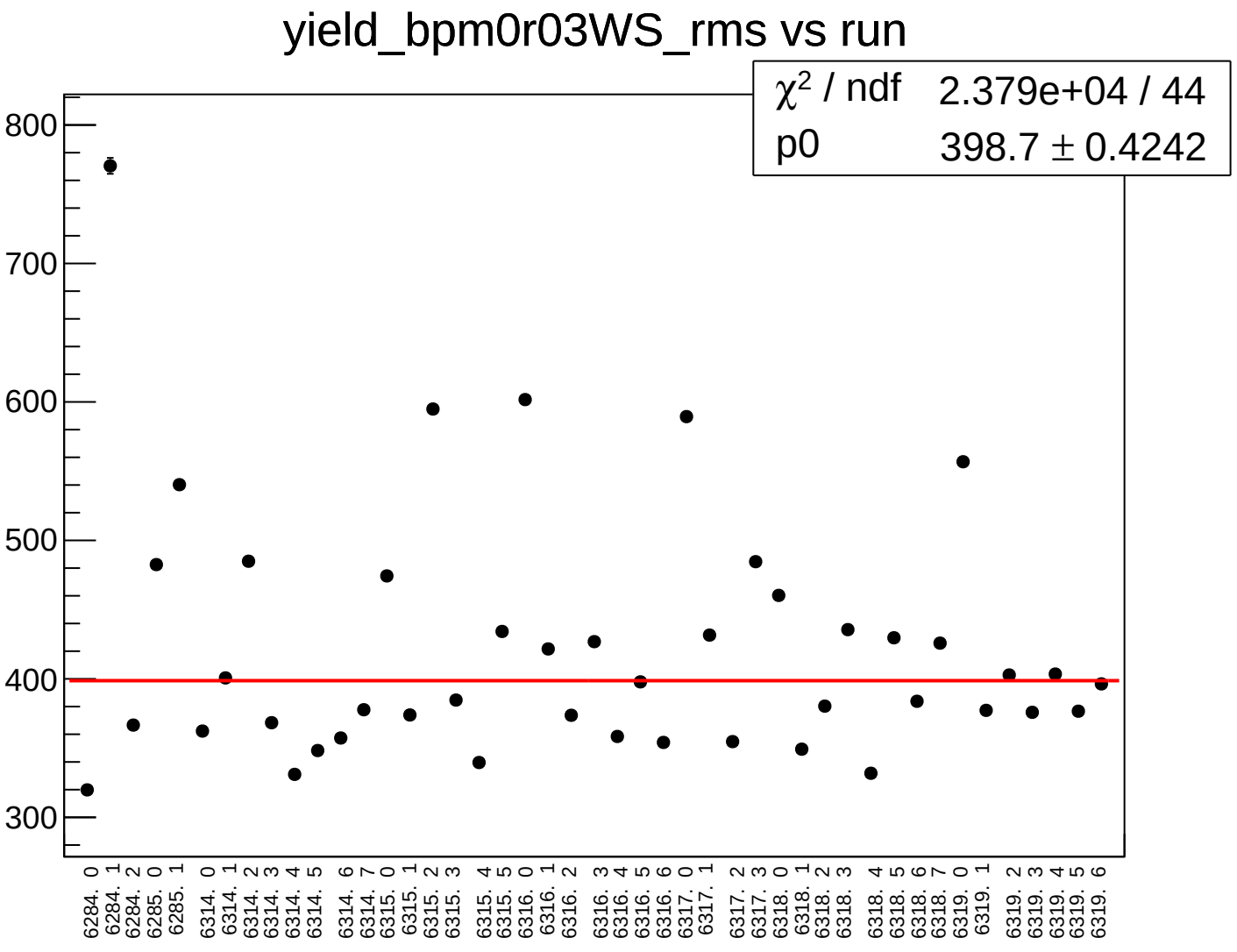
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1191
Std Dev 0
600
500
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean −1.527
Std Dev 2.944
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0r03WS_rms vs run
χ² / ndf 2.379e+04 / 44
p0 398.7 ± 0.4242
800
700
600
500
400
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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6319. 1
6319. 2
6319. 3
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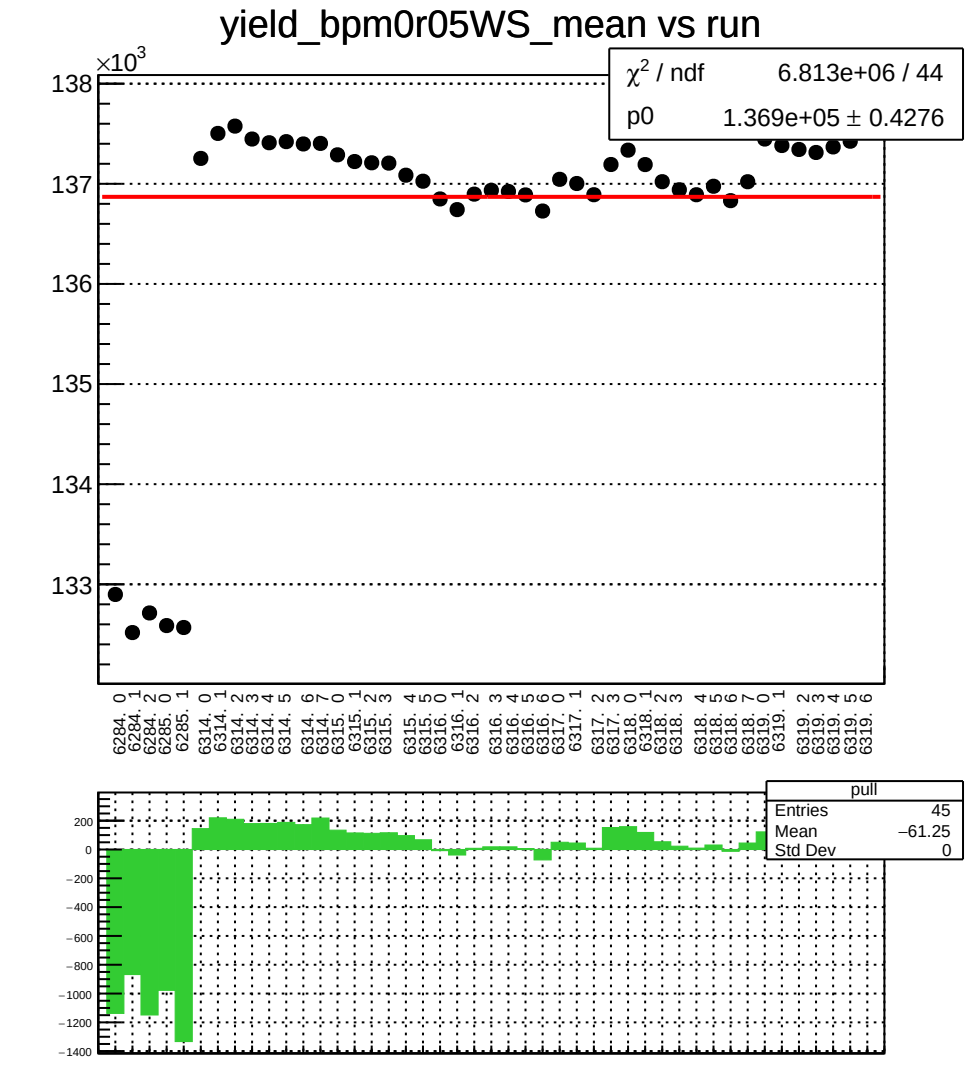
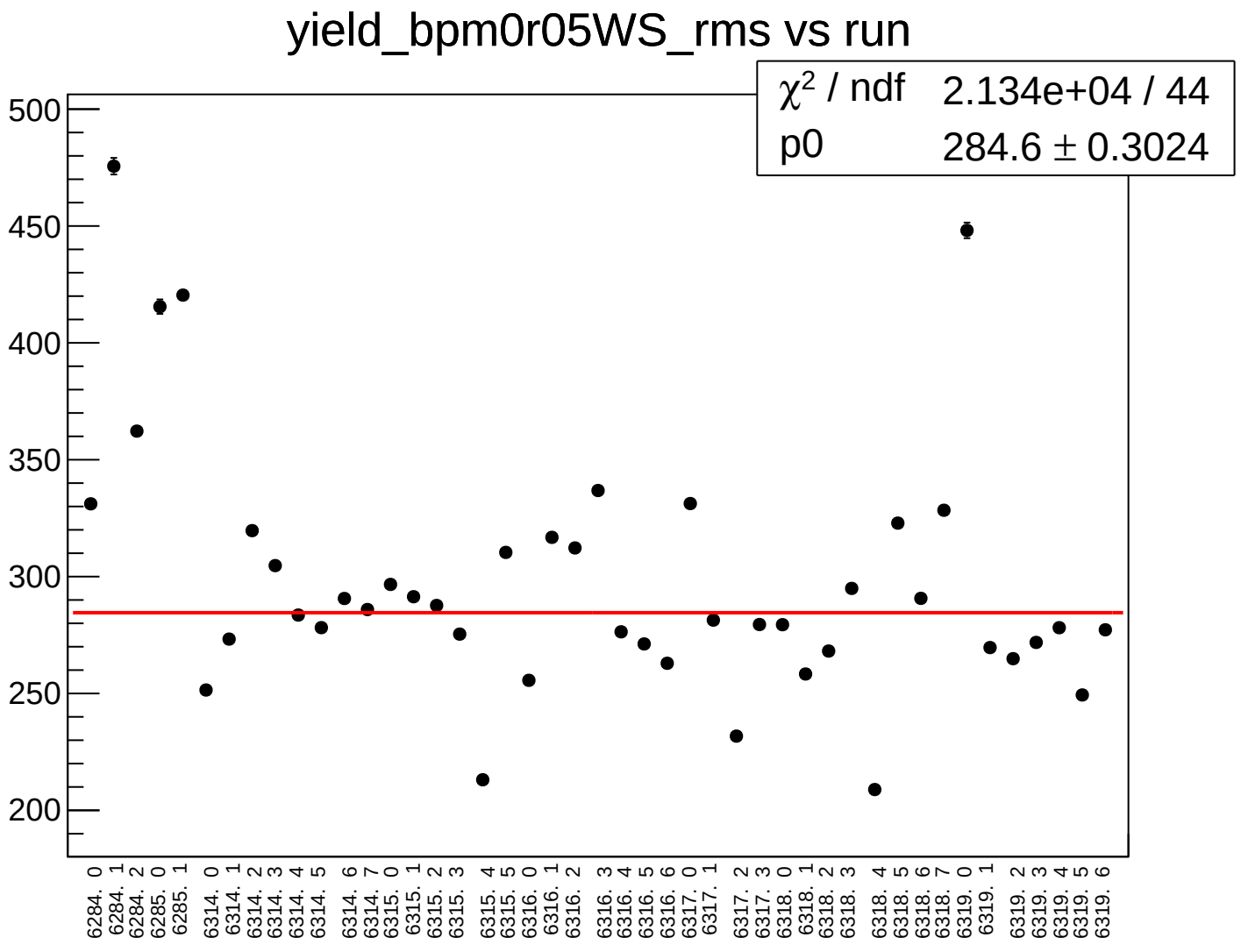
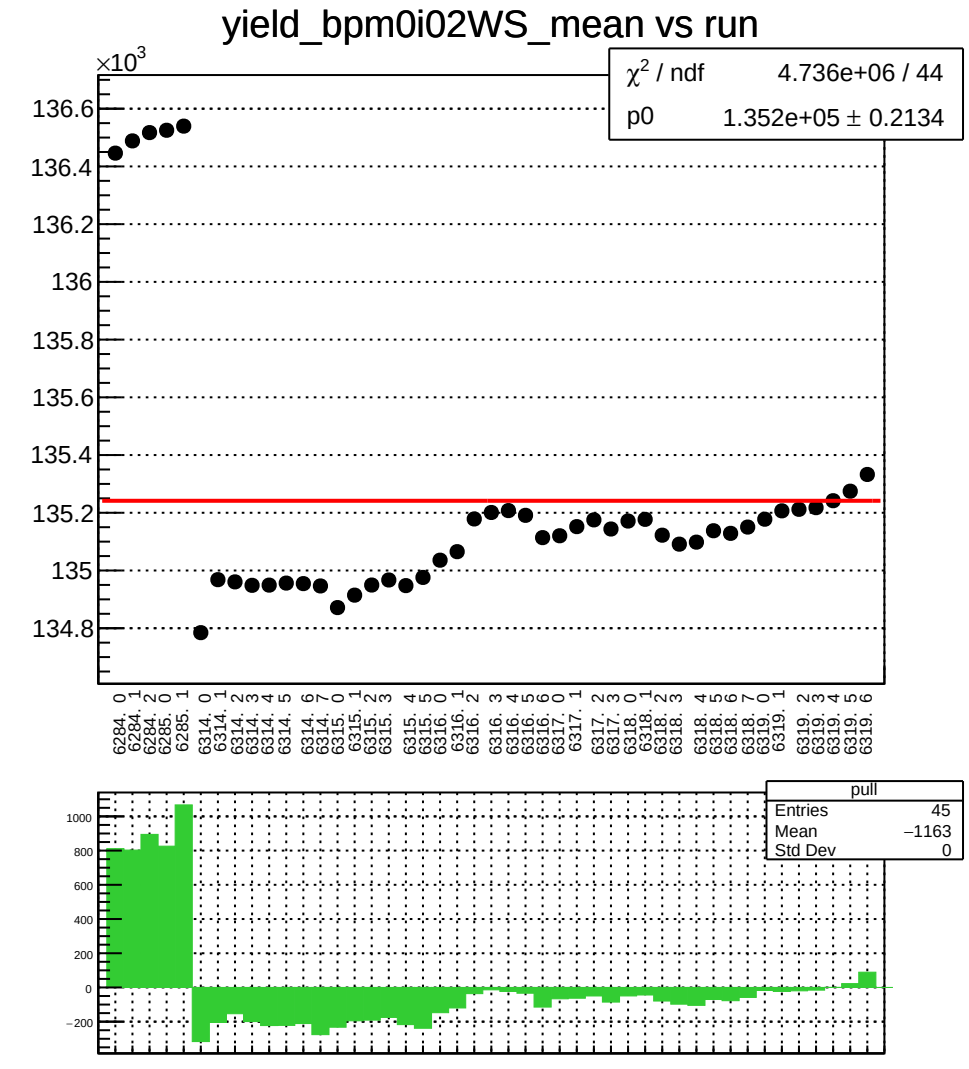
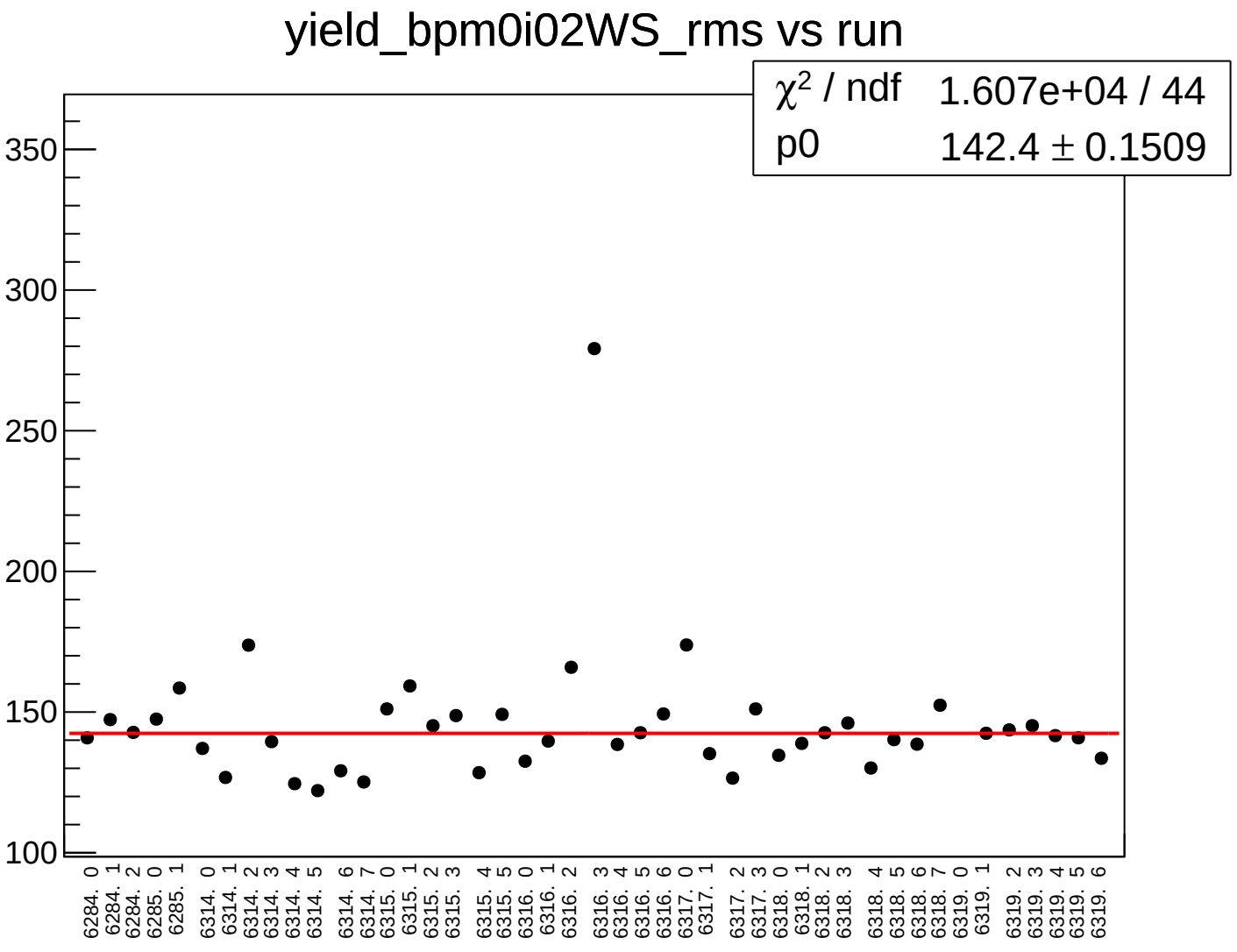
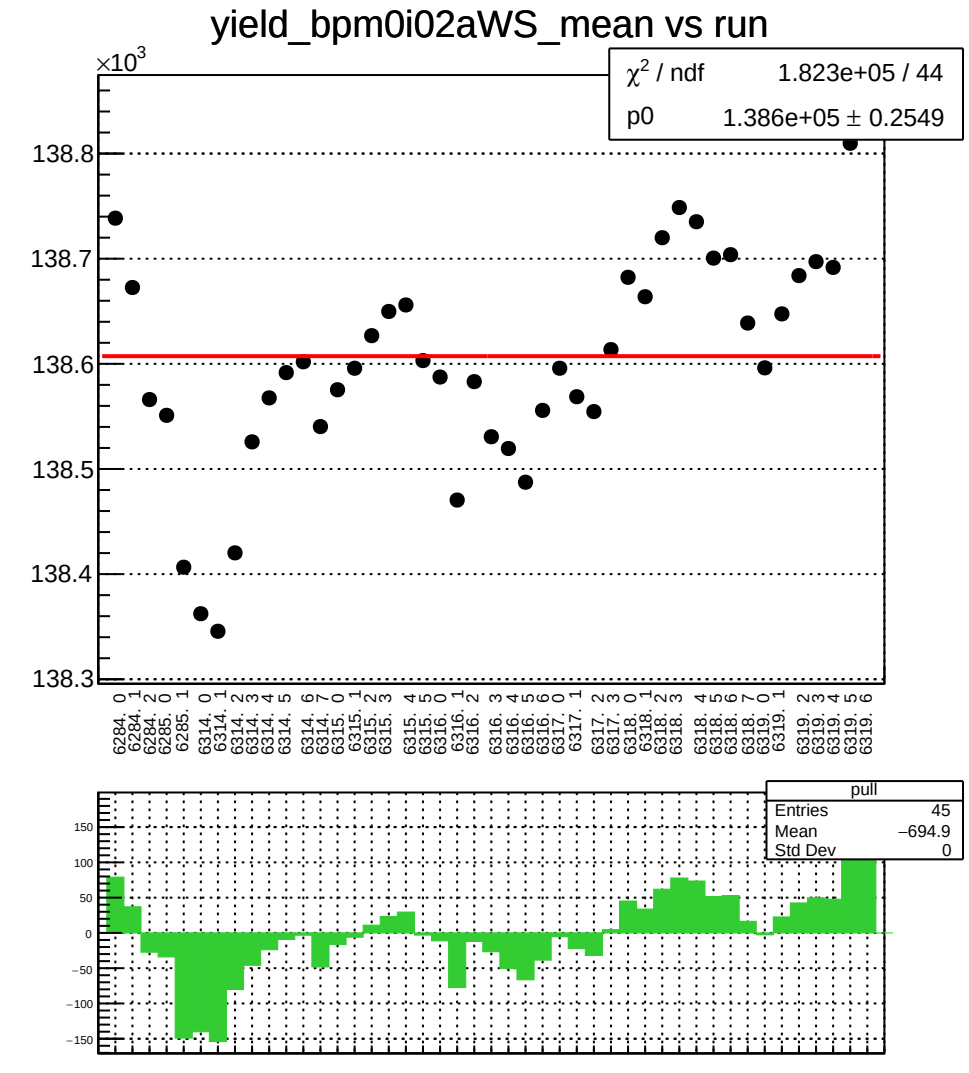
6319. 5
6319. 6

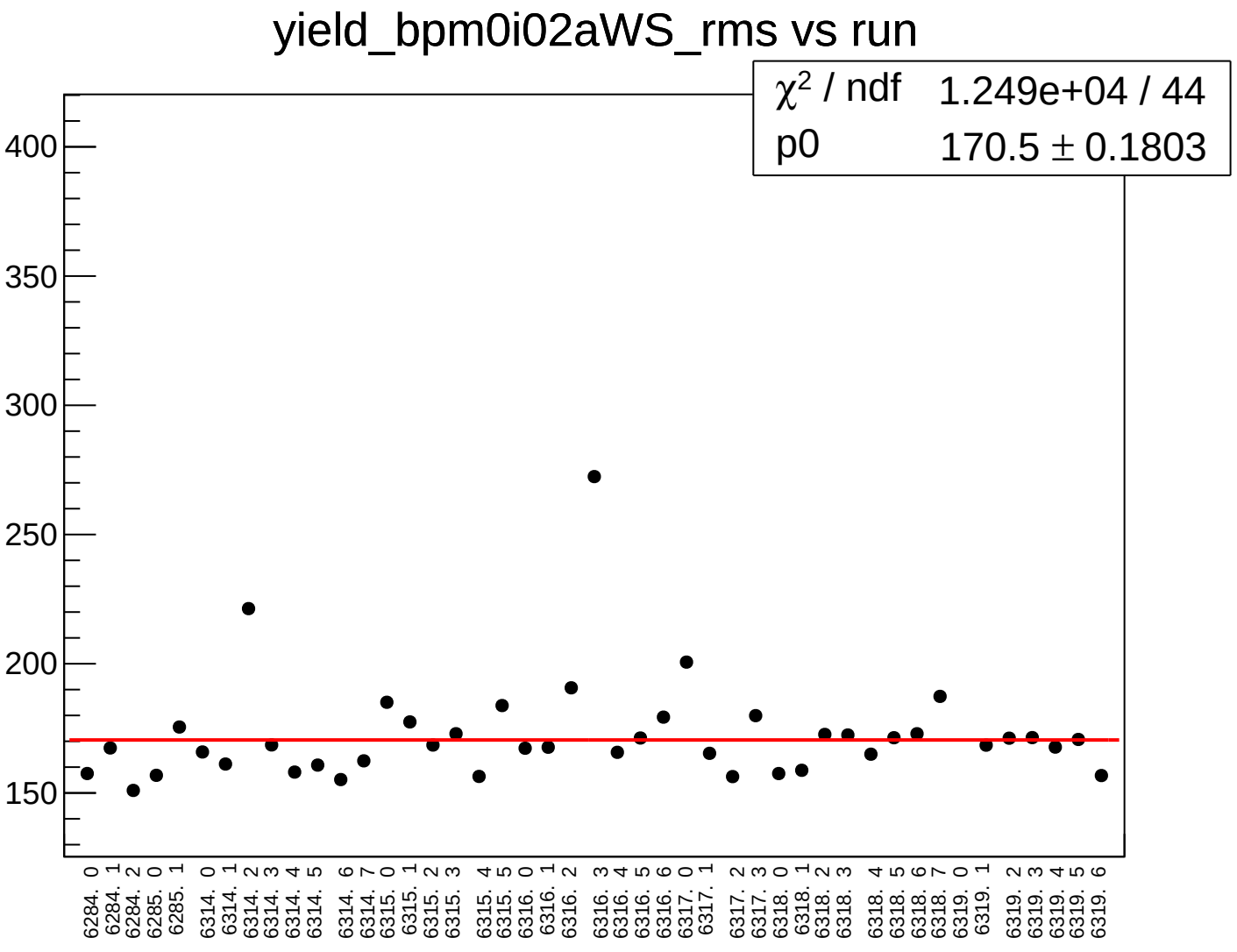

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 6.813e+06 / 44
p0 1.369e+05 ± 0.4276
138
137
136
135
134
133
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −61.25
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 45
Mean −0.5401
Std Dev 7.256
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

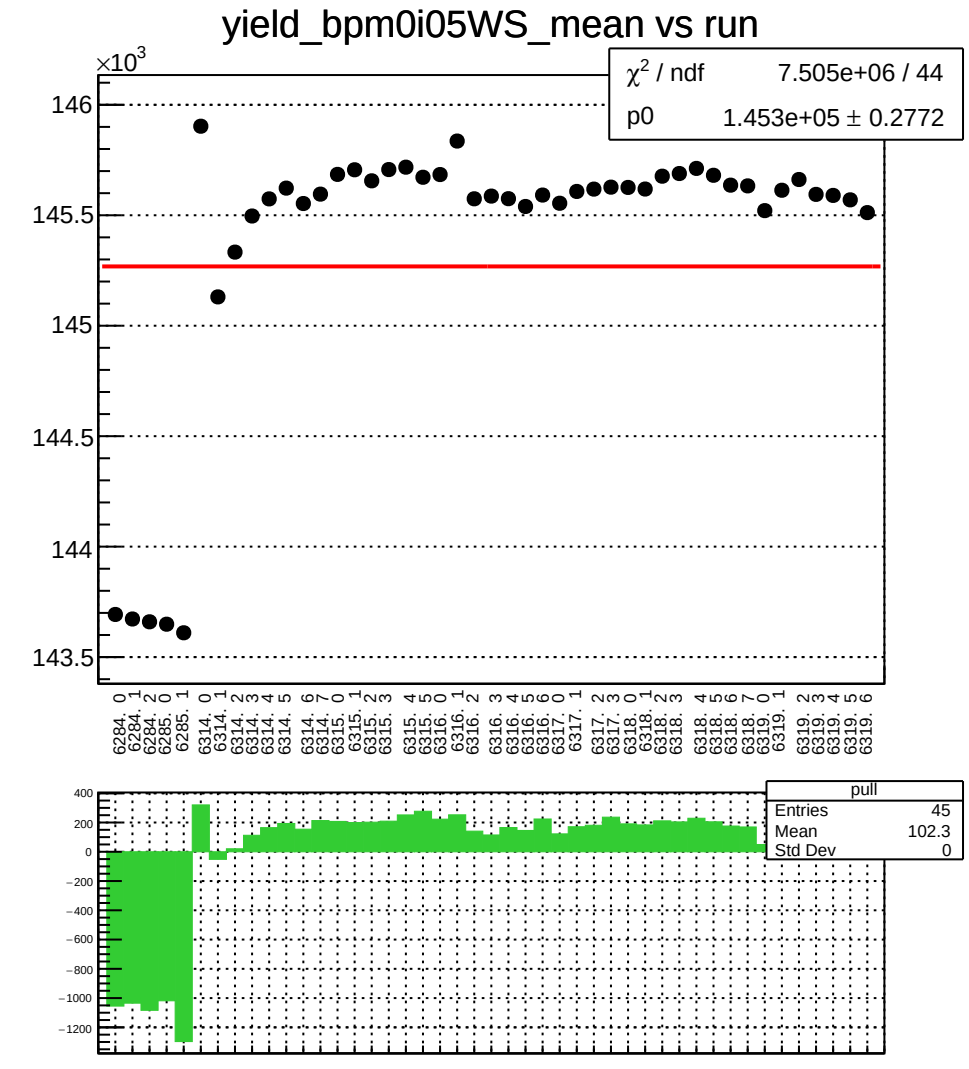

yield_bpm0r05WS_rms vs run
χ² / ndf 2.134e+04 / 44
p0 284.6 ± 0.3024
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

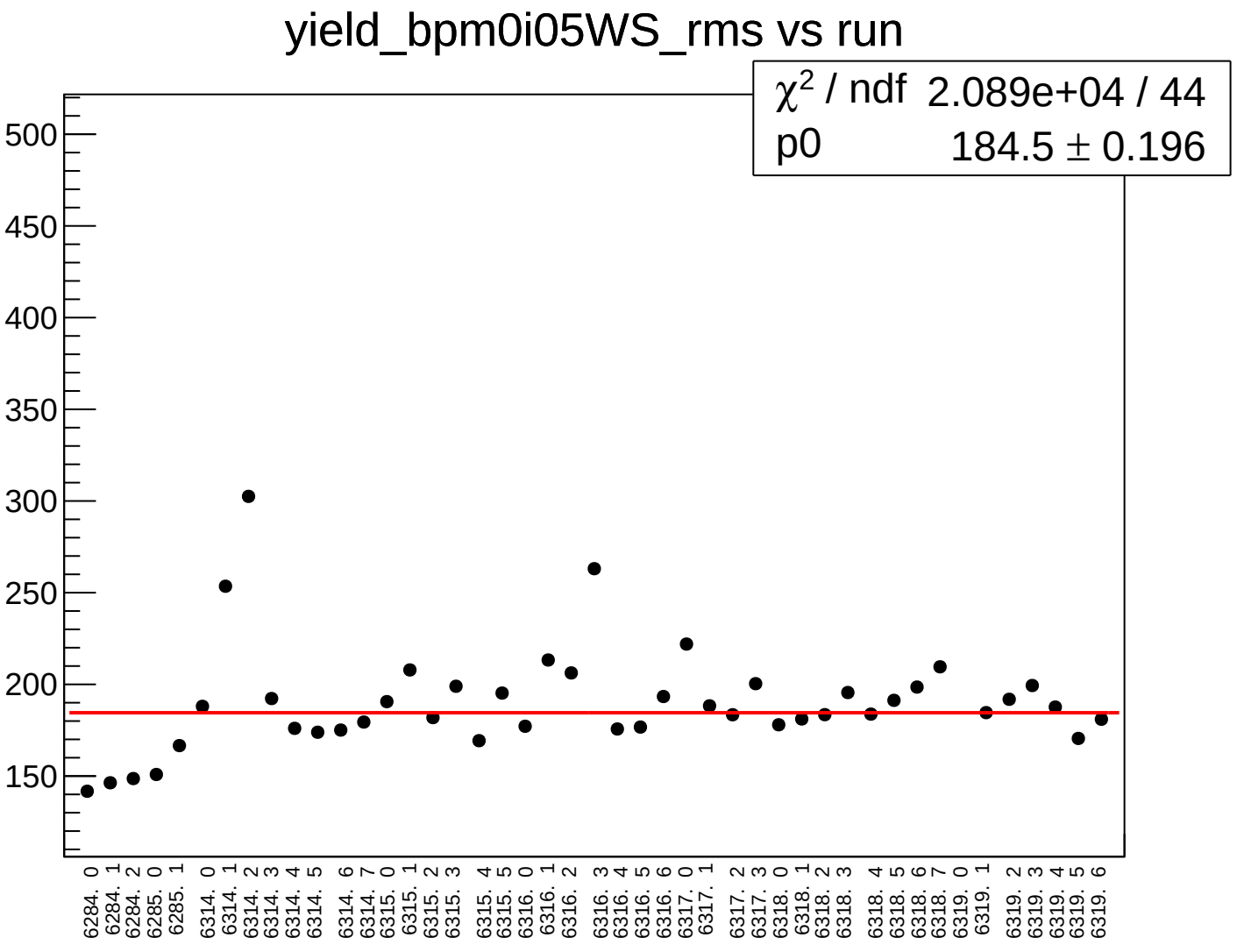

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.736e+06 / 44
p0 1.352e+05 ± 0.2134
136.6
136.4
136.2
136
135.8
135.6
135.4
135.2
135
134.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1163
Std Dev 0
1000
800
600
400
200
0
−200
pull1D
Entries 45
Mean 0.1715
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02WS_rms vs run
χ² / ndf 1.607e+04 / 44
p0 142.4 ± 0.1509
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.823e+05 / 44
p0 1.386e+05 ± 0.2549
138.8
138.7
138.6
138.5
138.4
138.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −694.9
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean −2.665
Std Dev 3.477
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aWS_rms vs run
χ² / ndf 1.249e+04 / 44
p0 170.5 ± 0.1803
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.505e+06 / 44
p0 1.453e+05 ± 0.2772
146
145.5
145
144.5
144
143.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 102.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i05WS_rms vs run
χ² / ndf 2.089e+04 / 44
p0 184.5 ± 0.196
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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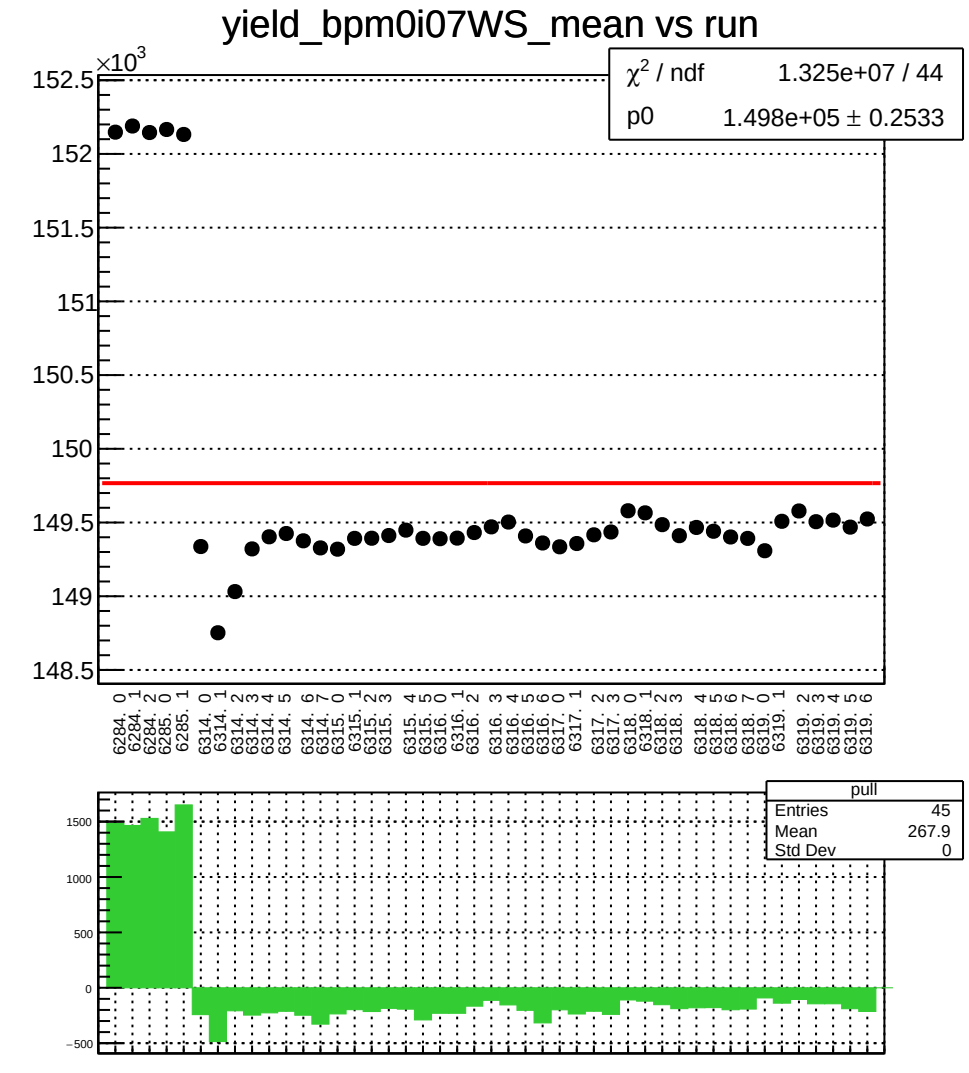
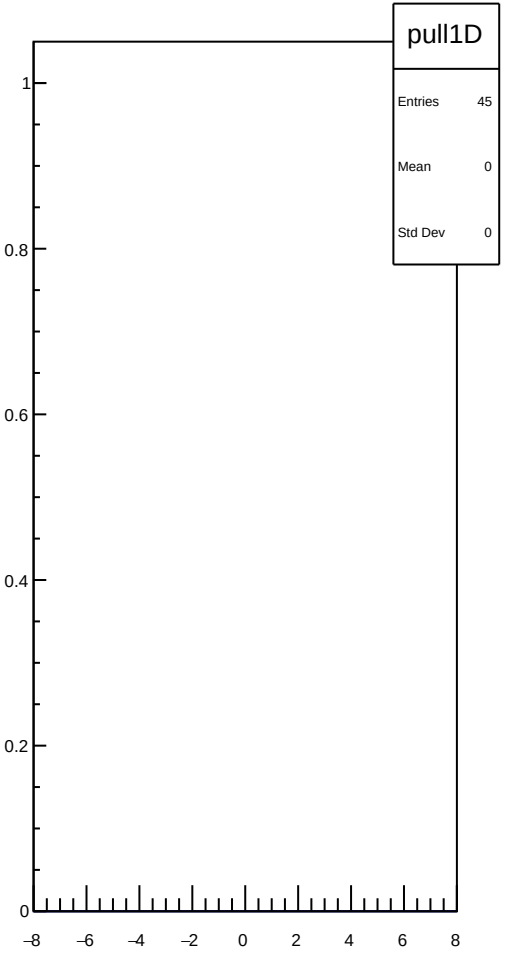
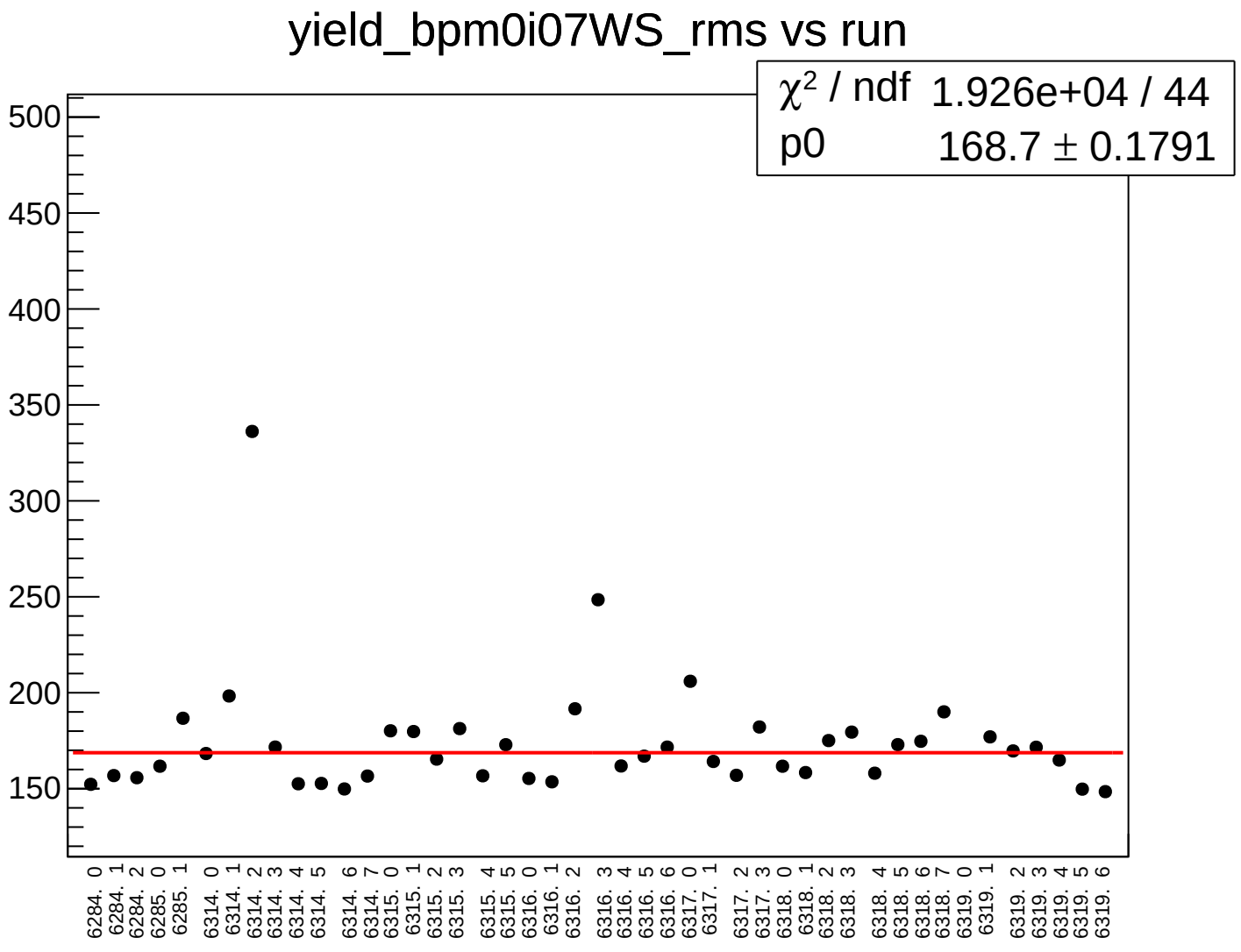
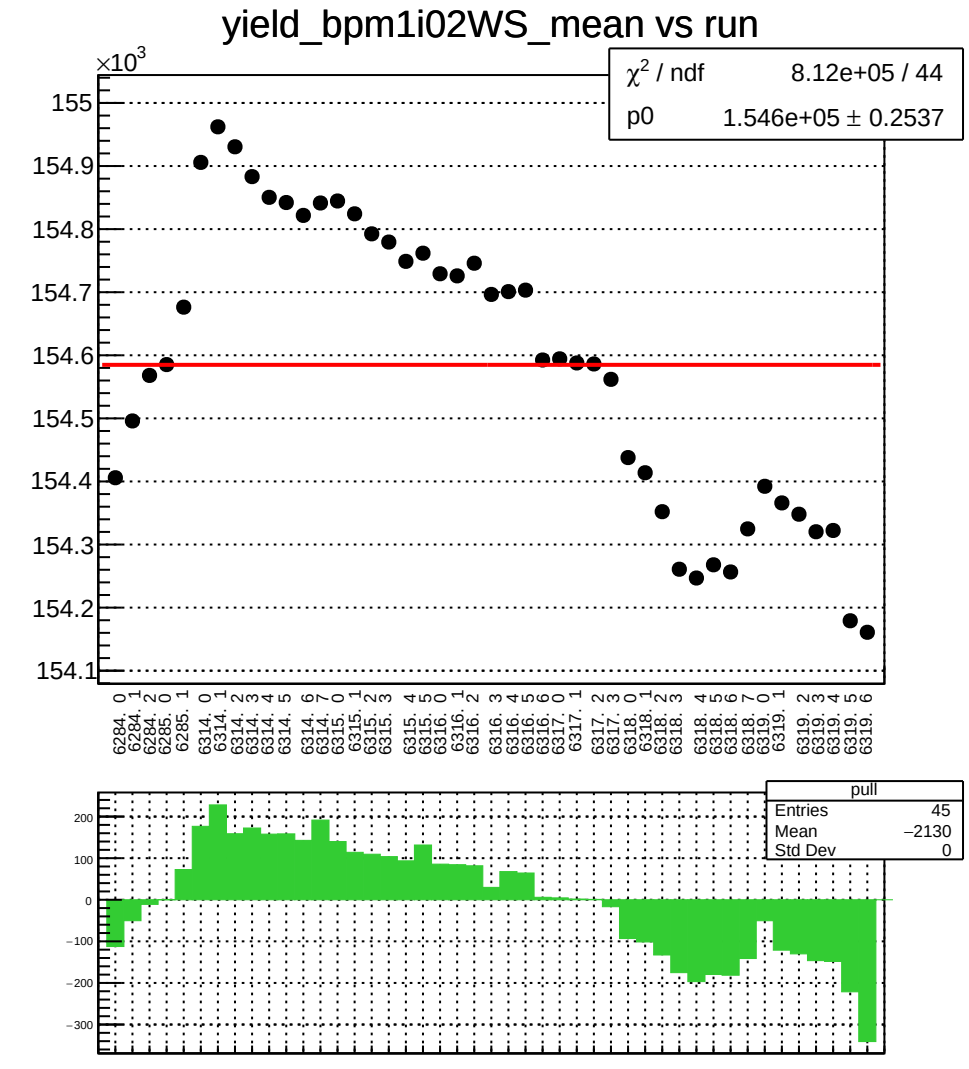
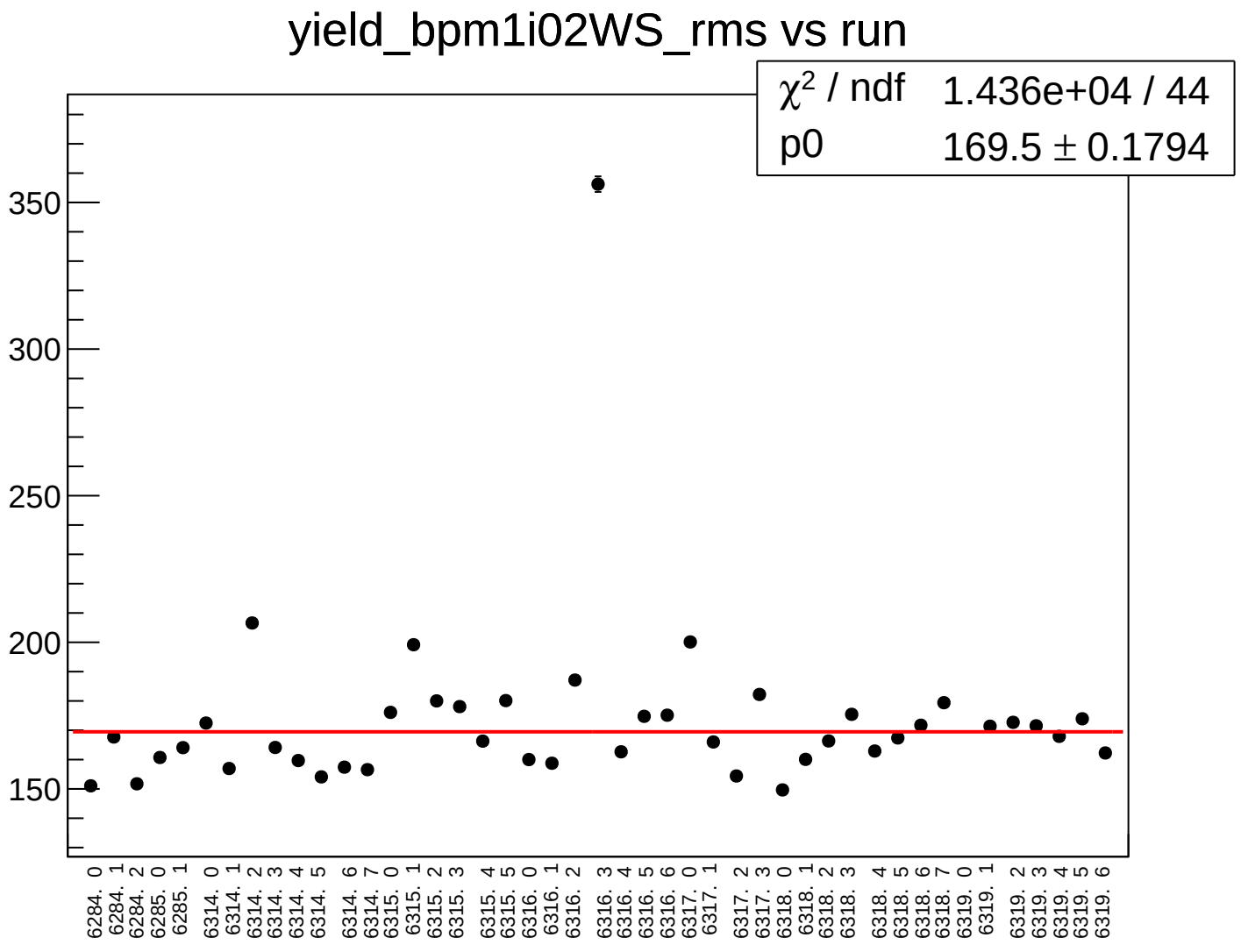
6319. 5
6319. 6

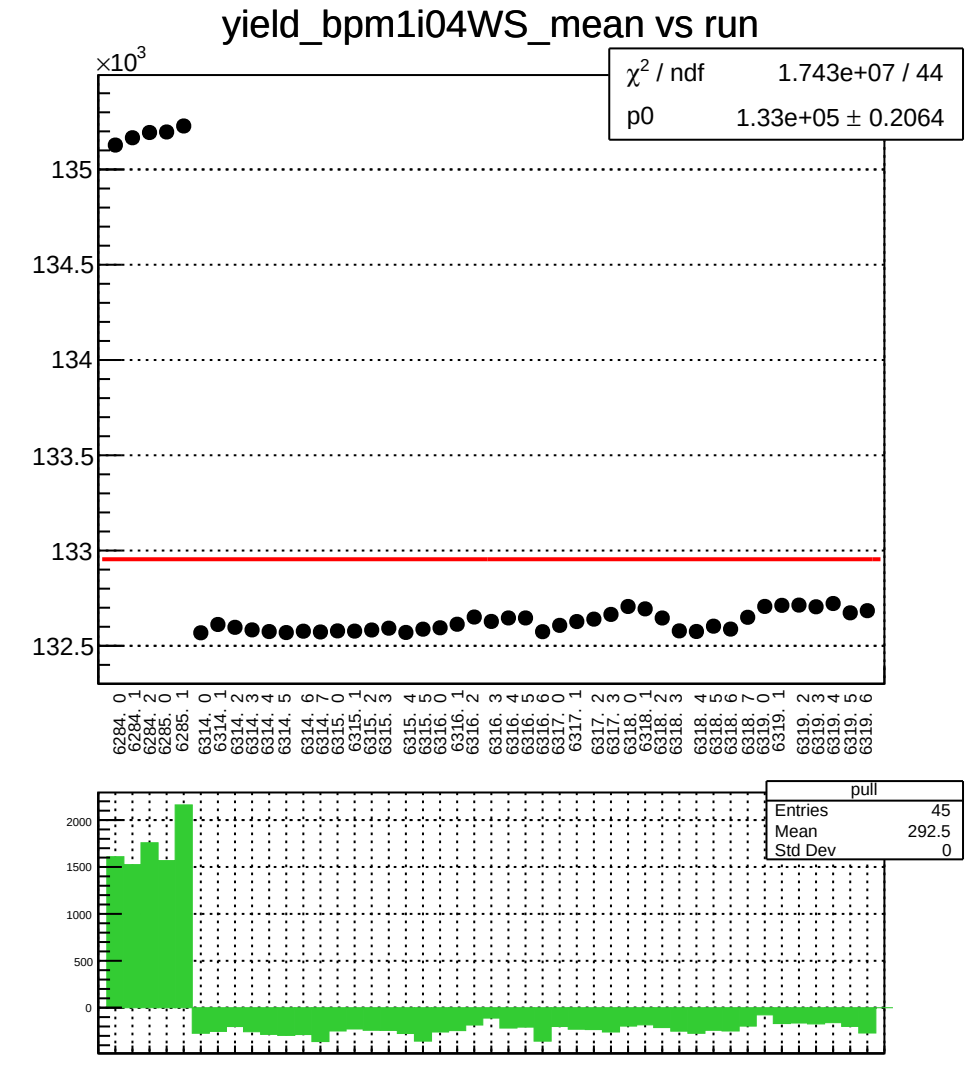

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.325e+07 / 44
p0 1.498e+05 ± 0.2533
152.5
152
151.5
151
150.5
150
149.5
149
148.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 267.9
Std Dev 0
1500
1000
500
0
−500

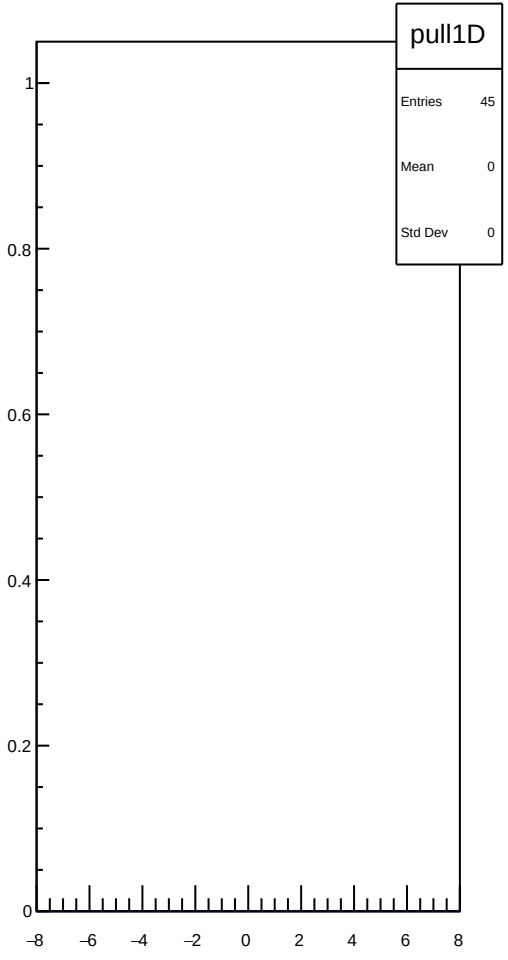

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

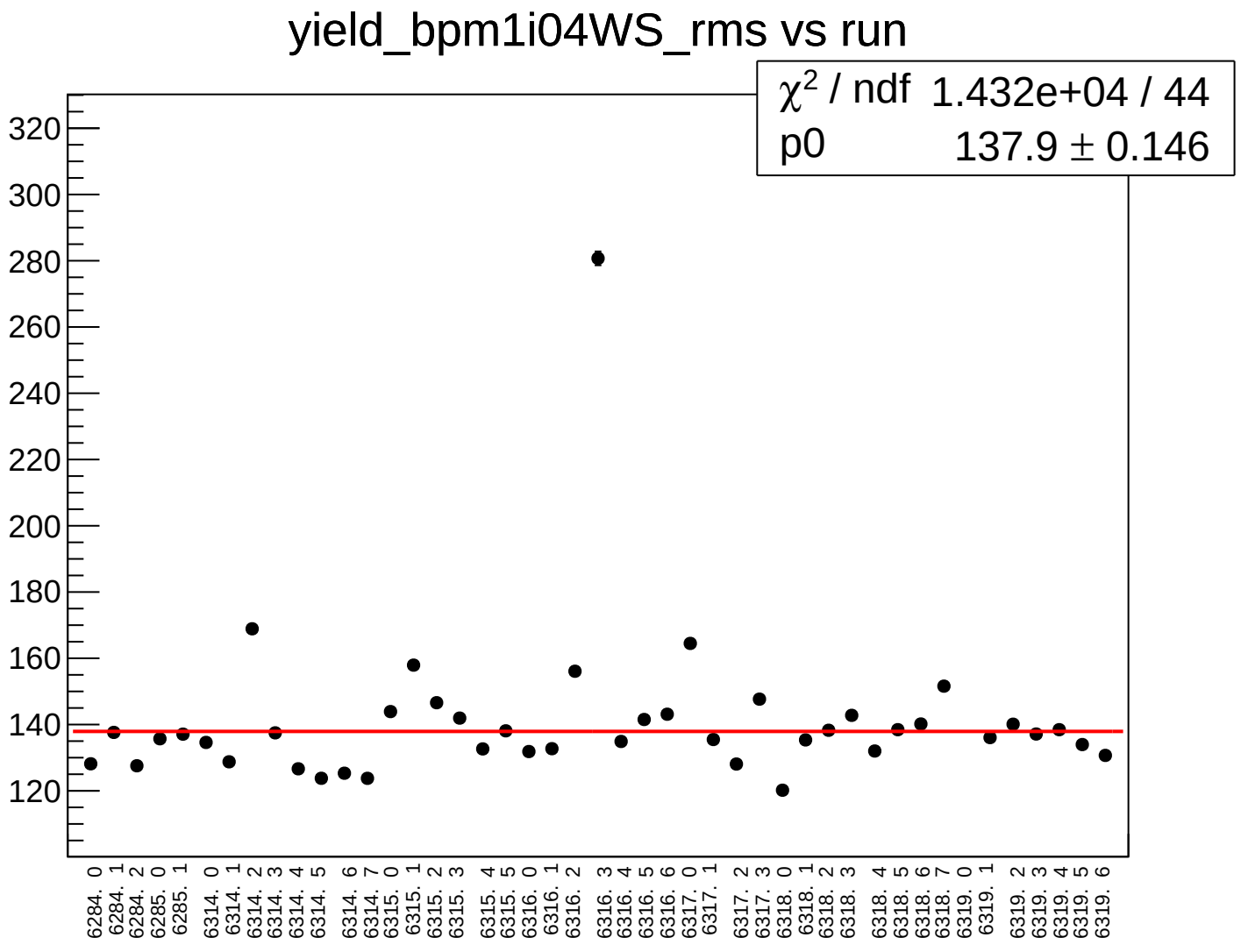

yield_bpm0i07WS_rms vs run
χ² / ndf 1.926e+04 / 44
p0 168.7 ± 0.1791
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i02WS_mean vs run
×10^3
155
154.9
154.8
154.7
154.6
154.5
154.4
154.3
154.2
154.1
χ² / ndf 8.12e+05 / 44
p0 1.546e+05 ± 0.2537
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2130
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean 2.639
Std Dev 2.178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i02WS_rms vs run
χ² / ndf 1.436e+04 / 44
p0 169.5 ± 0.1794
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i04WS_mean vs run
χ² / ndf 1.743e+07 / 44
p0 1.33e+05 ± 0.2064
×10³
135
134.5
134
133.5
133
132.5
pull
Entries 45
Mean 292.5
Std Dev 0
2000
1500
1000
500
0


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_bpm1i04WS_rms vs run
χ² / ndf 1.432e+04 / 44
p0 137.9 ± 0.146
320
300
280
260
240
220
200
180
160
140
120
6284. 0
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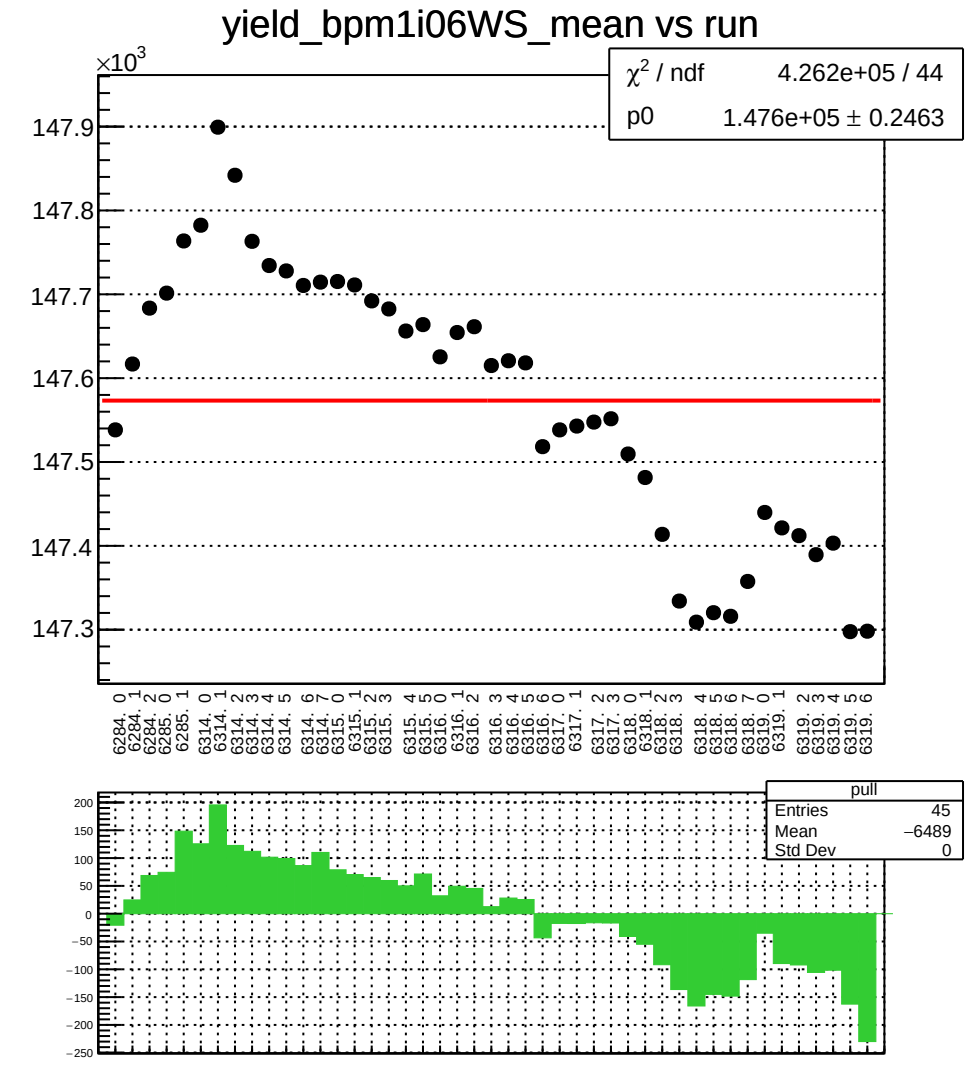
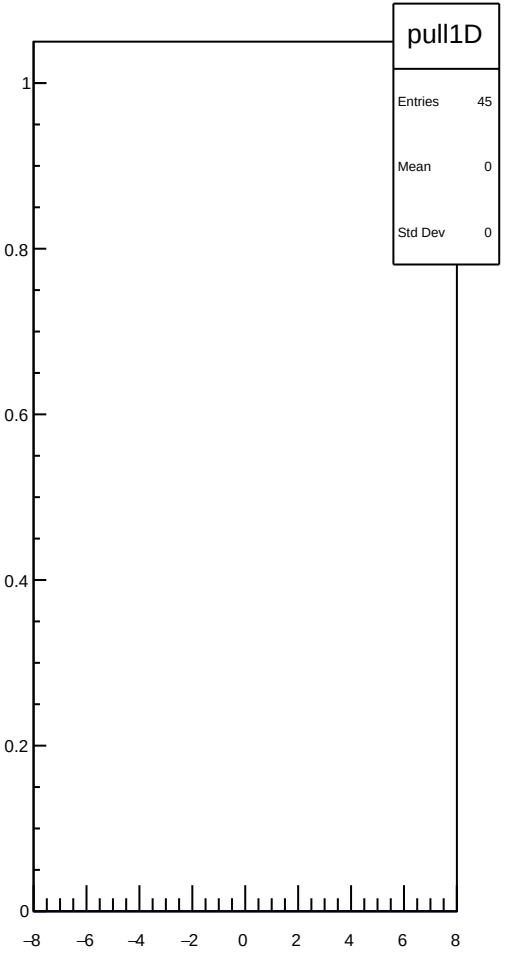
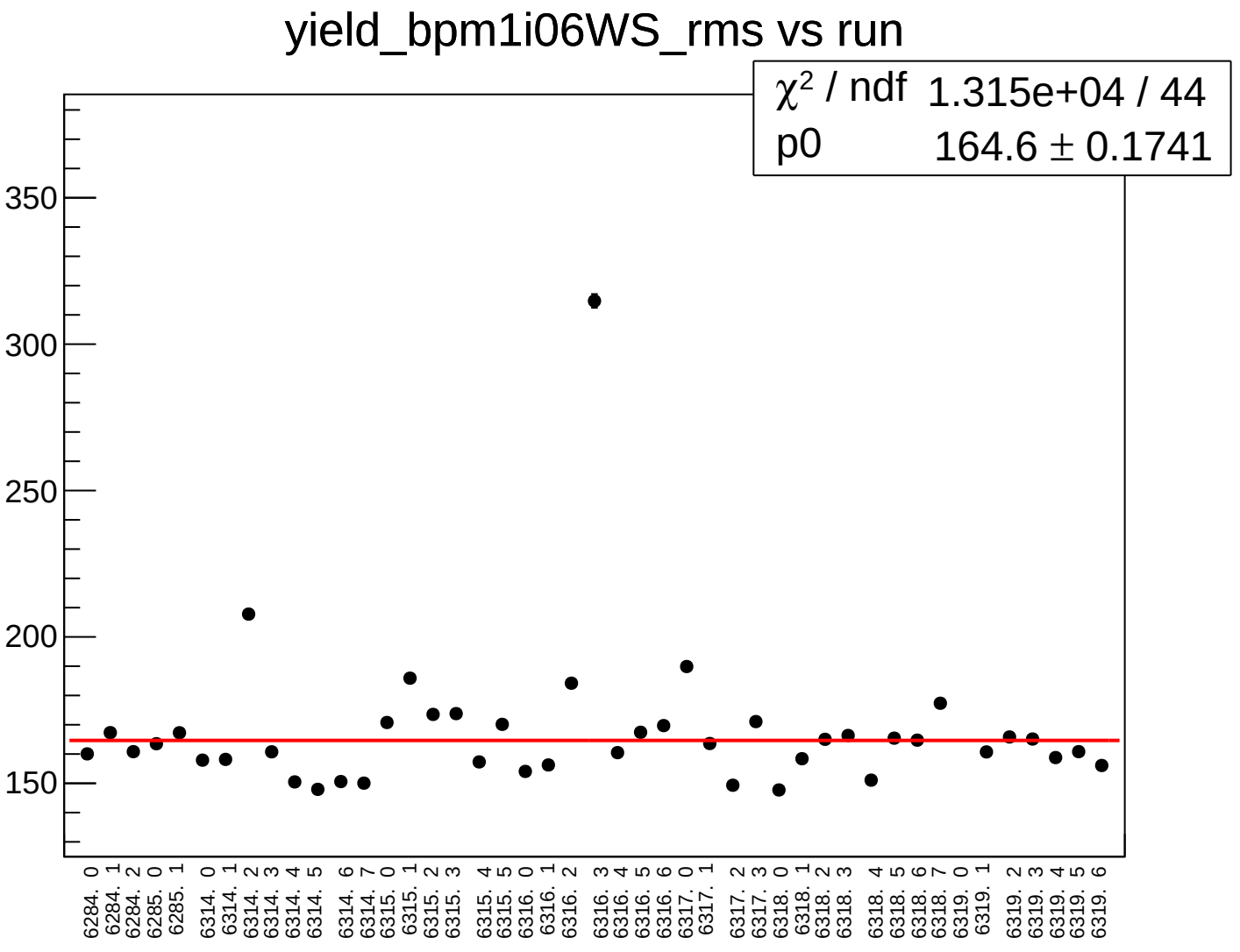
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.262e+05 / 44
p0 1.476e+05 ± 0.2463
147.9
147.8
147.7
147.6
147.5
147.4
147.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6489
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i06WS_rms vs run
χ² / ndf 1.315e+04 / 44
p0 164.6 ± 0.1741
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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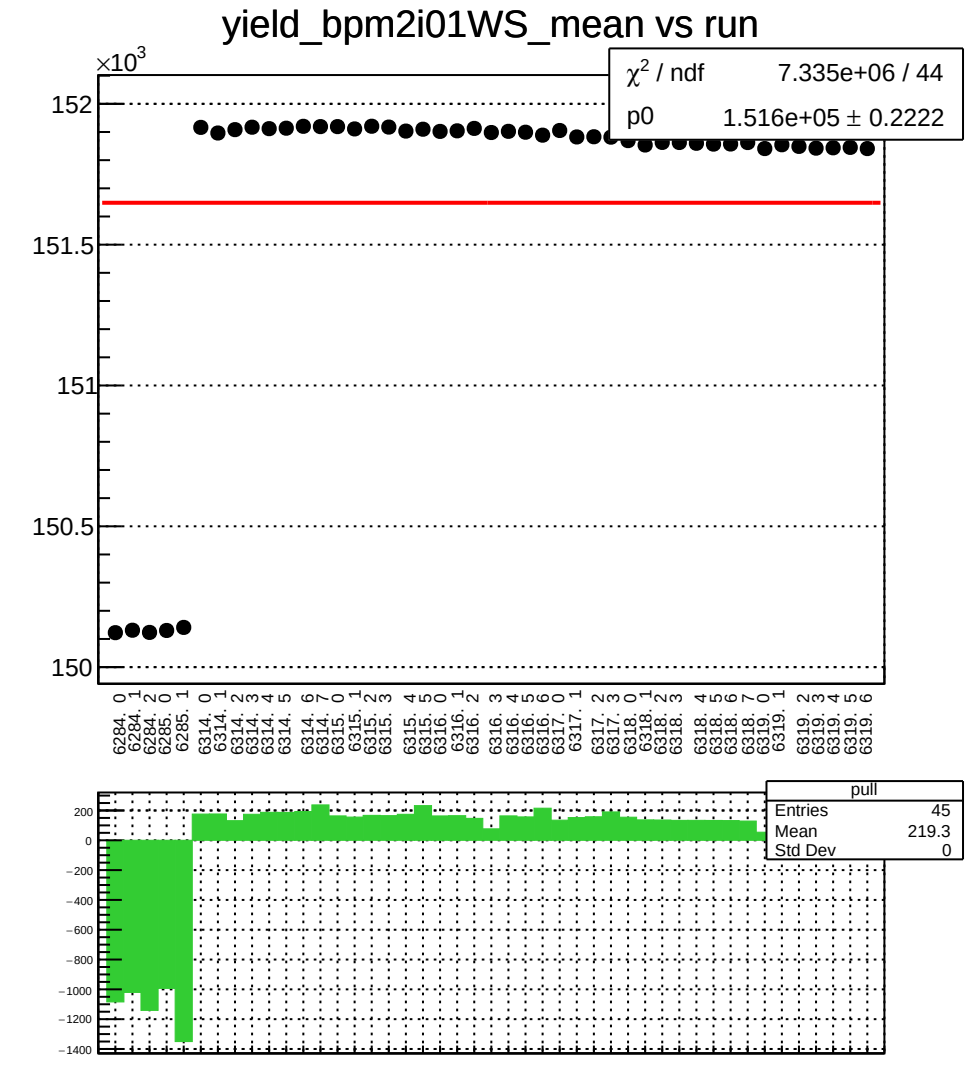
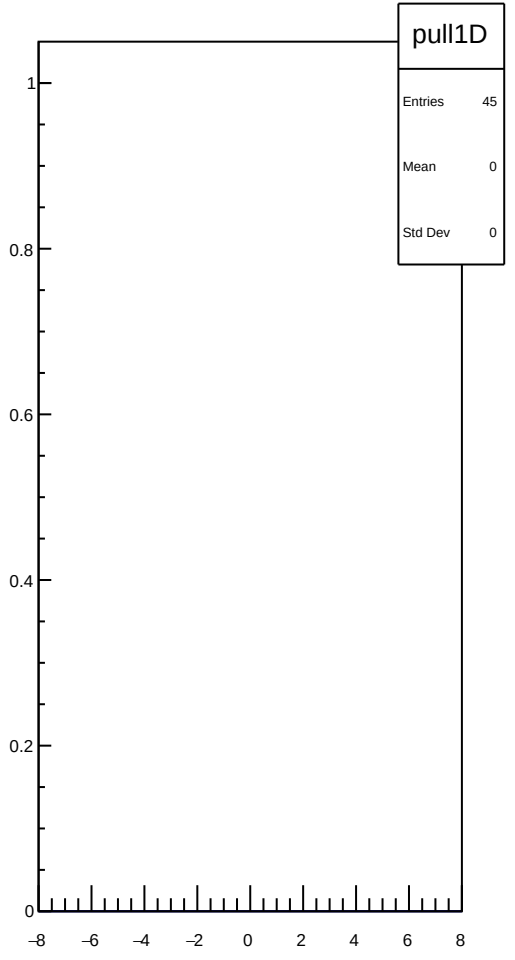
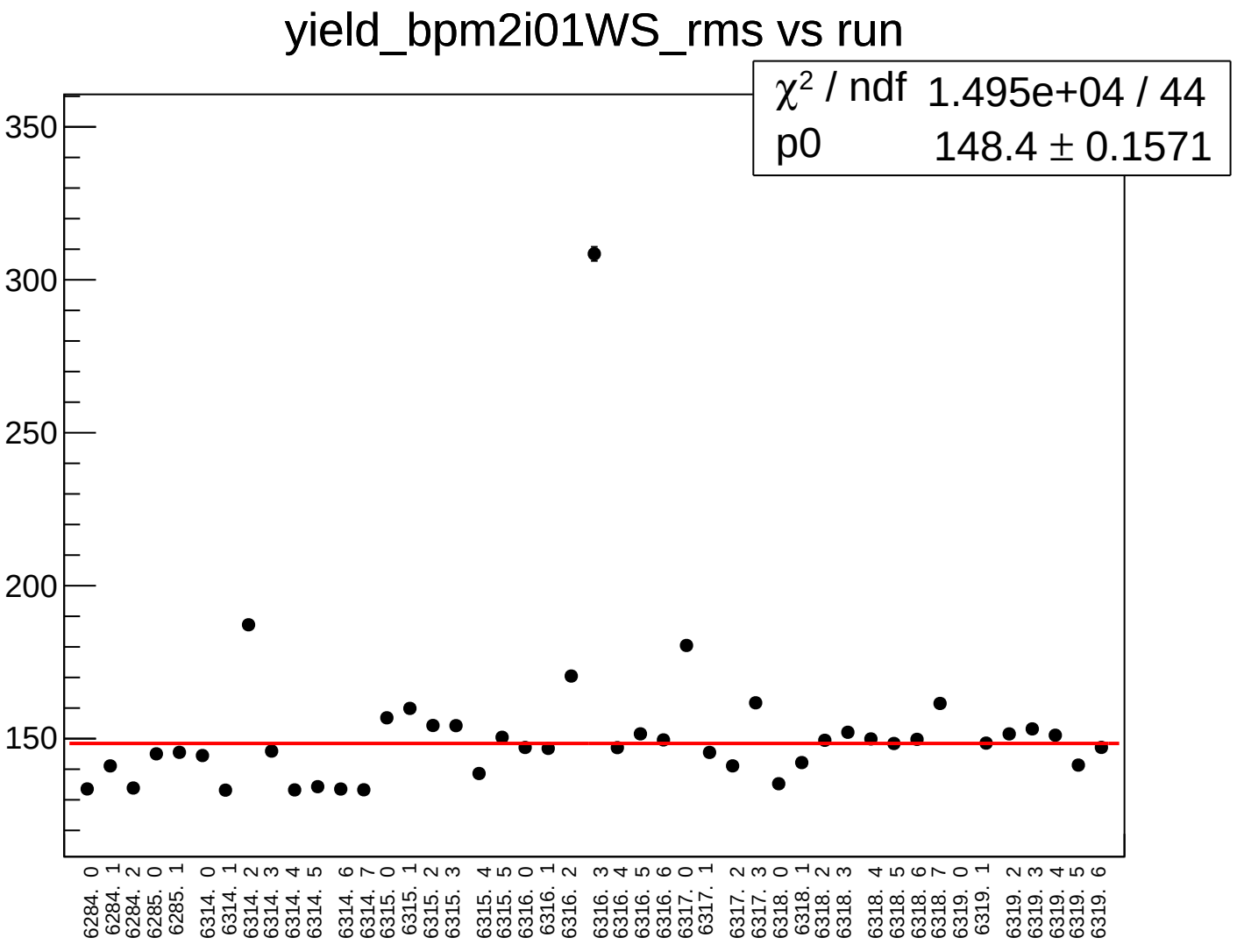
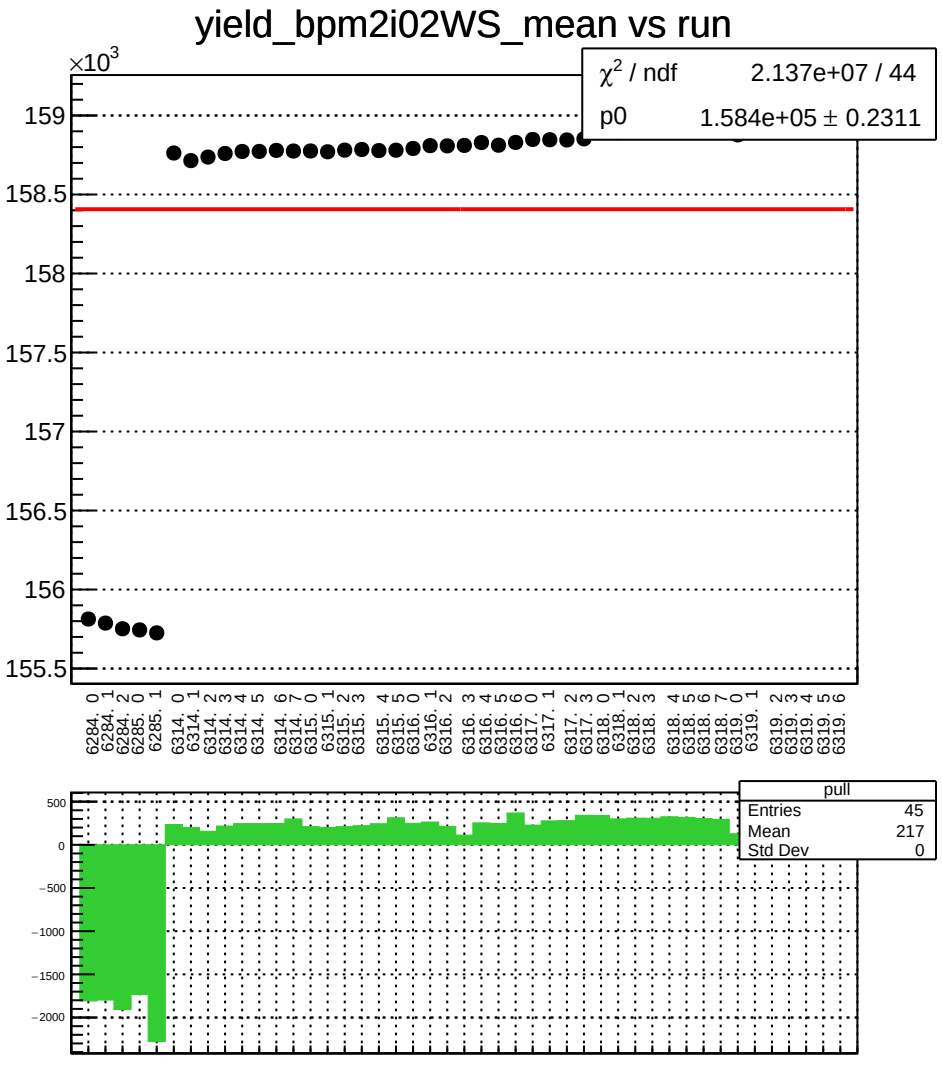
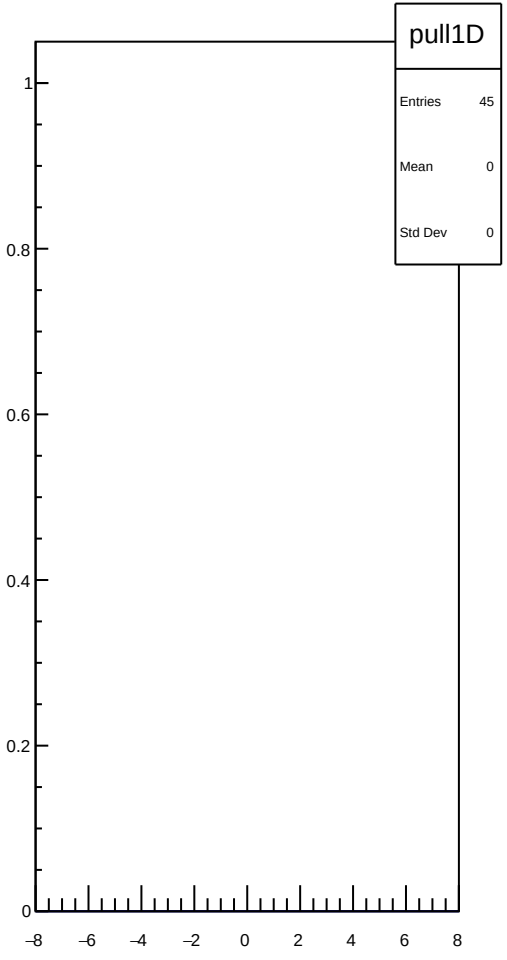
6319. 5
6319. 6

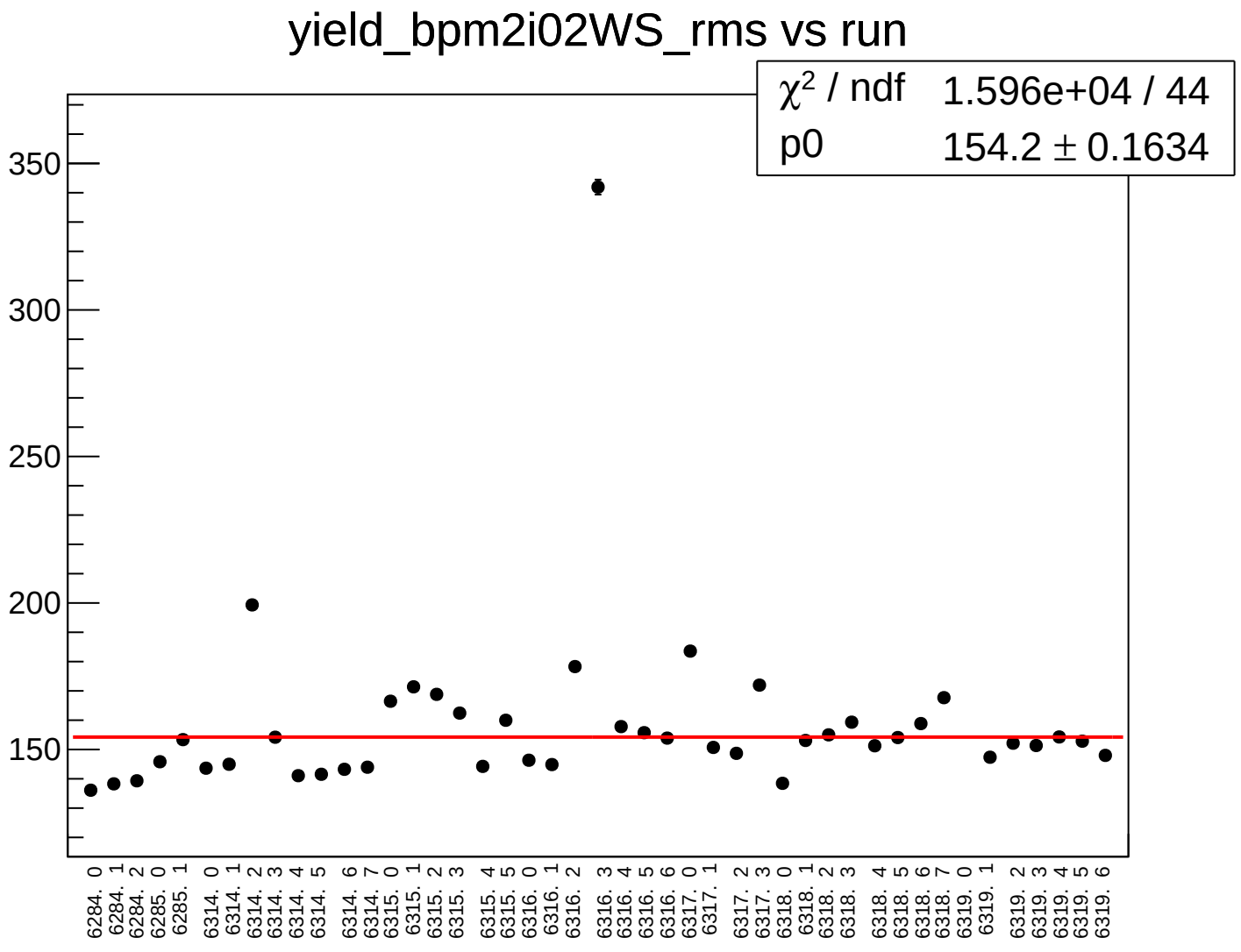

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.335e+06 / 44
p0 1.516e+05 ± 0.2222
152
151.5
151
150.5
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.3
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

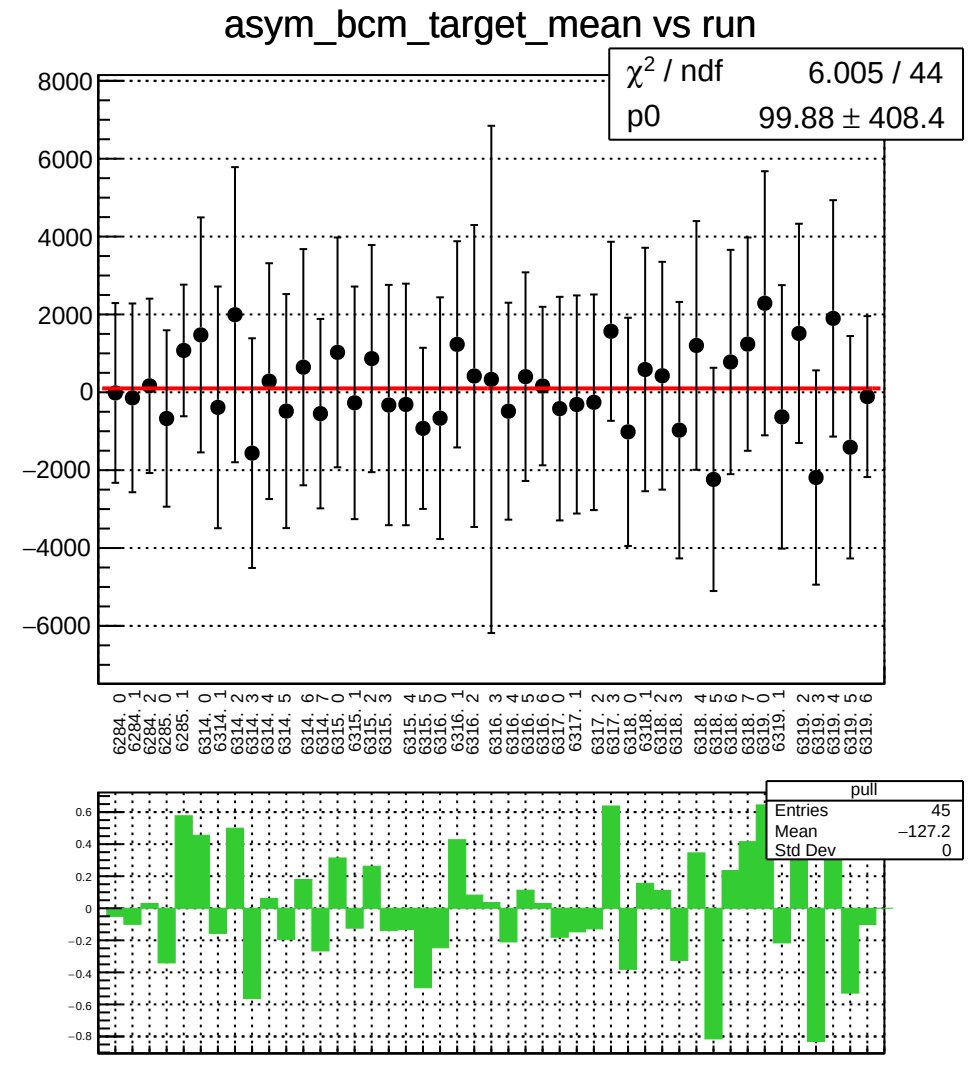

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

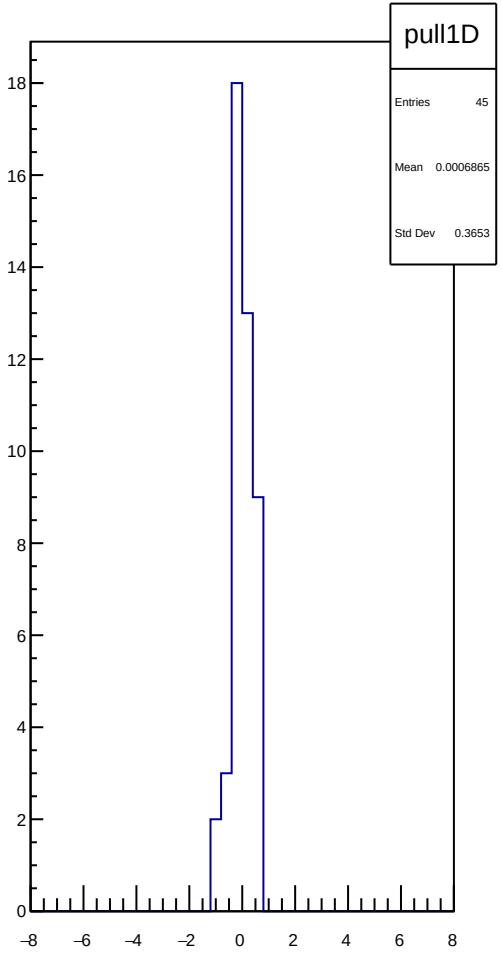

yield_bpm2i01WS_rms vs run
χ² / ndf 1.495e+04 / 44
p0 148.4 ± 0.1571
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

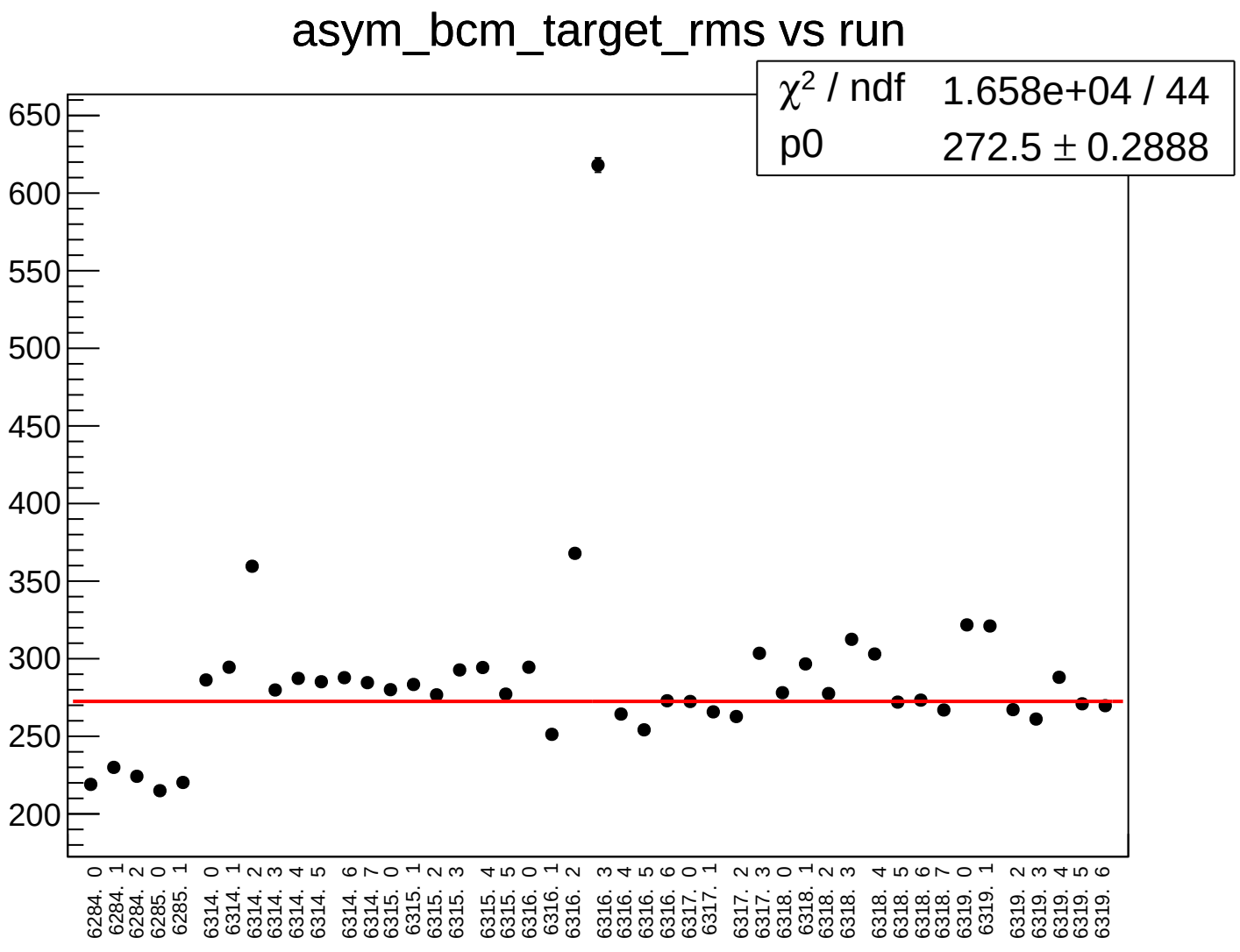

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.137e+07 / 44
p0 1.584e+05 ± 0.2311
159
158.5
158
157.5
157
156.5
156
155.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 217
Std Dev 0
500
0
−500
−1000
−1500
−2000

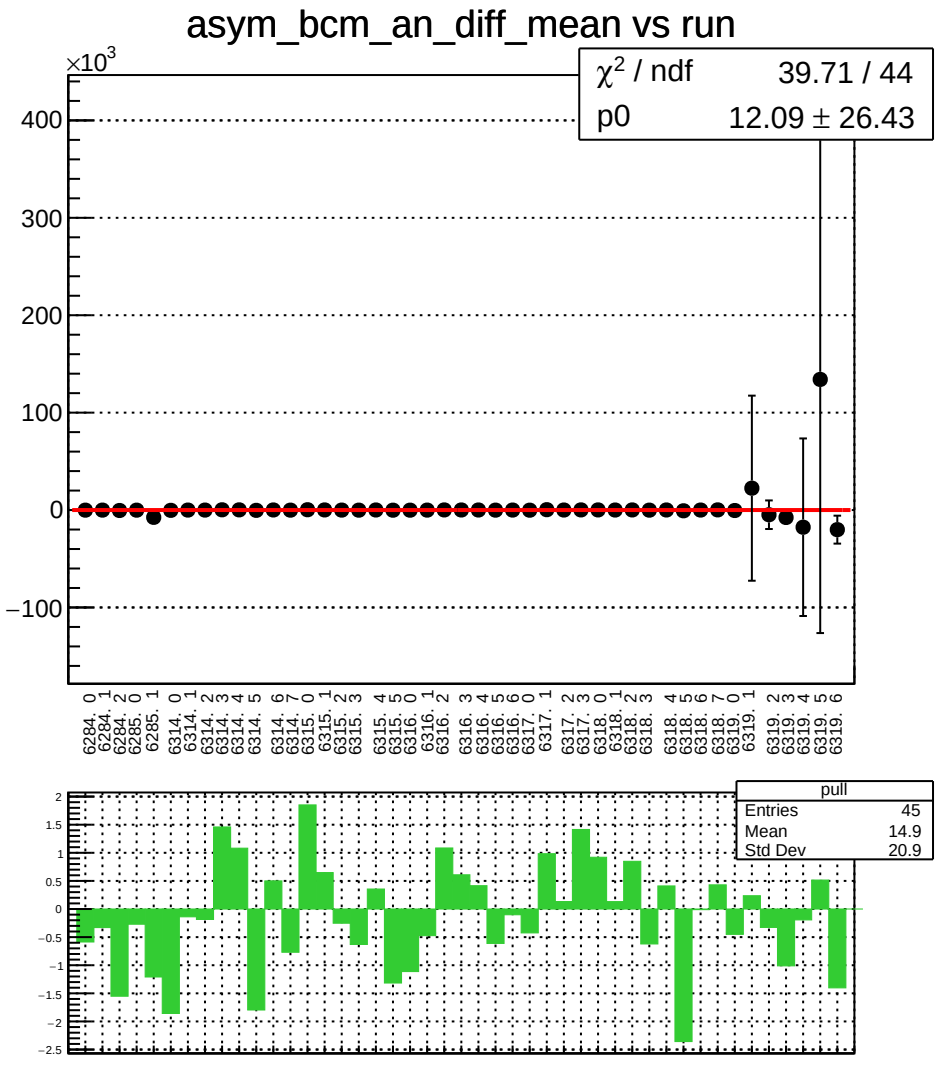

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

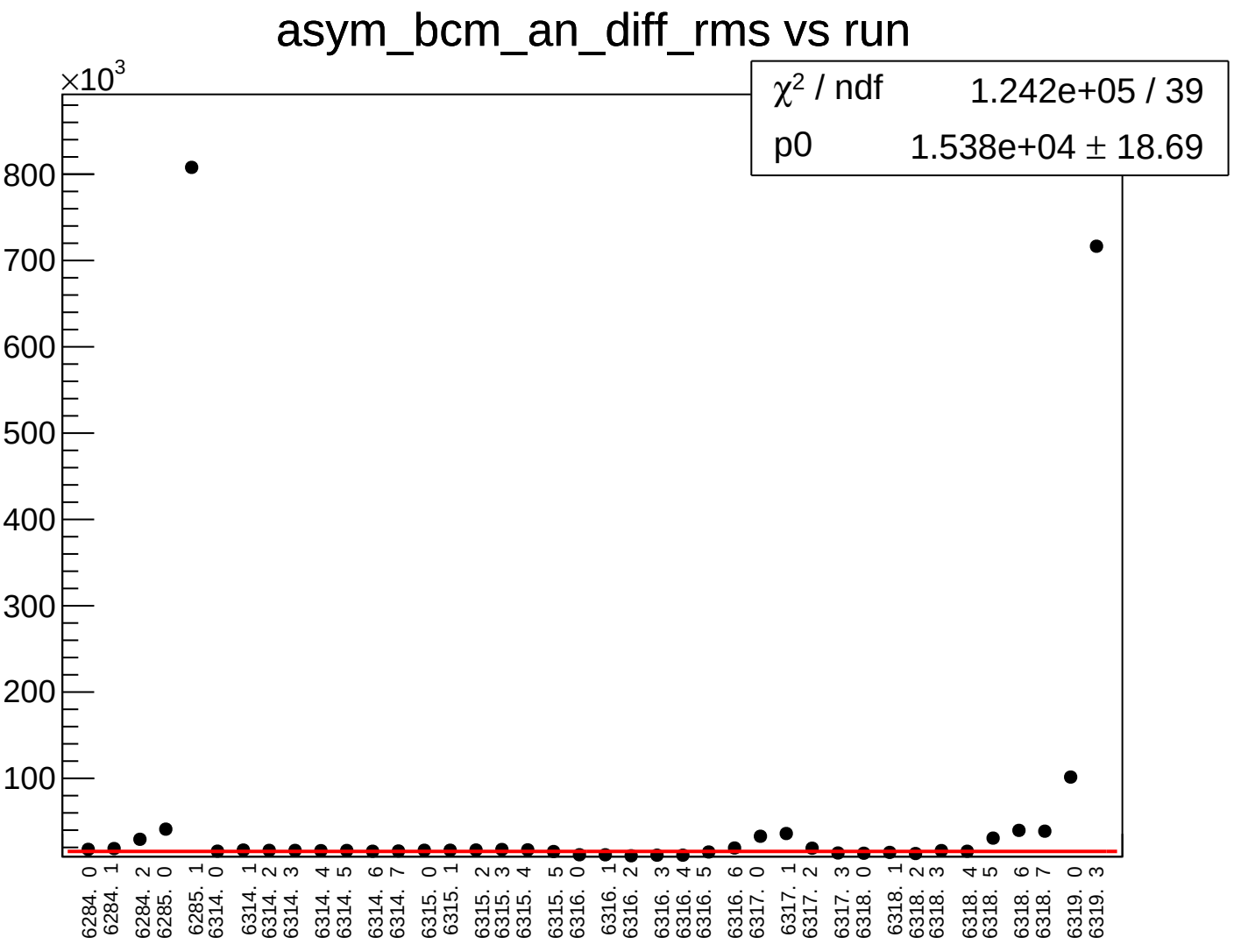

yield_bpm2i02WS_rms vs run
χ² / ndf 1.596e+04 / 44
p0 154.2 ± 0.1634
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

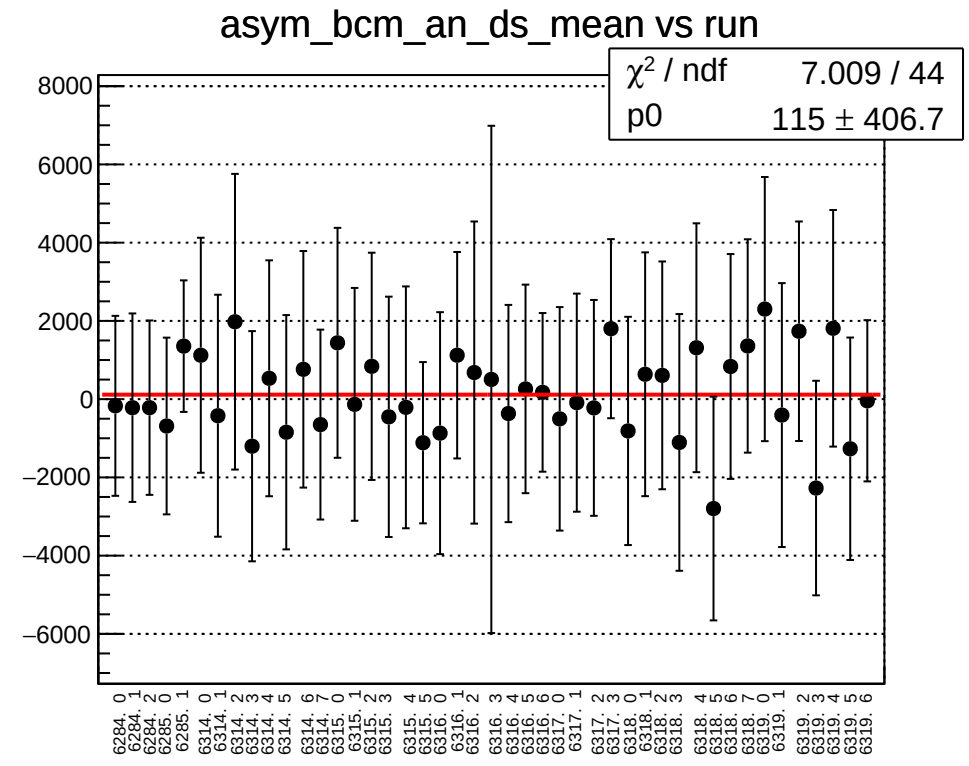

asym_bcm_target_mean vs run
χ² / ndf 6.005 / 44
p0 99.88 ± 408.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −127.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

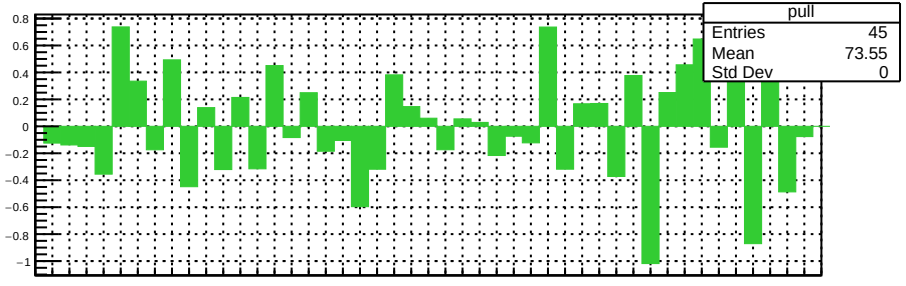

pull1D
Entries 45
Mean 0.0006865
Std Dev 0.3653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

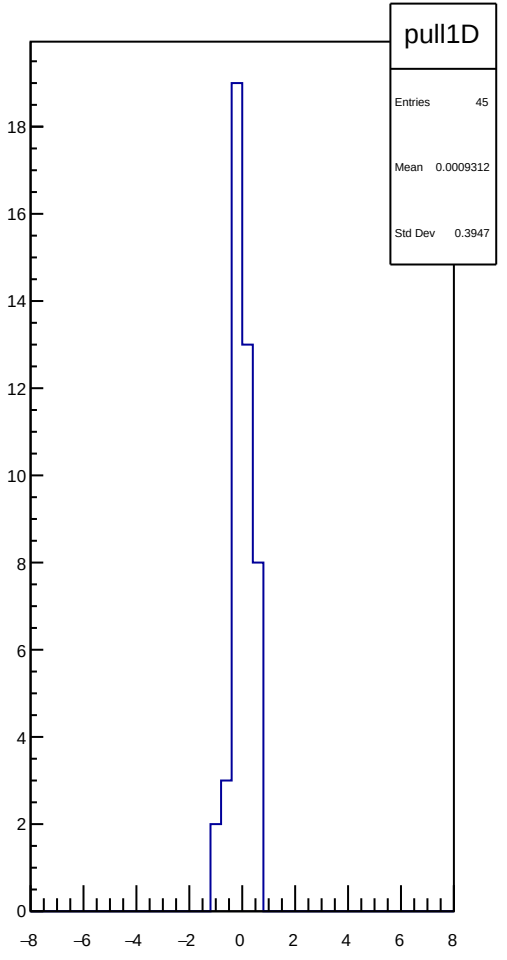

asym_bcm_target_rms vs run
χ² / ndf 1.658e+04 / 44
p0 272.5 ± 0.2888
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

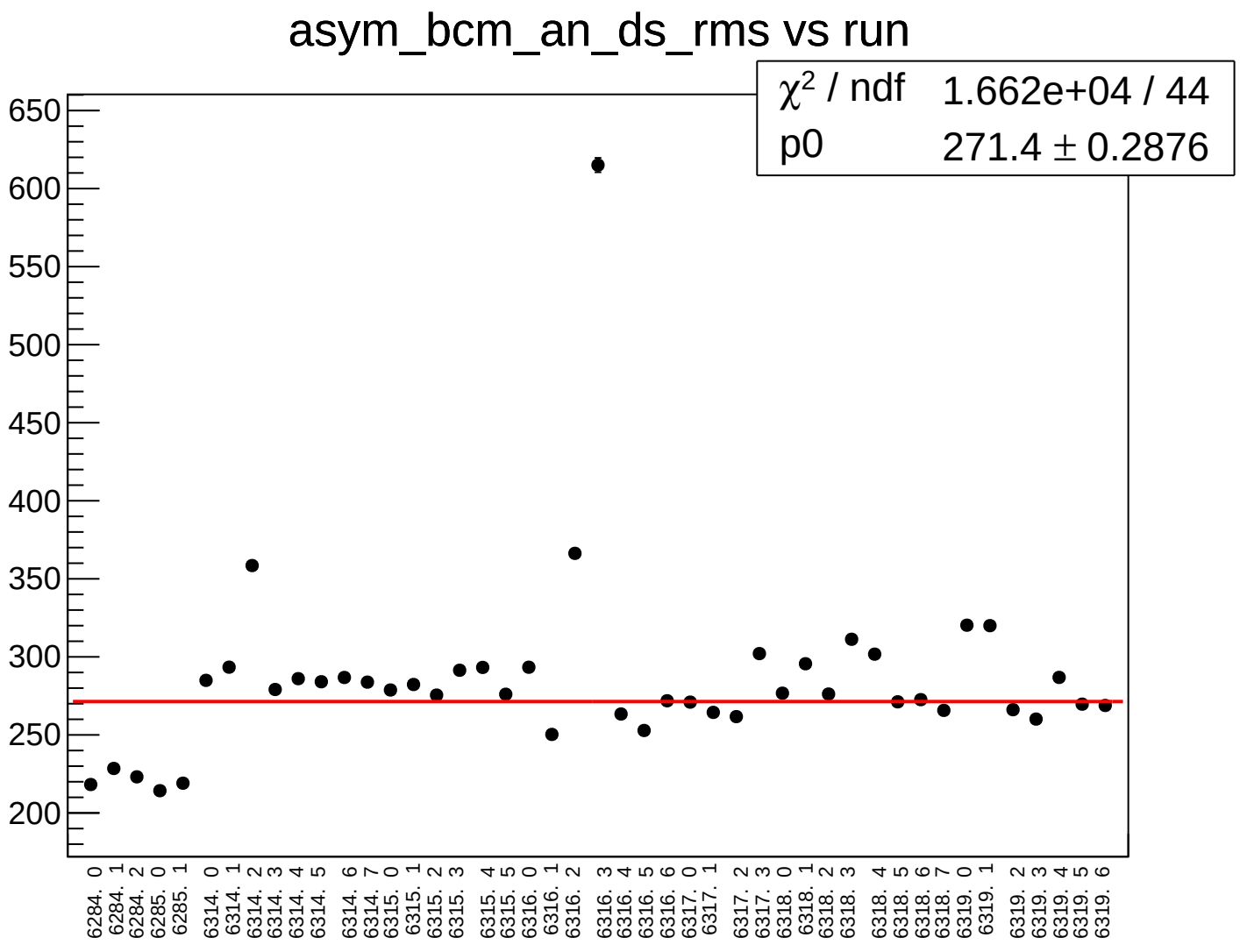

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 39.71 / 44
p0 12.09 ± 26.43
400
300
200
100
0
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 14.9
Std Dev 20.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.1325
Std Dev 0.93
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

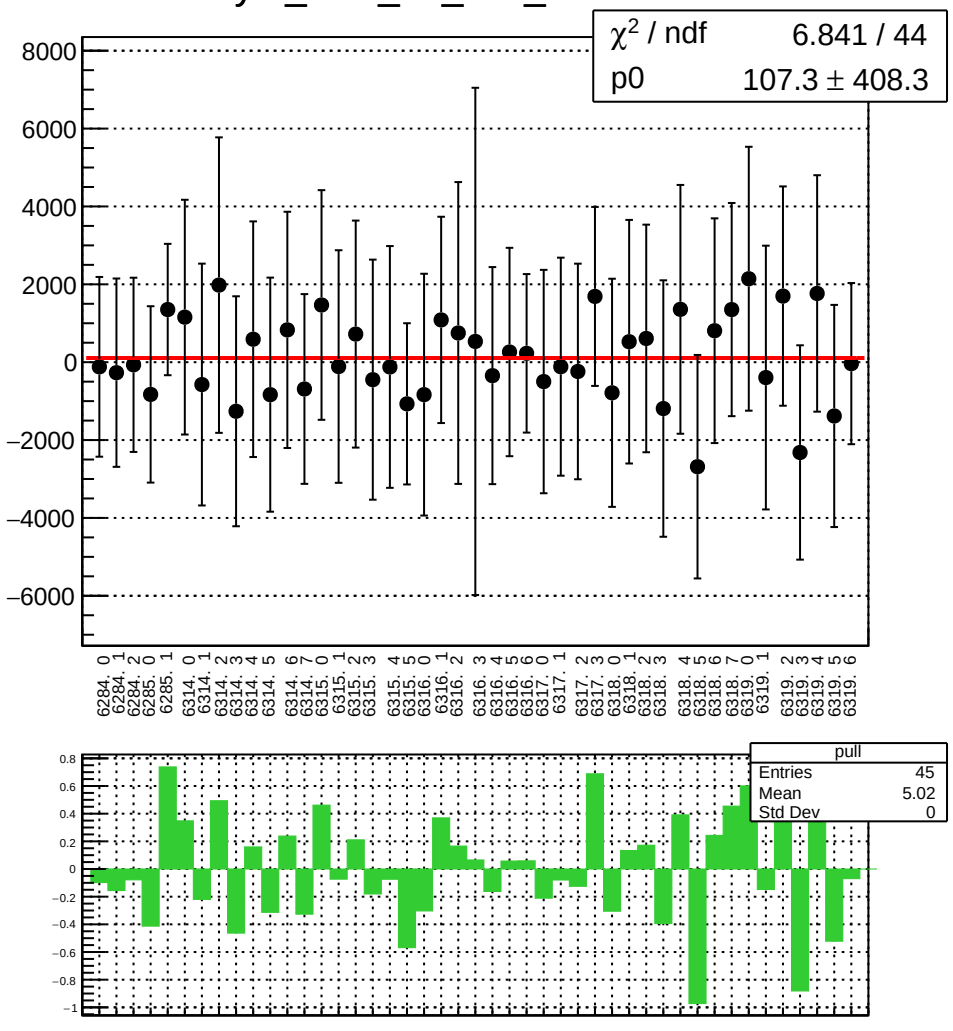

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.242e+05 / 39
p0 1.538e+04 ± 18.69
800
700
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 3

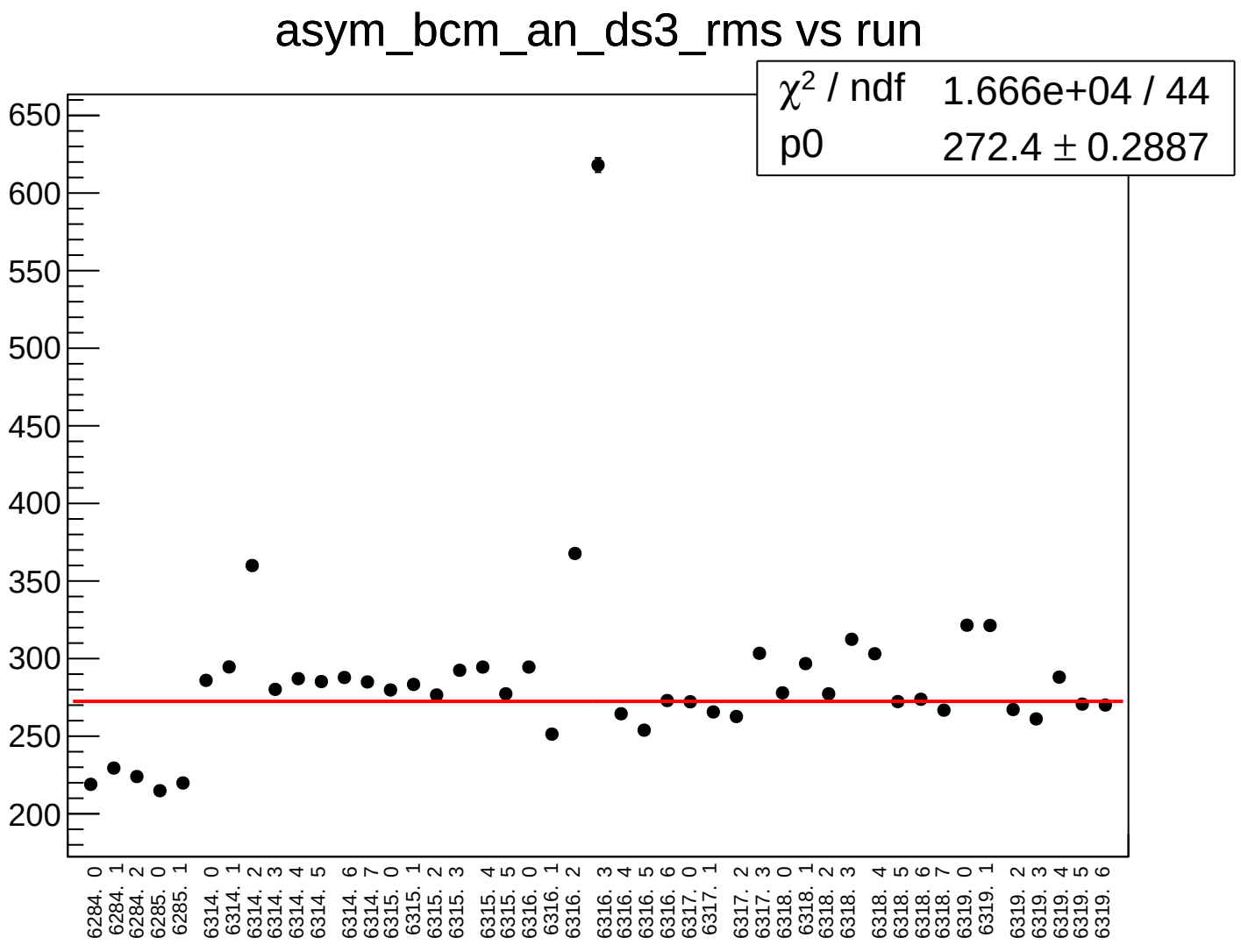

asym_bcm_an_ds_mean vs run
χ² / ndf 7.009 / 44
p0 115 ± 406.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

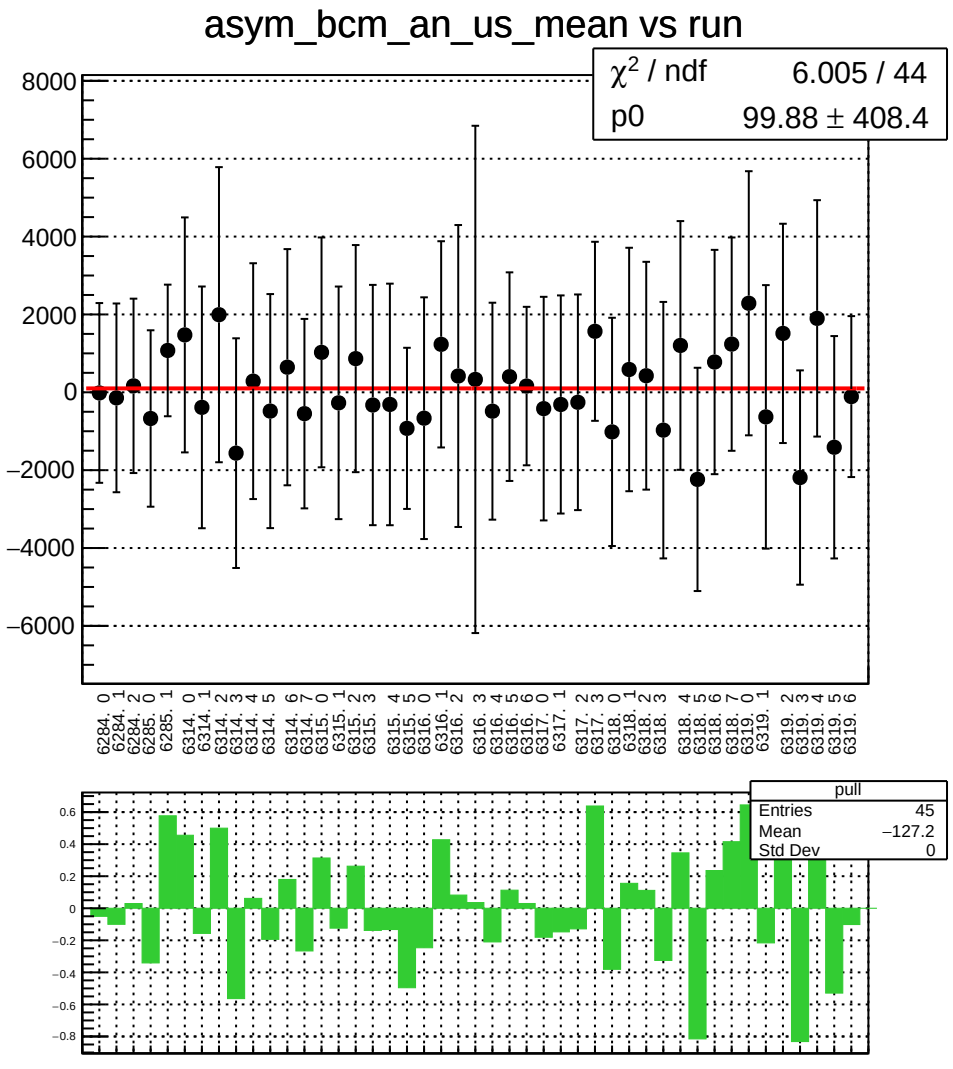

pull
Entries 45
Mean 73.55
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

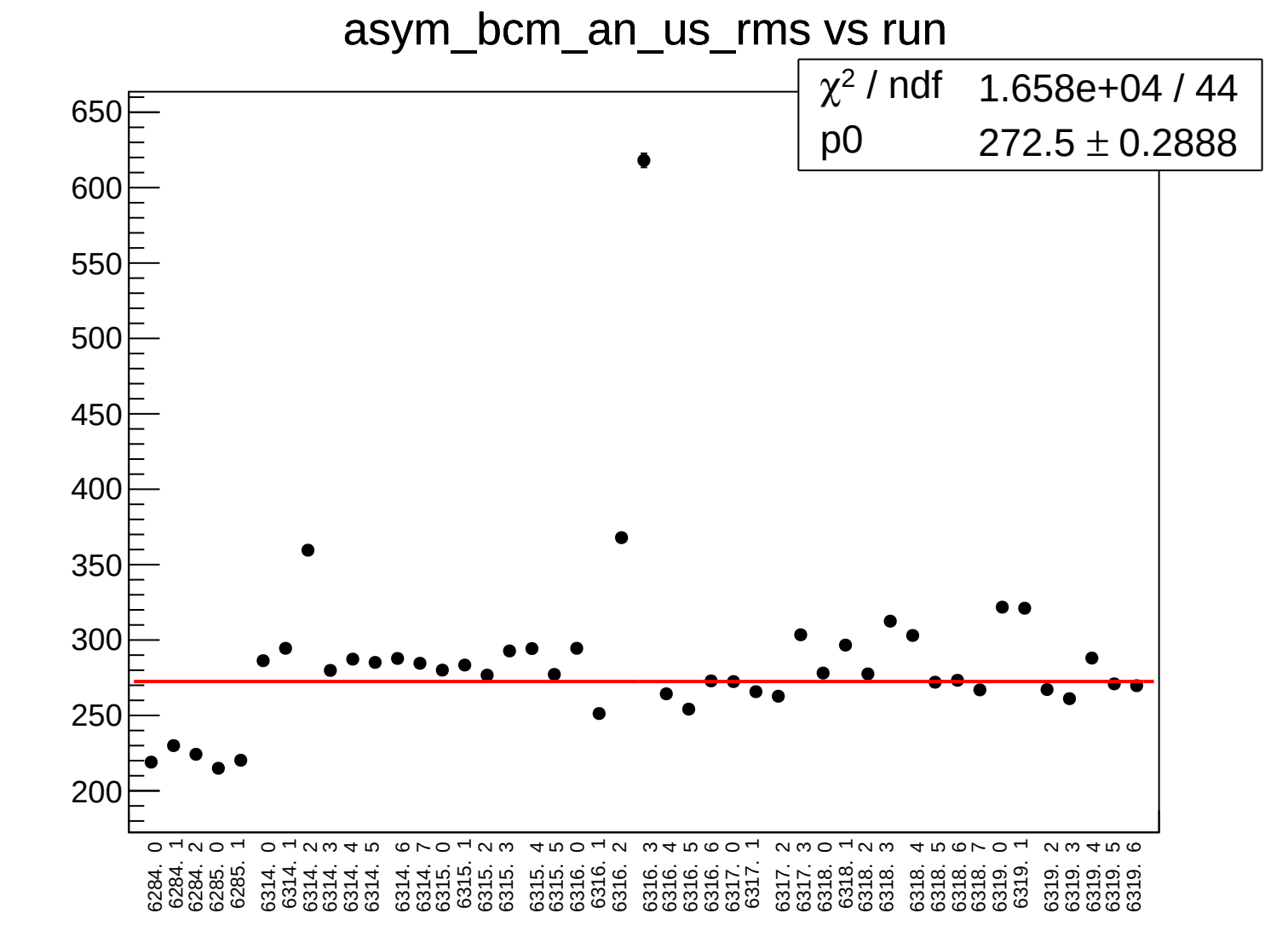

pull1D
Entries 45
Mean 0.0009312
Std Dev 0.3947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

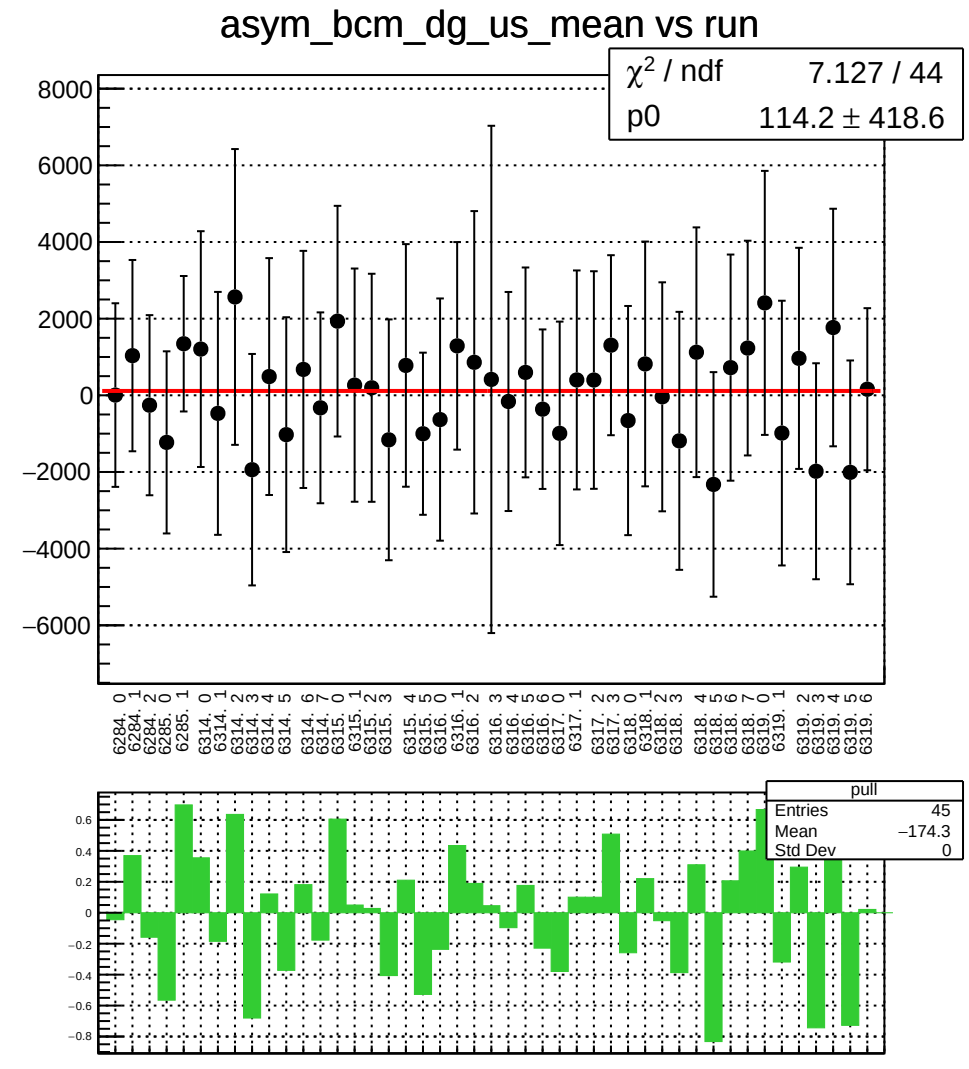

asym_bcm_an_ds_rms vs run
χ² / ndf 1.662e+04 / 44
p0 271.4 ± 0.2876
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

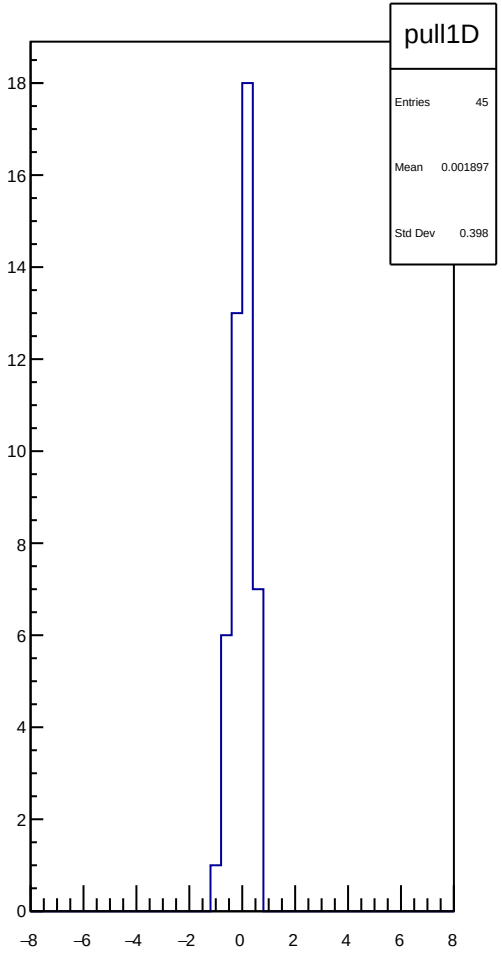

asym_bcm_an_ds3_mean vs run
χ² / ndf 6.841 / 44
p0 107.3 ± 408.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5.02
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.0005527
Std Dev 0.3899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

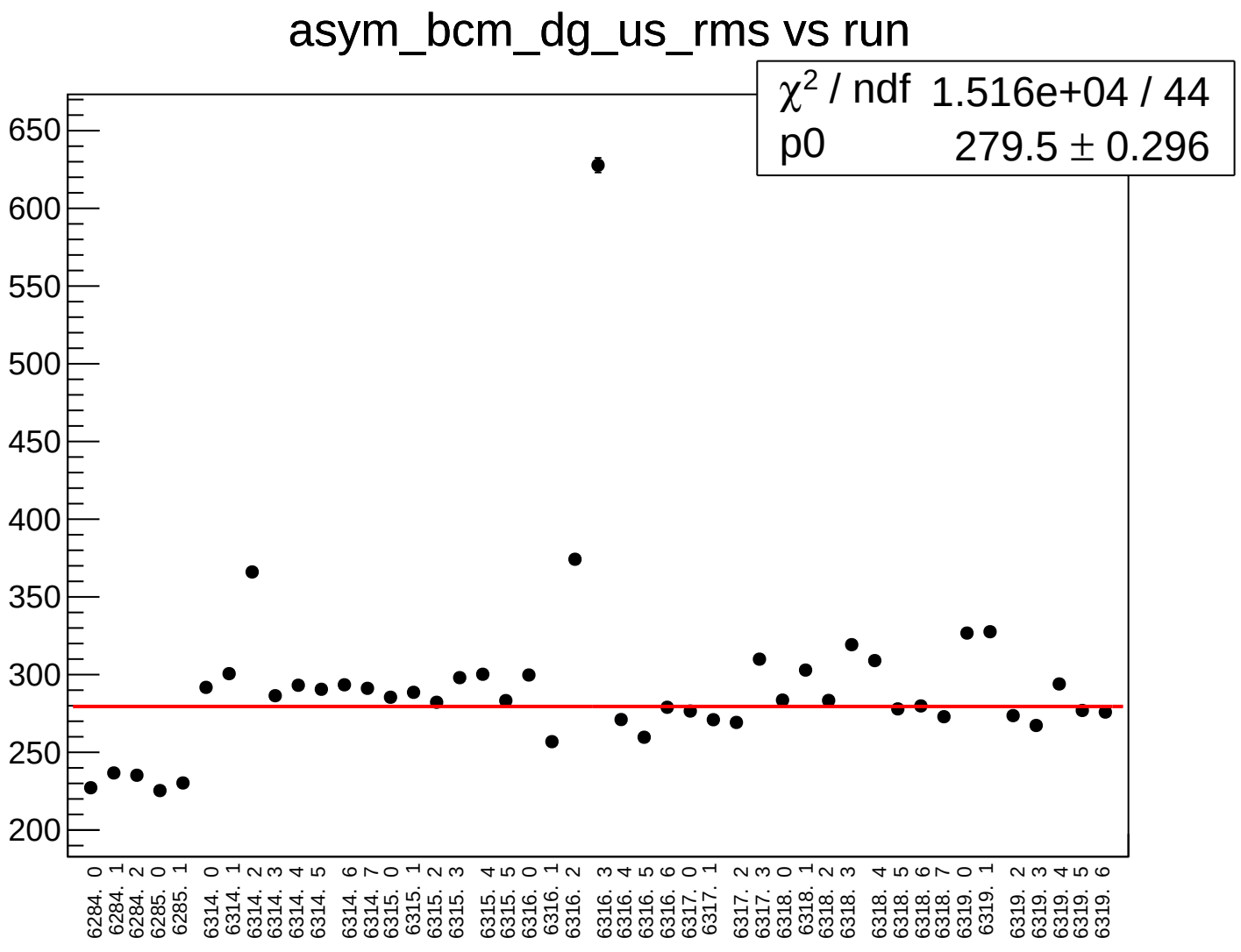

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.666e+04 / 44
p0 272.4 ± 0.2887
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

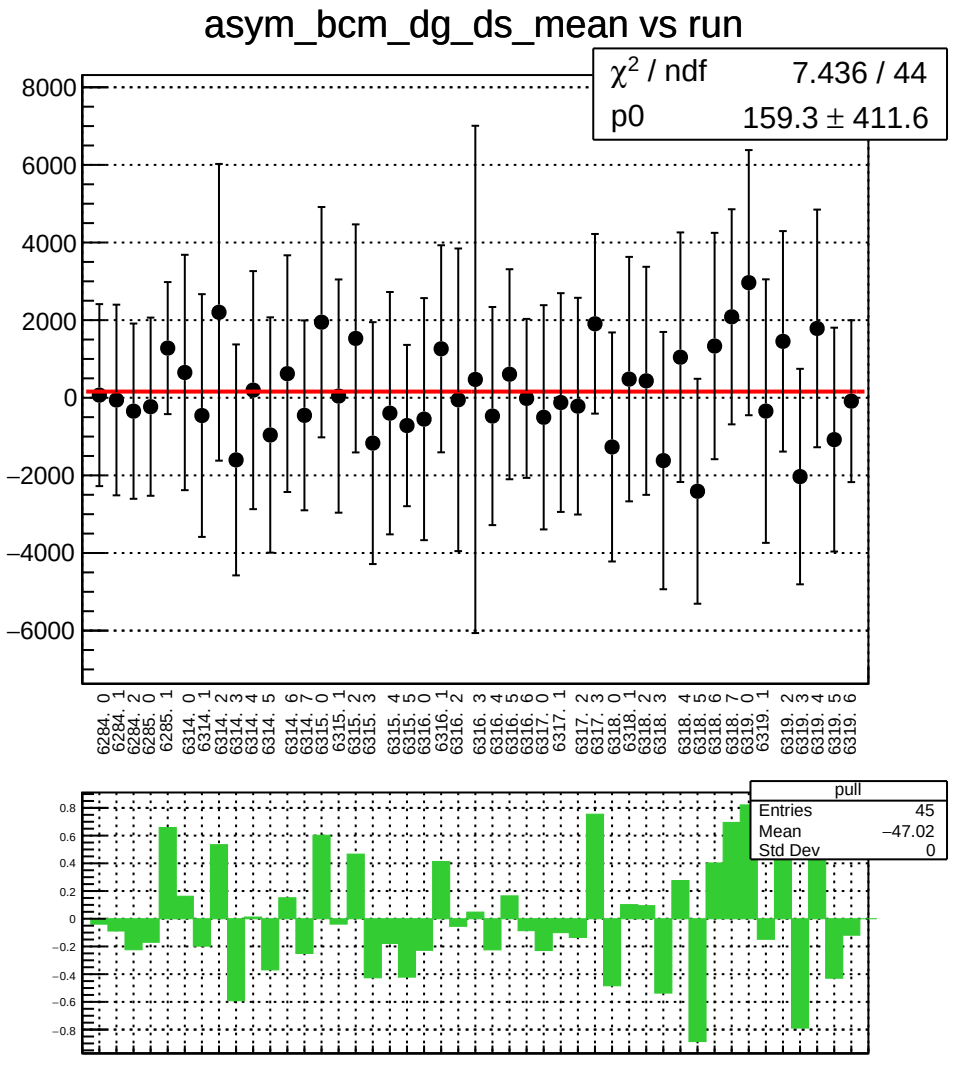

asym_bcm_an_us_mean vs run
χ² / ndf 6.005 / 44
p0 99.88 ± 408.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −127.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0006865
Std Dev 0.3653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

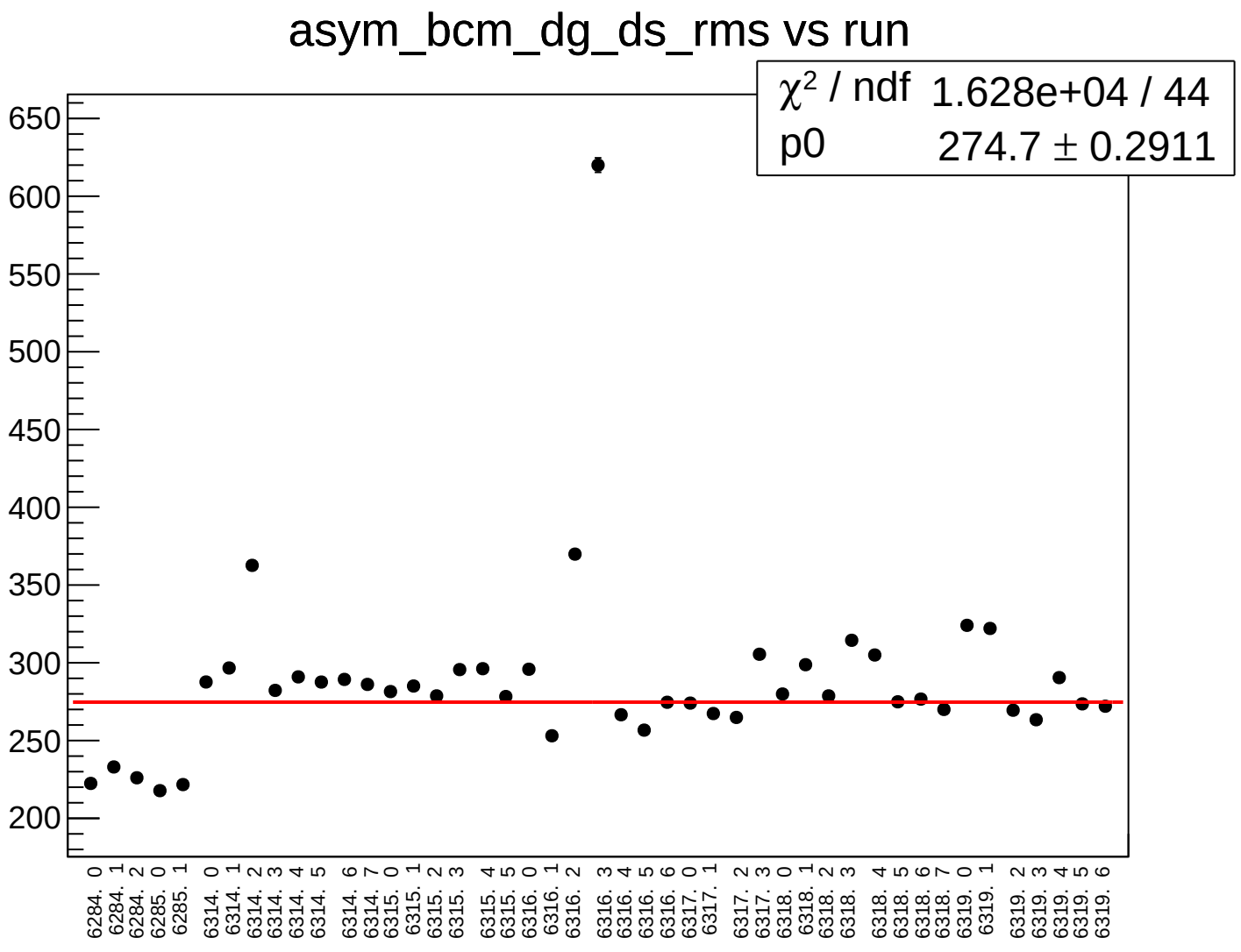

asym_bcm_an_us_rms vs run
χ² / ndf 1.658e+04 / 44
p0 272.5 ± 0.2888
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

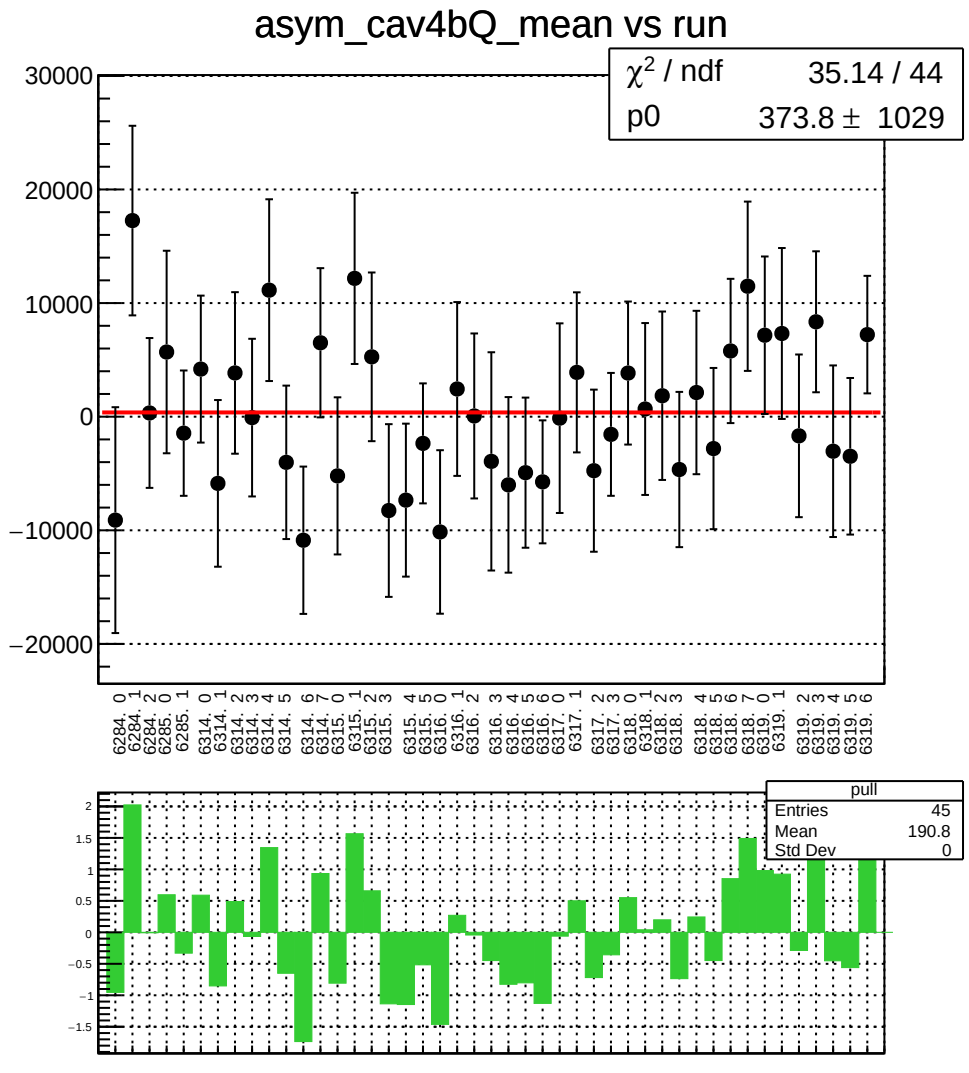

asym_bcm_dg_us_mean vs run
χ² / ndf 7.127 / 44
p0 114.2 ± 418.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −174.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

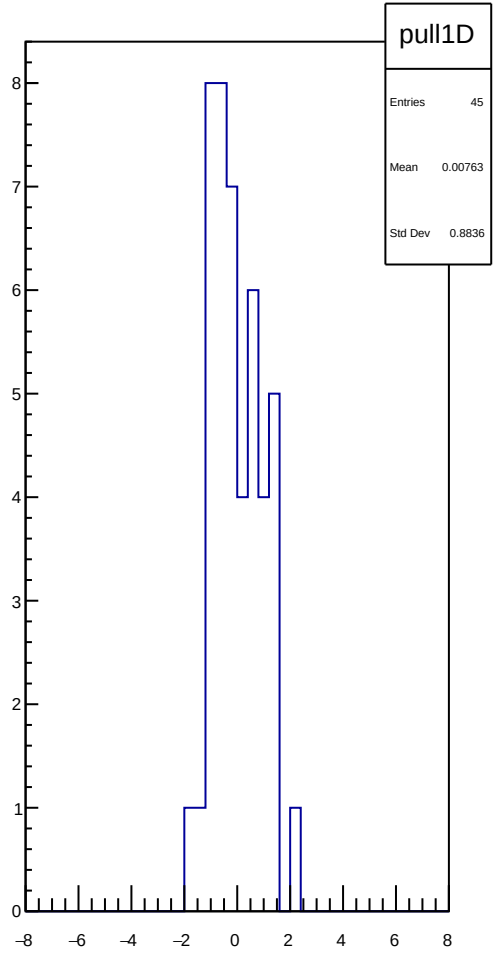

pull1D
Entries 45
Mean 0.001897
Std Dev 0.398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

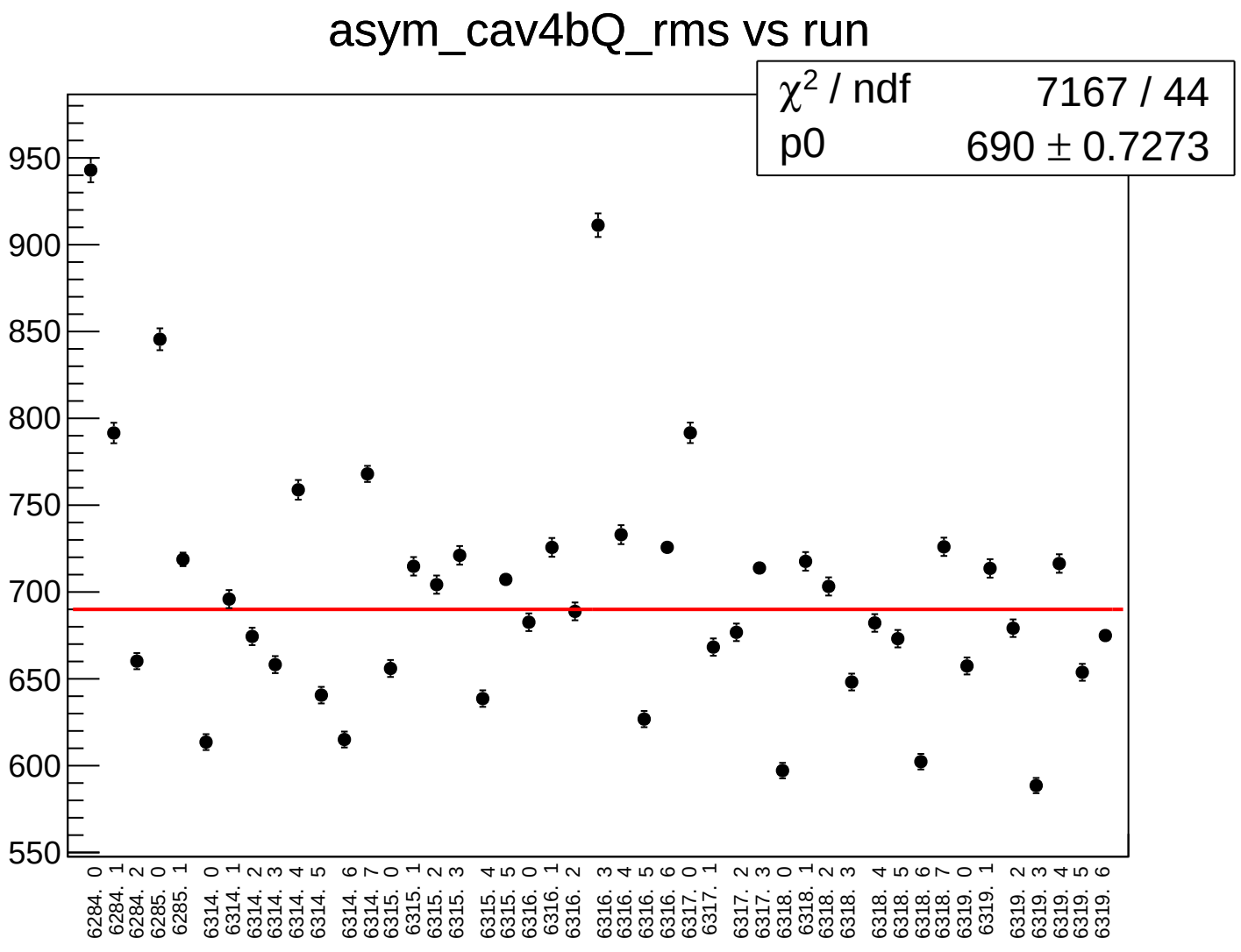

asym_bcm_dg_us_rms vs run
χ² / ndf 1.516e+04 / 44
p0 279.5 ± 0.296
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

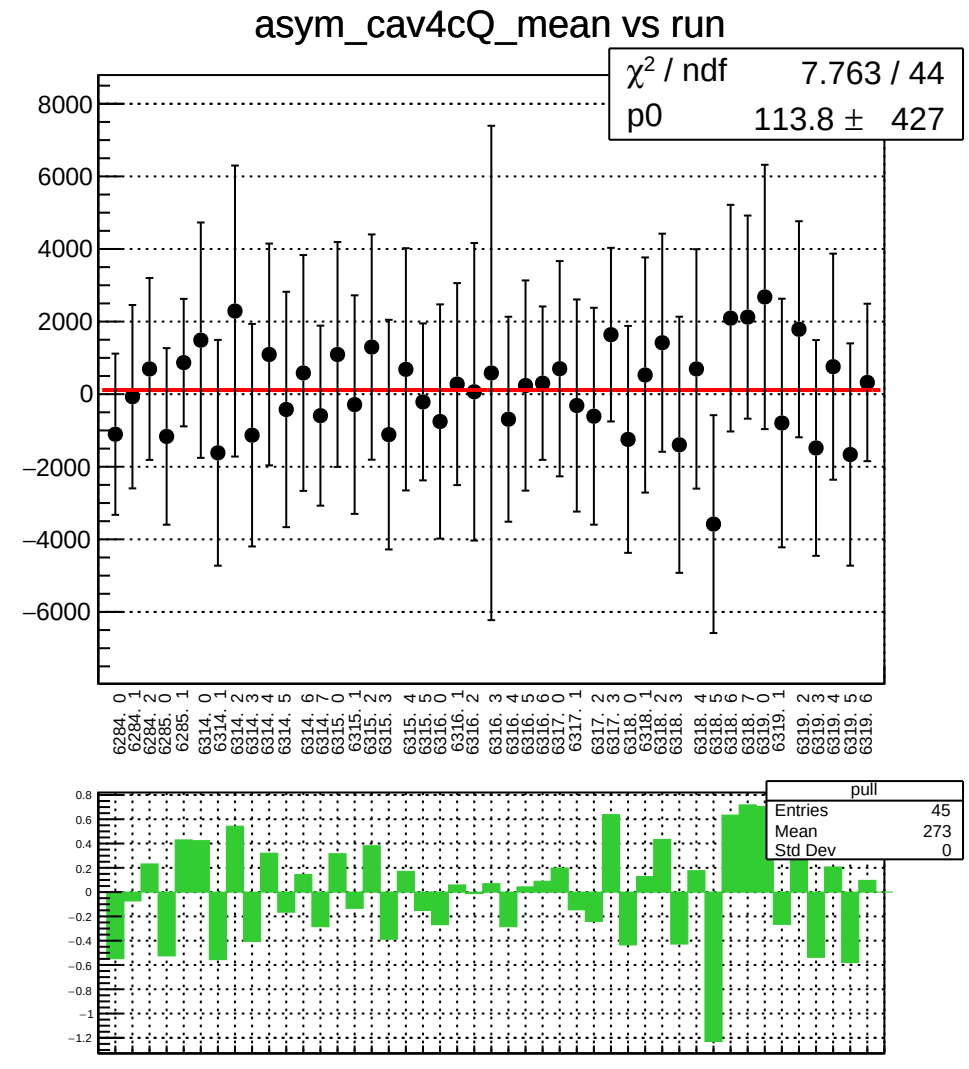

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.436 / 44
p0 159.3 ± 411.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −47.02
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.002137
Std Dev 0.4065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

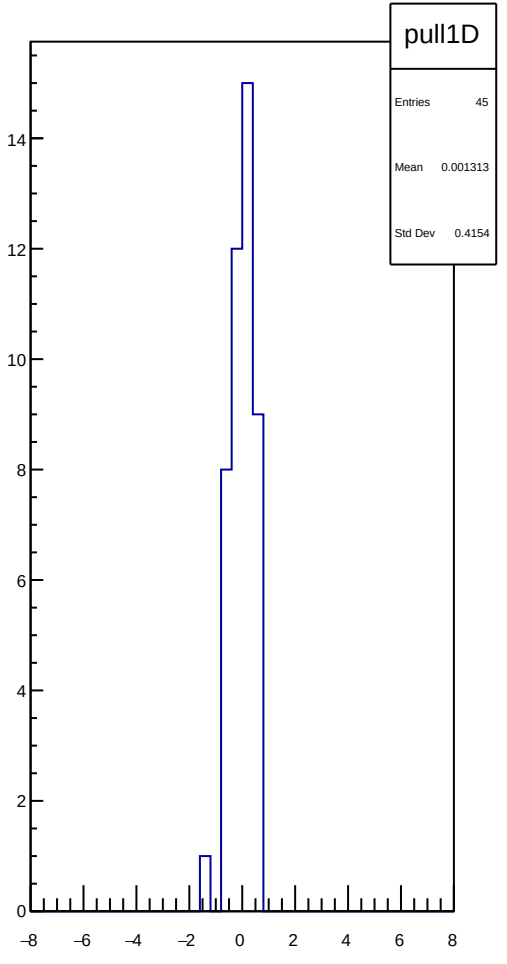

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.628e+04 / 44
p0 274.7 ± 0.2911
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

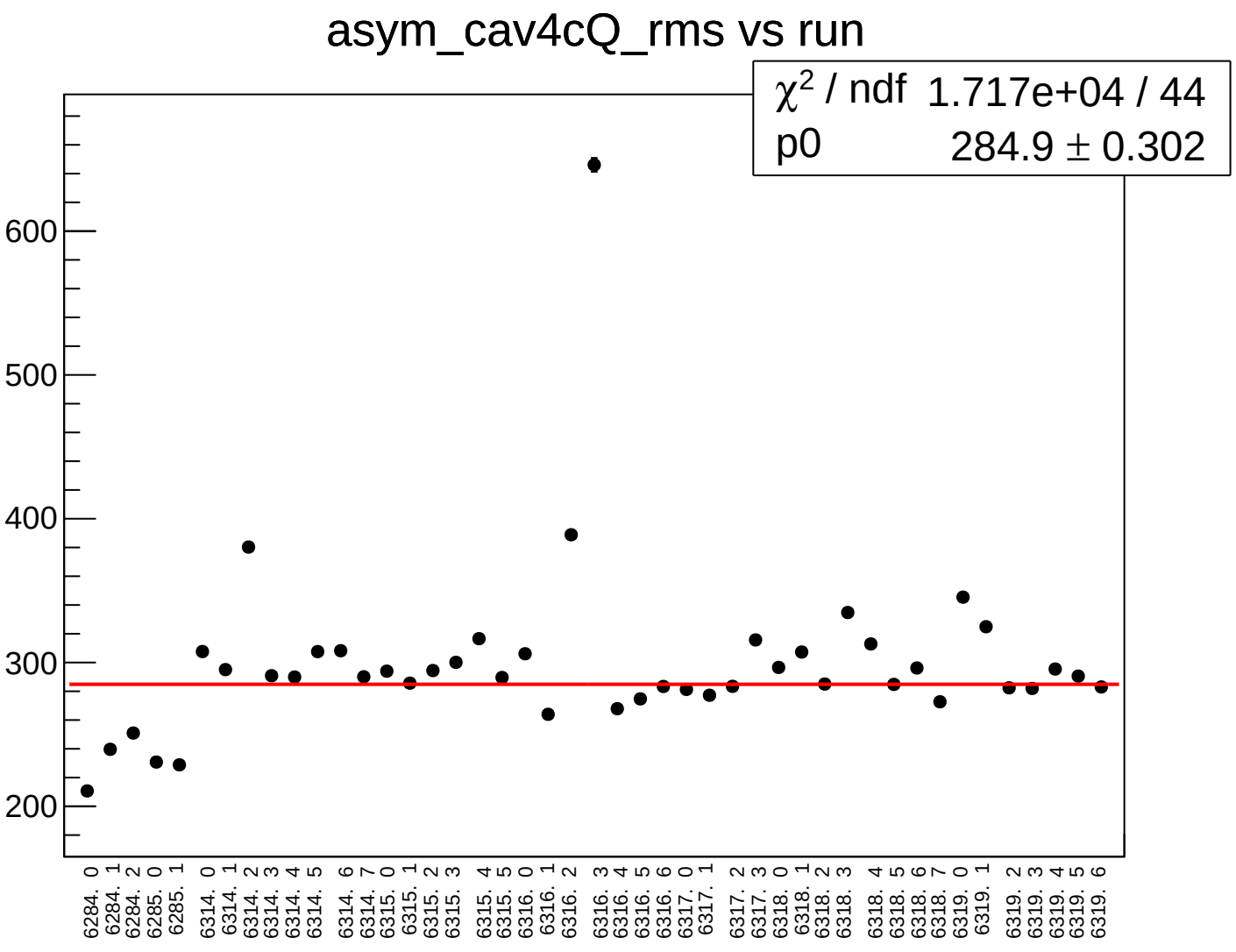

asym_cav4bQ_mean vs run
χ² / ndf 35.14 / 44
p0 373.8 ± 1029
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 190.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

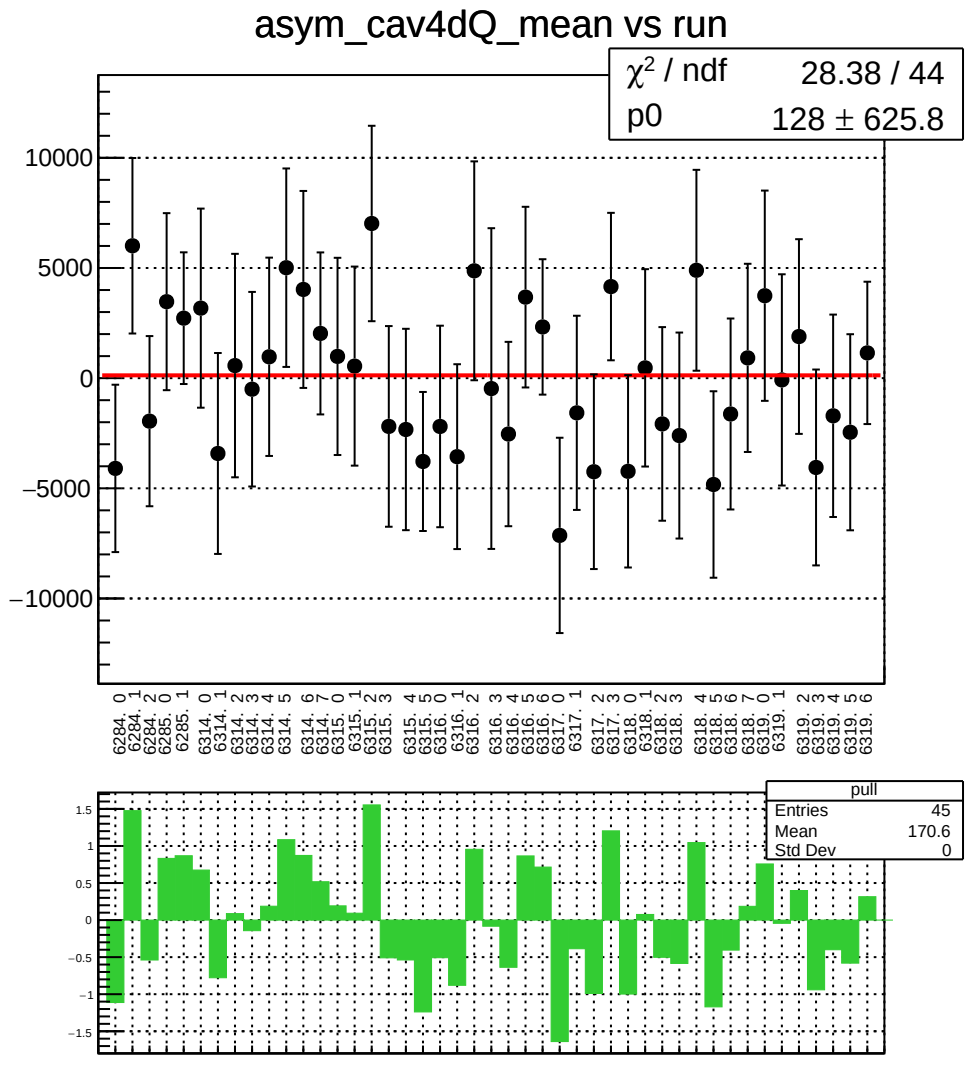

pull1D
Entries 45
Mean 0.00763
Std Dev 0.8836
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4bQ_rms vs run
χ^2 / ndf 7167 / 44
p0 690 ± 0.7273
950
900
850
800
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_cav4cQ_mean vs run
χ² / ndf 7.763 / 44
p0 113.8 ± 427
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 273
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2


pull1D
Entries 45
Mean 0.001313
Std Dev 0.4154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ^2 / ndf 1.717e+04 / 44
p0 284.9 ± 0.302
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_cav4dQ_mean vs run
χ² / ndf 28.38 / 44
p0 128 ± 625.8
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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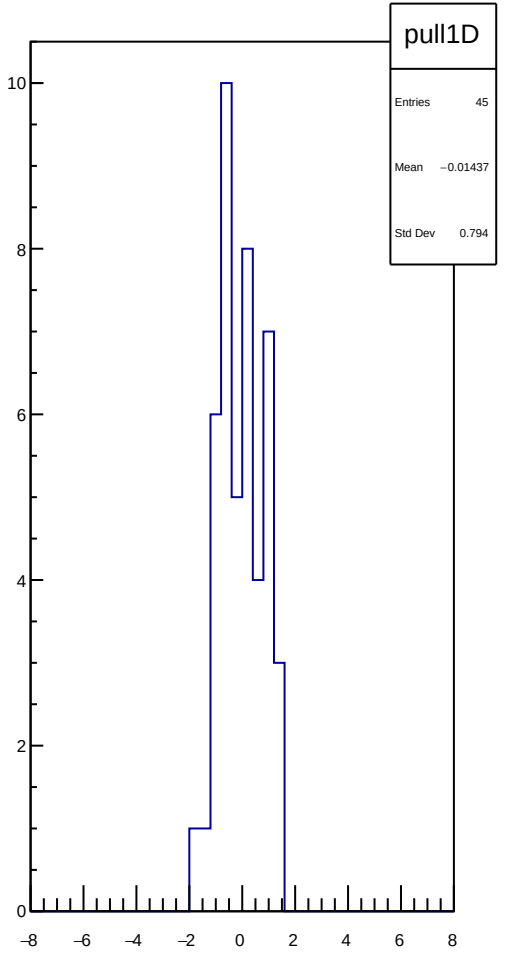
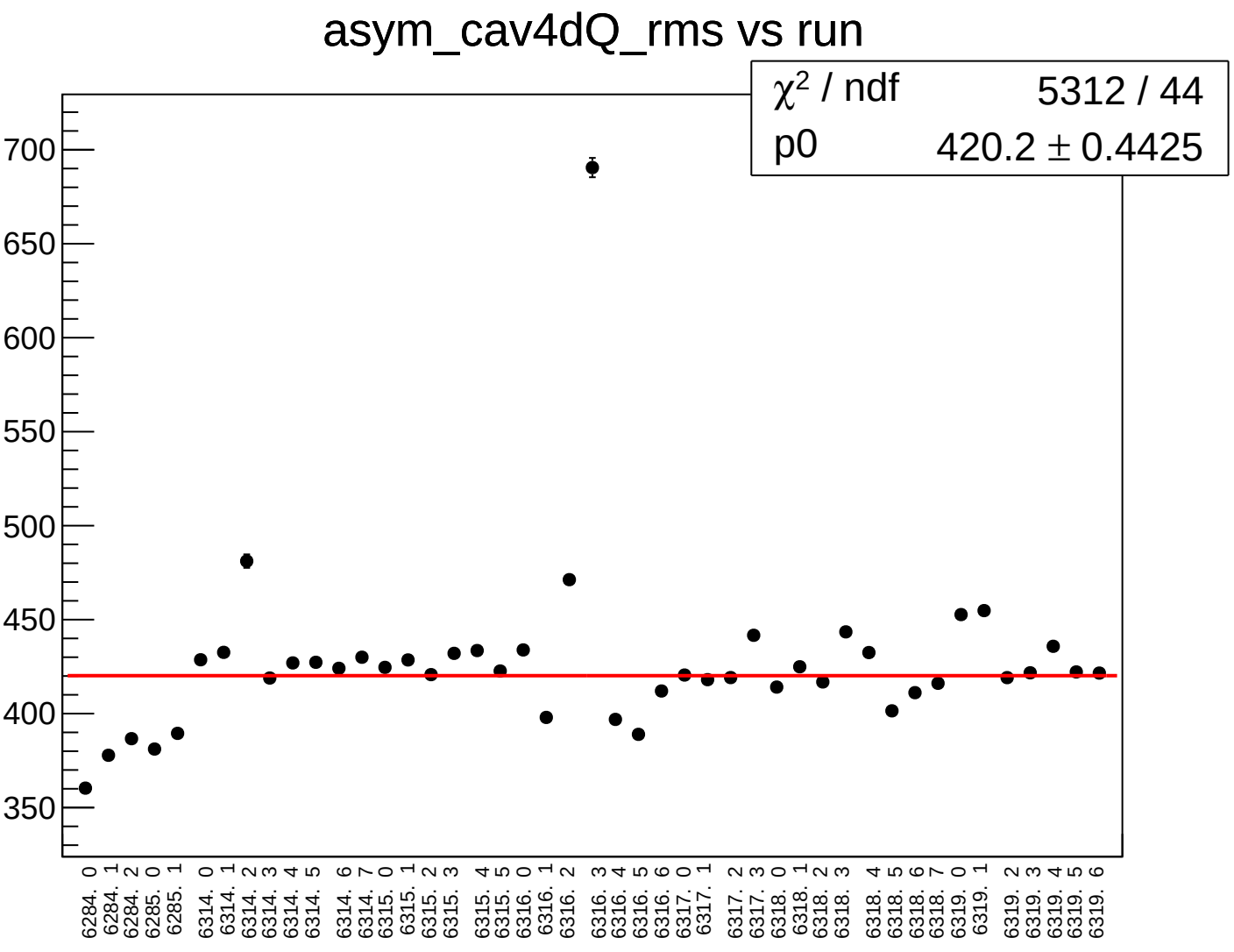
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 170.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01437
Std Dev 0.794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4dQ_rms vs run
χ² / ndf 5312 / 44
p0 420.2 ± 0.4425
700
650
600
550
500
450
400
350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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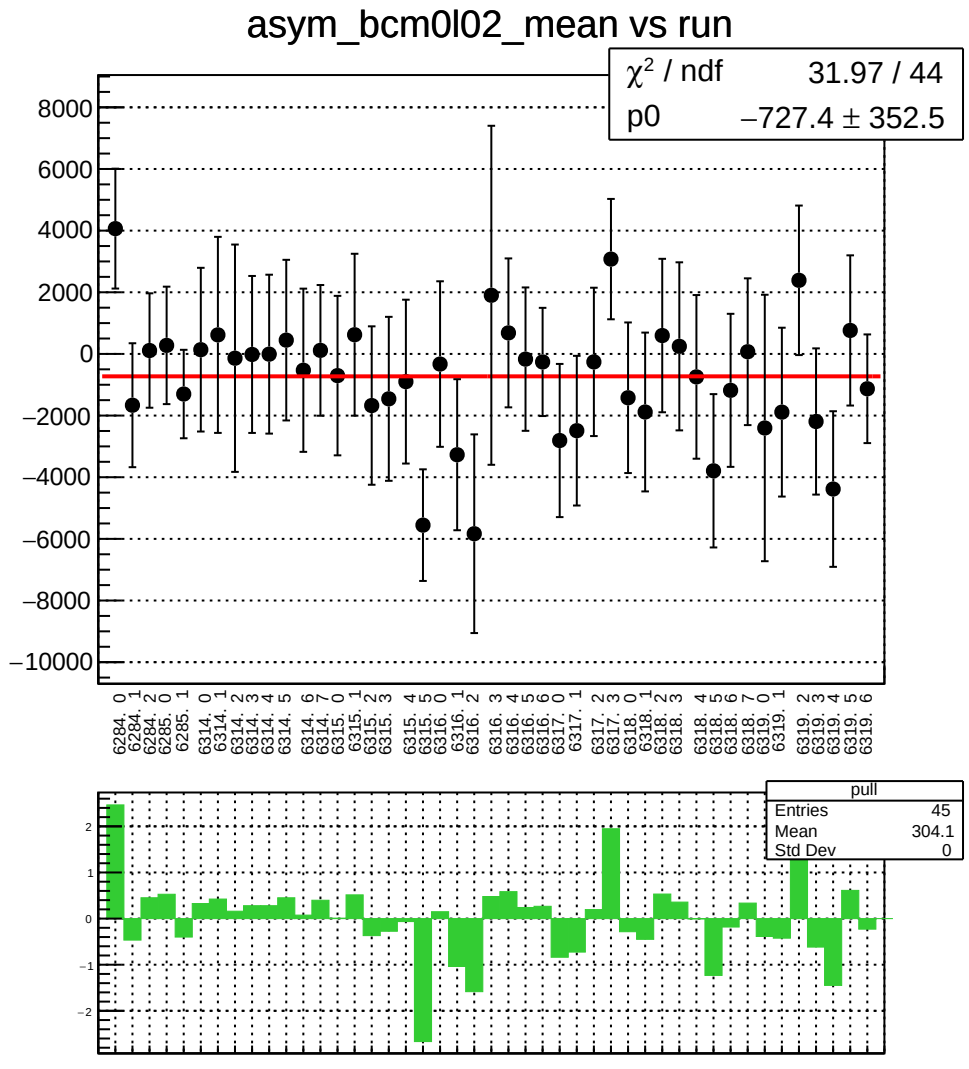
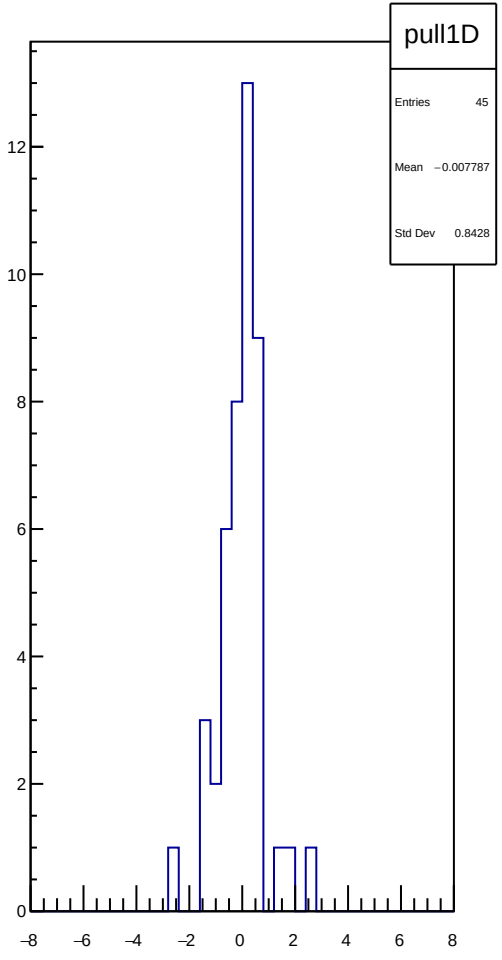
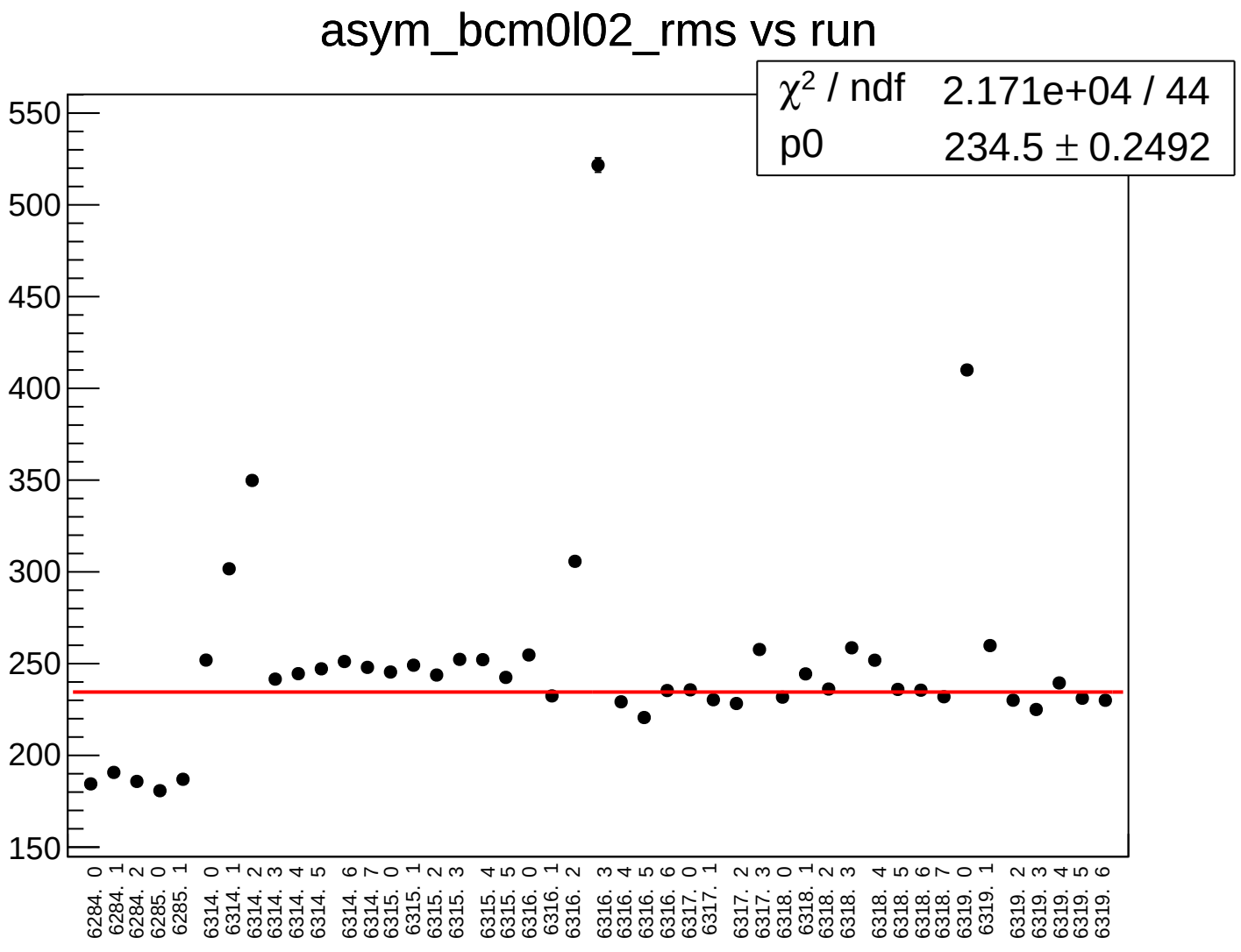
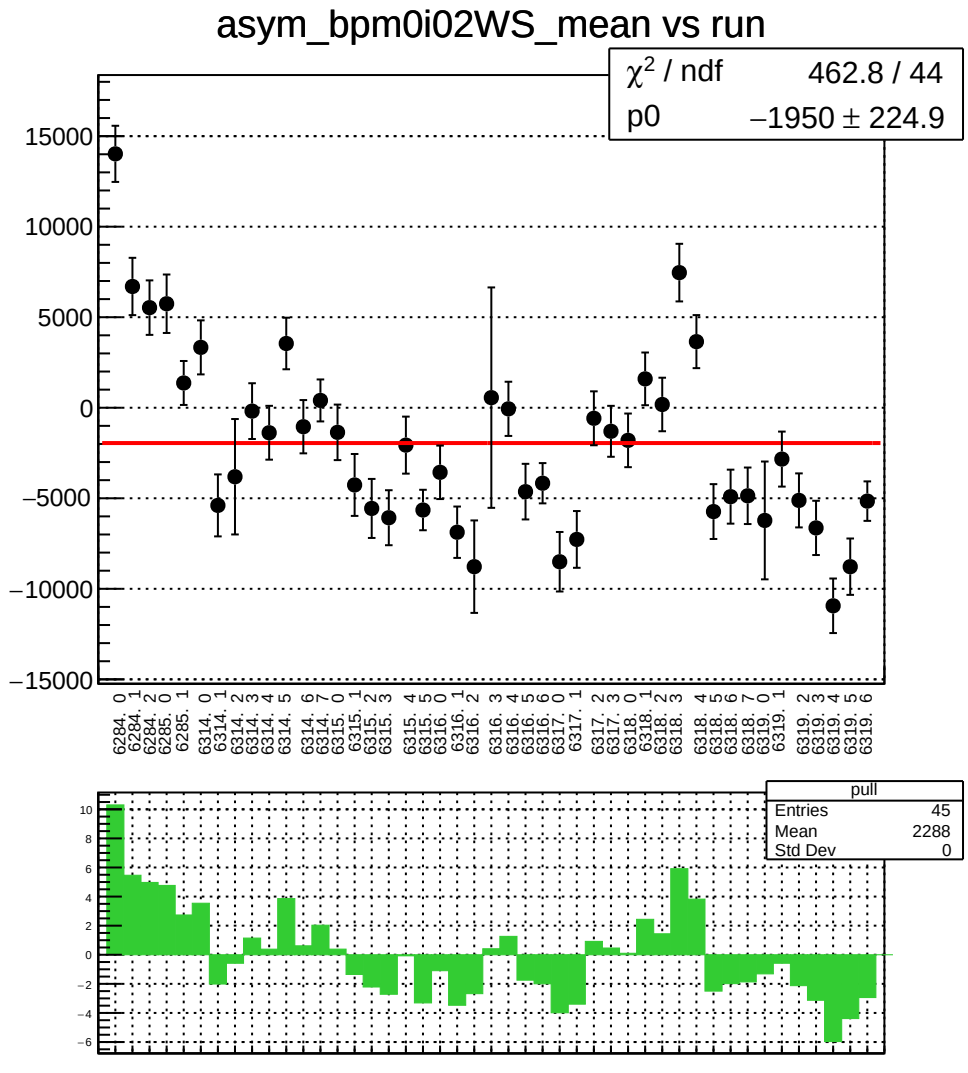
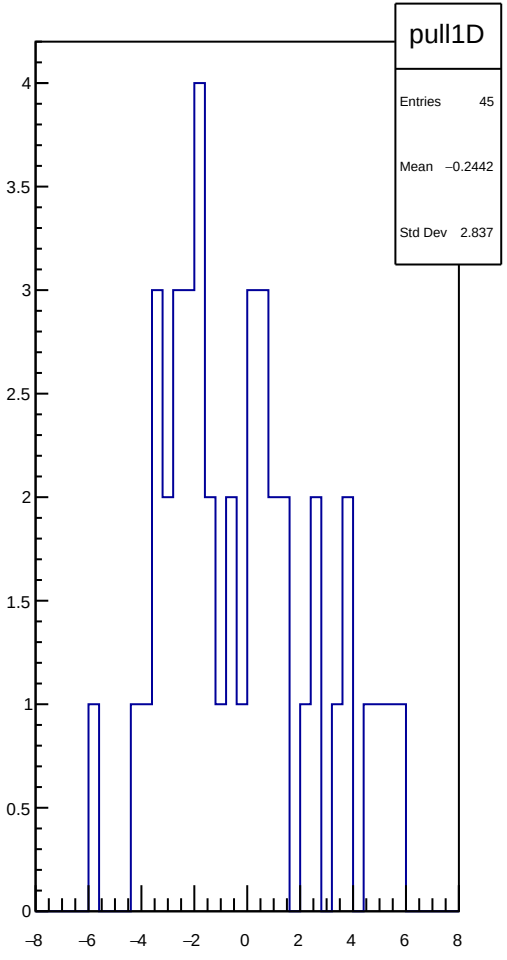
6319. 6

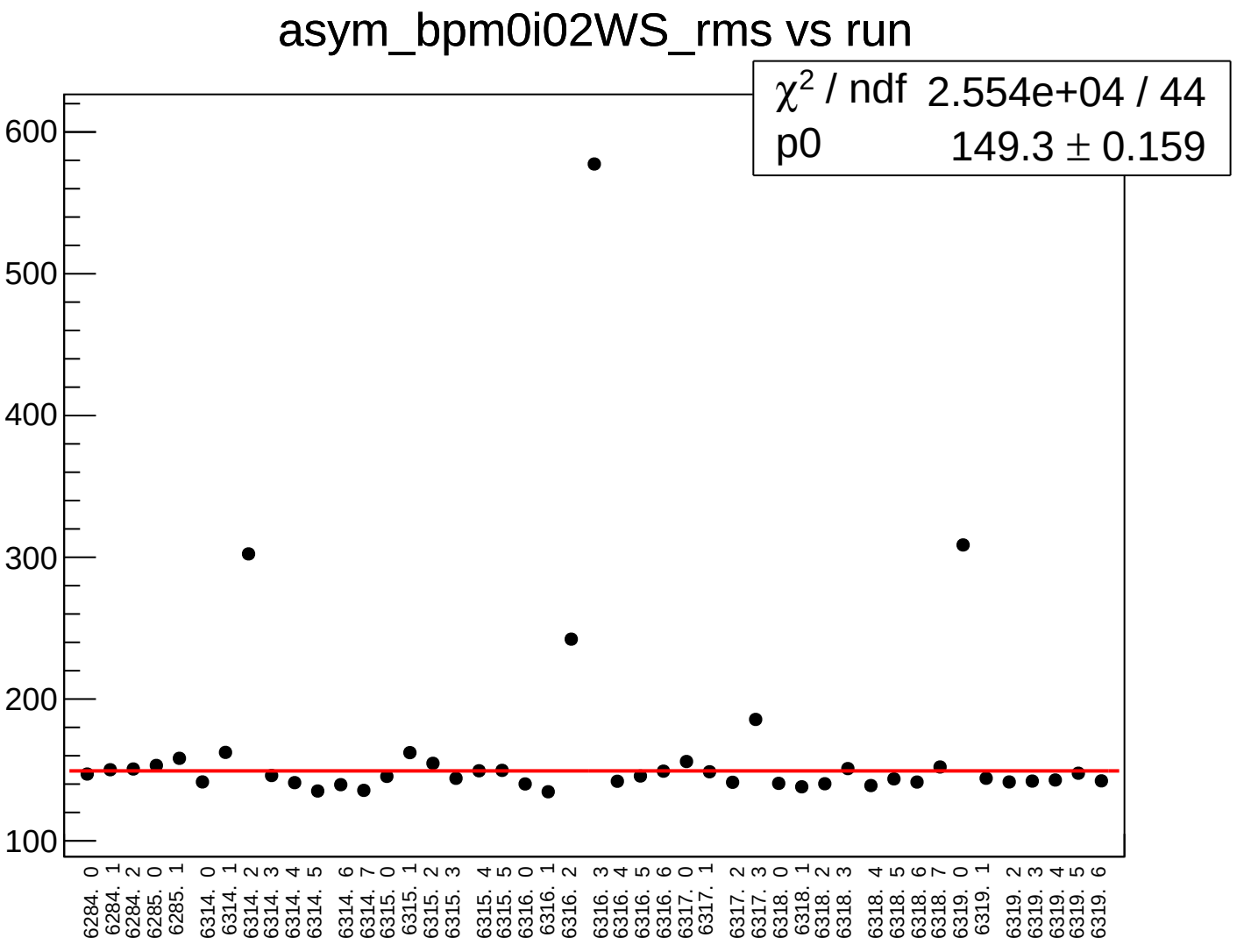

asym_bcm0l02_mean vs run
χ² / ndf 31.97 / 44
p0 −727.4 ± 352.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 304.1
Std Dev 0
2
1
0
−1
−2

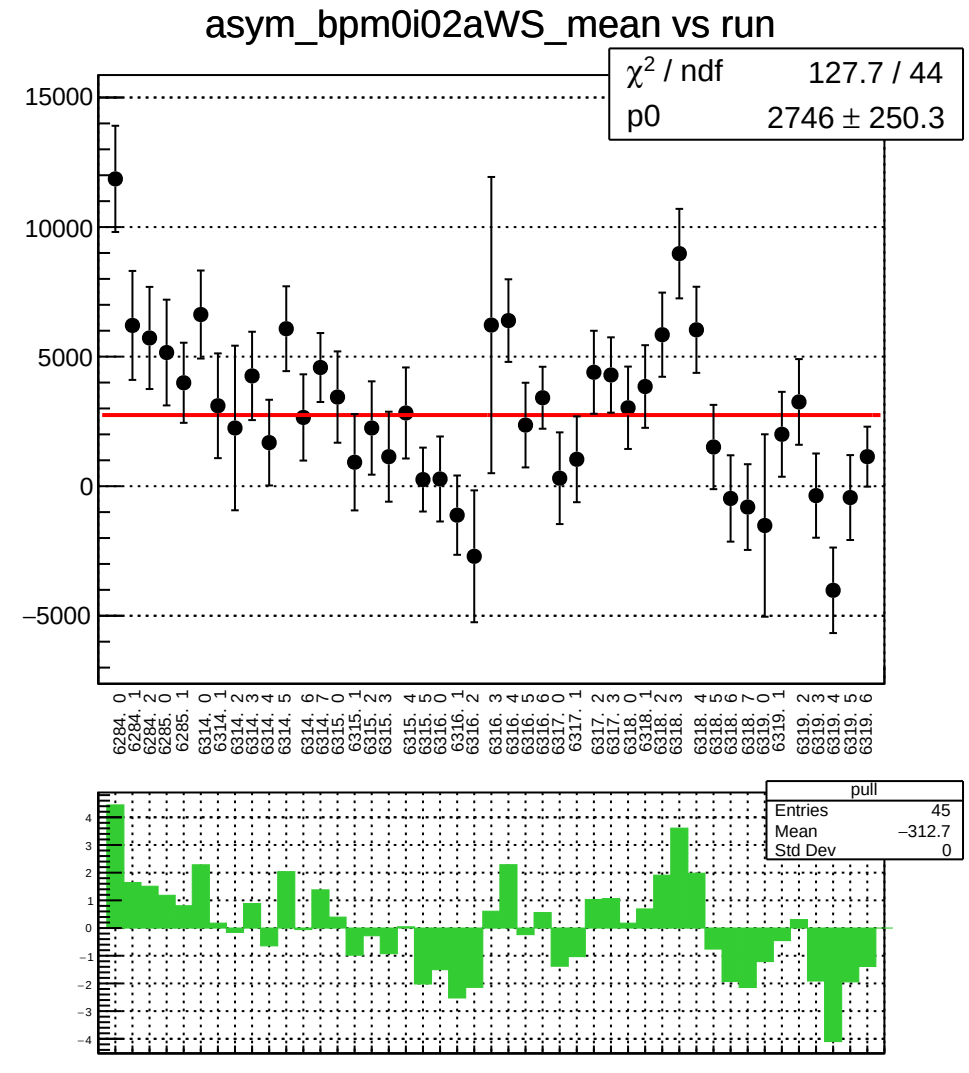

pull1D
Entries 45
Mean −0.007787
Std Dev 0.8428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

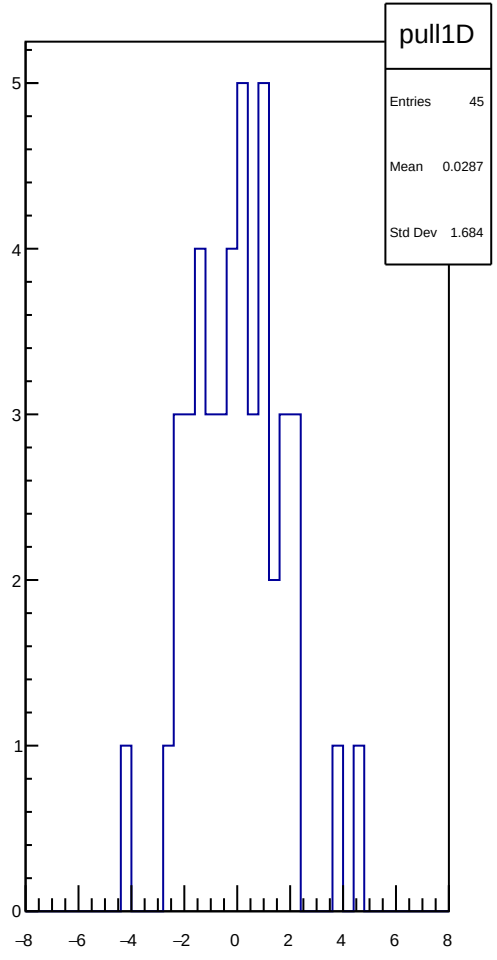

asym_bcm0l02_rms vs run
χ^2 / ndf 2.171e+04 / 44
p0 234.5 ± 0.2492
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

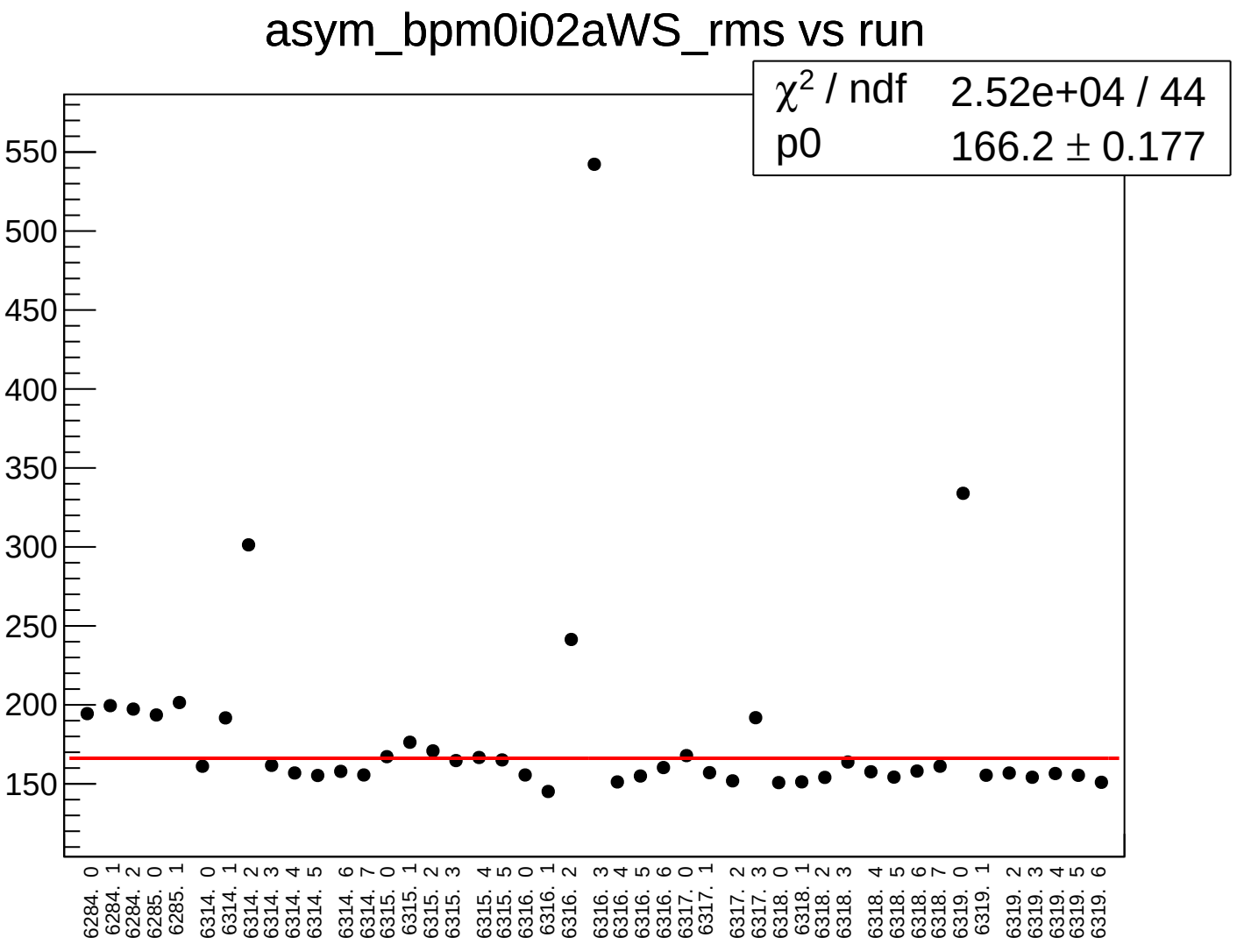

asym_bpm0i02WS_mean vs run
χ² / ndf 462.8 / 44
p0 −1950 ± 224.9
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2288
Std Dev 0
10
8
6
4
2
0
−2
−4
−6


pull1D
Entries 45
Mean −0.2442
Std Dev 2.837
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.554e+04 / 44
p0 149.3 ± 0.159
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0i02aWS_mean vs run
χ² / ndf 127.7 / 44
p0 2746 ± 250.3
15000
10000
5000
0
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −312.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 45
Mean 0.0287
Std Dev 1.684
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02aWS_rms vs run
χ² / ndf 2.52e+04 / 44
p0 166.2 ± 0.177
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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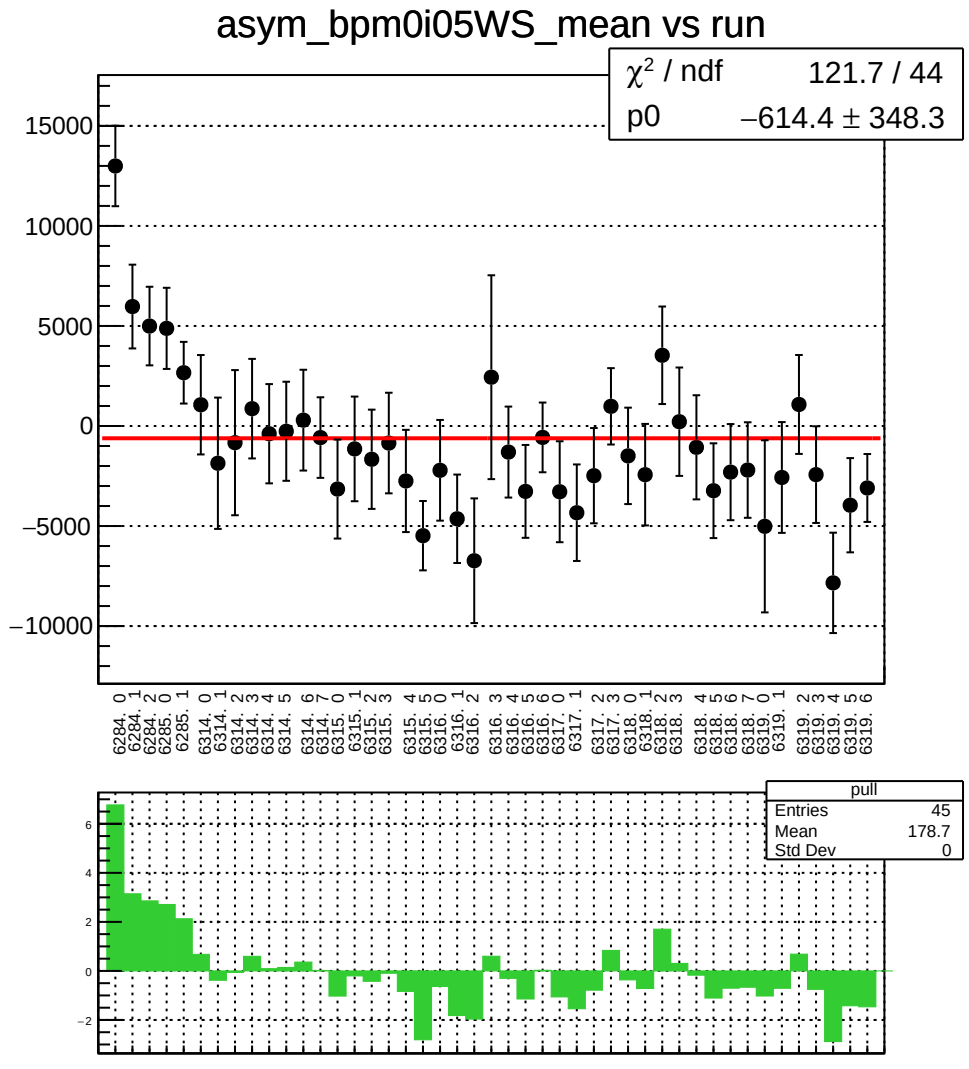
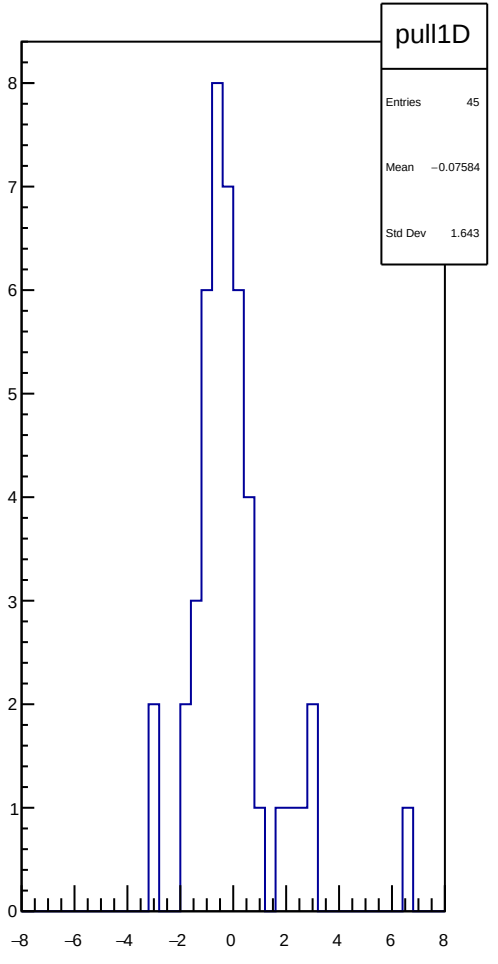
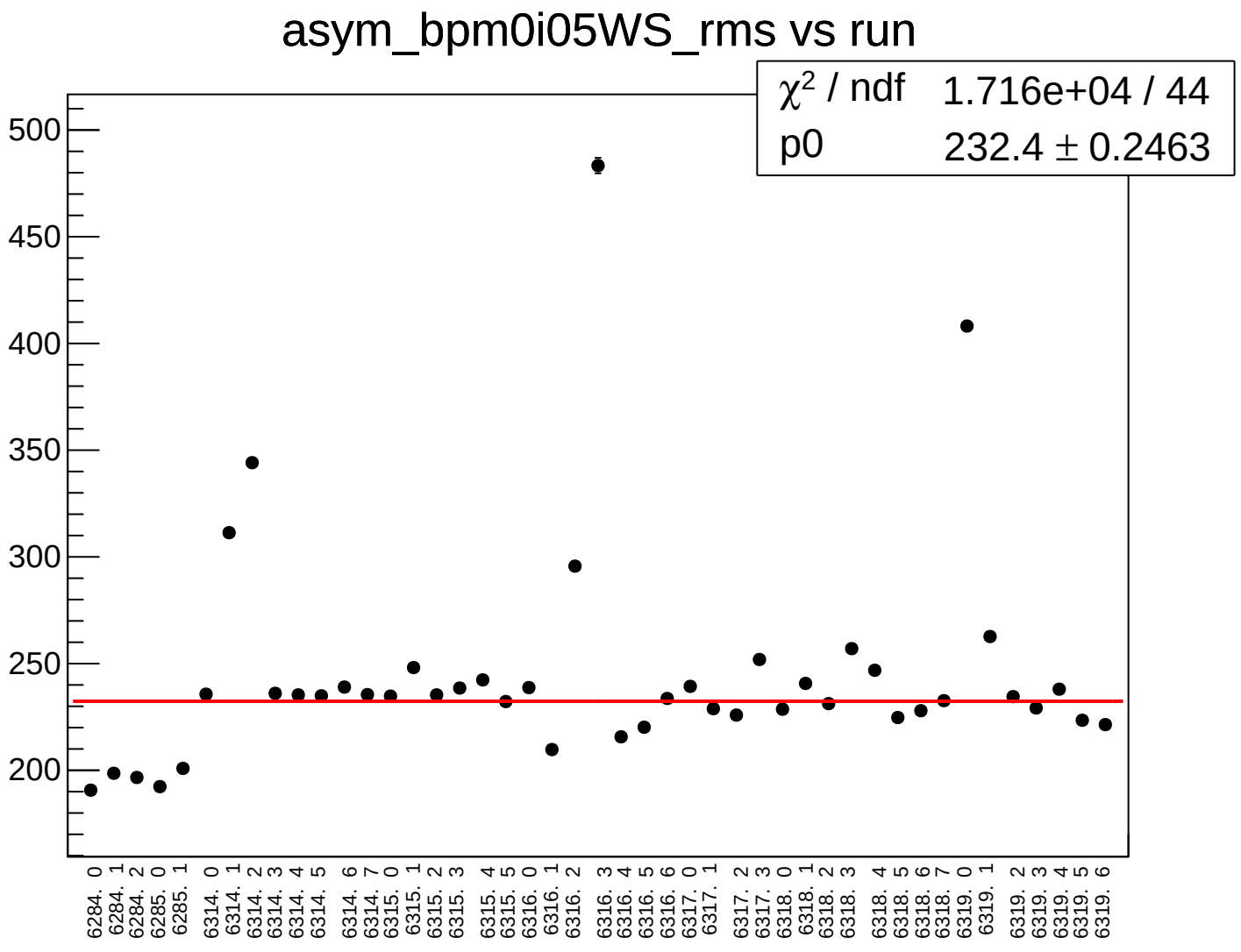
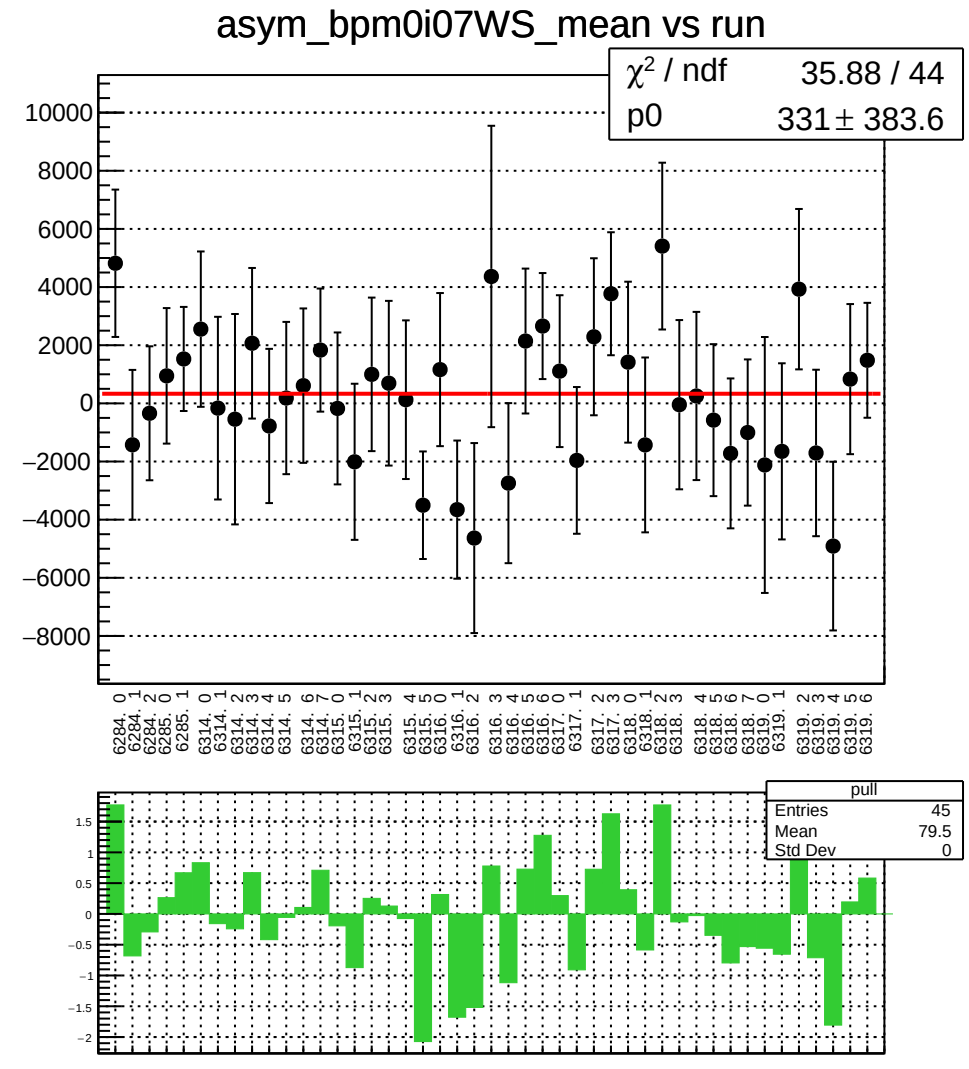
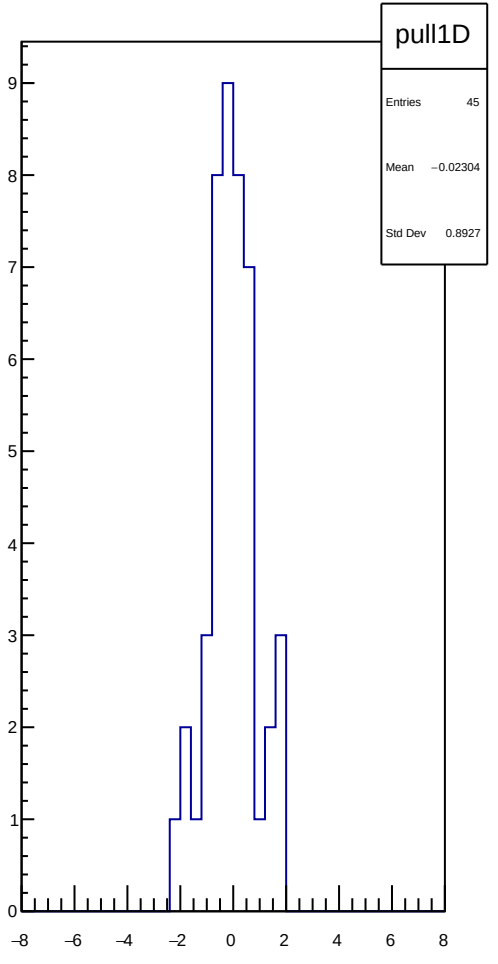
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

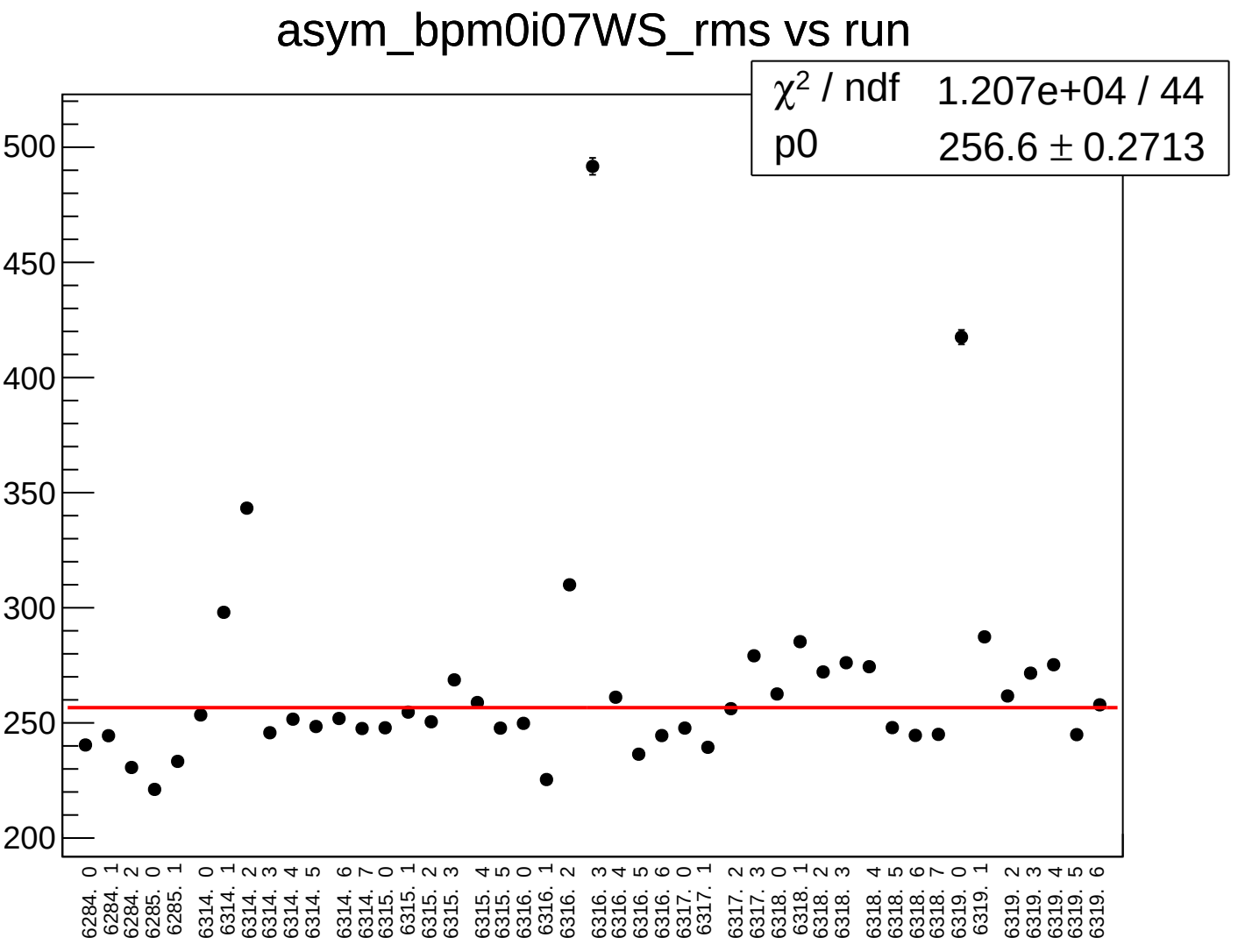

asym_bpm0i05WS_mean vs run
χ² / ndf 121.7 / 44
p0 −614.4 ± 348.3
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 178.7
Std Dev 0
6
4
2
0
−2


pull1D
Entries 45
Mean −0.07584
Std Dev 1.643
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1.716e+04 / 44
p0 232.4 ± 0.2463
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0i07WS_mean vs run
χ² / ndf 35.88 / 44
p0 331 ± 383.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 79.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02304
Std Dev 0.8927
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.207e+04 / 44
p0 256.6 ± 0.2713
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 3
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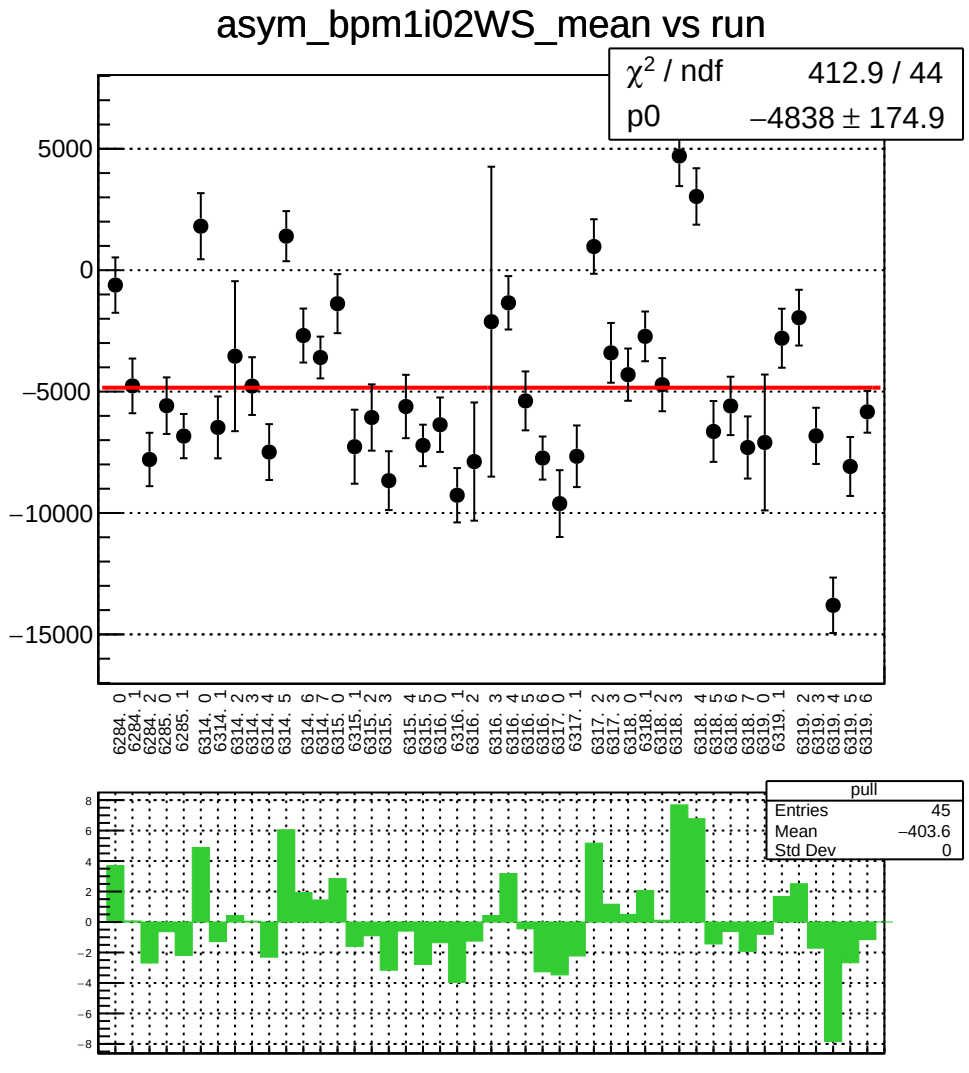
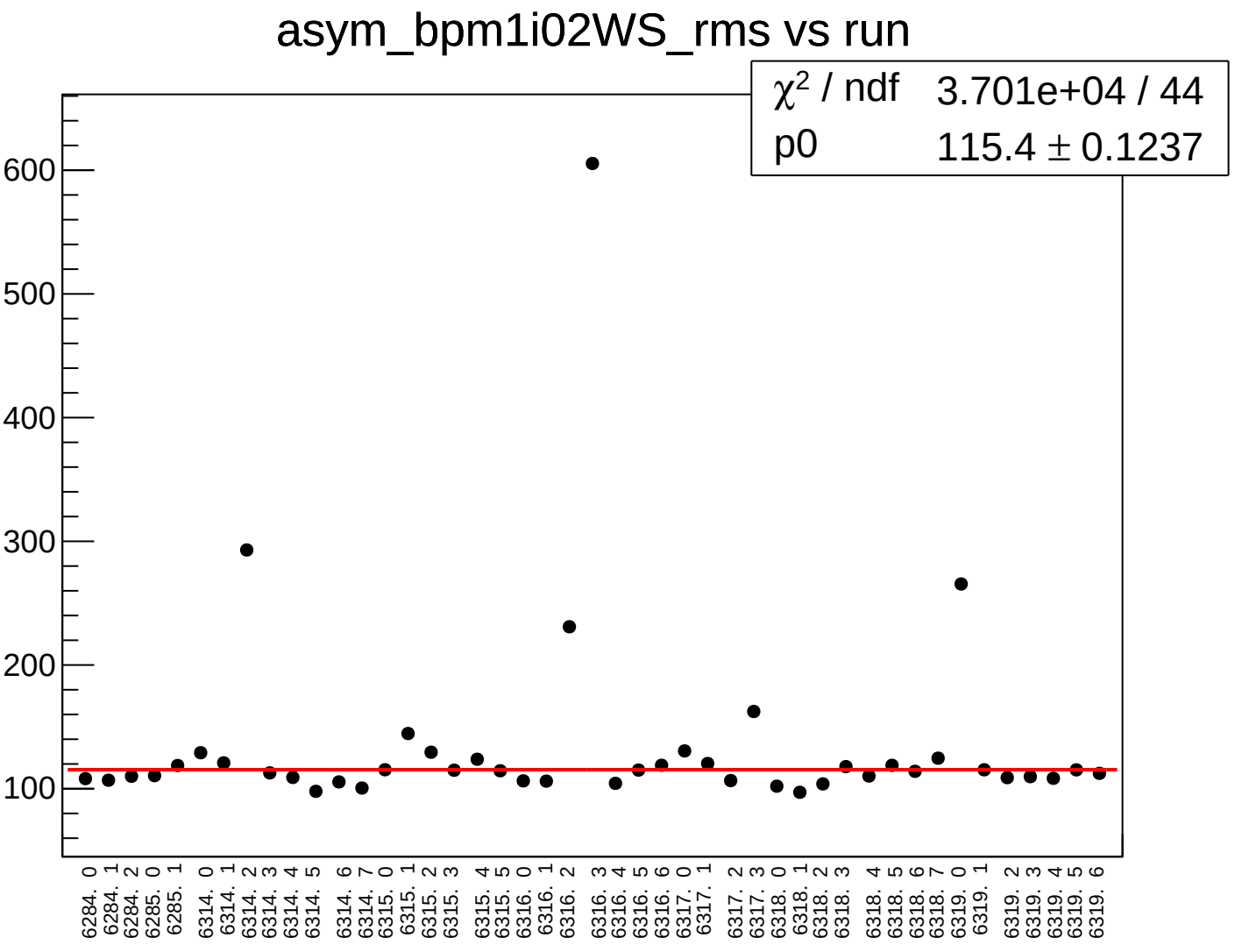
6319. 6


asym_bpm1i02WS_mean vs run
χ² / ndf 412.9 / 44
p0 −4838 ± 174.9
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −403.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 45
Mean 0.008139
Std Dev 3.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 3.701e+04 / 44
p0 115.4 ± 0.1237
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 3
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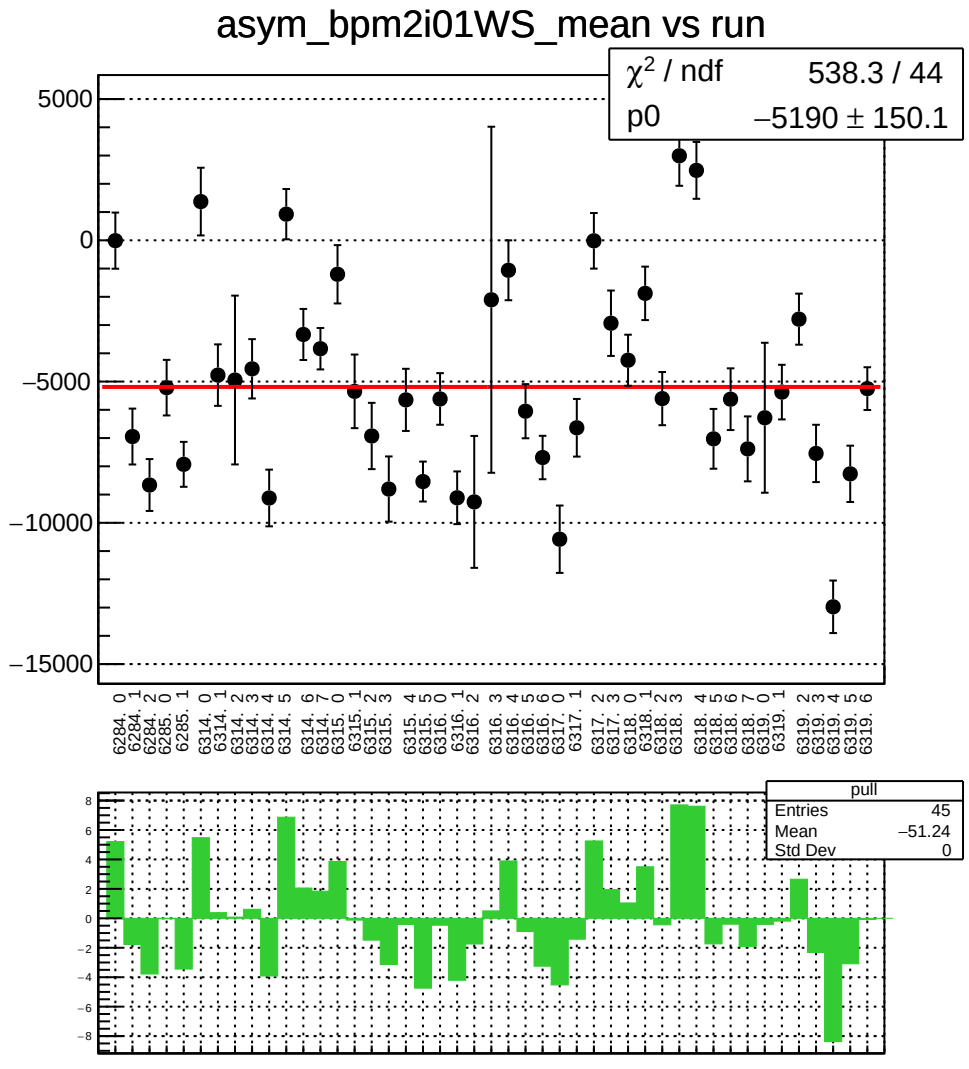
6319. 5
6319. 6


asym_bpm2i01WS_mean vs run
χ² / ndf 538.3 / 44
p0 −5190 ± 150.1
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
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6316. 0
6316. 1
6316. 2
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
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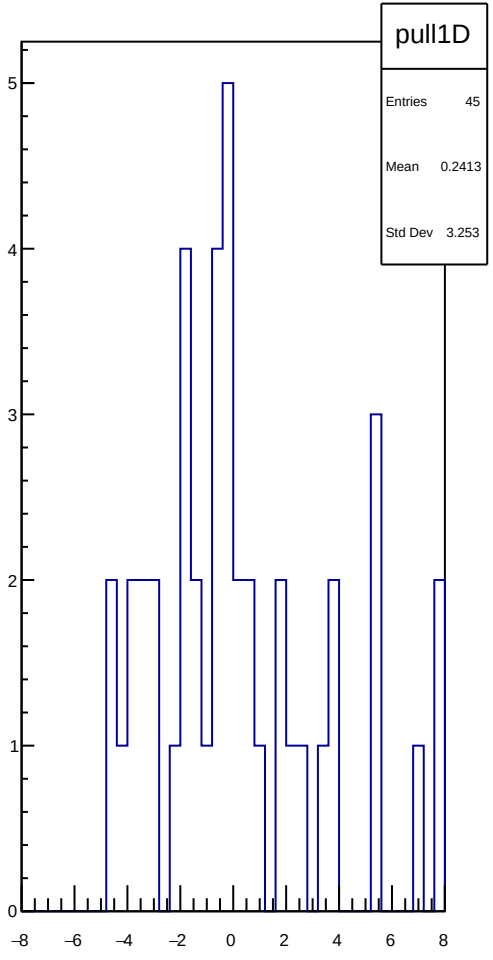
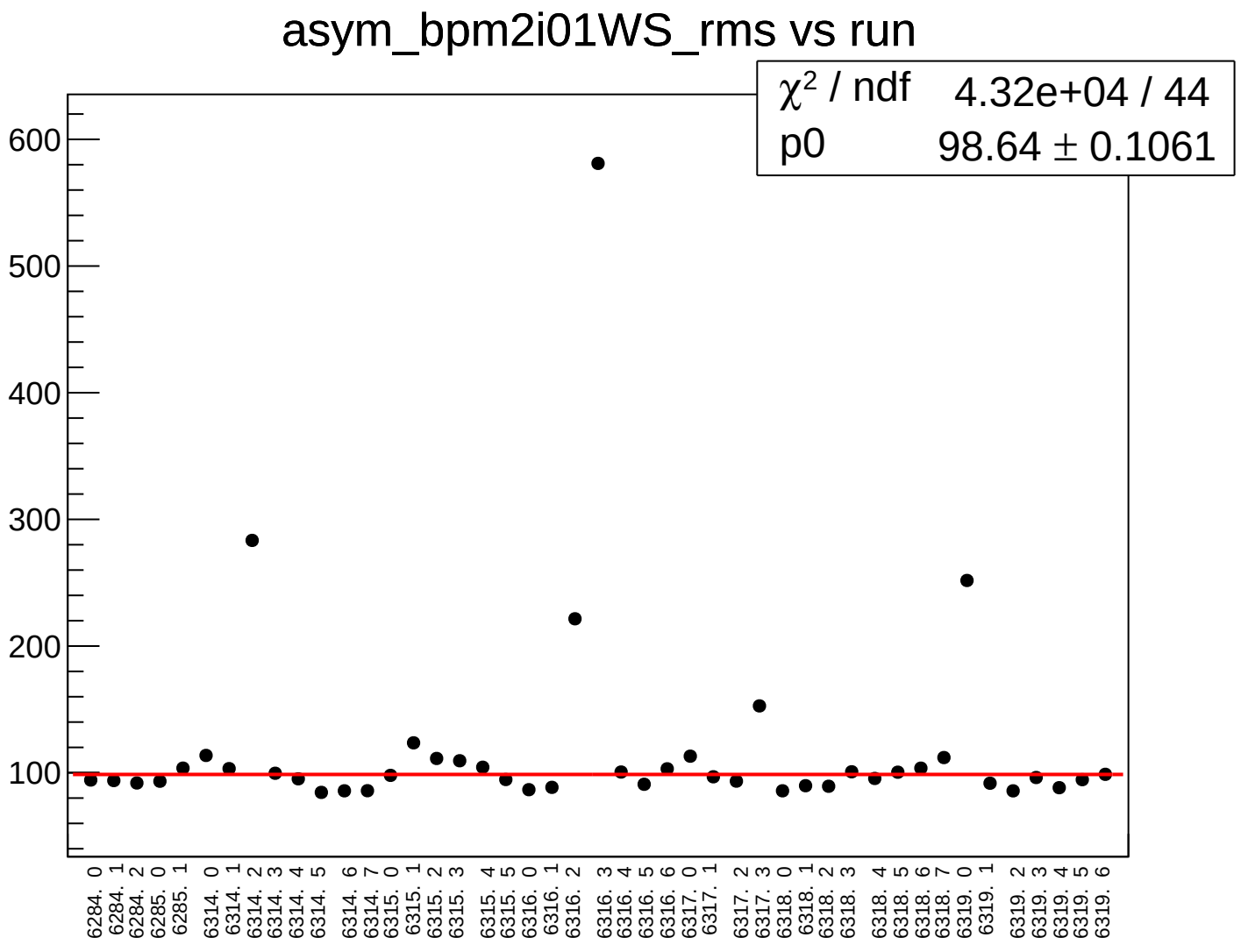
pull
Entries 45
Mean −51.24
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 45
Mean 0.2413
Std Dev 3.253
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ² / ndf 4.32e+04 / 44
p0 98.64 ± 0.1061
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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6319. 3
6319. 4
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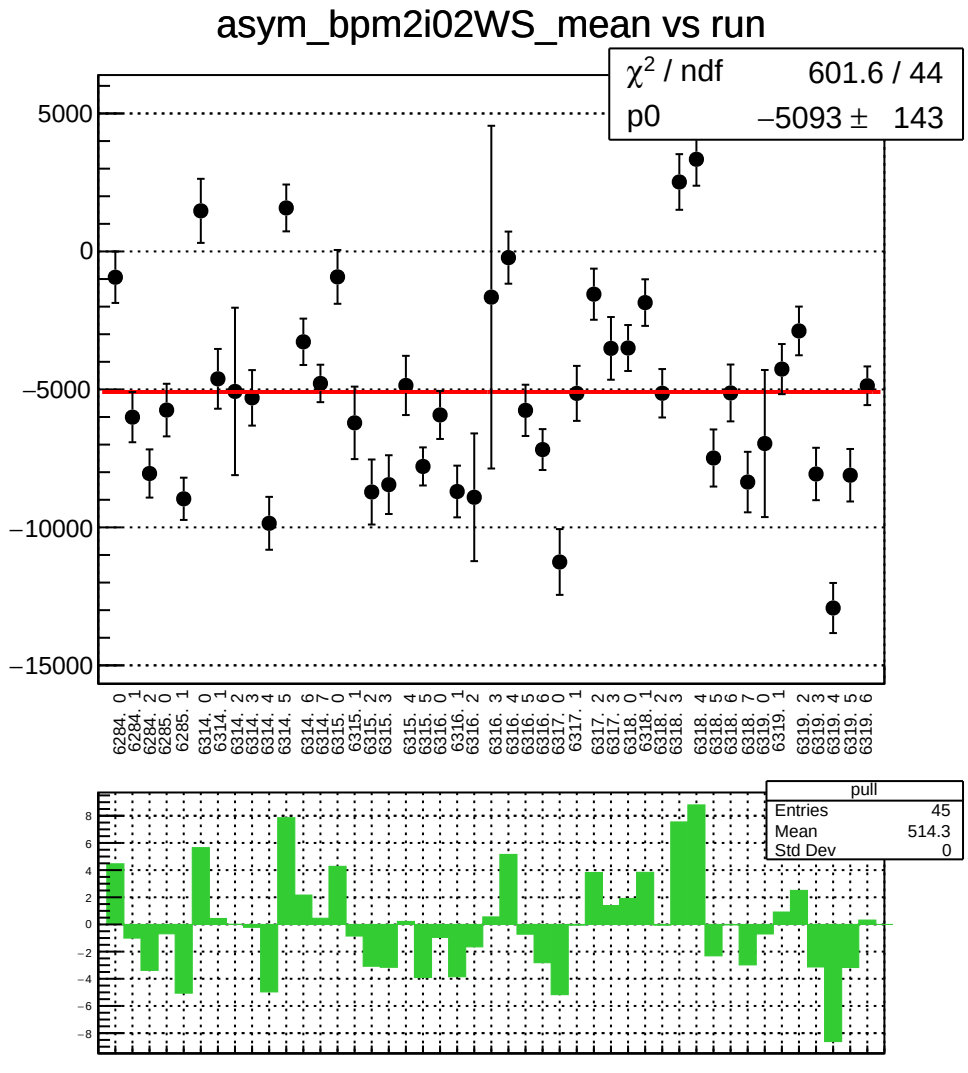
6319. 6


asym_bpm2i02WS_mean vs run
χ² / ndf 601.6 / 44
p0 −5093 ± 143
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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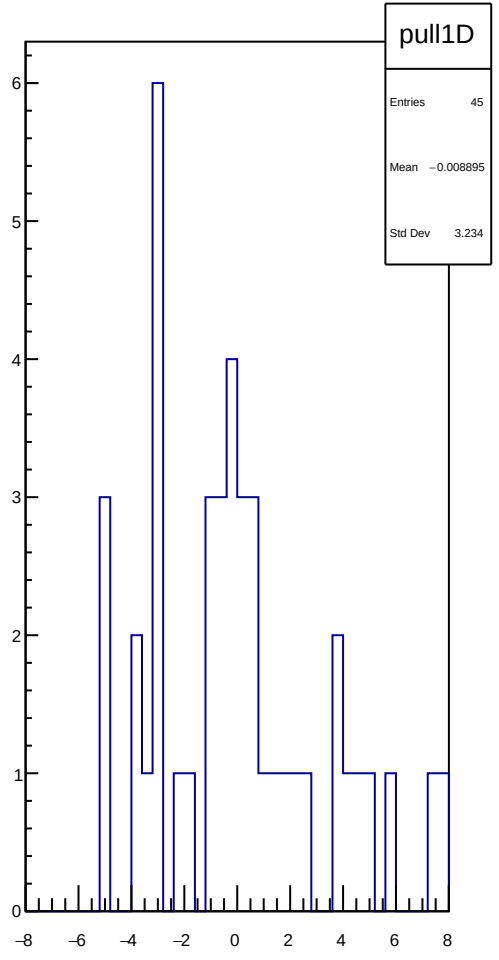
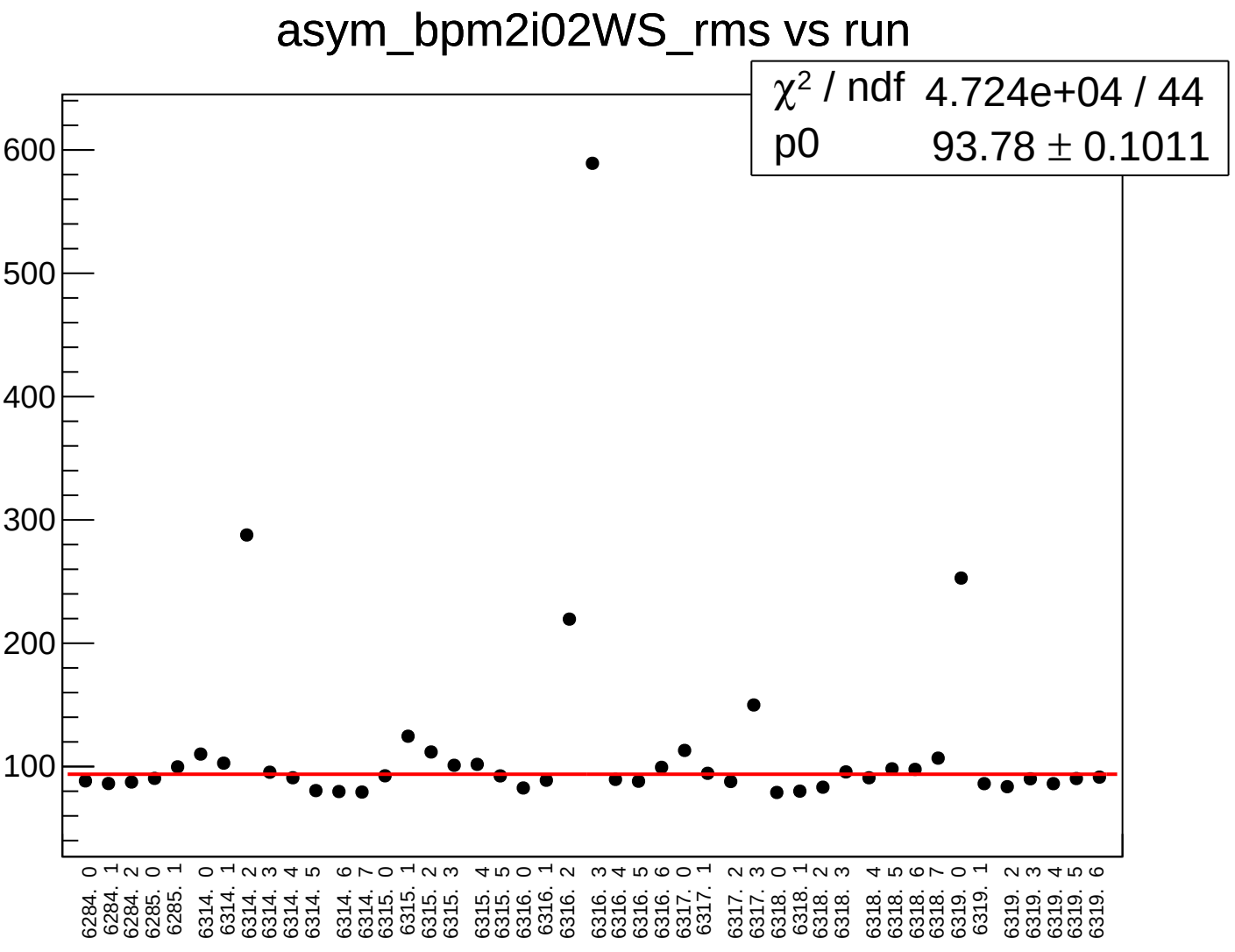
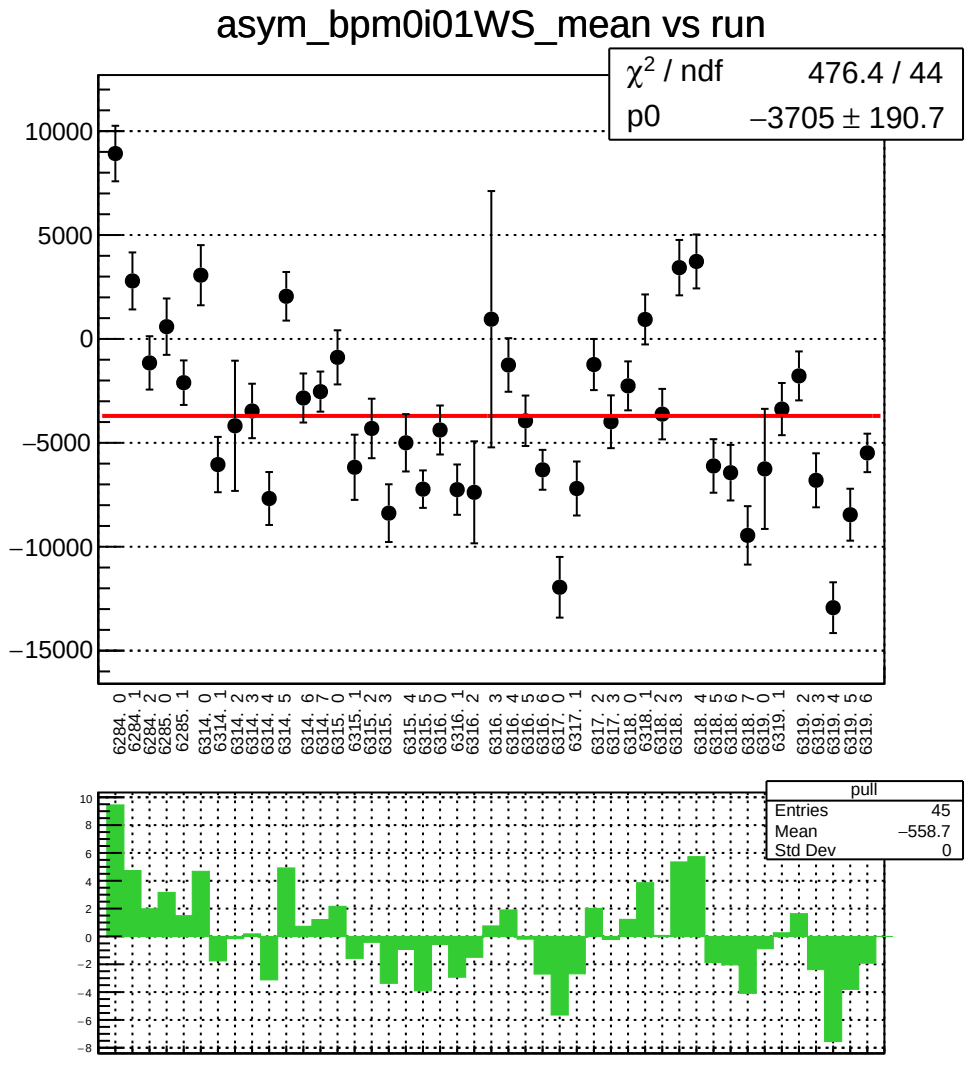
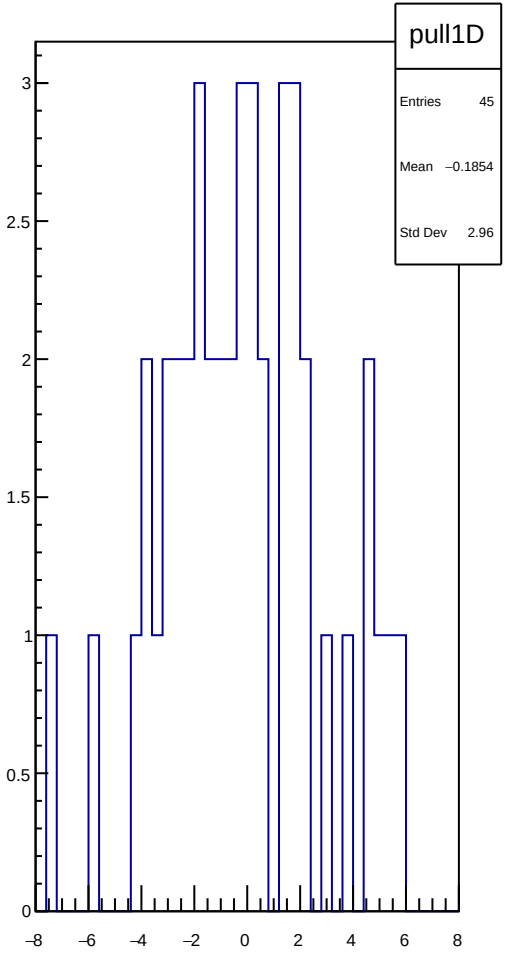
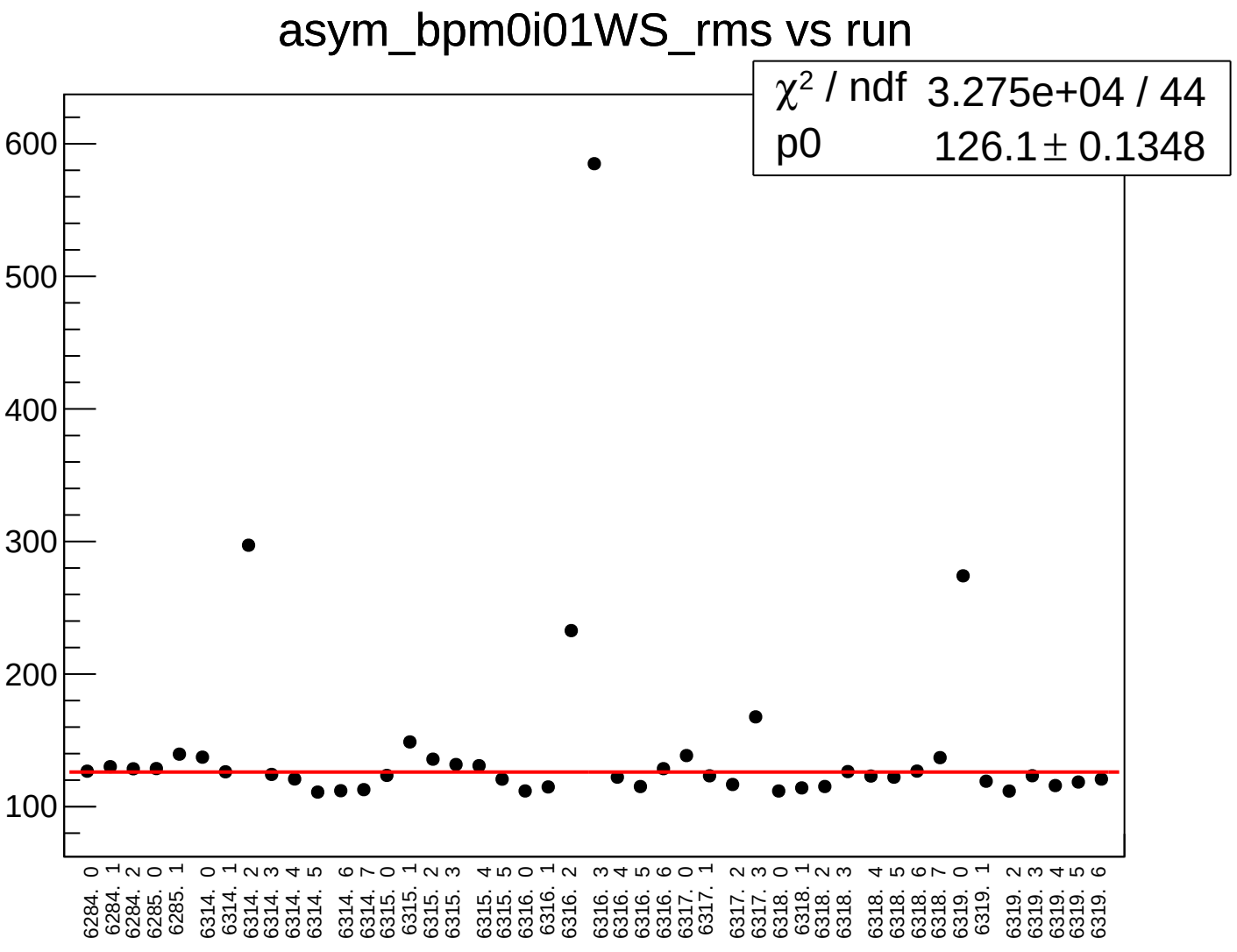
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 514.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

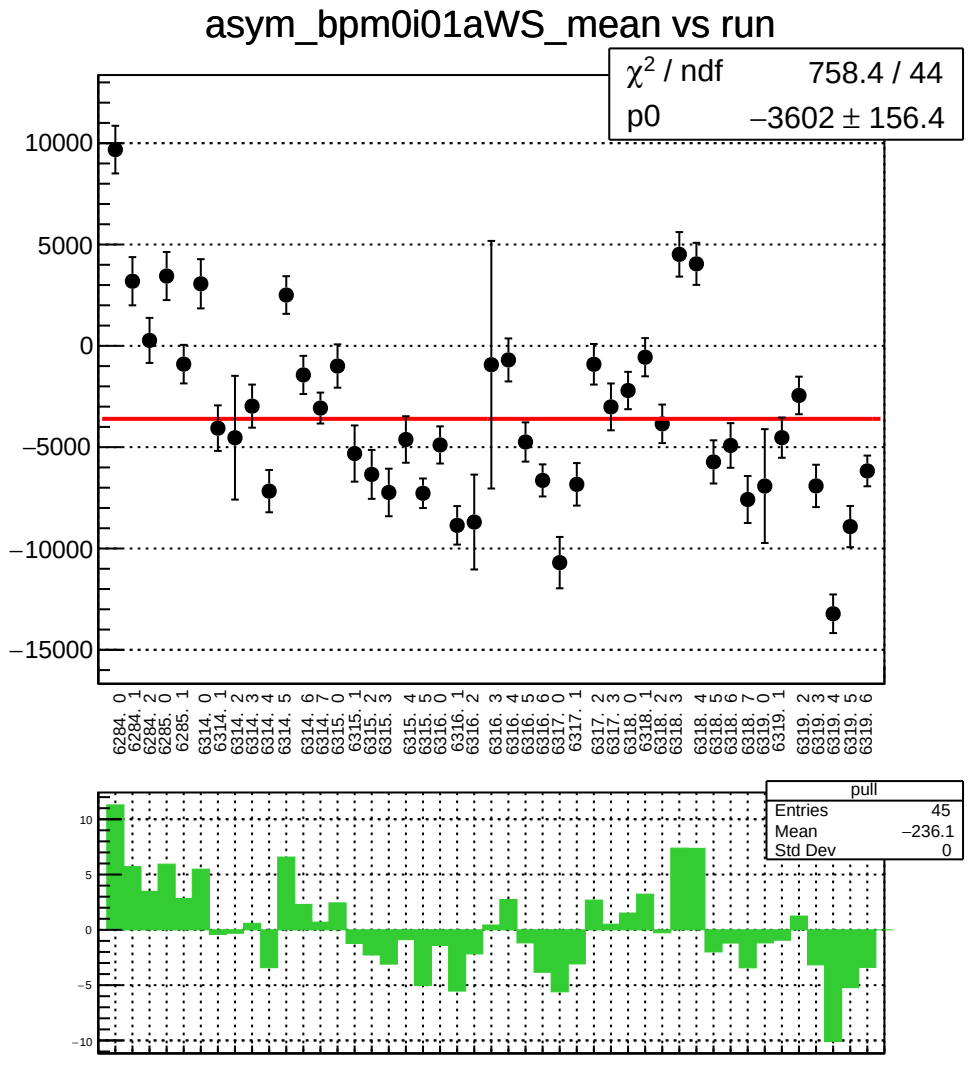

pull1D
Entries 45
Mean −0.008895
Std Dev 3.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

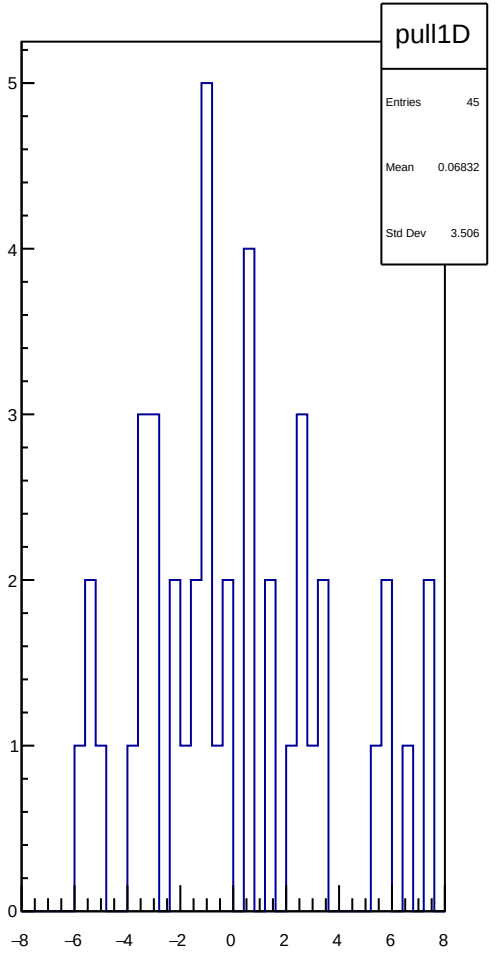

asym_bpm2i02WS_rms vs run
χ² / ndf 4.724e+04 / 44
p0 93.78 ± 0.1011
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

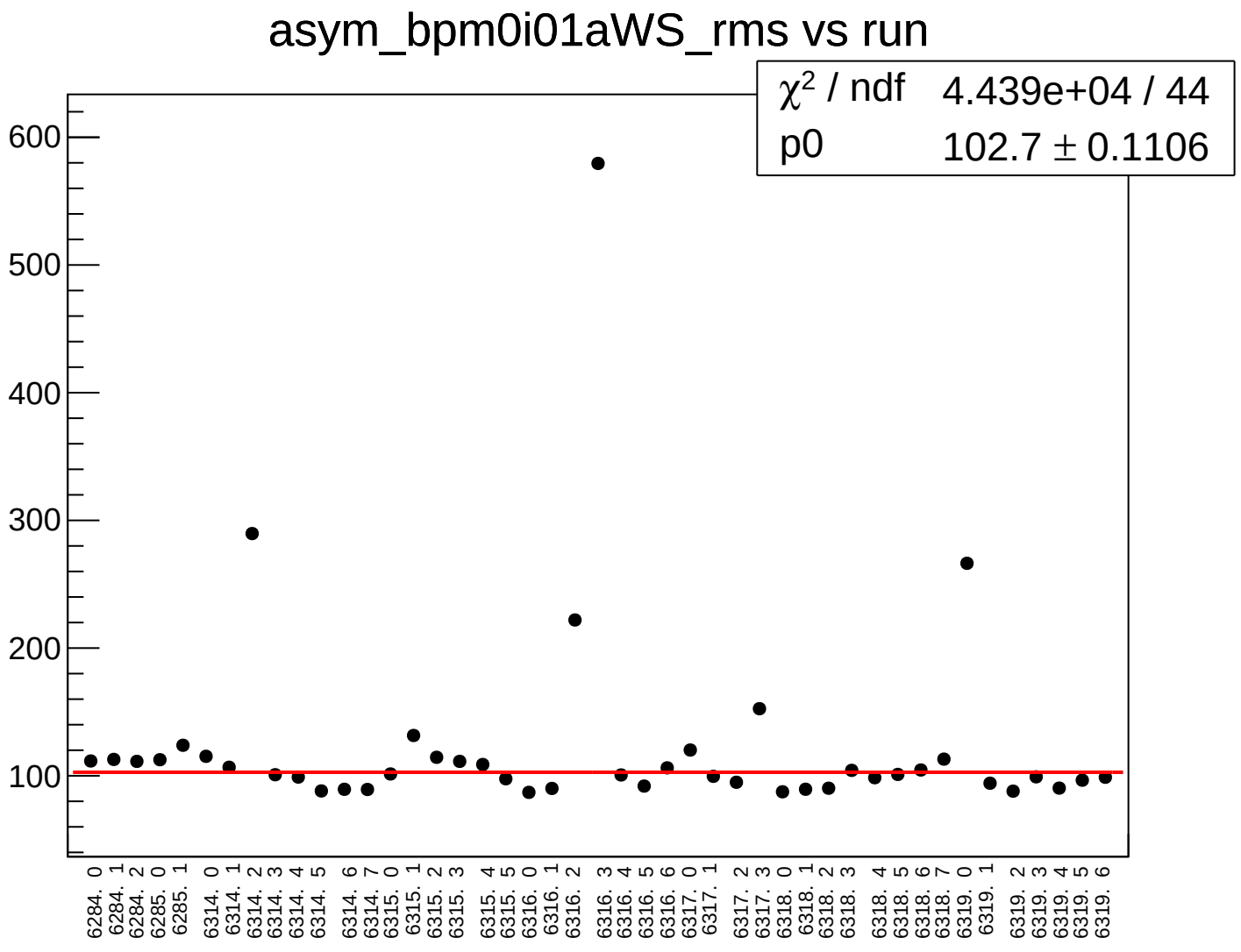

asym_bpm0i01WS_mean vs run
χ² / ndf 476.4 / 44
p0 −3705 ± 190.7
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −558.7
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

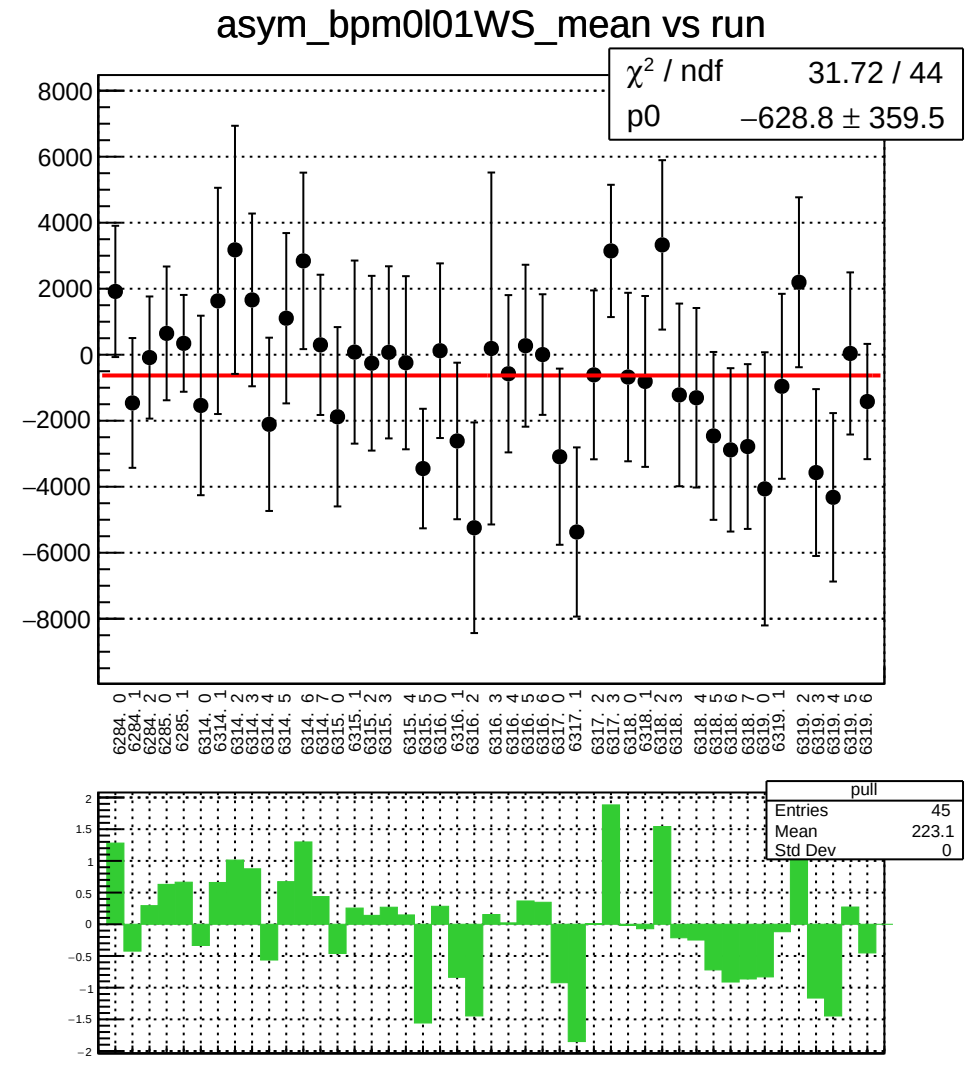

pull1D
Entries 45
Mean −0.1854
Std Dev 2.96
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

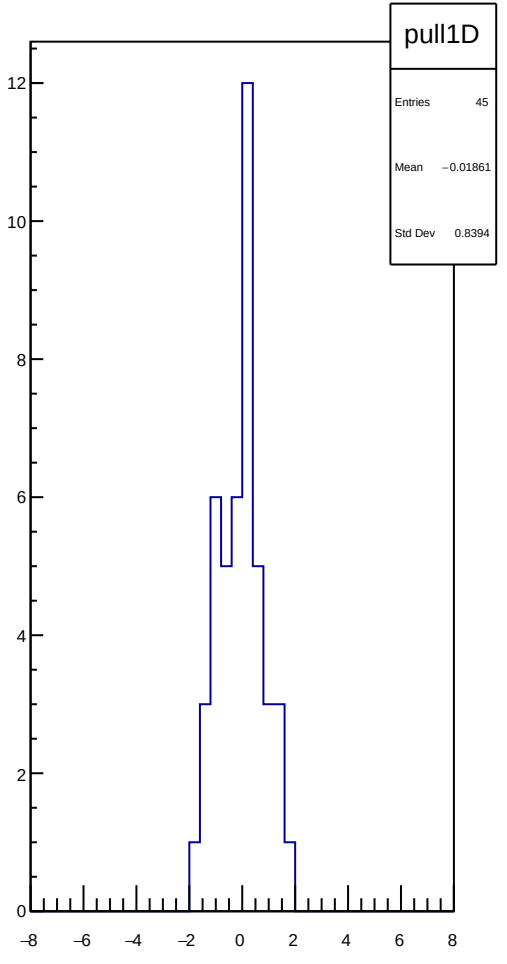

asym_bpm0i01WS_rms vs run
χ² / ndf 3.275e+04 / 44
p0 126.1 ± 0.1348
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

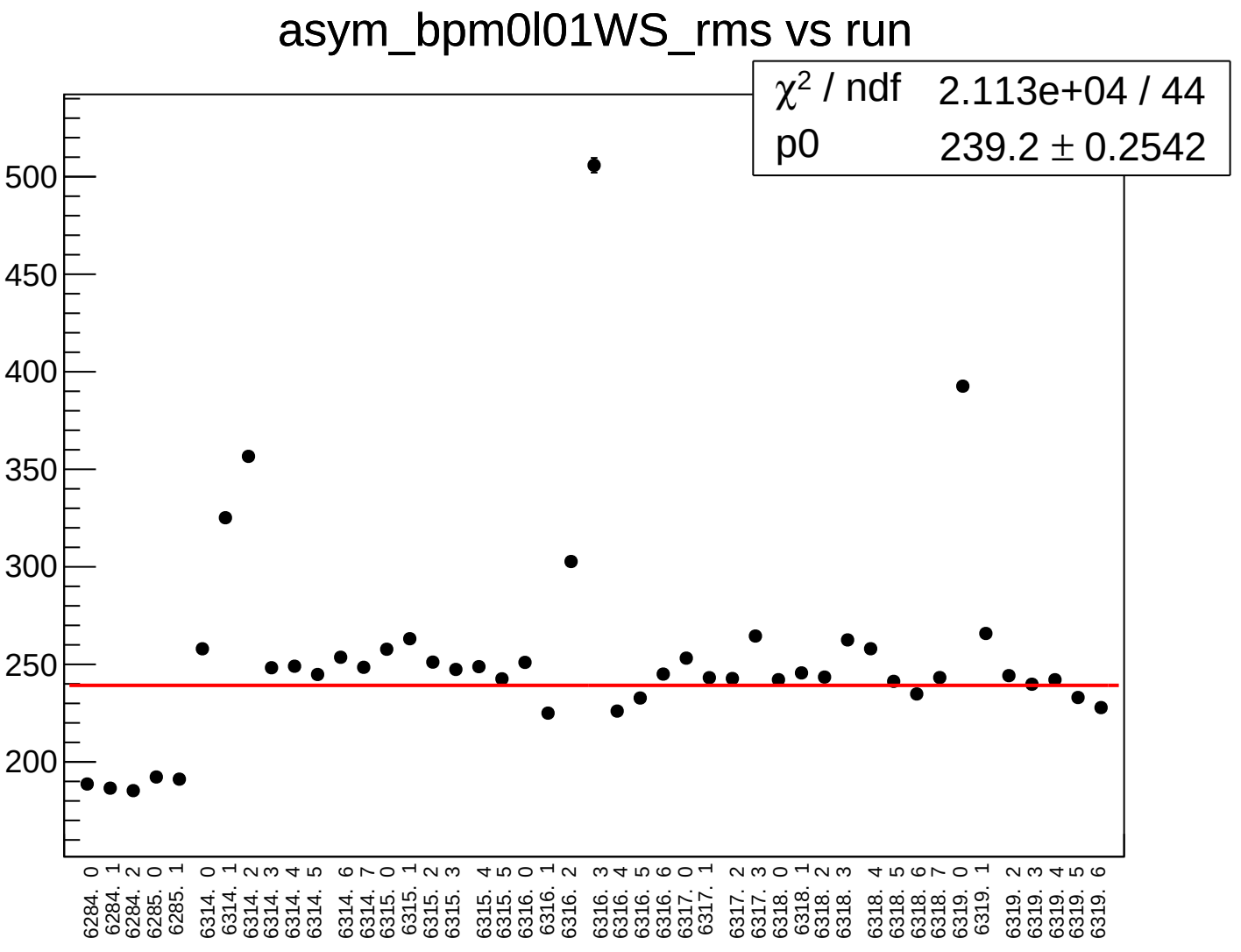

asym_bpm0i01aWS_mean vs run
χ² / ndf 758.4 / 44
p0 −3602 ± 156.4
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −236.1
Std Dev 0
10
5
0
−5
−10

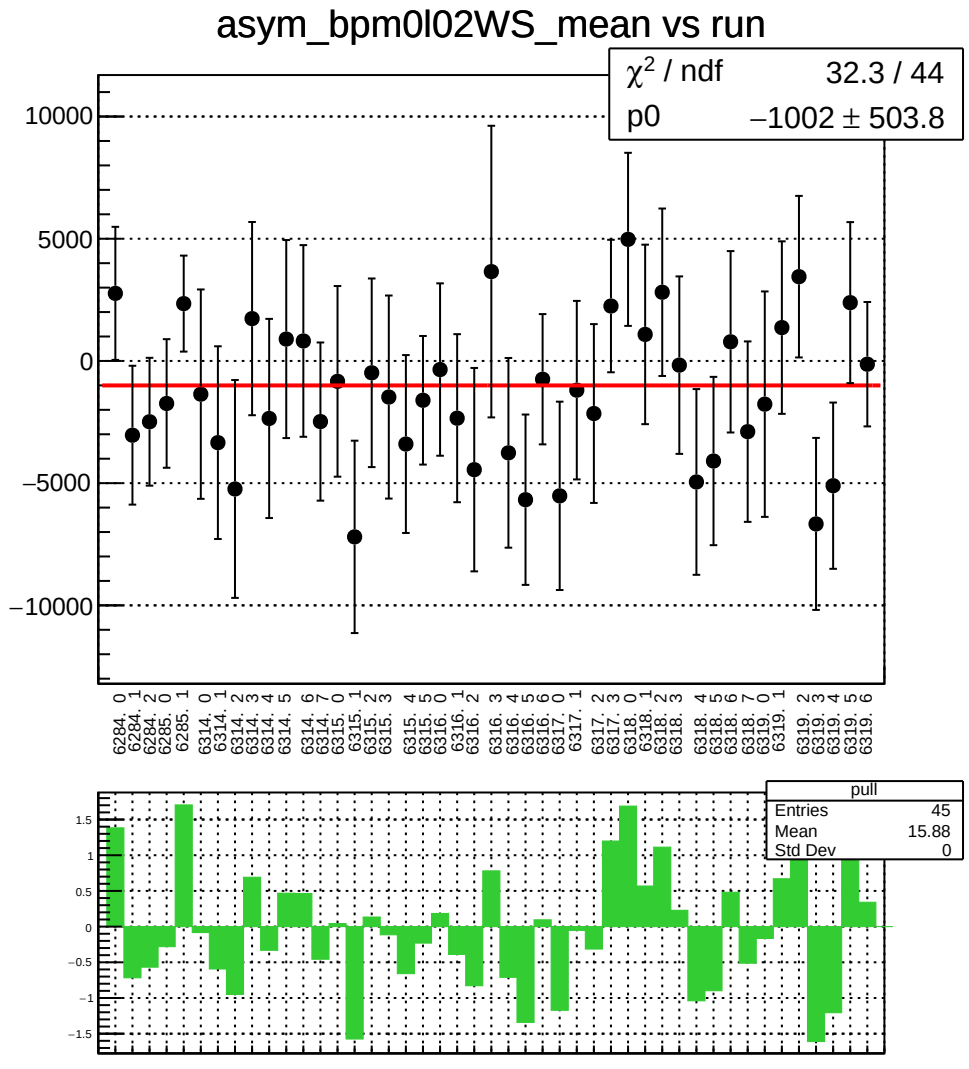

pull1D
Entries 45
Mean 0.06832
Std Dev 3.506
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

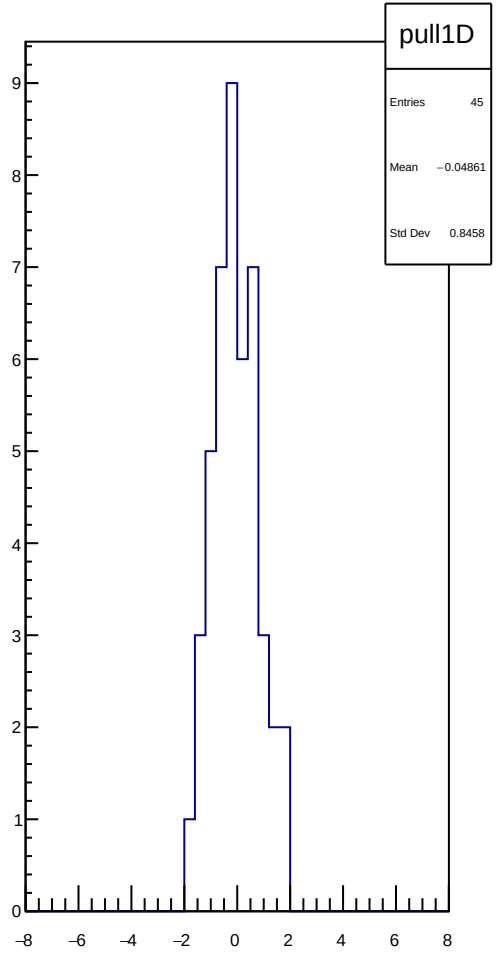

asym_bpm0i01aWS_rms vs run
χ² / ndf 4.439e+04 / 44
p0 102.7 ± 0.1106
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

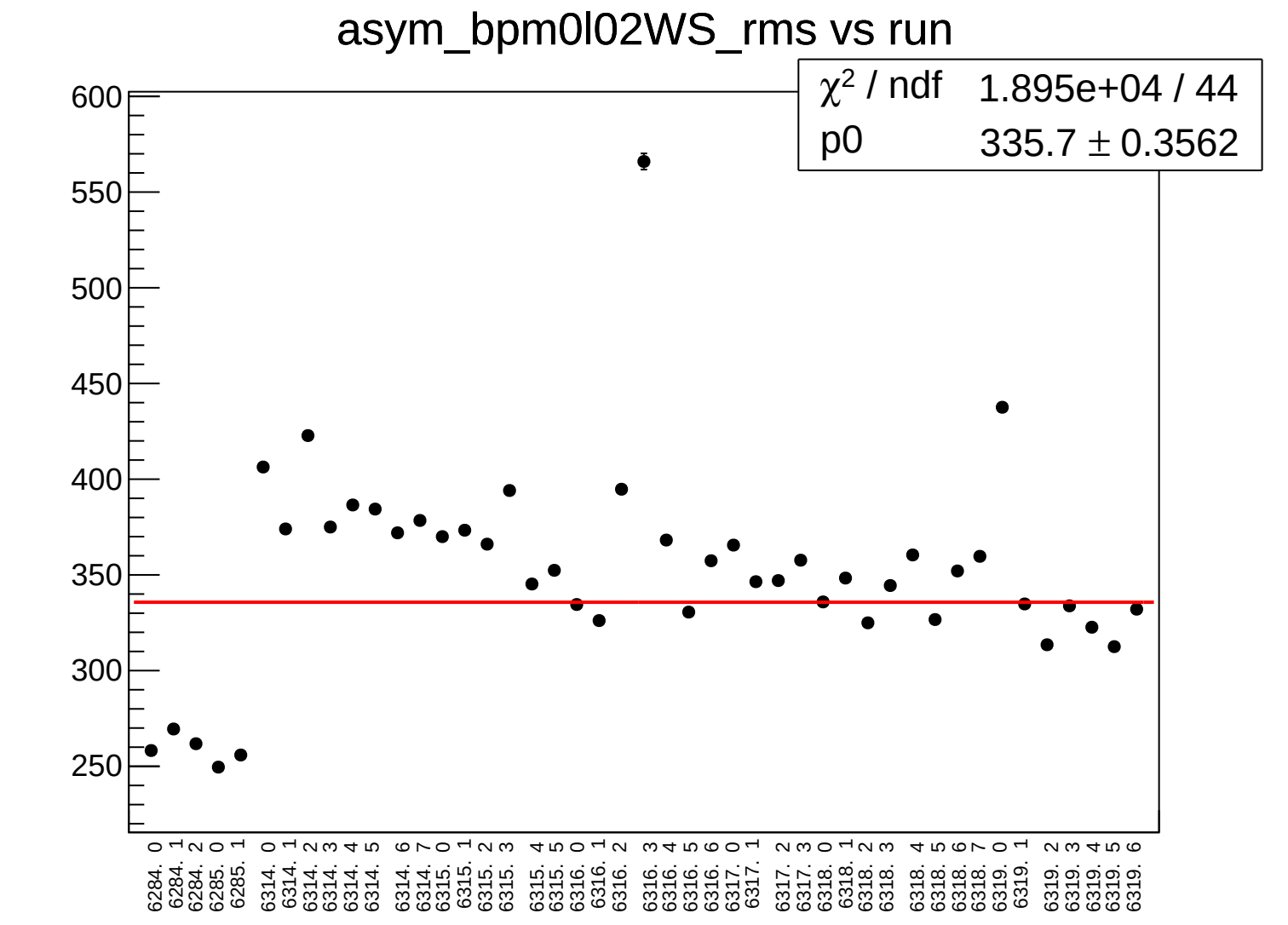

asym_bpm0l01WS_mean vs run
χ² / ndf 31.72 / 44
p0 −628.8 ± 359.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 223.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

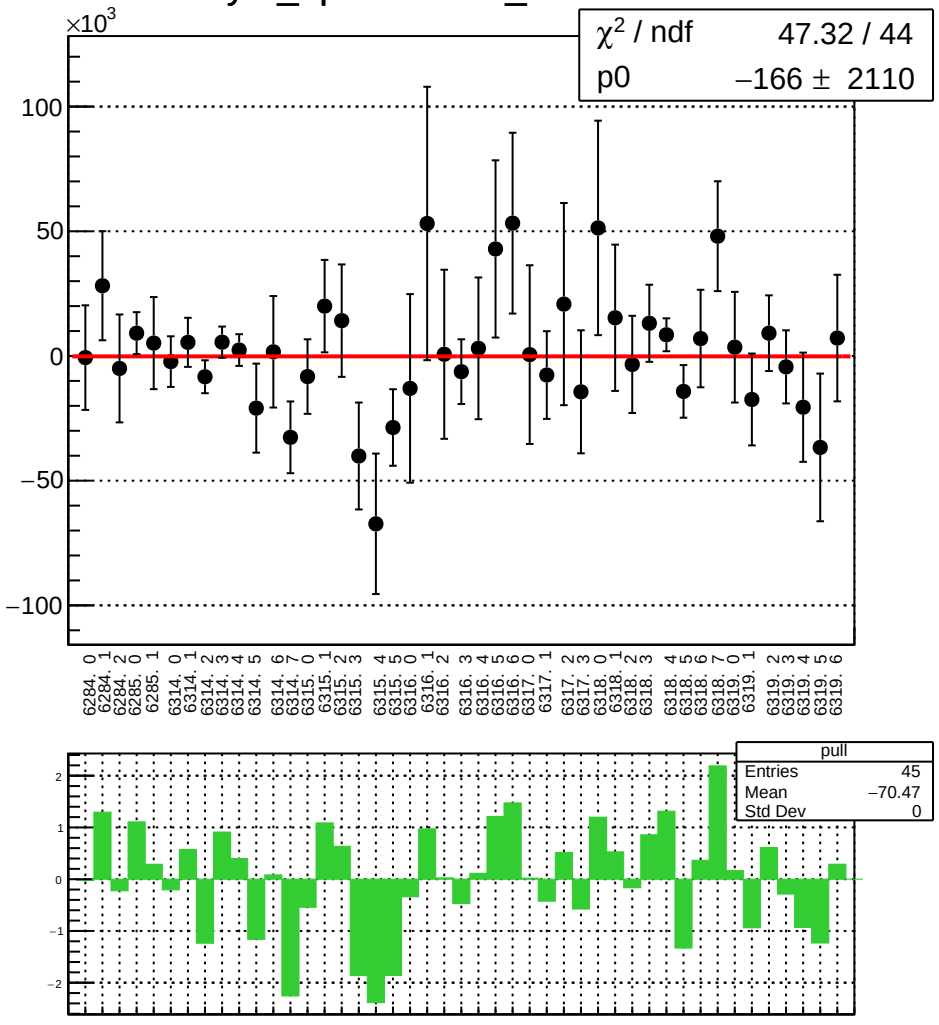

pull1D
Entries 45
Mean −0.01861
Std Dev 0.8394
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

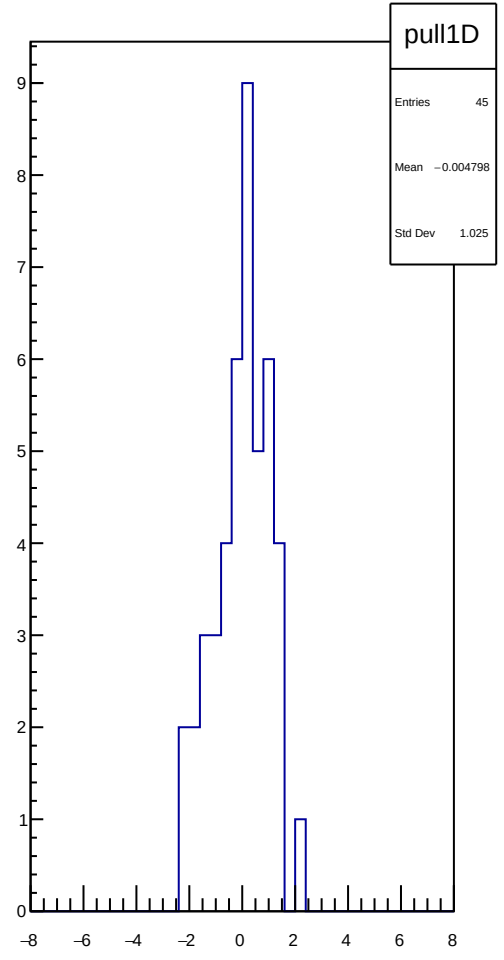

asym_bpm0l01WS_rms vs run
χ² / ndf 2.113e+04 / 44
p0 239.2 ± 0.2542
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

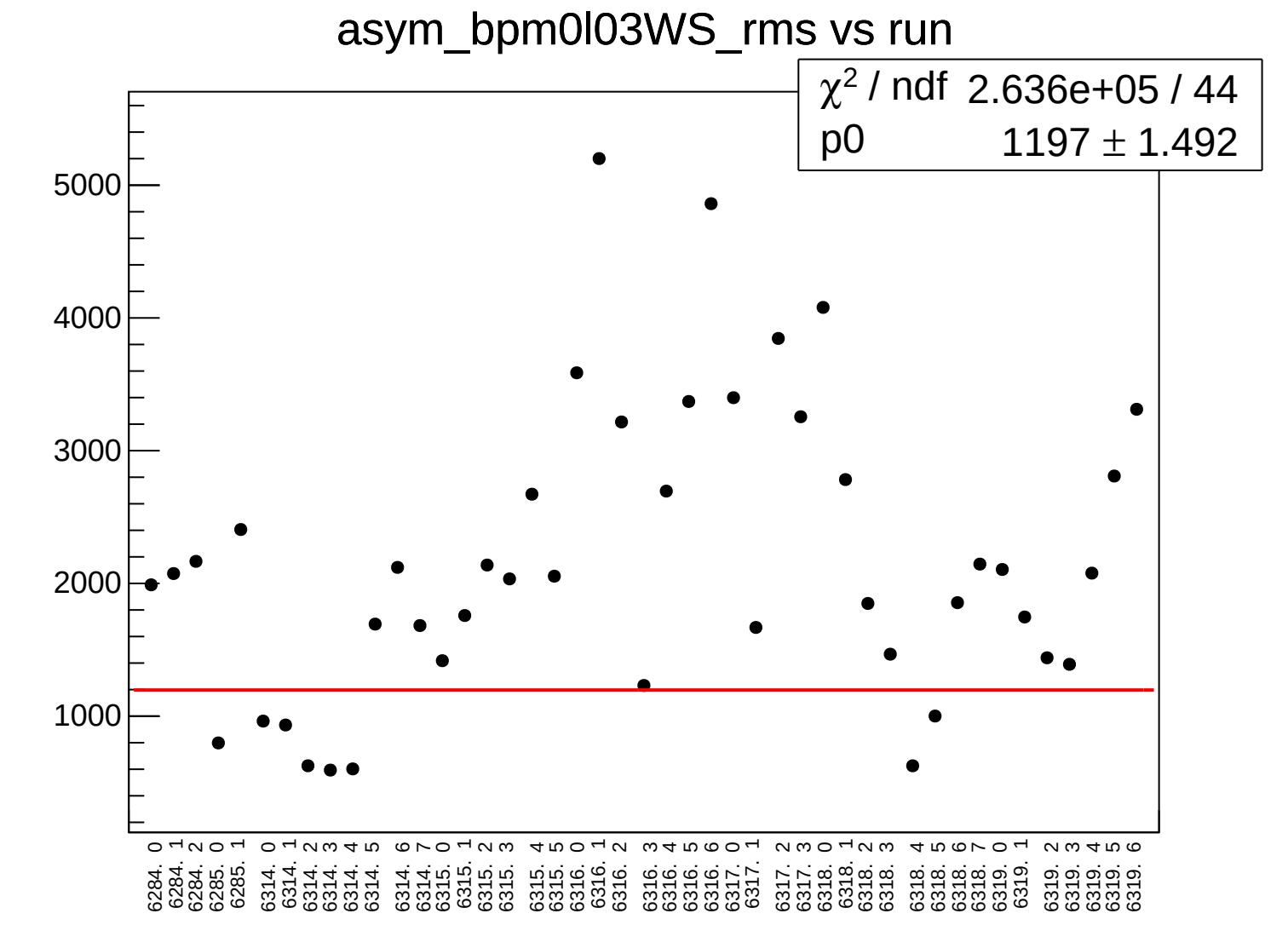

asym_bpm0l02WS_mean vs run
χ² / ndf 32.3 / 44
p0 −1002 ± 503.8
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

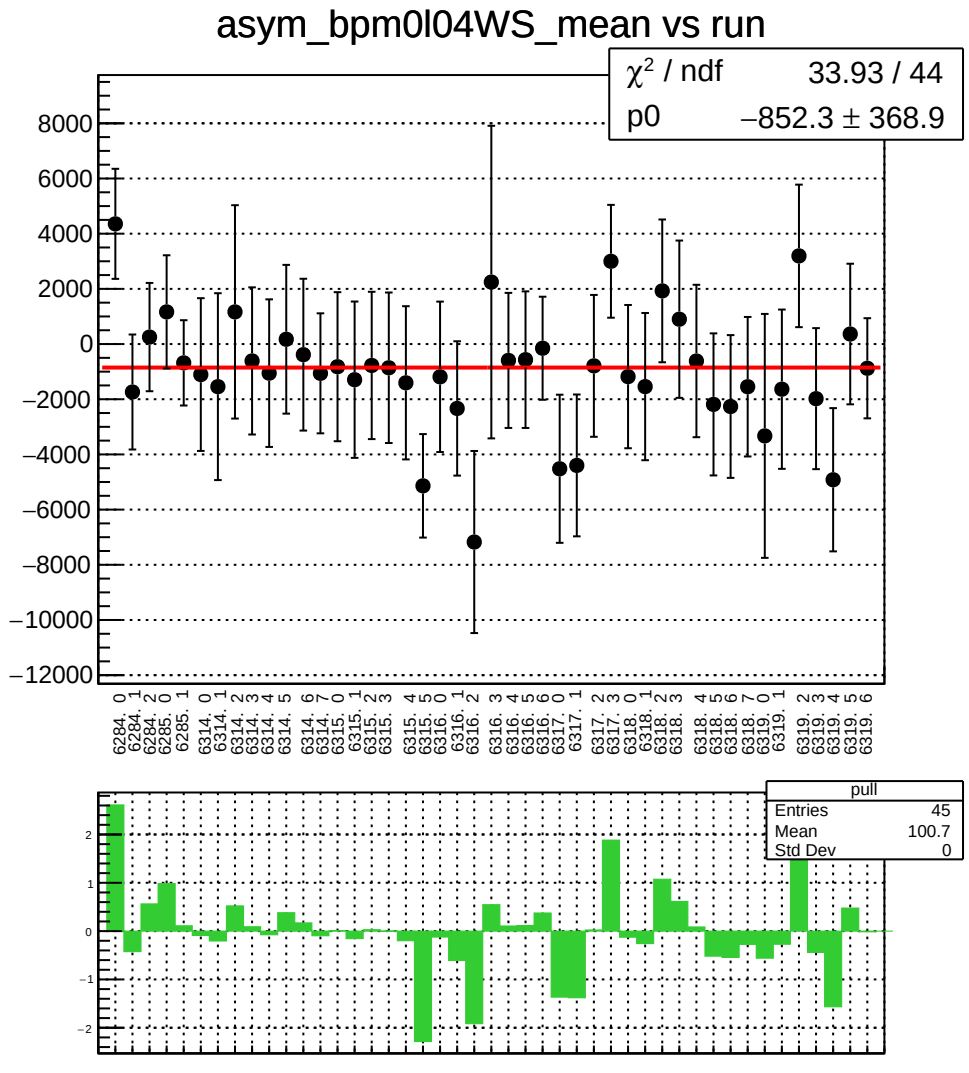

pull1D
Entries 45
Mean −0.04861
Std Dev 0.8458
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

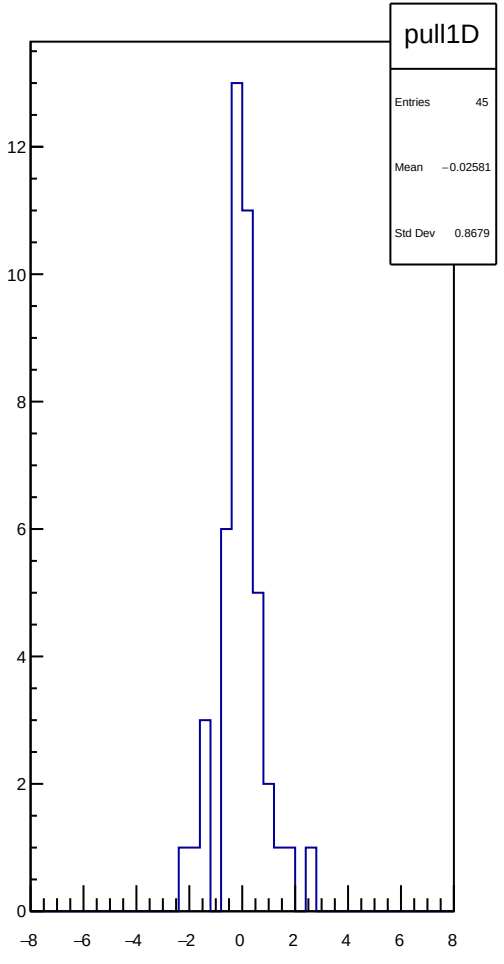

asym_bpm0l02WS_rms vs run
χ² / ndf 1.895e+04 / 44
p0 335.7 ± 0.3562
600
550
500
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

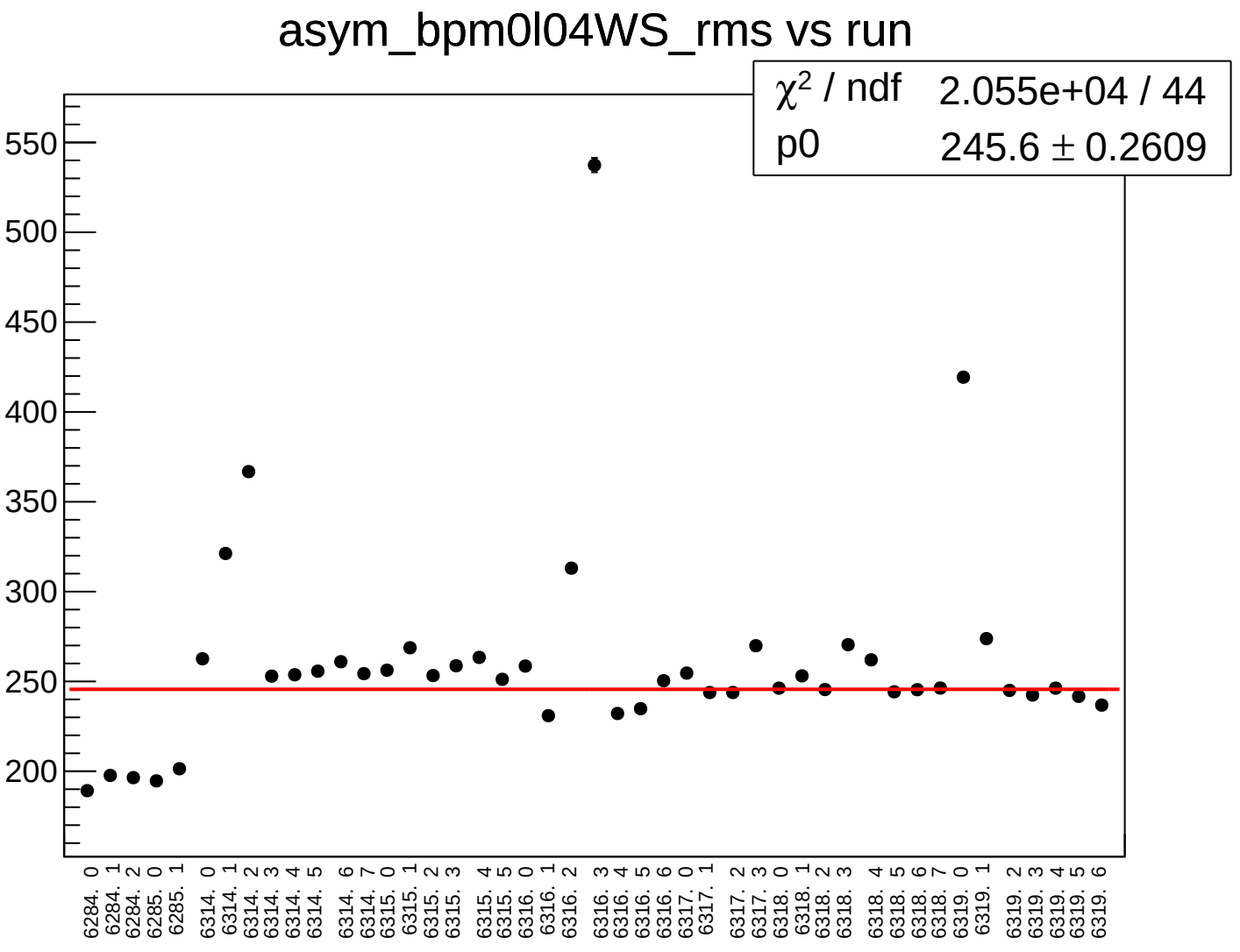

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 47.32 / 44
p0 −166 ± 2110
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −70.47
Std Dev 0
2
1
0
−1
−2

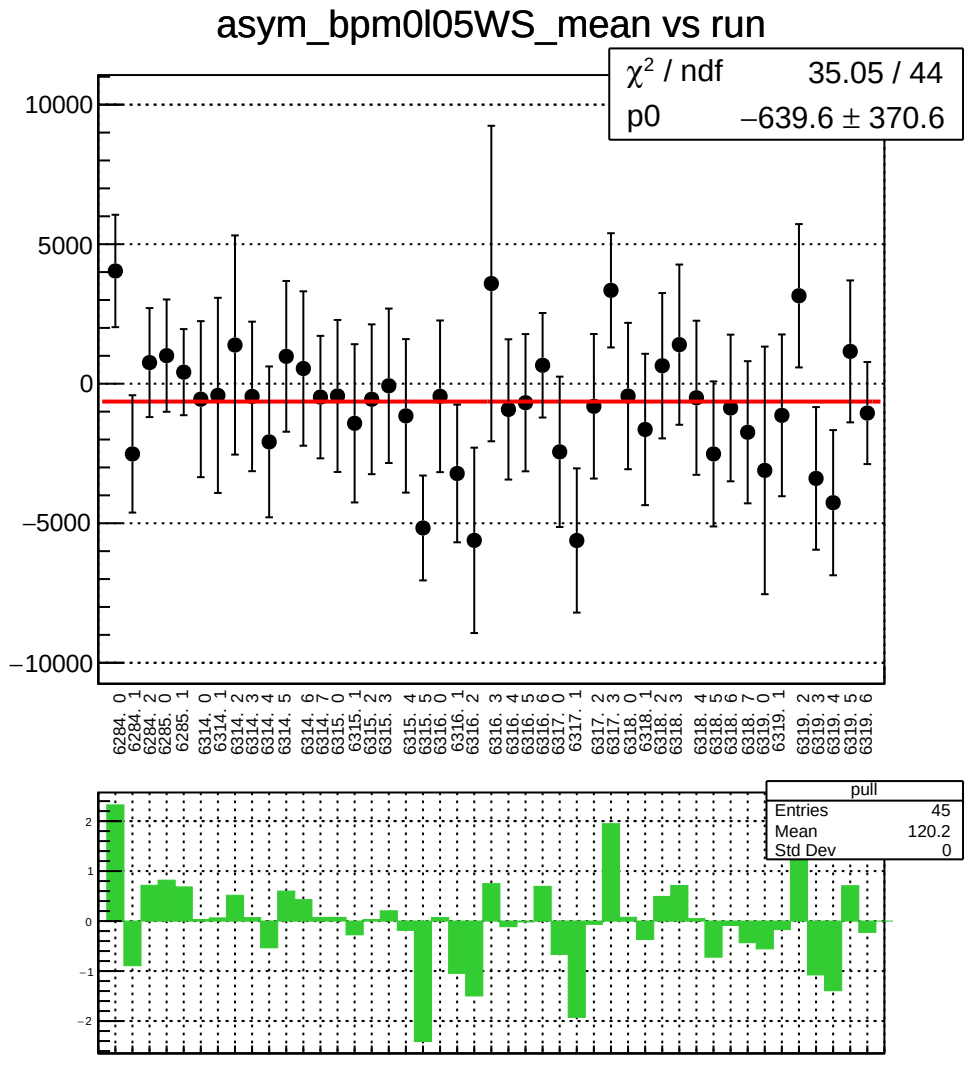

pull1D
Entries 45
Mean −0.004798
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

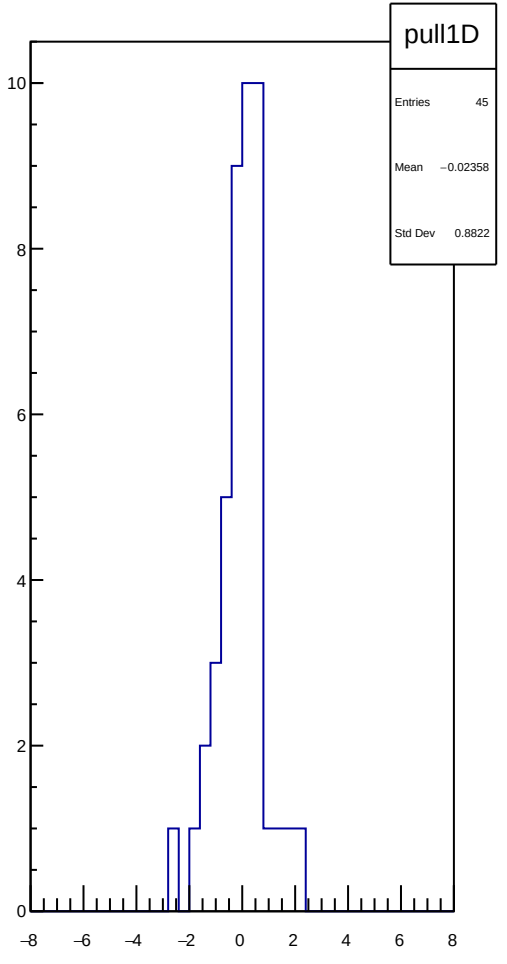

asym_bpm0l03WS_rms vs run
χ² / ndf 2.636e+05 / 44
p0 1197 ± 1.492
5000
4000
3000
2000
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

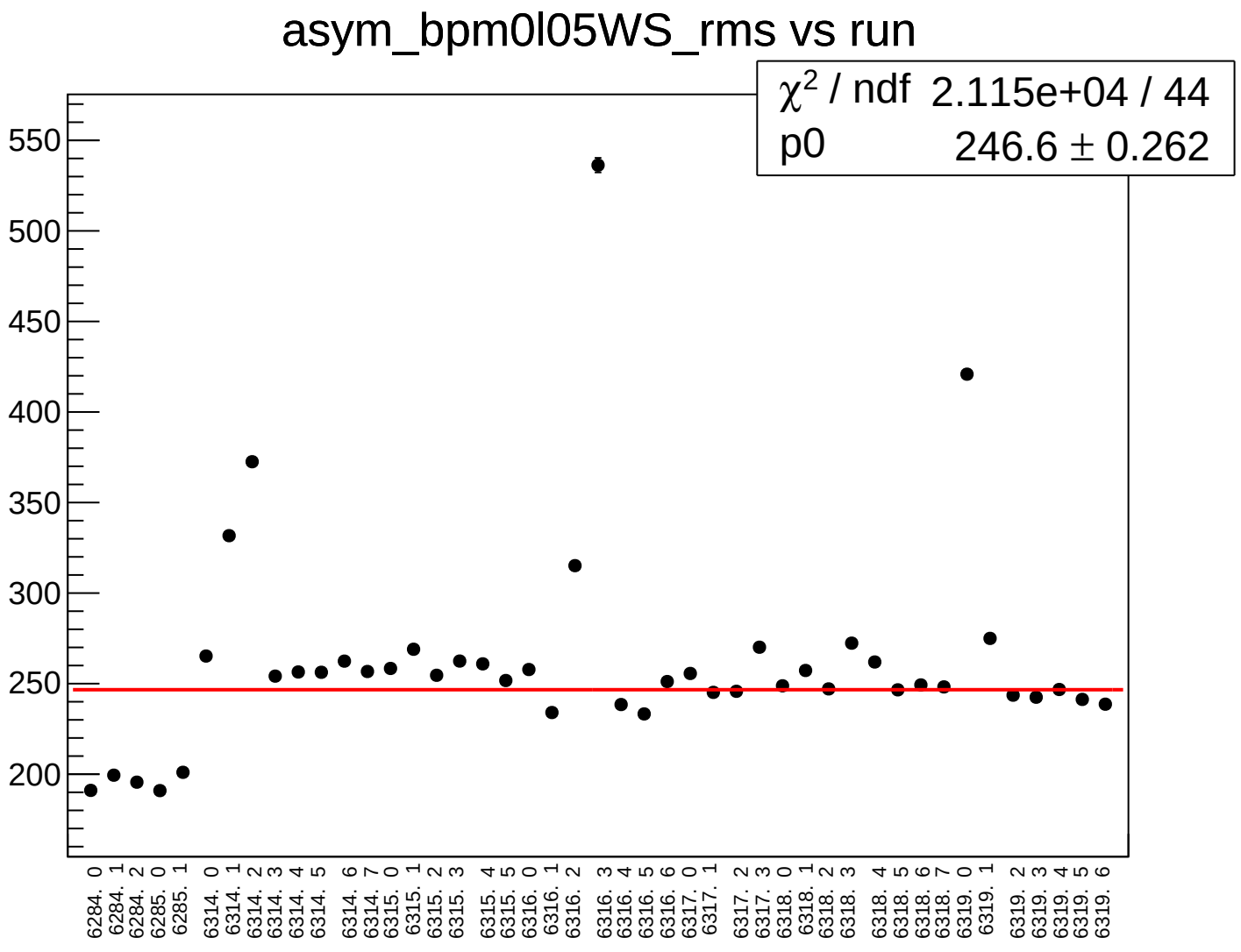

asym_bpm0l04WS_mean vs run
χ² / ndf 33.93 / 44
p0 −852.3 ± 368.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 100.7
Std Dev 0
2
1
0
−1
−2

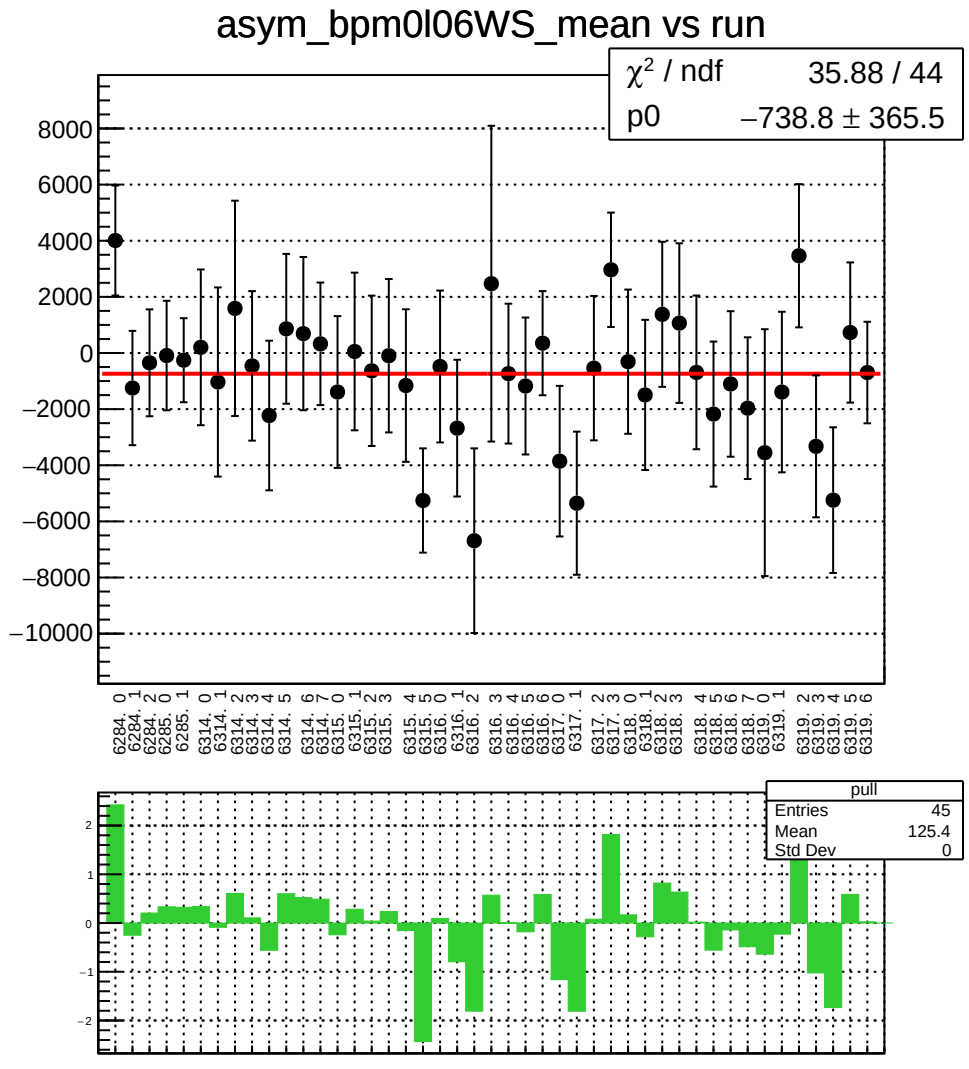

pull1D
Entries 45
Mean −0.02581
Std Dev 0.8679
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

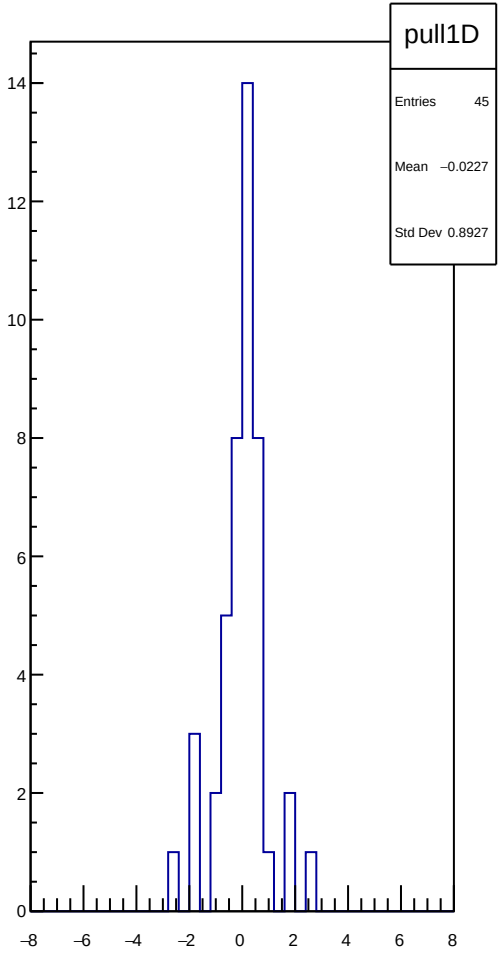

asym_bpm0l04WS_rms vs run
χ² / ndf 2.055e+04 / 44
p0 245.6 ± 0.2609
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

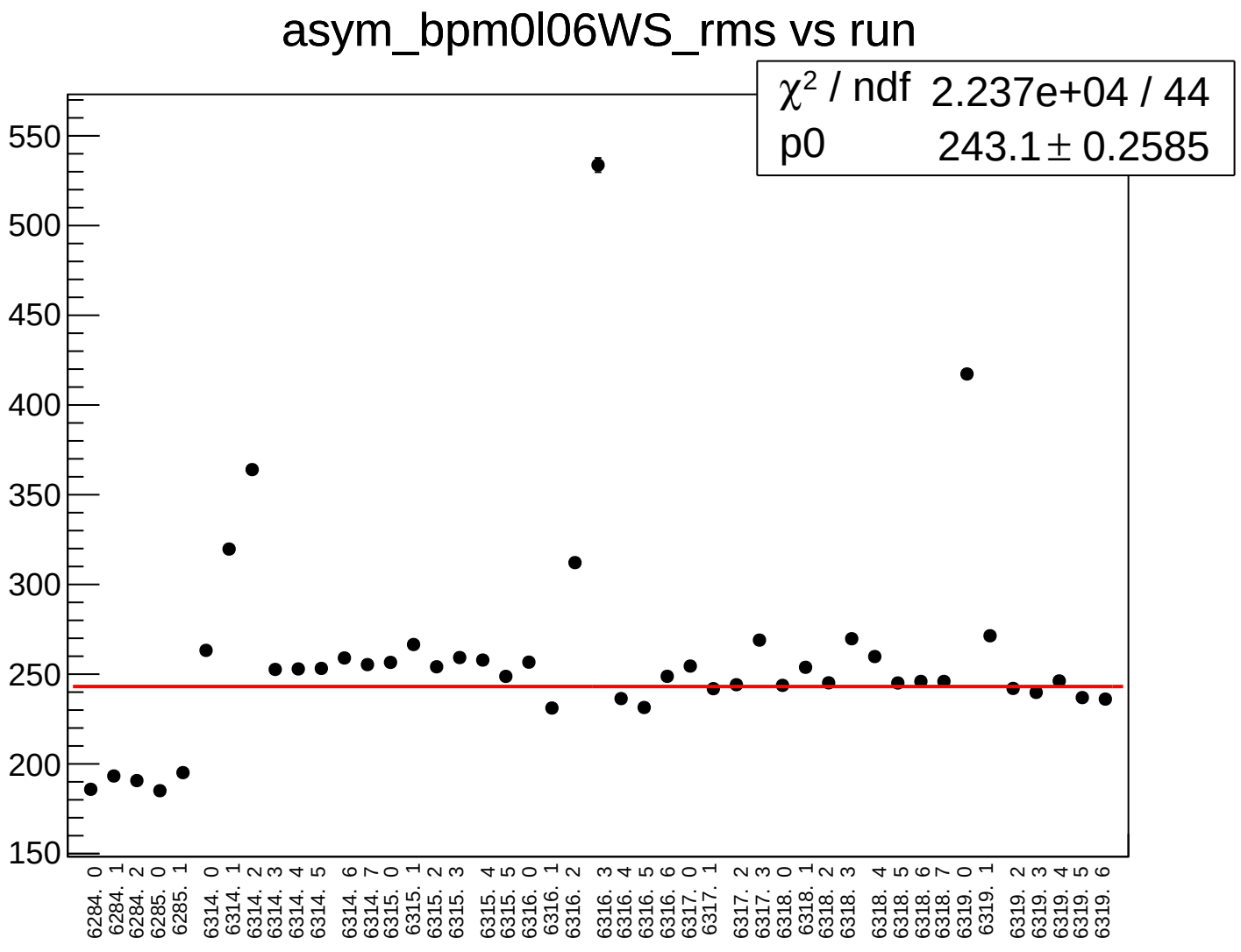

asym_bpm0l05WS_mean vs run
χ² / ndf 35.05 / 44
p0 −639.6 ± 370.6
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 120.2
Std Dev 0
2
1
0
−1
−2

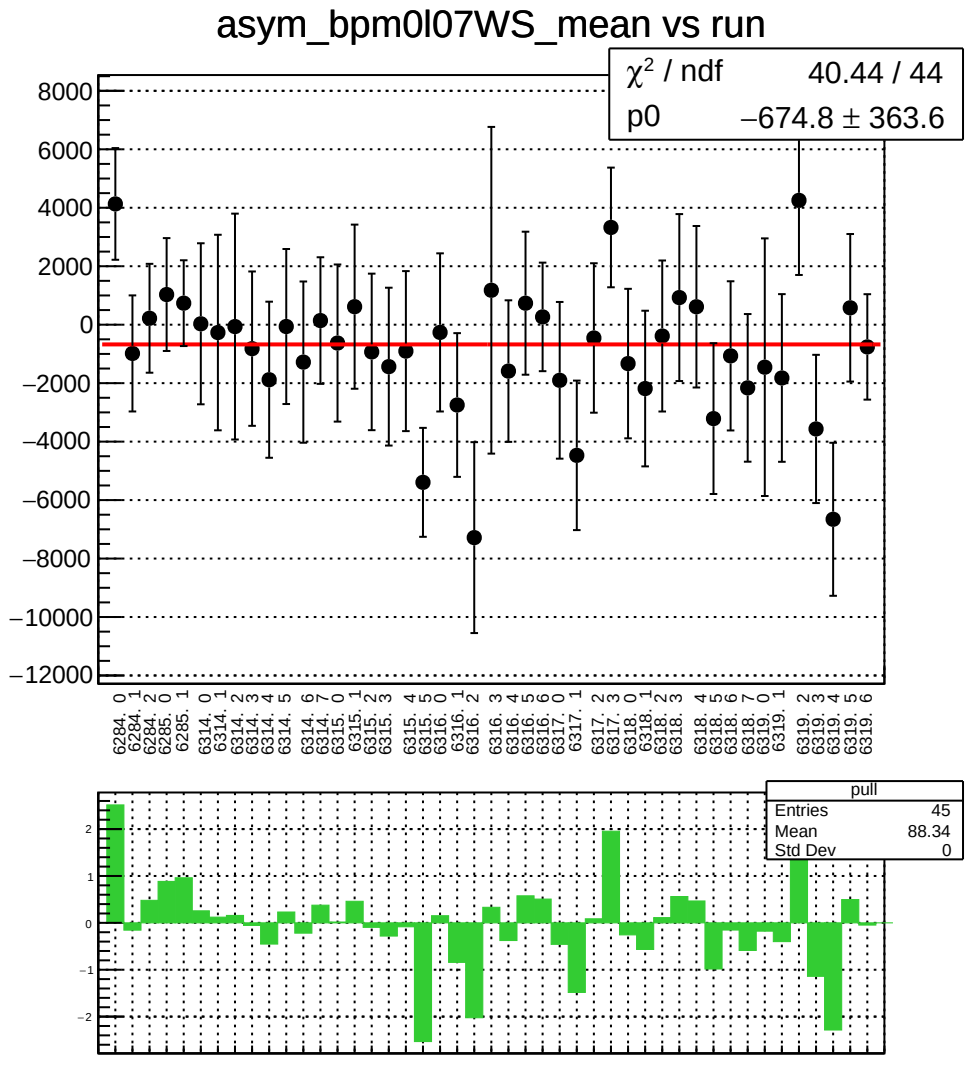

pull1D
Entries 45
Mean −0.02358
Std Dev 0.8822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l05WS_rms vs run
χ² / ndf 2.115e+04 / 44
p0 246.6 ± 0.262
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0l06WS_mean vs run
χ² / ndf 35.88 / 44
p0 −738.8 ± 365.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 125.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.0227
Std Dev 0.8927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l06WS_rms vs run
χ² / ndf 2.237e+04 / 44
p0 243.1 ± 0.2585
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0l07WS_mean vs run
χ² / ndf 40.44 / 44
p0 −674.8 ± 363.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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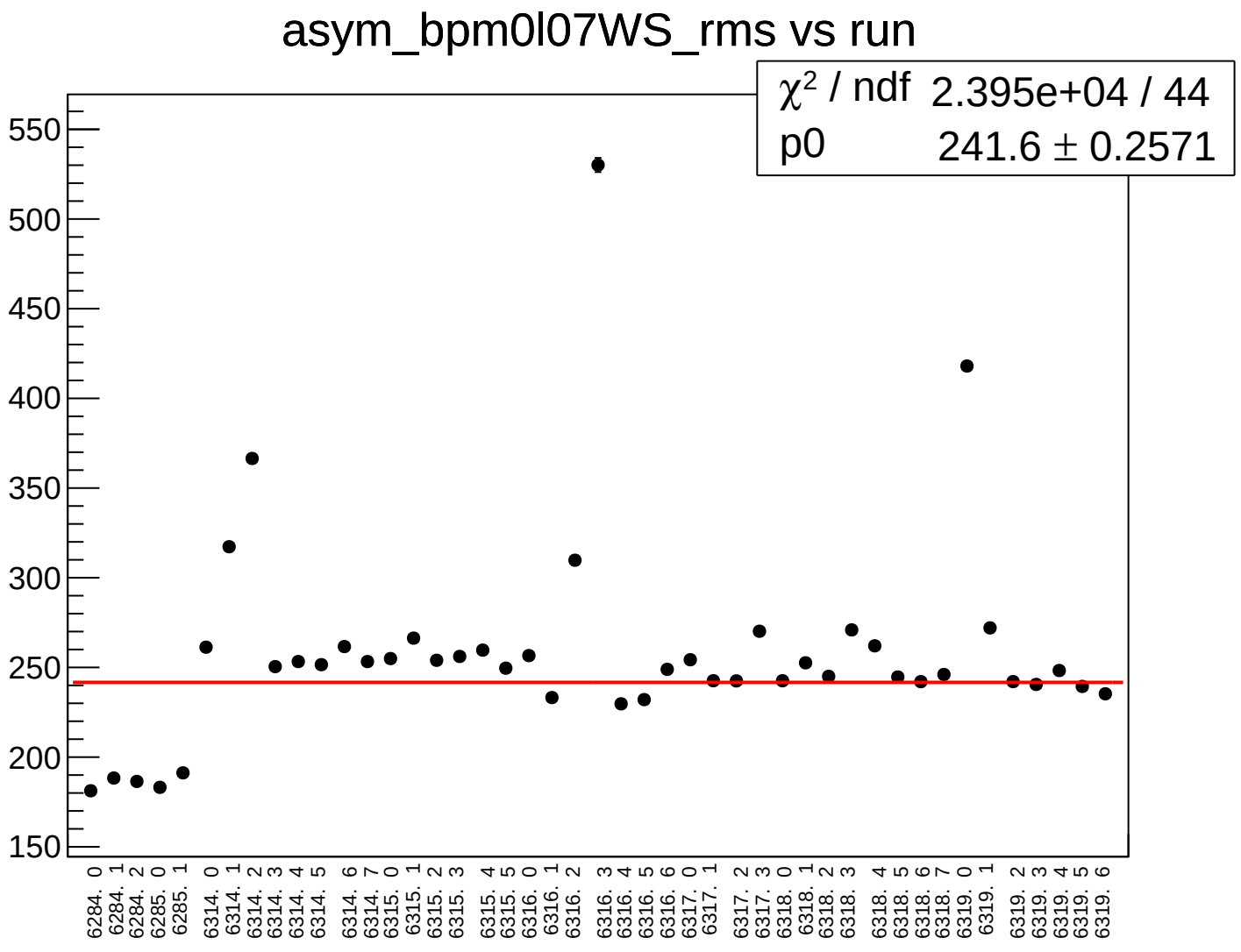
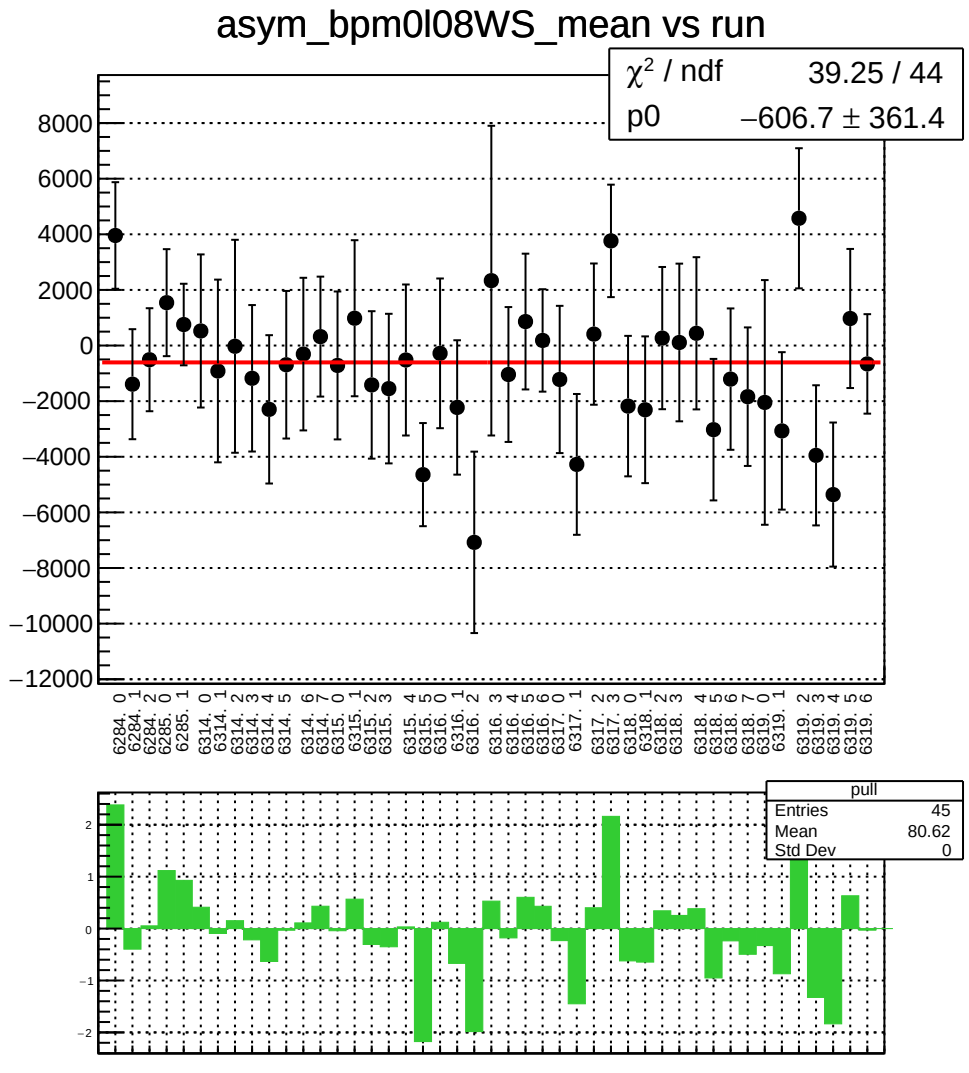
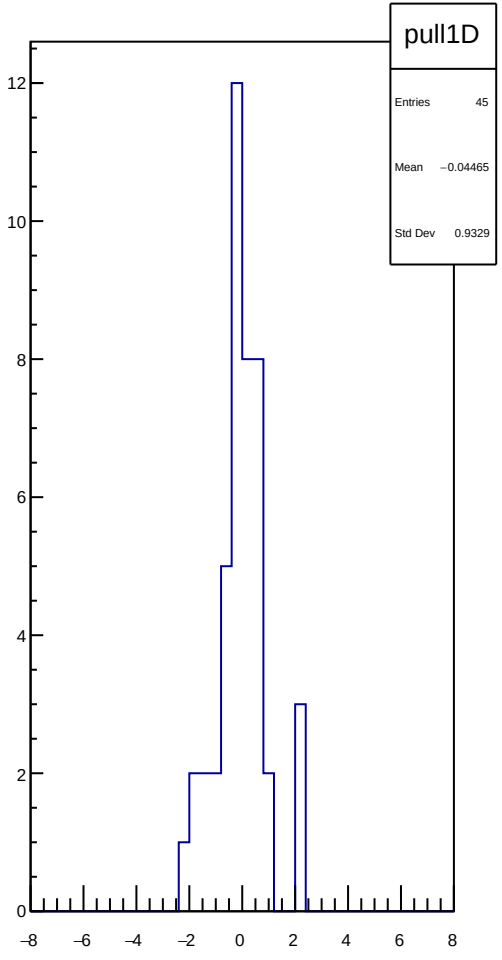
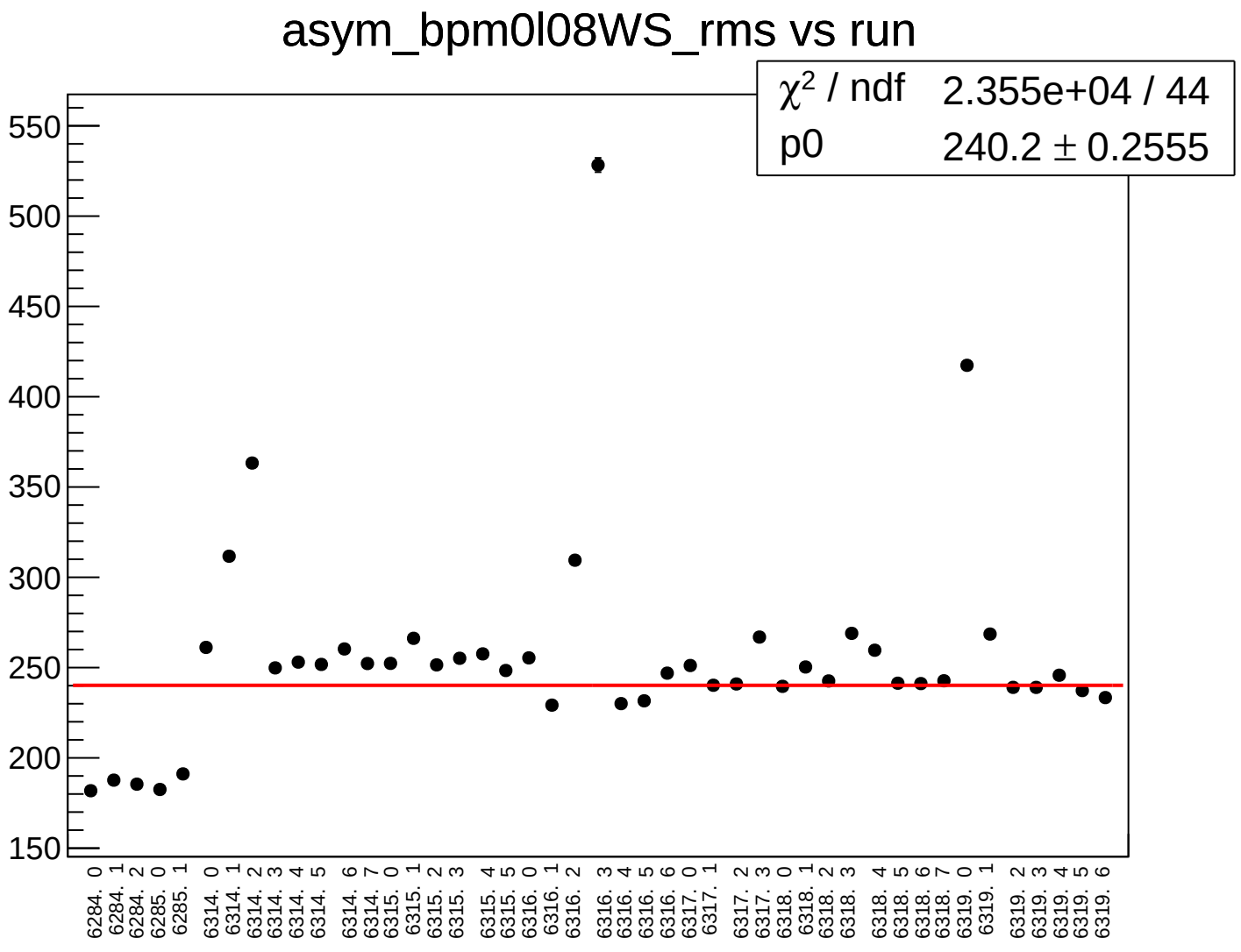
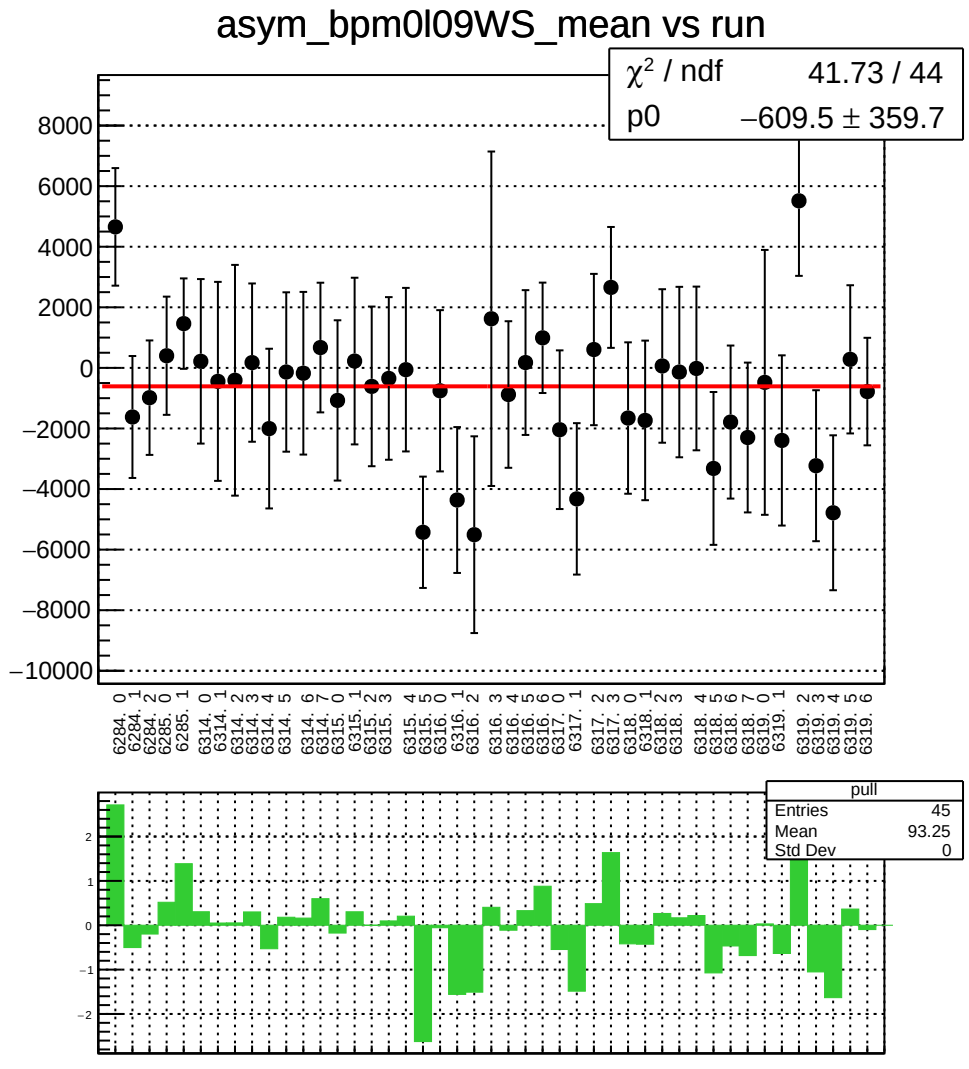
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 88.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04499
Std Dev 0.9469
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l07WS_rms vs run
χ² / ndf 2.395e+04 / 44
p0 241.6 ± 0.2571
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0l08WS_mean vs run
χ² / ndf 39.25 / 44
p0 −606.7 ± 361.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.62
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.04465
Std Dev 0.9329
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l08WS_rms vs run
χ² / ndf 2.355e+04 / 44
p0 240.2 ± 0.2555
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0l09WS_mean vs run
χ² / ndf 41.73 / 44
p0 −609.5 ± 359.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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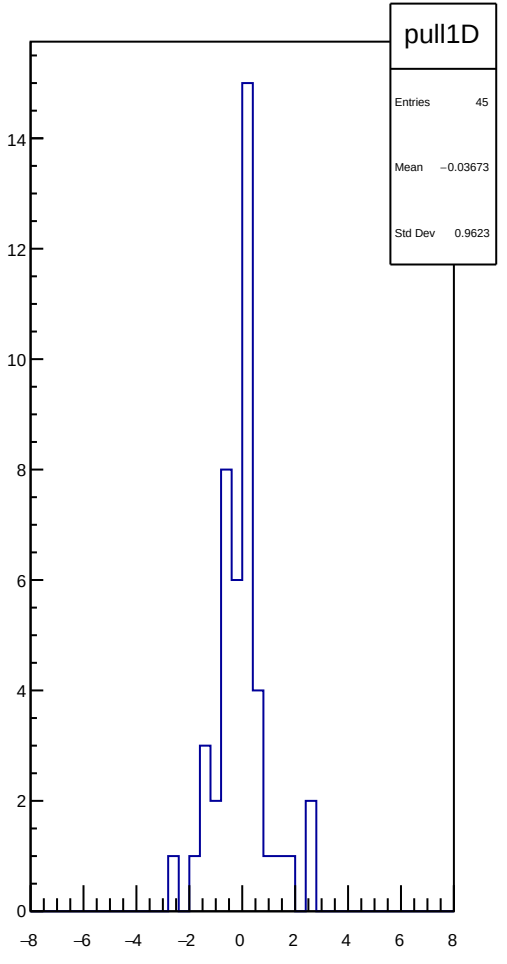
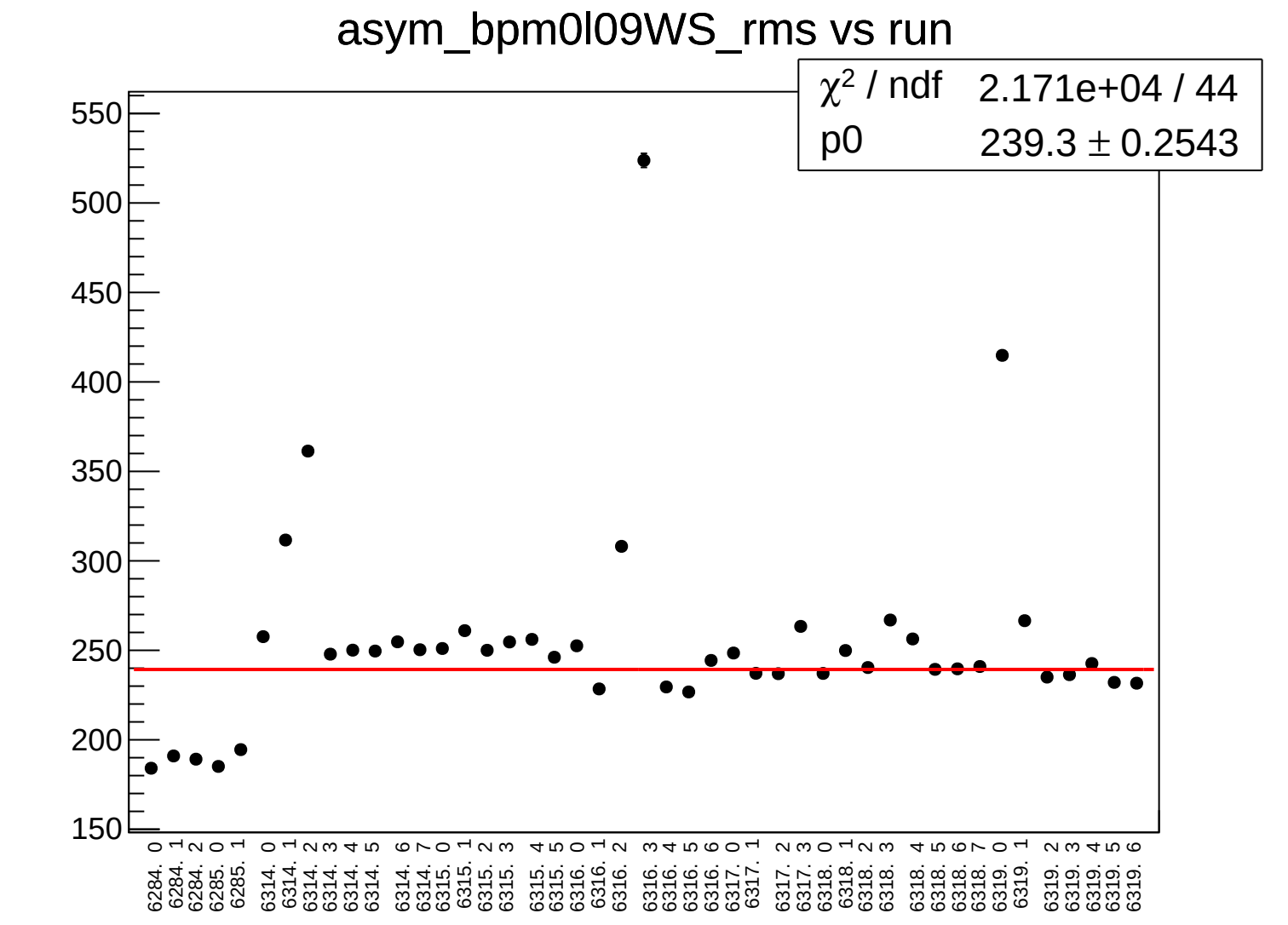
6319. 5
6319. 6
pull
Entries 45
Mean 93.25
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03673
Std Dev 0.9623
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ² / ndf 2.171e+04 / 44
p0 239.3 ± 0.2543
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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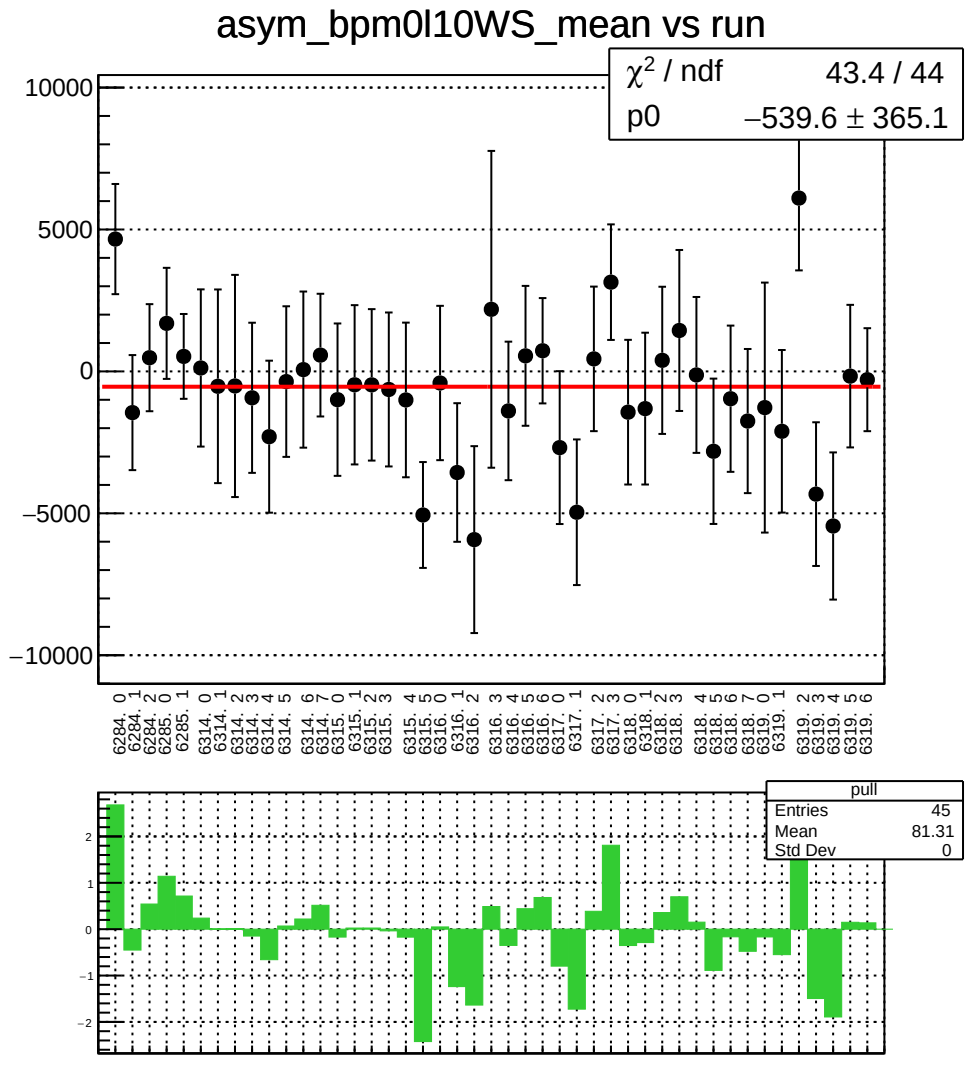
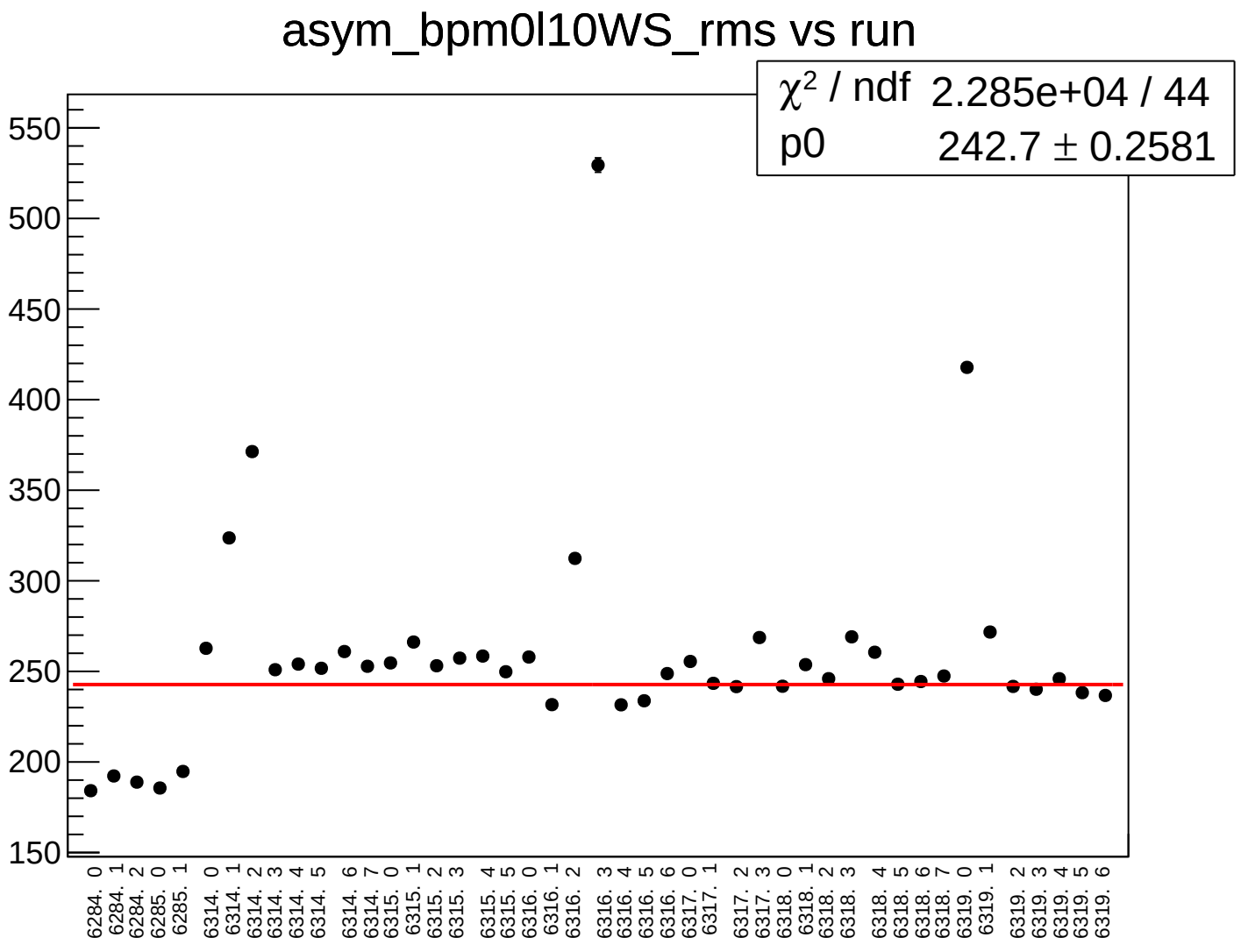
6319. 5
6319. 6


asym_bpm0l10WS_mean vs run
χ² / ndf 43.4 / 44
p0 −539.6 ± 365.1
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 81.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04298
Std Dev 0.9811
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ² / ndf 2.285e+04 / 44
p0 242.7 ± 0.2581
550
500
450
400
350
300
250
200
150
6284. 0
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6284. 2
6285. 0
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6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
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6315. 4
6315. 5
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6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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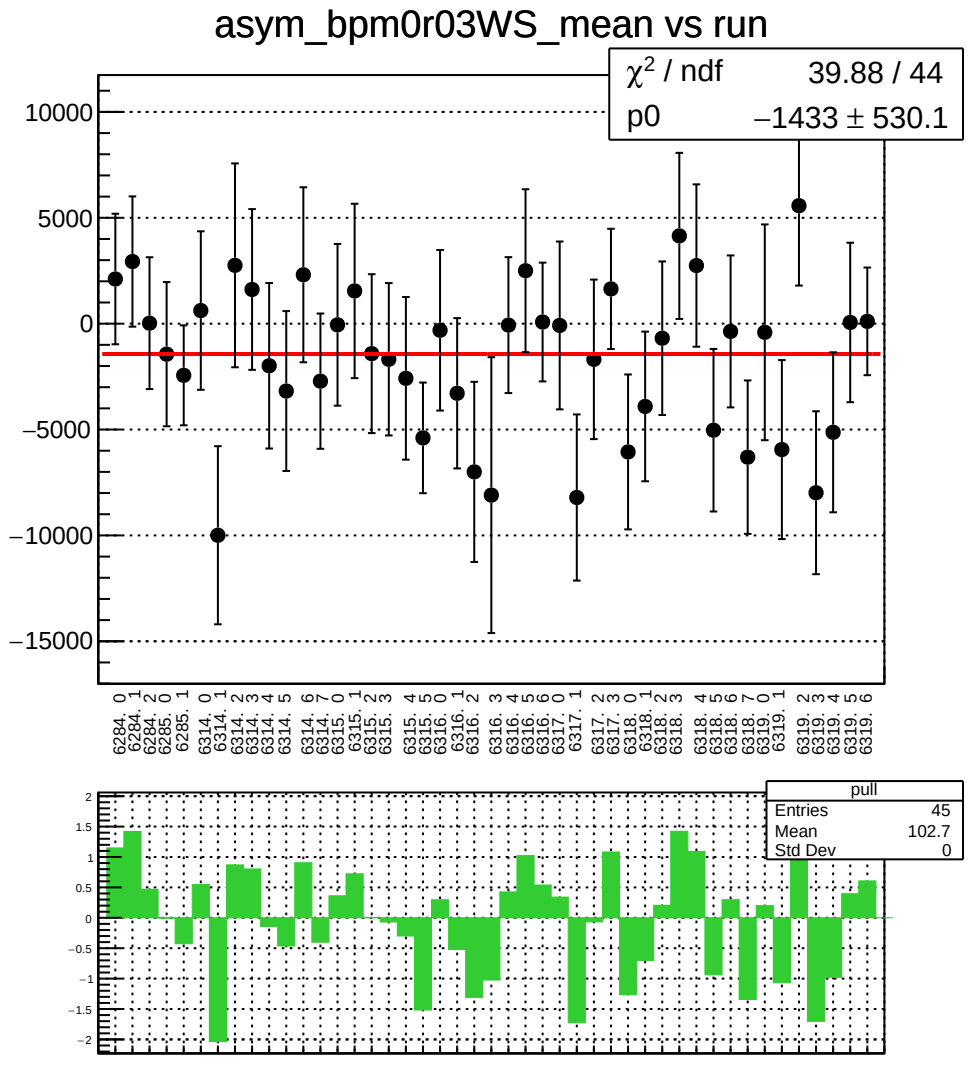
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0r03WS_mean vs run
χ² / ndf 39.88 / 44
p0 −1433 ± 530.1
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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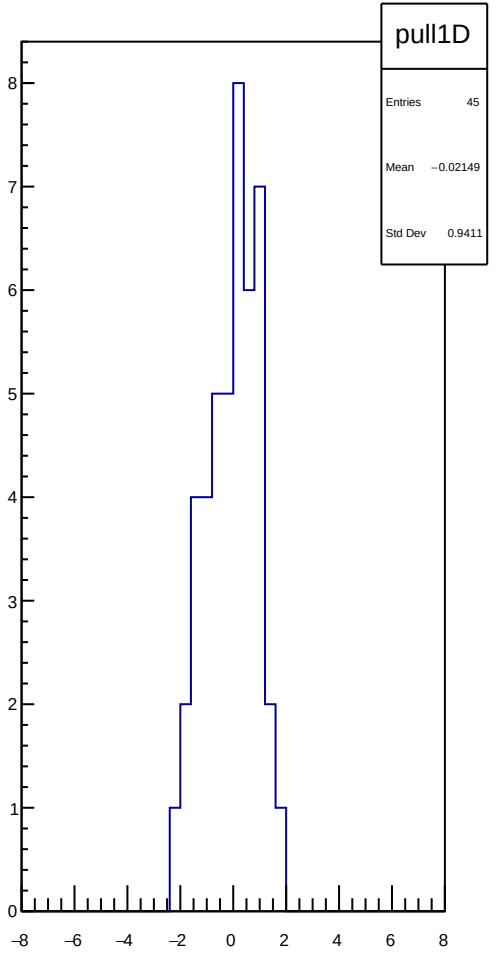
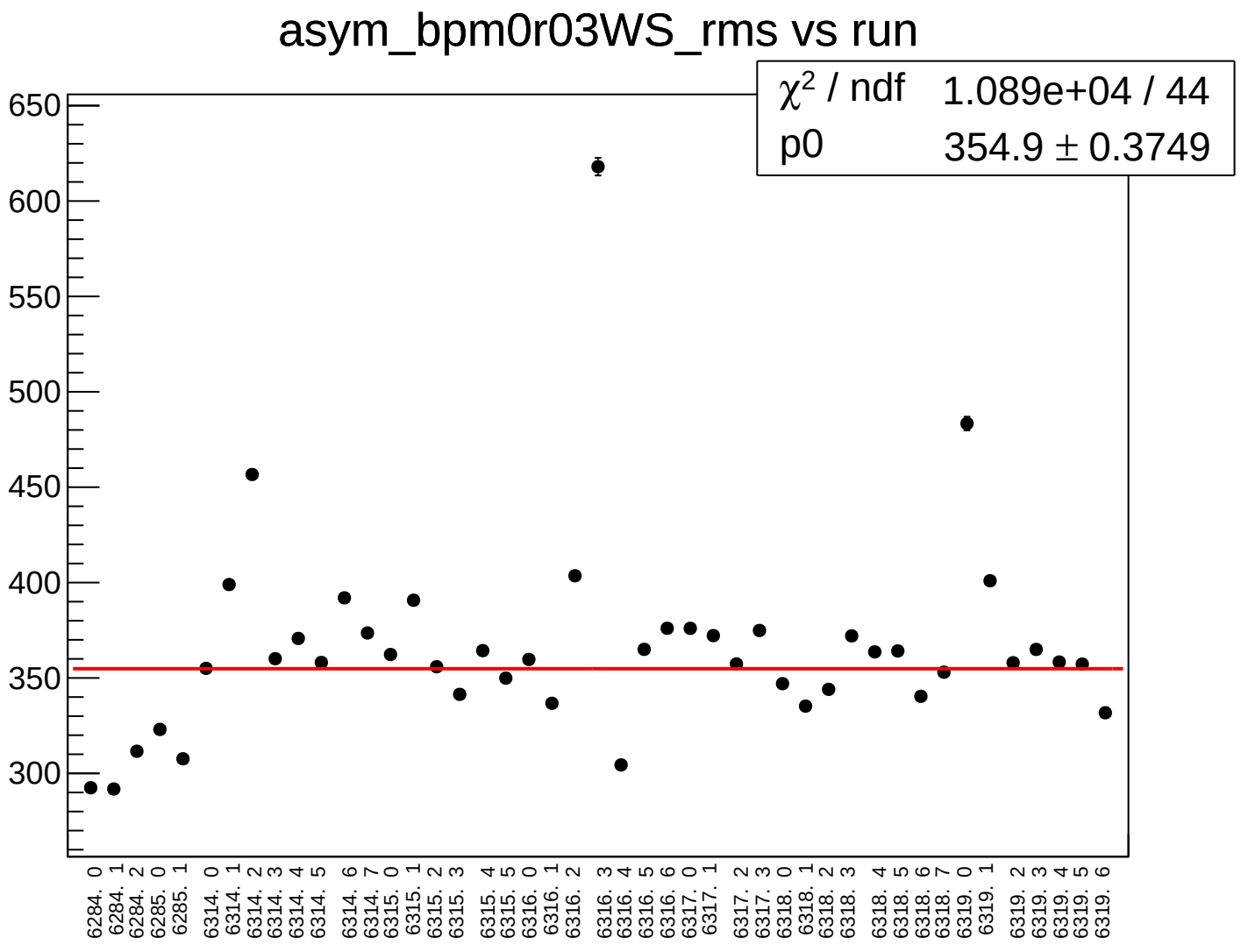
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 102.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02149
Std Dev 0.9411
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ² / ndf 1.089e+04 / 44
p0 354.9 ± 0.3749
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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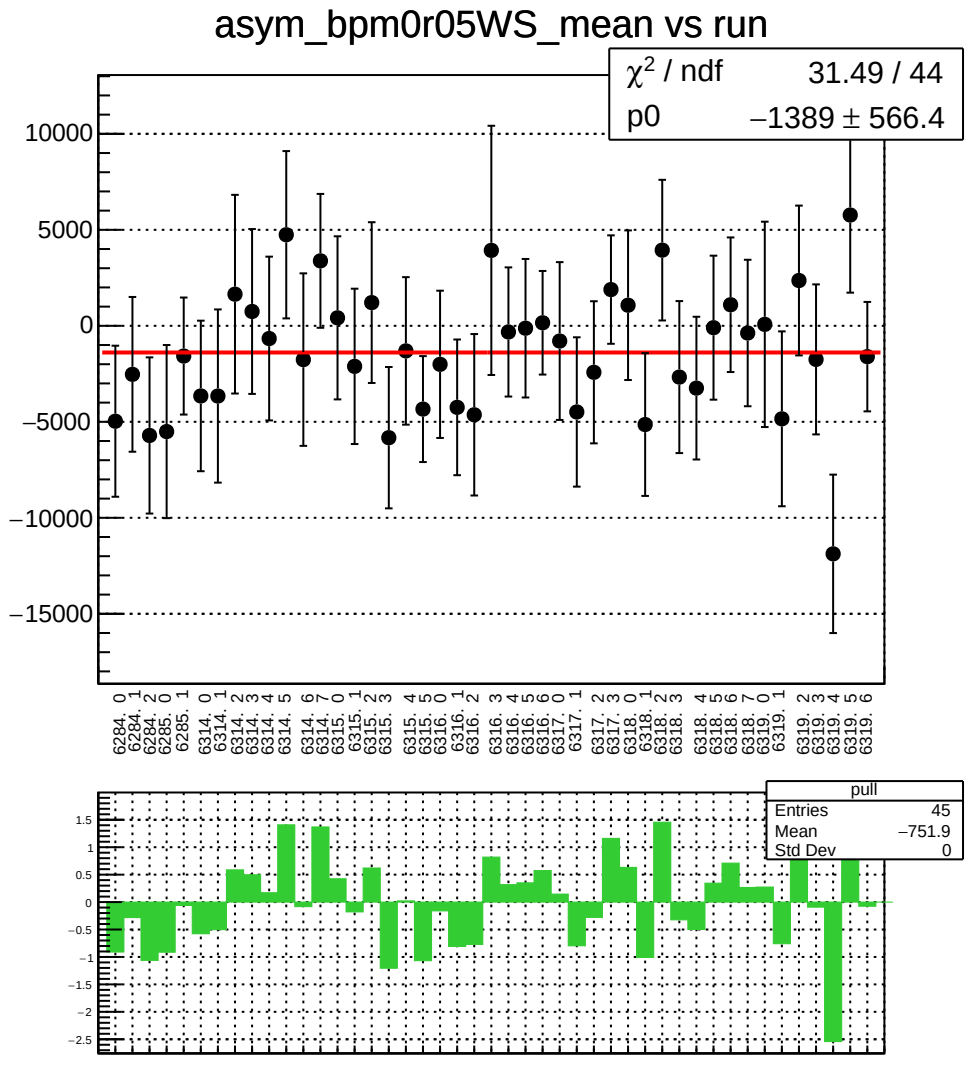
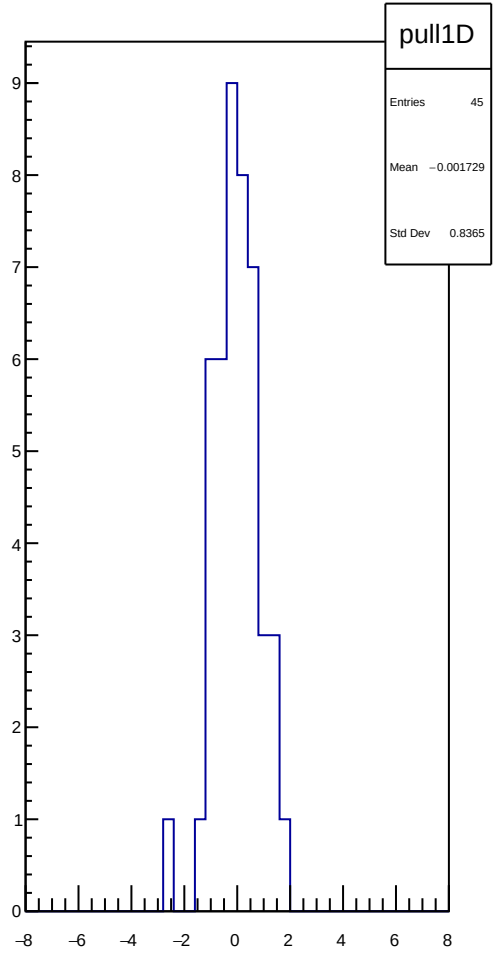
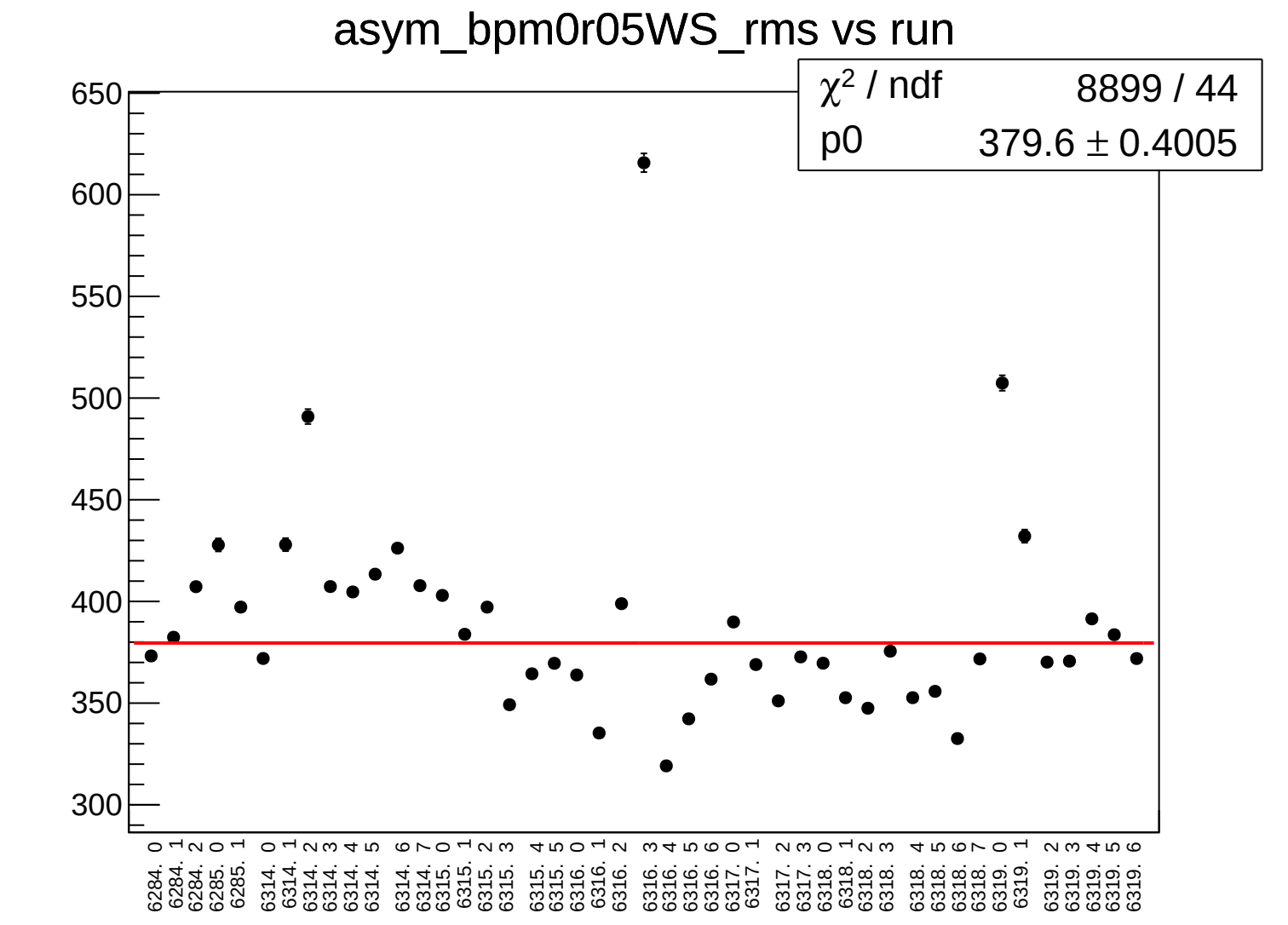
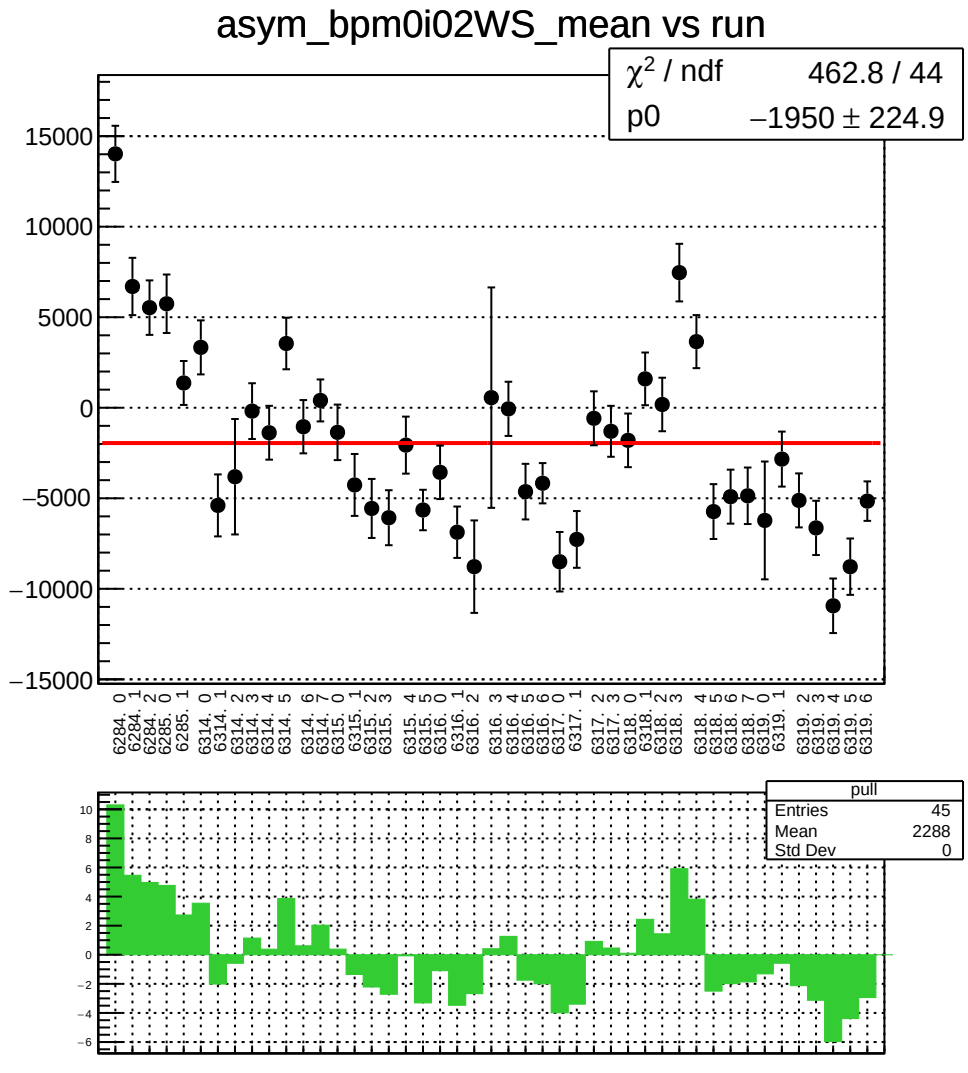
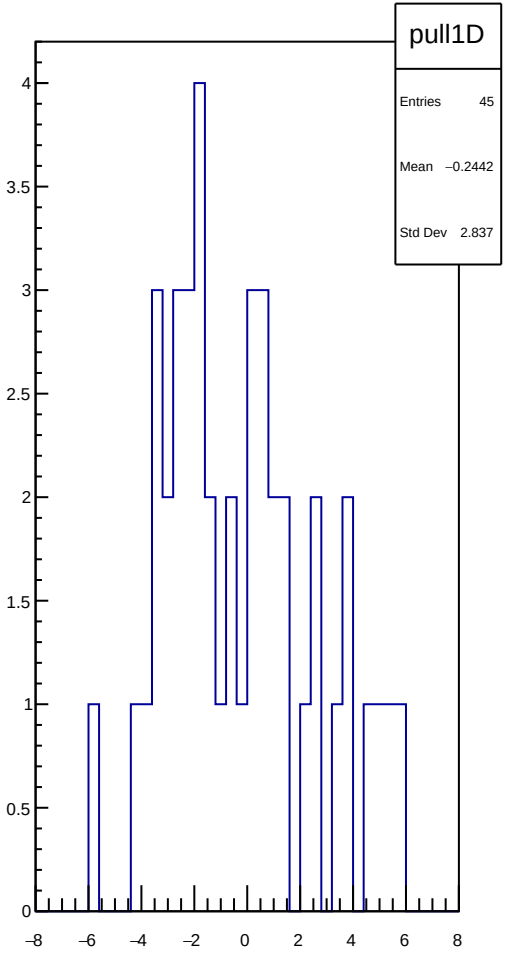
6319. 4
6319. 5
6319. 6

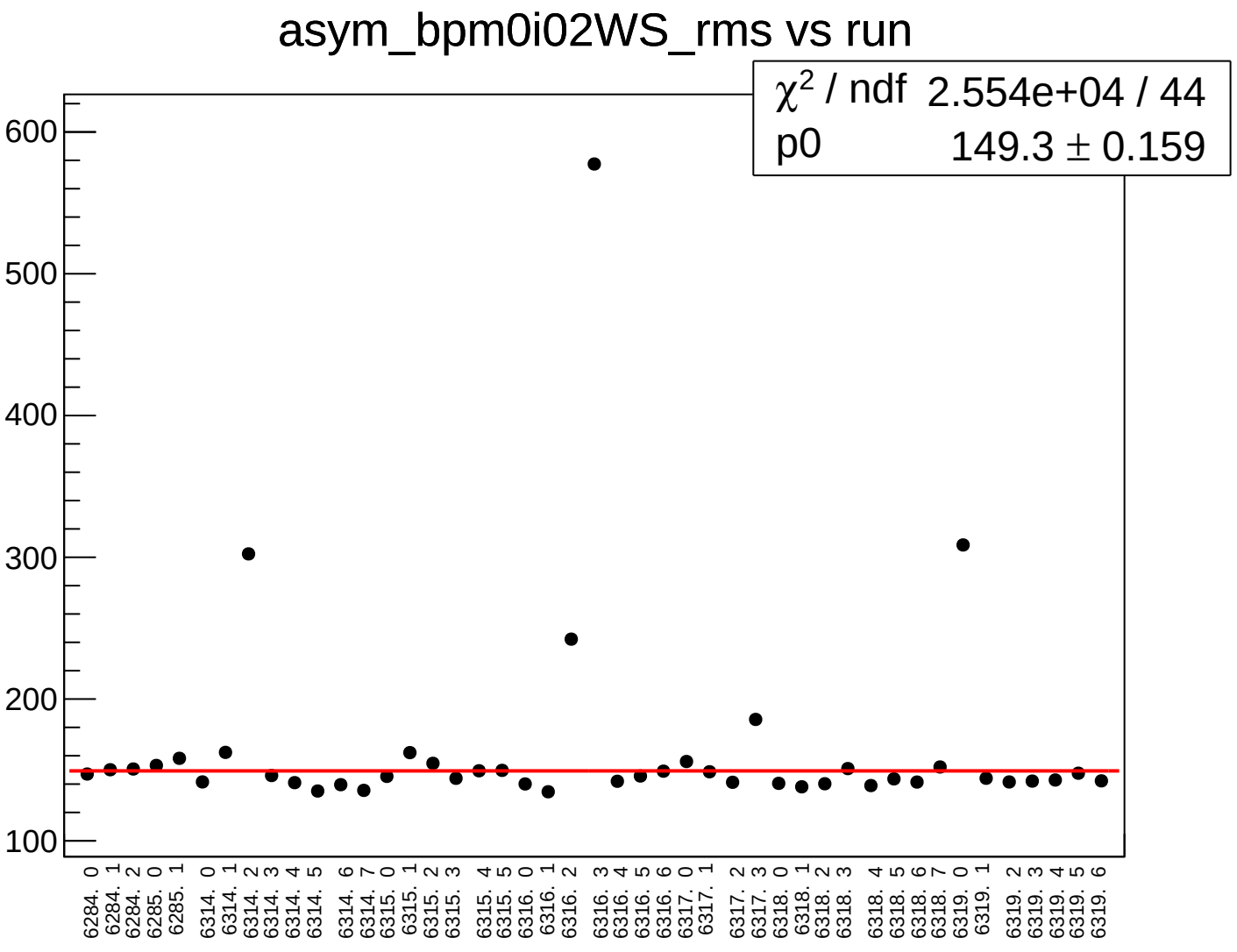

asym_bpm0r05WS_mean vs run
χ² / ndf 31.49 / 44
p0 −1389 ± 566.4
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −751.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

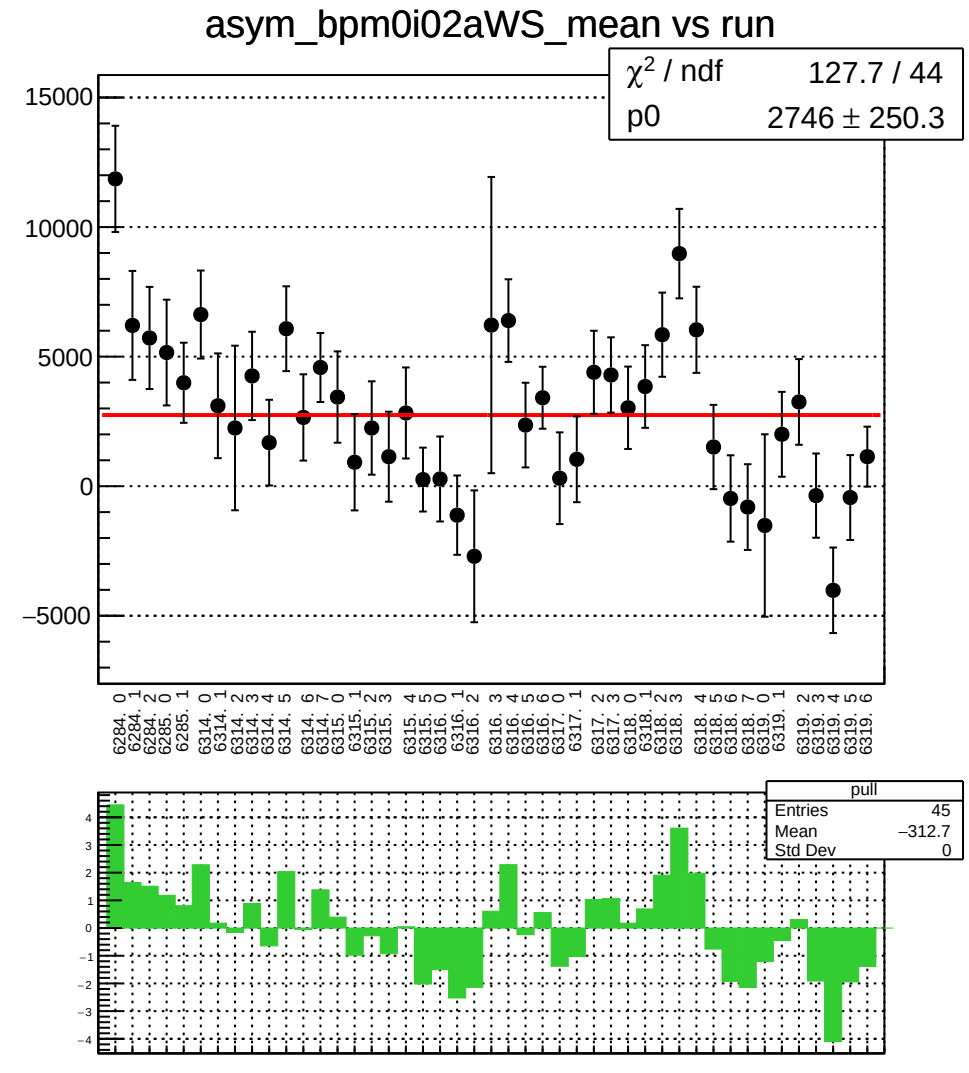

pull1D
Entries 45
Mean −0.001729
Std Dev 0.8365
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

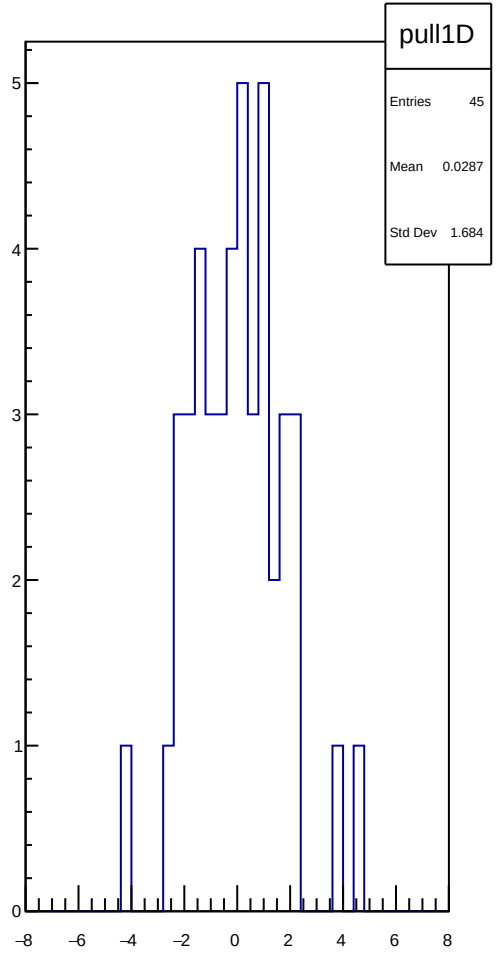

asym_bpm0r05WS_rms vs run
χ² / ndf 8899 / 44
p0 379.6 ± 0.4005
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

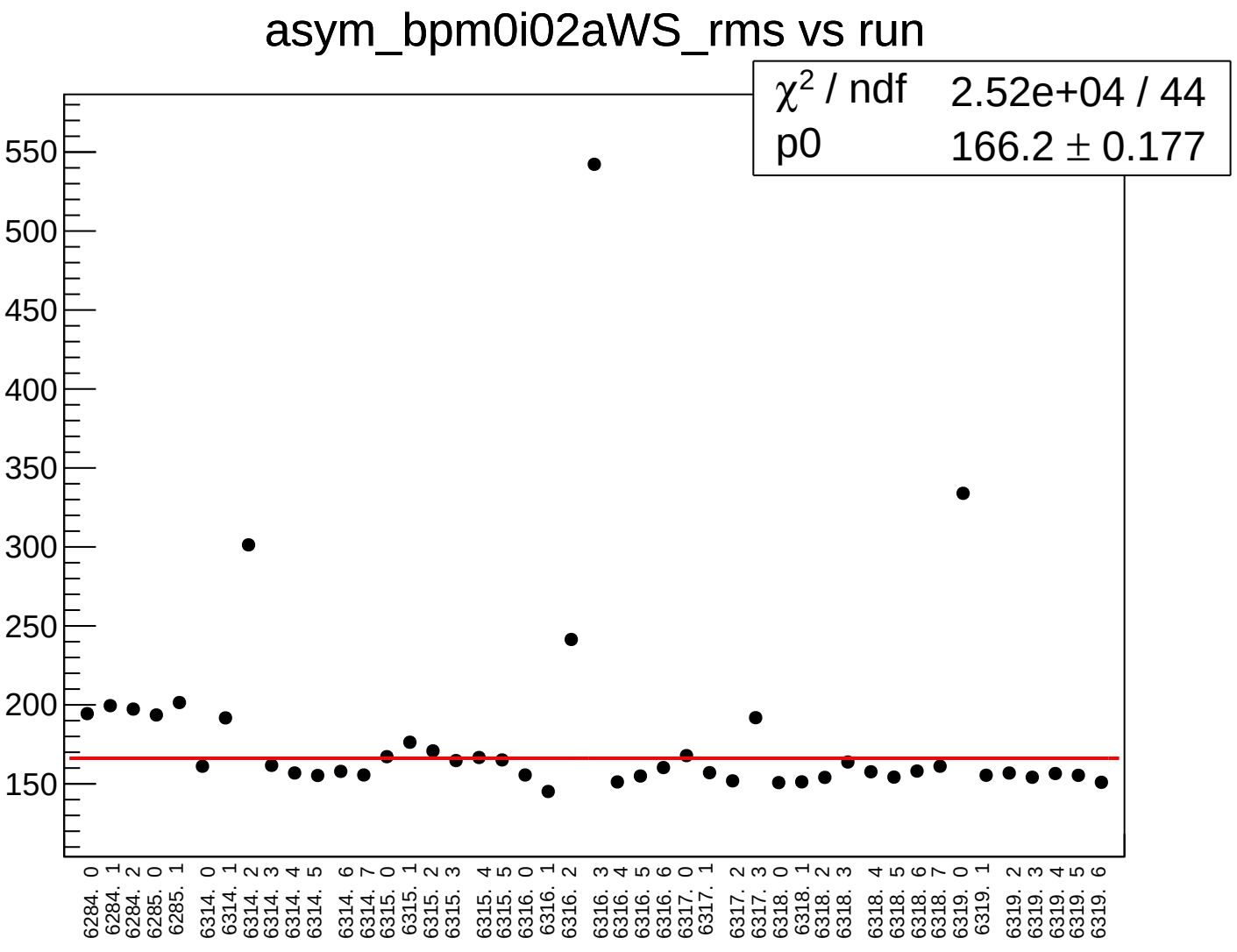

asym_bpm0i02WS_mean vs run
χ² / ndf 462.8 / 44
p0 −1950 ± 224.9
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2288
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

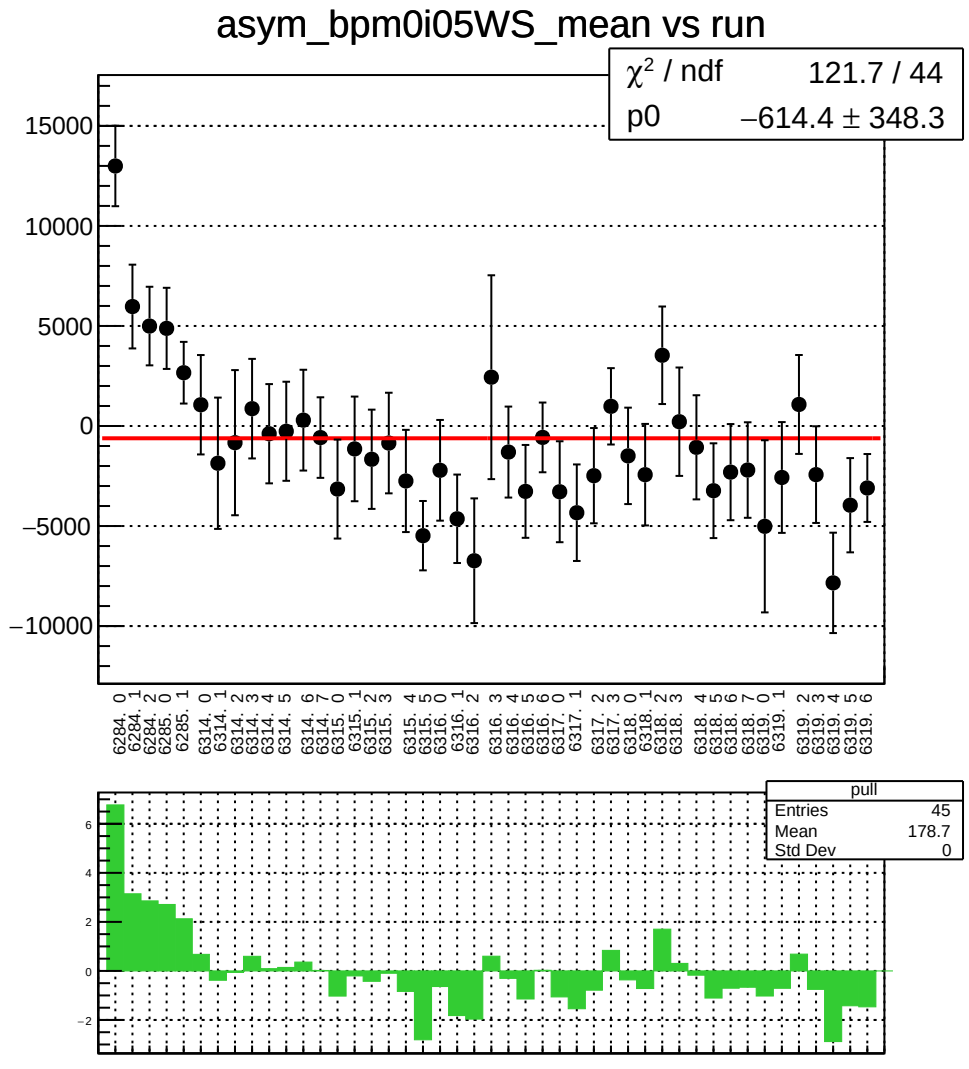

pull1D
Entries 45
Mean −0.2442
Std Dev 2.837
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

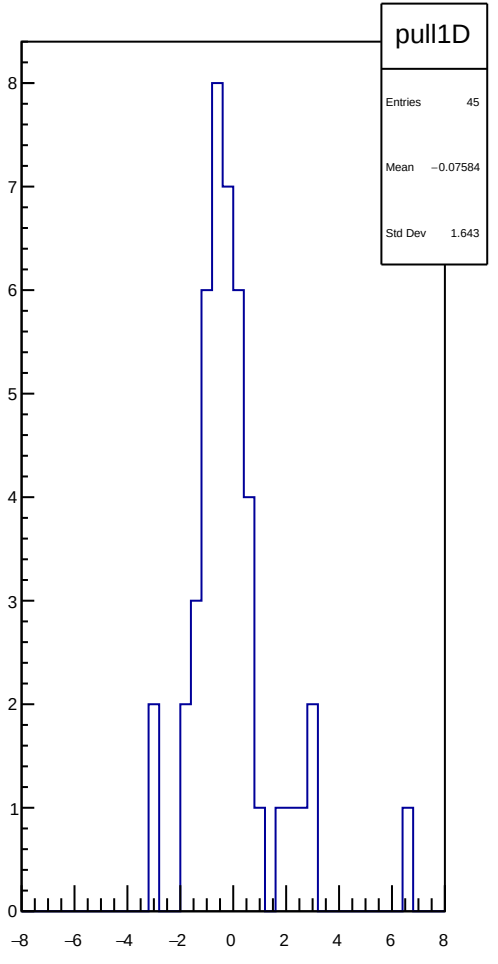

asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.554e+04 / 44
p0 149.3 ± 0.159
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

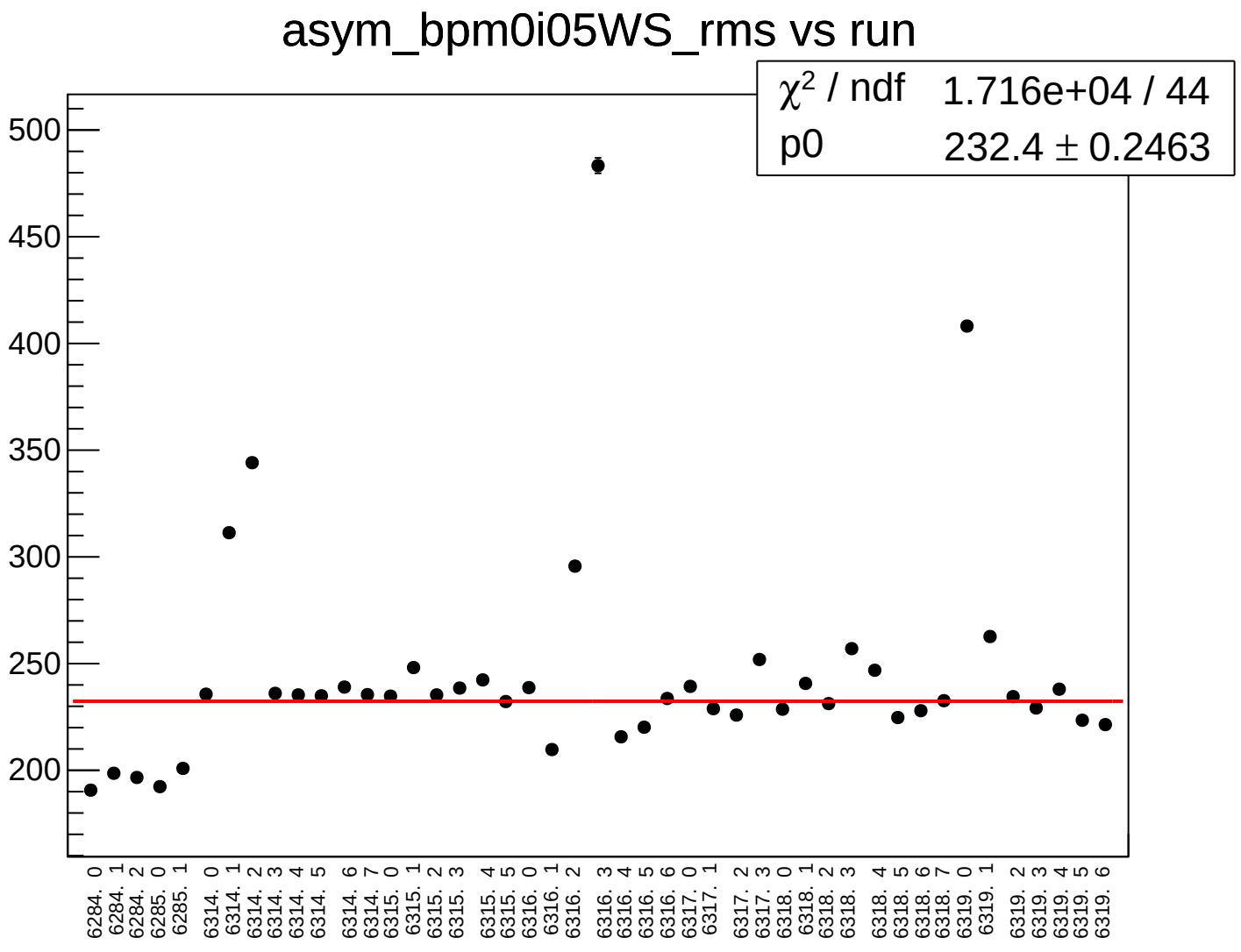

asym_bpm0i02aWS_mean vs run
χ² / ndf 127.7 / 44
p0 2746 ± 250.3
15000
10000
5000
0
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −312.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

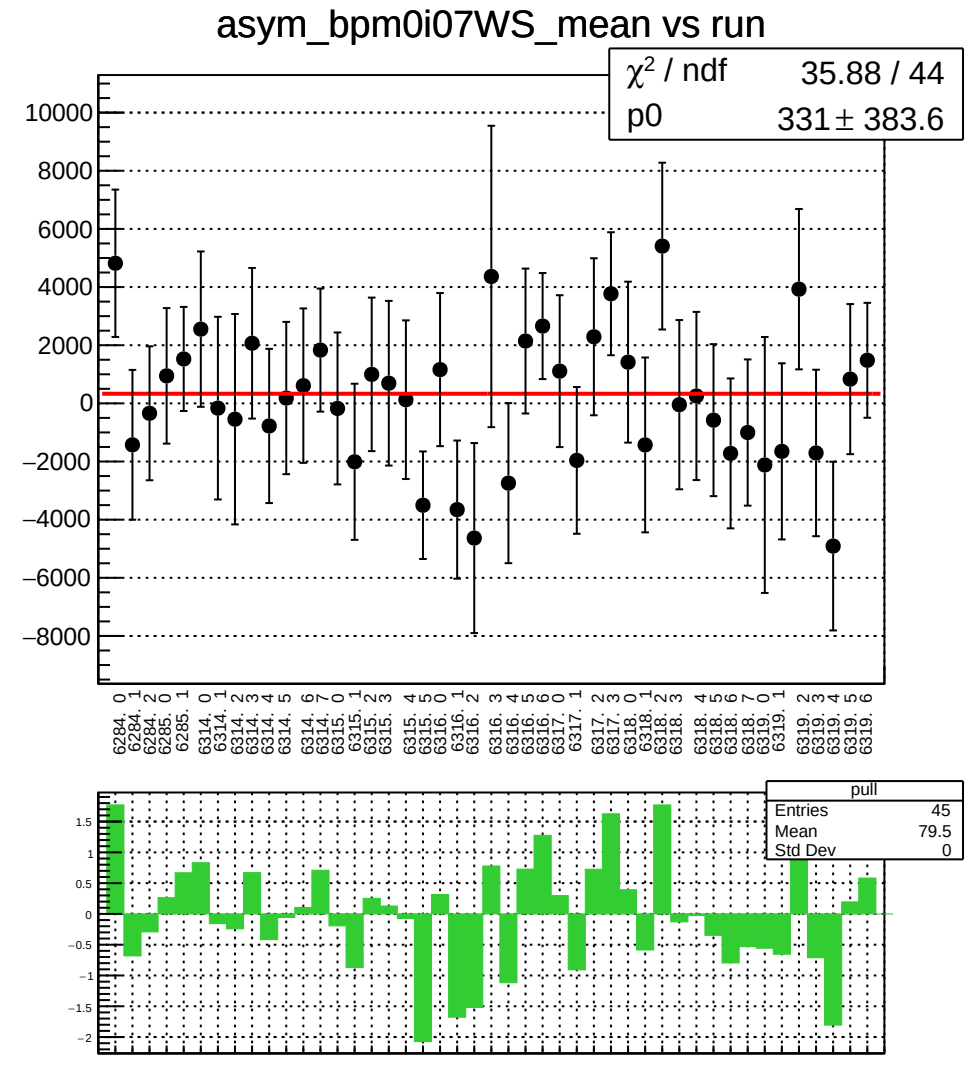

pull1D
Entries 45
Mean 0.0287
Std Dev 1.684
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

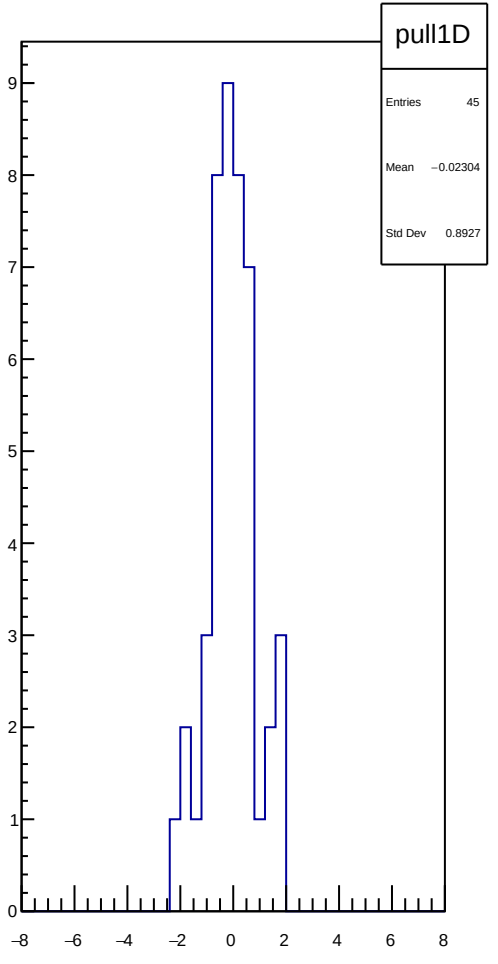

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.52e+04 / 44
p0 166.2 ± 0.177
550
500
450
400
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

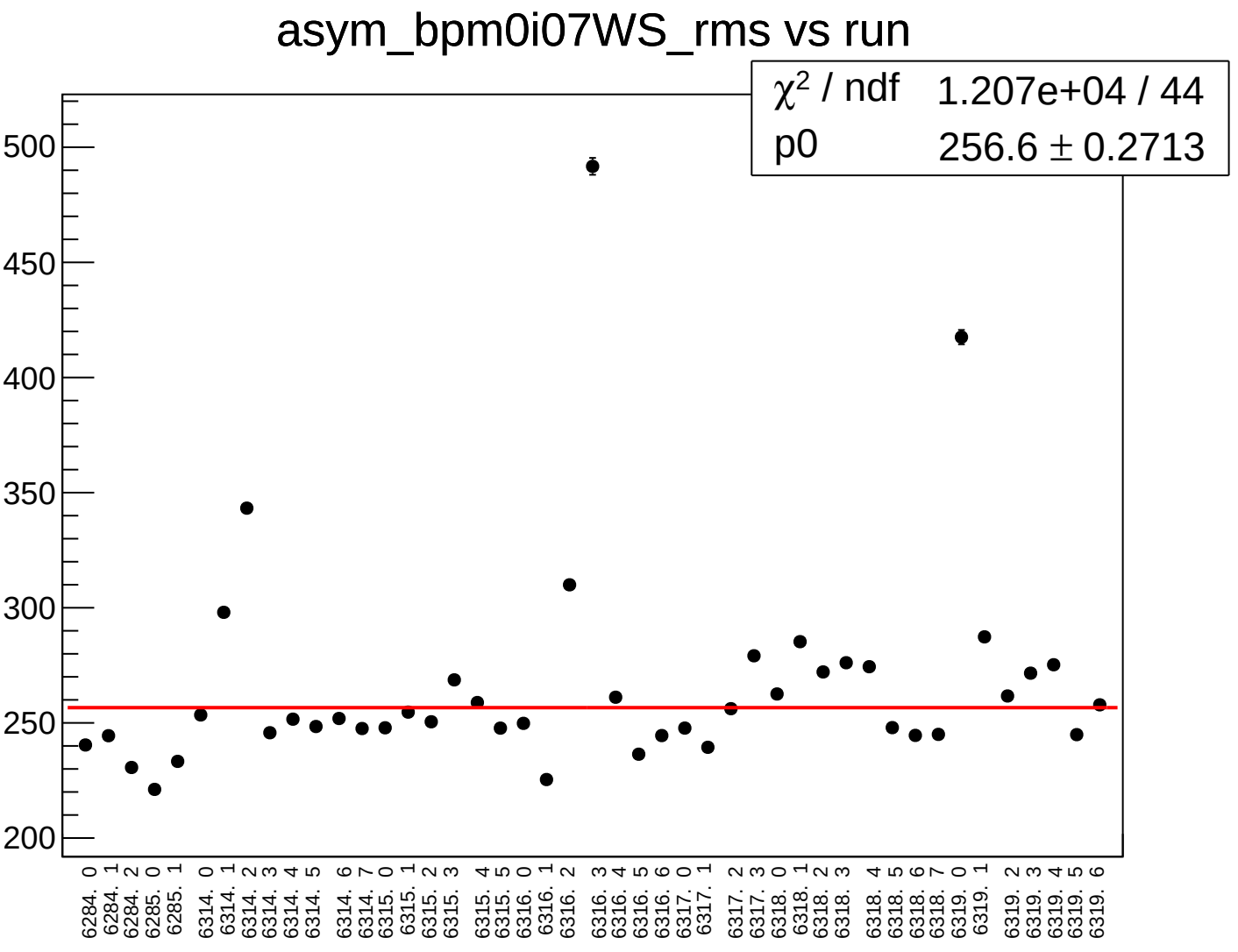

asym_bpm0i05WS_mean vs run
χ² / ndf 121.7 / 44
p0 −614.4 ± 348.3
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 178.7
Std Dev 0
6
4
2
0
−2


pull1D
Entries 45
Mean −0.07584
Std Dev 1.643
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1.716e+04 / 44
p0 232.4 ± 0.2463
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm0i07WS_mean vs run
χ² / ndf 35.88 / 44
p0 331 ± 383.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 79.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02304
Std Dev 0.8927
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.207e+04 / 44
p0 256.6 ± 0.2713
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6318. 4
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6318. 6
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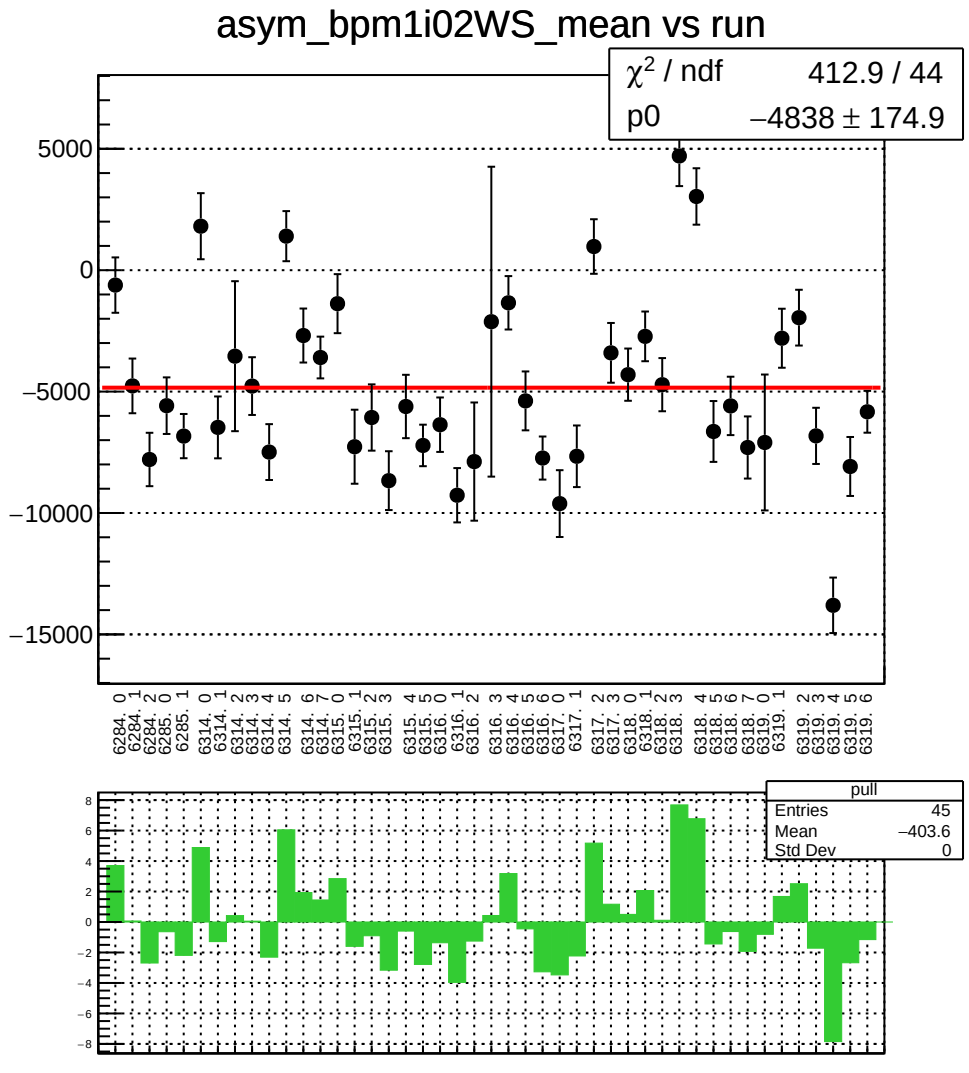
6319. 3
6319. 4
6319. 5
6319. 6


asym_bpm1i02WS_mean vs run
χ² / ndf 412.9 / 44
p0 −4838 ± 174.9
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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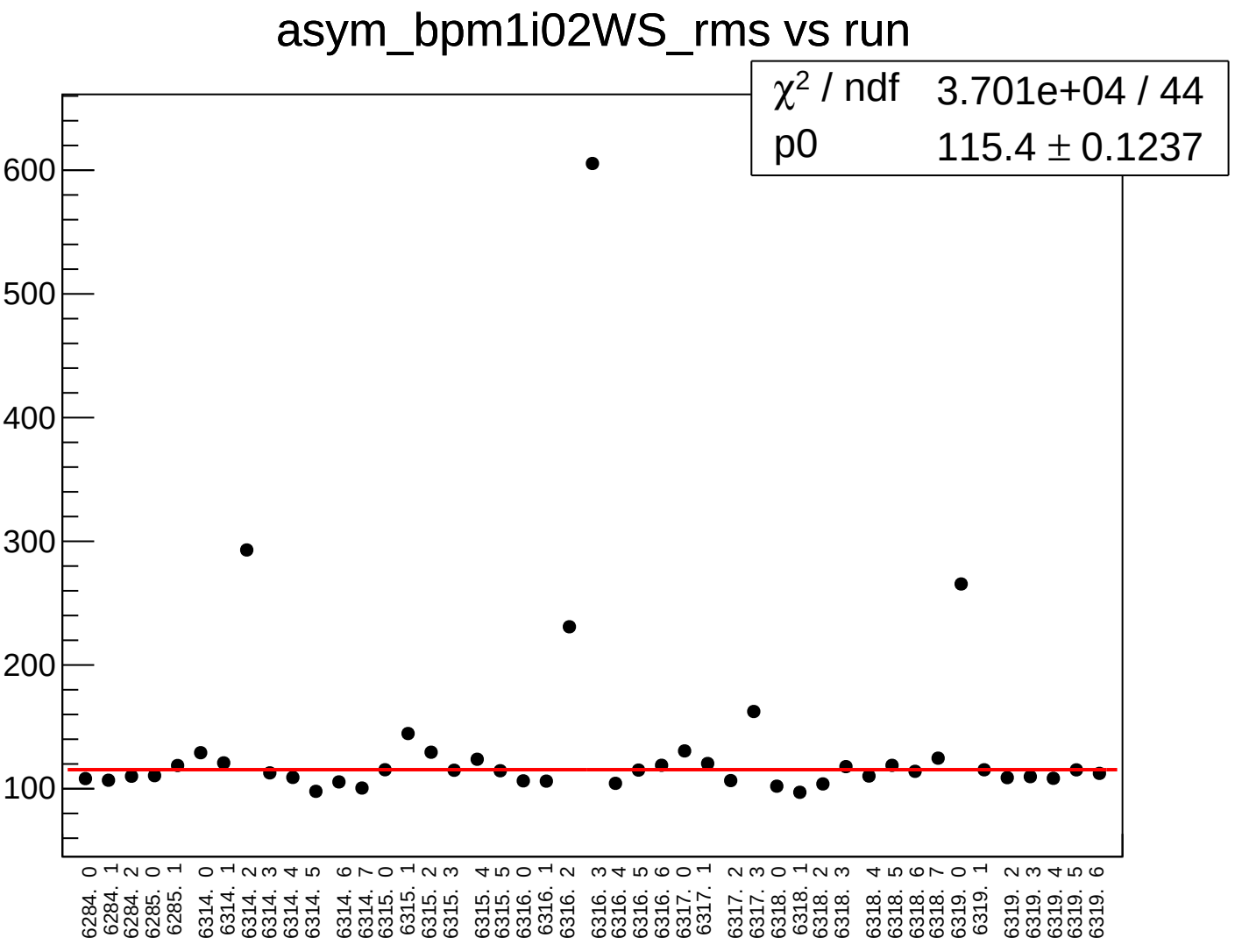
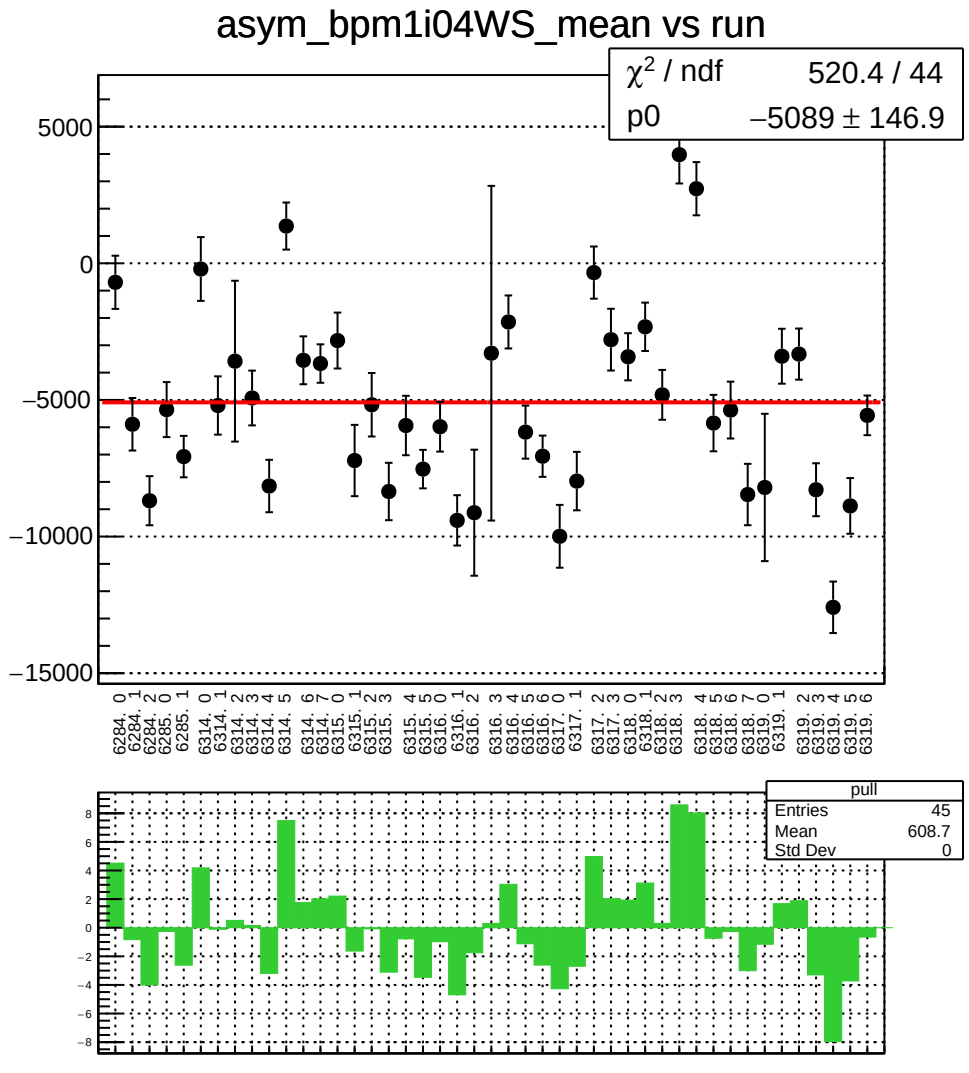
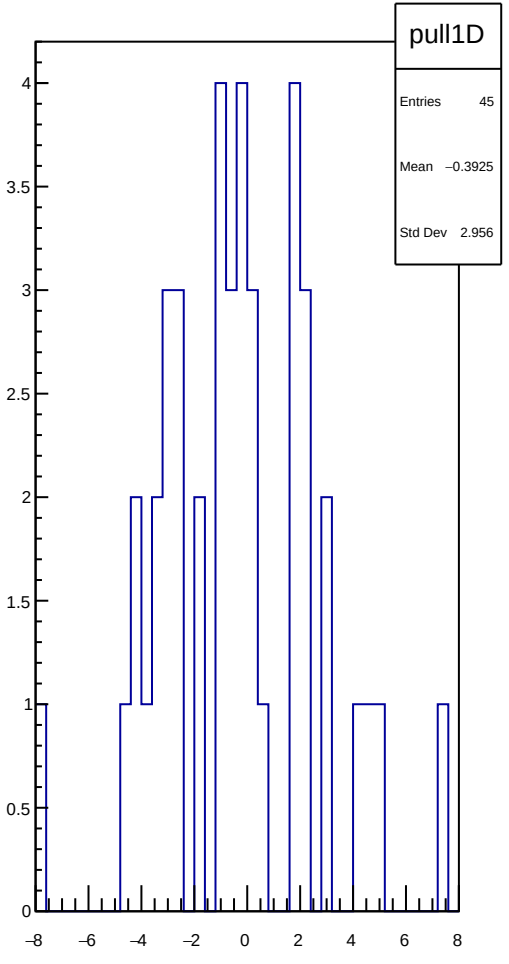
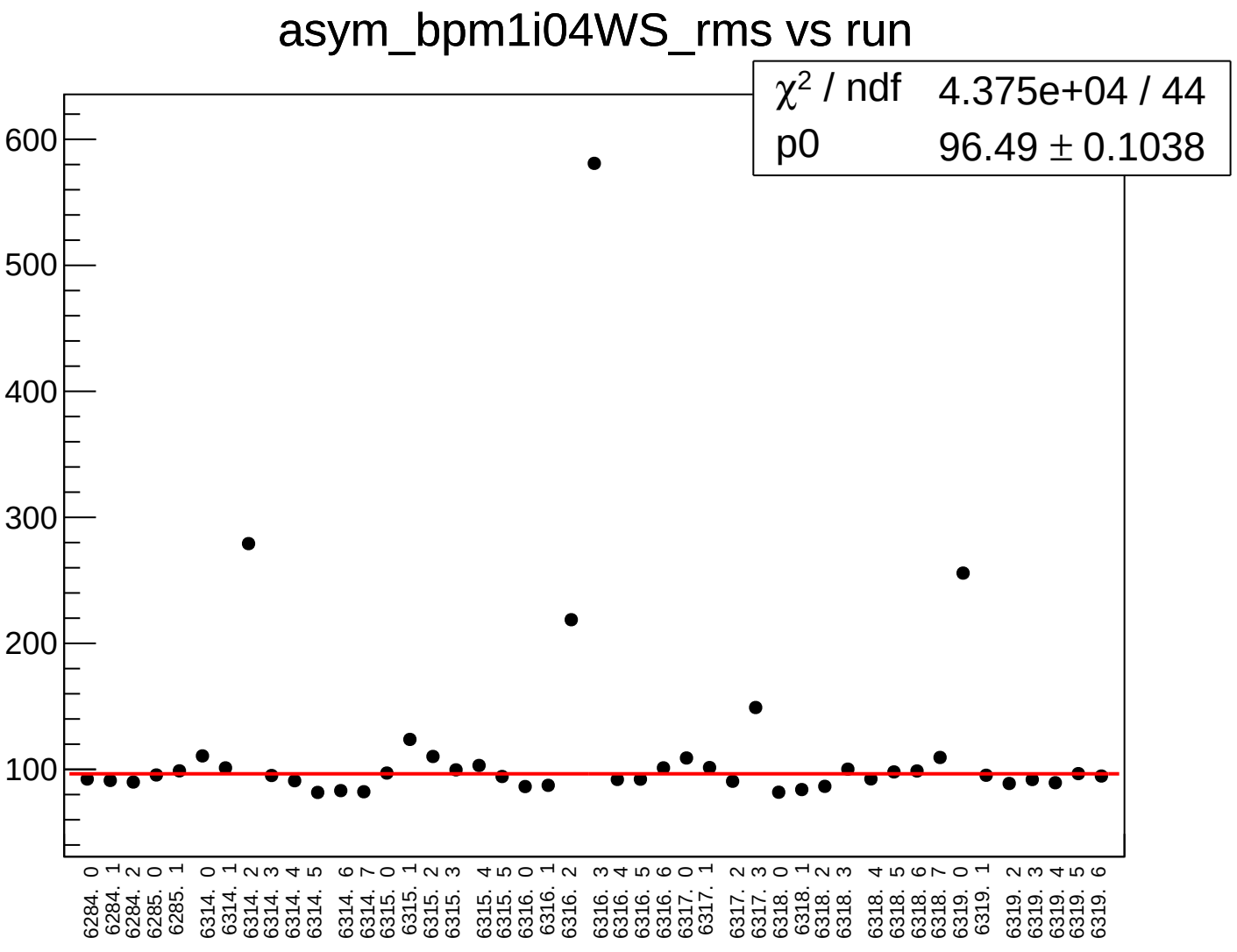
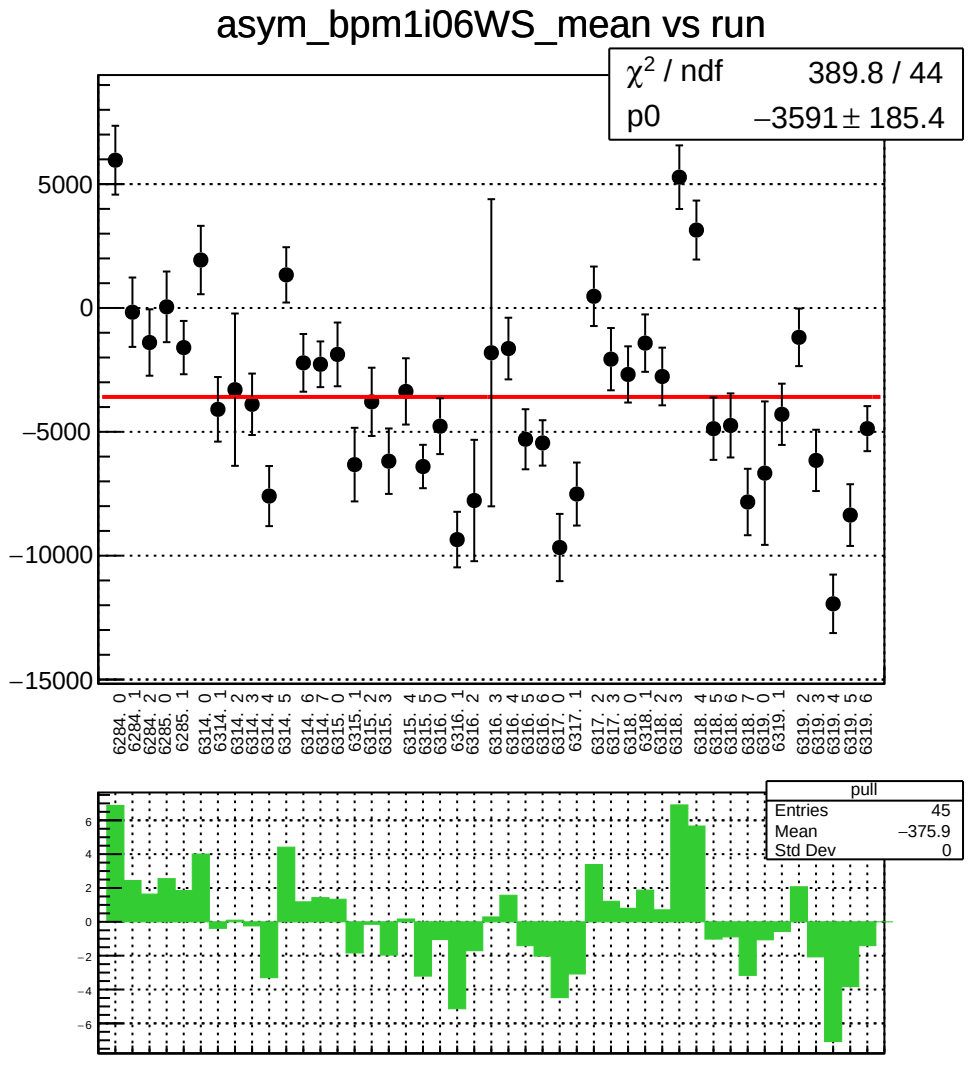
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −403.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 45
Mean 0.008139
Std Dev 3.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

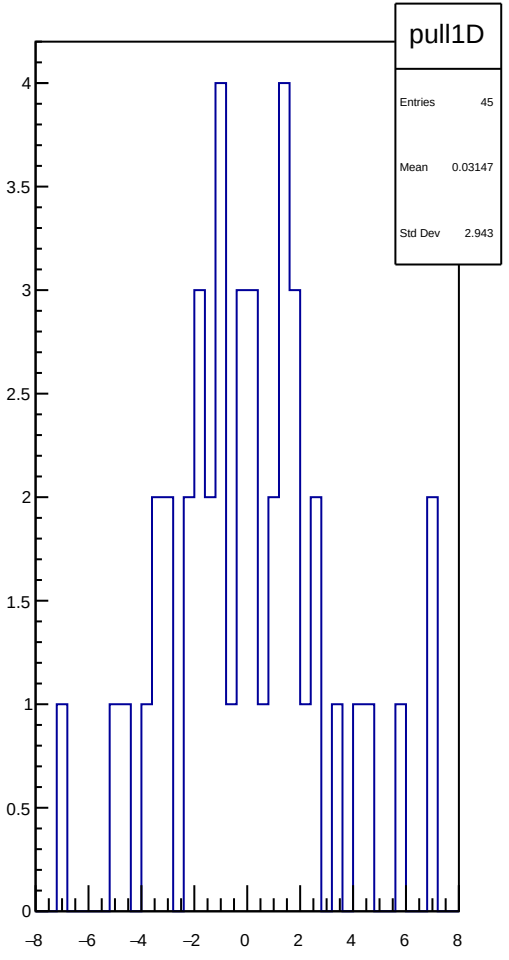

asym_bpm1i02WS_rms vs run
χ² / ndf 3.701e+04 / 44
p0 115.4 ± 0.1237
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

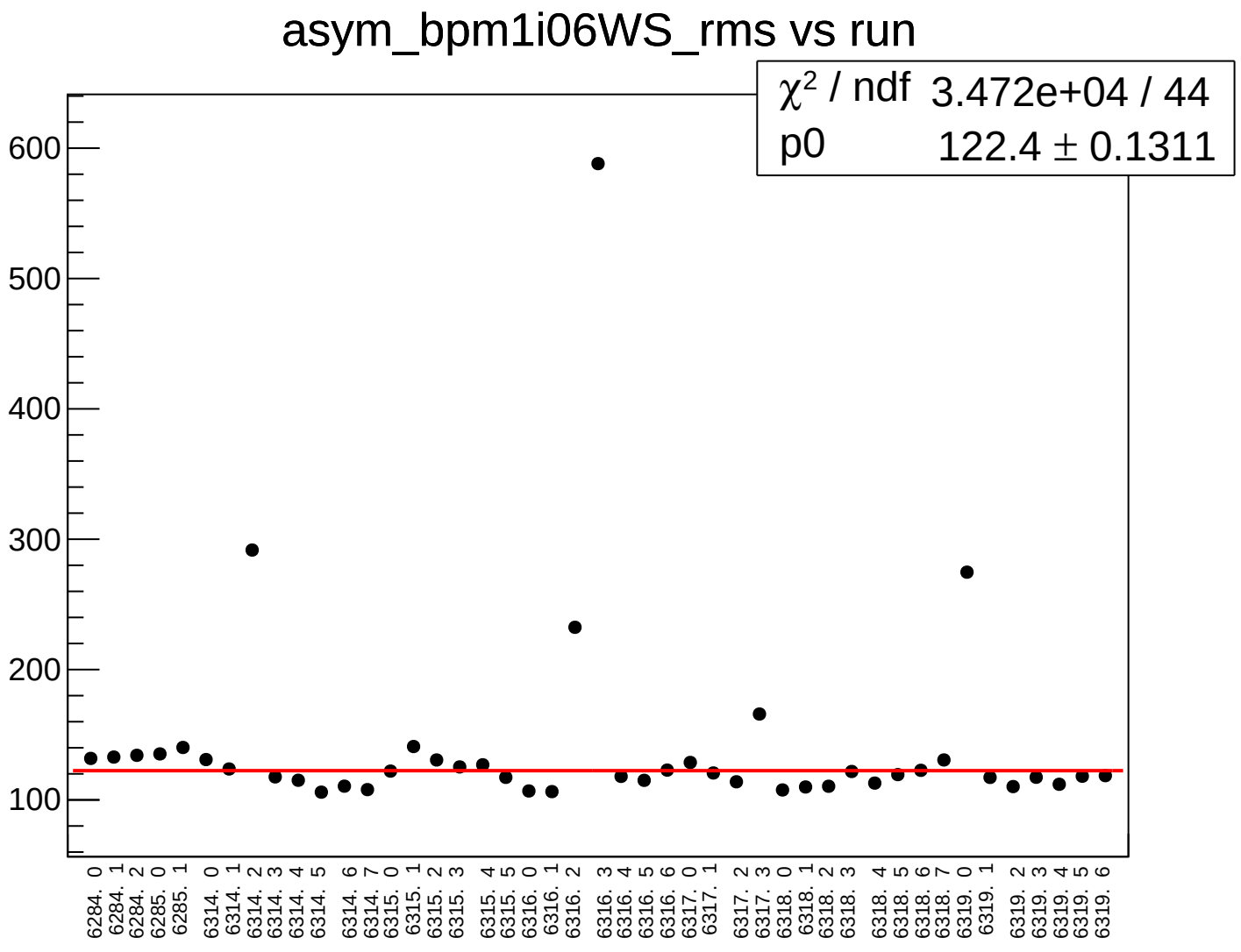

asym_bpm1i04WS_mean vs run
χ² / ndf 520.4 / 44
p0 −5089 ± 146.9
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 608.7
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

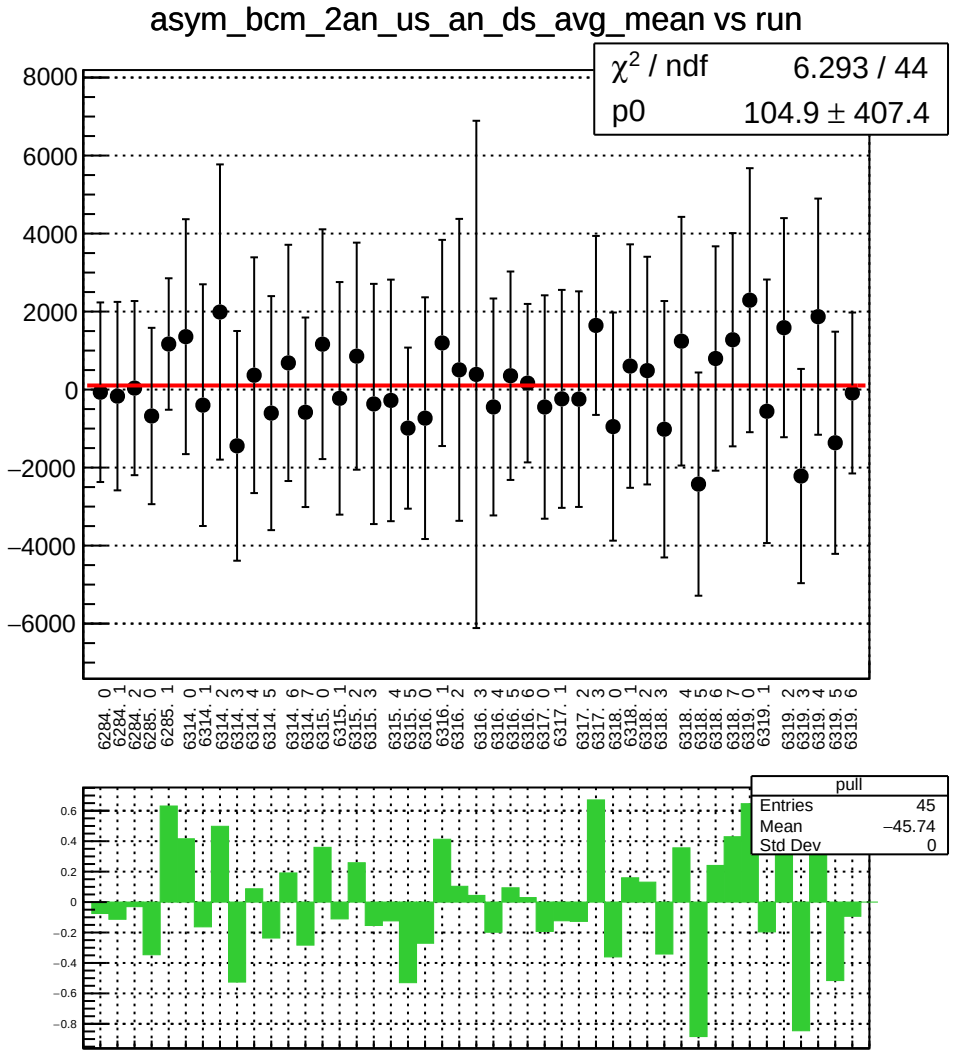

pull1D
Entries 45
Mean −0.3925
Std Dev 2.956
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

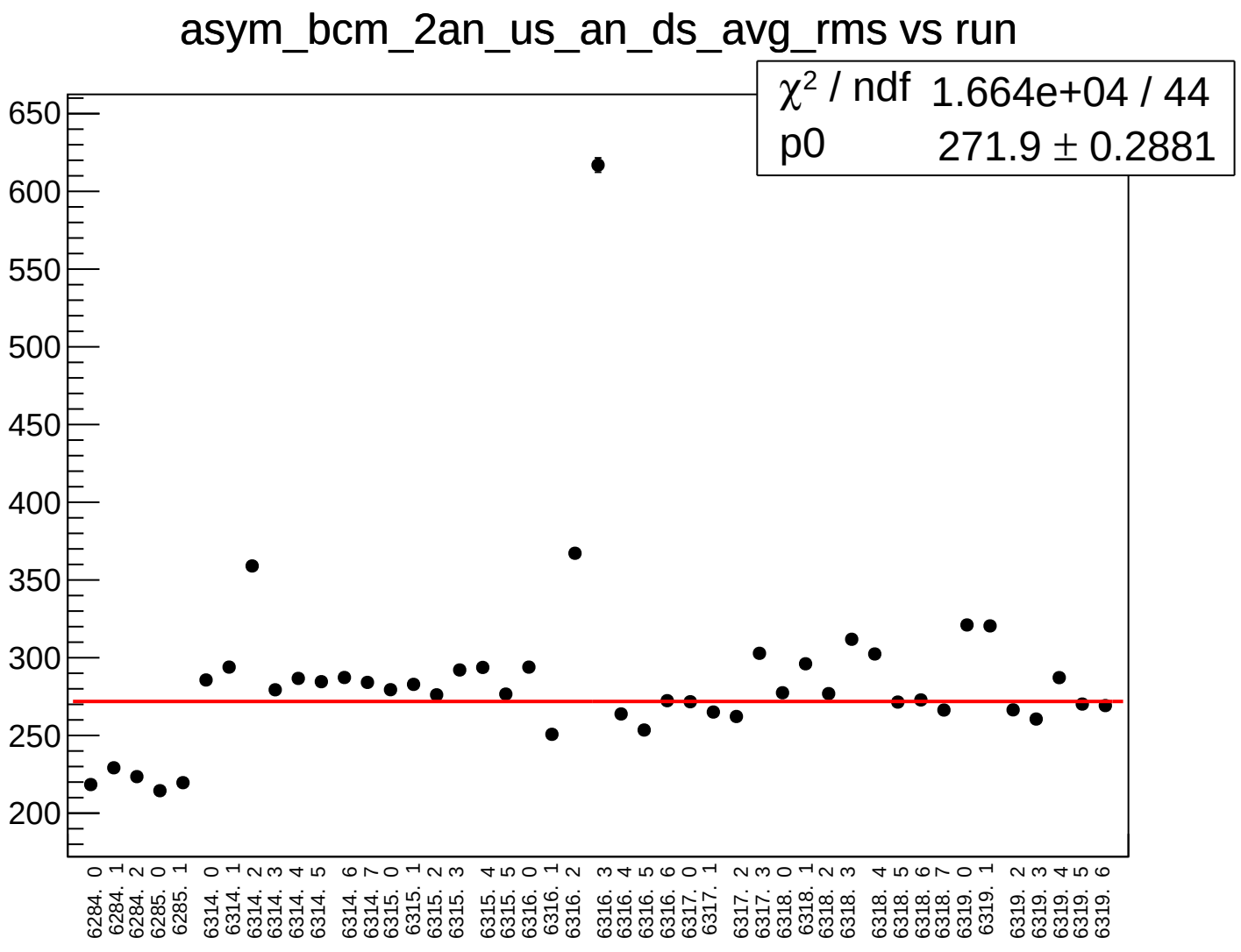

asym_bpm1i04WS_rms vs run
χ^2 / ndf 4.375e+04 / 44
p0 96.49 ± 0.1038
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

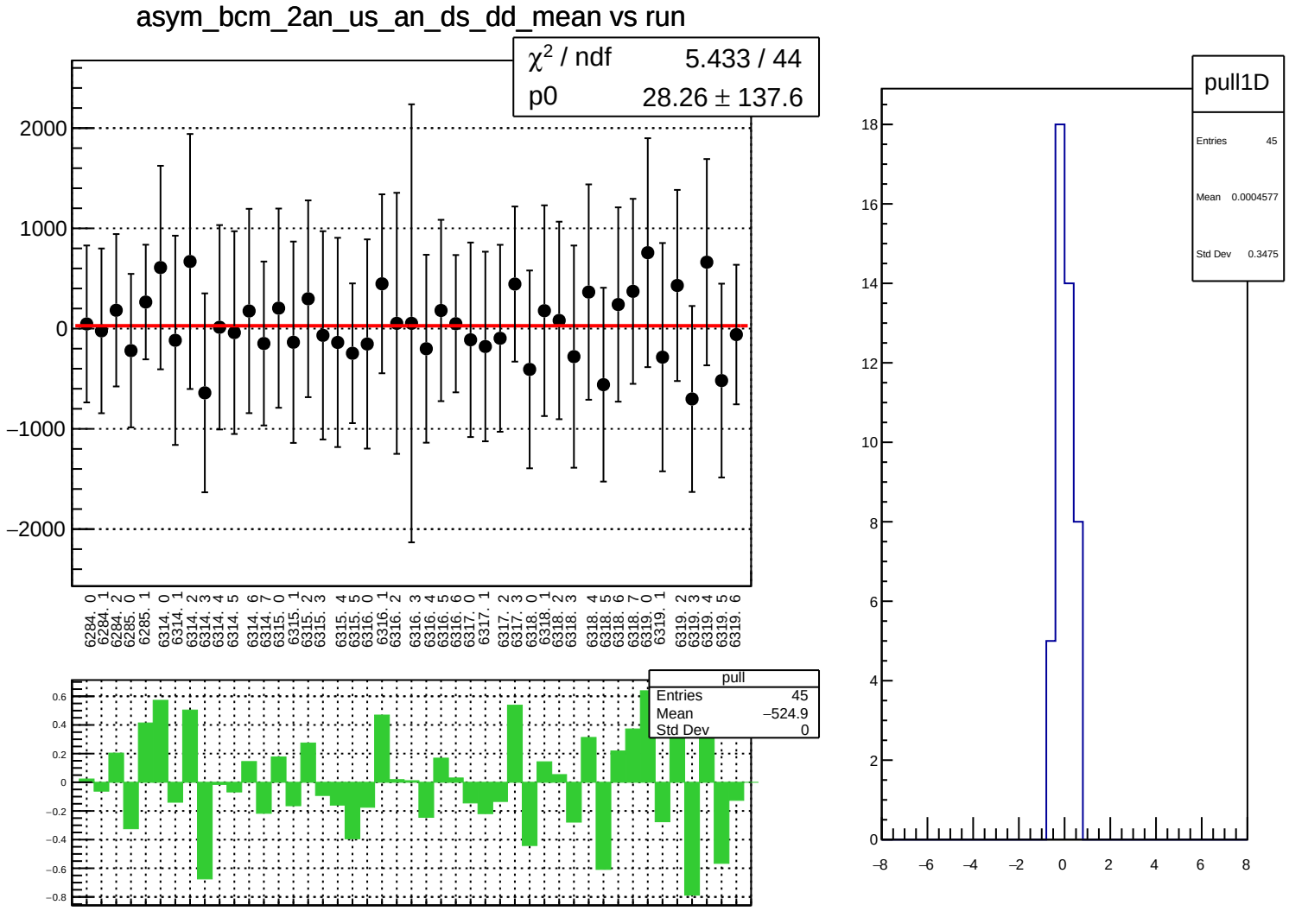

asym_bpm1i06WS_mean vs run
χ² / ndf 389.8 / 44
p0 −3591 ± 185.4
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −375.9
Std Dev 0
6
4
2
0
−2
−4
−6

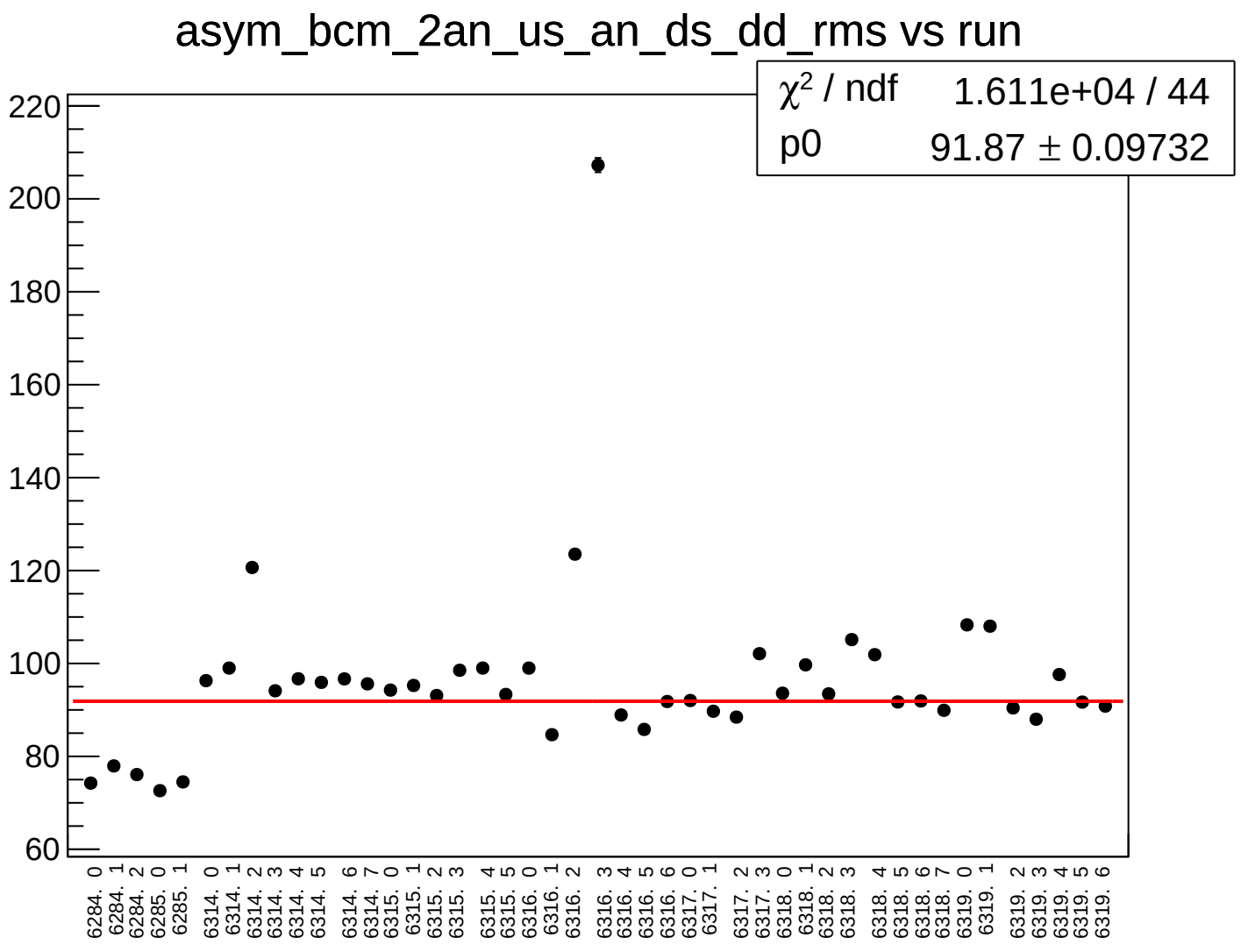

pull1D
Entries 45
Mean 0.03147
Std Dev 2.943
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

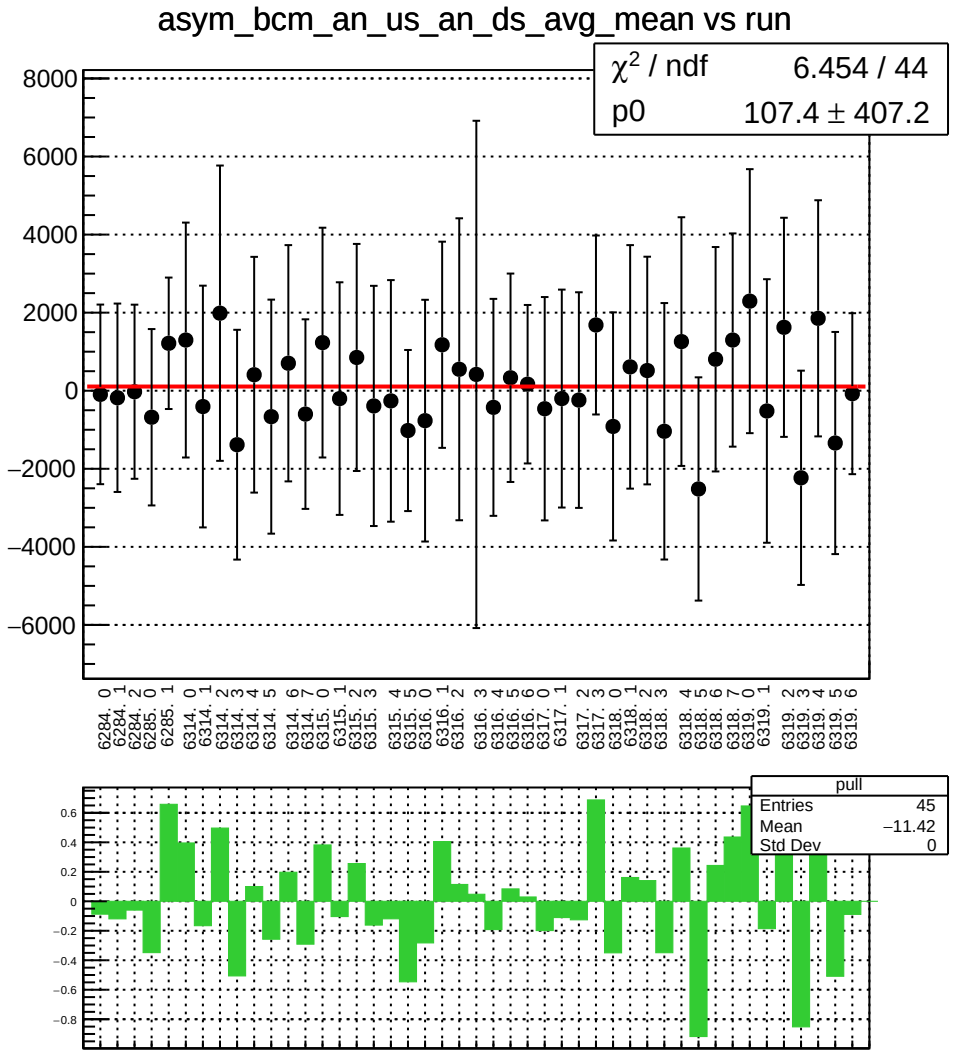

asym_bpm1i06WS_rms vs run
χ² / ndf 3.472e+04 / 44
p0 122.4 ± 0.1311
600
500
400
300
200
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

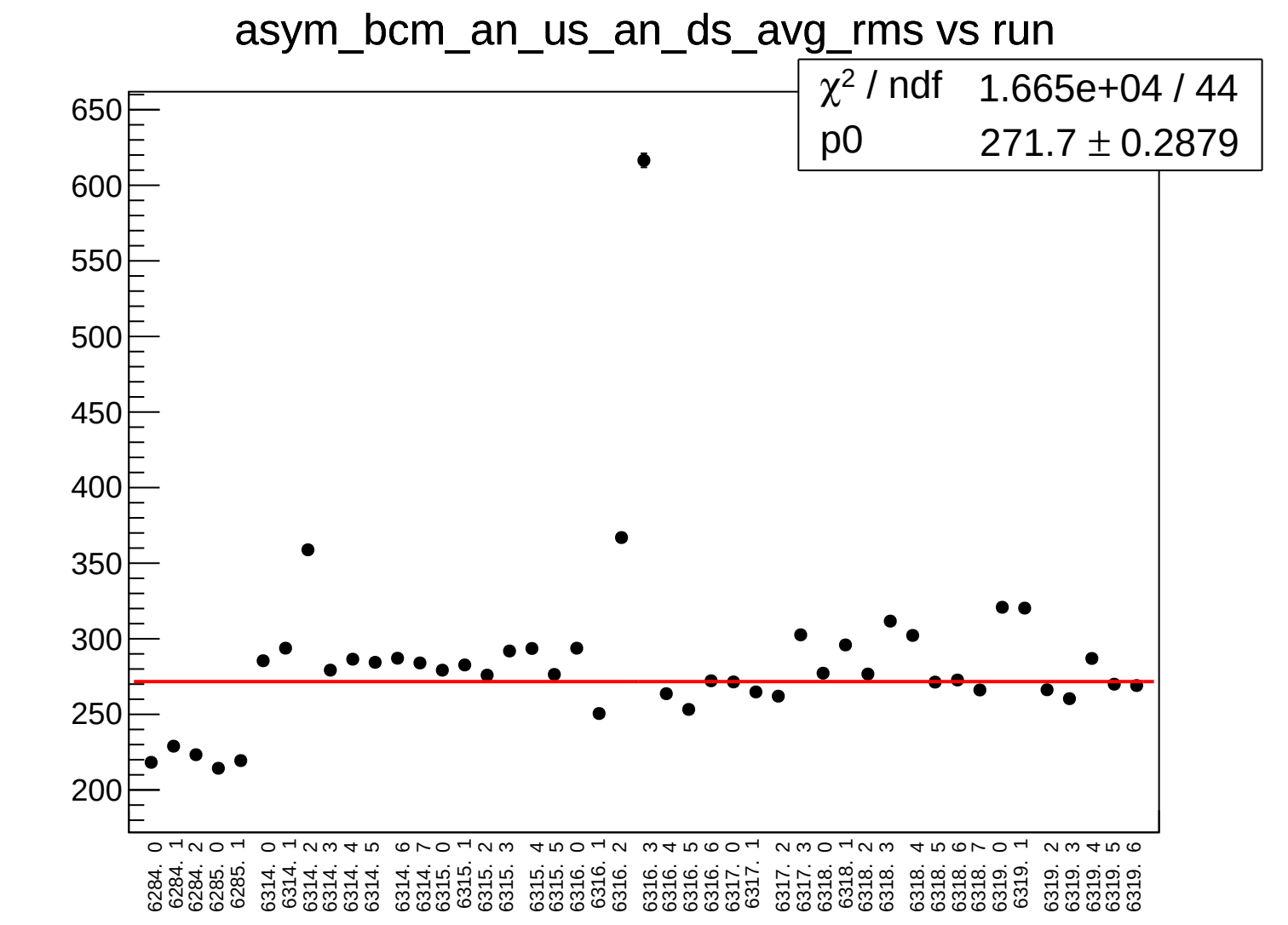

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 6.293 / 44
p0 104.9 ± 407.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −45.74
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0007724
Std Dev 0.3739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

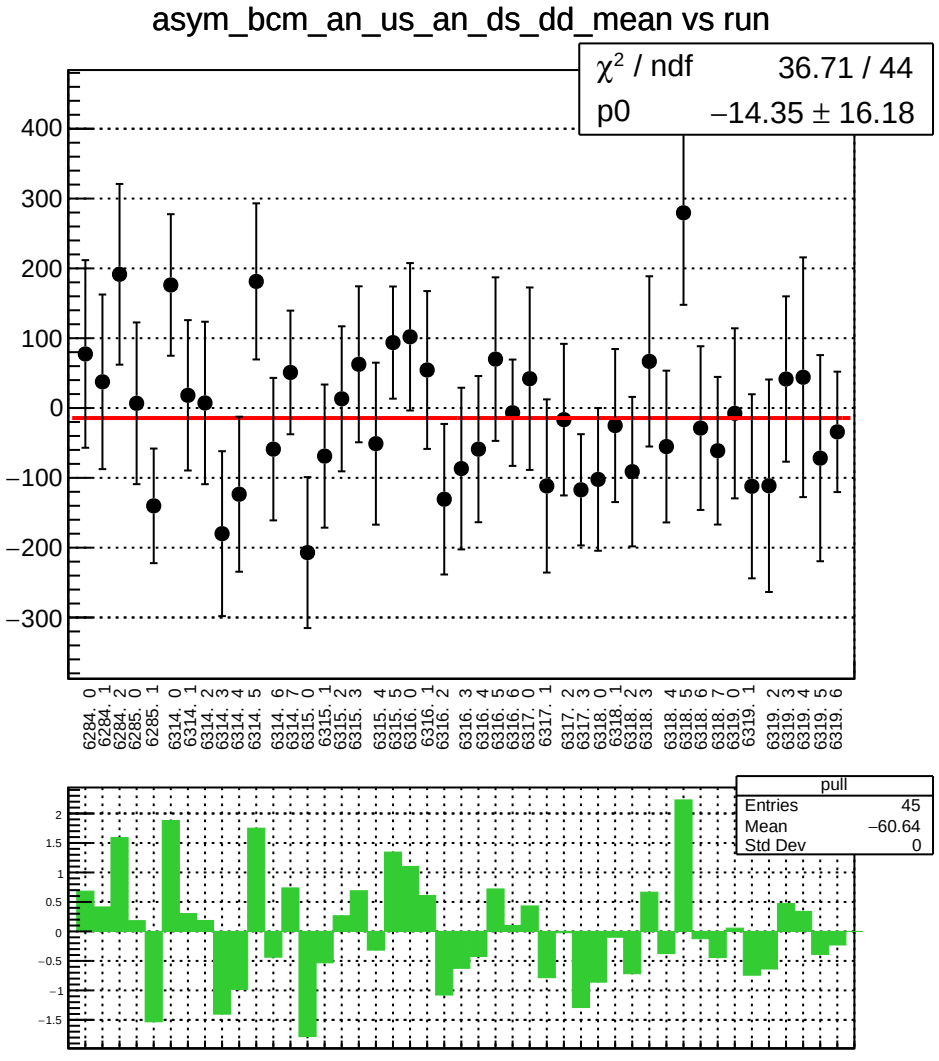

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.664e+04 / 44
p0 271.9 ± 0.2881
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

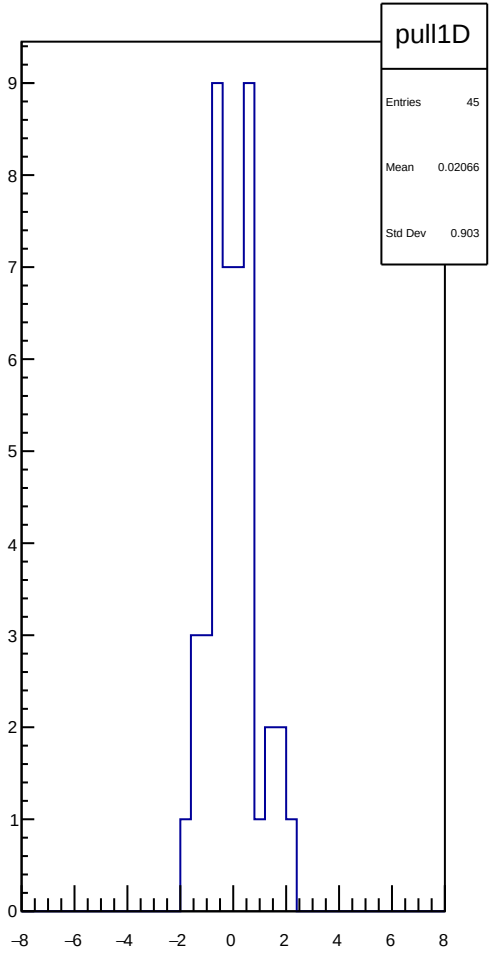

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 5.433 / 44
p0 28.26 ± 137.6
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −524.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0004577
Std Dev 0.3475
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

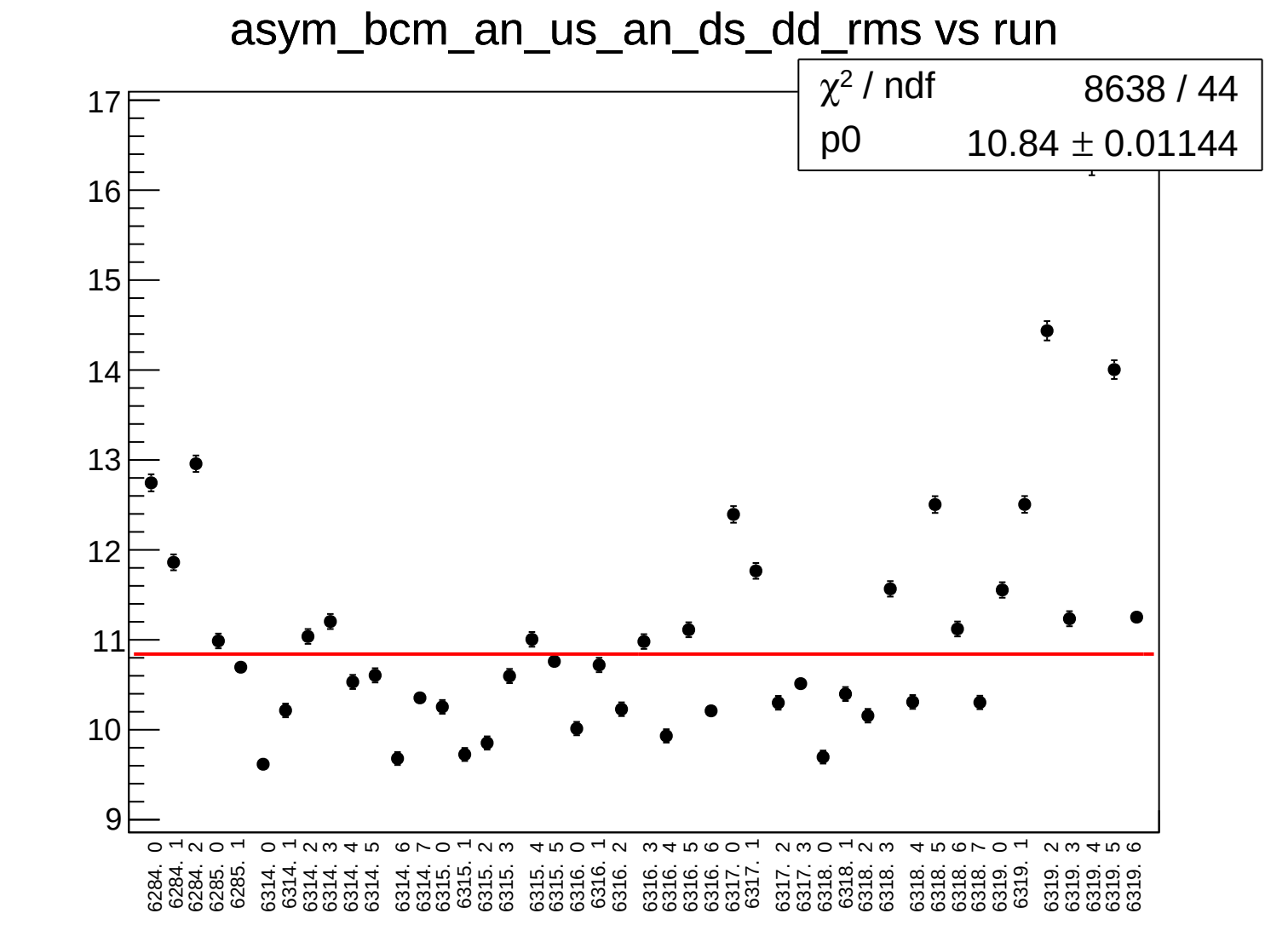

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.611e+04 / 44
p0 91.87 ± 0.09732
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

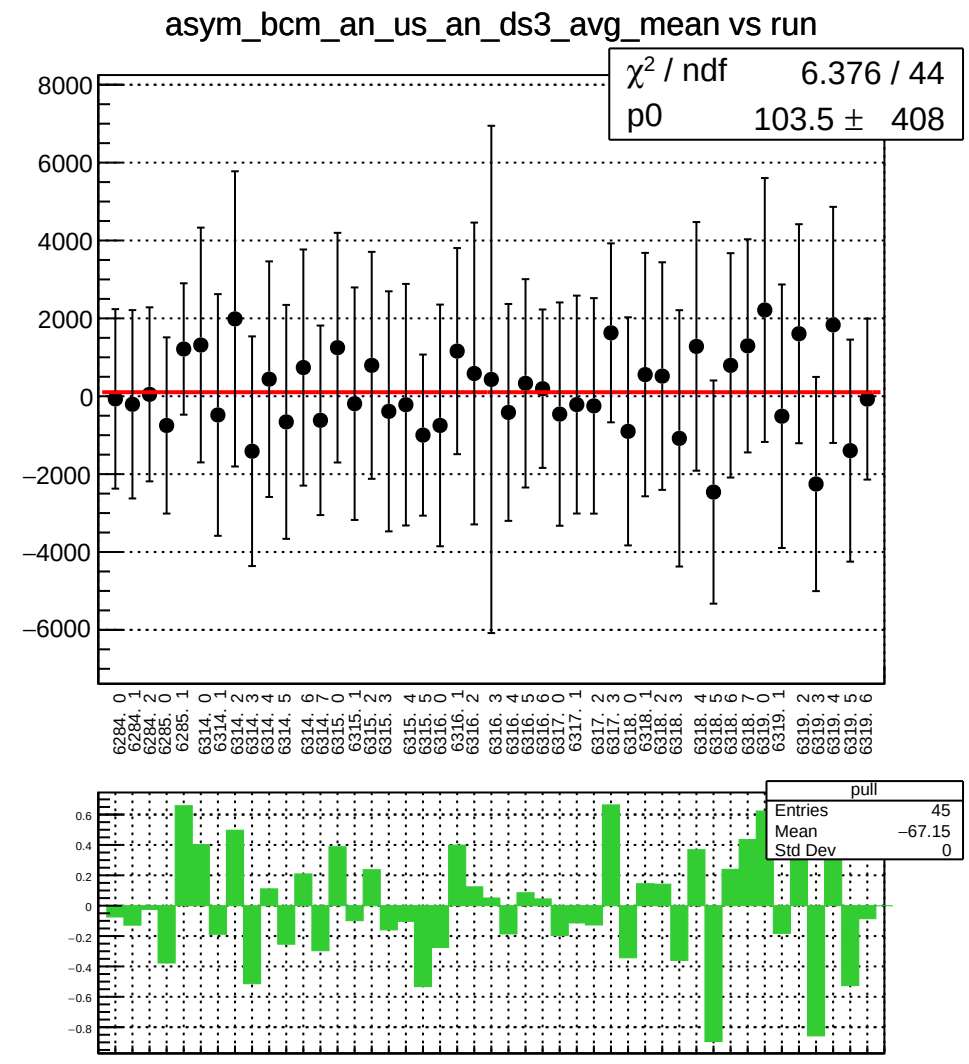

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 6.454 / 44
p0 107.4 ± 407.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.42
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0008147
Std Dev 0.3787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

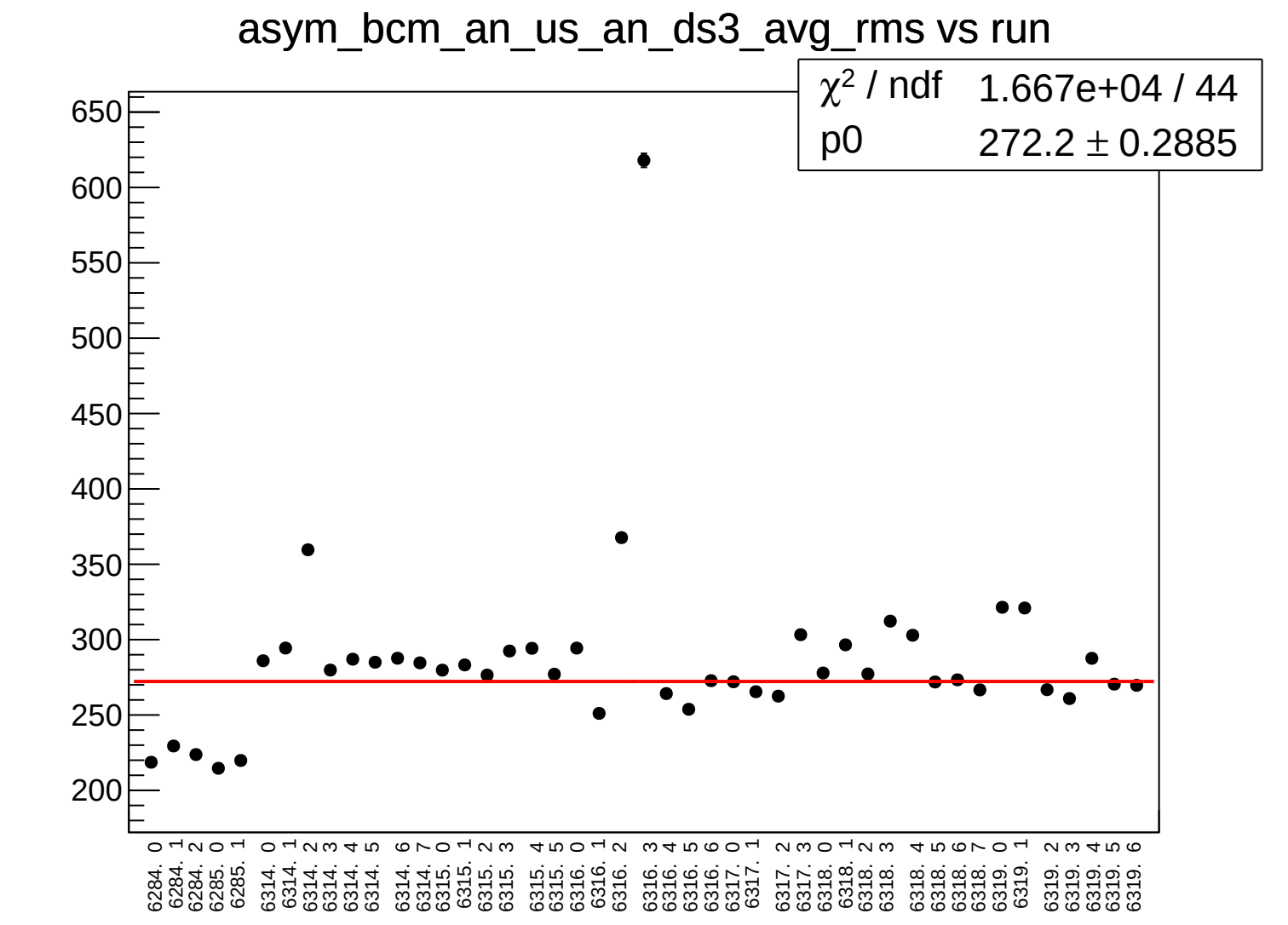

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.665e+04 / 44
p0 271.7 ± 0.2879
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

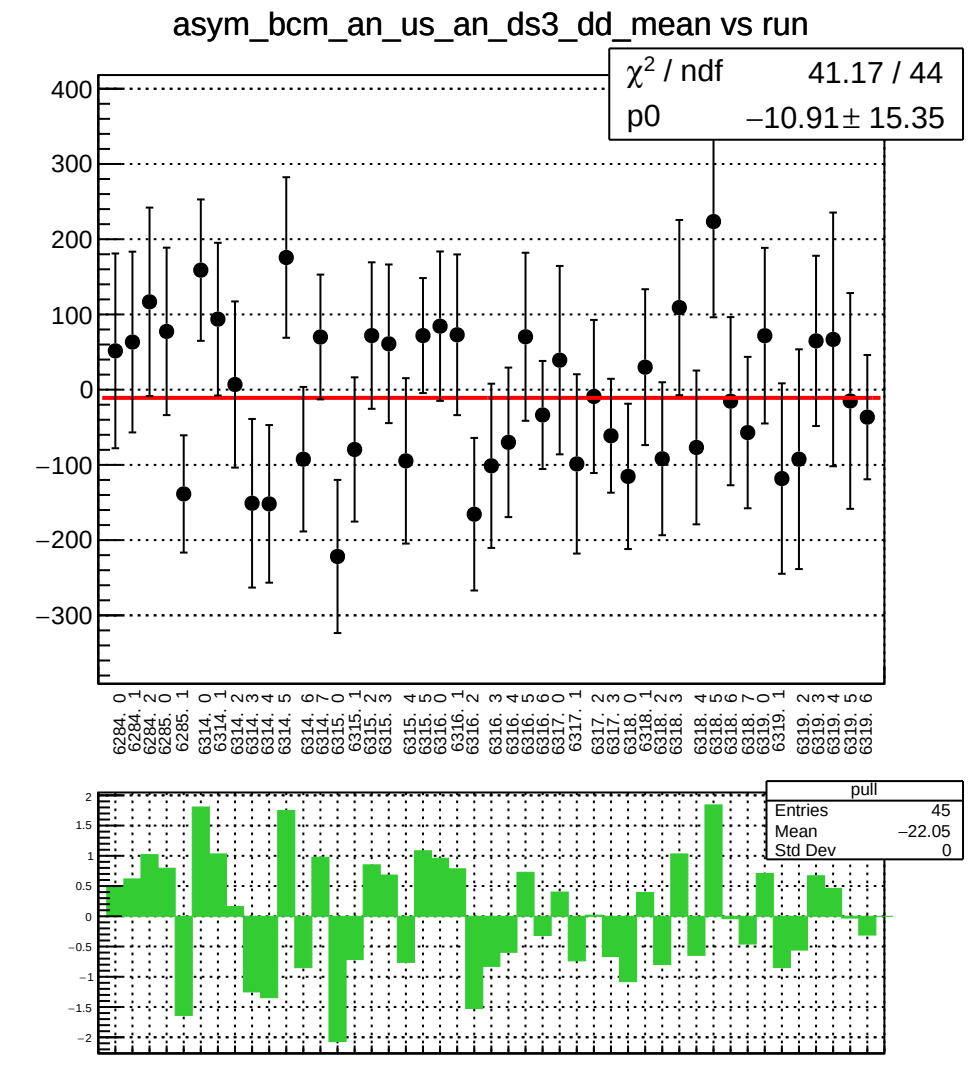

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 36.71 / 44
p0 −14.35 ± 16.18
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −60.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

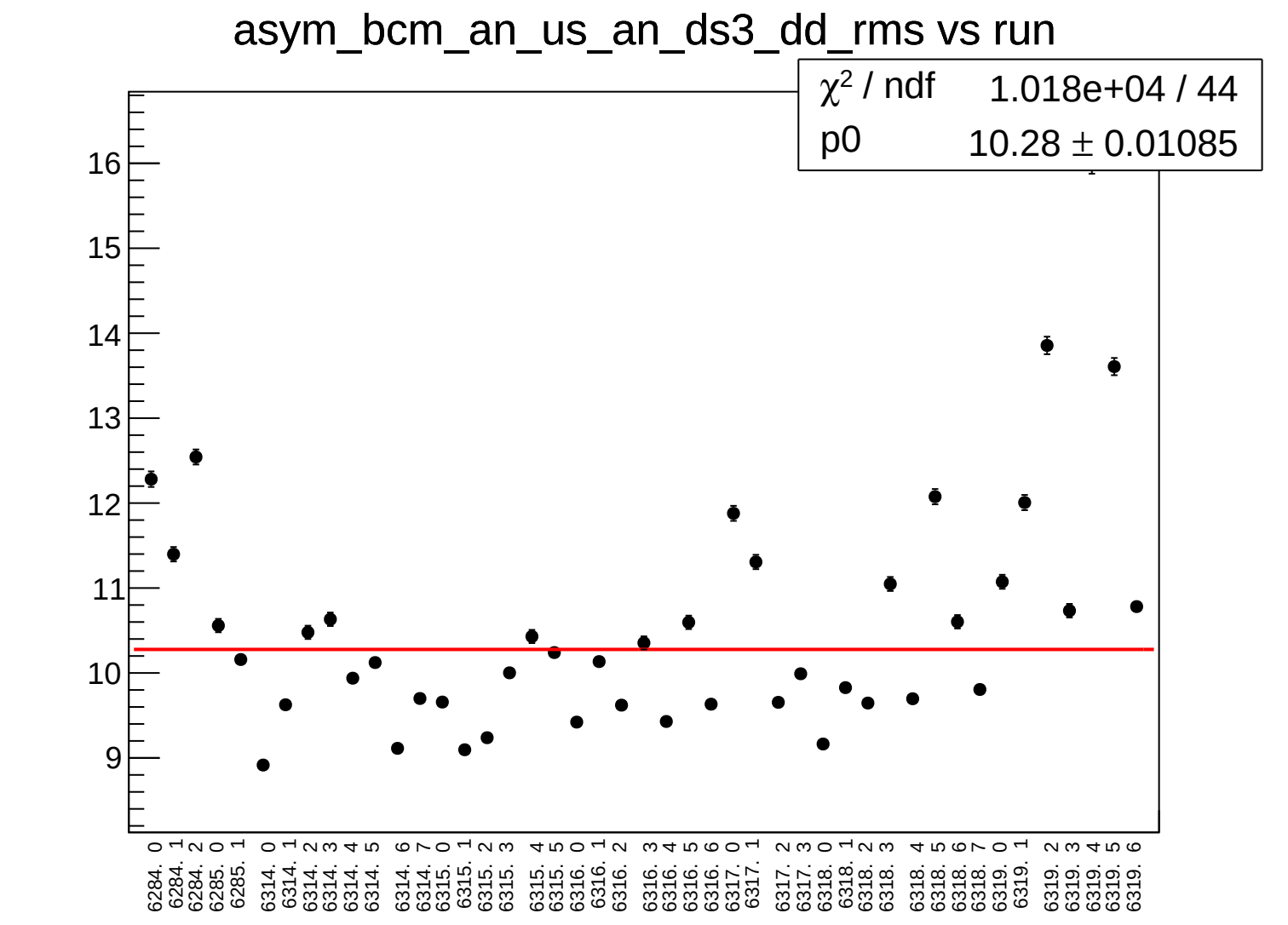

pull1D
Entries 45
Mean 0.02066
Std Dev 0.903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 8638 / 44
p0 10.84 ± 0.01144
17
16
15
14
13
12
11
10
9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 6.376 / 44
p0 103.5 ± 408
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −67.15
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0006257
Std Dev 0.3764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.667e+04 / 44
p0 272.2 ± 0.2885
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 41.17 / 44
p0 −10.91 ± 15.35
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −22.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02644
Std Dev 0.9561
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.018e+04 / 44
p0 10.28 ± 0.01085
16
15
14
13
12
11
10
9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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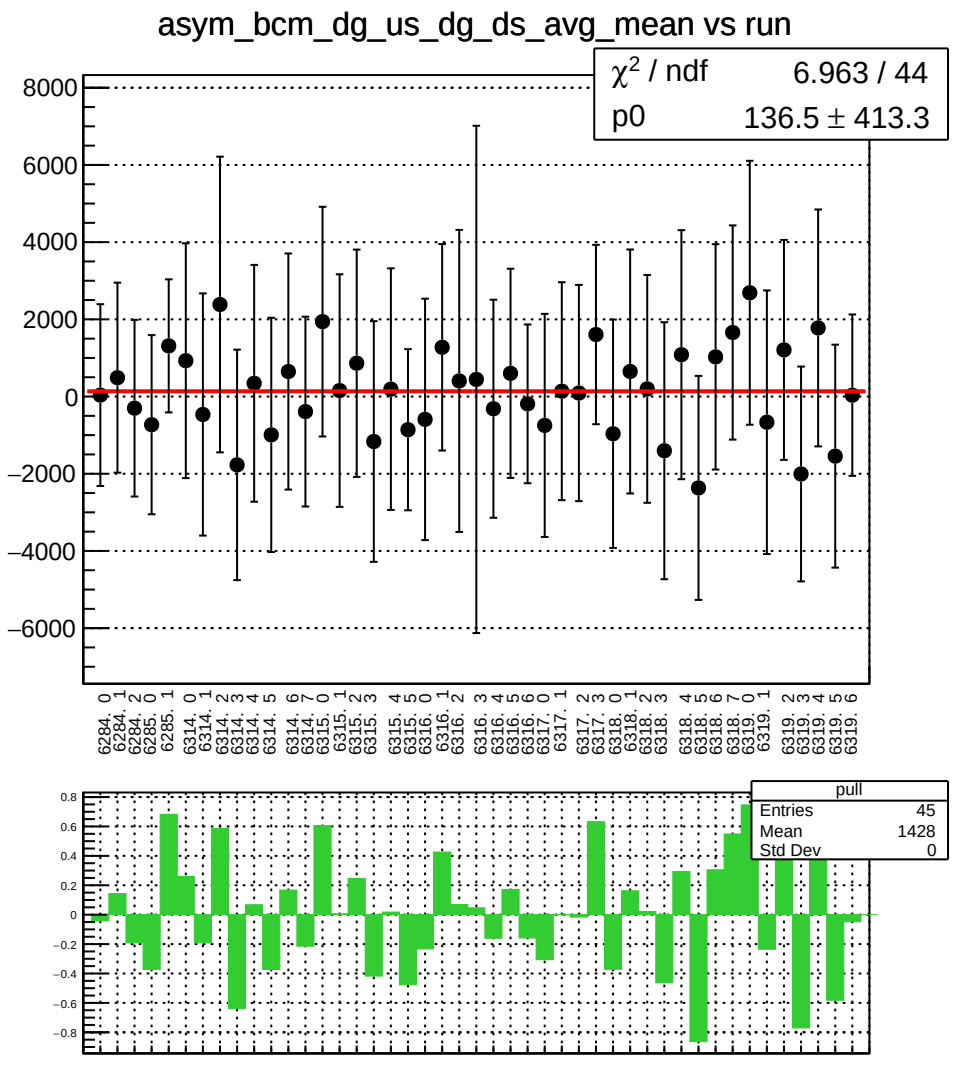
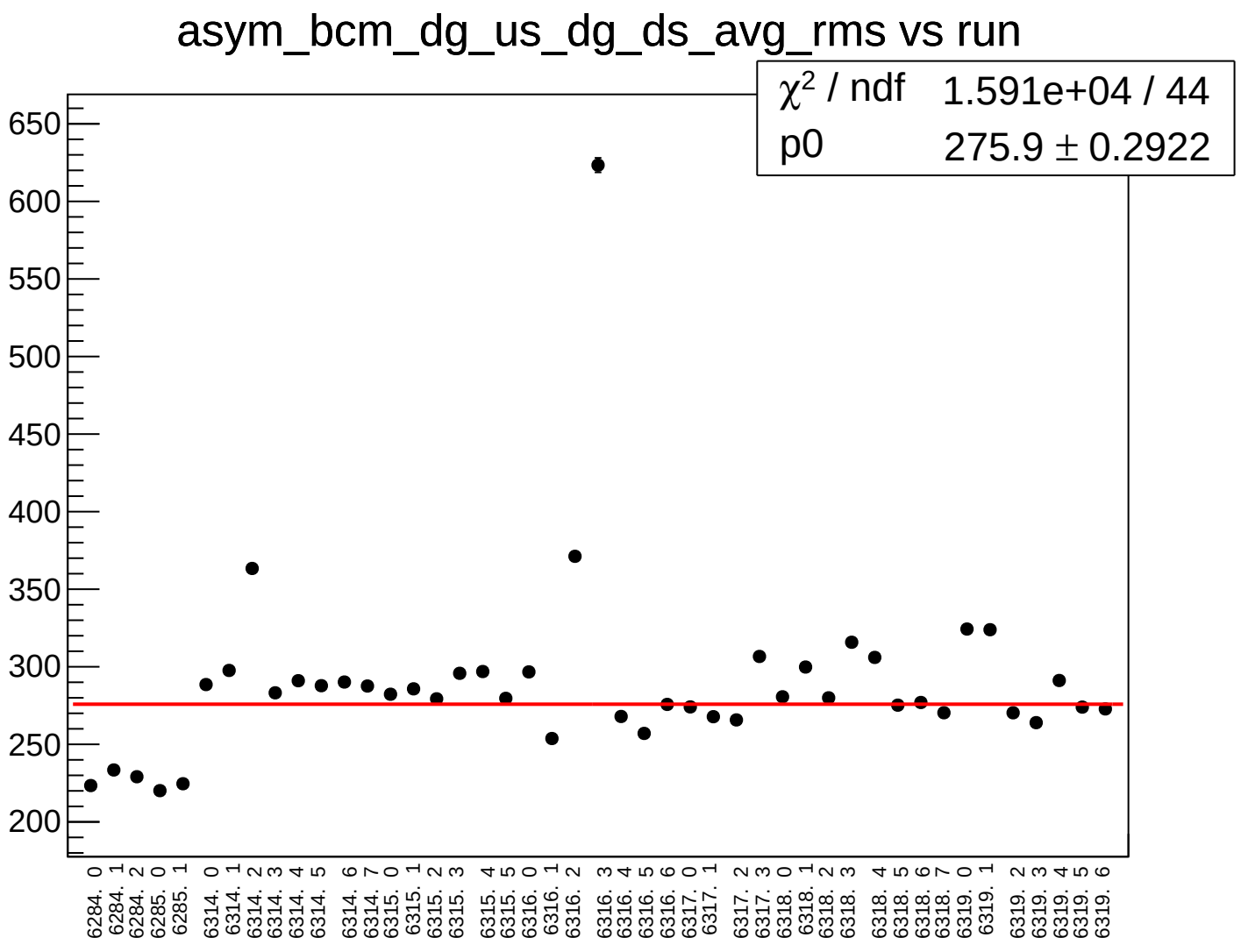
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 6.963 / 44
p0 136.5 ± 413.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1428
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −8.146e−05
Std Dev 0.3934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.591e+04 / 44
p0 275.9 ± 0.2922
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
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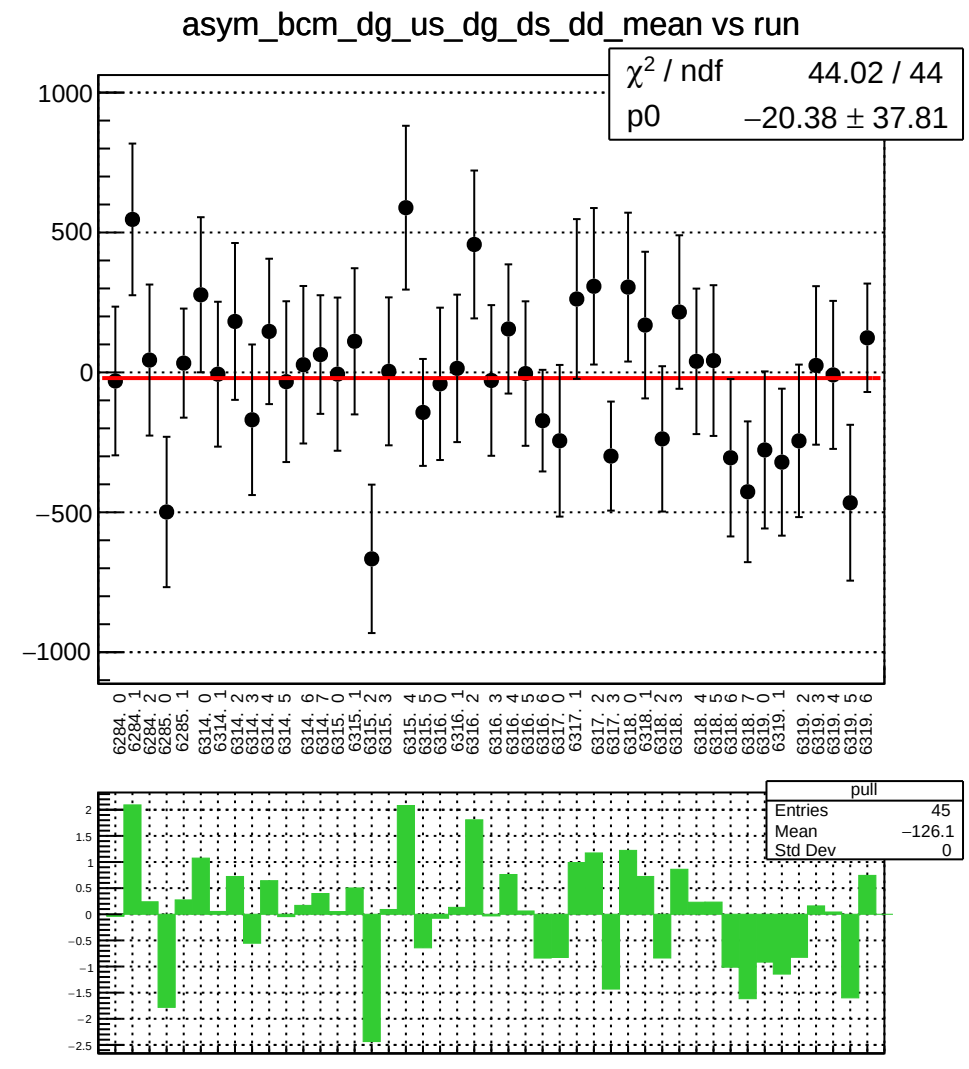
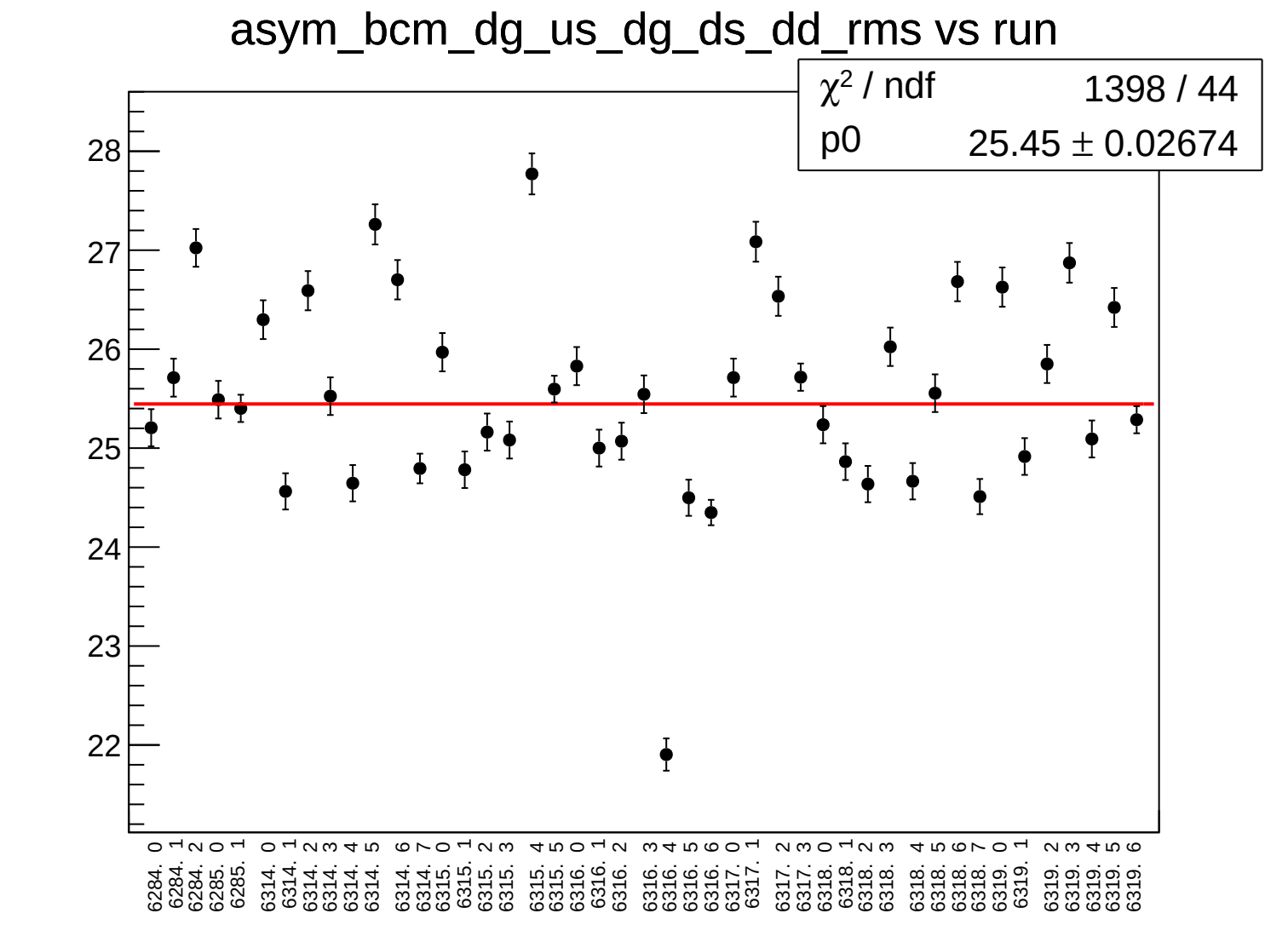
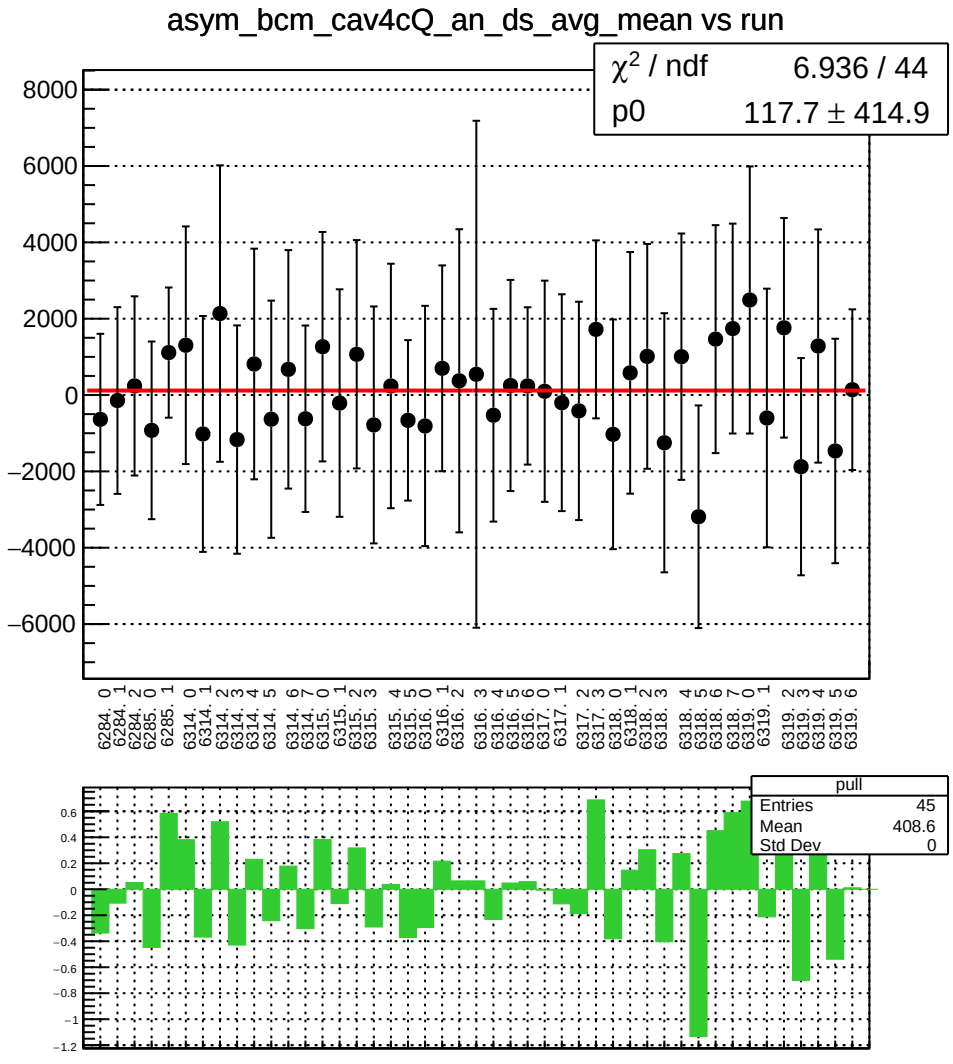
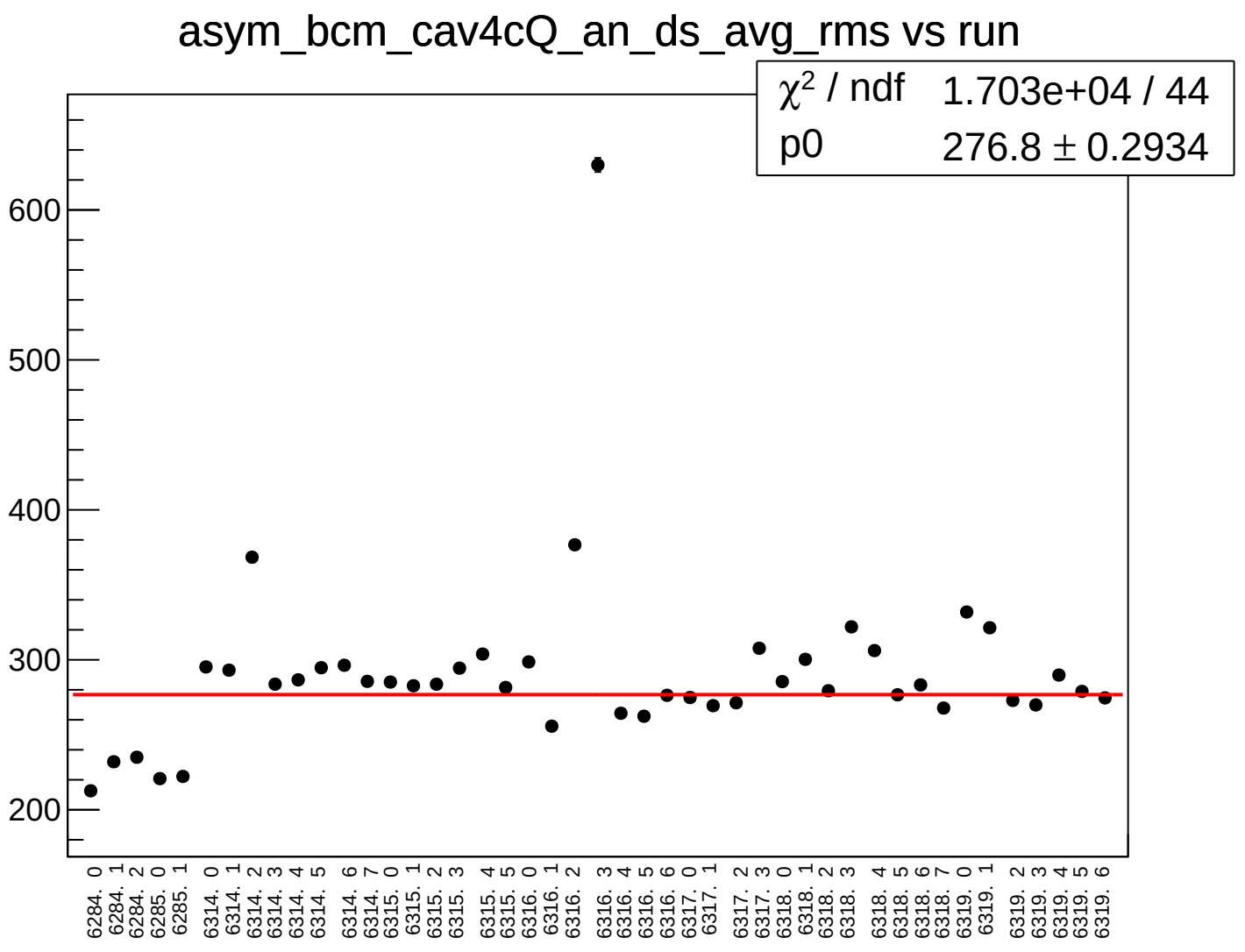
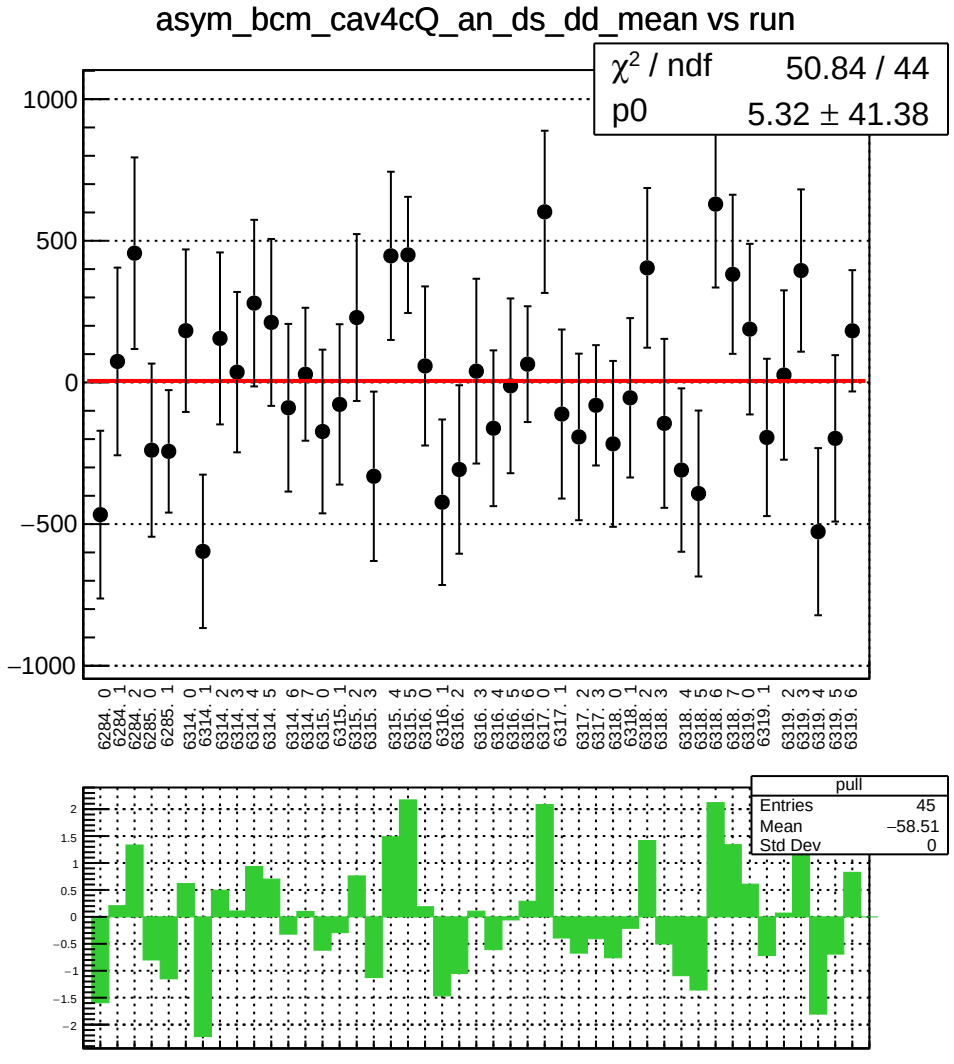
6319. 6

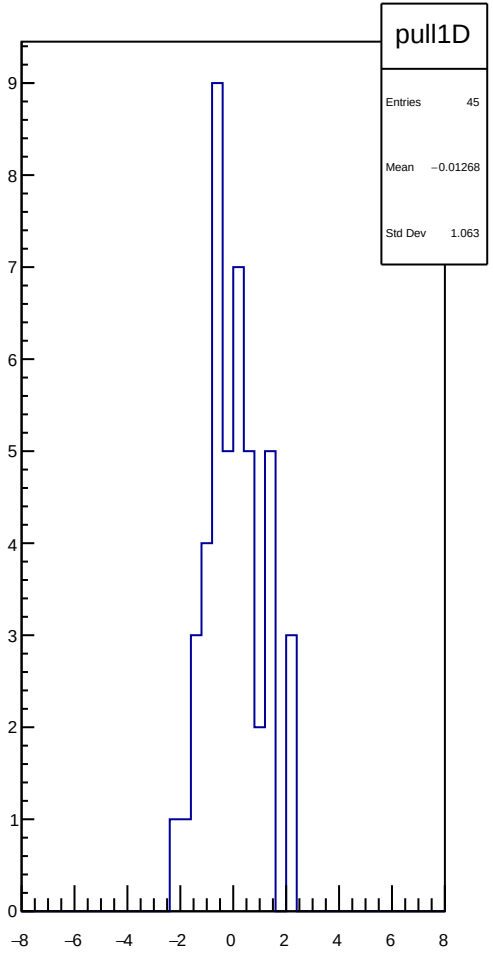

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 44.02 / 44
p0 −20.38 ± 37.81
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −126.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01988
Std Dev 0.9889
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

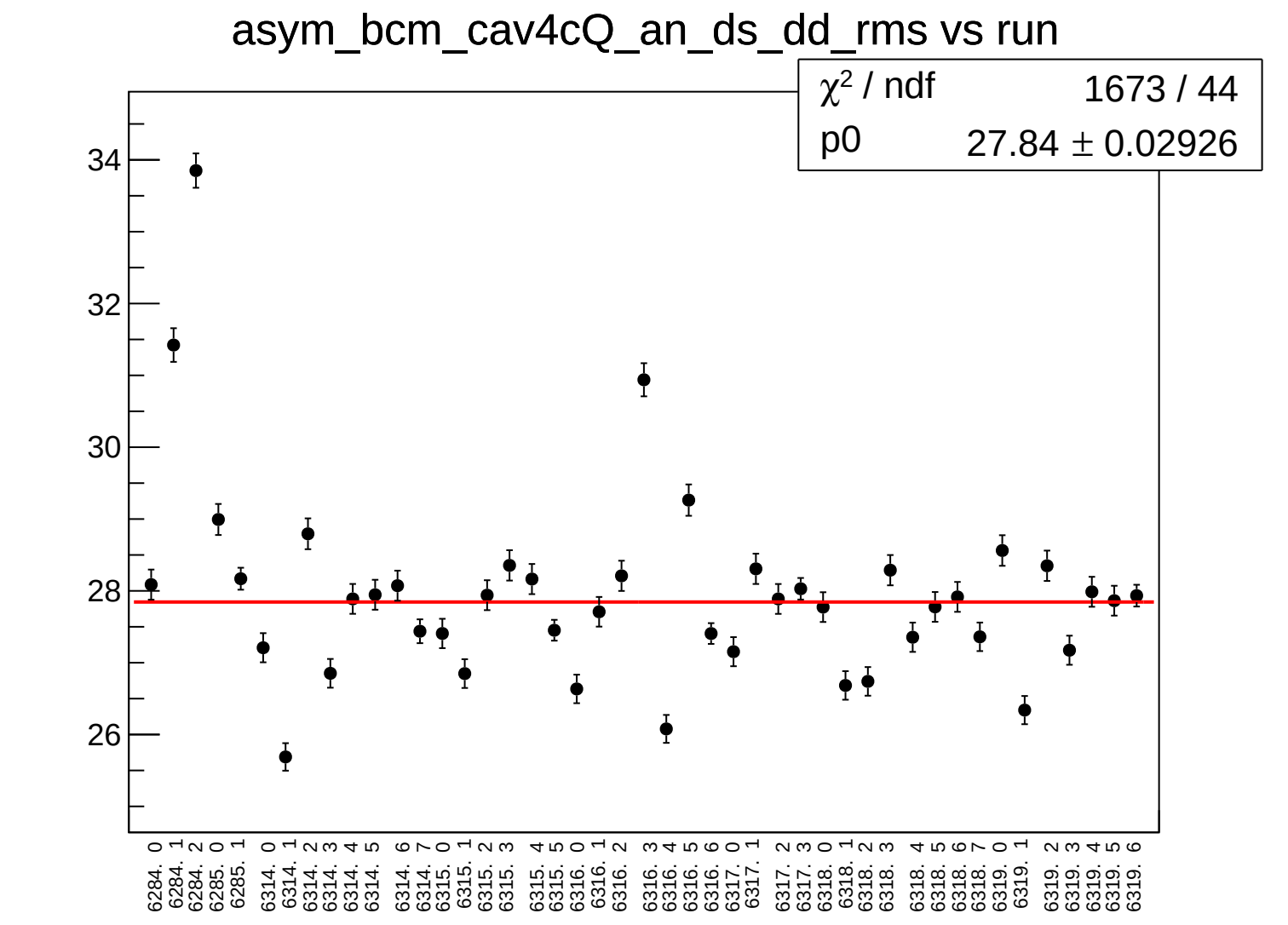

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1398 / 44
p0 25.45 ± 0.02674
28
27
26
25
24
23
22
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 6.936 / 44
p0 117.7 ± 414.9
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 408.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.0004853
Std Dev 0.3926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.703e+04 / 44
p0 276.8 ± 0.2934
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 50.84 / 44
p0 5.32 ± 41.38
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −58.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01268
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1673 / 44
p0 27.84 ± 0.02926
34
32
30
28
26
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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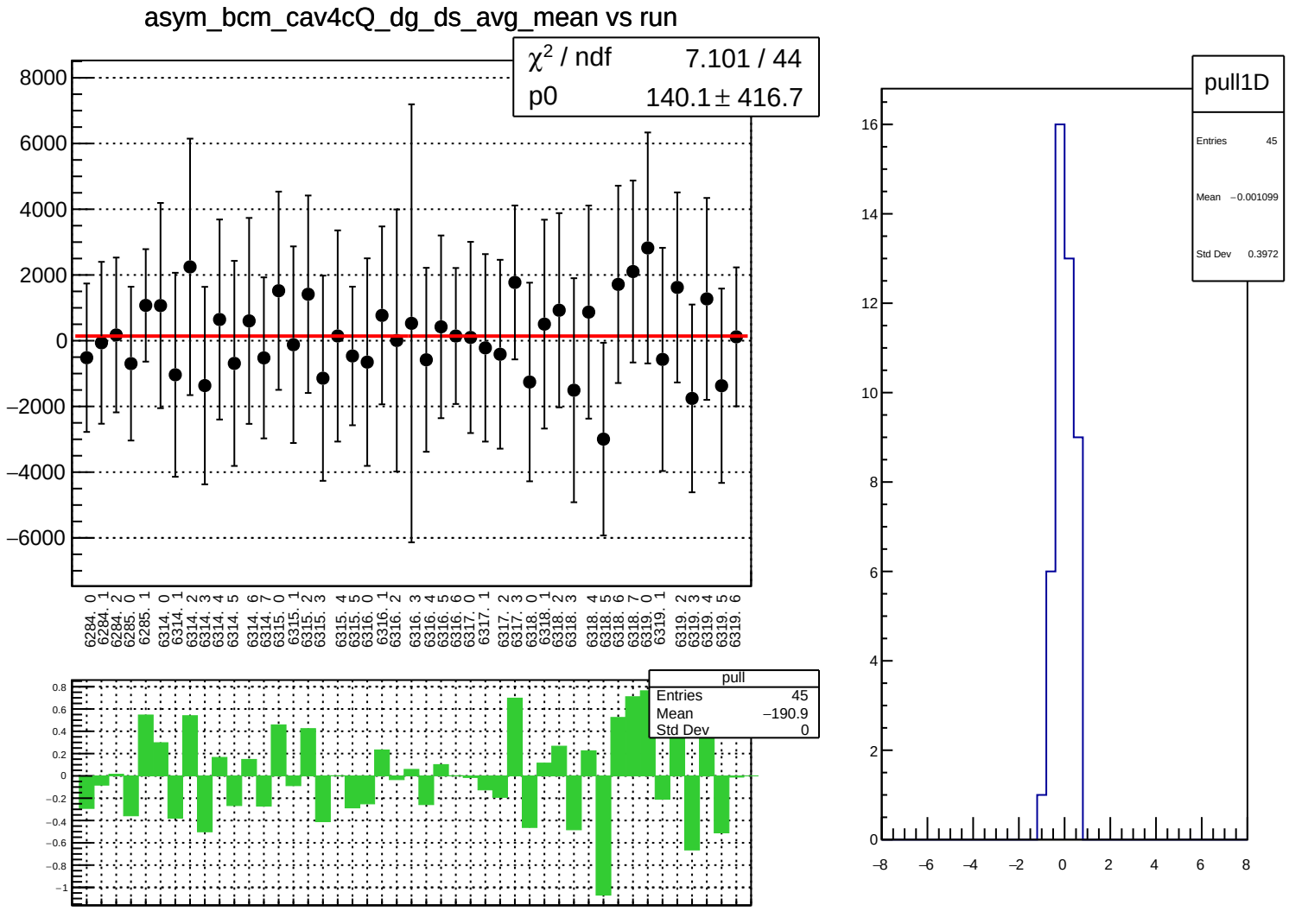
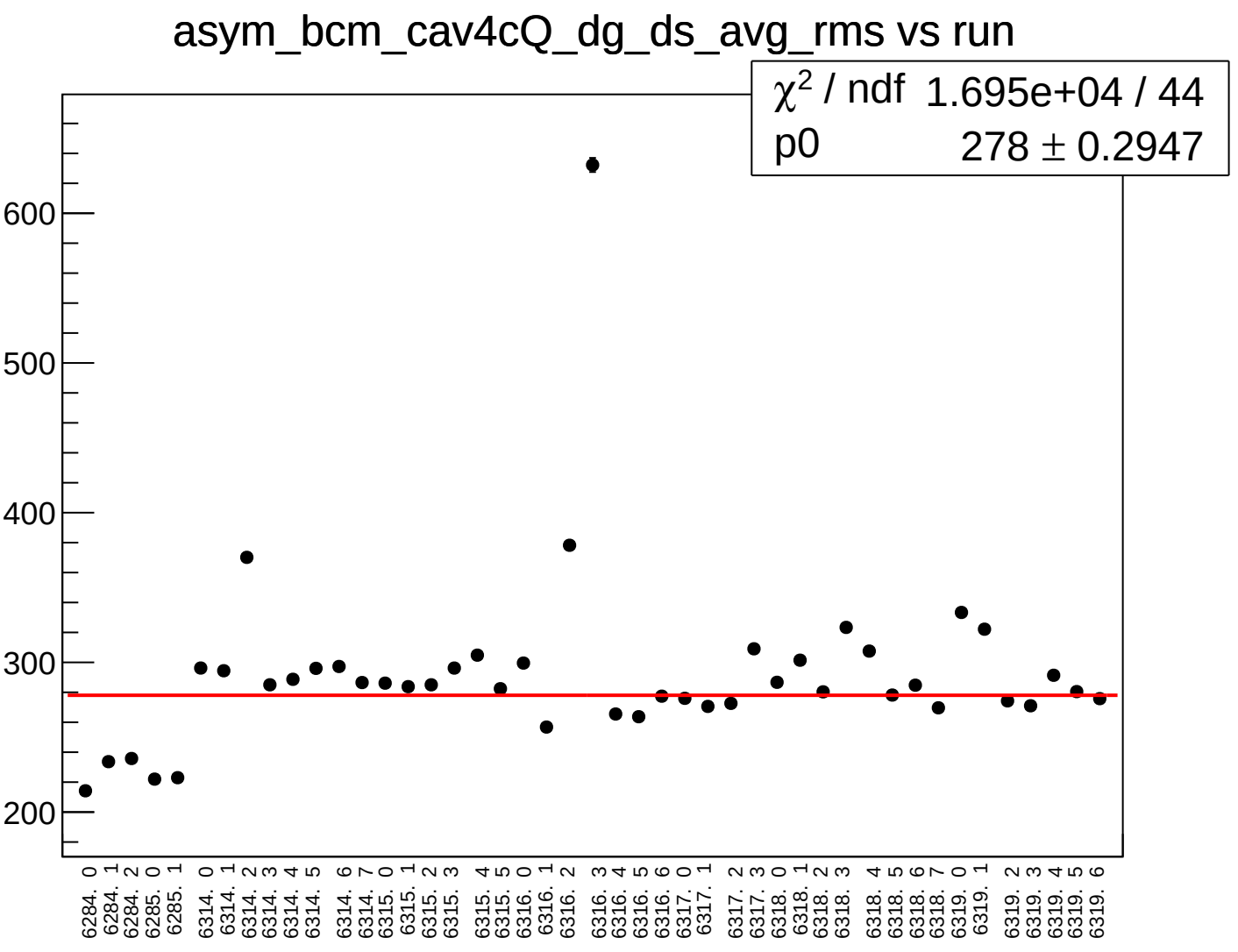
6319. 5
6319. 6


asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 7.101 / 44
p0 140.1 ± 416.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −190.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.001099
Std Dev 0.3972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.695e+04 / 44
p0 278 ± 0.2947
600
500
400
300
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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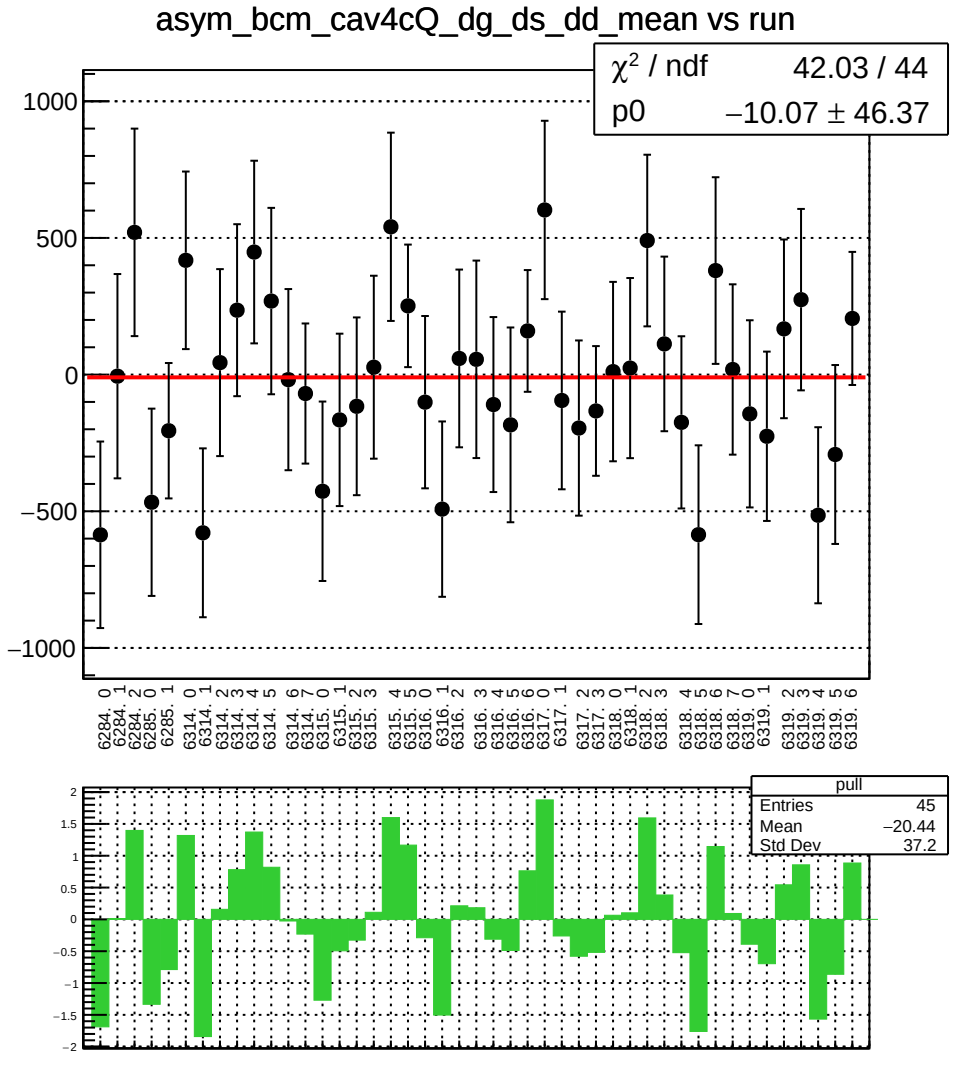
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 42.03 / 44
p0 −10.07 ± 46.37
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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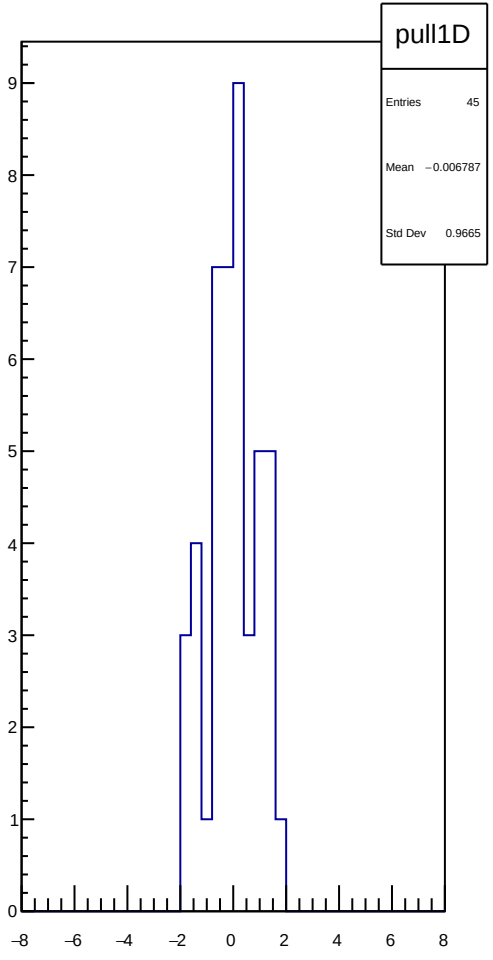
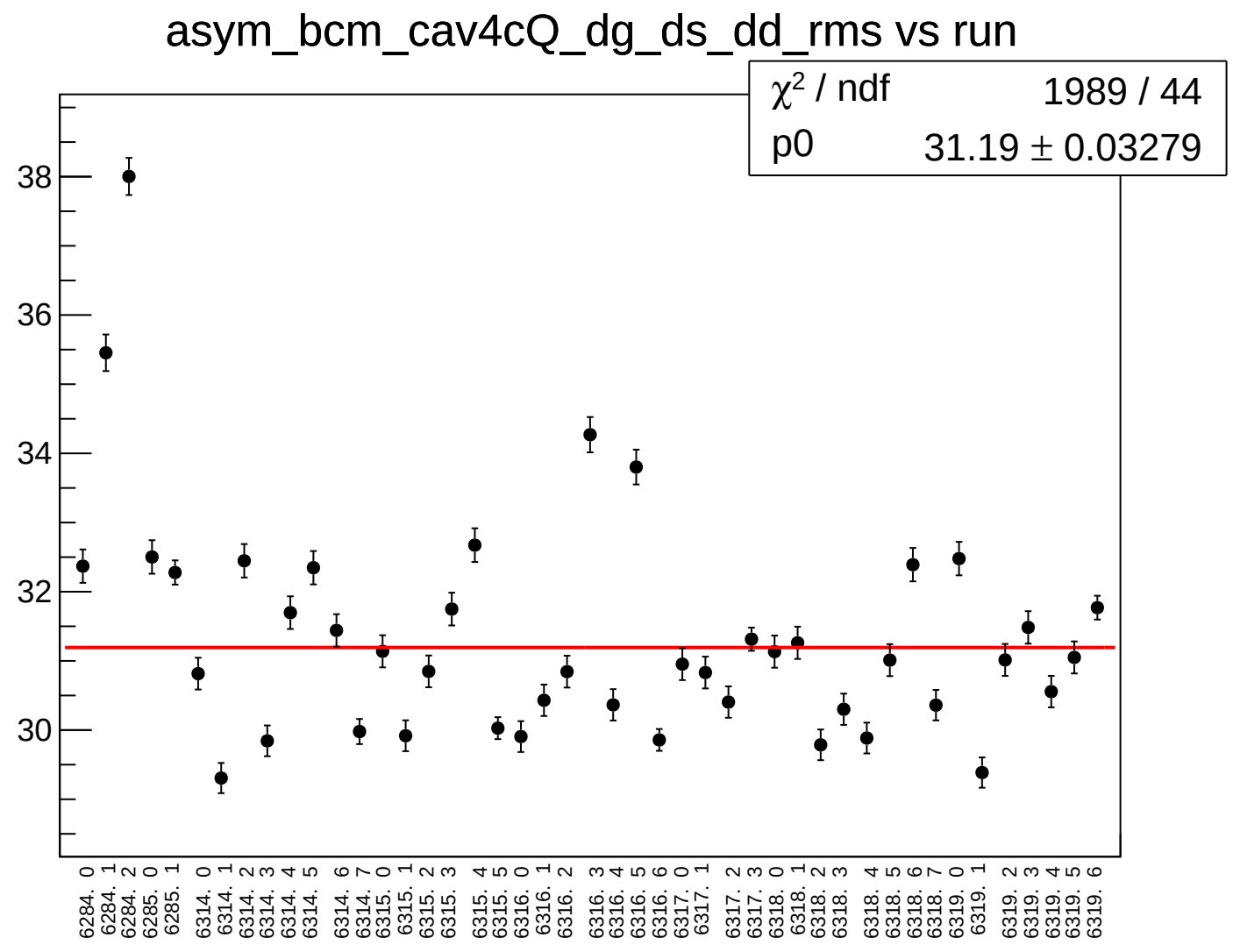
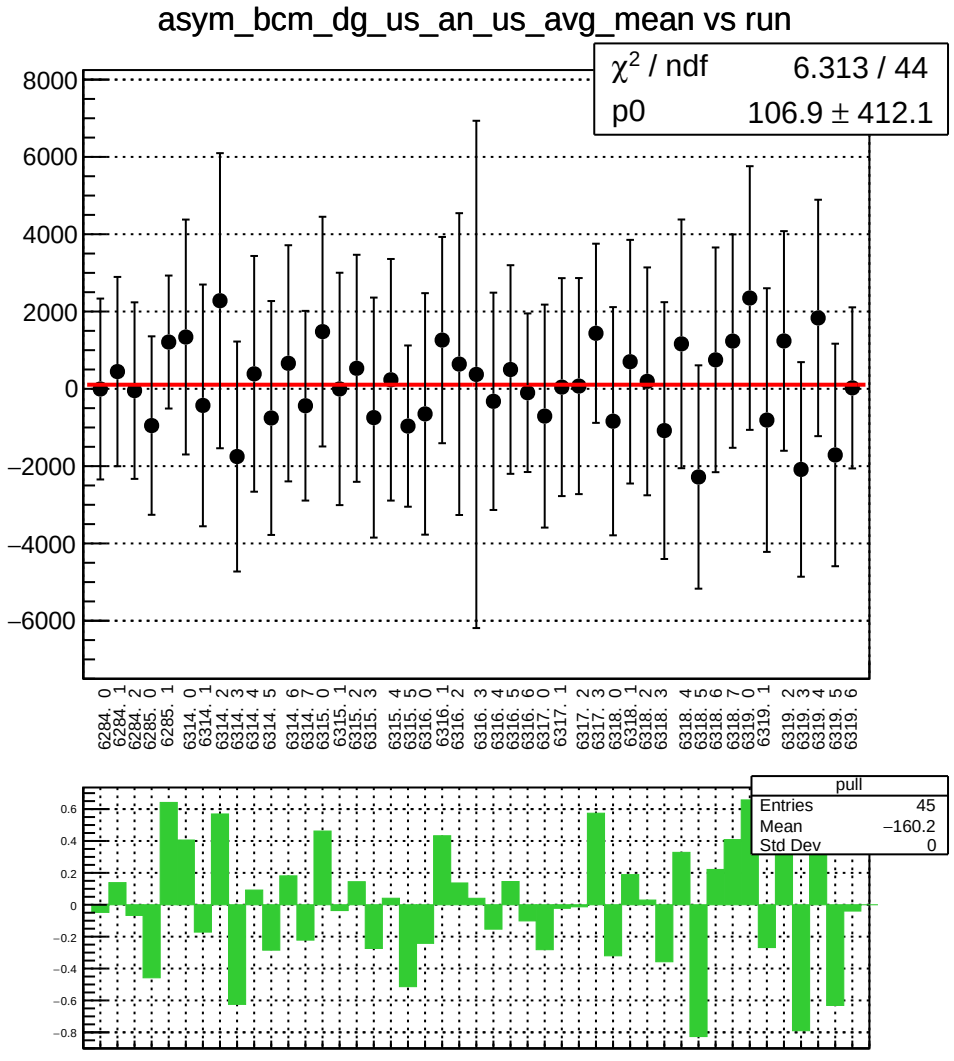
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −20.44
Std Dev 37.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.006787
Std Dev 0.9665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1989 / 44
p0 31.19 ± 0.03279
38
36
34
32
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 6.313 / 44
p0 106.9 ± 412.1
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
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6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −160.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.001312
Std Dev 0.3745
16
14
12
10
8
6
4
2
0
−8
−6
−4
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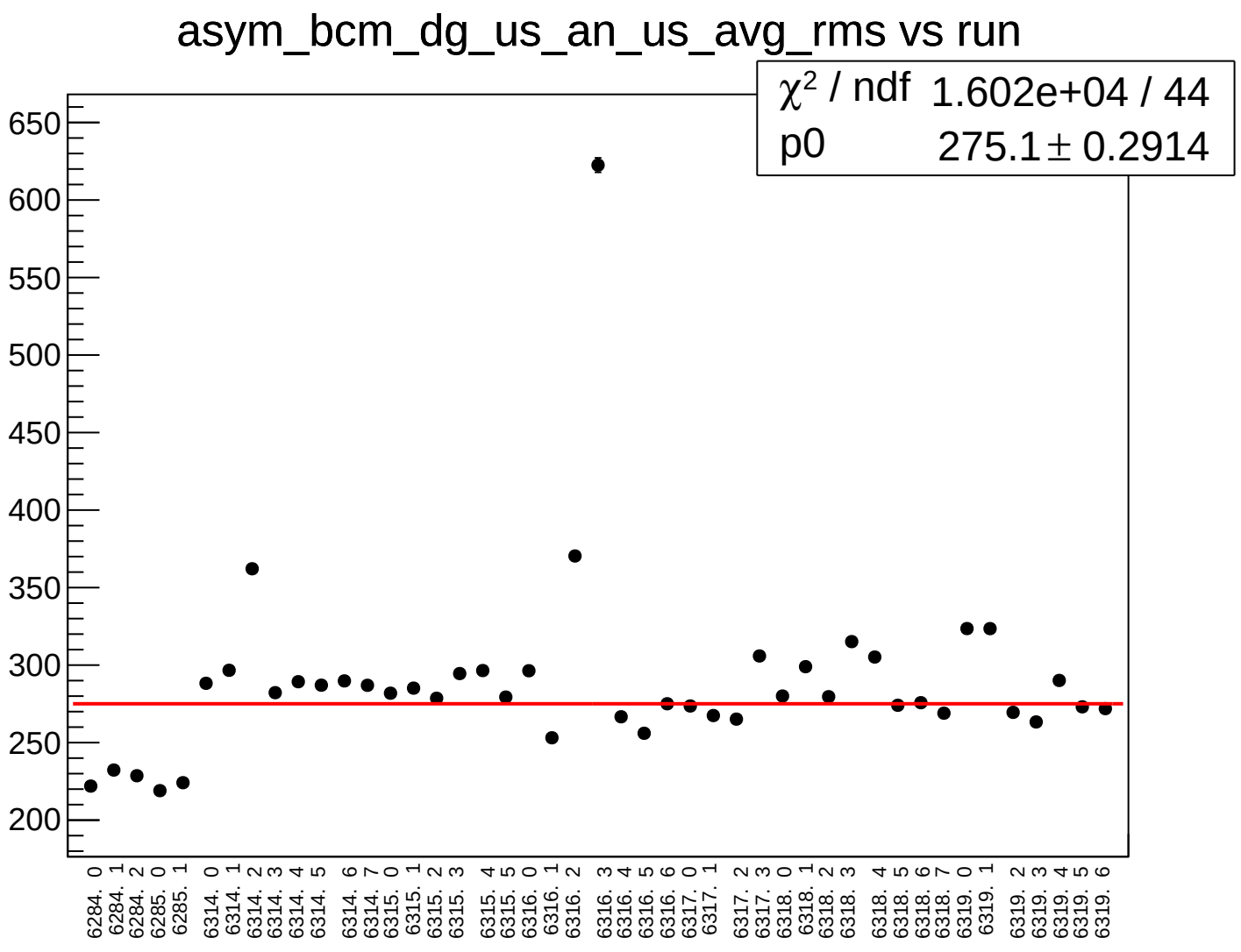
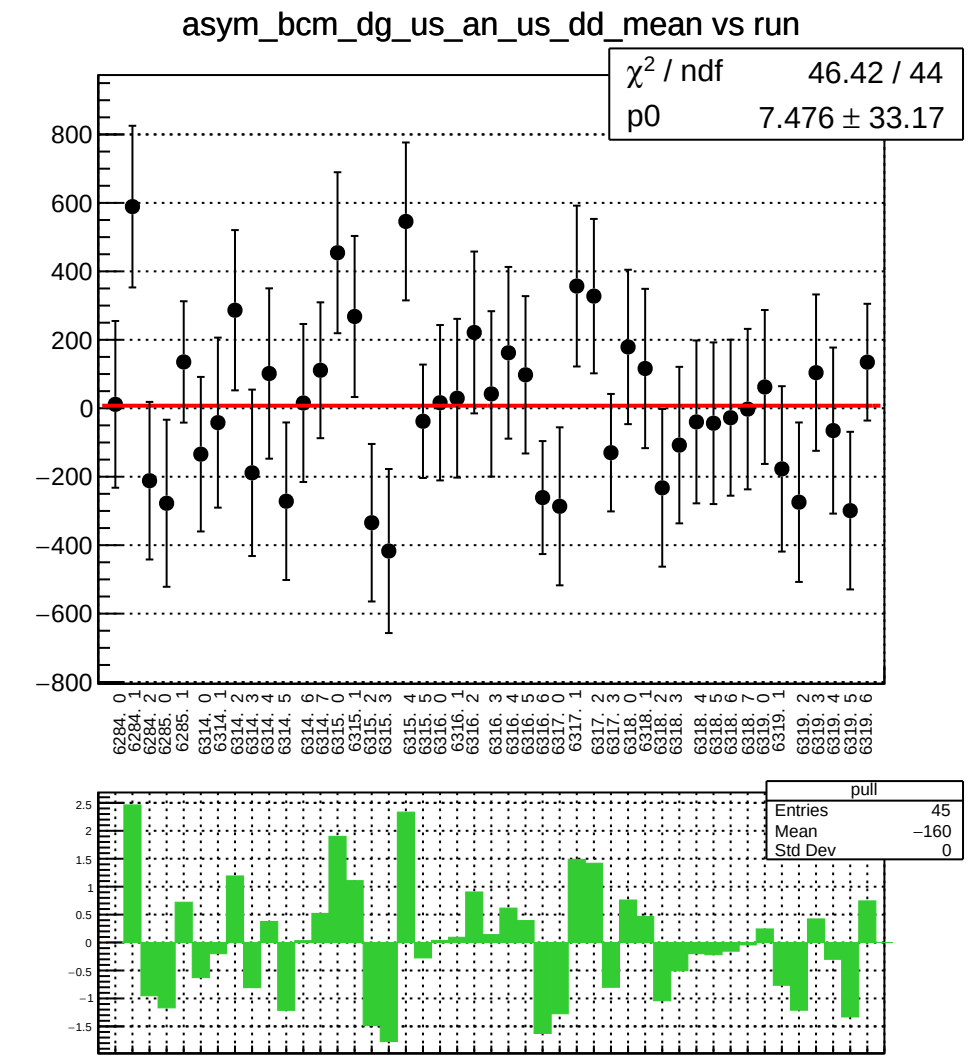
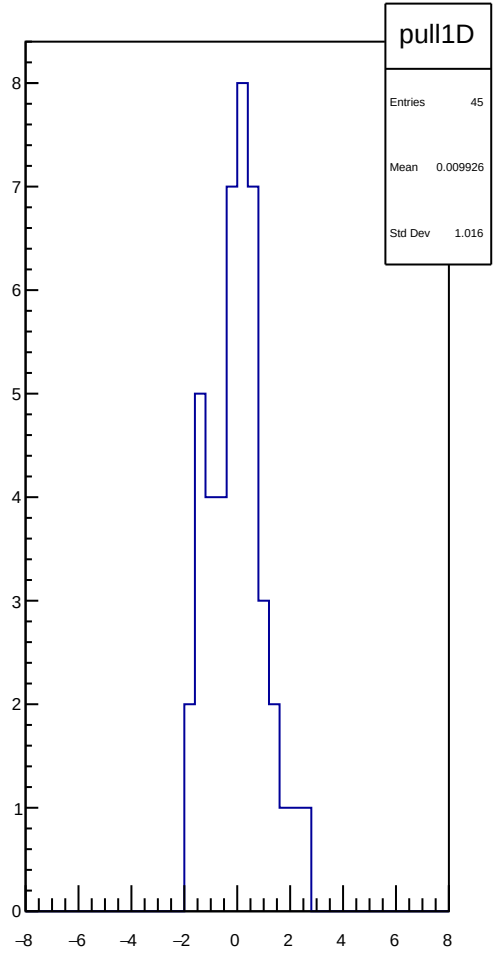
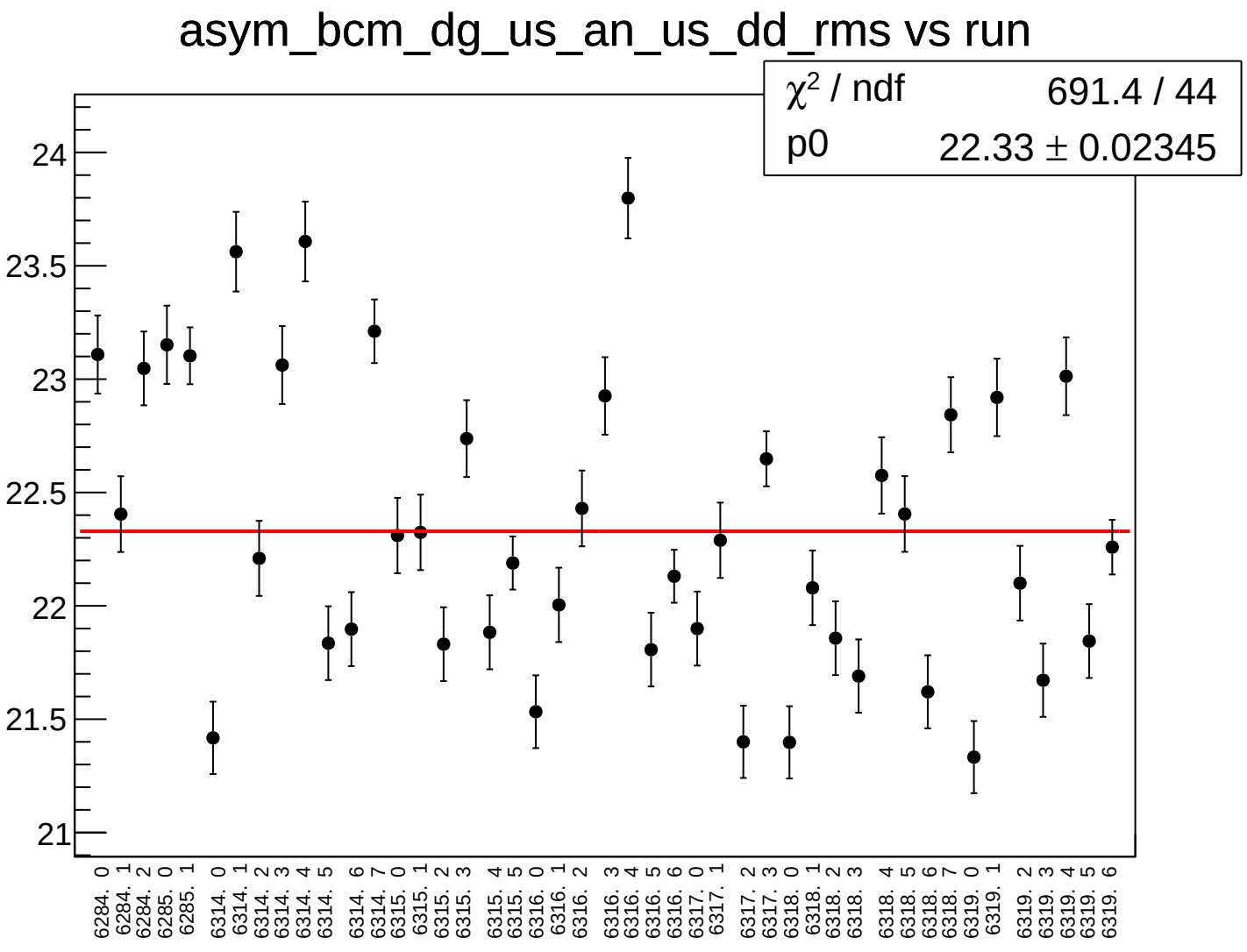
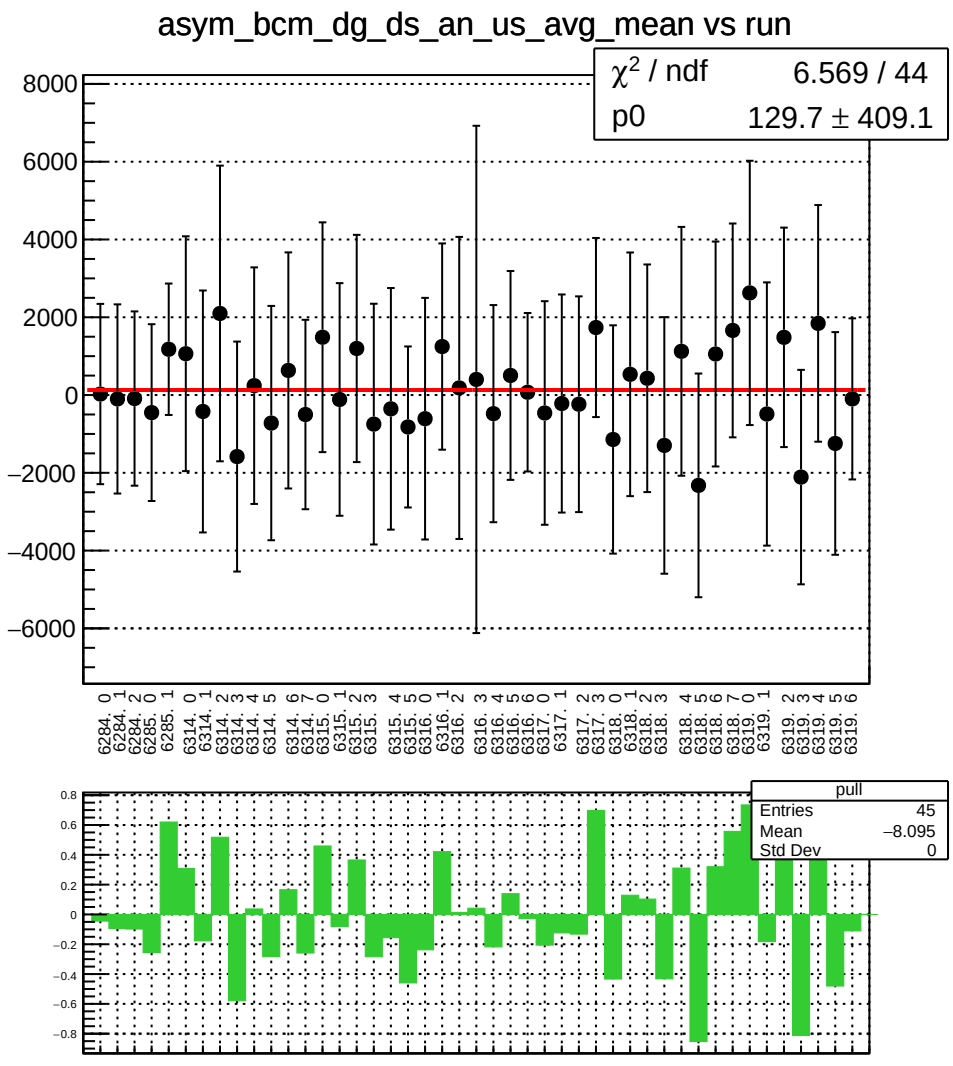
0
2
4
6
8

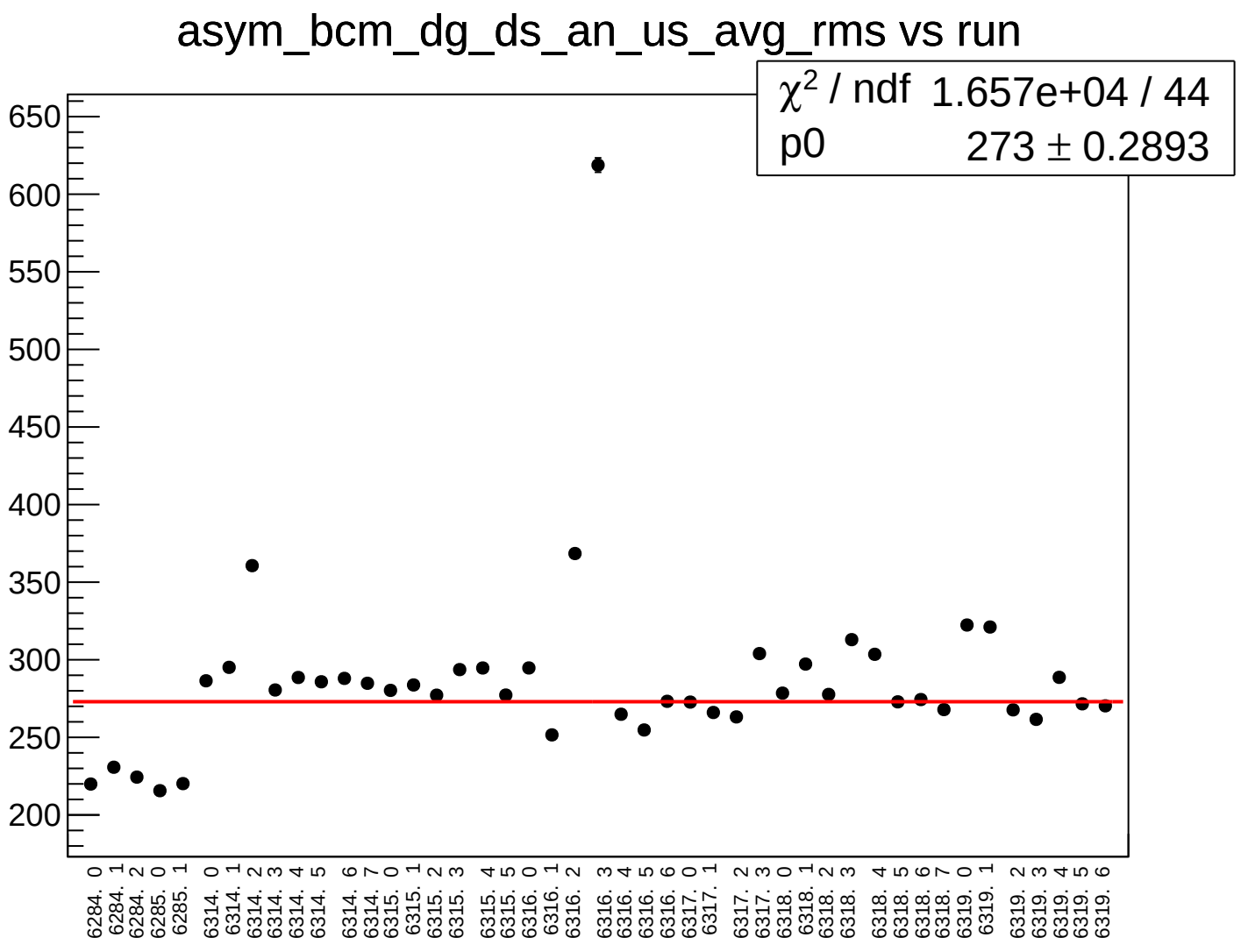

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.602e+04 / 44
p0 275.1 ± 0.2914
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

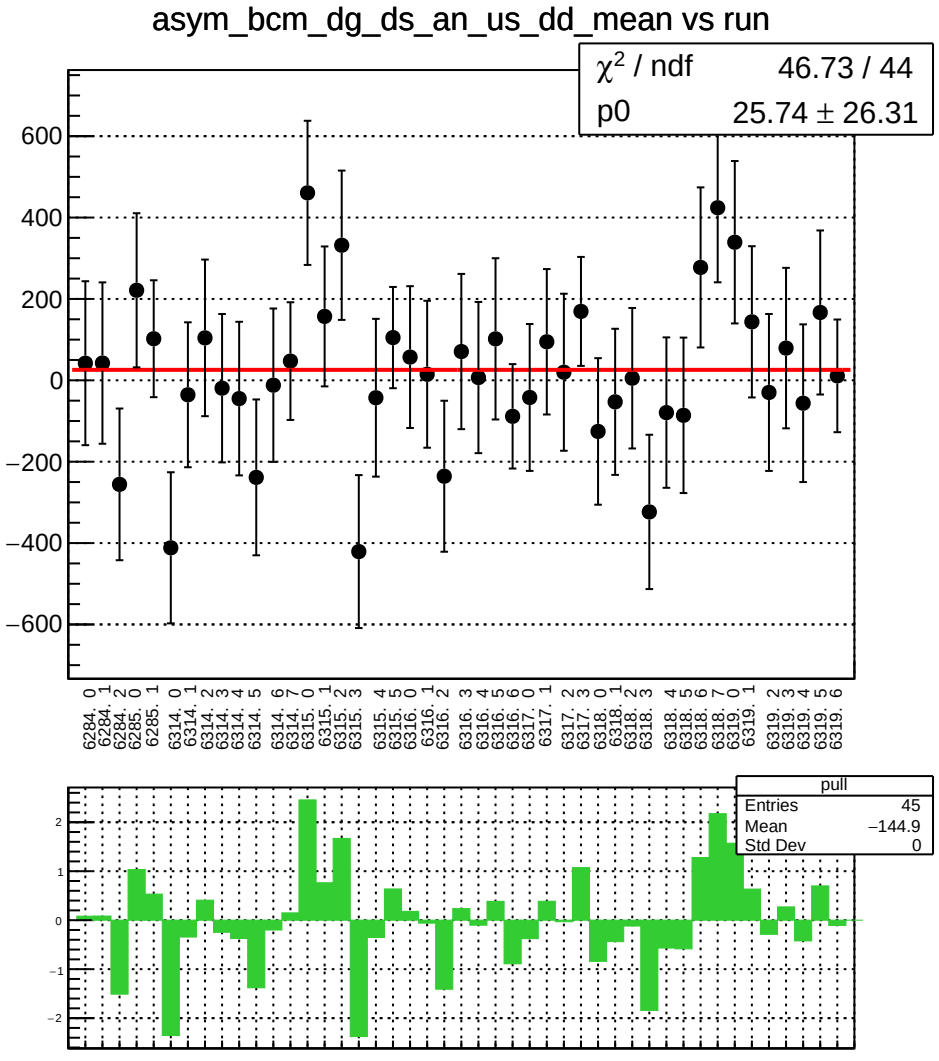

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 46.42 / 44
p0 7.476 ± 33.17
pull
Entries 45
Mean −160
Std Dev 0

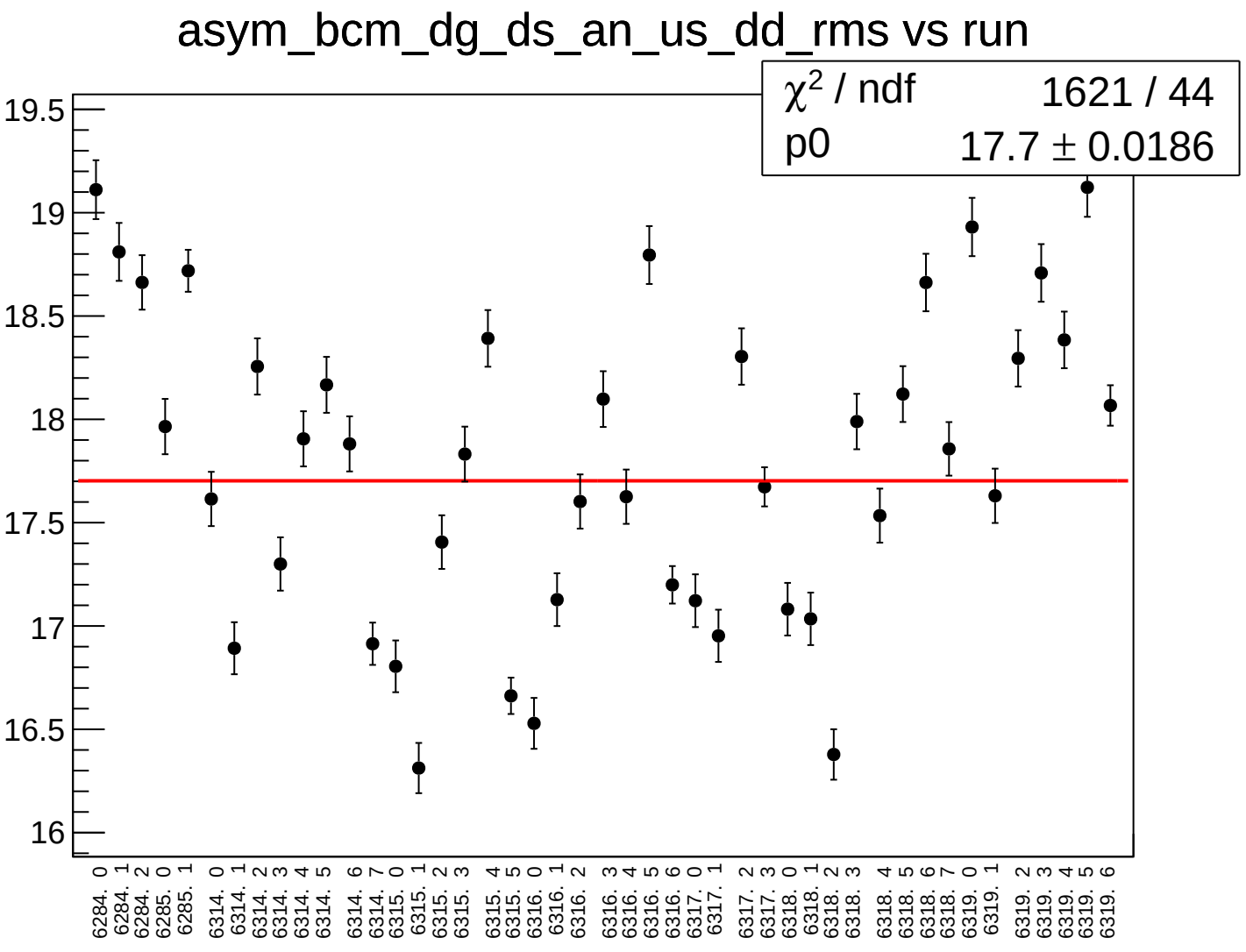

pull1D
Entries 45
Mean 0.009926
Std Dev 1.016

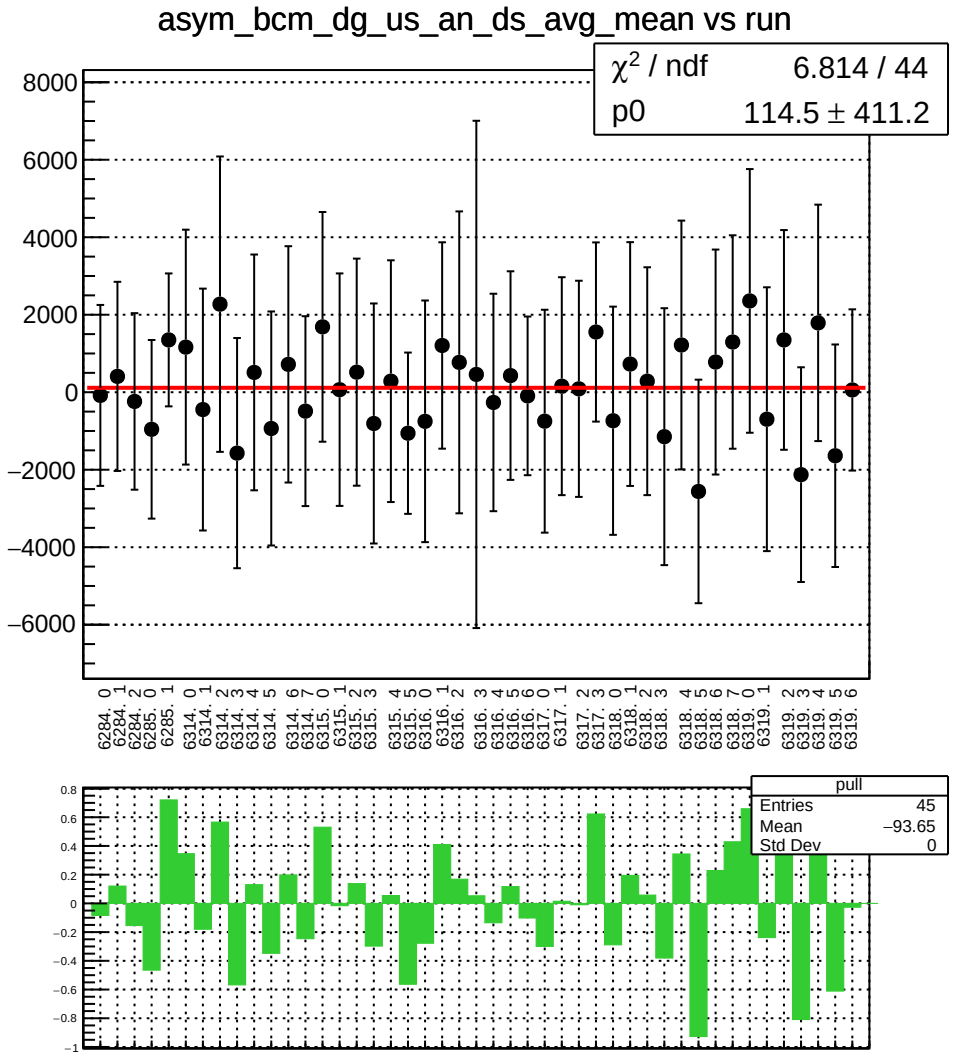

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 691.4 / 44
p0 22.33 ± 0.02345
24
23.5
23
22.5
22
21.5
21
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

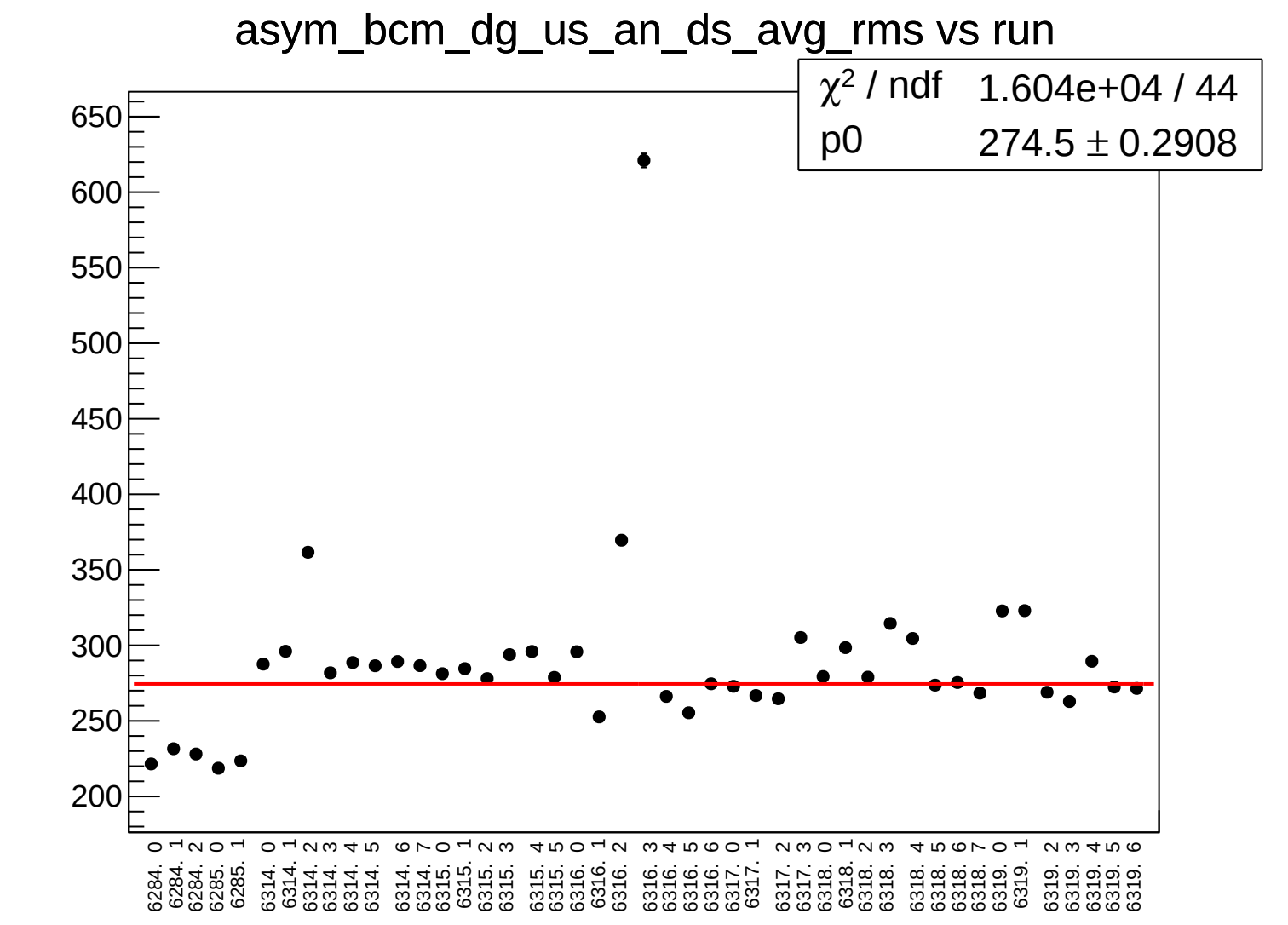

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 6.569 / 44
p0 129.7 ± 409.1
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −8.095
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0007584
Std Dev 0.3821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

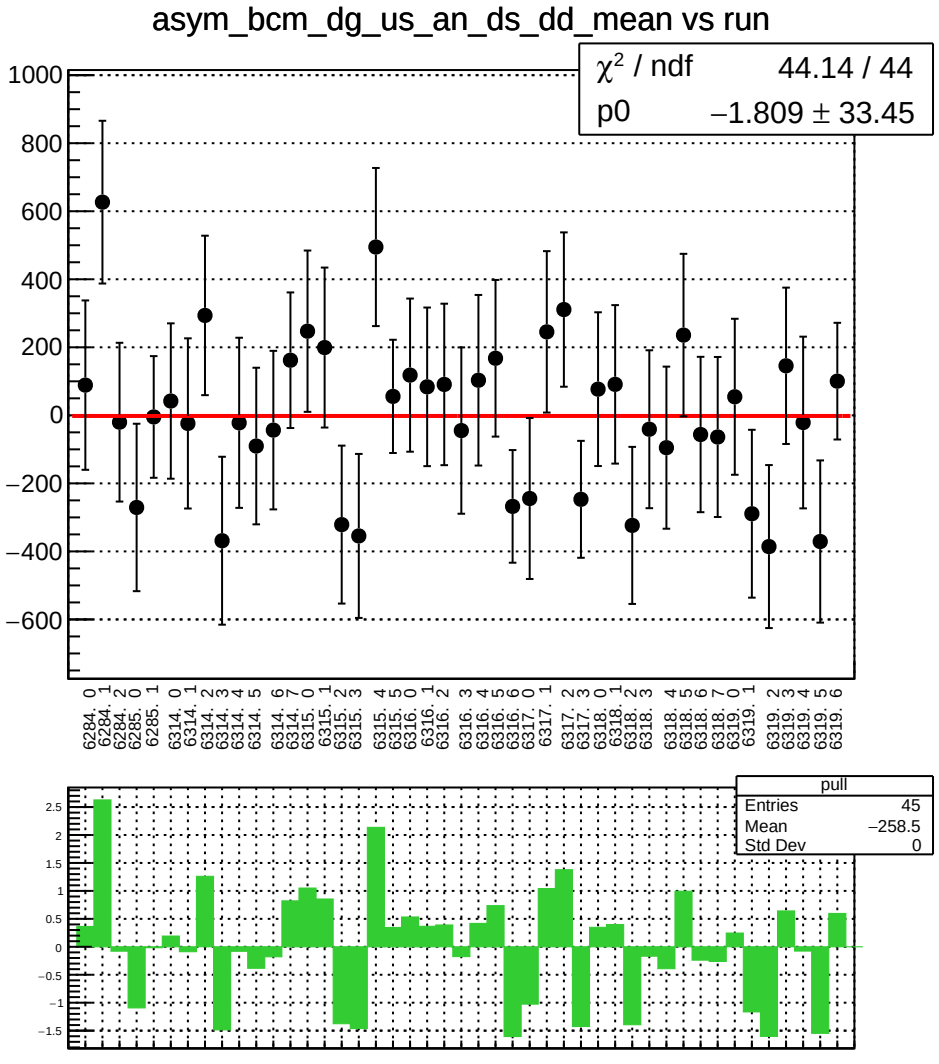

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.657e+04 / 44
p0 273 ± 0.2893
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

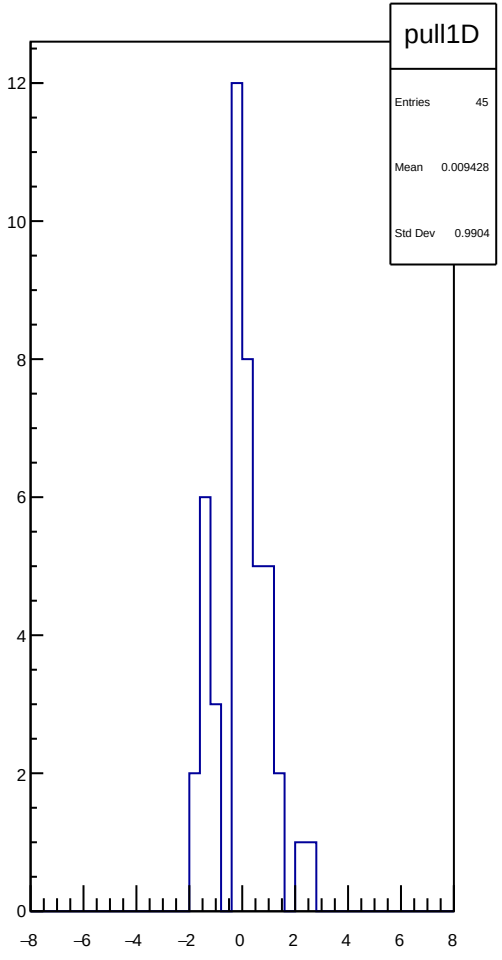

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 46.73 / 44
p0 25.74 ± 26.31
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −144.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01149
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

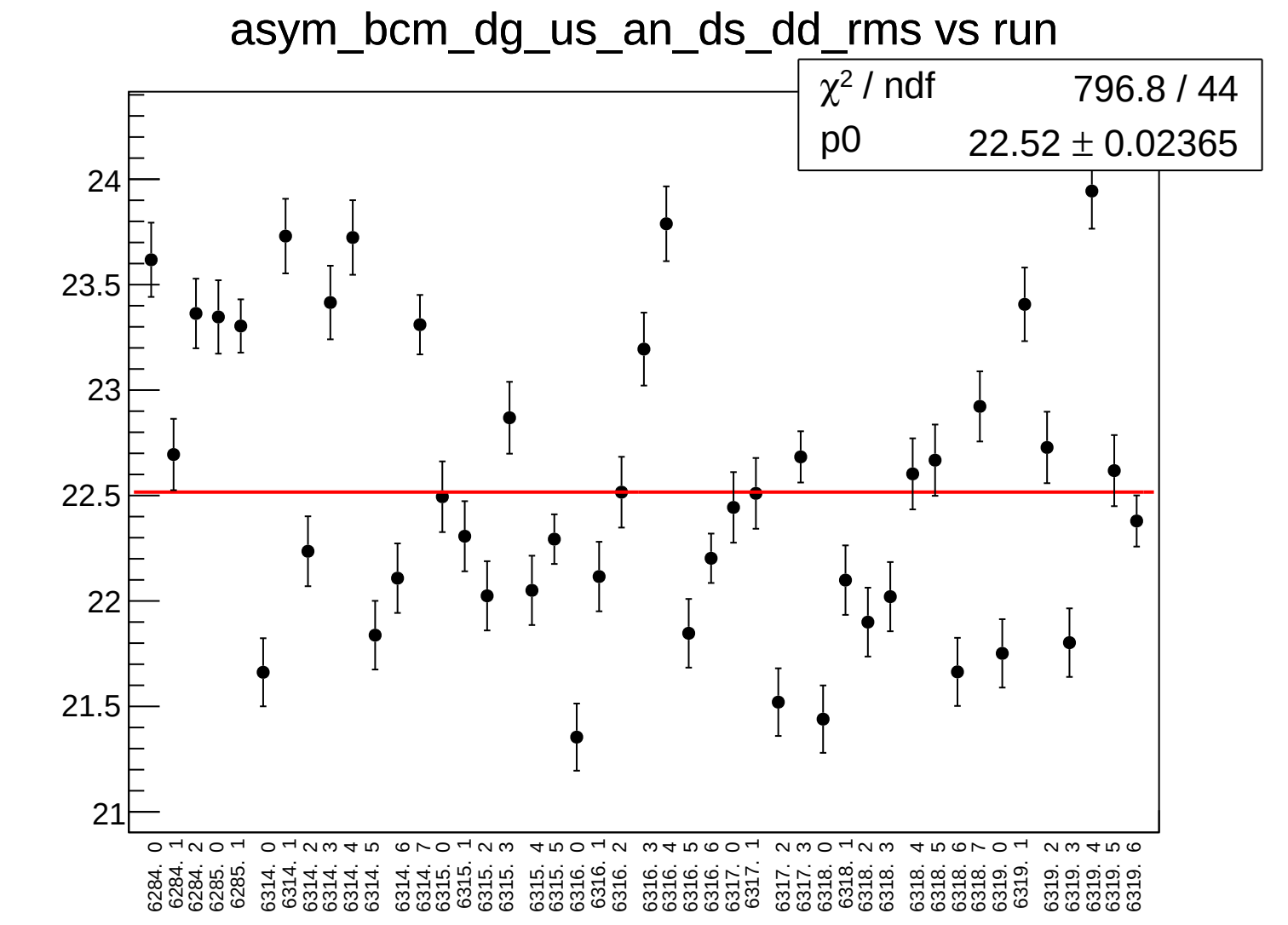

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1621 / 44
p0 17.7 ± 0.0186
19.5
19
18.5
18
17.5
17
16.5
16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

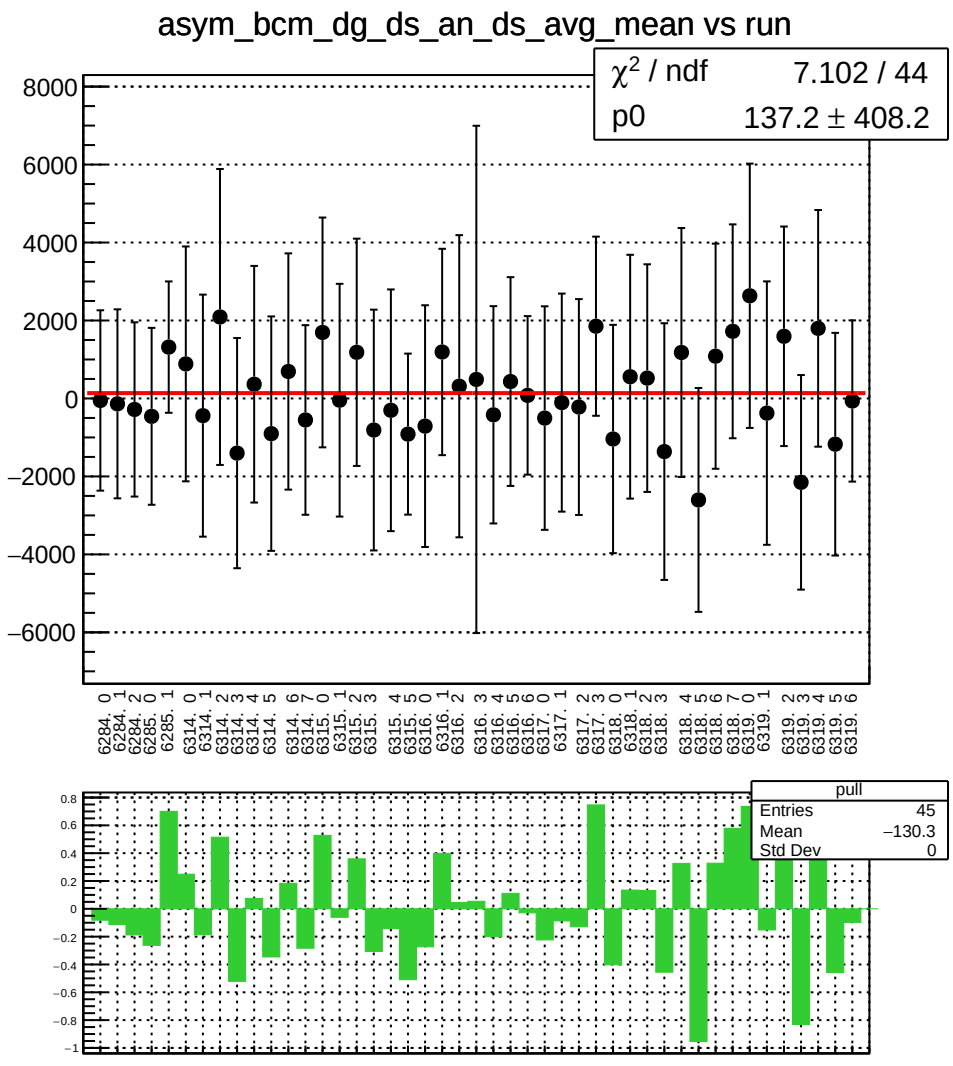

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 6.814 / 44
p0 114.5 ± 411.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −93.65
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.001429
Std Dev 0.3891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

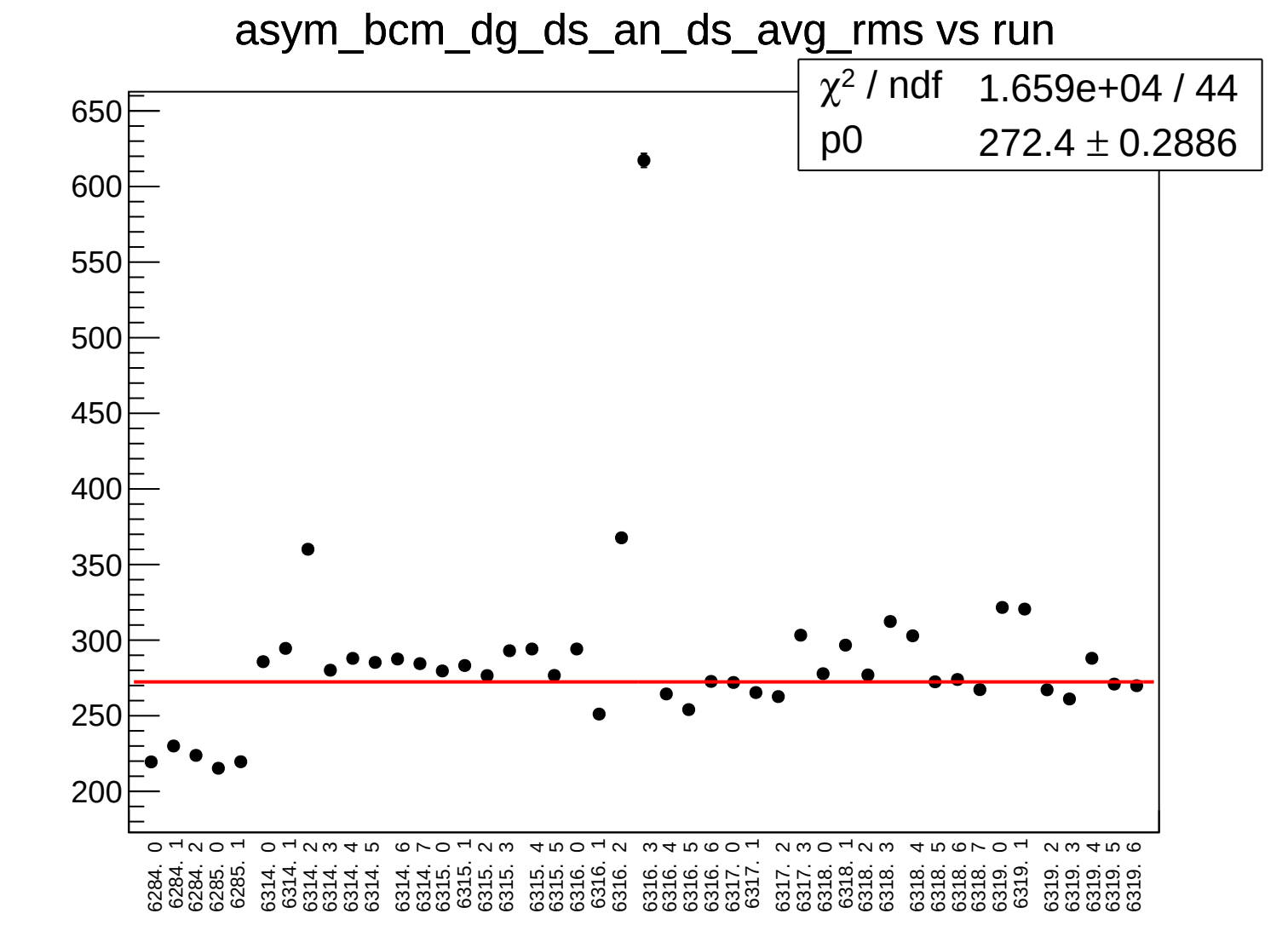

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.604e+04 / 44
p0 274.5 ± 0.2908
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

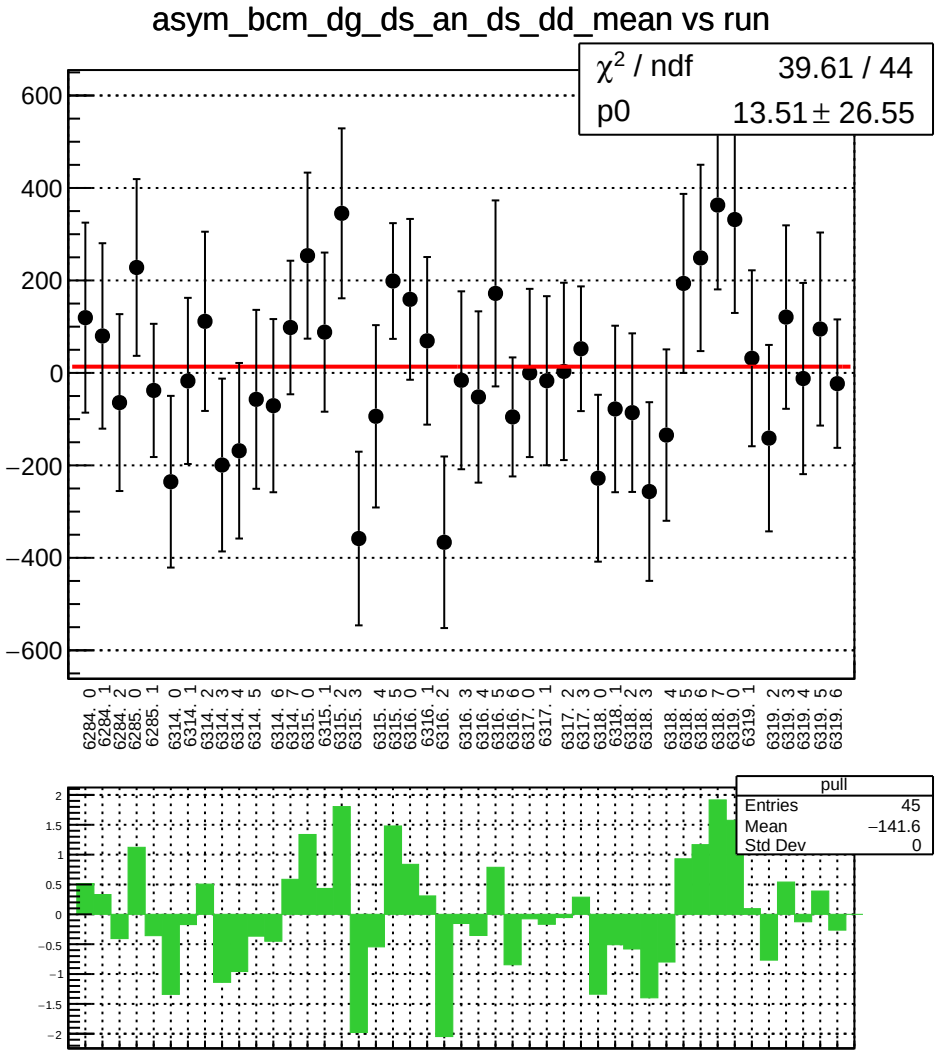

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 44.14 / 44
p0 −1.809 ± 33.45
pull
Entries 45
Mean −258.5
Std Dev 0

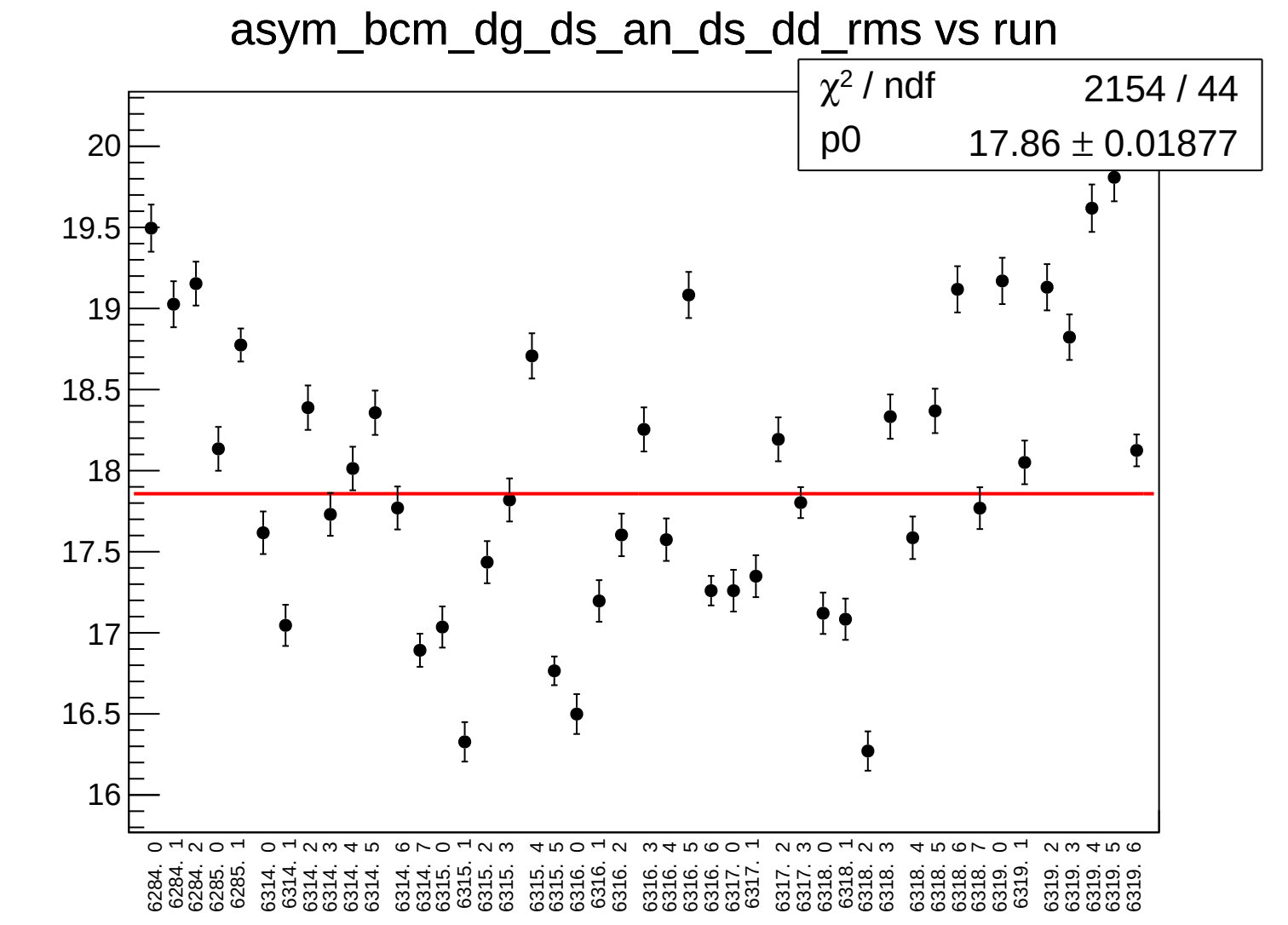

pull1D
Entries 45
Mean 0.009428
Std Dev 0.9904

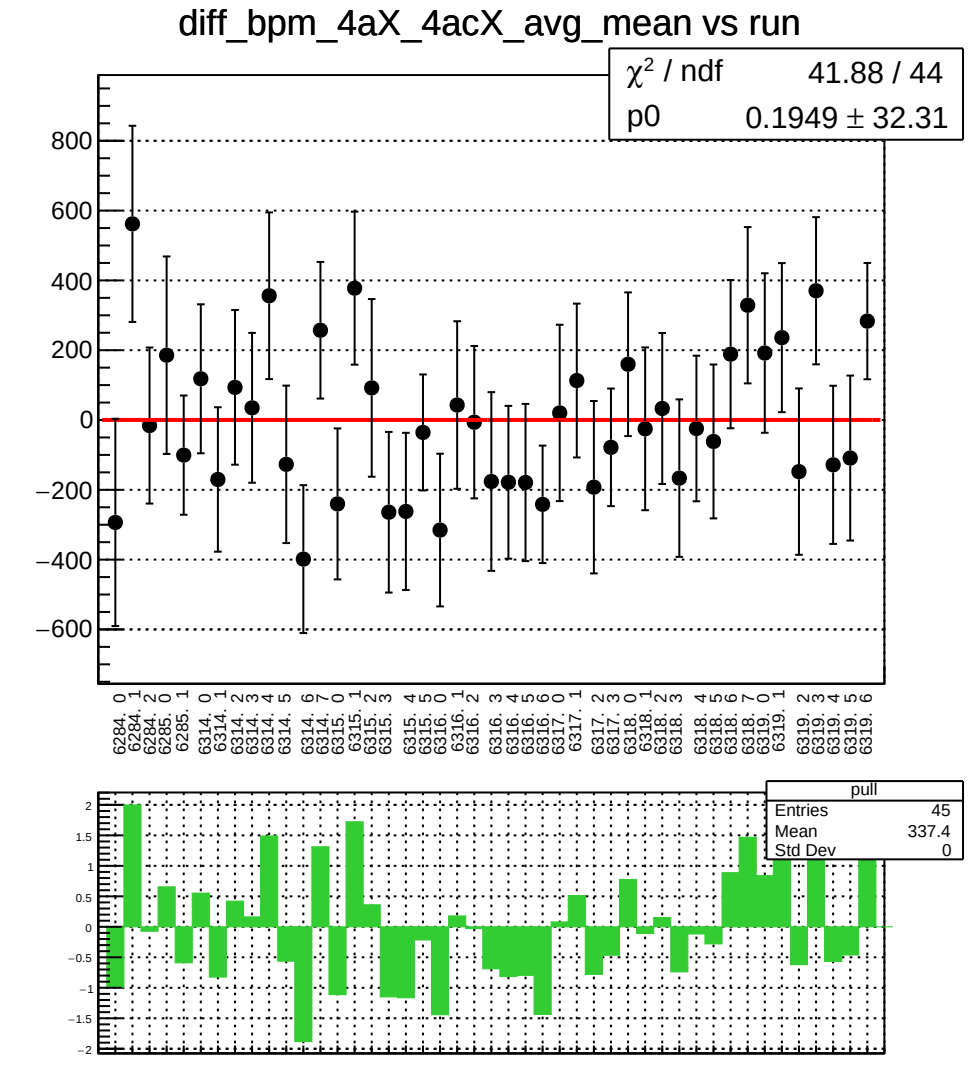

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 796.8 / 44
p0 22.52 ± 0.02365
24
23.5
23
22.5
22
21.5
21
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

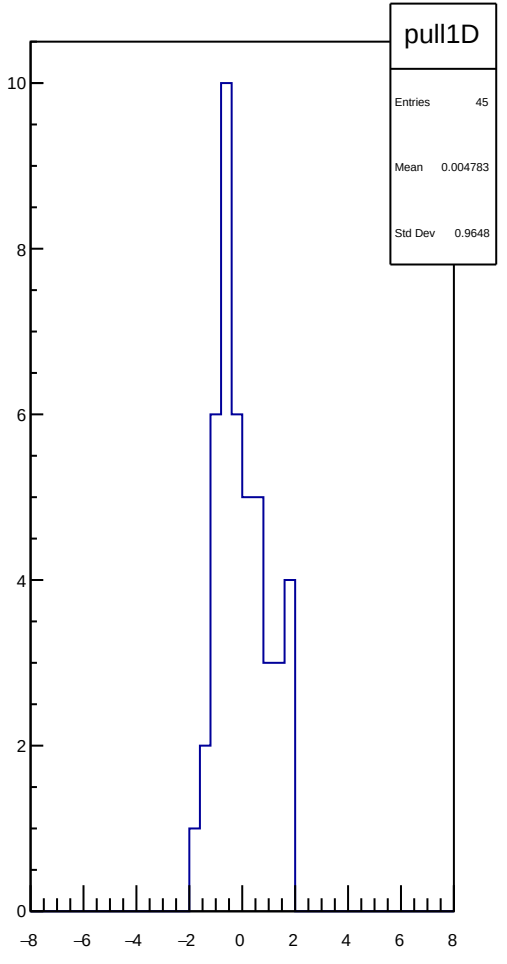

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 7.102 / 44
p0 137.2 ± 408.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −130.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.0006442
Std Dev 0.3973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

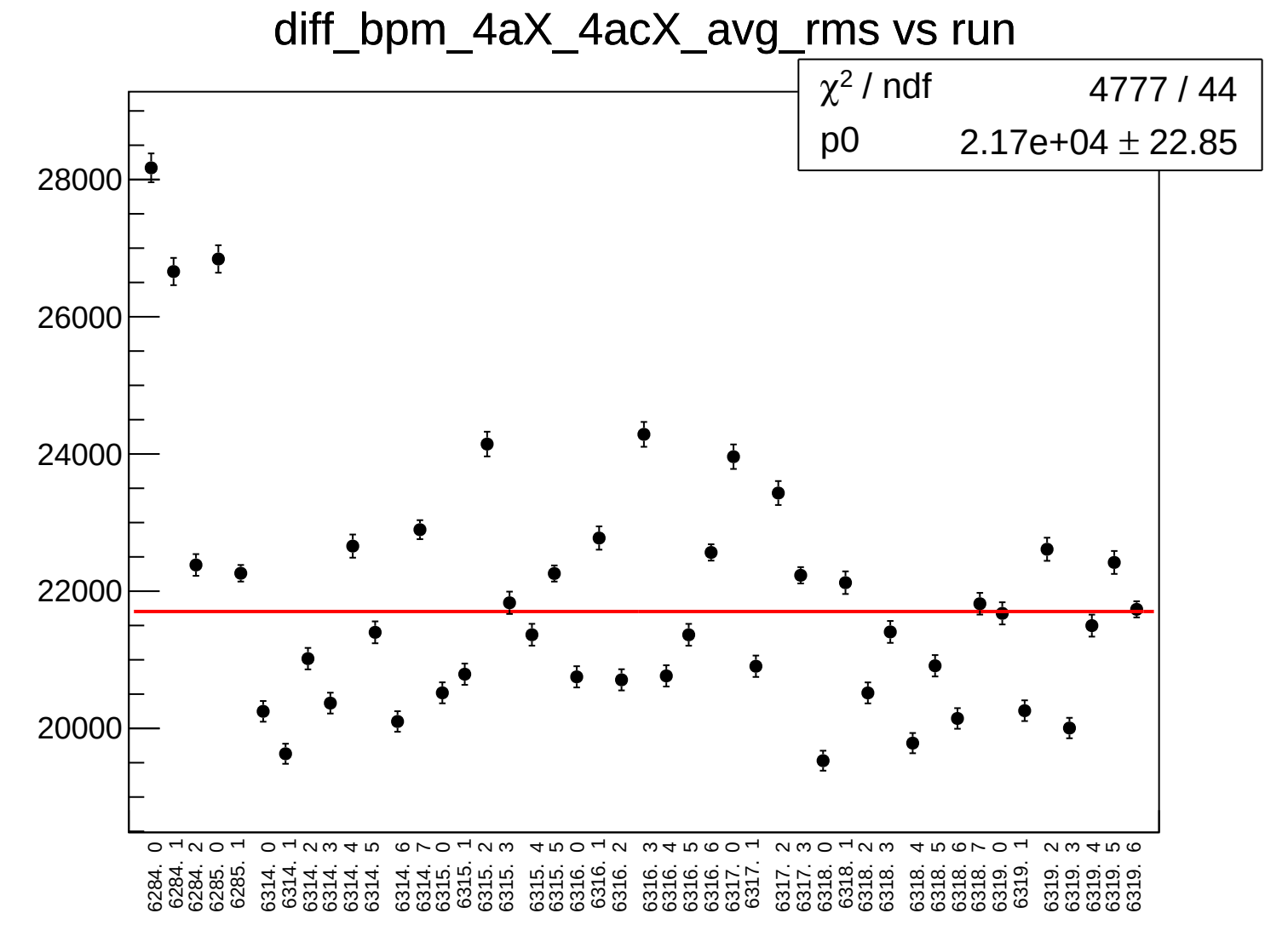

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.659e+04 / 44
p0 272.4 ± 0.2886
650
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

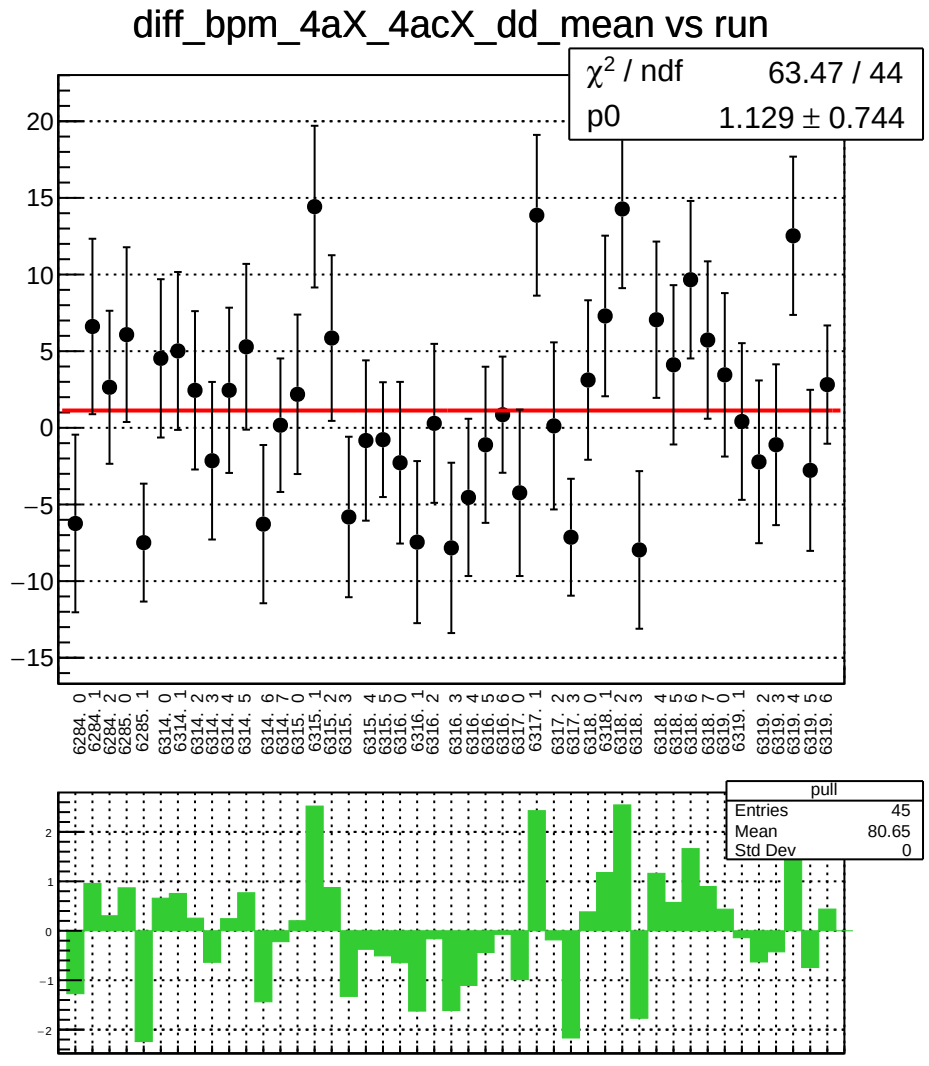

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 39.61 / 44
p0 13.51 ± 26.55
pull
Entries 45
Mean −141.6
Std Dev 0
pull1D
Entries 45
Mean −0.005109
Std Dev 0.9382

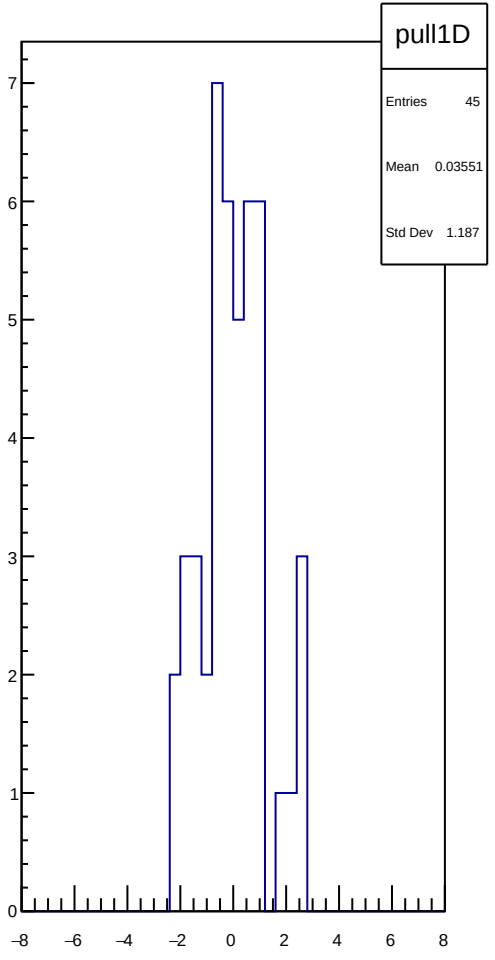

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2154 / 44
p0 17.86 ± 0.01877
20
19.5
19
18.5
18
17.5
17
16.5
16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

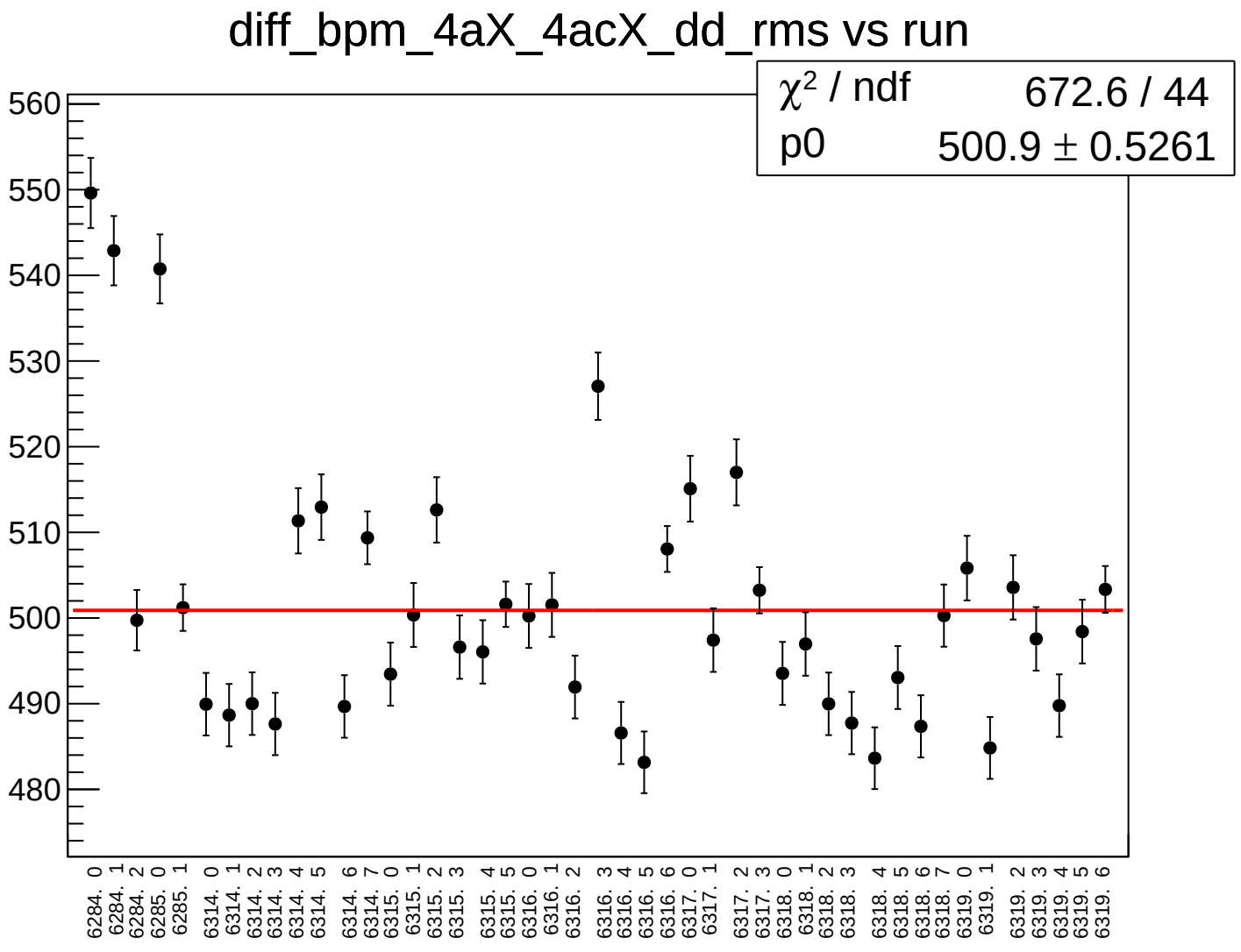

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 41.88 / 44
p0 0.1949 ± 32.31
pull
Entries 45
Mean 337.4
Std Dev 0

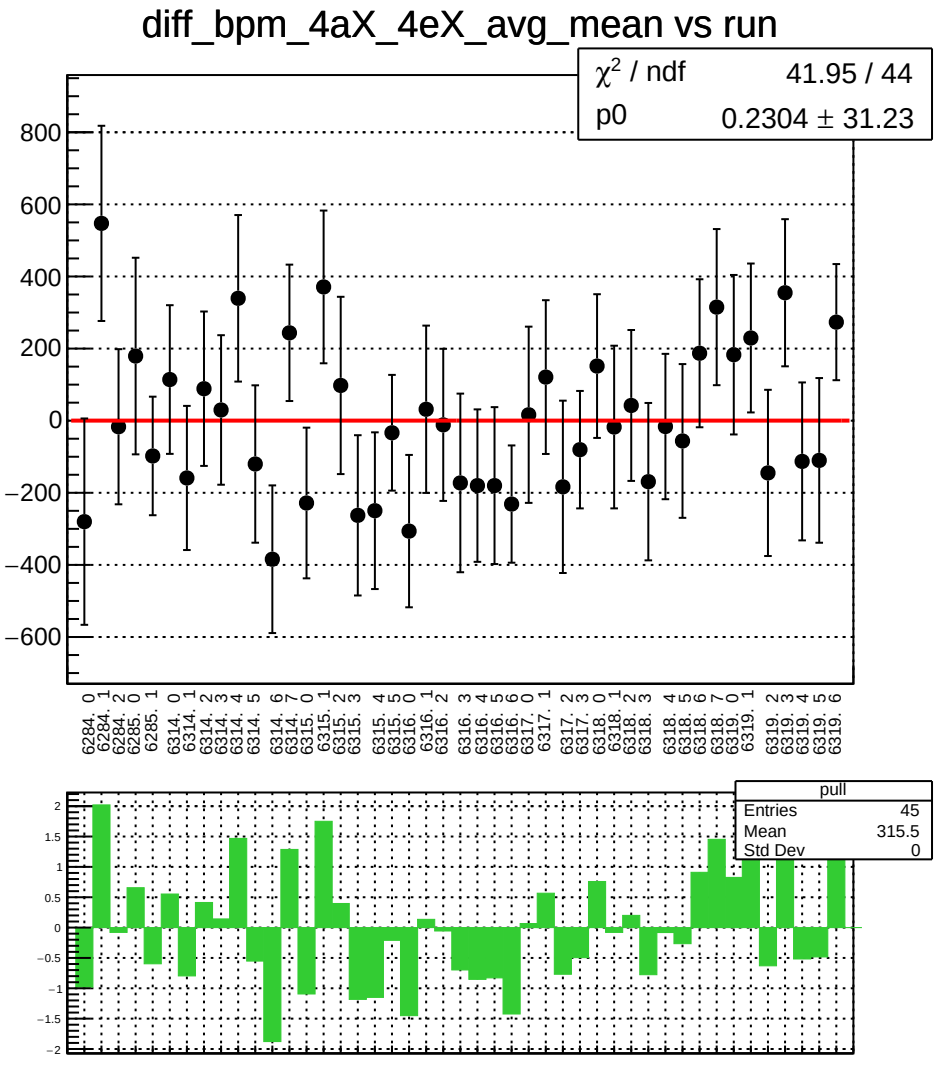

pull1D
Entries 45
Mean 0.004783
Std Dev 0.9648

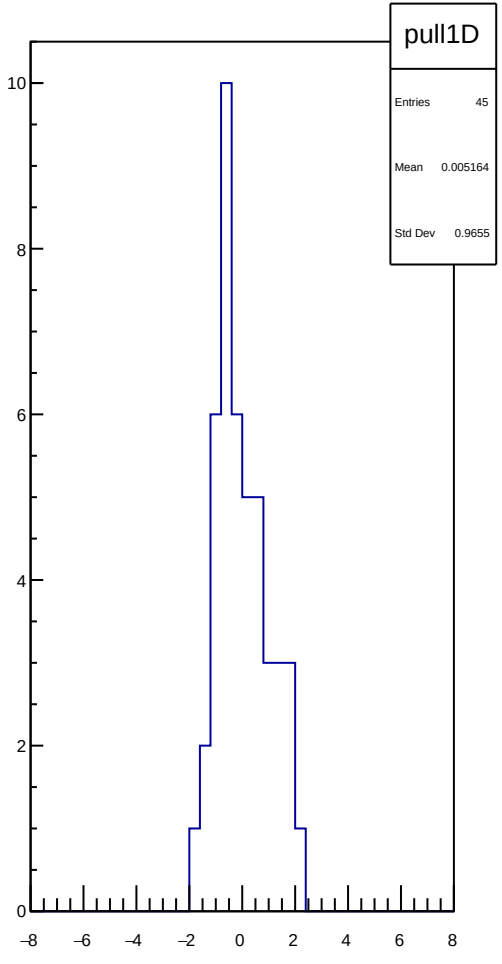

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4777 / 44
p0 2.17e+04 ± 22.85
28000
26000
24000
22000
20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

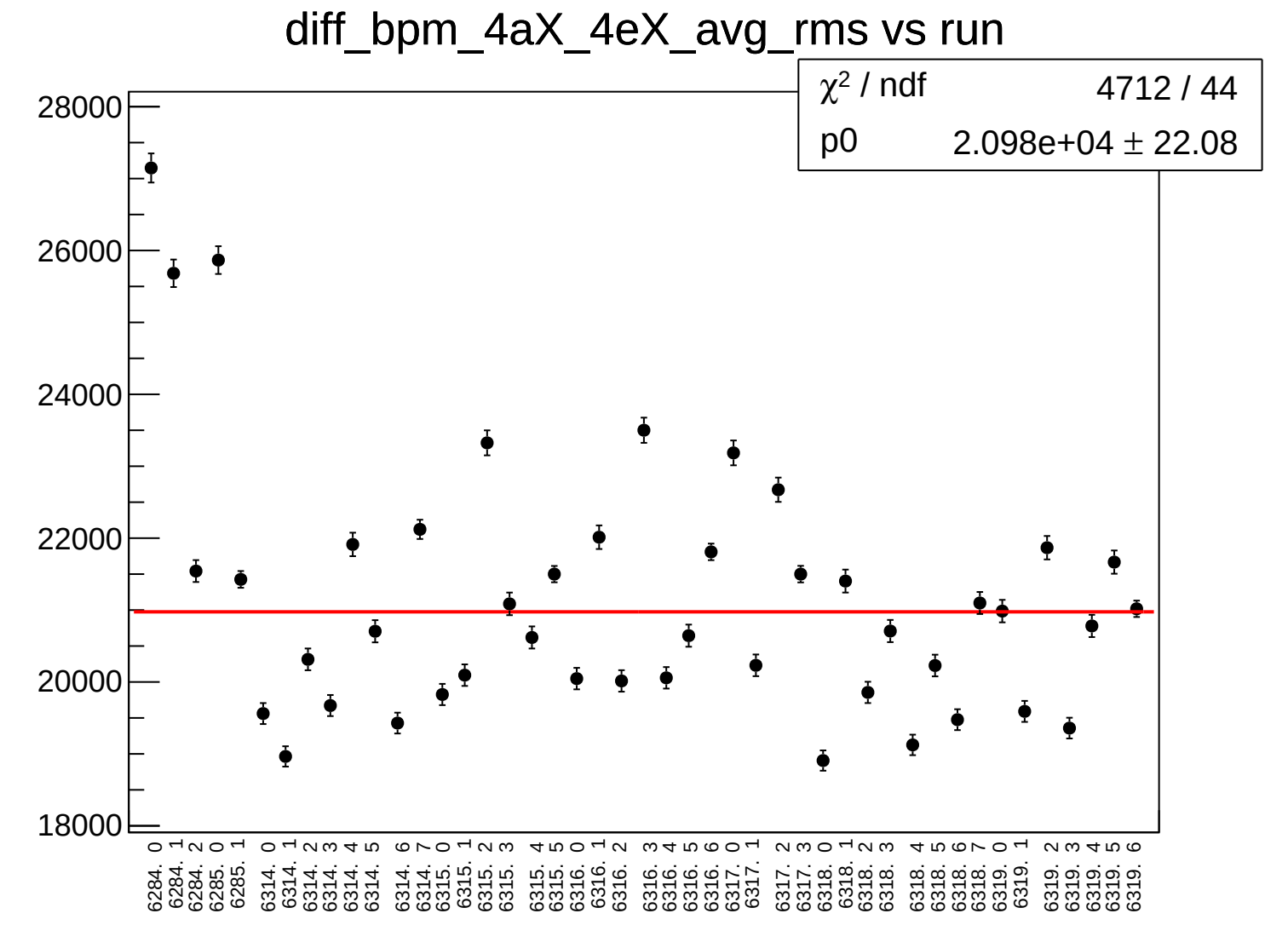

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 63.47 / 44
p0 1.129 ± 0.744
pull
Entries 45
Mean 80.65
Std Dev 0

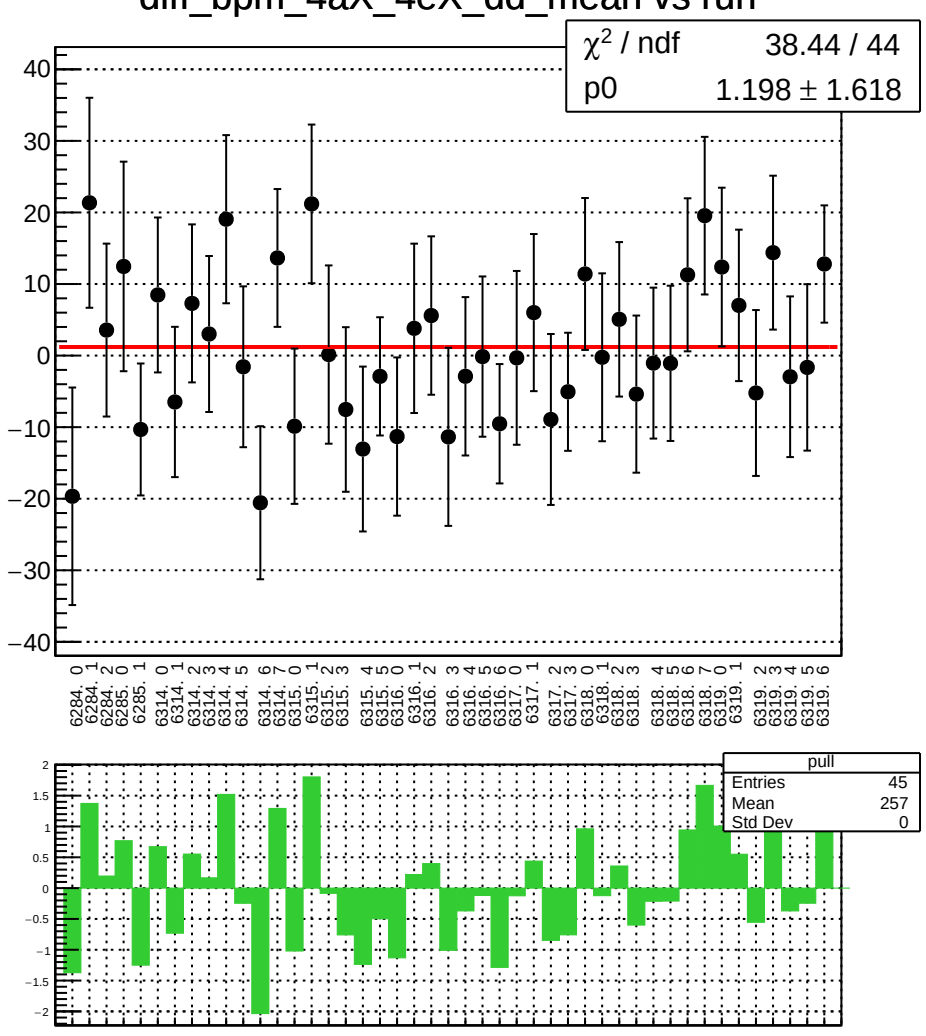

pull1D
Entries 45
Mean 0.03551
Std Dev 1.187

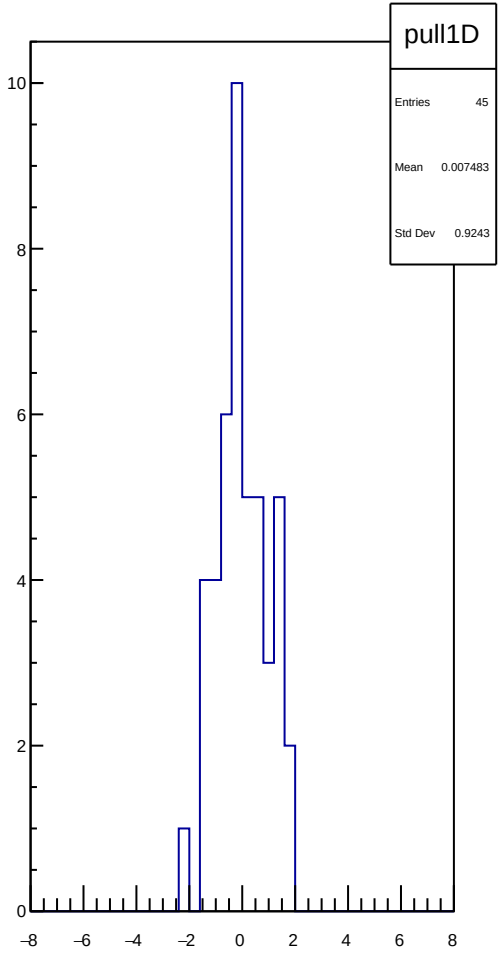

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 672.6 / 44
p0 500.9 ± 0.5261
560
550
540
530
520
510
500
490
480
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

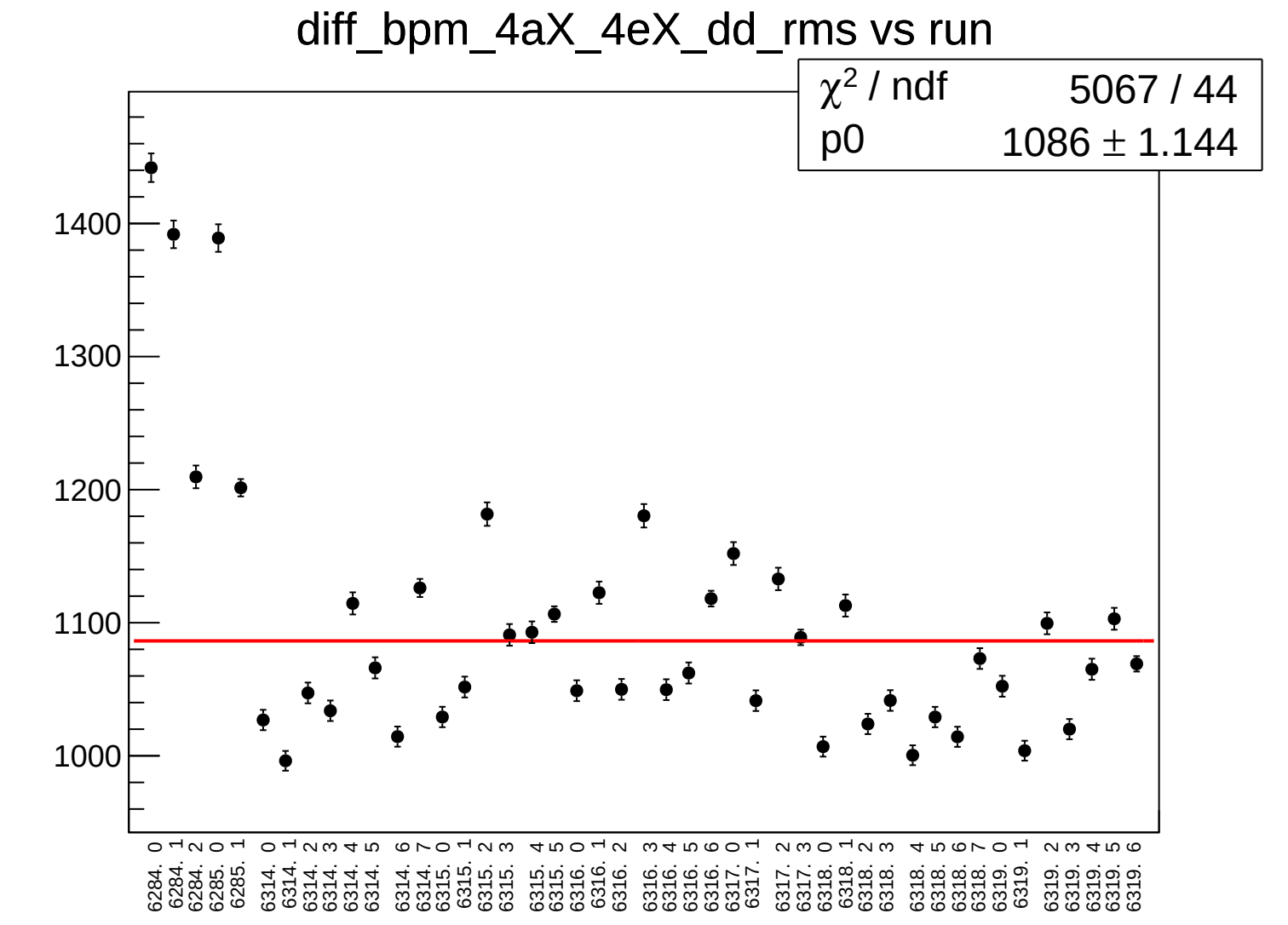

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 41.95 / 44
p0 0.2304 ± 31.23
pull
Entries 45
Mean 315.5
Std Dev 0

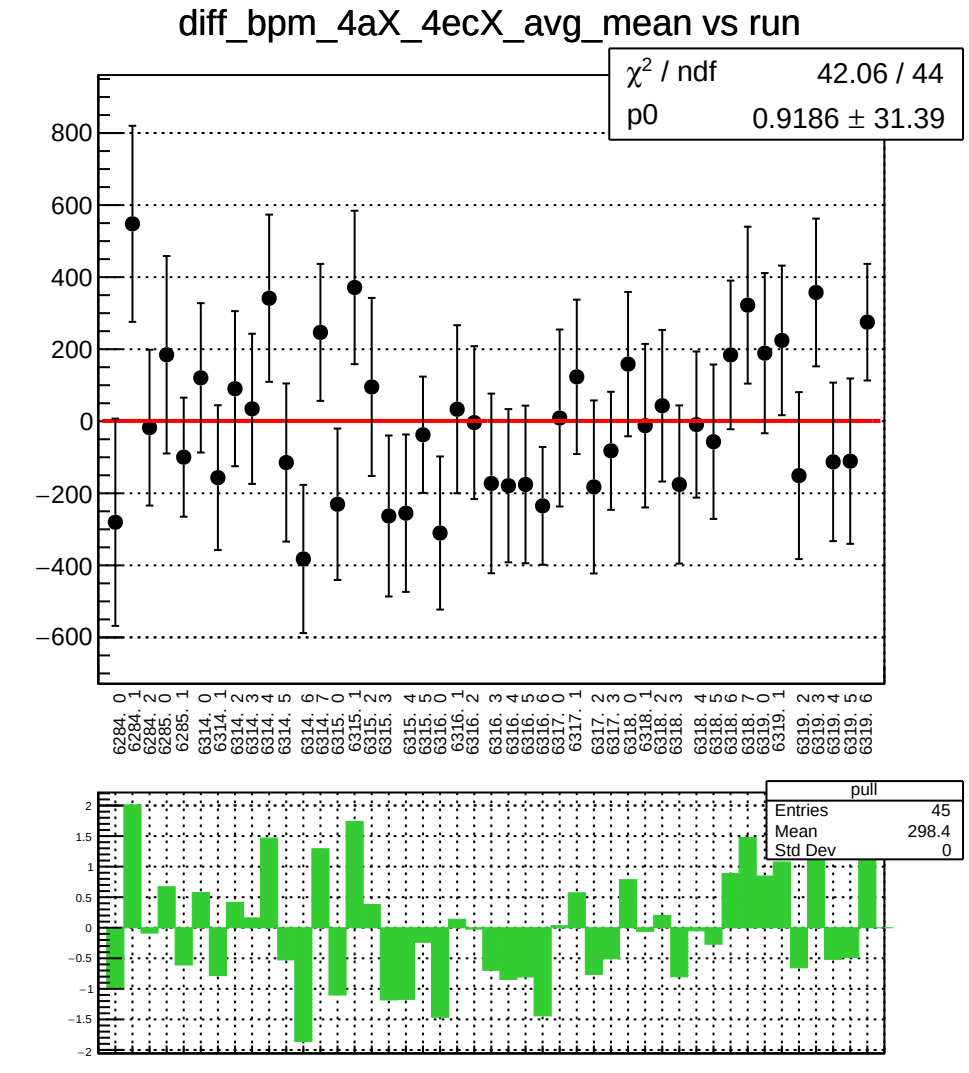

pull1D
Entries 45
Mean 0.005164
Std Dev 0.9655

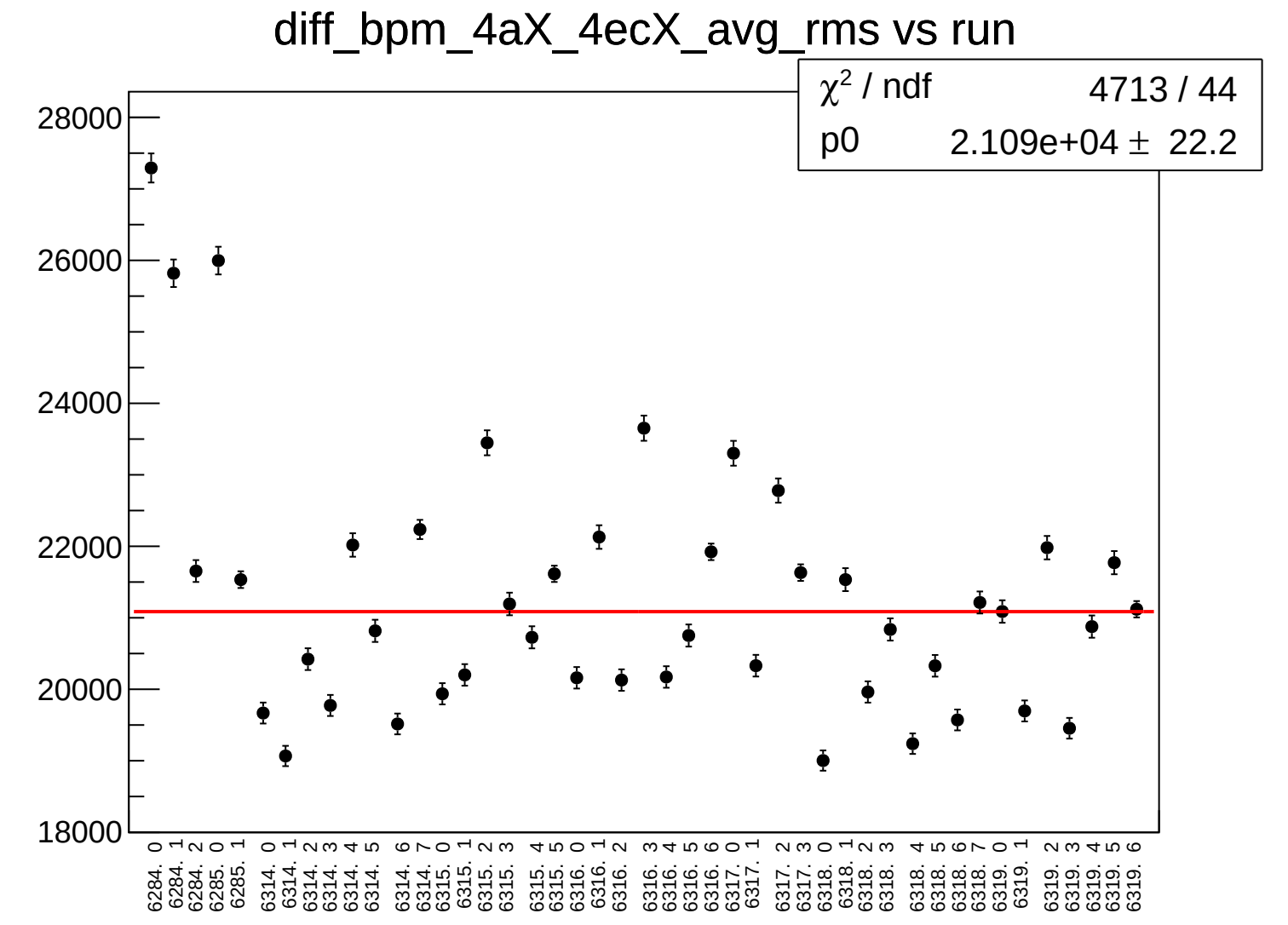

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4712 / 44
p0 2.098e+04 ± 22.08
28000
26000
24000
22000
20000
18000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

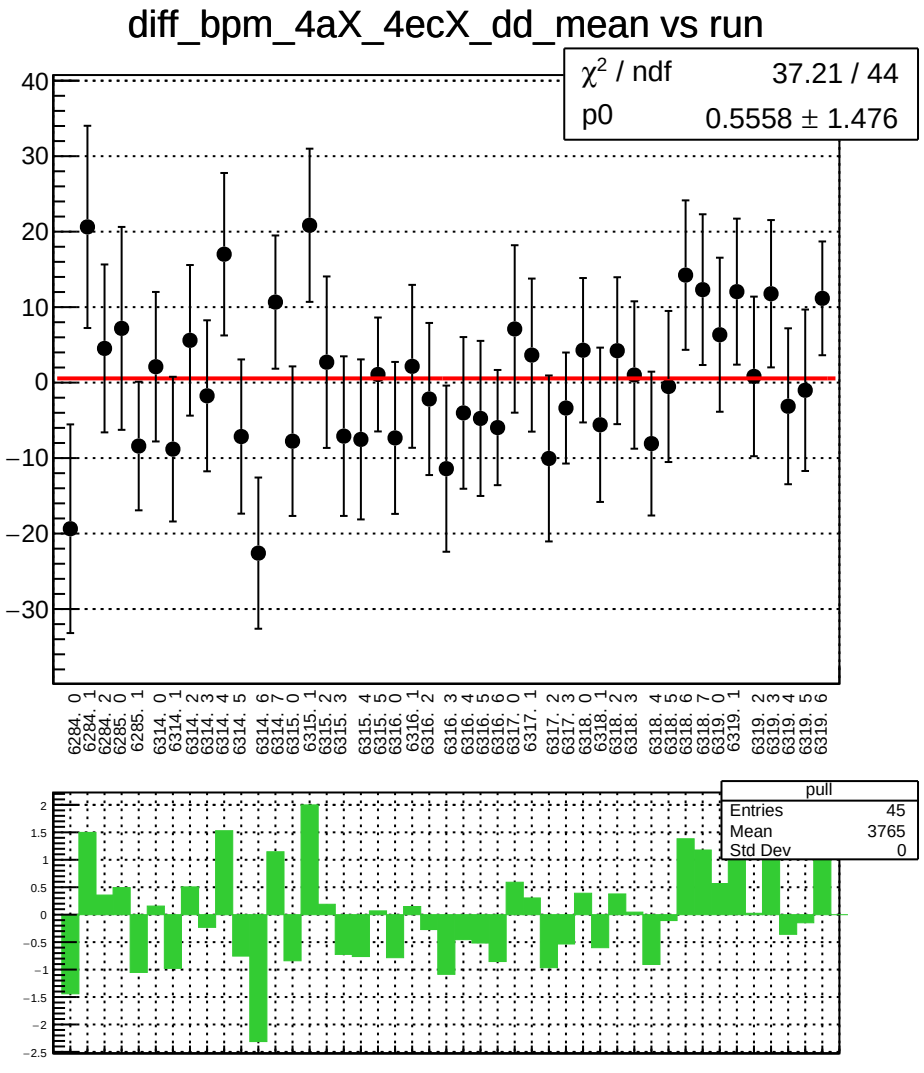

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 38.44 / 44
p0 1.198 ± 1.618
pull
Entries 45
Mean 257
Std Dev 0

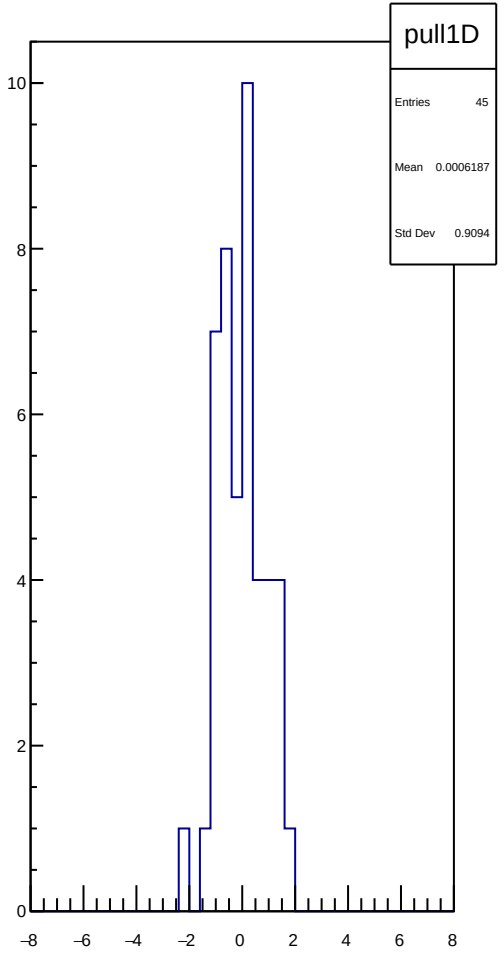

pull1D
Entries 45
Mean 0.007483
Std Dev 0.9243

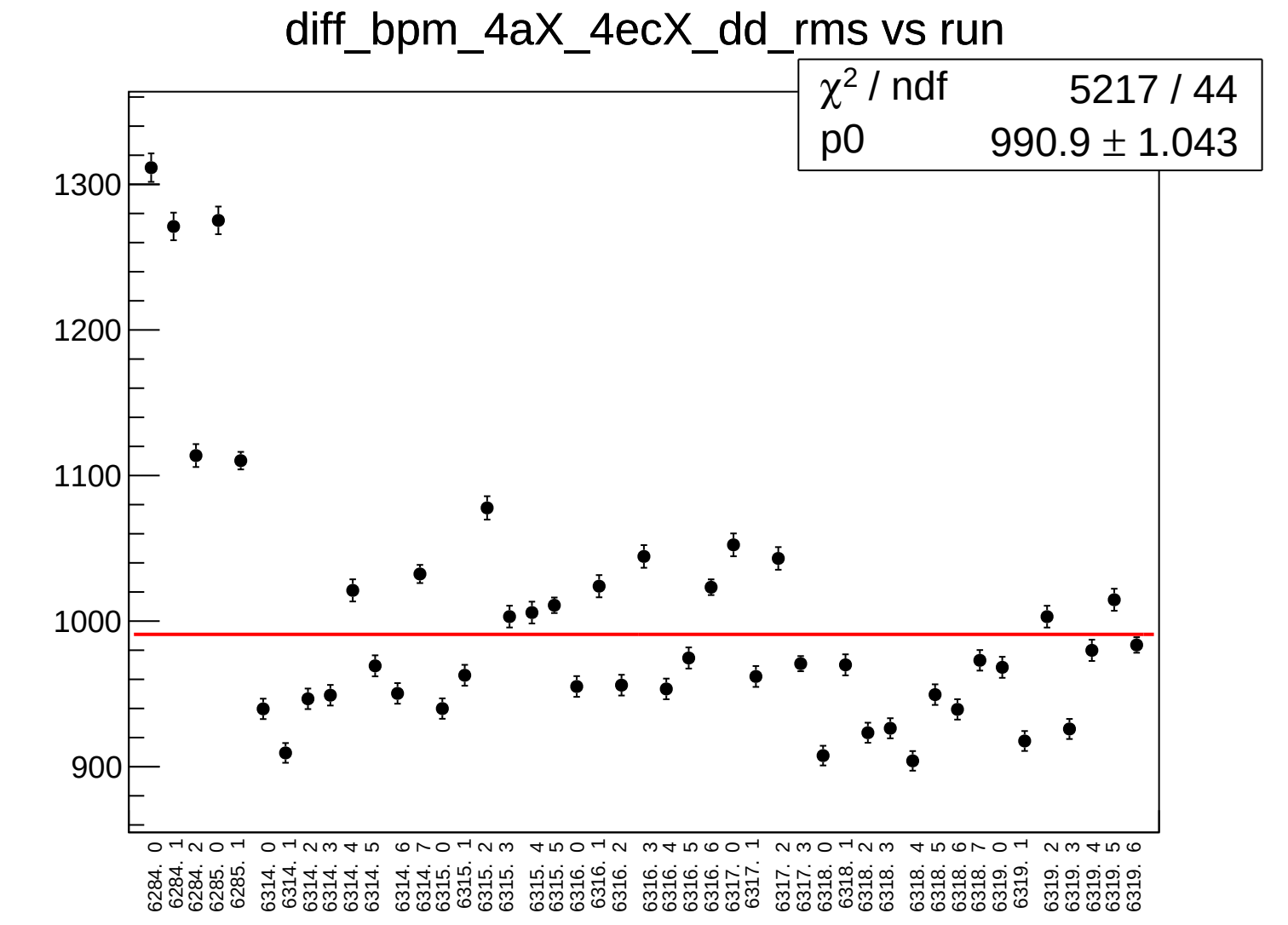

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 5067 / 44
p0 1086 ± 1.144
1400
1300
1200
1100
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

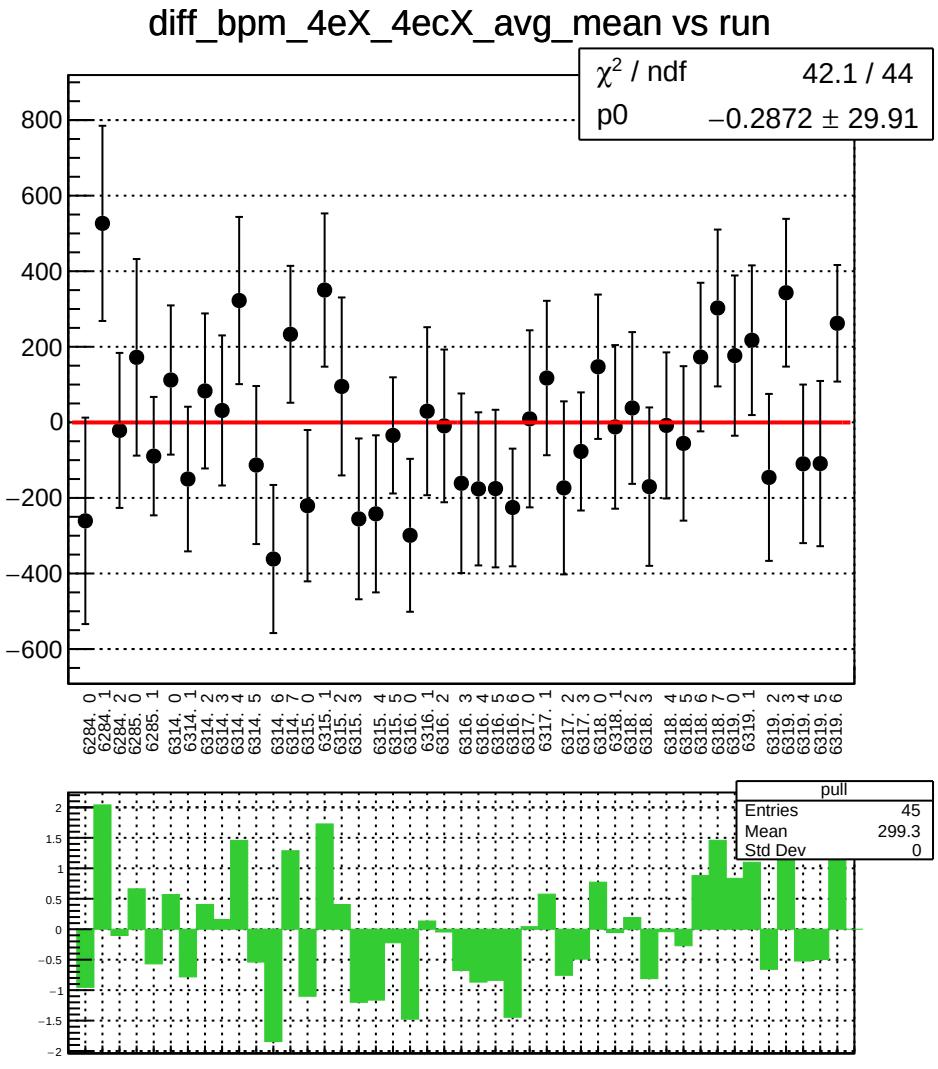

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 42.06 / 44
p0 0.9186 ± 31.39
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 298.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00539
Std Dev 0.9667
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

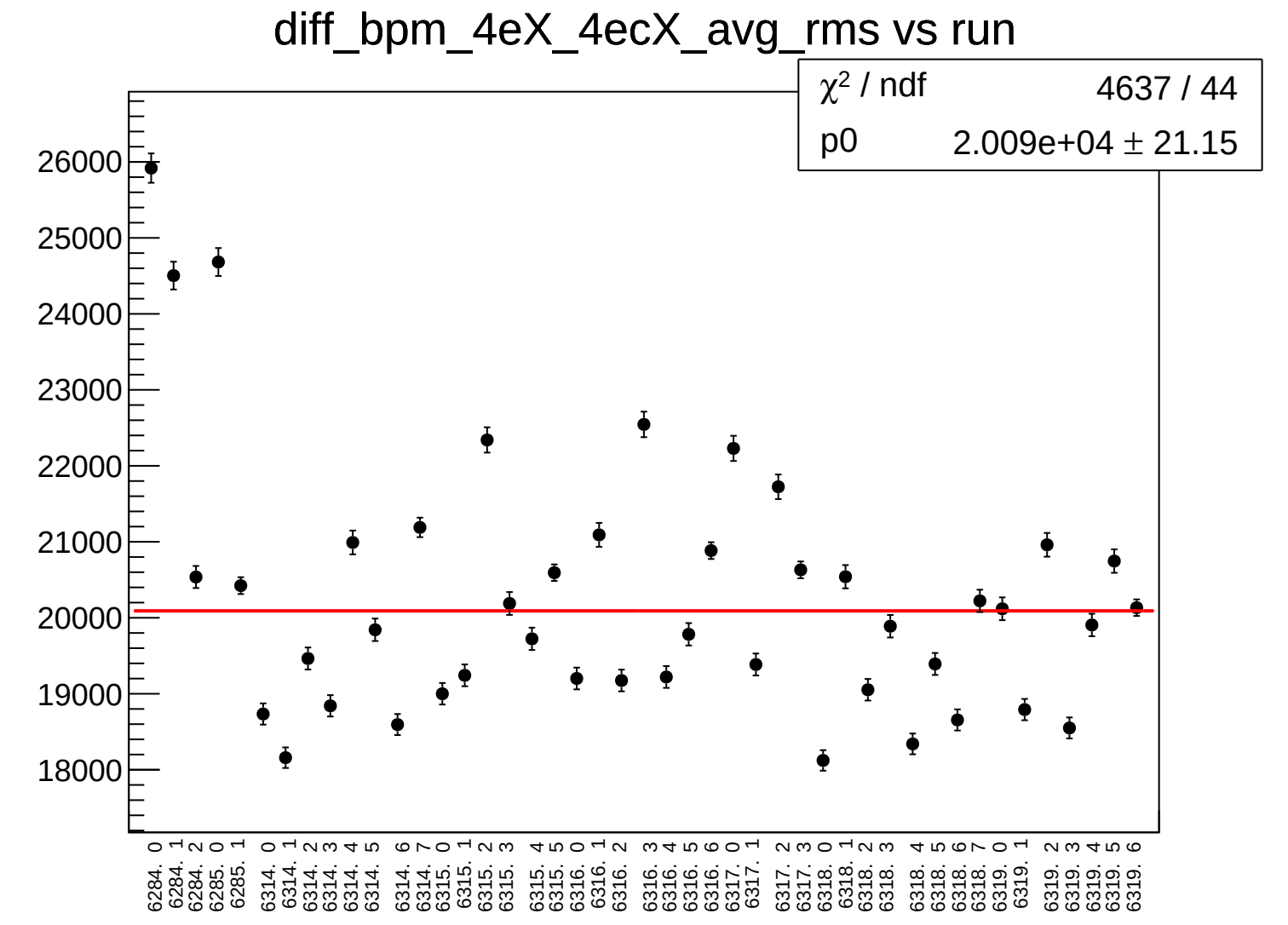

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4713 / 44
p0 2.109e+04 ± 22.2
28000
26000
24000
22000
20000
18000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

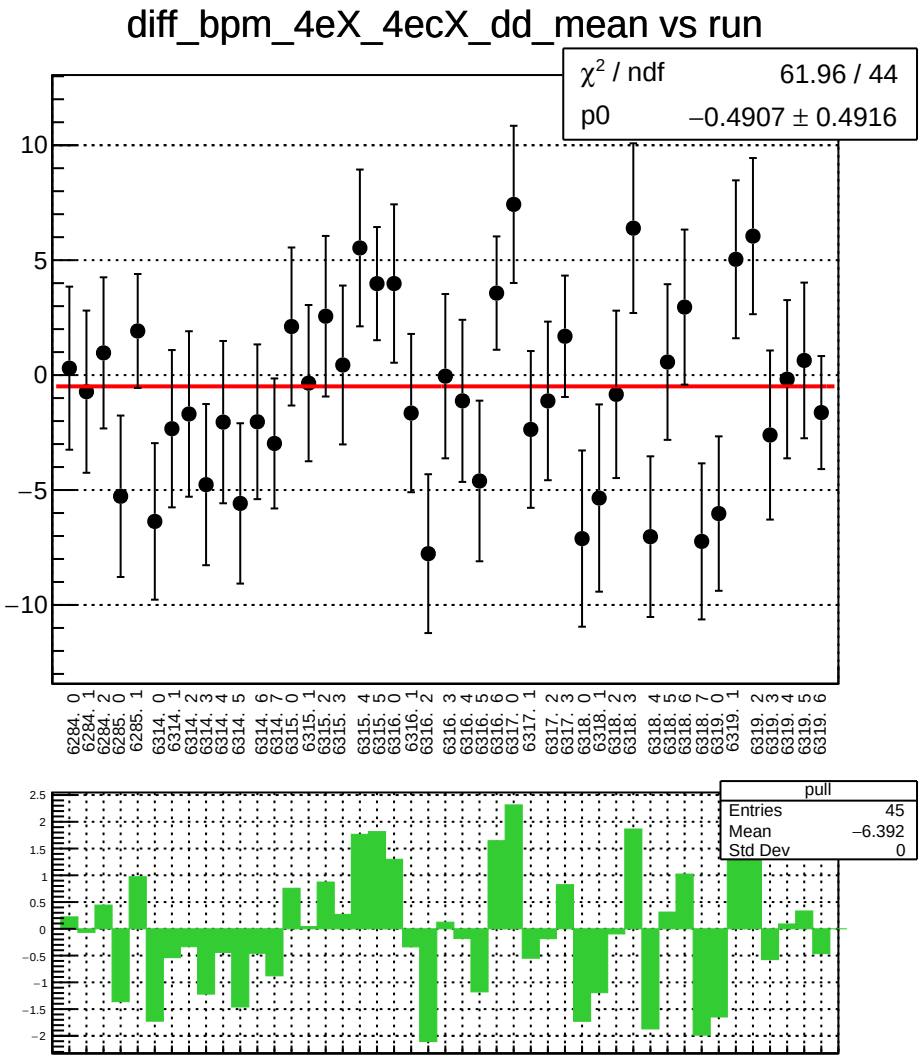

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 37.21 / 44
p0 0.5558 ± 1.476
pull
Entries 45
Mean 3765
Std Dev 0

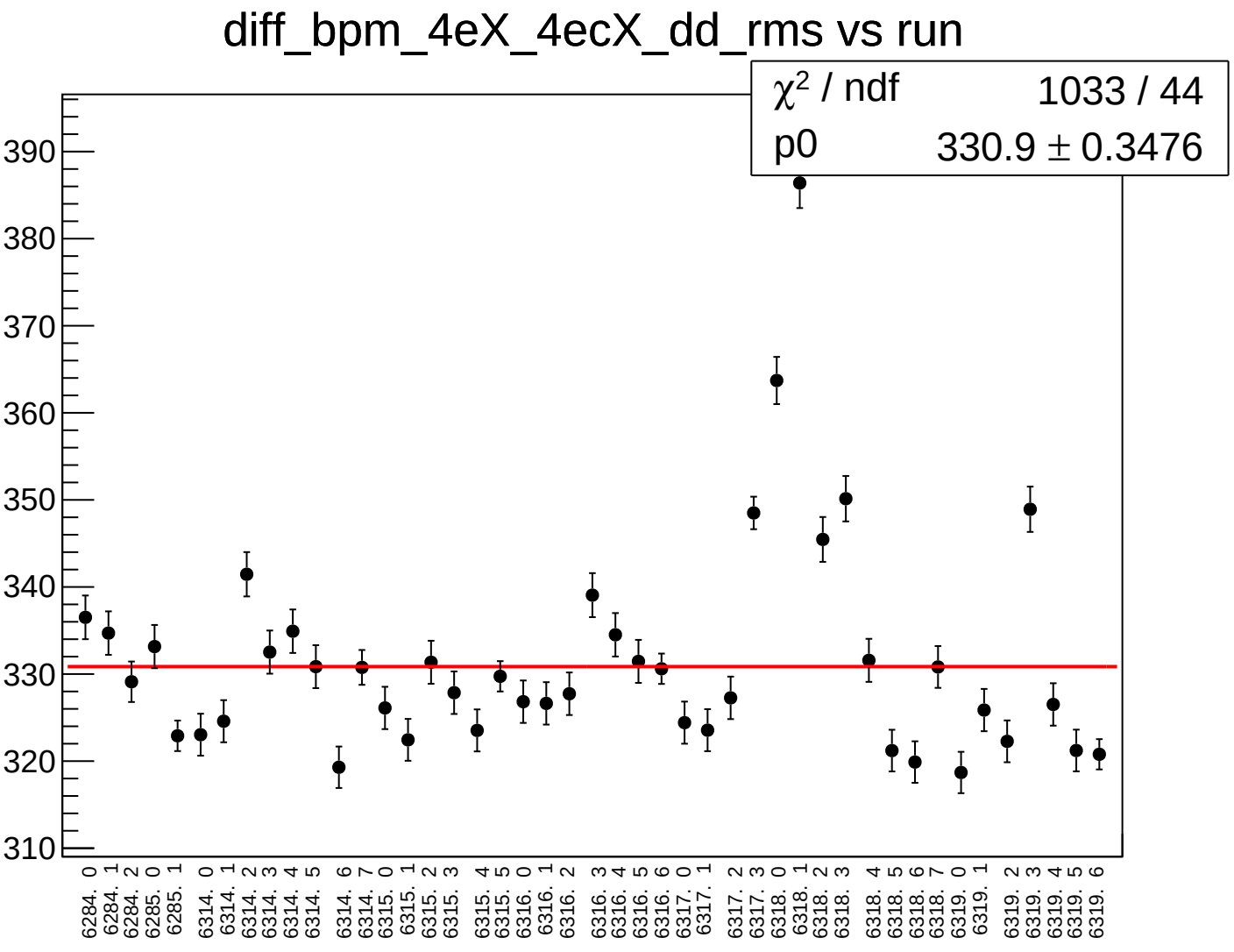

pull1D
Entries 45
Mean 0.0006187
Std Dev 0.9094

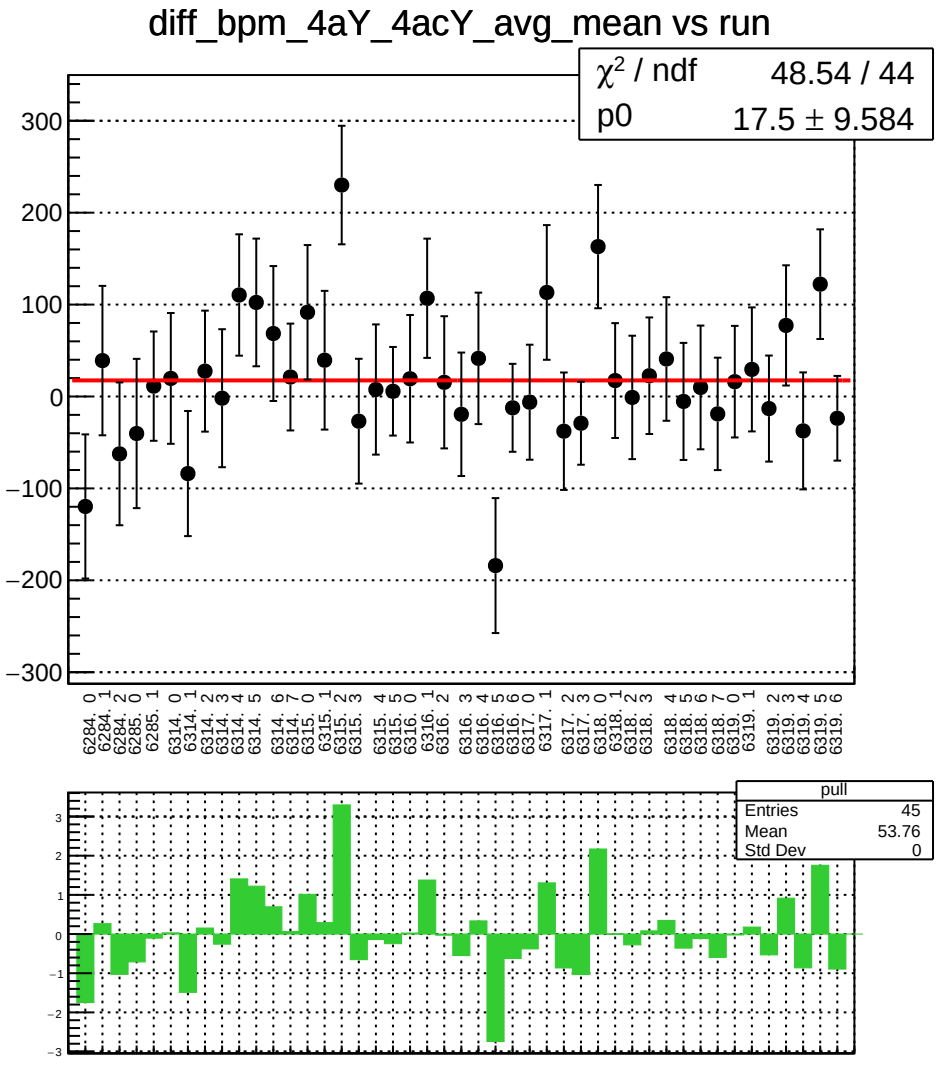

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5217 / 44
p0 990.9 ± 1.043
1300
1200
1100
1000
900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

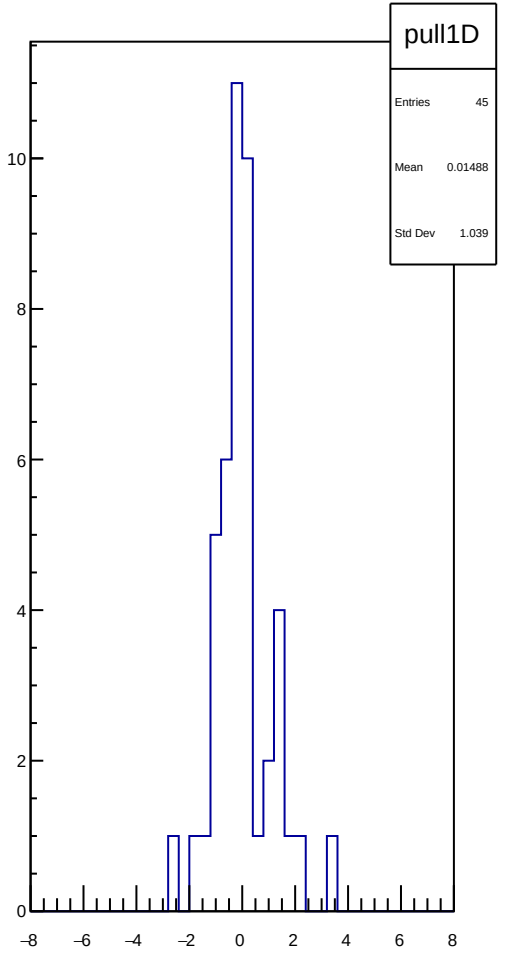

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 42.1 / 44
p0 −0.2872 ± 29.91
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 299.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005278
Std Dev 0.9672
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

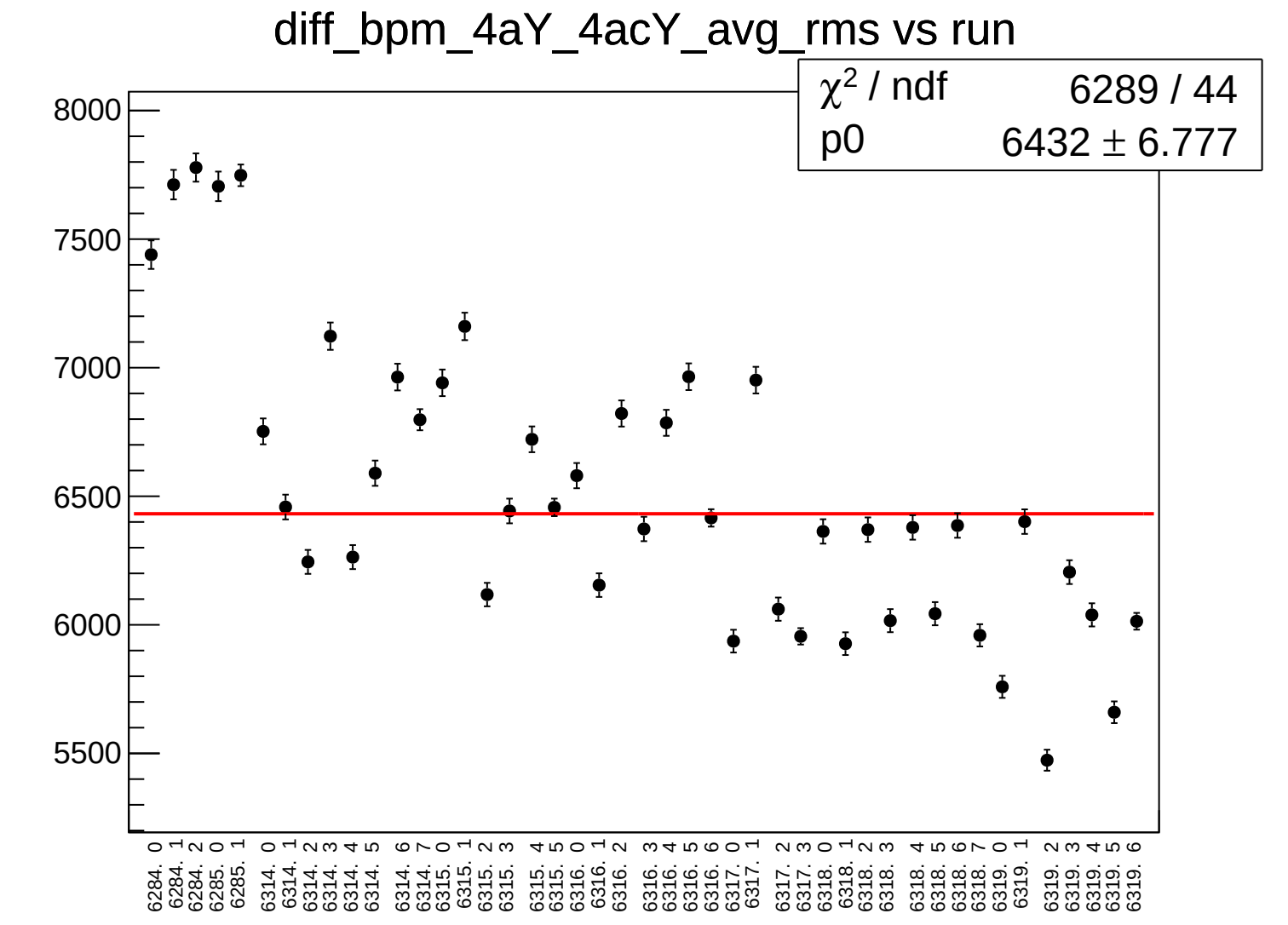

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4637 / 44
p0 2.009e+04 ± 21.15
26000
25000
24000
23000
22000
21000
20000
19000
18000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

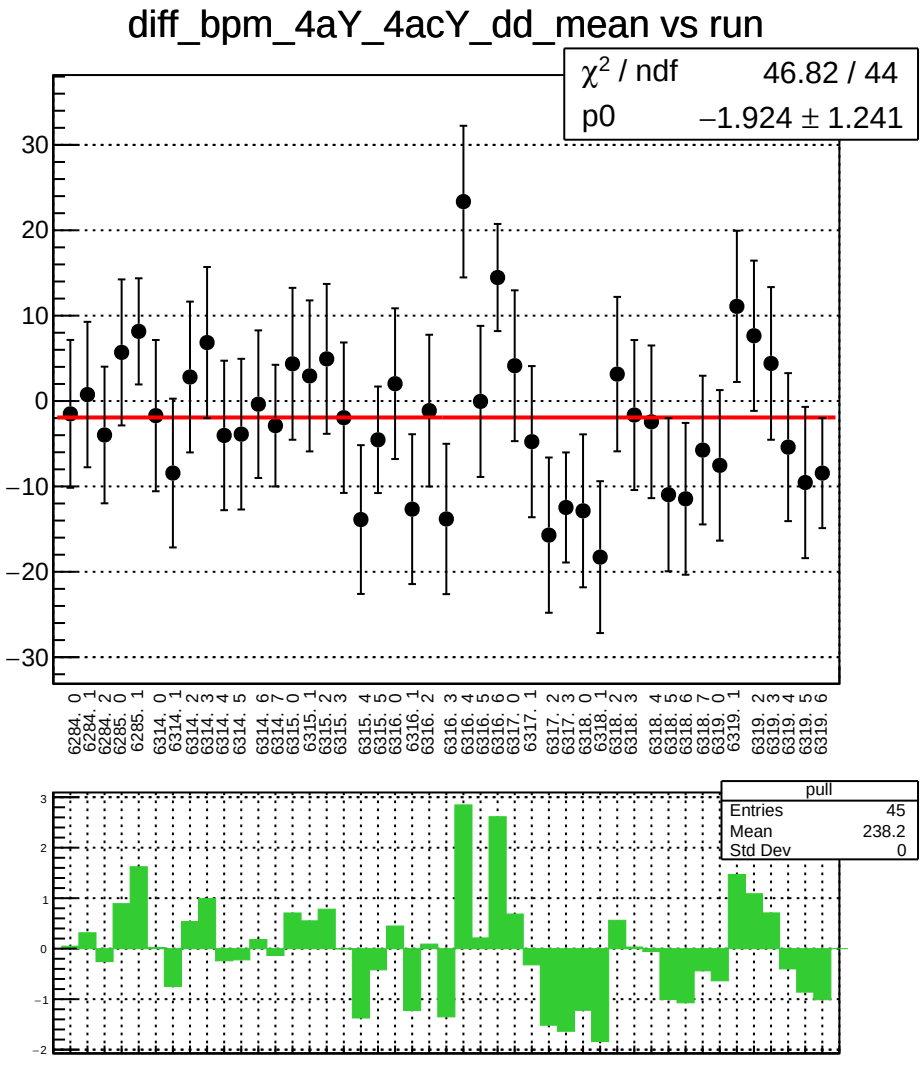

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 61.96 / 44
p0 −0.4907 ± 0.4916
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.392
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04539
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

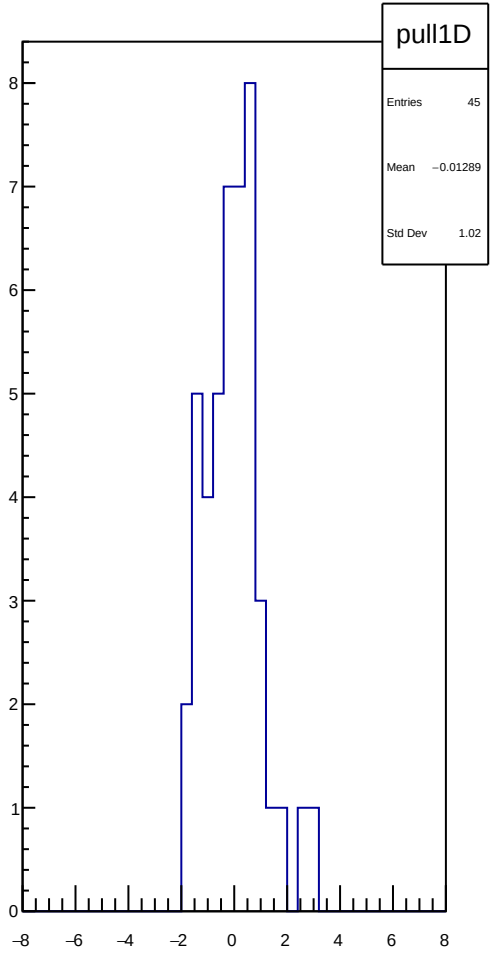

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1033 / 44
p0 330.9 ± 0.3476
390
380
370
360
350
340
330
320
310
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

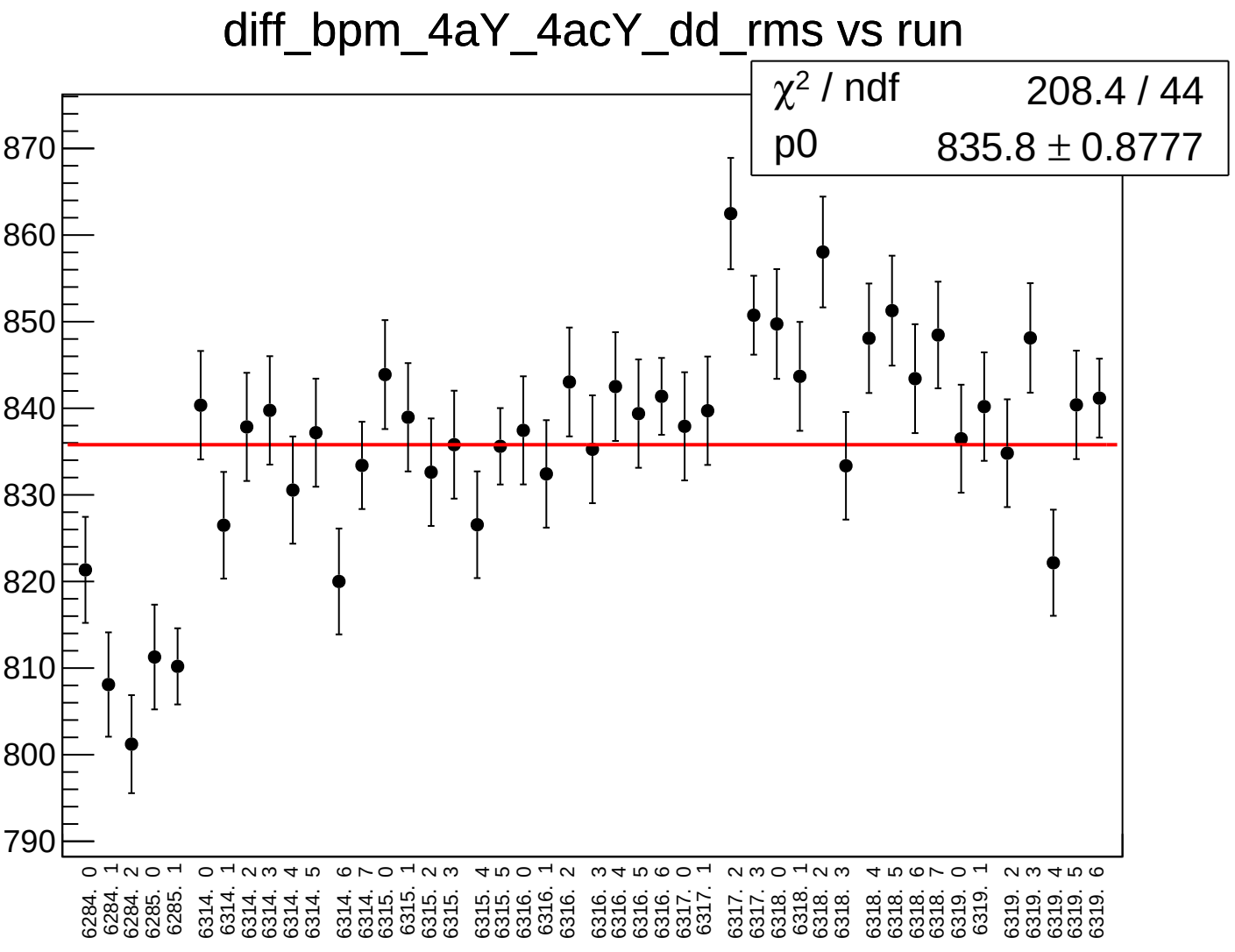

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 48.54 / 44
p0 17.5 ± 9.584
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 53.76
Std Dev 0
3
2
1
0
−1
−2
−3

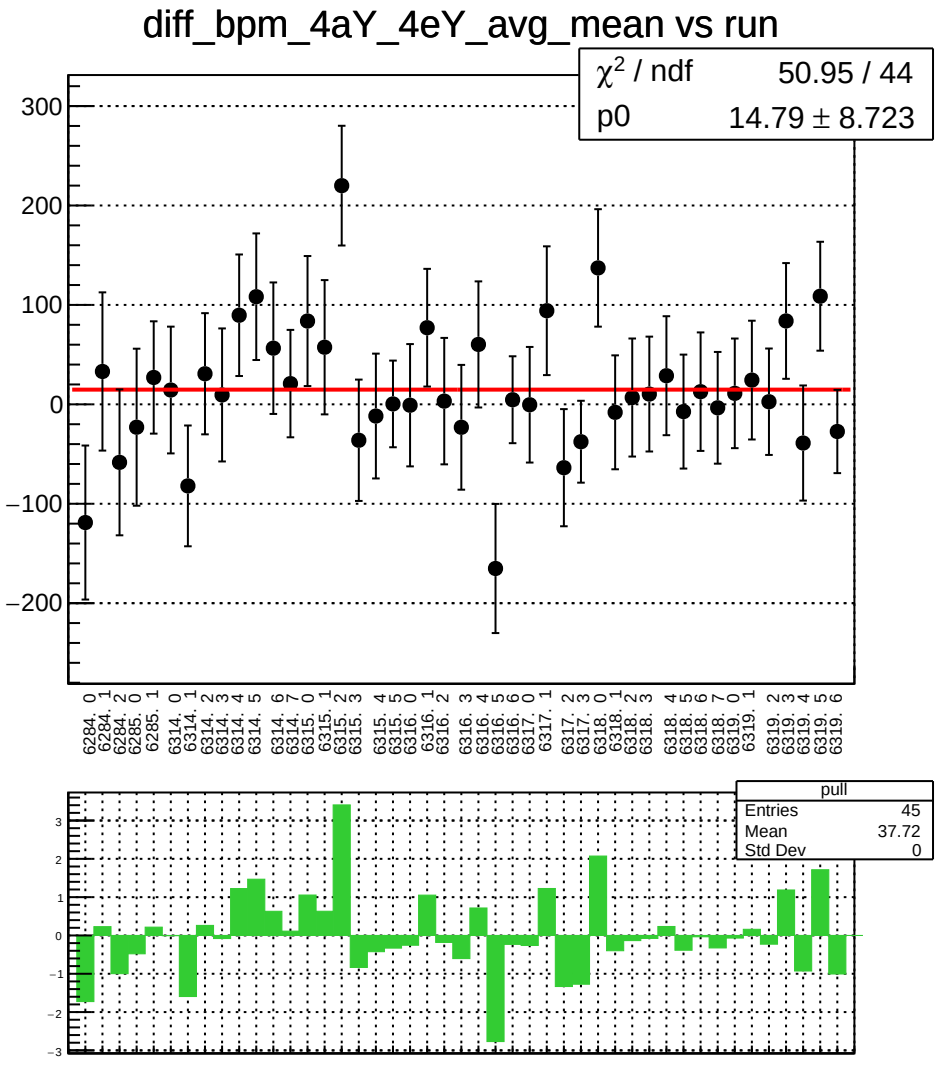

pull1D
Entries 45
Mean 0.01488
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

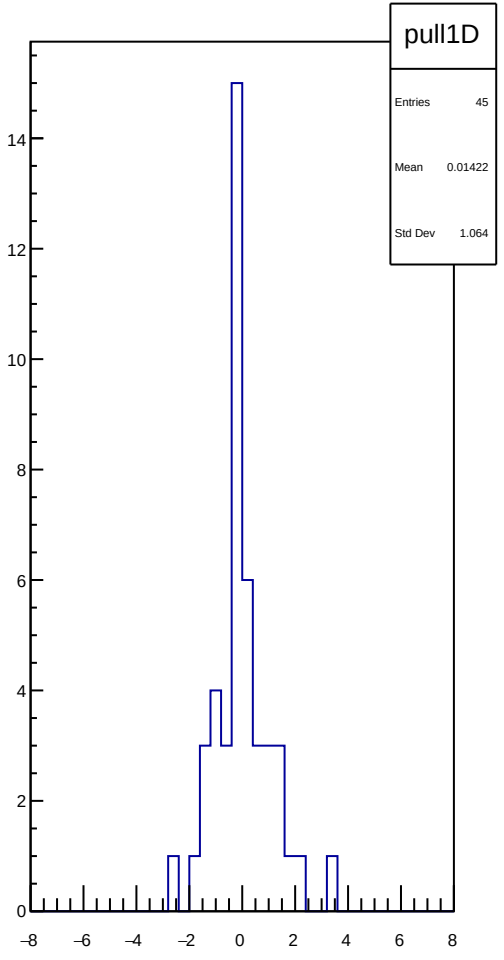

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 6289 / 44
p0 6432 ± 6.777
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

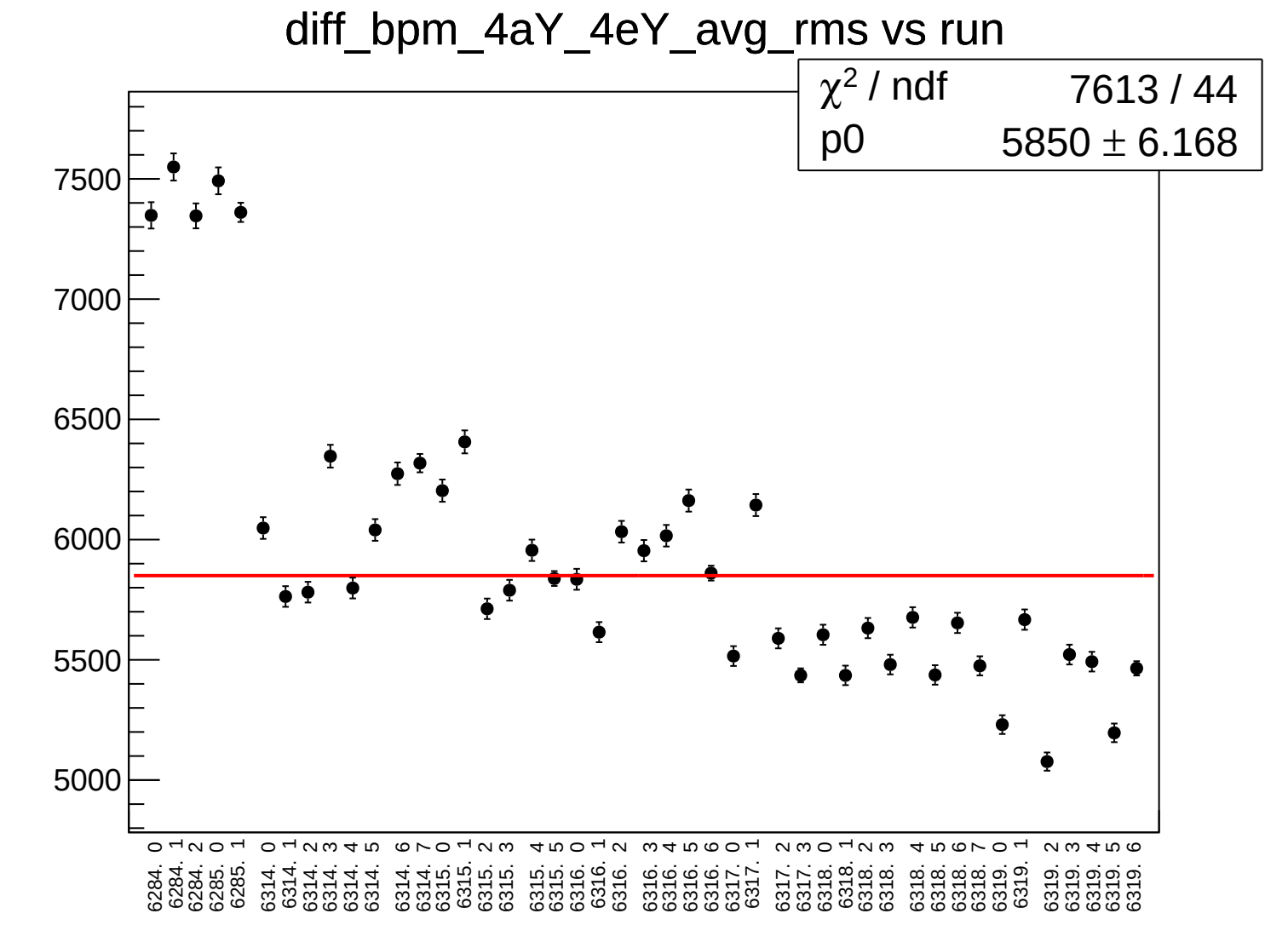

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 46.82 / 44
p0 −1.924 ± 1.241
pull
Entries 45
Mean 238.2
Std Dev 0

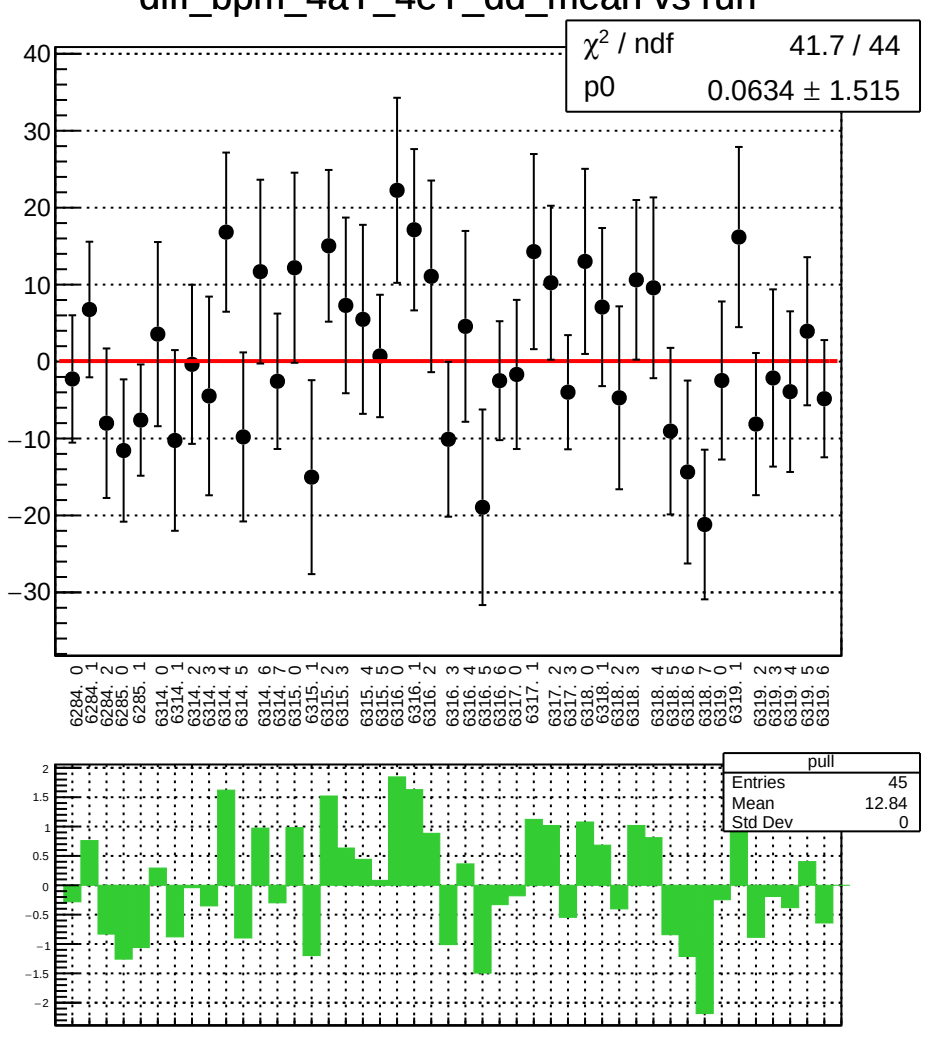

pull1D
Entries 45
Mean −0.01289
Std Dev 1.02

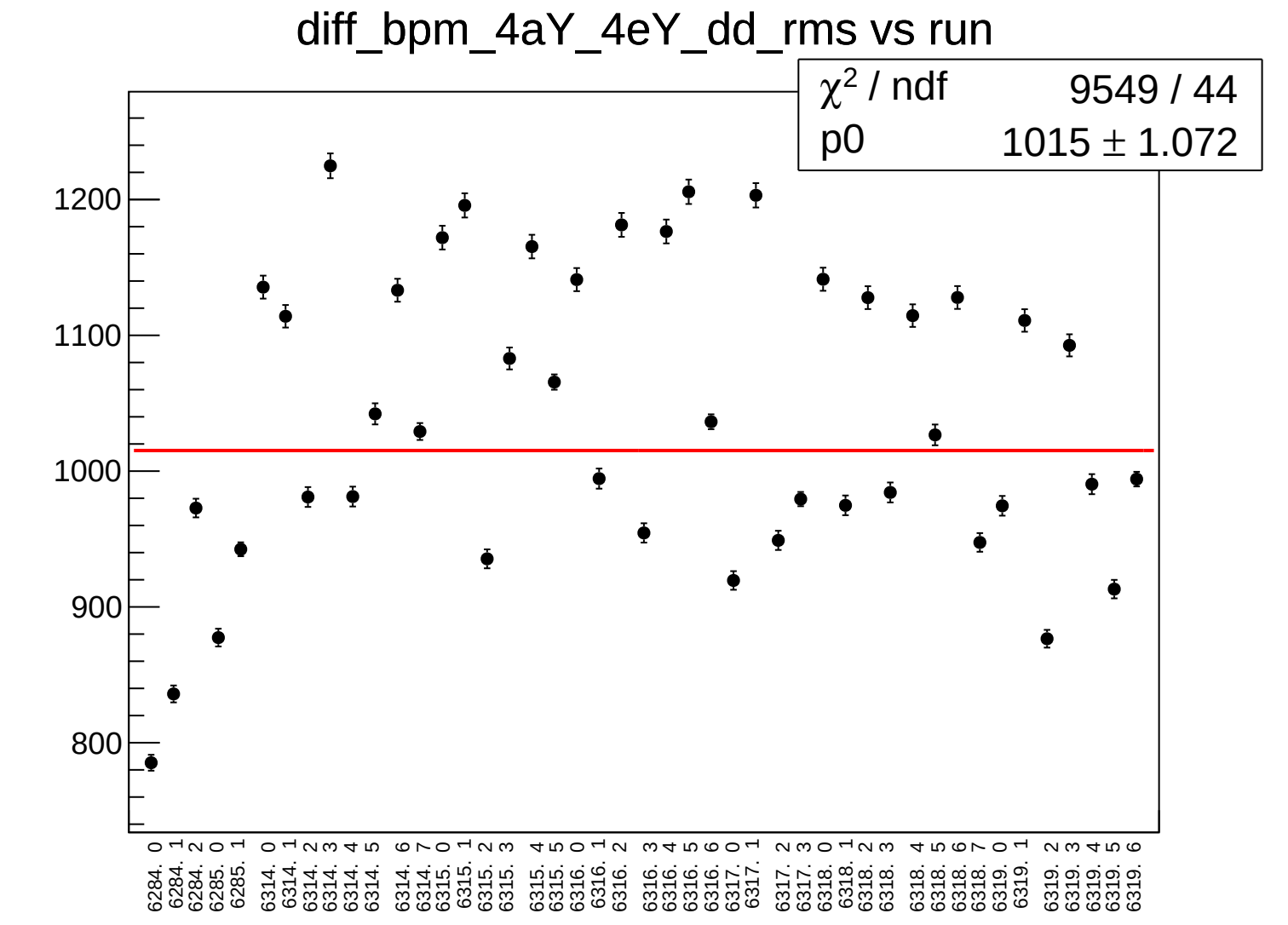

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 208.4 / 44
p0 835.8 ± 0.8777
870
860
850
840
830
820
810
800
790
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

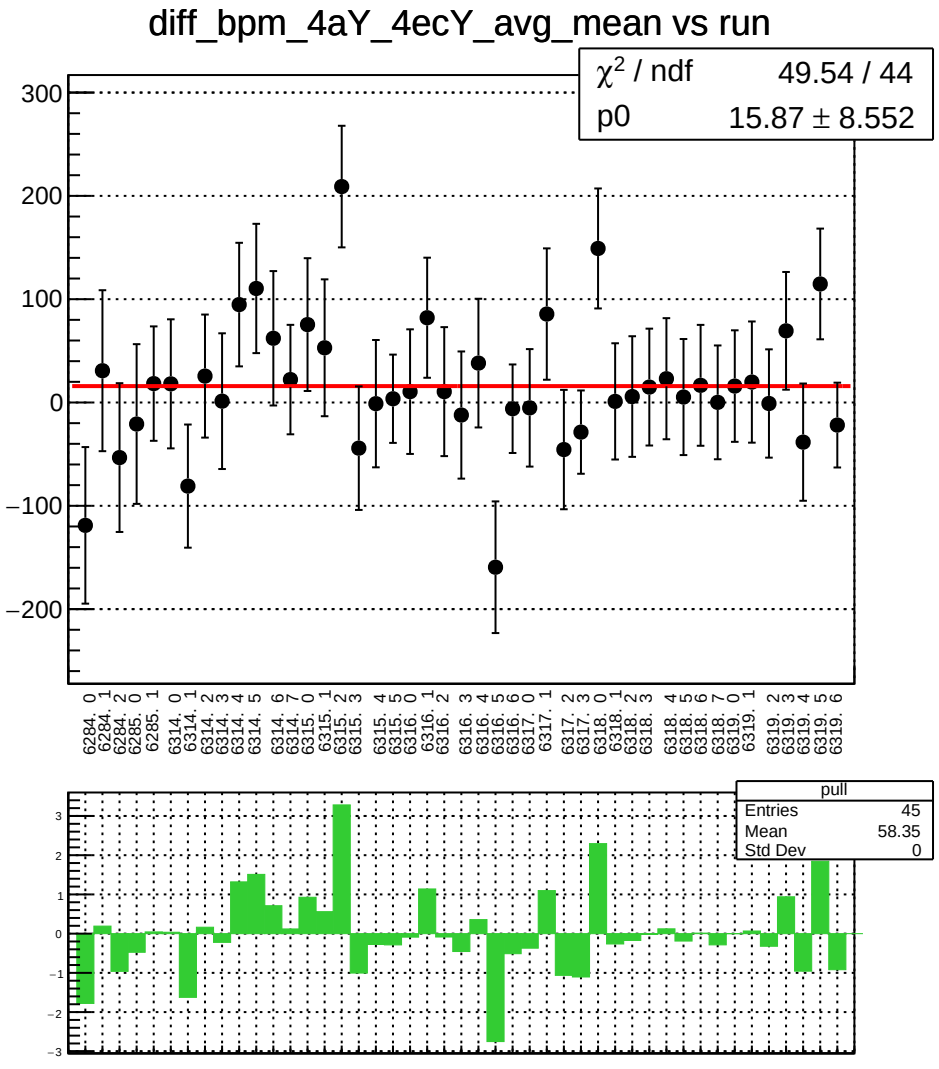

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 50.95 / 44
p0 14.79 ± 8.723
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.72
Std Dev 0
3
2
1
0
−1
−2
−3

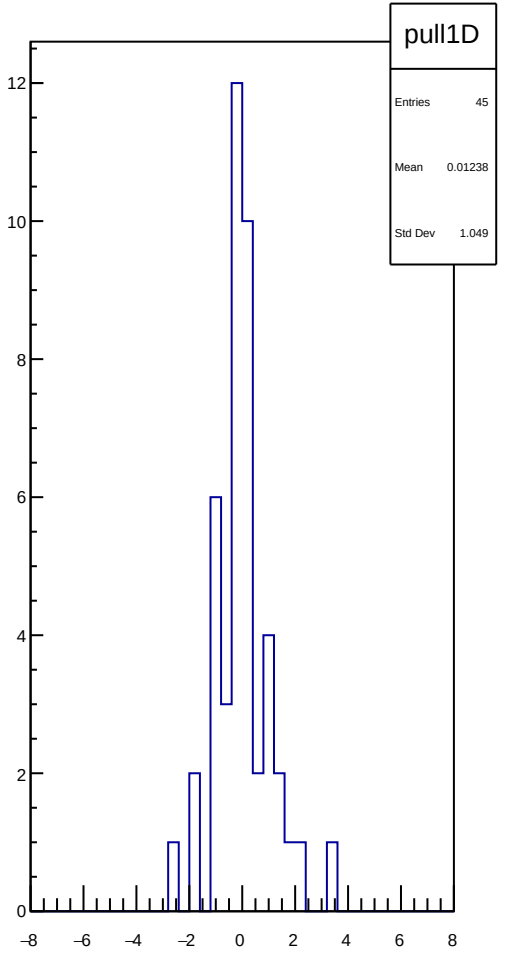

pull1D
Entries 45
Mean 0.01422
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

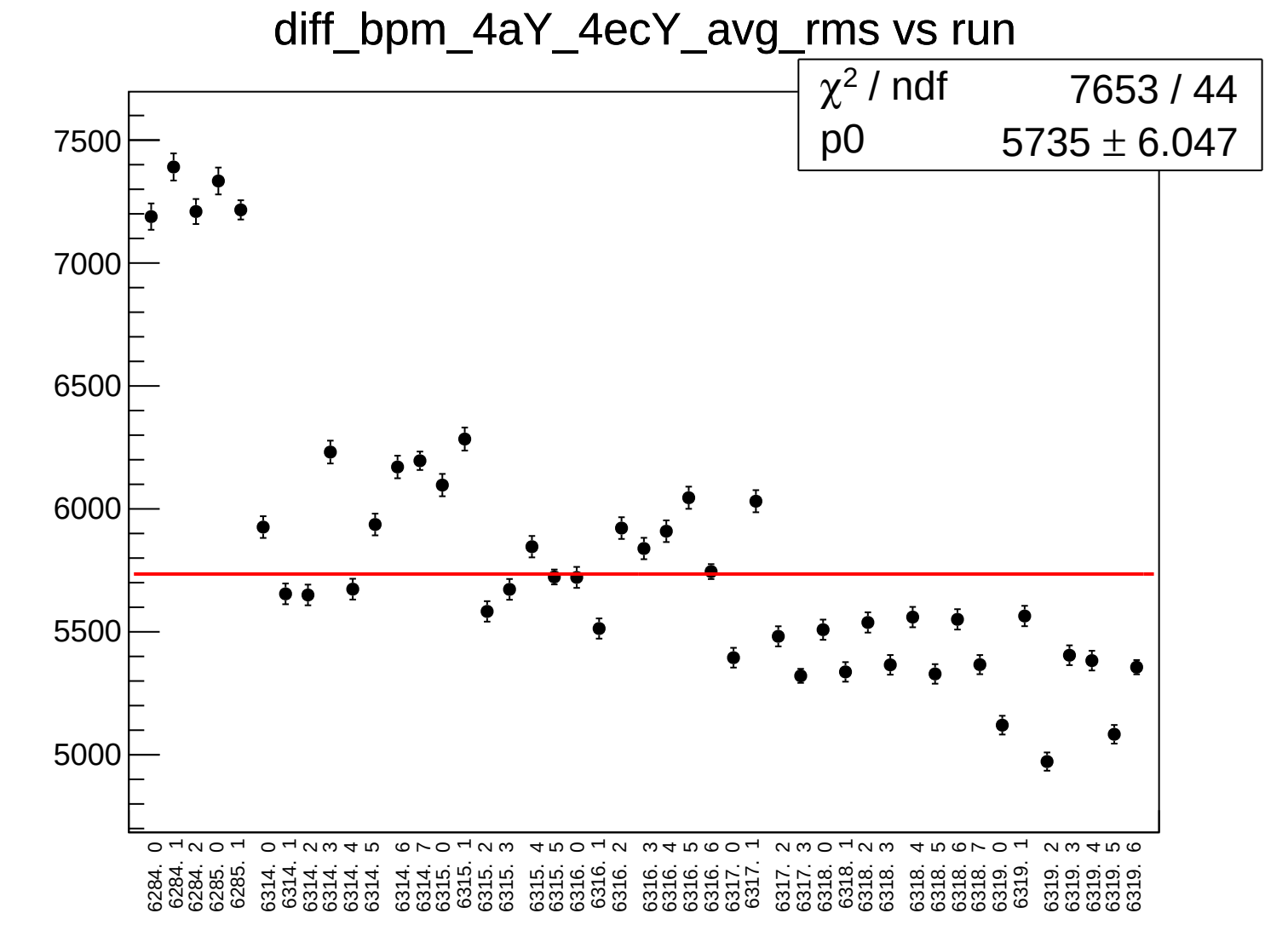

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 7613 / 44
p0 5850 ± 6.168
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

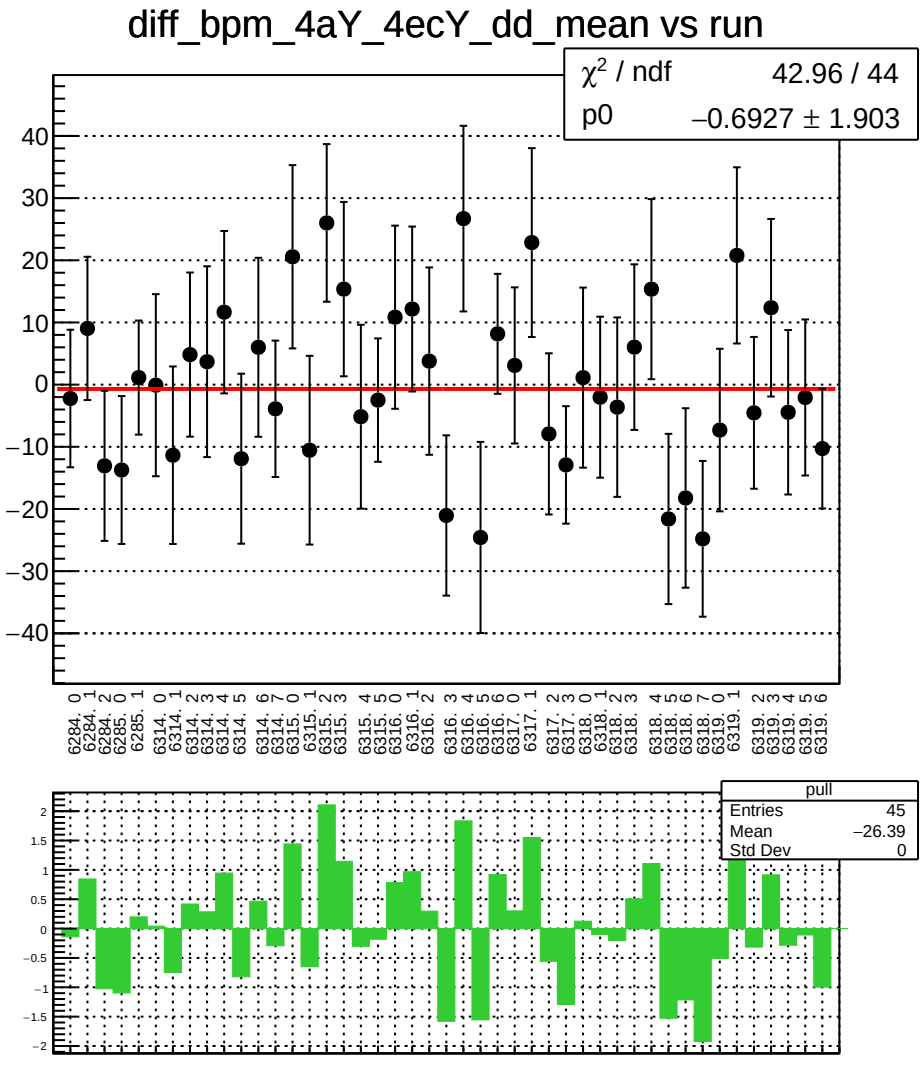

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 41.7 / 44
p0 0.0634 ± 1.515
pull
Entries 45
Mean 12.84
Std Dev 0
pull1D
Entries 45
Mean 0.04225
Std Dev 0.9617

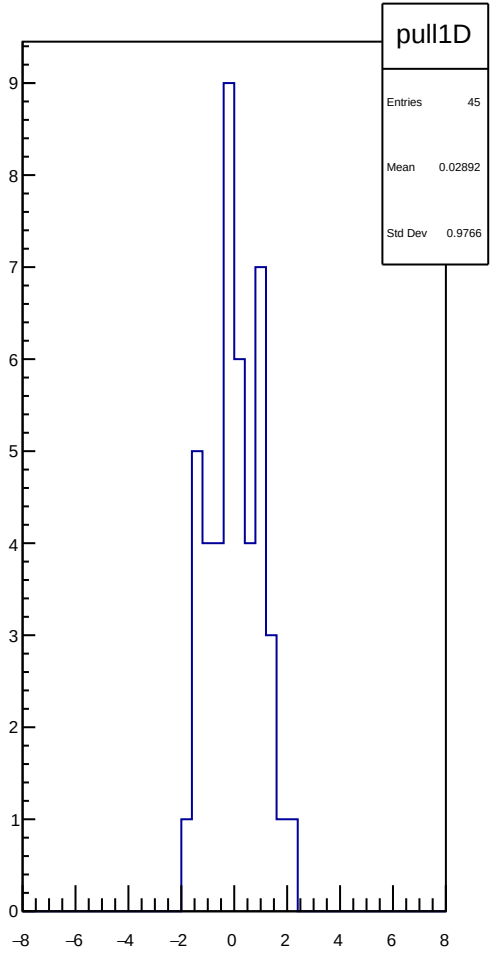

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 9549 / 44
p0 1015 ± 1.072
1200
1100
1000
900
800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

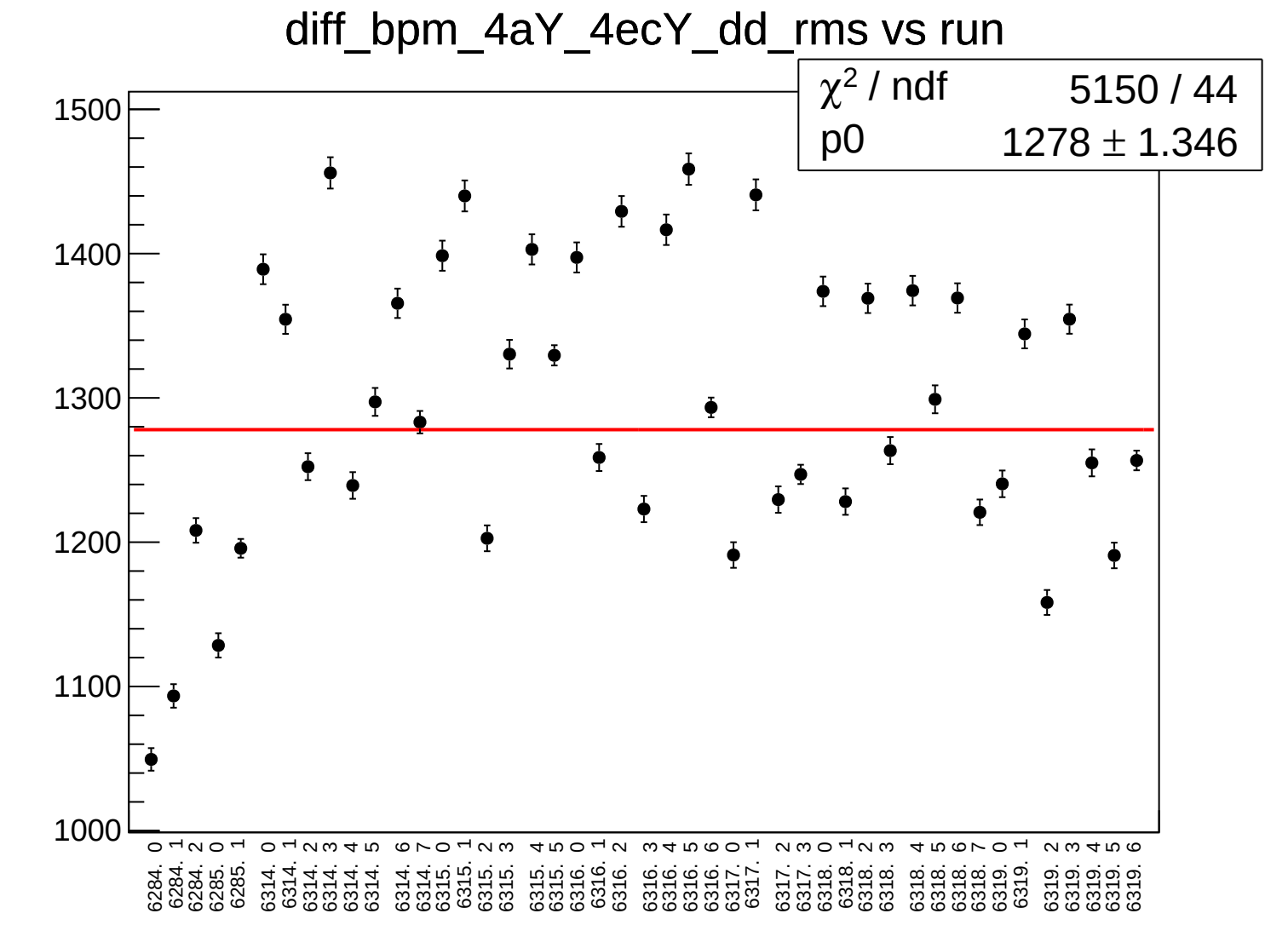

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 49.54 / 44
p0 15.87 ± 8.552
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 58.35
Std Dev 0
3
2
1
0
−1
−2
−3

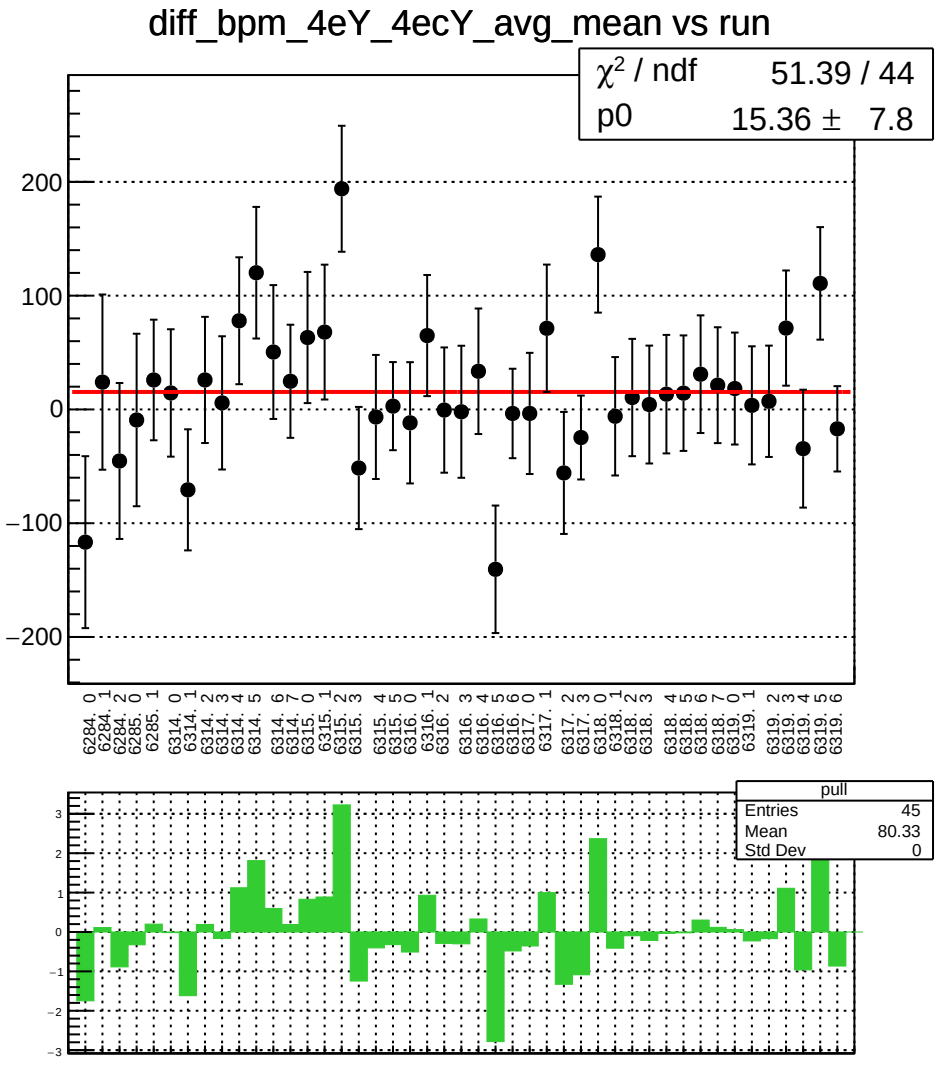

pull1D
Entries 45
Mean 0.01238
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

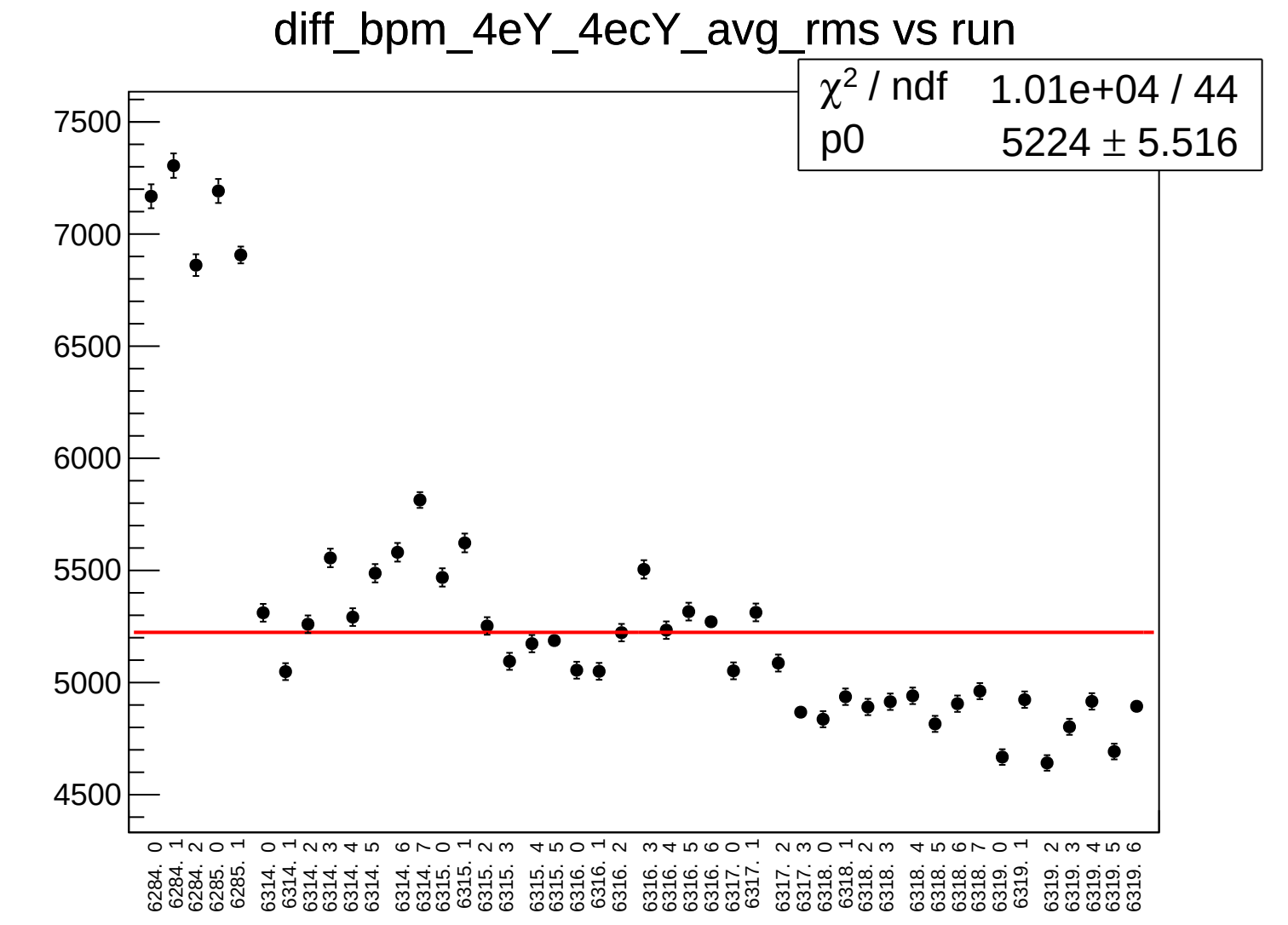

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 7653 / 44
p0 5735 ± 6.047
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

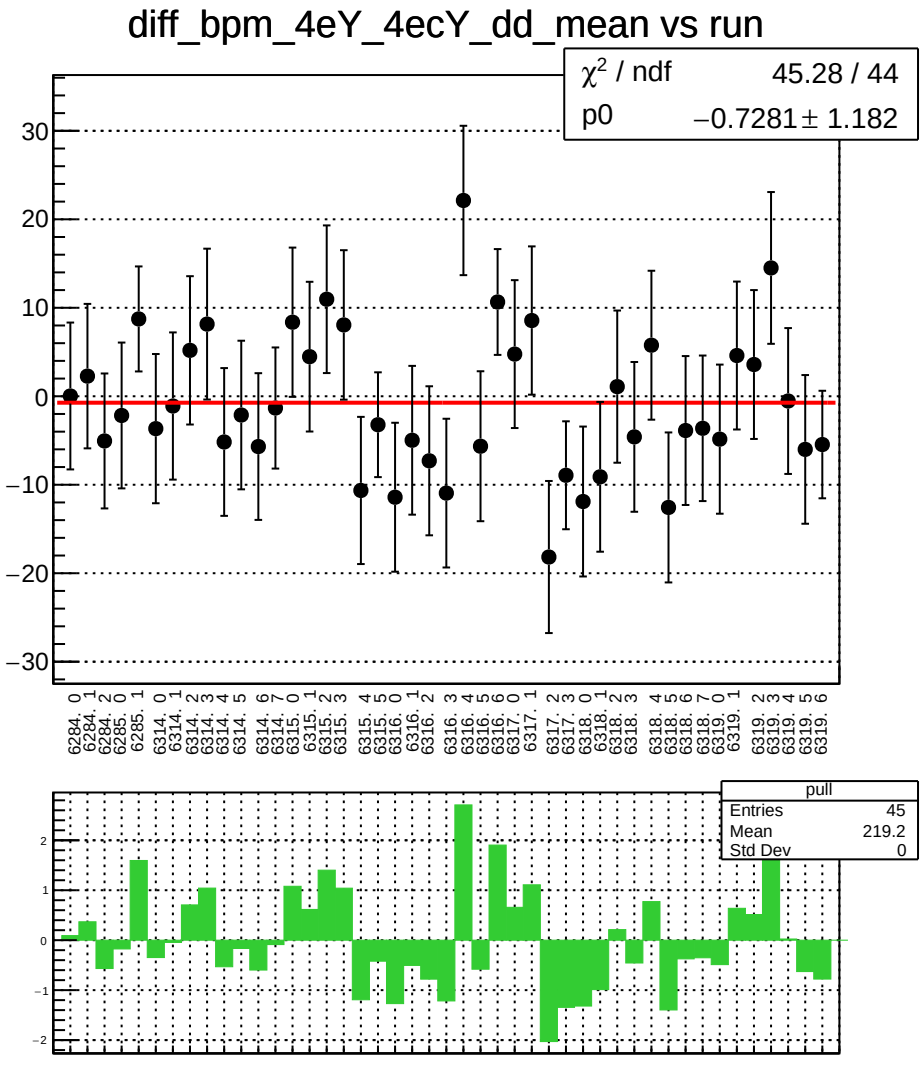

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 42.96 / 44
p0 −0.6927 ± 1.903
pull
Entries 45
Mean −26.39
Std Dev 0

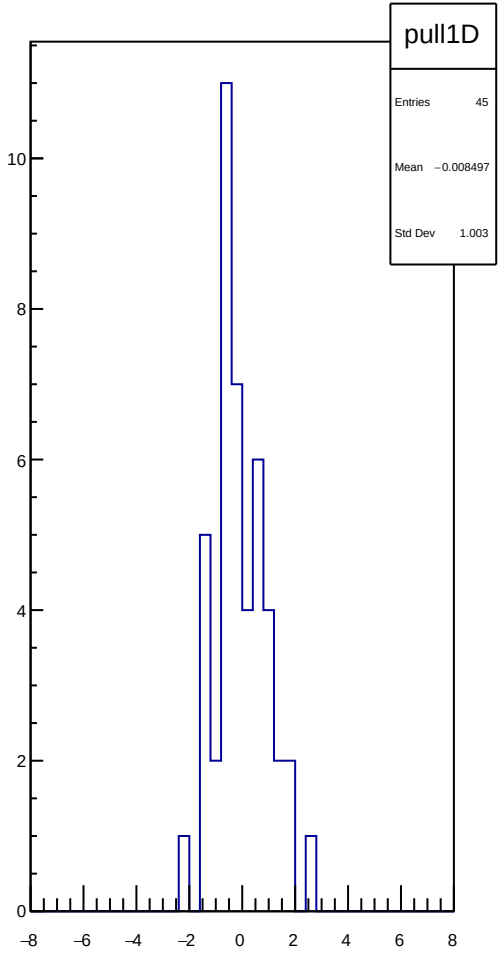

pull1D
Entries 45
Mean 0.02892
Std Dev 0.9766

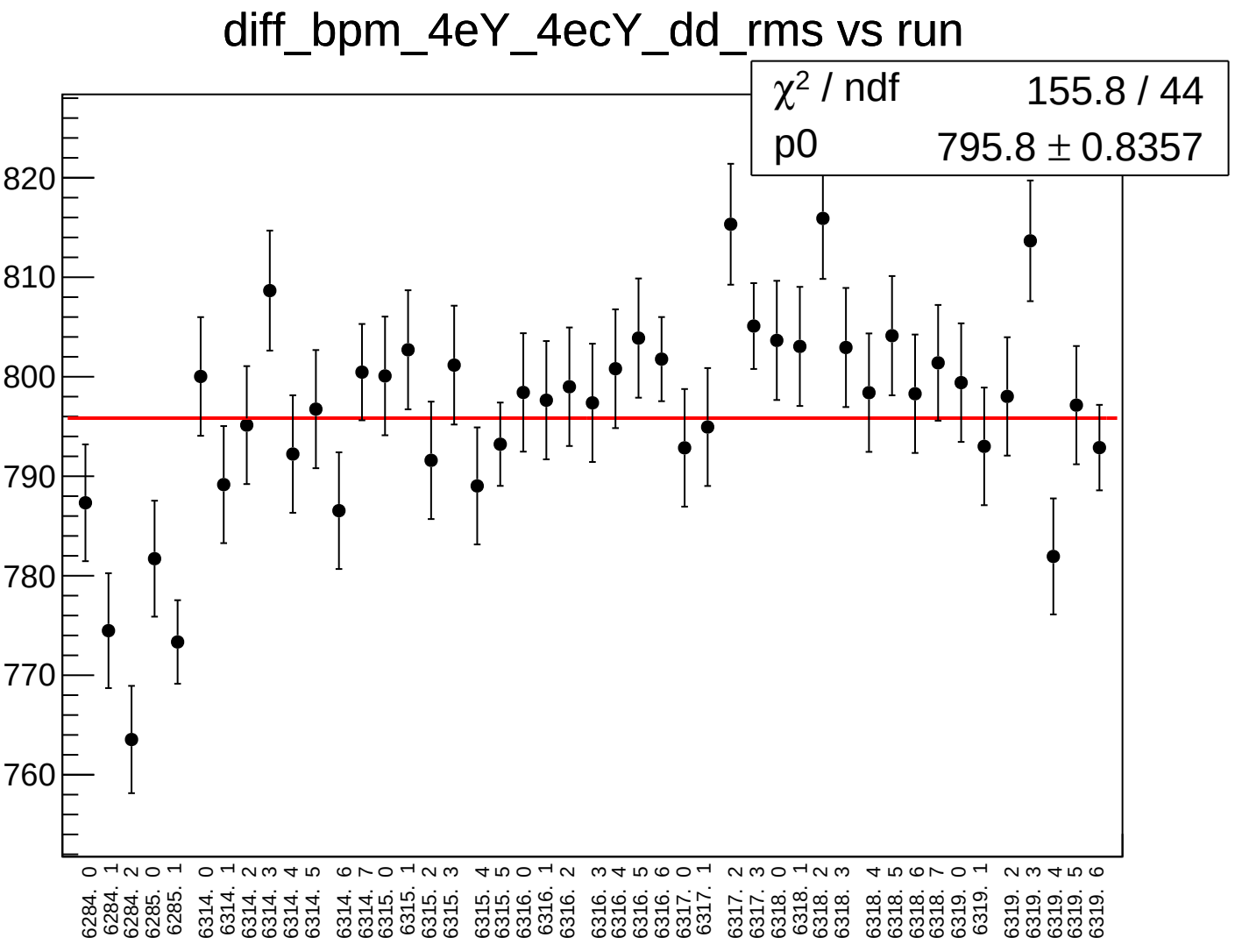

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 5150 / 44
p0 1278 ± 1.346
1500
1400
1300
1200
1100
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

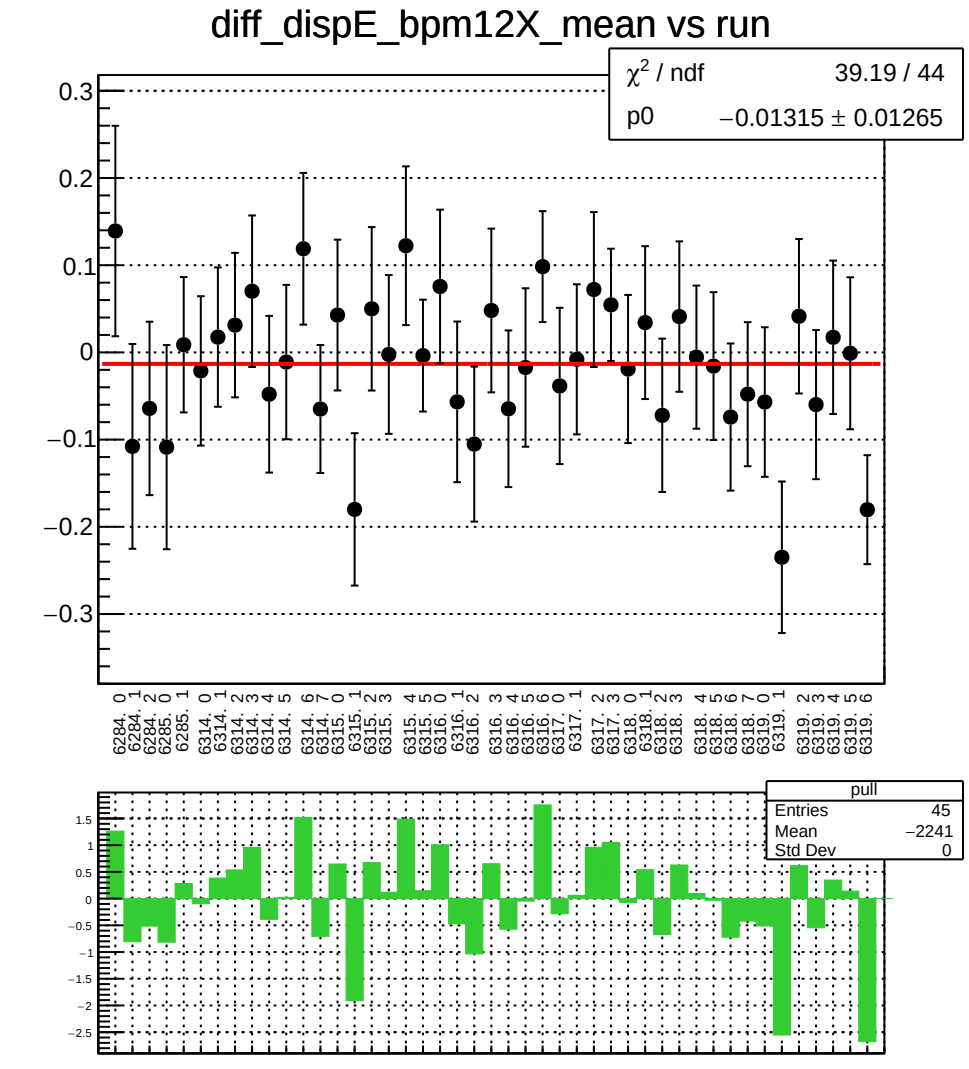

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 51.39 / 44
p0 15.36 ± 7.8
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.33
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01028
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

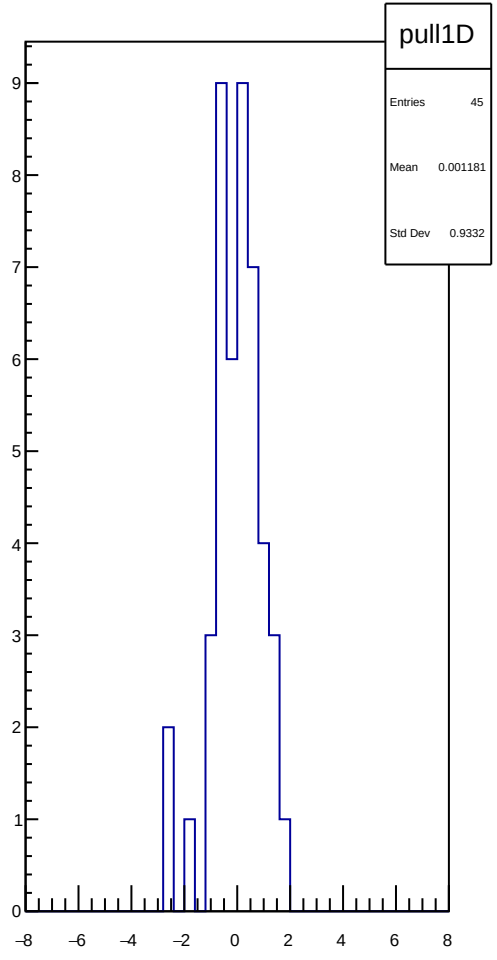

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.01e+04 / 44
p0 5224 ± 5.516
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

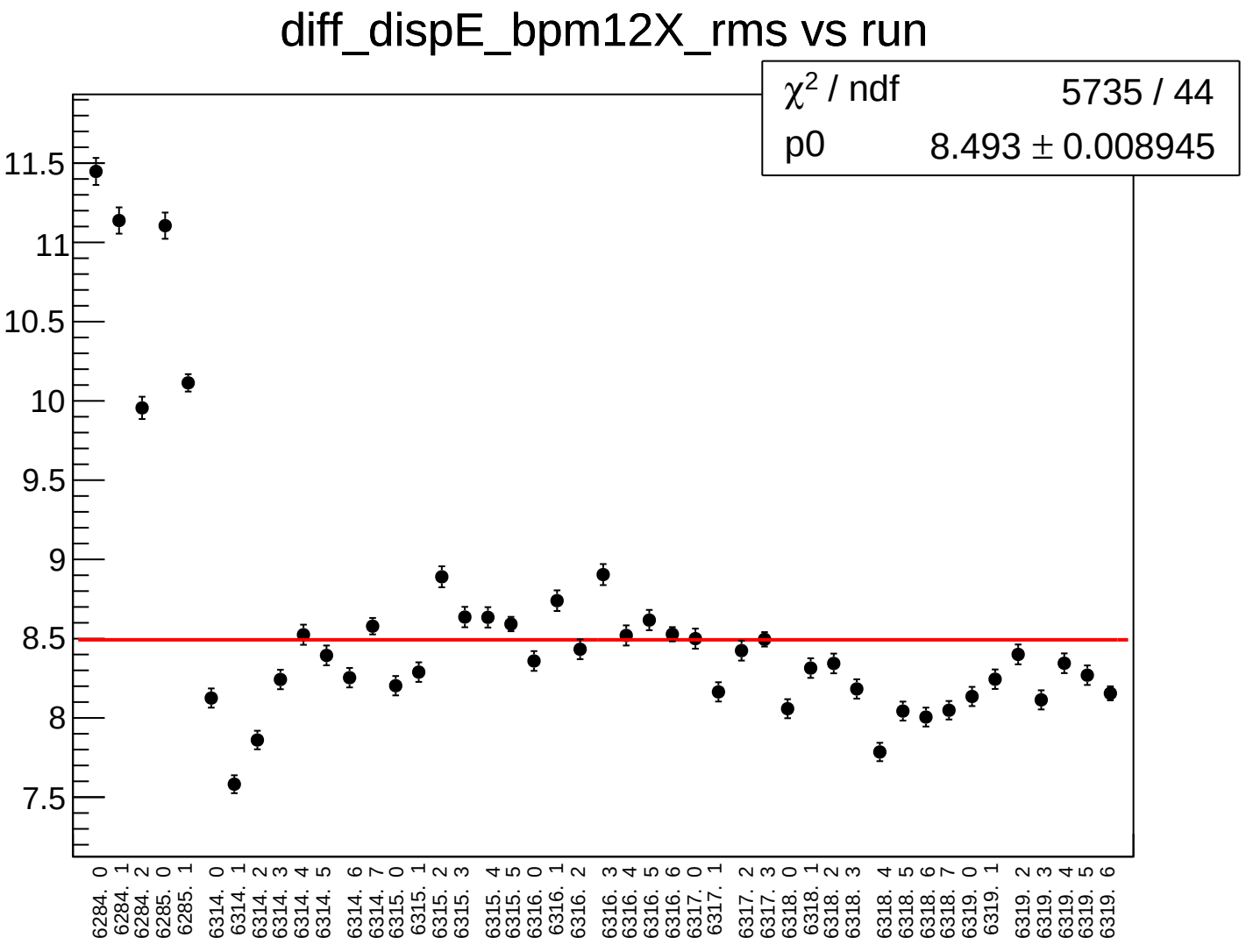

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 45.28 / 44
p0 −0.7281 ± 1.182
pull
Entries 45
Mean 219.2
Std Dev 0

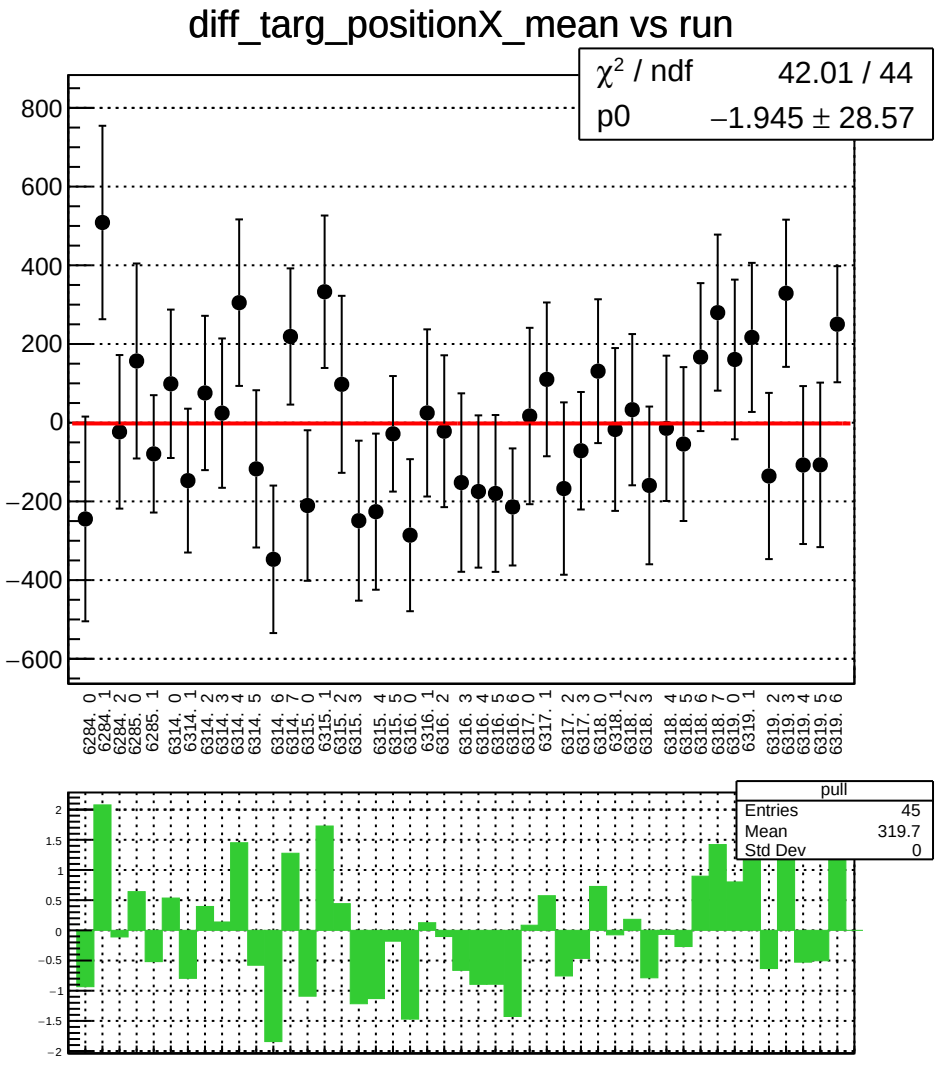

pull1D
Entries 45
Mean −0.008497
Std Dev 1.003

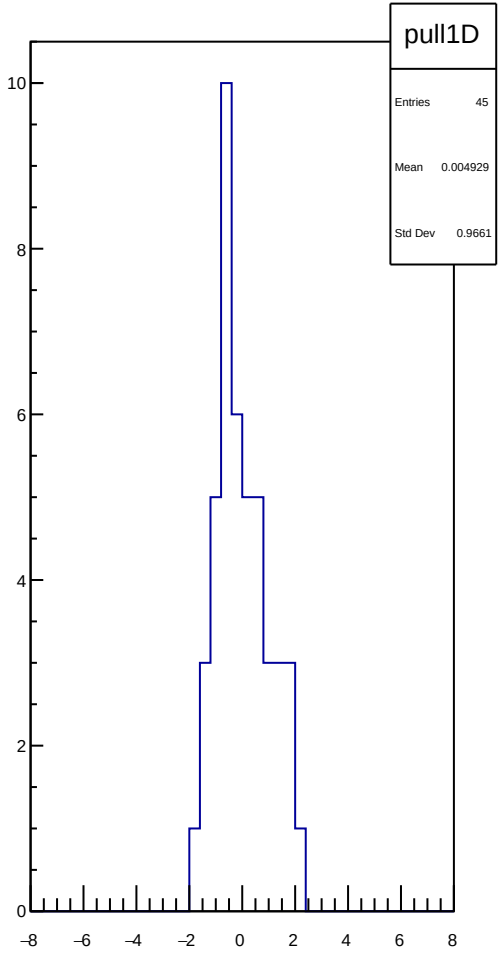

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 155.8 / 44
p0 795.8 ± 0.8357
820
810
800
790
780
770
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

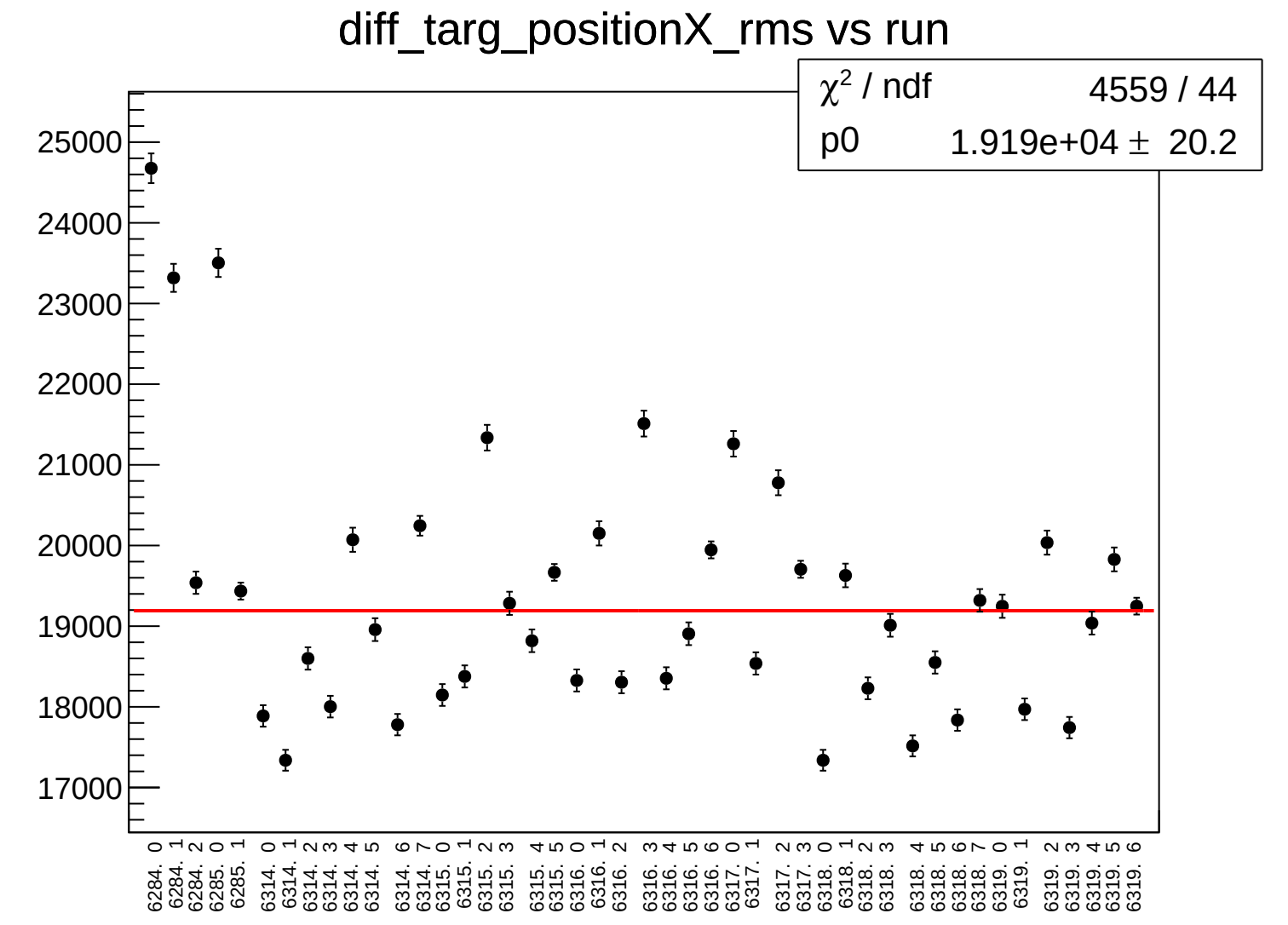

diff_dispE_bpm12X_mean vs run
χ² / ndf 39.19 / 44
p0 −0.01315 ± 0.01265
pull
Entries 45
Mean −2241
Std Dev 0

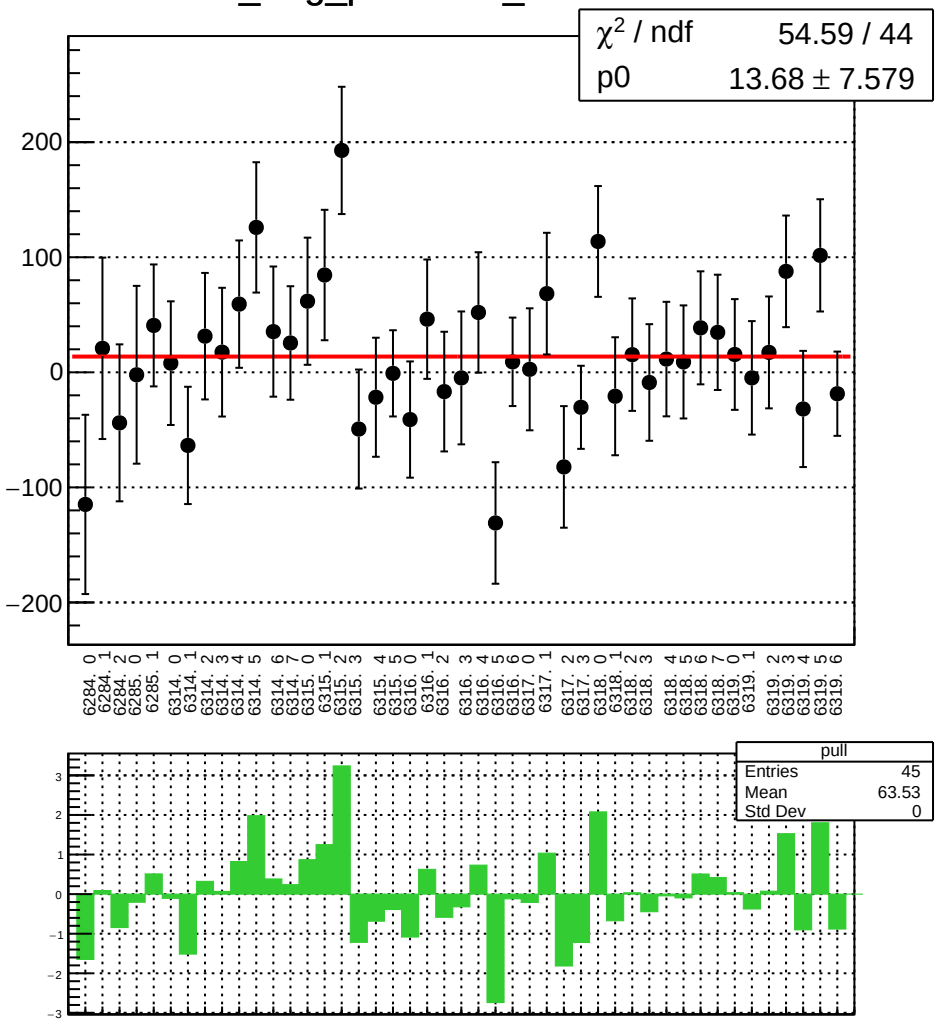

pull1D
Entries 45
Mean 0.001181
Std Dev 0.9332

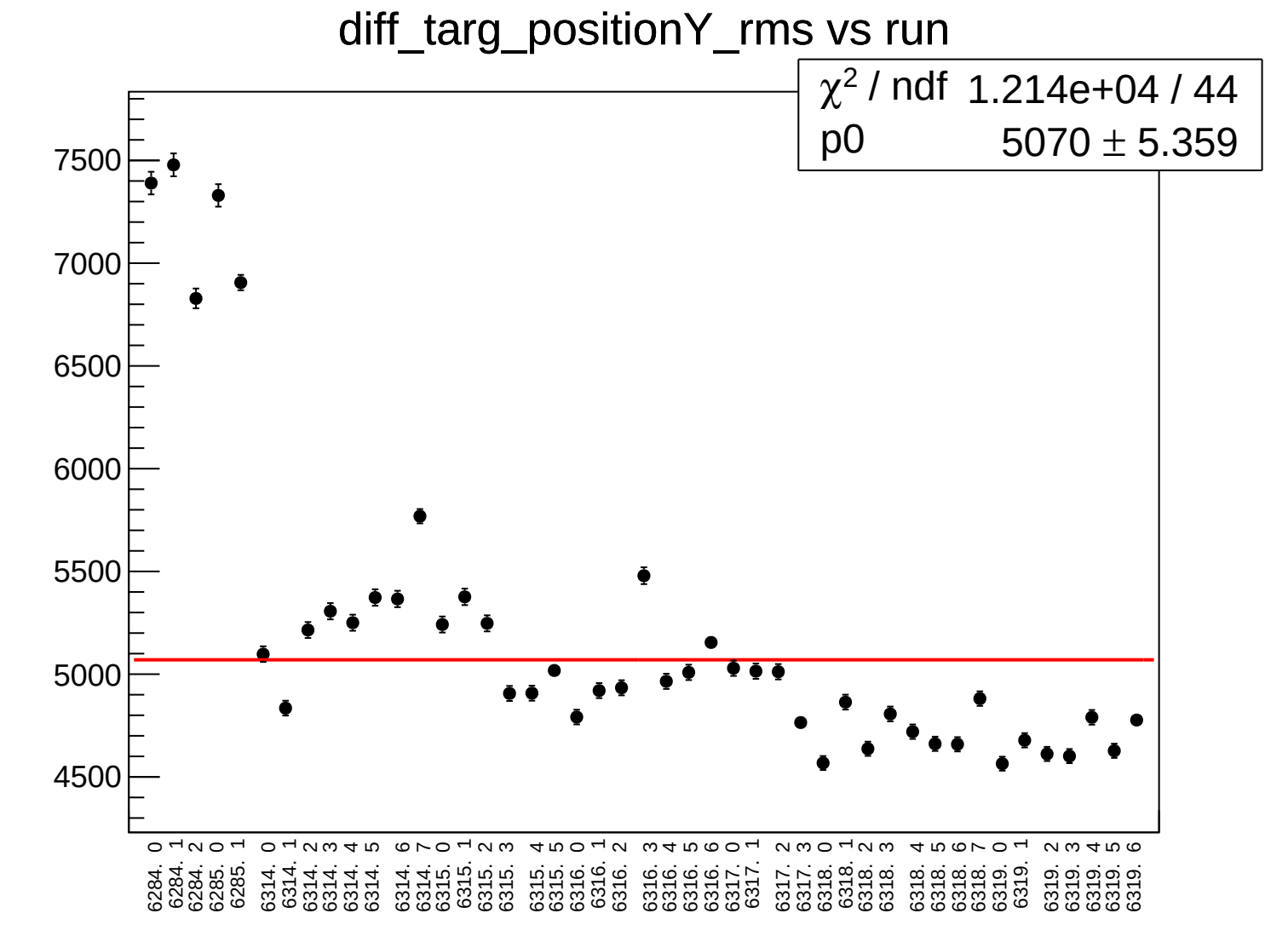

diff_dispE_bpm12X_rms vs run
χ² / ndf 5735 / 44
p0 8.493 ± 0.008945
11.5
11
10.5
10
9.5
9
8.5
8
7.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

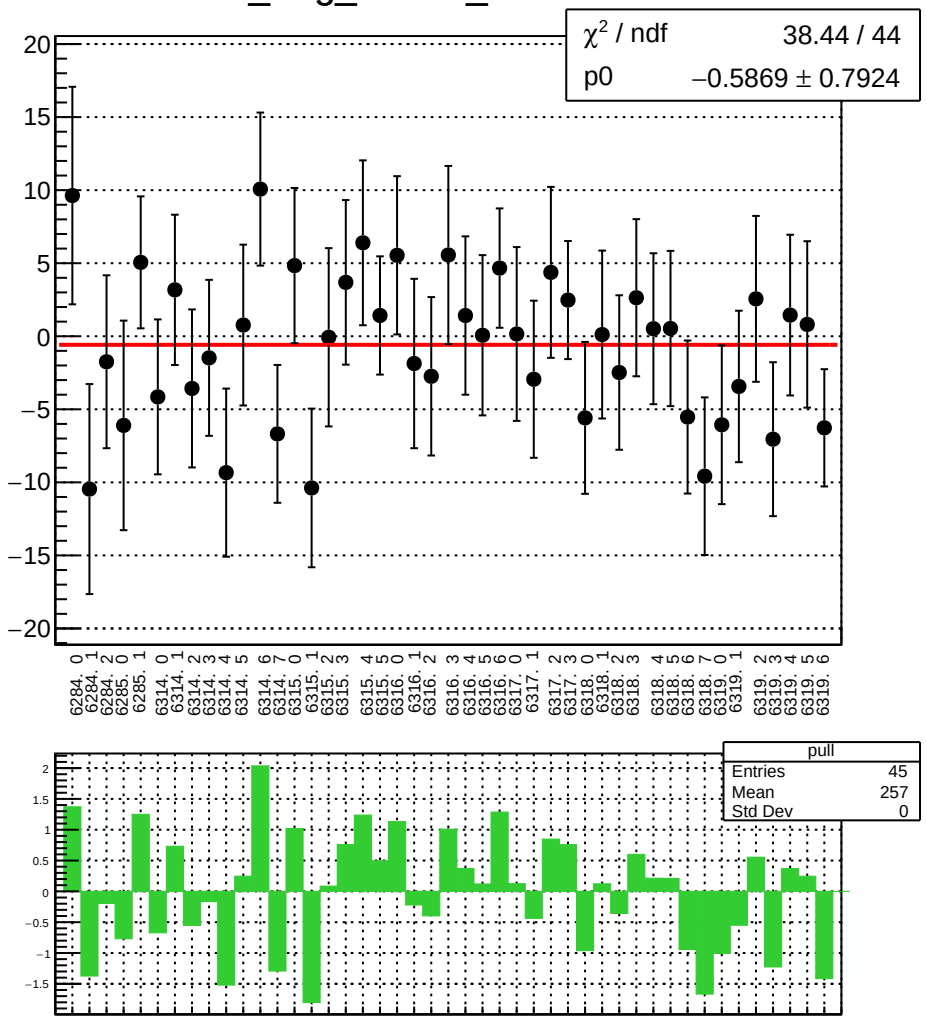

diff_targ_positionX_mean vs run
χ² / ndf 42.01 / 44
p0 −1.945 ± 28.57
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 319.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

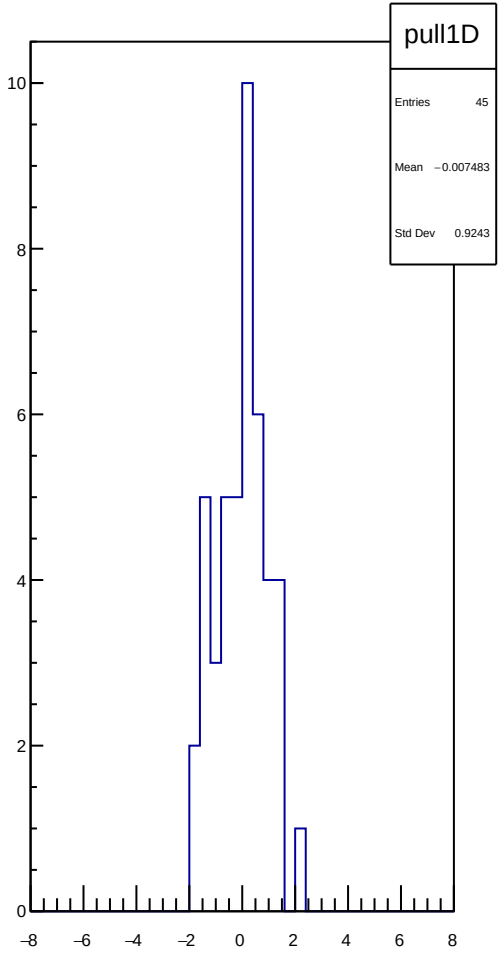

pull1D
Entries 45
Mean 0.004929
Std Dev 0.9661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

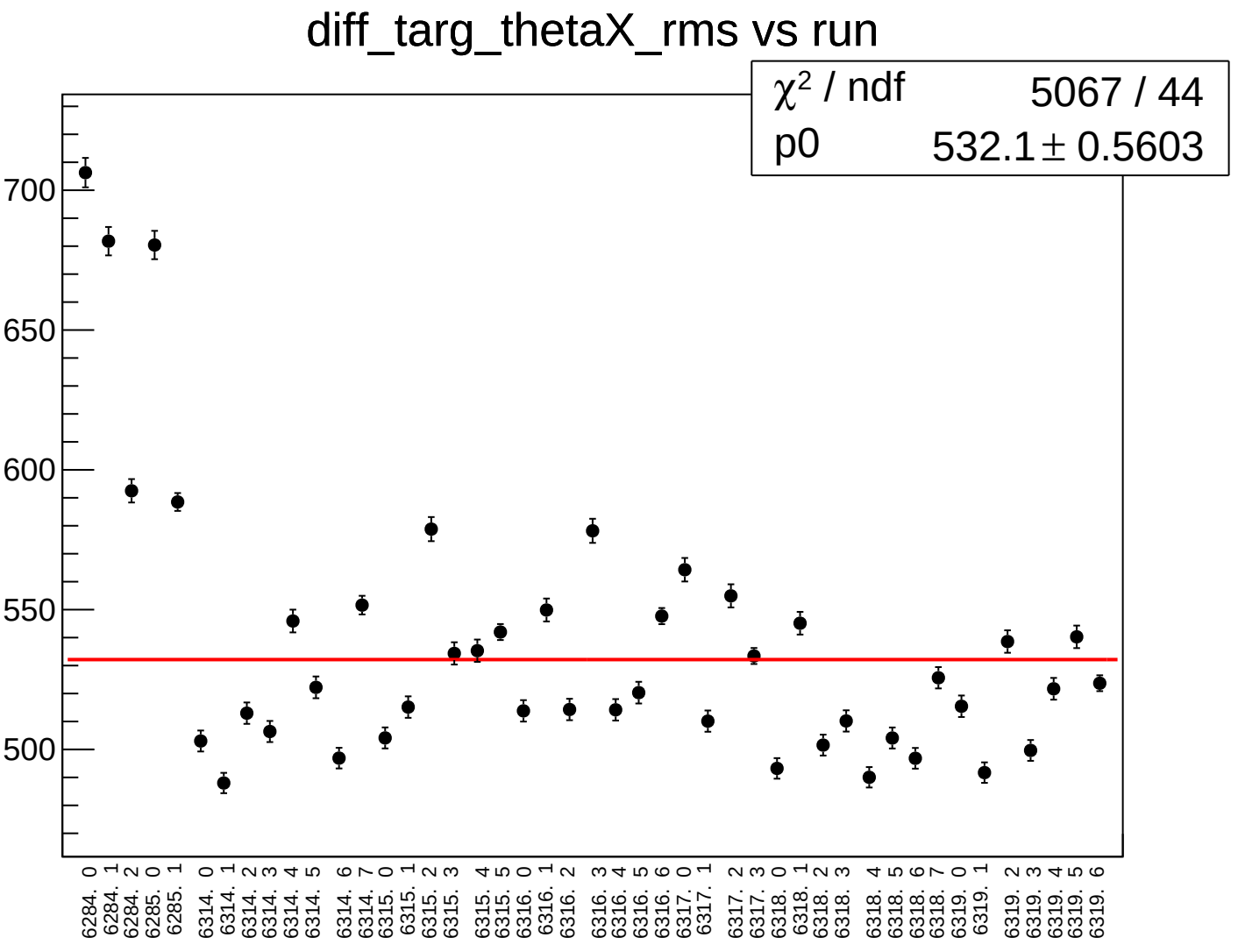

diff_targ_positionX_rms vs run
χ² / ndf 4559 / 44
p0 1.919e+04 ± 20.2
25000
24000
23000
22000
21000
20000
19000
18000
17000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

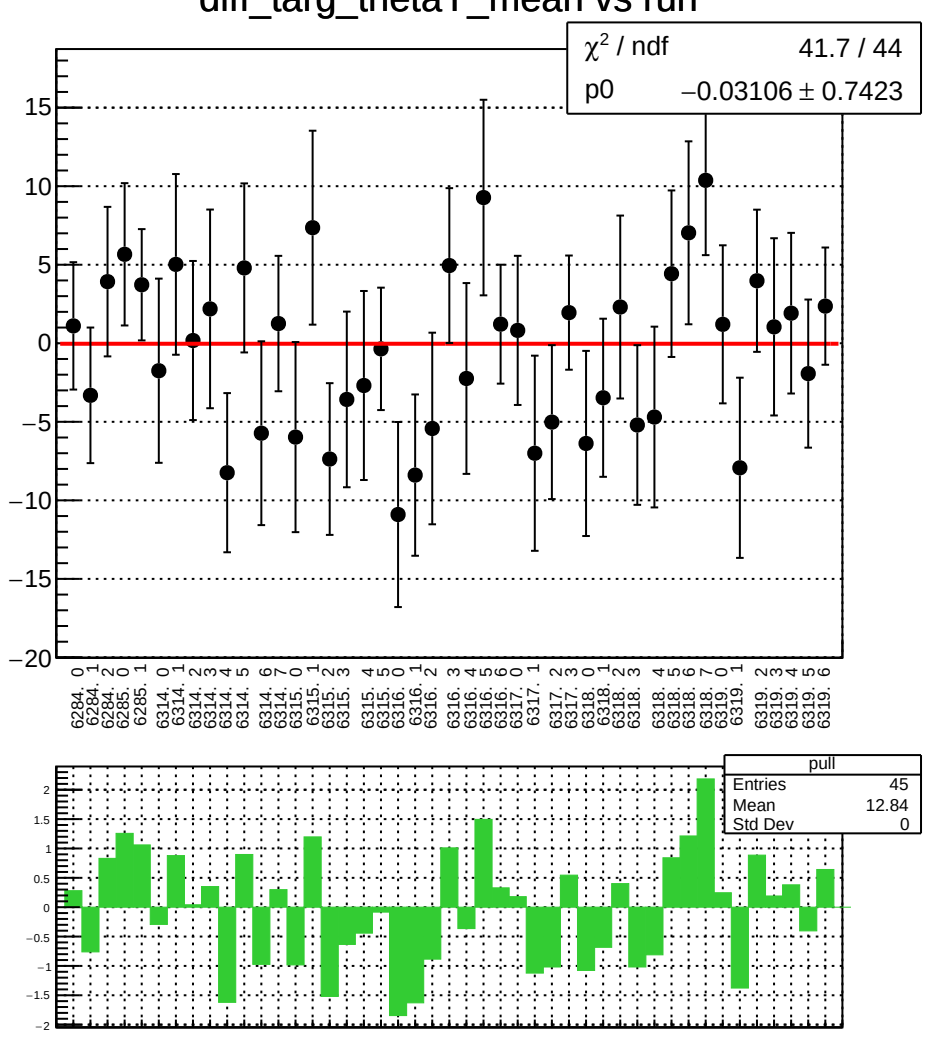

diff_targ_positionY_mean vs run
χ² / ndf 54.59 / 44
p0 13.68 ± 7.579
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 63.53
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01188
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

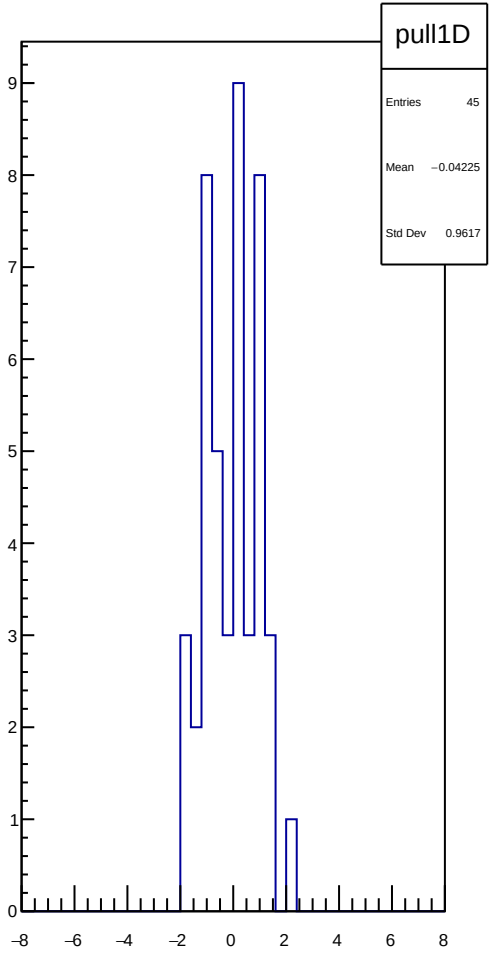

diff_targ_positionY_rms vs run
χ² / ndf 1.214e+04 / 44
p0 5070 ± 5.359
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

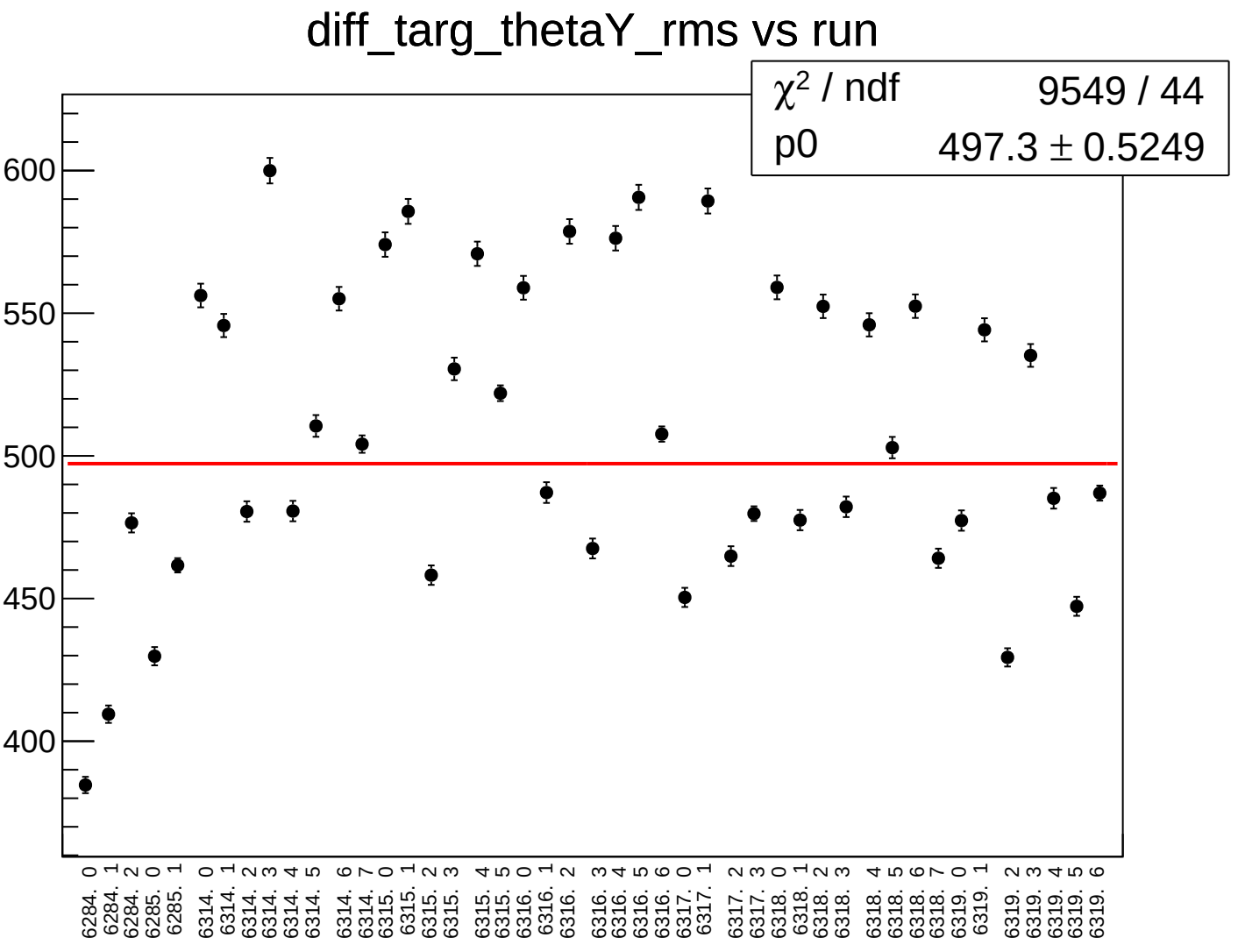

diff_targ_thetaX_mean vs run
χ² / ndf 38.44 / 44
p0 −0.5869 ± 0.7924
pull
Entries 45
Mean 257
Std Dev 0

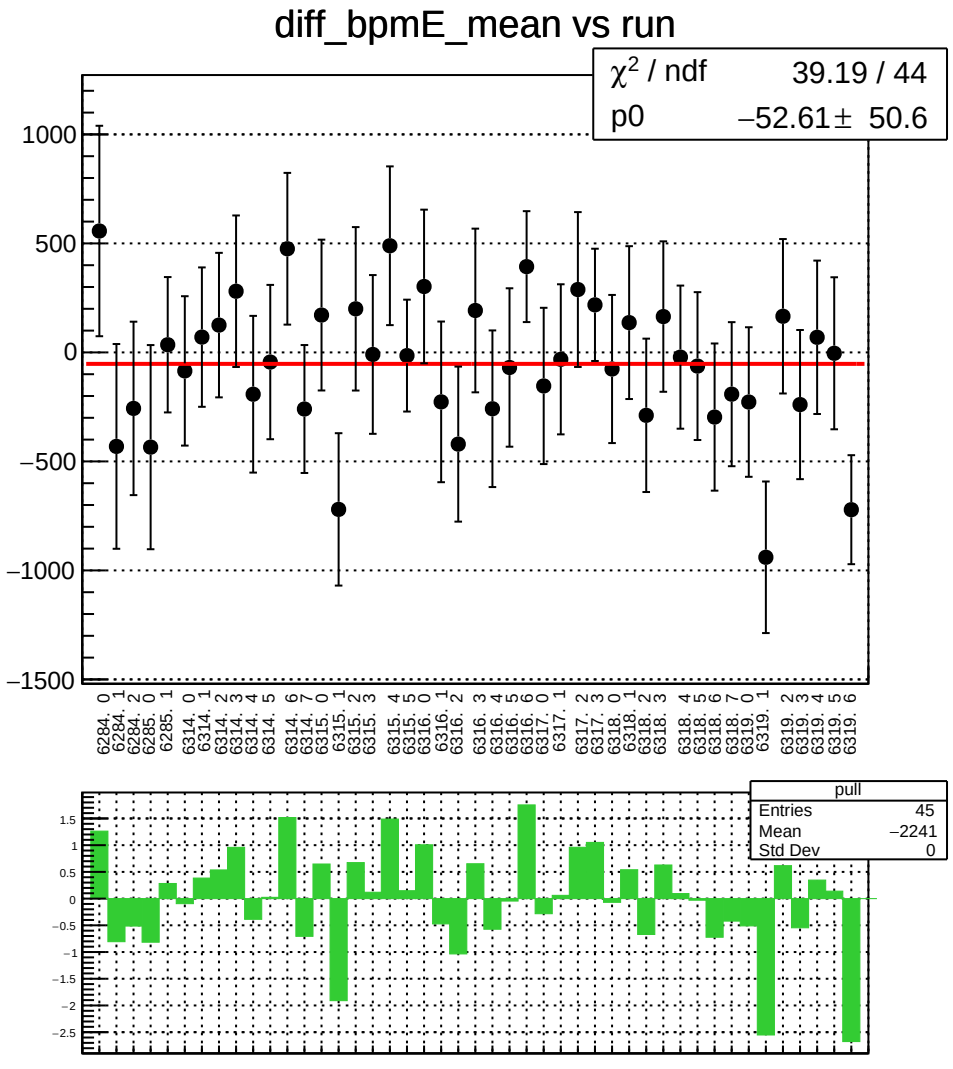

pull1D
Entries 45
Mean −0.007483
Std Dev 0.9243

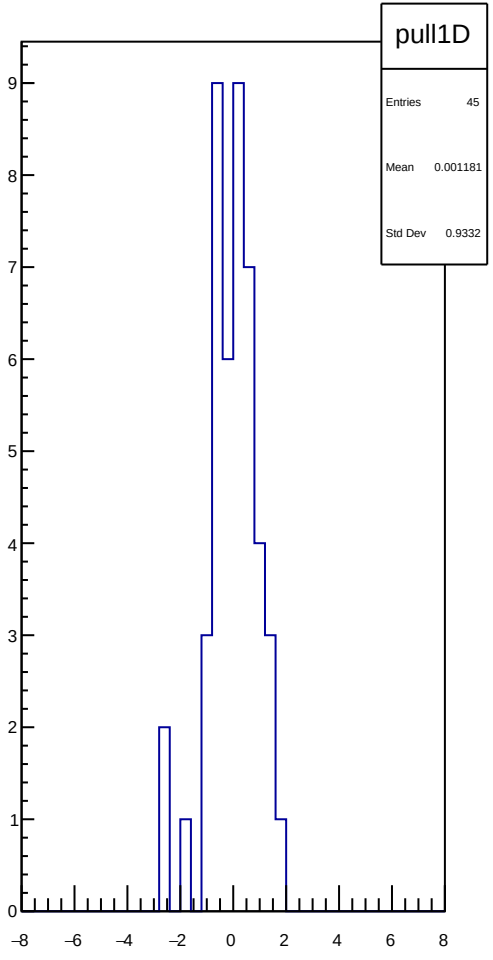

diff_targ_thetaX_rms vs run
χ² / ndf 5067 / 44
p0 532.1 ± 0.5603
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

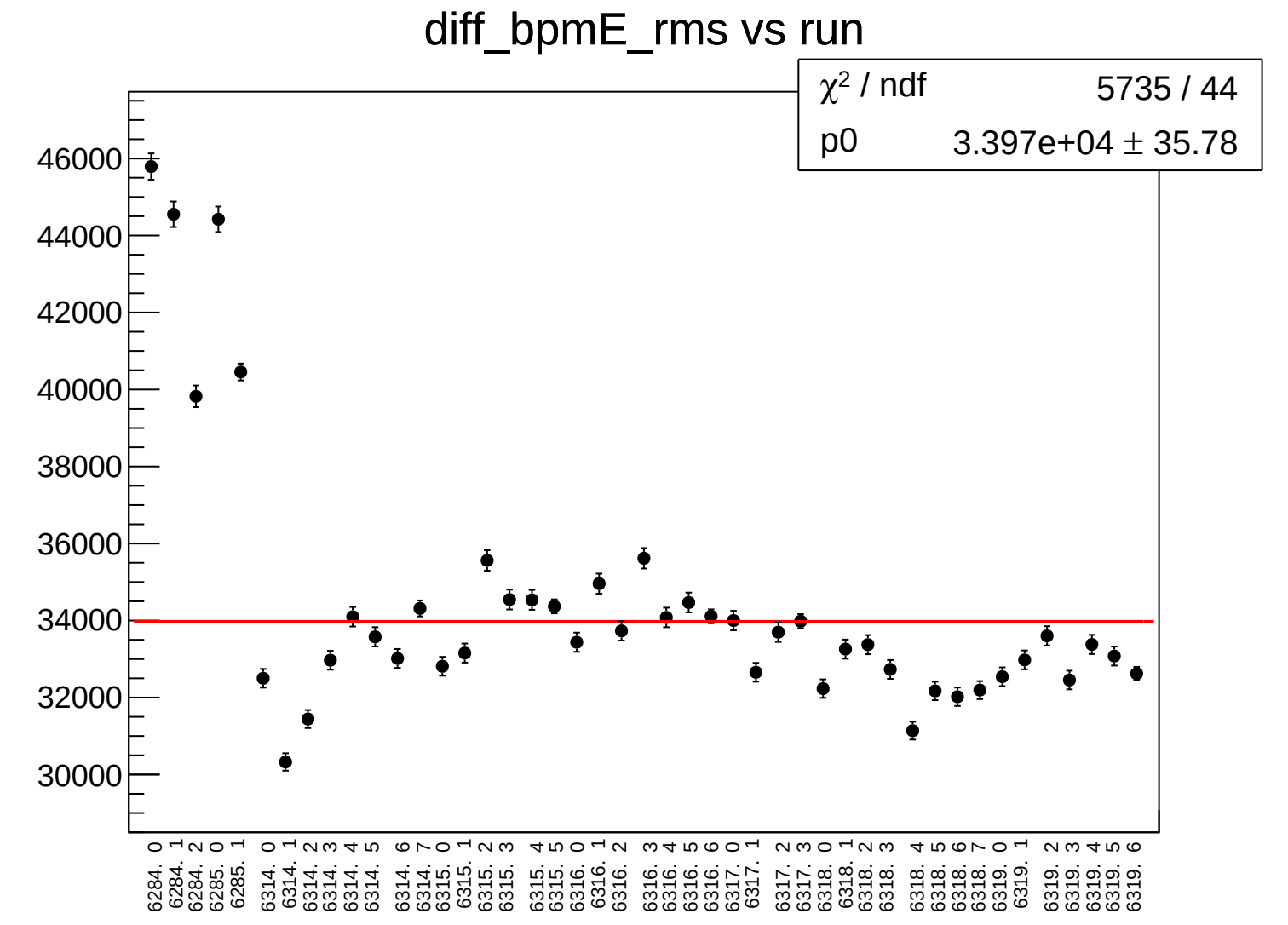

diff_targ_thetaY_mean vs run
χ² / ndf 41.7 / 44
p0 −0.03106 ± 0.7423
pull
Entries 45
Mean 12.84
Std Dev 0

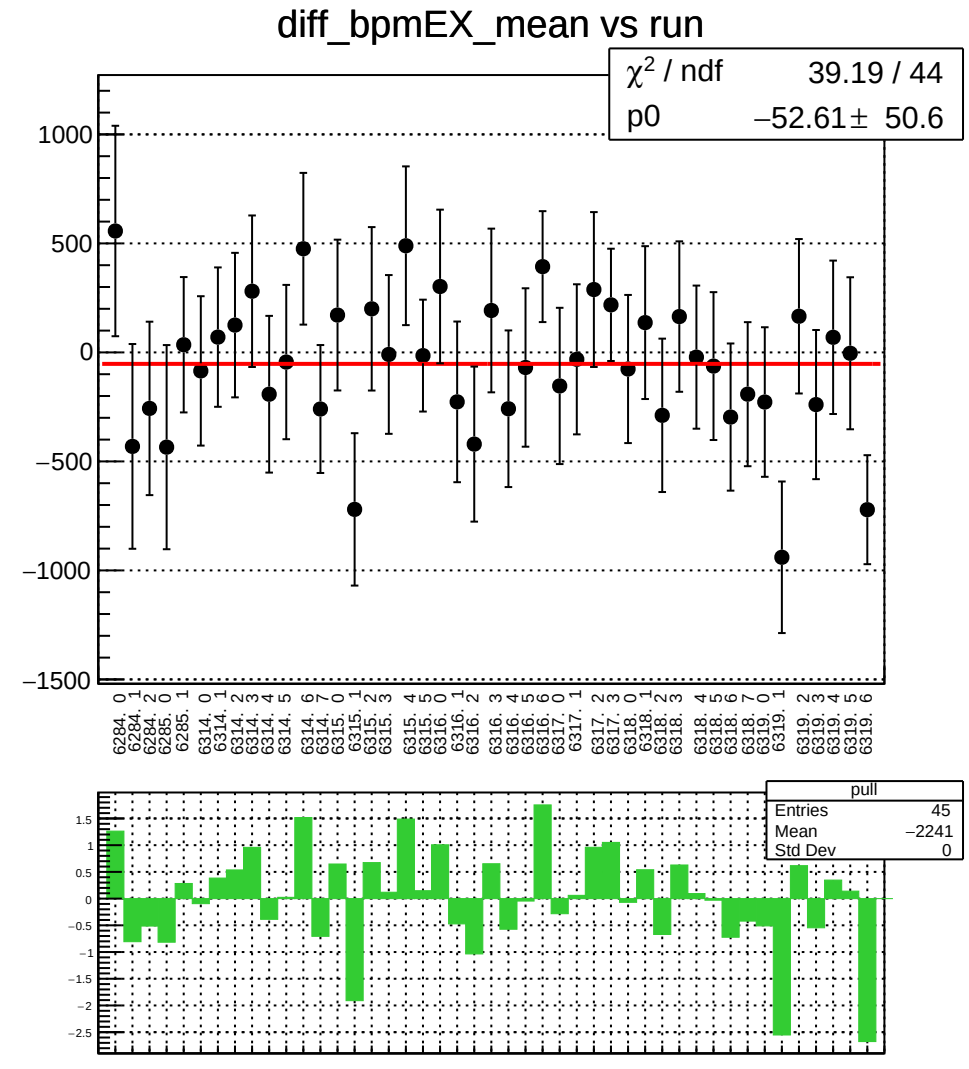

pull1D
Entries 45
Mean −0.04225
Std Dev 0.9617

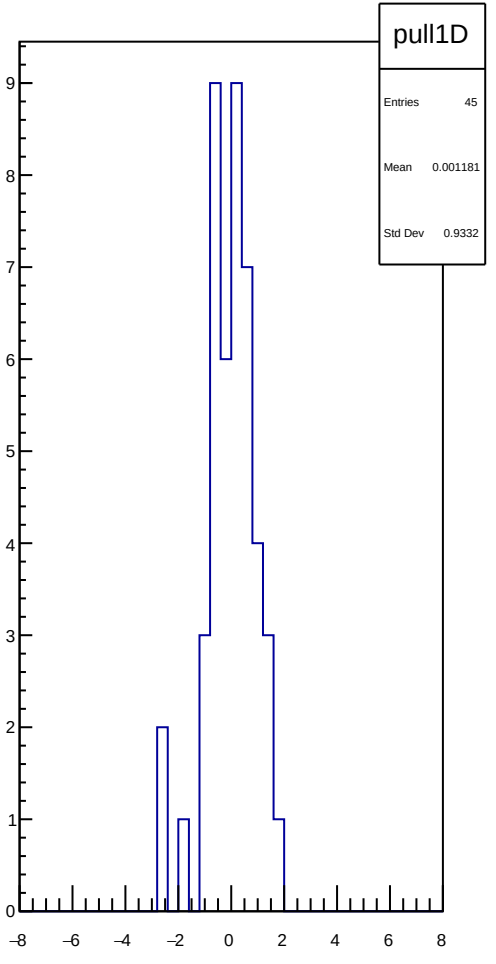

diff_targ_thetaY_rms vs run
χ² / ndf 9549 / 44
p0 497.3 ± 0.5249
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

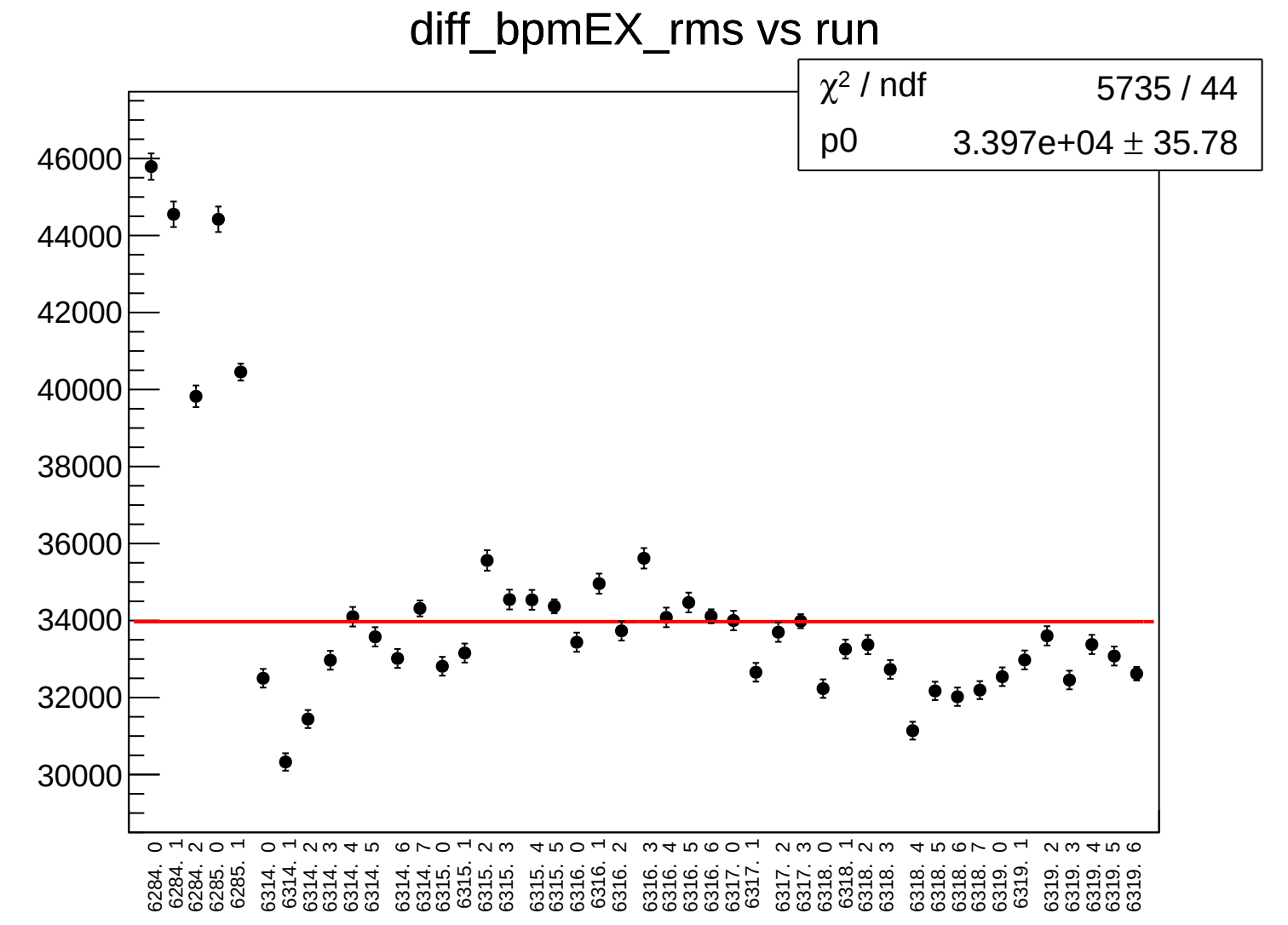

diff_bpmE_mean vs run
χ² / ndf 39.19 / 44
p0 −52.61± 50.6
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2241
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

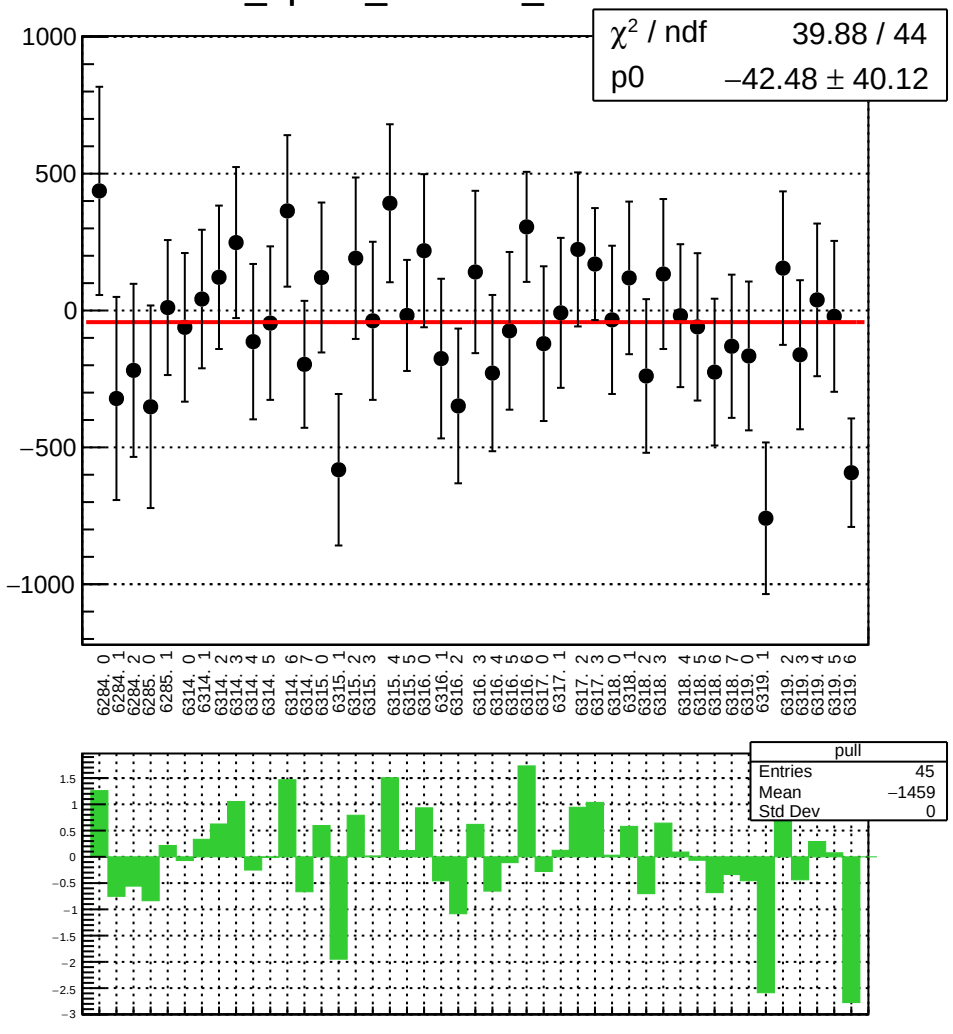

pull1D
Entries 45
Mean 0.001181
Std Dev 0.9332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

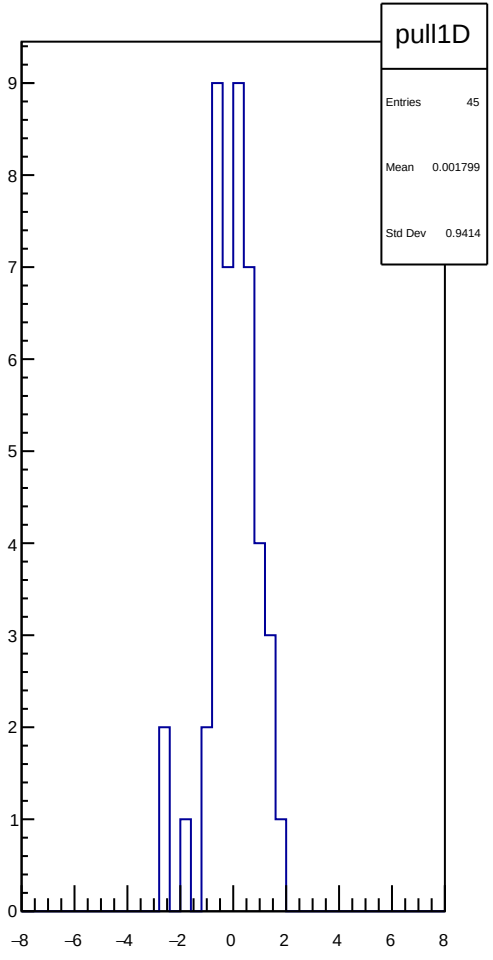

diff_bpmE_rms vs run
χ² / ndf 5735 / 44
p0 3.397e+04 ± 35.78
46000
44000
42000
40000
38000
36000
34000
32000
30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

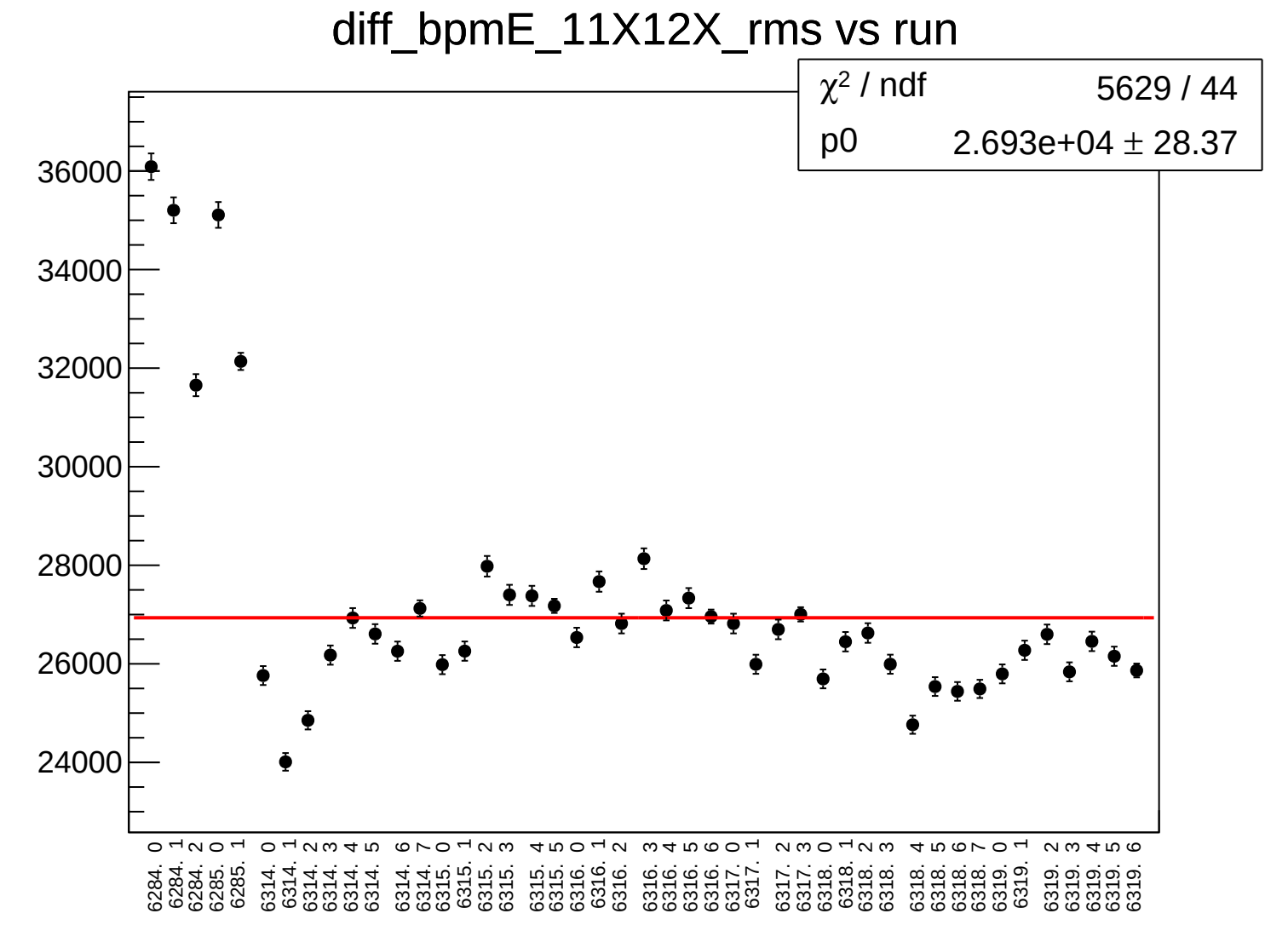

diff_bpmEX_mean vs run
χ² / ndf 39.19 / 44
p0 −52.61± 50.6
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2241
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

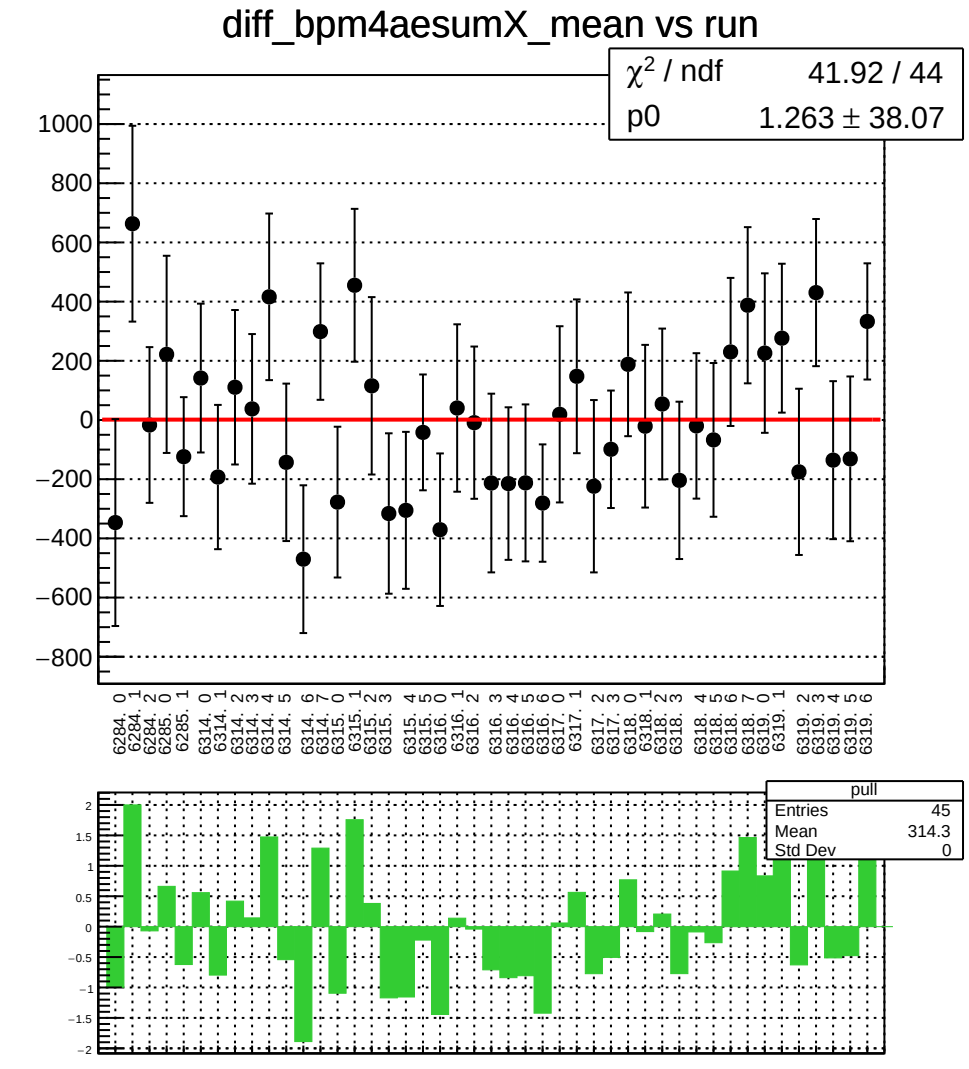

pull1D
Entries 45
Mean 0.001181
Std Dev 0.9332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

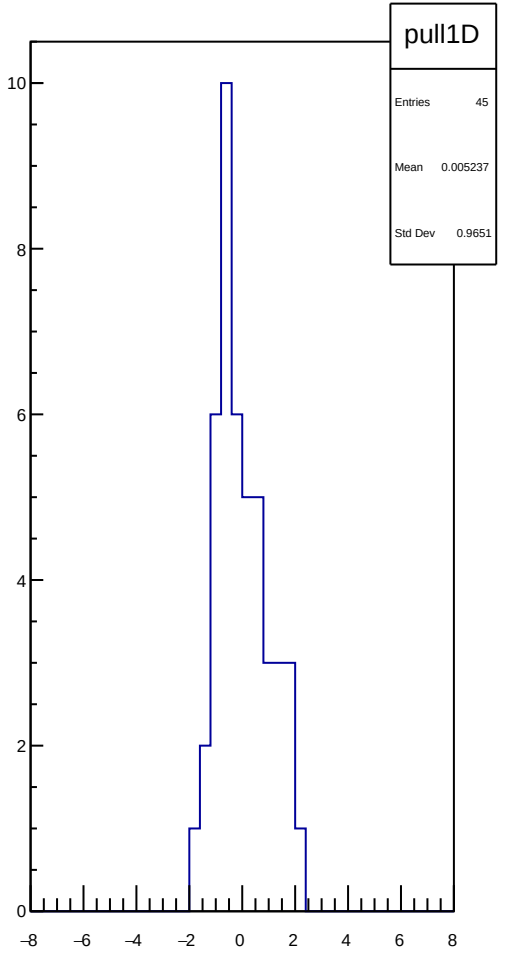

diff_bpmEX_rms vs run
χ² / ndf 5735 / 44
p0 3.397e+04 ± 35.78
46000
44000
42000
40000
38000
36000
34000
32000
30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

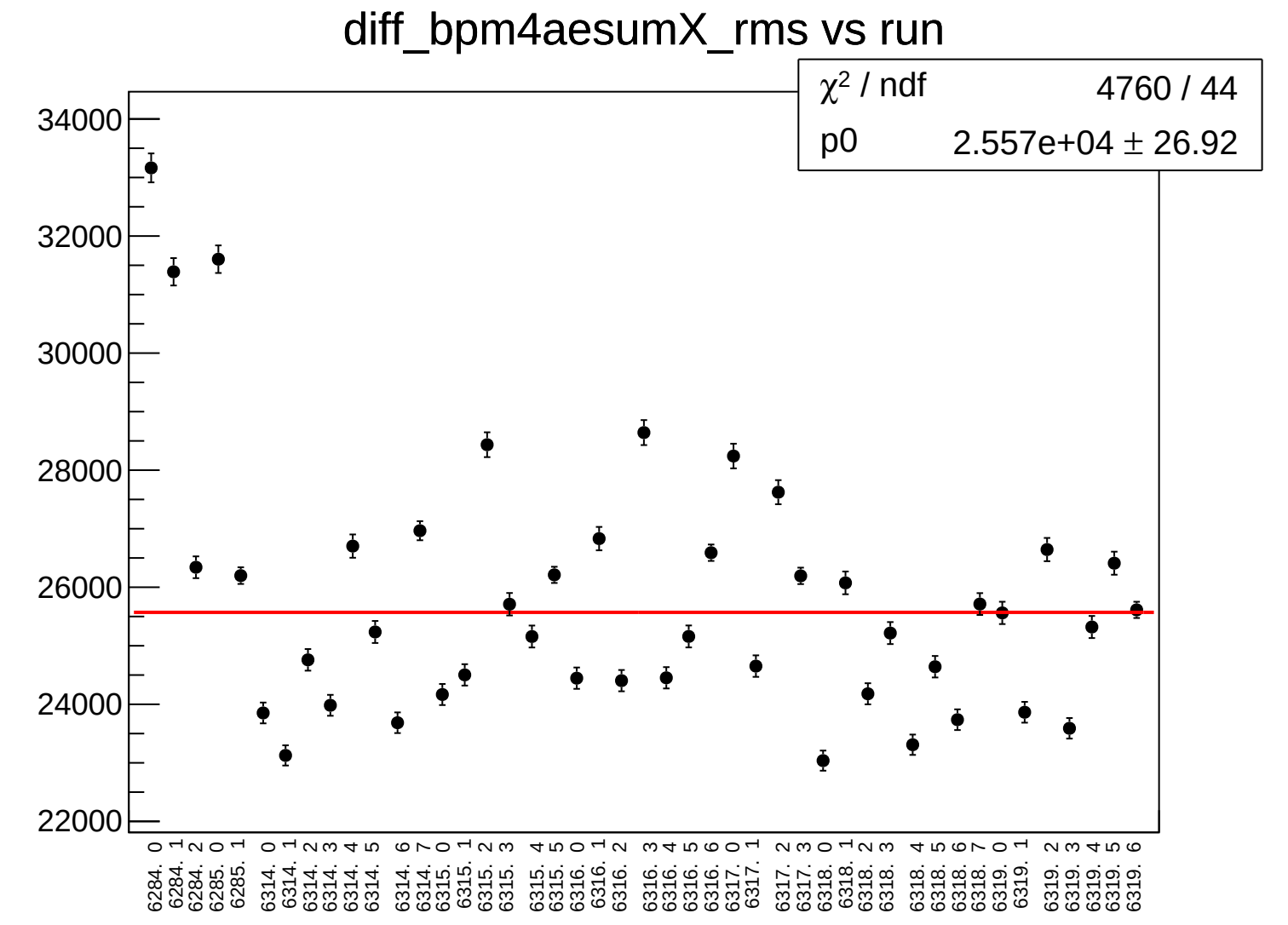

diff_bpmE_11X12X_mean vs run
χ² / ndf 39.88 / 44
p0 −42.48 ± 40.12
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1459
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

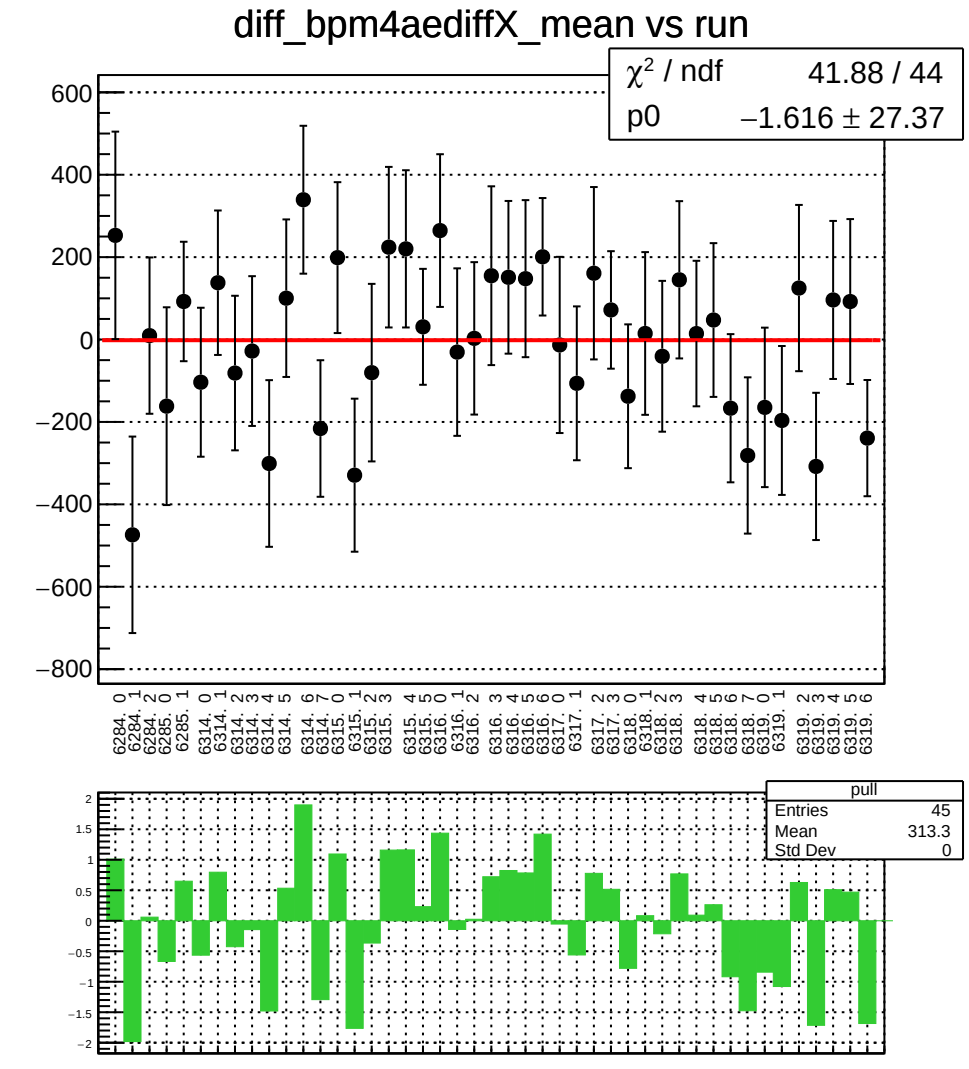

pull1D
Entries 45
Mean 0.001799
Std Dev 0.9414
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

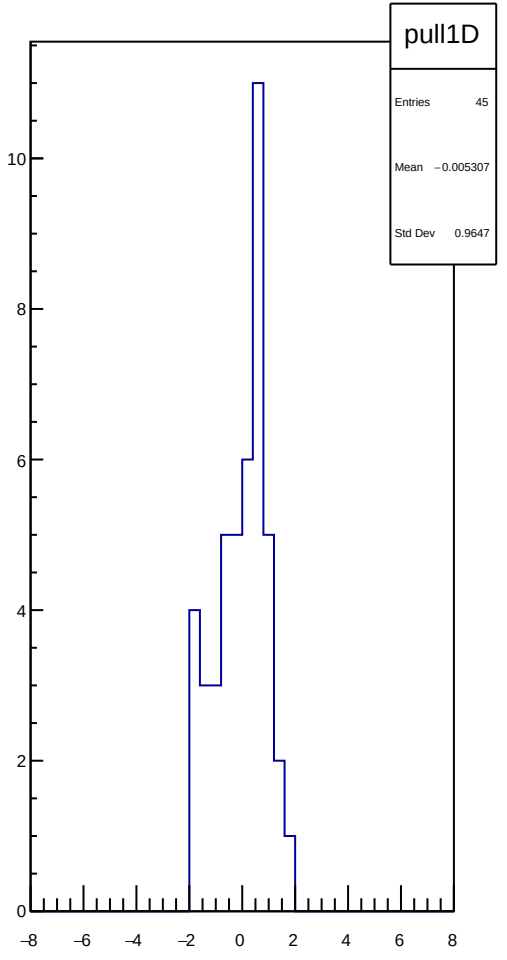

diff_bpmE_11X12X_rms vs run
χ² / ndf 5629 / 44
p0 2.693e+04 ± 28.37
36000
34000
32000
30000
28000
26000
24000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

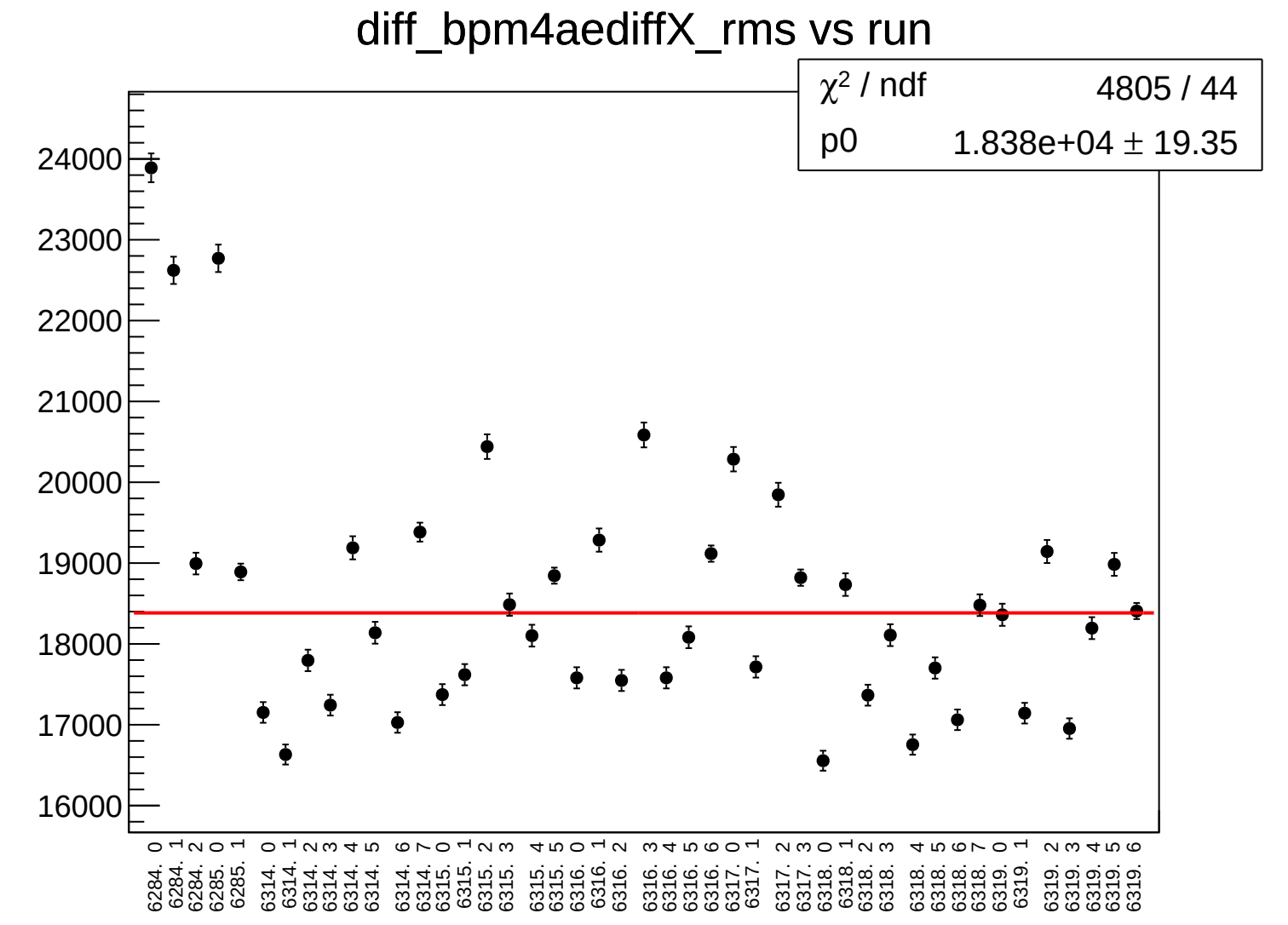

diff_bpm4aesumX_mean vs run
χ^2 / ndf 41.92 / 44
p0 1.263 ± 38.07
pull
Entries 45
Mean 314.3
Std Dev 0


pull1D
Entries 45
Mean 0.005237
Std Dev 0.9651


diff_bpm4aesumX_rms vs run
χ² / ndf 4760 / 44
p0 2.557e+04 ± 26.92
34000
32000
30000
28000
26000
24000
22000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm4aediffX_mean vs run
χ² / ndf 41.88 / 44
p0 −1.616 ± 27.37
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 313.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.005307
Std Dev 0.9647
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4aediffX_rms vs run
χ² / ndf 4805 / 44
p0 1.838e+04 ± 19.35
24000
23000
22000
21000
20000
19000
18000
17000
16000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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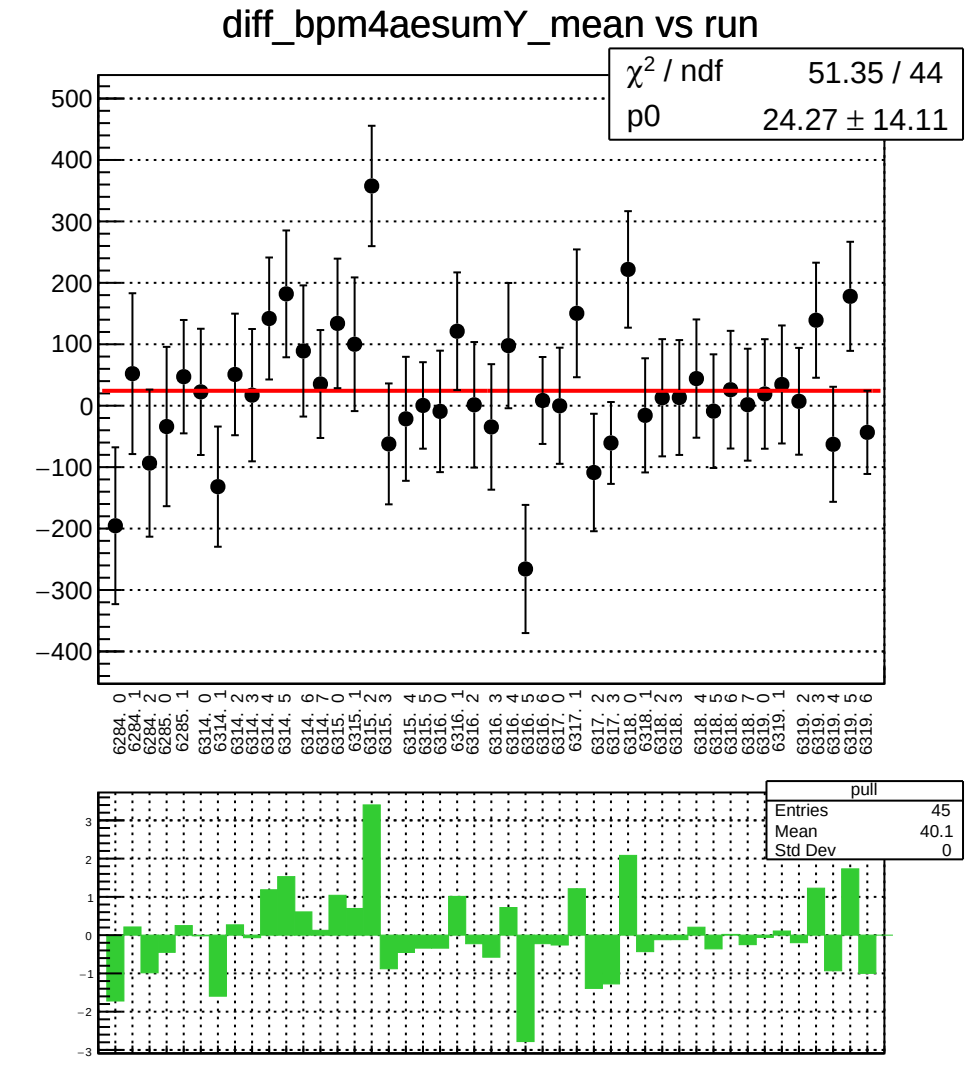
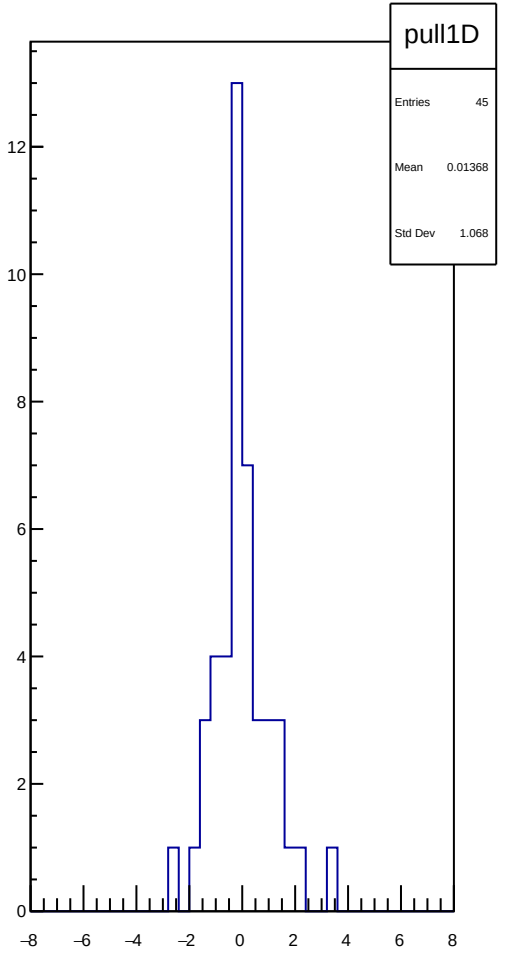
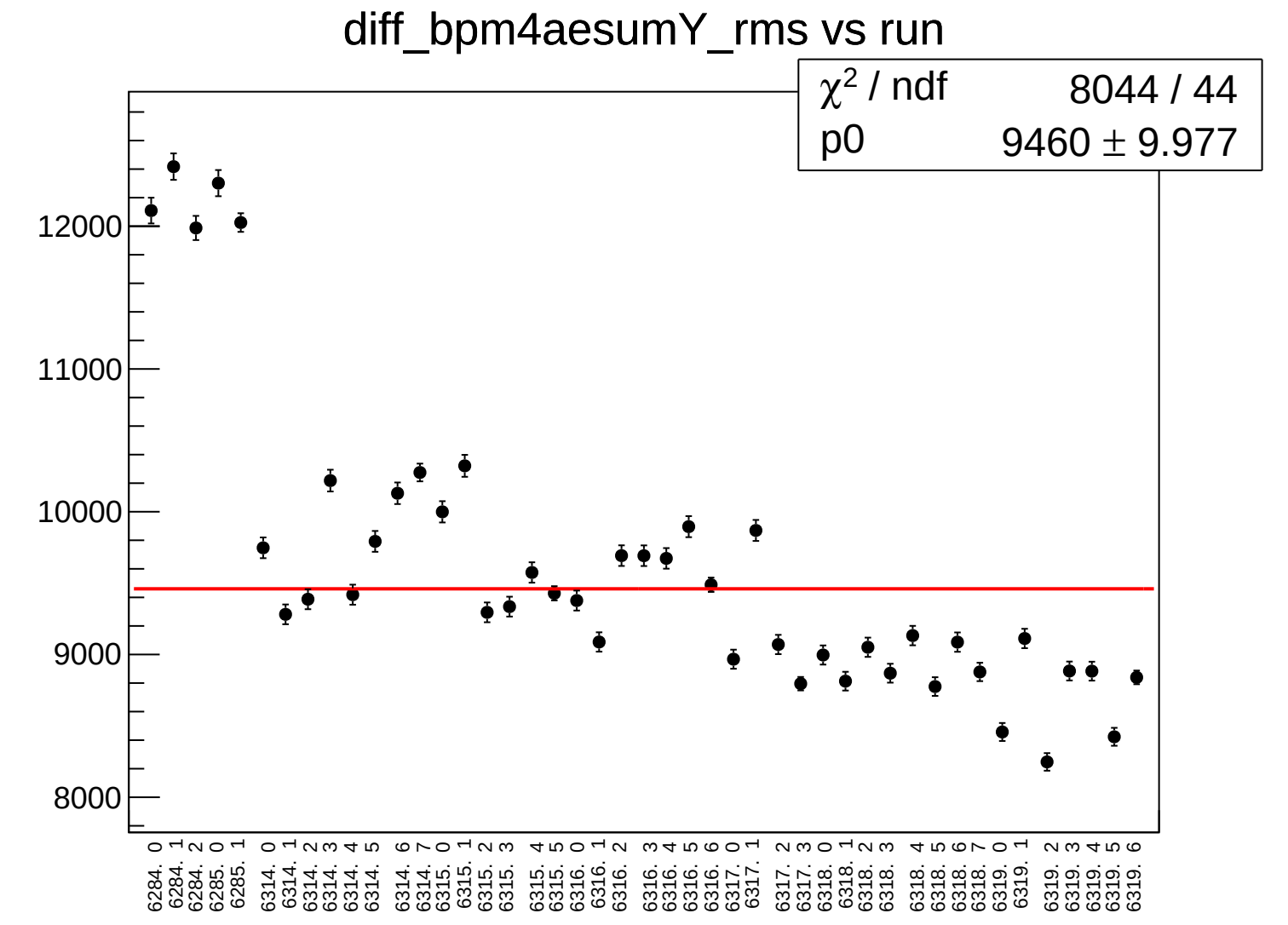
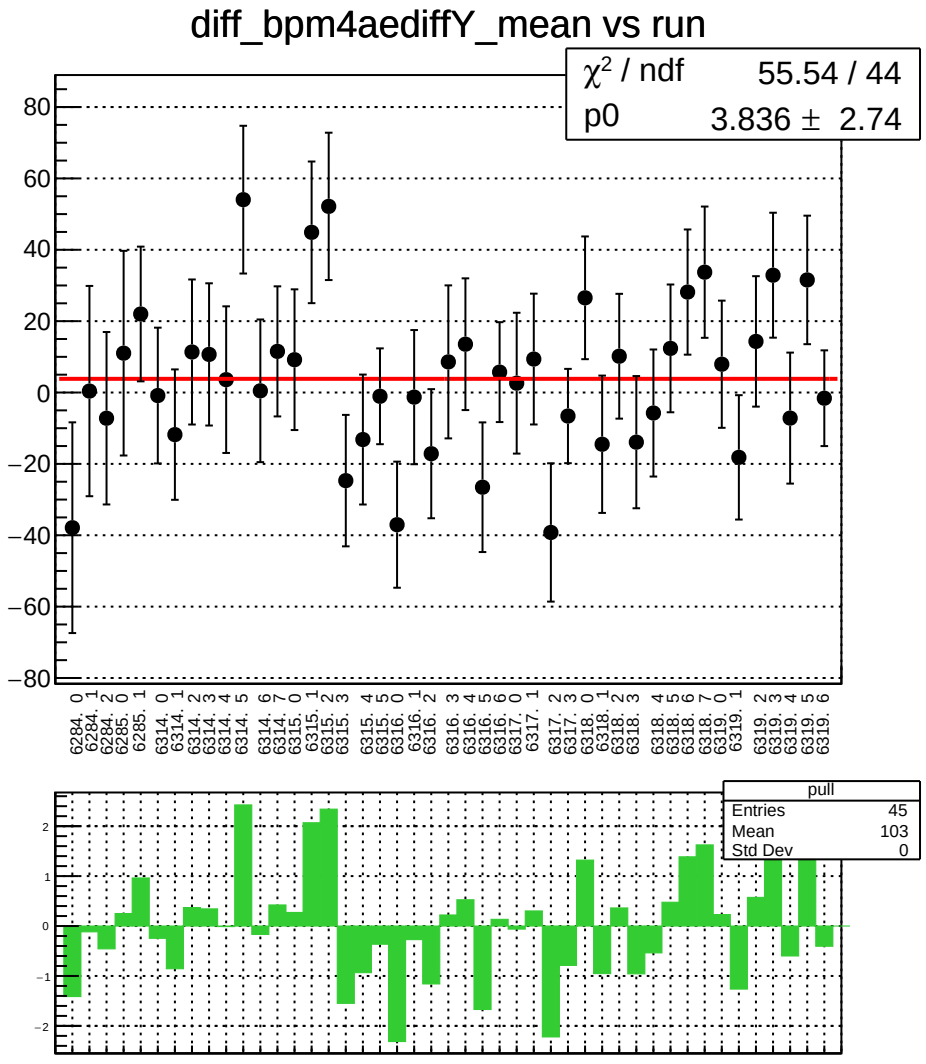
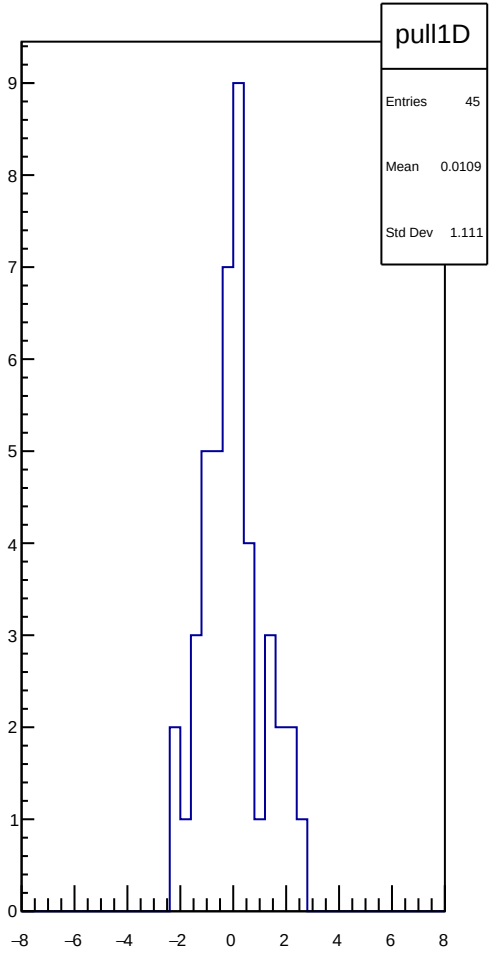
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

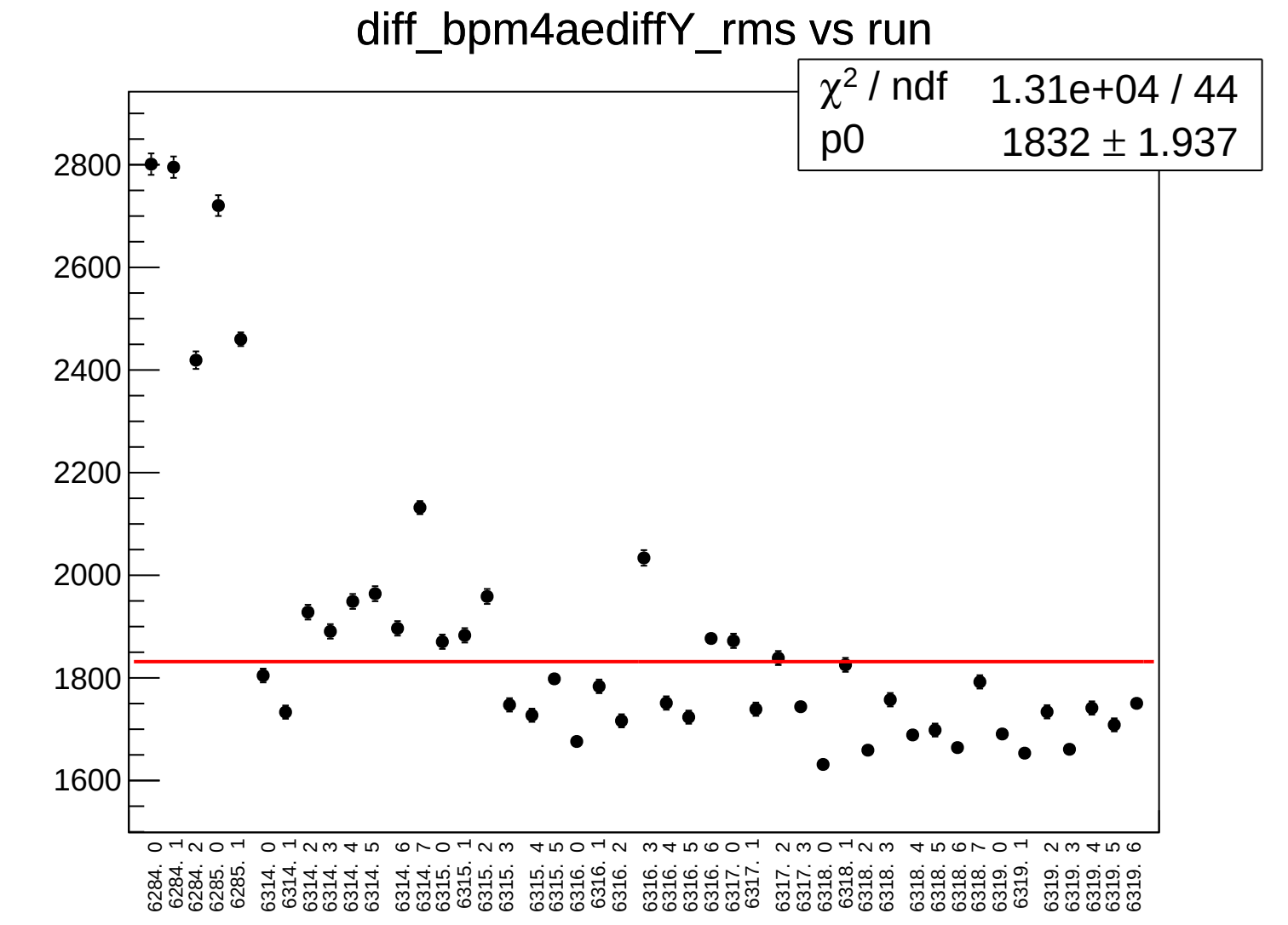

diff_bpm4aesumY_mean vs run
χ² / ndf 51.35 / 44
p0 24.27 ± 14.11
pull
Entries 45
Mean 40.1
Std Dev 0

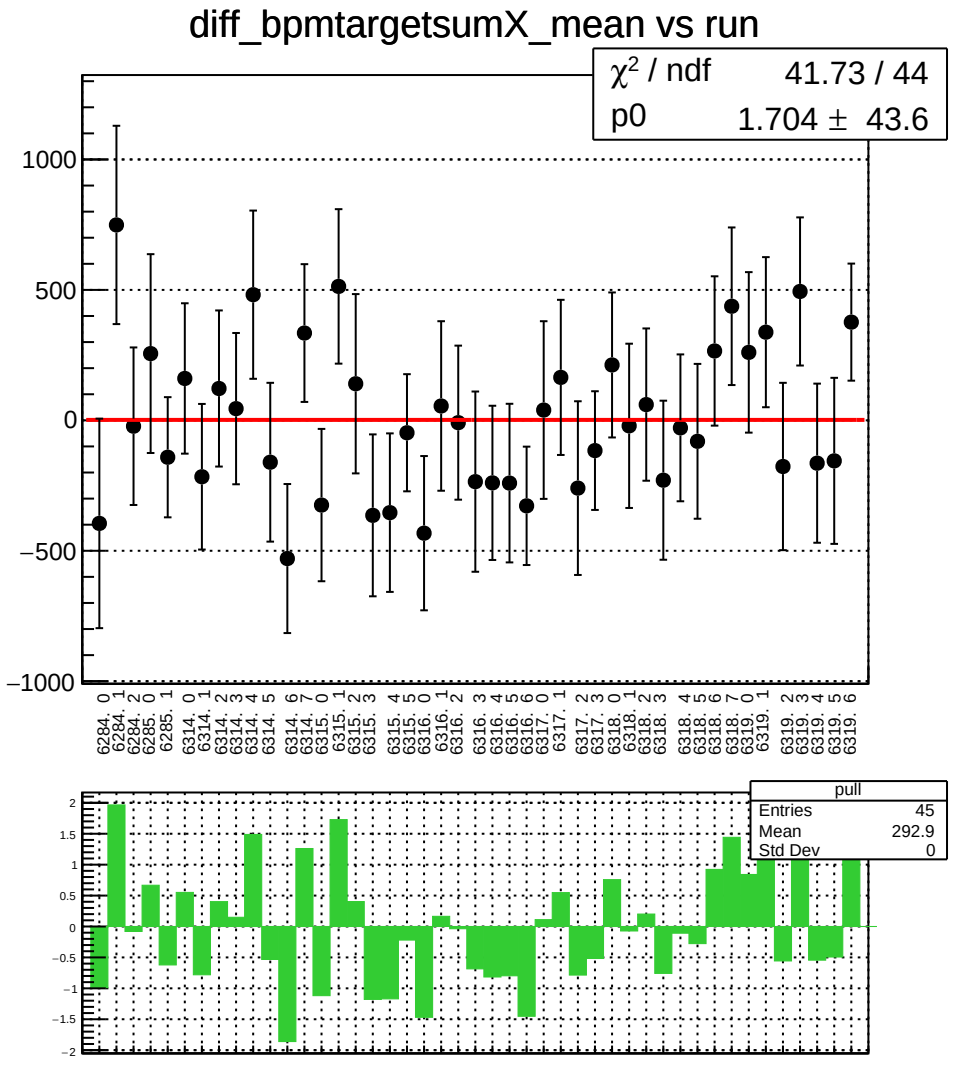

pull1D
Entries 45
Mean 0.01368
Std Dev 1.068

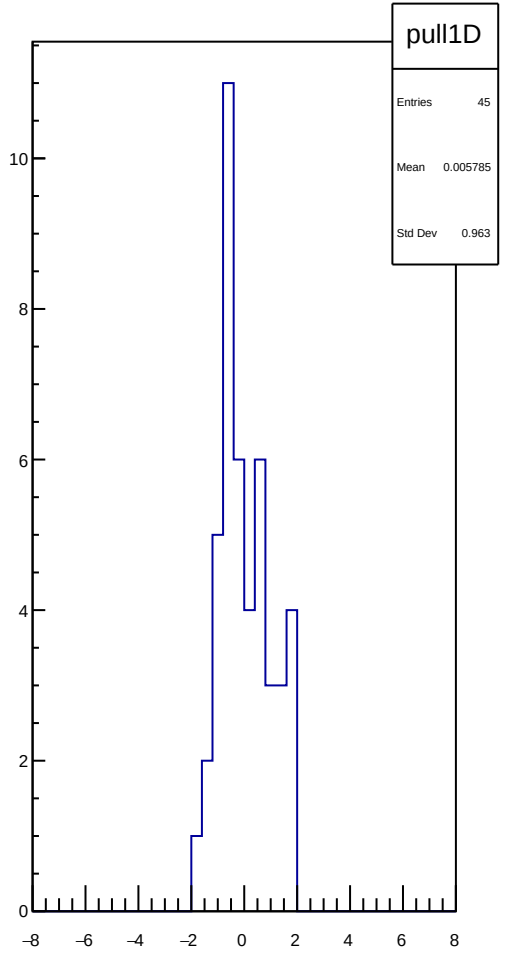

diff_bpm4aesumY_rms vs run
χ² / ndf 8044 / 44
p0 9460 ± 9.977
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

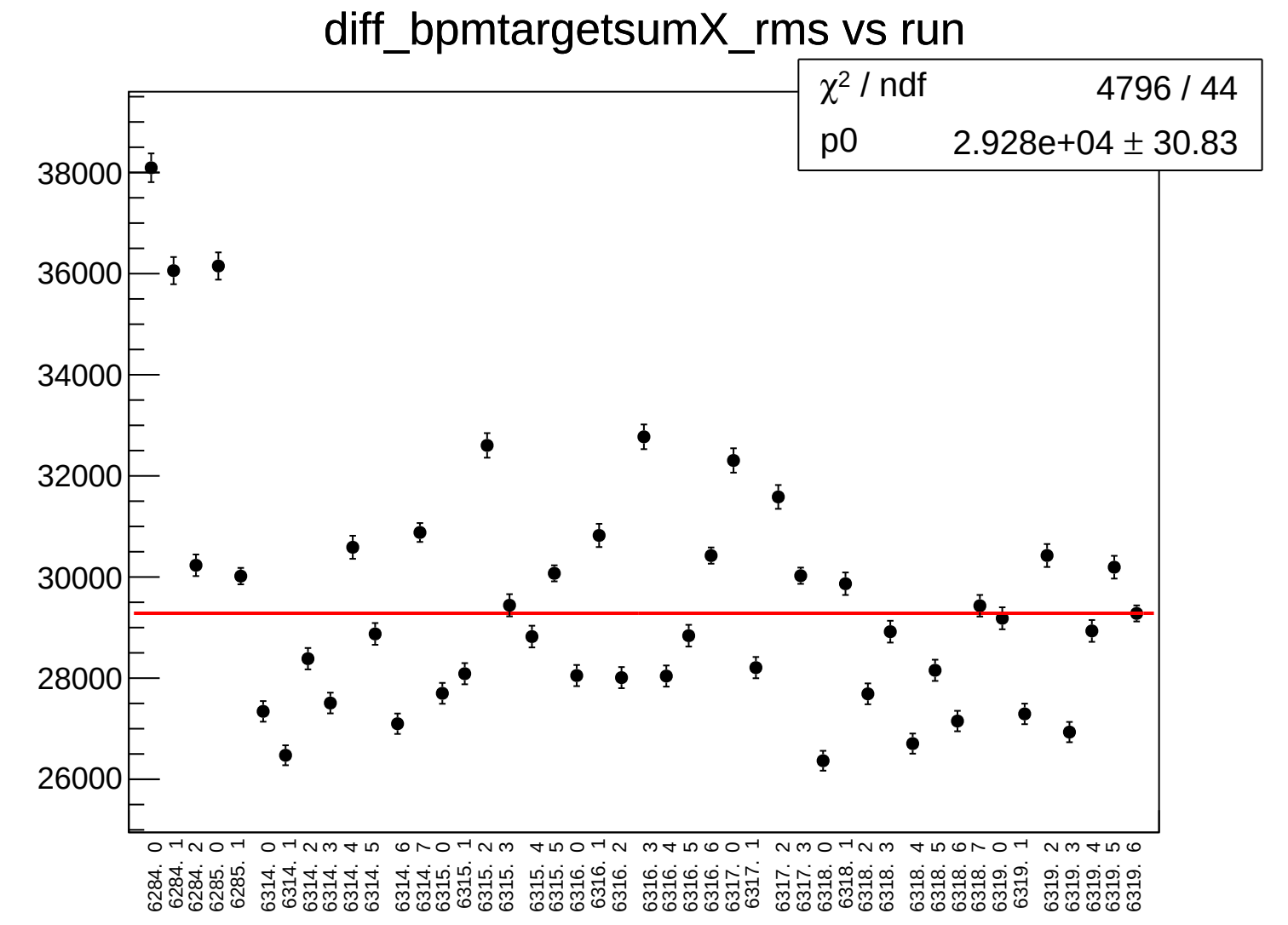

diff_bpm4aediffY_mean vs run
χ² / ndf 55.54 / 44
p0 3.836 ± 2.74
pull
Entries 45
Mean 103
Std Dev 0

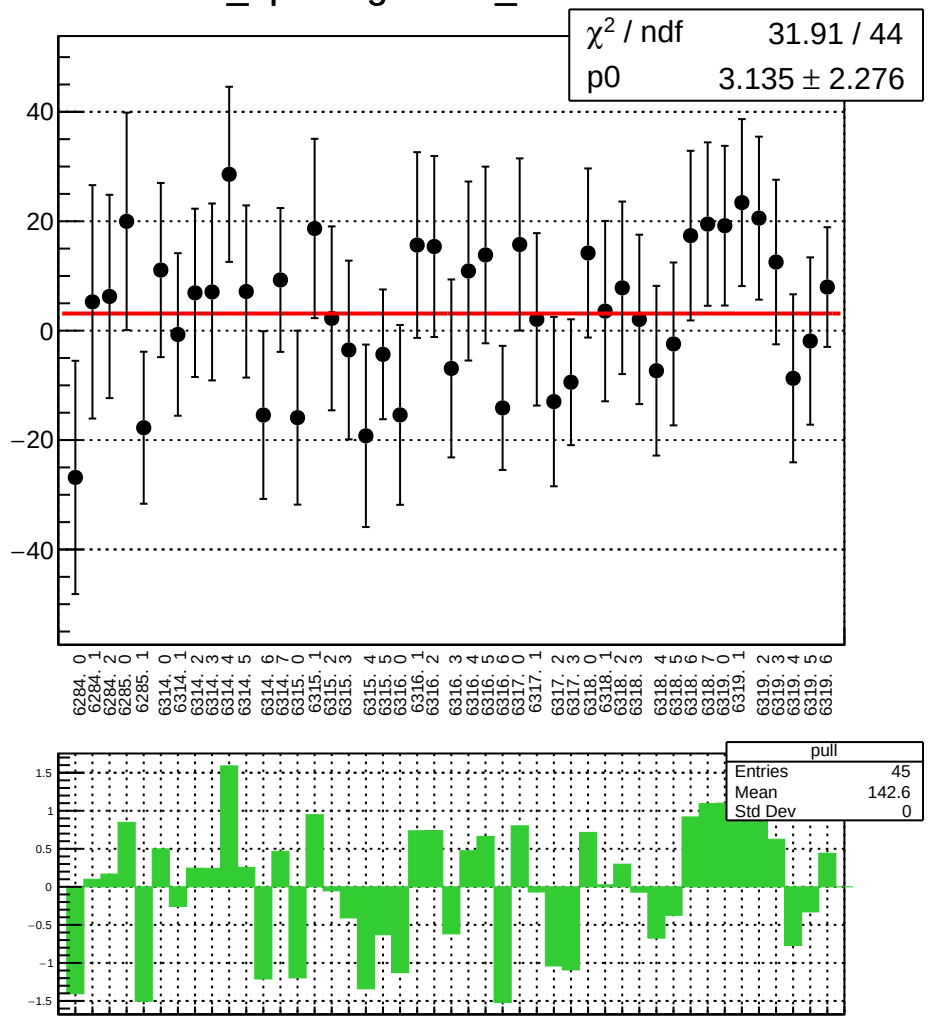

pull1D
Entries 45
Mean 0.0109
Std Dev 1.111

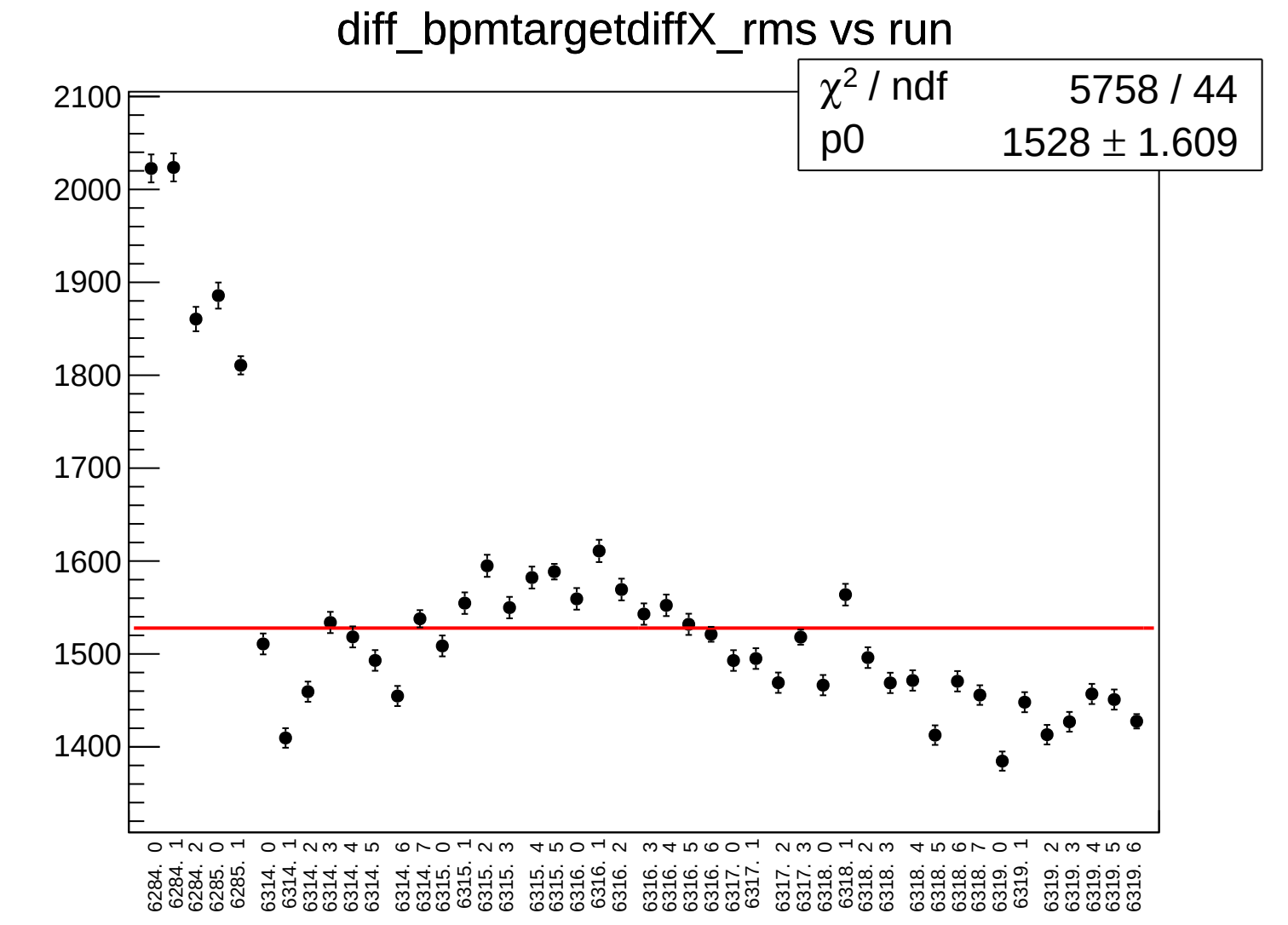

diff_bpm4aediffY_rms vs run
χ² / ndf 1.31e+04 / 44
p0 1832 ± 1.937
2800
2600
2400
2200
2000
1800
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

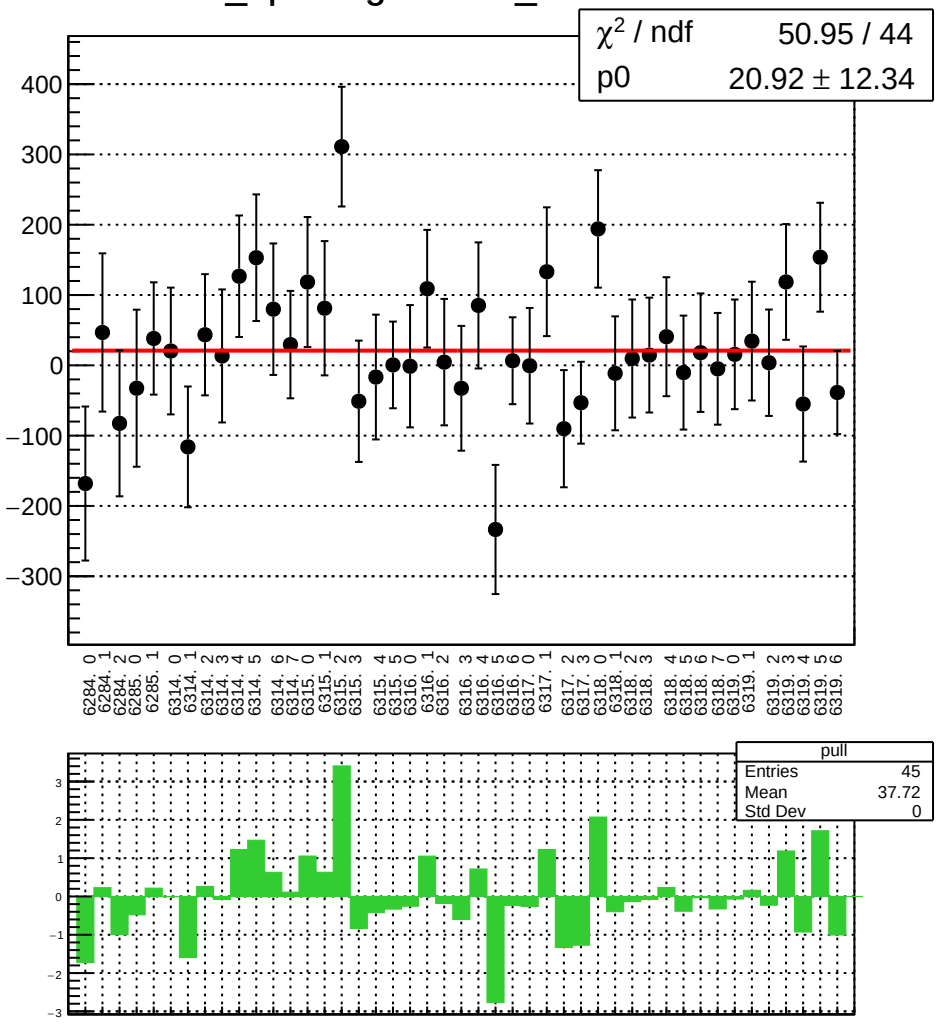

diff_bpmtargetsumX_mean vs run
χ² / ndf 41.73 / 44
p0 1.704 ± 43.6
1000
500
0
−500
−1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 292.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

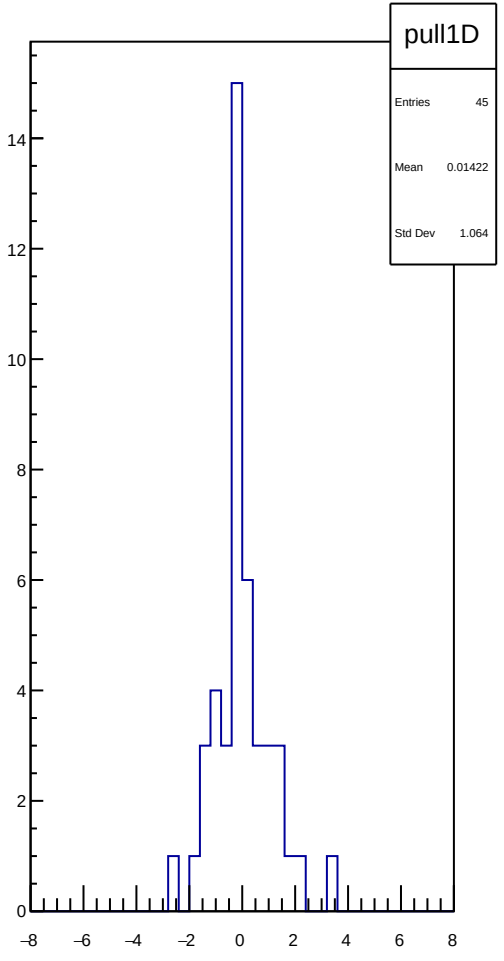

pull1D
Entries 45
Mean 0.005785
Std Dev 0.963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

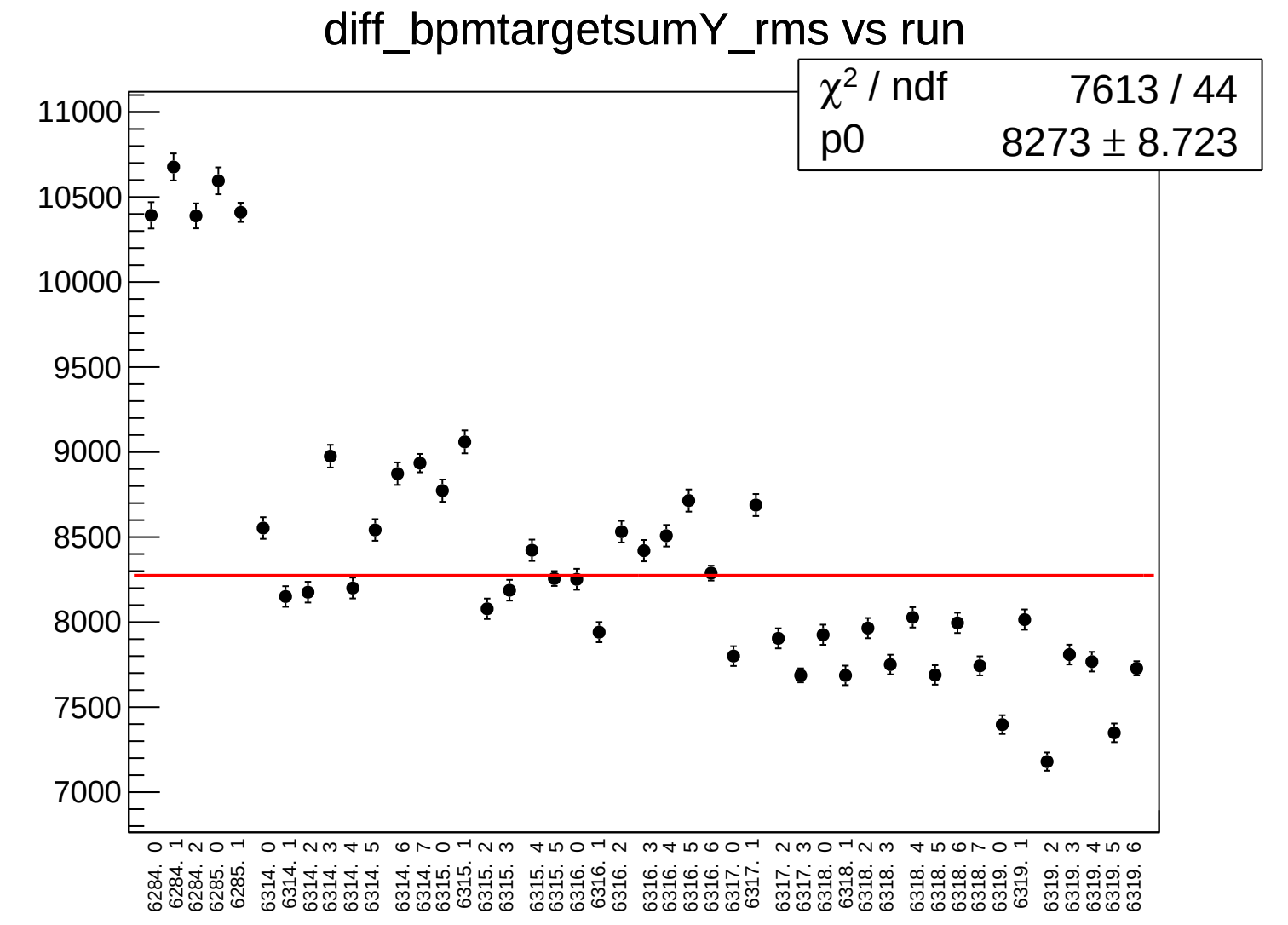

diff_bpmtargetsumX_rms vs run
χ² / ndf 4796 / 44
p0 2.928e+04 ± 30.83
38000
36000
34000
32000
30000
28000
26000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpmtargetdiffX_mean vs run
χ^2 / ndf 31.91 / 44
p0 3.135 ± 2.276
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 142.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01803
Std Dev 0.8419
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpmtargetdiffX_rms vs run
χ² / ndf 5758 / 44
p0 1528 ± 1.609
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpmtargetsumY_mean vs run
χ² / ndf 50.95 / 44
p0 20.92 ± 12.34
400
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.72
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01422
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpmtargetsumY_rms vs run
χ² / ndf 7613 / 44
p0 8273 ± 8.723
11000
10500
10000
9500
9000
8500
8000
7500
7000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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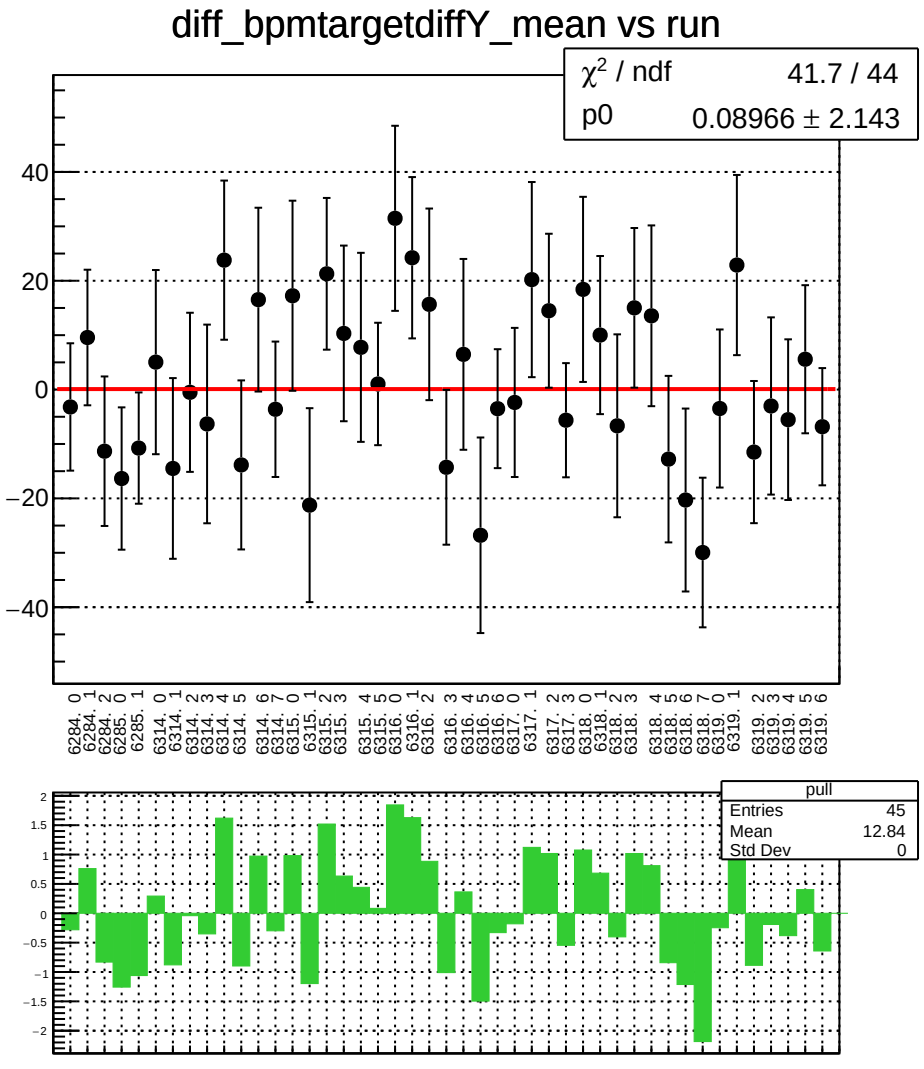
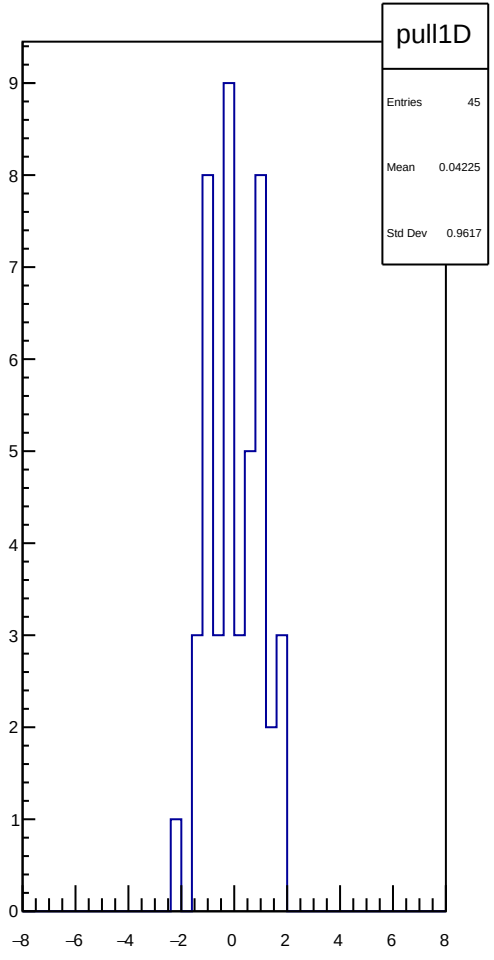
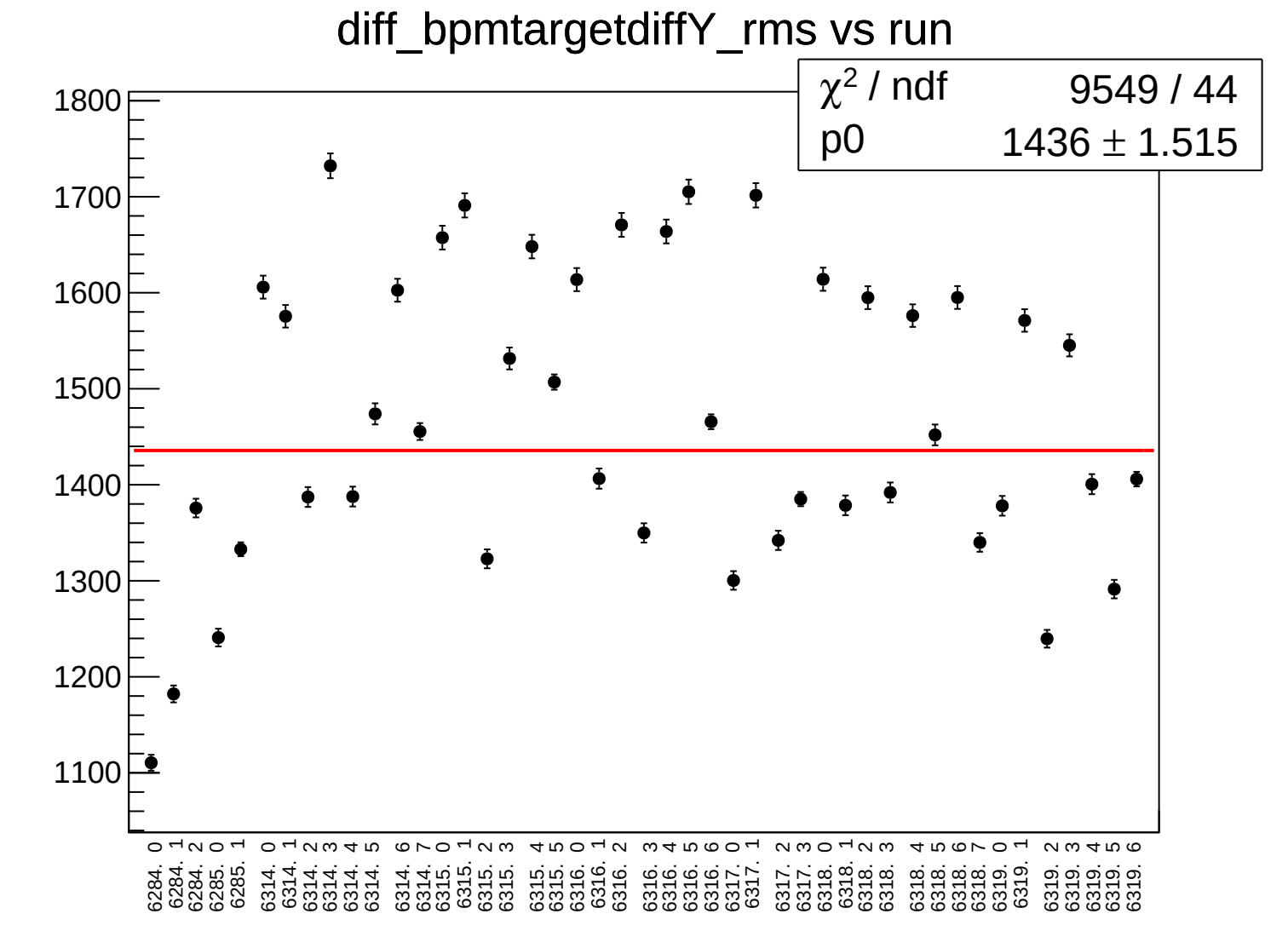
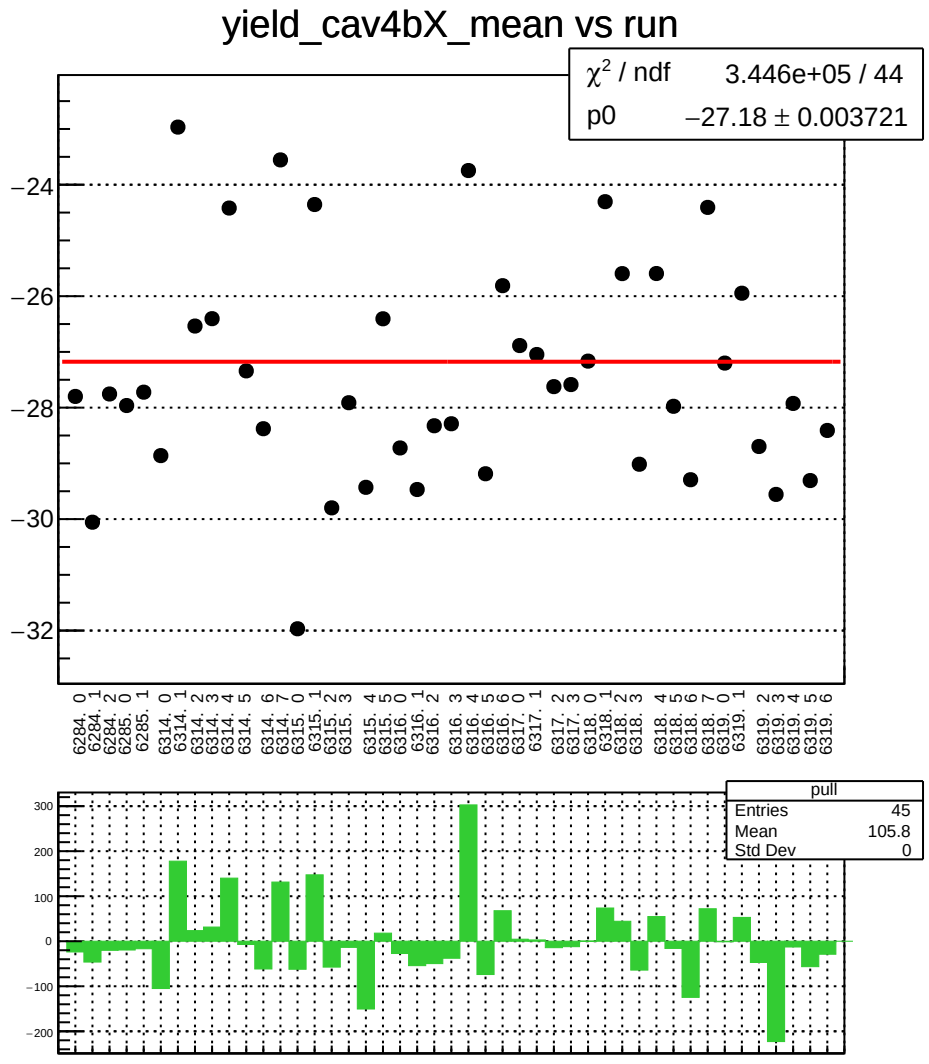
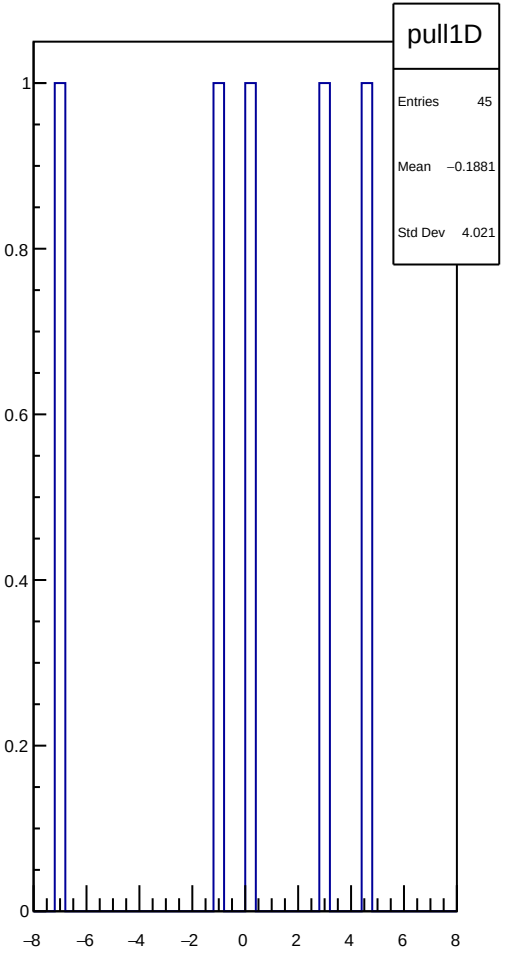
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

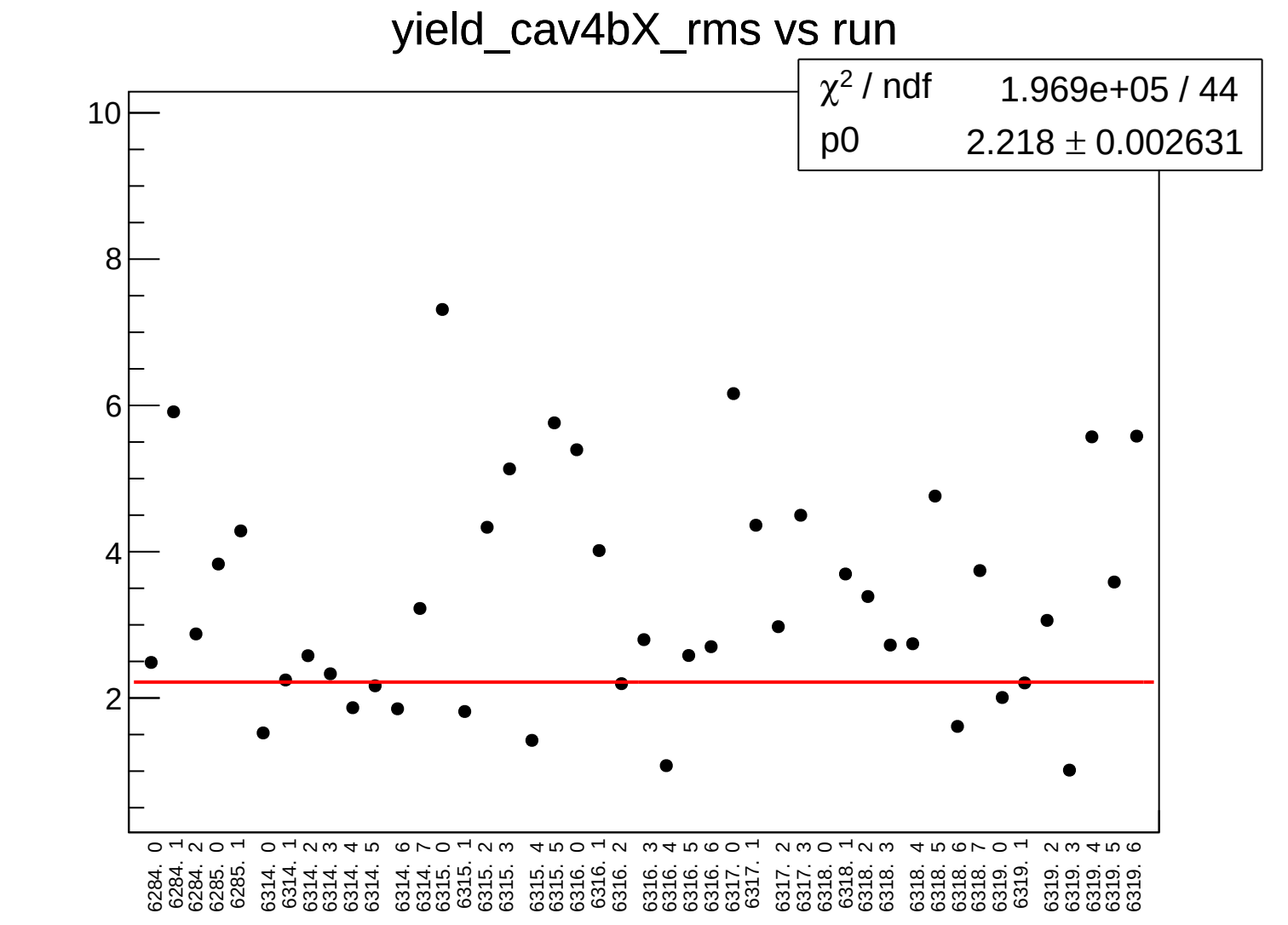

diff_bpmtargetdiffY_mean vs run
χ^2 / ndf 41.7 / 44
p0 0.08966 ± 2.143
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

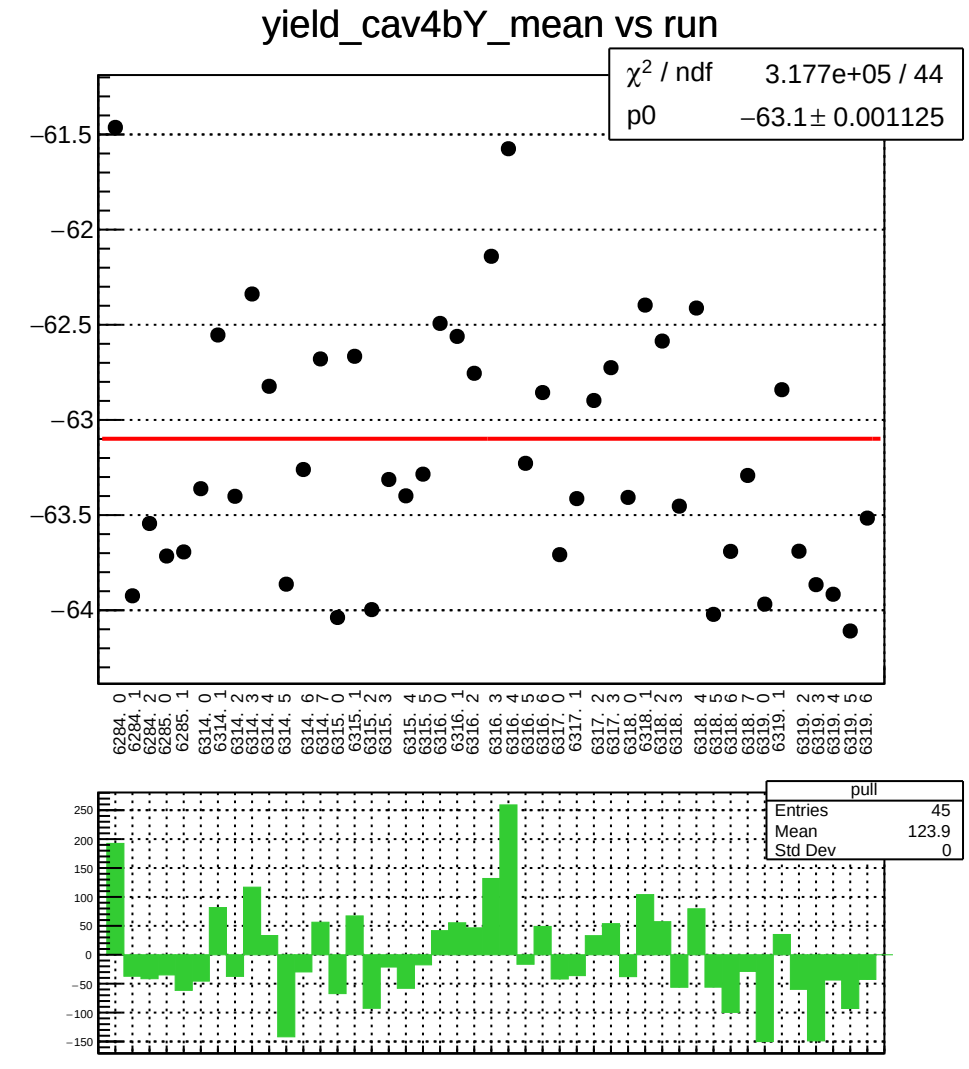

pull1D
Entries 45
Mean 0.04225
Std Dev 0.9617
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

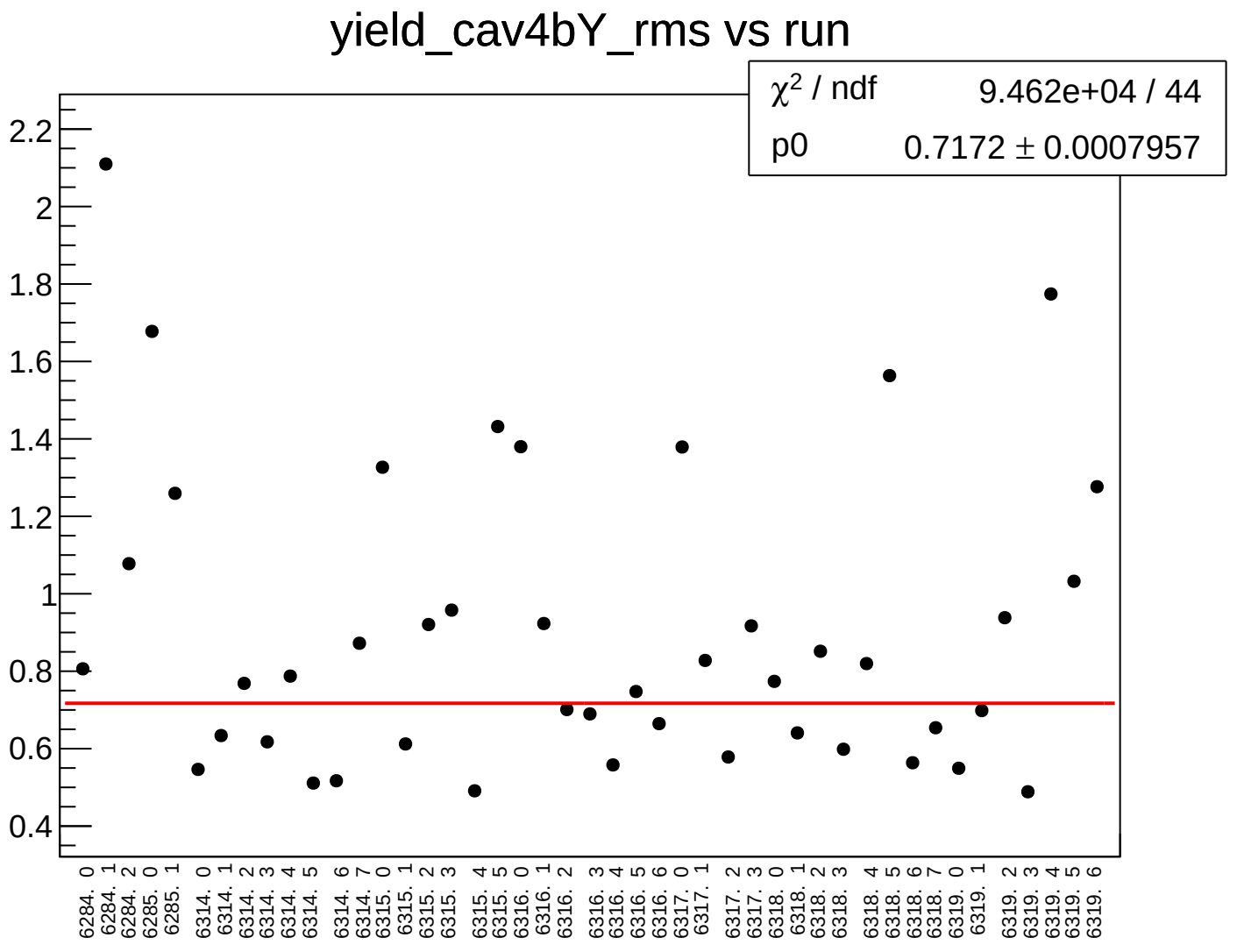

diff_bpmtargetdiffY_rms vs run
χ² / ndf 9549 / 44
p0 1436 ± 1.515
1800
1700
1600
1500
1400
1300
1200
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

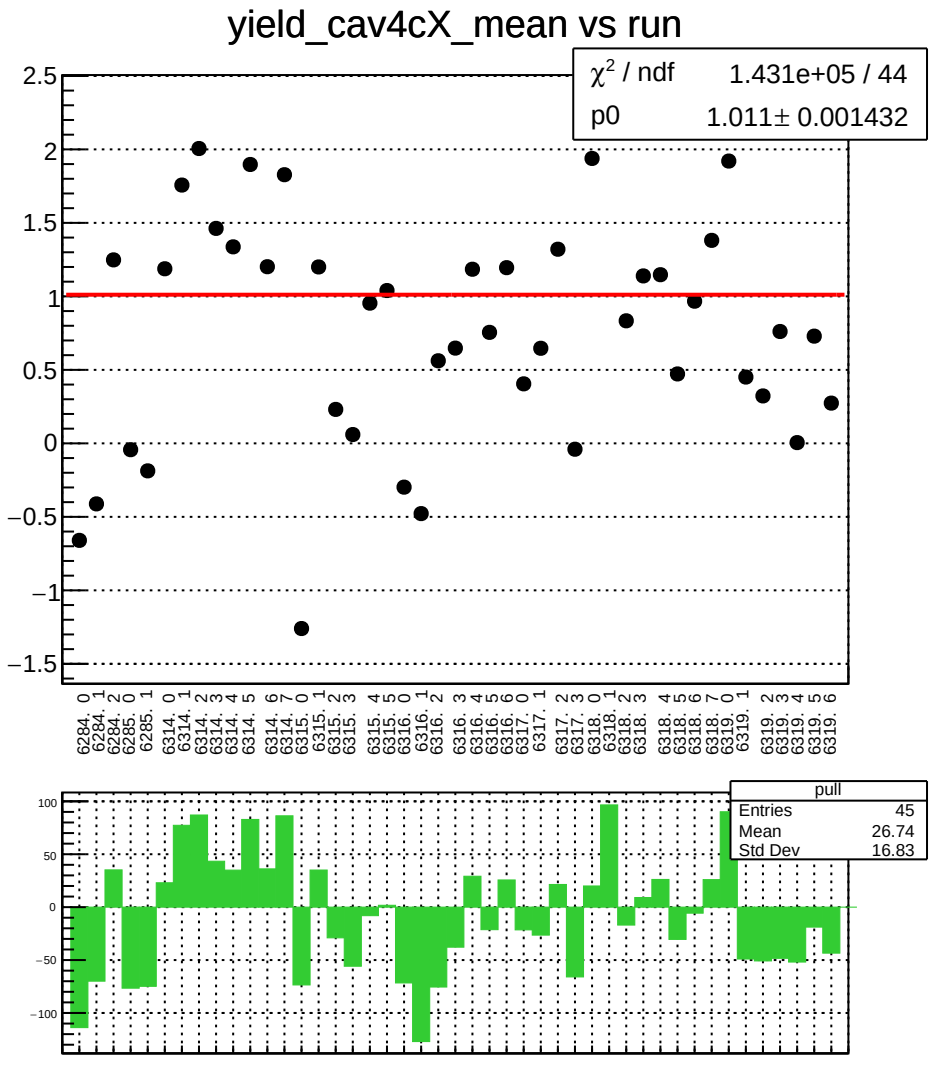

yield_cav4bX_mean vs run
χ² / ndf 3.446e+05 / 44
p0 −27.18 ± 0.003721
−24
−26
−28
−30
−32
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 105.8
Std Dev 0
300
200
100
0
−100
−200

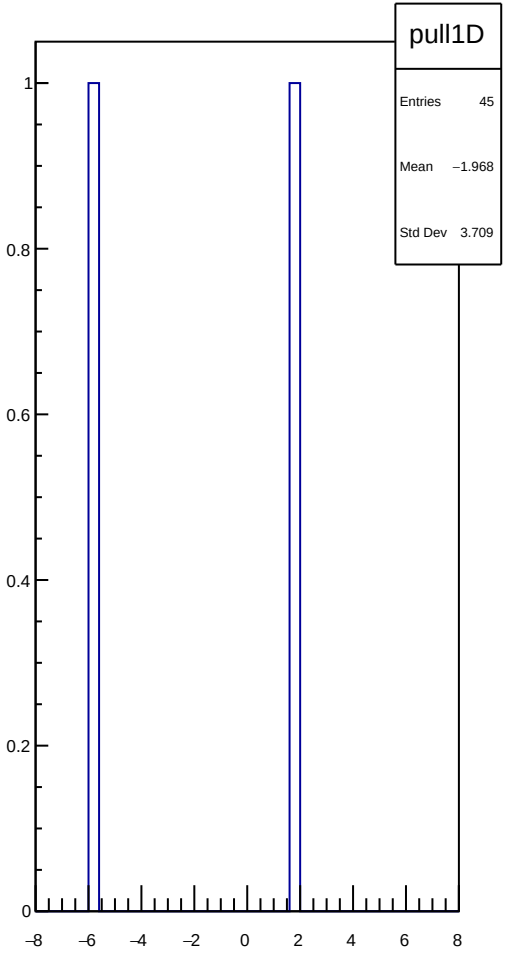

pull1D
Entries 45
Mean −0.1881
Std Dev 4.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

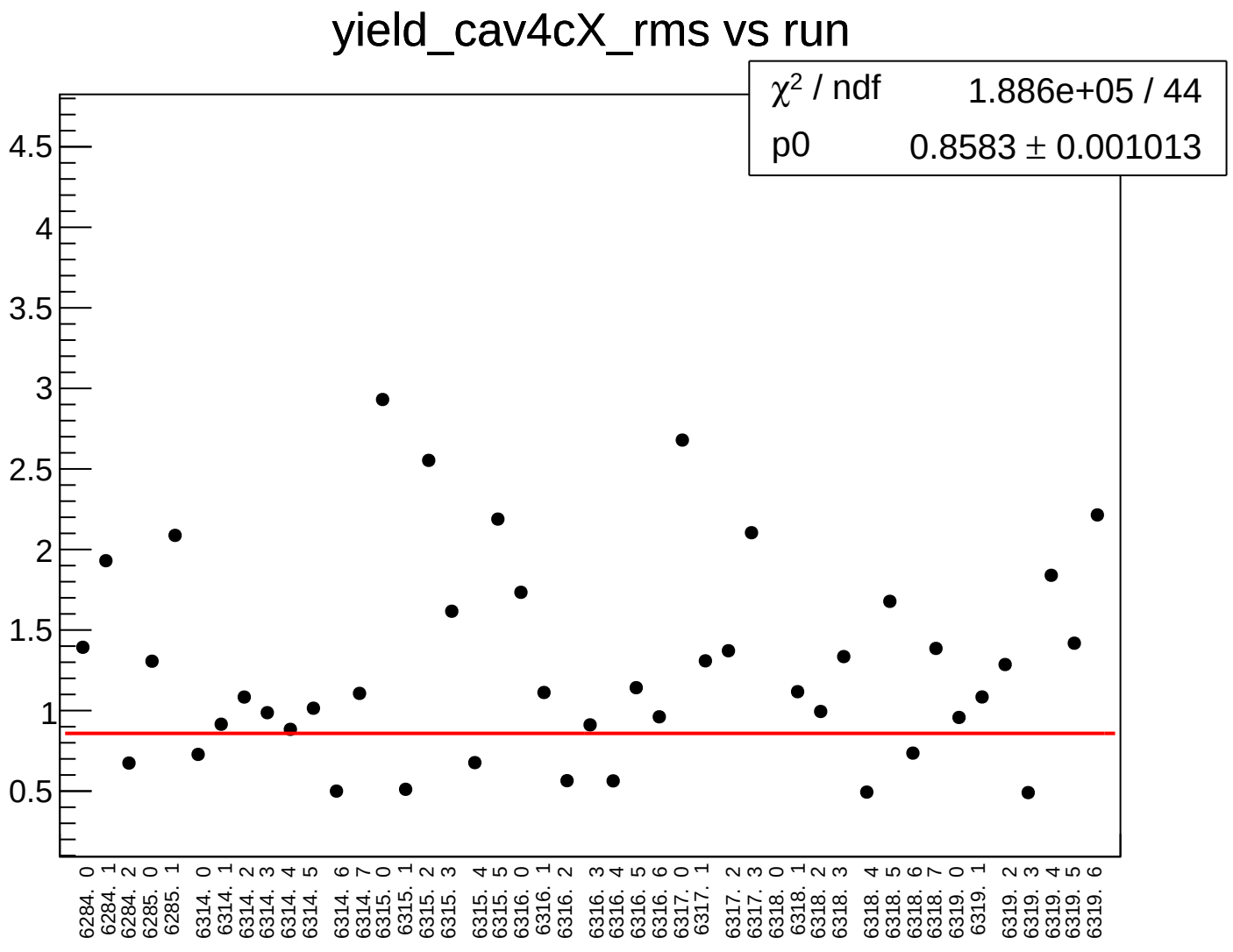

yield_cav4bX_rms vs run
χ² / ndf 1.969e+05 / 44
p0 2.218 ± 0.002631
10
8
6
4
2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

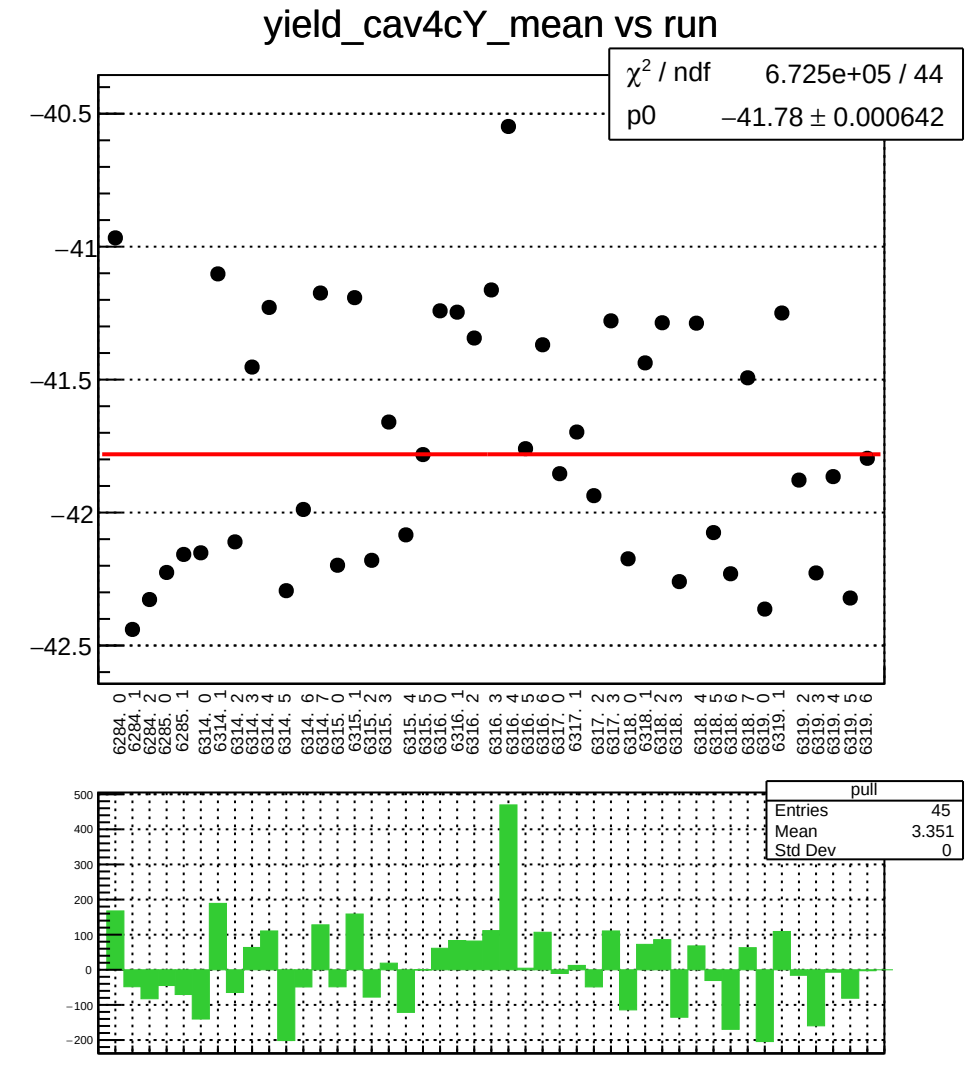

yield_cav4bY_mean vs run
χ² / ndf 3.177e+05 / 44
p0 −63.1 ± 0.001125
−61.5
−62
−62.5
−63
−63.5
−64
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 123.9
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

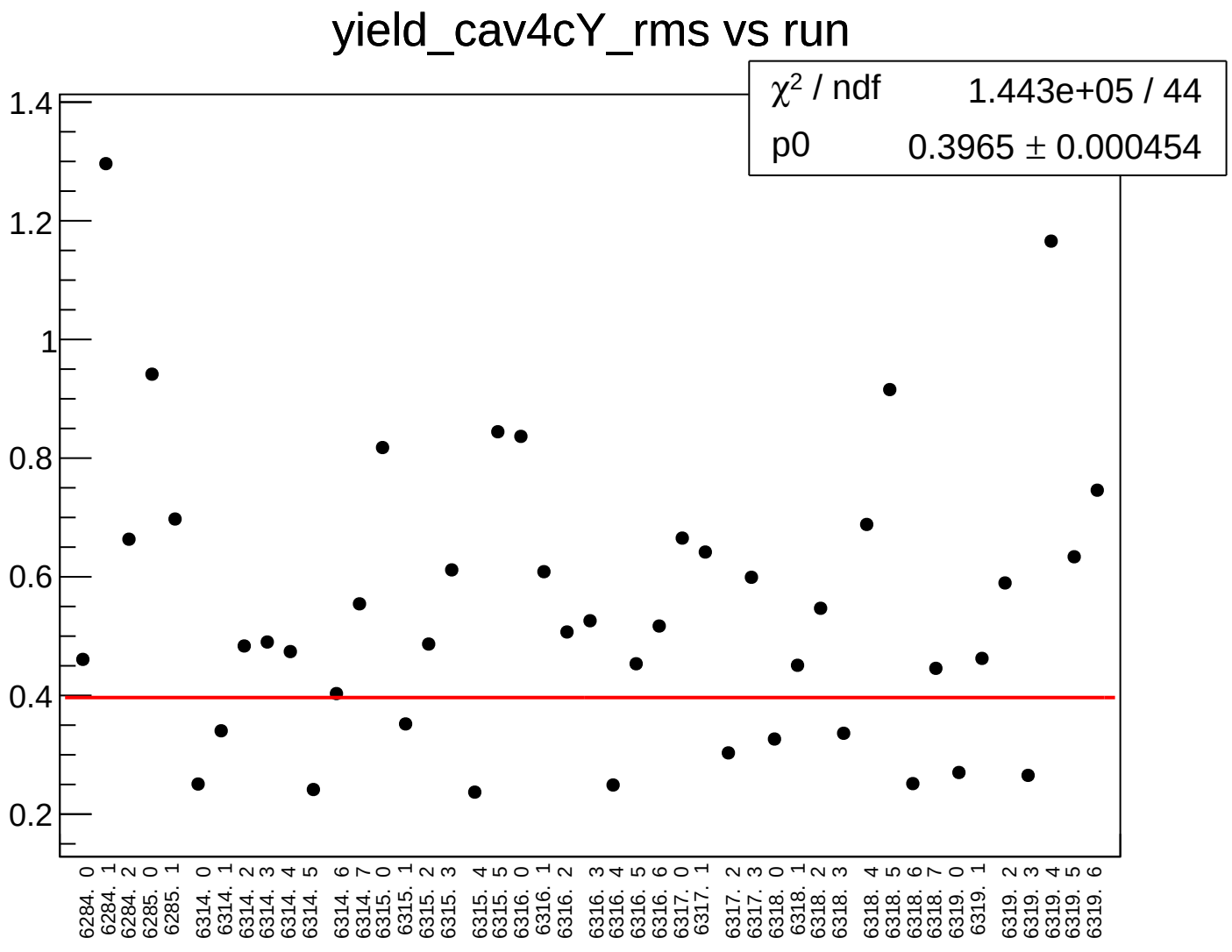

yield_cav4bY_rms vs run
χ² / ndf 9.462e+04 / 44
p0 0.7172 ± 0.0007957
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

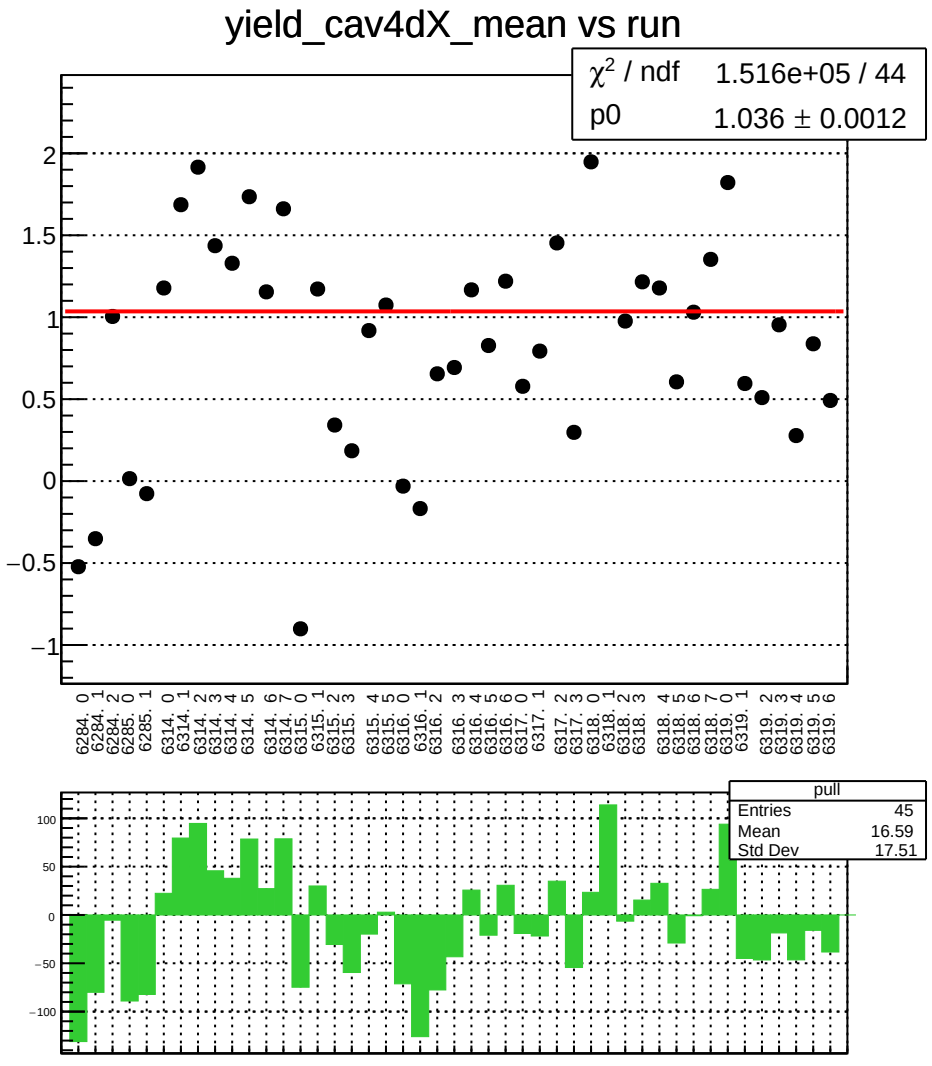

yield_cav4cX_mean vs run
χ² / ndf 1.431e+05 / 44
p0 1.011± 0.001432
pull
Entries 45
Mean 26.74
Std Dev 16.83

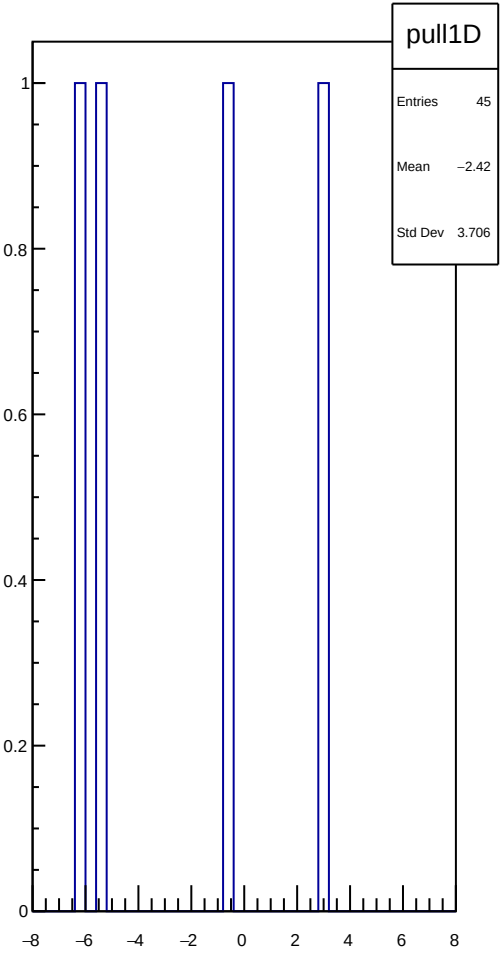

pull1D
Entries 45
Mean −1.968
Std Dev 3.709


yield_cav4cX_rms vs run
χ² / ndf 1.886e+05 / 44
p0 0.8583 ± 0.001013
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

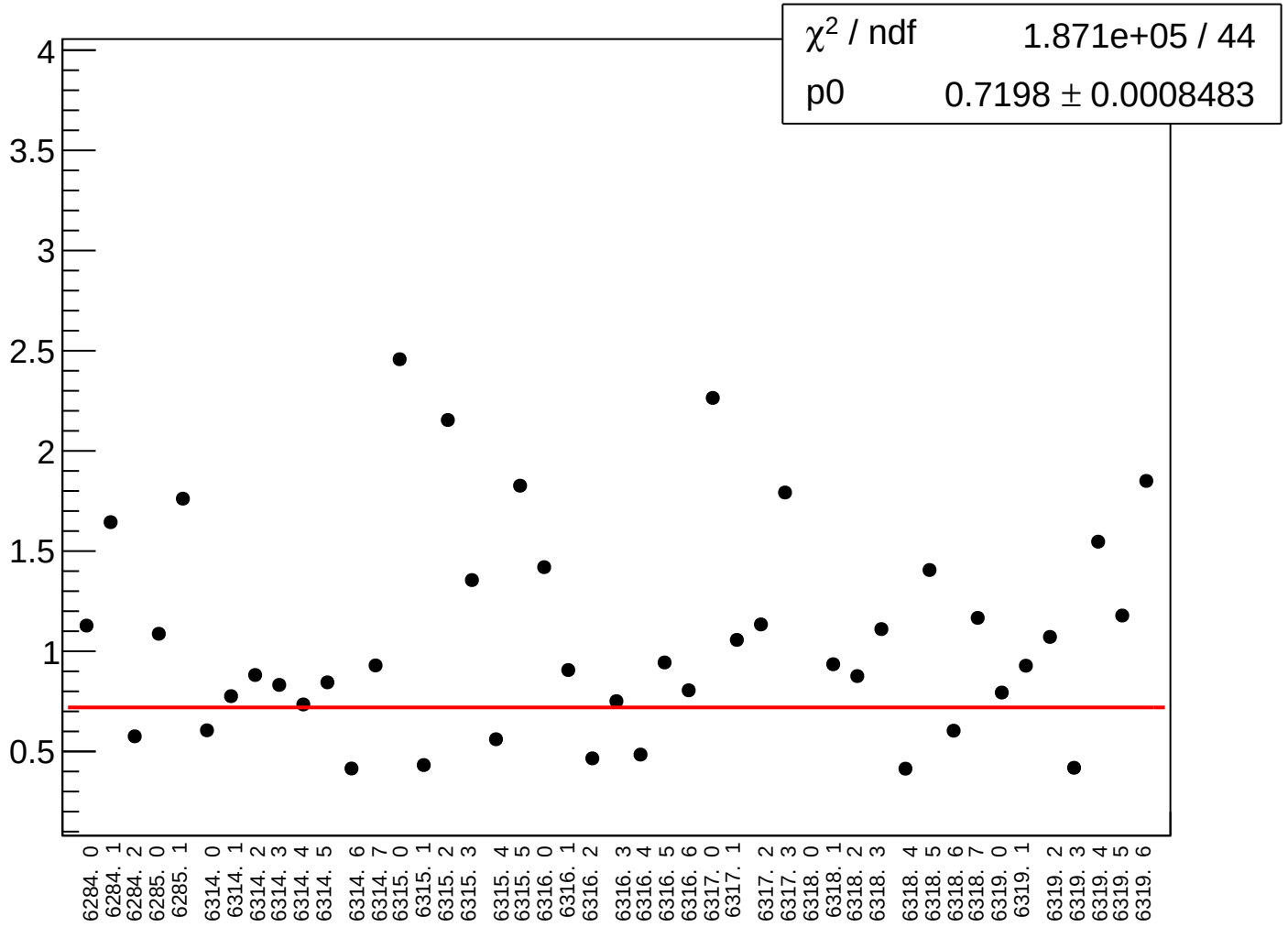

yield_cav4cY_mean vs run
χ² / ndf 6.725e+05 / 44
p0 −41.78 ± 0.000642
−40.5
−41
−41.5
−42
−42.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3.351
Std Dev 0
500
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean −1.308
Std Dev 4.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

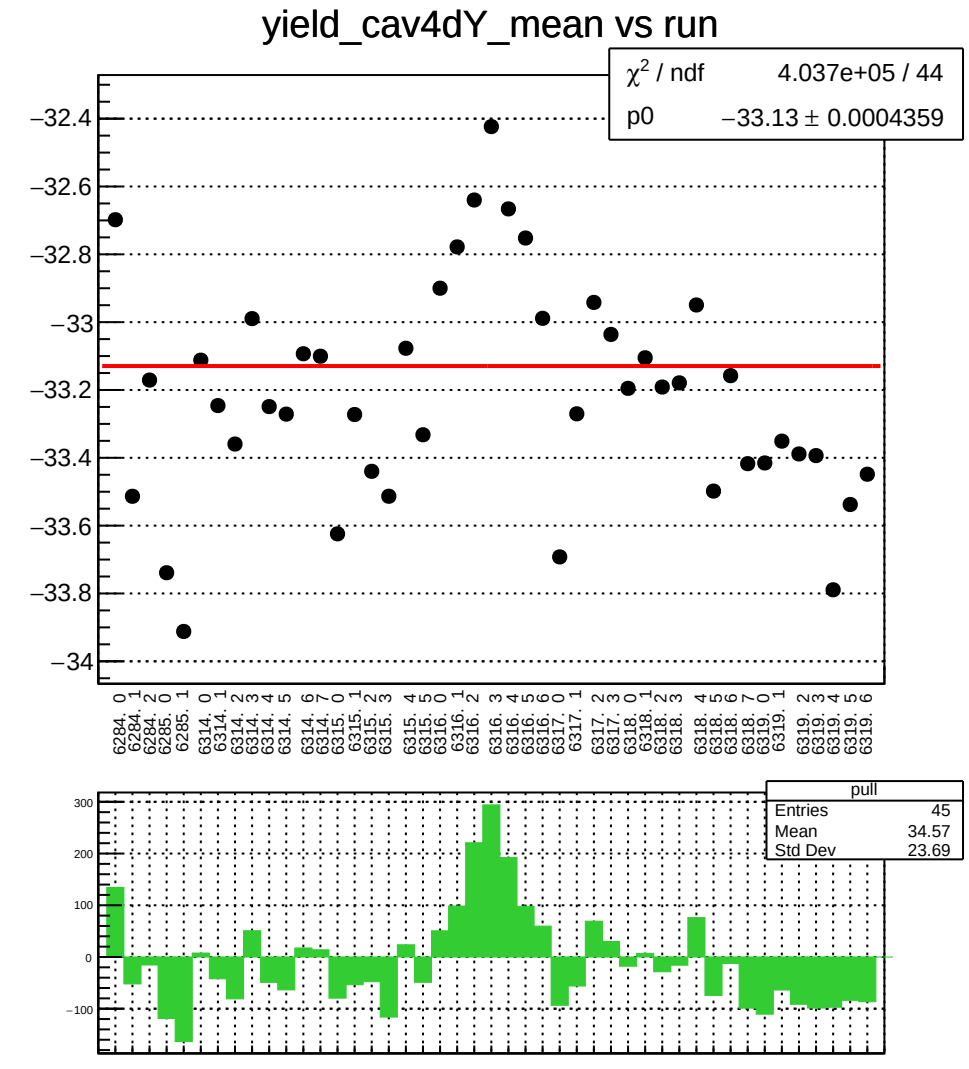

yield_cav4cY_rms vs run
χ² / ndf 1.443e+05 / 44
p0 0.3965 ± 0.000454
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

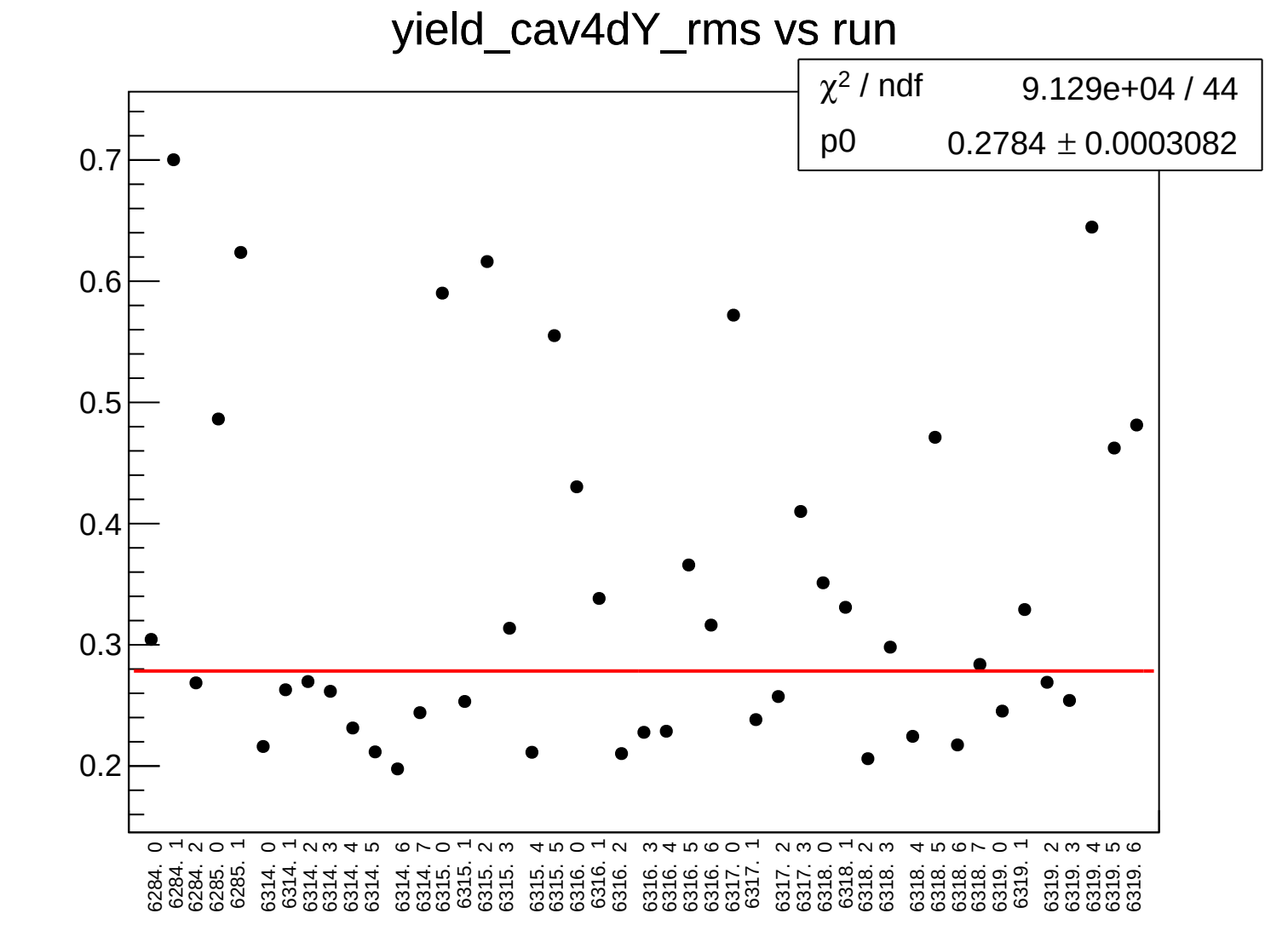

yield_cav4dX_mean vs run
χ² / ndf 1.516e+05 / 44
p0 1.036 ± 0.0012
2
1.5
1
0.5
0
−0.5
−1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 16.59
Std Dev 17.51
100
50
0
−50
−100

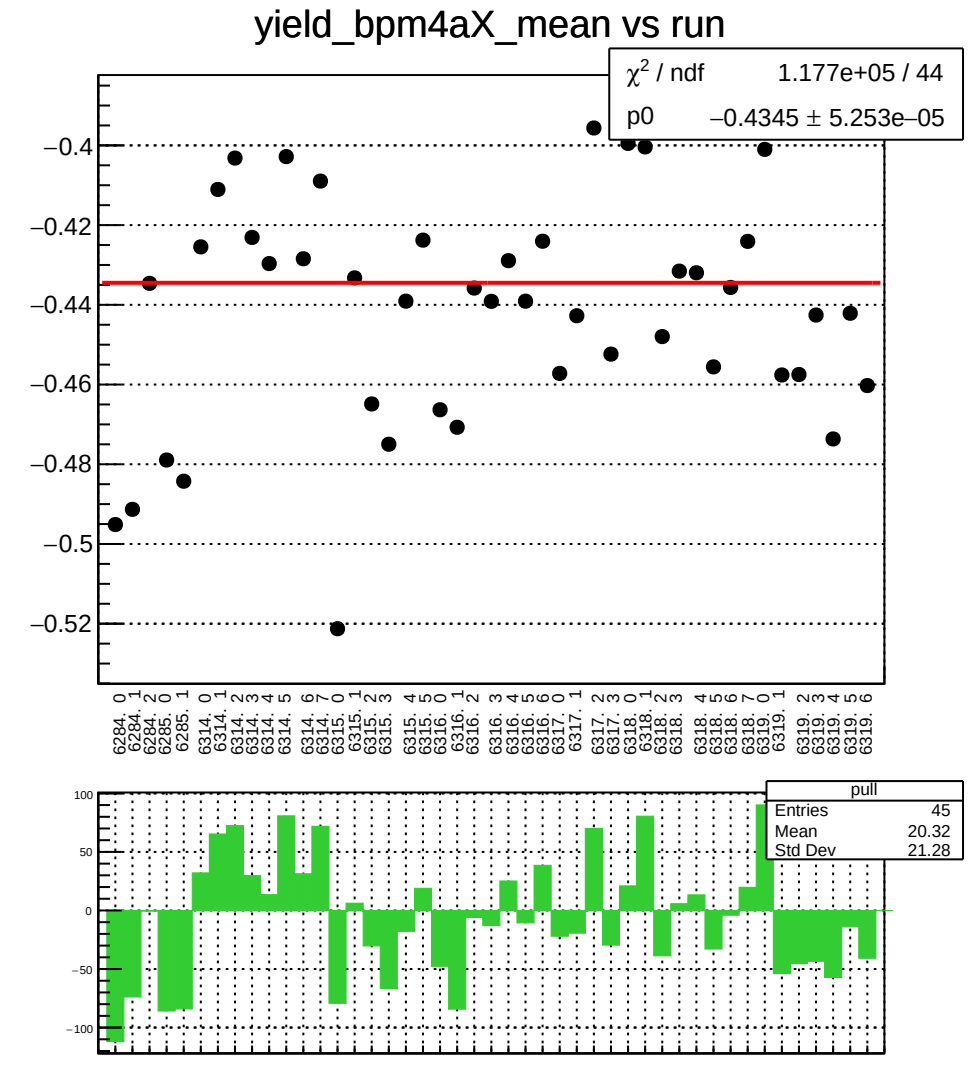

pull1D
Entries 45
Mean −2.42
Std Dev 3.706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

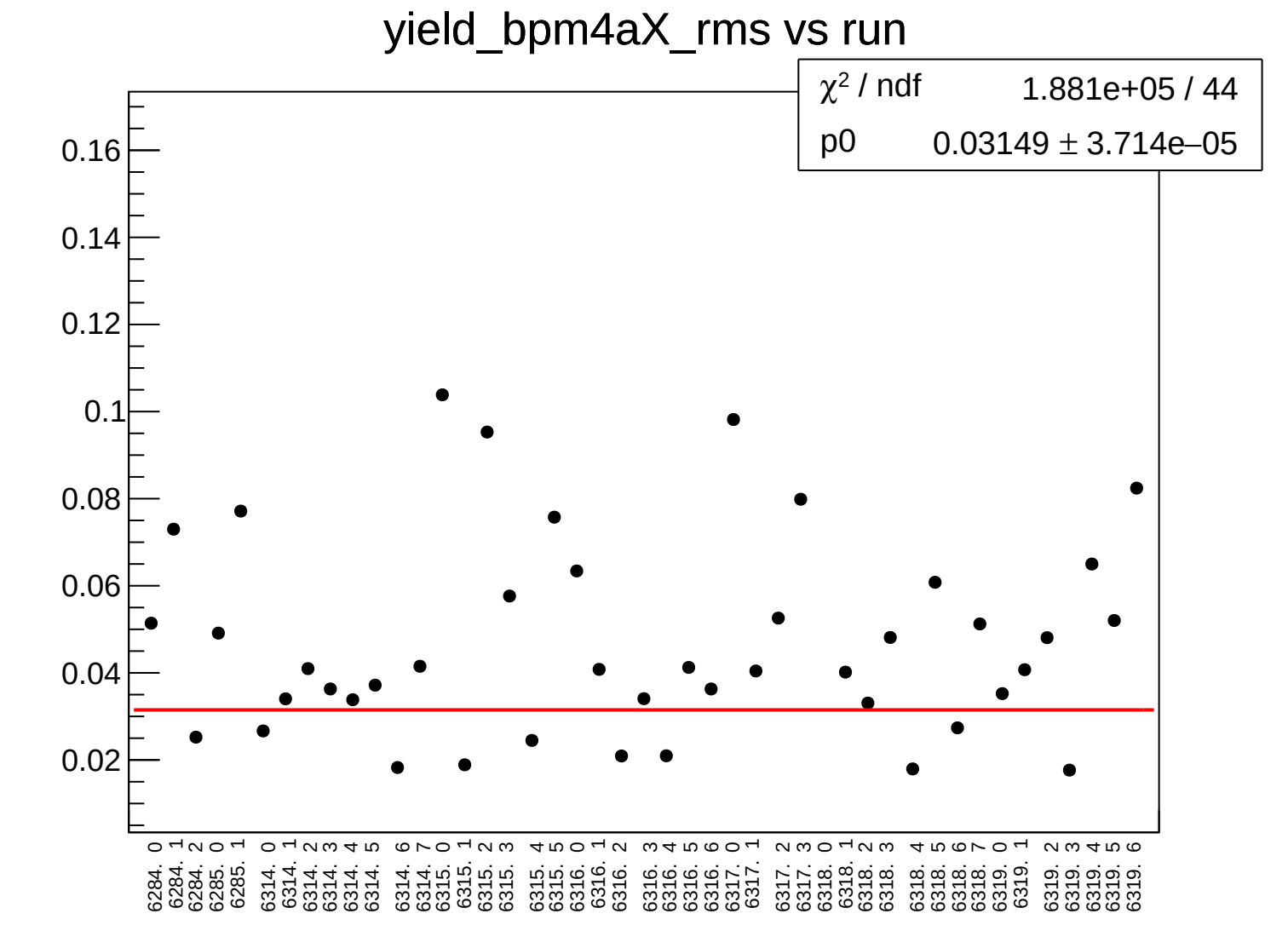
yield_cav4dX_rms vs run

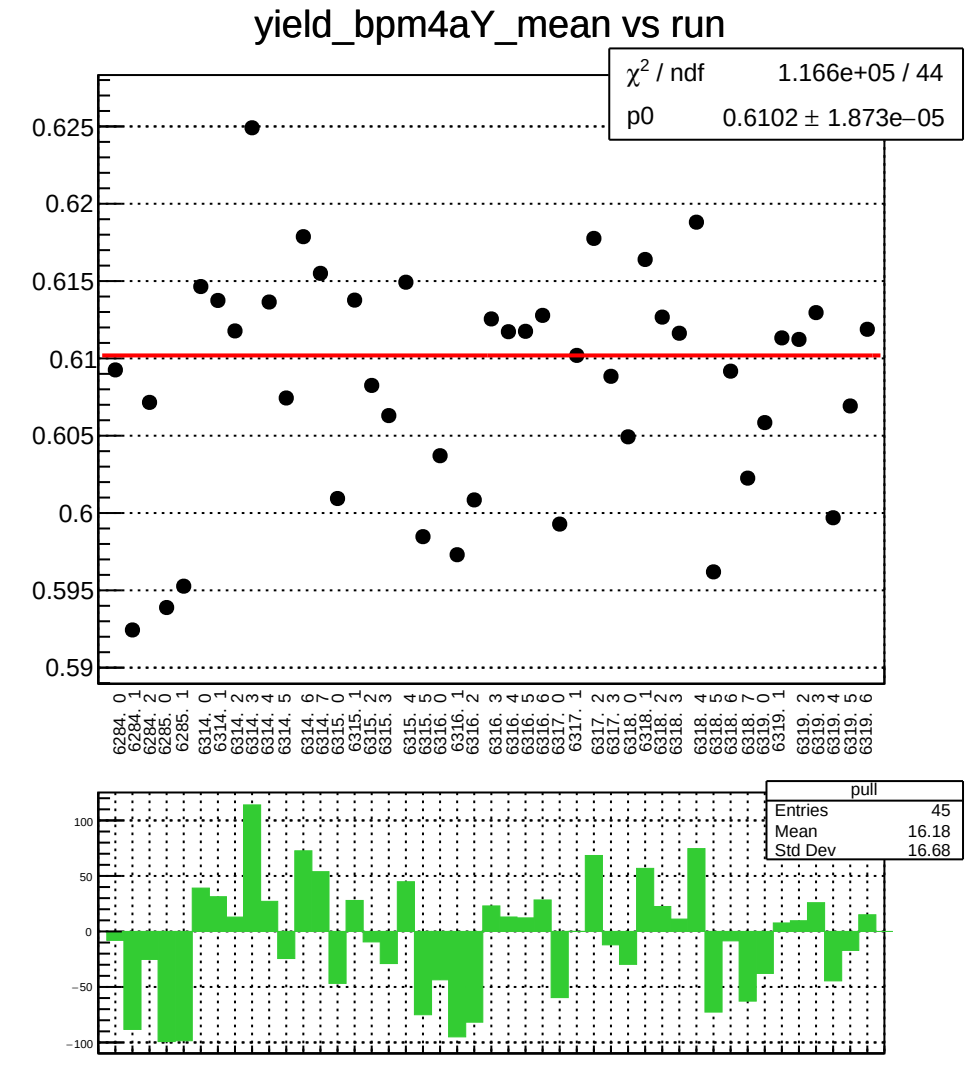


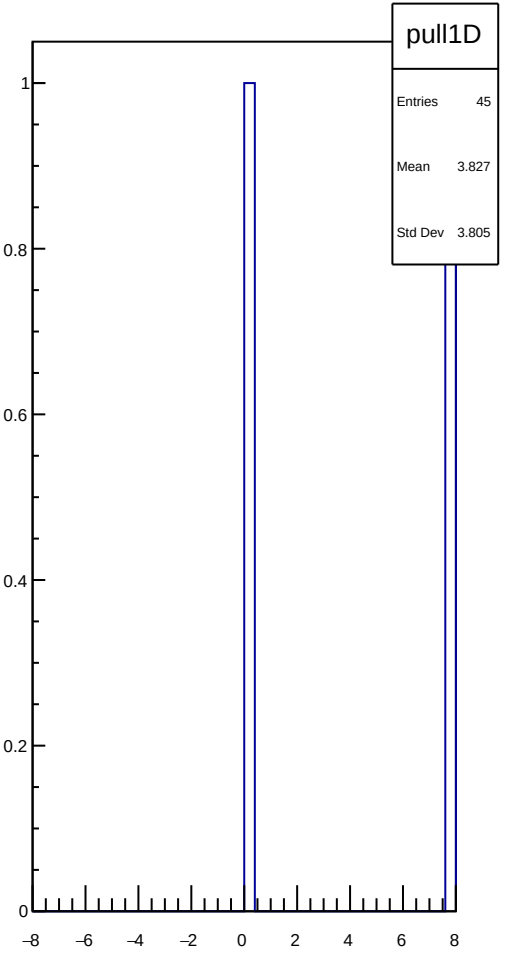

yield_cav4dY_mean vs run
χ² / ndf 4.037e+05 / 44
p0 −33.13 ± 0.0004359
−32.4
−32.6
−32.8
−33
−33.2
−33.4
−33.6
−33.8
−34
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 34.57
Std Dev 23.69
300
200
100
0
−100
pull1D
Entries 45
Mean 7.277
Std Dev 0.2998
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

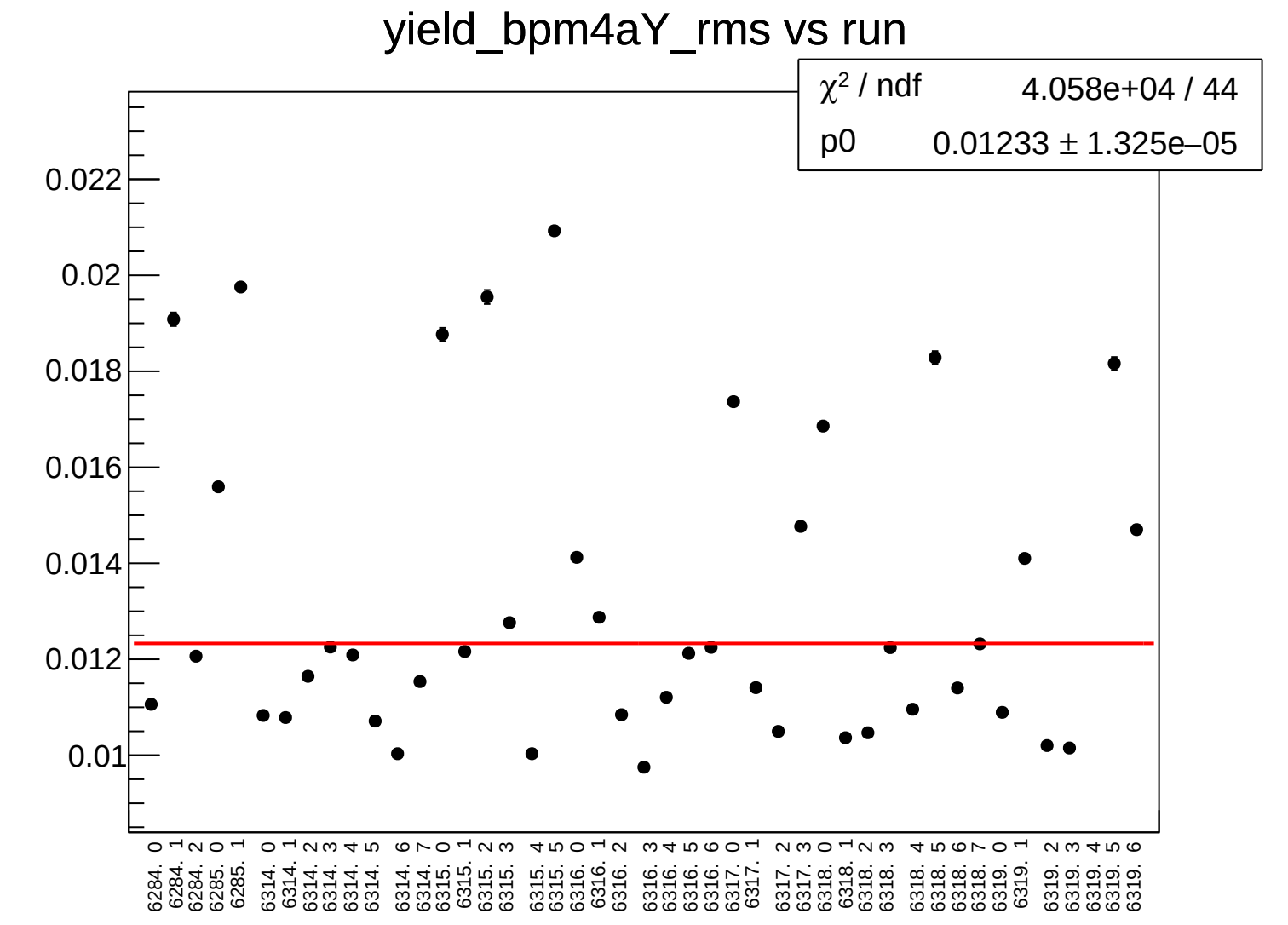

yield_cav4dY_rms vs run
χ² / ndf 9.129e+04 / 44
p0 0.2784 ± 0.0003082
0.7
0.6
0.5
0.4
0.3
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm4aX_mean vs run
χ² / ndf 1.177e+05 / 44
p0 −0.4345 ± 5.253e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.32
Std Dev 21.28
100
50
0
−50
−100
pull1D
Entries 45
Mean 0.2731
Std Dev 4.981
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aX_rms vs run
χ² / ndf 1.881e+05 / 44
p0 0.03149 ± 3.714e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm4aY_mean vs run
χ² / ndf 1.166e+05 / 44
p0 0.6102 ± 1.873e−05
0.625
0.62
0.615
0.61
0.605
0.6
0.595
0.59
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 16.18
Std Dev 16.68
100
50
0
−50
−100


pull1D
Entries 45
Mean 3.827
Std Dev 3.805
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 4.058e+04 / 44
p0 0.01233 ± 1.325e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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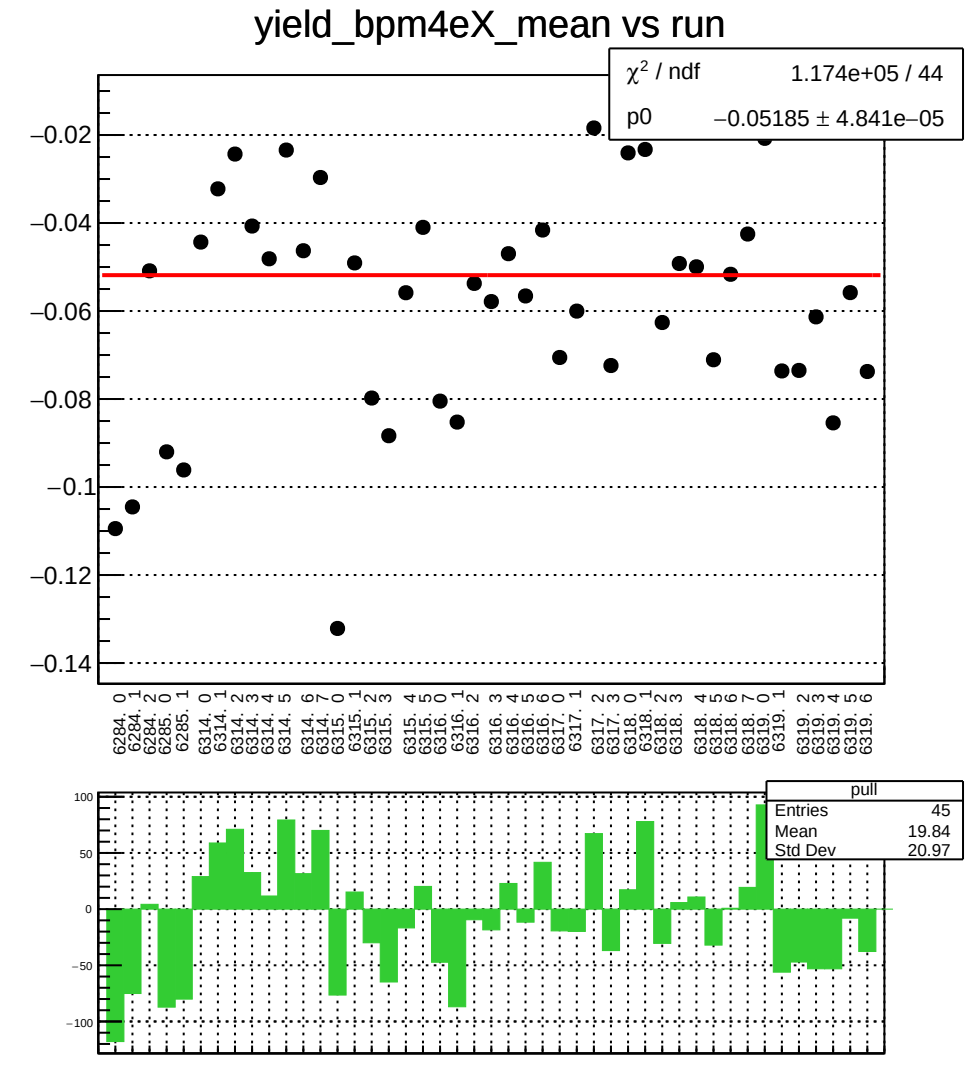
yield_bpm4eX_mean vs run
χ² / ndf 1.174e+05 / 44
p0 −0.05185 ± 4.841e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
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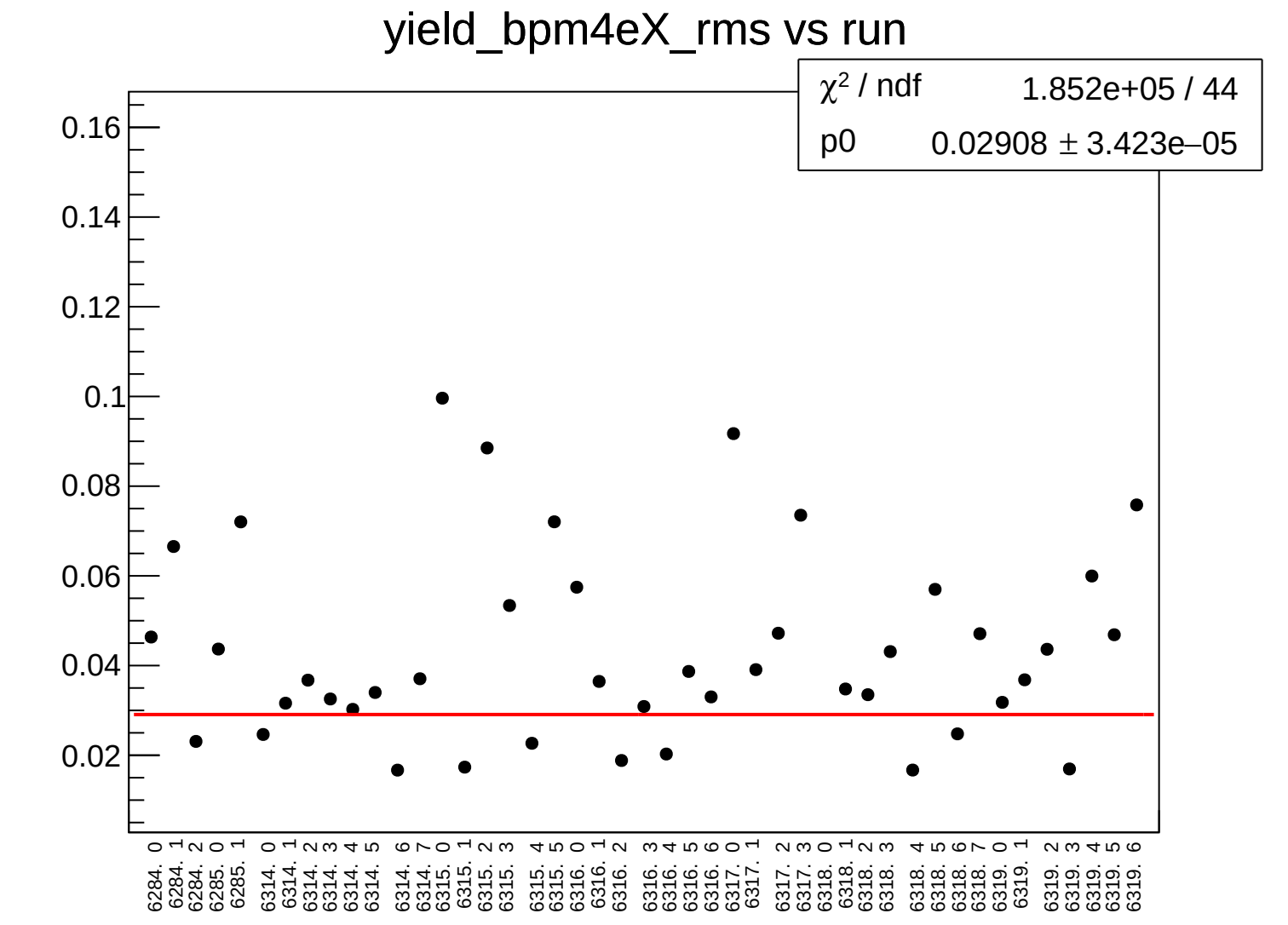
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 19.84
Std Dev 20.97
100
50
0
−50
−100
pull1D
Entries 45
Mean 3.614
Std Dev 2.123
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eX_rms vs run
χ² / ndf 1.852e+05 / 44
p0 0.02908 ± 3.423e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
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6319. 3
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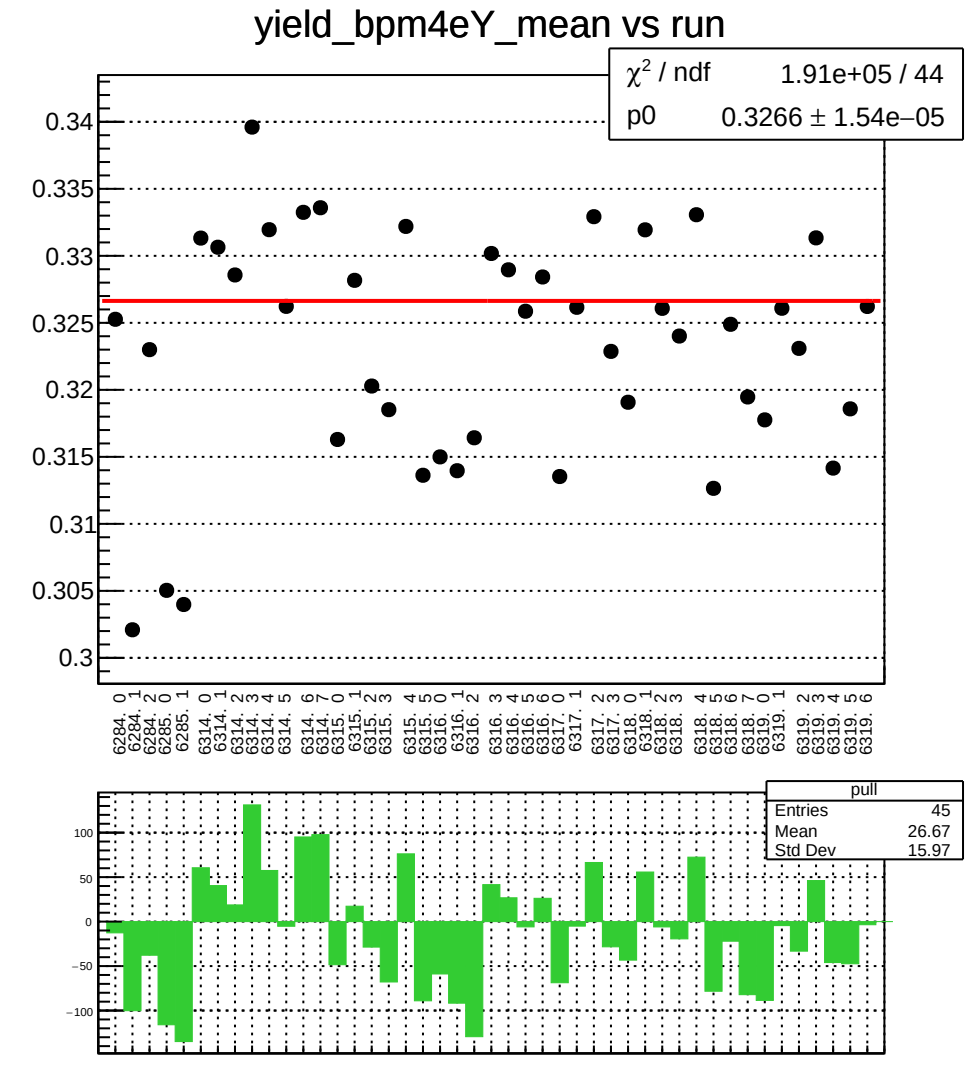
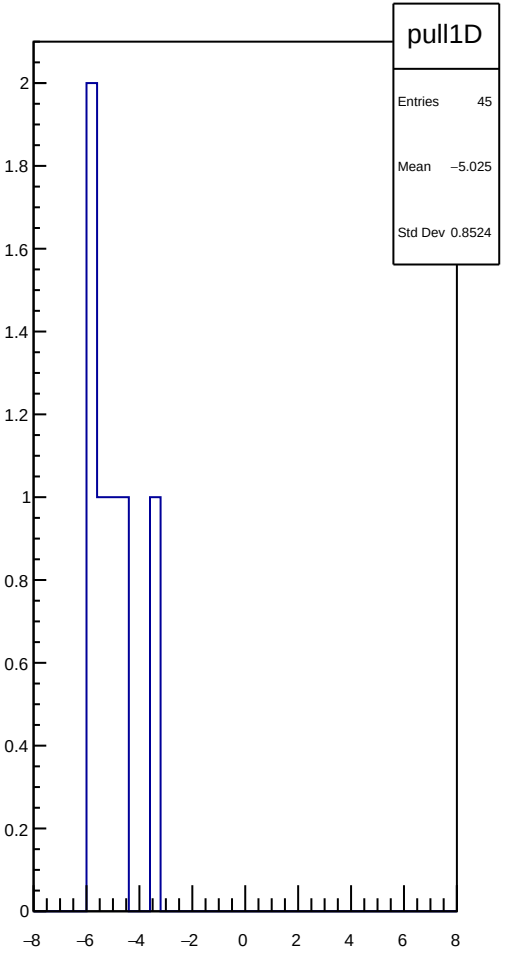
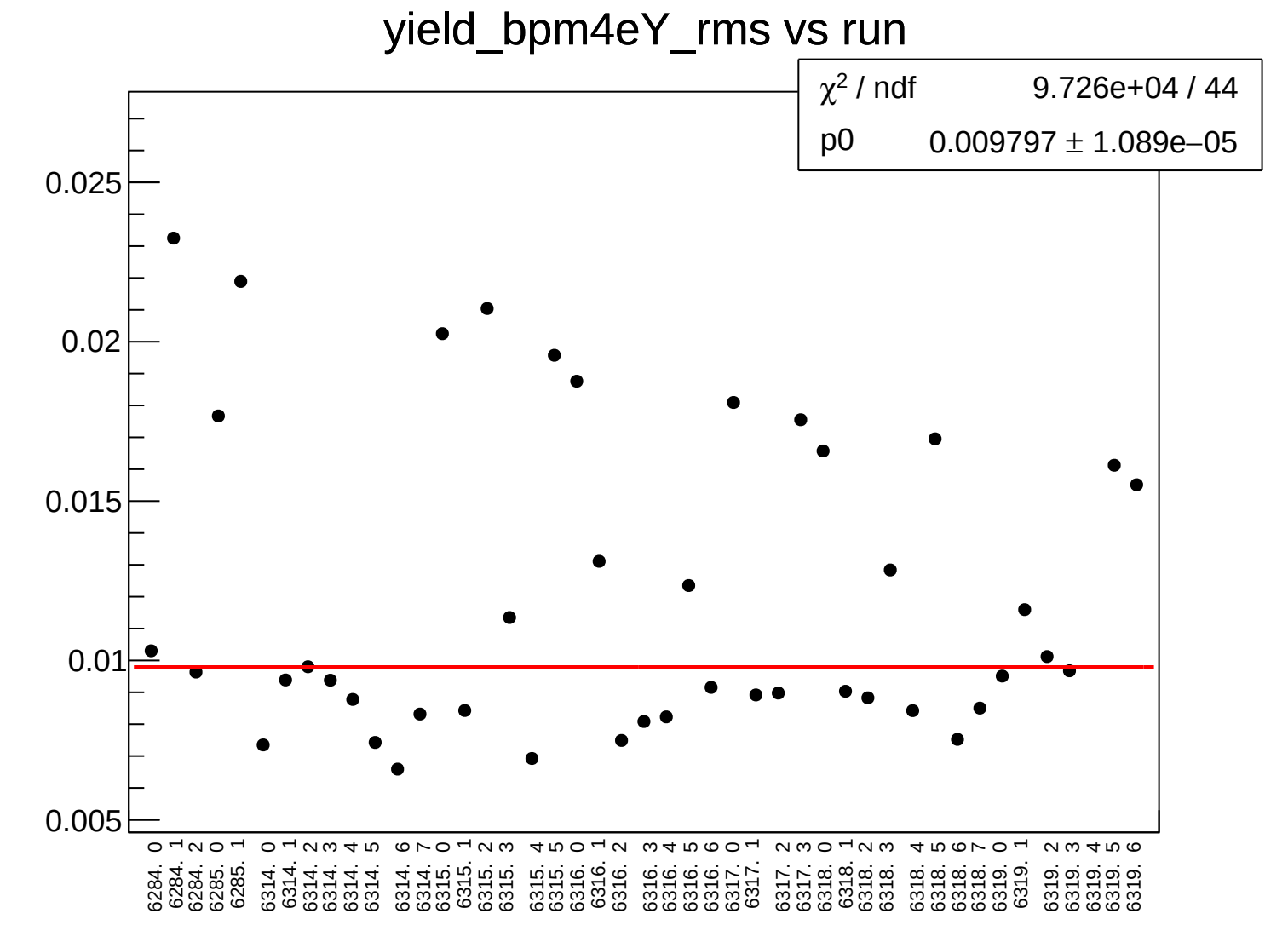
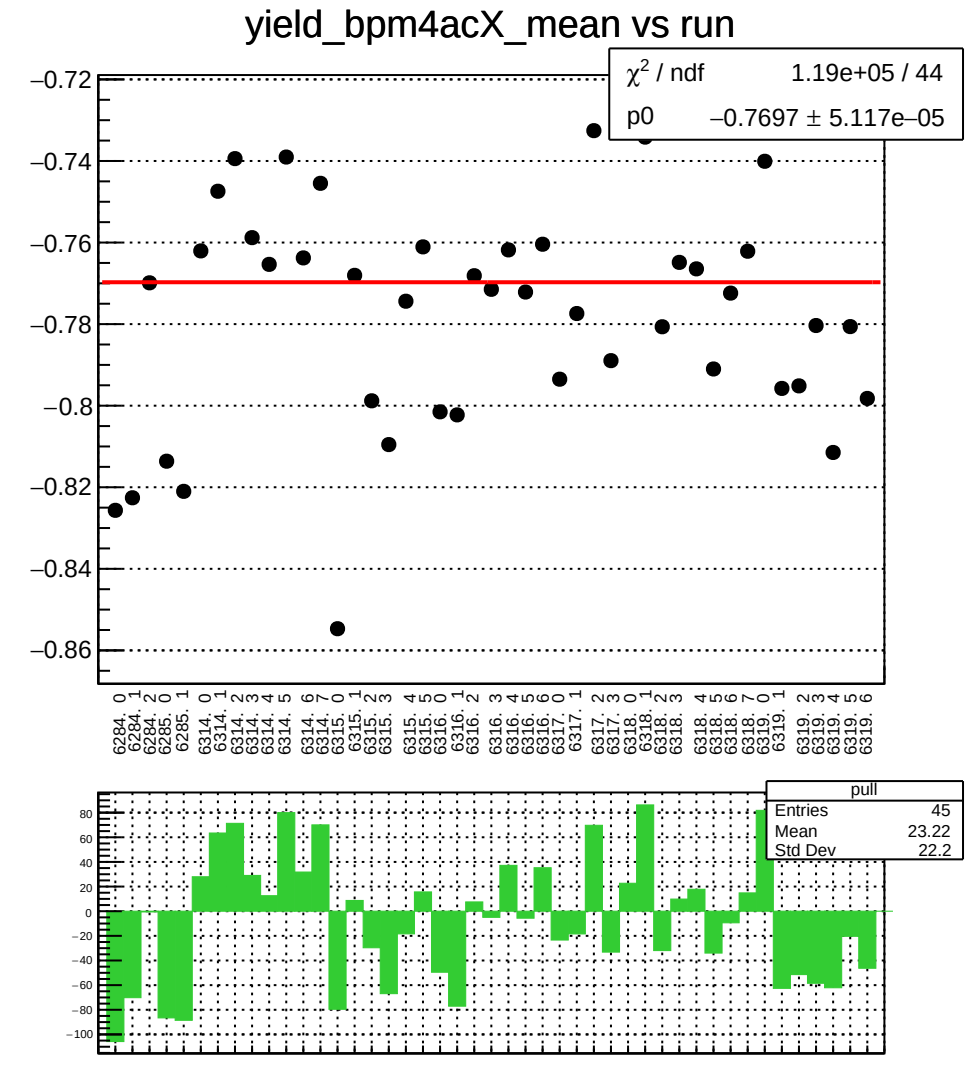
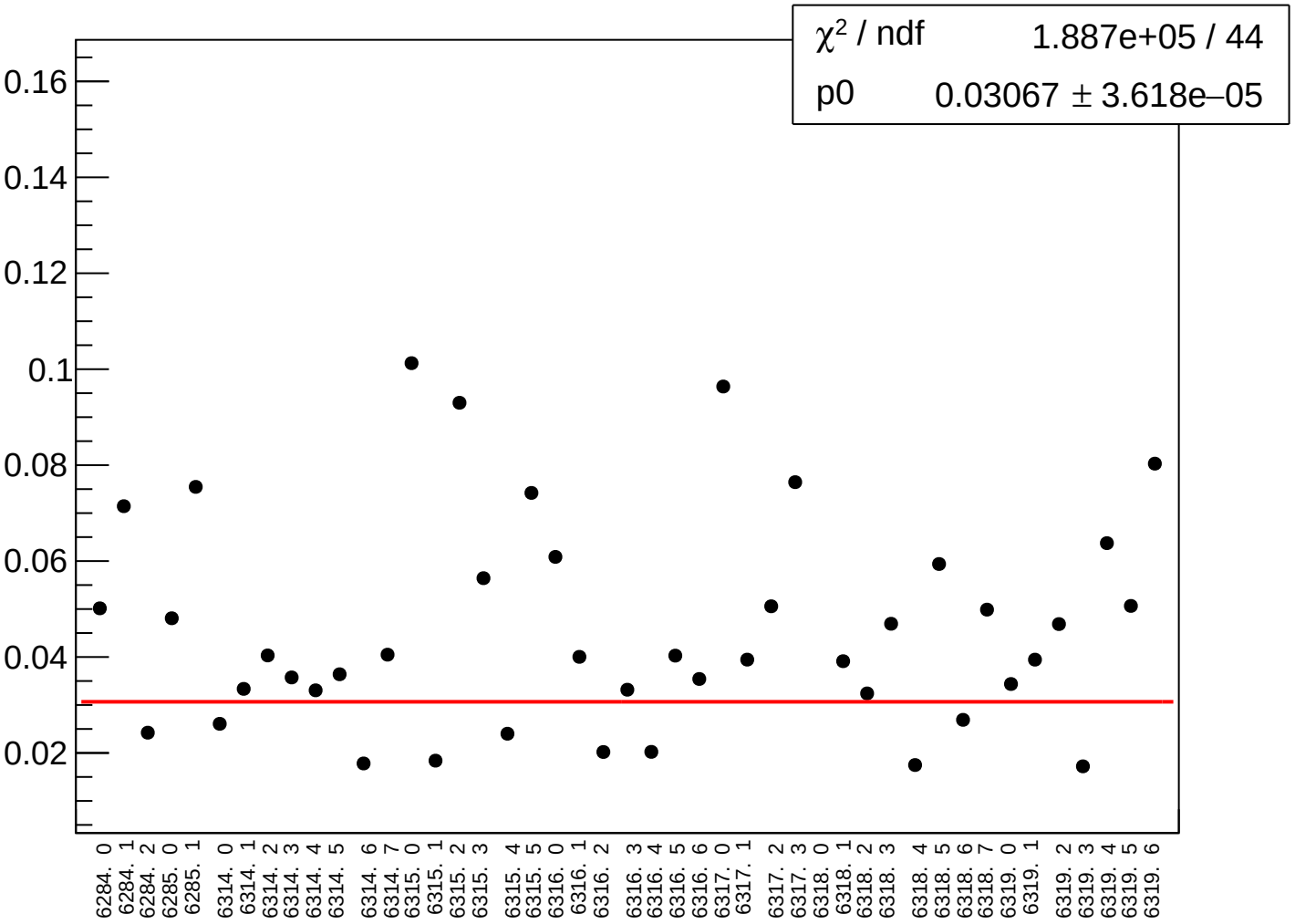
6319. 5
6319. 6

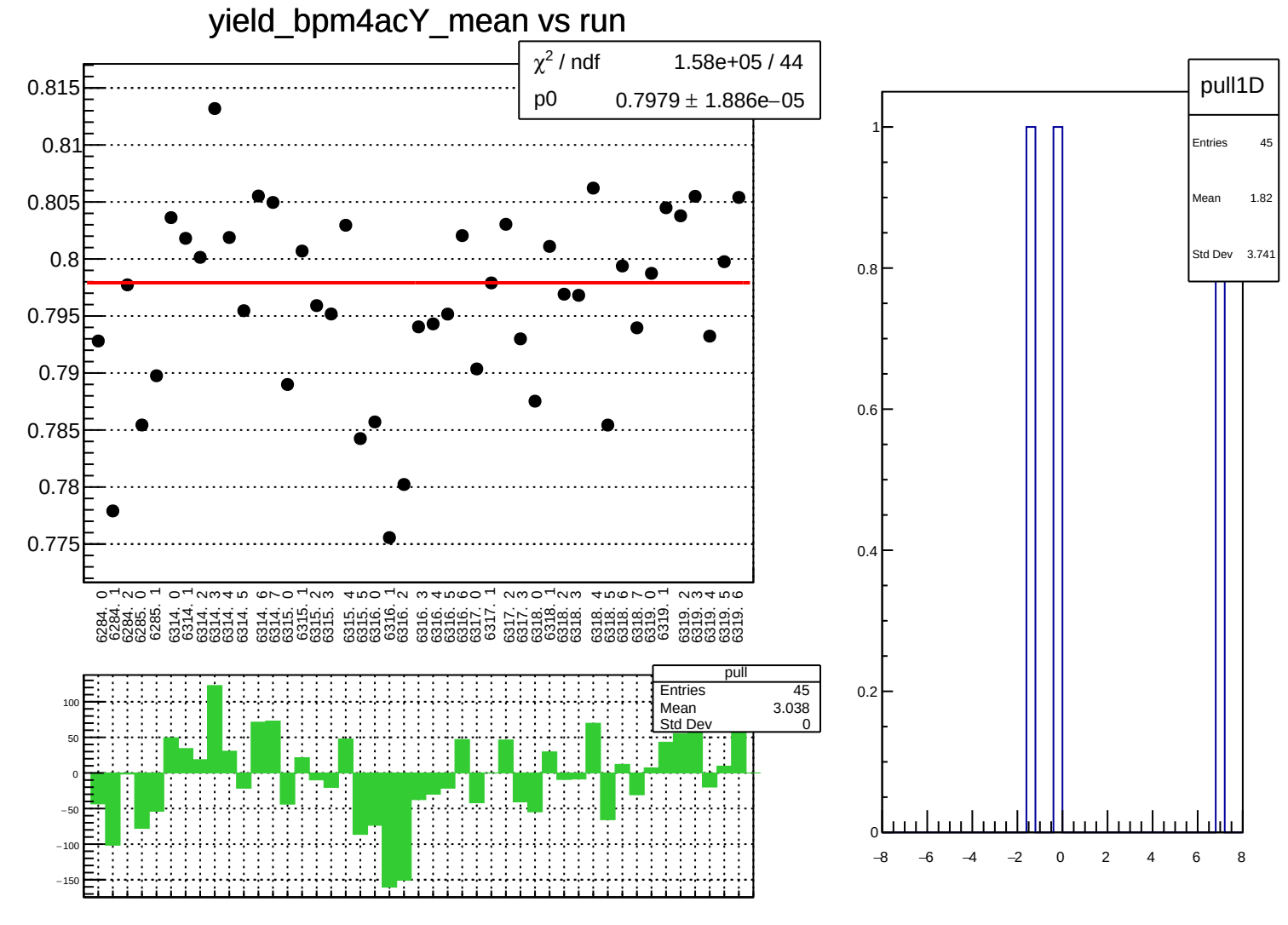

yield_bpm4eY_mean vs run
χ² / ndf 1.91e+05 / 44
p0 0.3266 ± 1.54e−05
0.34
0.335
0.33
0.325
0.32
0.315
0.31
0.305
0.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.67
Std Dev 15.97
100
50
0
−50
−100

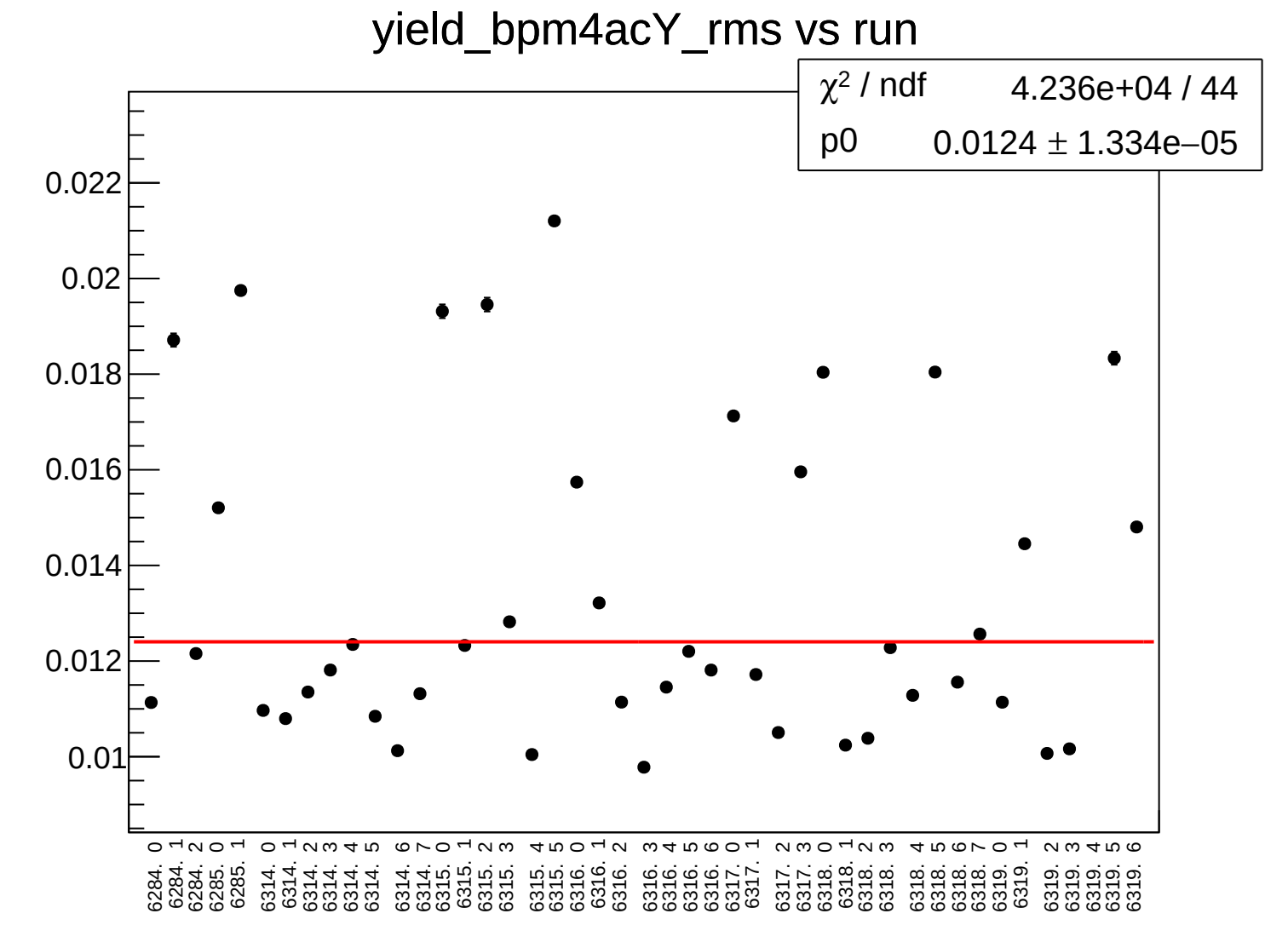

pull1D
Entries 45
Mean −5.025
Std Dev 0.8524
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

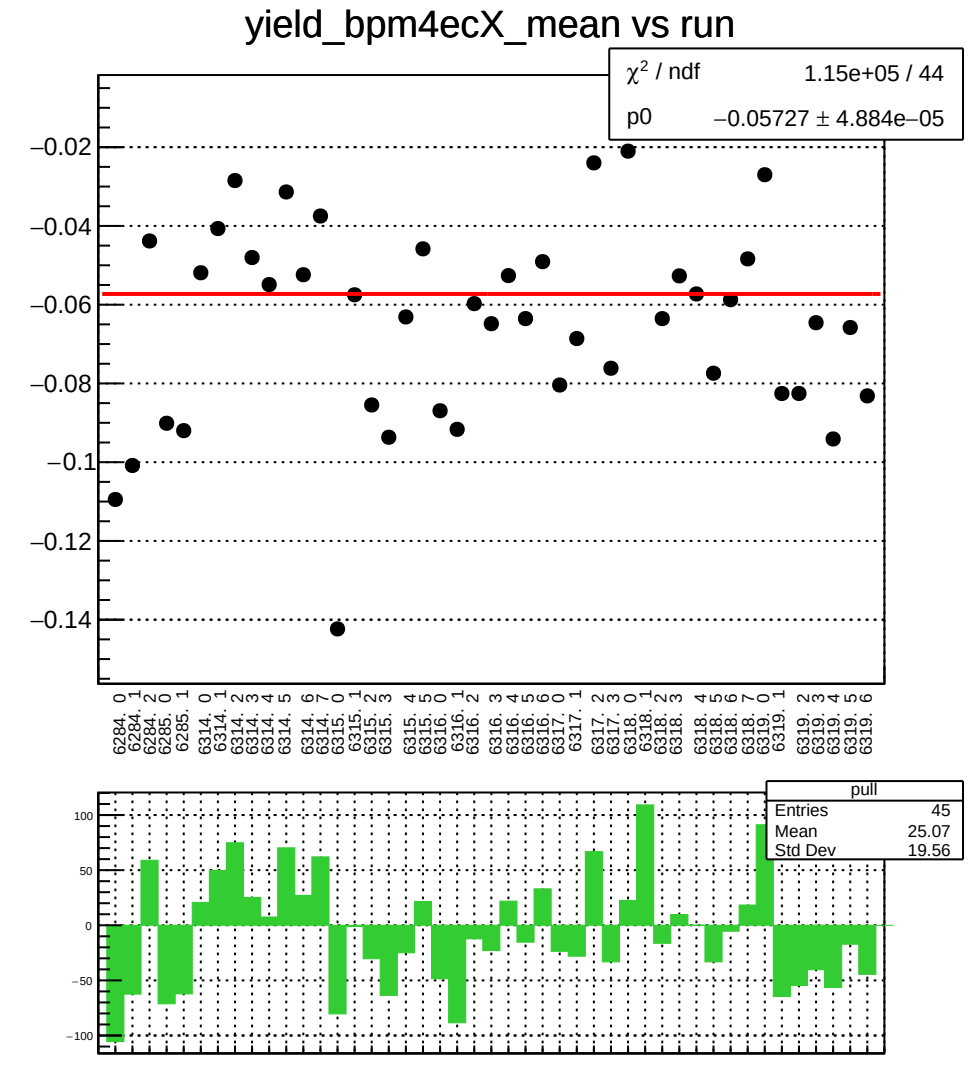

yield_bpm4eY_rms vs run
χ2 / ndf 9.726e+04 / 44
p0 0.009797 ± 1.089e−05
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

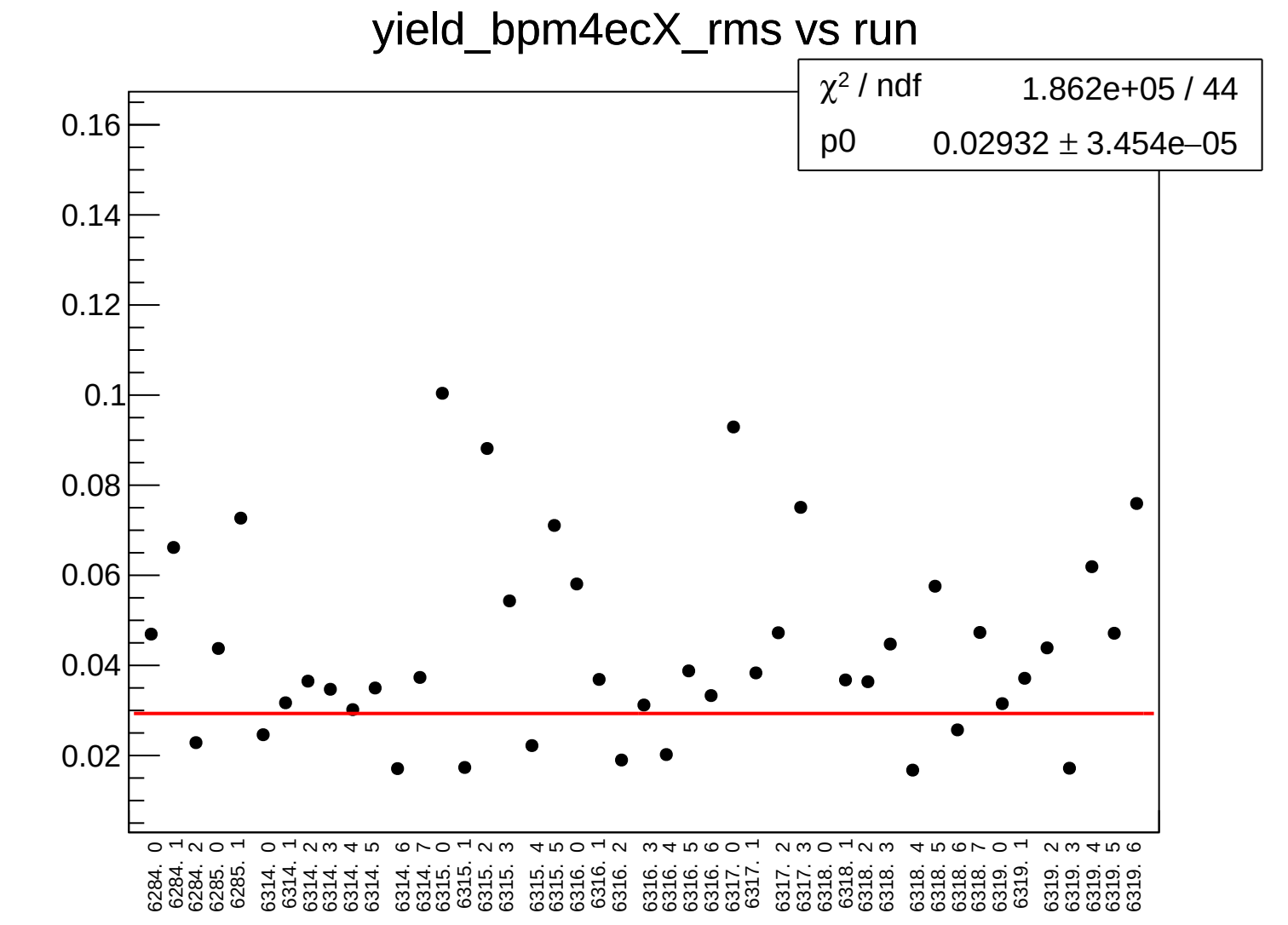

yield_bpm4acX_mean vs run
χ² / ndf 1.19e+05 / 44
p0 −0.7697 ± 5.117e−05
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 23.22
Std Dev 22.2
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 45
Mean −0.9173
Std Dev 5.251
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

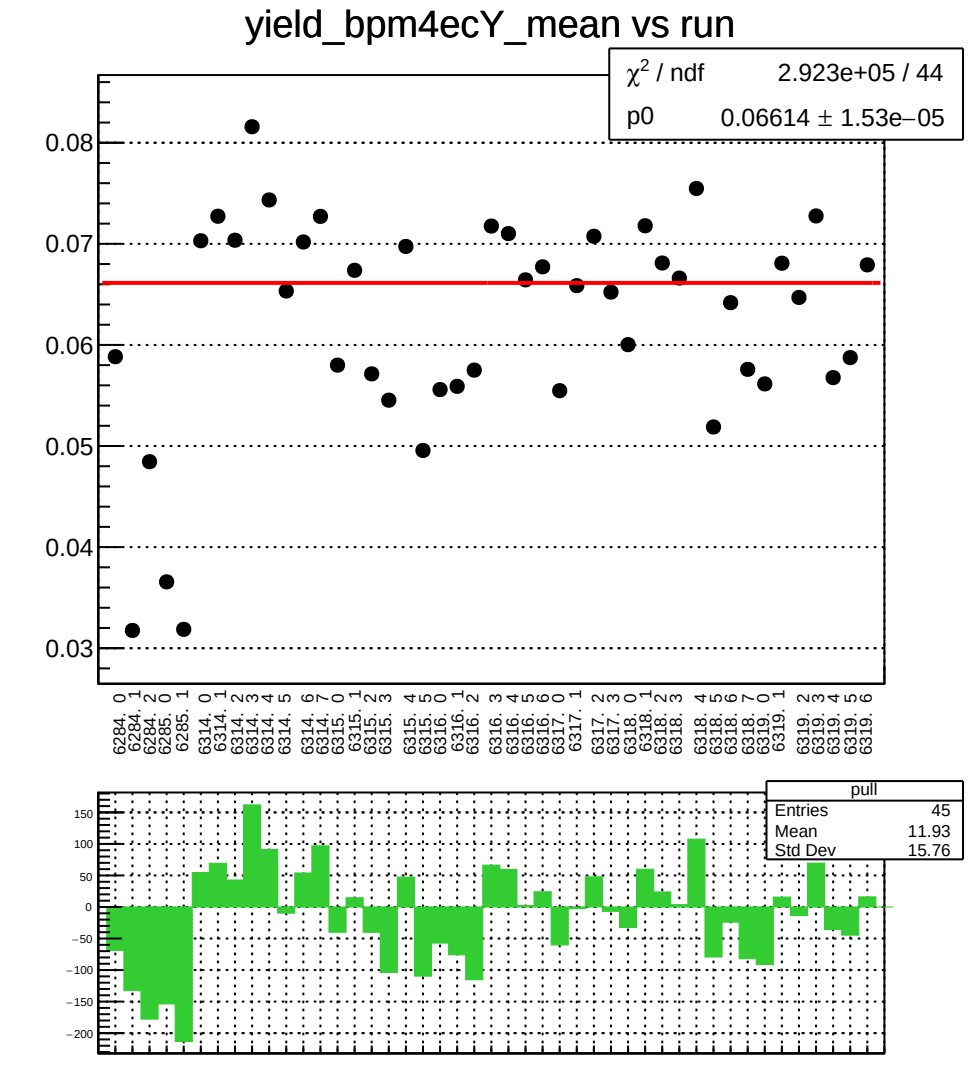

yield_bpm4acX_rms vs run
χ² / ndf 1.887e+05 / 44
p0 0.03067 ± 3.618e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

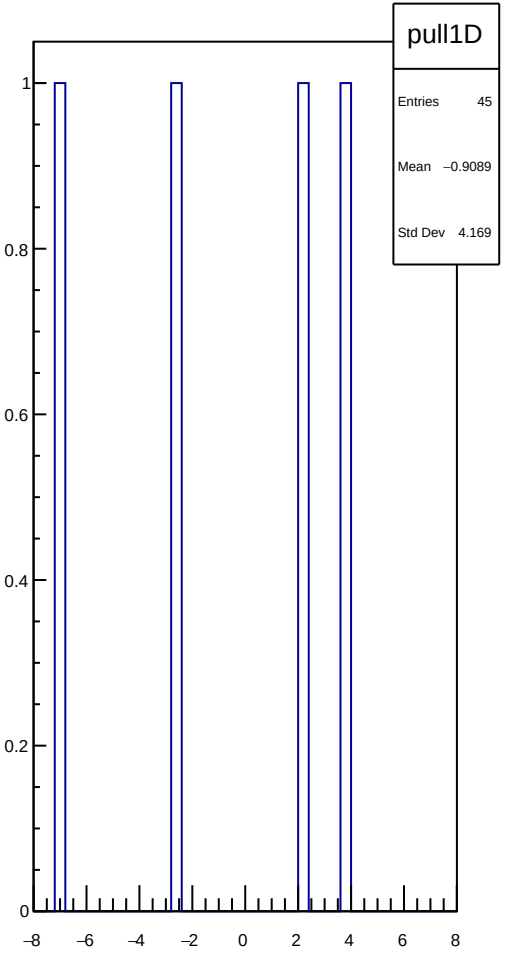

yield_bpm4acY_mean vs run
χ² / ndf 1.58e+05 / 44
p0 0.7979 ± 1.886e−05
0.815
0.81
0.805
0.8
0.795
0.79
0.785
0.78
0.775
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3.038
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 1.82
Std Dev 3.741
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

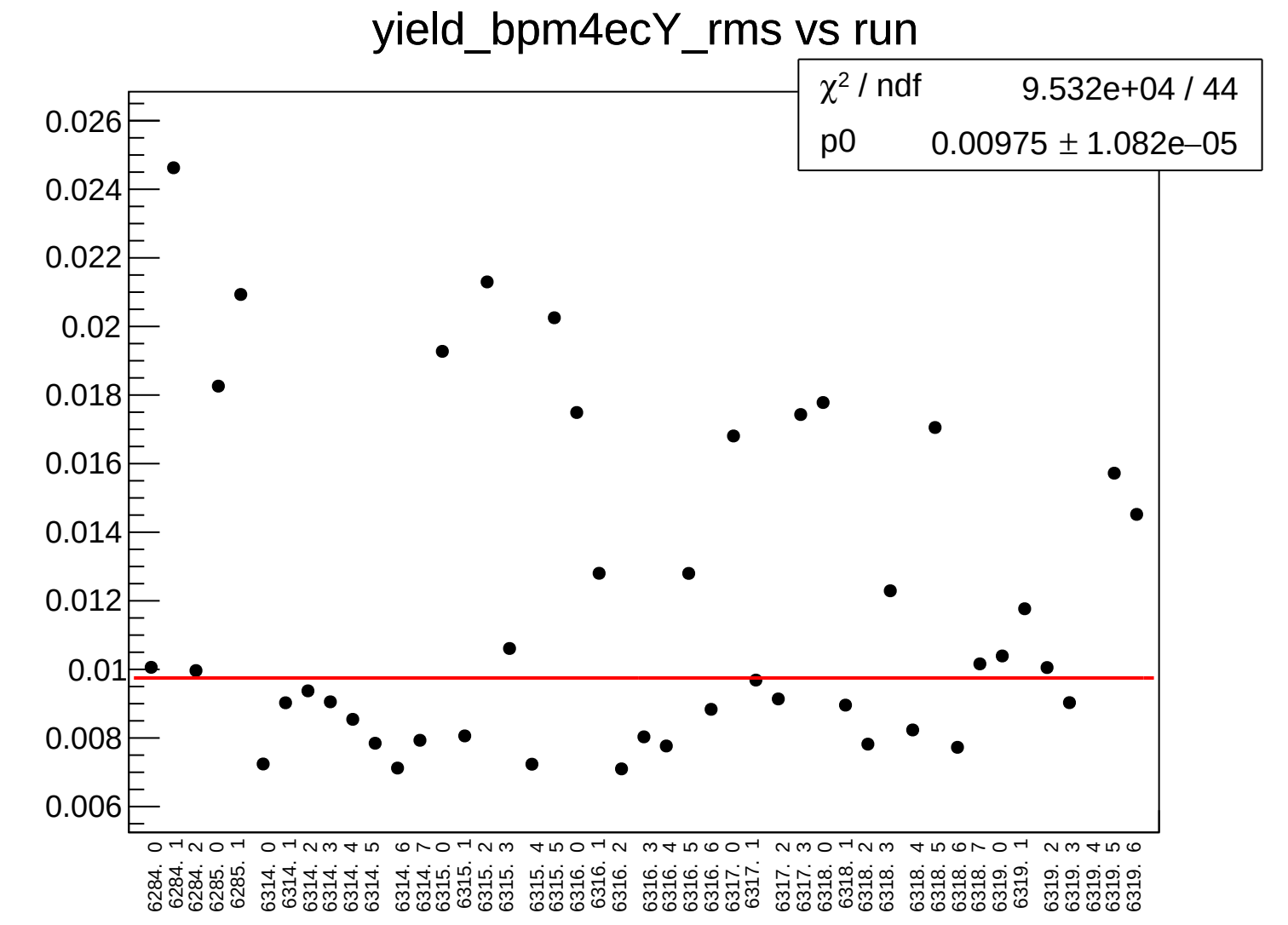

yield_bpm4acY_rms vs run
χ² / ndf 4.236e+04 / 44
p0 0.0124 ± 1.334e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm4ecX_mean vs run
χ² / ndf 1.15e+05 / 44
p0 −0.05727 ± 4.884e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 25.07
Std Dev 19.56
100
50
0
−50
−100
pull1D
Entries 45
Mean 0.2421
Std Dev 4.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecX_rms vs run
χ² / ndf 1.862e+05 / 44
p0 0.02932 ± 3.454e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm4ecY_mean vs run
χ² / ndf 2.923e+05 / 44
p0 0.06614 ± 1.53e−05
0.08
0.07
0.06
0.05
0.04
0.03
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.93
Std Dev 15.76
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 45
Mean −0.9089
Std Dev 4.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecY_rms vs run
χ² / ndf 9.532e+04 / 44
p0 0.00975 ± 1.082e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 2
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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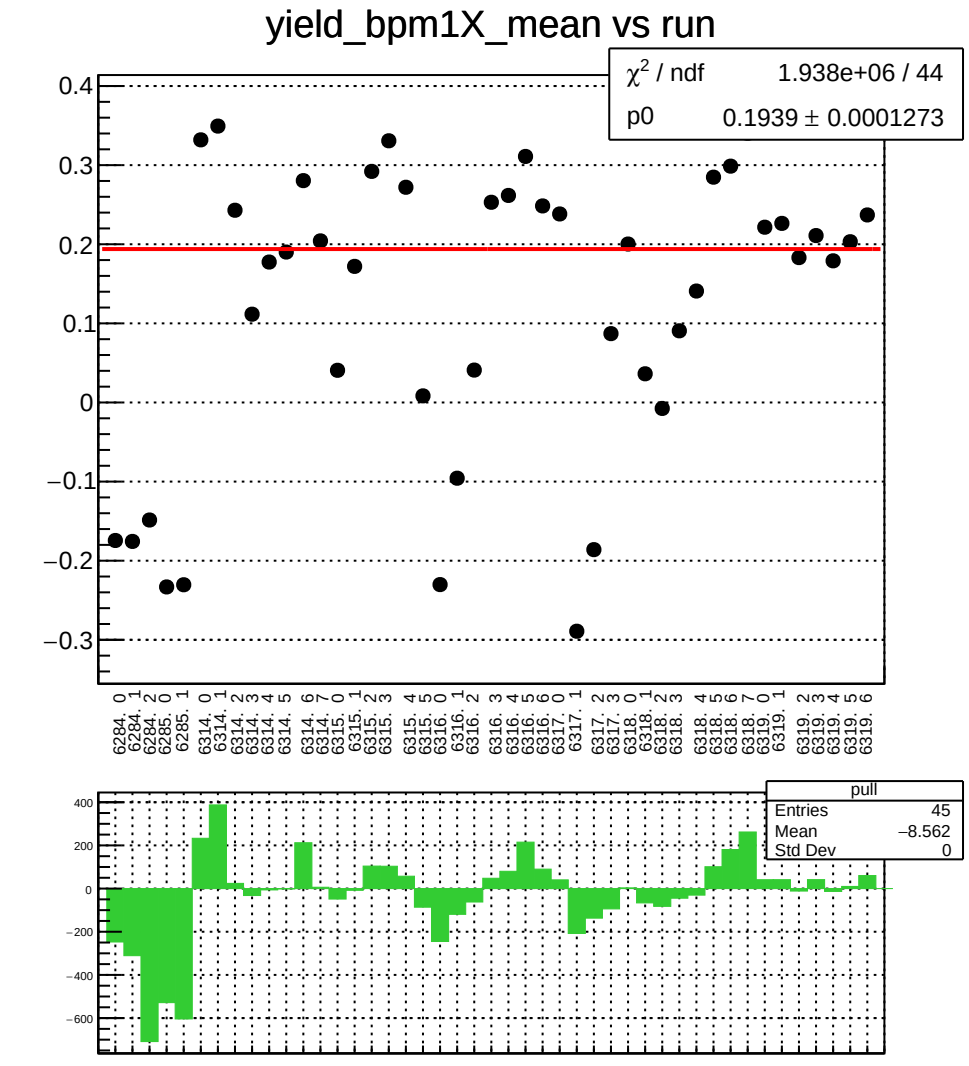
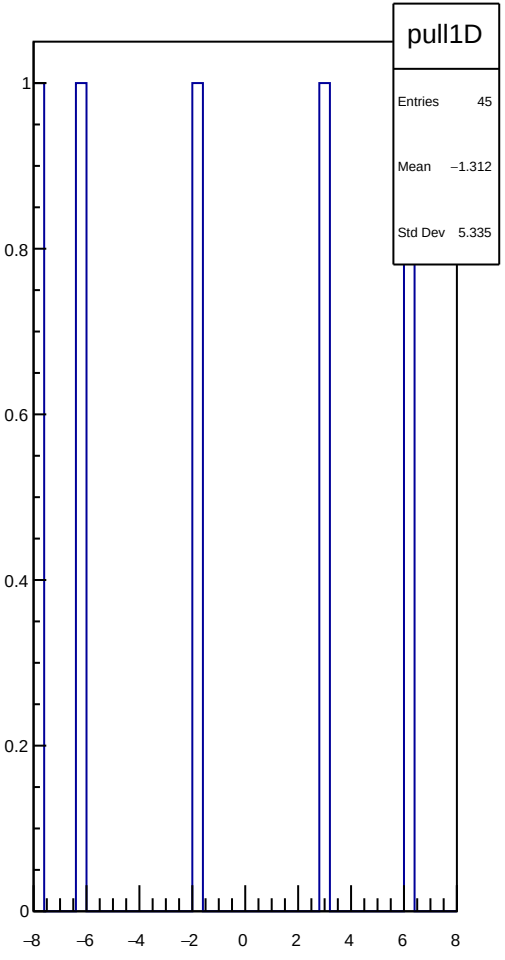
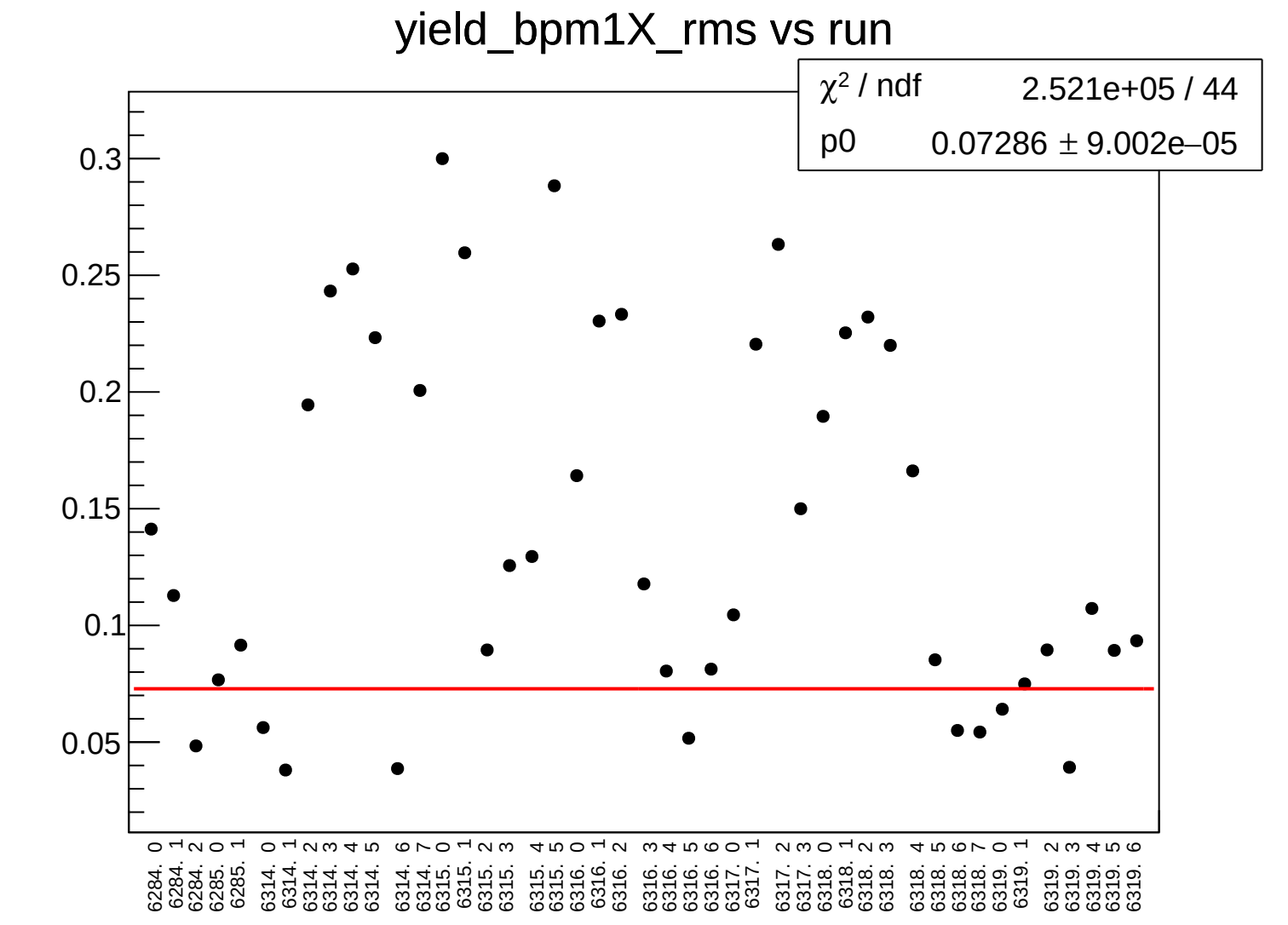
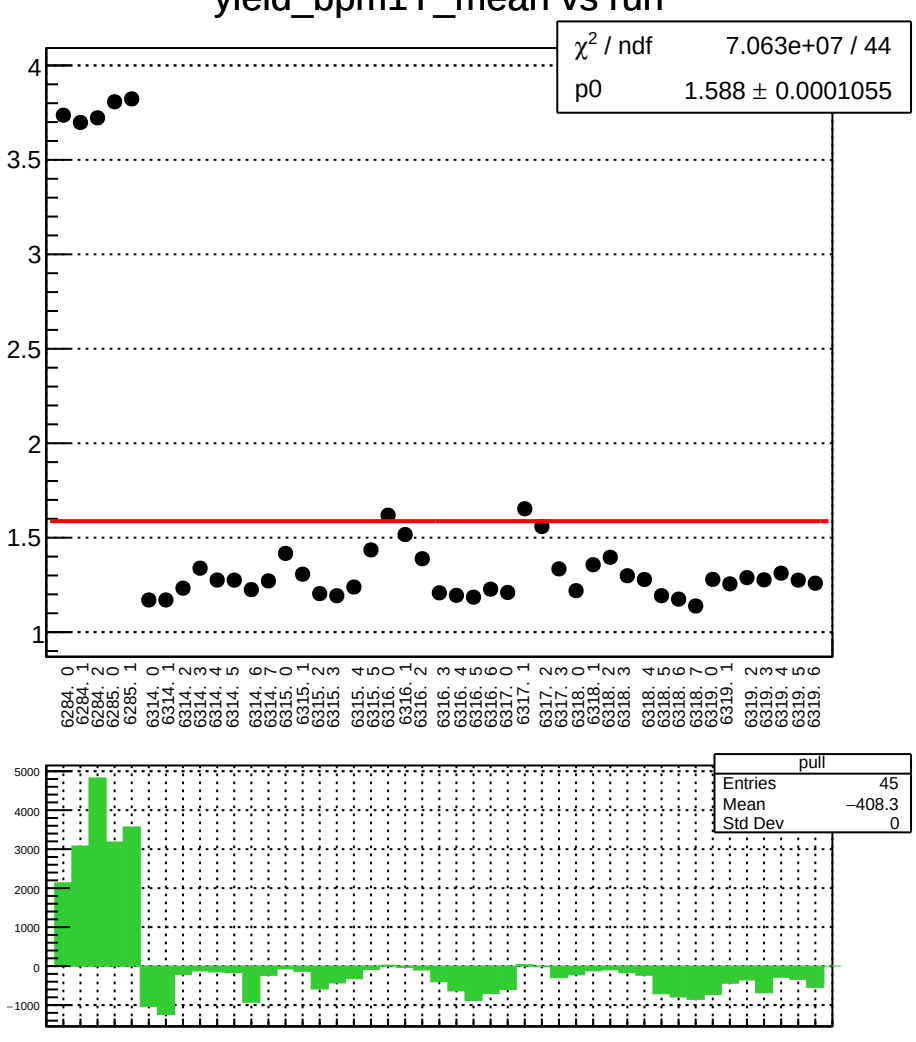
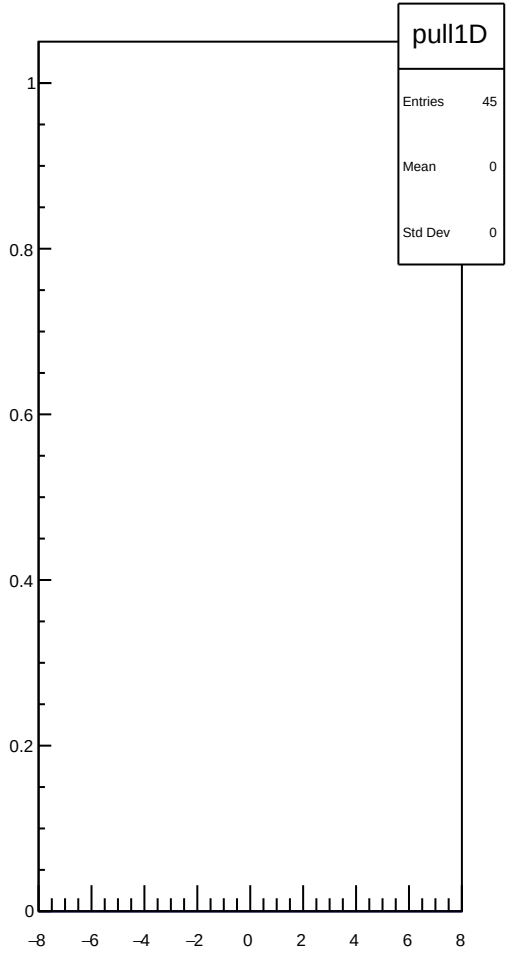
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

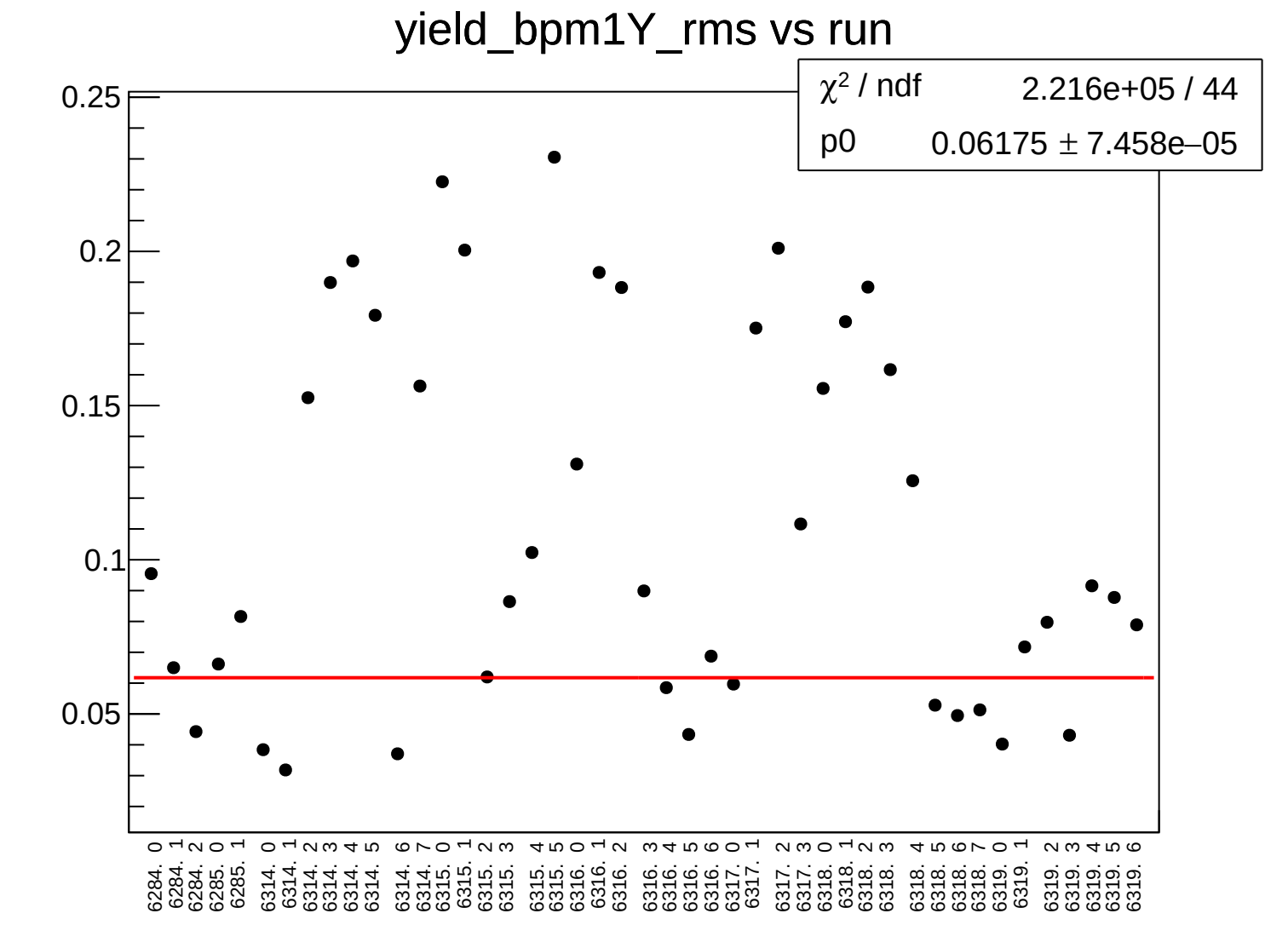

yield_bpm1X_mean vs run
χ² / ndf 1.938e+06 / 44
p0 0.1939 ± 0.0001273
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −8.562
Std Dev 0
400
200
0
−200
−400
−600


pull1D
Entries 45
Mean −1.312
Std Dev 5.335
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1X_rms vs run
χ² / ndf 2.521e+05 / 44
p0 0.07286 ± 9.002e–05
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1Y_mean vs run
χ² / ndf 7.063e+07 / 44
p0 1.588 ± 0.0001055
pull
Entries 45
Mean −408.3
Std Dev 0


pull1D
Entries 45
Mean 0
Std Dev 0


yield_bpm1Y_rms vs run
χ² / ndf 2.216e+05 / 44
p0 0.06175 ± 7.458e−05
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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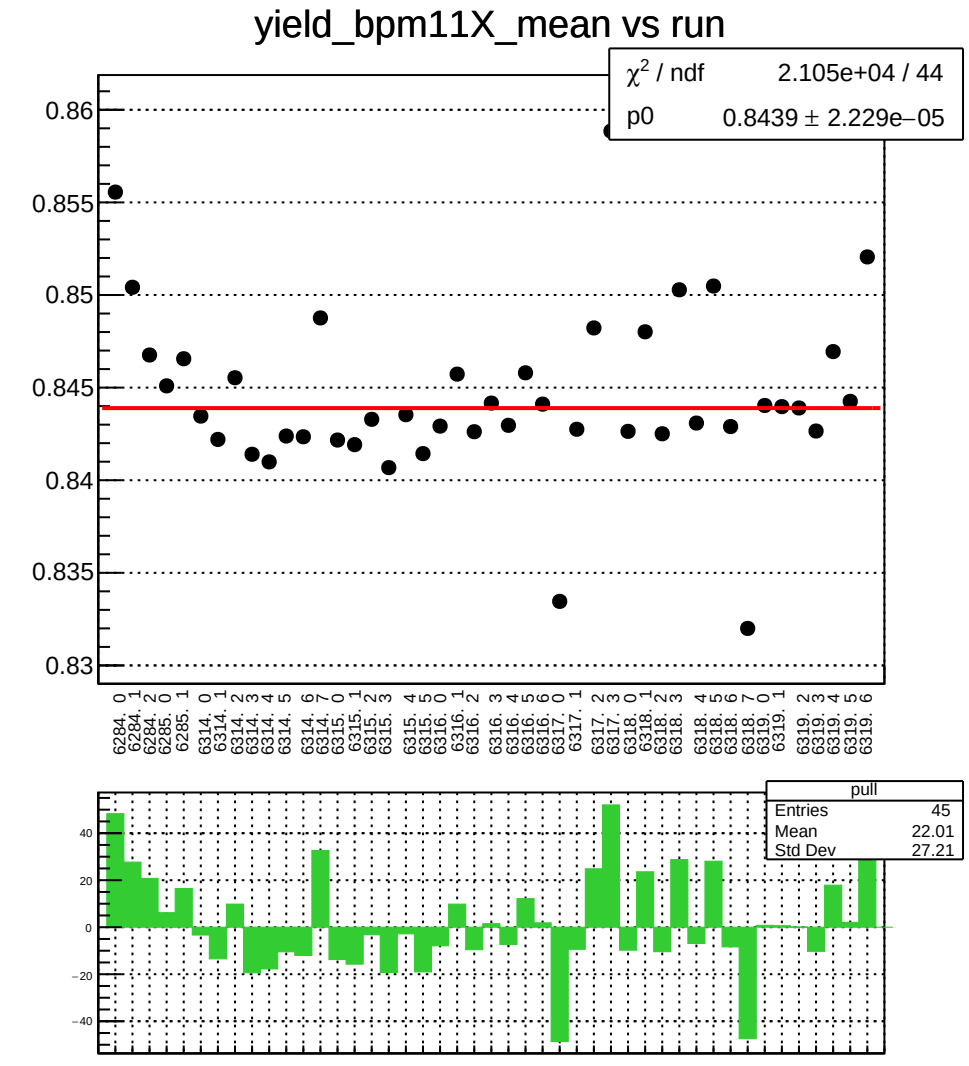
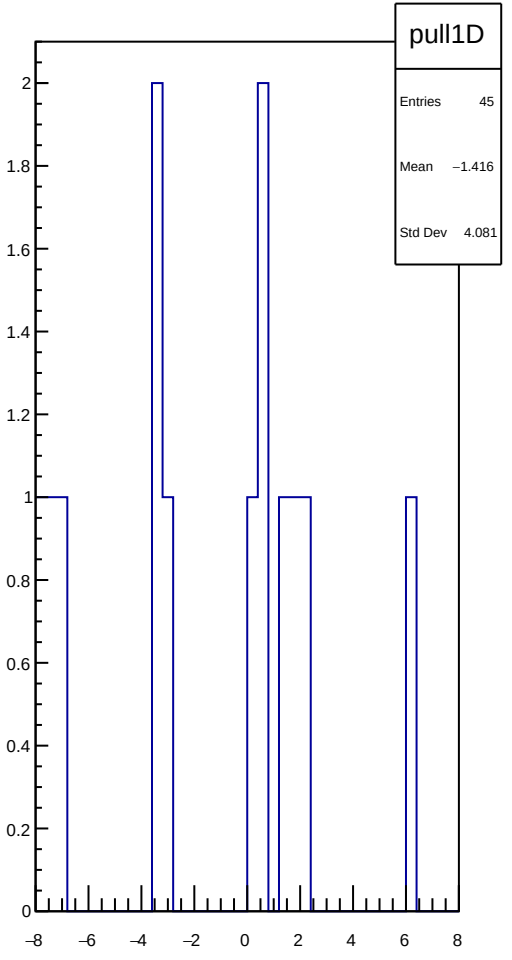
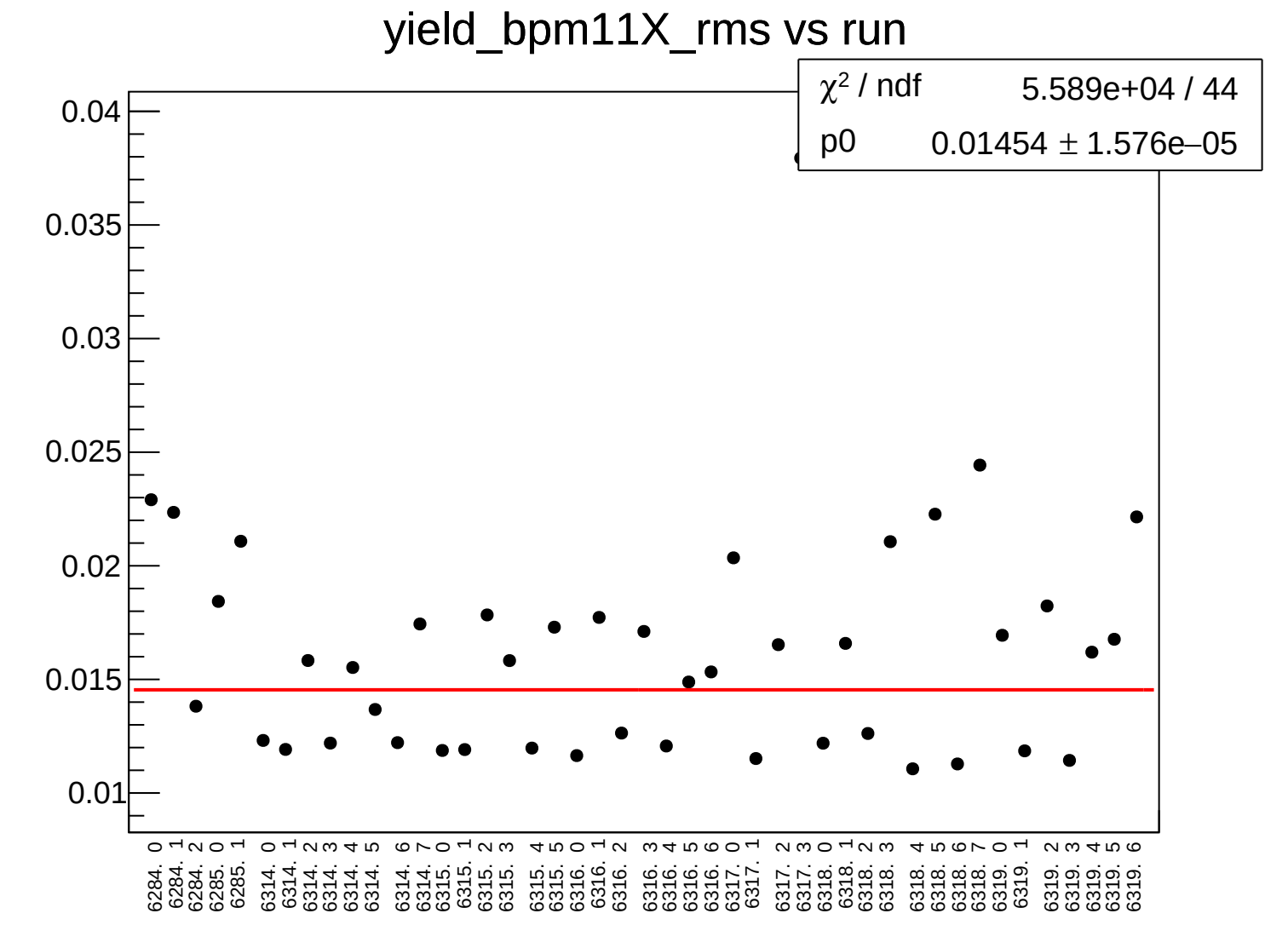
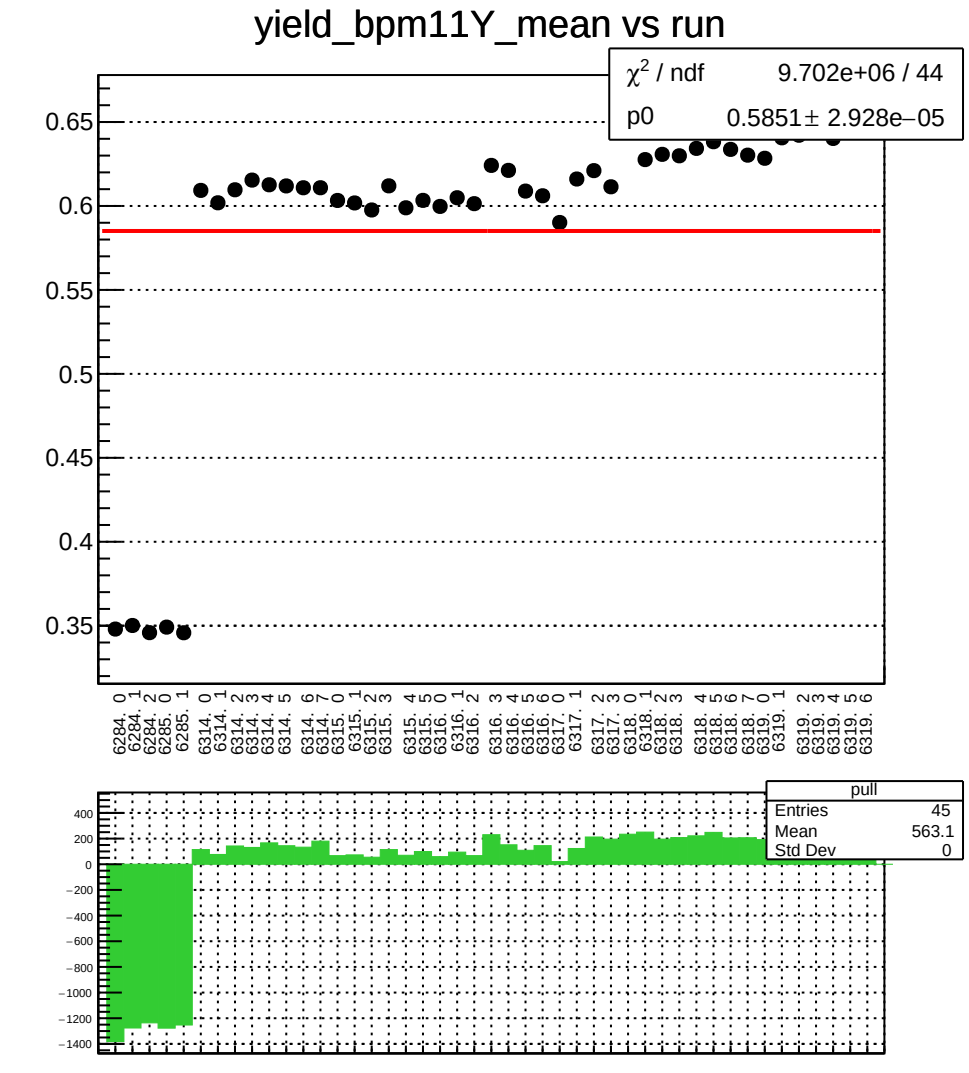
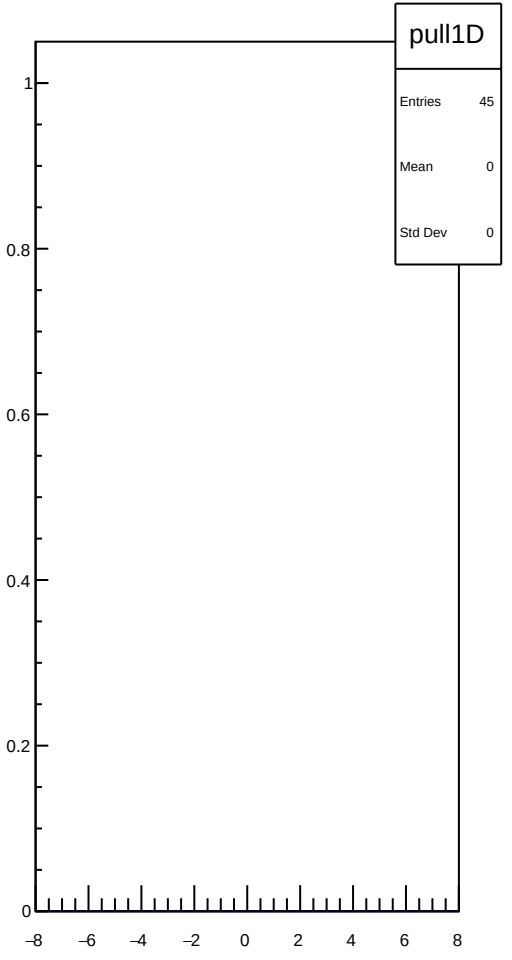
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

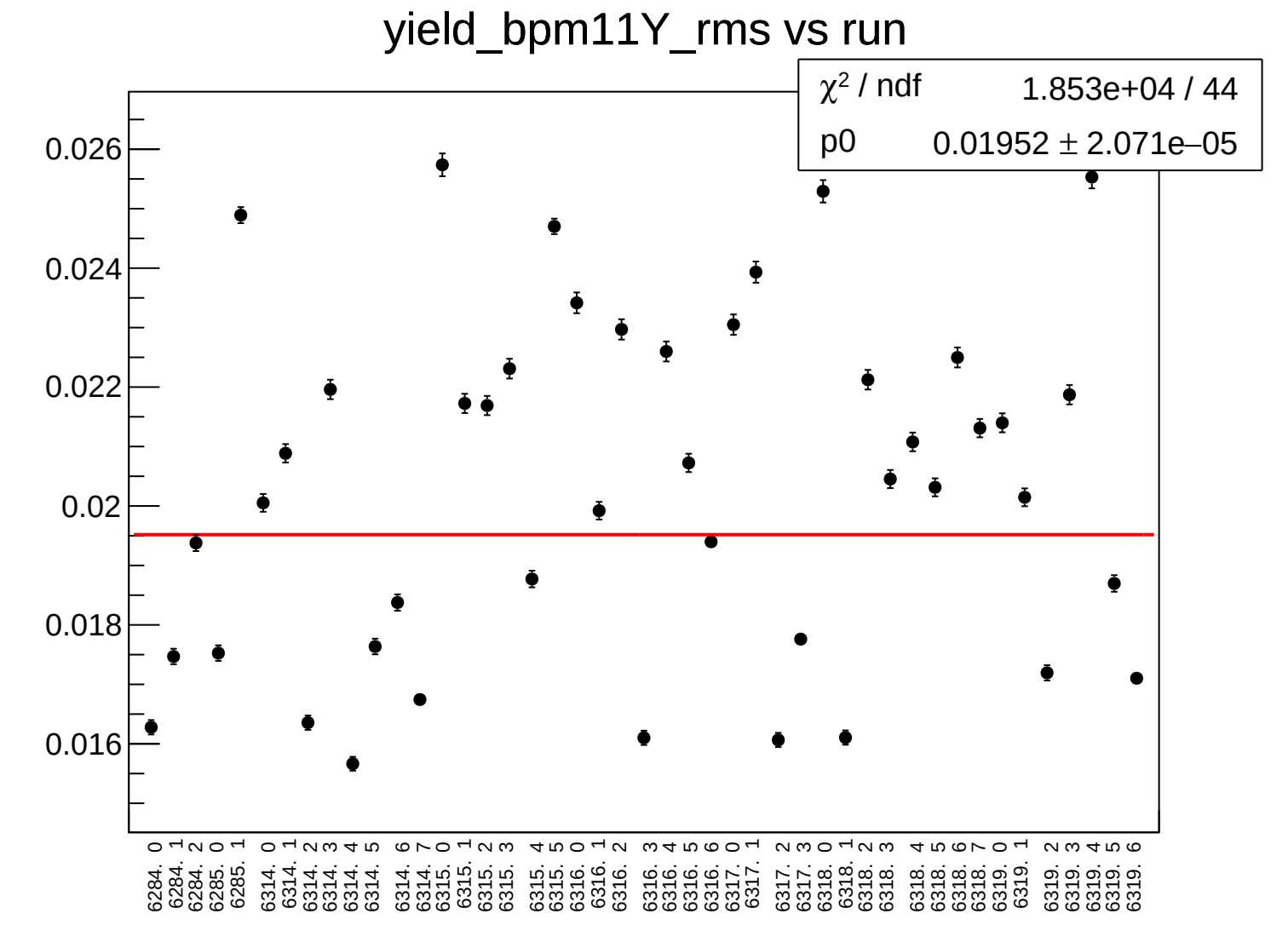

yield_bpm11X_mean vs run
χ² / ndf 2.105e+04 / 44
p0 0.8439 ± 2.229e−05
0.86
0.855
0.85
0.845
0.84
0.835
0.83
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.01
Std Dev 27.21
40
20
0
−20
−40

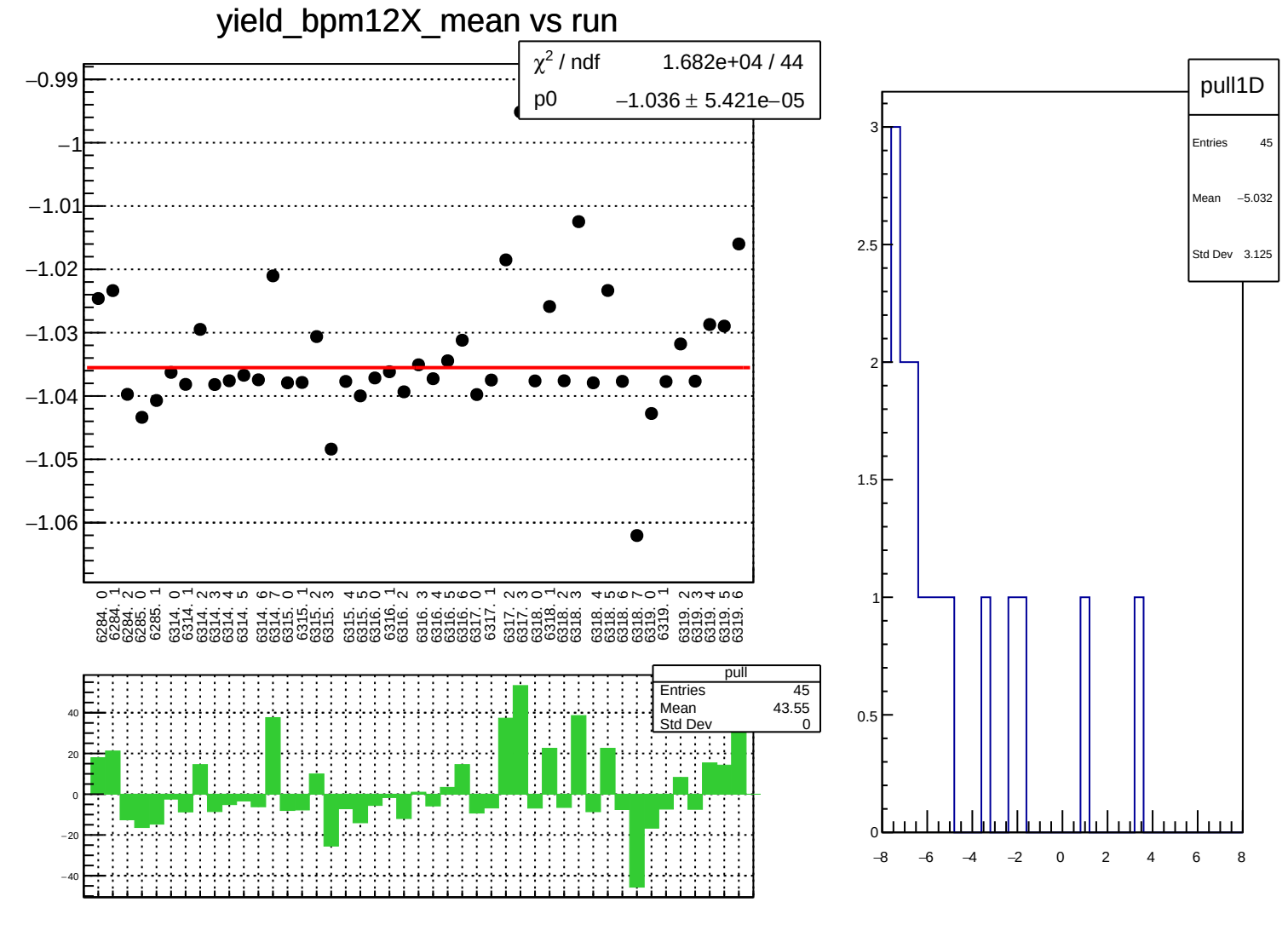

pull1D
Entries 45
Mean −1.416
Std Dev 4.081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

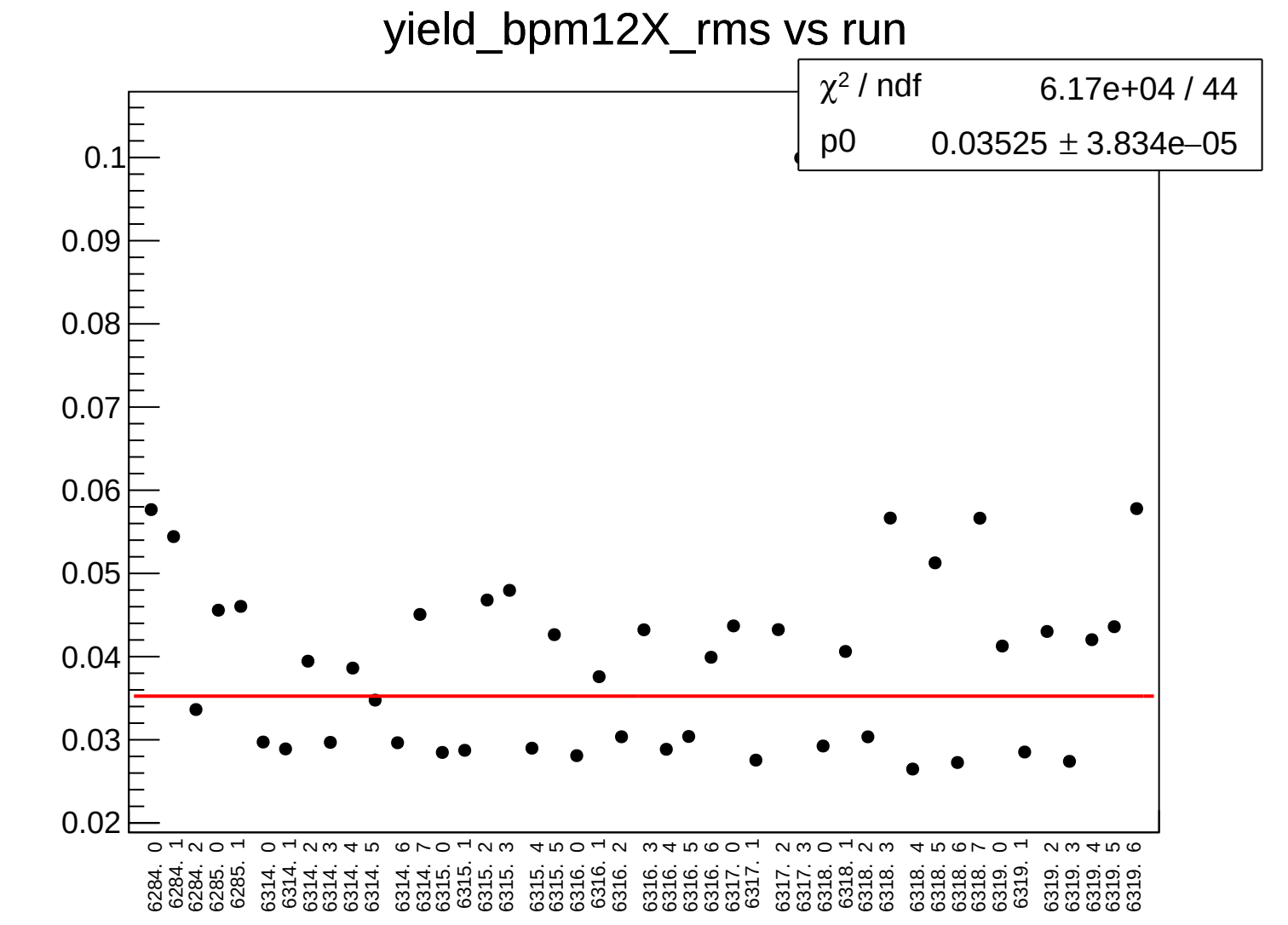

yield_bpm11X_rms vs run
χ² / ndf 5.589e+04 / 44
p0 0.01454 ± 1.576e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

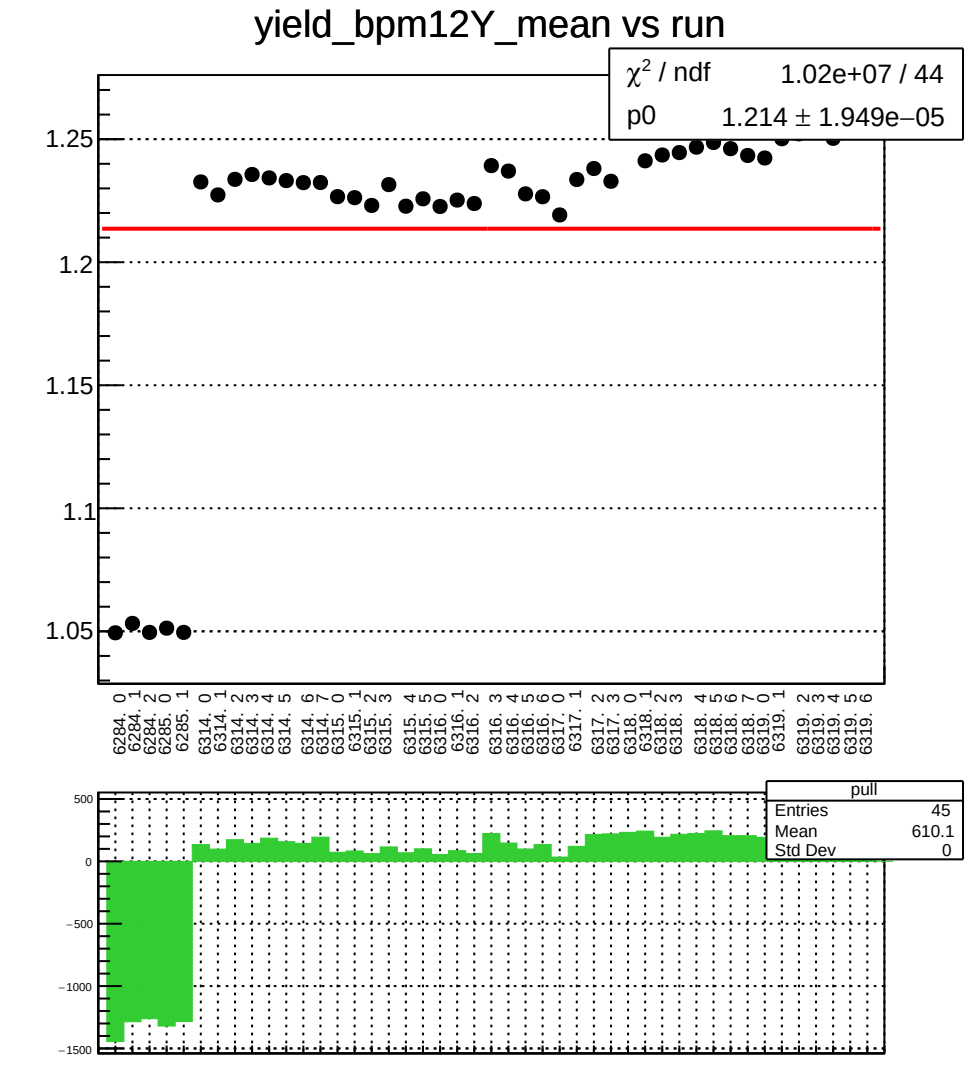

yield_bpm11Y_mean vs run
χ² / ndf 9.702e+06 / 44
p0 0.5851 ± 2.928e−05
0.65
0.6
0.55
0.5
0.45
0.4
0.35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 563.1
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

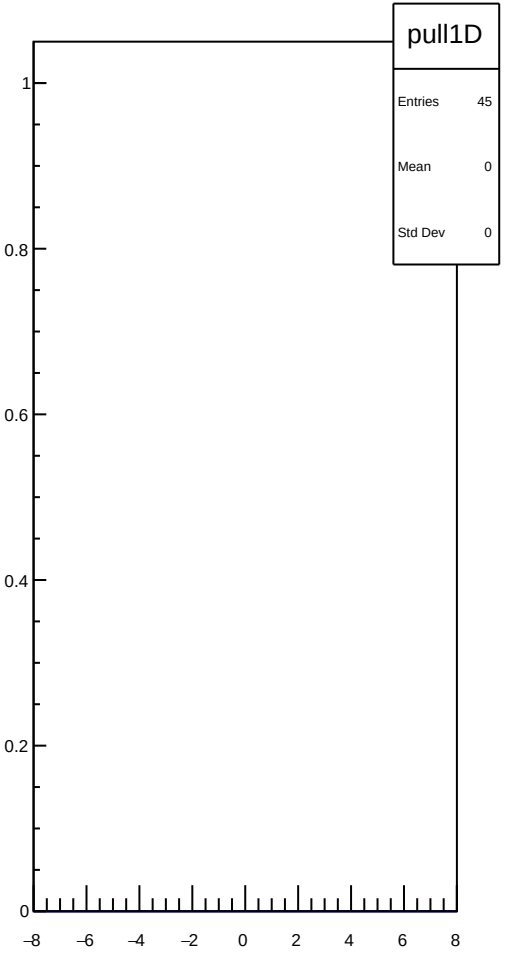

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

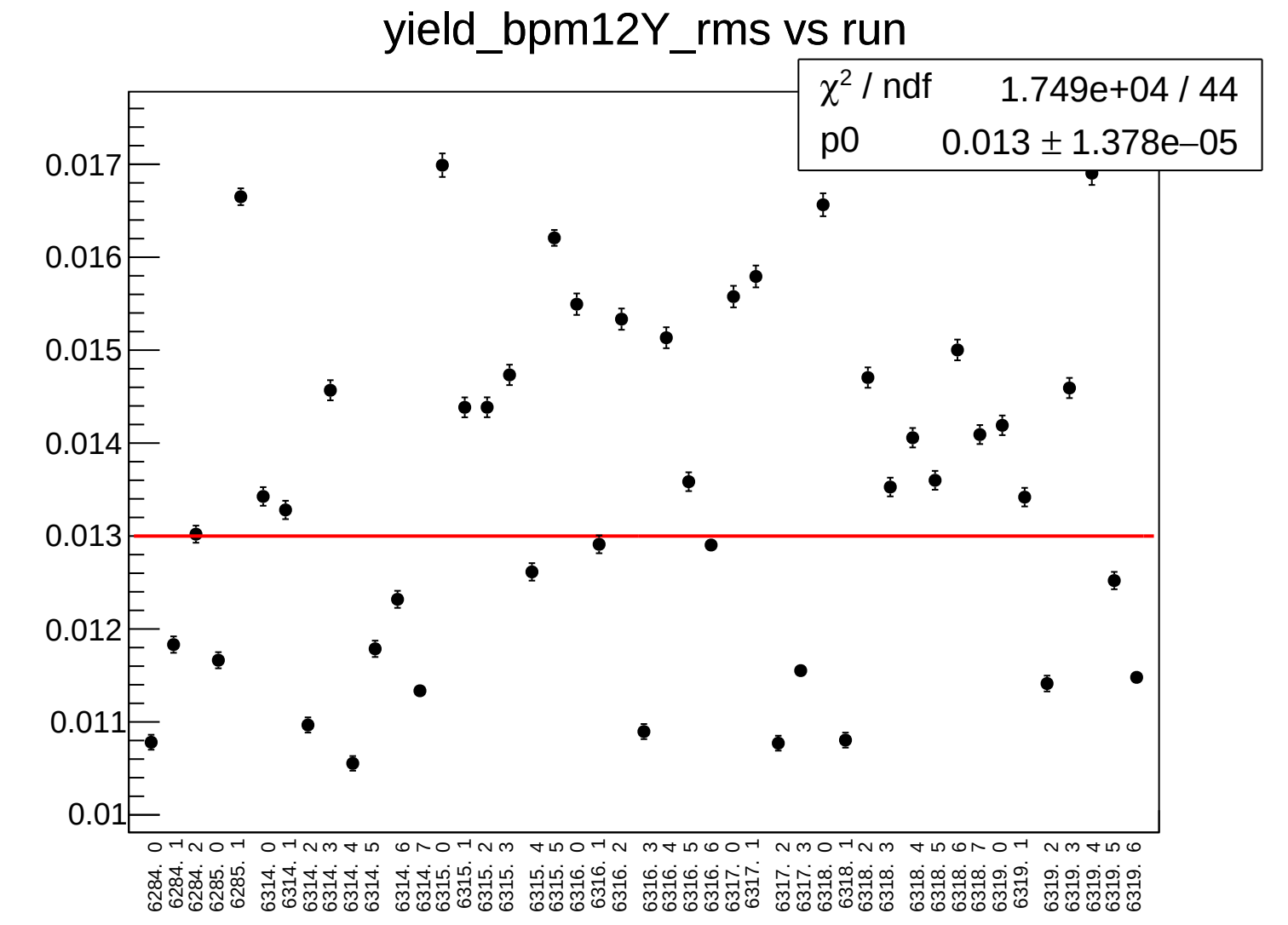

yield_bpm11Y_rms vs run
χ² / ndf 1.853e+04 / 44
p0 0.01952 ± 2.071e–05
0.026
0.024
0.022
0.02
0.018
0.016
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

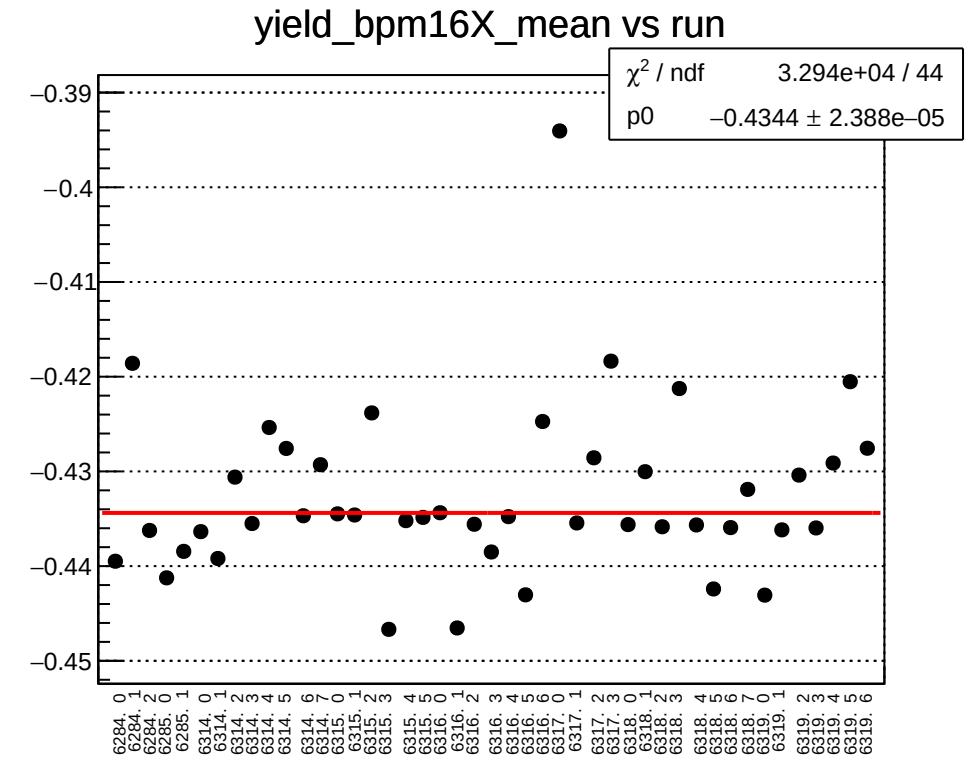

yield_bpm12X_mean vs run
χ² / ndf 1.682e+04 / 44
p0 −1.036 ± 5.421e−05
−0.99
−1
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.55
Std Dev 0
40
20
0
−20
−40
pull1D
Entries 45
Mean −5.032
Std Dev 3.125
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

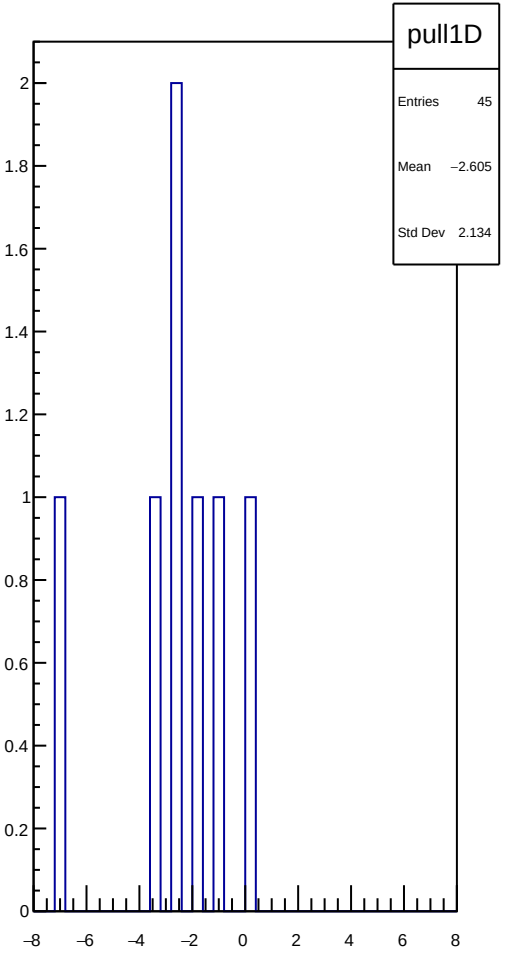

yield_bpm12X_rms vs run
χ² / ndf 6.17e+04 / 44
p0 0.03525 ± 3.834e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

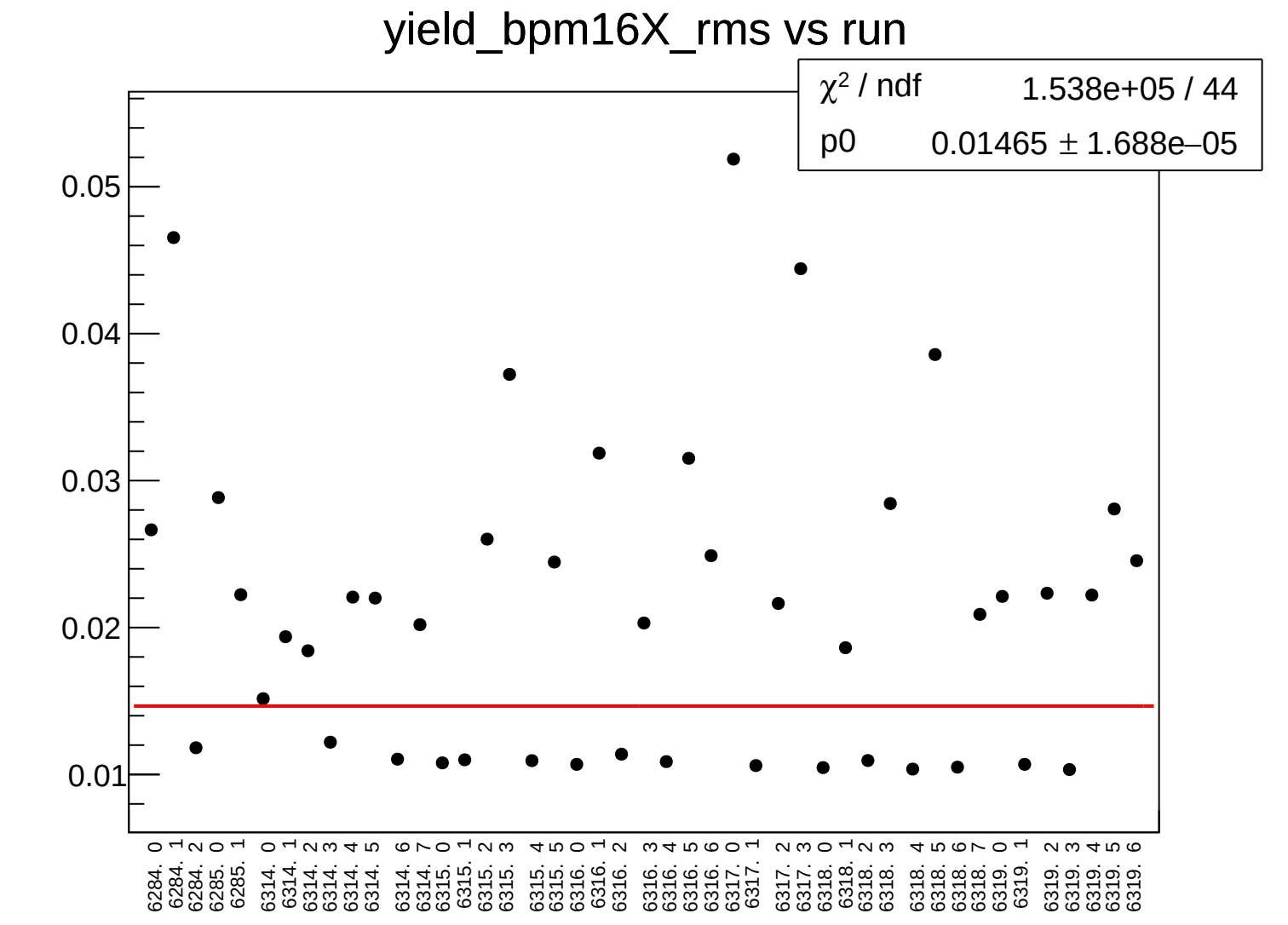

yield_bpm12Y_mean vs run
χ² / ndf 1.02e+07 / 44
p0 1.214 ± 1.949e−05
1.25
1.2
1.15
1.1
1.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 610.1
Std Dev 0
500
0
−500
−1000
−1500

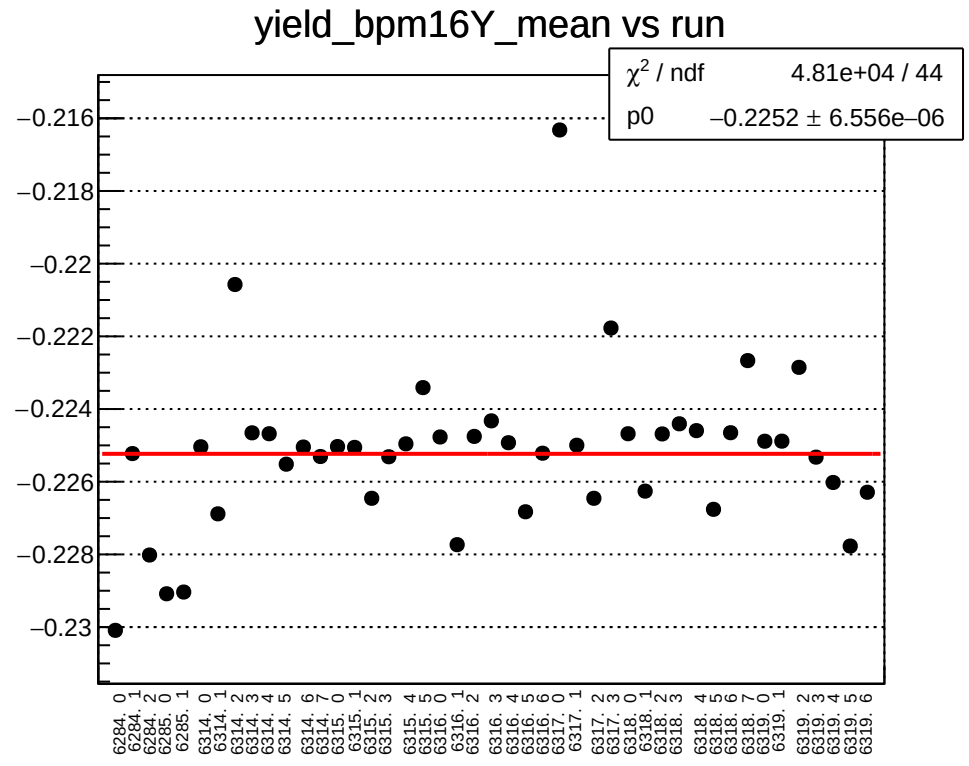

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

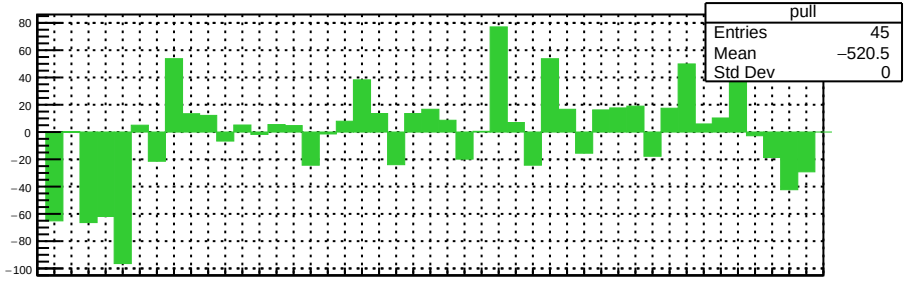

yield_bpm12Y_rms vs run
χ² / ndf 1.749e+04 / 44
p0 0.013 ± 1.378e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

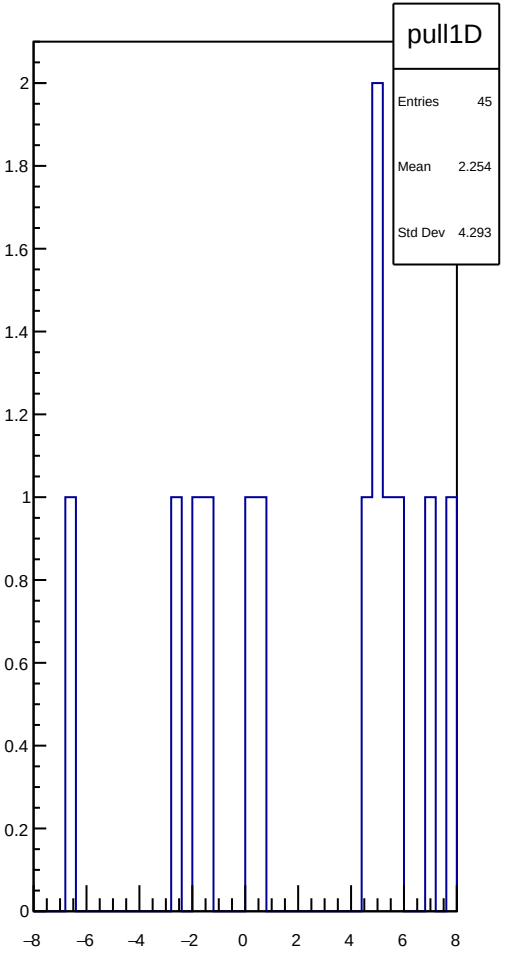

yield_bpm16X_mean vs run
χ² / ndf 3.294e+04 / 44
p0 −0.4344 ± 2.388e−05
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 36.99
Std Dev 0
60
40
20
0
−20
−40

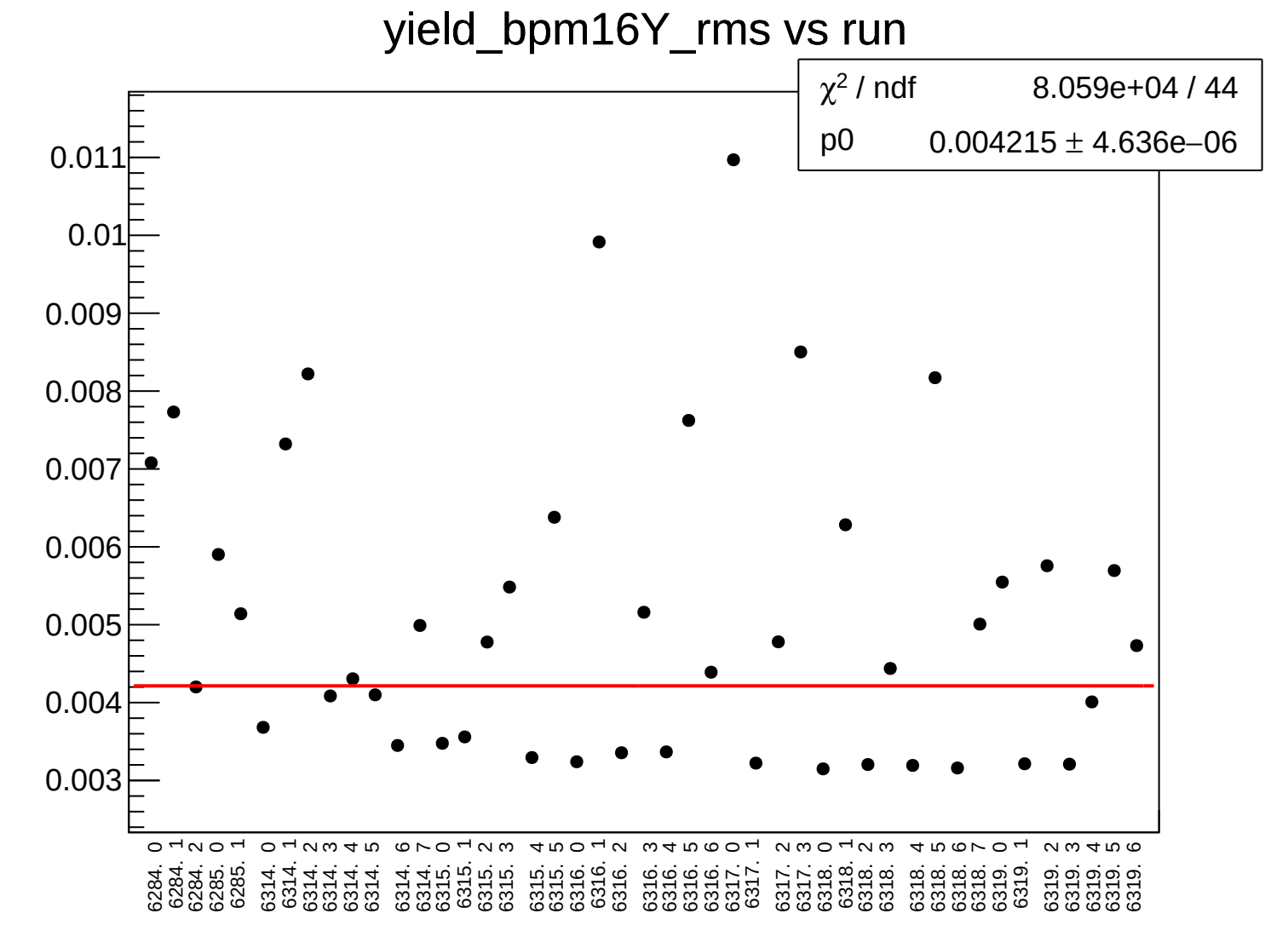

pull1D
Entries 45
Mean −2.605
Std Dev 2.134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

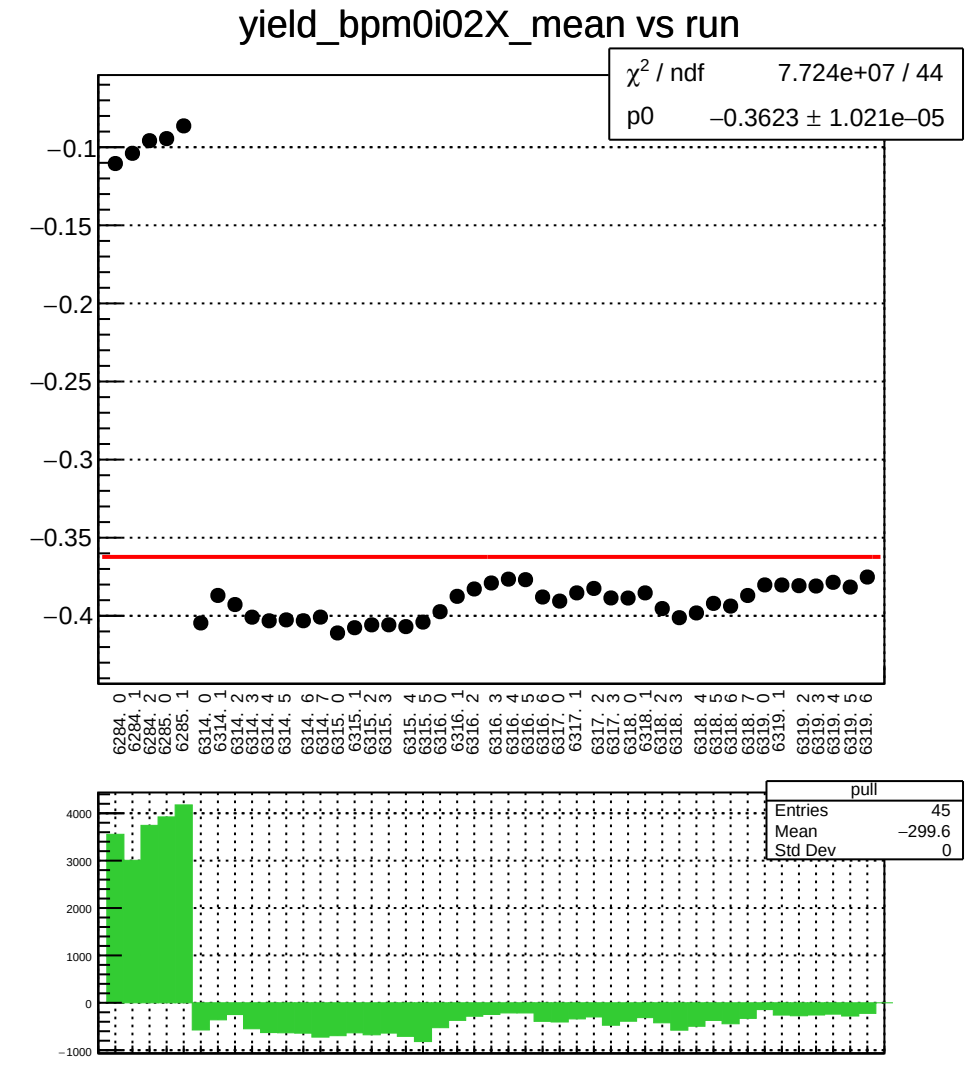

yield_bpm16X_rms vs run
χ² / ndf 1.538e+05 / 44
p0 0.01465 ± 1.688e–05
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

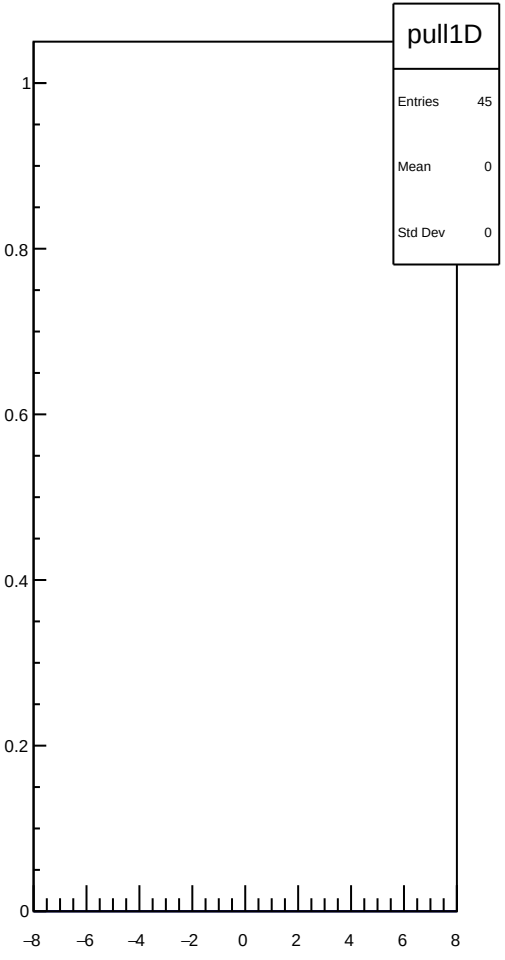

yield_bpm16Y_mean vs run
χ² / ndf 4.81e+04 / 44
p0 −0.2252 ± 6.556e−06
−0.216
−0.218
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

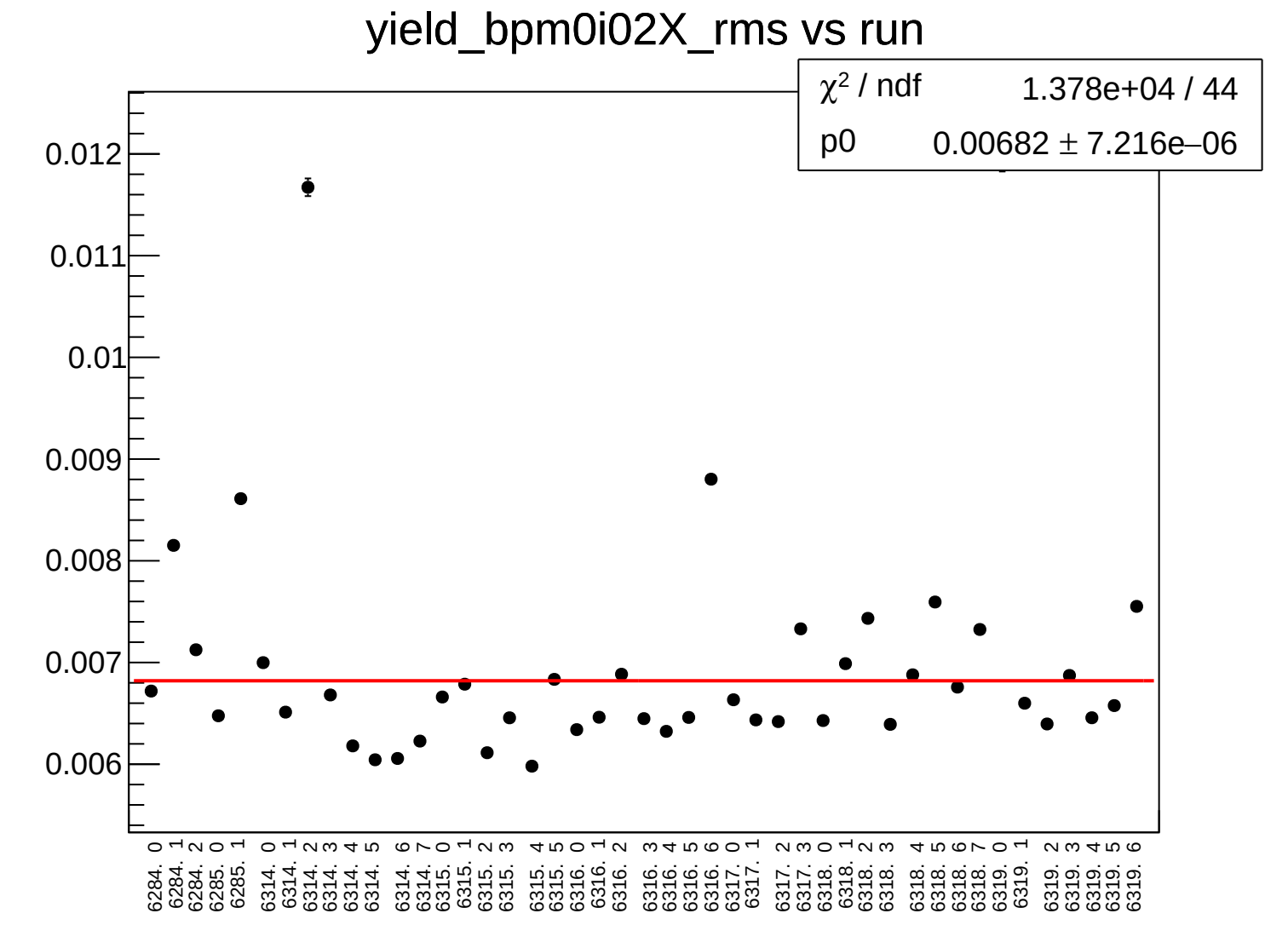

pull
Entries 45
Mean −520.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 45
Mean 2.254
Std Dev 4.293
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm16Y_rms vs run
χ² / ndf 8.059e+04 / 44
p0 0.004215 ± 4.636e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i02X_mean vs run
χ² / ndf 7.724e+07 / 44
p0 −0.3623 ± 1.021e−05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −299.6
Std Dev 0
4000
3000
2000
1000
0
−1000


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02X_rms vs run
χ² / ndf 1.378e+04 / 44
p0 0.00682 ± 7.216e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
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6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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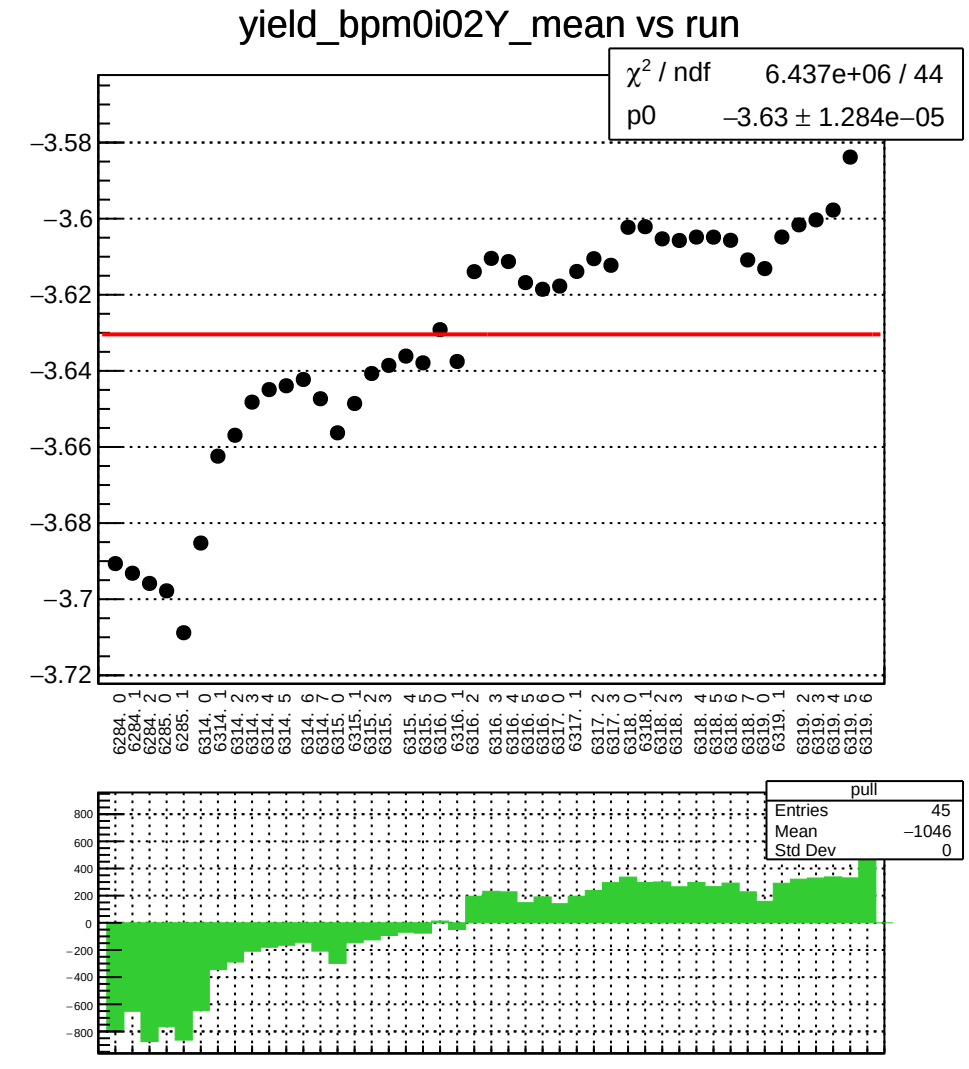
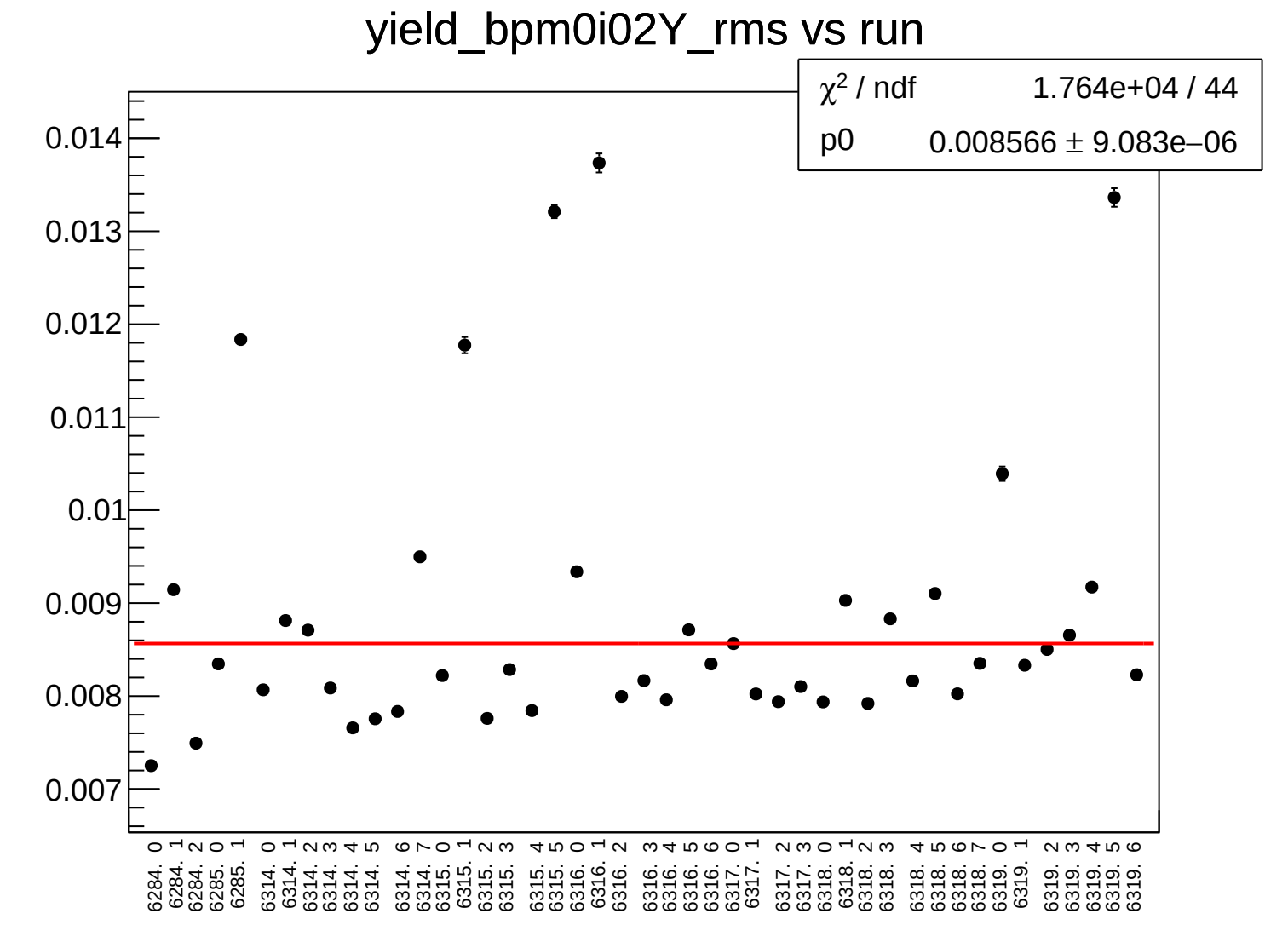
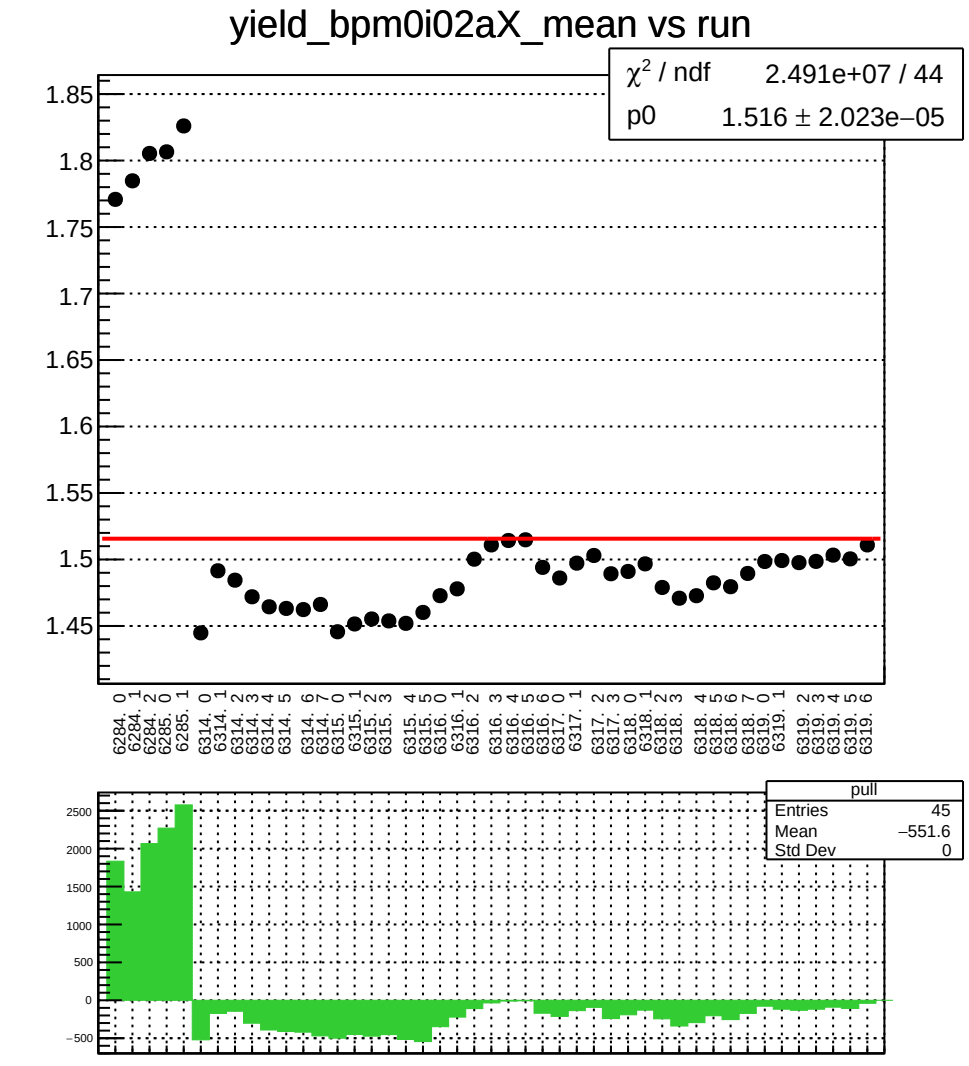
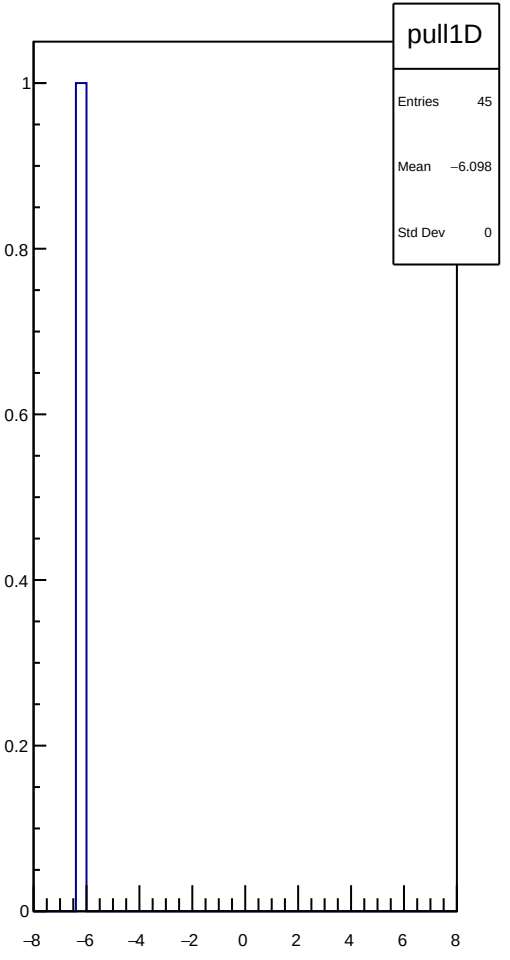
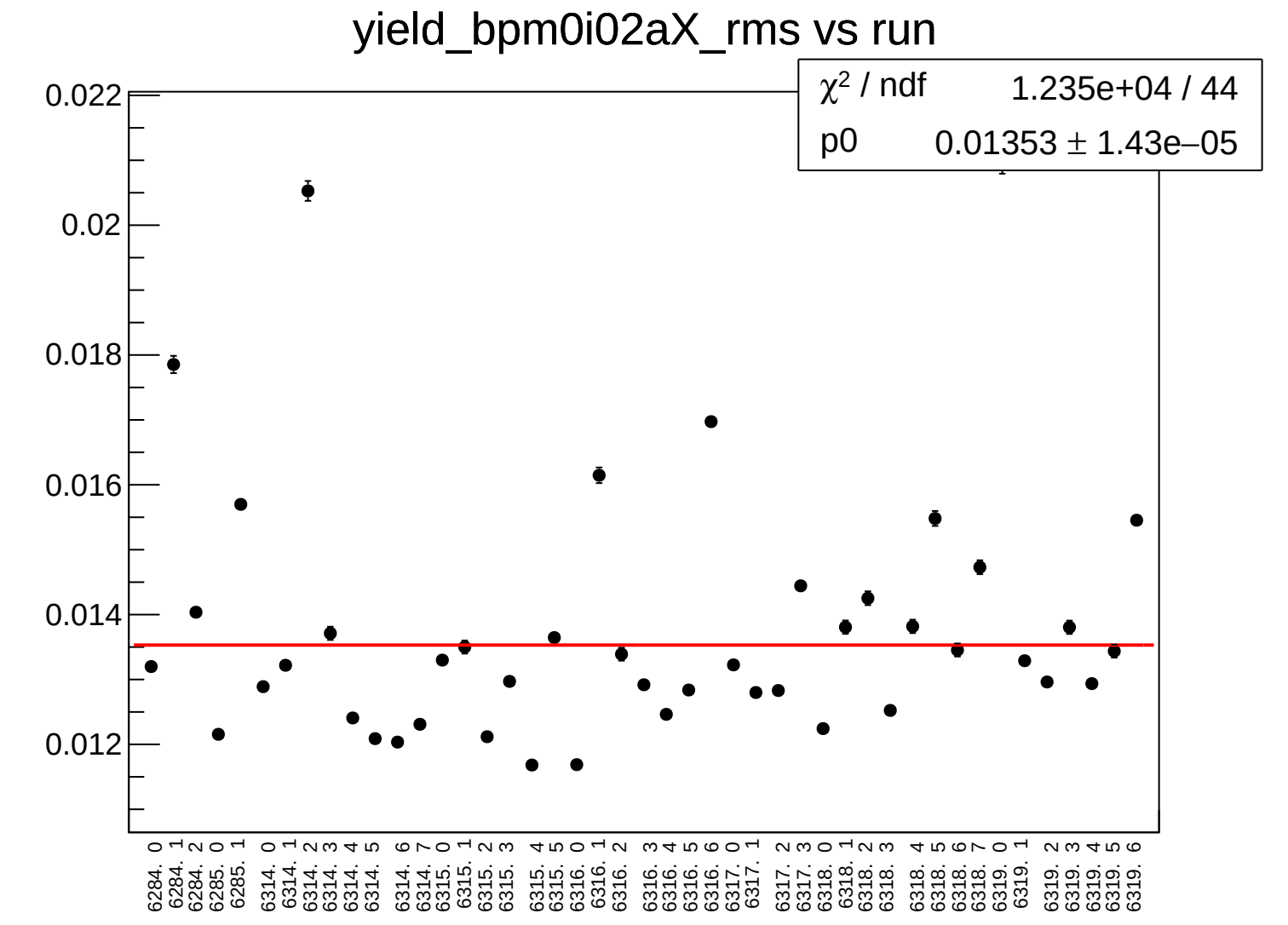
6319. 5
6319. 6

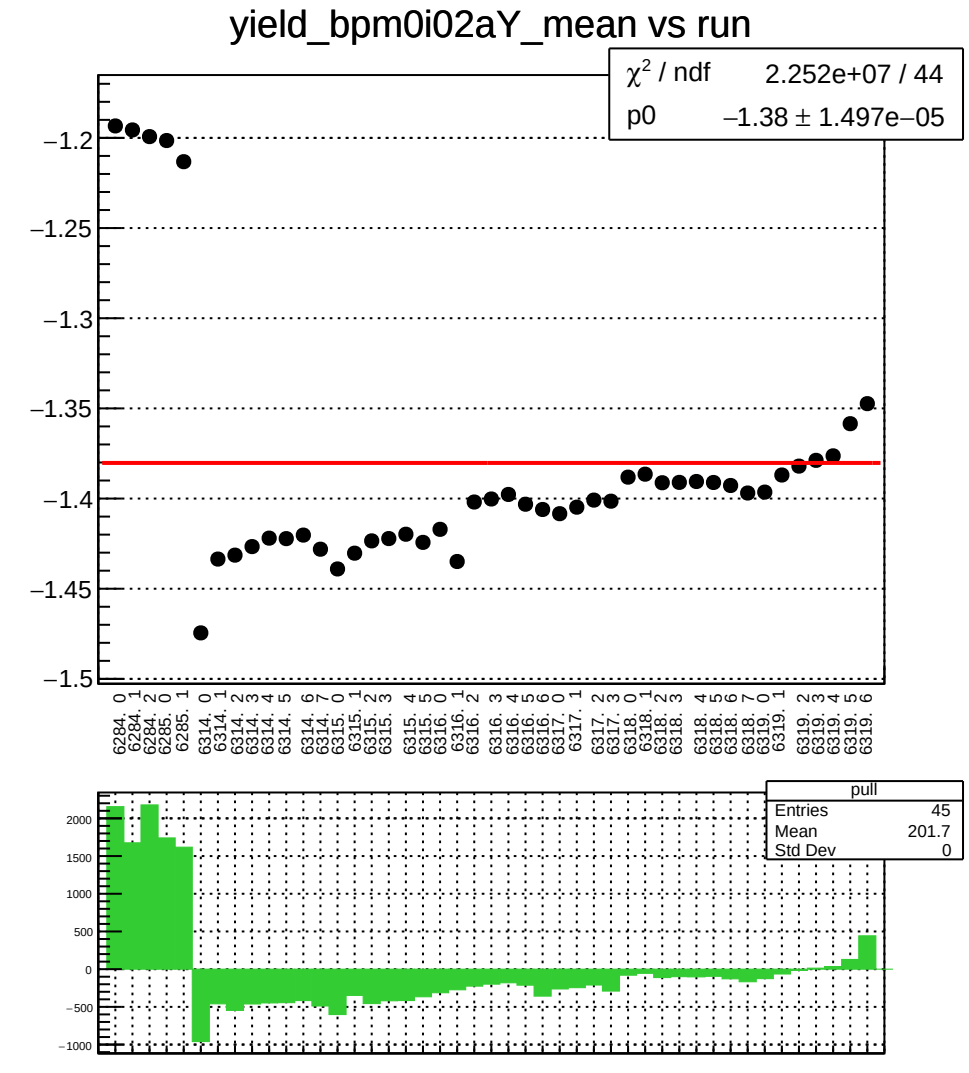

yield_bpm0i02Y_mean vs run
χ² / ndf 6.437e+06 / 44
p0 −3.63 ± 1.284e−05
−3.58
−3.6
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1046
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

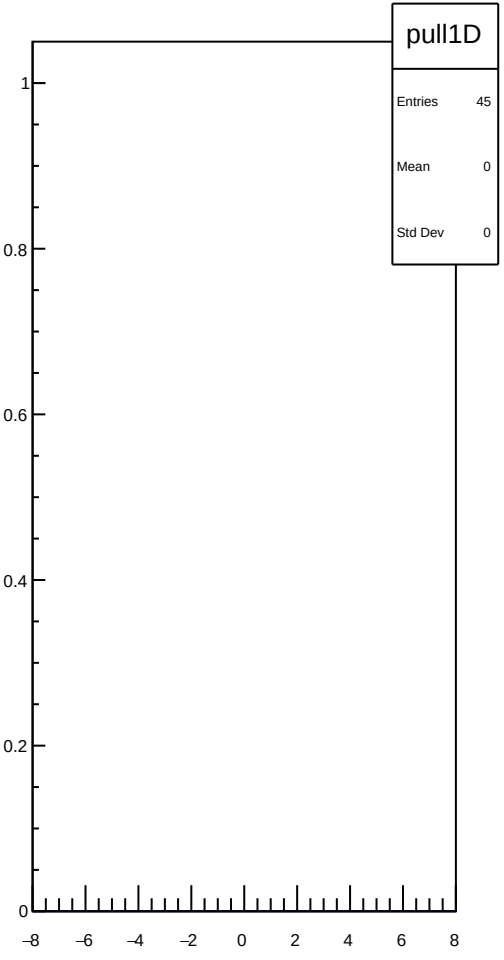

yield_bpm0i02Y_rms vs run
χ² / ndf 1.764e+04 / 44
p0 0.008566 ± 9.083e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i02aX_mean vs run
χ² / ndf 2.491e+07 / 44
p0 1.516 ± 2.023e−05
1.85
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −551.6
Std Dev 0
2500
2000
1500
1000
500
0
−500


pull1D
Entries 45
Mean −6.098
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aX_rms vs run
χ² / ndf 1.235e+04 / 44
p0 0.01353 ± 1.43e−05
0.022
0.02
0.018
0.016
0.014
0.012
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i02aY_mean vs run
χ² / ndf 2.252e+07 / 44
p0 −1.38 ± 1.497e−05
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 201.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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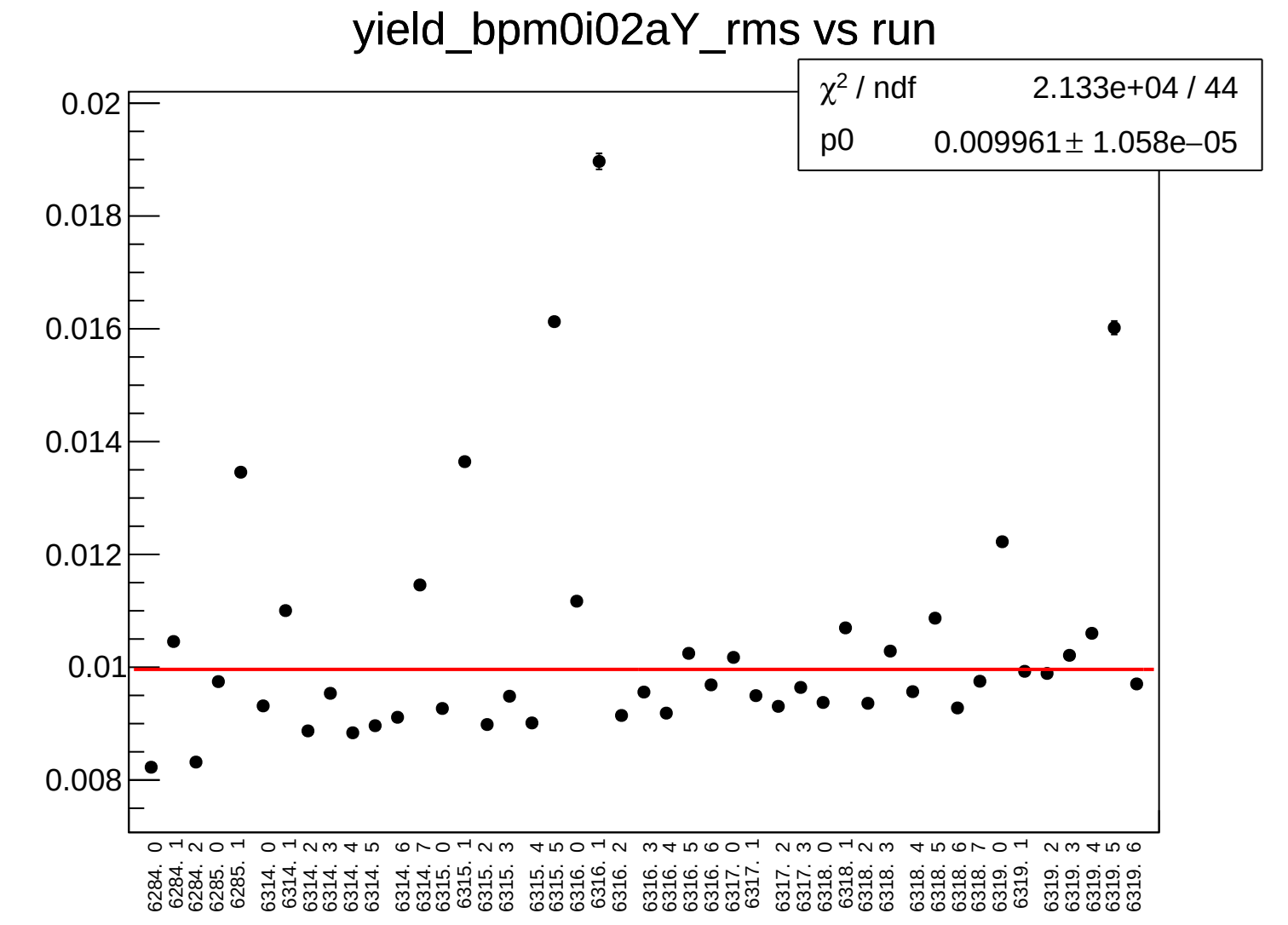
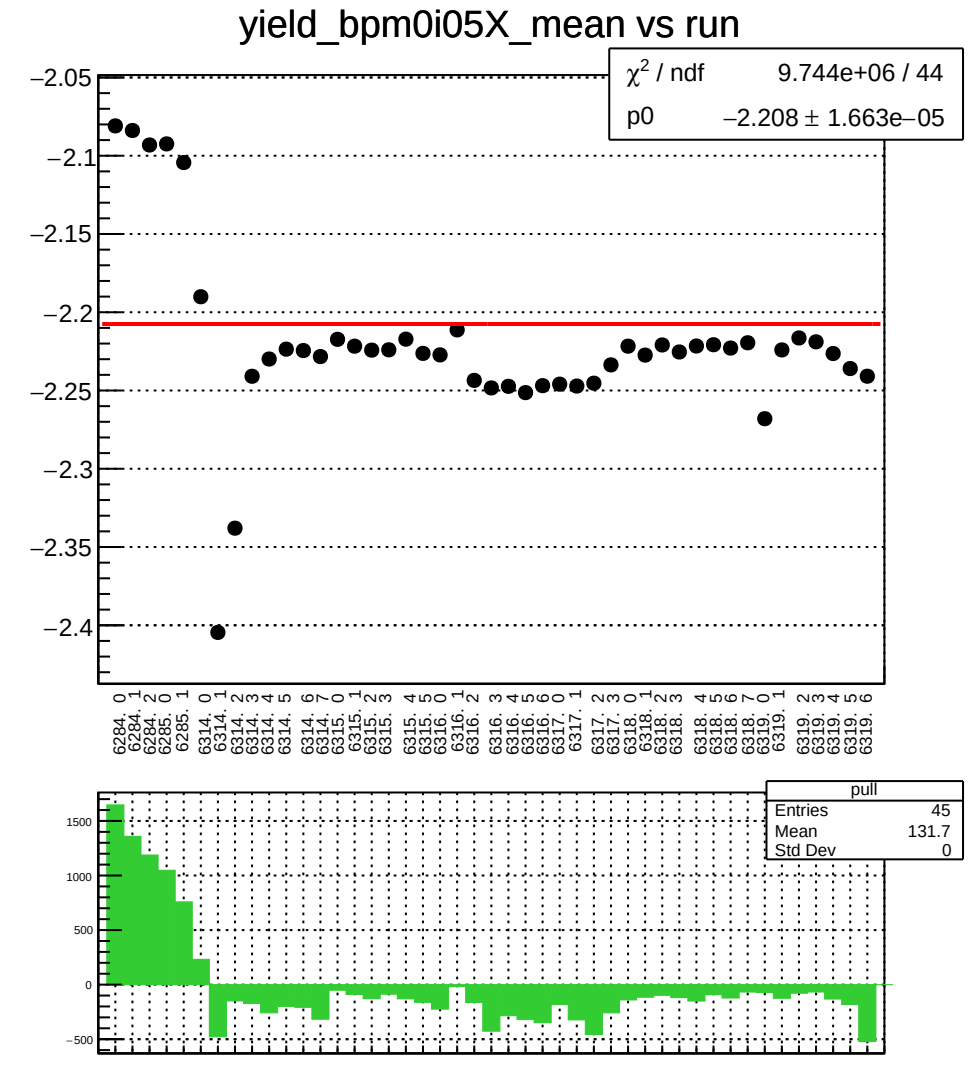
0
2
4
6
8


yield_bpm0i02aY_rms vs run
χ² / ndf 2.133e+04 / 44
p0 0.009961 ± 1.058e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i05X_mean vs run
χ² / ndf 9.744e+06 / 44
p0 −2.208 ± 1.663e−05
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
−2.35
−2.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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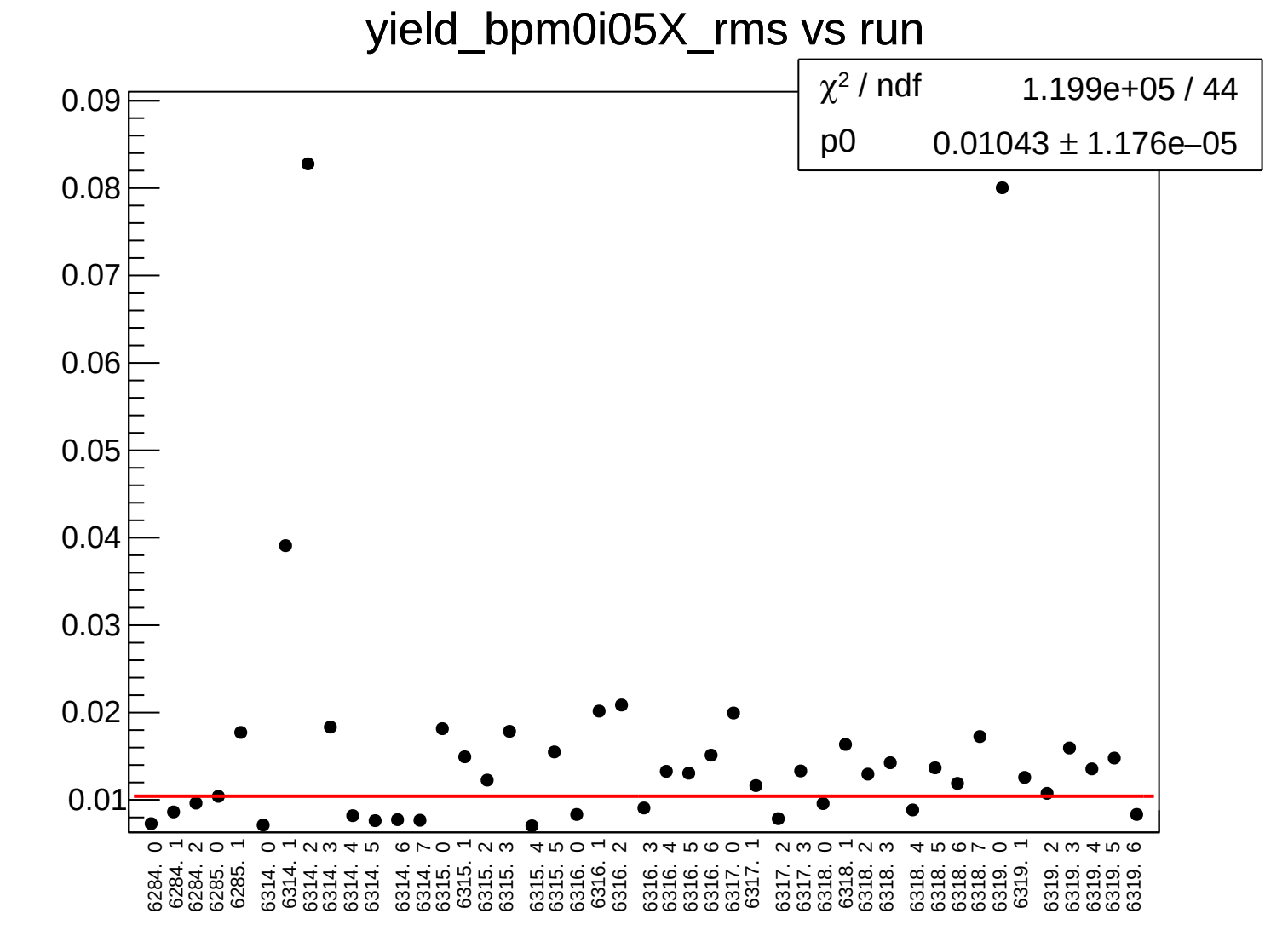
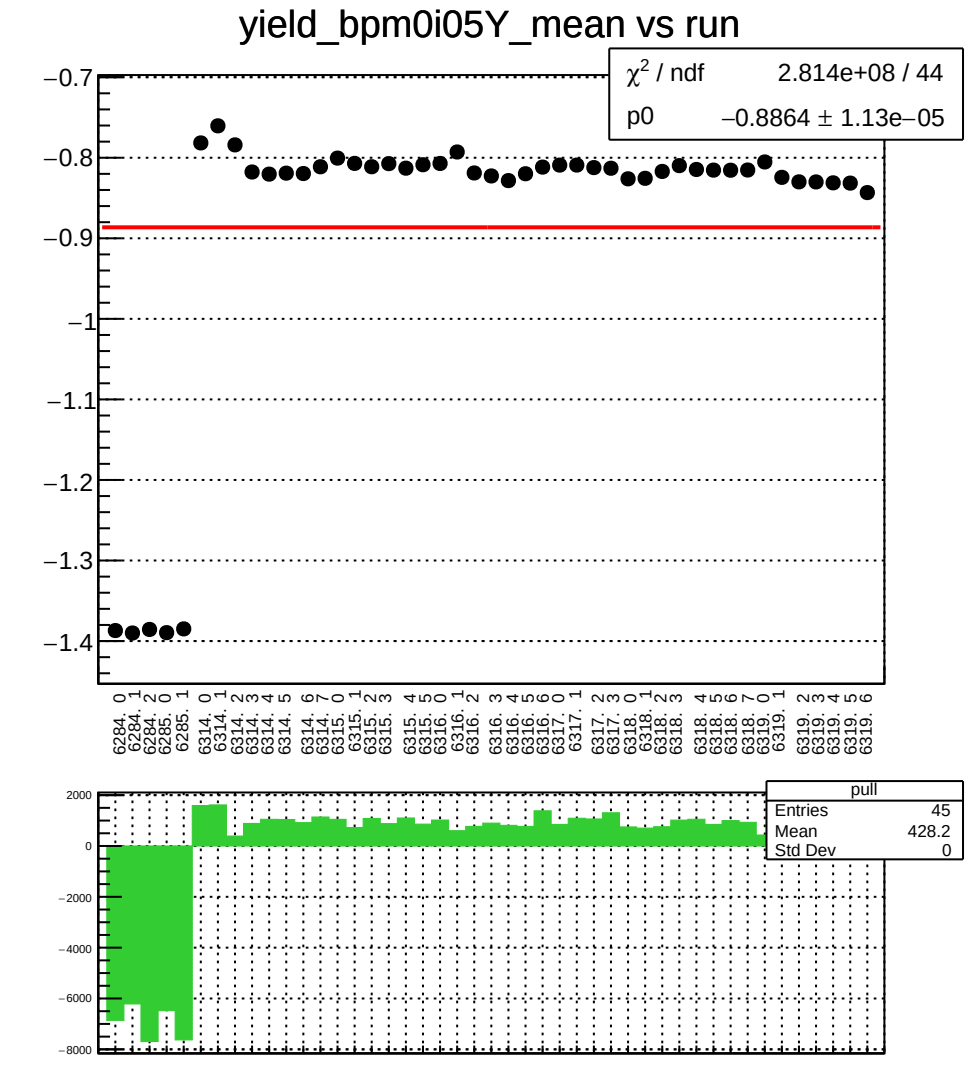
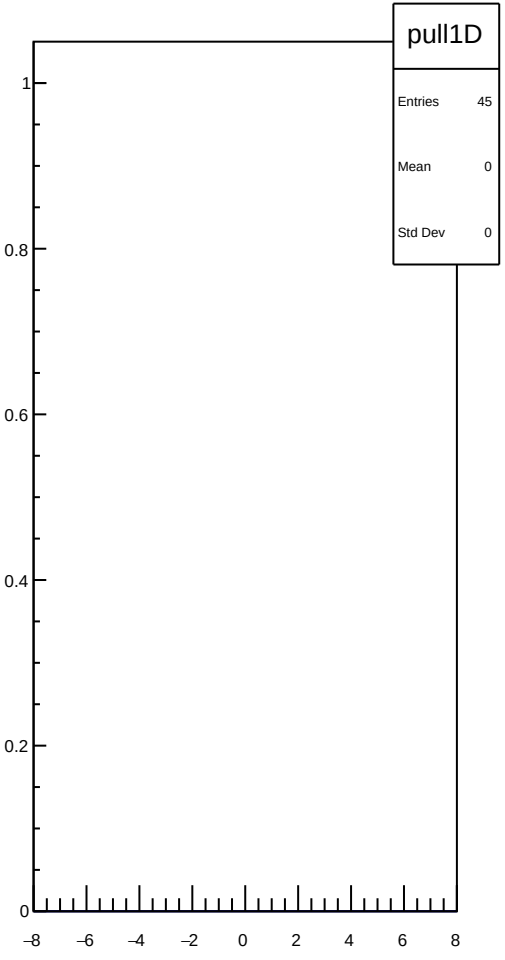
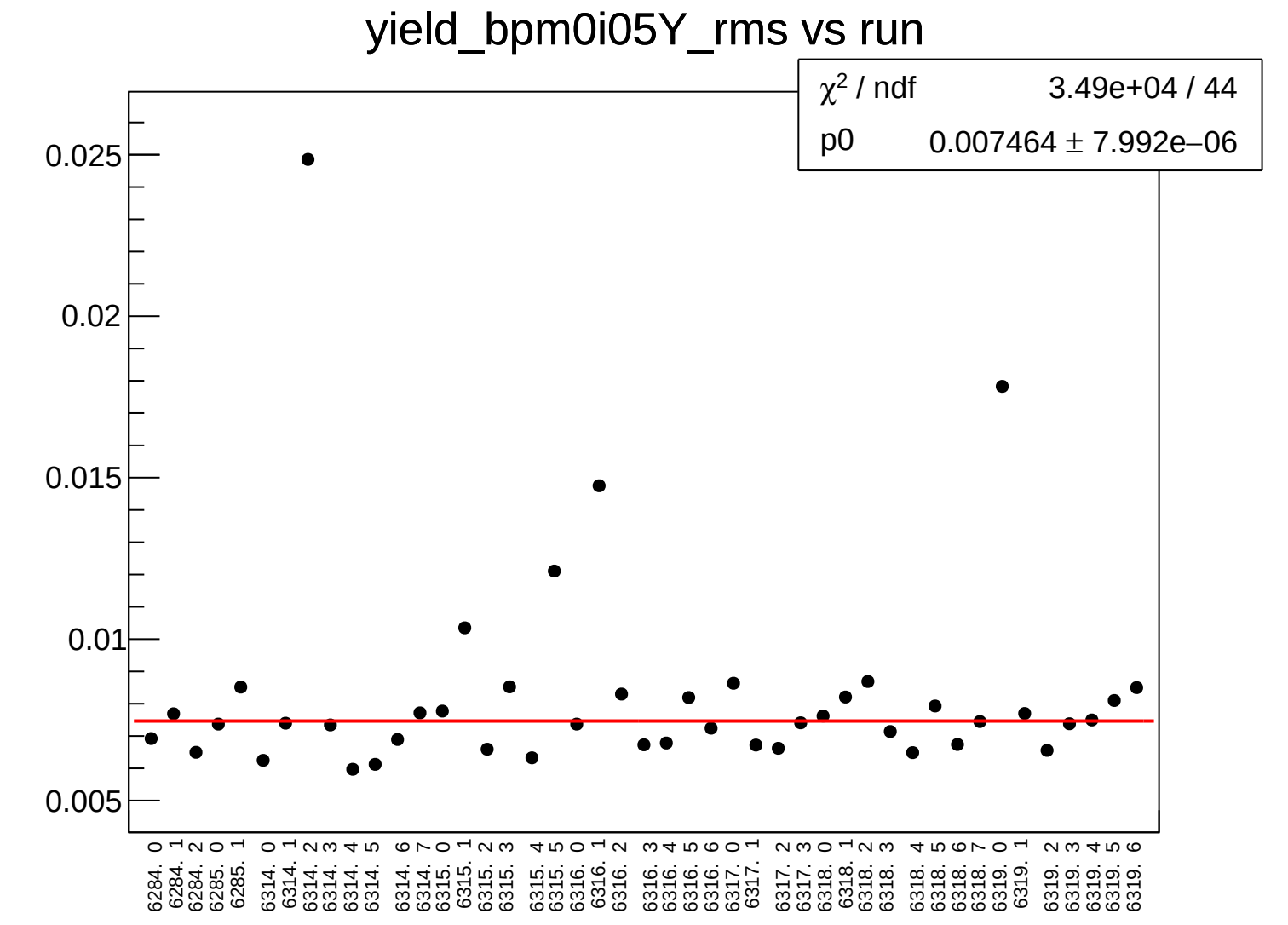
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 131.7
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i05X_rms vs run
χ² / ndf 1.199e+05 / 44
p0 0.01043 ± 1.176e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i05Y_mean vs run
χ² / ndf 2.814e+08 / 44
p0 −0.8864 ± 1.13e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 428.2
Std Dev 0
2000
0
−2000
−4000
−6000
−8000


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i05Y_rms vs run
χ² / ndf 3.49e+04 / 44
p0 0.007464 ± 7.992e−06
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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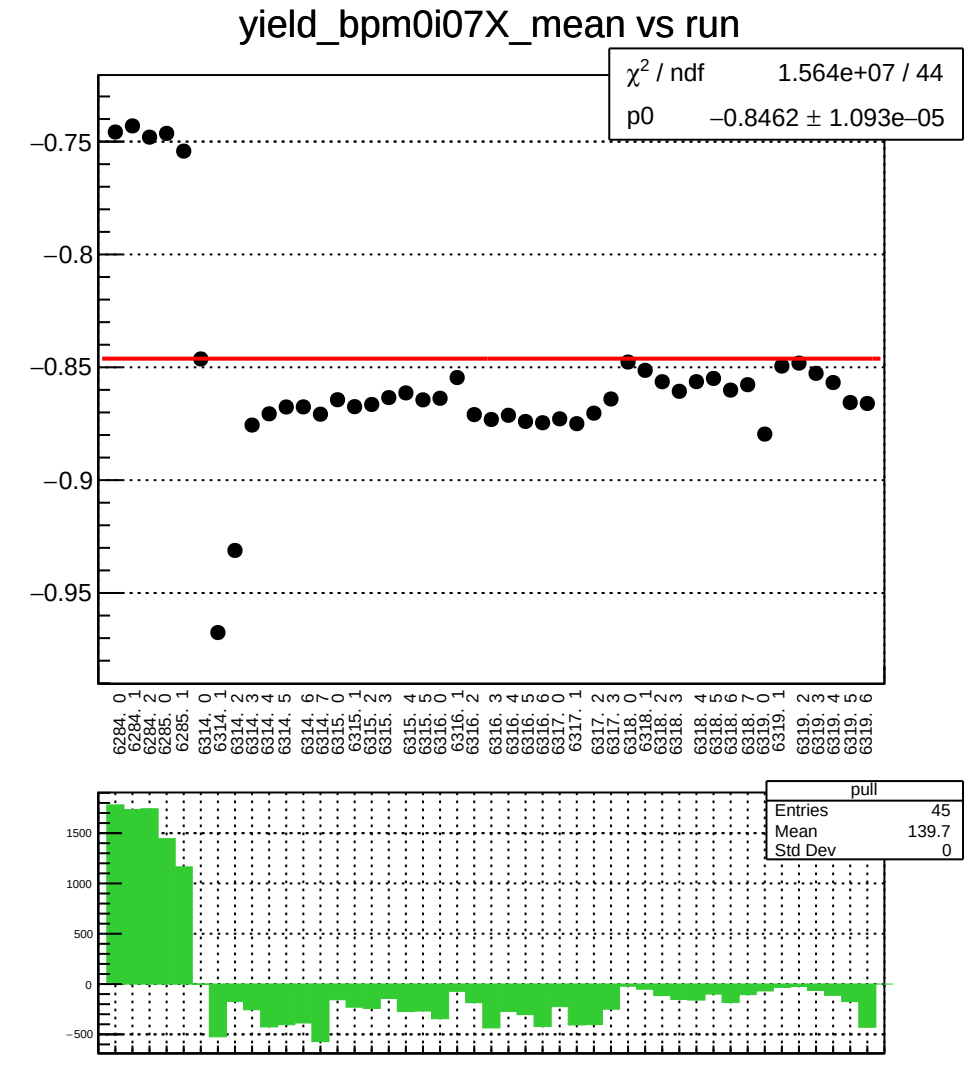
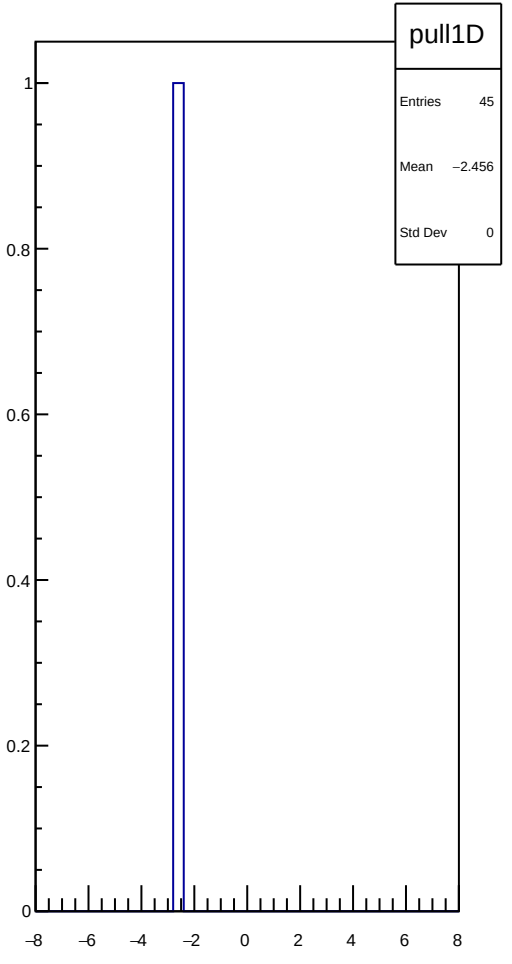
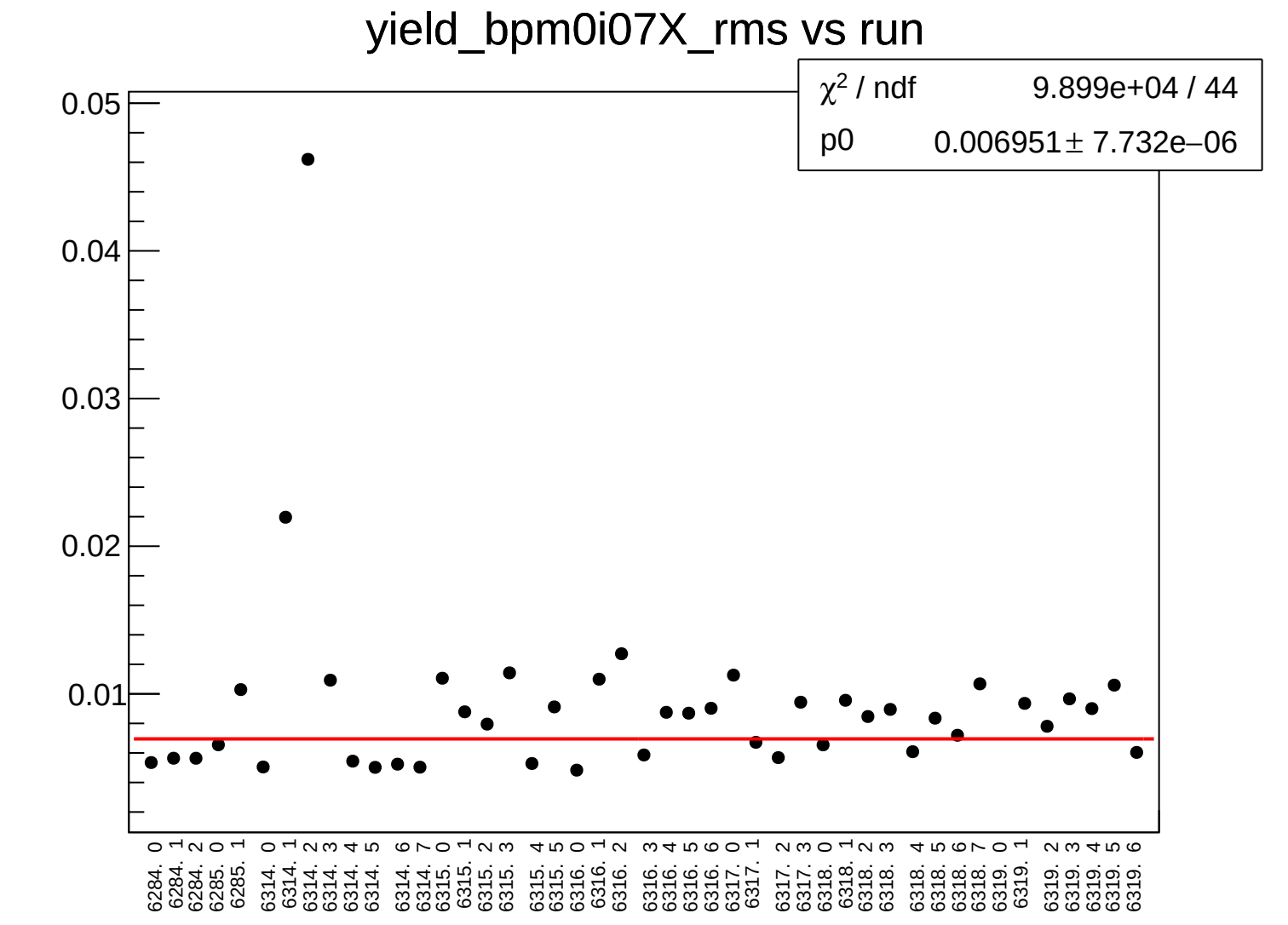
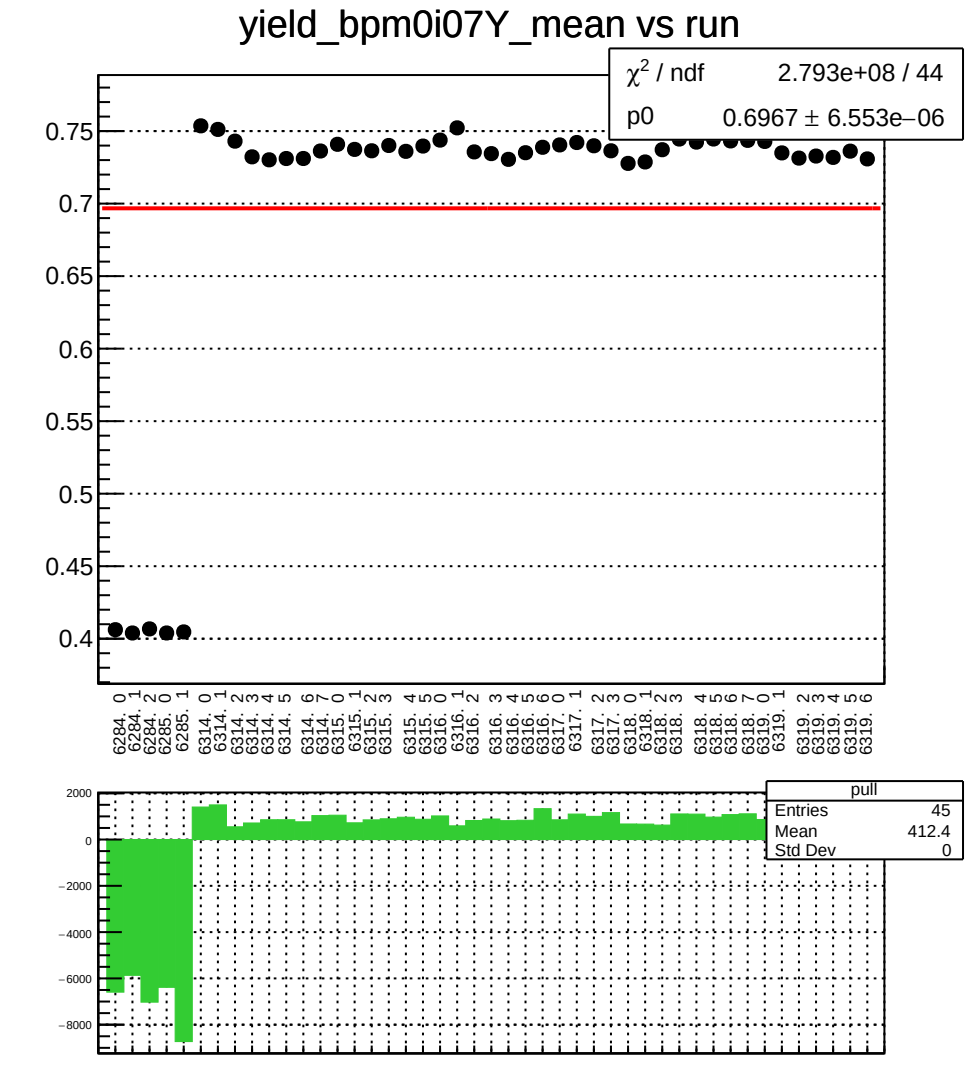
6319. 5
6319. 6


yield_bpm0i07X_mean vs run
χ² / ndf 1.564e+07 / 44
p0 −0.8462 ± 1.093e−05
−0.75
−0.8
−0.85
−0.9
−0.95
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 139.7
Std Dev 0
1500
1000
500
0
−500


pull1D
Entries 45
Mean −2.456
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07X_rms vs run
χ² / ndf 9.899e+04 / 44
p0 0.006951 ± 7.732e−06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0i07Y_mean vs run
χ² / ndf 2.793e+08 / 44
p0 0.6967 ± 6.553e−06
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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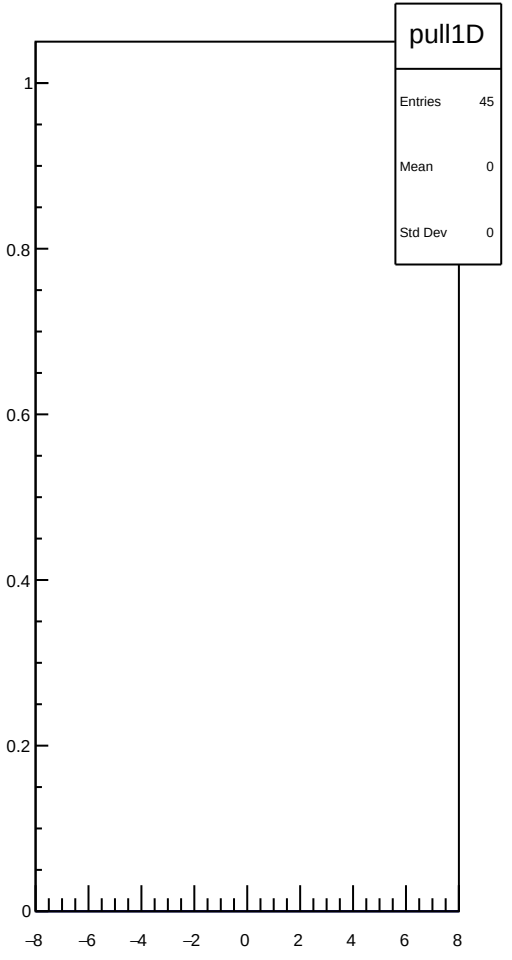
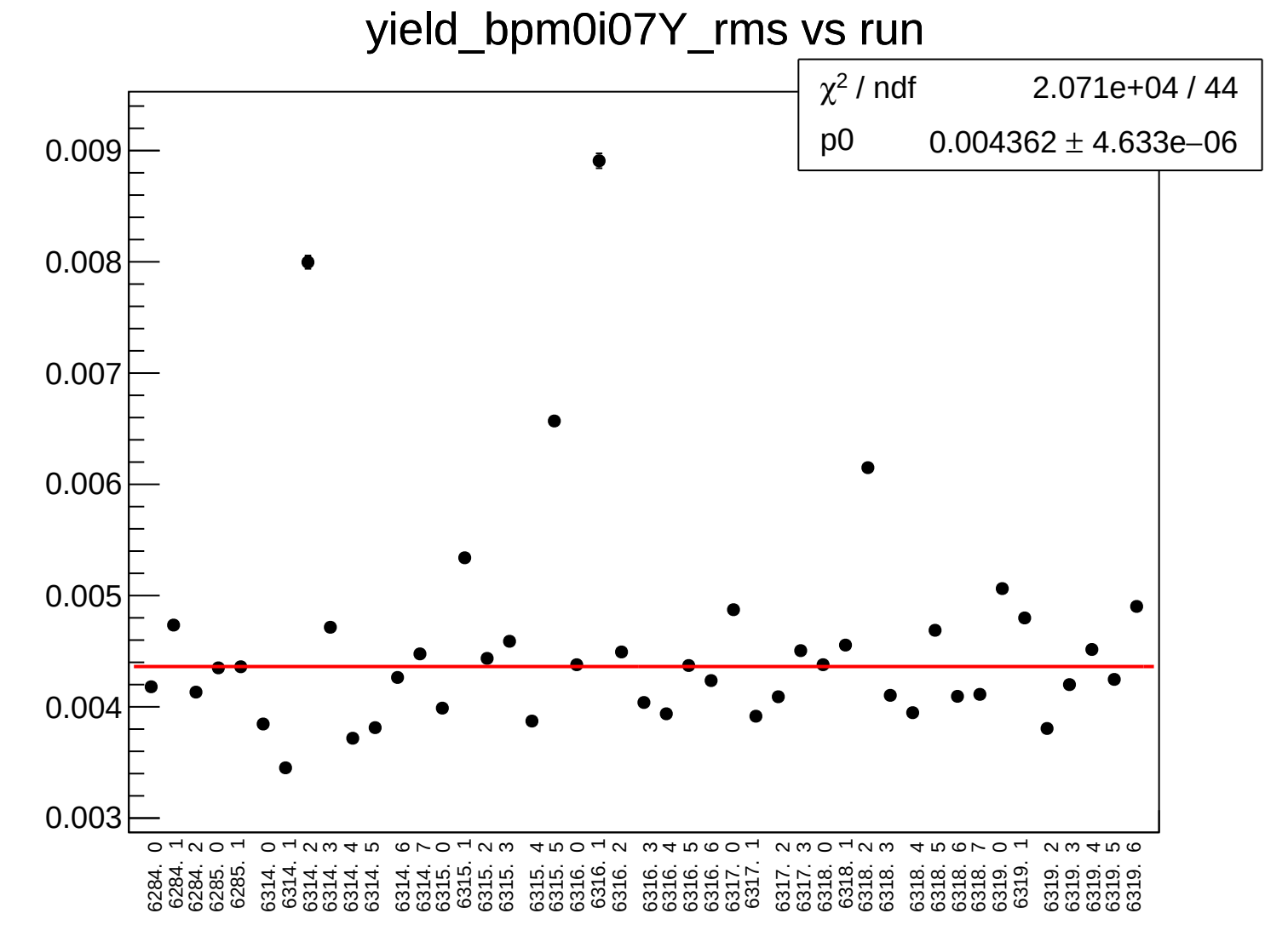
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
2000
0
−2000
−4000
−6000
−8000
pull
Entries 45
Mean 412.4
Std Dev 0


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07Y_rms vs run
χ² / ndf 2.071e+04 / 44
p0 0.004362 ± 4.633e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 7
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6315. 2
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6315. 4
6315. 5
6316. 0
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6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 2
6319. 3
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6319. 5
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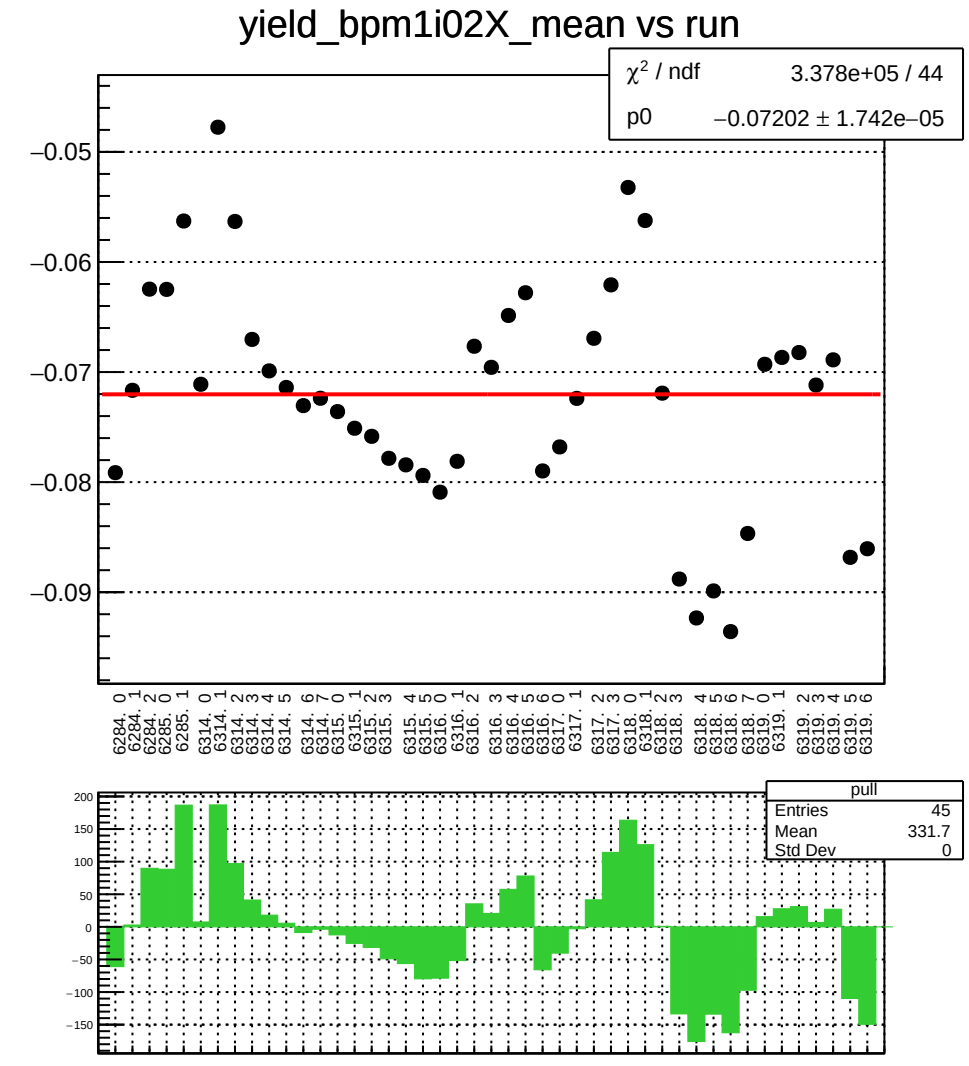
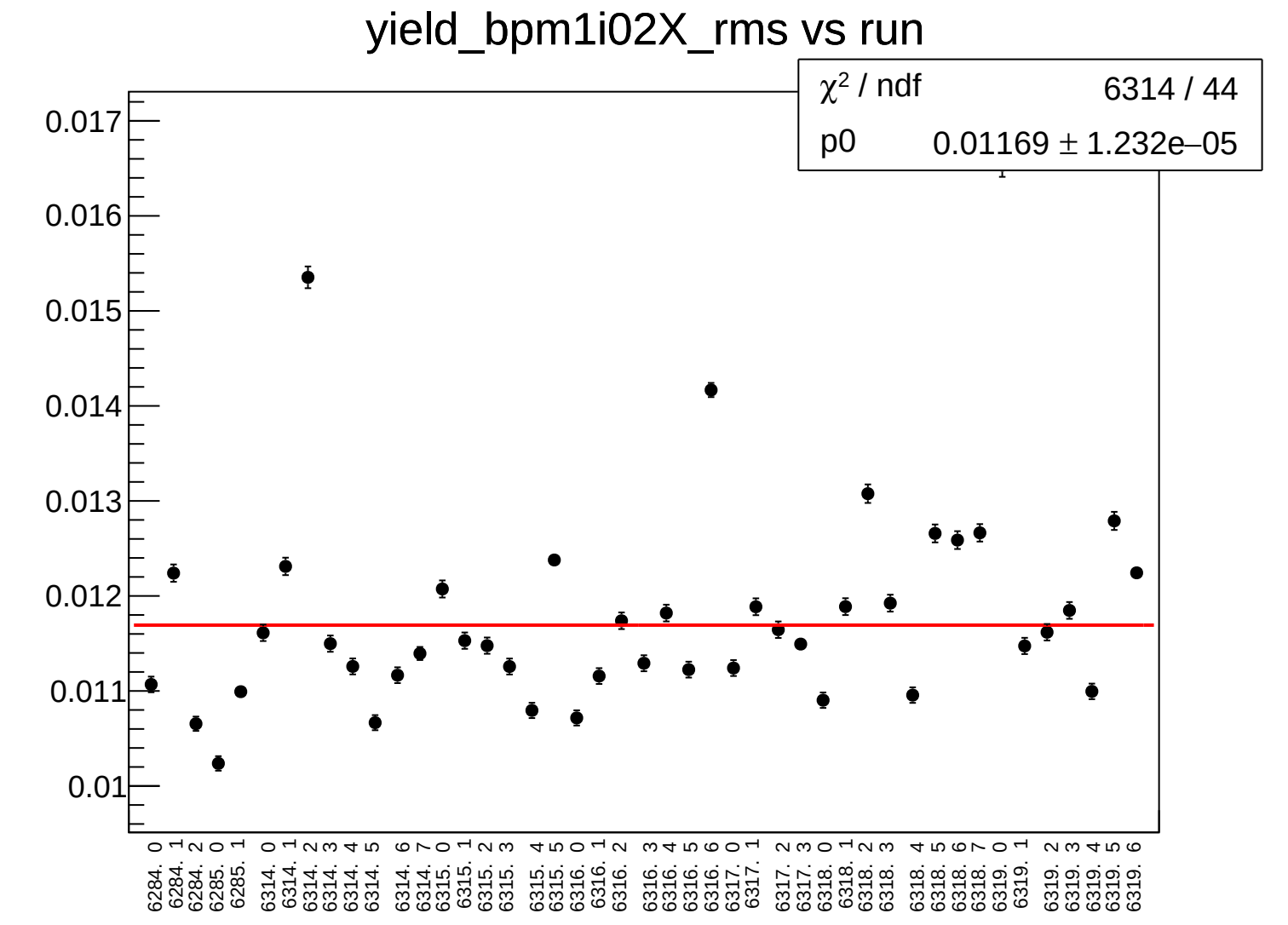
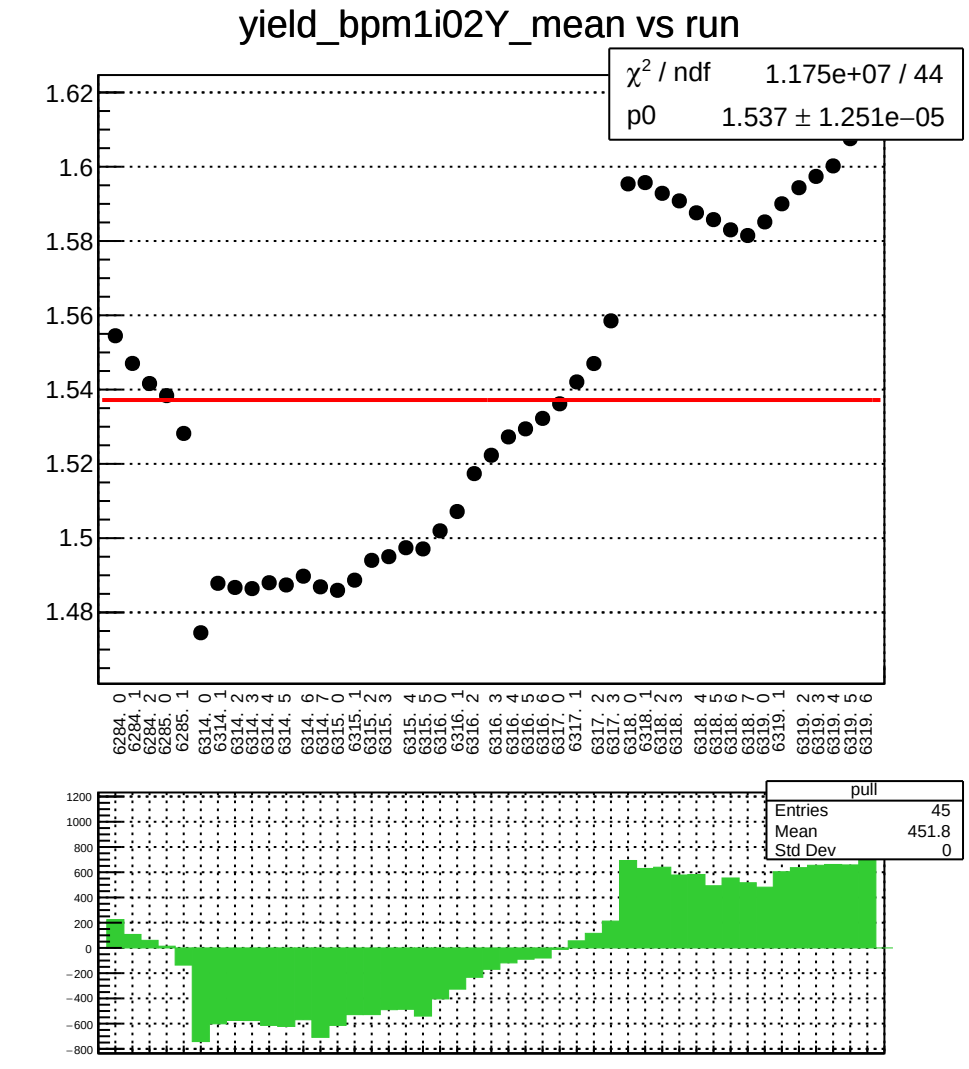
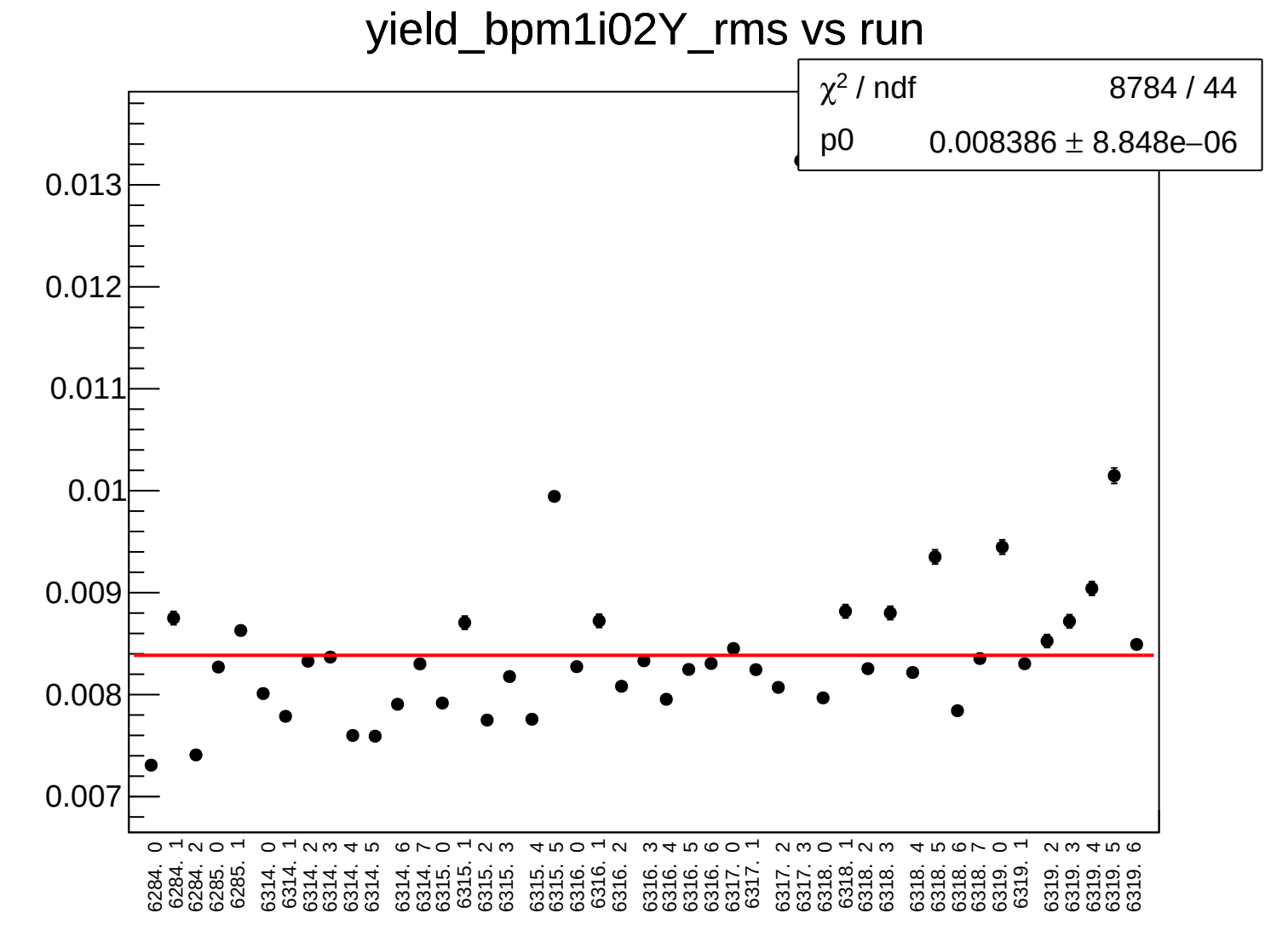
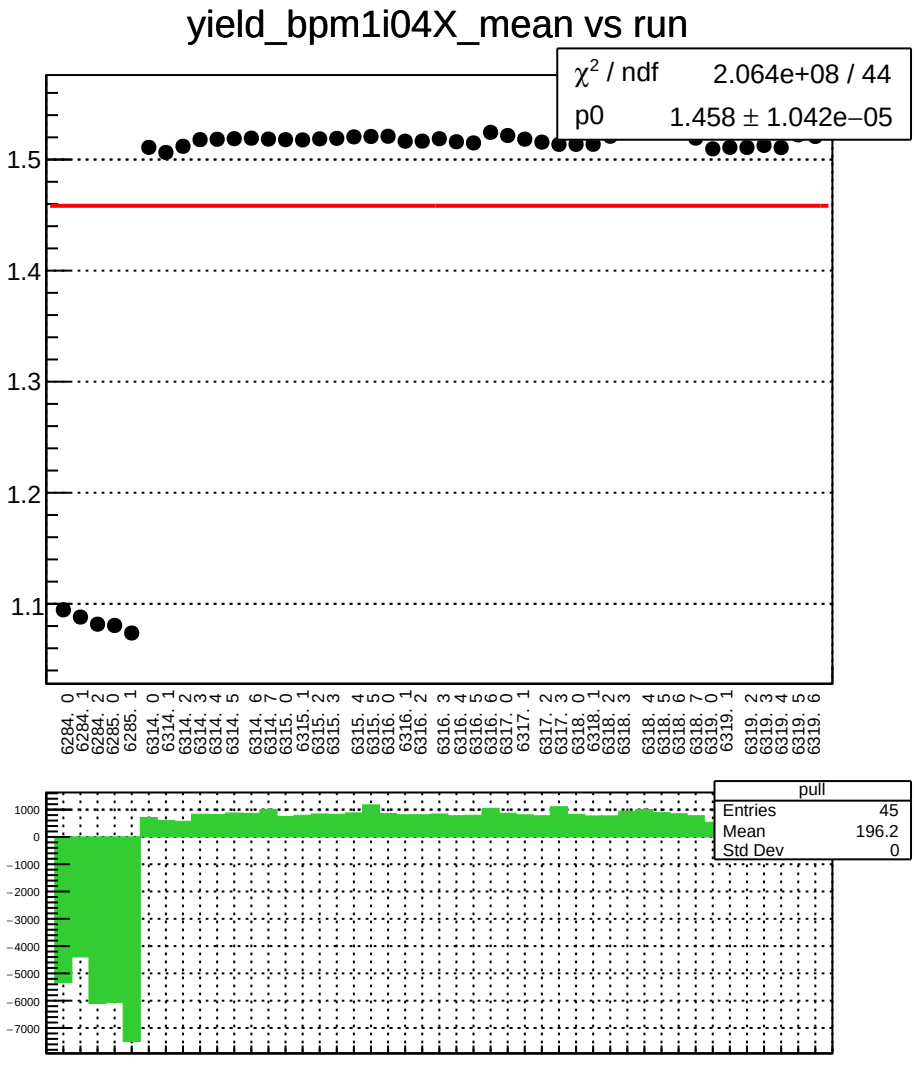
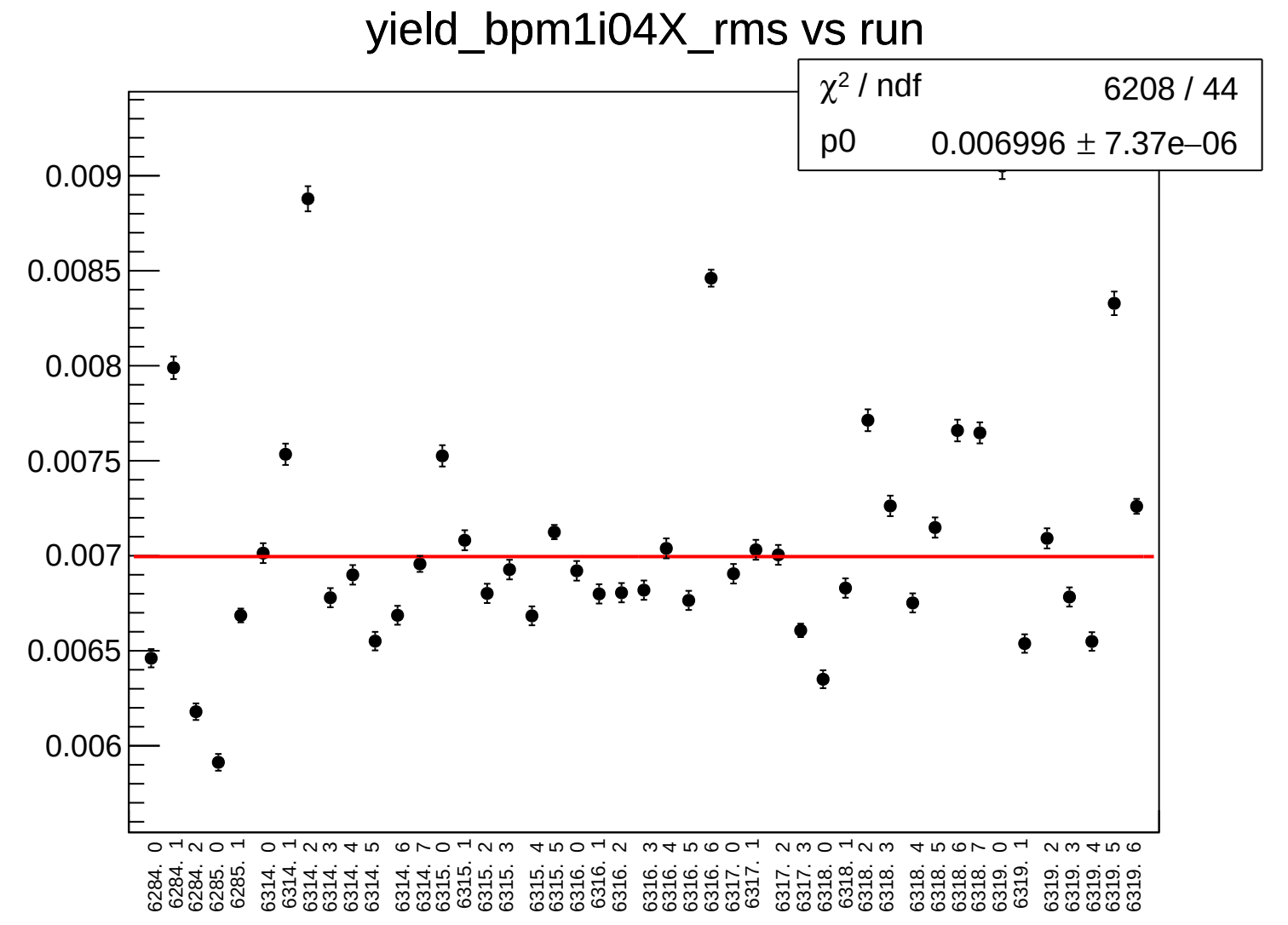

yield_bpm1i02X_mean vs run
χ² / ndf 3.378e+05 / 44
p0 −0.07202 ± 1.742e−05
−0.05
−0.06
−0.07
−0.08
−0.09
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 331.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 2.401
Std Dev 4.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i02X_rms vs run
χ² / ndf 6314 / 44
p0 0.01169 ± 1.232e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i02Y_mean vs run
χ² / ndf 1.175e+07 / 44
p0 1.537 ± 1.251e−05
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 451.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i02Y_rms vs run
χ² / ndf 8784 / 44
p0 0.008386 ± 8.848e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i04X_mean vs run
χ² / ndf 2.064e+08 / 44
p0 1.458 ± 1.042e−05
1.5
1.4
1.3
1.2
1.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 196.2
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i04X_rms vs run
χ² / ndf 6208 / 44
p0 0.006996 ± 7.37e–06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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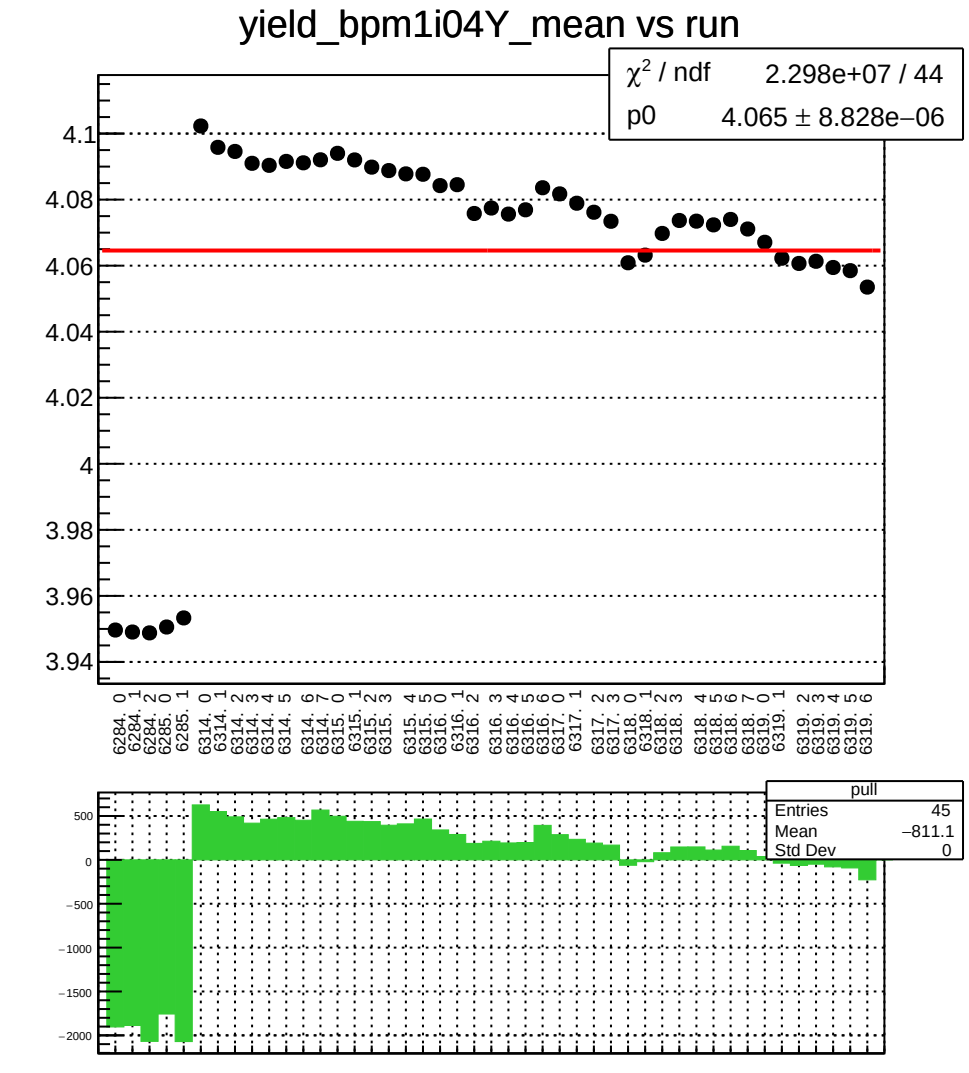
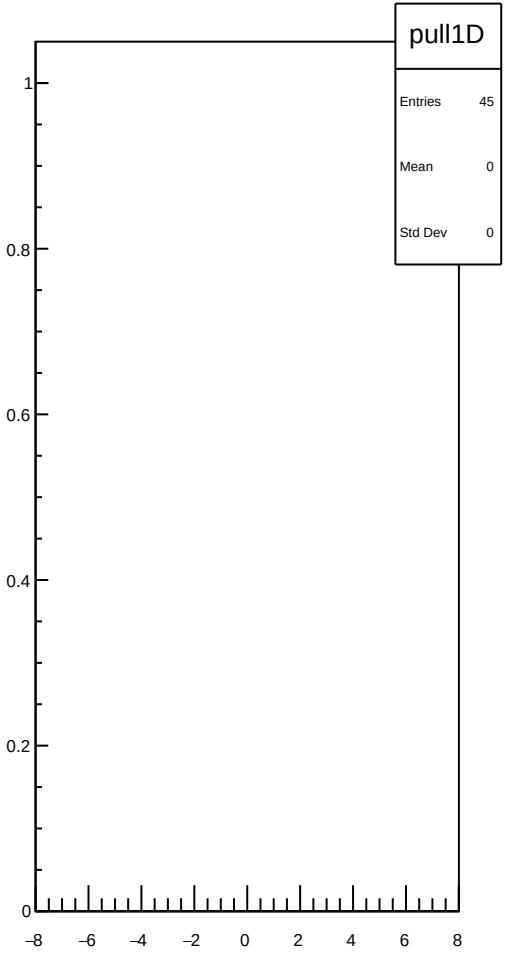
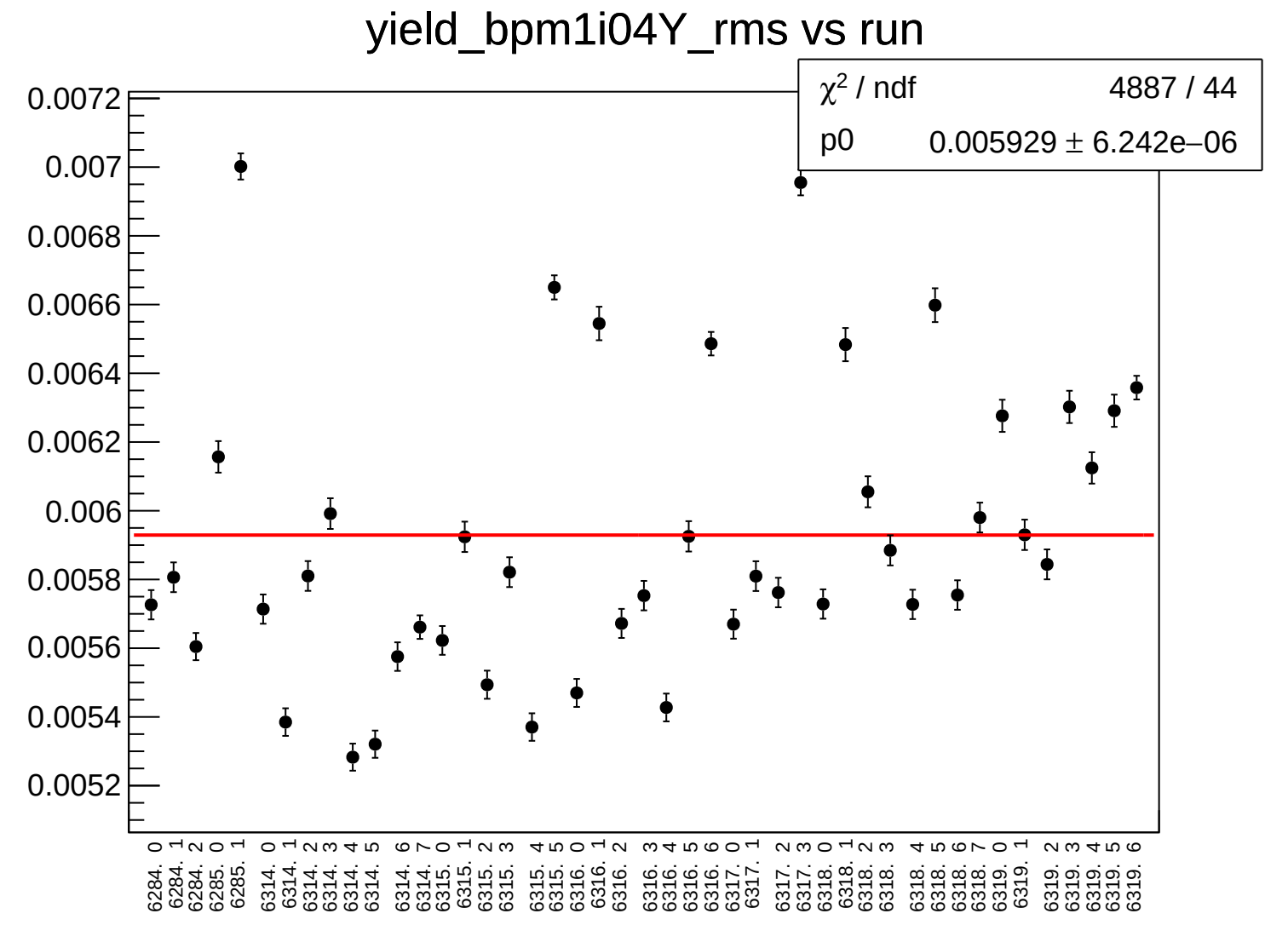
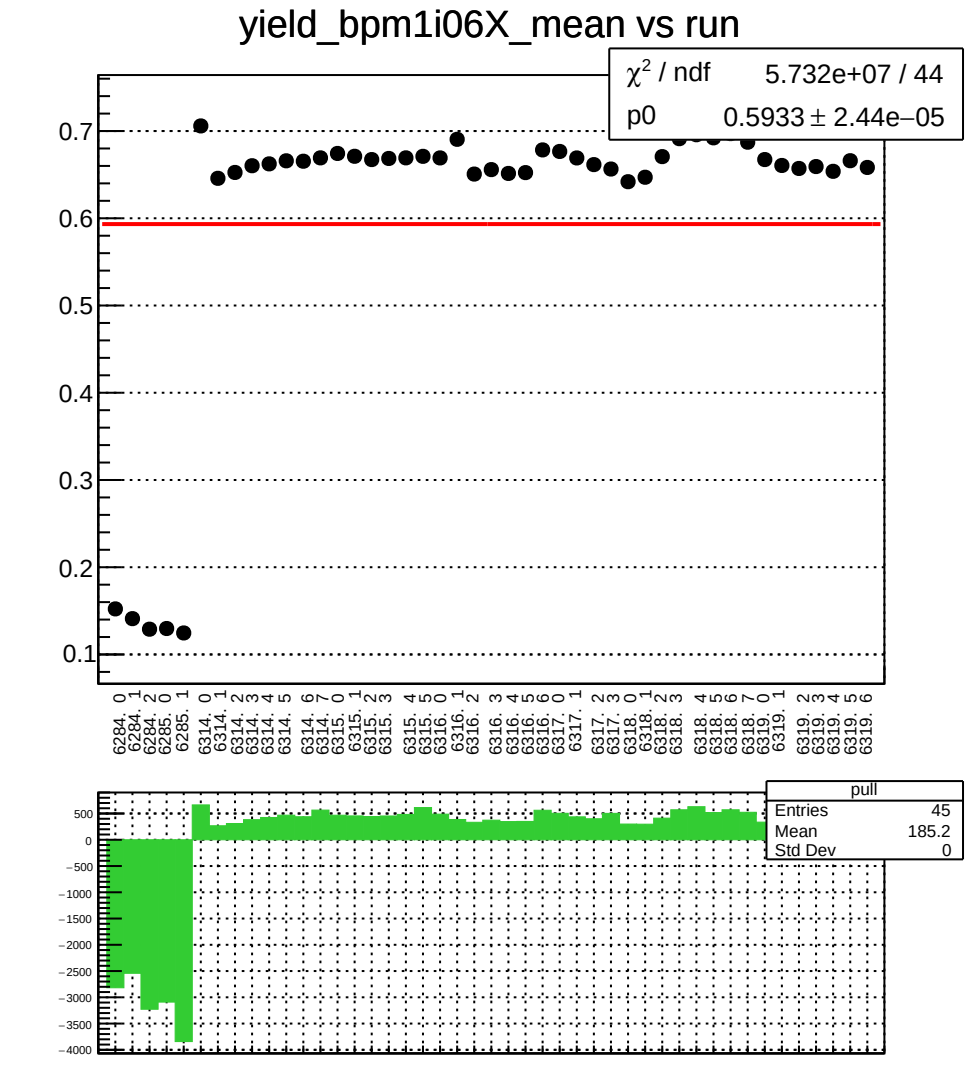
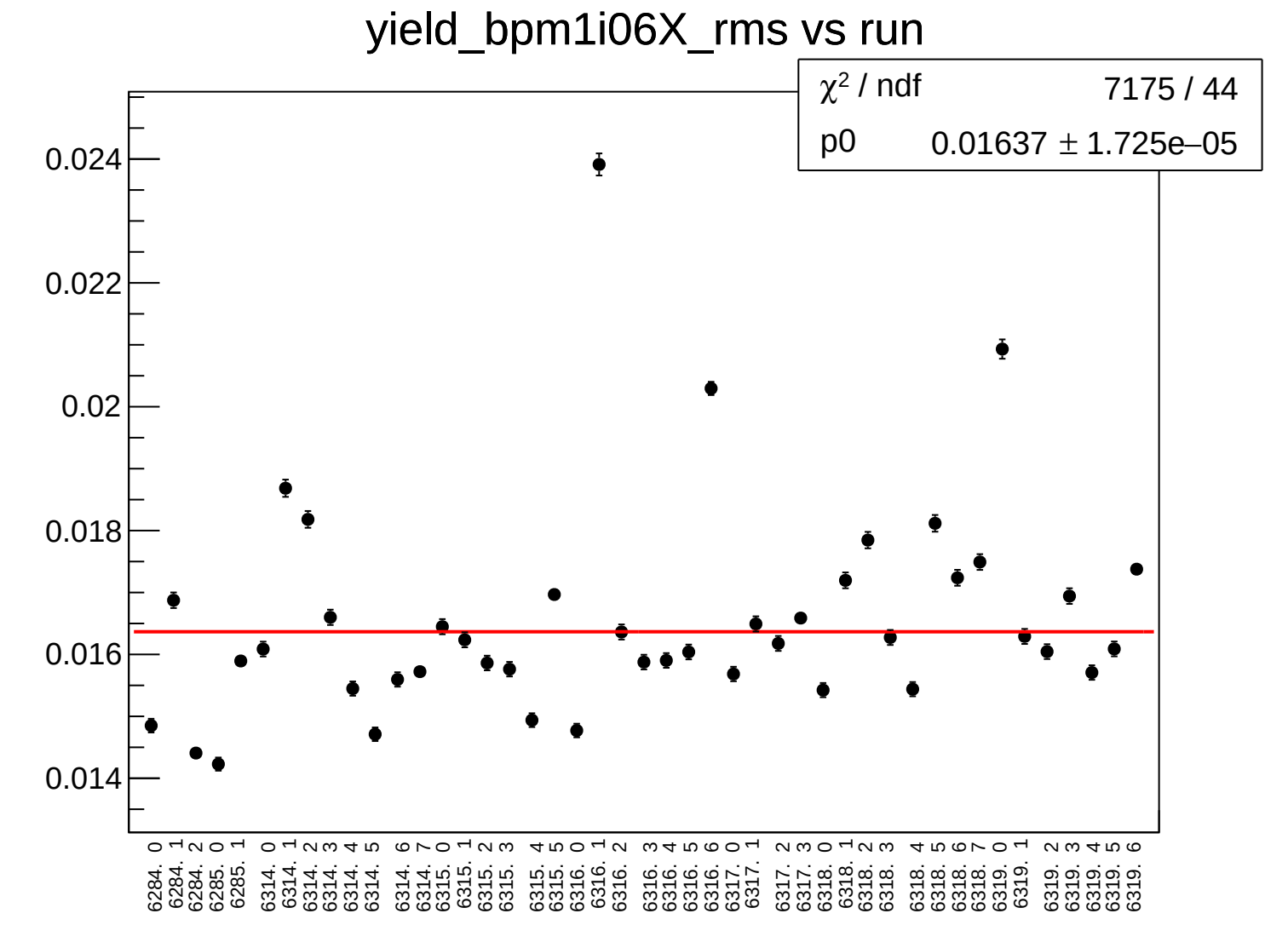
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

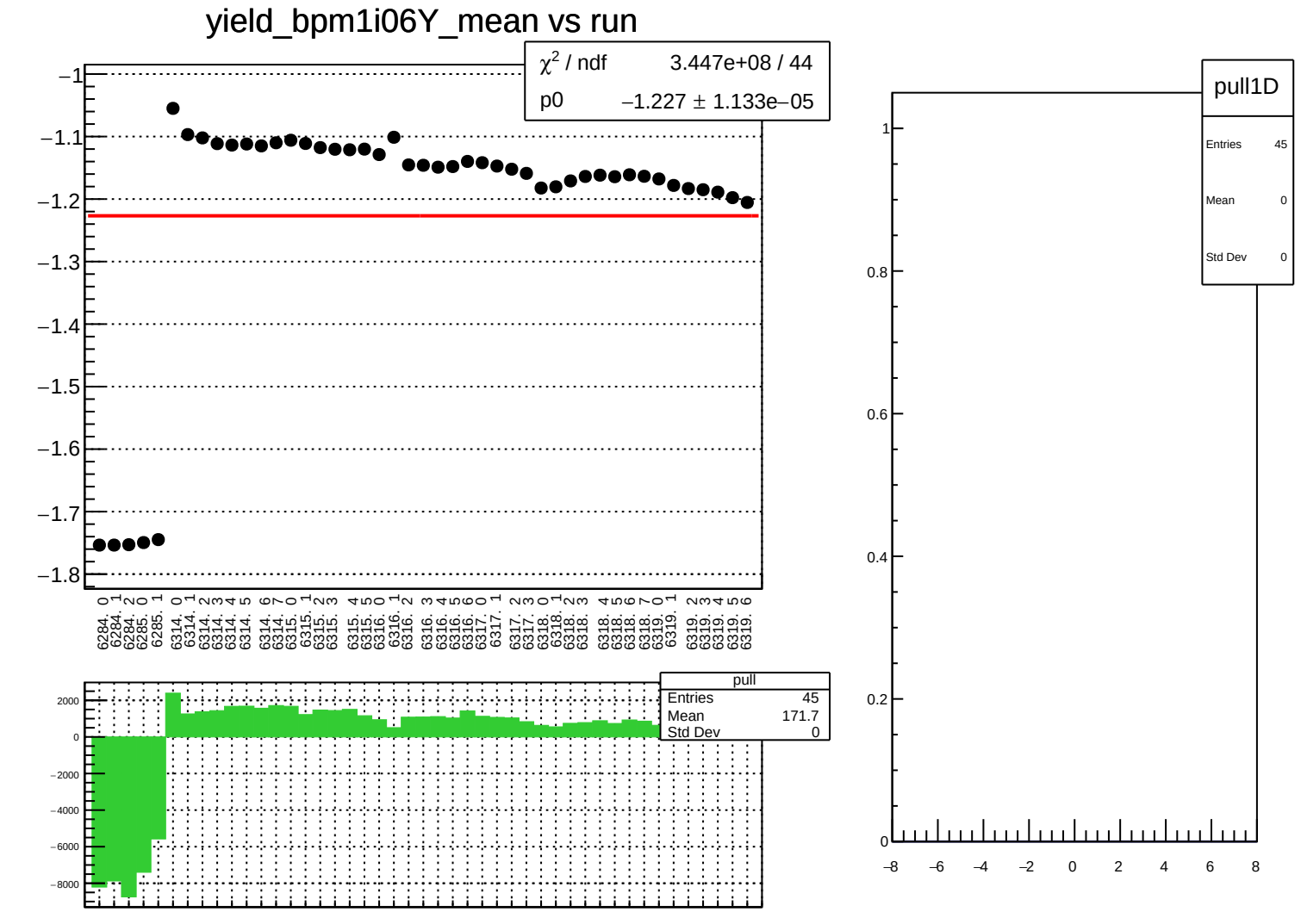

yield_bpm1i04Y_mean vs run
χ² / ndf 2.298e+07 / 44
p0 4.065 ± 8.828e−06
4.1
4.08
4.06
4.04
4.02
4
3.98
3.96
3.94
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −811.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

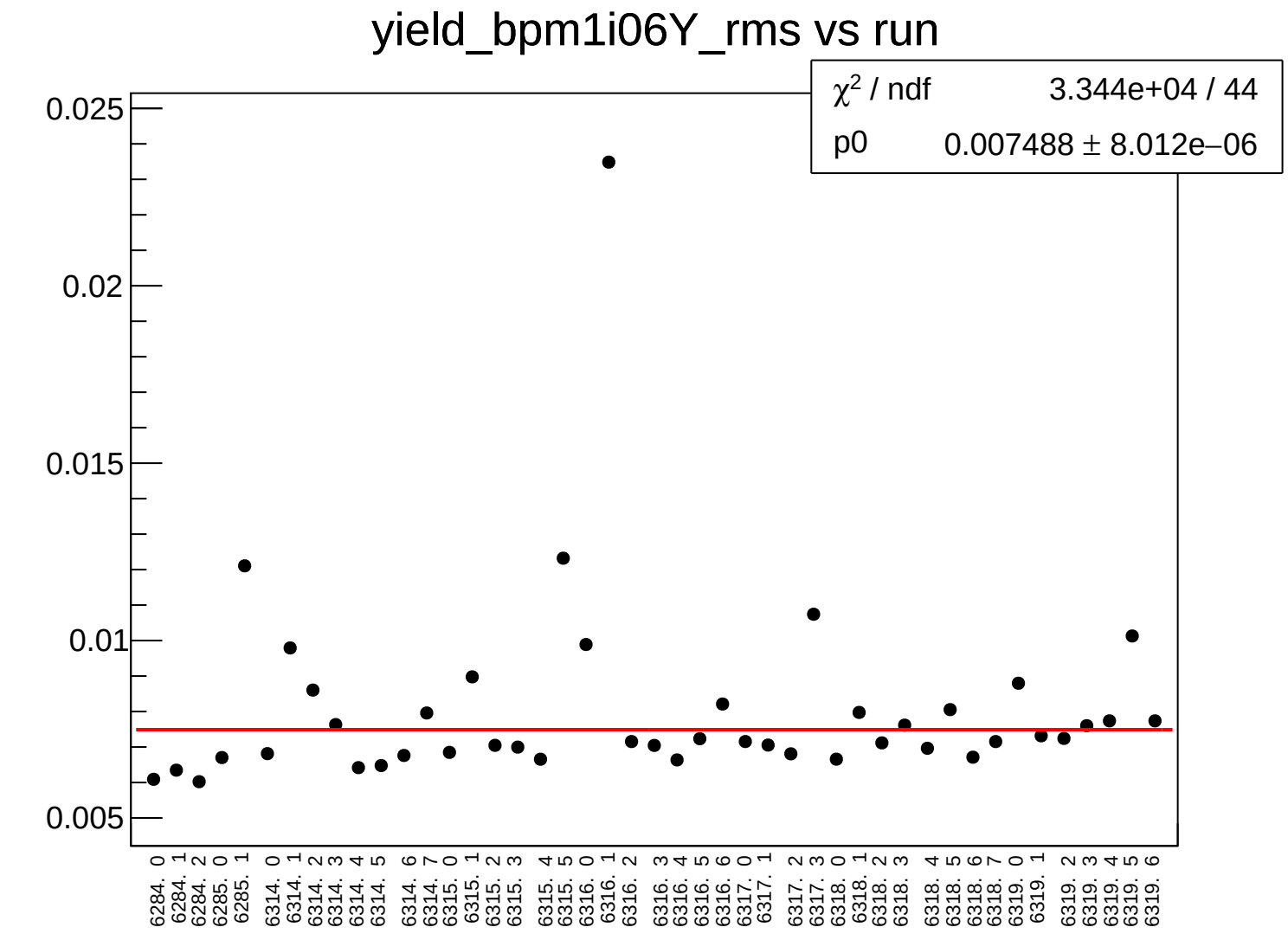

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i04Y_rms vs run
χ² / ndf 4887 / 44
p0 0.005929 ± 6.242e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i06X_mean vs run
χ² / ndf 5.732e+07 / 44
p0 0.5933 ± 2.44e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 185.2
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
−4000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i06X_rms vs run
χ² / ndf 7175 / 44
p0 0.01637 ± 1.725e–05
0.024
0.022
0.02
0.018
0.016
0.014
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm1i06Y_mean vs run
χ² / ndf 3.447e+08 / 44
p0 −1.227 ± 1.133e−05
pull
Entries 45
Mean 171.7
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0


yield_bpm1i06Y_rms vs run
χ² / ndf 3.344e+04 / 44
p0 0.007488 ± 8.012e−06
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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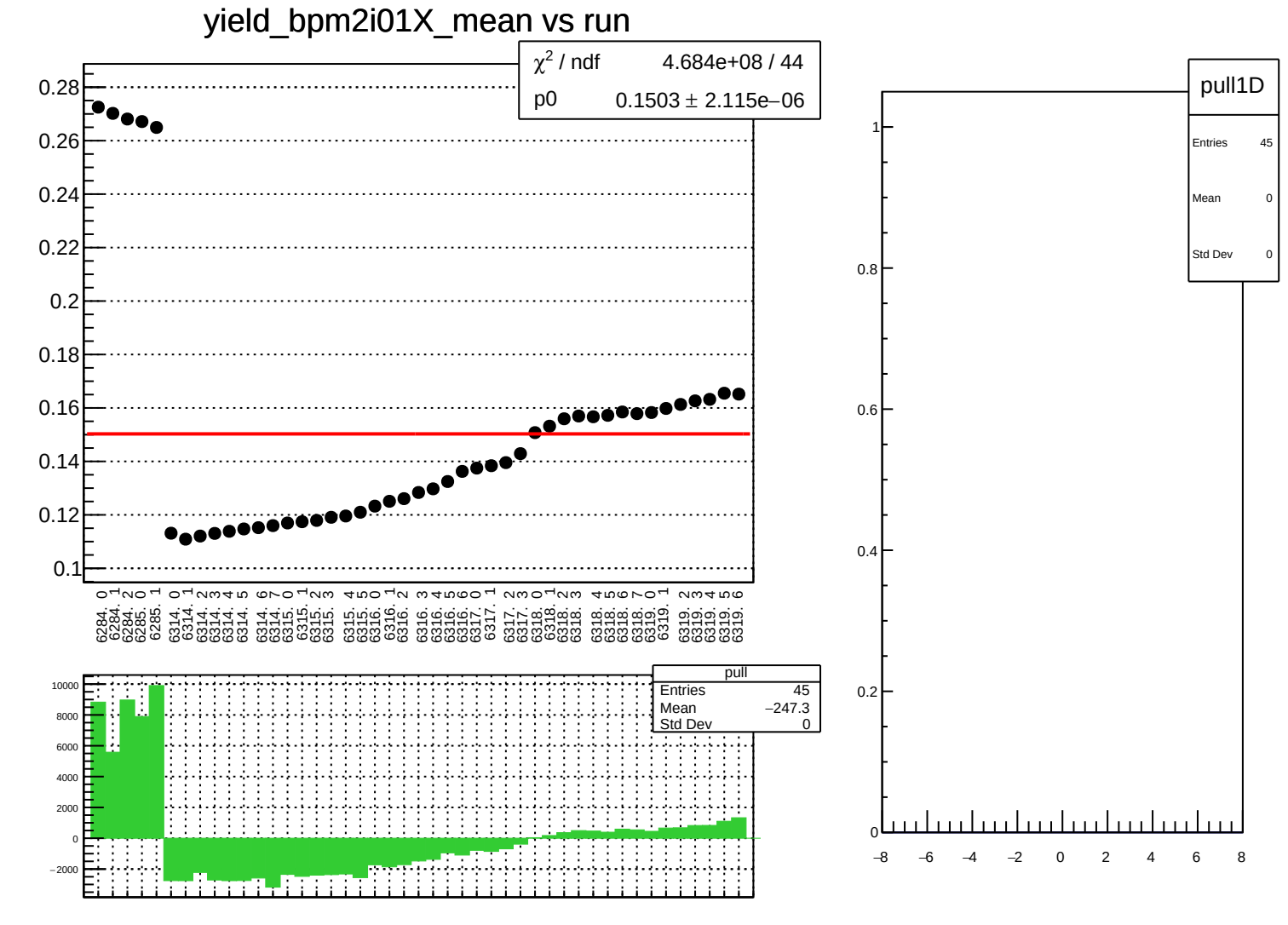
6319. 6


yield_bpm2i01X_mean vs run
χ² / ndf 4.684e+08 / 44
p0 0.1503 ± 2.115e−06
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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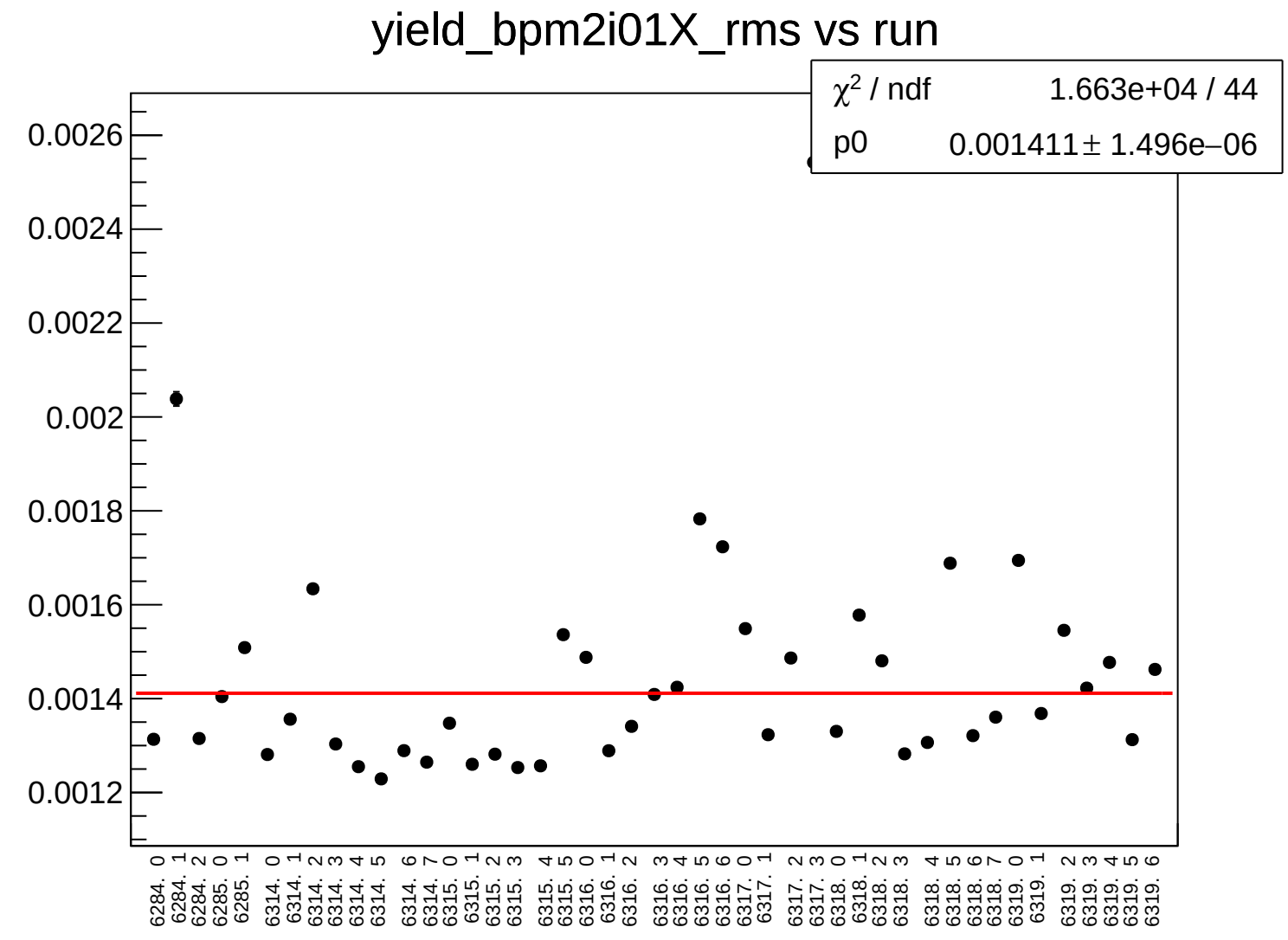
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −247.3
Std Dev 0
10000
8000
6000
4000
2000
0
−2000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01X_rms vs run
χ² / ndf 1.663e+04 / 44
p0 0.001411 ± 1.496e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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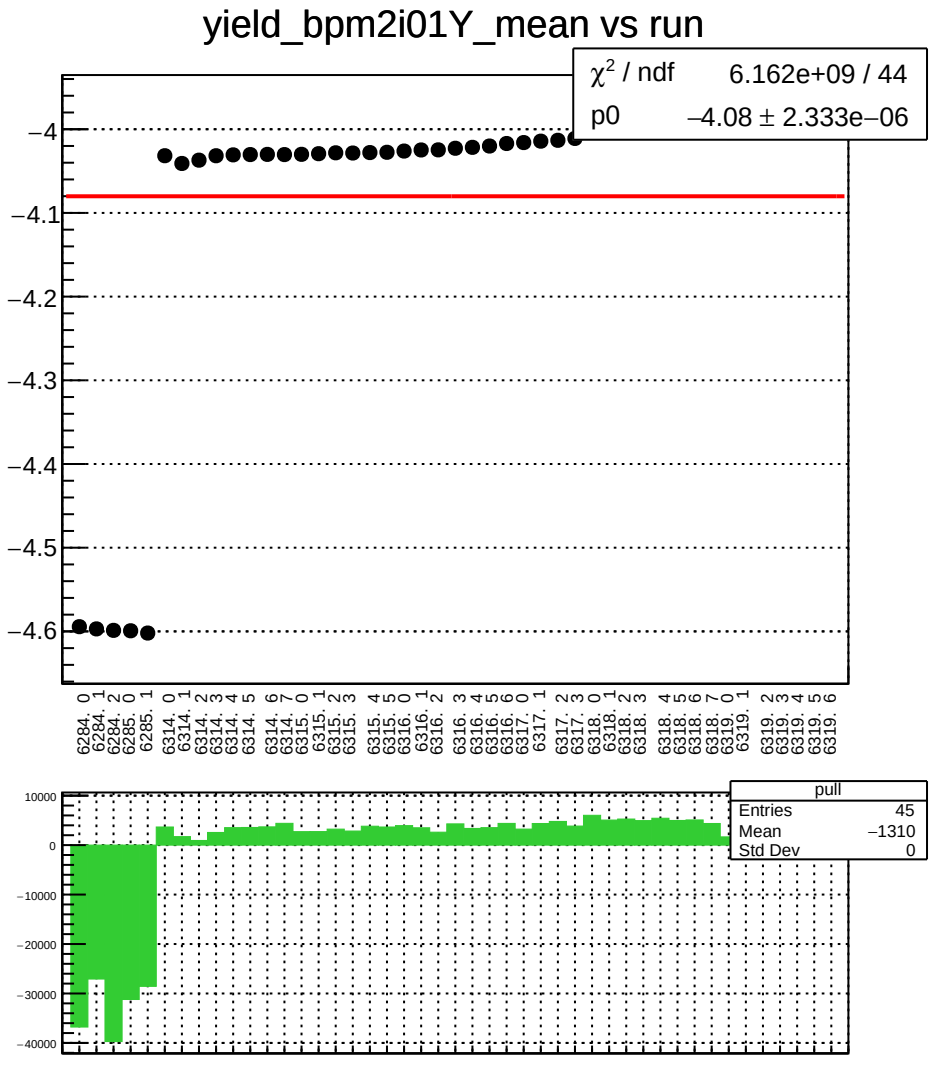
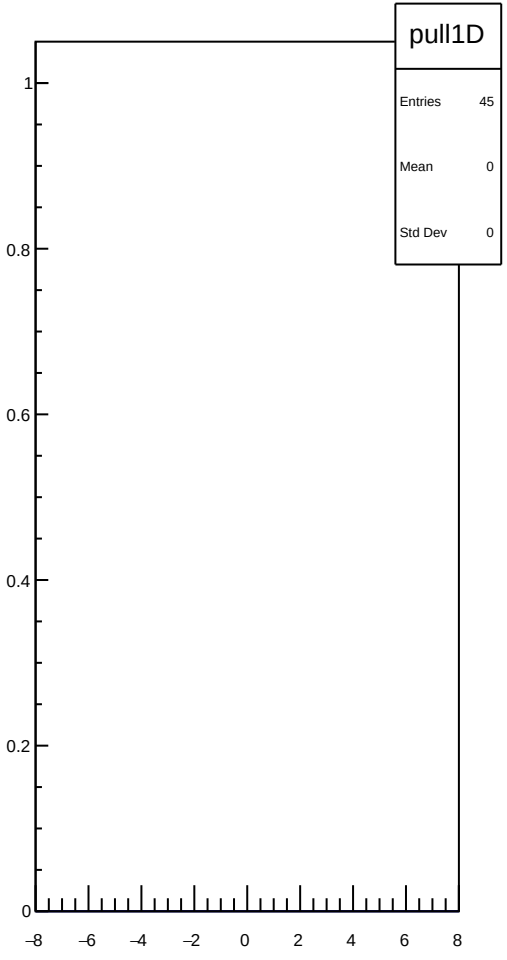
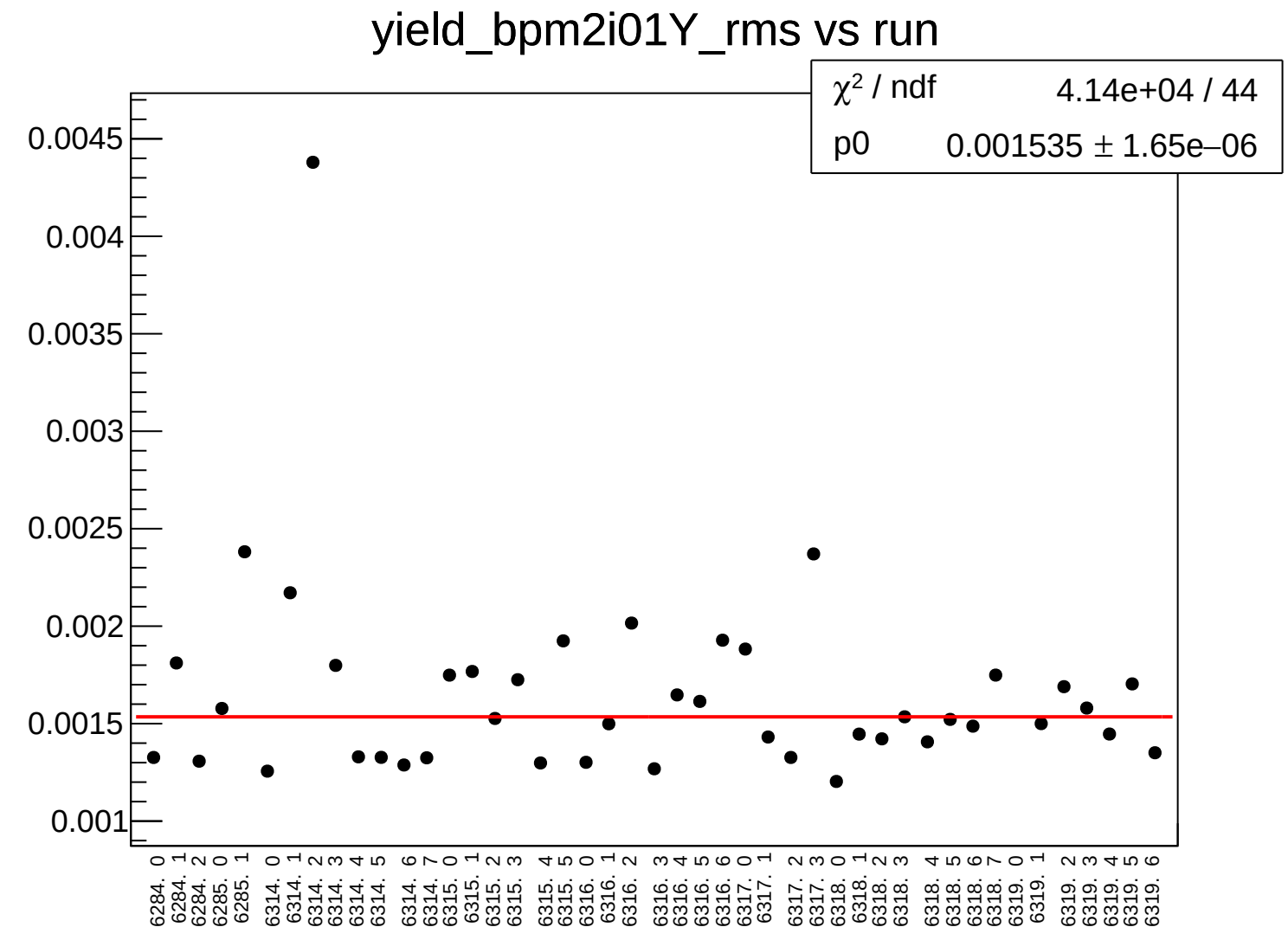
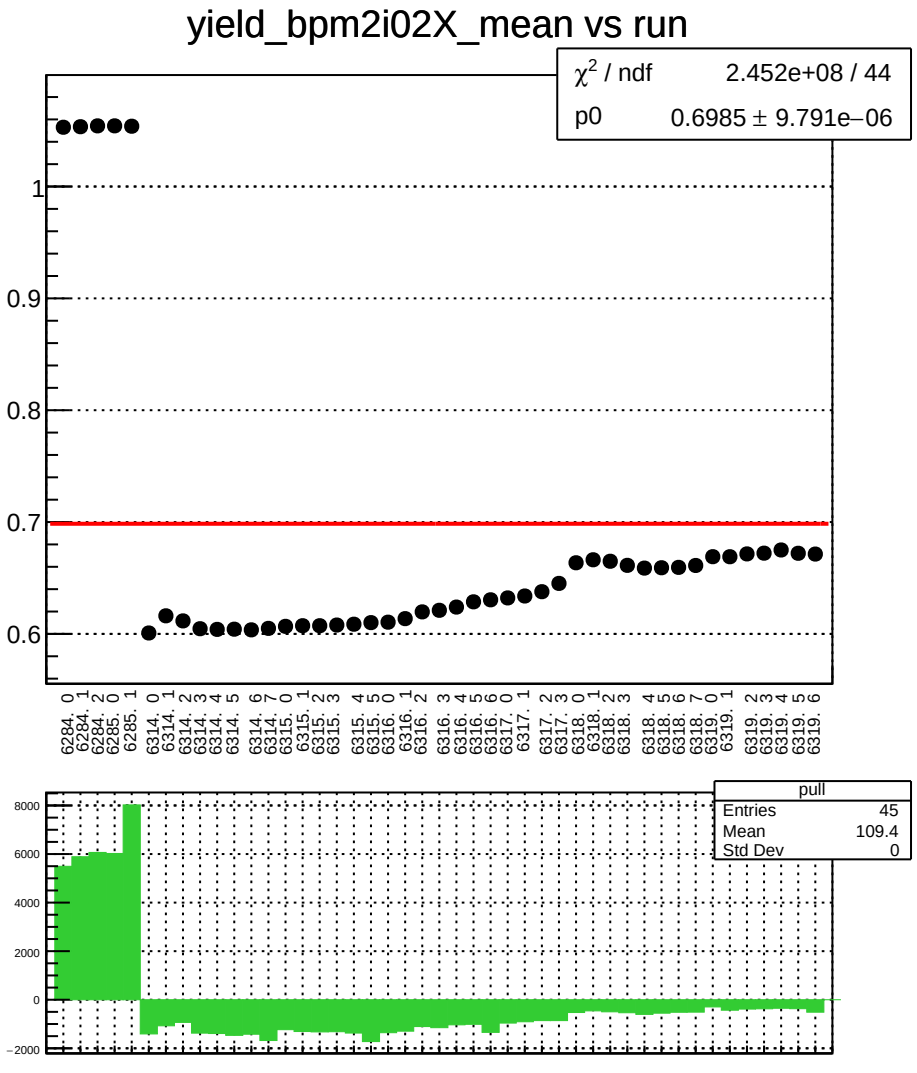
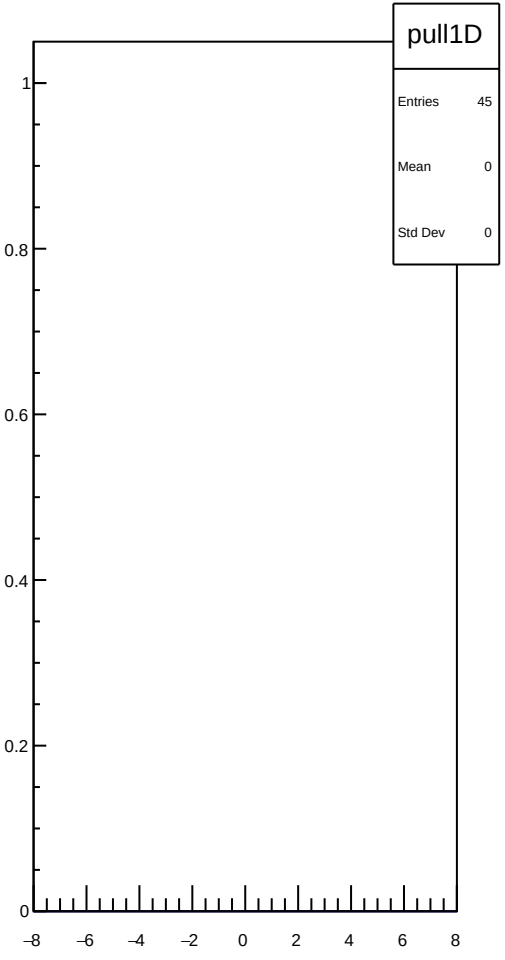
6319. 6

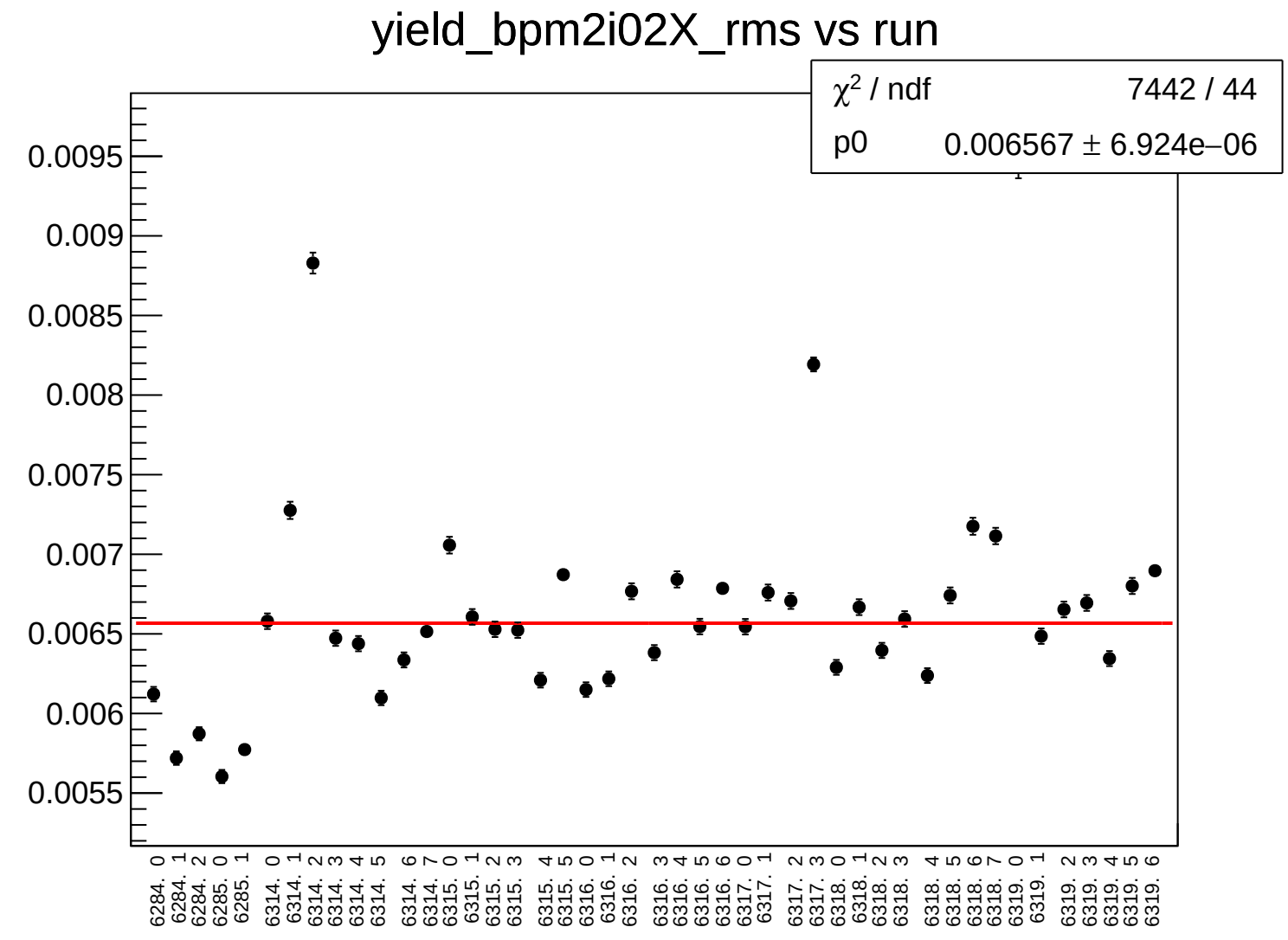

yield_bpm2i01Y_mean vs run
χ² / ndf 6.162e+09 / 44
p0 −4.08 ± 2.333e−06
−4
−4.1
−4.2
−4.3
−4.4
−4.5
−4.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
10000
0
−10000
−20000
−30000
−40000
pull
Entries 45
Mean −1310
Std Dev 0

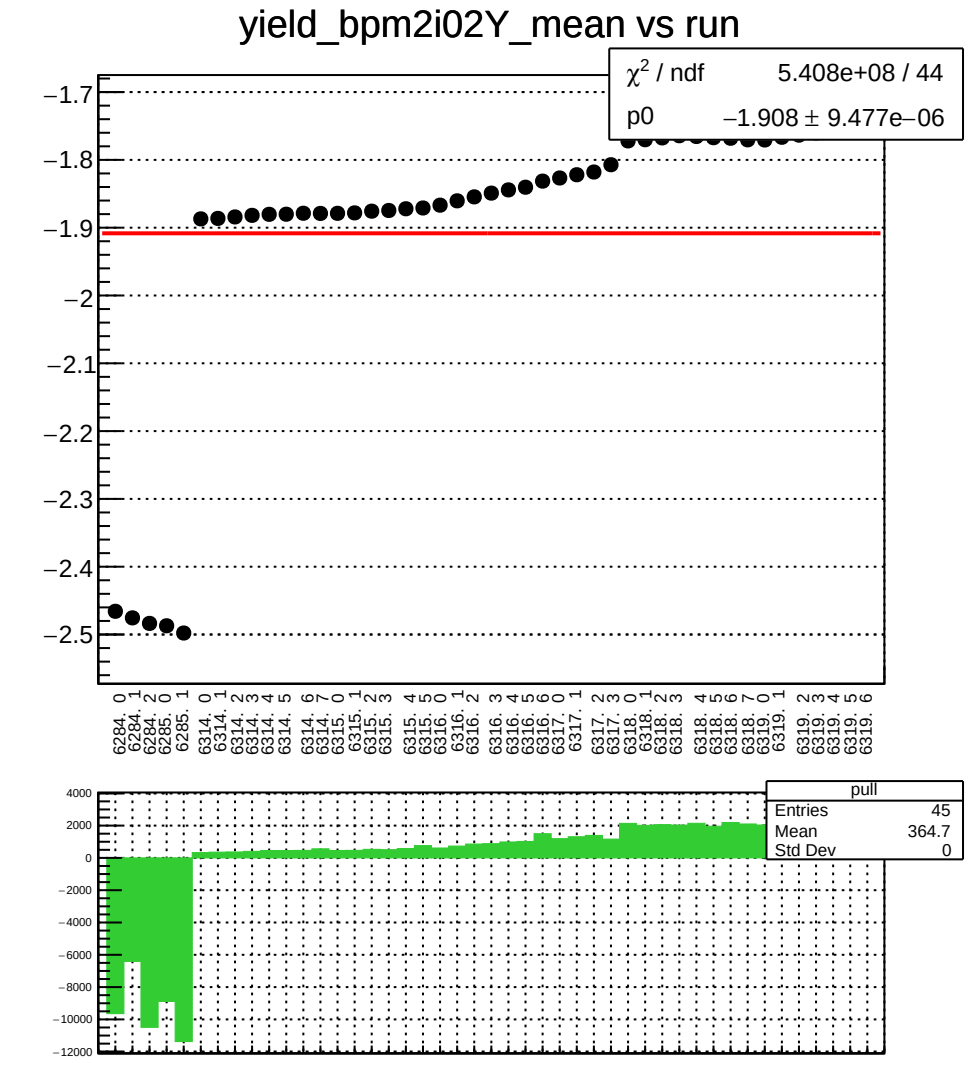

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

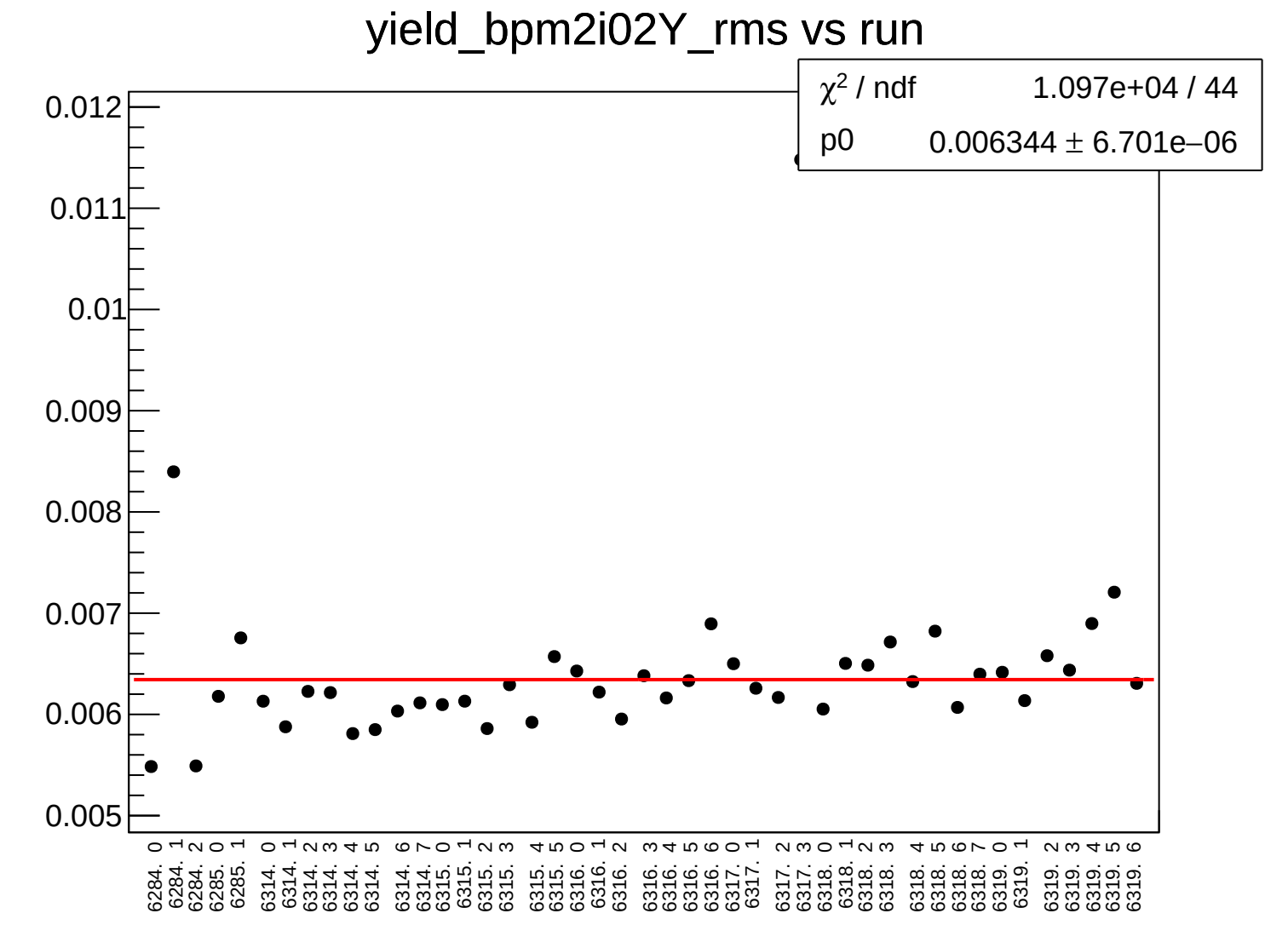

yield_bpm2i01Y_rms vs run
χ² / ndf 4.14e+04 / 44
p0 0.001535 ± 1.65e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

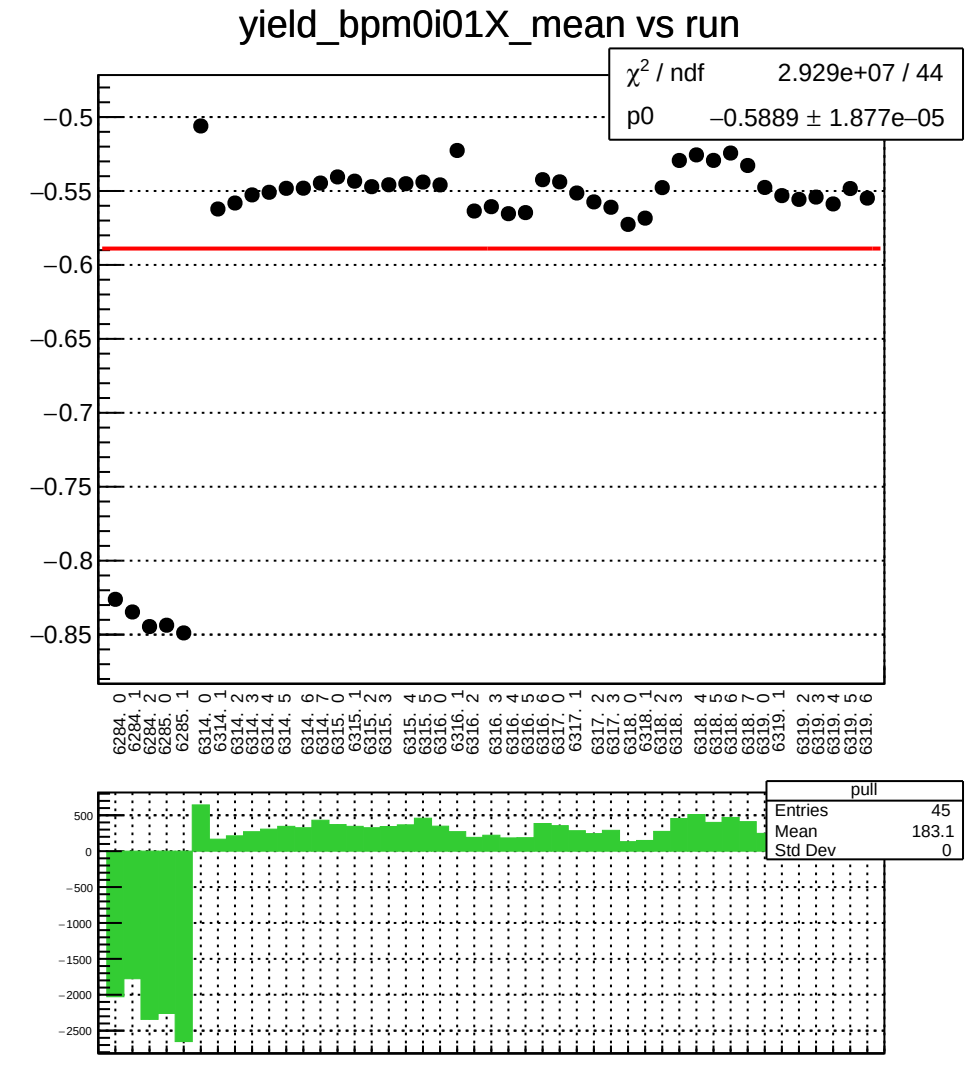

yield_bpm2i02X_mean vs run
χ² / ndf 2.452e+08 / 44
p0 0.6985 ± 9.791e−06
1
0.9
0.8
0.7
0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 109.4
Std Dev 0
8000
6000
4000
2000
0
−2000

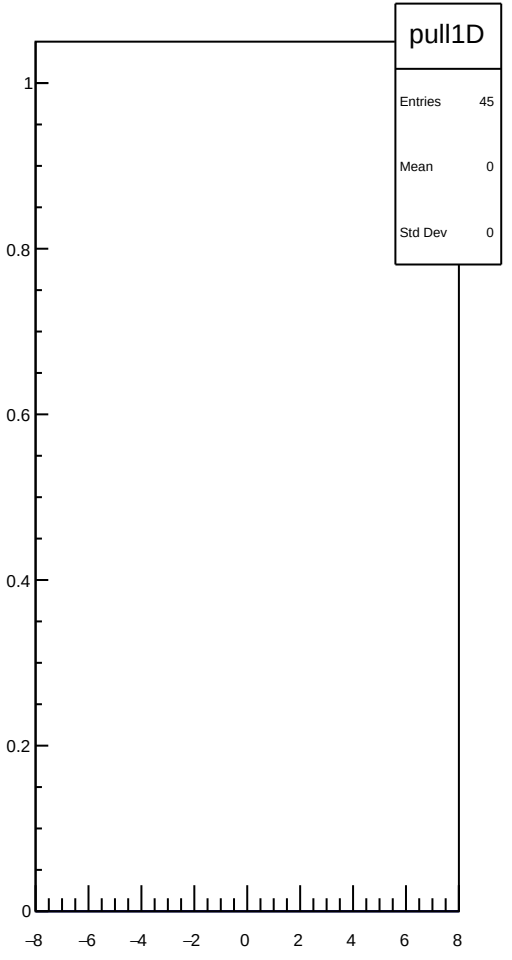

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

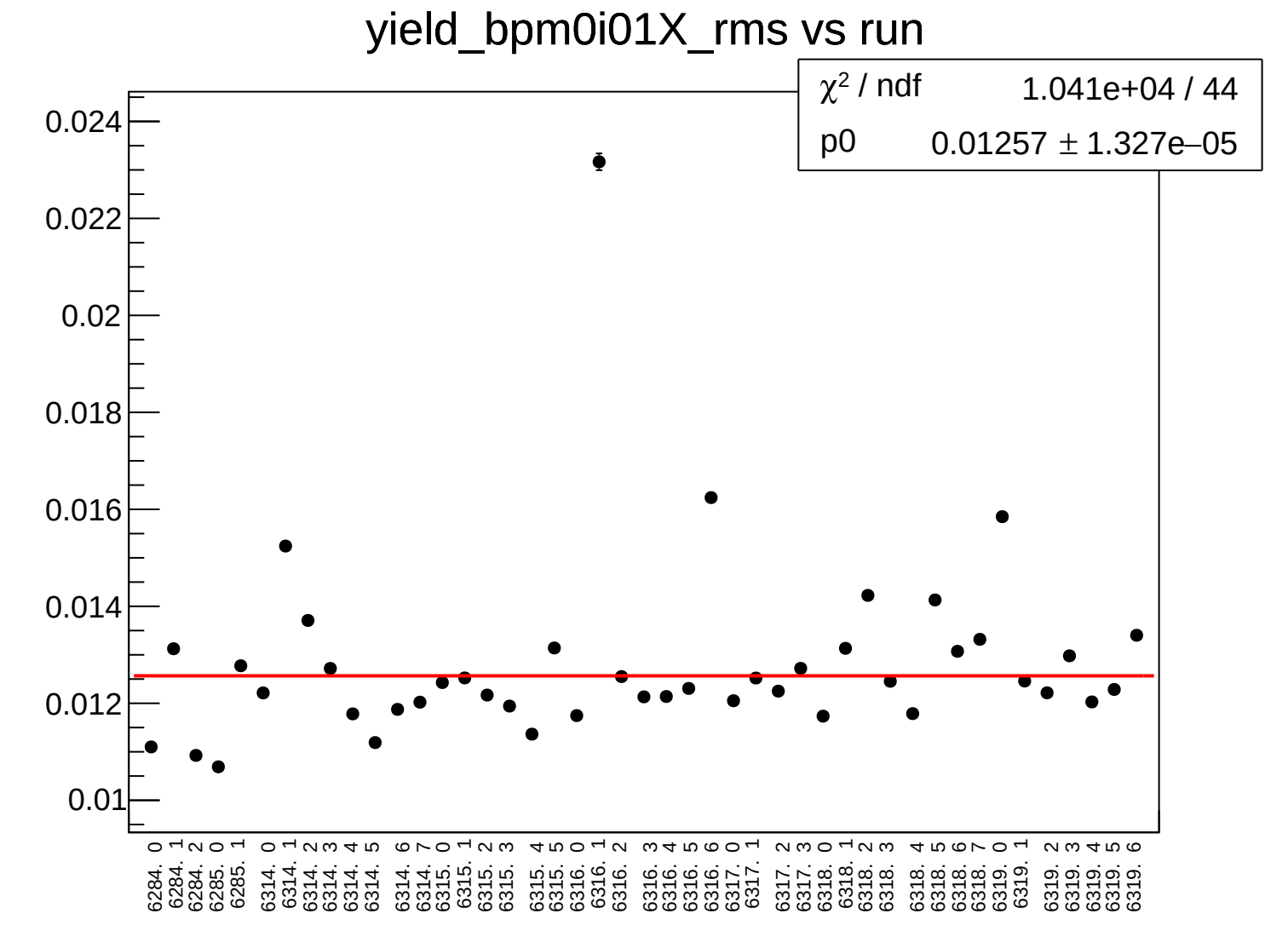

yield_bpm2i02X_rms vs run
χ² / ndf 7442 / 44
p0 0.006567 ± 6.924e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

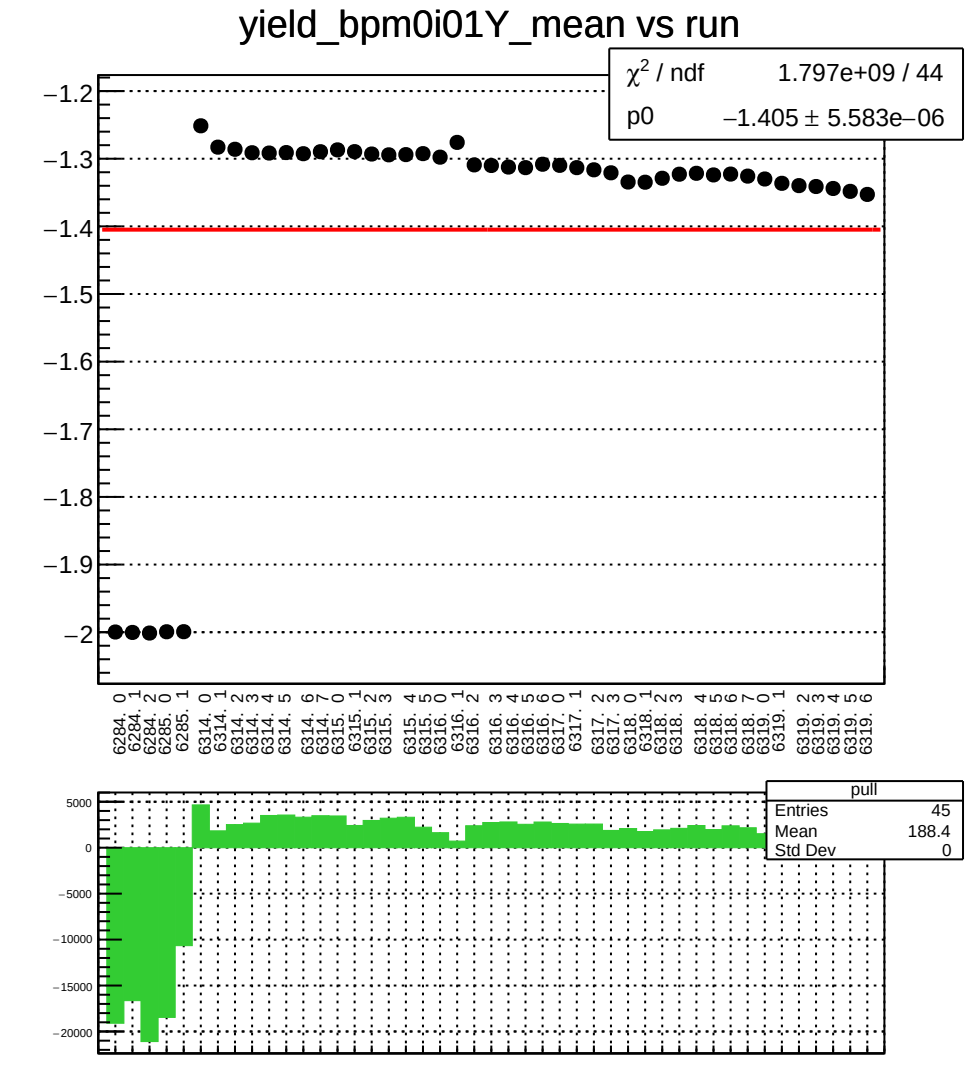

yield_bpm2i02Y_mean vs run
χ² / ndf 5.408e+08 / 44
p0 −1.908 ± 9.477e−06
−1.7
−1.8
−1.9
−2
−2.1
−2.2
−2.3
−2.4
−2.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 45
Mean 364.7
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

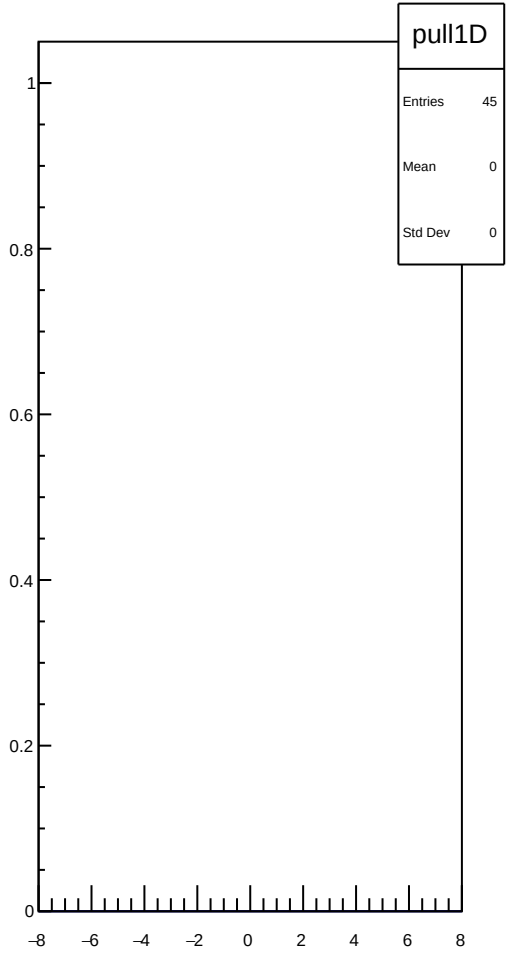

yield_bpm2i02Y_rms vs run
χ² / ndf 1.097e+04 / 44
p0 0.006344 ± 6.701e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

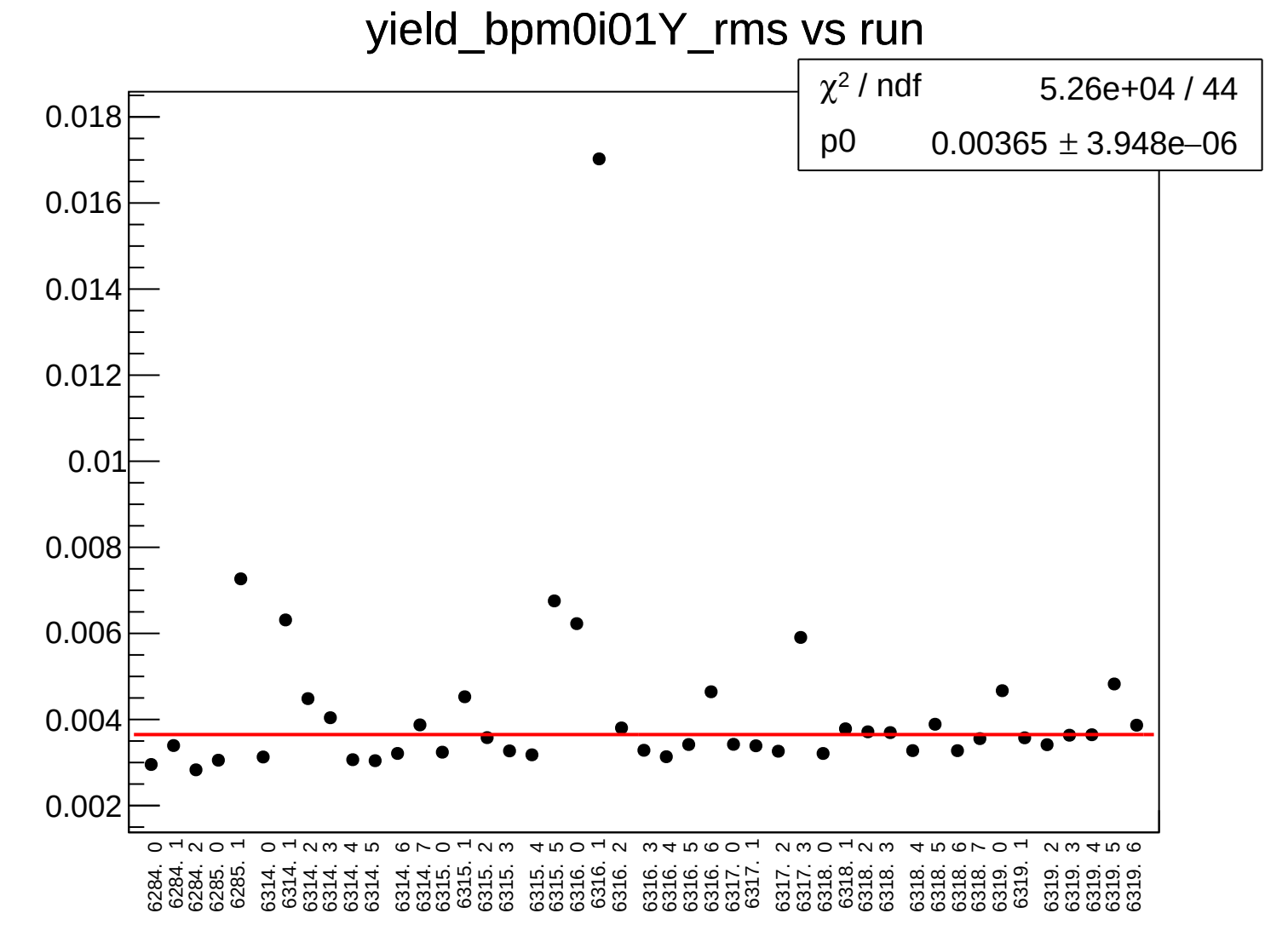

yield_bpm0i01X_mean vs run
χ² / ndf 2.929e+07 / 44
p0 −0.5889 ± 1.877e−05
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 183.1
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

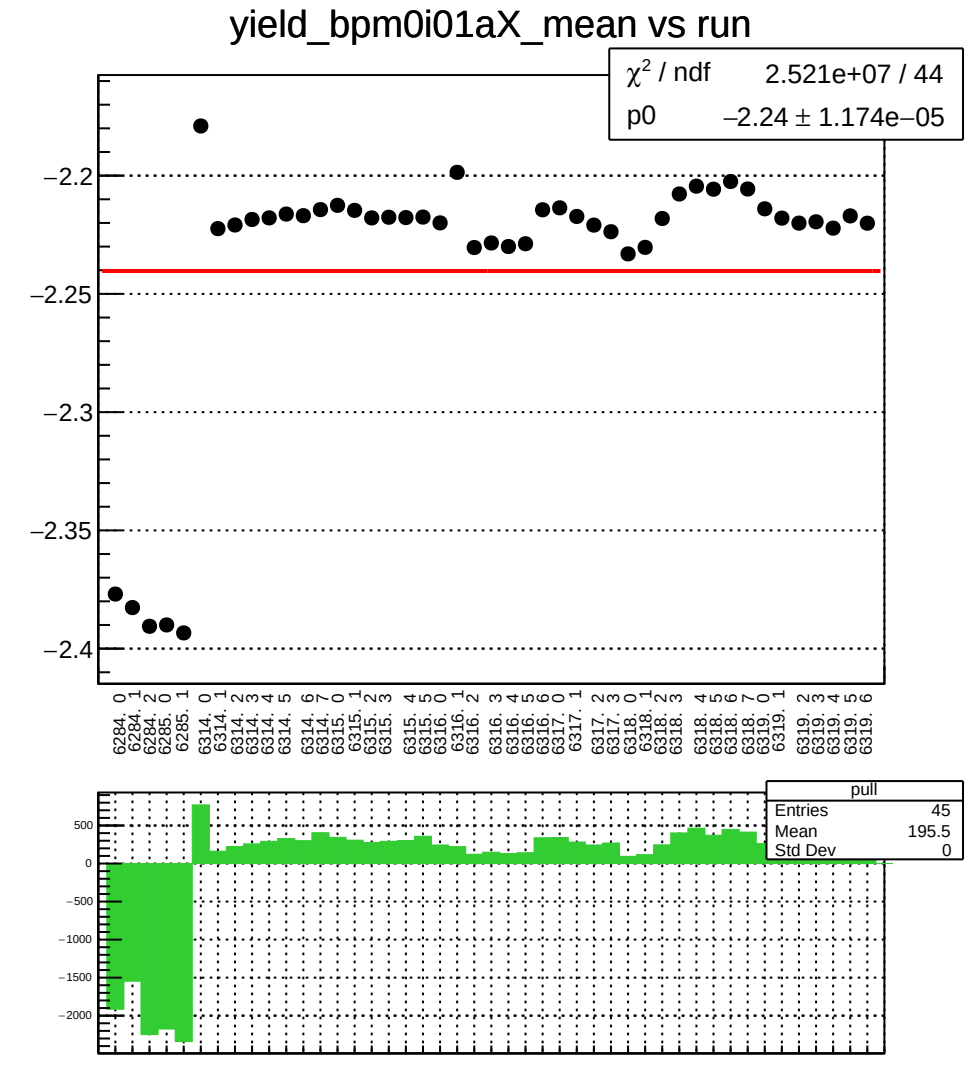

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

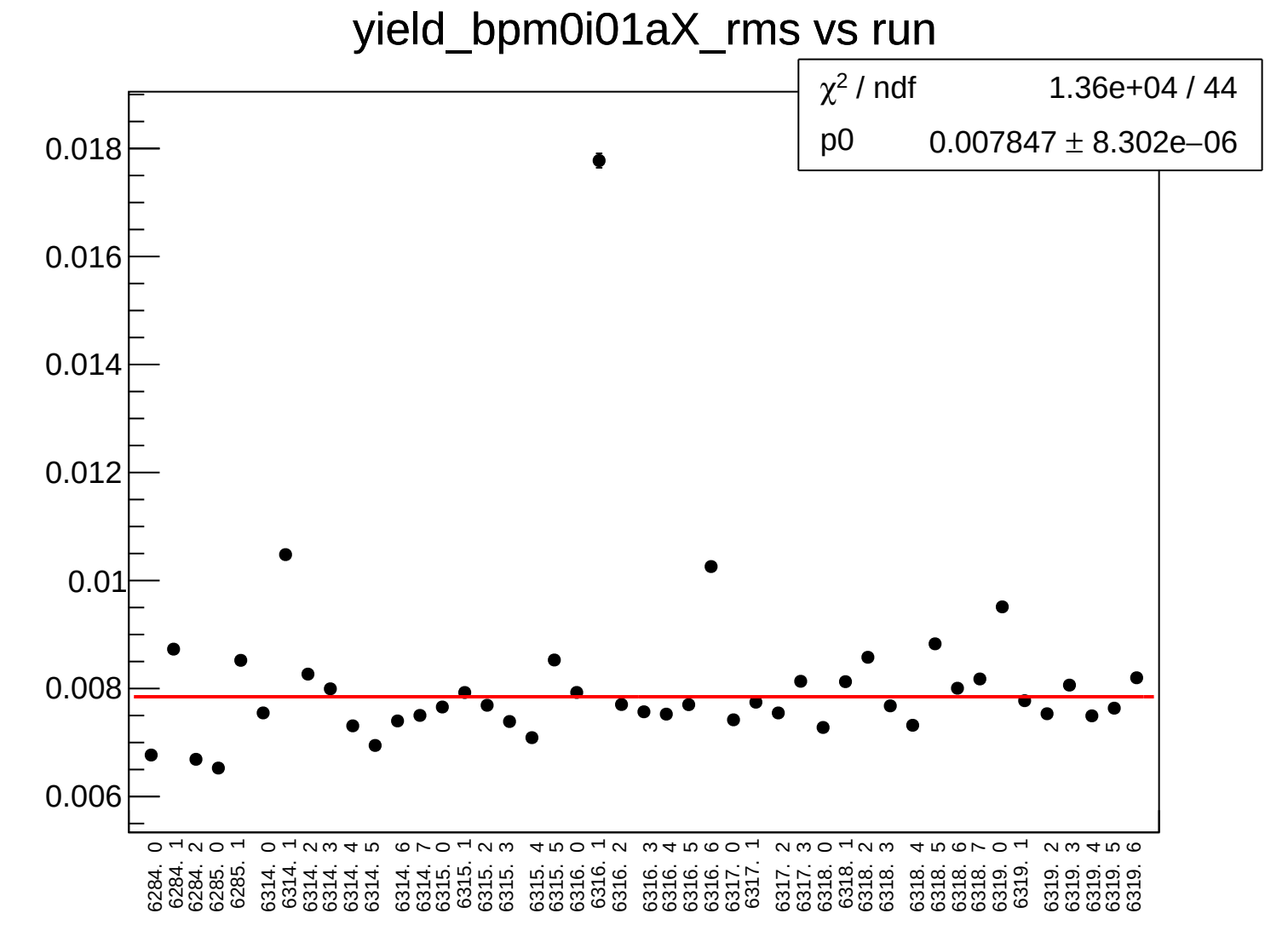

yield_bpm0i01X_rms vs run
χ² / ndf 1.041e+04 / 44
p0 0.01257 ± 1.327e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

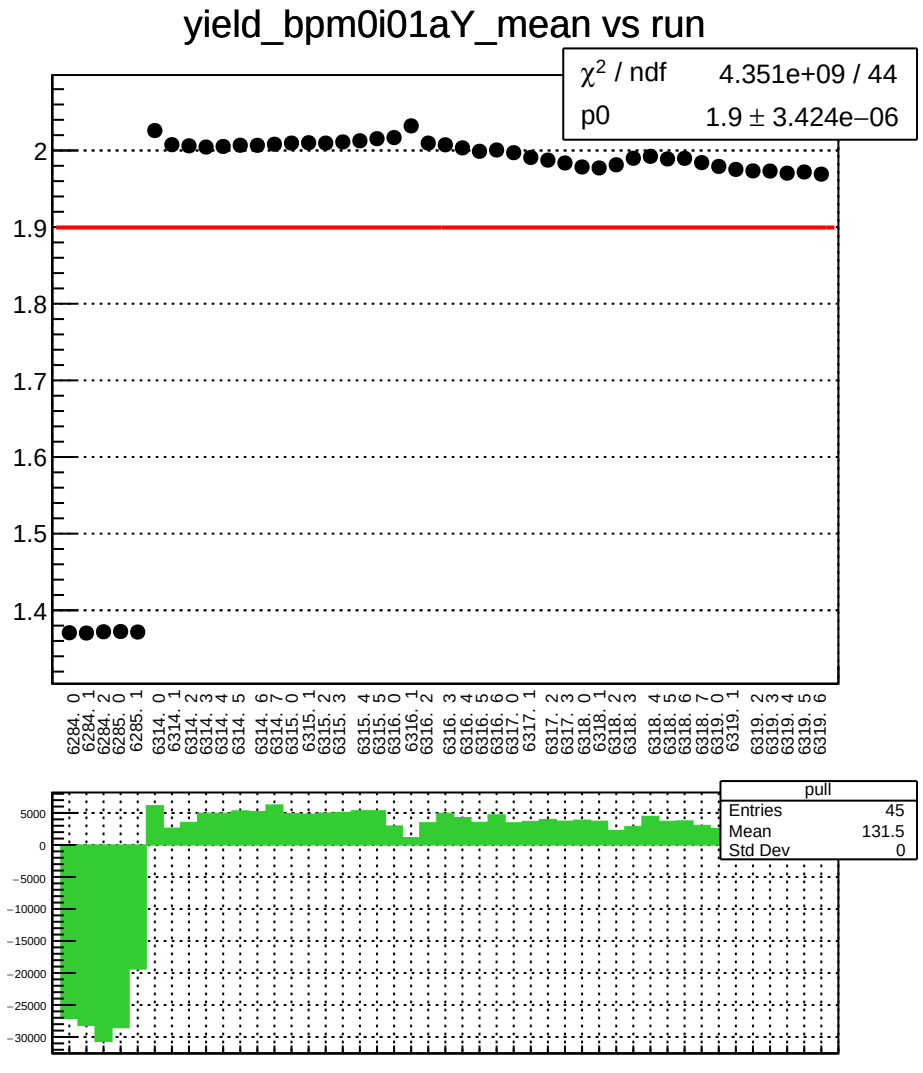

yield_bpm0i01Y_mean vs run
χ² / ndf 1.797e+09 / 44
p0 −1.405 ± 5.583e−06
pull
Entries 45
Mean 188.4
Std Dev 0

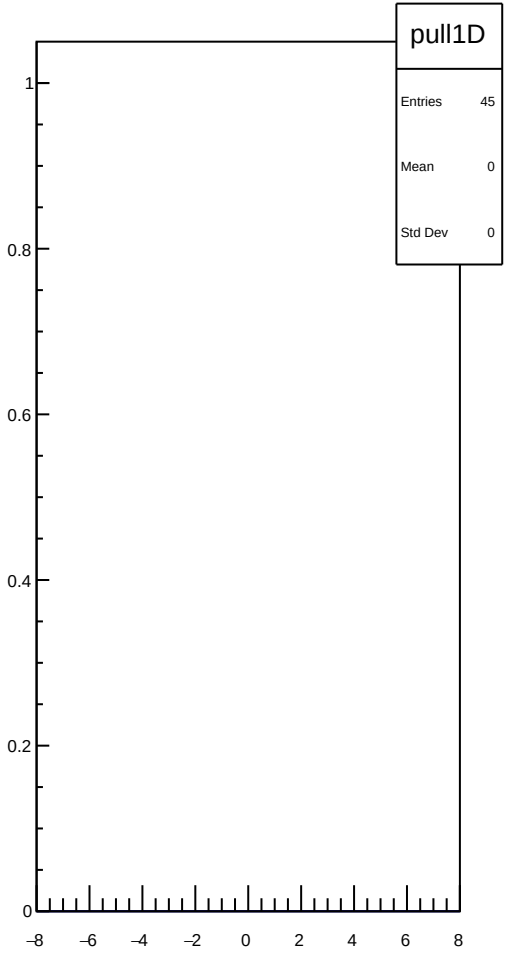

pull1D
Entries 45
Mean 0
Std Dev 0

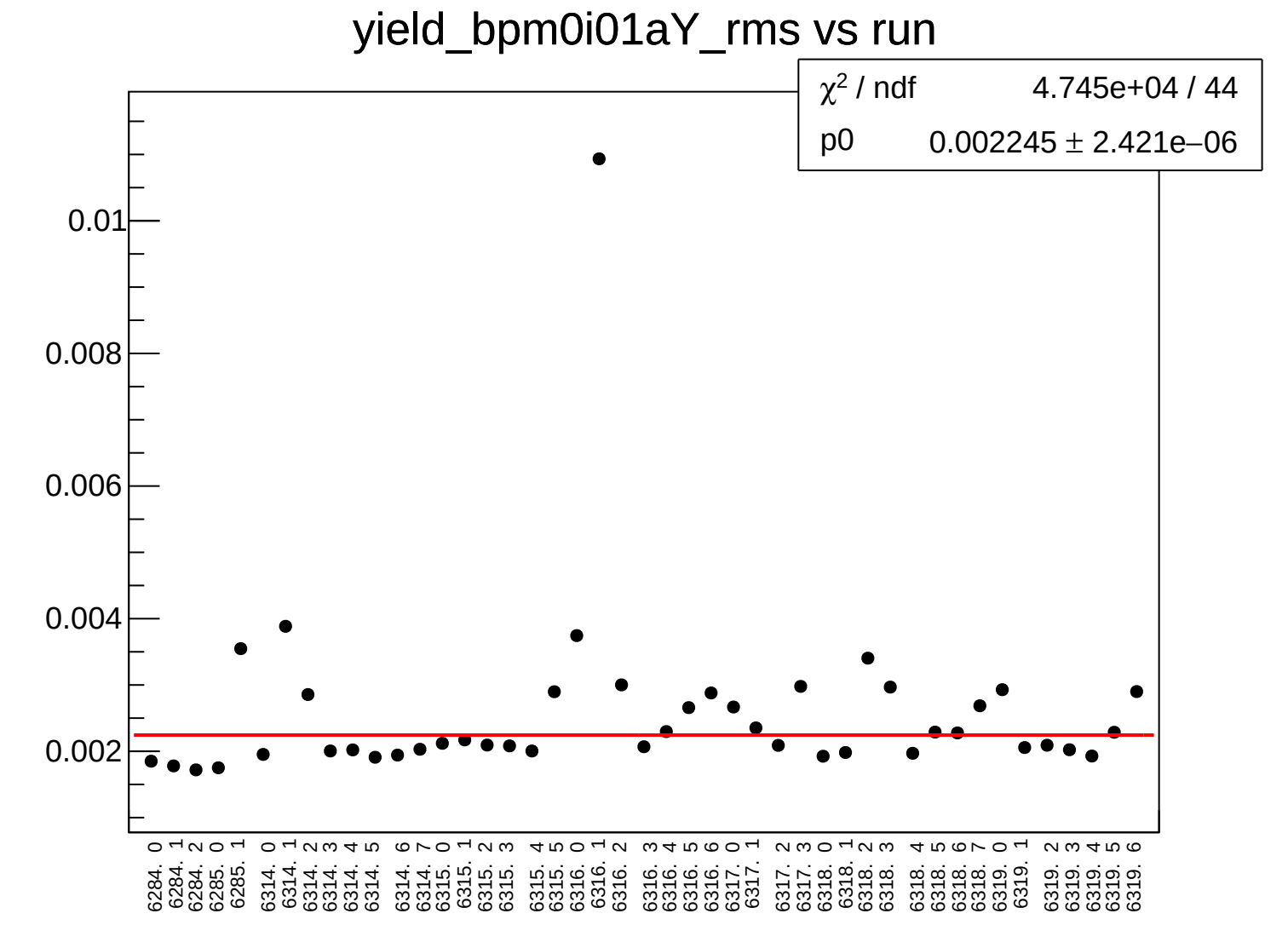

yield_bpm0i01Y_rms vs run
χ² / ndf 5.26e+04 / 44
p0 0.00365 ± 3.948e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

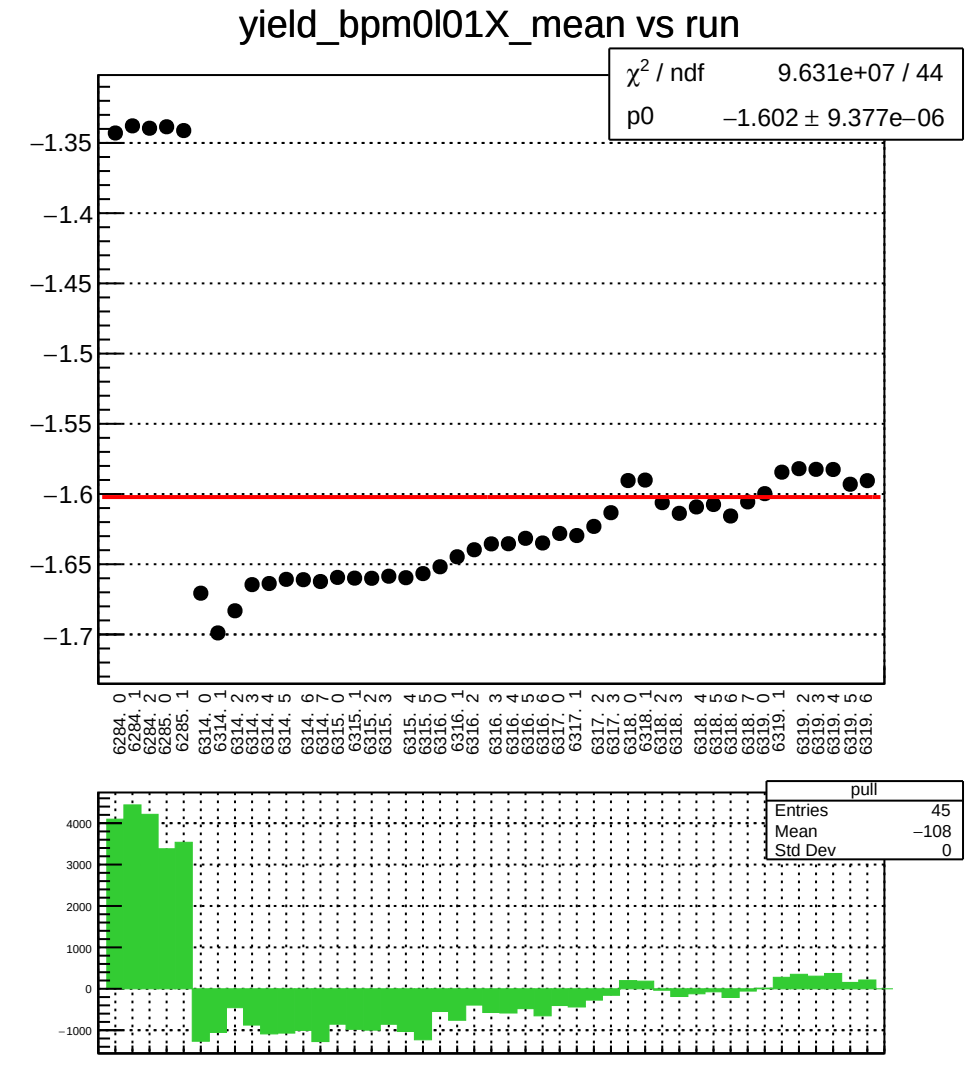

yield_bpm0i01aX_mean vs run
χ² / ndf 2.521e+07 / 44
p0 −2.24 ± 1.174e−05
−2.2
−2.25
−2.3
−2.35
−2.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 195.5
Std Dev 0
500
0
−500
−1000
−1500
−2000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

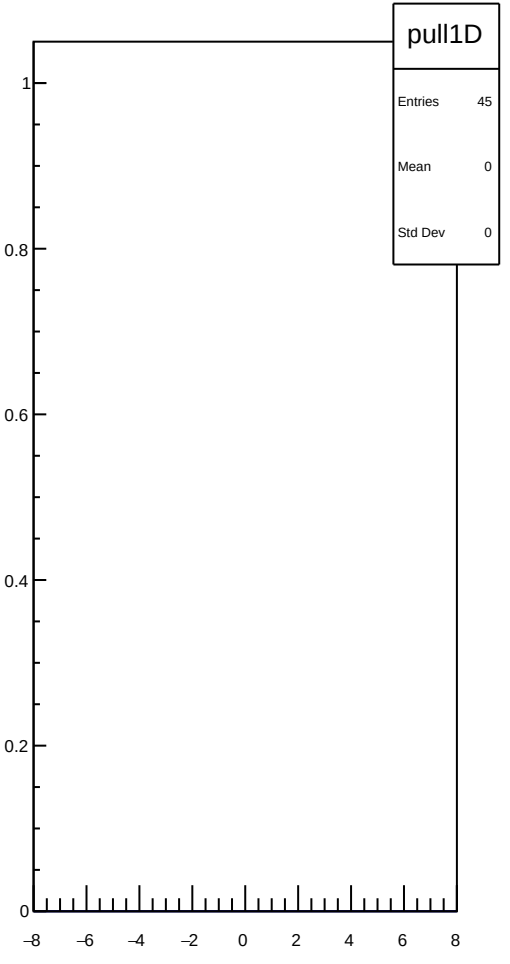

yield_bpm0i01aX_rms vs run
χ² / ndf 1.36e+04 / 44
p0 0.007847 ± 8.302e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

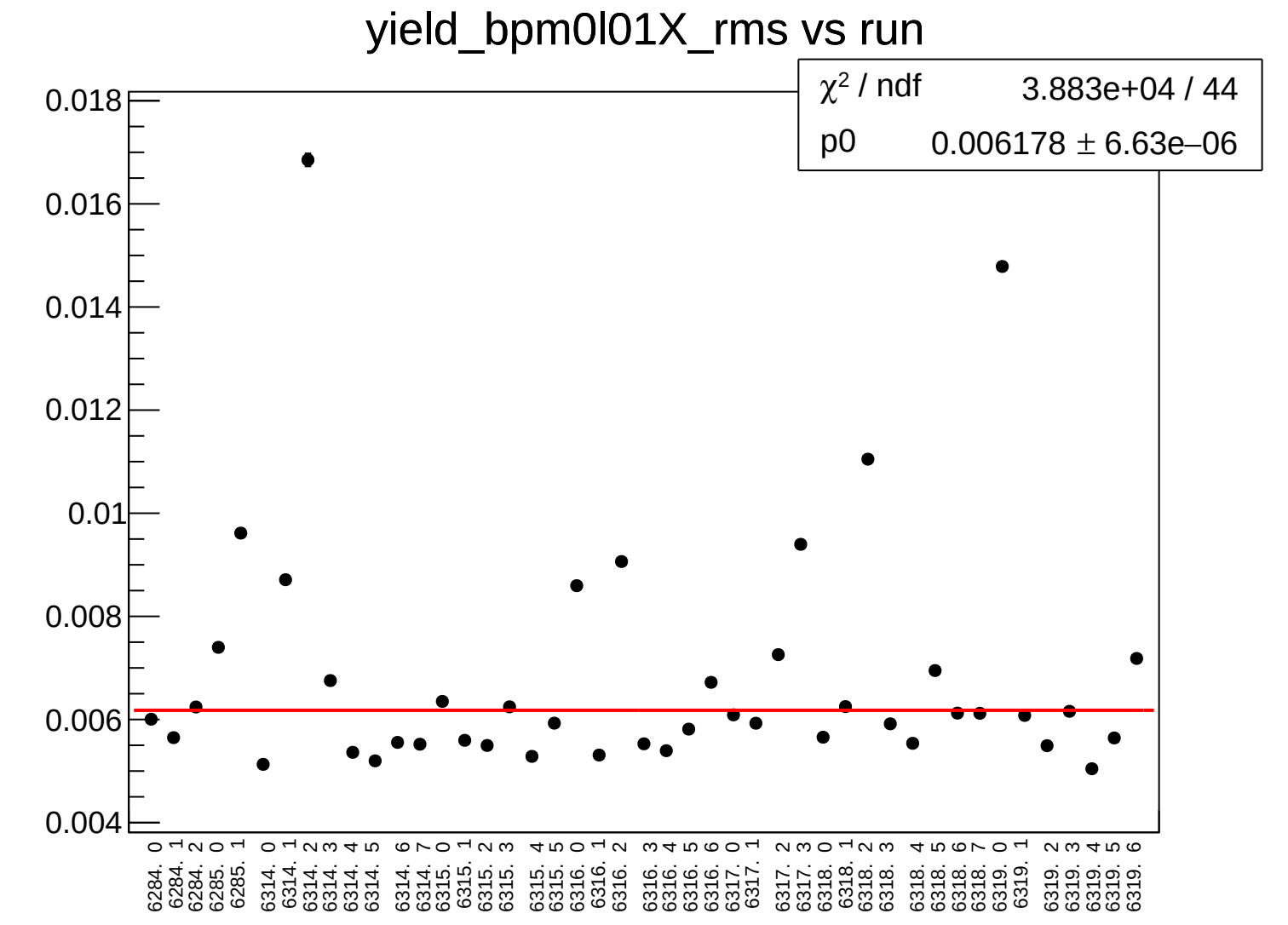

yield_bpm0i01aY_mean vs run
χ² / ndf 4.351e+09 / 44
p0 1.9 ± 3.424e−06
pull
Entries 45
Mean 131.5
Std Dev 0


pull1D
Entries 45
Mean 0
Std Dev 0


yield_bpm0i01aY_rms vs run
χ² / ndf 4.745e+04 / 44
p0 0.002245 ± 2.421e−06
0.01
0.008
0.006
0.004
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l01X_mean vs run
χ² / ndf 9.631e+07 / 44
p0 −1.602 ± 9.377e−06
−1.35
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
−1.7
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −108
Std Dev 0
4000
3000
2000
1000
0
−1000


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01X_rms vs run
χ² / ndf 3.883e+04 / 44
p0 0.006178 ± 6.63e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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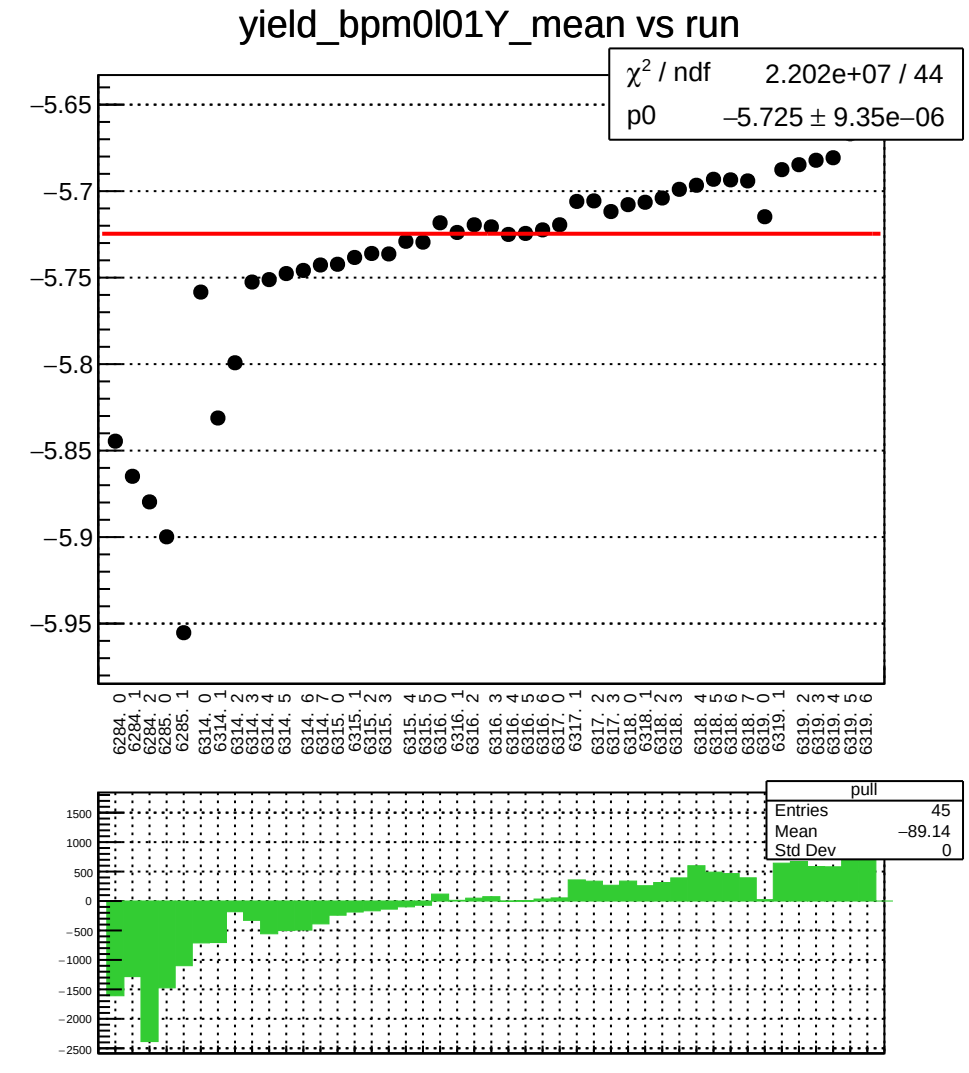
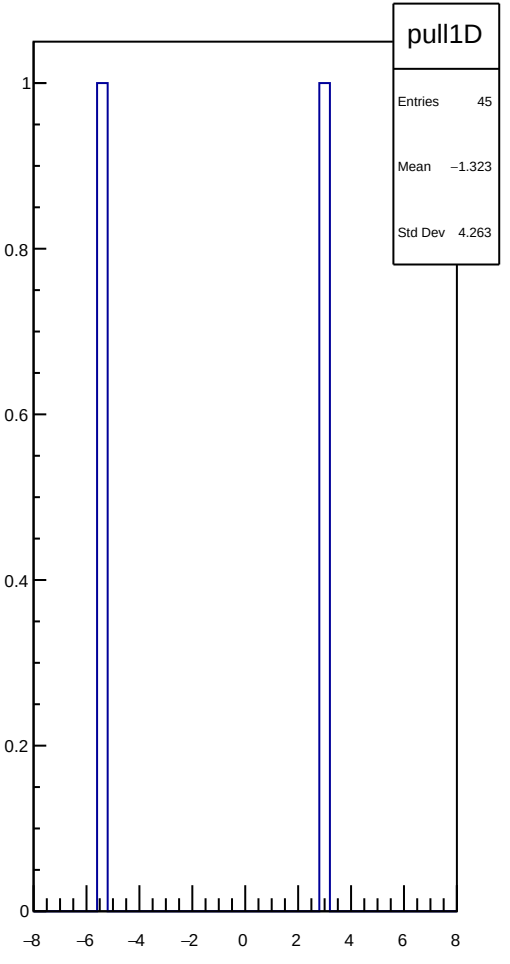
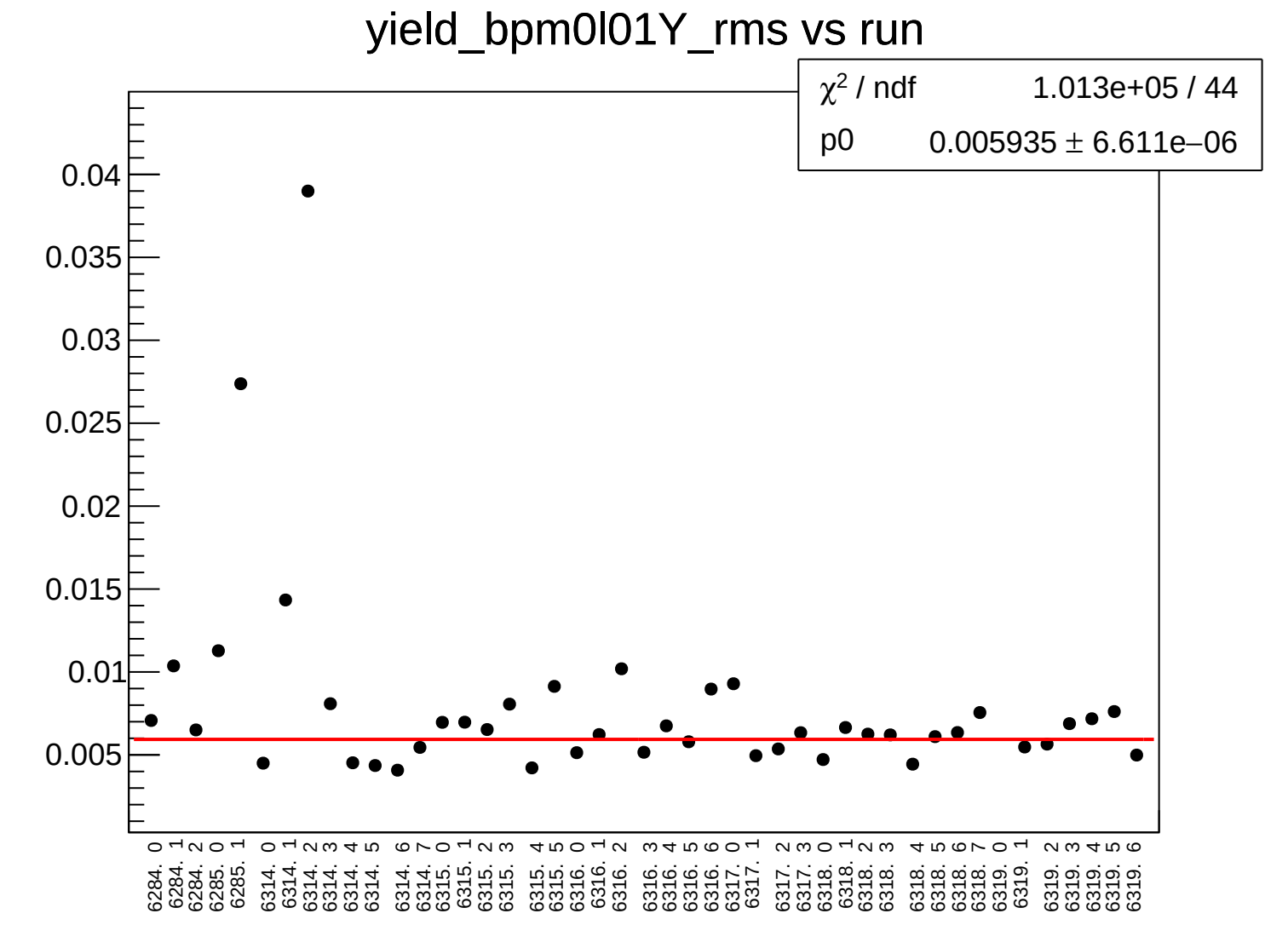
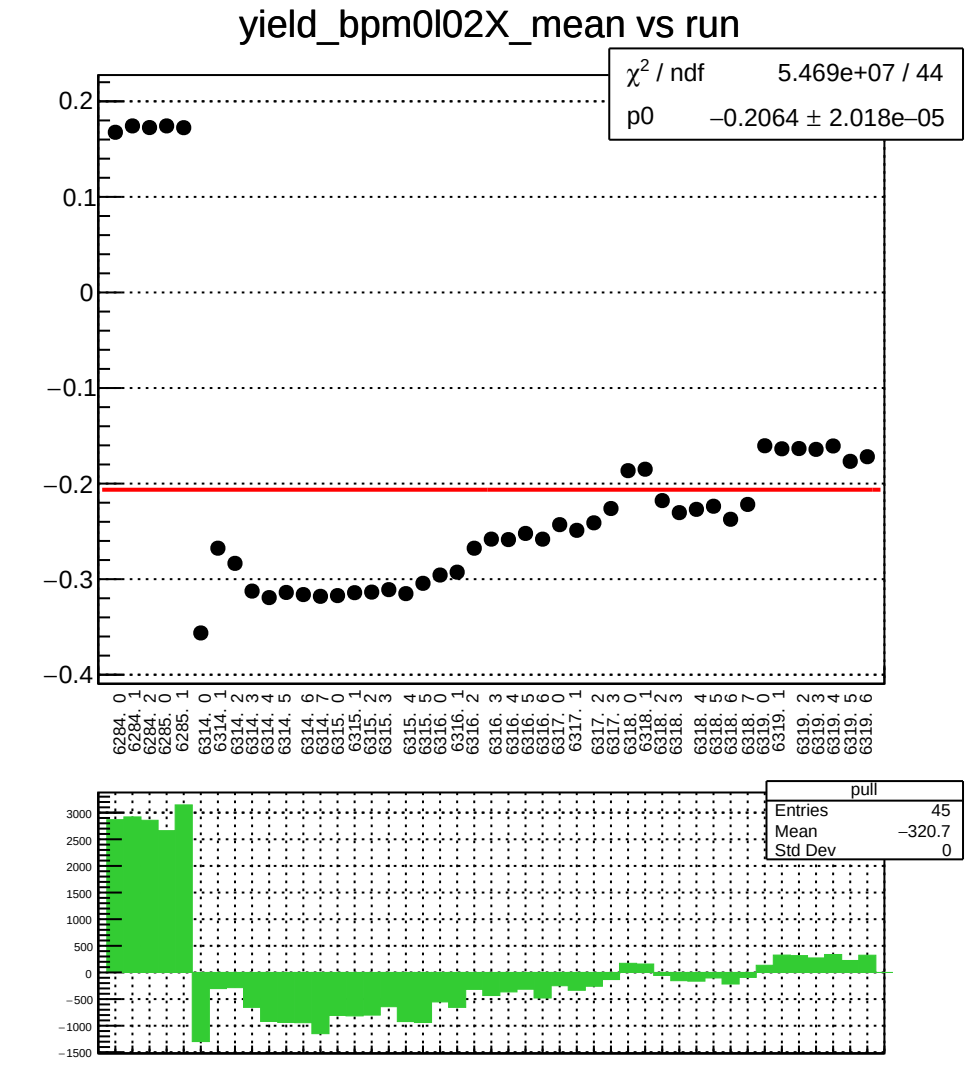
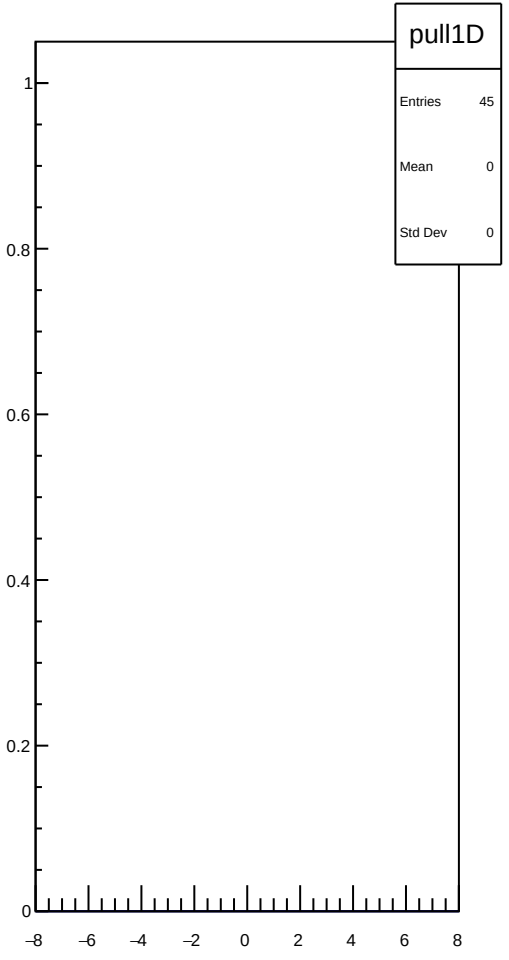
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

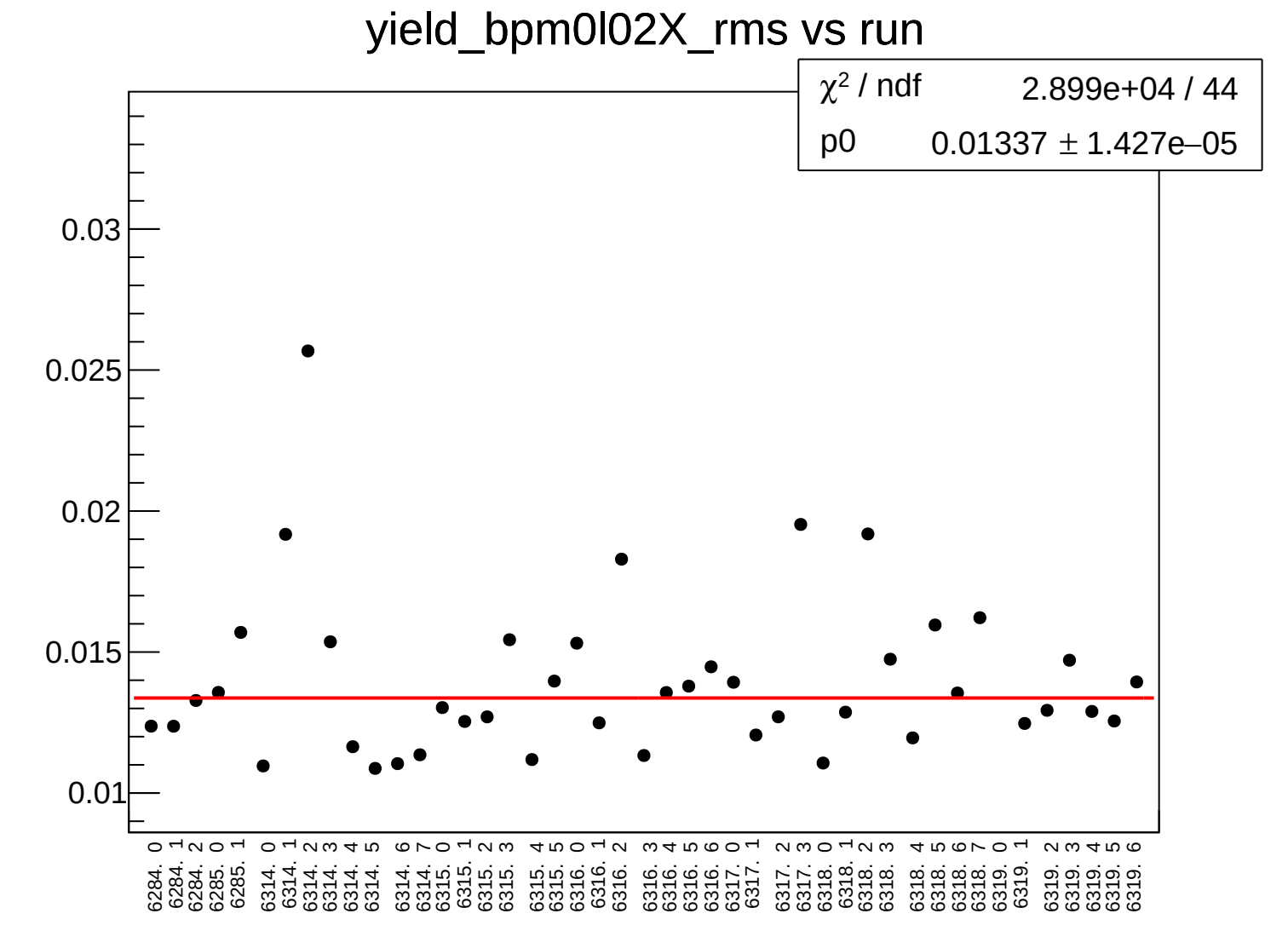

yield_bpm0l01Y_mean vs run
χ² / ndf 2.202e+07 / 44
p0 −5.725 ± 9.35e−06
−5.65
−5.7
−5.75
−5.8
−5.85
−5.9
−5.95
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −89.14
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

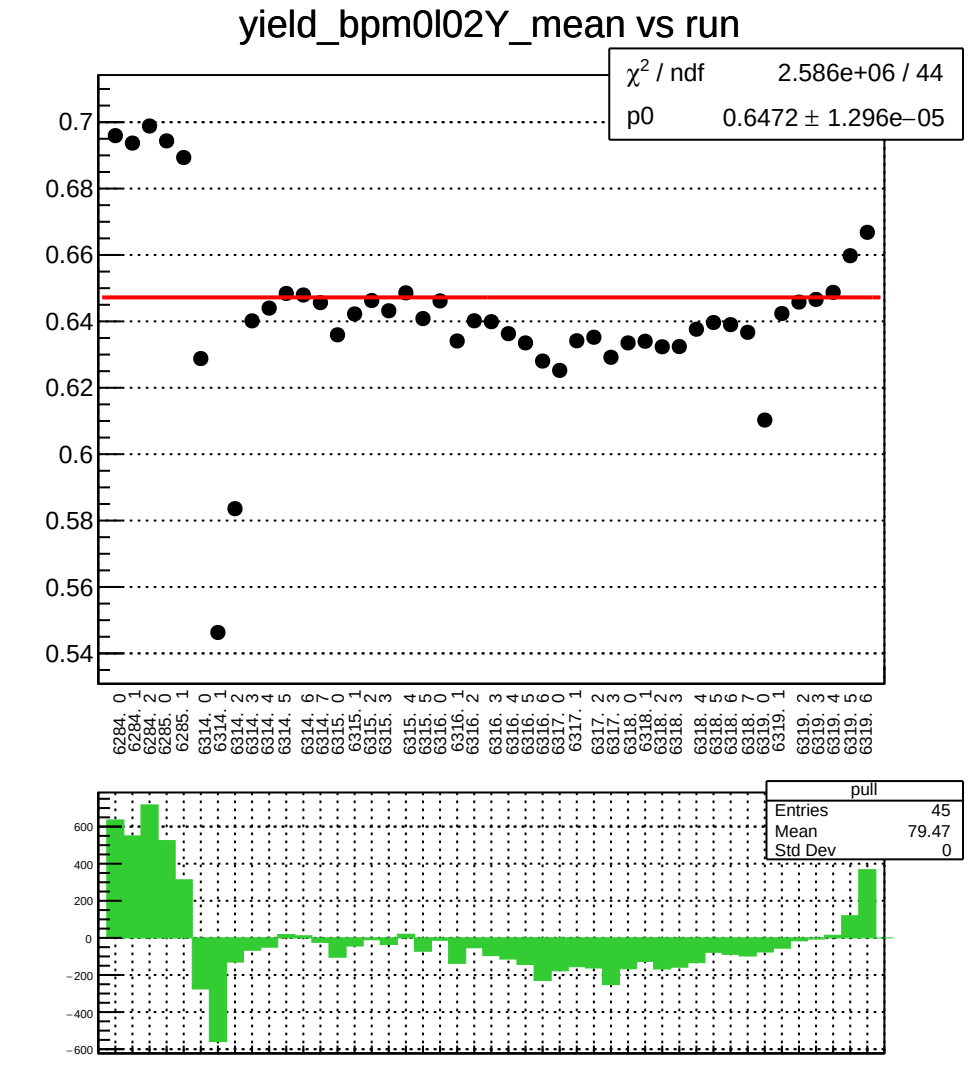

pull1D
Entries 45
Mean −1.323
Std Dev 4.263
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

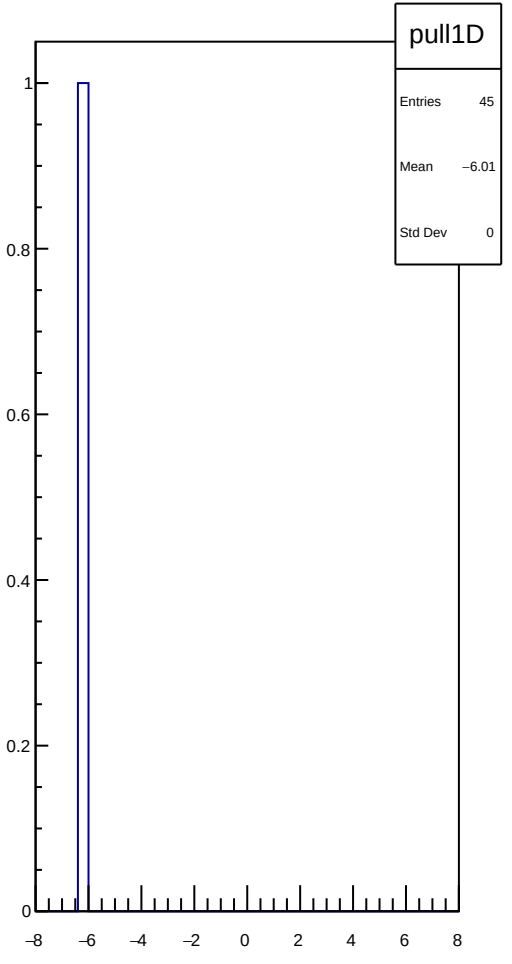

yield_bpm0l01Y_rms vs run
χ² / ndf 1.013e+05 / 44
p0 0.005935 ± 6.611e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

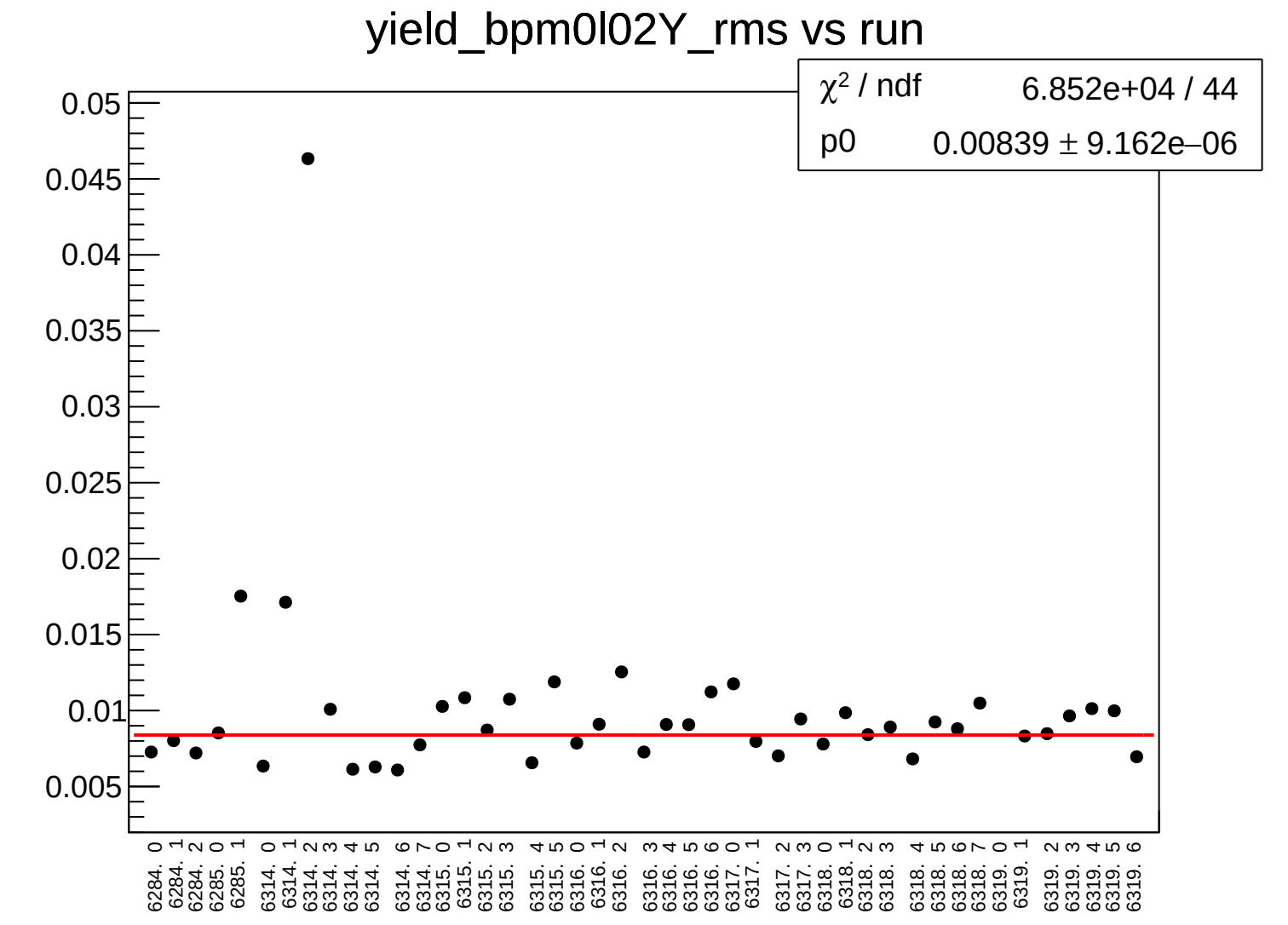

yield_bpm0l02X_mean vs run
χ² / ndf 5.469e+07 / 44
p0 −0.2064 ± 2.018e−05
pull
Entries 45
Mean −320.7
Std Dev 0

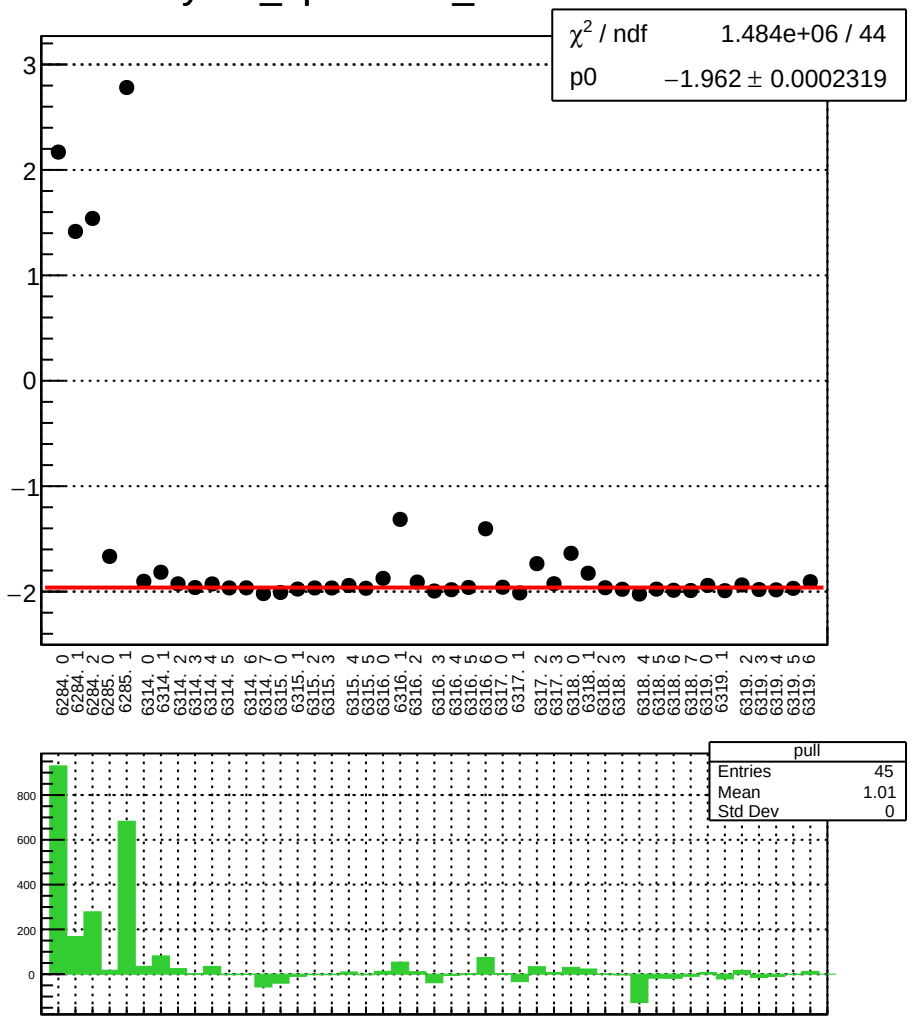

pull1D
Entries 45
Mean 0
Std Dev 0

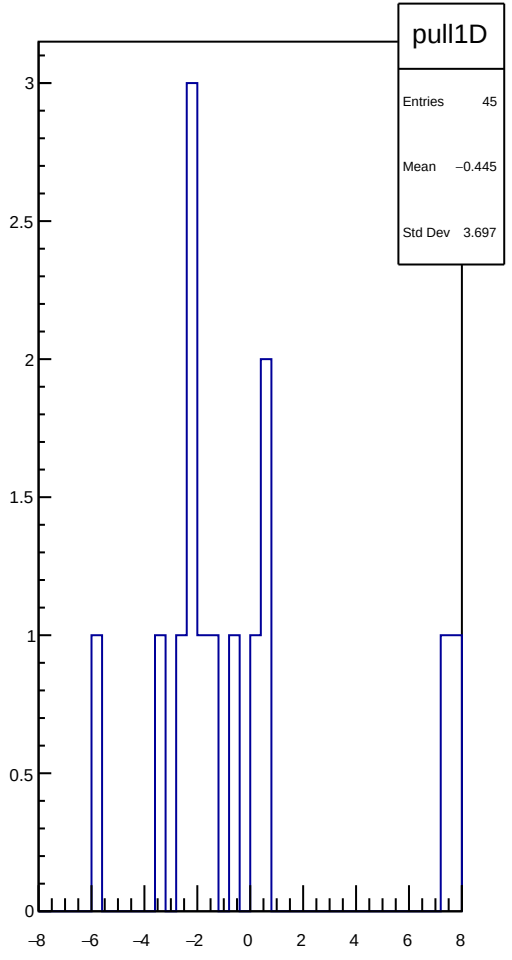

yield_bpm0l02X_rms vs run
χ² / ndf 2.899e+04 / 44
p0 0.01337 ± 1.427e–05
0.03
0.025
0.02
0.015
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

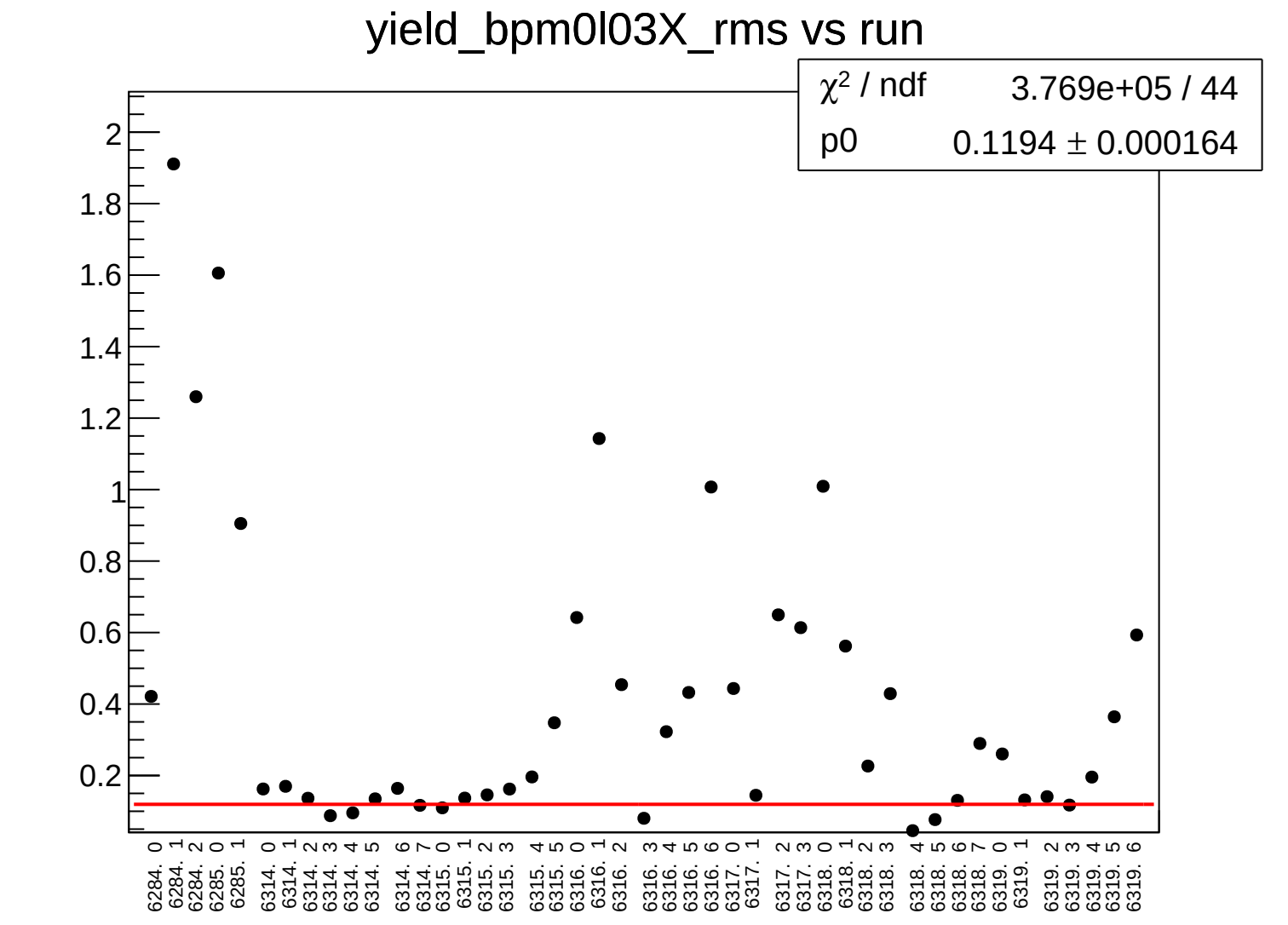

yield_bpm0l02Y_mean vs run
χ² / ndf 2.586e+06 / 44
p0 0.6472 ± 1.296e−05
pull
Entries 45
Mean 79.47
Std Dev 0

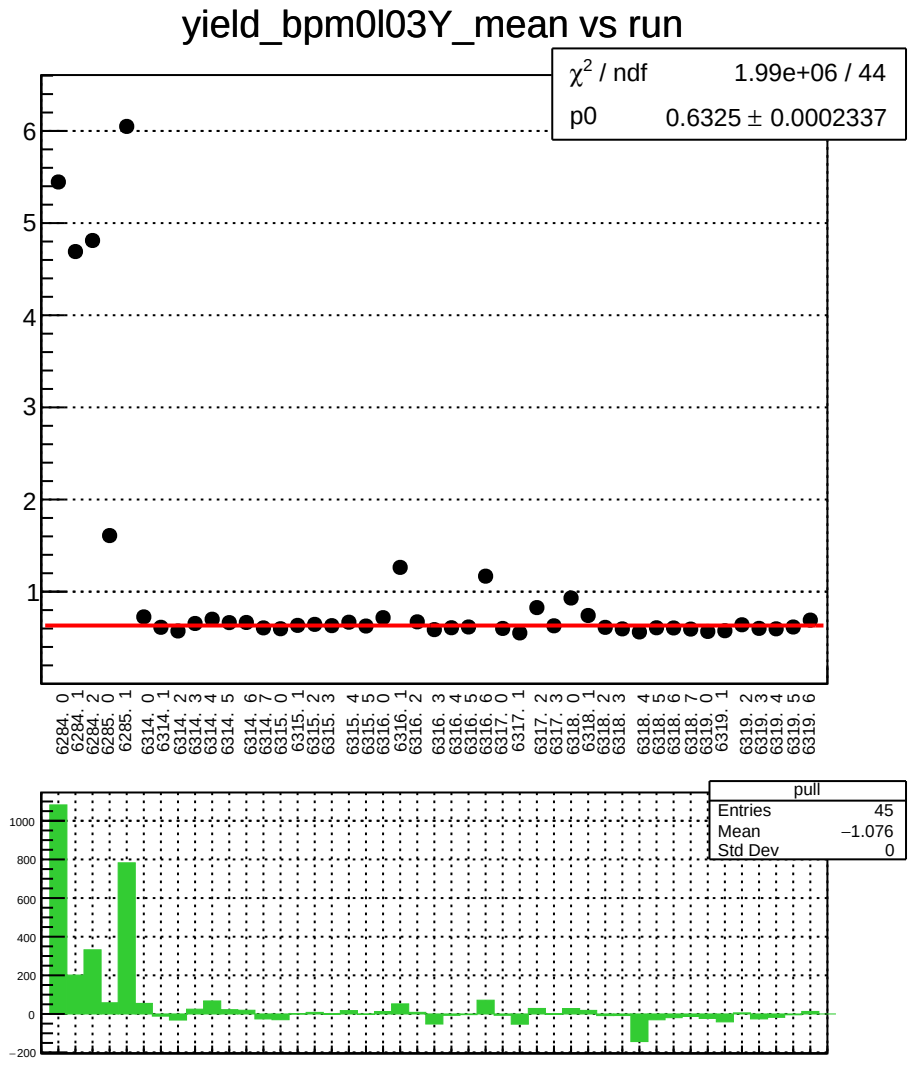

pull1D
Entries 45
Mean −6.01
Std Dev 0

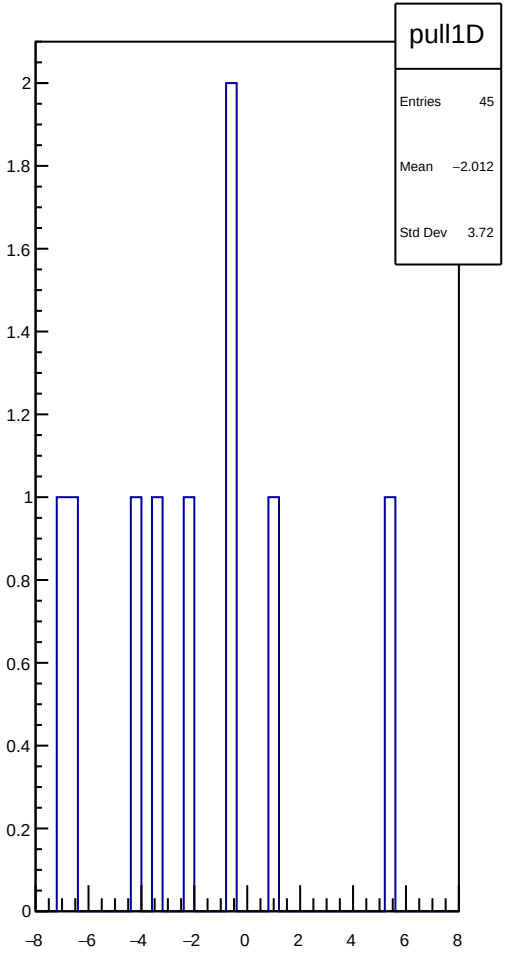

yield_bpm0l02Y_rms vs run
χ² / ndf 6.852e+04 / 44
p0 0.00839 ± 9.162e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

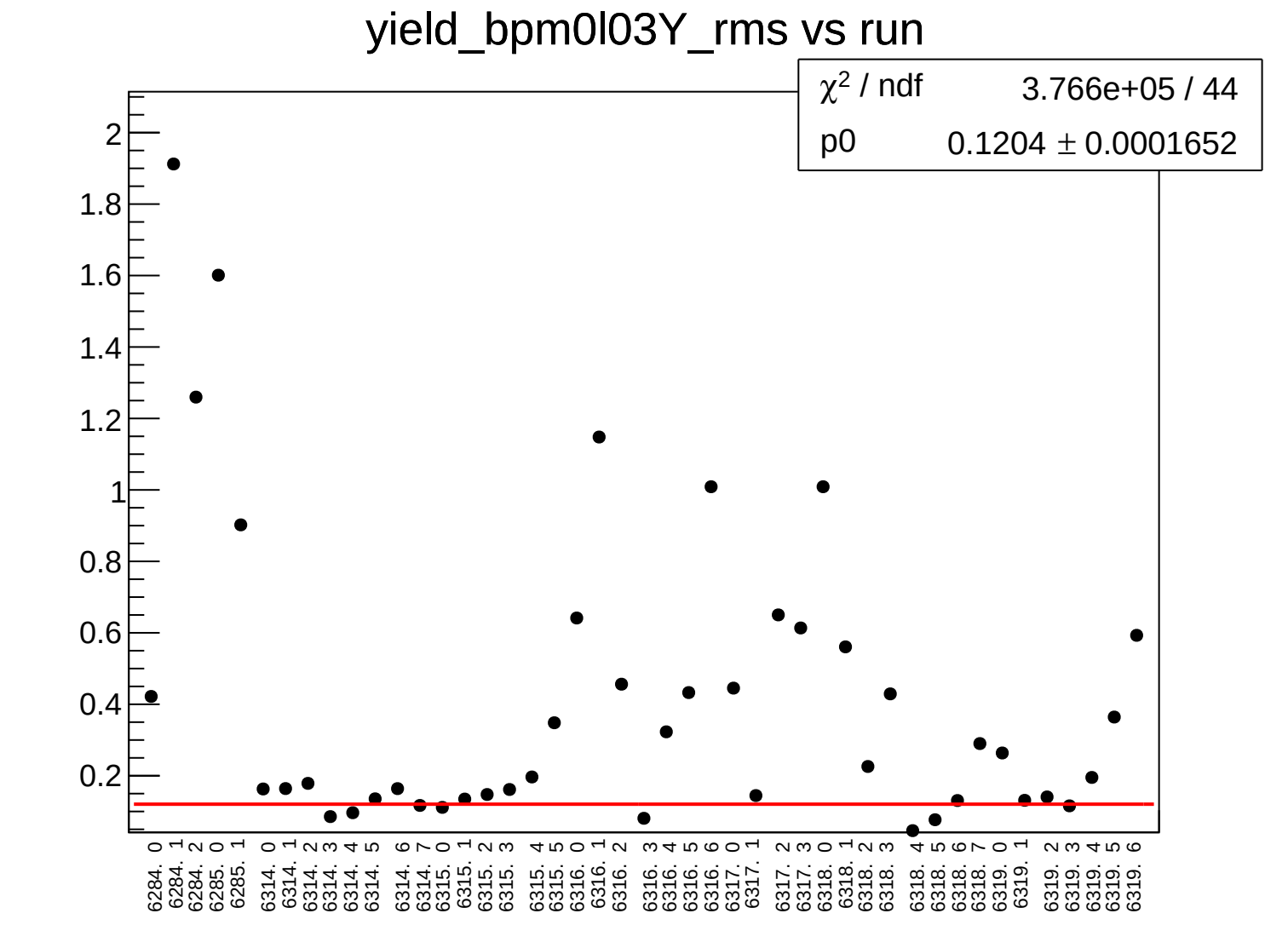

yield_bpm0l03X_mean vs run
χ² / ndf 1.484e+06 / 44
p0 −1.962 ± 0.0002319
pull
Entries 45
Mean 1.01
Std Dev 0


pull1D
Entries 45
Mean −0.445
Std Dev 3.697


yield_bpm0l03X_rms vs run
χ² / ndf 3.769e+05 / 44
p0 0.1194 ± 0.000164
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l03Y_mean vs run
χ² / ndf 1.99e+06 / 44
p0 0.6325 ± 0.0002337
pull
Entries 45
Mean −1.076
Std Dev 0


pull1D
Entries 45
Mean −2.012
Std Dev 3.72


yield_bpm0l03Y_rms vs run
χ² / ndf 3.766e+05 / 44
p0 0.1204 ± 0.0001652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
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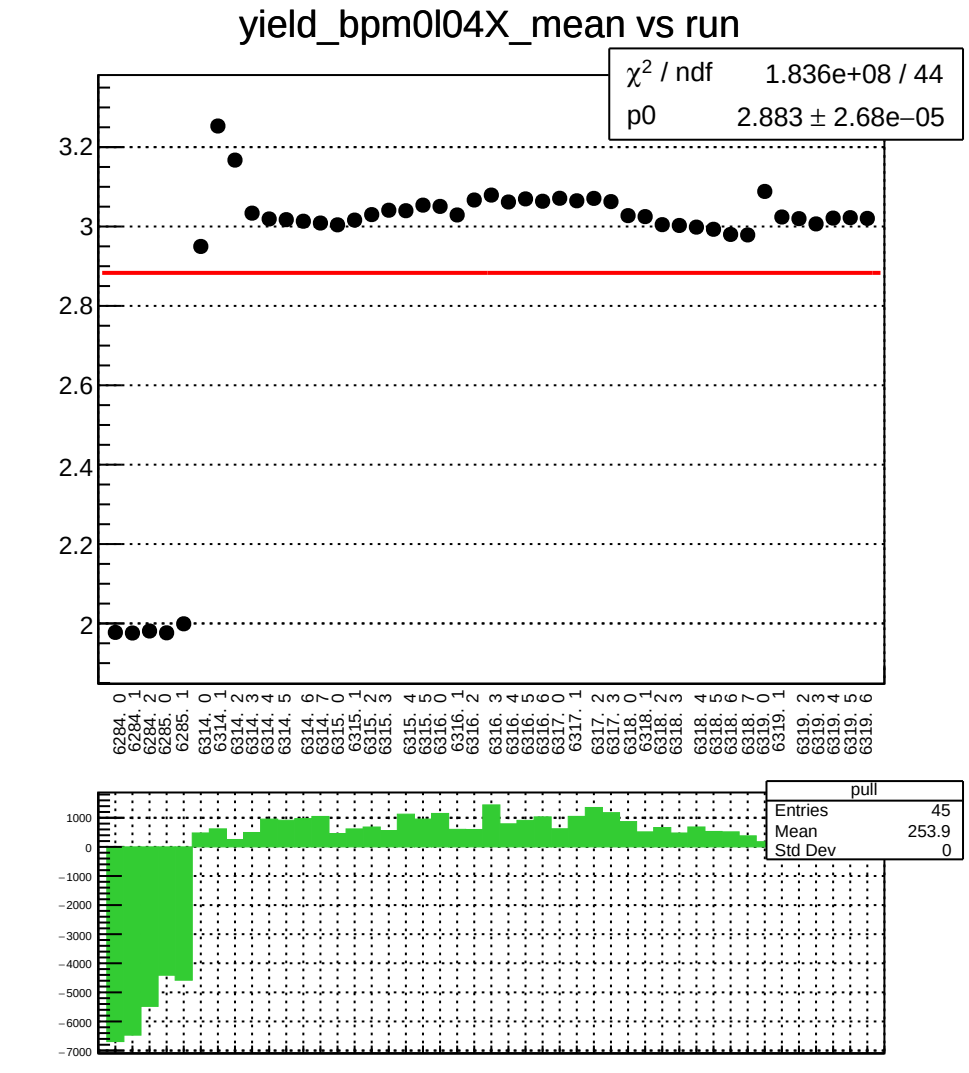
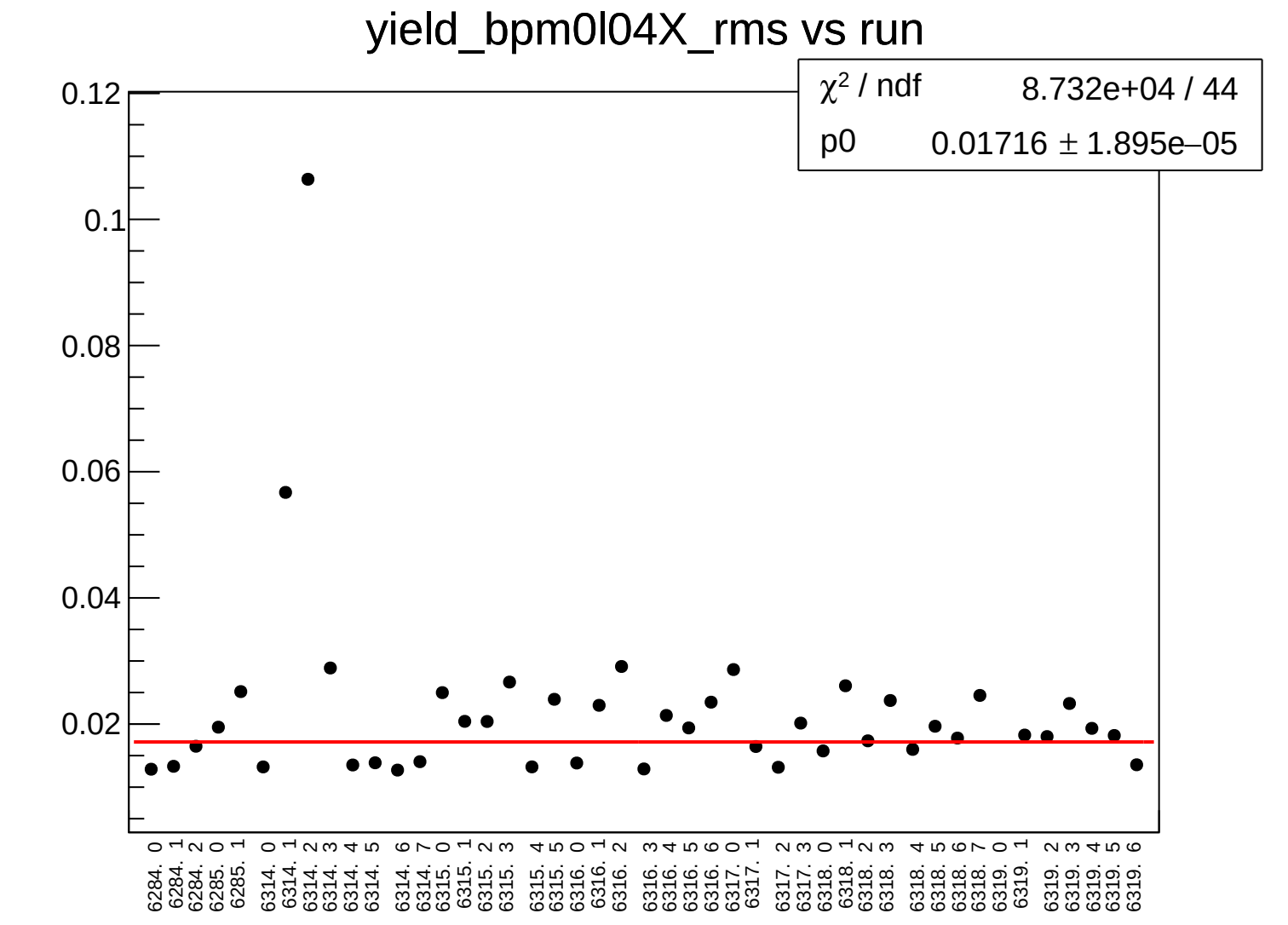
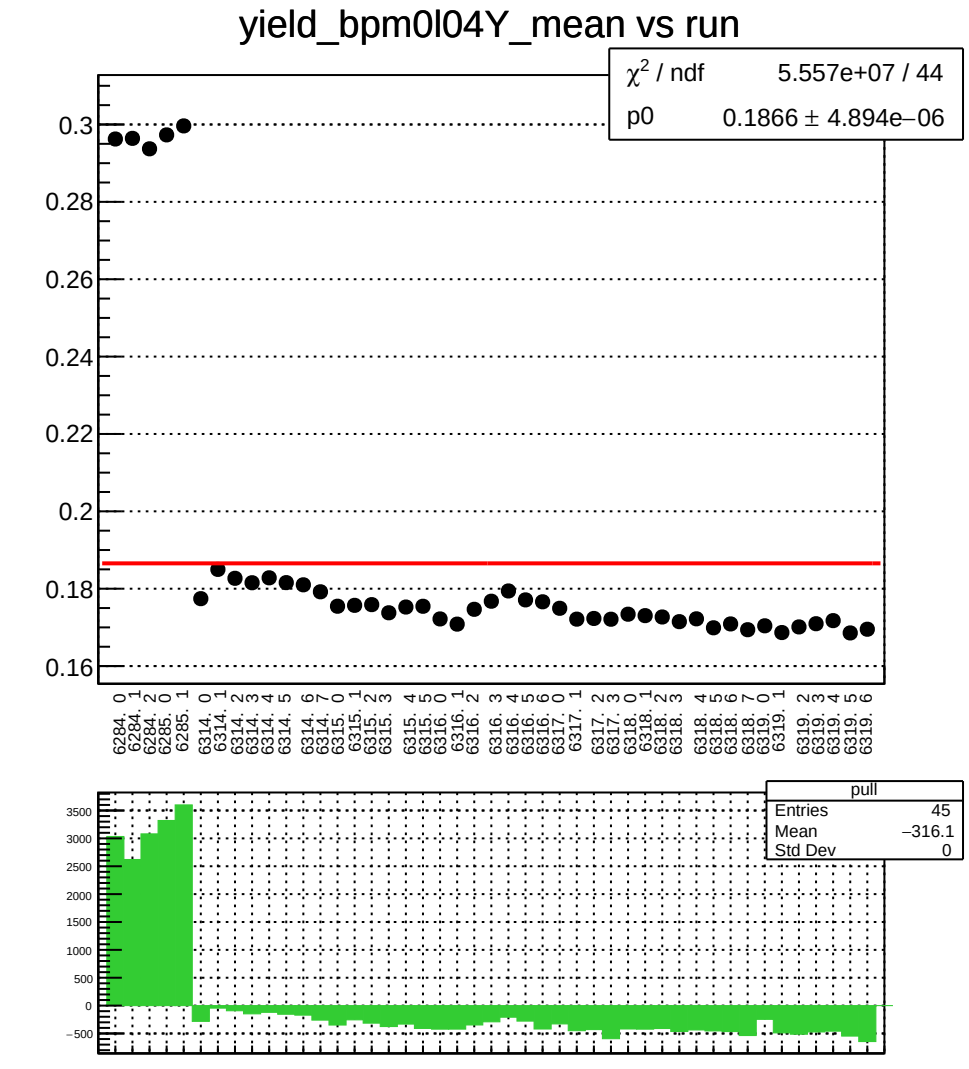
6319. 5
6319. 6


yield_bpm0l04X_mean vs run
χ² / ndf 1.836e+08 / 44
p0 2.883 ± 2.68e−05
3.2
3
2.8
2.6
2.4
2.2
2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 253.9
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04X_rms vs run
χ² / ndf 8.732e+04 / 44
p0 0.01716 ± 1.895e−05
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l04Y_mean vs run
χ² / ndf 5.557e+07 / 44
p0 0.1866 ± 4.894e−06
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 5
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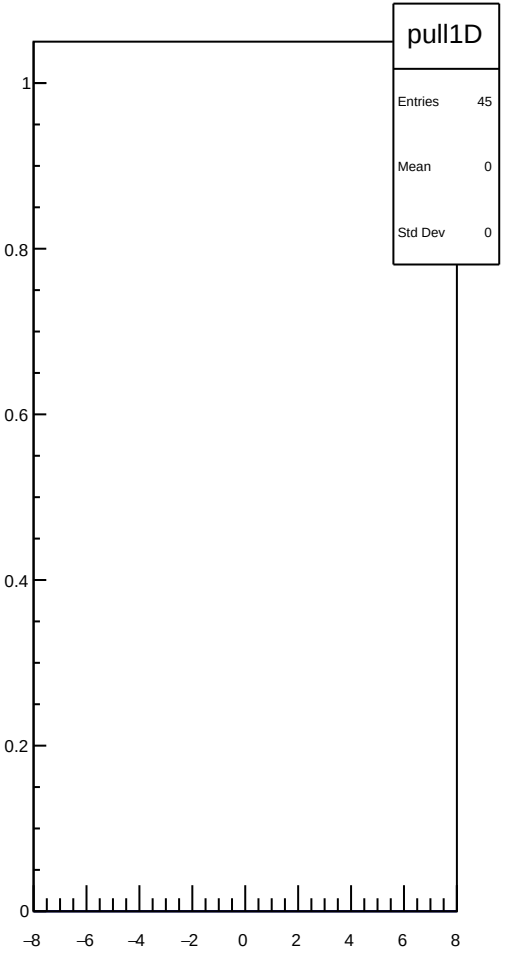
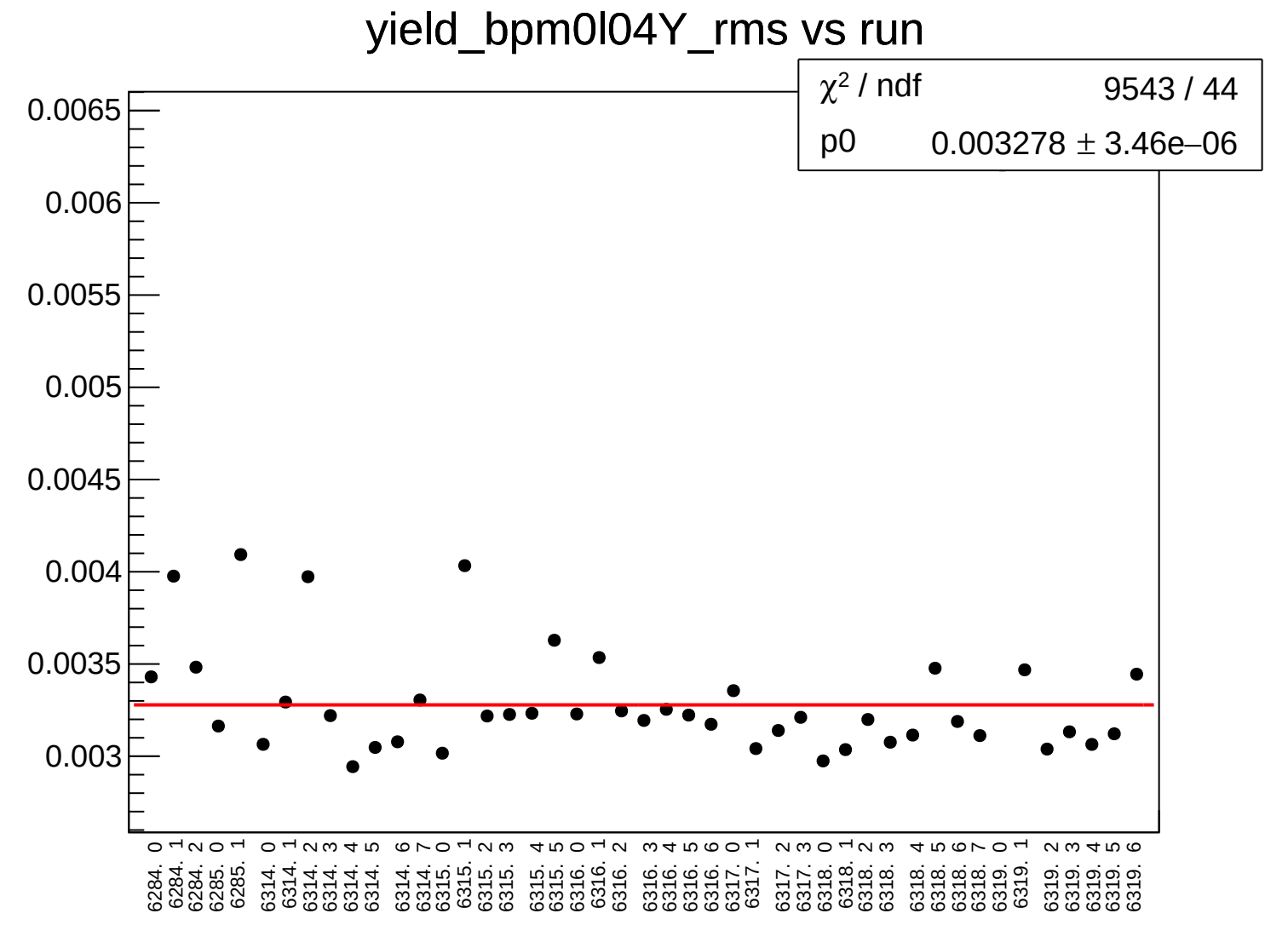
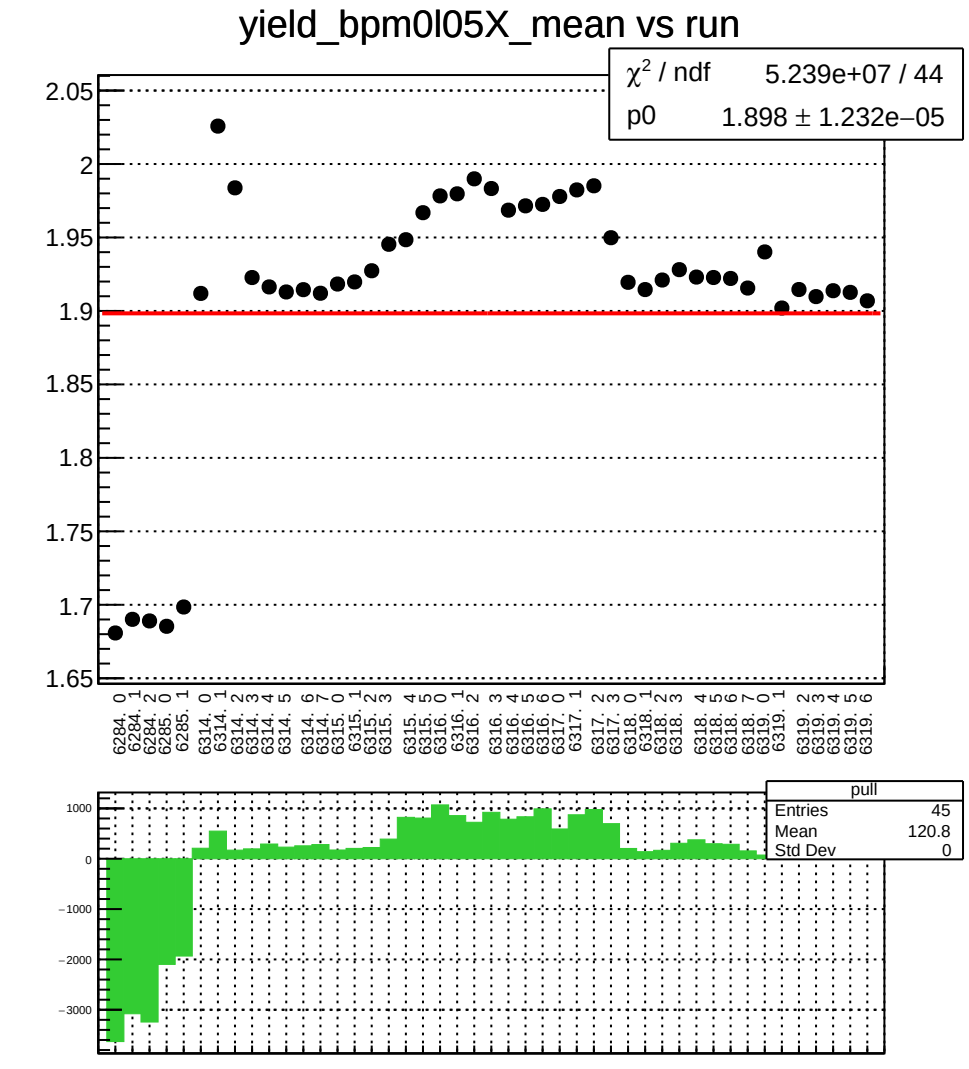
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −316.1
Std Dev 0
3500
3000
2500
2000
1500
1000
500
0
−500


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04Y_rms vs run
χ² / ndf 9543 / 44
p0 0.003278 ± 3.46e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l05X_mean vs run
χ² / ndf 5.239e+07 / 44
p0 1.898 ± 1.232e−05
2.05
2
1.95
1.9
1.85
1.8
1.75
1.7
1.65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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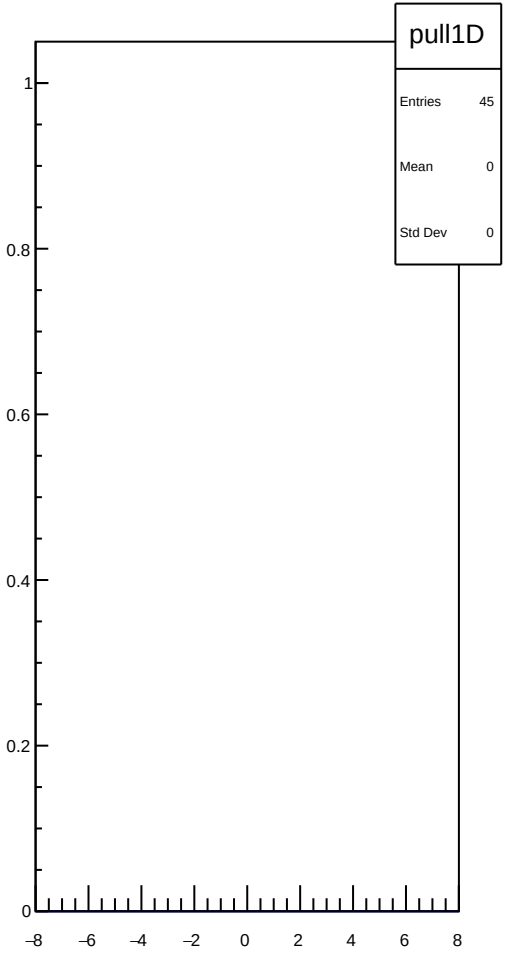
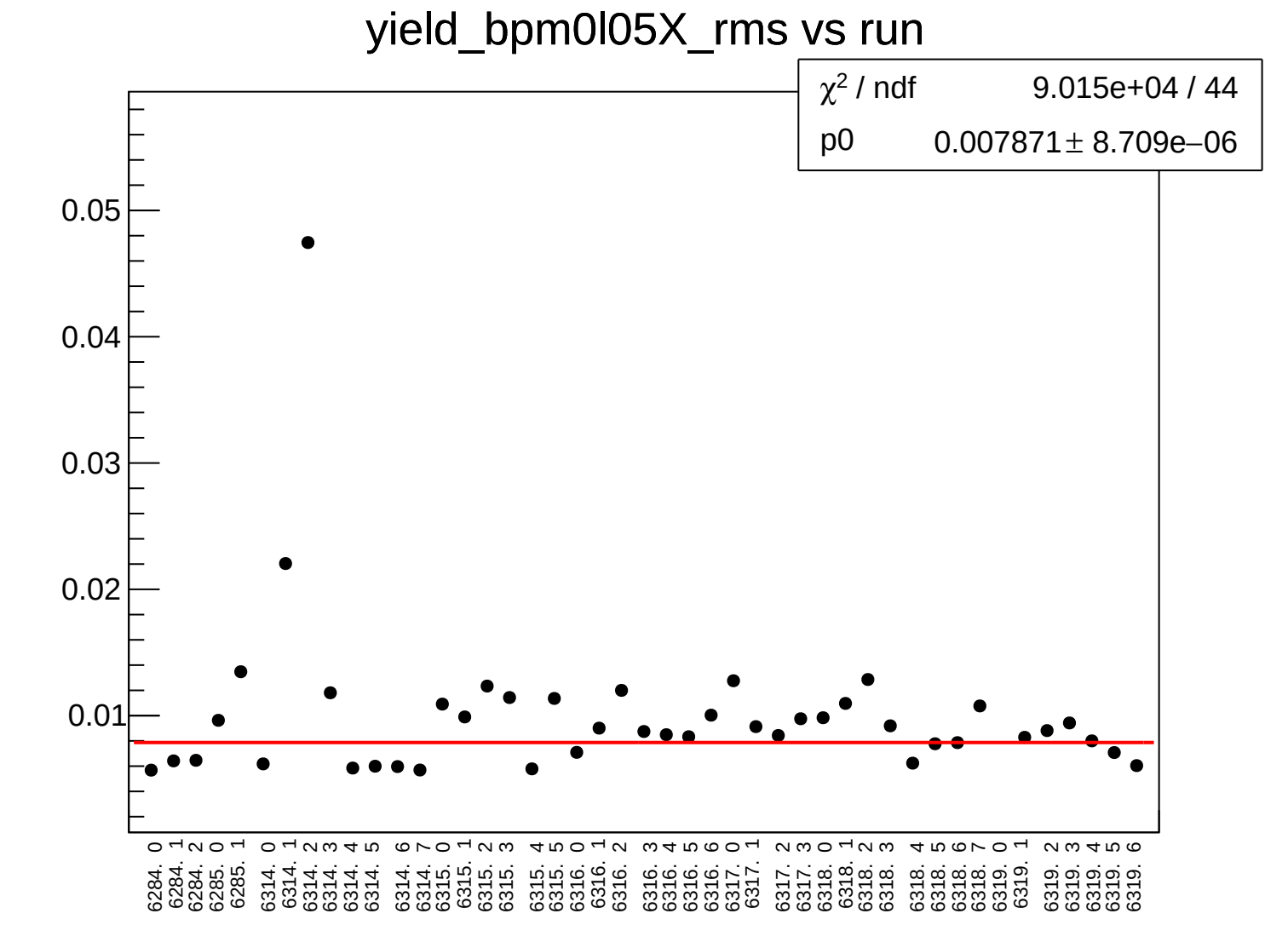
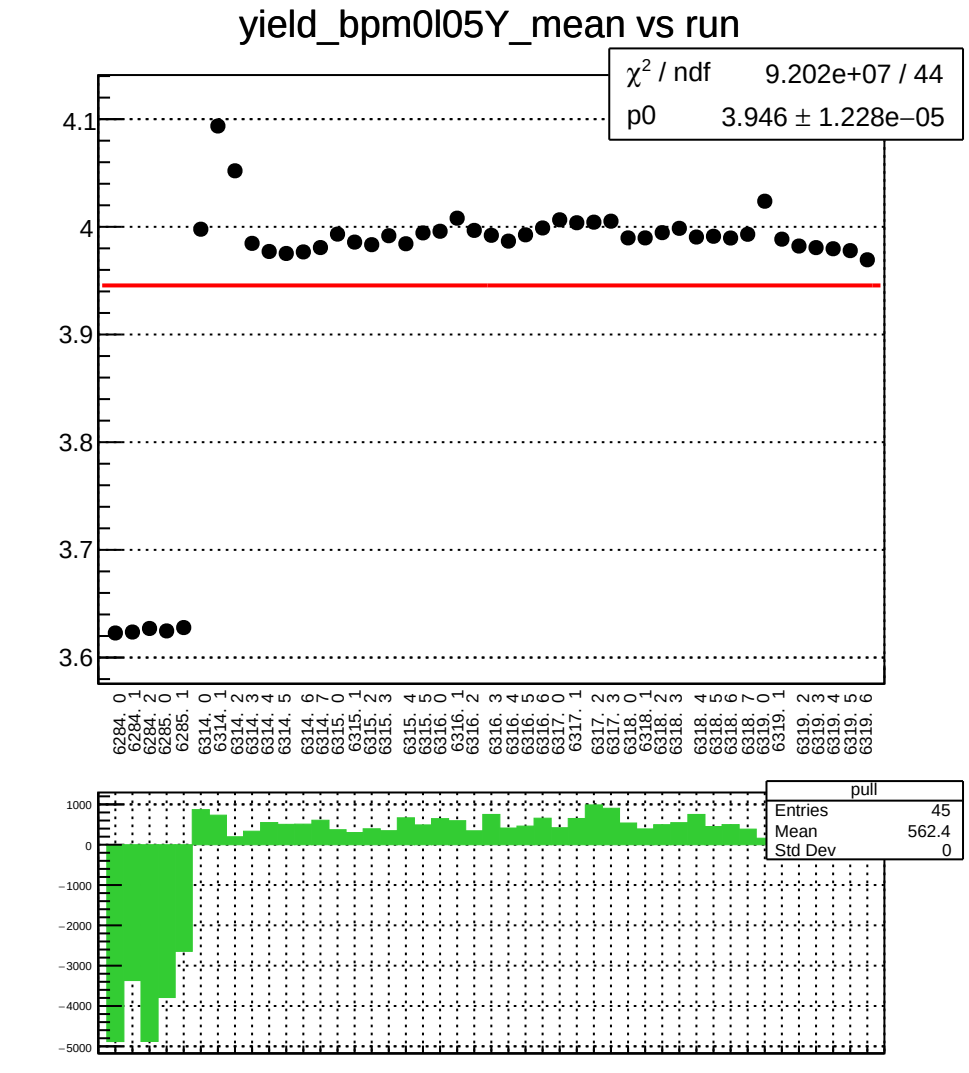
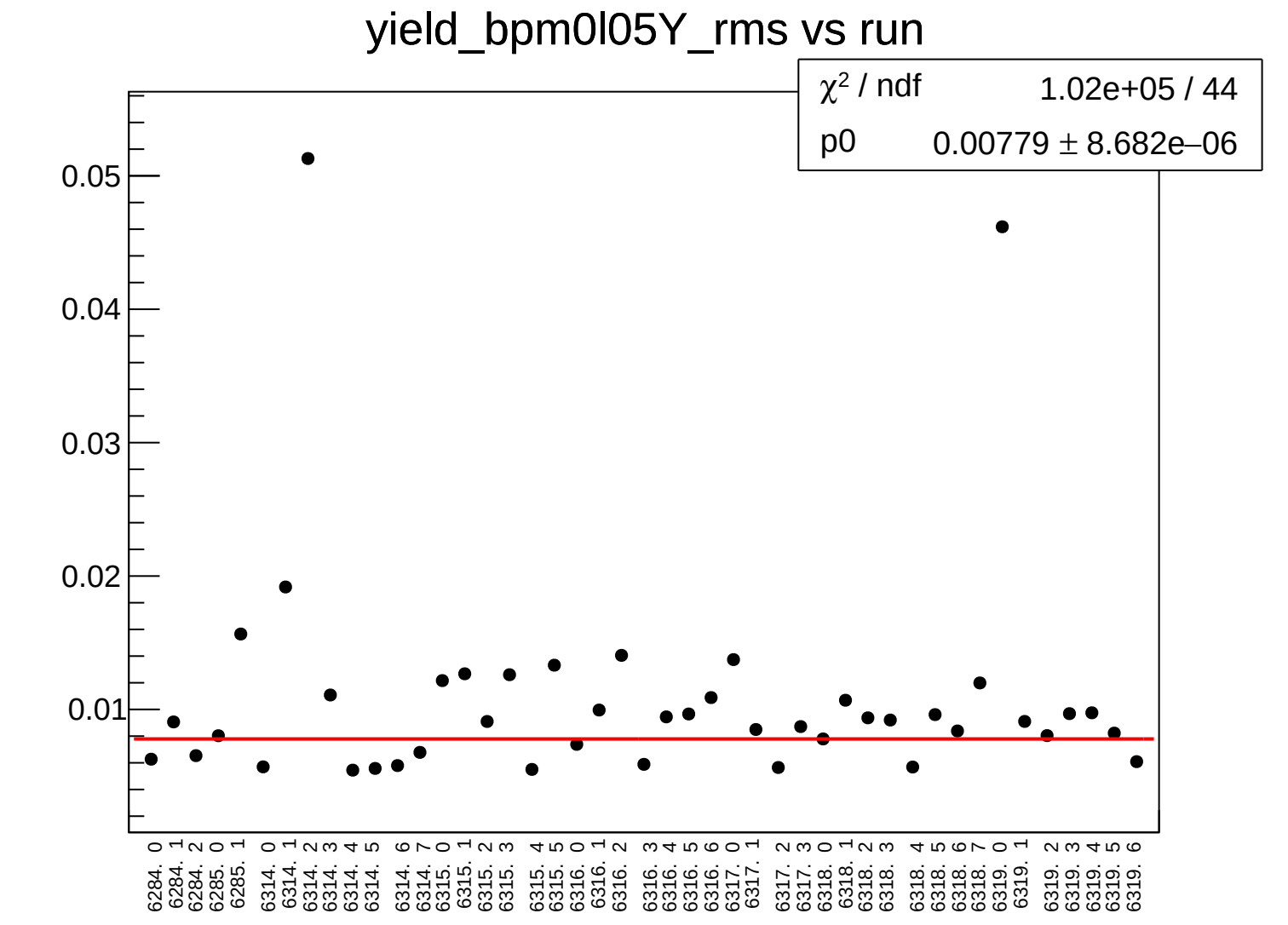
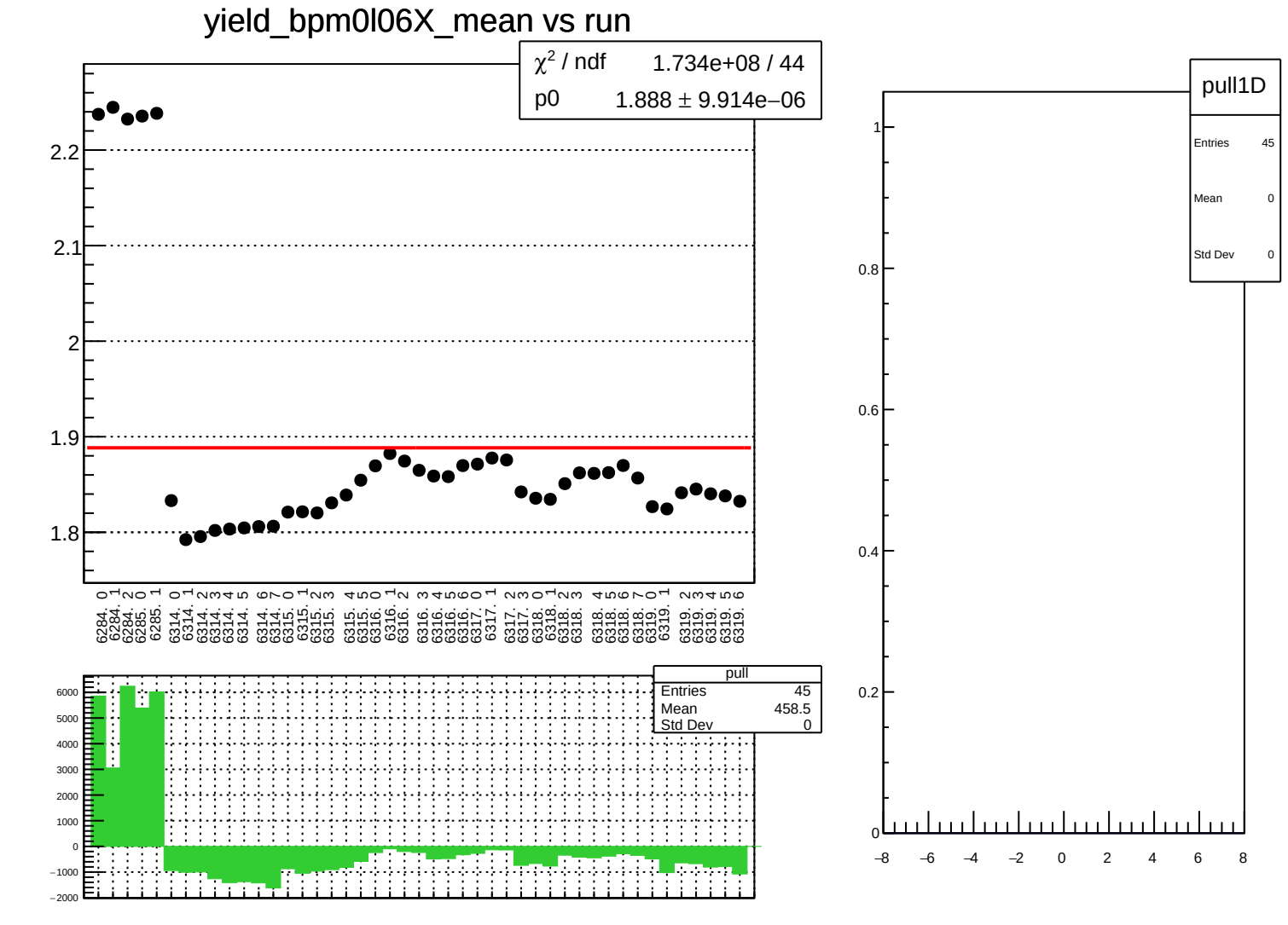
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 120.8
Std Dev 0
1000
0
−1000
−2000
−3000

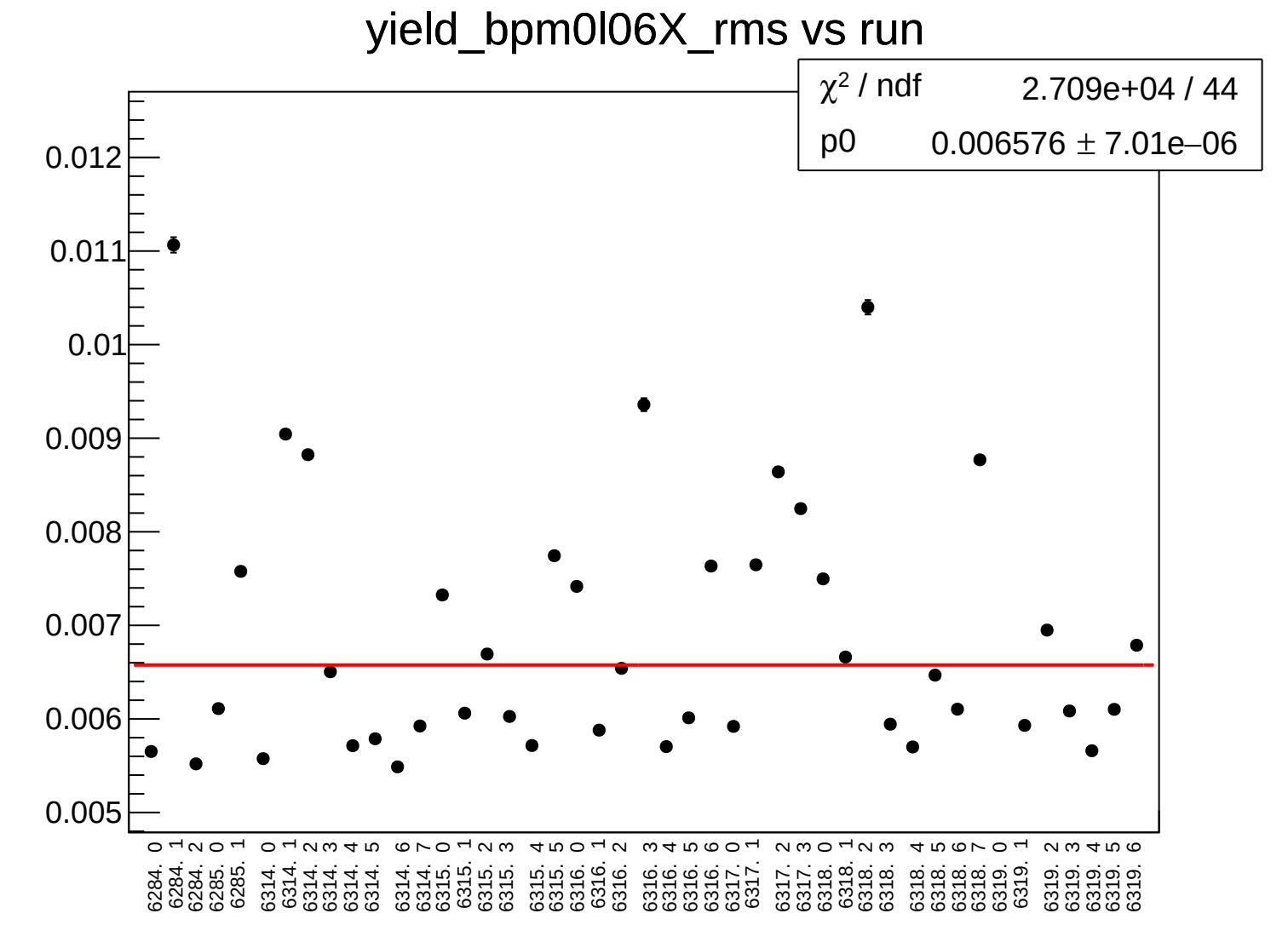

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

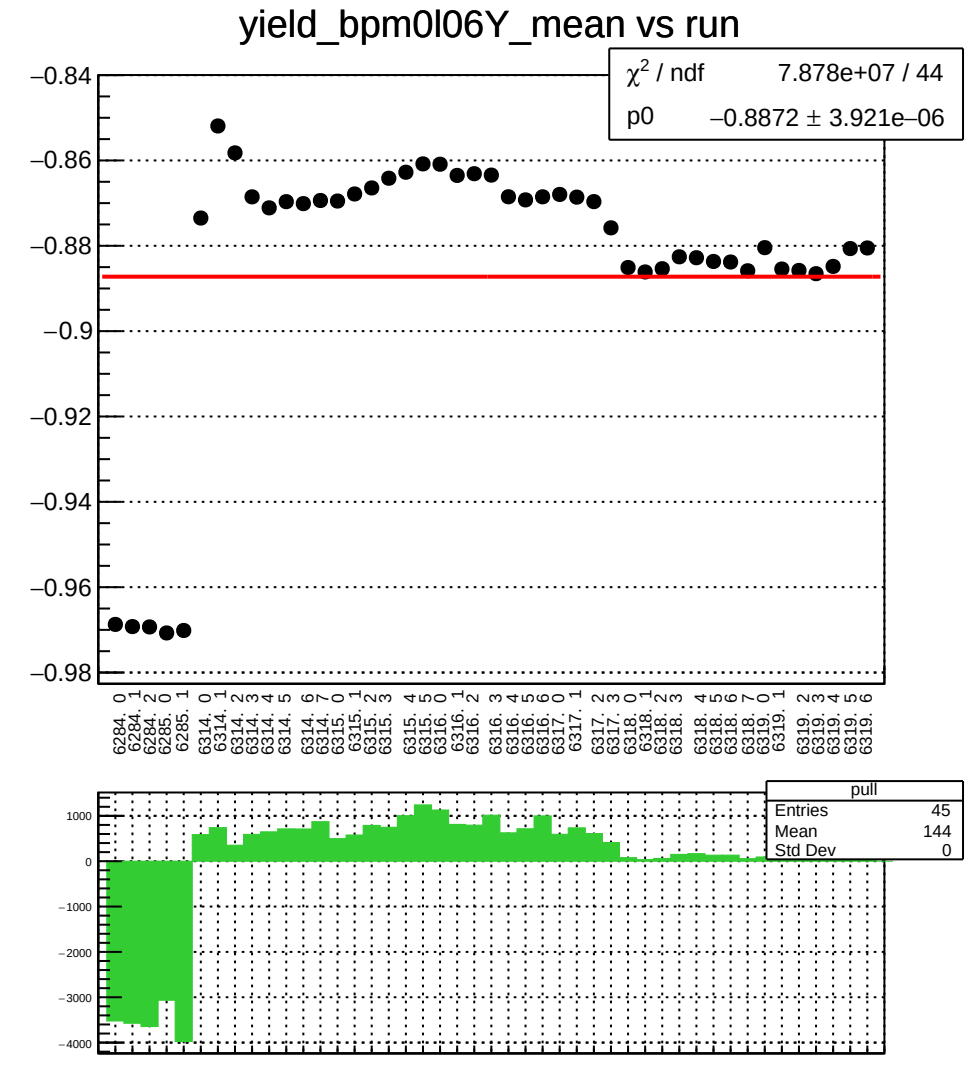

yield_bpm0l05X_rms vs run
χ² / ndf 9.015e+04 / 44
p0 0.007871 ± 8.709e−06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

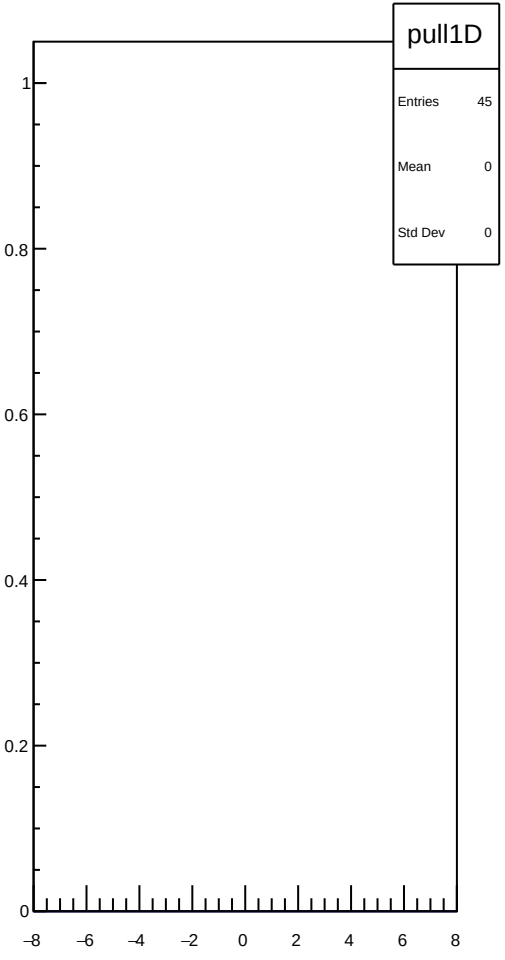

yield_bpm0l05Y_mean vs run
χ² / ndf 9.202e+07 / 44
p0 3.946 ± 1.228e−05
4.1
4
3.9
3.8
3.7
3.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 562.4
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

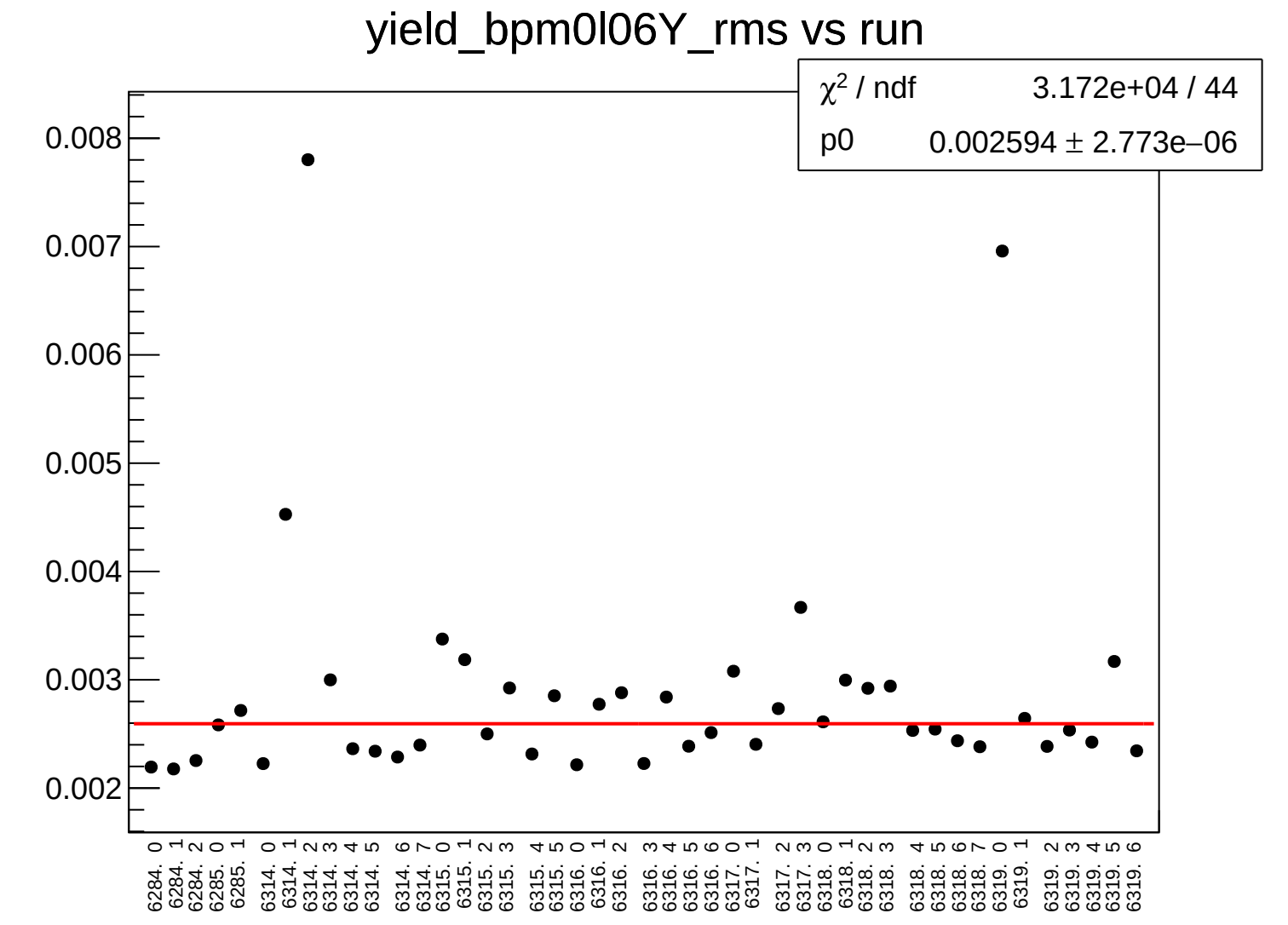

yield_bpm0l05Y_rms vs run
χ² / ndf 1.02e+05 / 44
p0 0.00779 ± 8.682e–06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

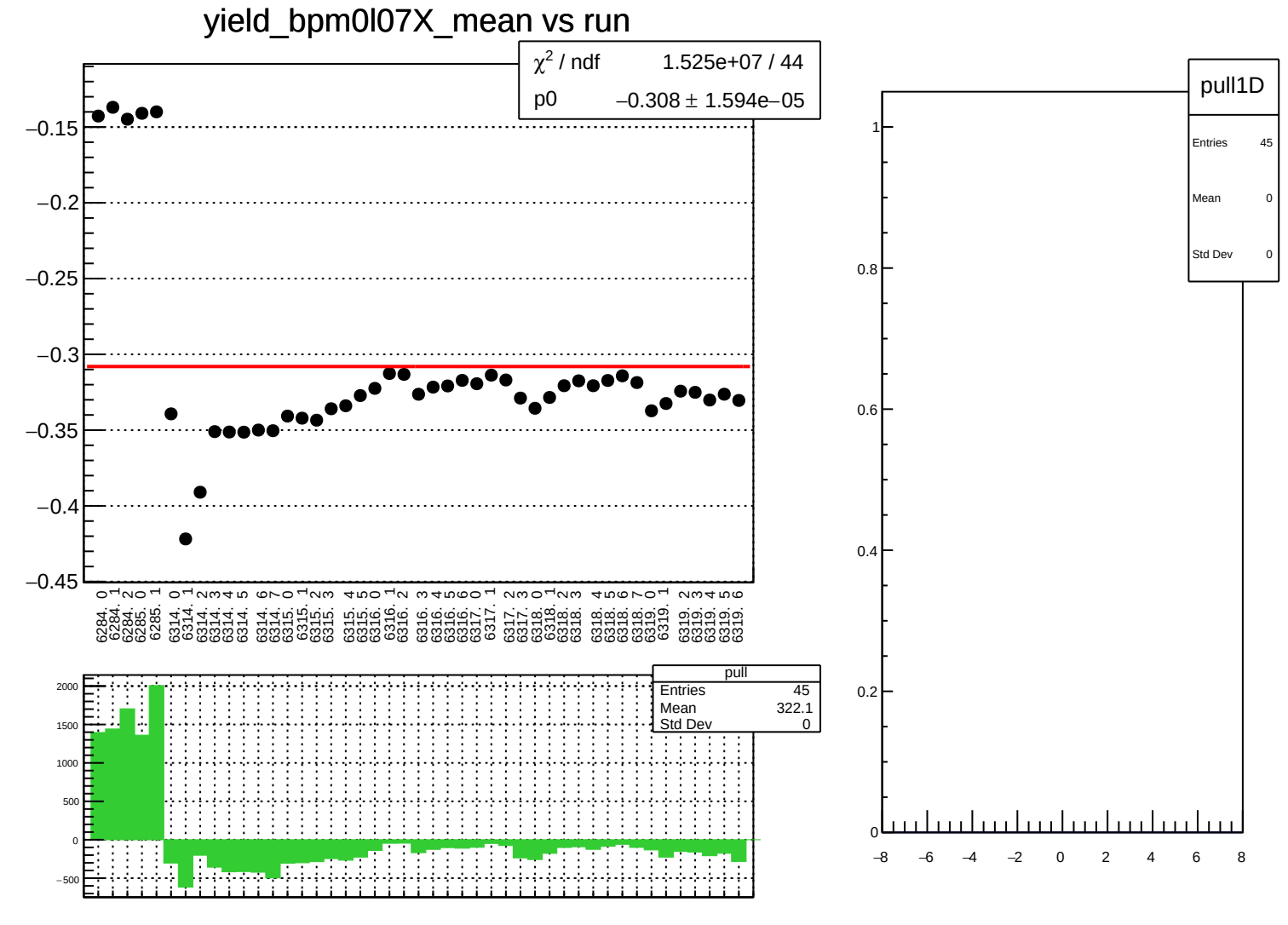

yield_bpm0l06X_mean vs run
χ² / ndf 1.734e+08 / 44
p0 1.888 ± 9.914e−06
2.2
2.1
2
1.9
1.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 458.5
Std Dev 0
6000
5000
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

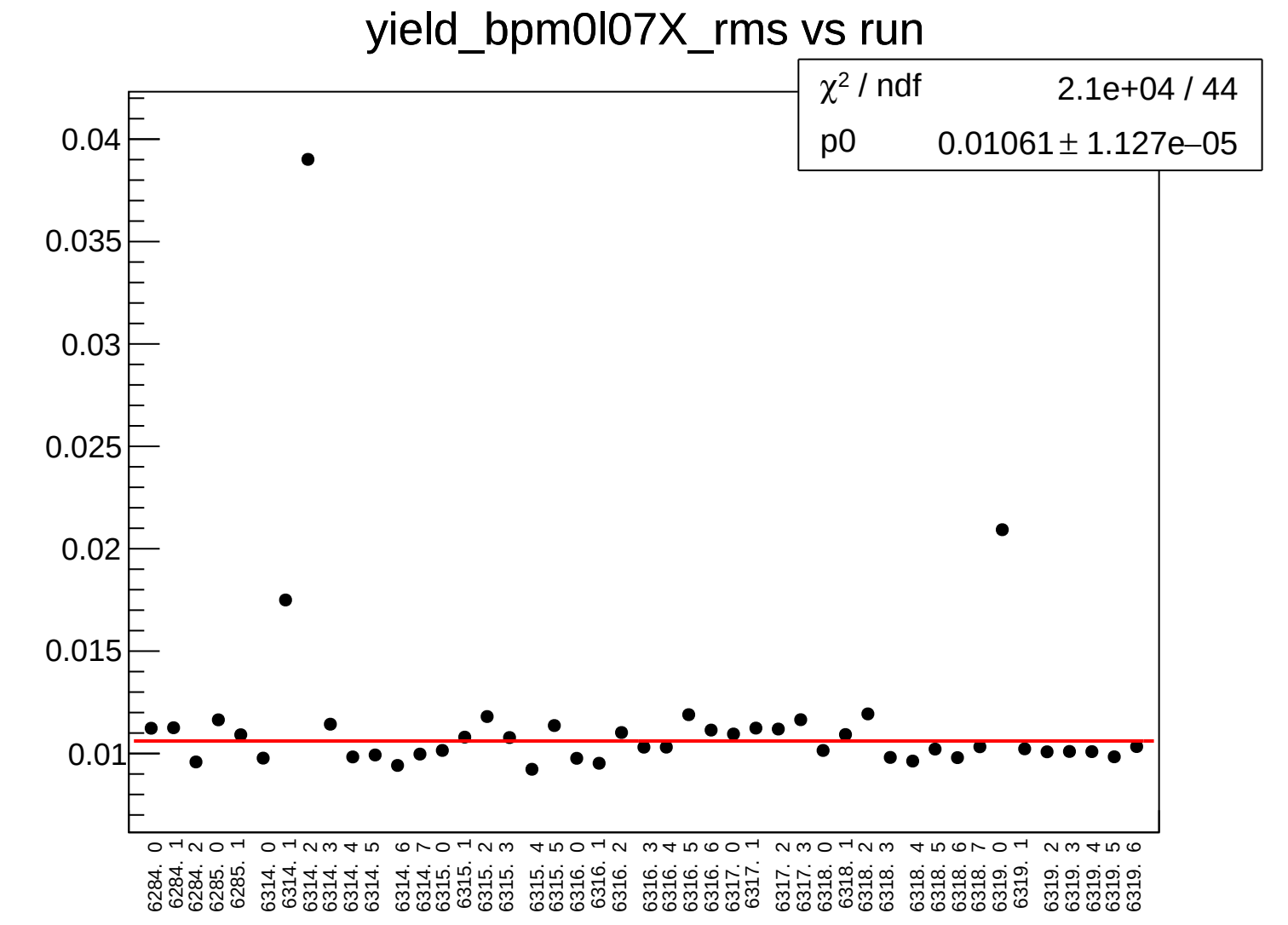

yield_bpm0l06X_rms vs run
χ² / ndf 2.709e+04 / 44
p0 0.006576 ± 7.01e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

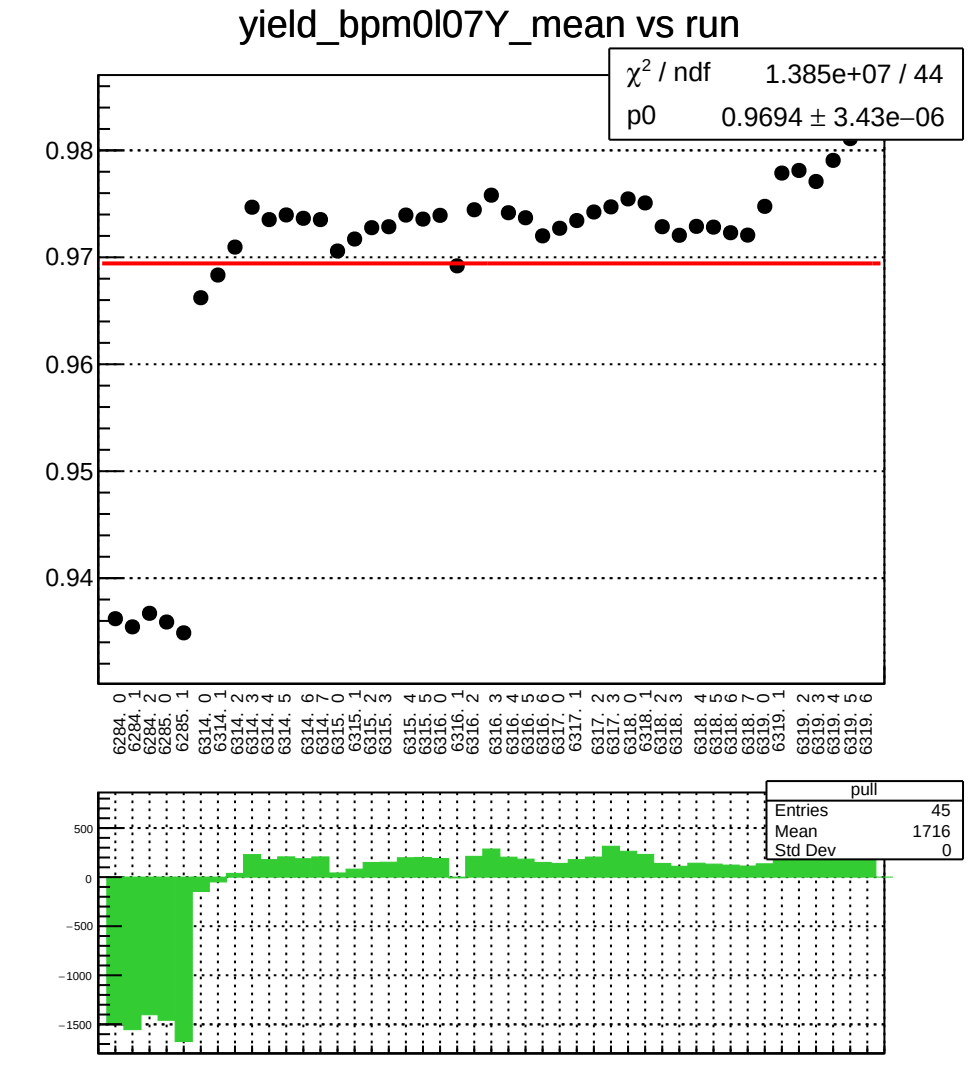

yield_bpm0l06Y_mean vs run
χ² / ndf 7.878e+07 / 44
p0 −0.8872 ± 3.921e−06
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 144
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

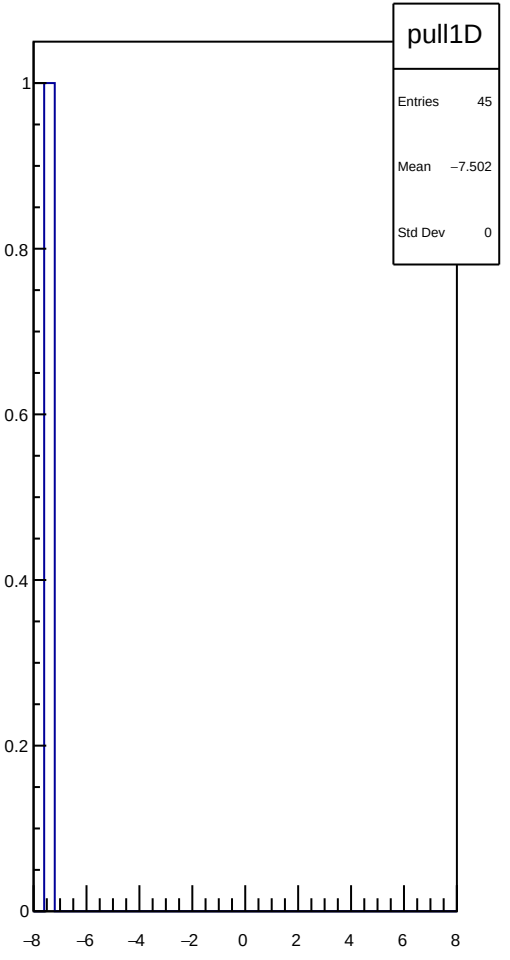

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

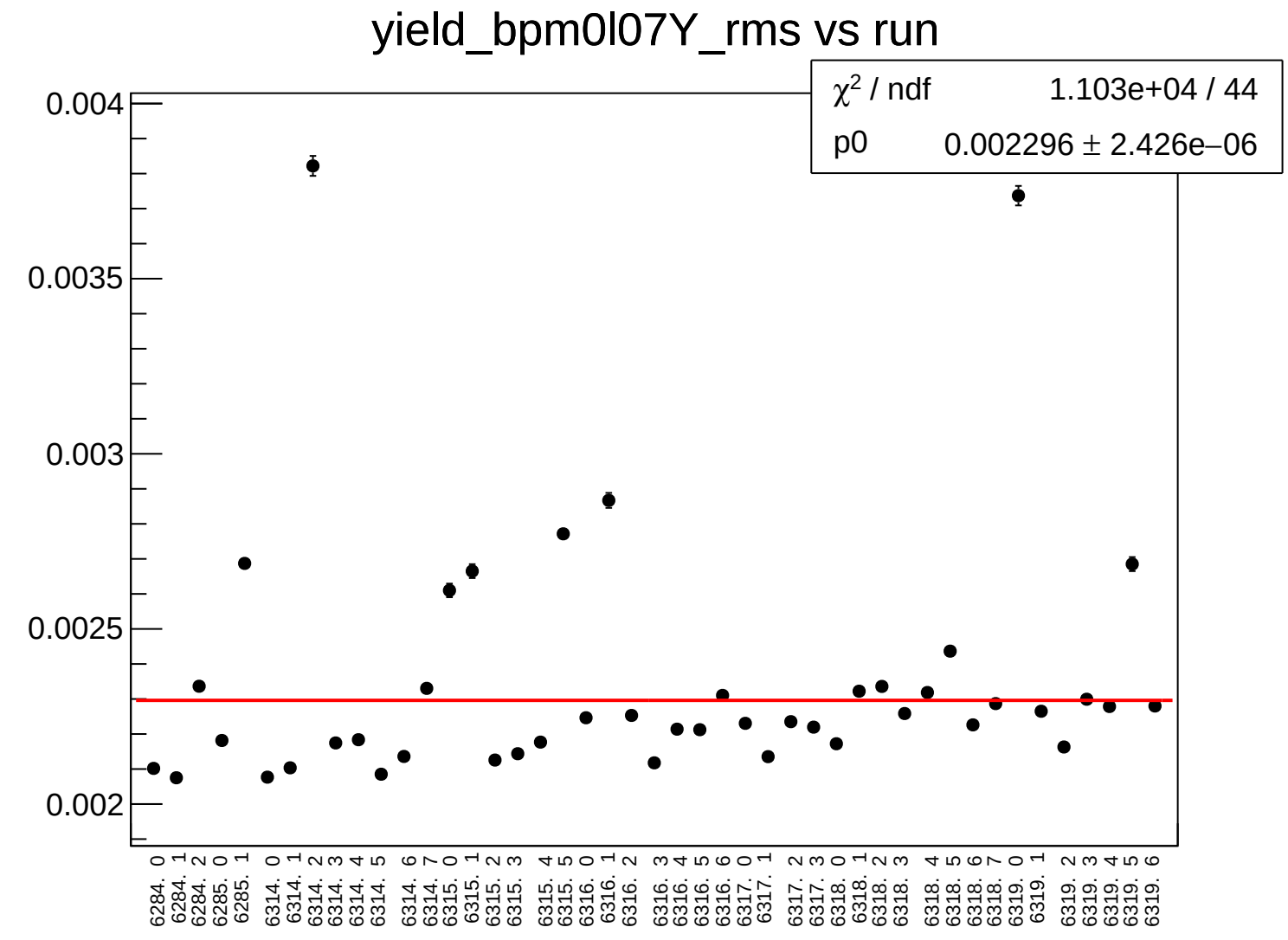

yield_bpm0l06Y_rms vs run
χ² / ndf 3.172e+04 / 44
p0 0.002594 ± 2.773e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

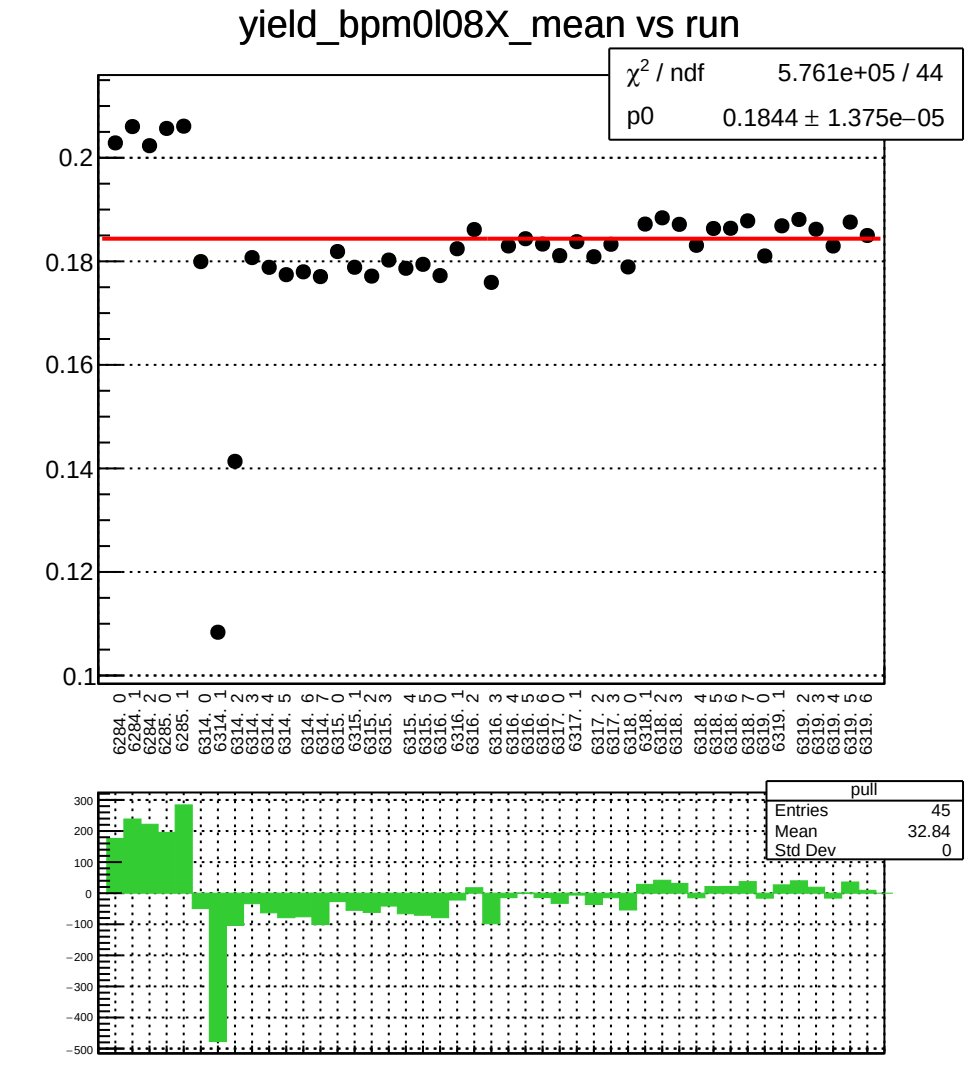

yield_bpm0l07X_mean vs run
χ² / ndf 1.525e+07 / 44
p0 −0.308 ± 1.594e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 322.1
Std Dev 0
2000
1500
1000
500
0
−500
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l07X_rms vs run
χ² / ndf 2.1e+04 / 44
p0 0.01061 ± 1.127e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l07Y_mean vs run
χ² / ndf 1.385e+07 / 44
p0 0.9694 ± 3.43e−06
0.98
0.97
0.96
0.95
0.94
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1716
Std Dev 0
500
0
−500
−1000
−1500


pull1D
Entries 45
Mean −7.502
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l07Y_rms vs run
χ² / ndf 1.103e+04 / 44
p0 0.002296 ± 2.426e−06
0.004
0.0035
0.003
0.0025
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l08X_mean vs run
χ² / ndf 5.761e+05 / 44
p0 0.1844 ± 1.375e−05
0.2
0.18
0.16
0.14
0.12
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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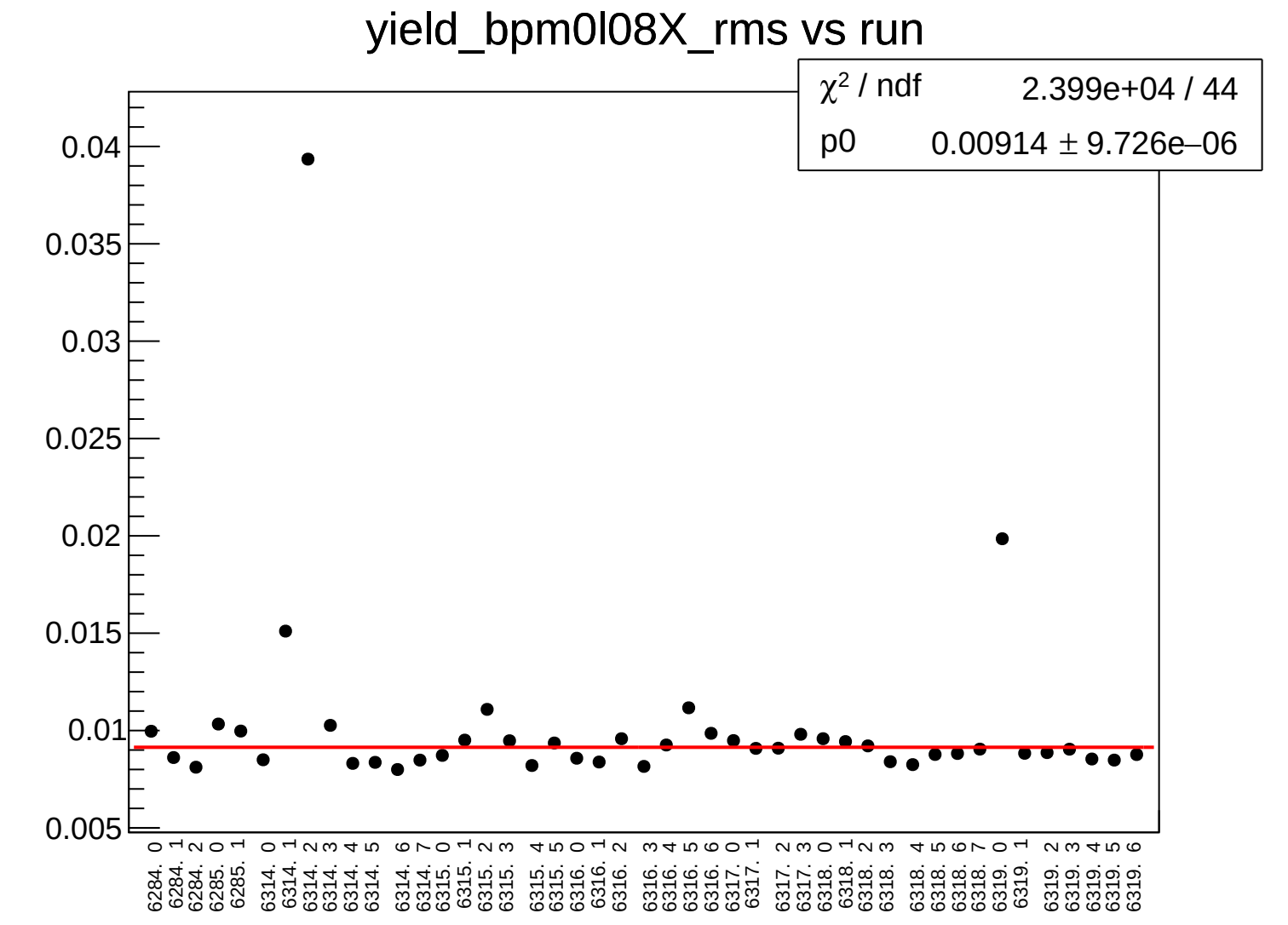
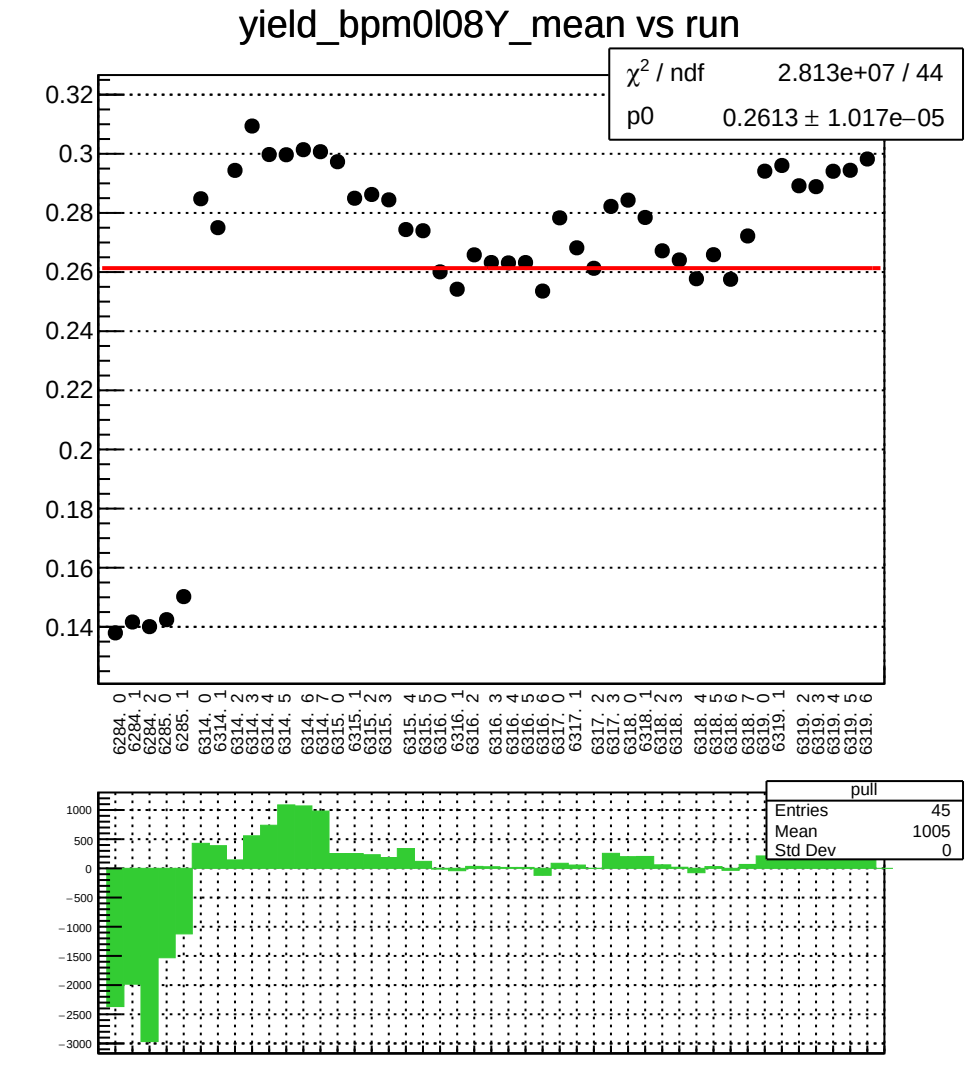
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 32.84
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 45
Mean −3.024
Std Dev 2.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l08X_rms vs run
χ² / ndf 2.399e+04 / 44
p0 0.00914 ± 9.726e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l08Y_mean vs run
χ² / ndf 2.813e+07 / 44
p0 0.2613 ± 1.017e−05
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
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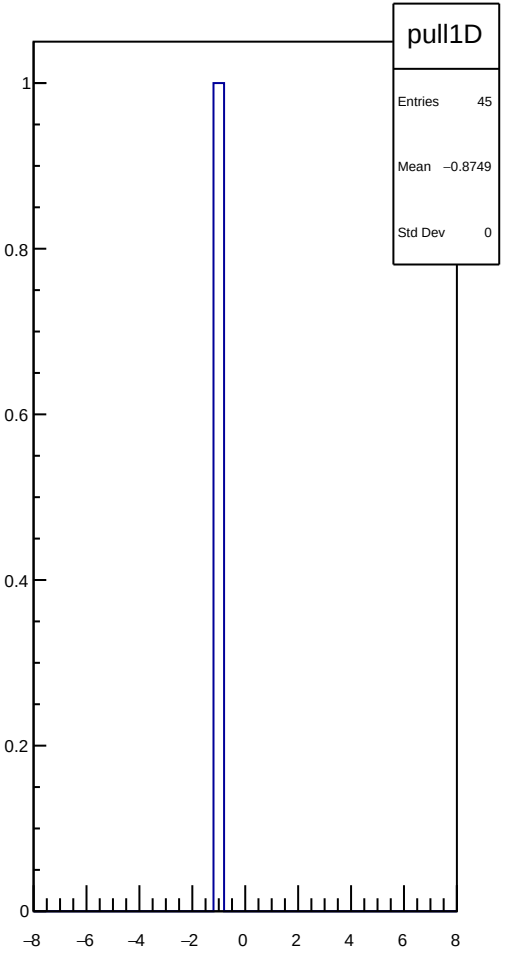
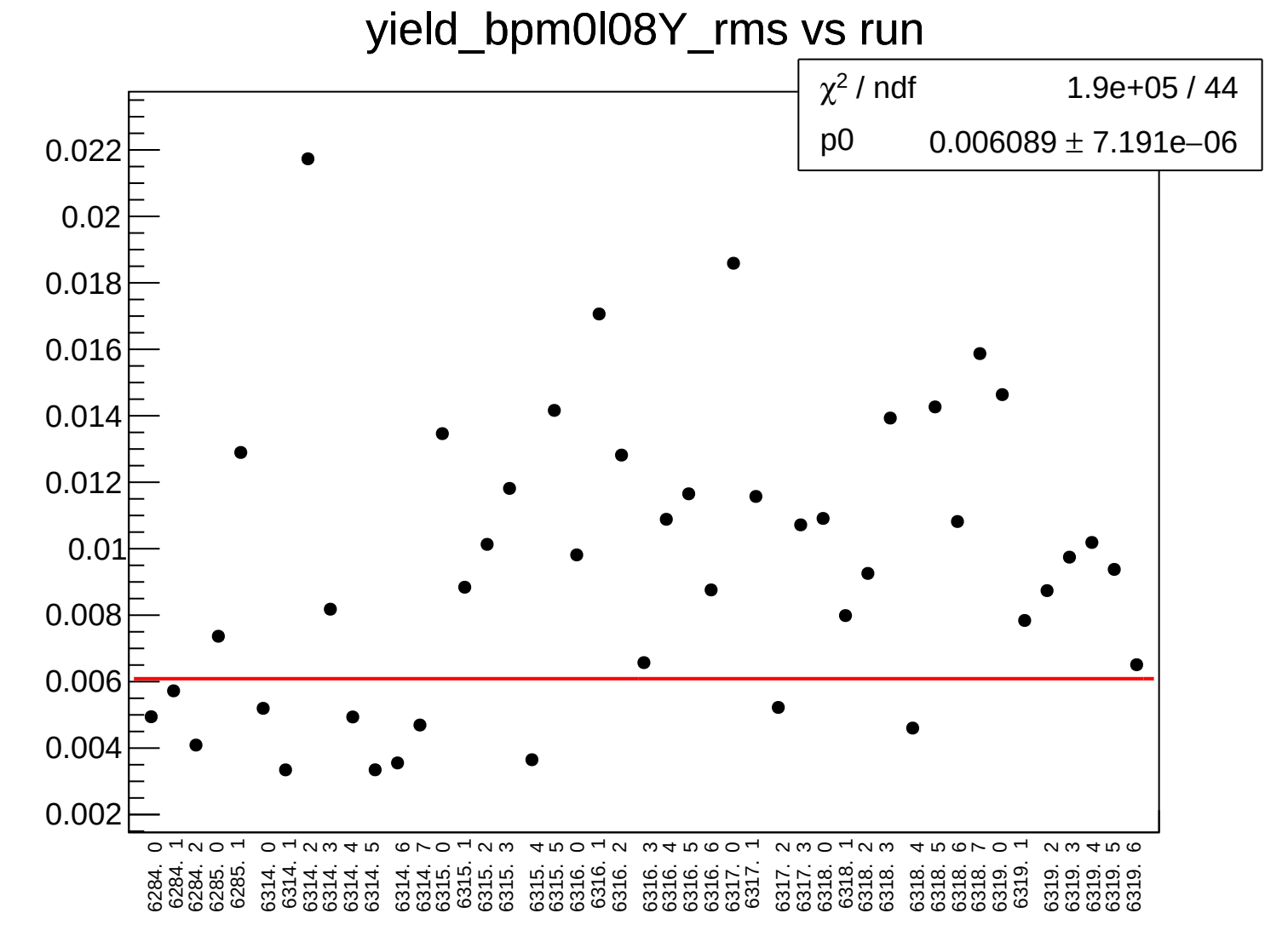
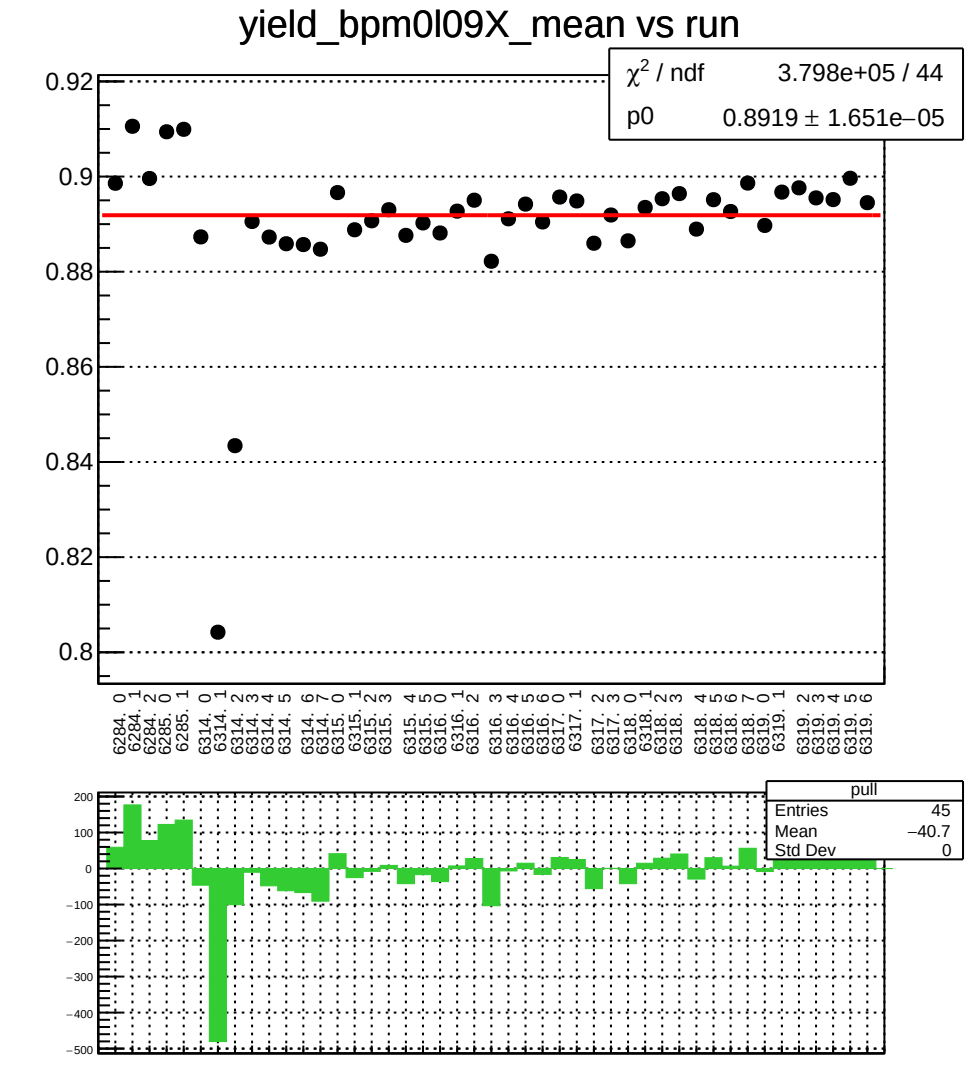
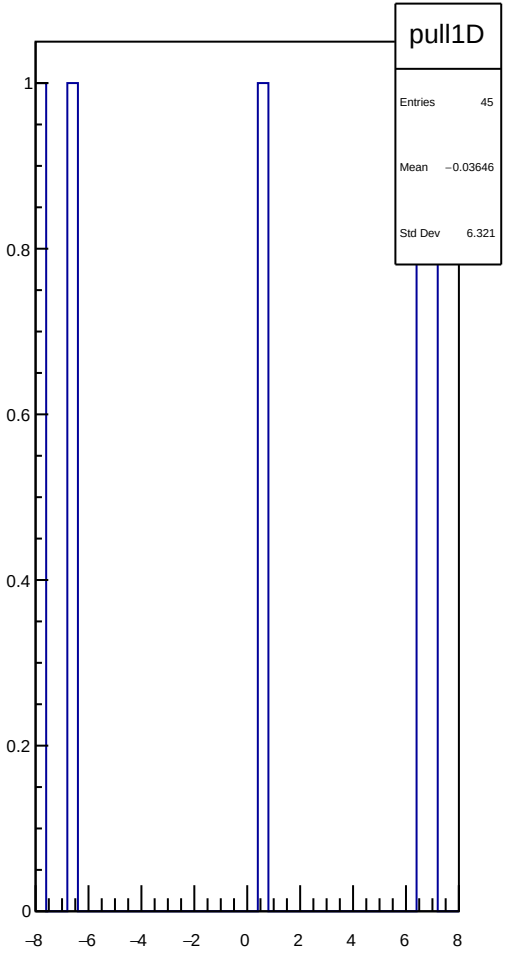
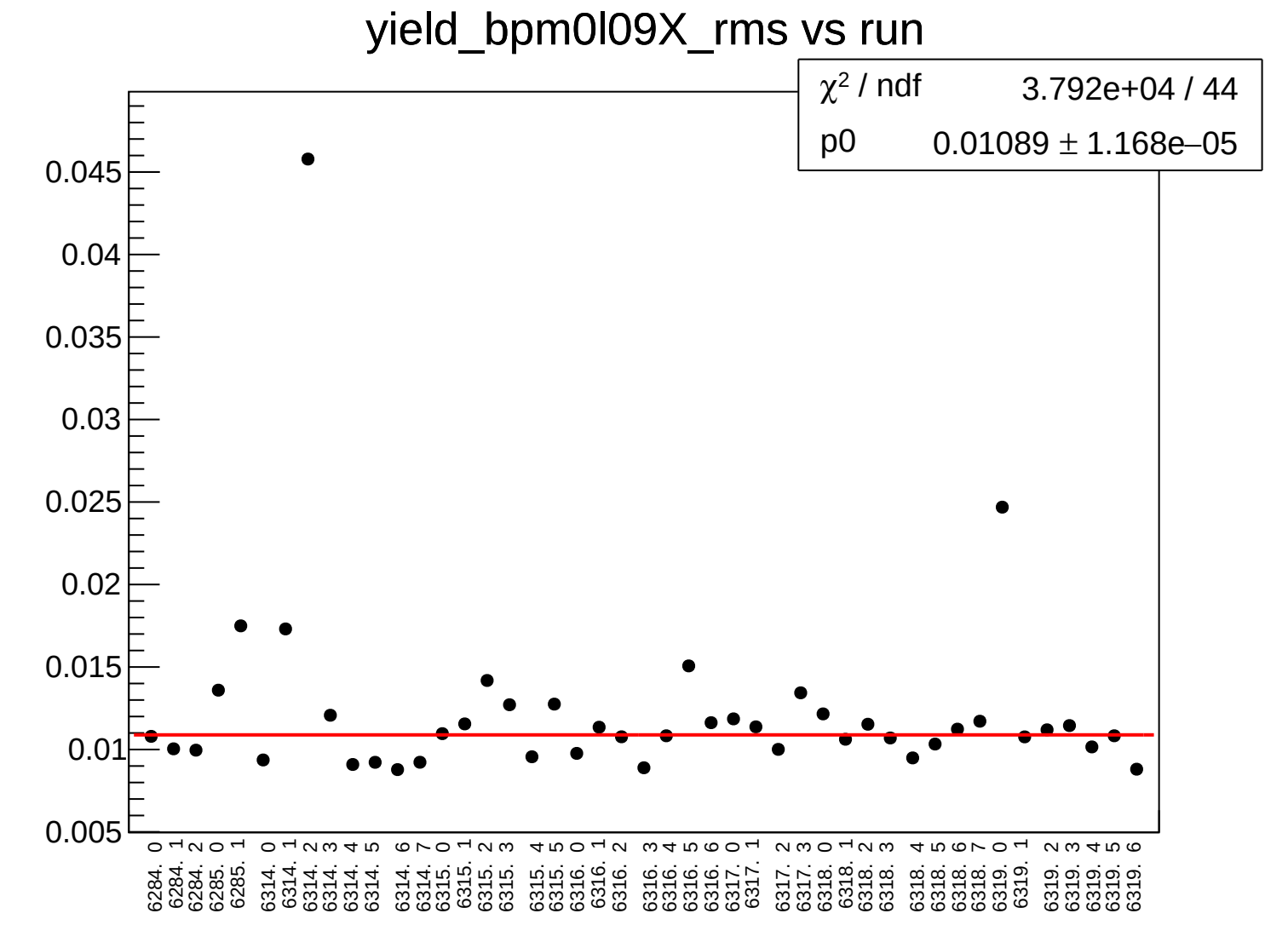
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1005
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

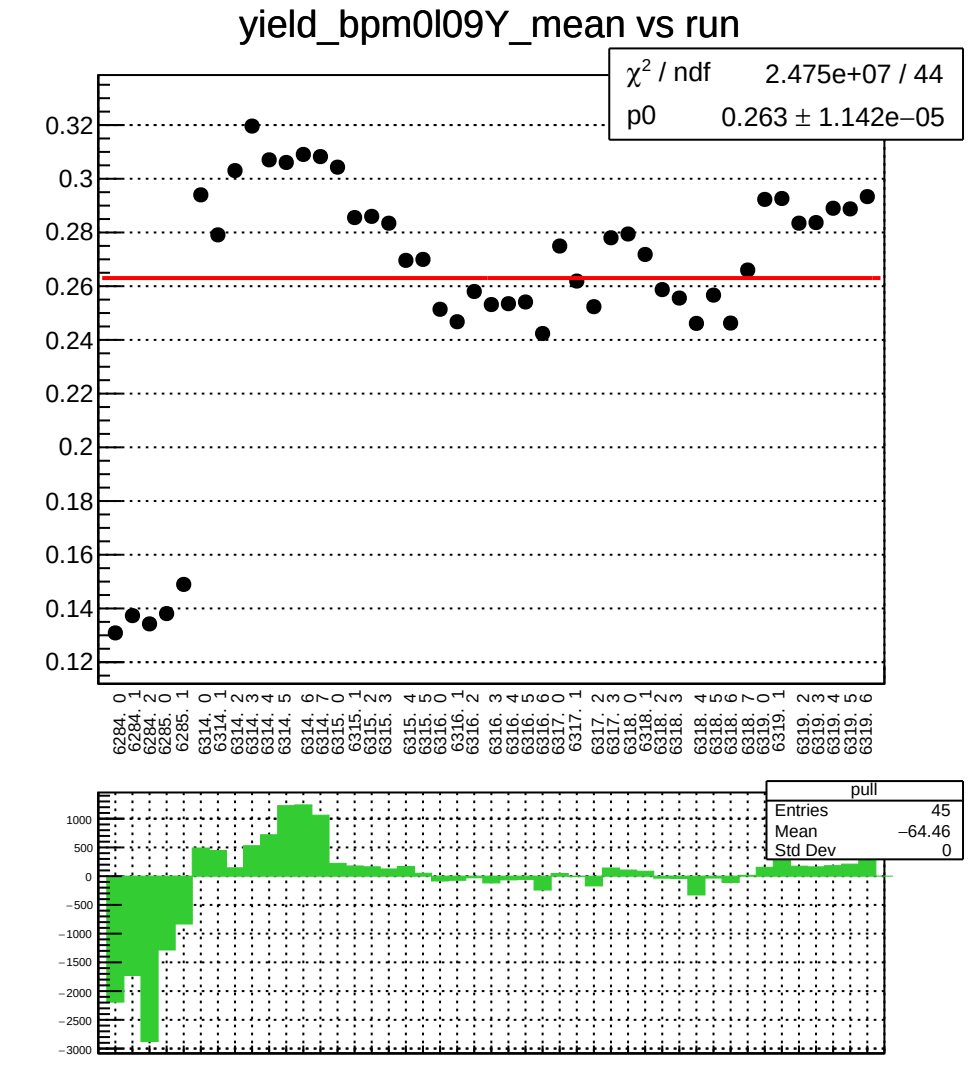

pull1D
Entries 45
Mean −0.8749
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

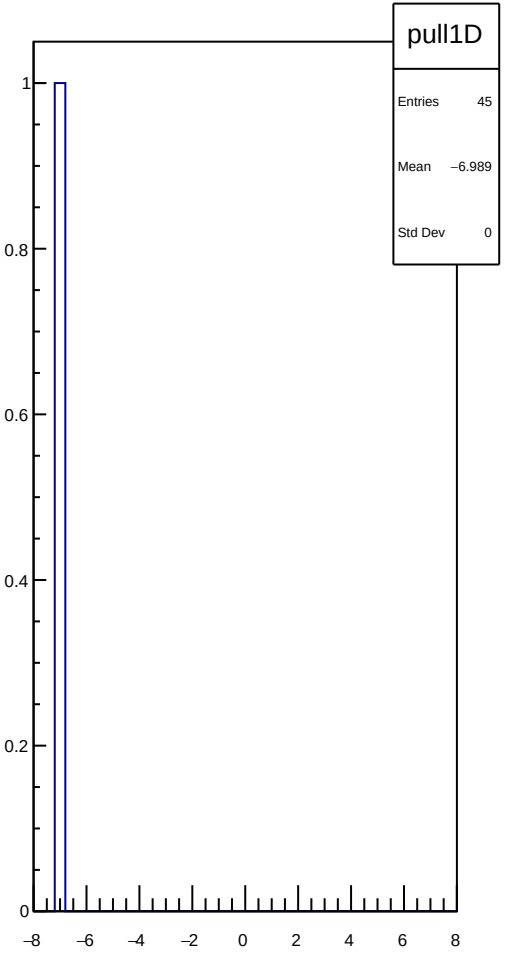

yield_bpm0l08Y_rms vs run
χ² / ndf 1.9e+05 / 44
p0 0.006089 ± 7.191e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

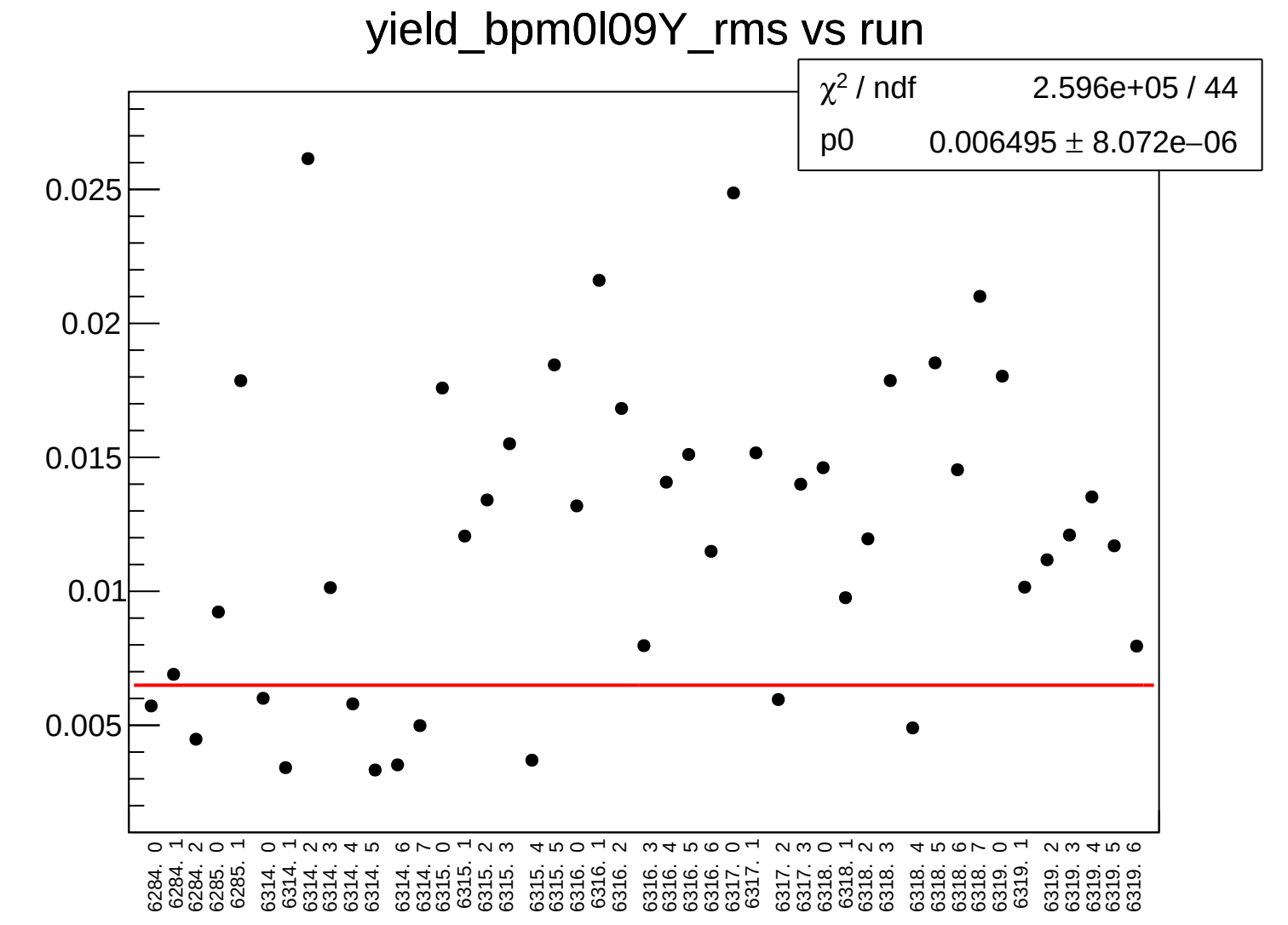

yield_bpm0l09X_mean vs run
χ² / ndf 3.798e+05 / 44
p0 0.8919 ± 1.651e−05
0.92
0.9
0.88
0.86
0.84
0.82
0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −40.7
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

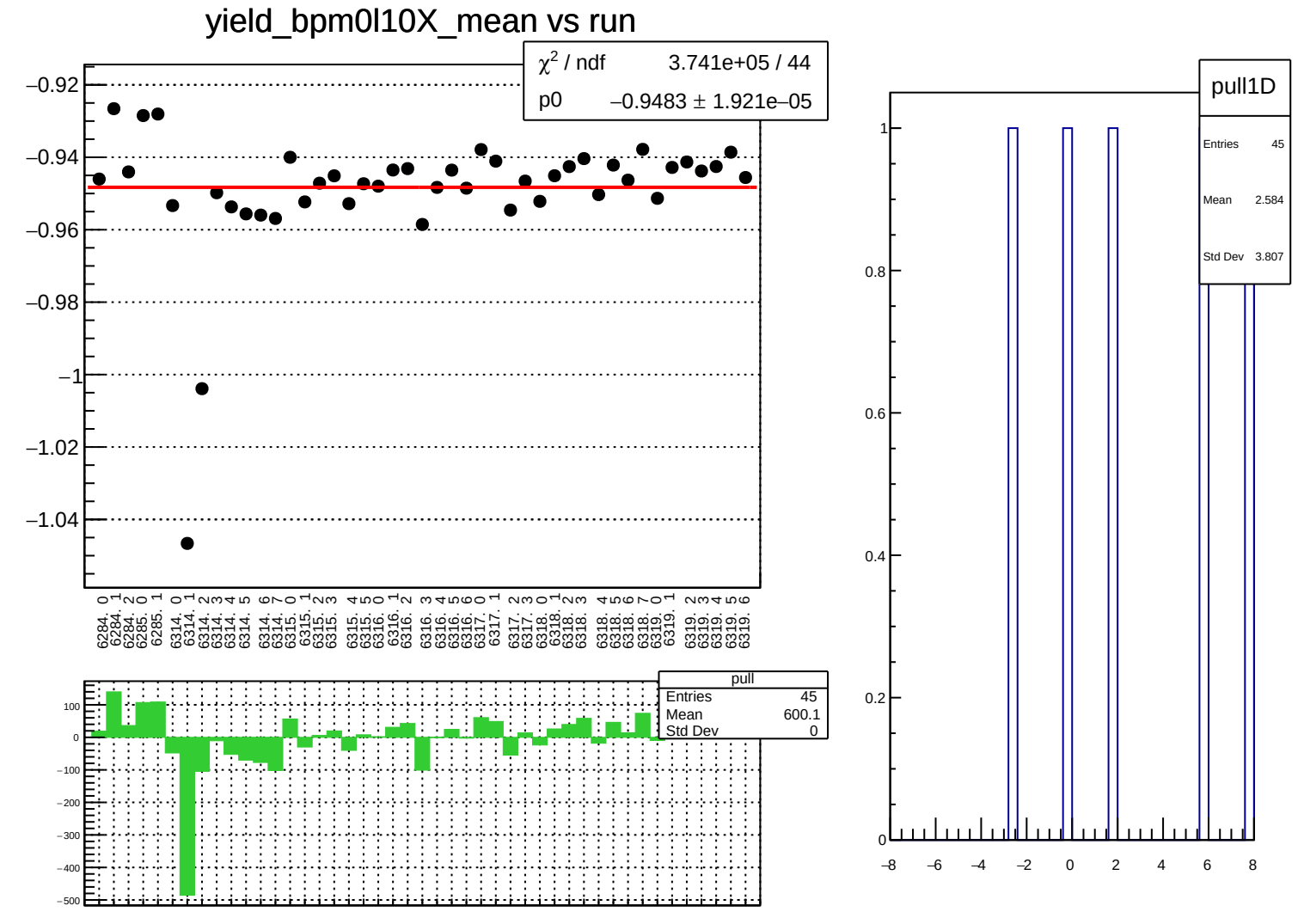

pull1D
Entries 45
Mean −0.03646
Std Dev 6.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

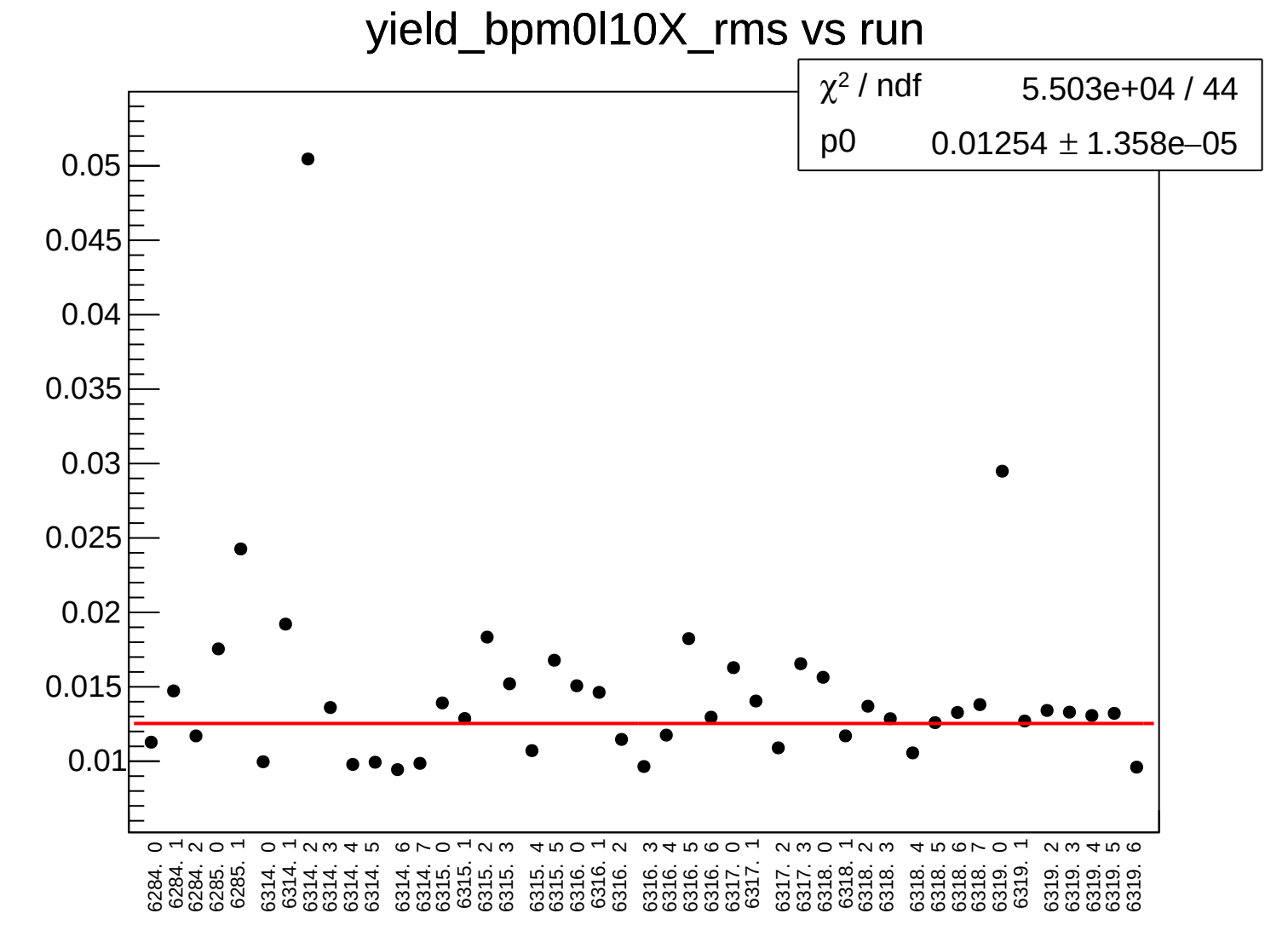

yield_bpm0l09X_rms vs run
χ² / ndf 3.792e+04 / 44
p0 0.01089 ± 1.168e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l09Y_mean vs run
χ² / ndf 2.475e+07 / 44
p0 0.263 ± 1.142e−05
pull
Entries 45
Mean −64.46
Std Dev 0


pull1D
Entries 45
Mean −6.989
Std Dev 0


yield_bpm0l09Y_rms vs run
χ² / ndf 2.596e+05 / 44
p0 0.006495 ± 8.072e−06
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0l10X_mean vs run
χ² / ndf 3.741e+05 / 44
p0 −0.9483 ± 1.921e−05
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 600.1
Std Dev 0
100
0
−100
−200
−300
−400
−500
pull1D
Entries 45
Mean 2.584
Std Dev 3.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l10X_rms vs run
χ² / ndf 5.503e+04 / 44
p0 0.01254 ± 1.358e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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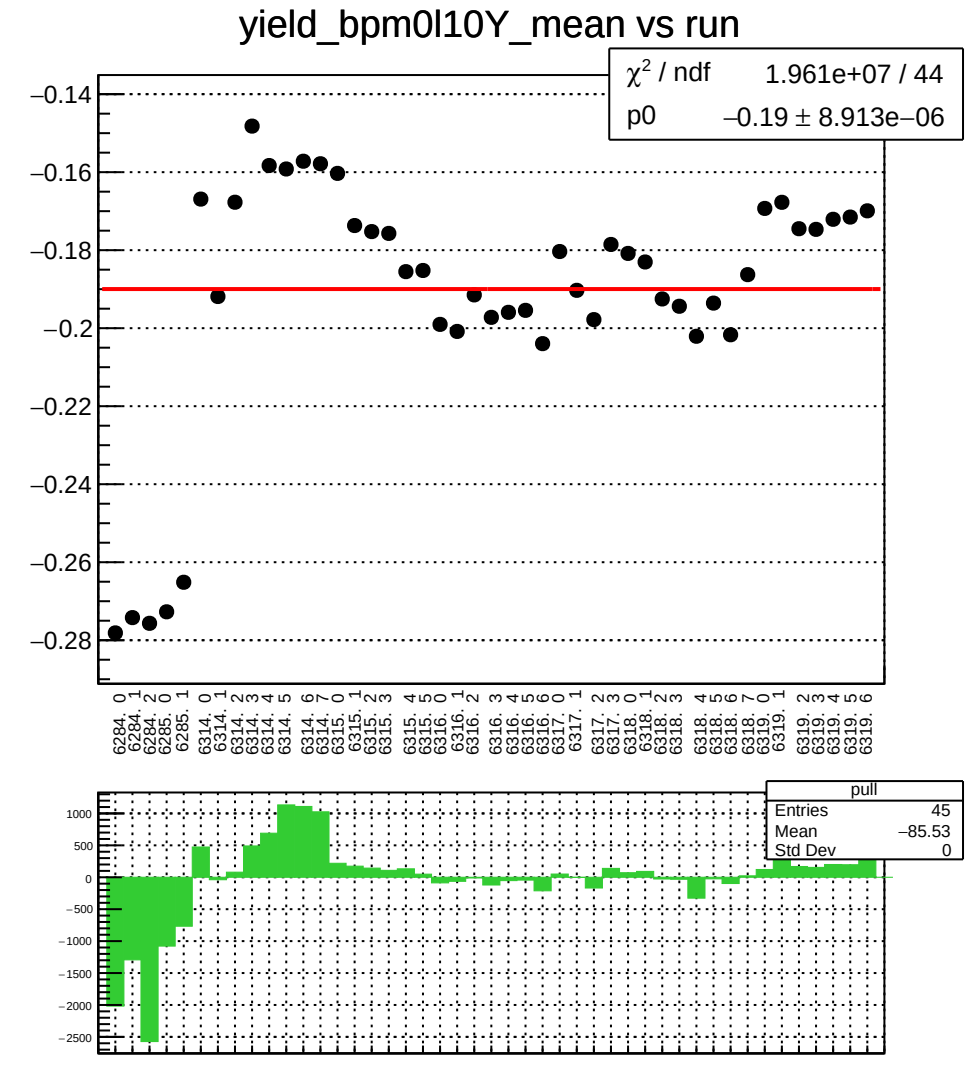
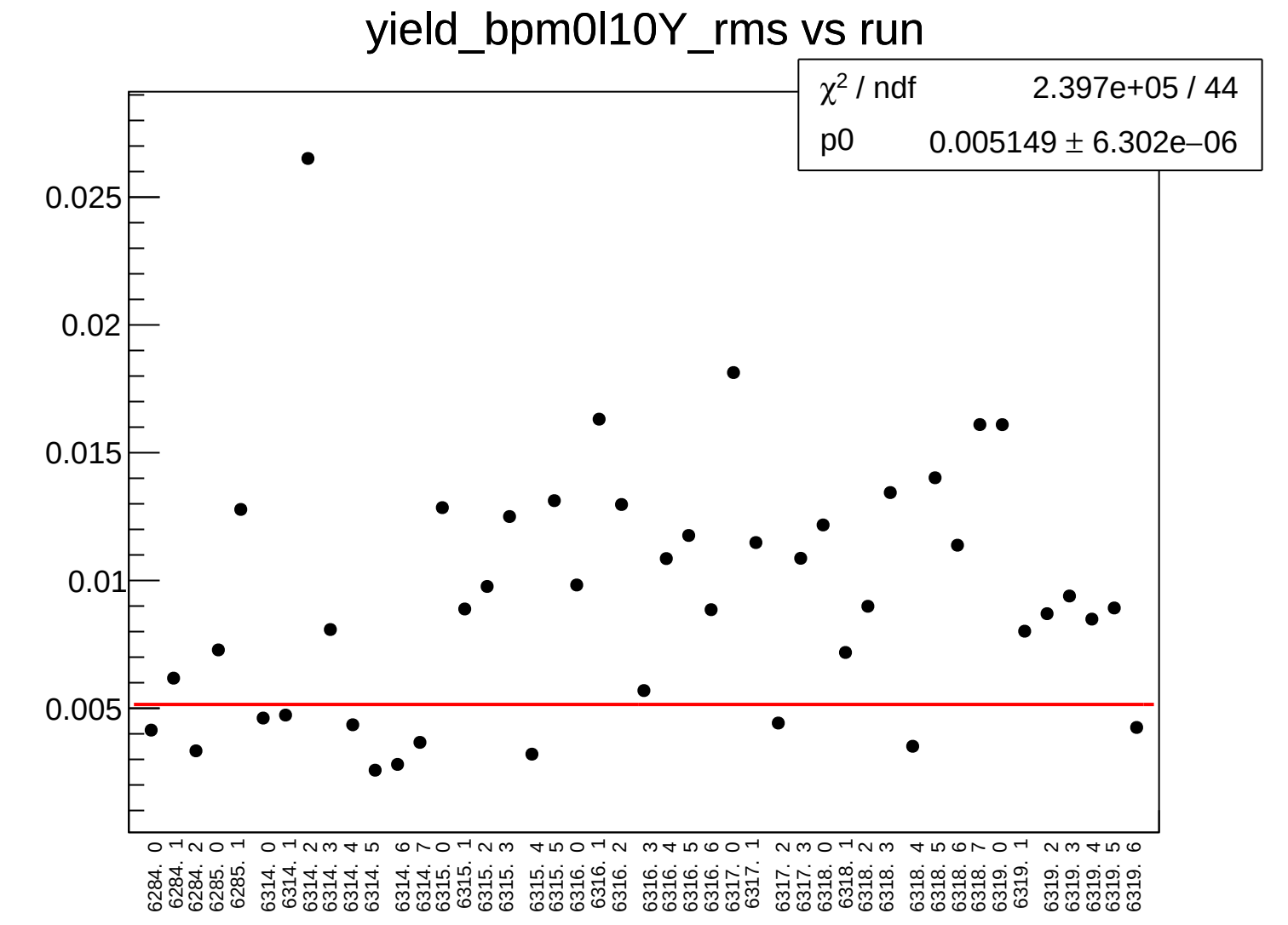
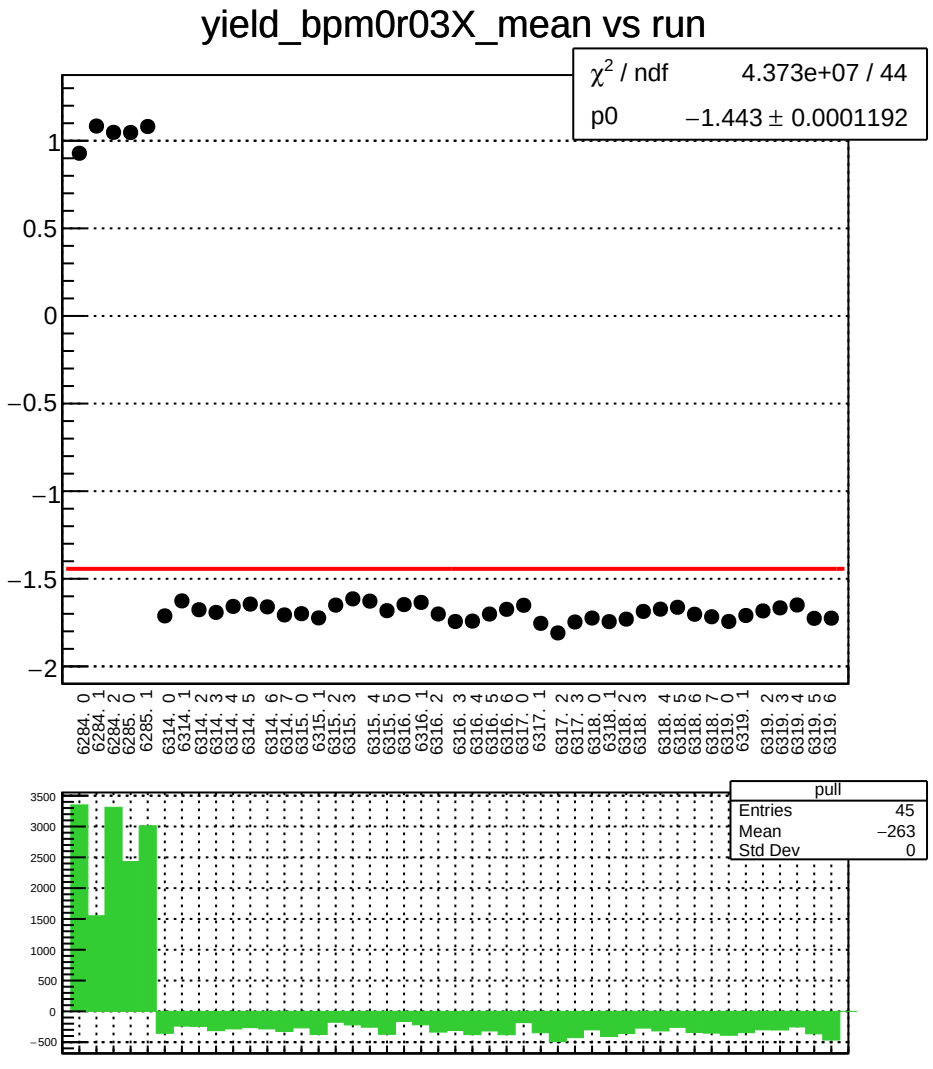
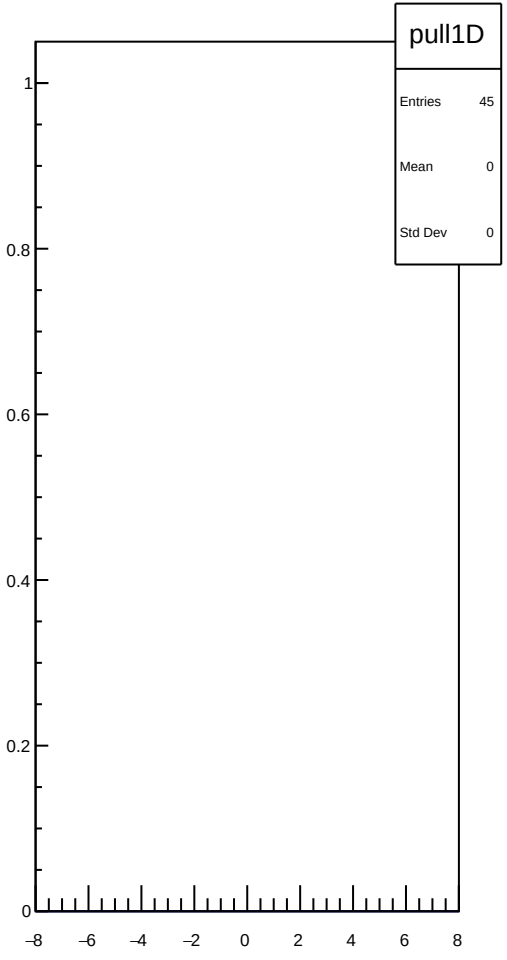
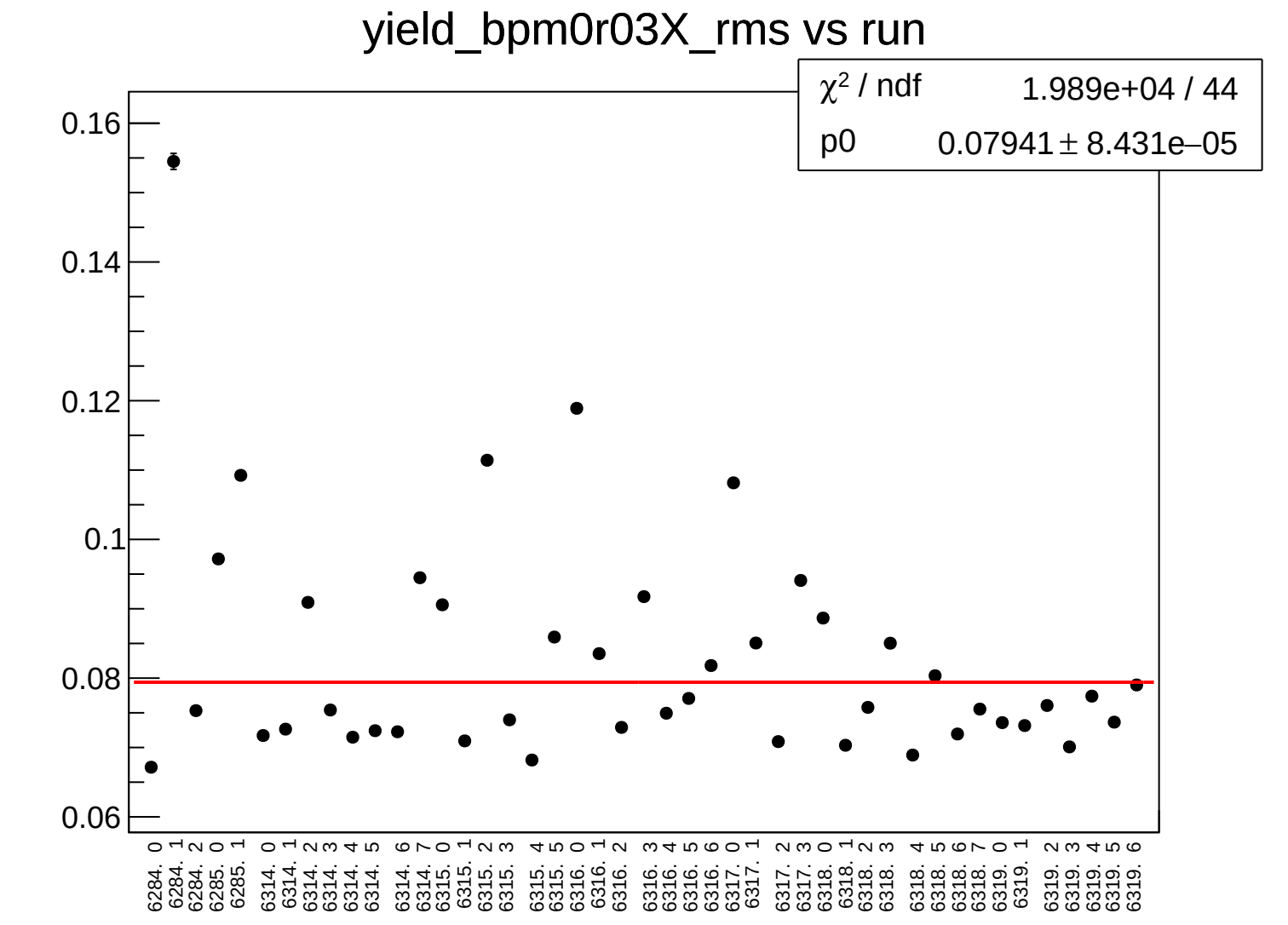
6319. 5
6319. 6


yield_bpm0l10Y_mean vs run
χ² / ndf 1.961e+07 / 44
p0 −0.19 ± 8.913e−06
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −85.53
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 45
Mean −2.693
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l10Y_rms vs run
χ² / ndf 2.397e+05 / 44
p0 0.005149 ± 6.302e−06
0.025
0.02
0.015
0.01
0.005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0r03X_mean vs run
χ² / ndf 4.373e+07 / 44
p0 −1.443 ± 0.0001192
pull
Entries 45
Mean −263
Std Dev 0


pull1D
Entries 45
Mean 0
Std Dev 0


yield_bpm0r03X_rms vs run
χ² / ndf 1.989e+04 / 44
p0 0.07941 ± 8.431e–05
0.16
0.14
0.12
0.1
0.08
0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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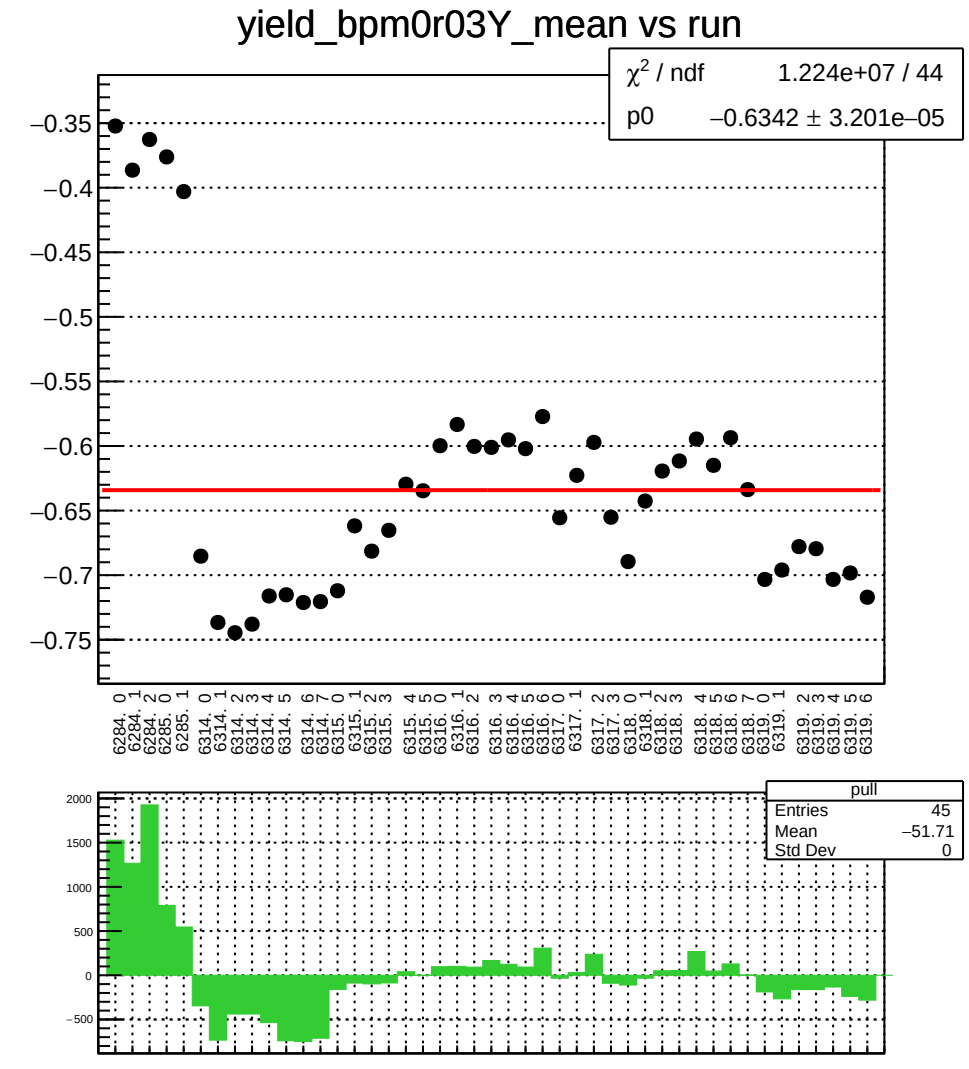
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0r03Y_mean vs run
χ² / ndf 1.224e+07 / 44
p0 −0.6342 ± 3.201e−05
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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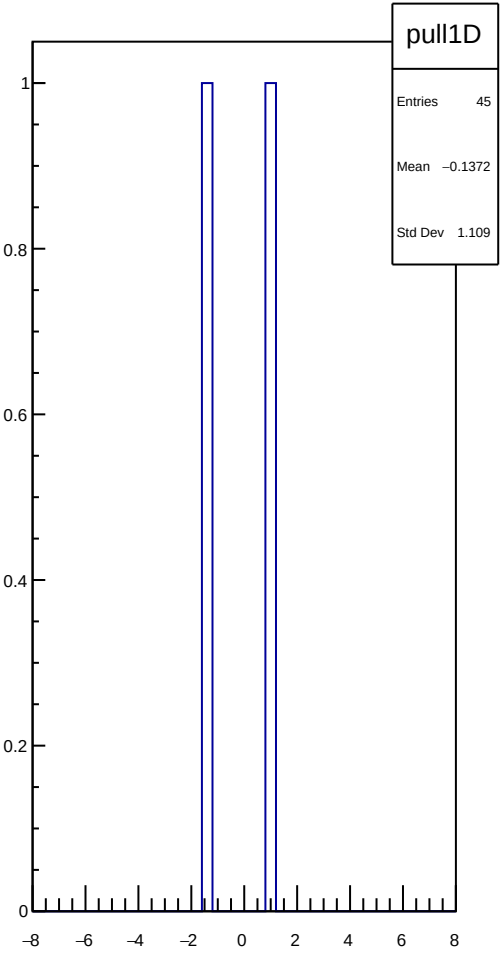
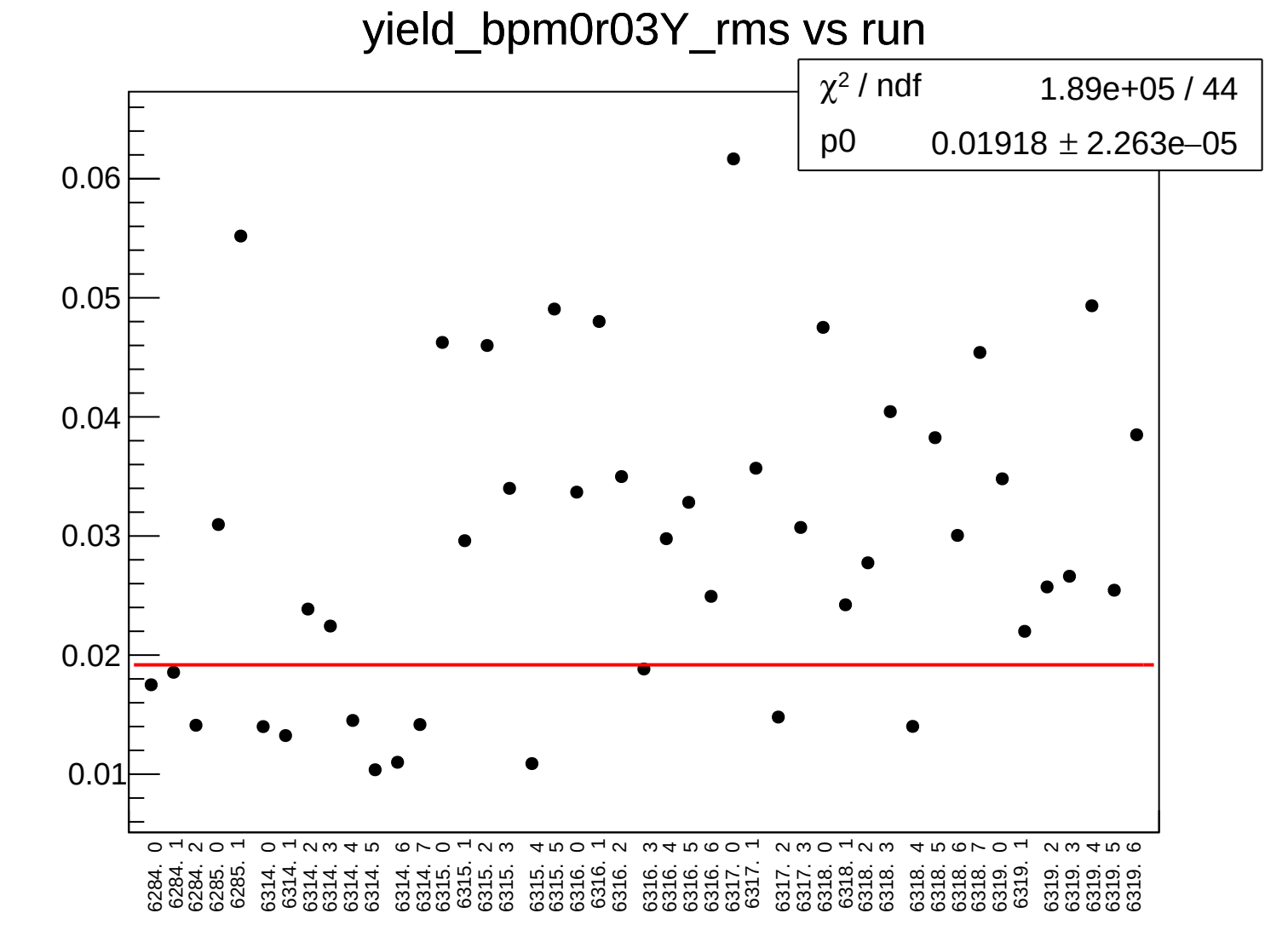
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −51.71
Std Dev 0
2000
1500
1000
500
0
−500


pull1D
Entries 45
Mean −0.1372
Std Dev 1.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0r03Y_rms vs run
χ² / ndf 1.89e+05 / 44
p0 0.01918 ± 2.263e−05
0.06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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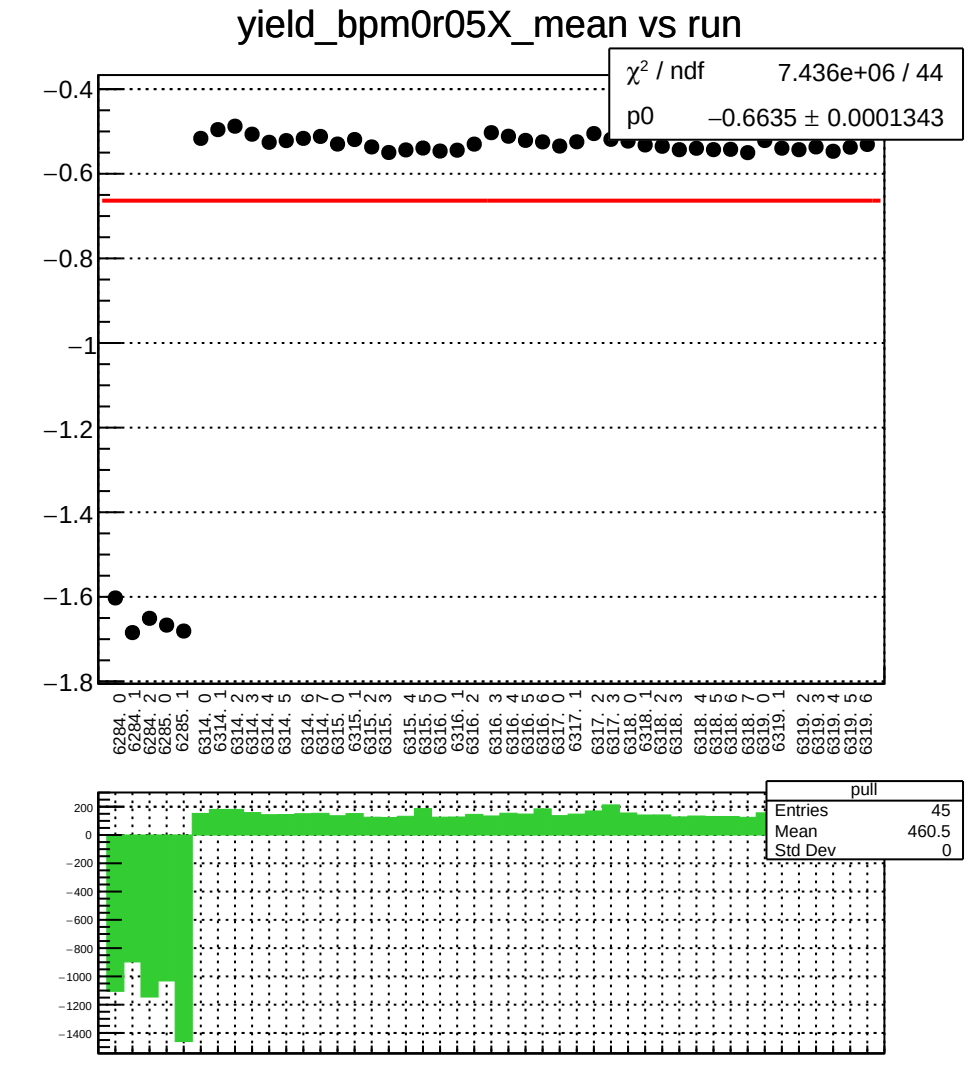
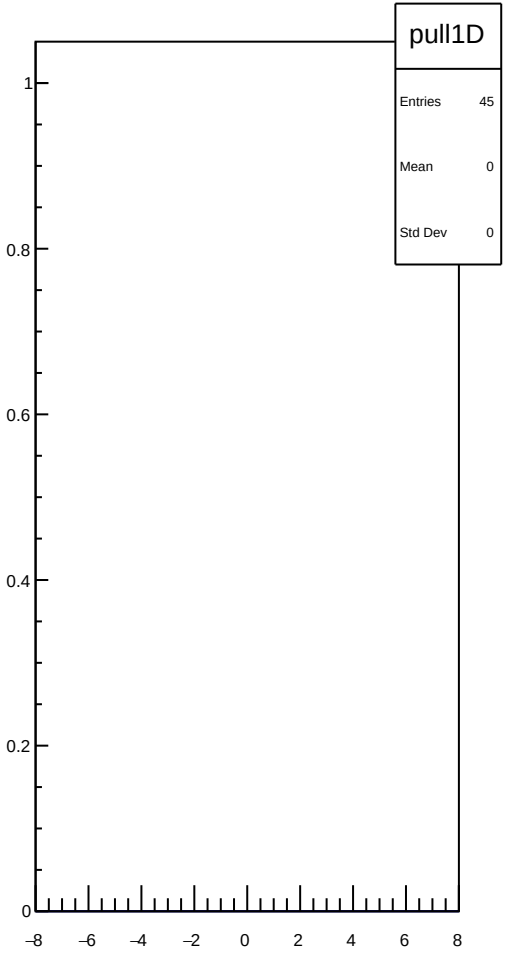
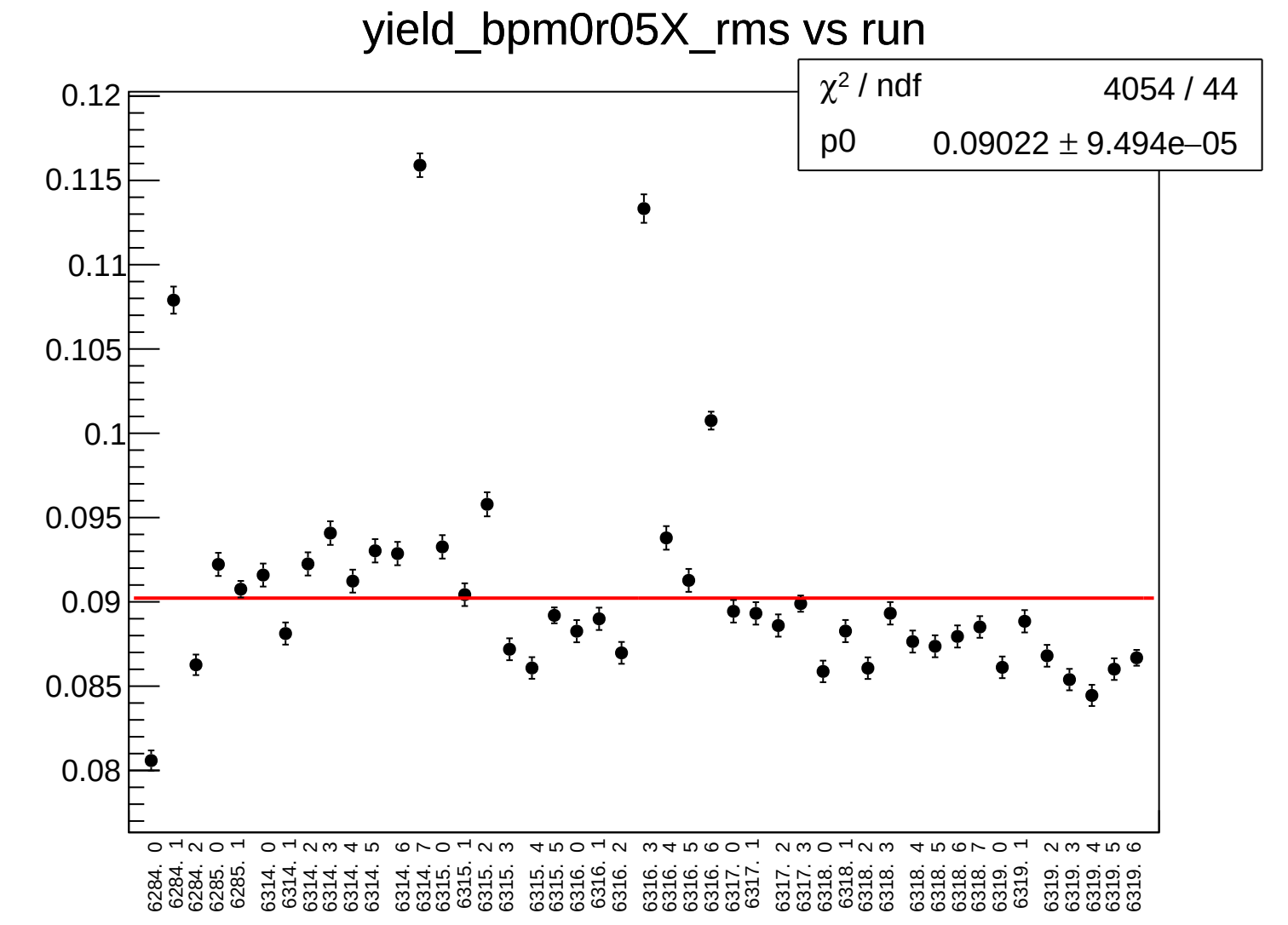
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_bpm0r05X_mean vs run
χ² / ndf 7.436e+06 / 44
p0 −0.6635 ± 0.0001343
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 460.5
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0r05X_rms vs run
χ² / ndf 4054 / 44
p0 0.09022 ± 9.494e−05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
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6316. 1
6316. 2
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6317. 3
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6318. 1
6318. 2
6318. 3
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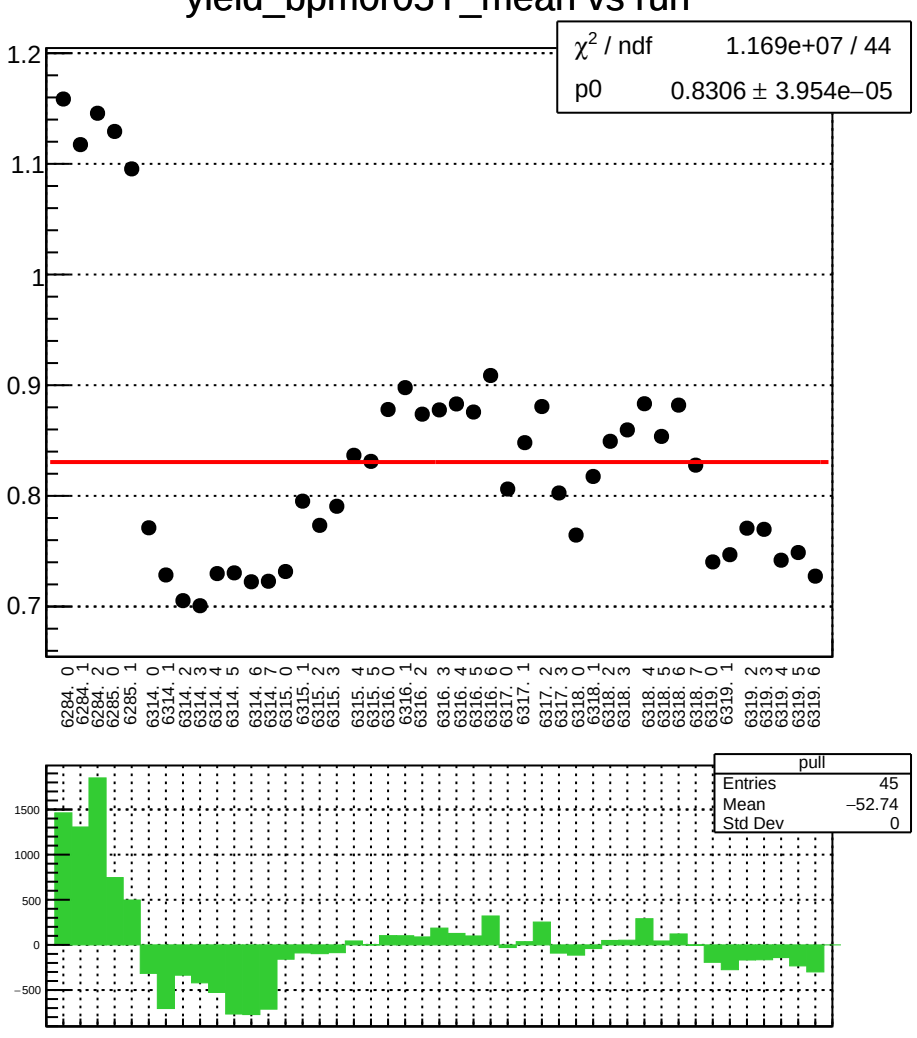
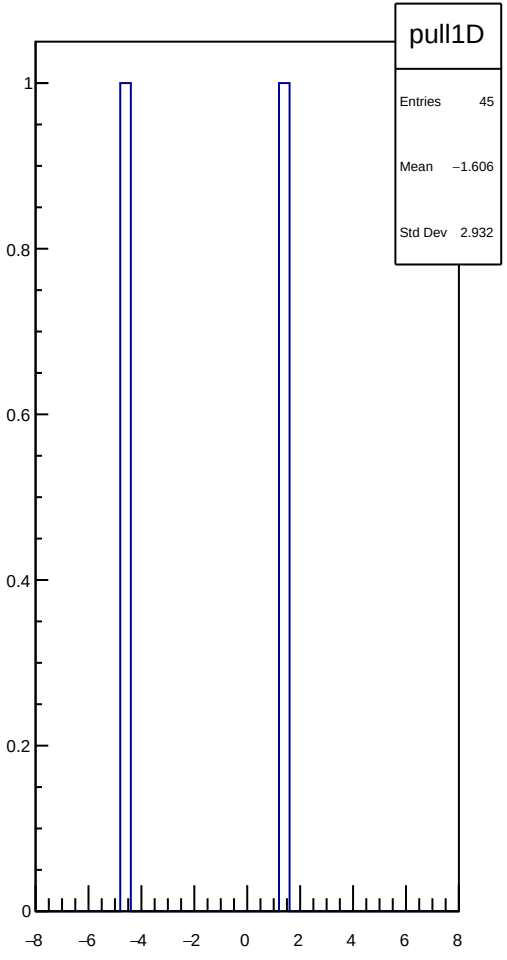
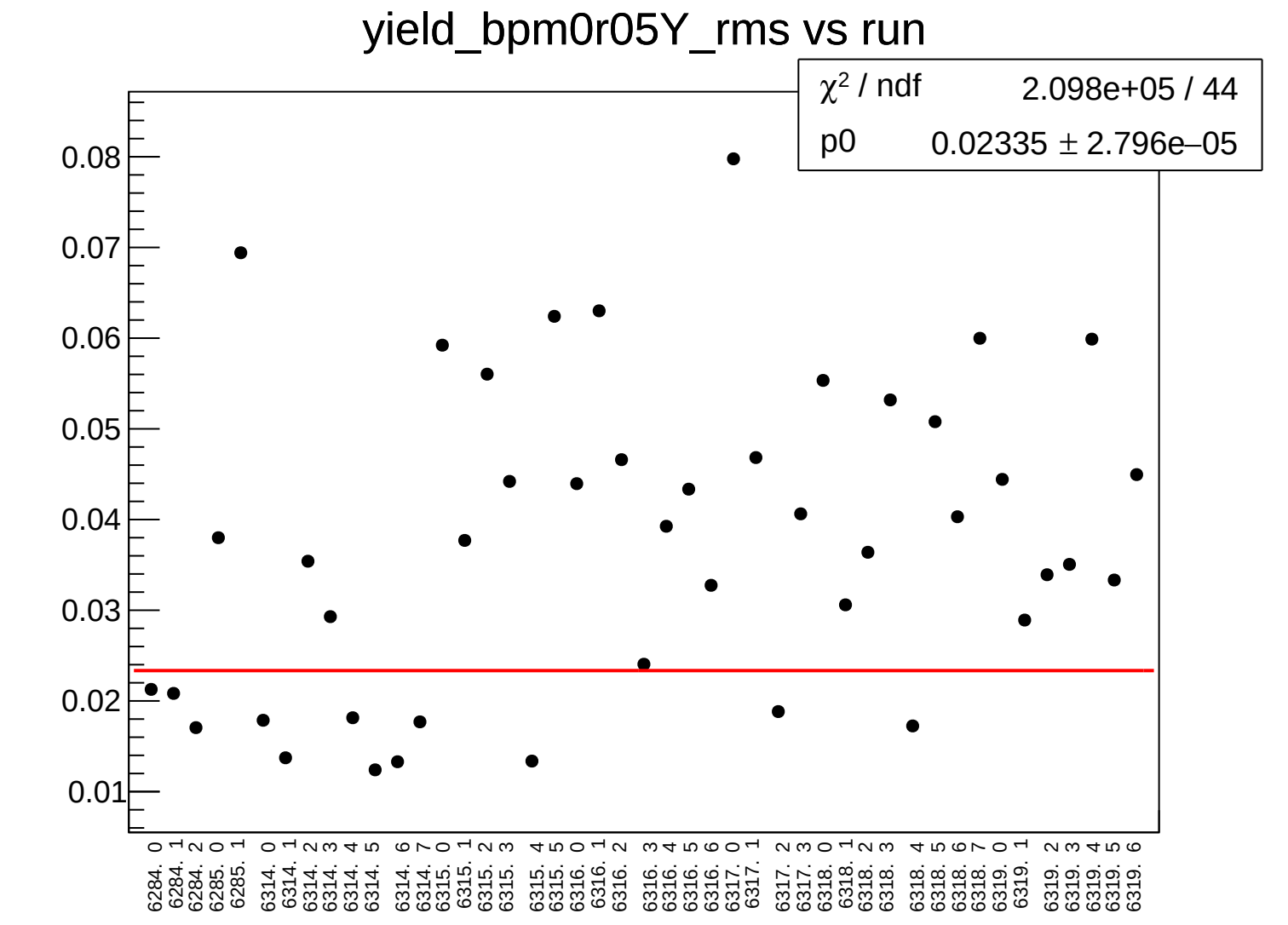
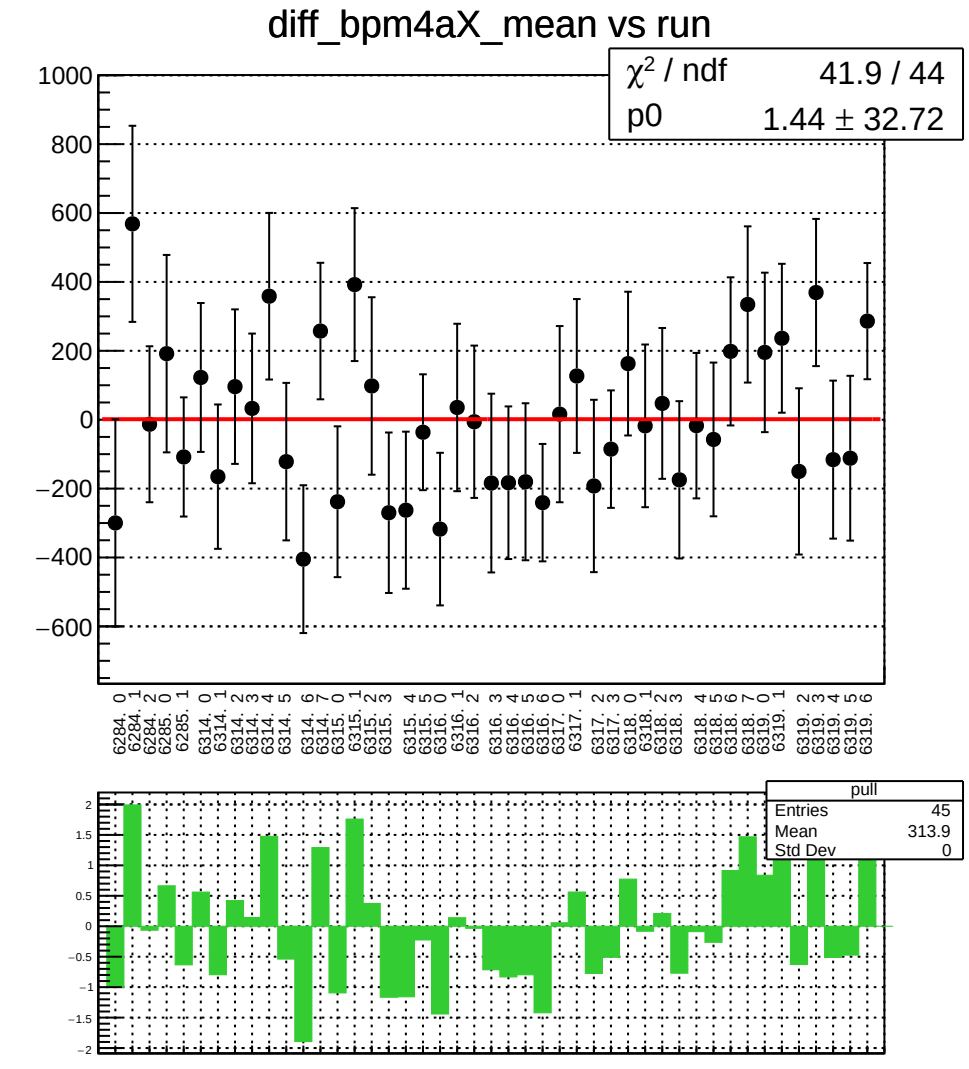
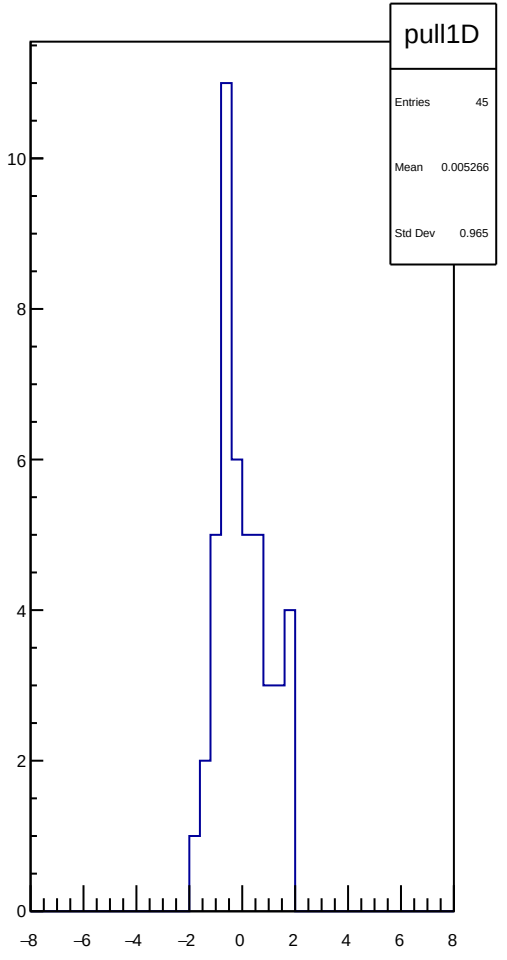
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

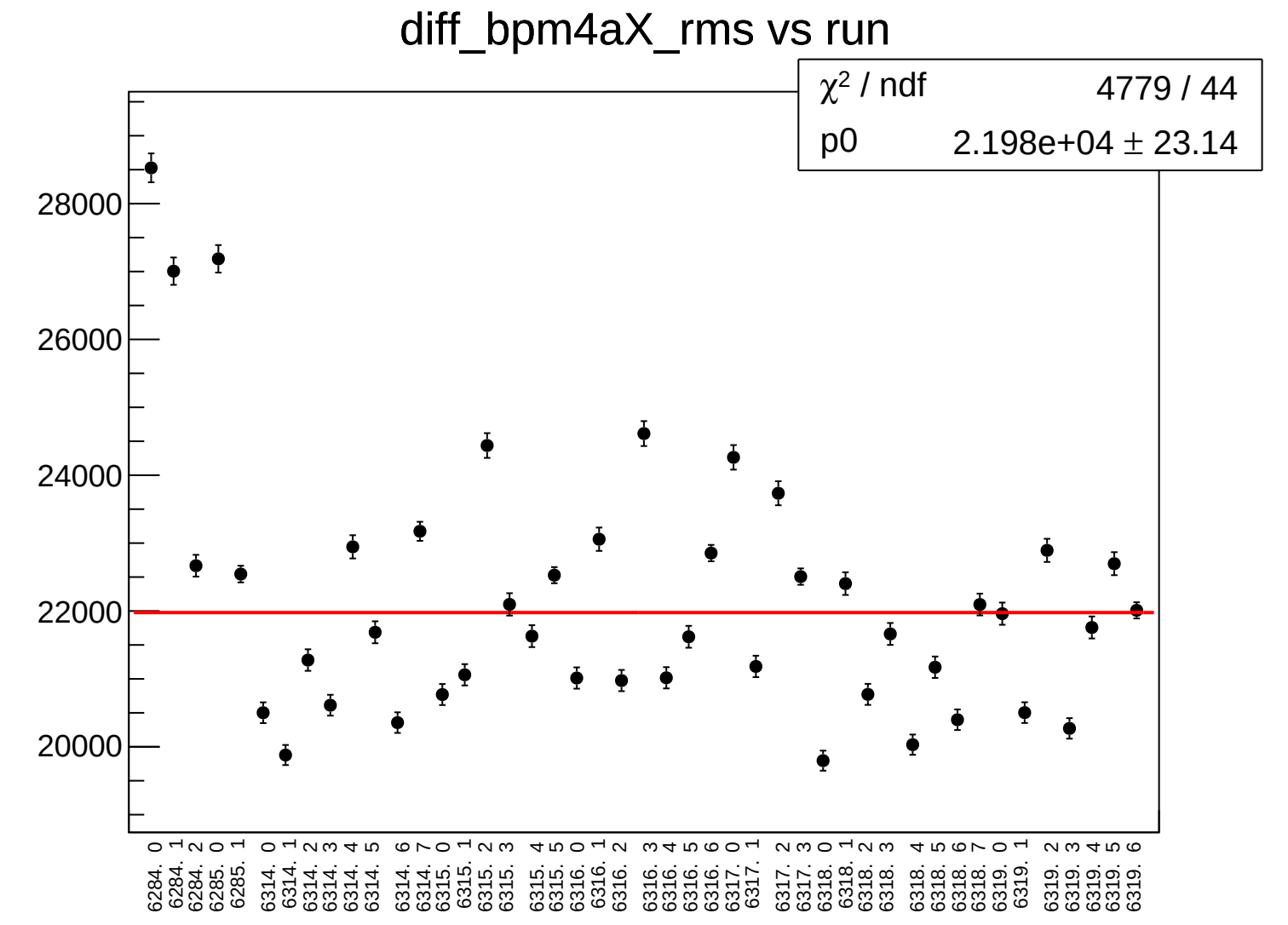

yield_bpm0r05Y_mean vs run
χ² / ndf 1.169e+07 / 44
p0 0.8306 ± 3.954e−05
pull
Entries 45
Mean −52.74
Std Dev 0

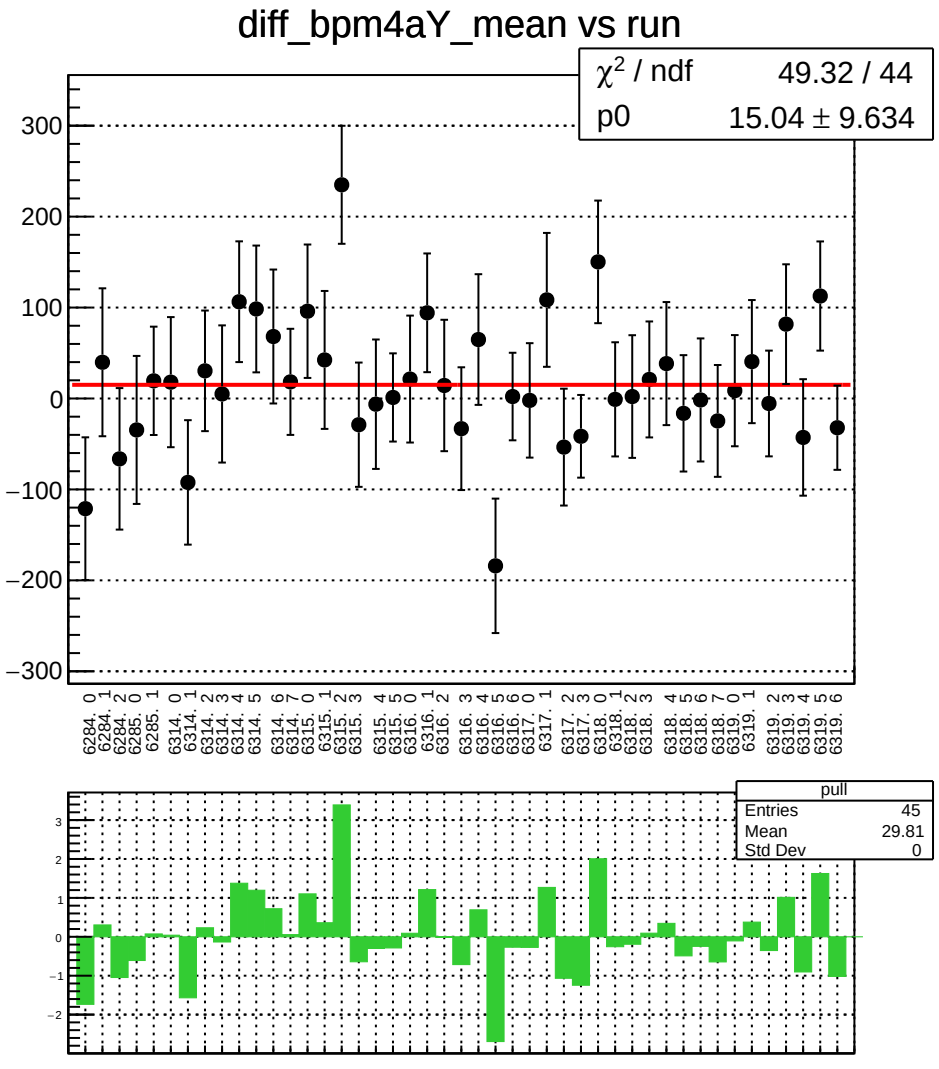

pull1D
Entries 45
Mean −1.606
Std Dev 2.932

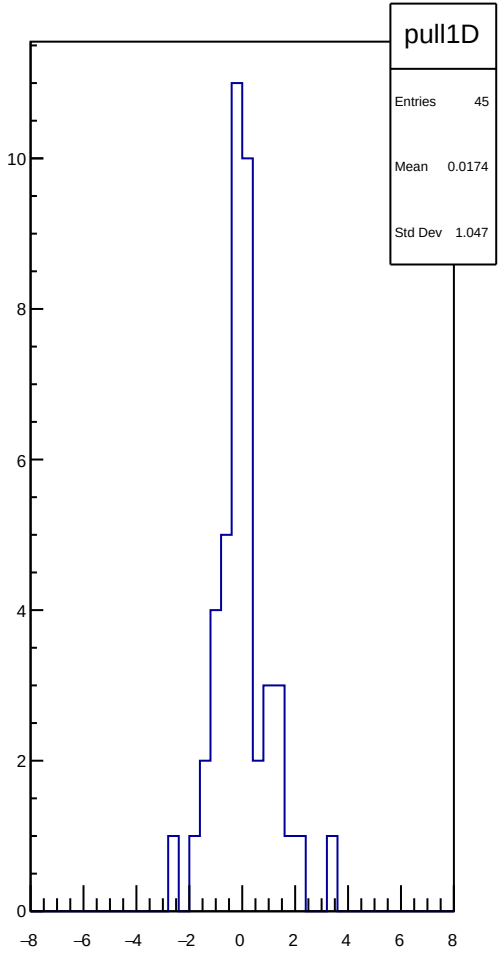

yield_bpm0r05Y_rms vs run
χ² / ndf 2.098e+05 / 44
p0 0.02335 ± 2.796e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

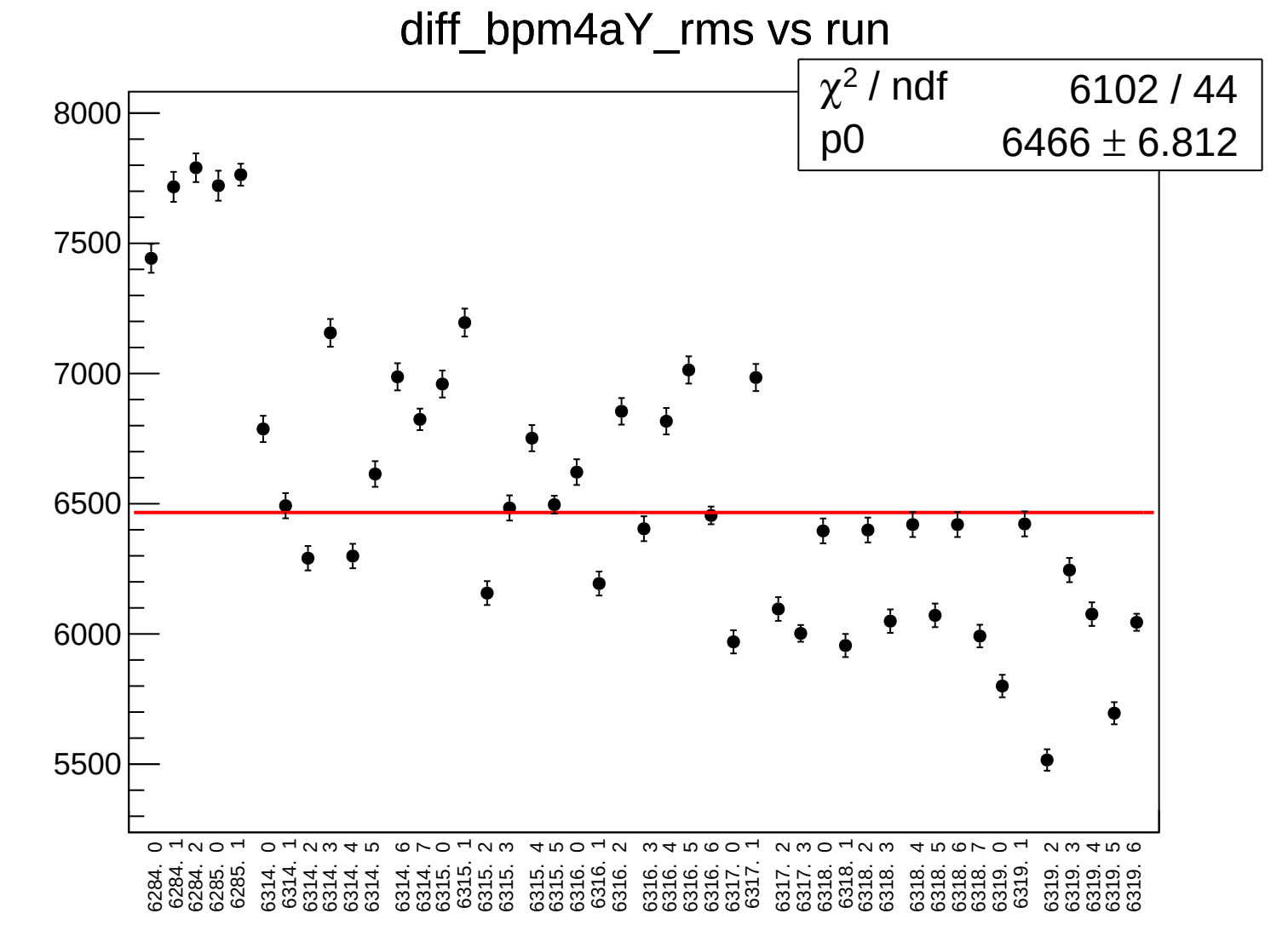

diff_bpm4aX_mean vs run
χ² / ndf 41.9 / 44
p0 1.44 ± 32.72
1000
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 313.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

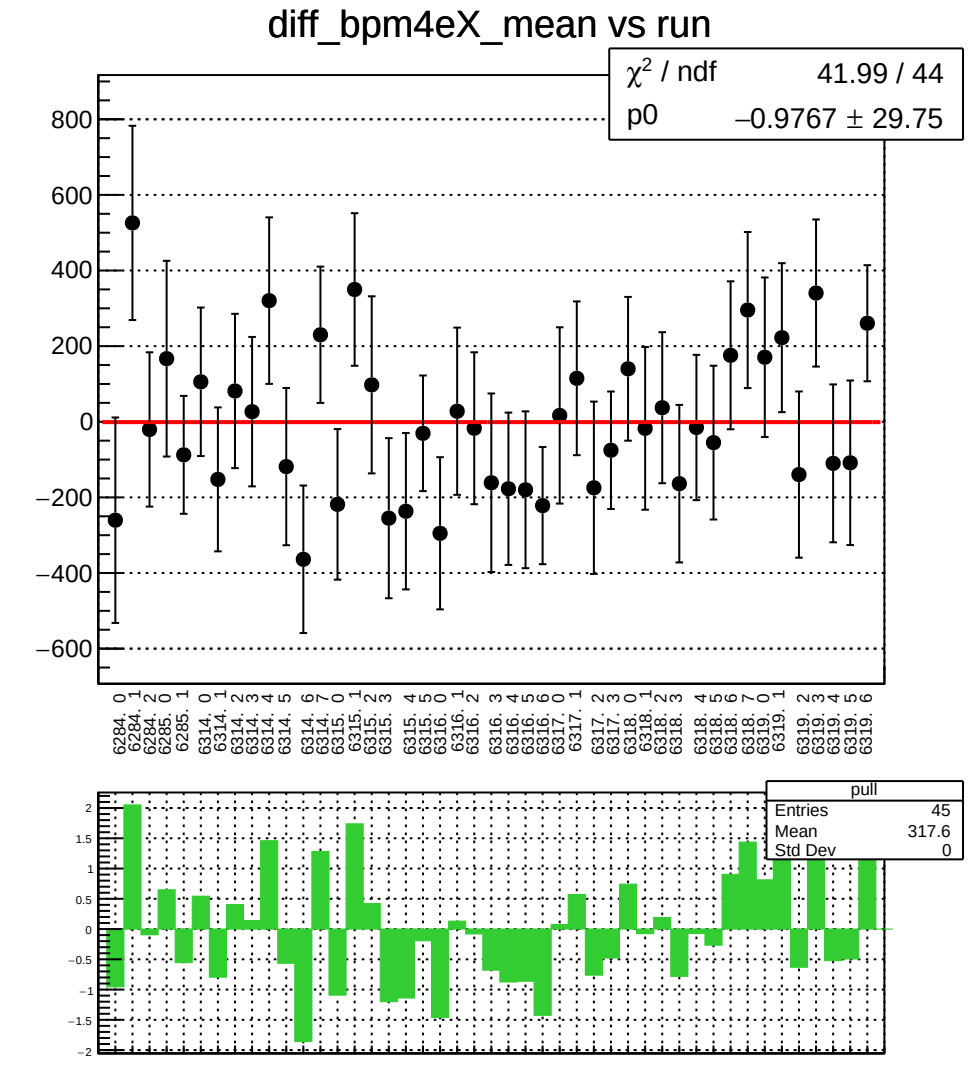

pull1D
Entries 45
Mean 0.005266
Std Dev 0.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

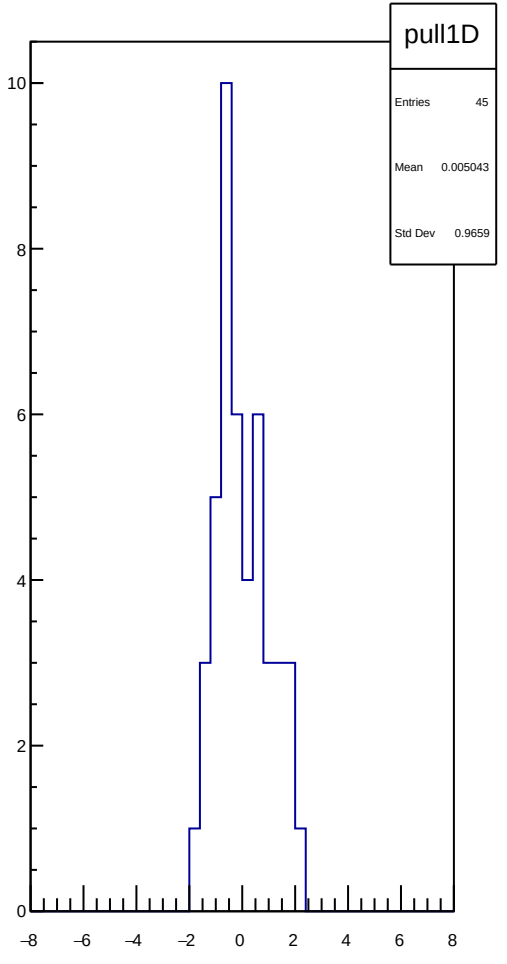

diff_bpm4aX_rms vs run
χ² / ndf 4779 / 44
p0 2.198e+04 ± 23.14
28000
26000
24000
22000
20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm4aY_mean vs run
χ² / ndf 49.32 / 44
p0 15.04 ± 9.634
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.81
Std Dev 0
3
2
1
0
−1
−2

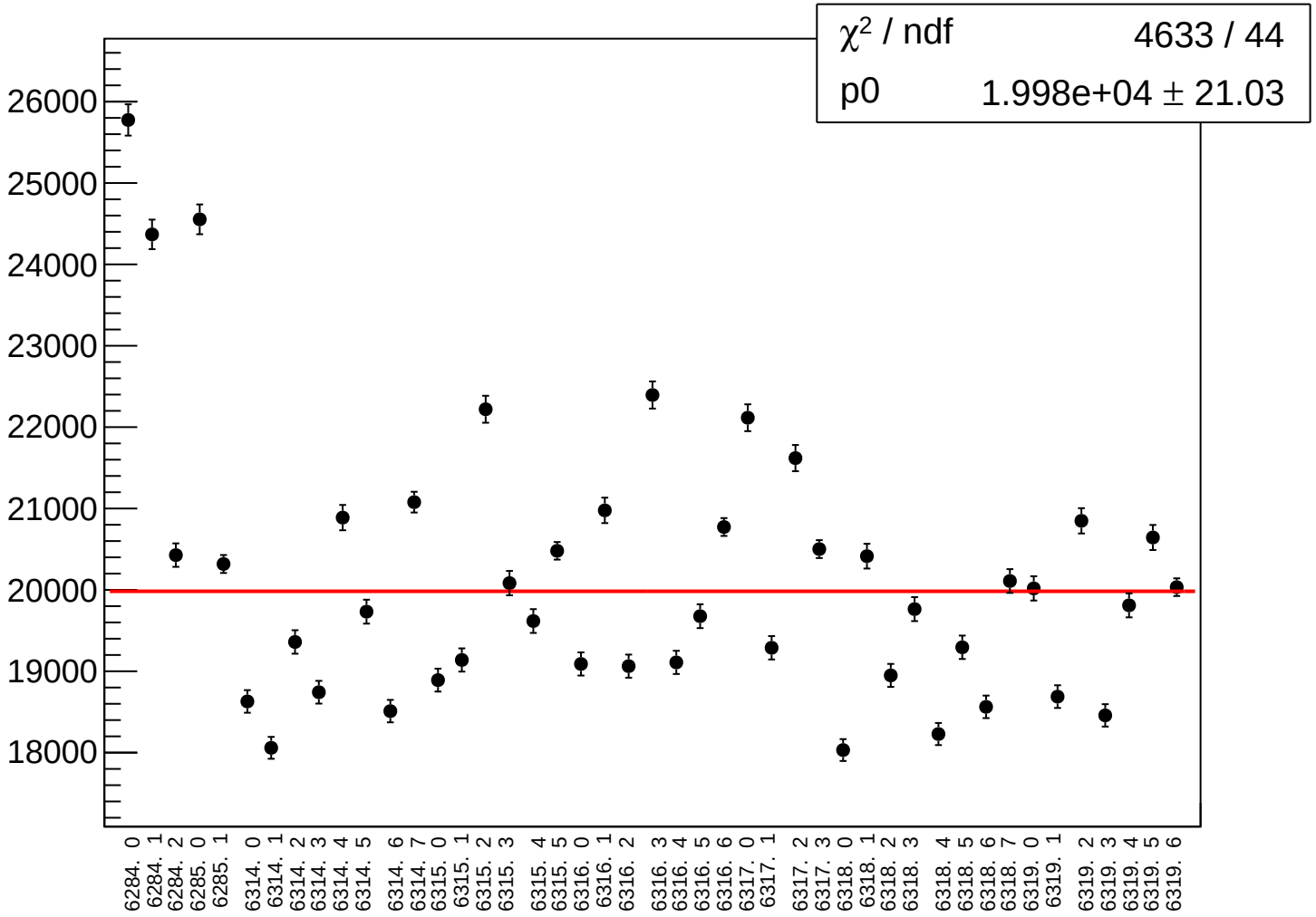

pull1D
Entries 45
Mean 0.0174
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

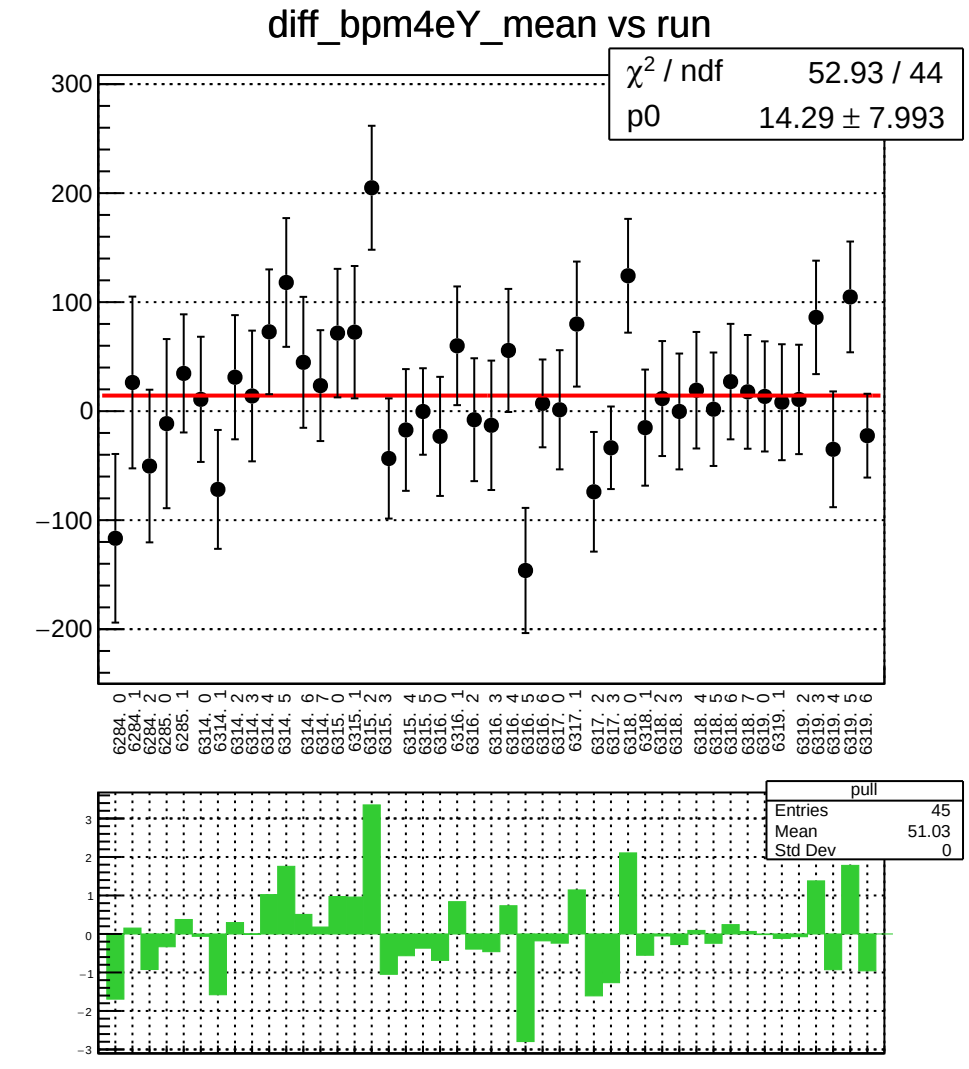

diff_bpm4aY_rms vs run
χ² / ndf 6102 / 44
p0 6466 ± 6.812
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

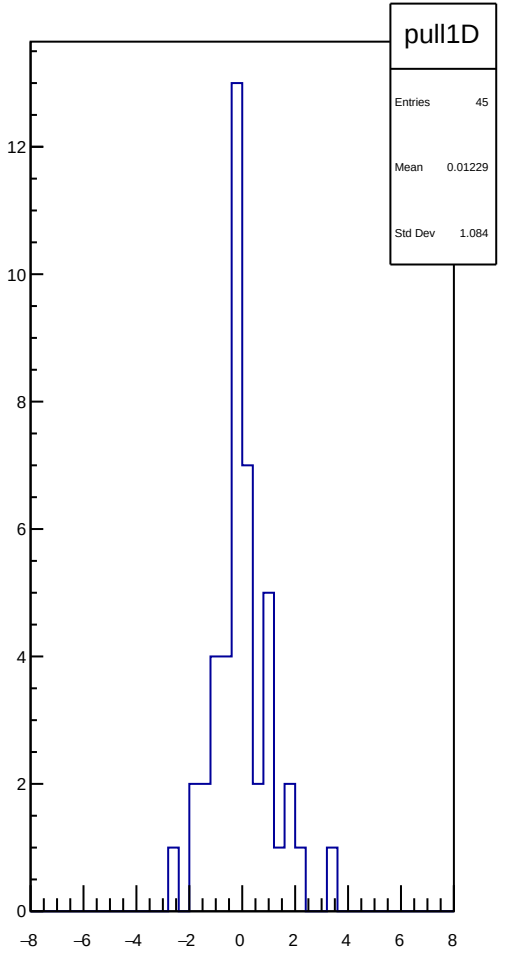

diff_bpm4eX_mean vs run
χ² / ndf 41.99 / 44
p0 –0.9767 ± 29.75
pull
Entries 45
Mean 317.6
Std Dev 0

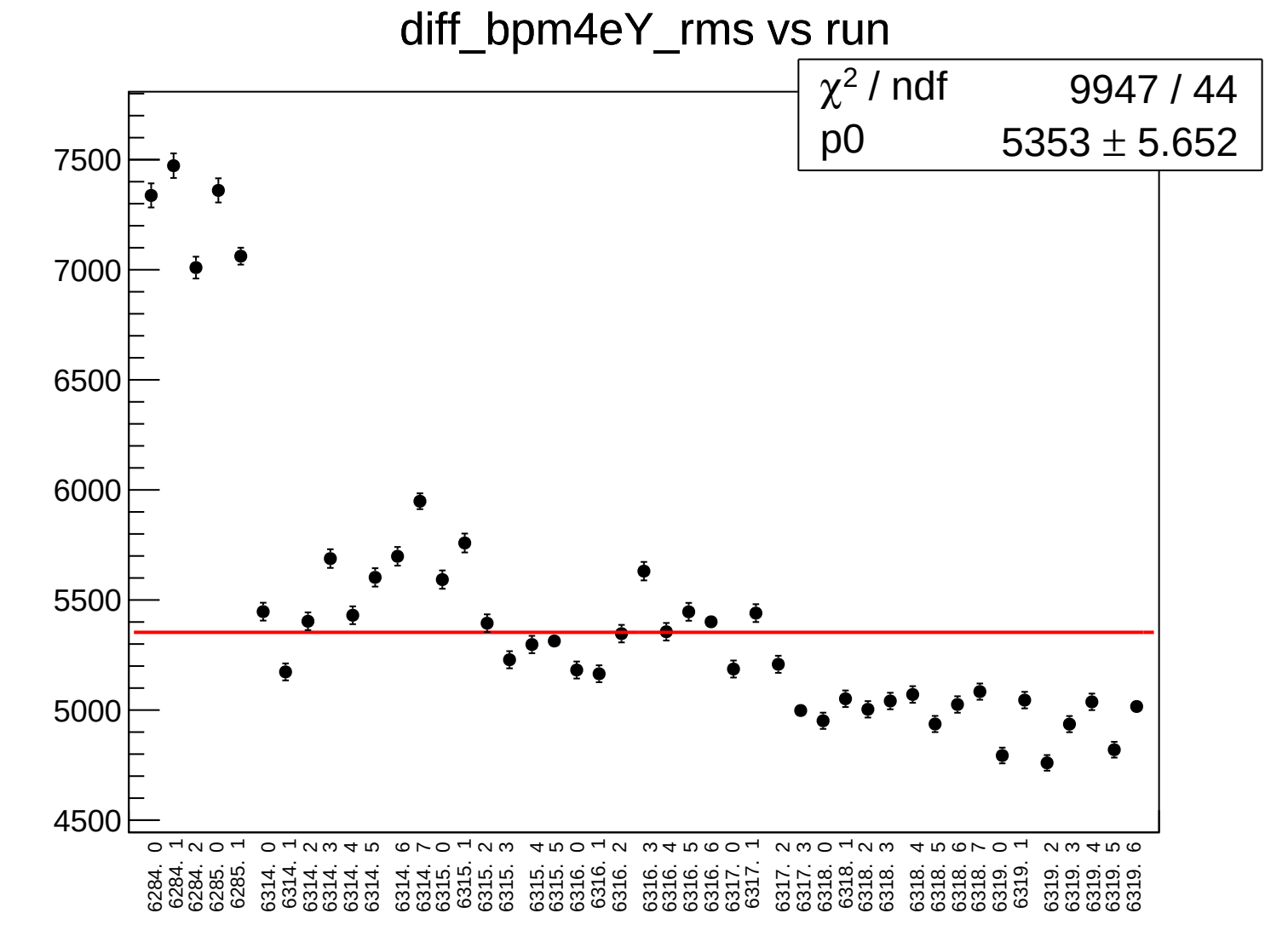

pull1D
Entries 45
Mean 0.005043
Std Dev 0.9659

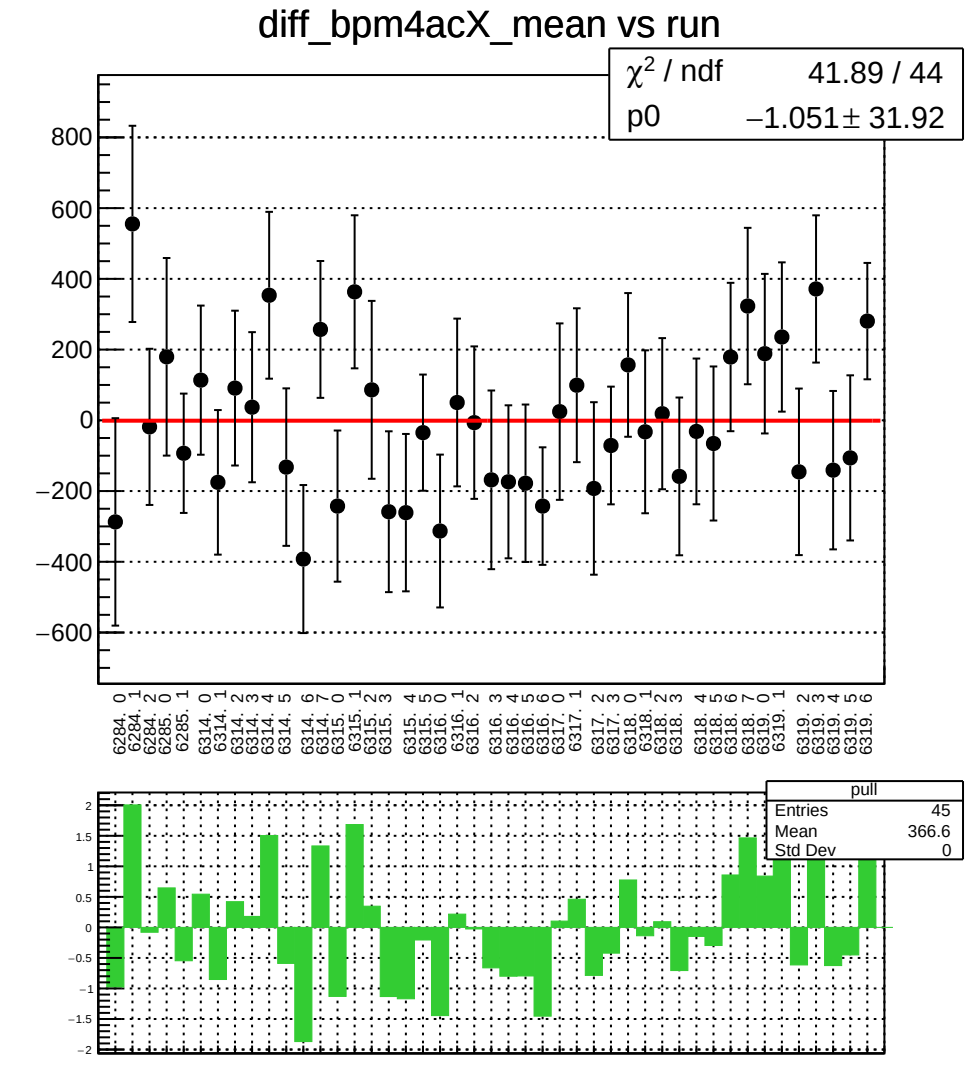
diff_bpm4eX_rms vs run

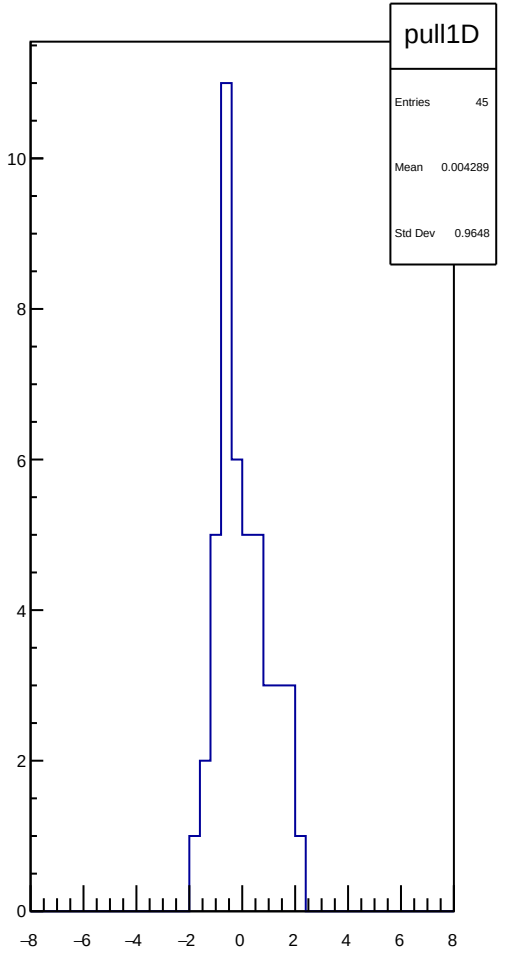


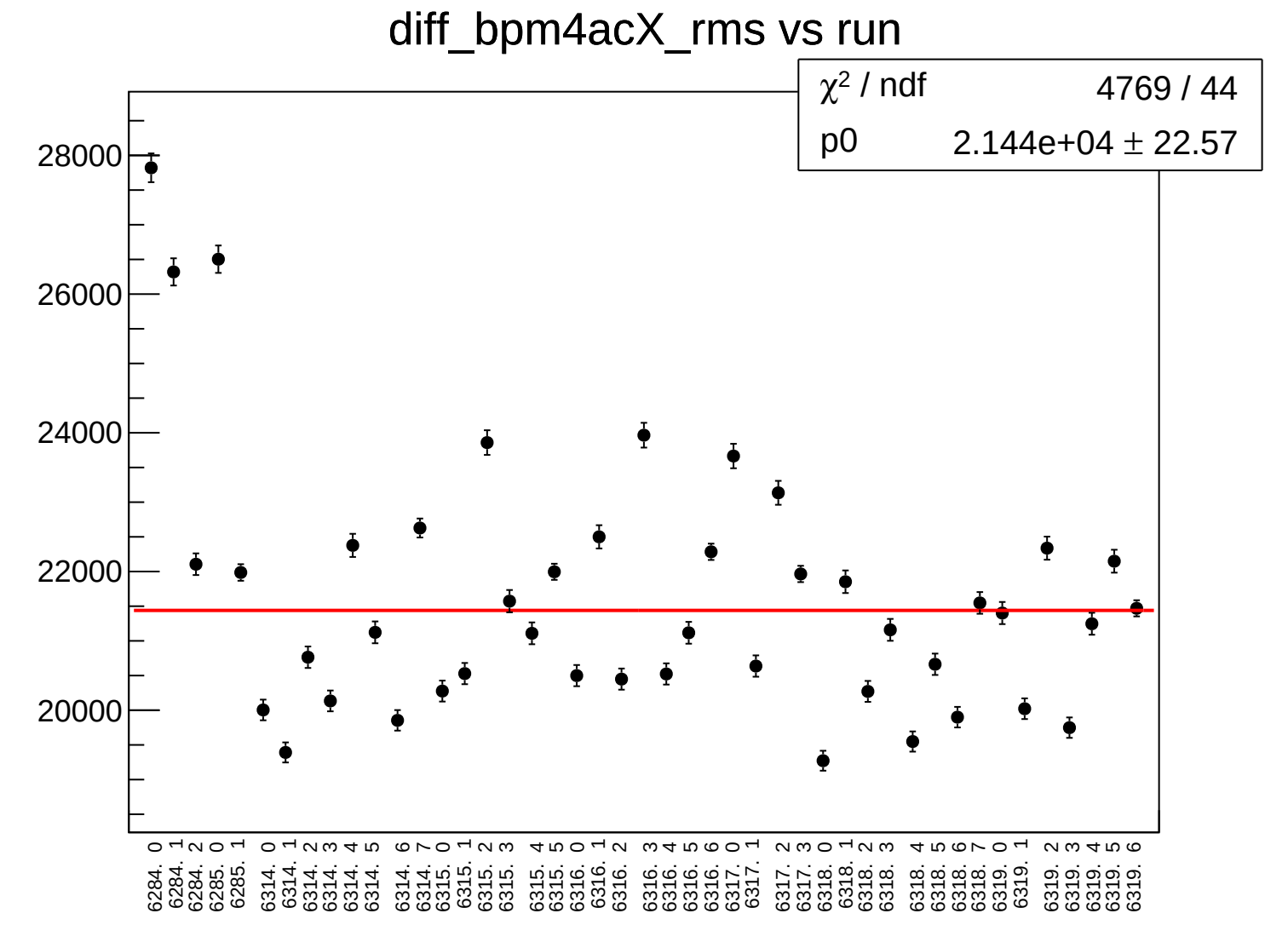

diff_bpm4eY_mean vs run
χ² / ndf 52.93 / 44
p0 14.29 ± 7.993
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 51.03
Std Dev 0
3
2
1
0
−1
−2
−3

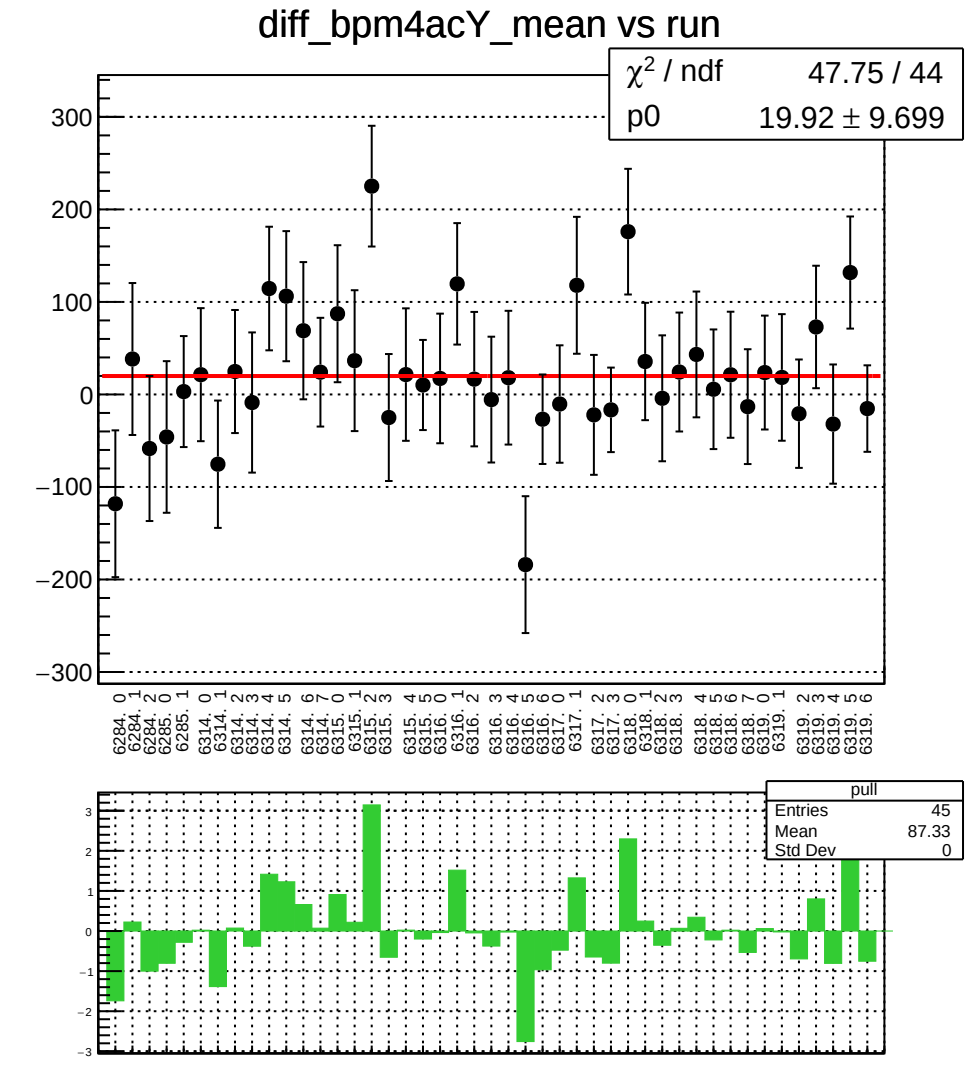

pull1D
Entries 45
Mean 0.01229
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

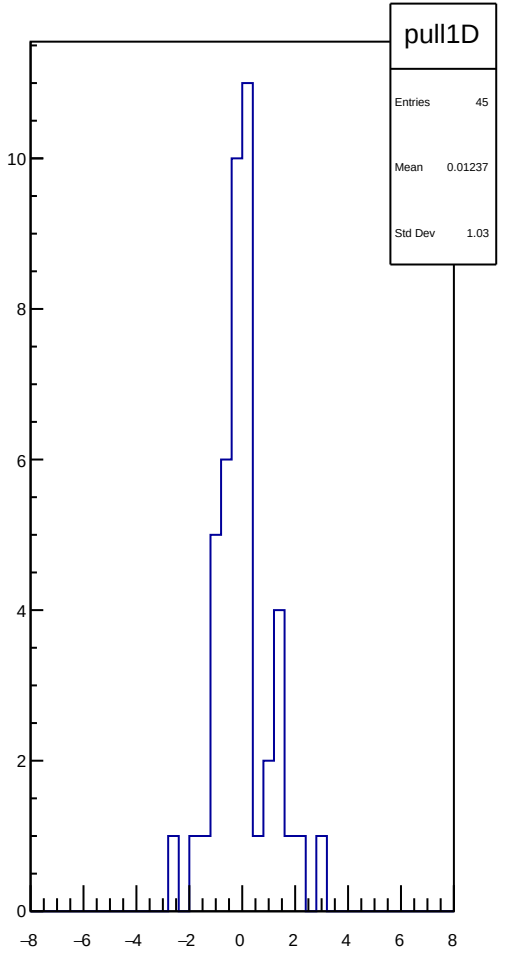

diff_bpm4eY_rms vs run
χ² / ndf 9947 / 44
p0 5353 ± 5.652
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

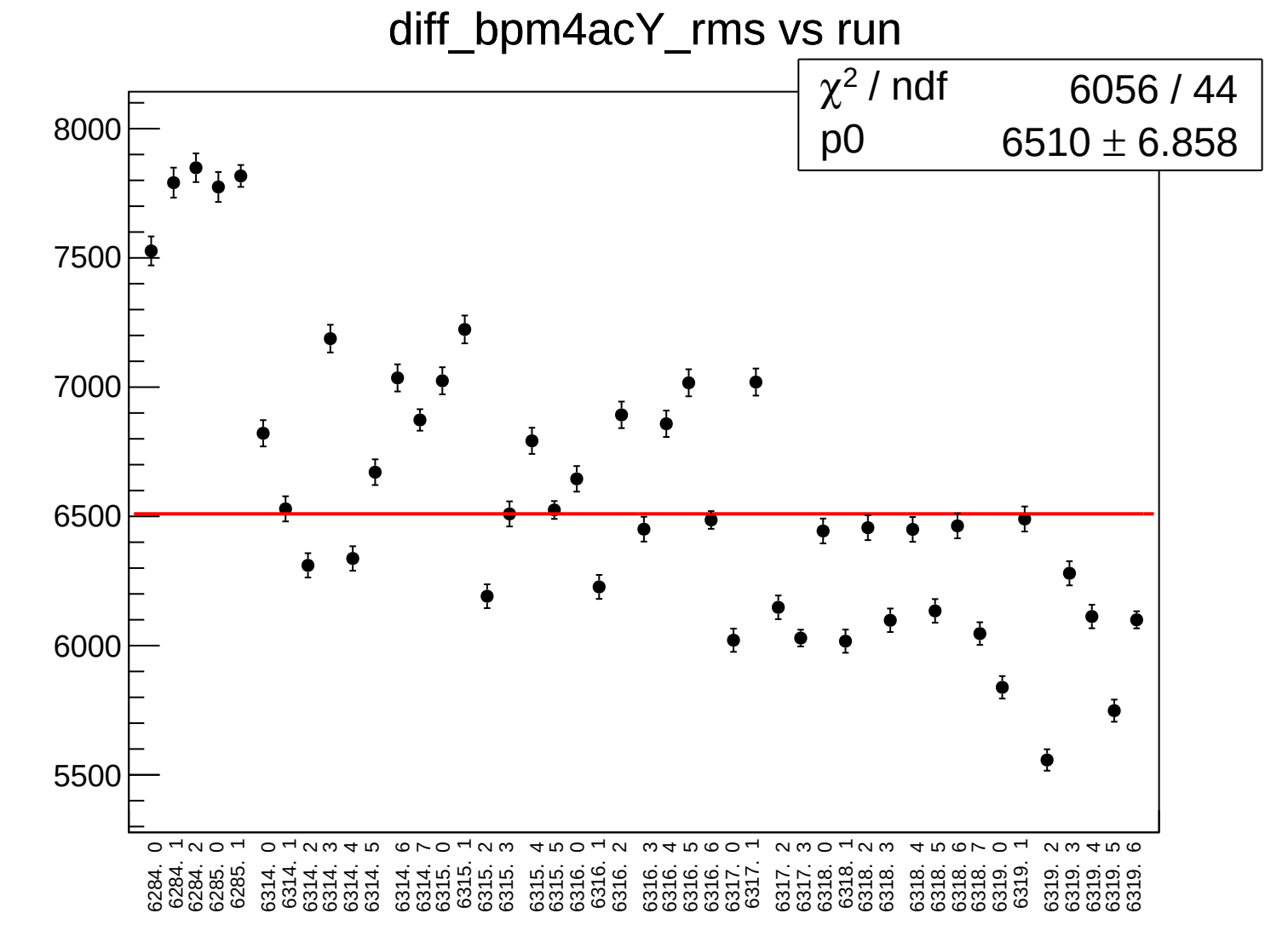

diff_bpm4acX_mean vs run
χ² / ndf 41.89 / 44
p0 −1.051± 31.92
800
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 366.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

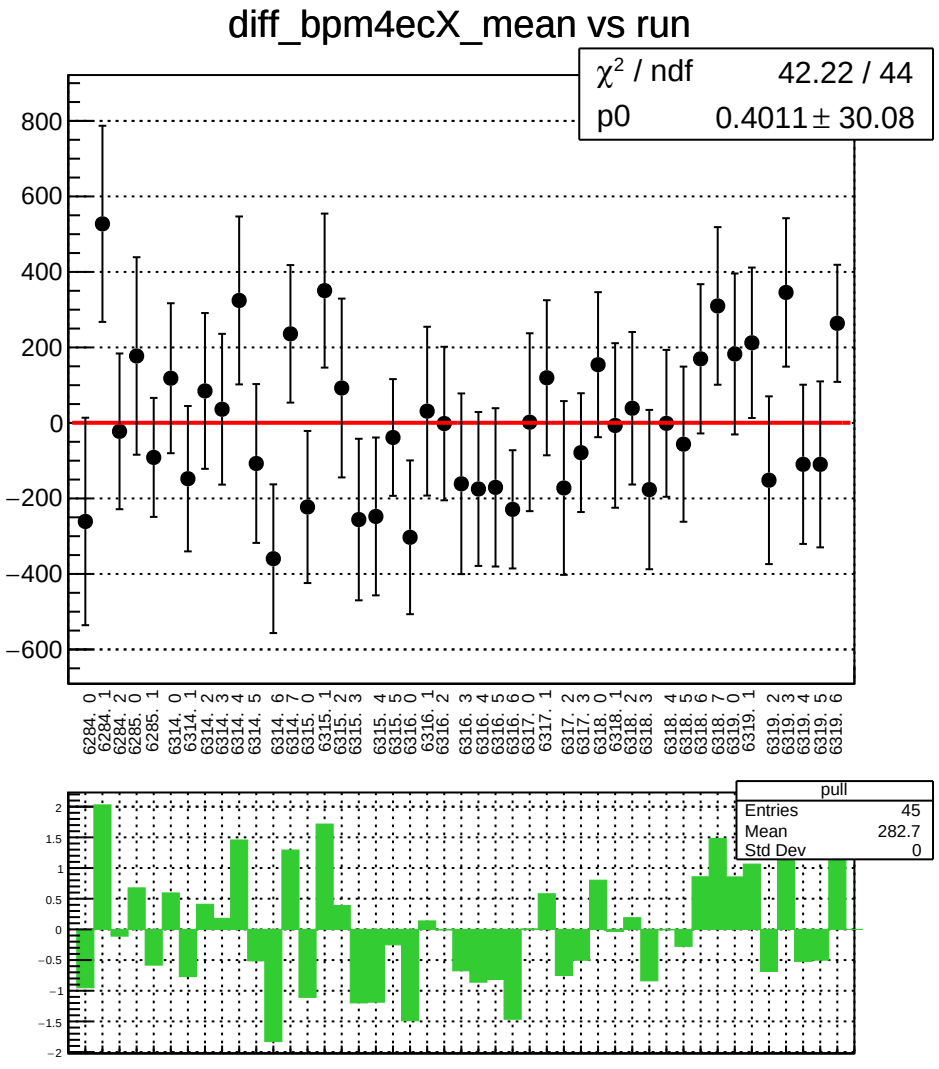

pull1D
Entries 45
Mean 0.004289
Std Dev 0.9648
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

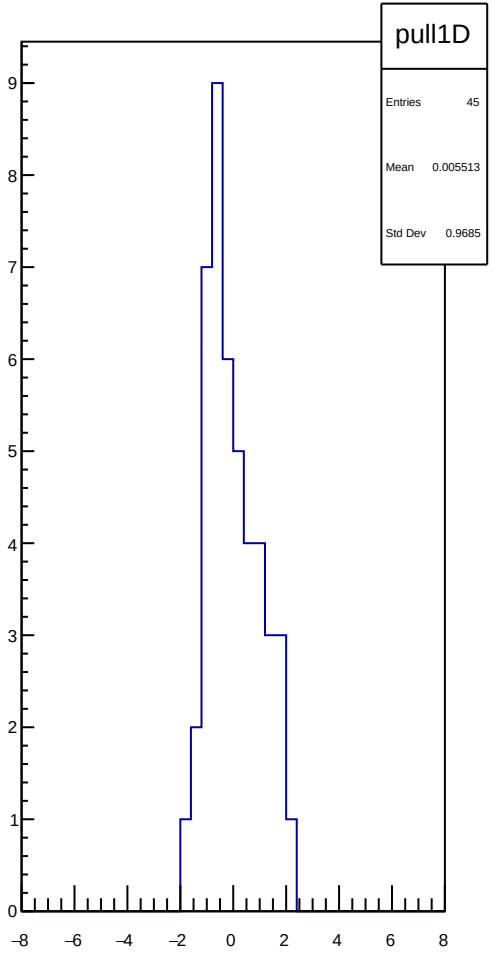

diff_bpm4acX_rms vs run
χ² / ndf 4769 / 44
p0 2.144e+04 ± 22.57
28000
26000
24000
22000
20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

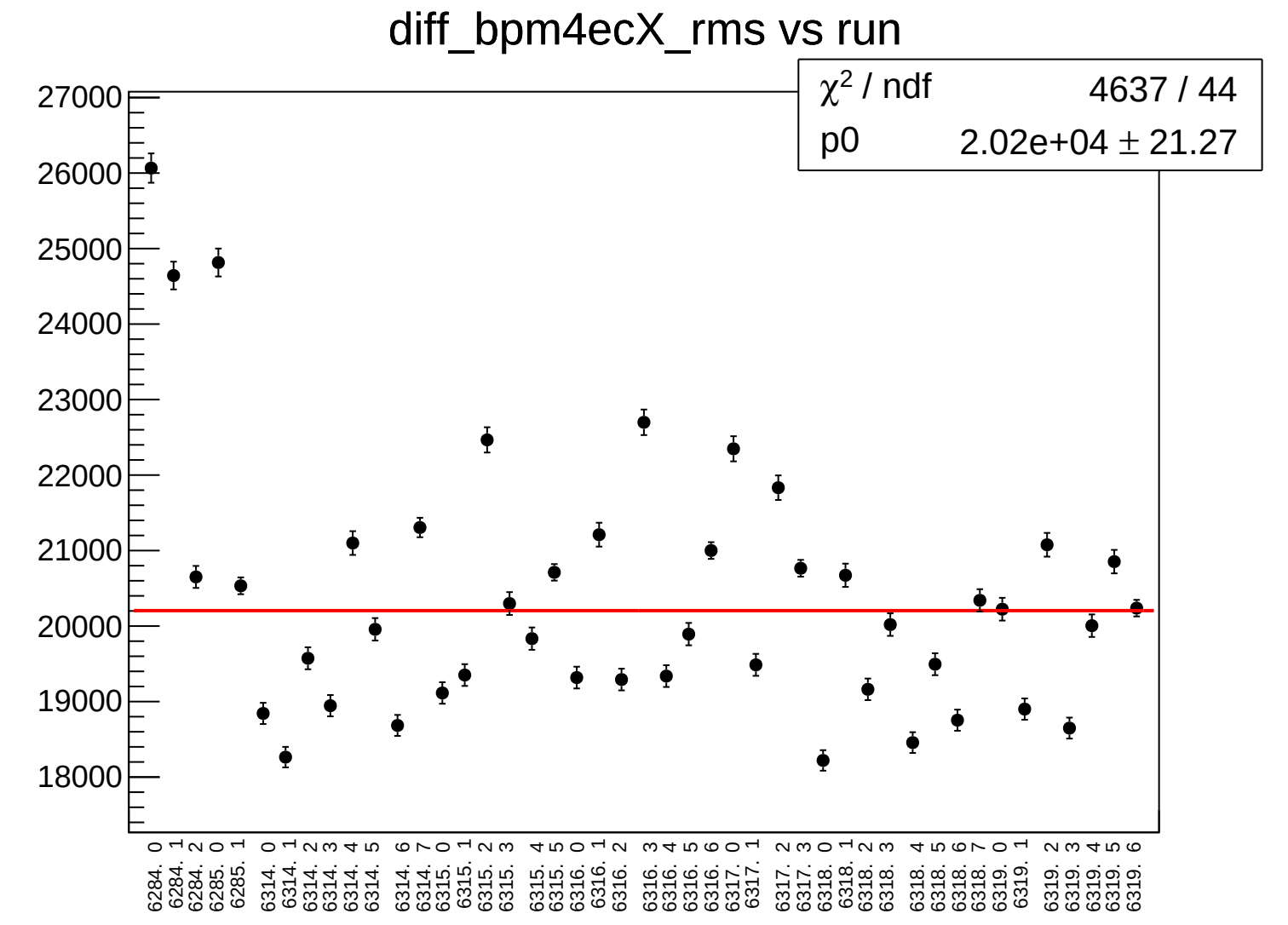

diff_bpm4acY_mean vs run
χ² / ndf 47.75 / 44
p0 19.92 ± 9.699
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 87.33
Std Dev 0
3
2
1
0
−1
−2
−3

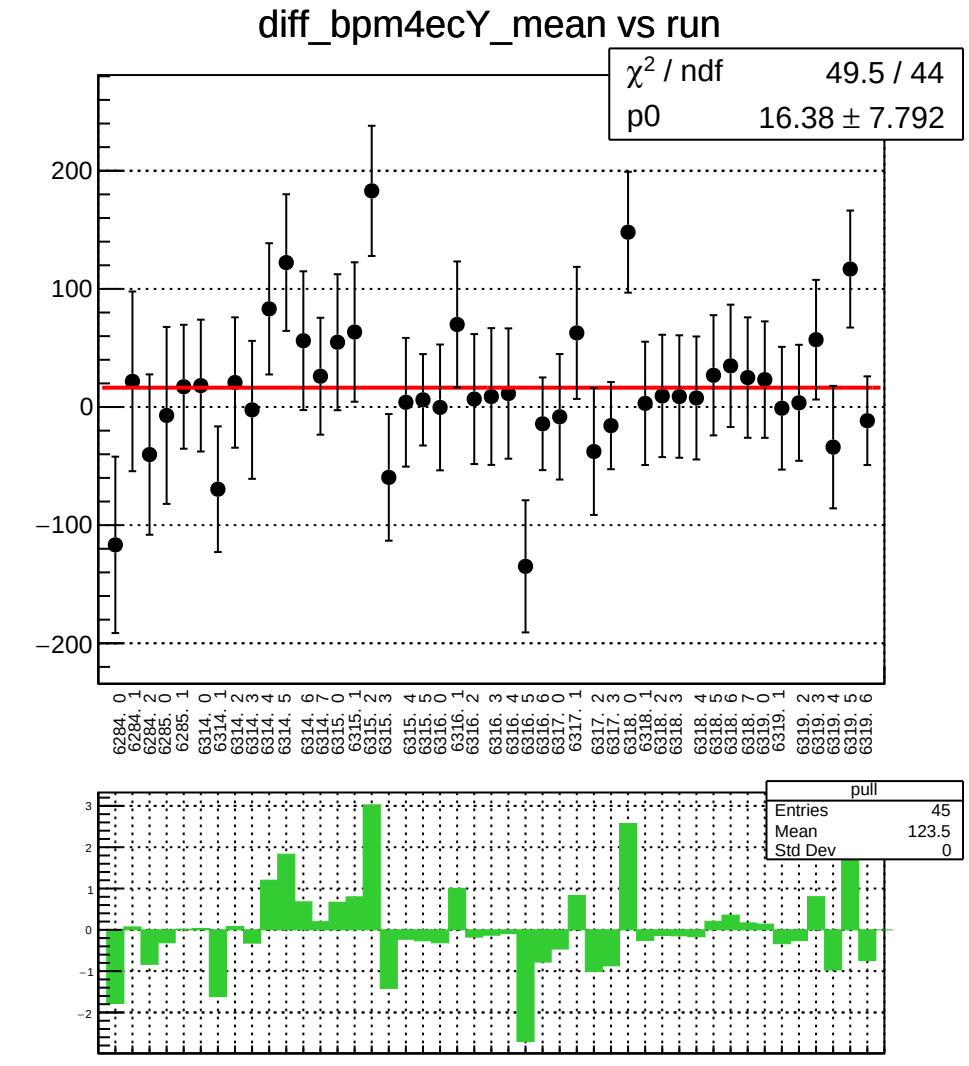

pull1D
Entries 45
Mean 0.01237
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

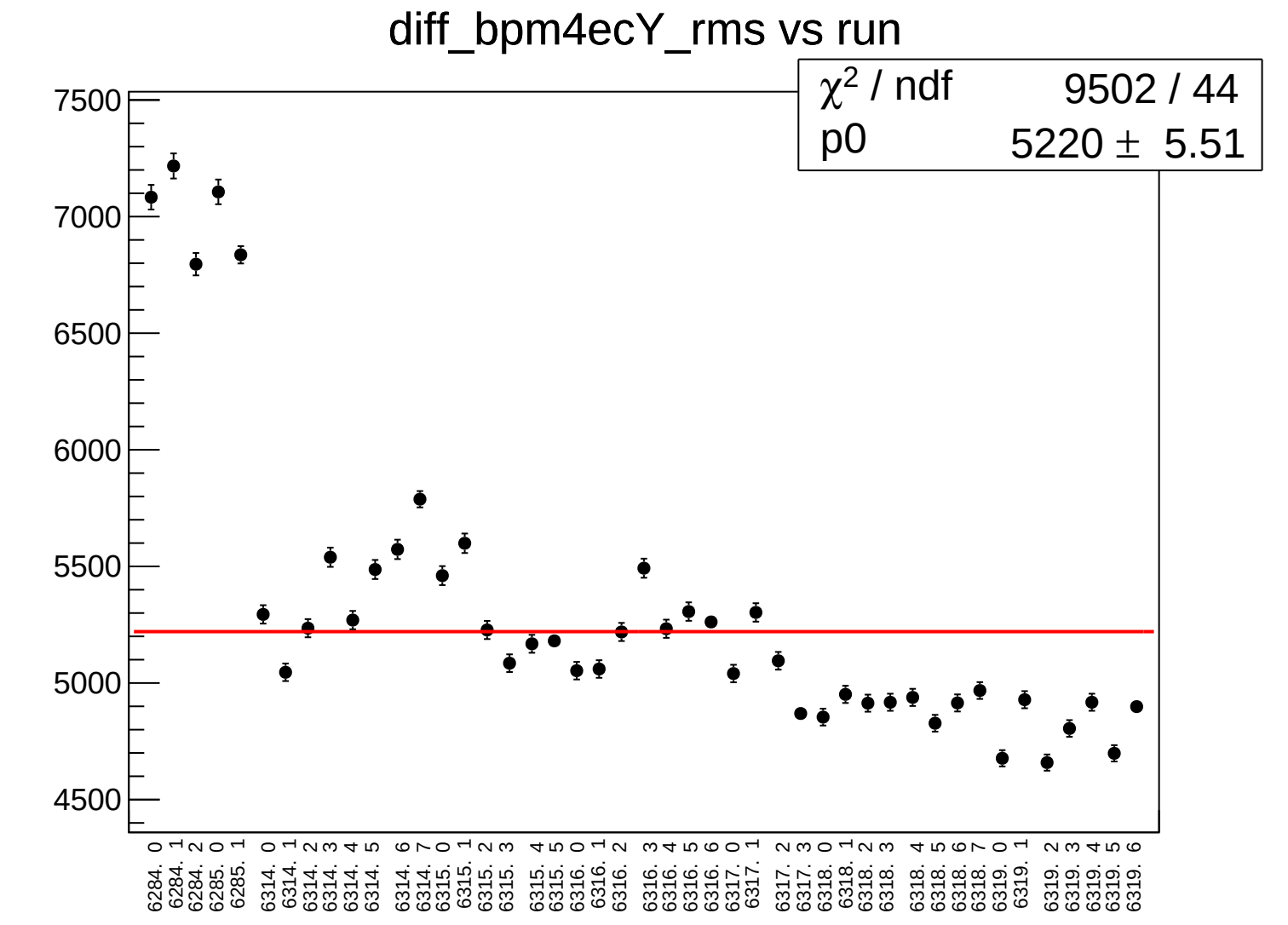

diff_bpm4acY_rms vs run
χ² / ndf 6056 / 44
p0 6510 ± 6.858
8000
7500
7000
6500
6000
5500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

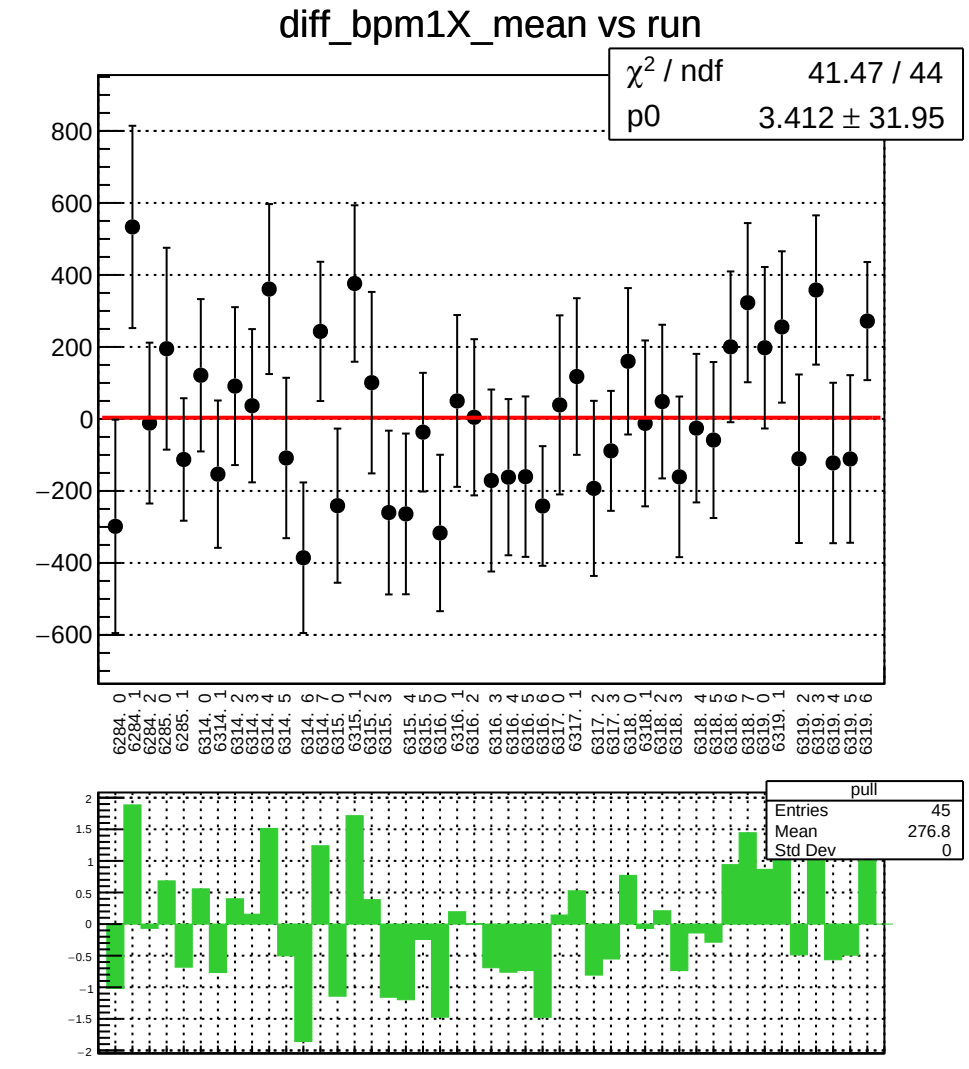

diff_bpm4ecX_mean vs run
χ² / ndf 42.22 / 44
p0 0.4011 ± 30.08
pull
Entries 45
Mean 282.7
Std Dev 0

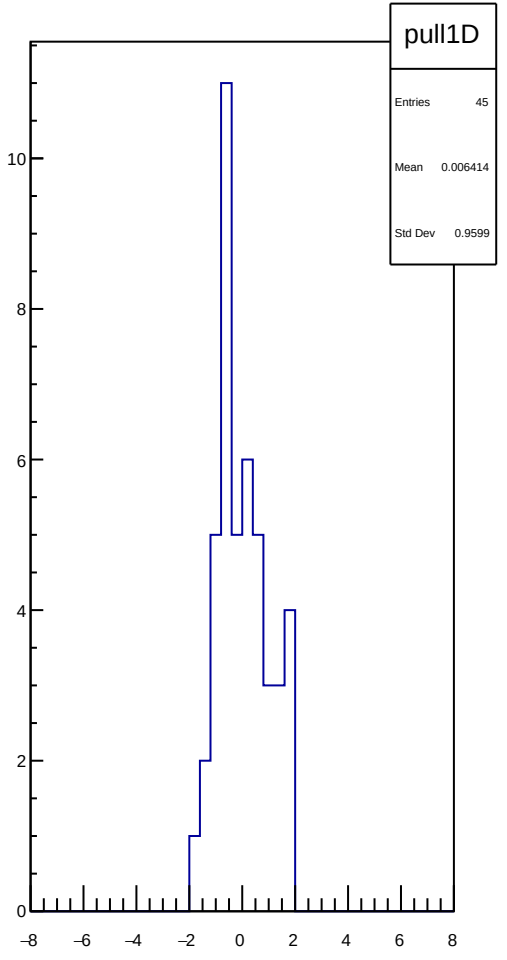

pull1D
Entries 45
Mean 0.005513
Std Dev 0.9685

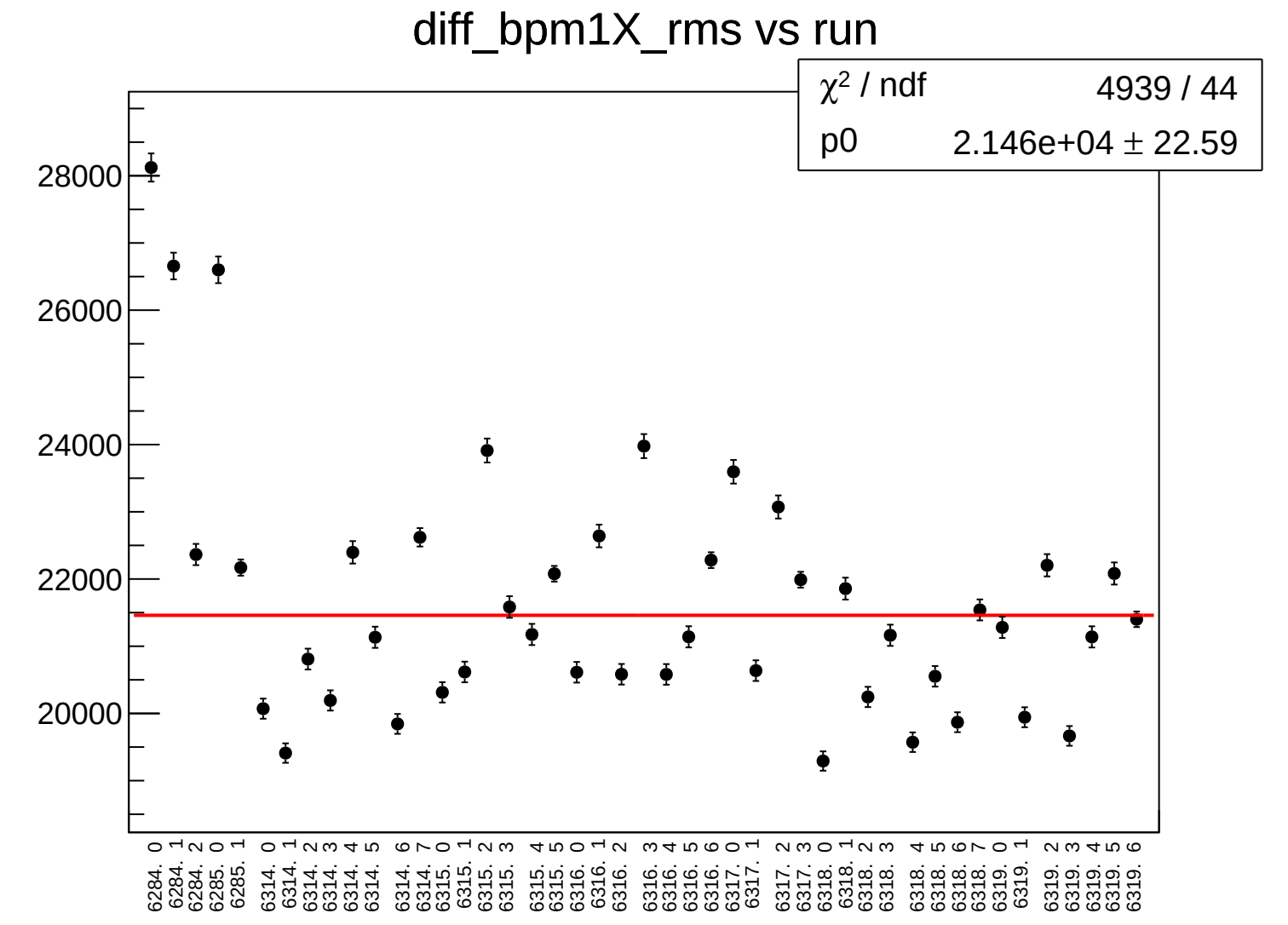

diff_bpm4ecX_rms vs run
χ² / ndf 4637 / 44
p0 2.02e+04 ± 21.27
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

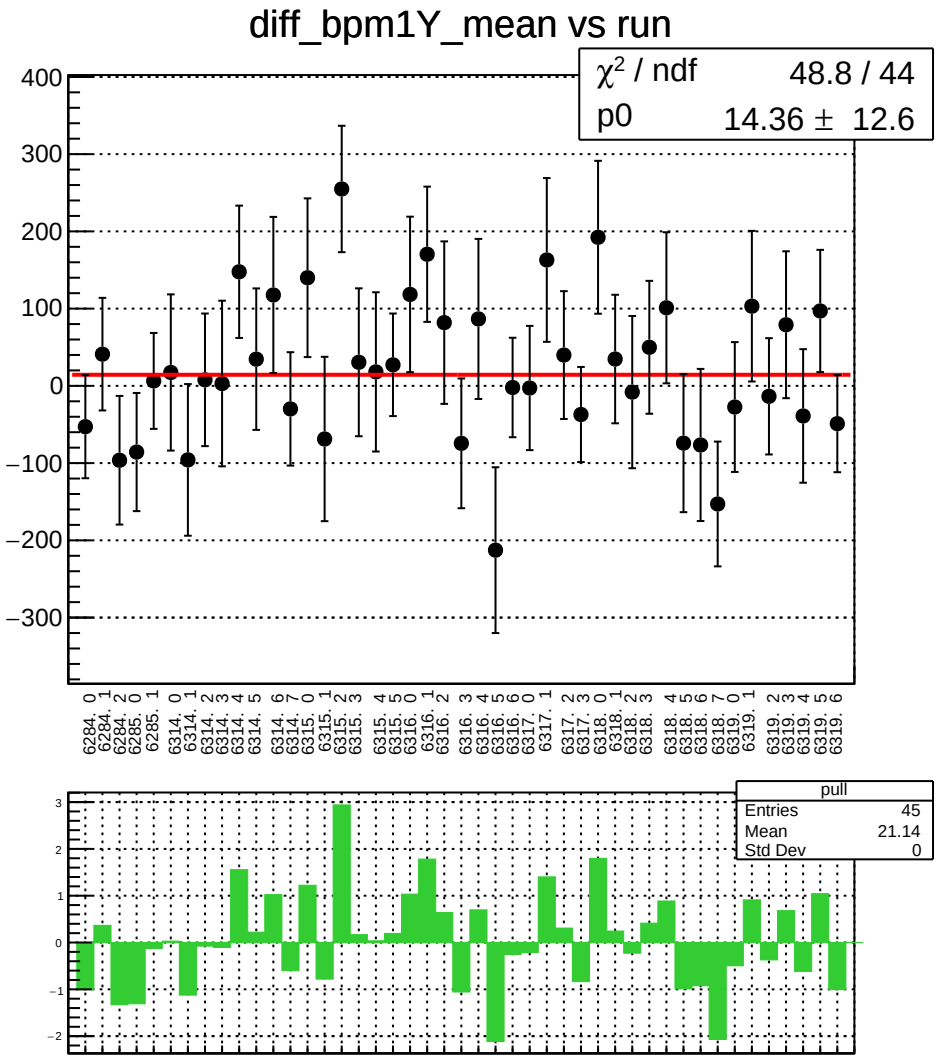

diff_bpm4ecY_mean vs run
χ² / ndf 49.5 / 44
p0 16.38 ± 7.792
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 123.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.008294
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

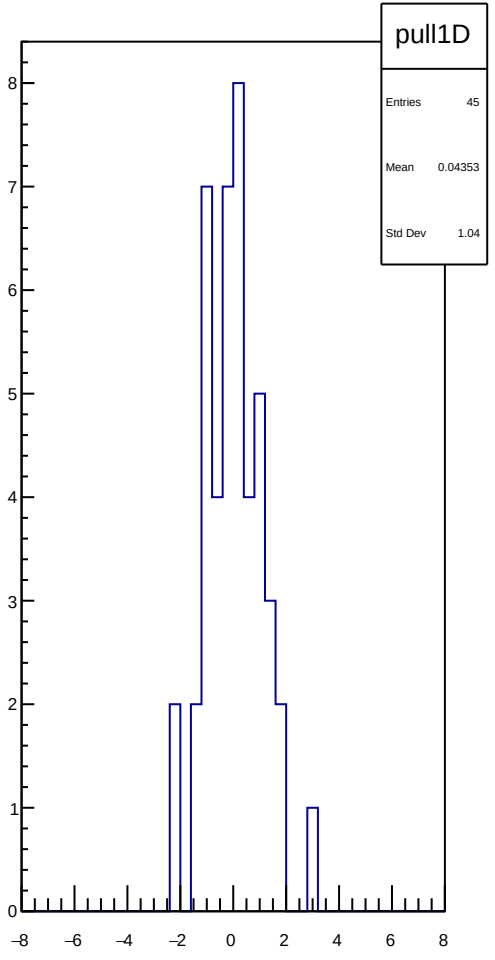

diff_bpm4ecY_rms vs run
χ² / ndf 9502 / 44
p0 5220 ± 5.51
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

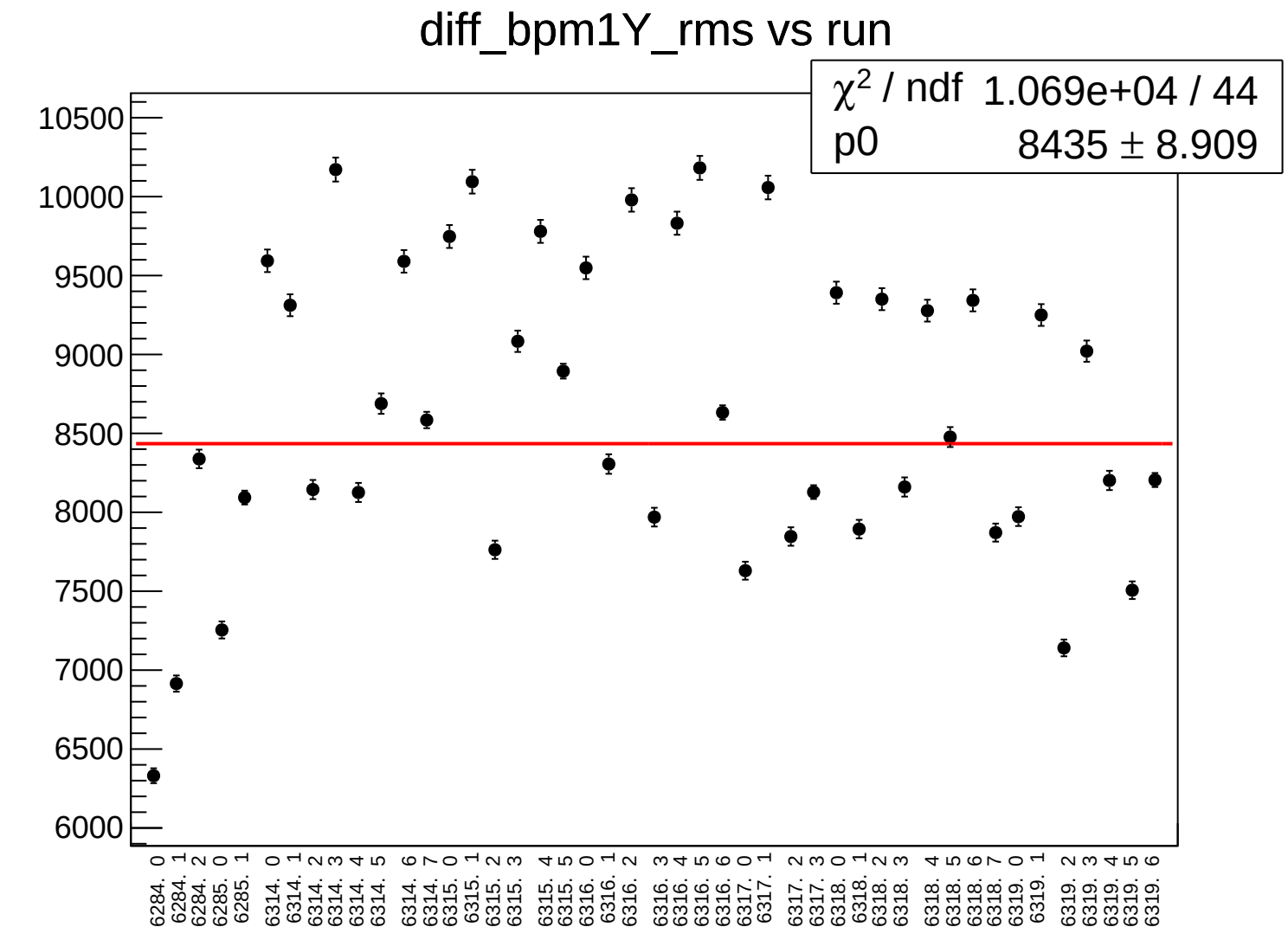

diff_bpm1X_mean vs run
χ² / ndf 41.47 / 44
p0 3.412 ± 31.95
pull
Entries 45
Mean 276.8
Std Dev 0

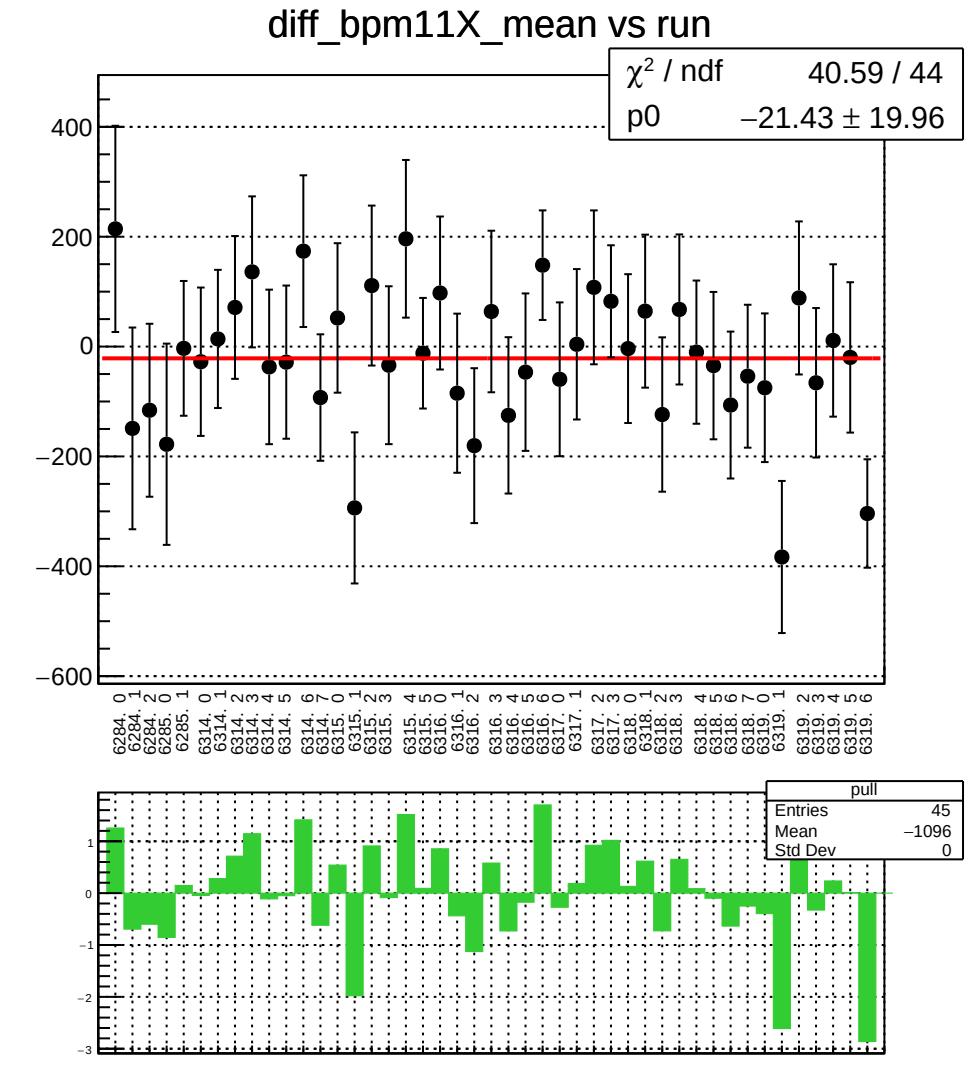

pull1D
Entries 45
Mean 0.006414
Std Dev 0.9599

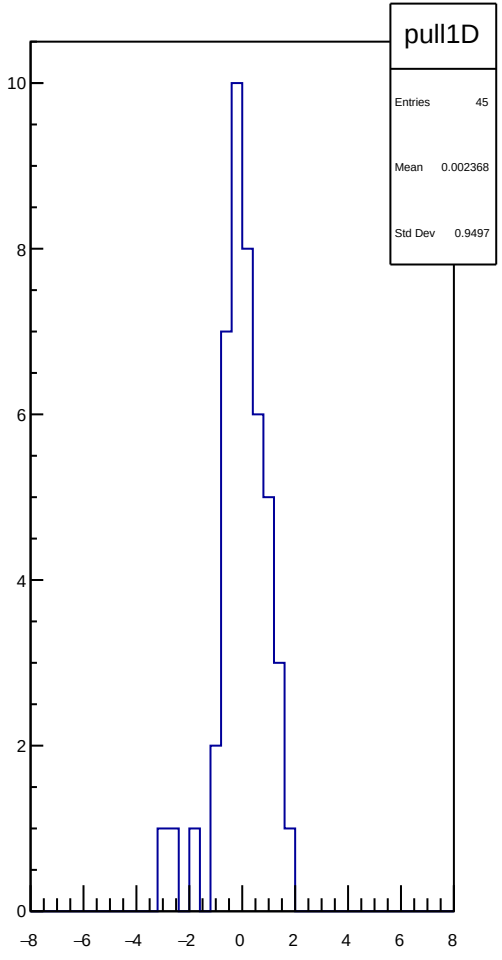

diff_bpm1X_rms vs run
χ² / ndf 4939 / 44
p0 2.146e+04 ± 22.59
28000
26000
24000
22000
20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

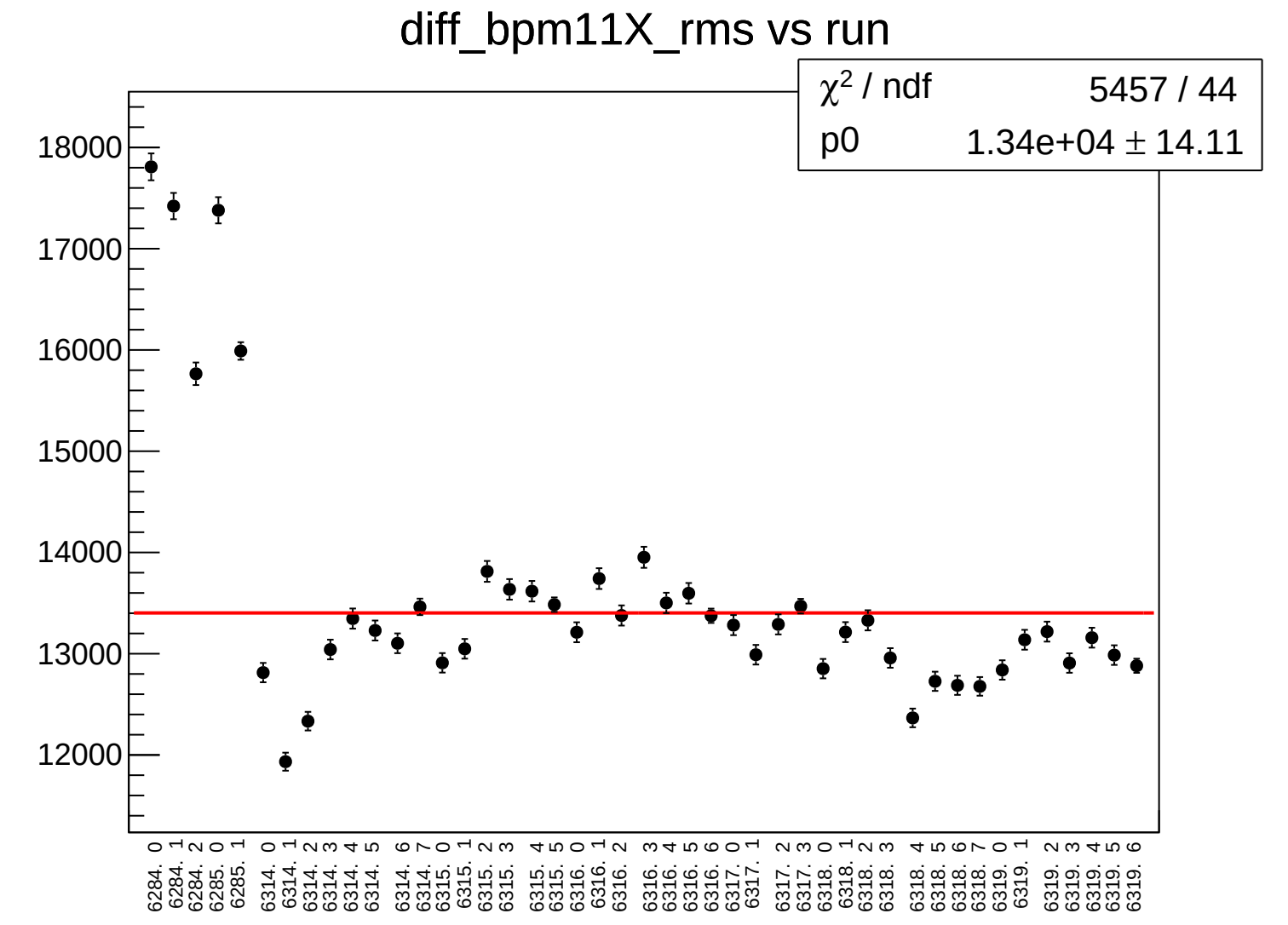

diff_bpm1Y_mean vs run
χ² / ndf 48.8 / 44
p0 14.36 ± 12.6
pull
Entries 45
Mean 21.14
Std Dev 0

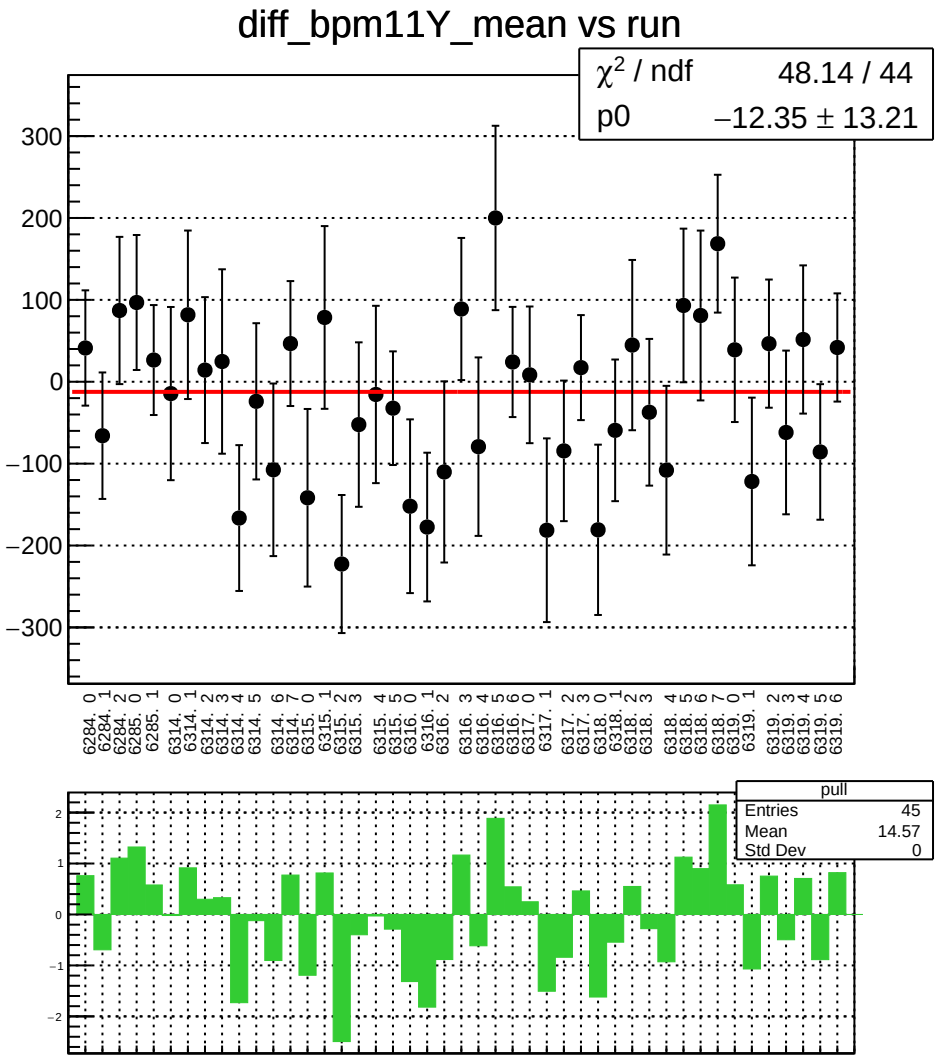

pull1D
Entries 45
Mean 0.04353
Std Dev 1.04

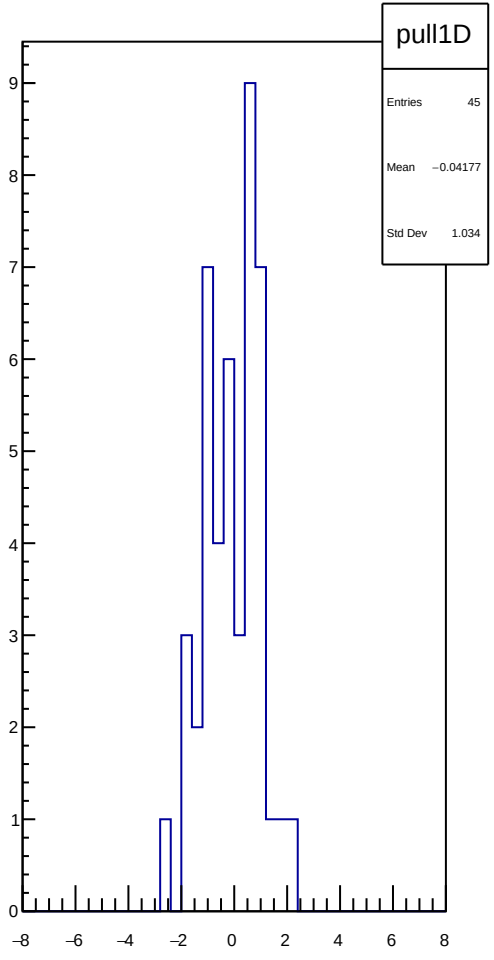

diff_bpm1Y_rms vs run
χ² / ndf 1.069e+04 / 44
p0 8435 ± 8.909
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

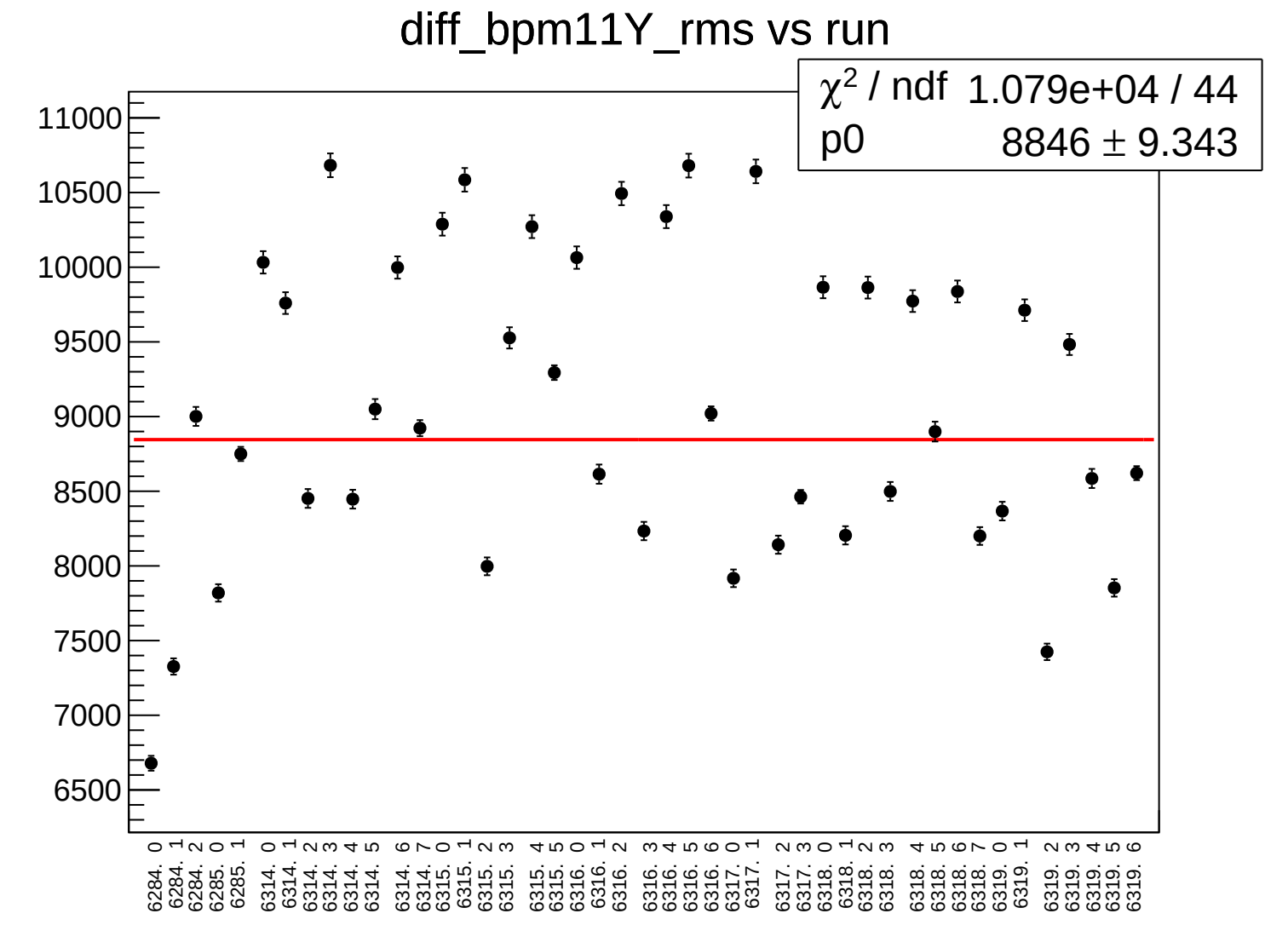

diff_bpm11X_mean vs run
χ² / ndf 40.59 / 44
p0 −21.43 ± 19.96
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1096
Std Dev 0
1
0
−1
−2
−3

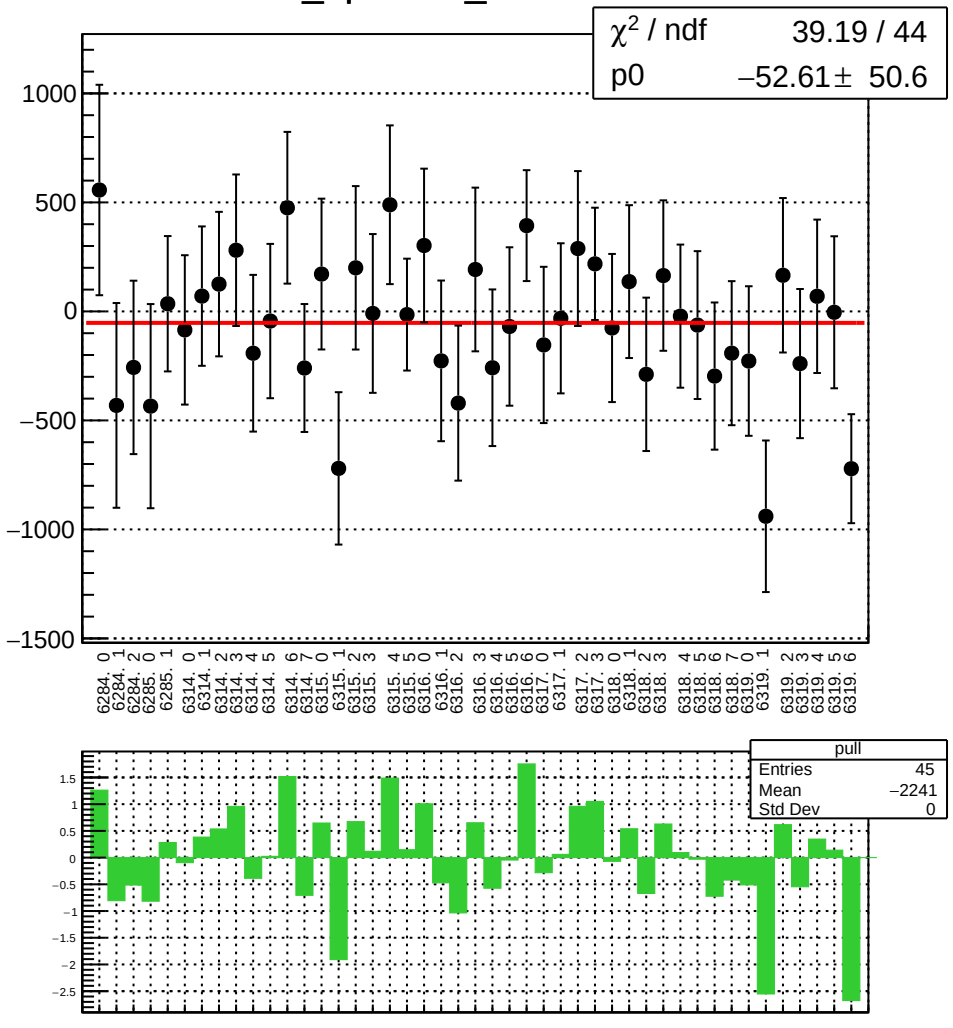

pull1D
Entries 45
Mean 0.002368
Std Dev 0.9497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

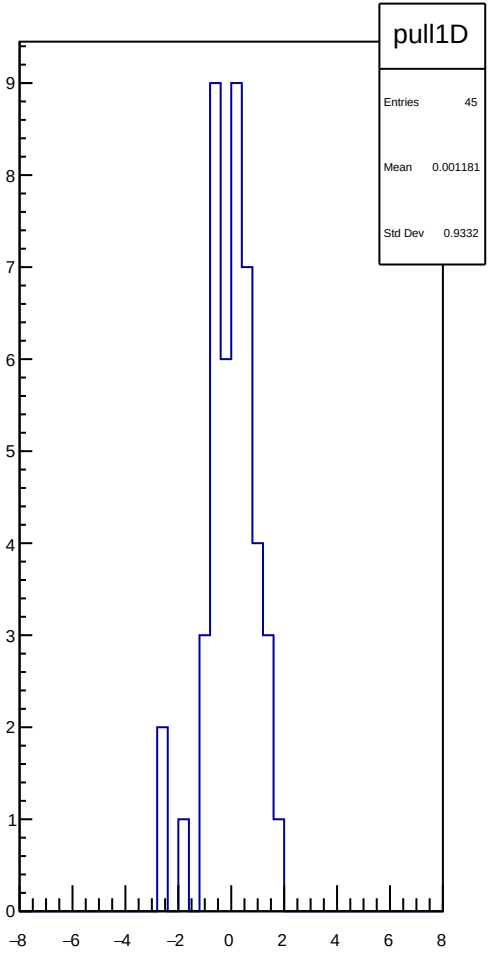

diff_bpm11X_rms vs run
χ² / ndf 5457 / 44
p0 1.34e+04 ± 14.11
18000
17000
16000
15000
14000
13000
12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

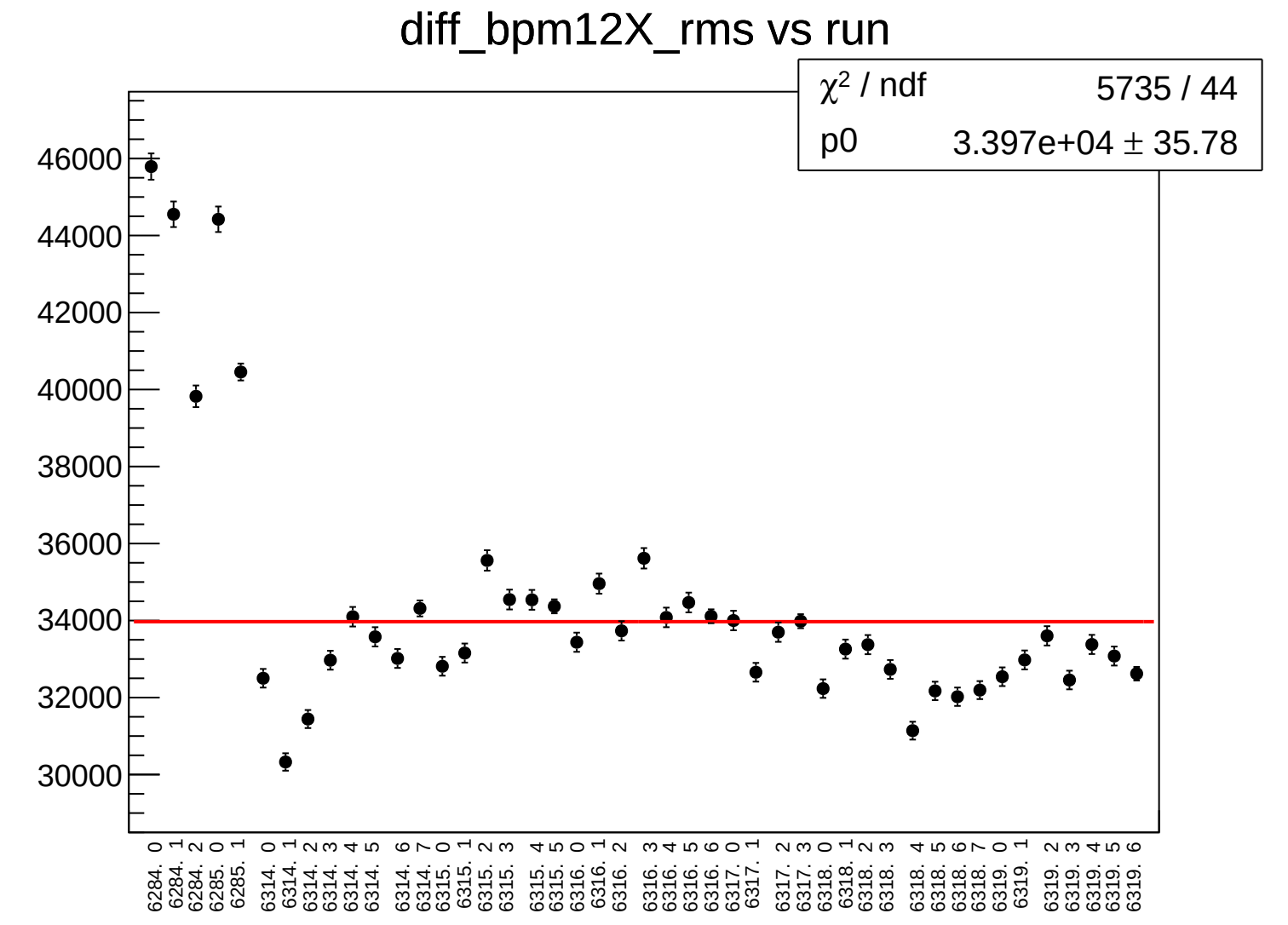

diff_bpm11Y_mean vs run
χ² / ndf 48.14 / 44
p0 −12.35 ± 13.21
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 14.57
Std Dev 0
2
1
0
−1
−2

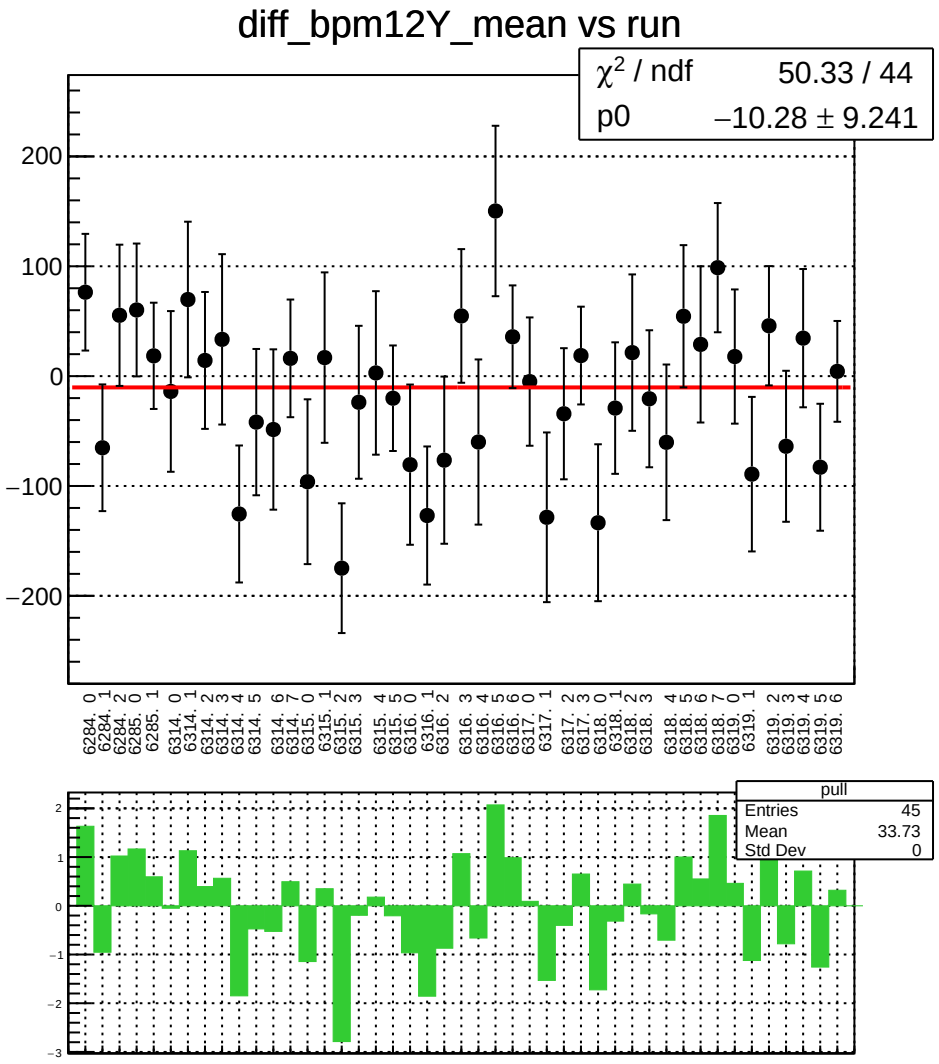

pull1D
Entries 45
Mean −0.04177
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

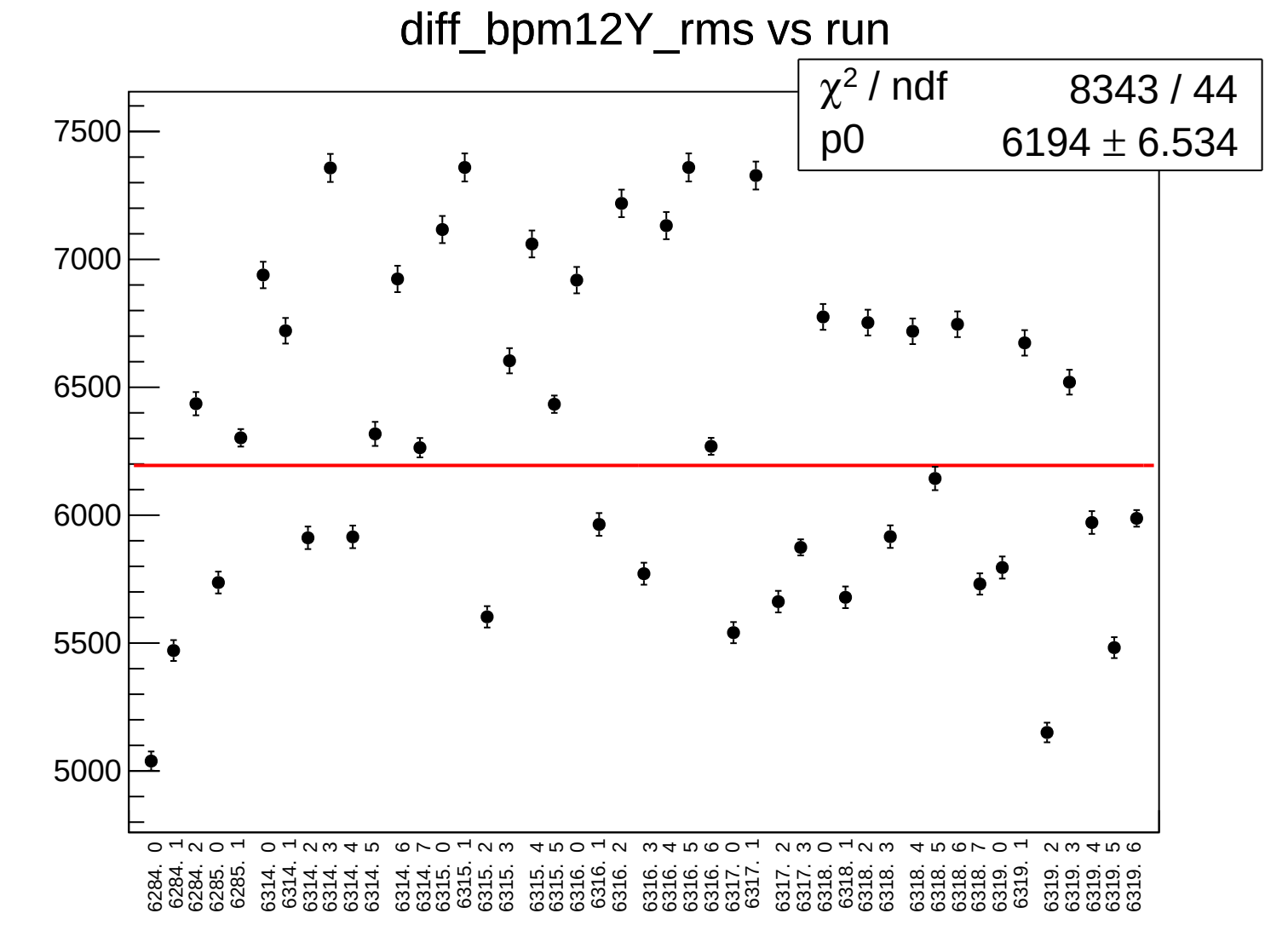

diff_bpm11Y_rms vs run
χ² / ndf 1.079e+04 / 44
p0 8846 ± 9.343
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

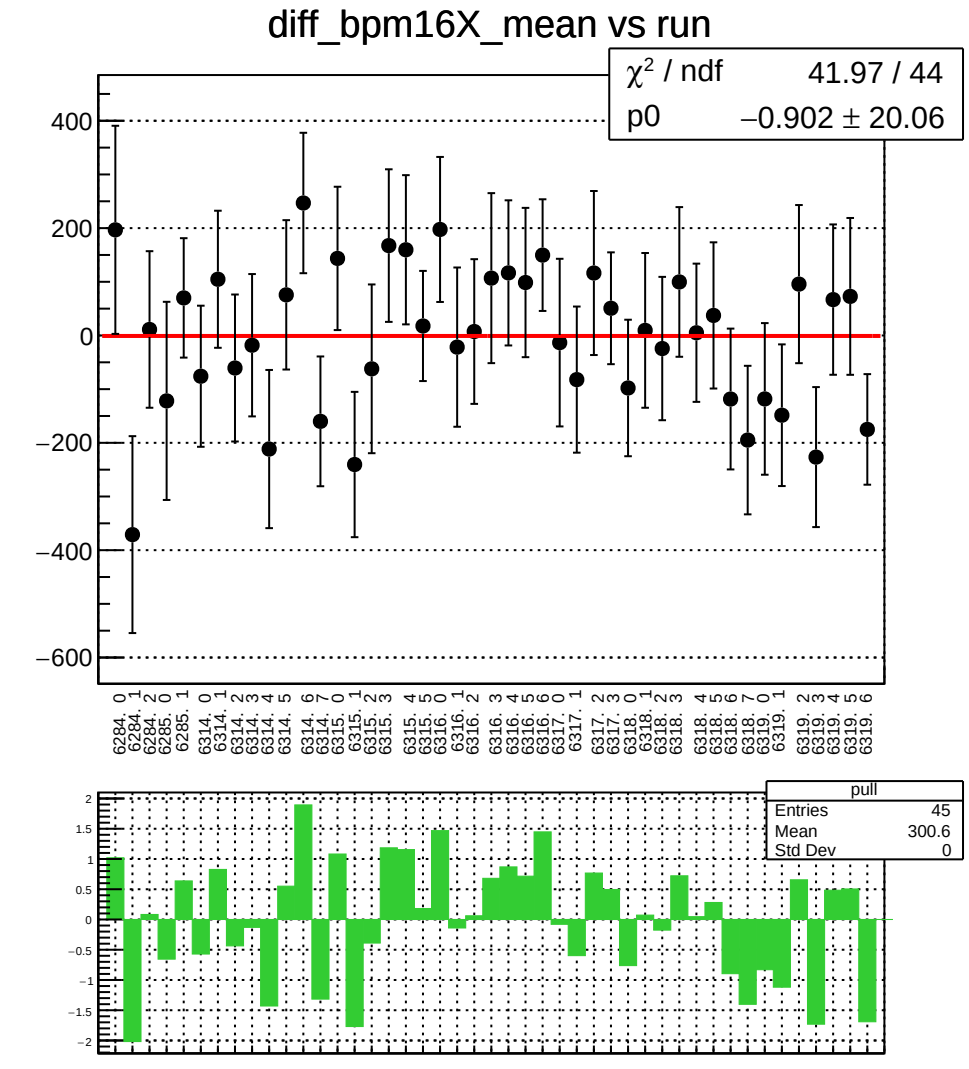

diff_bpm12X_mean vs run
χ² / ndf 39.19 / 44
p0 −52.61± 50.6
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2241
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

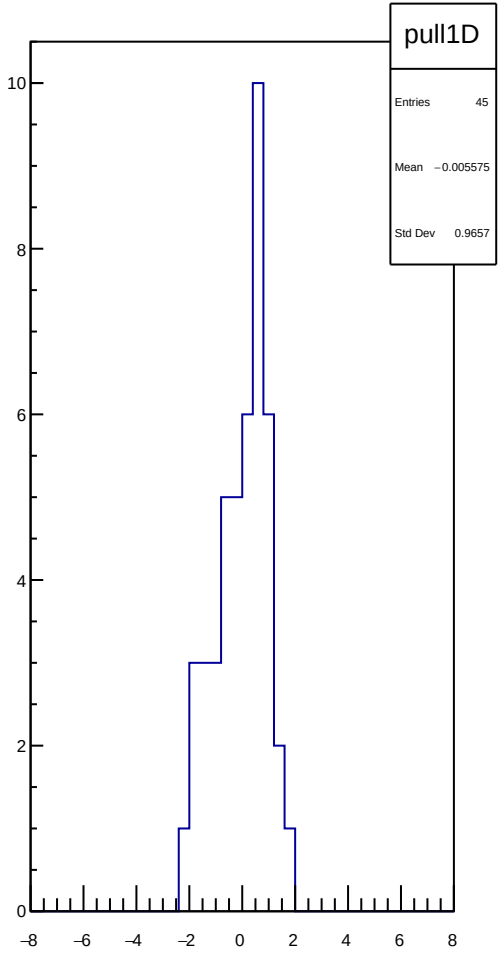

pull1D
Entries 45
Mean 0.001181
Std Dev 0.9332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

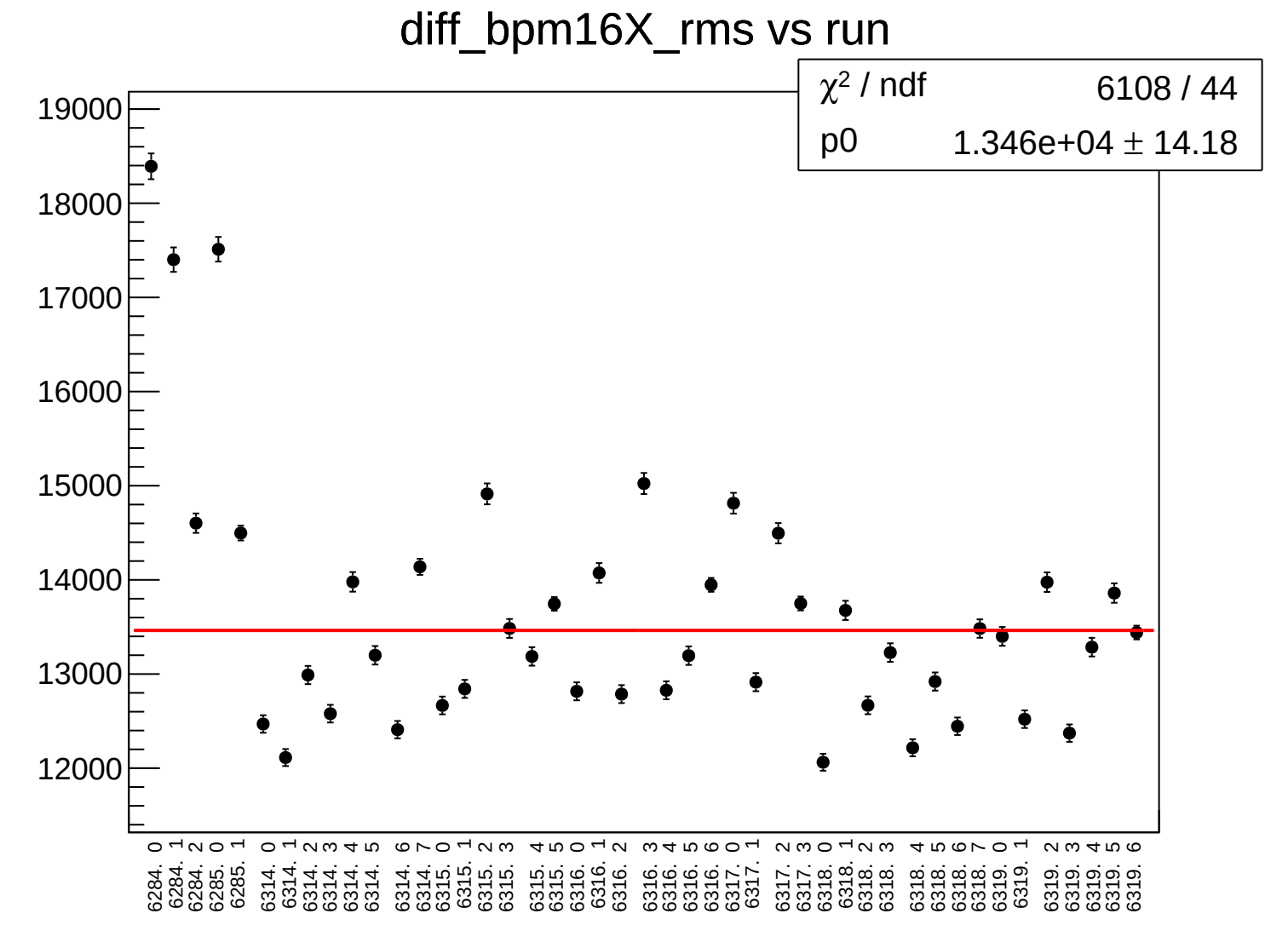

diff_bpm12X_rms vs run
χ² / ndf 5735 / 44
p0 3.397e+04 ± 35.78
46000
44000
42000
40000
38000
36000
34000
32000
30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

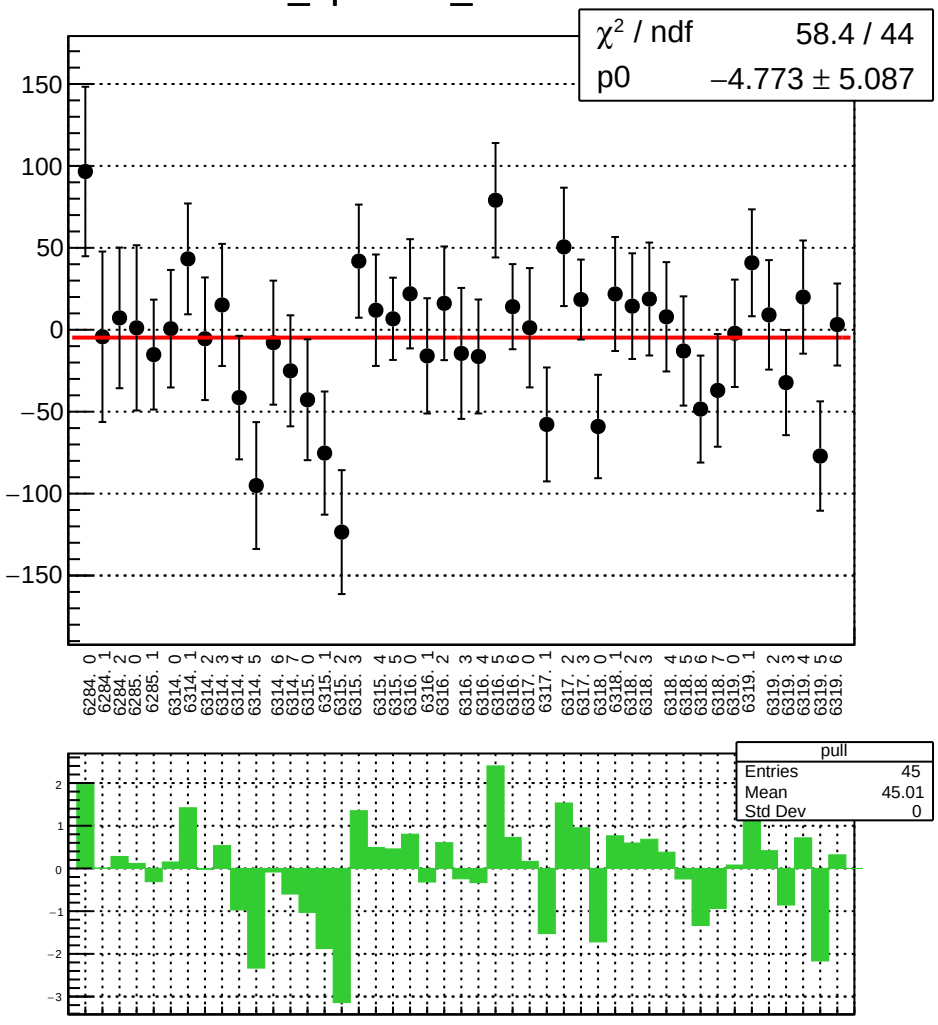

diff_bpm12Y_mean vs run
χ² / ndf 50.33 / 44
p0 −10.28 ± 9.241
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33.73
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.03921
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

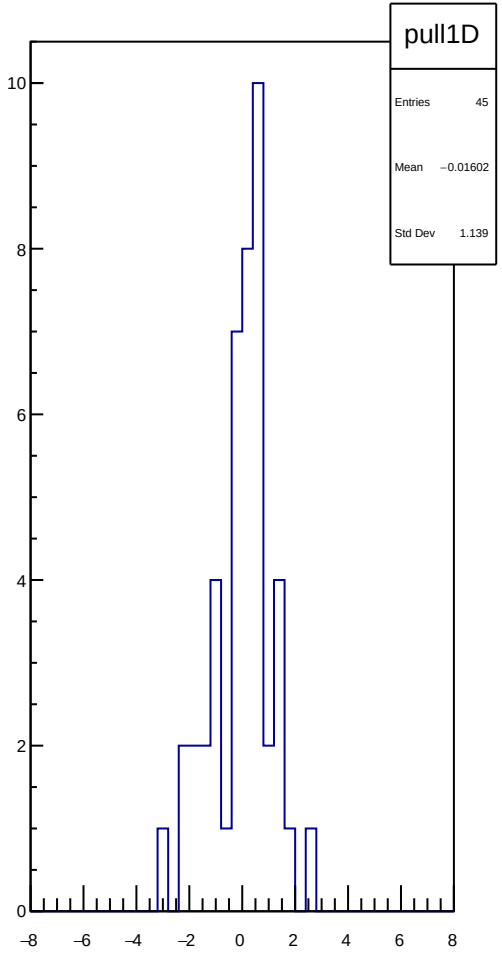

diff_bpm12Y_rms vs run
χ² / ndf 8343 / 44
p0 6194 ± 6.534
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

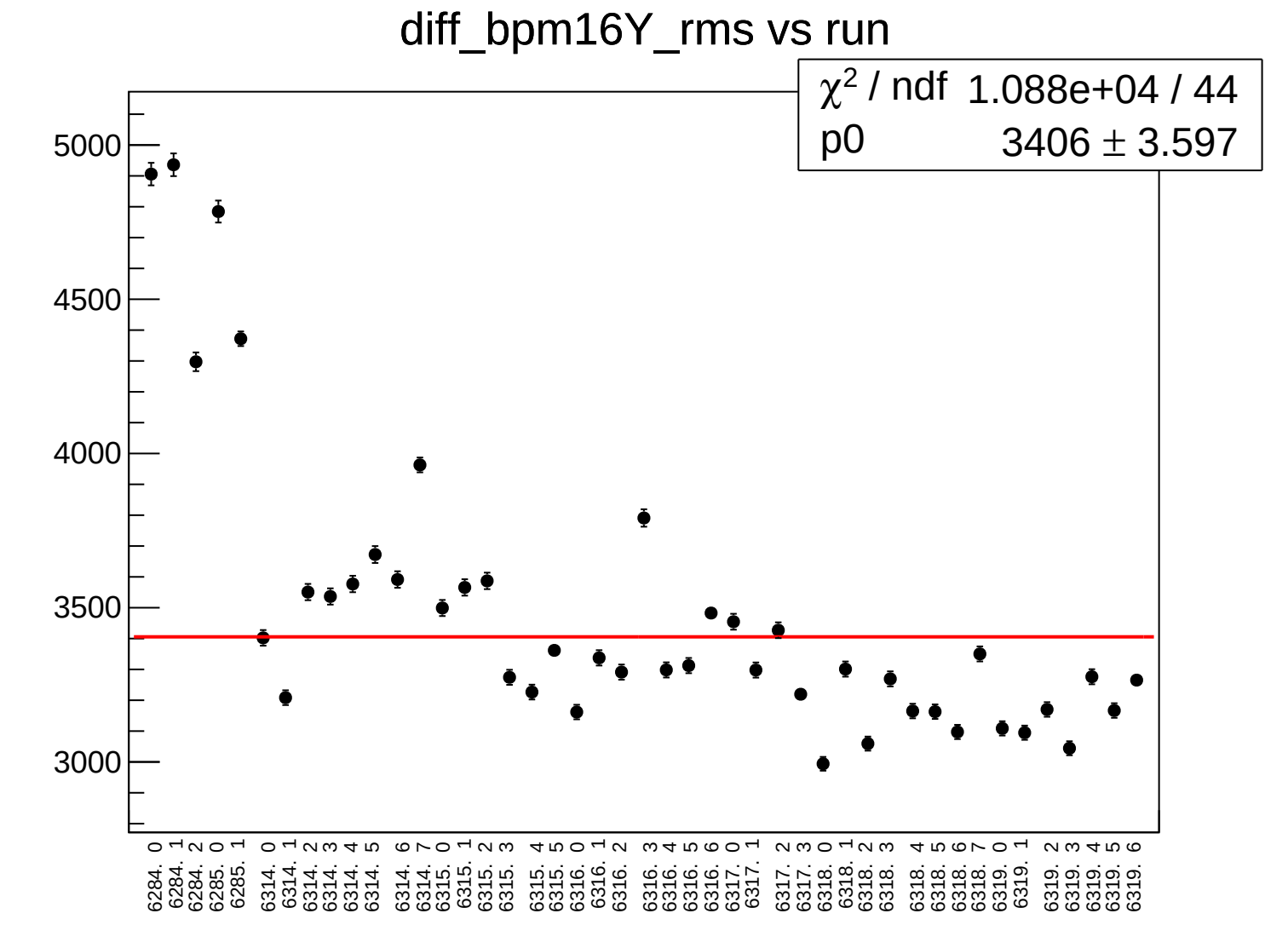

diff_bpm16X_mean vs run
χ² / ndf 41.97 / 44
p0 −0.902 ± 20.06
400
200
0
−200
−400
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 300.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

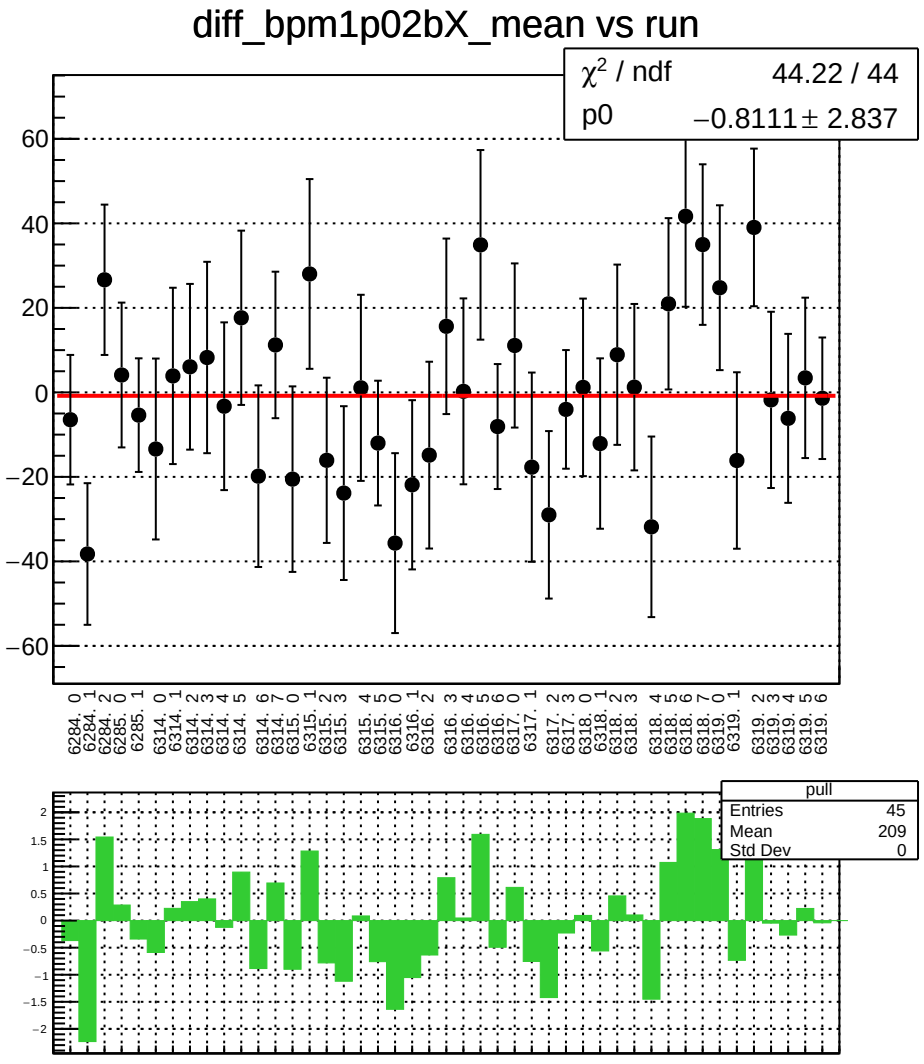

pull1D
Entries 45
Mean −0.005575
Std Dev 0.9657
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

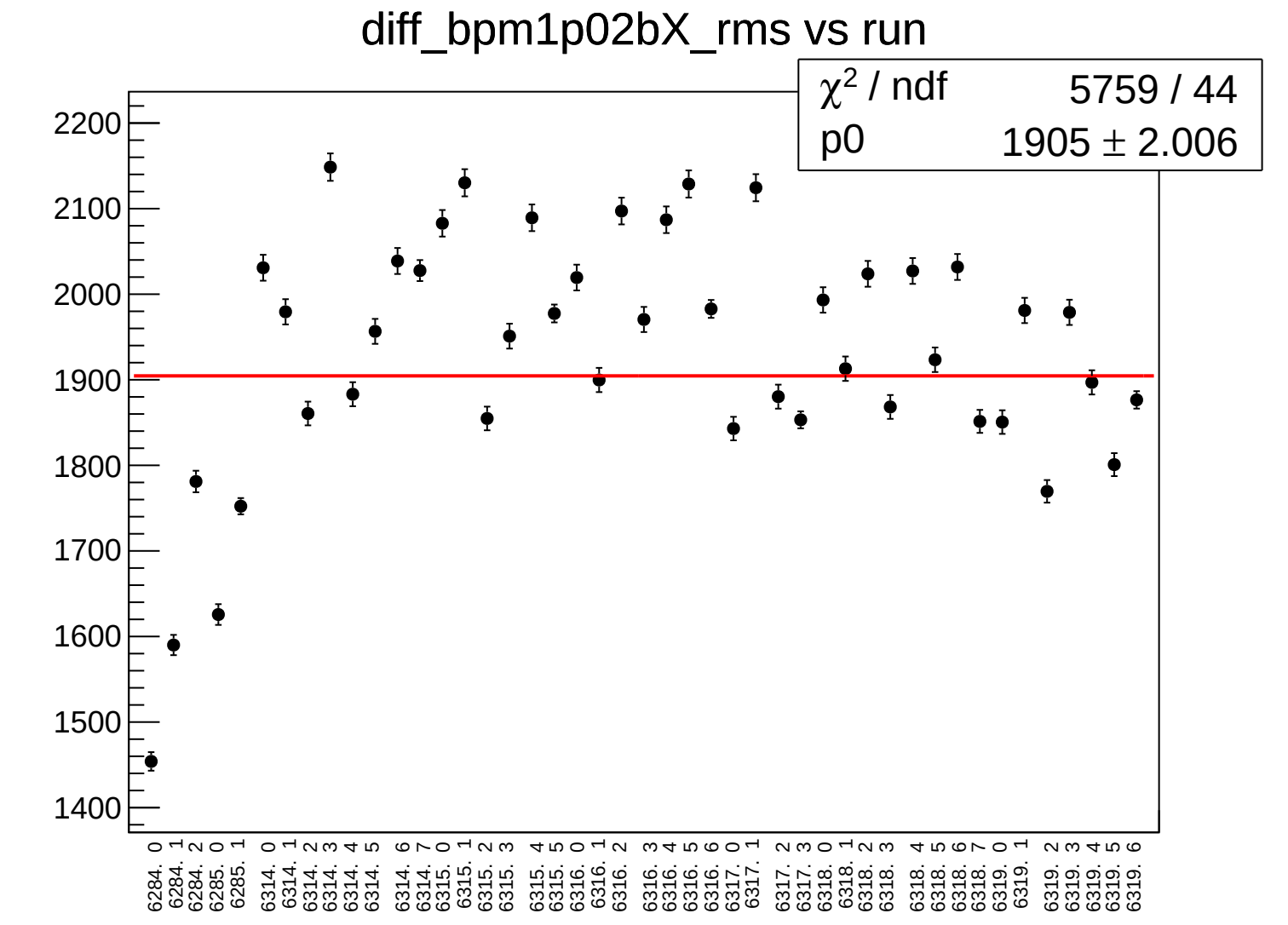

diff_bpm16X_rms vs run
χ² / ndf 6108 / 44
p0 1.346e+04 ± 14.18
19000
18000
17000
16000
15000
14000
13000
12000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

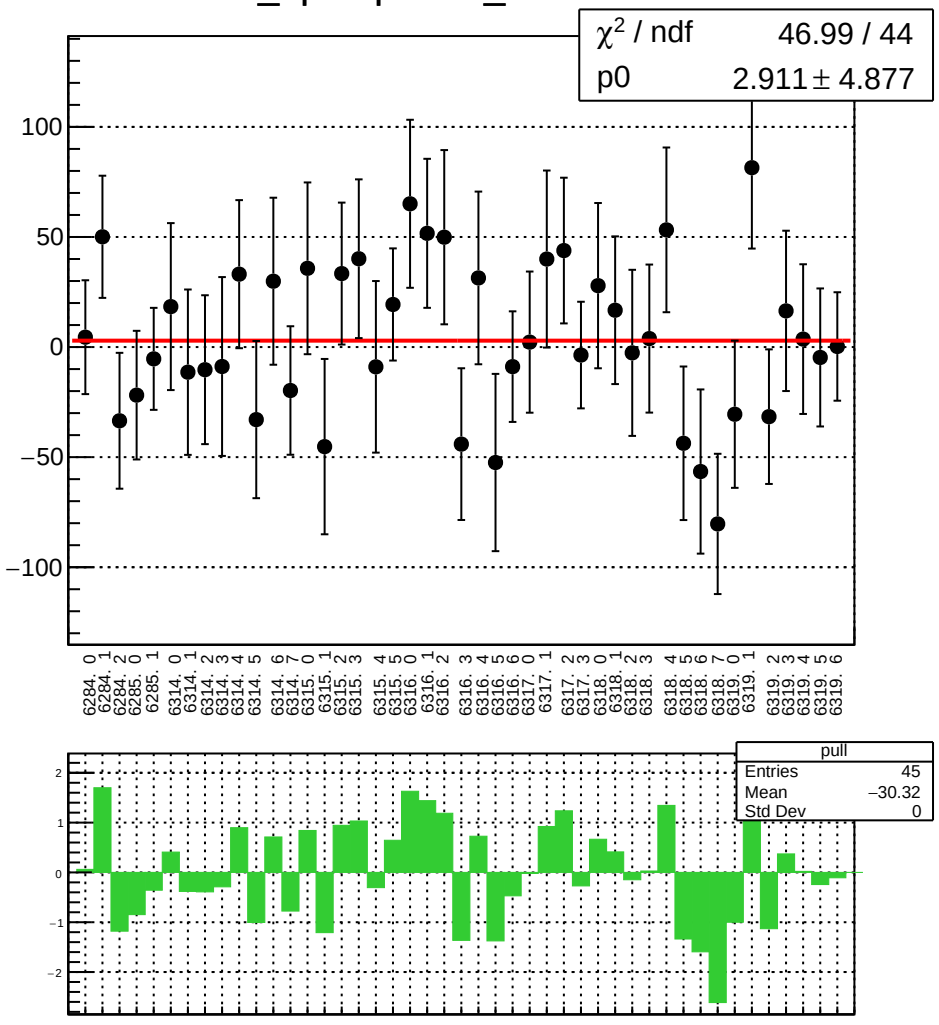

diff_bpm16Y_mean vs run
χ² / ndf 58.4 / 44
p0 −4.773 ± 5.087
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 45.01
Std Dev 0
2
1
0
−1
−2
−3

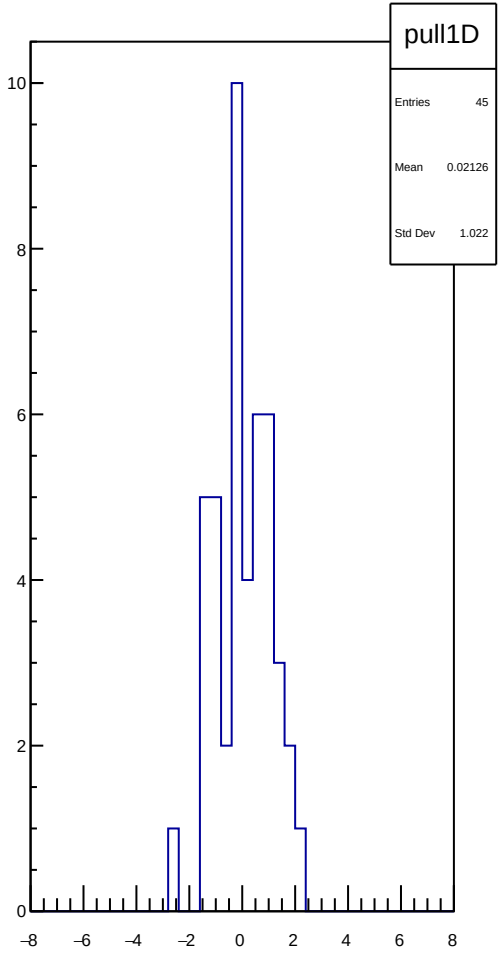

pull1D
Entries 45
Mean −0.01602
Std Dev 1.139
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

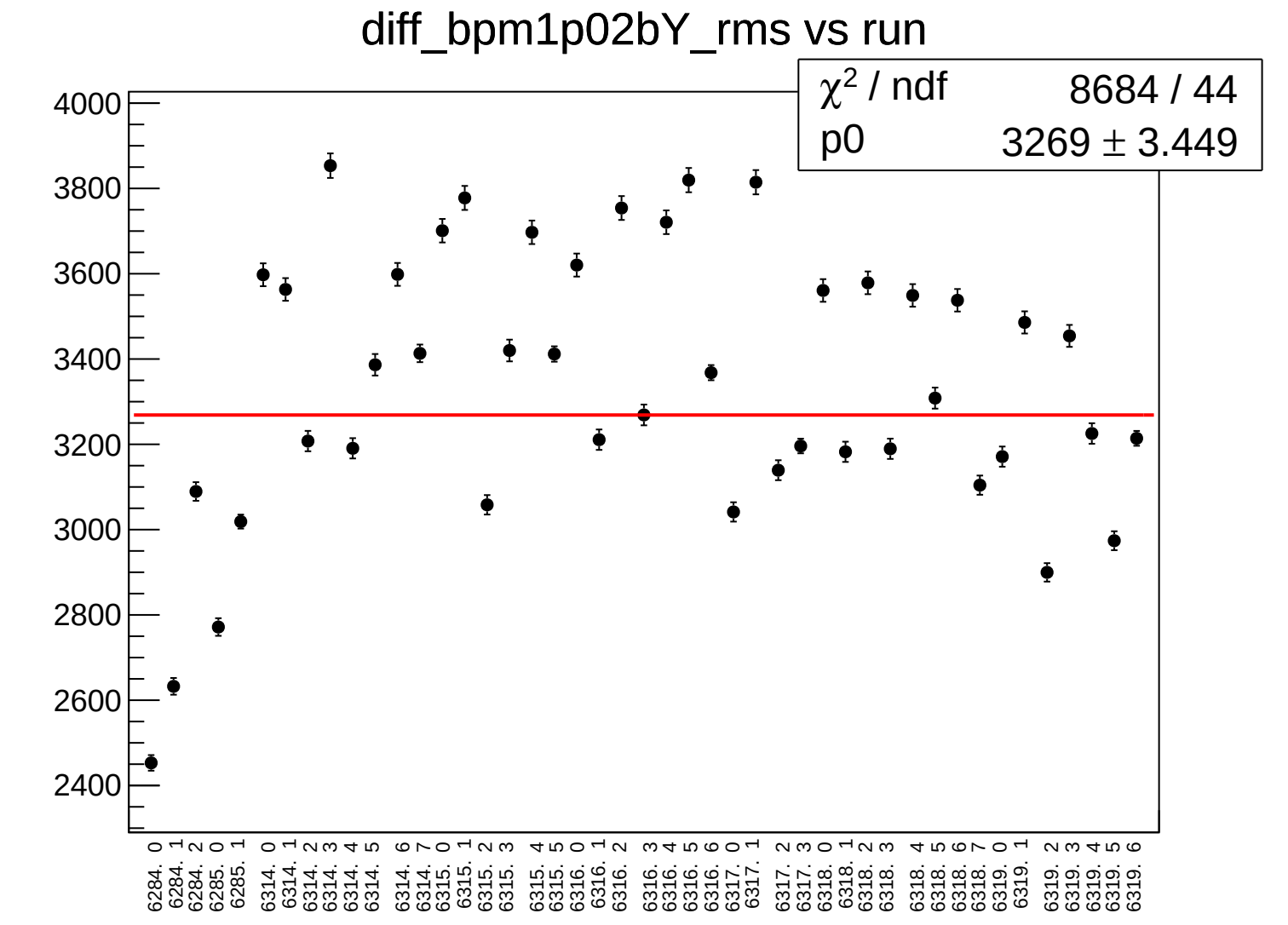

diff_bpm16Y_rms vs run
χ² / ndf 1.088e+04 / 44
p0 3406 ± 3.597
5000
4500
4000
3500
3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm1p02bX_mean vs run
χ² / ndf 44.22 / 44
p0 −0.8111 ± 2.837
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 209
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01467
Std Dev 0.9912
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1p02bX_rms vs run
χ² / ndf 5759 / 44
p0 1905 ± 2.006
2200
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm1p02bY_mean vs run
χ² / ndf 46.99 / 44
p0 2.911 ± 4.877
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −30.32
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02126
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1p02bY_rms vs run
χ² / ndf 8684 / 44
p0 3269 ± 3.449
4000
3800
3600
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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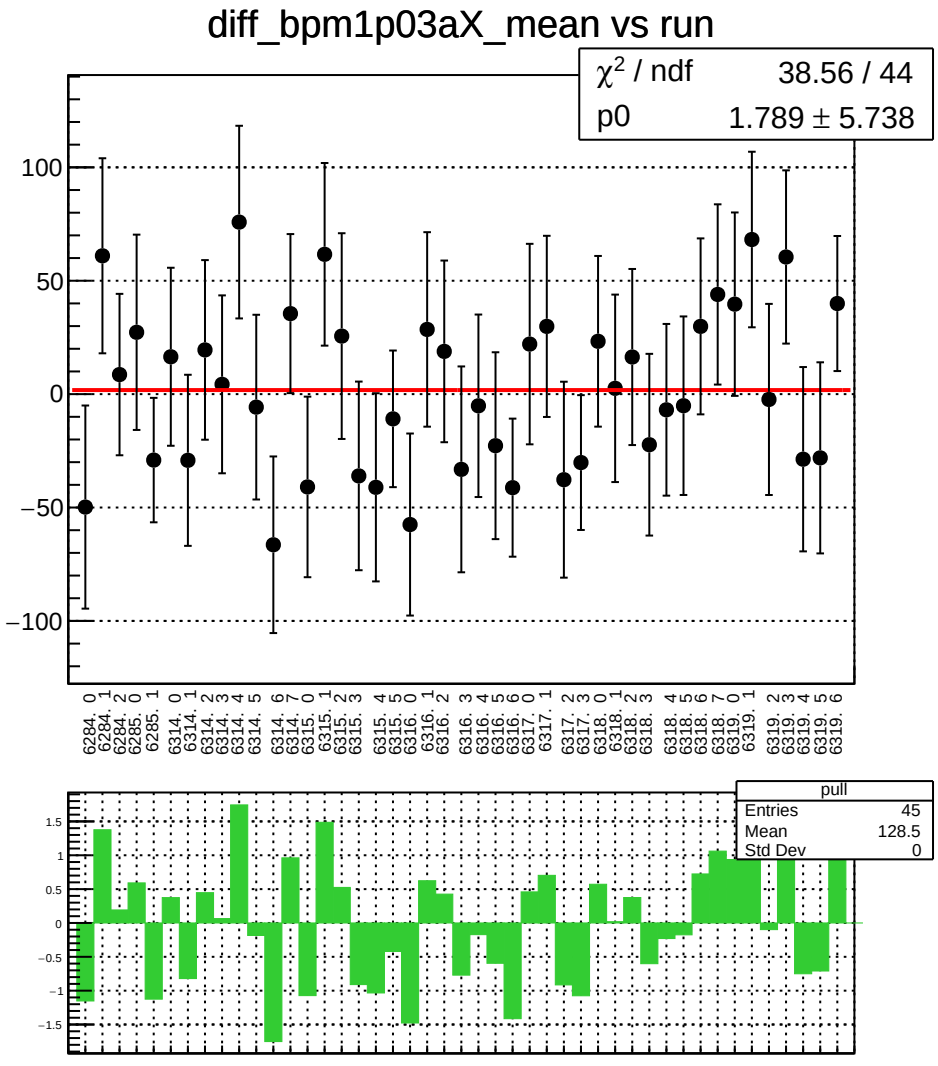
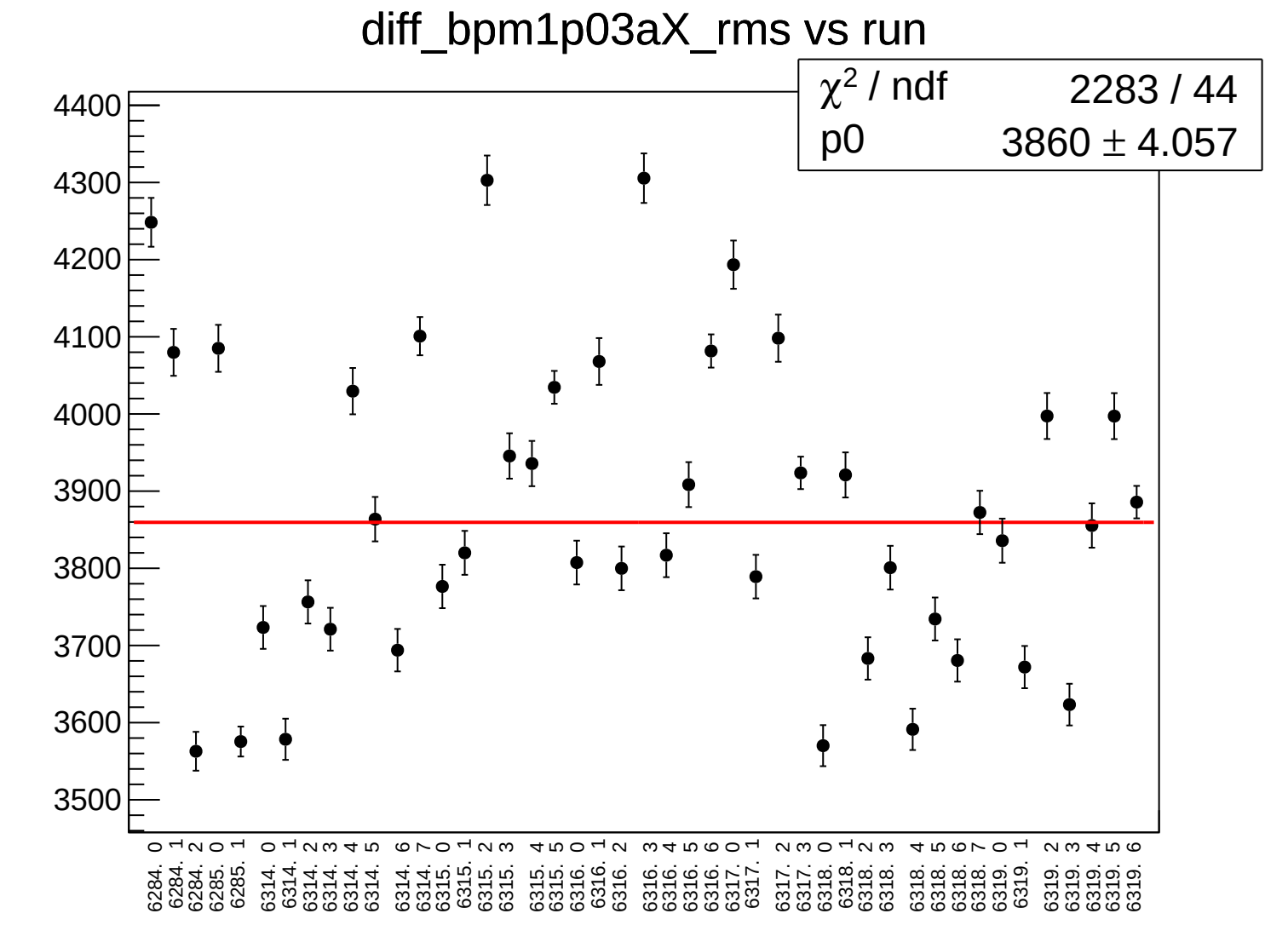
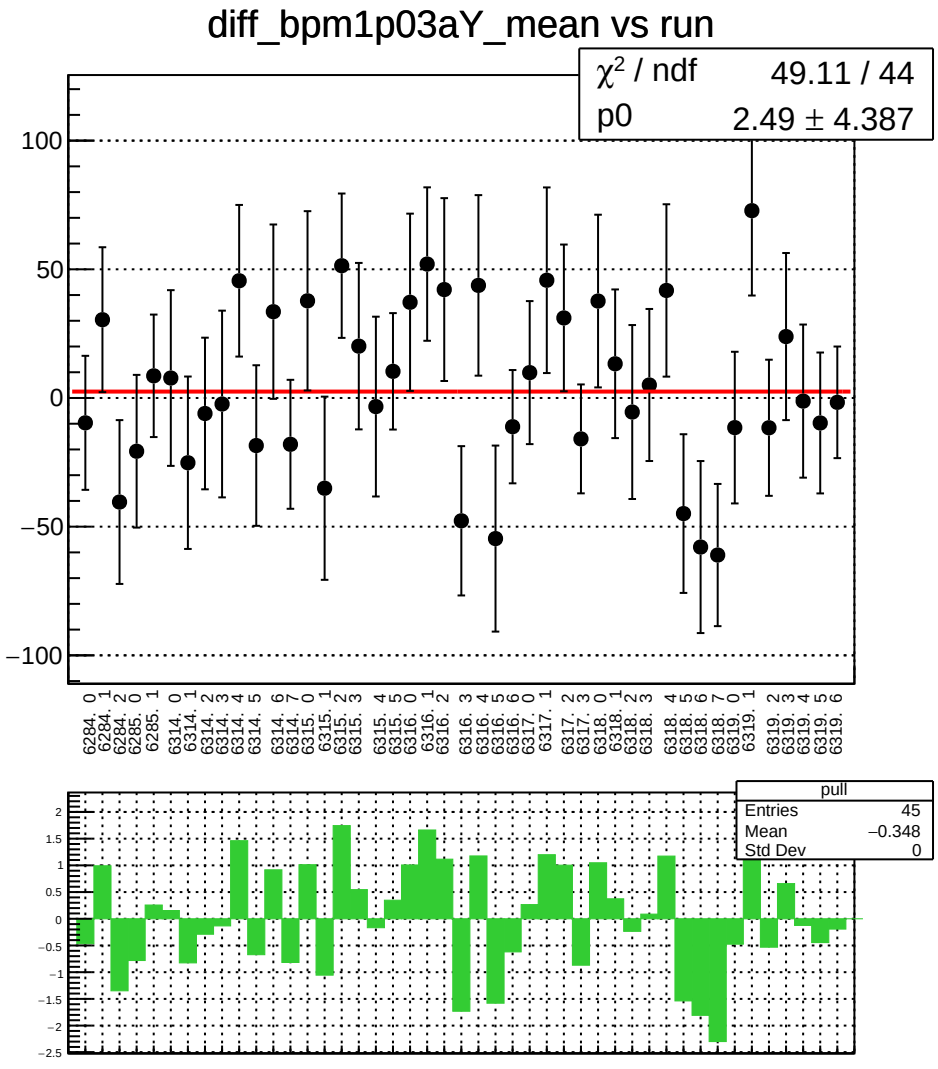
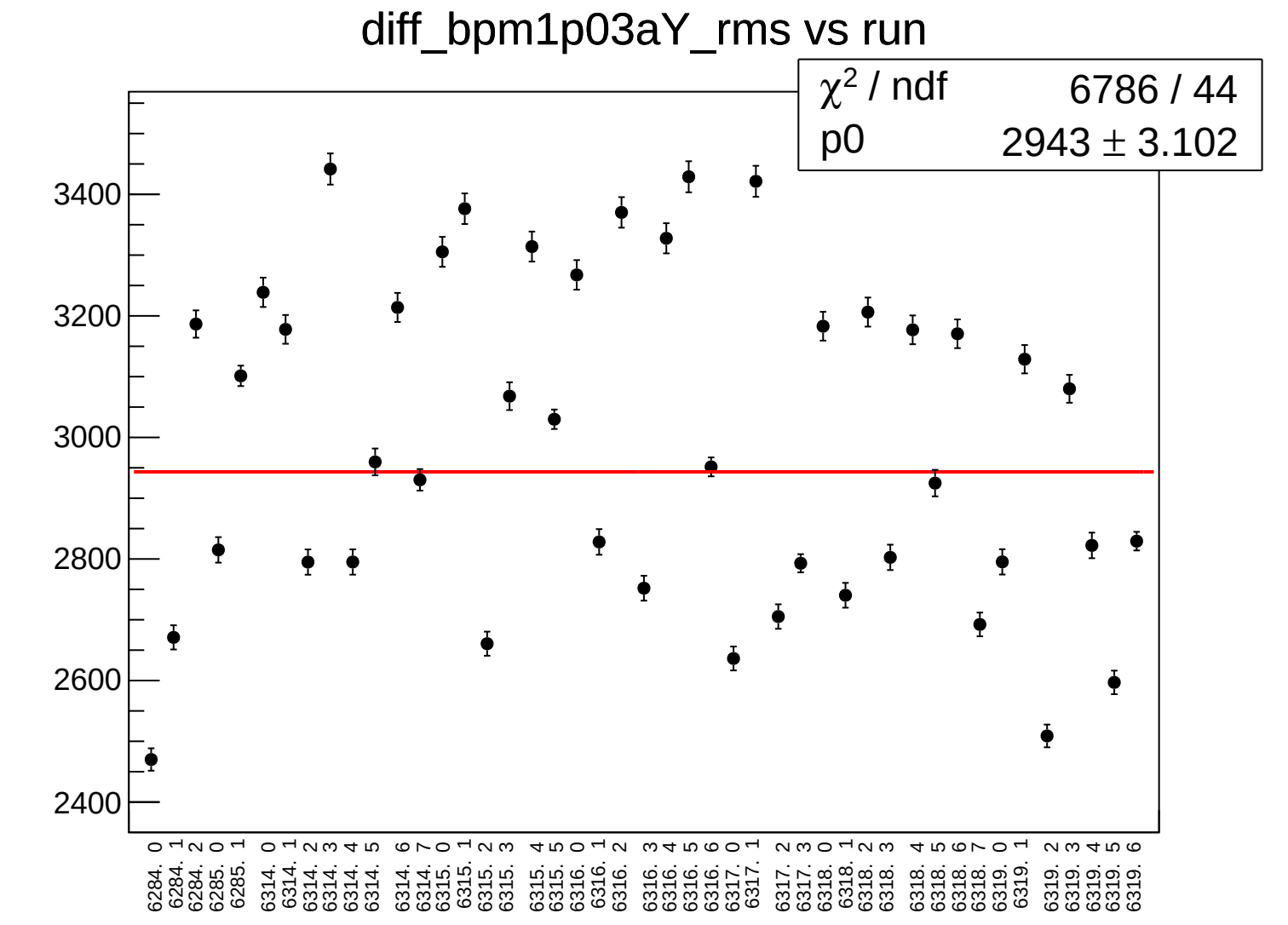
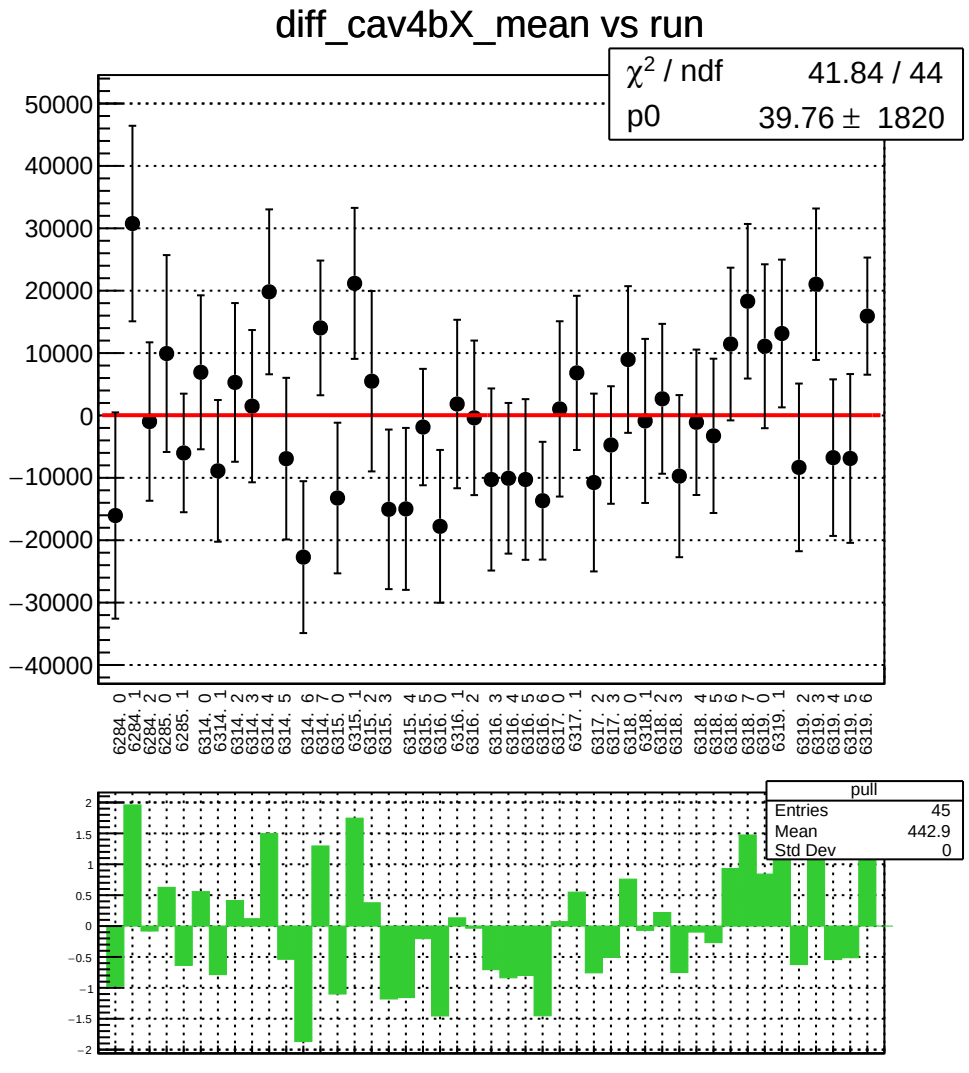
6319. 5
6319. 6

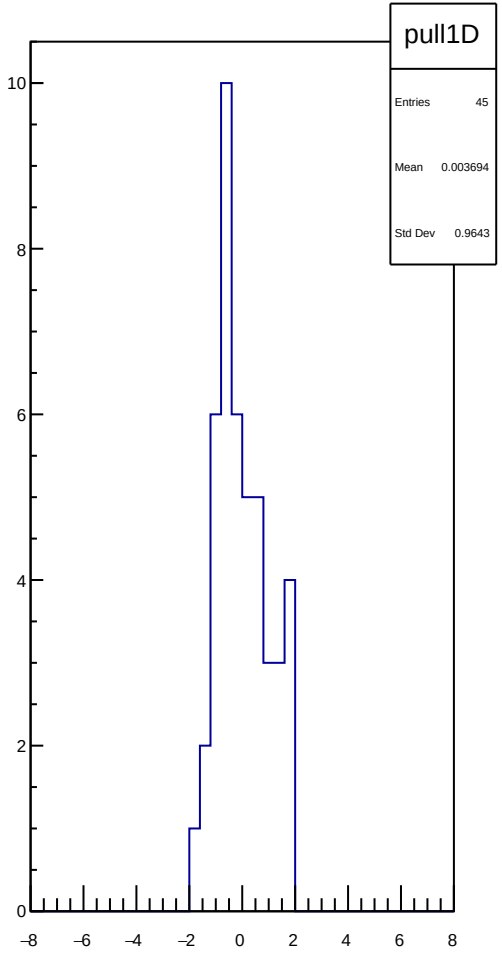

diff_bpm1p03aX_mean vs run
χ² / ndf 38.56 / 44
p0 1.789 ± 5.738
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 128.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01648
Std Dev 0.9255
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

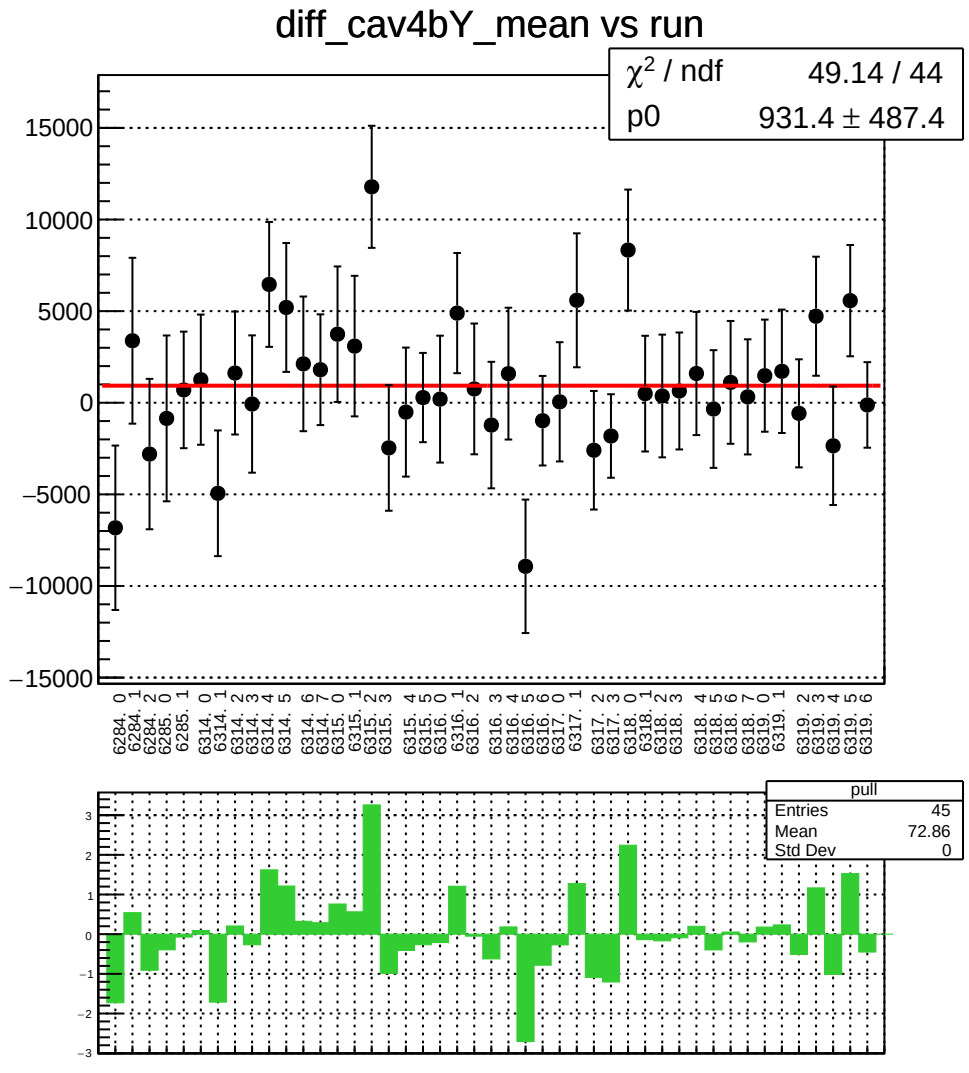

diff_bpm1p03aX_rms vs run
χ² / ndf 2283 / 44
p0 3860 ± 4.057
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

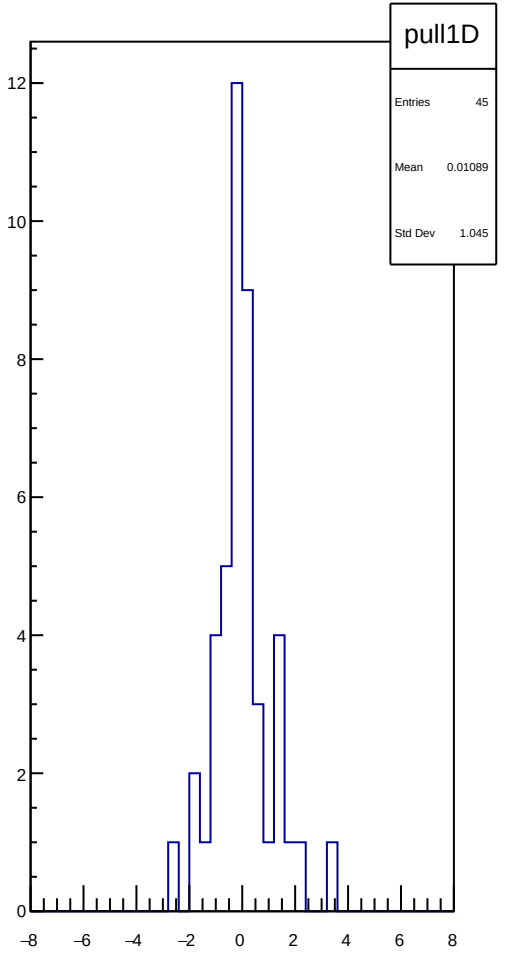

diff_bpm1p03aY_mean vs run
χ² / ndf 49.11 / 44
p0 2.49 ± 4.387
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −0.348
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02948
Std Dev 1.044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

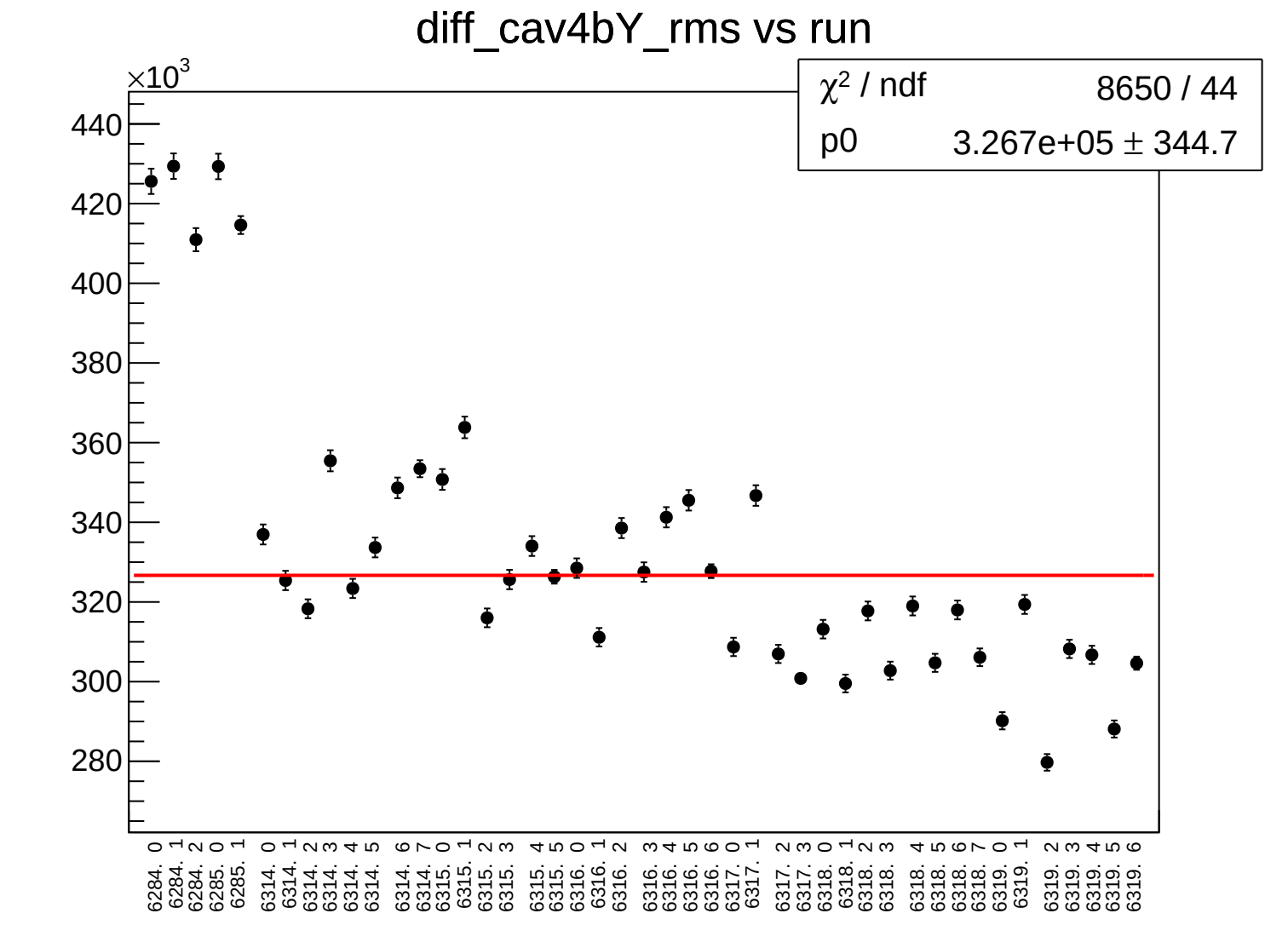

diff_bpm1p03aY_rms vs run
χ² / ndf 6786 / 44
p0 2943 ± 3.102
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

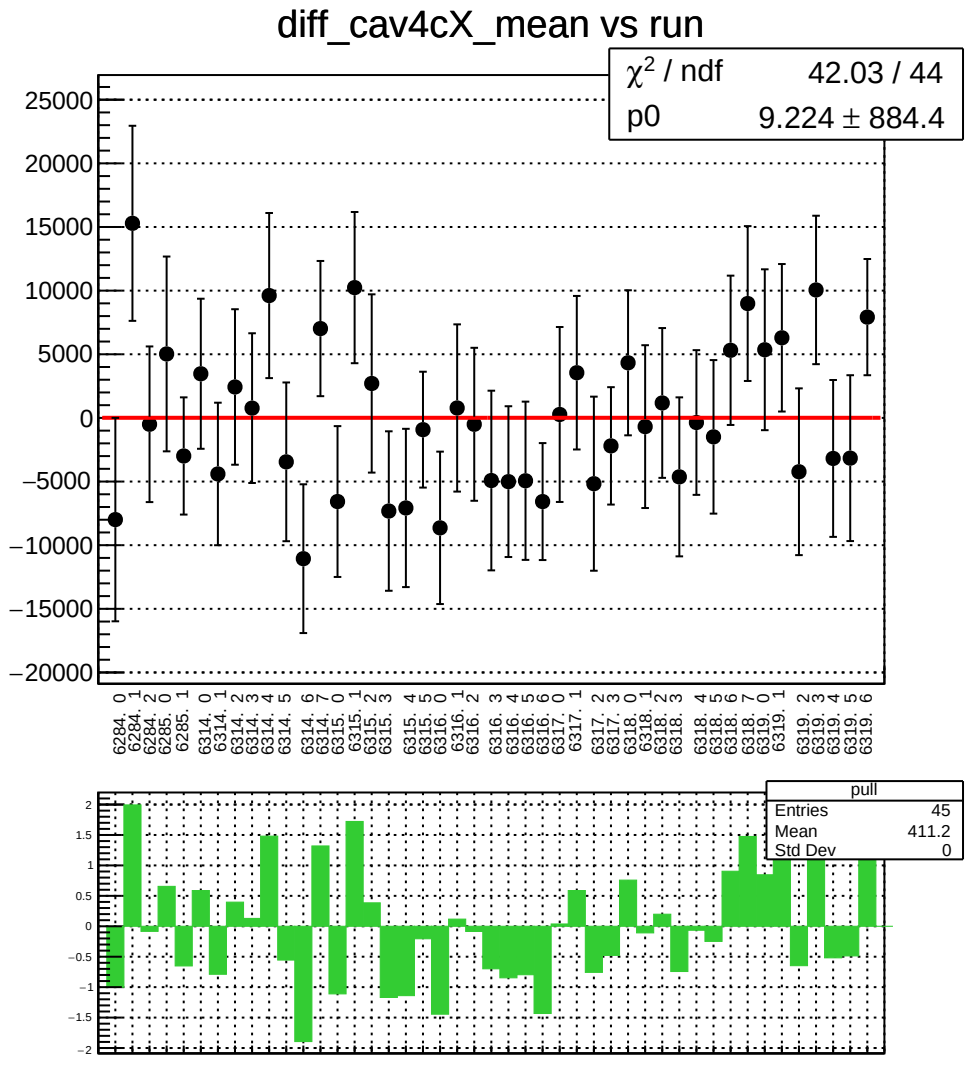

diff_cav4bX_mean vs run
χ² / ndf 41.84 / 44
p0 39.76 ± 1820
pull
Entries 45
Mean 442.9
Std Dev 0

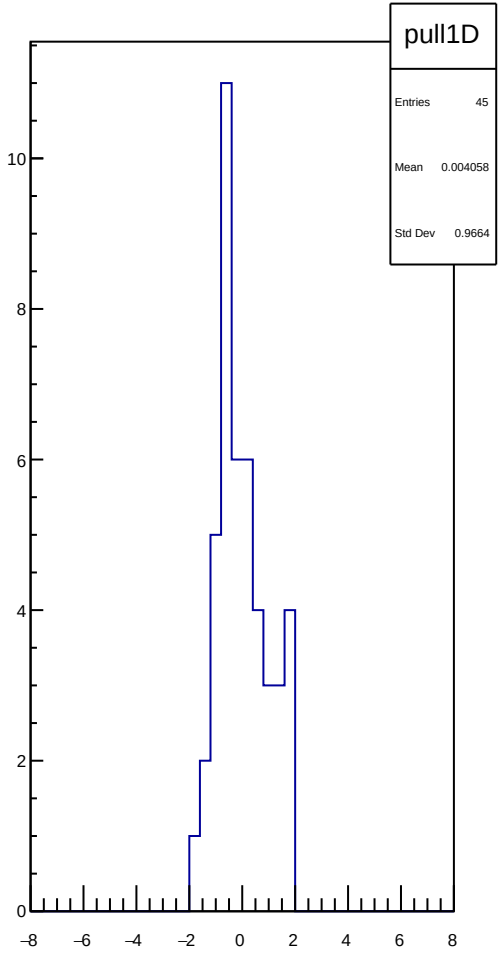

pull1D
Entries 45
Mean 0.003694
Std Dev 0.9643

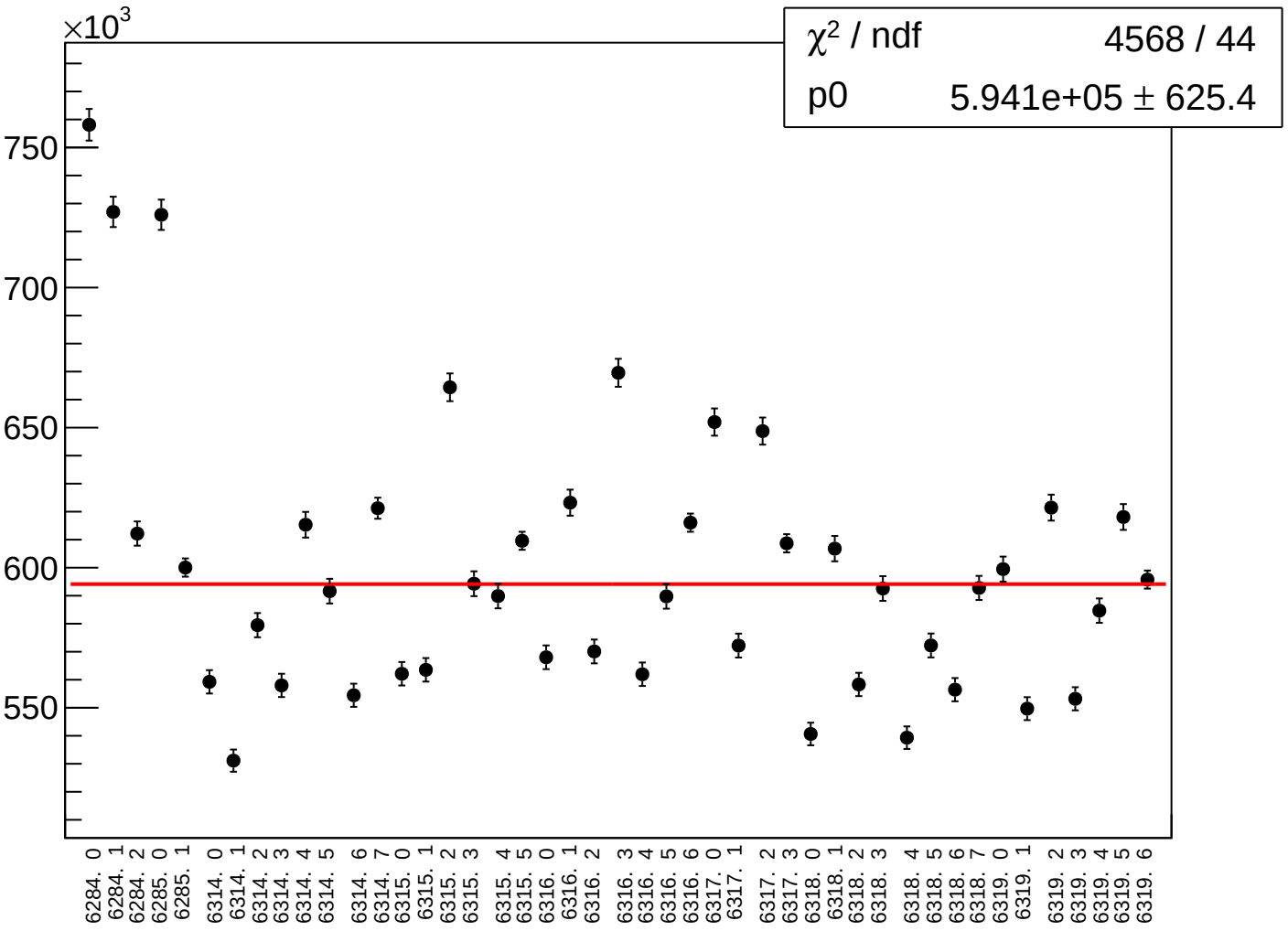

diff_cav4bY_mean vs run
χ² / ndf 49.14 / 44
p0 931.4 ± 487.4
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 72.86
Std Dev 0
3
2
1
0
−1
−2
−3

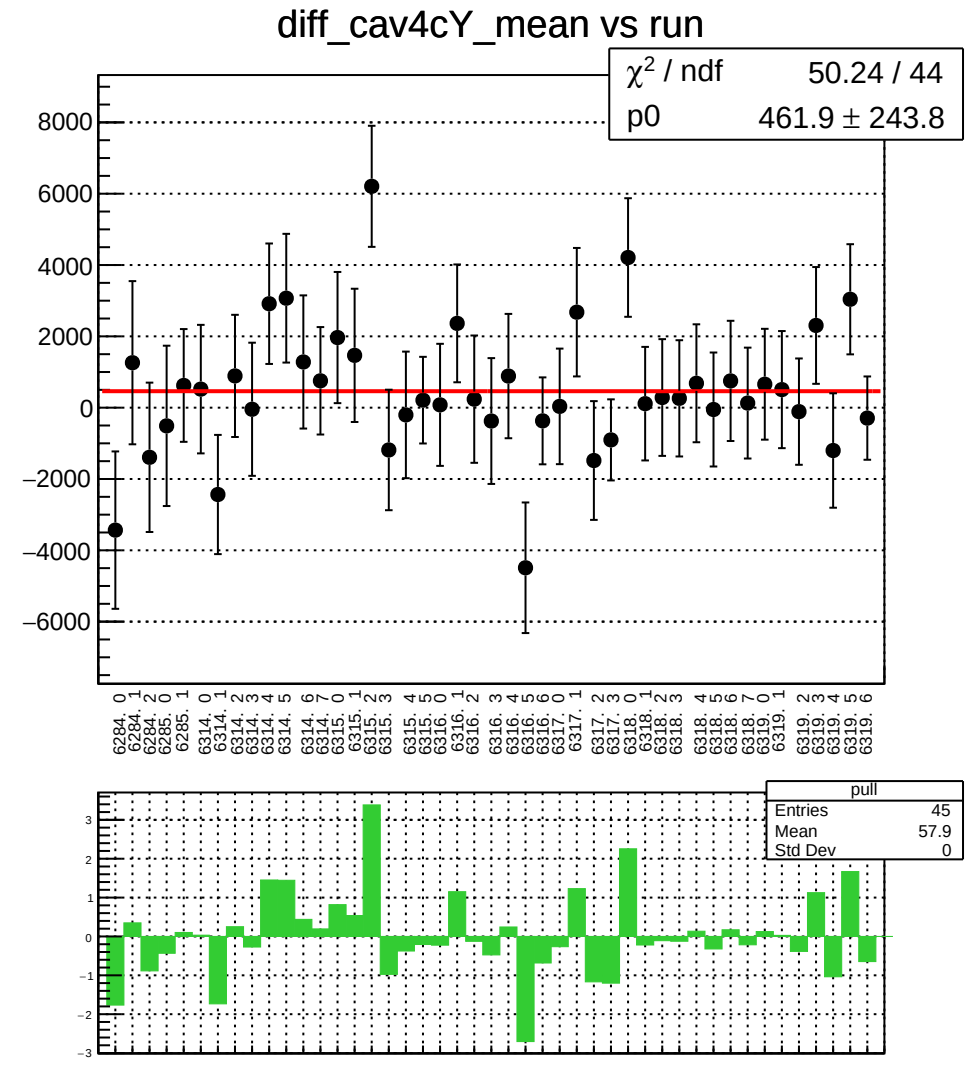

pull1D
Entries 45
Mean 0.01089
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

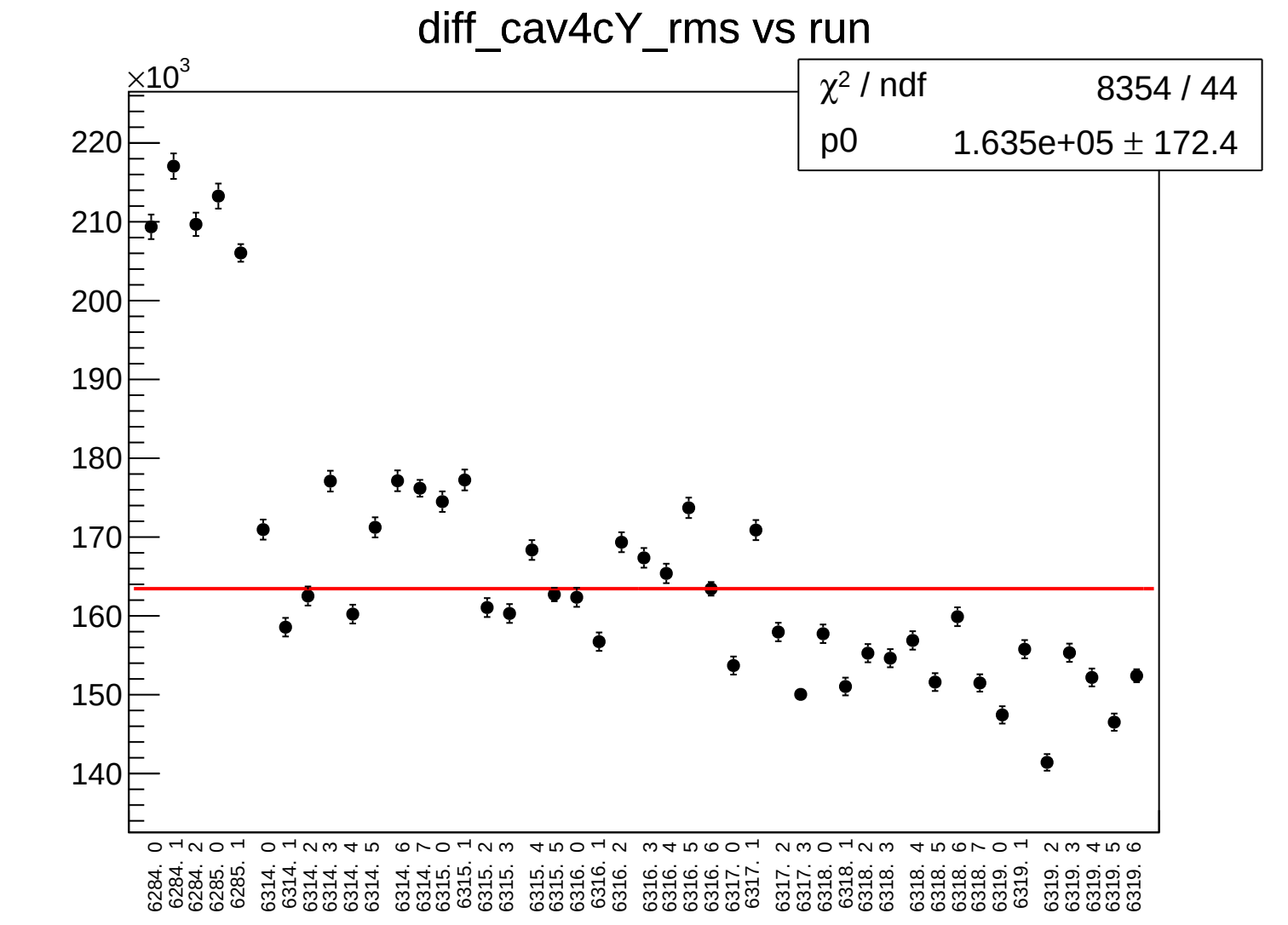

diff_cav4bY_rms vs run
×10^3
χ² / ndf 8650 / 44
p0 3.267e+05 ± 344.7
440
420
400
380
360
340
320
300
280
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

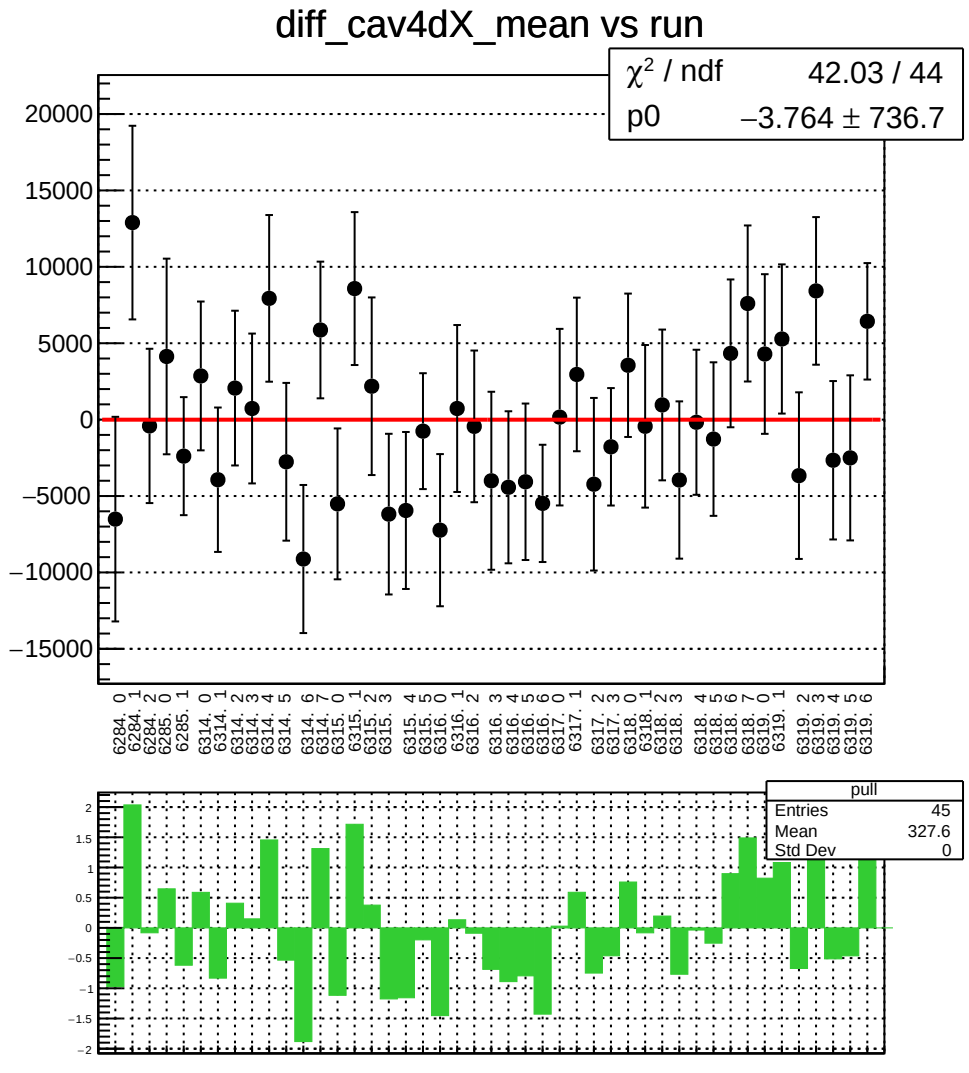

diff_cav4cX_mean vs run
χ² / ndf 42.03 / 44
p0 9.224 ± 884.4
pull
Entries 45
Mean 411.2
Std Dev 0

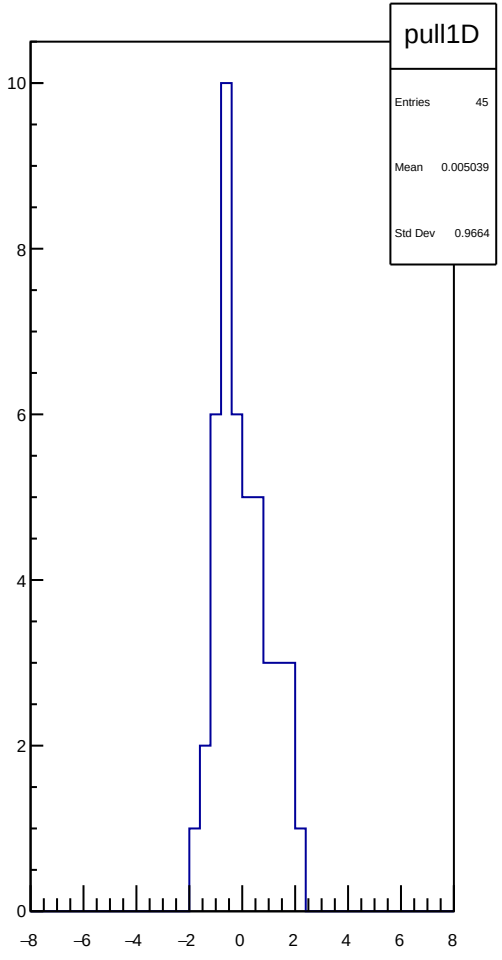

pull1D
Entries 45
Mean 0.004058
Std Dev 0.9664

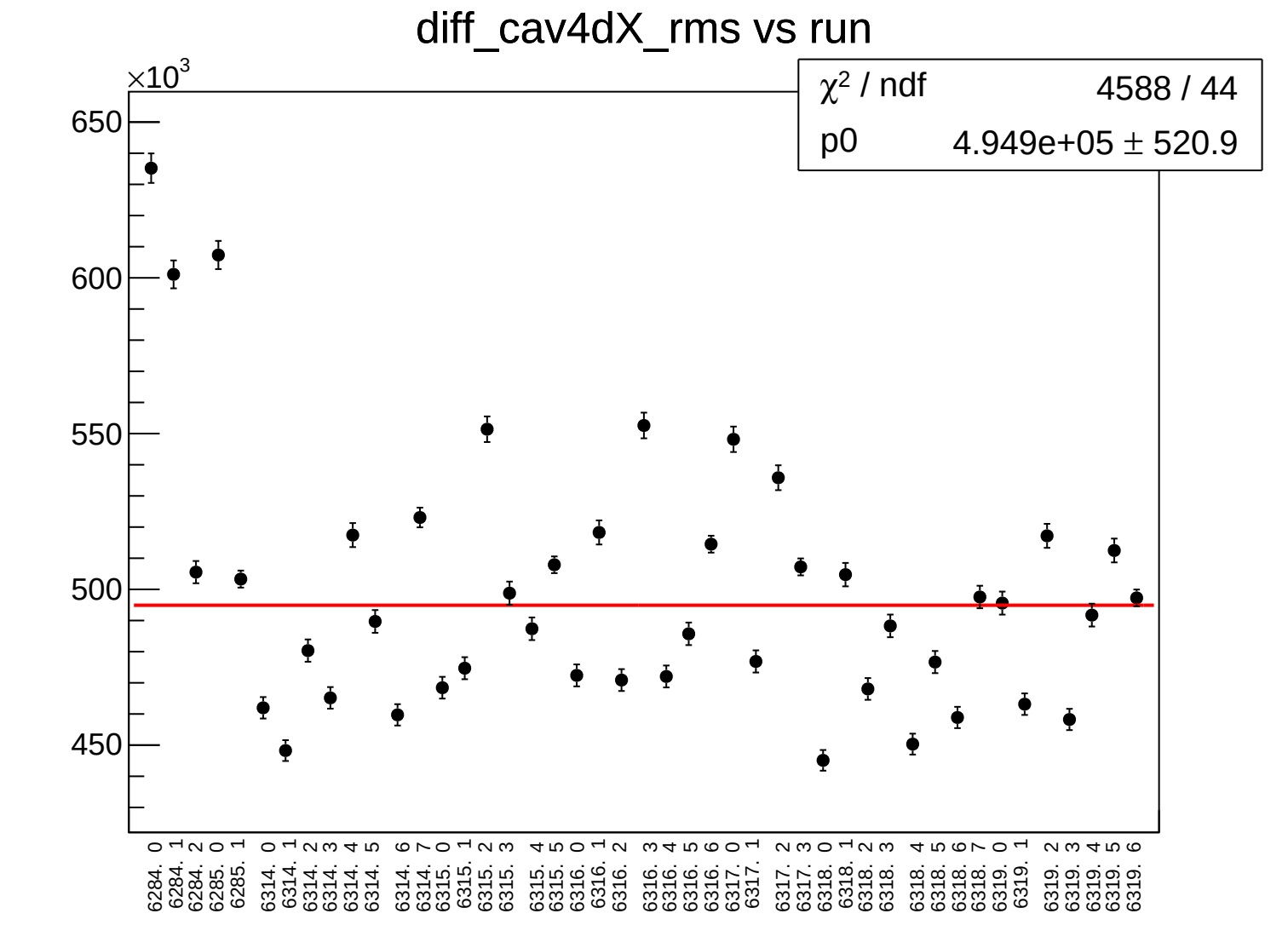

diff_cav4cX_rms vs run
×10^3
χ² / ndf 4568 / 44
p0 5.941e+05 ± 625.4
750
700
650
600
550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

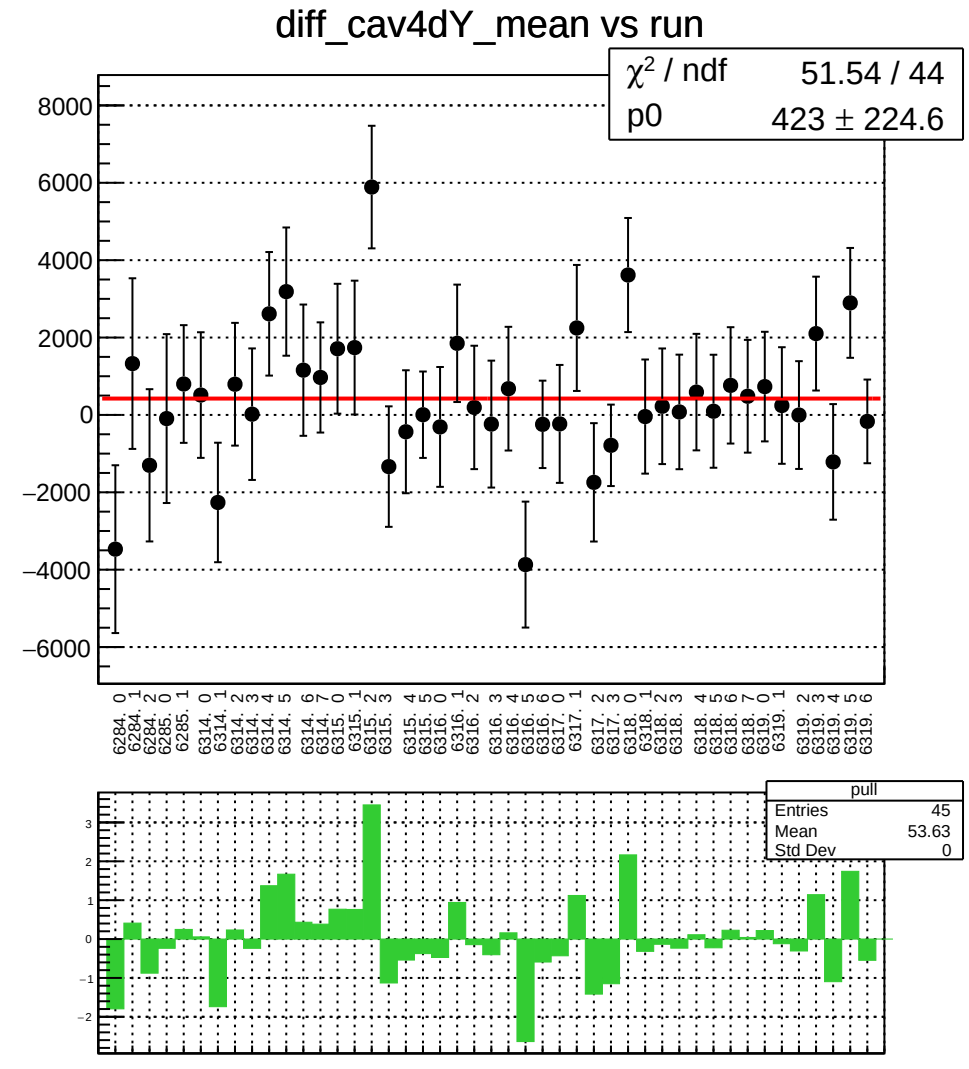

diff_cav4cY_mean vs run
χ² / ndf 50.24 / 44
p0 461.9 ± 243.8
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 57.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01337
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

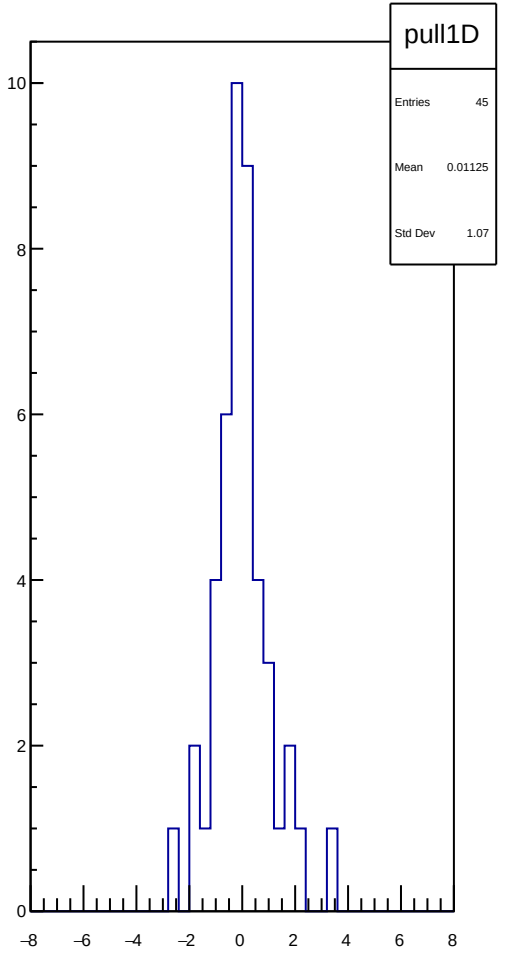

diff_cav4cY_rms vs run
×10^3
χ² / ndf 8354 / 44
p0 1.635e+05 ± 172.4
220
210
200
190
180
170
160
150
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

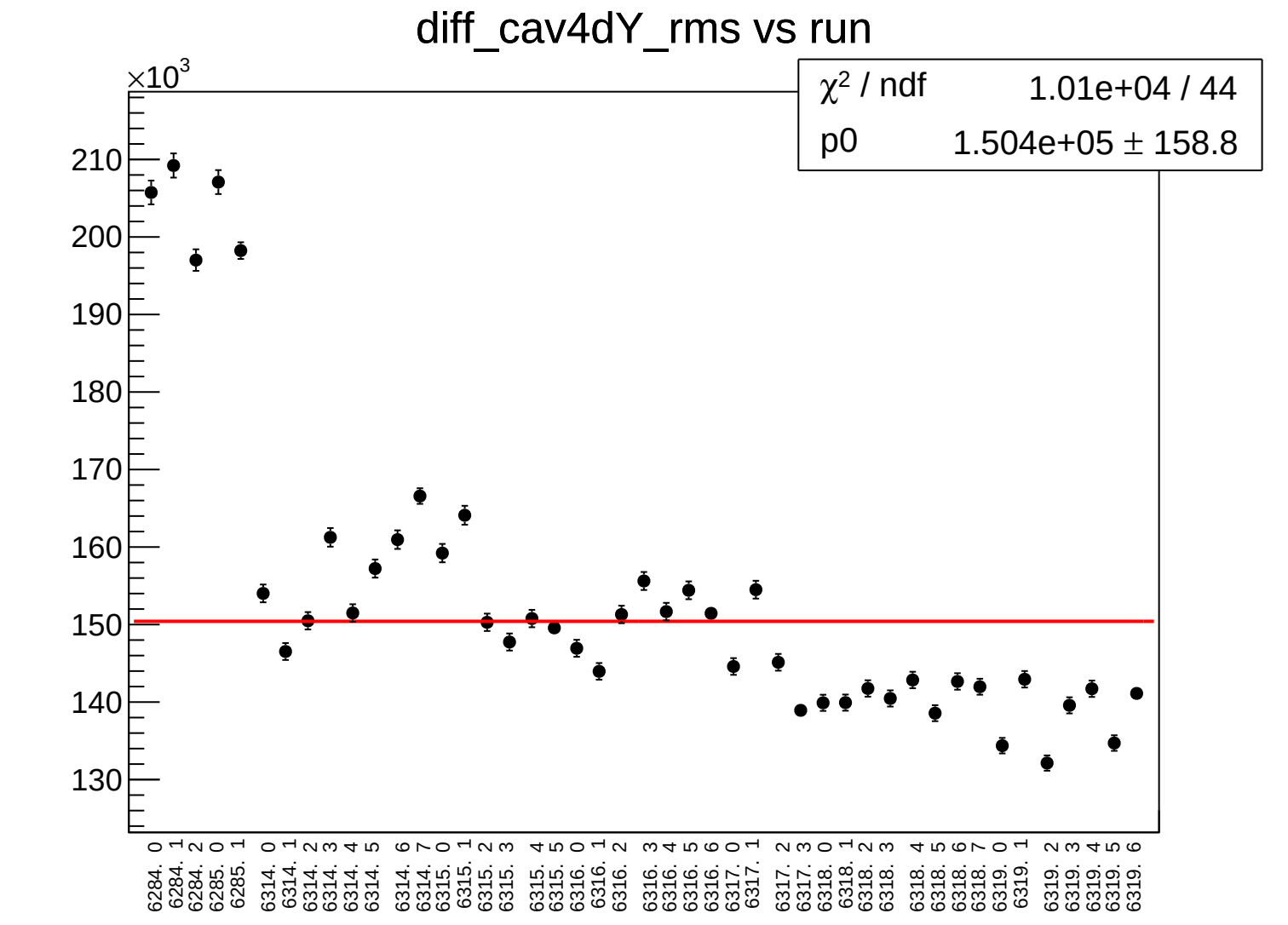

diff_cav4dX_mean vs run
χ² / ndf 42.03 / 44
p0 −3.764 ± 736.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 327.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

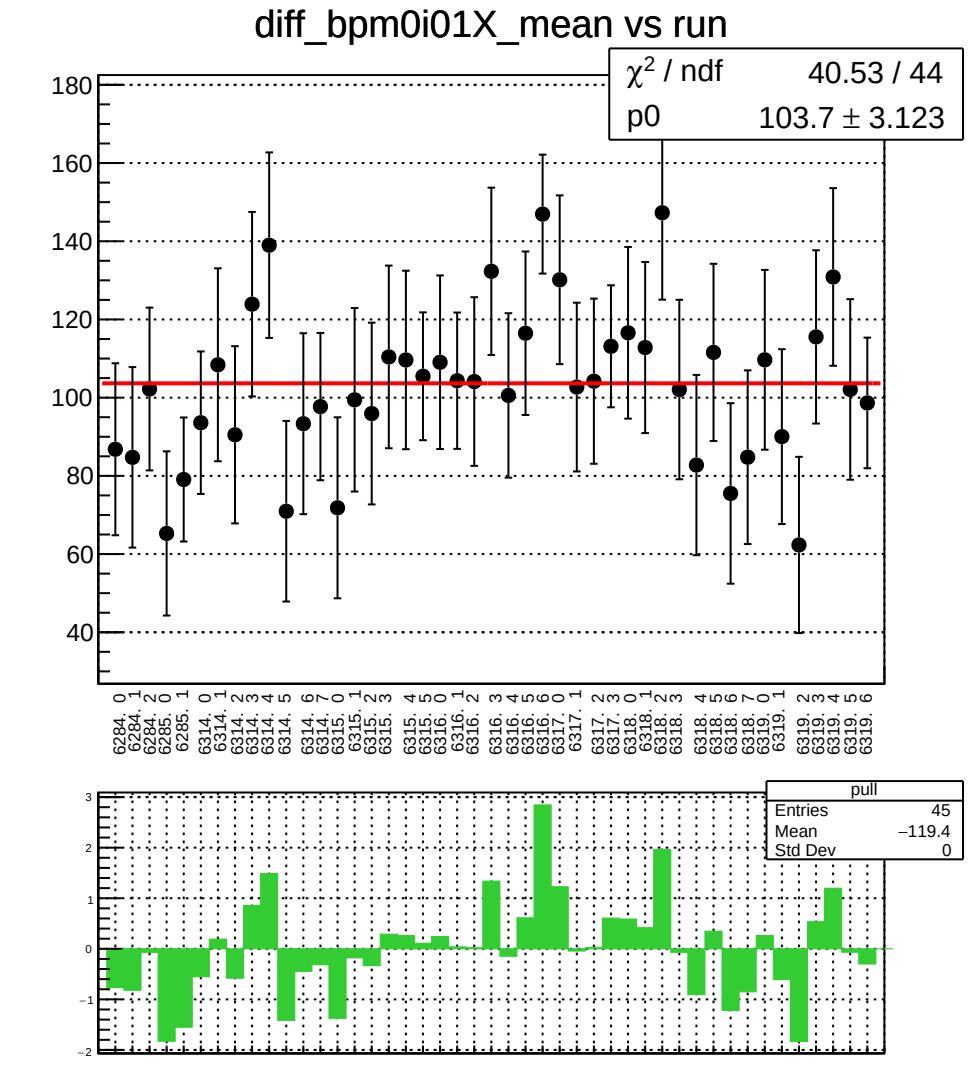

pull1D
Entries 45
Mean 0.005039
Std Dev 0.9664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

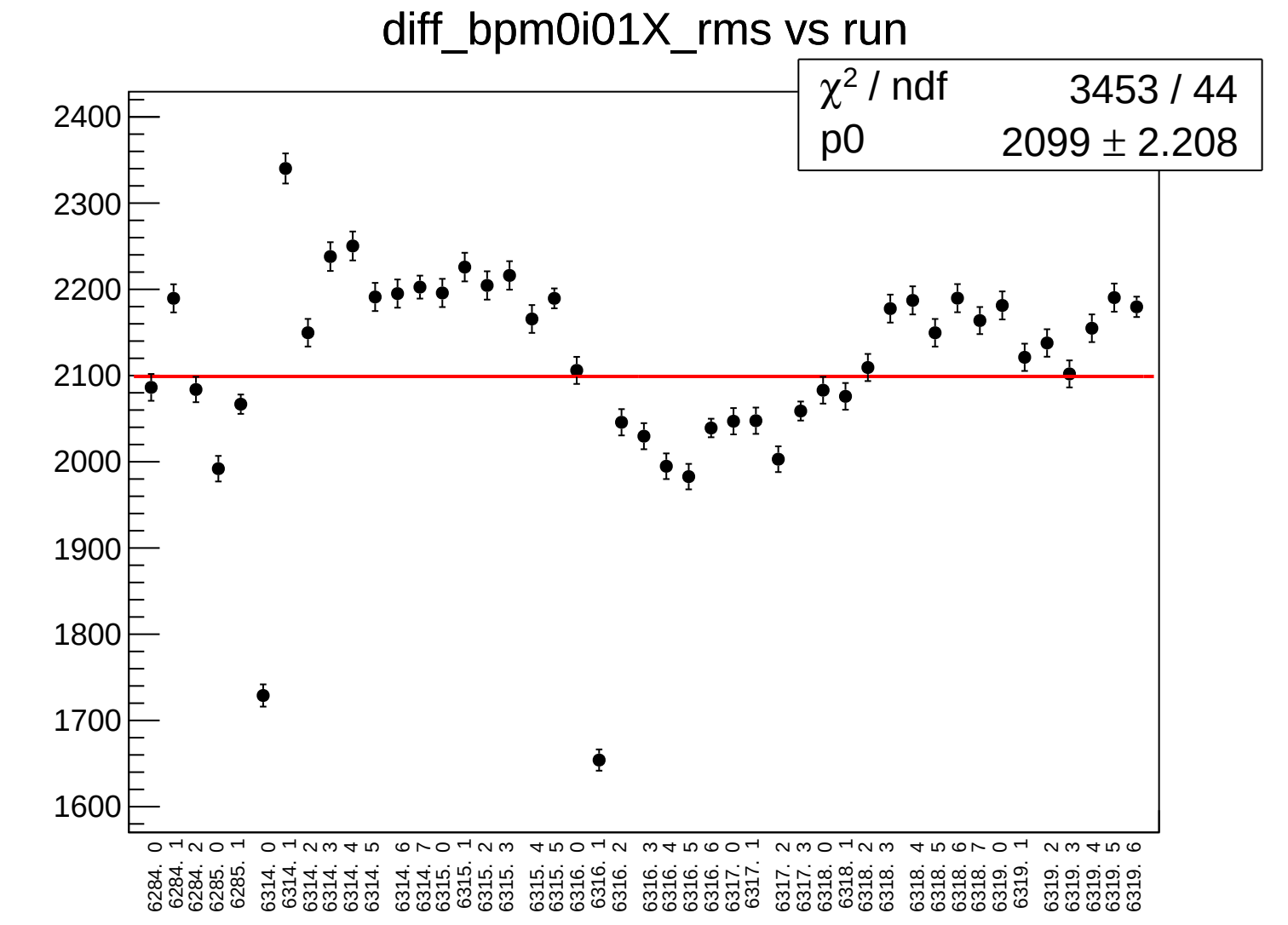

diff_cav4dX_rms vs run
×10^3
650
600
550
500
450
χ² / ndf 4588 / 44
p0 4.949e+05 ± 520.9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

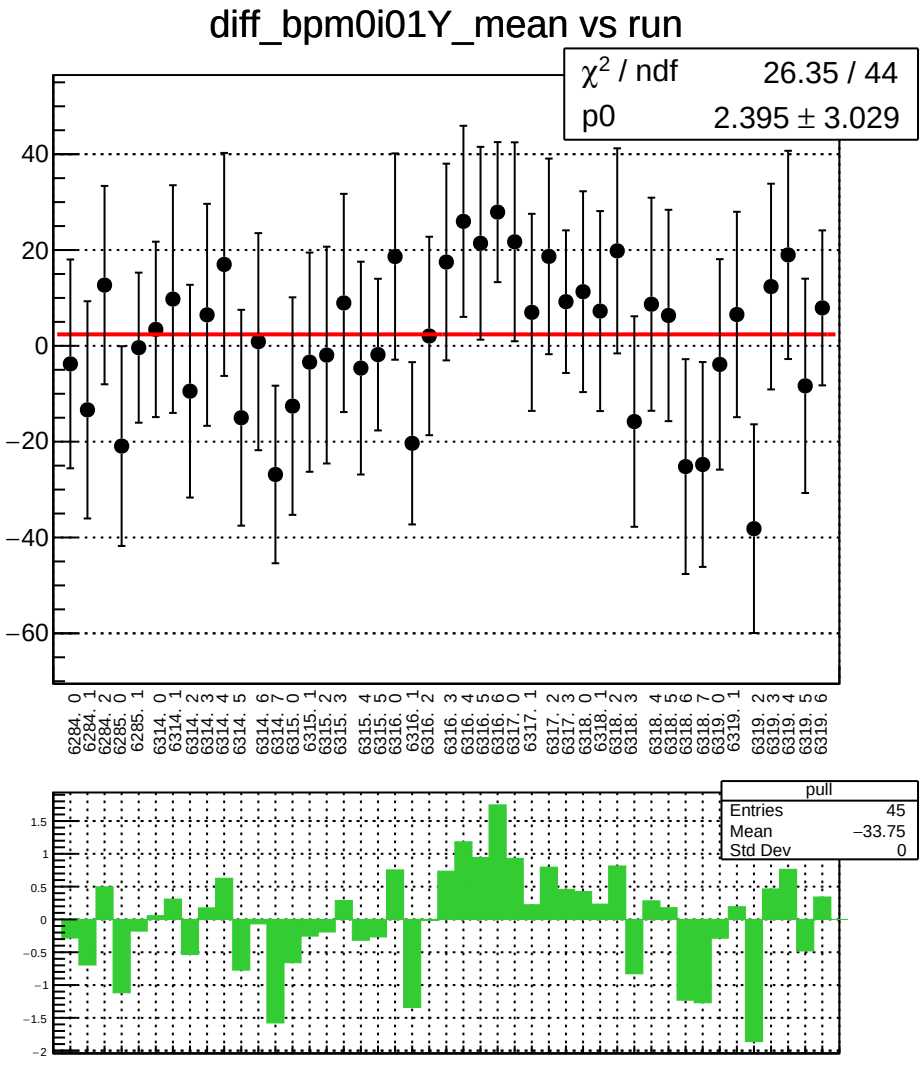

diff_cav4dY_mean vs run
χ² / ndf 51.54 / 44
p0 423 ± 224.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 53.63
Std Dev 0
3
2
1
0
−1
−2

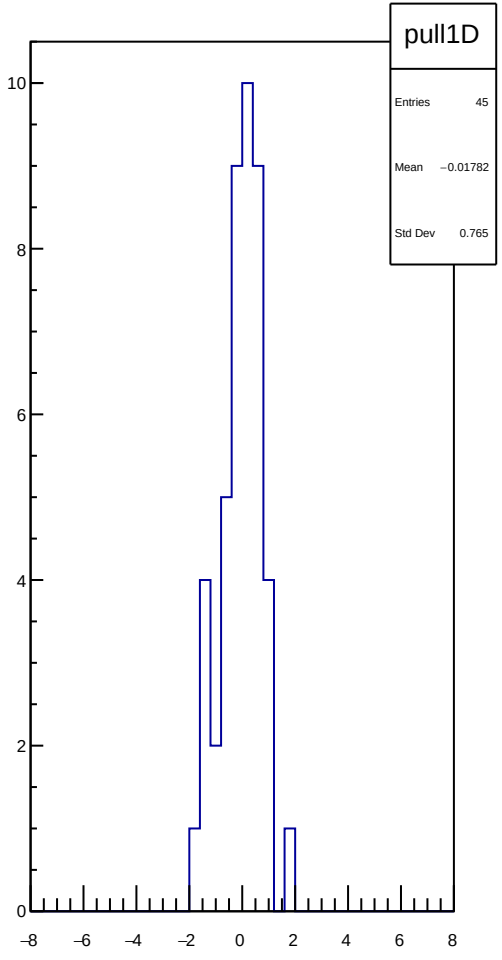

pull1D
Entries 45
Mean 0.01125
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

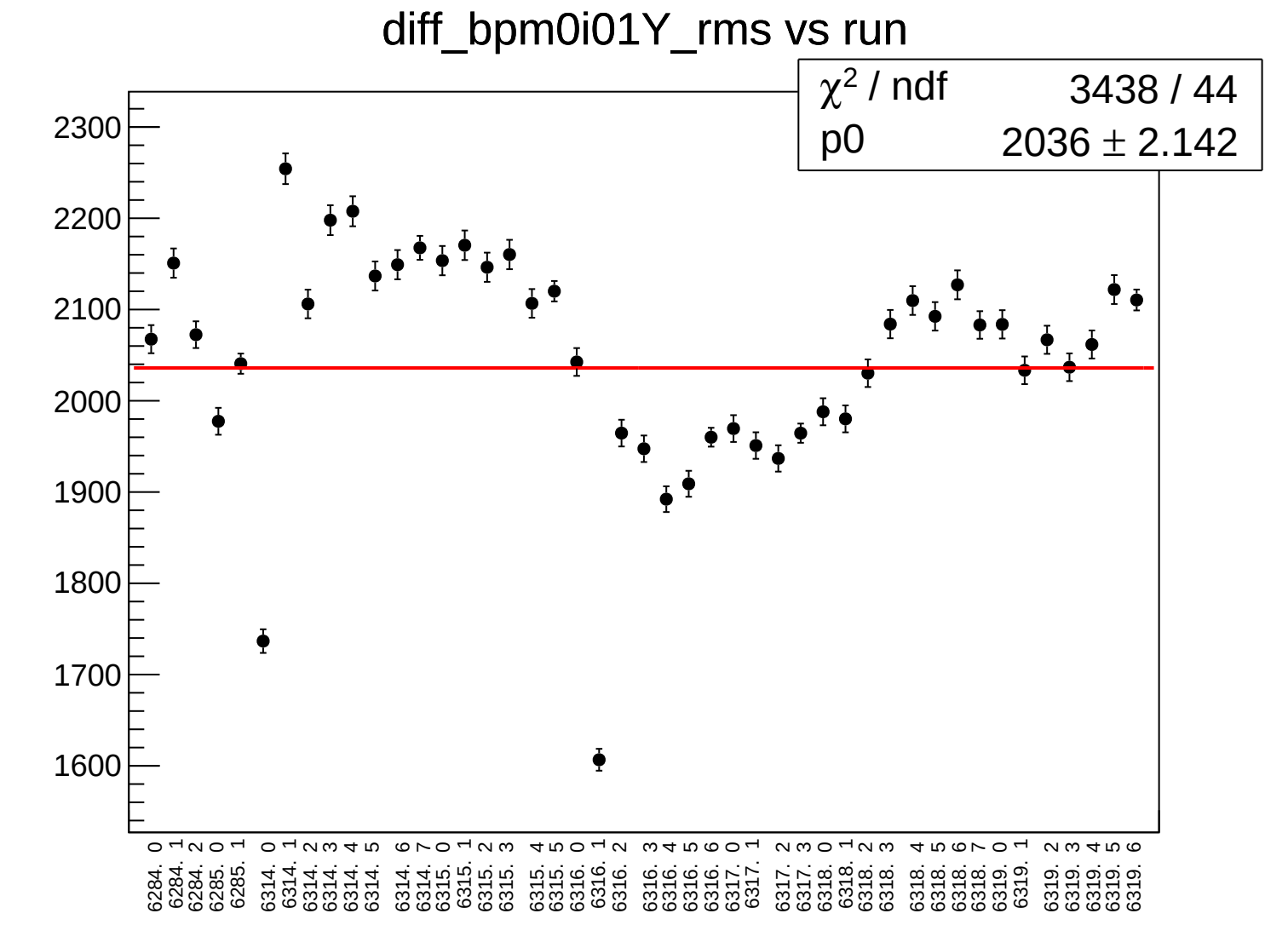

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.01e+04 / 44
p0 1.504e+05 ± 158.8
210
200
190
180
170
160
150
140
130
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

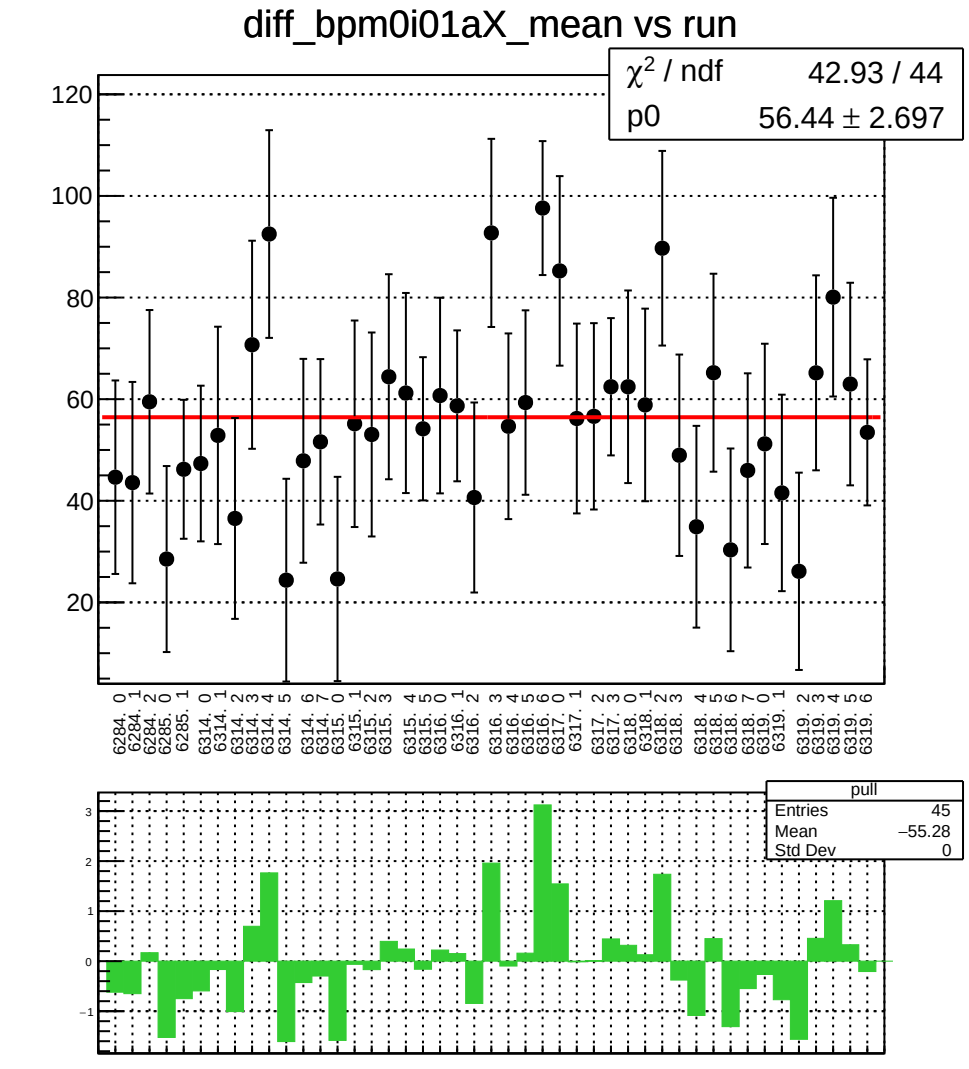

diff_bpm0i01X_mean vs run
χ² / ndf 40.53 / 44
p0 103.7 ± 3.123
pull
Entries 45
Mean −119.4
Std Dev 0
pull1D
Entries 45
Mean −0.01808
Std Dev 0.9489

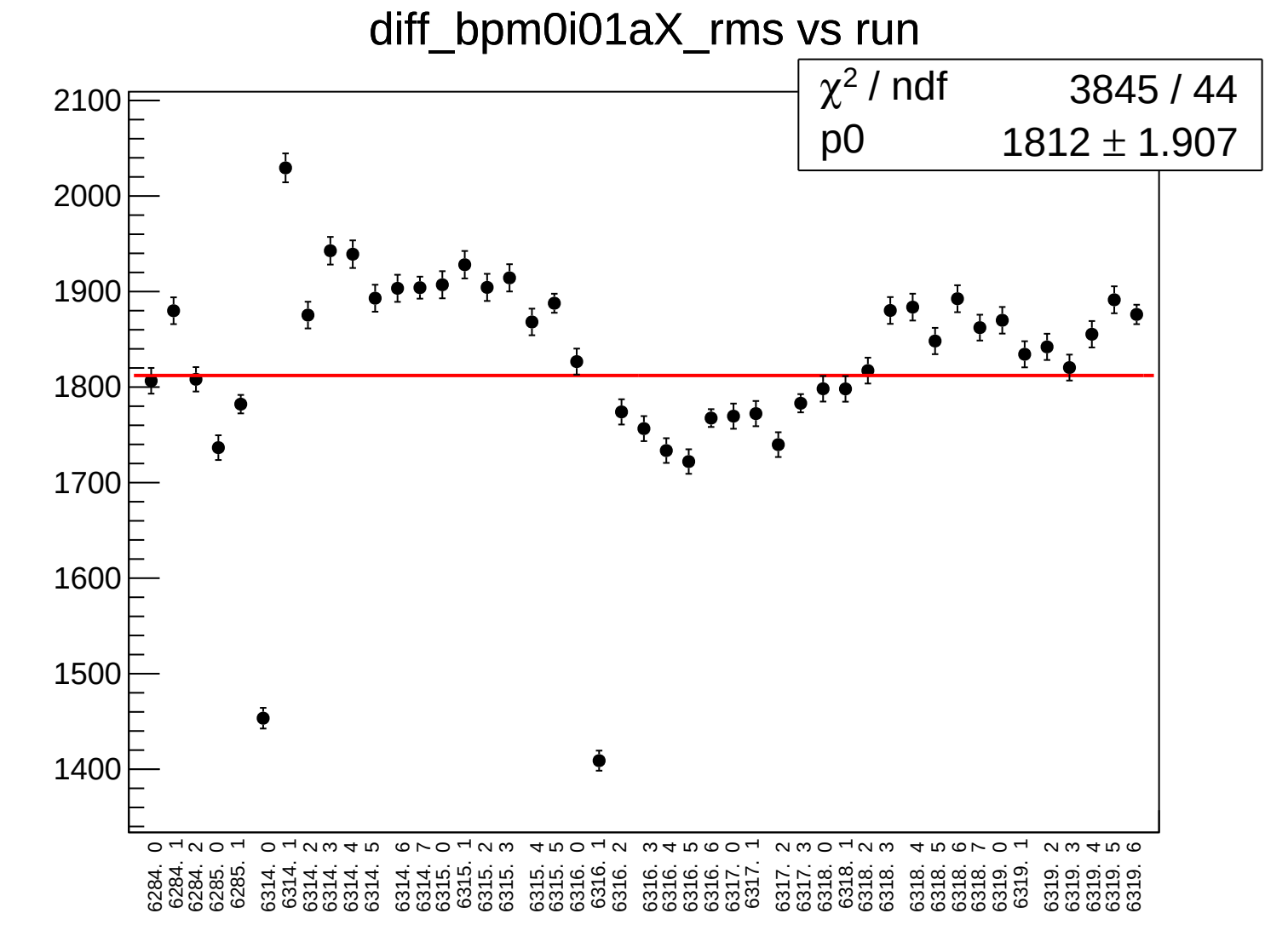

diff_bpm0i01X_rms vs run
χ² / ndf 3453 / 44
p0 2099 ± 2.208
2400
2300
2200
2100
2000
1900
1800
1700
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

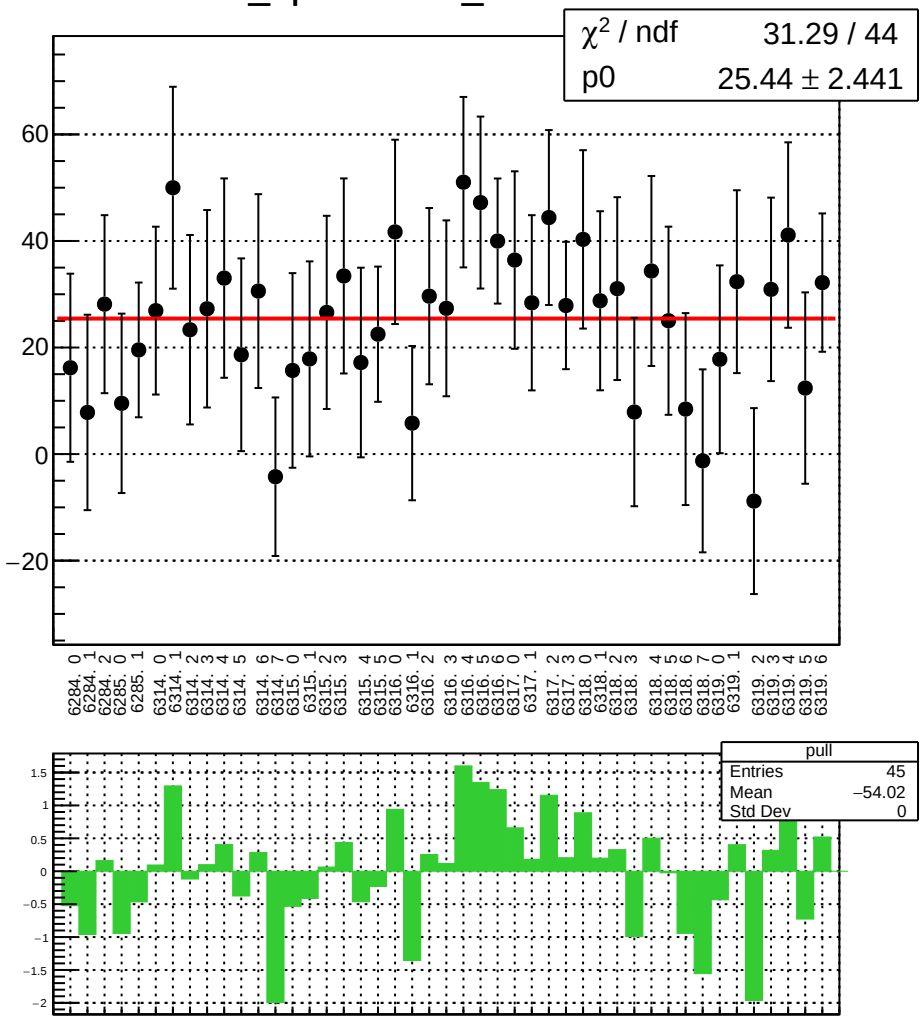

diff_bpm0i01Y_mean vs run
χ² / ndf 26.35 / 44
p0 2.395 ± 3.029
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −33.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

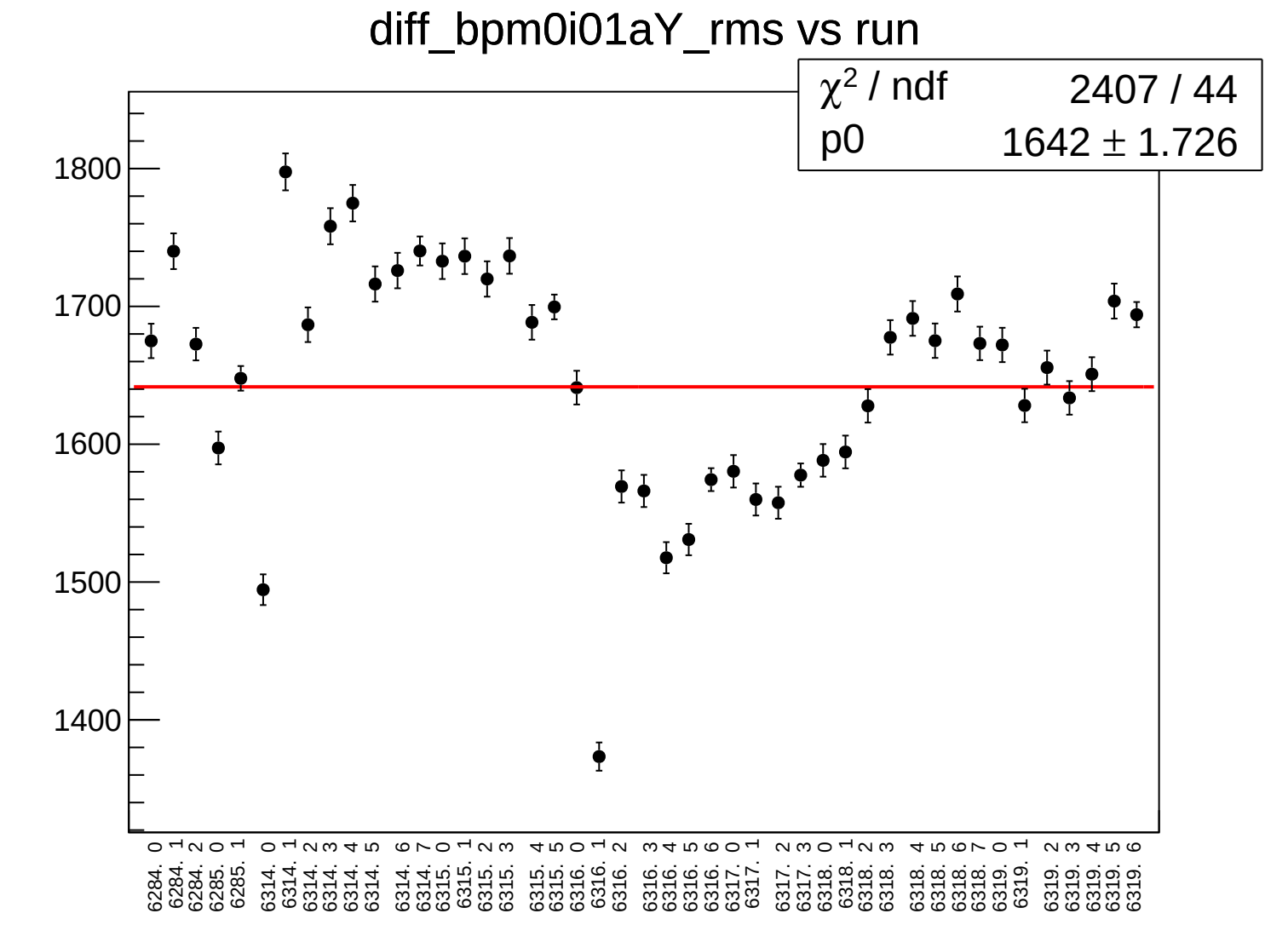

pull1D
Entries 45
Mean −0.01782
Std Dev 0.765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

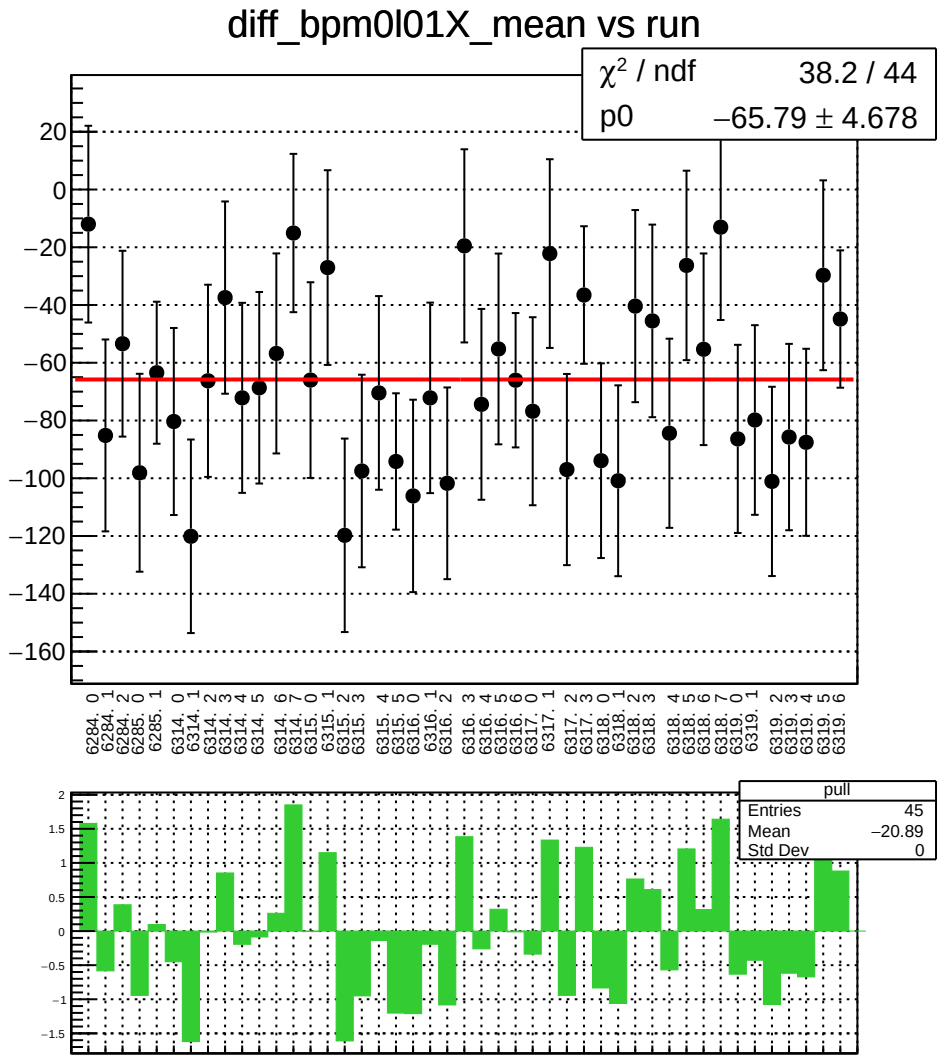

diff_bpm0i01Y_rms vs run
χ² / ndf 3438 / 44
p0 2036 ± 2.142
2300
2200
2100
2000
1900
1800
1700
1600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

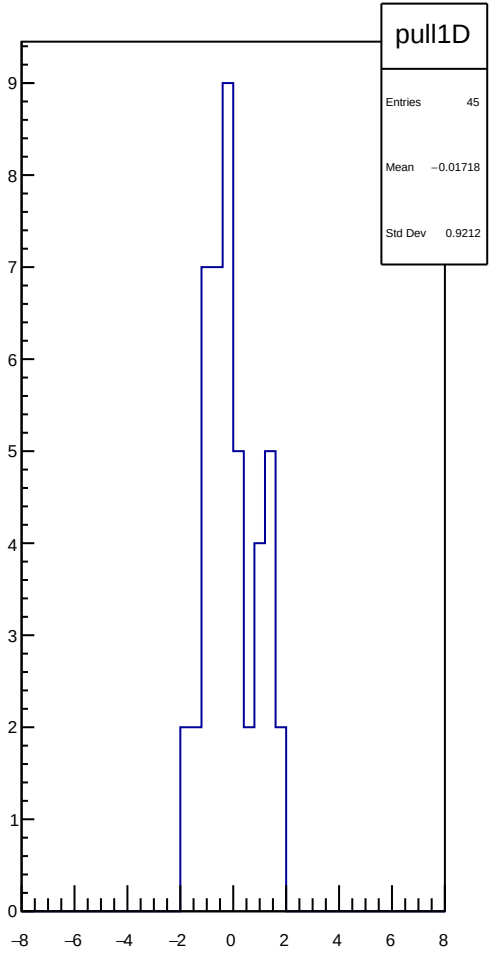

diff_bpm0i01aX_mean vs run
χ² / ndf 42.93 / 44
p0 56.44 ± 2.697
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −55.28
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean −0.02661
Std Dev 0.9764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

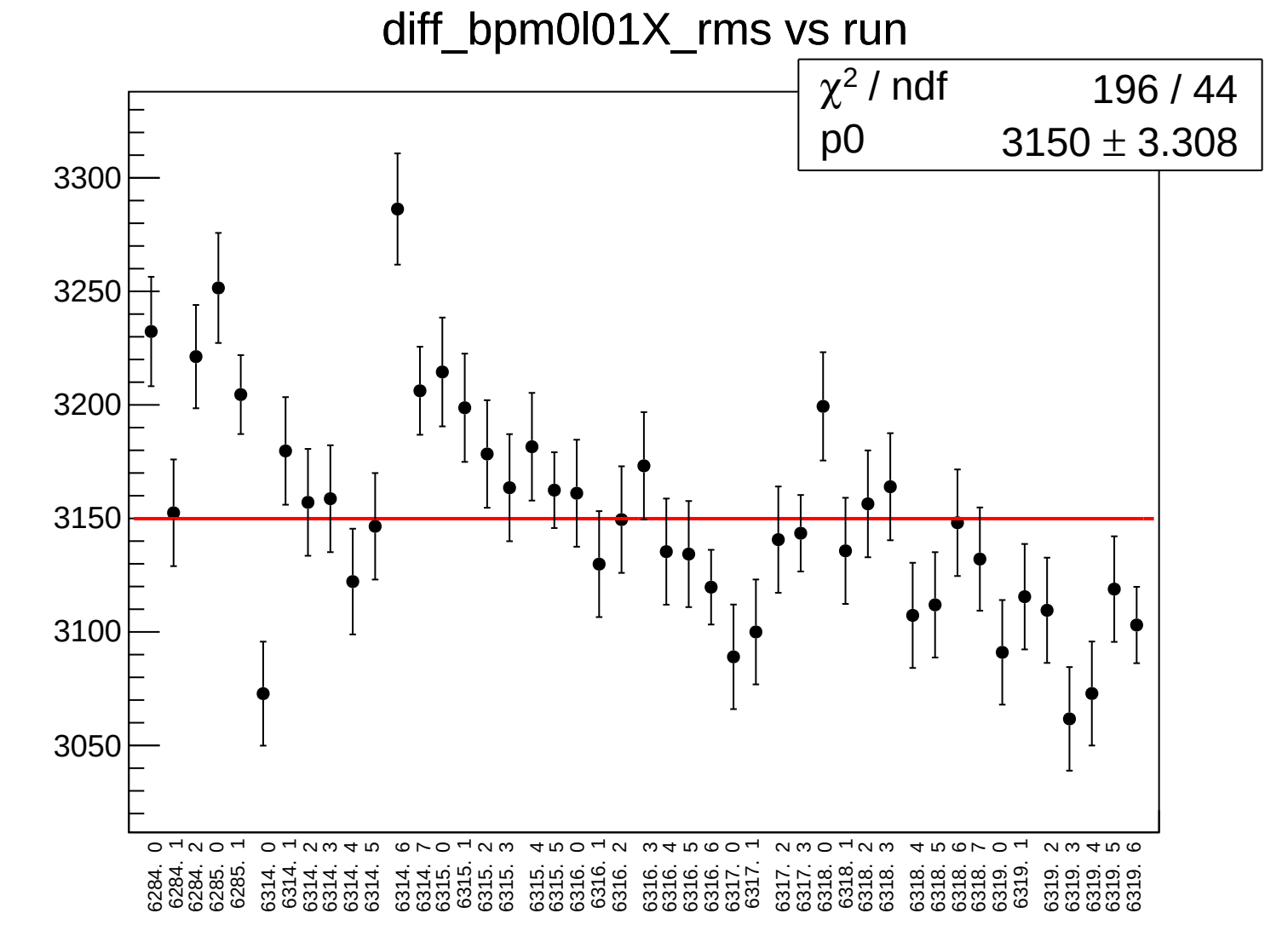

diff_bpm0i01aX_rms vs run
χ² / ndf 3845 / 44
p0 1812 ± 1.907
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

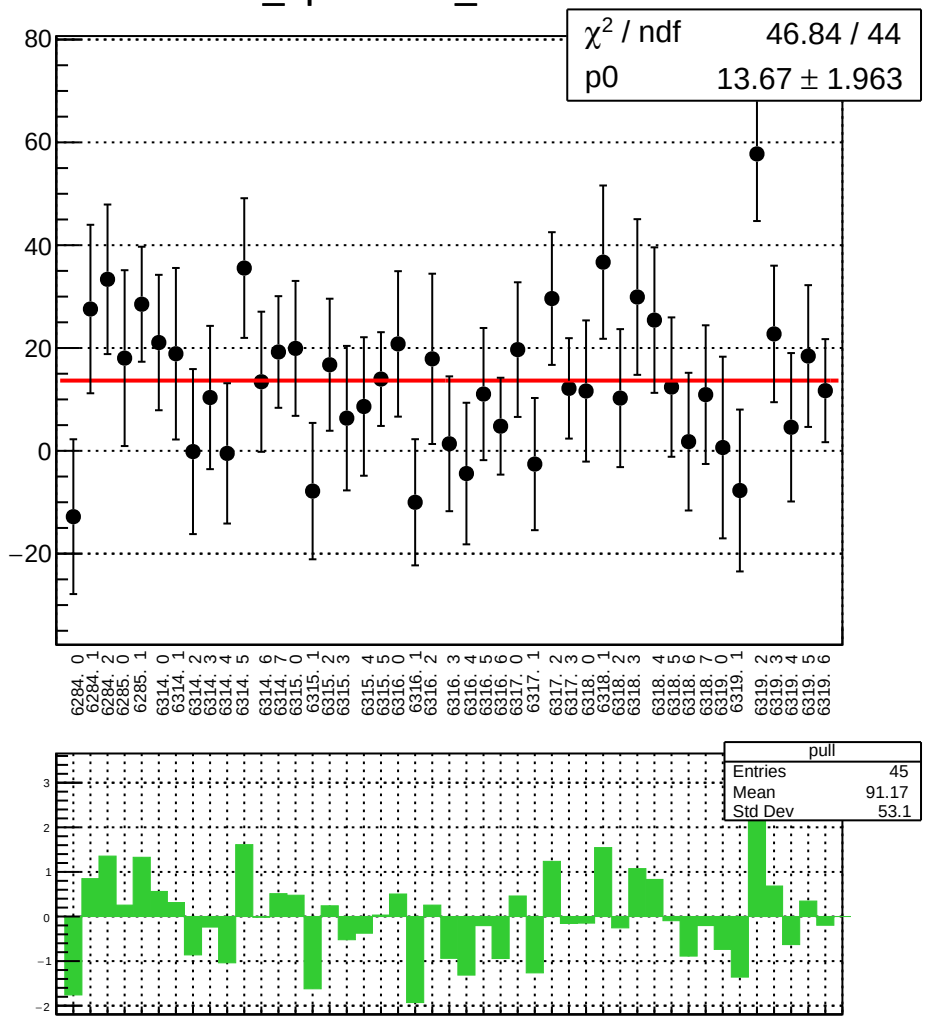

diff_bpm0i01aY_mean vs run
χ² / ndf 31.29 / 44
p0 25.44 ± 2.441
60
40
20
0
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −54.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009286
Std Dev 0.8338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

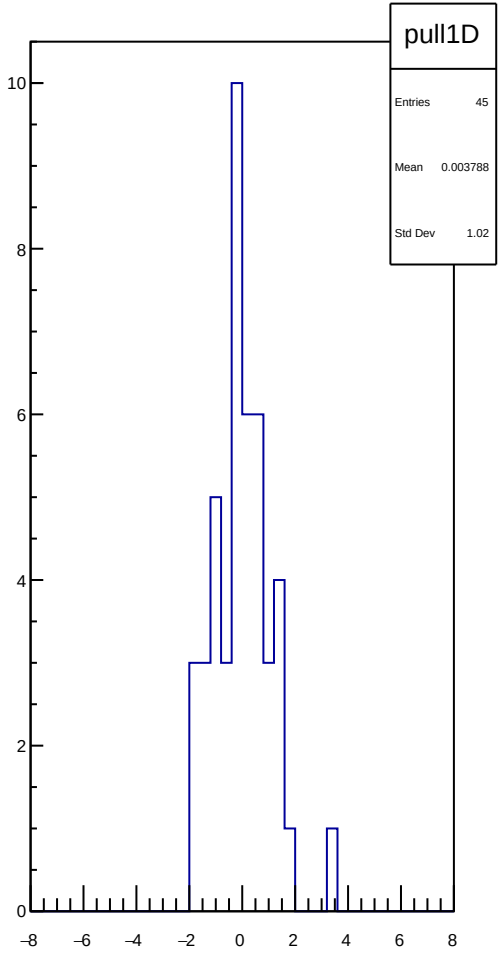

diff_bpm0i01aY_rms vs run
χ² / ndf 2407 / 44
p0 1642 ± 1.726
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

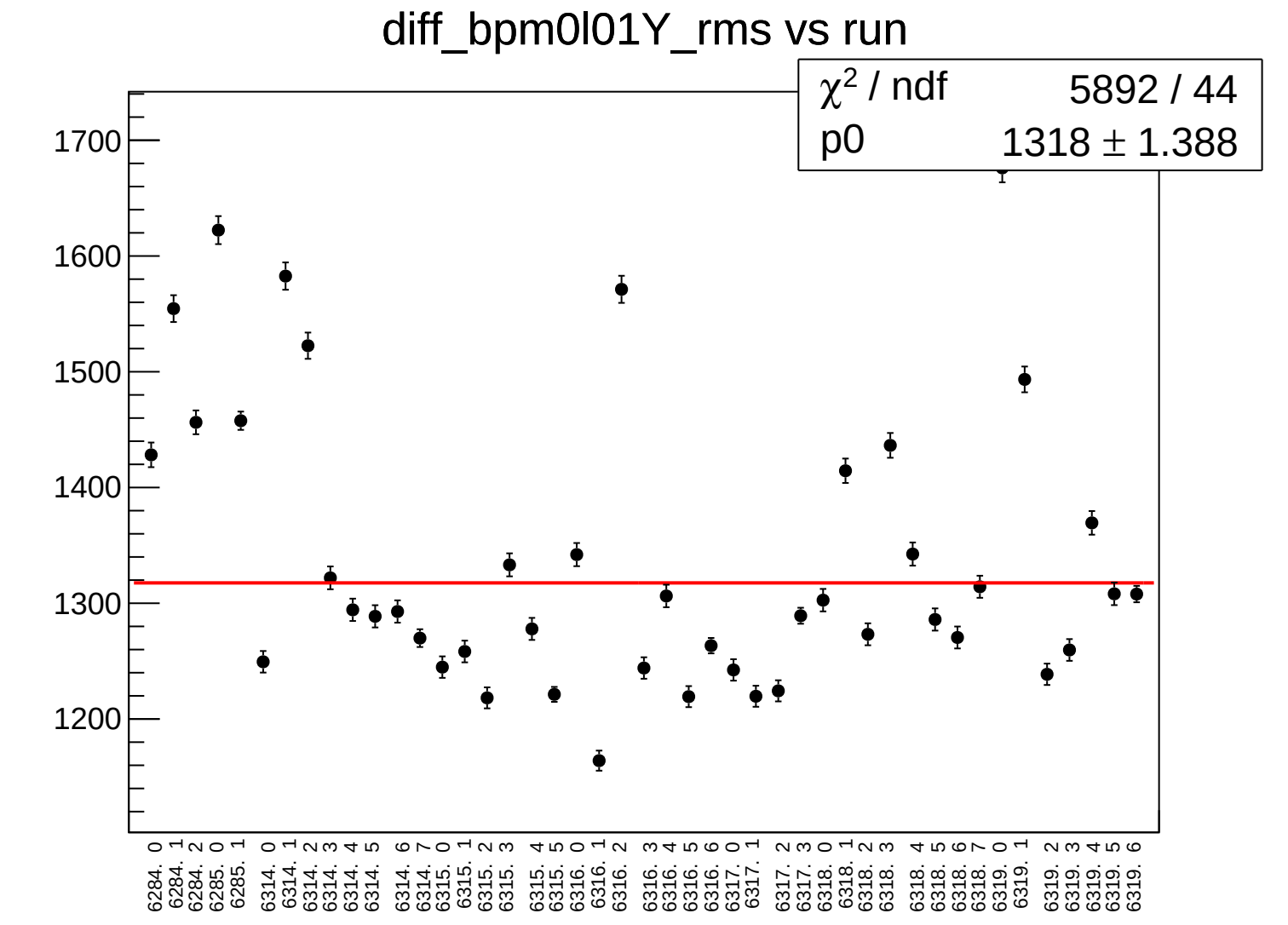

diff_bpm0l01X_mean vs run
χ² / ndf 38.2 / 44
p0 −65.79 ± 4.678
pull
Entries 45
Mean −20.89
Std Dev 0

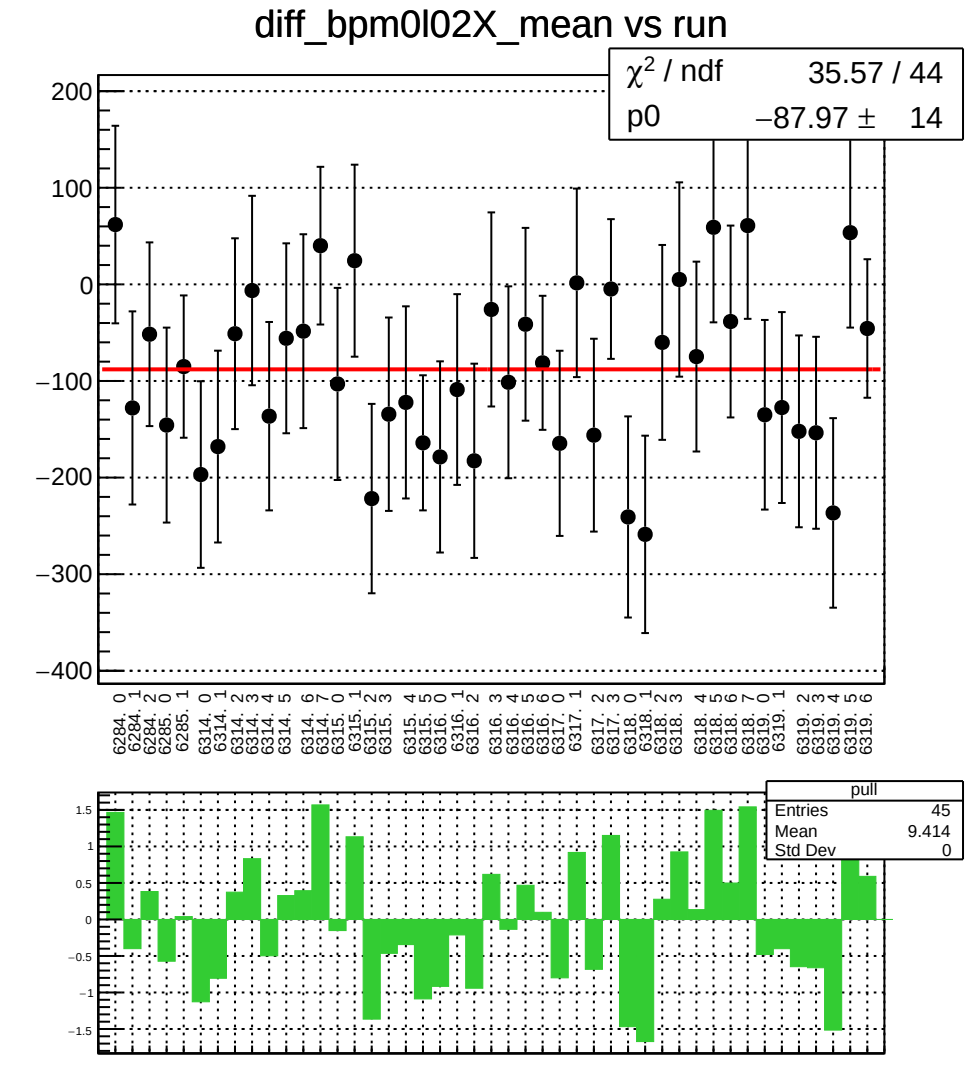

pull1D
Entries 45
Mean −0.01718
Std Dev 0.9212

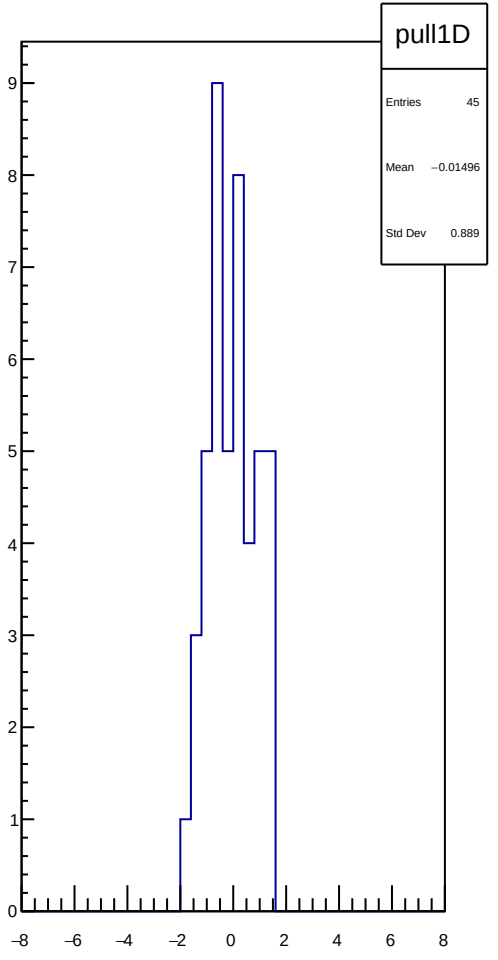

diff_bpm0l01X_rms vs run
χ² / ndf 196 / 44
p0 3150 ± 3.308
3300
3250
3200
3150
3100
3050
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

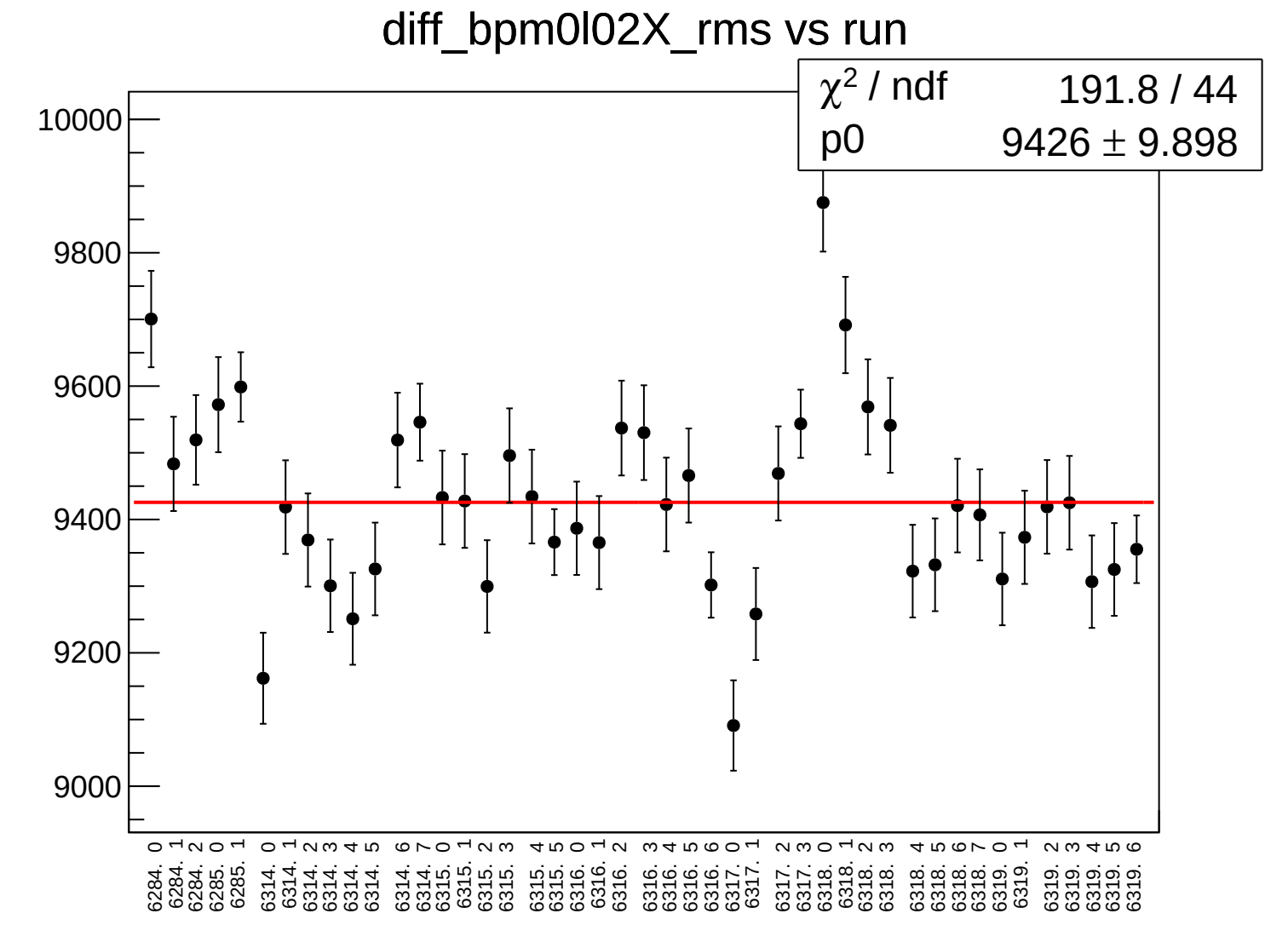

diff_bpm0l01Y_mean vs run
χ^2 / ndf 46.84 / 44
p0 13.67 ± 1.963
pull
Entries 45
Mean 91.17
Std Dev 53.1

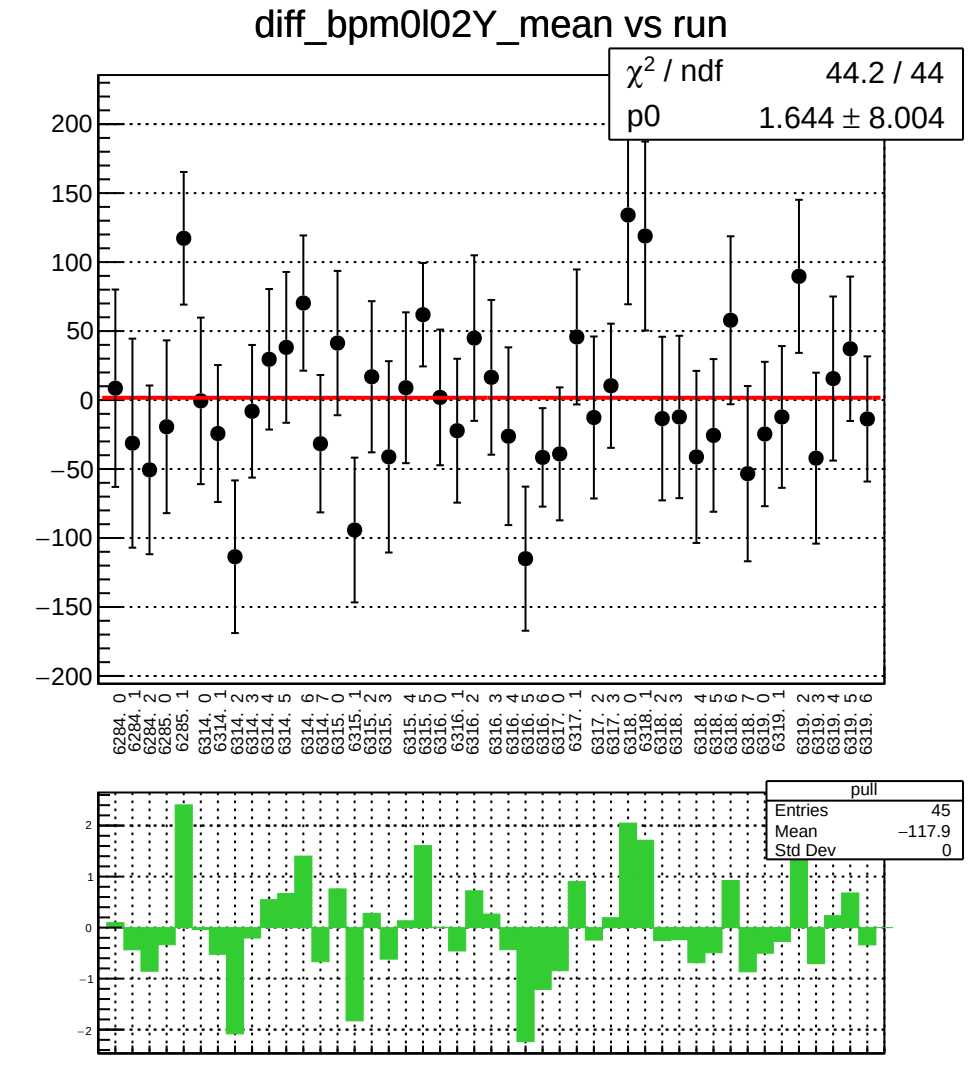

pull1D
Entries 45
Mean 0.003788
Std Dev 1.02

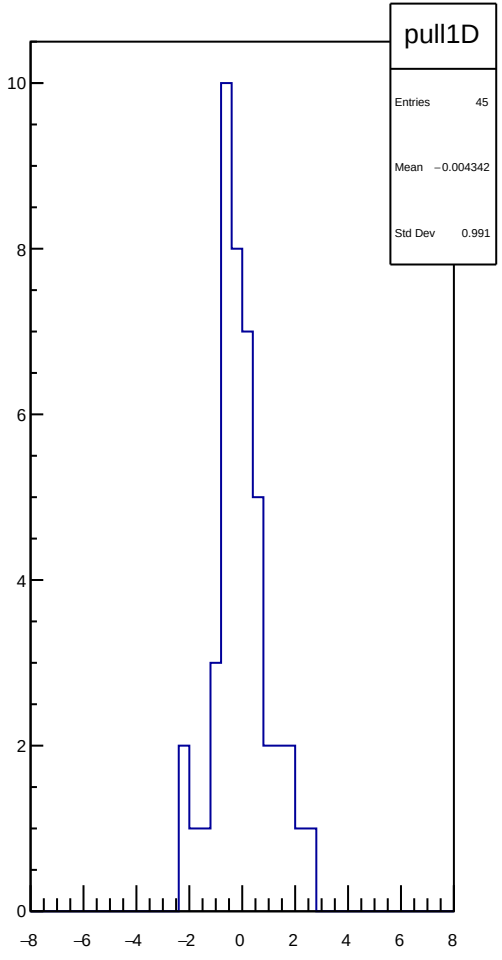

diff_bpm0l01Y_rms vs run
χ² / ndf 5892 / 44
p0 1318 ± 1.388
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

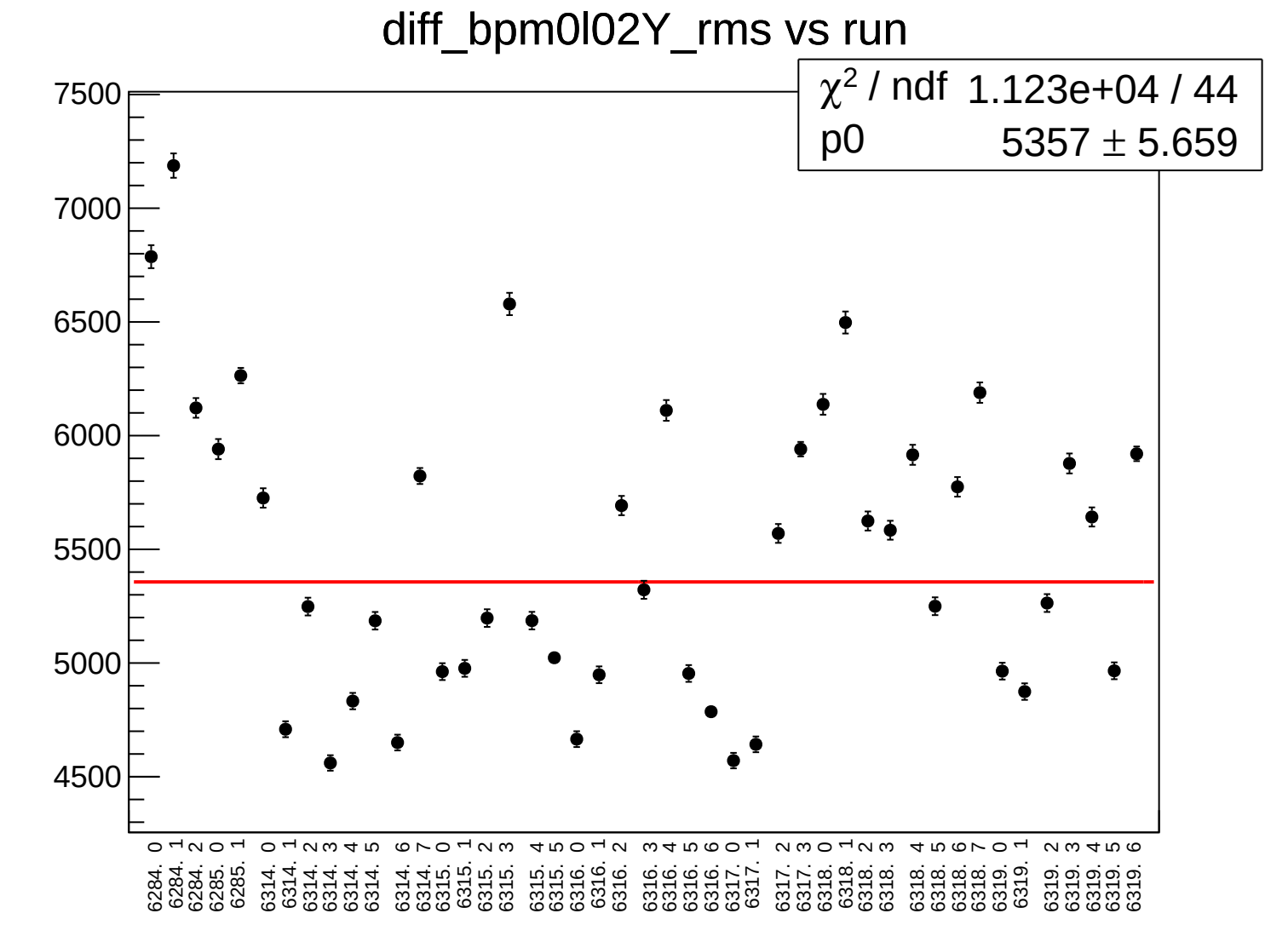

diff_bpm0l02X_mean vs run
χ² / ndf 35.57 / 44
p0 −87.97 ± 14
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 9.414
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

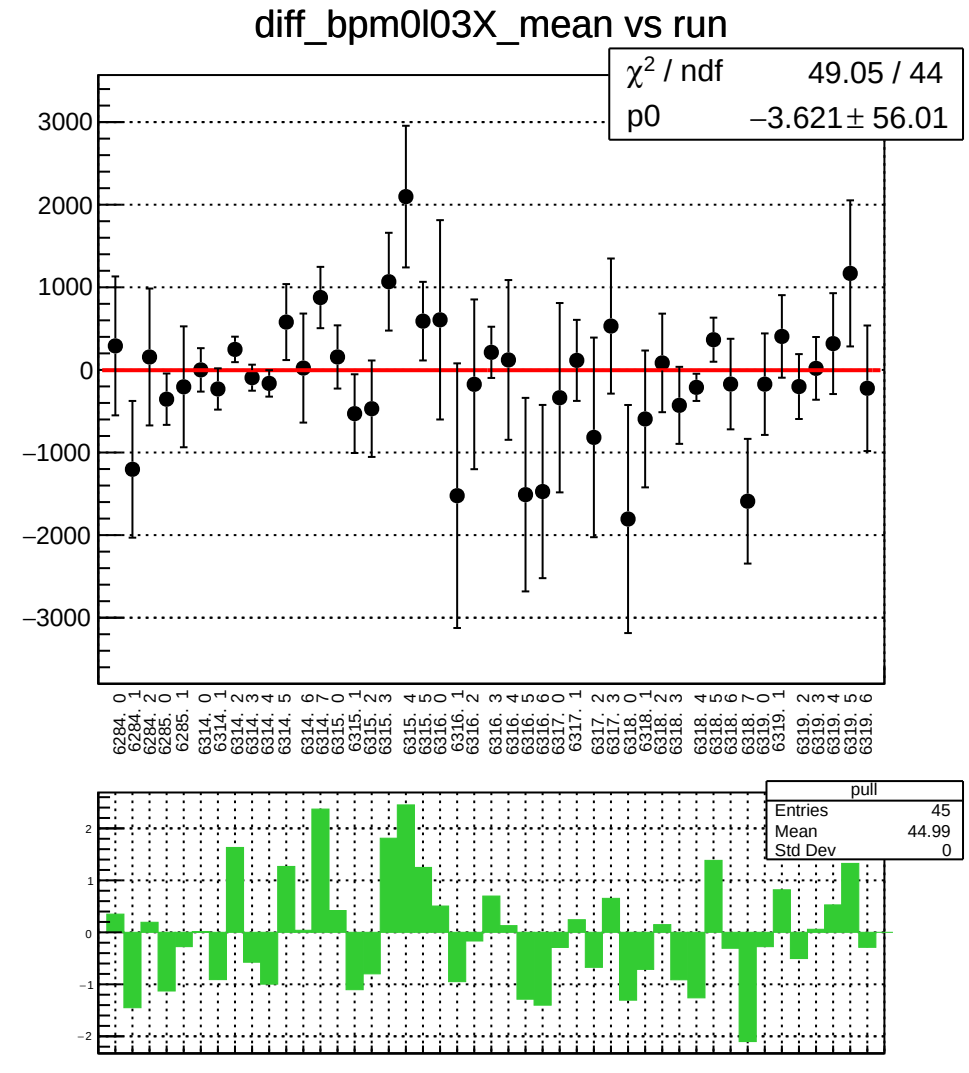

pull1D
Entries 45
Mean −0.01496
Std Dev 0.889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

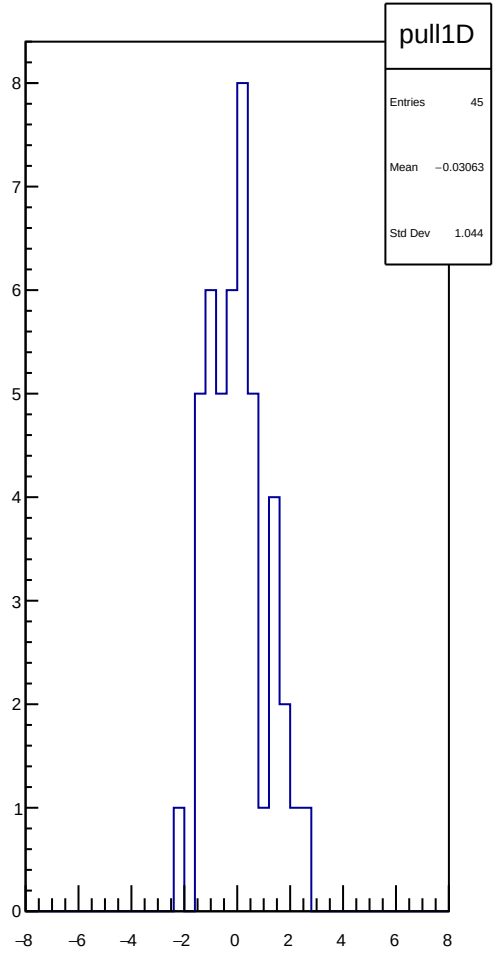

diff_bpm0l02X_rms vs run
χ² / ndf 191.8 / 44
p0 9426 ± 9.898
10000
9800
9600
9400
9200
9000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

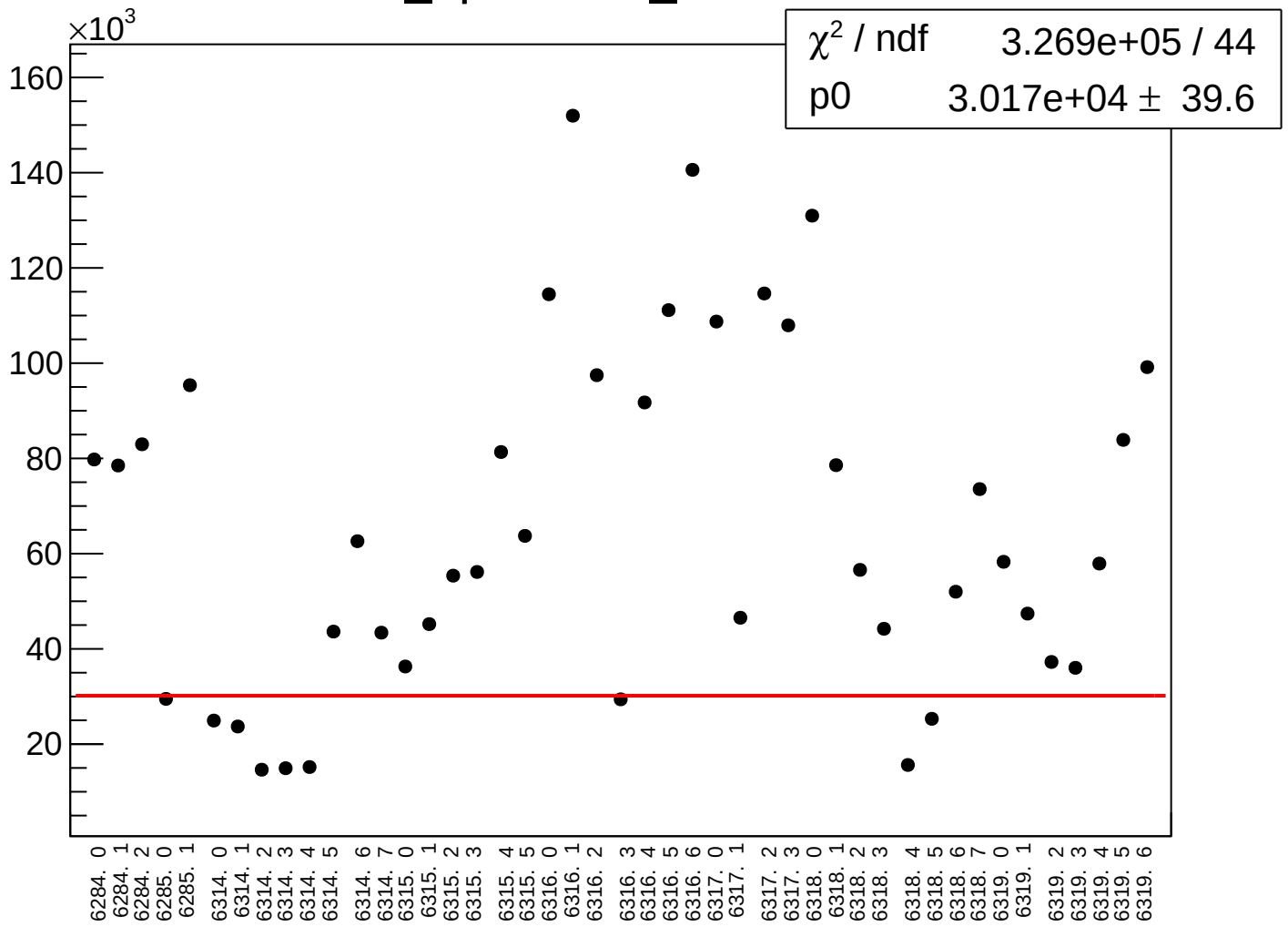

diff_bpm0l02Y_mean vs run
χ² / ndf 44.2 / 44
p0 1.644 ± 8.004
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −117.9
Std Dev 0
2
1
0
−1
−2

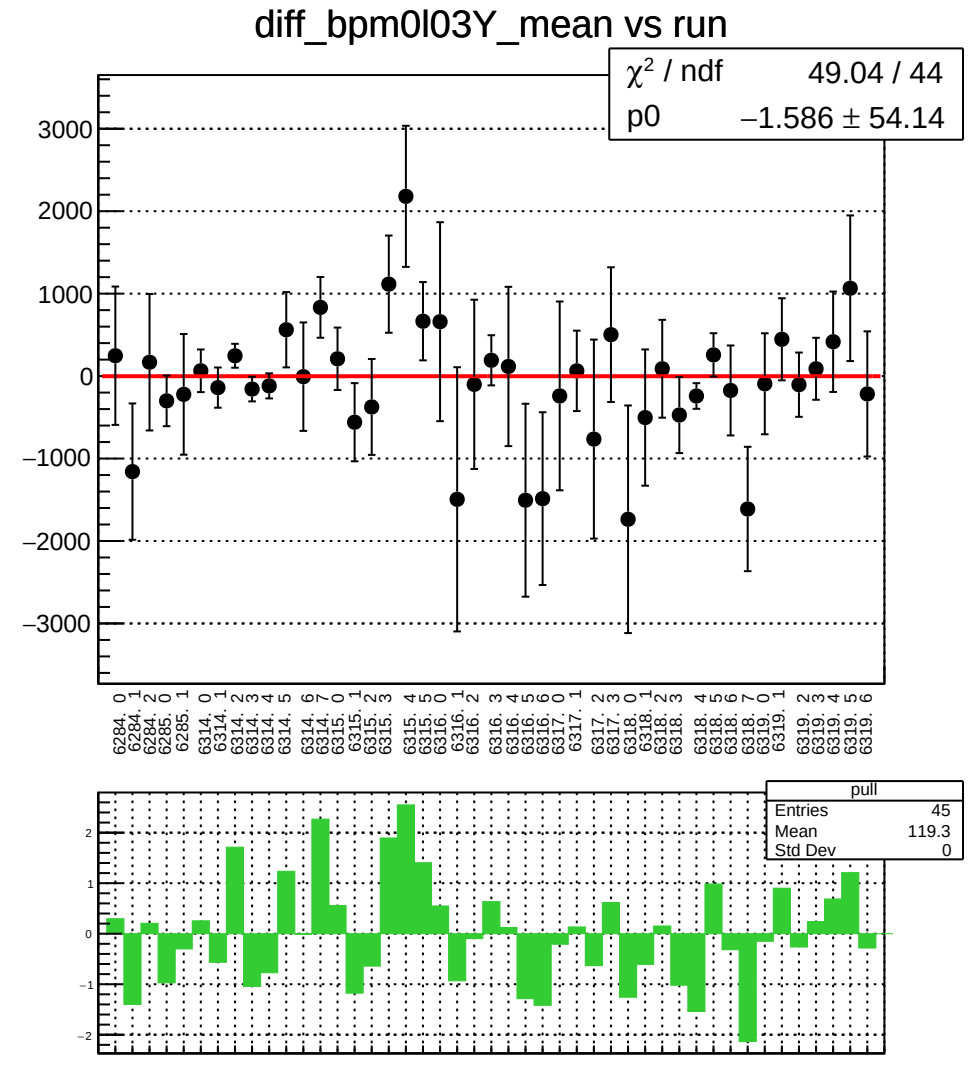

pull1D
Entries 45
Mean −0.004342
Std Dev 0.991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

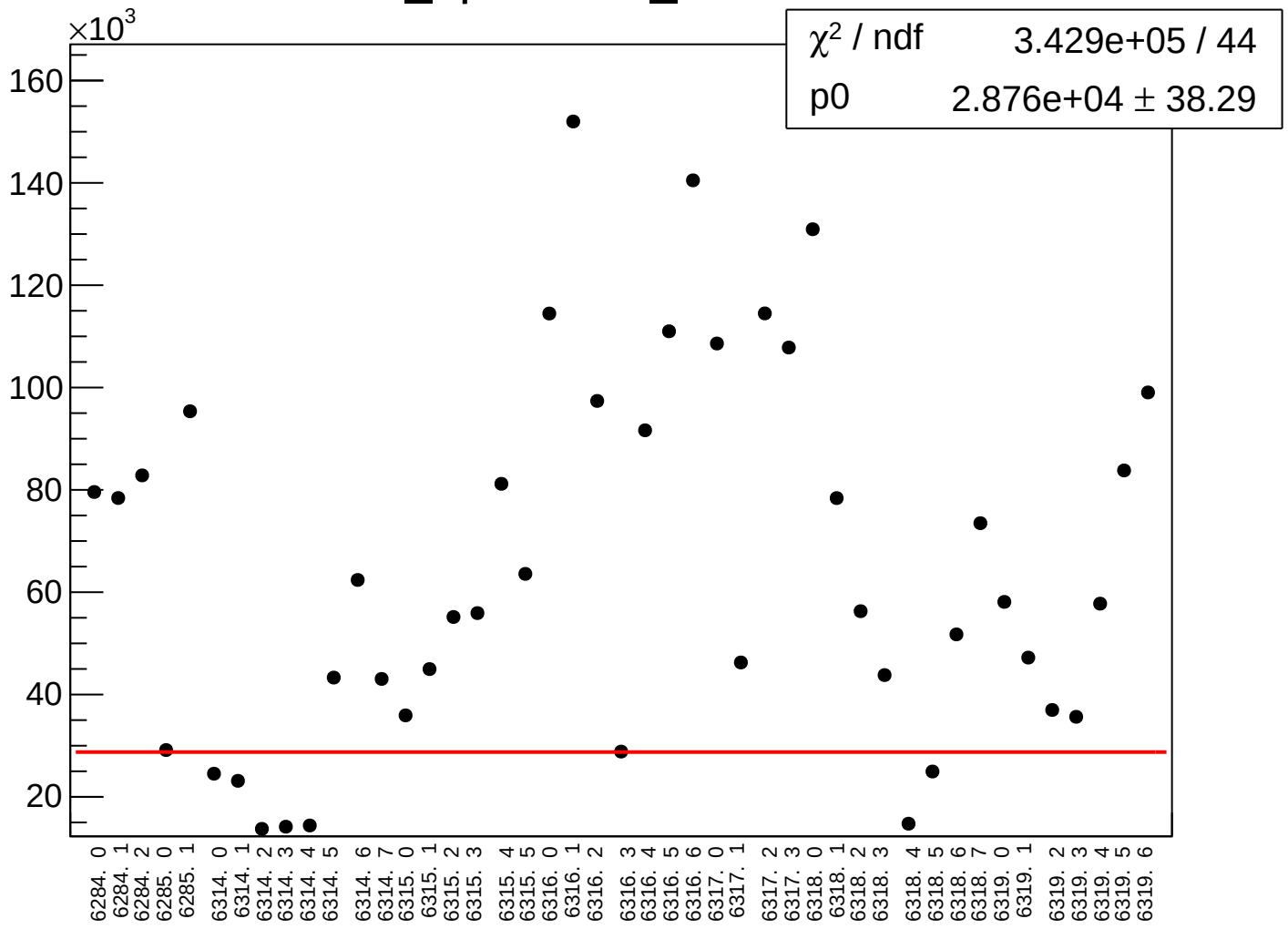

diff_bpm0l02Y_rms vs run
χ² / ndf 1.123e+04 / 44
p0 5357 ± 5.659
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

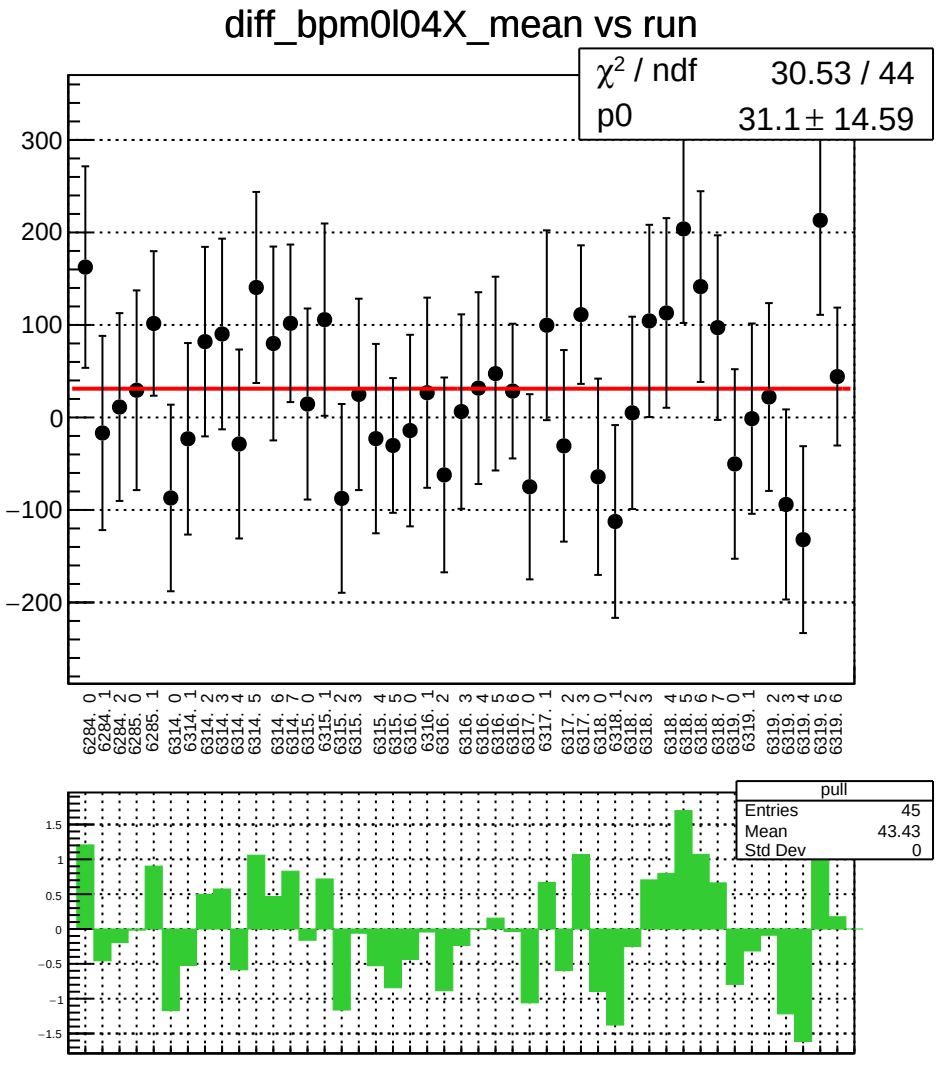

diff_bpm0l03X_mean vs run
χ² / ndf 49.05 / 44
p0 −3.621 ± 56.01
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.99
Std Dev 0
2
1
0
−1
−2

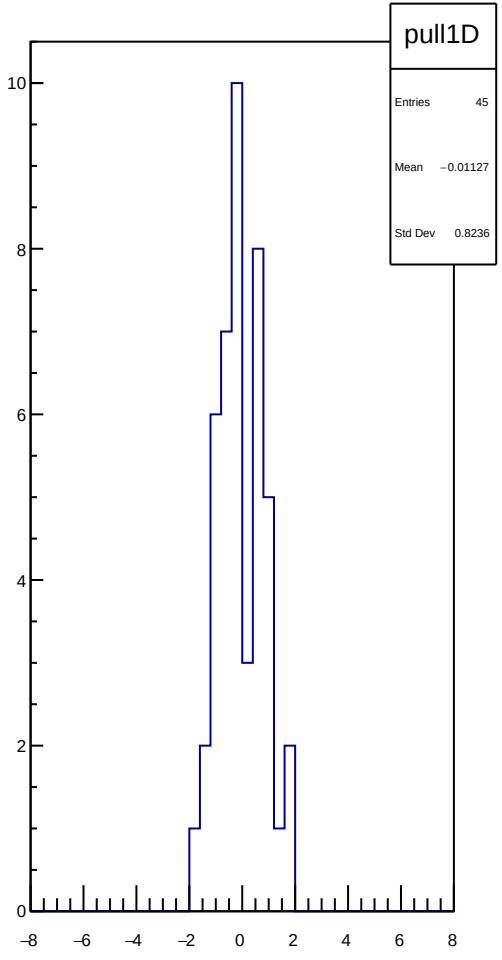

pull1D
Entries 45
Mean −0.03063
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

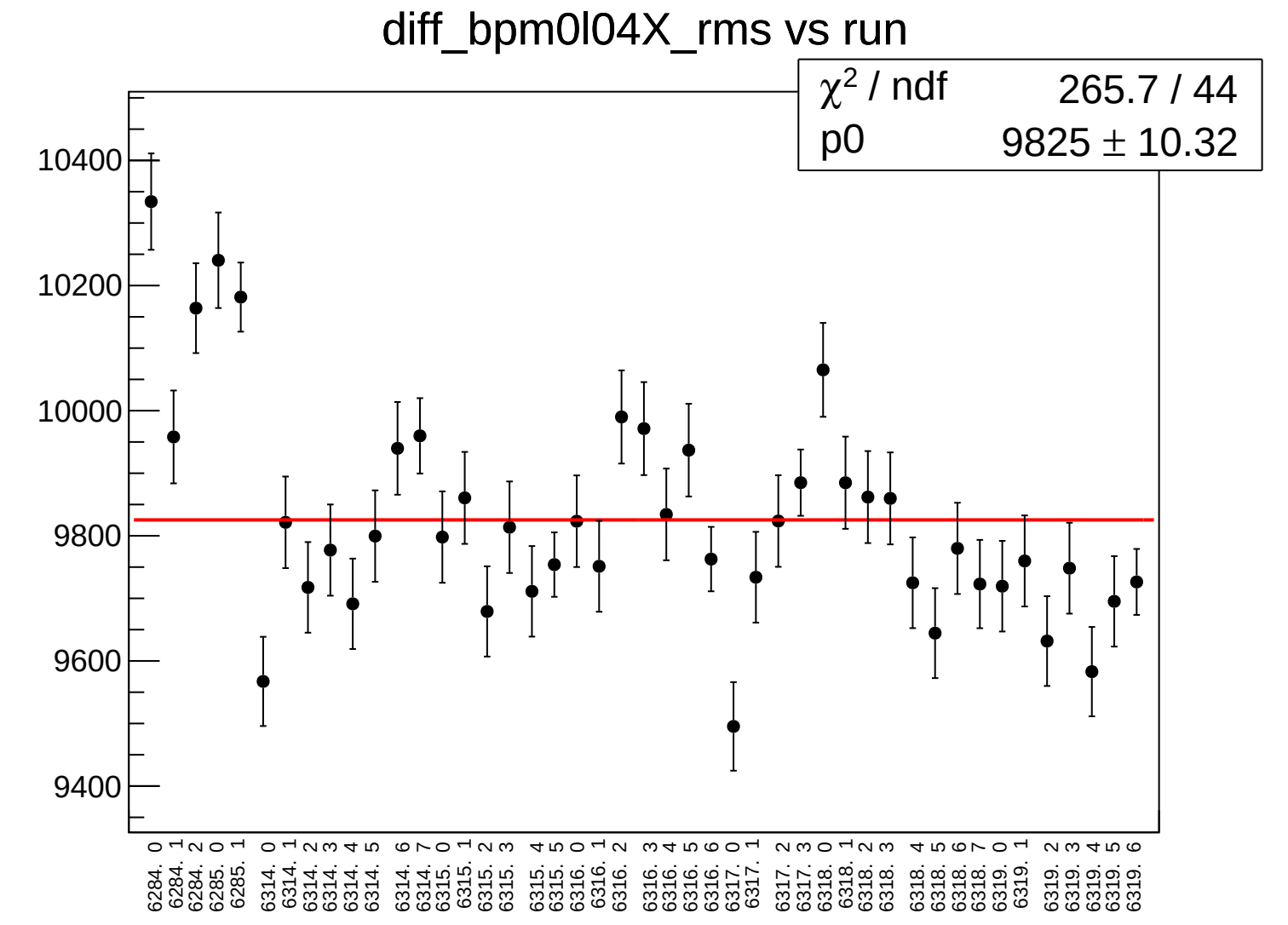

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 3.269e+05 / 44
p0 3.017e+04 ± 39.6
160
140
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

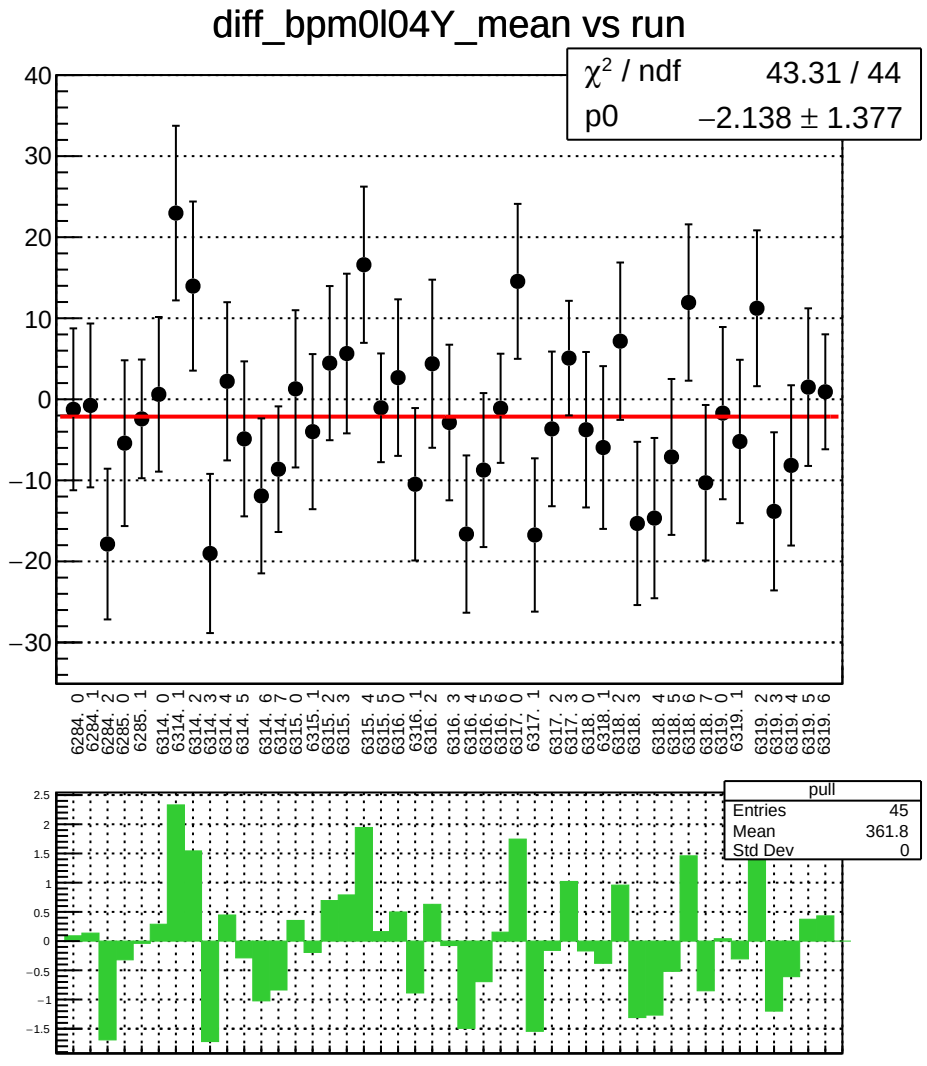

diff_bpm0l03Y_mean vs run
χ² / ndf 49.04 / 44
p0 −1.586 ± 54.14
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 119.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.009116
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

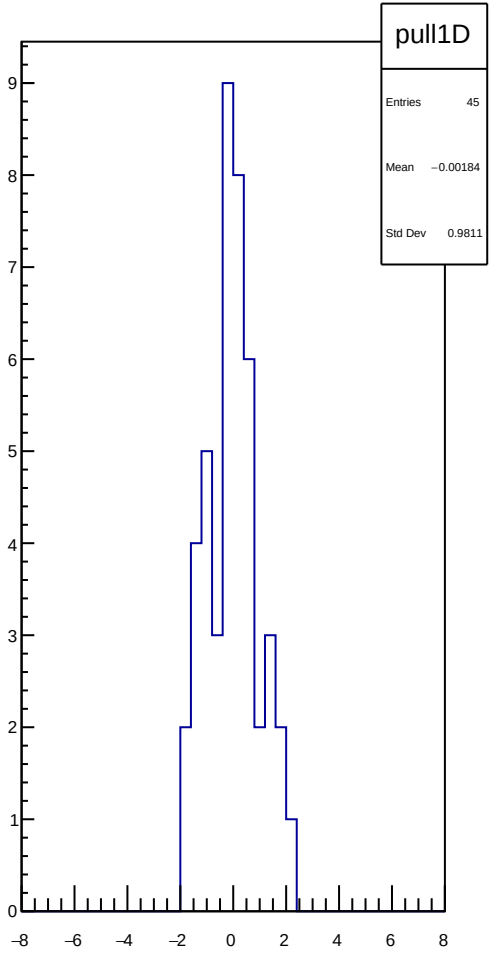

diff_bpm0l03Y_rms vs run
×10^3
χ² / ndf 3.429e+05 / 44
p0 2.876e+04 ± 38.29
160
140
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

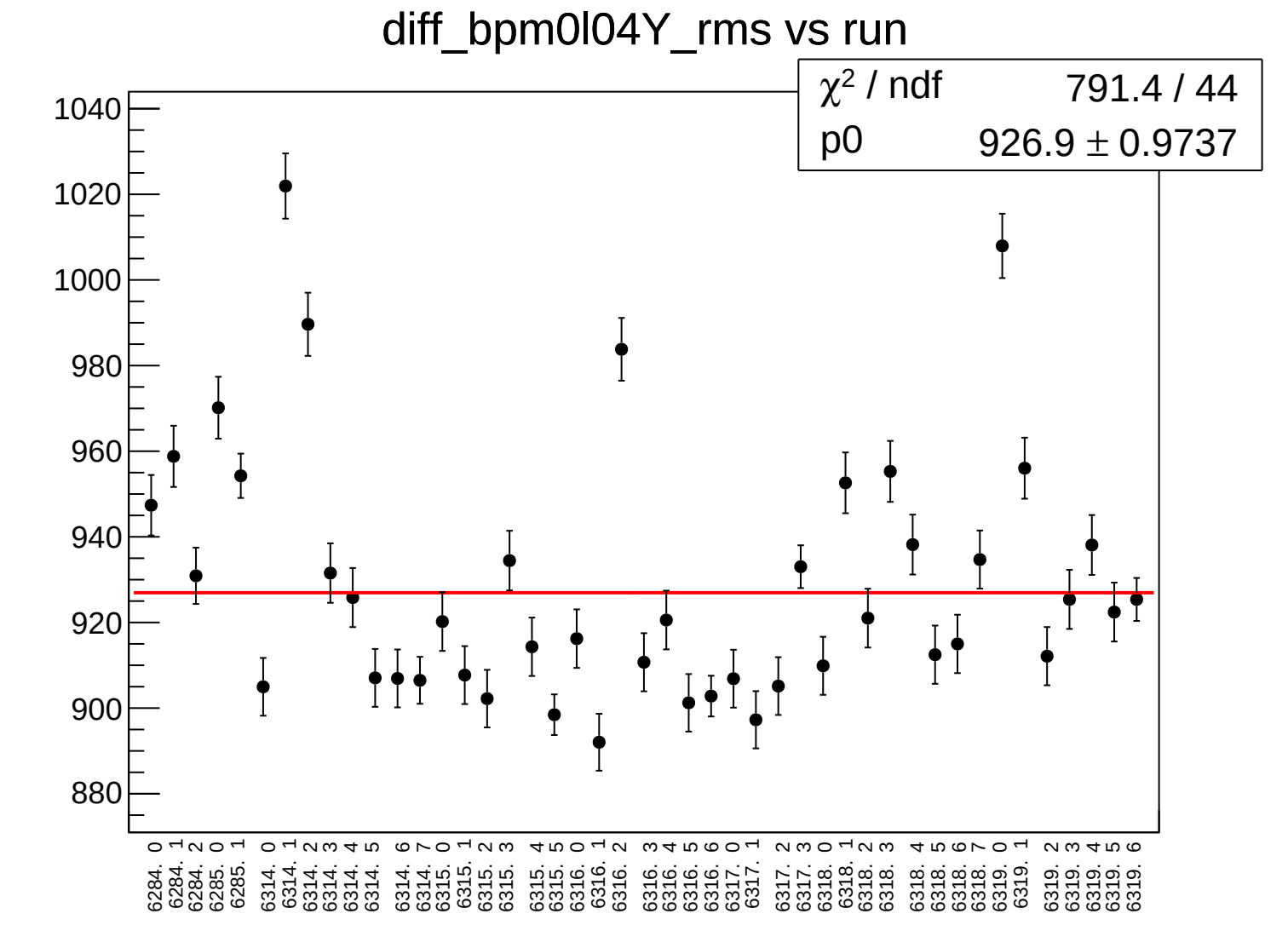

diff_bpm0l04X_mean vs run
χ² / ndf 30.53 / 44
p0 31.1 ± 14.59
300
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.01127
Std Dev 0.8236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l04X_rms vs run
χ² / ndf 265.7 / 44
p0 9825 ± 10.32
10400
10200
10000
9800
9600
9400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0l04Y_mean vs run
χ^2 / ndf 43.31 / 44
p0 −2.138 ± 1.377
pull
Entries 45
Mean 361.8
Std Dev 0


pull1D
Entries 45
Mean −0.00184
Std Dev 0.9811


diff_bpm0l04Y_rms vs run
χ² / ndf 791.4 / 44
p0 926.9 ± 0.9737
1040
1020
1000
980
960
940
920
900
880
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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6319. 2
6319. 3
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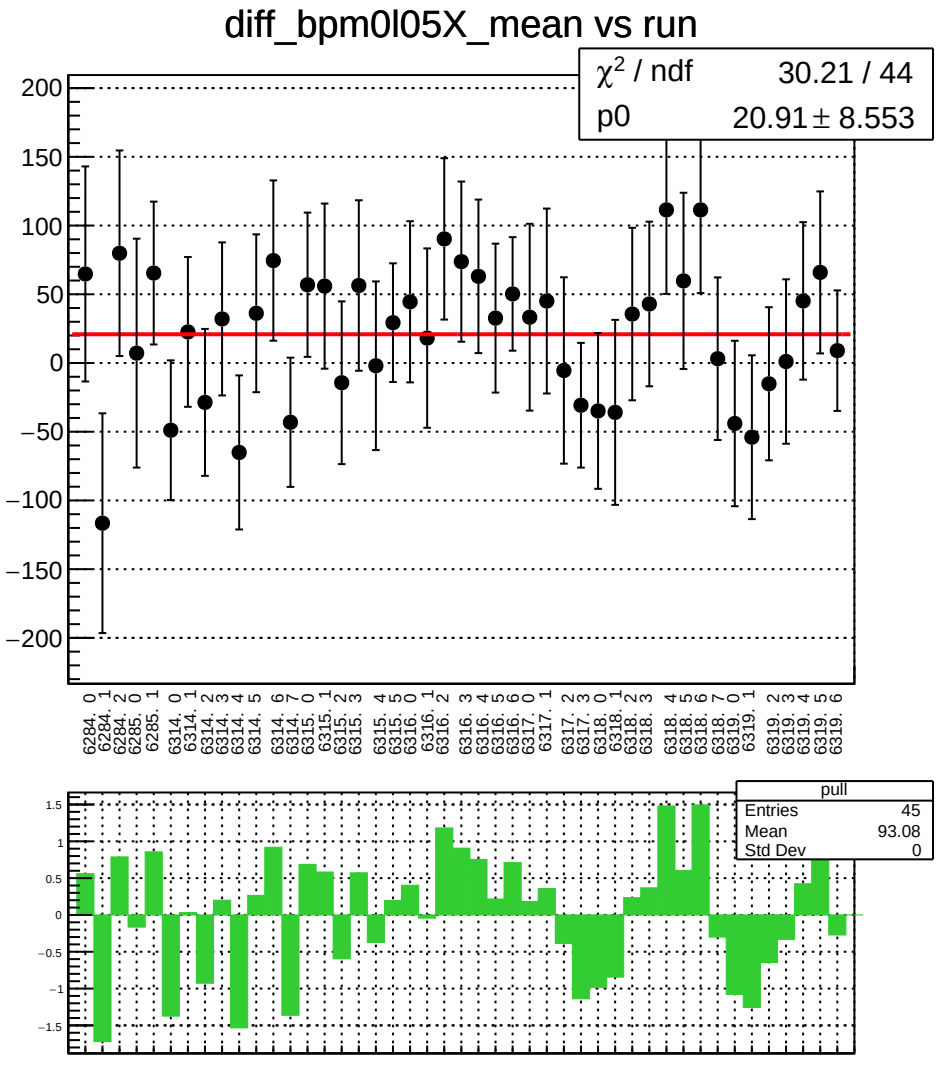
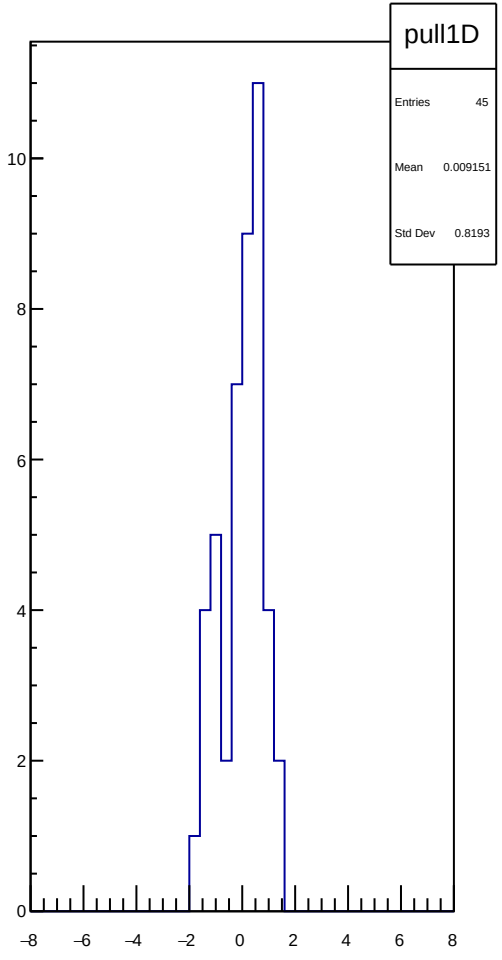
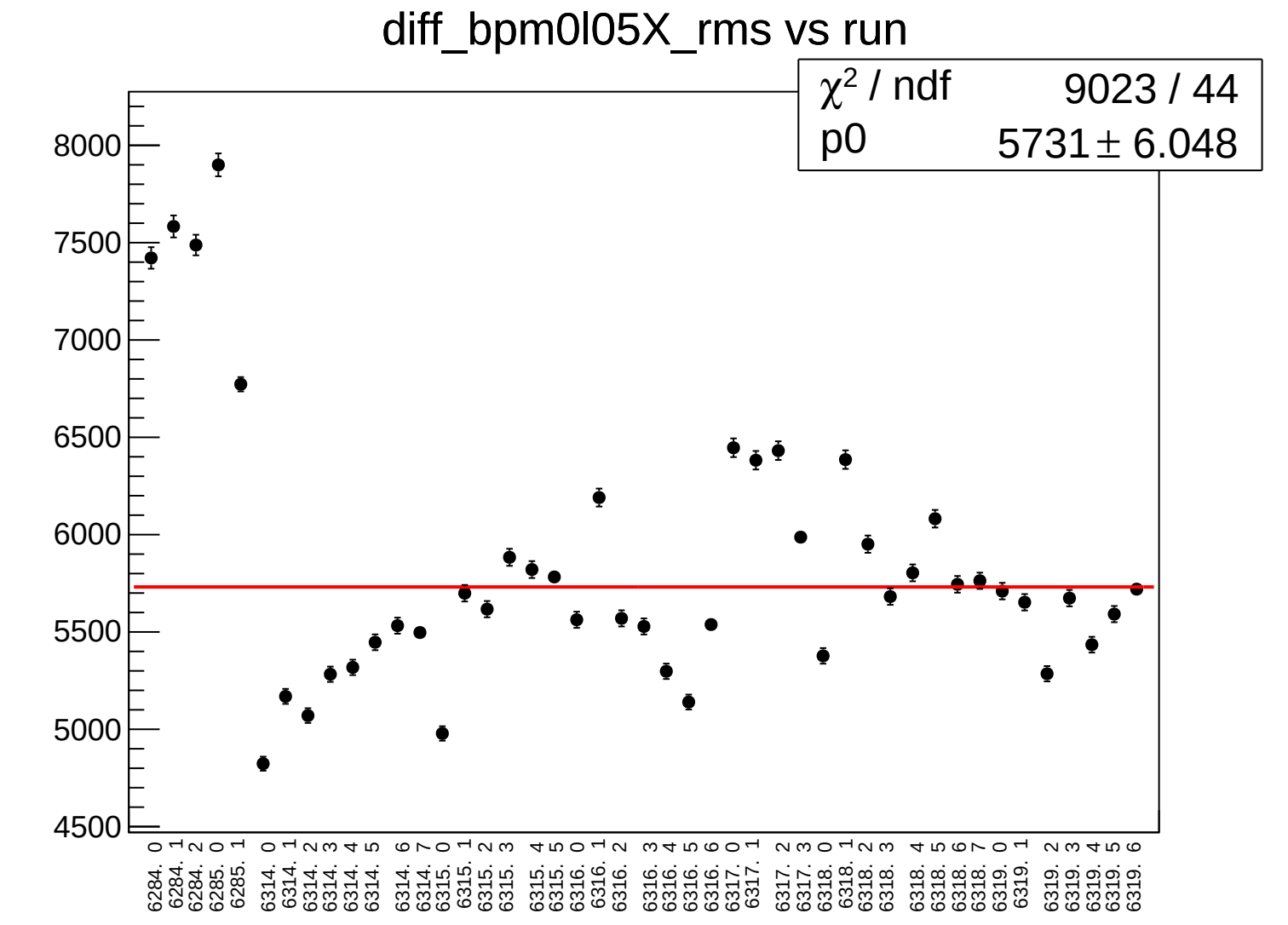
6319. 6


diff_bpm0l05X_mean vs run
χ^2 / ndf 30.21 / 44
p0 20.91 ± 8.553
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009151
Std Dev 0.8193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l05X_rms vs run
χ² / ndf 9023 / 44
p0 5731 ± 6.048
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
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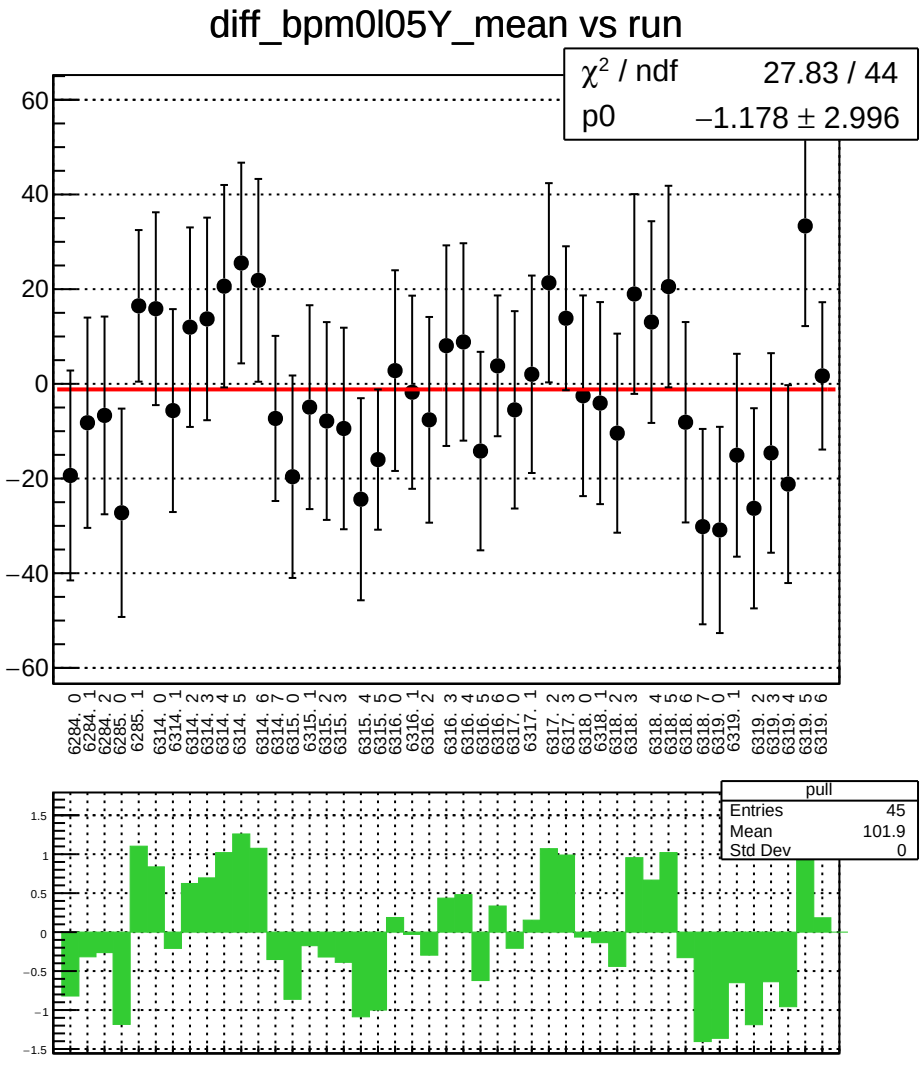
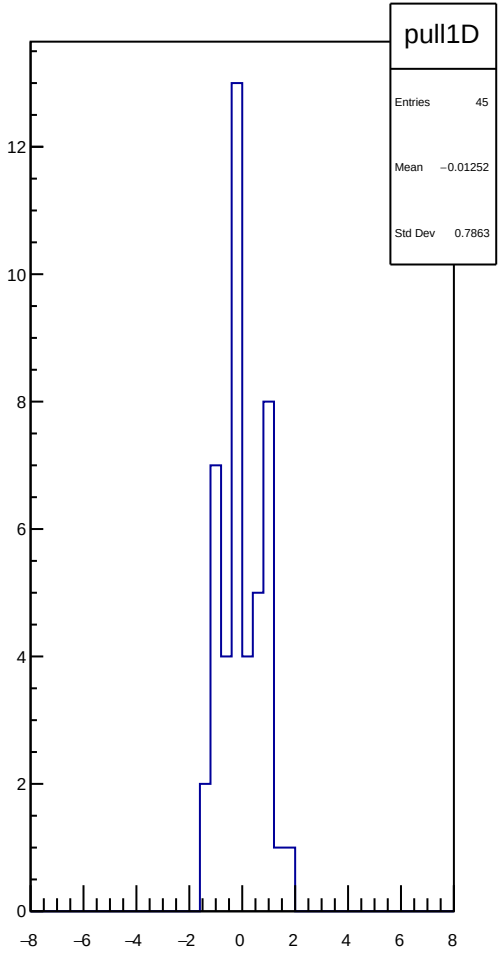
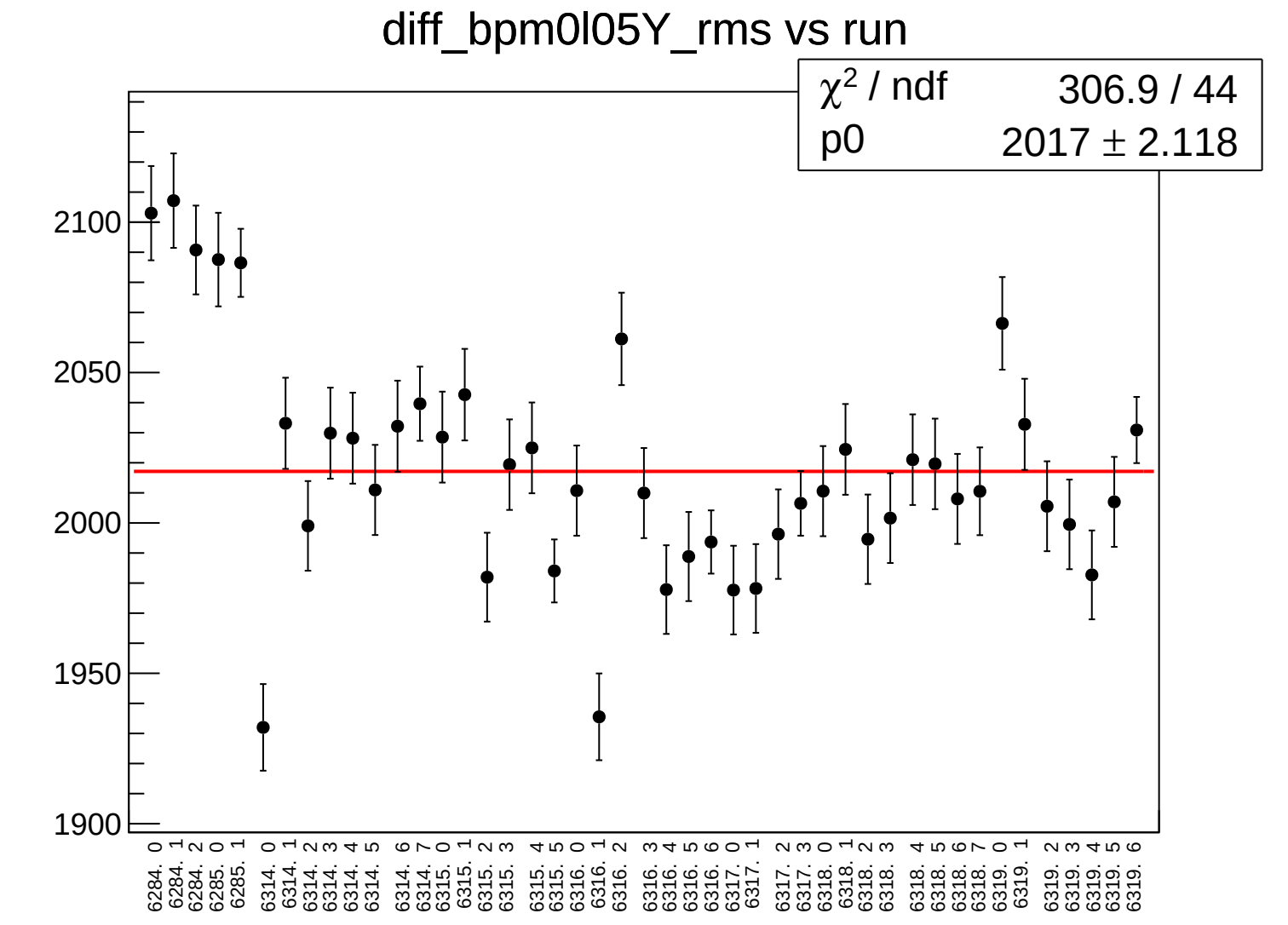
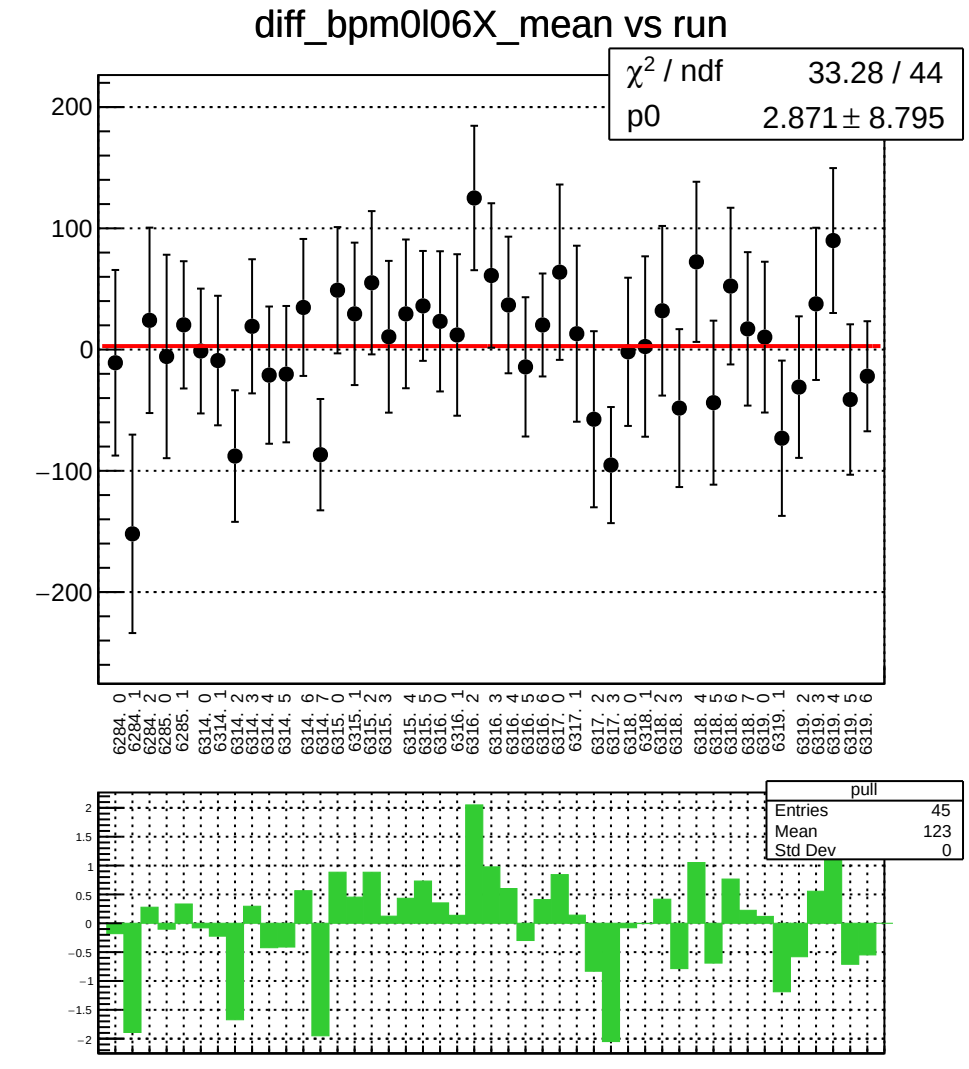
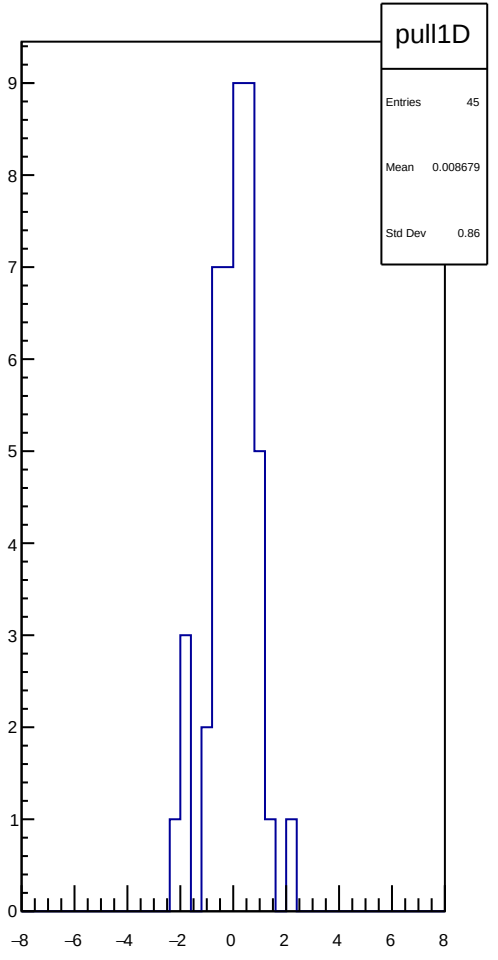
6319. 5
6319. 6

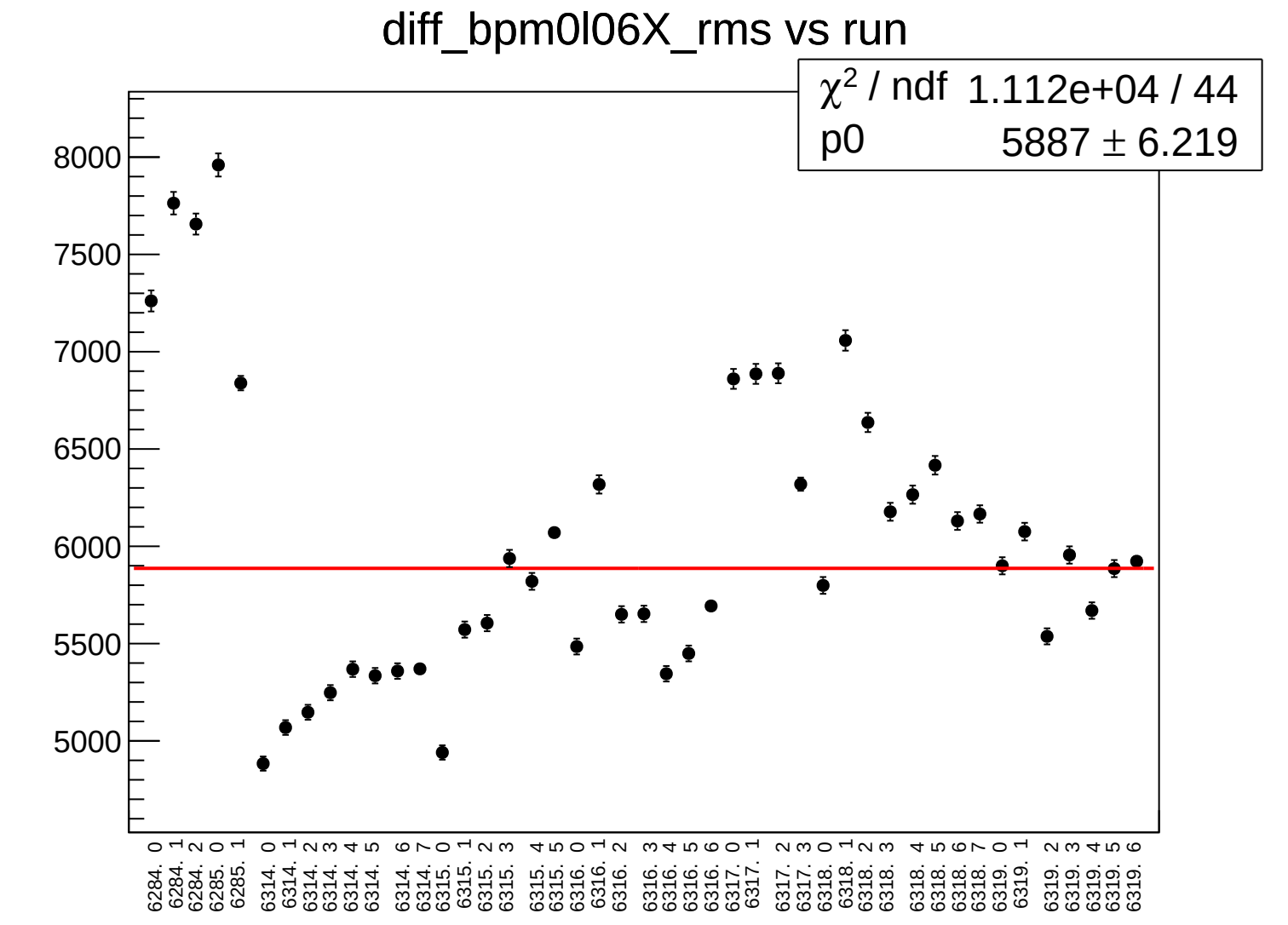

diff_bpm0l05Y_mean vs run
χ² / ndf 27.83 / 44
p0 −1.178 ± 2.996
pull
Entries 45
Mean 101.9
Std Dev 0

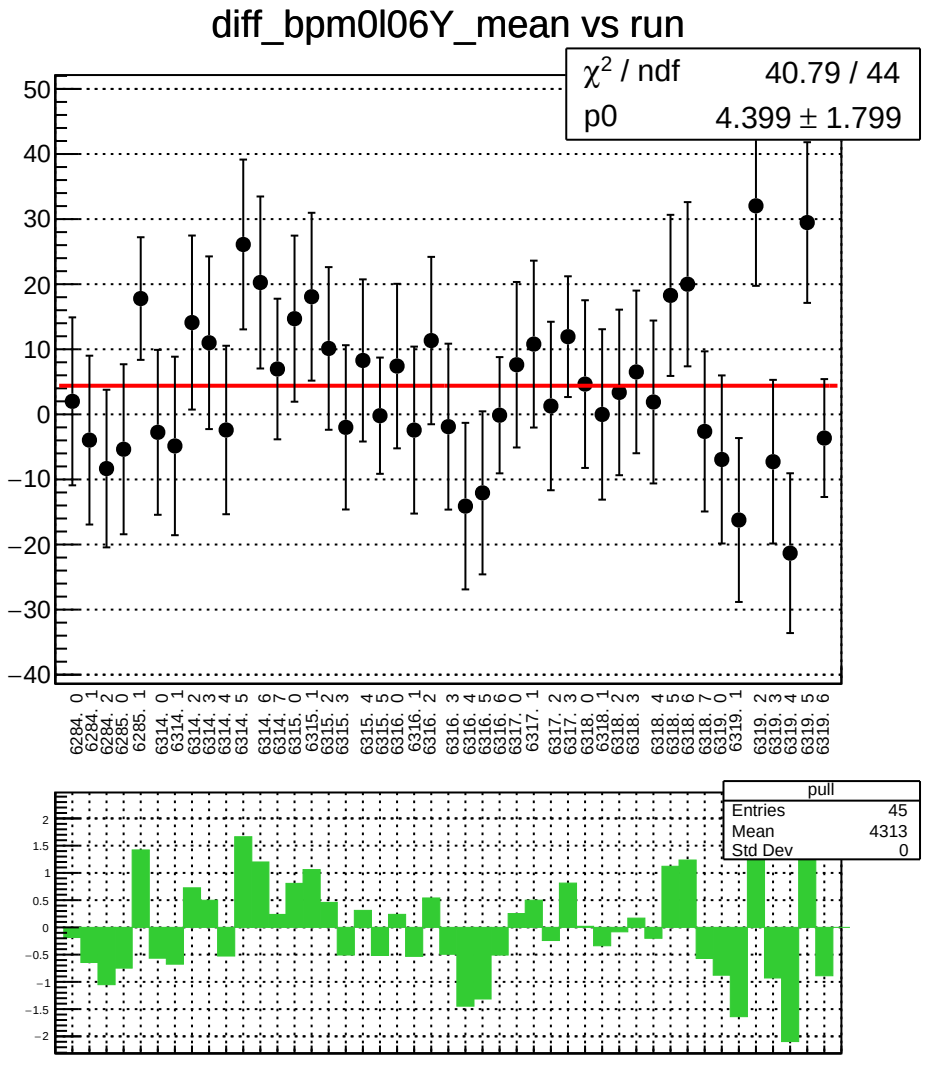

pull1D
Entries 45
Mean −0.01252
Std Dev 0.7863

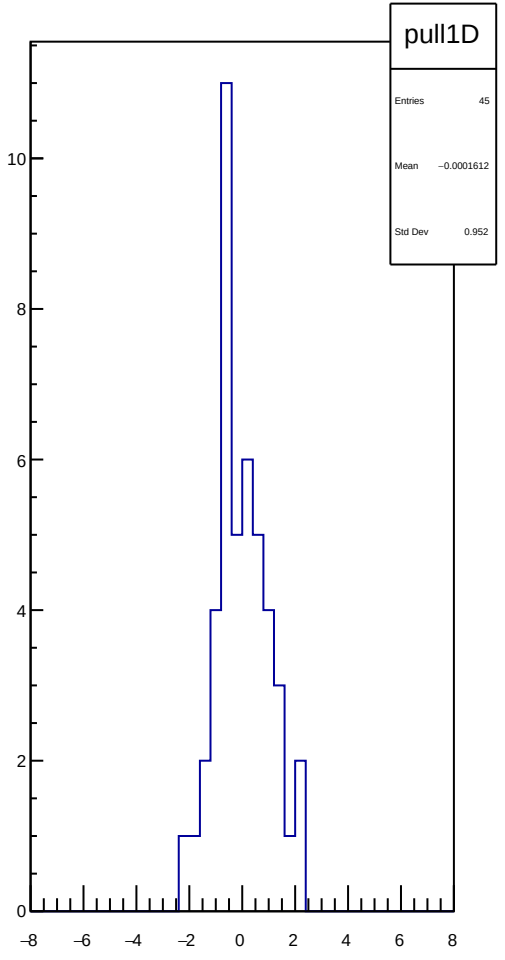

diff_bpm0l05Y_rms vs run
χ² / ndf 306.9 / 44
p0 2017 ± 2.118
2100
2050
2000
1950
1900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

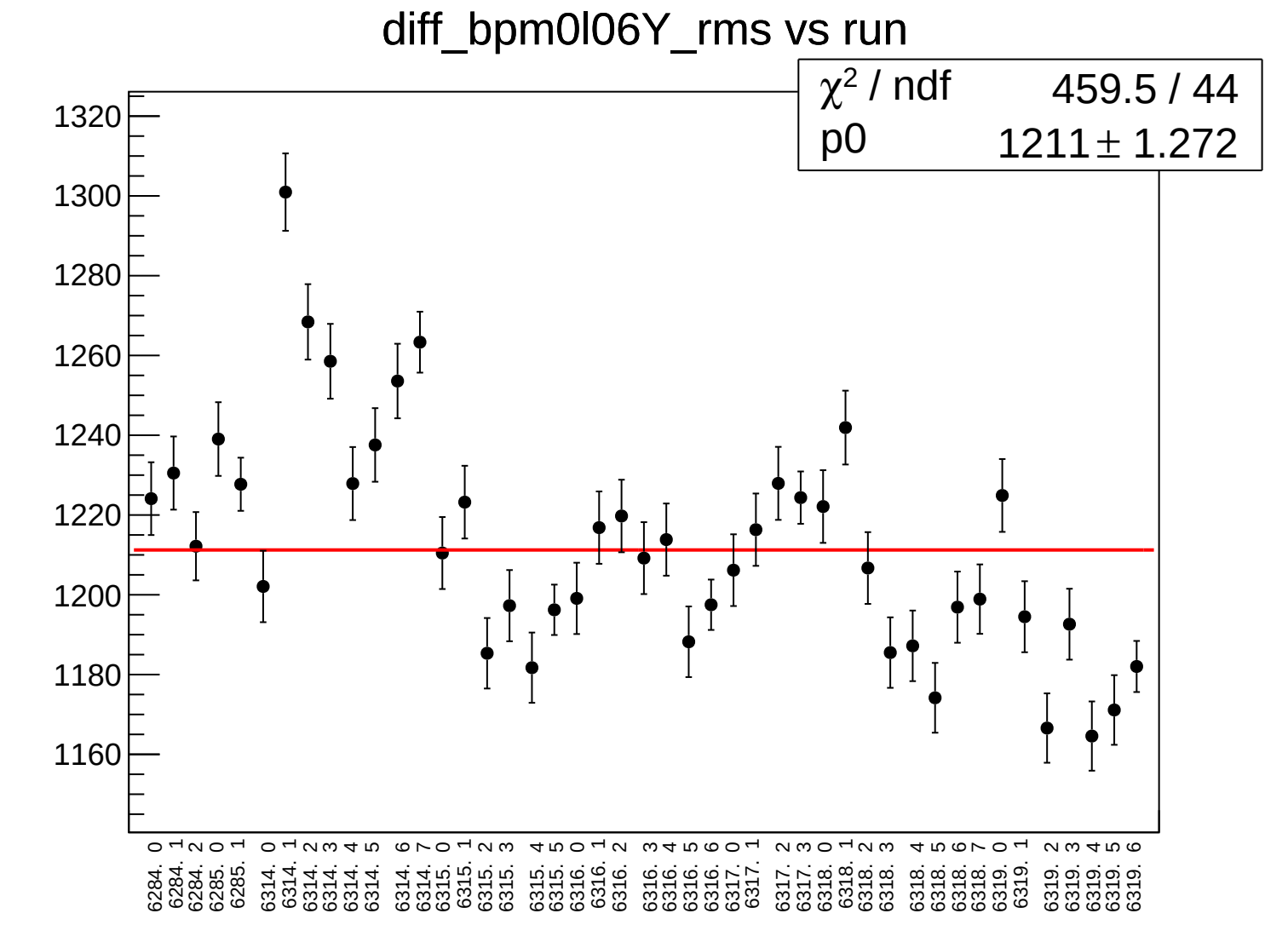

diff_bpm0l06X_mean vs run
χ² / ndf 33.28 / 44
p0 2.871 ± 8.795
200
100
0
−100
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 123
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

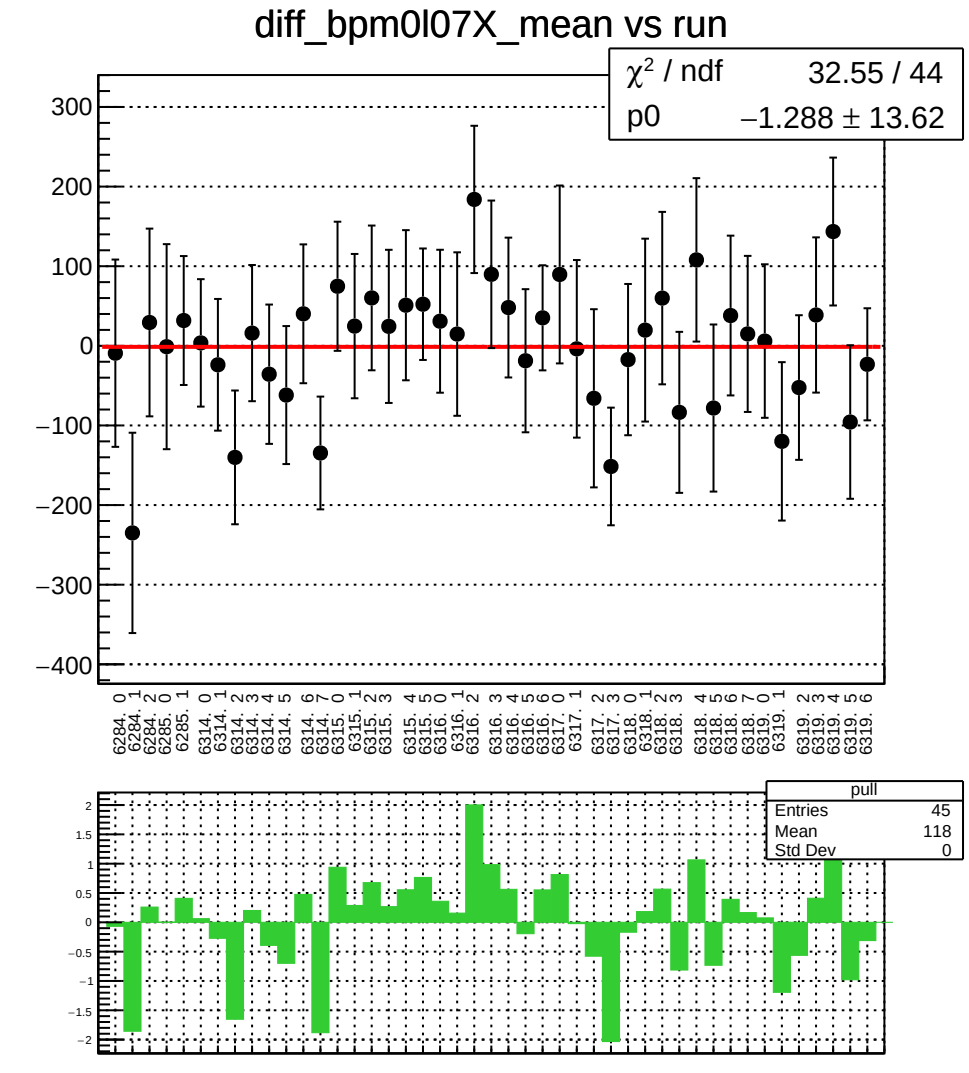

pull1D
Entries 45
Mean 0.008679
Std Dev 0.86
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

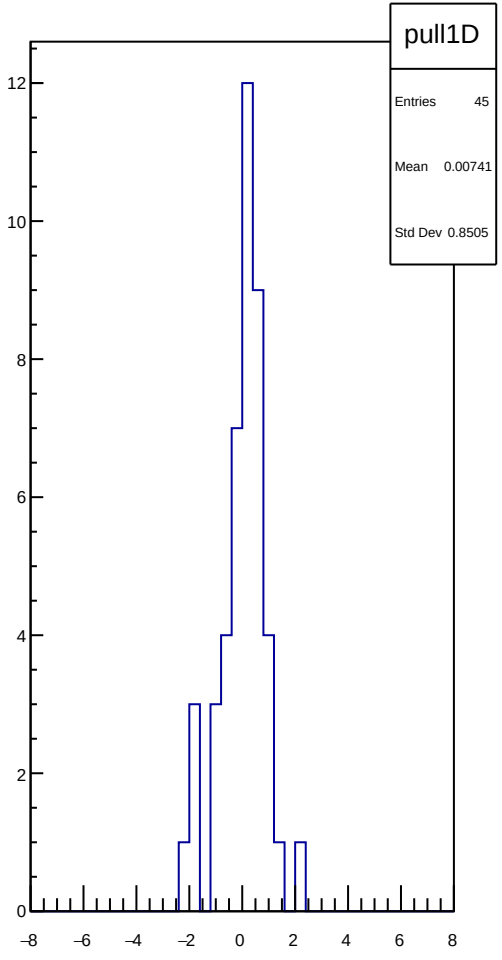

diff_bpm0l06X_rms vs run
χ² / ndf 1.112e+04 / 44
p0 5887 ± 6.219
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

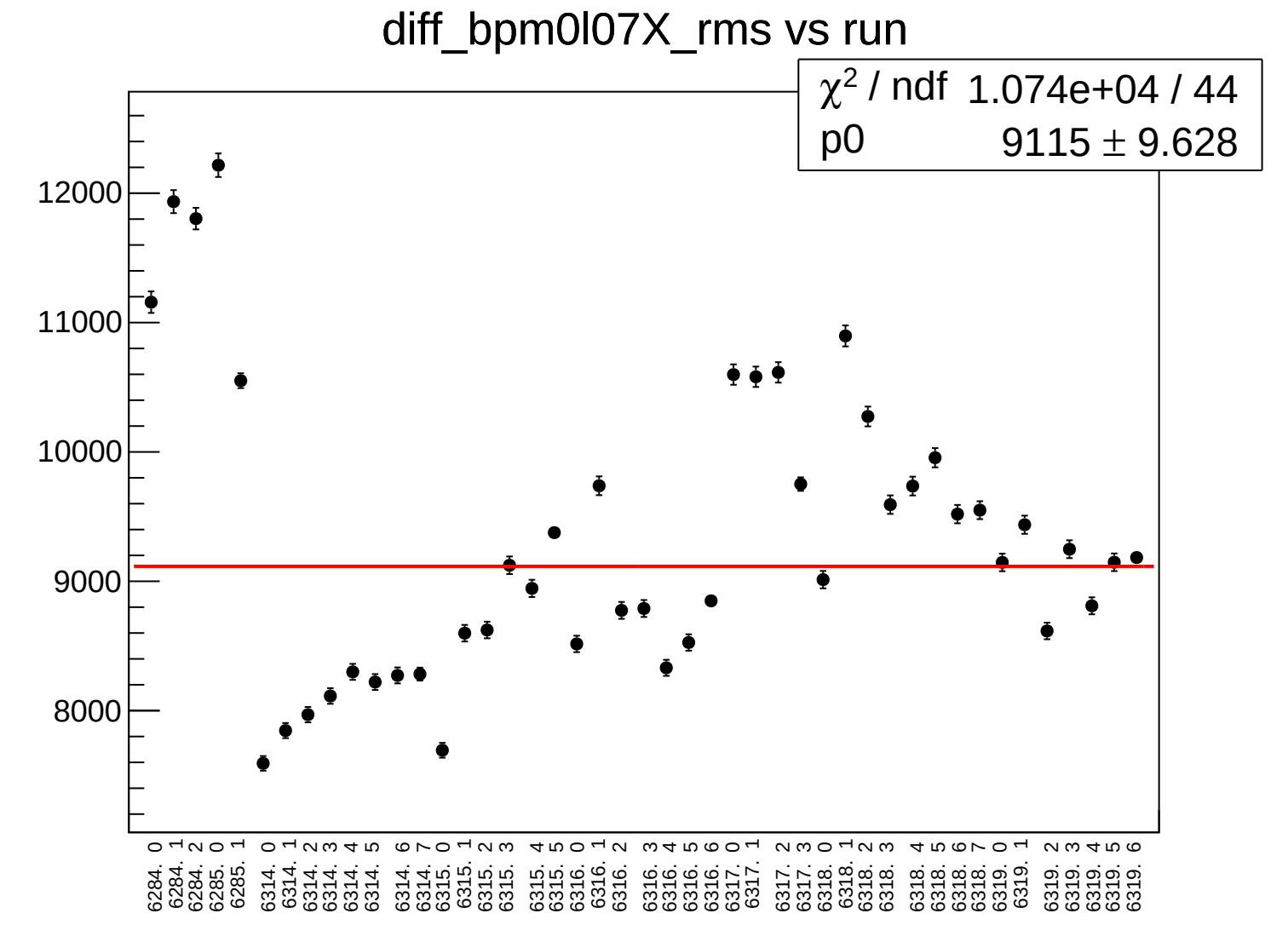

diff_bpm0l06Y_mean vs run
χ² / ndf 40.79 / 44
p0 4.399 ± 1.799
pull
Entries 45
Mean 4313
Std Dev 0

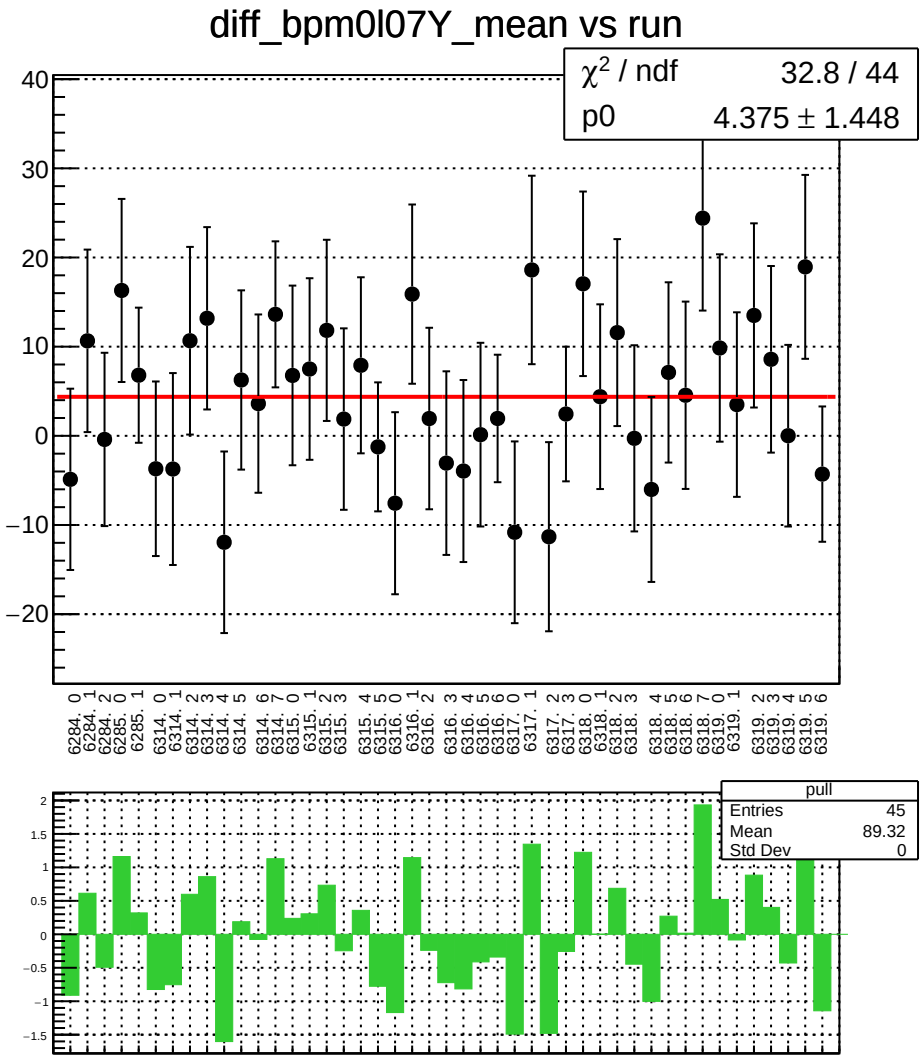

pull1D
Entries 45
Mean −0.0001612
Std Dev 0.952

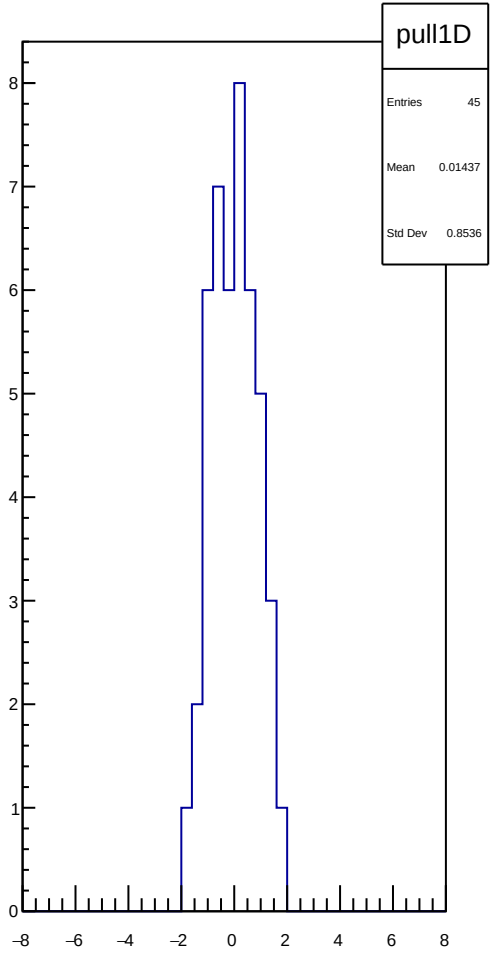

diff_bpm0l06Y_rms vs run
χ² / ndf 459.5 / 44
p0 1211 ± 1.272
1320
1300
1280
1260
1240
1220
1200
1180
1160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

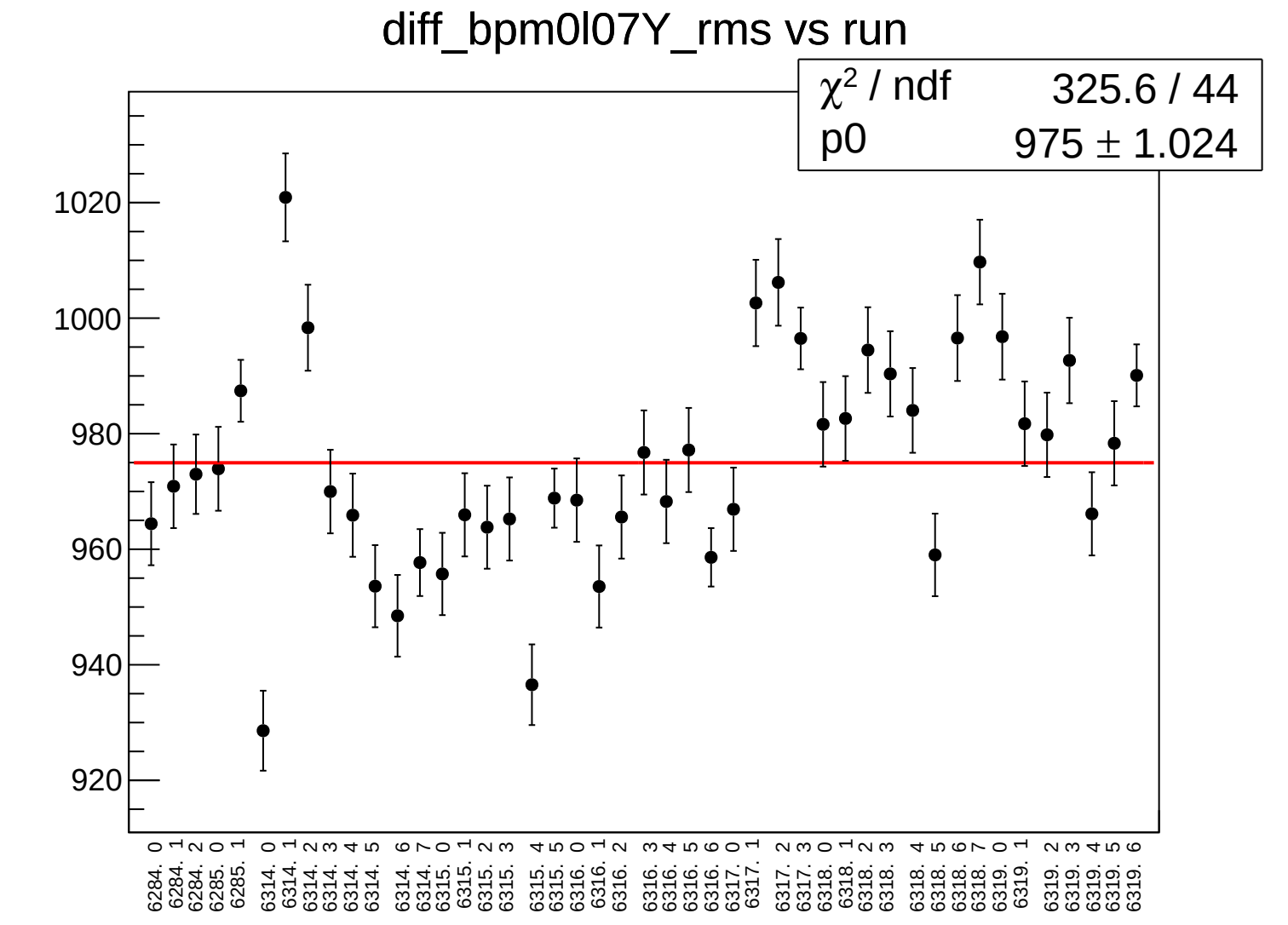

diff_bpm0l07X_mean vs run
χ² / ndf 32.55 / 44
p0 −1.288 ± 13.62
300
200
100
0
−100
−200
−300
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00741
Std Dev 0.8505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l07X_rms vs run
χ² / ndf 1.074e+04 / 44
p0 9115 ± 9.628
12000
11000
10000
9000
8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0l07Y_mean vs run
χ² / ndf 32.8 / 44
p0 4.375 ± 1.448
pull
Entries 45
Mean 89.32
Std Dev 0


pull1D
Entries 45
Mean 0.01437
Std Dev 0.8536


diff_bpm0l07Y_rms vs run
χ² / ndf 325.6 / 44
p0 975 ± 1.024
1020
1000
980
960
940
920
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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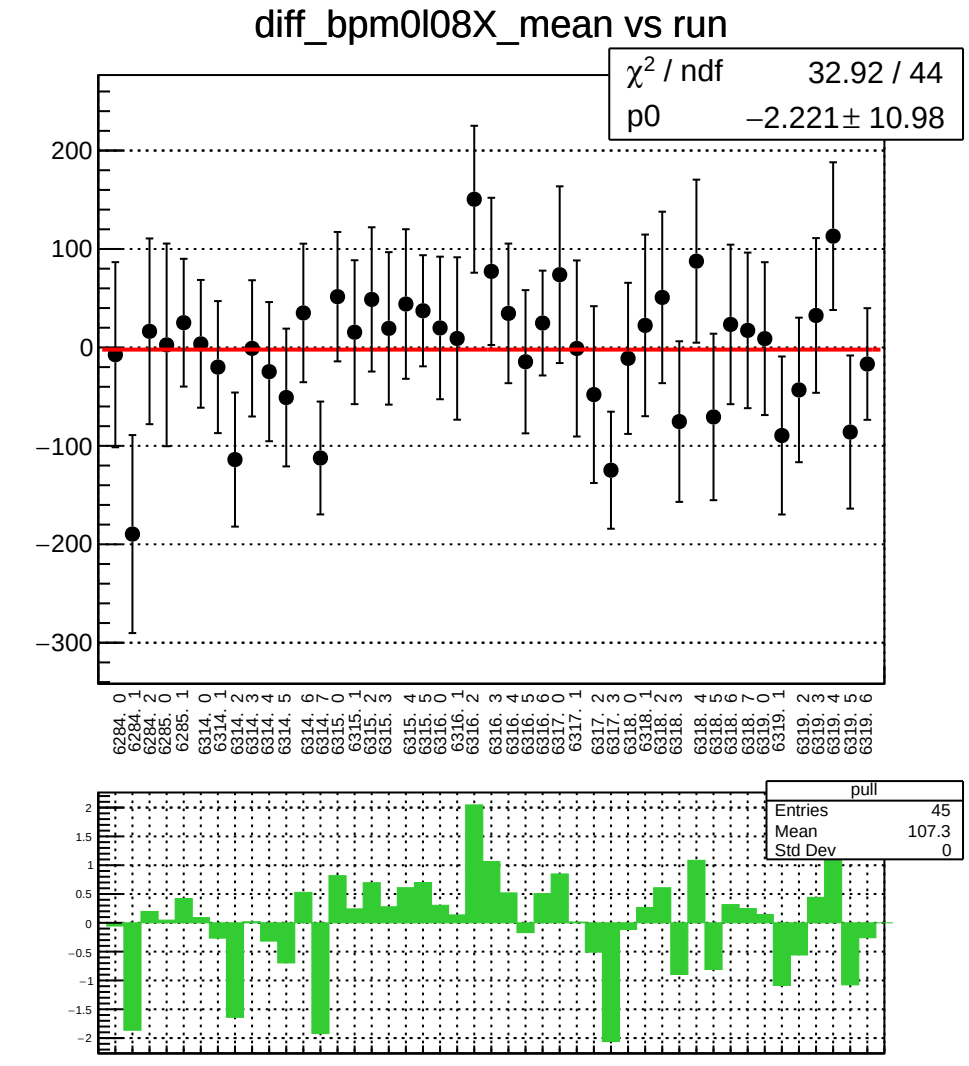
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0l08X_mean vs run
χ² / ndf 32.92 / 44
p0 −2.221 ± 10.98
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
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6316. 1
6316. 2
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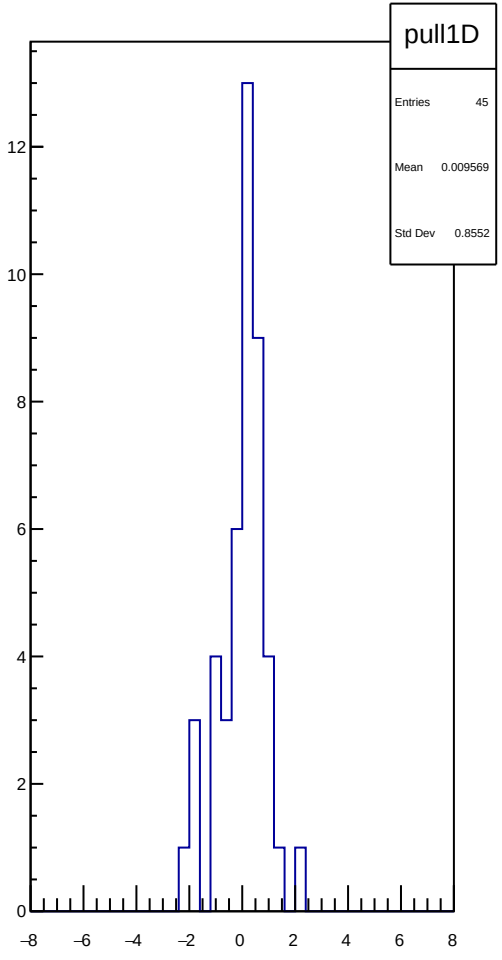
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 107.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.009569
Std Dev 0.8552
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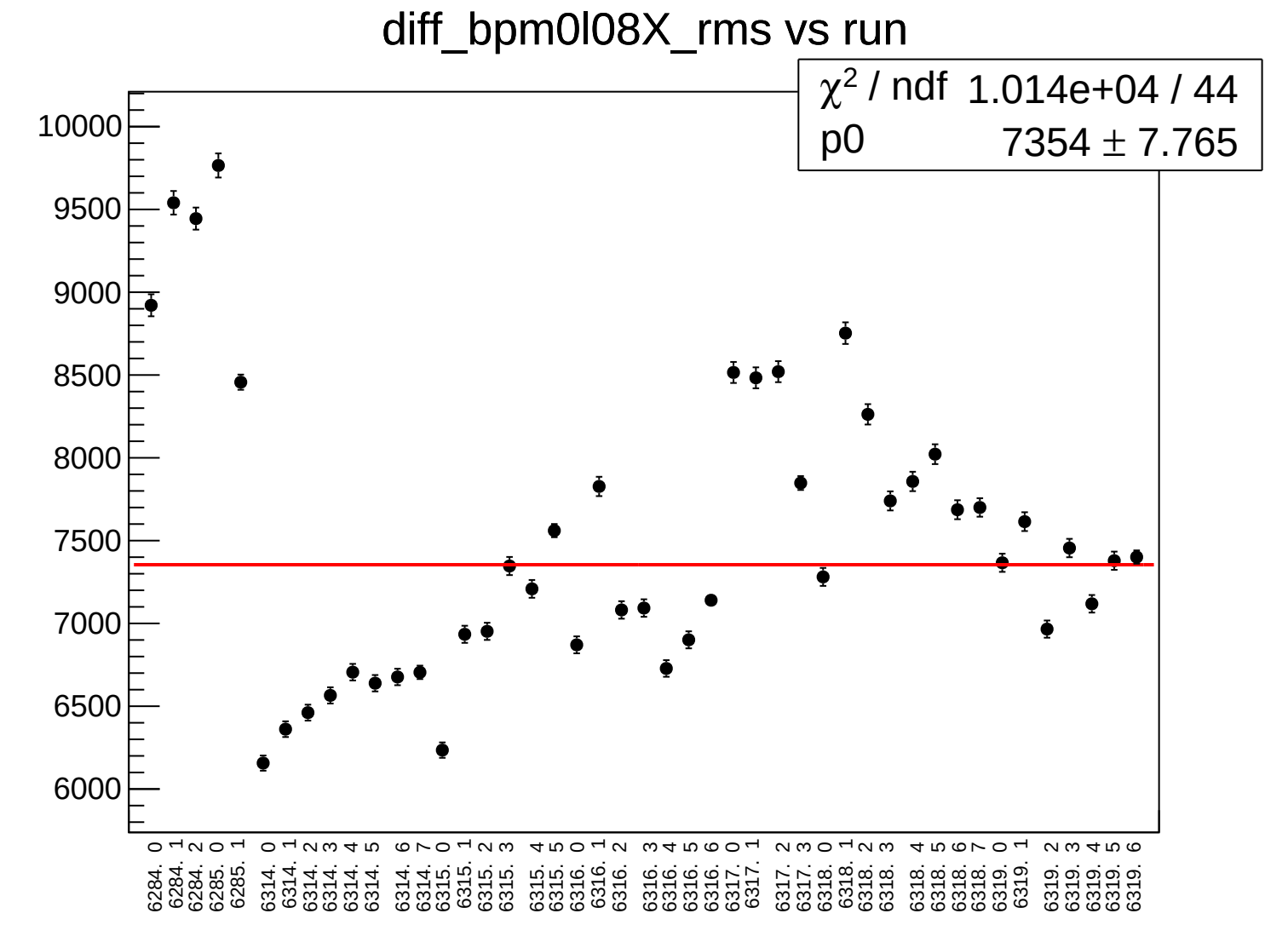
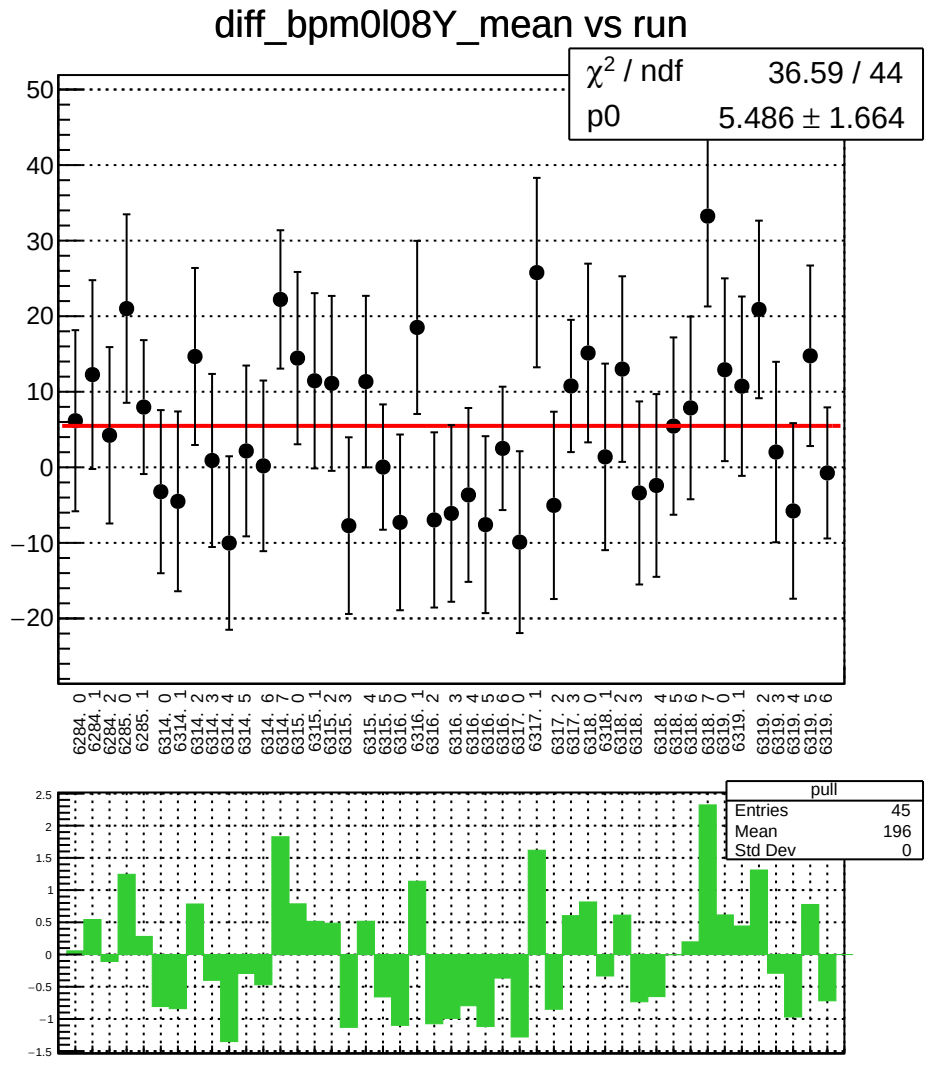
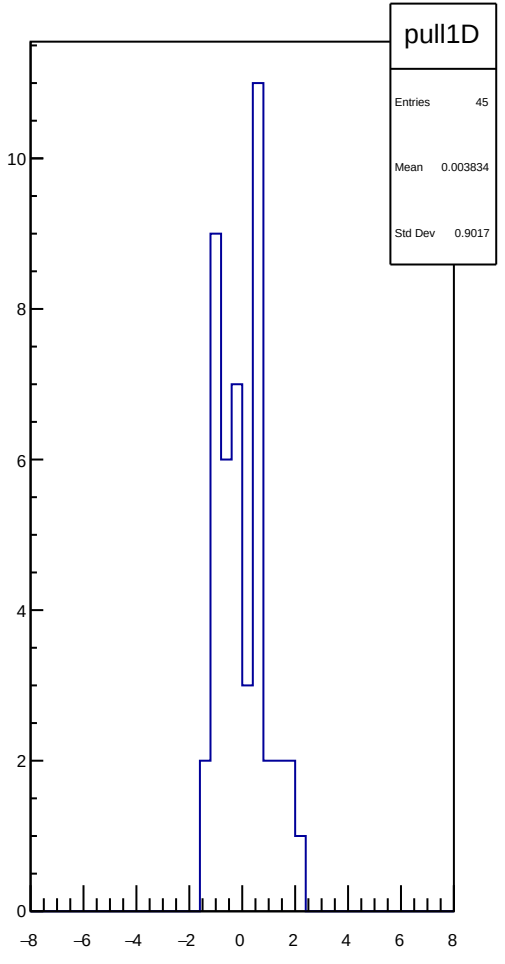
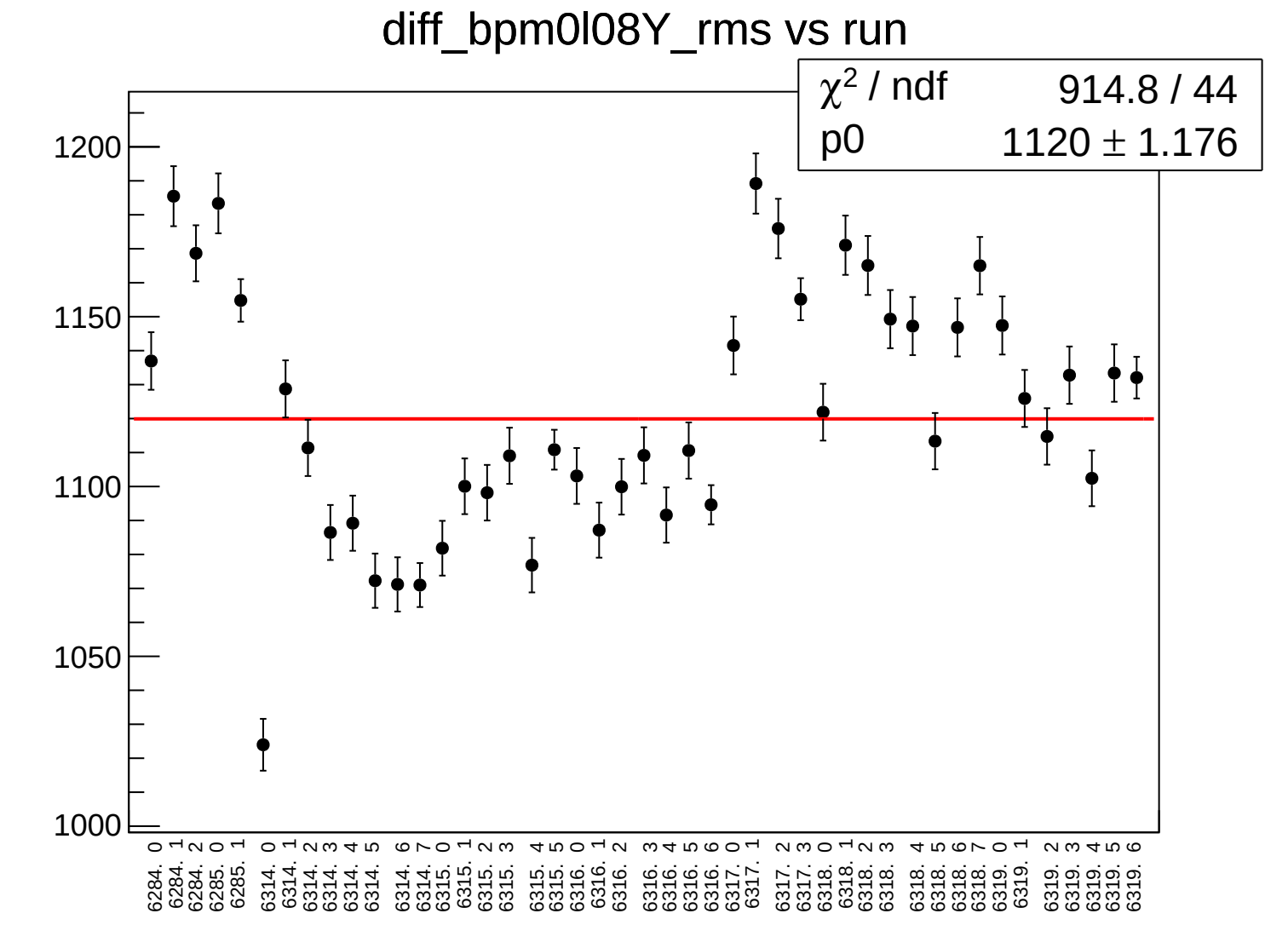
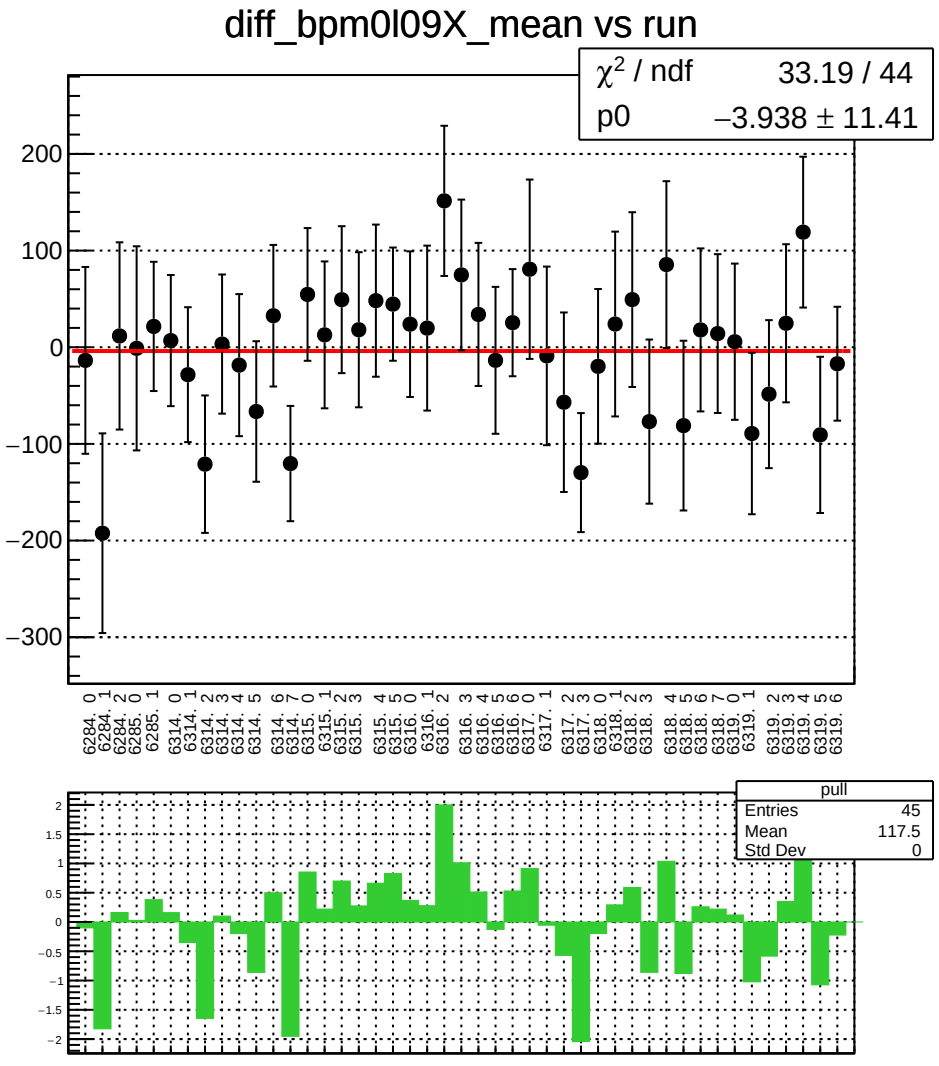
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

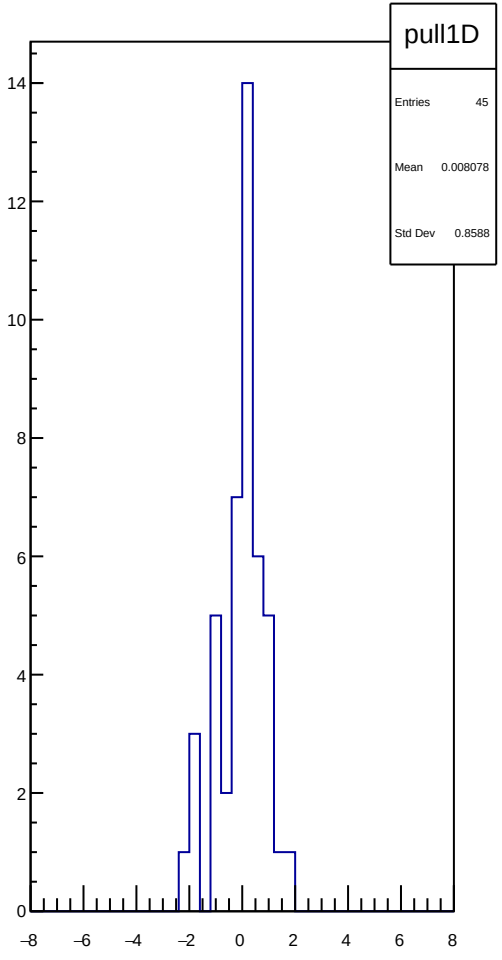

diff_bpm0l08X_rms vs run
χ² / ndf 1.014e+04 / 44
p0 7354 ± 7.765
10000
9500
9000
8500
8000
7500
7000
6500
6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

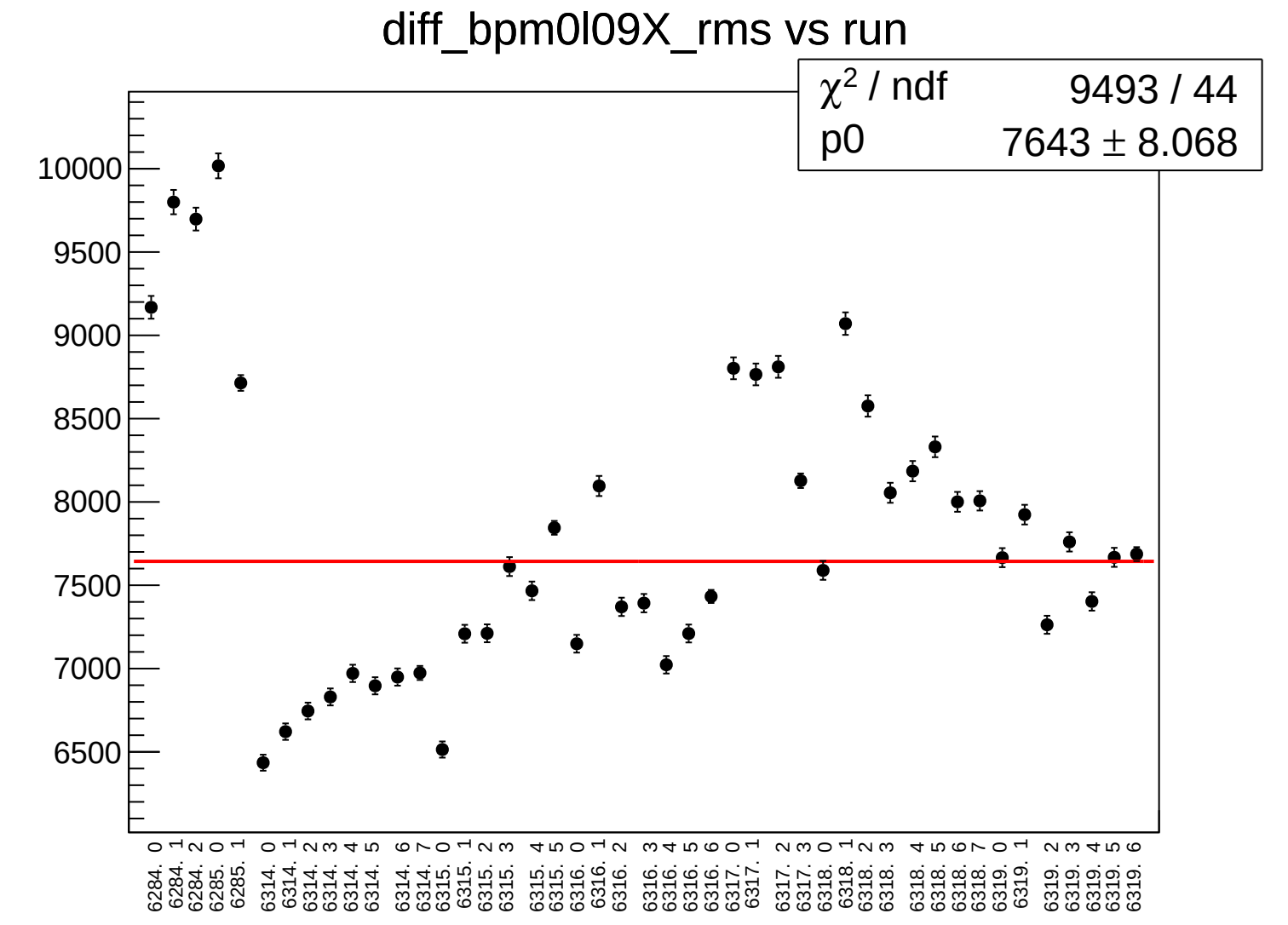

diff_bpm0l08Y_mean vs run
χ^2 / ndf 36.59 / 44
p0 5.486 ± 1.664
pull
Entries 45
Mean 196
Std Dev 0

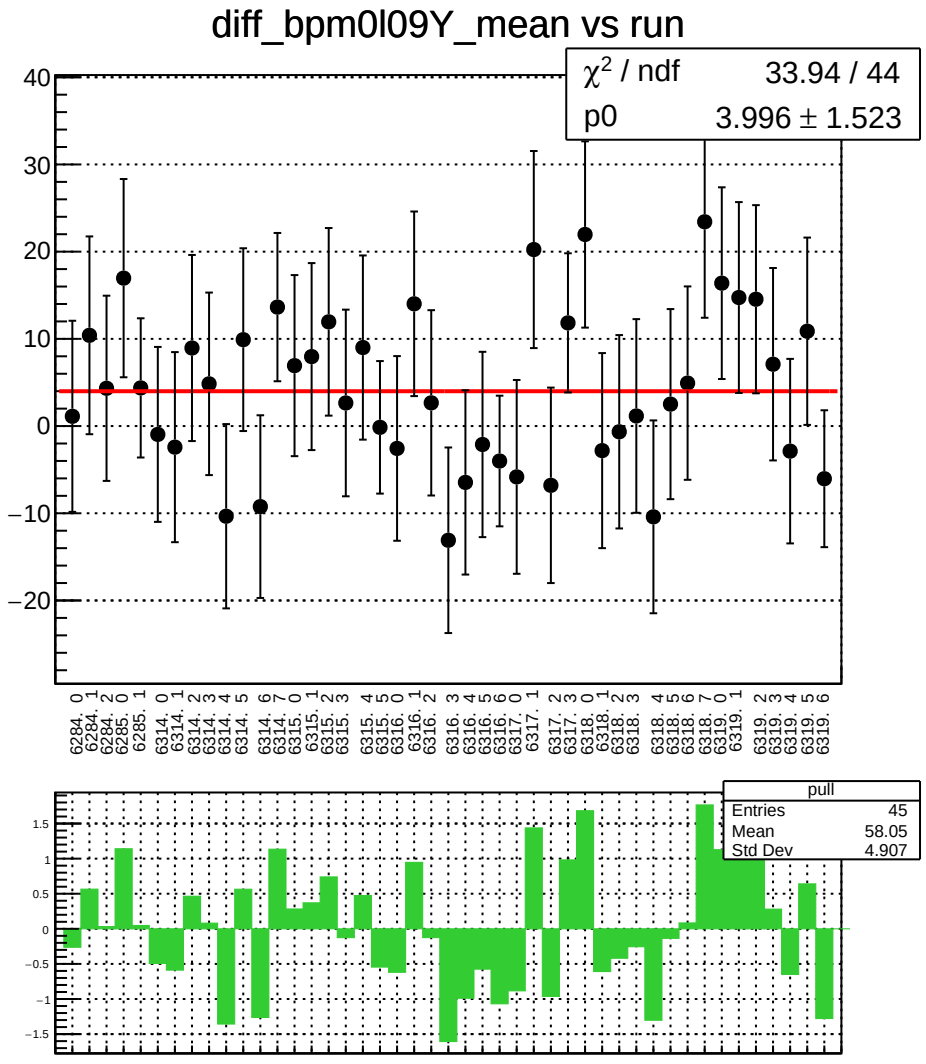

pull1D
Entries 45
Mean 0.003834
Std Dev 0.9017

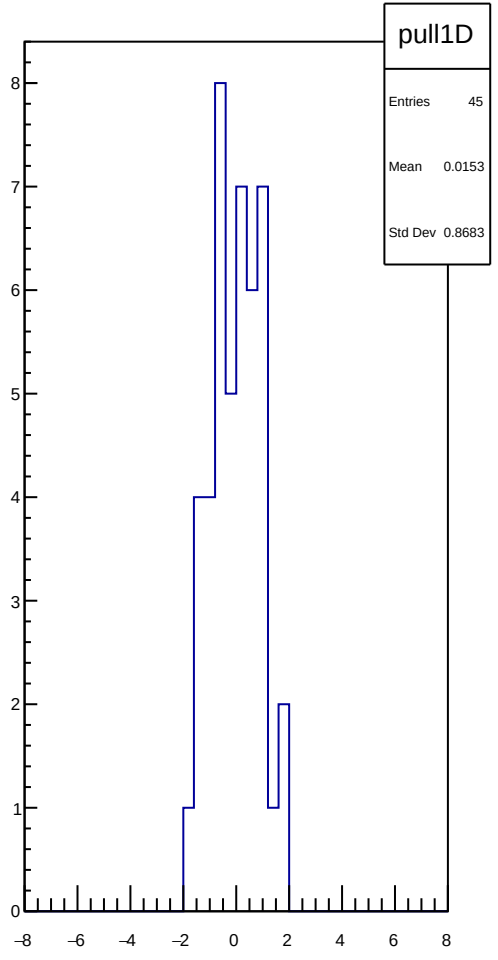

diff_bpm0l08Y_rms vs run
χ² / ndf 914.8 / 44
p0 1120 ± 1.176
1200
1150
1100
1050
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

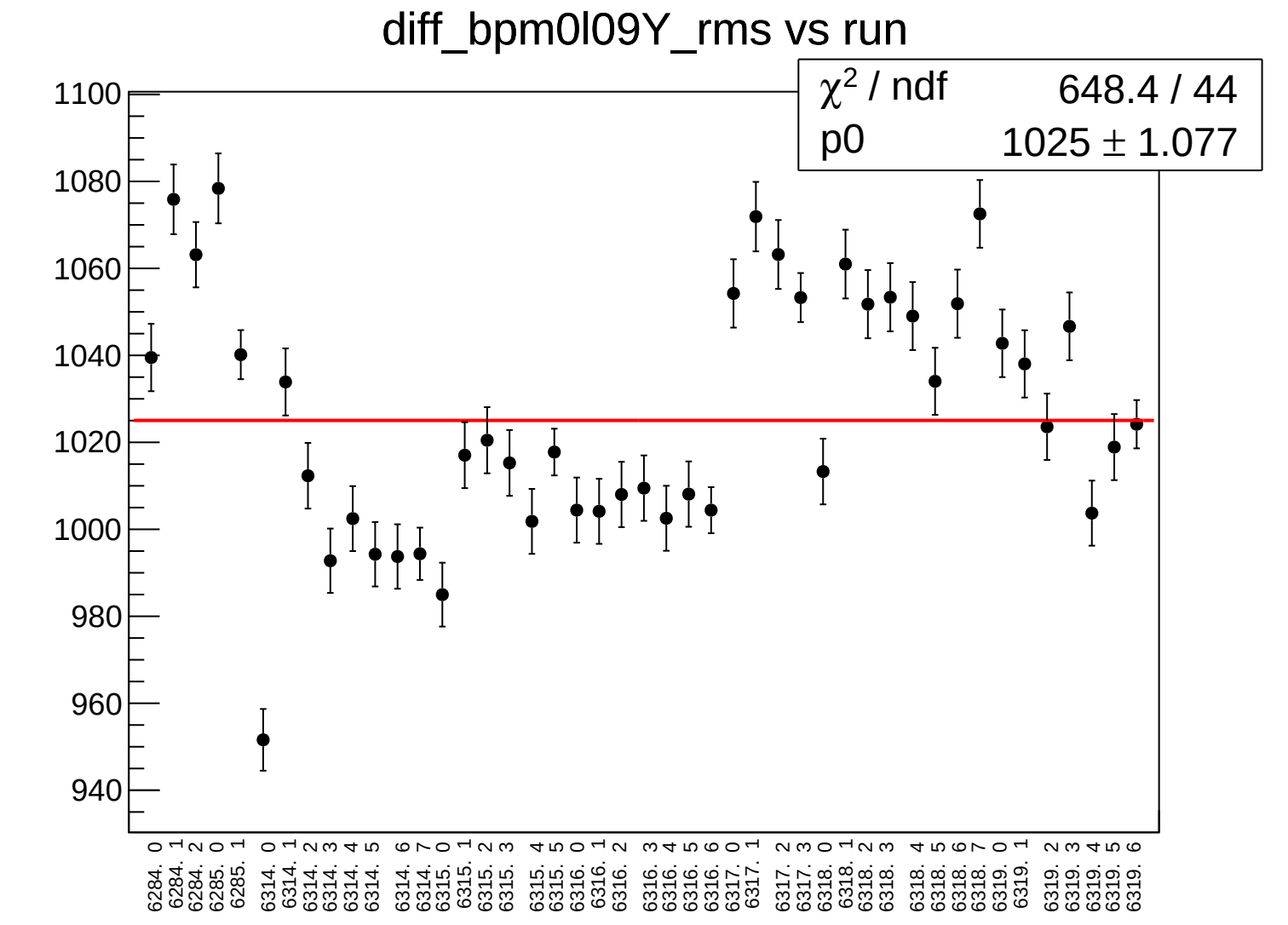

diff_bpm0l09X_mean vs run
χ² / ndf 33.19 / 44
p0 −3.938 ± 11.41
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 117.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

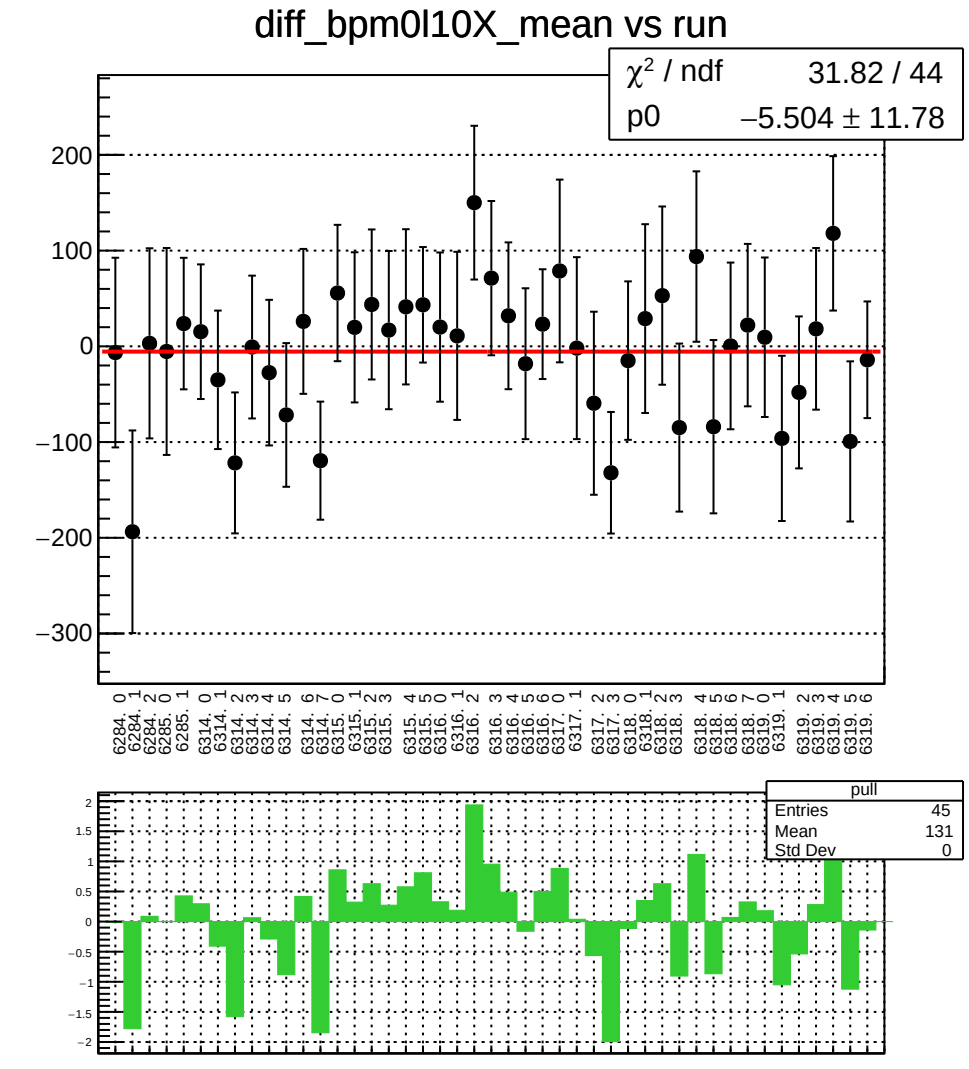

pull1D
Entries 45
Mean 0.008078
Std Dev 0.8588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

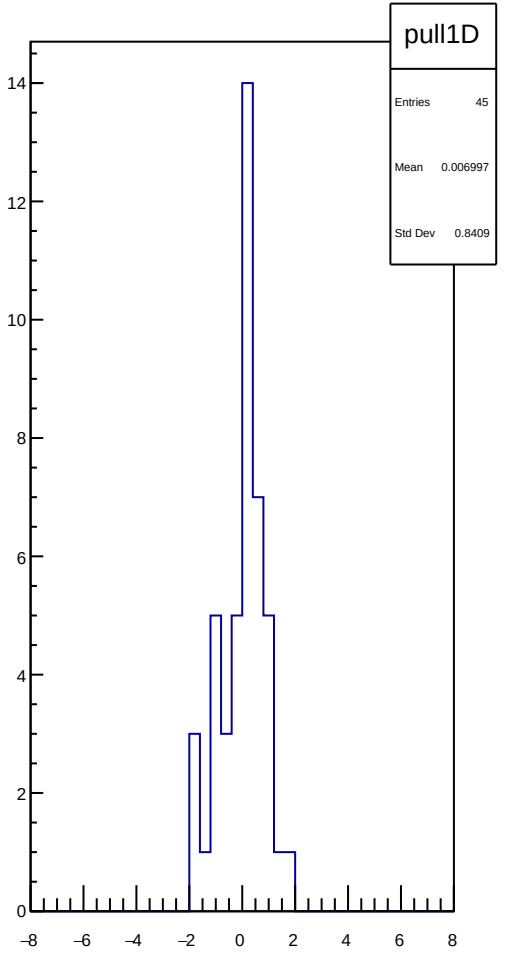

diff_bpm0l09X_rms vs run
χ² / ndf 9493 / 44
p0 7643 ± 8.068
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

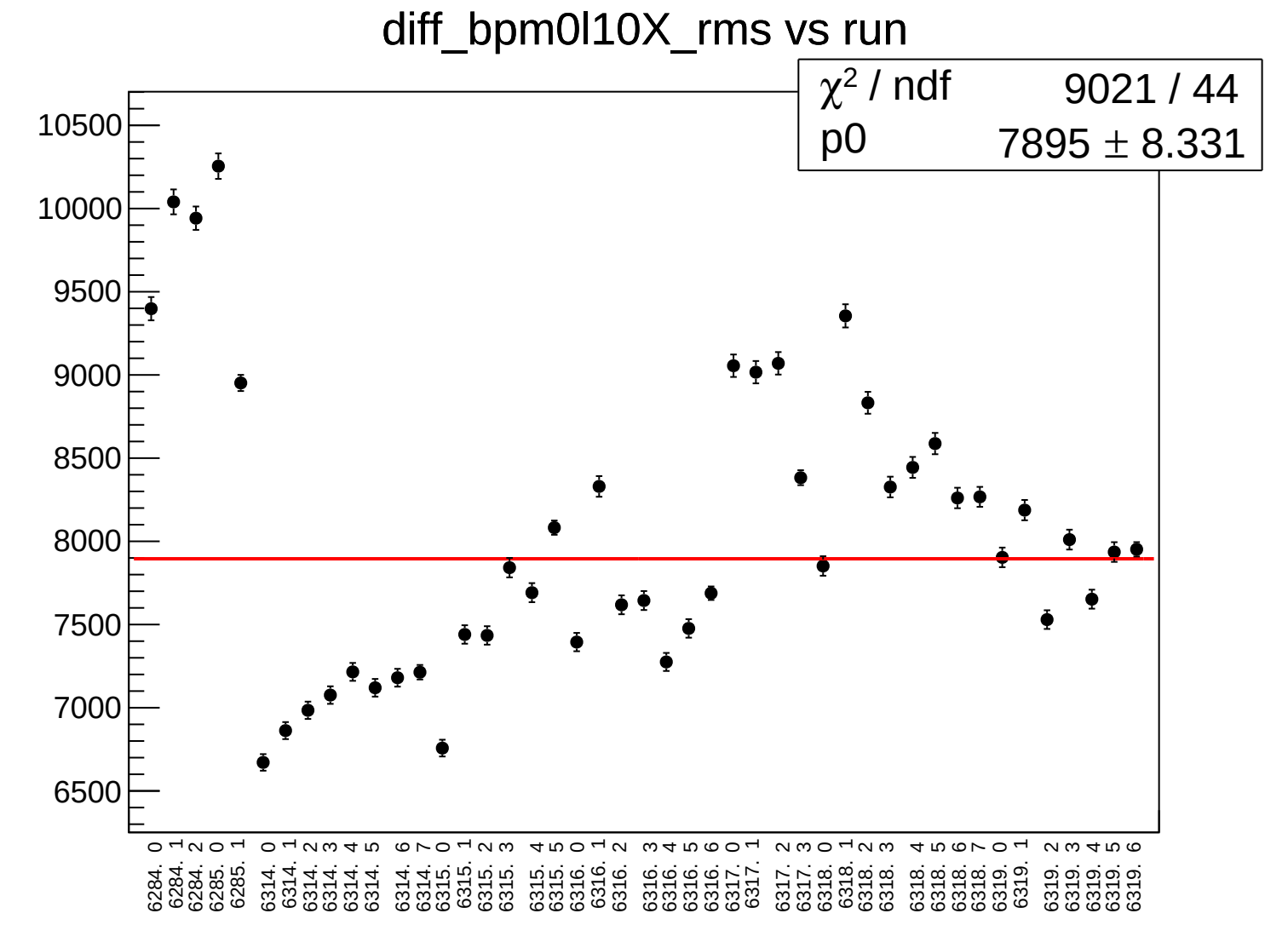

diff_bpm0l09Y_mean vs run
χ² / ndf 33.94 / 44
p0 3.996 ± 1.523
pull
Entries 45
Mean 58.05
Std Dev 4.907

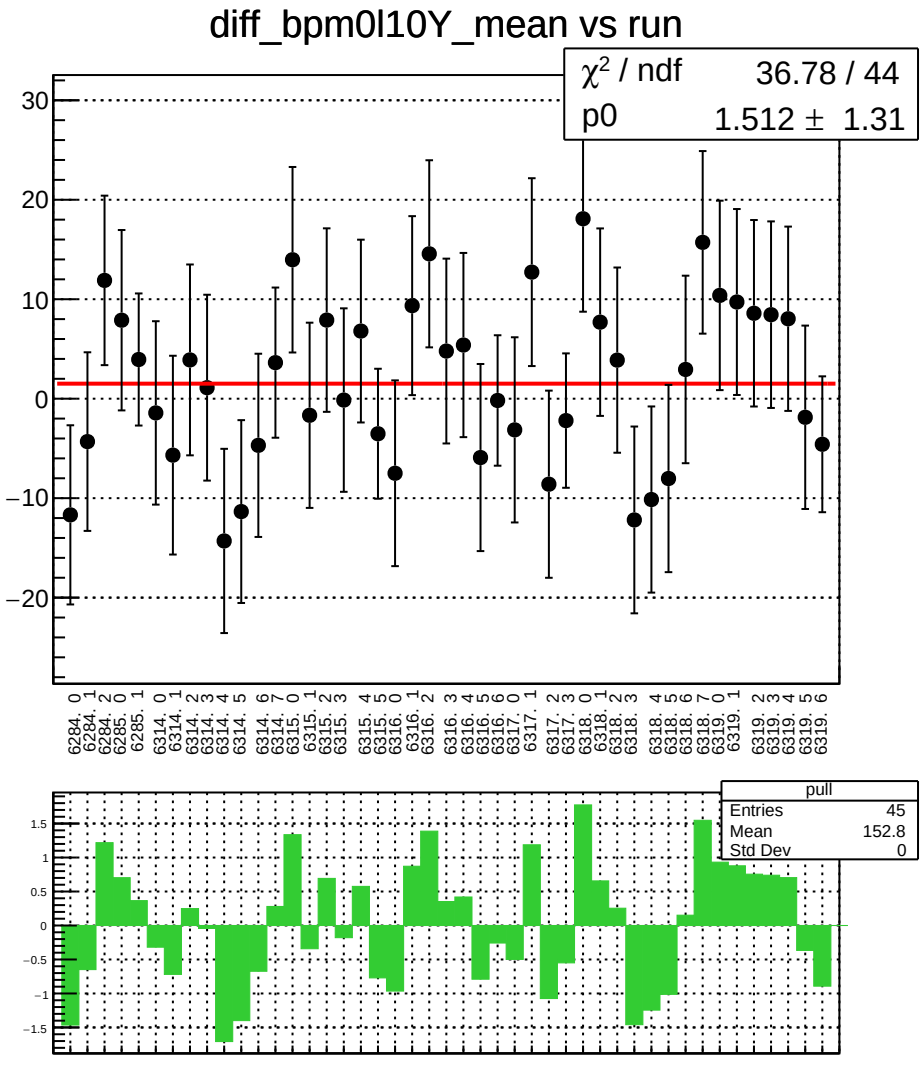

pull1D
Entries 45
Mean 0.0153
Std Dev 0.8683

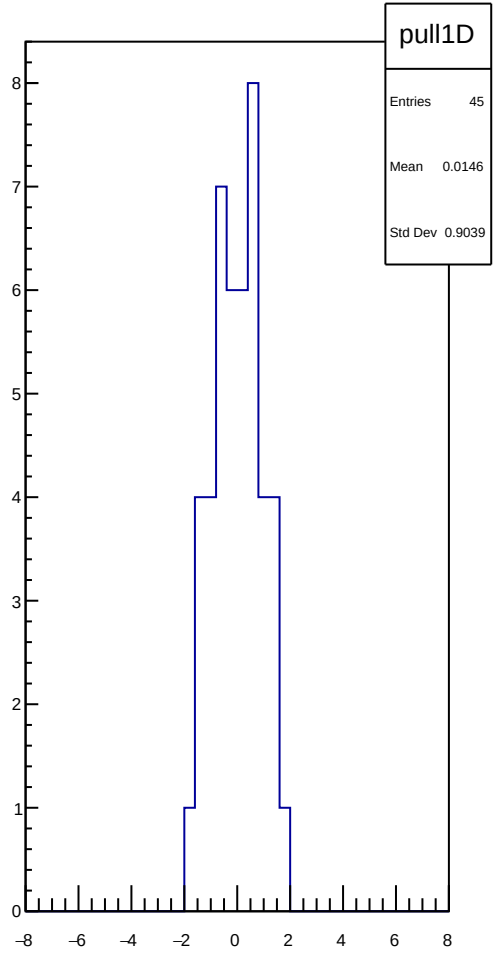

diff_bpm0l09Y_rms vs run
χ² / ndf 648.4 / 44
p0 1025 ± 1.077
1100
1080
1060
1040
1020
1000
980
960
940
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

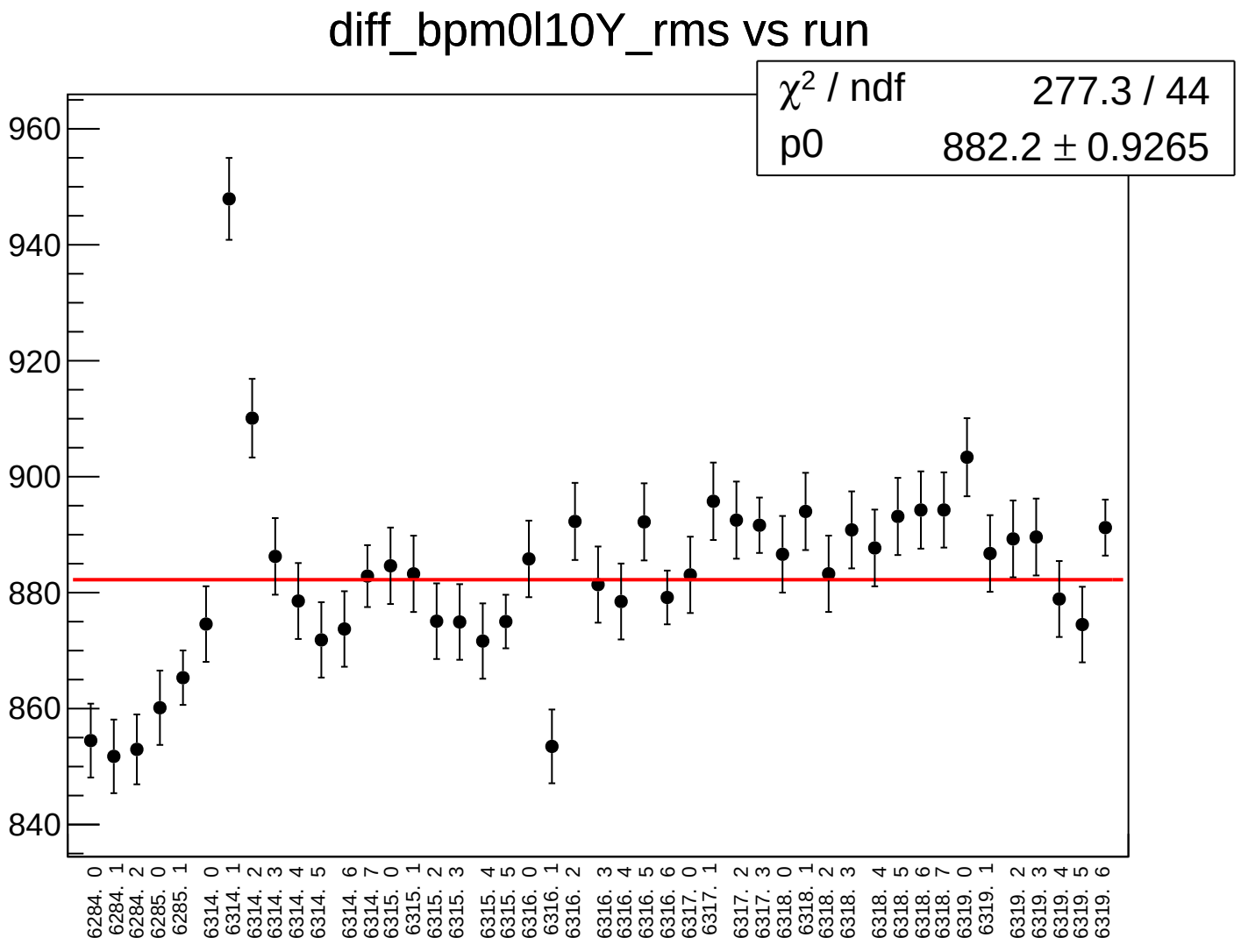

diff_bpm0l10X_mean vs run
χ² / ndf 31.82 / 44
p0 −5.504 ± 11.78
200
100
0
−100
−200
−300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 131
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

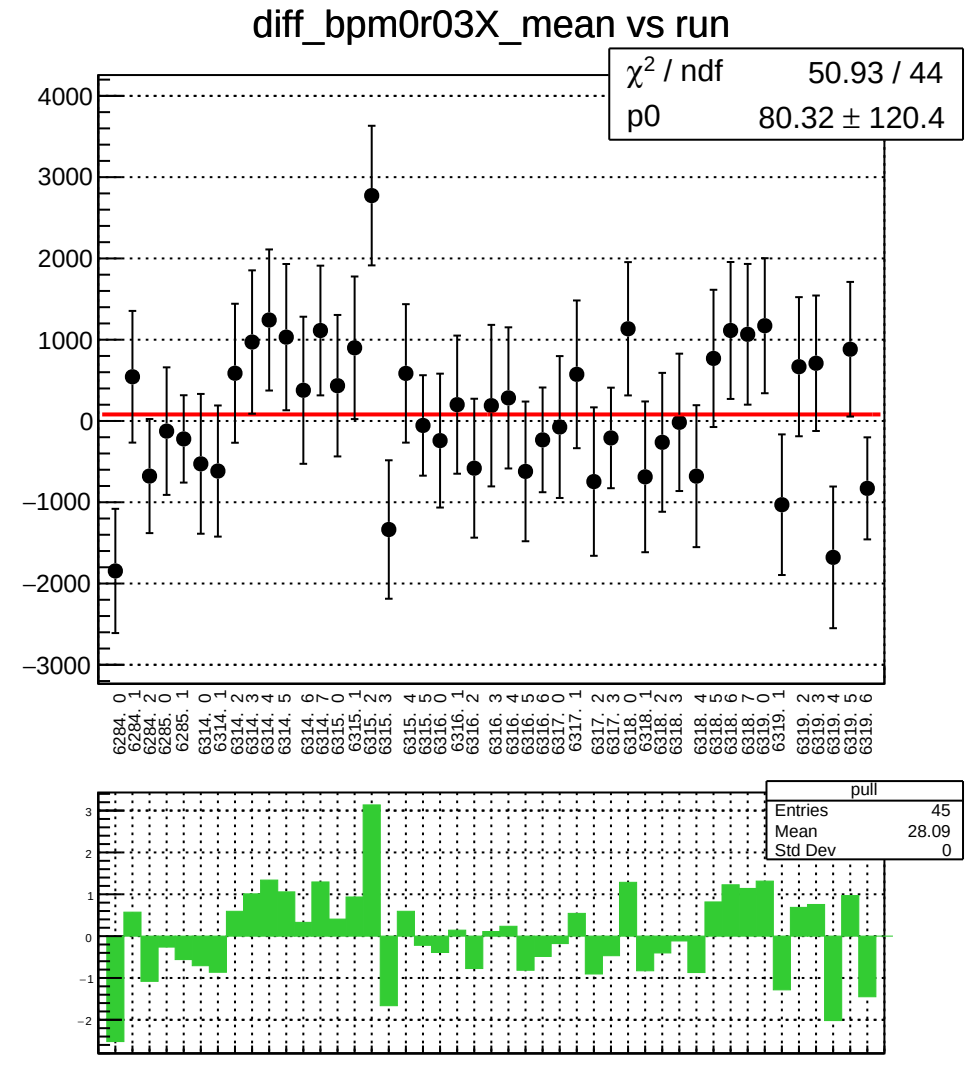

pull1D
Entries 45
Mean 0.006997
Std Dev 0.8409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

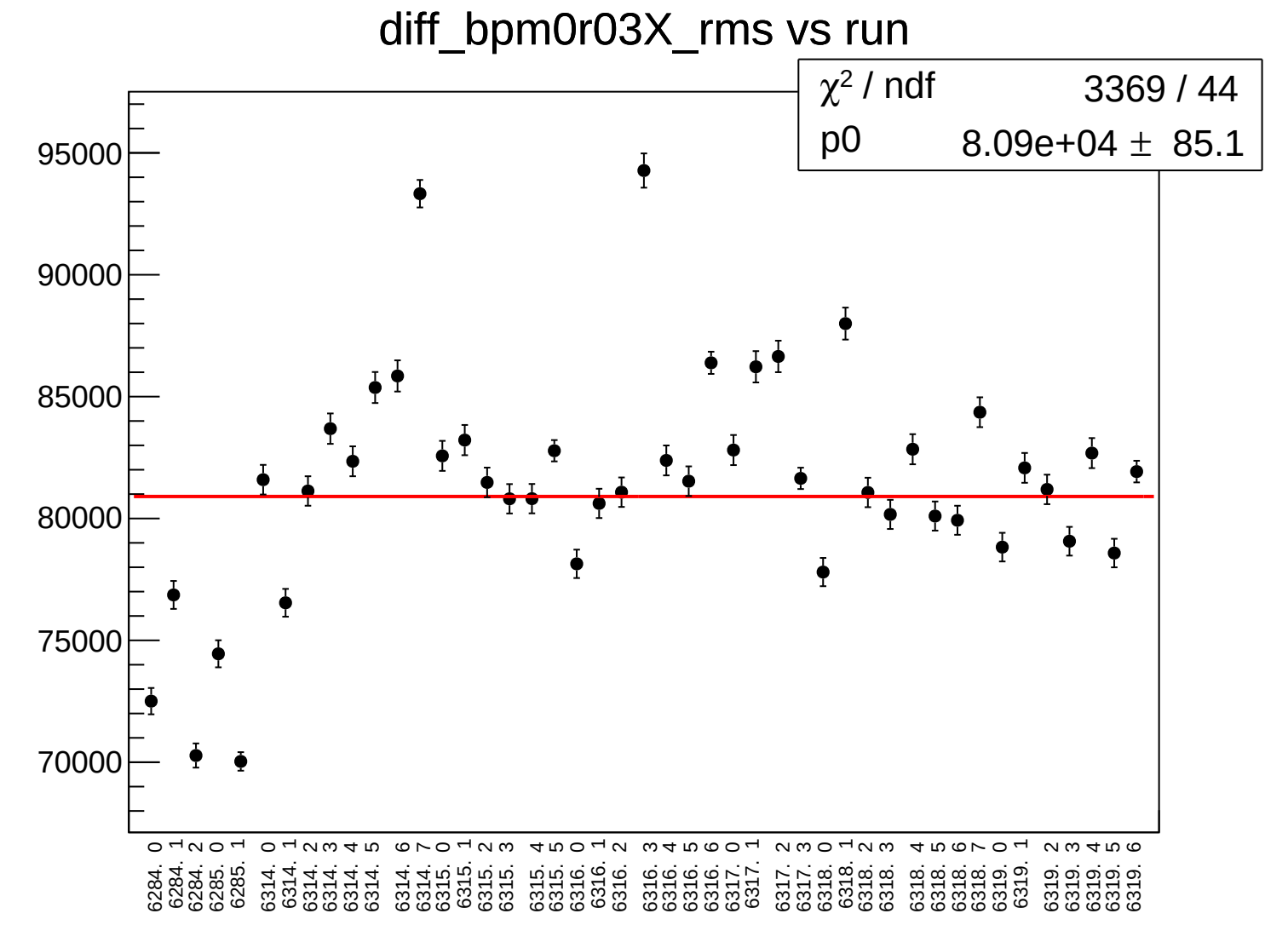

diff_bpm0l10X_rms vs run
χ² / ndf 9021 / 44
p0 7895 ± 8.331
10500
10000
9500
9000
8500
8000
7500
7000
6500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

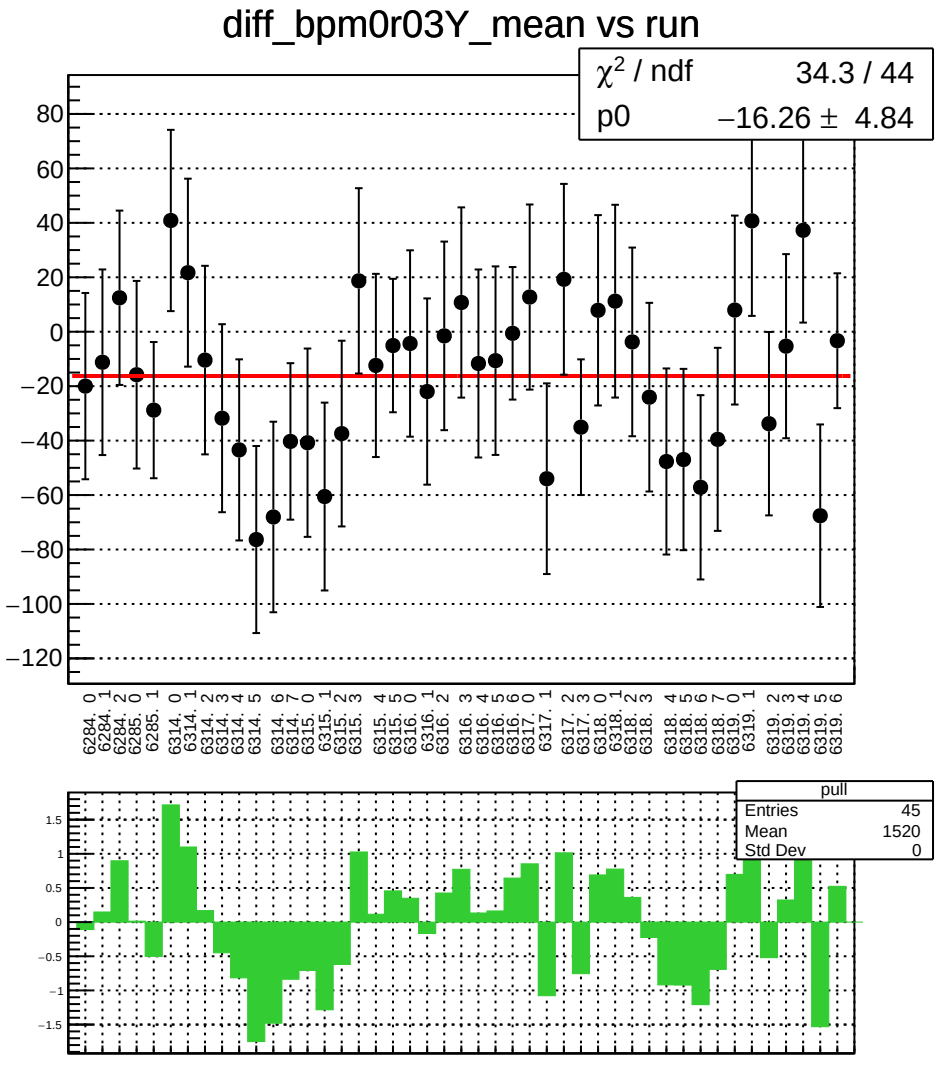

diff_bpm0l10Y_mean vs run
χ² / ndf 36.78 / 44
p0 1.512 ± 1.31
pull
Entries 45
Mean 152.8
Std Dev 0

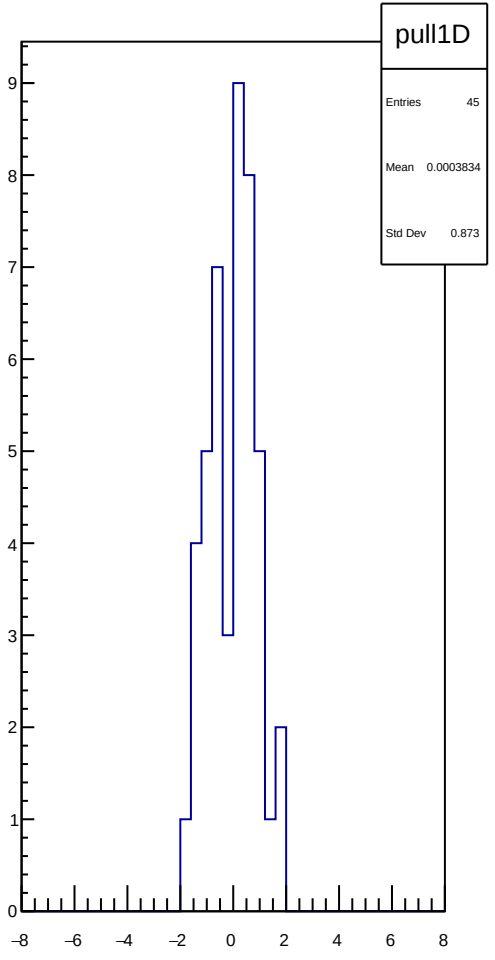

pull1D
Entries 45
Mean 0.0146
Std Dev 0.9039

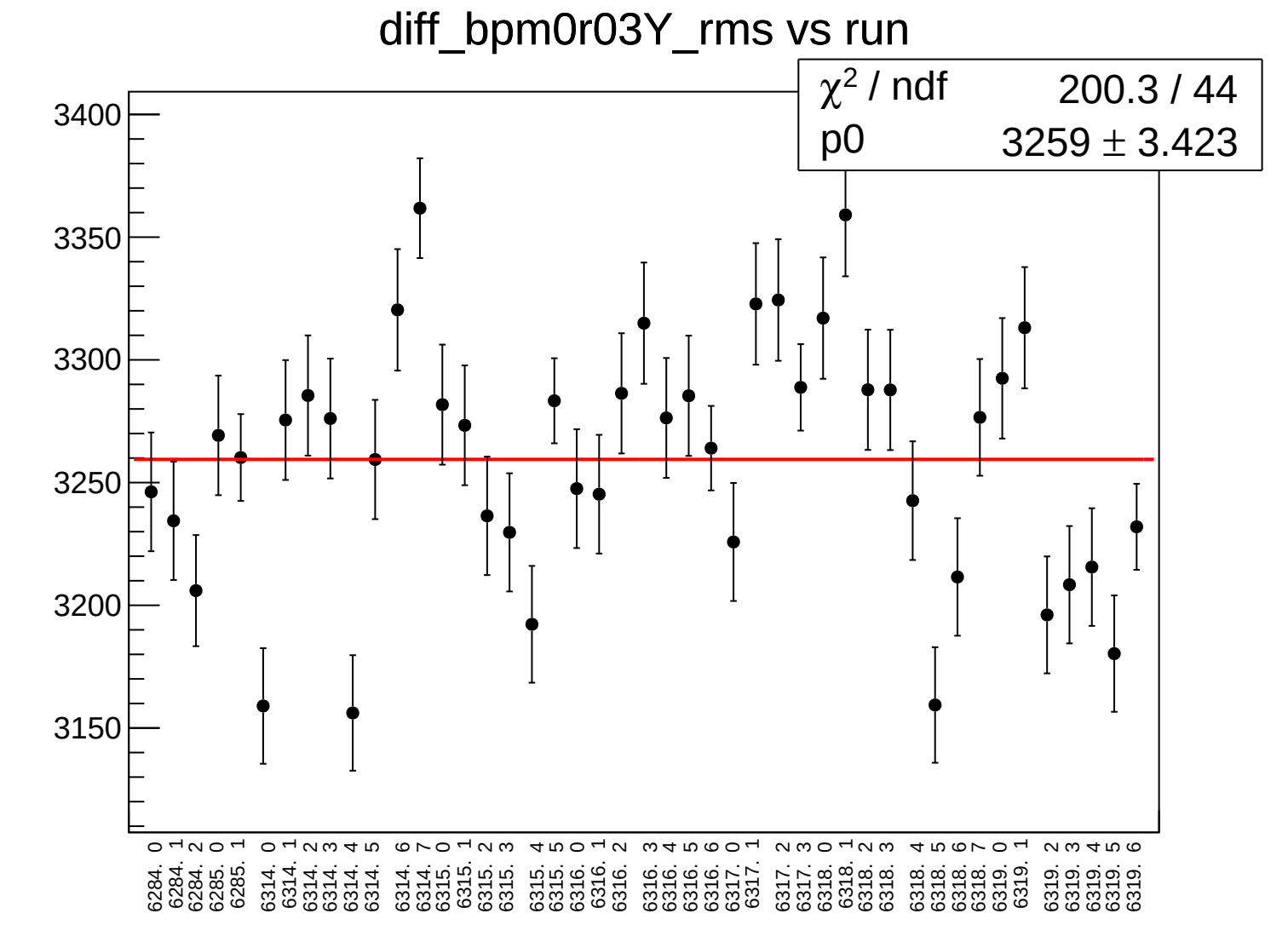

diff_bpm0l10Y_rms vs run
χ² / ndf 277.3 / 44
p0 882.2 ± 0.9265
960
940
920
900
880
860
840
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

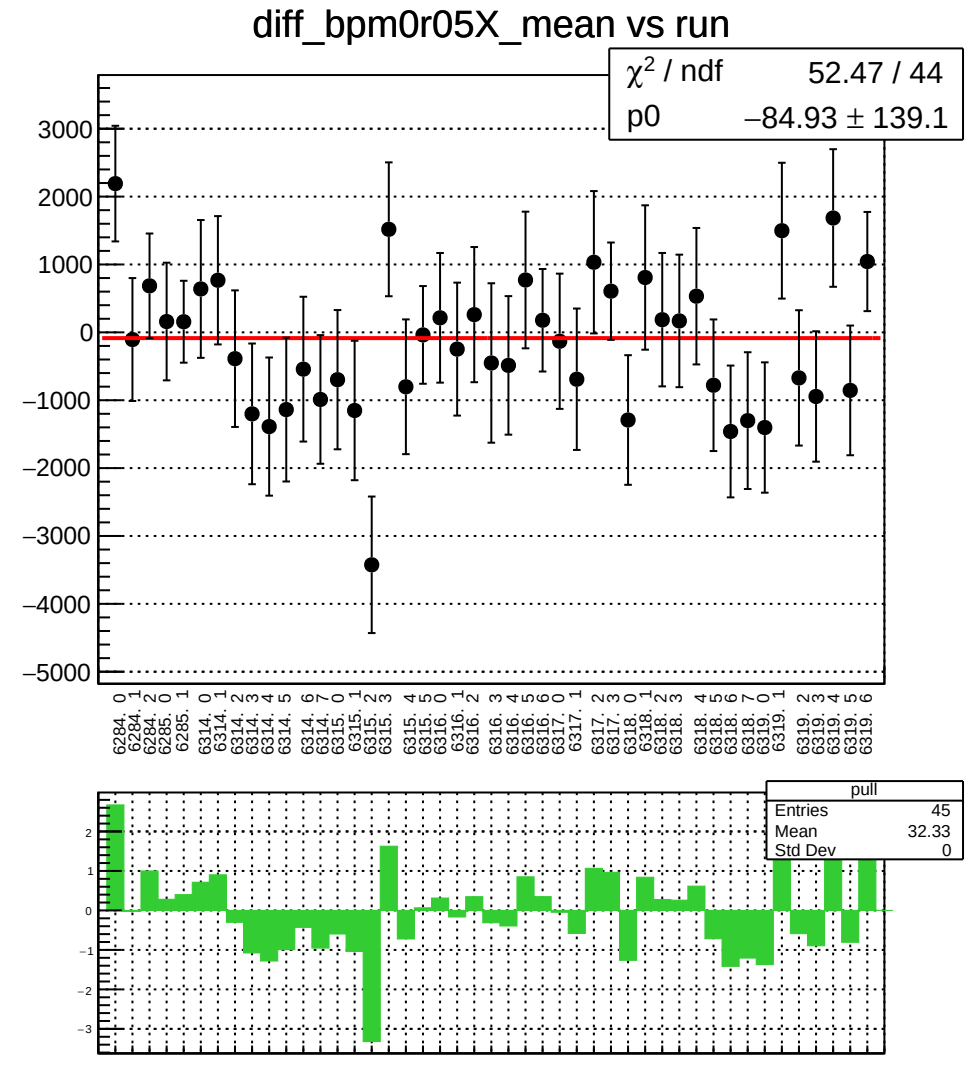

diff_bpm0r03X_mean vs run
χ² / ndf 50.93 / 44
p0 80.32 ± 120.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 28.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03637
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

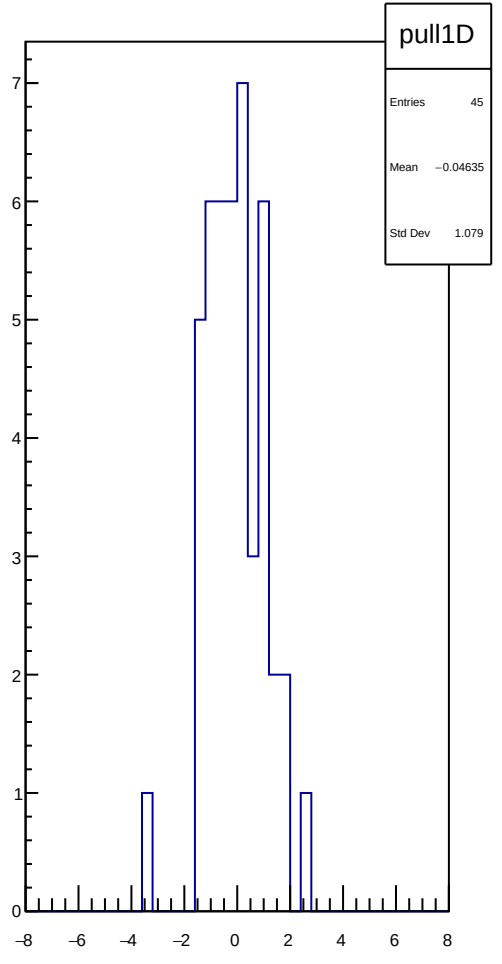

diff_bpm0r03X_rms vs run
χ² / ndf 3369 / 44
p0 8.09e+04 ± 85.1
95000
90000
85000
80000
75000
70000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

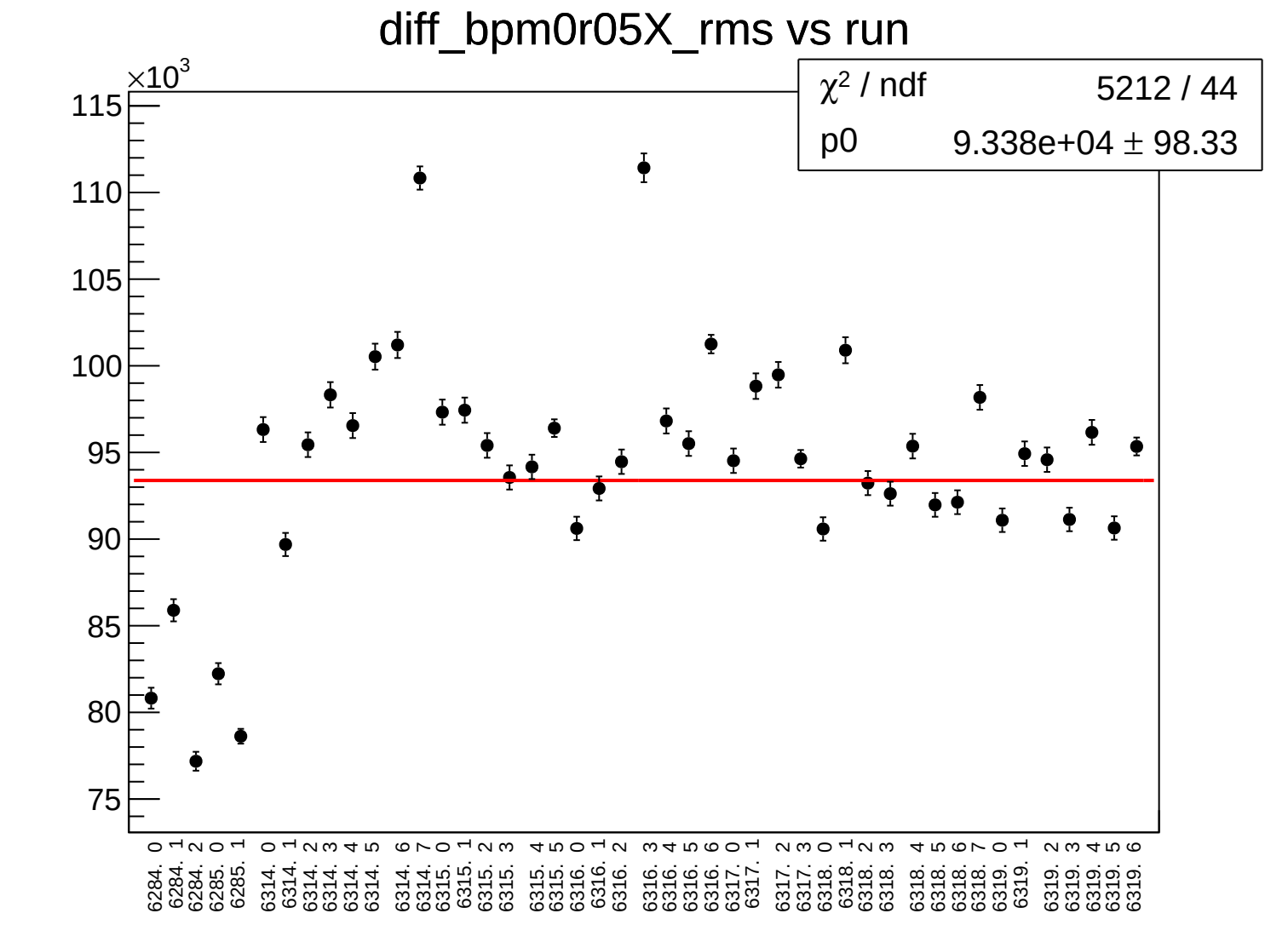

diff_bpm0r03Y_mean vs run
χ² / ndf 34.3 / 44
p0 −16.26 ± 4.84
pull
Entries 45
Mean 1520
Std Dev 0

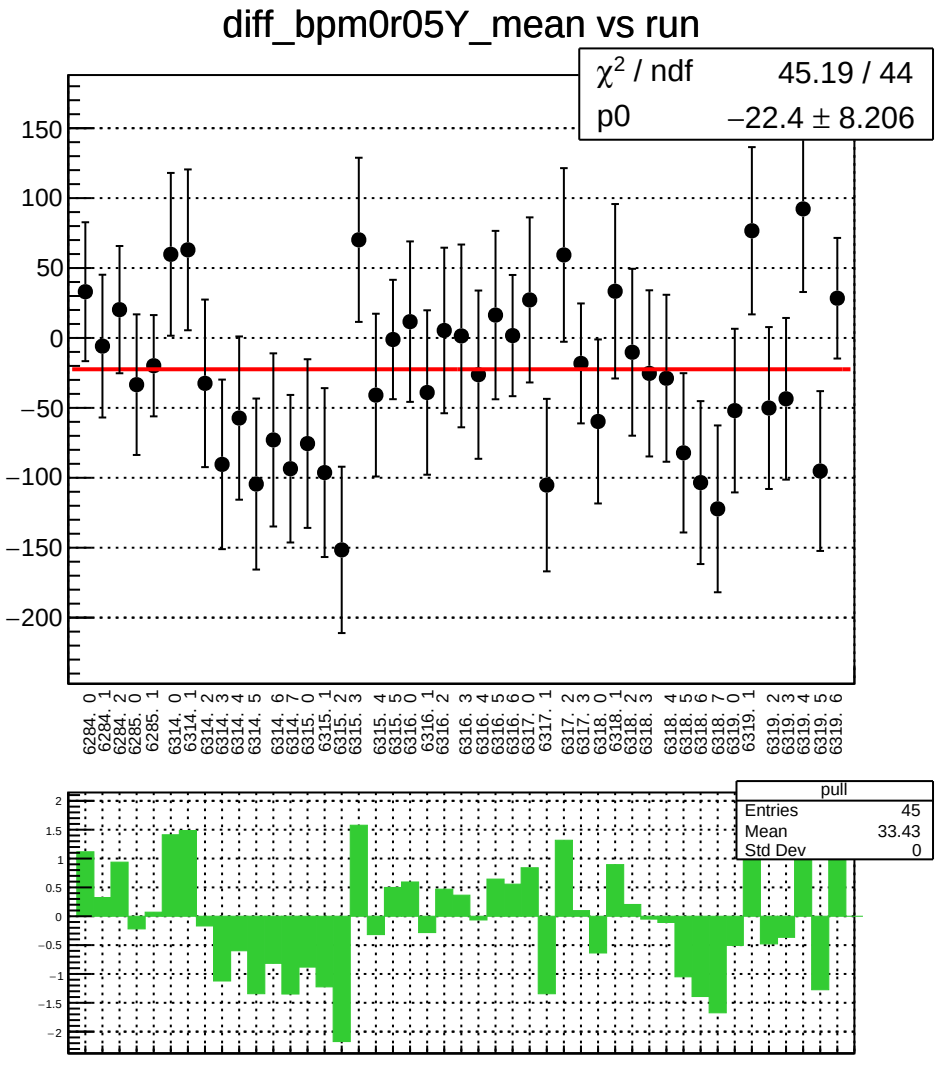

pull1D
Entries 45
Mean 0.0003834
Std Dev 0.873

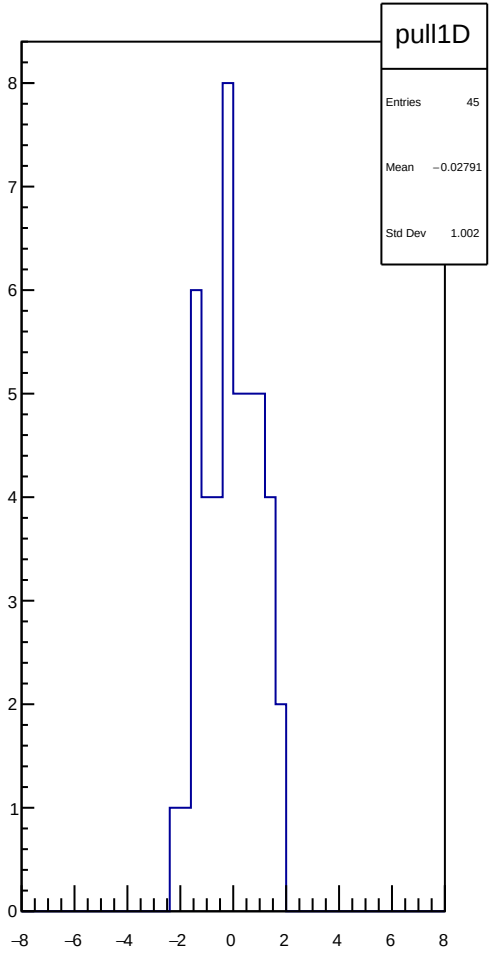

diff_bpm0r03Y_rms vs run
χ² / ndf 200.3 / 44
p0 3259 ± 3.423
3400
3350
3300
3250
3200
3150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

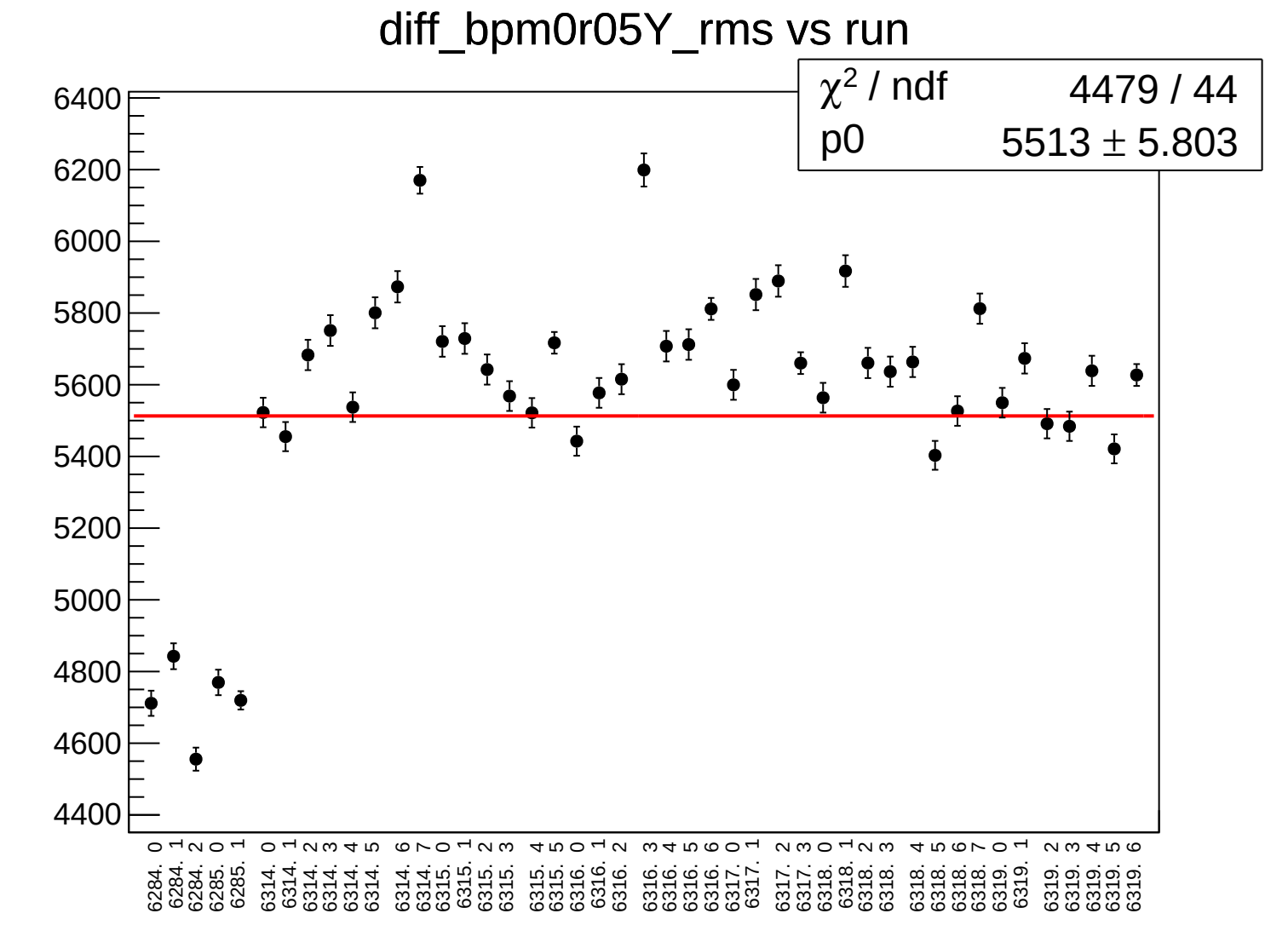

diff_bpm0r05X_mean vs run
χ² / ndf 52.47 / 44
p0 −84.93 ± 139.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 32.33
Std Dev 0
2
1
0
−1
−2
−3

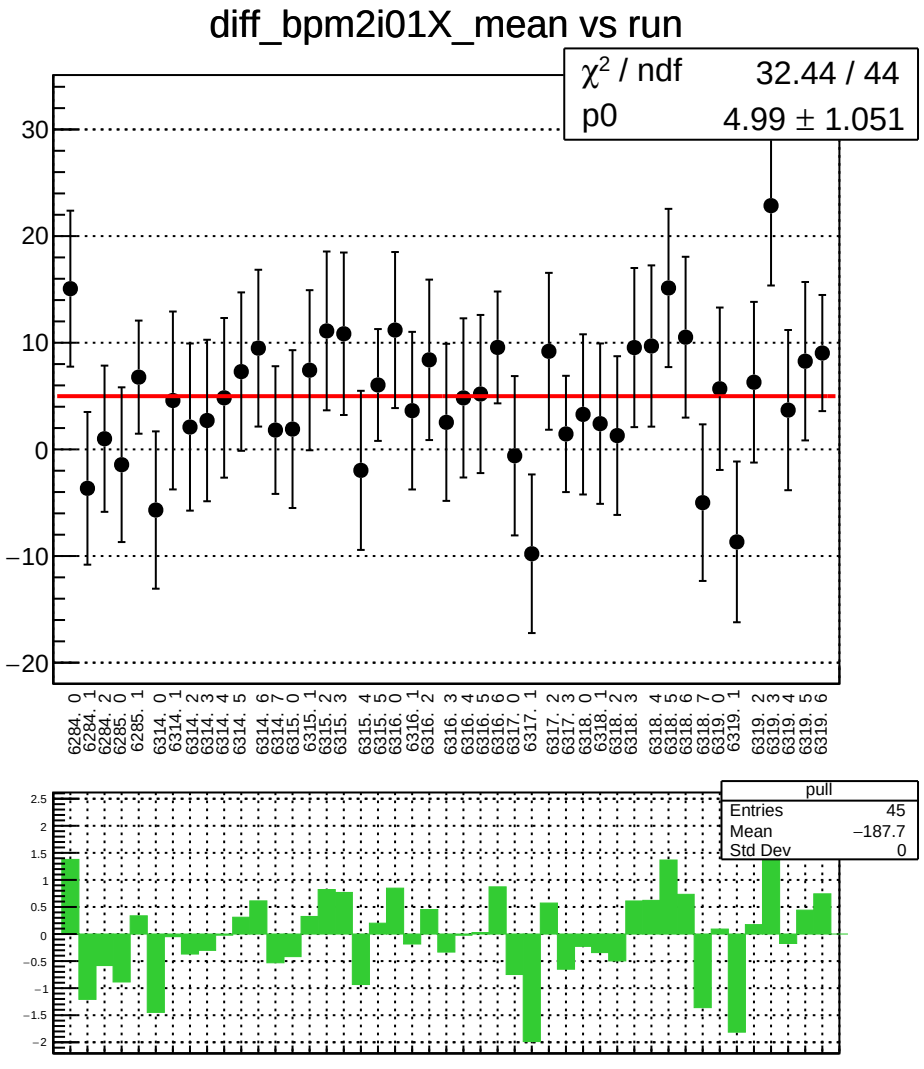

pull1D
Entries 45
Mean −0.04635
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

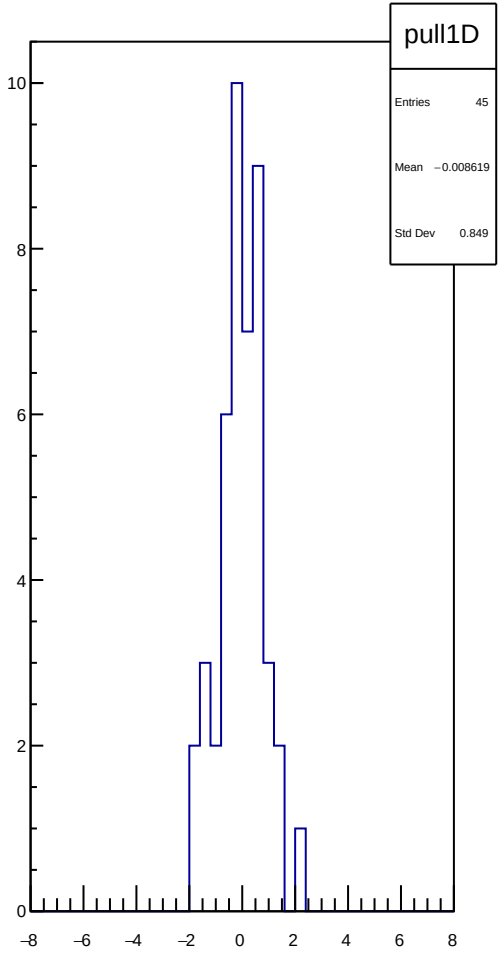

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5212 / 44
p0 9.338e+04 ± 98.33
115
110
105
100
95
90
85
80
75
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

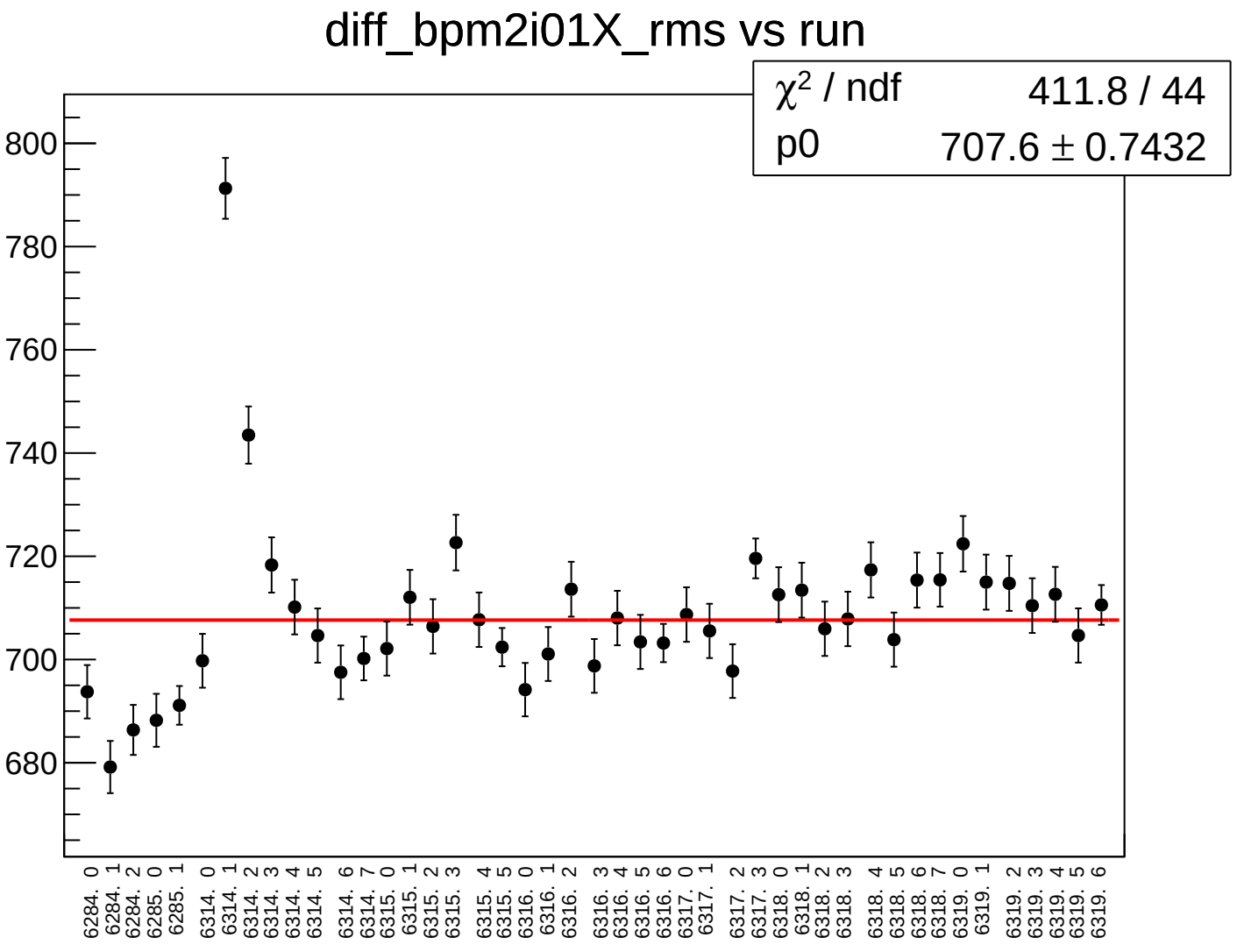

diff_bpm0r05Y_mean vs run
χ² / ndf 45.19 / 44
p0 −22.4 ± 8.206
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

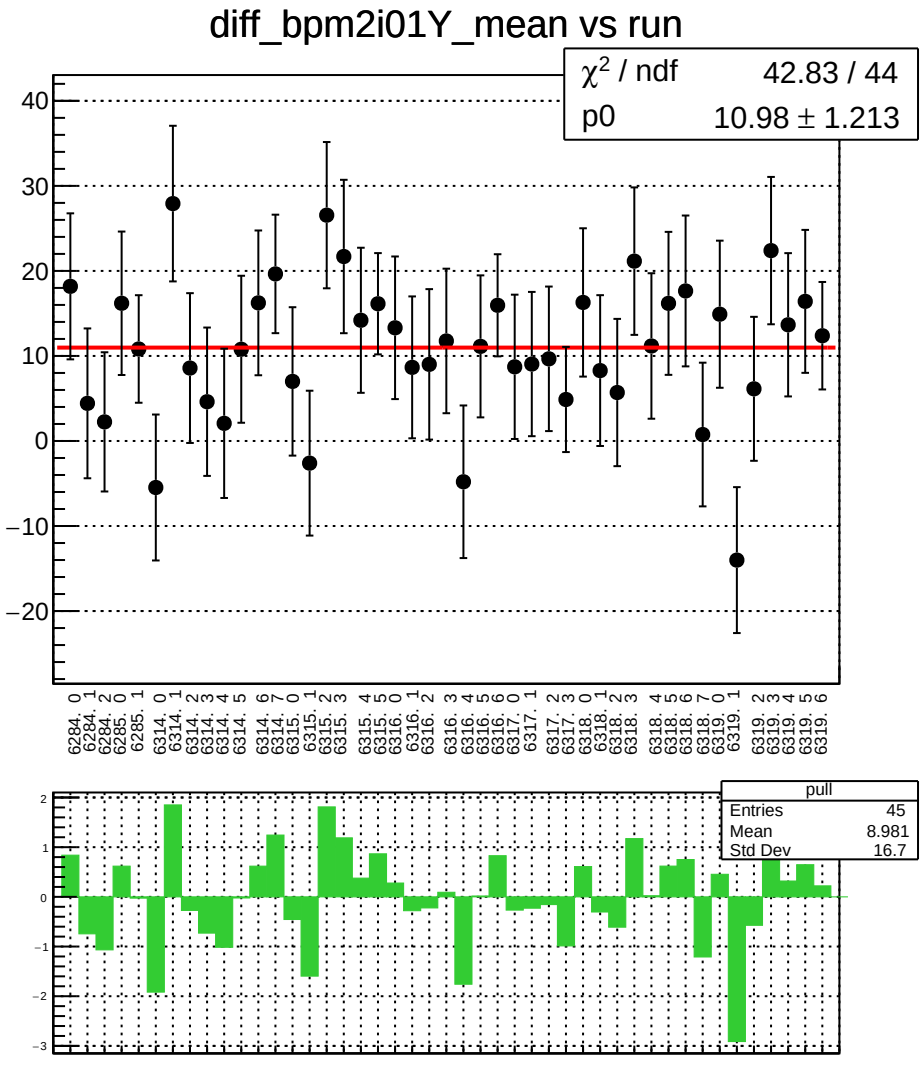

pull1D
Entries 45
Mean −0.02791
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

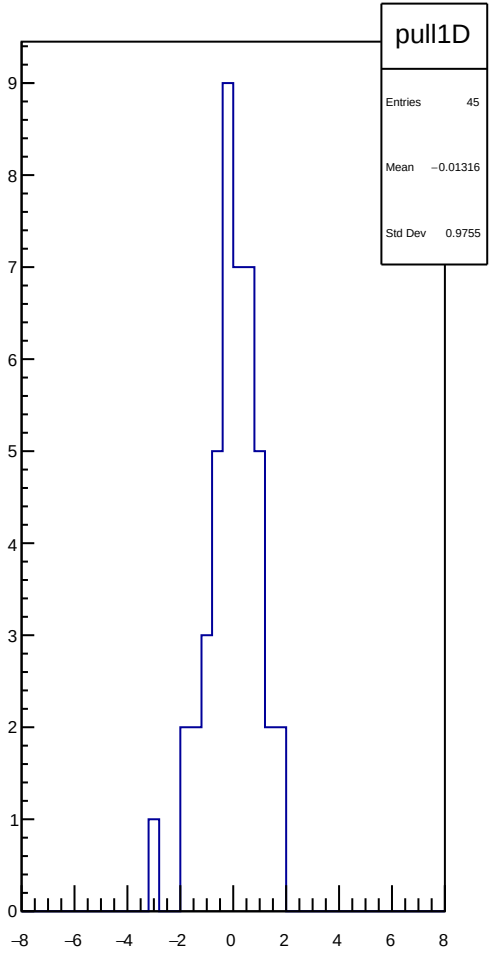

diff_bpm0r05Y_rms vs run
χ² / ndf 4479 / 44
p0 5513 ± 5.803
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

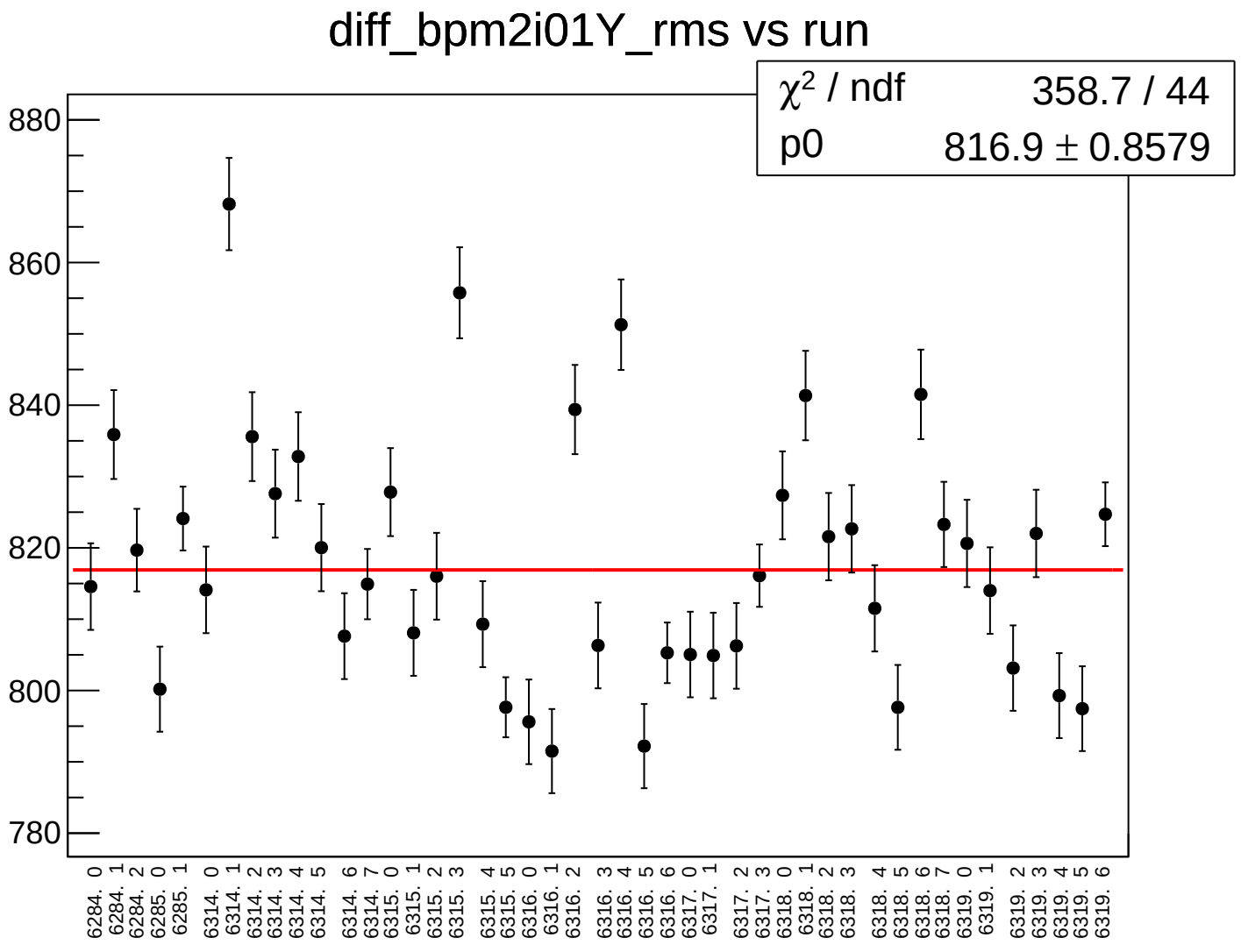

diff_bpm2i01X_mean vs run
χ² / ndf 32.44 / 44
p0 4.99 ± 1.051
pull
Entries 45
Mean −187.7
Std Dev 0

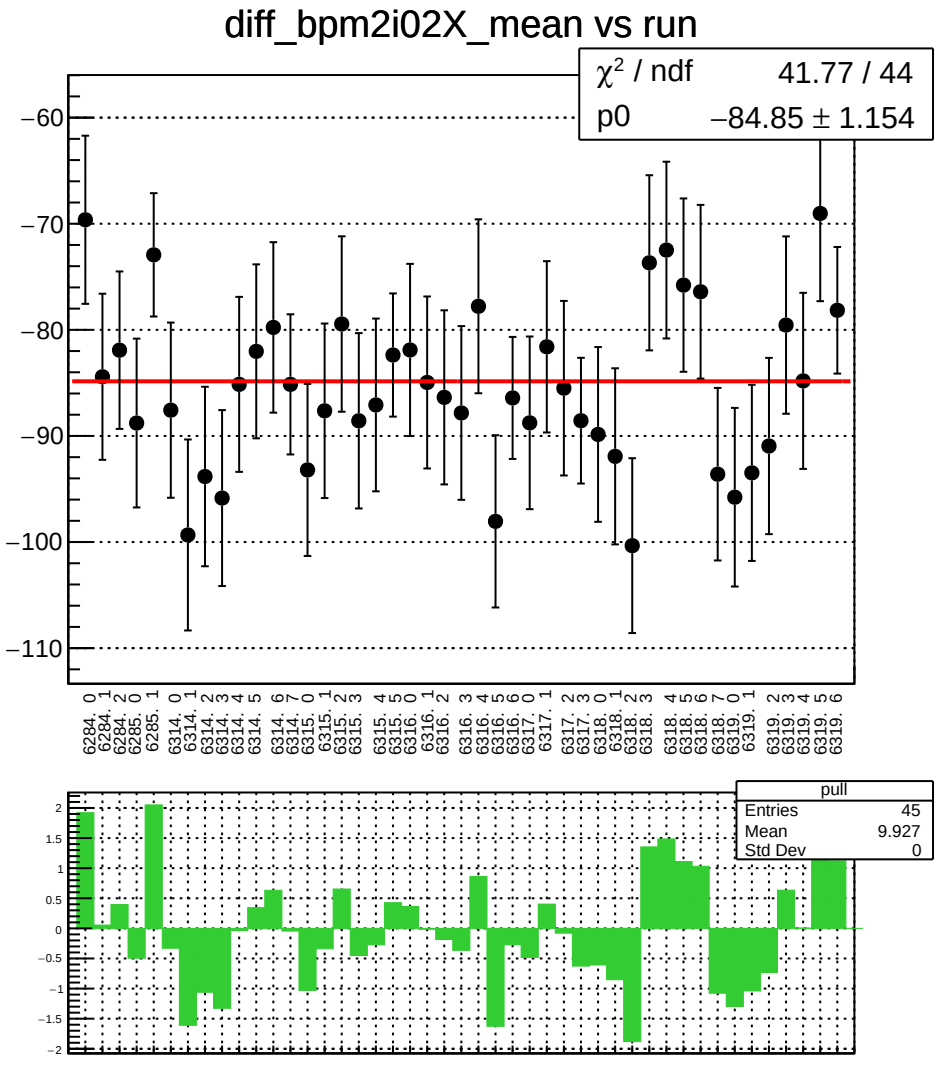

pull1D
Entries 45
Mean −0.008619
Std Dev 0.849

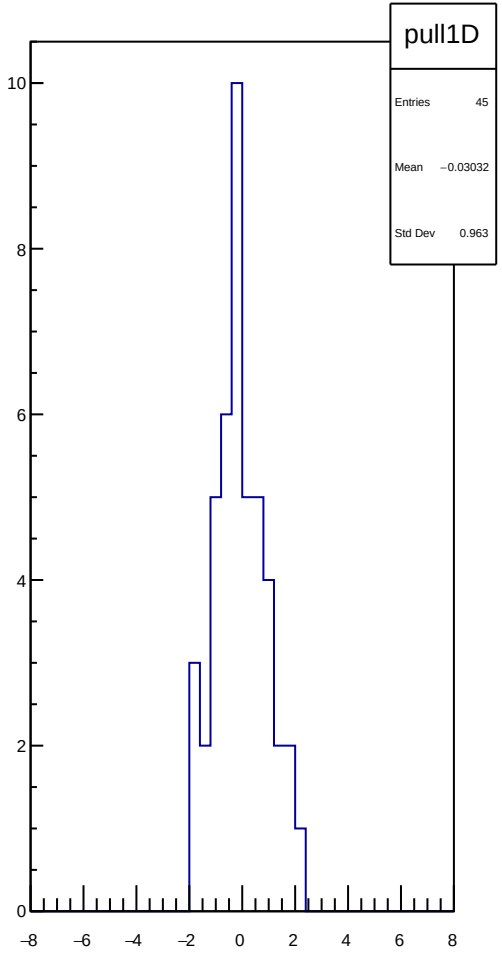

diff_bpm2i01X_rms vs run
χ² / ndf 411.8 / 44
p0 707.6 ± 0.7432
800
780
760
740
720
700
680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

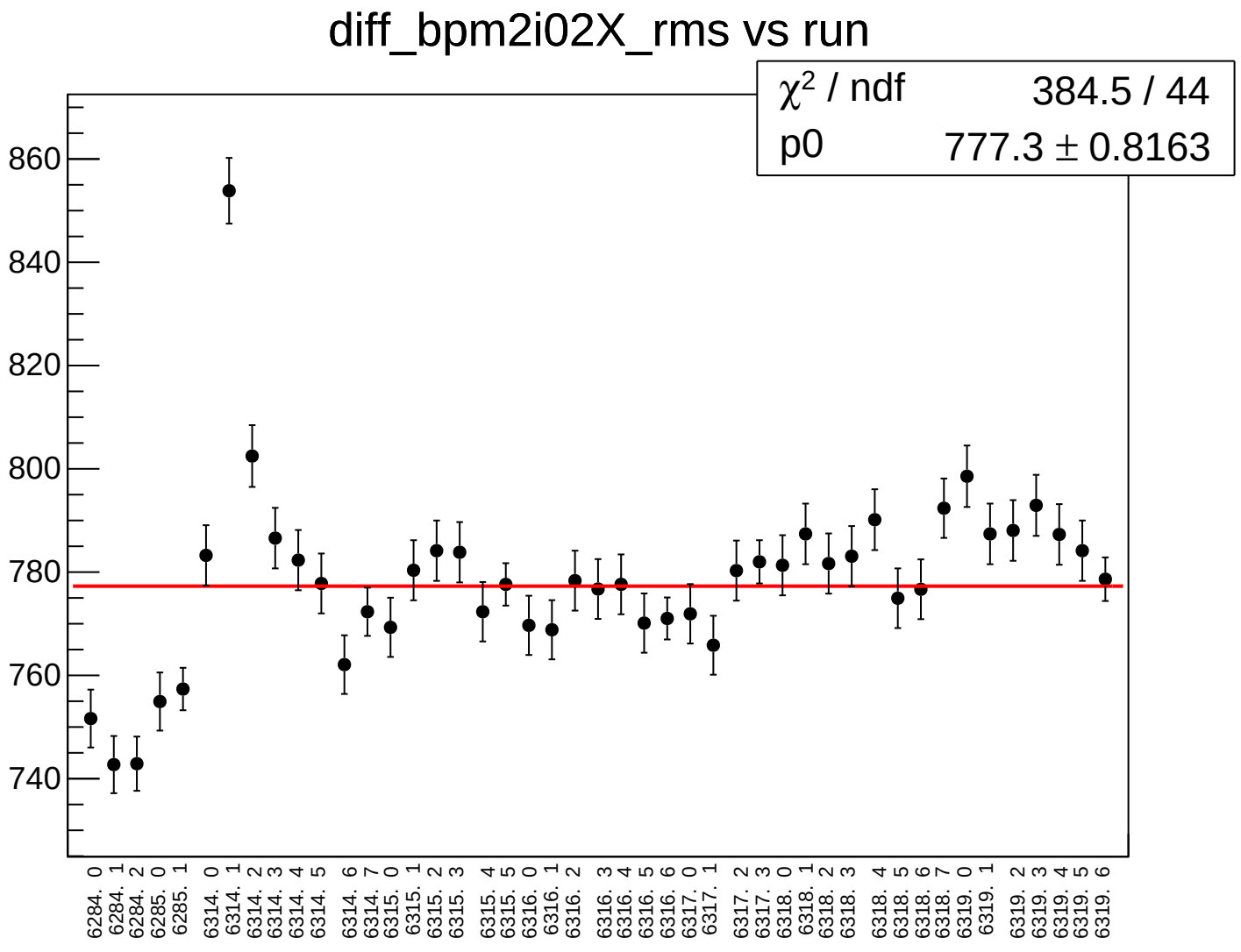

diff_bpm2i01Y_mean vs run
χ² / ndf 42.83 / 44
p0 10.98 ± 1.213
pull
Entries 45
Mean 8.981
Std Dev 16.7

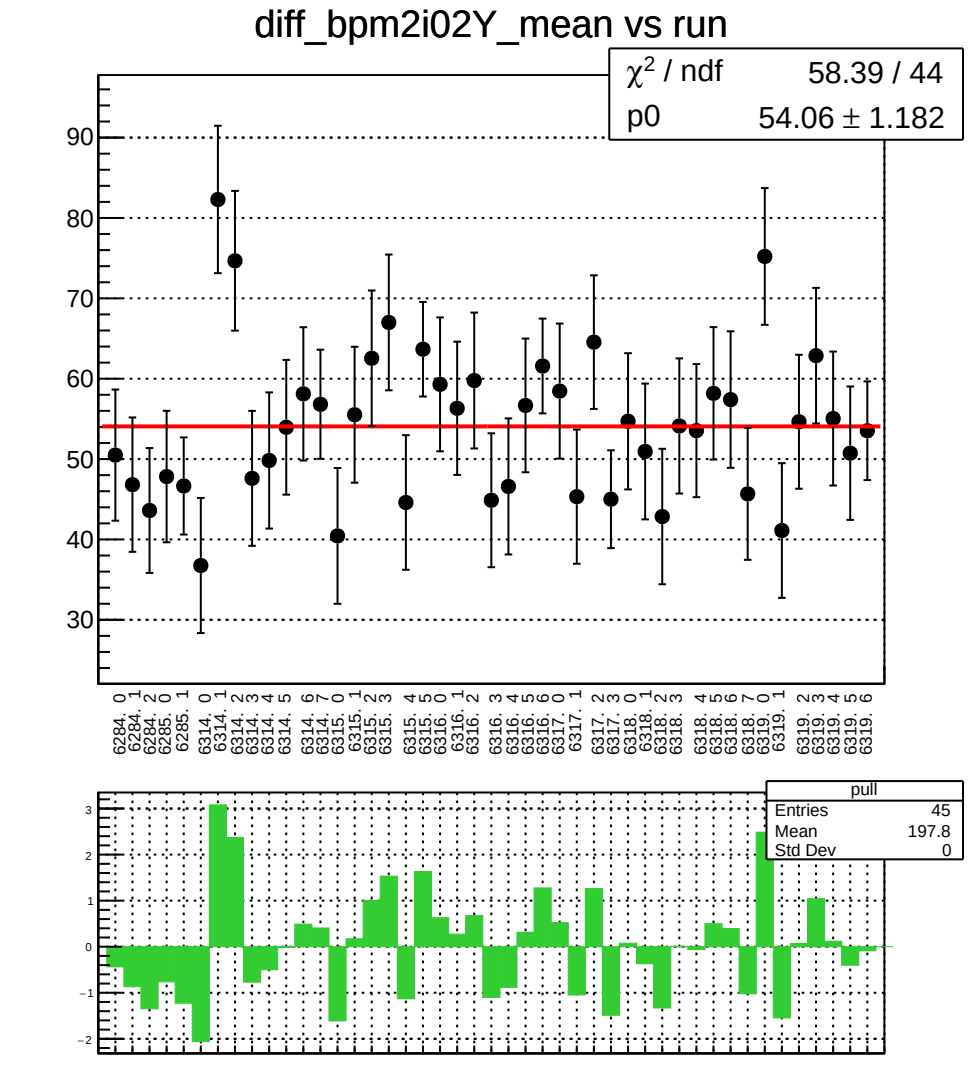

pull1D
Entries 45
Mean −0.01316
Std Dev 0.9755

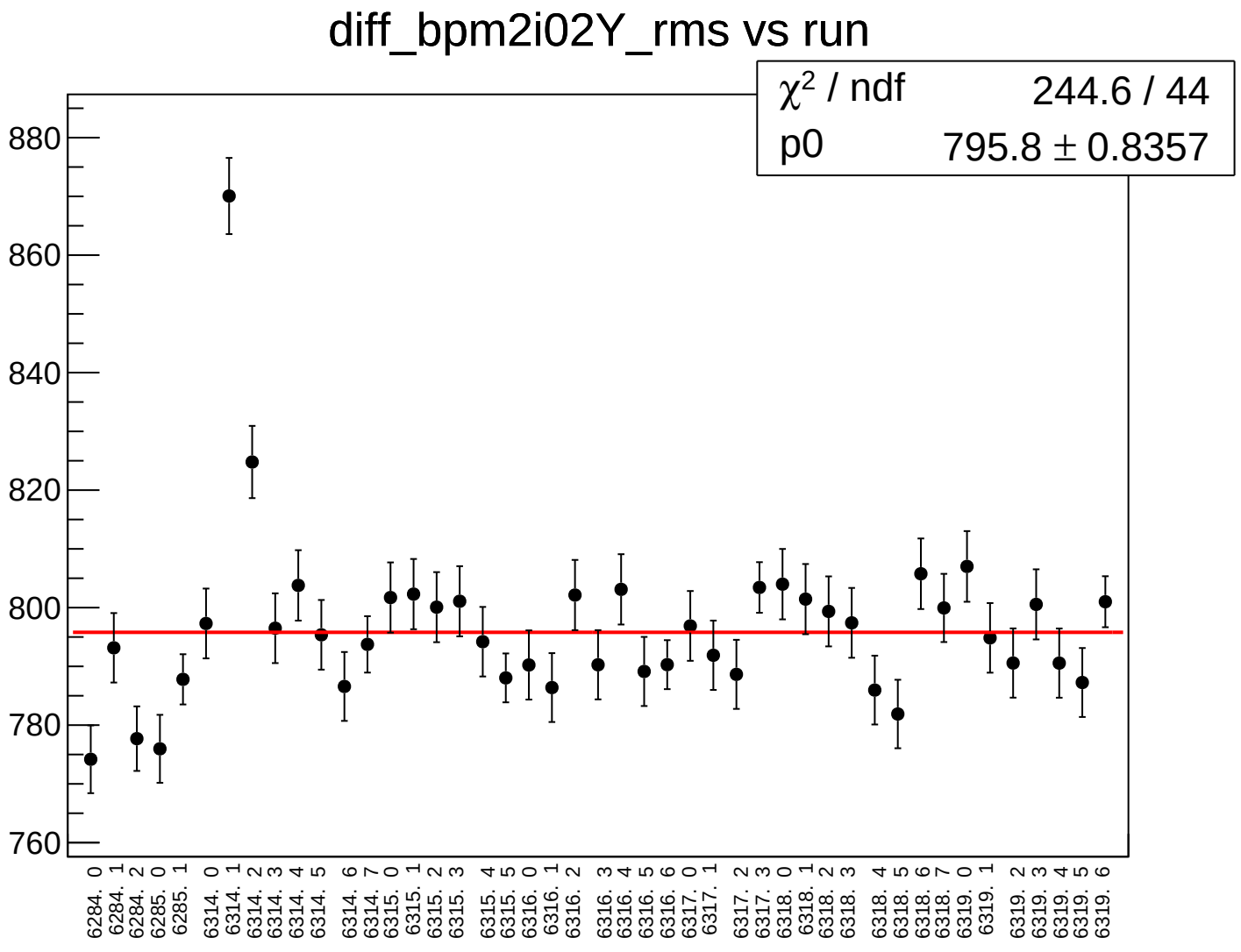

diff_bpm2i01Y_rms vs run
χ² / ndf 358.7 / 44
p0 816.9 ± 0.8579
880
860
840
820
800
780
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm2i02X_mean vs run
χ² / ndf 41.77 / 44
p0 −84.85 ± 1.154
pull
Entries 45
Mean 9.927
Std Dev 0


pull1D
Entries 45
Mean −0.03032
Std Dev 0.963


diff_bpm2i02X_rms vs run
χ² / ndf 384.5 / 44
p0 777.3 ± 0.8163
860
840
820
800
780
760
740
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm2i02Y_mean vs run
χ² / ndf 58.39 / 44
p0 54.06 ± 1.182
pull
Entries 45
Mean 197.8
Std Dev 0
pull1D
Entries 45
Mean 0.005896
Std Dev 1.139


diff_bpm2i02Y_rms vs run
χ² / ndf 244.6 / 44
p0 795.8 ± 0.8357
880
860
840
820
800
780
760
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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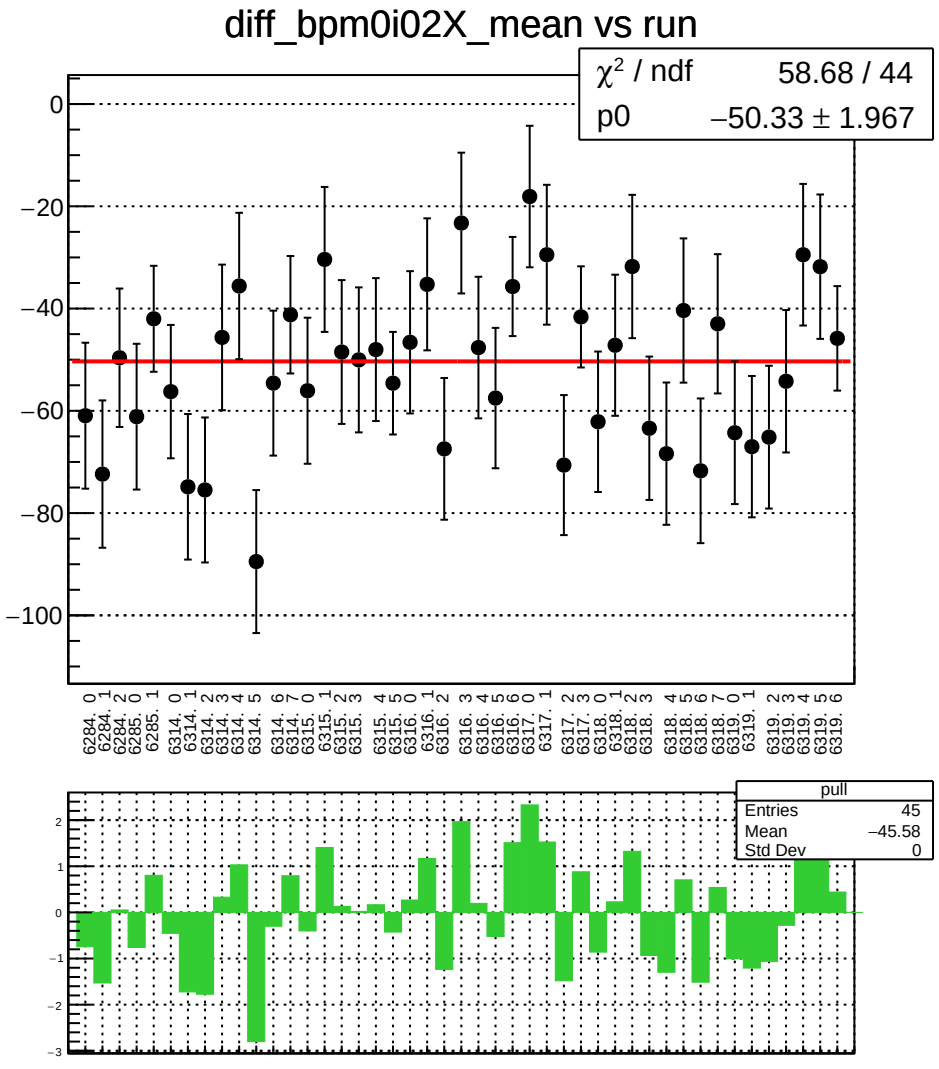
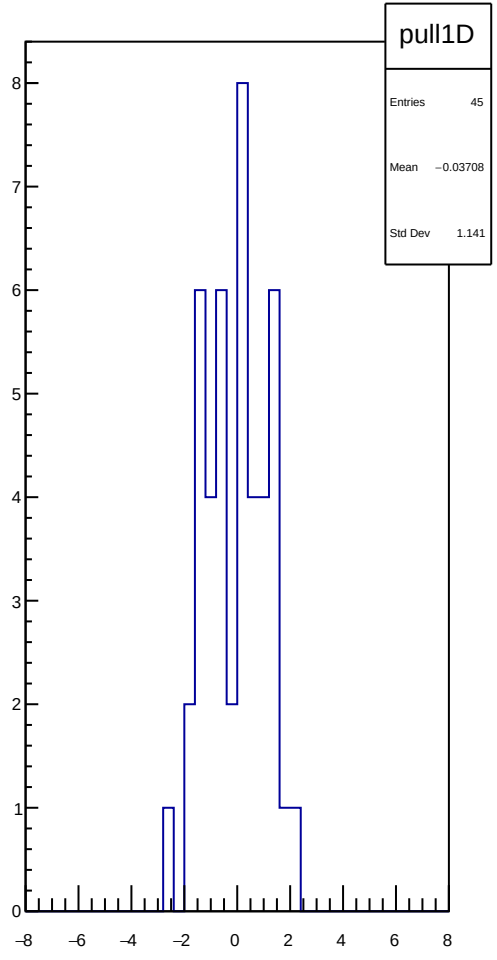
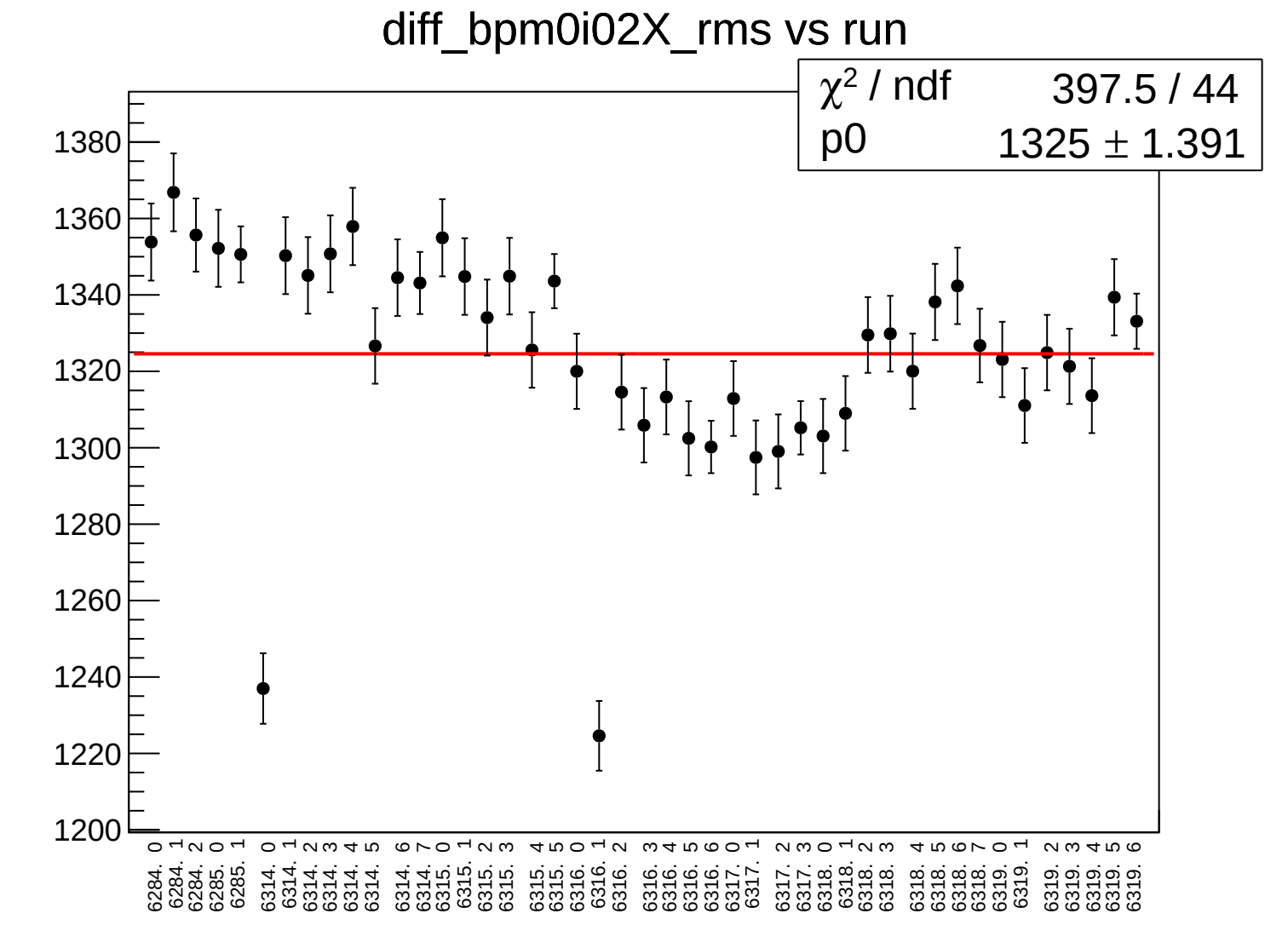
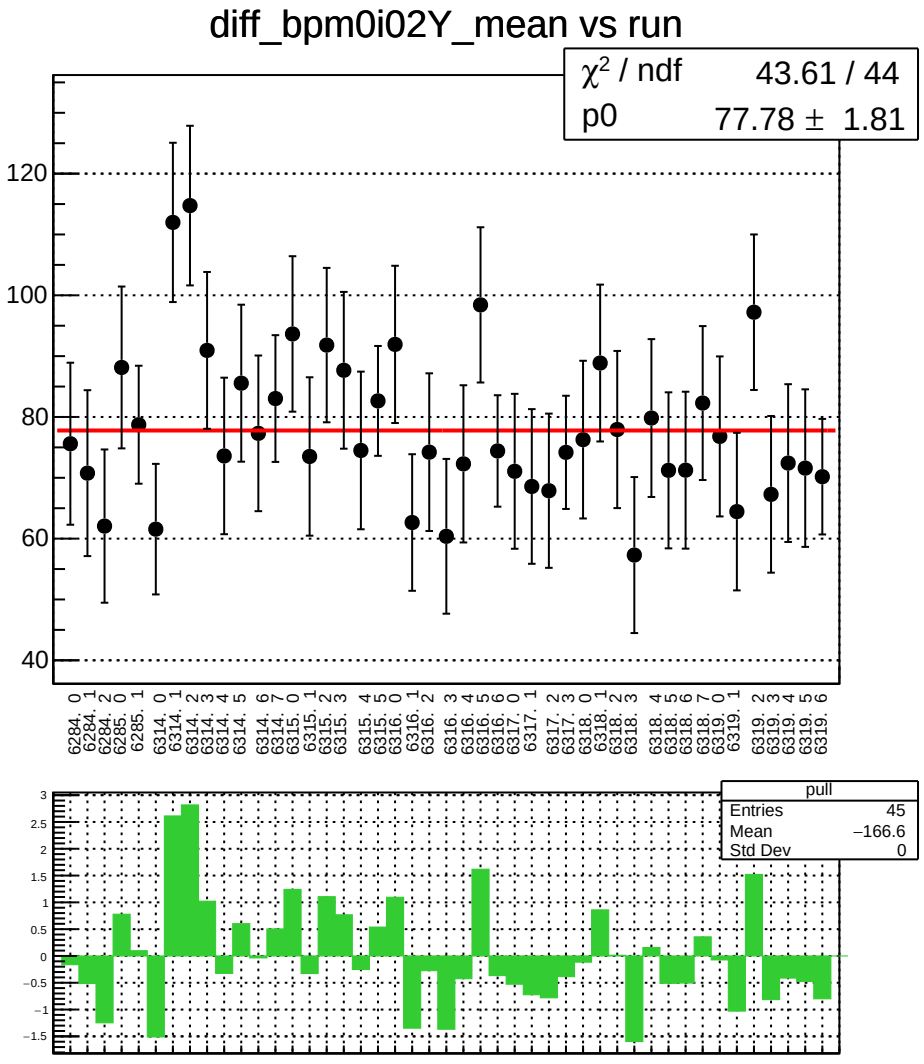
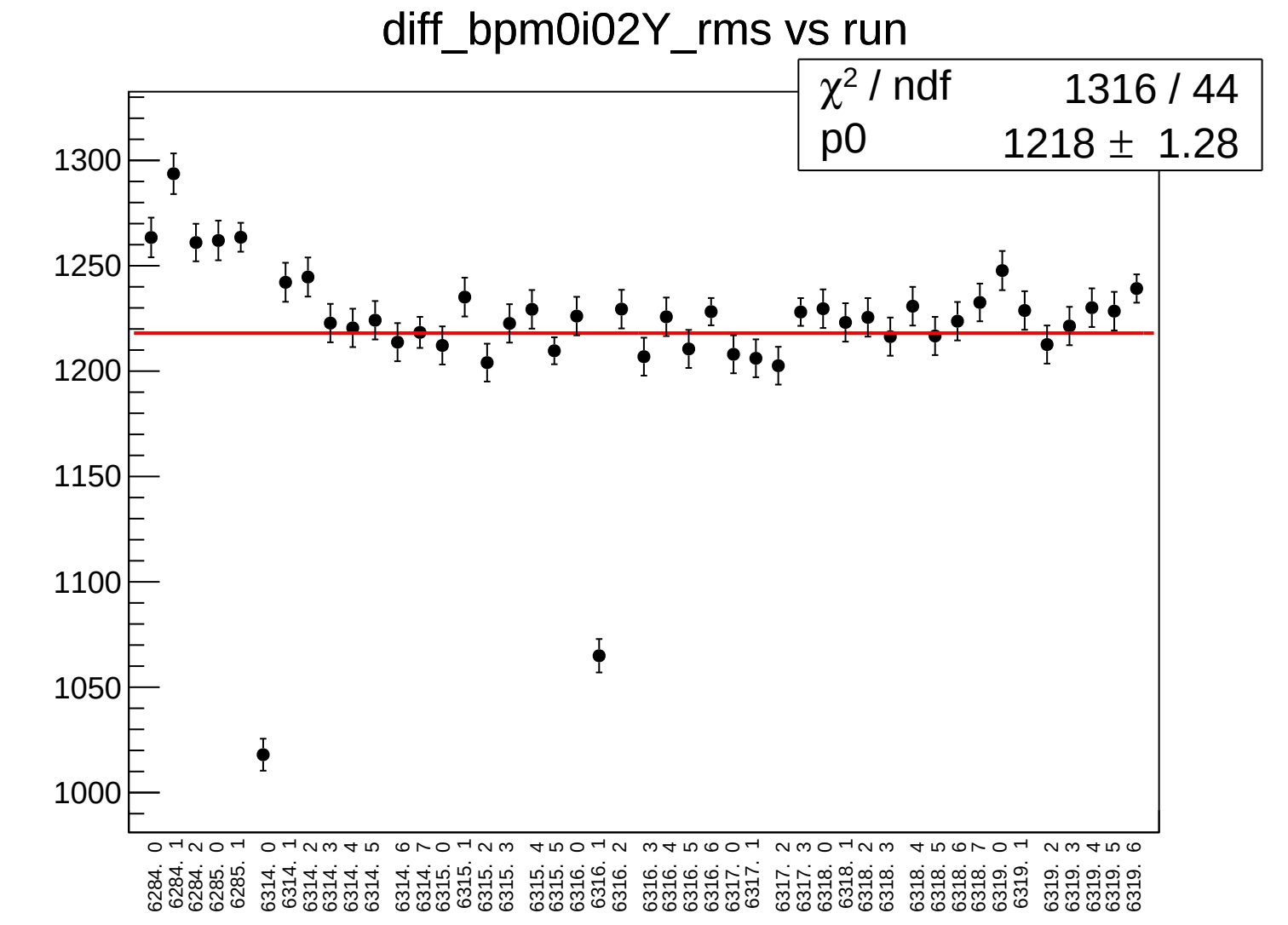
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0i02X_mean vs run
χ² / ndf 58.68 / 44
p0 −50.33 ± 1.967
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −45.58
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.03708
Std Dev 1.141
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02X_rms vs run
χ² / ndf 397.5 / 44
p0 1325 ± 1.391
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0i02Y_mean vs run
χ² / ndf 43.61 / 44
p0 77.78 ± 1.81
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −166.6
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01773
Std Dev 0.9843
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02Y_rms vs run
χ² / ndf 1316 / 44
p0 1218 ± 1.28
1300
1250
1200
1150
1100
1050
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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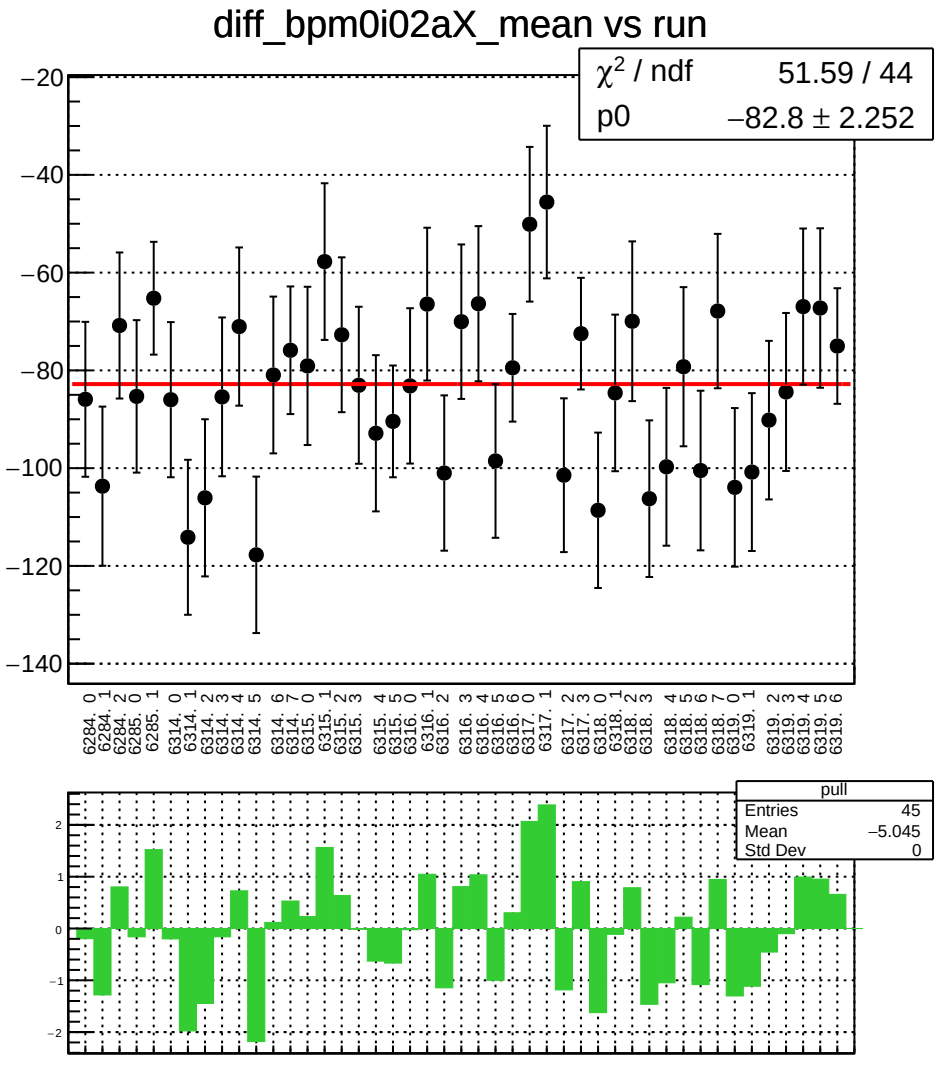
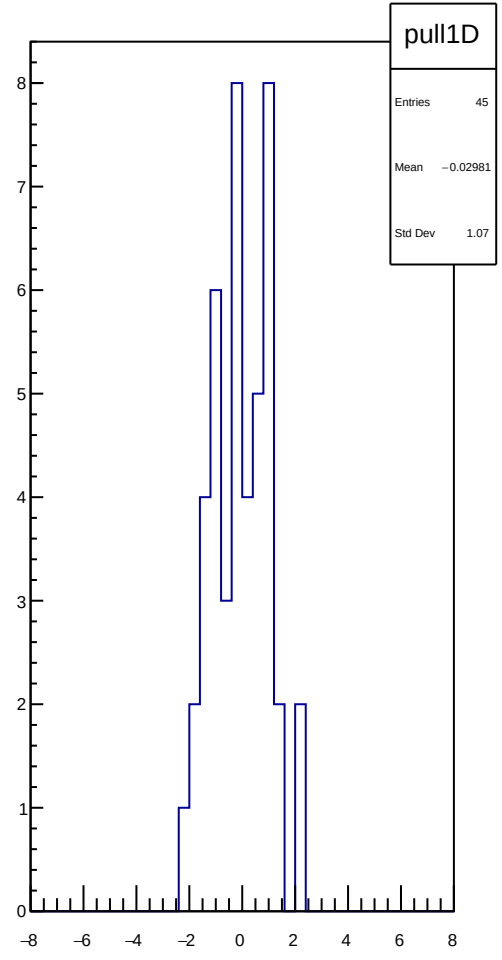
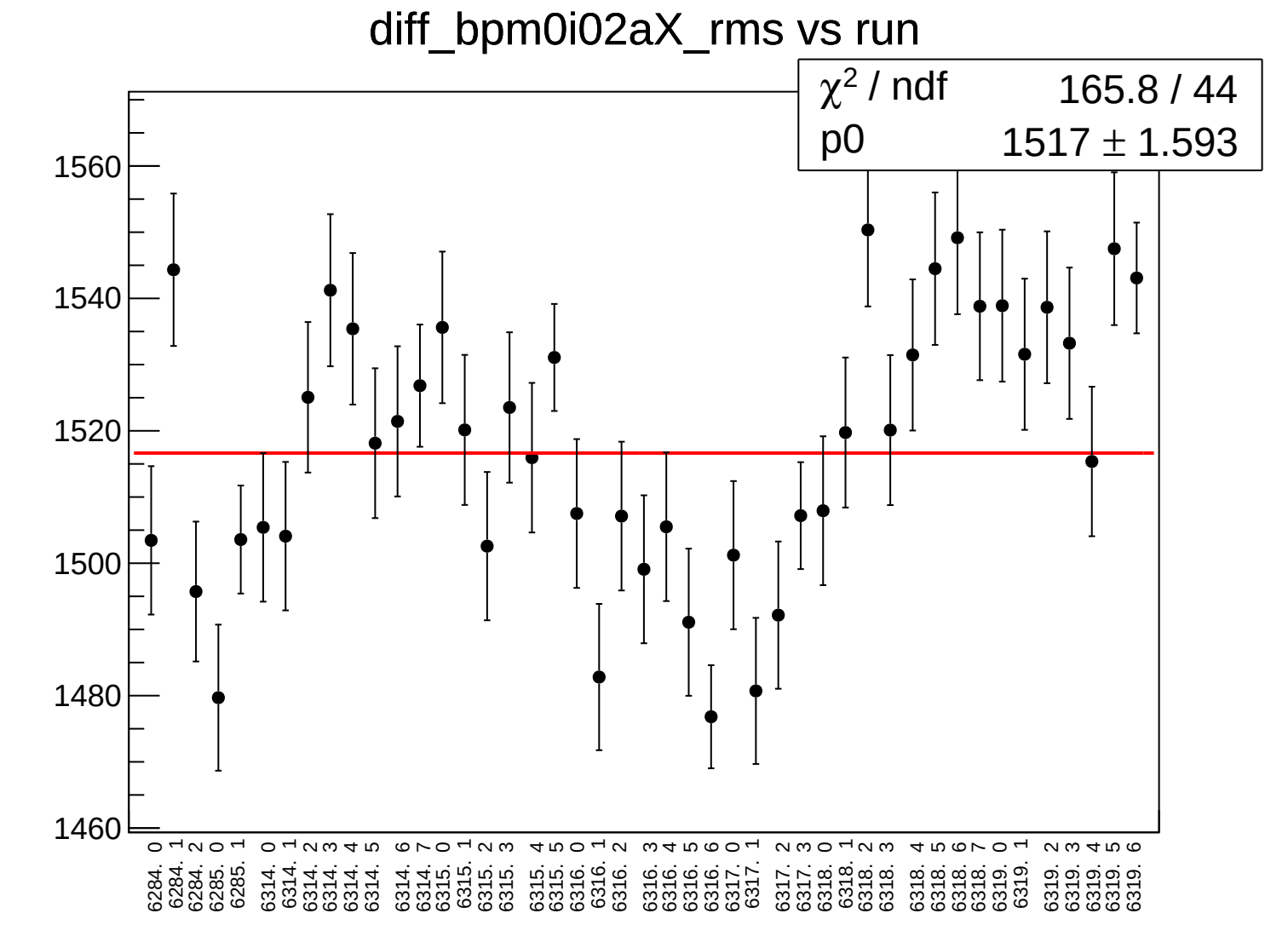
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


diff_bpm0i02aX_mean vs run
χ^2 / ndf 51.59 / 44
p0 −82.8 ± 2.252
−20
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −5.045
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02981
Std Dev 1.07
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02aX_rms vs run
χ² / ndf 165.8 / 44
p0 1517 ± 1.593
1560
1540
1520
1500
1480
1460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
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6317. 1
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6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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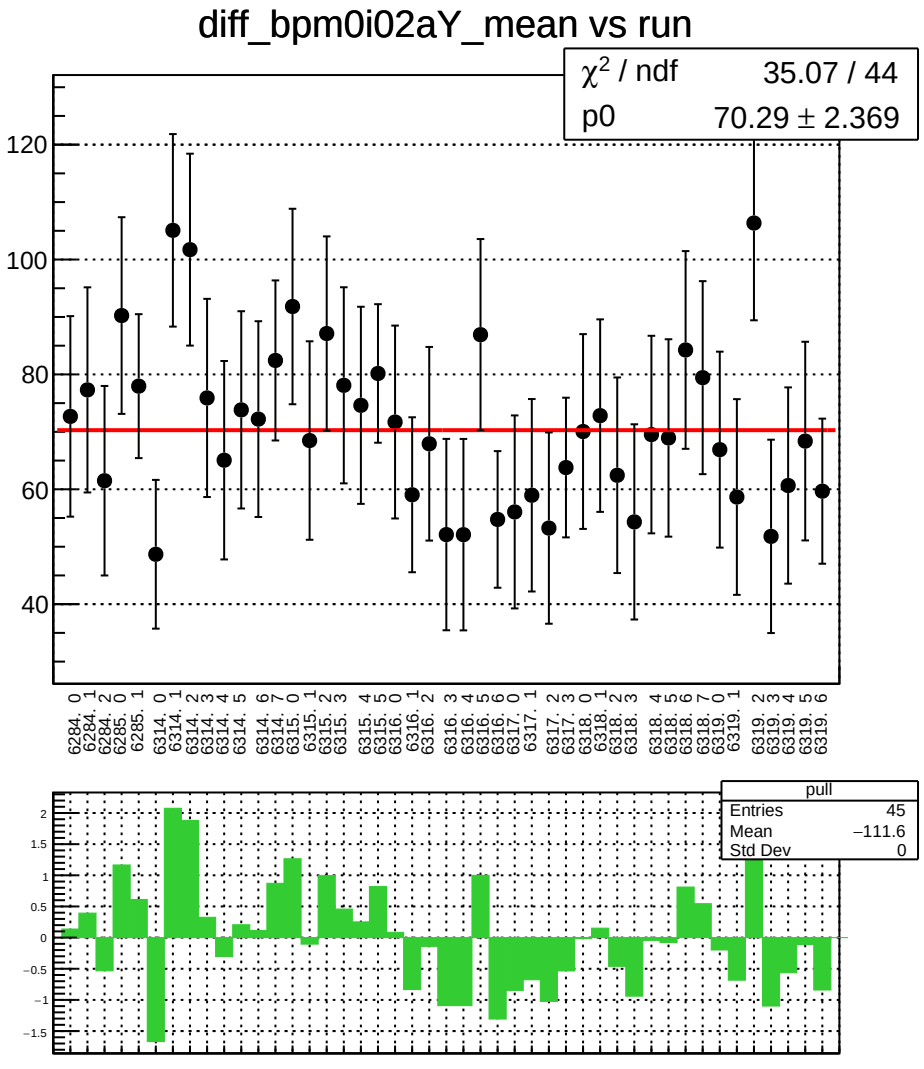
6319. 4
6319. 5
6319. 6


diff_bpm0i02aY_mean vs run
χ² / ndf 35.07 / 44
p0 70.29 ± 2.369
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 6
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6317. 1
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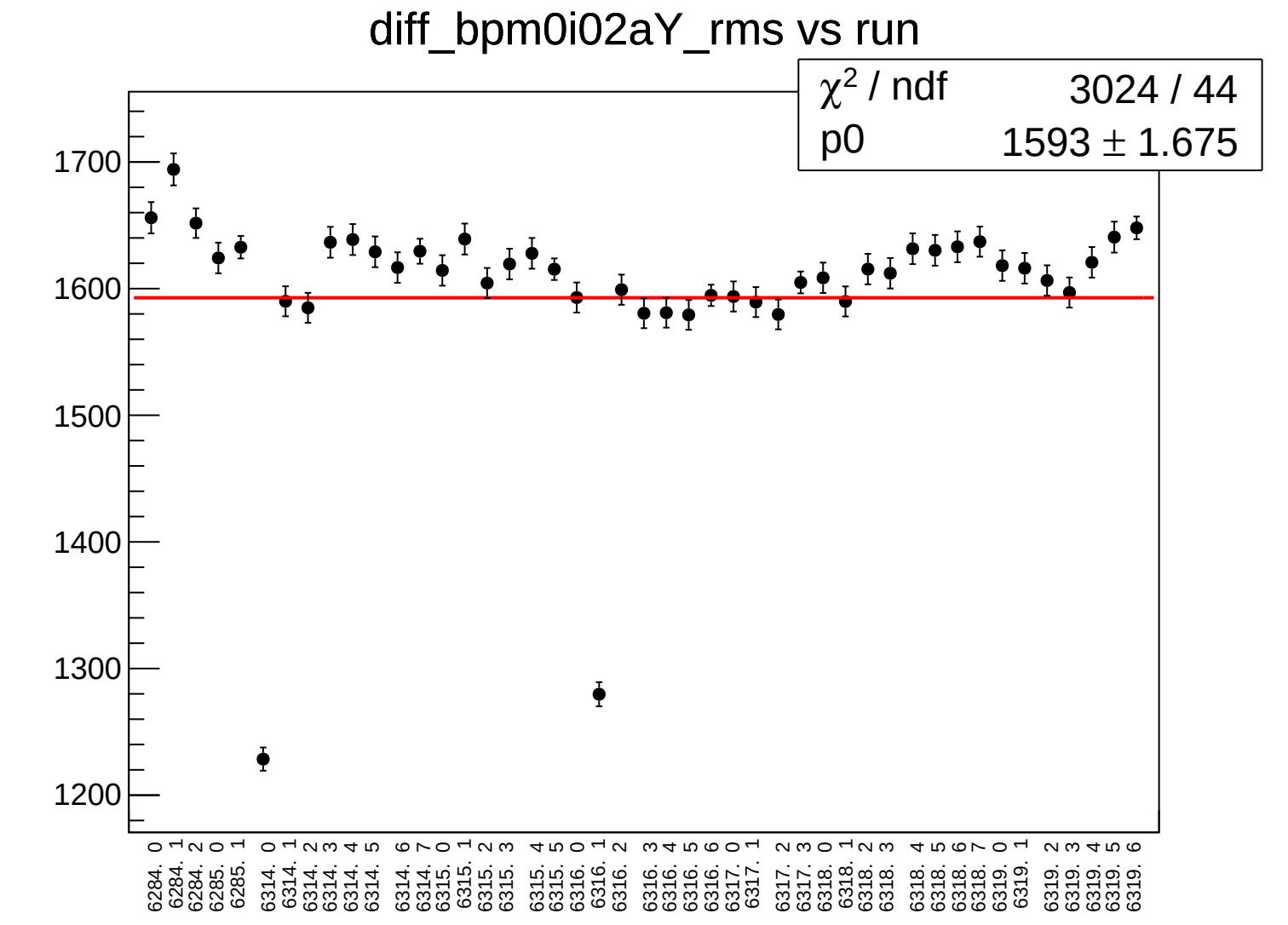
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02452
Std Dev 0.8824
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02aY_rms vs run
χ² / ndf 3024 / 44
p0 1593 ± 1.675
1700
1600
1500
1400
1300
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
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6318. 1
6318. 2
6318. 3
6318. 4
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6319. 2
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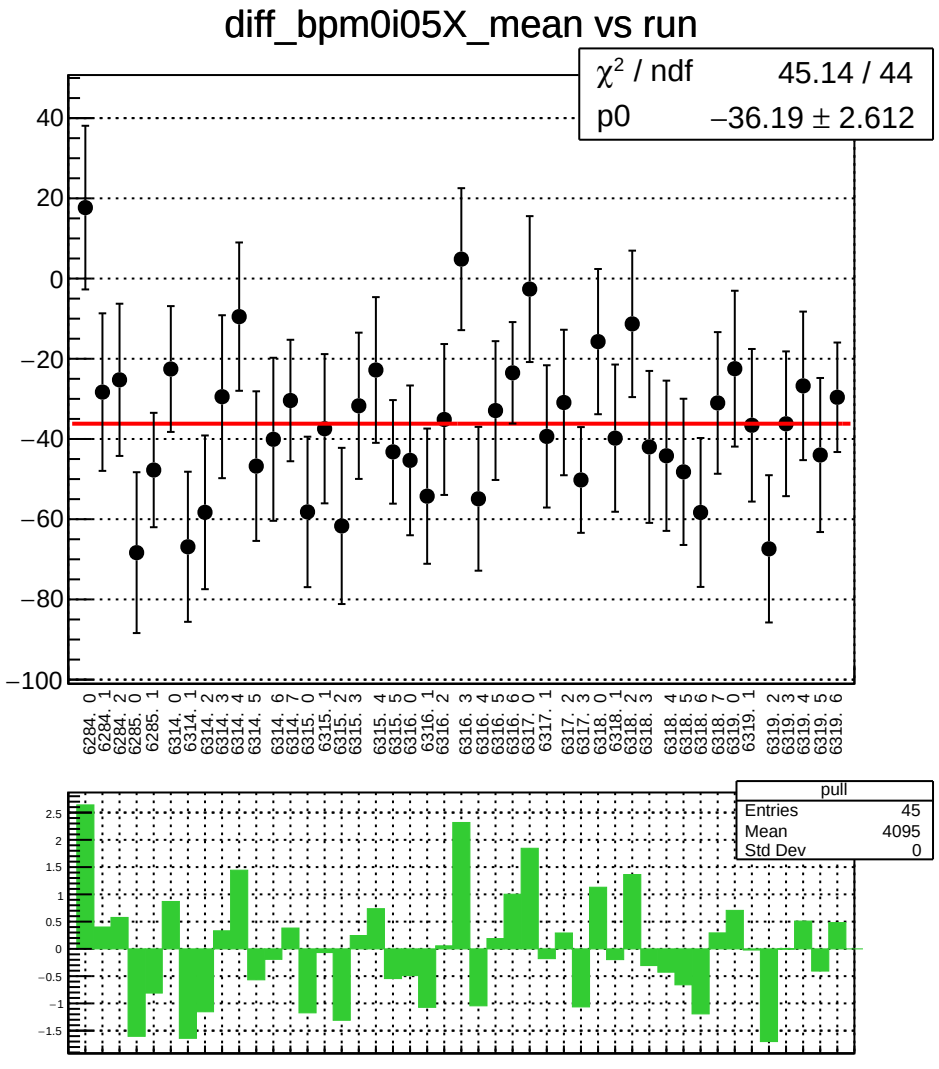
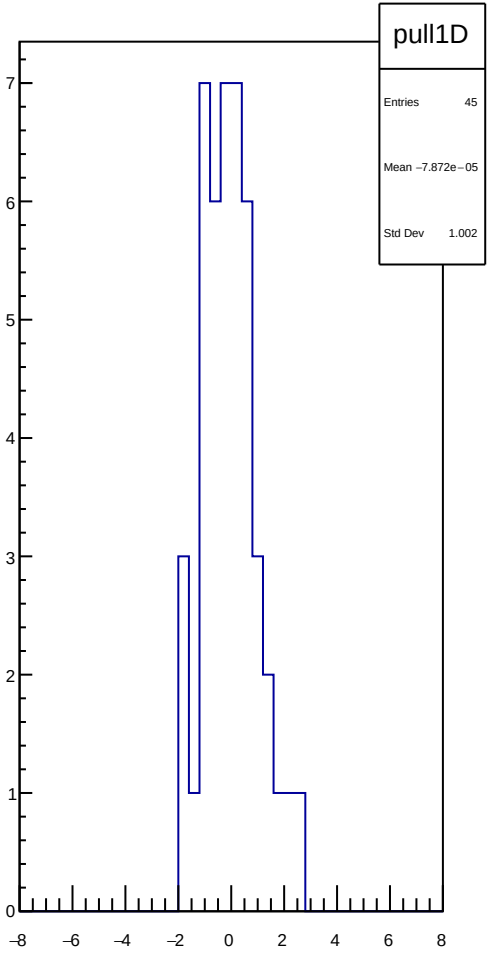
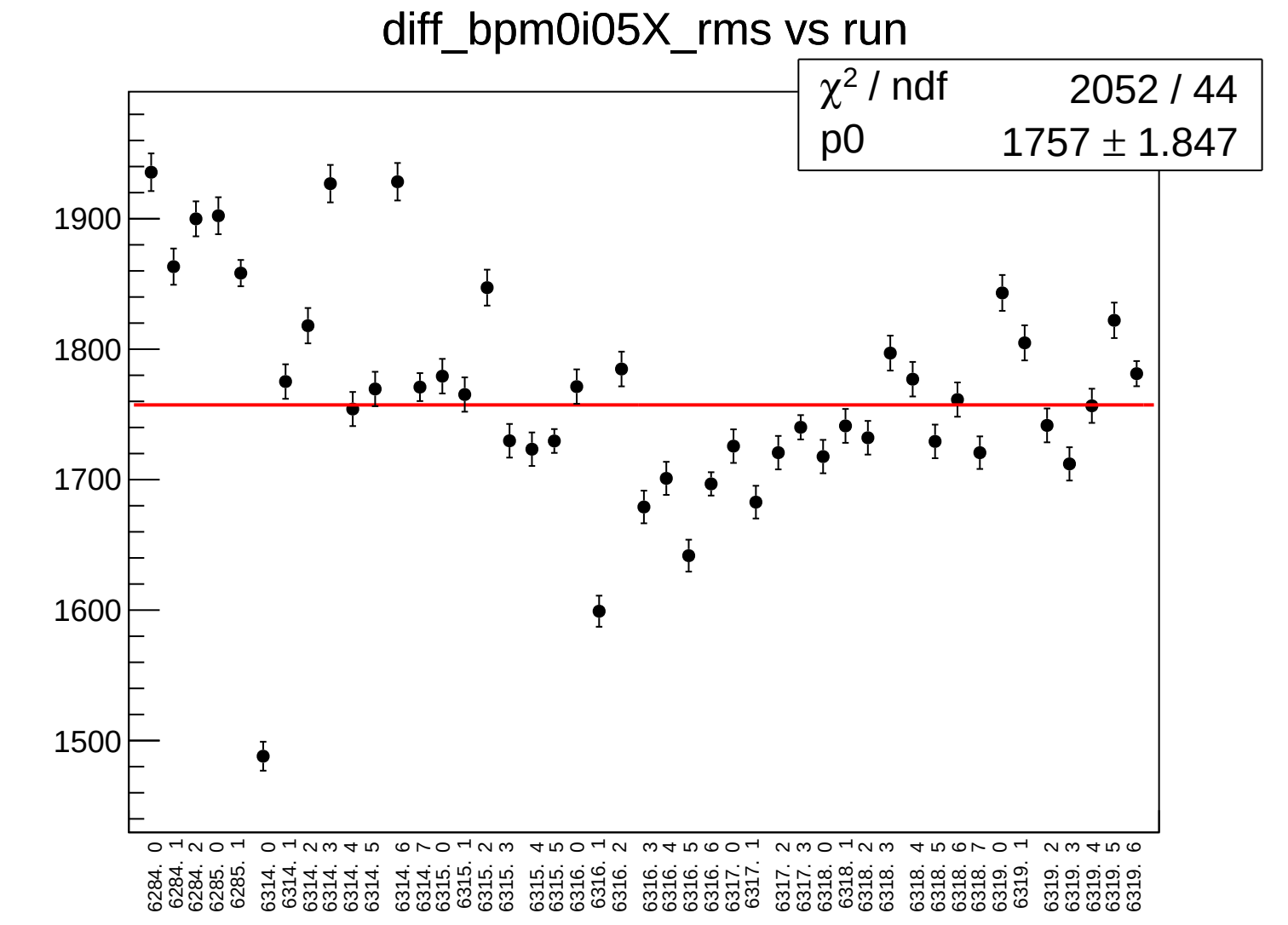
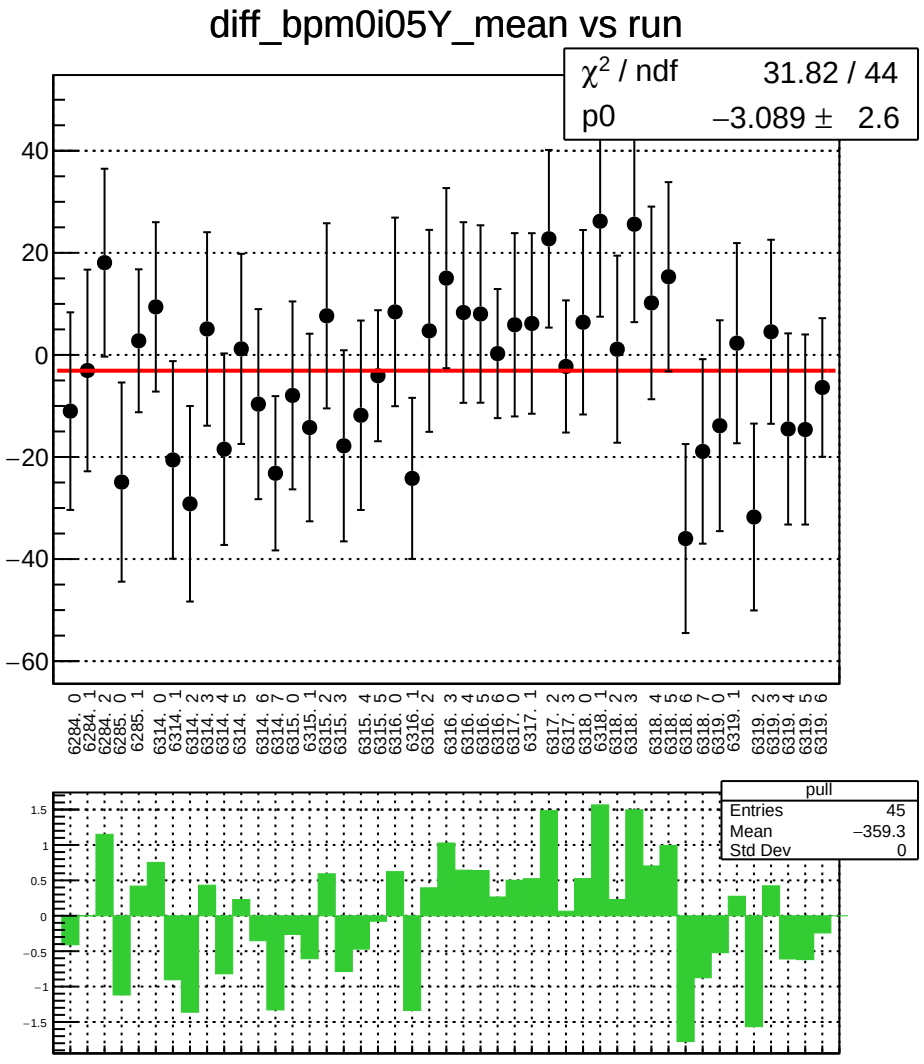
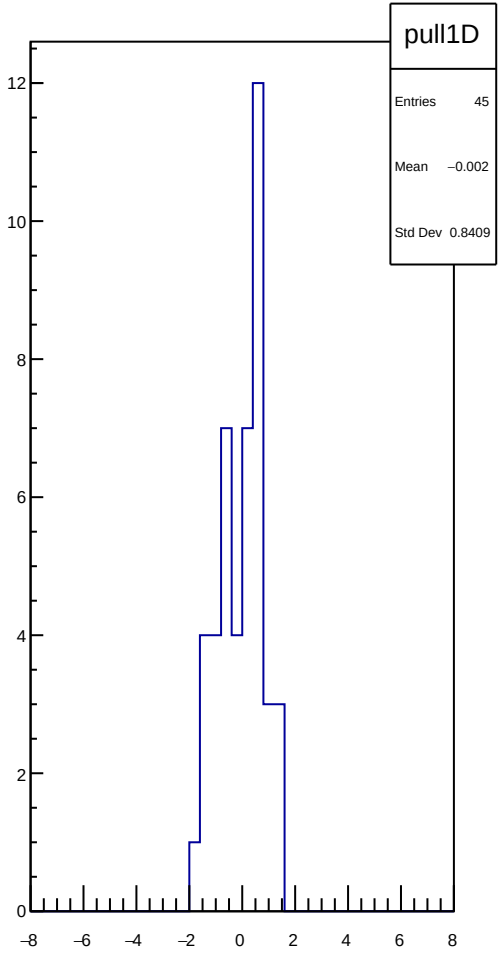
6319. 4
6319. 5
6319. 6

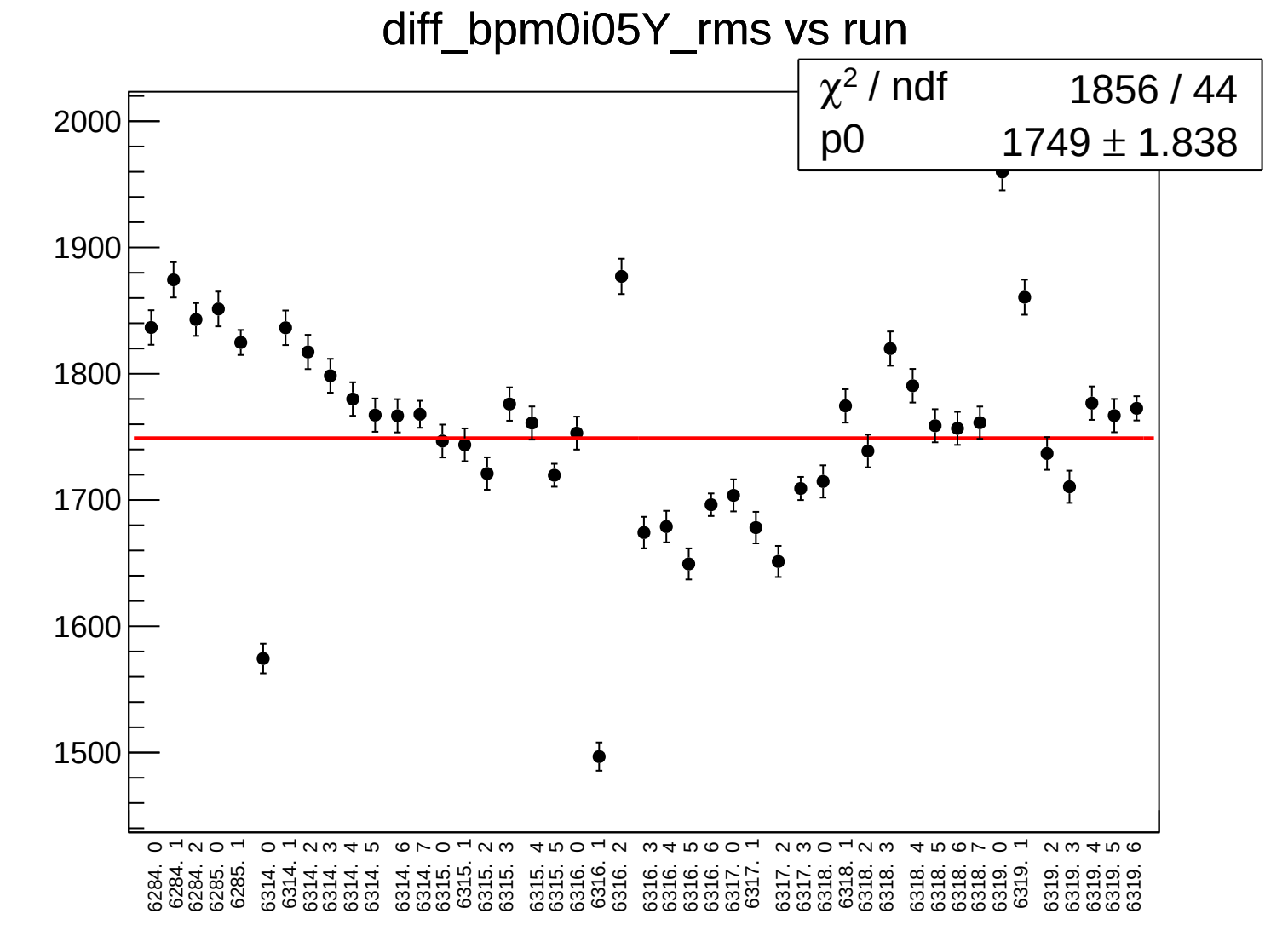

diff_bpm0i05X_mean vs run
χ² / ndf 45.14 / 44
p0 −36.19 ± 2.612
pull
Entries 45
Mean 4095
Std Dev 0

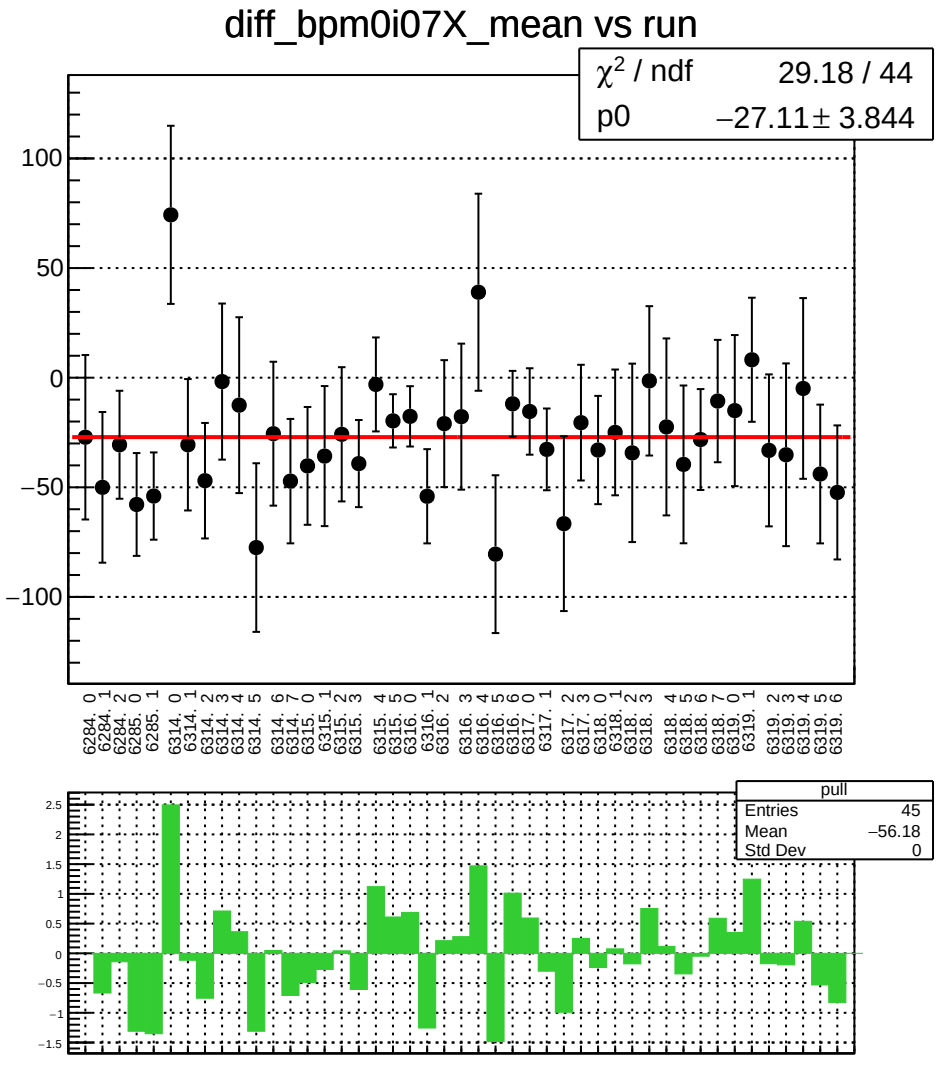

pull1D
Entries 45
Mean −7.872e−05
Std Dev 1.002

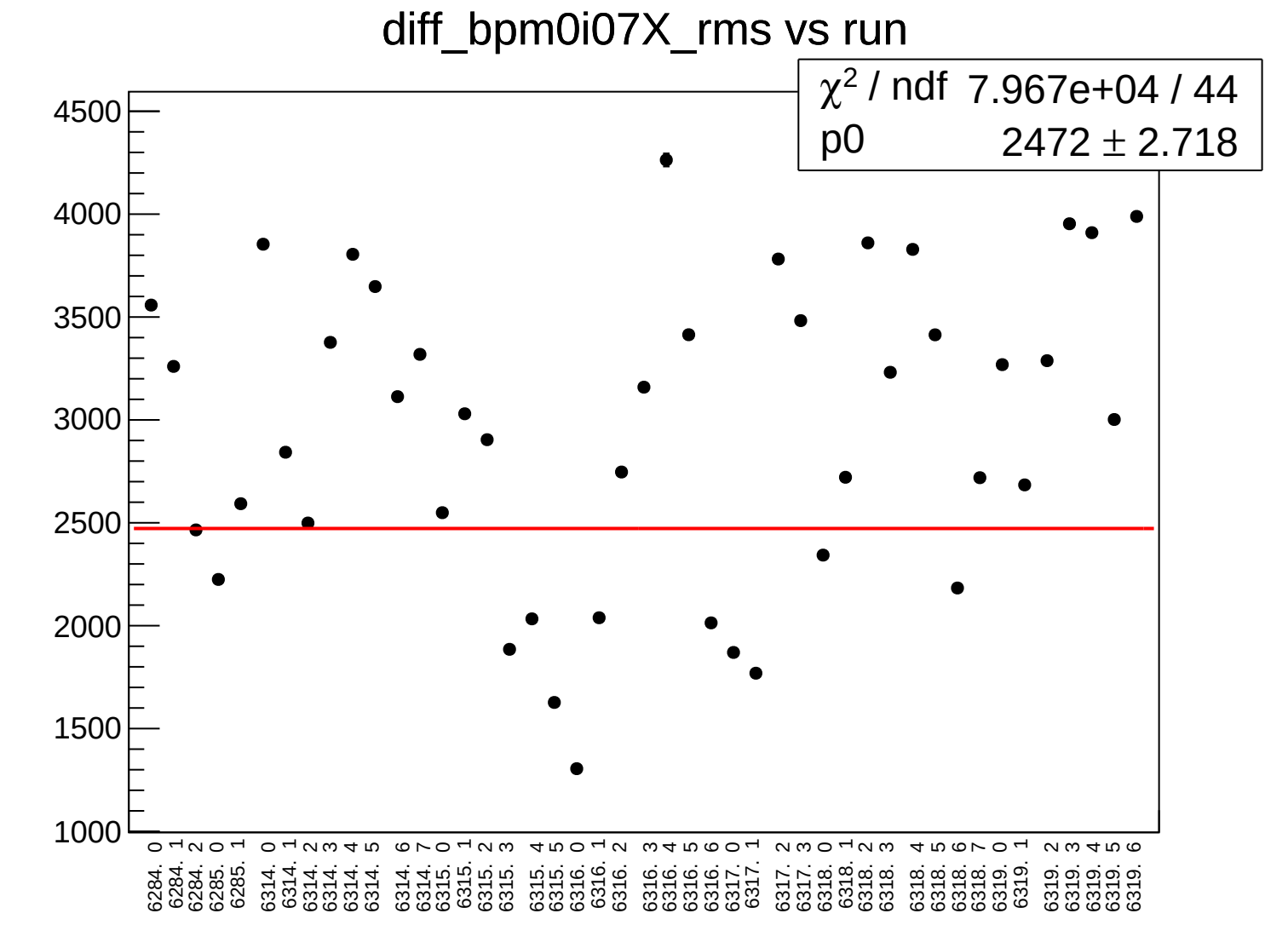

diff_bpm0i05X_rms vs run
χ² / ndf 2052 / 44
p0 1757 ± 1.847
1900
1800
1700
1600
1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

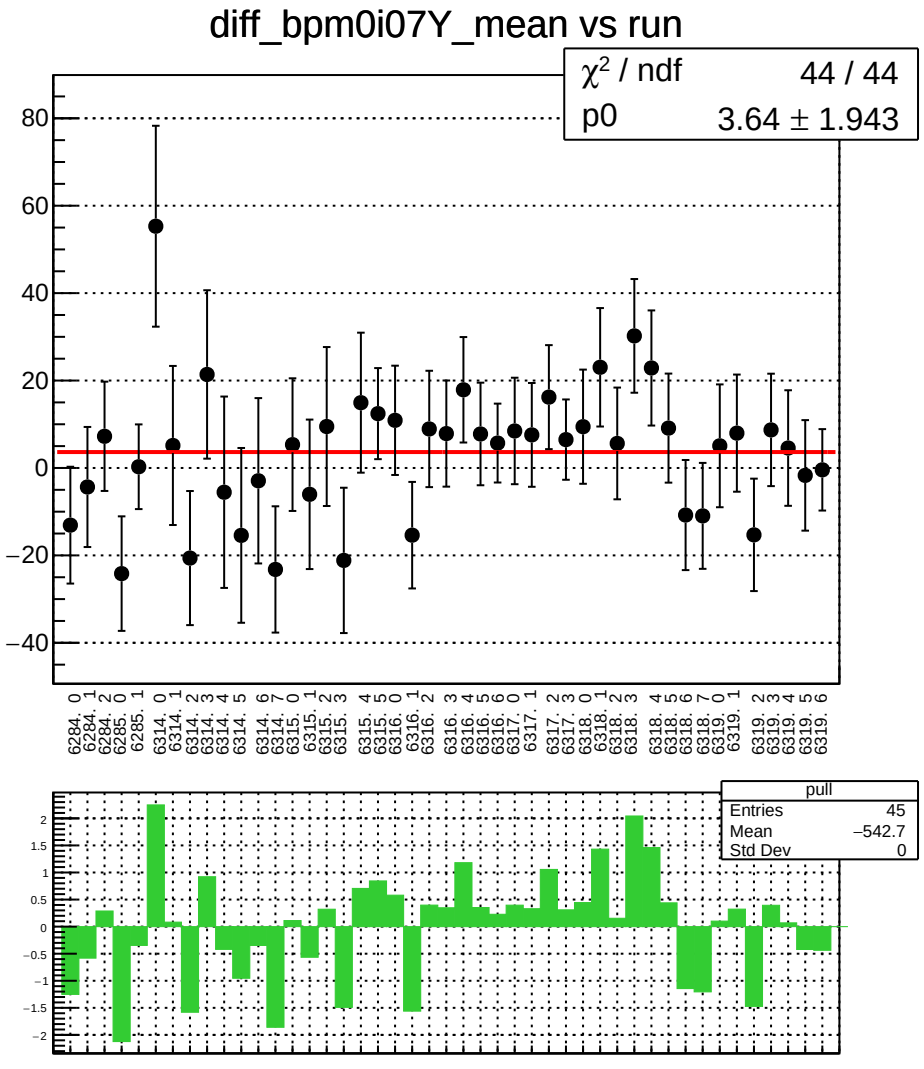

diff_bpm0i05Y_mean vs run
χ² / ndf 31.82 / 44
p0 −3.089 ± 2.6
pull
Entries 45
Mean −359.3
Std Dev 0

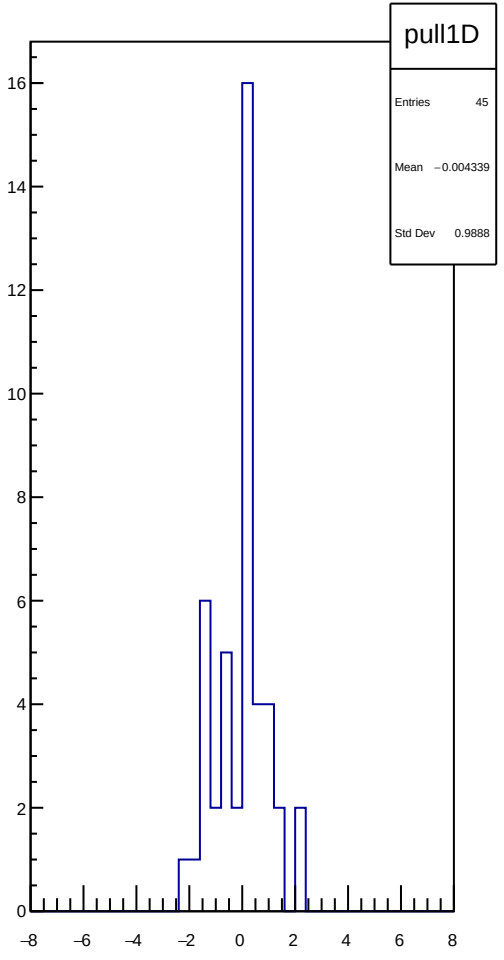

pull1D
Entries 45
Mean −0.002
Std Dev 0.8409

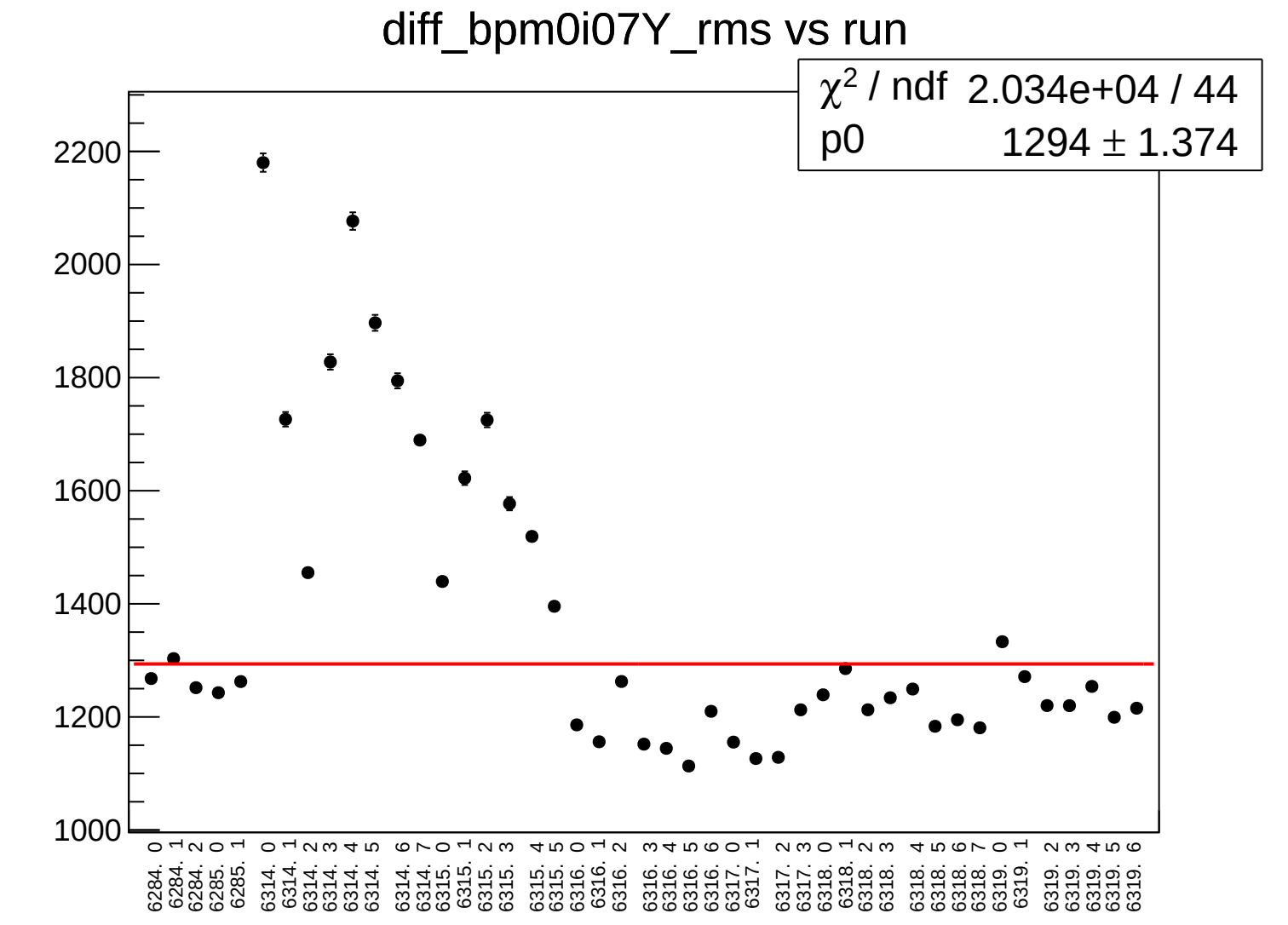

diff_bpm0i05Y_rms vs run
χ² / ndf 1856 / 44
p0 1749 ± 1.838
2000
1900
1800
1700
1600
1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

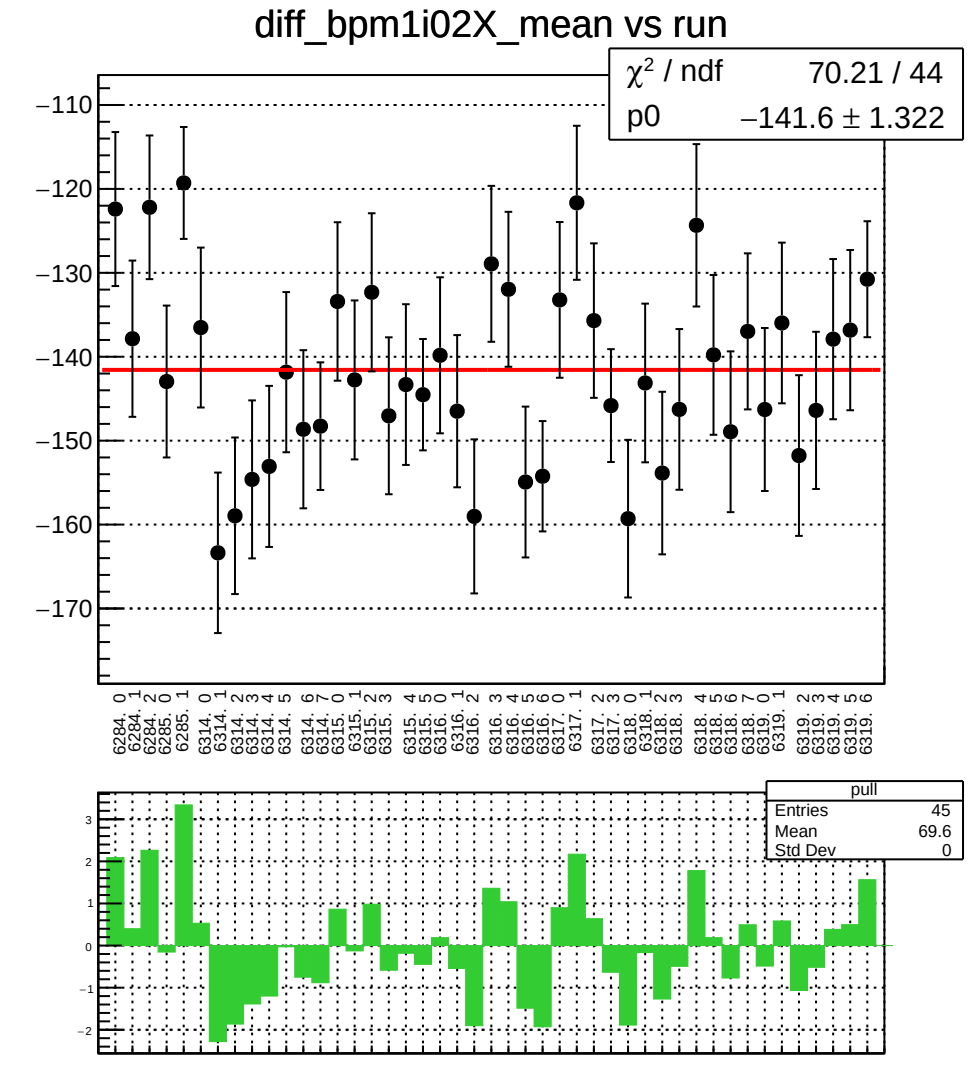

diff_bpm0i07X_mean vs run
χ² / ndf 29.18 / 44
p0 −27.11± 3.844
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −56.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01597
Std Dev 0.805
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

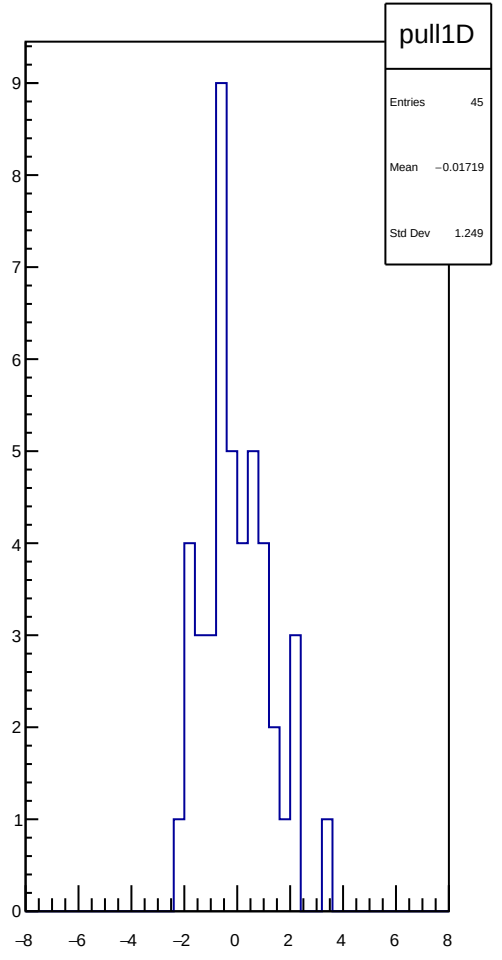

diff_bpm0i07X_rms vs run
χ² / ndf 7.967e+04 / 44
p0 2472 ± 2.718
4500
4000
3500
3000
2500
2000
1500
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

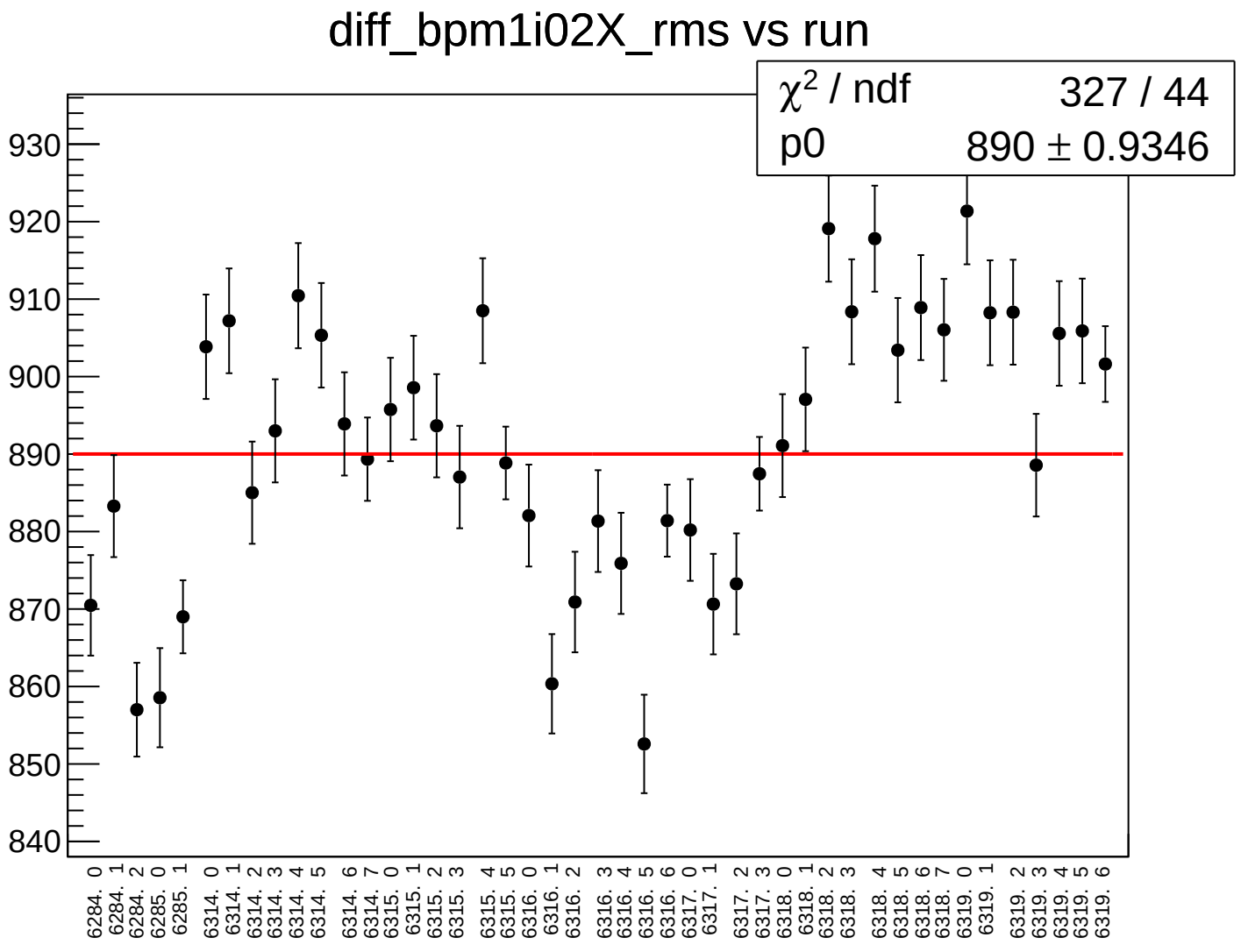

diff_bpm0i07Y_mean vs run
χ² / ndf 44 / 44
p0 3.64 ± 1.943
pull
Entries 45
Mean −542.7
Std Dev 0

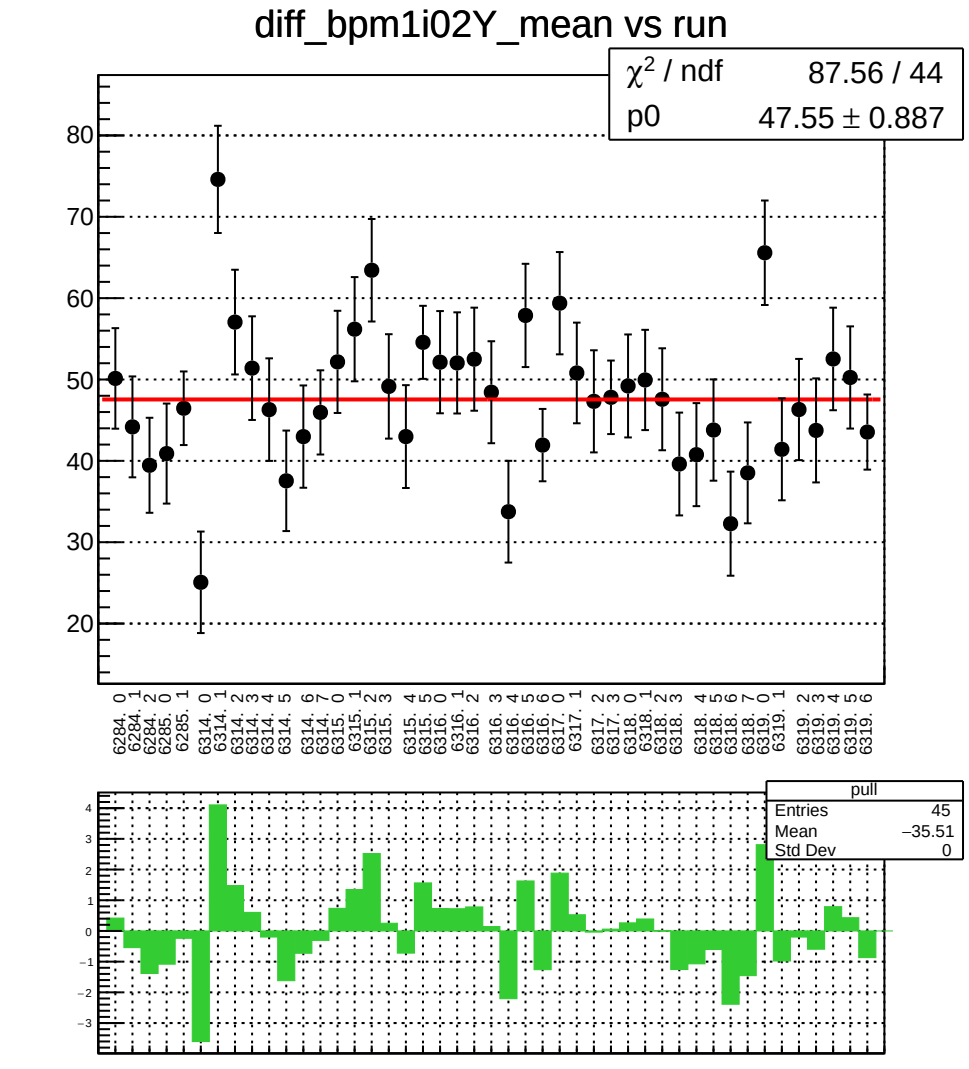

pull1D
Entries 45
Mean −0.004339
Std Dev 0.9888

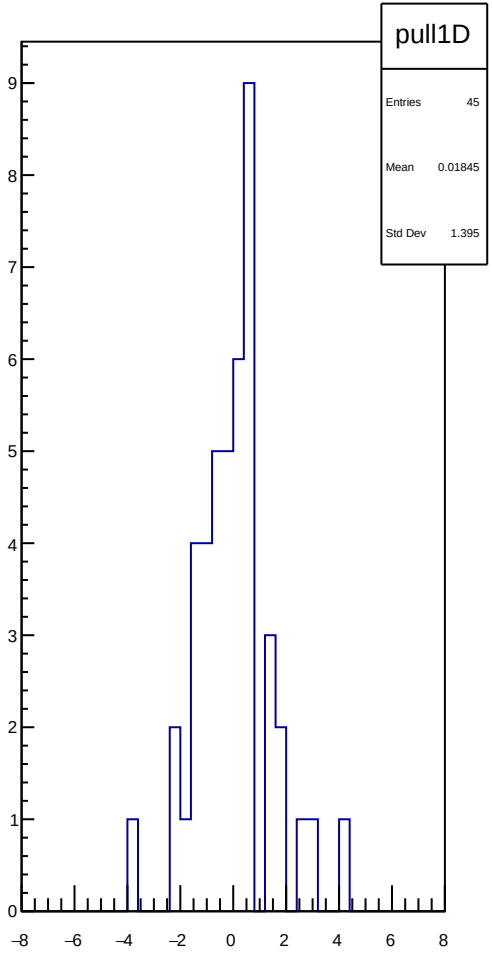

diff_bpm0i07Y_rms vs run
χ² / ndf 2.034e+04 / 44
p0 1294 ± 1.374
2200
2000
1800
1600
1400
1200
1000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

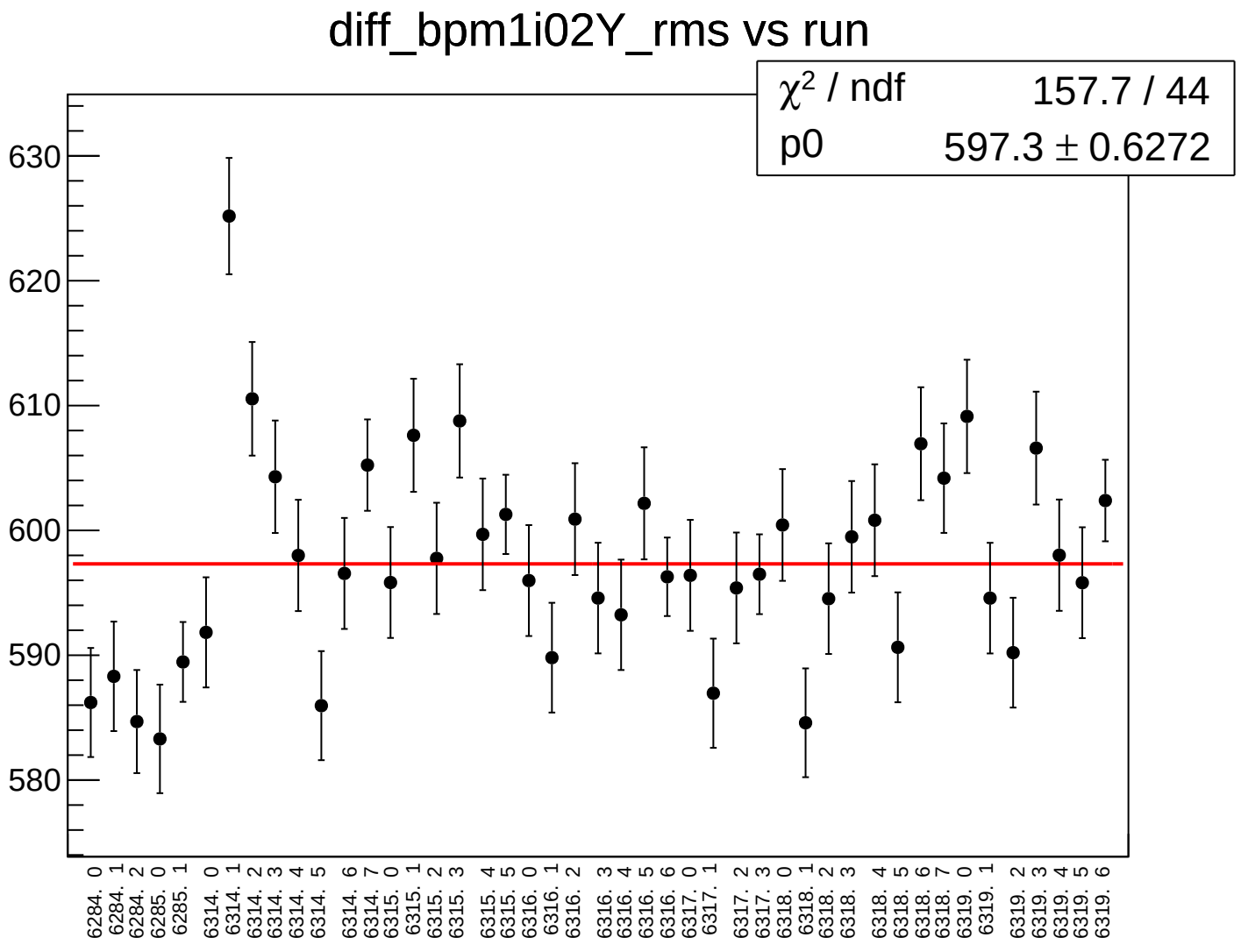

diff_bpm1i02X_mean vs run
χ^2 / ndf 70.21 / 44
p0 −141.6 ± 1.322
−110
−120
−130
−140
−150
−160
−170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 69.6
Std Dev 0
3
2
1
0
−1
−2

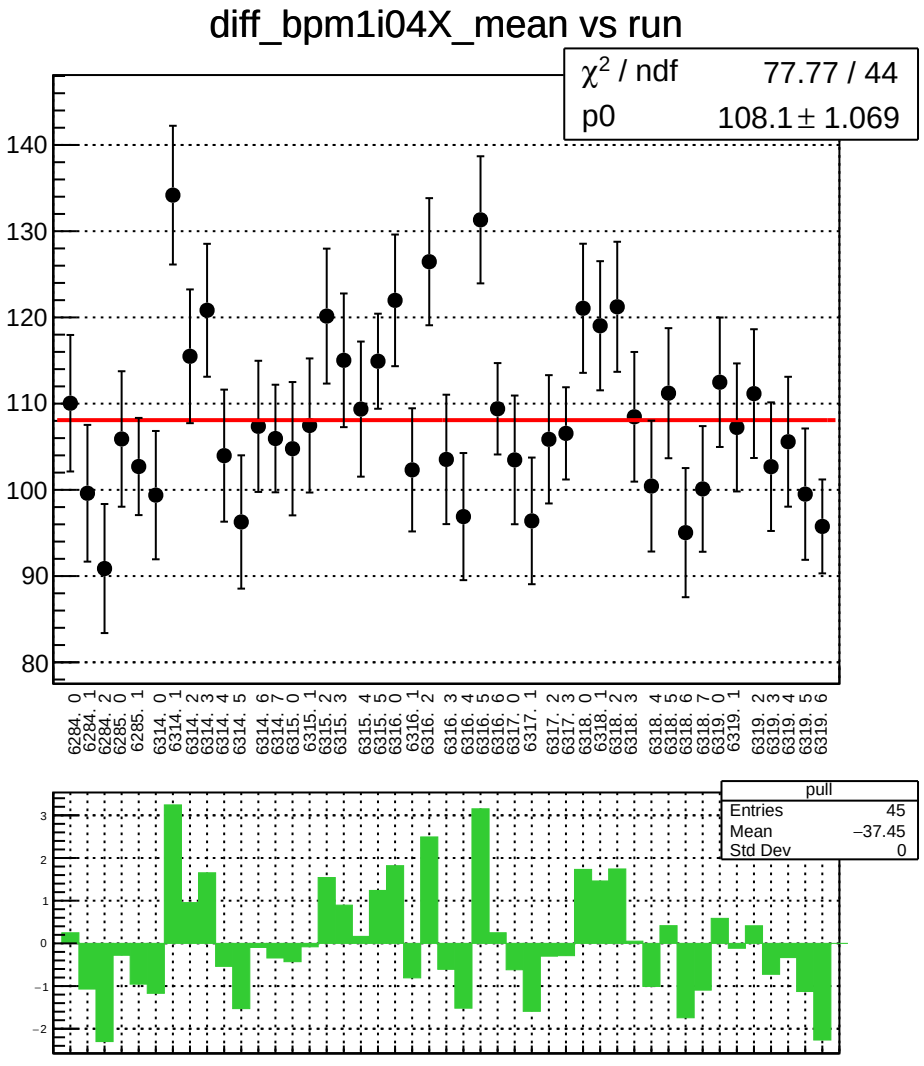

pull1D
Entries 45
Mean −0.01719
Std Dev 1.249
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

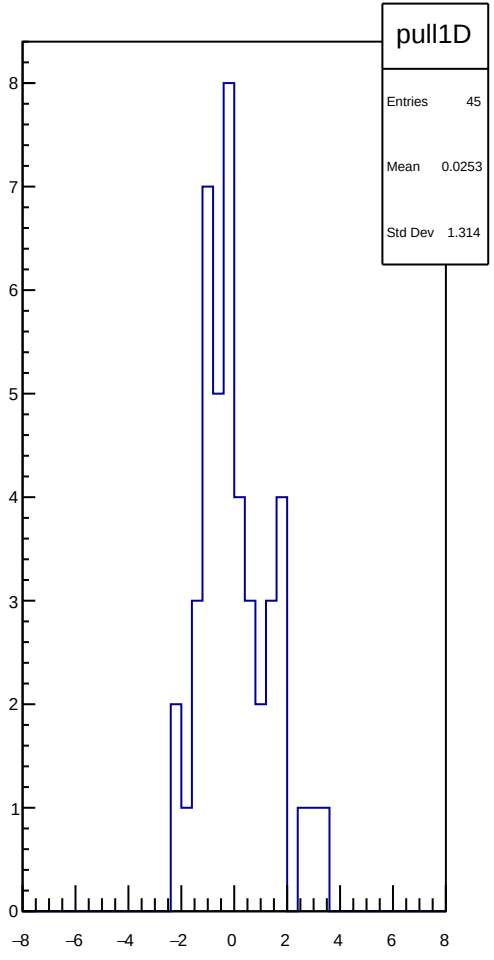

diff_bpm1i02X_rms vs run
χ² / ndf 327 / 44
p0 890 ± 0.9346
930
920
910
900
890
880
870
860
850
840
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

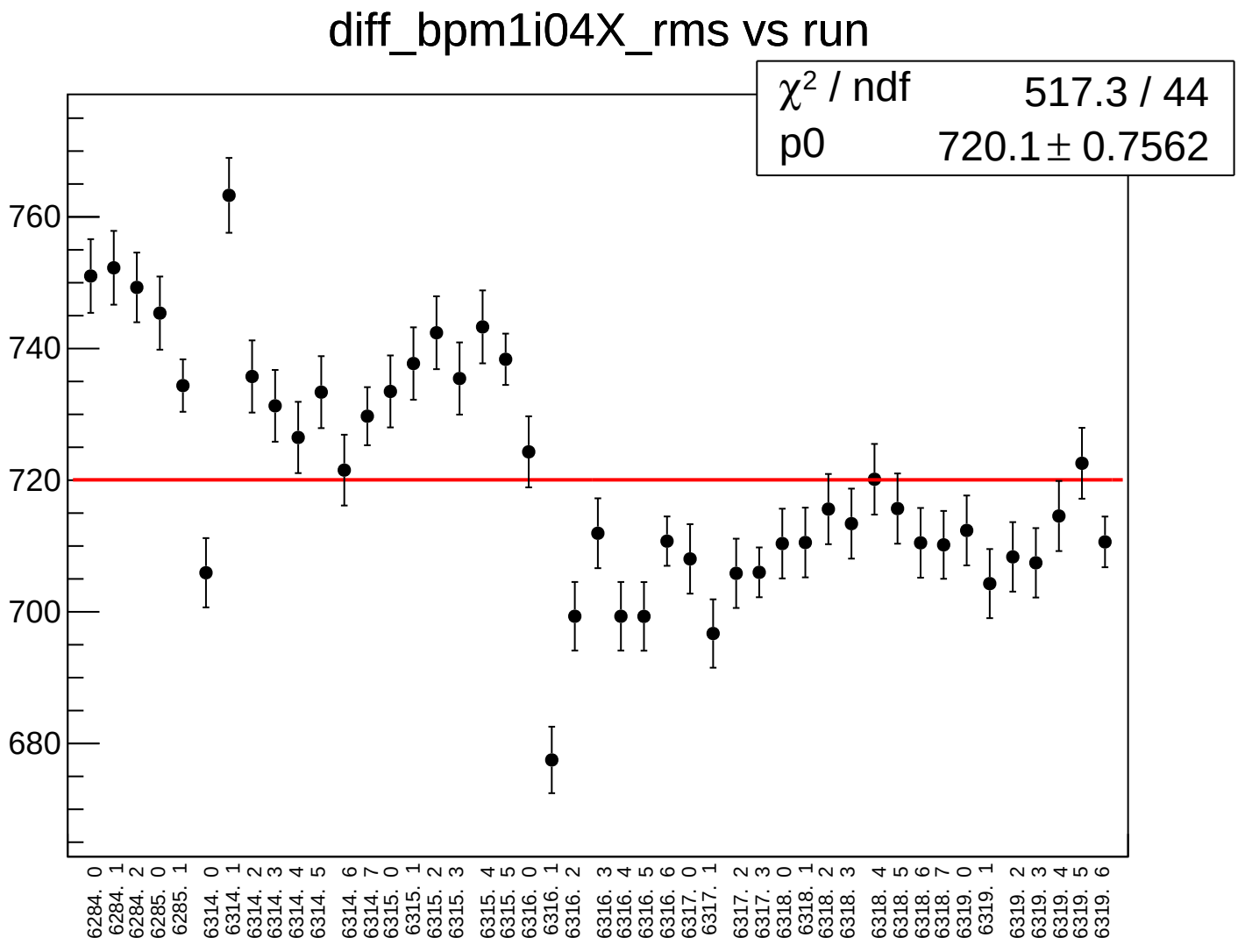

diff_bpm1i02Y_mean vs run
χ² / ndf 87.56 / 44
p0 47.55 ± 0.887
pull
Entries 45
Mean −35.51
Std Dev 0

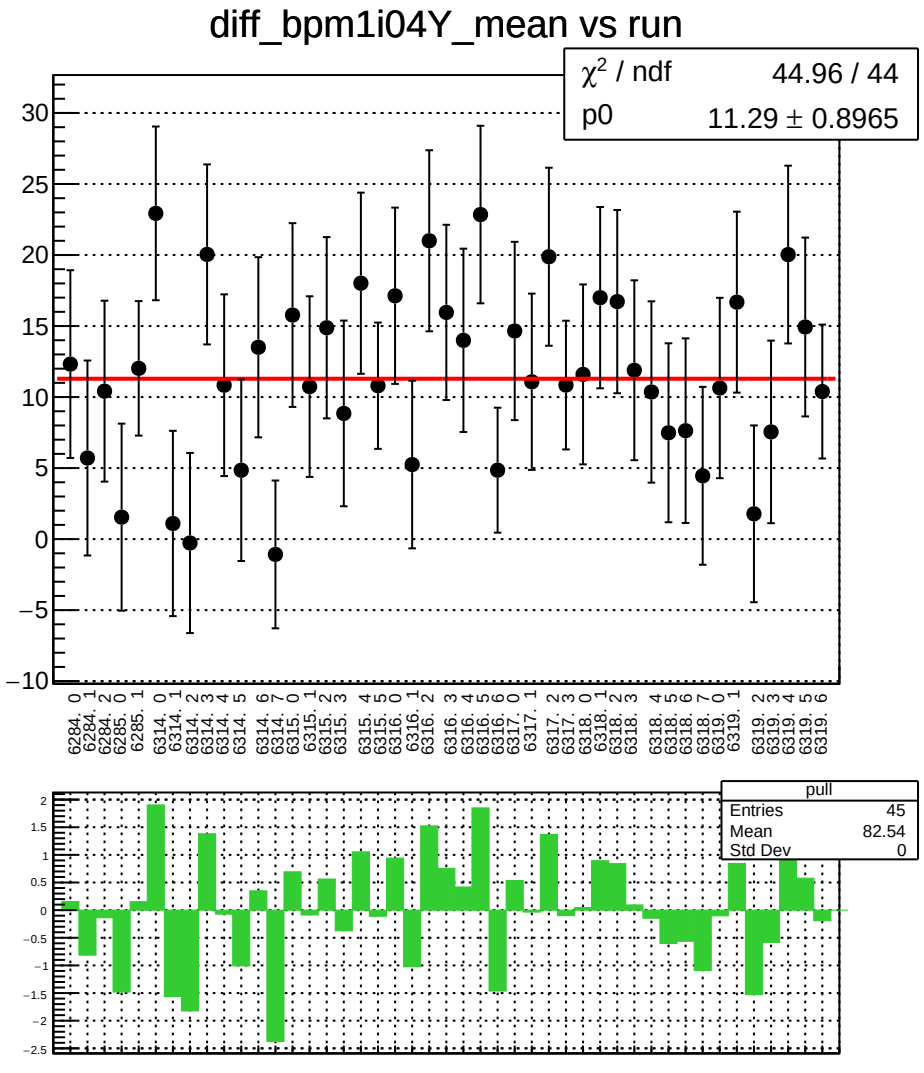

pull1D
Entries 45
Mean 0.01845
Std Dev 1.395

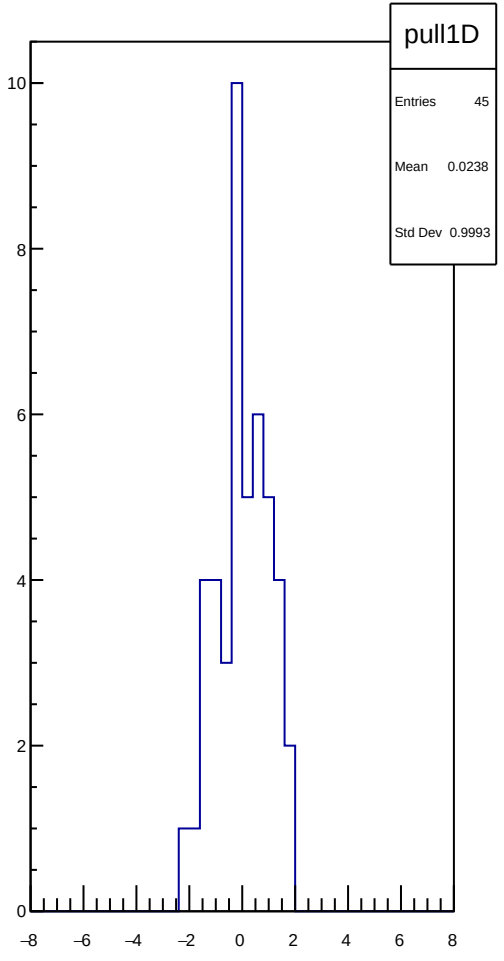

diff_bpm1i02Y_rms vs run
χ² / ndf 157.7 / 44
p0 597.3 ± 0.6272
630
620
610
600
590
580
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

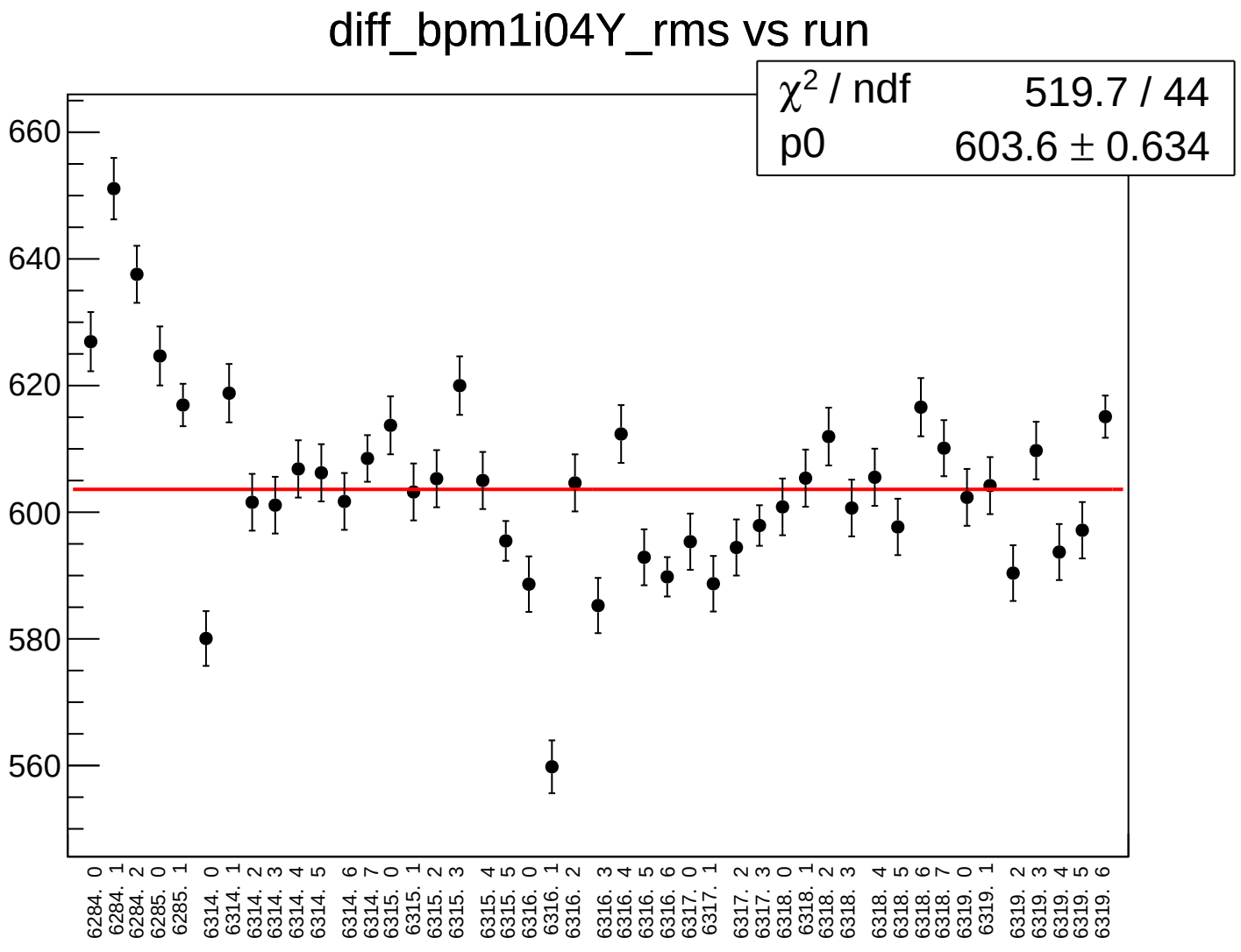

diff_bpm1i04X_mean vs run
χ² / ndf 77.77 / 44
p0 108.1 ± 1.069
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −37.45
Std Dev 0
3
2
1
0
−1
−2

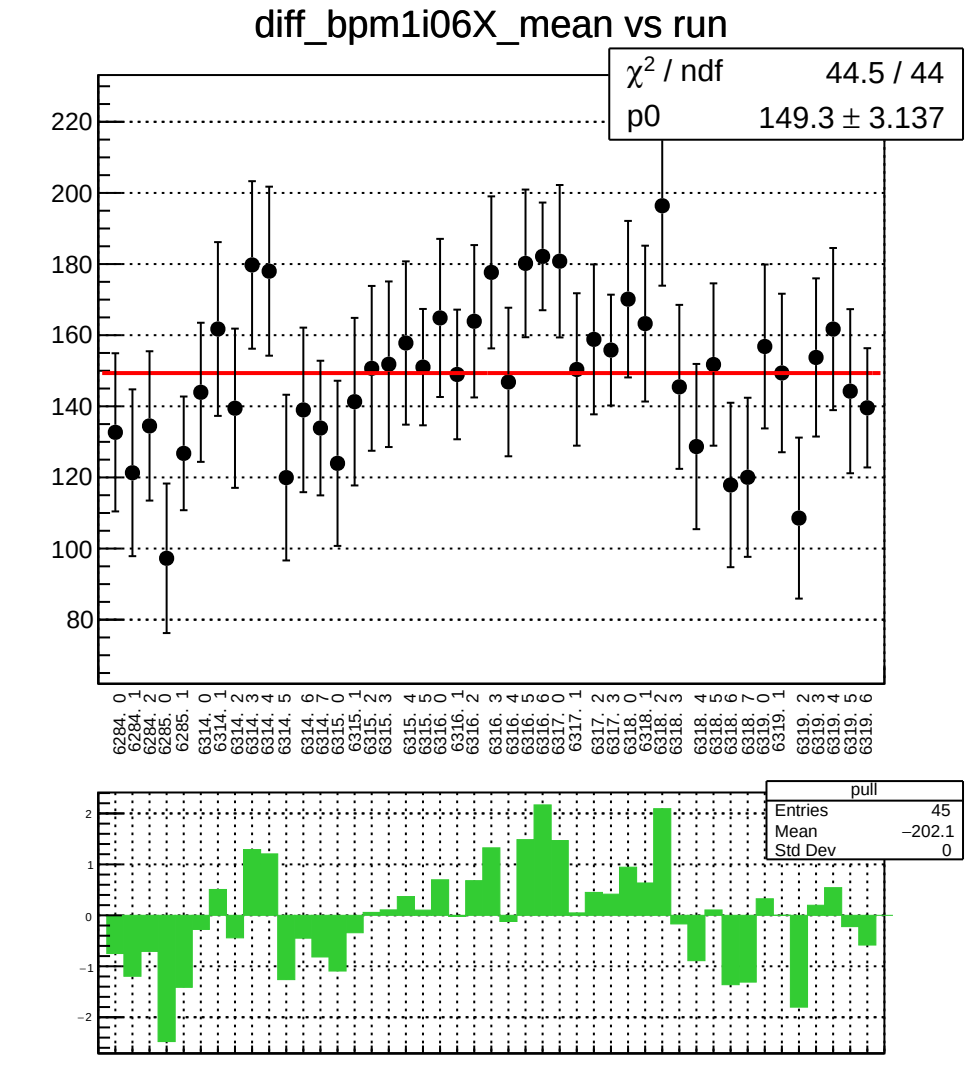

pull1D
Entries 45
Mean 0.0253
Std Dev 1.314
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

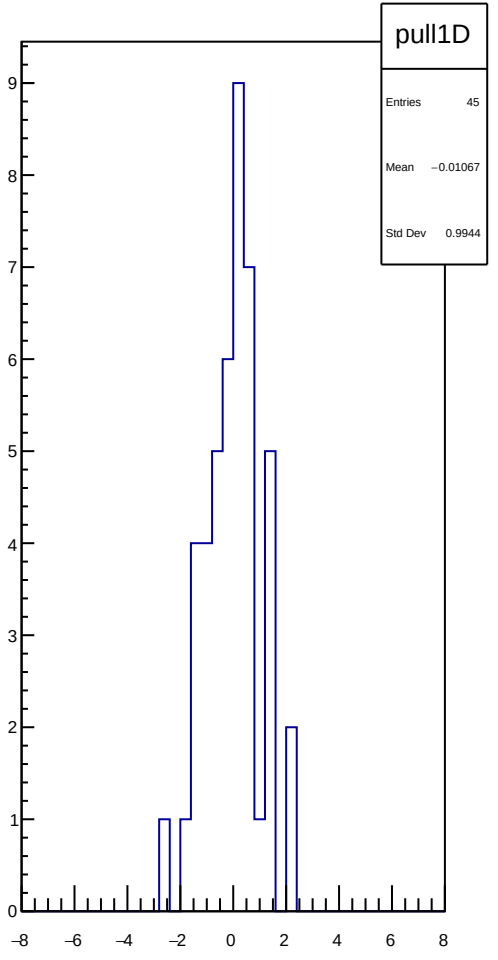

diff_bpm1i04X_rms vs run
χ² / ndf 517.3 / 44
p0 720.1 ± 0.7562
760
740
720
700
680
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

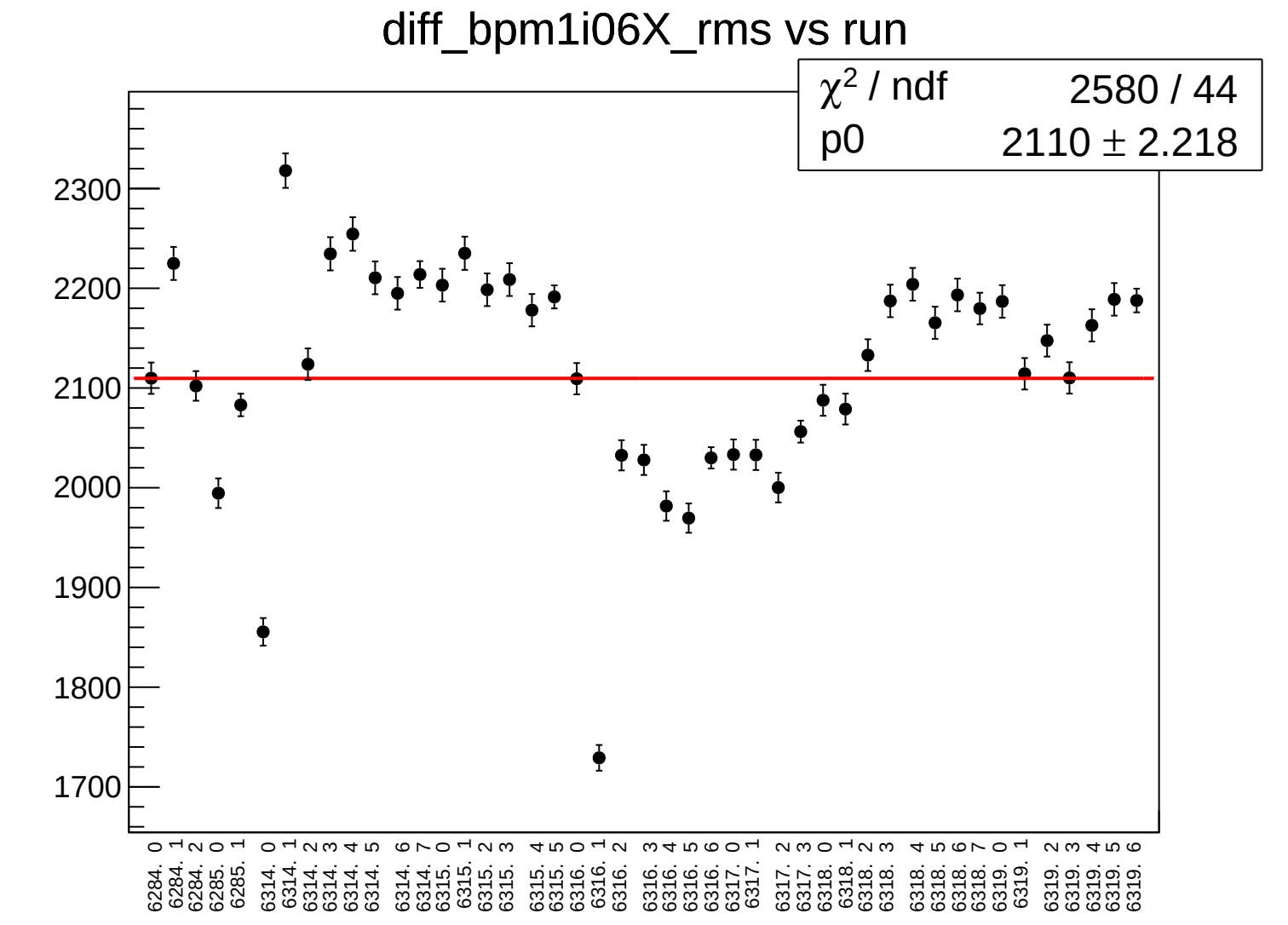

diff_bpm1i04Y_mean vs run
χ² / ndf 44.96 / 44
p0 11.29 ± 0.8965
pull
Entries 45
Mean 82.54
Std Dev 0

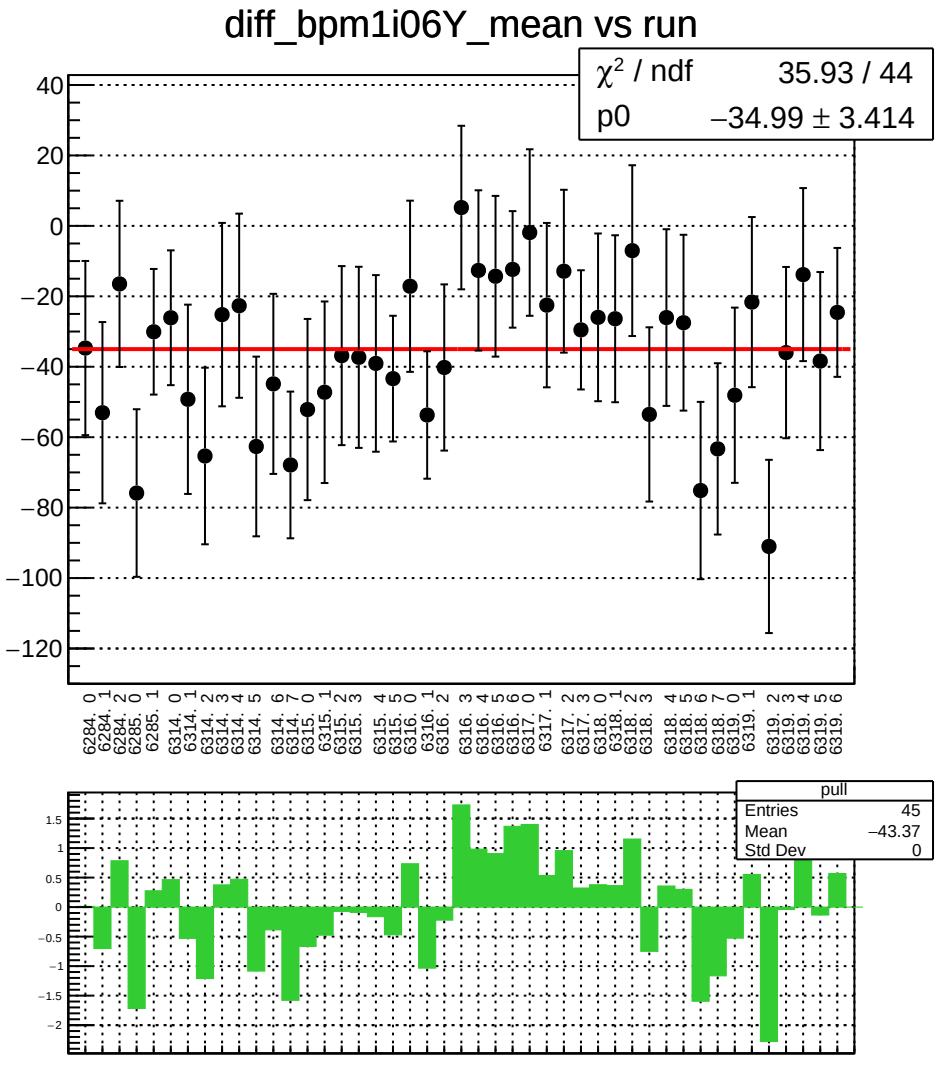

pull1D
Entries 45
Mean 0.0238
Std Dev 0.9993

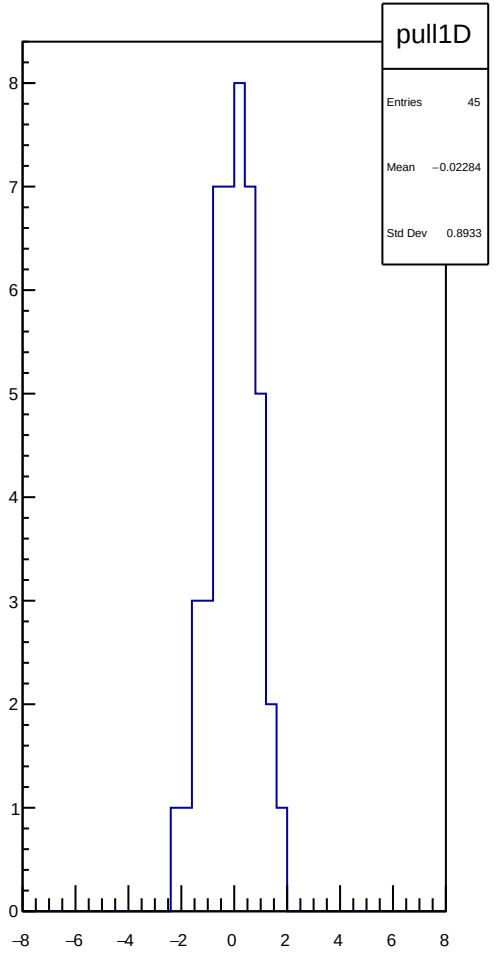

diff_bpm1i04Y_rms vs run
χ² / ndf 519.7 / 44
p0 603.6 ± 0.634
660
640
620
600
580
560
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

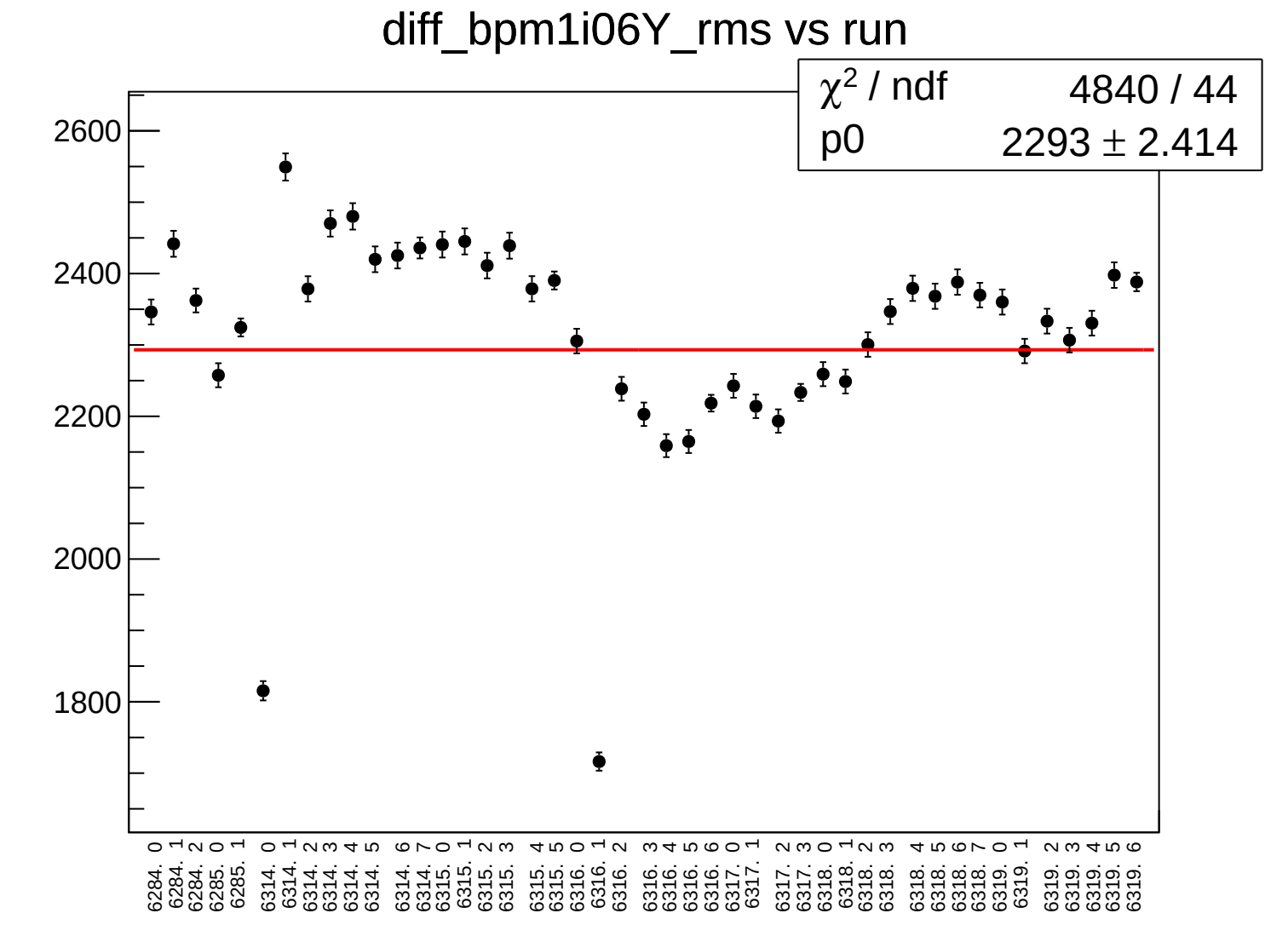

diff_bpm1i06X_mean vs run
χ^2 / ndf 44.5 / 44
p0 149.3 ± 3.137
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −202.1
Std Dev 0
2
1
0
−1
−2

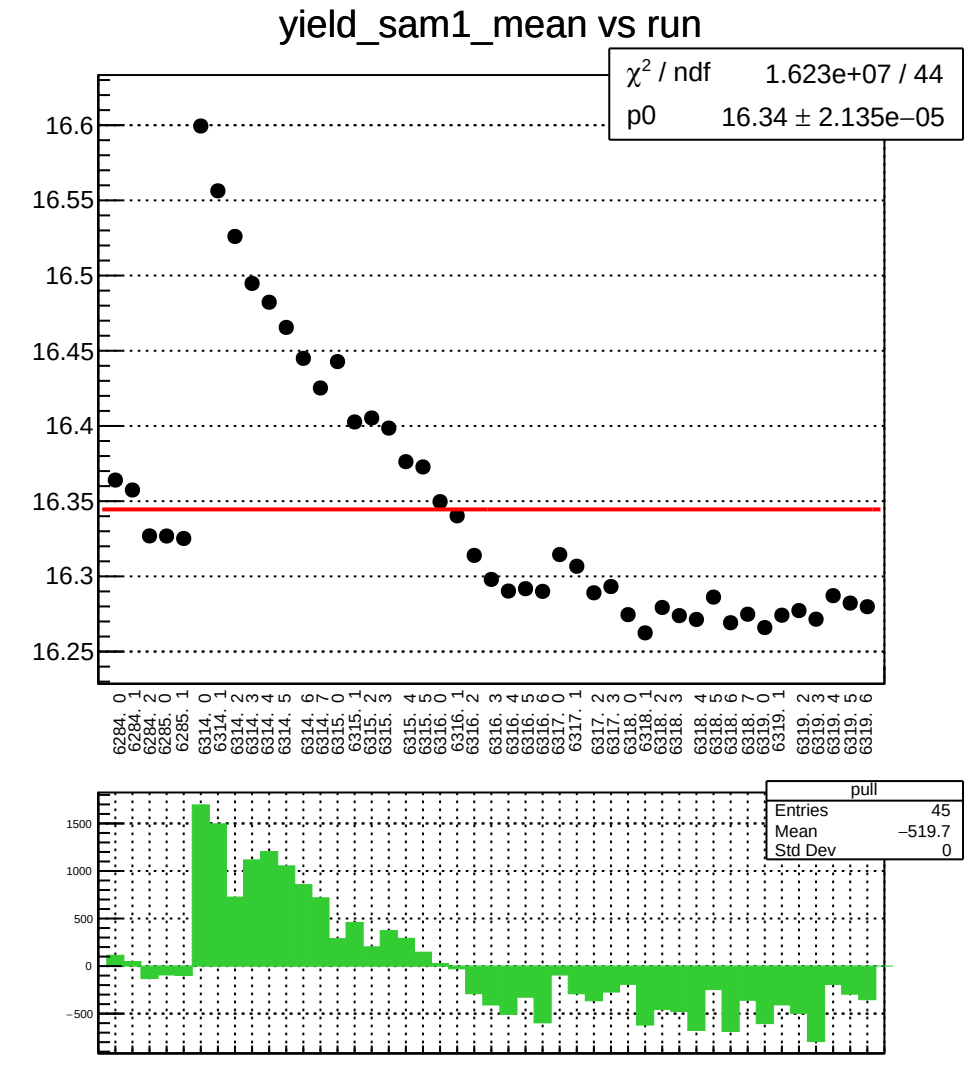

pull1D
Entries 45
Mean −0.01067
Std Dev 0.9944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

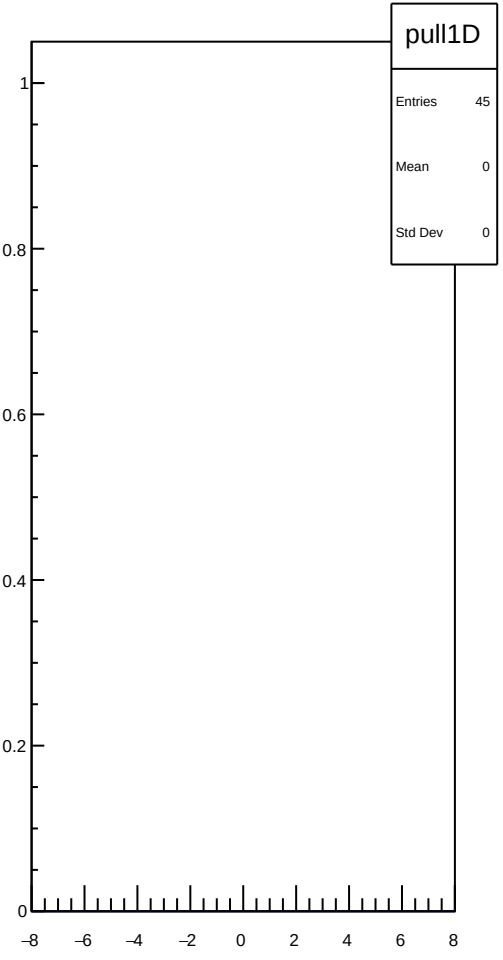

diff_bpm1i06X_rms vs run
χ^2 / ndf 2580 / 44
p0 2110 ± 2.218
2300
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

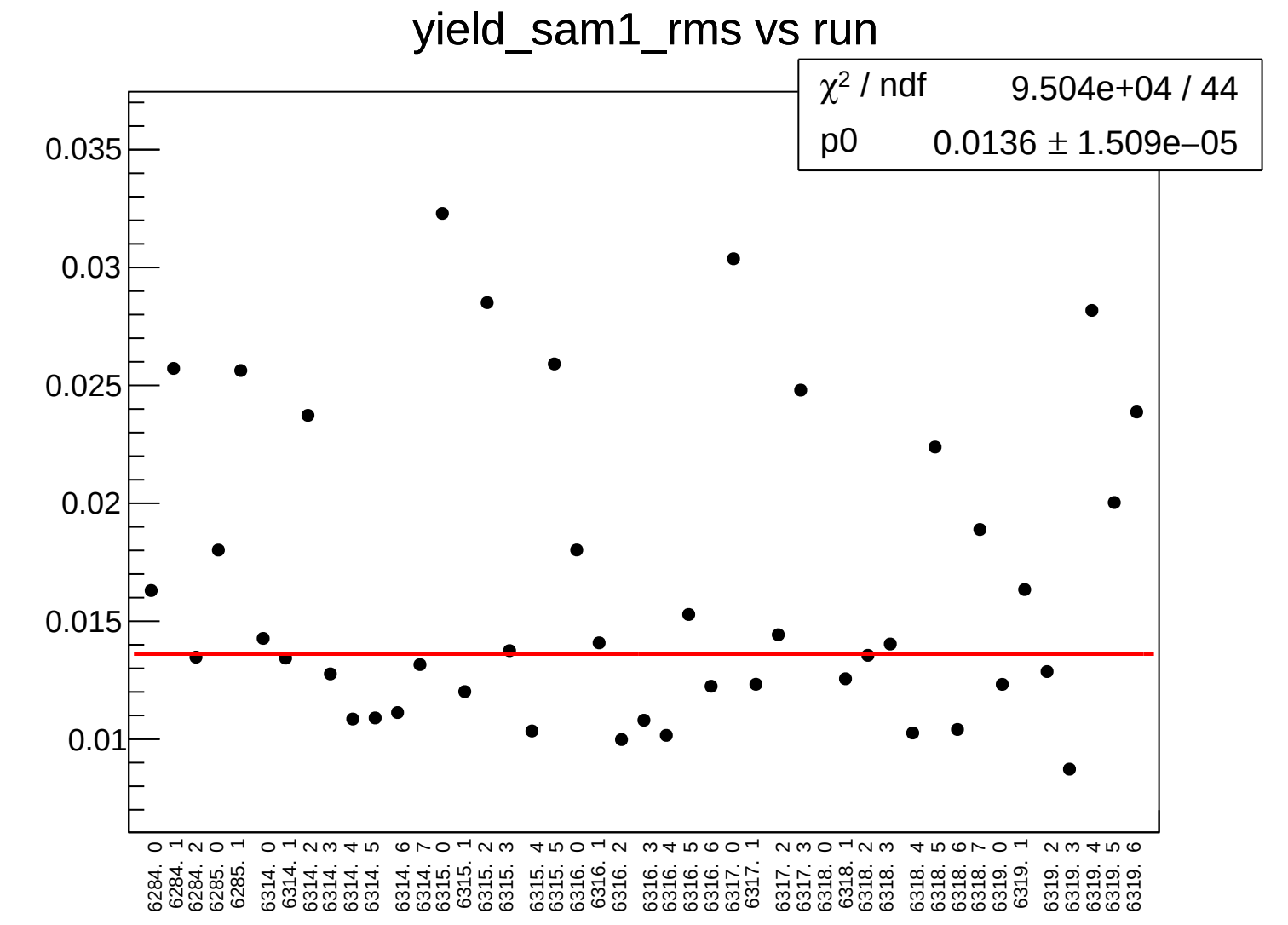

diff_bpm1i06Y_mean vs run
χ² / ndf 35.93 / 44
p0 −34.99 ± 3.414
pull
Entries 45
Mean −43.37
Std Dev 0

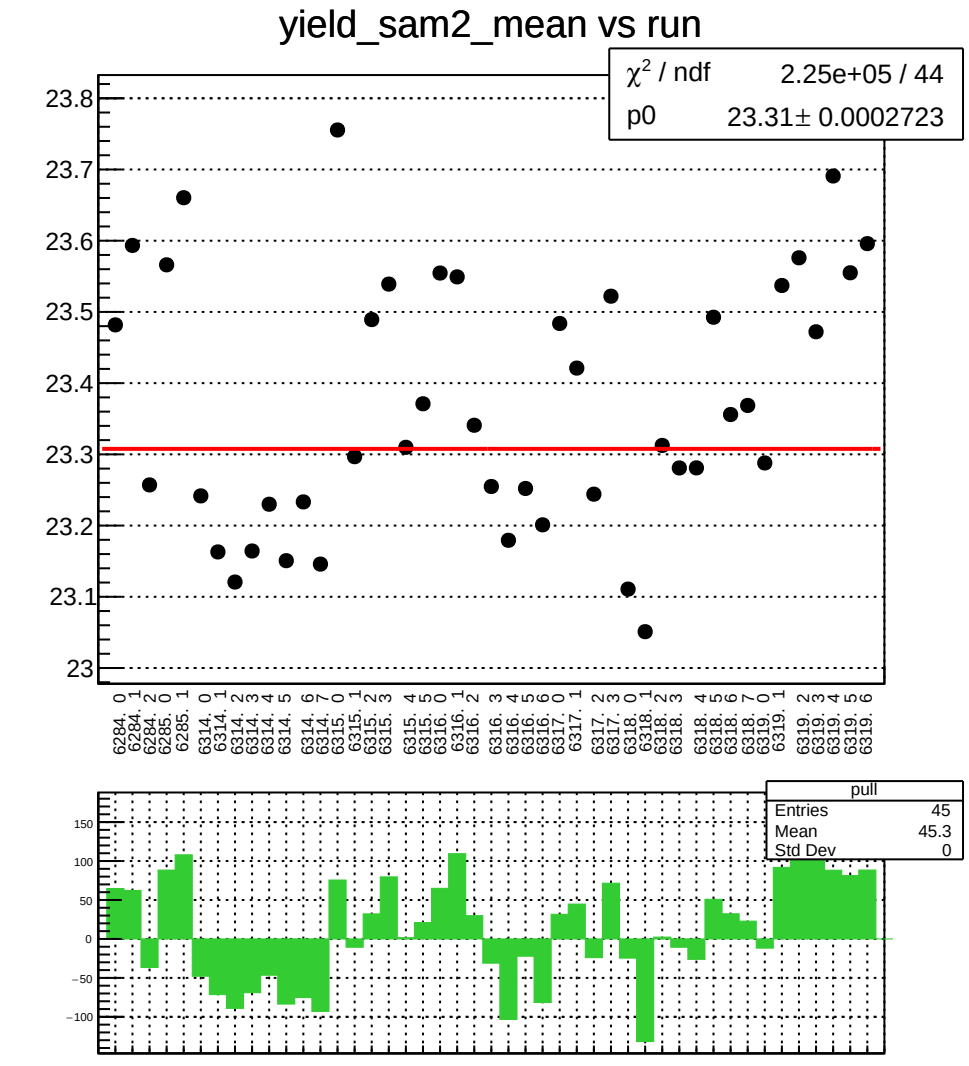

pull1D
Entries 45
Mean −0.02284
Std Dev 0.8933

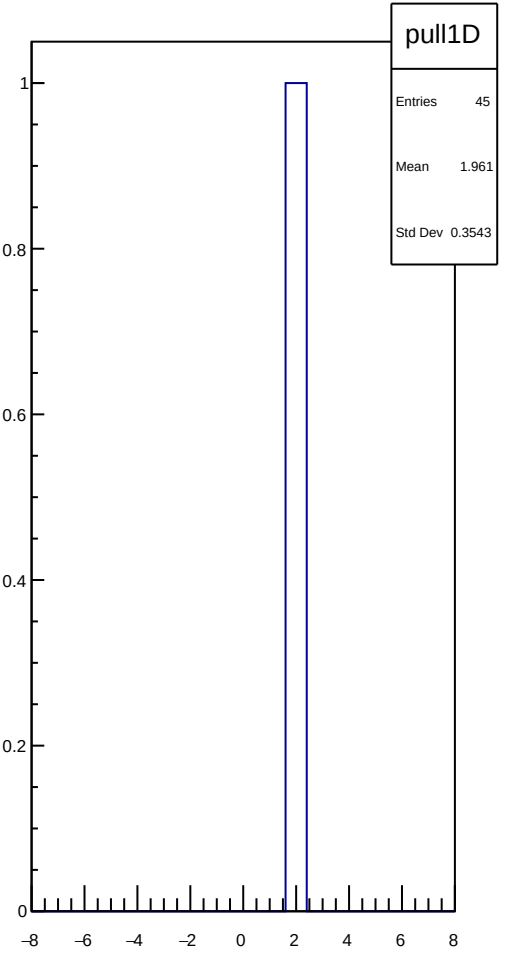

diff_bpm1i06Y_rms vs run
χ² / ndf 4840 / 44
p0 2293 ± 2.414
2600
2400
2200
2000
1800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

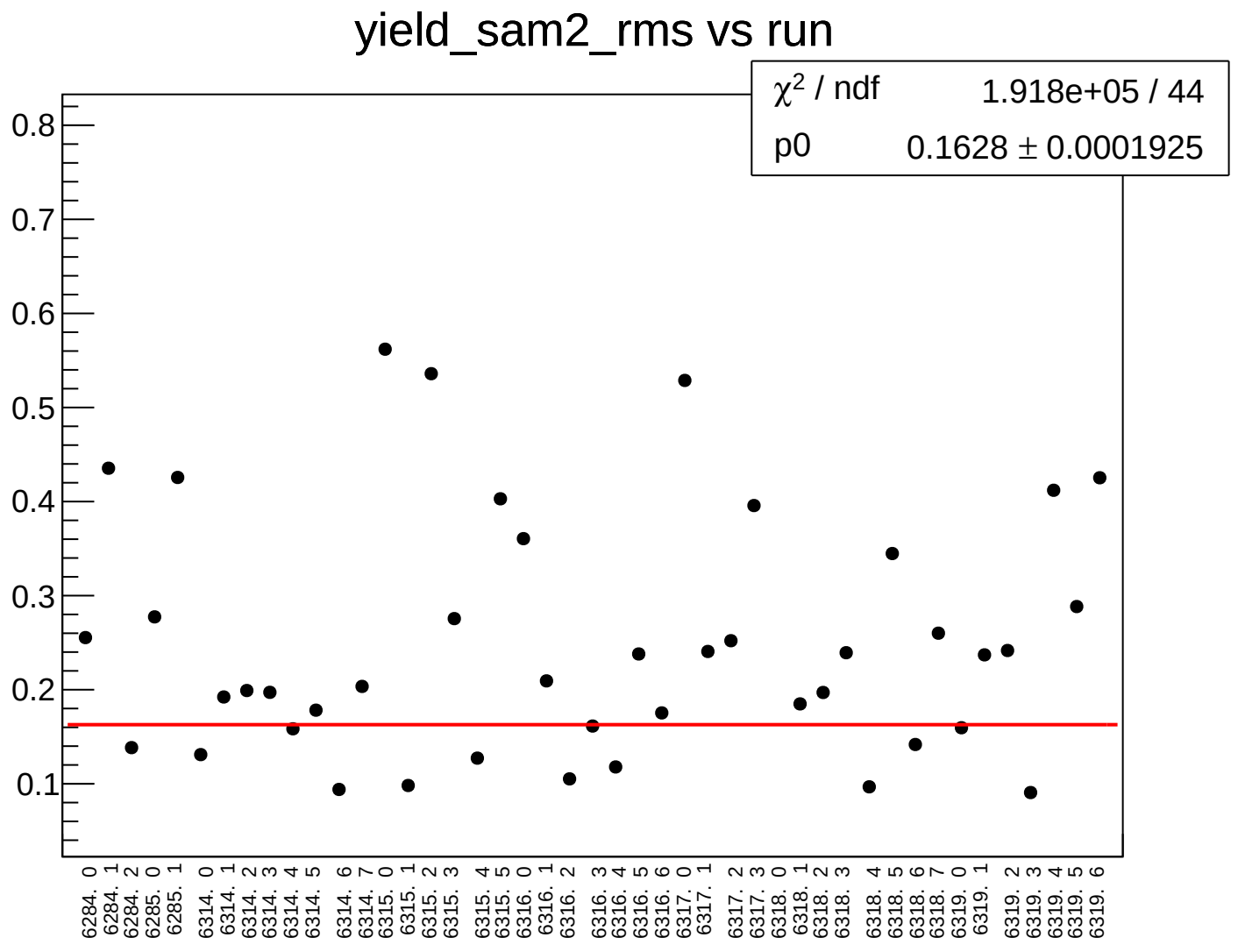

yield_sam1_mean vs run
χ² / ndf 1.623e+07 / 44
p0 16.34 ± 2.135e−05
16.6
16.55
16.5
16.45
16.4
16.35
16.3
16.25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −519.7
Std Dev 0
1500
1000
500
0
−500

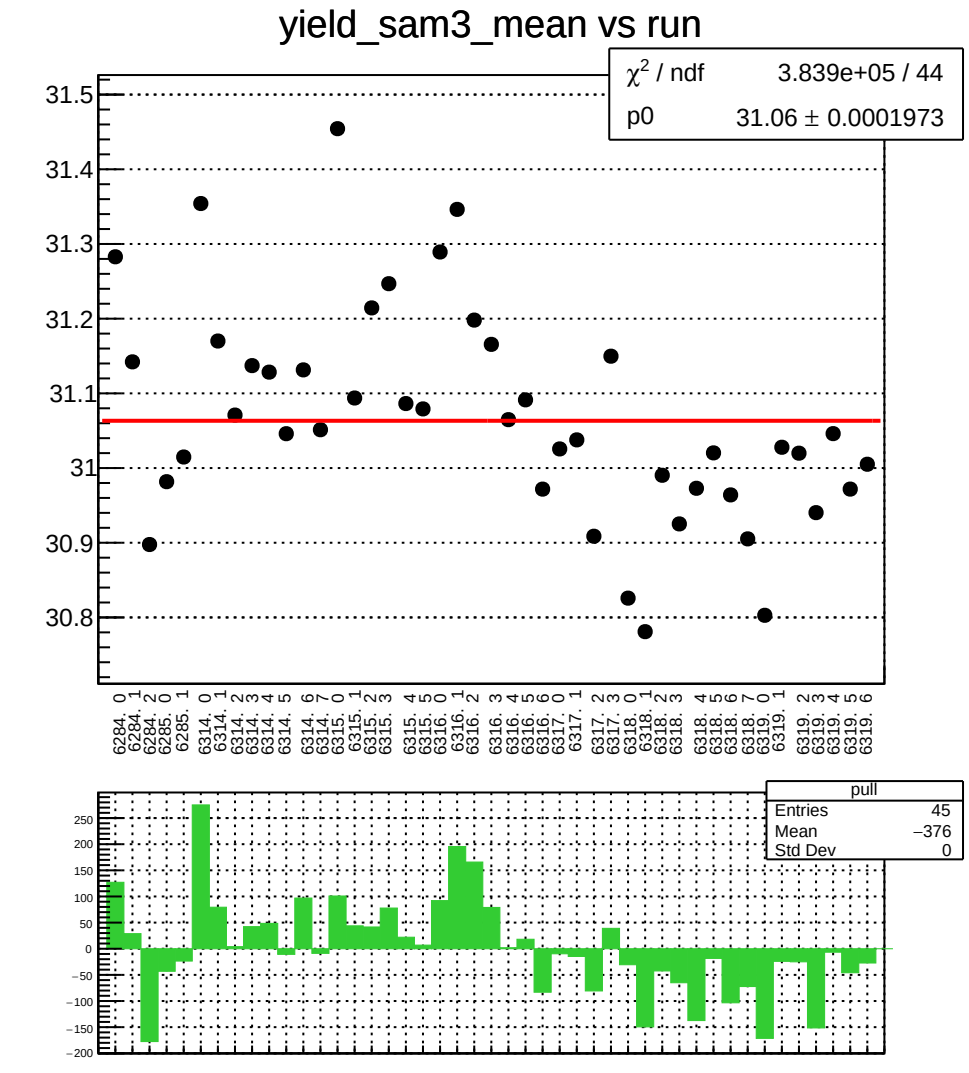

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

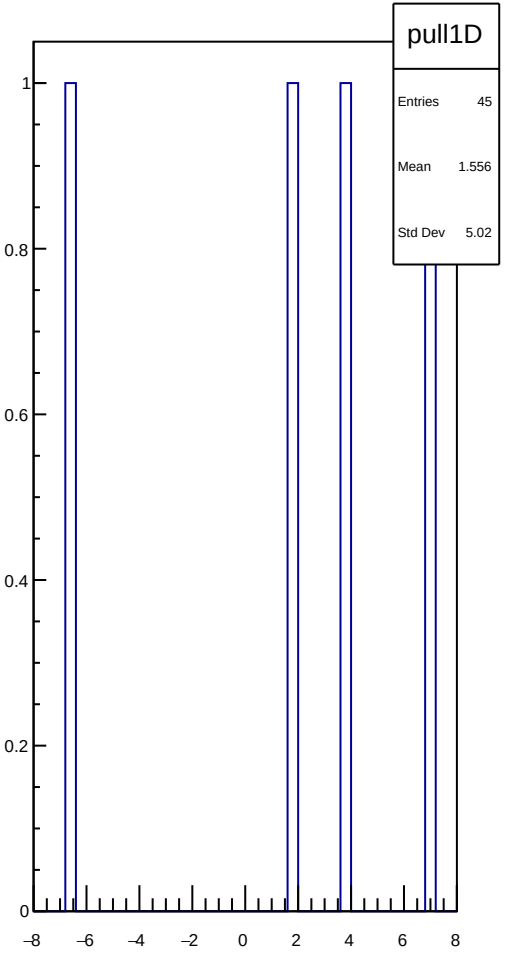

yield_sam1_rms vs run
χ² / ndf 9.504e+04 / 44
p0 0.0136 ± 1.509e−05
0.035
0.03
0.025
0.02
0.015
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

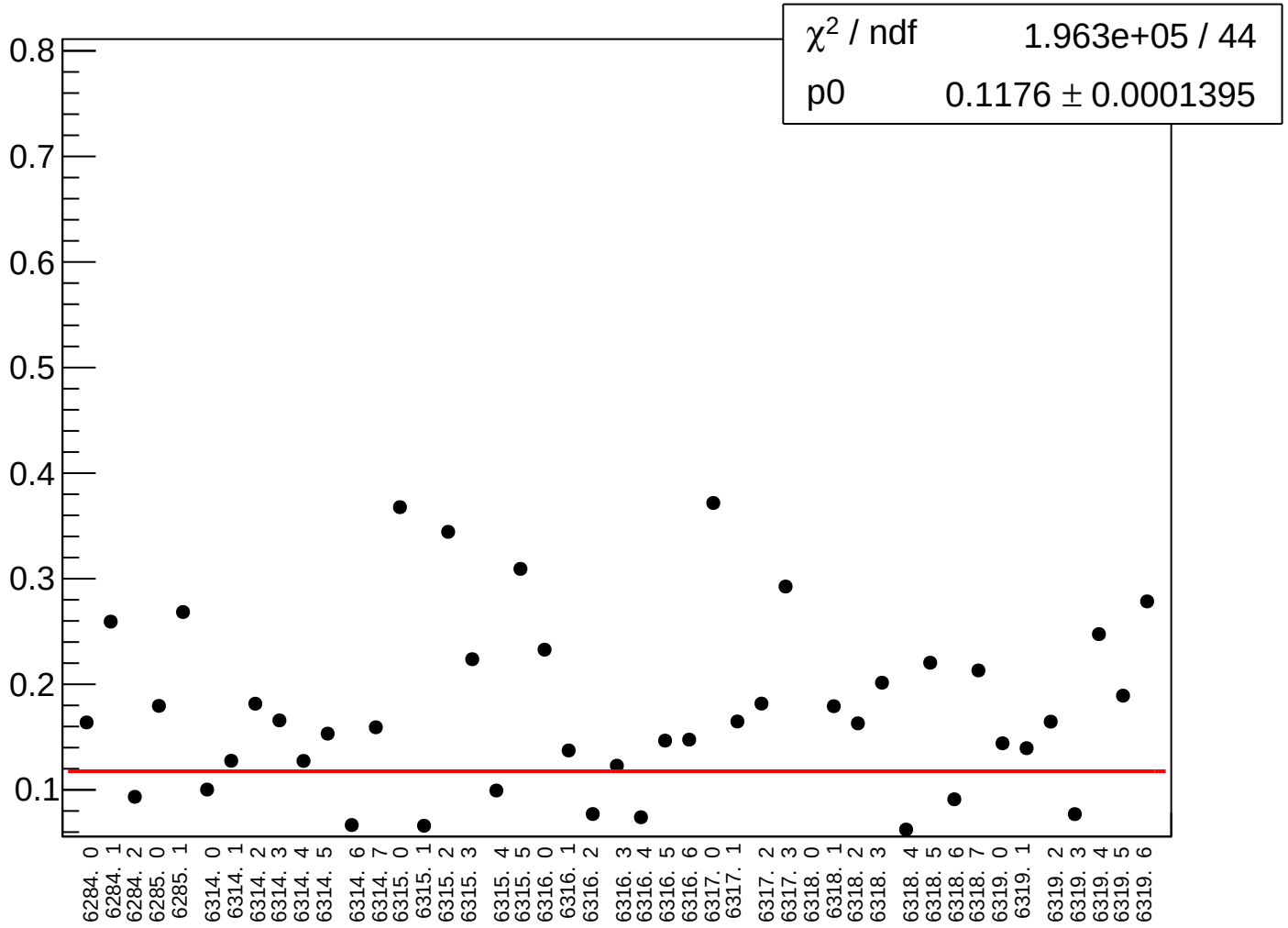

yield_sam2_mean vs run
χ² / ndf 2.25e+05 / 44
p0 23.31± 0.0002723
23.8
23.7
23.6
23.5
23.4
23.3
23.2
23.1
23
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 45.3
Std Dev 0
150
100
50
0
−50
−100

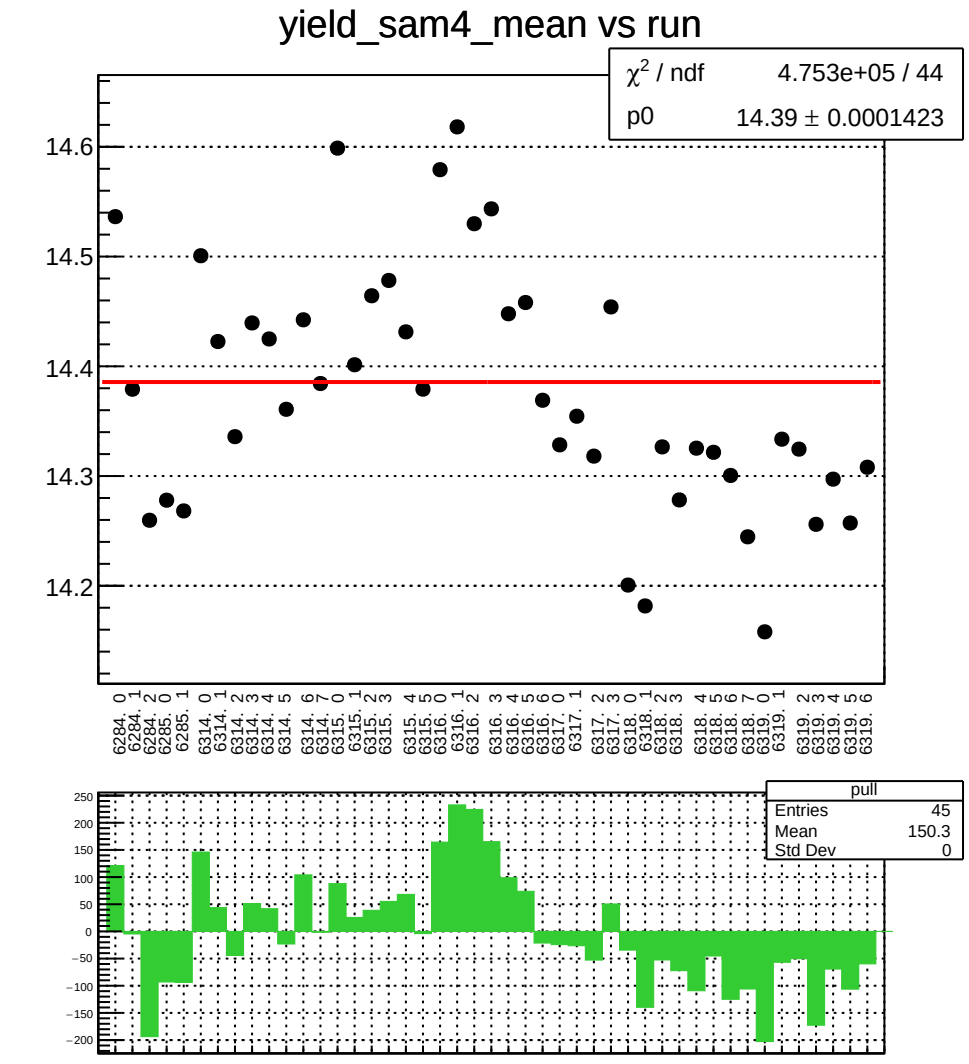

pull1D
Entries 45
Mean 1.961
Std Dev 0.3543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

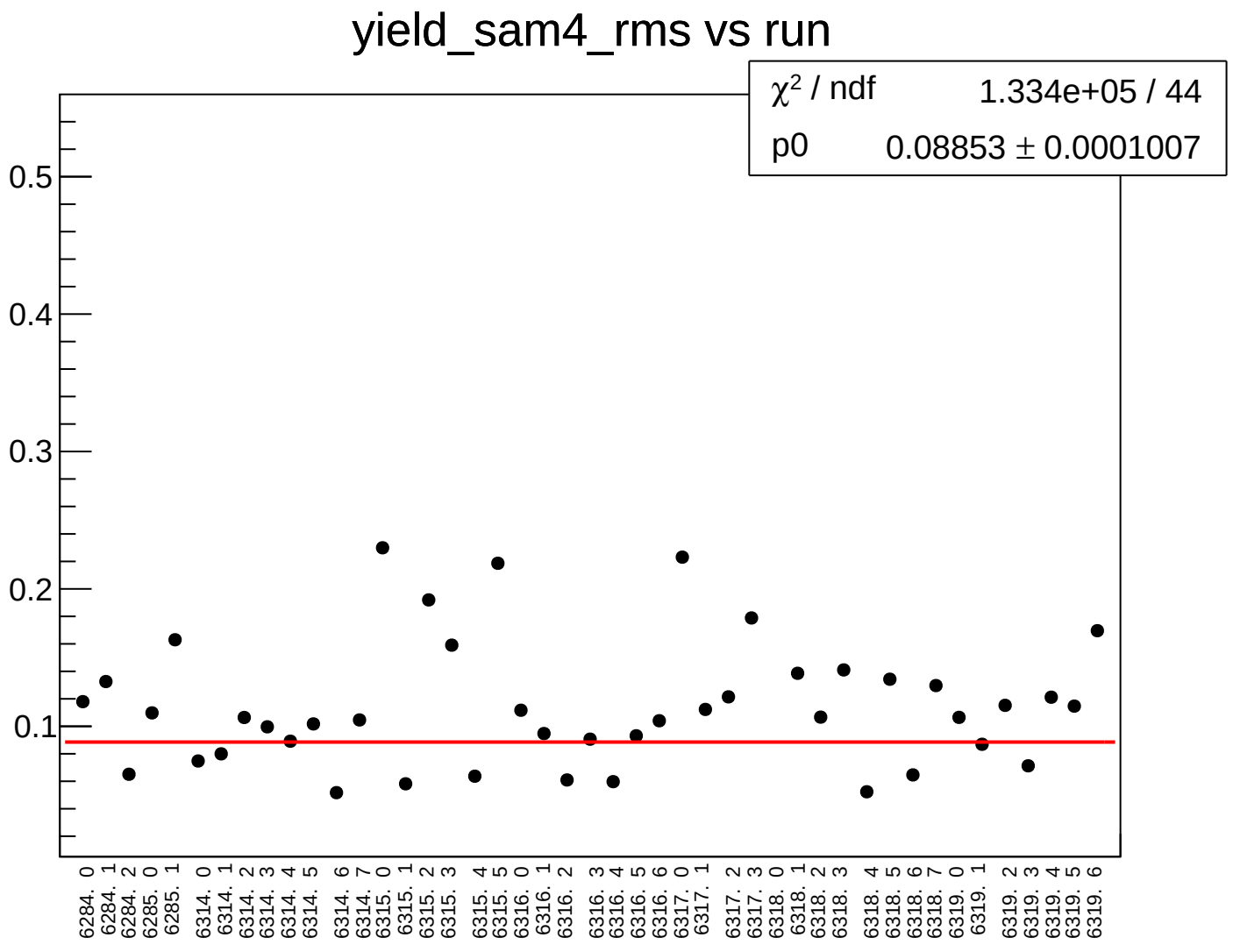

yield_sam2_rms vs run
χ² / ndf 1.918e+05 / 44
p0 0.1628 ± 0.0001925
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

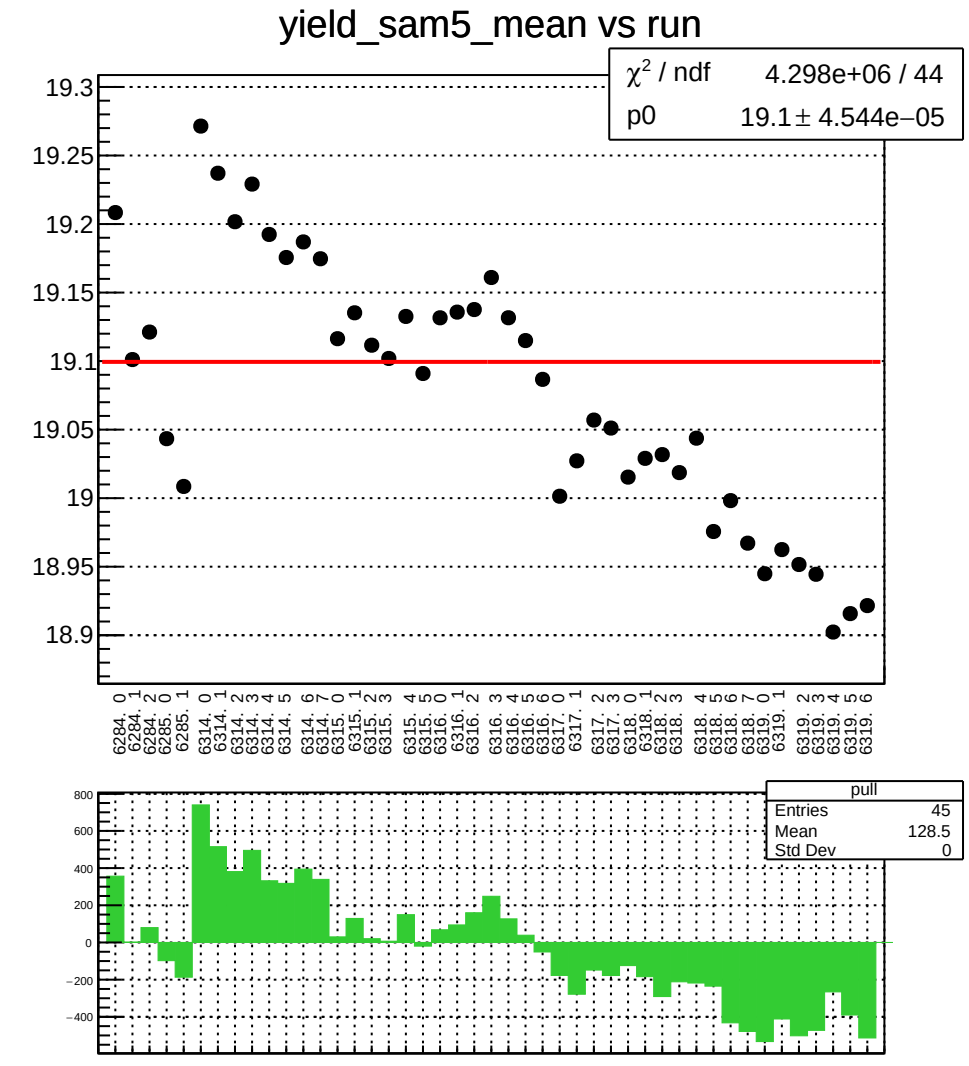

yield_sam3_mean vs run
χ² / ndf 3.839e+05 / 44
p0 31.06 ± 0.0001973
31.5
31.4
31.3
31.2
31.1
31
30.9
30.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −376
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 45
Mean 1.556
Std Dev 5.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam3_rms vs run
χ² / ndf 1.963e+05 / 44
p0 0.1176 ± 0.0001395
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_sam4_mean vs run
χ² / ndf 4.753e+05 / 44
p0 14.39 ± 0.0001423
14.6
14.5
14.4
14.3
14.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 150.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean −3.385
Std Dev 1.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam4_rms vs run
χ² / ndf 1.334e+05 / 44
p0 0.08853 ± 0.0001007
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_sam5_mean vs run
χ² / ndf 4.298e+06 / 44
p0 19.1 ± 4.544e−05
19.3
19.25
19.2
19.15
19.1
19.05
19
18.95
18.9
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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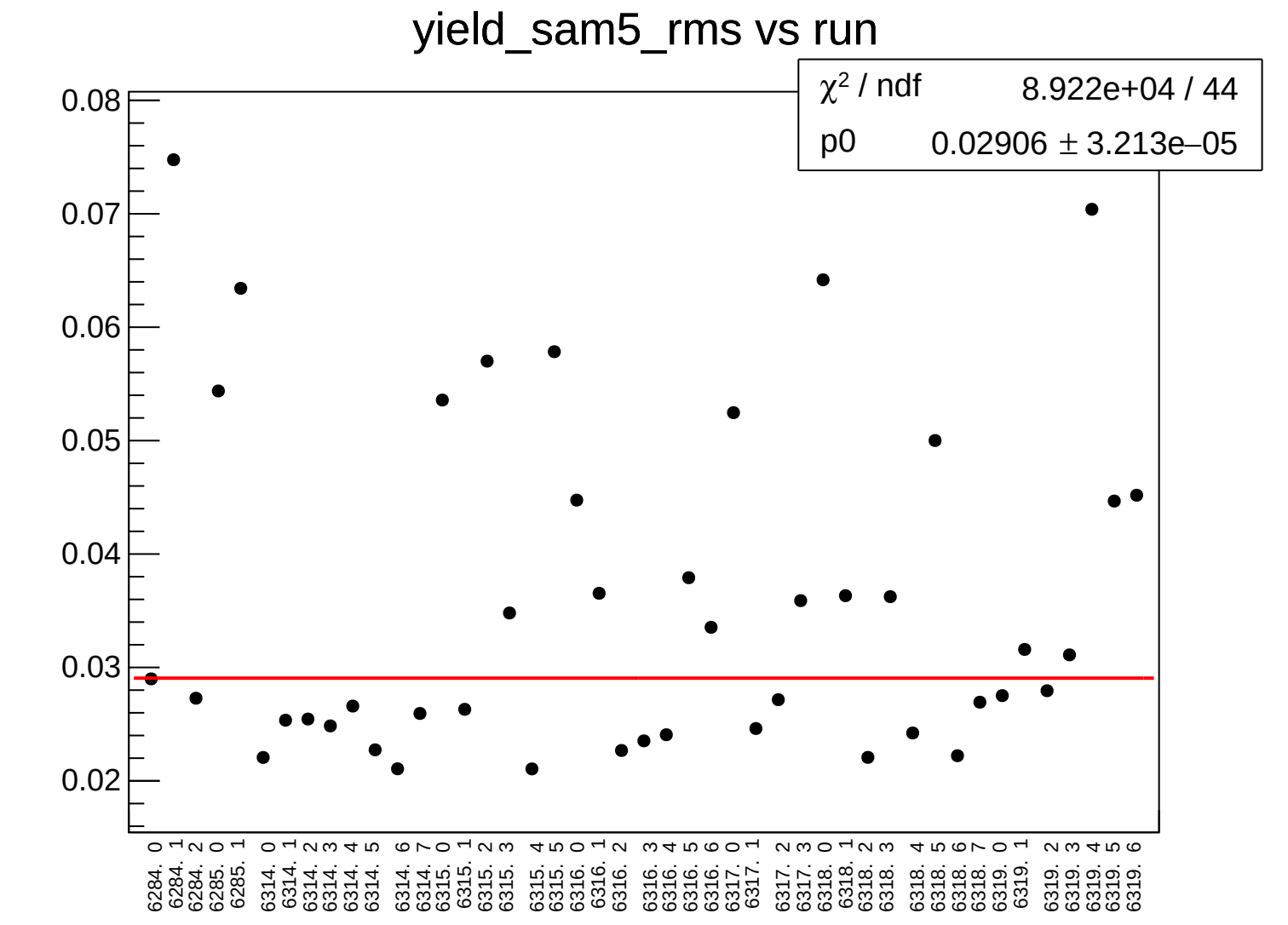
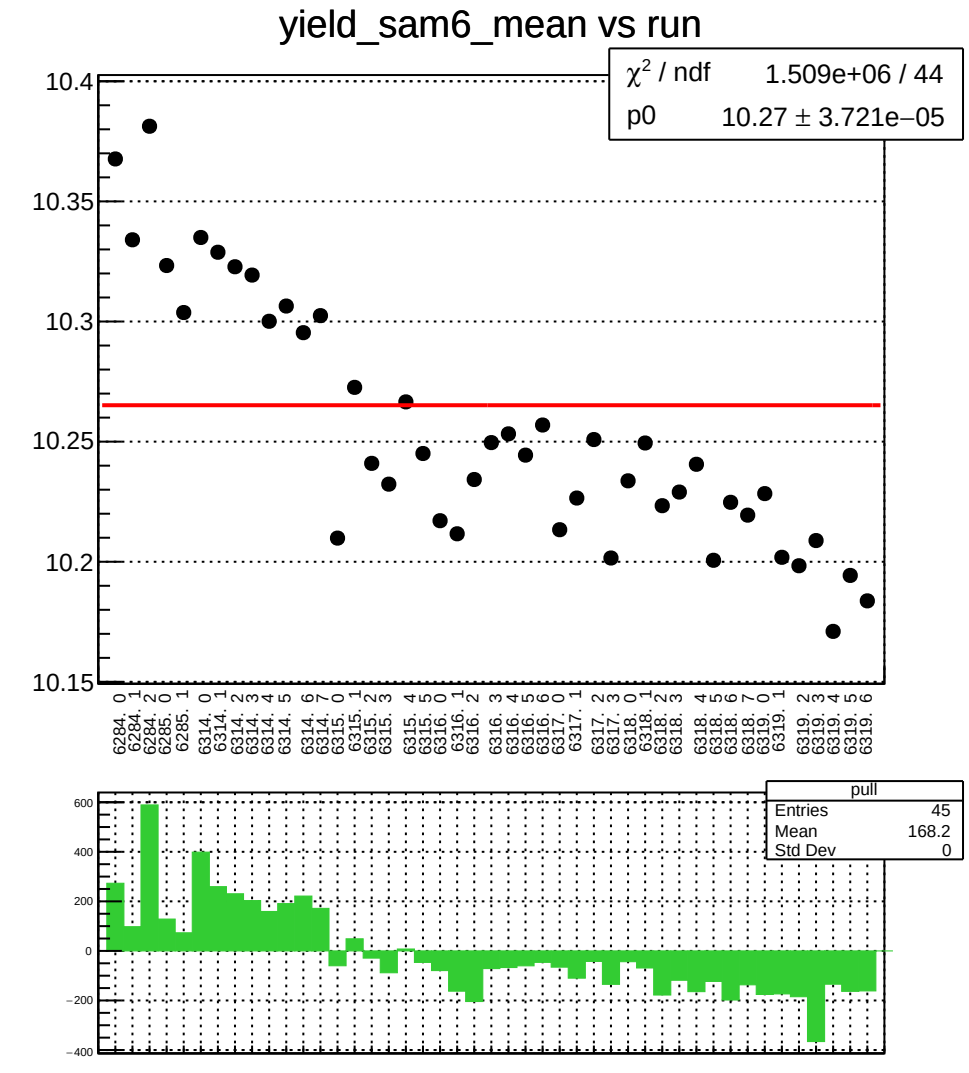
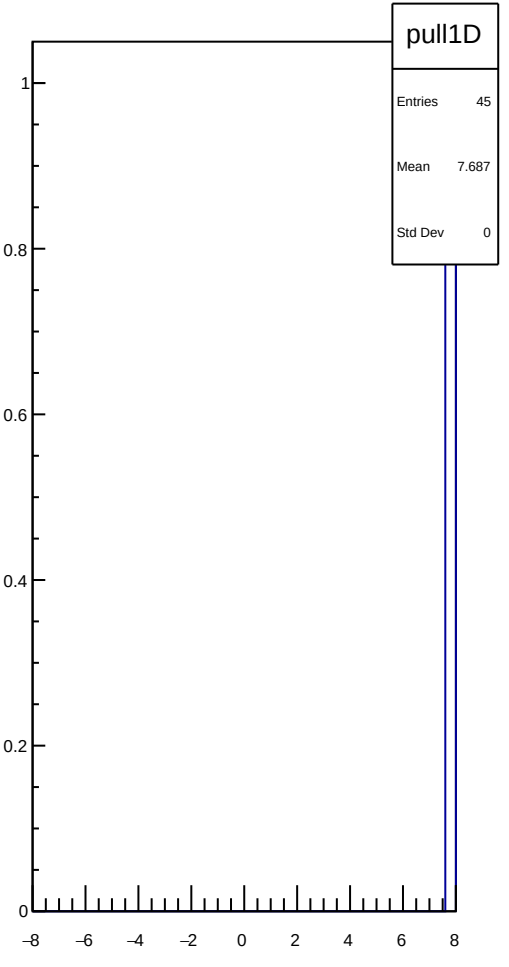
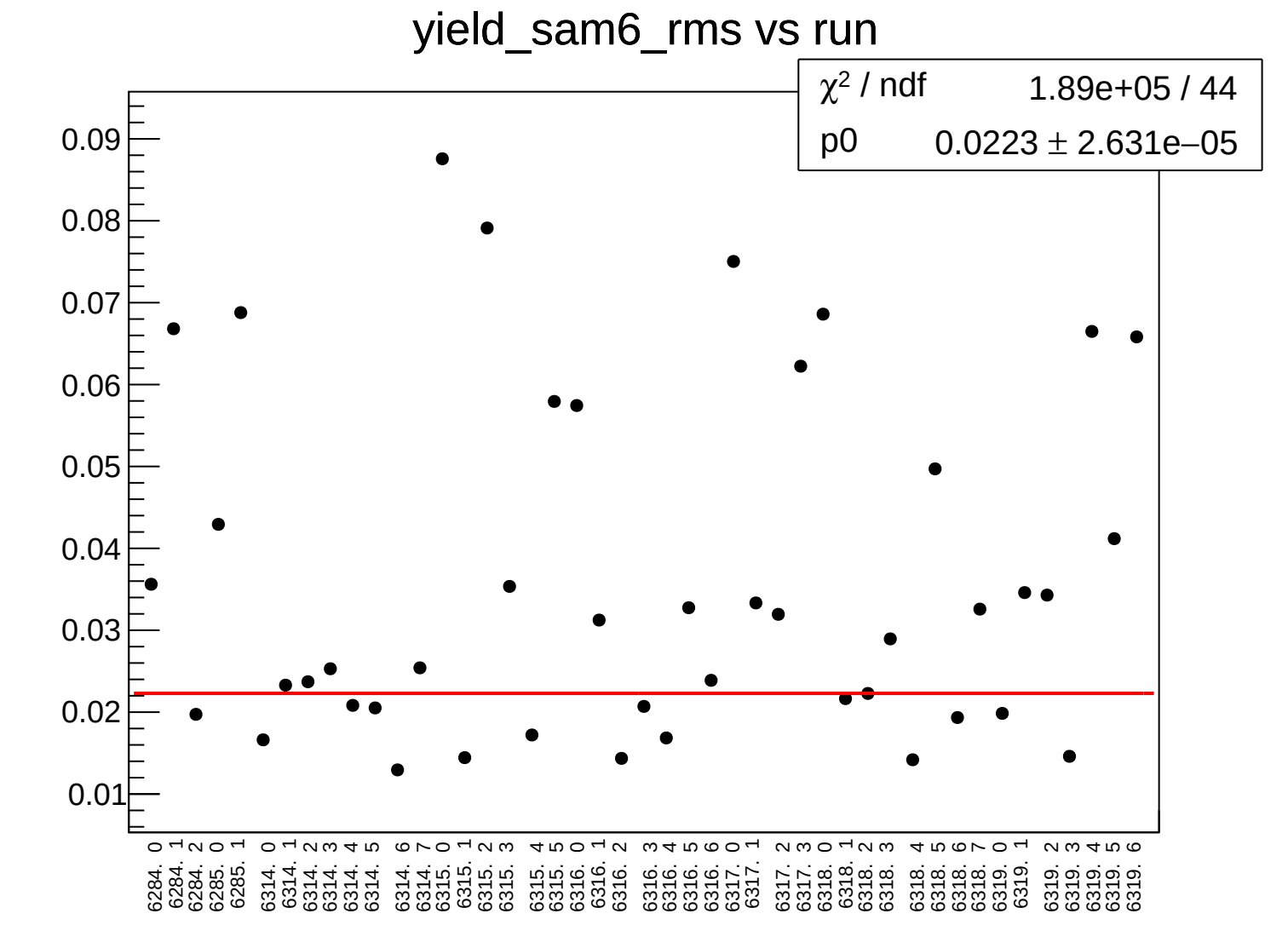
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 128.5
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 45
Mean 4.487
Std Dev 2.339
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam5_rms vs run
χ² / ndf 8.922e+04 / 44
p0 0.02906 ± 3.213e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


yield_sam6_mean vs run
χ² / ndf 1.509e+06 / 44
p0 10.27 ± 3.721e−05
10.4
10.35
10.3
10.25
10.2
10.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 168.2
Std Dev 0
600
400
200
0
−200
−400


pull1D
Entries 45
Mean 7.687
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam6_rms vs run
χ² / ndf 1.89e+05 / 44
p0 0.0223 ± 2.631e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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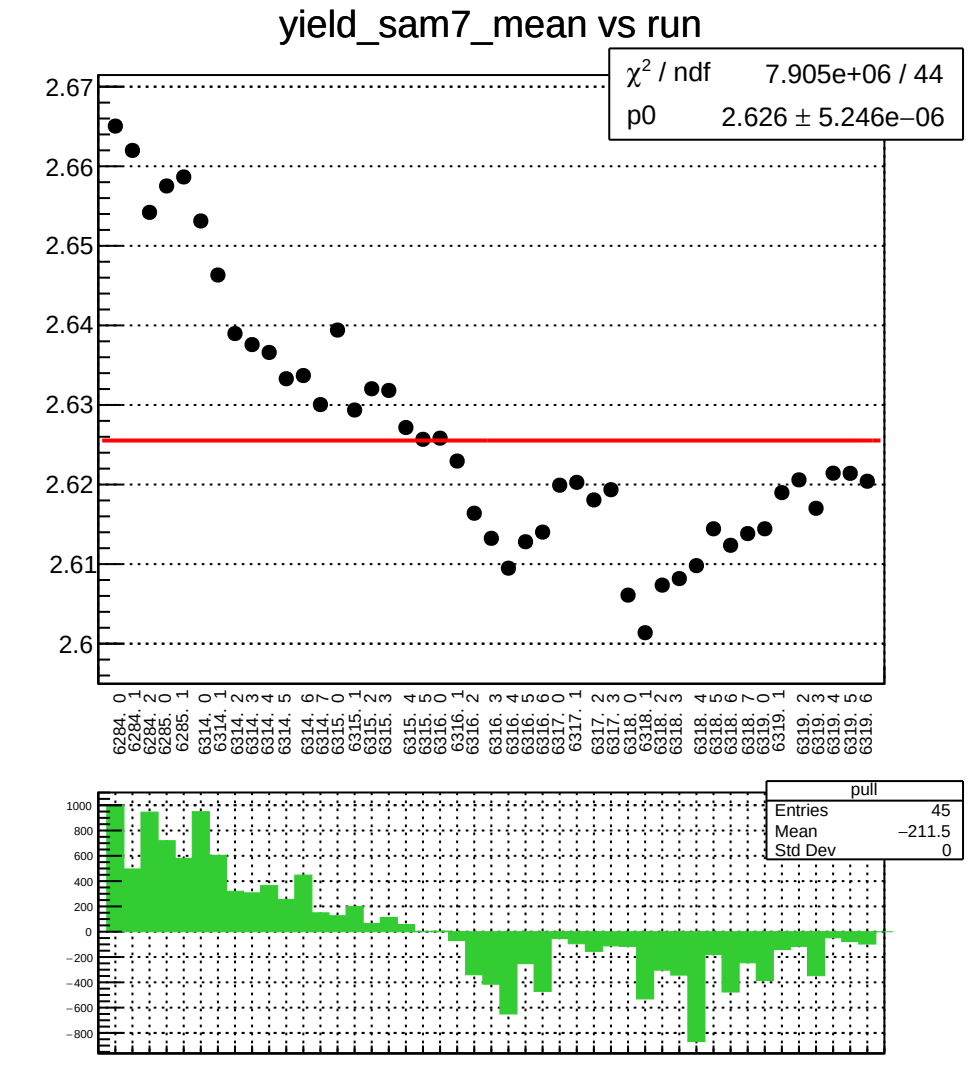
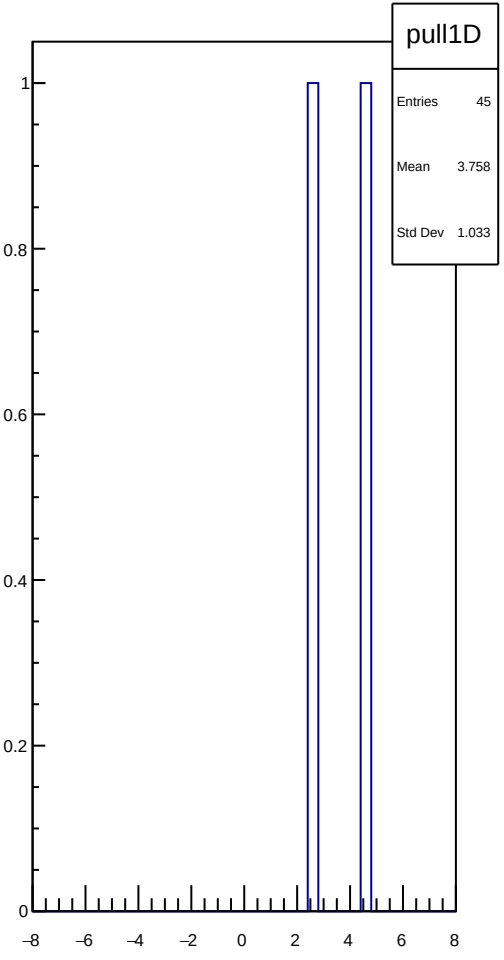
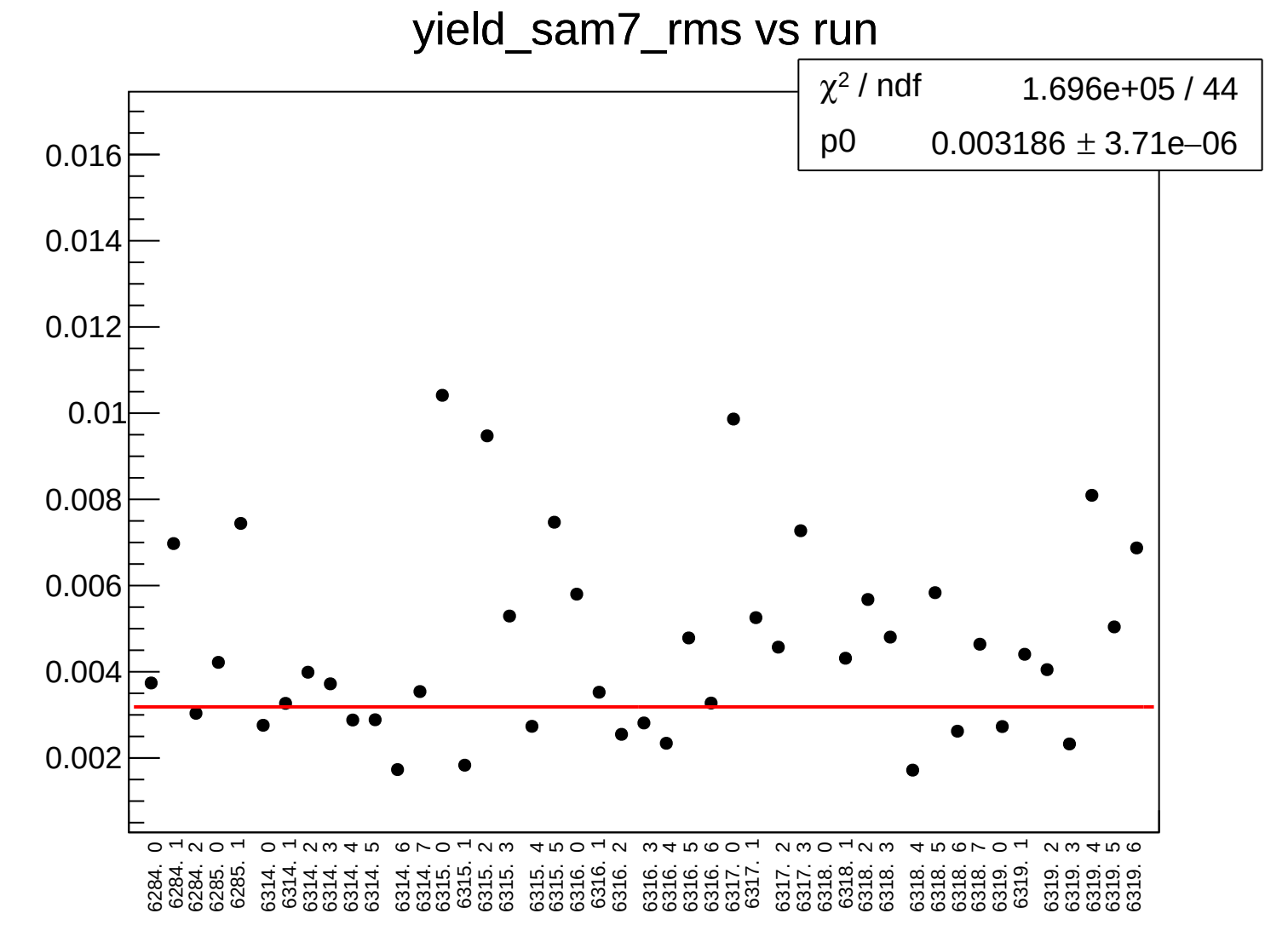
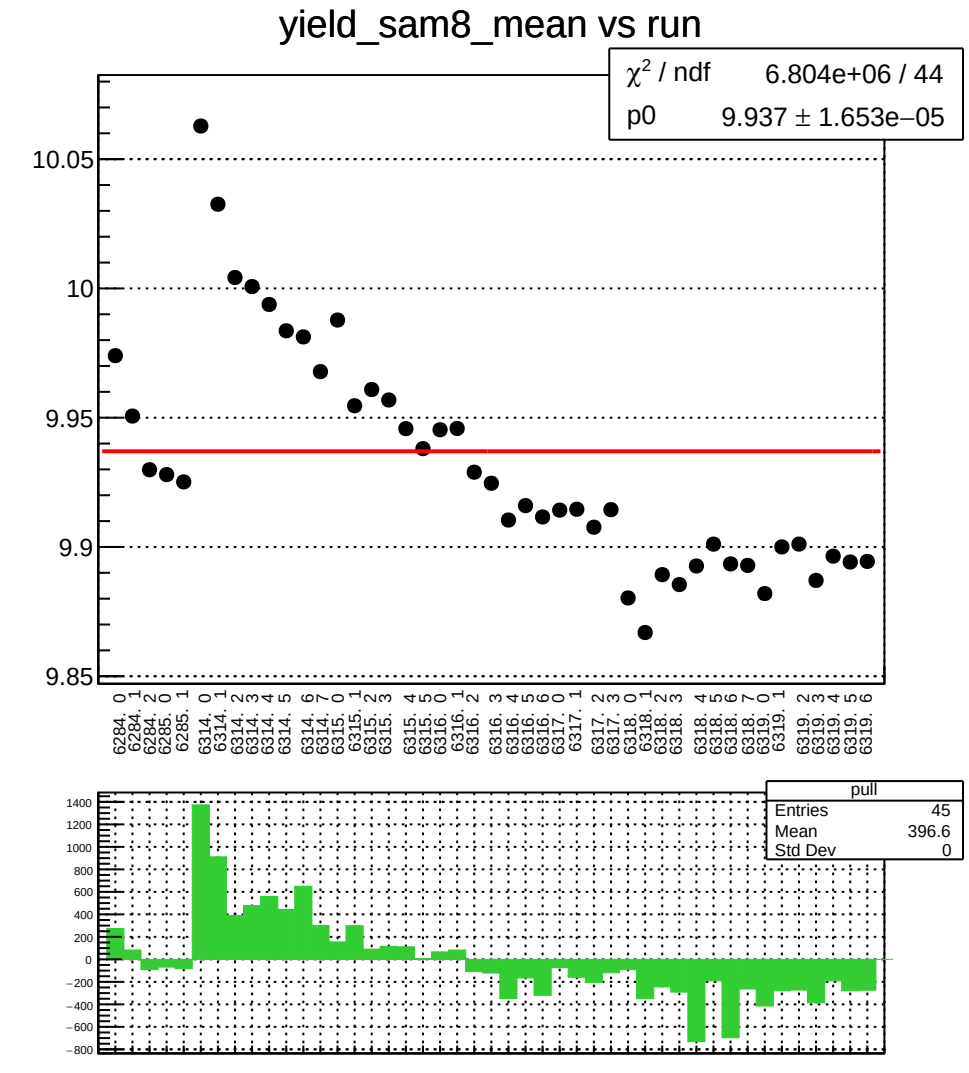
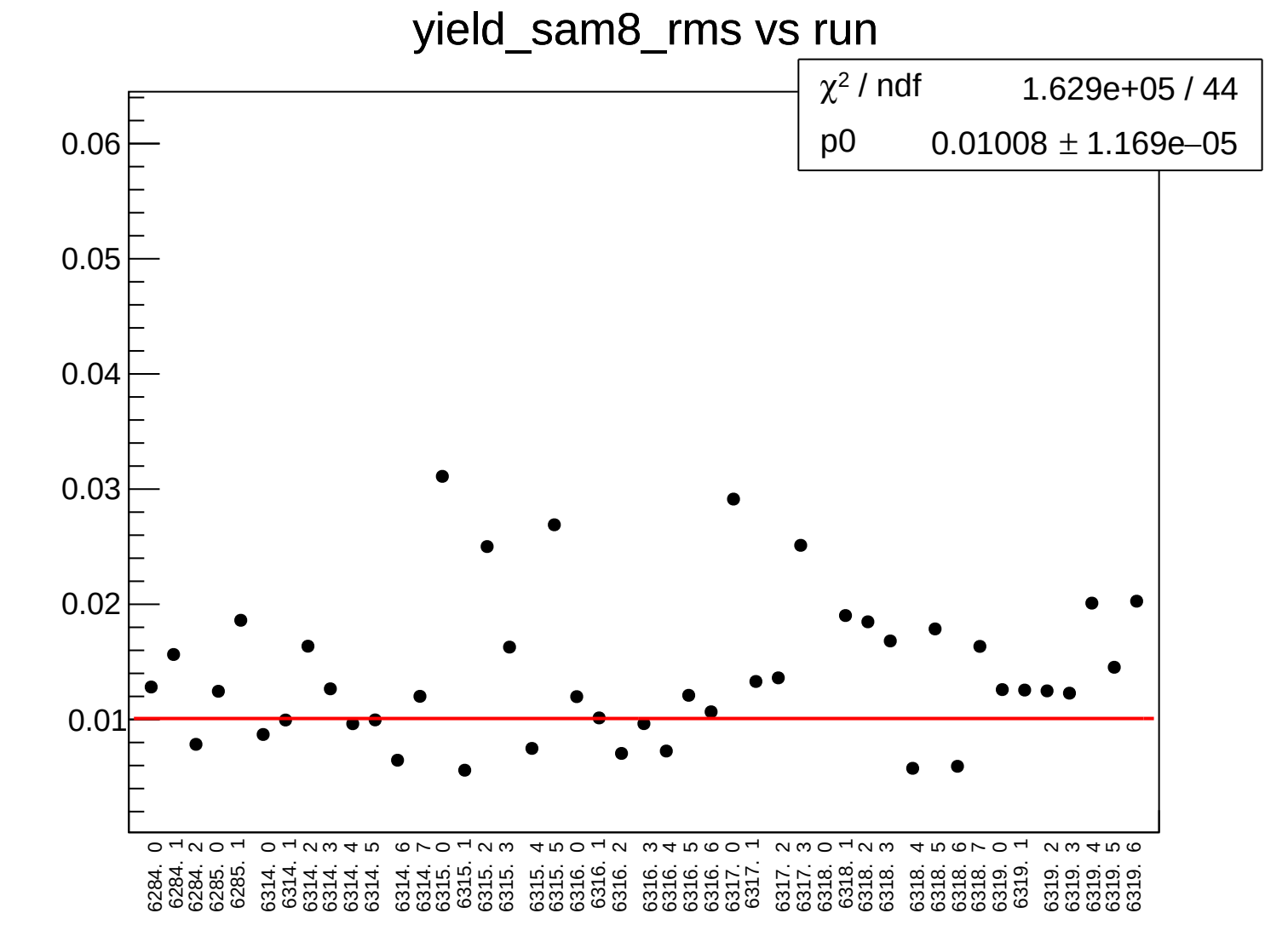
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

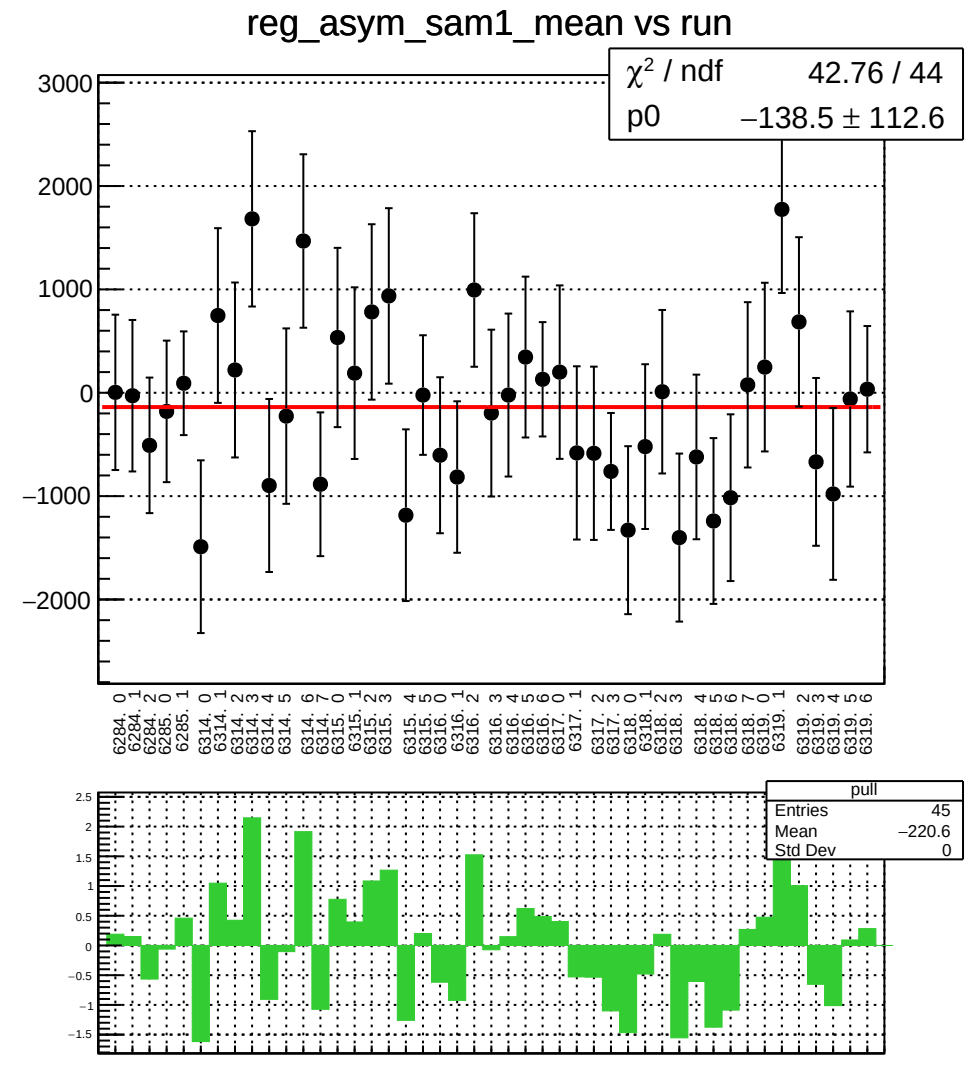

yield_sam7_mean vs run
χ² / ndf 7.905e+06 / 44
p0 2.626 ± 5.246e−06
2.67
2.66
2.65
2.64
2.63
2.62
2.61
2.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −211.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

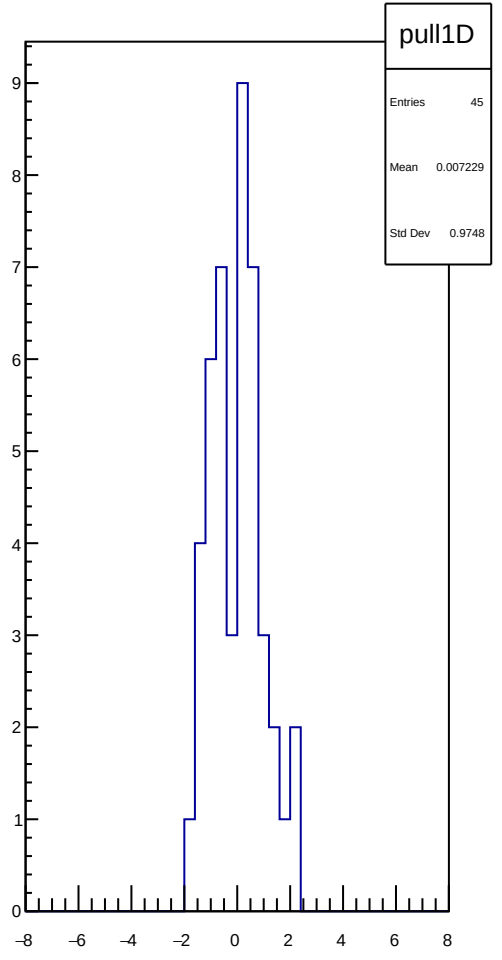

pull1D
Entries 45
Mean 3.758
Std Dev 1.033
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

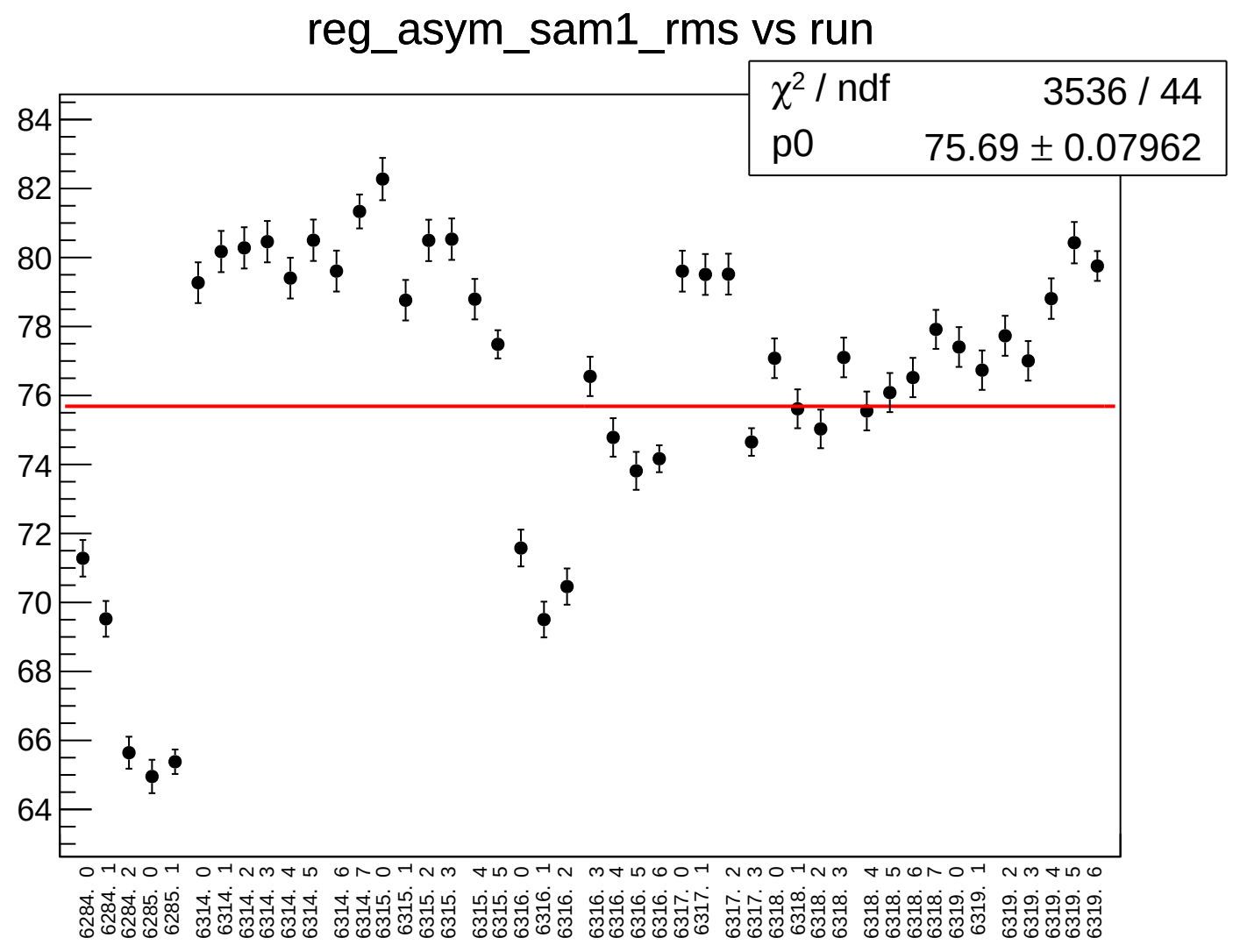

yield_sam7_rms vs run
χ² / ndf 1.696e+05 / 44
p0 0.003186 ± 3.71e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

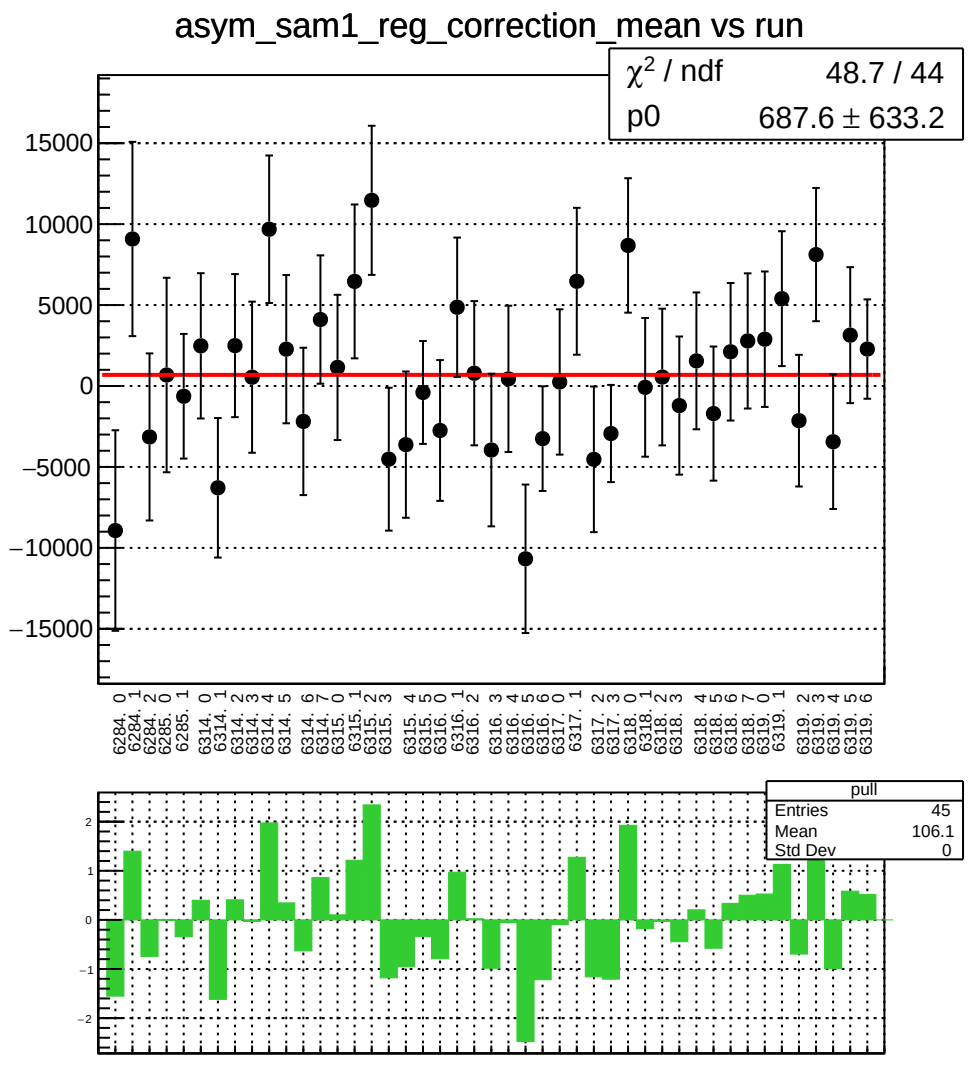

yield_sam8_mean vs run
χ² / ndf 6.804e+06 / 44
p0 9.937 ± 1.653e−05
10.05
10
9.95
9.9
9.85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 396.6
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 45
Mean 5.148
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

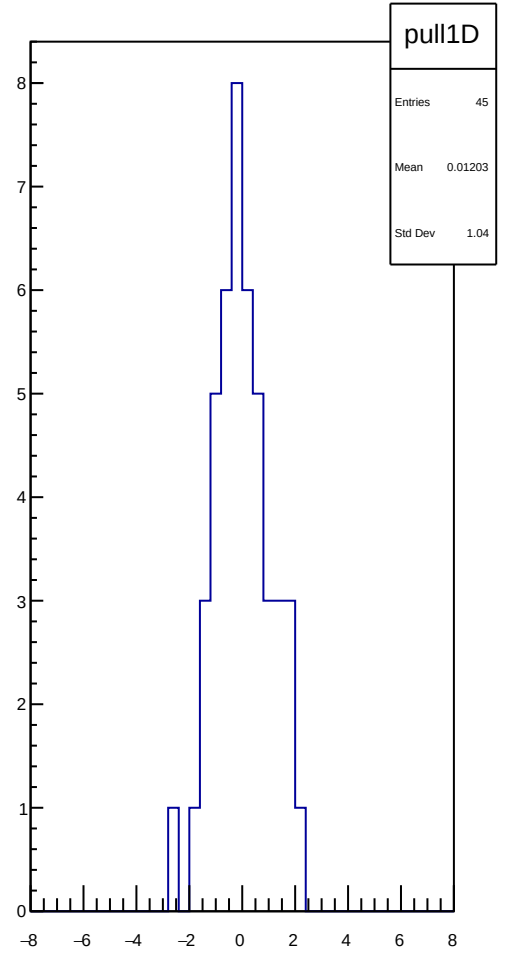

yield_sam8_rms vs run
χ² / ndf 1.629e+05 / 44
p0 0.01008 ± 1.169e–05
0.06
0.05
0.04
0.03
0.02
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

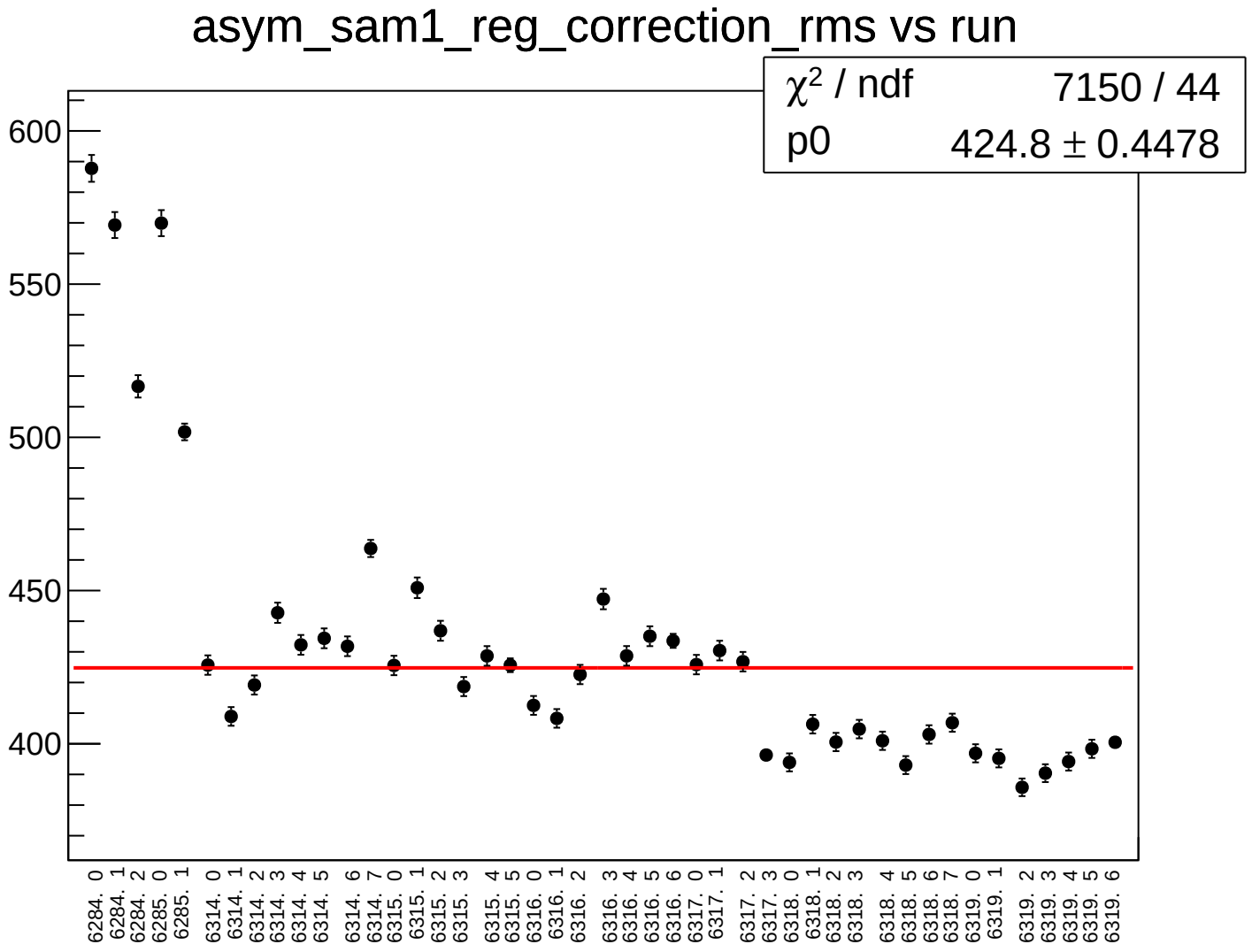

reg_asym_sam1_mean vs run
χ² / ndf 42.76 / 44
p0 −138.5 ± 112.6
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −220.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

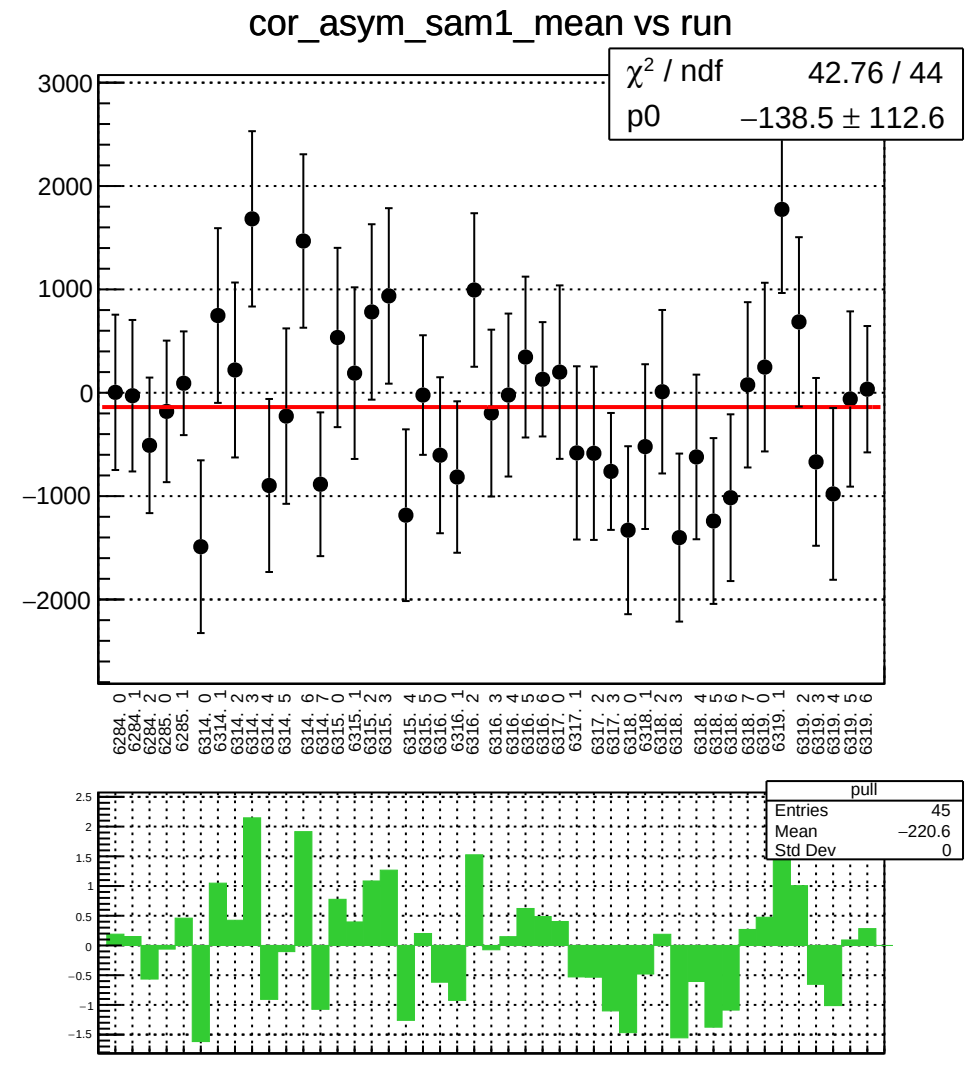

pull1D
Entries 45
Mean 0.007229
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

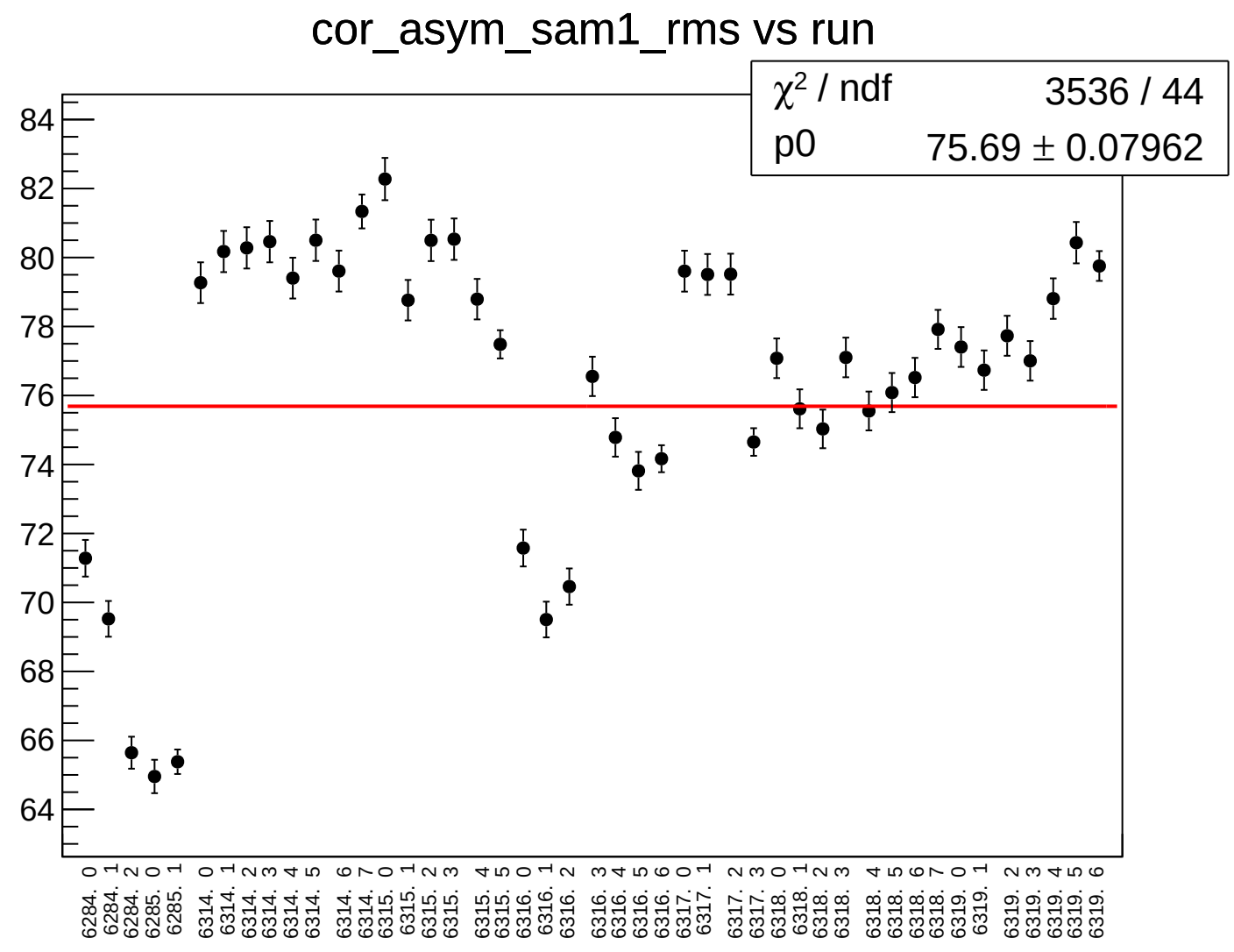

reg_asym_sam1_rms vs run
χ² / ndf 3536 / 44
p0 75.69 ± 0.07962
84
82
80
78
76
74
72
70
68
66
64
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_reg_correction_mean vs run
χ² / ndf 48.7 / 44
p0 687.6 ± 633.2
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 106.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01203
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_reg_correction_rms vs run
χ² / ndf 7150 / 44
p0 424.8 ± 0.4478
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam1_mean vs run
χ² / ndf 42.76 / 44
p0 −138.5 ± 112.6
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −220.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.007229
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 3536 / 44
p0 75.69 ± 0.07962
84
82
80
78
76
74
72
70
68
66
64
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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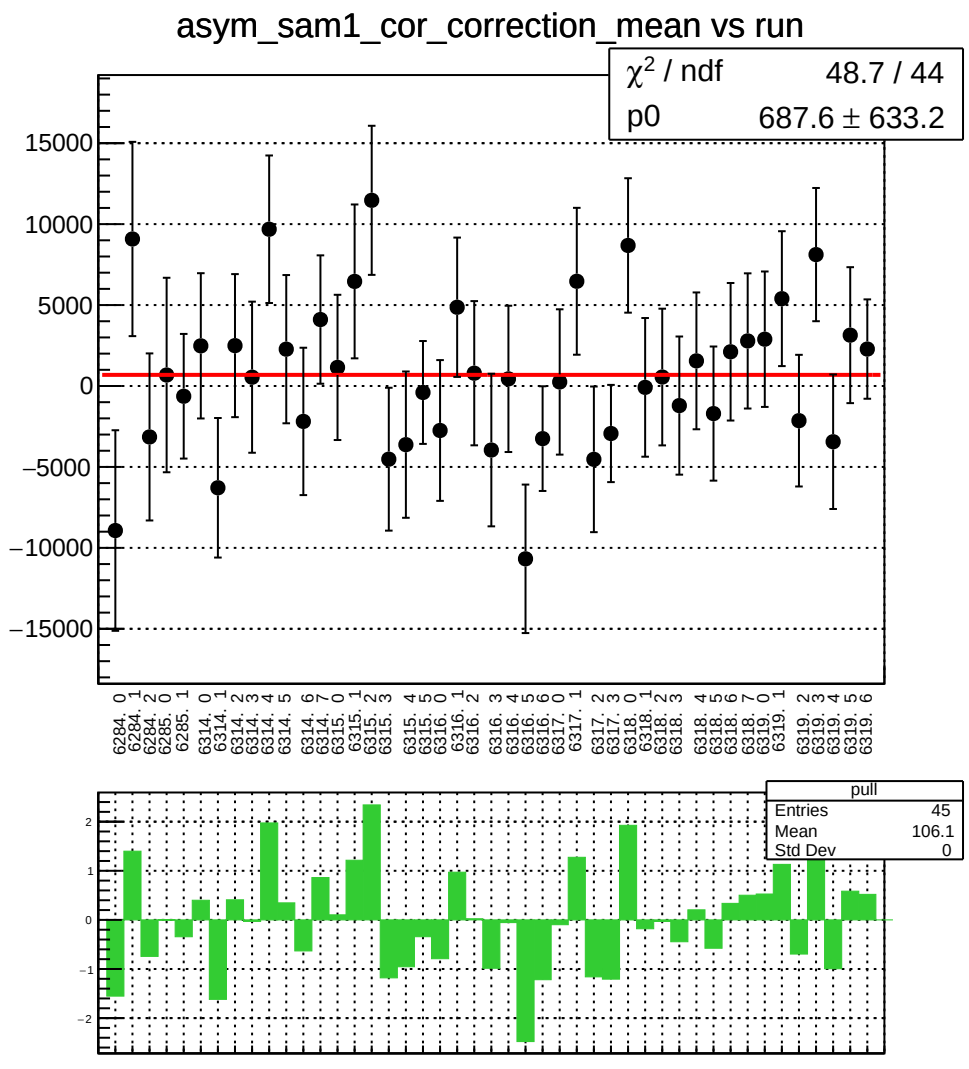
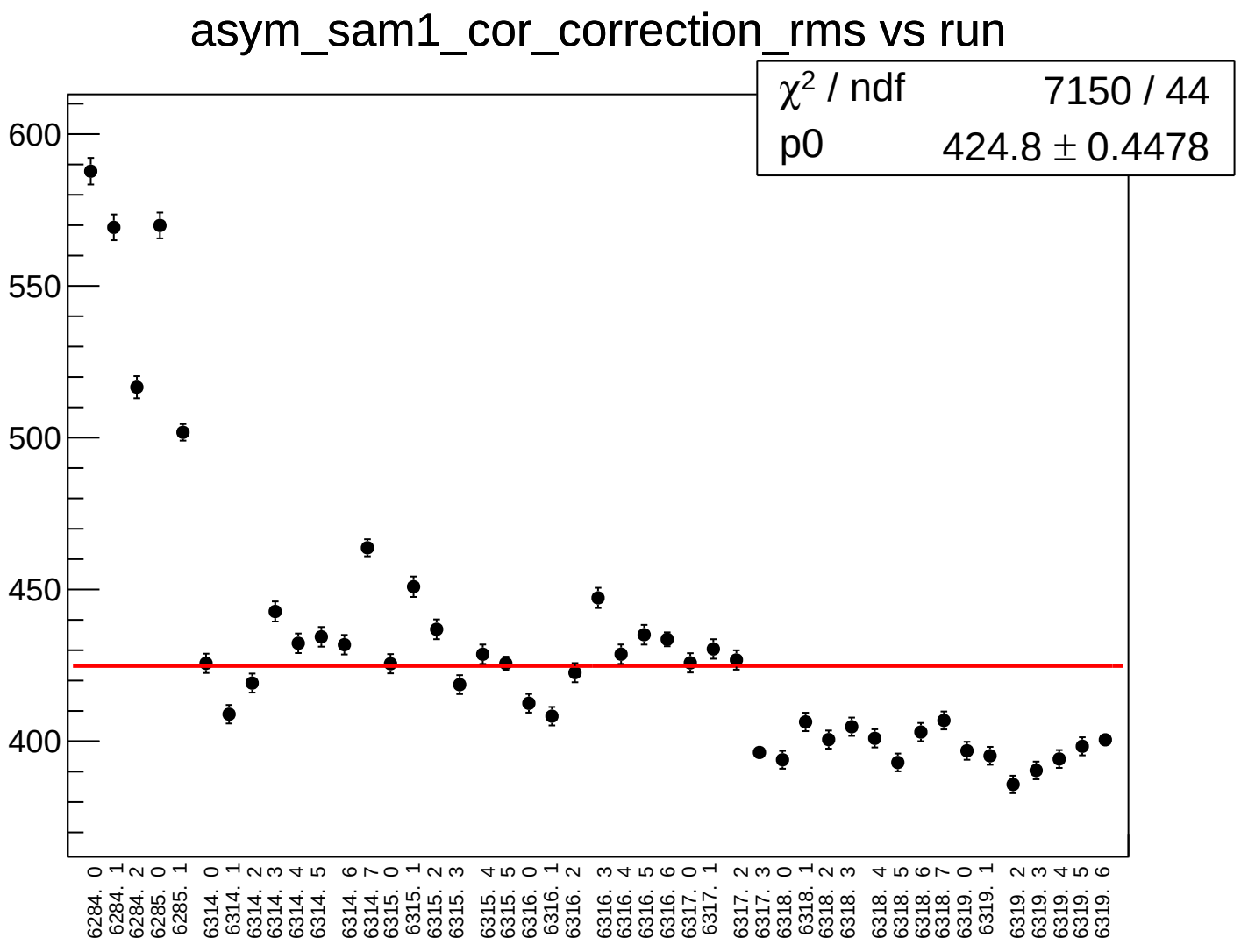
6319. 5
6319. 6


asym_sam1_cor_correction_mean vs run
χ² / ndf 48.7 / 44
p0 687.6 ± 633.2
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 106.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01203
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 7150 / 44
p0 424.8 ± 0.4478
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
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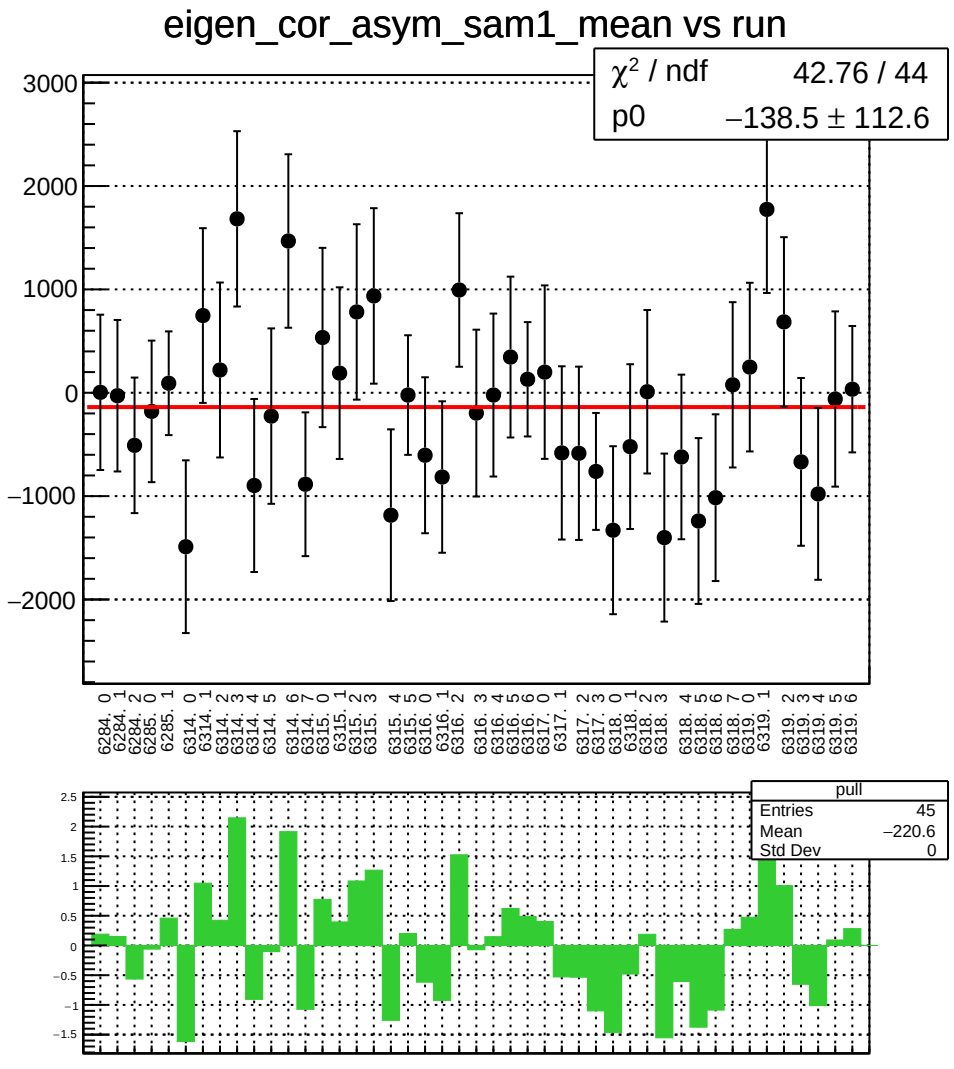
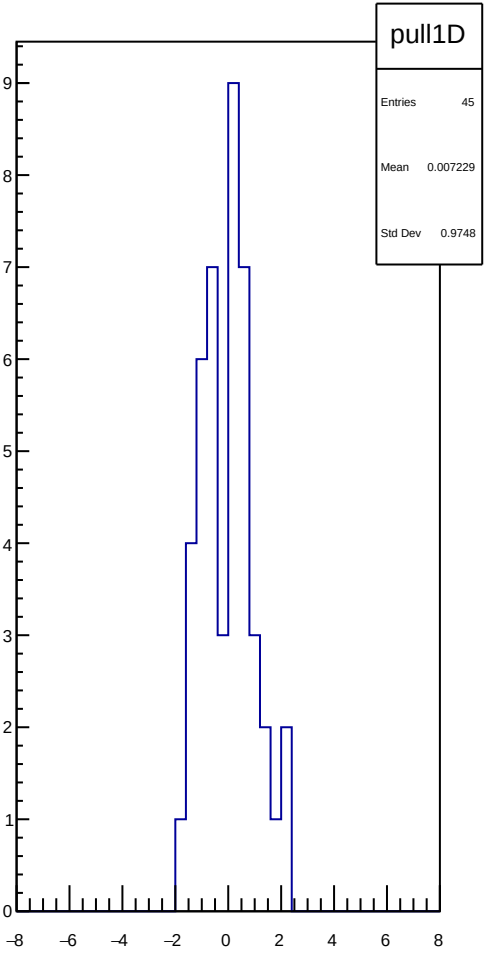
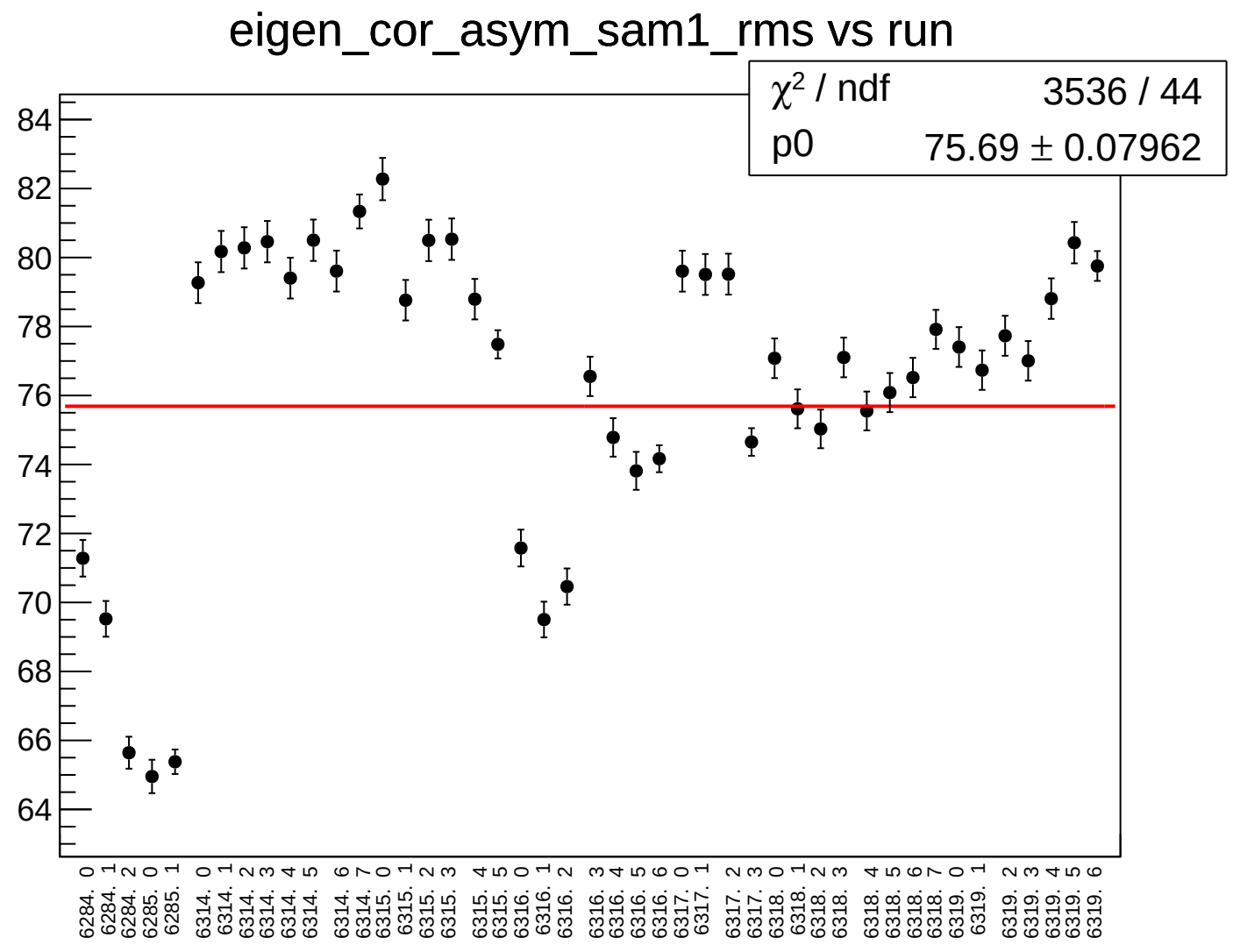
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam1_mean vs run
χ² / ndf 42.76 / 44
p0 −138.5 ± 112.6
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

pull
Entries 45
Mean −220.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.007229
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam1_rms vs run
χ² / ndf 3536 / 44
p0 75.69 ± 0.07962
84
82
80
78
76
74
72
70
68
66
64
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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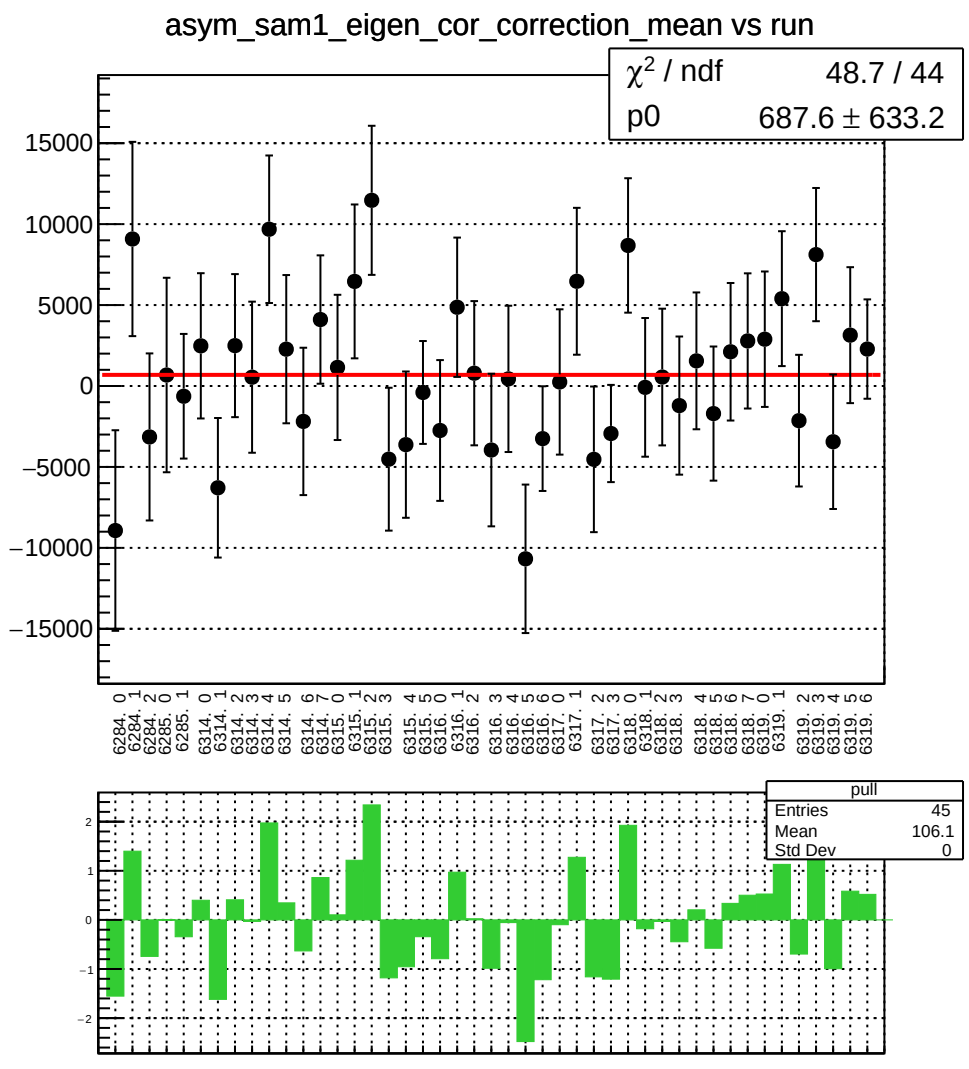
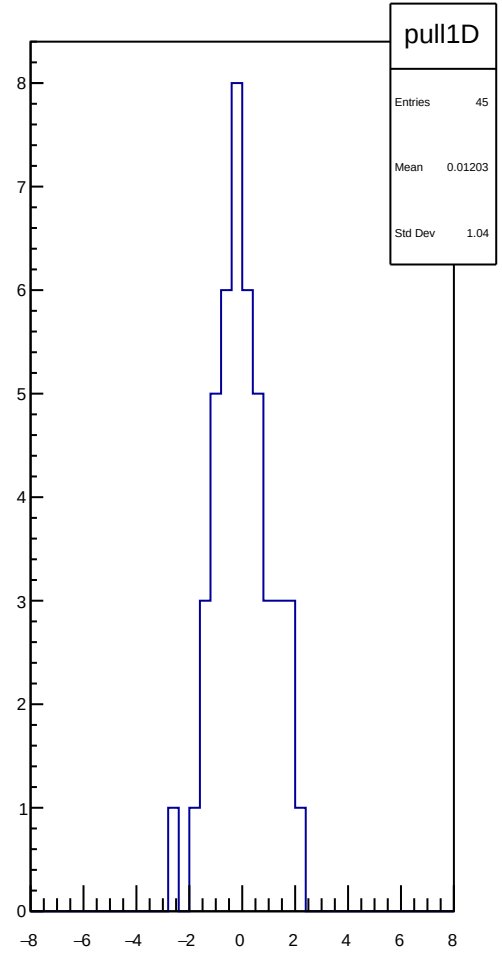
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 48.7 / 44
p0 687.6 ± 633.2
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 106.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01203
Std Dev 1.04
8
7
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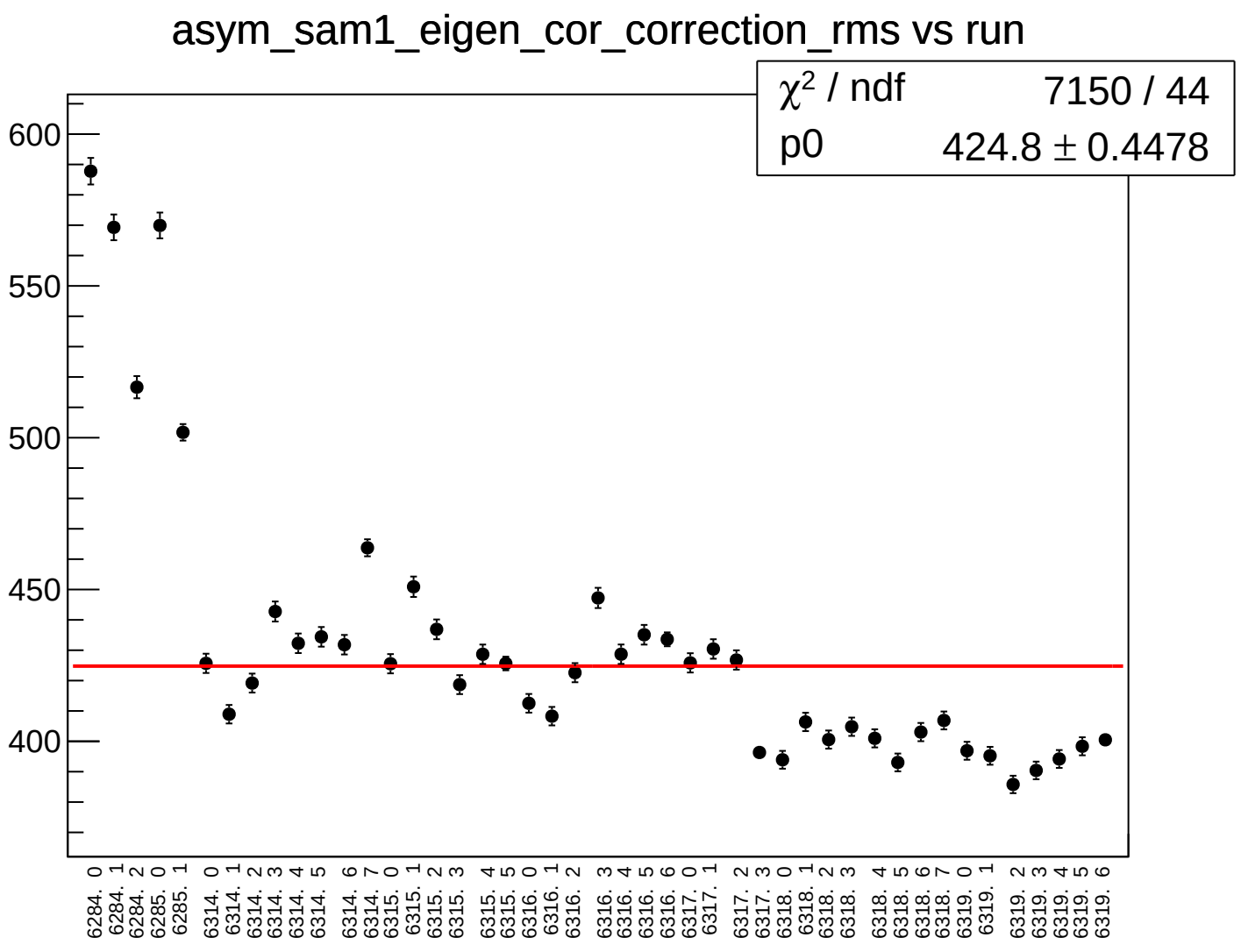
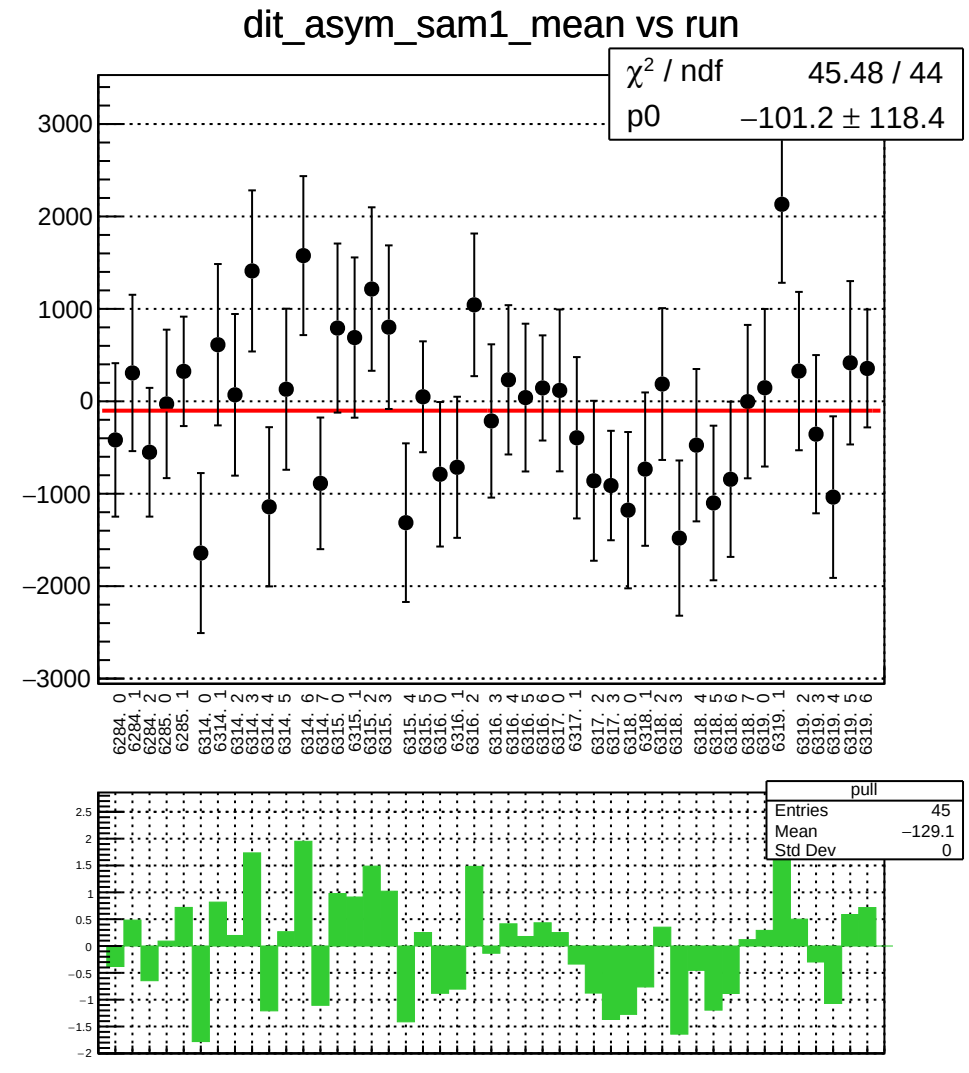
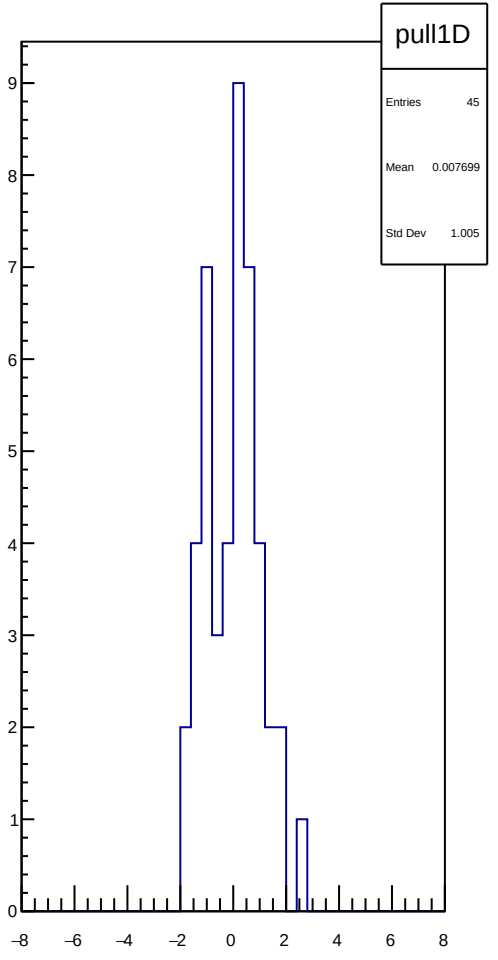
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 7150 / 44
p0 424.8 ± 0.4478
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam1_mean vs run
χ² / ndf 45.48 / 44
p0 −101.2 ± 118.4
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −129.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007699
Std Dev 1.005
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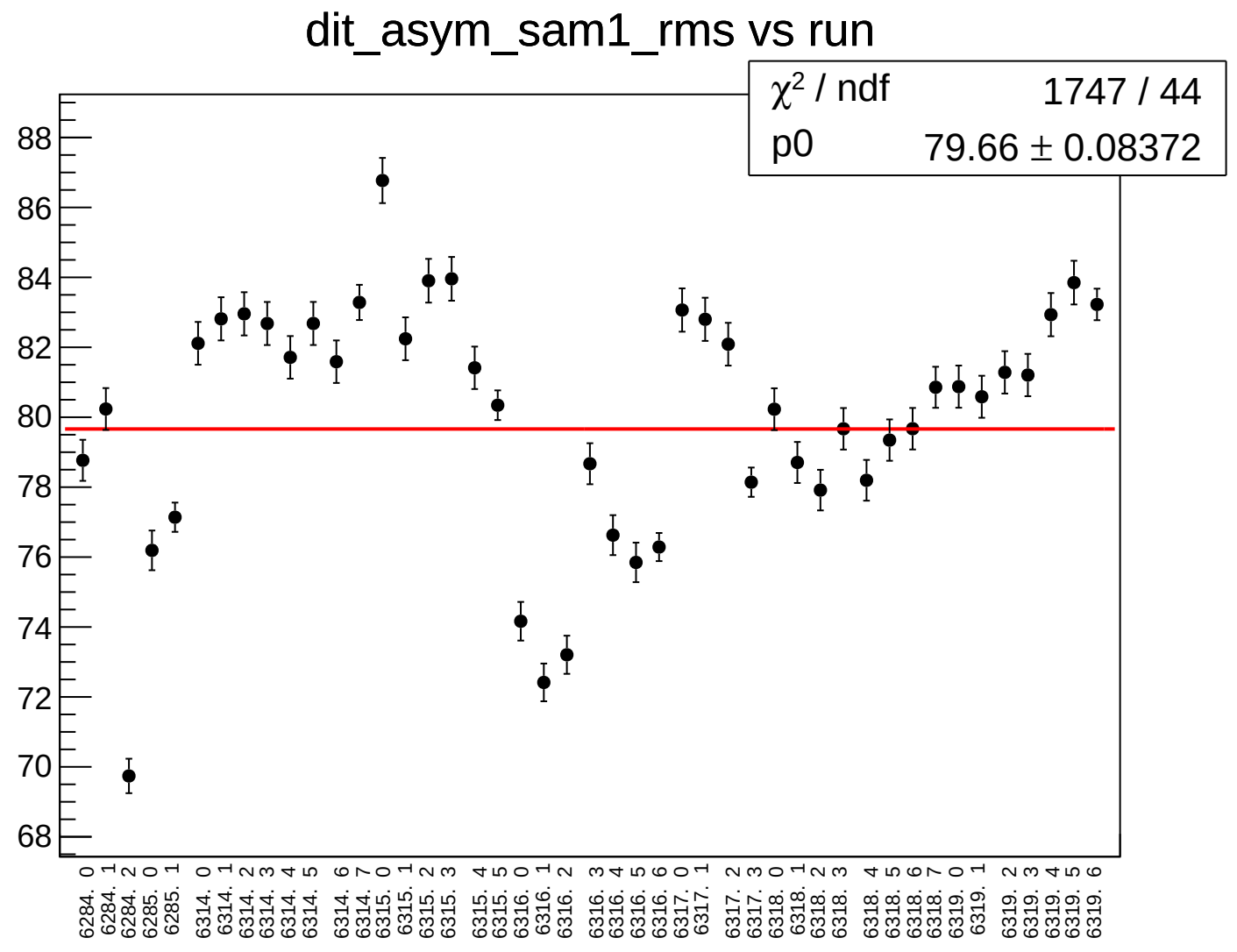
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam1_rms vs run
χ² / ndf 1747 / 44
p0 79.66 ± 0.08372
88
86
84
82
80
78
76
74
72
70
68
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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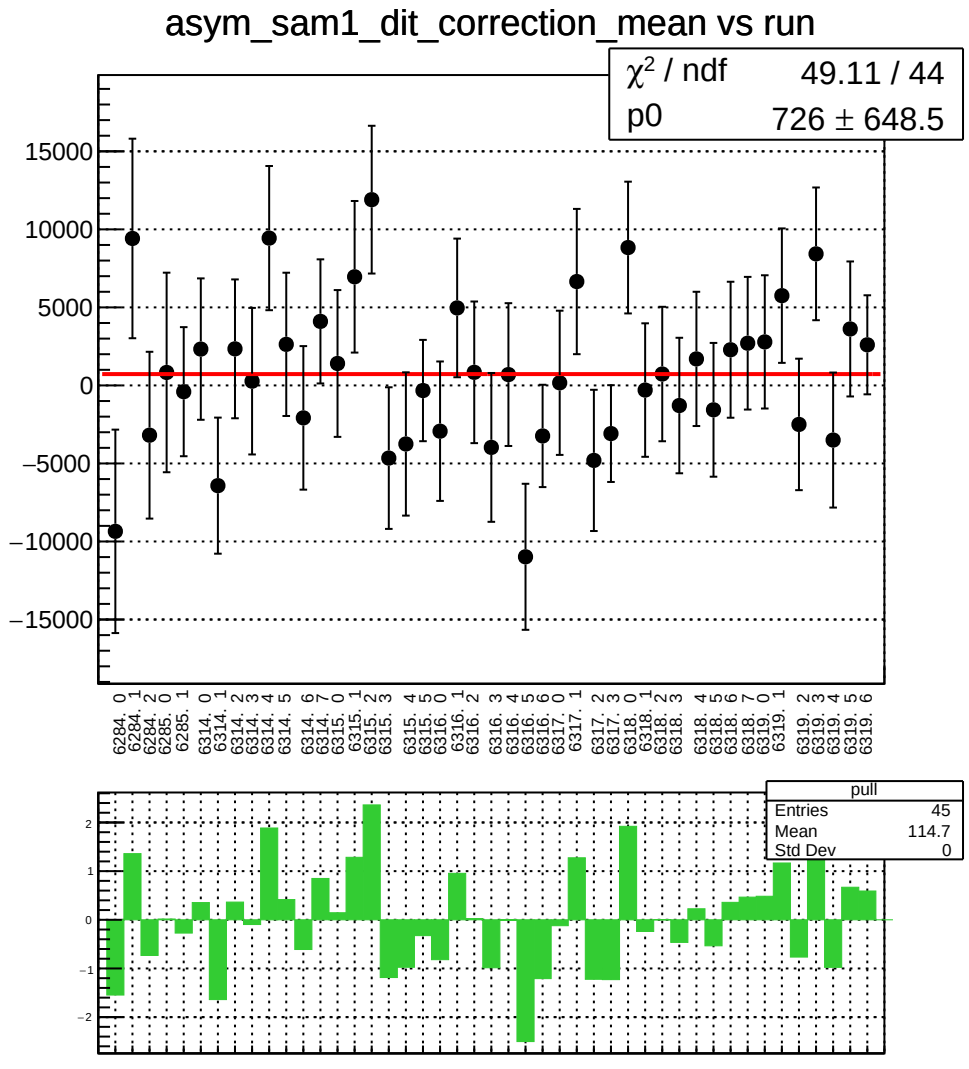
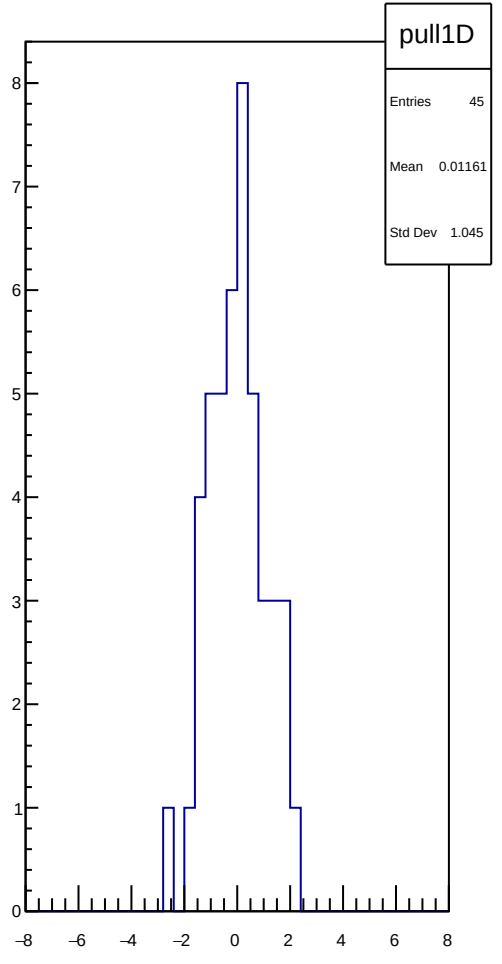
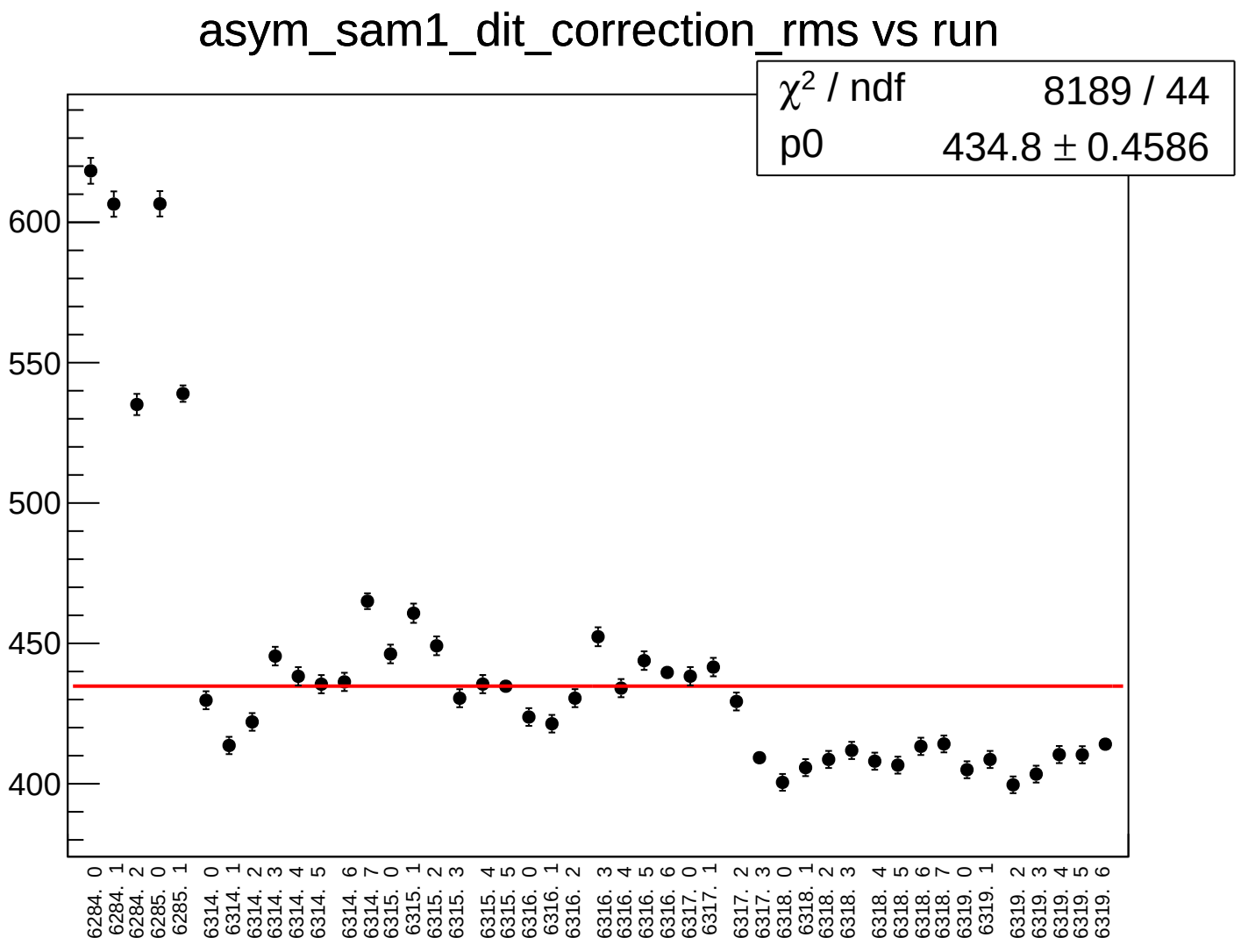
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_dit_correction_mean vs run
χ² / ndf 49.11 / 44
p0 726 ± 648.5
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 114.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01161
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_dit_correction_rms vs run
χ² / ndf 8189 / 44
p0 434.8 ± 0.4586
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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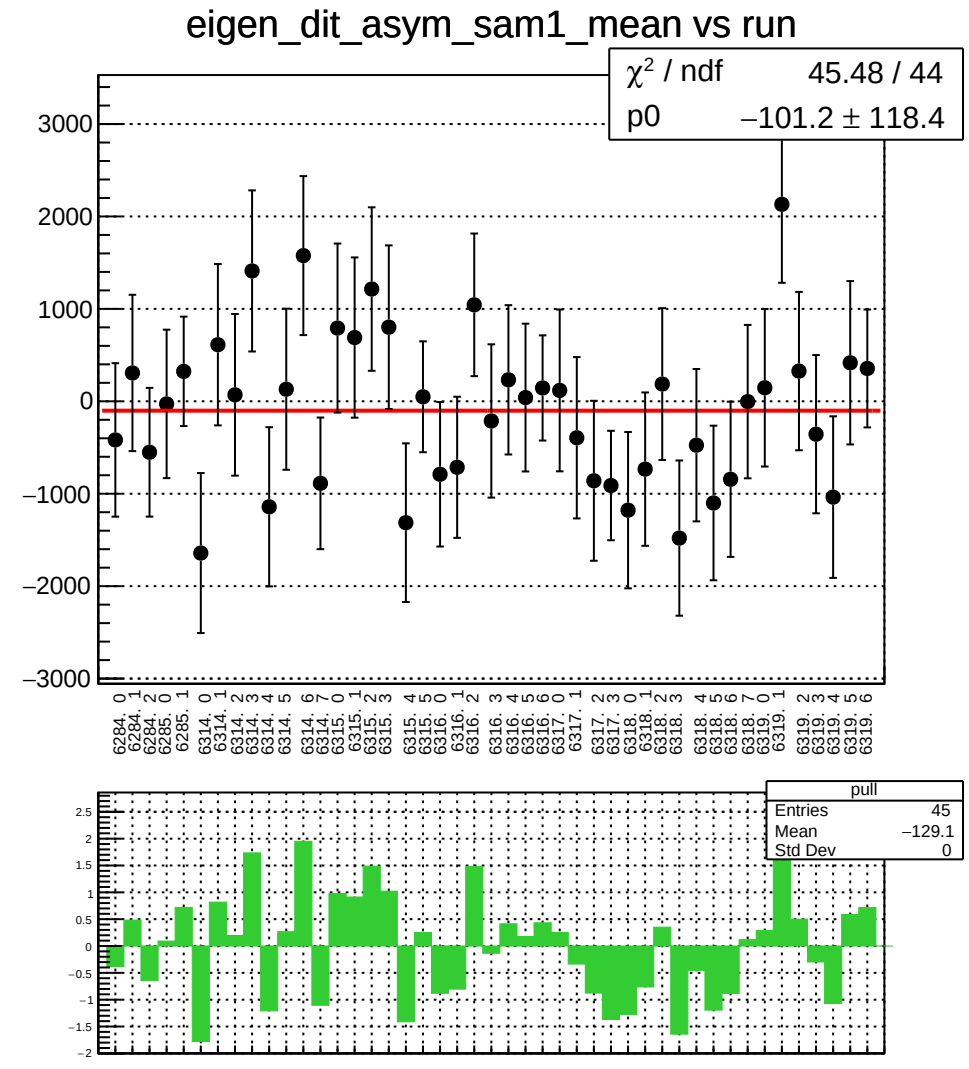
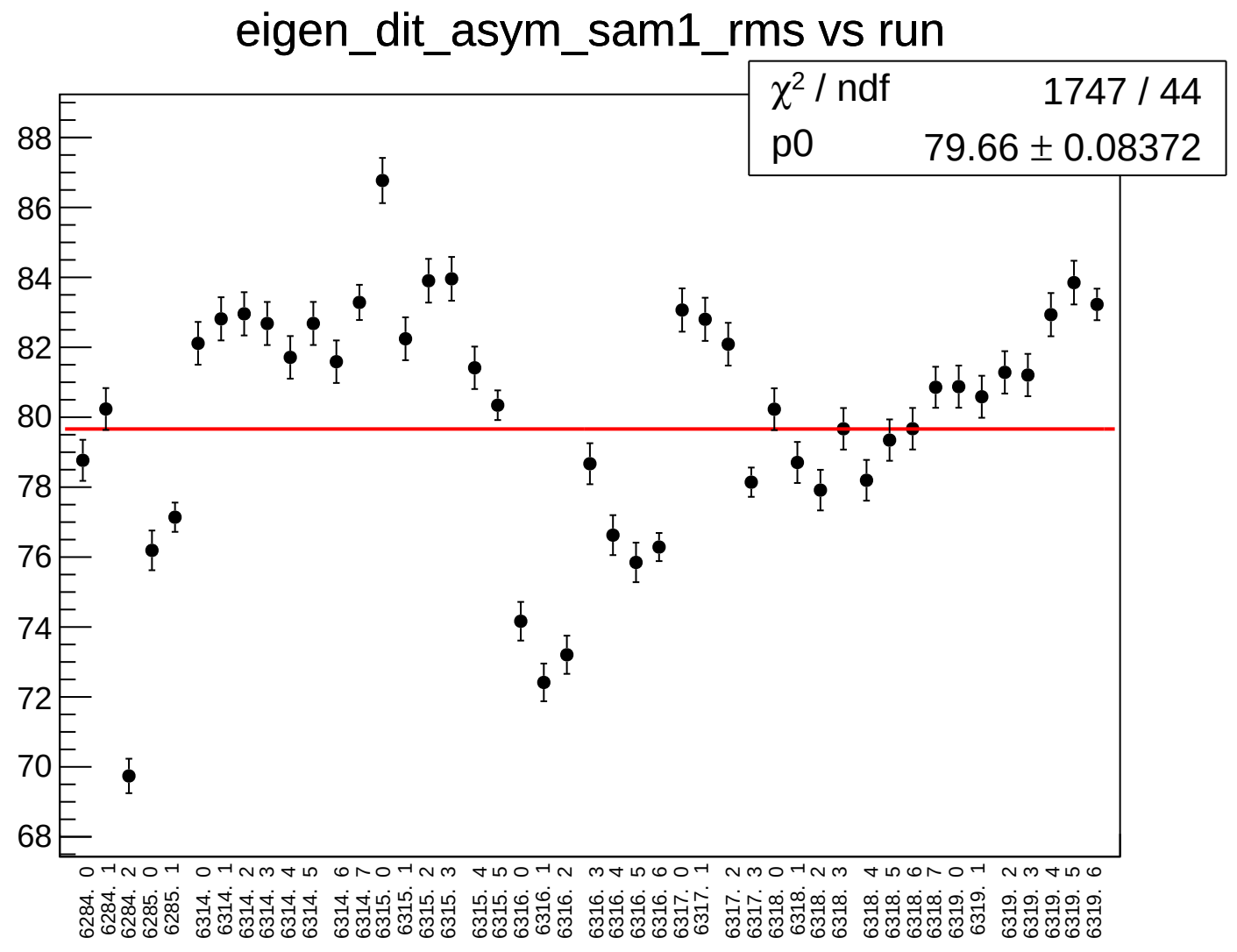
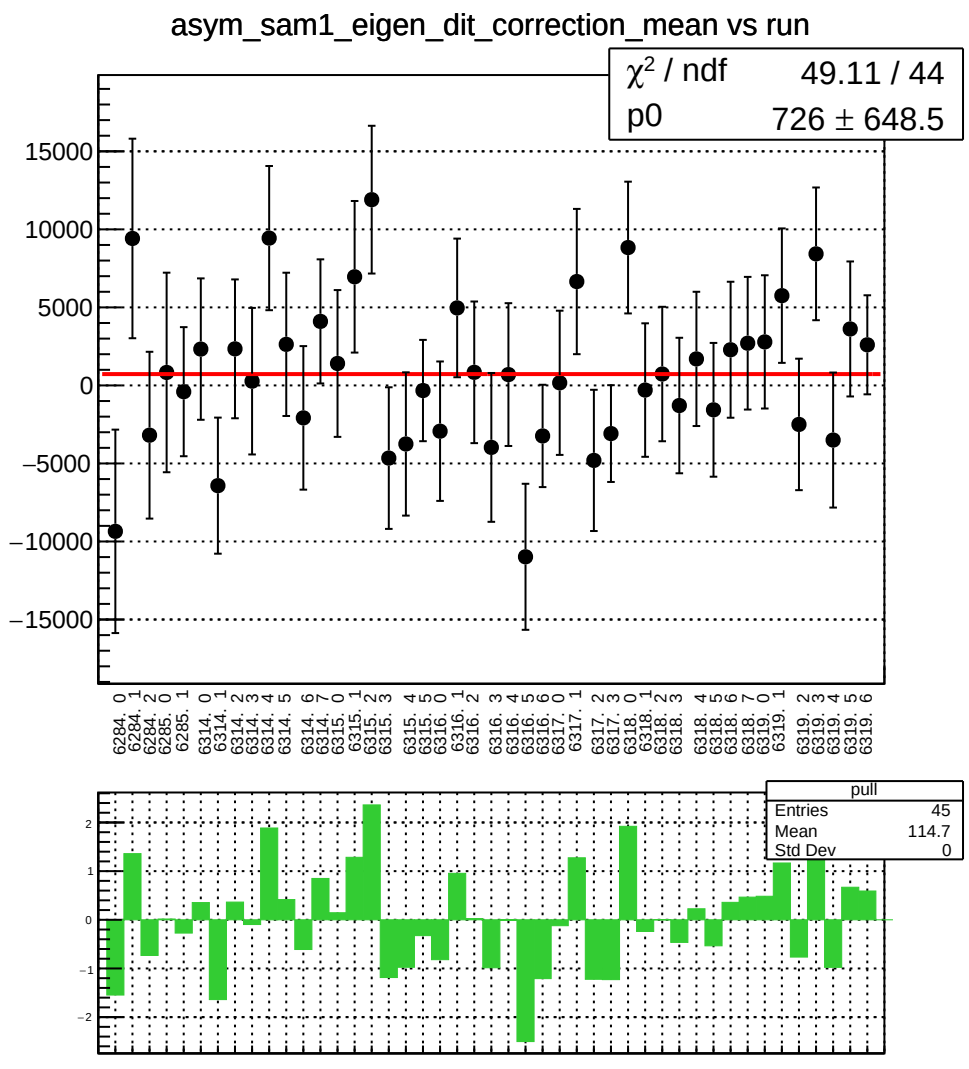
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam1_mean vs run
χ² / ndf 45.48 / 44
p0 −101.2 ± 118.4
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −129.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007698
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam1_rms vs run
χ² / ndf 1747 / 44
p0 79.66 ± 0.08372
88
86
84
82
80
78
76
74
72
70
68
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 49.11 / 44
p0 726 ± 648.5
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6318. 1
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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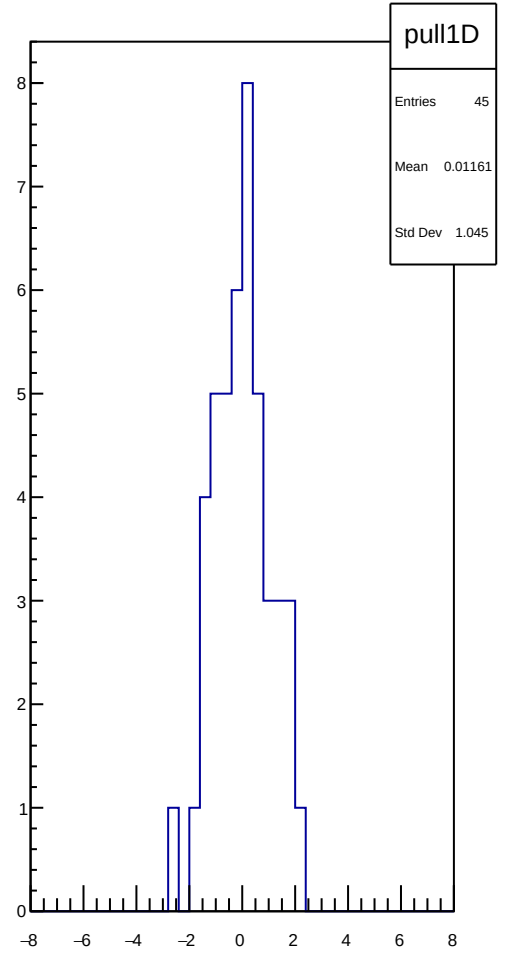
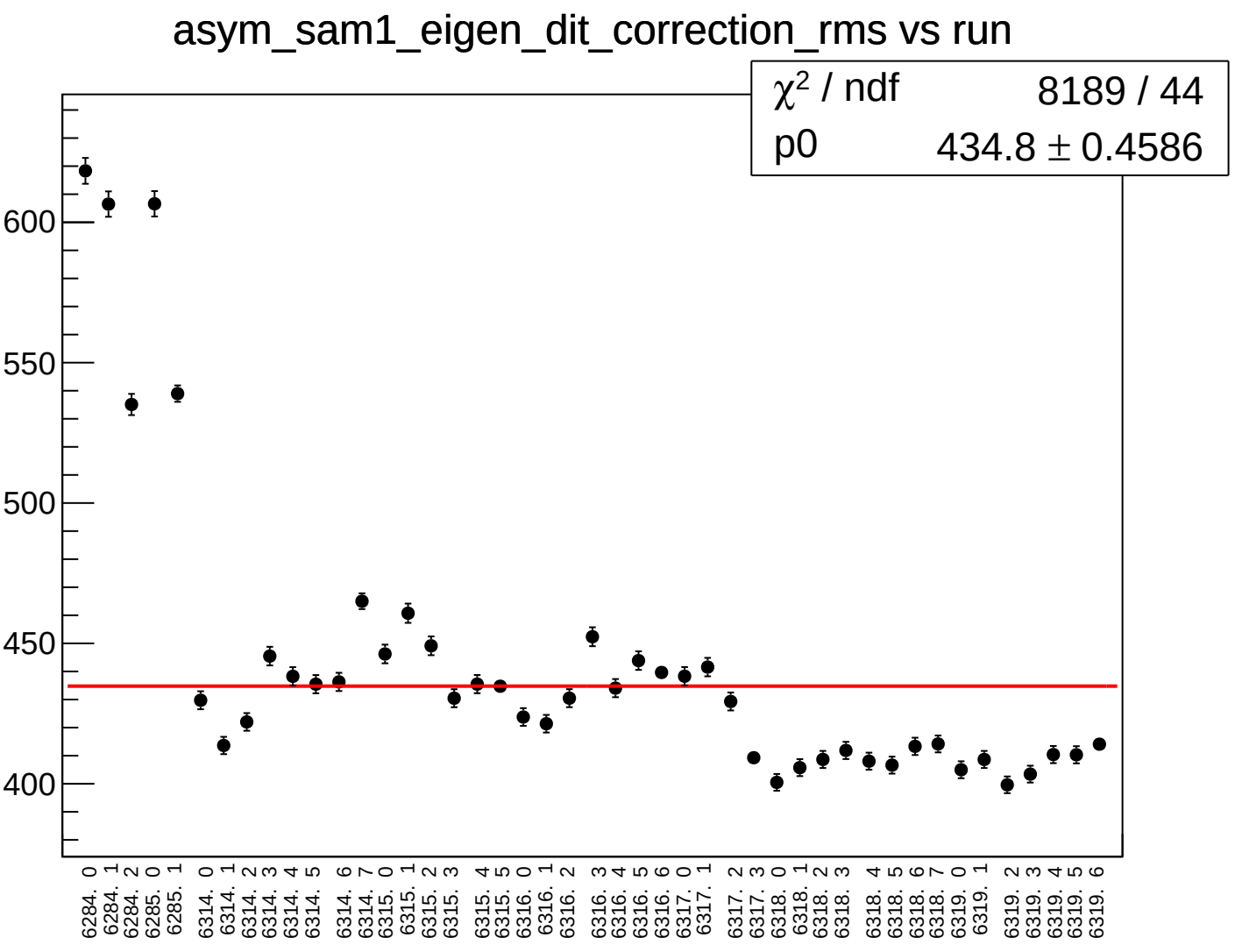
6319. 5
6319. 6
pull
Entries 45
Mean 114.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01161
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 8189 / 44
p0 434.8 ± 0.4586
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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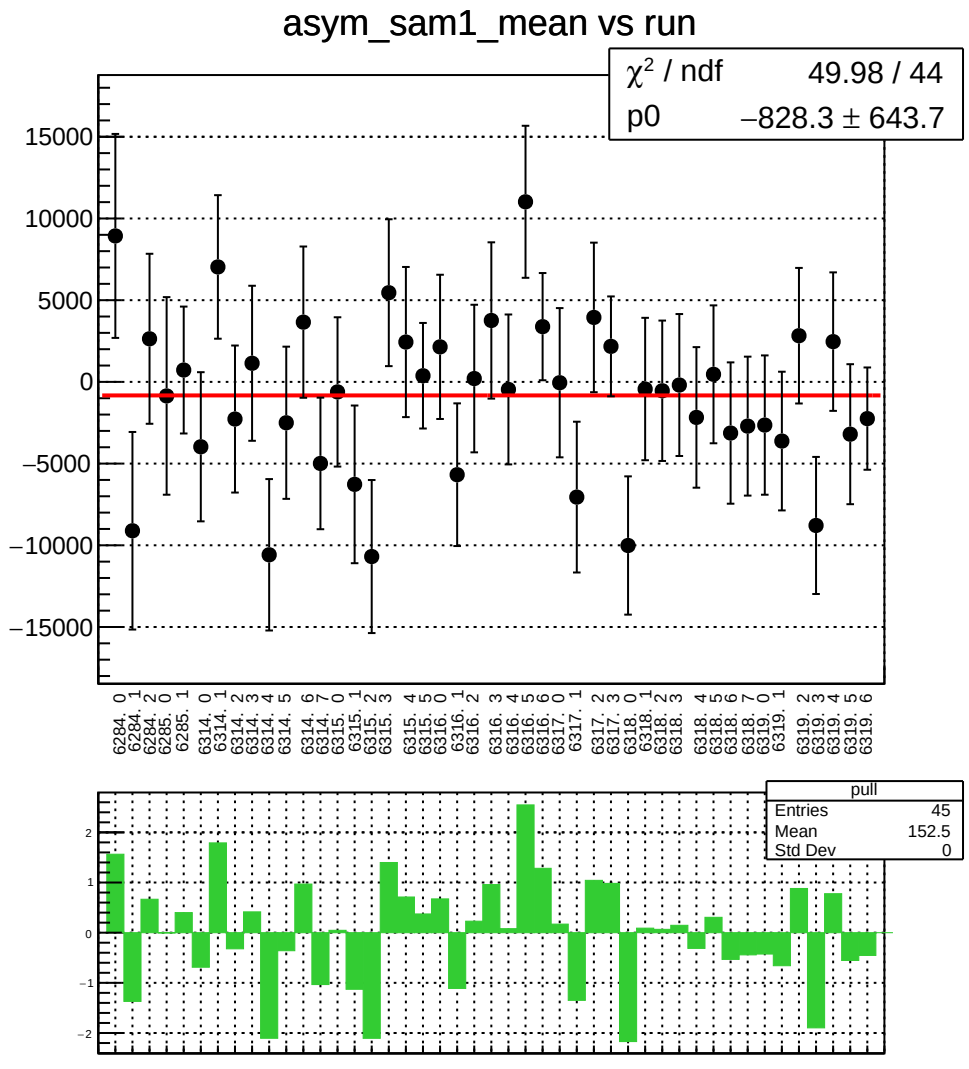
6319. 5
6319. 6


asym_sam1_mean vs run
χ² / ndf 49.98 / 44
p0 −828.3 ± 643.7
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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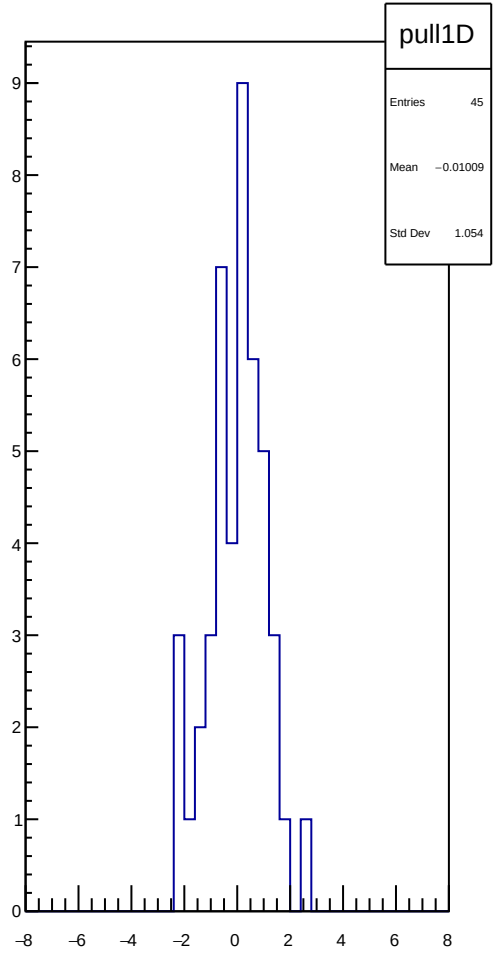
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 152.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01009
Std Dev 1.054
9
8
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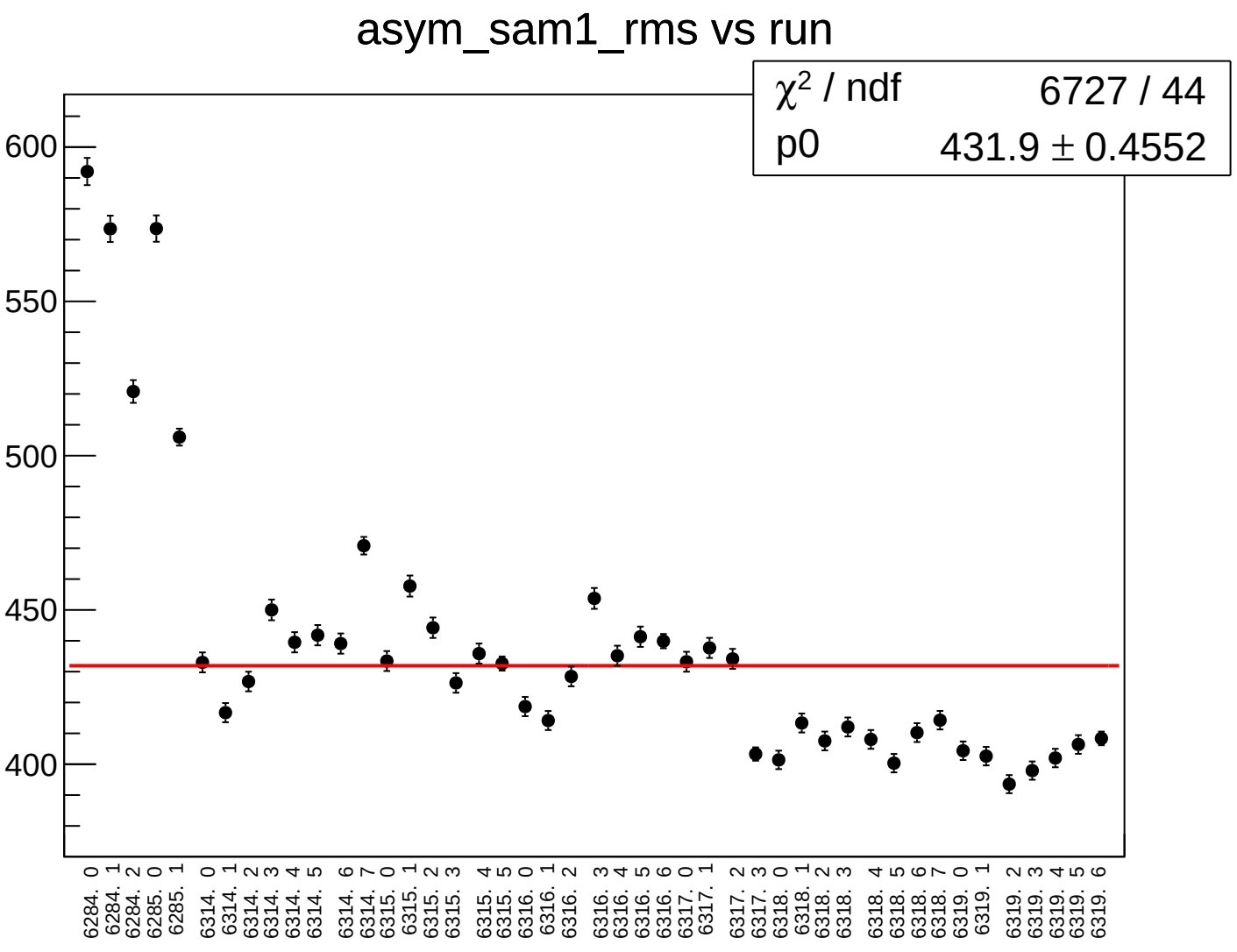
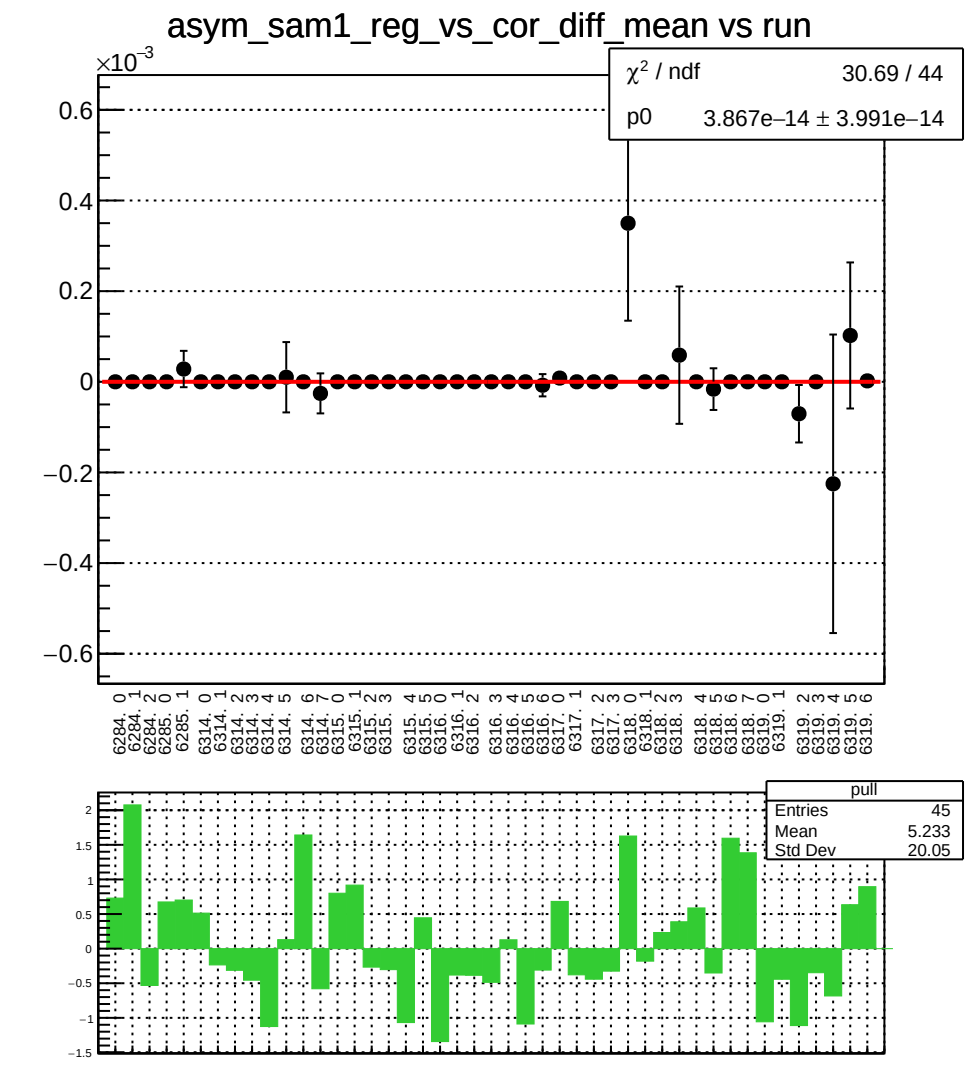
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_rms vs run
χ^2 / ndf 6727 / 44
p0 431.9 ± 0.4552
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 30.69 / 44
p0 3.867e−14 ± 3.991e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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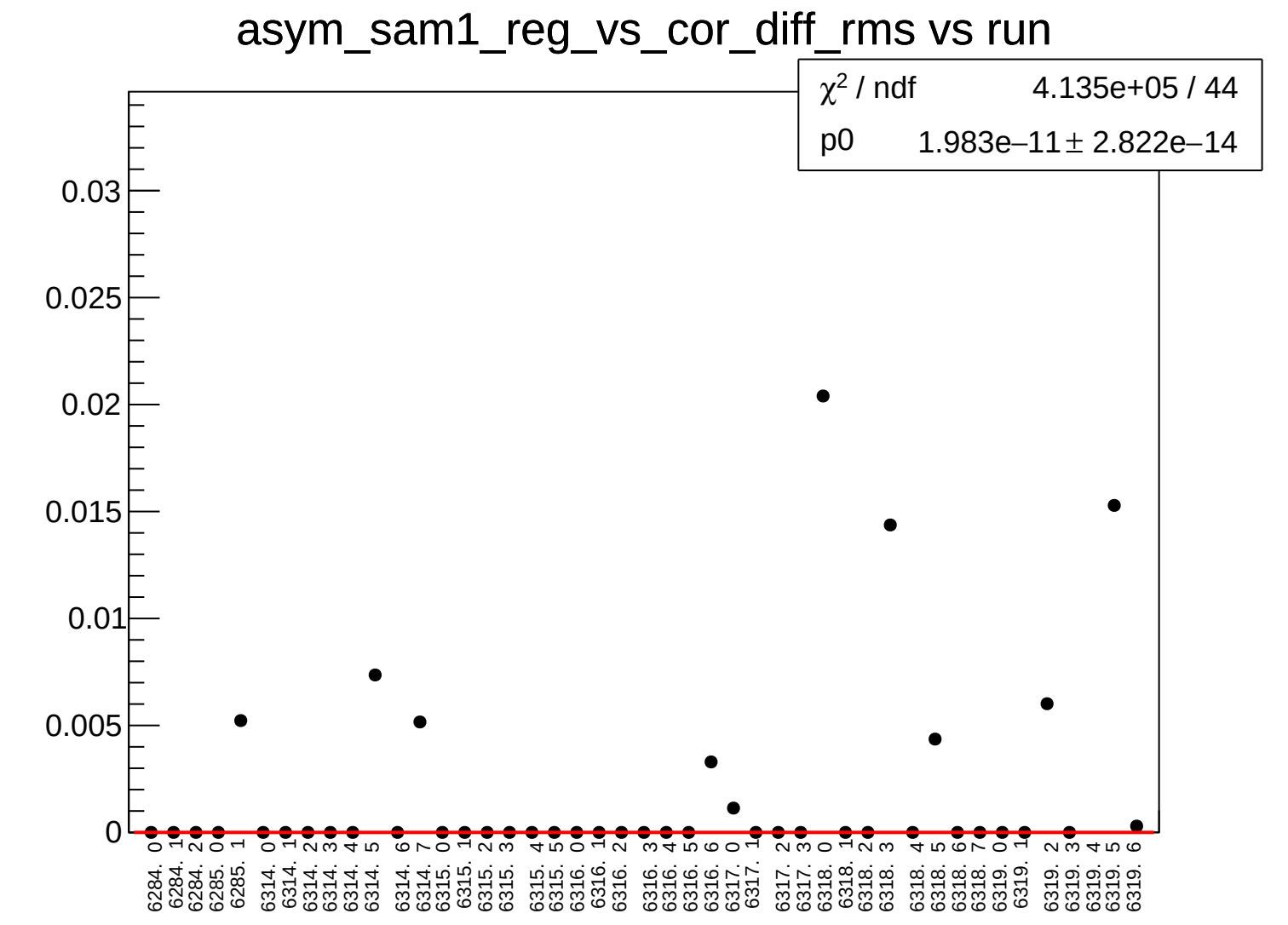
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5.233
Std Dev 20.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.05774
Std Dev 0.8238
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.135e+05 / 44
p0 1.983e−11 ± 2.822e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
6317. 2
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6318. 0
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6318. 2
6318. 3
6318. 4
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6319. 2
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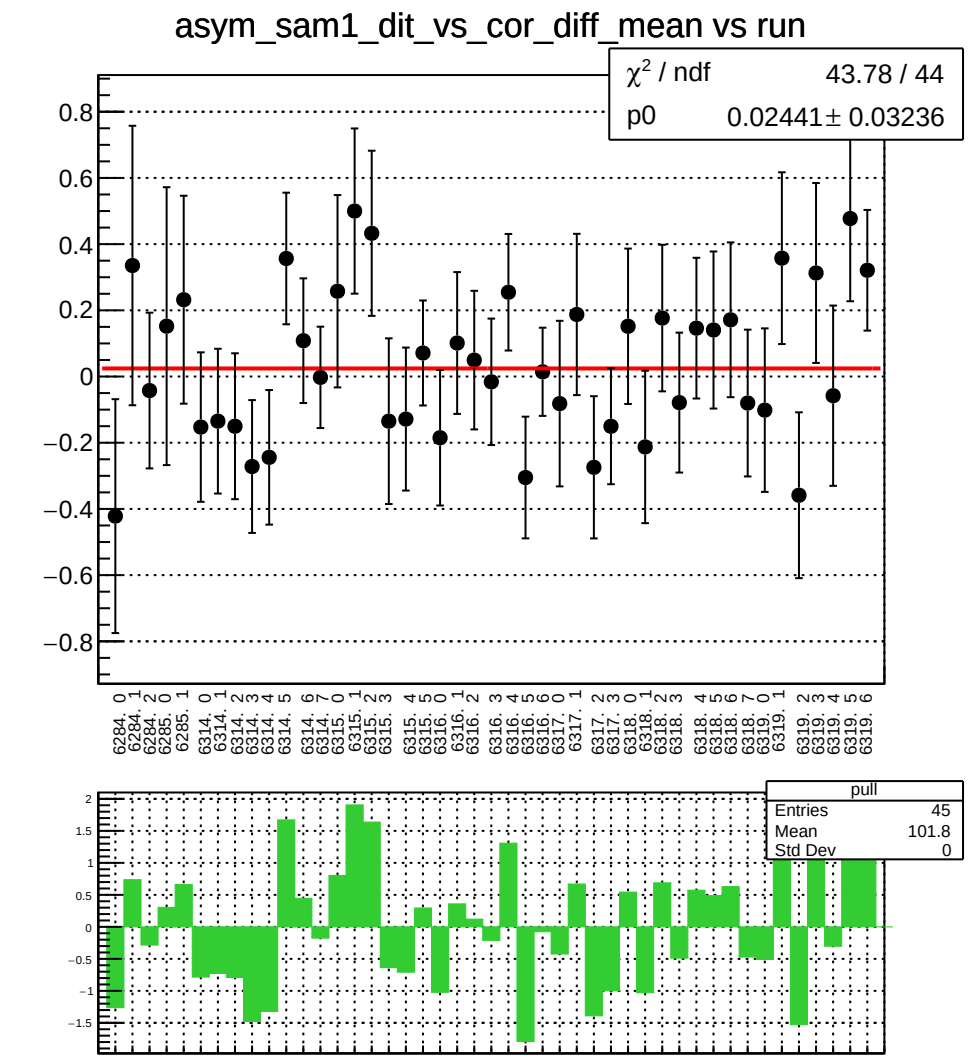
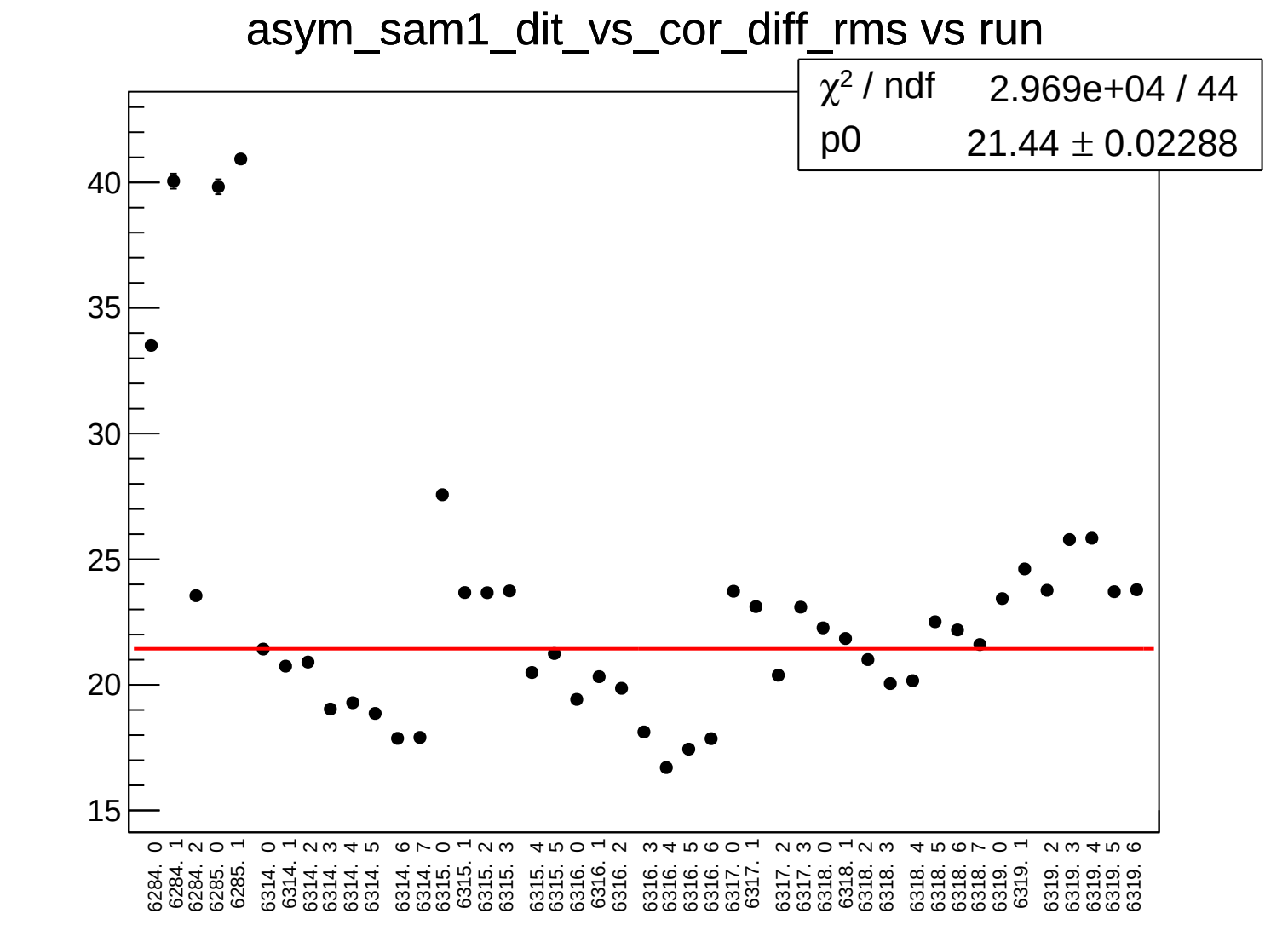
6319. 6


asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 43.78 / 44
p0 0.02441± 0.03236
pull
Entries 45
Mean 101.8
Std Dev 0
pull1D
Entries 45
Mean 0.02683
Std Dev 0.986


asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.969e+04 / 44
p0 21.44 ± 0.02288
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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6319. 2
6319. 3
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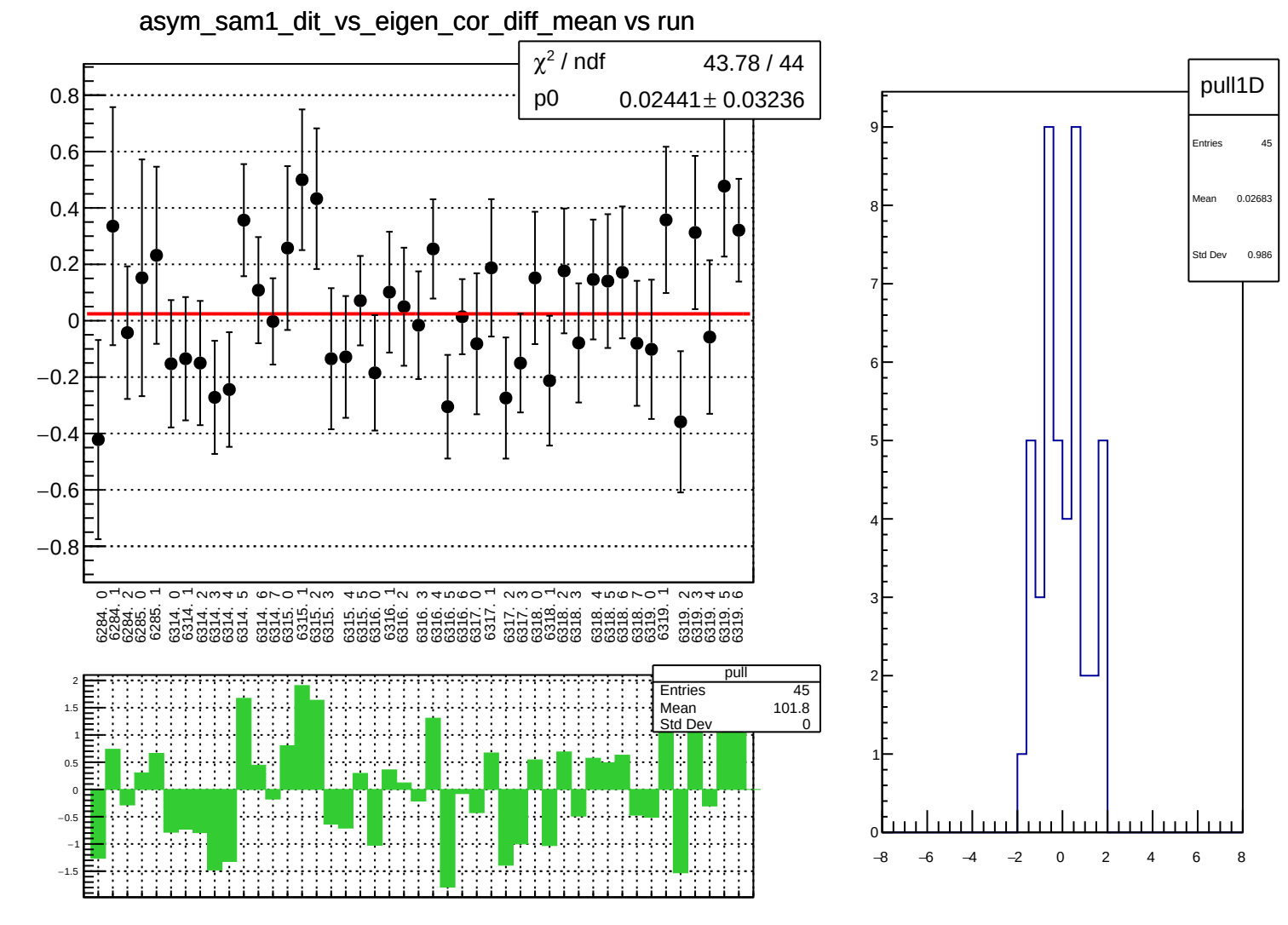
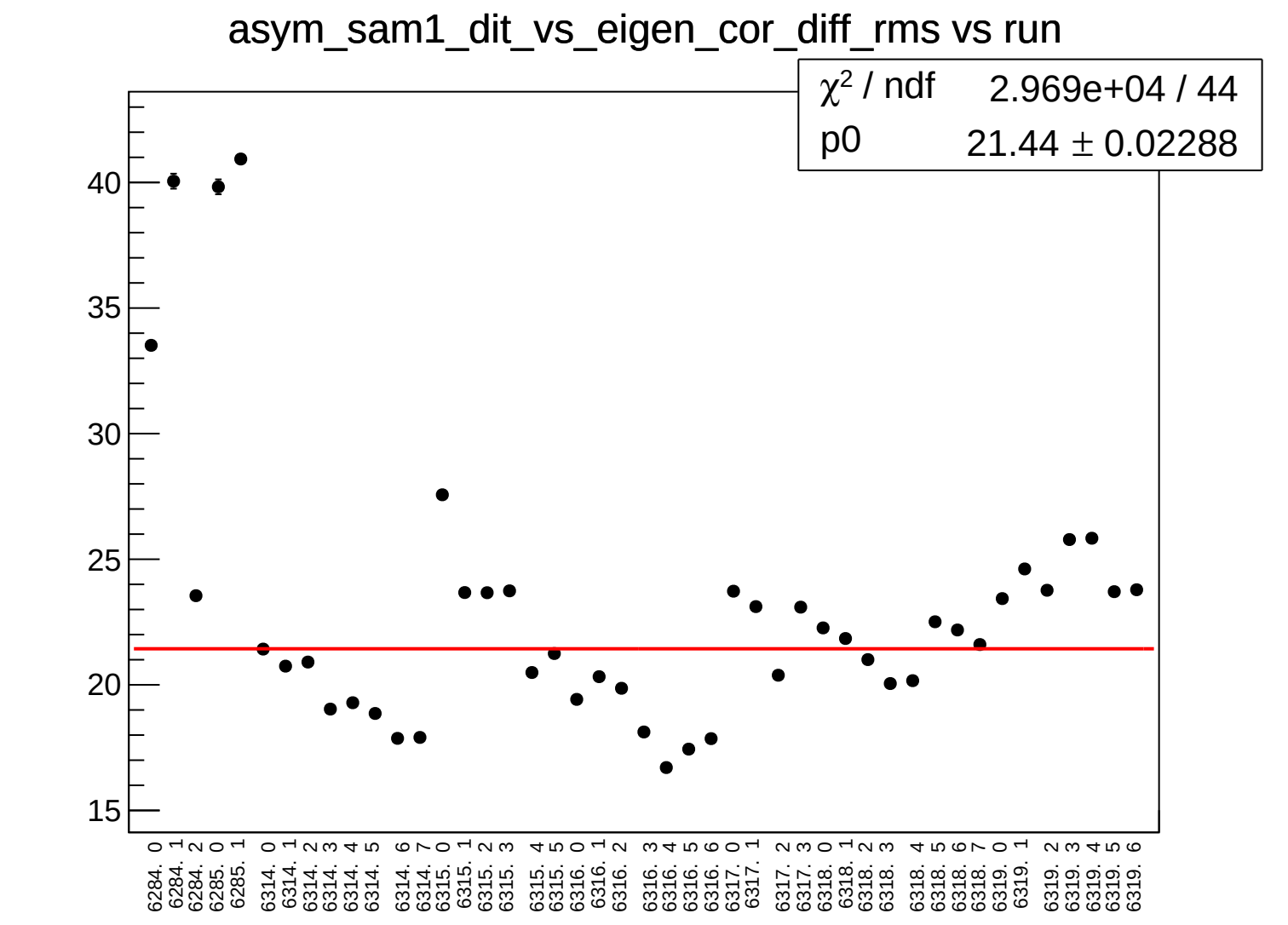
6319. 6


asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.78 / 44
p0 0.02441 ± 0.03236
pull
Entries 45
Mean 101.8
Std Dev 0
pull1D
Entries 45
Mean 0.02683
Std Dev 0.986


asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.969e+04 / 44
p0 21.44 ± 0.02288
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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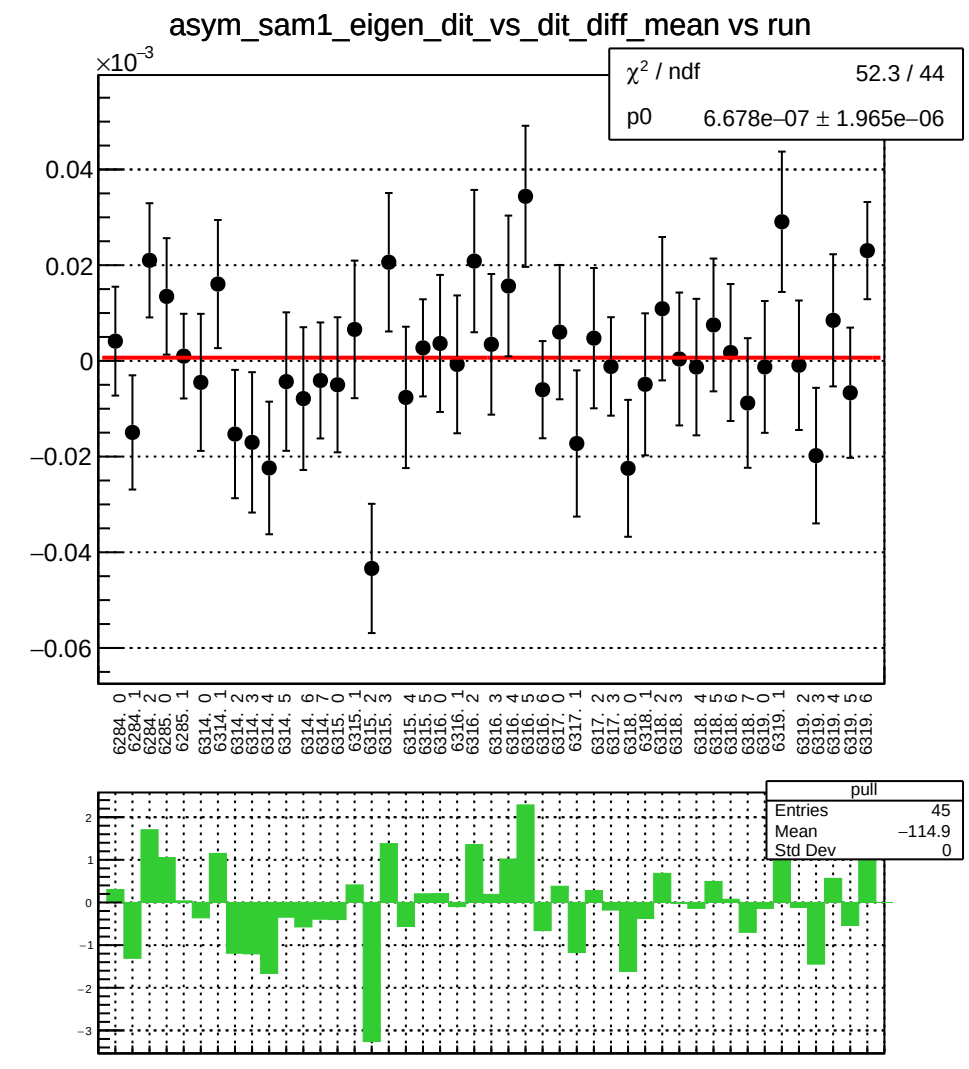
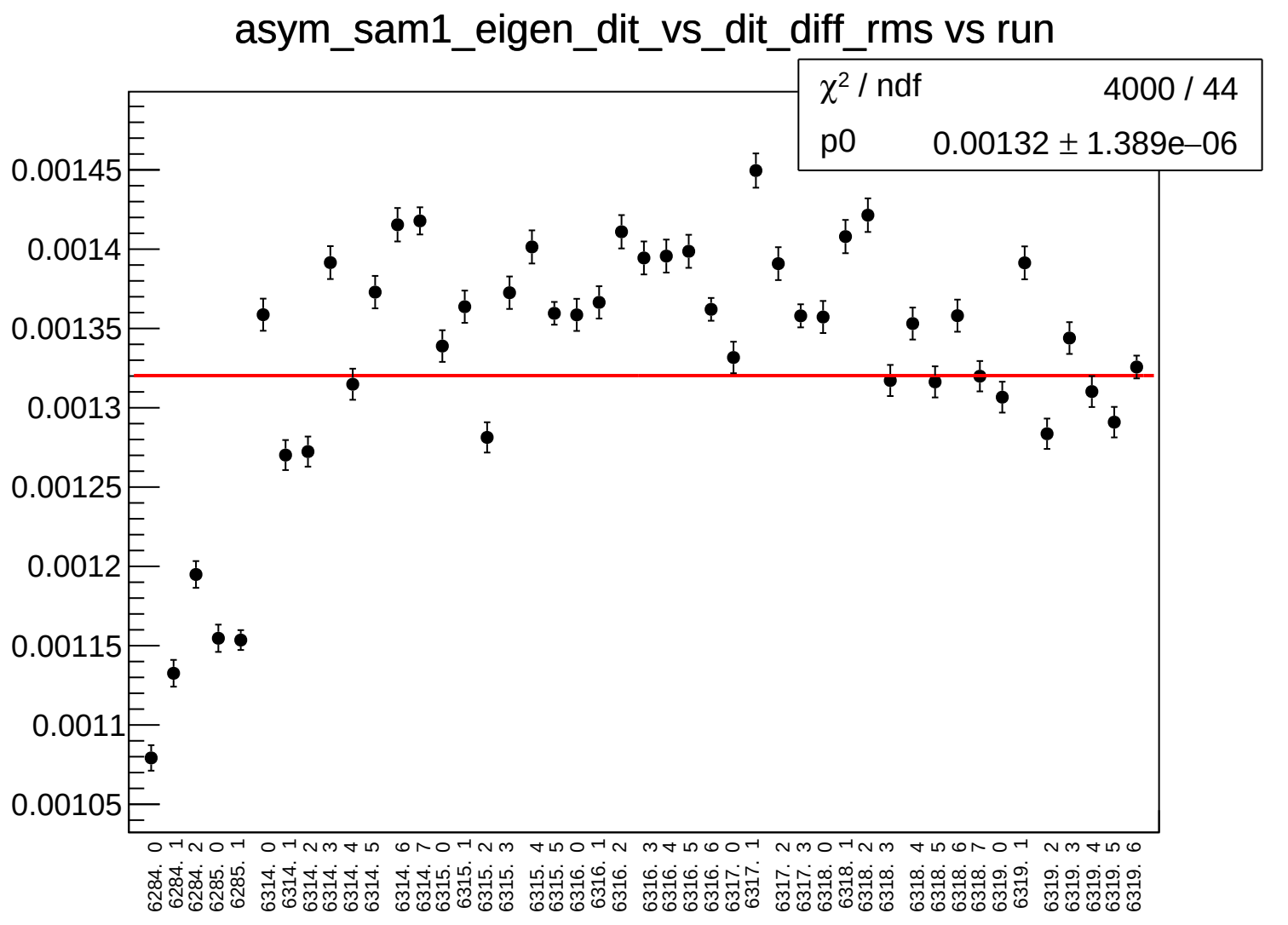
6319. 6


asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.3 / 44
p0 6.678e−07 ± 1.965e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −114.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01205
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4000 / 44
p0 0.00132 ± 1.389e–06
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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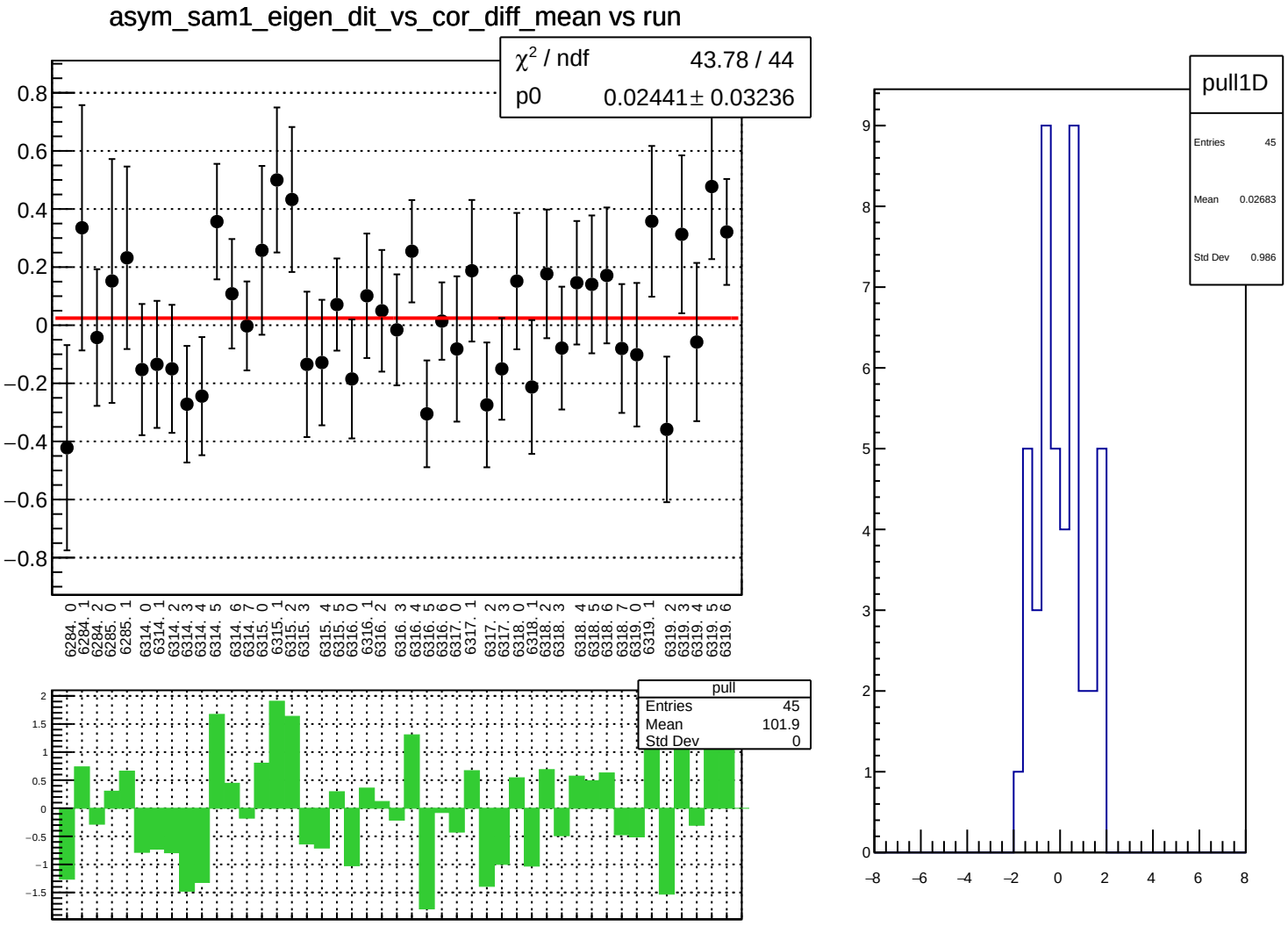
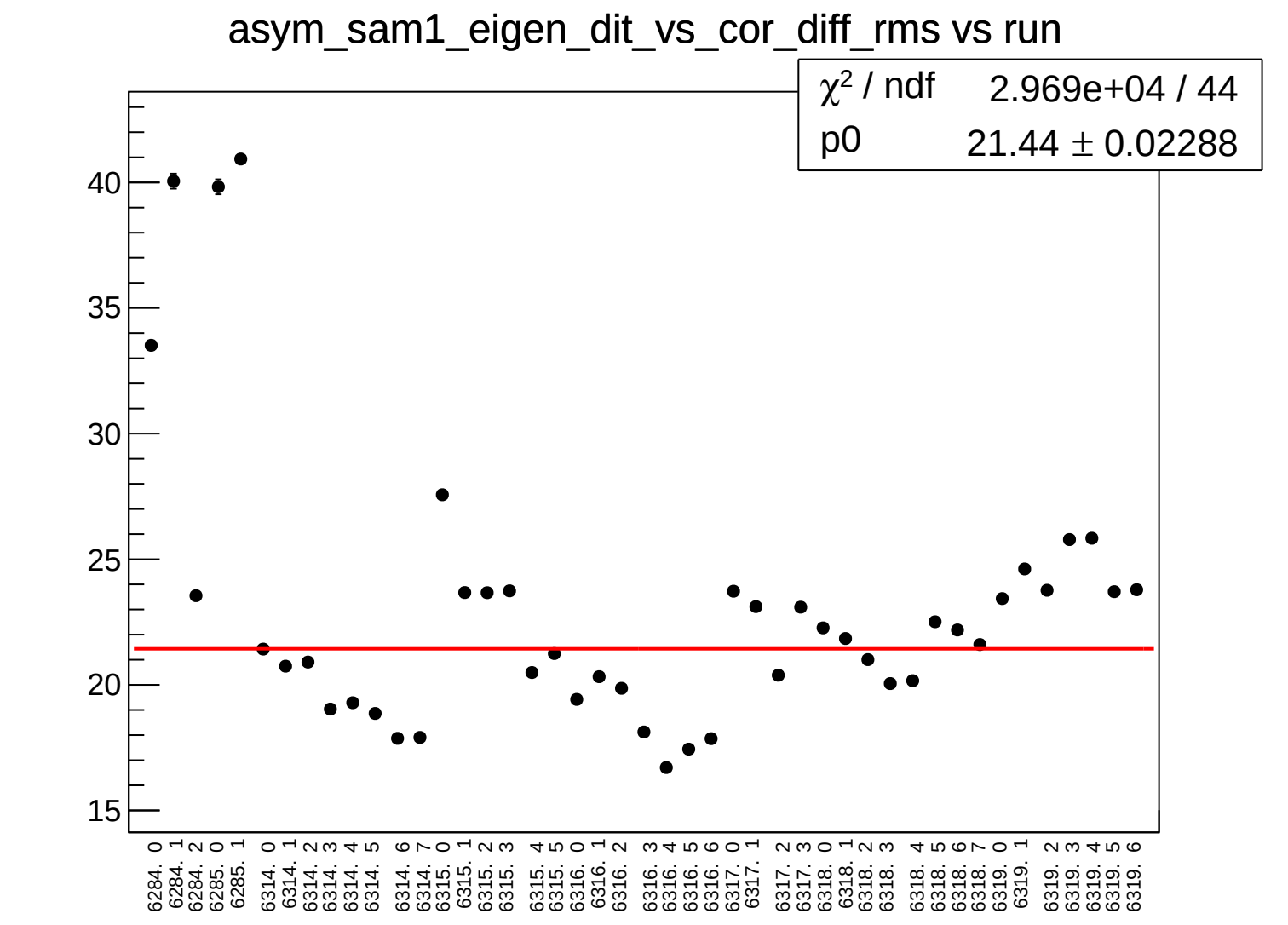
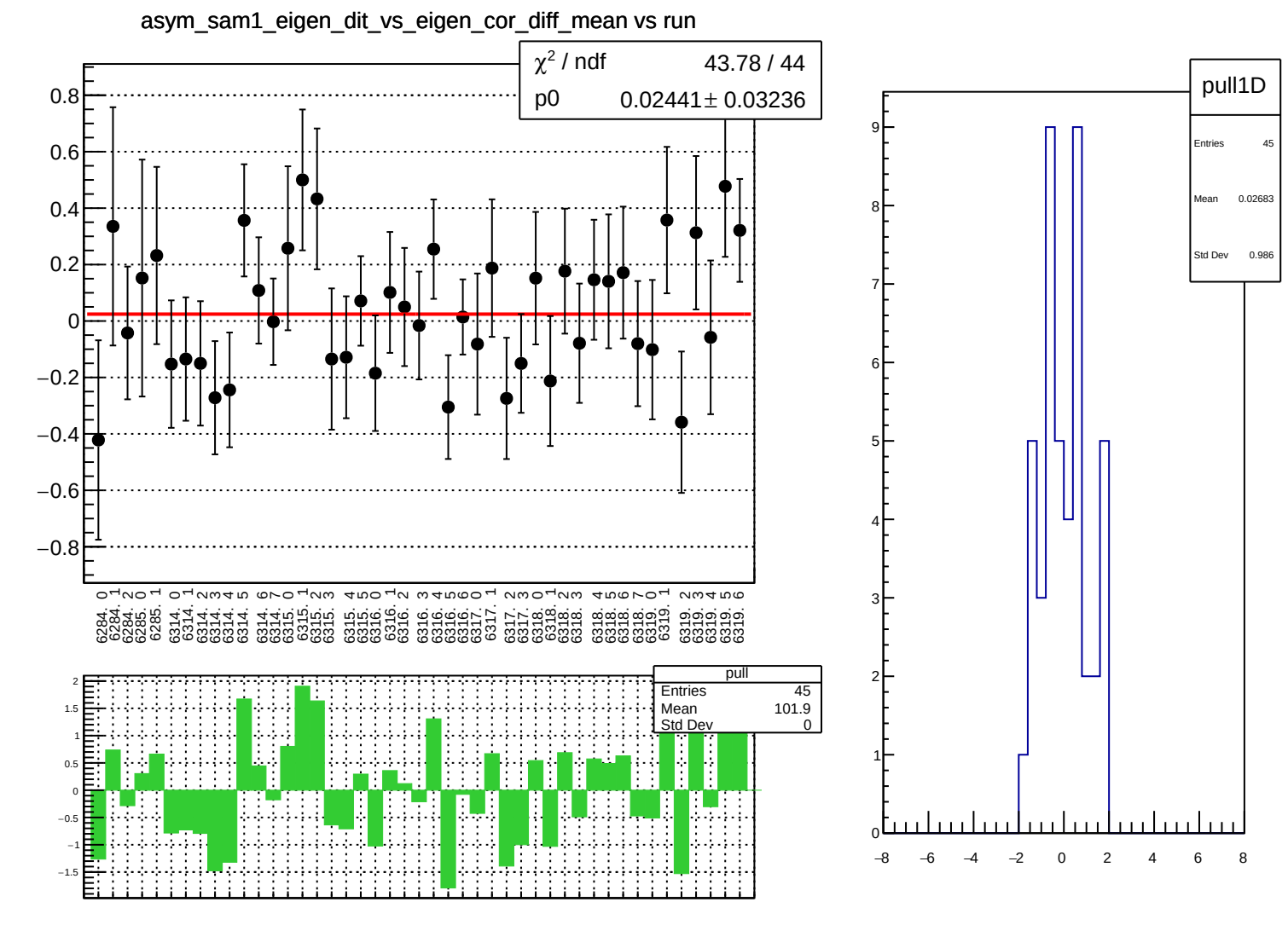
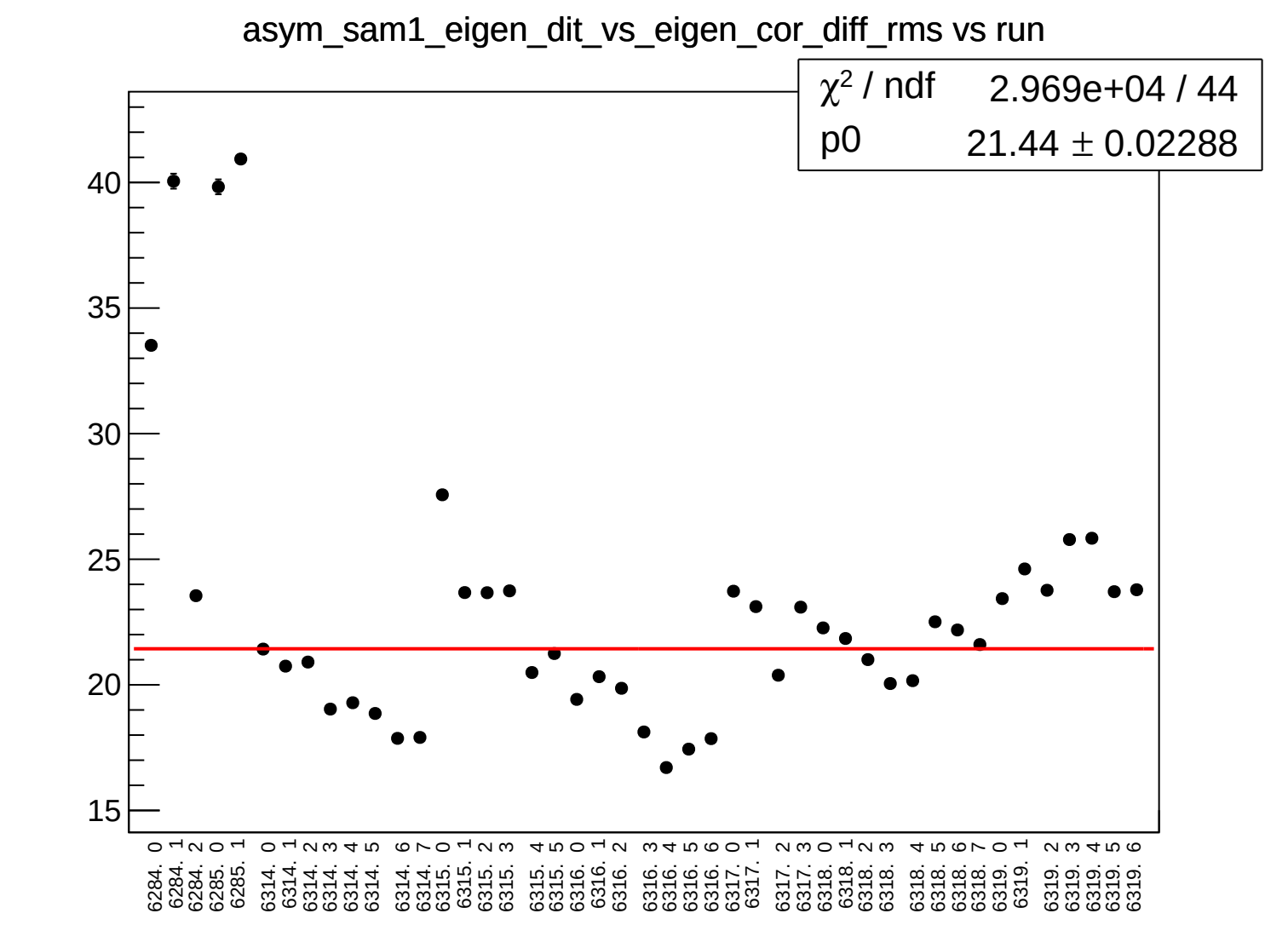
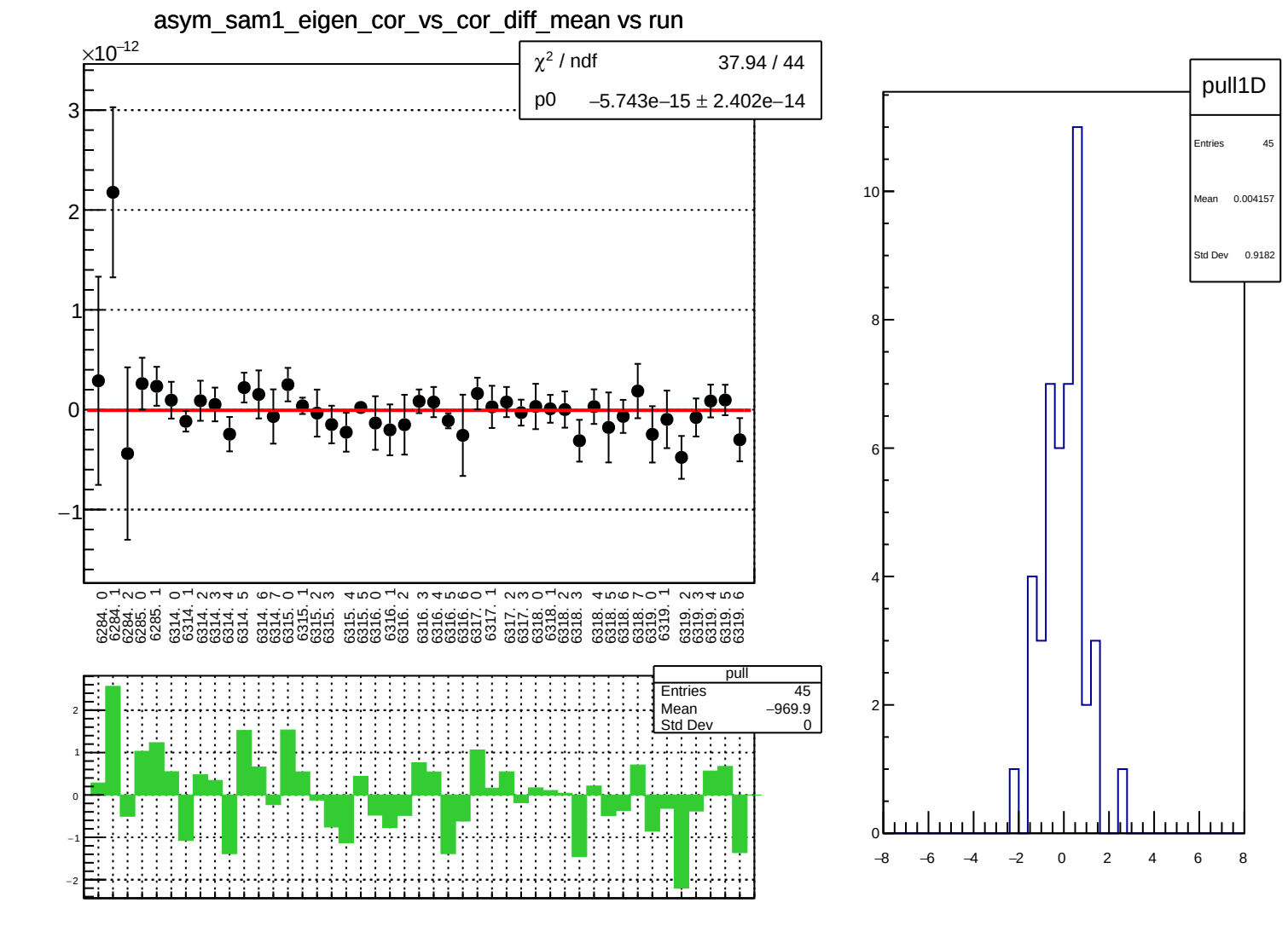
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

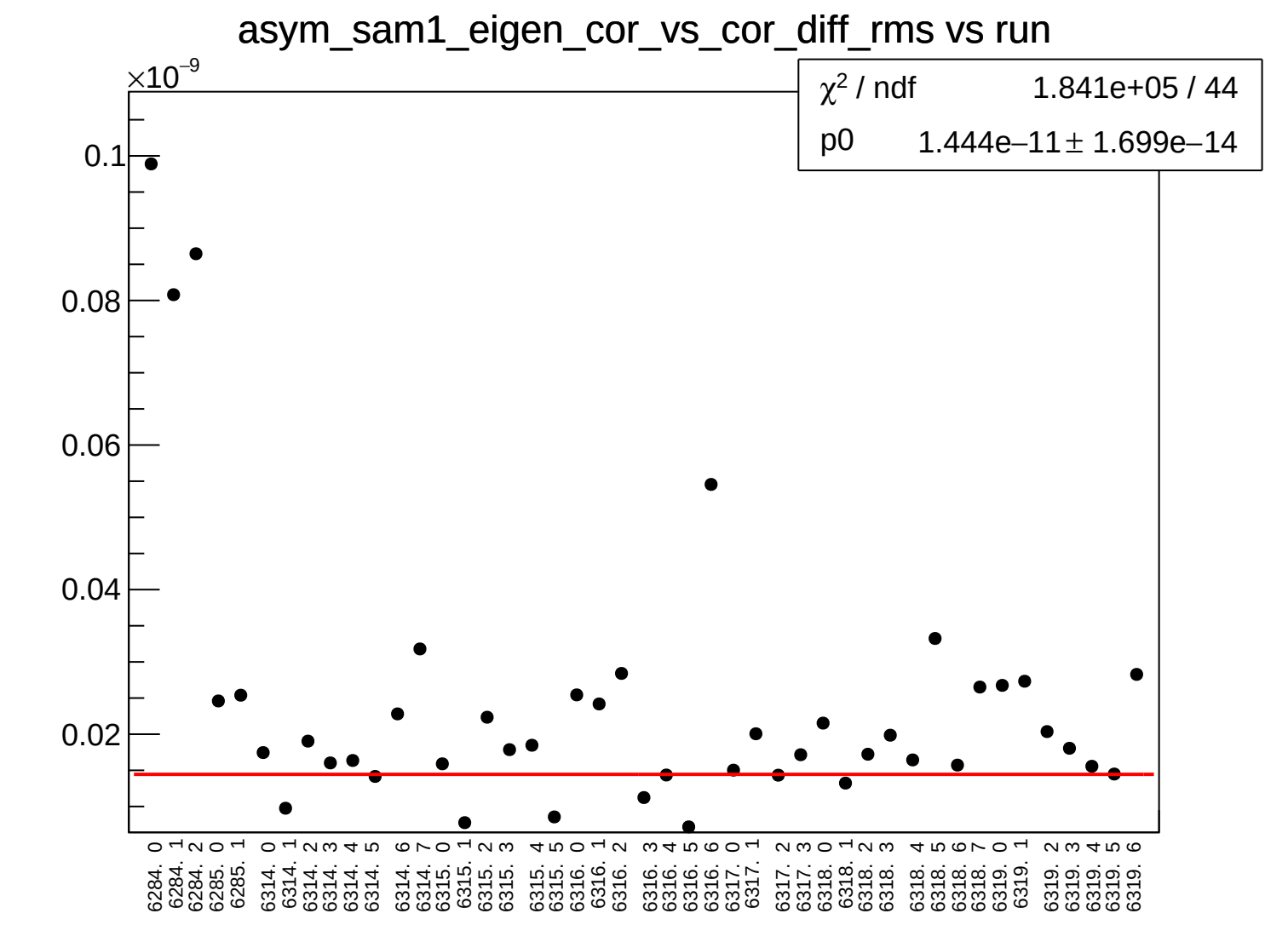

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.78 / 44
p0 0.02441± 0.03236
pull
Entries 45
Mean 101.9
Std Dev 0
pull1D
Entries 45
Mean 0.02683
Std Dev 0.986


asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.969e+04 / 44
p0 21.44 ± 0.02288
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.78 / 44
p0 0.02441± 0.03236
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 101.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02683
Std Dev 0.986
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.969e+04 / 44
p0 21.44 ± 0.02288
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.94 / 44
p0 −5.743e−15 ± 2.402e−14
3
2
1
0
−1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −969.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.004157
Std Dev 0.9182
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.841e+05 / 44
p0 1.444e−11 ± 1.699e−14
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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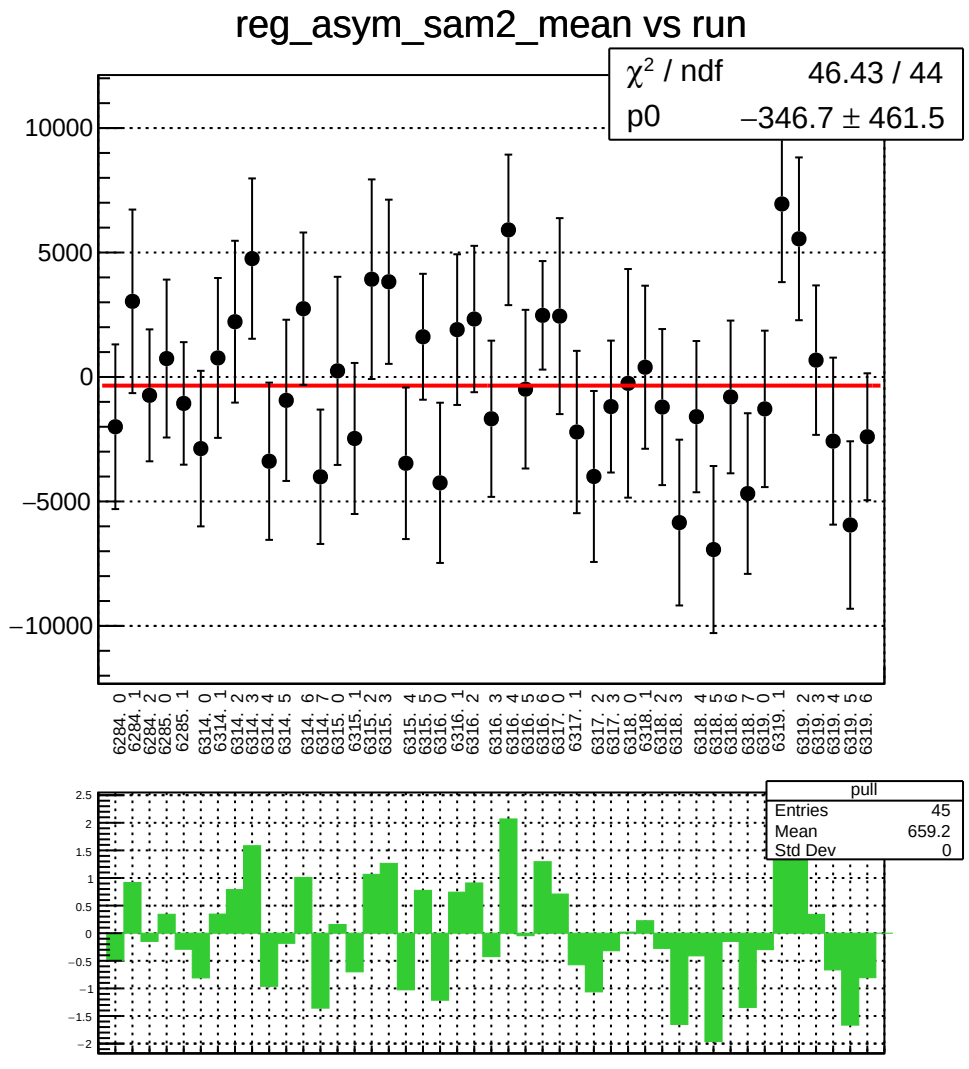
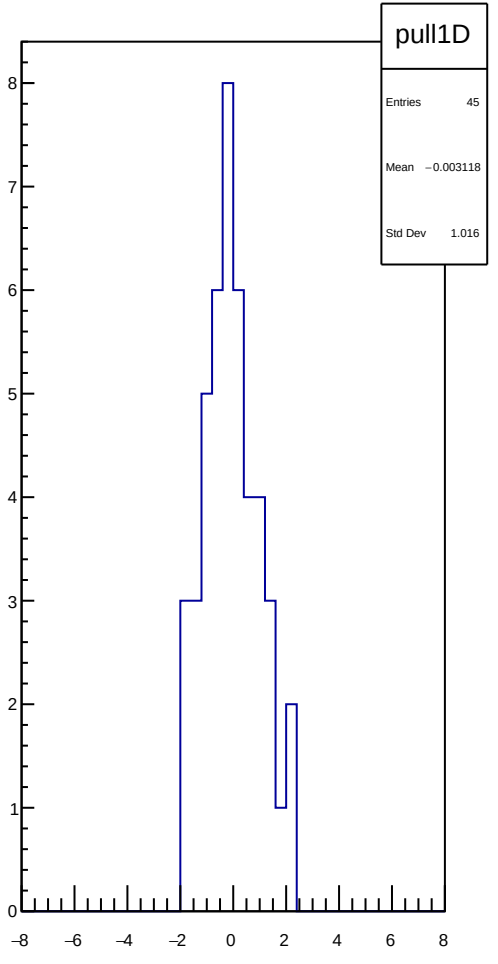
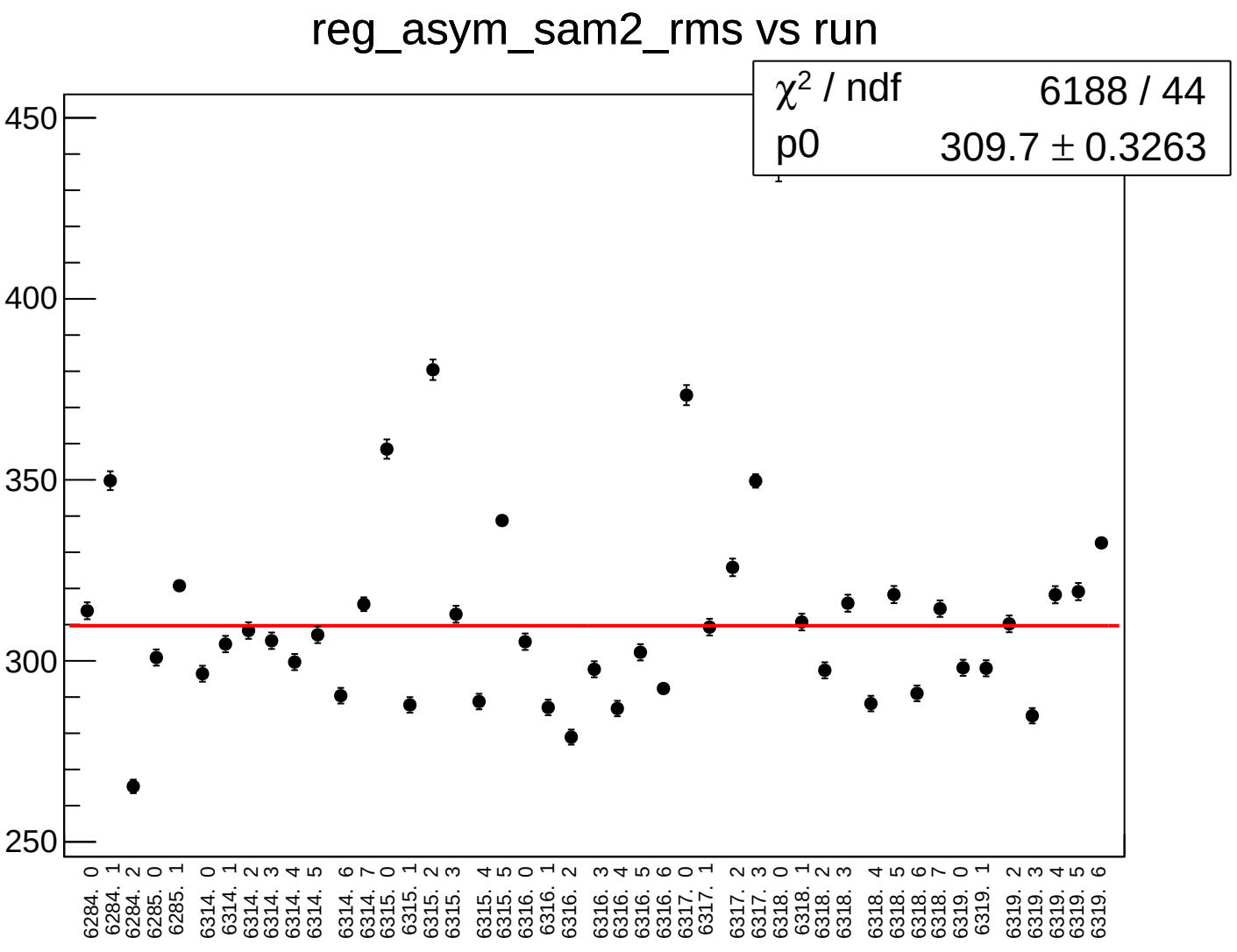
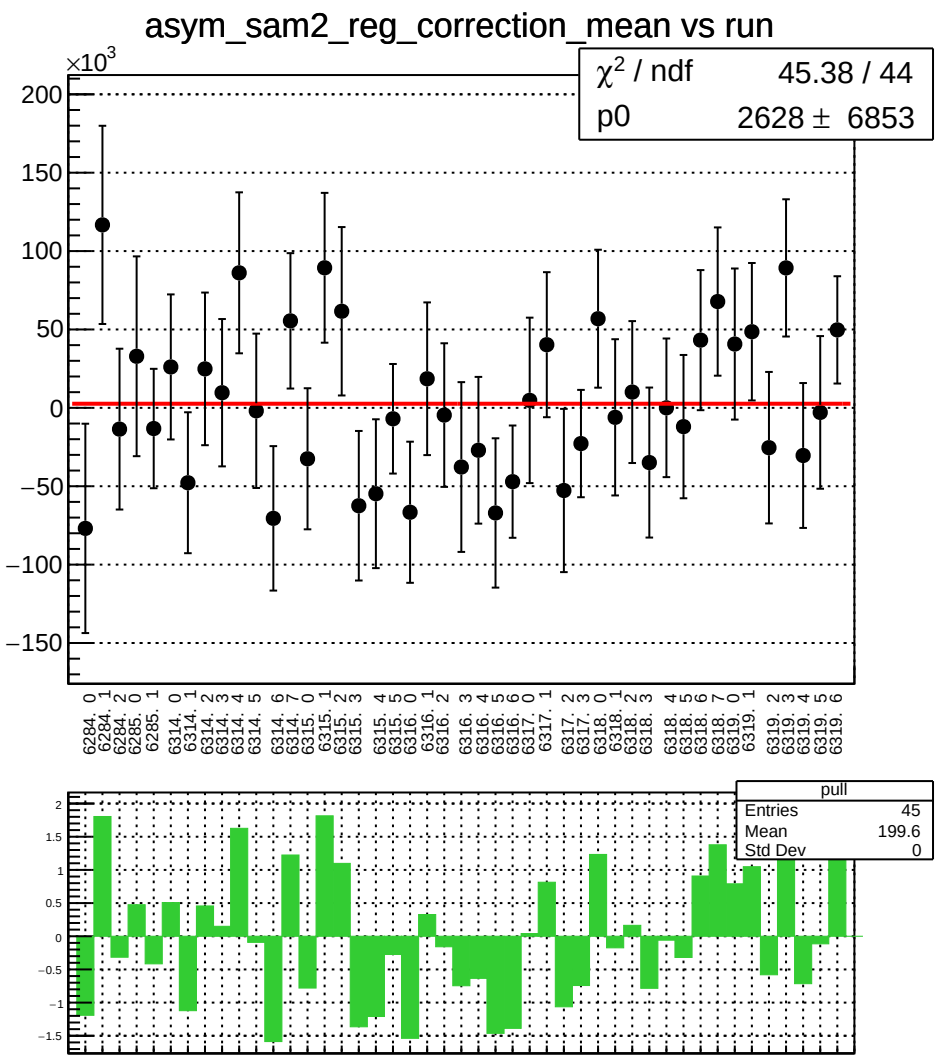
6319. 5
6319. 6


reg_asym_sam2_mean vs run
χ² / ndf 46.43 / 44
p0 −346.7 ± 461.5
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 659.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.003118
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_rms vs run
χ² / ndf 6188 / 44
p0 309.7 ± 0.3263
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 45.38 / 44
p0 2628 ± 6853
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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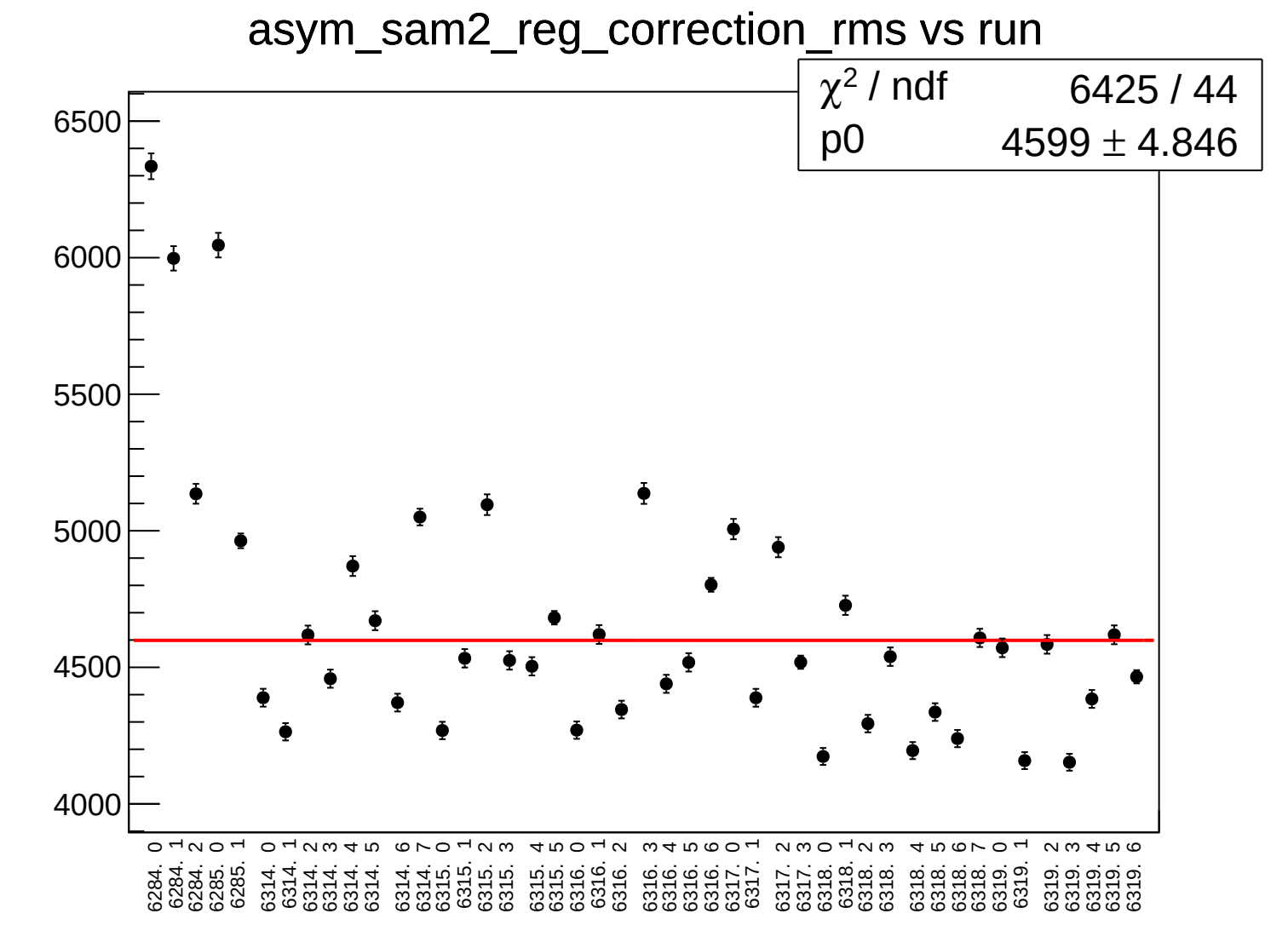
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 199.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.008641
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_reg_correction_rms vs run
χ² / ndf 6425 / 44
p0 4599 ± 4.846
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6316. 1
6316. 2
6316. 3
6316. 4
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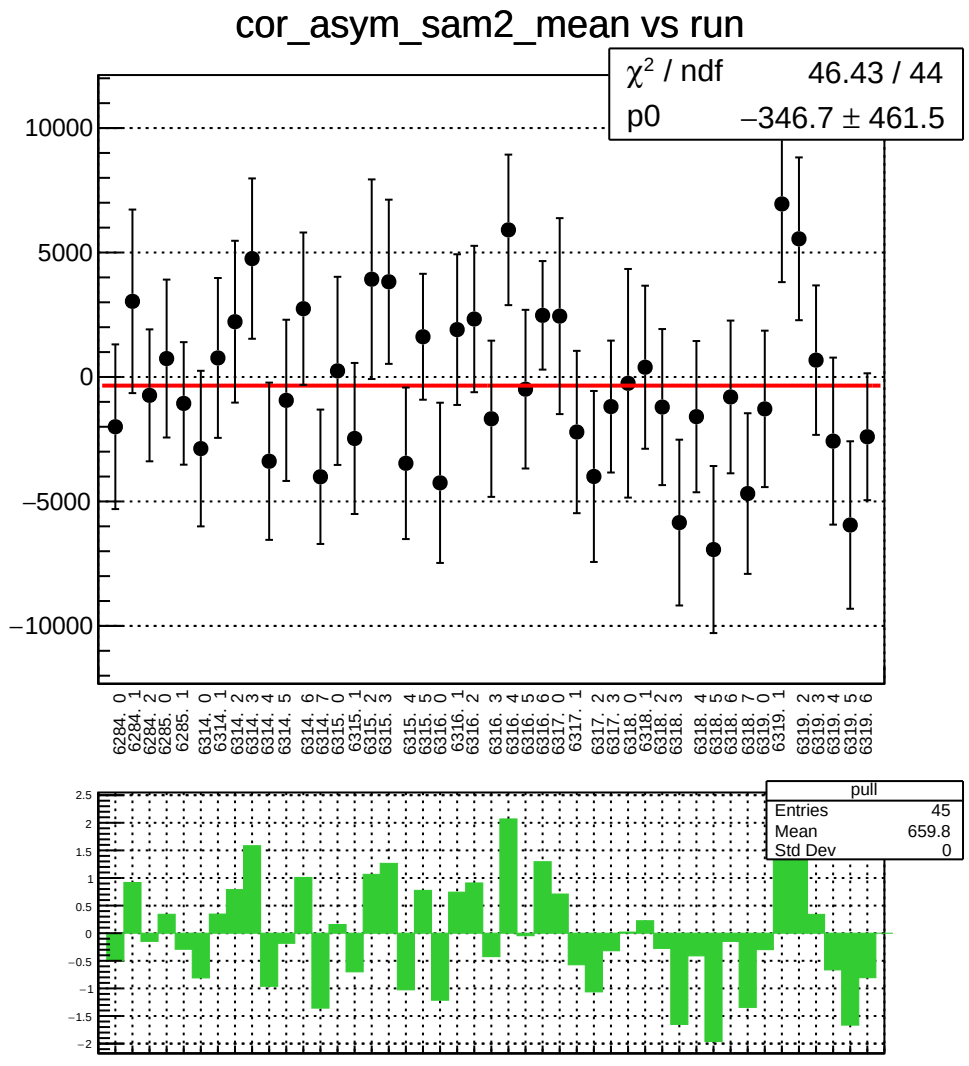
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam2_mean vs run
χ² / ndf 46.43 / 44
p0 −346.7 ± 461.5
10000
5000
0
−5000
−10000
6284. 0
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6284. 2
6285. 0
6285. 1
6314. 0
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6314. 3
6314. 4
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6314. 7
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6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
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6317. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 659.8
Std Dev 0
2.5
2
1.5
1
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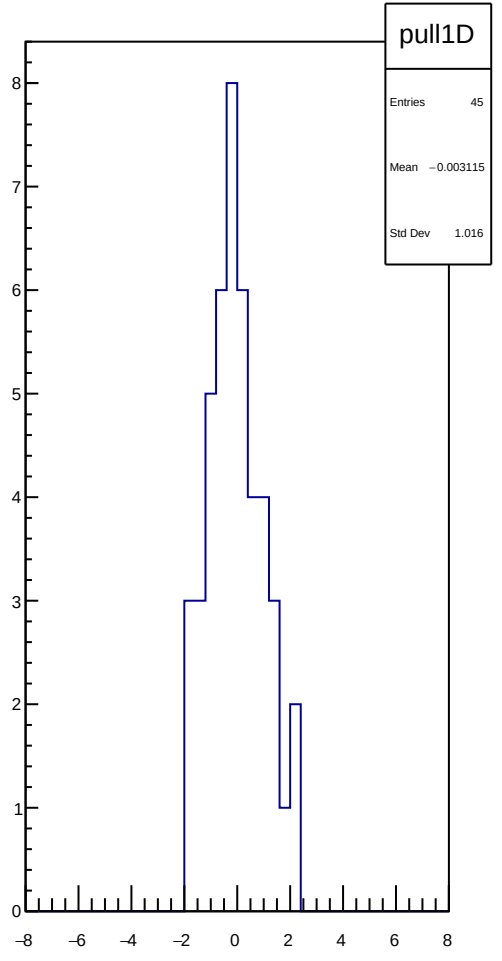
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.003115
Std Dev 1.016
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5
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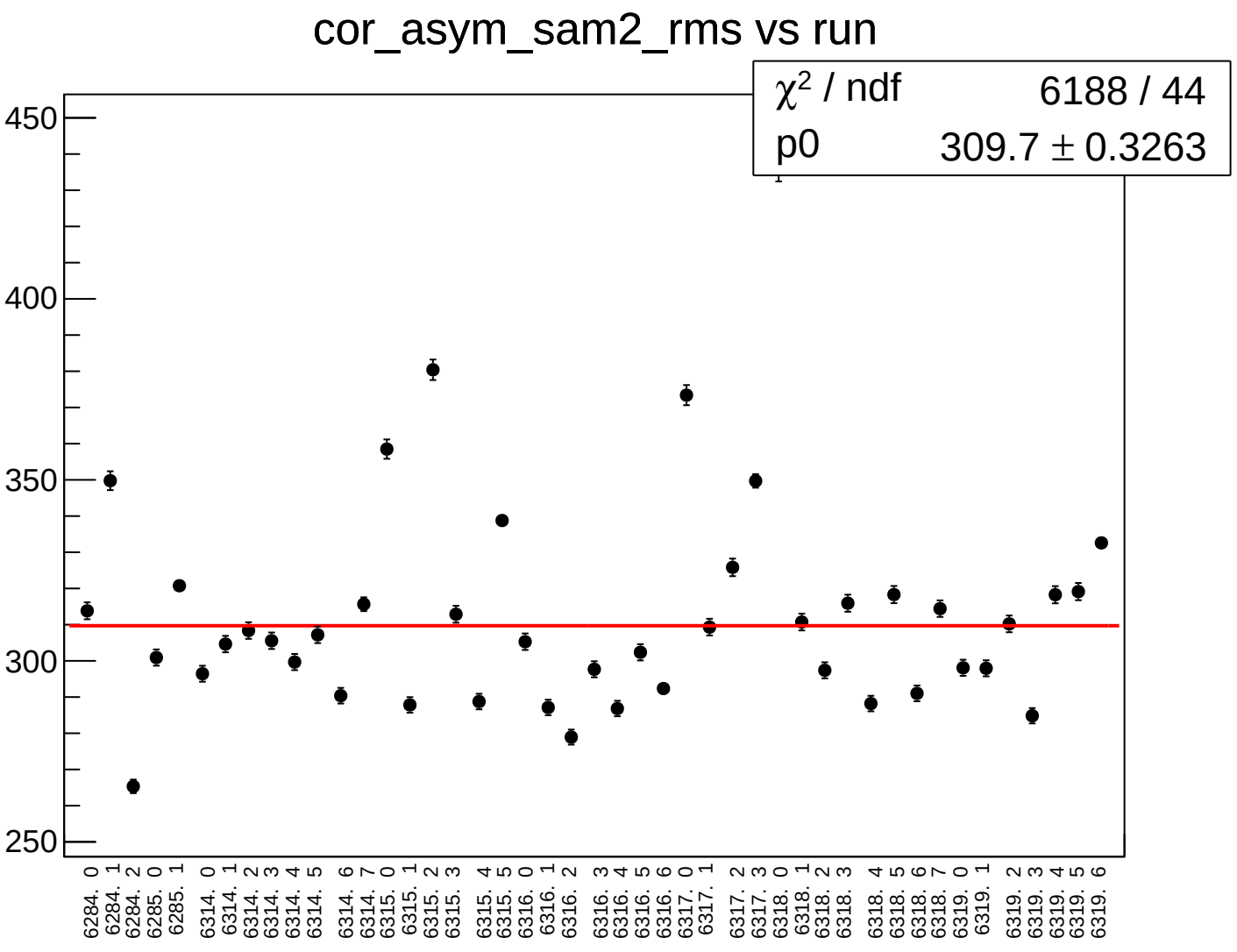
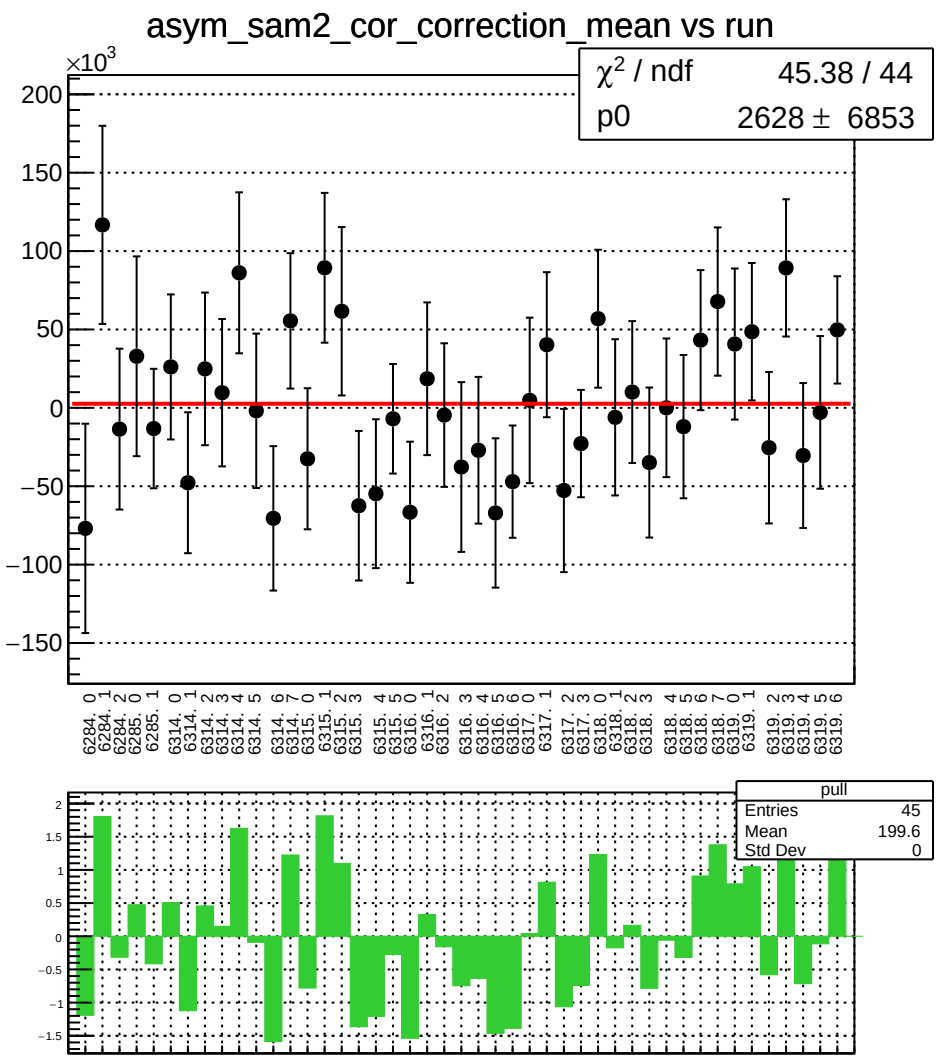
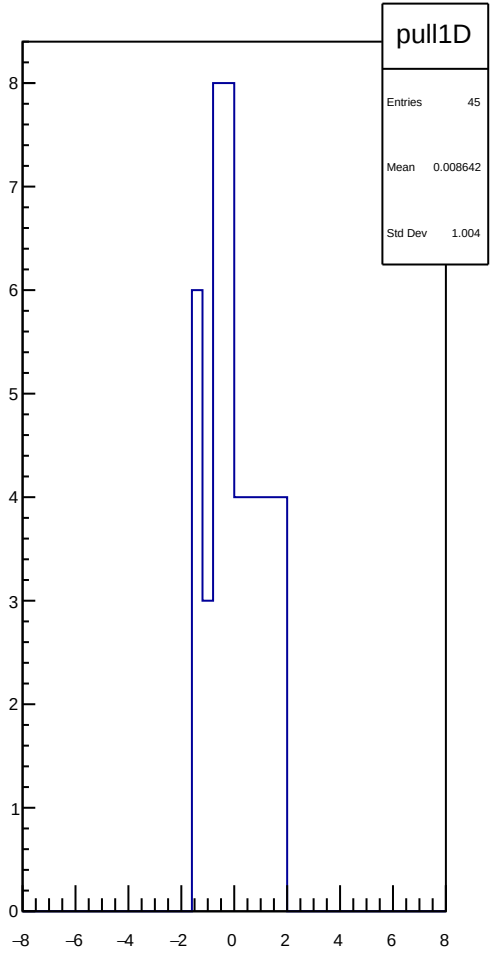
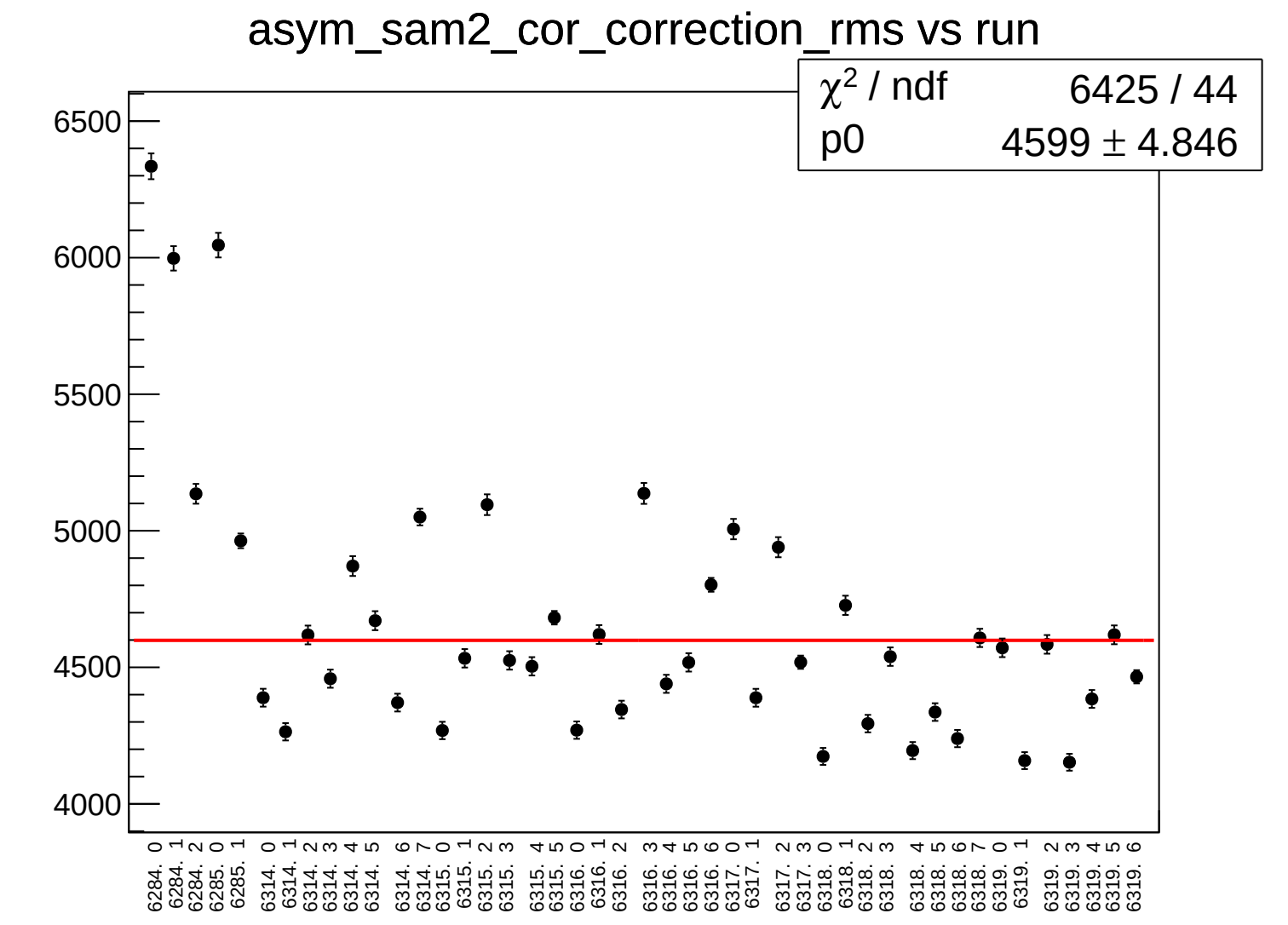

cor_asym_sam2_rms vs run
χ² / ndf 6188 / 44
p0 309.7 ± 0.3263
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam2_cor_correction_mean vs run
χ² / ndf 45.38 / 44
p0 2628 ± 6853
×10³
pull
Entries 45
Mean 199.6
Std Dev 0


pull1D
Entries 45
Mean 0.008642
Std Dev 1.004


asym_sam2_cor_correction_rms vs run
χ² / ndf 6425 / 44
p0 4599 ± 4.846
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
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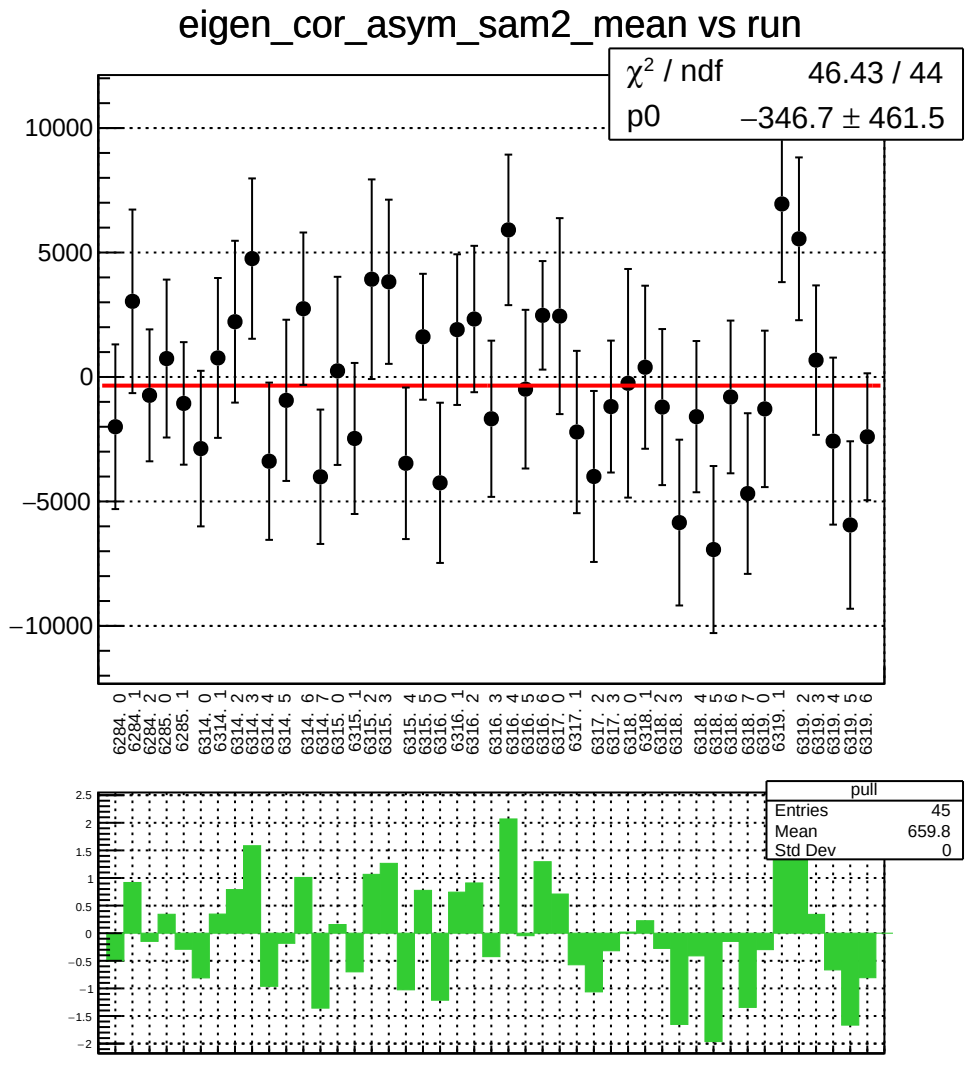
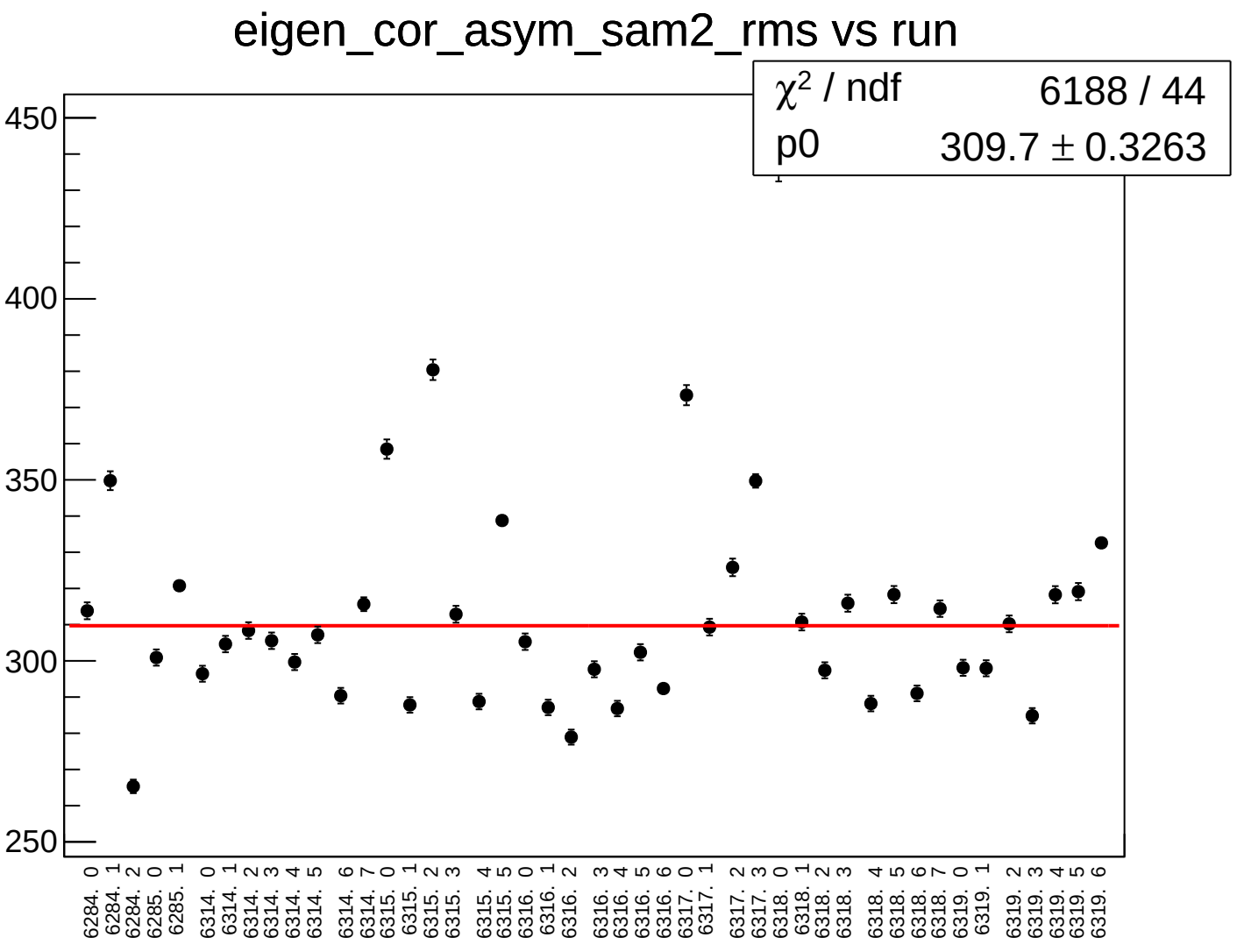
6319. 5
6319. 6


eigen_cor_asym_sam2_mean vs run
χ² / ndf 46.43 / 44
p0 −346.7 ± 461.5
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 659.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003115
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 6188 / 44
p0 309.7 ± 0.3263
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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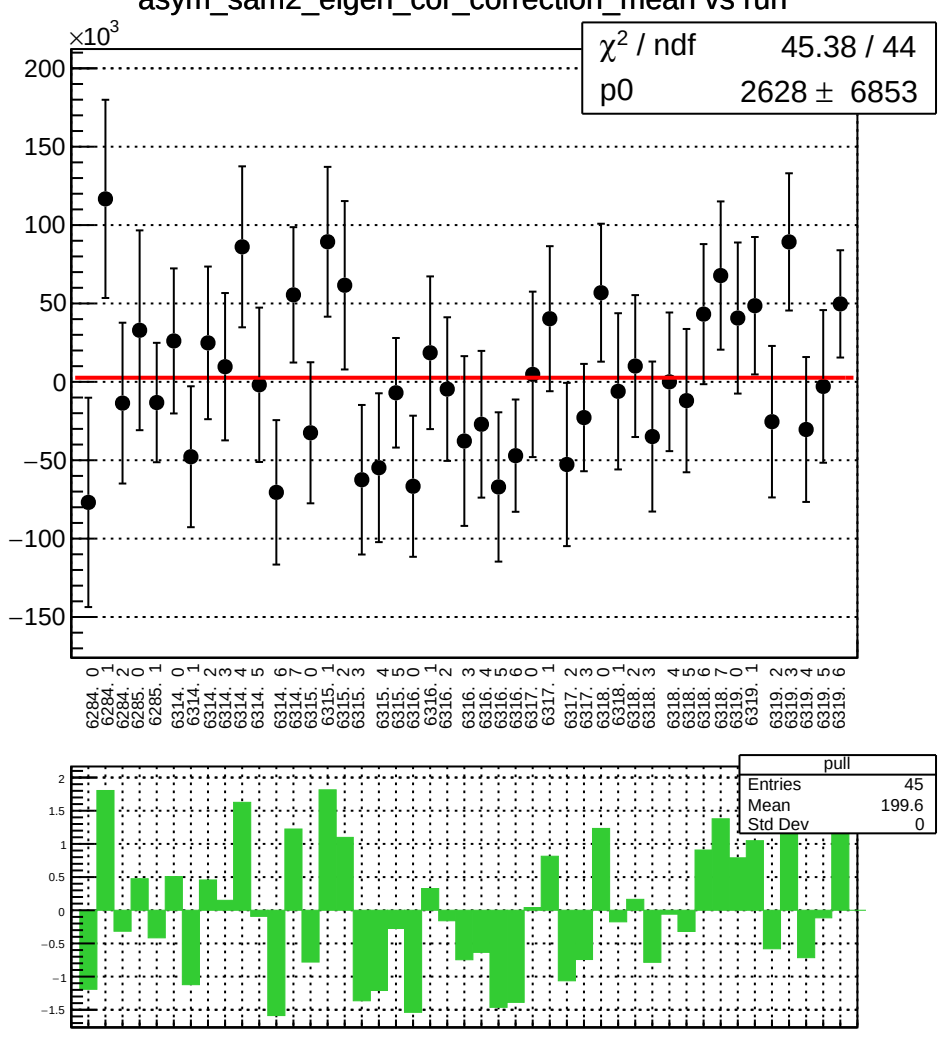
6319. 5
6319. 6


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 45.38 / 44
p0 2628 ± 6853
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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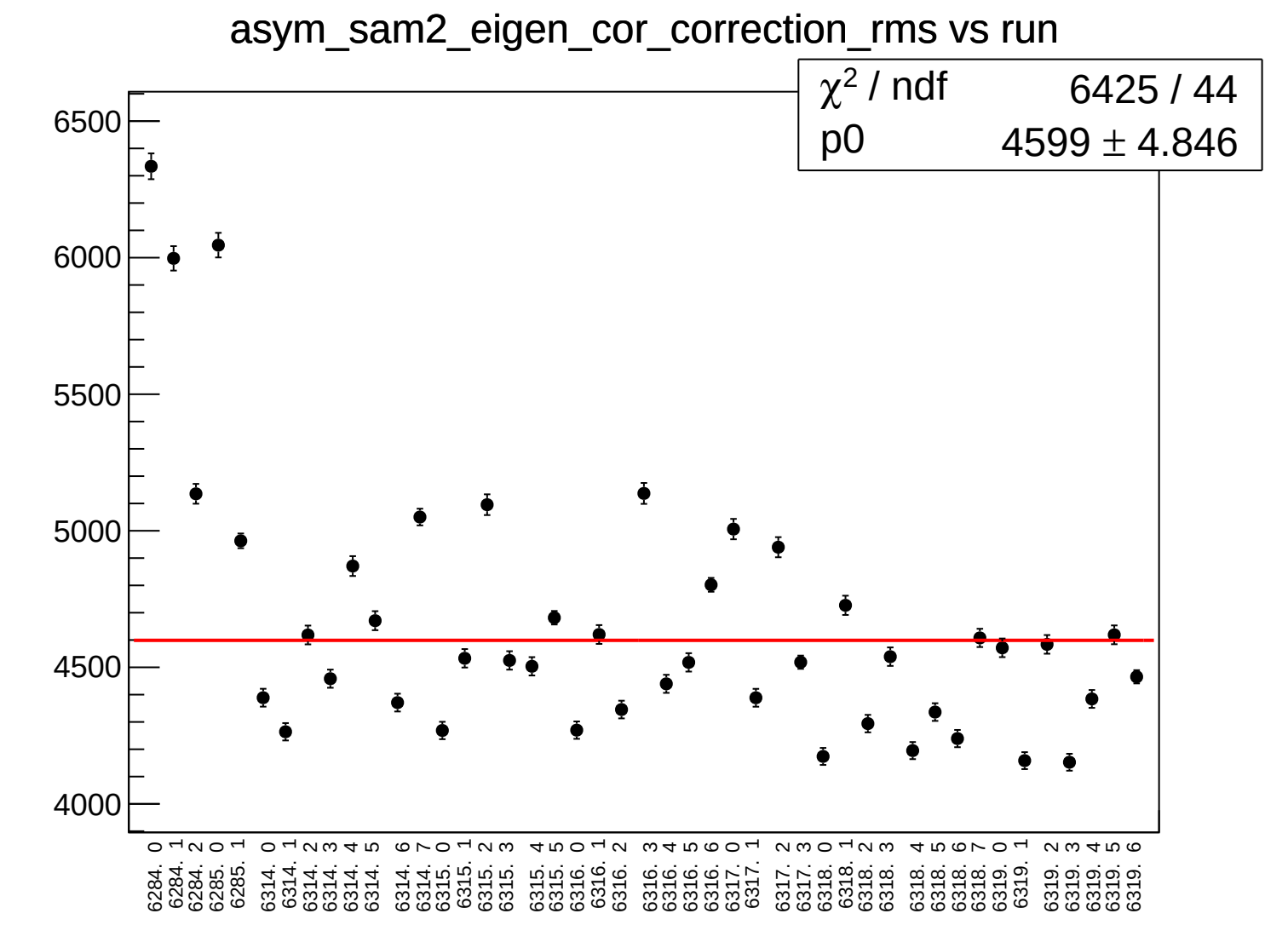
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 199.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.008642
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 6425 / 44
p0 4599 ± 4.846
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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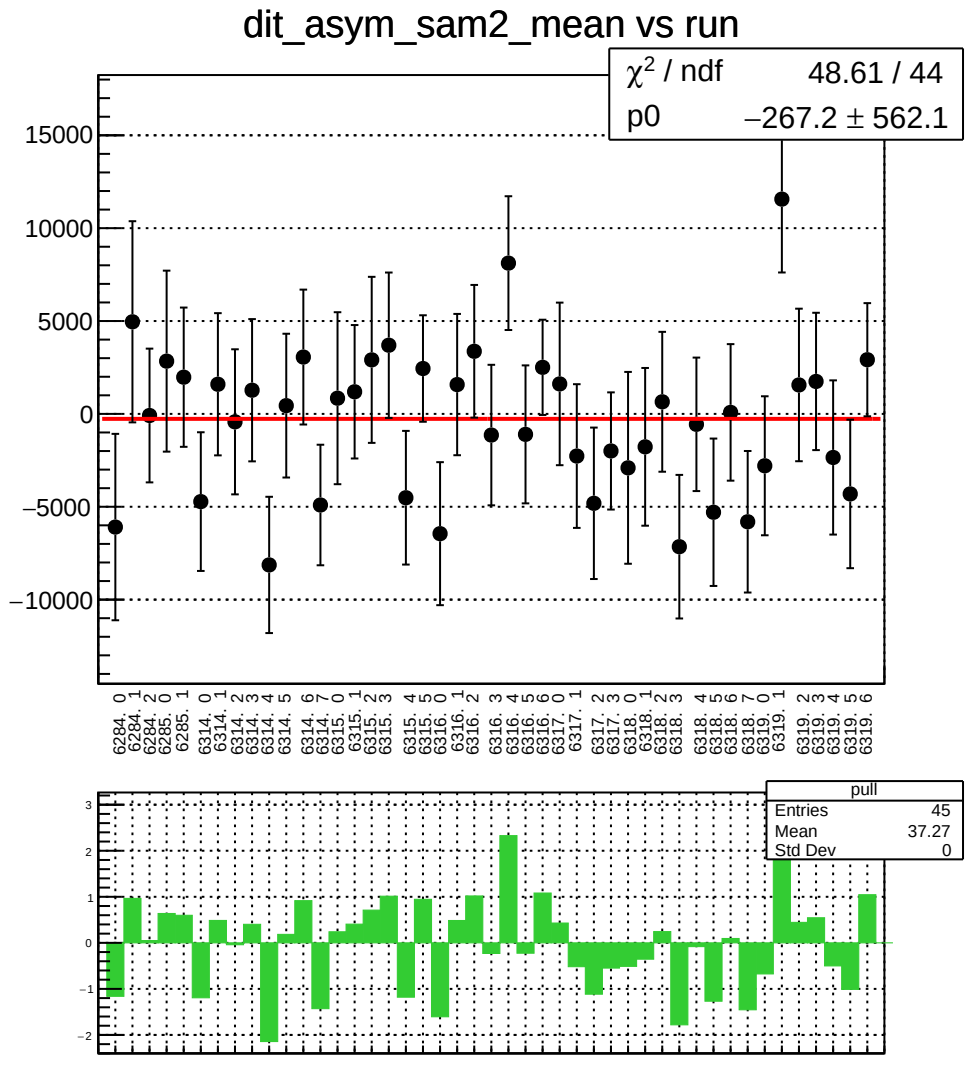
6319. 5
6319. 6


dit_asym_sam2_mean vs run
χ² / ndf 48.61 / 44
p0 −267.2 ± 562.1
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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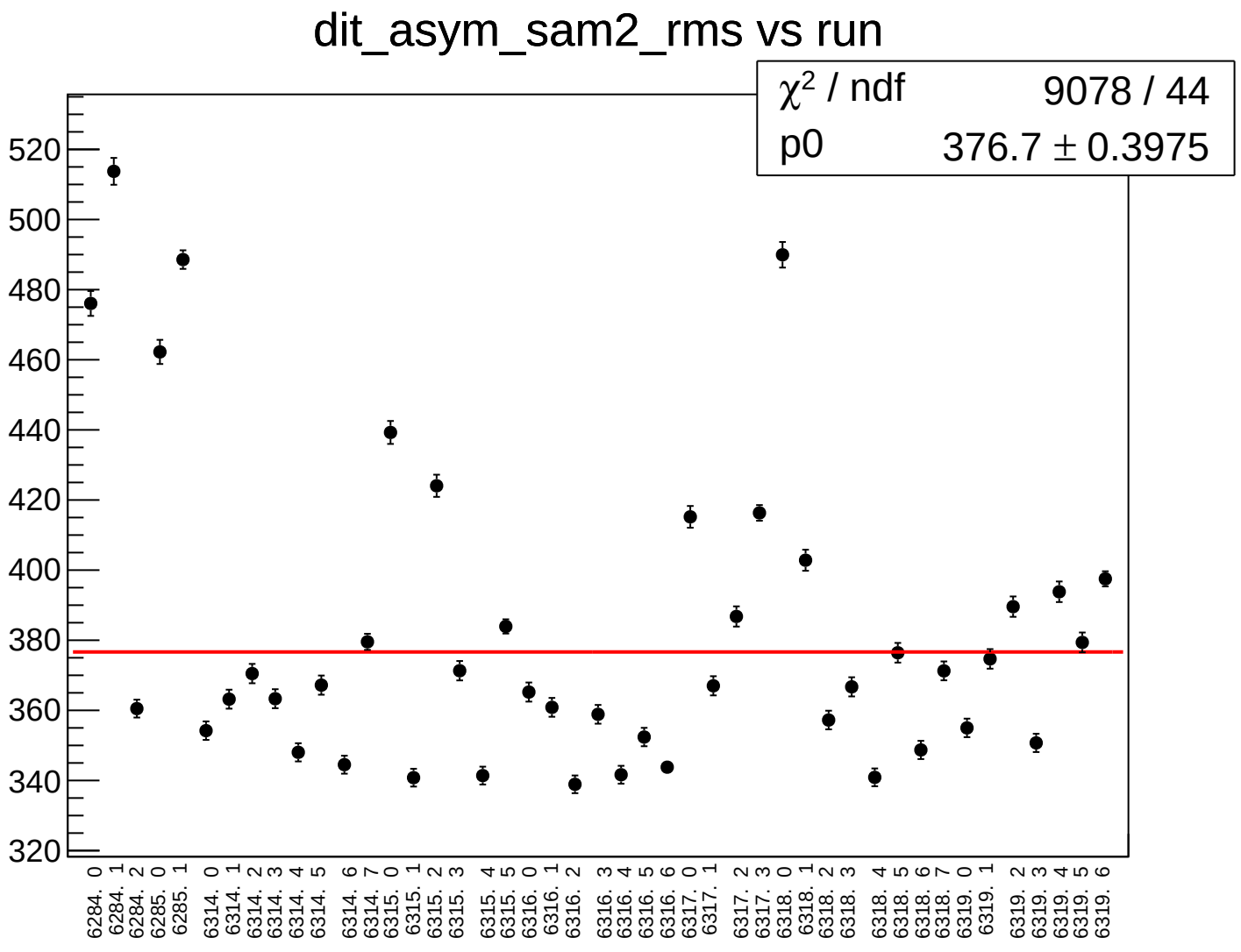
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01683
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam2_rms vs run
χ^2 / ndf 9078 / 44
p0 376.7 ± 0.3975
520
500
480
460
440
420
400
380
360
340
320
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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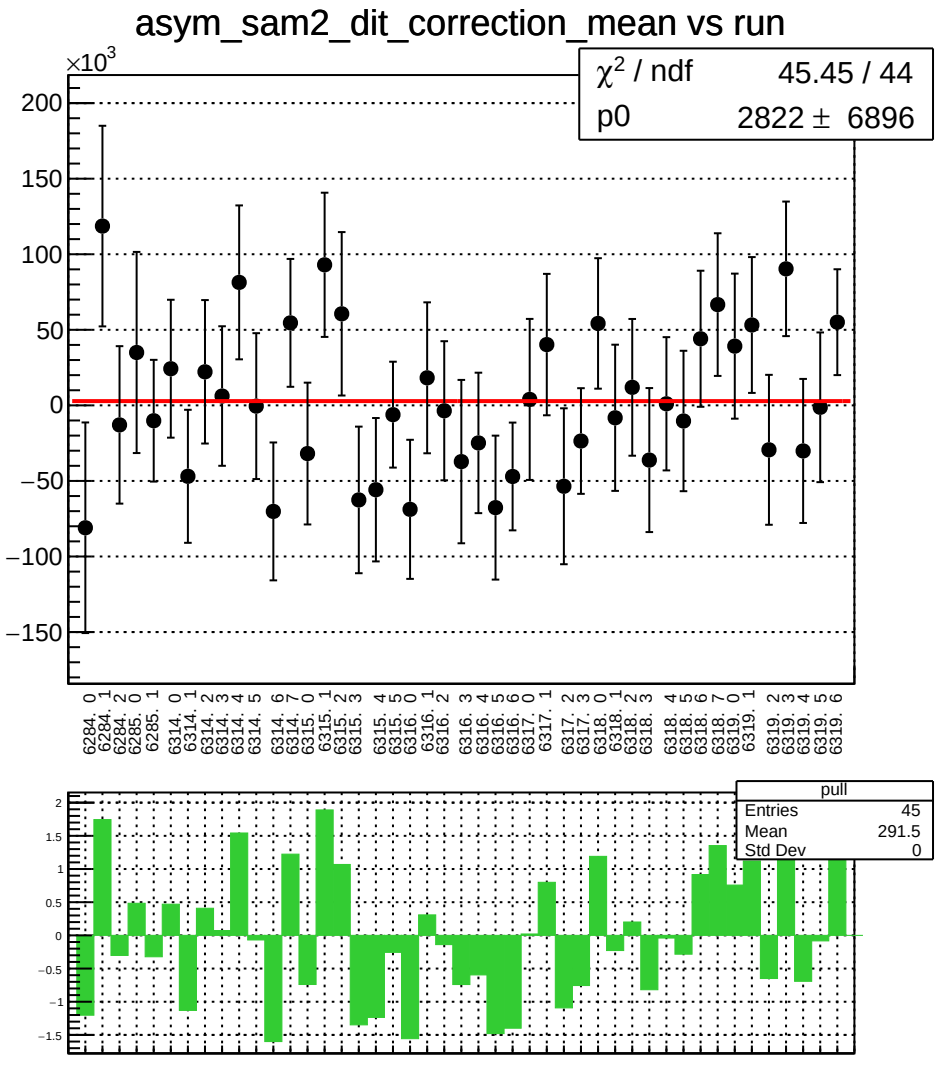
6319. 6


asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 45.45 / 44
p0 2822 ± 6896
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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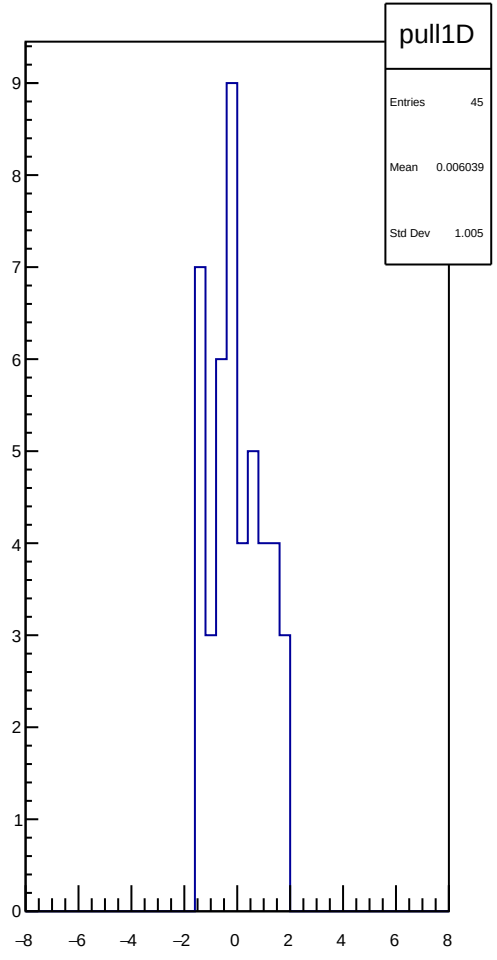
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 291.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.006039
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
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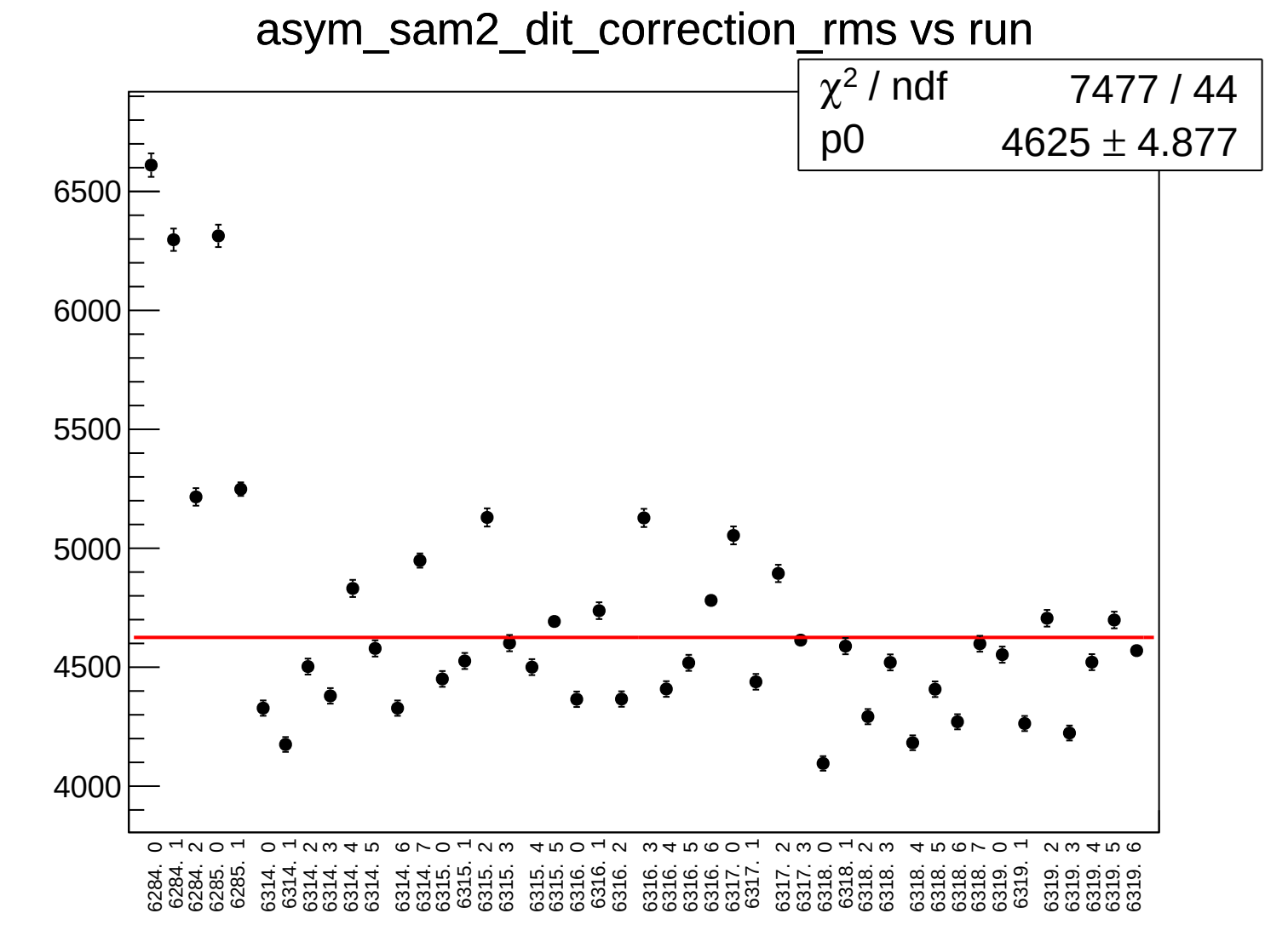
−4
−2
0
2
4
6
8


asym_sam2_dit_correction_rms vs run
χ² / ndf 7477 / 44
p0 4625 ± 4.877
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6316. 1
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6318. 0
6318. 1
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6318. 4
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6319. 1
6319. 2
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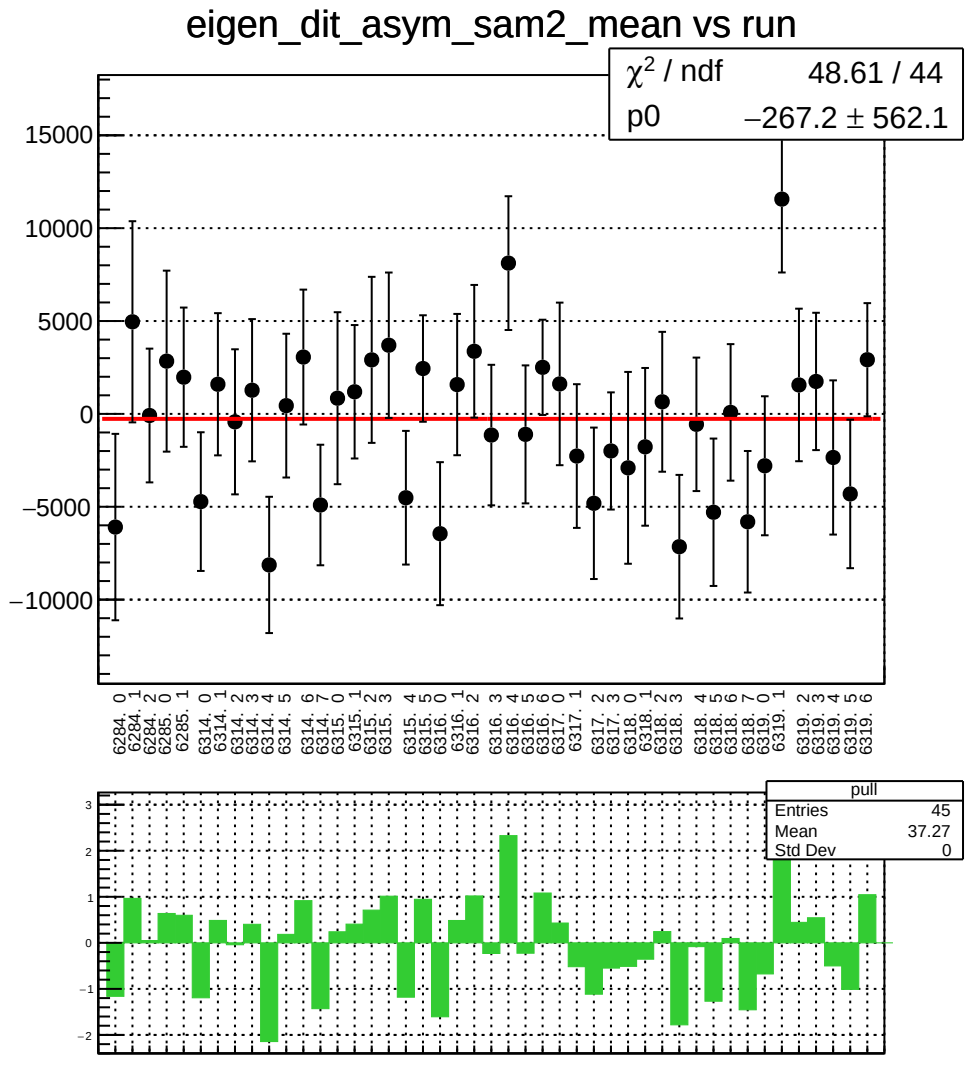
6319. 6


eigen_dit_asym_sam2_mean vs run
χ² / ndf 48.61 / 44
p0 −267.2 ± 562.1
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 0
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6315. 2
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6316. 0
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6316. 2
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6316. 4
6316. 5
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6319. 0
6319. 1
6319. 2
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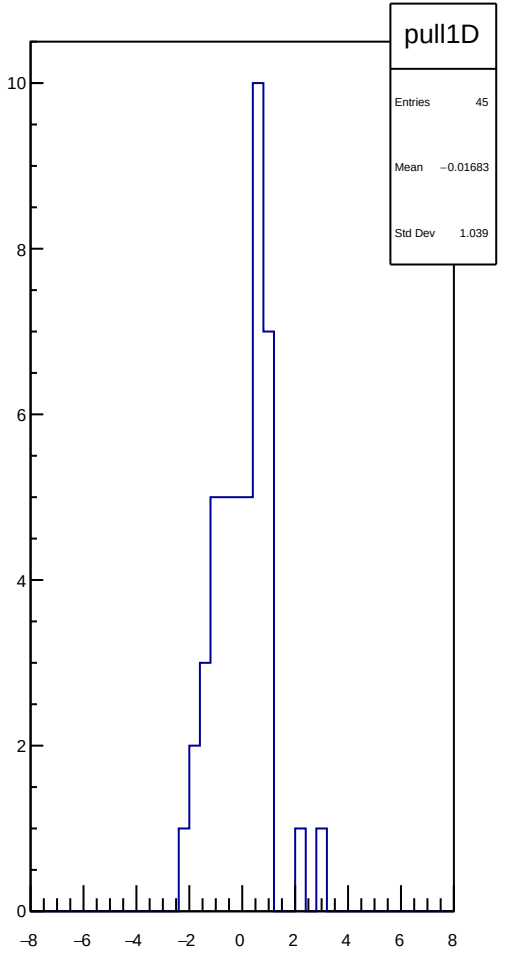
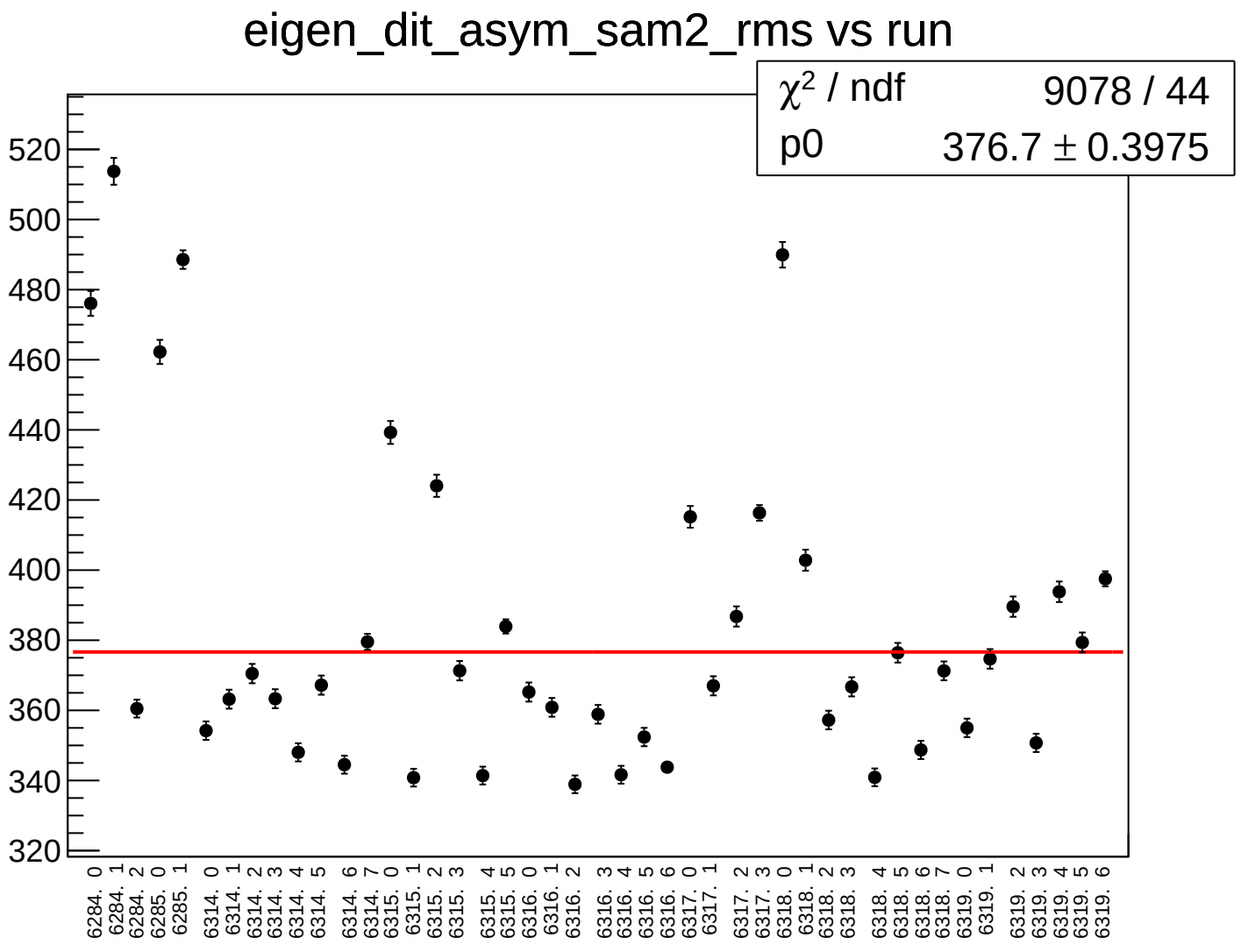
pull
Entries 45
Mean 37.27
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01683
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 9078 / 44
p0 376.7 ± 0.3975
520
500
480
460
440
420
400
380
360
340
320
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 7
6319. 0
6319. 1
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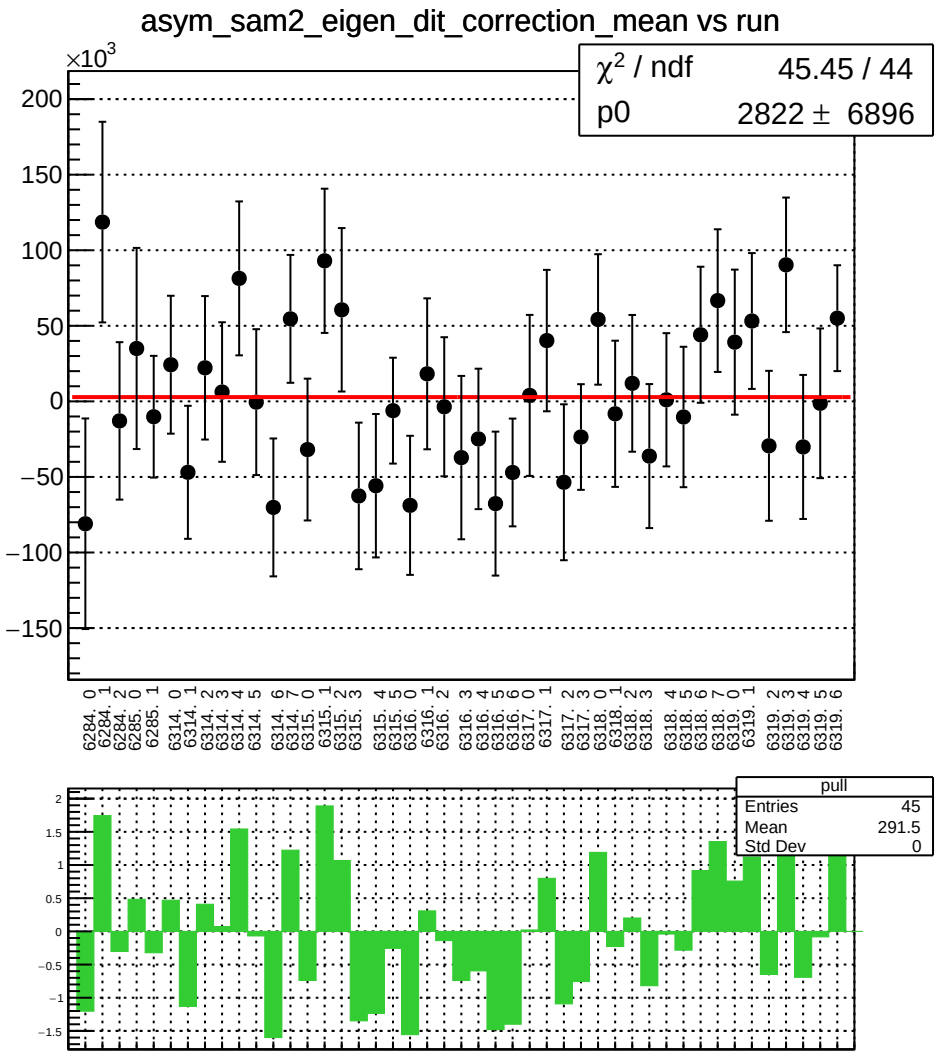
6319. 5
6319. 6


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 45.45 / 44
p0 2822 ± 6896
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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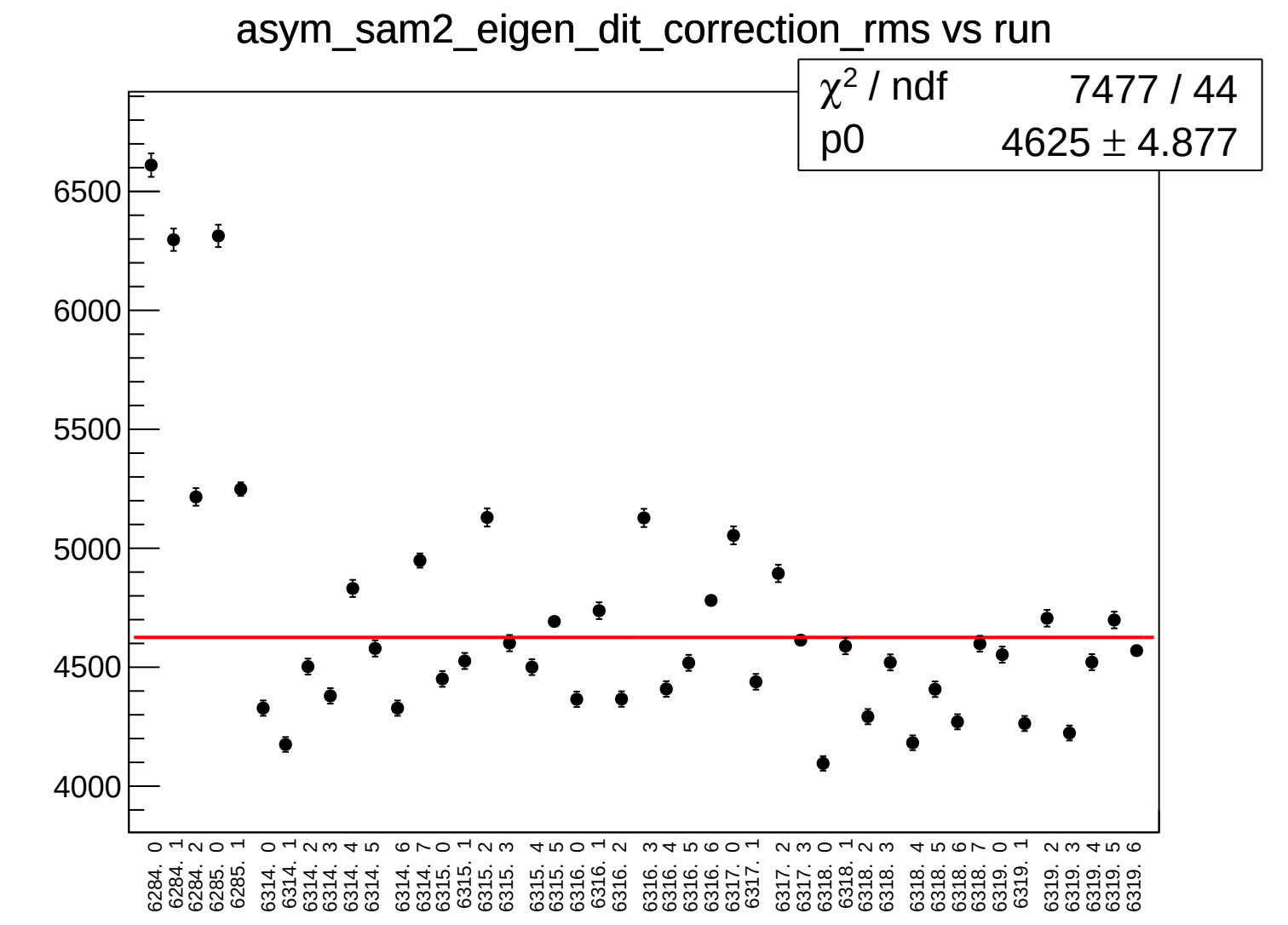
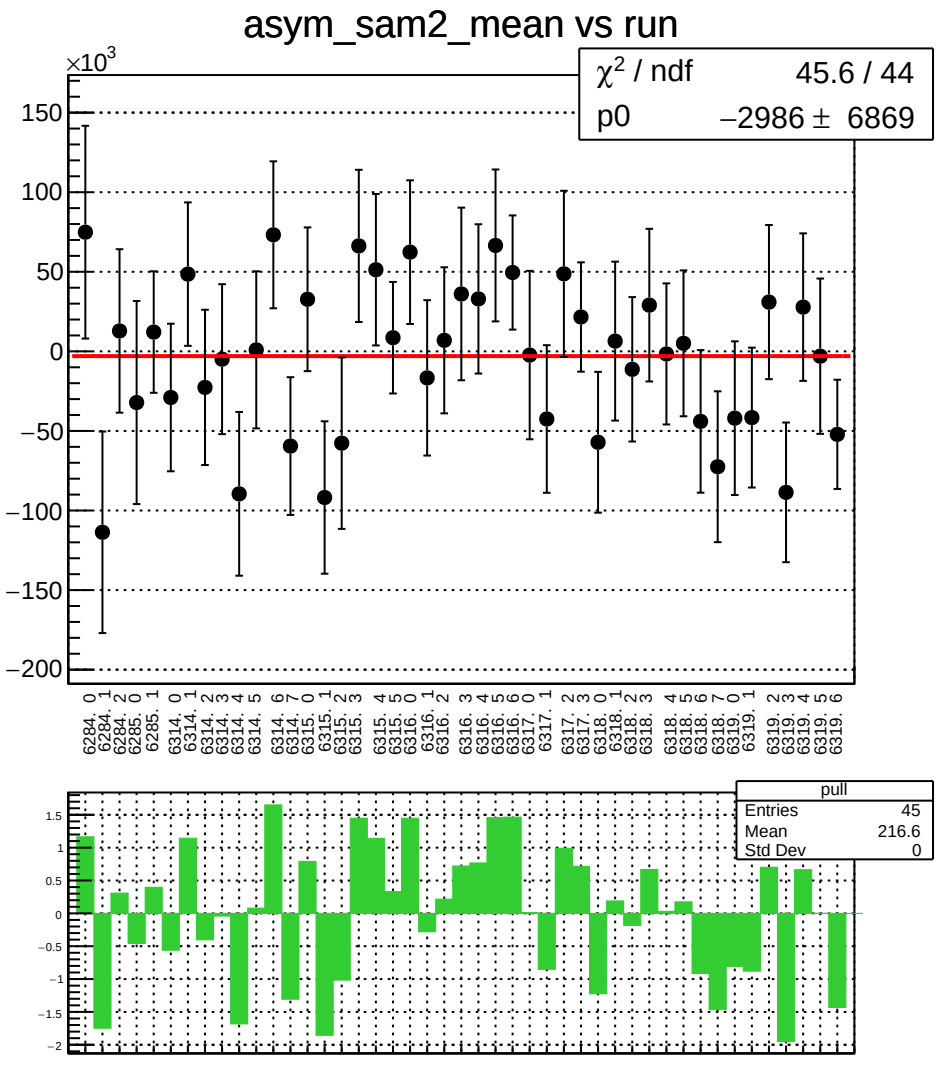
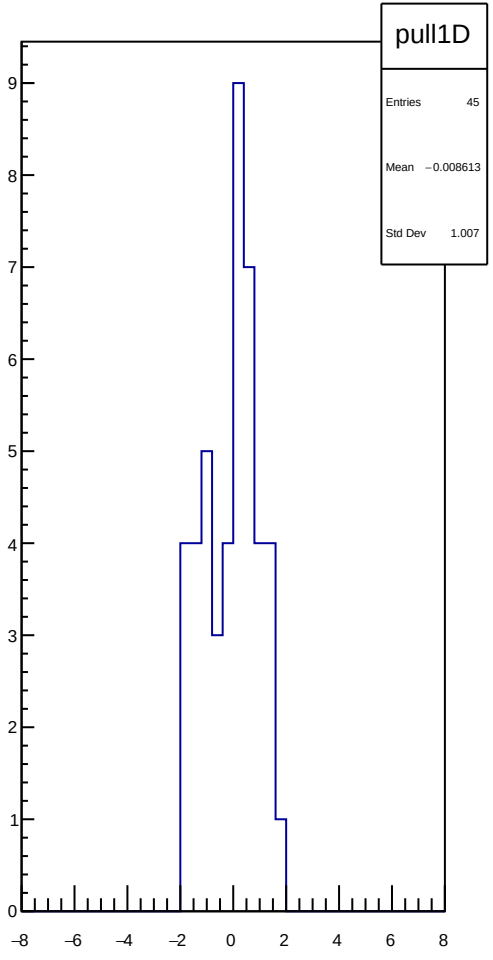
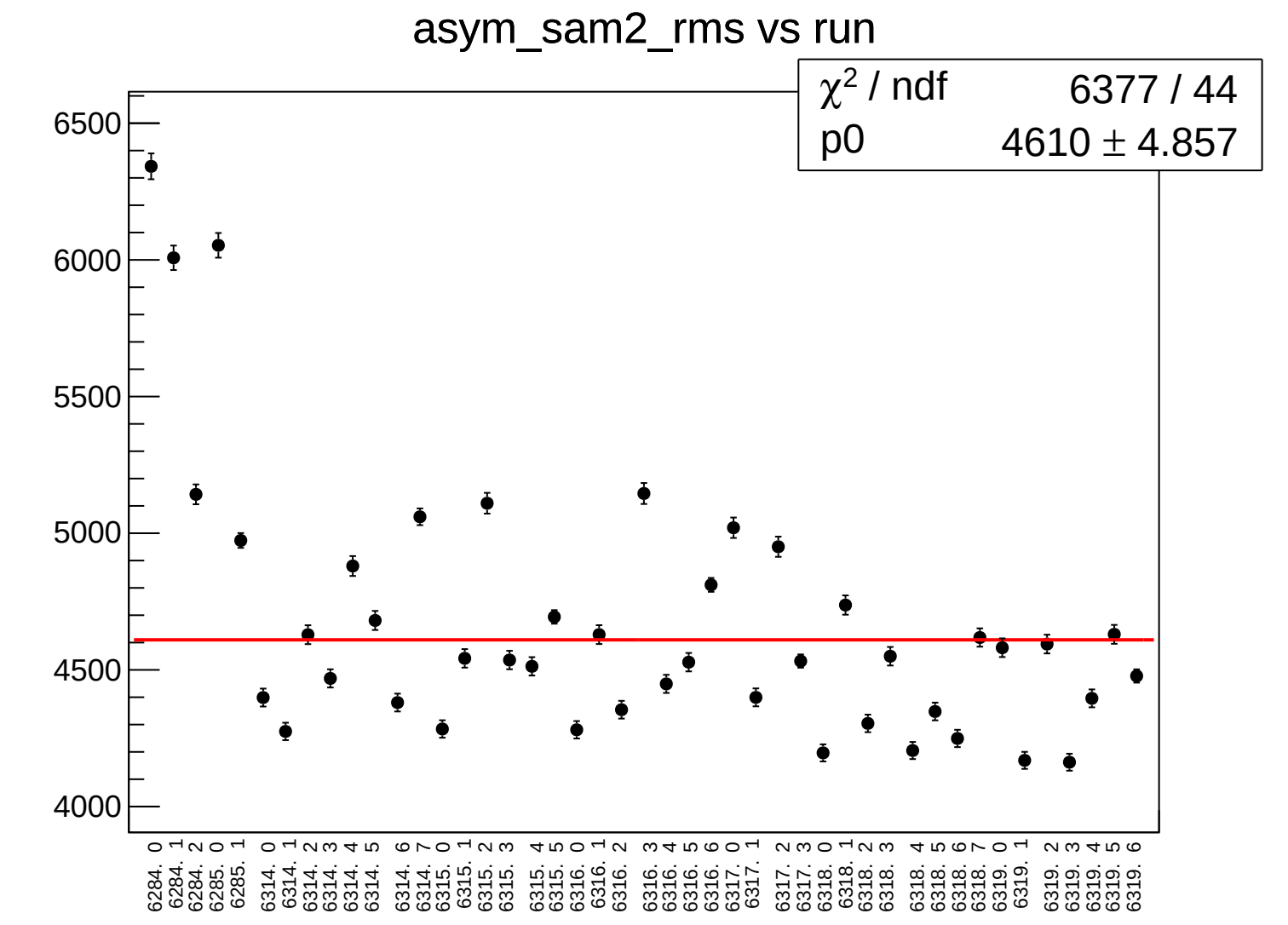
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 291.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.006039
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 7477 / 44
p0 4625 ± 4.877
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam2_mean vs run
×10^3
χ² / ndf 45.6 / 44
p0 −2986 ± 6869
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 216.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.008613
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_rms vs run
χ² / ndf 6377 / 44
p0 4610 ± 4.857
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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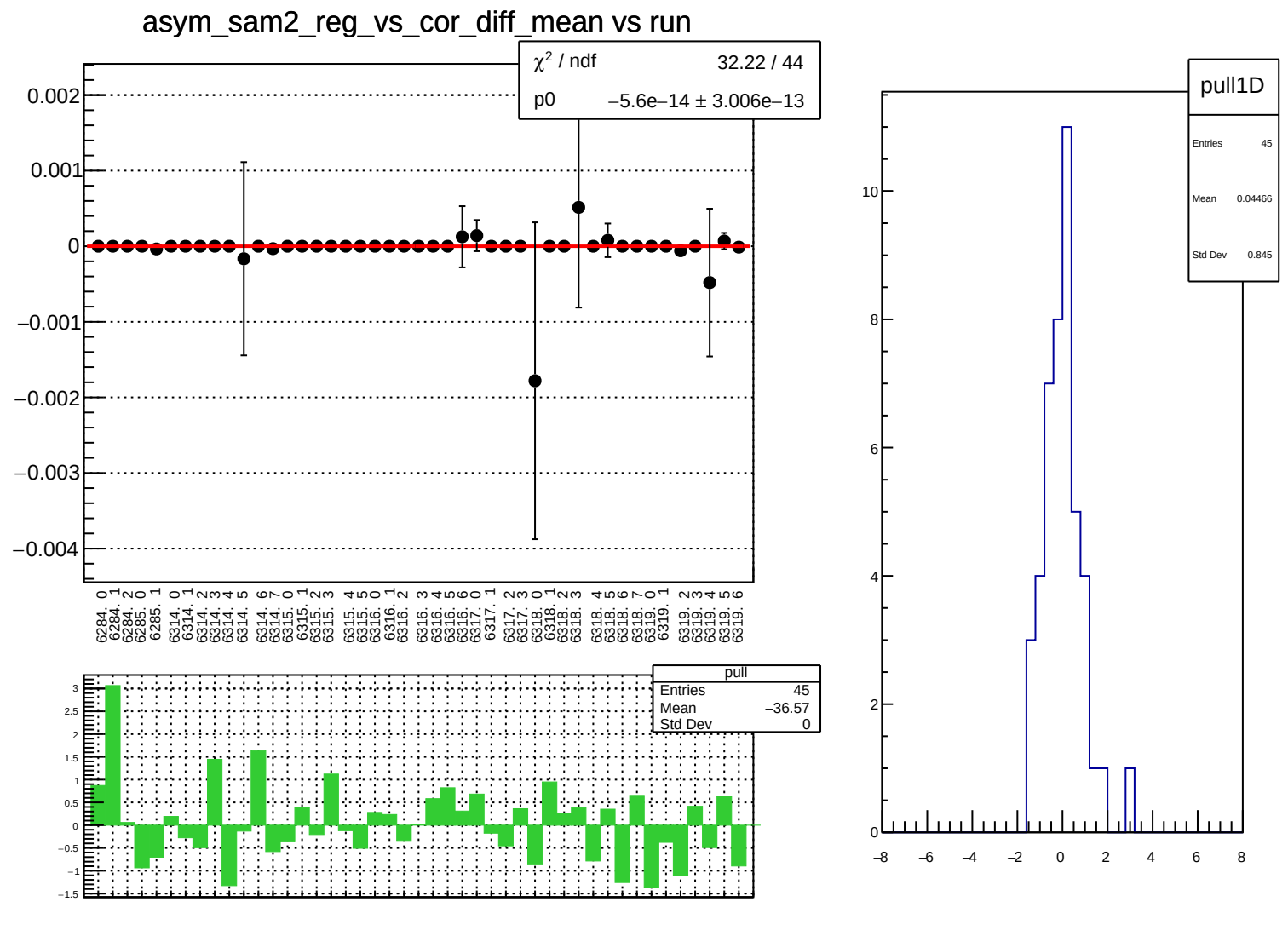
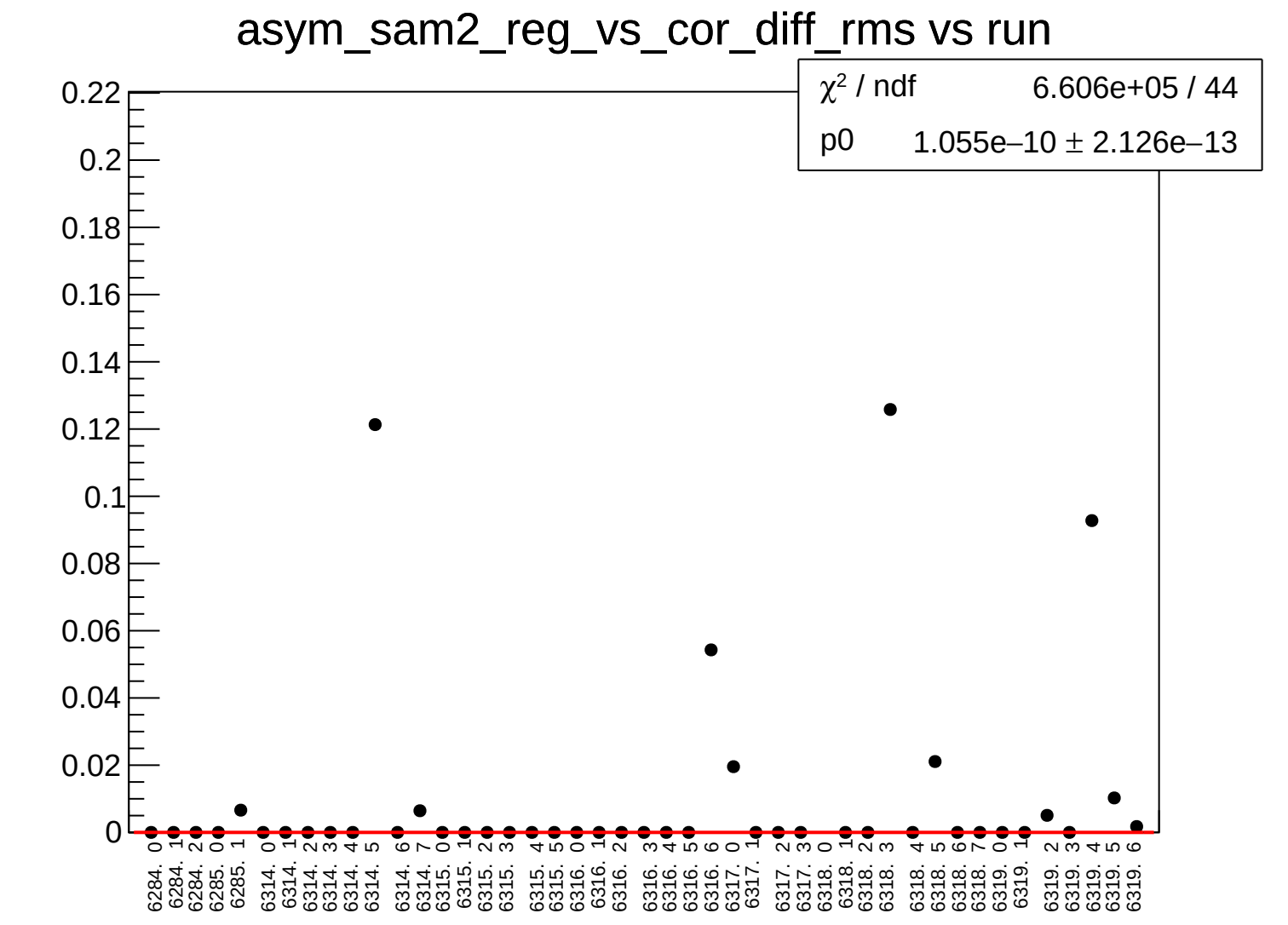
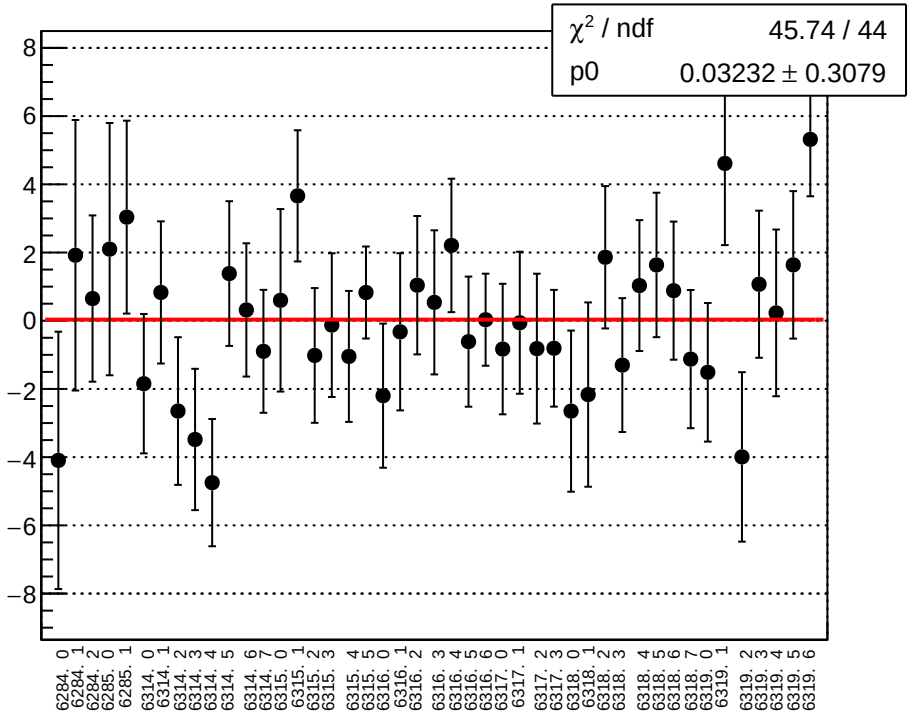
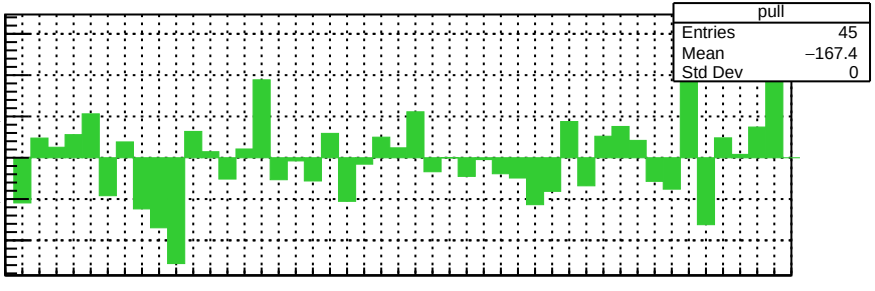
6319. 5
6319. 6

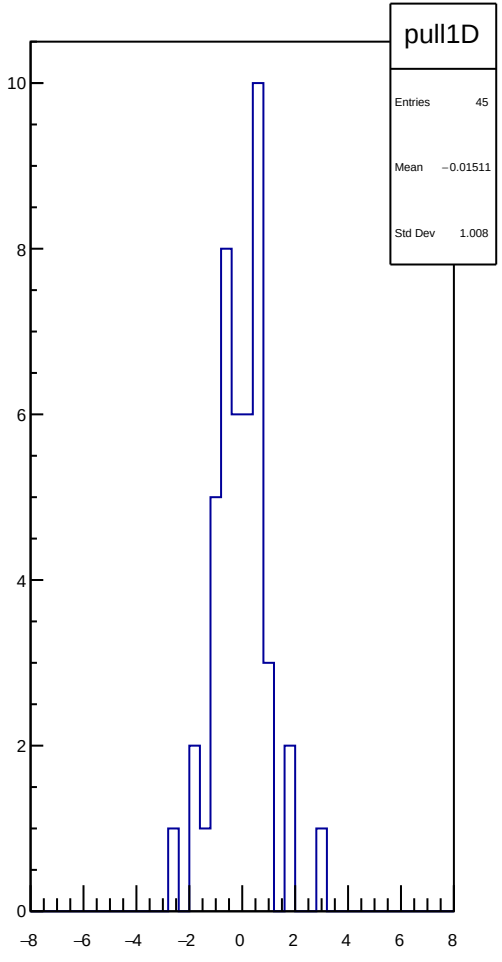

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 32.22 / 44
p0 −5.6e−14 ± 3.006e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −36.57
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04466
Std Dev 0.845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

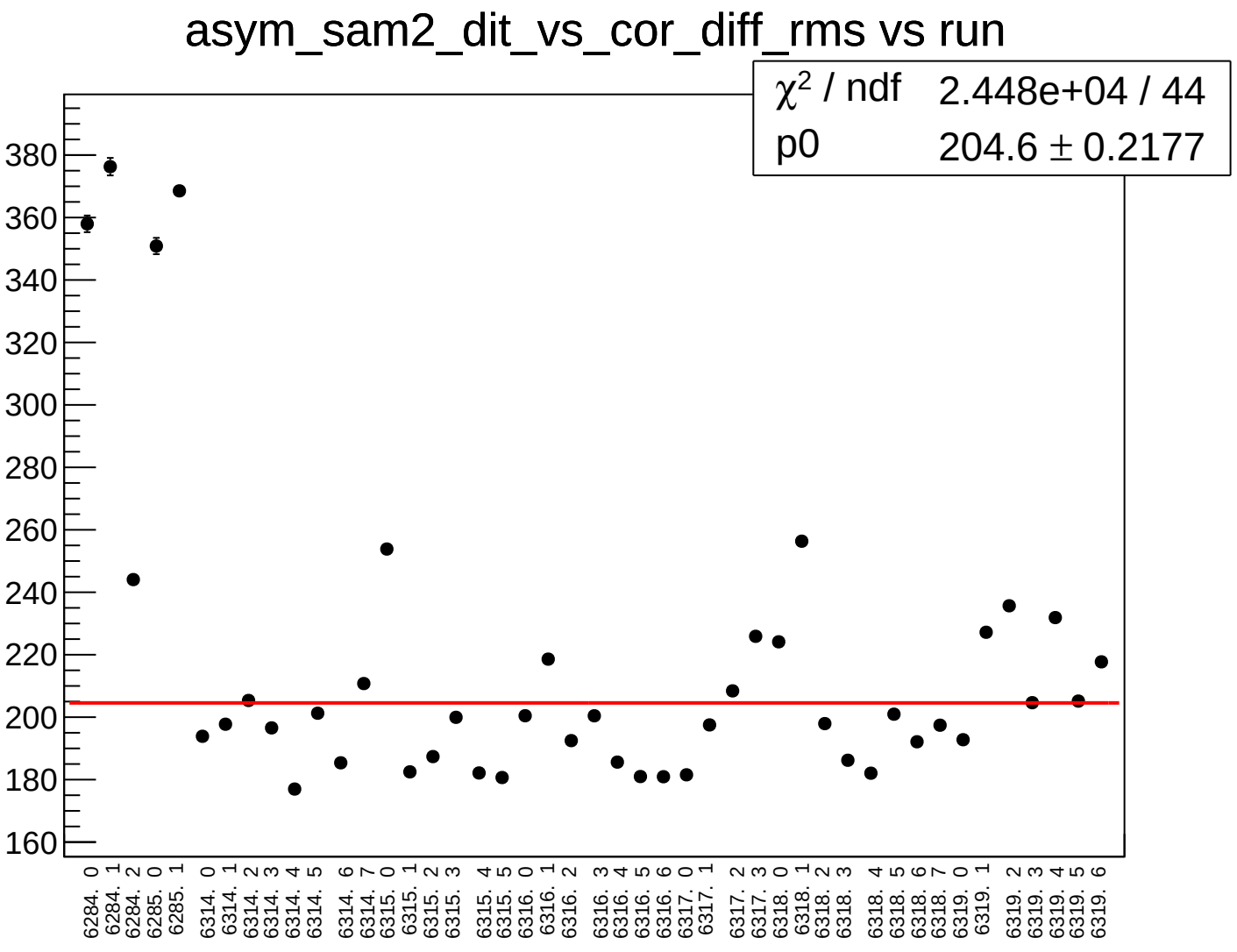

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 6.606e+05 / 44
p0 1.055e−10 ± 2.126e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

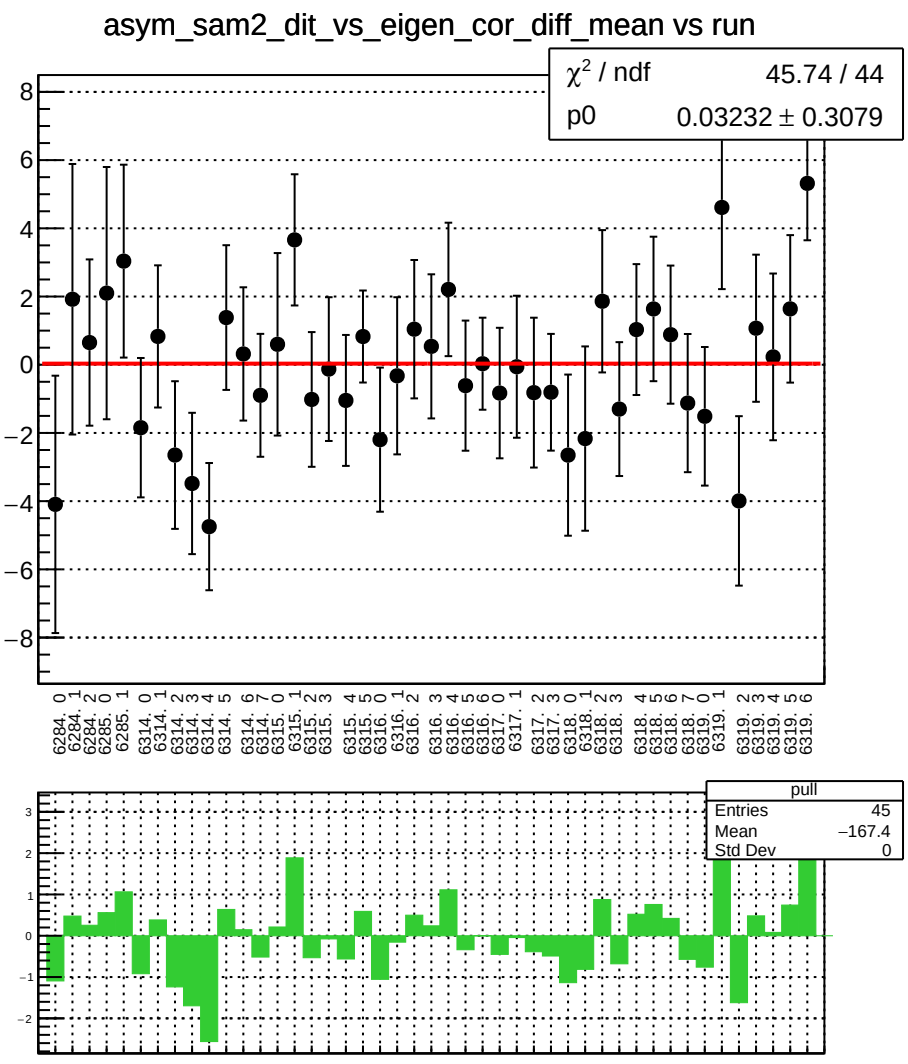
asym_sam2_dit_vs_cor_diff_mean vs run

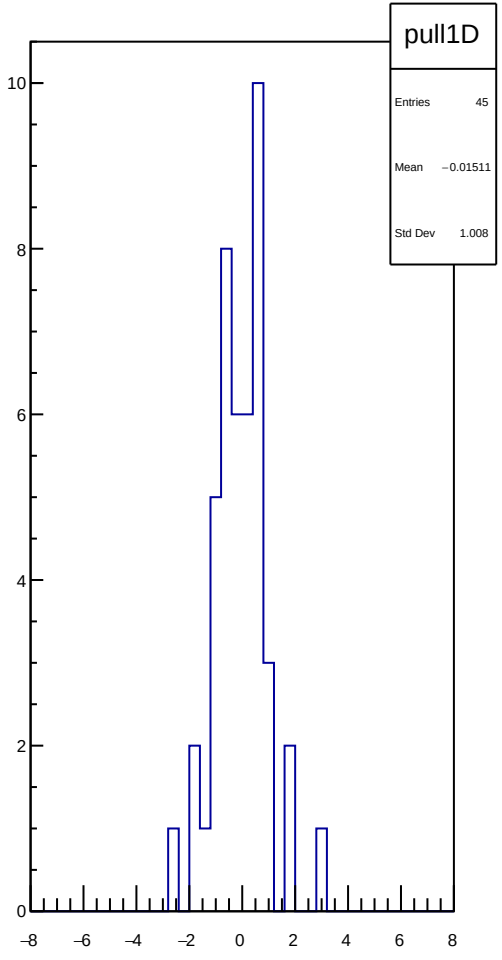


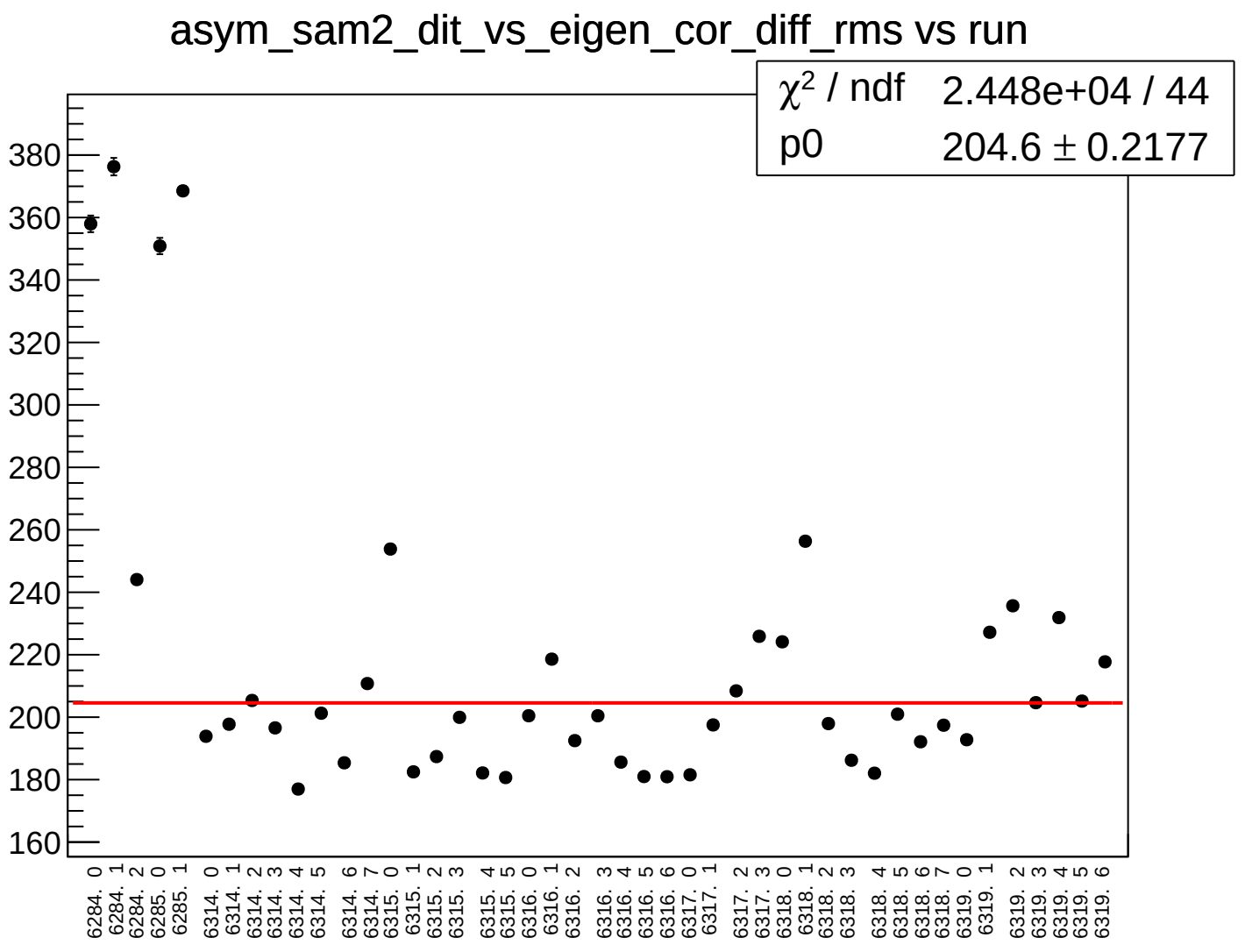


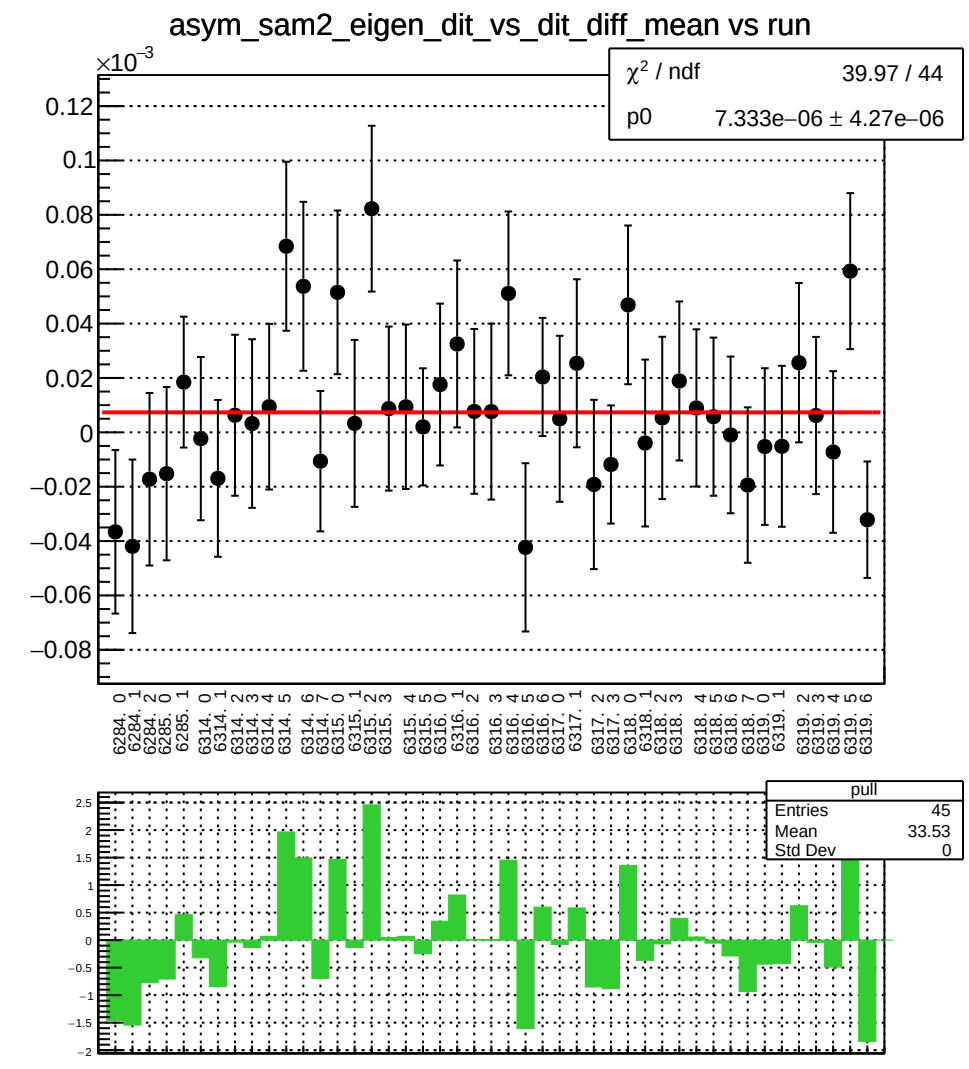


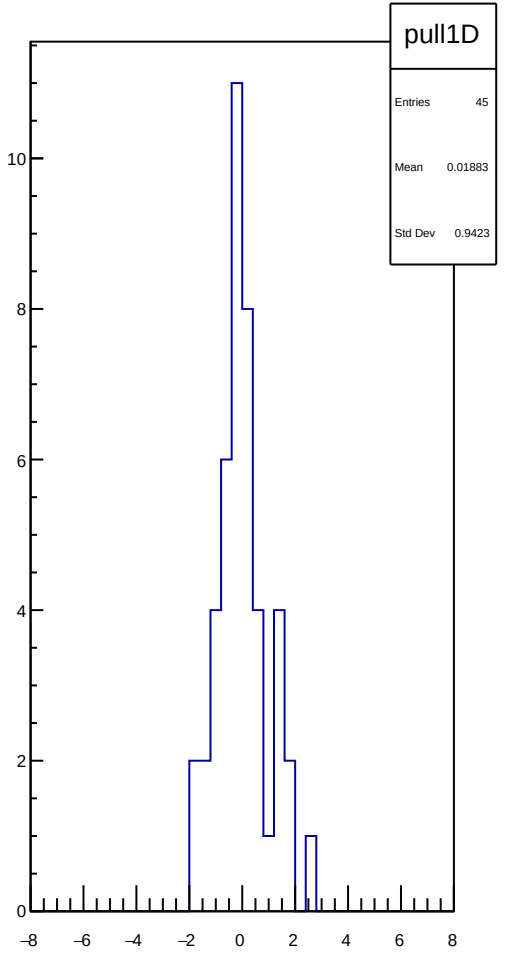

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 44
p0 204.6 ± 0.2177
380
360
340
320
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

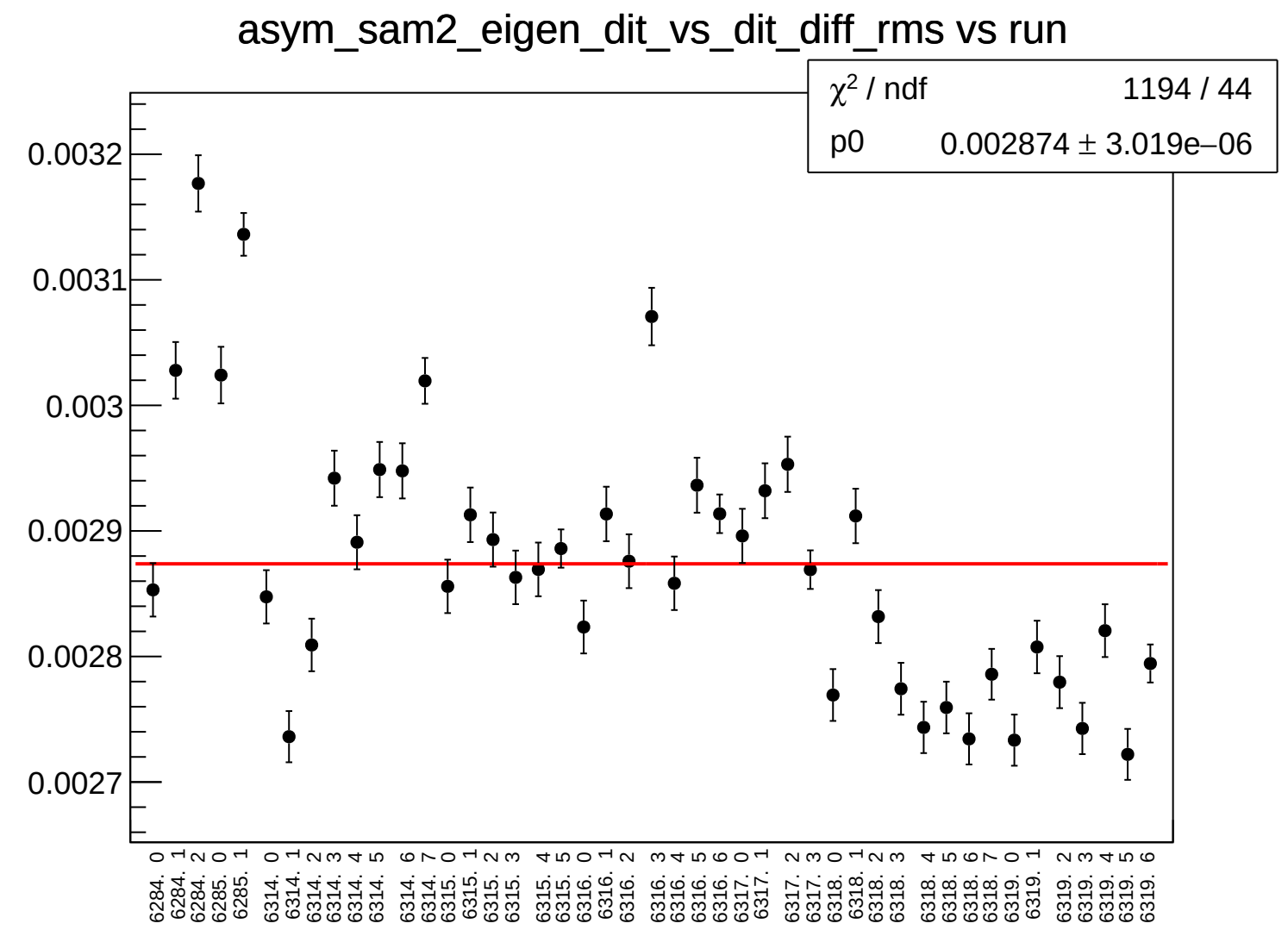

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.74 / 44
p0 0.03232 ± 0.3079
pull
Entries 45
Mean −167.4
Std Dev 0


pull1D
Entries 45
Mean −0.01511
Std Dev 1.008

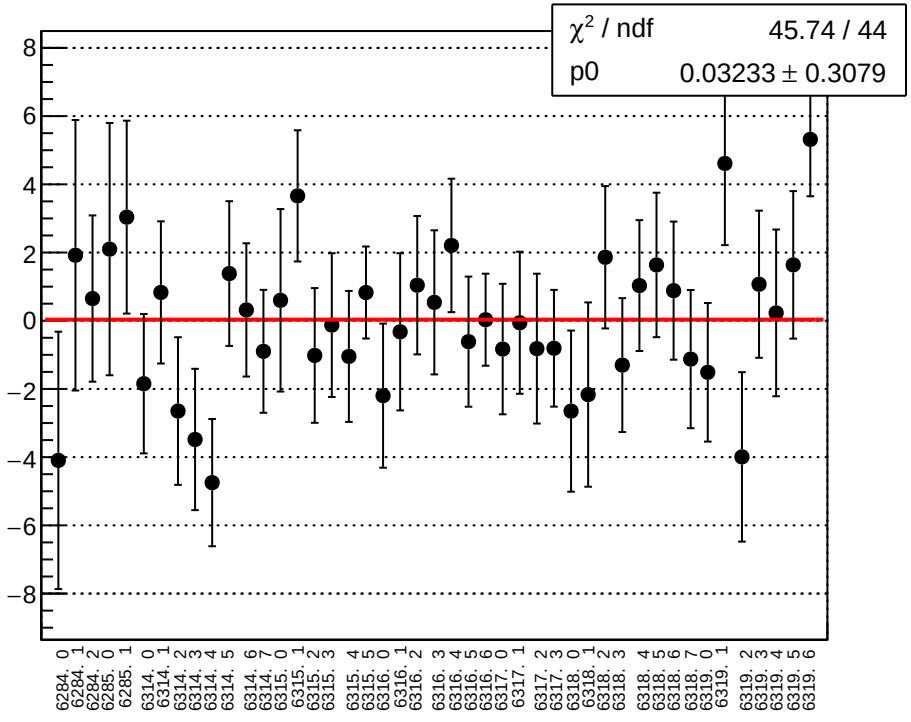

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 44
p0 204.6 ± 0.2177
380
360
340
320
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

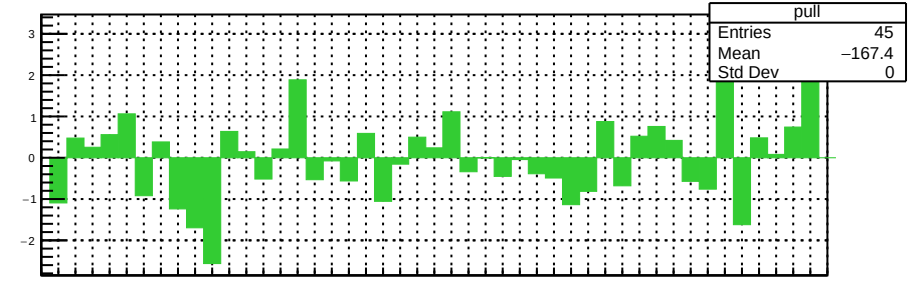

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.97 / 44
p0 7.333e−06 ± 4.27e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

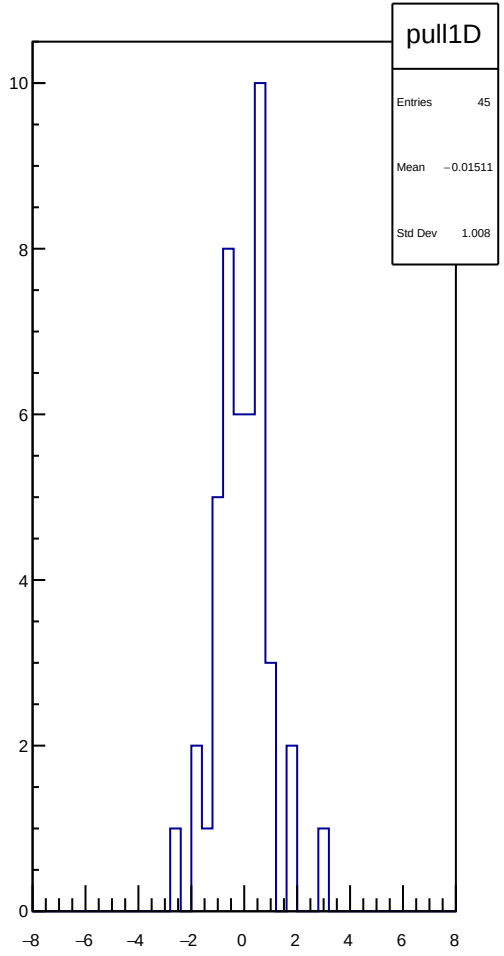

pull1D
Entries 45
Mean 0.01883
Std Dev 0.9423
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

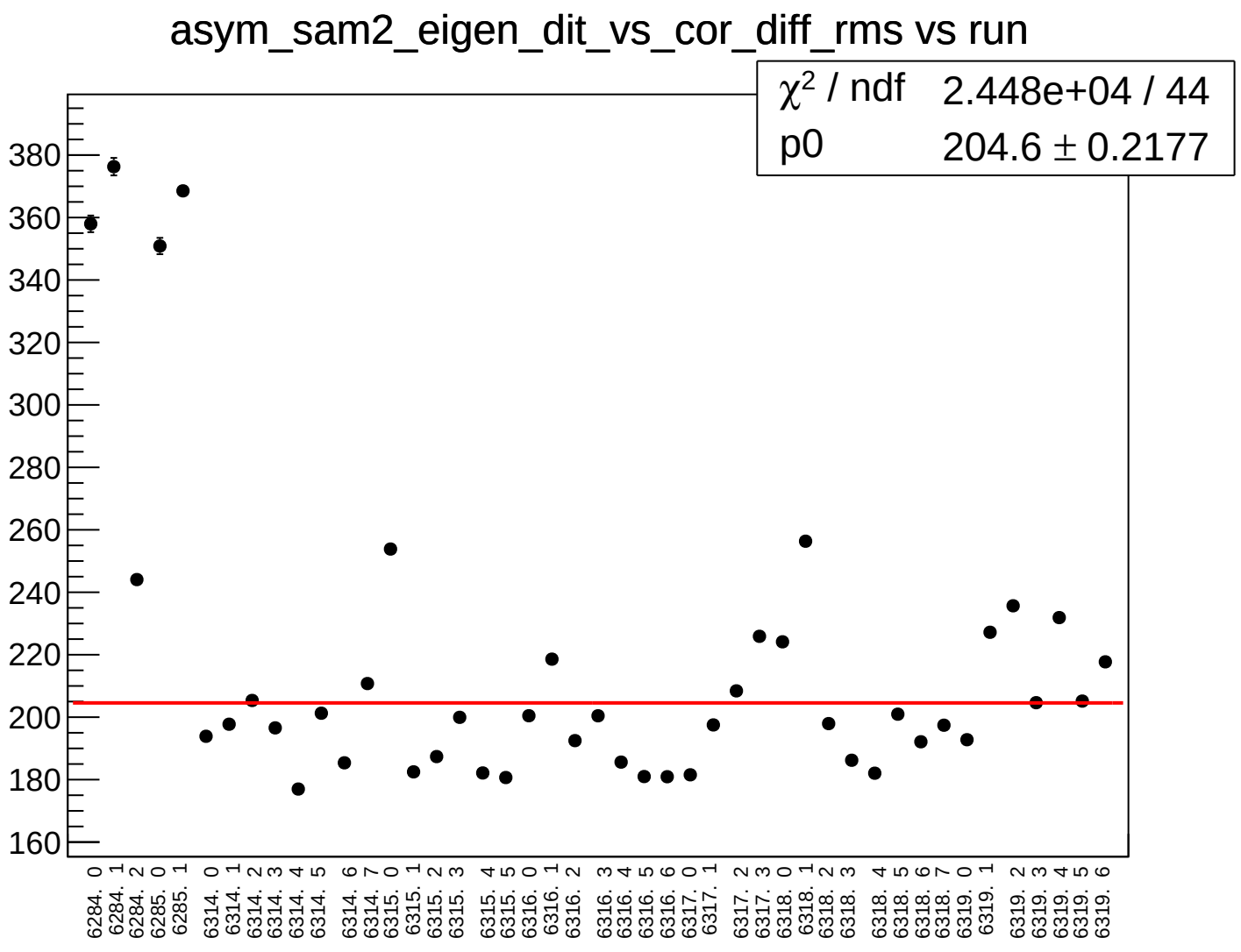

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1194 / 44
p0 0.002874 ± 3.019e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

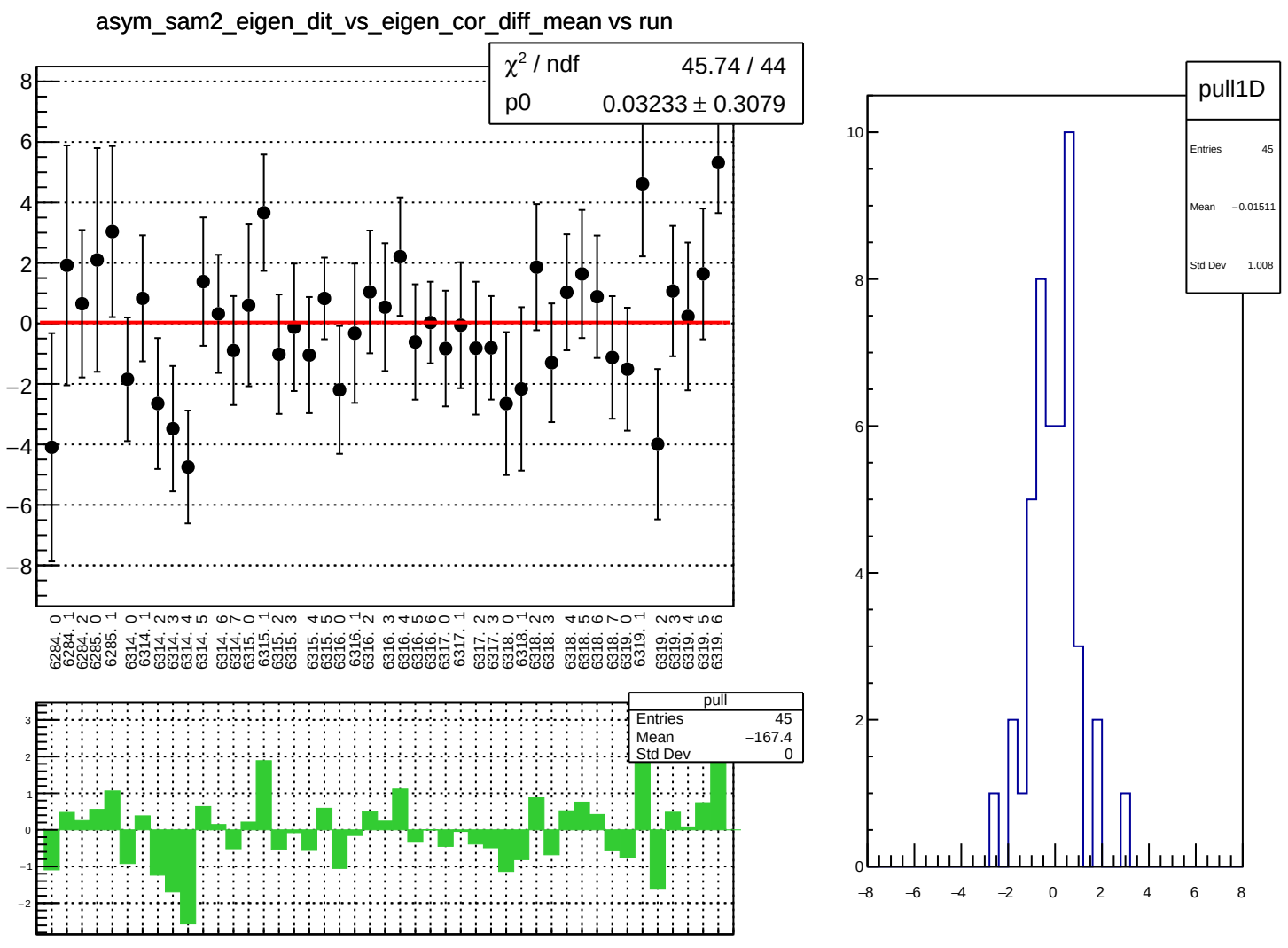
asym_sam2_eigen_dit_vs_cor_diff_mean vs run

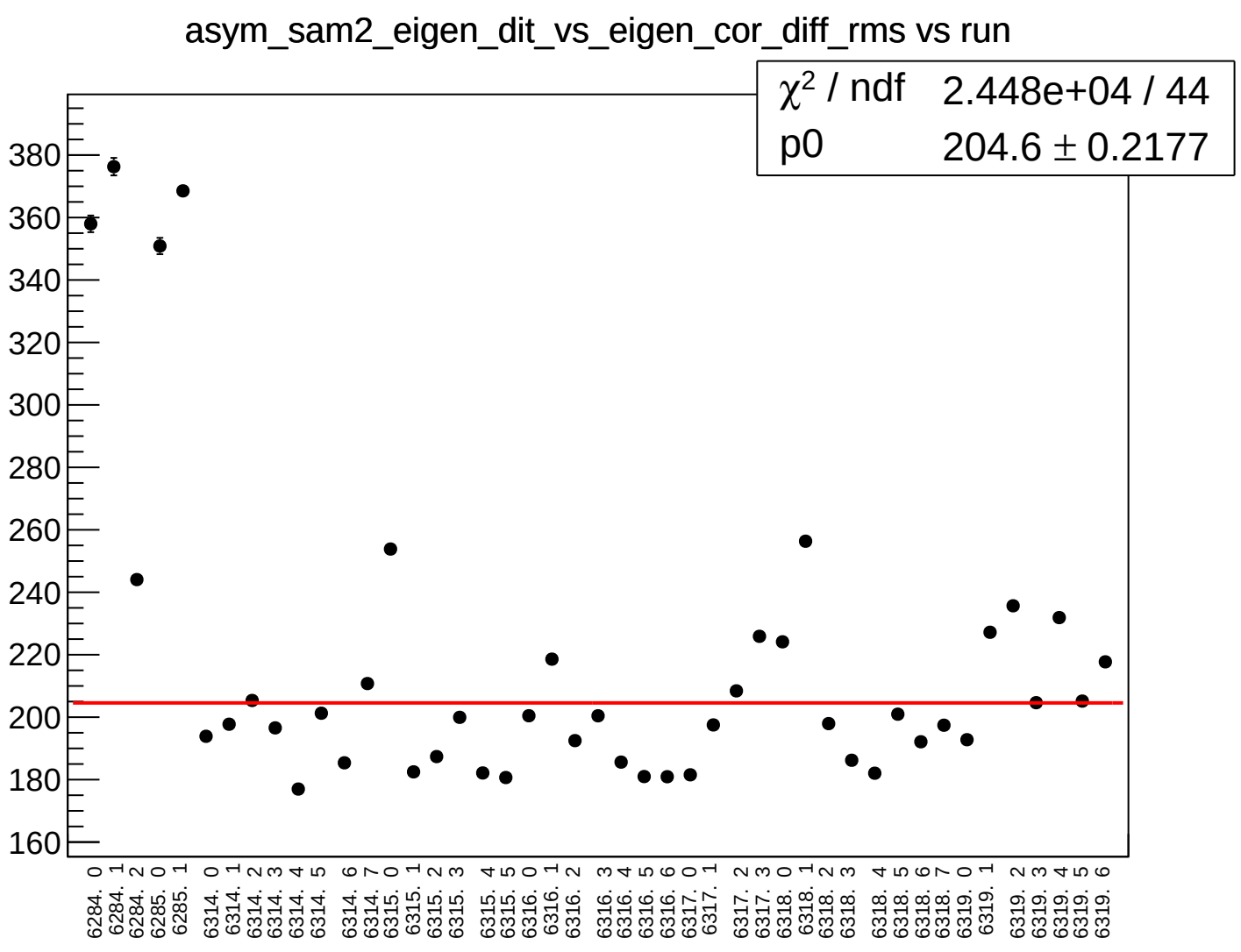


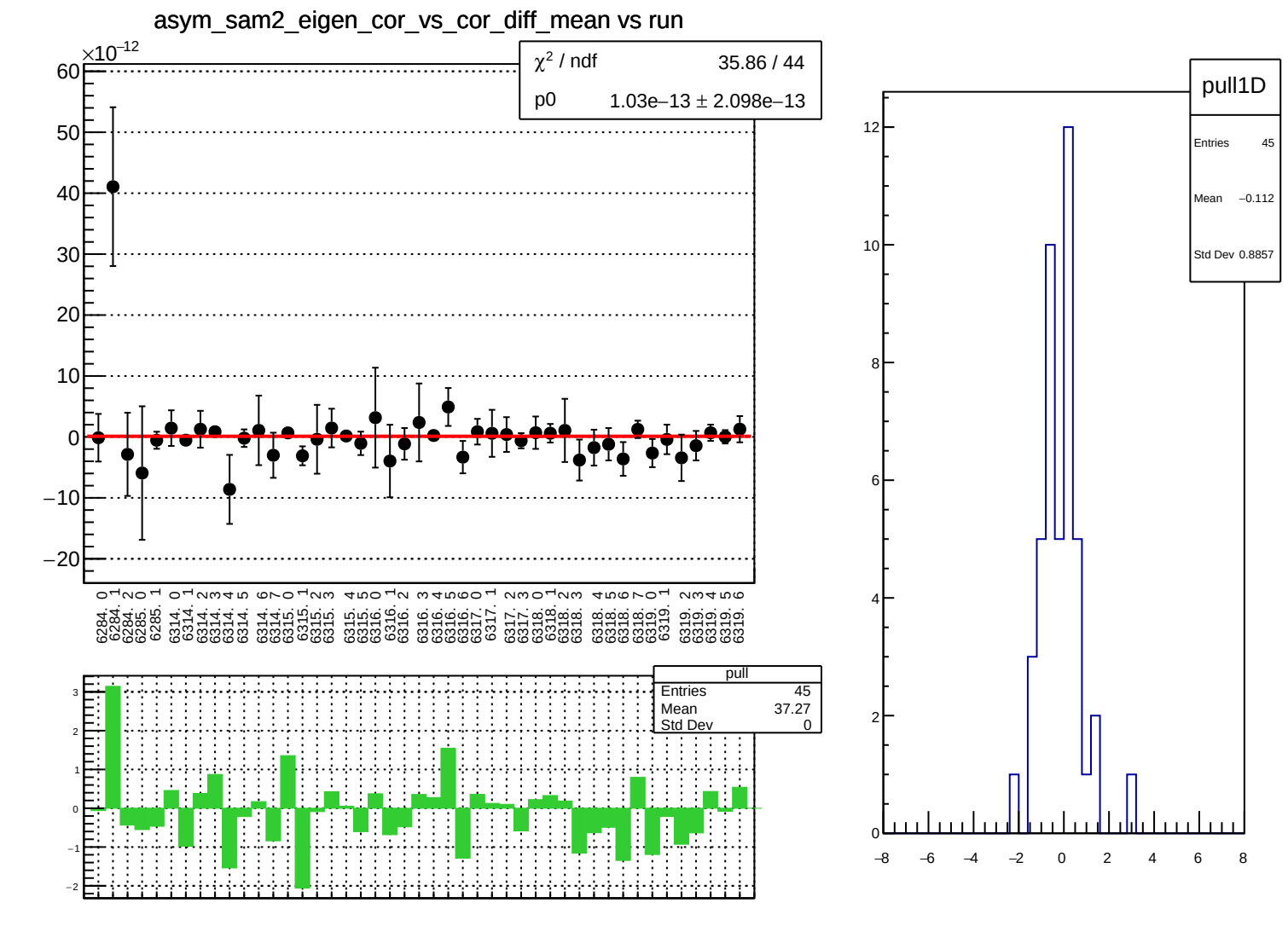


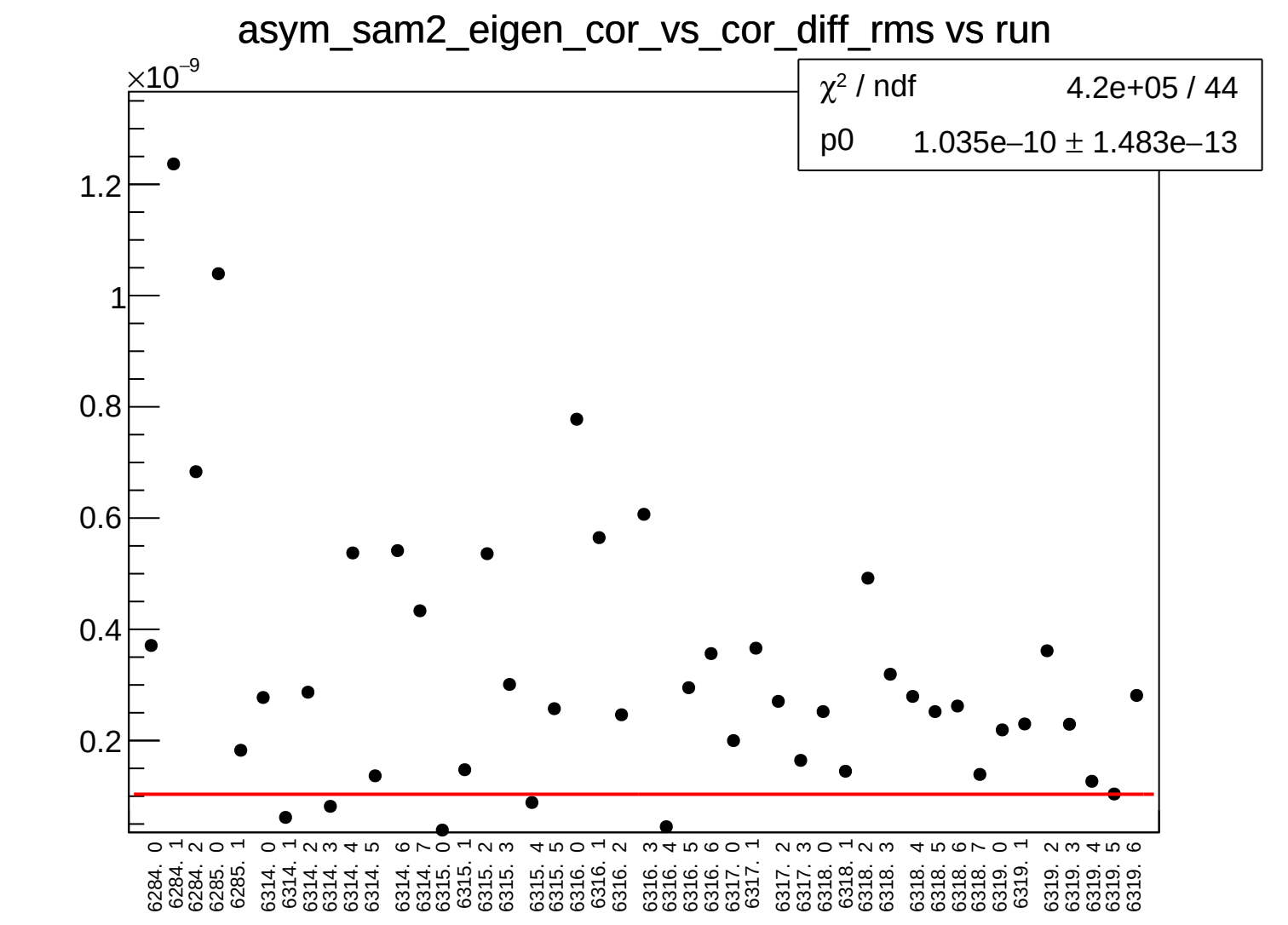


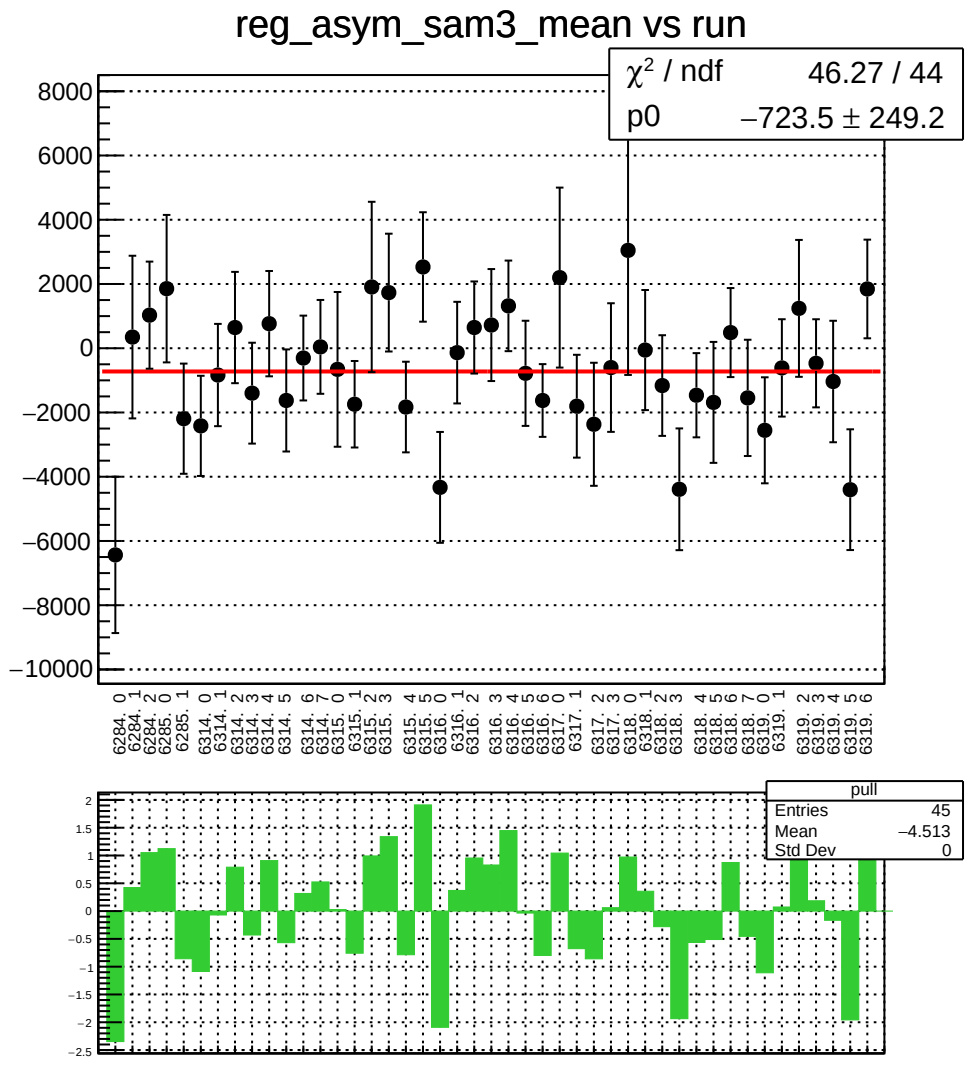

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 44
p0 204.6 ± 0.2177
380
360
340
320
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

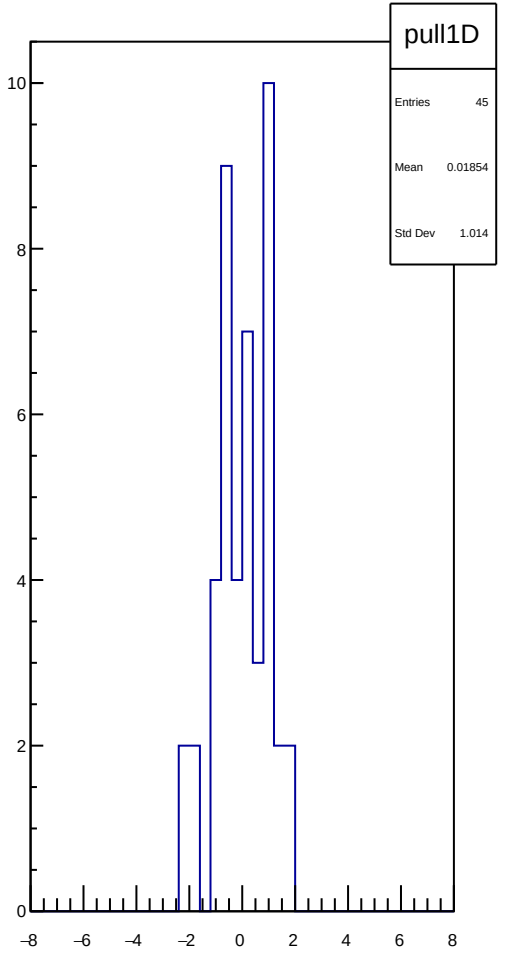

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.74 / 44
p0 0.03233 ± 0.3079
pull
Entries 45
Mean −167.4
Std Dev 0
pull1D
Entries 45
Mean −0.01511
Std Dev 1.008

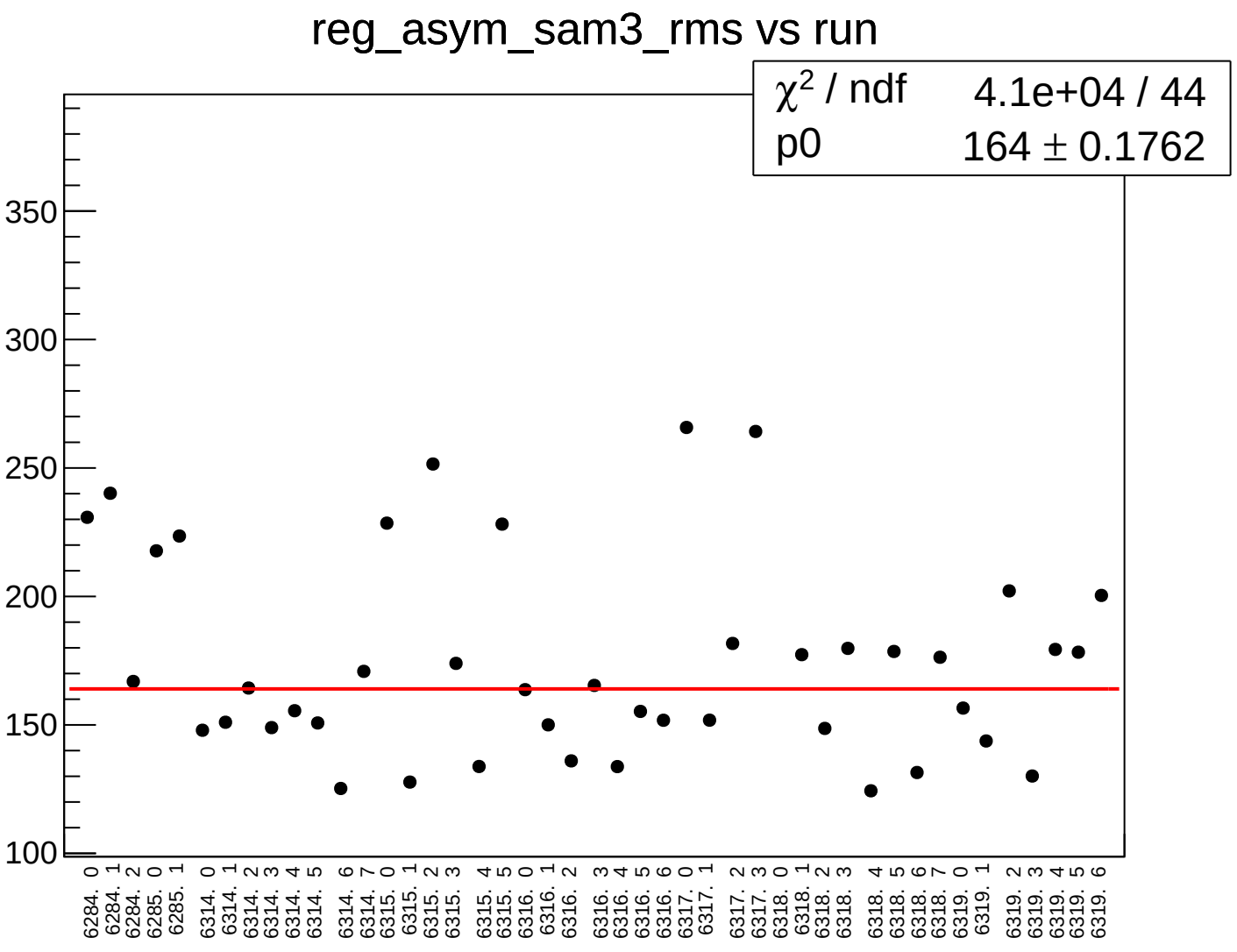

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 44
p0 204.6 ± 0.2177
380
360
340
320
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

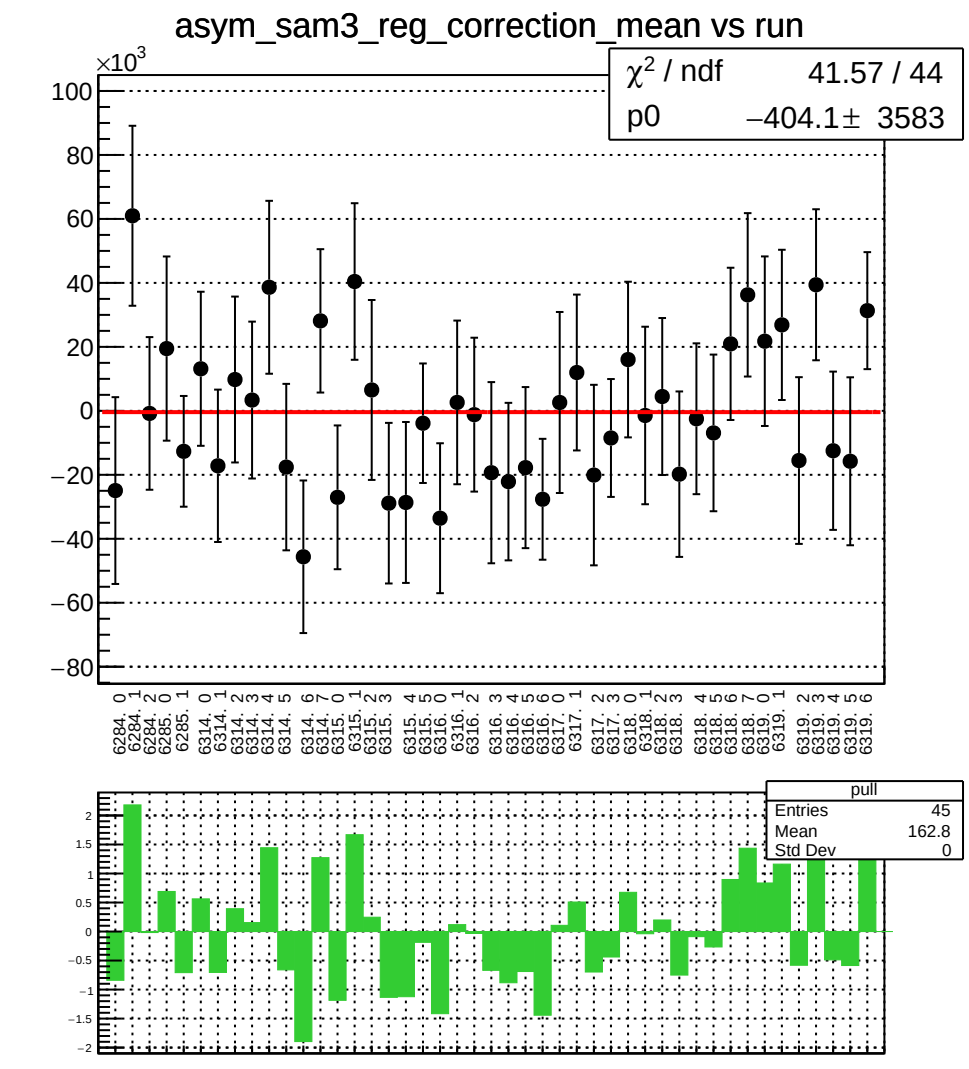

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.86 / 44
p0 1.03e−13 ± 2.098e−13
60
50
40
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.112
Std Dev 0.8857
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

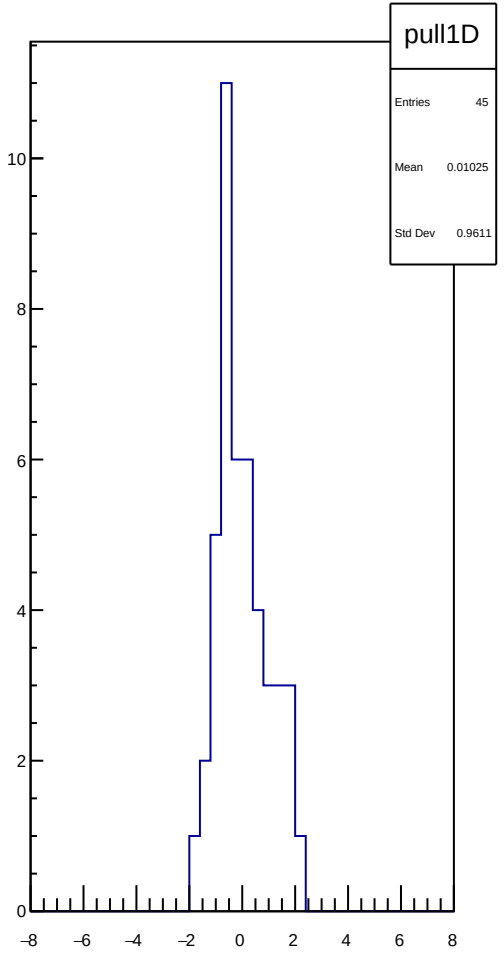

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.2e+05 / 44
p0 1.035e−10 ± 1.483e−13
1.2
1
0.8
0.6
0.4
0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

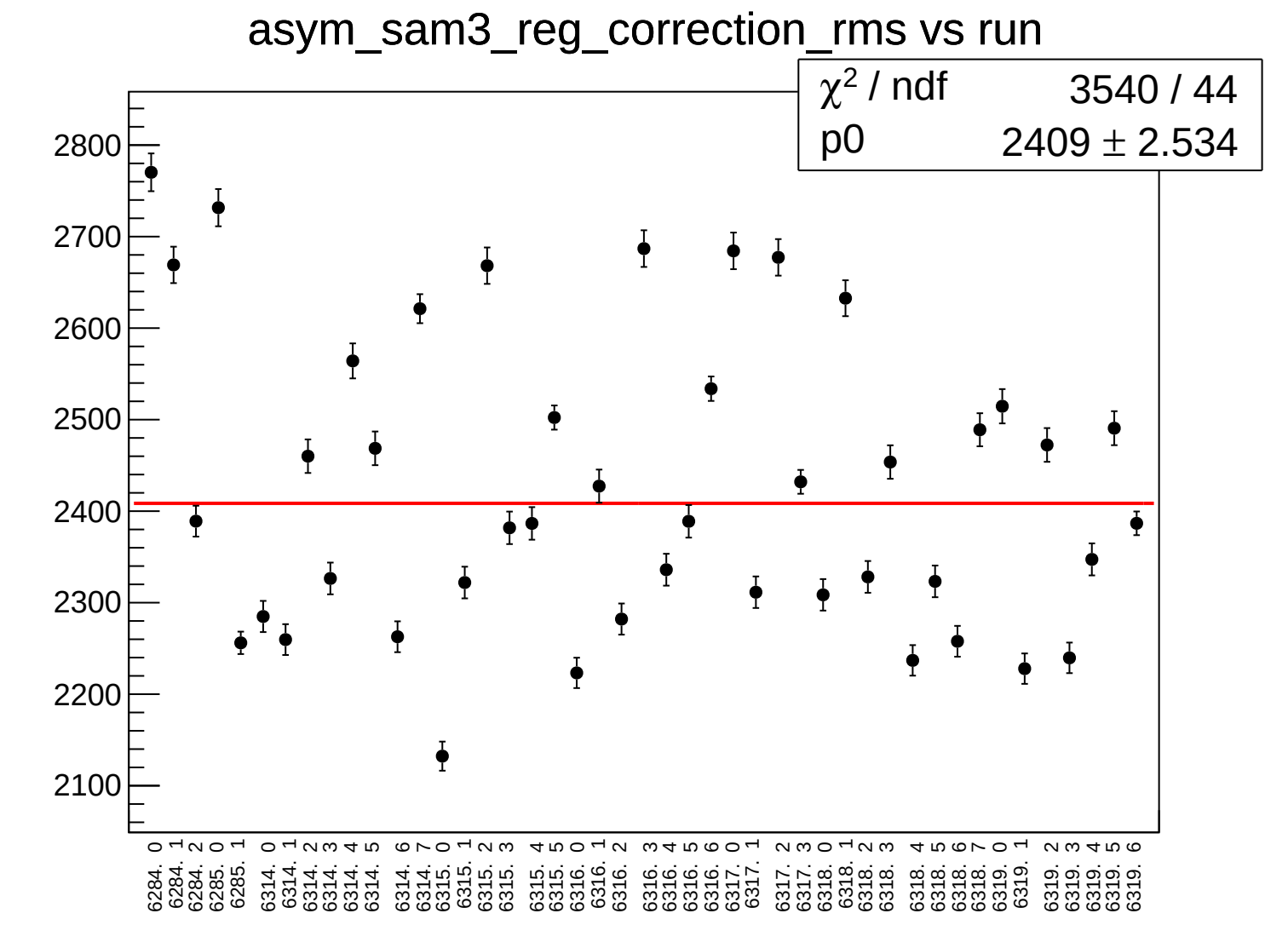

reg_asym_sam3_mean vs run
χ² / ndf 46.27 / 44
p0 −723.5 ± 249.2
pull
Entries 45
Mean −4.513
Std Dev 0

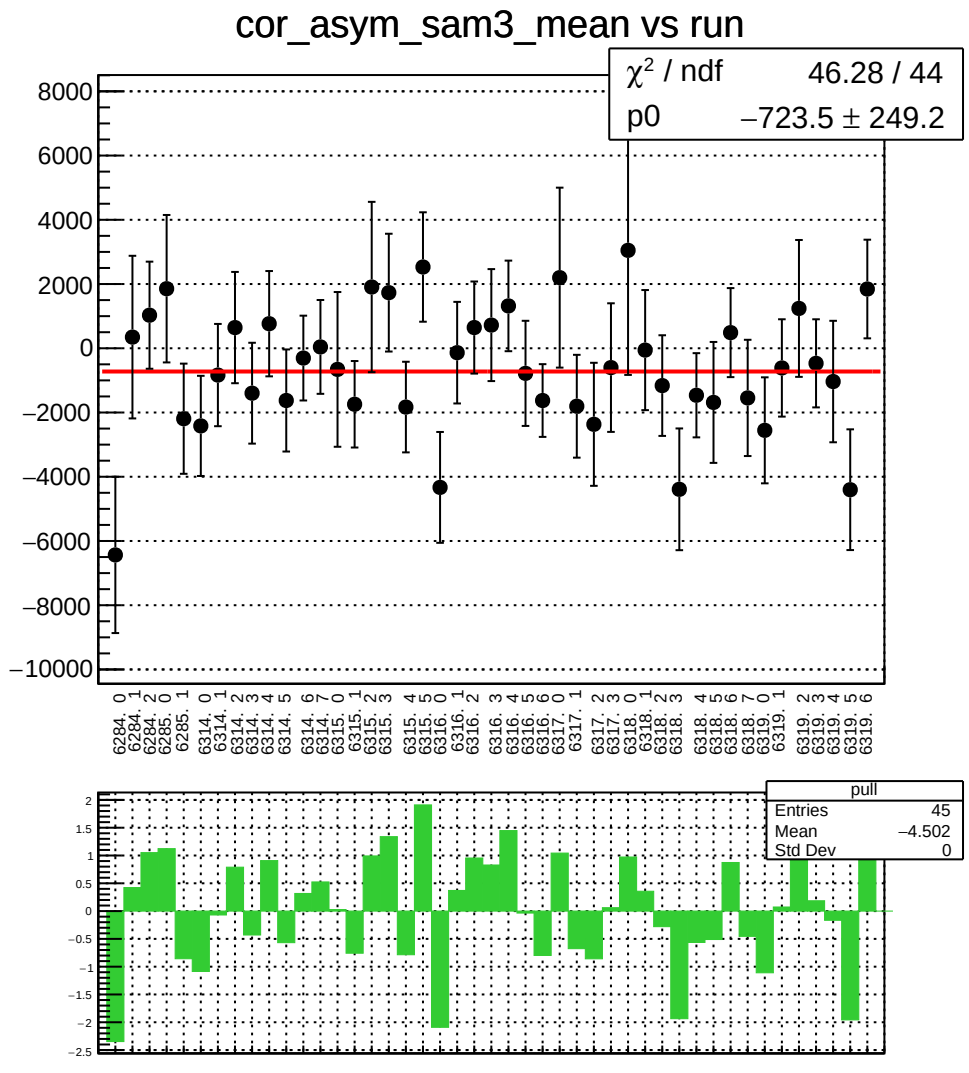

pull1D
Entries 45
Mean 0.01854
Std Dev 1.014

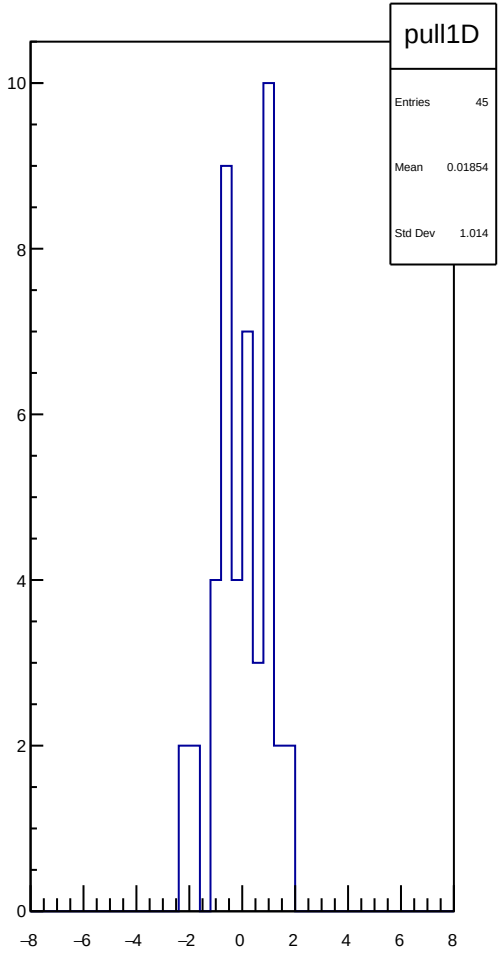

reg_asym_sam3_rms vs run
χ² / ndf 4.1e+04 / 44
p0 164 ± 0.1762
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

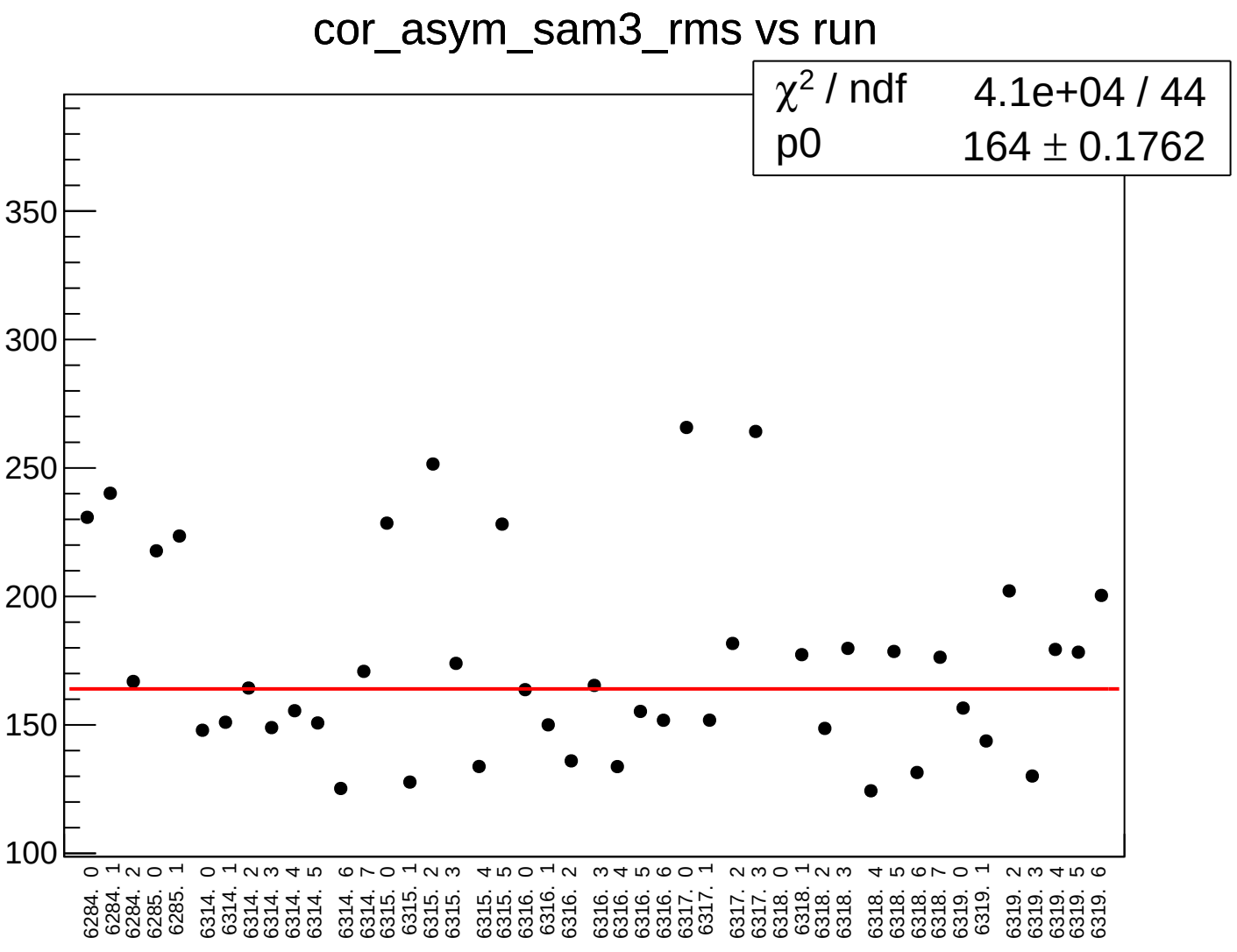

asym_sam3_reg_correction_mean vs run
χ² / ndf 41.57 / 44
p0 −404.1± 3583
×10³
pull
Entries 45
Mean 162.8
Std Dev 0

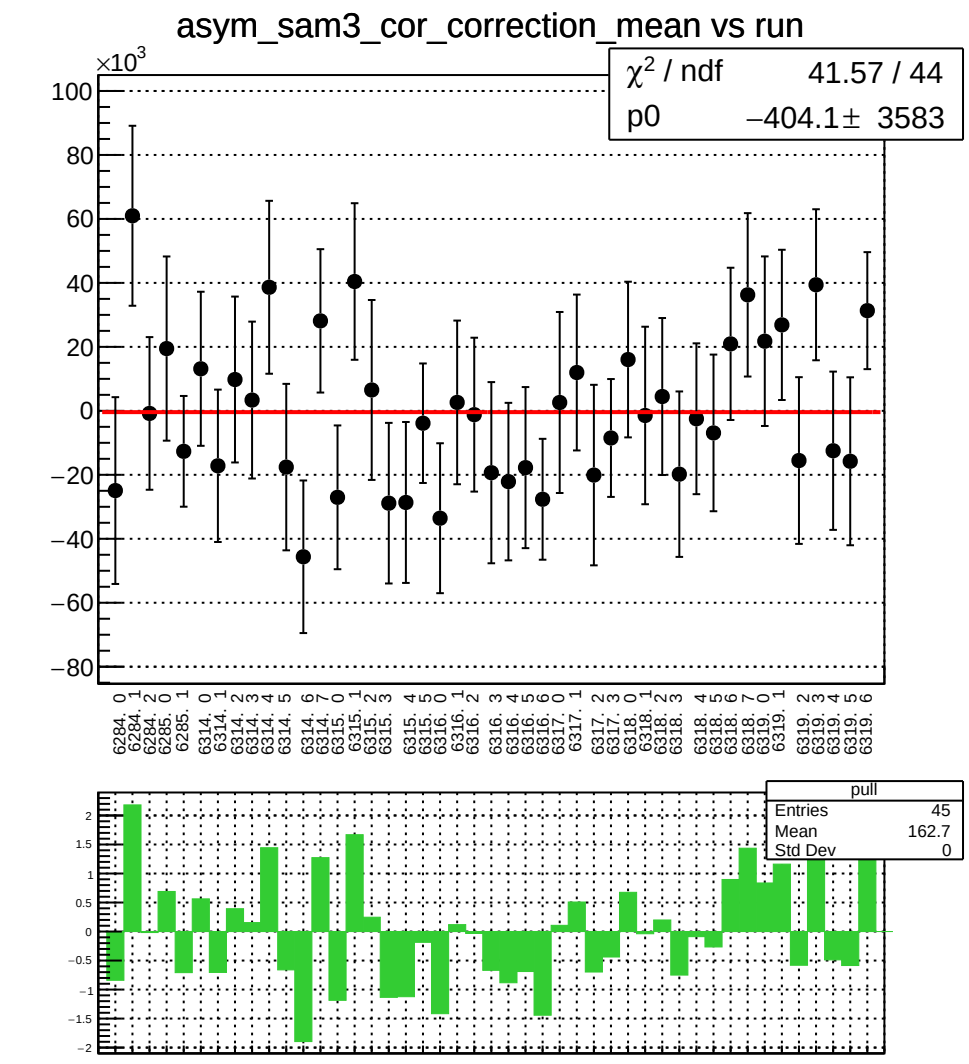

pull1D
Entries 45
Mean 0.01025
Std Dev 0.9611

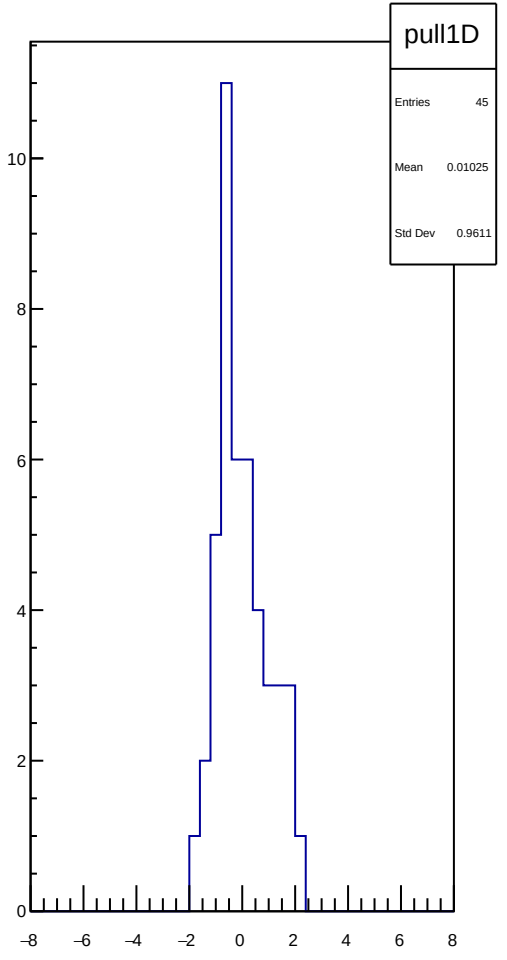

asym_sam3_reg_correction_rms vs run
χ² / ndf 3540 / 44
p0 2409 ± 2.534
2800
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

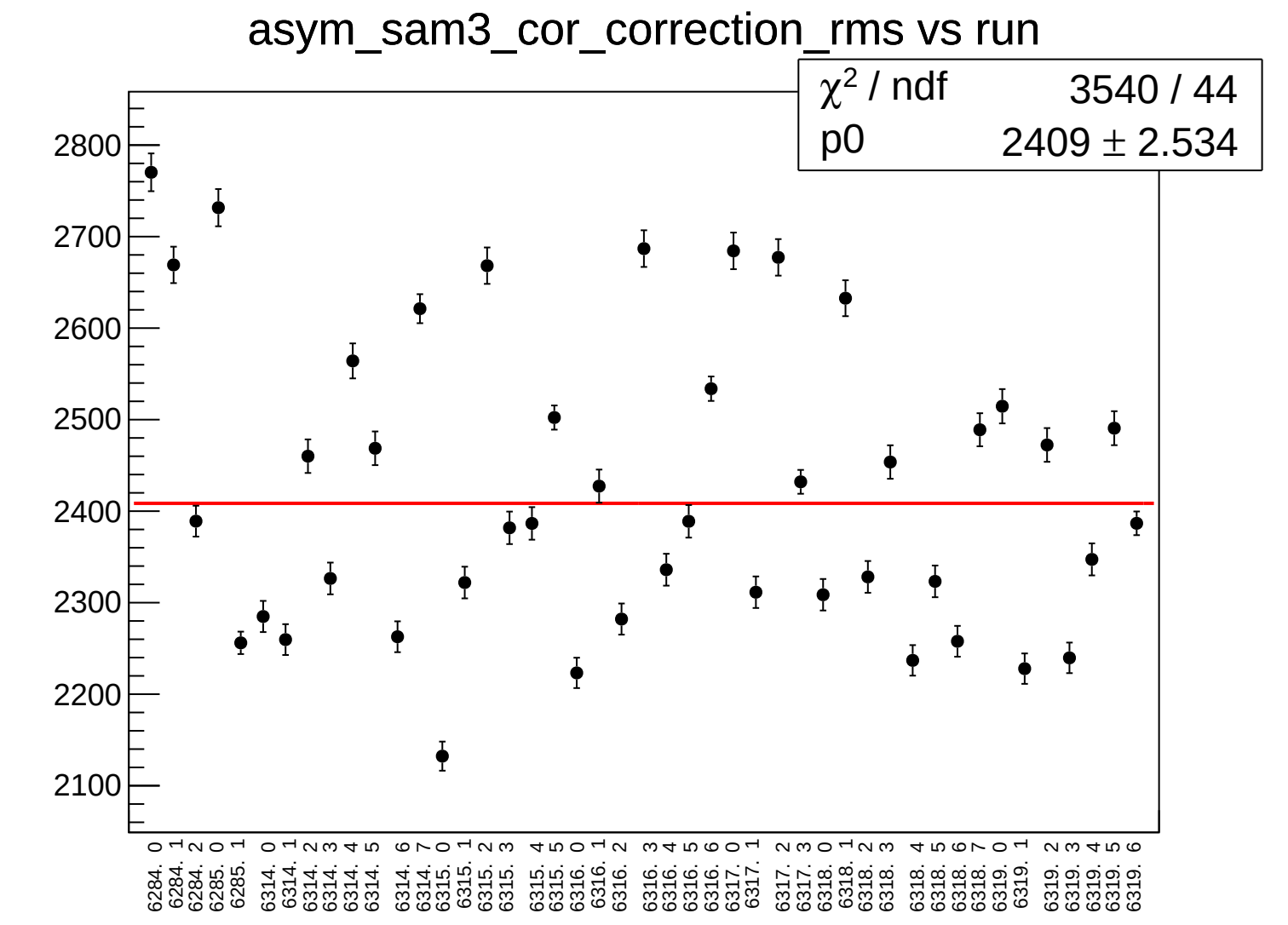

cor_asym_sam3_mean vs run
χ² / ndf 46.28 / 44
p0 −723.5 ± 249.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.502
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

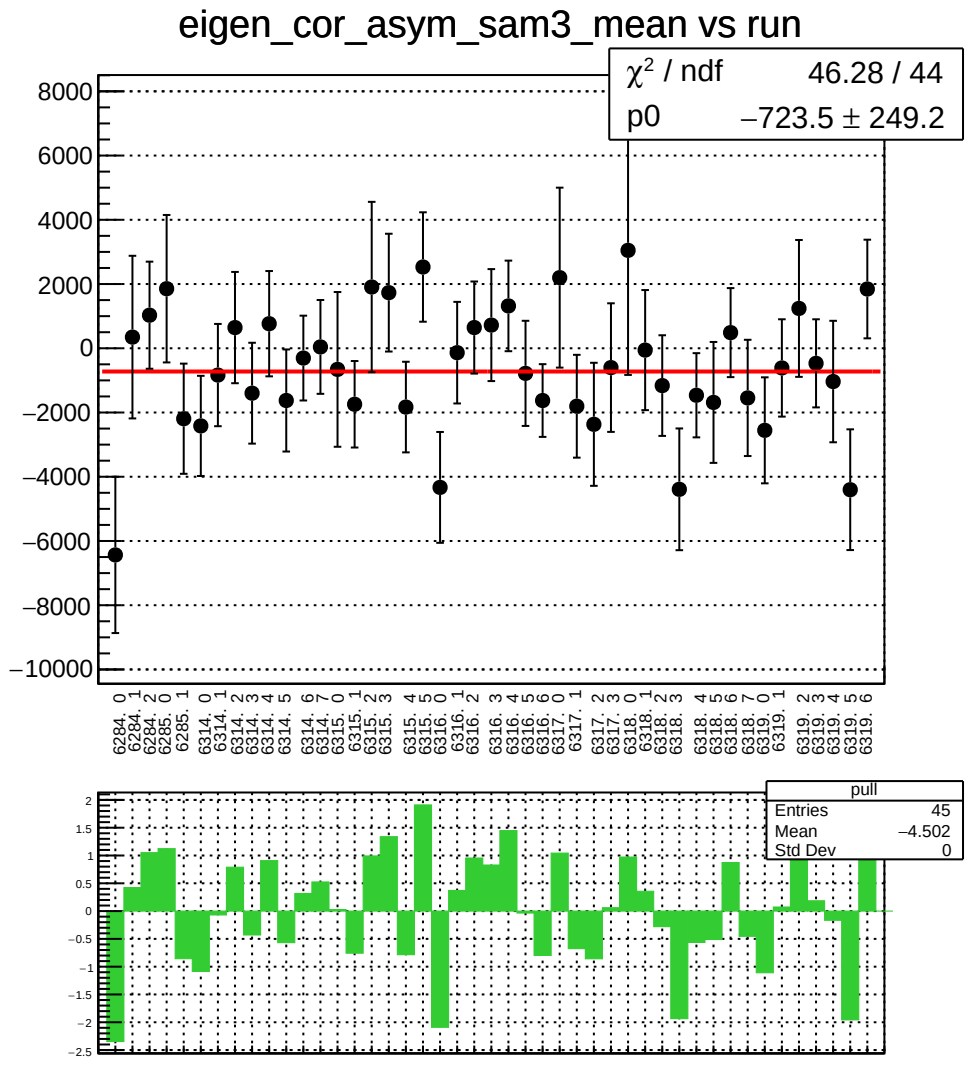

pull1D
Entries 45
Mean 0.01854
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

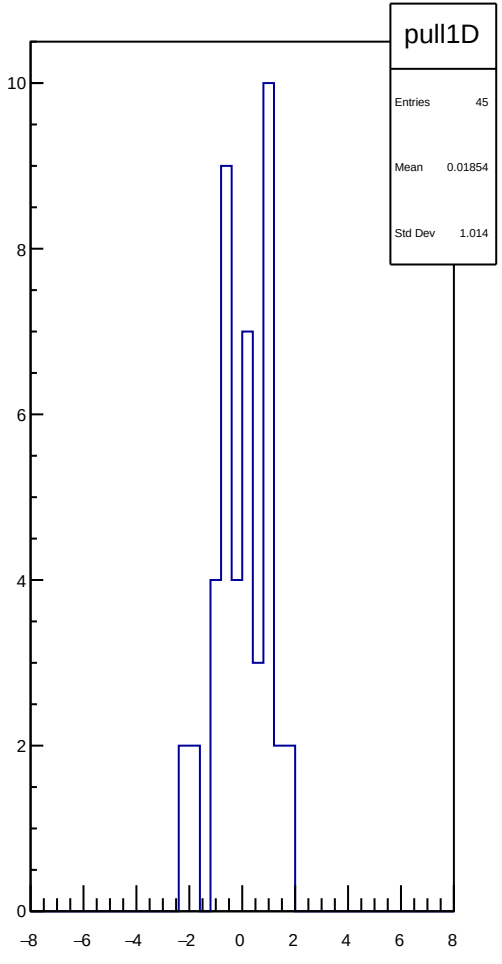

cor_asym_sam3_rms vs run
χ² / ndf 4.1e+04 / 44
p0 164 ± 0.1762
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

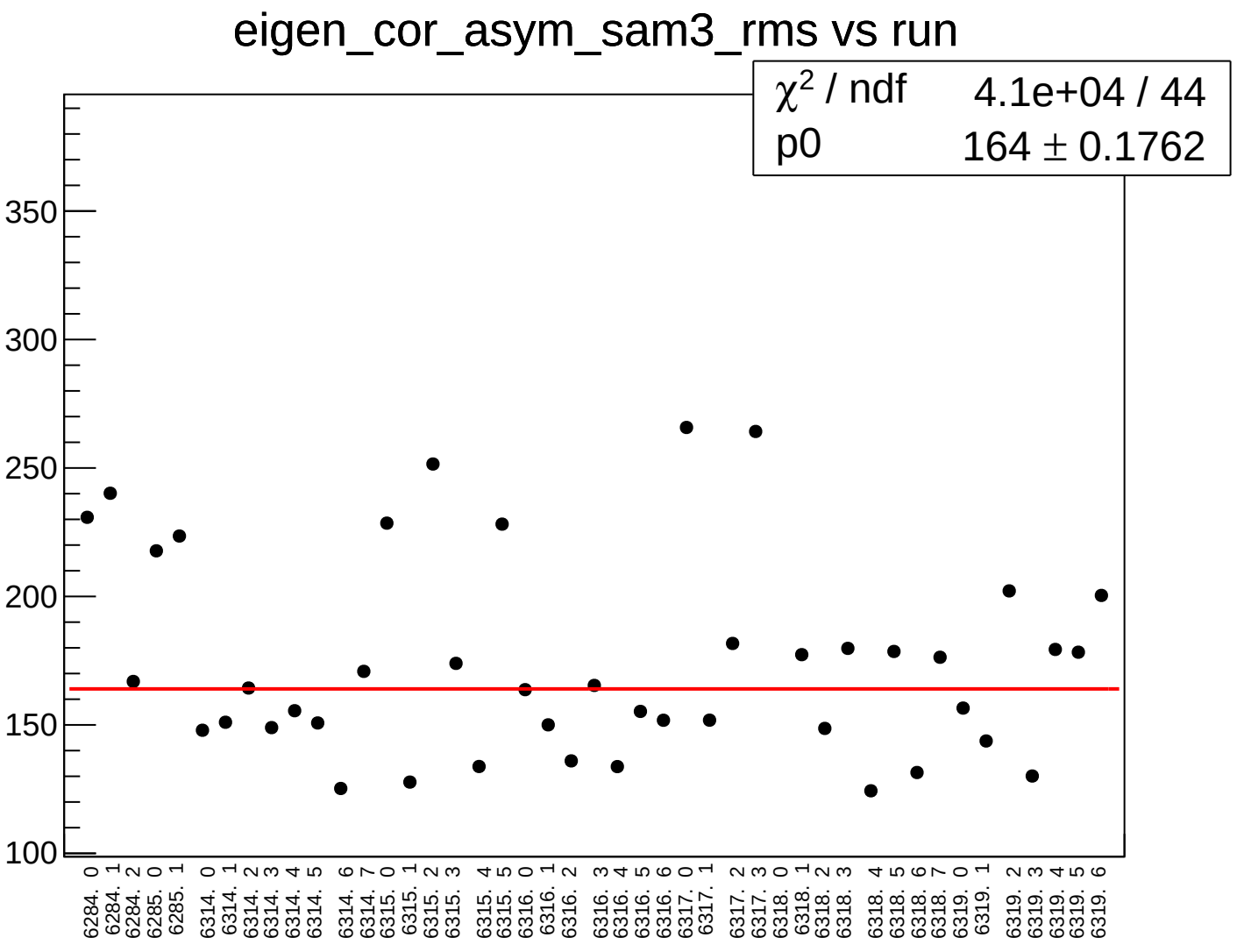

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 41.57 / 44
p0 −404.1± 3583
pull
Entries 45
Mean 162.7
Std Dev 0

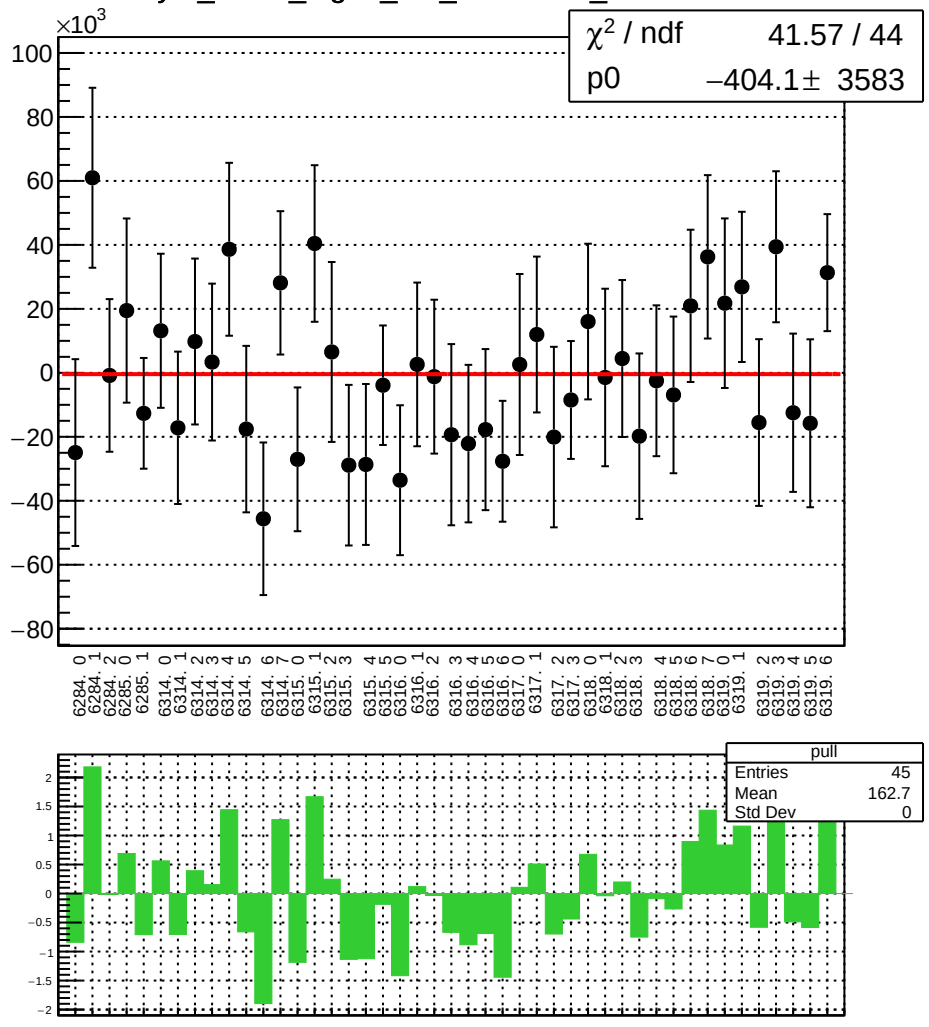

pull1D
Entries 45
Mean 0.01025
Std Dev 0.9611

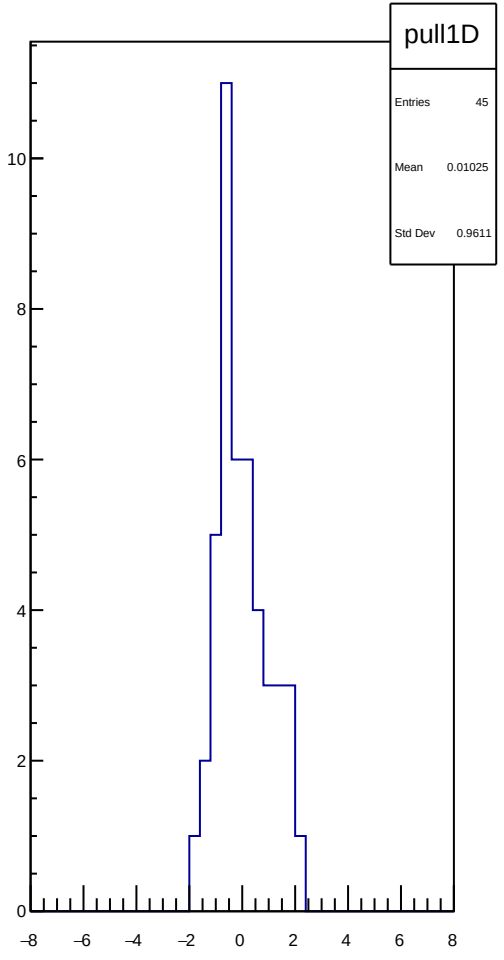

asym_sam3_cor_correction_rms vs run
χ² / ndf 3540 / 44
p0 2409 ± 2.534
2800
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

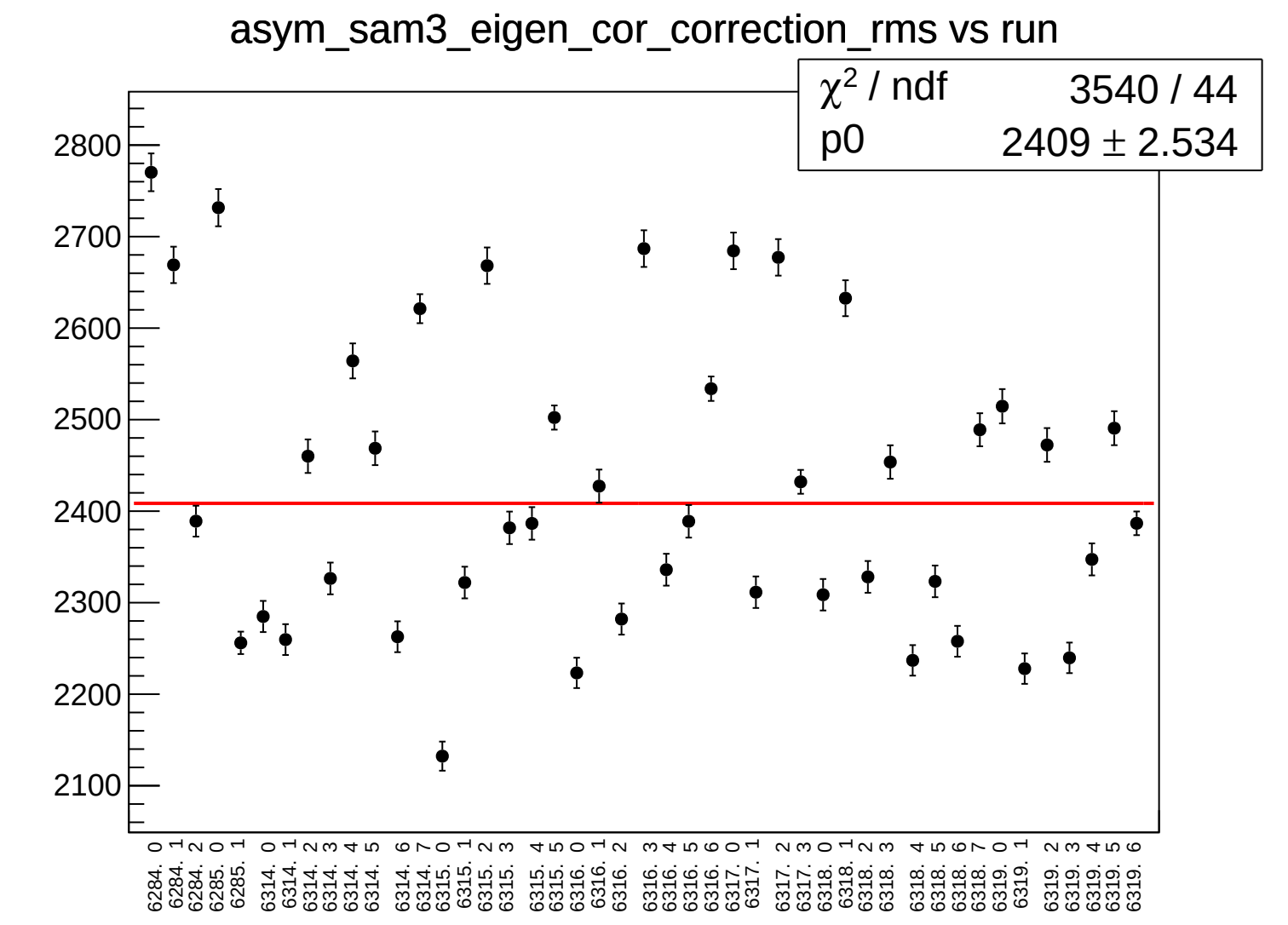

eigen_cor_asym_sam3_mean vs run
χ² / ndf 46.28 / 44
p0 −723.5 ± 249.2
pull
Entries 45
Mean −4.502
Std Dev 0

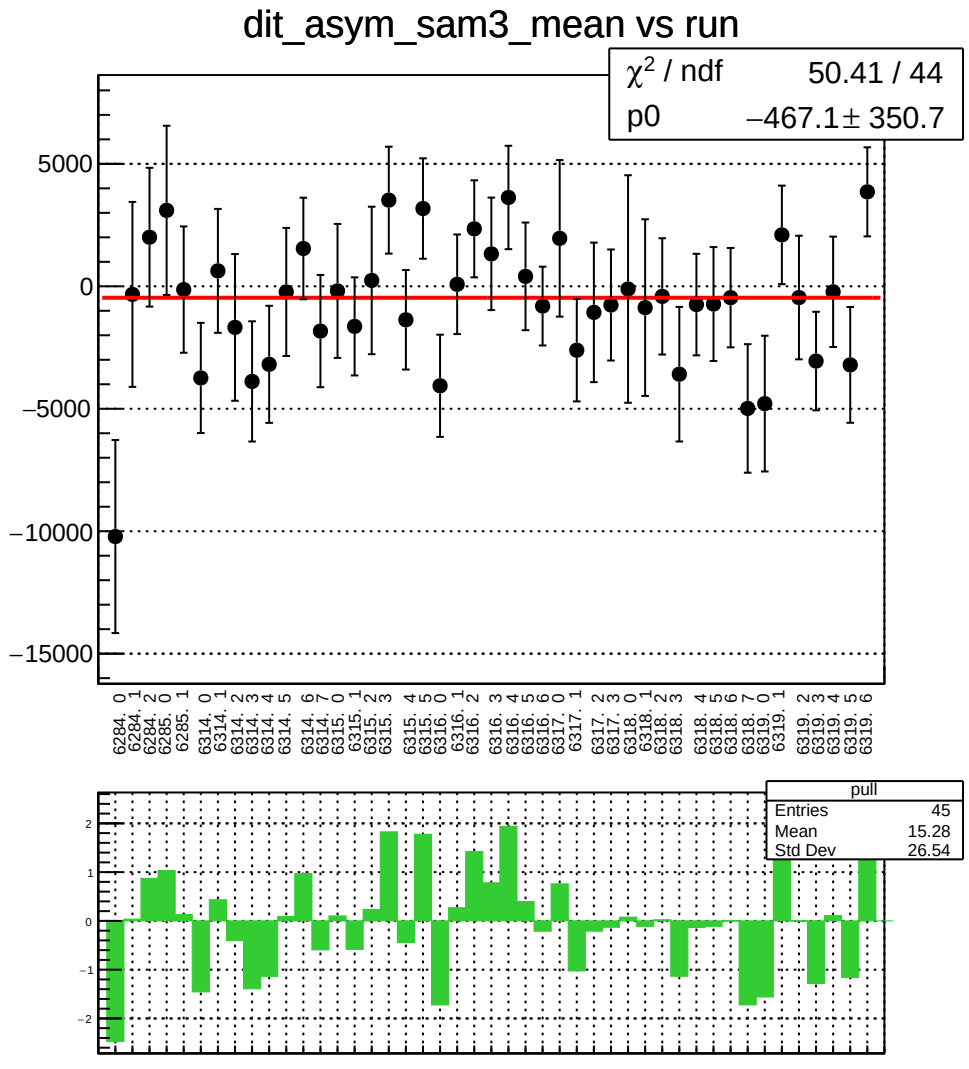

pull1D
Entries 45
Mean 0.01854
Std Dev 1.014

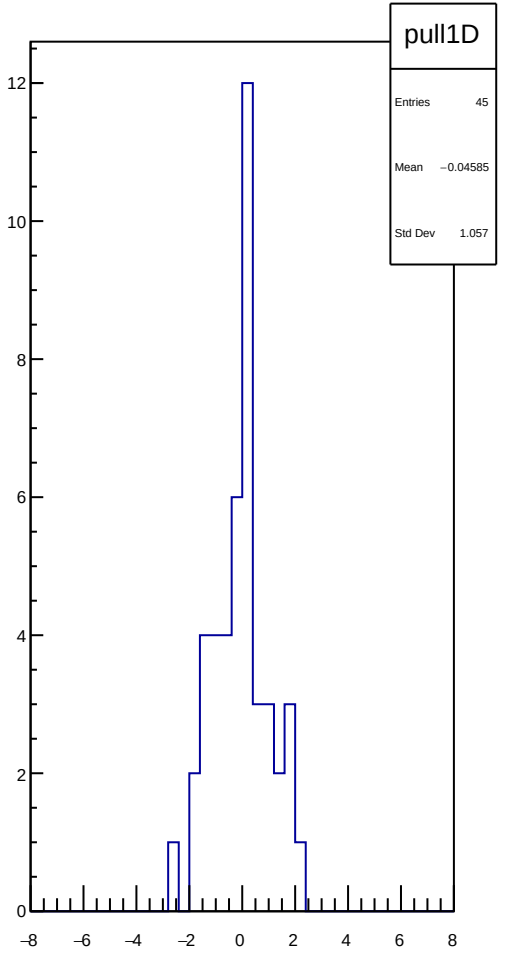

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4.1e+04 / 44
p0 164 ± 0.1762
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

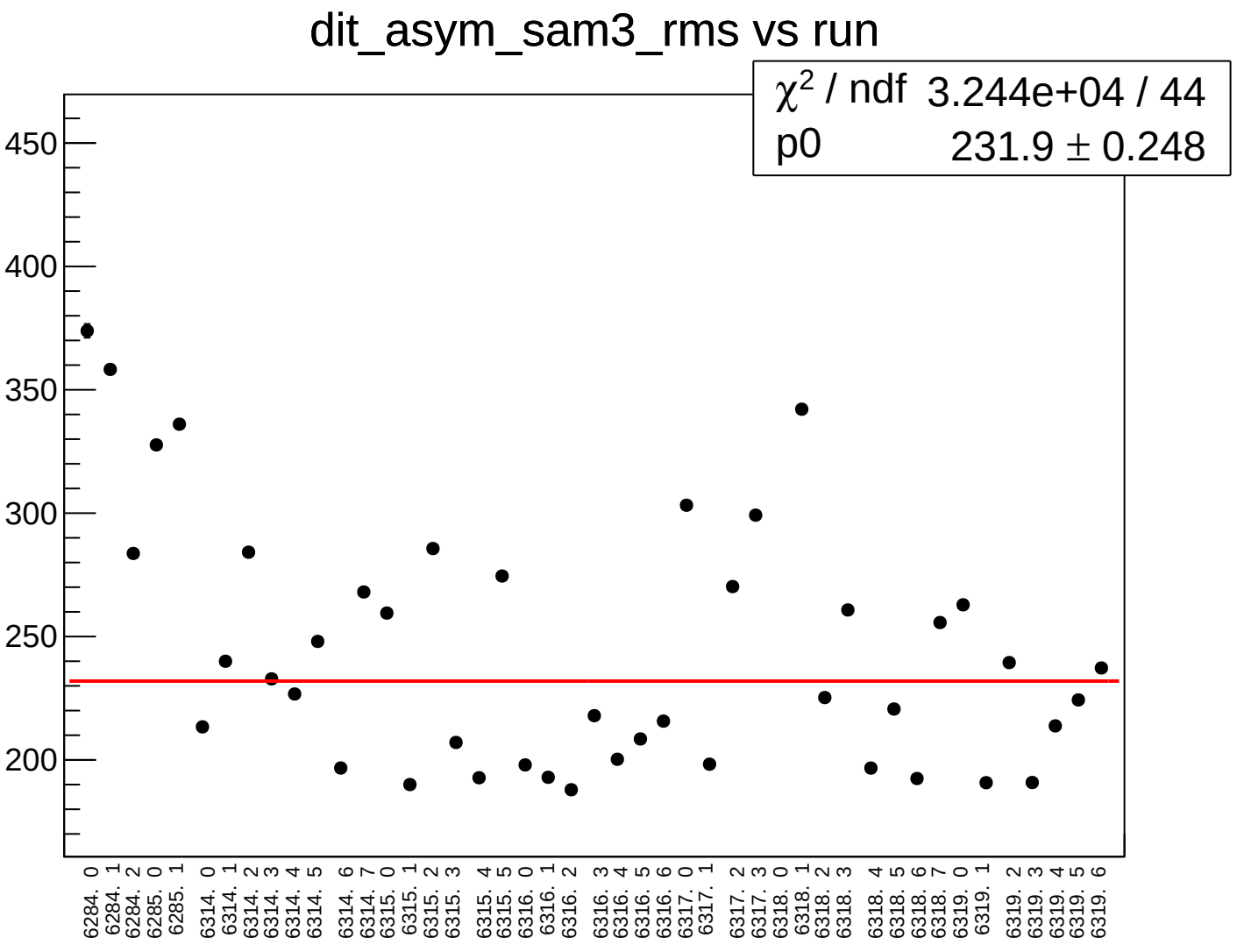

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 41.57 / 44
p0 −404.1± 3583
×10³
pull
Entries 45
Mean 162.7
Std Dev 0

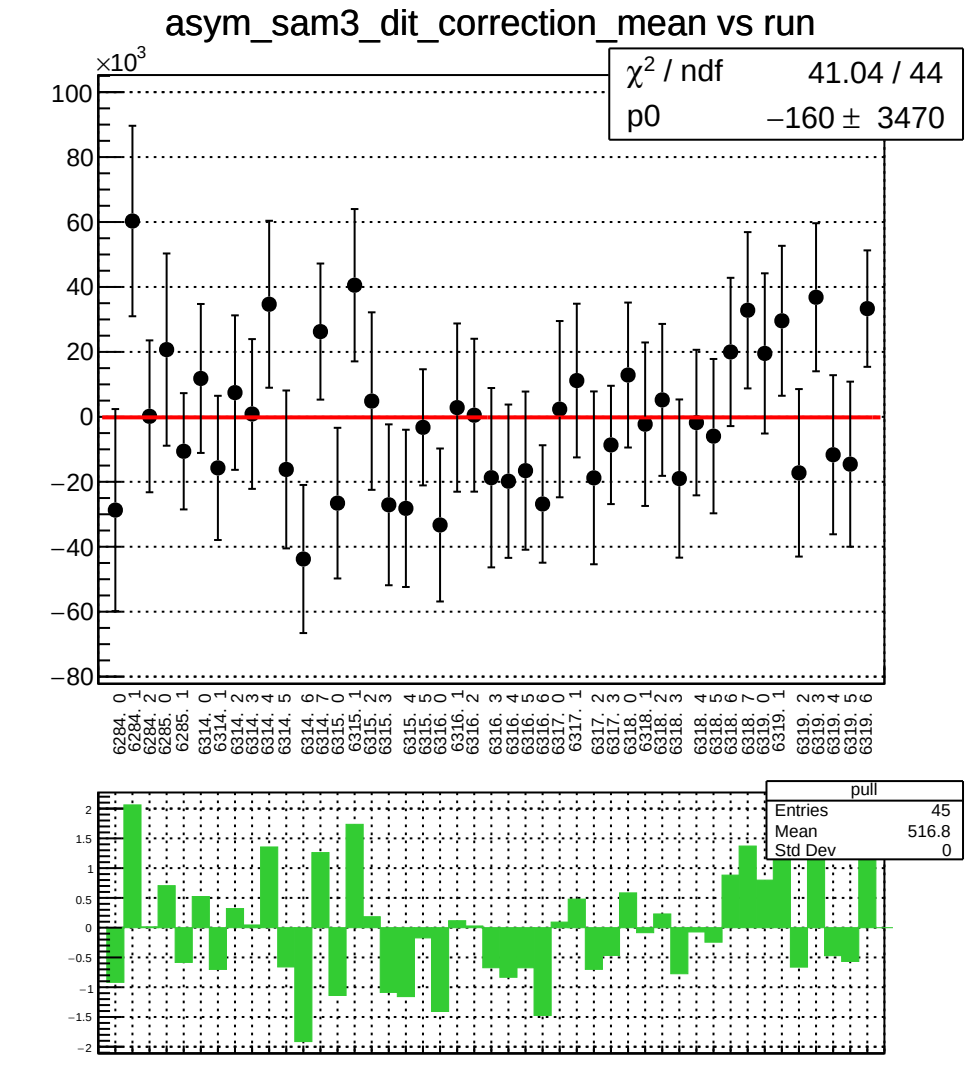

pull1D
Entries 45
Mean 0.01025
Std Dev 0.9611

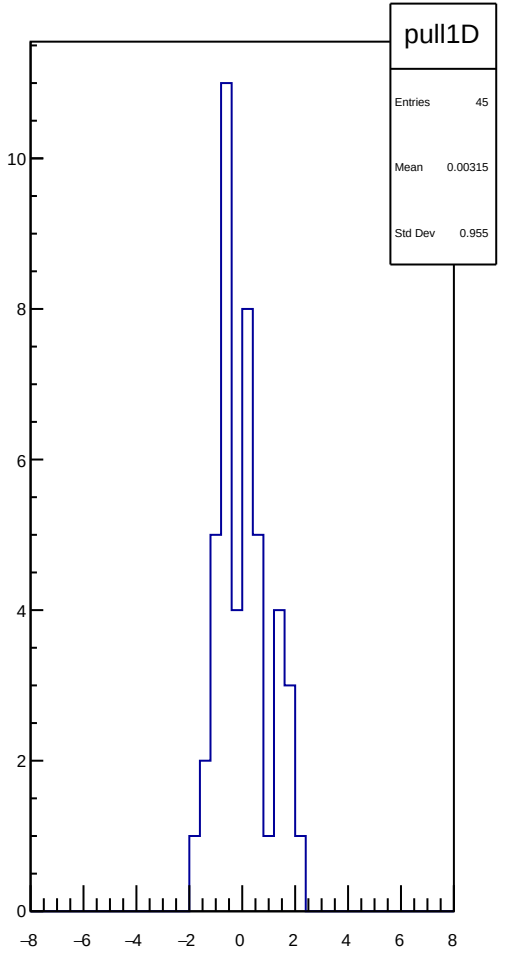

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3540 / 44
p0 2409 ± 2.534
2800
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

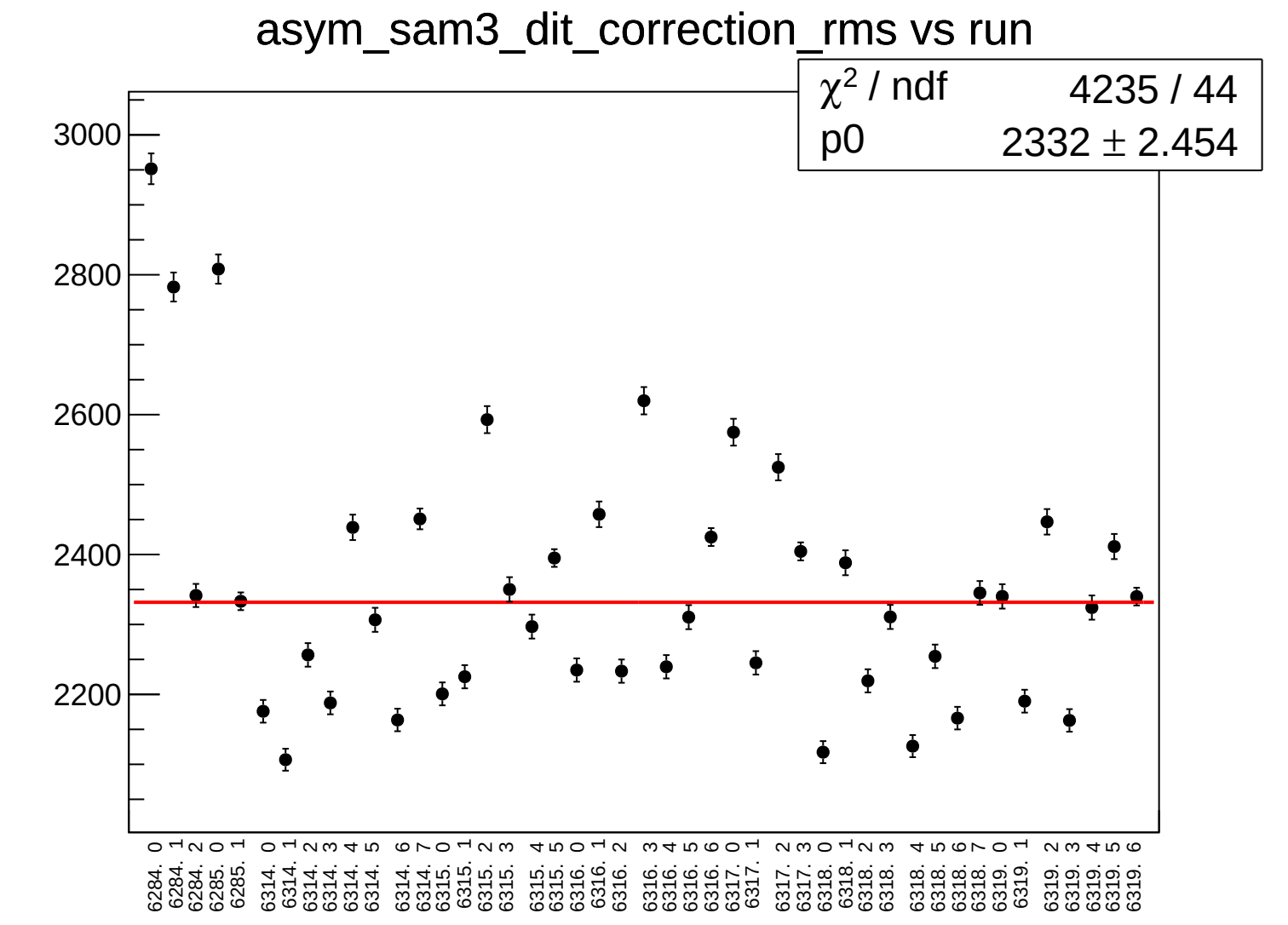

dit_asym_sam3_mean vs run
χ² / ndf 50.41 / 44
p0 −467.1± 350.7
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.28
Std Dev 26.54
2
1
0
−1
−2

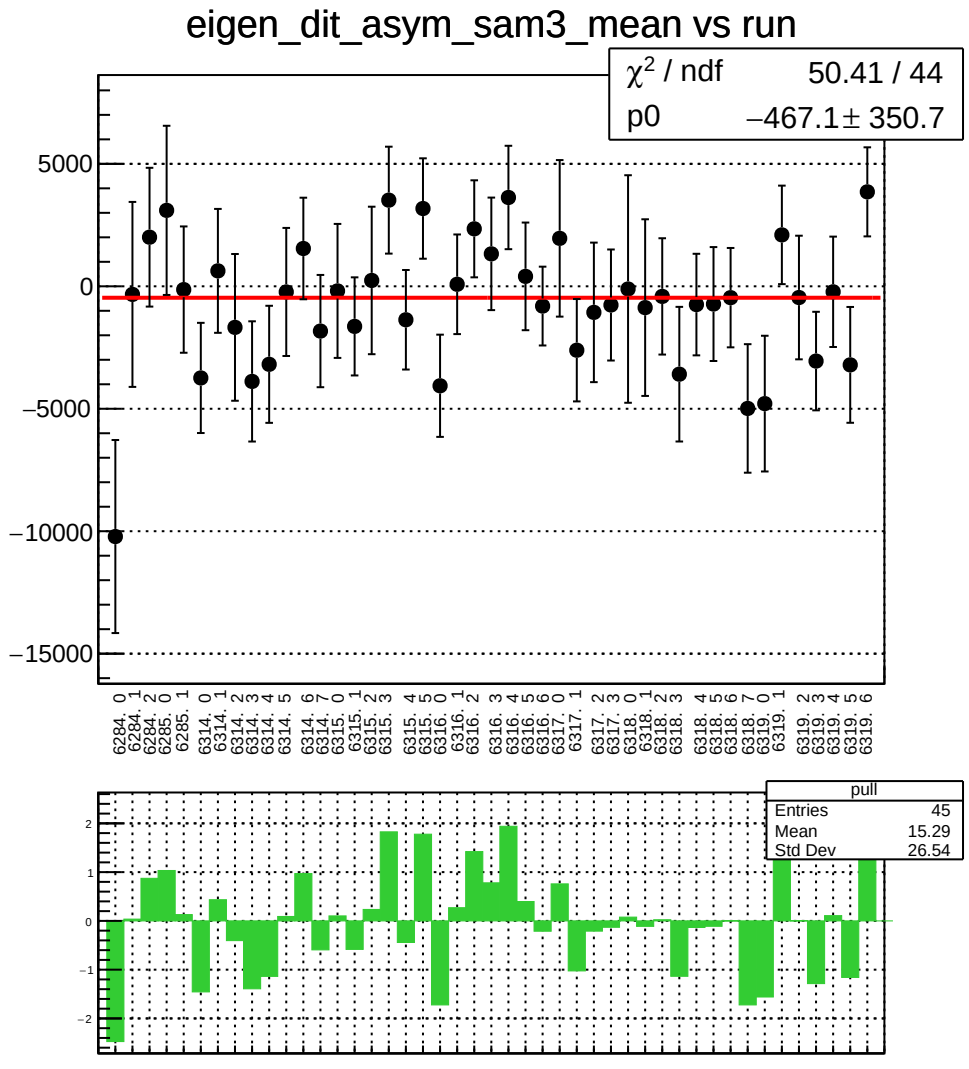

pull1D
Entries 45
Mean −0.04585
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

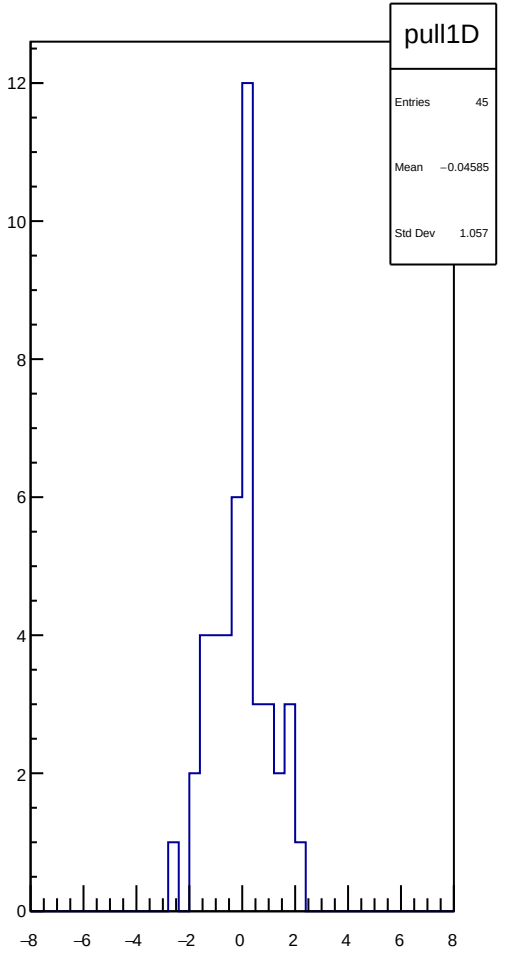

dit_asym_sam3_rms vs run
χ^2 / ndf 3.244e+04 / 44
p0 231.9 ± 0.248
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

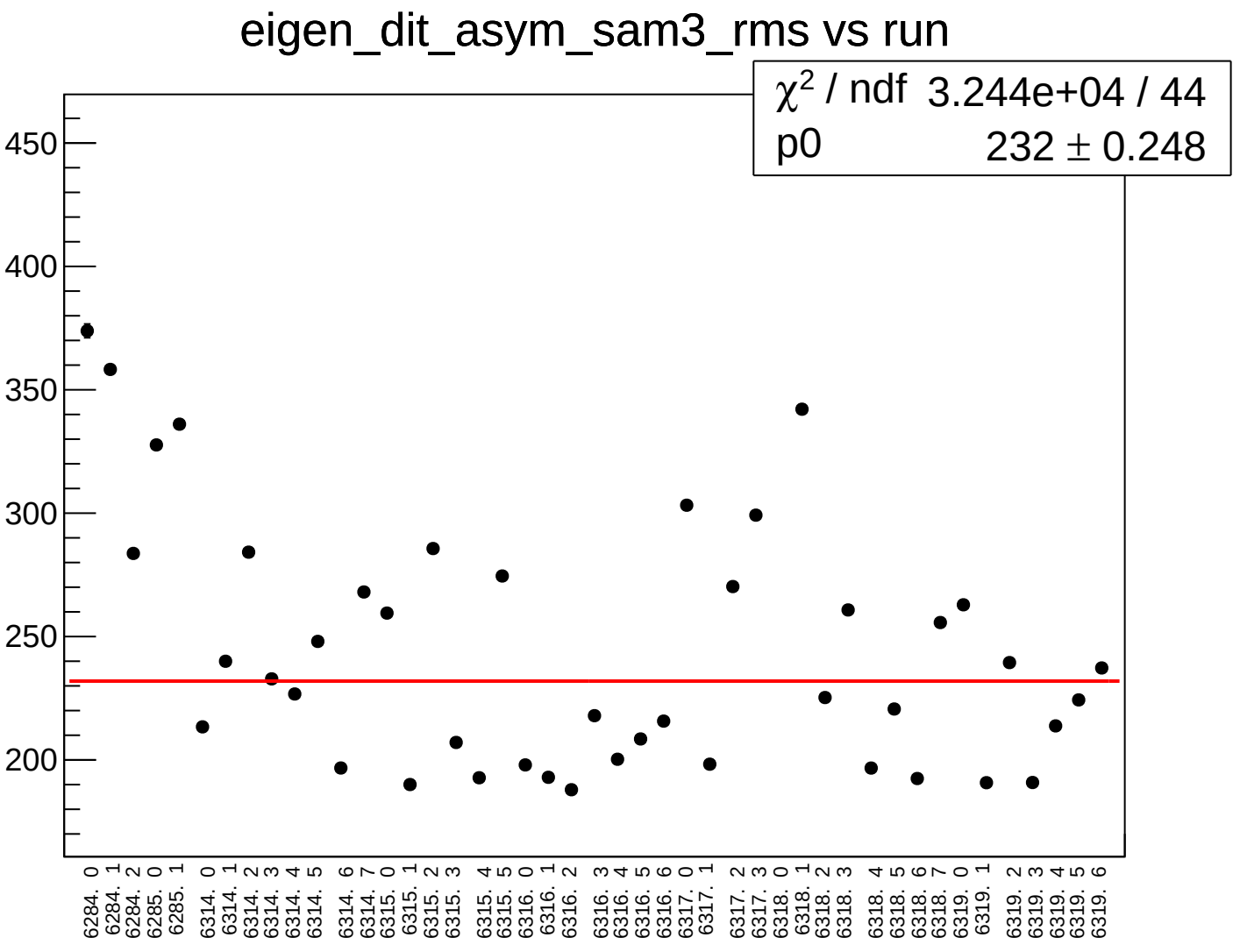

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 41.04 / 44
p0 −160 ± 3470
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 516.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

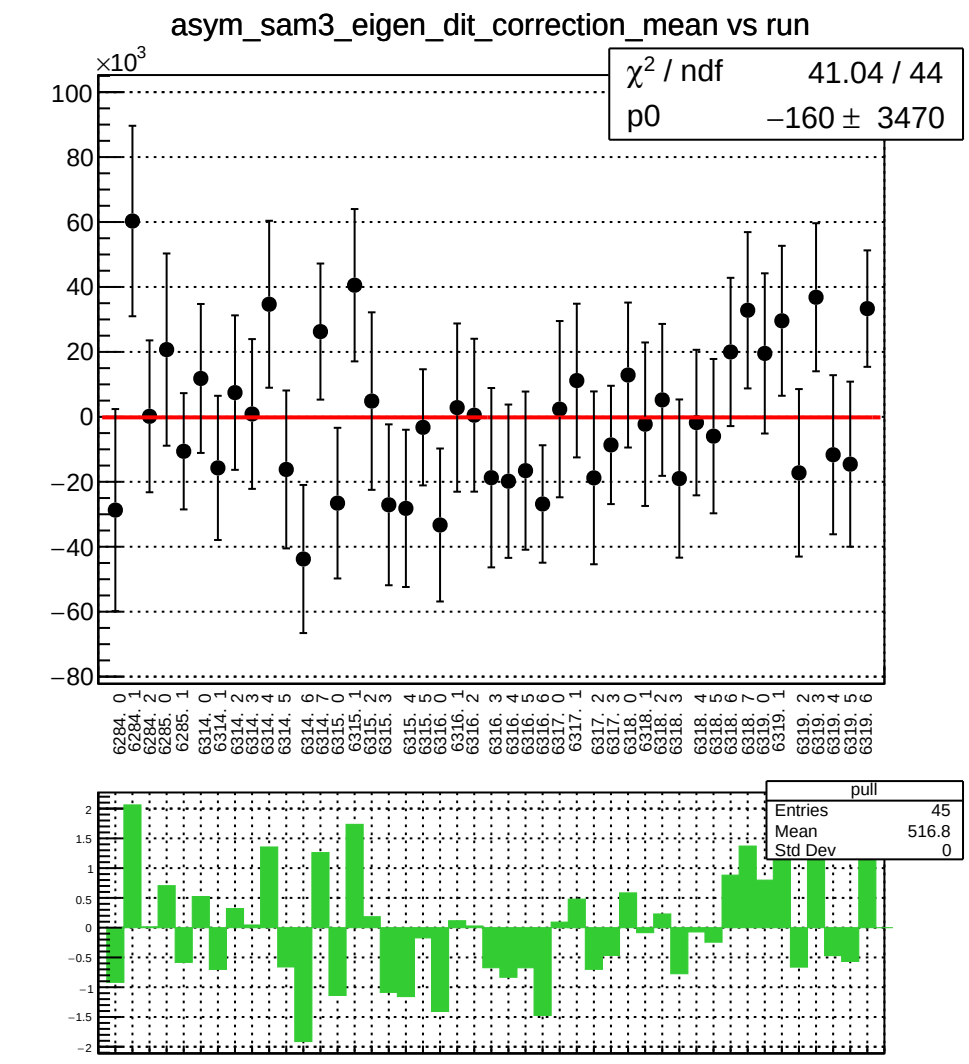

pull1D
Entries 45
Mean 0.00315
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

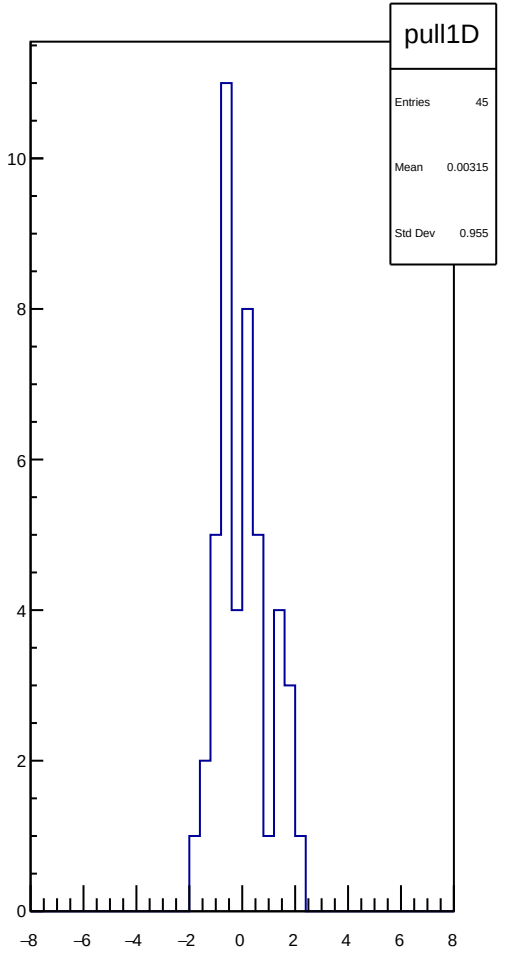

asym_sam3_dit_correction_rms vs run
χ² / ndf 4235 / 44
p0 2332 ± 2.454
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

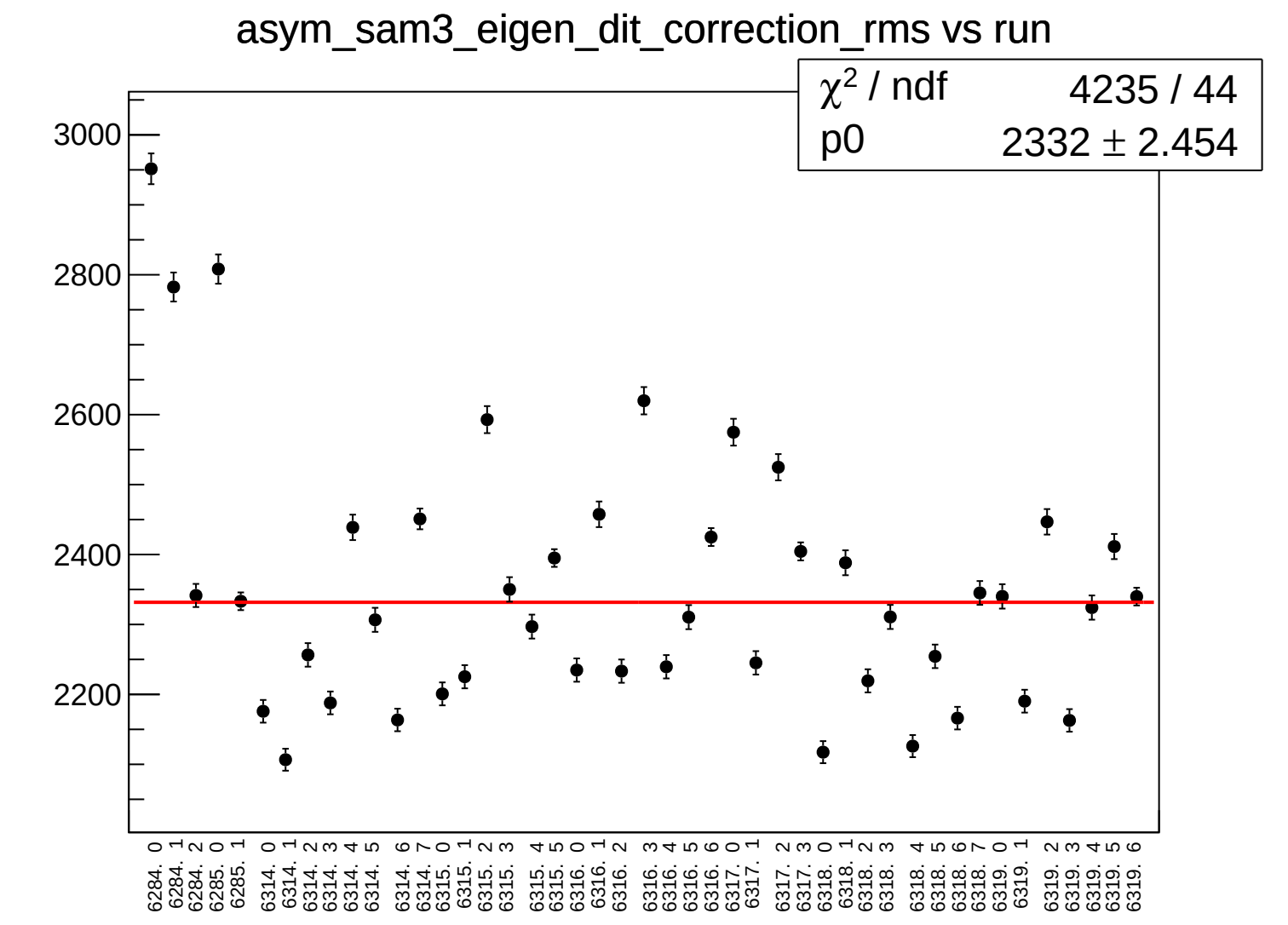

eigen_dit_asym_sam3_mean vs run
χ² / ndf 50.41 / 44
p0 −467.1± 350.7
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.29
Std Dev 26.54
2
1
0
−1
−2

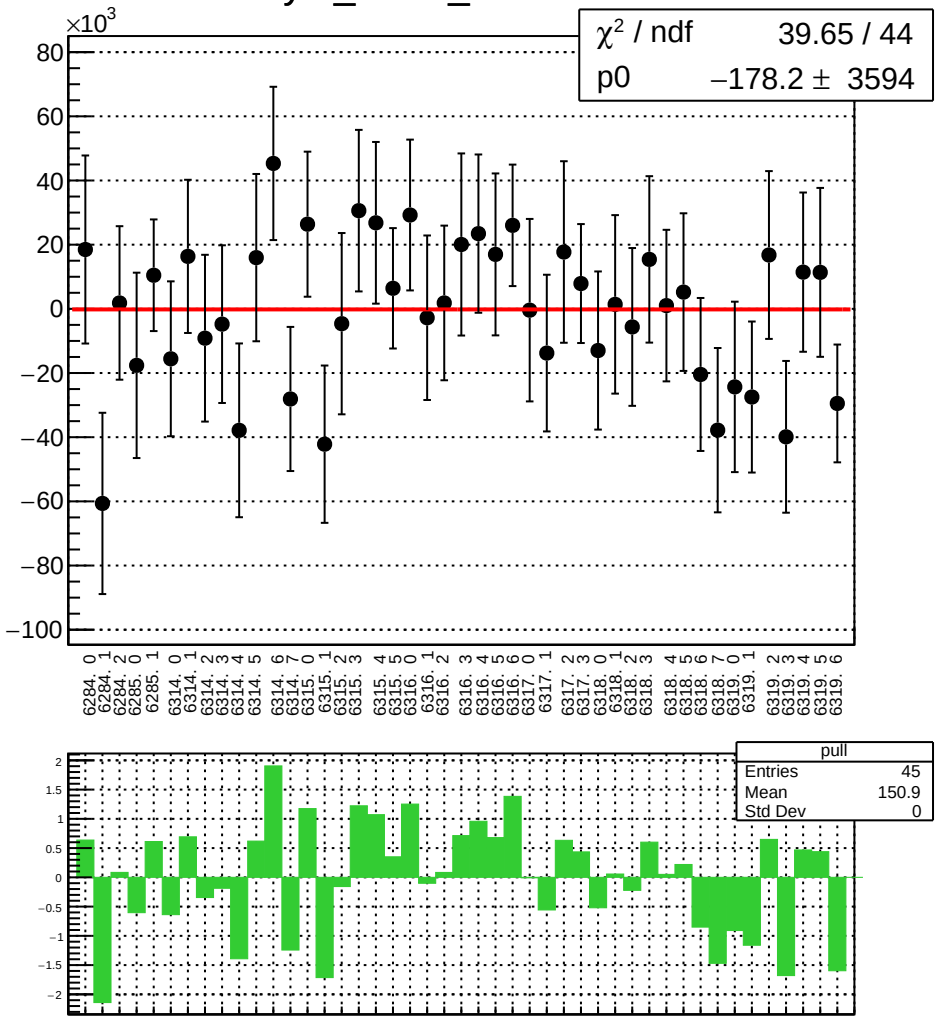

pull1D
Entries 45
Mean −0.04585
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

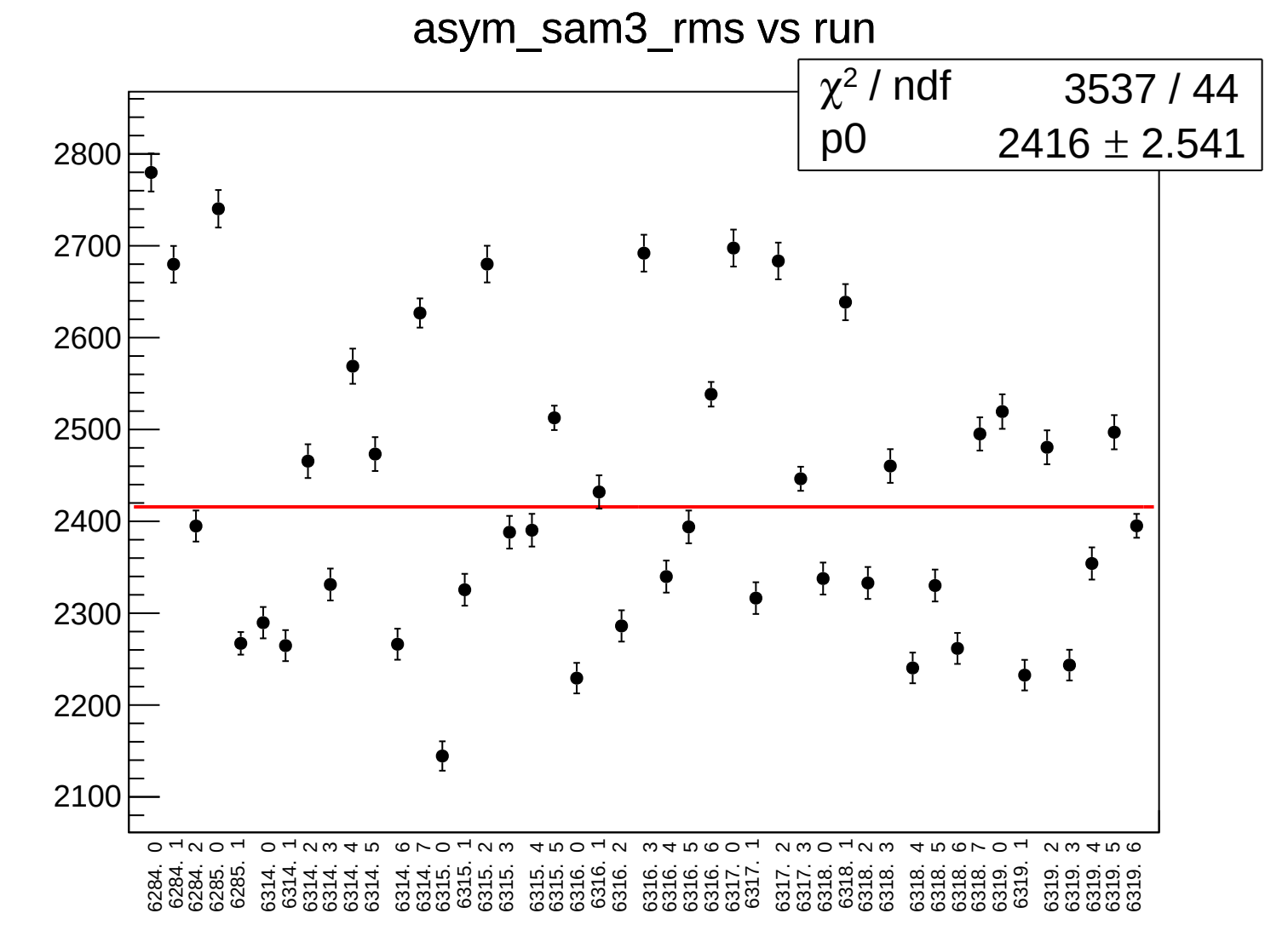

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 3.244e+04 / 44
p0 232 ± 0.248
450
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

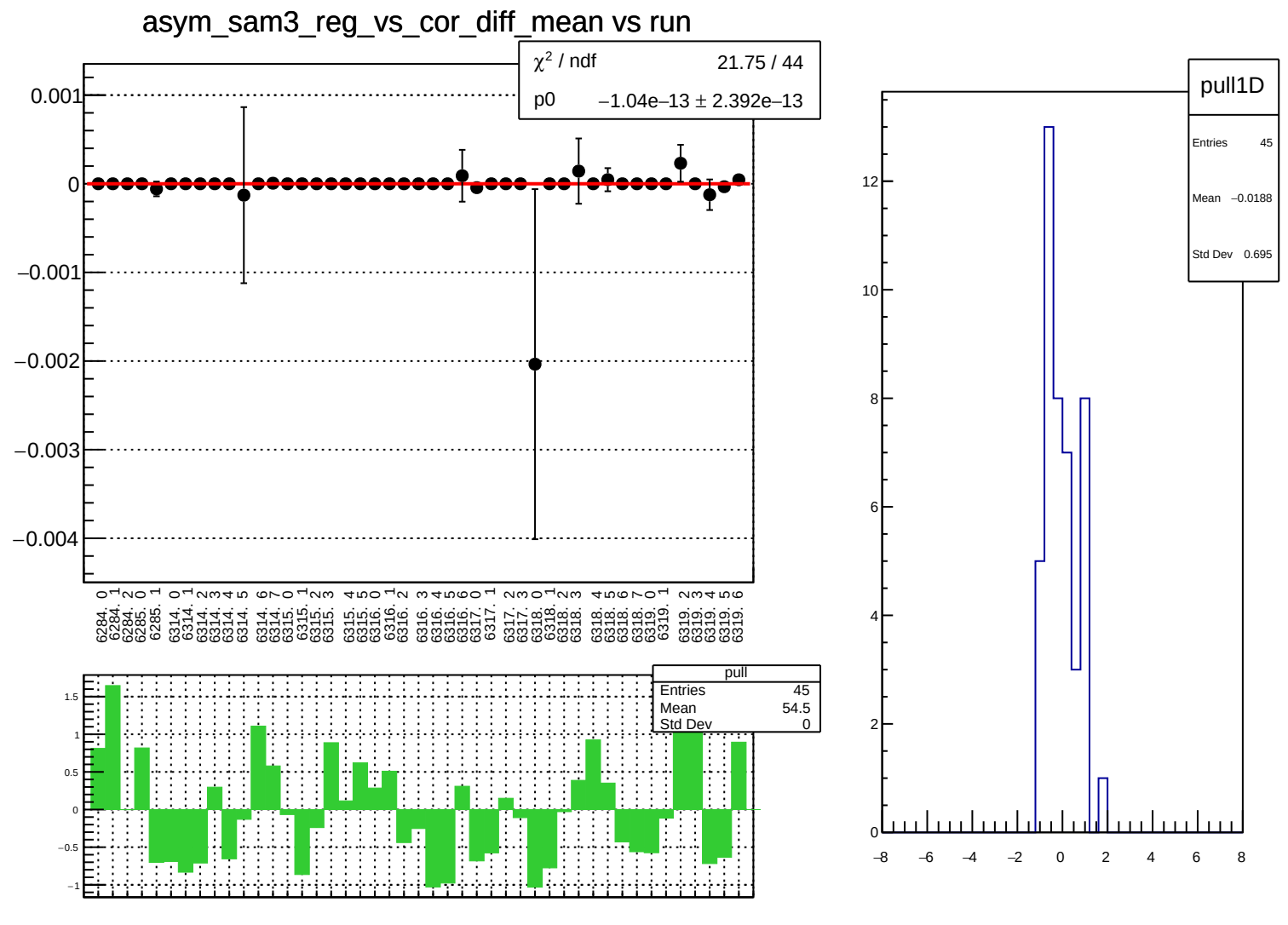

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.04 / 44
p0 −160 ± 3470
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 516.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

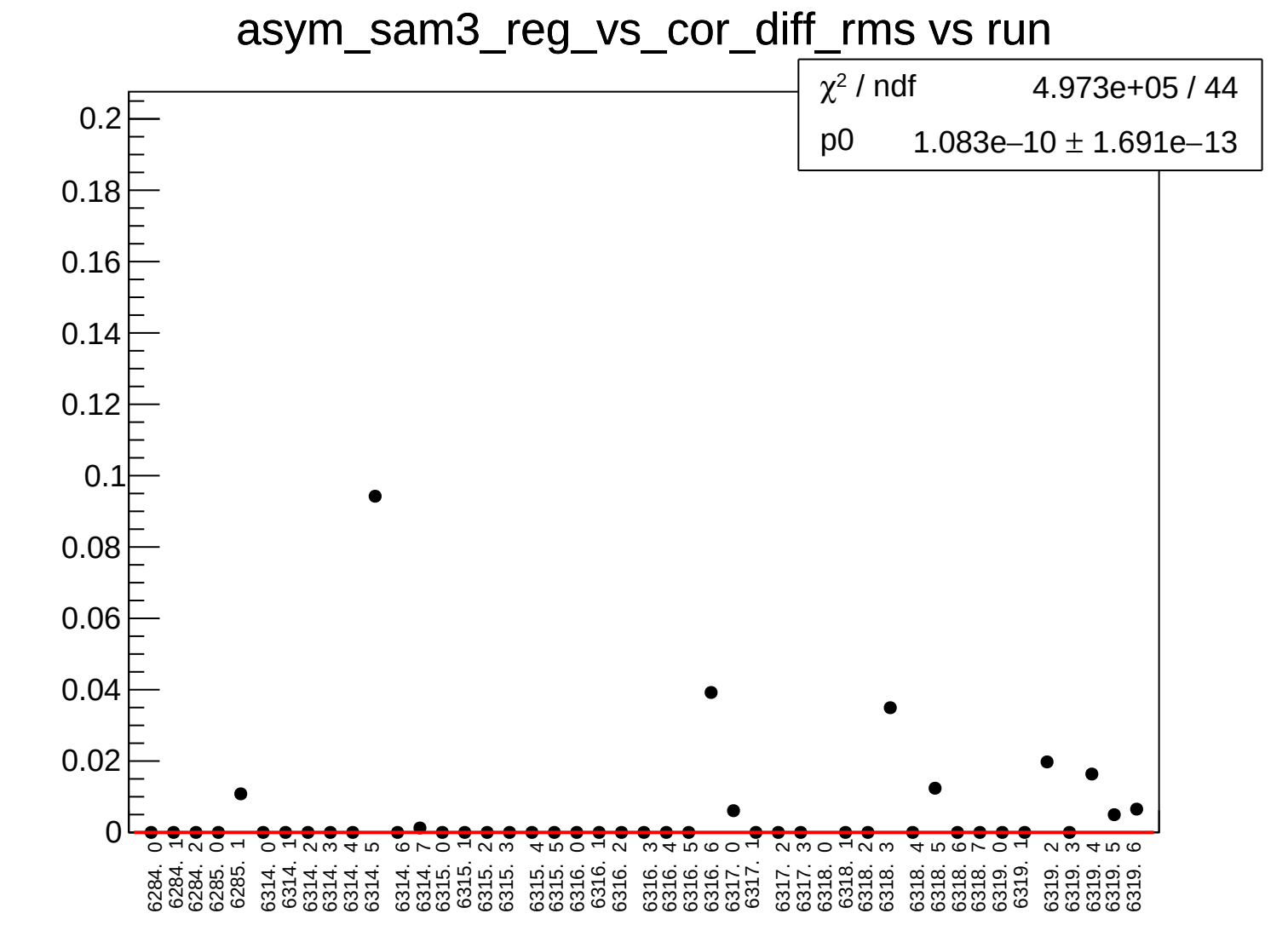

pull1D
Entries 45
Mean 0.00315
Std Dev 0.955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

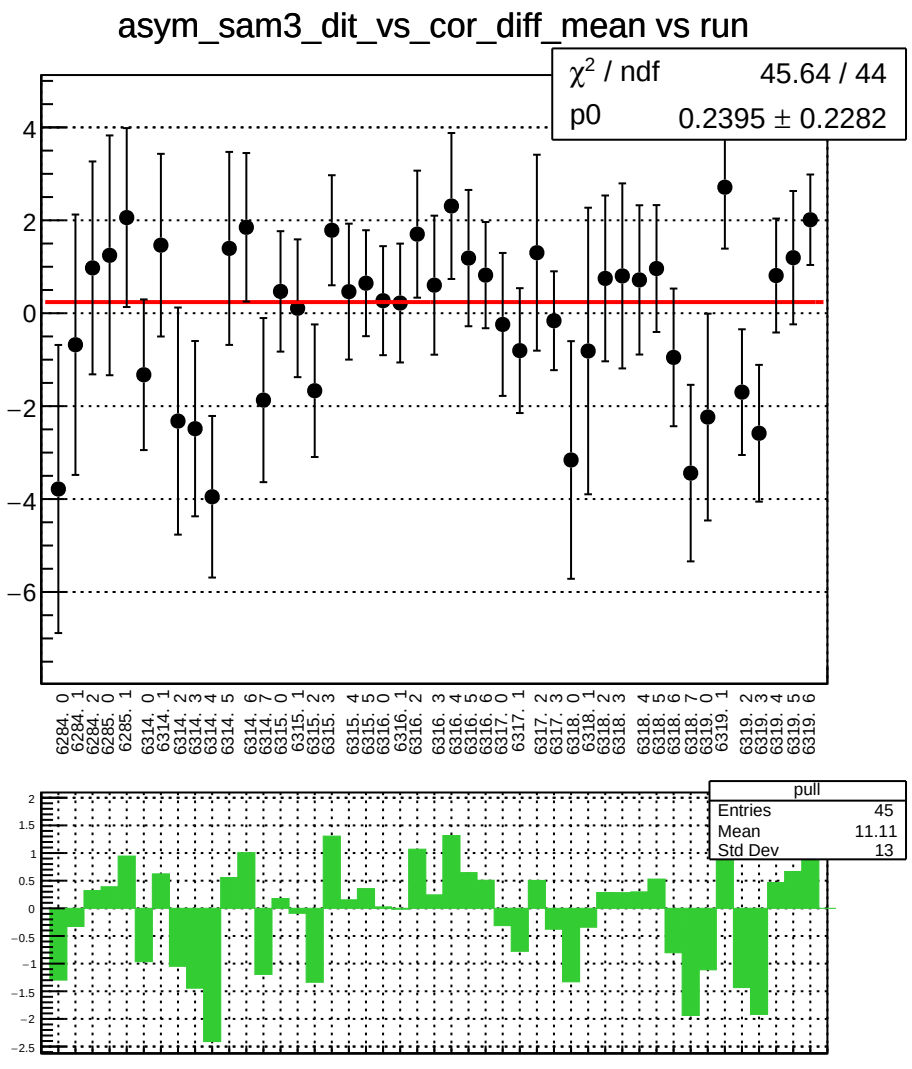

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4235 / 44
p0 2332 ± 2.454
3000
2800
2600
2400
2200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

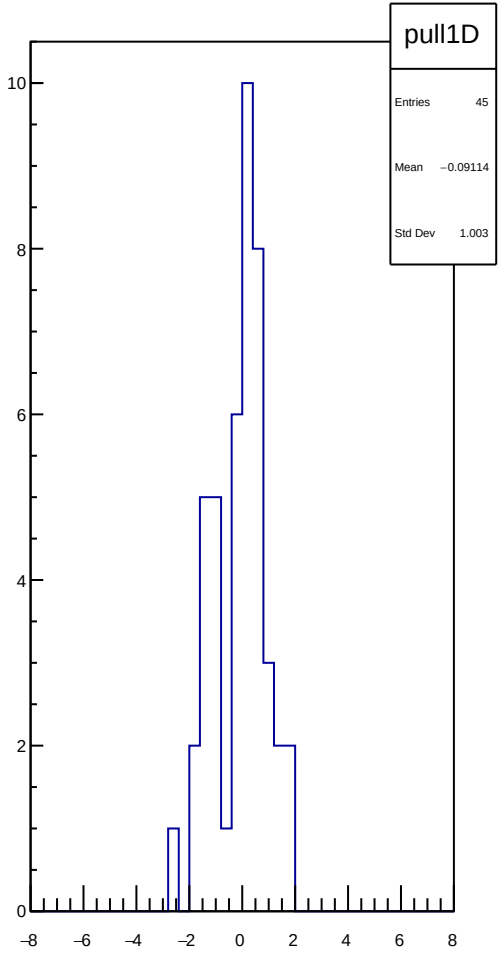

asym_sam3_mean vs run
×10^3
χ² / ndf 39.65 / 44
p0 −178.2 ± 3594
pull
Entries 45
Mean 150.9
Std Dev 0
pull1D
Entries 45
Mean −0.01115
Std Dev 0.9386

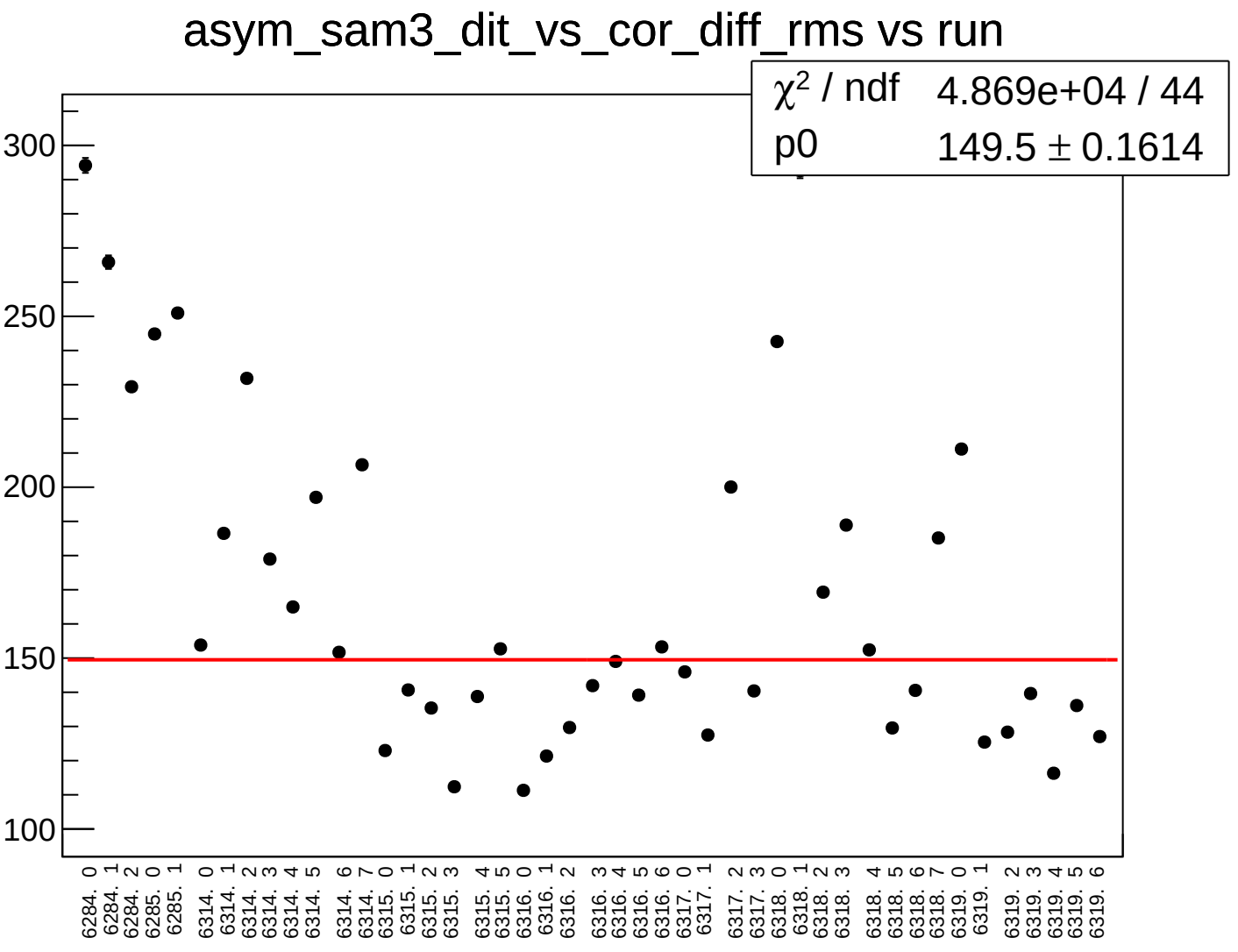

asym_sam3_rms vs run
χ² / ndf 3537 / 44
p0 2416 ± 2.541
2800
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

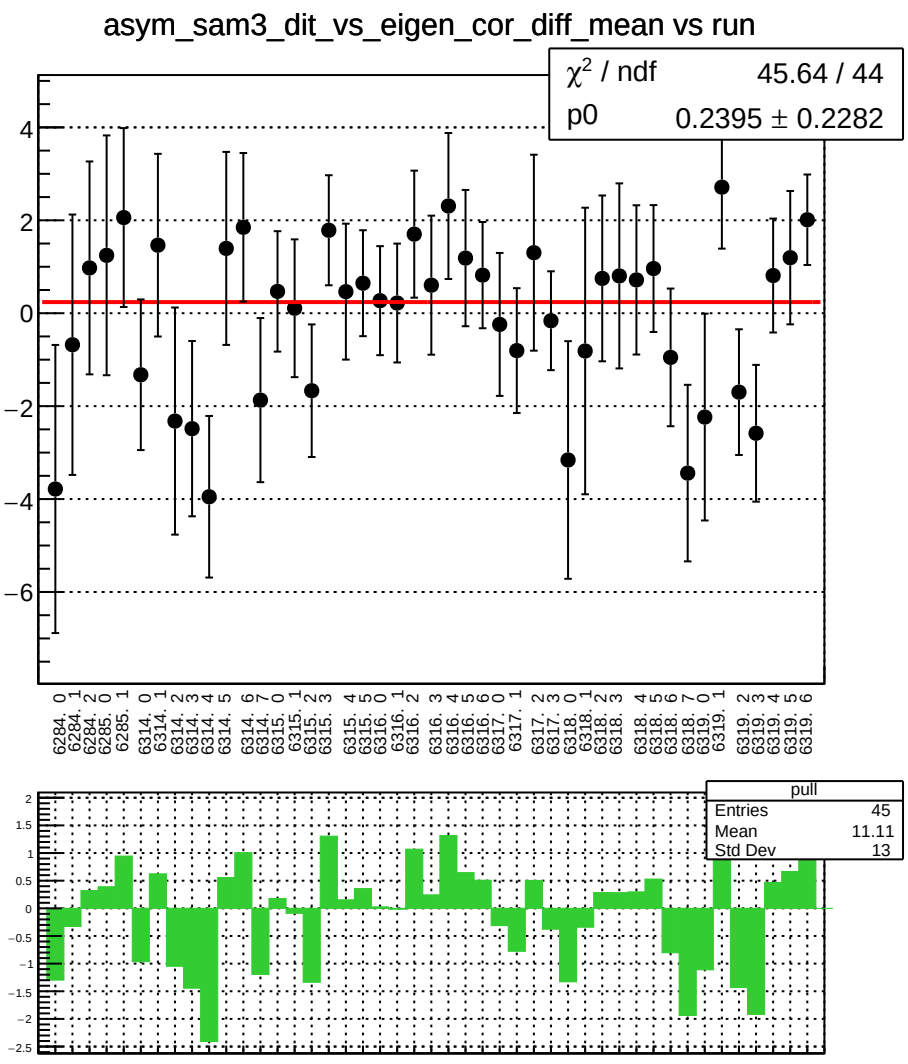

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 21.75 / 44
p0 −1.04e−13 ± 2.392e−13
0.001
0
−0.001
−0.002
−0.003
−0.004
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 54.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.0188
Std Dev 0.695
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

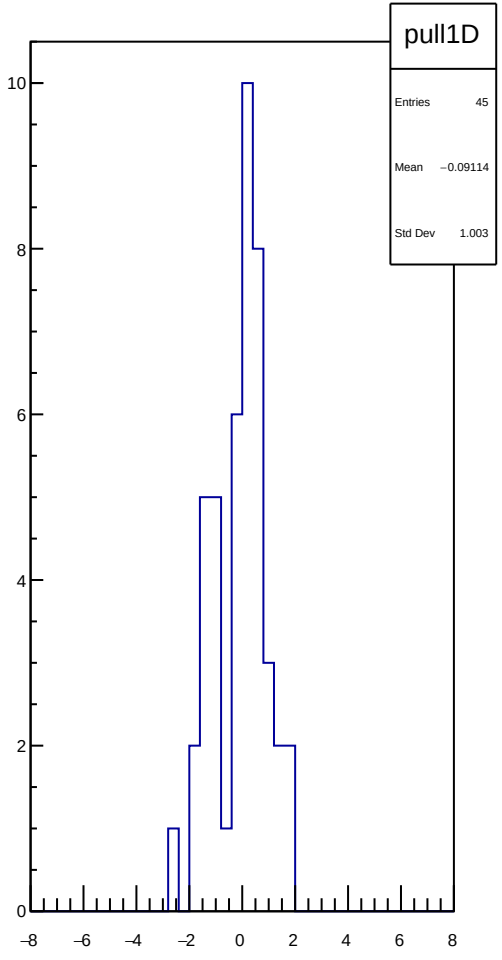

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 4.973e+05 / 44
p0 1.083e−10 ± 1.691e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

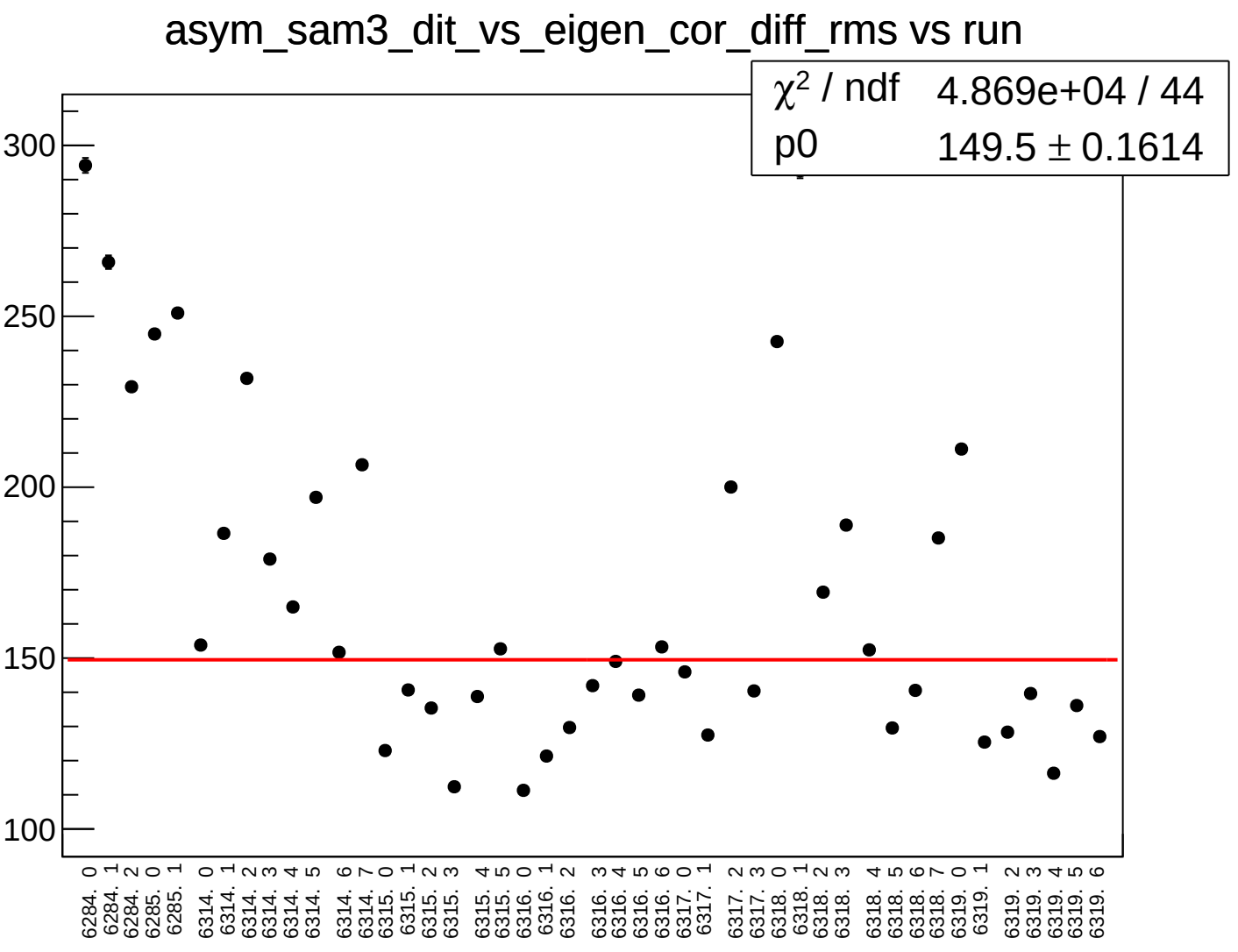

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 45.64 / 44
p0 0.2395 ± 0.2282
pull
Entries 45
Mean 11.11
Std Dev 13

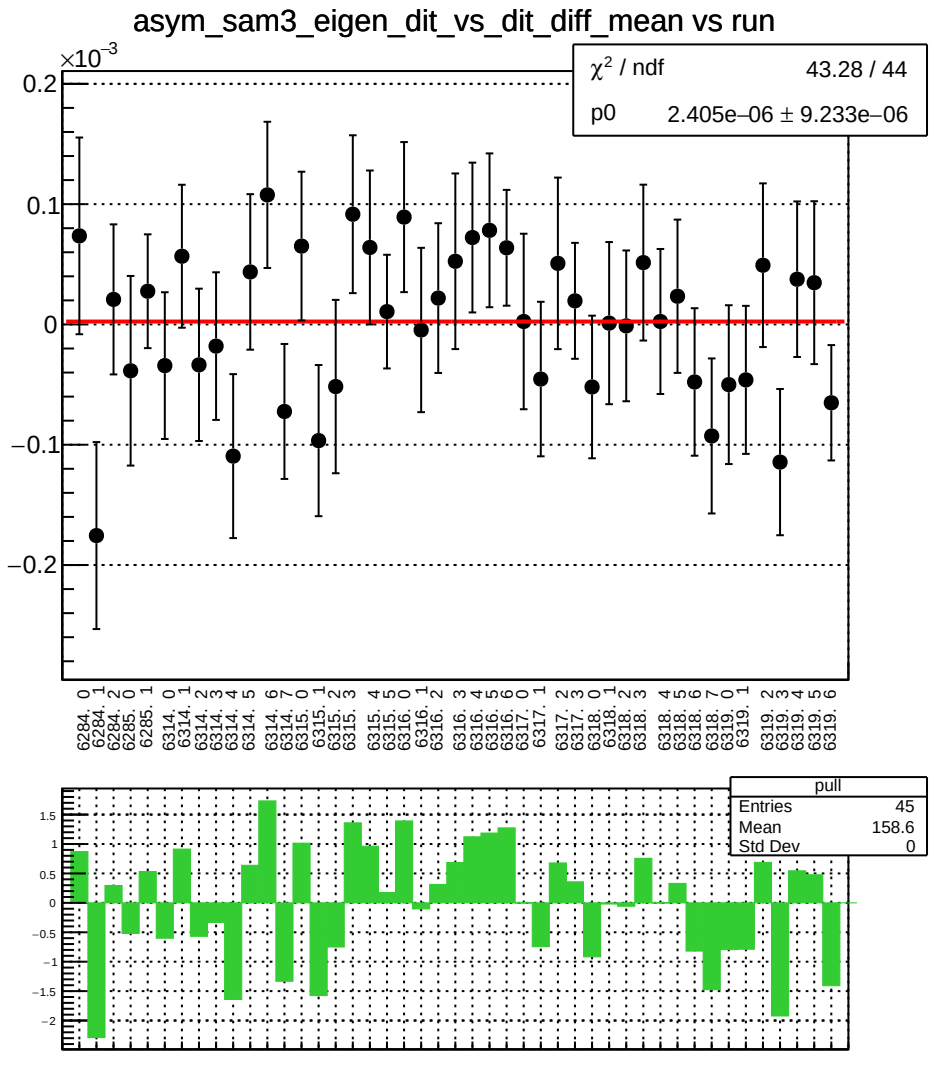

pull1D
Entries 45
Mean −0.09114
Std Dev 1.003

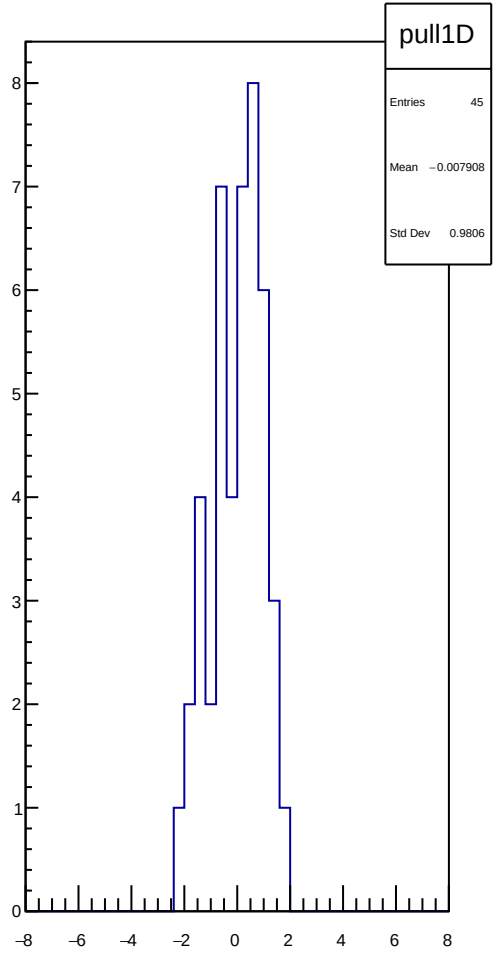

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 44
p0 149.5 ± 0.1614
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

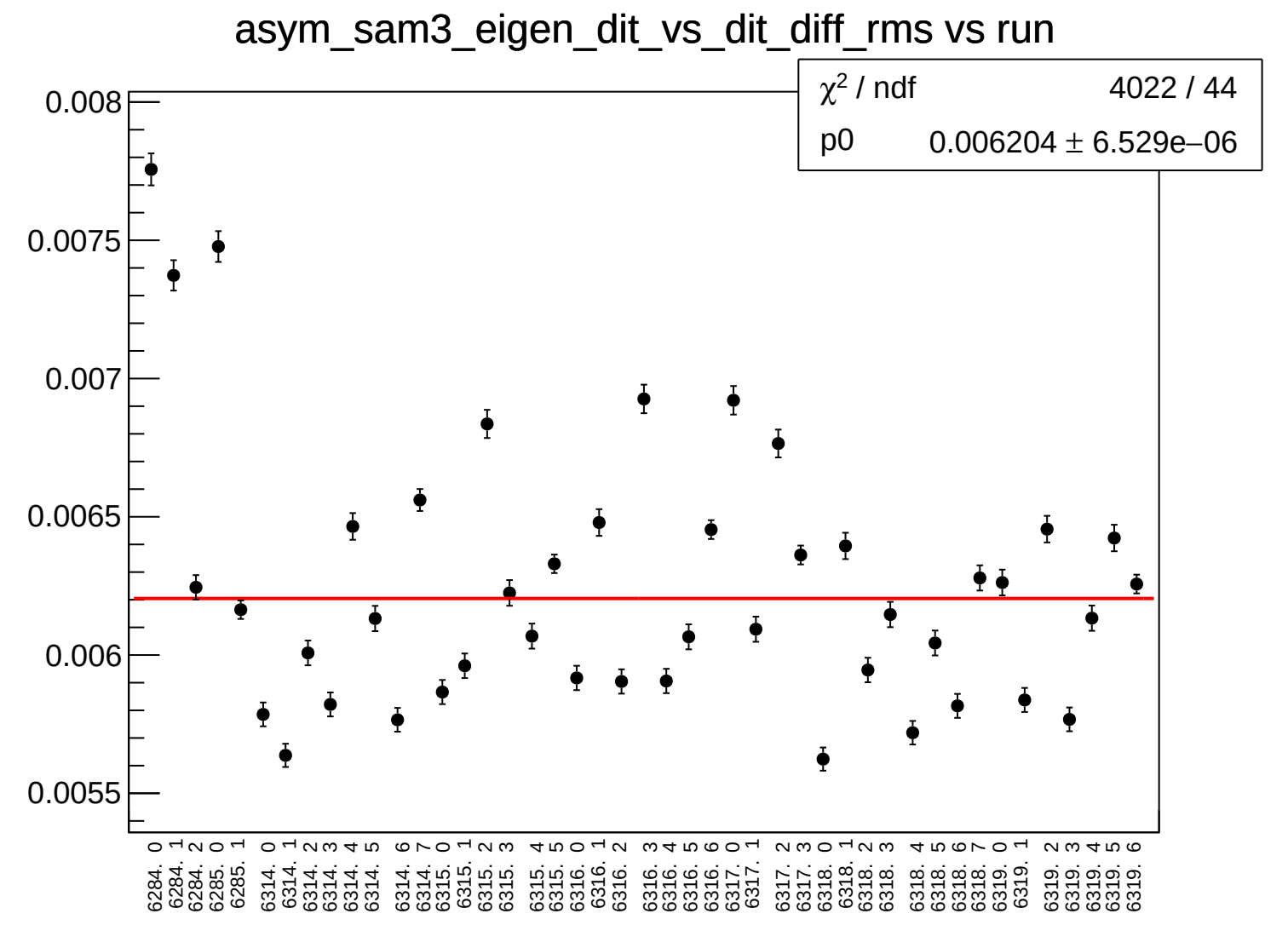

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.64 / 44
p0 0.2395 ± 0.2282
pull
Entries 45
Mean 11.11
Std Dev 13


pull1D
Entries 45
Mean −0.09114
Std Dev 1.003


asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 44
p0 149.5 ± 0.1614
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.28 / 44
p0 2.405e−06 ± 9.233e−06
pull
Entries 45
Mean 158.6
Std Dev 0


pull1D
Entries 45
Mean −0.007908
Std Dev 0.9806


asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4022 / 44
p0 0.006204 ± 6.529e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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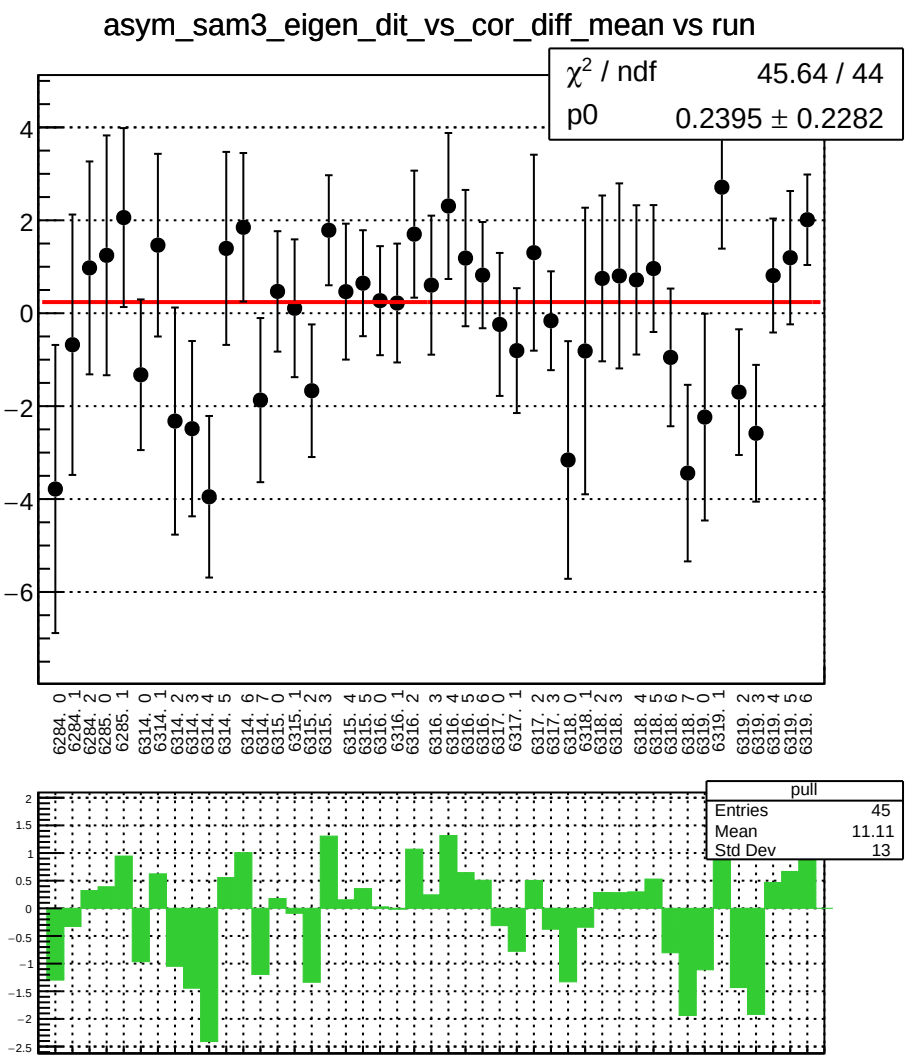
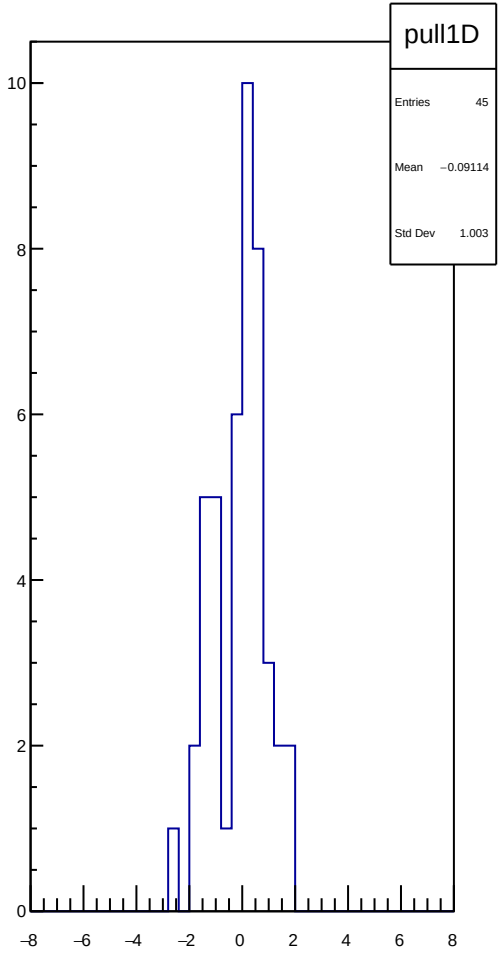
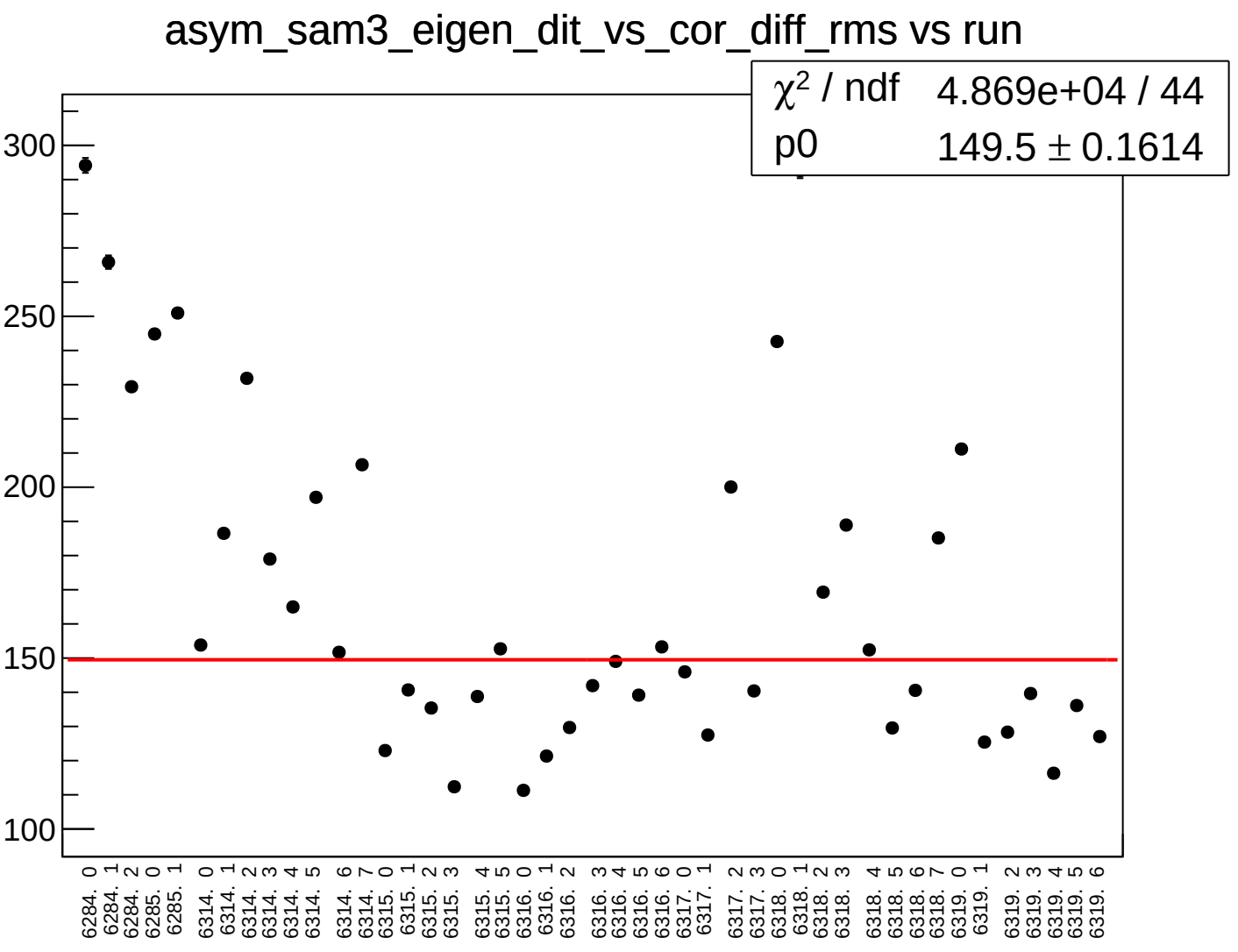
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.64 / 44
p0 0.2395 ± 0.2282
pull
Entries 45
Mean 11.11
Std Dev 13


pull1D
Entries 45
Mean −0.09114
Std Dev 1.003


asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 44
p0 149.5 ± 0.1614
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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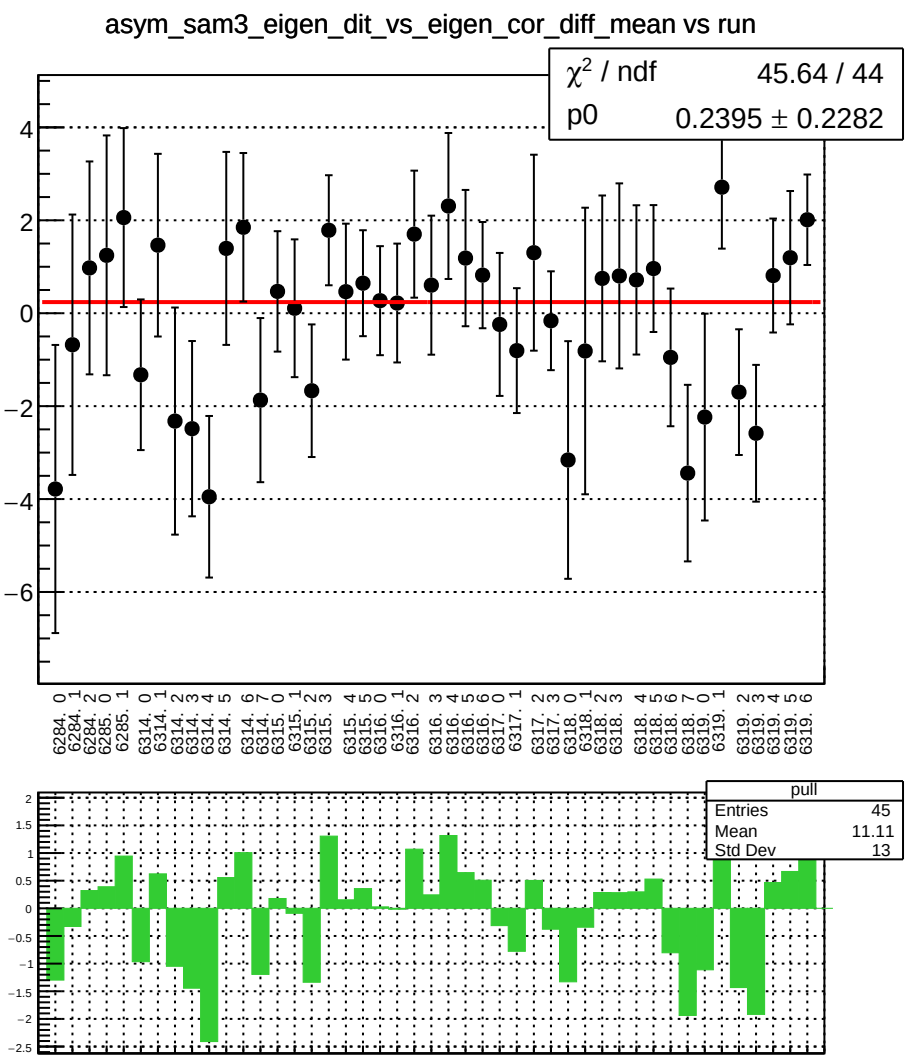
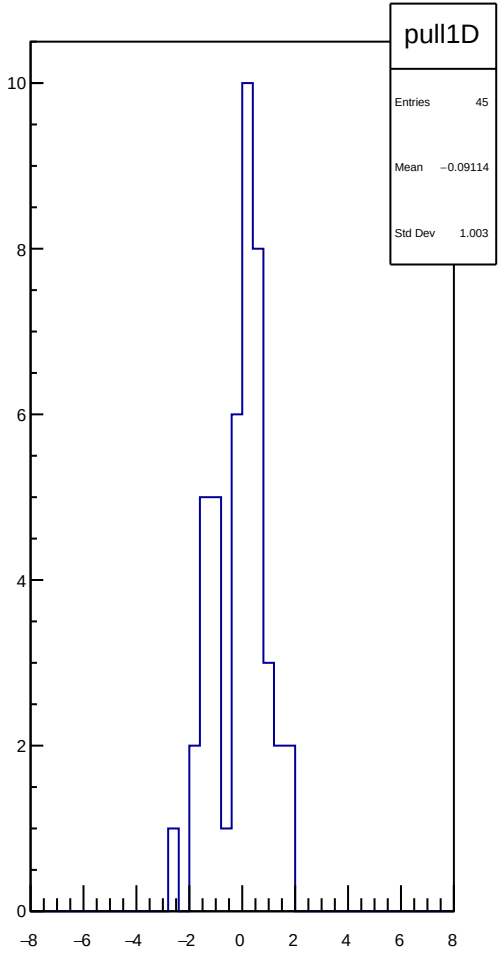
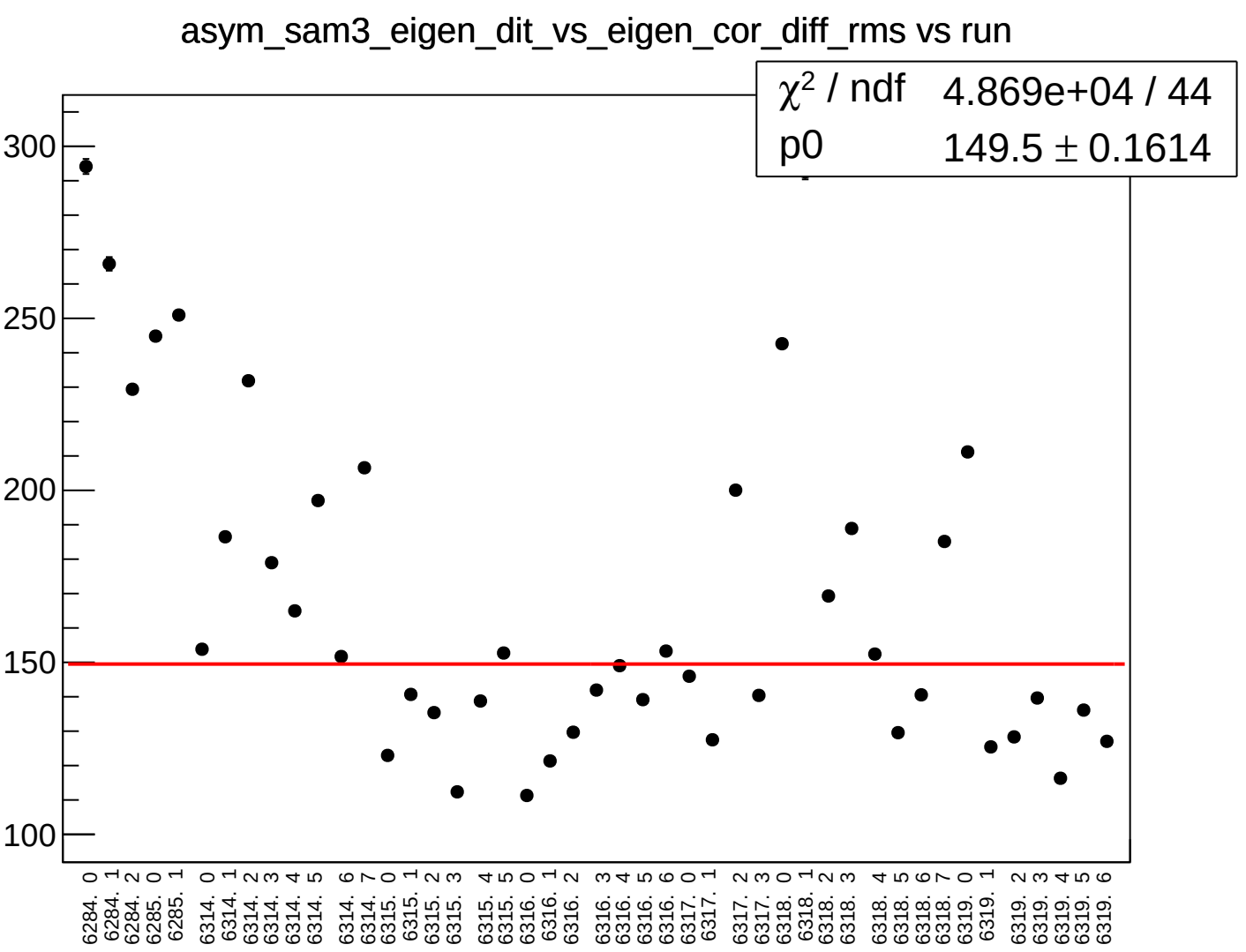
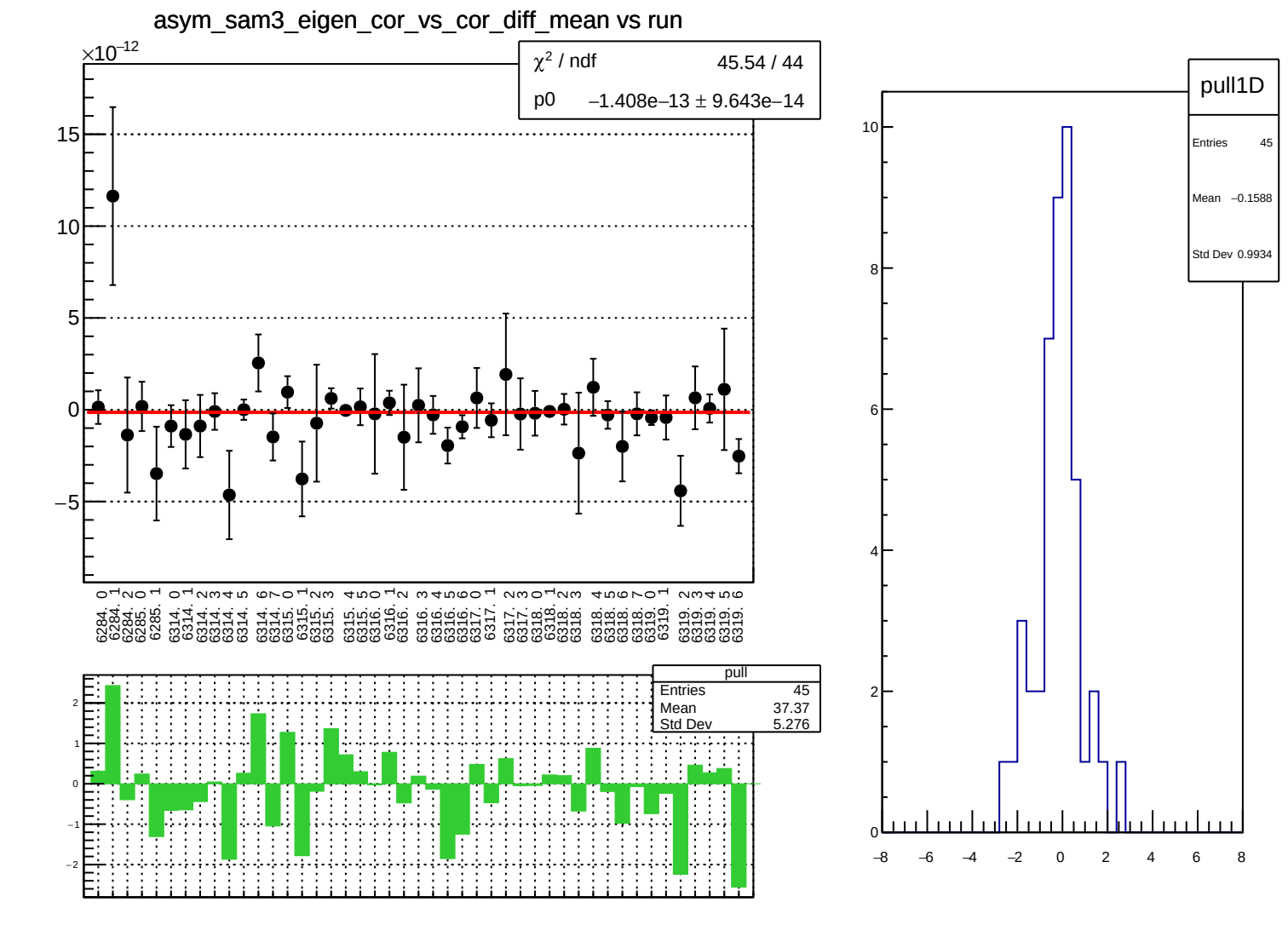
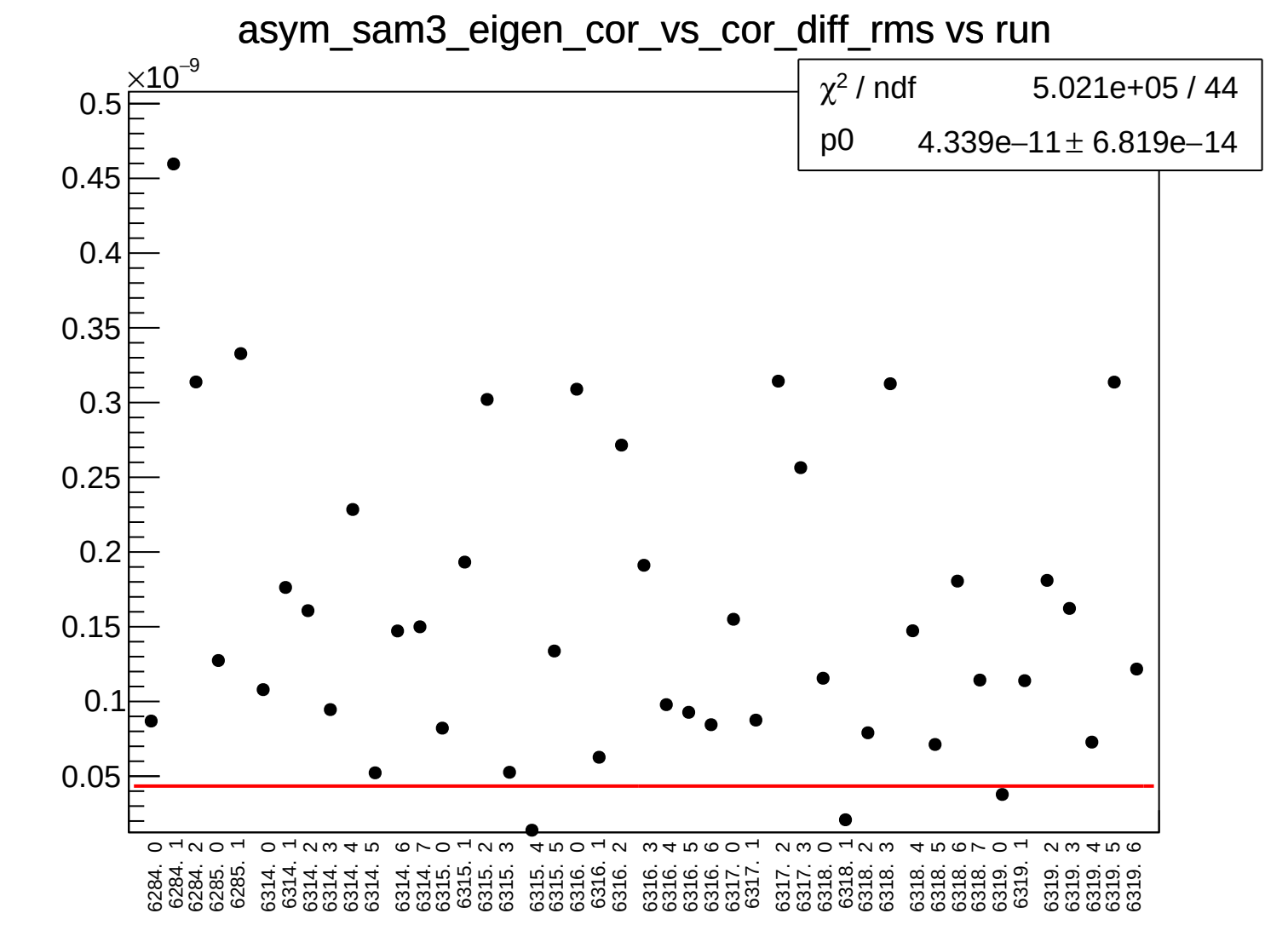
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

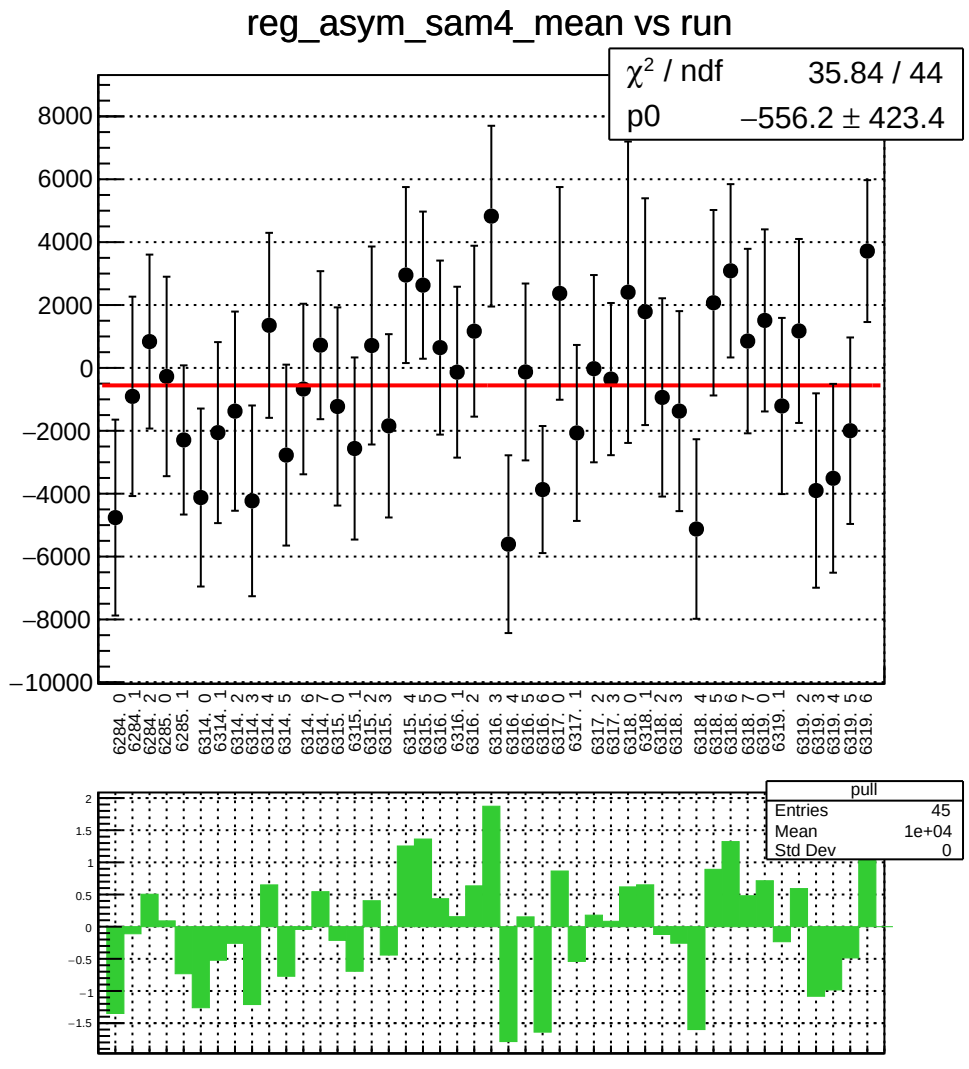

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.64 / 44
p0 0.2395 ± 0.2282
pull
Entries 45
Mean 11.11
Std Dev 13

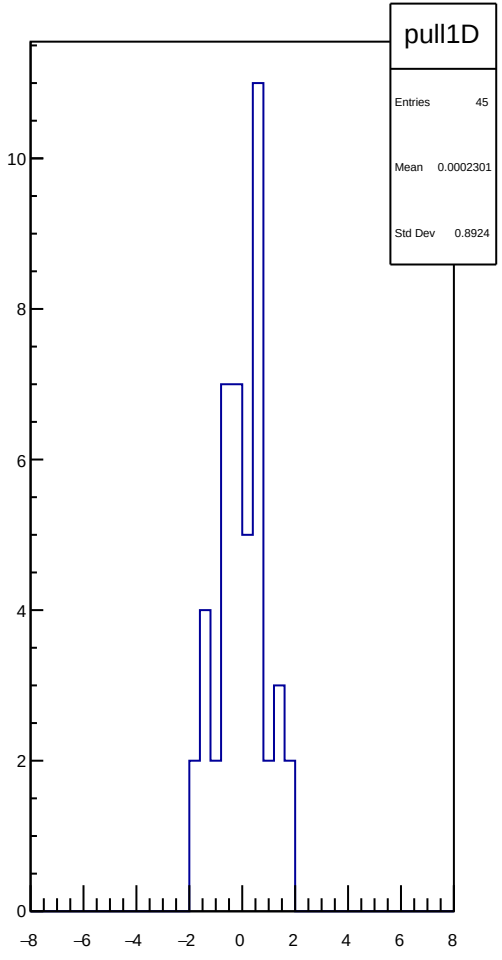

pull1D
Entries 45
Mean −0.09114
Std Dev 1.003

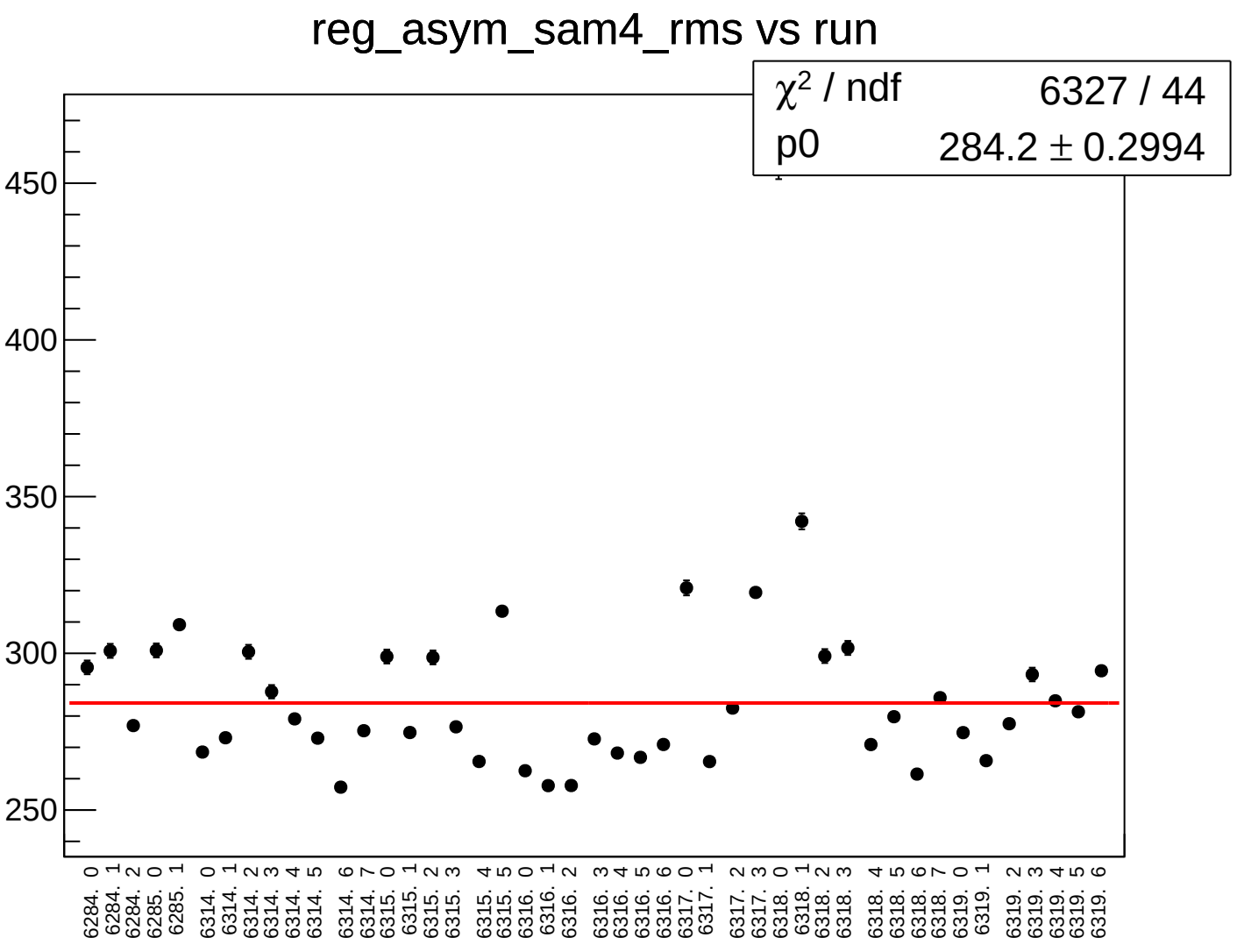

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 44
p0 149.5 ± 0.1614
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.54 / 44
p0 −1.408e−13 ± 9.643e−14
15
10
5
0
−5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.37
Std Dev 5.276
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1588
Std Dev 0.9934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.021e+05 / 44
p0 4.339e−11 ± 6.819e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam4_mean vs run
χ² / ndf 35.84 / 44
p0 −556.2 ± 423.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0002301
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_rms vs run
χ² / ndf 6327 / 44
p0 284.2 ± 0.2994
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
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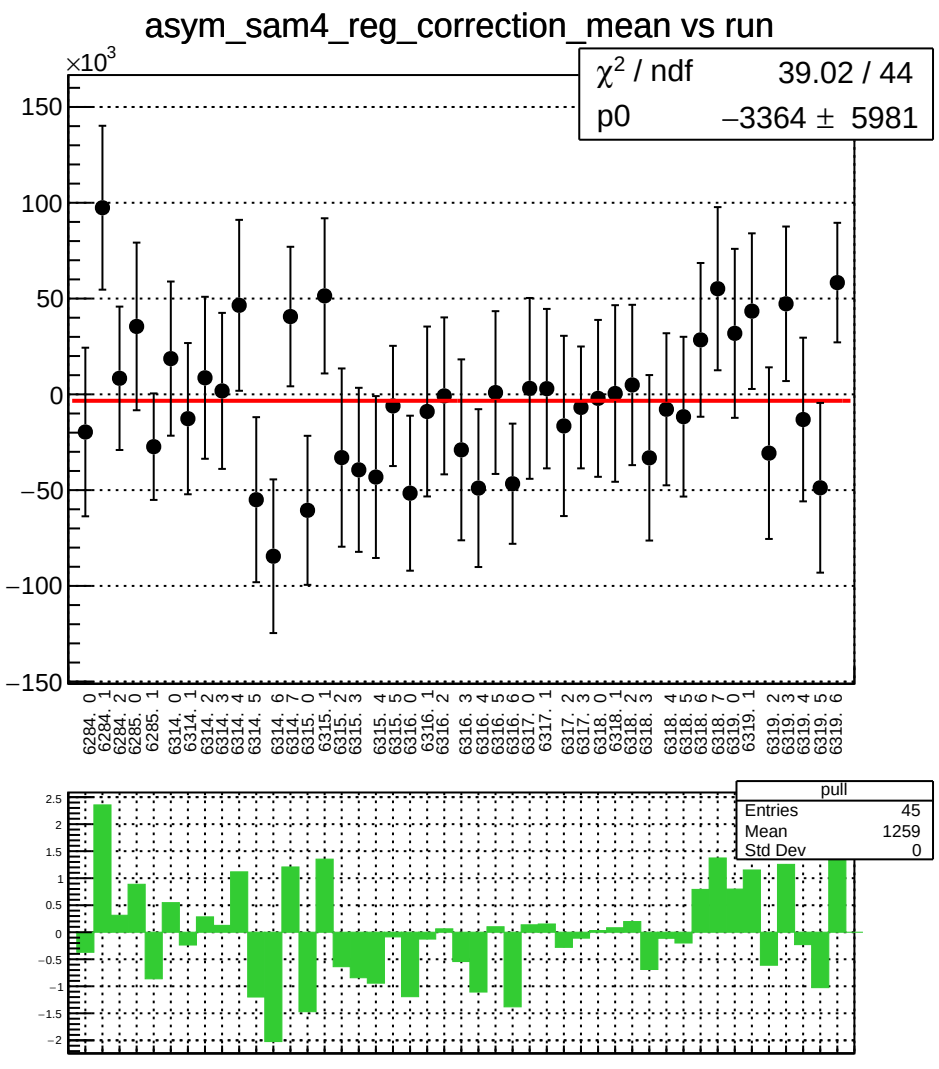
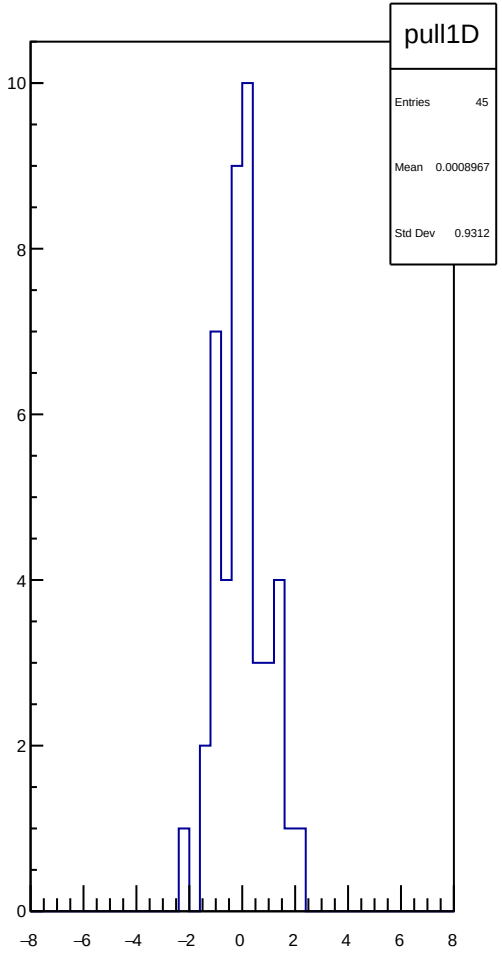
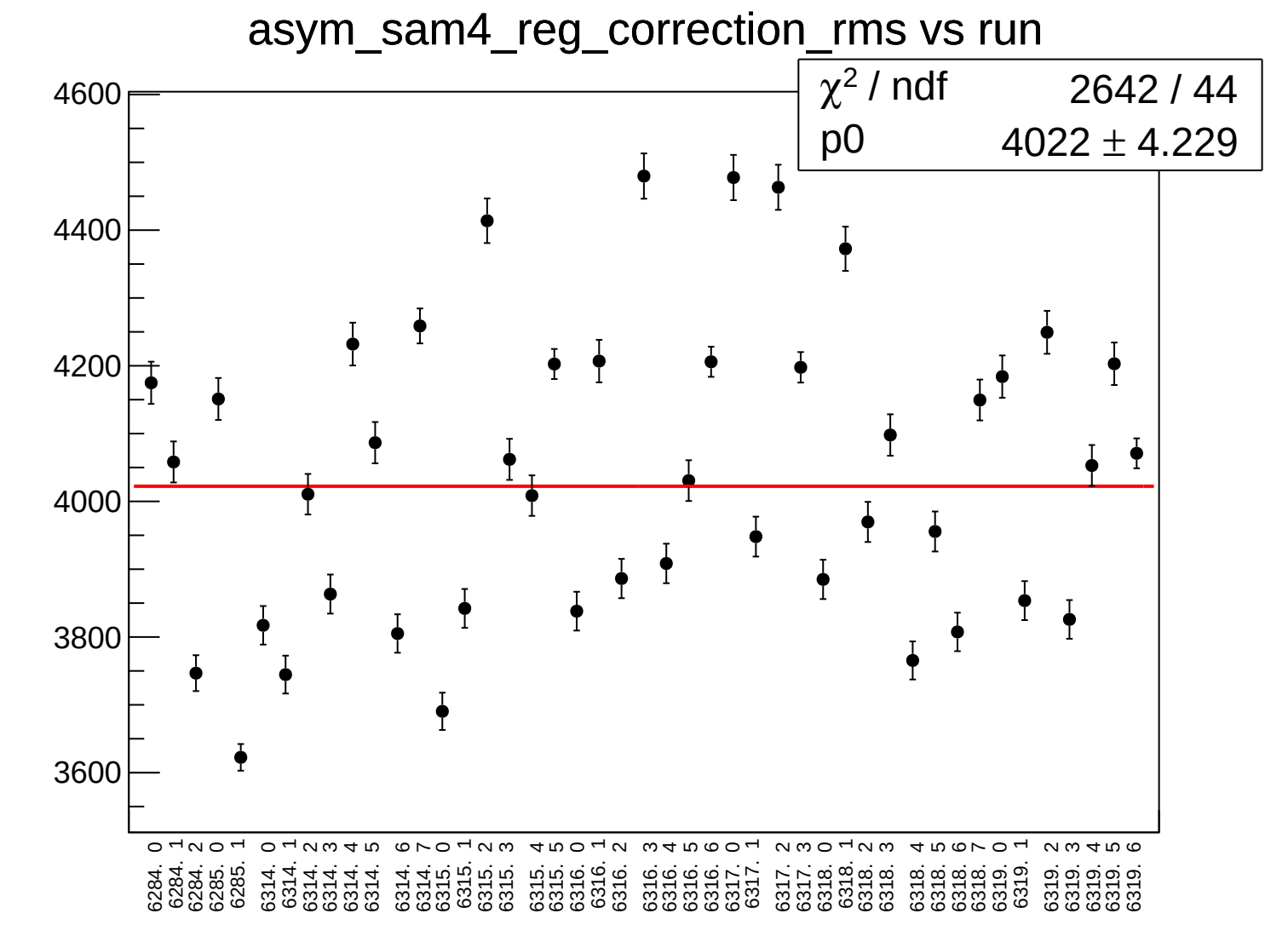
6319. 6


asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 39.02 / 44
p0 −3364 ± 5981
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0008967
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_reg_correction_rms vs run
χ² / ndf 2642 / 44
p0 4022 ± 4.229
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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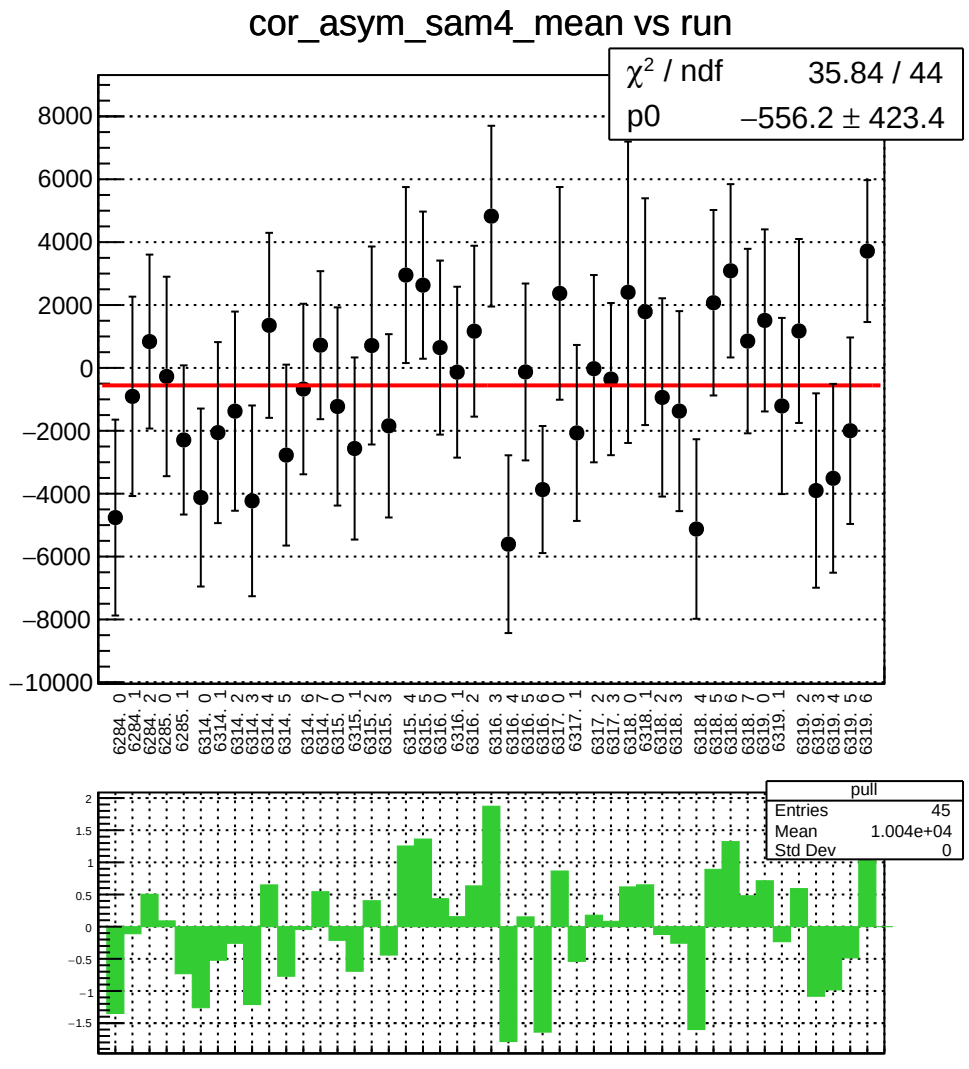
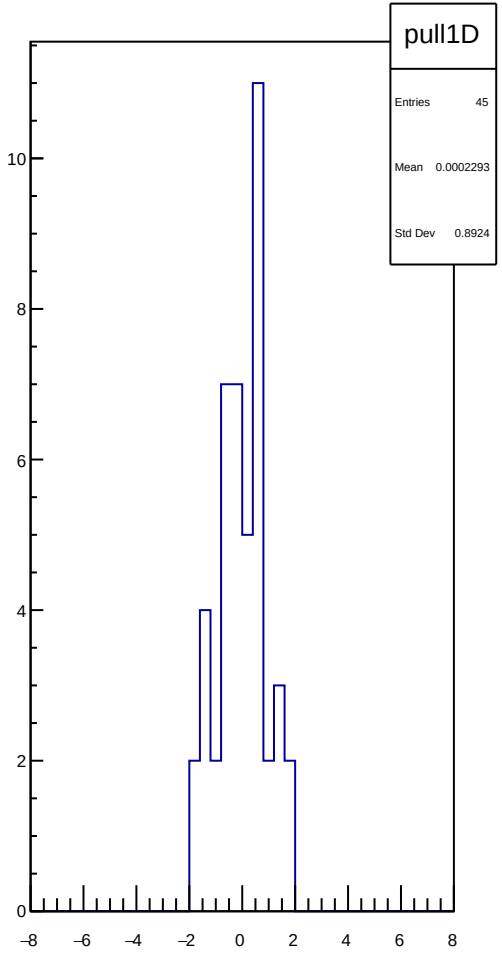
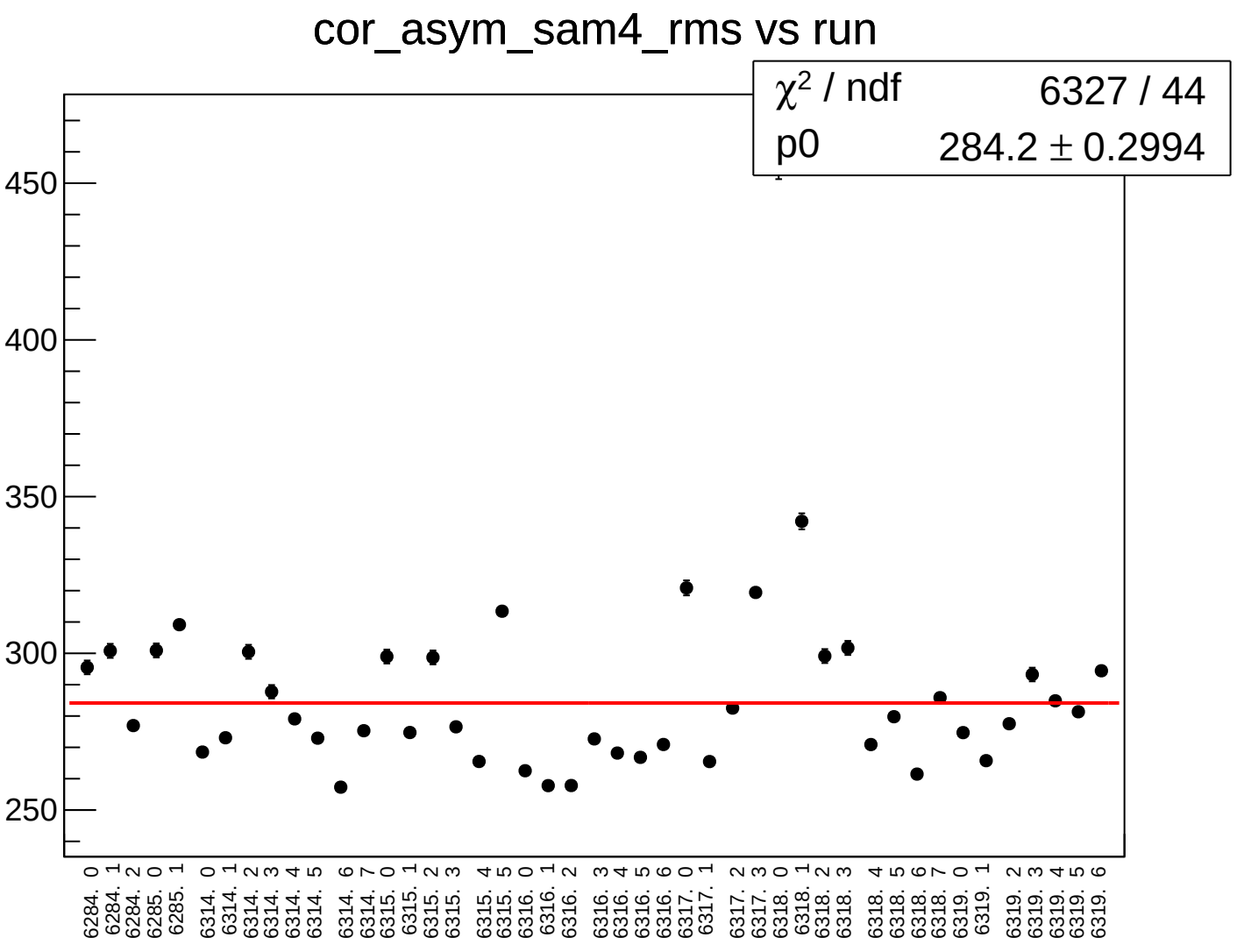
6319. 5
6319. 6


cor_asym_sam4_mean vs run
χ² / ndf 35.84 / 44
p0 −556.2 ± 423.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.004e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0002293
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam4_rms vs run
χ² / ndf 6327 / 44
p0 284.2 ± 0.2994
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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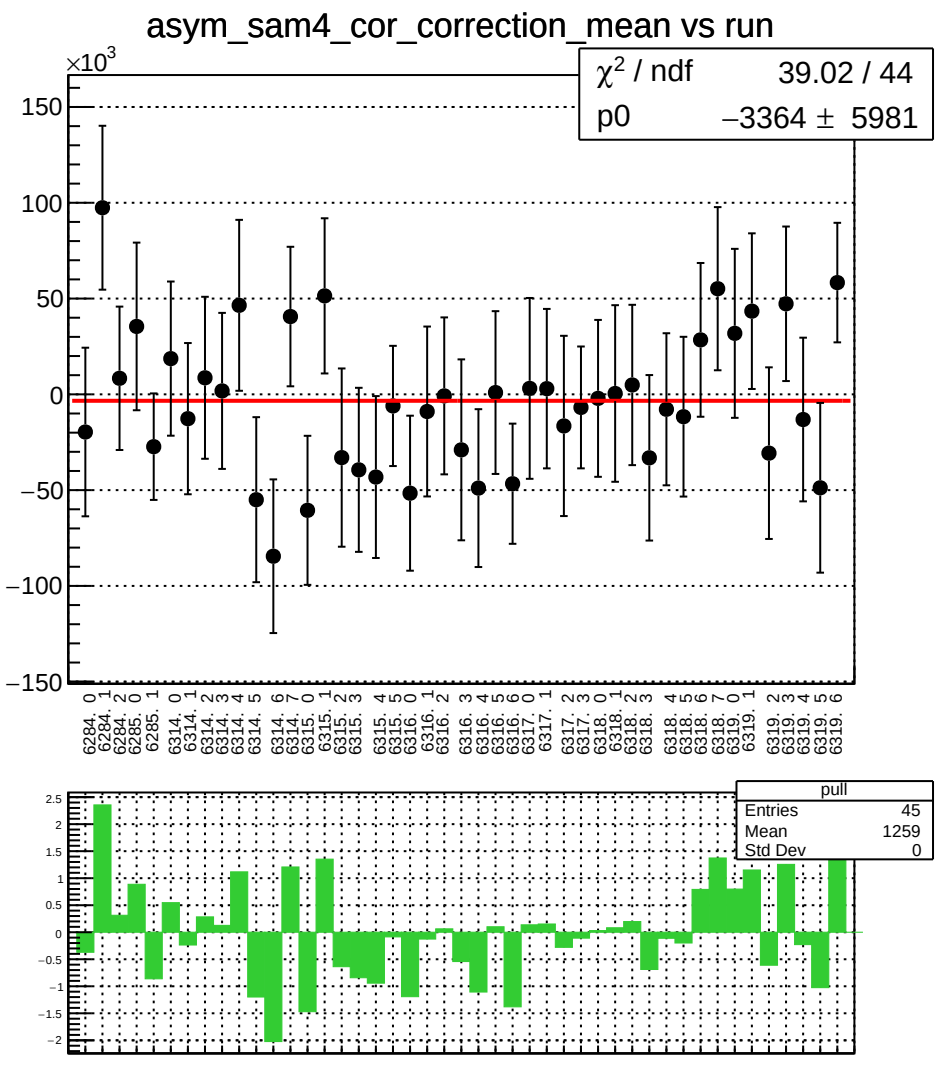
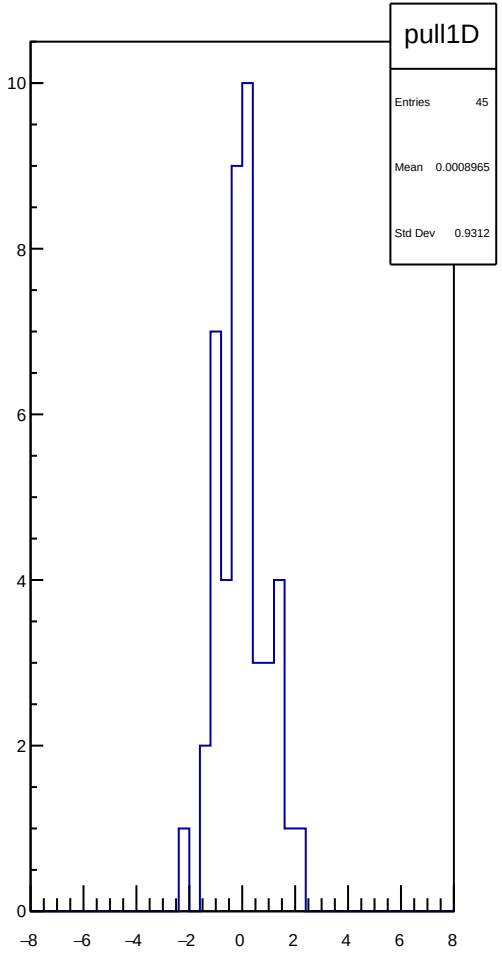
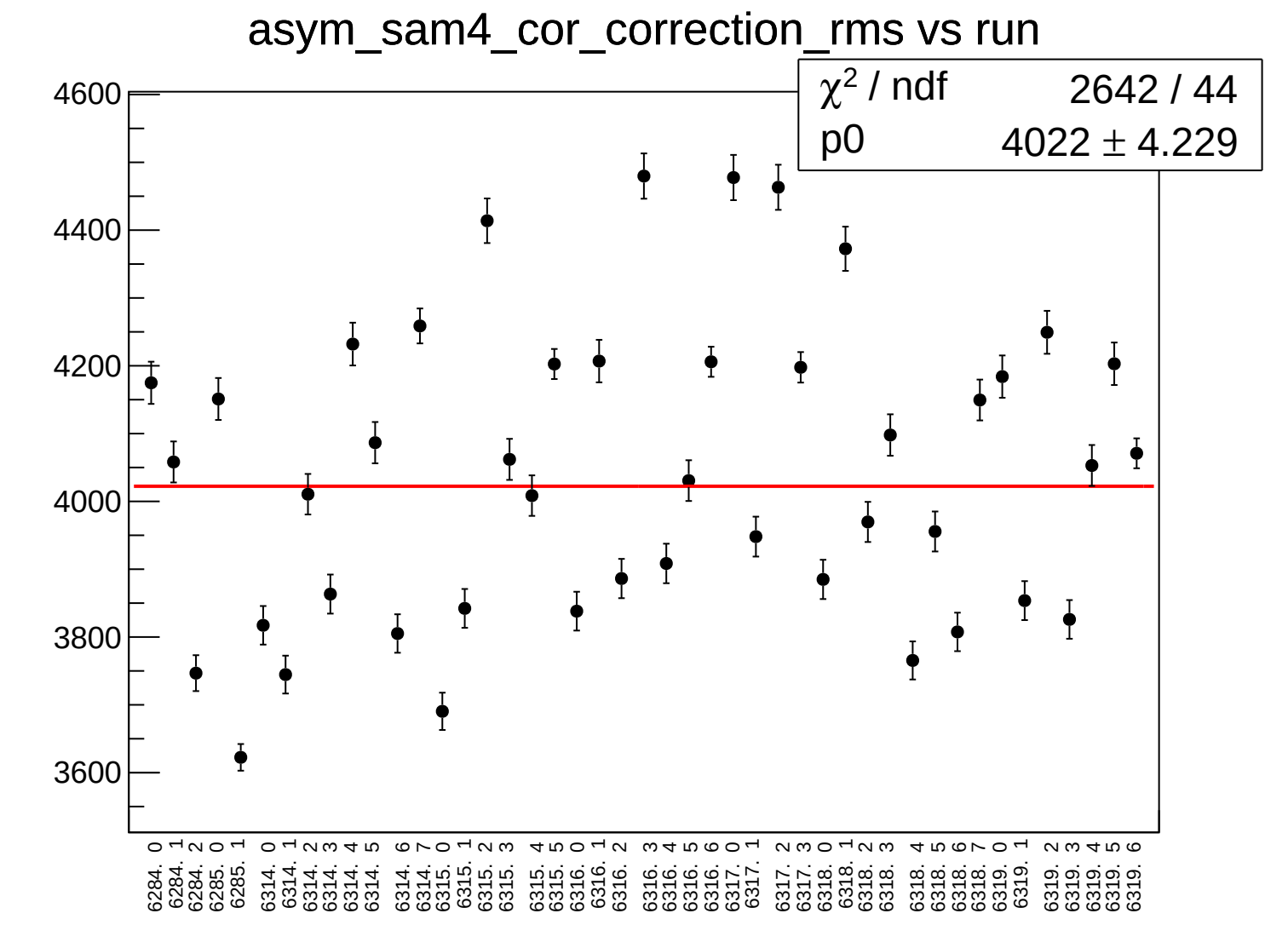
6319. 5
6319. 6


asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 39.02 / 44
p0 −3364 ± 5981
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0008965
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_cor_correction_rms vs run
χ² / ndf 2642 / 44
p0 4022 ± 4.229
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
6315. 4
6315. 5
6316. 0
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6316. 4
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6317. 1
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6318. 0
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6318. 2
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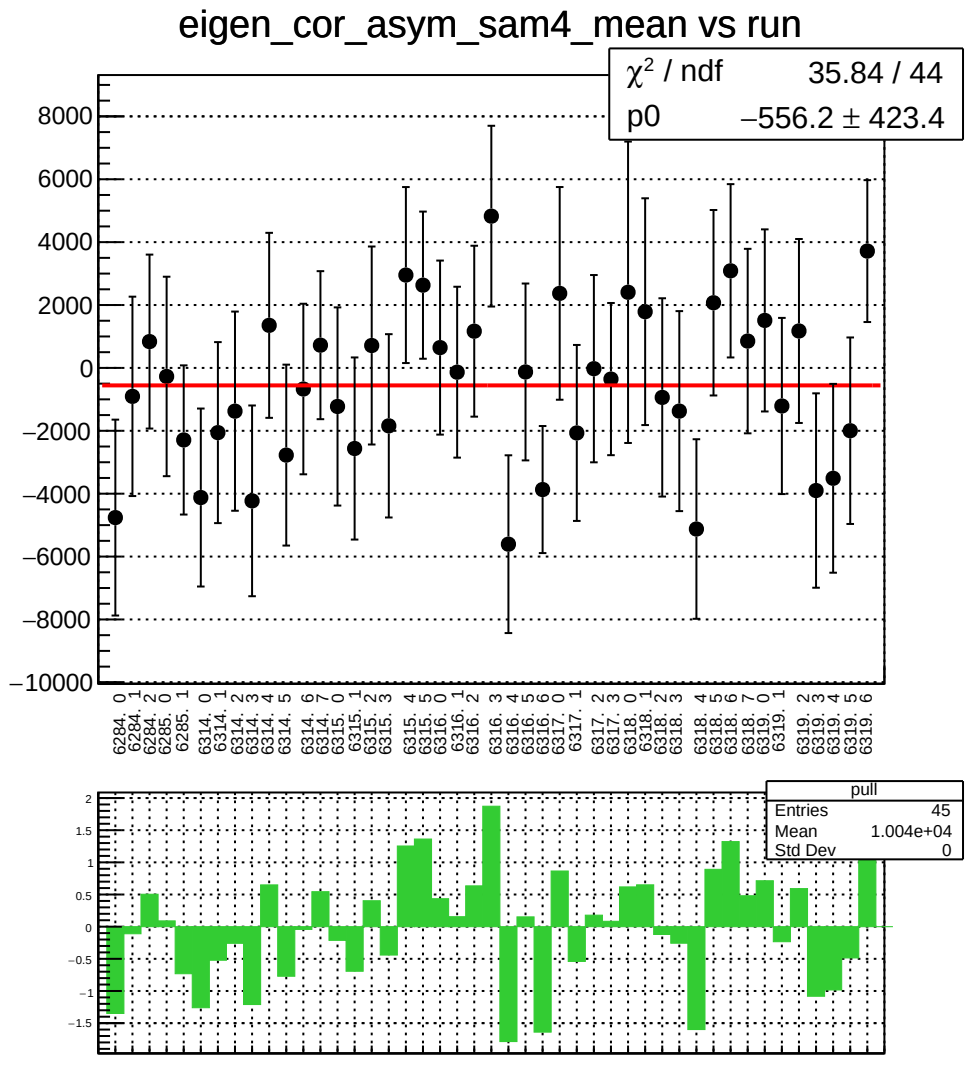
eigen_cor_asym_sam4_mean vs run
χ² / ndf 35.84 / 44
p0 −556.2 ± 423.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 5
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6314. 7
6315. 0
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6315. 2
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6315. 5
6316. 0
6316. 1
6316. 2
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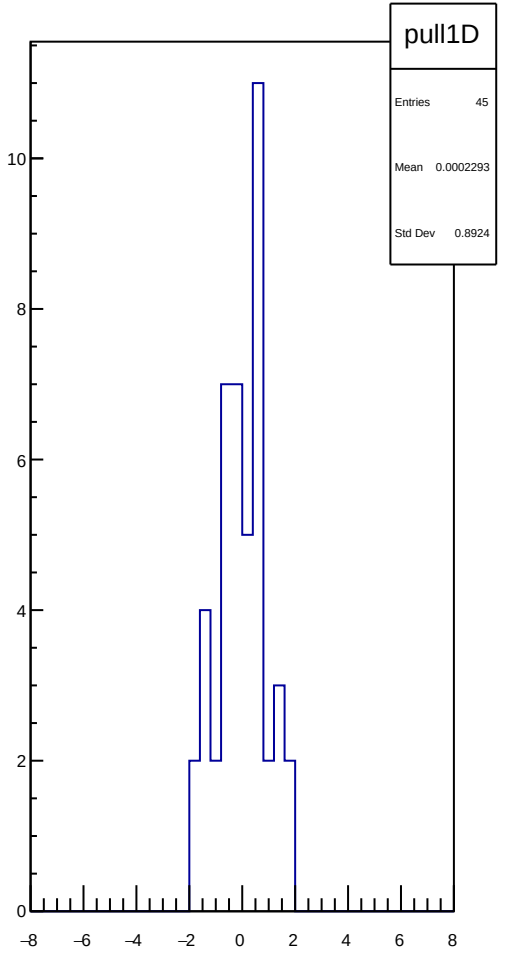
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.004e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.0002293
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
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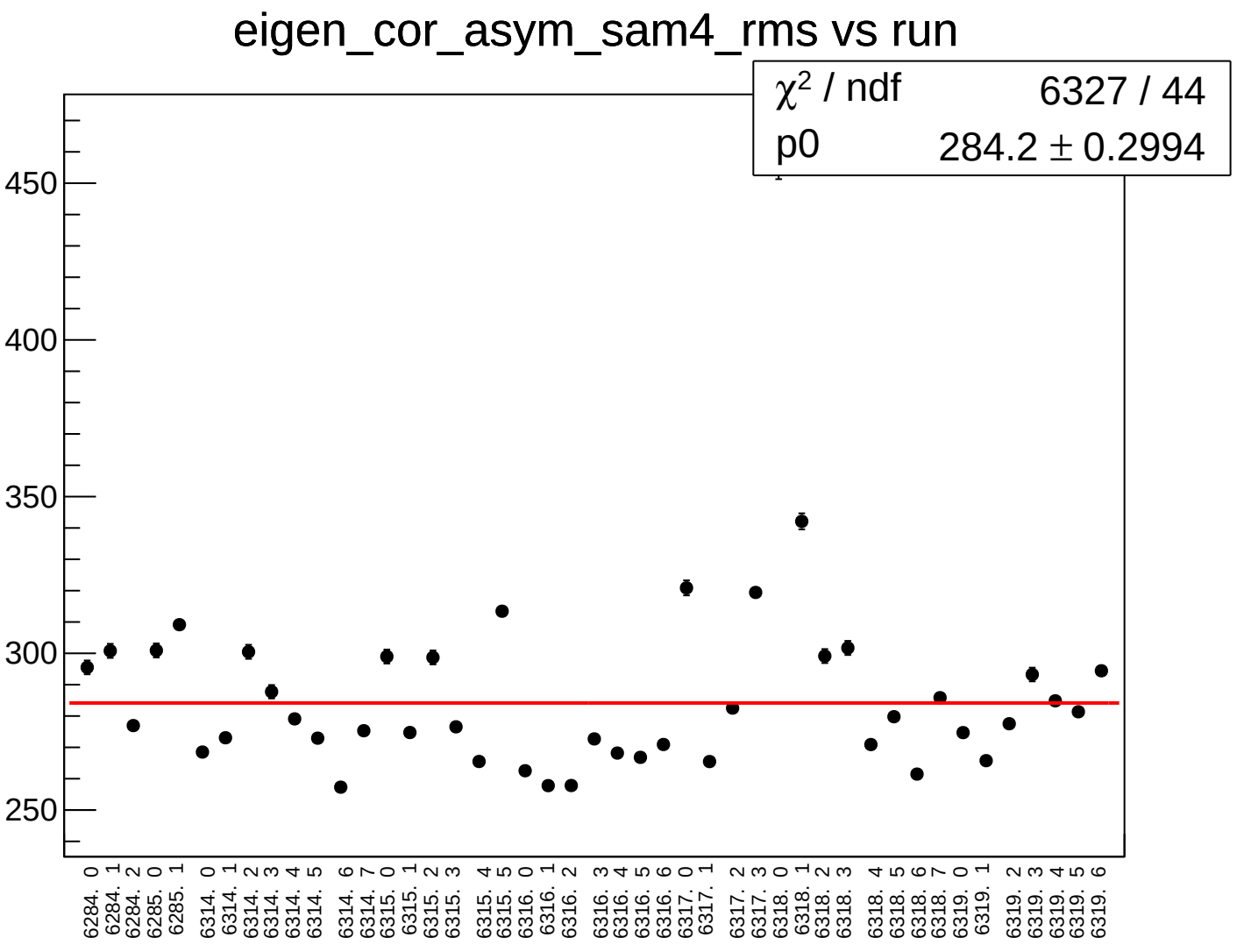
0
2
4
6
8


eigen_cor_asym_sam4_rms vs run
χ² / ndf 6327 / 44
p0 284.2 ± 0.2994
450
400
350
300
250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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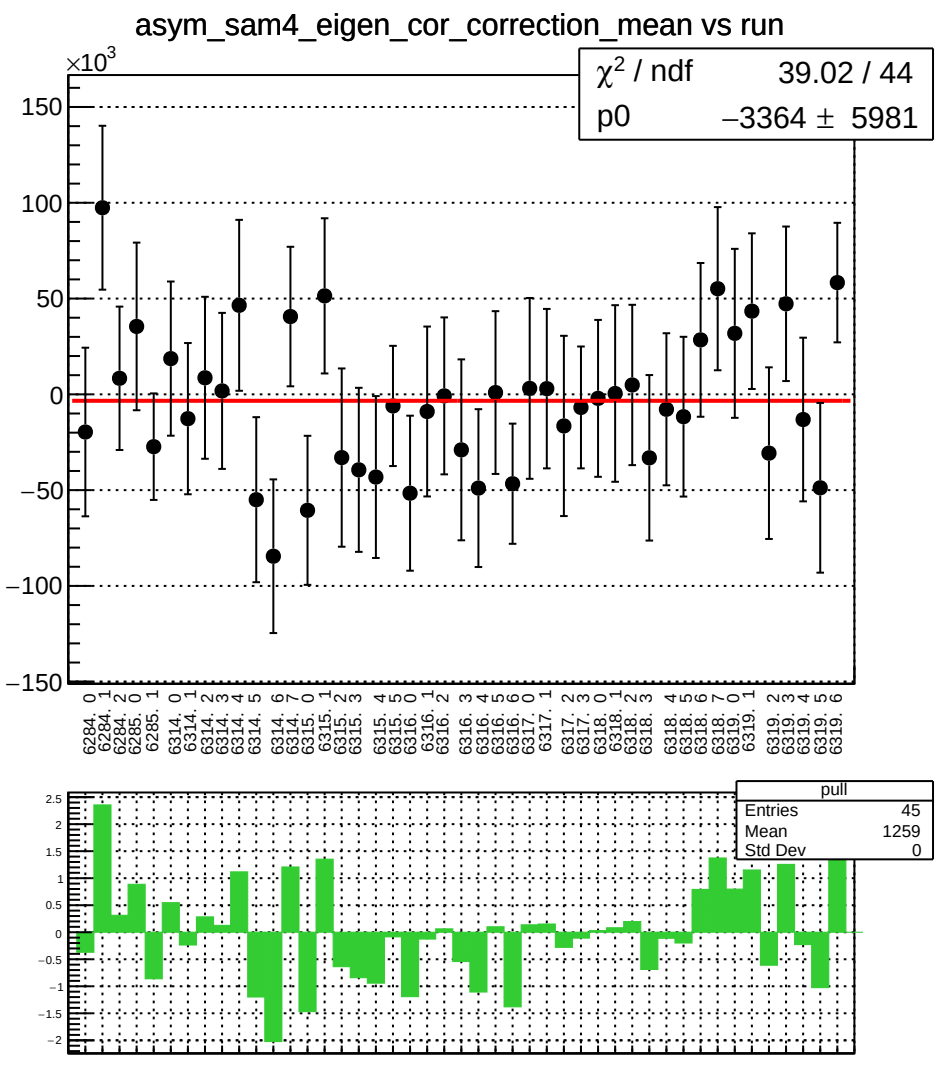
6319. 6


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 39.02 / 44
p0 −3364 ± 5981
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 2
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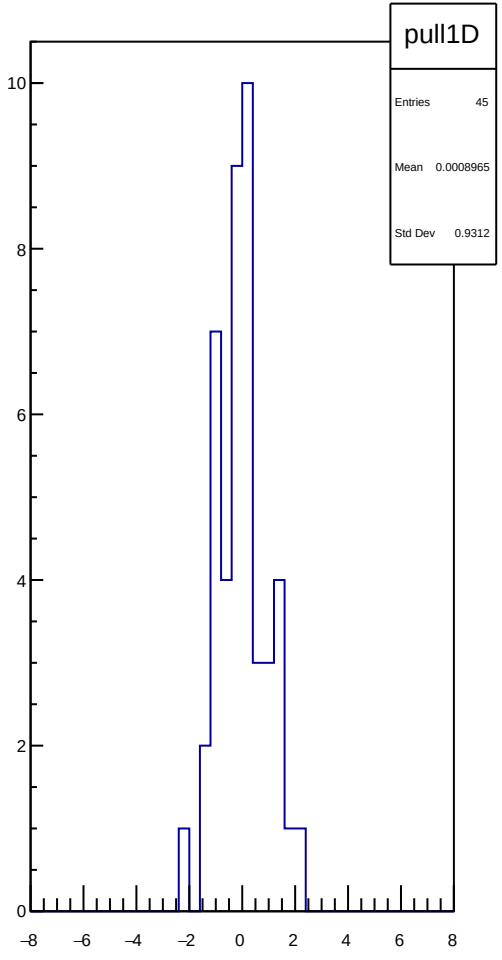
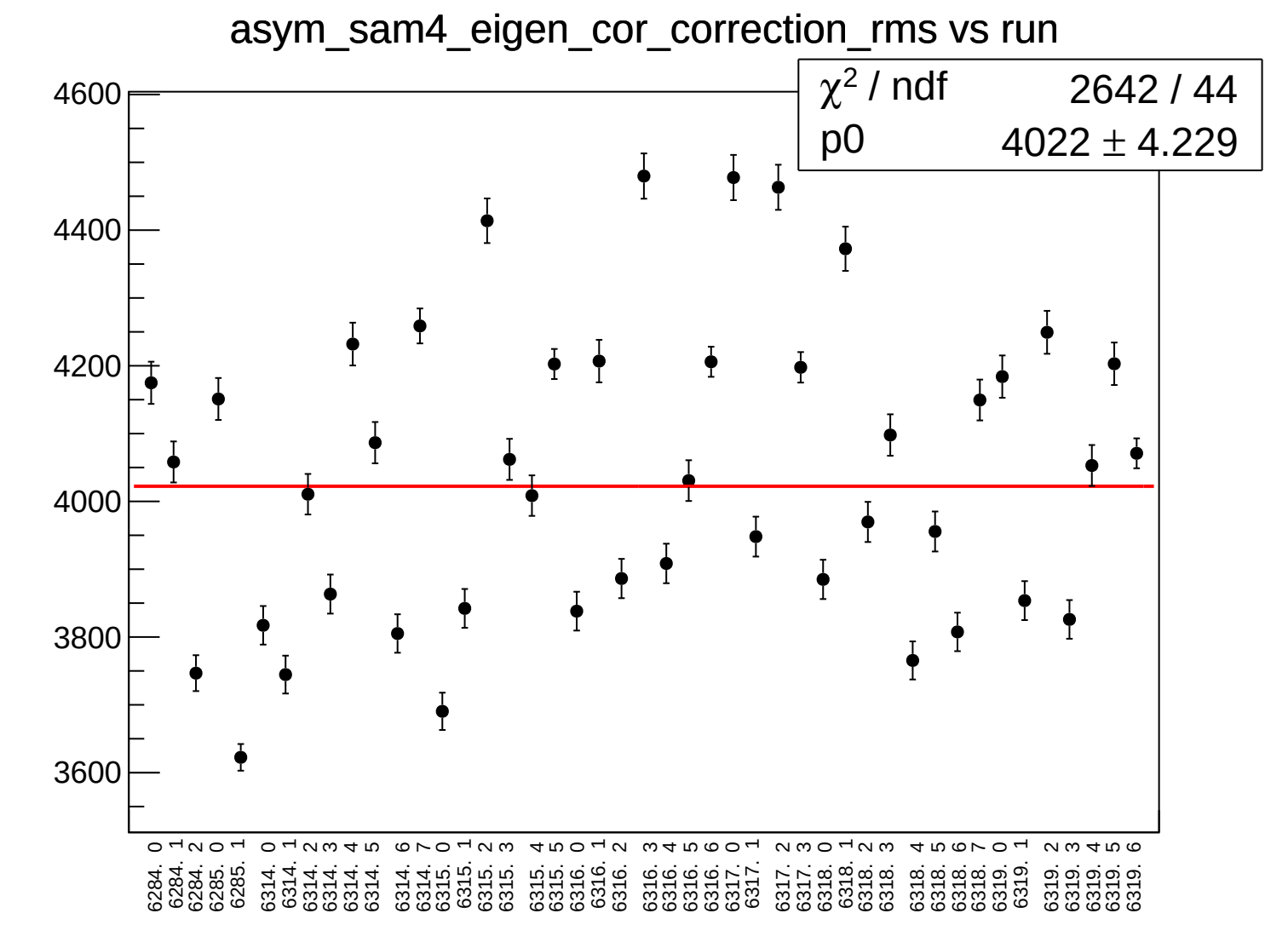
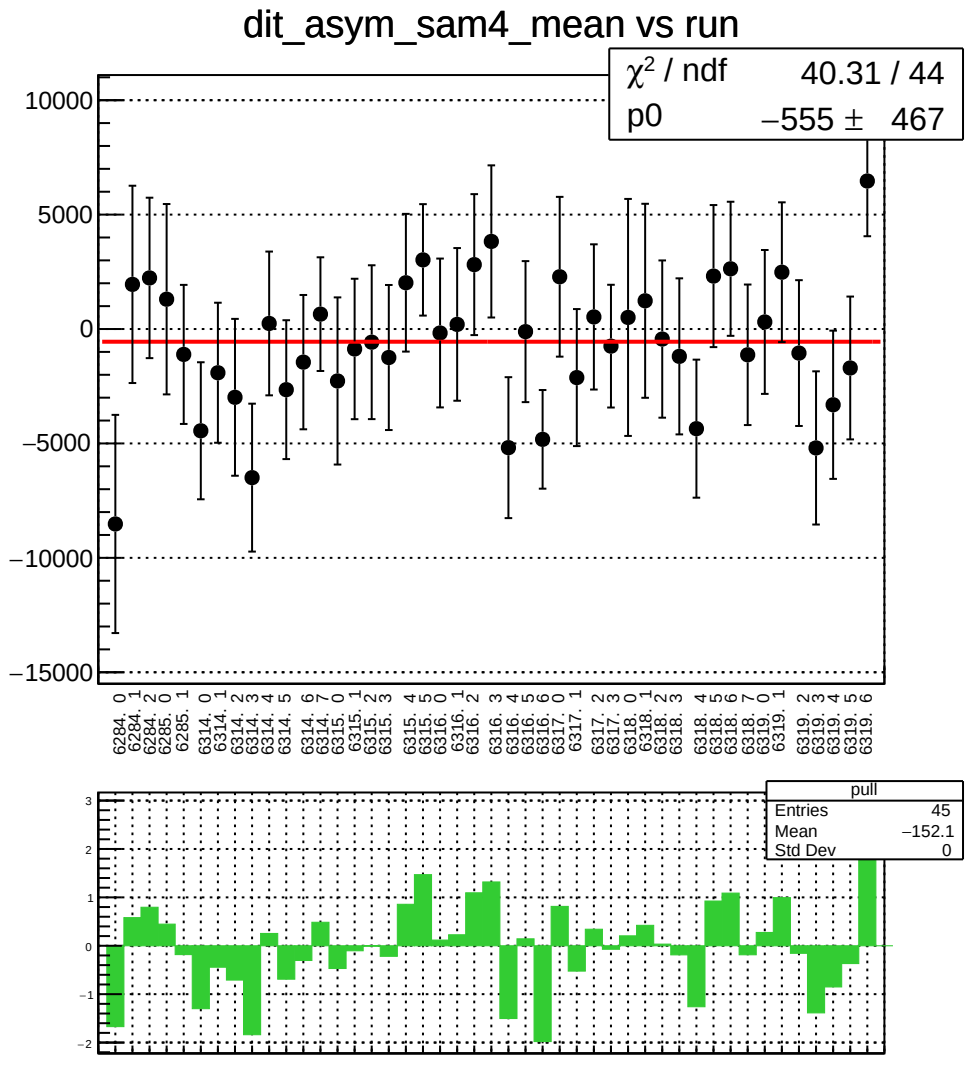
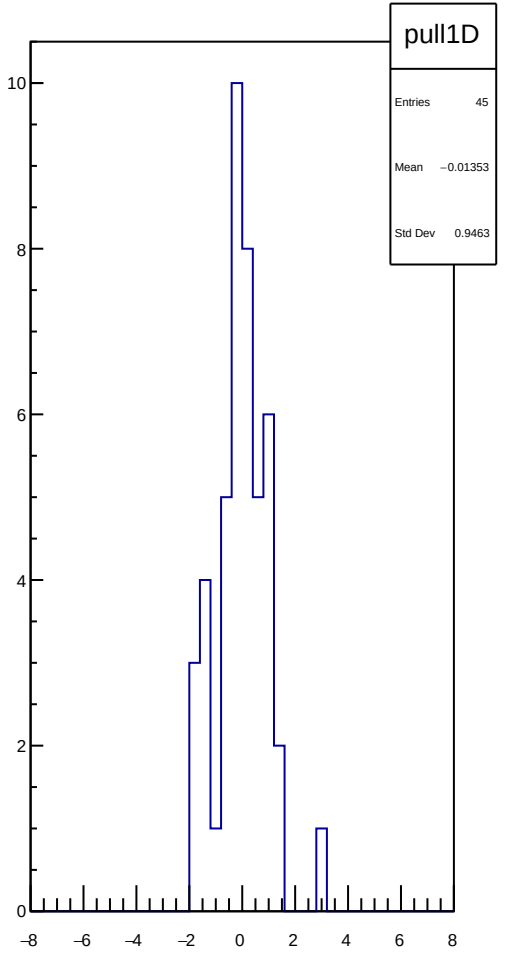
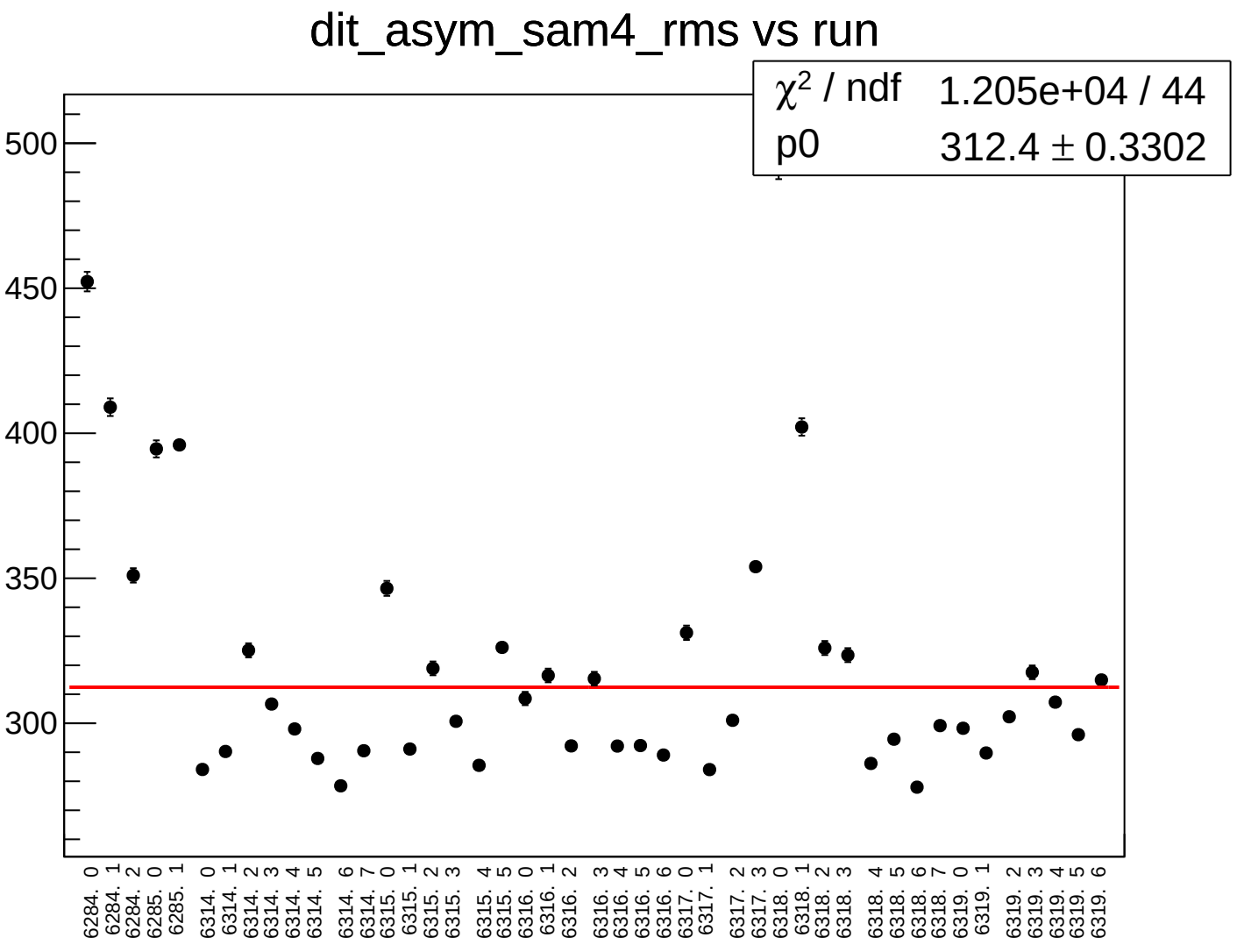
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

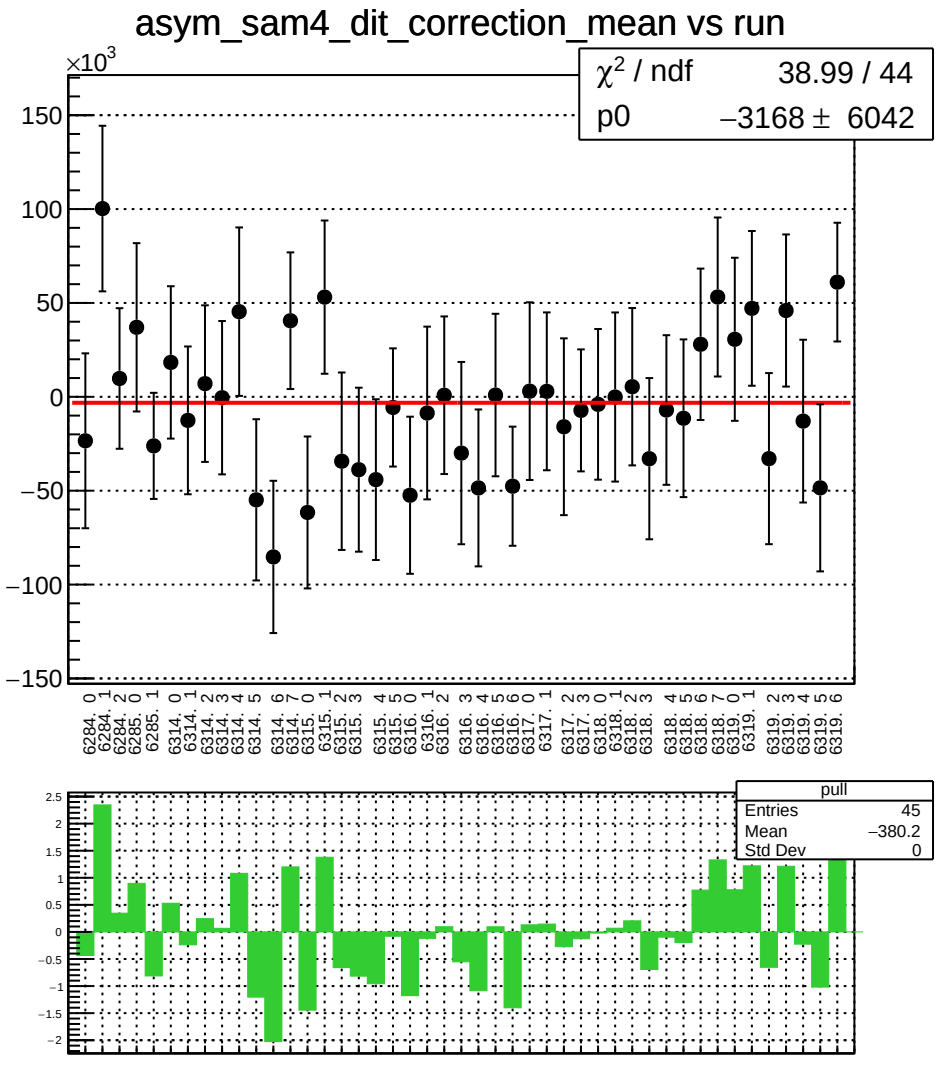

pull1D
Entries 45
Mean 0.0008965
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

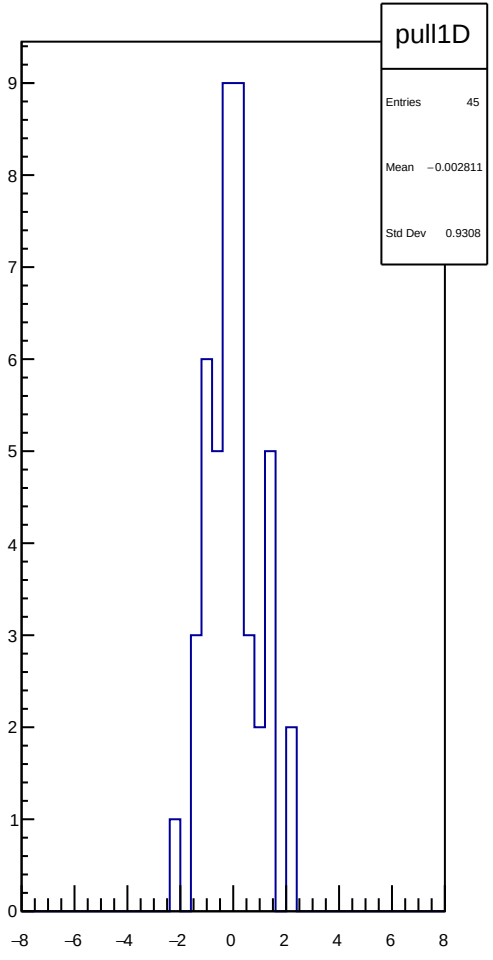

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2642 / 44
p0 4022 ± 4.229
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

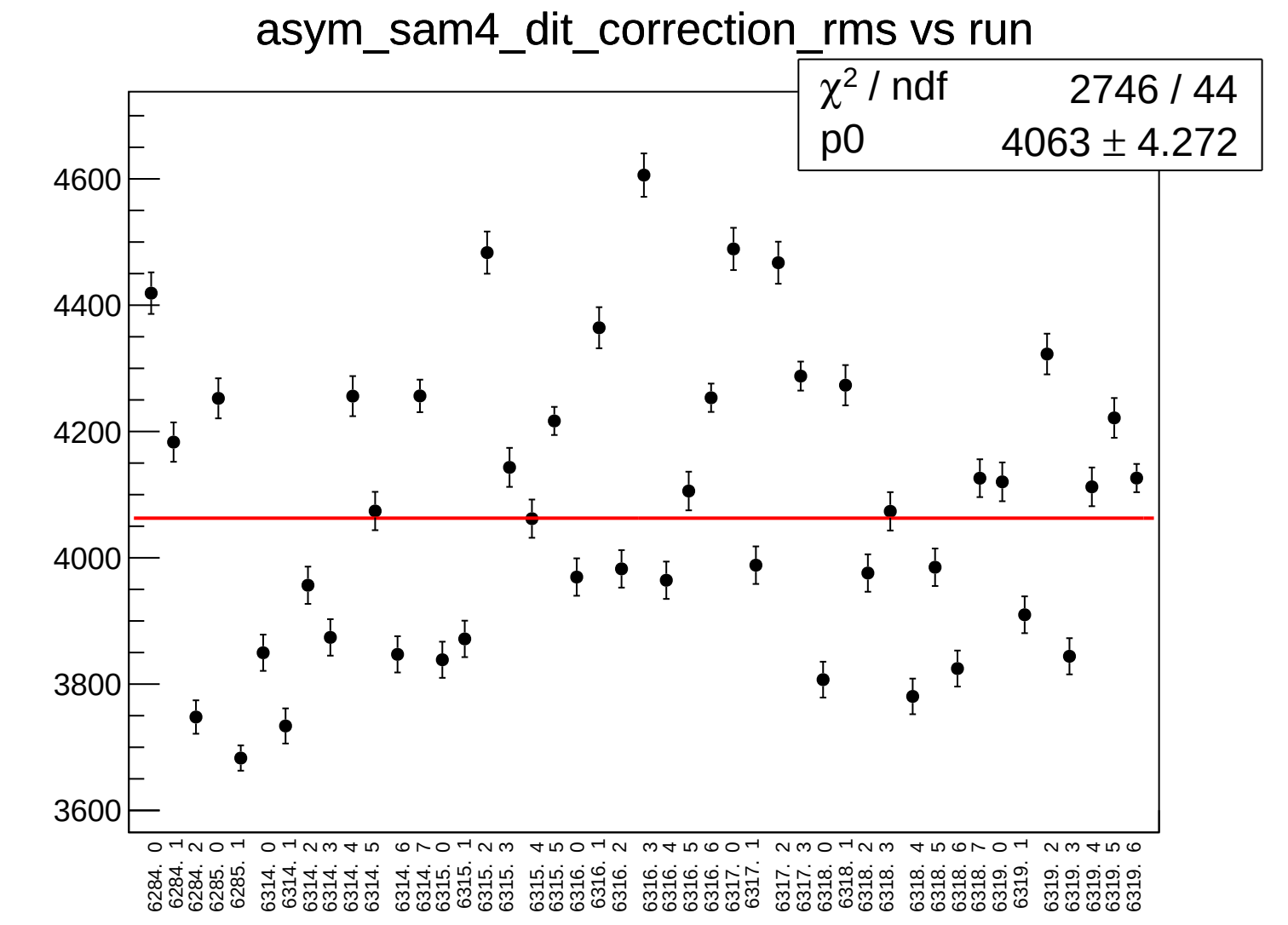

dit_asym_sam4_mean vs run
χ^2 / ndf 40.31 / 44
p0 −555 ± 467
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −152.1
Std Dev 0
3
2
1
0
−1
−2

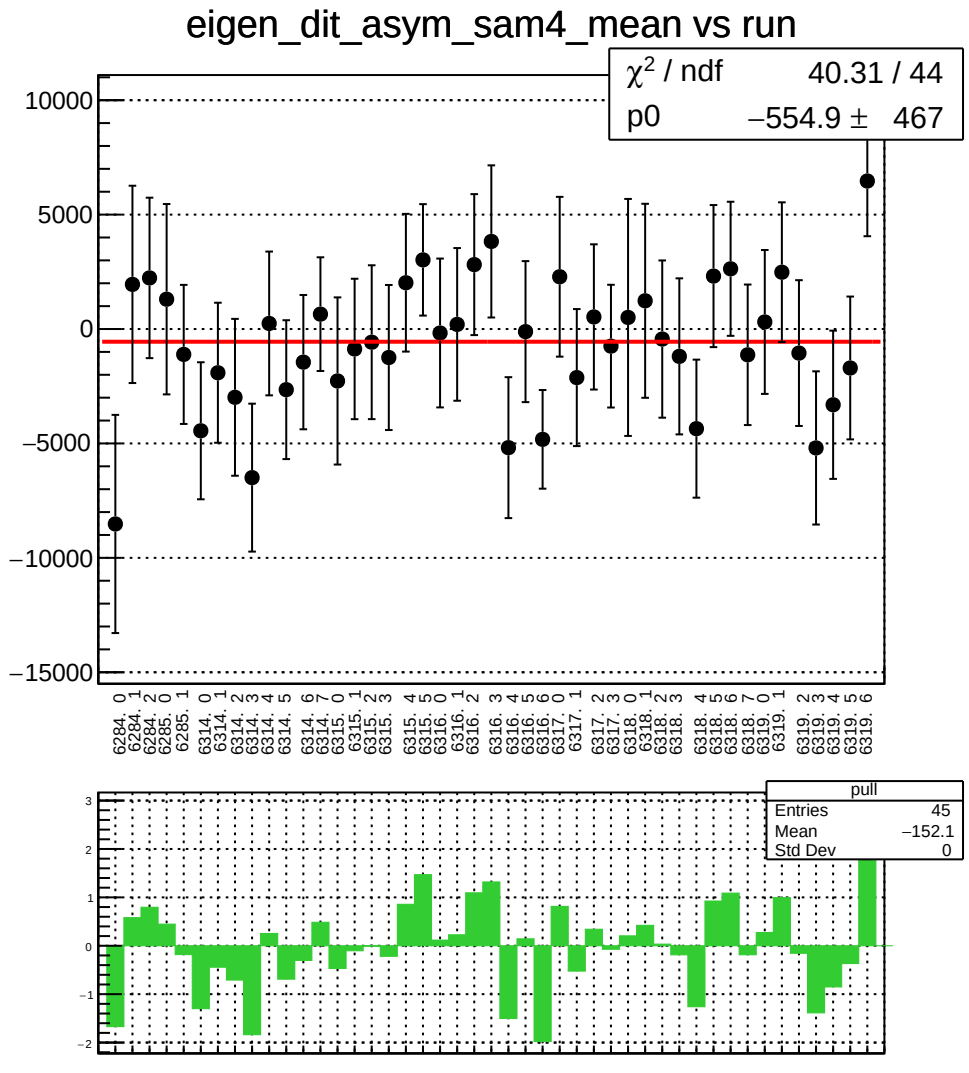

pull1D
Entries 45
Mean −0.01353
Std Dev 0.9463
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

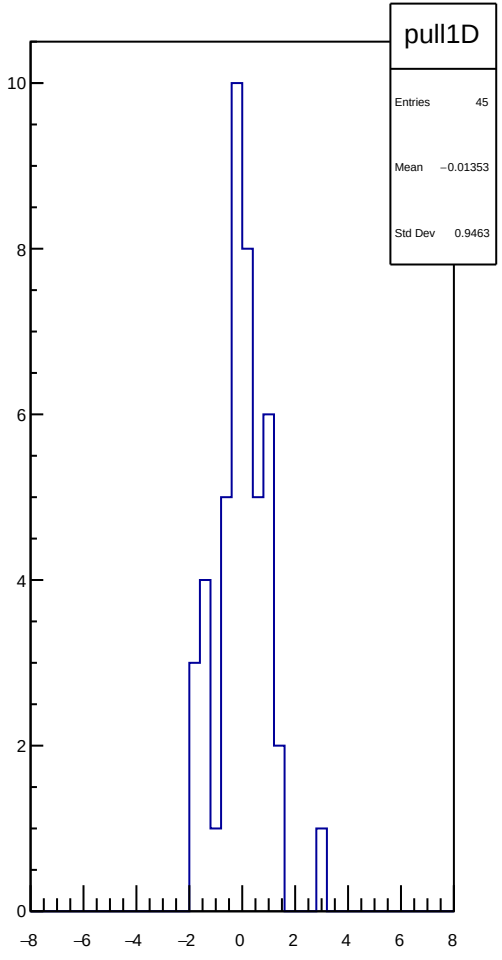

dit_asym_sam4_rms vs run
χ² / ndf 1.205e+04 / 44
p0 312.4 ± 0.3302
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

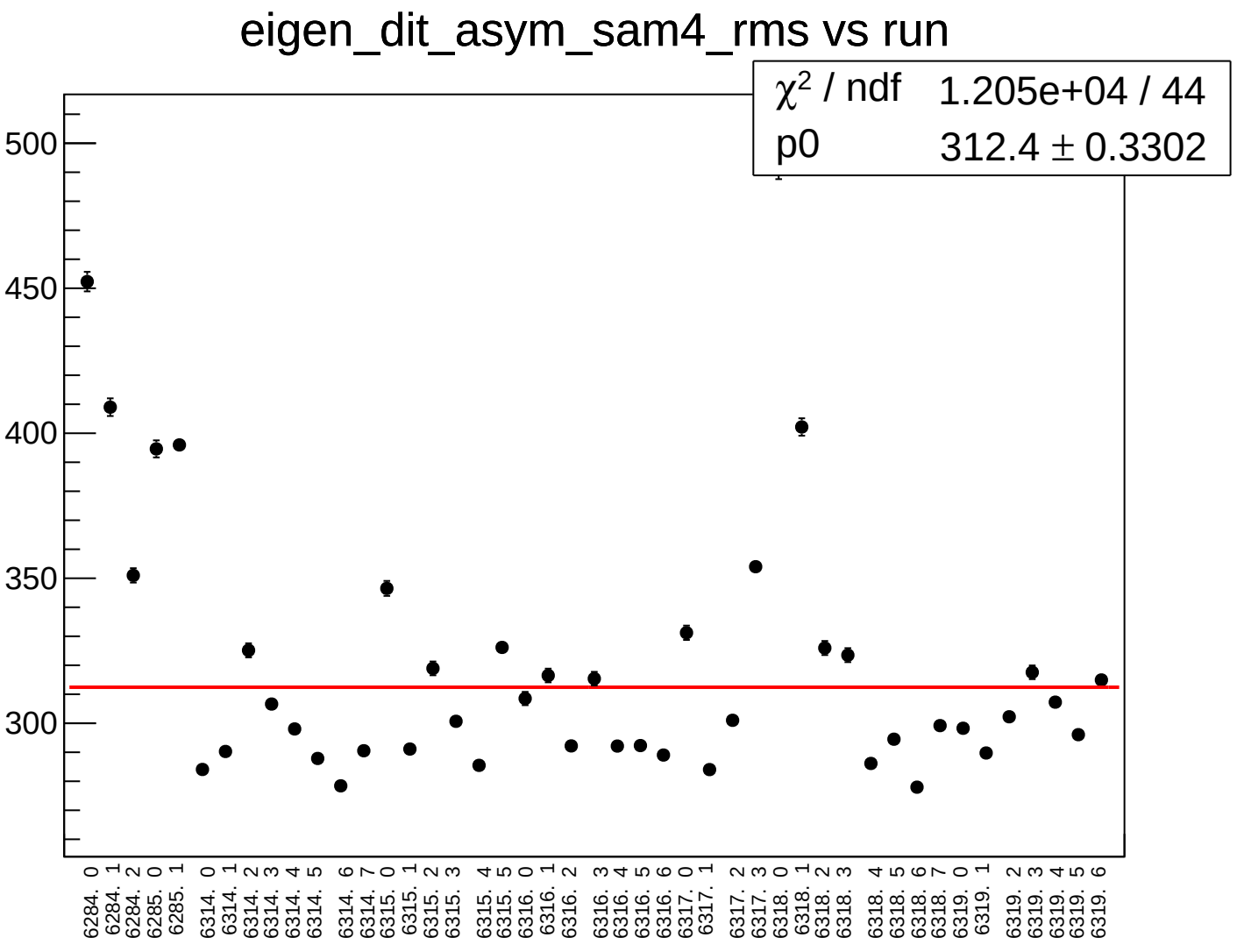

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 38.99 / 44
p0 −3168 ± 6042
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −380.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002811
Std Dev 0.9308
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_dit_correction_rms vs run
χ² / ndf 2746 / 44
p0 4063 ± 4.272
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam4_mean vs run
χ² / ndf 40.31 / 44
p0 −554.9 ± 467
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −152.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01353
Std Dev 0.9463
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.205e+04 / 44
p0 312.4 ± 0.3302
500
450
400
350
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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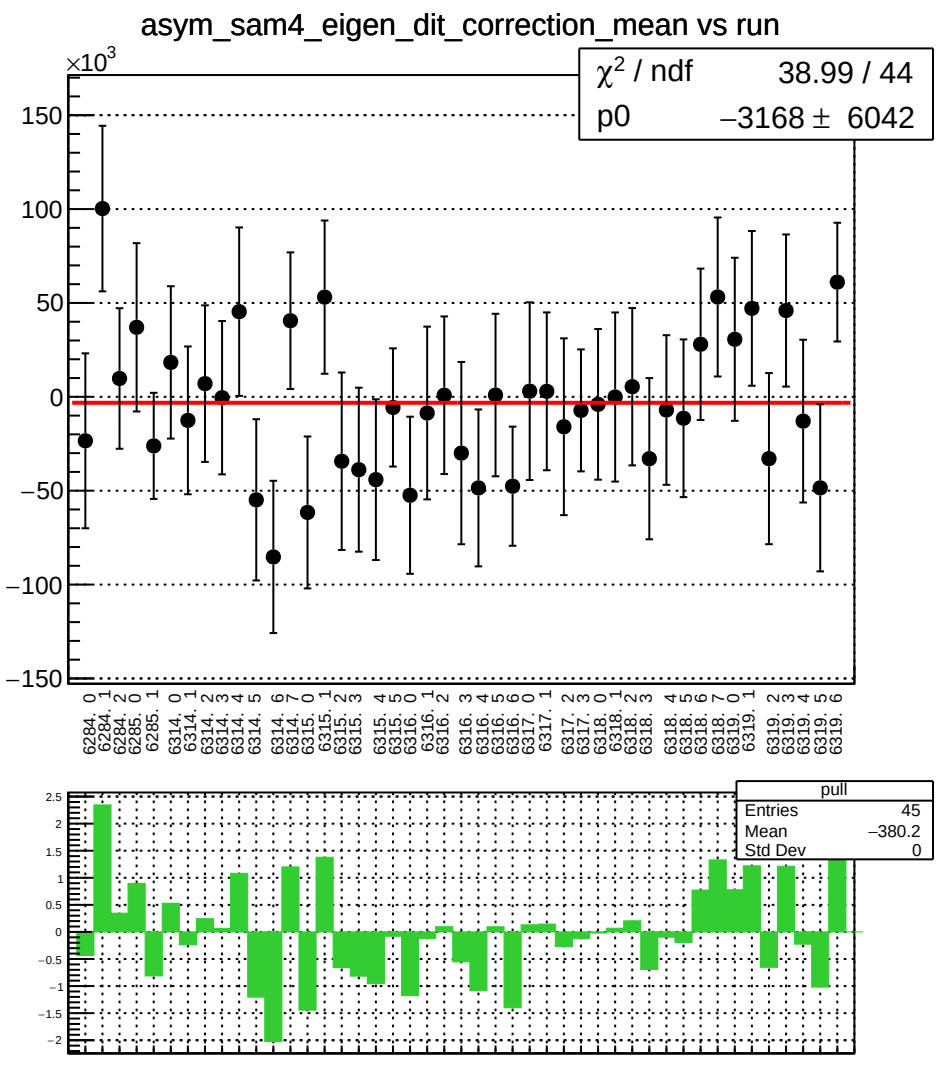
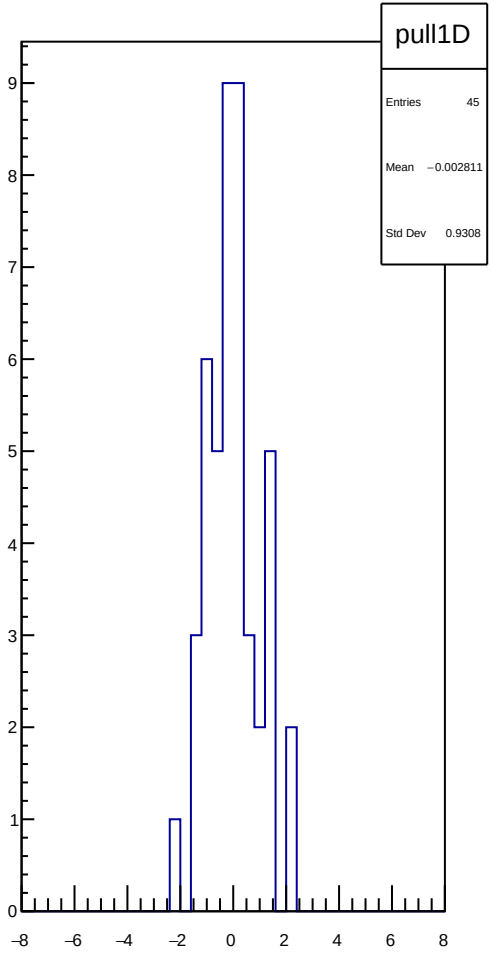
6319. 5
6319. 6


asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 38.99 / 44
p0 −3168 ± 6042
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −380.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002811
Std Dev 0.9308
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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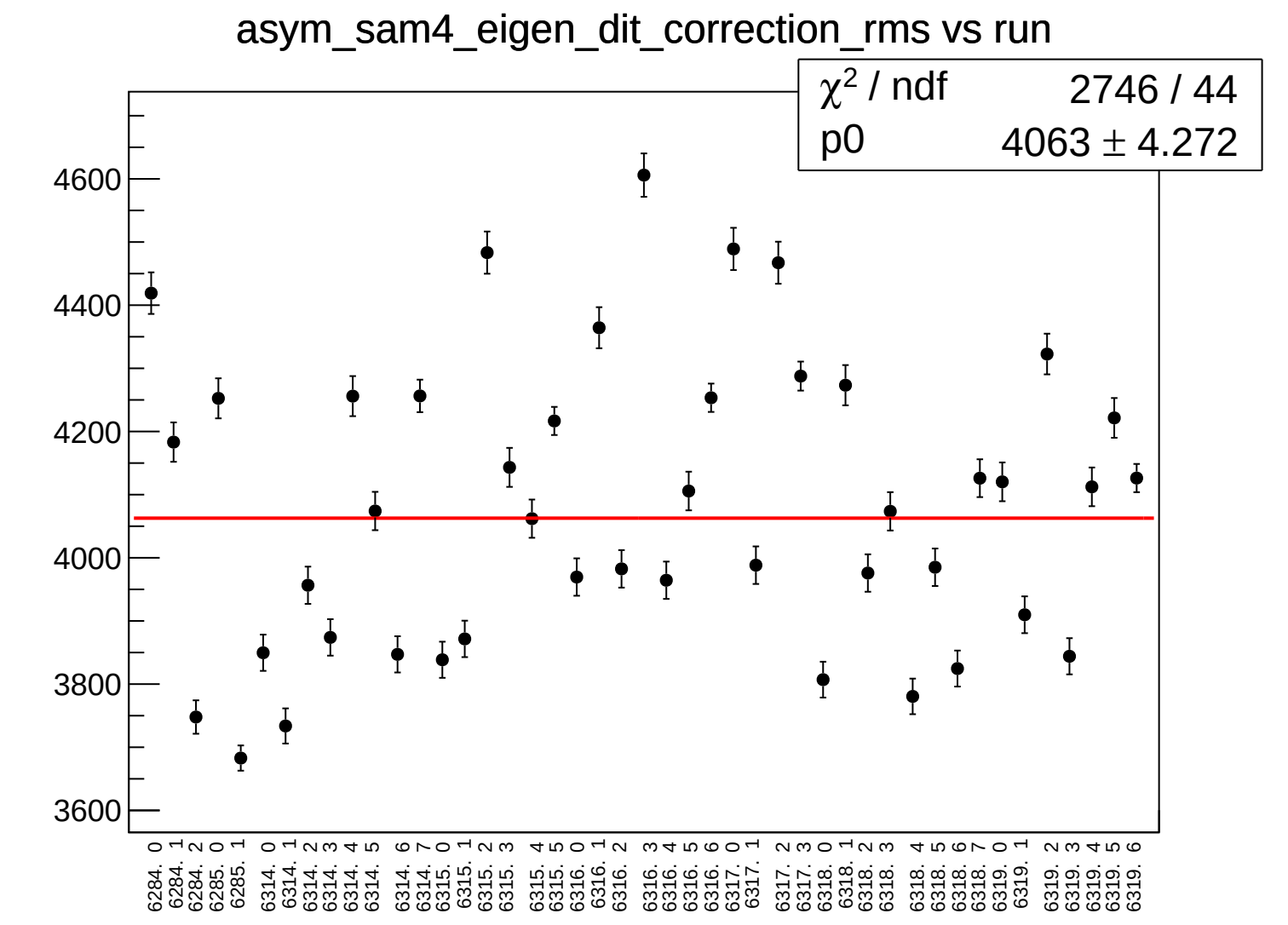
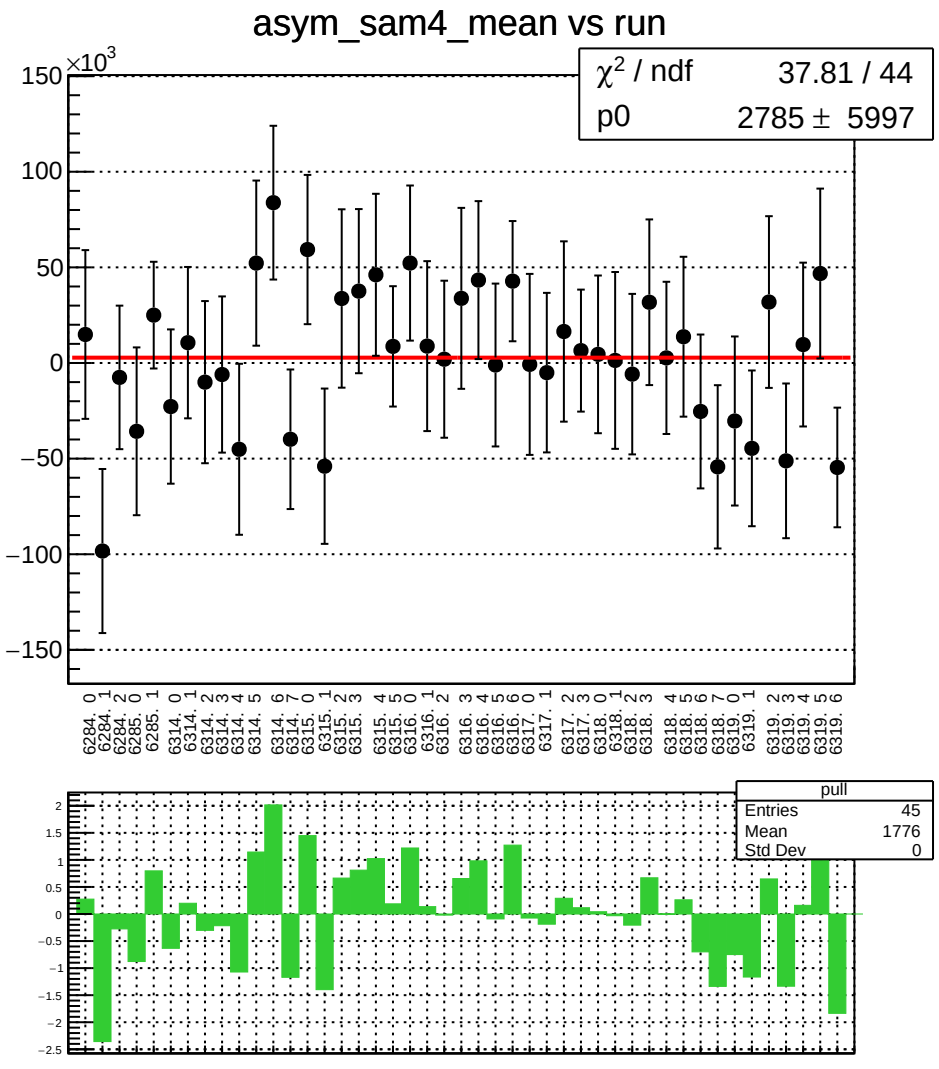
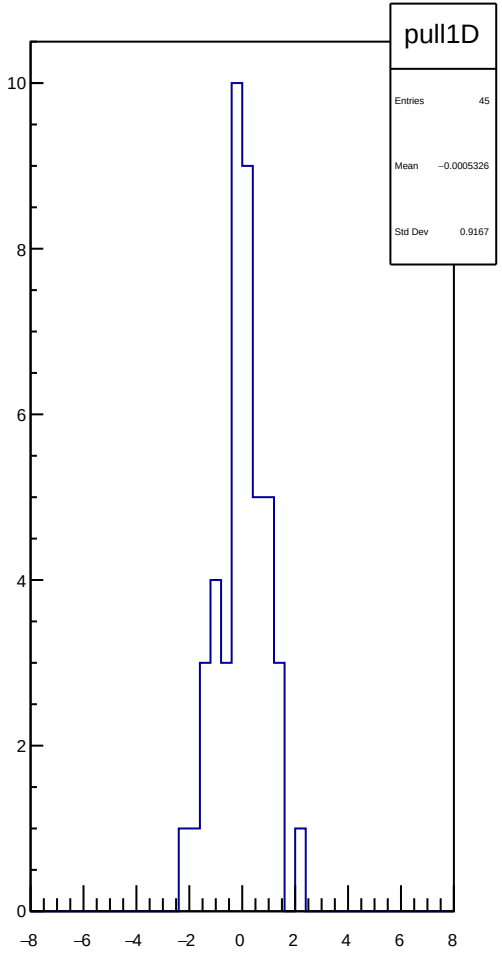
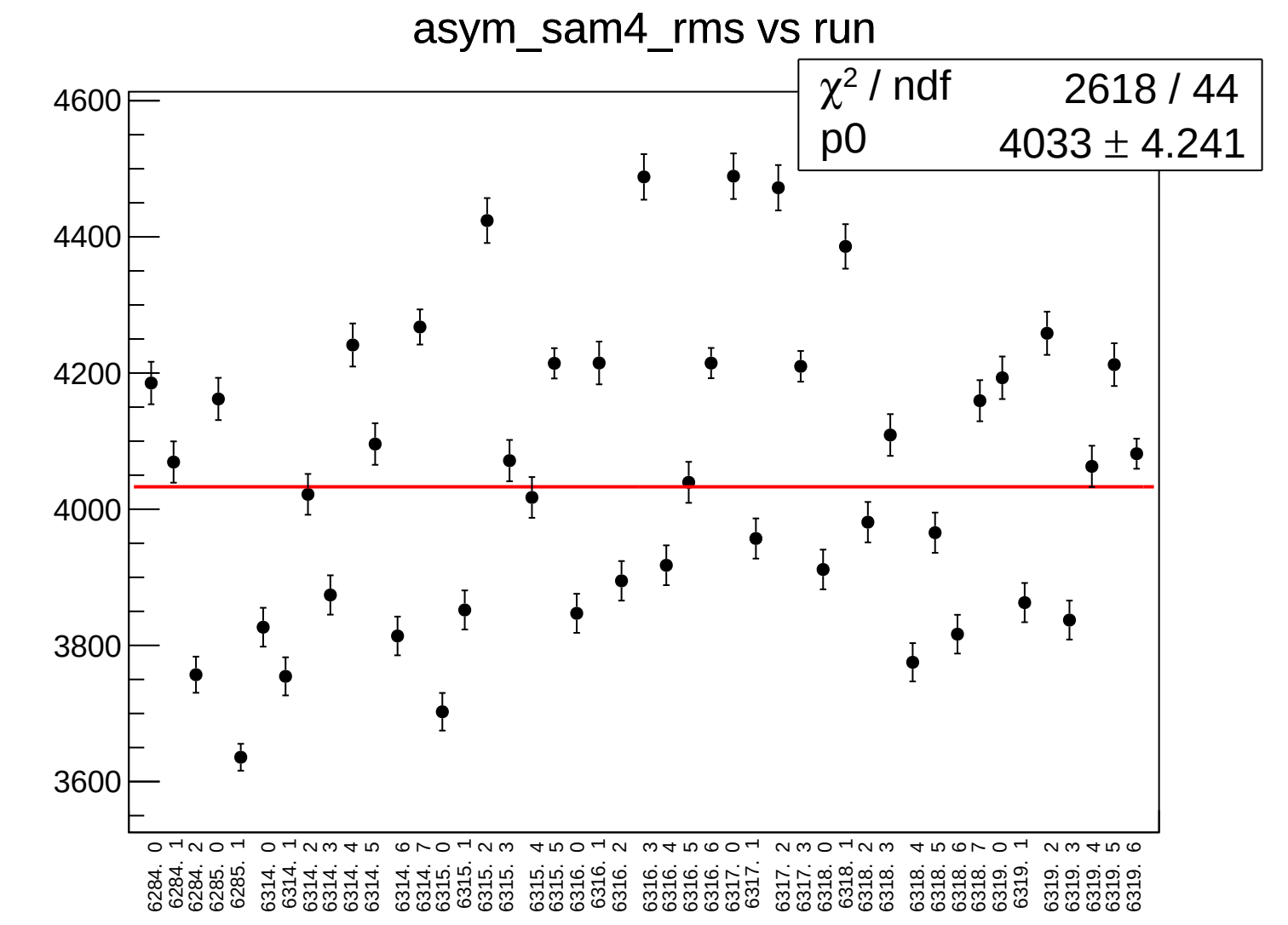
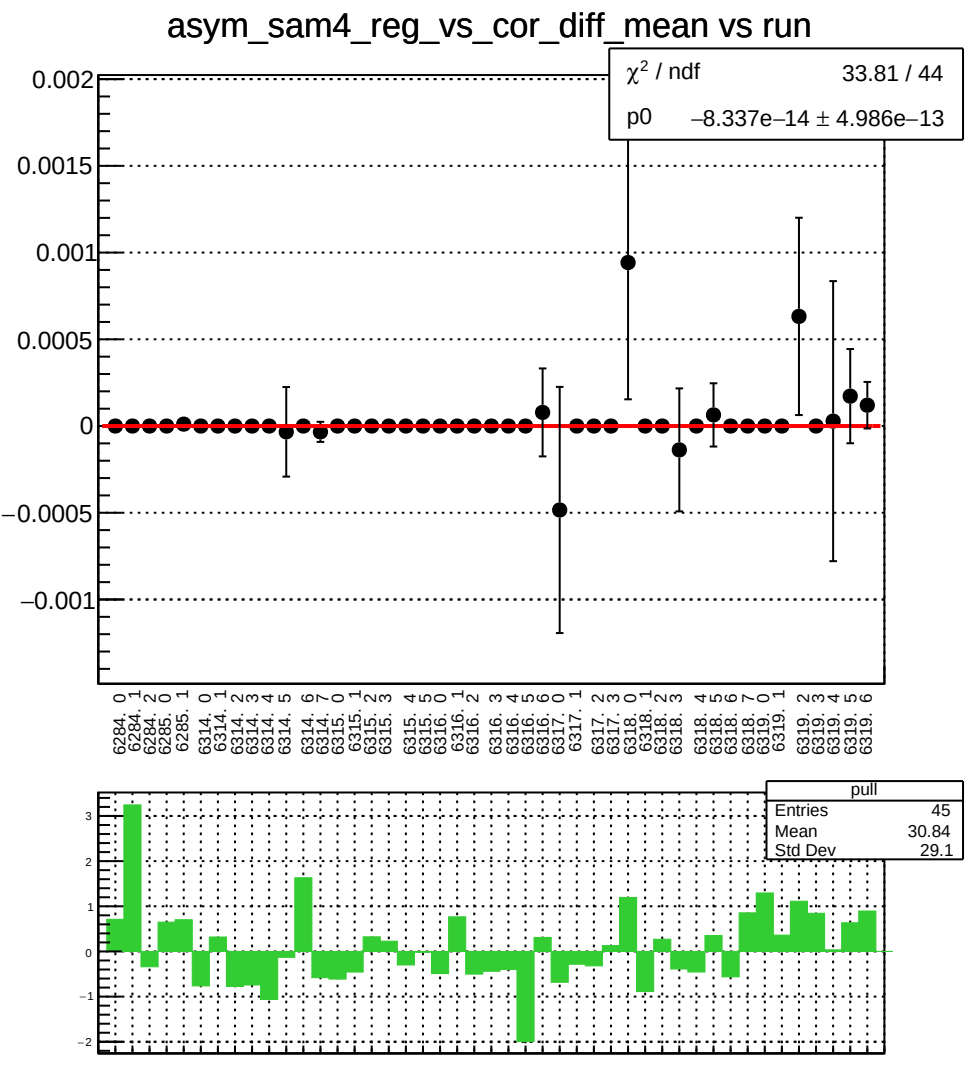
2
4
6
8

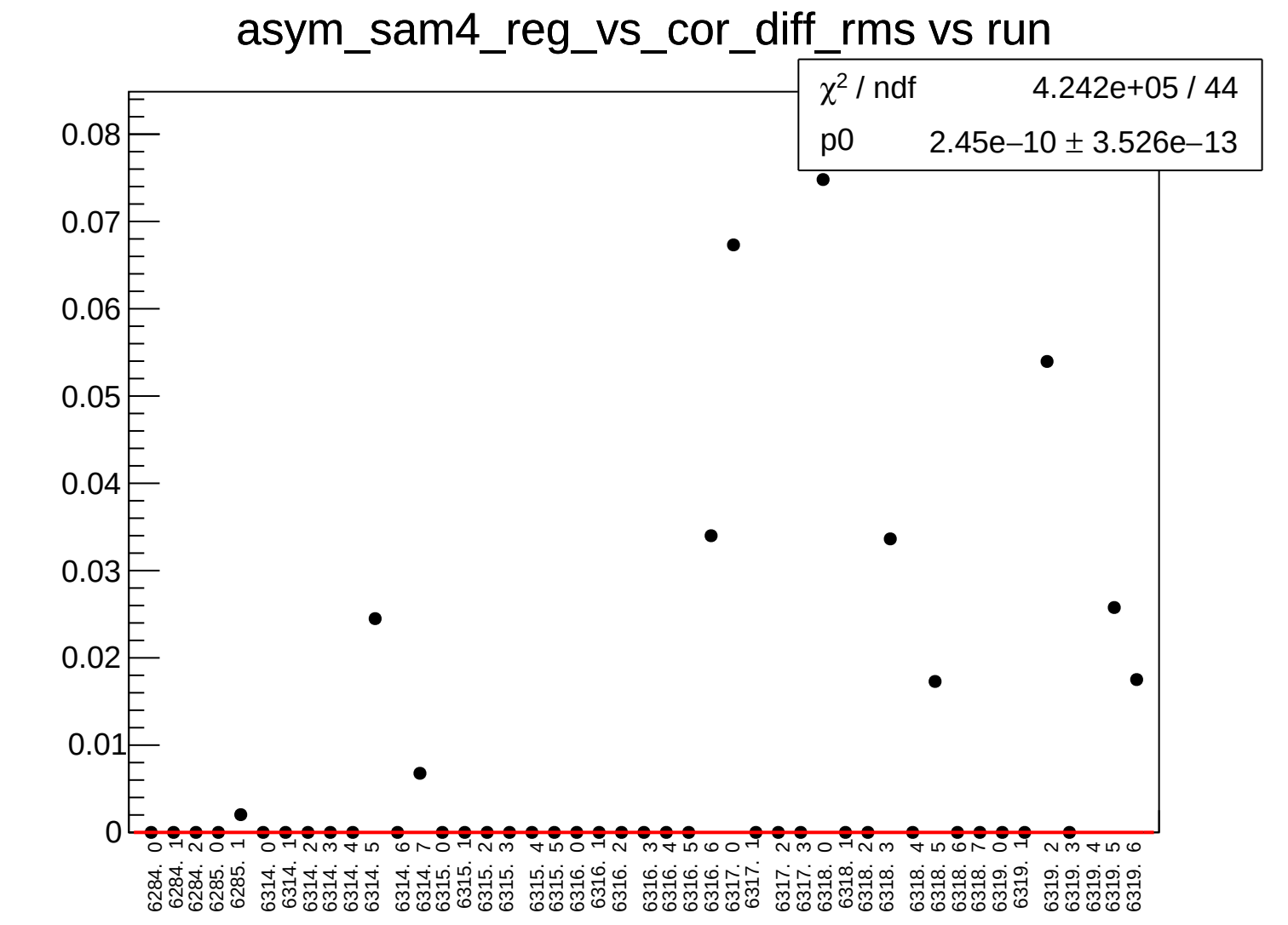

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2746 / 44
p0 4063 ± 4.272
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

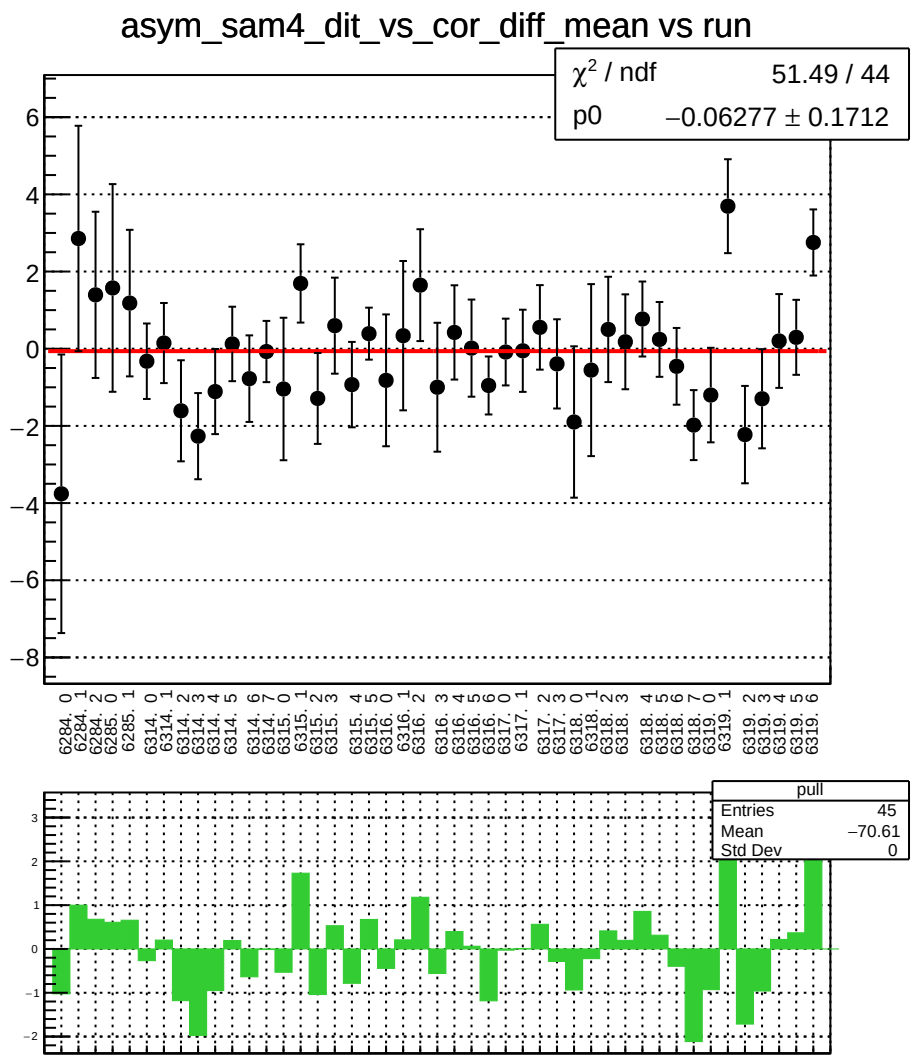

asym_sam4_mean vs run
χ² / ndf 37.81 / 44
p0 2785 ± 5997
×10³
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1776
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

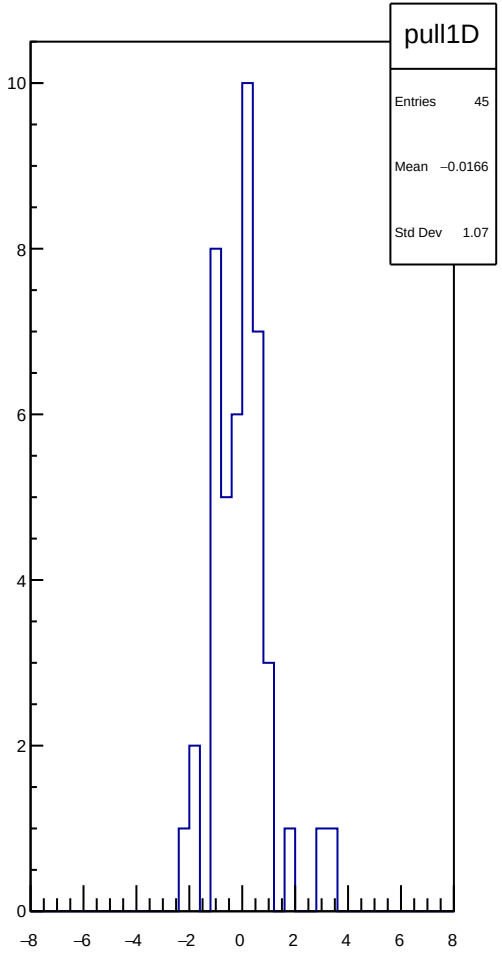

pull1D
Entries 45
Mean −0.0005326
Std Dev 0.9167
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

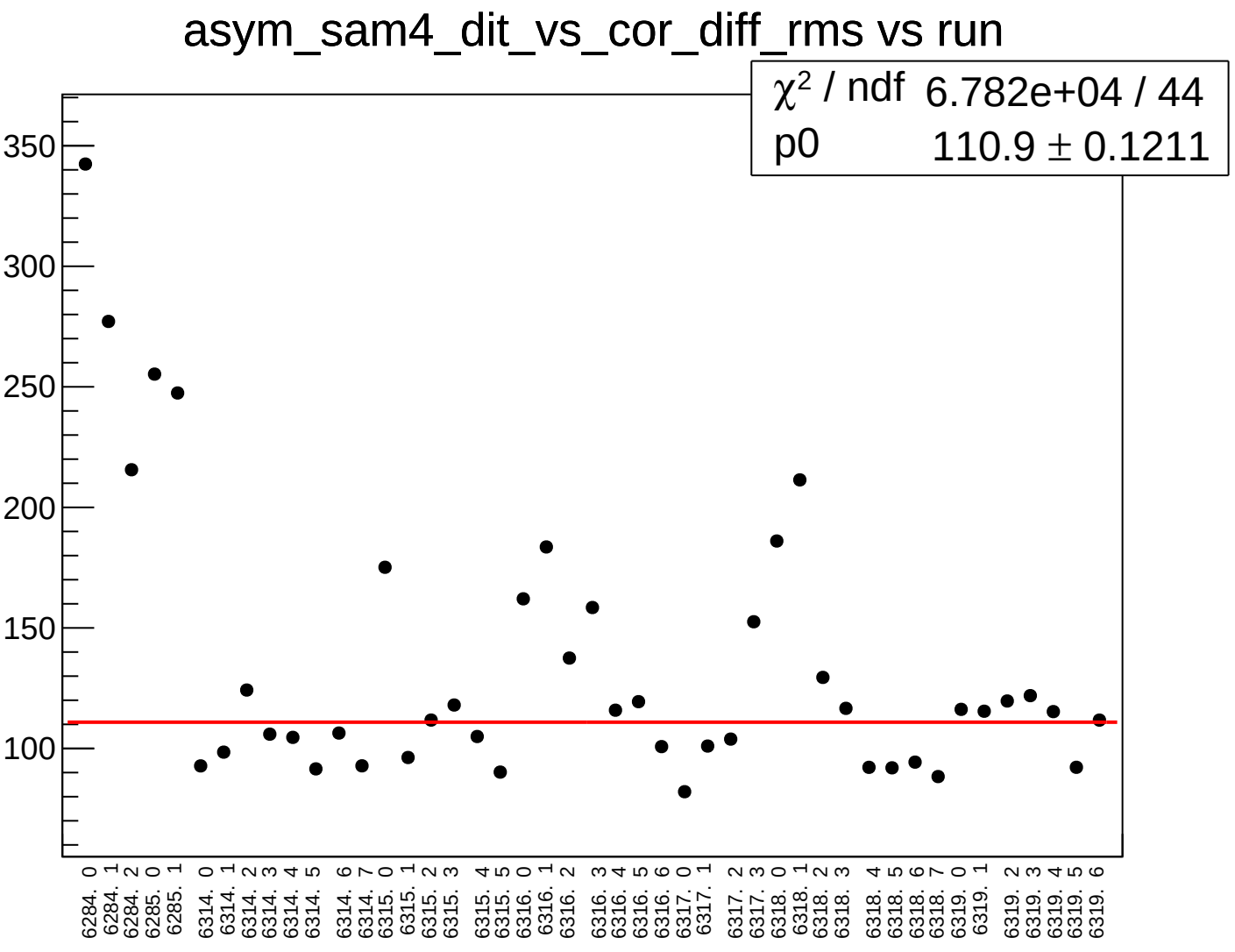

asym_sam4_rms vs run
χ² / ndf 2618 / 44
p0 4033 ± 4.241
4600
4400
4200
4000
3800
3600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

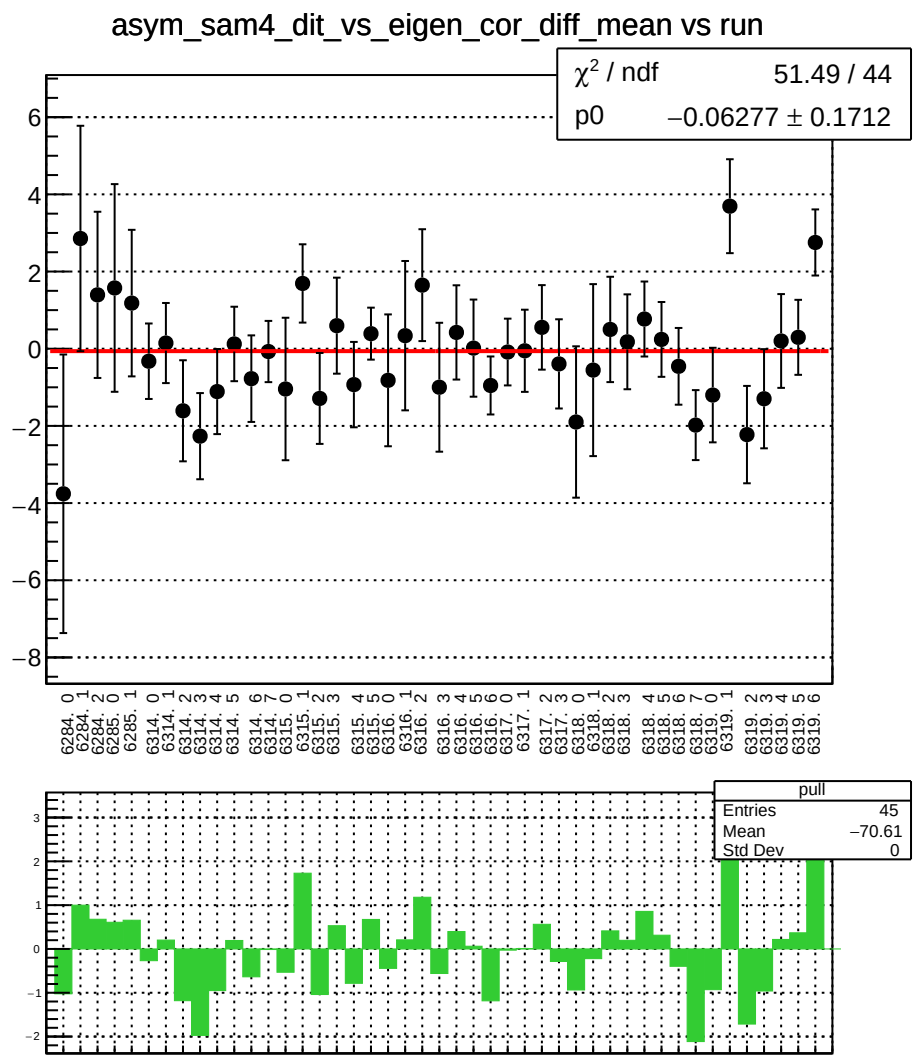

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 33.81 / 44
p0 −8.337e−14 ± 4.986e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 30.84
Std Dev 29.1
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.08197
Std Dev 0.863
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

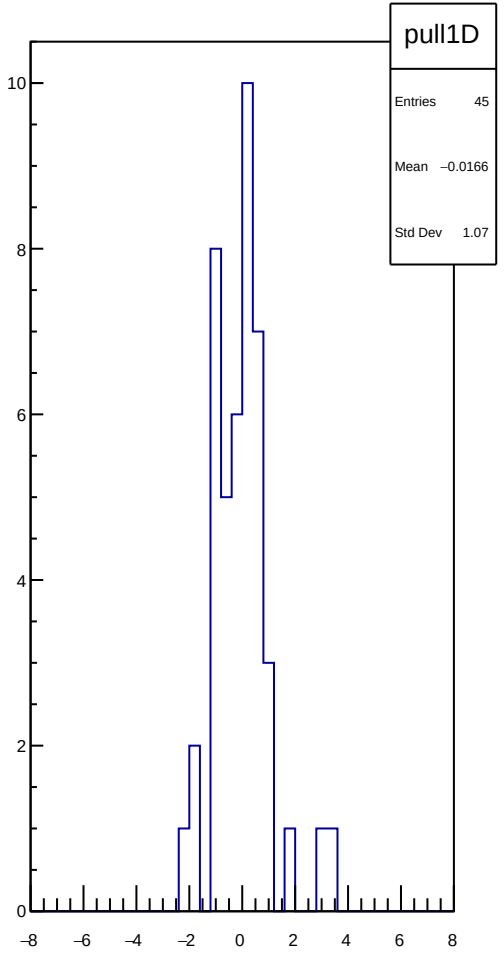

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.242e+05 / 44
p0 2.45e−10 ± 3.526e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

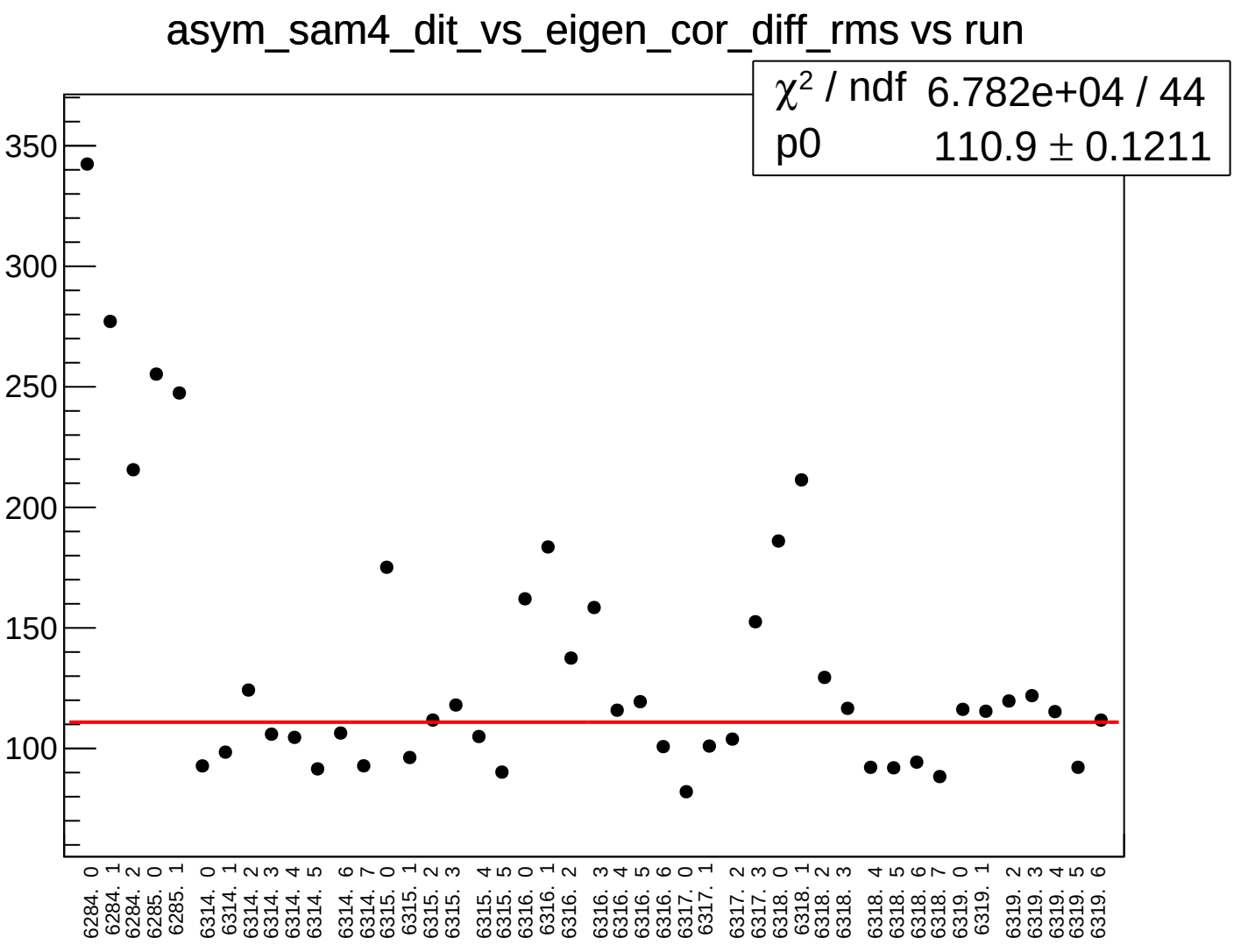

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 51.49 / 44
p0 −0.06277 ± 0.1712
pull
Entries 45
Mean −70.61
Std Dev 0

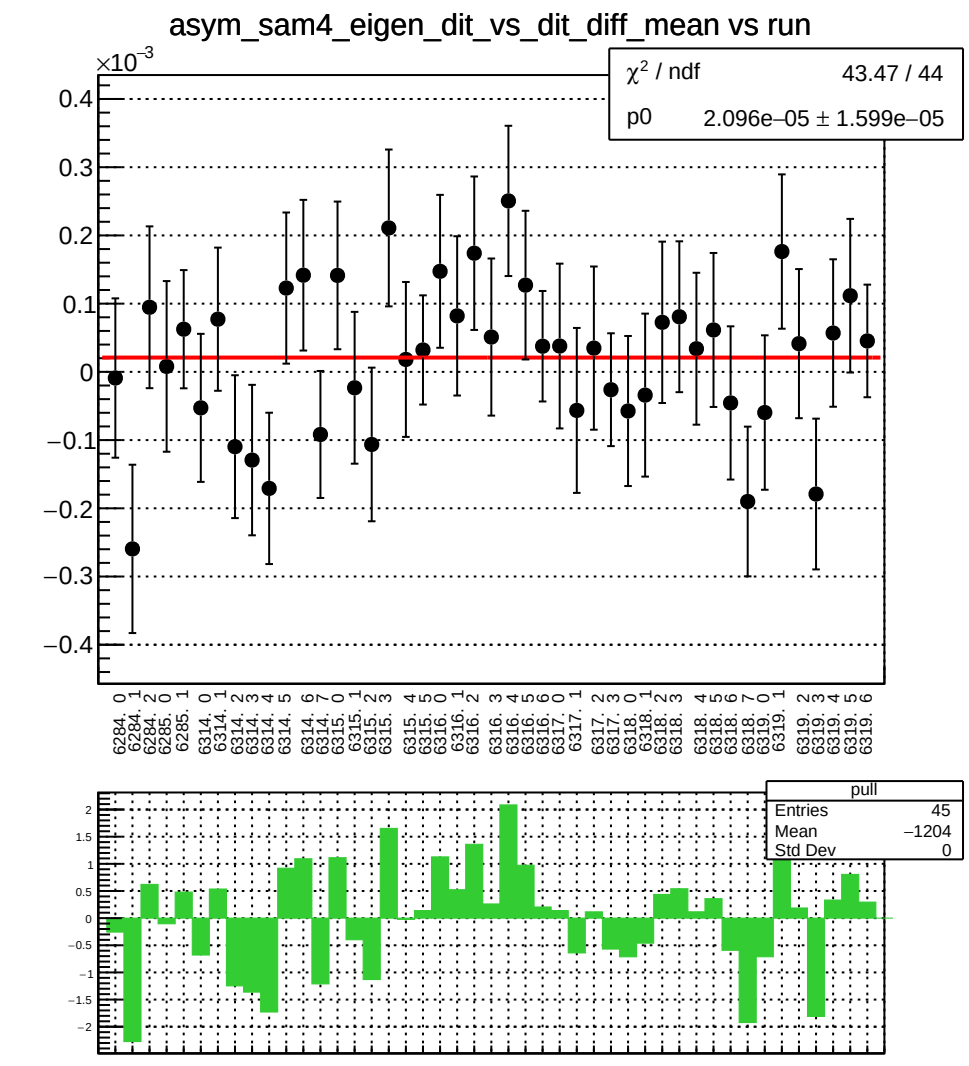

pull1D
Entries 45
Mean −0.0166
Std Dev 1.07

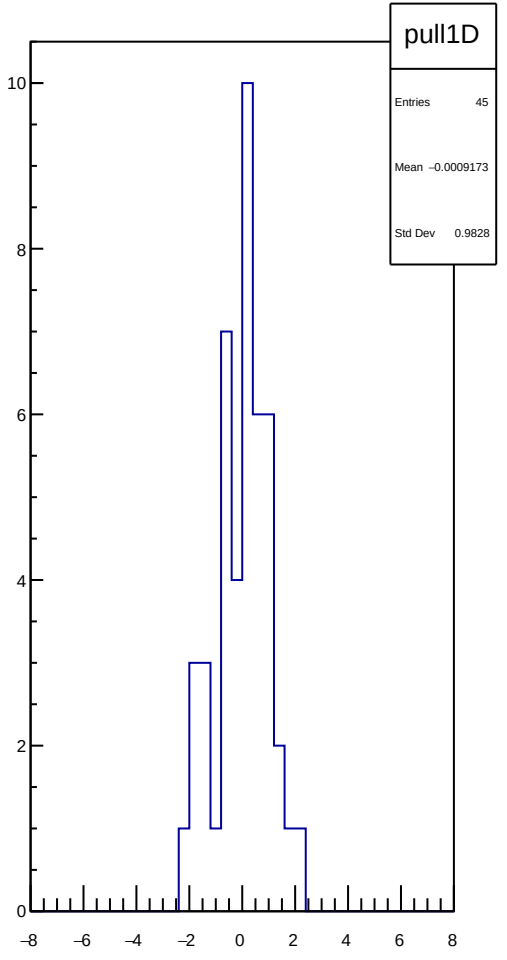

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 6.782e+04 / 44
p0 110.9 ± 0.1211
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

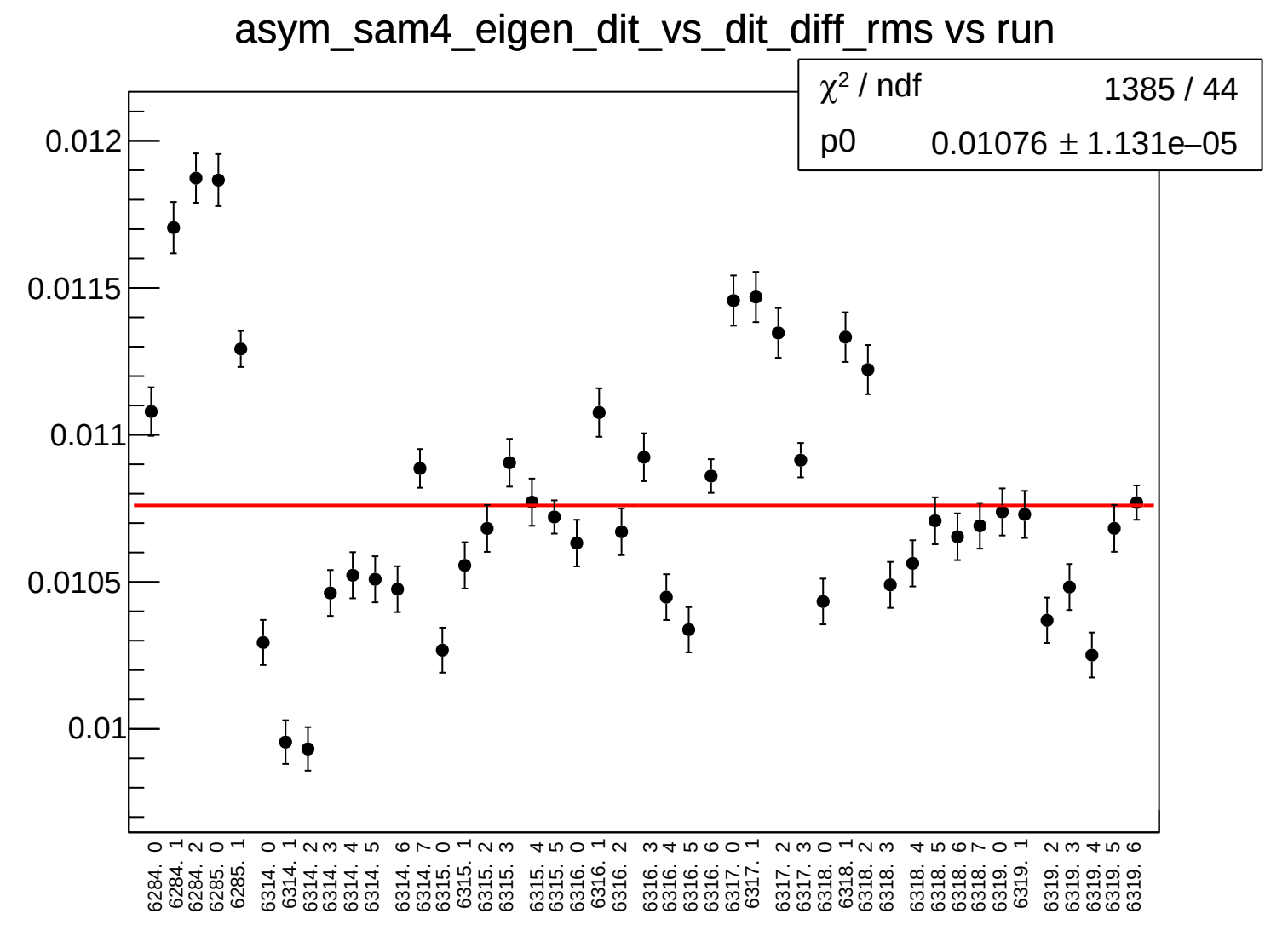

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.49 / 44
p0 −0.06277 ± 0.1712
6
4
2
0
−2
−4
−6
−8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −70.61
Std Dev 0
3
2
1
0
−1
−2

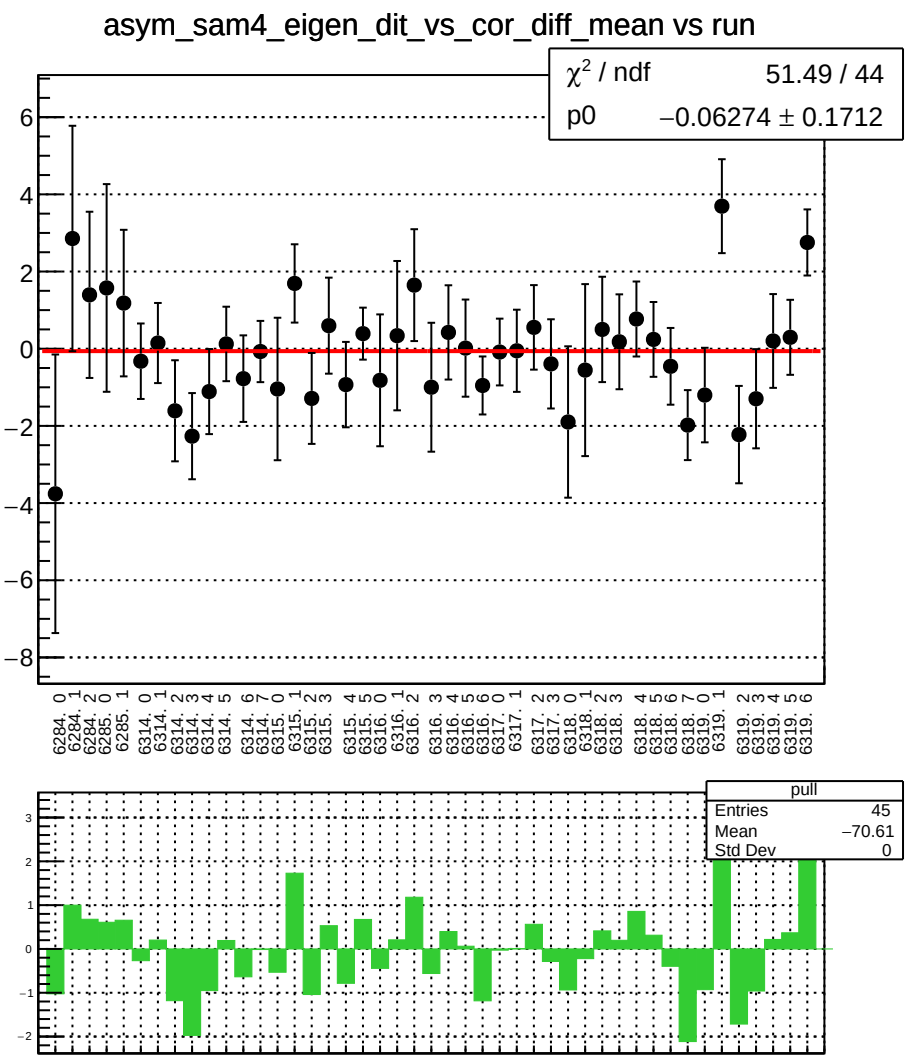

pull1D
Entries 45
Mean −0.0166
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

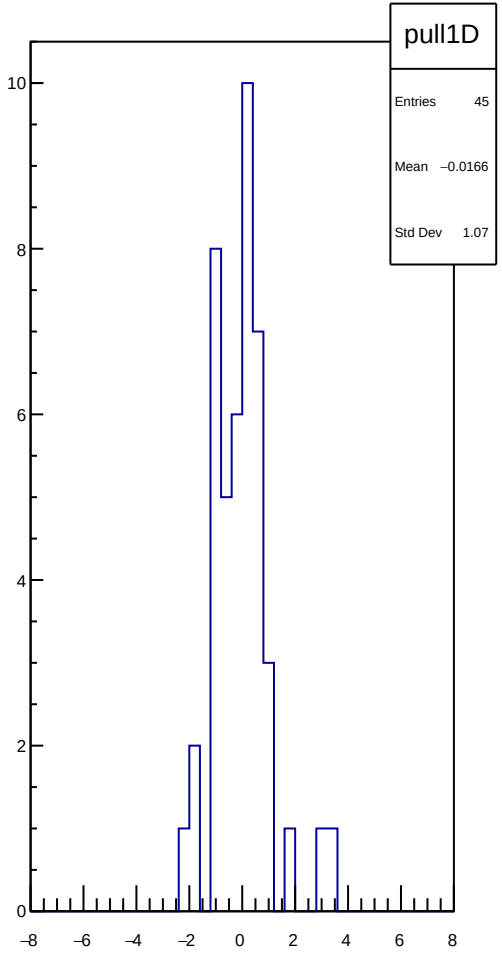

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.782e+04 / 44
p0 110.9 ± 0.1211
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

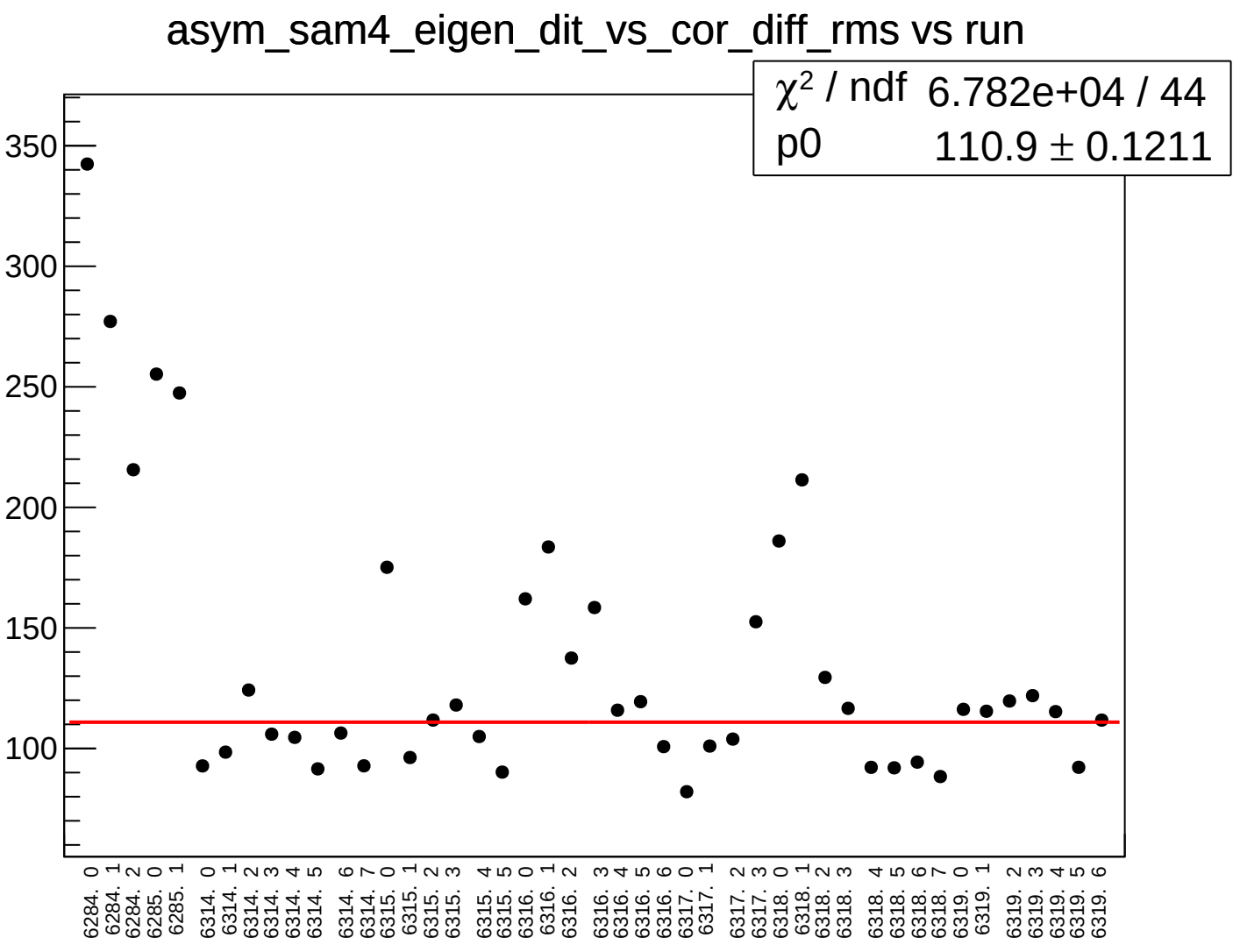

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.47 / 44
p0 2.096e−05 ± 1.599e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1204
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0009173
Std Dev 0.9828
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1385 / 44
p0 0.01076 ± 1.131e–05
0.012
0.0115
0.011
0.0105
0.01
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.49 / 44
p0 −0.06274 ± 0.1712
pull
Entries 45
Mean −70.61
Std Dev 0


pull1D
Entries 45
Mean −0.0166
Std Dev 1.07


asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.782e+04 / 44
p0 110.9 ± 0.1211
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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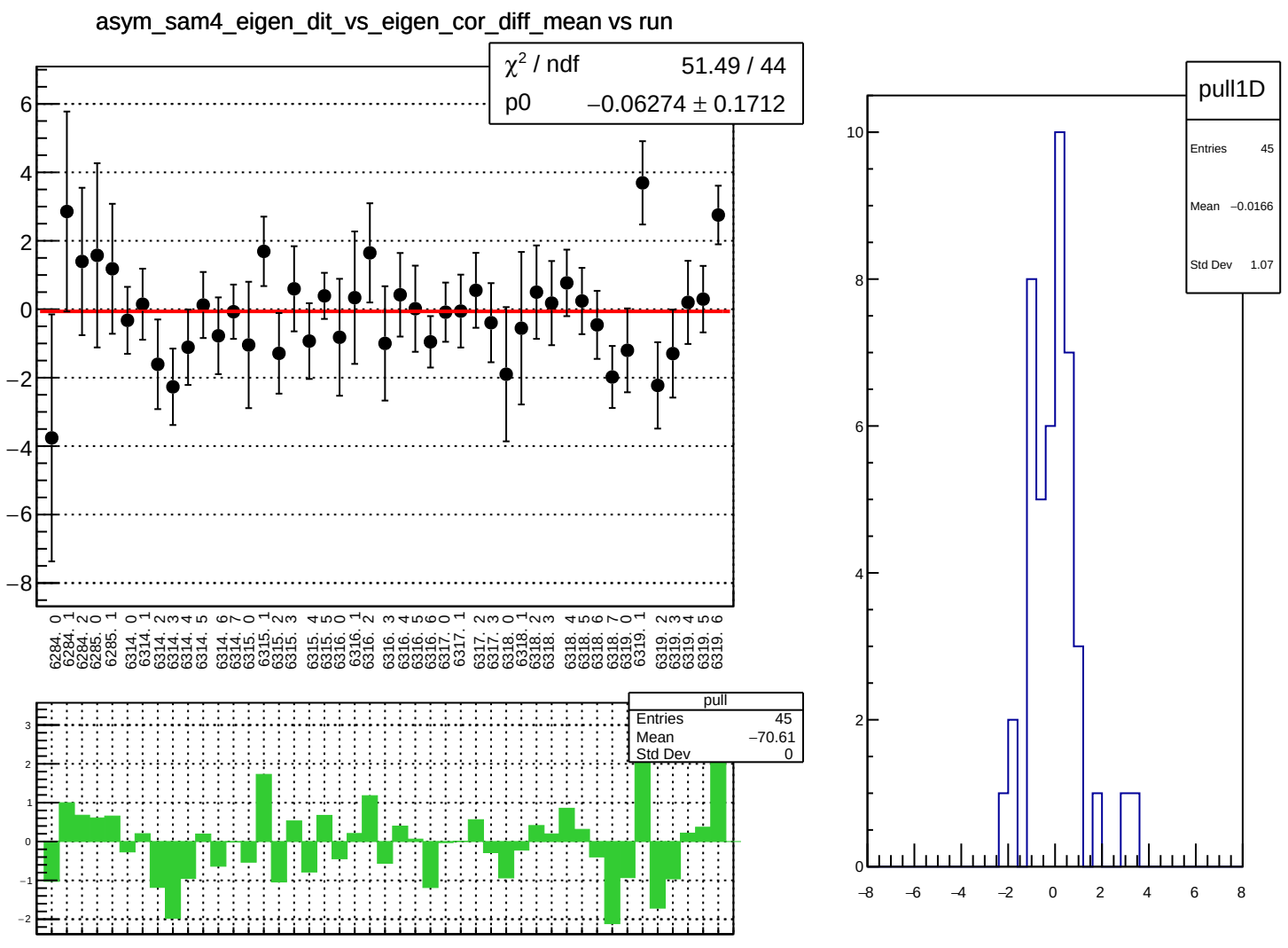
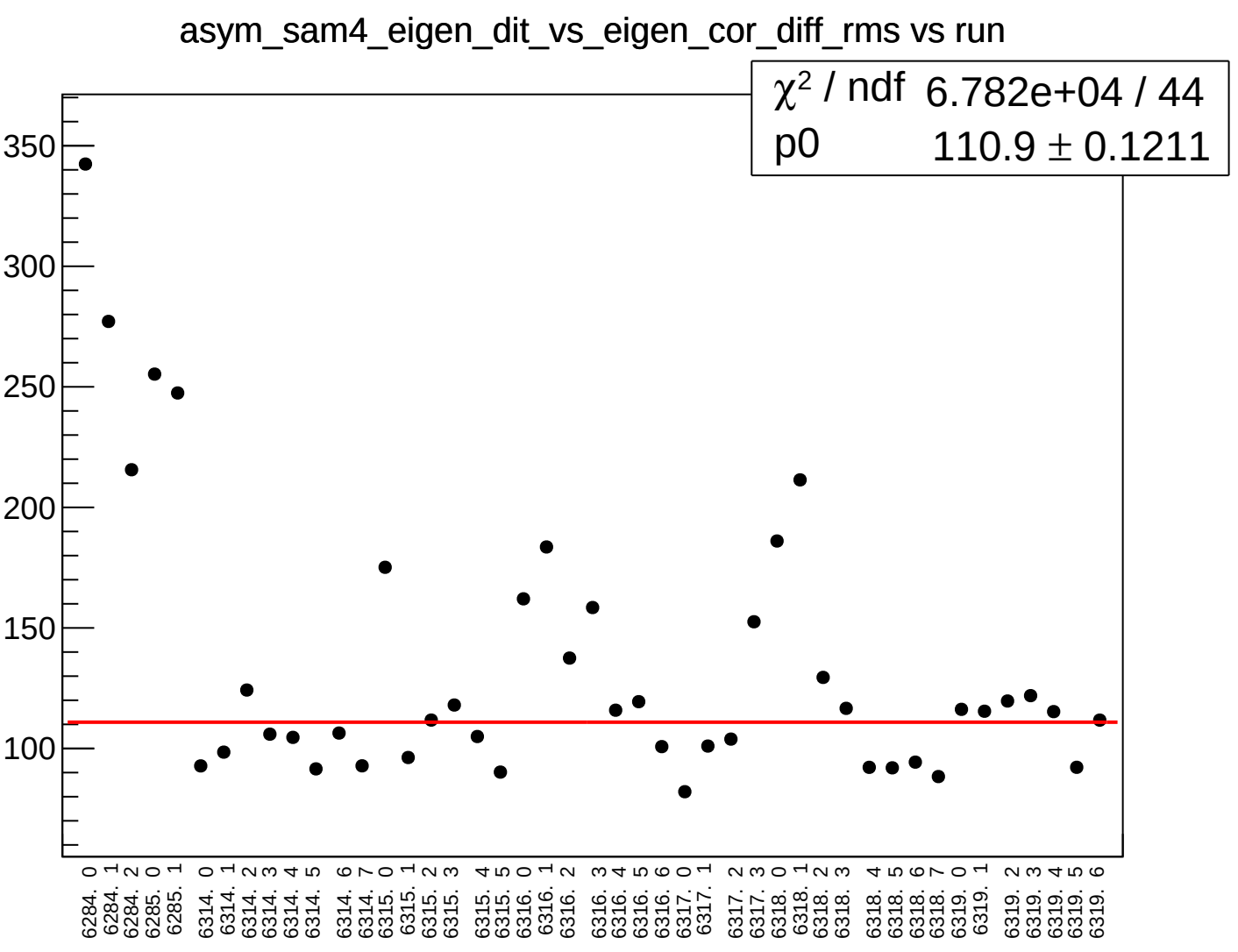
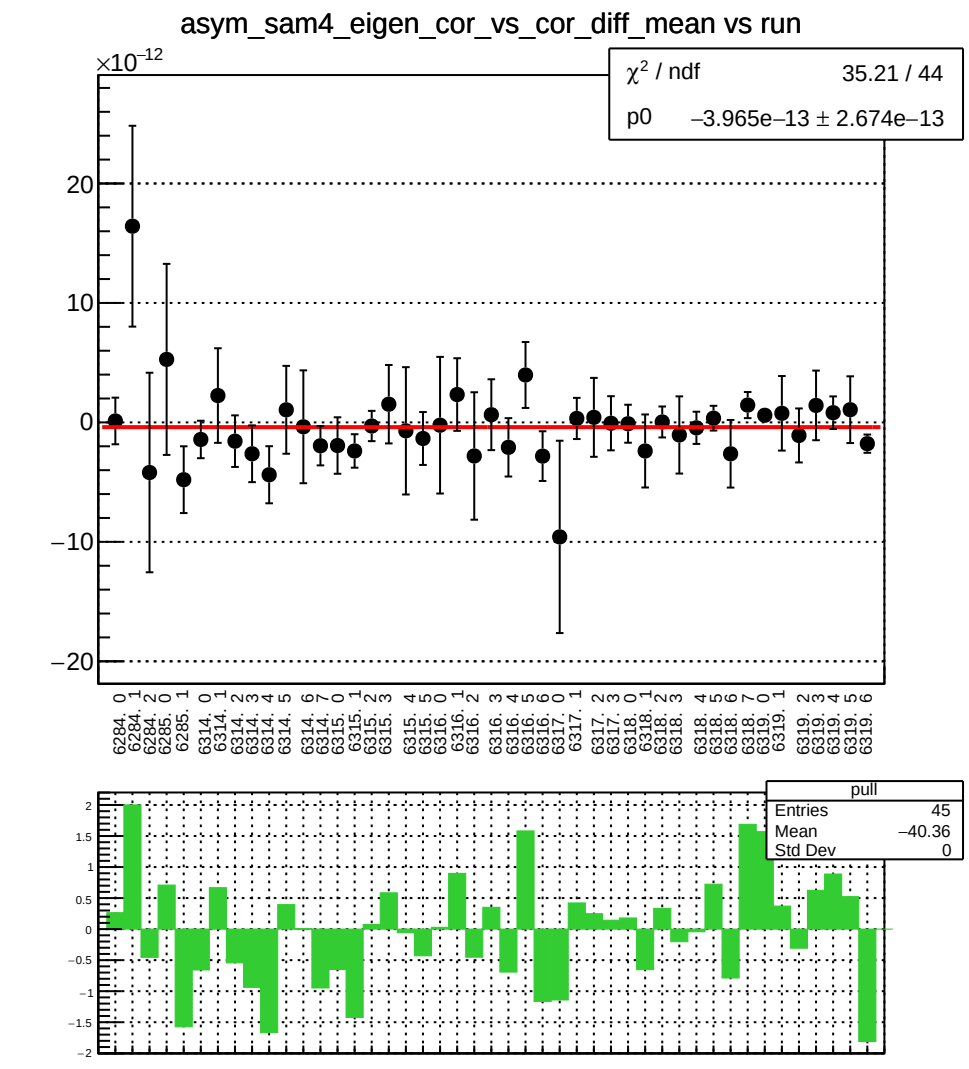
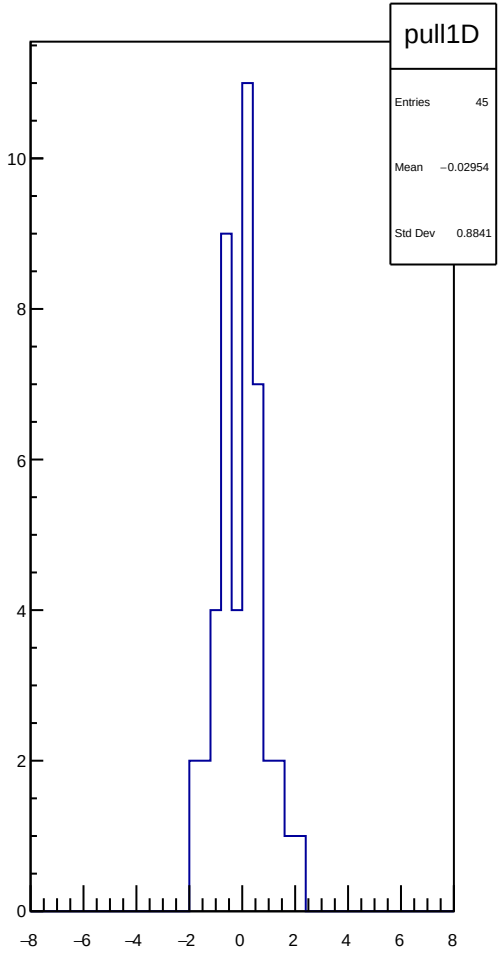
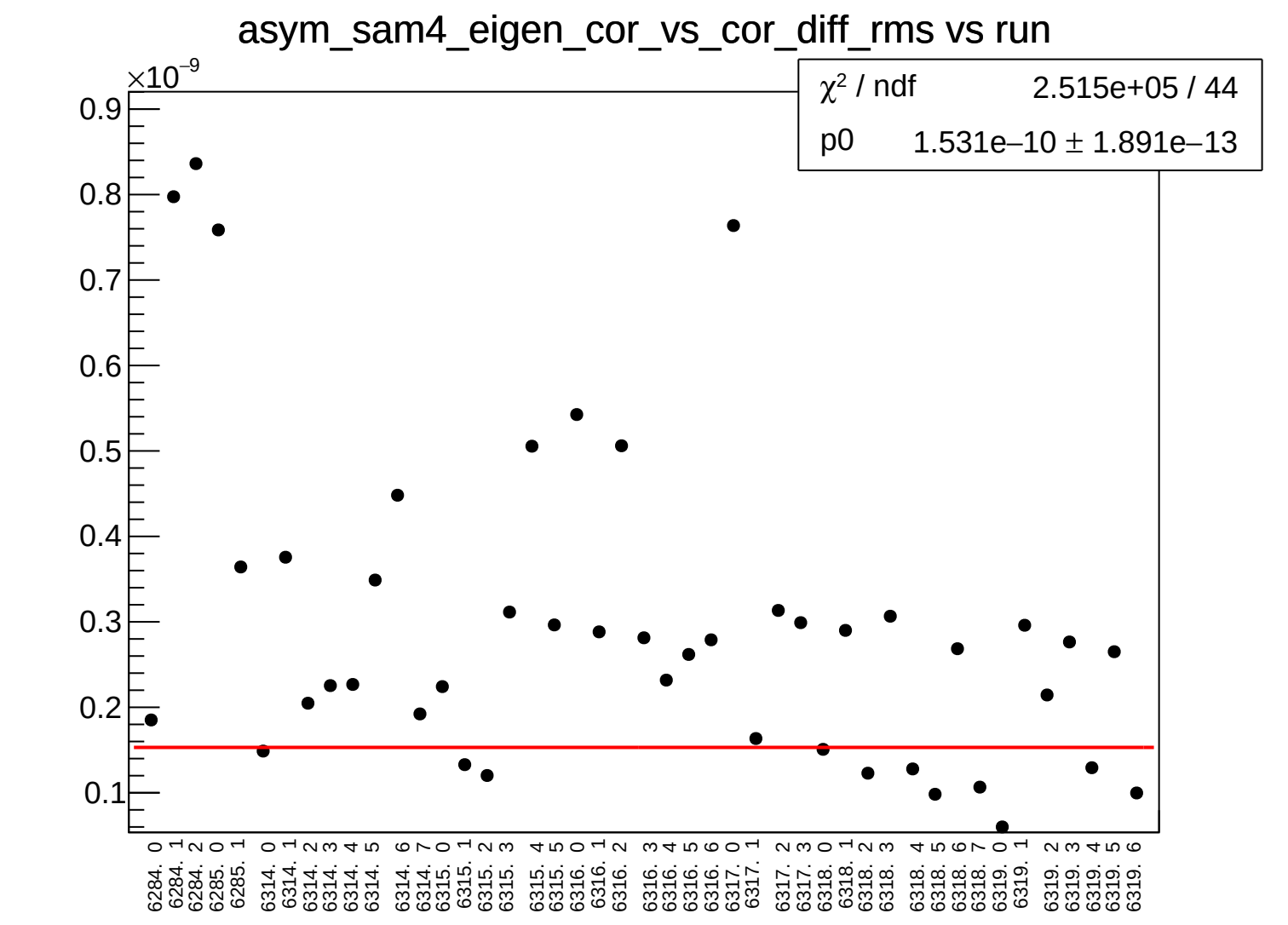
6319. 5
6319. 6

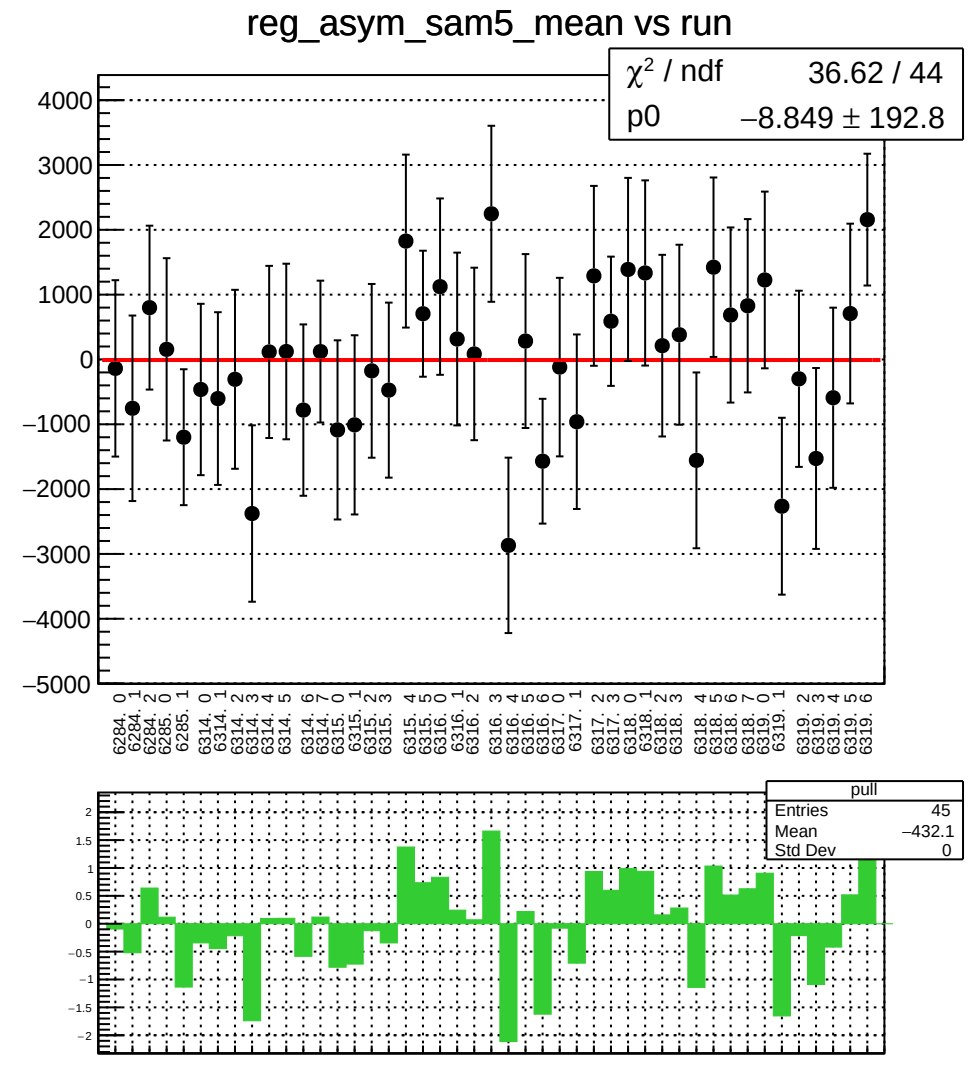

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.49 / 44
p0 −0.06274 ± 0.1712
pull
Entries 45
Mean −70.61
Std Dev 0
pull1D
Entries 45
Mean −0.0166
Std Dev 1.07

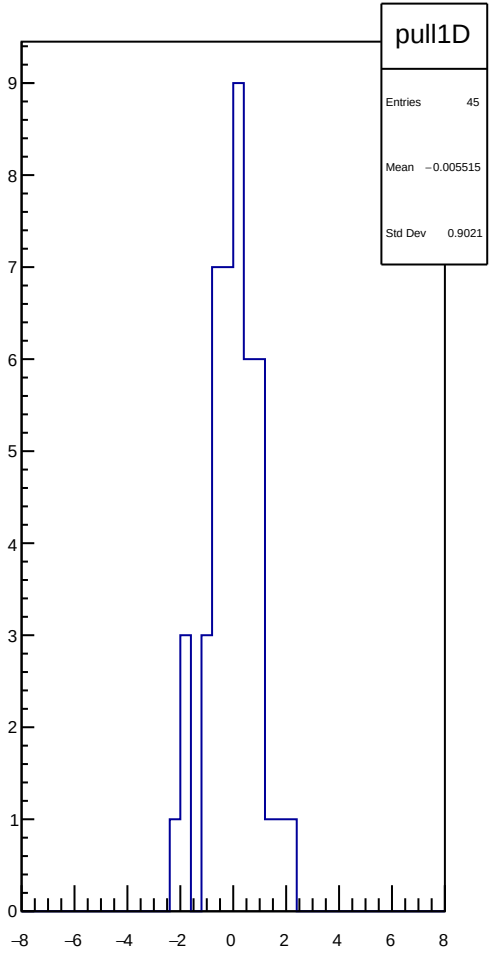

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.782e+04 / 44
p0 110.9 ± 0.1211
350
300
250
200
150
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

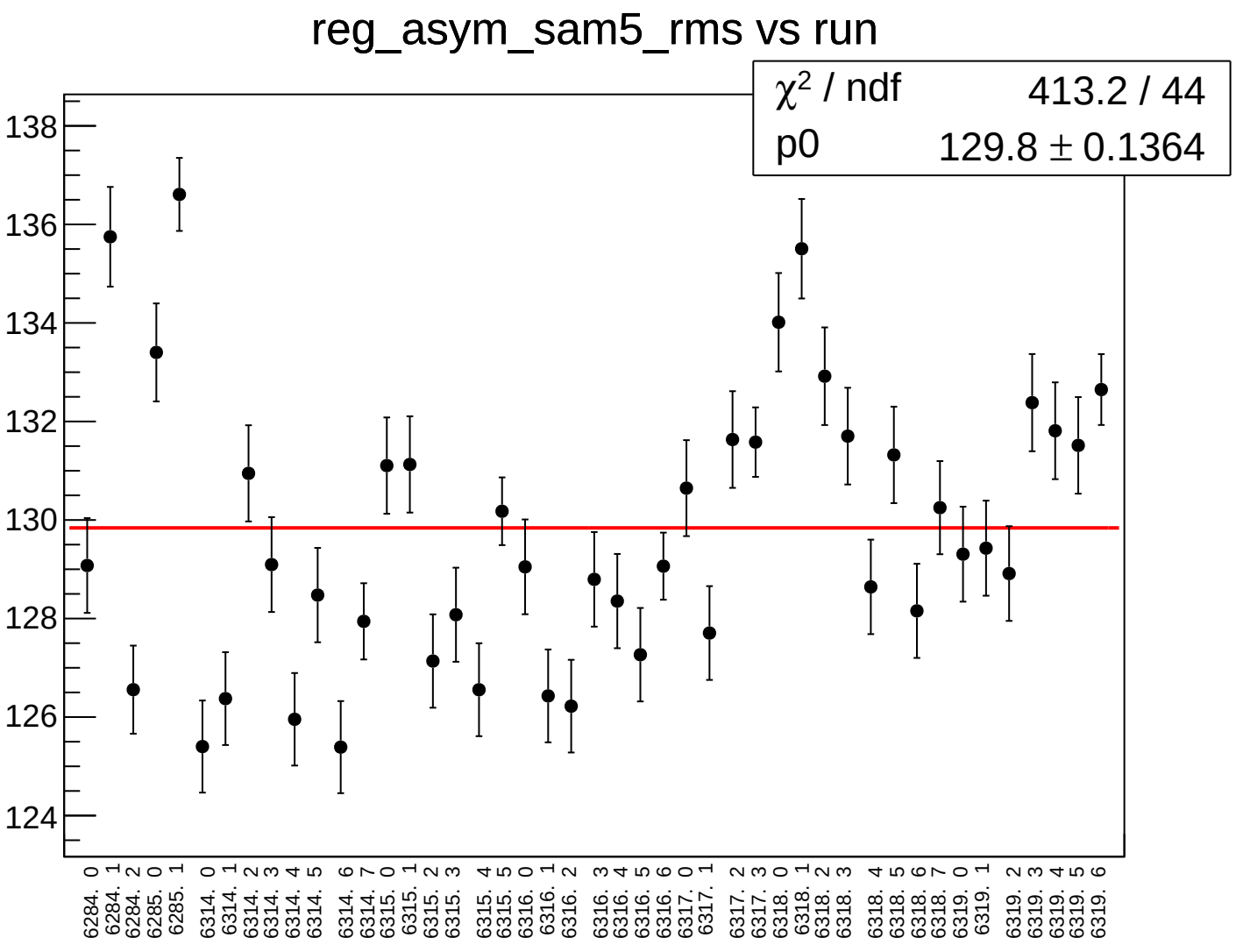

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.21 / 44
p0 −3.965e−13 ± 2.674e−13
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −40.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02954
Std Dev 0.8841
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.515e+05 / 44
p0 1.531e−10 ± 1.891e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam5_mean vs run
χ² / ndf 36.62 / 44
p0 −8.849 ± 192.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −432.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.005515
Std Dev 0.9021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 413.2 / 44
p0 129.8 ± 0.1364
138
136
134
132
130
128
126
124
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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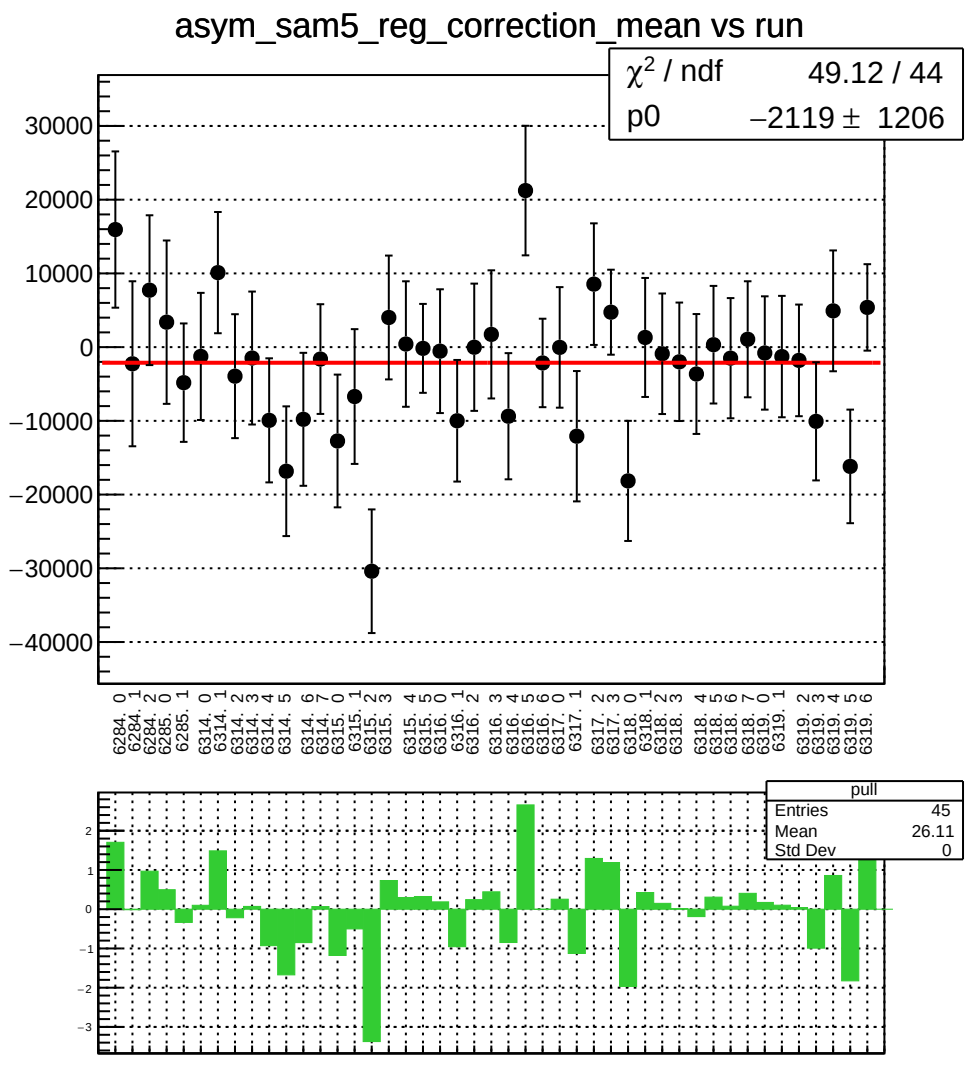
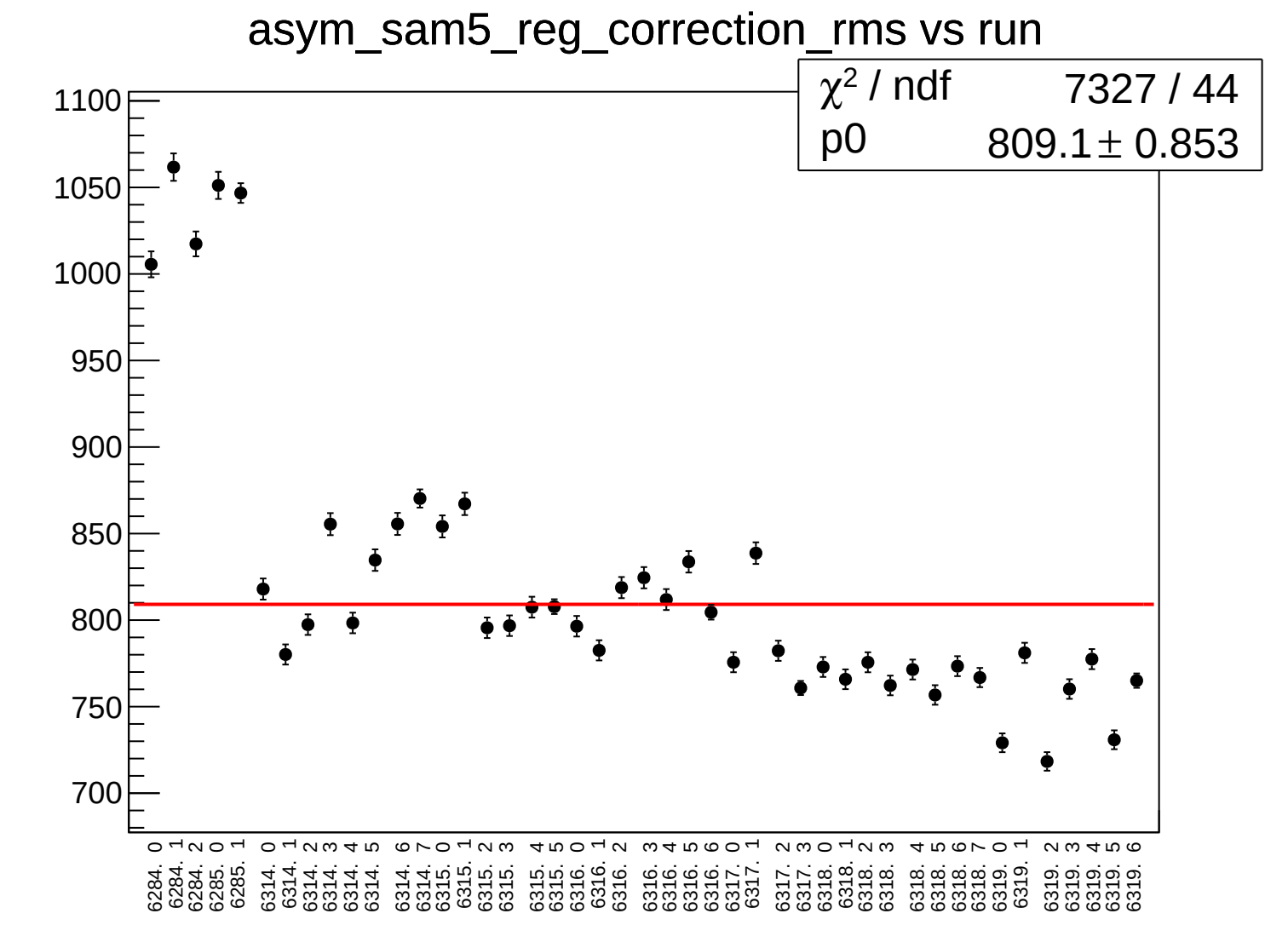
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam5_reg_correction_mean vs run
χ² / ndf 49.12 / 44
p0 −2119 ± 1206
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.11
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01394
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ² / ndf 7327 / 44
p0 809.1 ± 0.853
1100
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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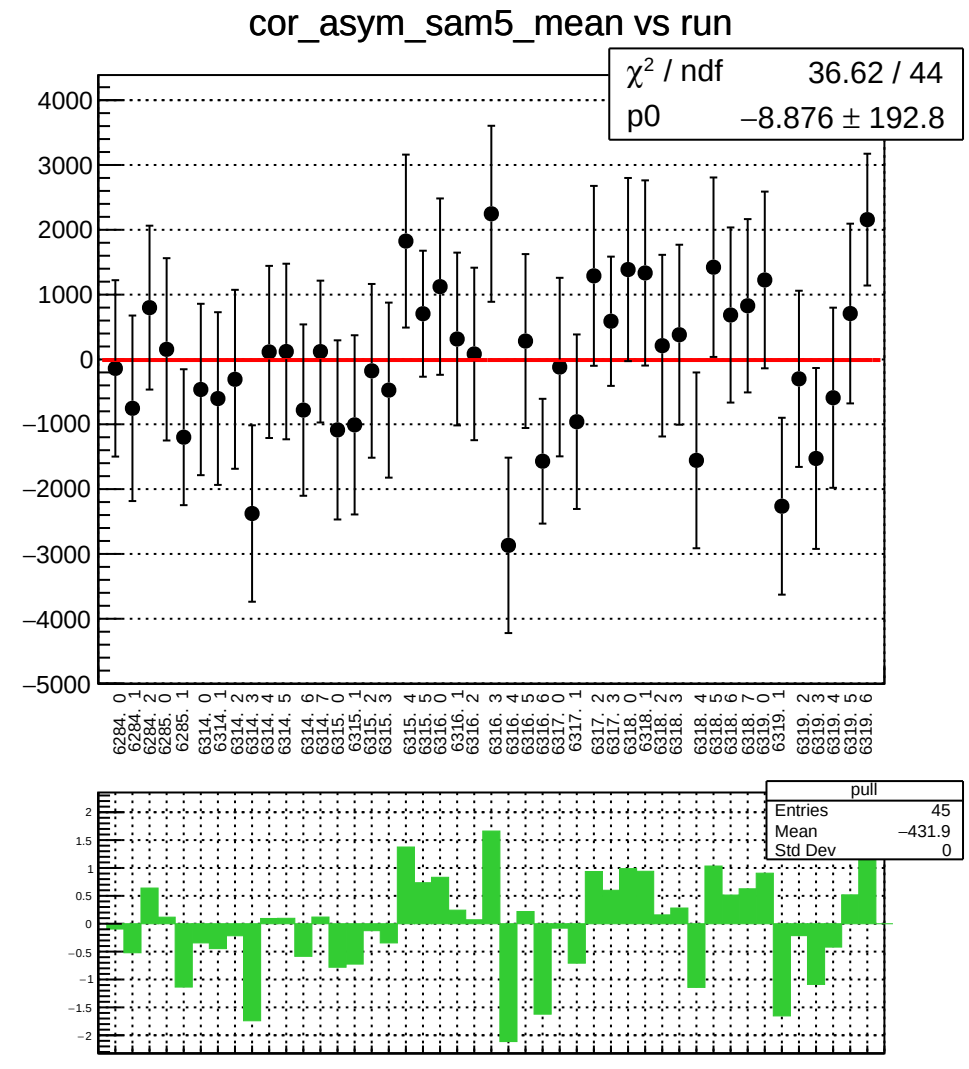
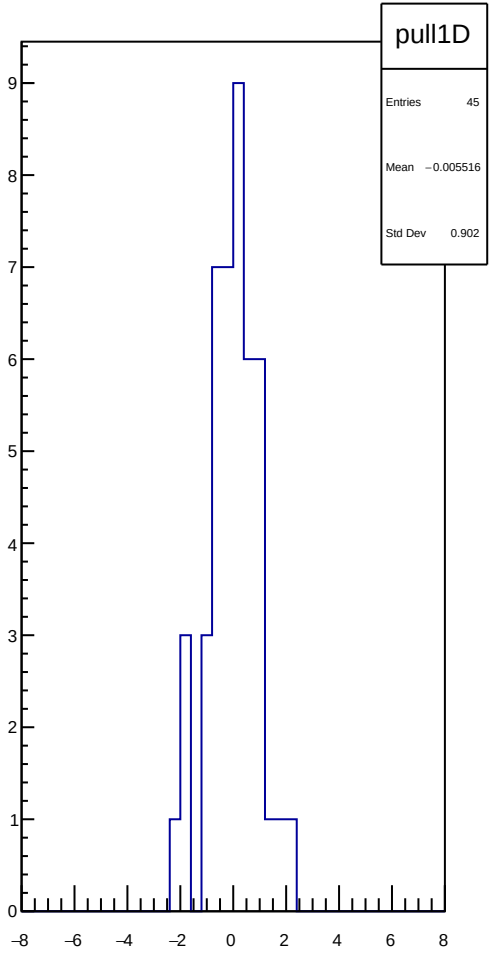
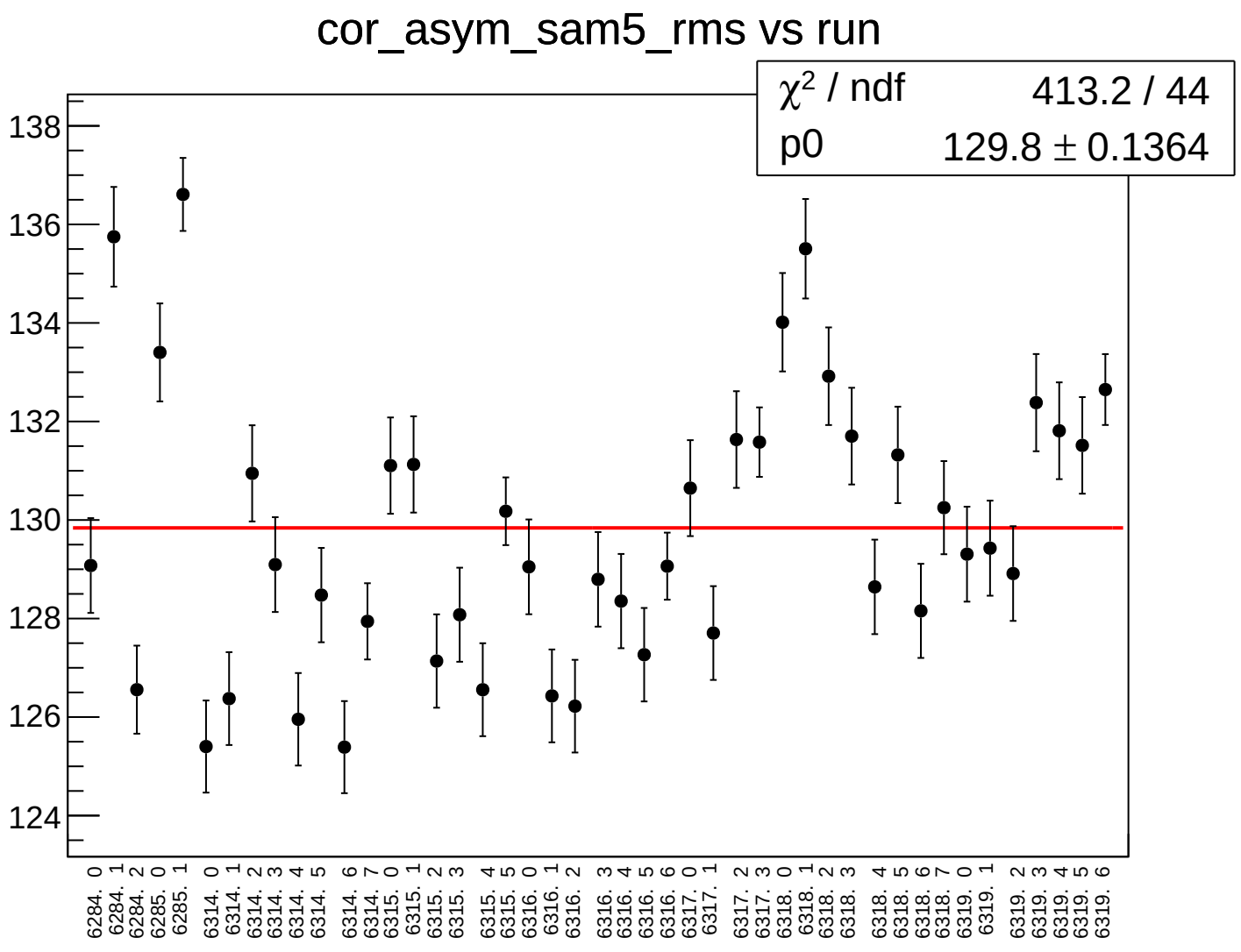
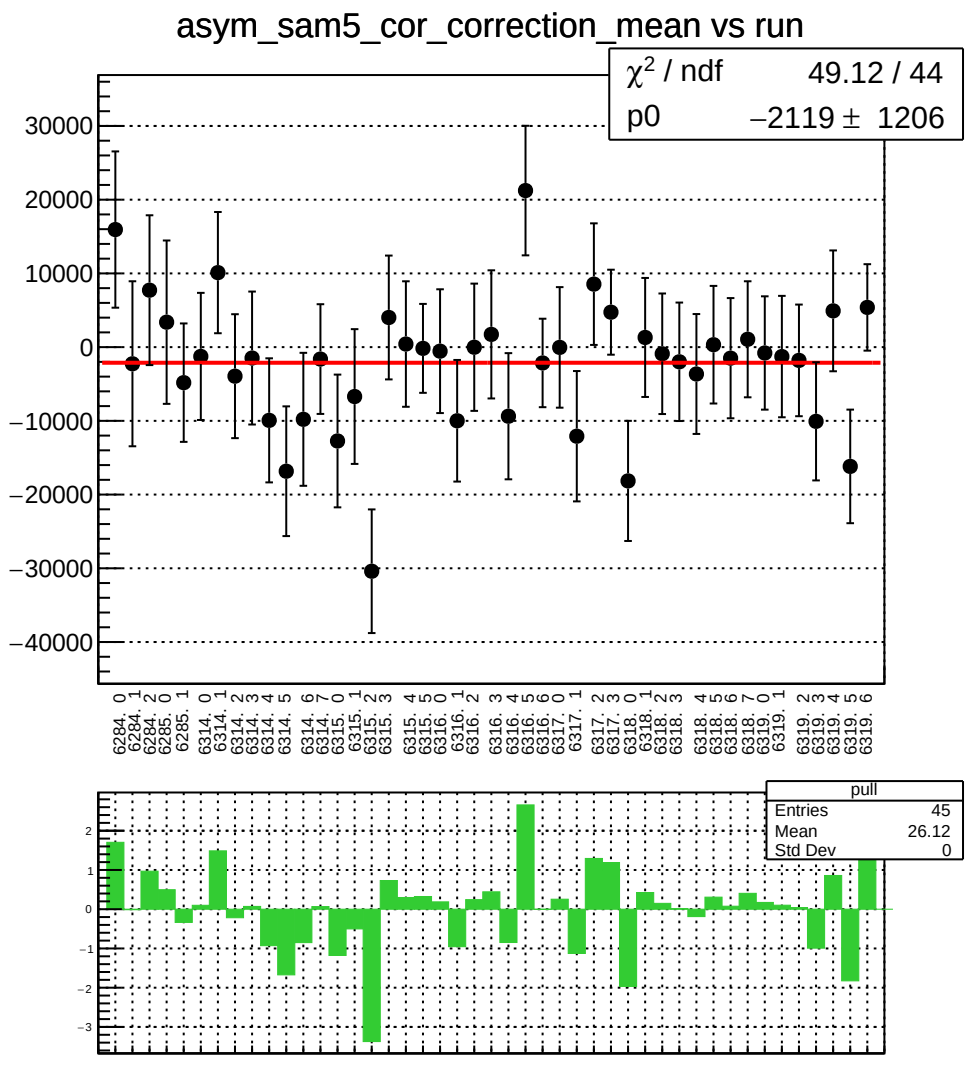
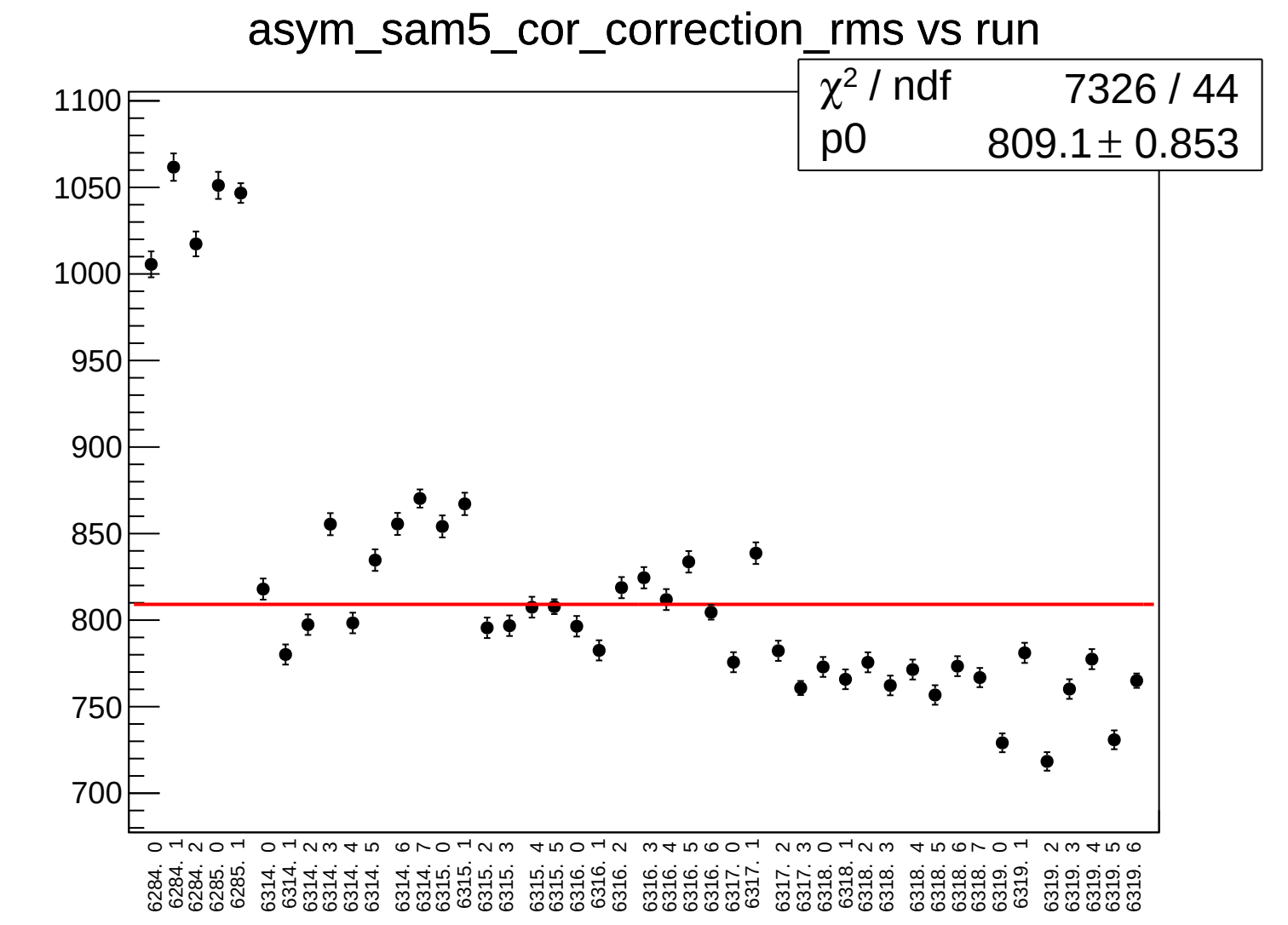
6319. 5
6319. 6

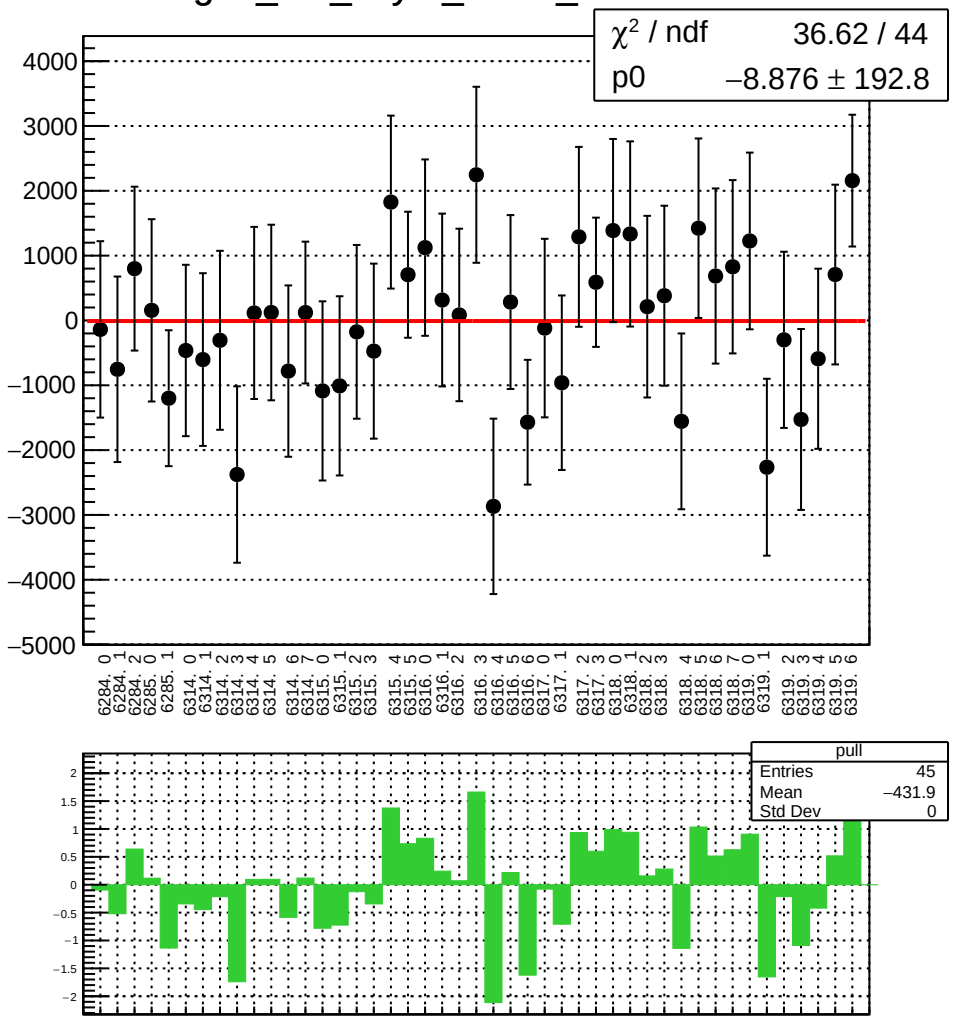

cor_asym_sam5_mean vs run
χ² / ndf 36.62 / 44
p0 −8.876 ± 192.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −431.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

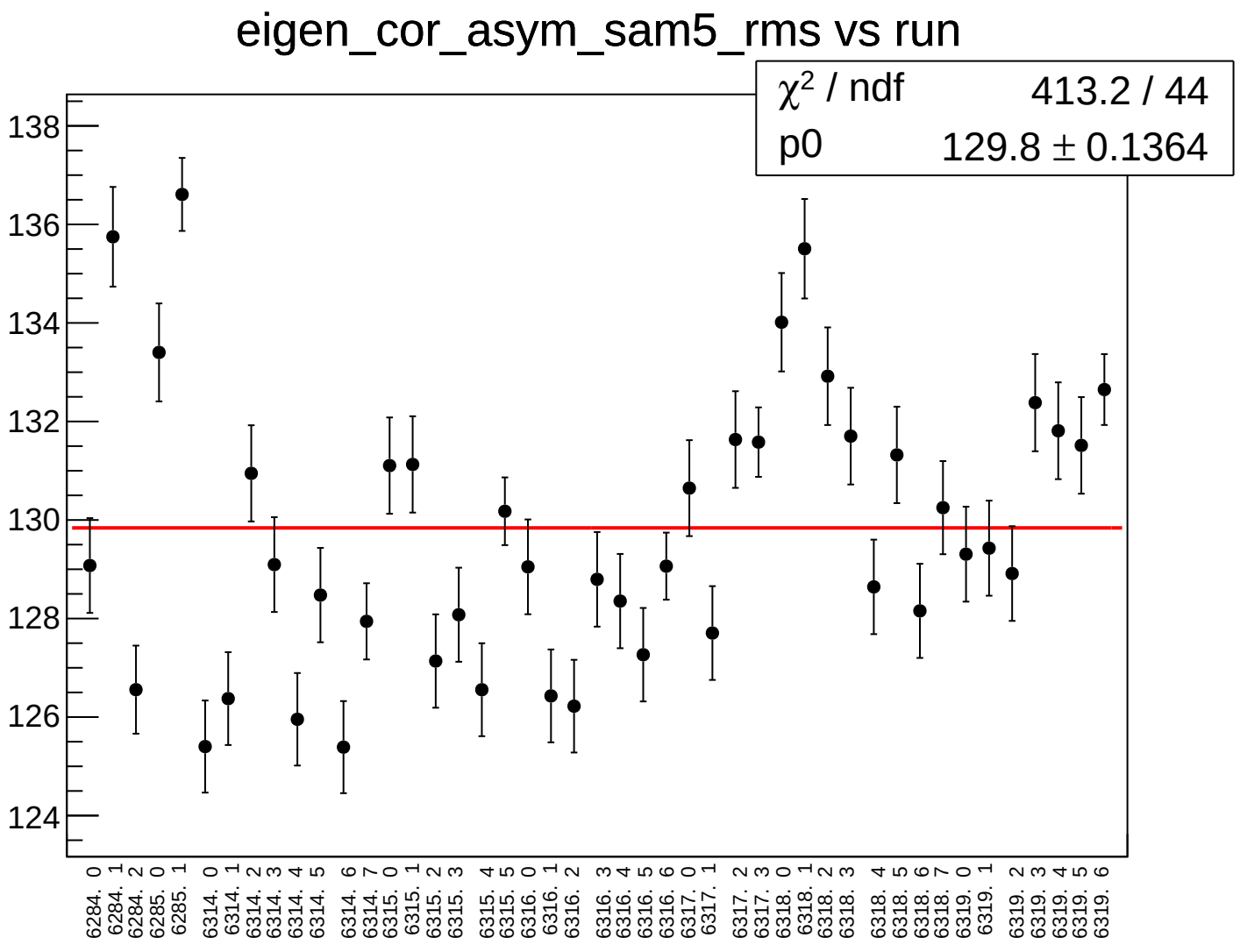

pull1D
Entries 45
Mean −0.005516
Std Dev 0.902
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 413.2 / 44
p0 129.8 ± 0.1364
138
136
134
132
130
128
126
124
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam5_cor_correction_mean vs run
χ² / ndf 49.12 / 44
p0 −2119 ± 1206
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.12
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01394
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 7326 / 44
p0 809.1 ± 0.853
1100
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam5_mean vs run
χ² / ndf 36.62 / 44
p0 −8.876 ± 192.8
pull
Entries 45
Mean −431.9
Std Dev 0
pull1D
Entries 45
Mean −0.005516
Std Dev 0.902


eigen_cor_asym_sam5_rms vs run
χ² / ndf 413.2 / 44
p0 129.8 ± 0.1364
138
136
134
132
130
128
126
124
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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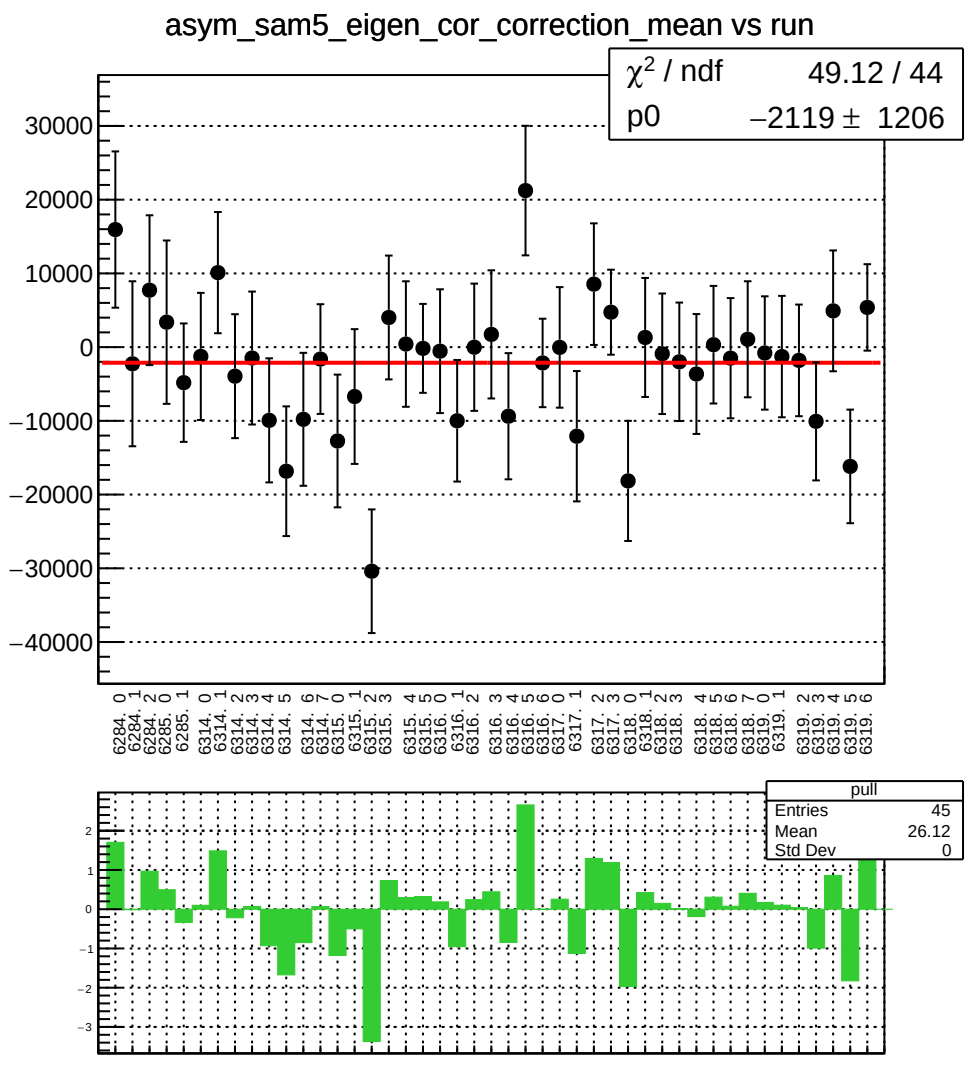
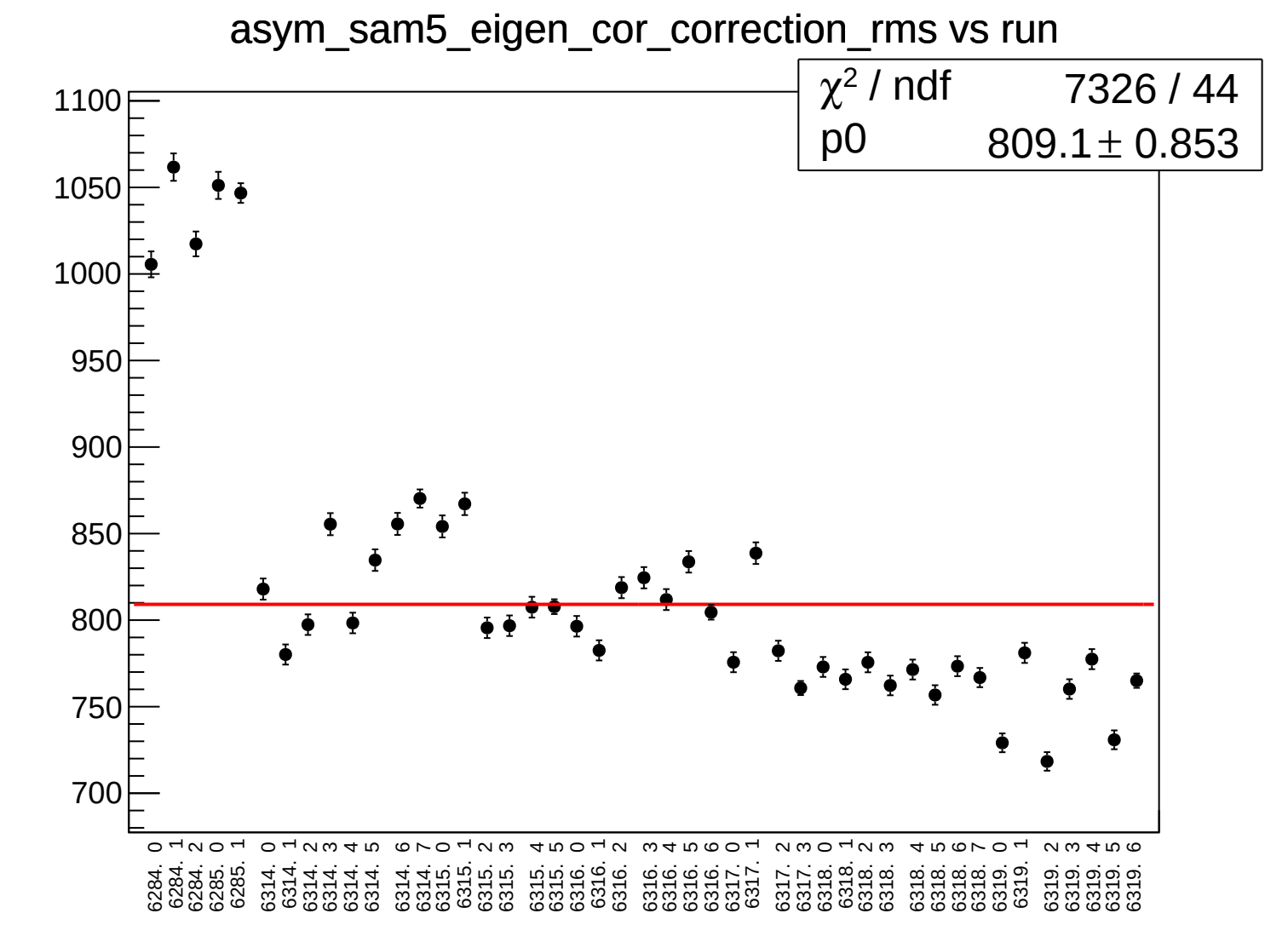
6319. 5
6319. 6


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 49.12 / 44
p0 −2119 ± 1206
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 26.12
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01394
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 7326 / 44
p0 809.1 ± 0.853
1100
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
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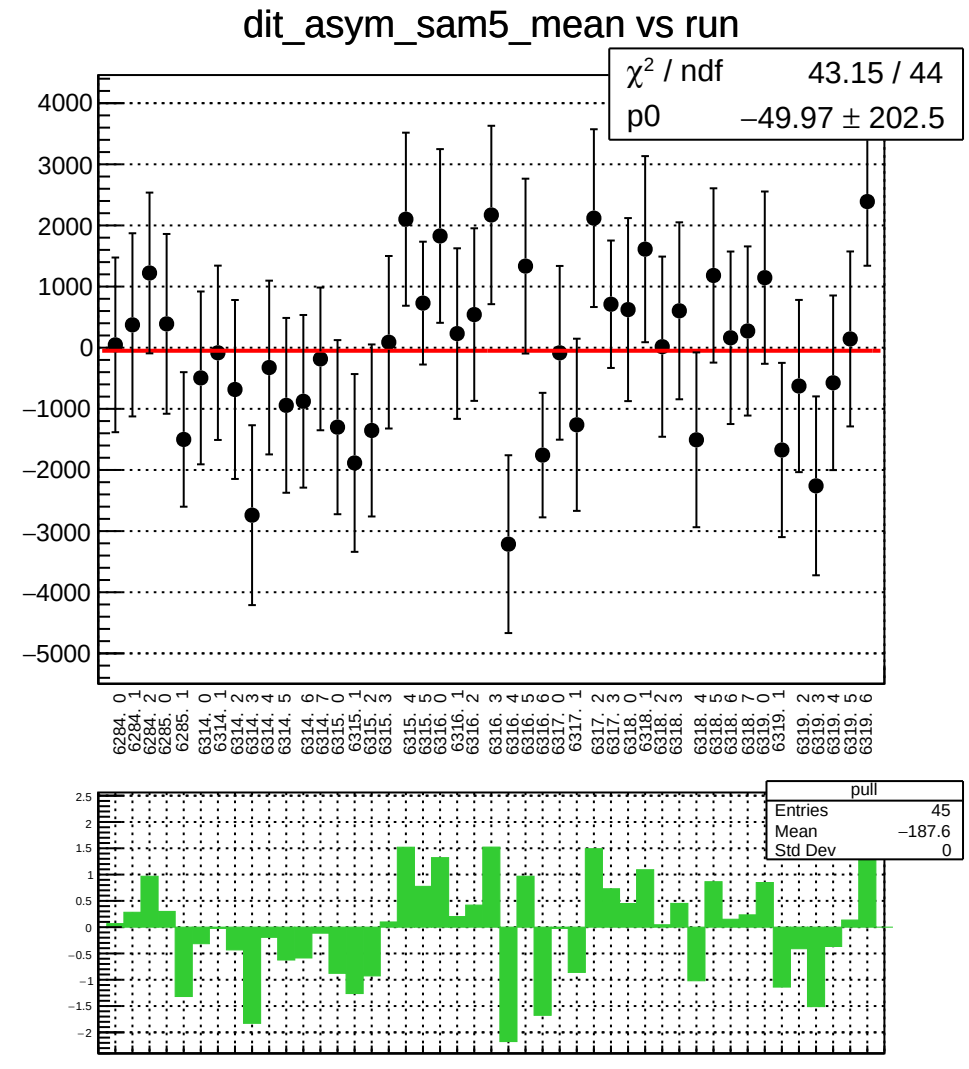
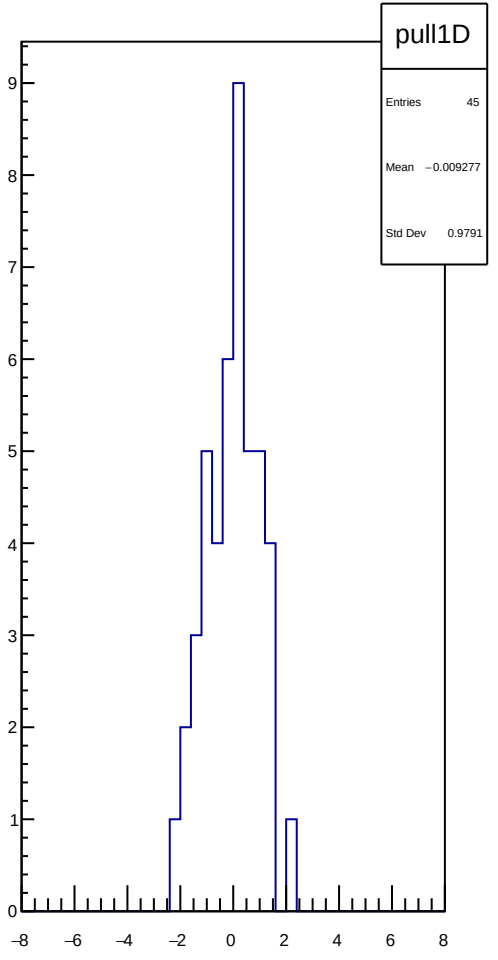
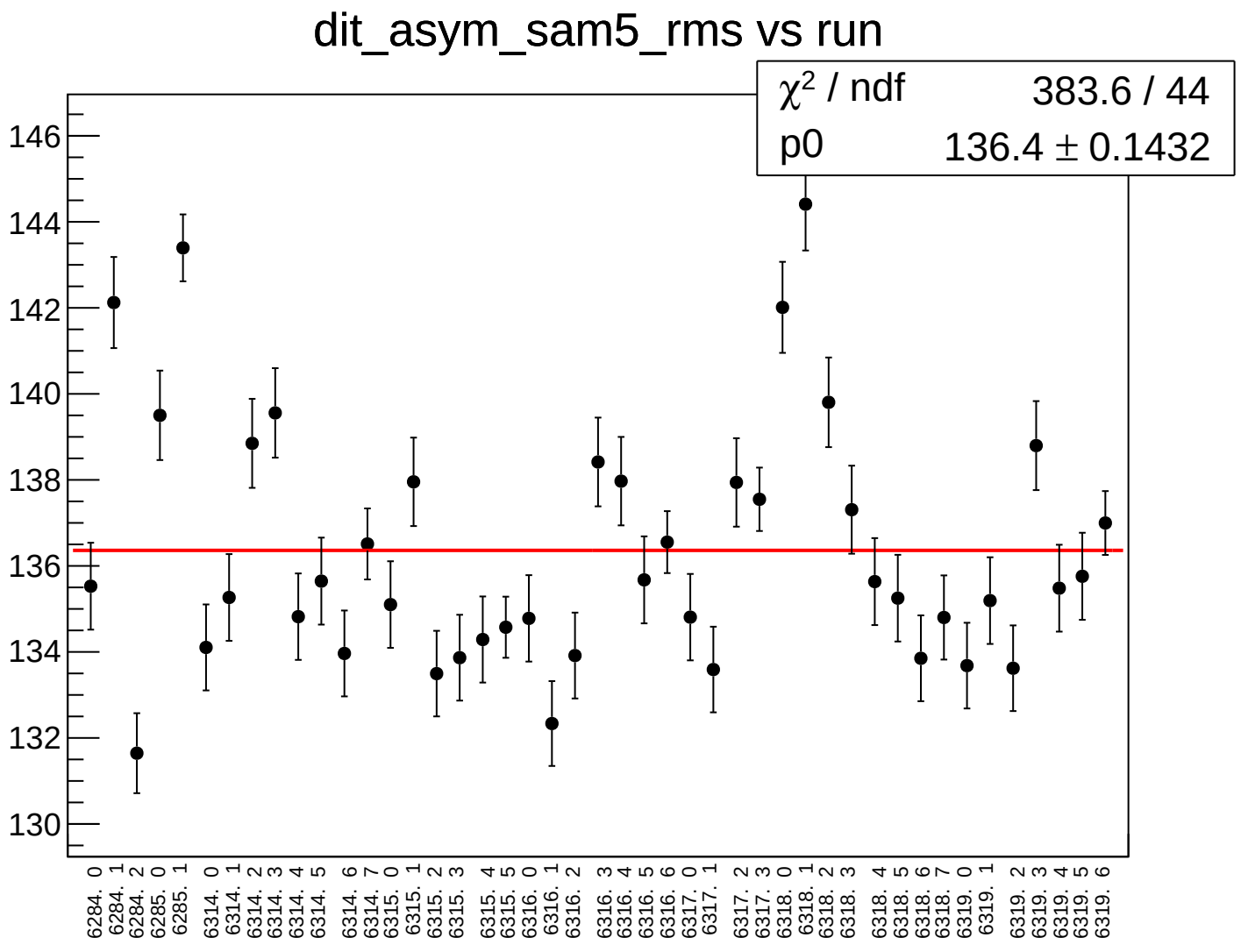
6319. 6


dit_asym_sam5_mean vs run
χ² / ndf 43.15 / 44
p0 −49.97 ± 202.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −187.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.009277
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 383.6 / 44
p0 136.4 ± 0.1432
146
144
142
140
138
136
134
132
130
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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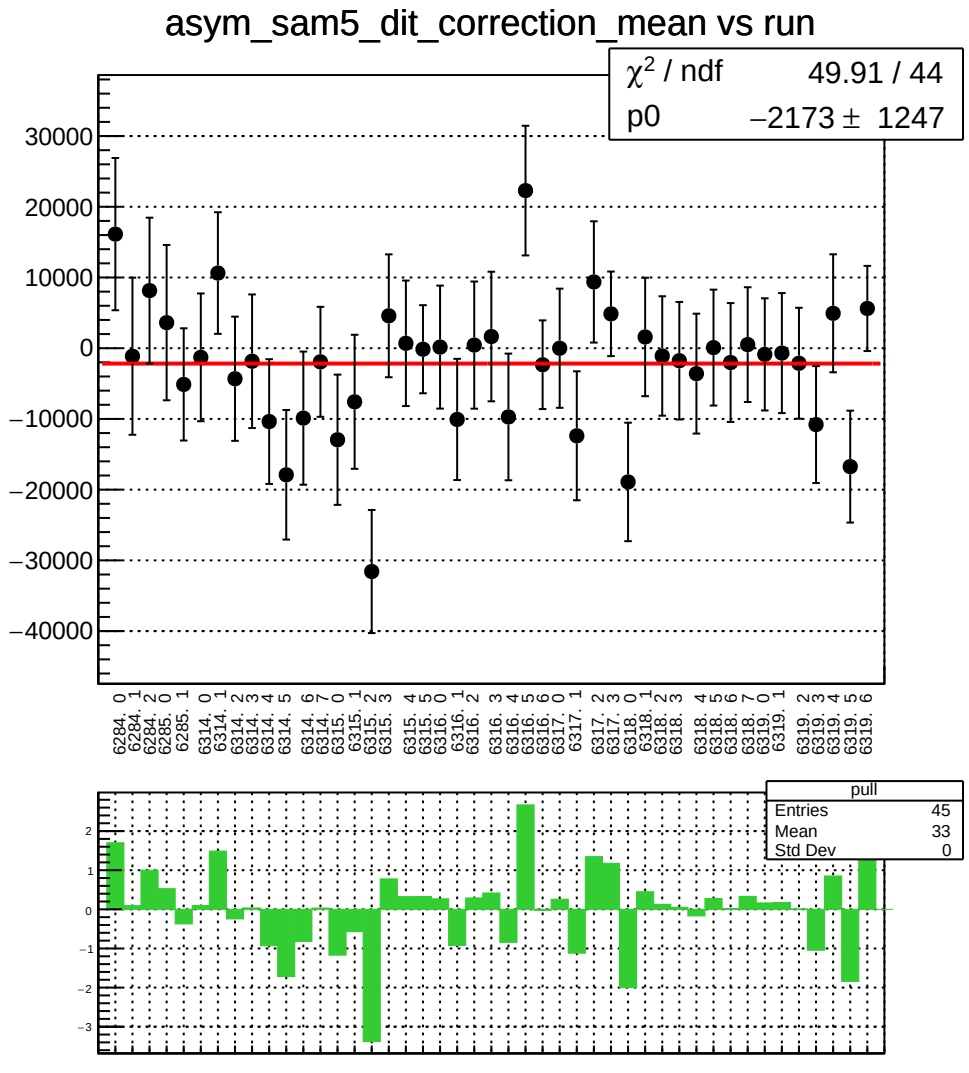
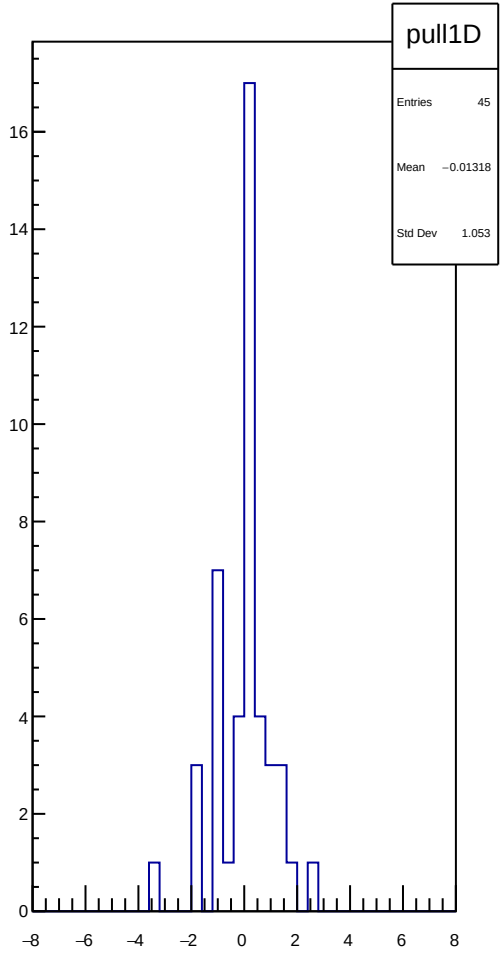
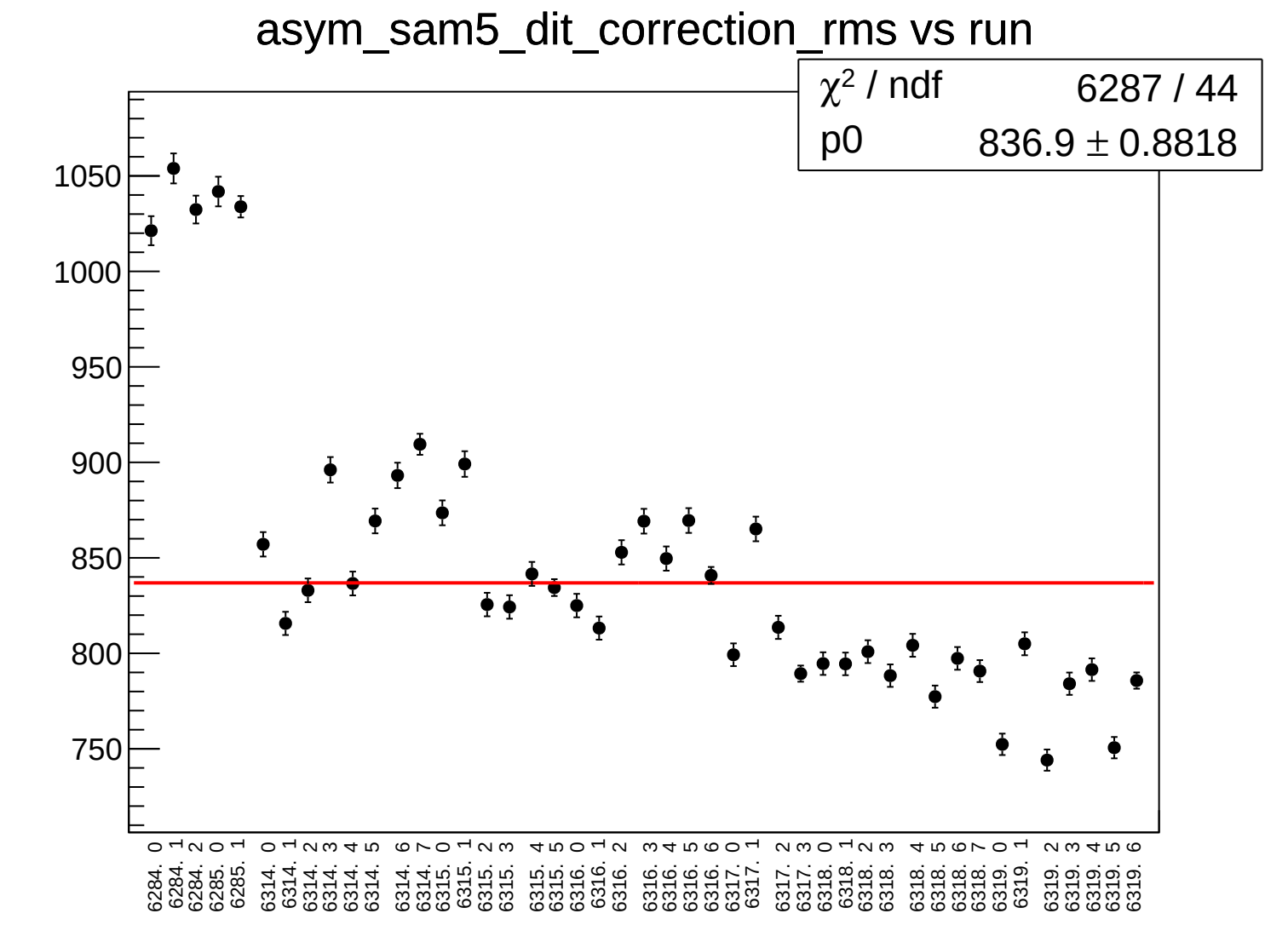
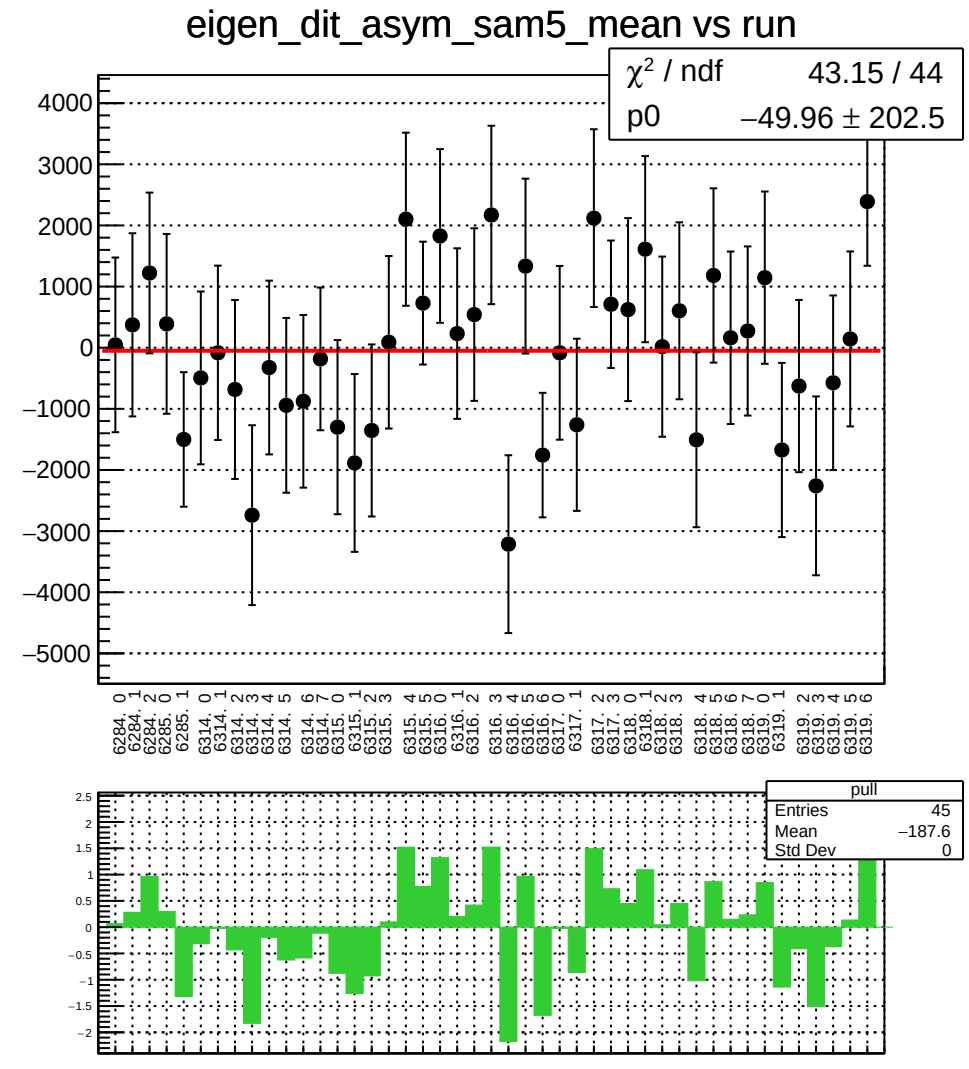
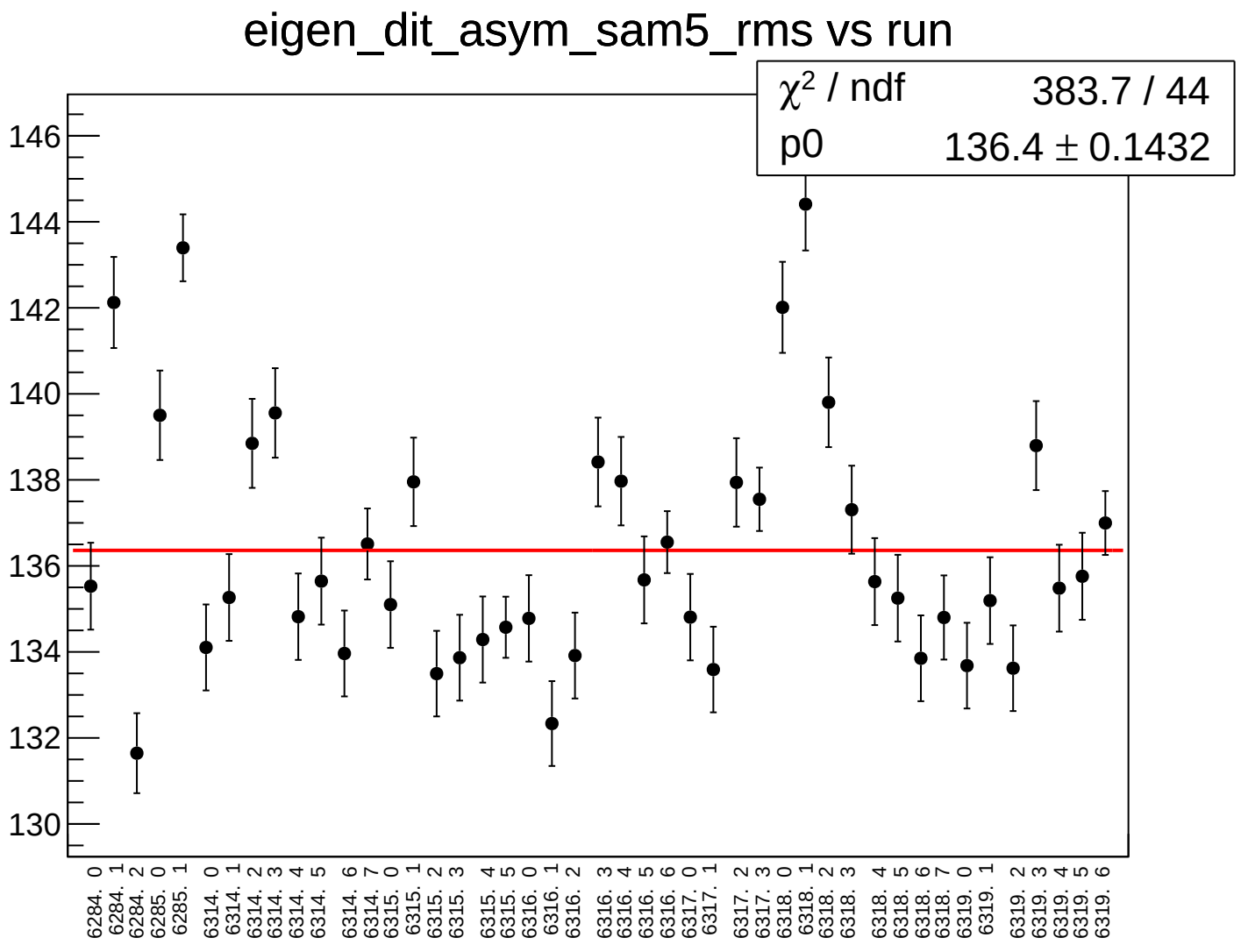
6319. 5
6319. 6

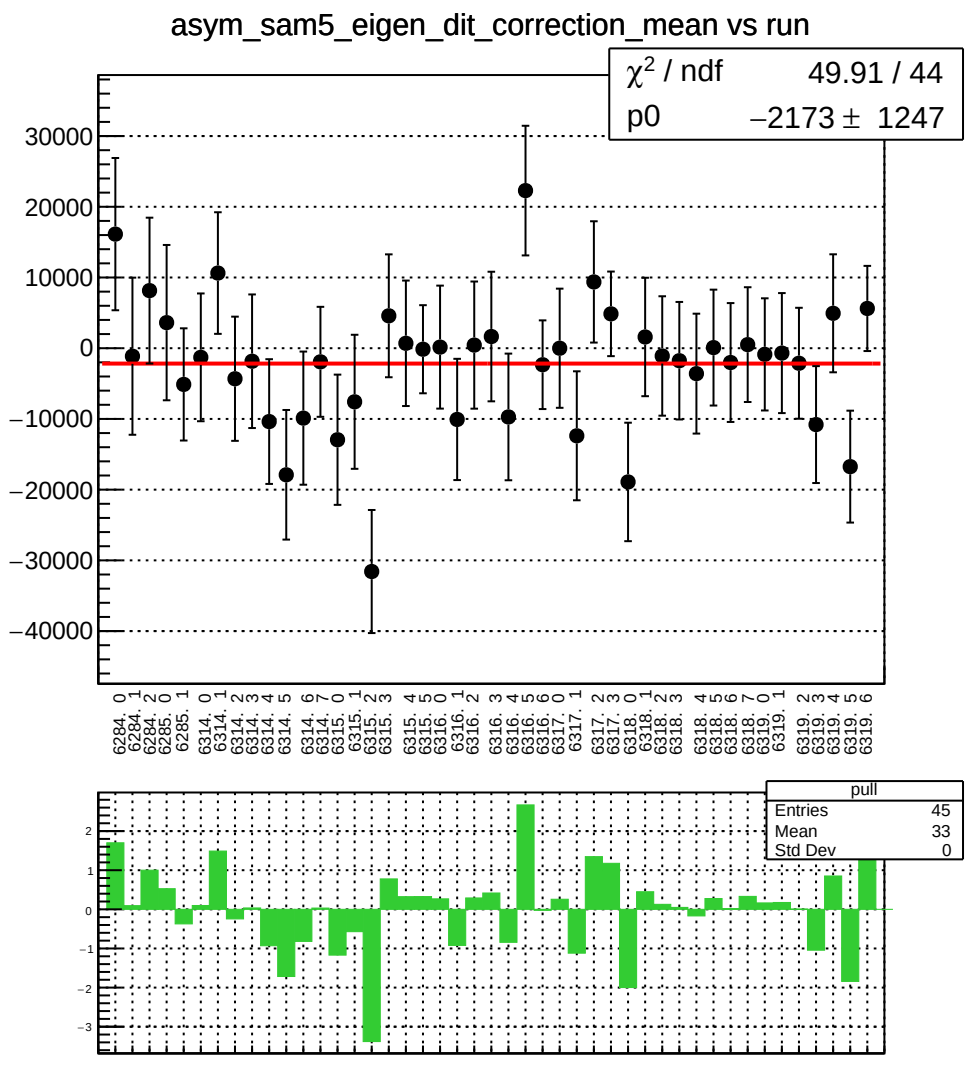

asym_sam5_dit_correction_mean vs run
χ² / ndf 49.91 / 44
p0 −2173 ± 1247
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01318
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_dit_correction_rms vs run
χ² / ndf 6287 / 44
p0 836.9 ± 0.8818
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam5_mean vs run
χ² / ndf 43.15 / 44
p0 −49.96 ± 202.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −187.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009277
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam5_rms vs run
χ² / ndf 383.7 / 44
p0 136.4 ± 0.1432
146
144
142
140
138
136
134
132
130
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 49.91 / 44
p0 −2173 ± 1247
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
6315. 0
6315. 1
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6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 6
6317. 0
6317. 1
6317. 2
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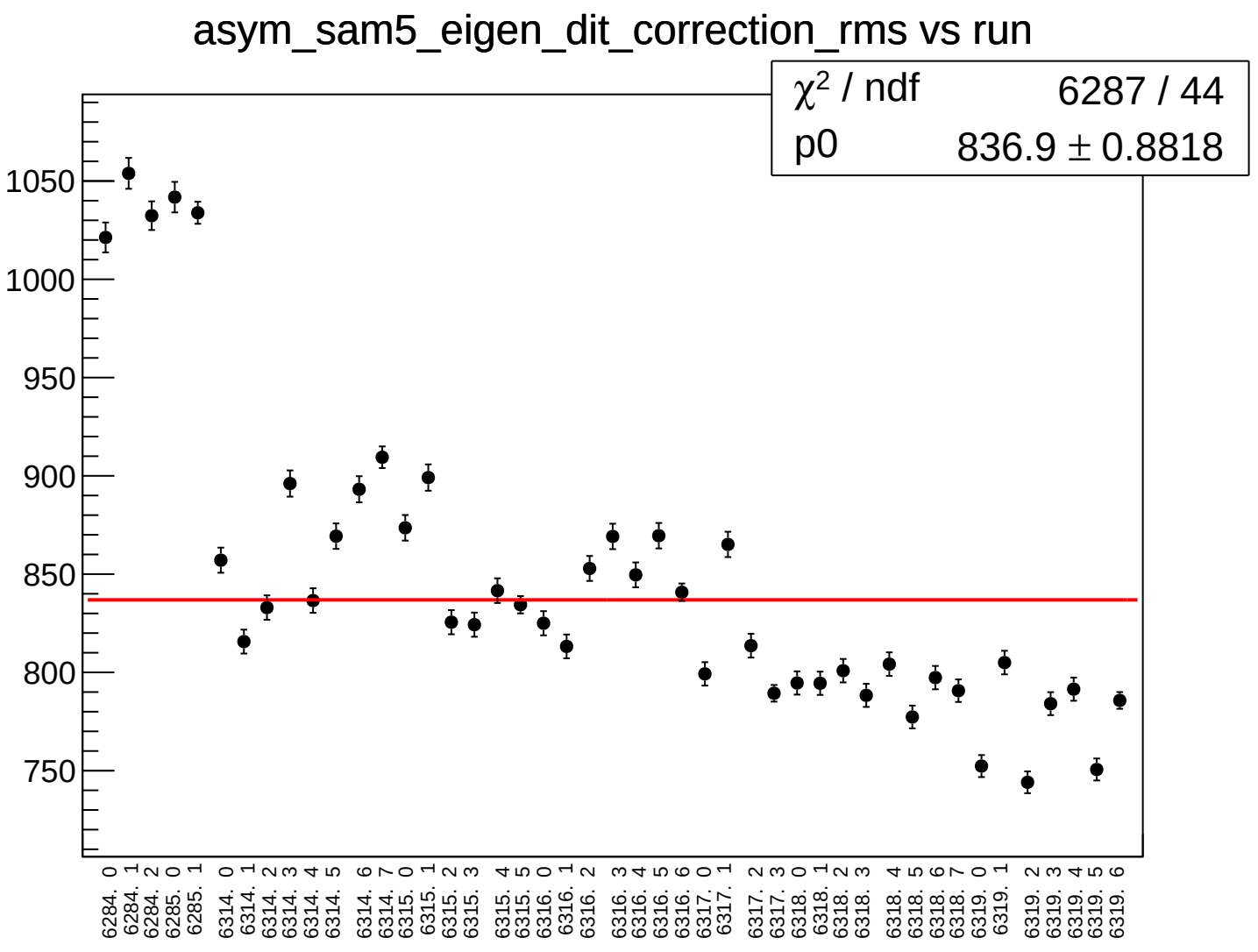
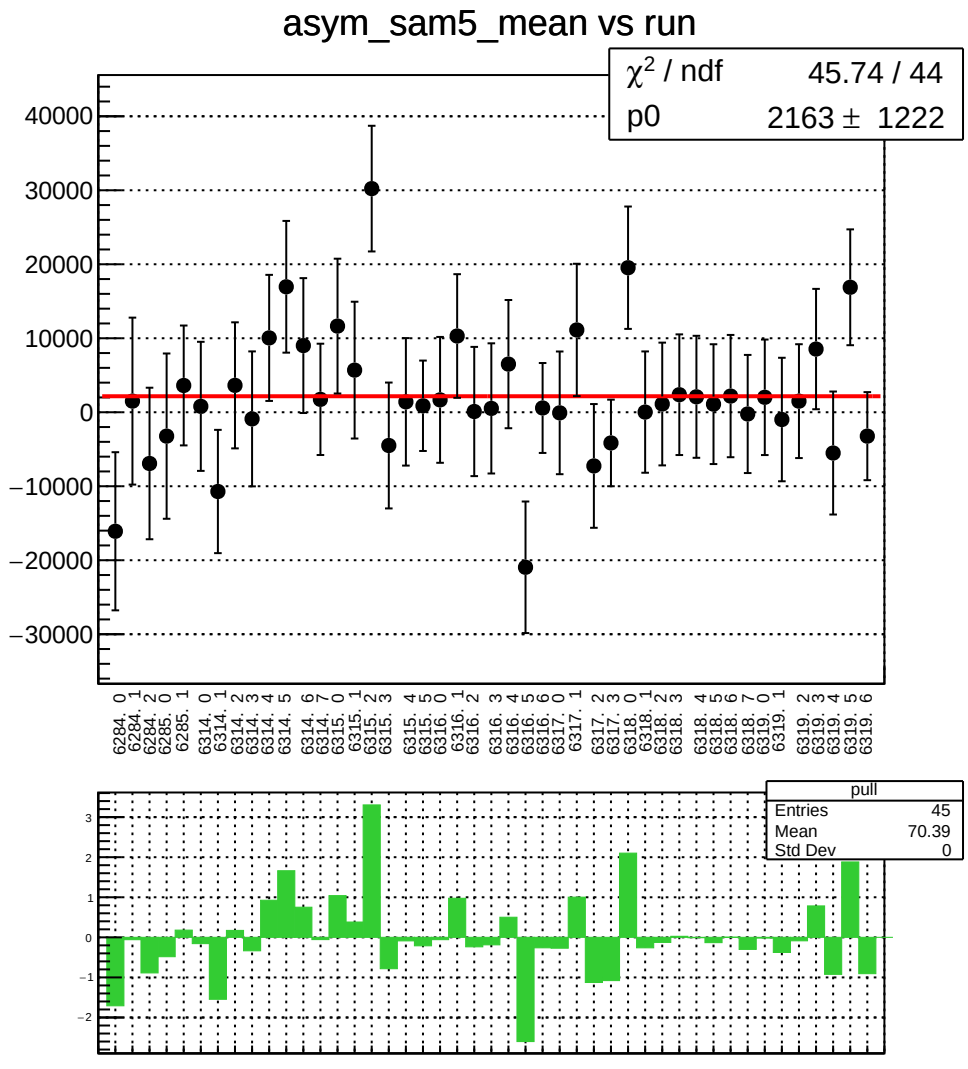
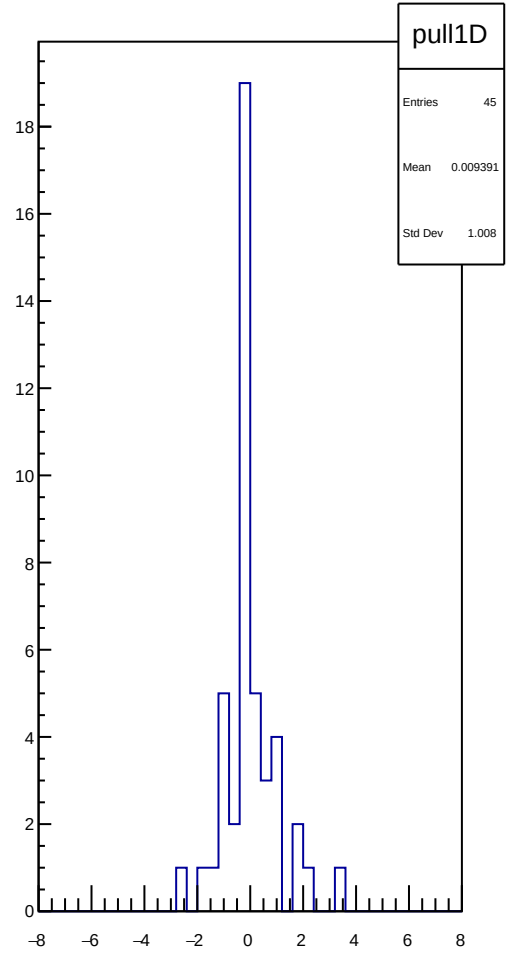
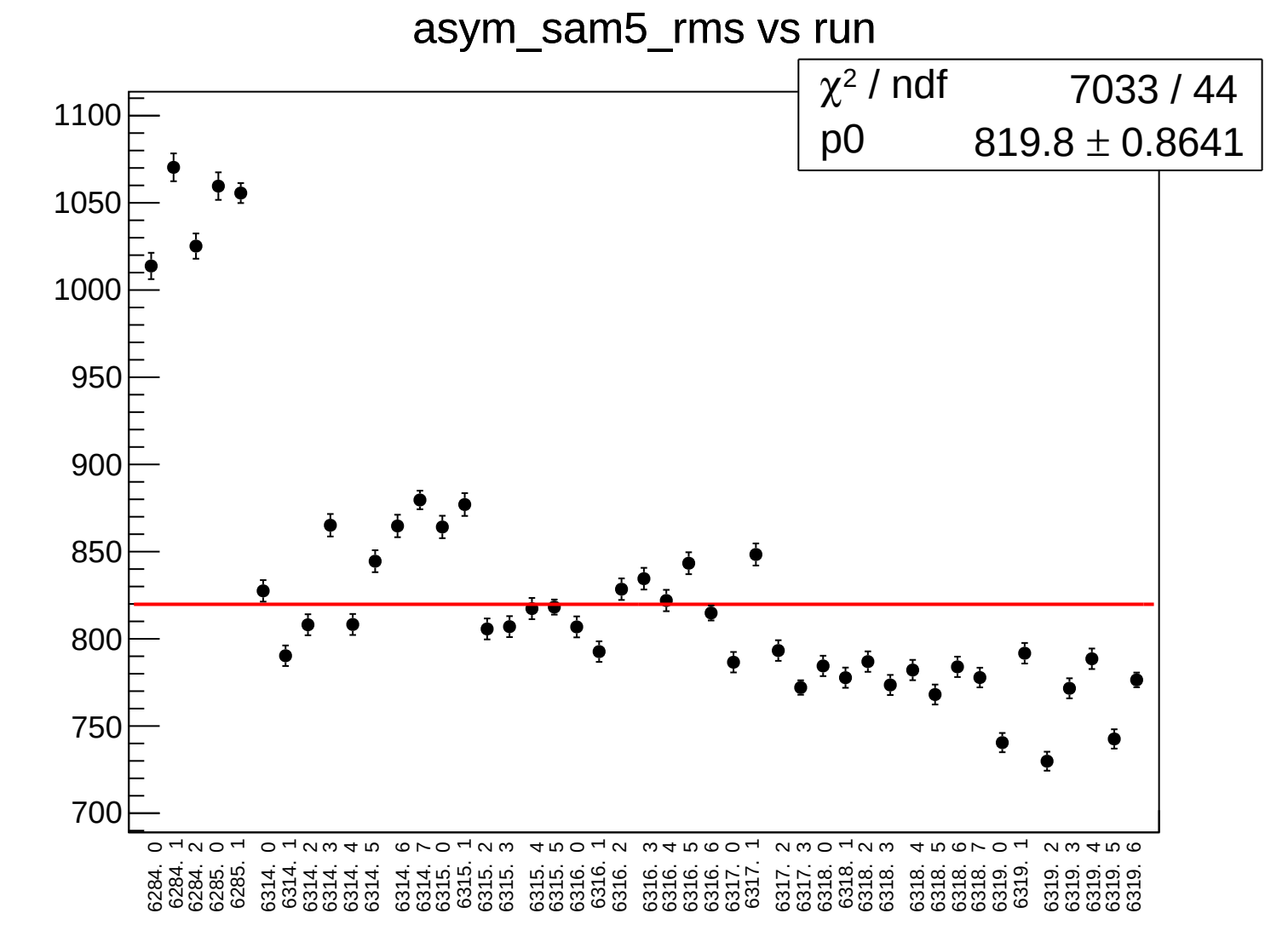
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01318
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6287 / 44
p0 836.9 ± 0.8818
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam5_mean vs run
χ^2 / ndf 45.74 / 44
p0 2163 ± 1222
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 70.39
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.009391
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_rms vs run
χ² / ndf 7033 / 44
p0 819.8 ± 0.8641
1100
1050
1000
950
900
850
800
750
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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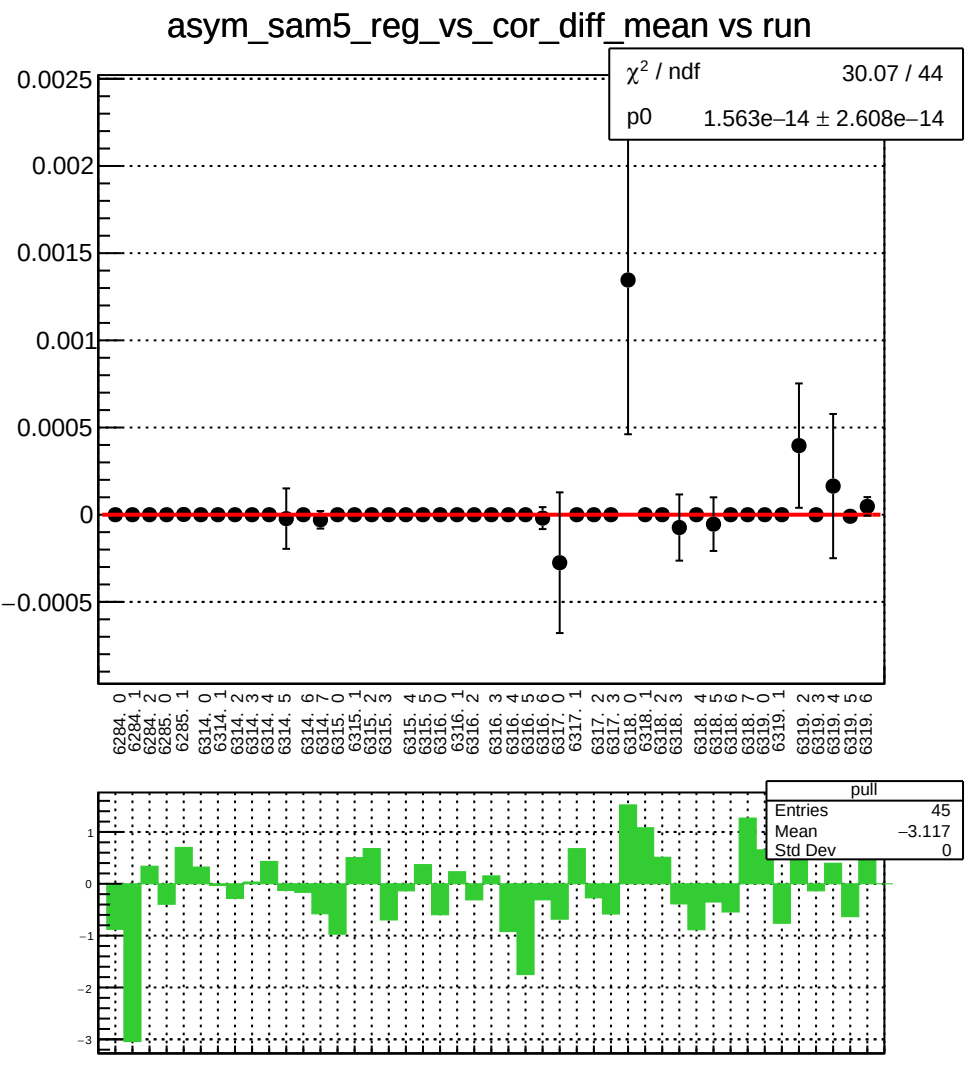
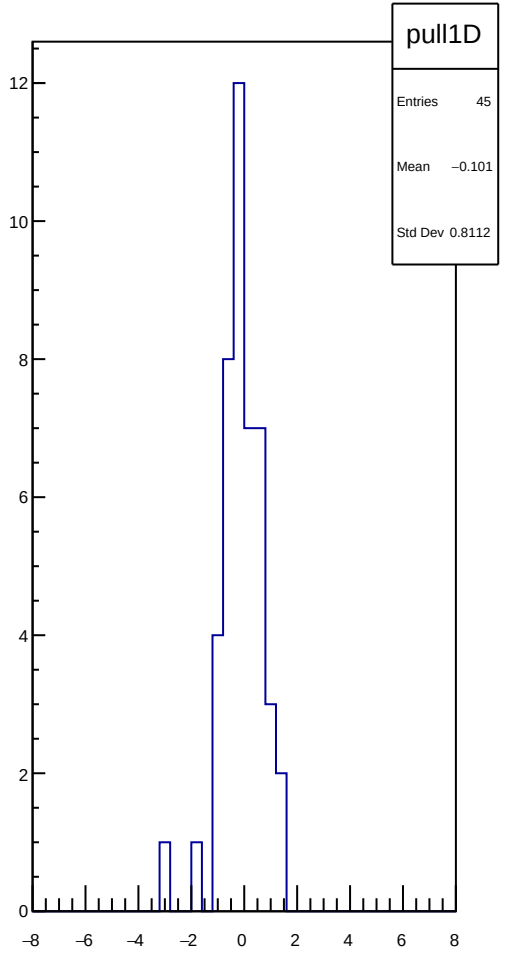
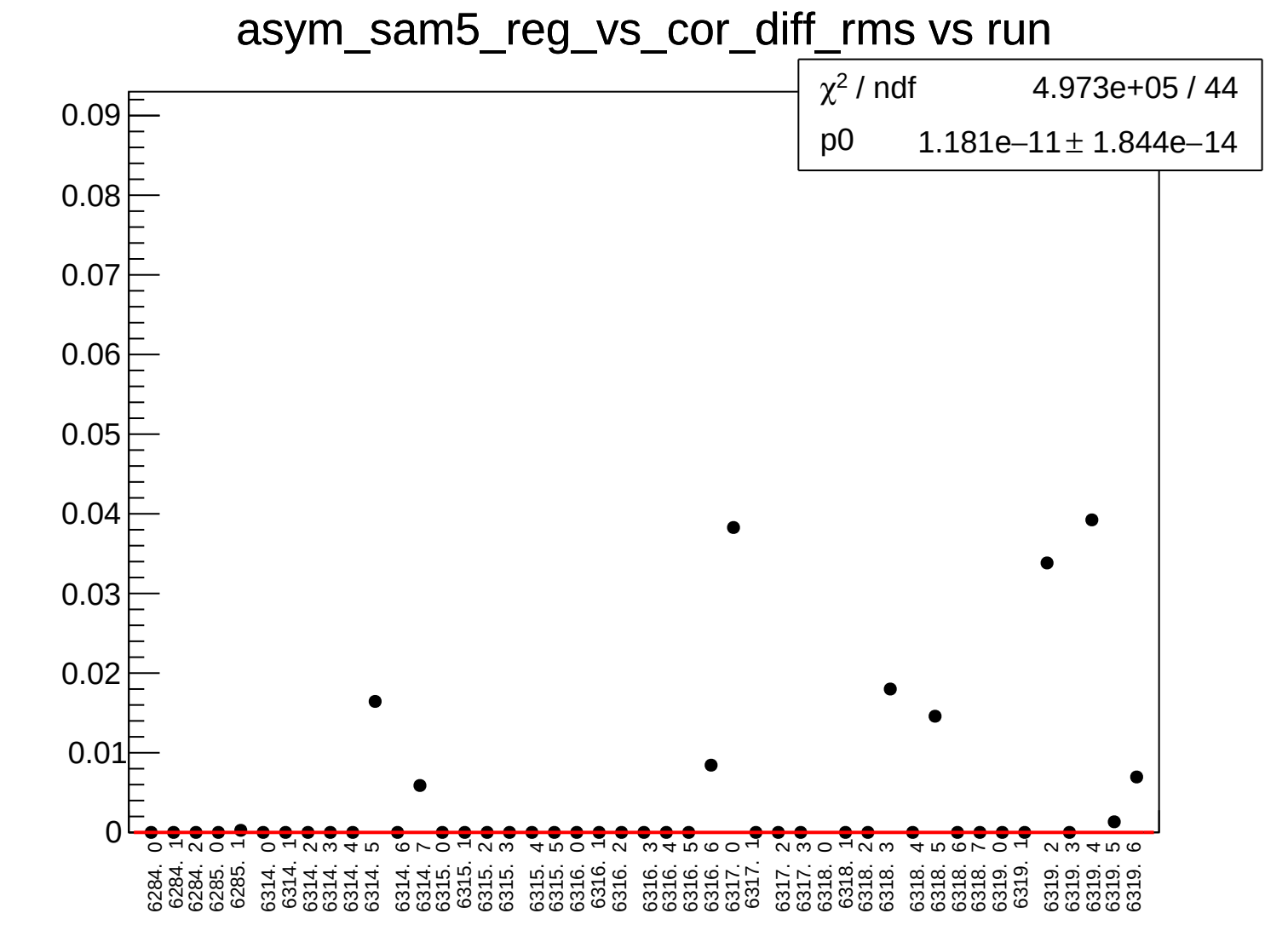
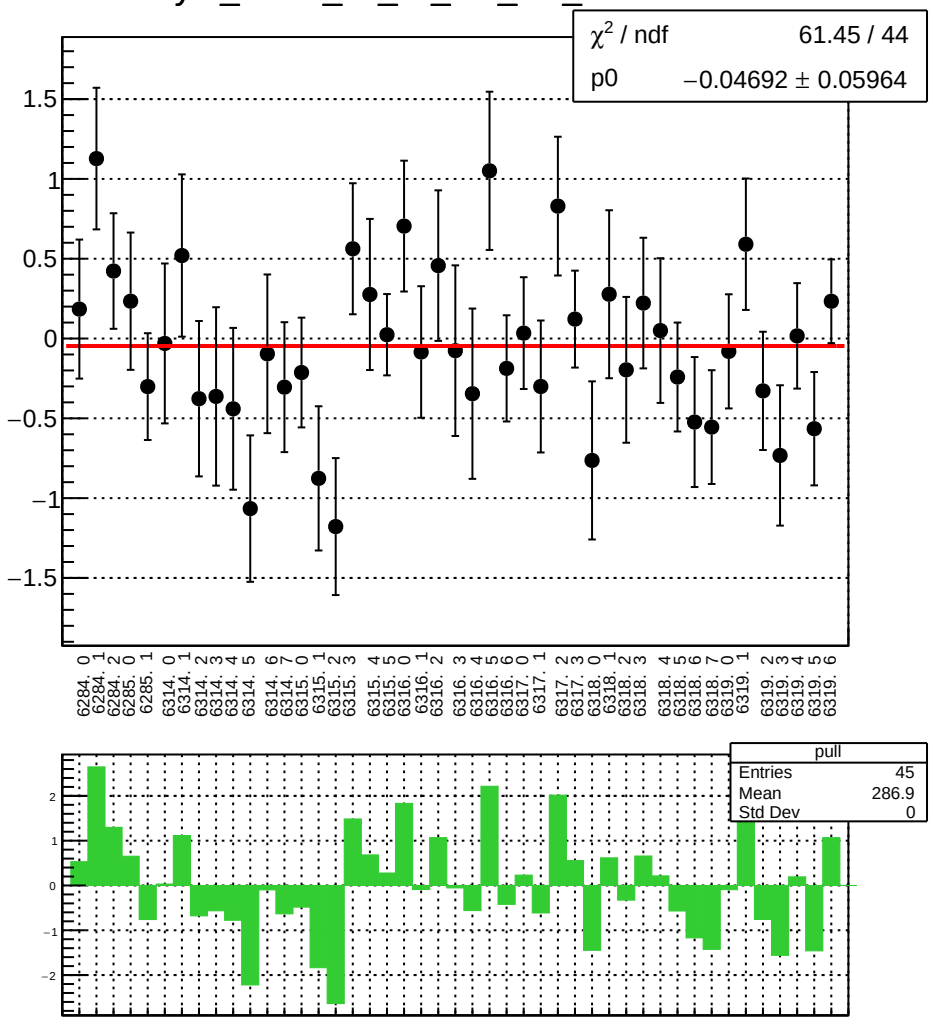
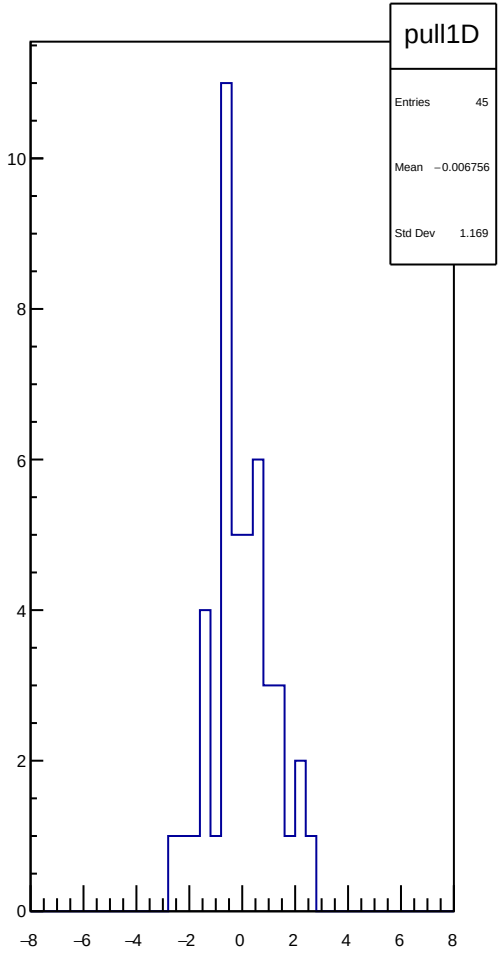
6319. 5
6319. 6

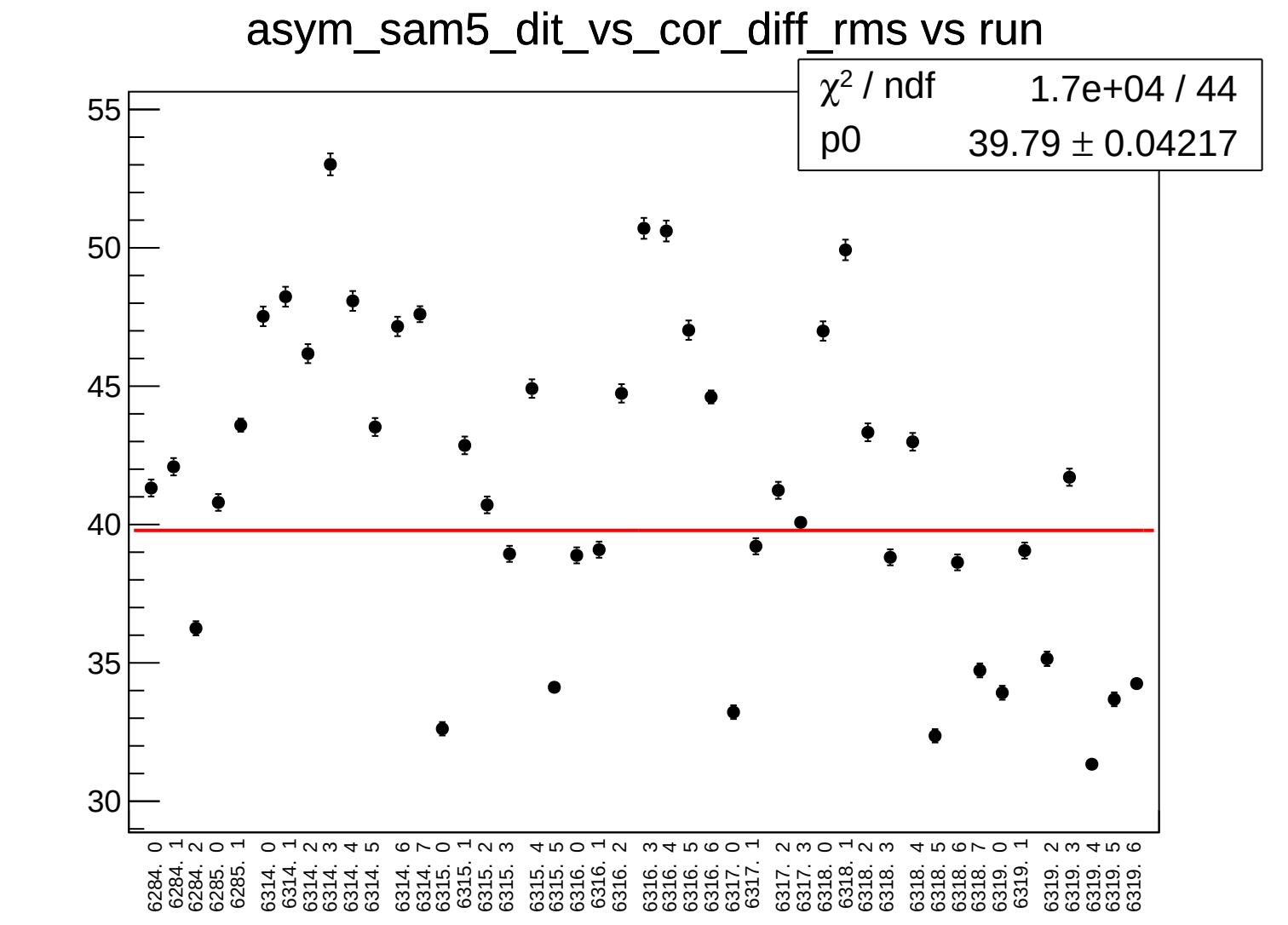

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 30.07 / 44
p0 1.563e−14 ± 2.608e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3.117
Std Dev 0
1
0
−1
−2
−3

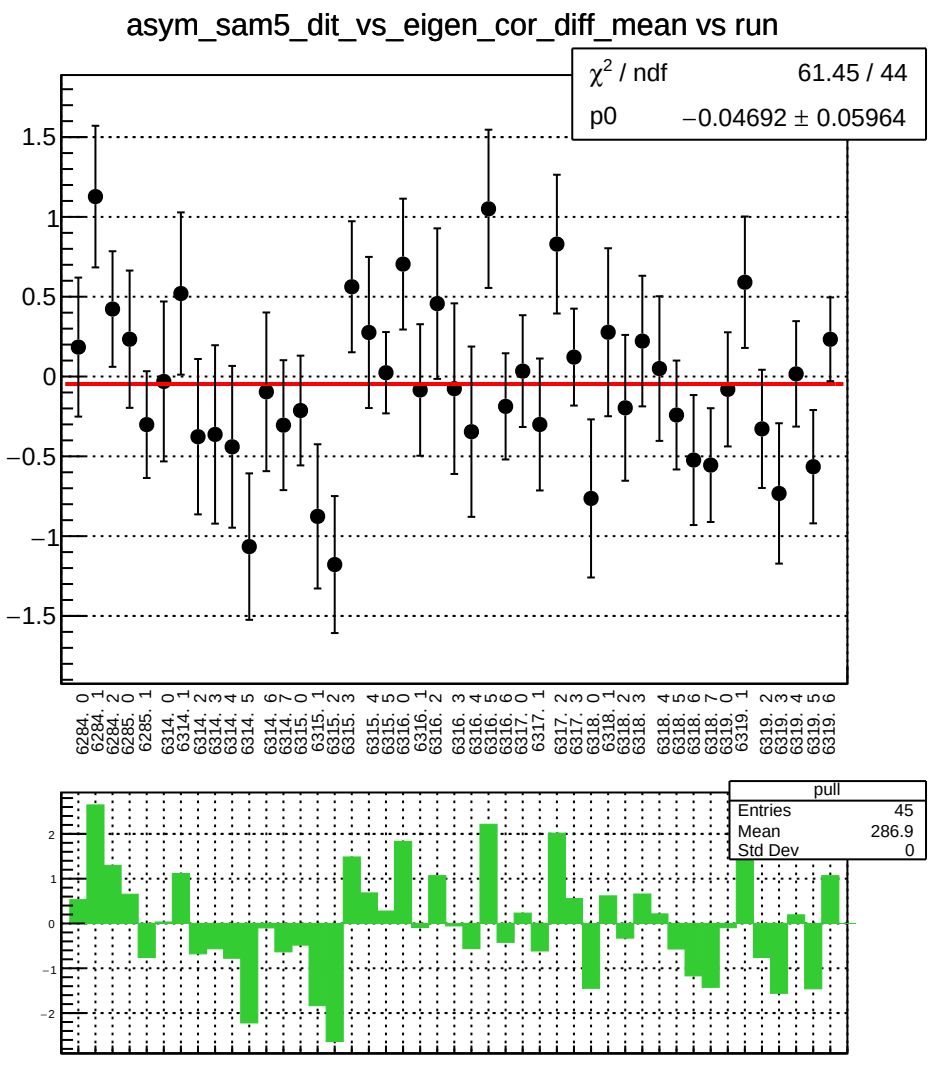

pull1D
Entries 45
Mean −0.101
Std Dev 0.8112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

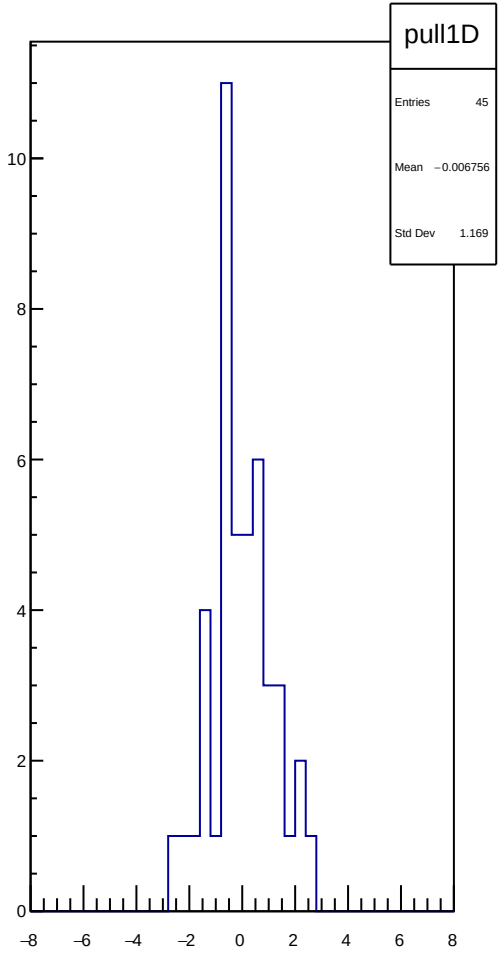

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 4.973e+05 / 44
p0 1.181e−11 ± 1.844e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

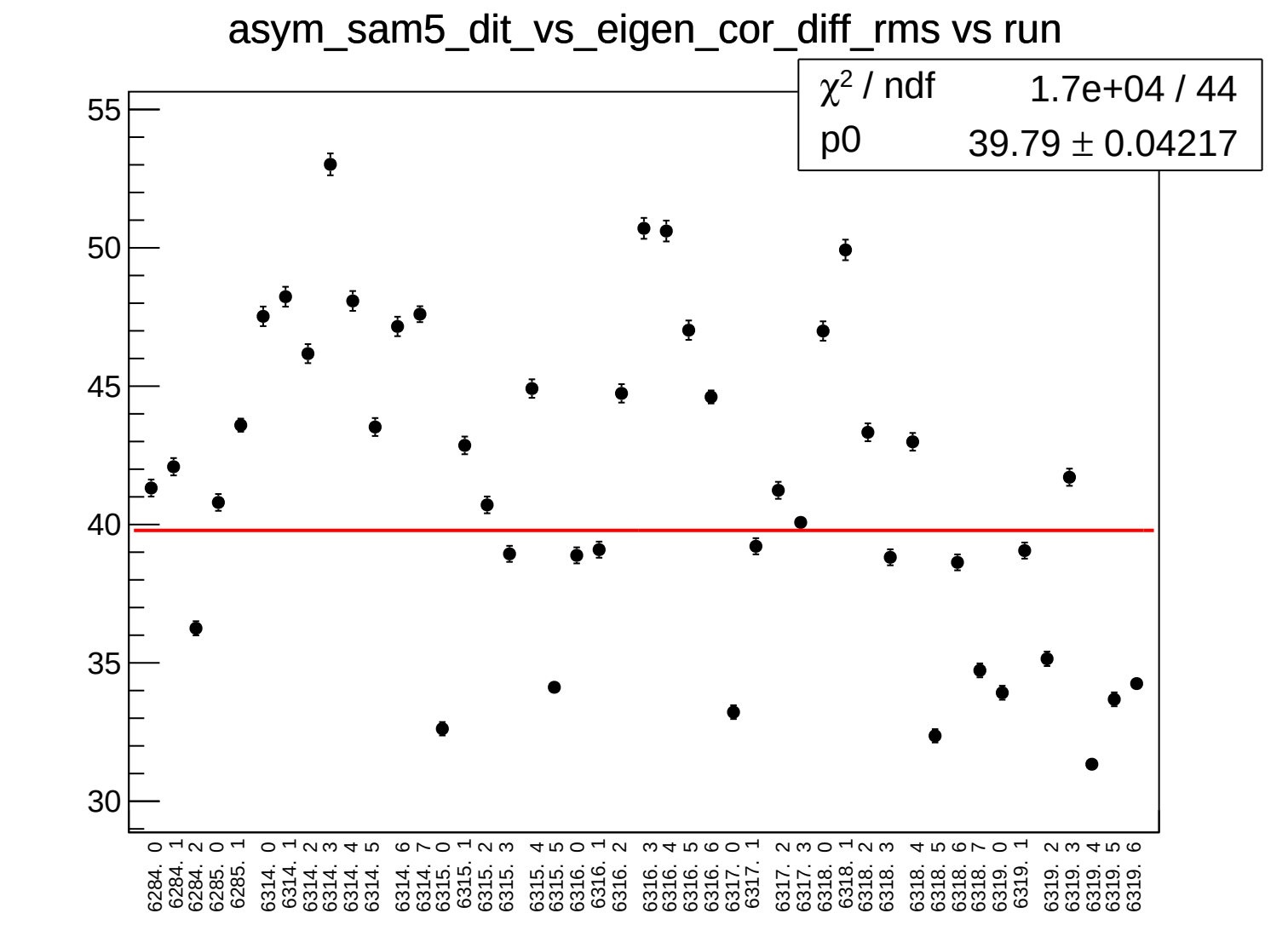

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 61.45 / 44
p0 −0.04692 ± 0.05964
pull
Entries 45
Mean 286.9
Std Dev 0

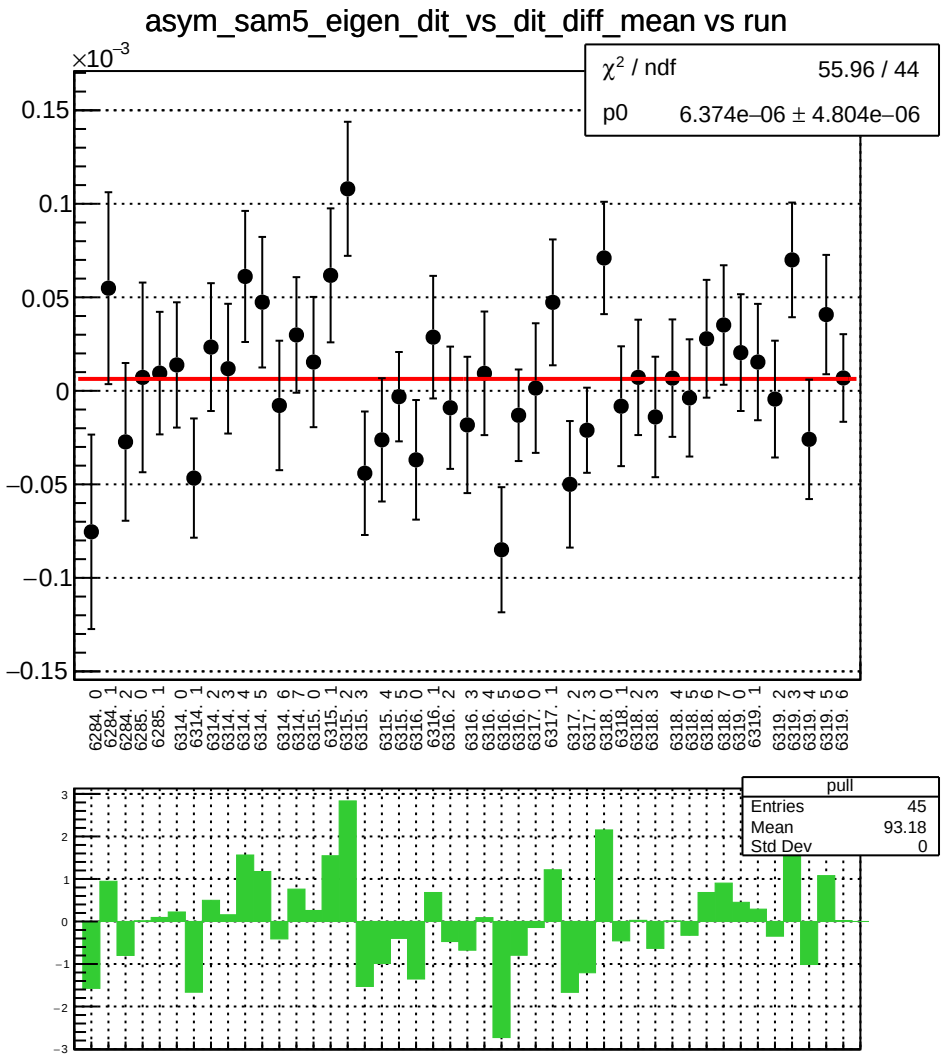

pull1D
Entries 45
Mean −0.006756
Std Dev 1.169

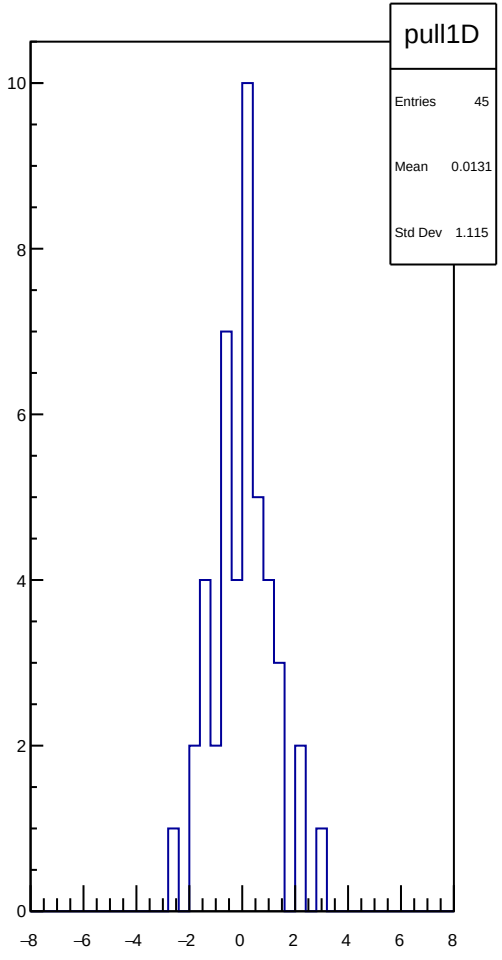

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+04 / 44
p0 39.79 ± 0.04217
55
50
45
40
35
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

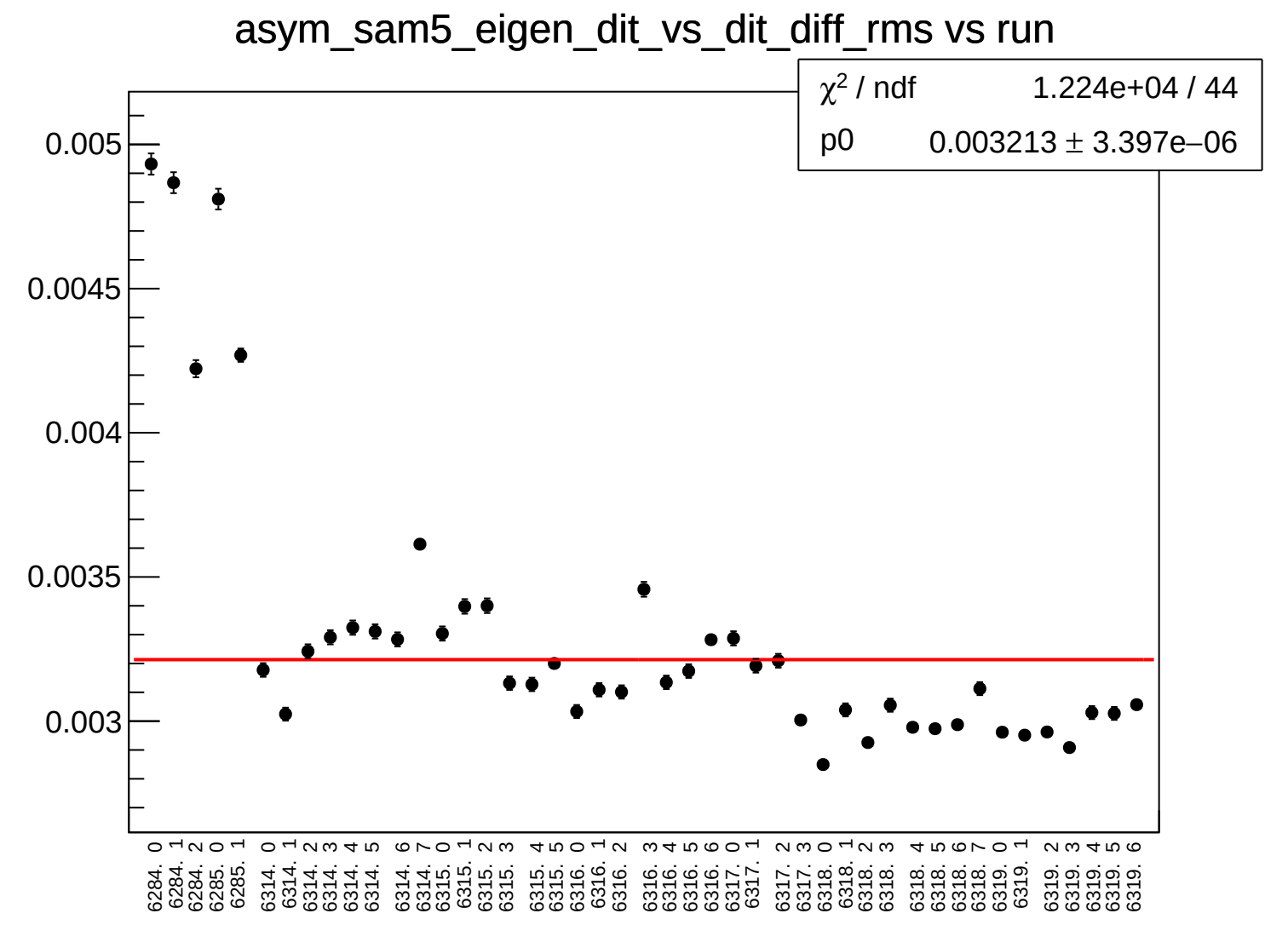

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.45 / 44
p0 −0.04692 ± 0.05964
pull
Entries 45
Mean 286.9
Std Dev 0

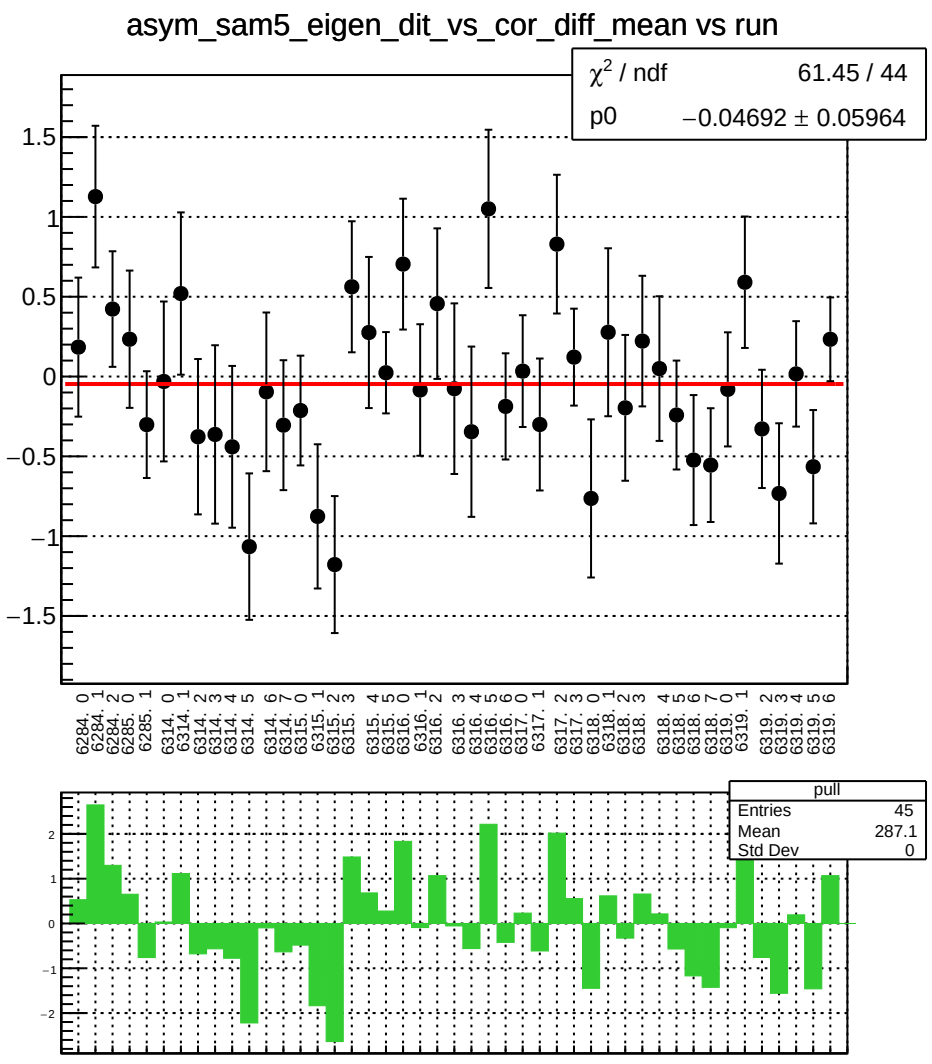

pull1D
Entries 45
Mean −0.006756
Std Dev 1.169

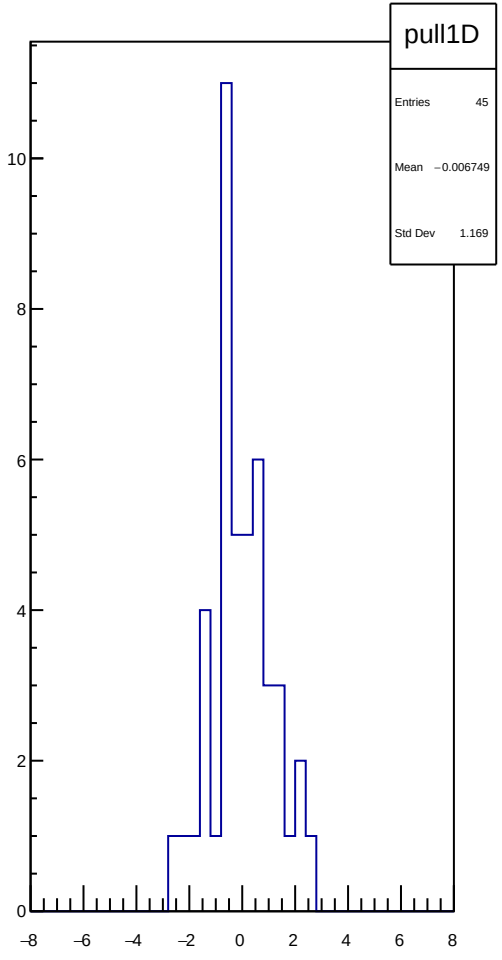

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+04 / 44
p0 39.79 ± 0.04217
55
50
45
40
35
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

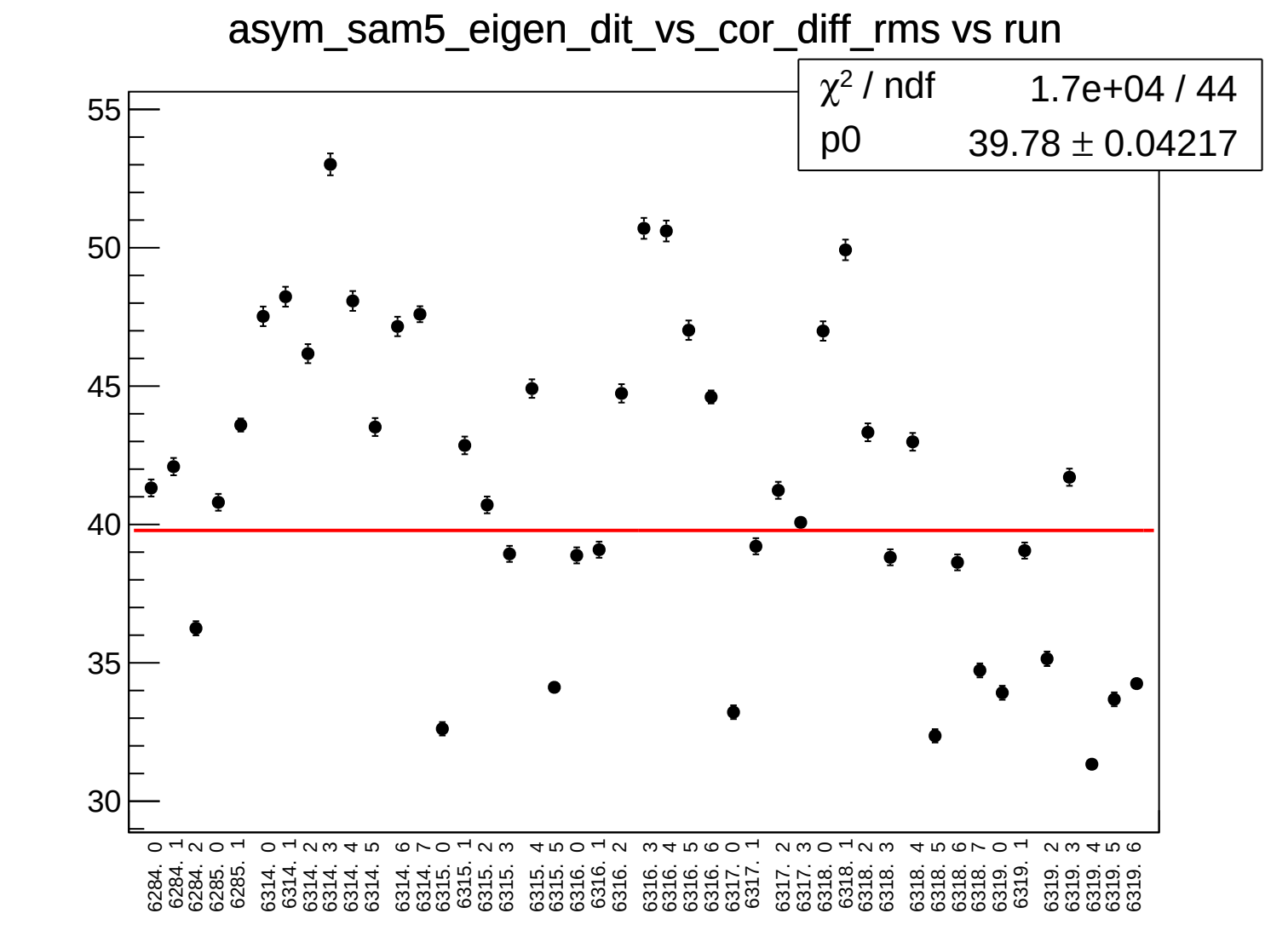

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 55.96 / 44
p0 6.374e−06 ± 4.804e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.18
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0131
Std Dev 1.115
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.224e+04 / 44
p0 0.003213 ± 3.397e−06
0.005
0.0045
0.004
0.0035
0.003
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.45 / 44
p0 −0.04692 ± 0.05964
pull
Entries 45
Mean 287.1
Std Dev 0


pull1D
Entries 45
Mean −0.006749
Std Dev 1.169


asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+04 / 44
p0 39.78 ± 0.04217
55
50
45
40
35
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 3
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6318. 2
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6318. 7
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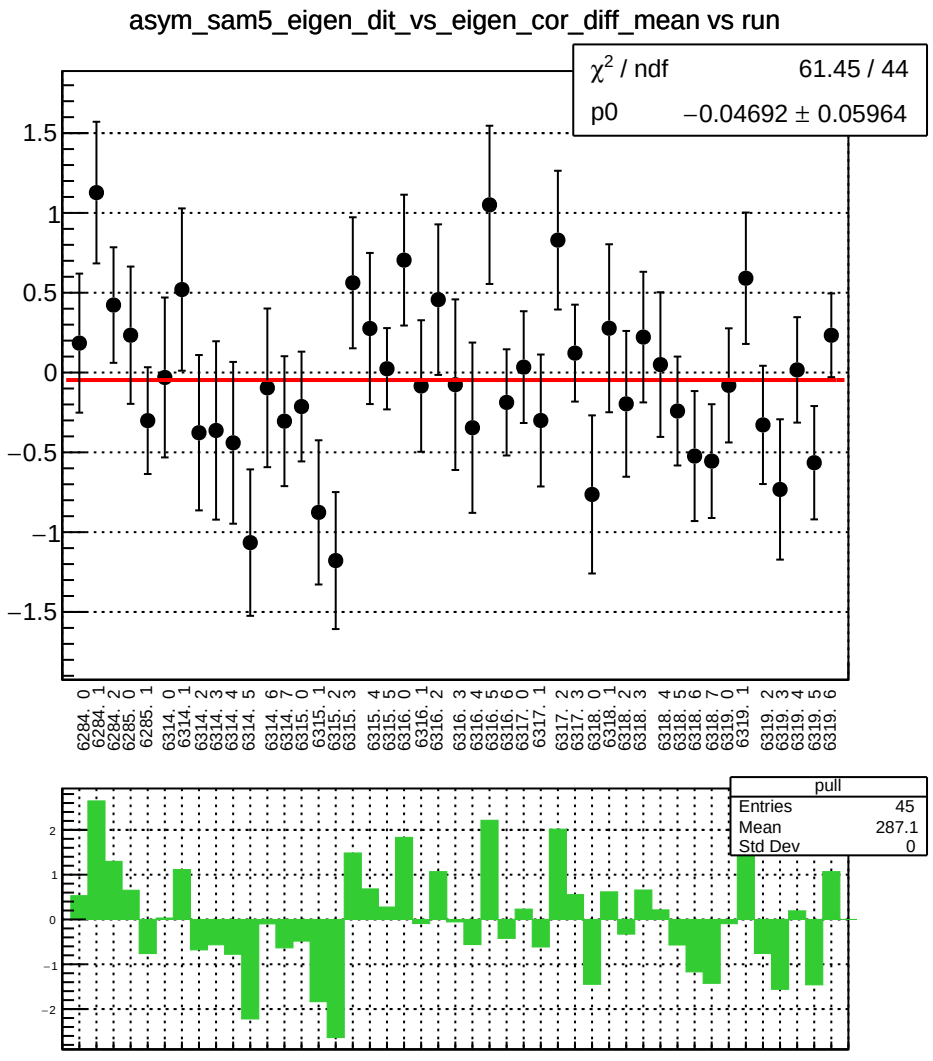
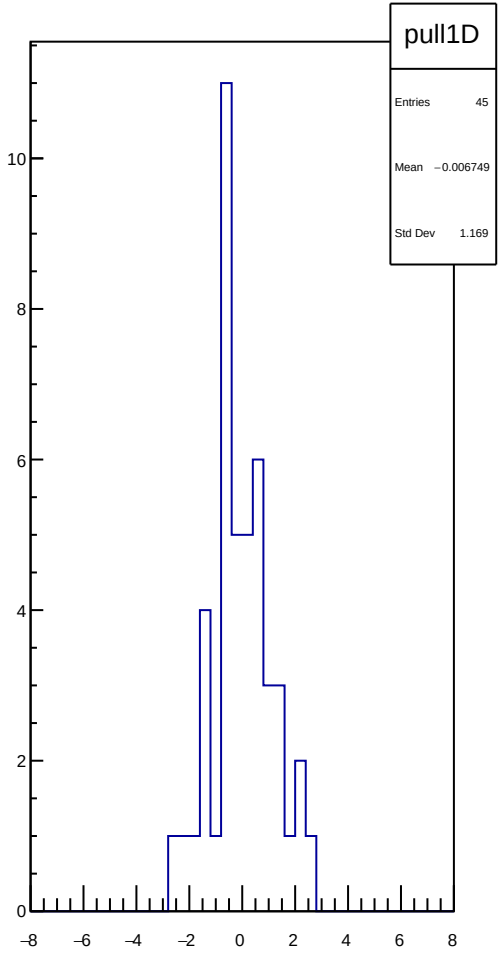
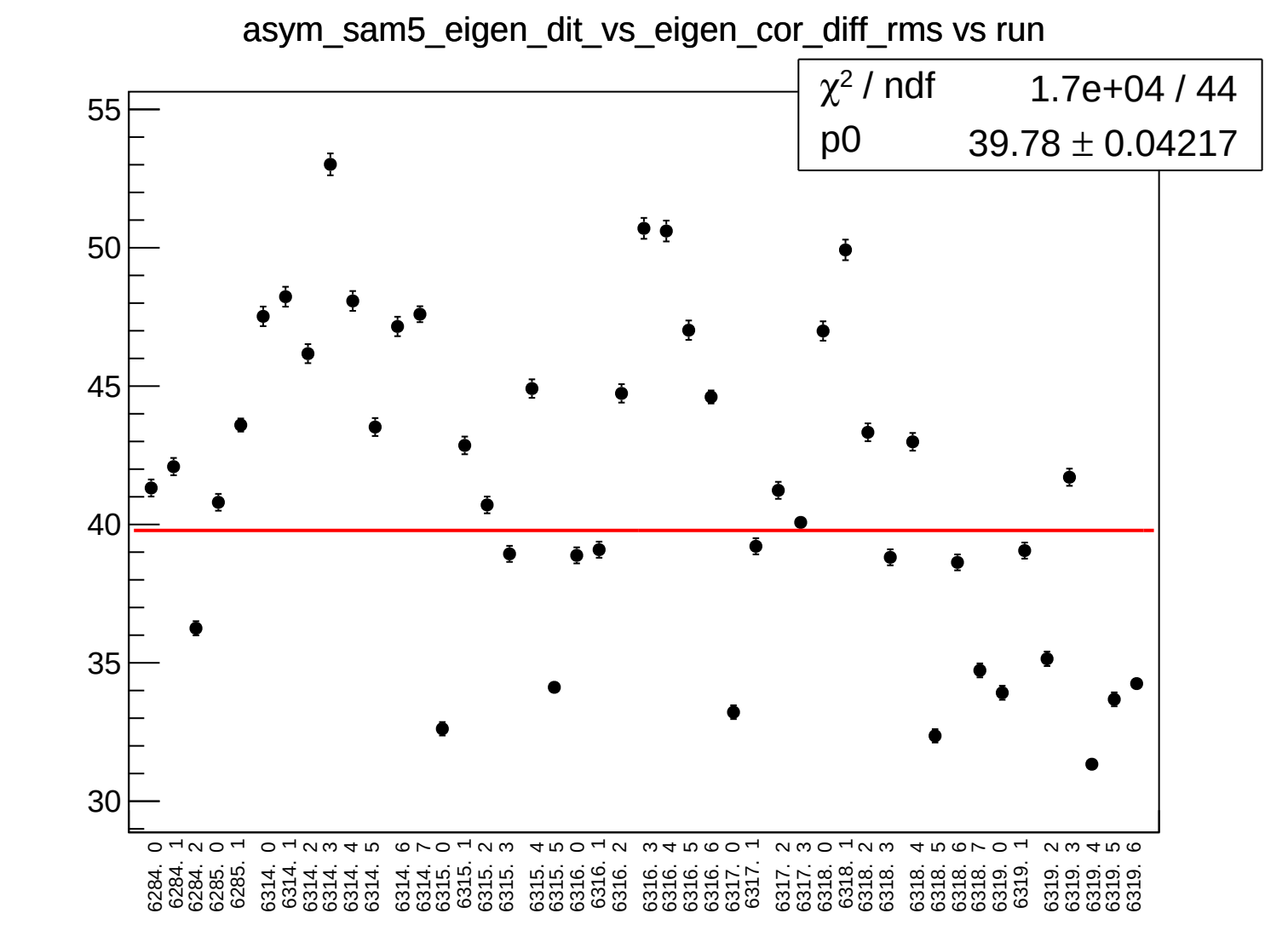
6319. 6


asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.45 / 44
p0 −0.04692 ± 0.05964
1.5
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 287.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.006749
Std Dev 1.169
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+04 / 44
p0 39.78 ± 0.04217
55
50
45
40
35
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
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6315. 4
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6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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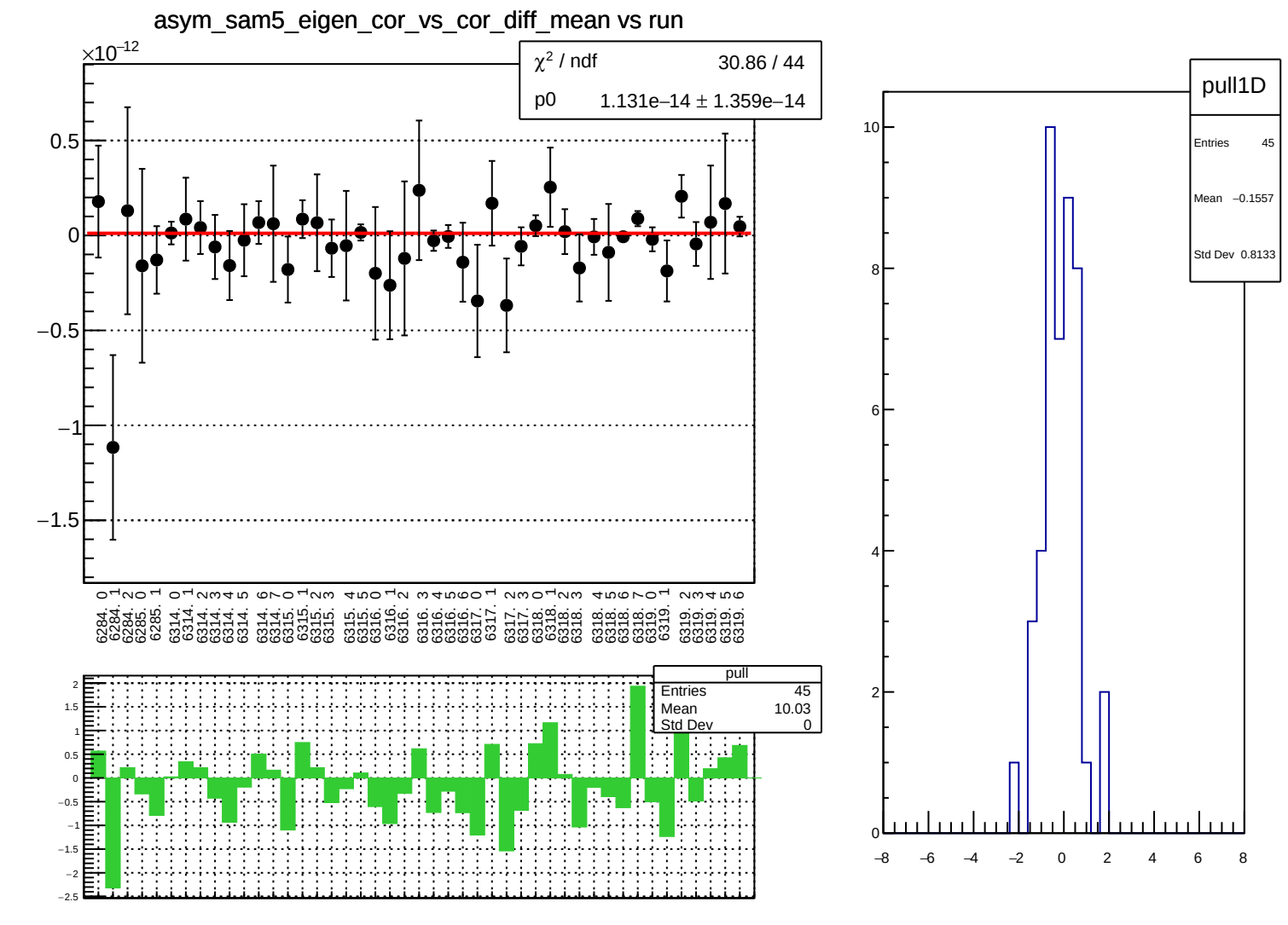
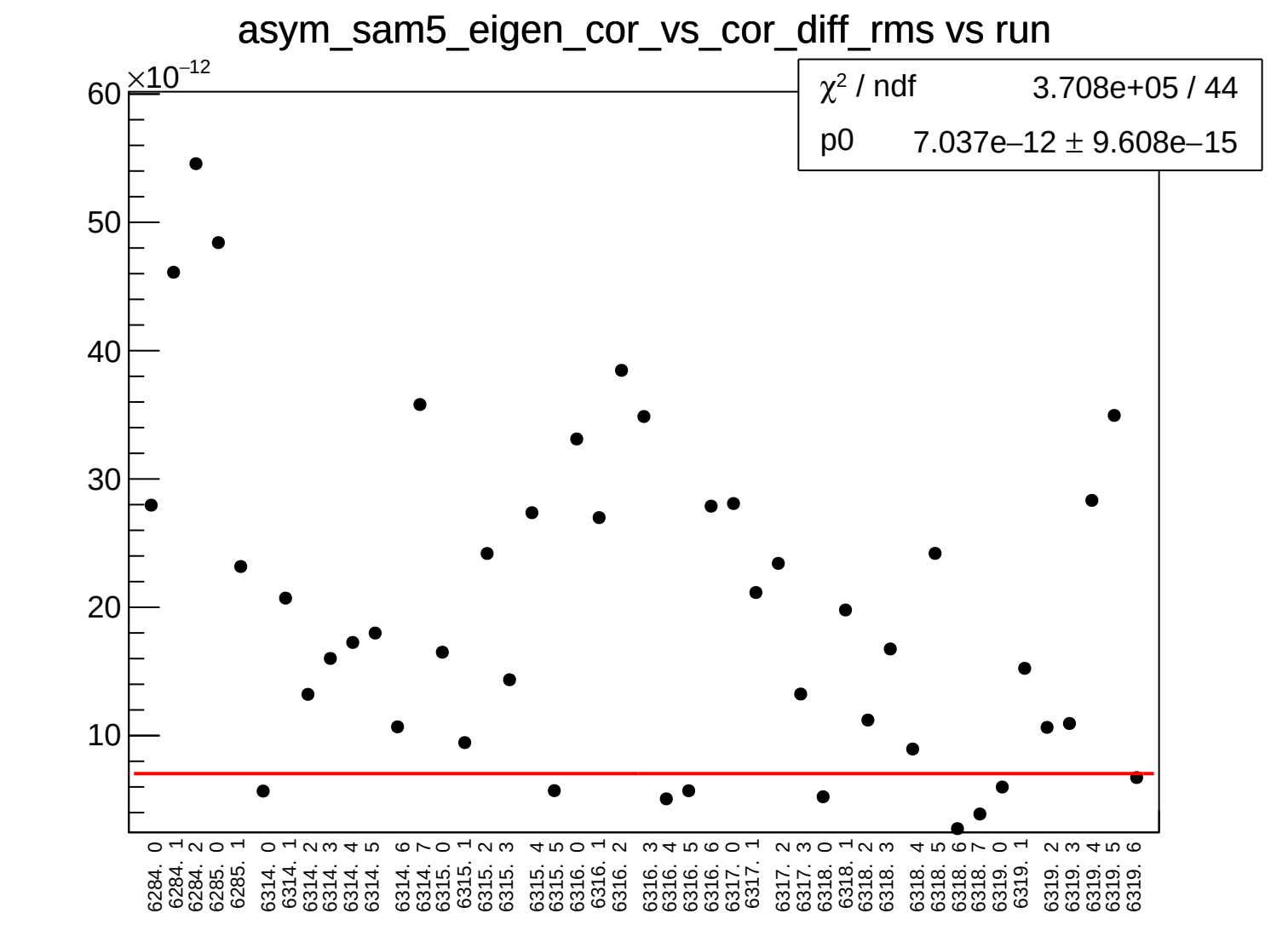
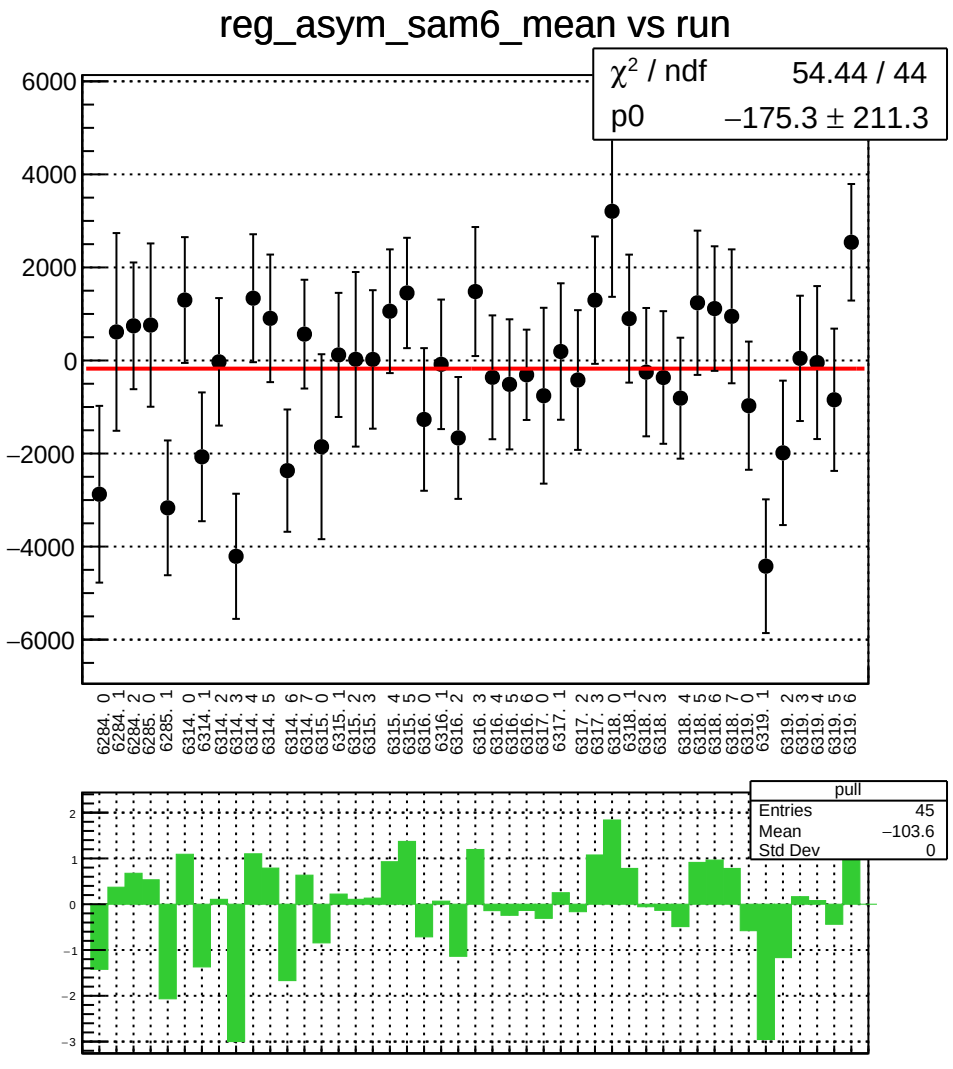
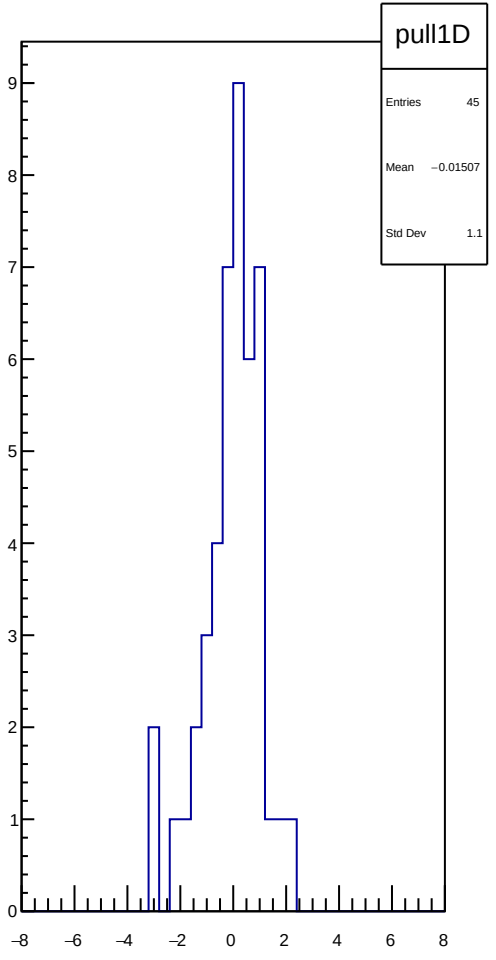
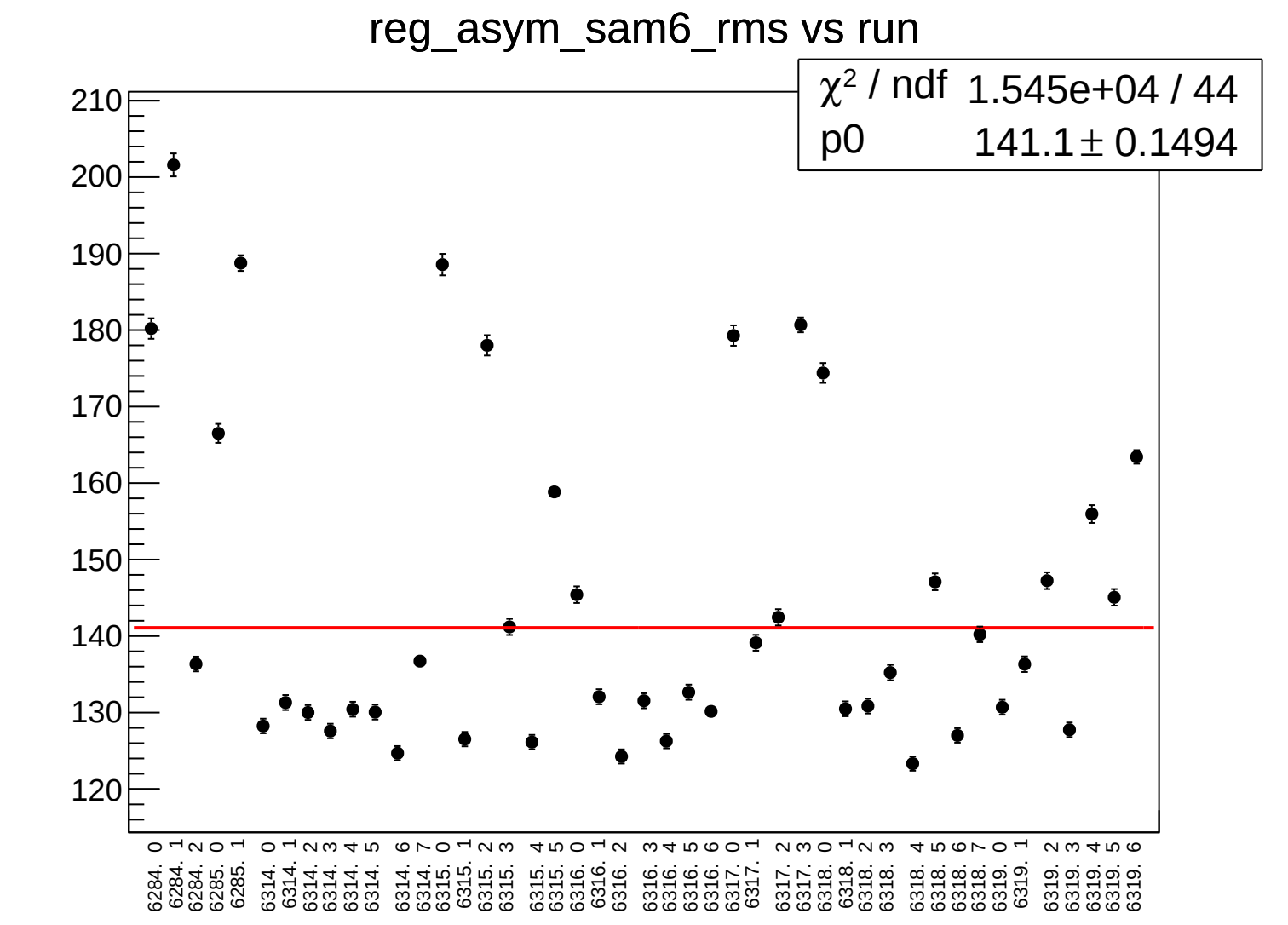
6319. 4
6319. 5
6319. 6

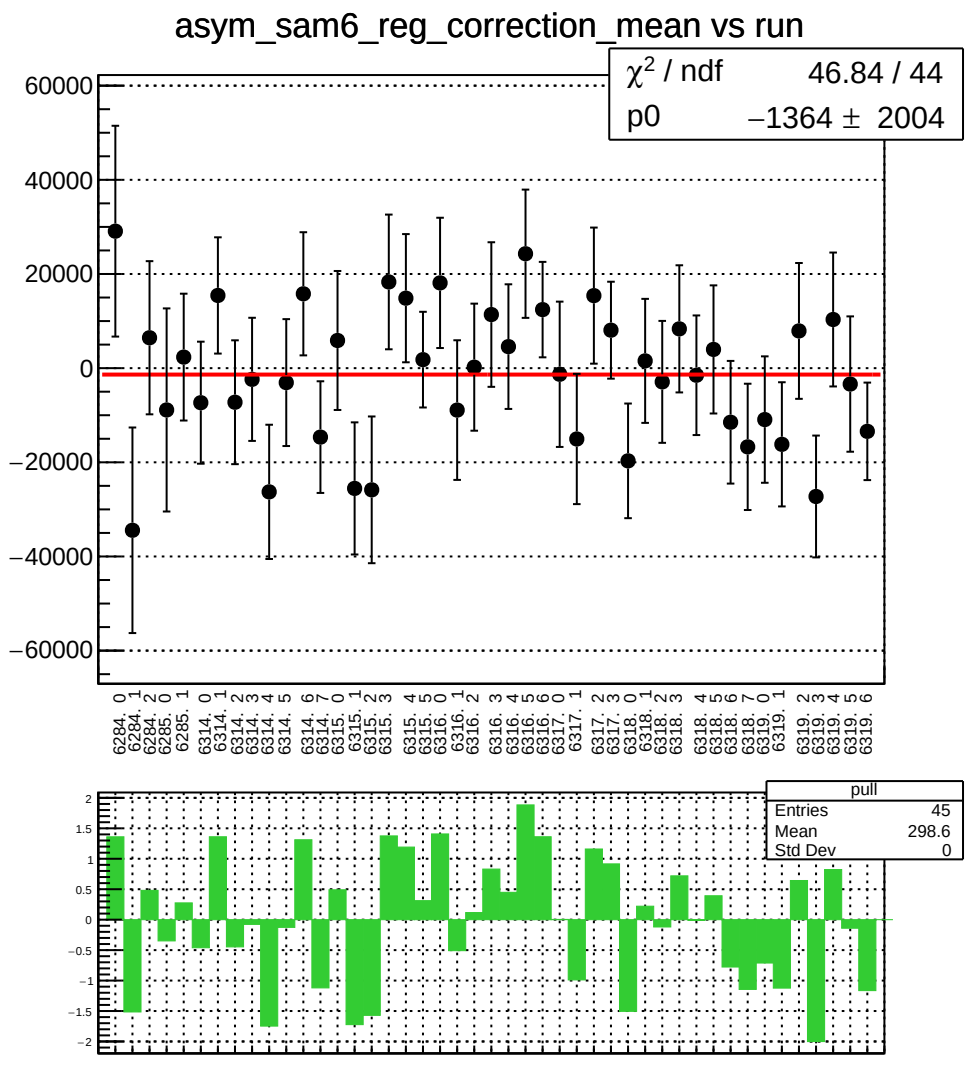

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.86 / 44
p0 1.131e−14 ± 1.359e−14
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.1557
Std Dev 0.8133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

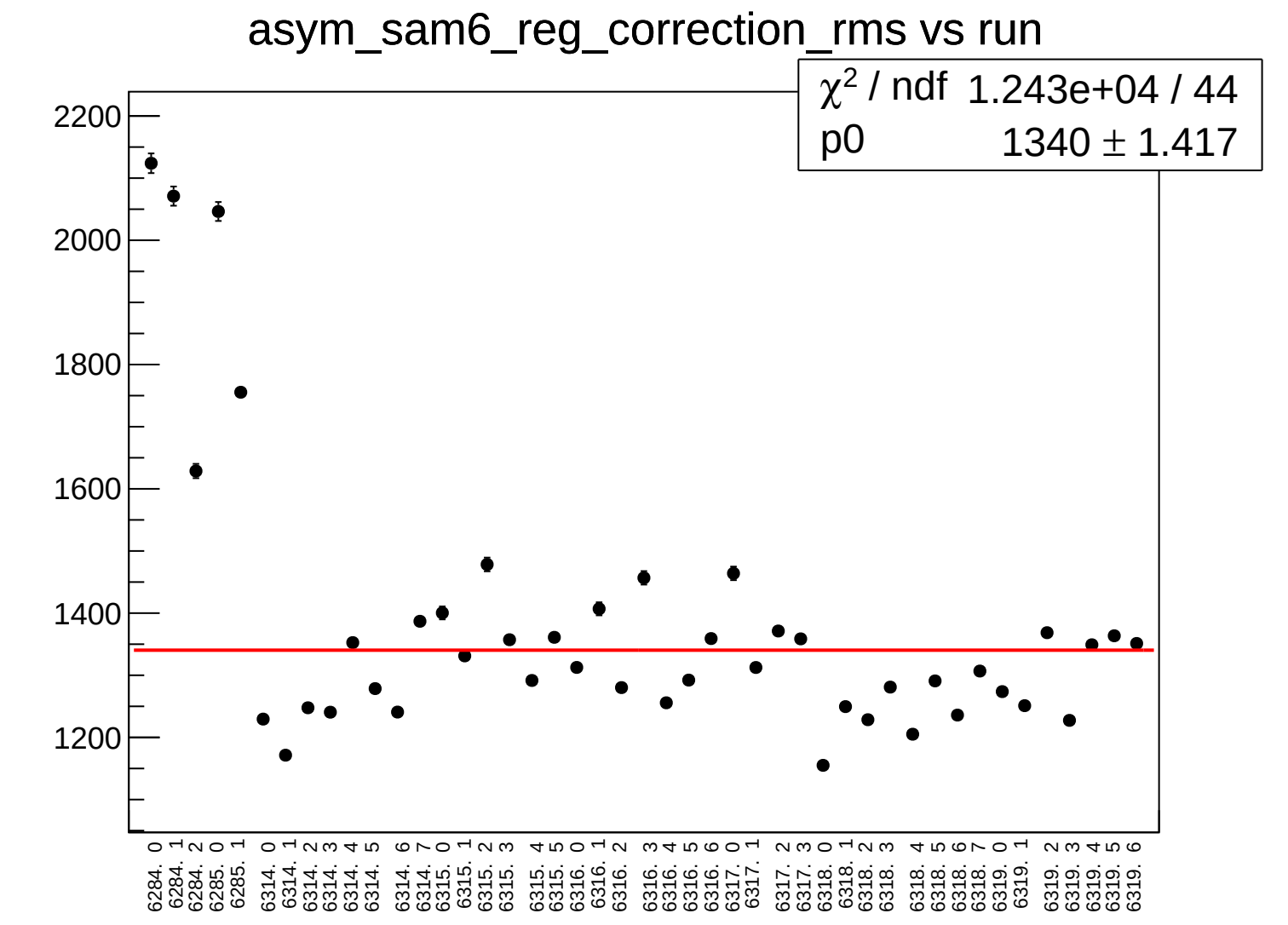

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.708e+05 / 44
p0 7.037e−12 ± 9.608e−15
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

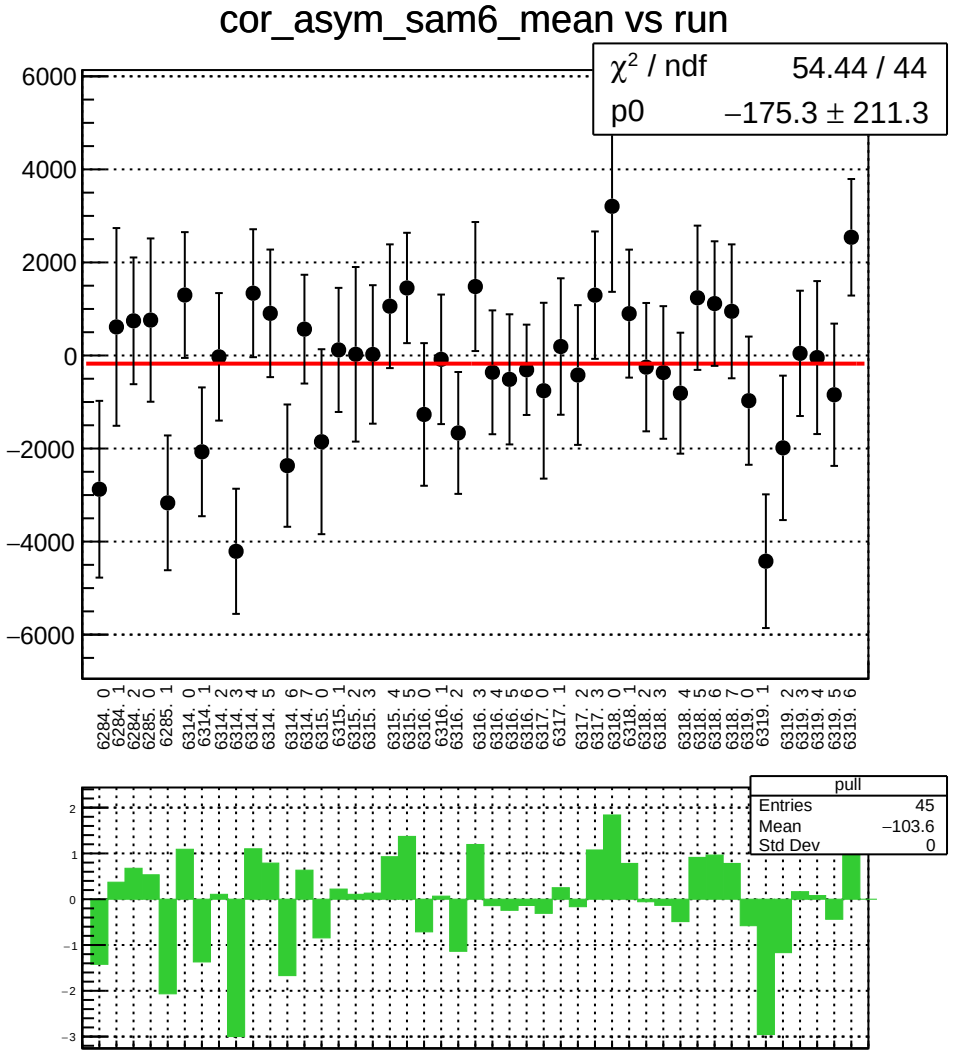

reg_asym_sam6_mean vs run
χ² / ndf 54.44 / 44
p0 −175.3 ± 211.3
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3

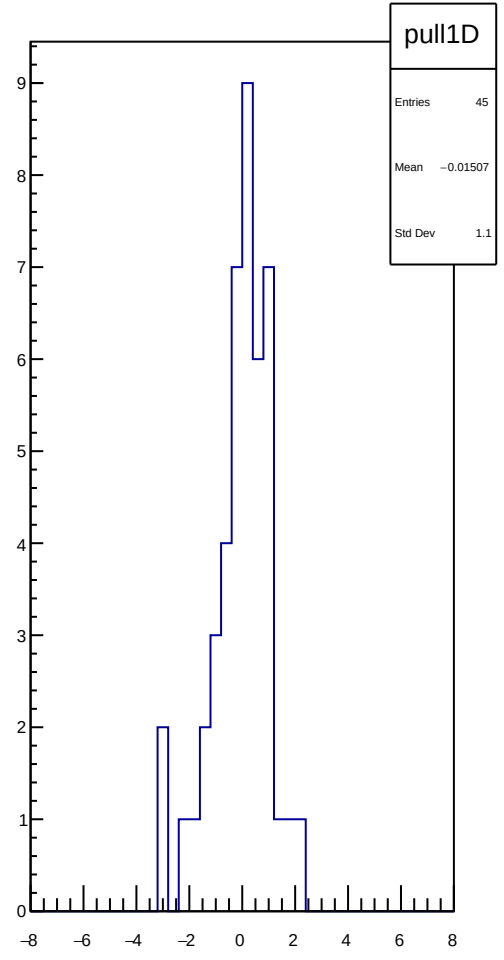

pull1D
Entries 45
Mean −0.01507
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

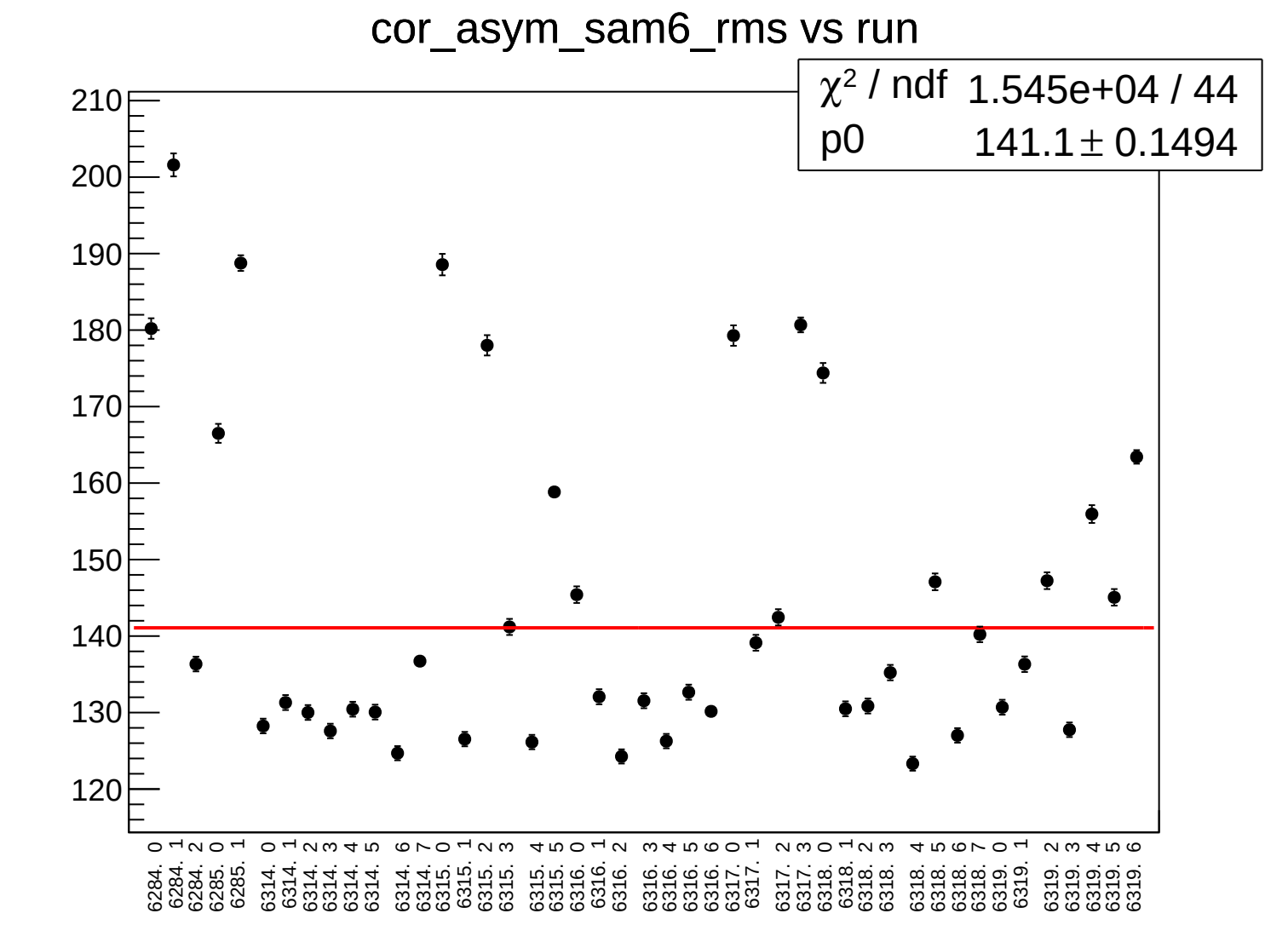

reg_asym_sam6_rms vs run
χ² / ndf 1.545e+04 / 44
p0 141.1 ± 0.1494
210
200
190
180
170
160
150
140
130
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

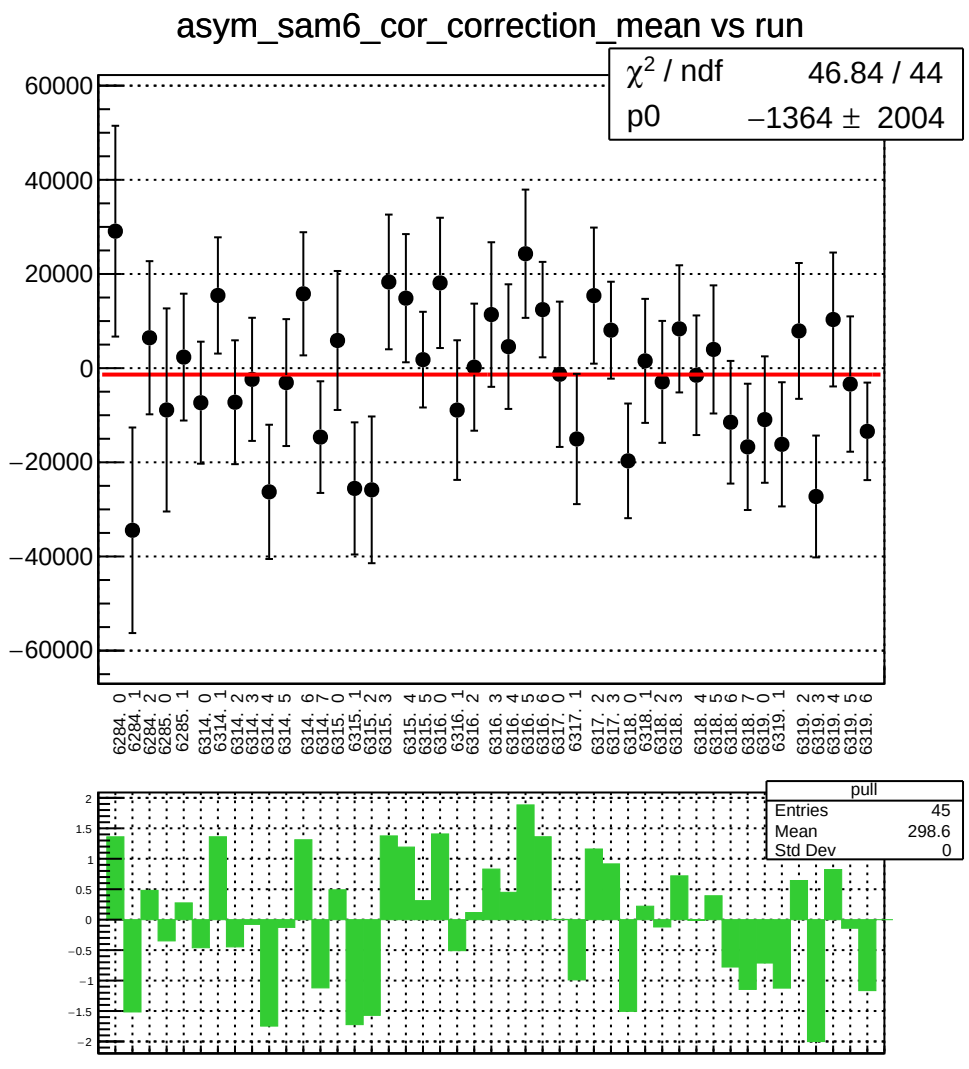

asym_sam6_reg_correction_mean vs run
χ² / ndf 46.84 / 44
p0 −1364 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 298.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005503
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

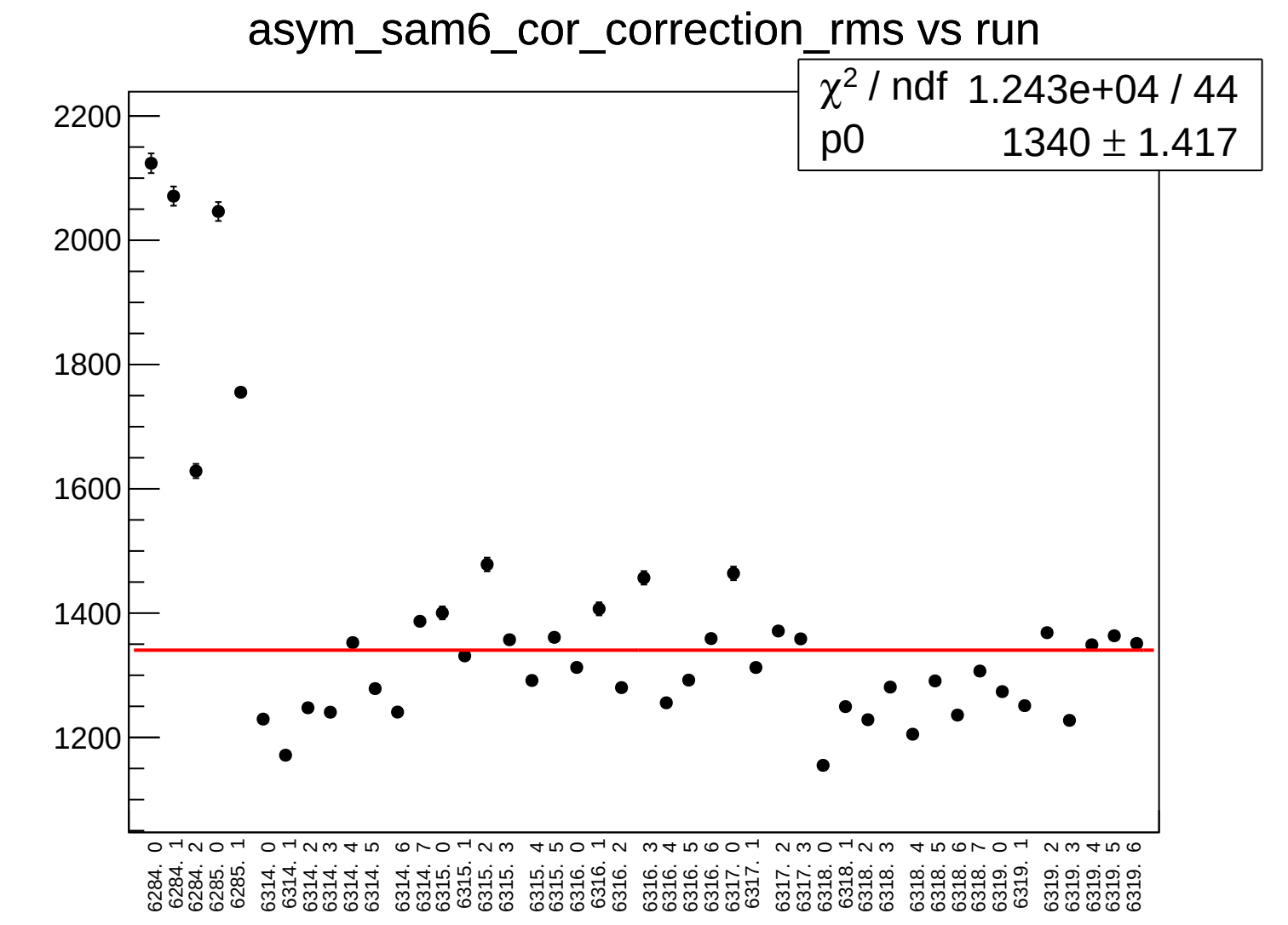

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.243e+04 / 44
p0 1340 ± 1.417
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam6_mean vs run
χ² / ndf 54.44 / 44
p0 −175.3 ± 211.3
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01507
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam6_rms vs run
χ² / ndf 1.545e+04 / 44
p0 141.1 ± 0.1494
210
200
190
180
170
160
150
140
130
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam6_cor_correction_mean vs run
χ² / ndf 46.84 / 44
p0 −1364 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 298.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005503
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 1.243e+04 / 44
p0 1340 ± 1.417
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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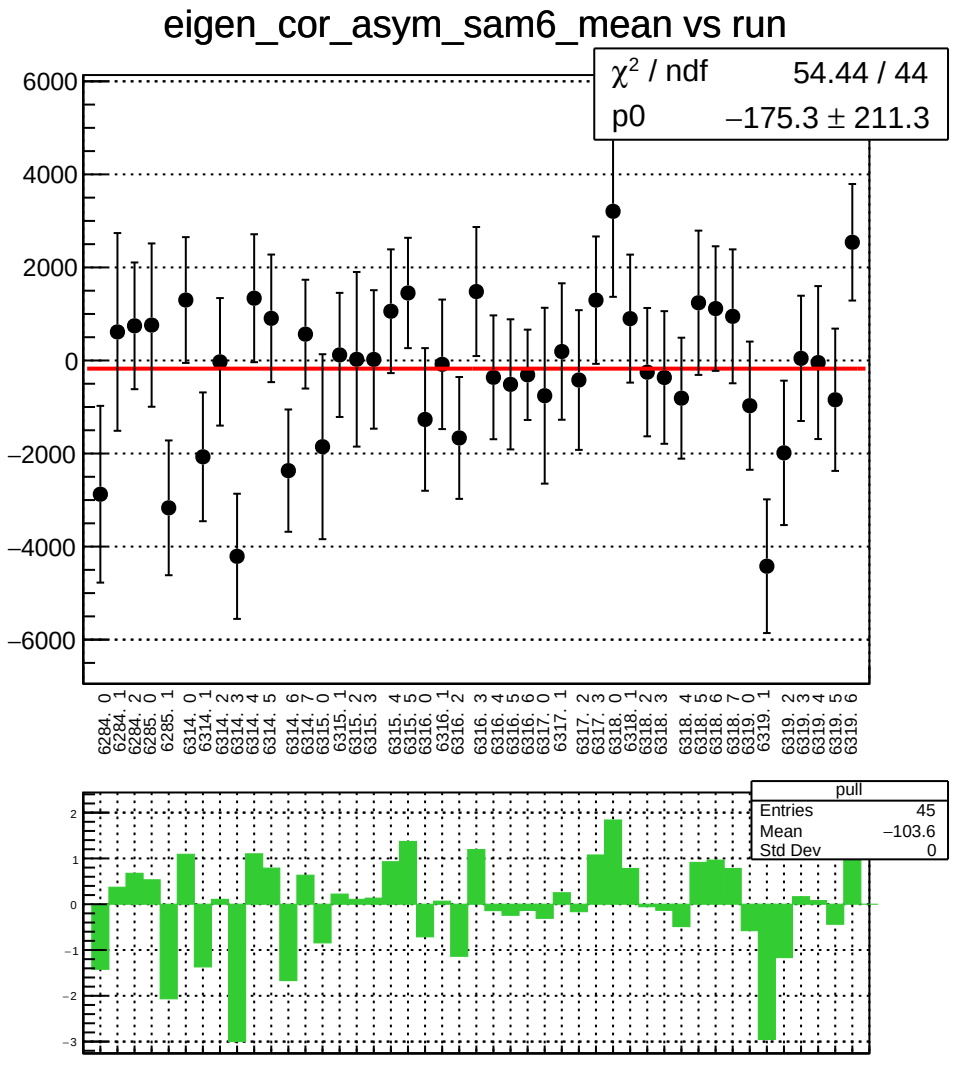
6319. 5
6319. 6


eigen_cor_asym_sam6_mean vs run
χ² / ndf 54.44 / 44
p0 −175.3 ± 211.3
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
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6315. 4
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6316. 2
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6316. 6
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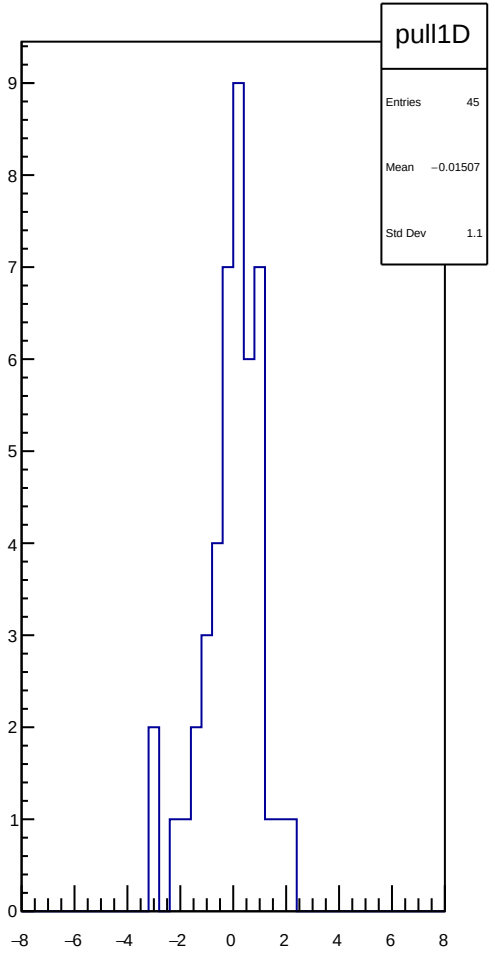
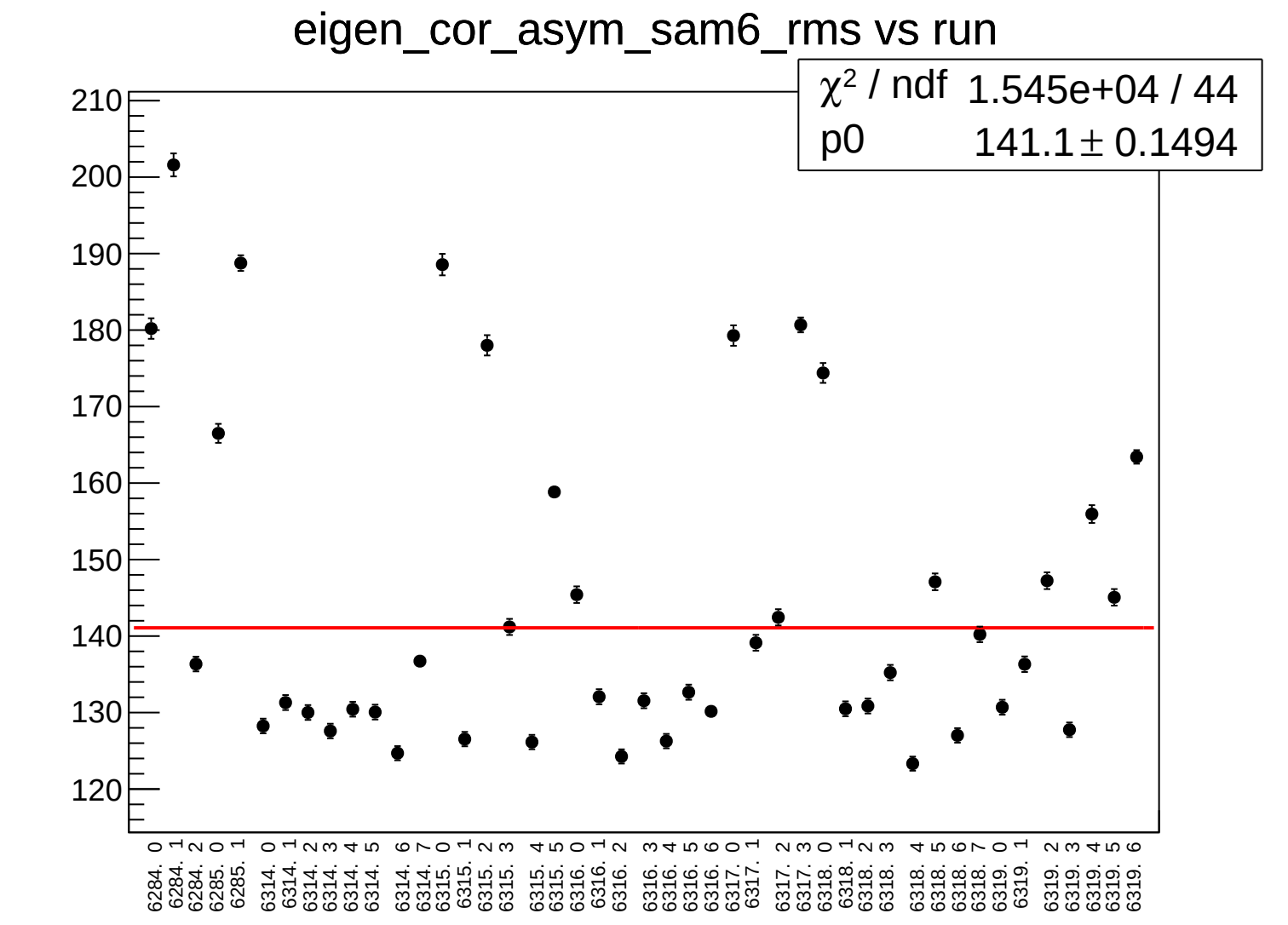
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01507
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.545e+04 / 44
p0 141.1 ± 0.1494
210
200
190
180
170
160
150
140
130
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
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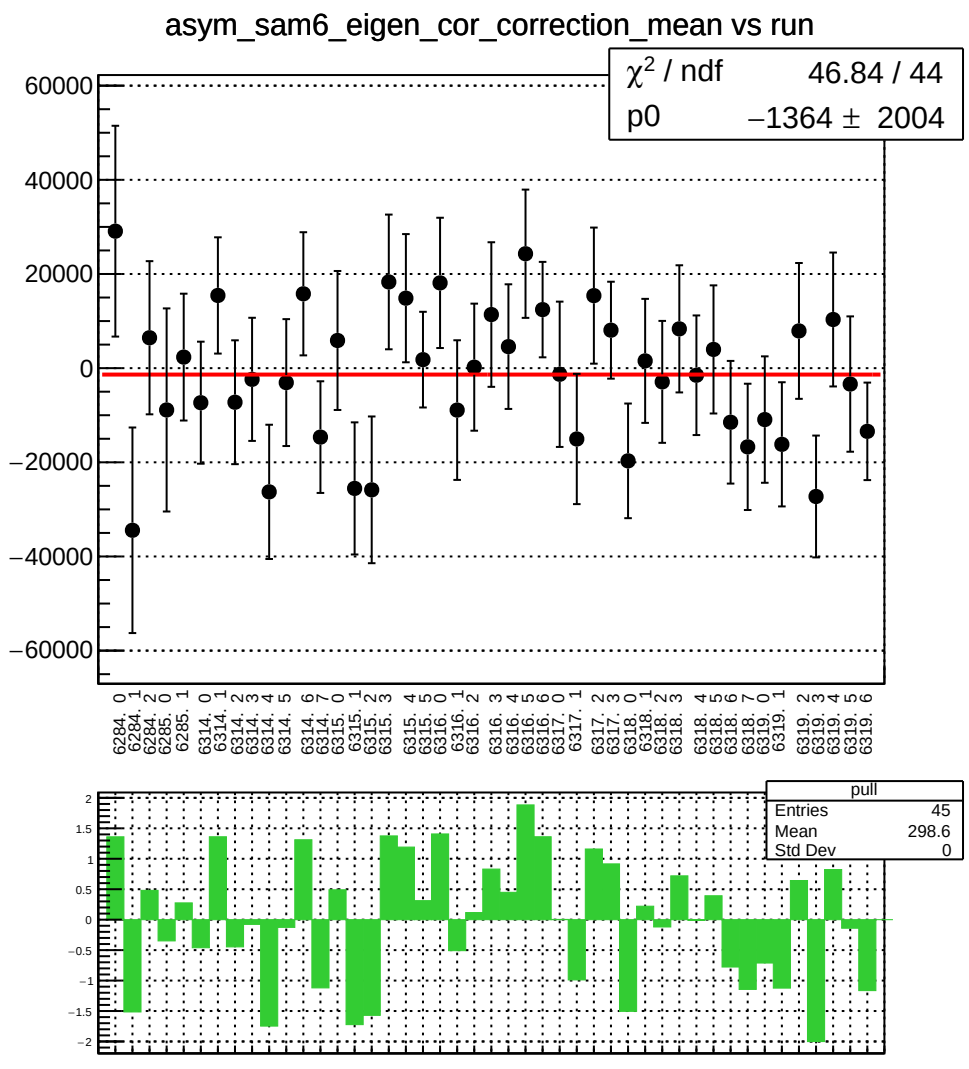
6319. 6


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 46.84 / 44
p0 −1364 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 7
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6316. 2
6316. 3
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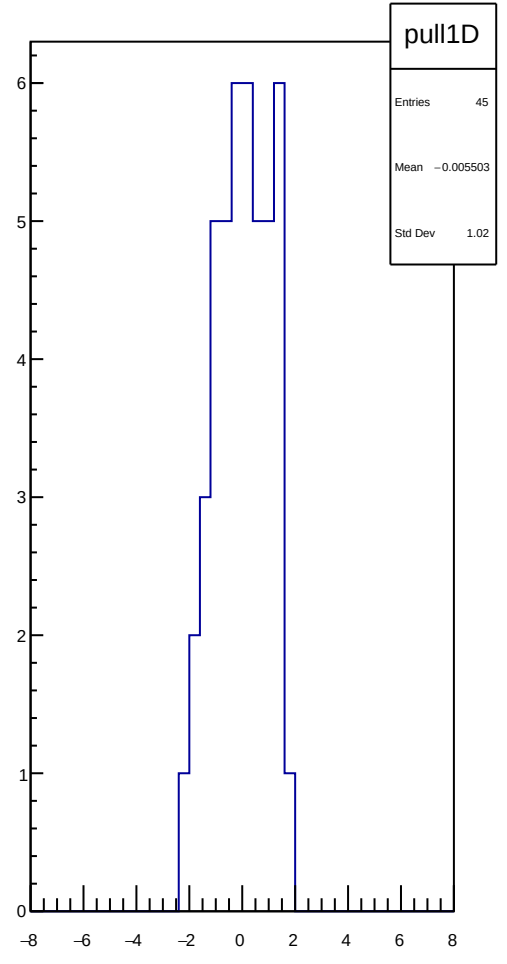
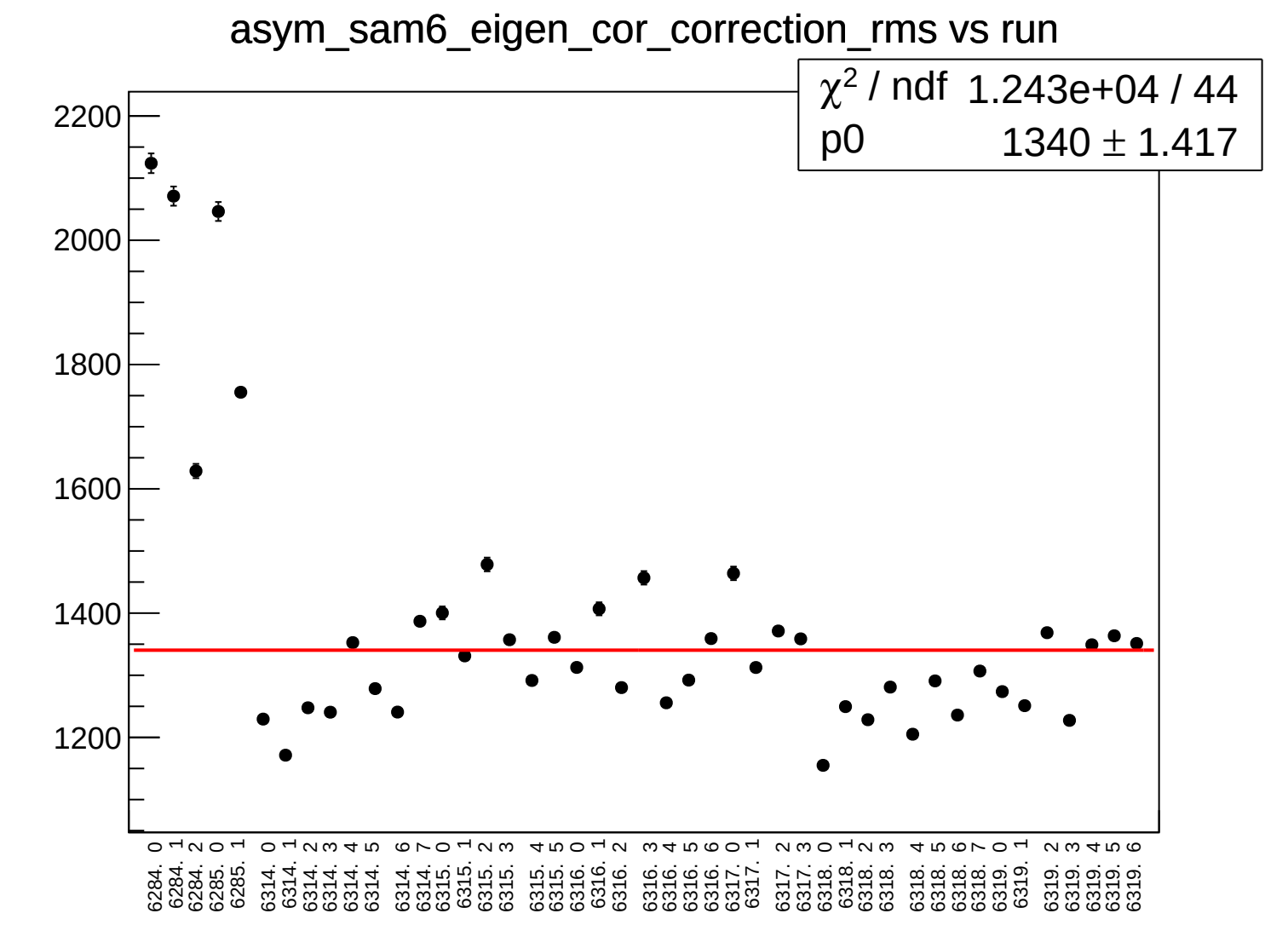
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 298.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.005503
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.243e+04 / 44
p0 1340 ± 1.417
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 5
6316. 0
6316. 1
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6316. 4
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6318. 7
6319. 0
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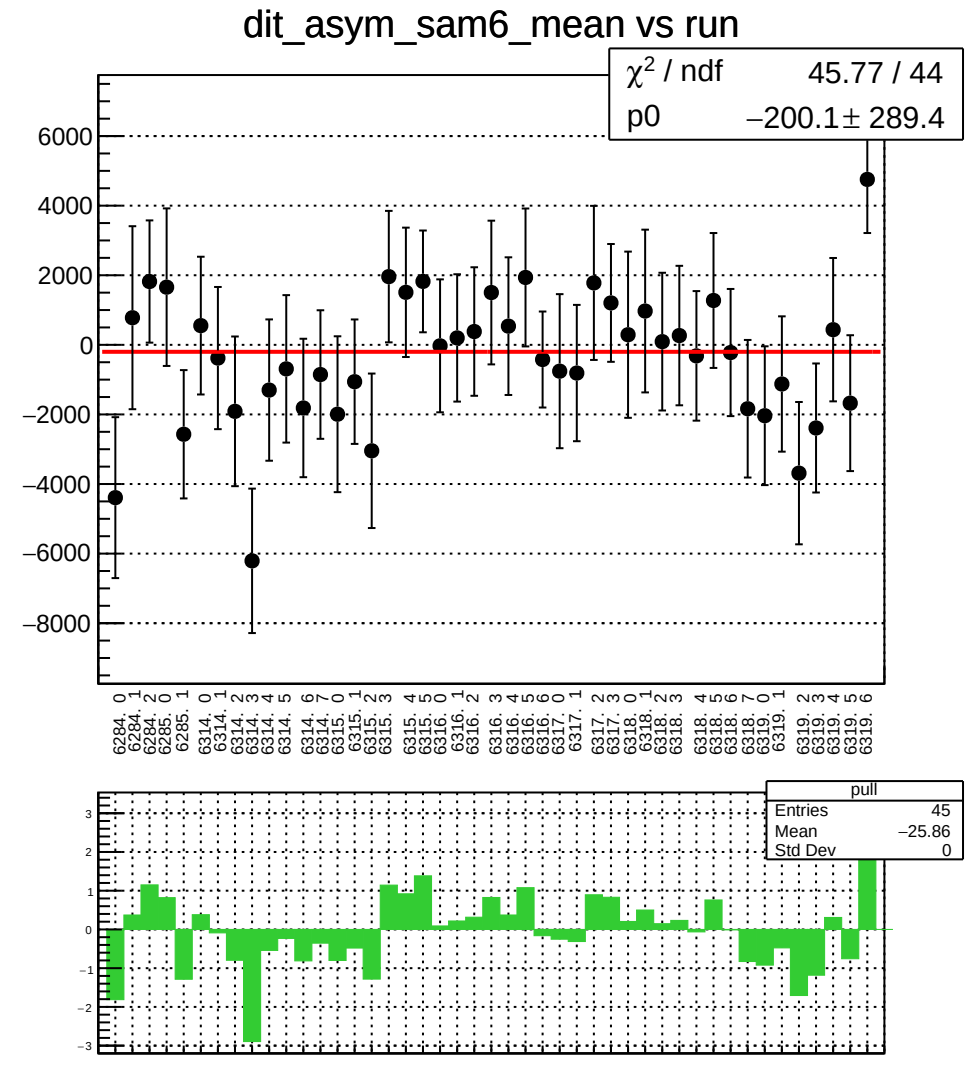
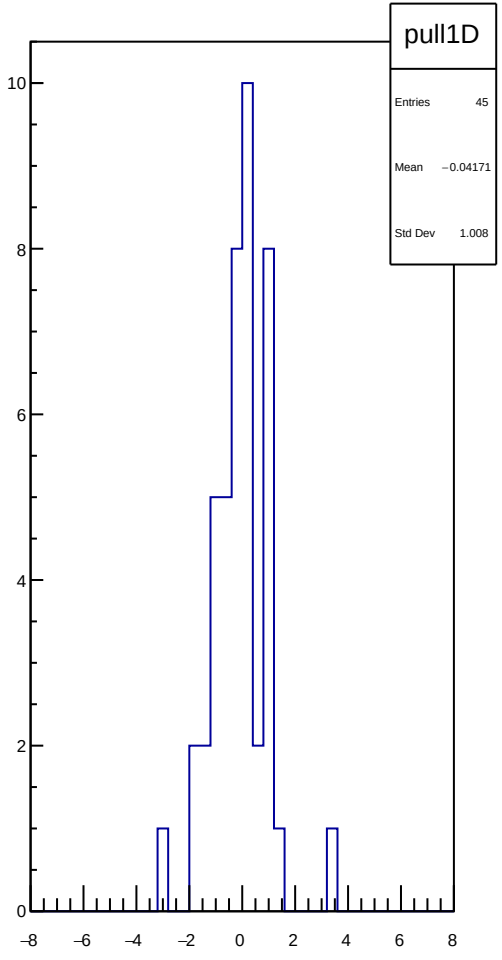
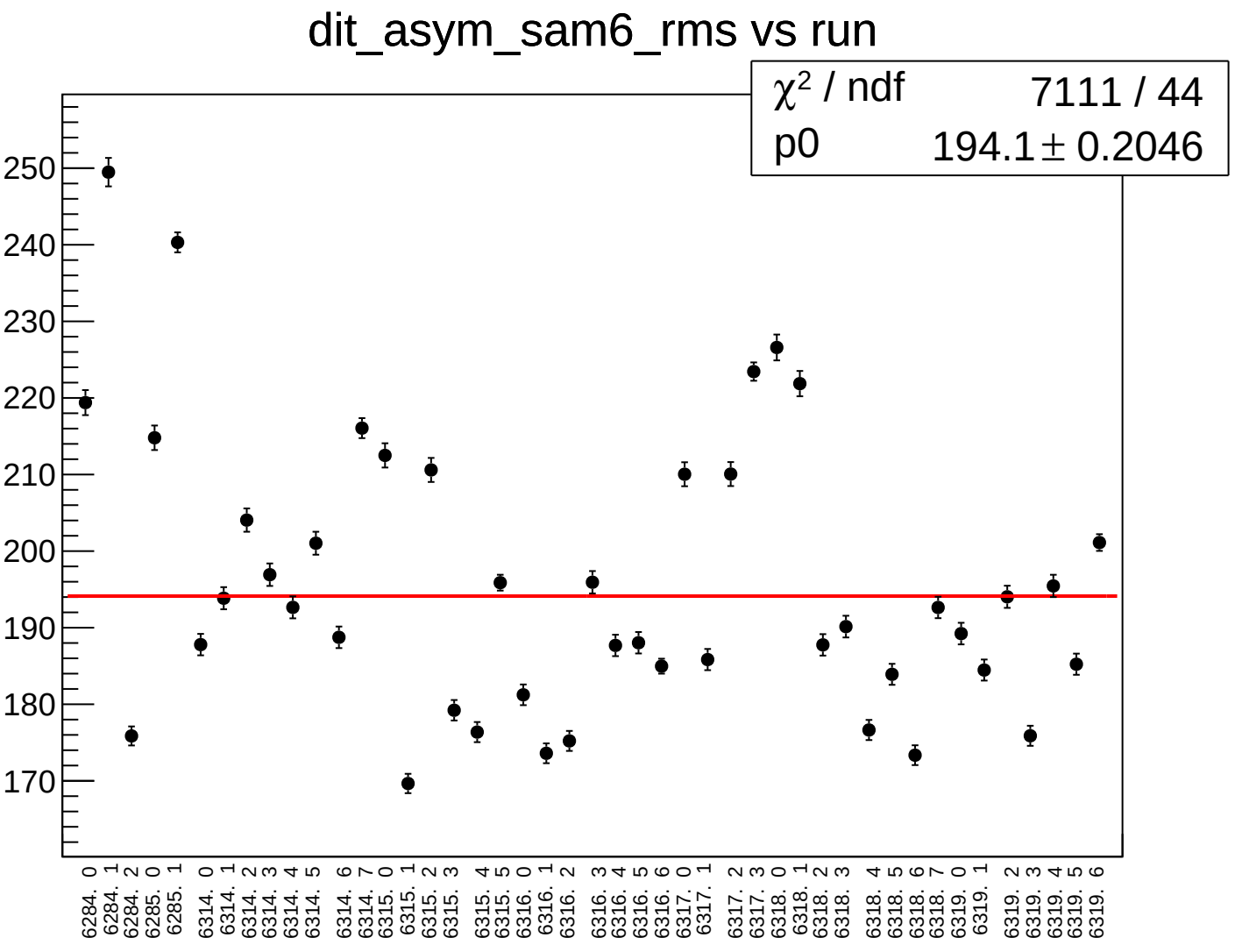
6319. 5
6319. 6


dit_asym_sam6_mean vs run
χ² / ndf 45.77 / 44
p0 −200.1± 289.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.86
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.04171
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 7111 / 44
p0 194.1 ± 0.2046
250
240
230
220
210
200
190
180
170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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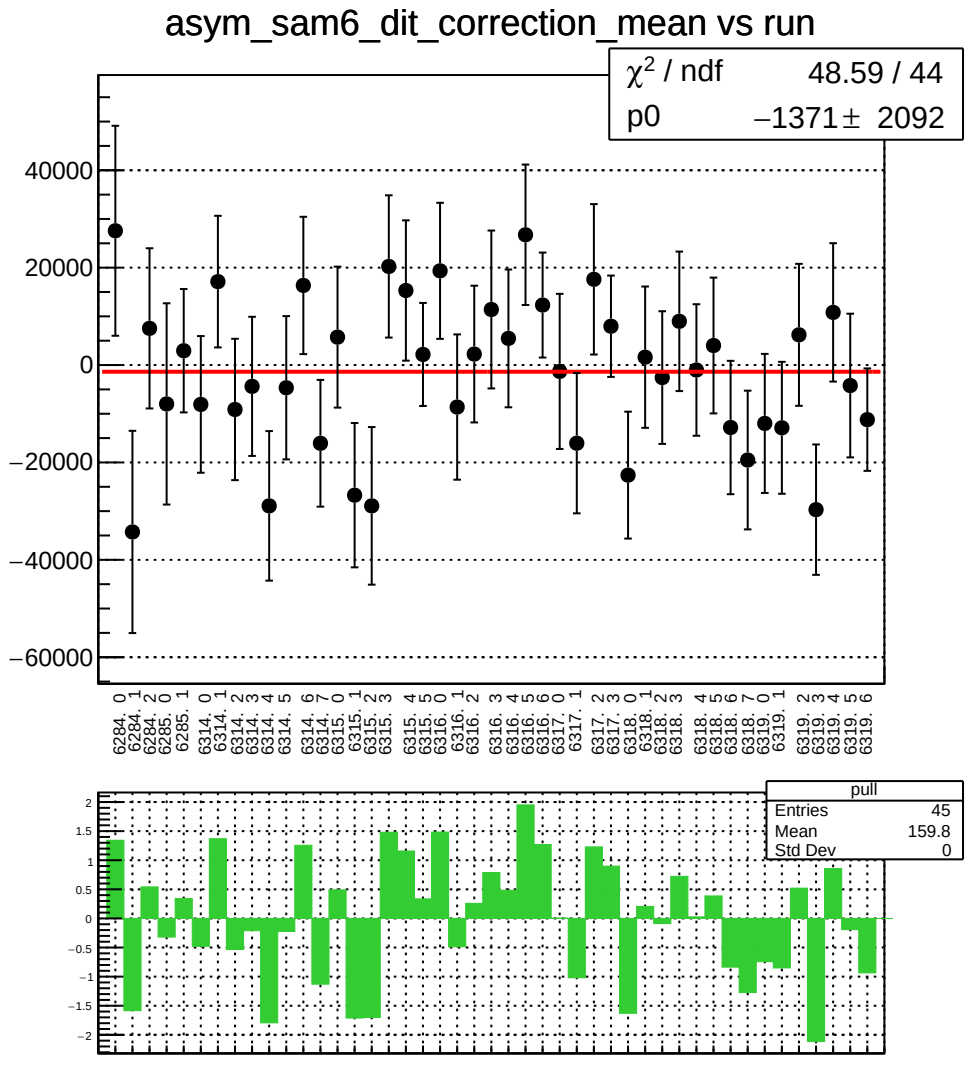
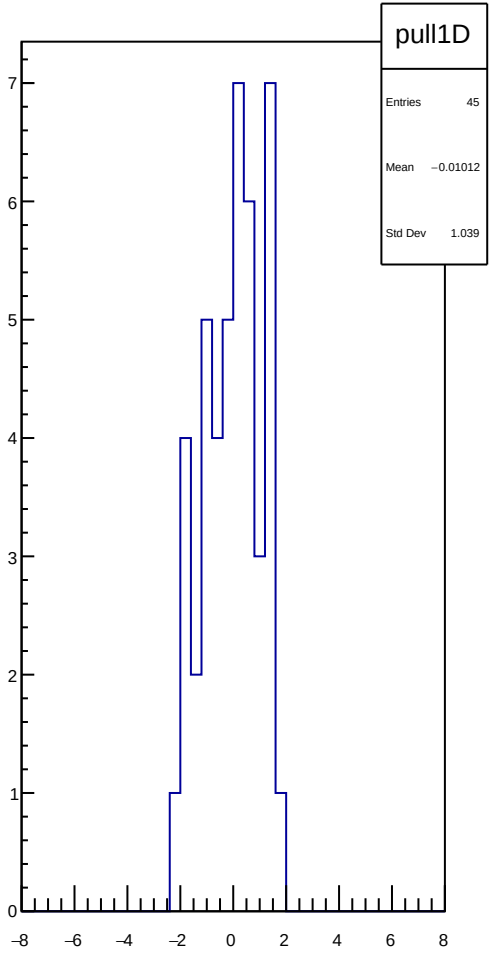
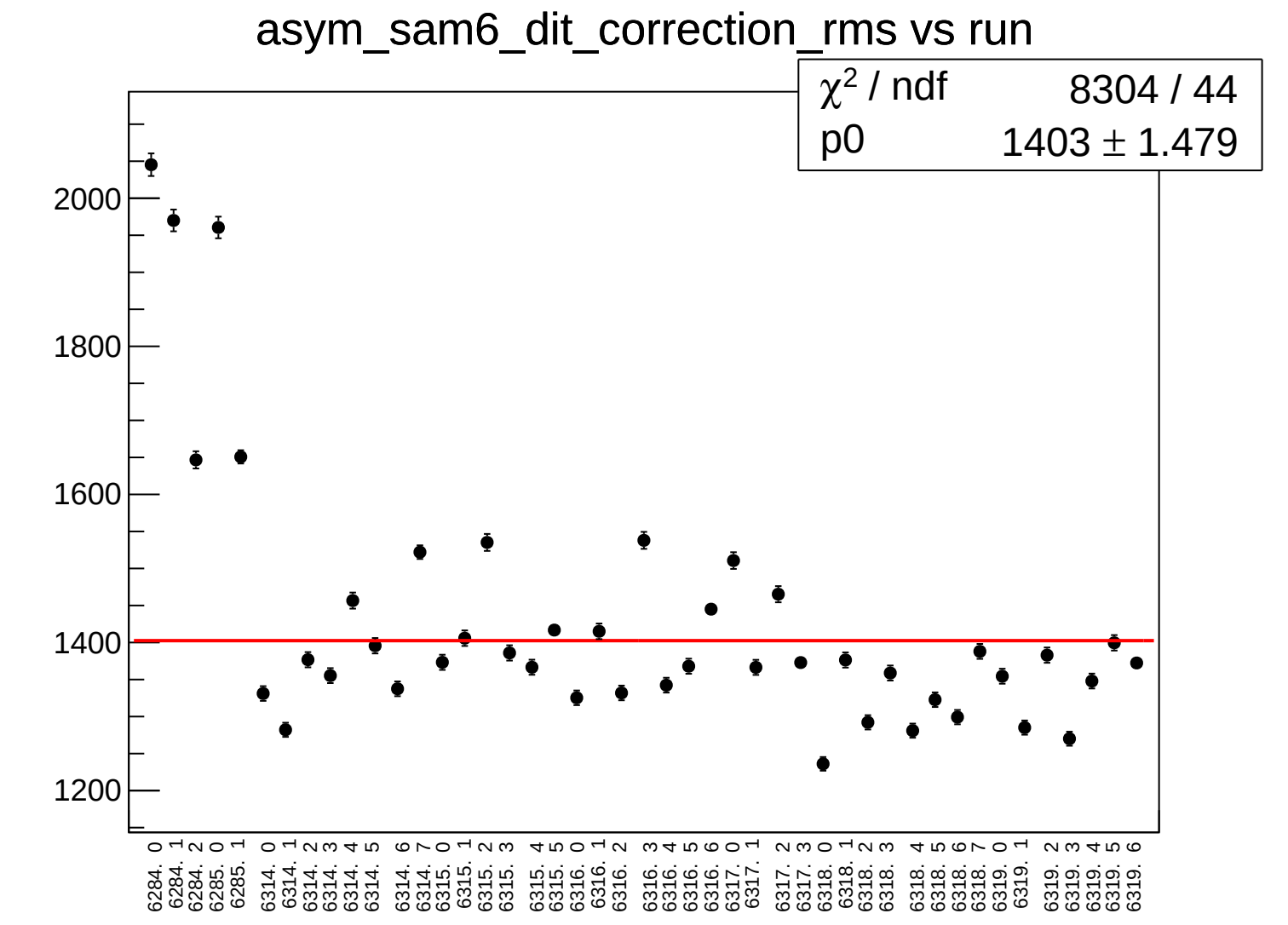
6319. 5
6319. 6


asym_sam6_dit_correction_mean vs run
χ² / ndf 48.59 / 44
p0 −1371 ± 2092
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 159.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01012
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ² / ndf 8304 / 44
p0 1403 ± 1.479
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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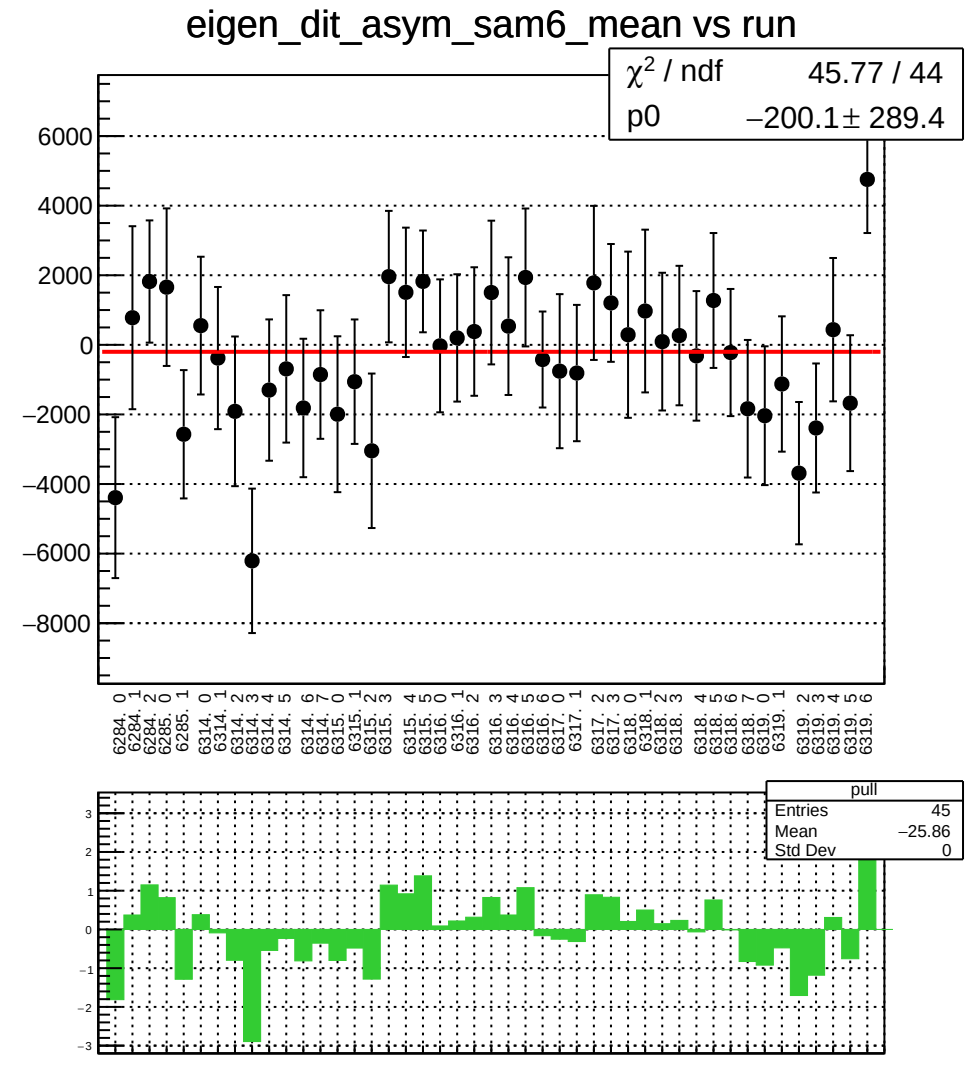
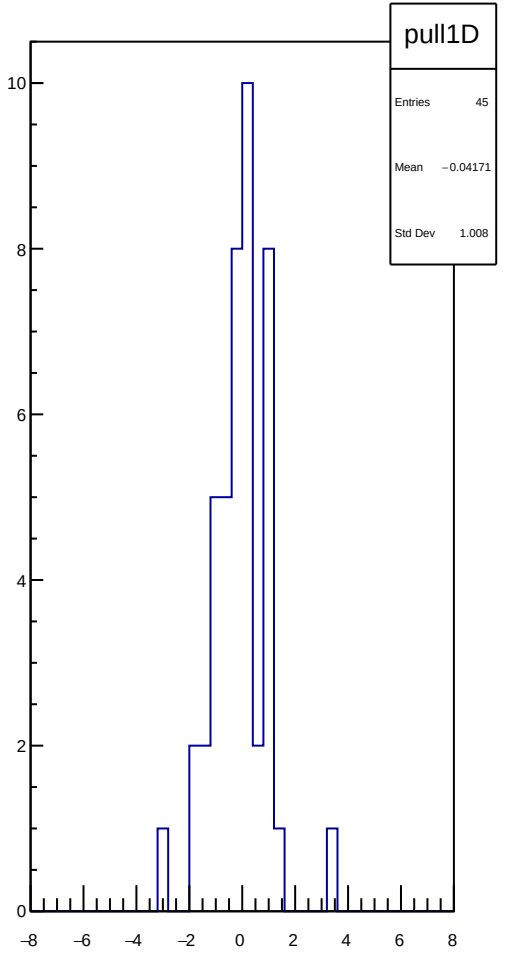
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam6_mean vs run
χ² / ndf 45.77 / 44
p0 −200.1± 289.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.86
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.04171
Std Dev 1.008
10
8
6
4
2
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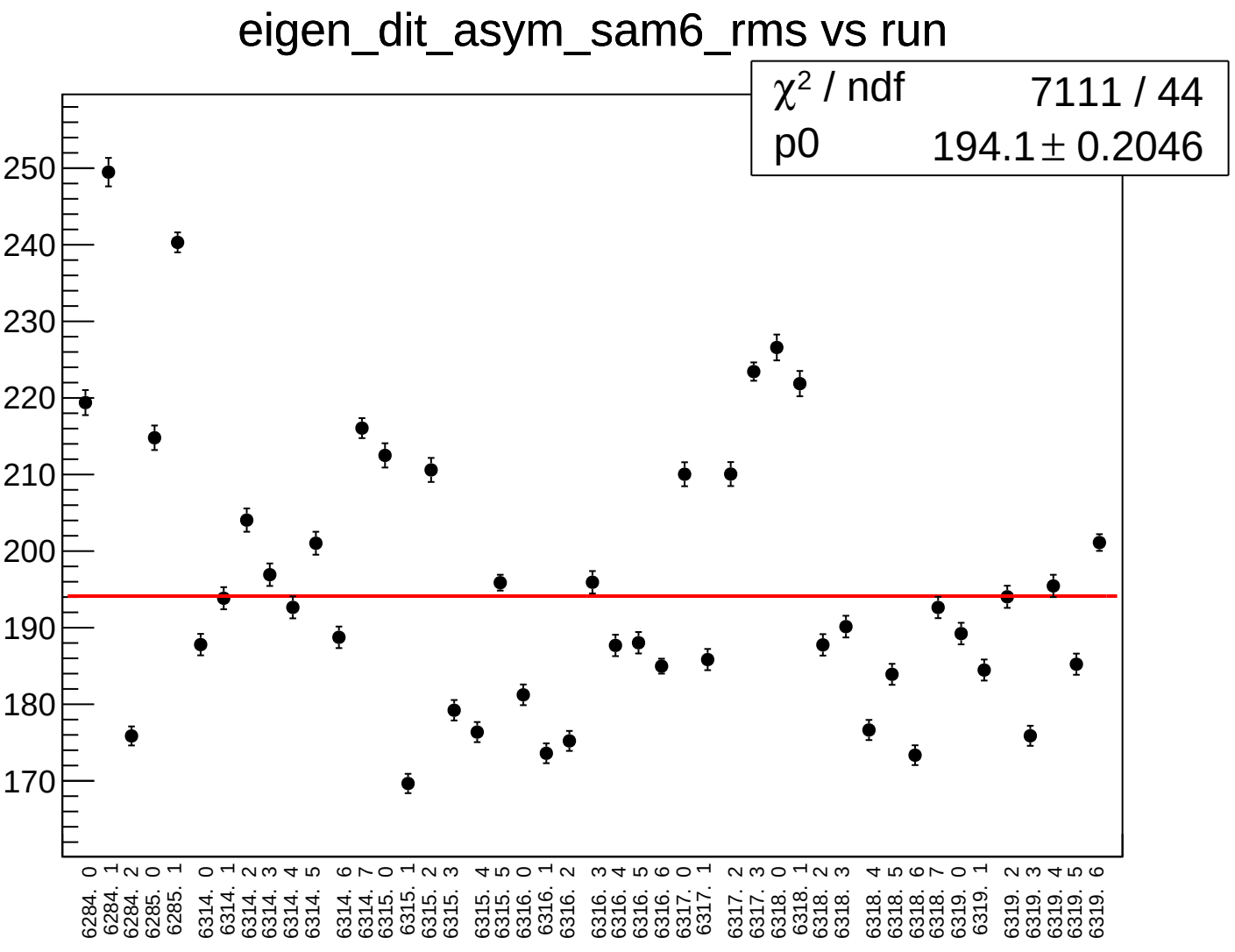
−4
−2
0
2
4
6
8


eigen_dit_asym_sam6_rms vs run
χ² / ndf 7111 / 44
p0 194.1 ± 0.2046
250
240
230
220
210
200
190
180
170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
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6318. 3
6318. 4
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6318. 7
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6319. 5
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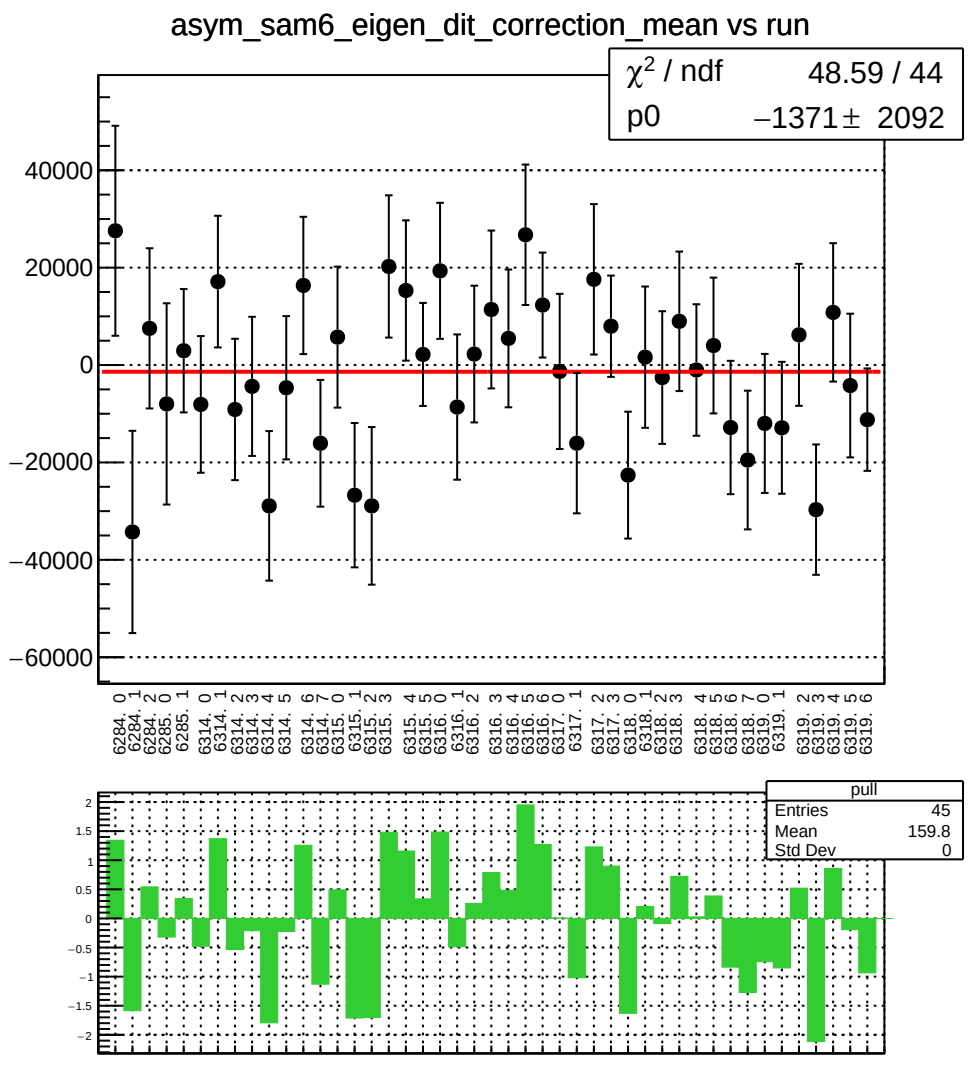
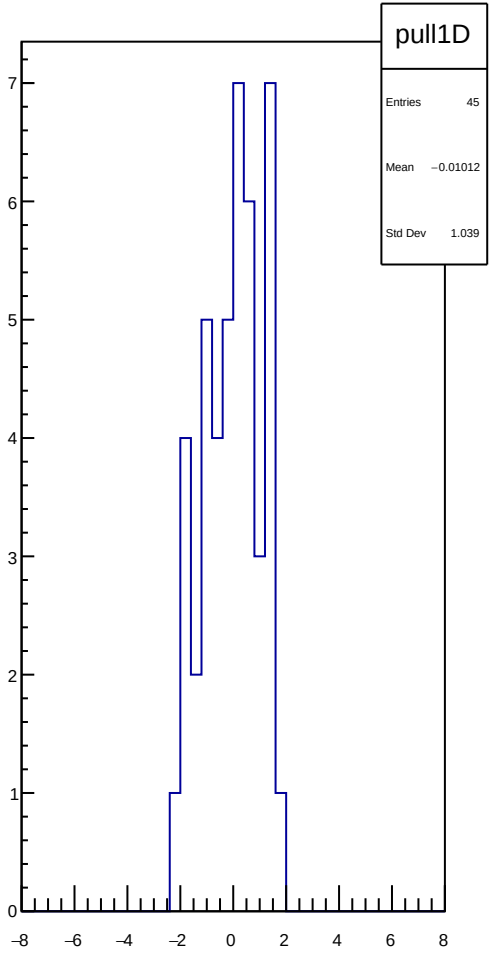
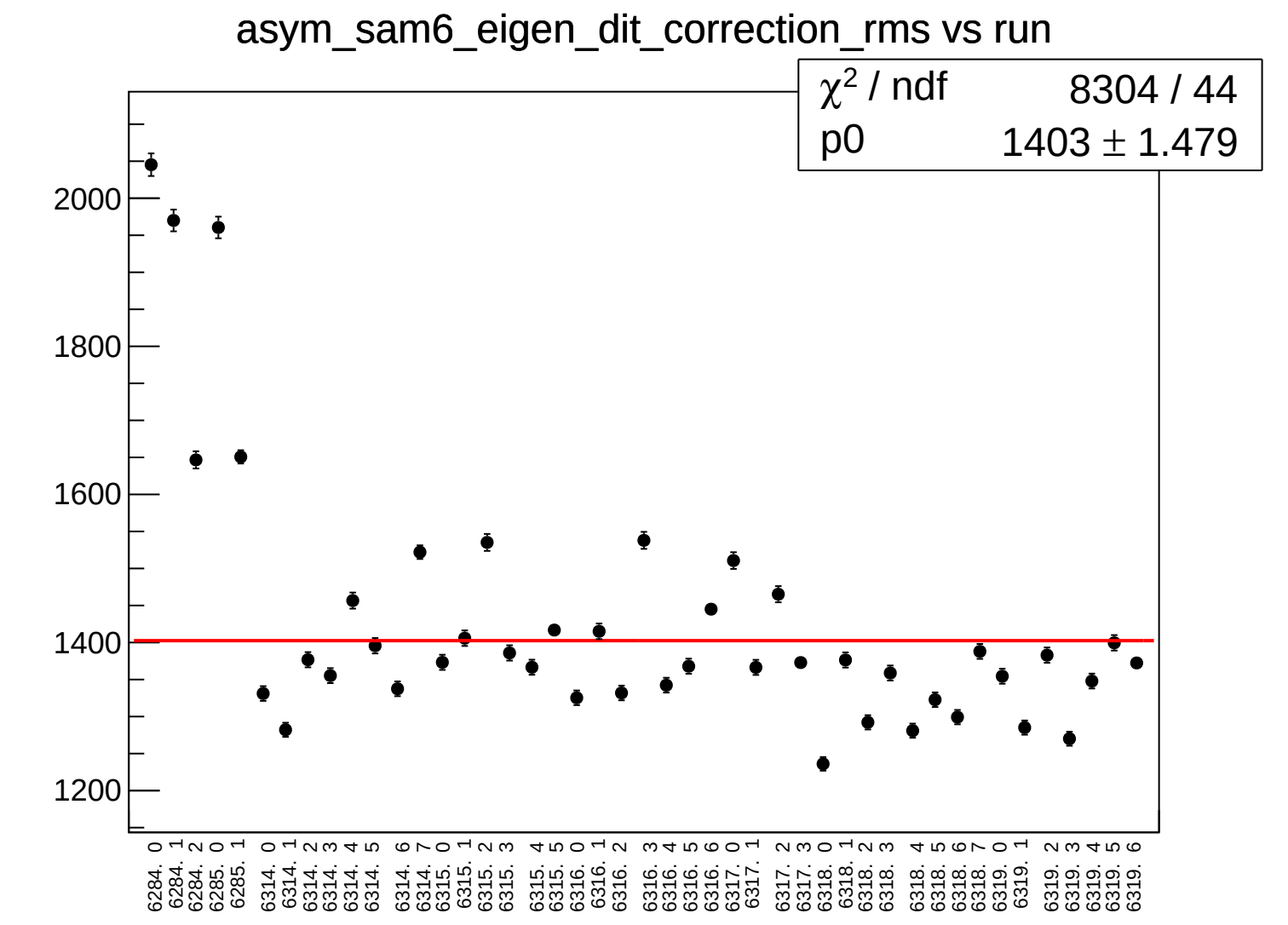

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 48.59 / 44
p0 −1371 ± 2092
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 159.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01012
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 8304 / 44
p0 1403 ± 1.479
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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6319. 2
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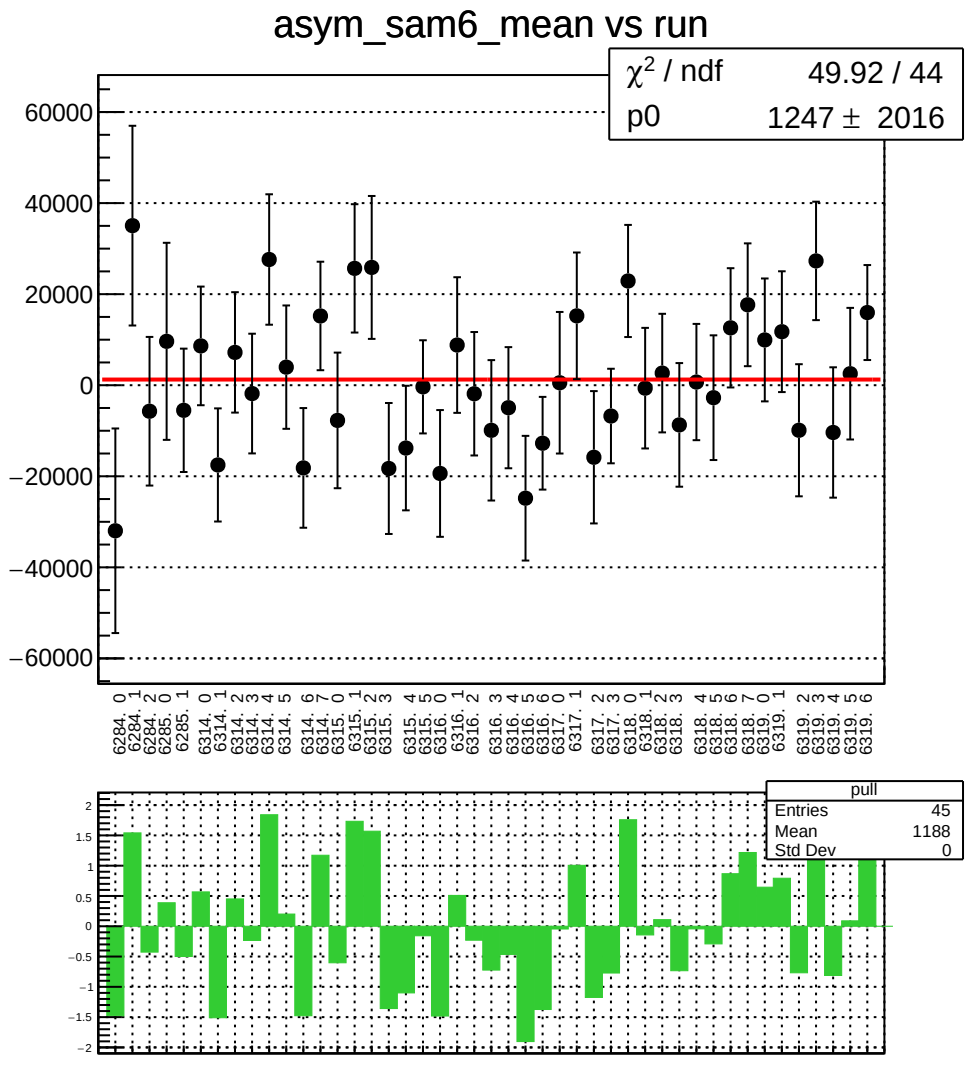
6319. 5
6319. 6


asym_sam6_mean vs run
χ² / ndf 49.92 / 44
p0 1247 ± 2016
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 5
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6316. 5
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6318. 2
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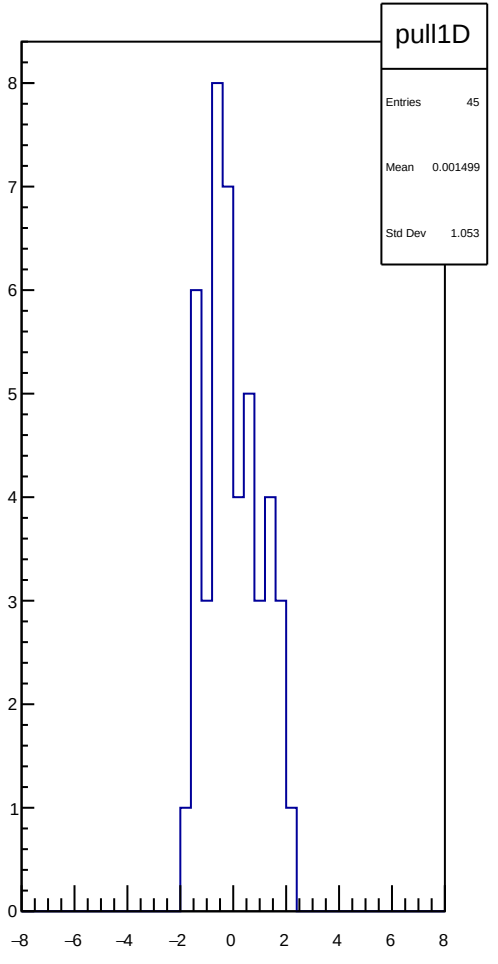
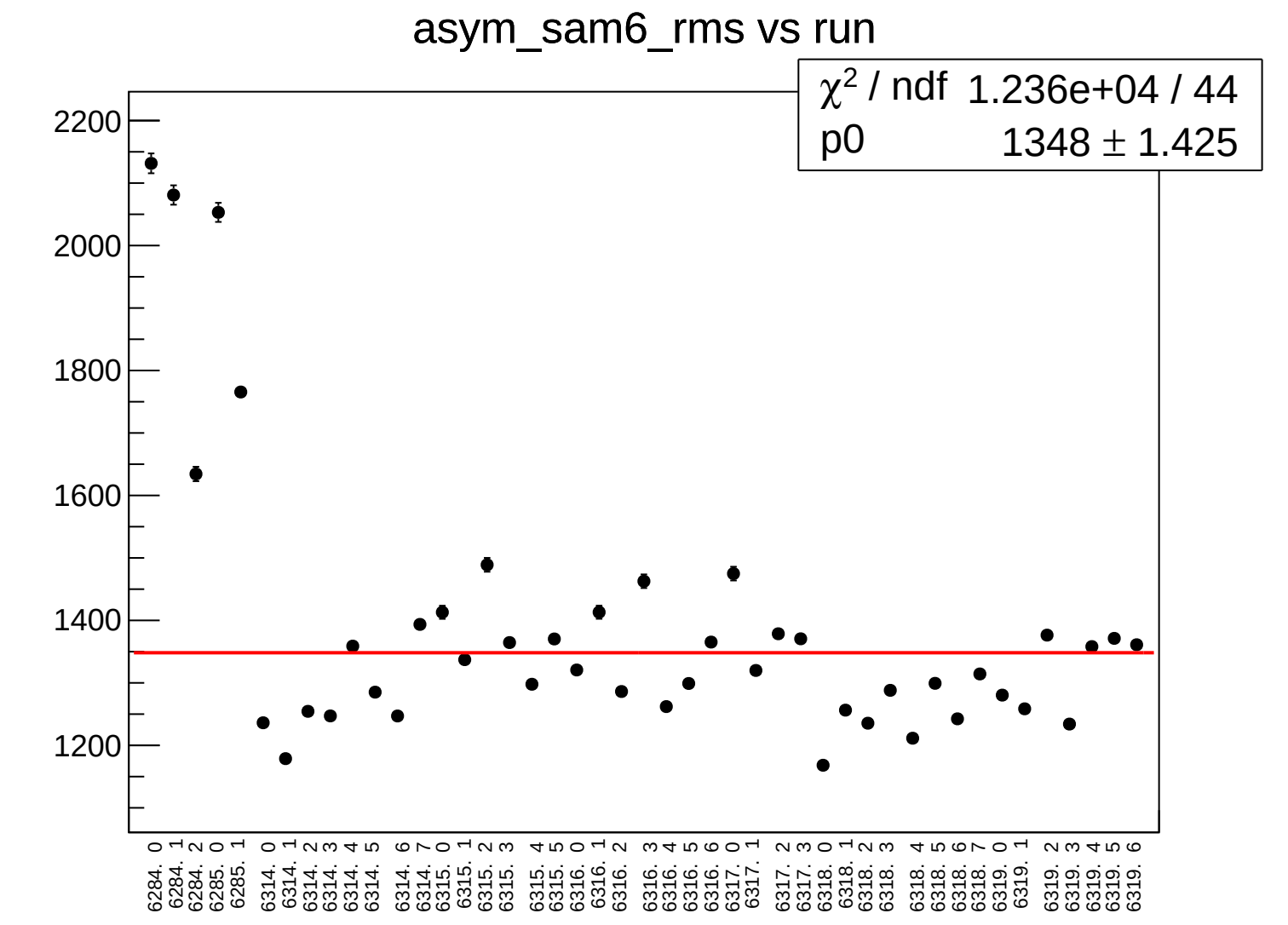
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1188
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001499
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_rms vs run
χ² / ndf 1.236e+04 / 44
p0 1348 ± 1.425
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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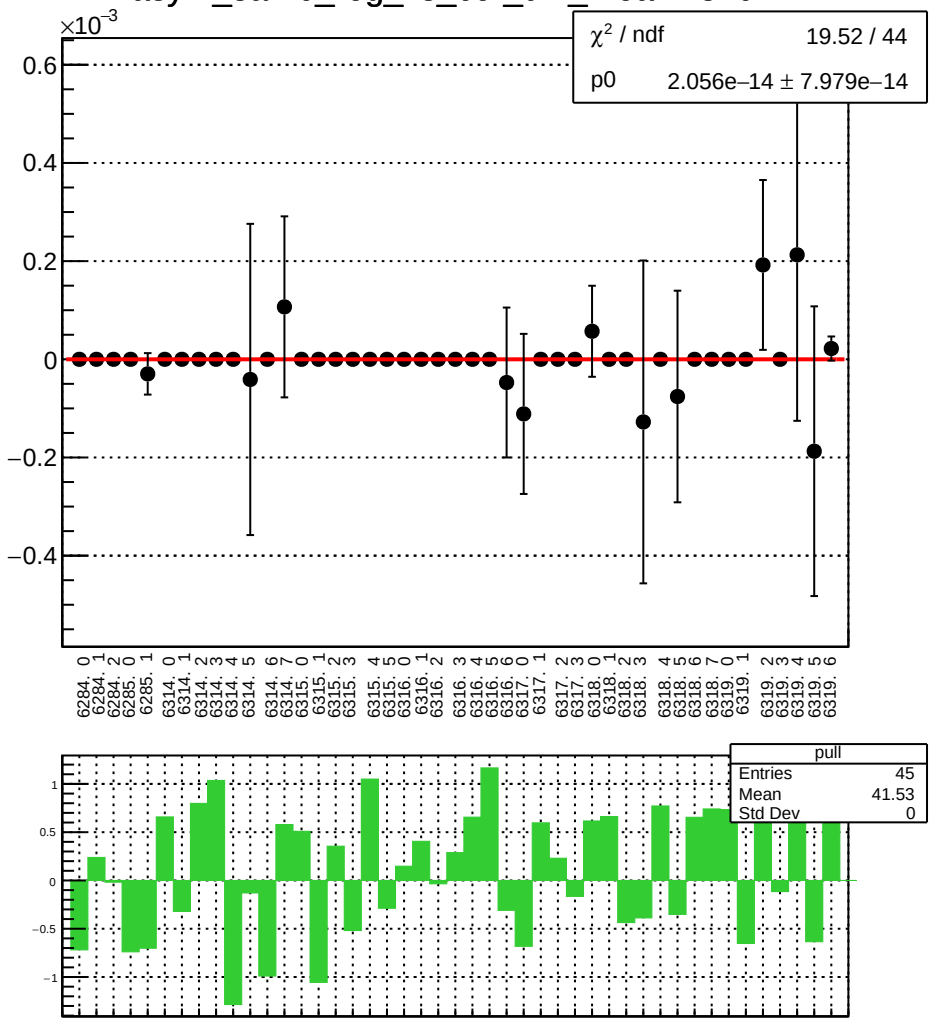
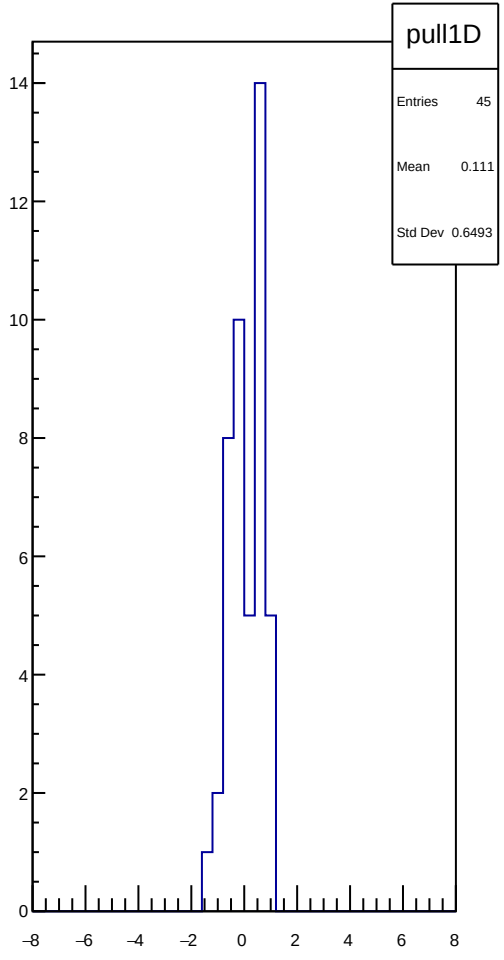
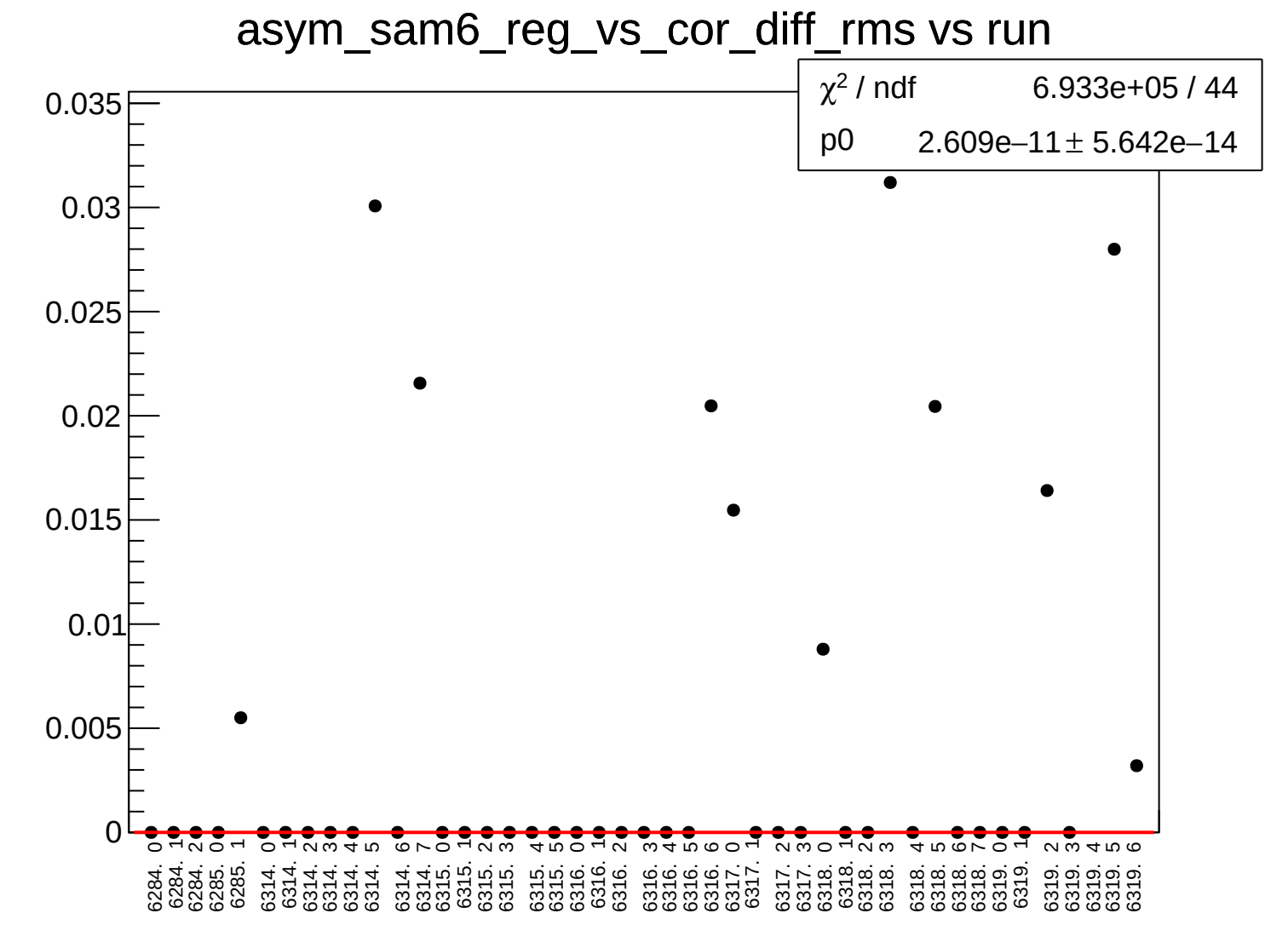
6319. 5
6319. 6


asym_sam6_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 19.52 / 44
p0 2.056e−14 ± 7.979e−14
pull
Entries 45
Mean 41.53
Std Dev 0


pull1D
Entries 45
Mean 0.111
Std Dev 0.6493


asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 6.933e+05 / 44
p0 2.609e−11 ± 5.642e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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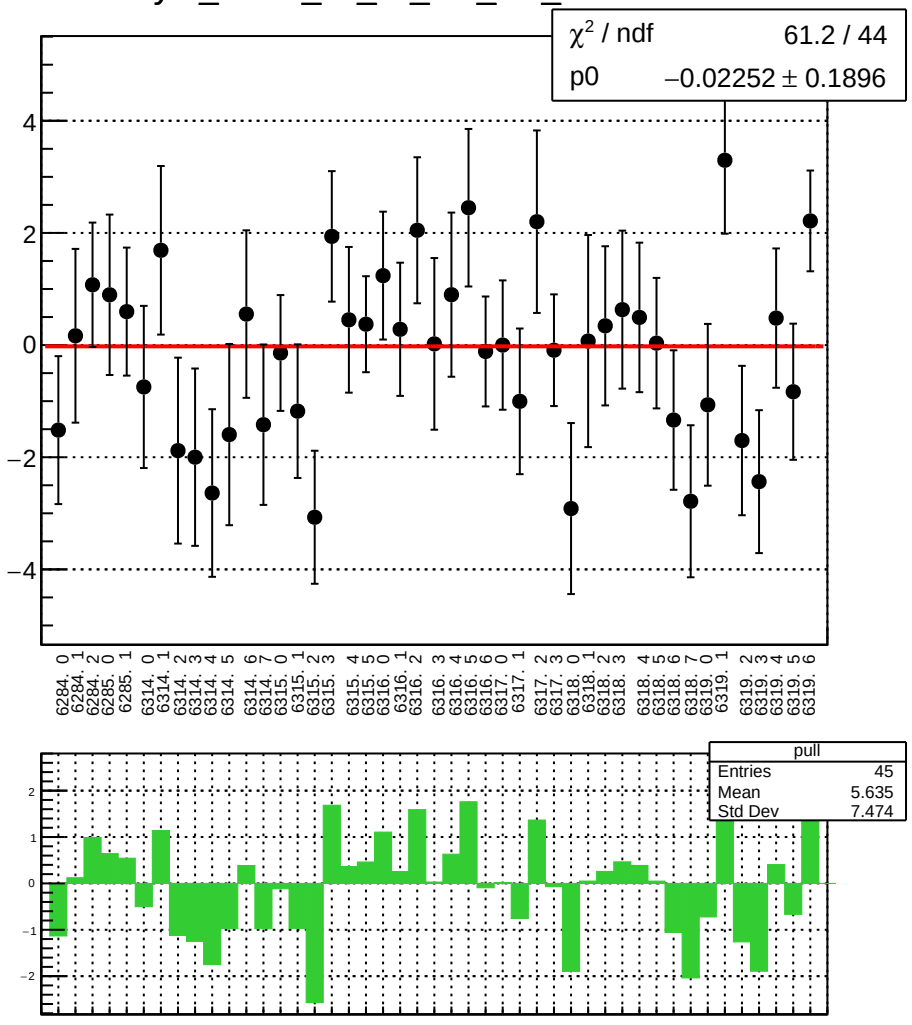
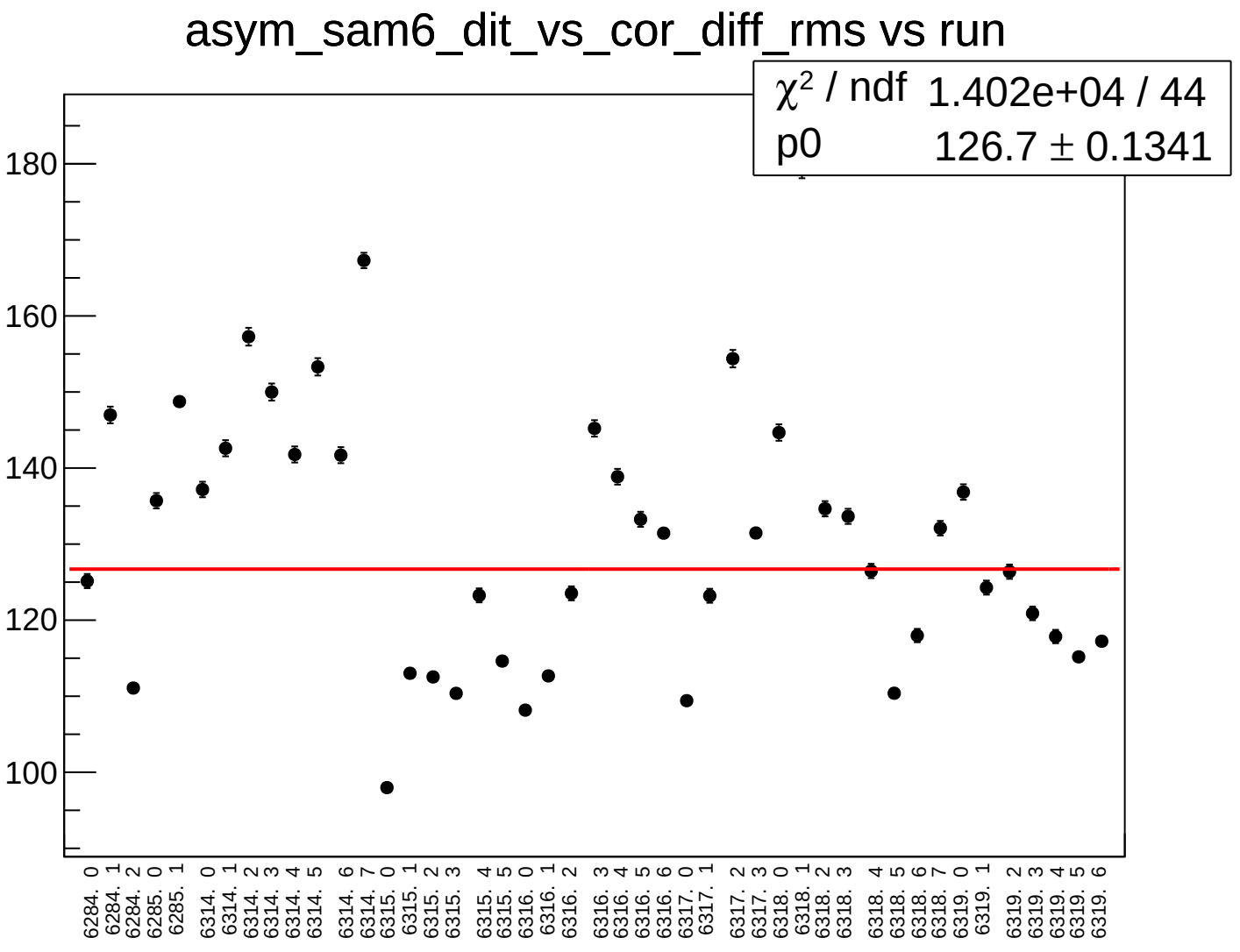
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 61.2 / 44
p0 −0.02252 ± 0.1896
pull
Entries 45
Mean 5.635
Std Dev 7.474
pull1D
Entries 45
Mean −0.0464
Std Dev 1.165


asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 44
p0 126.7 ± 0.1341
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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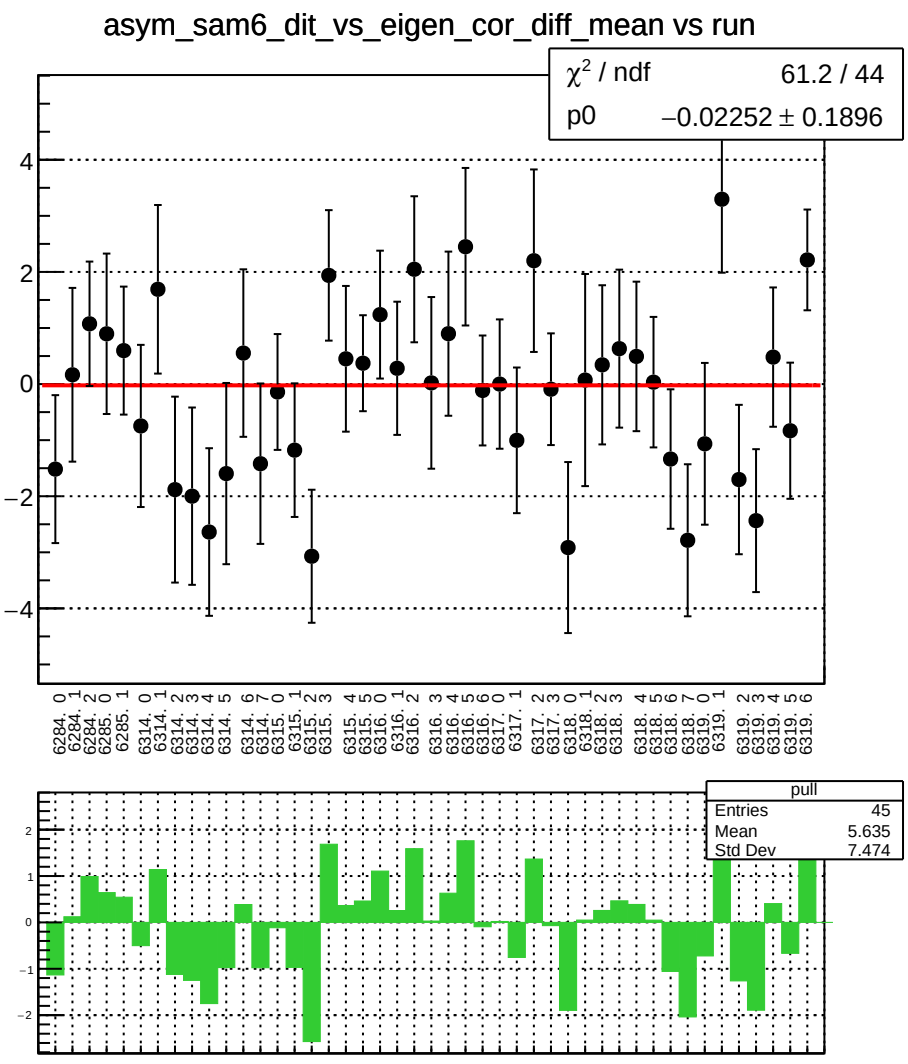
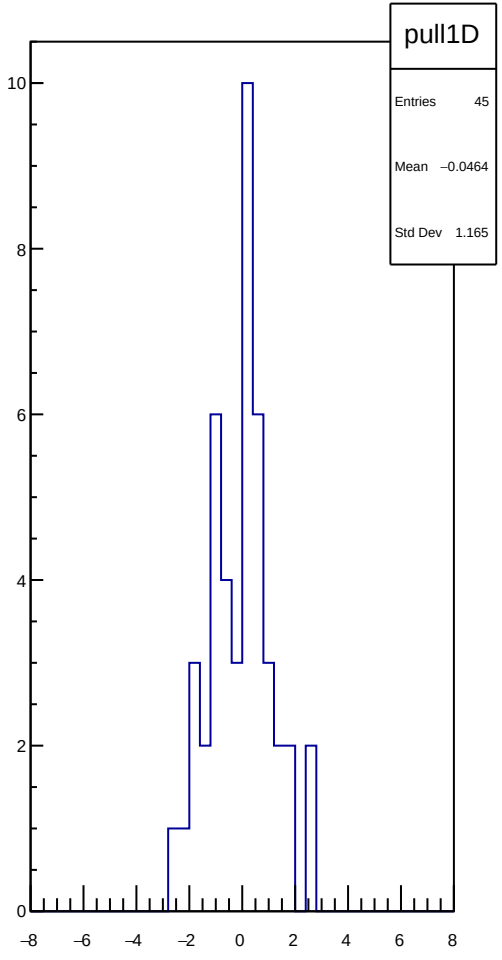
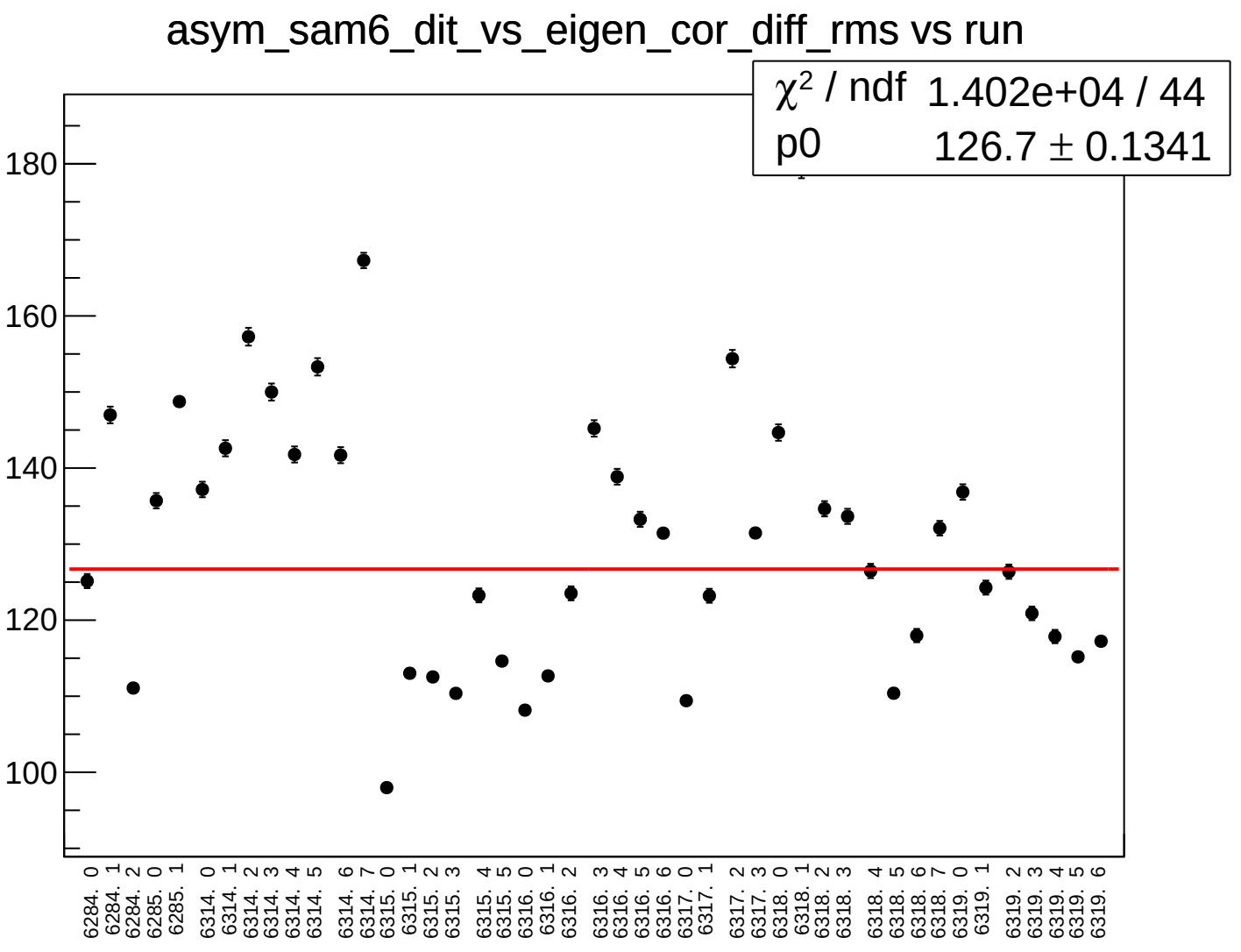
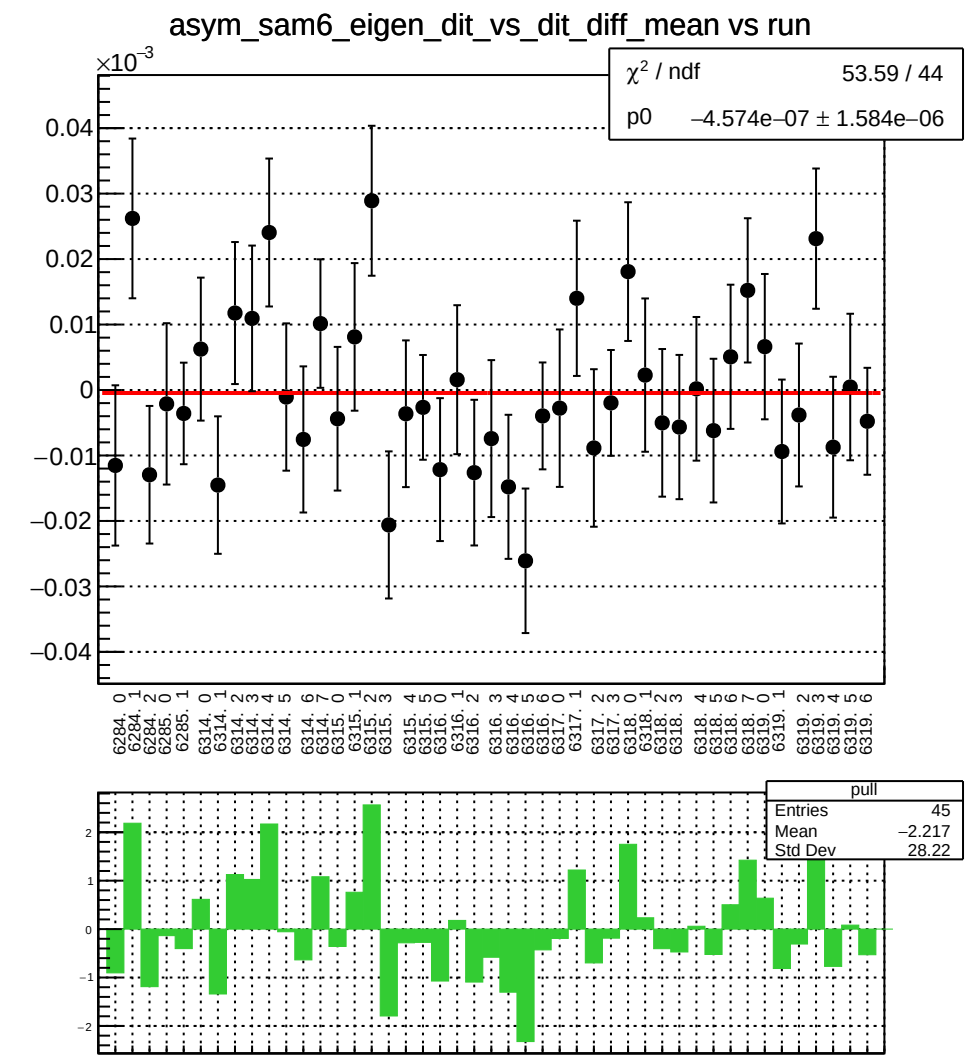
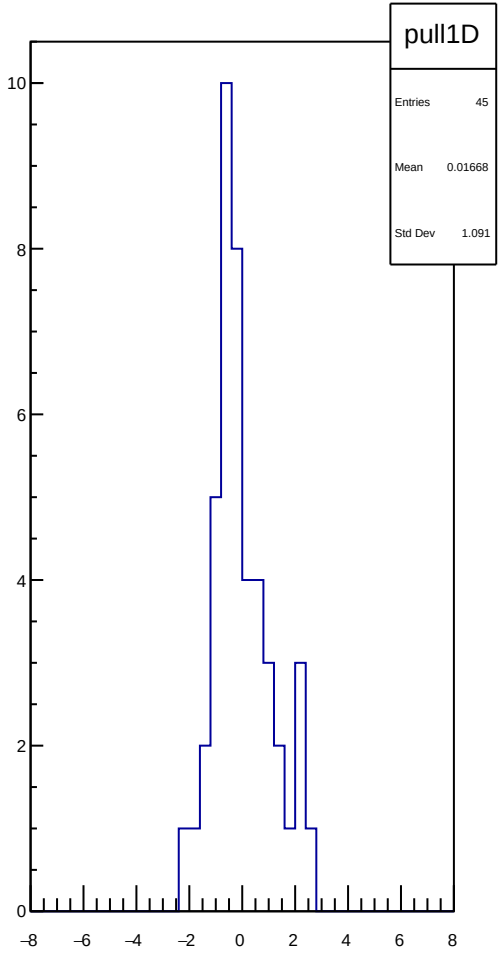
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

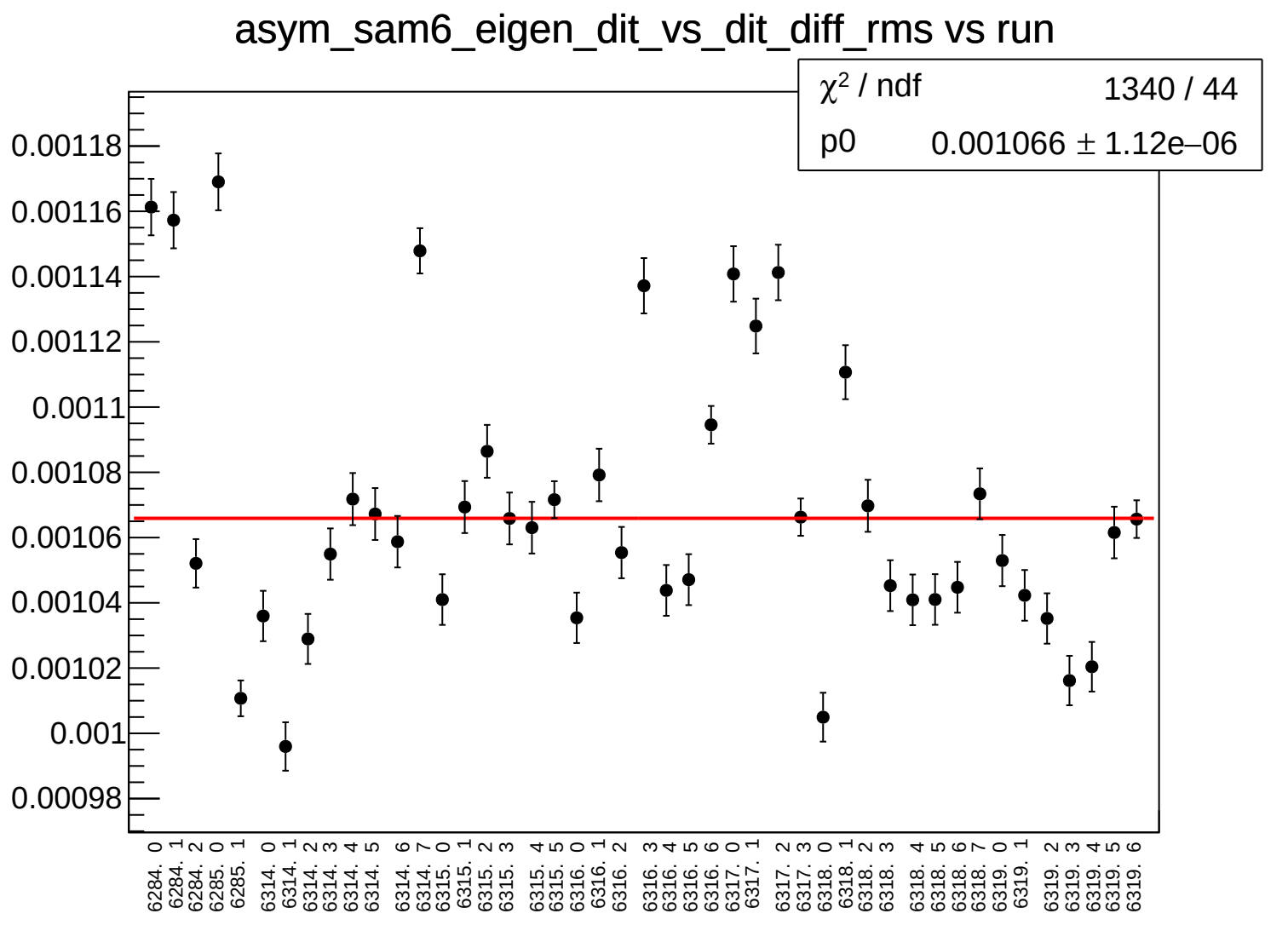

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.2 / 44
p0 −0.02252 ± 0.1896
pull
Entries 45
Mean 5.635
Std Dev 7.474

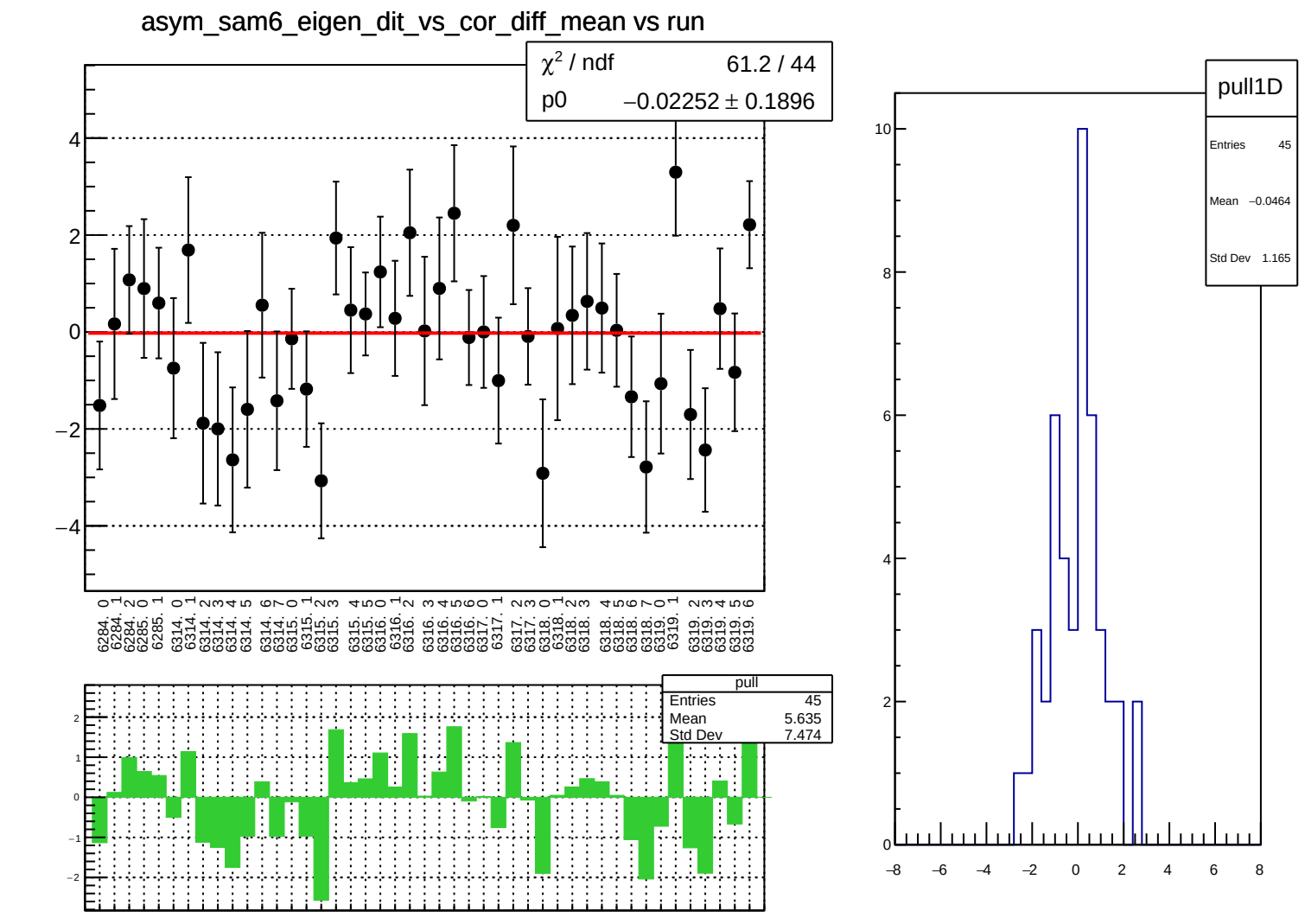

pull1D
Entries 45
Mean −0.0464
Std Dev 1.165

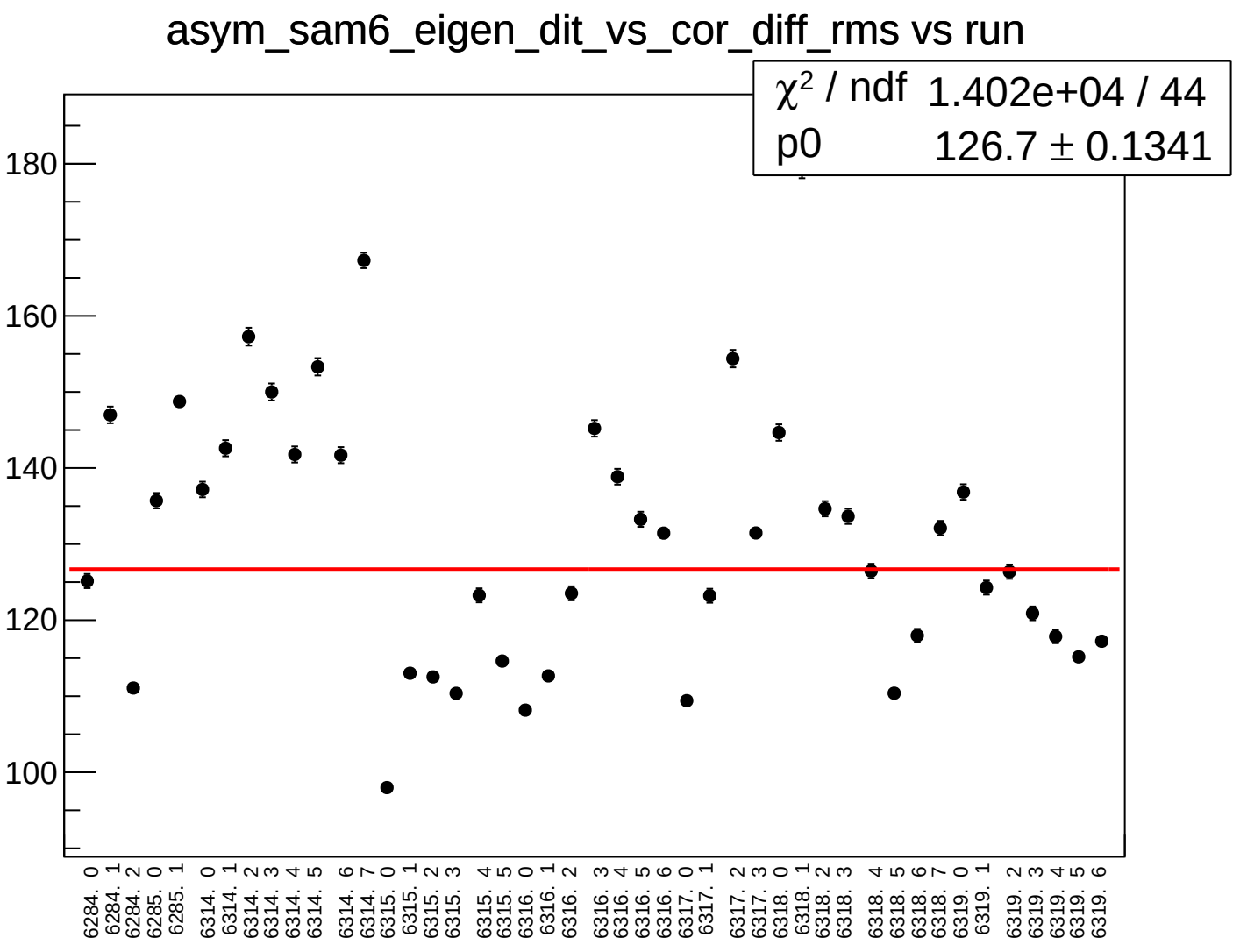

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 44
p0 126.7 ± 0.1341
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

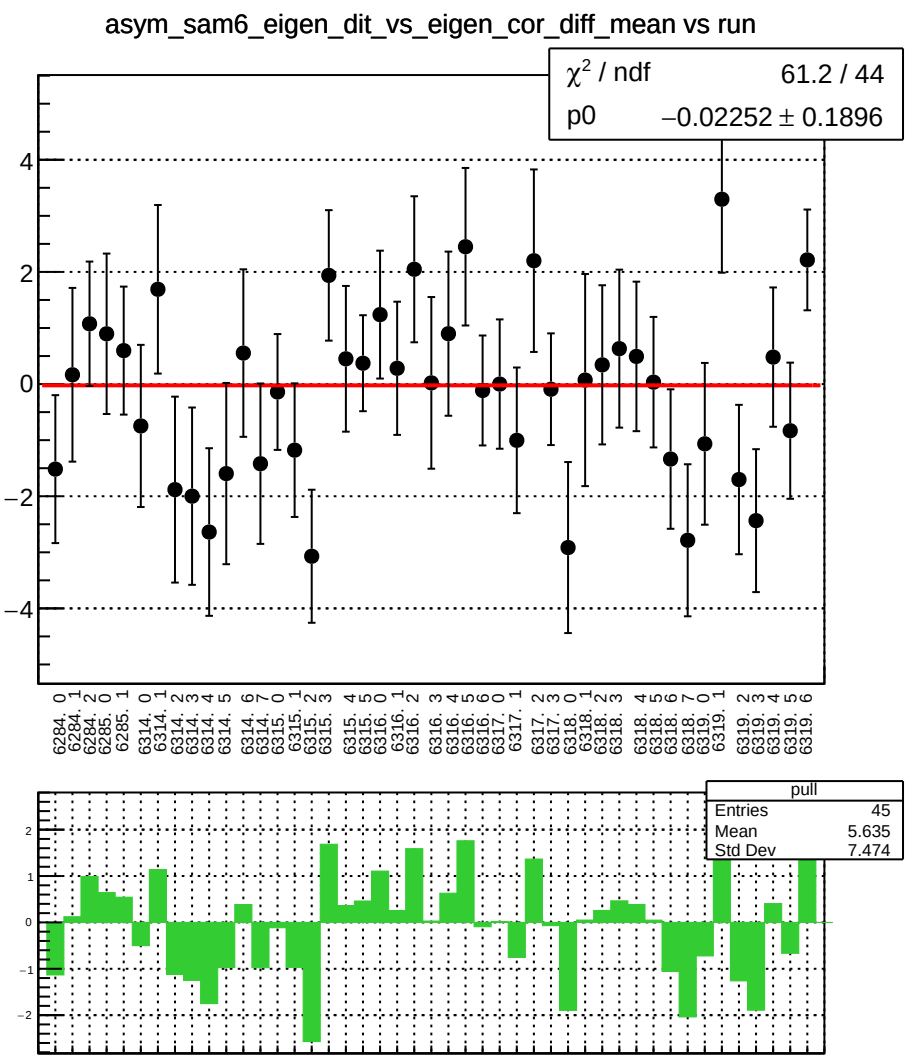

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.59 / 44
p0 −4.574e−07 ± 1.584e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2.217
Std Dev 28.22
2
1
0
−1
−2

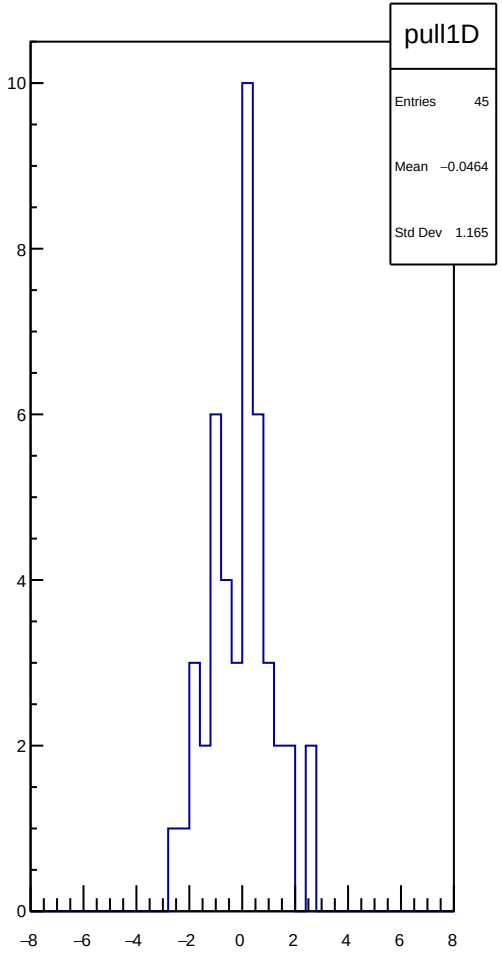

pull1D
Entries 45
Mean 0.01668
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

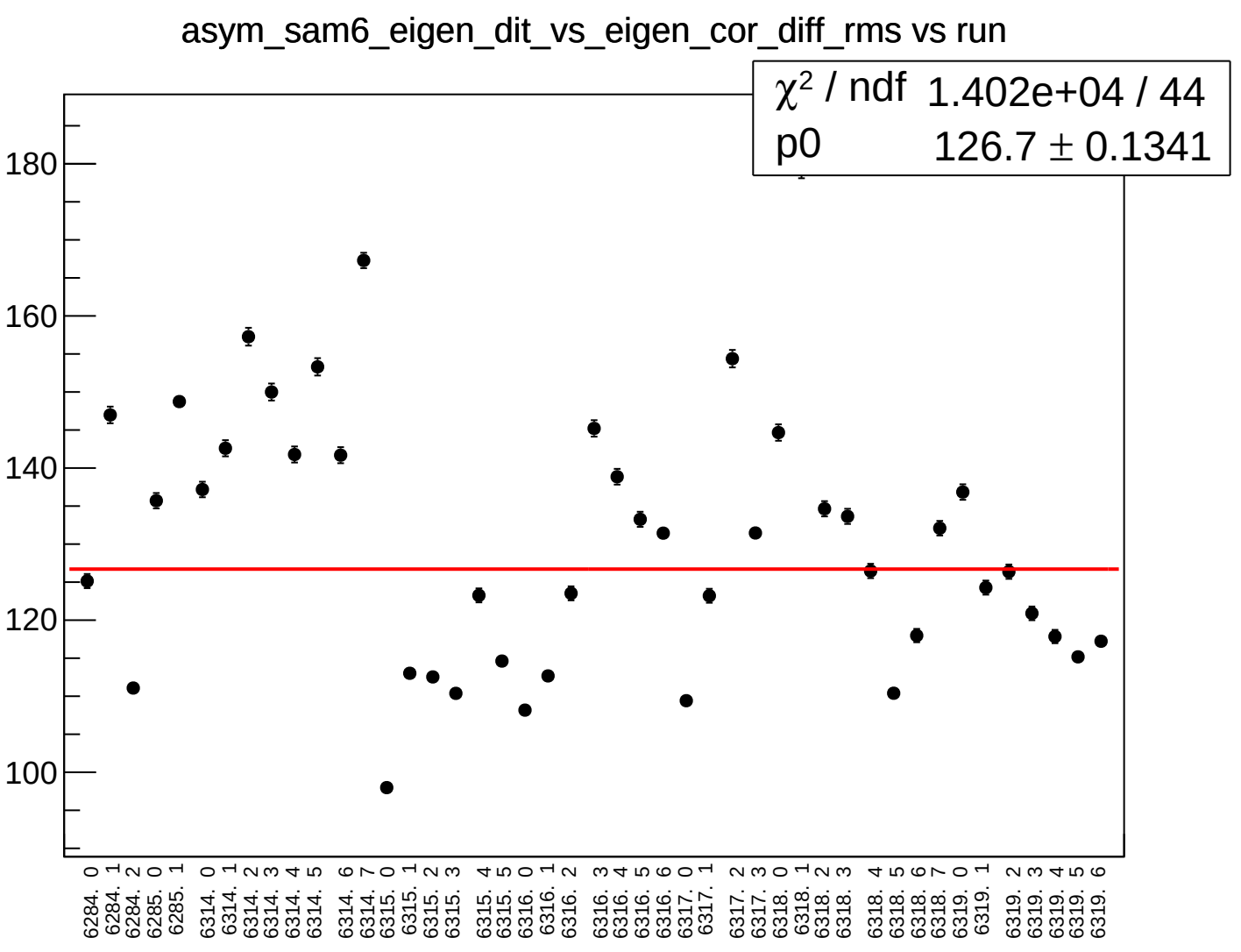

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1340 / 44
p0 0.001066 ± 1.12e–06
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

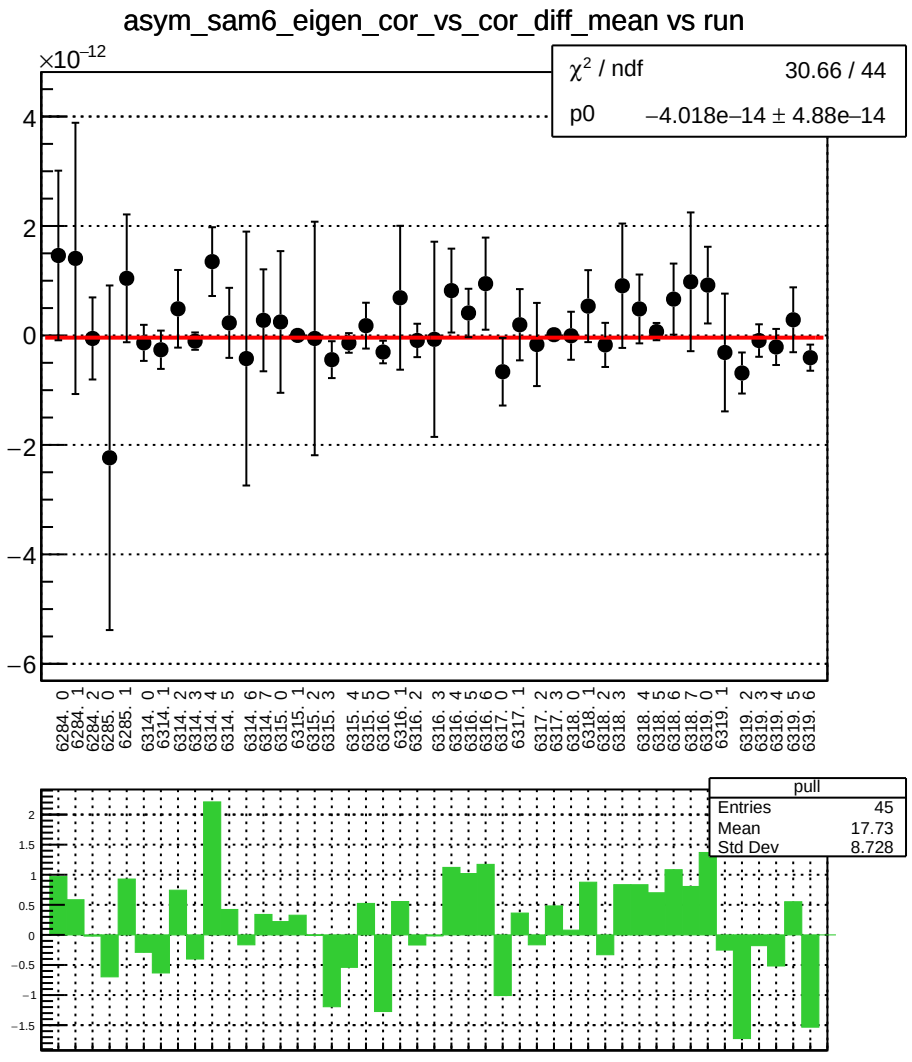

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.2 / 44
p0 −0.02252 ± 0.1896
pull
Entries 45
Mean 5.635
Std Dev 7.474
pull1D
Entries 45
Mean −0.0464
Std Dev 1.165

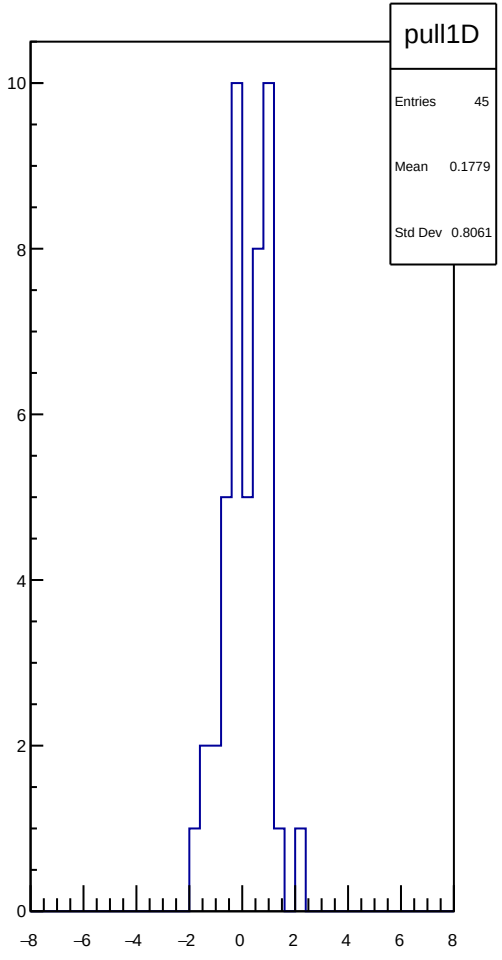

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 44
p0 126.7 ± 0.1341
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

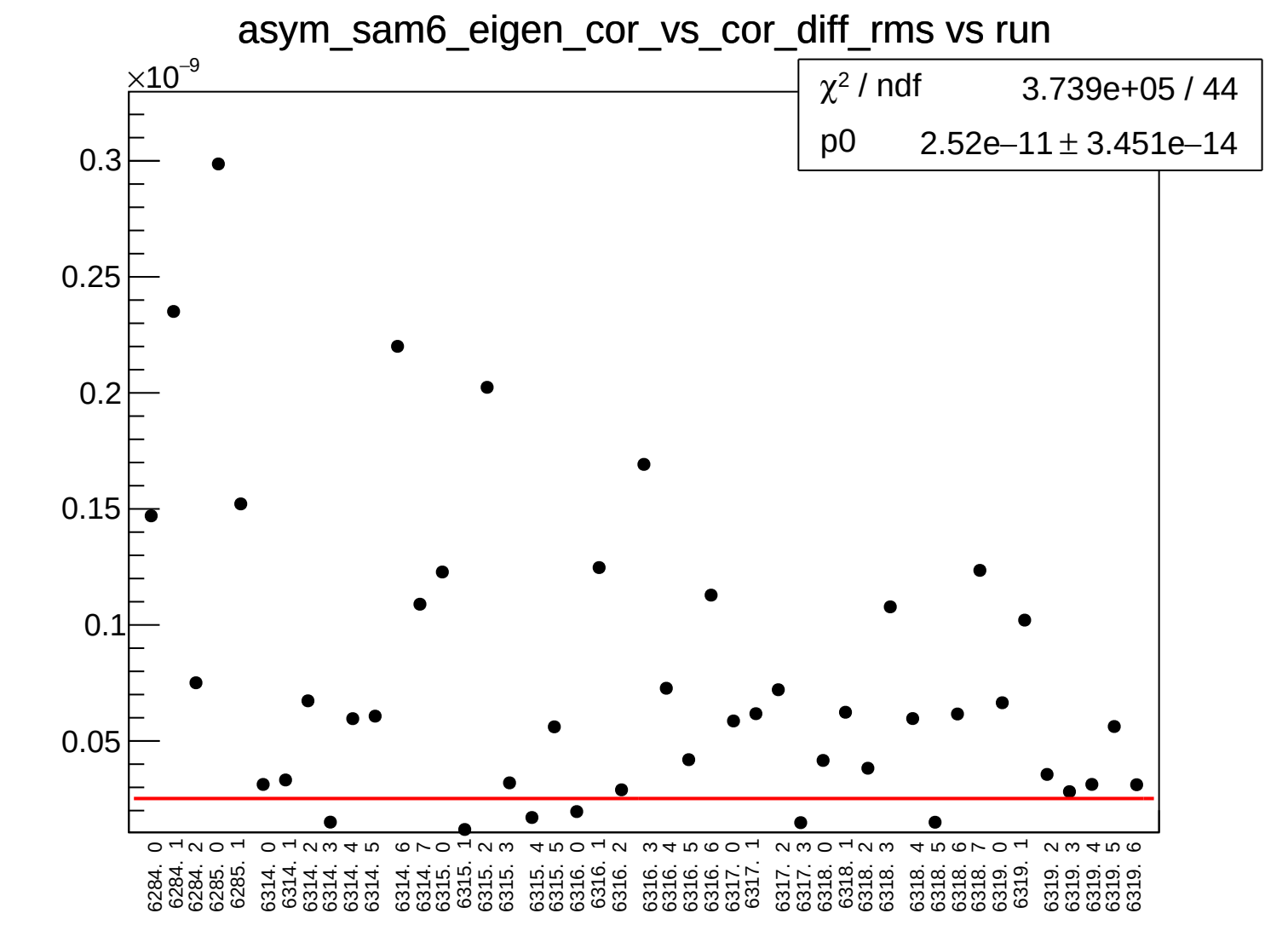

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.2 / 44
p0 −0.02252 ± 0.1896
pull
Entries 45
Mean 5.635
Std Dev 7.474

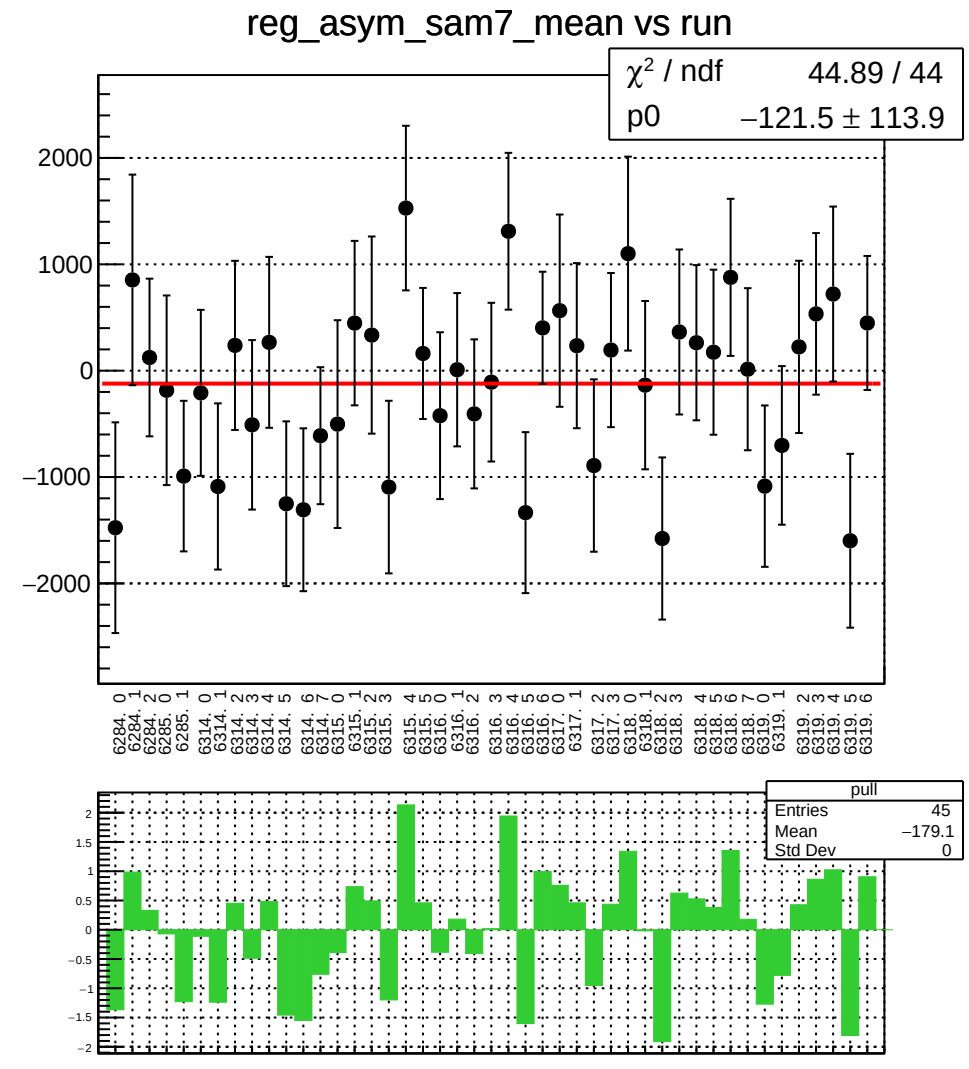

pull1D
Entries 45
Mean −0.0464
Std Dev 1.165

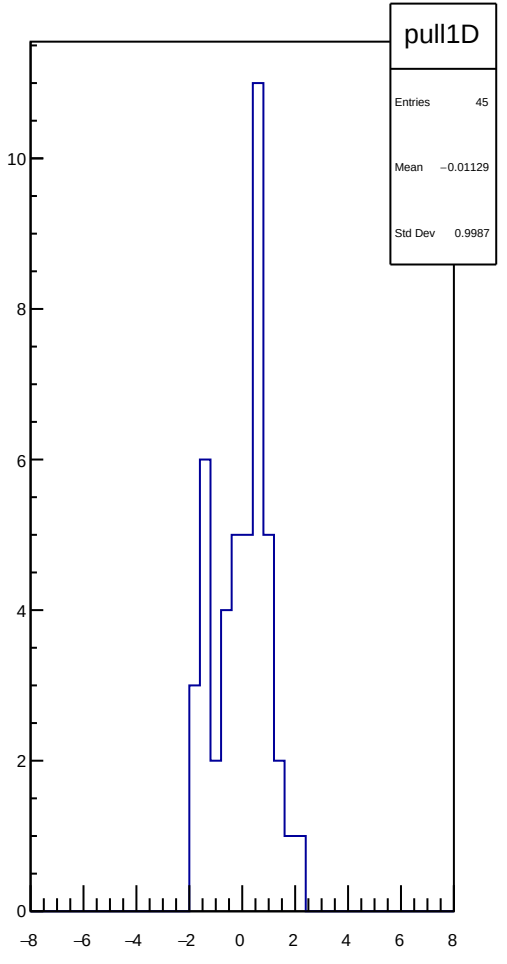

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 44
p0 126.7 ± 0.1341
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

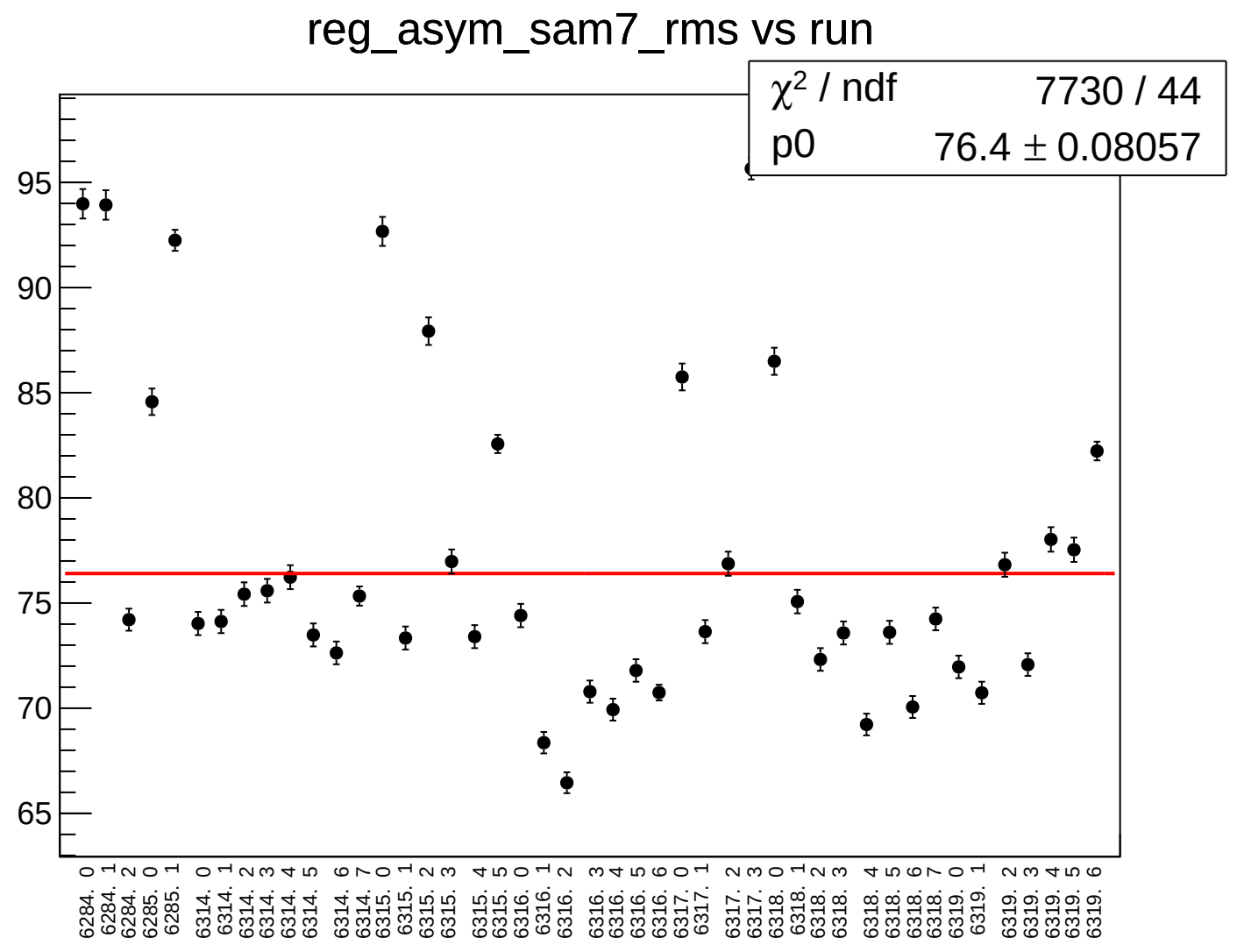

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.66 / 44
p0 −4.018e−14 ± 4.88e−14
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 17.73
Std Dev 8.728
2
1.5
1
0.5
0
−0.5
−1
−1.5

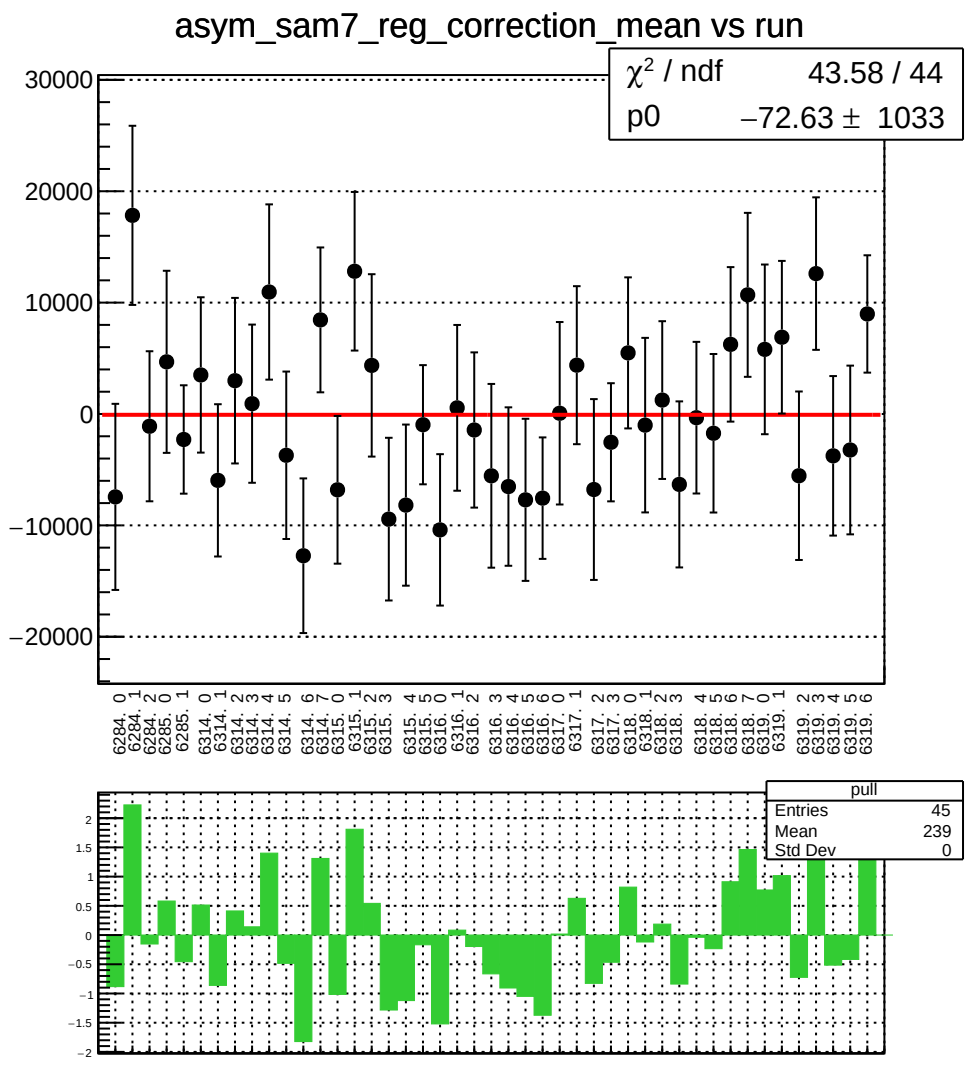

pull1D
Entries 45
Mean 0.1779
Std Dev 0.8061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

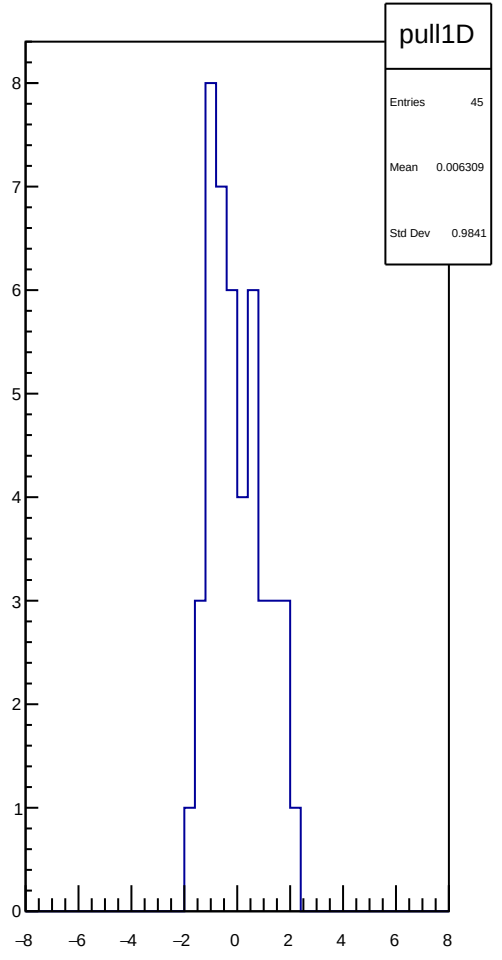

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.739e+05 / 44
p0 2.52e−11 ± 3.451e−14
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

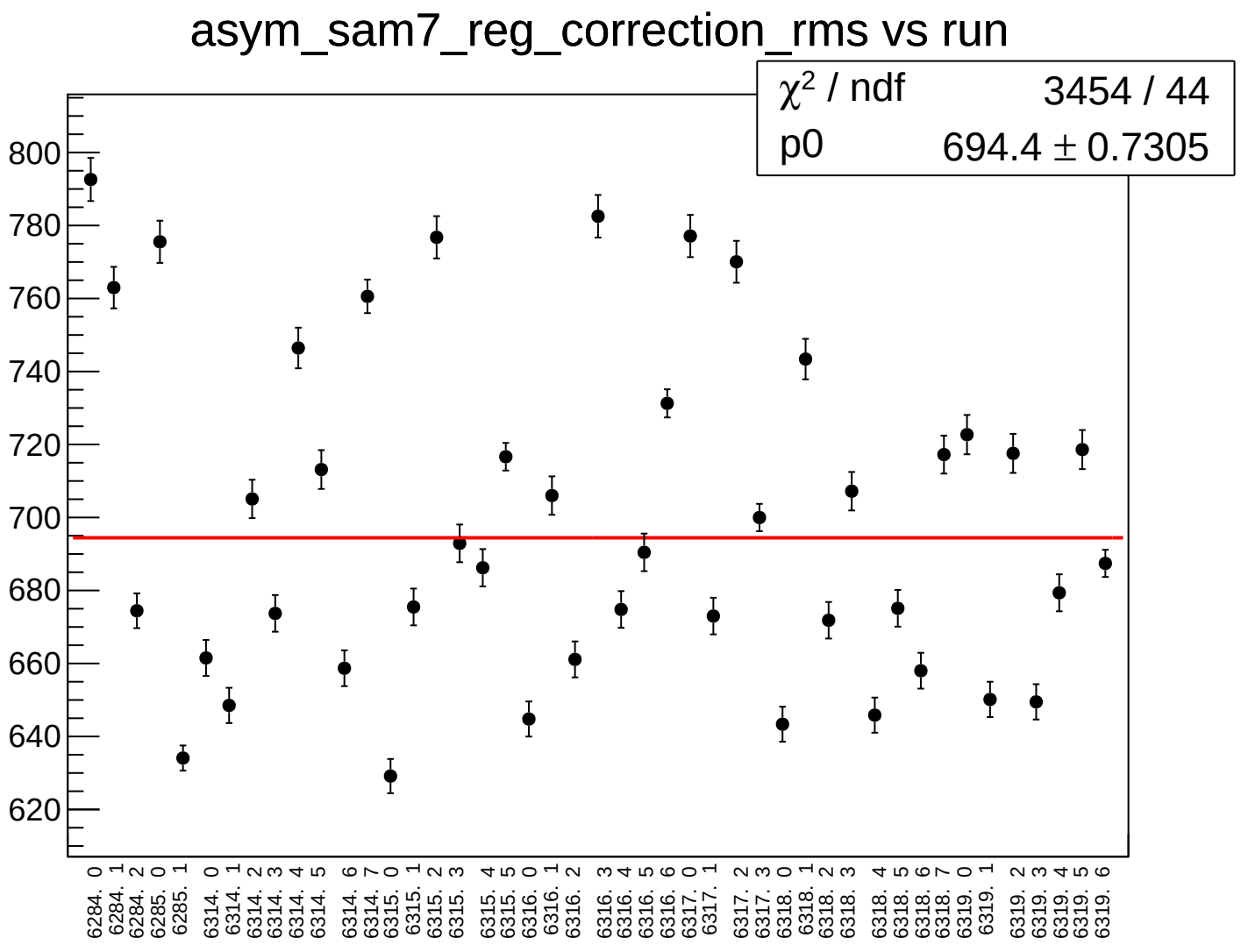

reg_asym_sam7_mean vs run
χ² / ndf 44.89 / 44
p0 −121.5 ± 113.9
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

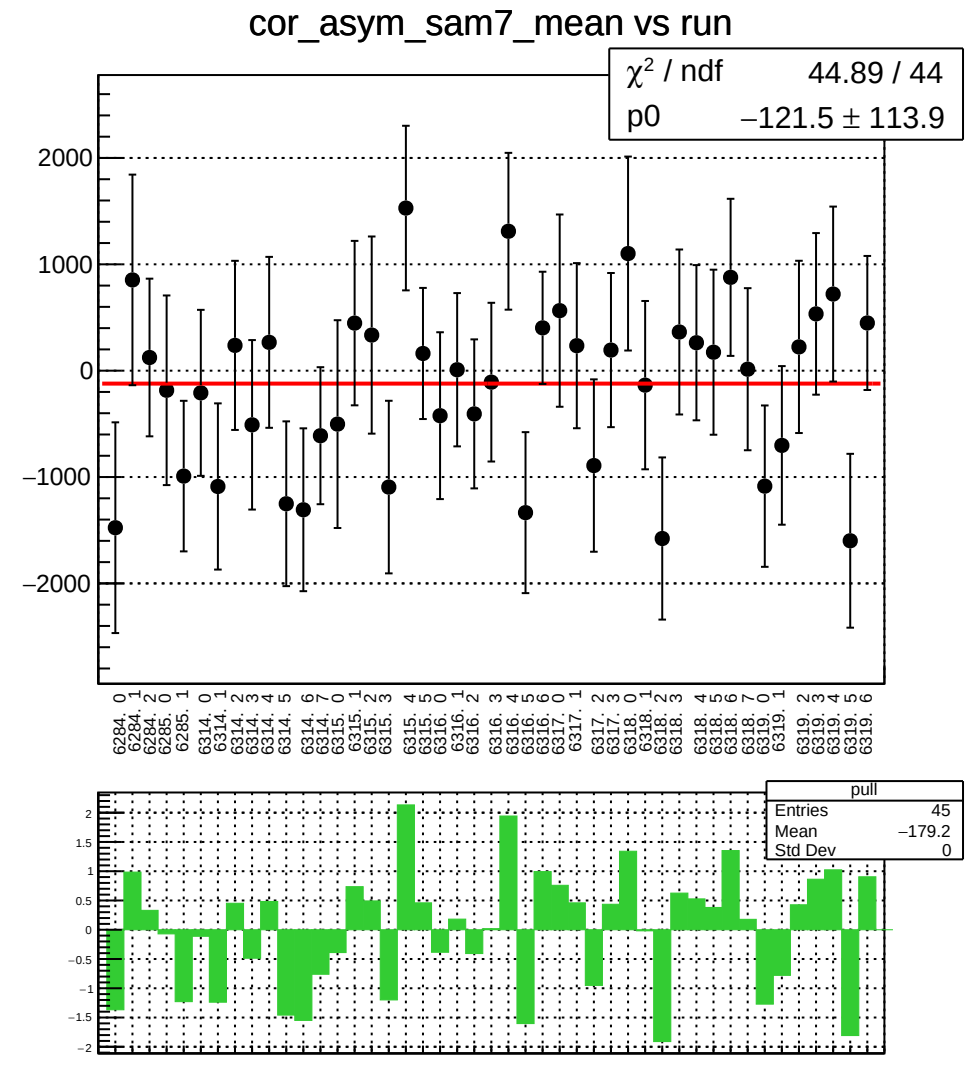

pull1D
Entries 45
Mean −0.01129
Std Dev 0.9987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

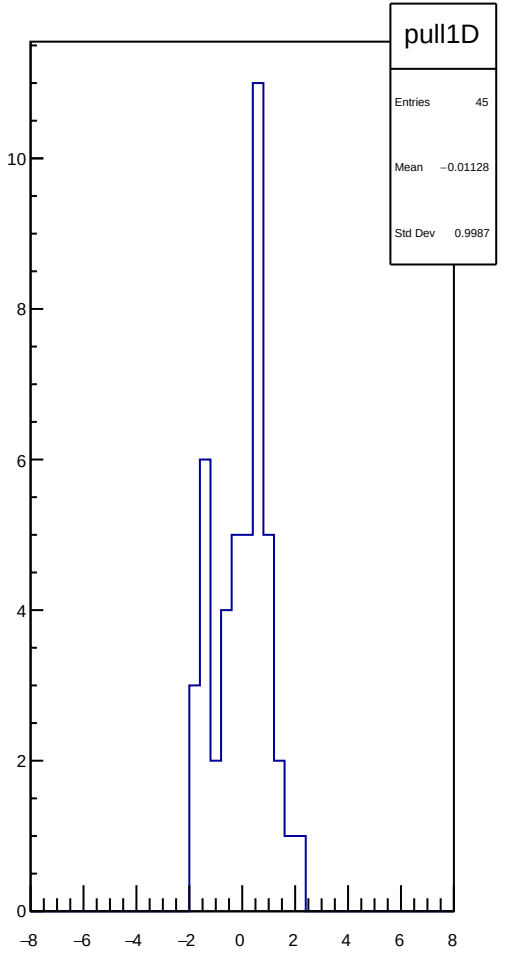

reg_asym_sam7_rms vs run
χ² / ndf 7730 / 44
p0 76.4 ± 0.08057
95
90
85
80
75
70
65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

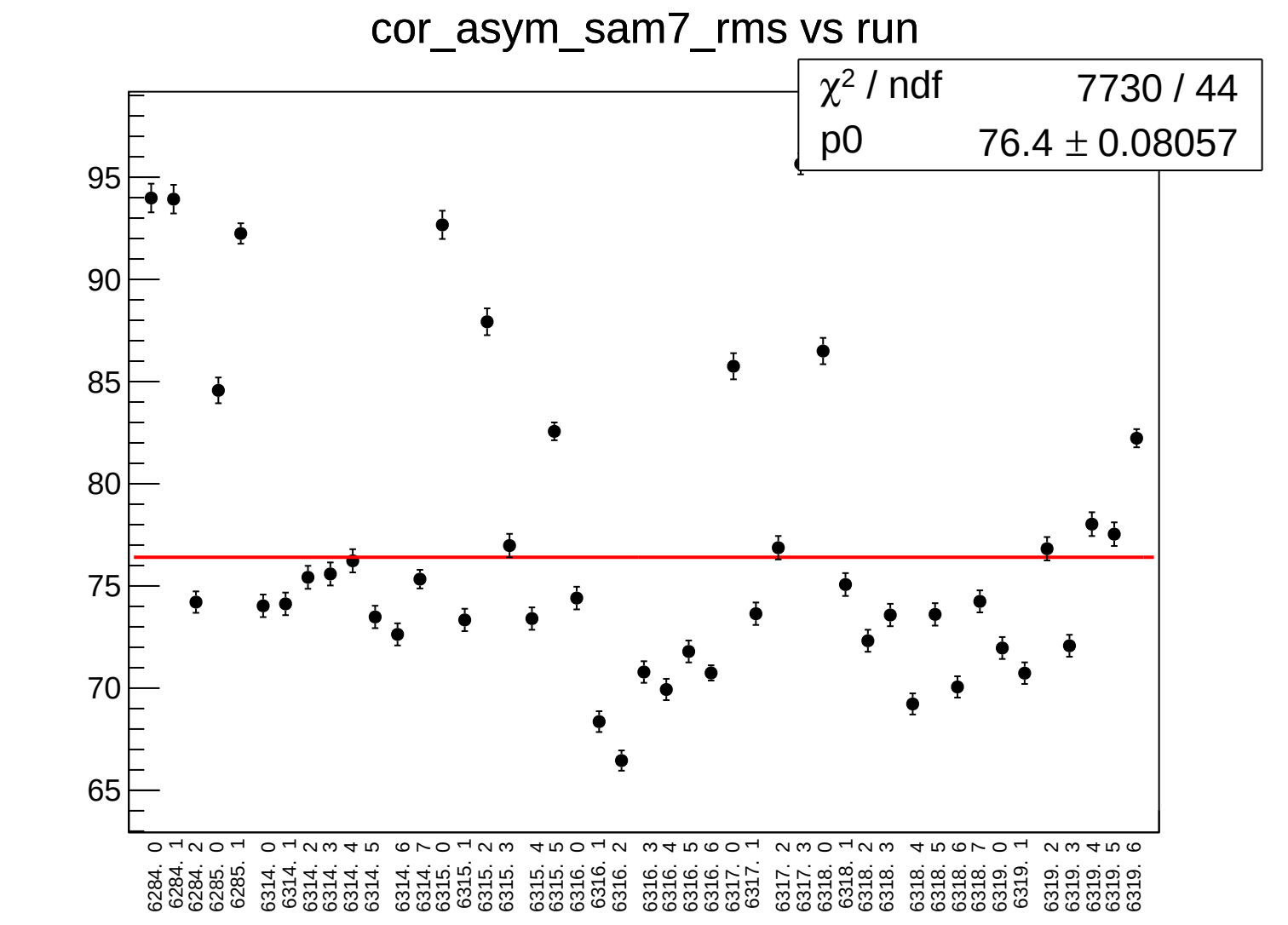

asym_sam7_reg_correction_mean vs run
χ² / ndf 43.58 / 44
p0 −72.63 ± 1033
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 239
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

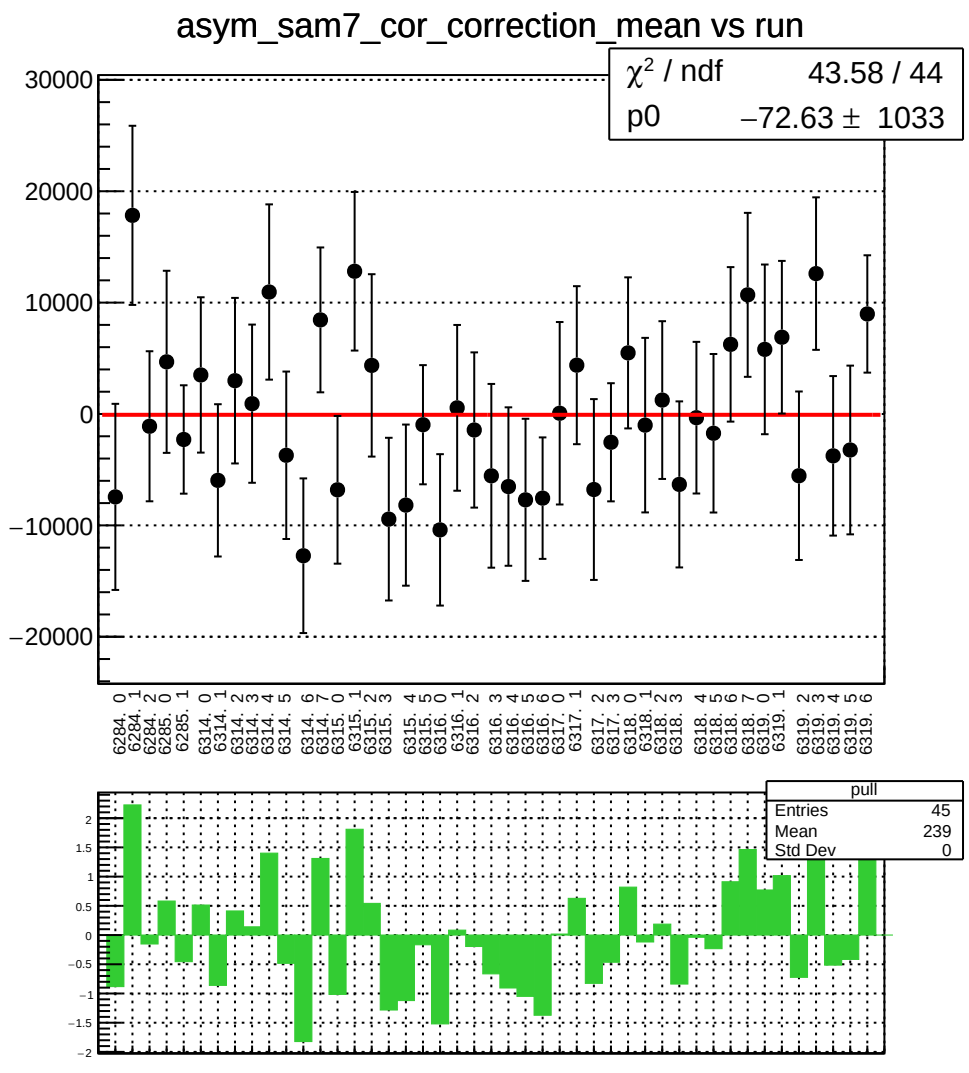

pull1D
Entries 45
Mean 0.006309
Std Dev 0.9841
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

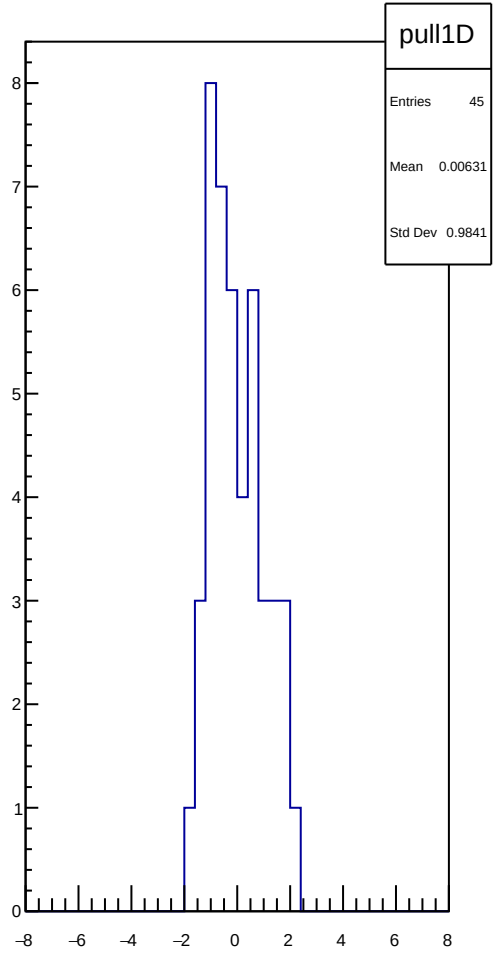

asym_sam7_reg_correction_rms vs run
χ² / ndf 3454 / 44
p0 694.4 ± 0.7305
800
780
760
740
720
700
680
660
640
620
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam7_mean vs run
χ² / ndf 44.89 / 44
p0 −121.5 ± 113.9
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01128
Std Dev 0.9987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam7_rms vs run
χ² / ndf 7730 / 44
p0 76.4 ± 0.08057
95
90
85
80
75
70
65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam7_cor_correction_mean vs run
χ² / ndf 43.58 / 44
p0 −72.63 ± 1033
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 239
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00631
Std Dev 0.9841
8
7
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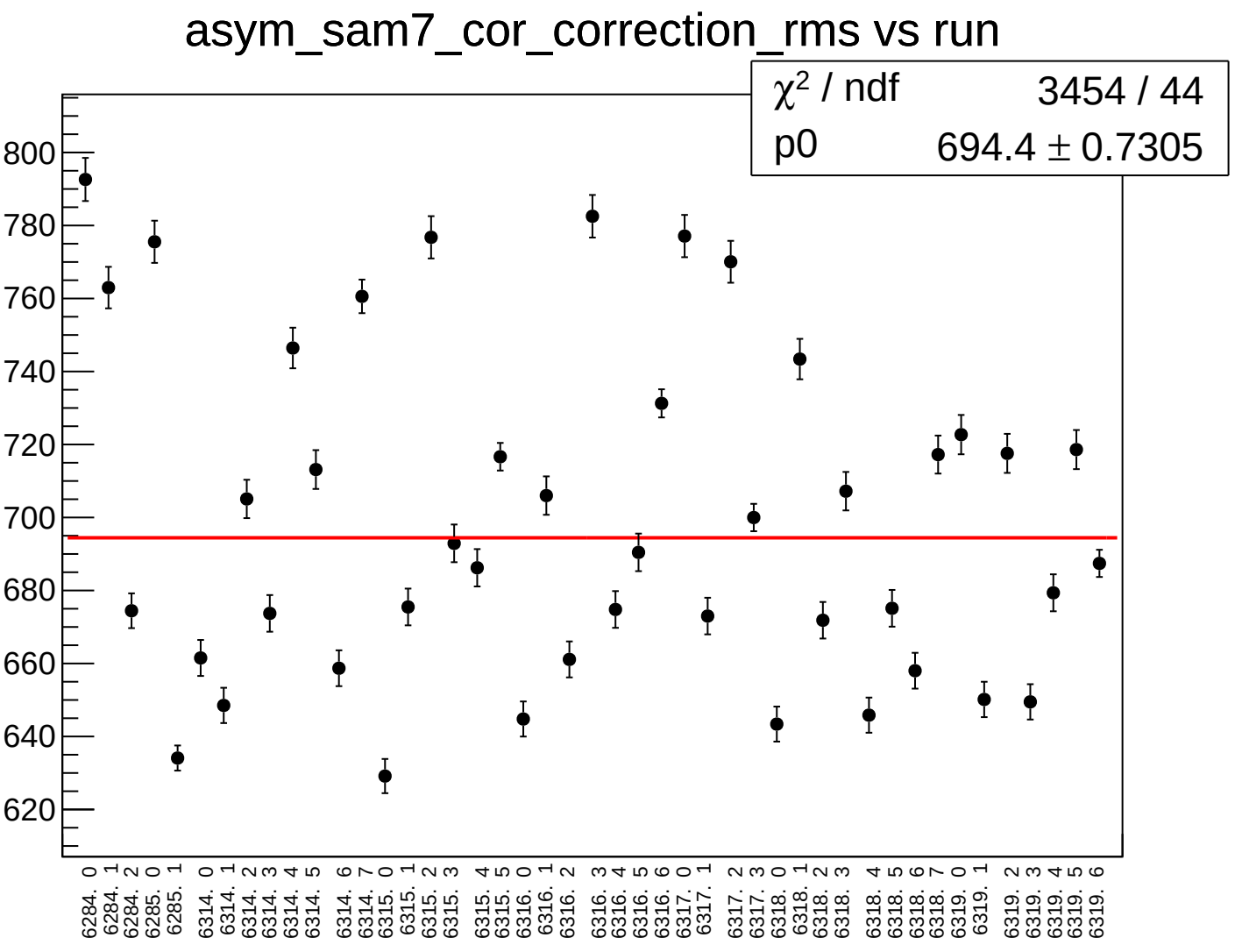
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 3454 / 44
p0 694.4 ± 0.7305
800
780
760
740
720
700
680
660
640
620
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 3
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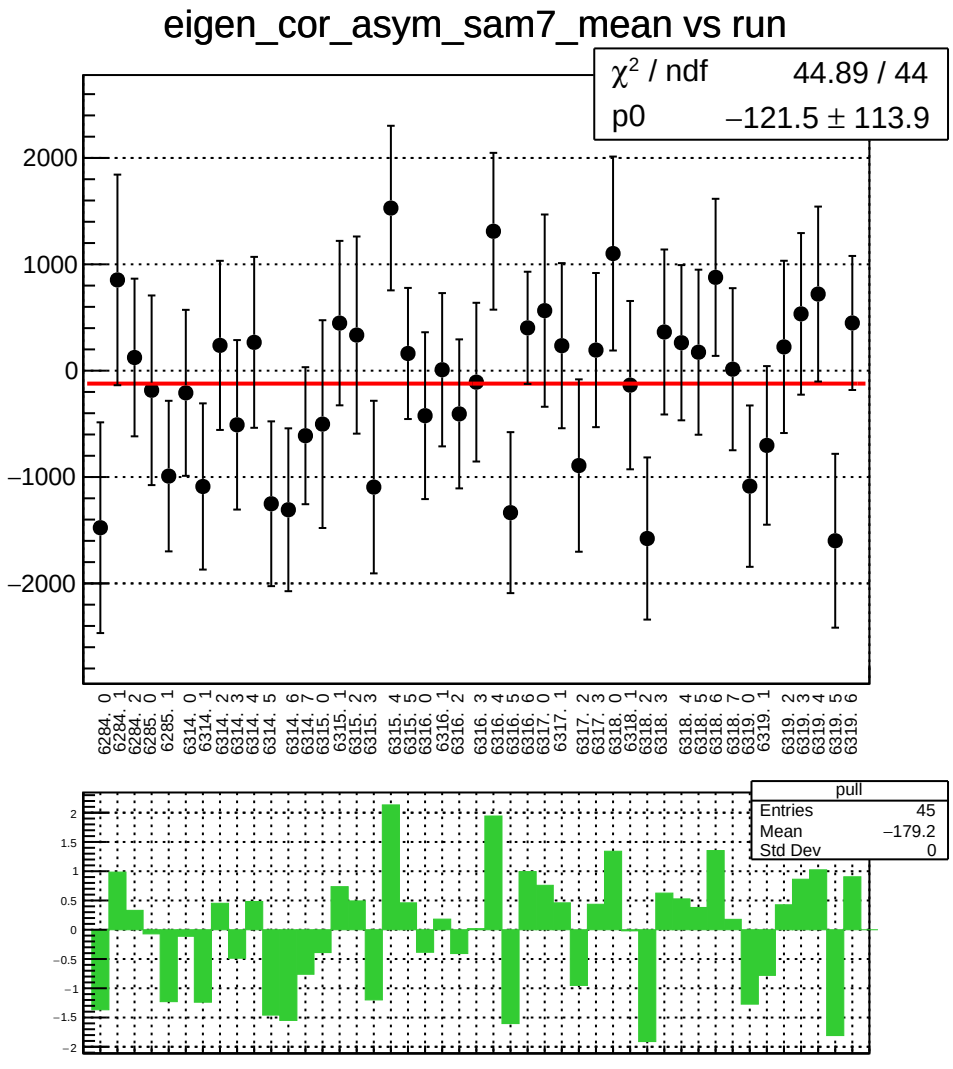
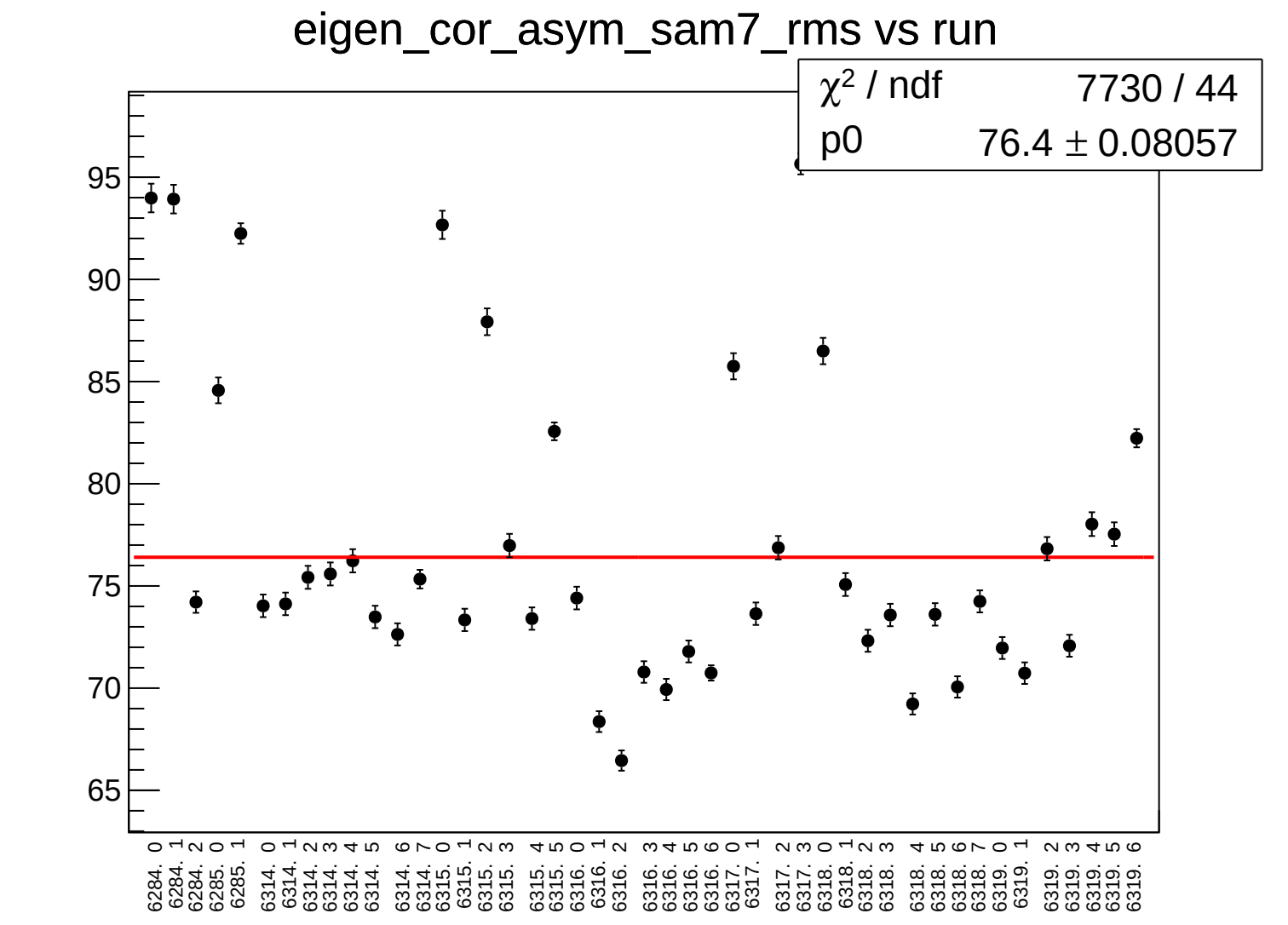

eigen_cor_asym_sam7_mean vs run
χ² / ndf 44.89 / 44
p0 −121.5 ± 113.9
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −179.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01128
Std Dev 0.9987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam7_rms vs run
χ² / ndf 7730 / 44
p0 76.4 ± 0.08057
95
90
85
80
75
70
65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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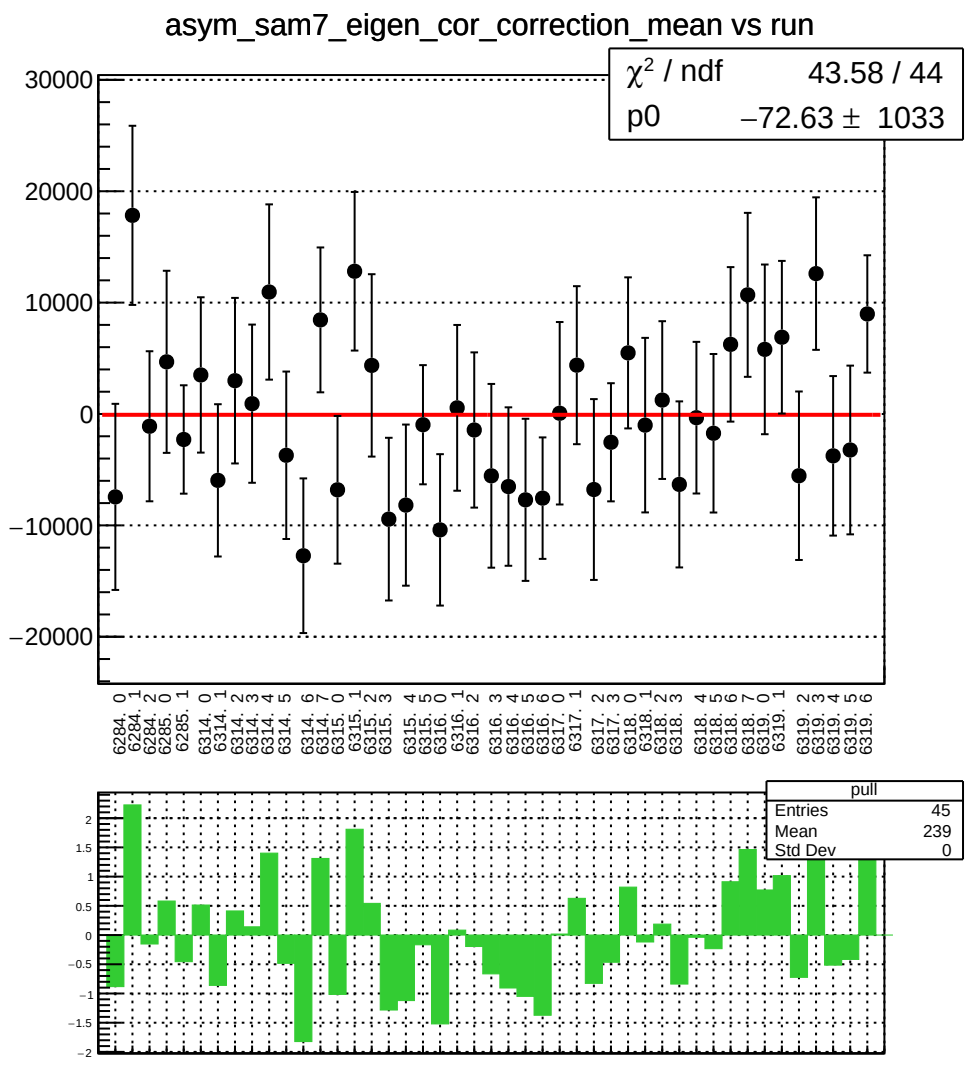
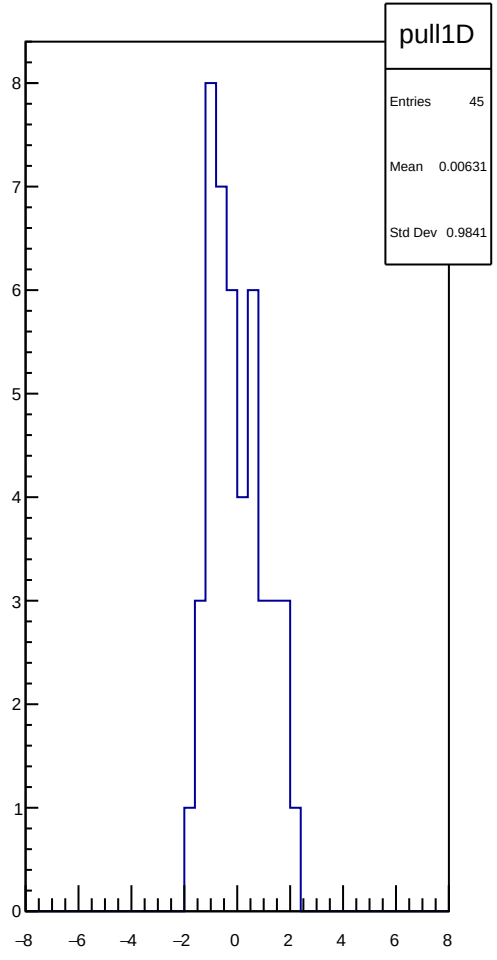
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 43.58 / 44
p0 −72.63 ± 1033
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 239
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00631
Std Dev 0.9841
8
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2
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−8
−6
−4
−2
0
2
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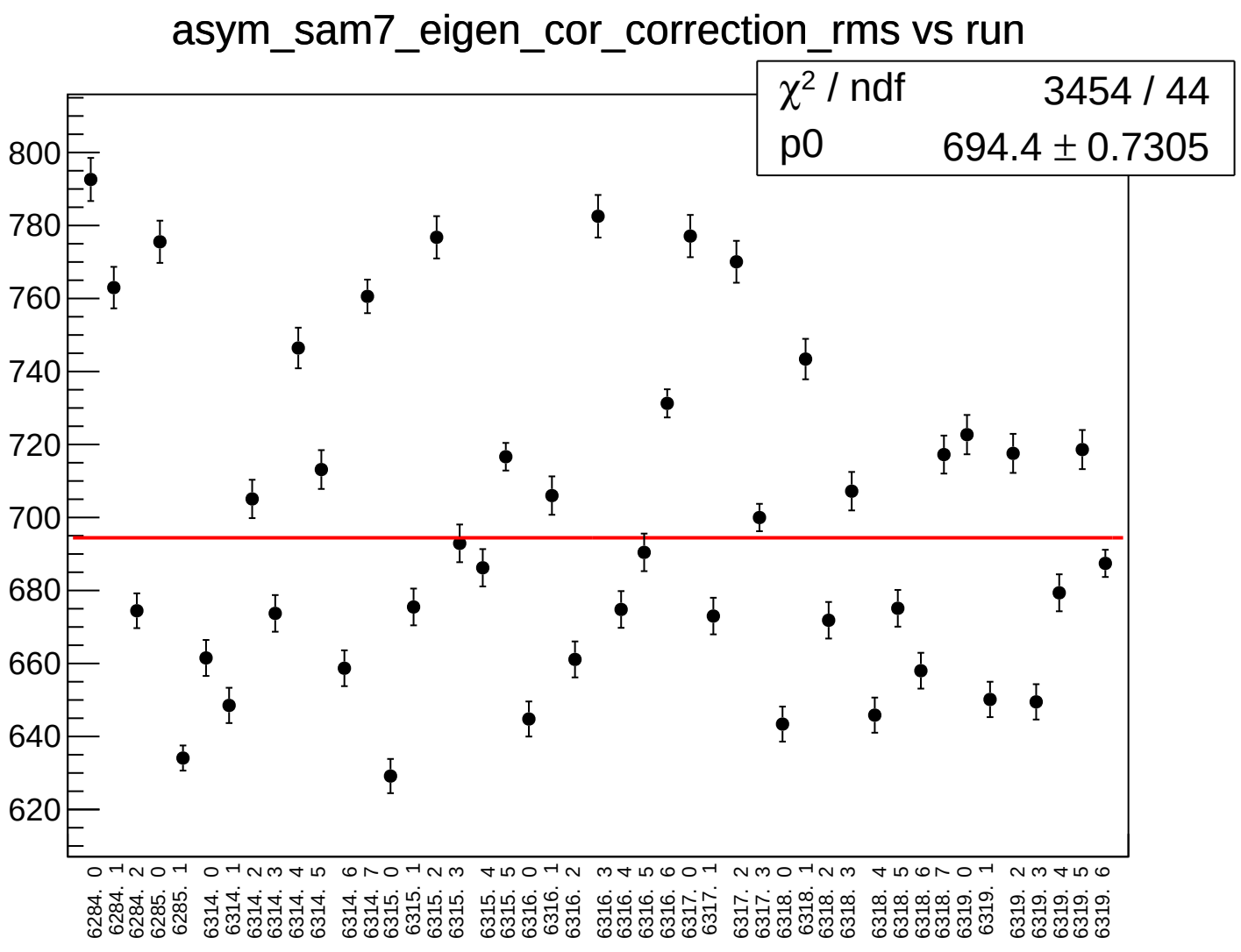
6
8


asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3454 / 44
p0 694.4 ± 0.7305
800
780
760
740
720
700
680
660
640
620
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
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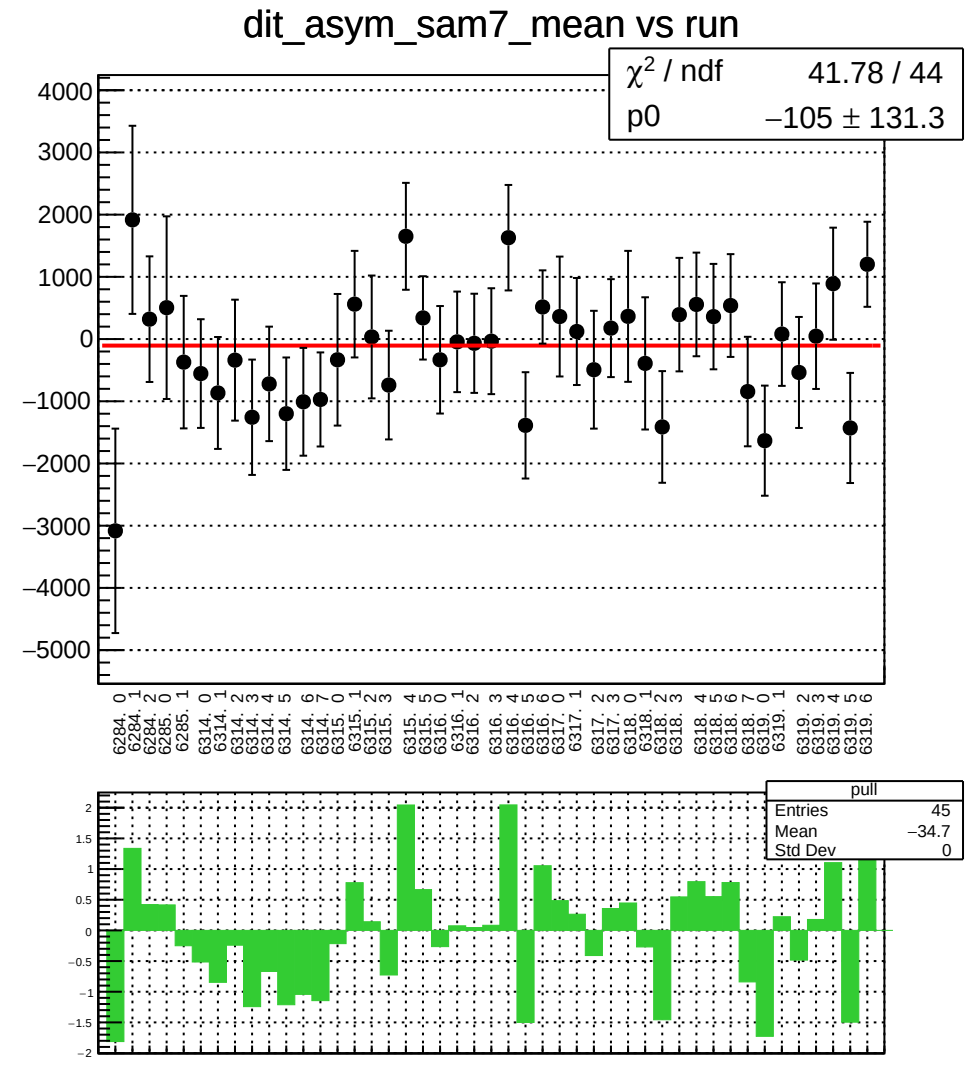
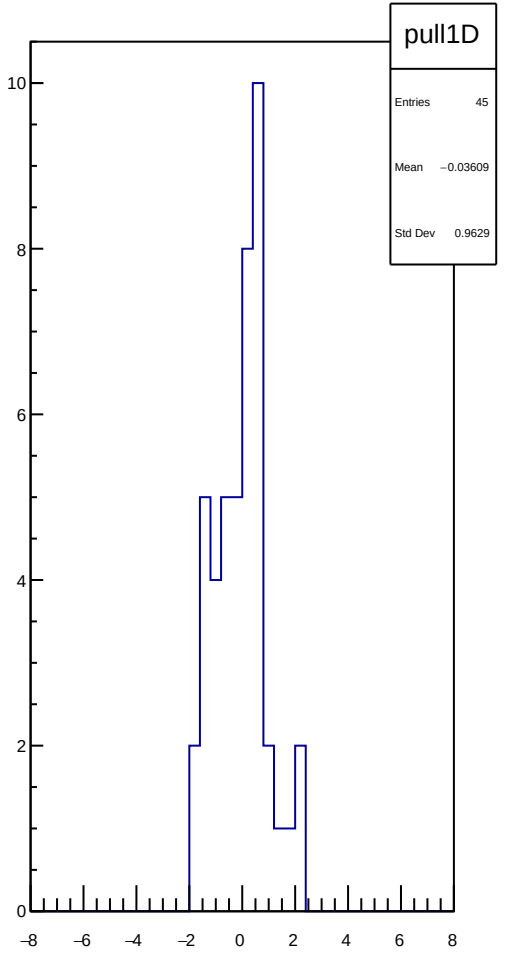
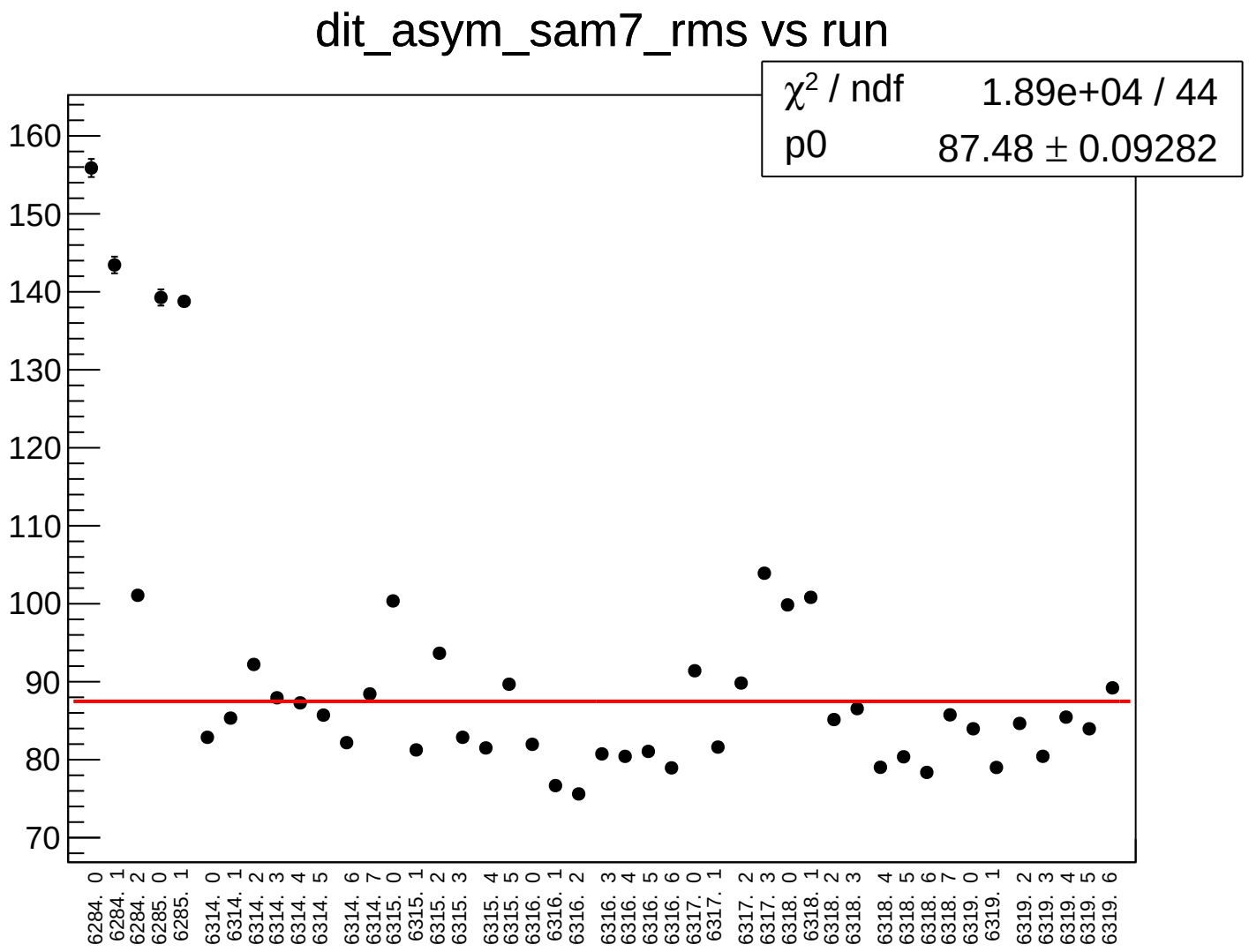

dit_asym_sam7_mean vs run
χ^2 / ndf 41.78 / 44
p0 −105 ± 131.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −34.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.03609
Std Dev 0.9629
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam7_rms vs run
χ^2 / ndf 1.89e+04 / 44
p0 87.48 ± 0.09282
160
150
140
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
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6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
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6318. 7
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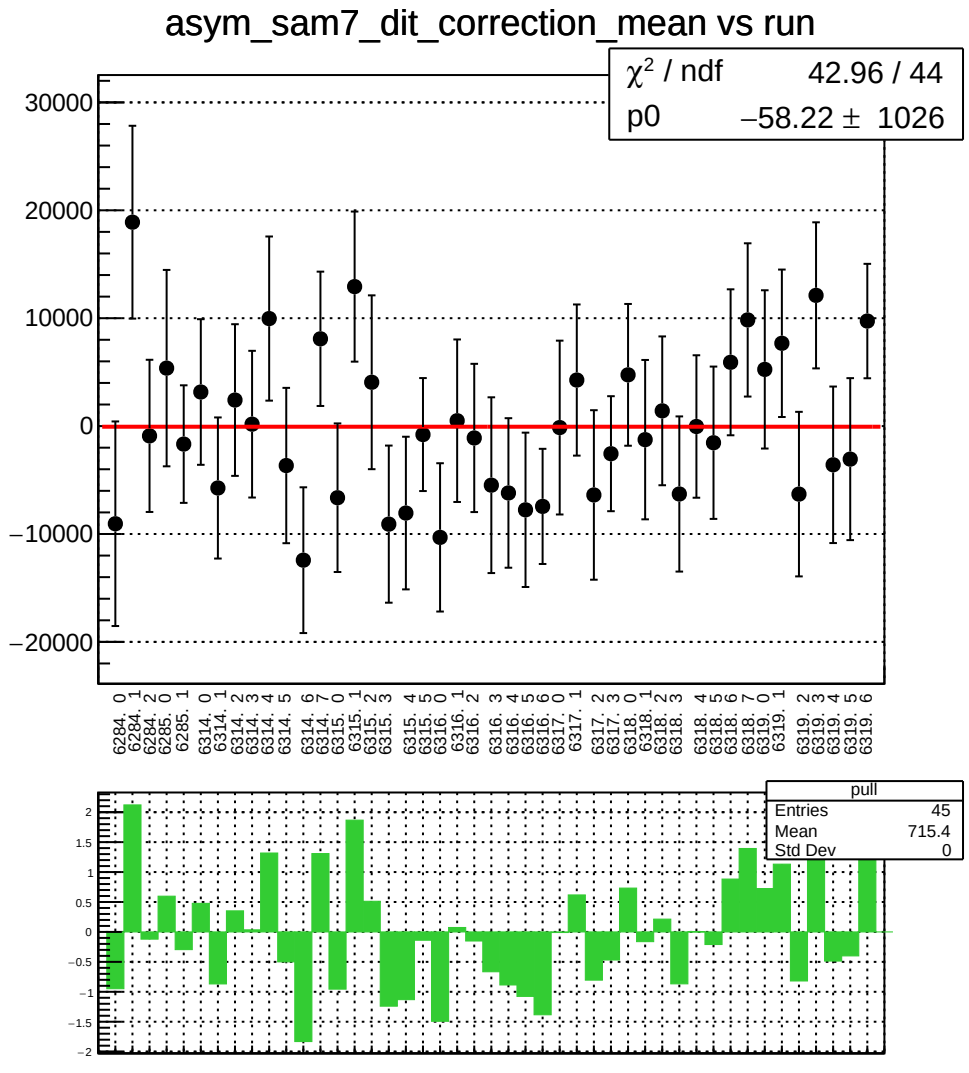
6319. 6


asym_sam7_dit_correction_mean vs run
χ² / ndf 42.96 / 44
p0 −58.22 ± 1026
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6316. 1
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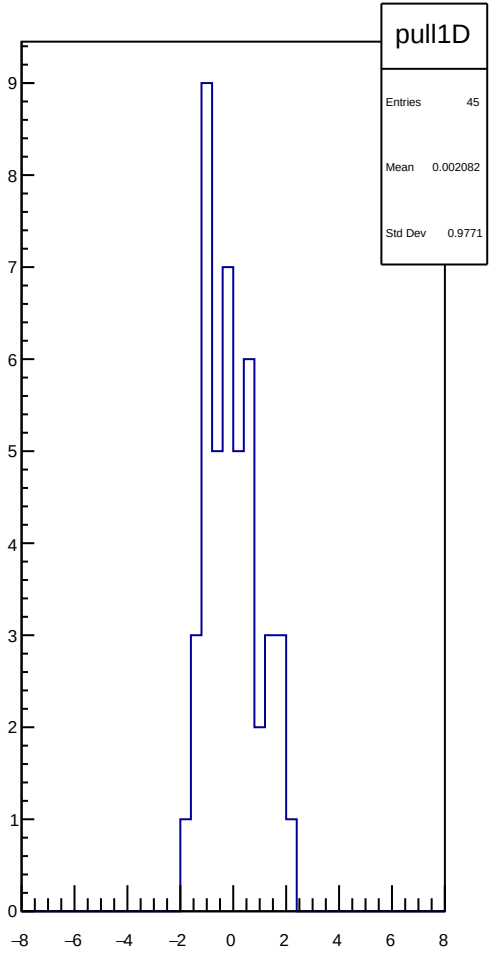
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 715.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.002082
Std Dev 0.9771
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8
7
6
5
4
3
2
1
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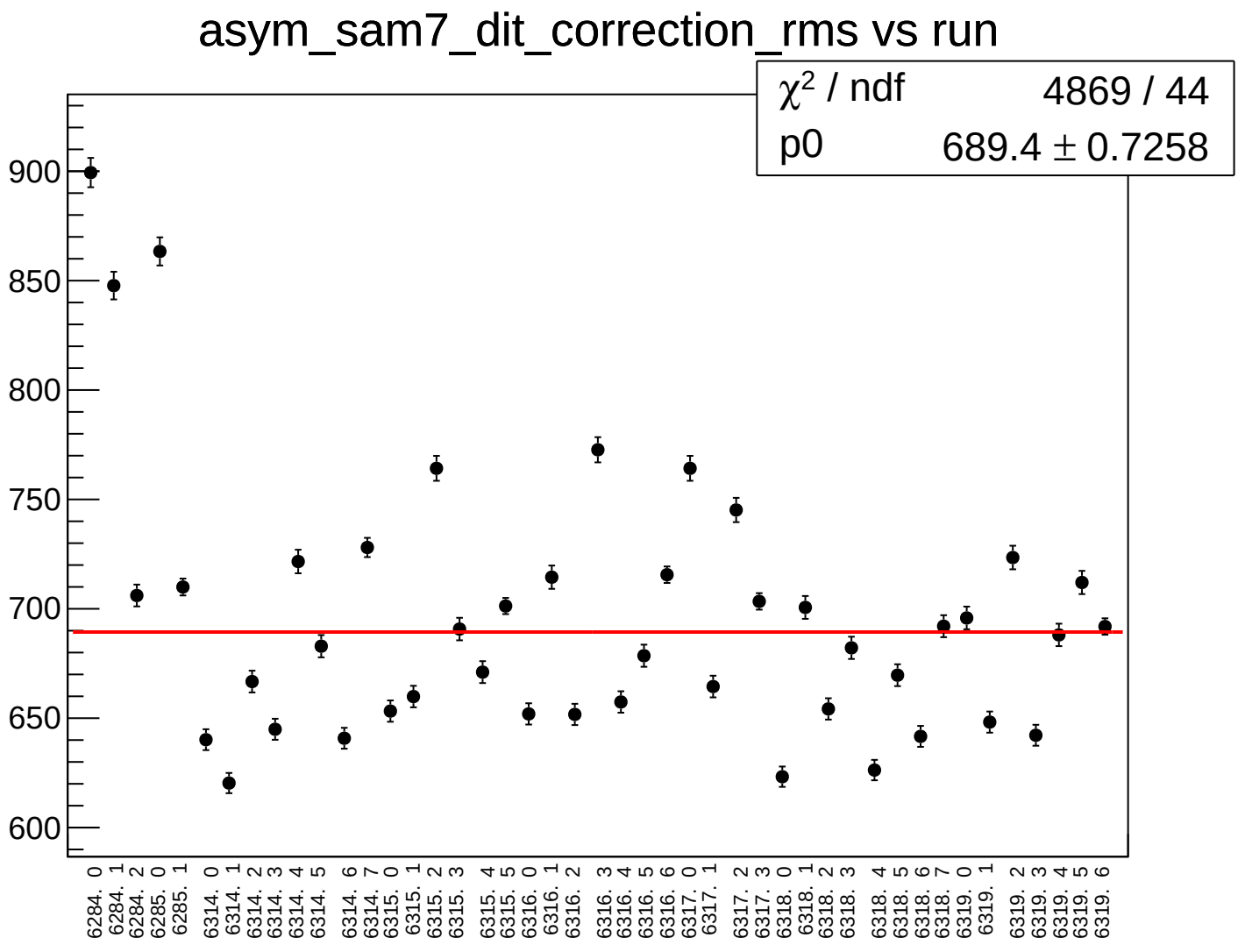
−6
−4
−2
0
2
4
6
8


asym_sam7_dit_correction_rms vs run
χ² / ndf 4869 / 44
p0 689.4 ± 0.7258
900
850
800
750
700
650
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6319. 2
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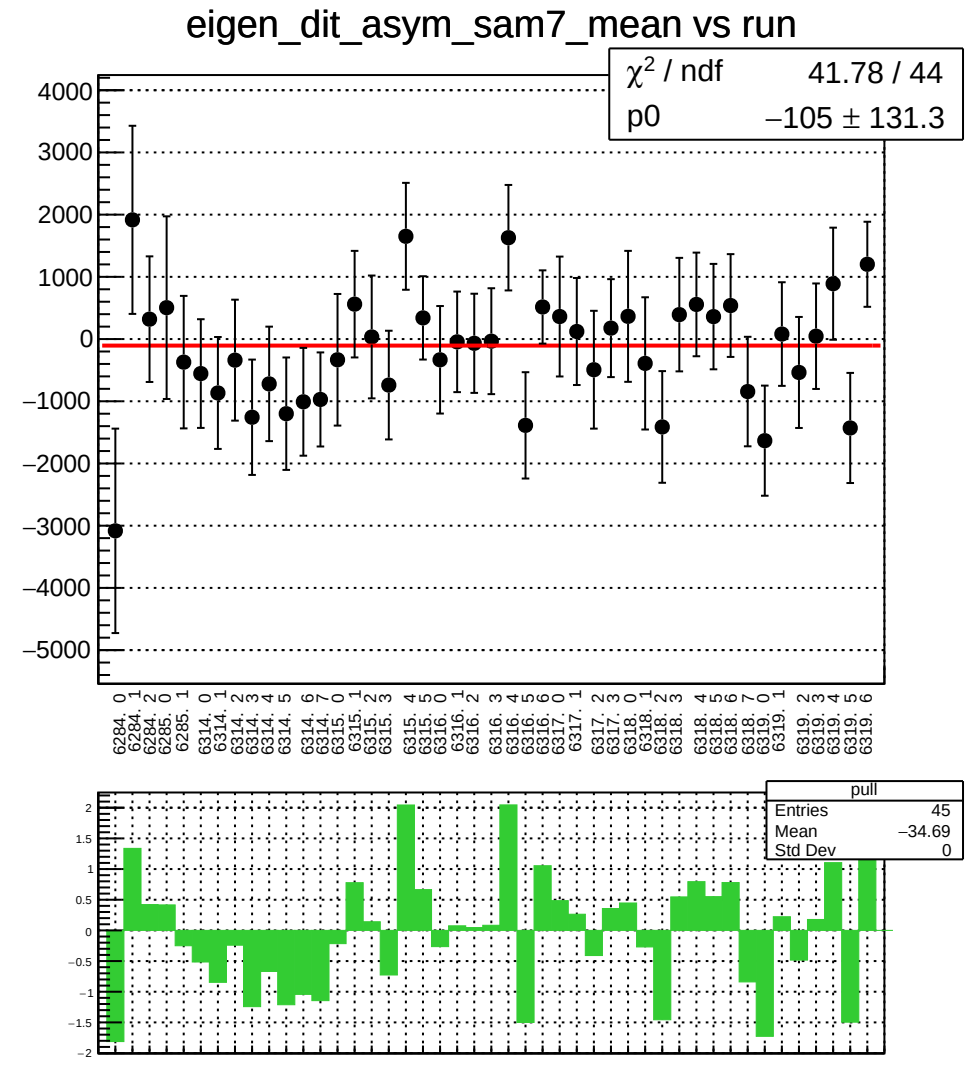
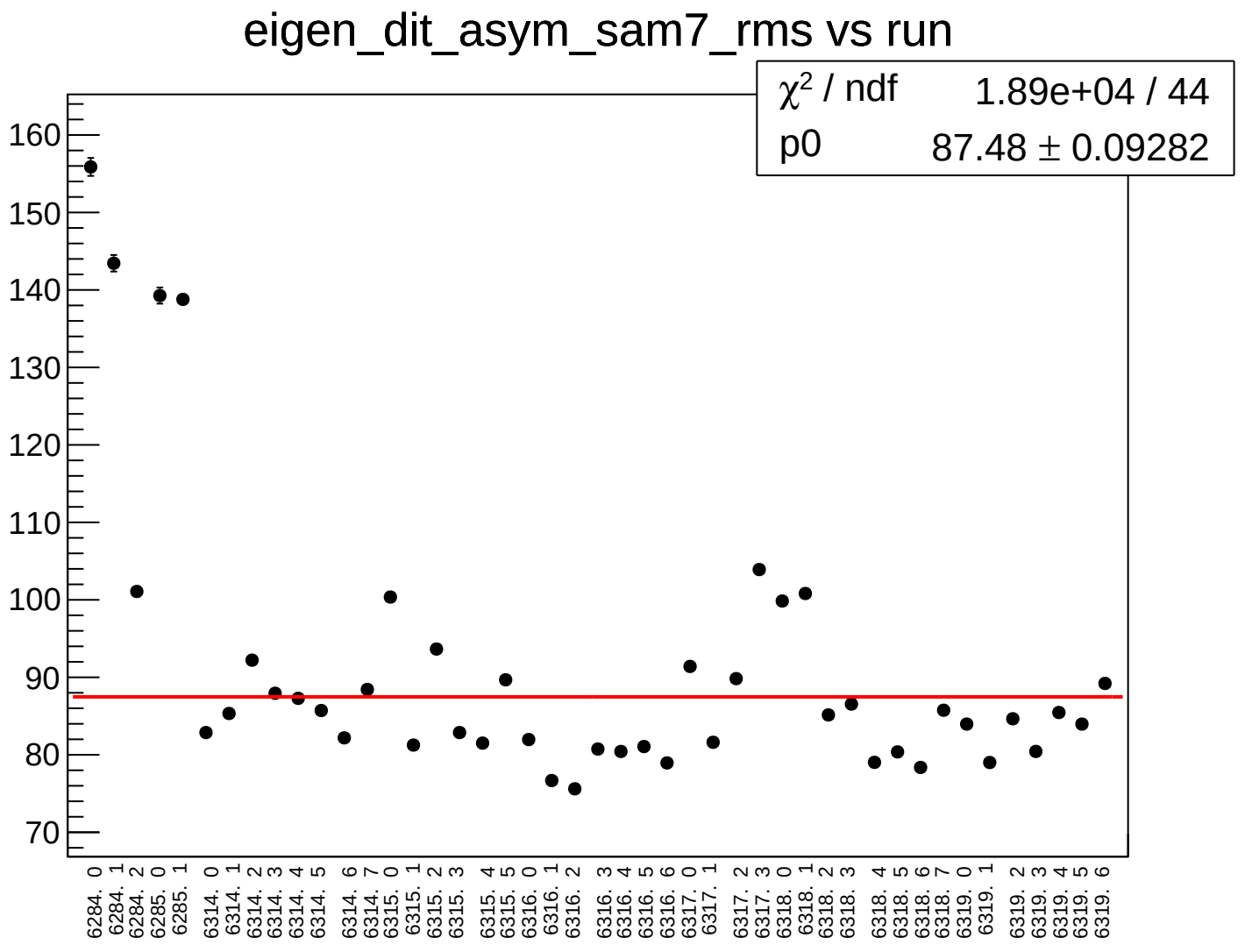
6319. 6


eigen_dit_asym_sam7_mean vs run
χ² / ndf 41.78 / 44
p0 −105 ± 131.3
pull
Entries 45
Mean −34.69
Std Dev 0
pull1D
Entries 45
Mean −0.03609
Std Dev 0.9629


eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.89e+04 / 44
p0 87.48 ± 0.09282
160
150
140
130
120
110
100
90
80
70
6284. 0
6284. 1
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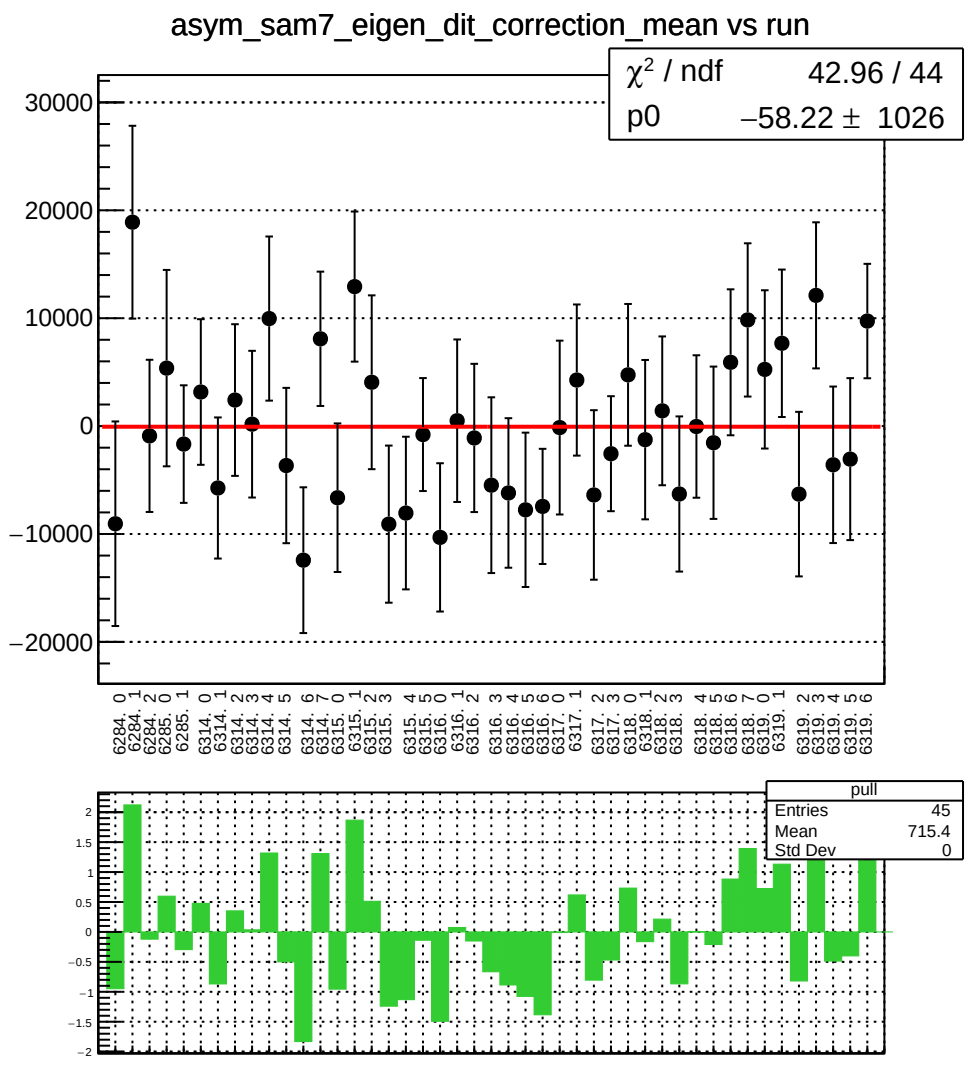
6319. 6


asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 42.96 / 44
p0 −58.22 ± 1026
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6318. 2
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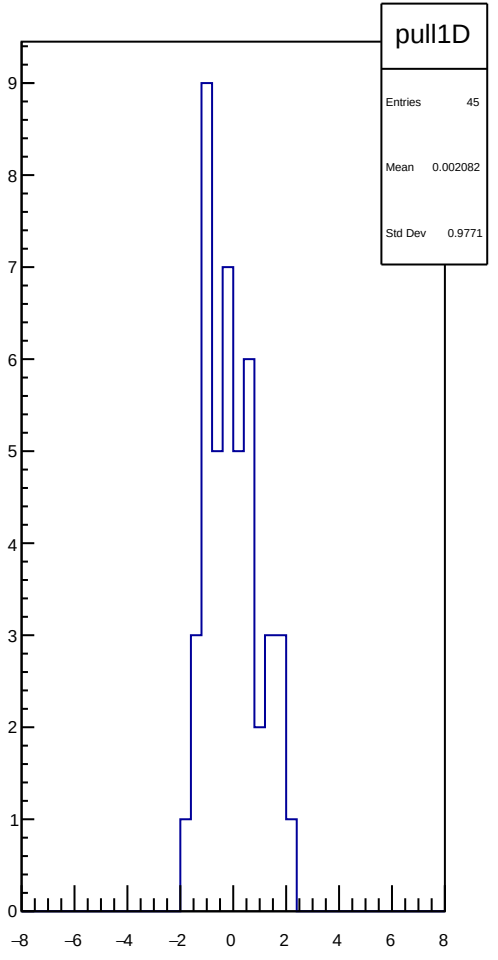
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 715.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.002082
Std Dev 0.9771
9
8
7
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5
4
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2
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−4
−2
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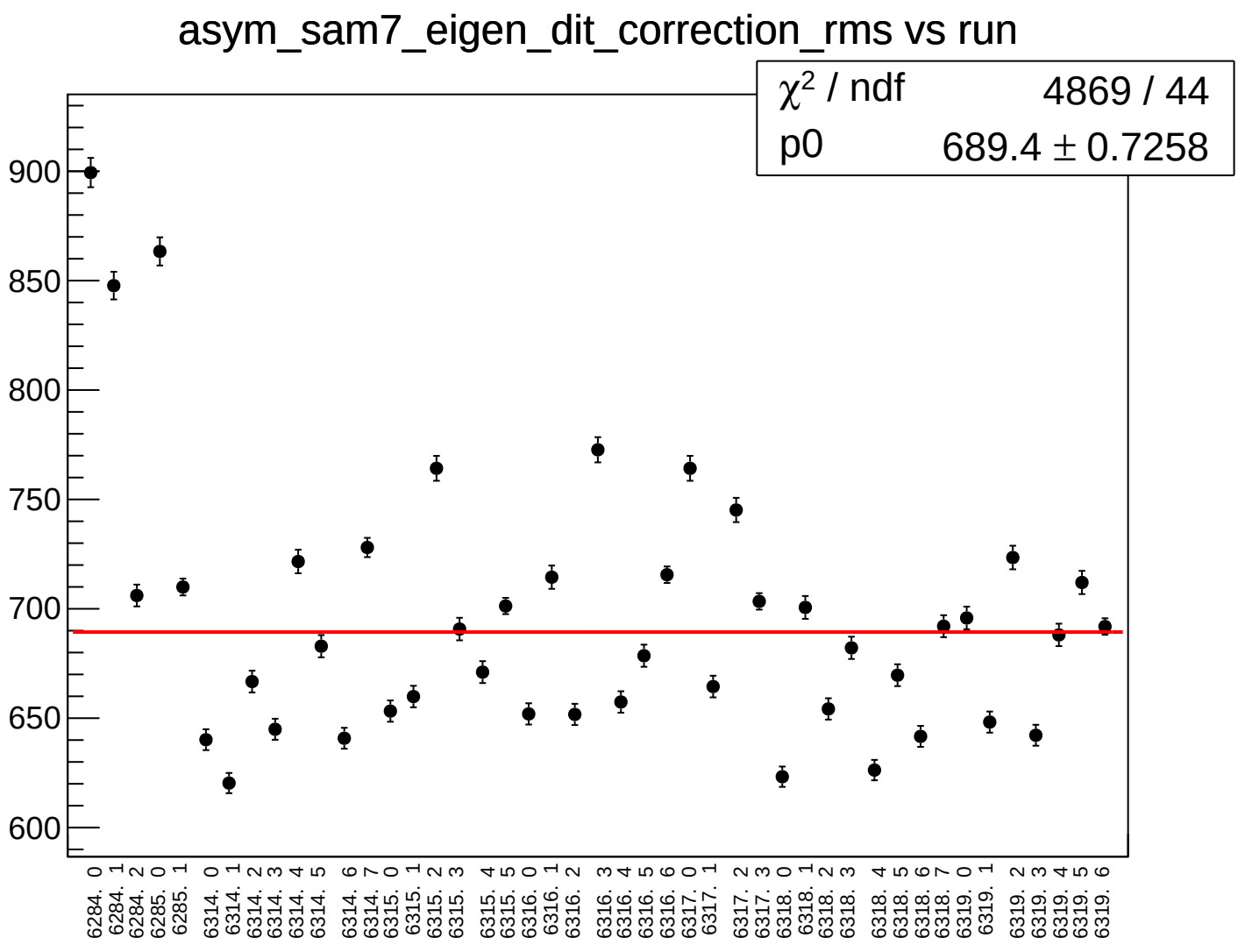
2
4
6
8


asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4869 / 44
p0 689.4 ± 0.7258
900
850
800
750
700
650
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
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6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
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6317. 2
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6318. 0
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6318. 4
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6319. 2
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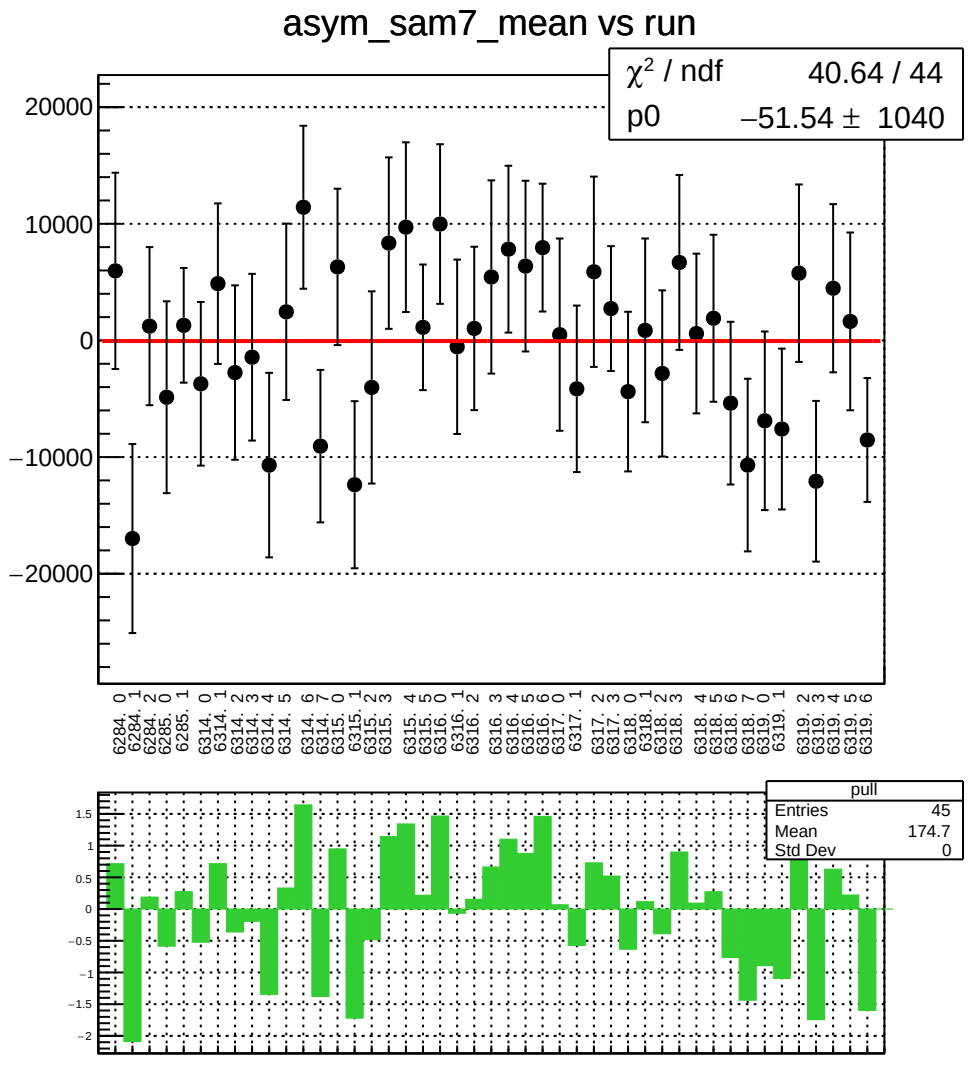
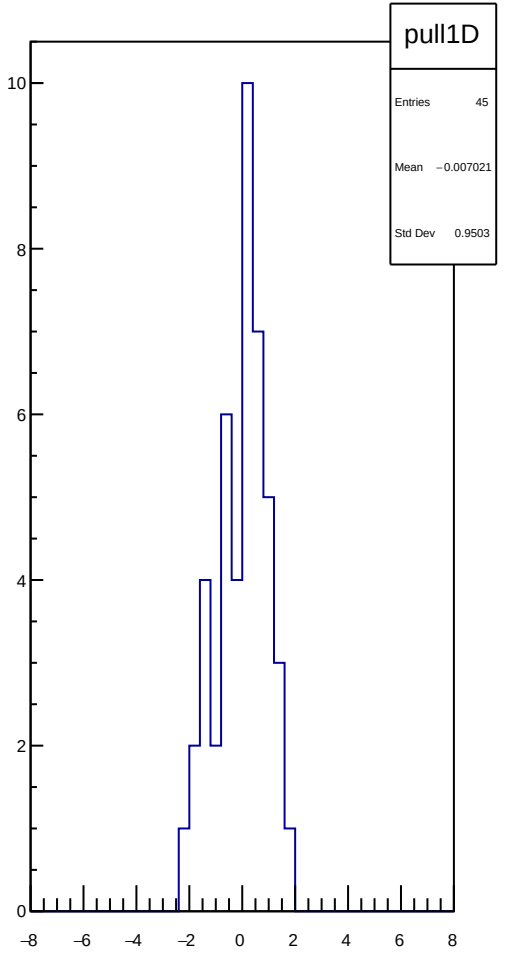
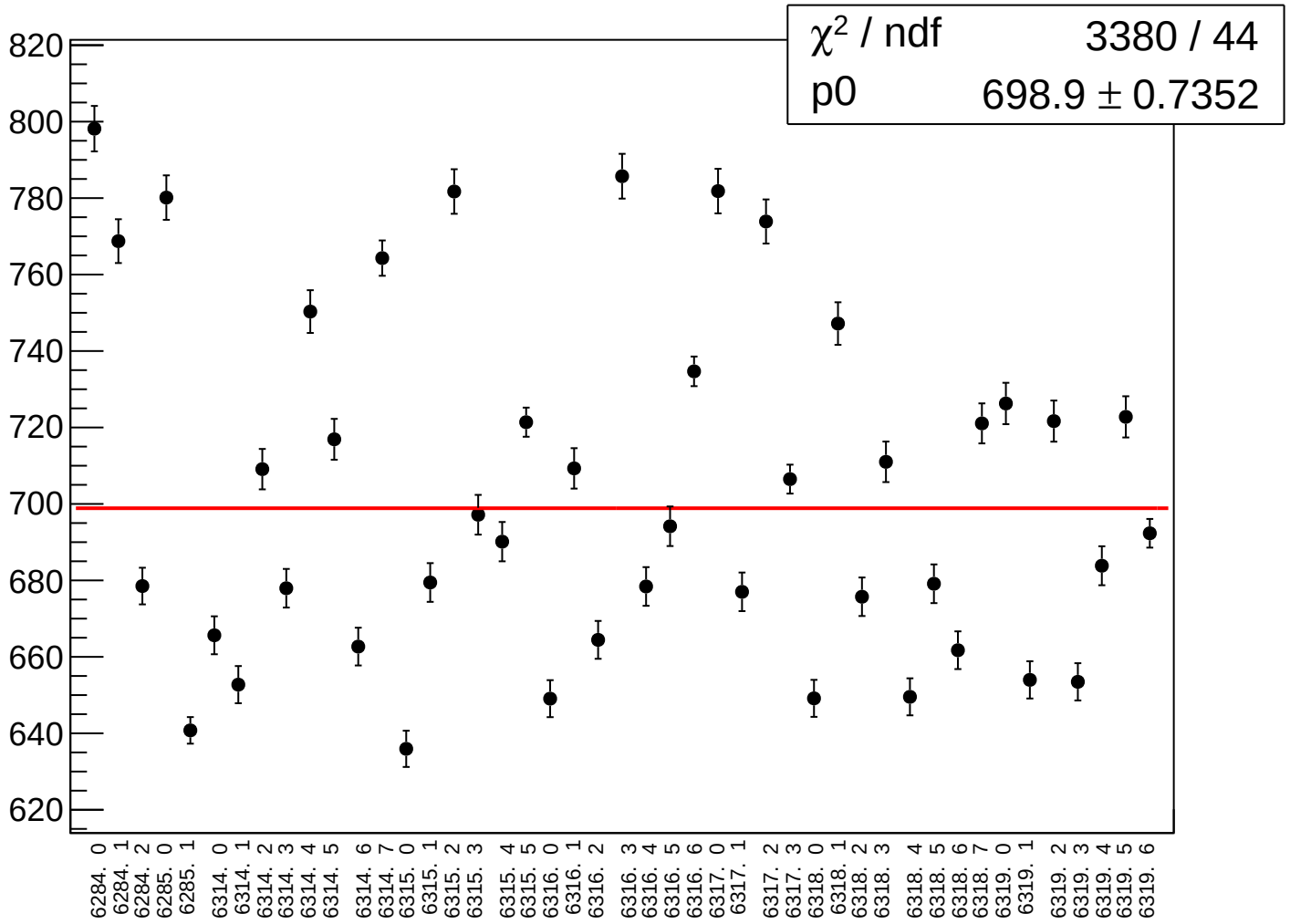
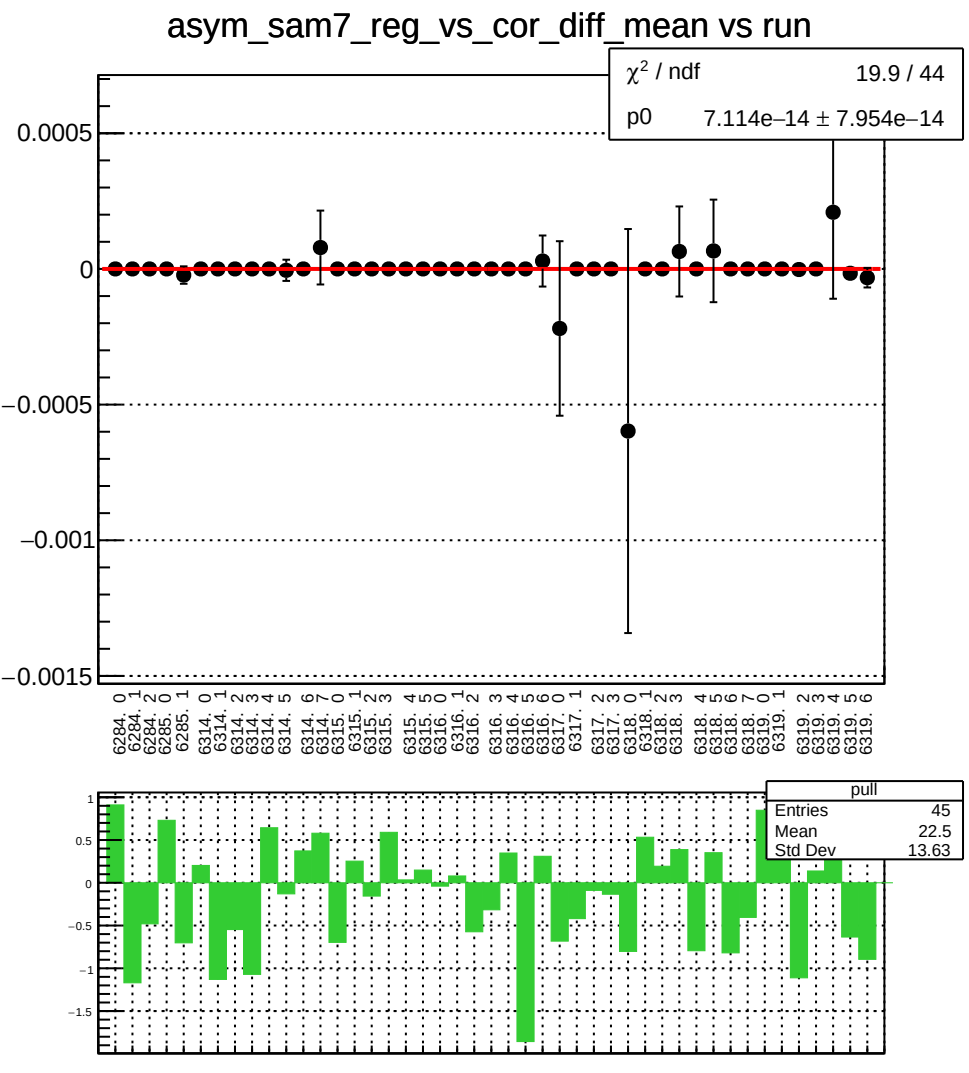
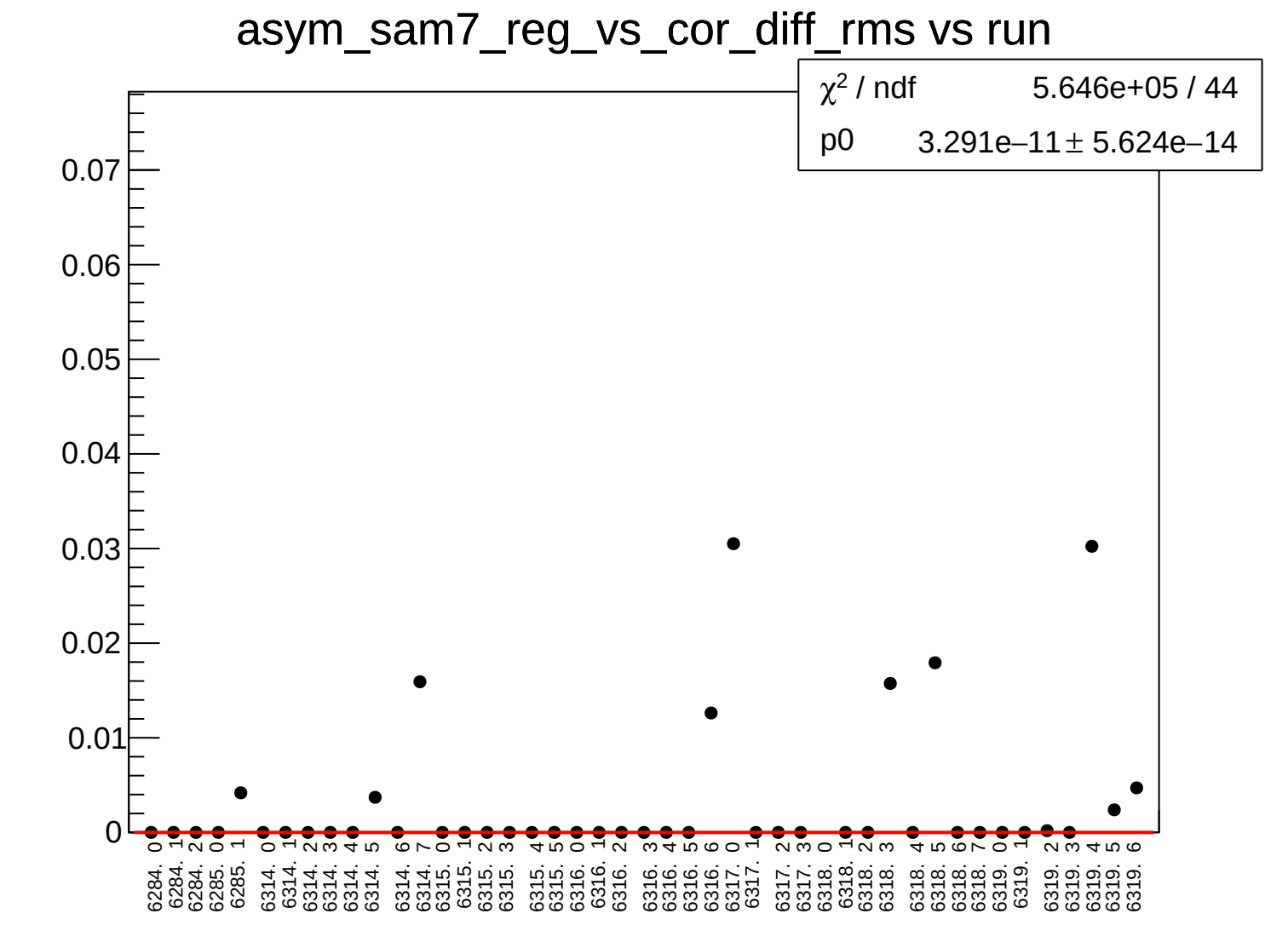
6319. 6

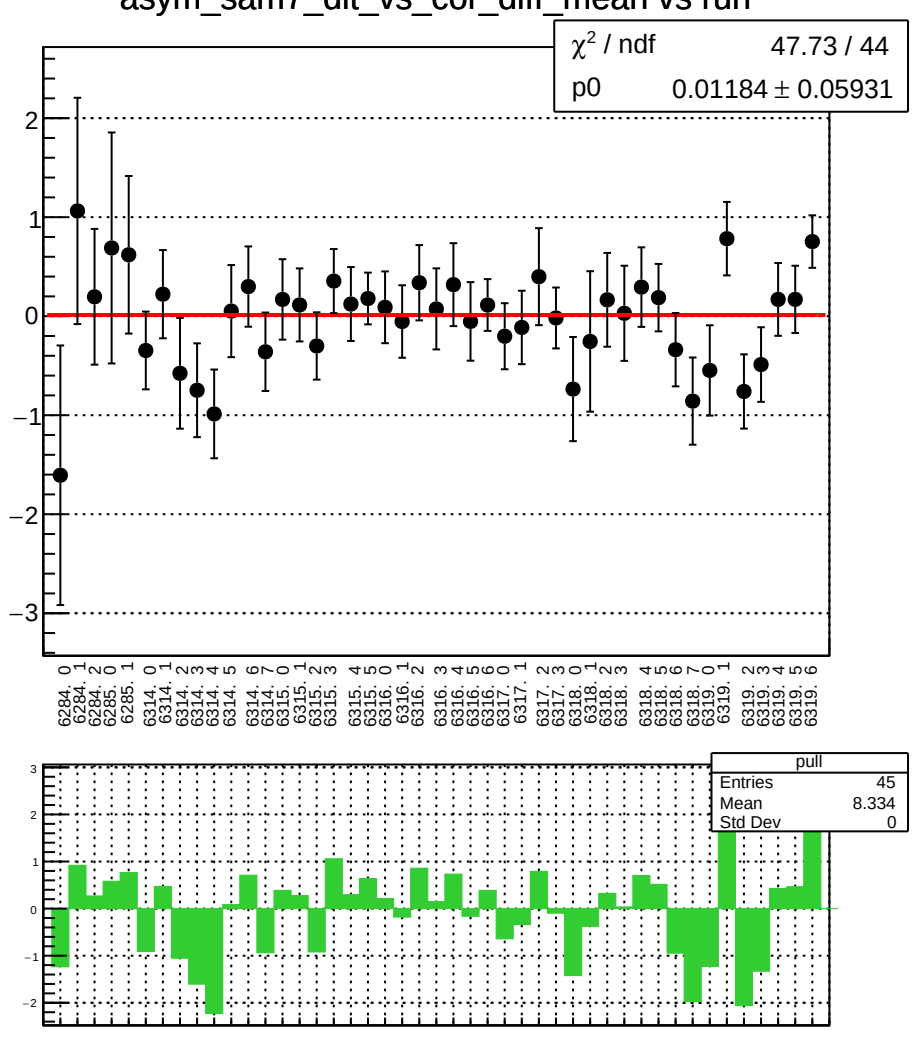

asym_sam7_mean vs run
χ² / ndf 40.64 / 44
p0 −51.54 ± 1040
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 174.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

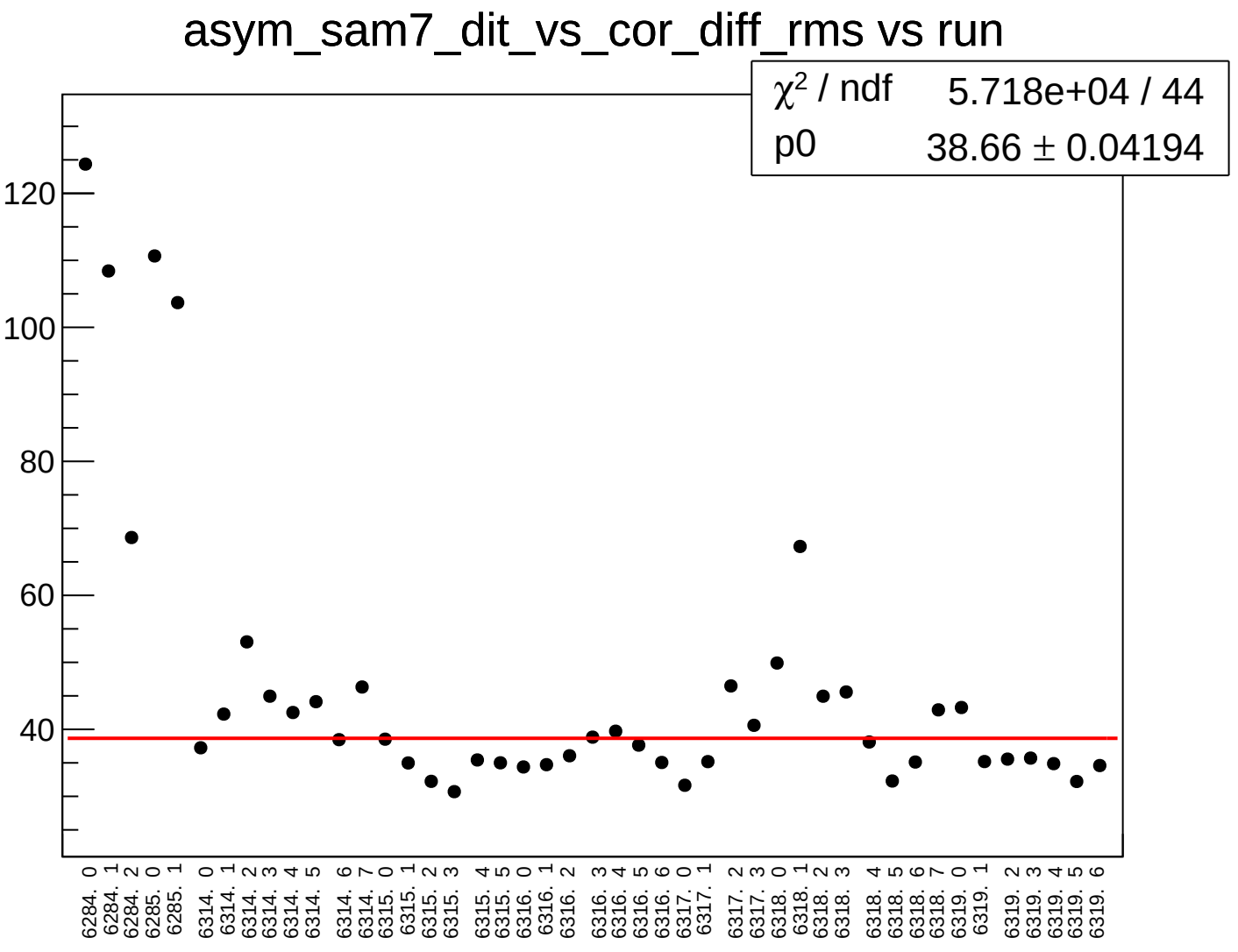

pull1D
Entries 45
Mean −0.007021
Std Dev 0.9503
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

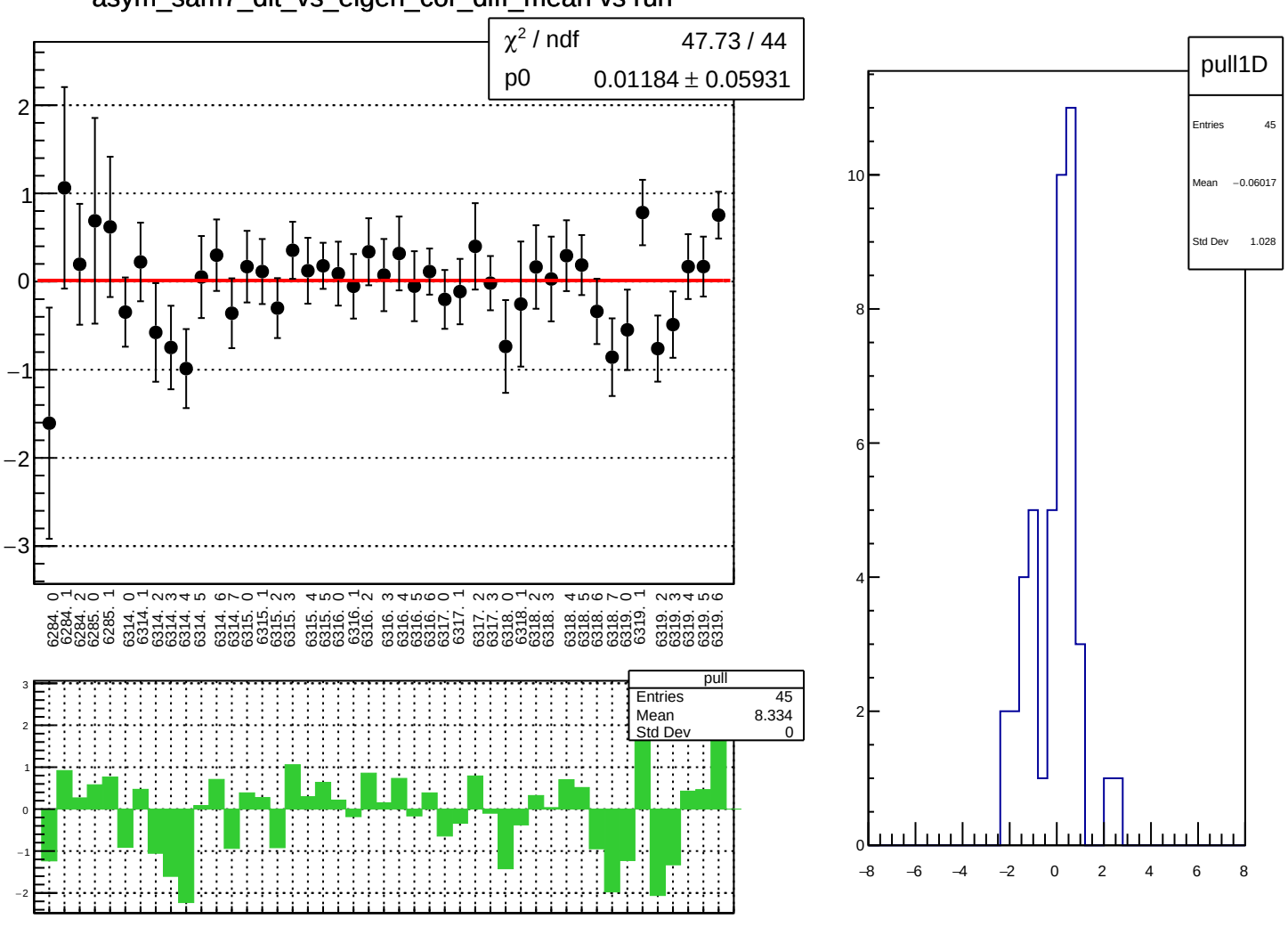

asym_sam7_rms vs run
χ² / ndf 3380 / 44
p0 698.9 ± 0.7352
820
800
780
760
740
720
700
680
660
640
620
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

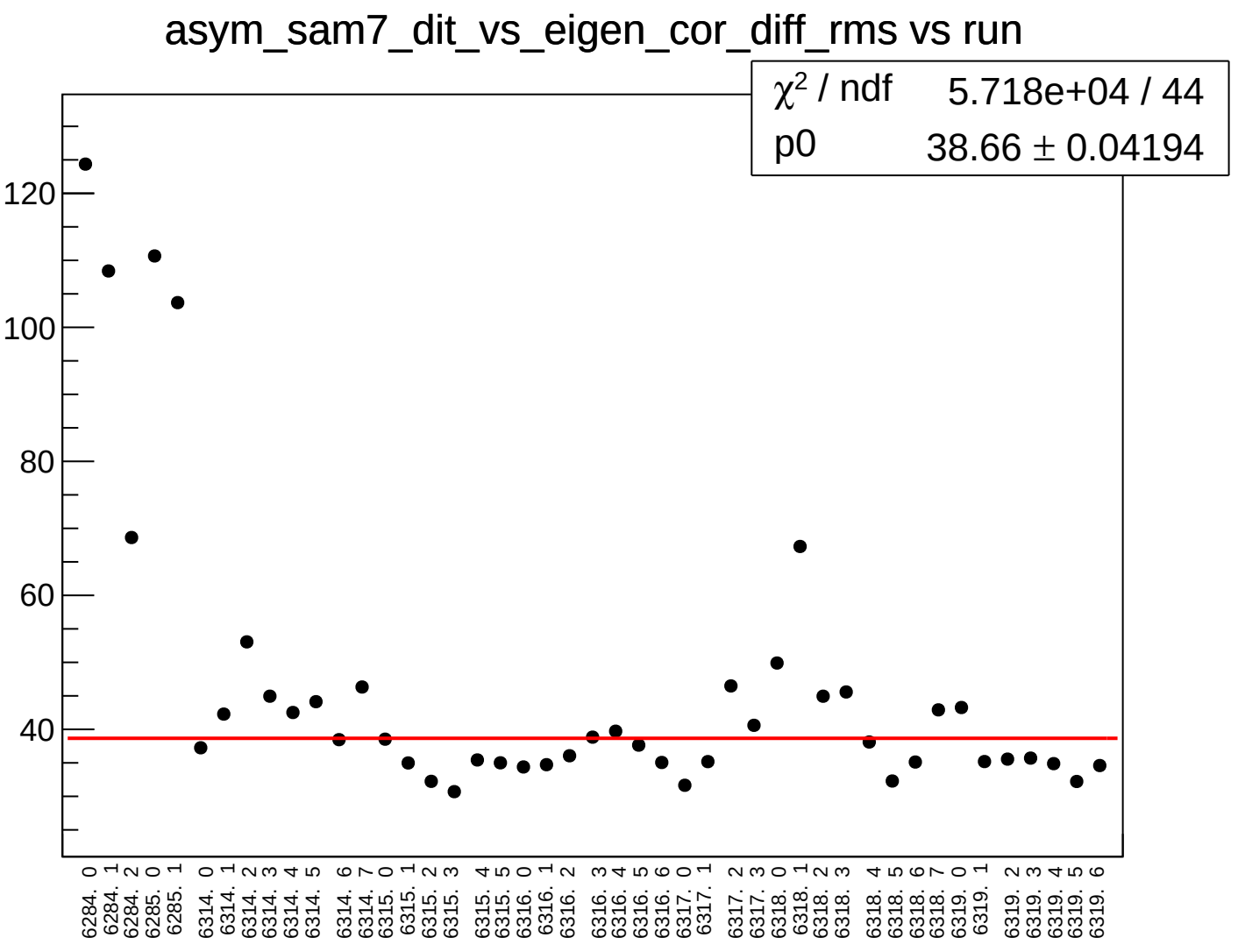

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 19.9 / 44
p0 7.114e−14 ± 7.954e−14
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 13.63
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.1439
Std Dev 0.6492
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

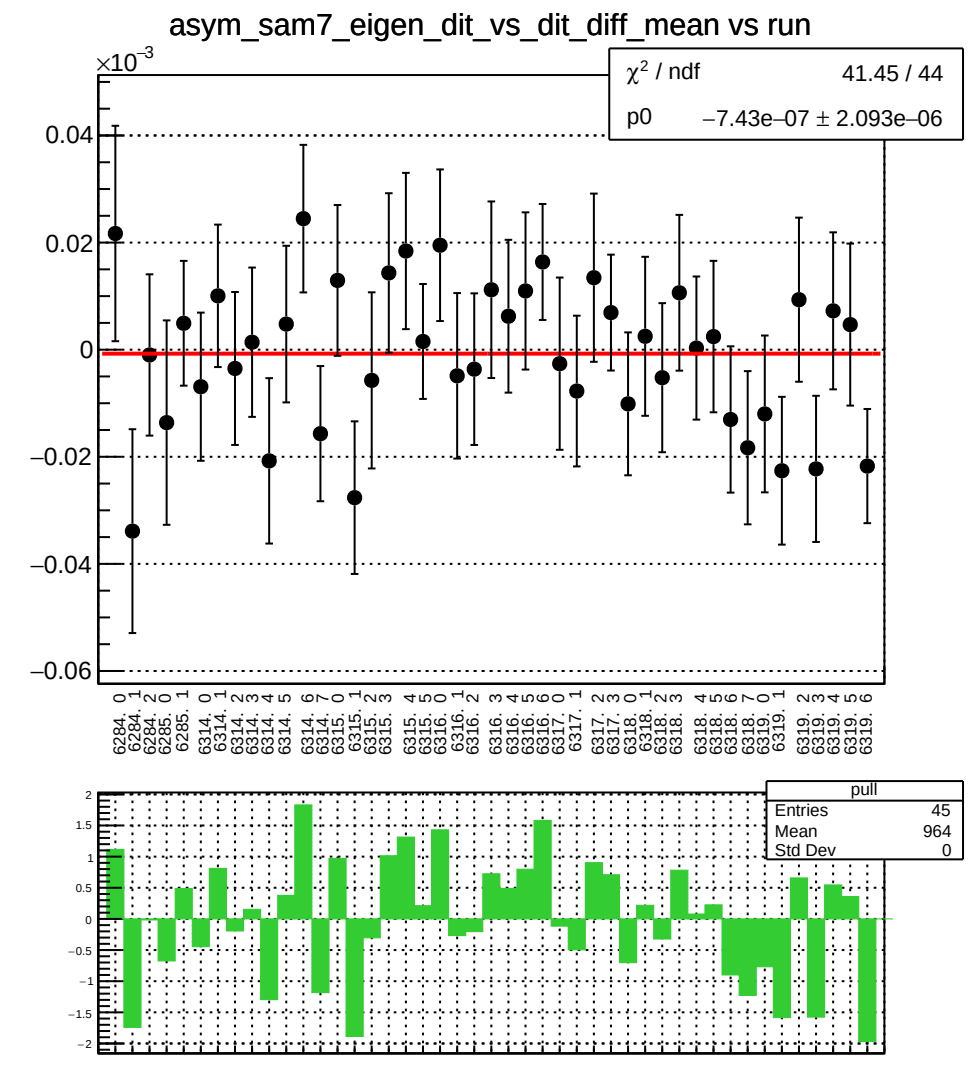

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 5.646e+05 / 44
p0 3.291e−11 ± 5.624e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

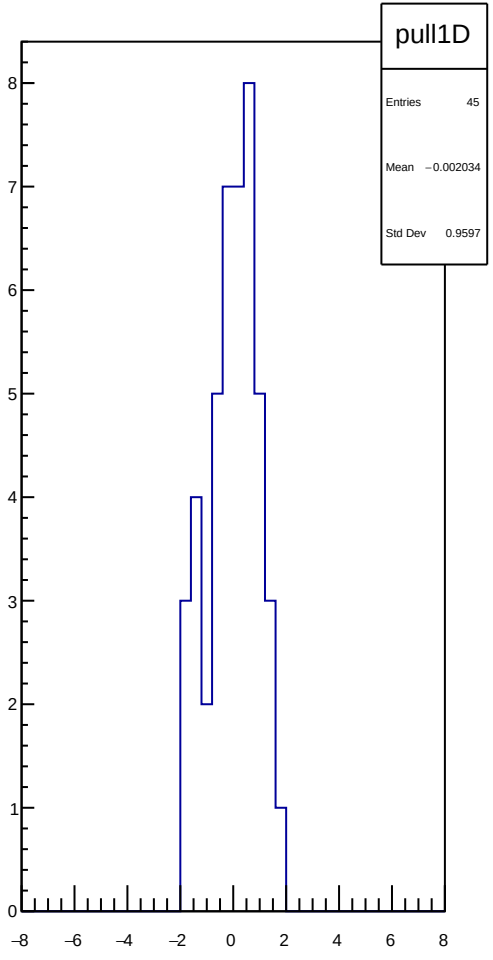

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 47.73 / 44
p0 0.01184 ± 0.05931
pull
Entries 45
Mean 8.334
Std Dev 0
pull1D
Entries 45
Mean −0.06017
Std Dev 1.028

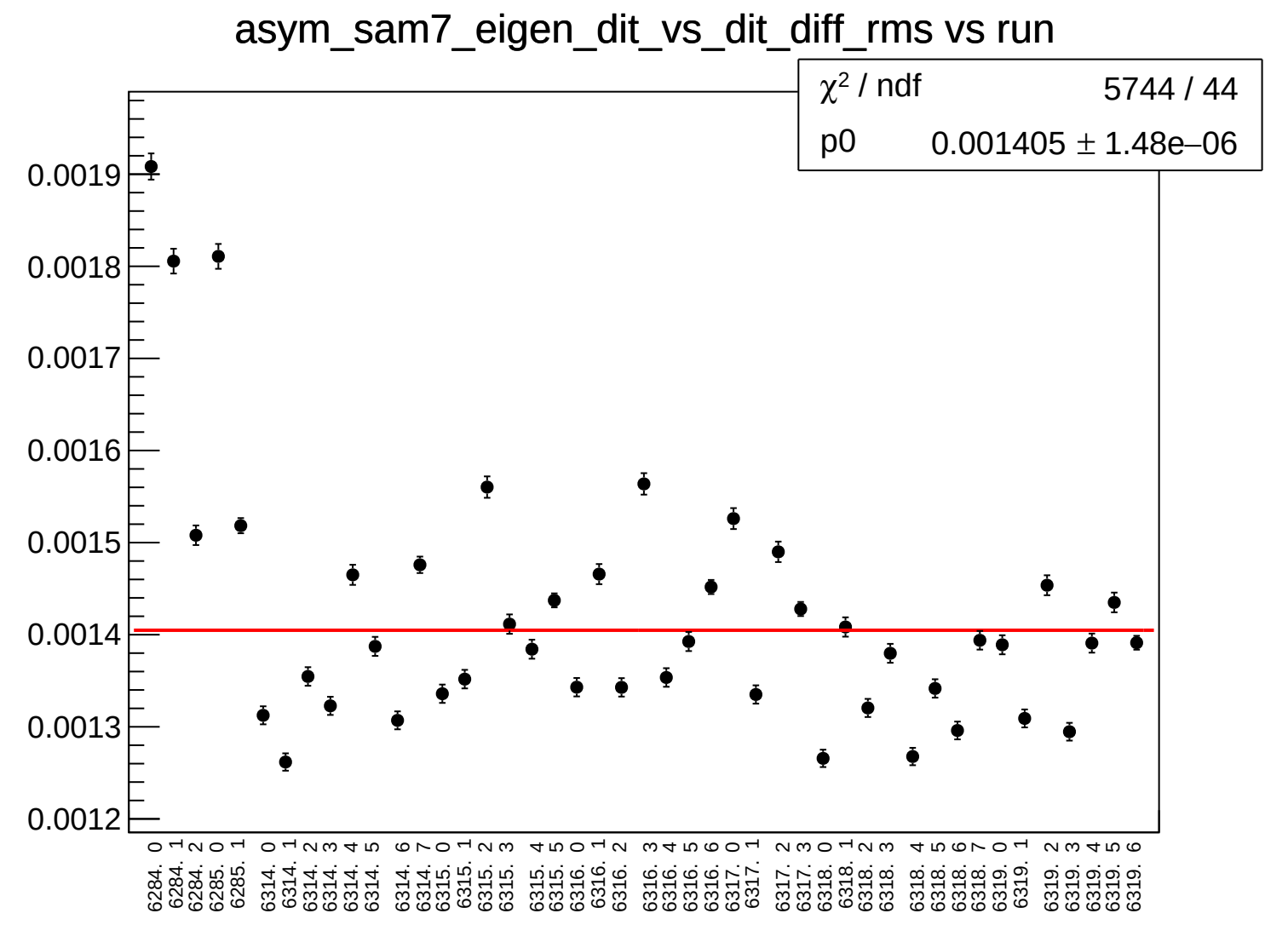

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.718e+04 / 44
p0 38.66 ± 0.04194
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

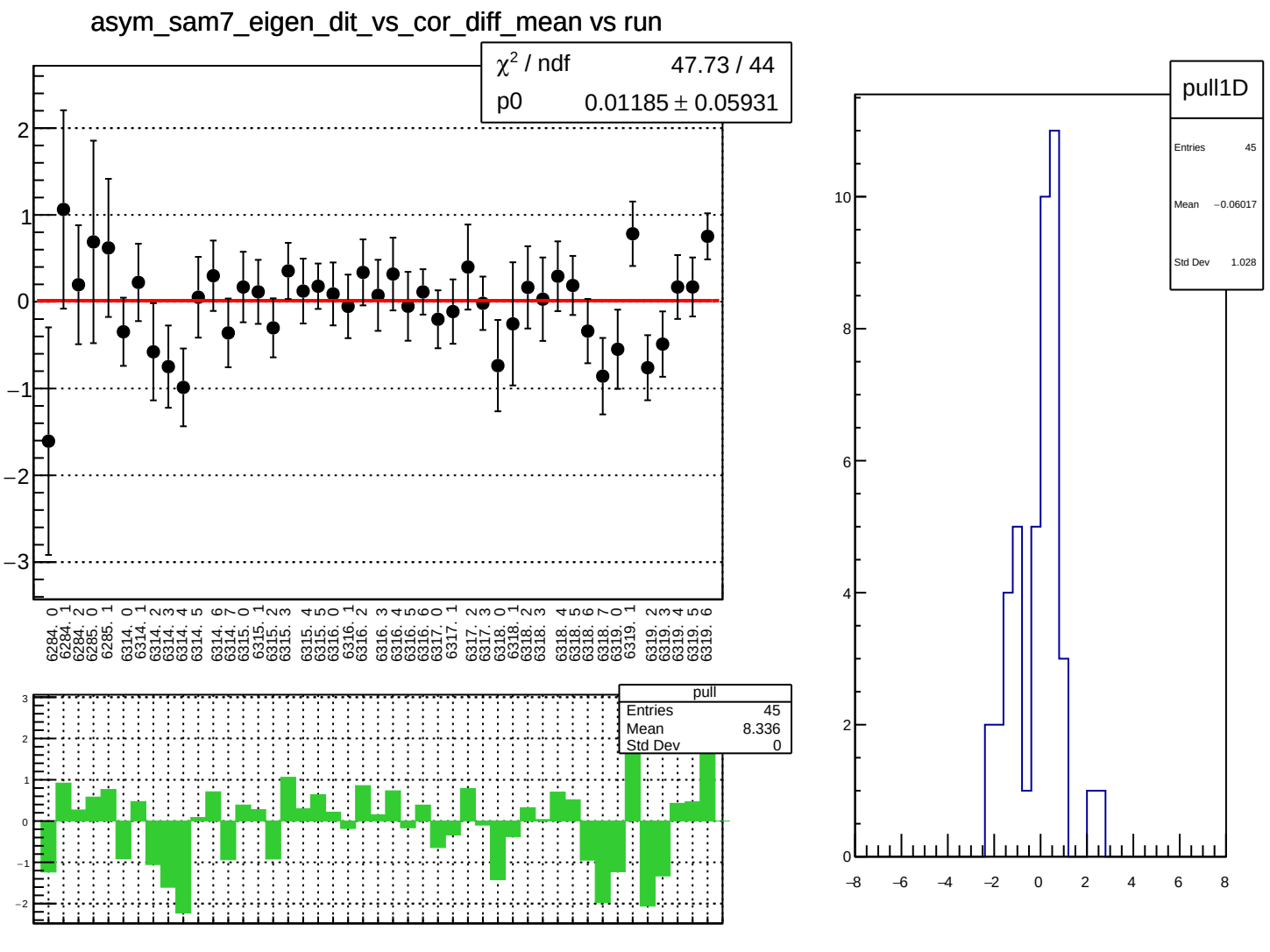

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.73 / 44
p0 0.01184 ± 0.05931
pull
Entries 45
Mean 8.334
Std Dev 0
pull1D
Entries 45
Mean −0.06017
Std Dev 1.028

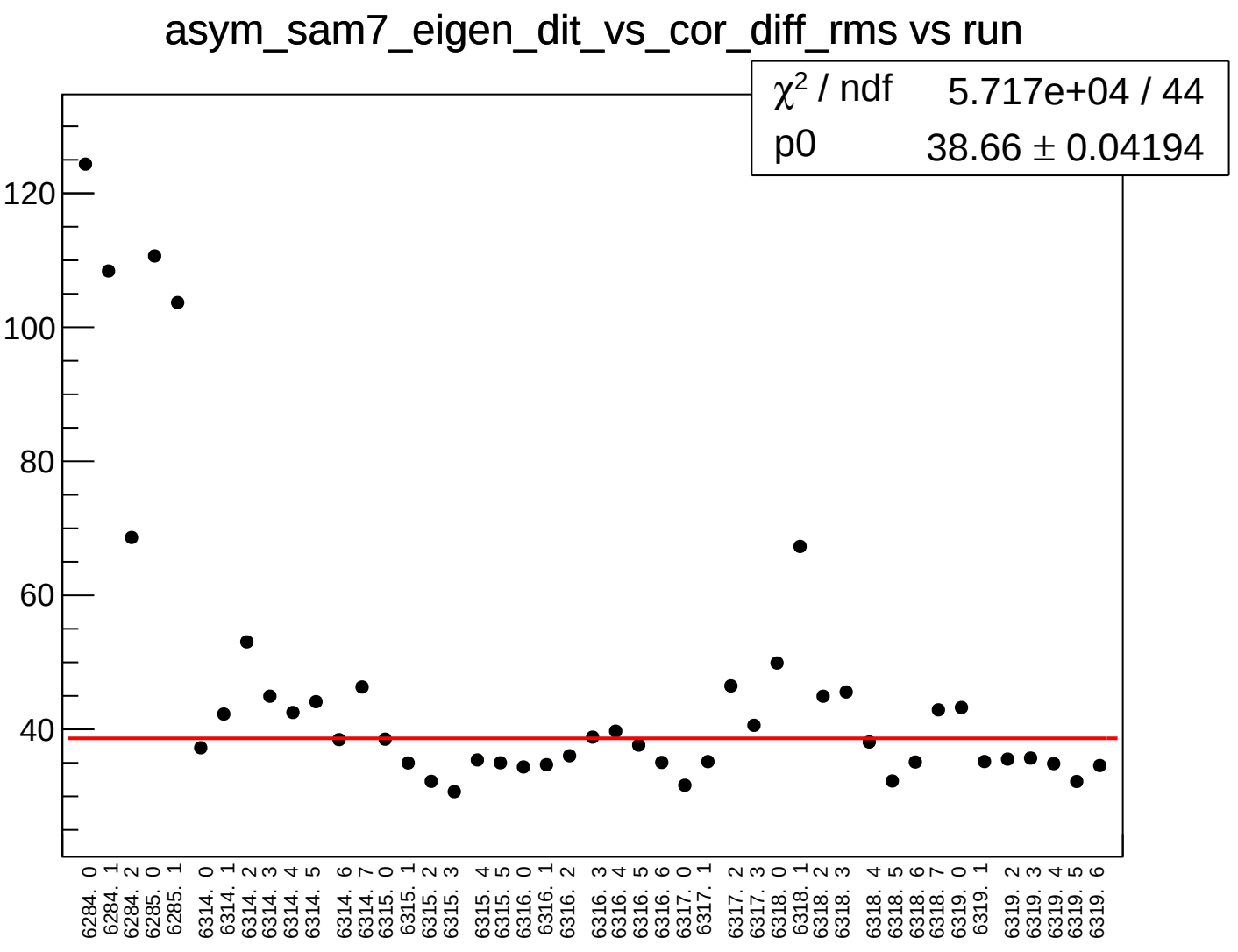

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.718e+04 / 44
p0 38.66 ± 0.04194
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

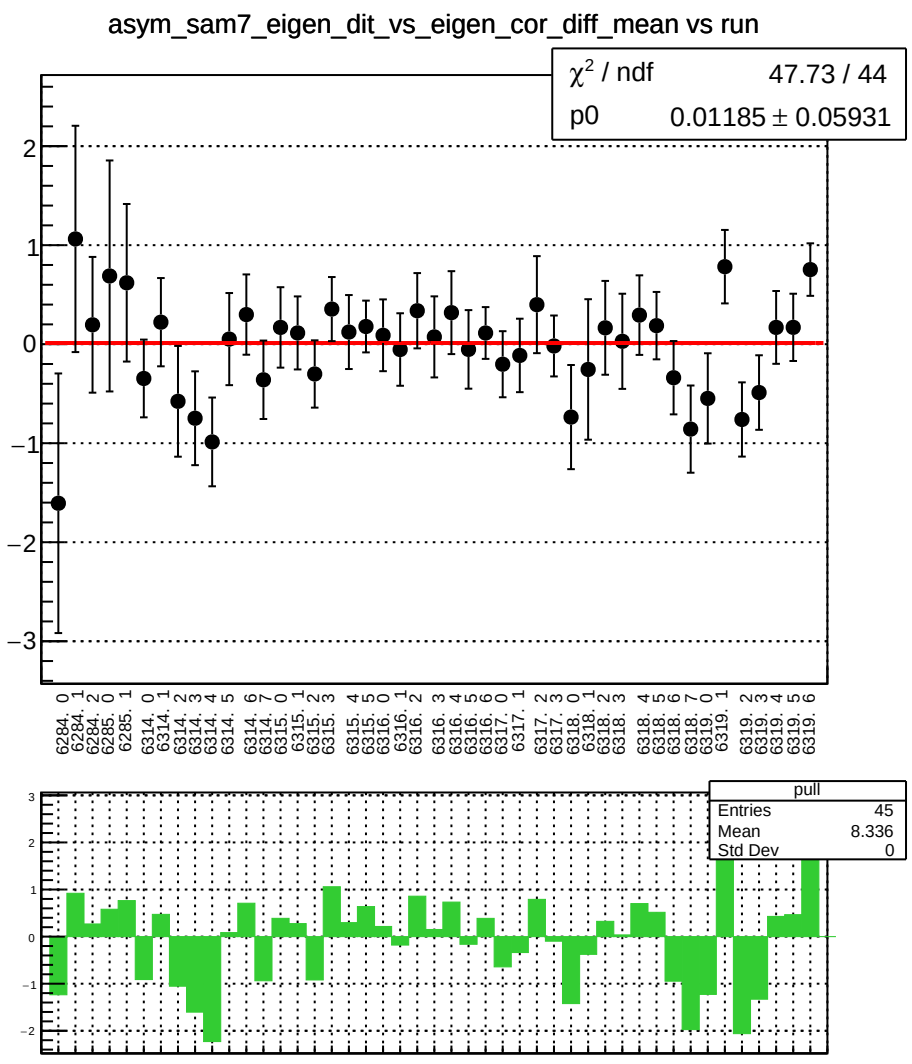

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.45 / 44
p0 −7.43e−07 ± 2.093e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 964
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

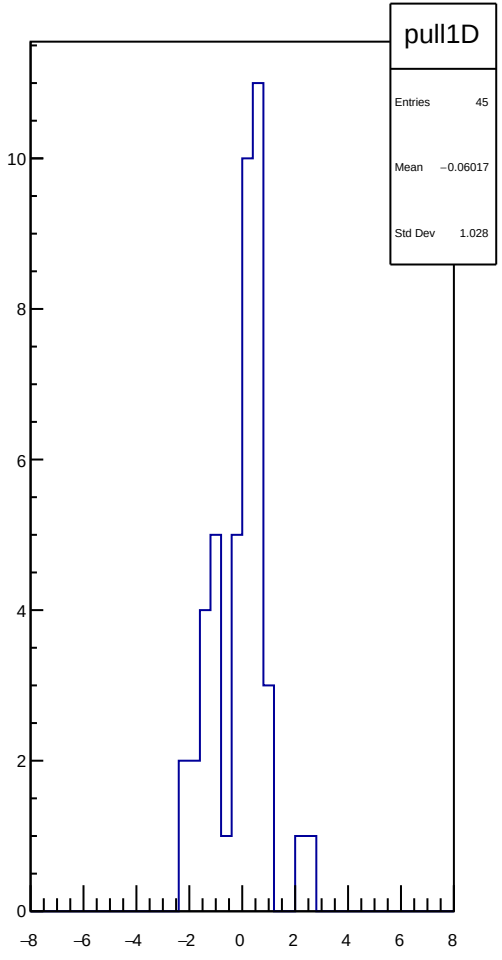

pull1D
Entries 45
Mean −0.002034
Std Dev 0.9597
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

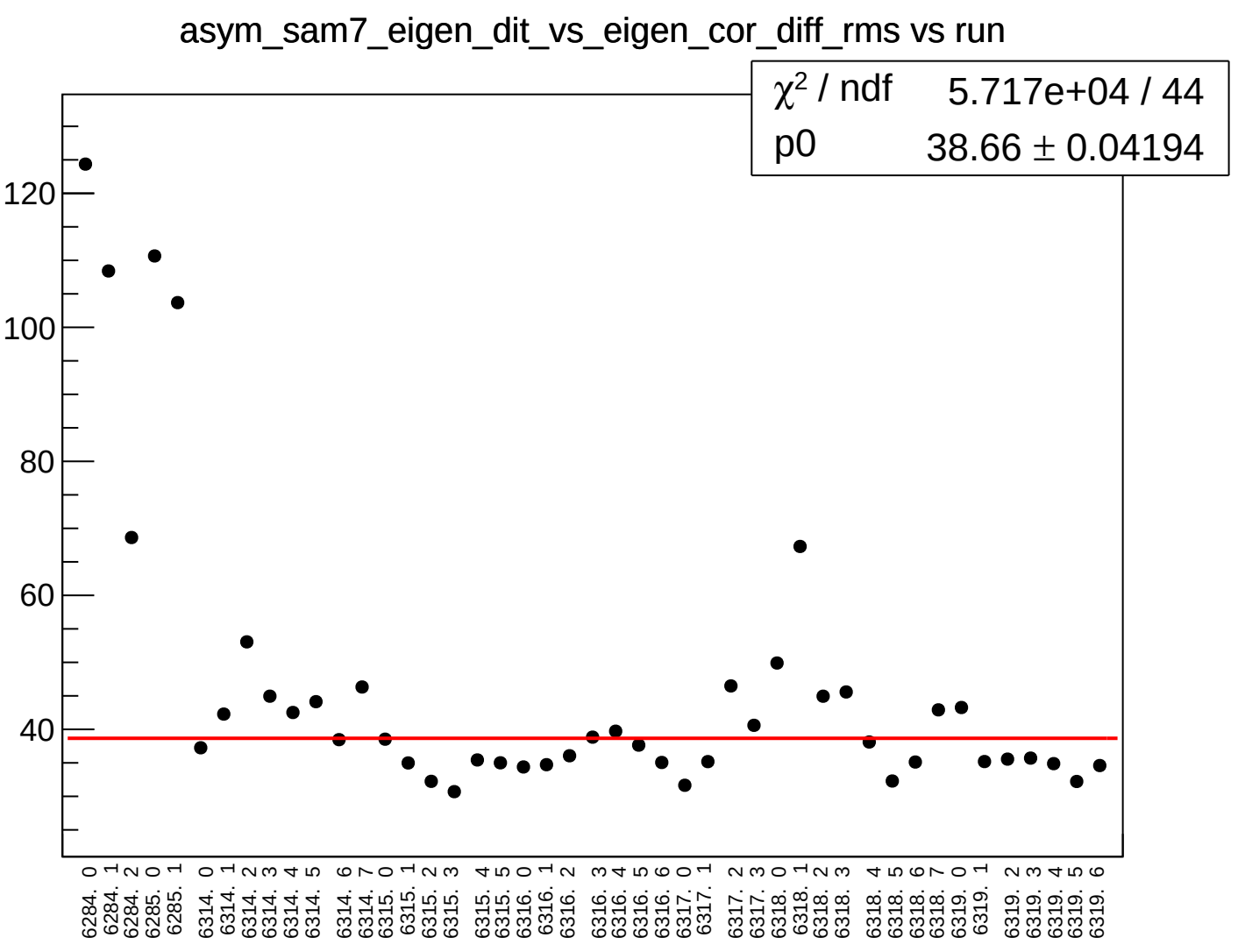

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5744 / 44
p0 0.001405 ± 1.48e–06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

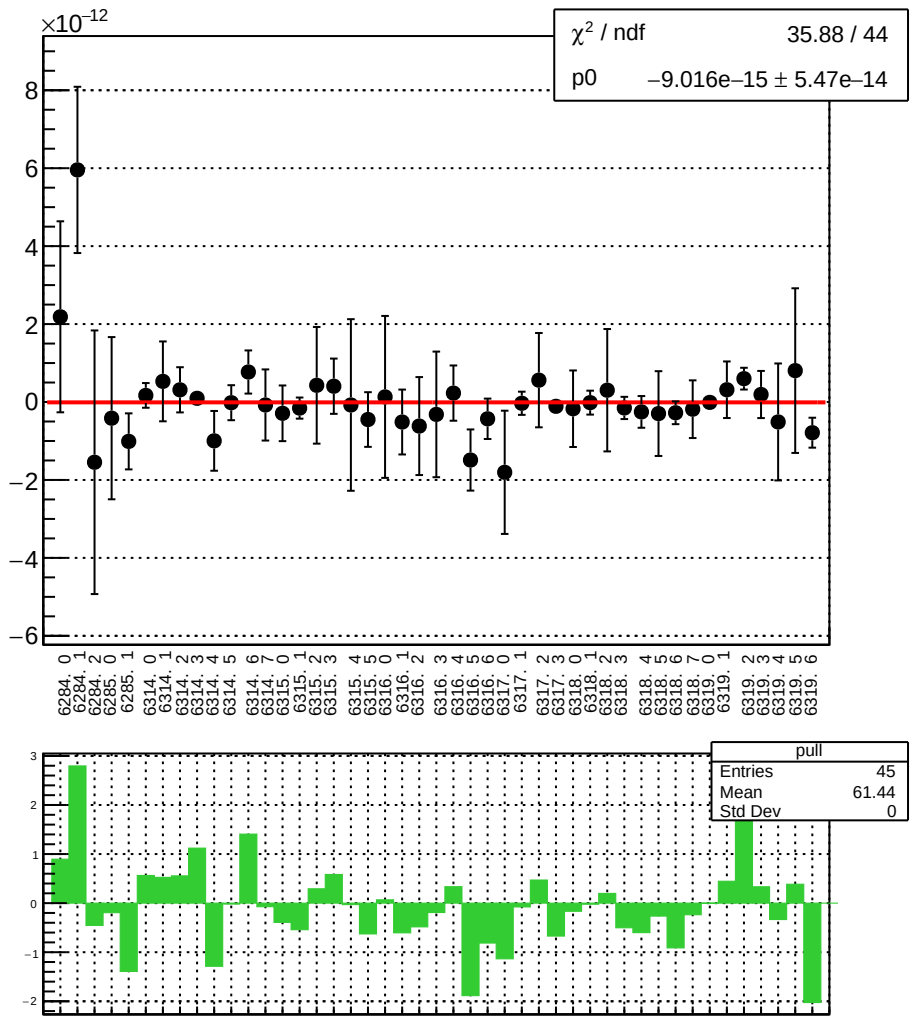

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.73 / 44
p0 0.01185 ± 0.05931
pull
Entries 45
Mean 8.336
Std Dev 0
pull1D
Entries 45
Mean −0.06017
Std Dev 1.028

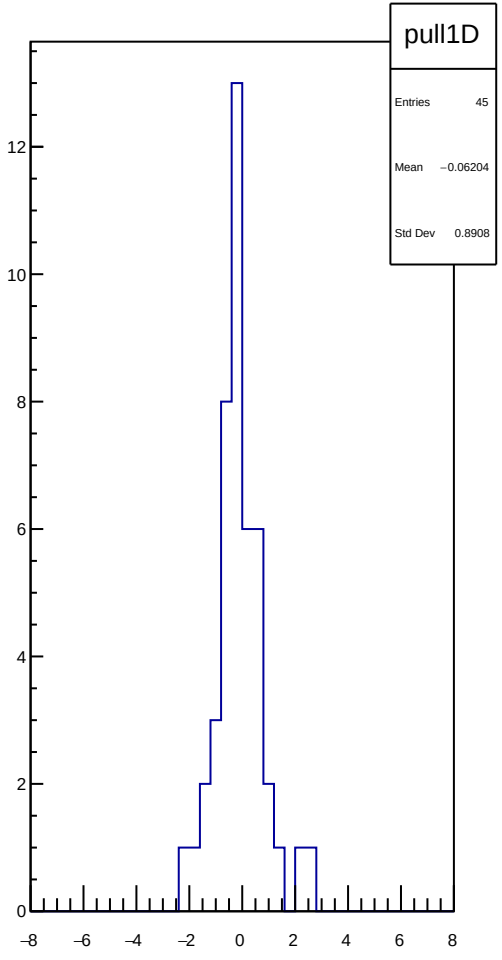

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.717e+04 / 44
p0 38.66 ± 0.04194
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

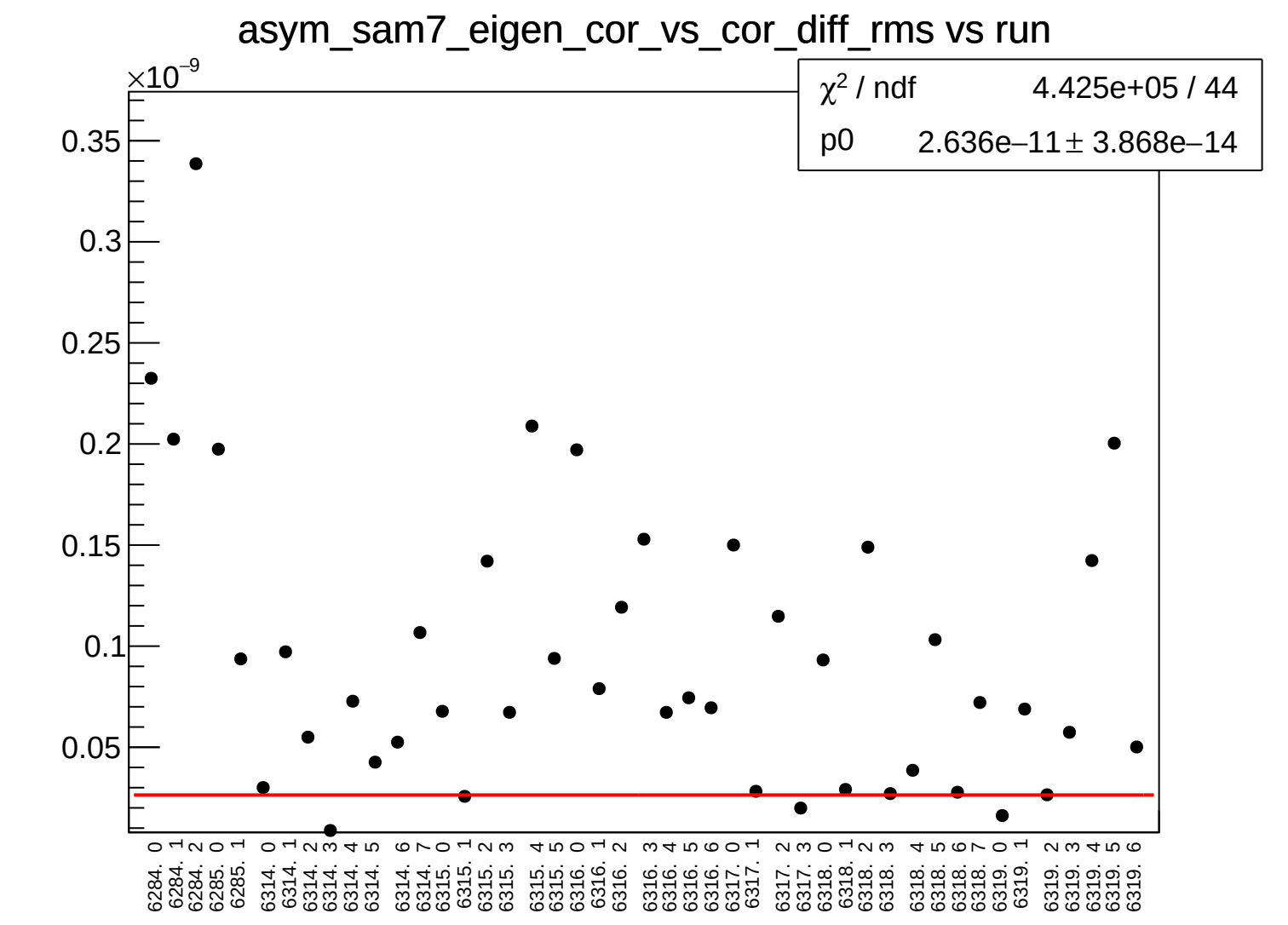

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.73 / 44
p0 0.01185 ± 0.05931
pull
Entries 45
Mean 8.336
Std Dev 0


pull1D
Entries 45
Mean −0.06017
Std Dev 1.028


asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.717e+04 / 44
p0 38.66 ± 0.04194
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.88 / 44
p0 −9.016e−15 ± 5.47e−14
pull
Entries 45
Mean 61.44
Std Dev 0


pull1D
Entries 45
Mean −0.06204
Std Dev 0.8908


asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.425e+05 / 44
p0 2.636e−11 ± 3.868e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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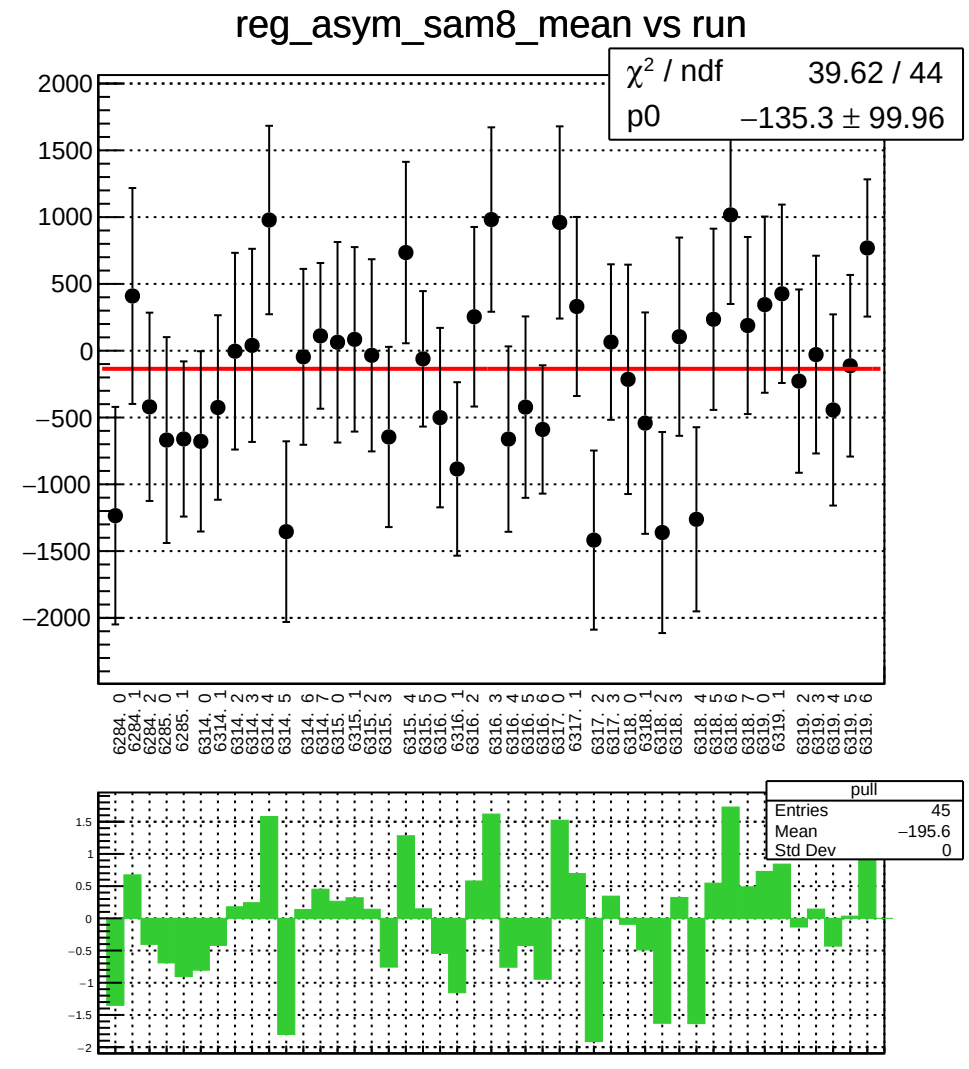
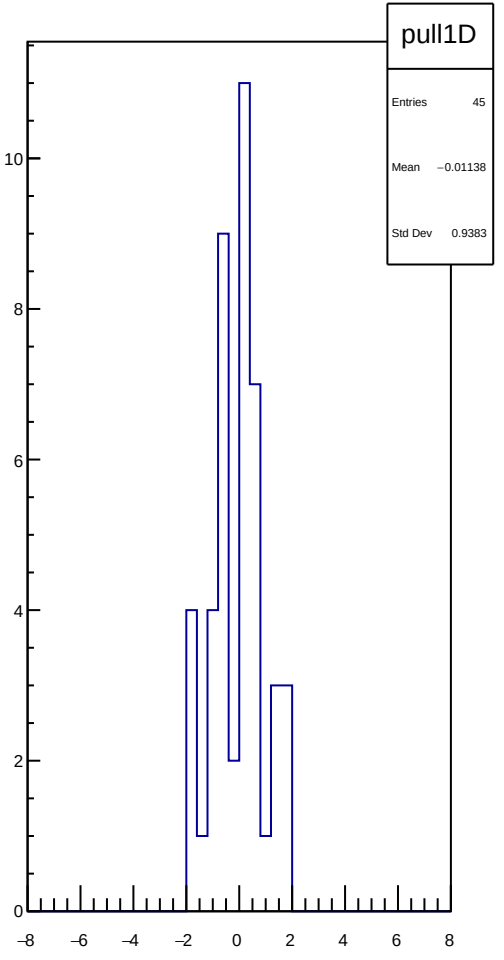
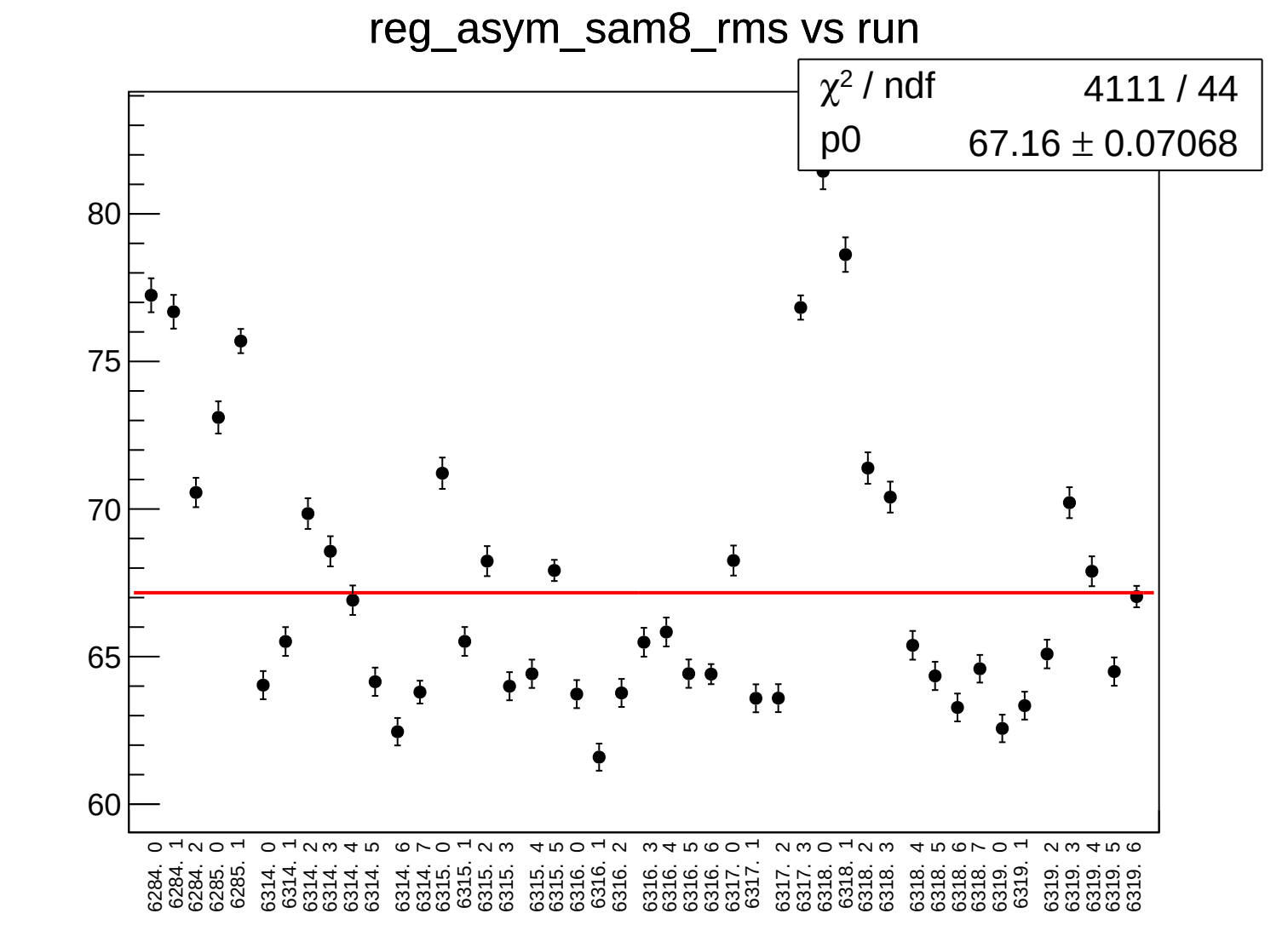
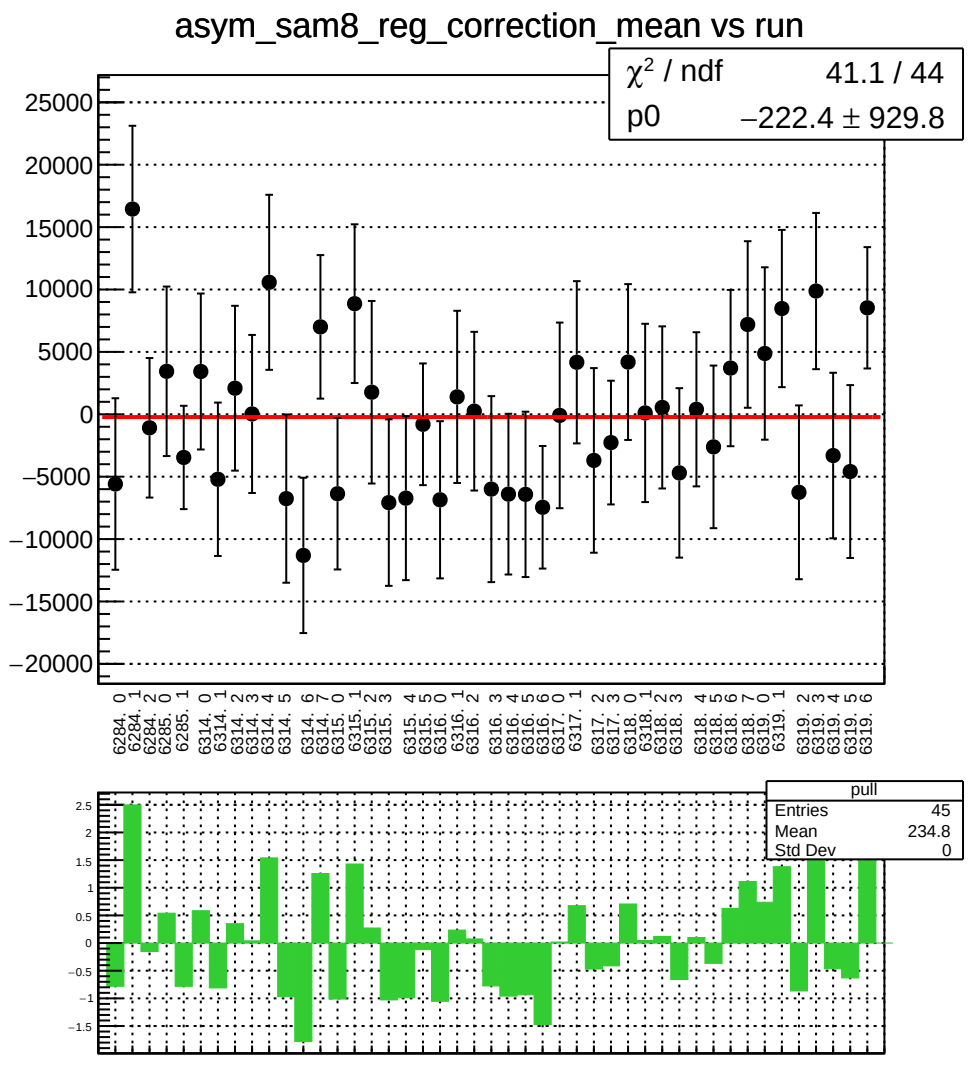
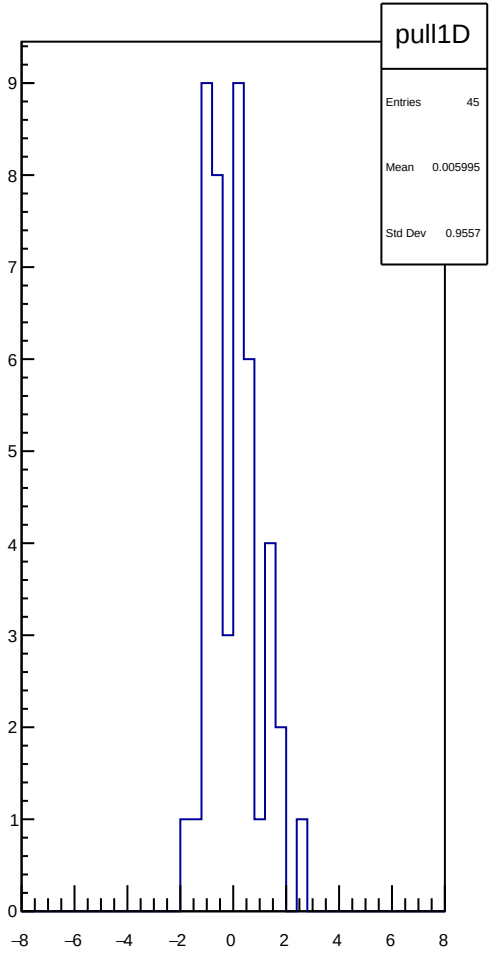
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

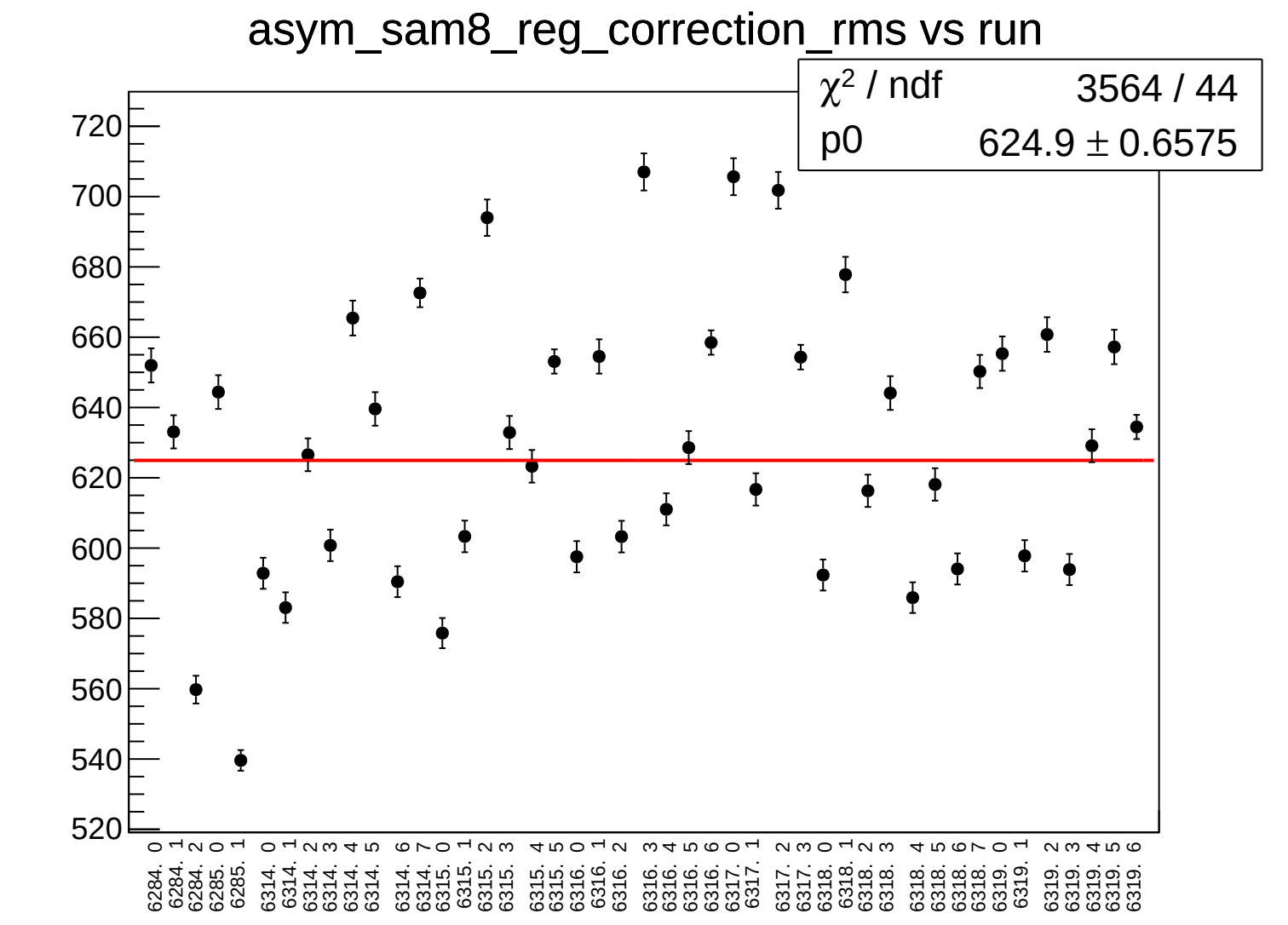

reg_asym_sam8_mean vs run
χ² / ndf 39.62 / 44
p0 −135.3 ± 99.96
pull
Entries 45
Mean −195.6
Std Dev 0

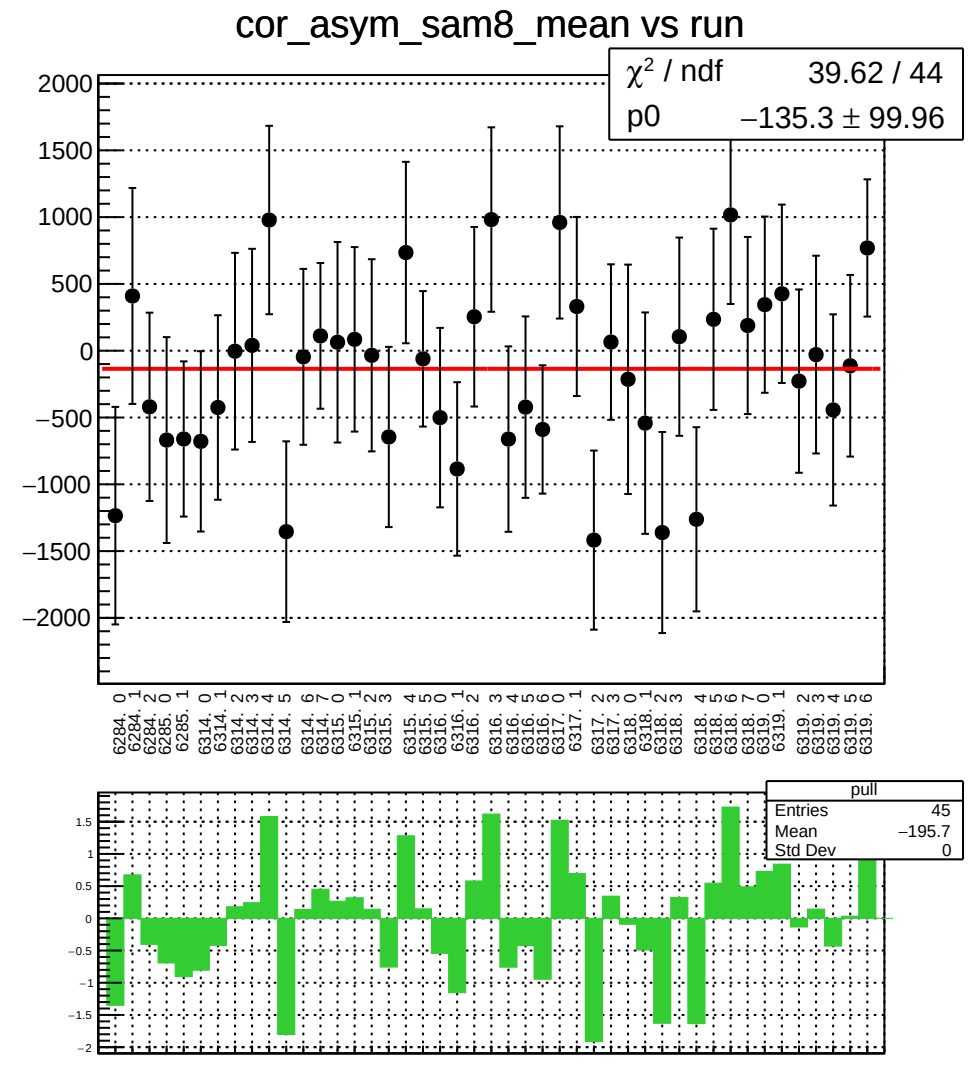

pull1D
Entries 45
Mean −0.01138
Std Dev 0.9383

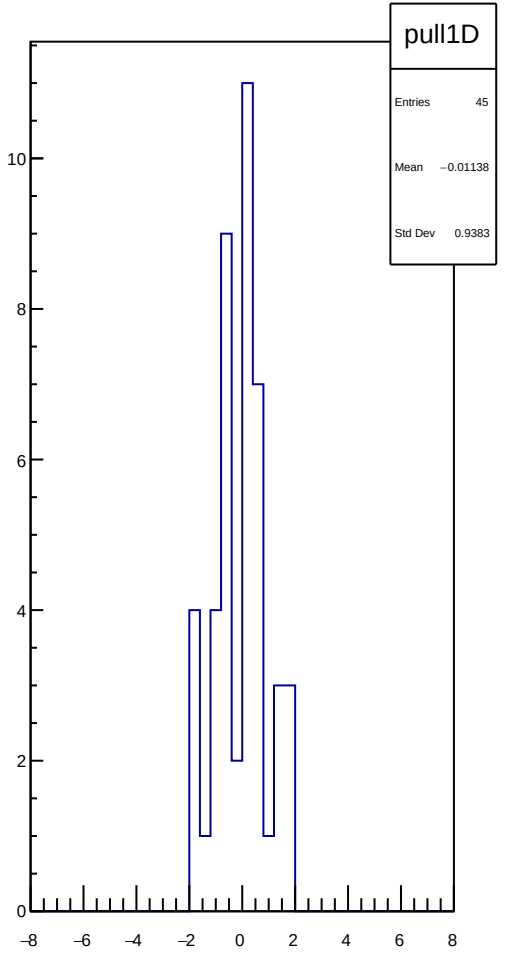

reg_asym_sam8_rms vs run
χ² / ndf 4111 / 44
p0 67.16 ± 0.07068
80
75
70
65
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

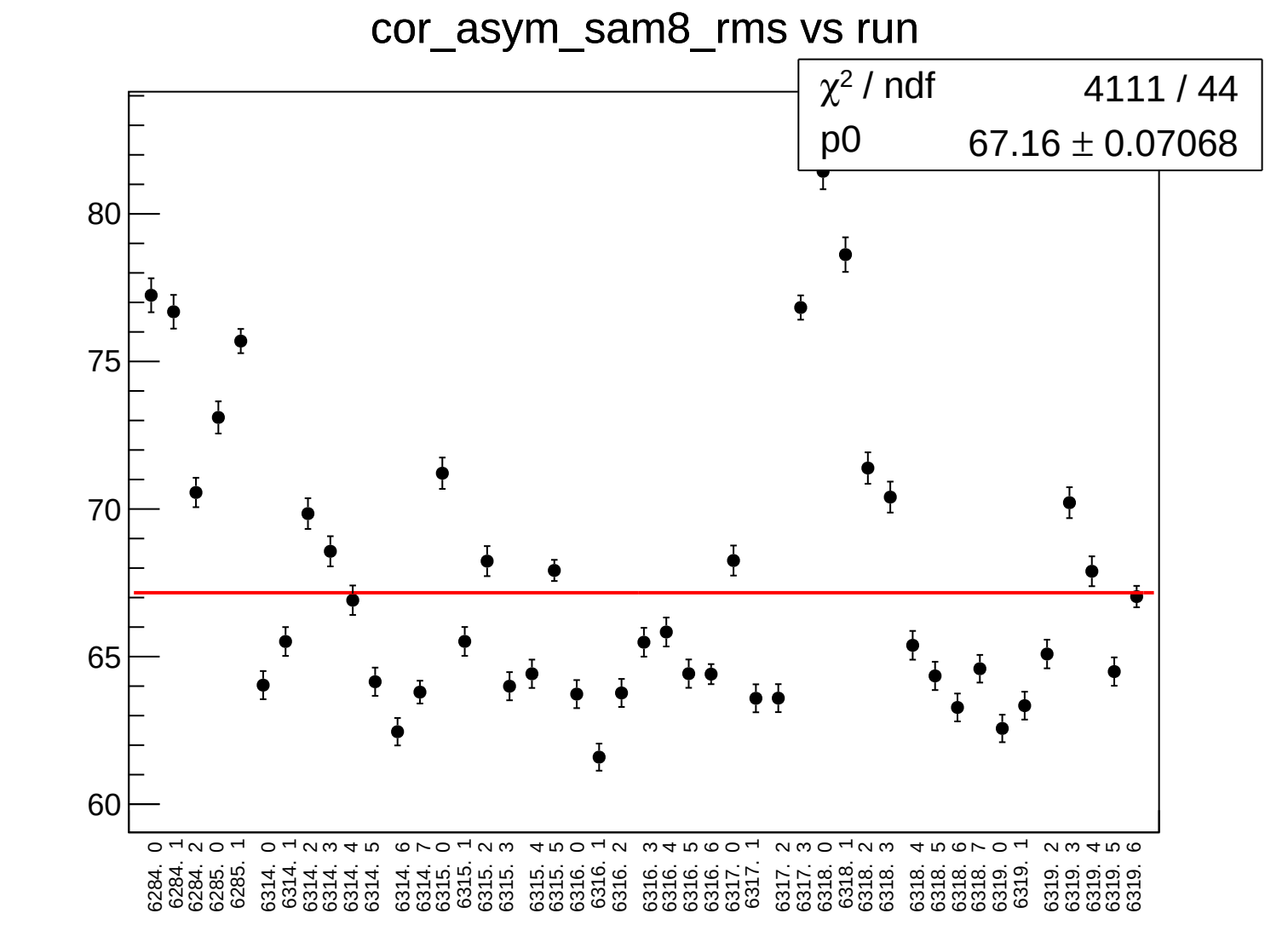

asym_sam8_reg_correction_mean vs run
χ² / ndf 41.1 / 44
p0 −222.4 ± 929.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 234.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

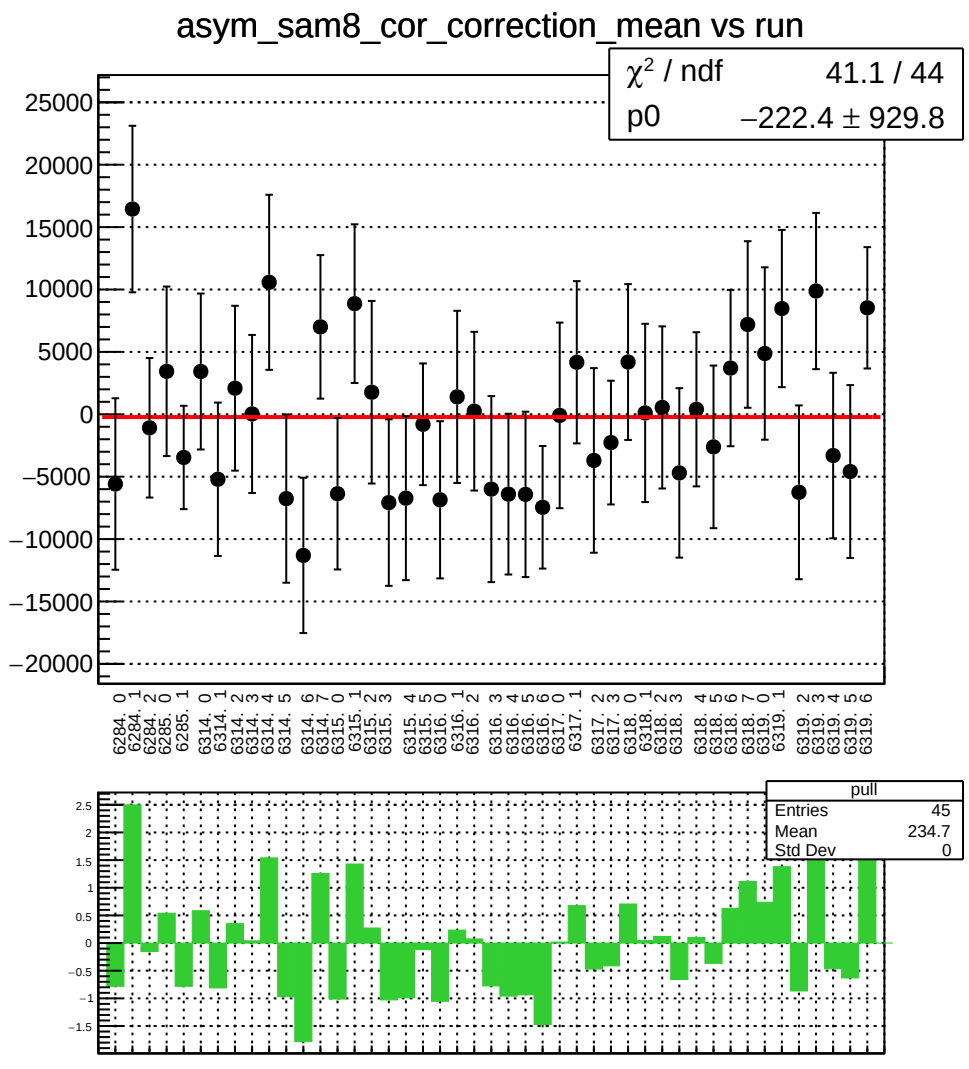

pull1D
Entries 45
Mean 0.005995
Std Dev 0.9557
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

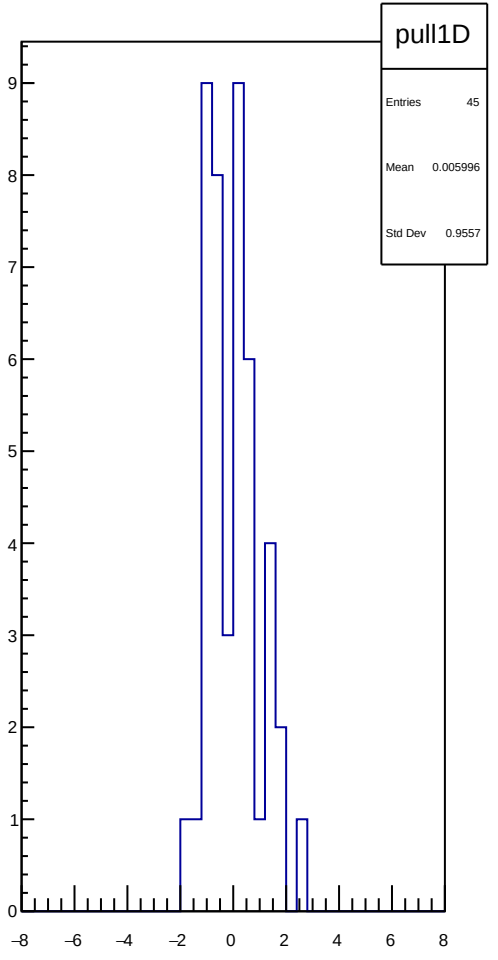

asym_sam8_reg_correction_rms vs run
χ² / ndf 3564 / 44
p0 624.9 ± 0.6575
720
700
680
660
640
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

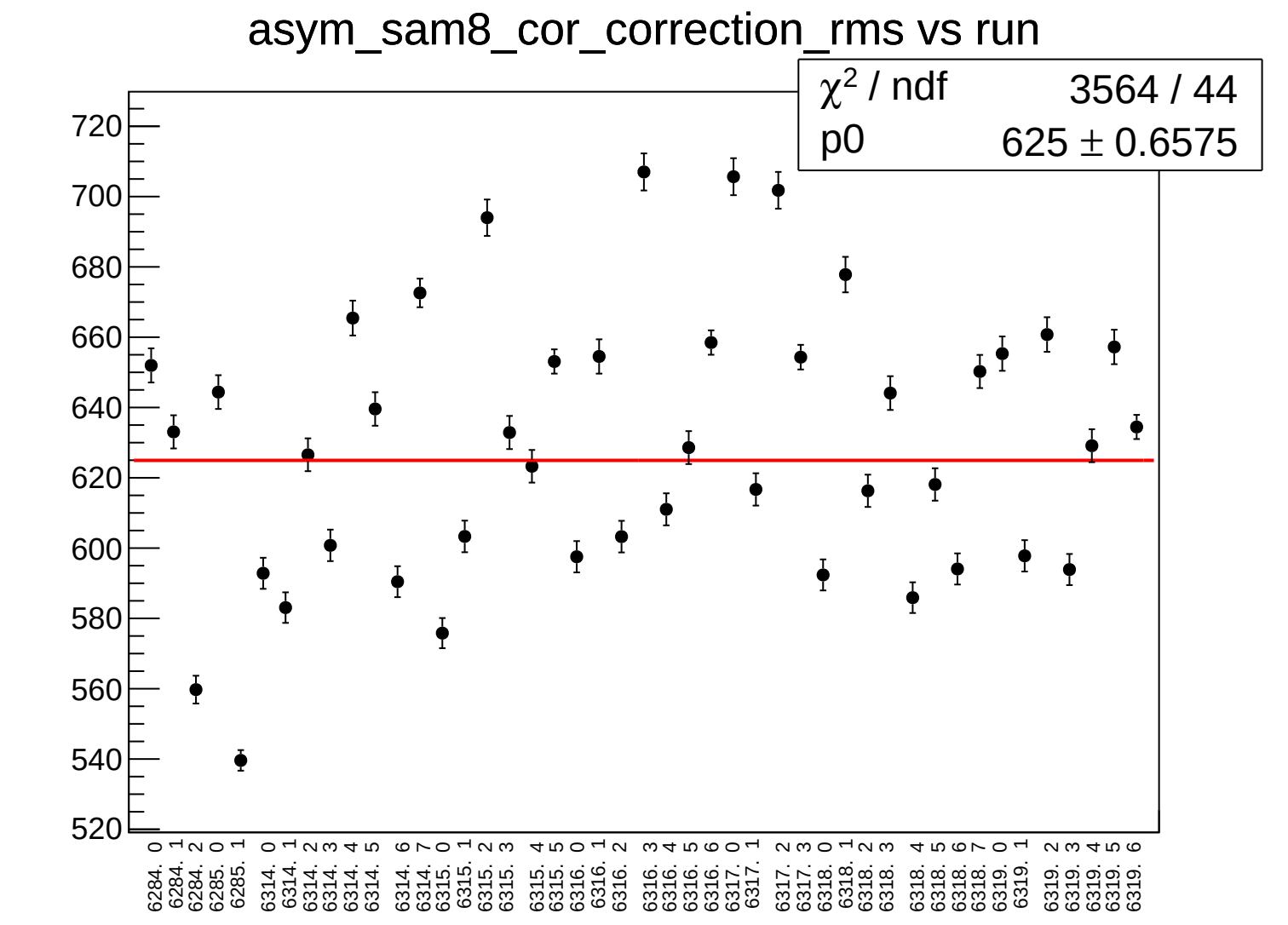

cor_asym_sam8_mean vs run
χ² / ndf 39.62 / 44
p0 −135.3 ± 99.96
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −195.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

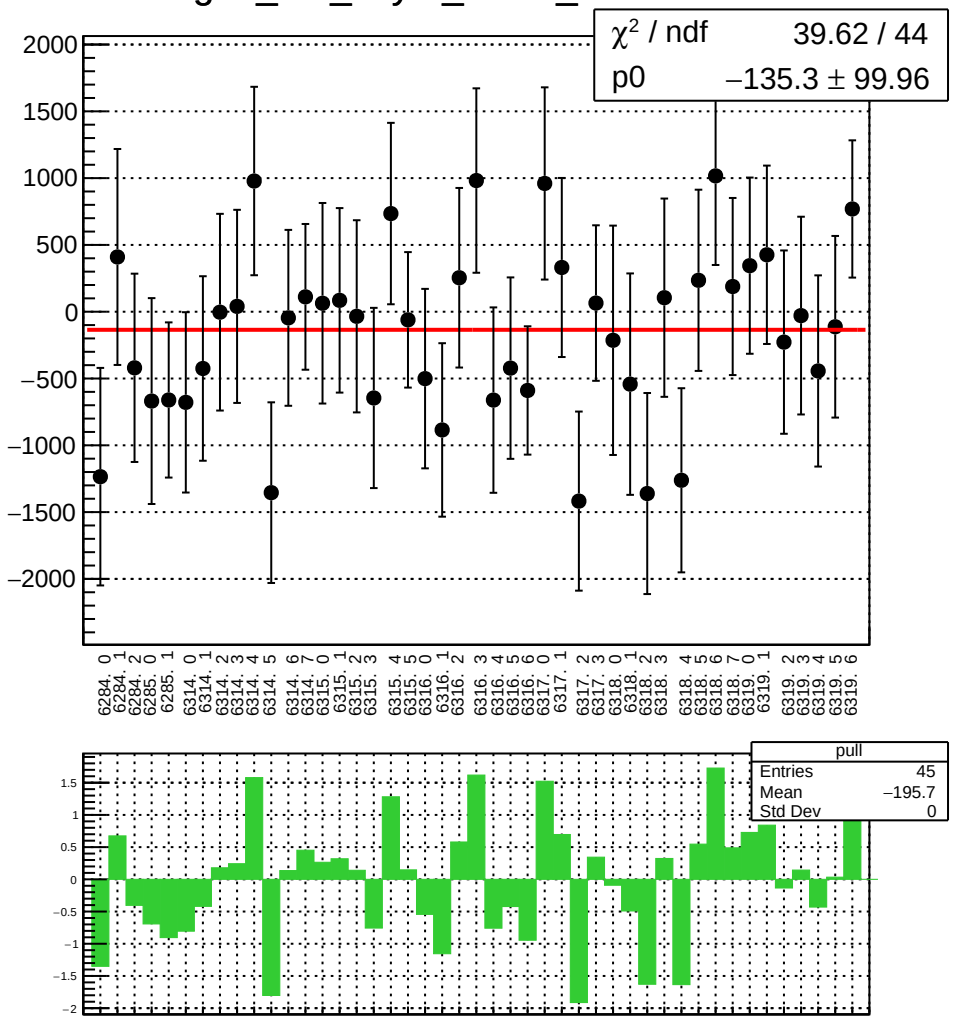

pull1D
Entries 45
Mean −0.01138
Std Dev 0.9383
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

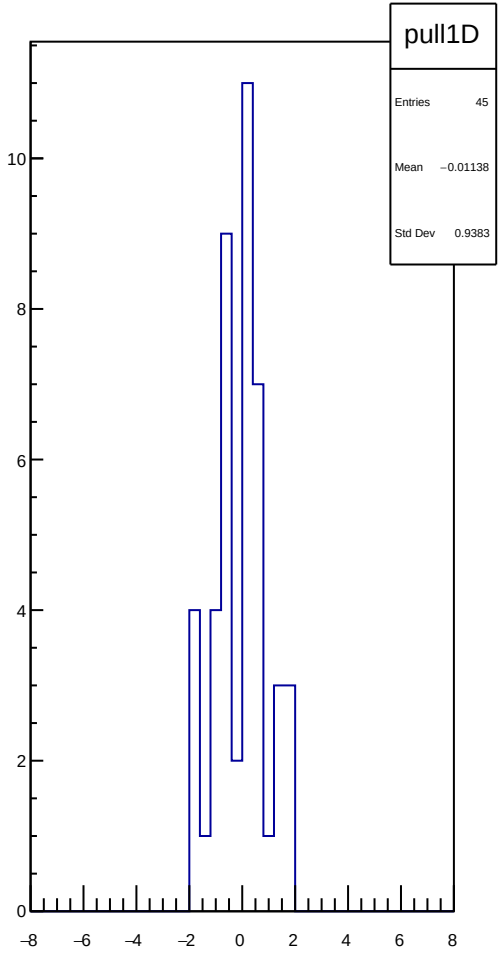

cor_asym_sam8_rms vs run
χ² / ndf 4111 / 44
p0 67.16 ± 0.07068
80
75
70
65
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

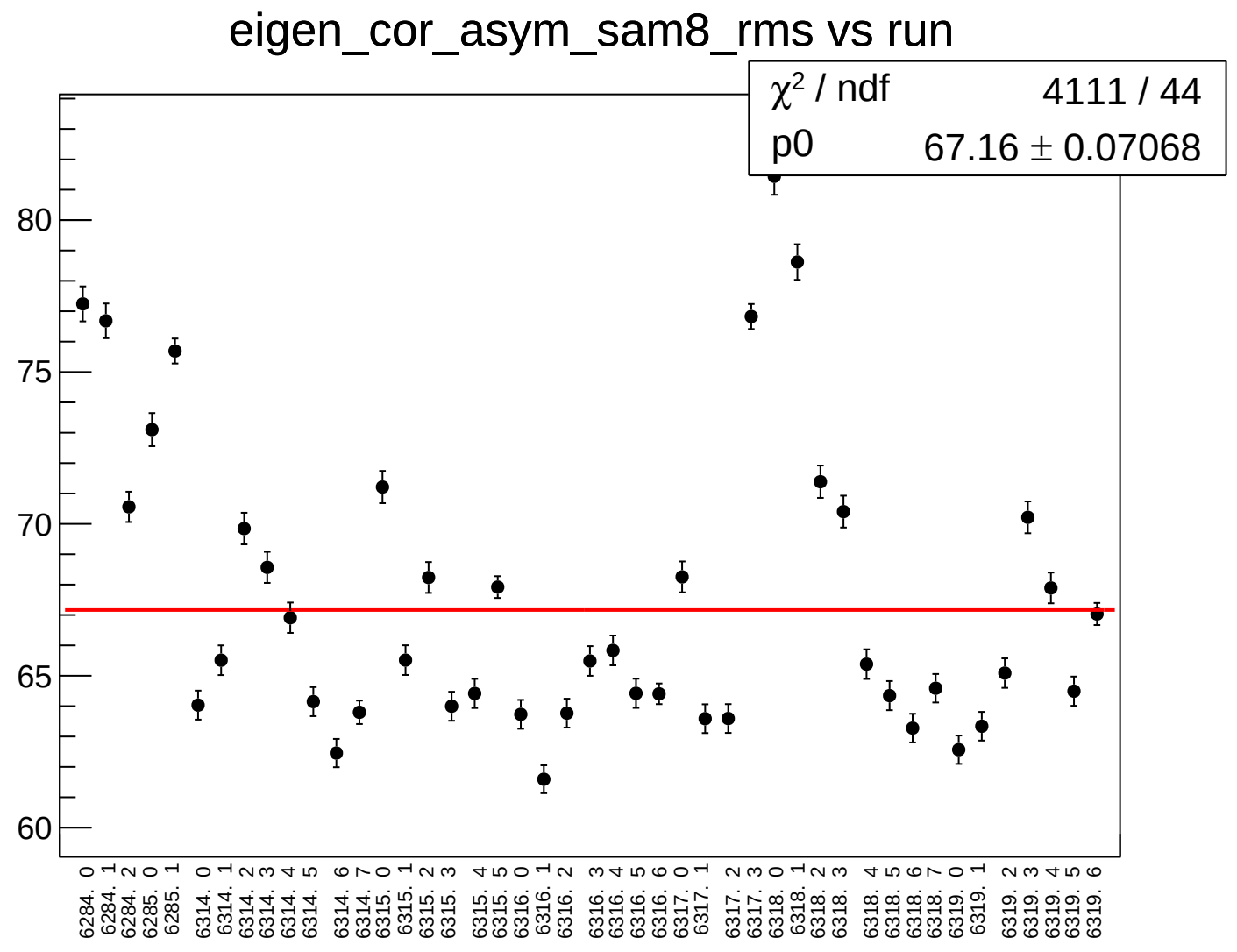

asym_sam8_cor_correction_mean vs run
χ² / ndf 41.1 / 44
p0 −222.4 ± 929.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 234.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

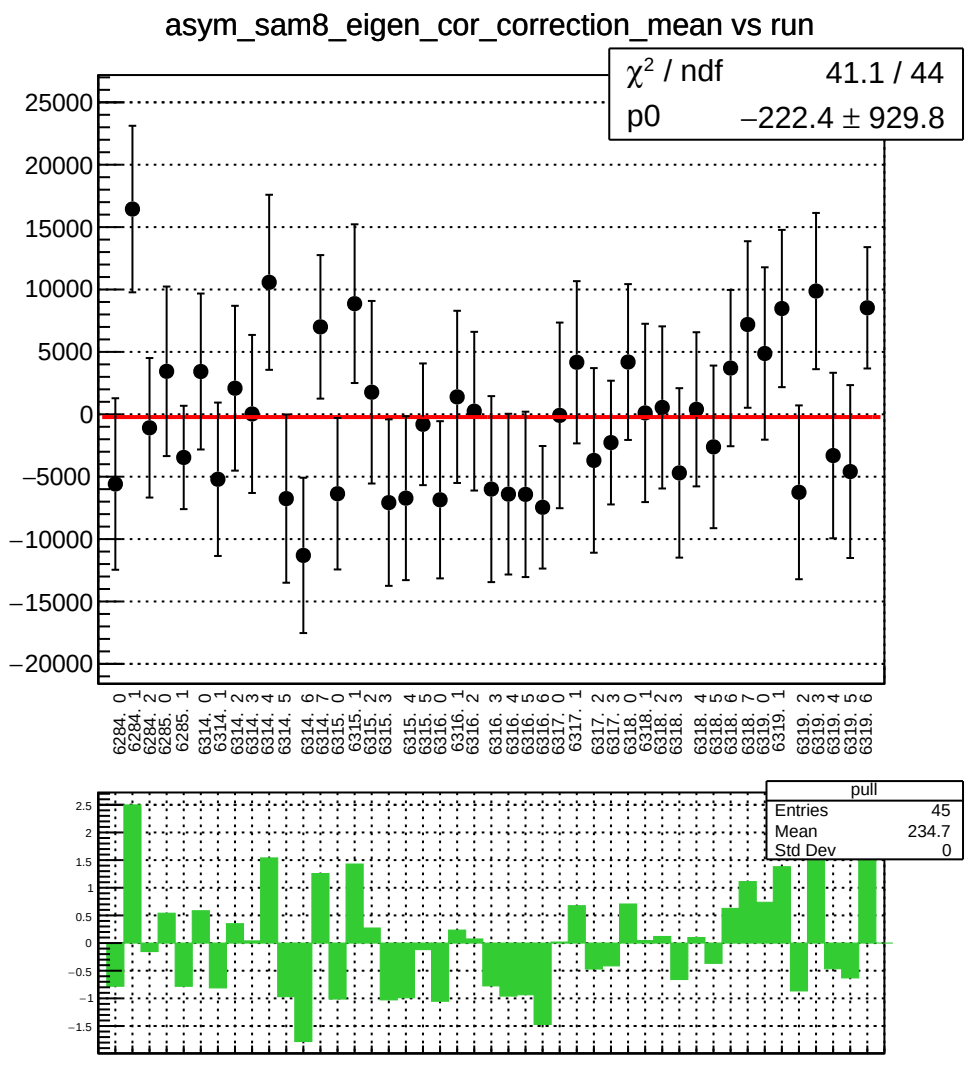

pull1D
Entries 45
Mean 0.005996
Std Dev 0.9557
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

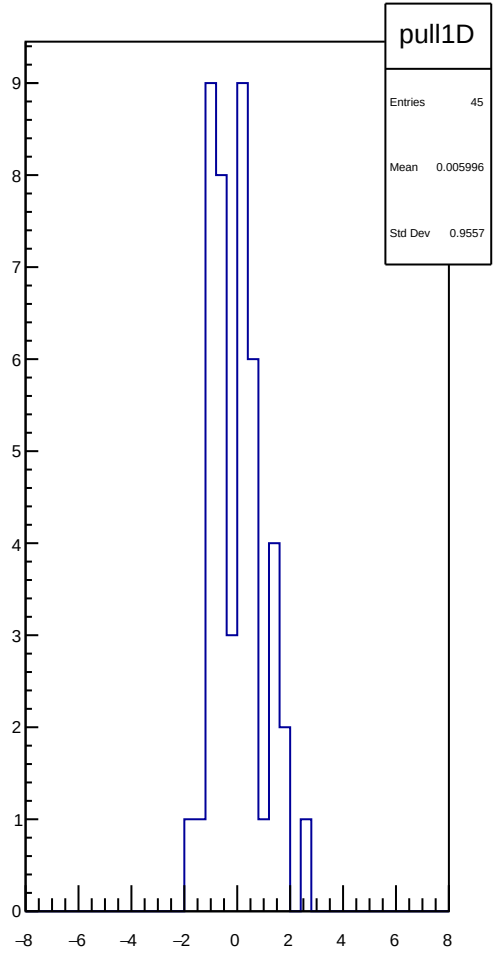

asym_sam8_cor_correction_rms vs run
χ² / ndf 3564 / 44
p0 625 ± 0.6575
720
700
680
660
640
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

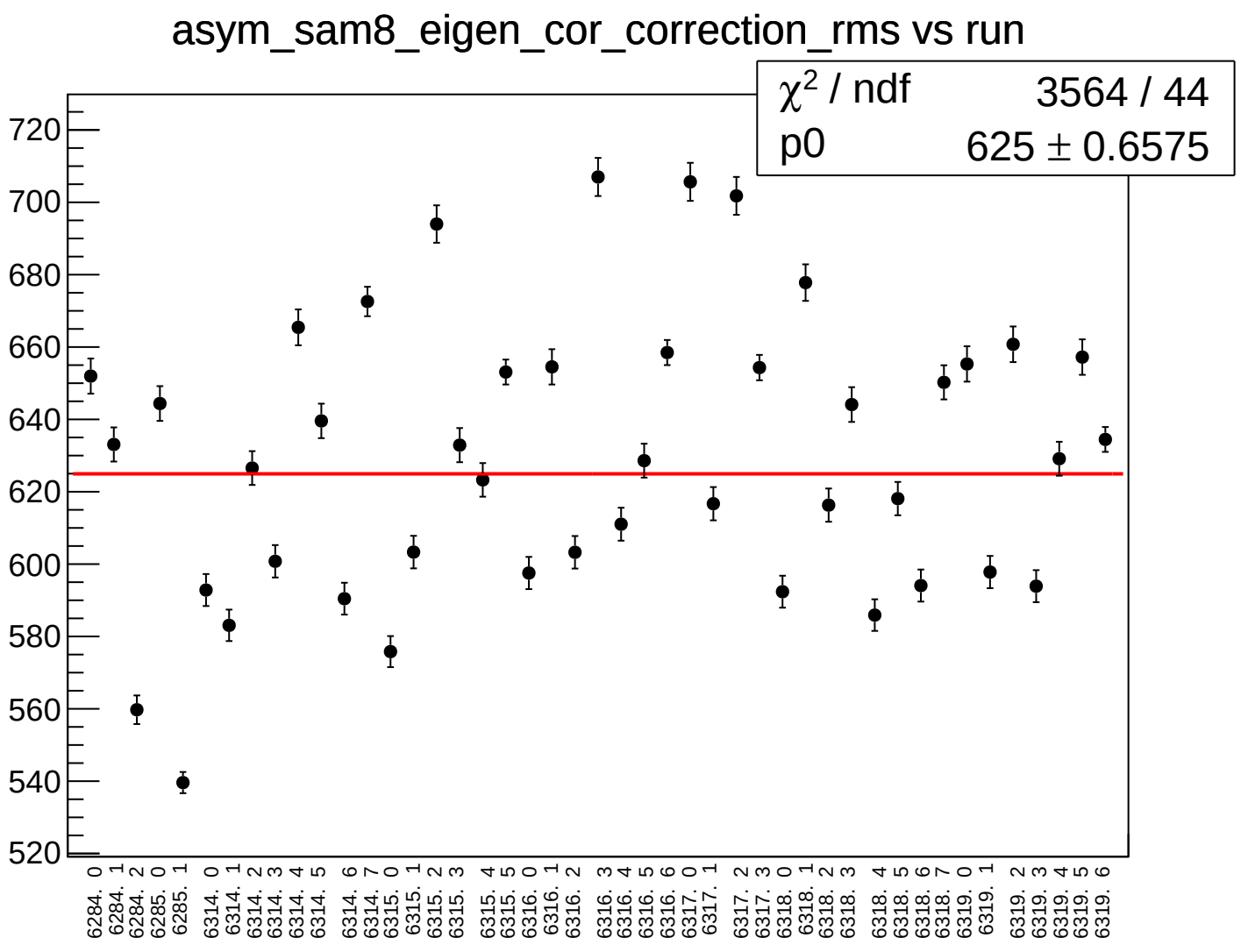

eigen_cor_asym_sam8_mean vs run
χ² / ndf 39.62 / 44
p0 −135.3 ± 99.96
pull
Entries 45
Mean −195.7
Std Dev 0

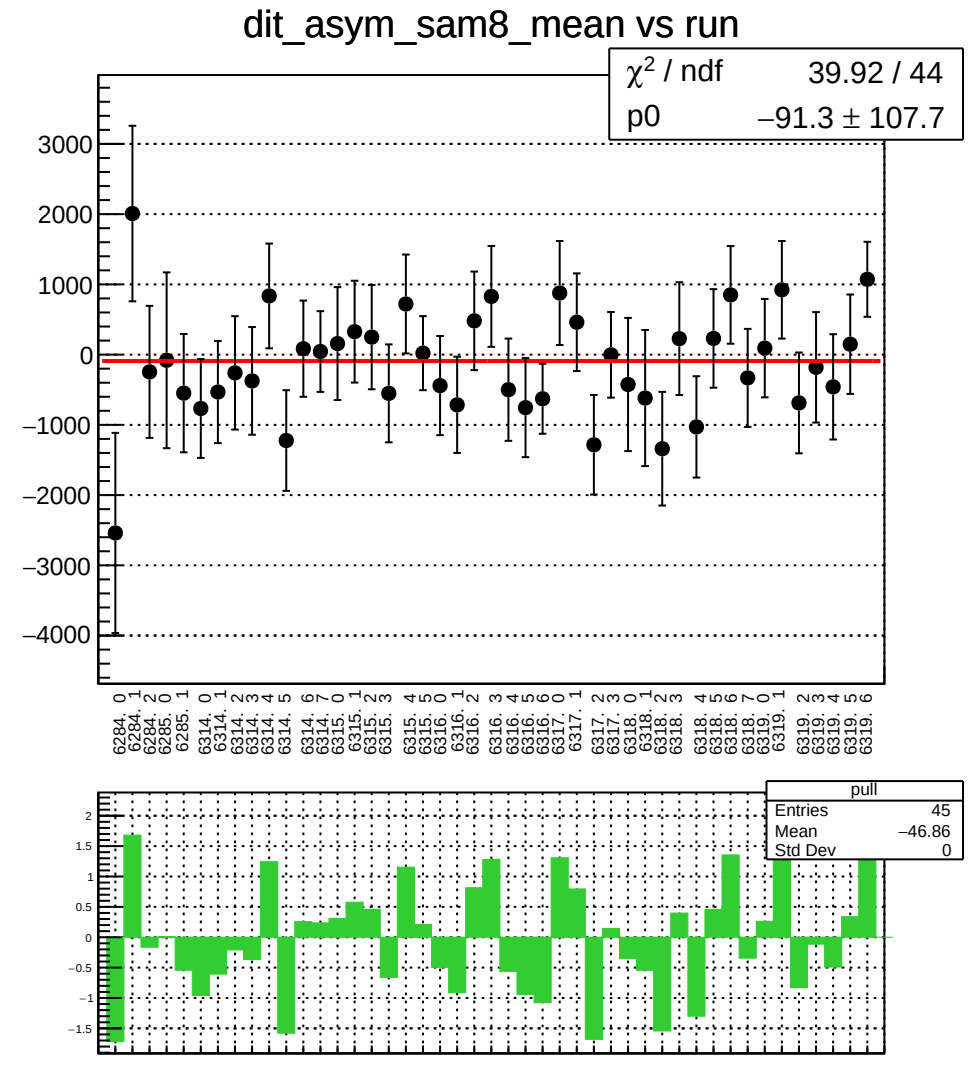

pull1D
Entries 45
Mean −0.01138
Std Dev 0.9383

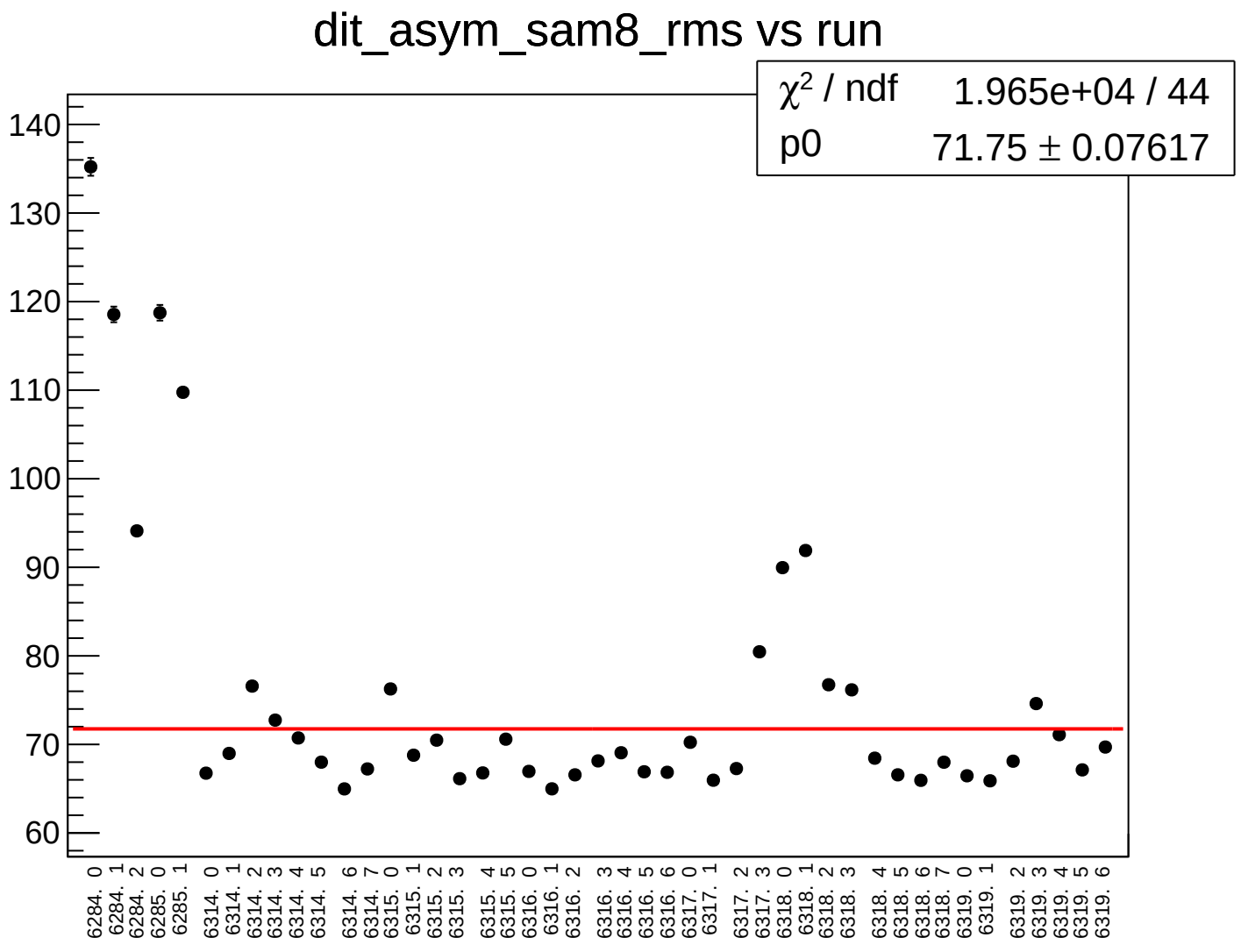

eigen_cor_asym_sam8_rms vs run
χ² / ndf 4111 / 44
p0 67.16 ± 0.07068
80
75
70
65
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 41.1 / 44
p0 −222.4 ± 929.8
pull
Entries 45
Mean 234.7
Std Dev 0


pull1D
Entries 45
Mean 0.005996
Std Dev 0.9557


asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3564 / 44
p0 625 ± 0.6575
720
700
680
660
640
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam8_mean vs run
χ² / ndf 39.92 / 44
p0 −91.3 ± 107.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.02356
Std Dev 0.9416
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
χ² / ndf 1.965e+04 / 44
p0 71.75 ± 0.07617
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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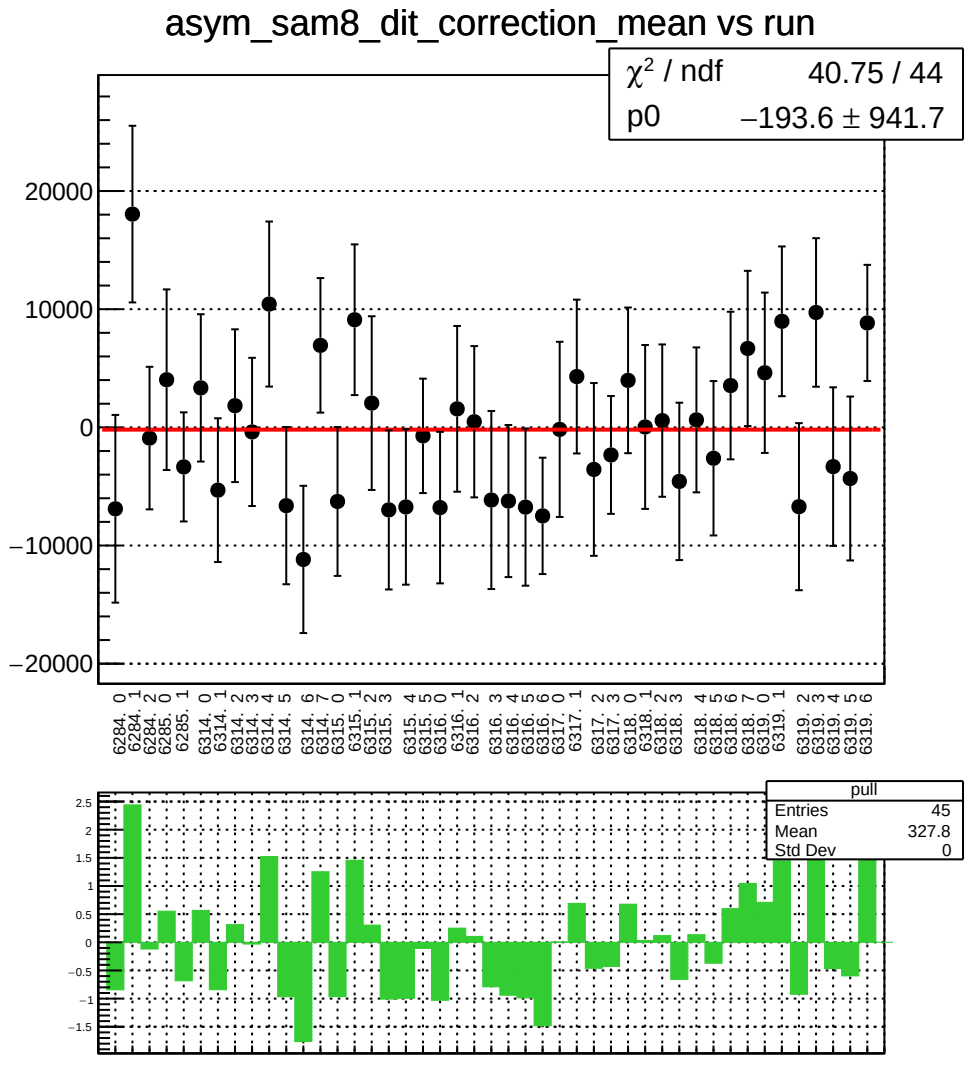
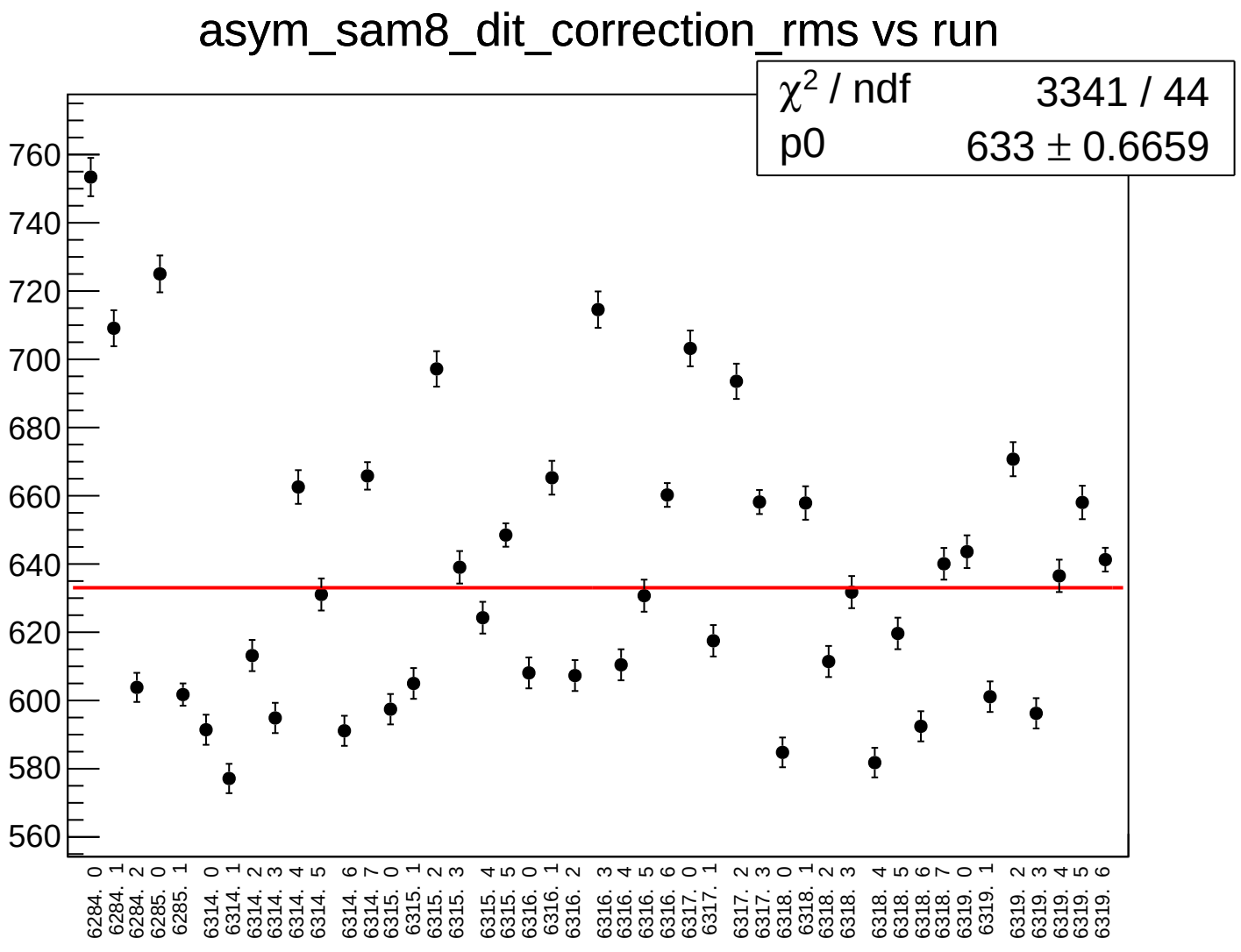
6319. 5
6319. 6


asym_sam8_dit_correction_mean vs run
χ² / ndf 40.75 / 44
p0 −193.6 ± 941.7
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 327.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004168
Std Dev 0.9517
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_dit_correction_rms vs run
χ² / ndf 3341 / 44
p0 633 ± 0.6659
760
740
720
700
680
660
640
620
600
580
560
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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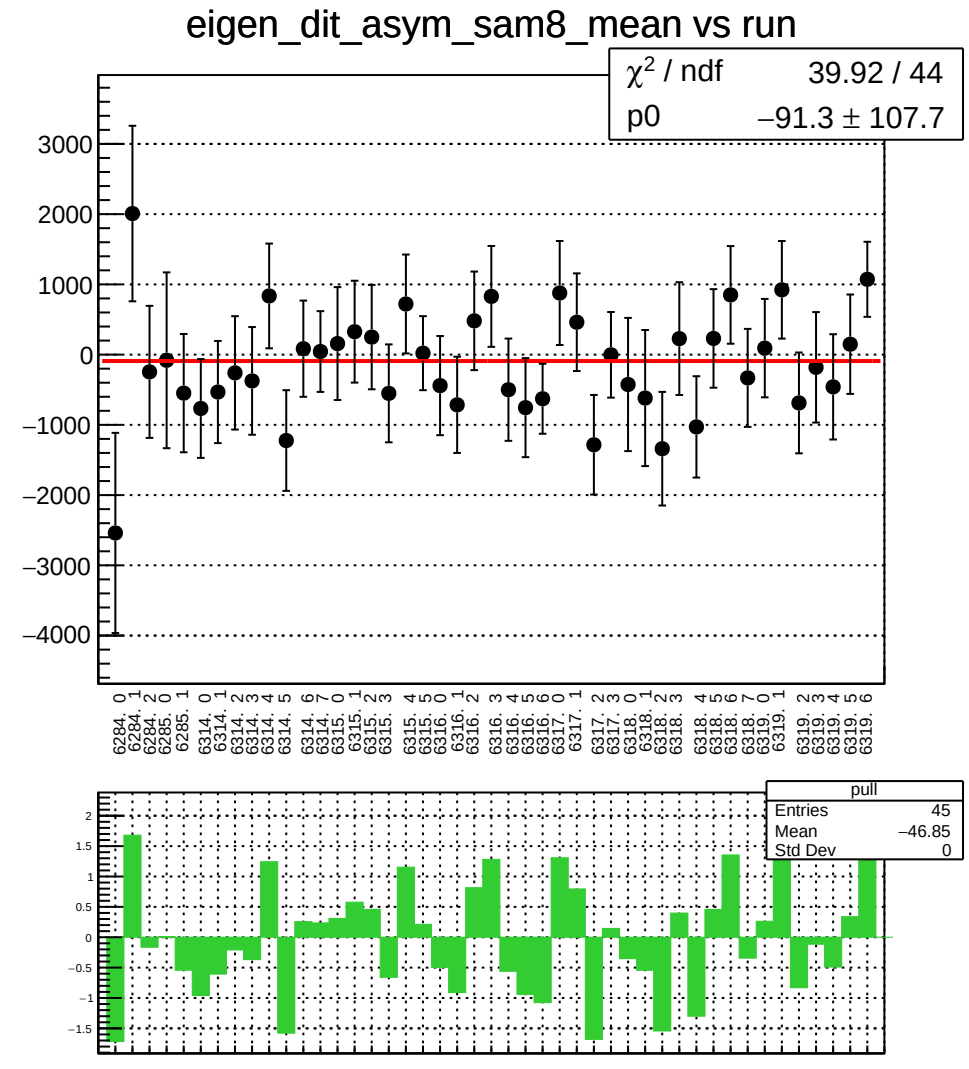
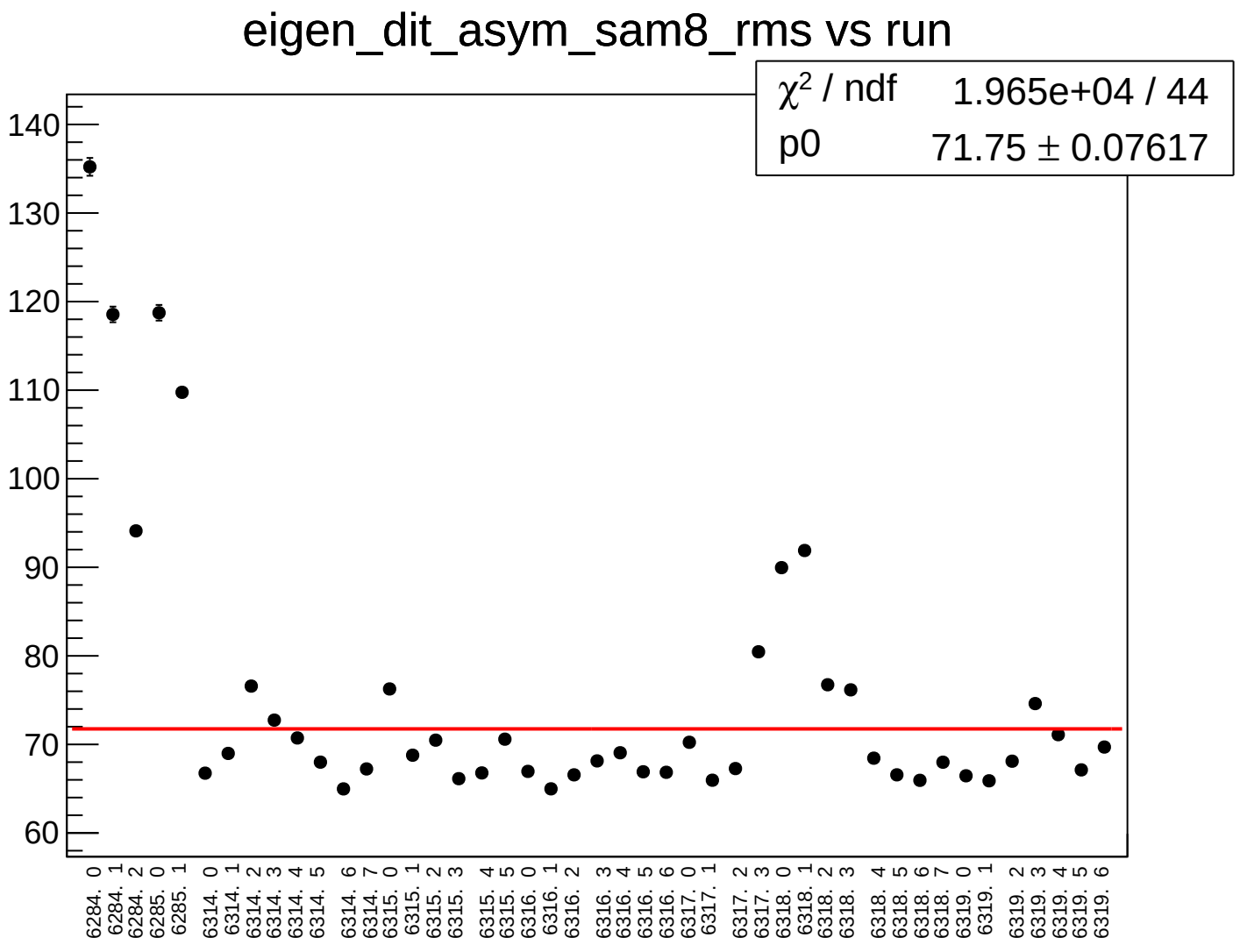
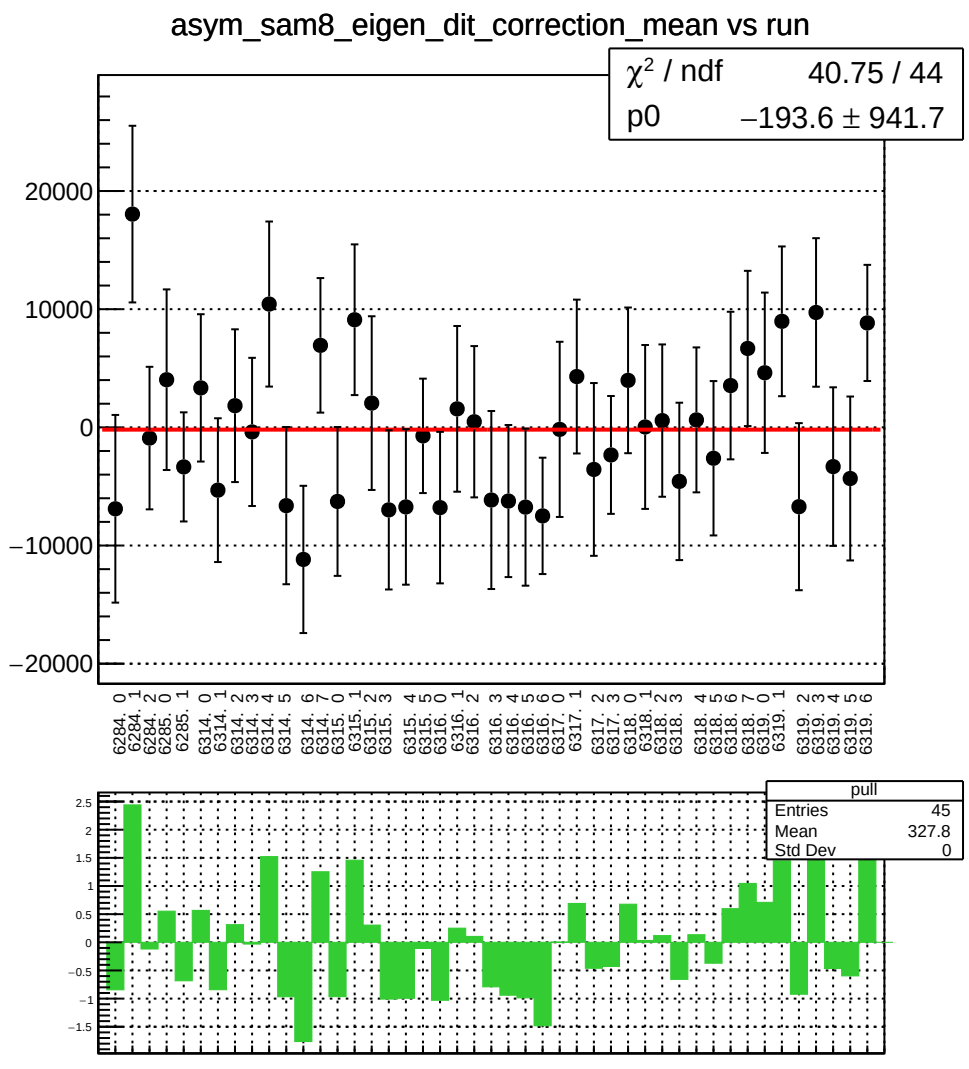
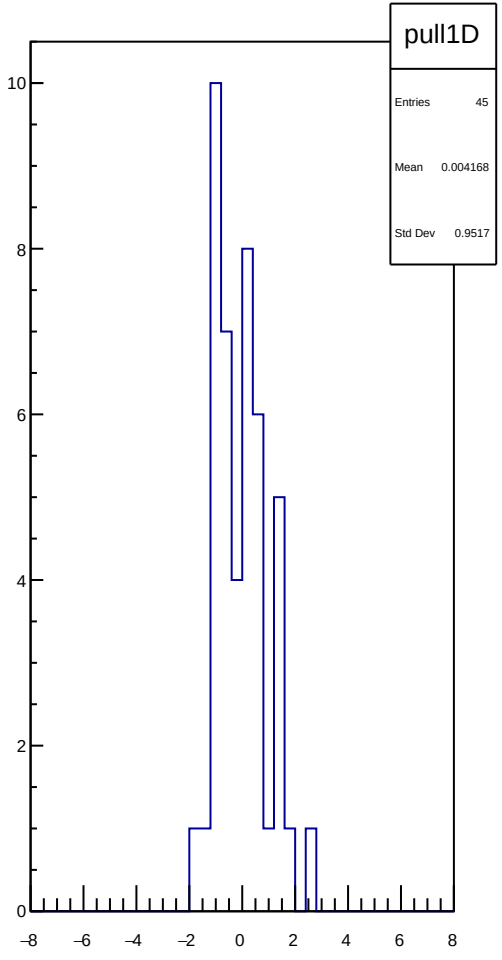
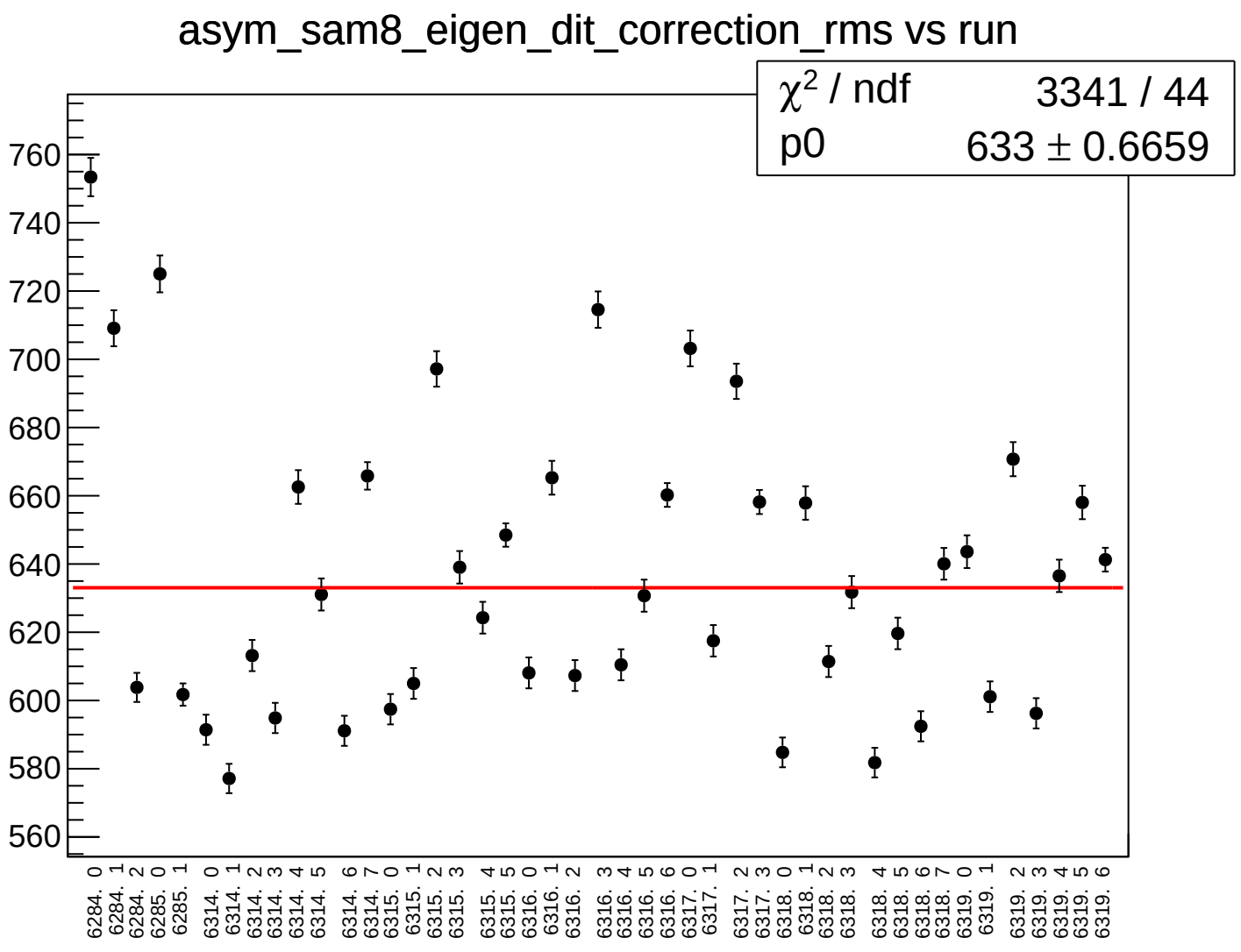
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

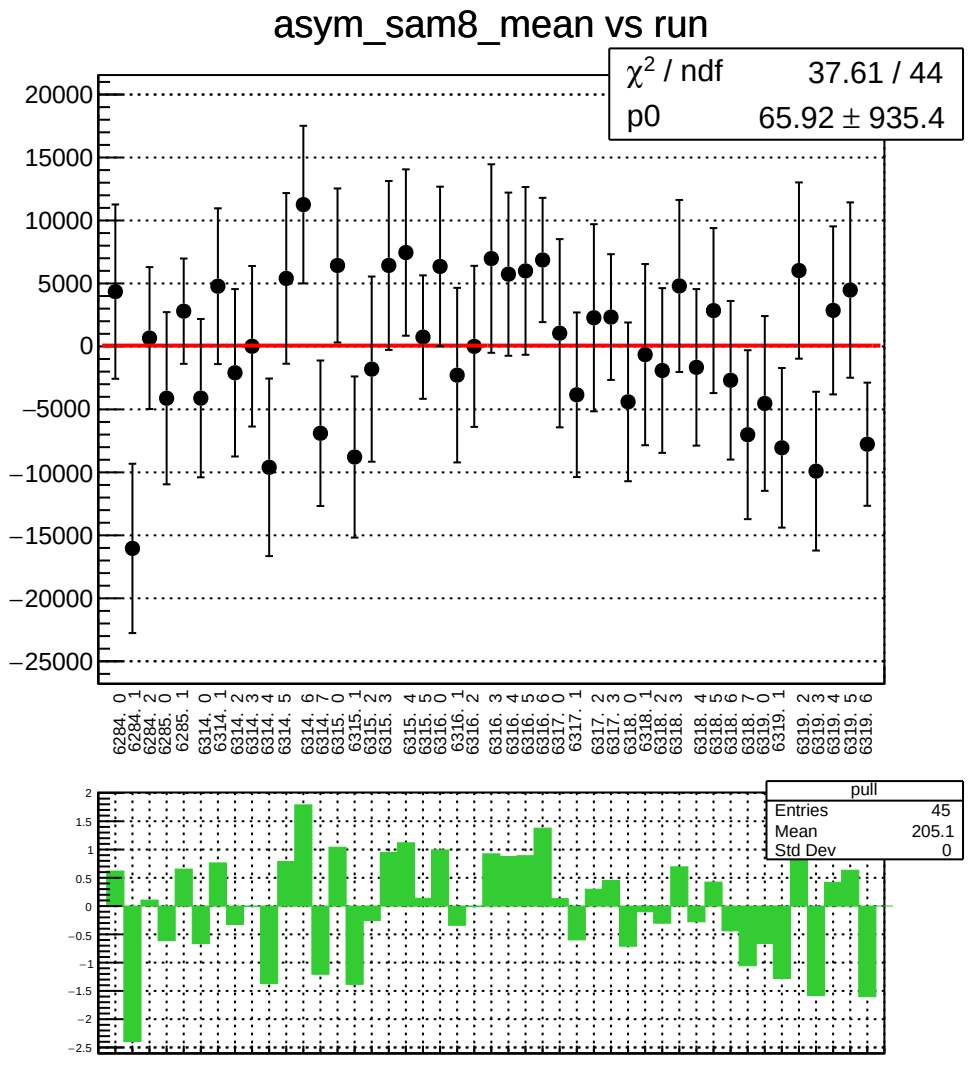

eigen_dit_asym_sam8_mean vs run
χ² / ndf 39.92 / 44
p0 −91.3 ± 107.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.02356
Std Dev 0.9416
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

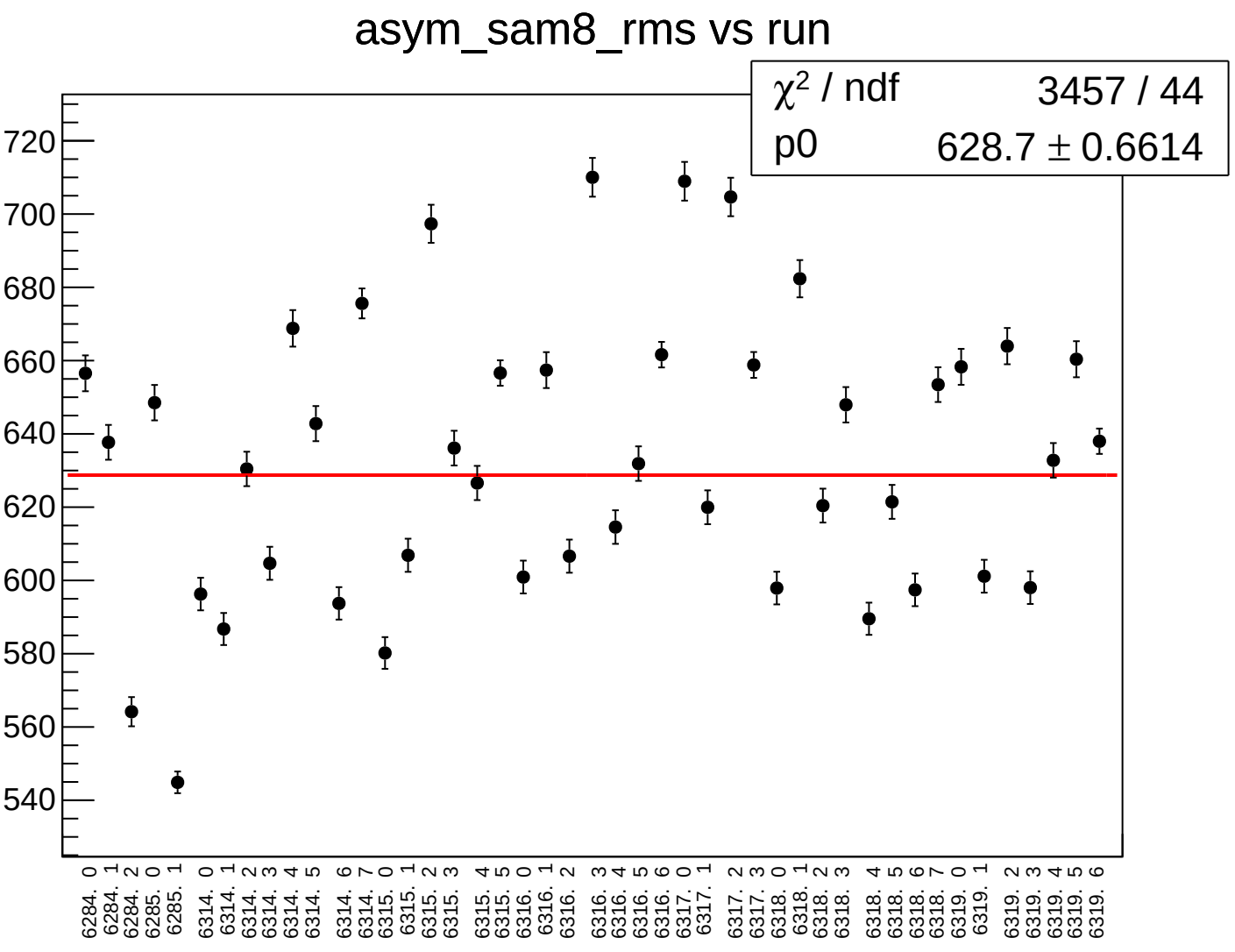

eigen_dit_asym_sam8_rms vs run
χ² / ndf 1.965e+04 / 44
p0 71.75 ± 0.07617
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

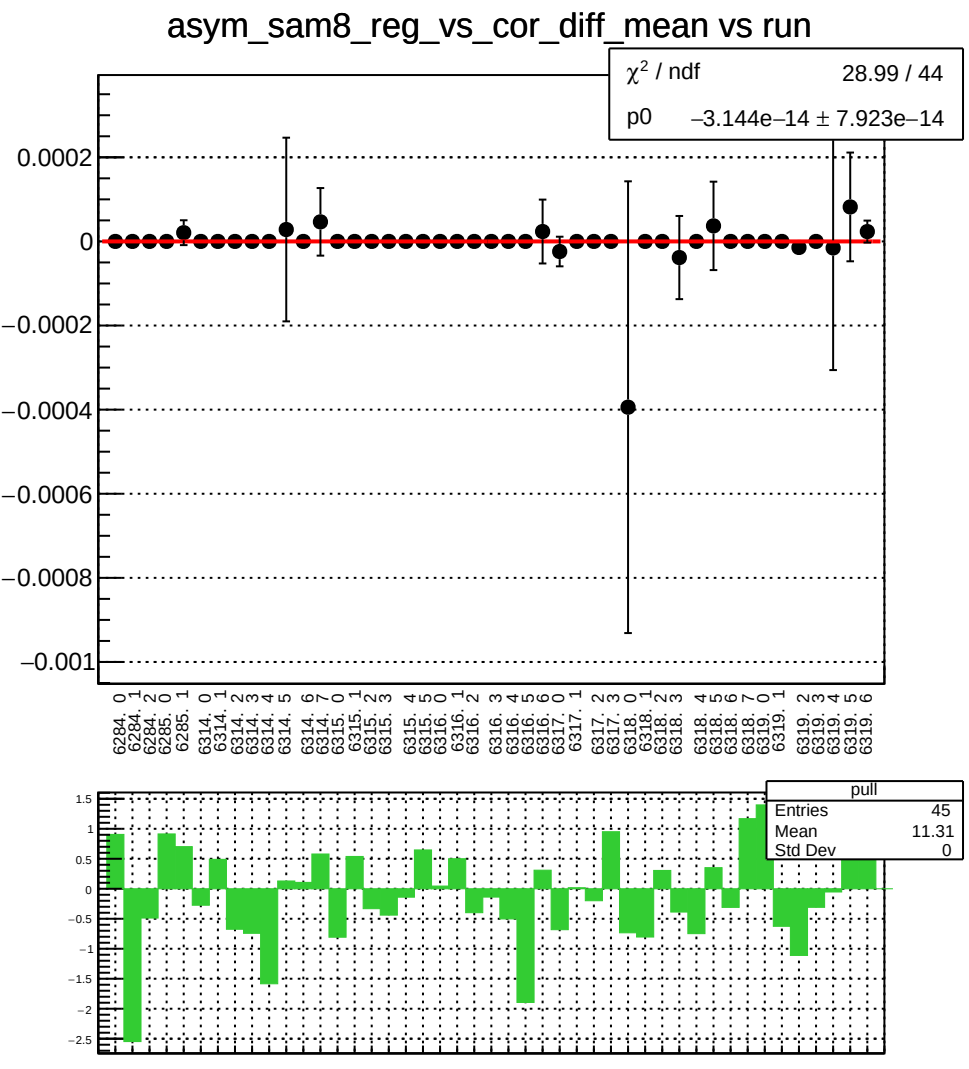

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 40.75 / 44
p0 −193.6 ± 941.7
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 327.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

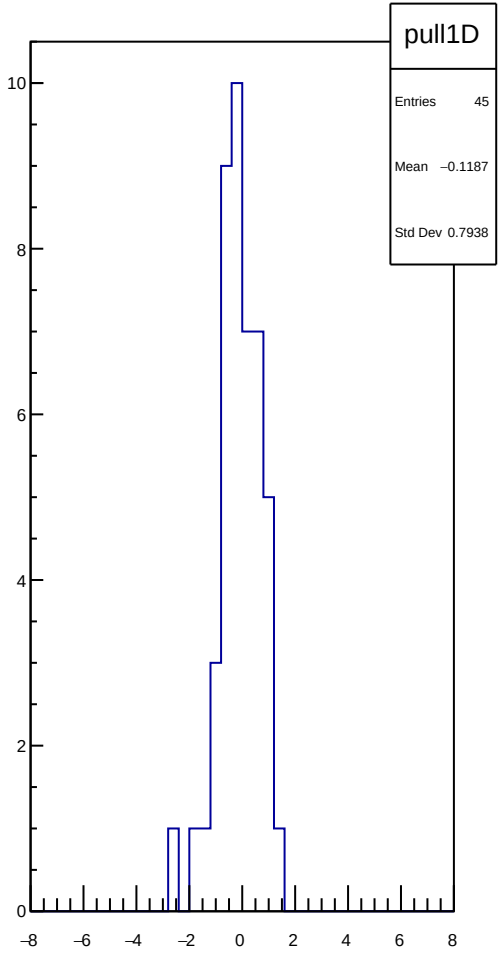

pull1D
Entries 45
Mean 0.004168
Std Dev 0.9517
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

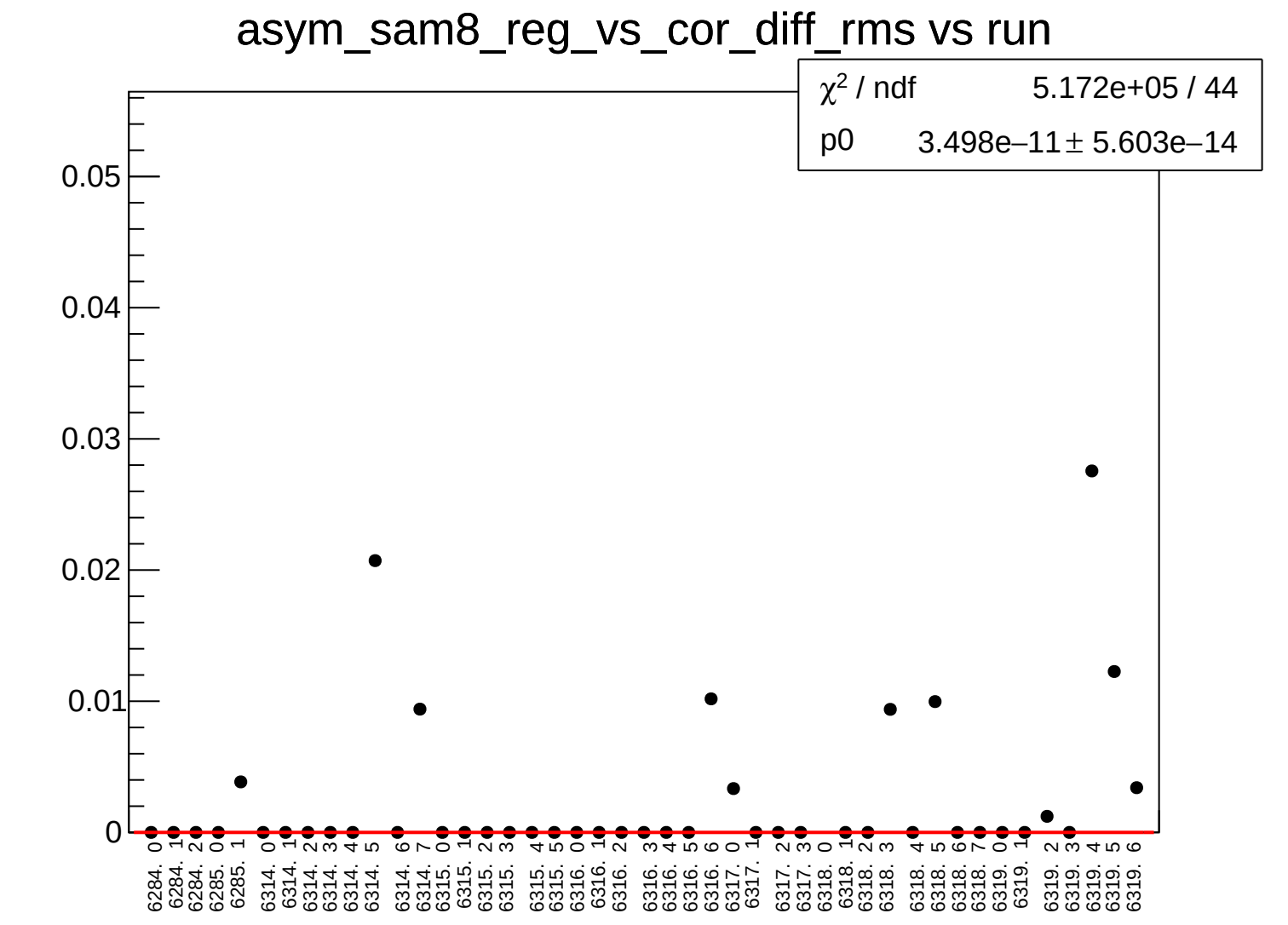

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3341 / 44
p0 633 ± 0.6659
760
740
720
700
680
660
640
620
600
580
560
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

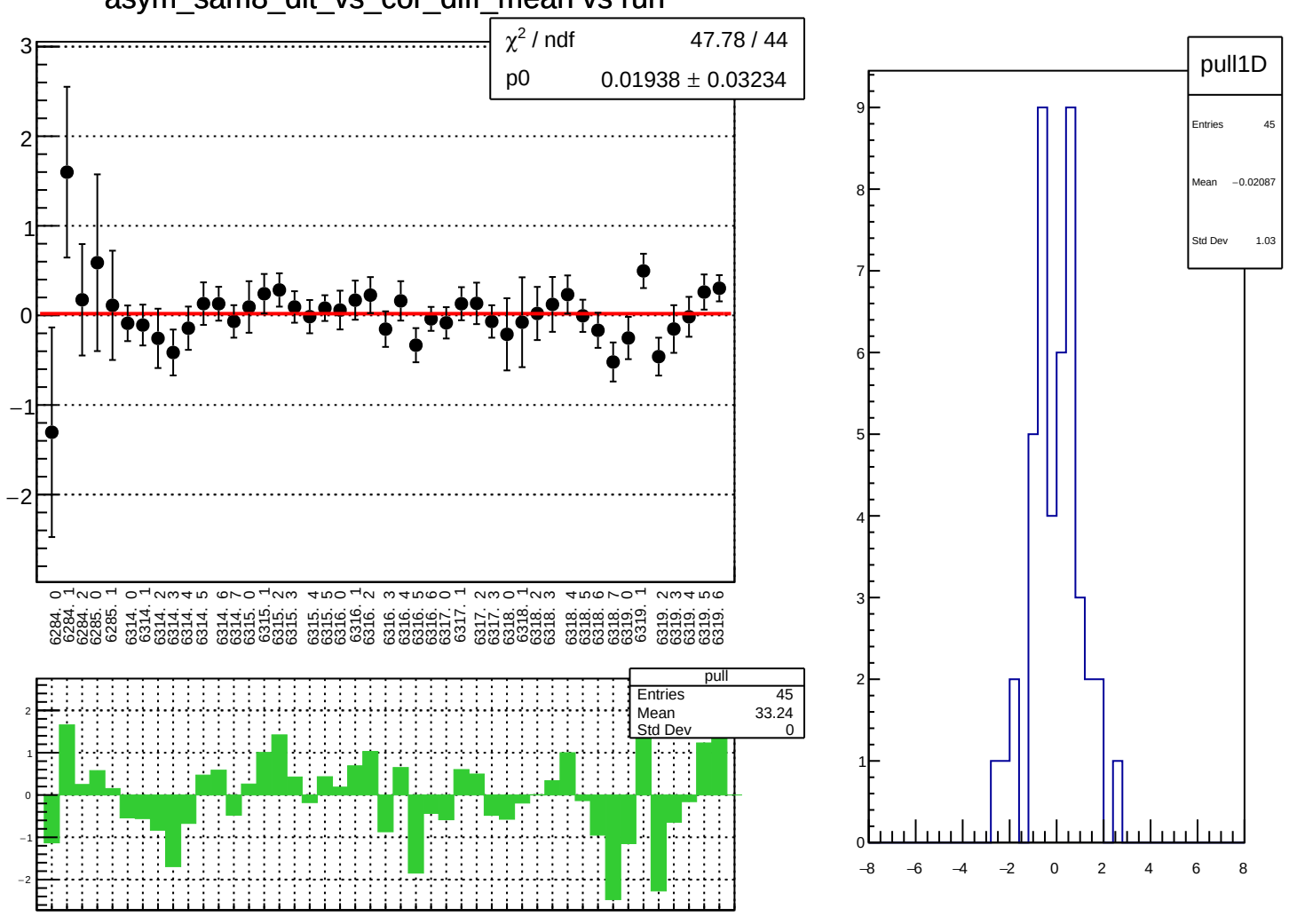

asym_sam8_mean vs run
χ² / ndf 37.61 / 44
p0 65.92 ± 935.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 205.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.005411
Std Dev 0.9142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

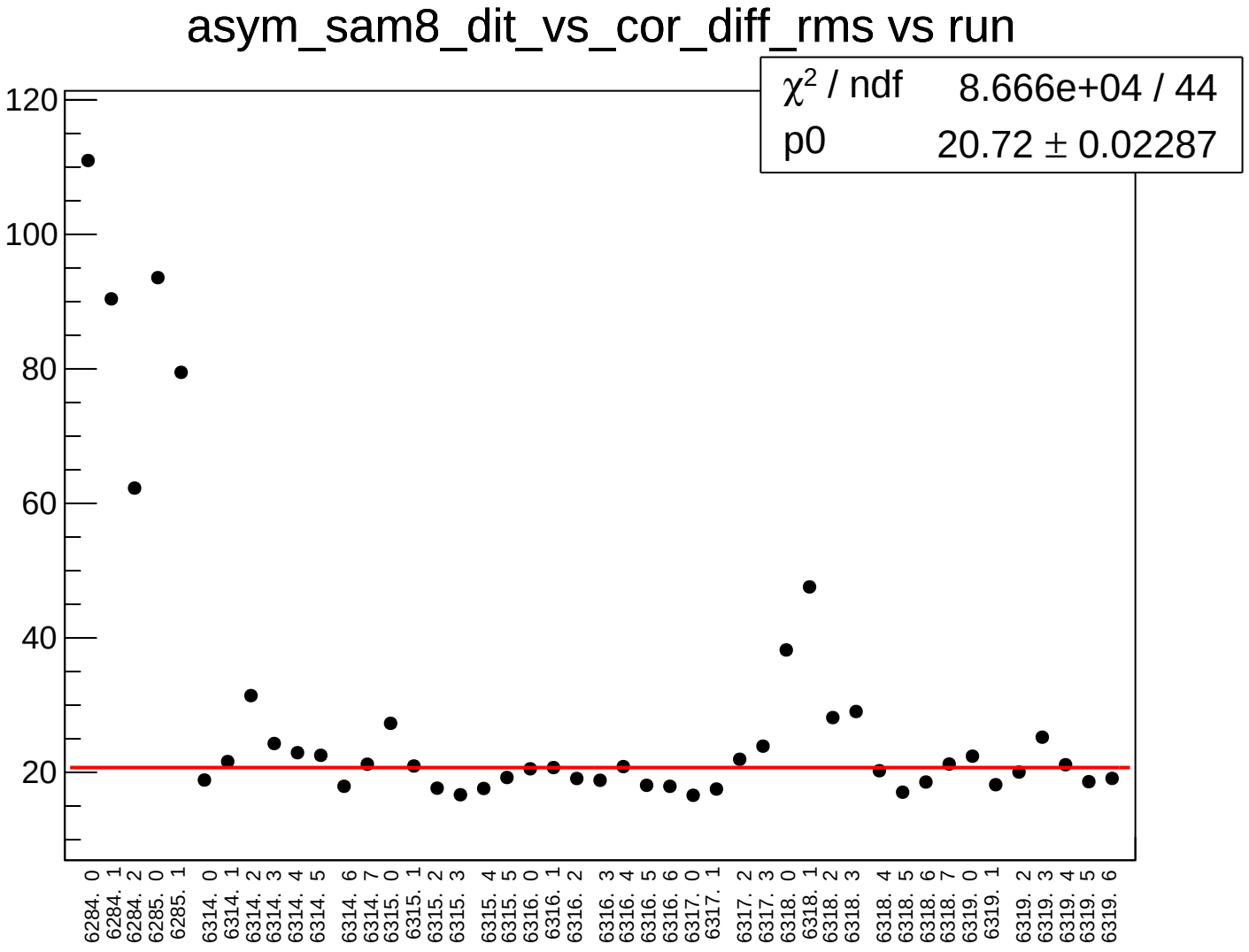

asym_sam8_rms vs run
χ² / ndf 3457 / 44
p0 628.7 ± 0.6614
720
700
680
660
640
620
600
580
560
540
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

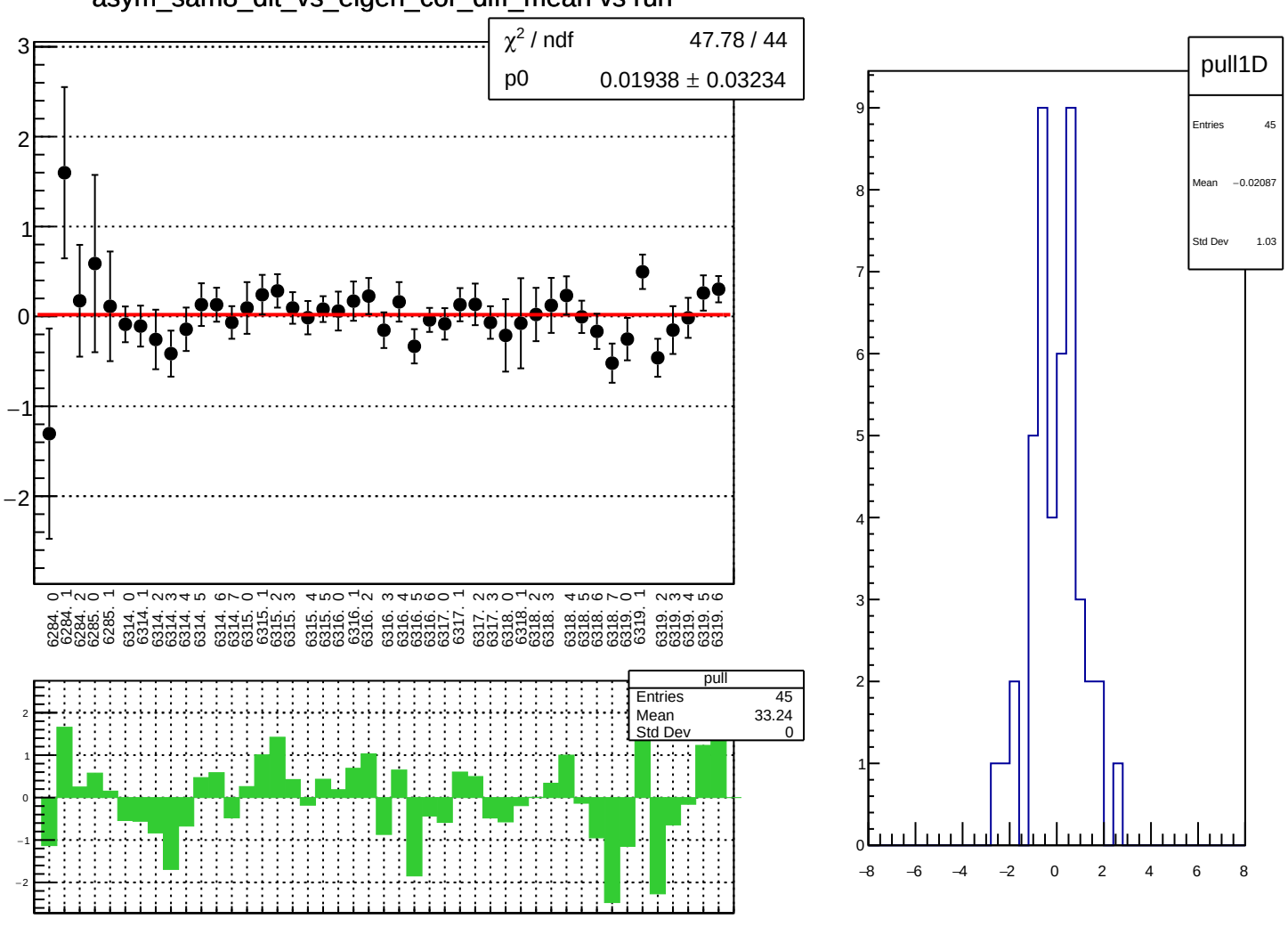

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 28.99 / 44
p0 −3.144e−14 ± 7.923e−14
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

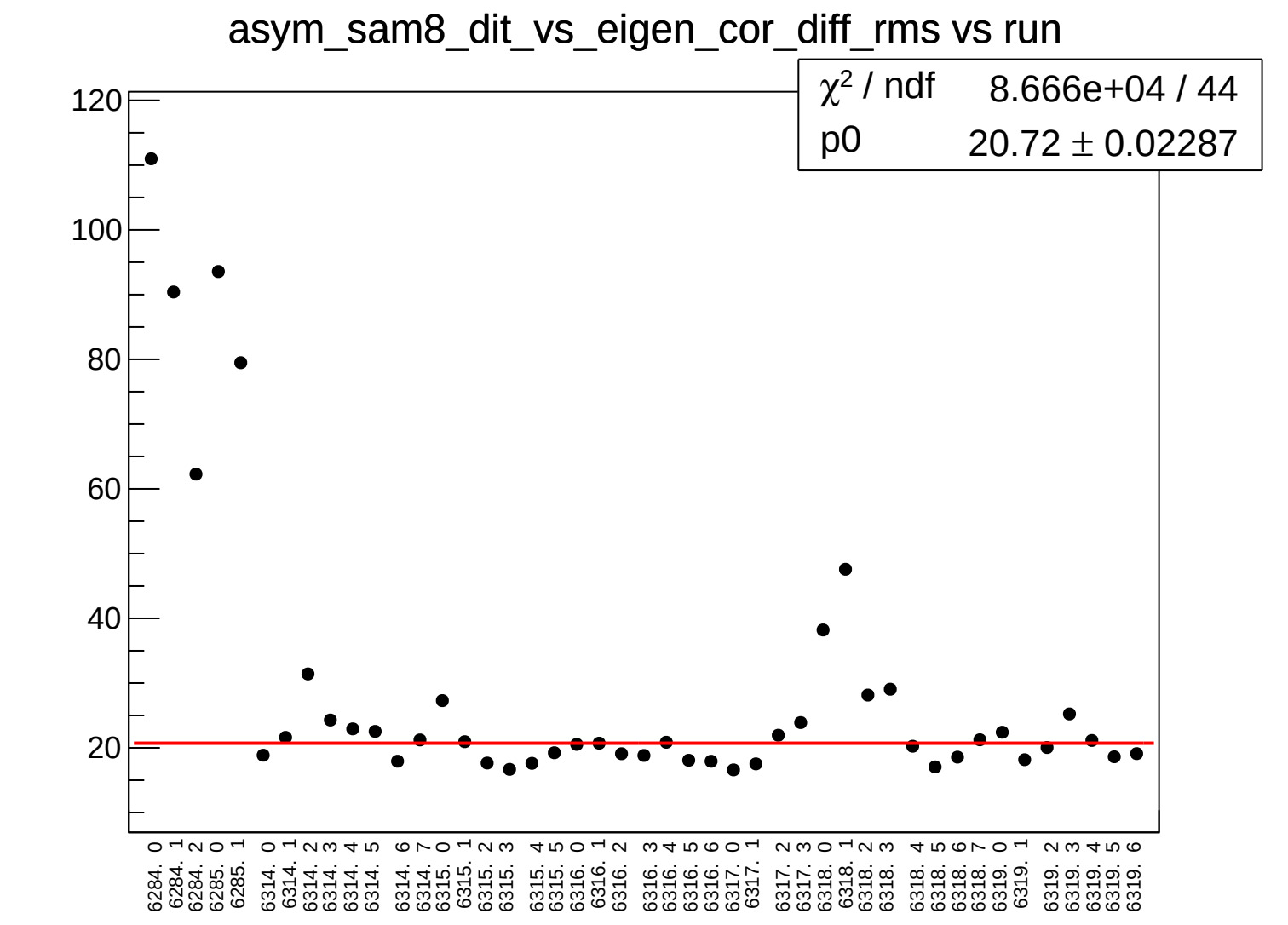

pull1D
Entries 45
Mean −0.1187
Std Dev 0.7938
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

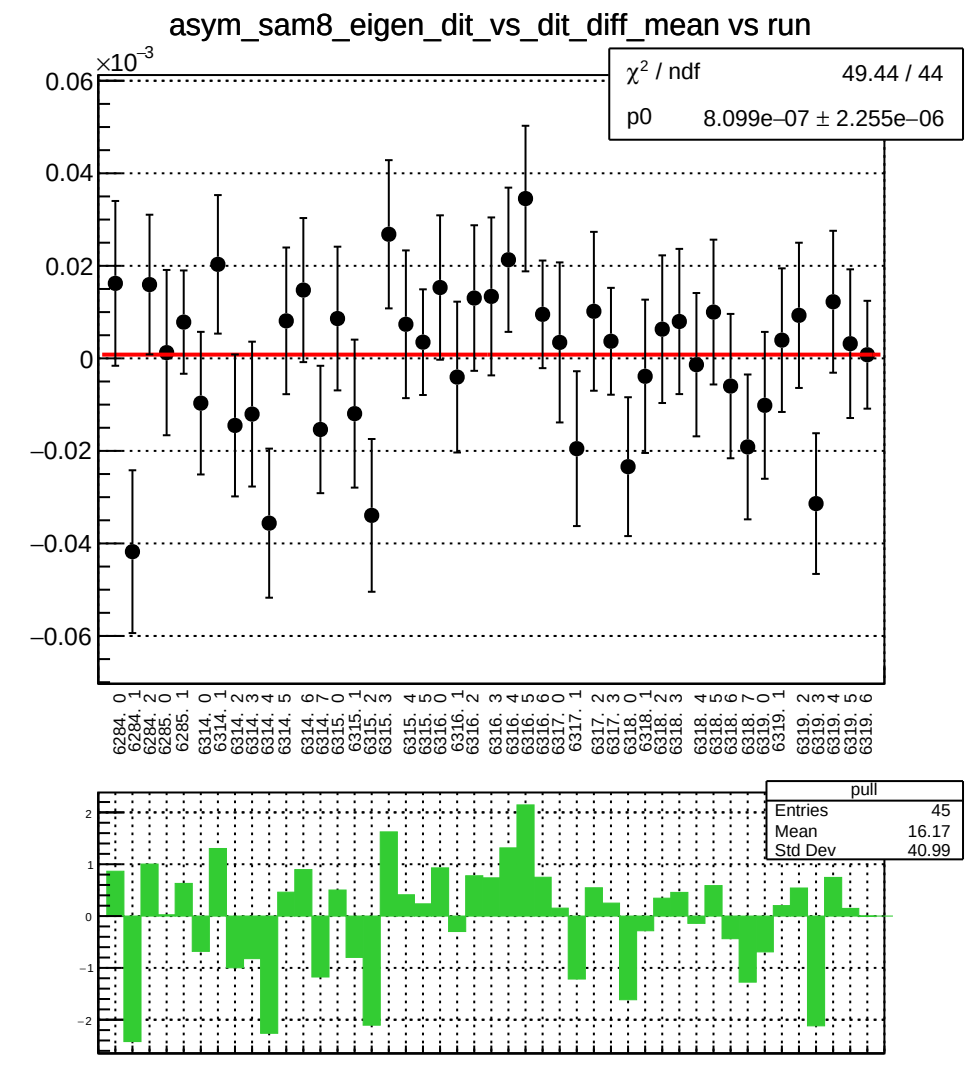

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.172e+05 / 44
p0 3.498e−11 ± 5.603e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

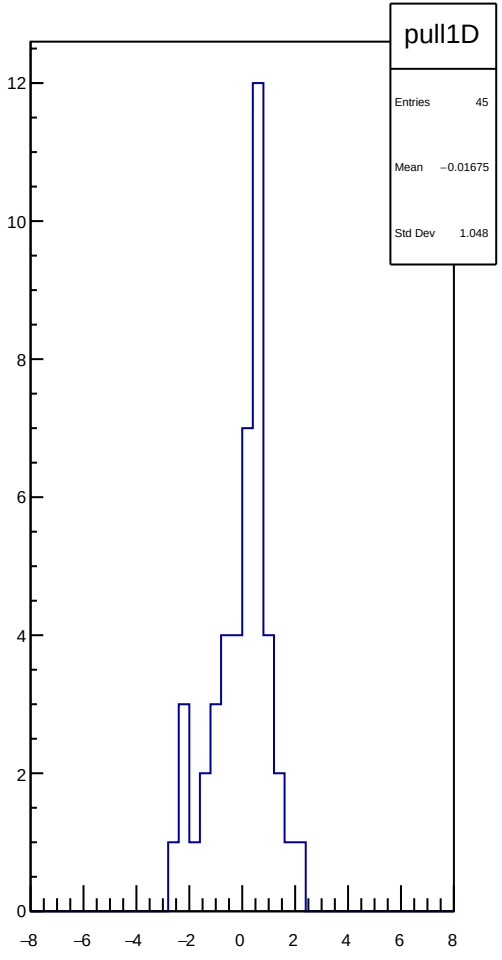

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 47.78 / 44
p0 0.01938 ± 0.03234
pull
Entries 45
Mean 33.24
Std Dev 0
pull1D
Entries 45
Mean −0.02087
Std Dev 1.03

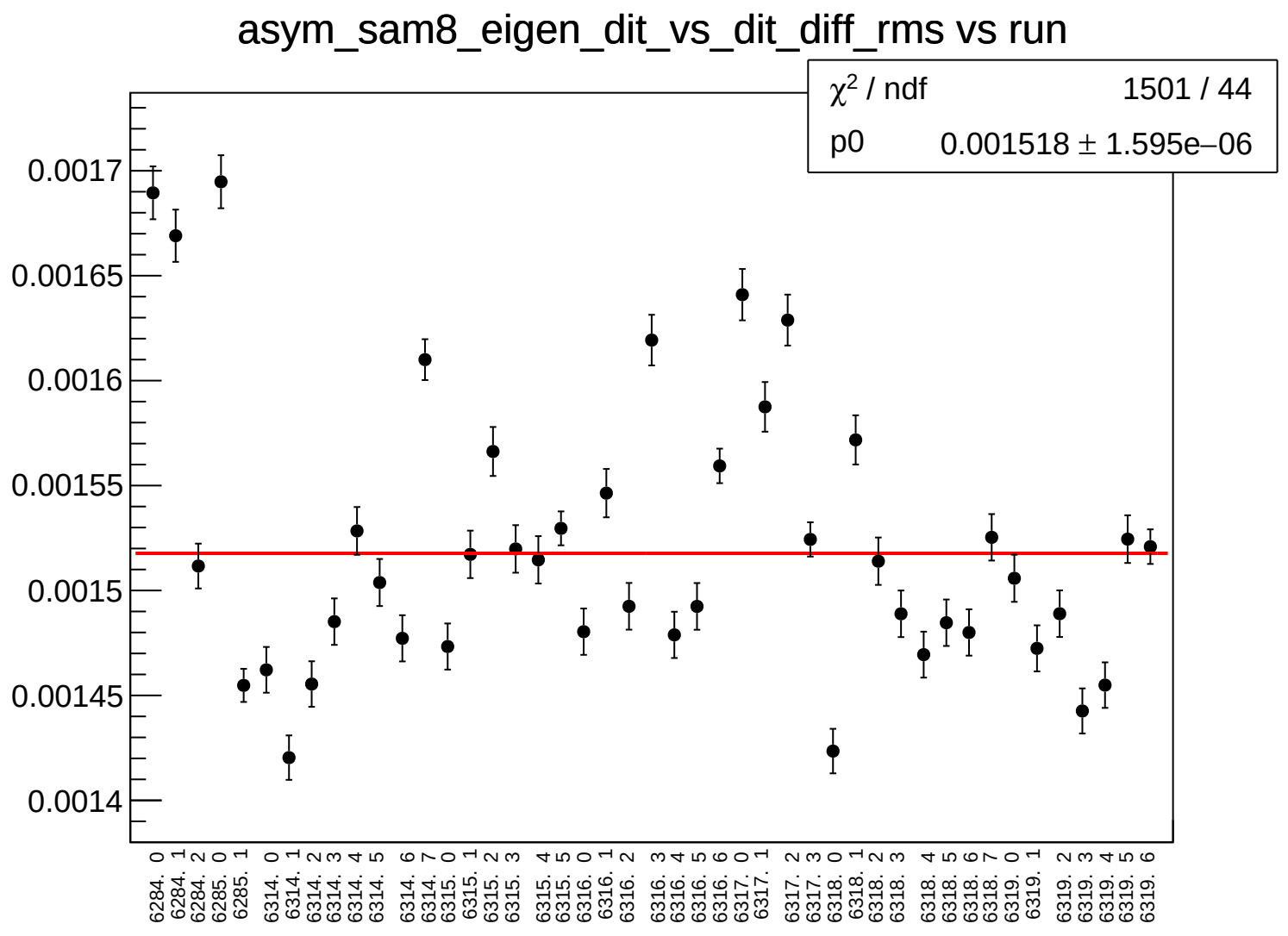

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 8.666e+04 / 44
p0 20.72 ± 0.02287
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

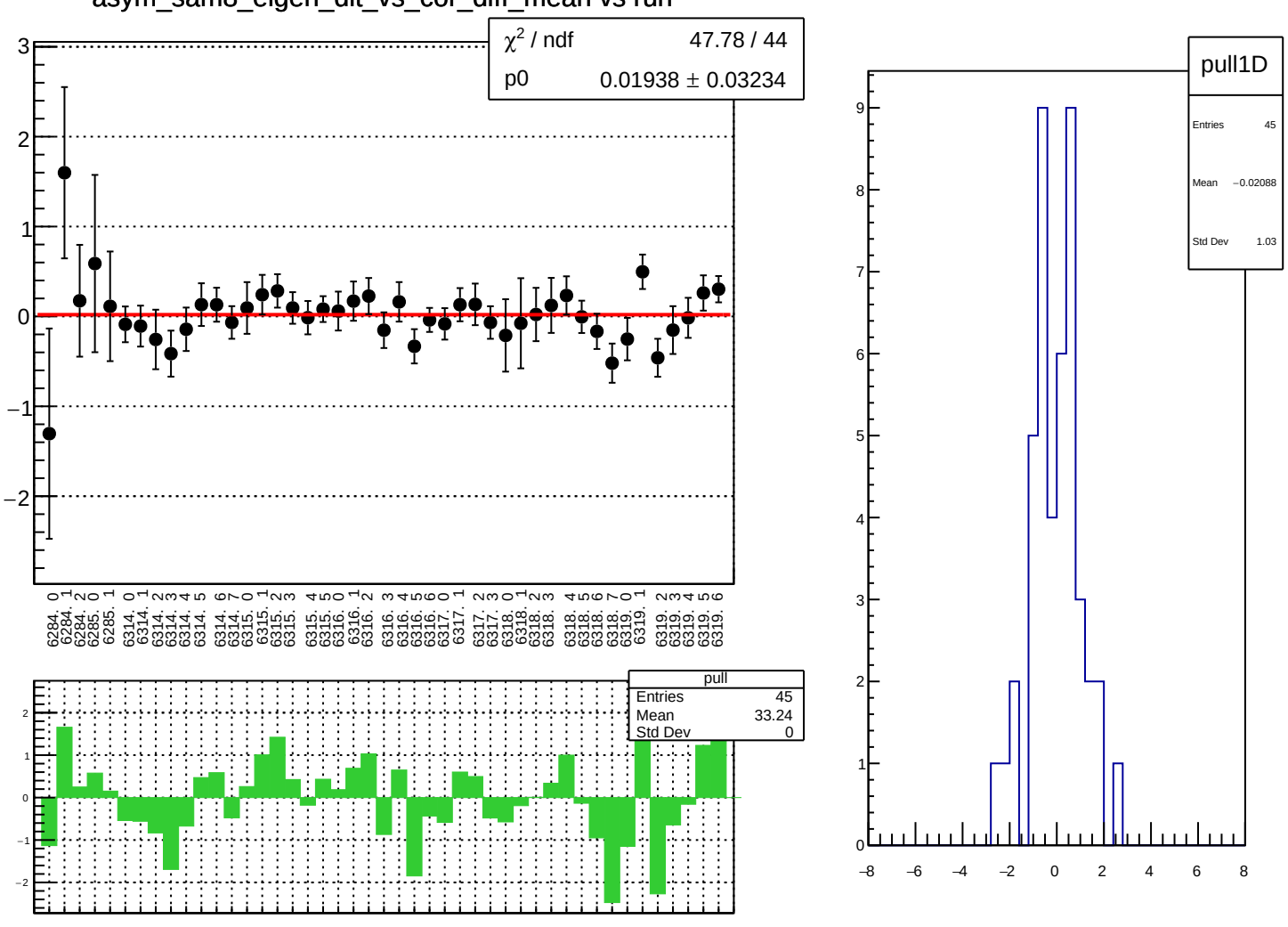

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.78 / 44
p0 0.01938 ± 0.03234
pull
Entries 45
Mean 33.24
Std Dev 0
pull1D
Entries 45
Mean −0.02087
Std Dev 1.03

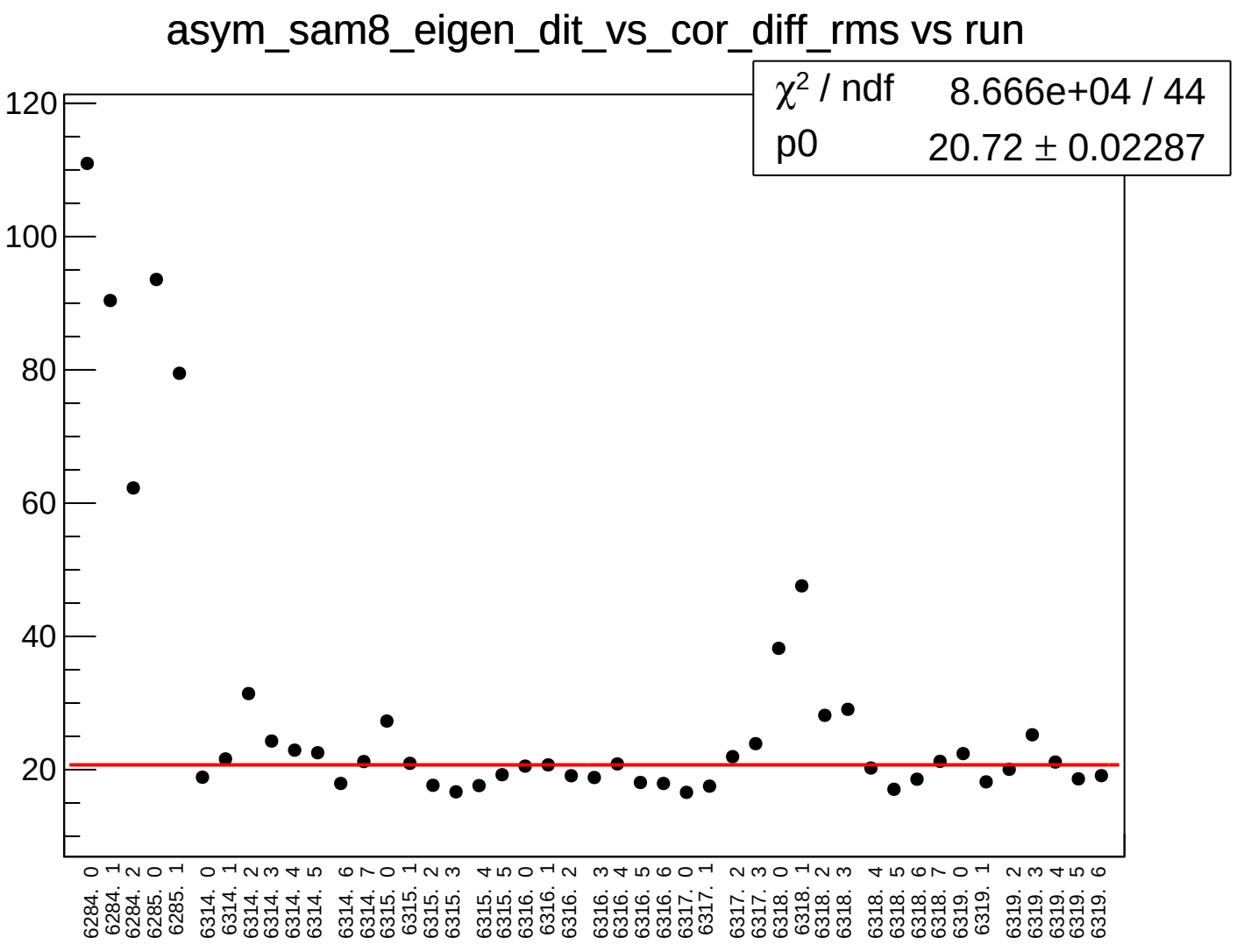

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.666e+04 / 44
p0 20.72 ± 0.02287
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

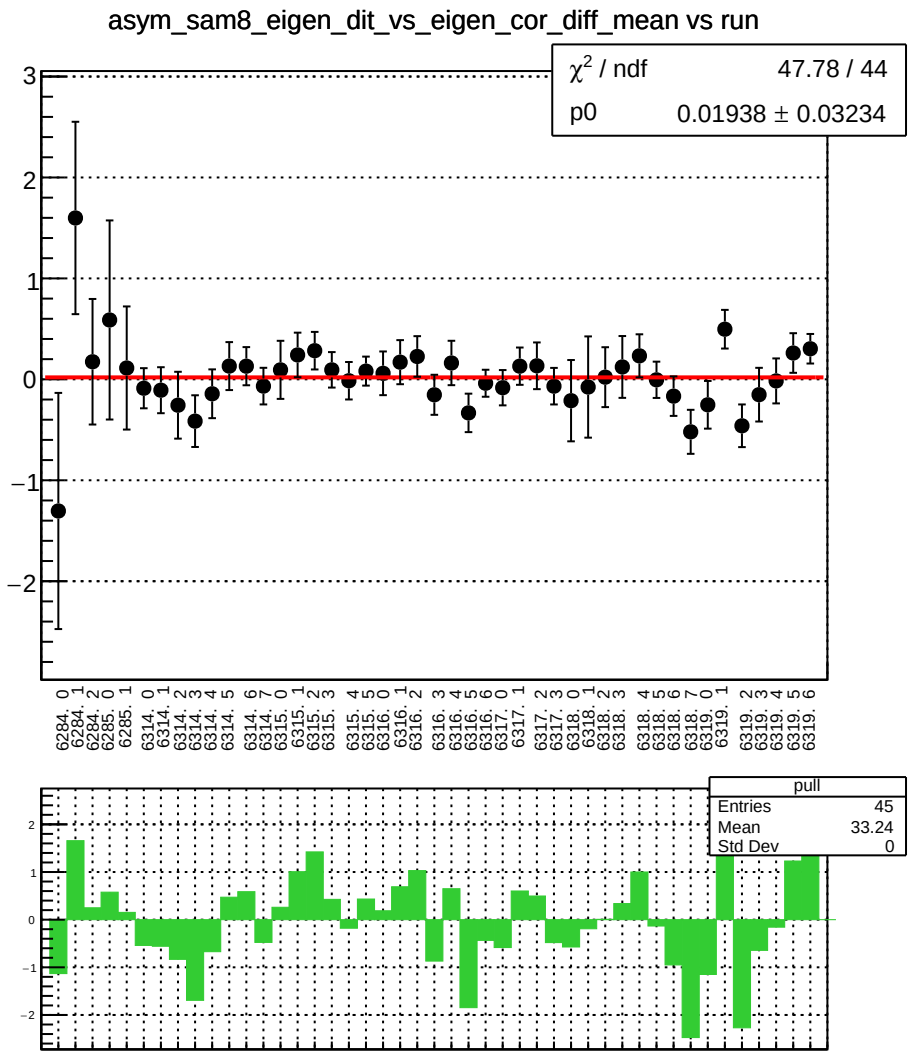

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.44 / 44
p0 8.099e−07 ± 2.255e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 16.17
Std Dev 40.99
2
1
0
−1
−2

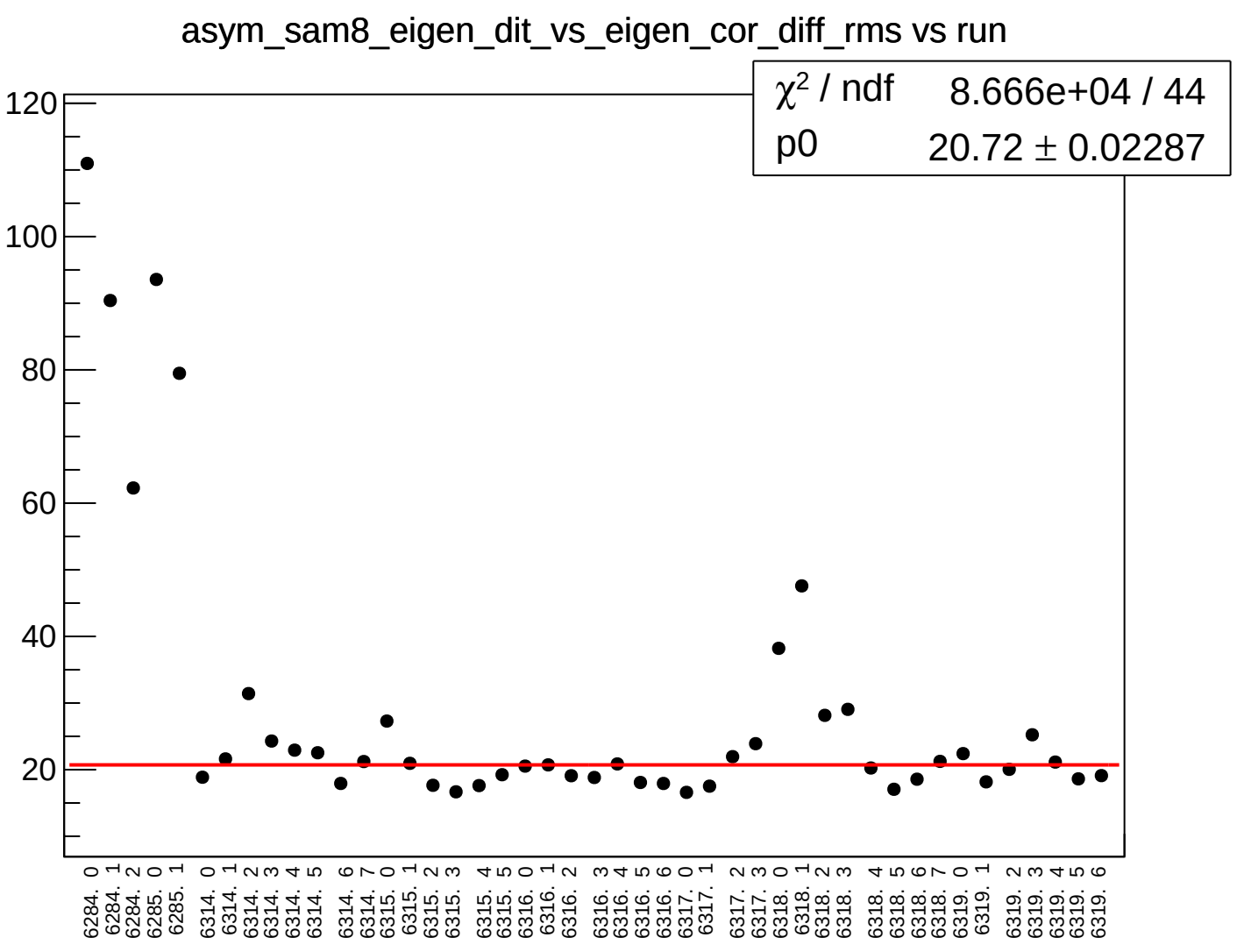

pull1D
Entries 45
Mean −0.01675
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

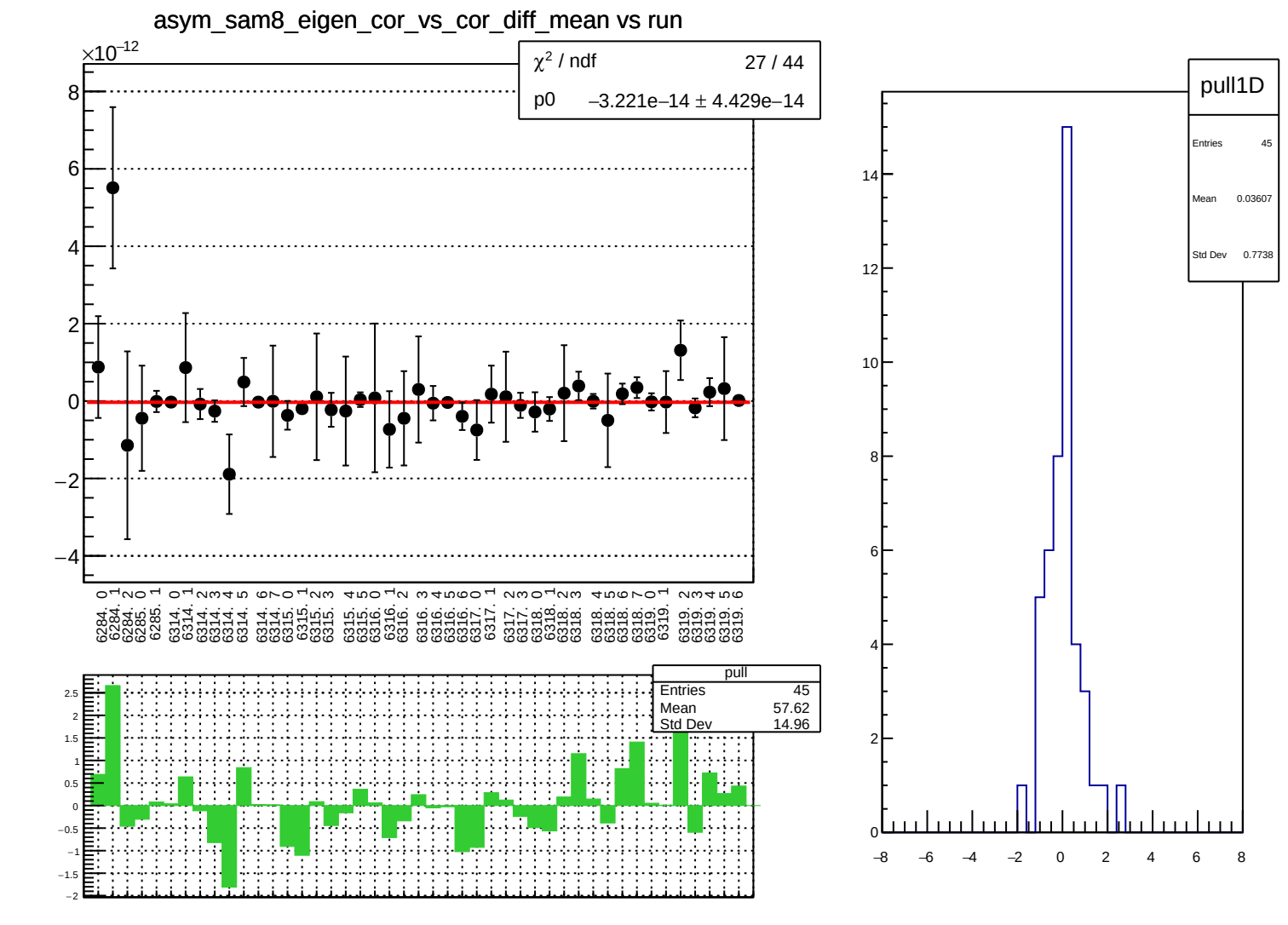

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1501 / 44
p0 0.001518 ± 1.595e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

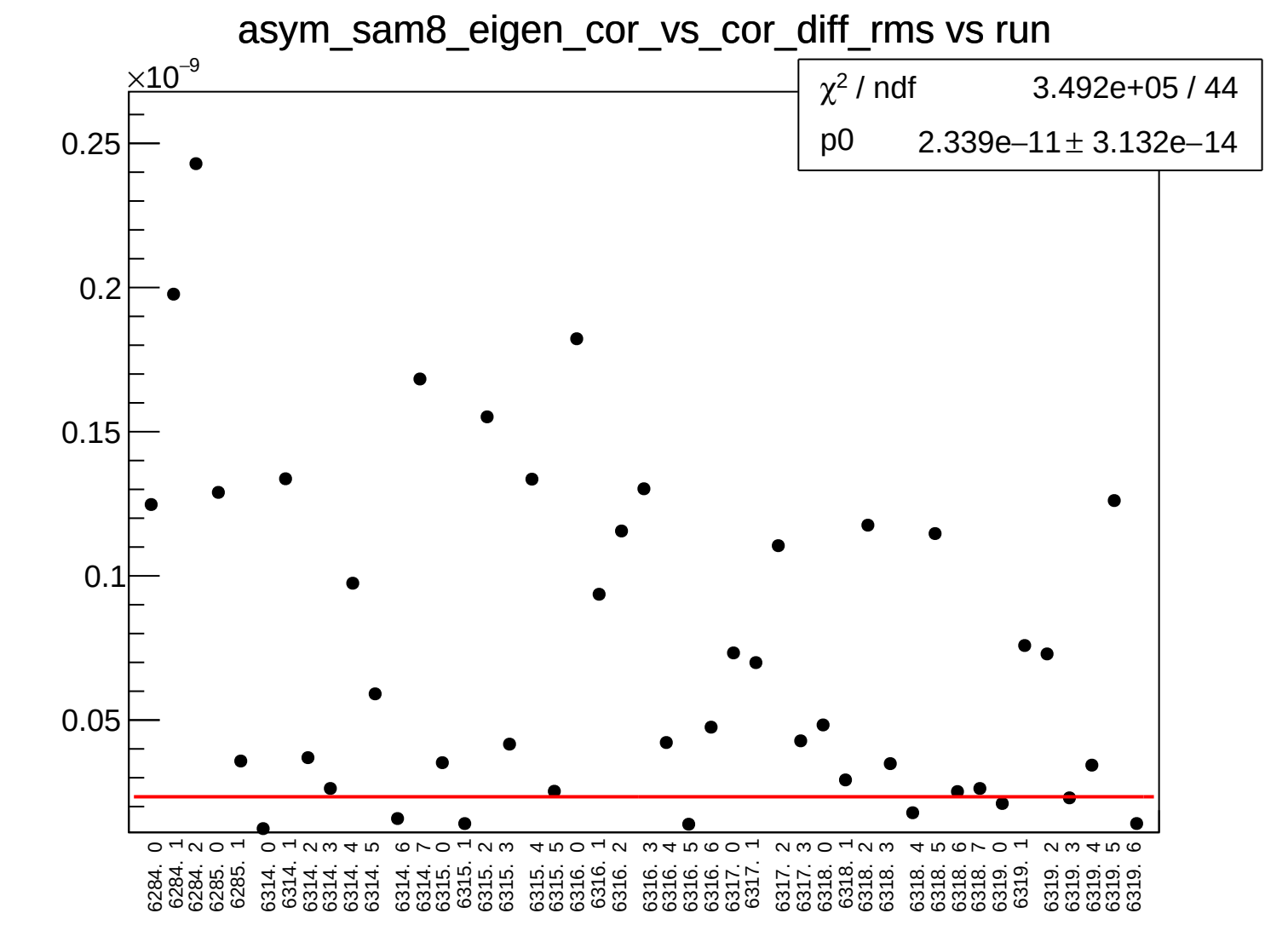

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.78 / 44
p0 0.01938 ± 0.03234
pull
Entries 45
Mean 33.24
Std Dev 0
pull1D
Entries 45
Mean −0.02088
Std Dev 1.03

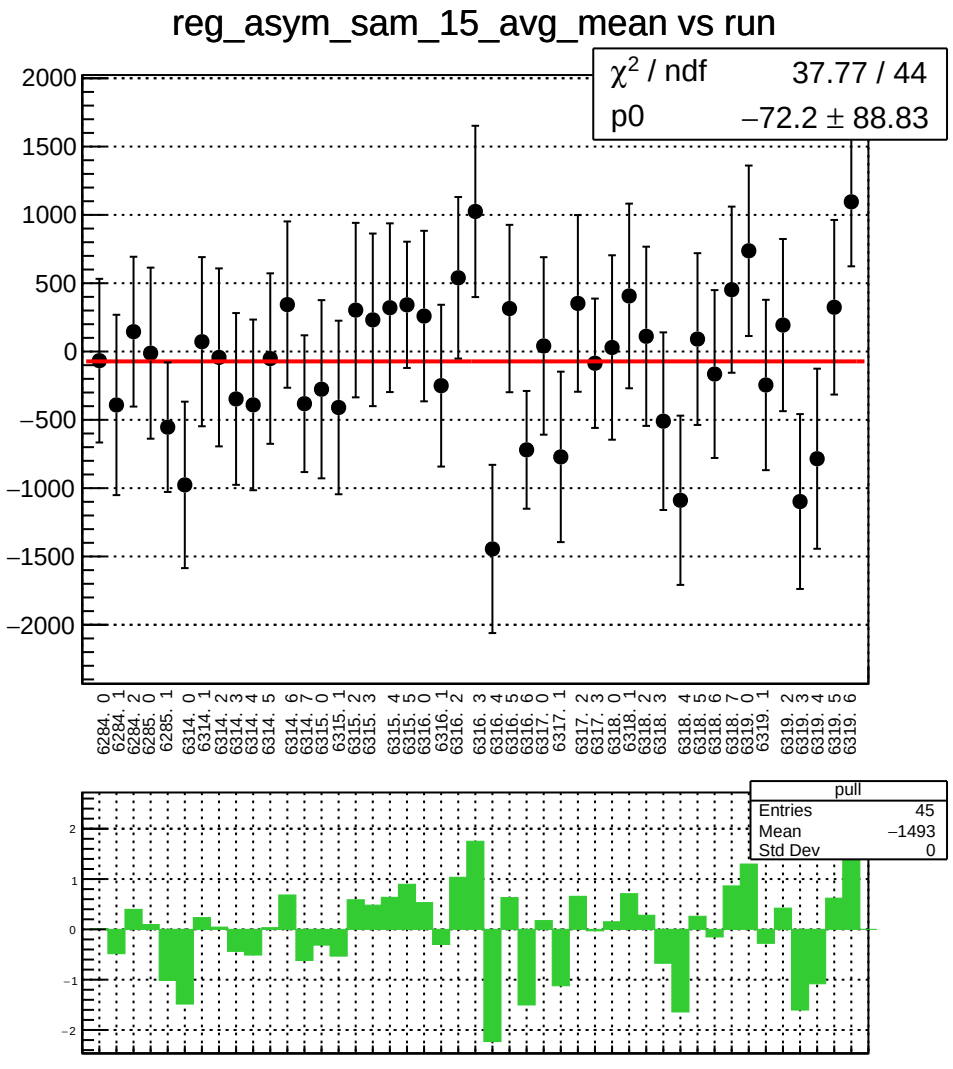

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.666e+04 / 44
p0 20.72 ± 0.02287
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

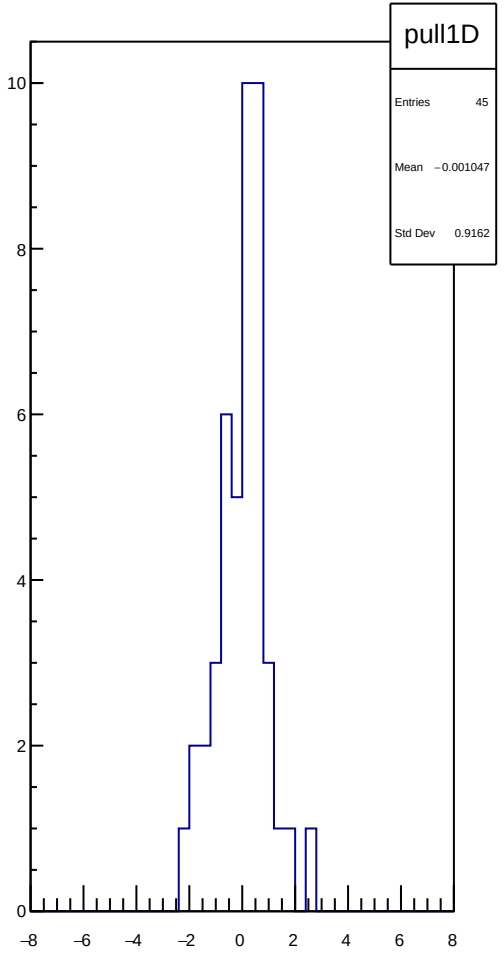

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.78 / 44
p0 0.01938 ± 0.03234
pull
Entries 45
Mean 33.24
Std Dev 0
pull1D
Entries 45
Mean −0.02088
Std Dev 1.03

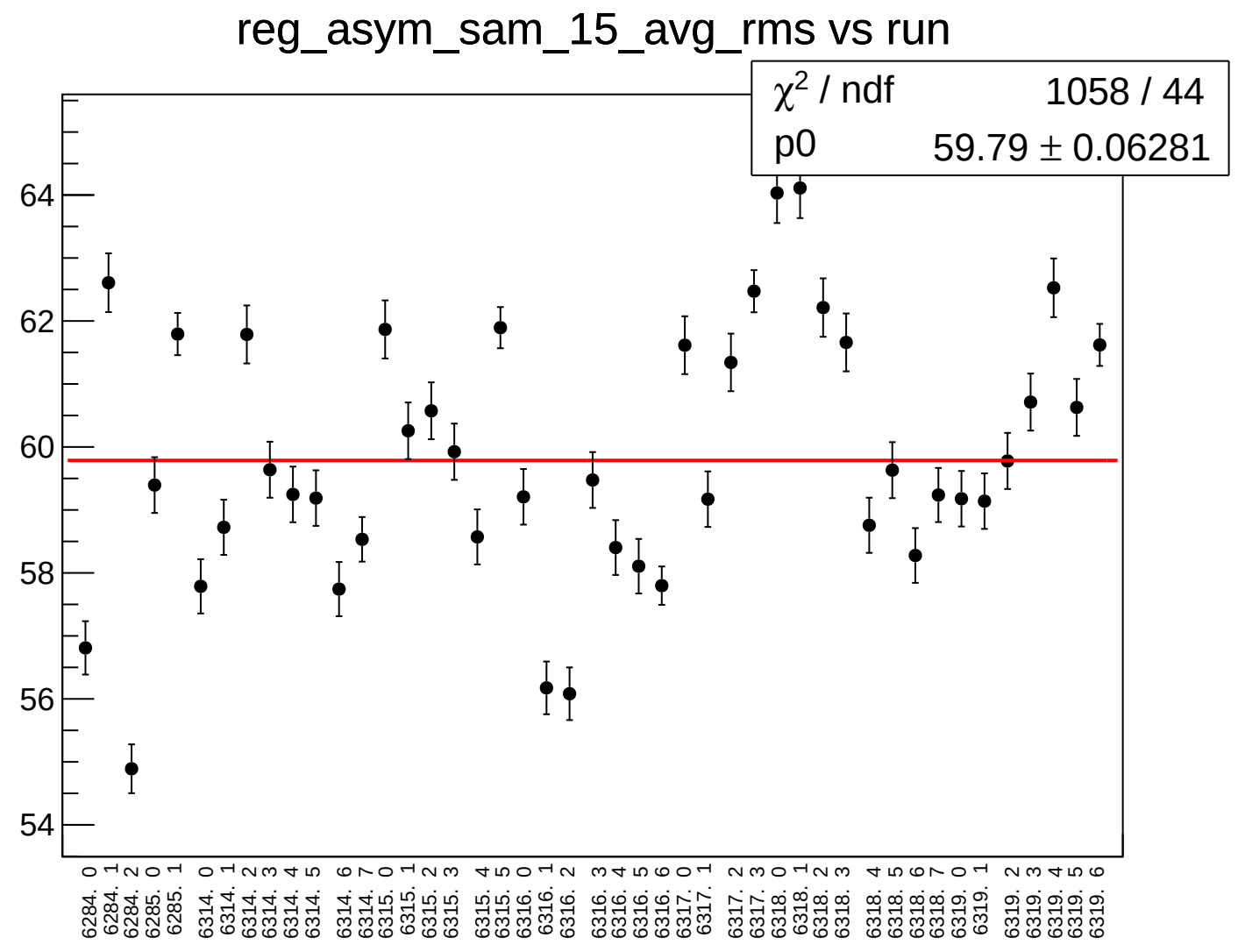

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.666e+04 / 44
p0 20.72 ± 0.02287
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

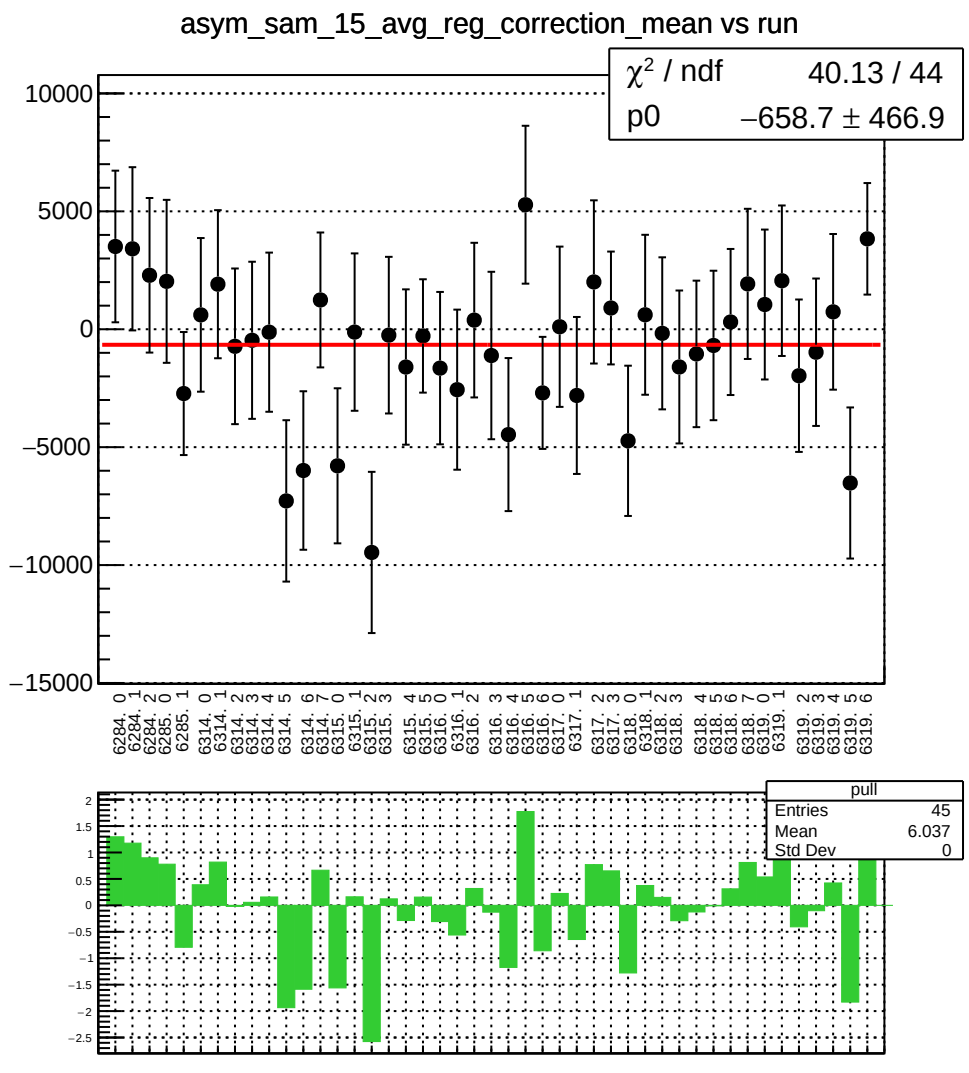

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27 / 44
p0 −3.221e−14 ± 4.429e−14
8
6
4
2
0
−2
−4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 57.62
Std Dev 14.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03607
Std Dev 0.7738
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

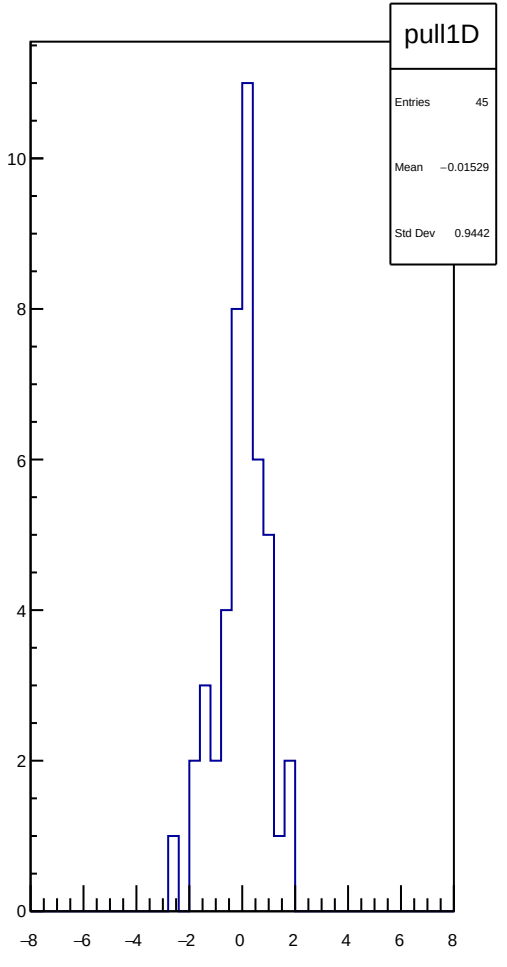

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.492e+05 / 44
p0 2.339e−11 ± 3.132e−14
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

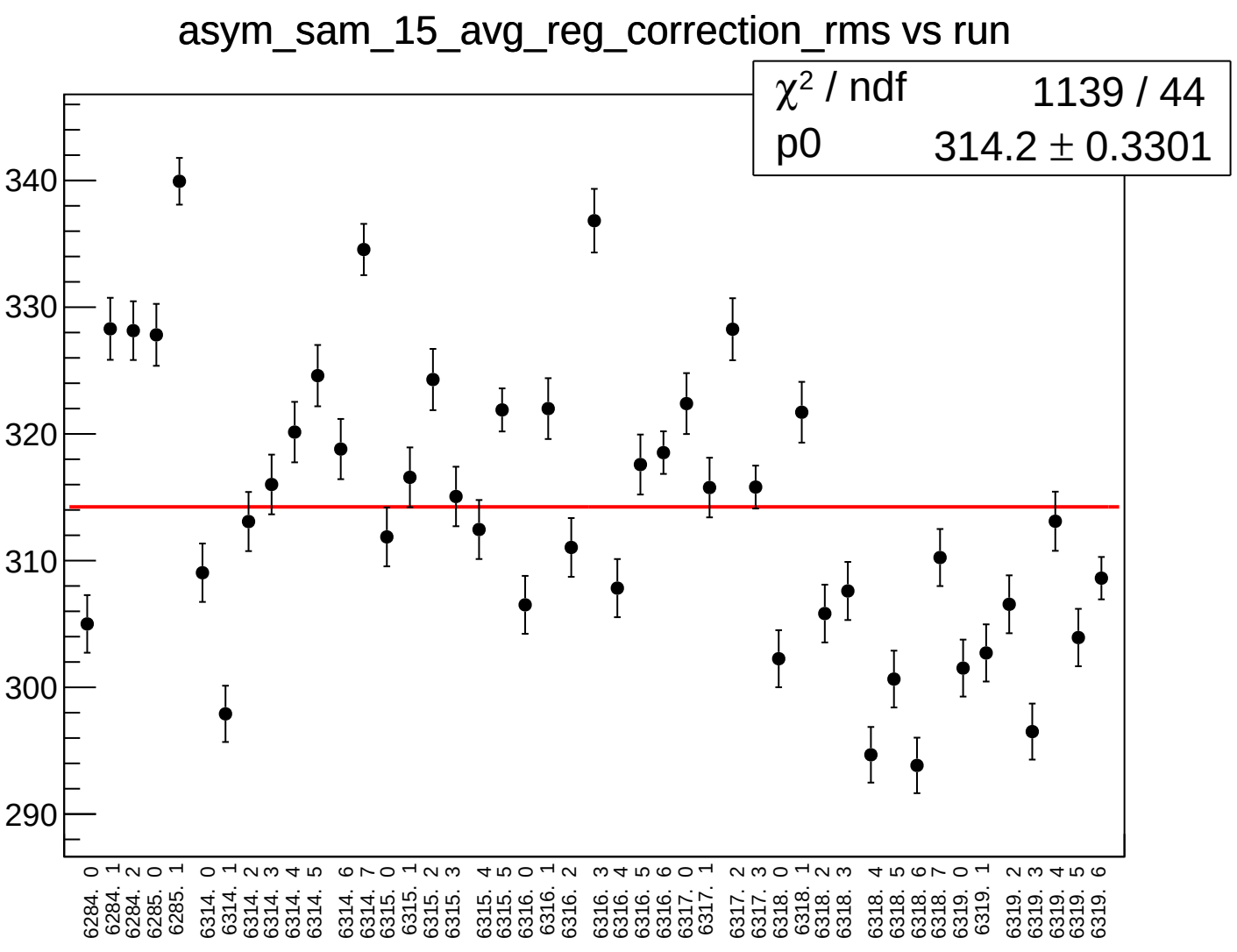

reg_asym_sam_15_avg_mean vs run
χ² / ndf 37.77 / 44
p0 −72.2 ± 88.83
pull
Entries 45
Mean −1493
Std Dev 0

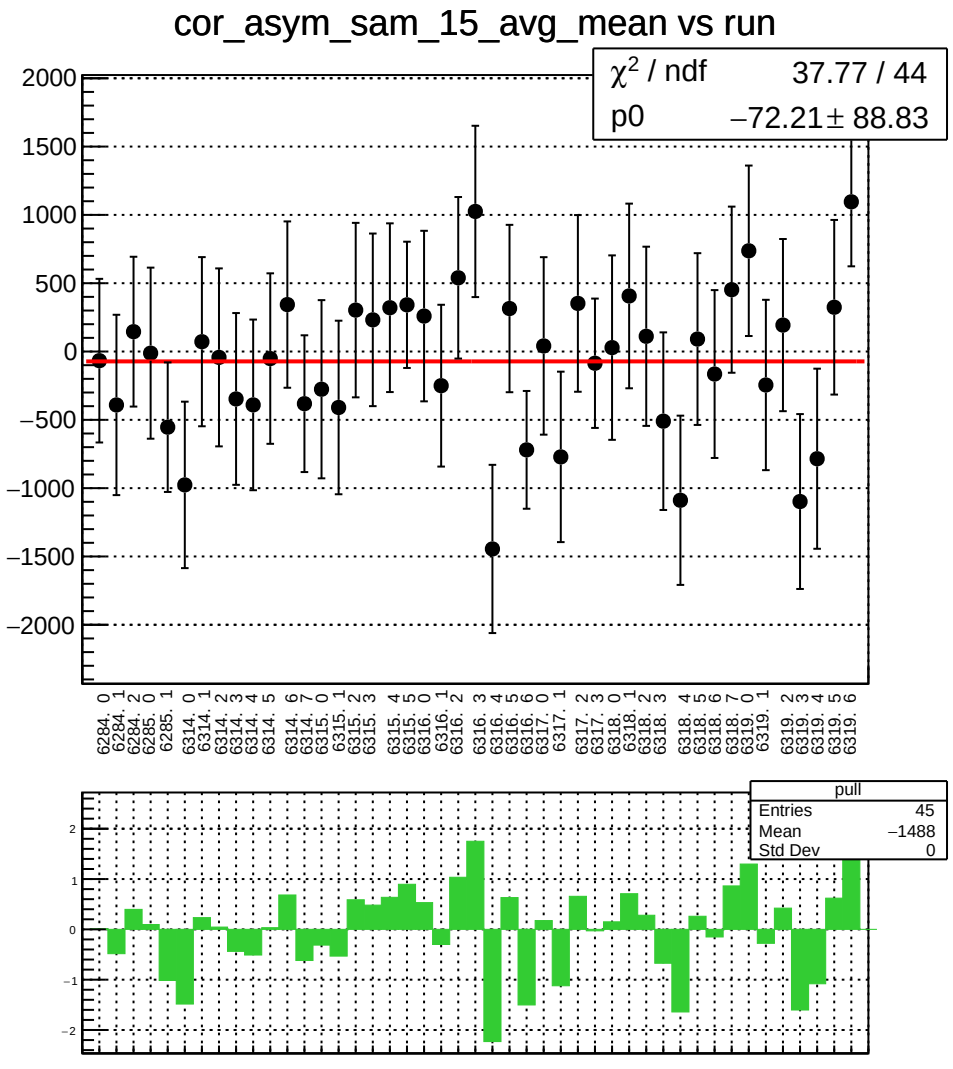

pull1D
Entries 45
Mean −0.001047
Std Dev 0.9162

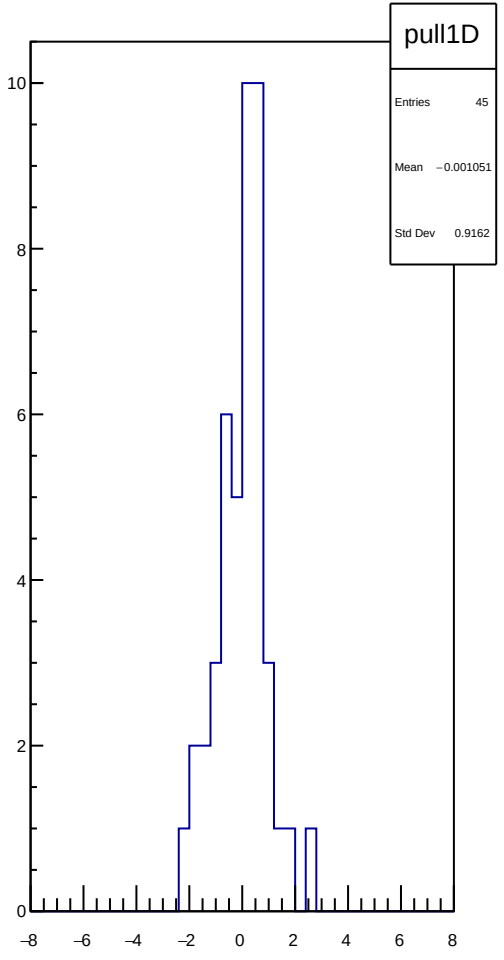

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1058 / 44
p0 59.79 ± 0.06281
64
62
60
58
56
54
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

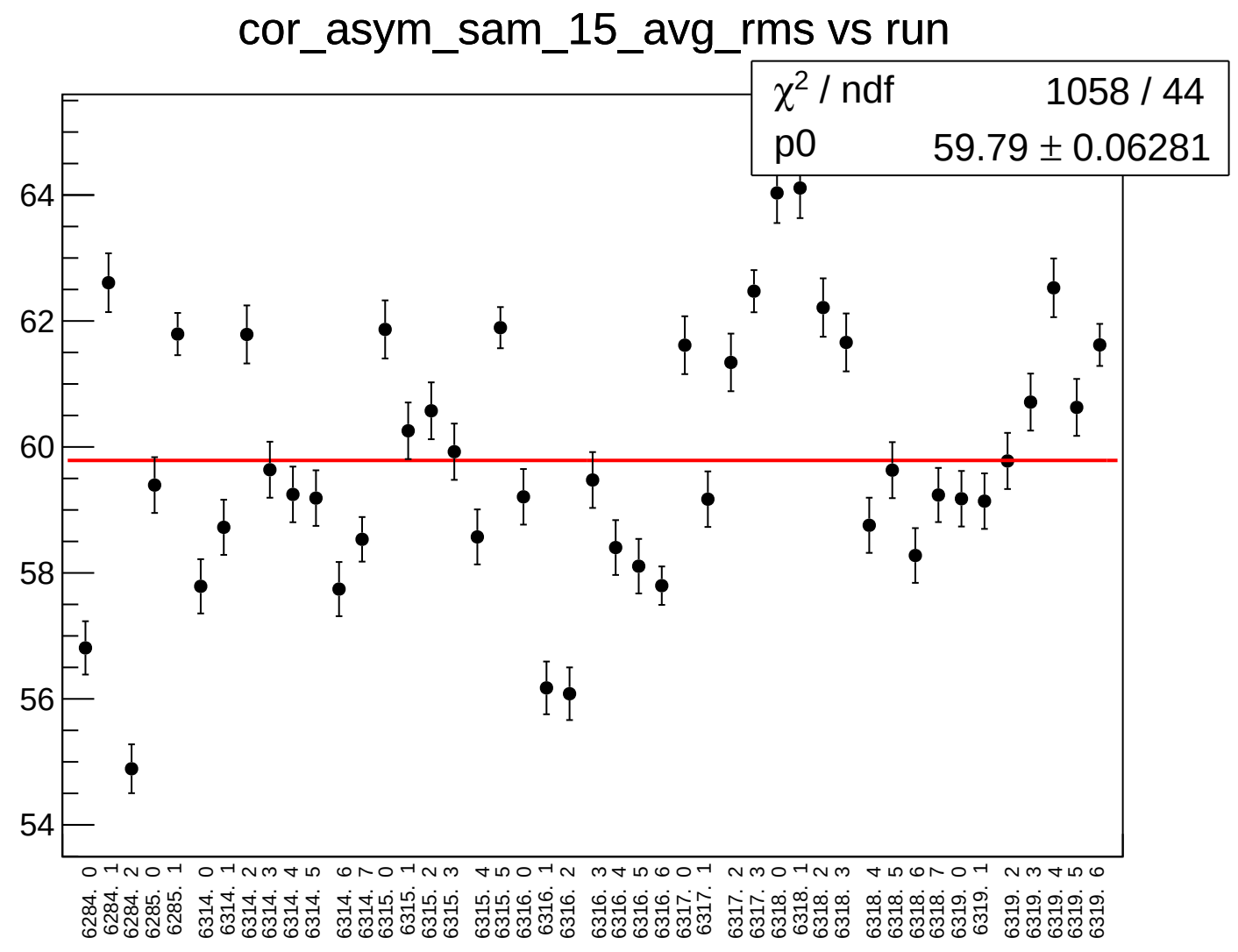

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 40.13 / 44
p0 −658.7 ± 466.9
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

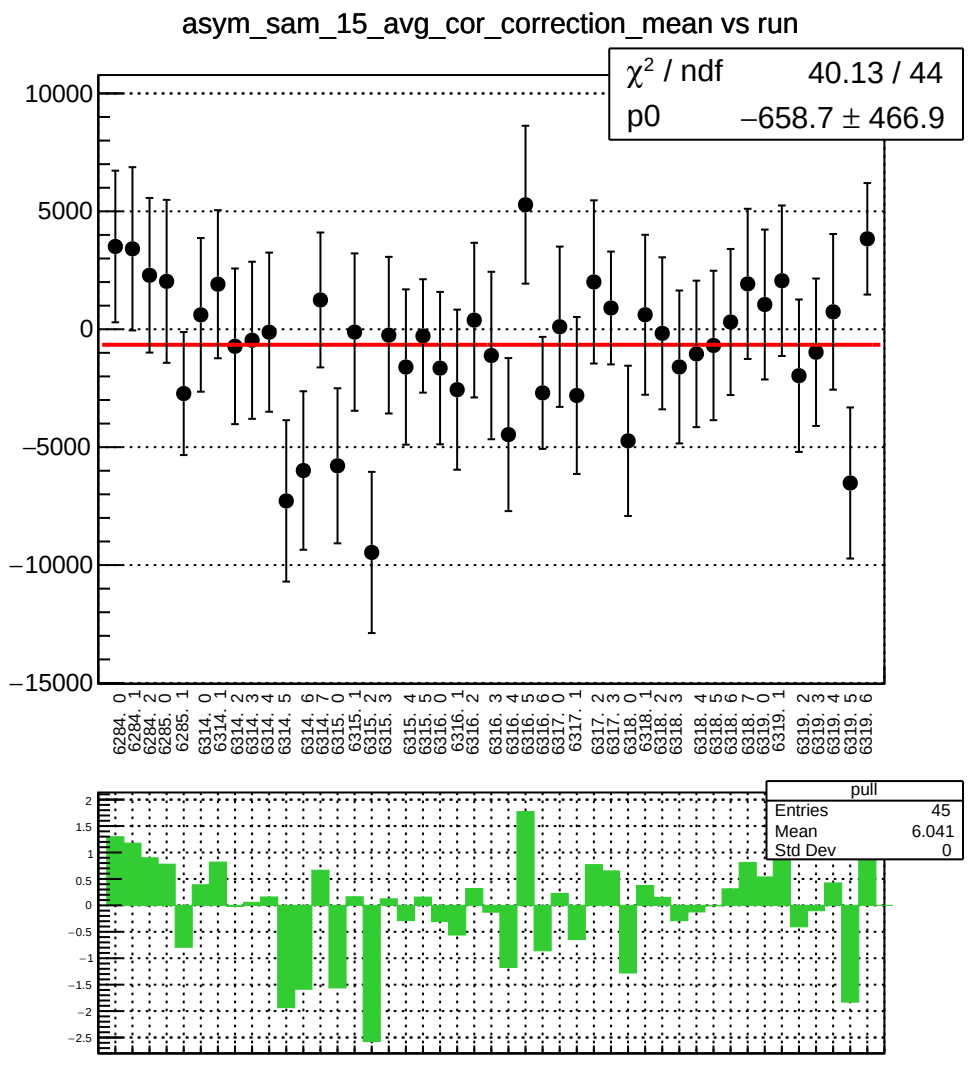

pull1D
Entries 45
Mean −0.01529
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

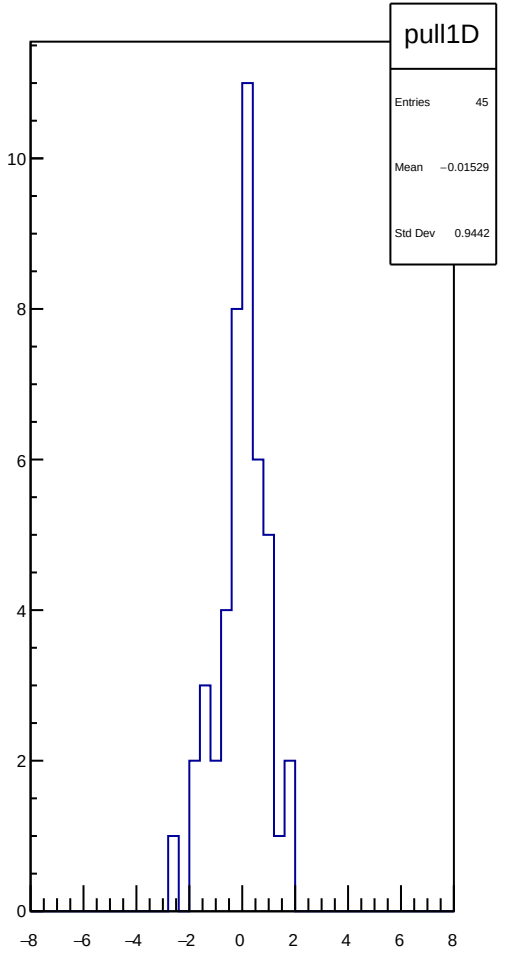

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1139 / 44
p0 314.2 ± 0.3301
340
330
320
310
300
290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

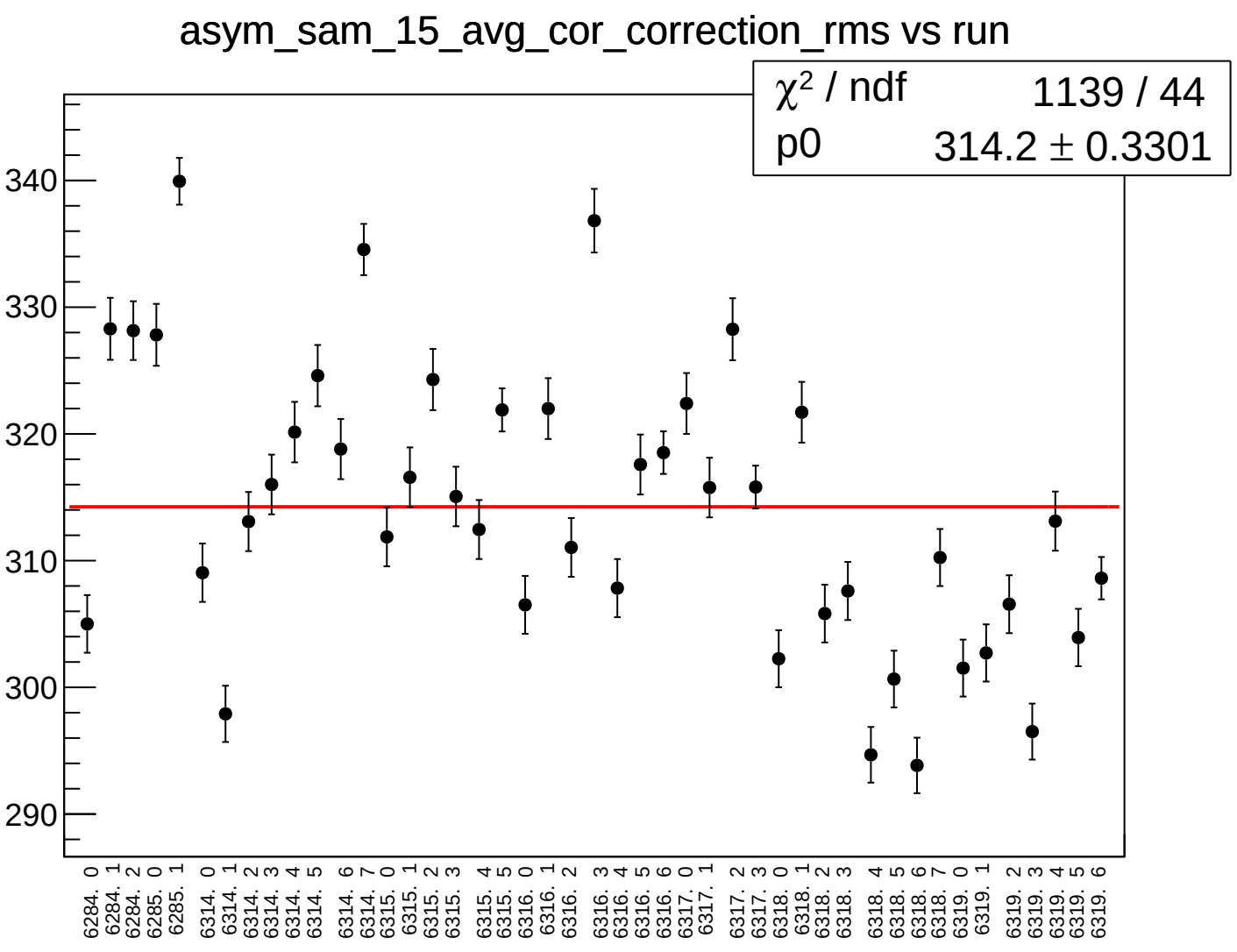

cor_asym_sam_15_avg_mean vs run
χ² / ndf 37.77 / 44
p0 −72.21 ± 88.83
pull
Entries 45
Mean −1488
Std Dev 0


pull1D
Entries 45
Mean −0.001051
Std Dev 0.9162


cor_asym_sam_15_avg_rms vs run
χ² / ndf 1058 / 44
p0 59.79 ± 0.06281
64
62
60
58
56
54
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 40.13 / 44
p0 −658.7 ± 466.9
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.041
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01529
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1139 / 44
p0 314.2 ± 0.3301
340
330
320
310
300
290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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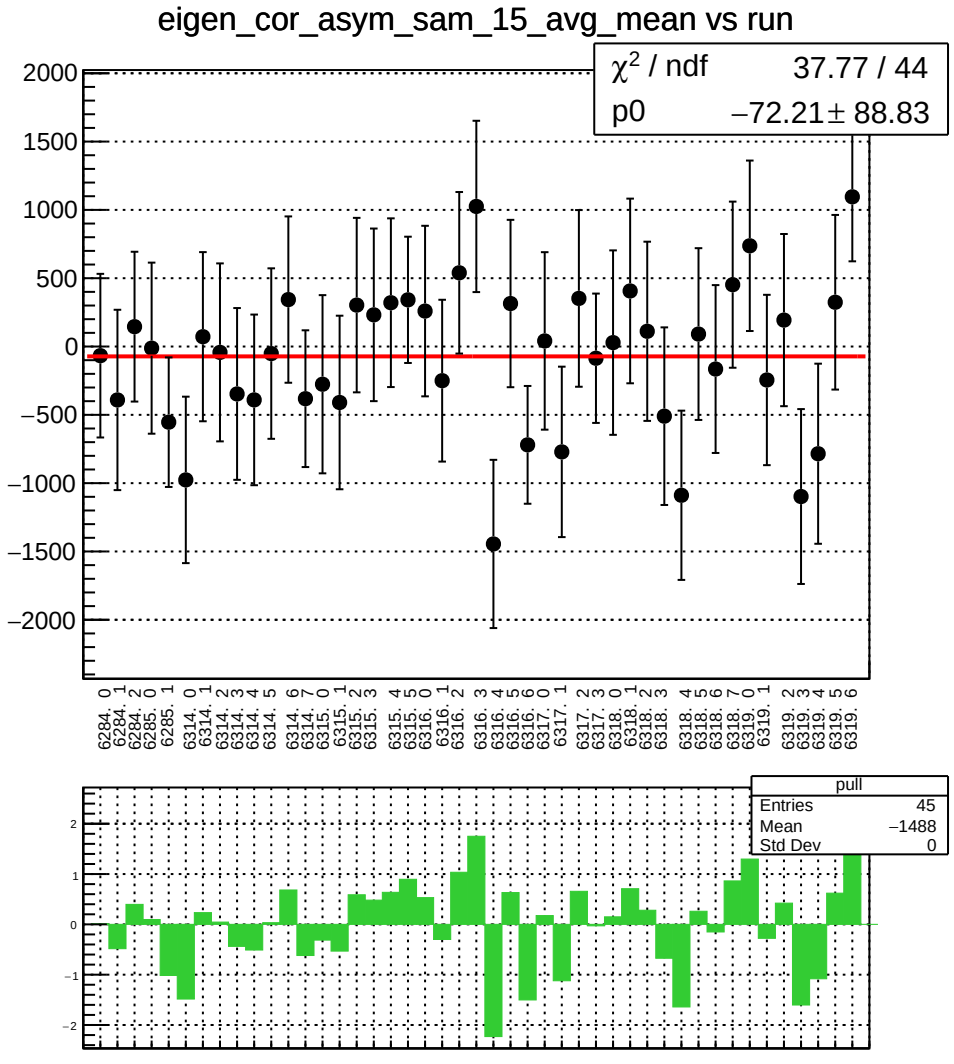
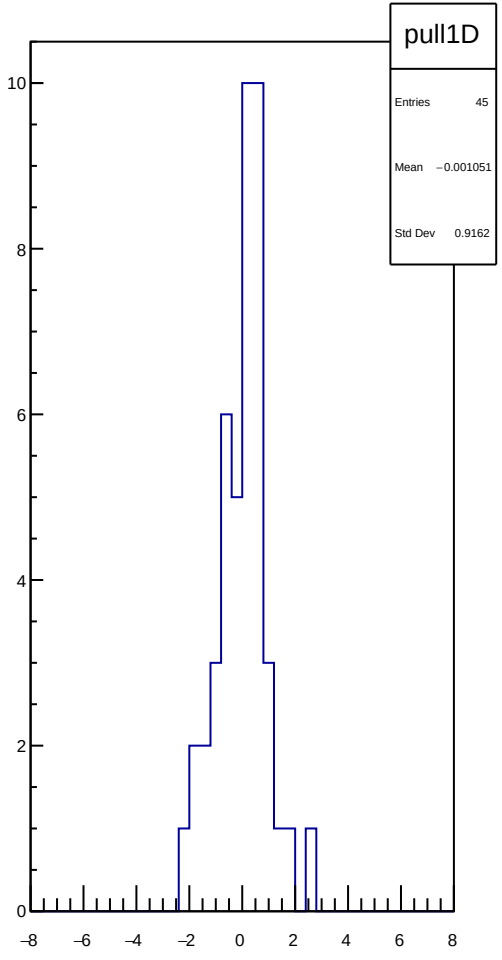
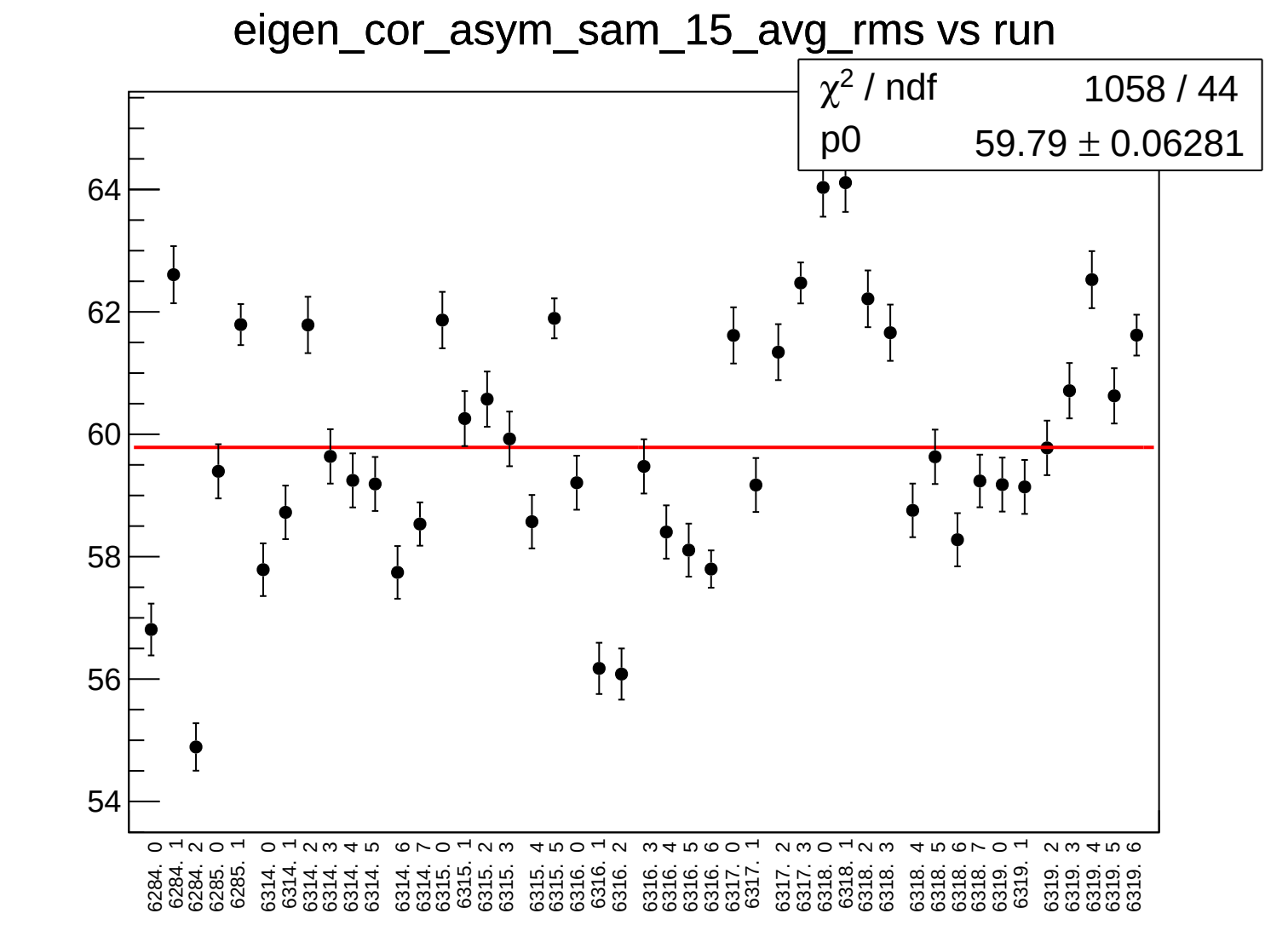
6319. 5
6319. 6


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 37.77 / 44
p0 −72.21 ± 88.83
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1488
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001051
Std Dev 0.9162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1058 / 44
p0 59.79 ± 0.06281
64
62
60
58
56
54
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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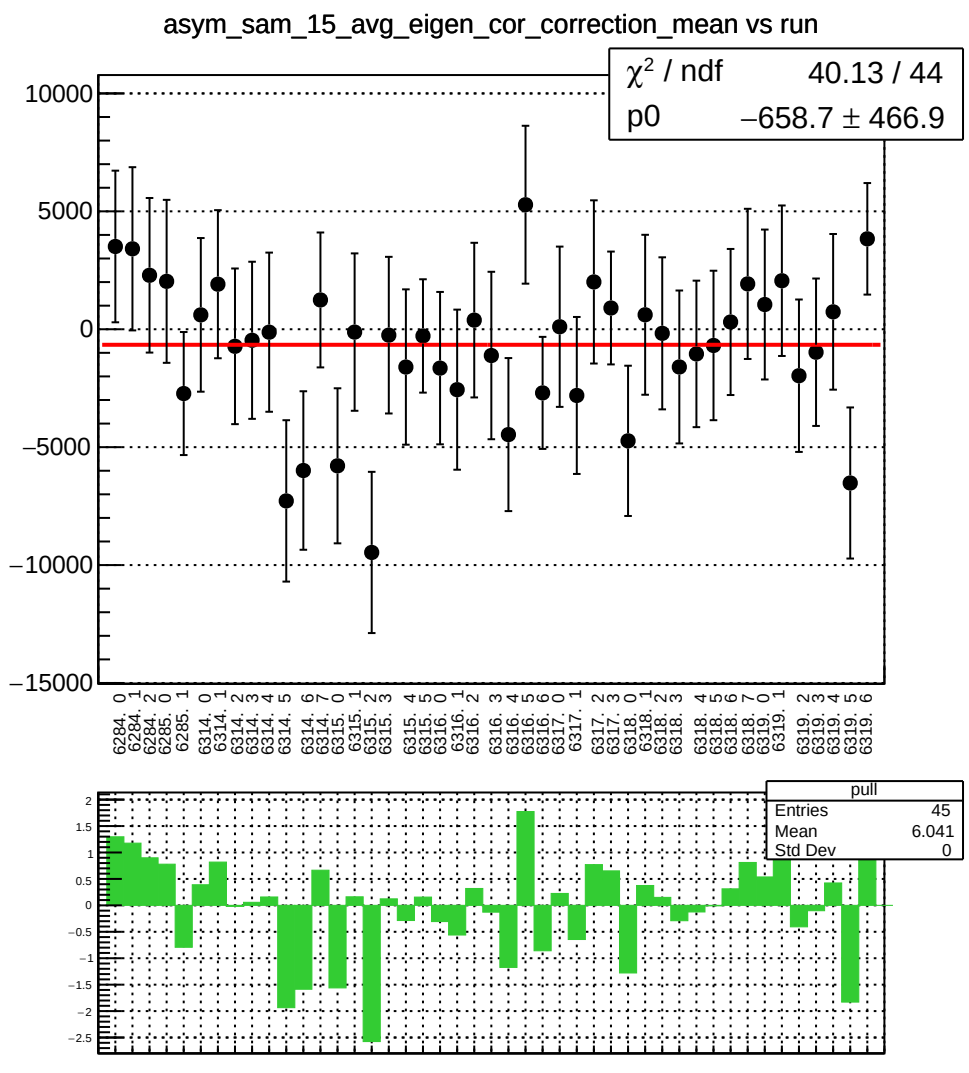
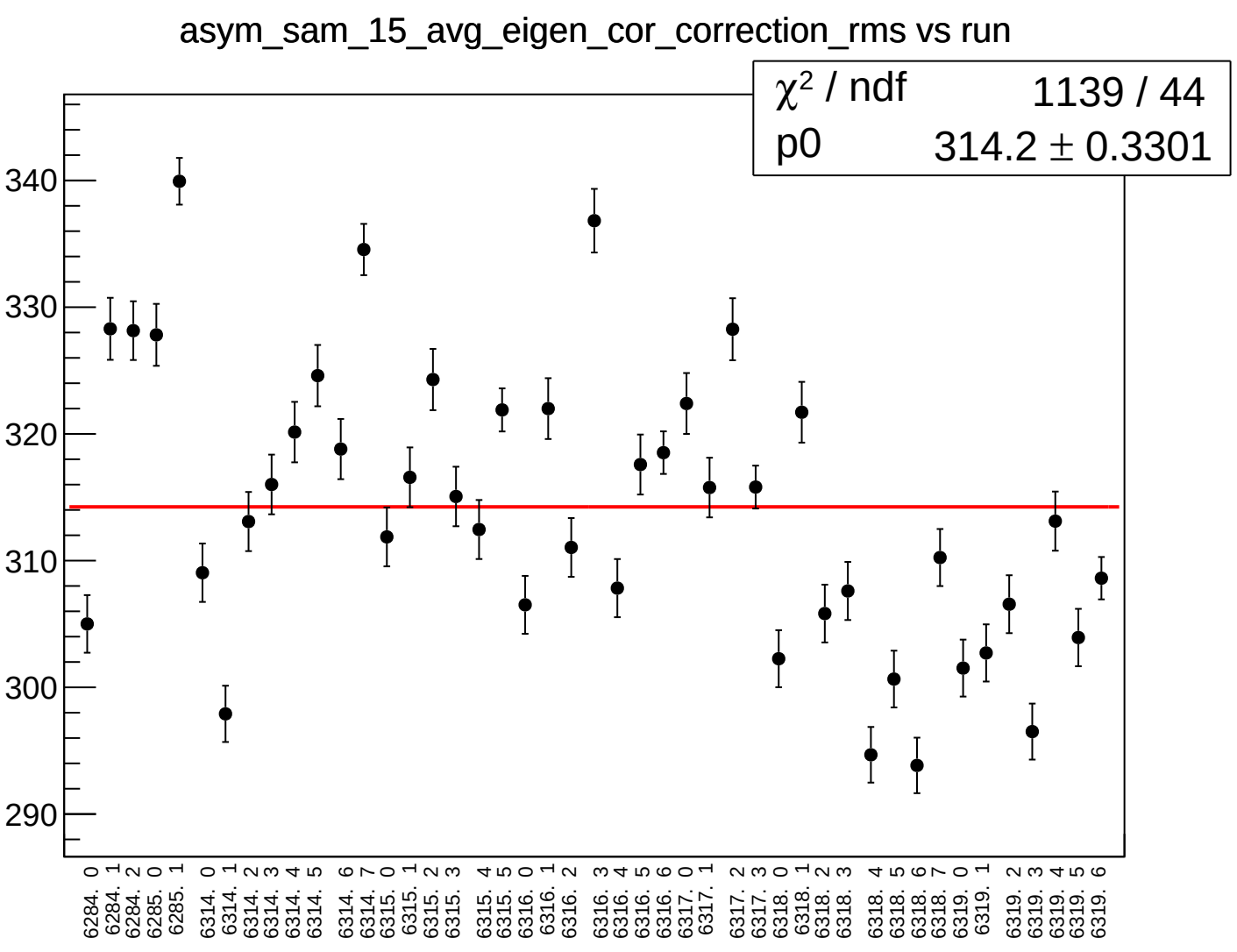
6319. 5
6319. 6


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.13 / 44
p0 −658.7 ± 466.9
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.041
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01529
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1139 / 44
p0 314.2 ± 0.3301
340
330
320
310
300
290
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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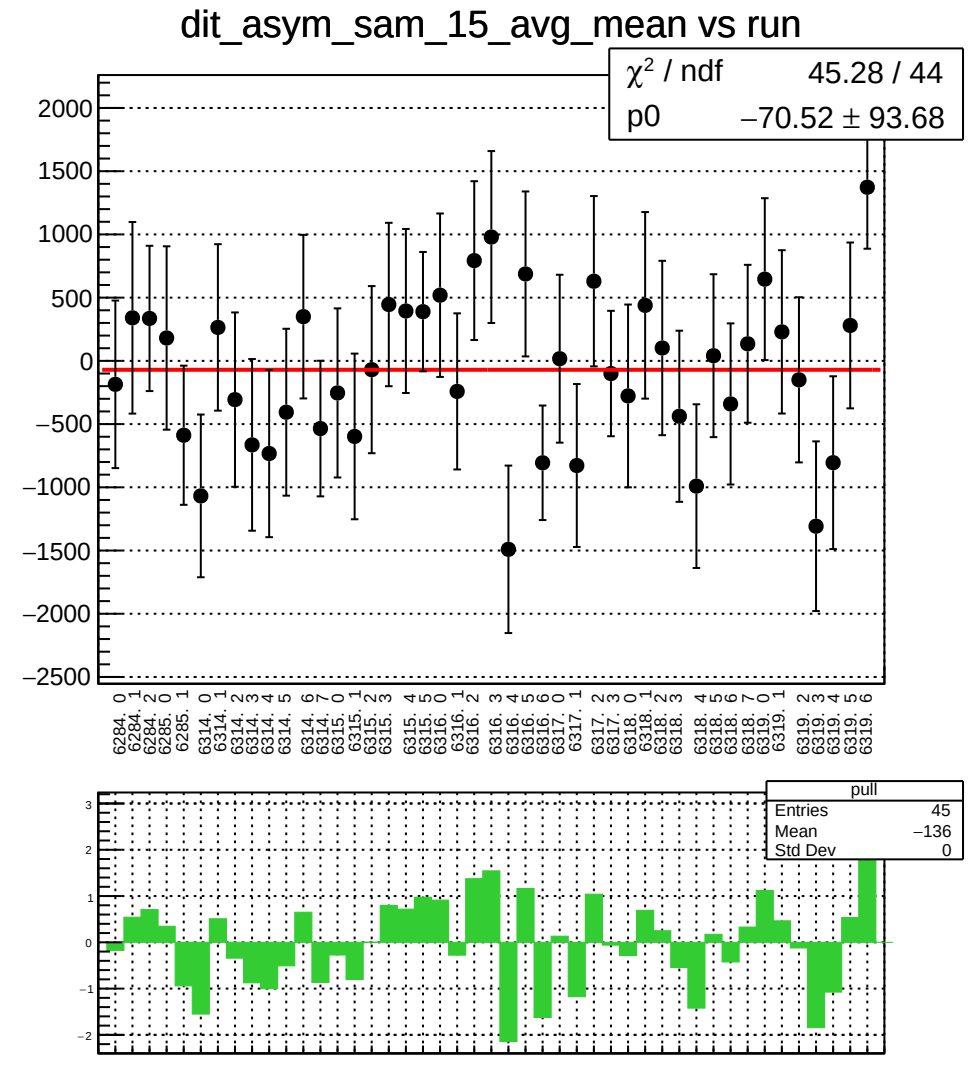
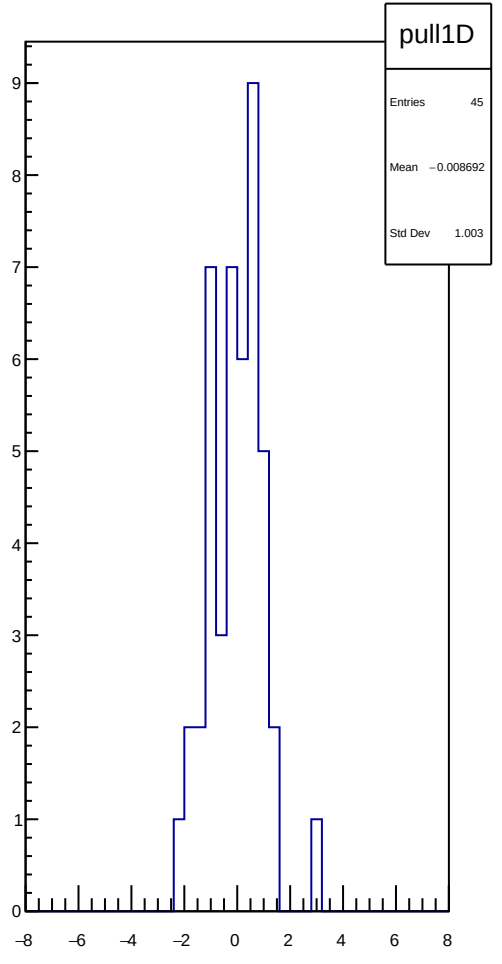
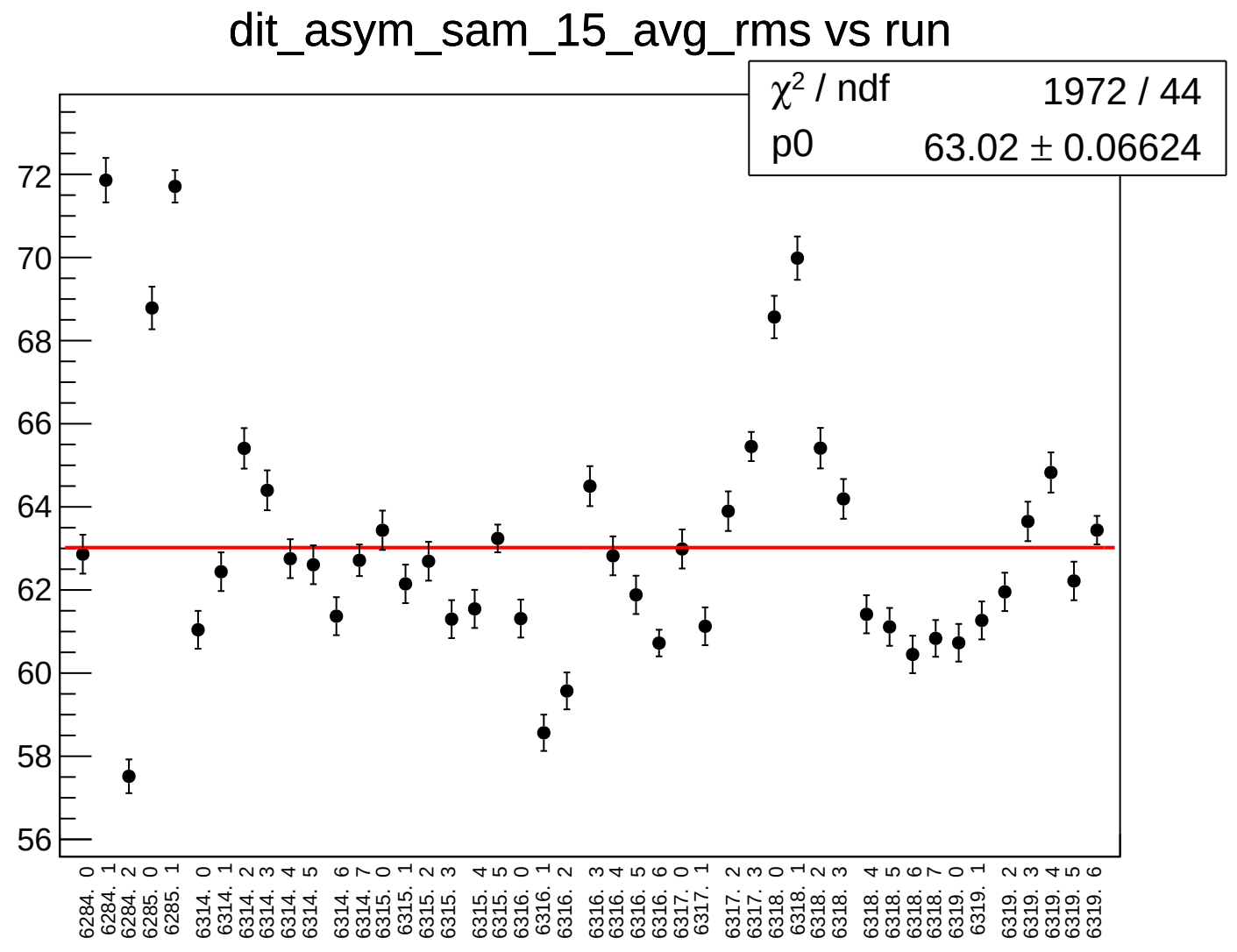
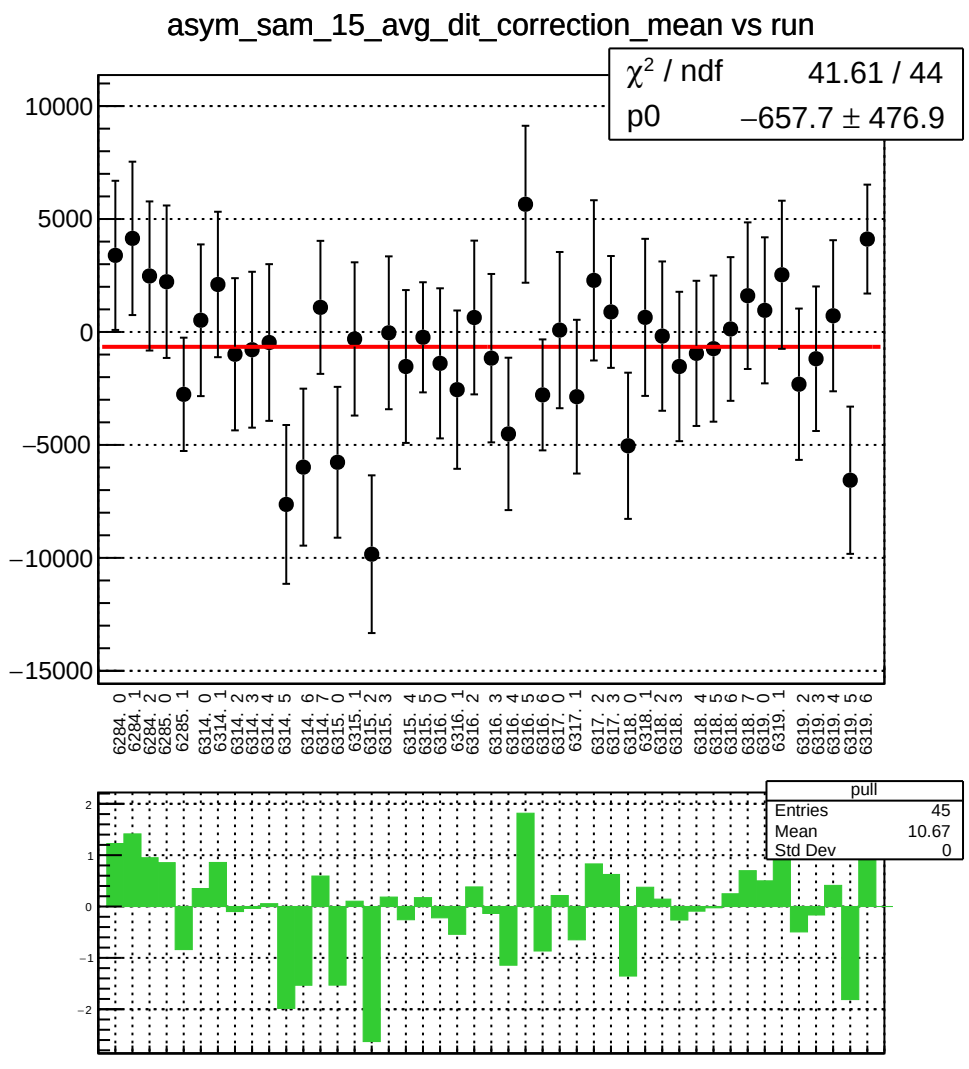
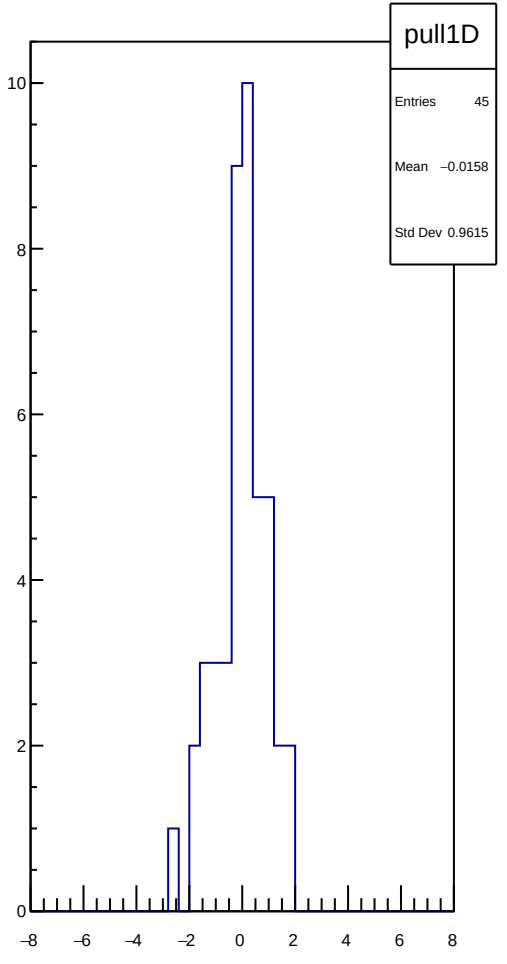
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

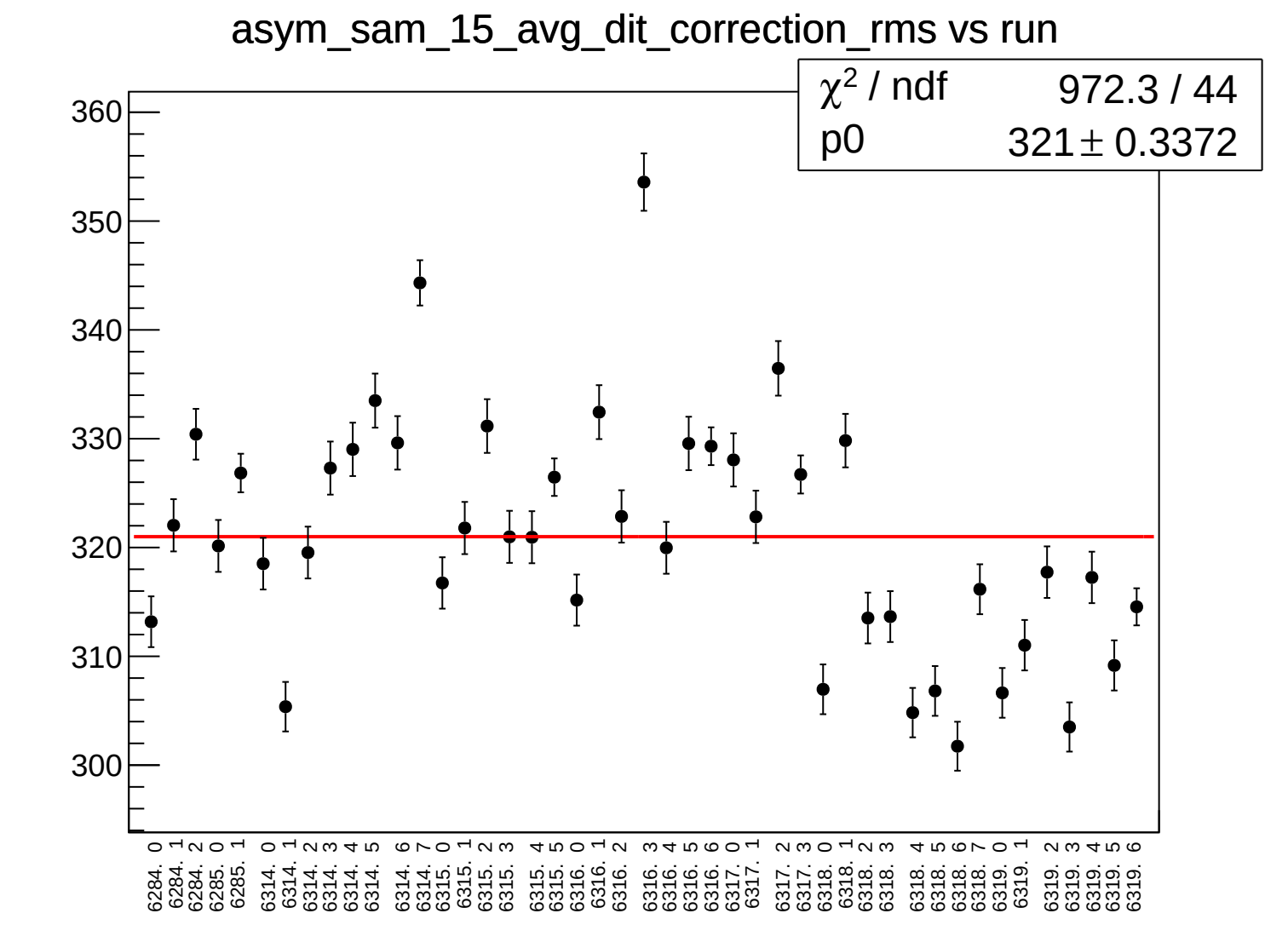

dit_asym_sam_15_avg_mean vs run
χ² / ndf 45.28 / 44
p0 −70.52 ± 93.68
pull
Entries 45
Mean −136
Std Dev 0

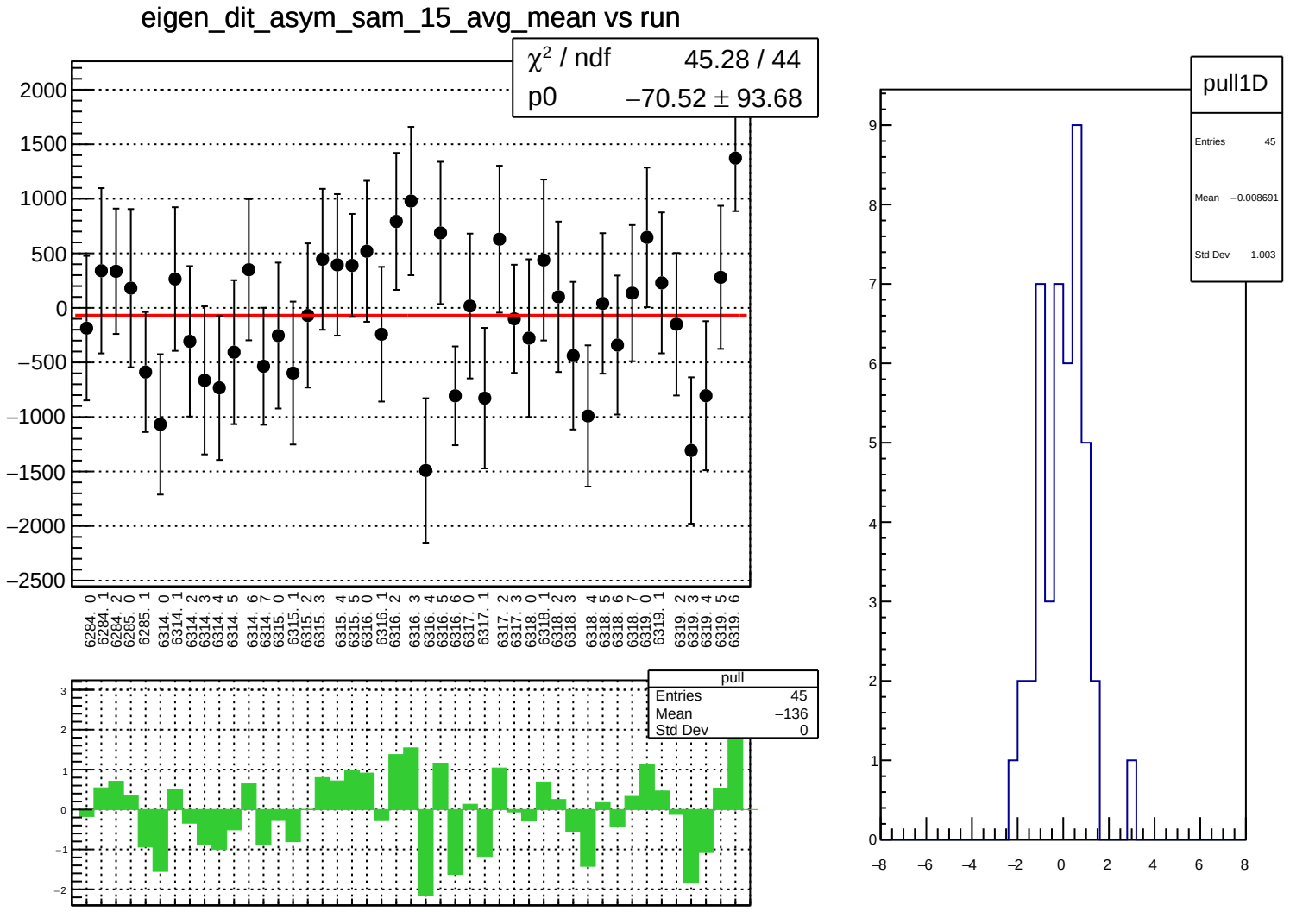

pull1D
Entries 45
Mean −0.008692
Std Dev 1.003

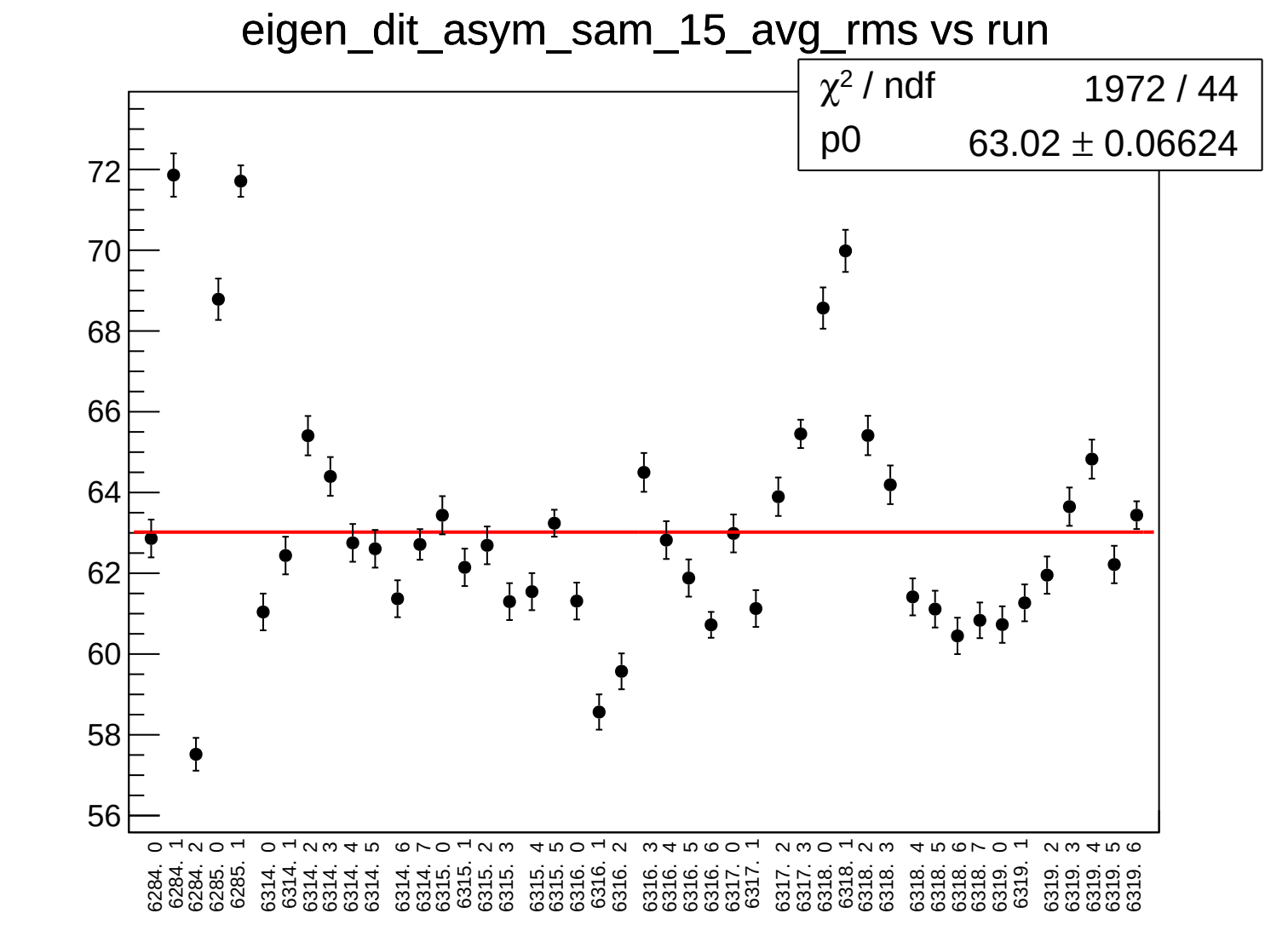

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1972 / 44
p0 63.02 ± 0.06624
72
70
68
66
64
62
60
58
56
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

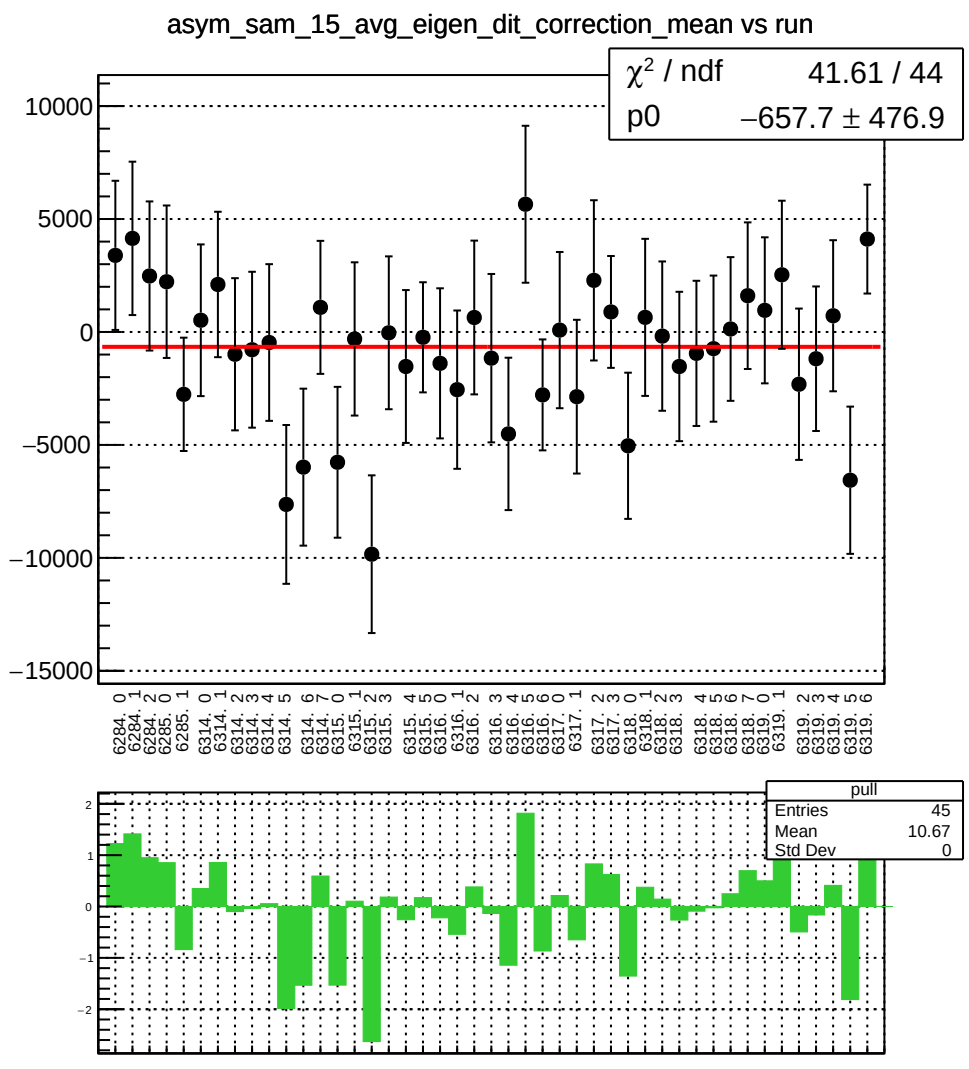

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 41.61 / 44
p0 −657.7 ± 476.9
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.67
Std Dev 0
2
1
0
−1
−2

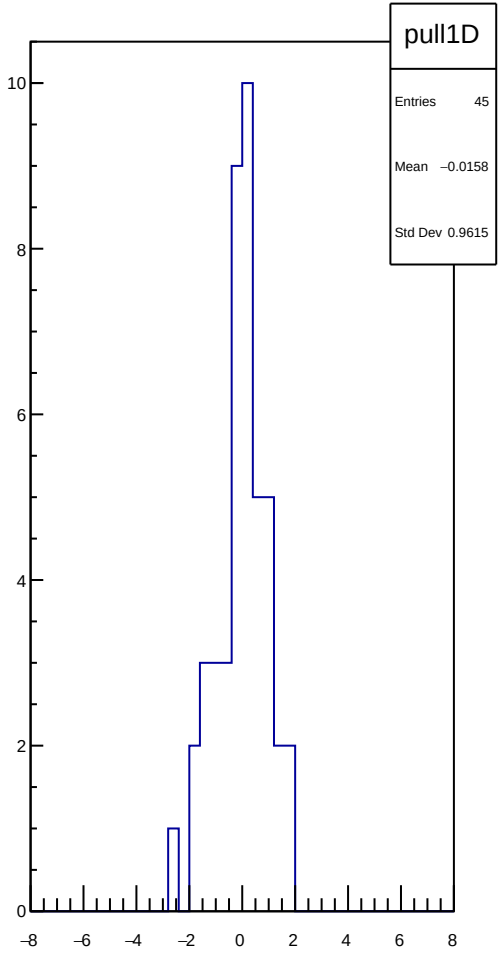

pull1D
Entries 45
Mean −0.0158
Std Dev 0.9615
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

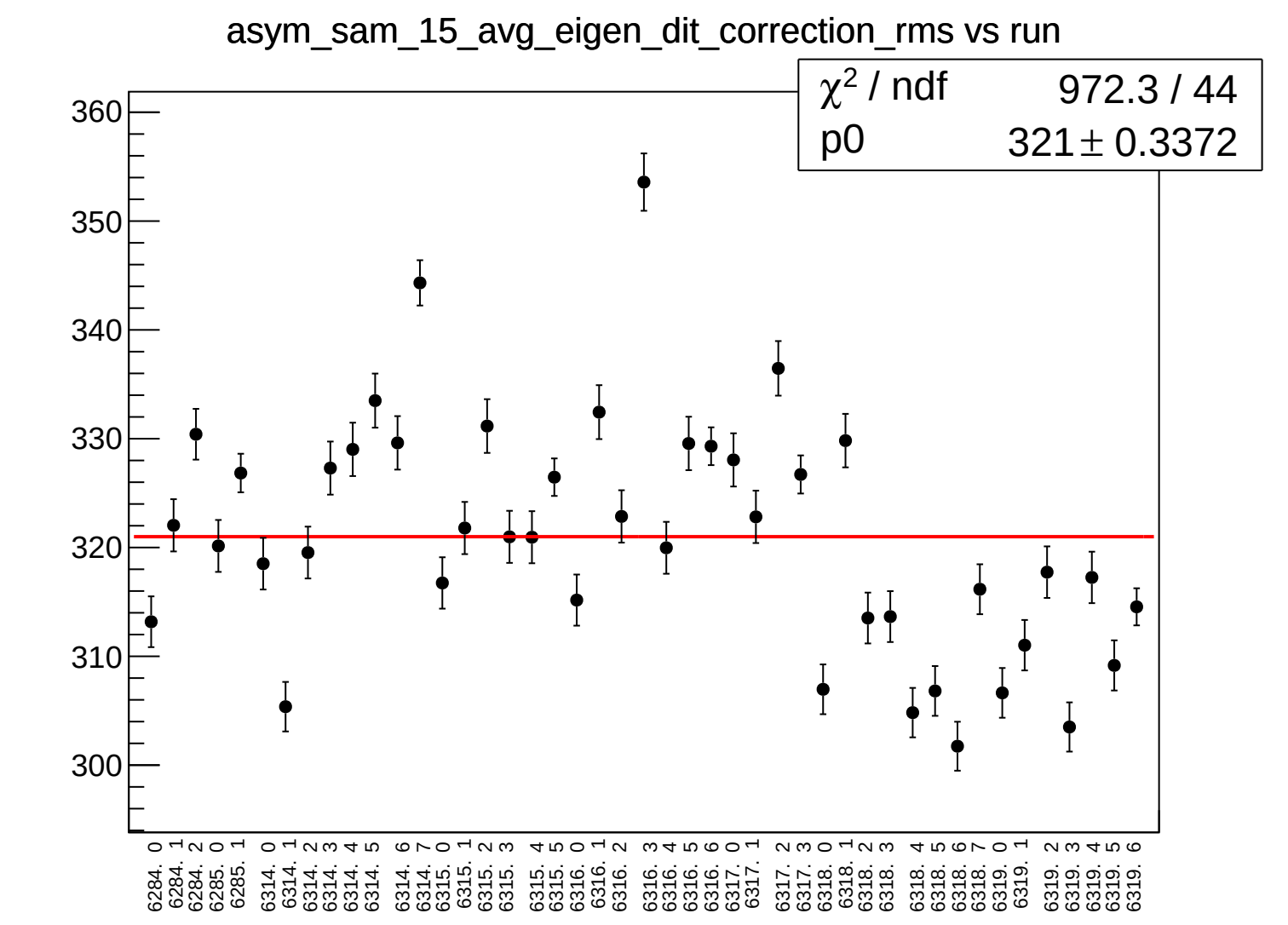

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 972.3 / 44
p0 321 ± 0.3372
360
350
340
330
320
310
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

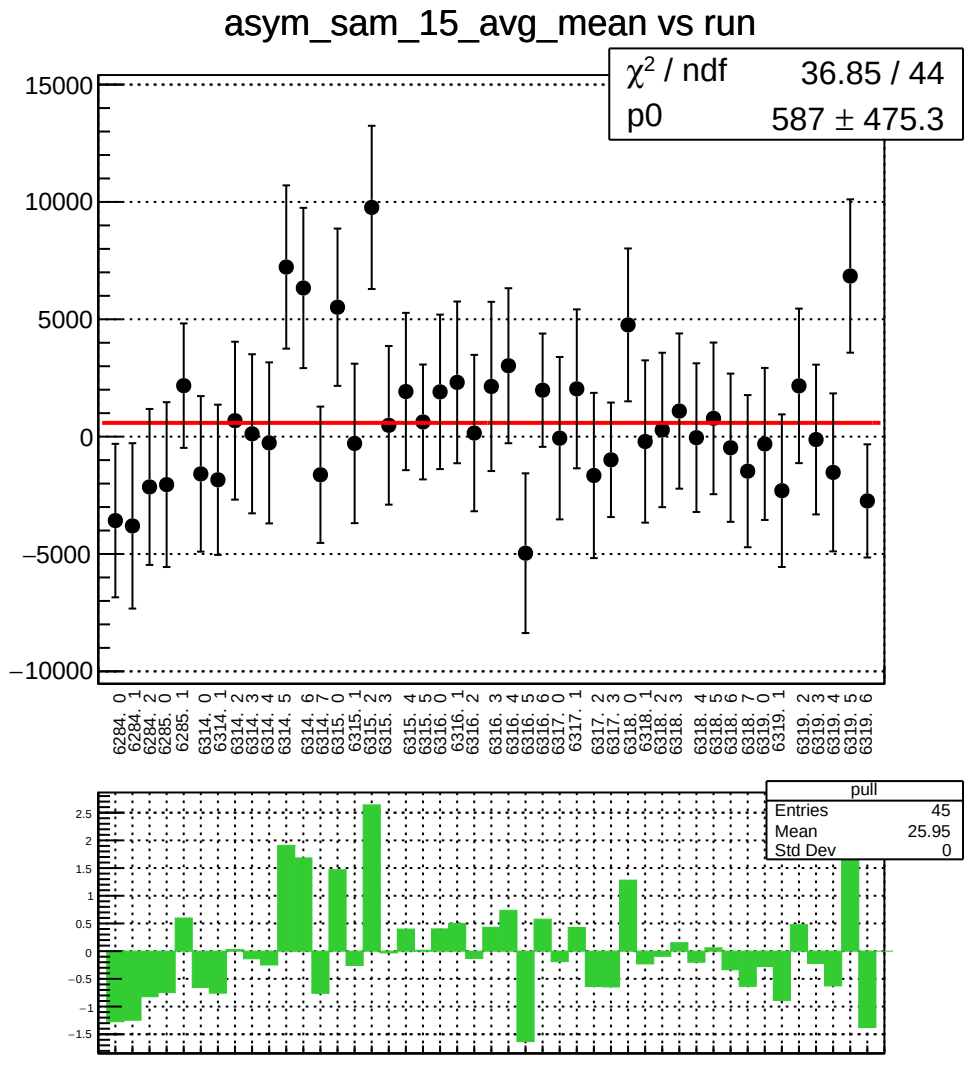

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 45.28 / 44
p0 −70.52 ± 93.68
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −136
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.008691
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

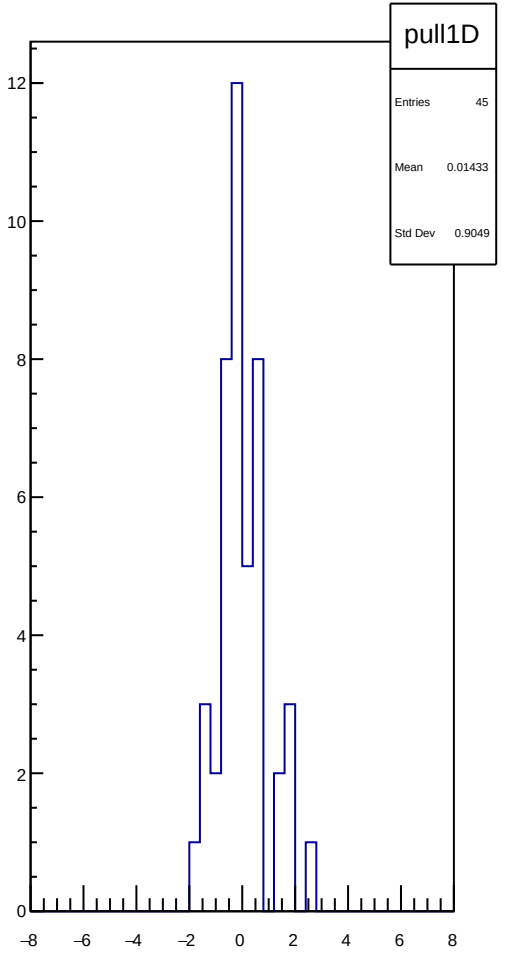

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1972 / 44
p0 63.02 ± 0.06624
72
70
68
66
64
62
60
58
56
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

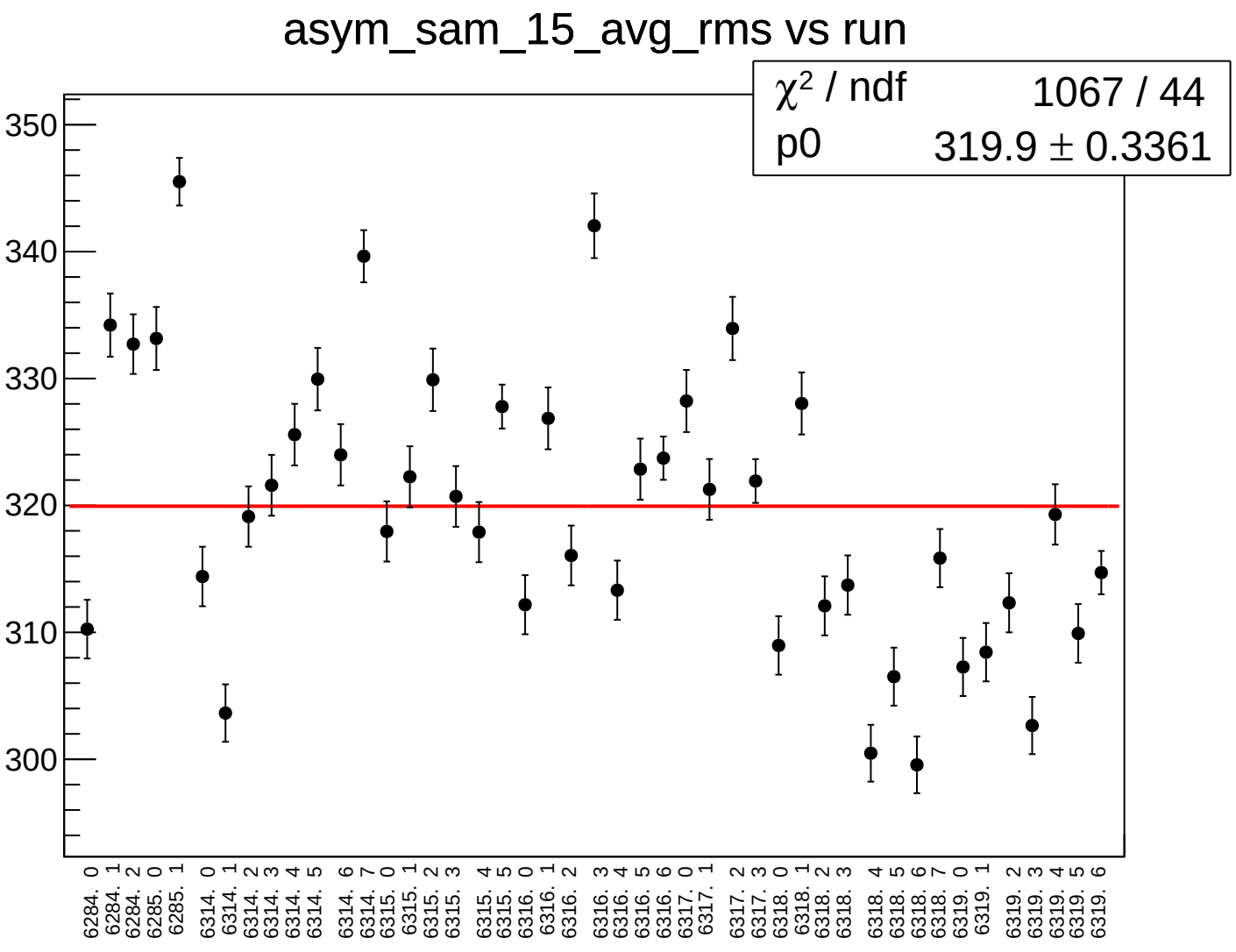

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.61 / 44
p0 −657.7 ± 476.9
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.67
Std Dev 0
2
1
0
−1
−2

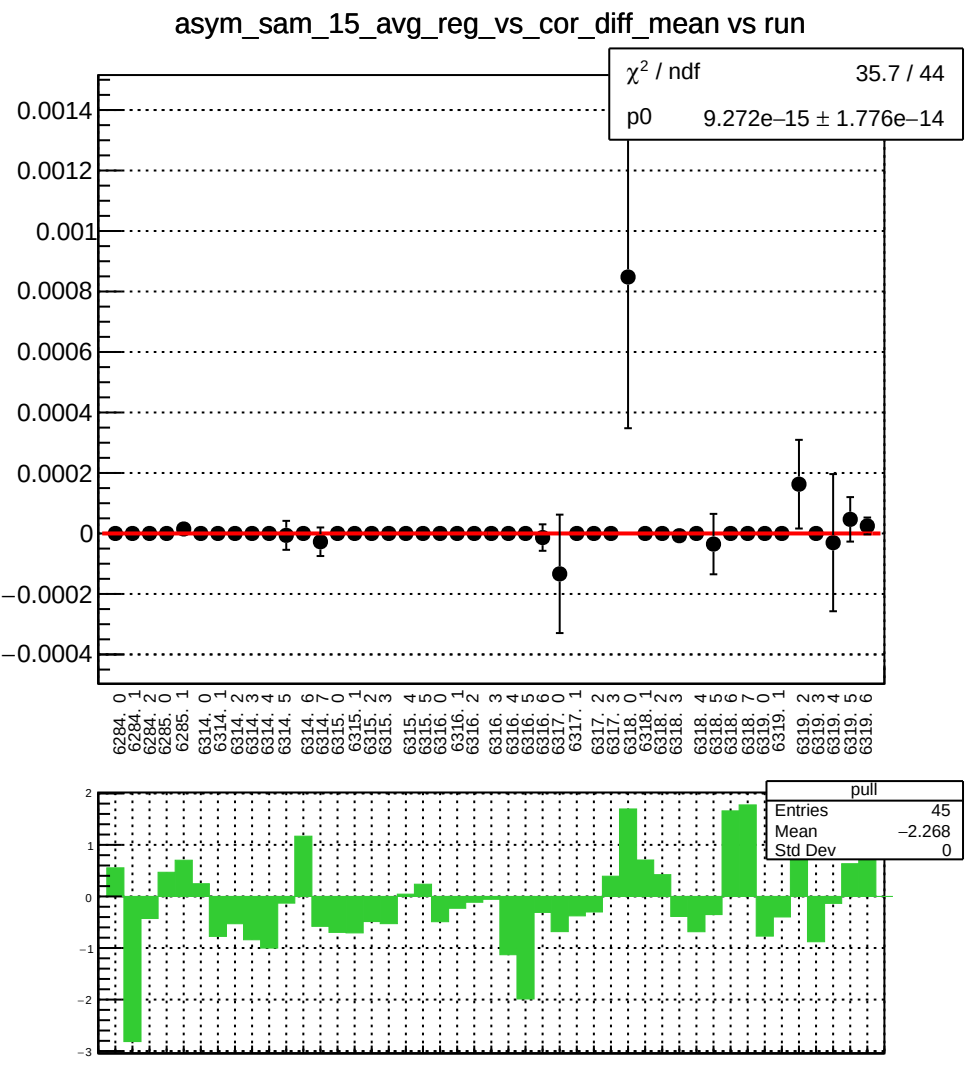

pull1D
Entries 45
Mean −0.0158
Std Dev 0.9615
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

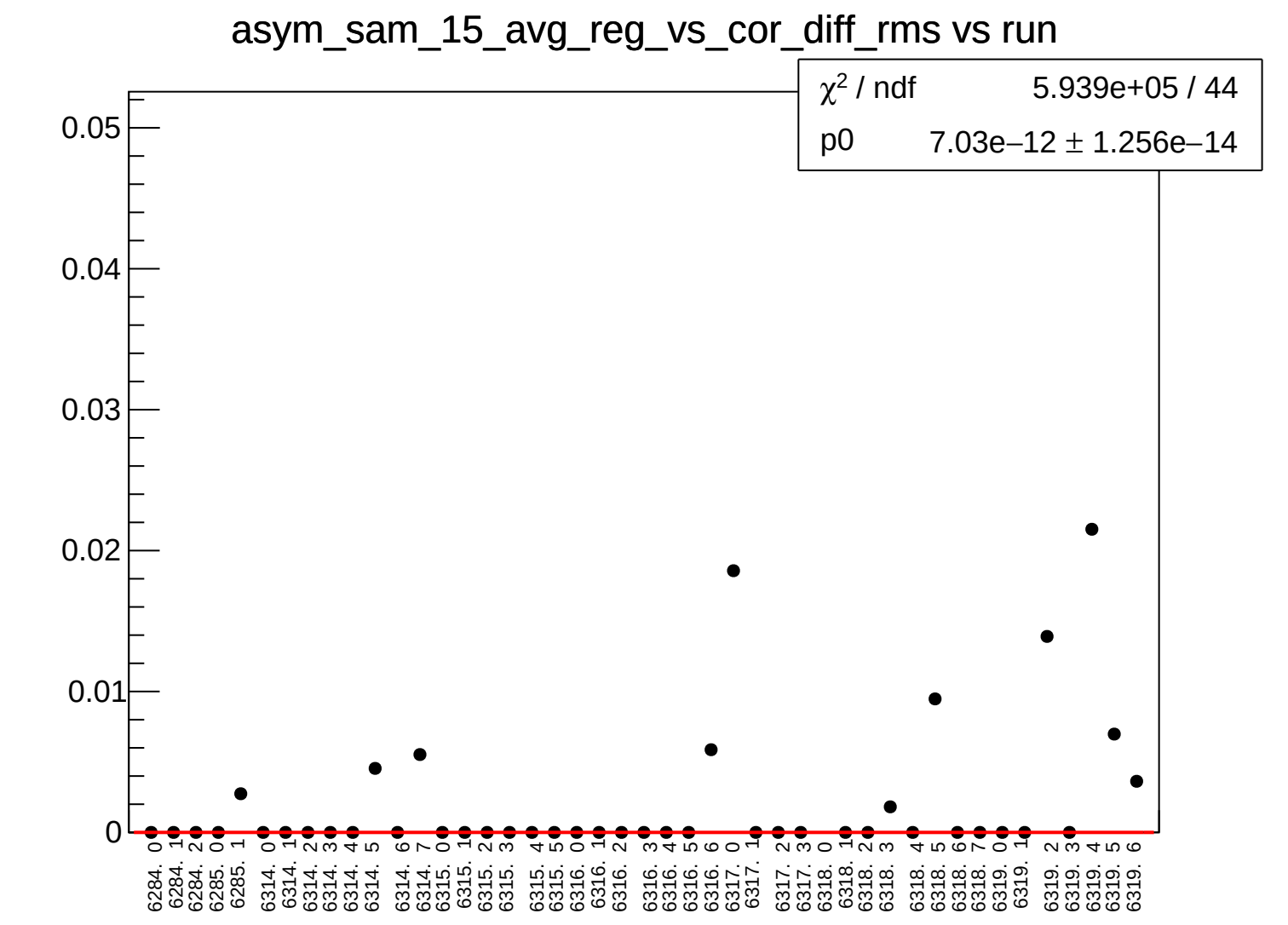

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 972.3 / 44
p0 321 ± 0.3372
360
350
340
330
320
310
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

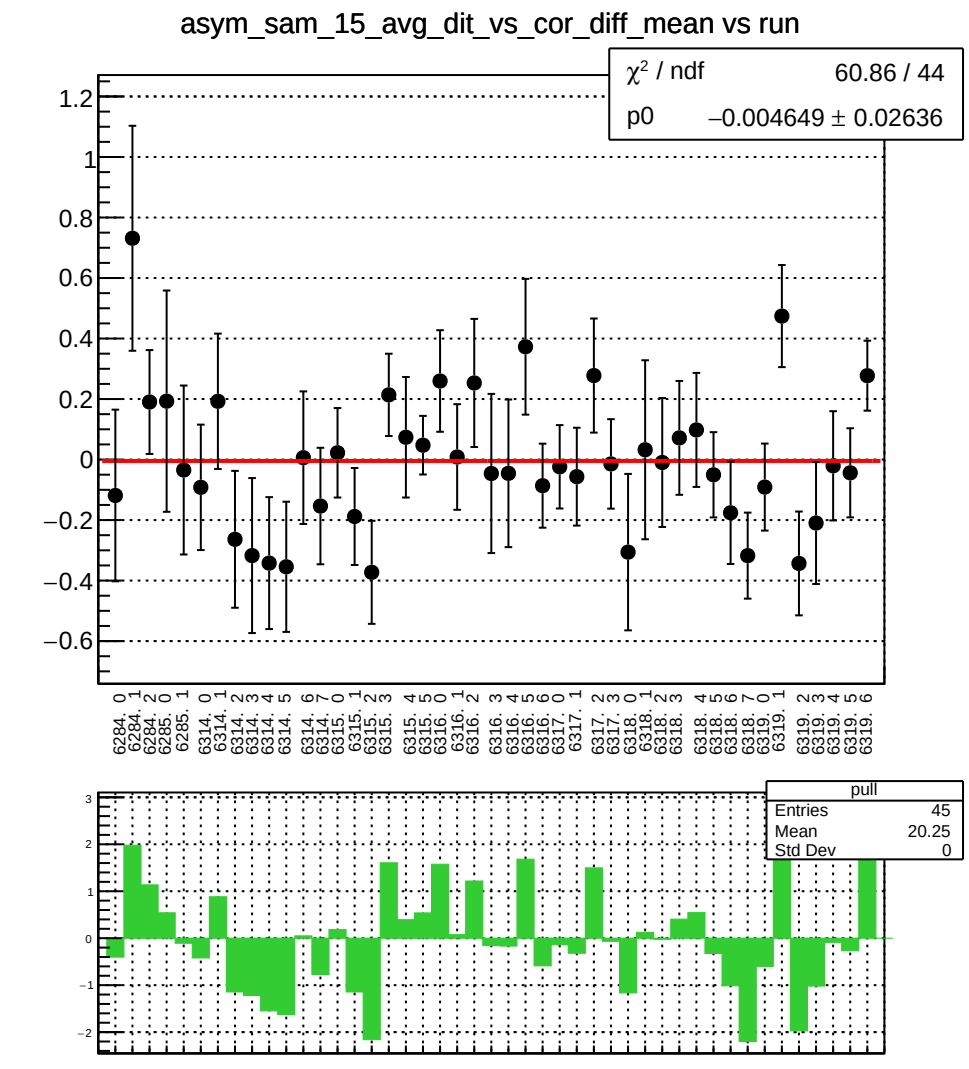

asym_sam_15_avg_mean vs run
χ² / ndf 36.85 / 44
p0 587 ± 475.3
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 25.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

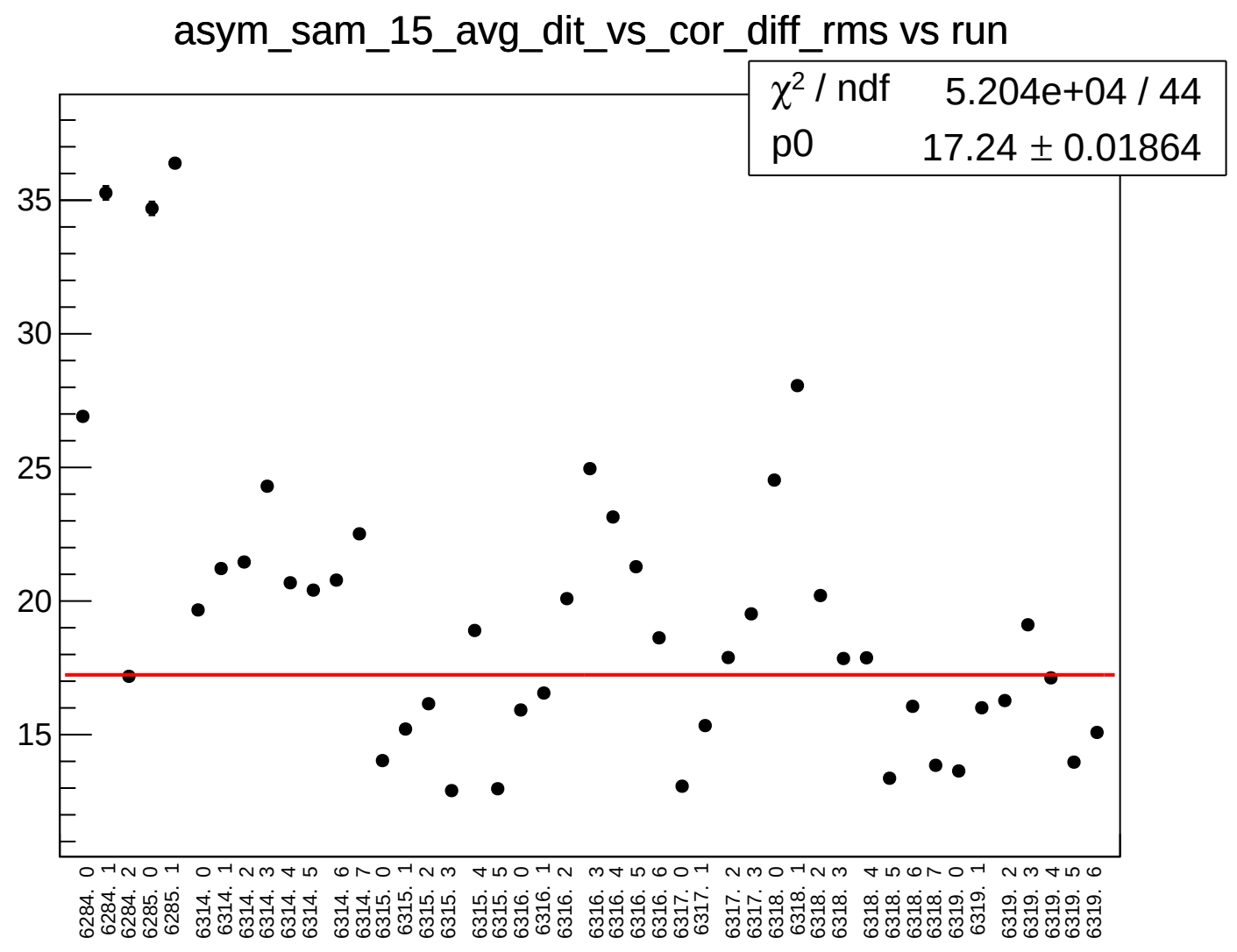

pull1D
Entries 45
Mean 0.01433
Std Dev 0.9049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_rms vs run
χ² / ndf 1067 / 44
p0 319.9 ± 0.3361
350
340
330
320
310
300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 35.7 / 44
p0 9.272e−15 ± 1.776e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2.268
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.135
Std Dev 0.8804
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.939e+05 / 44
p0 7.03e−12 ± 1.256e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 60.86 / 44
p0 −0.004649 ± 0.02636
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02126
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 44
p0 17.24 ± 0.01864
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6316. 0
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6316. 2
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6317. 2
6317. 3
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6318. 1
6318. 2
6318. 3
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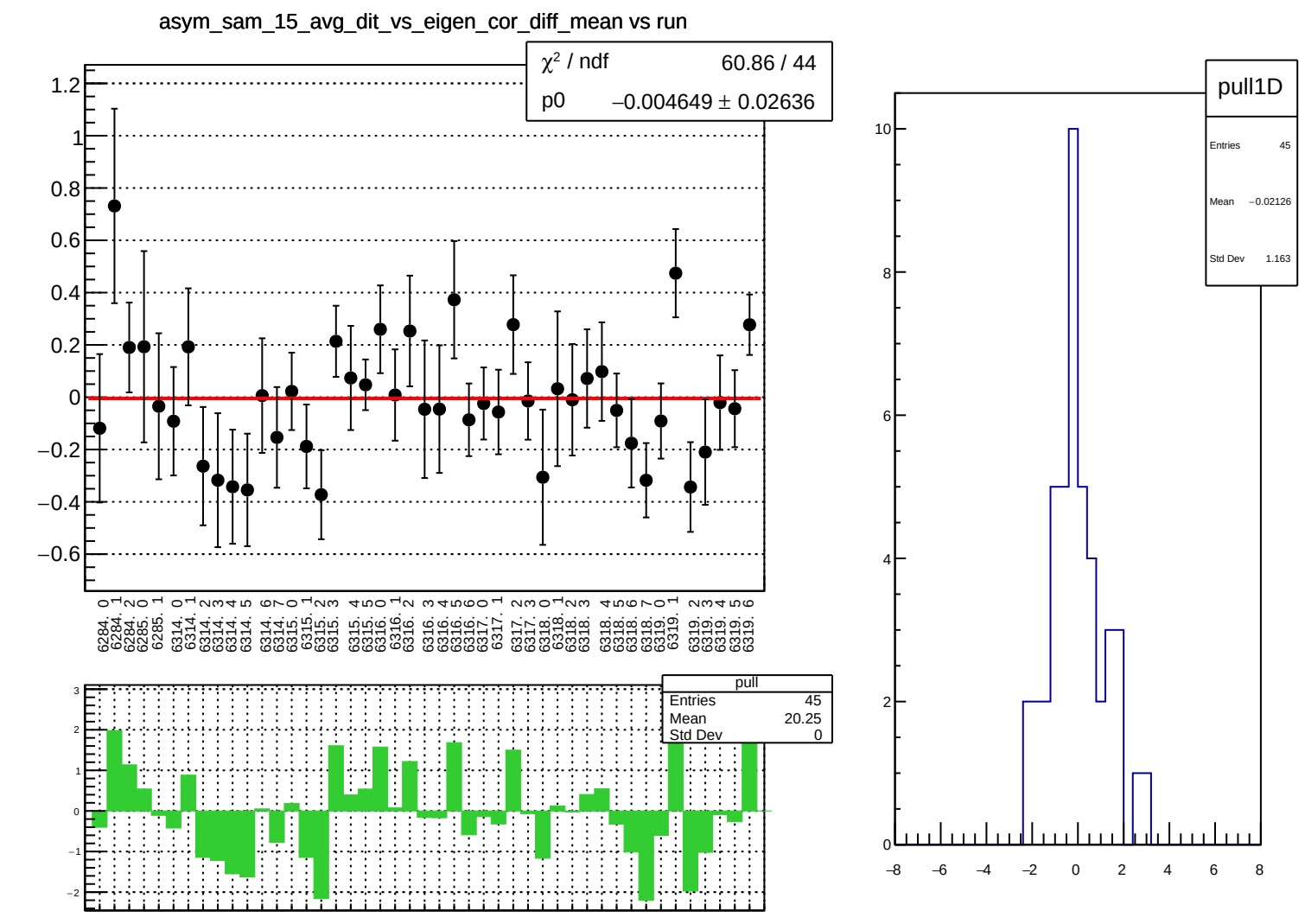
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.86 / 44
p0 −0.004649 ± 0.02636
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
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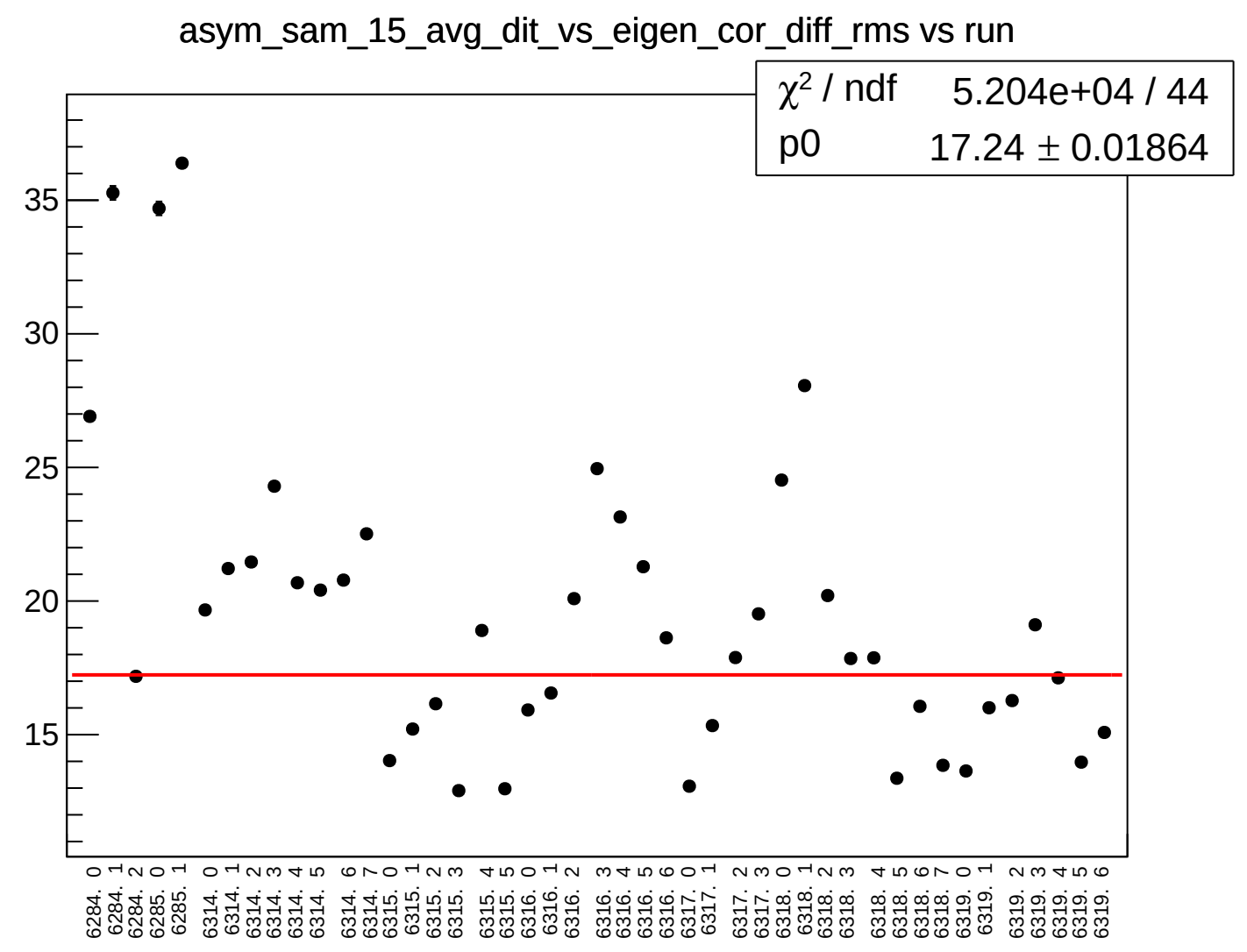
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02126
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 44
p0 17.24 ± 0.01864
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 3
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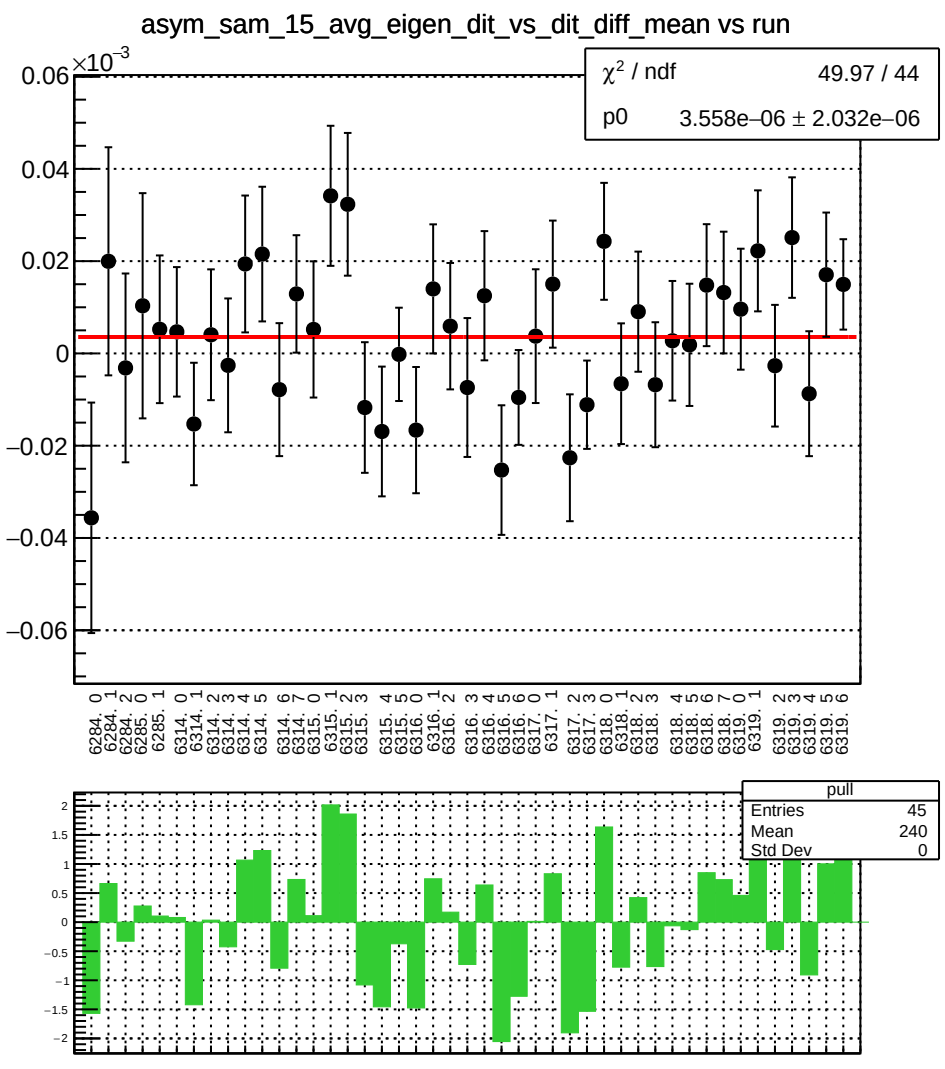
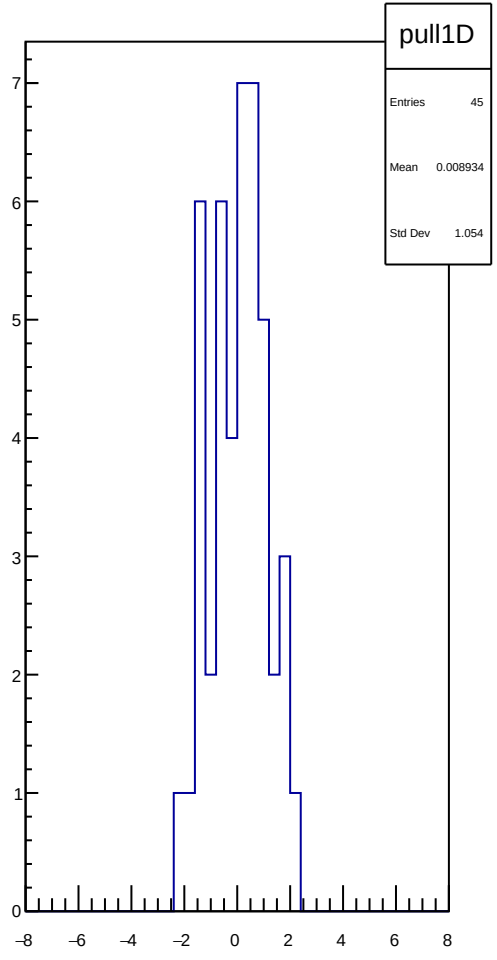
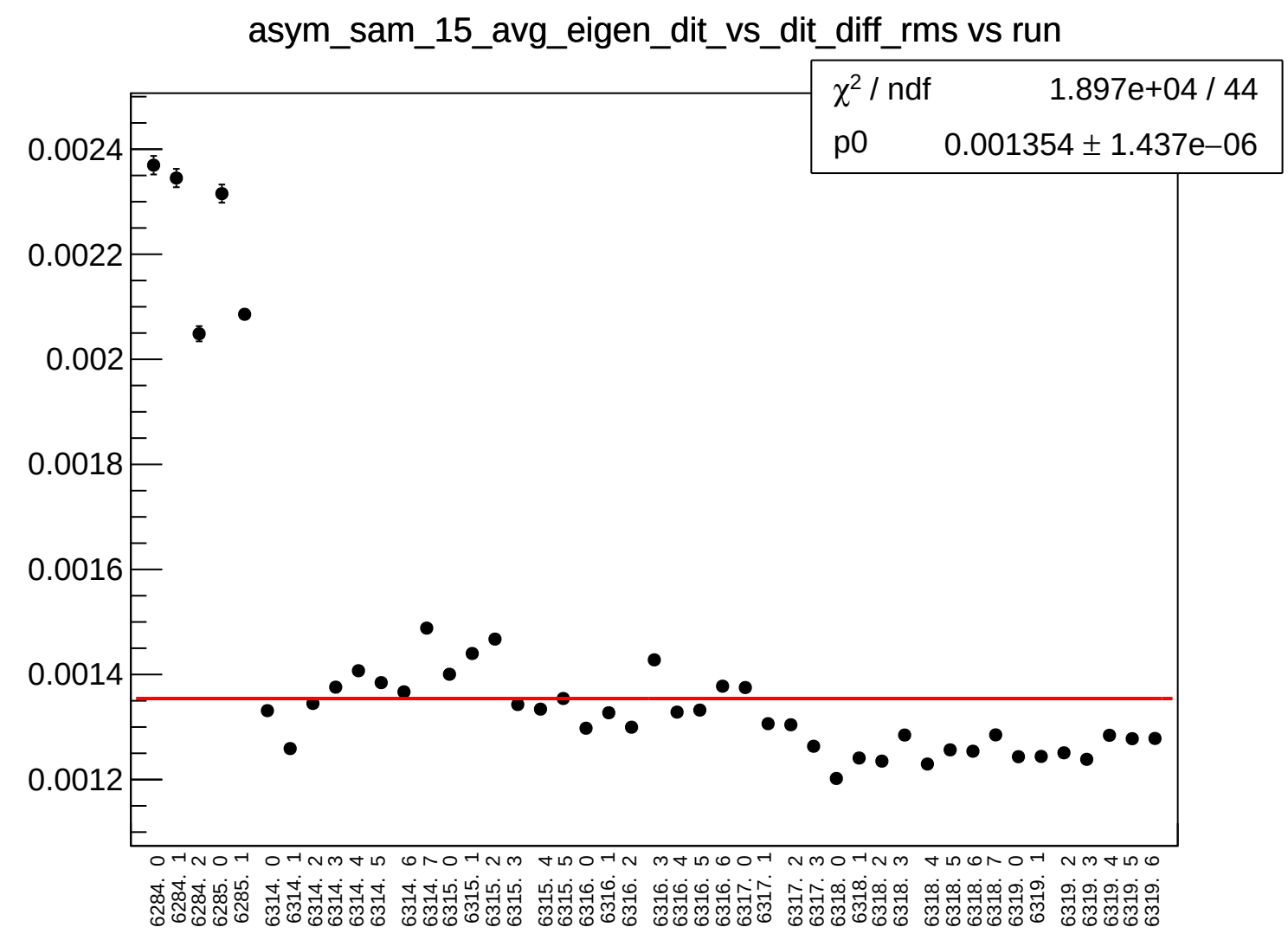
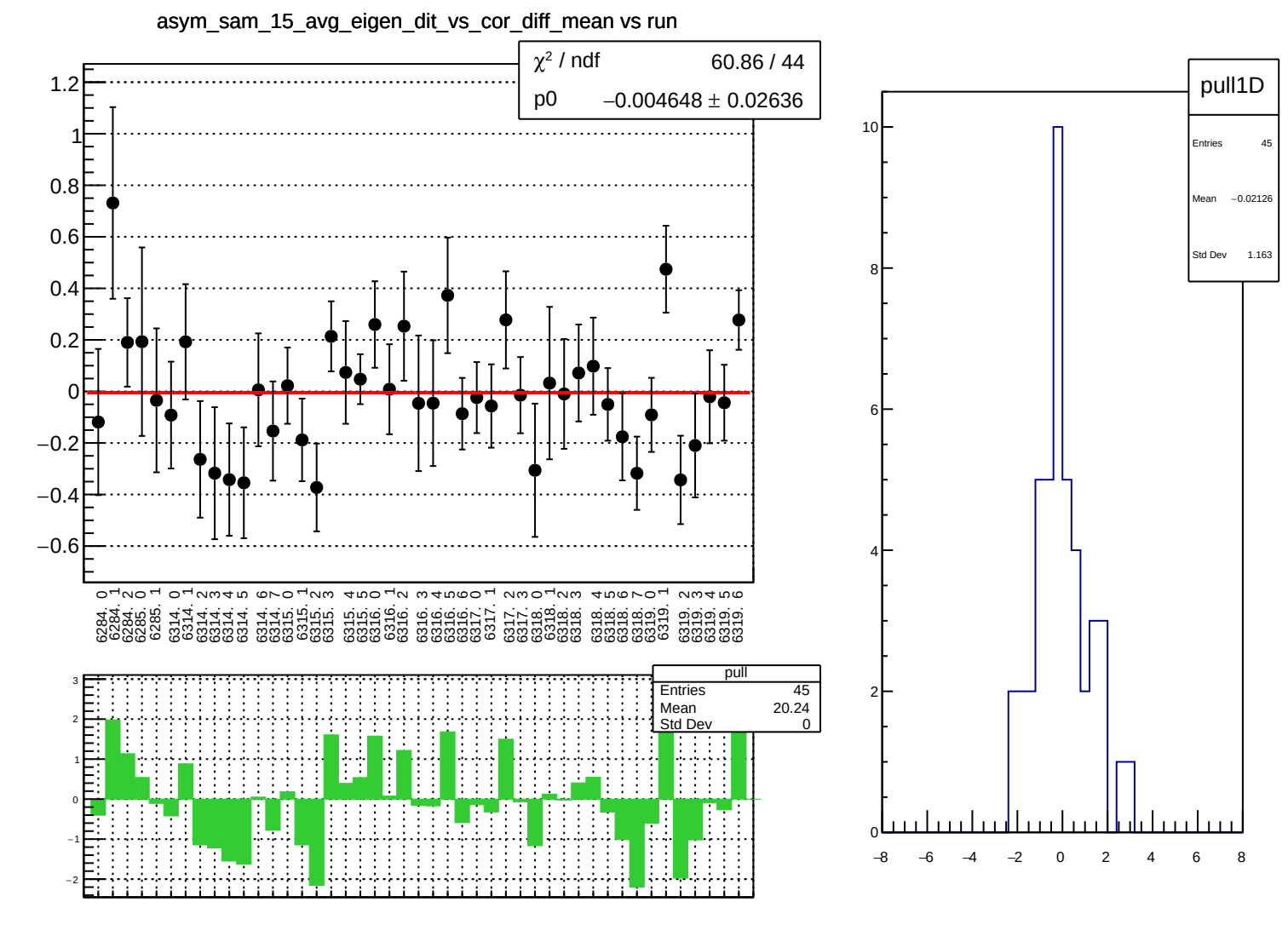
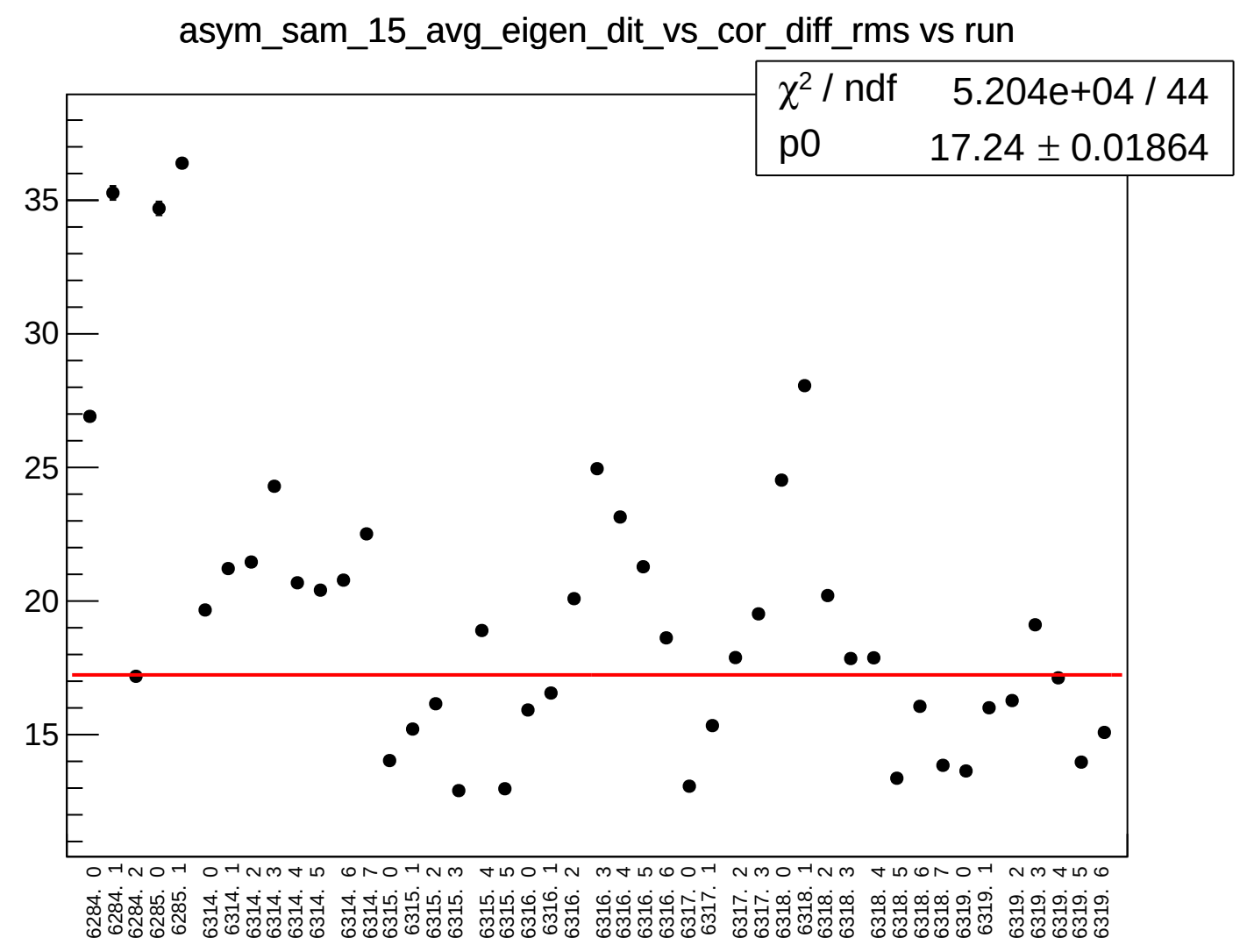
6319. 5
6319. 6

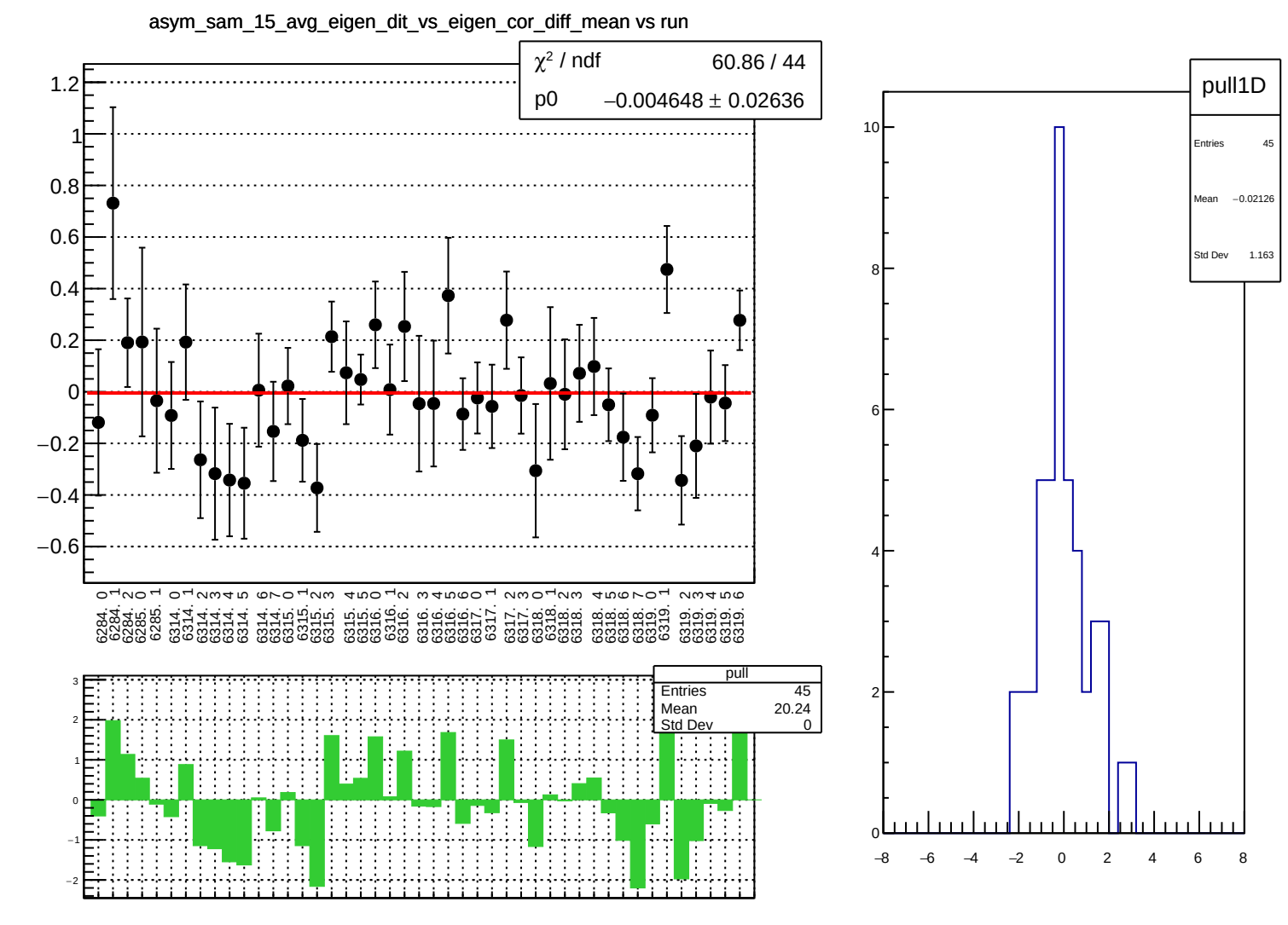

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.97 / 44
p0 3.558e−06 ± 2.032e−06
pull
Entries 45
Mean 240
Std Dev 0

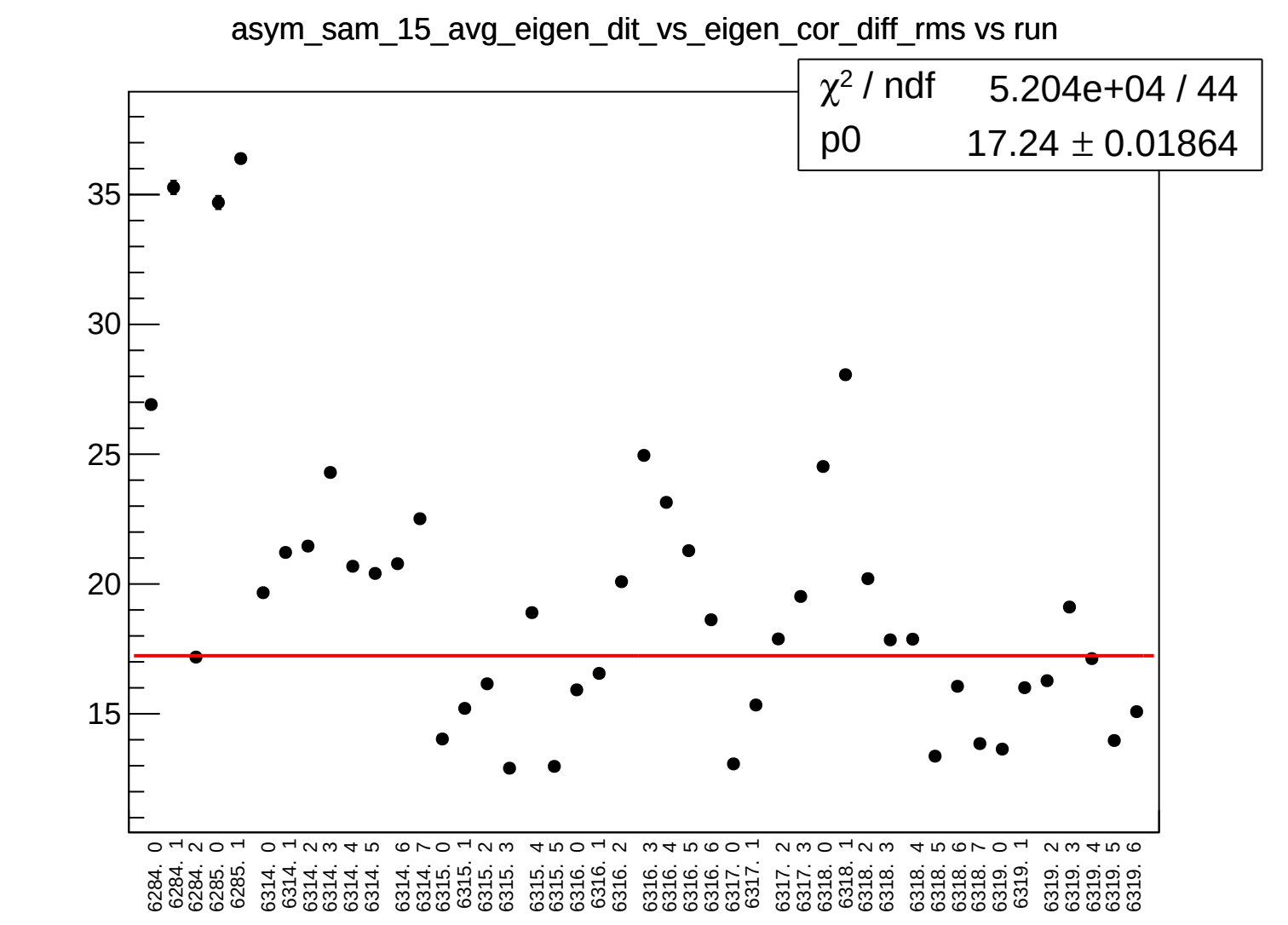

pull1D
Entries 45
Mean 0.008934
Std Dev 1.054

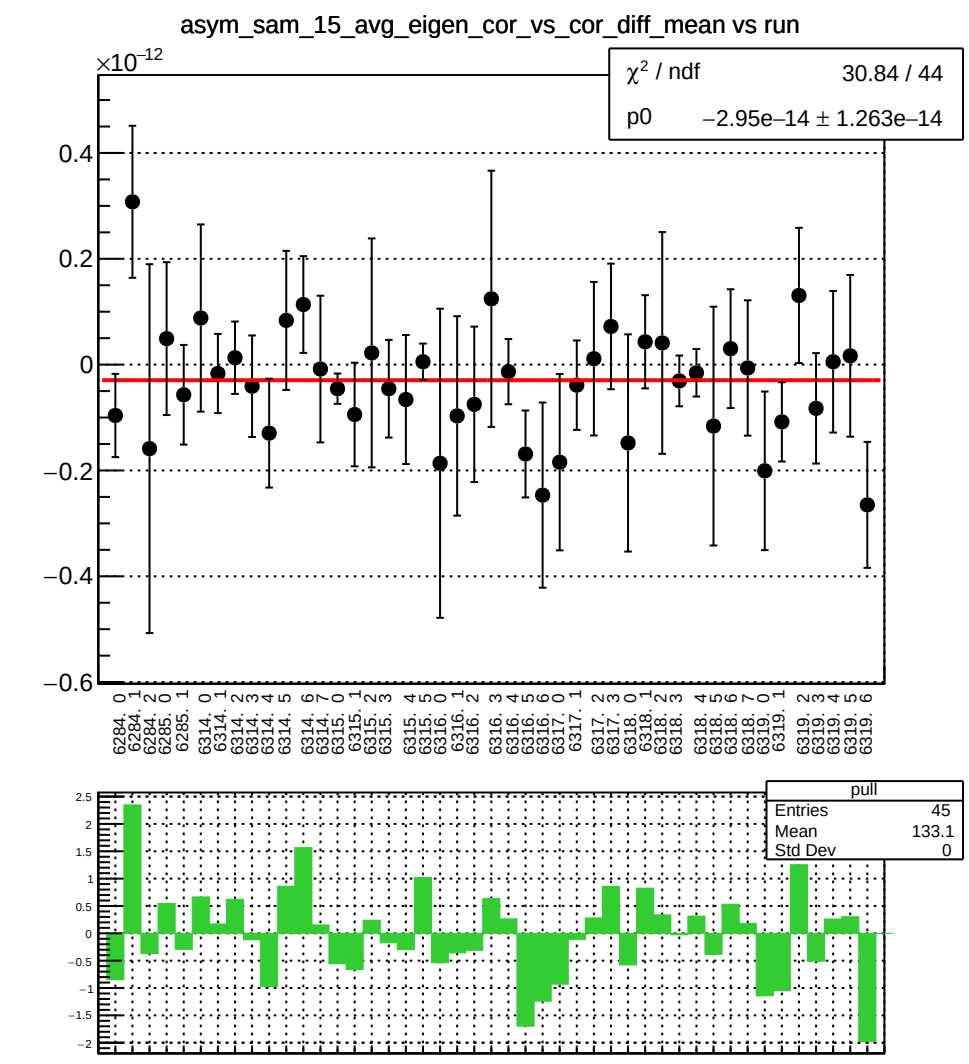

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.897e+04 / 44
p0 0.001354 ± 1.437e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

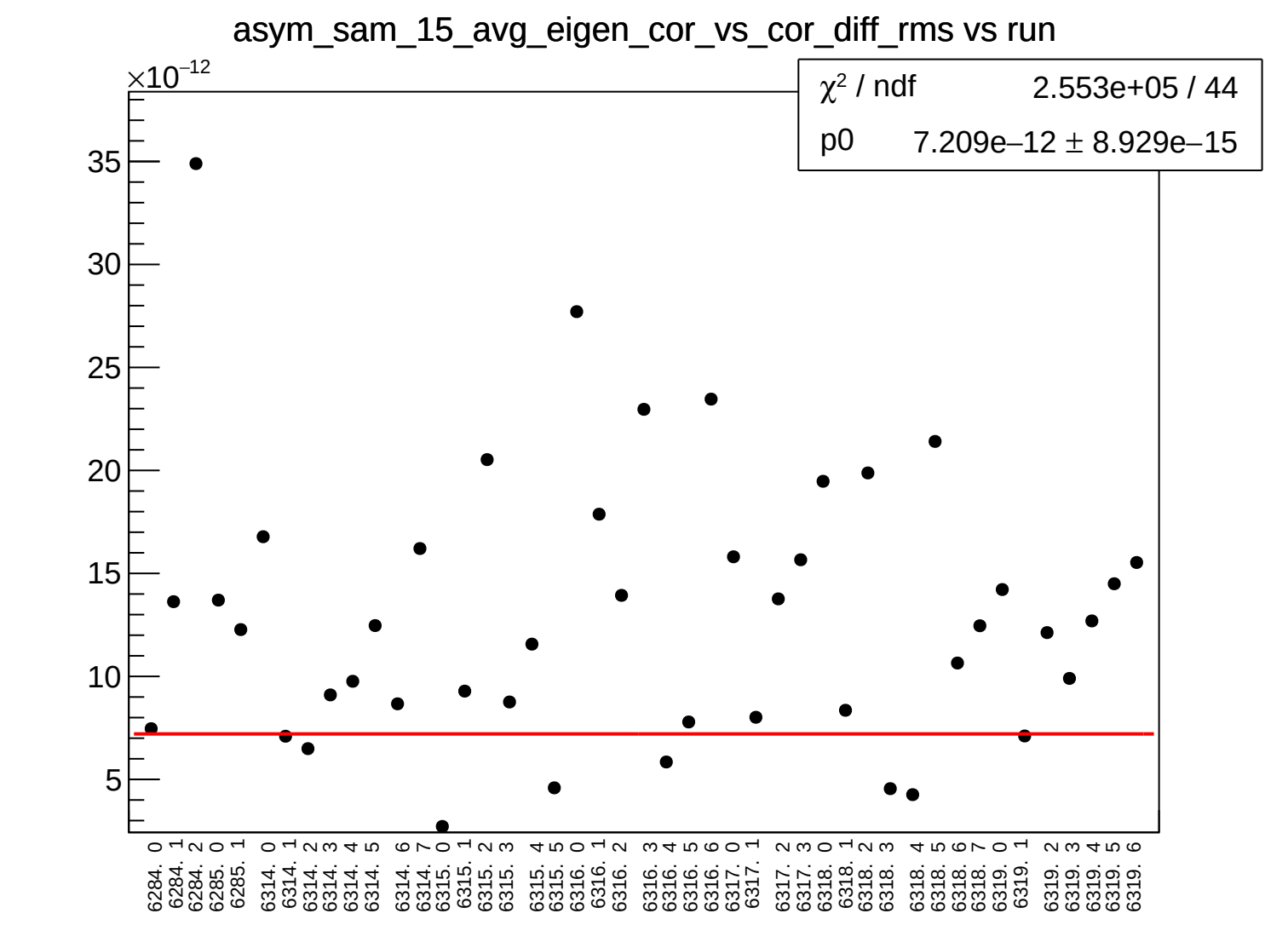

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.86 / 44
p0 −0.004648 ± 0.02636
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 20.24
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02126
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

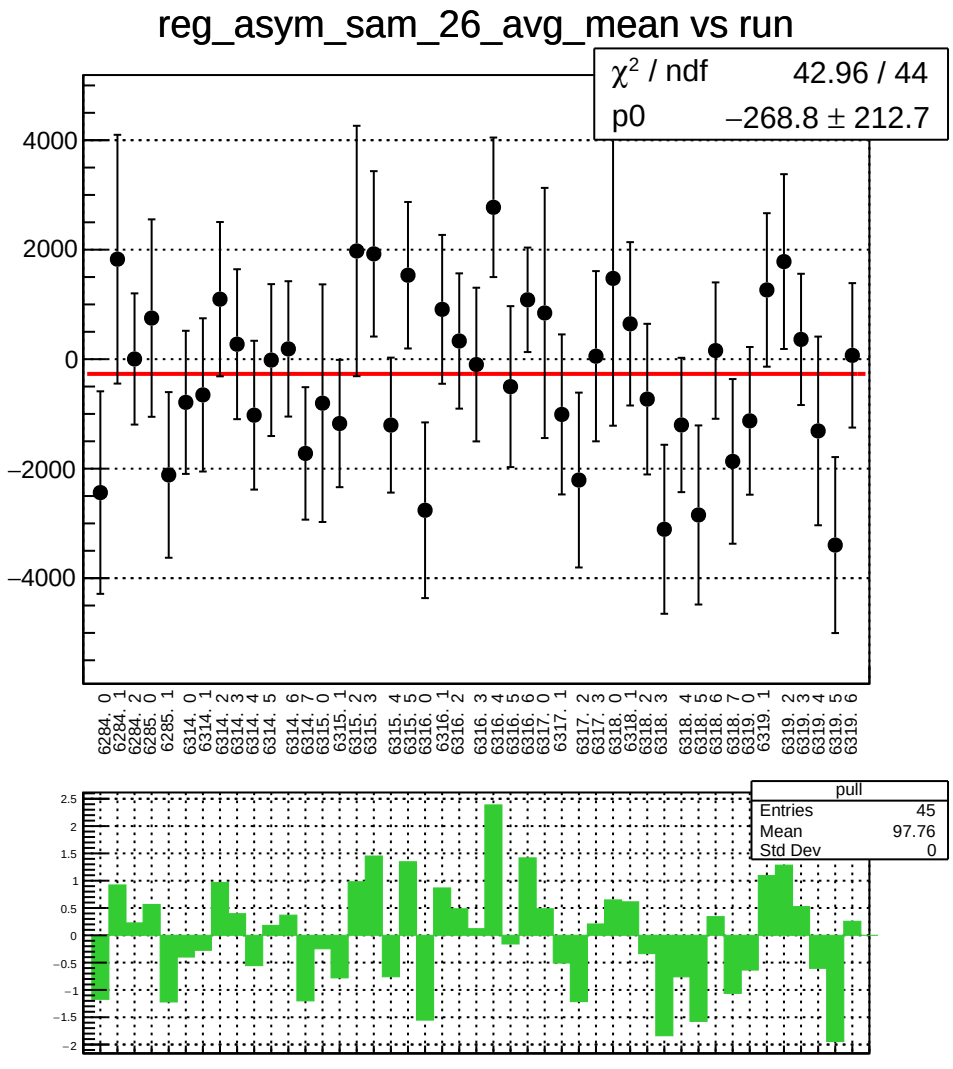

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 44
p0 17.24 ± 0.01864
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

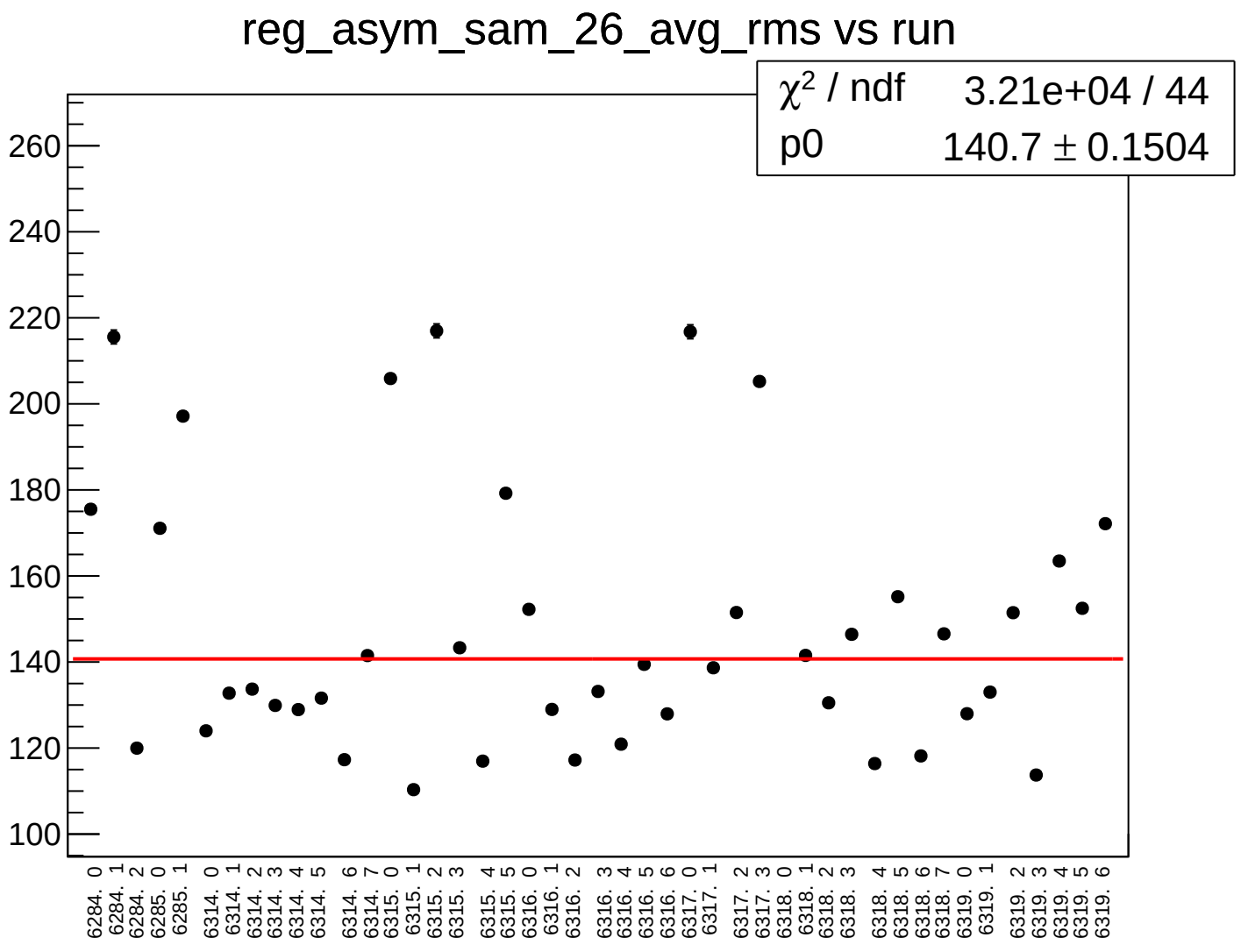

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.86 / 44
p0 −0.004648 ± 0.02636
pull
Entries 45
Mean 20.24
Std Dev 0
pull1D
Entries 45
Mean −0.02126
Std Dev 1.163

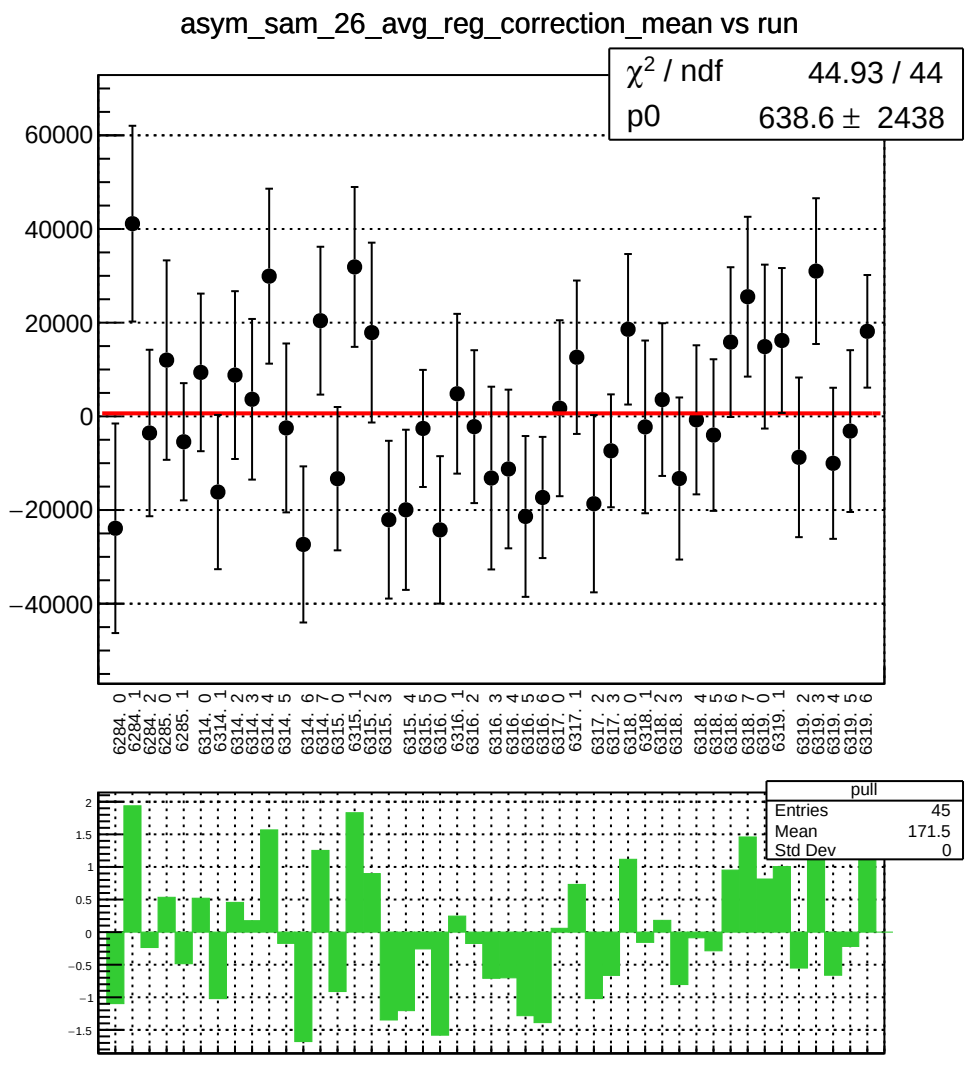

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 44
p0 17.24 ± 0.01864
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

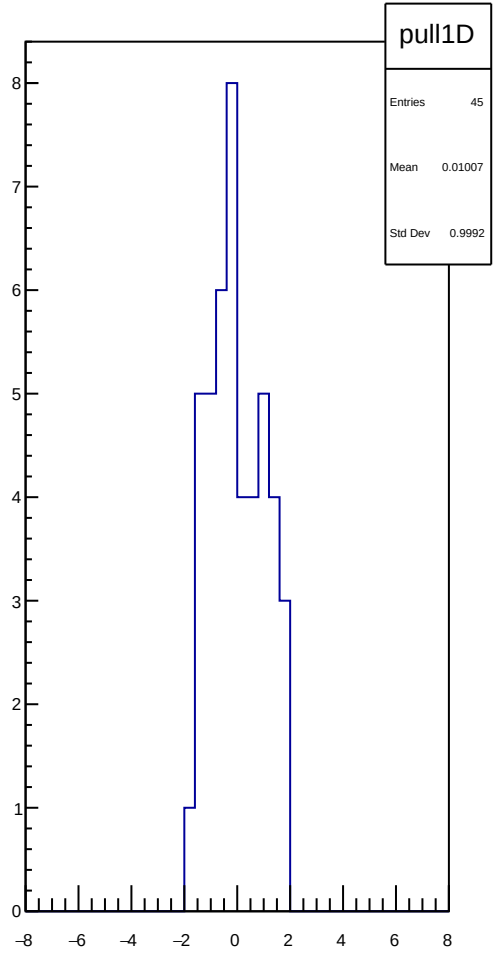

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 30.84 / 44
p0 −2.95e−14 ± 1.263e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 133.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02022
Std Dev 0.8276
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

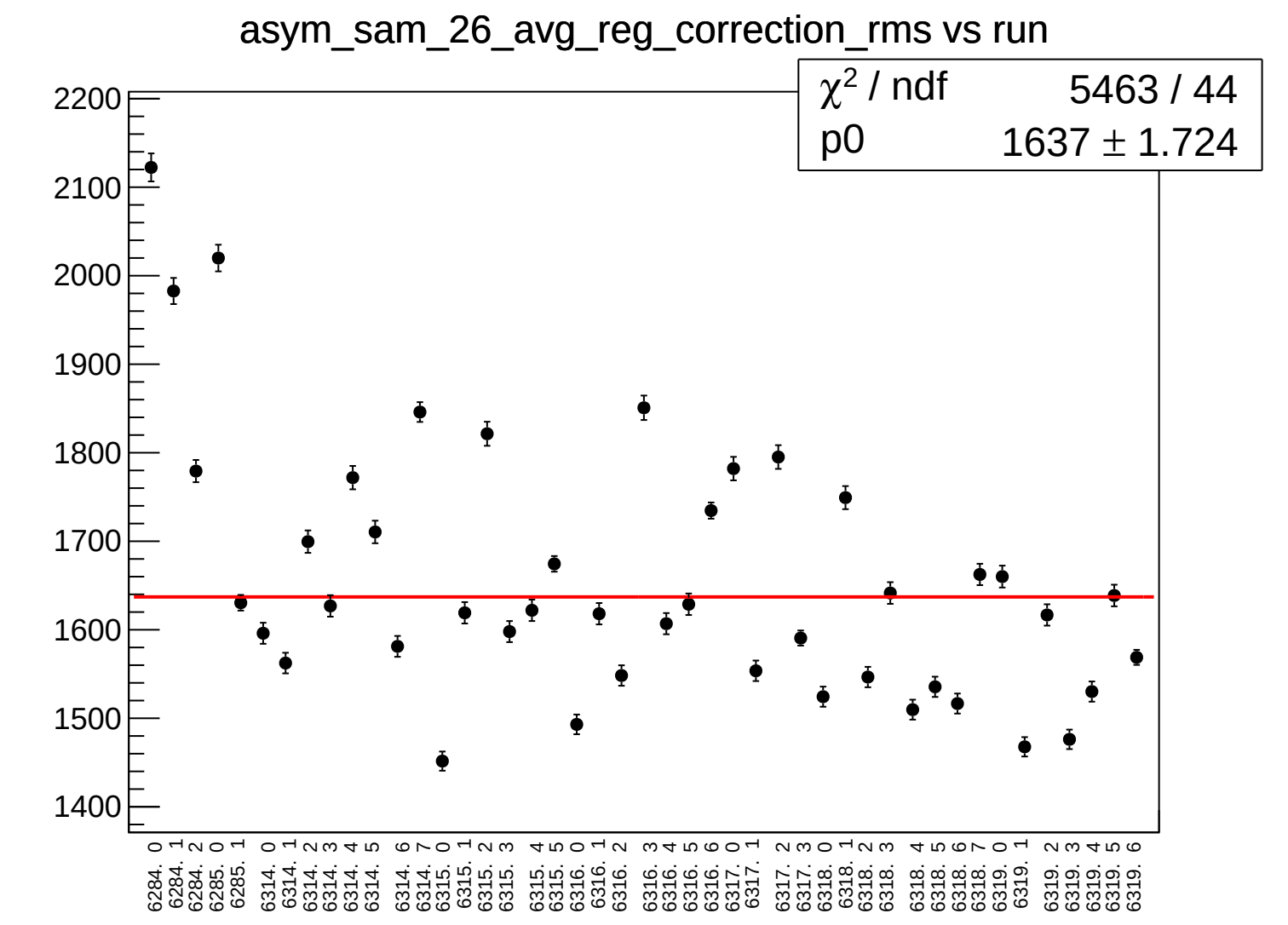

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.553e+05 / 44
p0 7.209e−12 ± 8.929e−15
35
30
25
20
15
10
5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_26_avg_mean vs run
χ² / ndf 42.96 / 44
p0 −268.8 ± 212.7
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 97.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01436
Std Dev 0.977
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.21e+04 / 44
p0 140.7 ± 0.1504
260
240
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 44.93 / 44
p0 638.6 ± 2438
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01007
Std Dev 0.9992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 5463 / 44
p0 1637 ± 1.724
2200
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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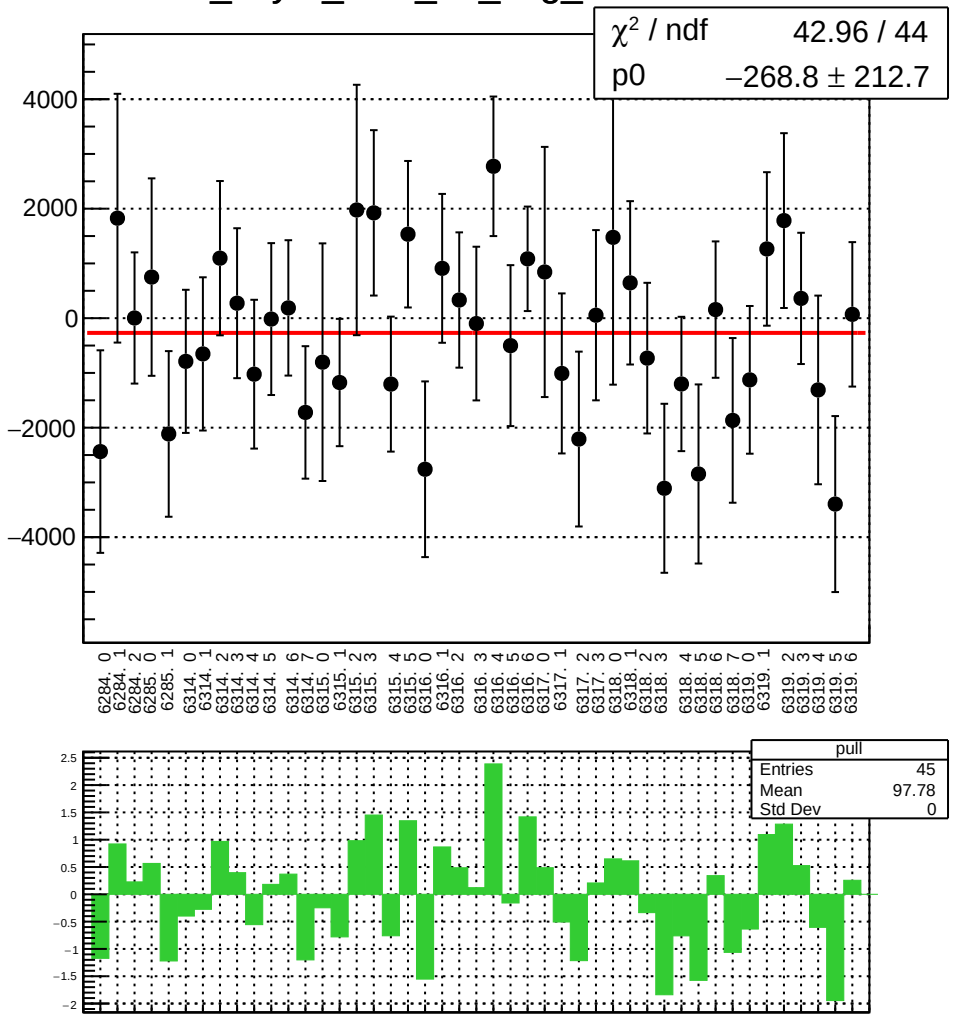
6319. 5
6319. 6


cor_asym_sam_26_avg_mean vs run
χ² / ndf 42.96 / 44
p0 −268.8 ± 212.7
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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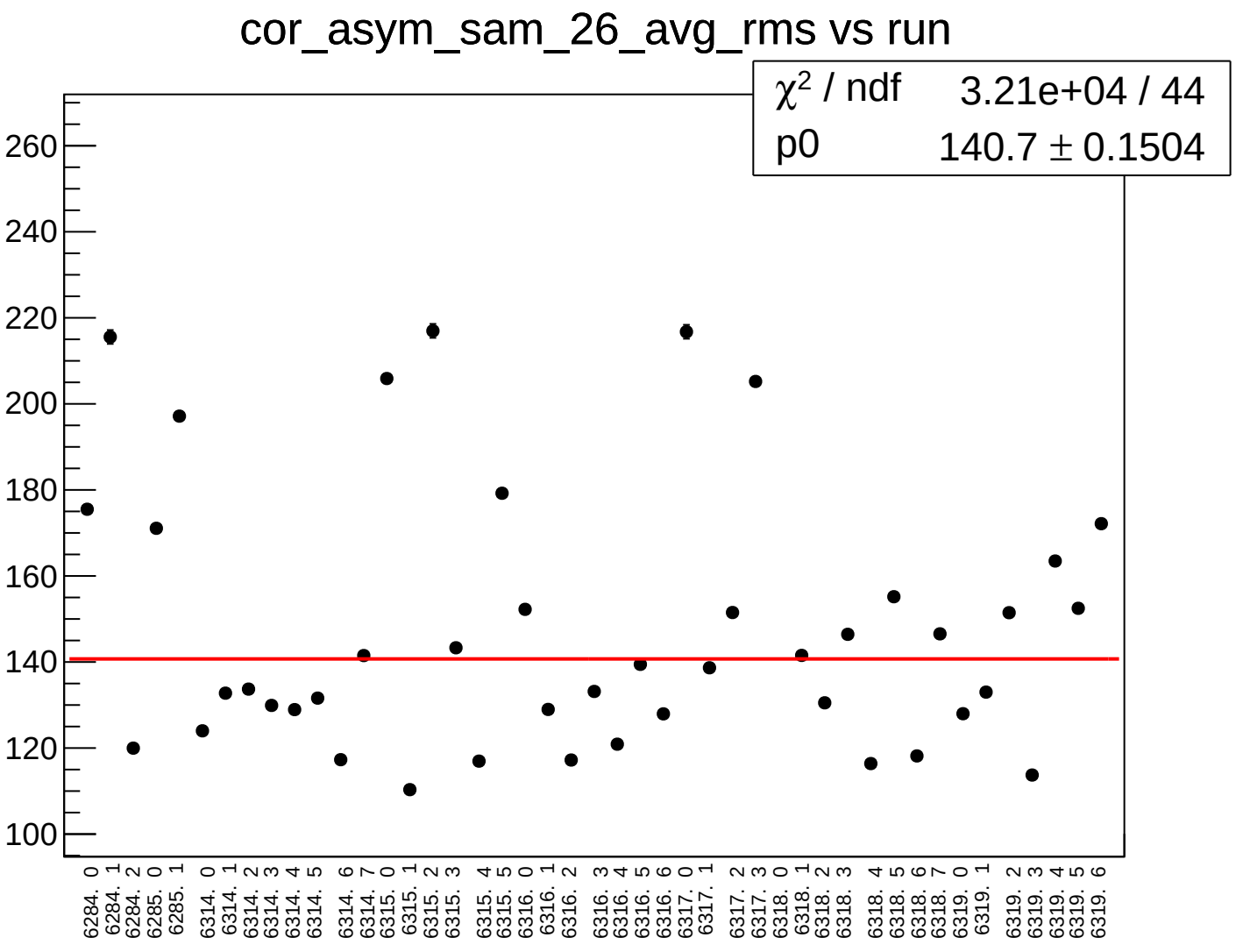
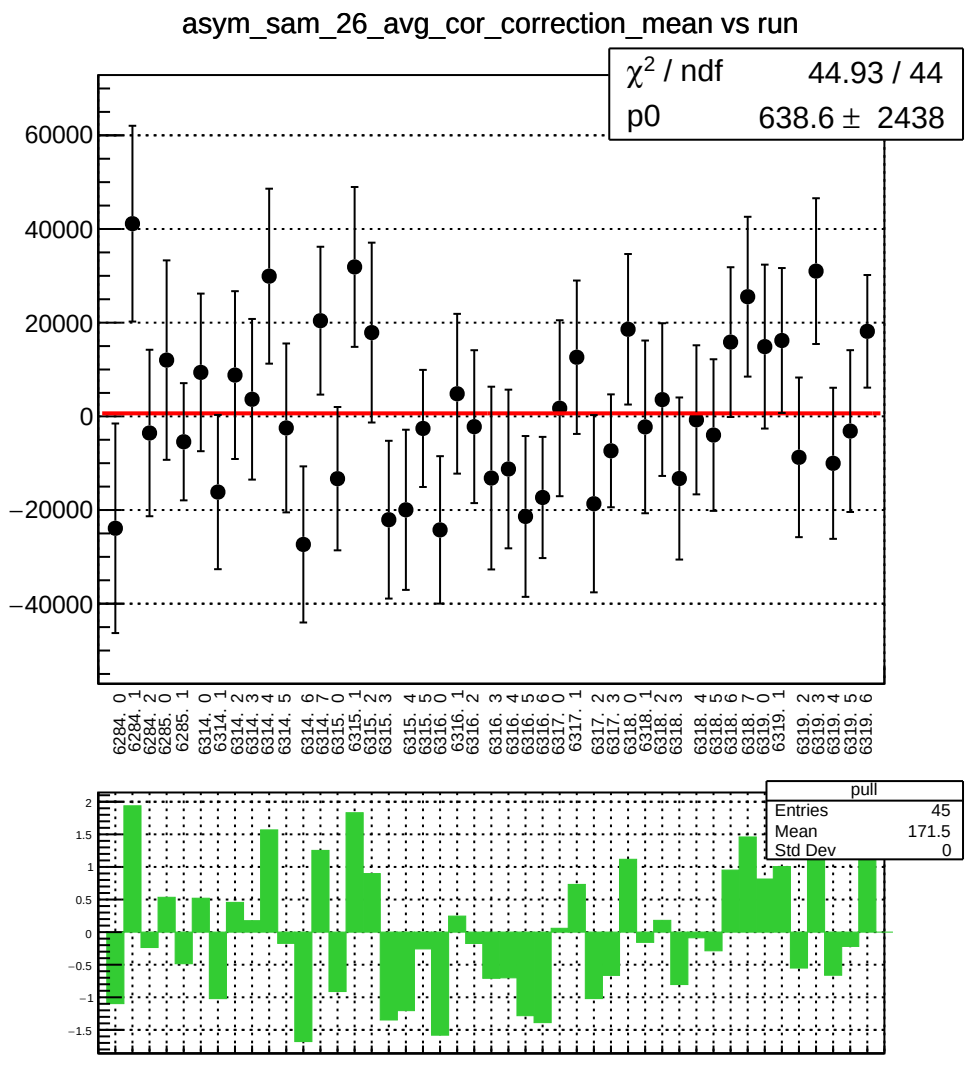
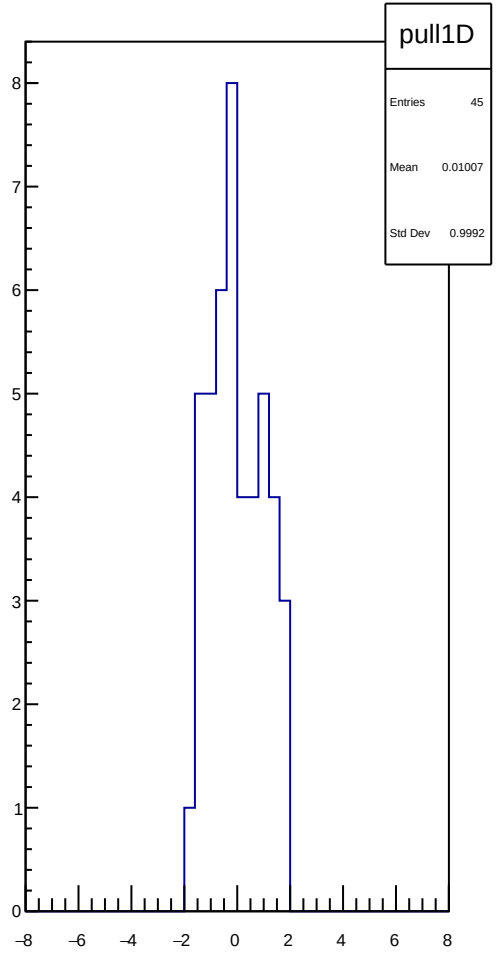
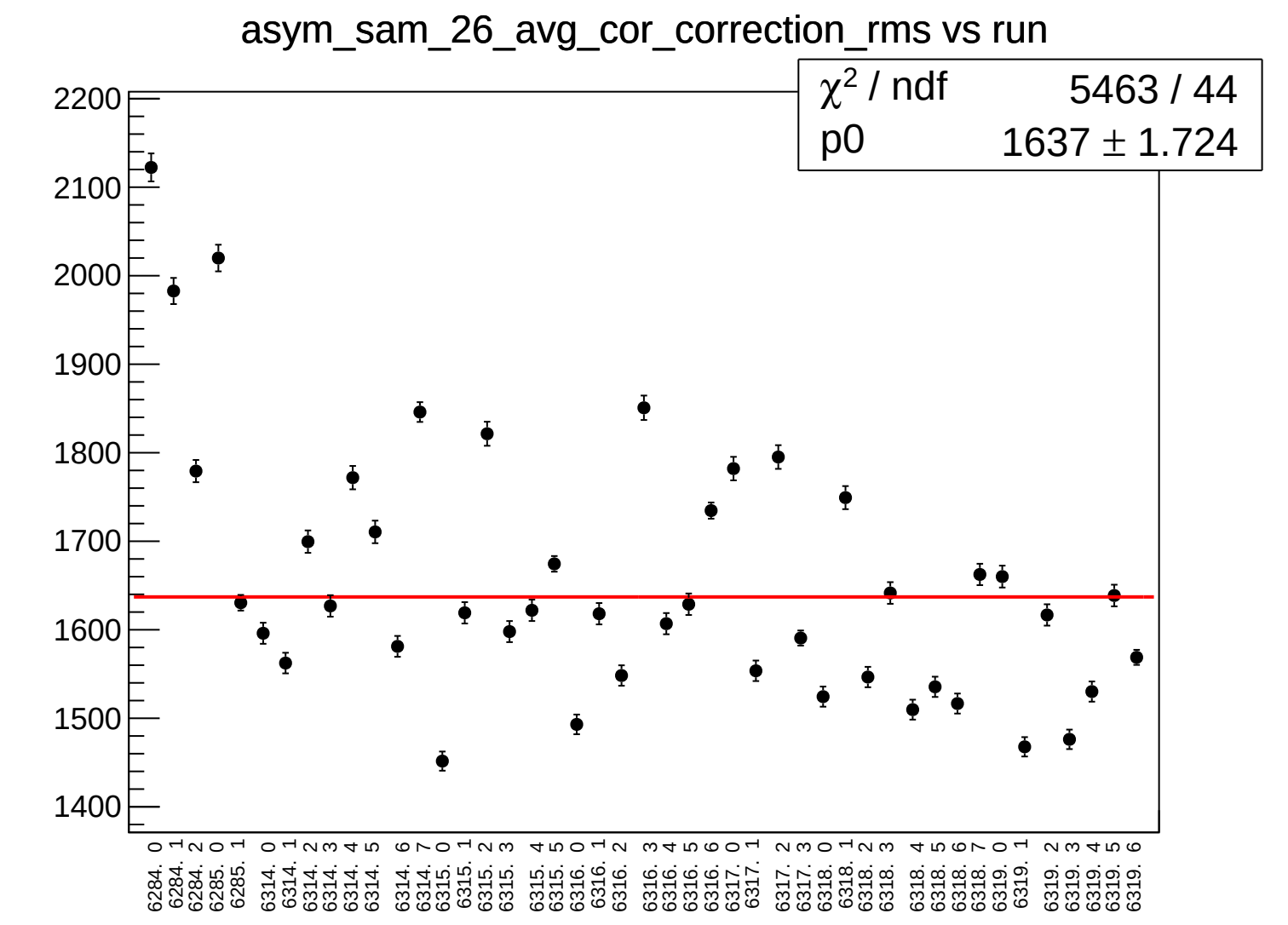
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 97.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01436
Std Dev 0.977
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.21e+04 / 44
p0 140.7 ± 0.1504
260
240
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 44.93 / 44
p0 638.6 ± 2438
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01007
Std Dev 0.9992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 5463 / 44
p0 1637 ± 1.724
2200
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6319. 4
6319. 5
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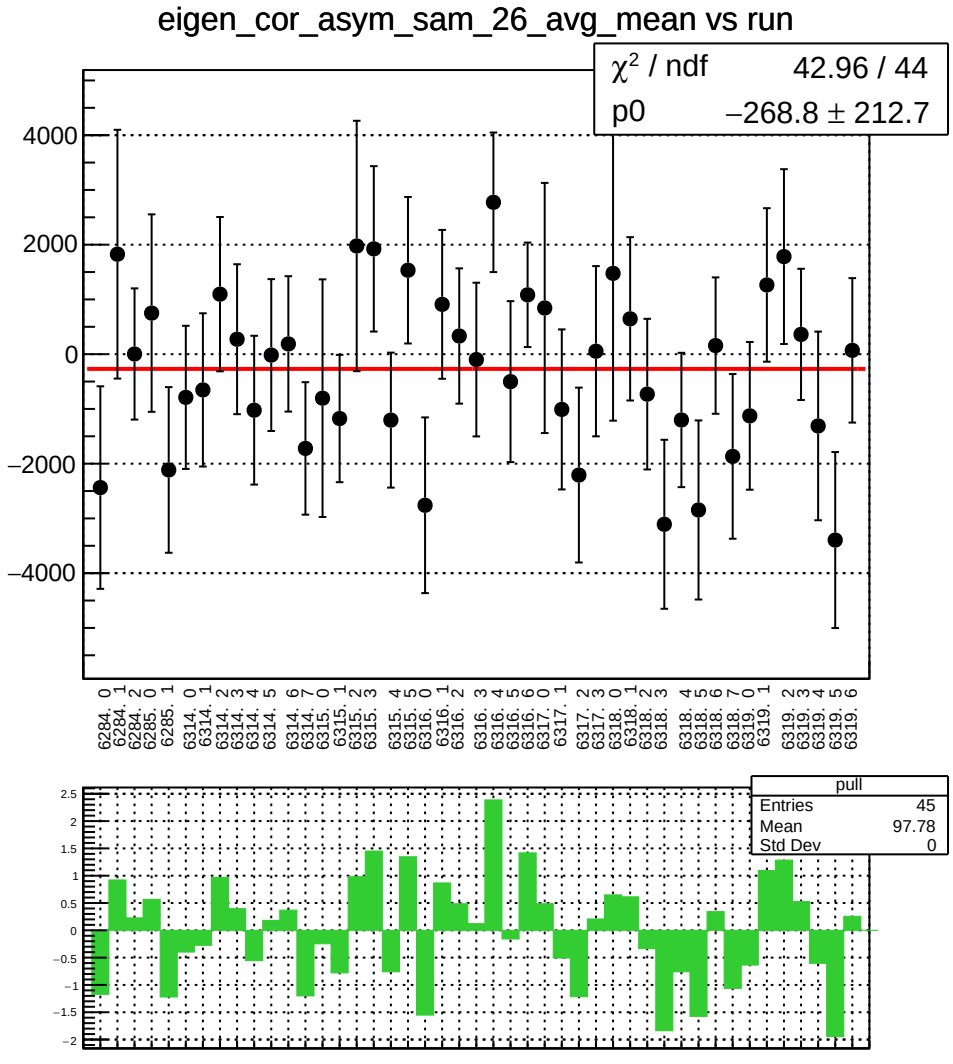
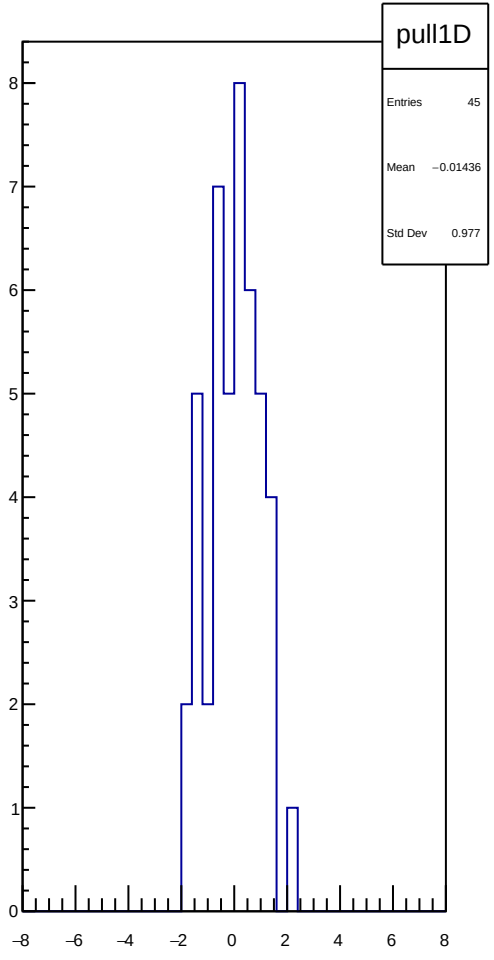
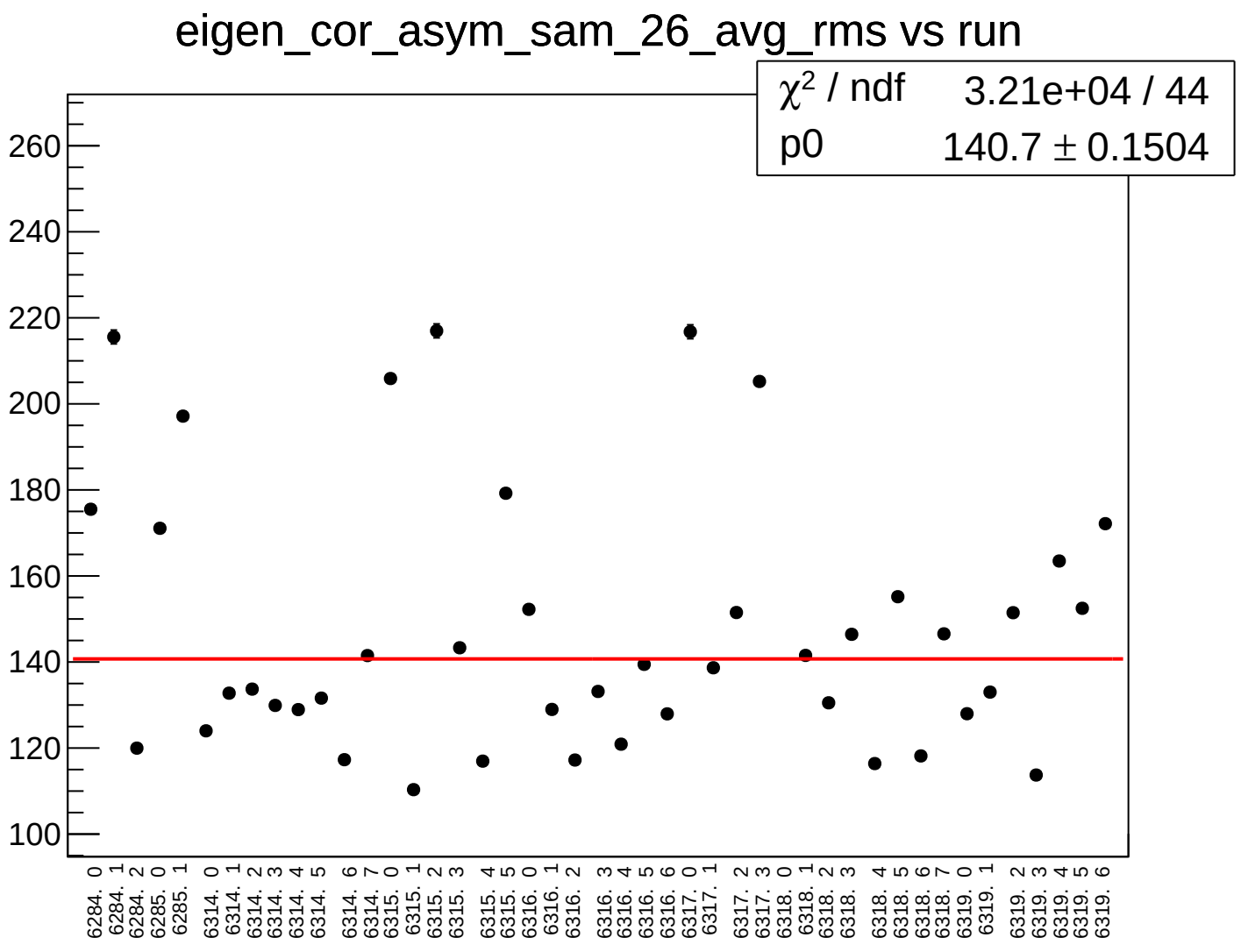

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 42.96 / 44
p0 −268.8 ± 212.7
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 97.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01436
Std Dev 0.977
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.21e+04 / 44
p0 140.7 ± 0.1504
260
240
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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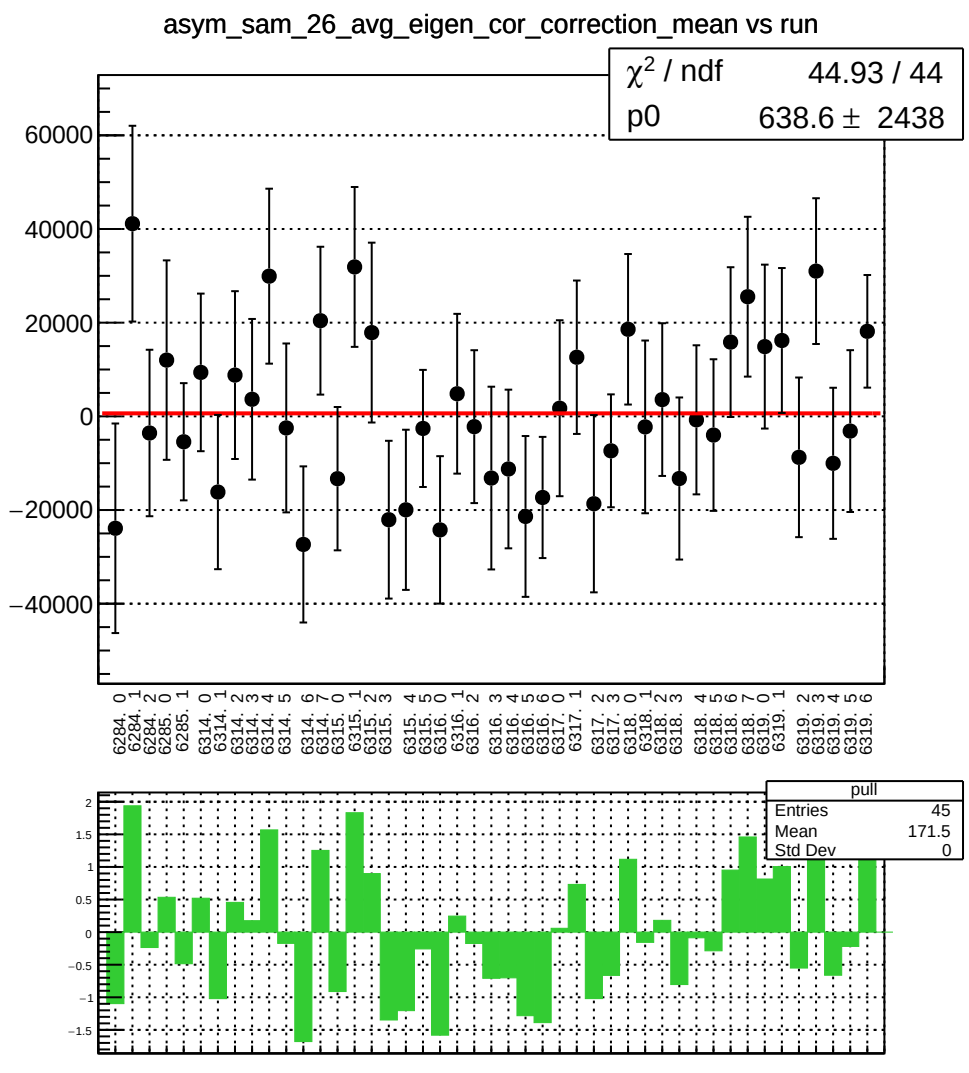
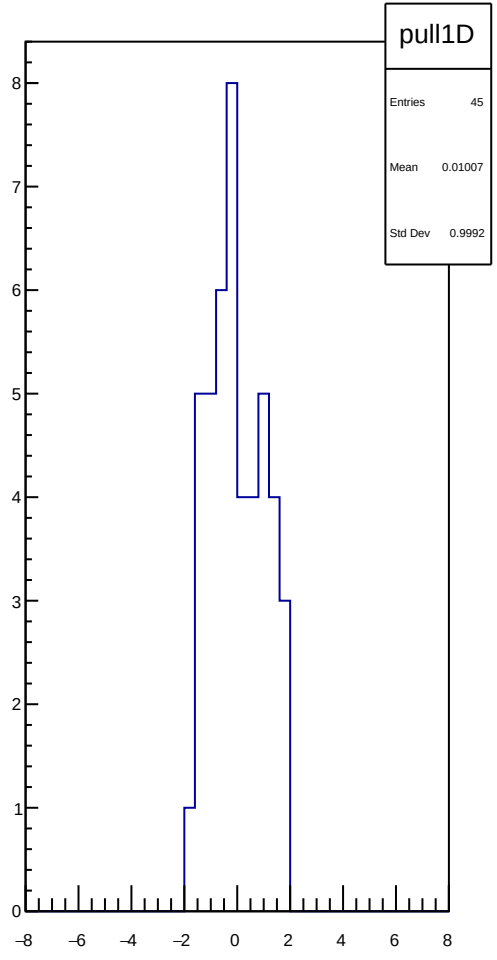
6319. 5
6319. 6


asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 44.93 / 44
p0 638.6 ± 2438
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01007
Std Dev 0.9992
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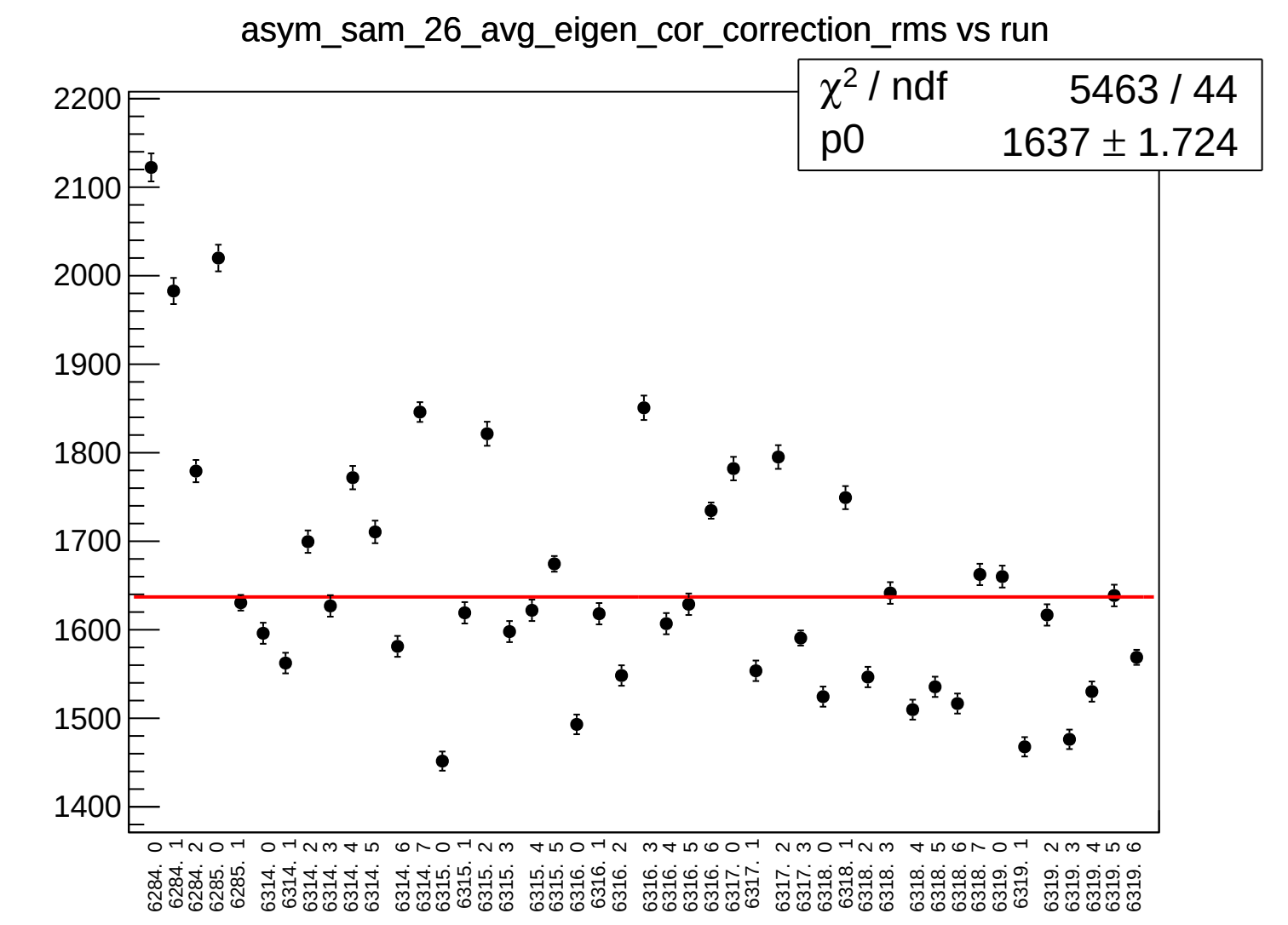
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 5463 / 44
p0 1637 ± 1.724
2200
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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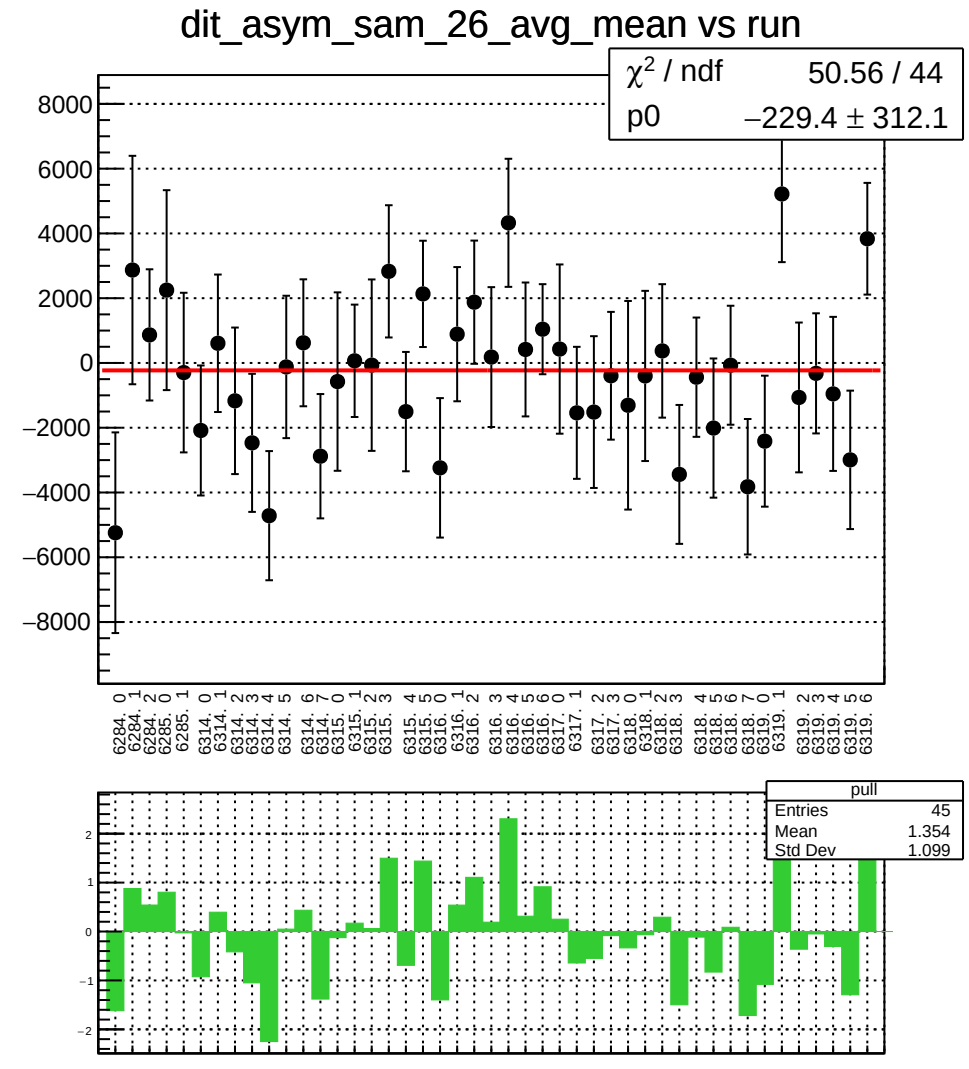
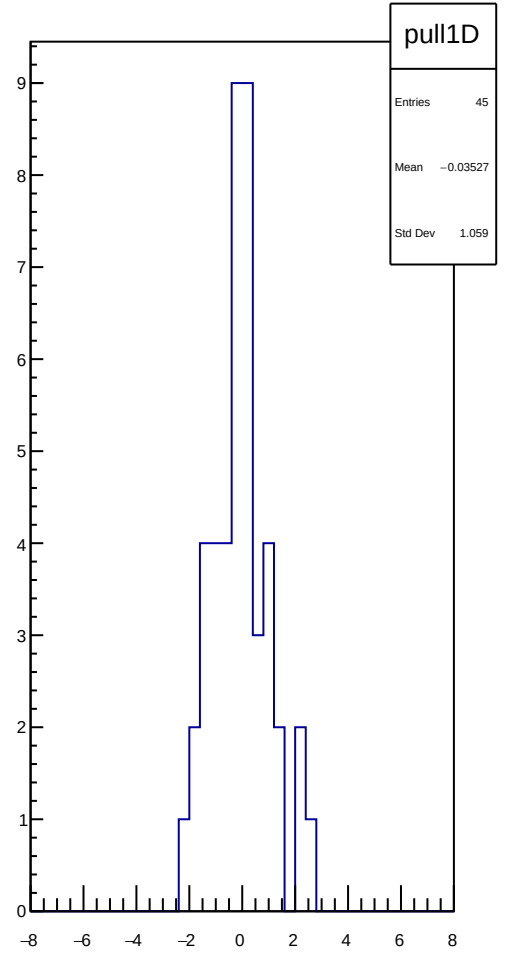
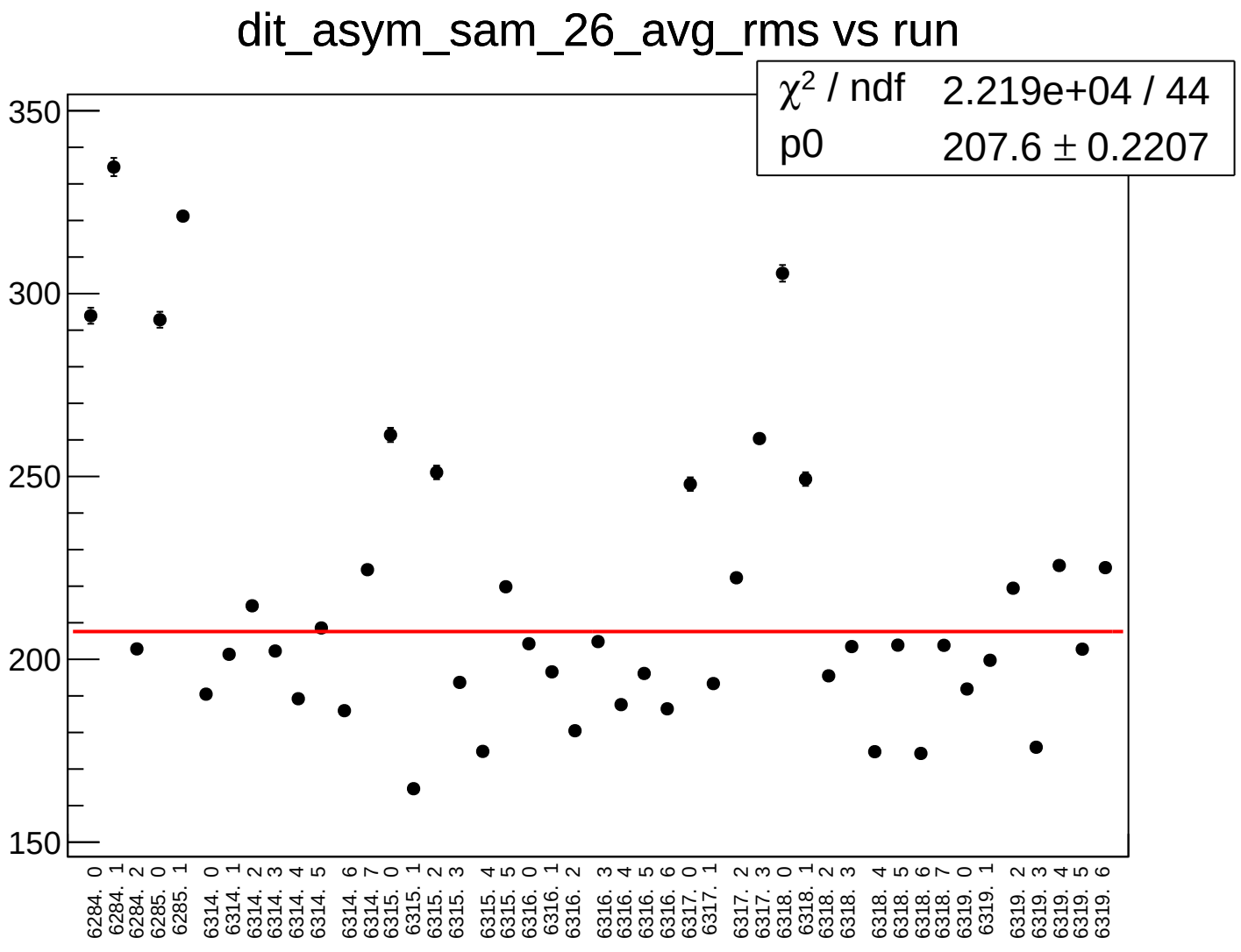
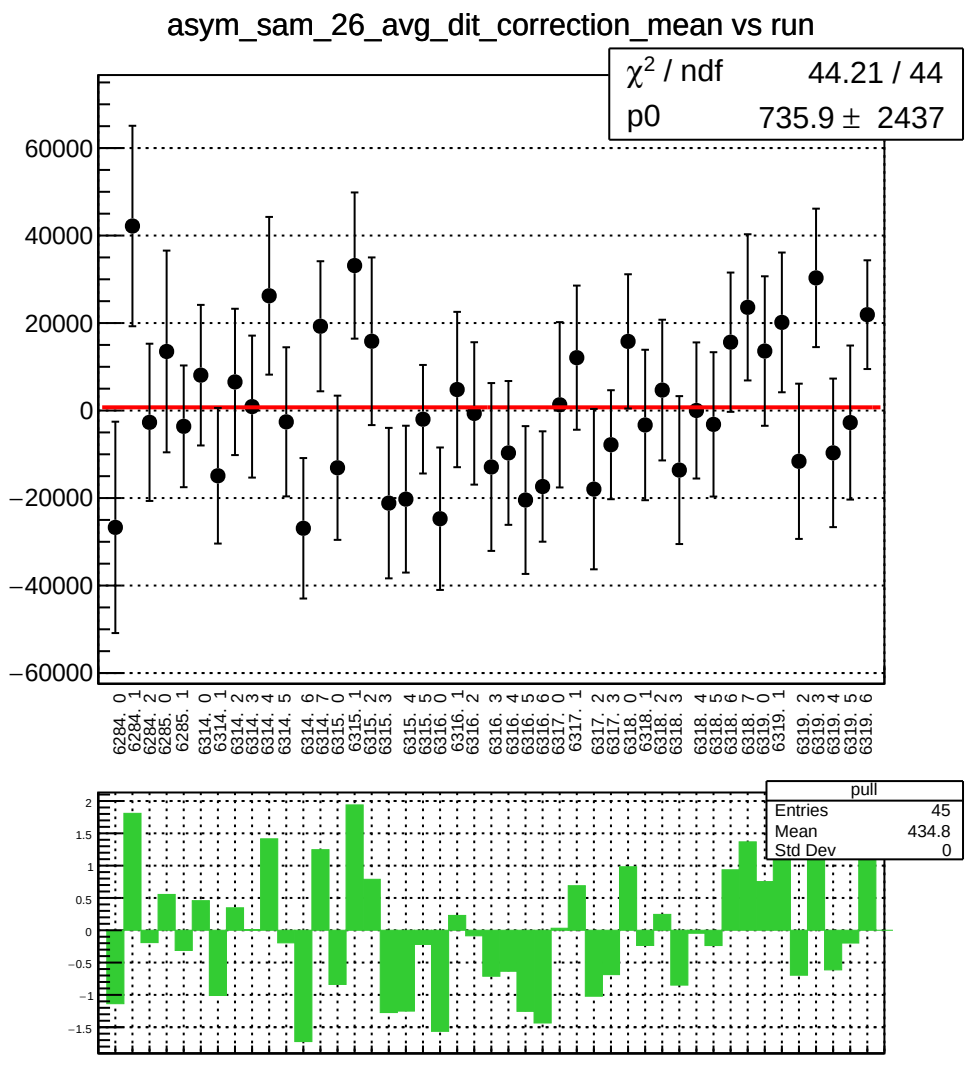
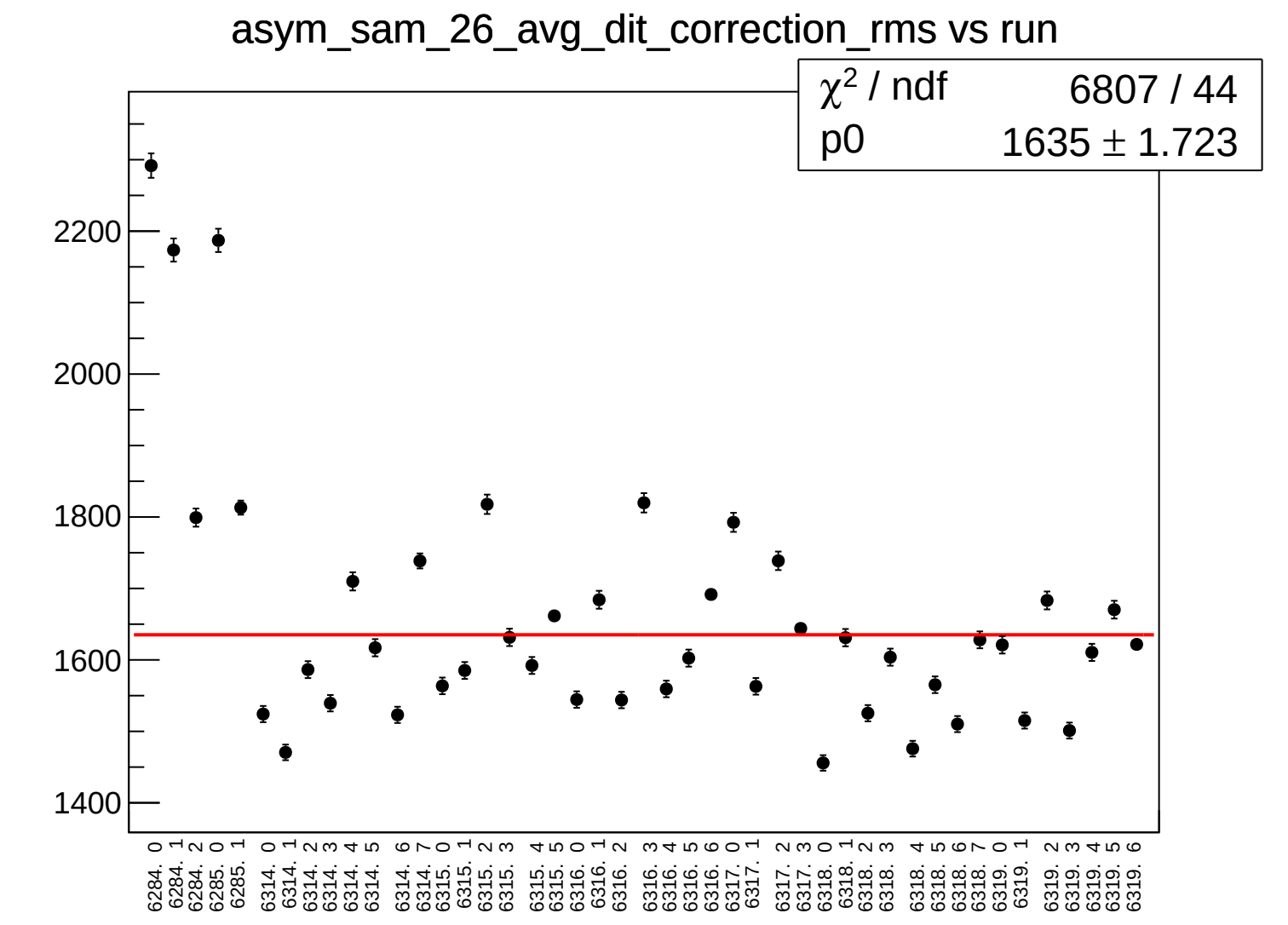
6319. 5
6319. 6


dit_asym_sam_26_avg_mean vs run
χ² / ndf 50.56 / 44
p0 −229.4 ± 312.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.354
Std Dev 1.099
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03527
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.219e+04 / 44
p0 207.6 ± 0.2207
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 44.21 / 44
p0 735.9 ± 2437
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 434.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004085
Std Dev 0.9911
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 6807 / 44
p0 1635 ± 1.723
2200
2000
1800
1600
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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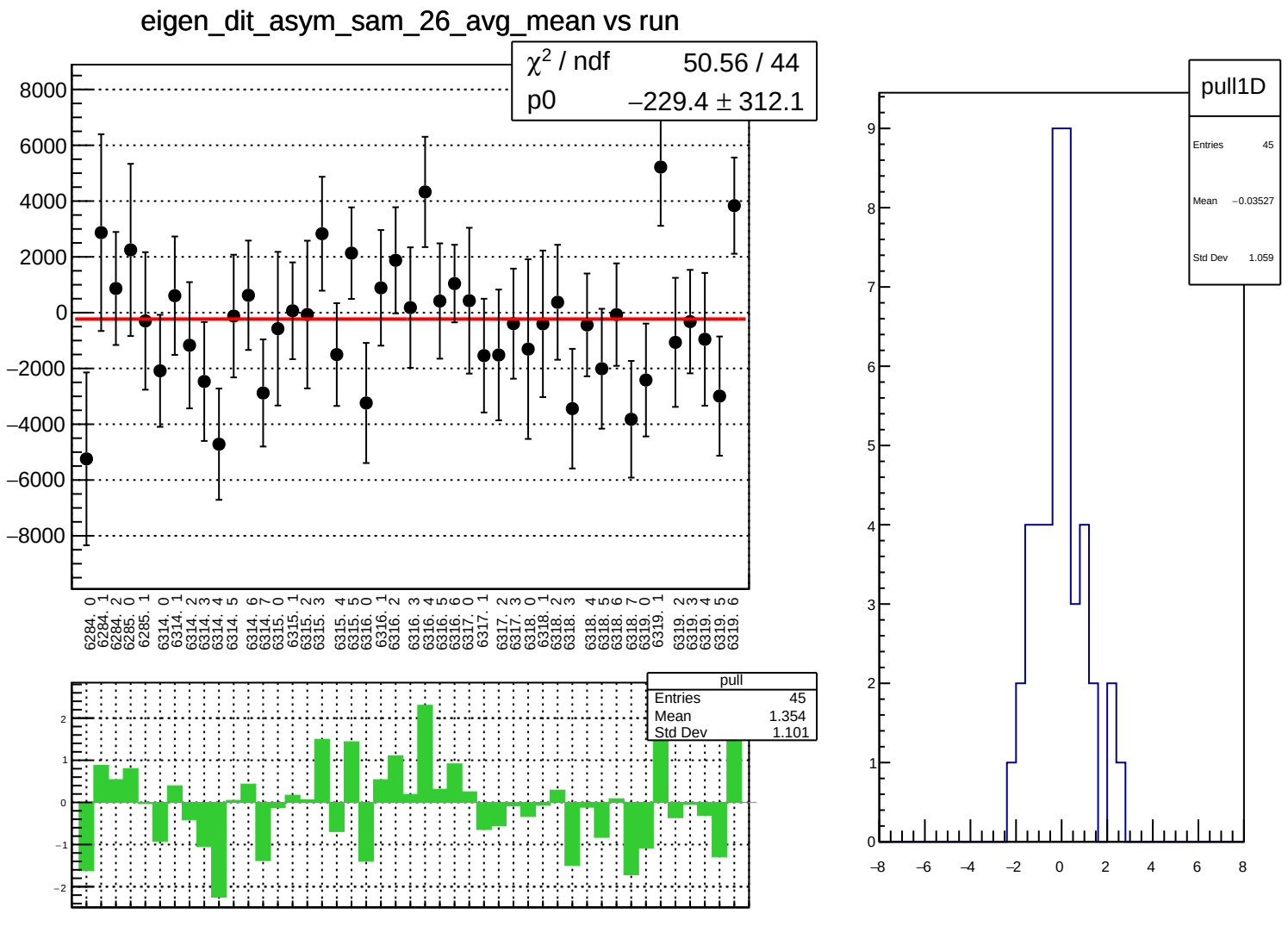
6319. 5
6319. 6


eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 50.56 / 44
p0 −229.4 ± 312.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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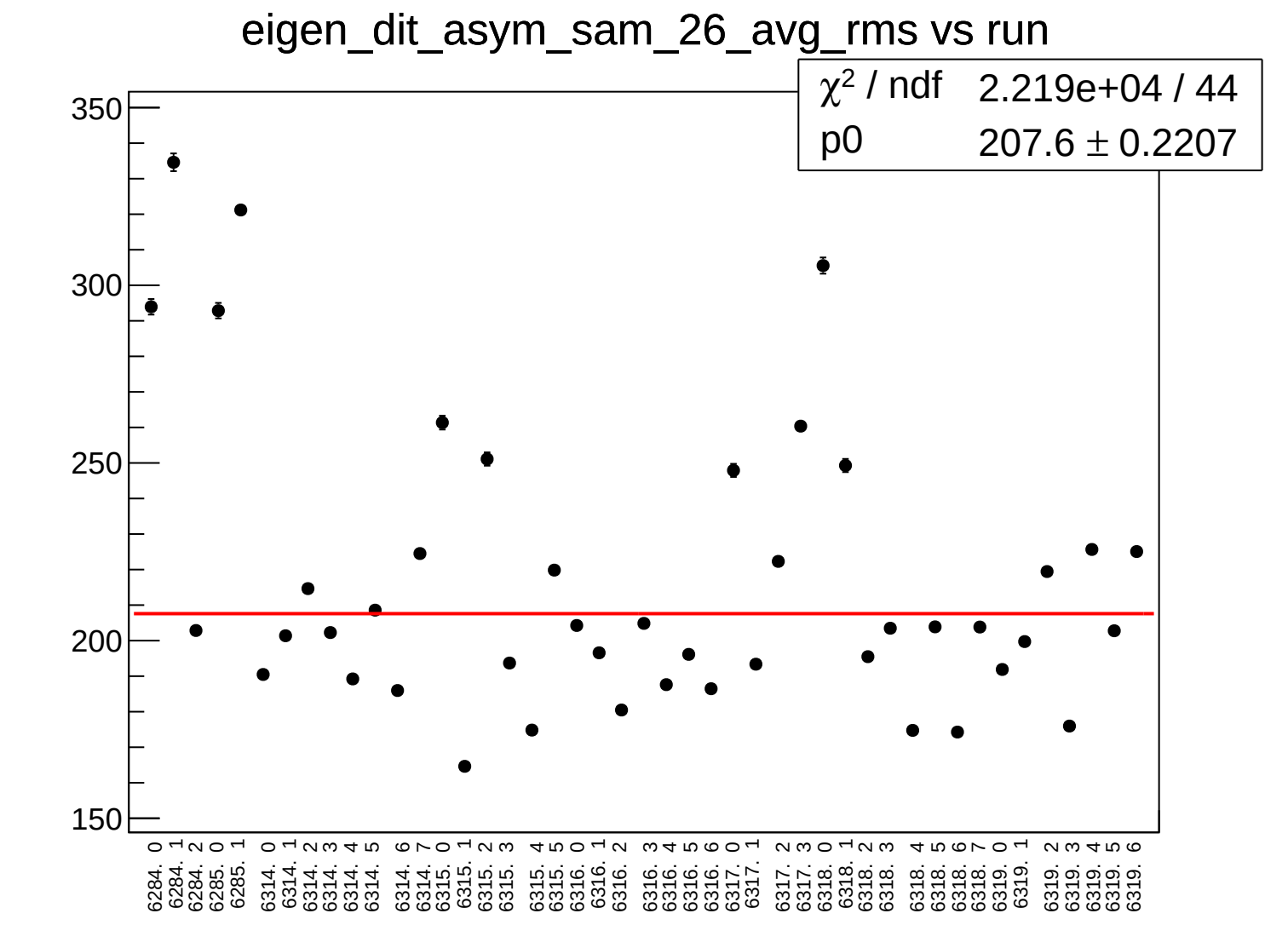
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1.354
Std Dev 1.101
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03527
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.219e+04 / 44
p0 207.6 ± 0.2207
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6319. 0
6319. 1
6319. 2
6319. 3
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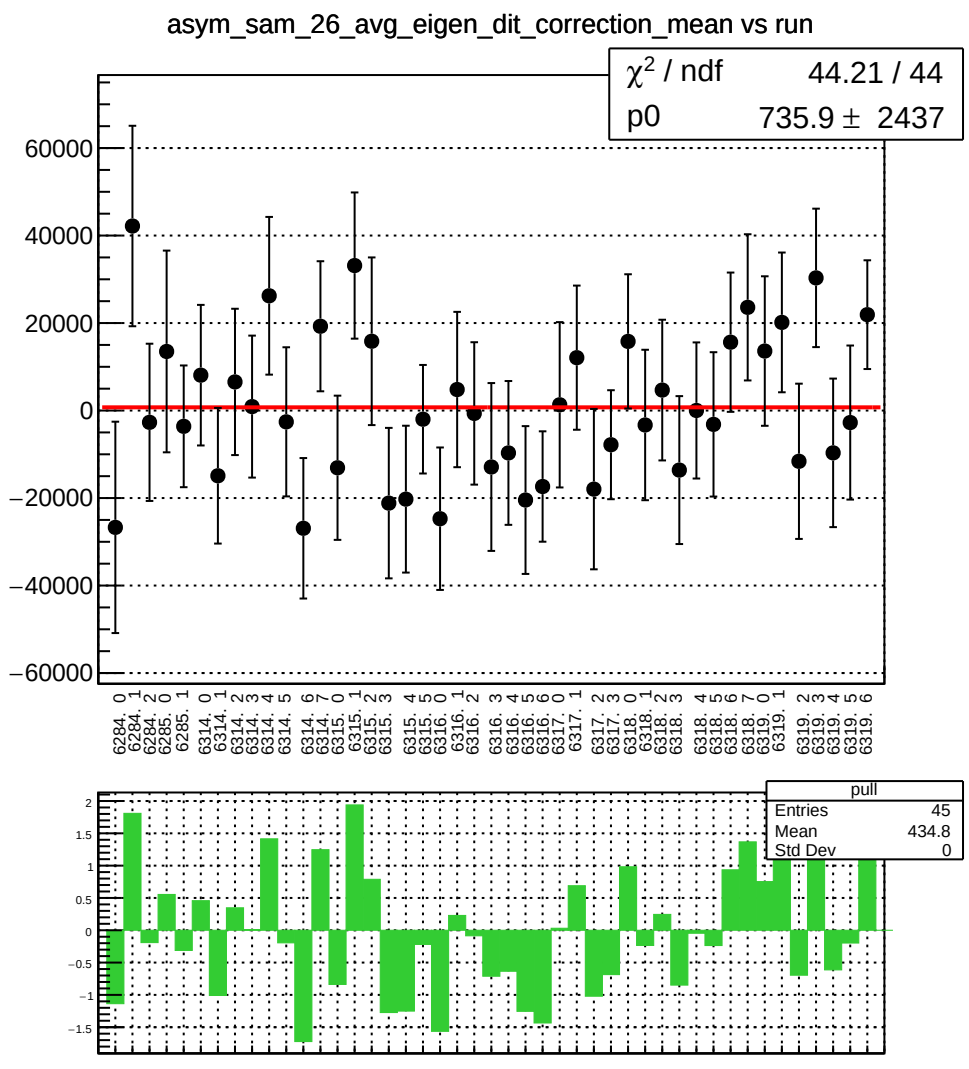
6319. 5
6319. 6


asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 44.21 / 44
p0 735.9 ± 2437
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
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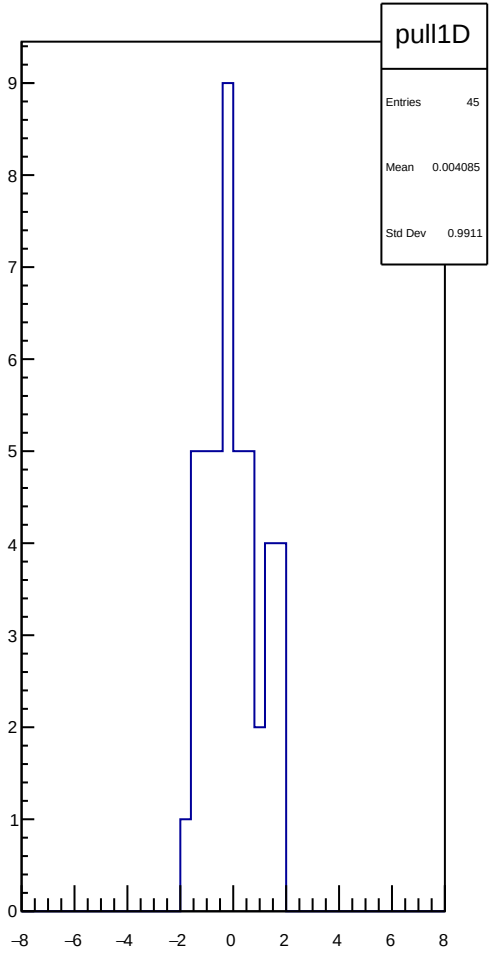
pull
Entries 45
Mean 434.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.004085
Std Dev 0.9911
9
8
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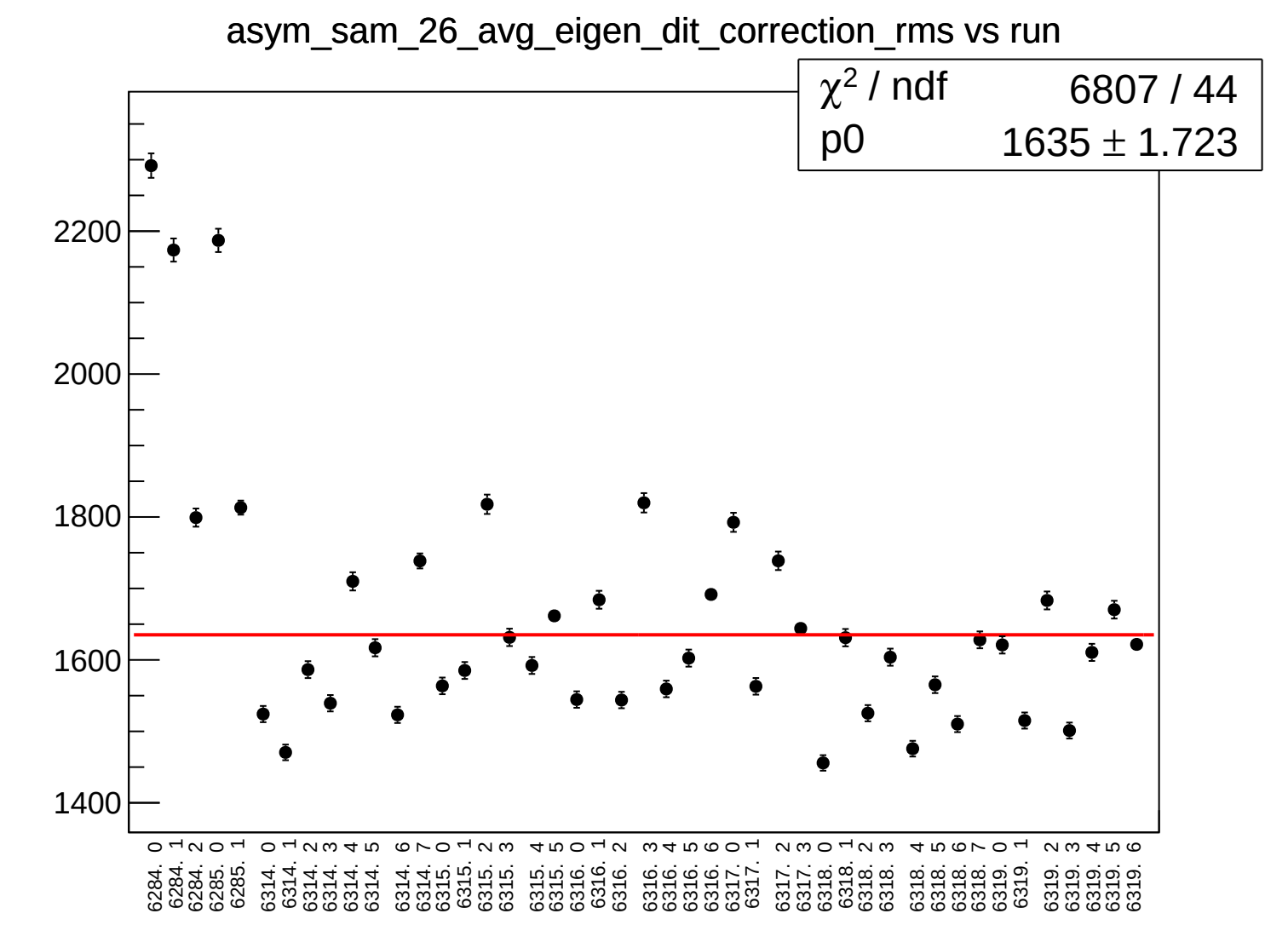
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 6807 / 44
p0 1635 ± 1.723
2200
2000
1800
1600
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
6315. 0
6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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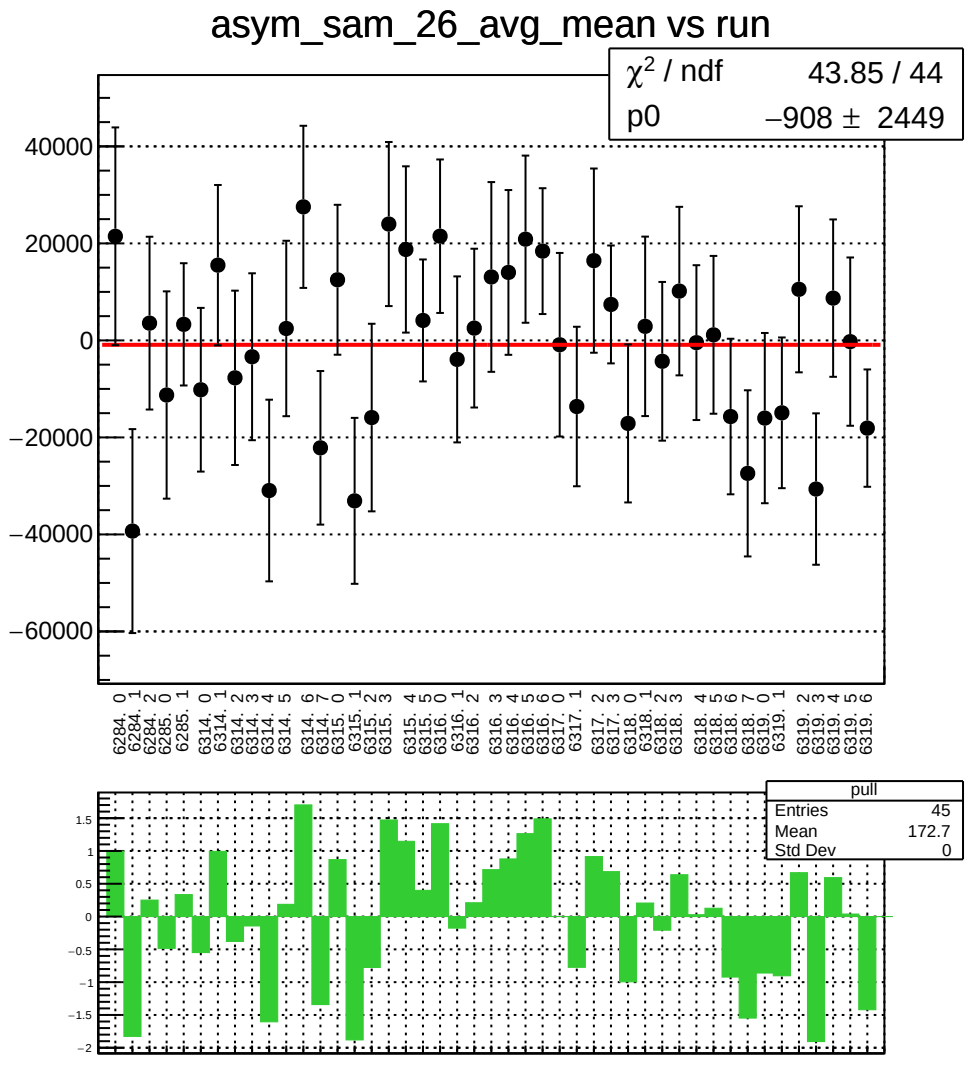
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_avg_mean vs run
χ² / ndf 43.85 / 44
p0 −908 ± 2449
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 6
6314. 7
6315. 0
6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
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6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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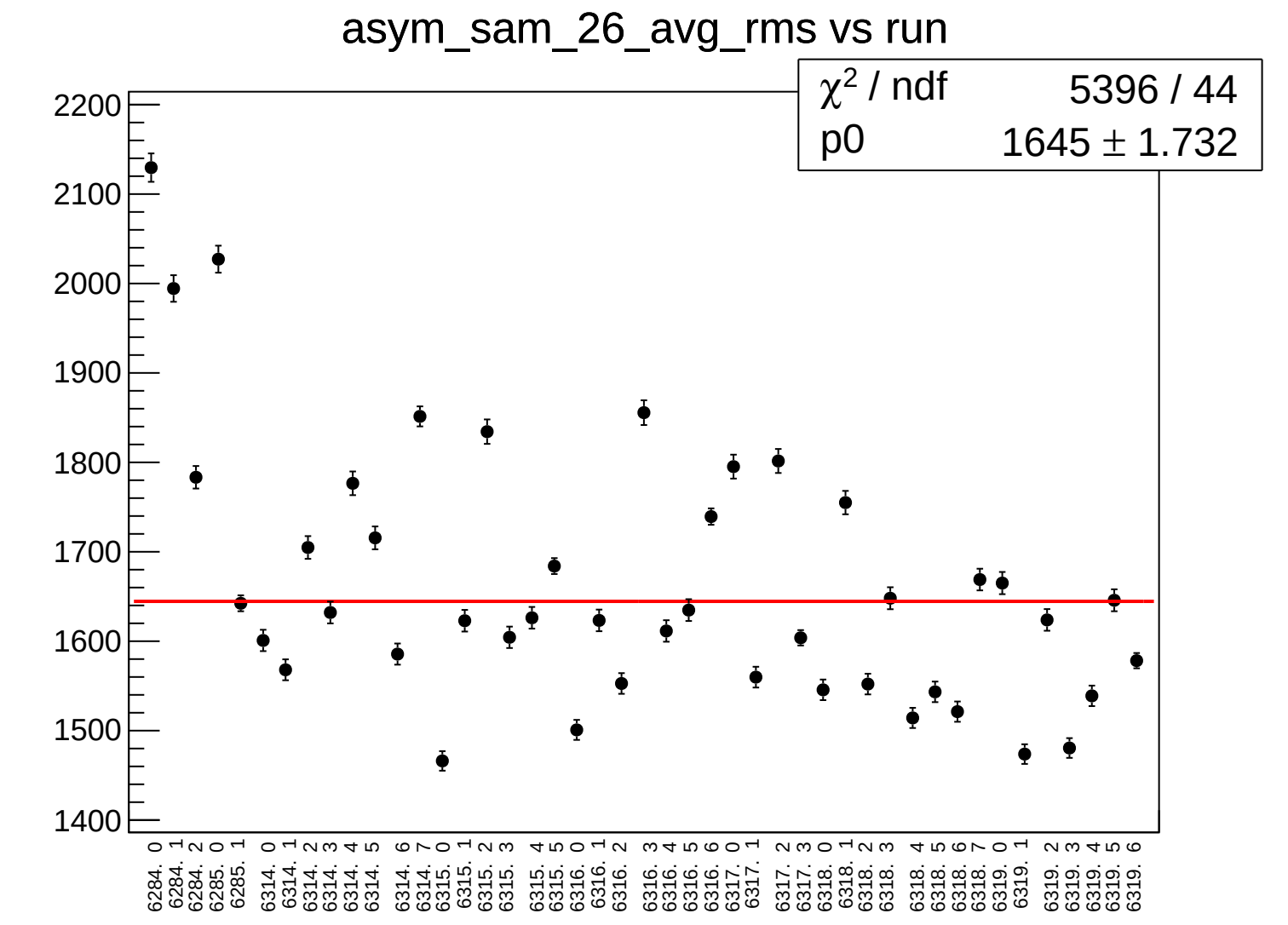
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 172.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01057
Std Dev 0.9871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ^2 / ndf 5396 / 44
p0 1645 ± 1.732
2200
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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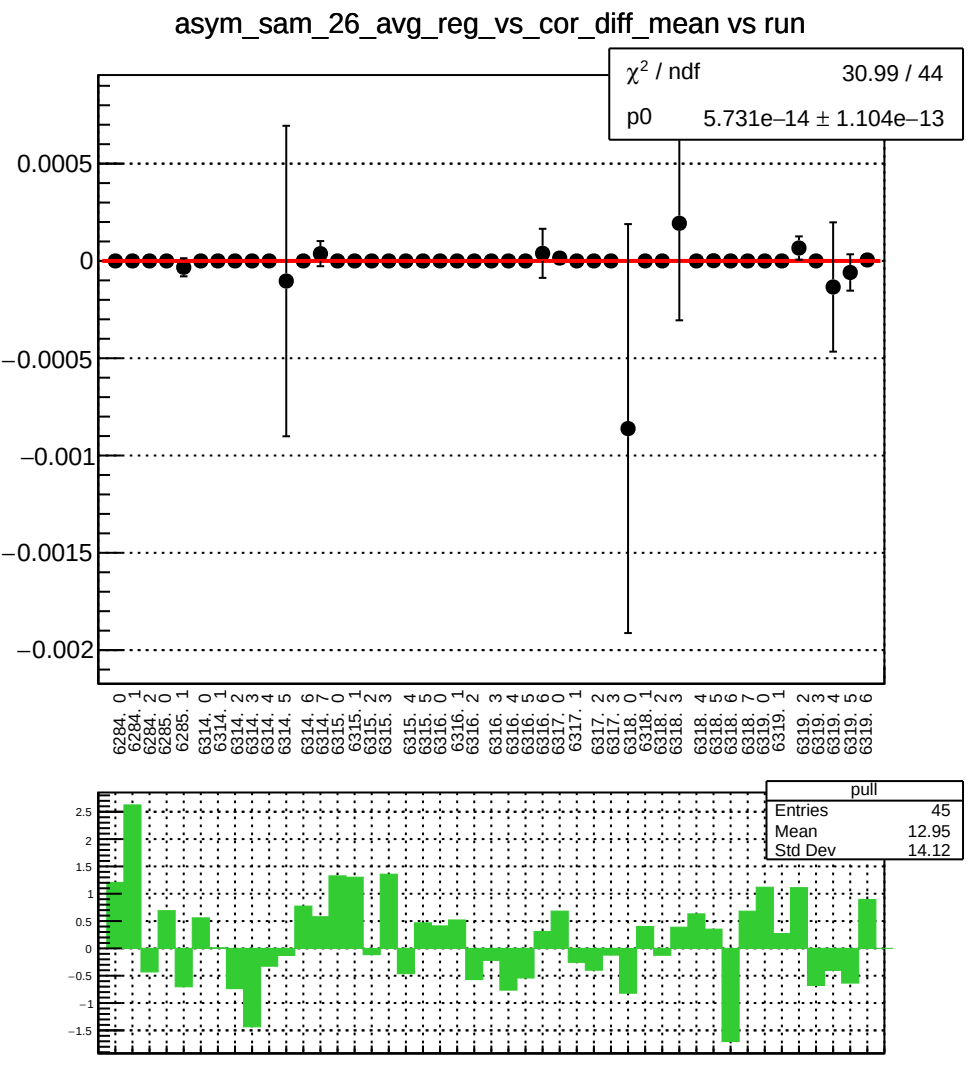
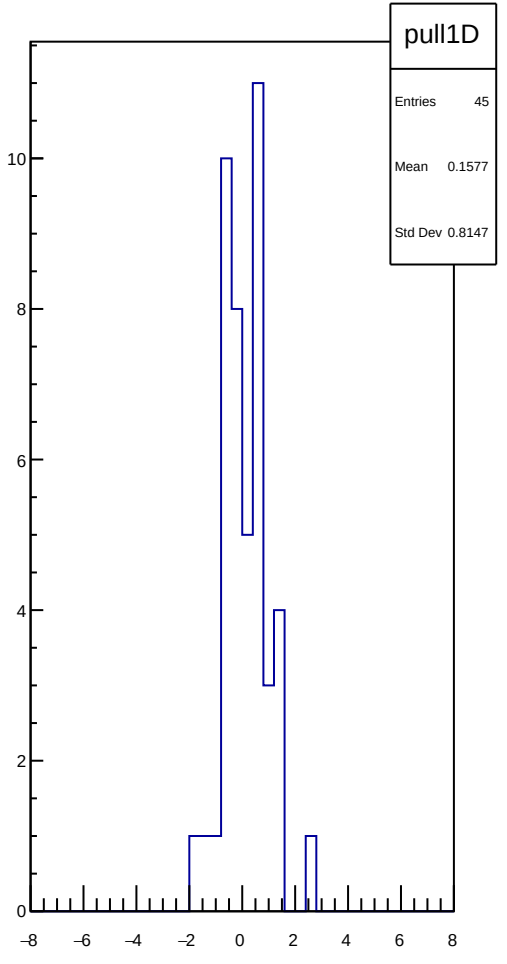
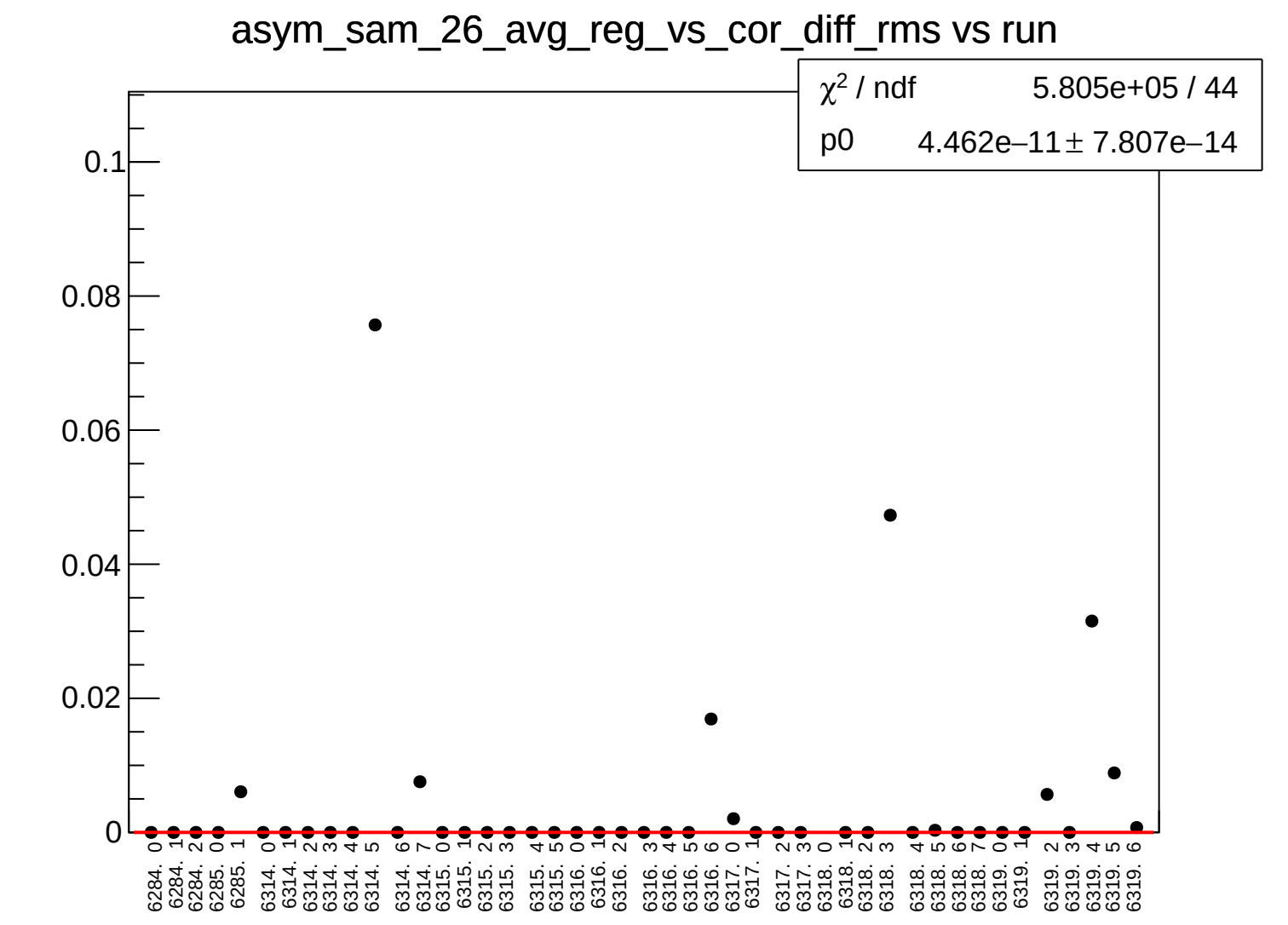
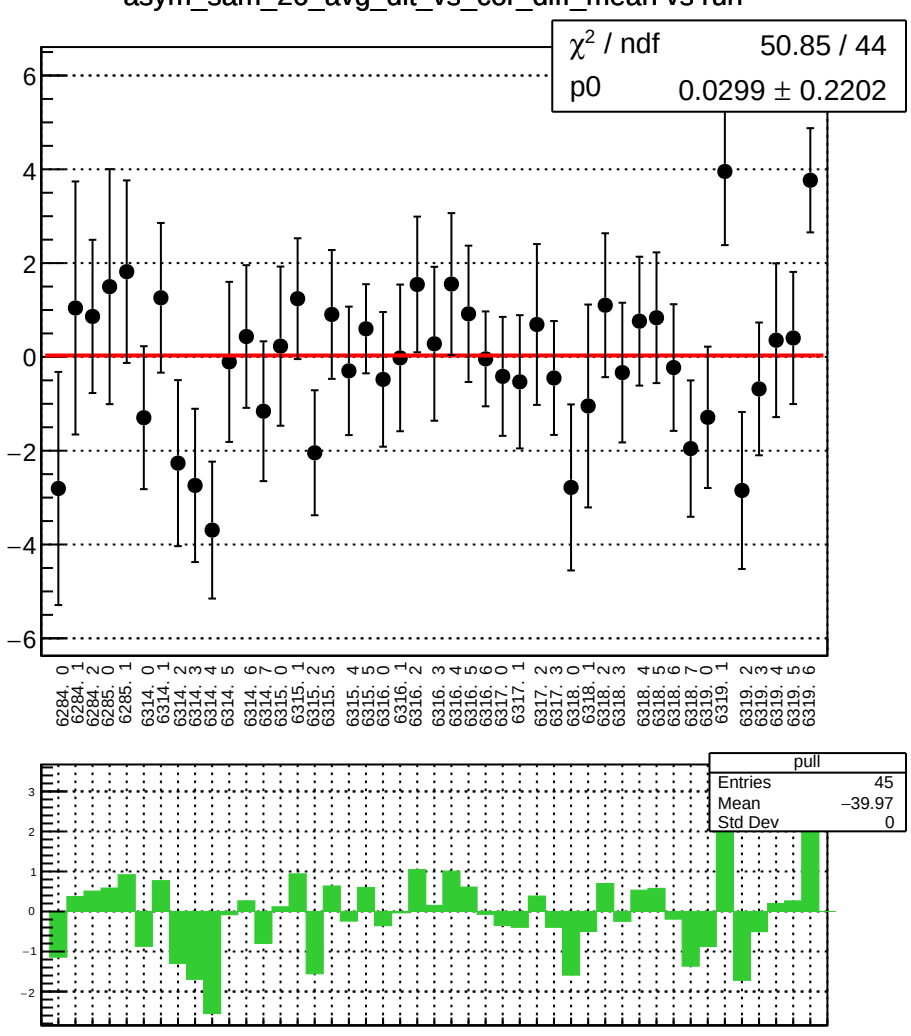
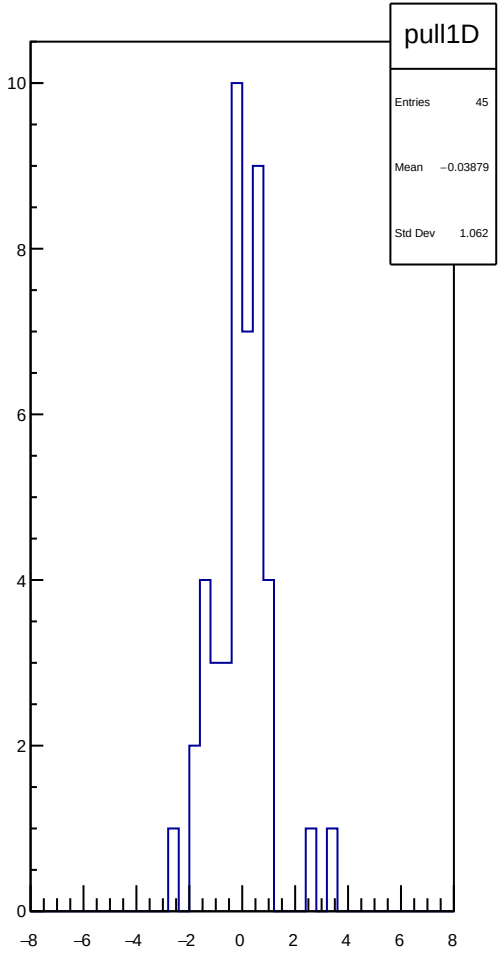
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

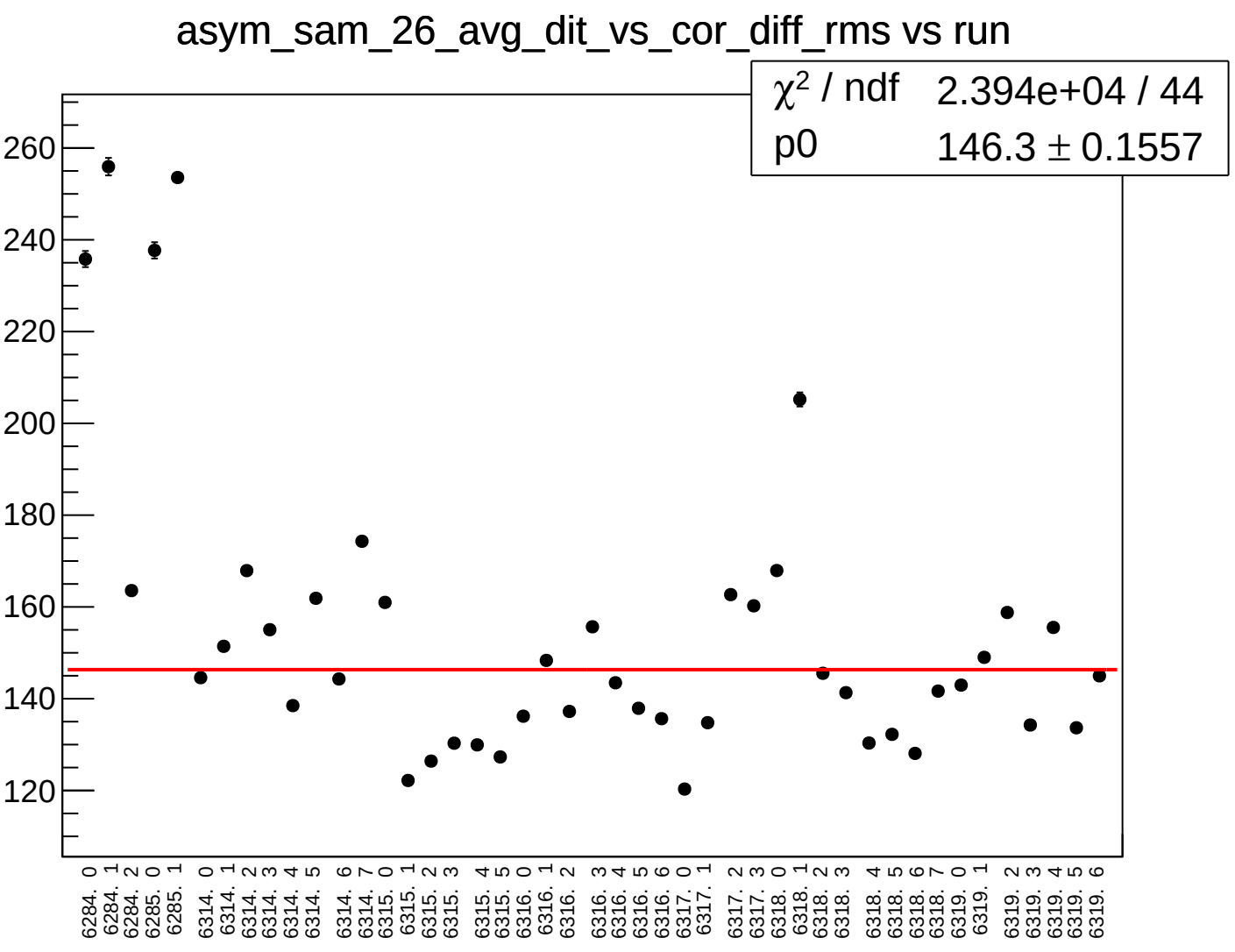

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.99 / 44
p0 5.731e−14 ± 1.104e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.95
Std Dev 14.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.1577
Std Dev 0.8147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

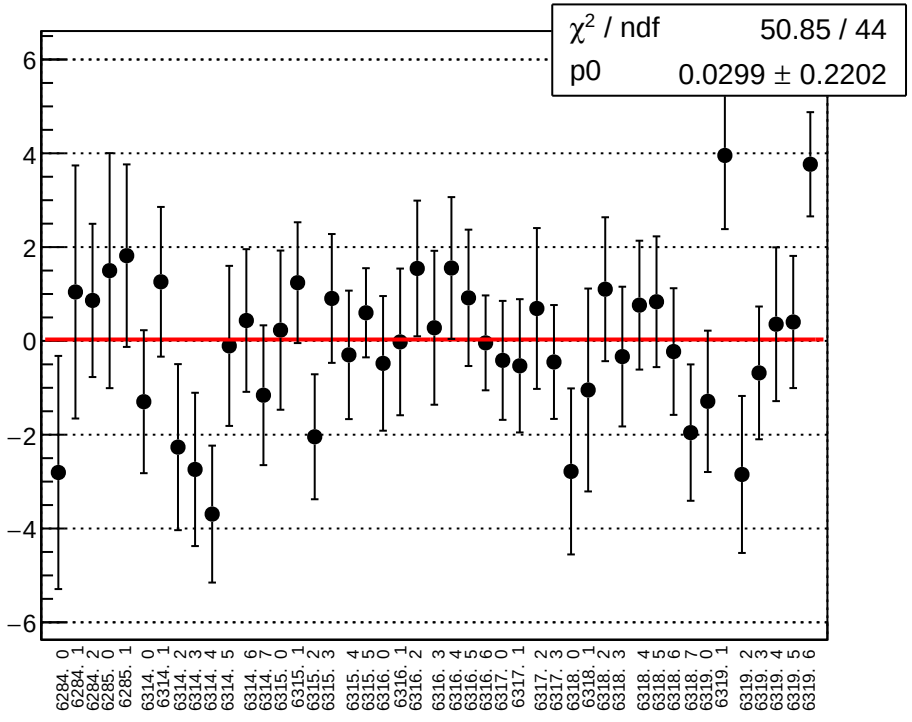

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.805e+05 / 44
p0 4.462e−11 ± 7.807e−14
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

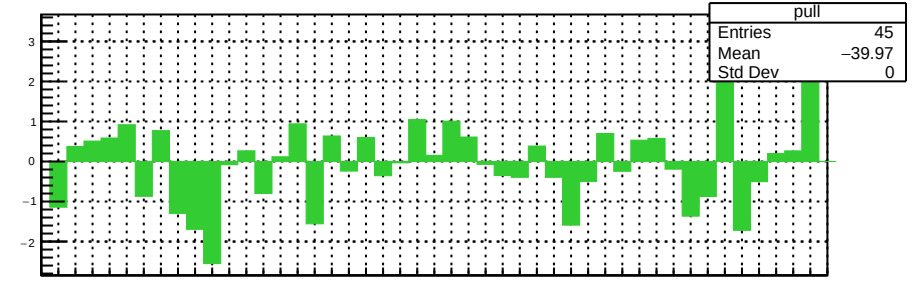

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.85 / 44
p0 0.0299 ± 0.2202
pull
Entries 45
Mean −39.97
Std Dev 0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

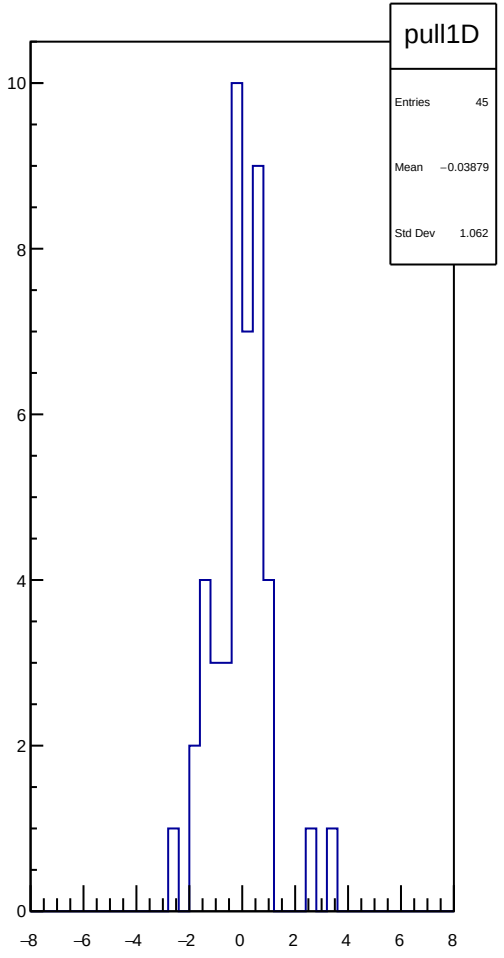

pull1D
Entries 45
Mean −0.03879
Std Dev 1.062

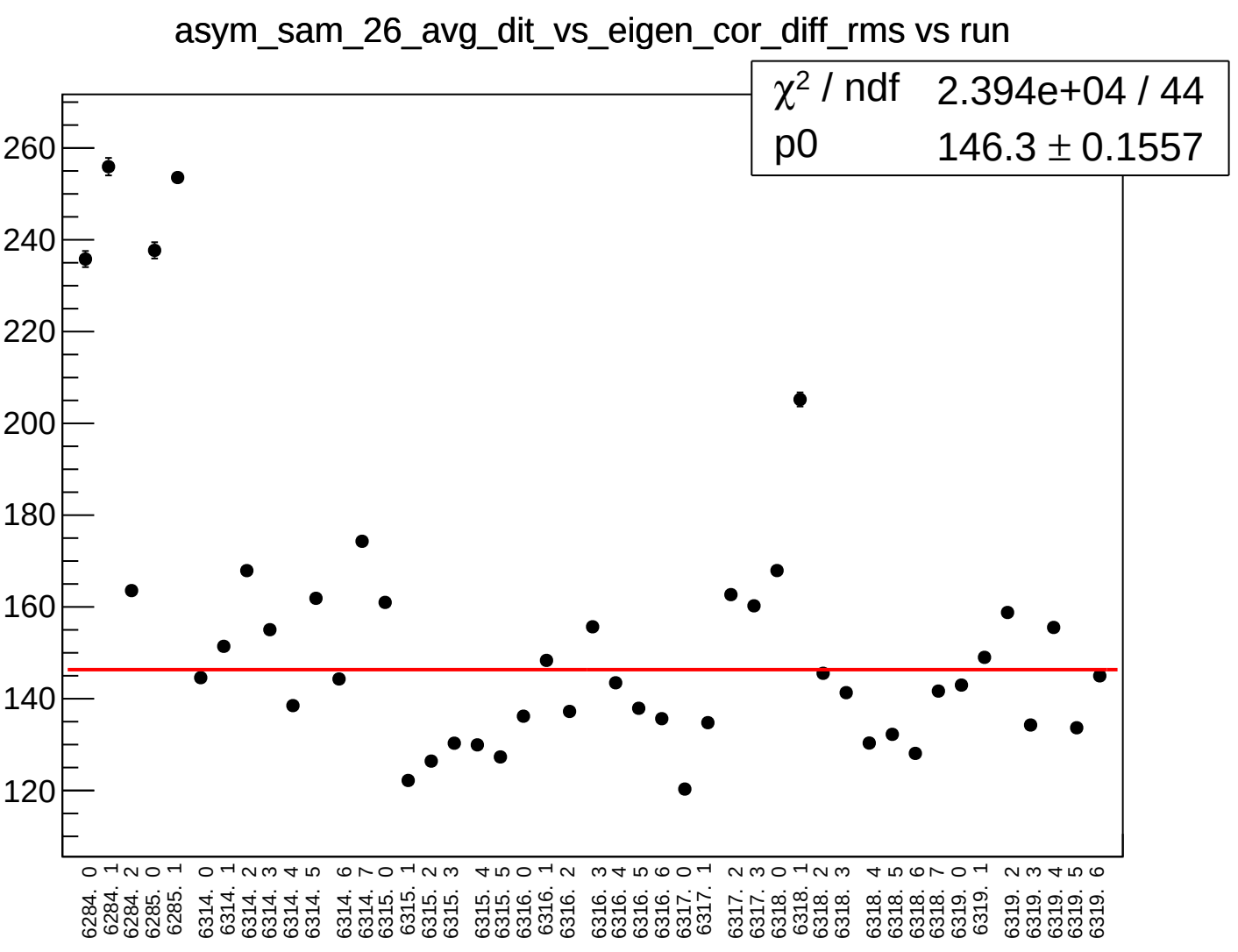

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.394e+04 / 44
p0 146.3 ± 0.1557
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

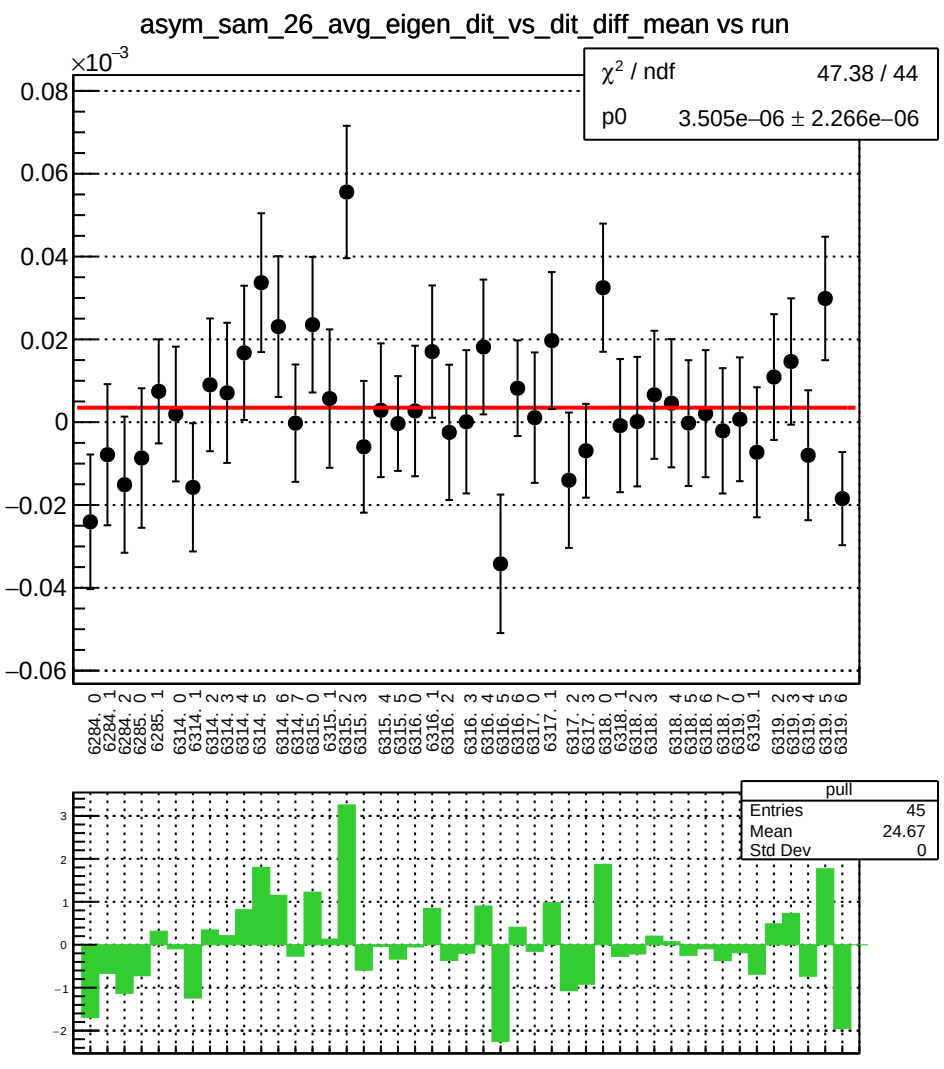
asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run

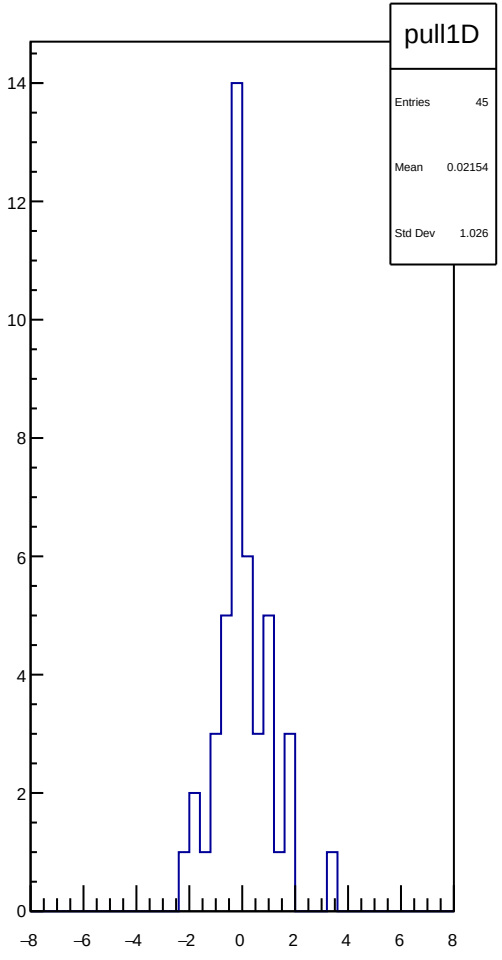


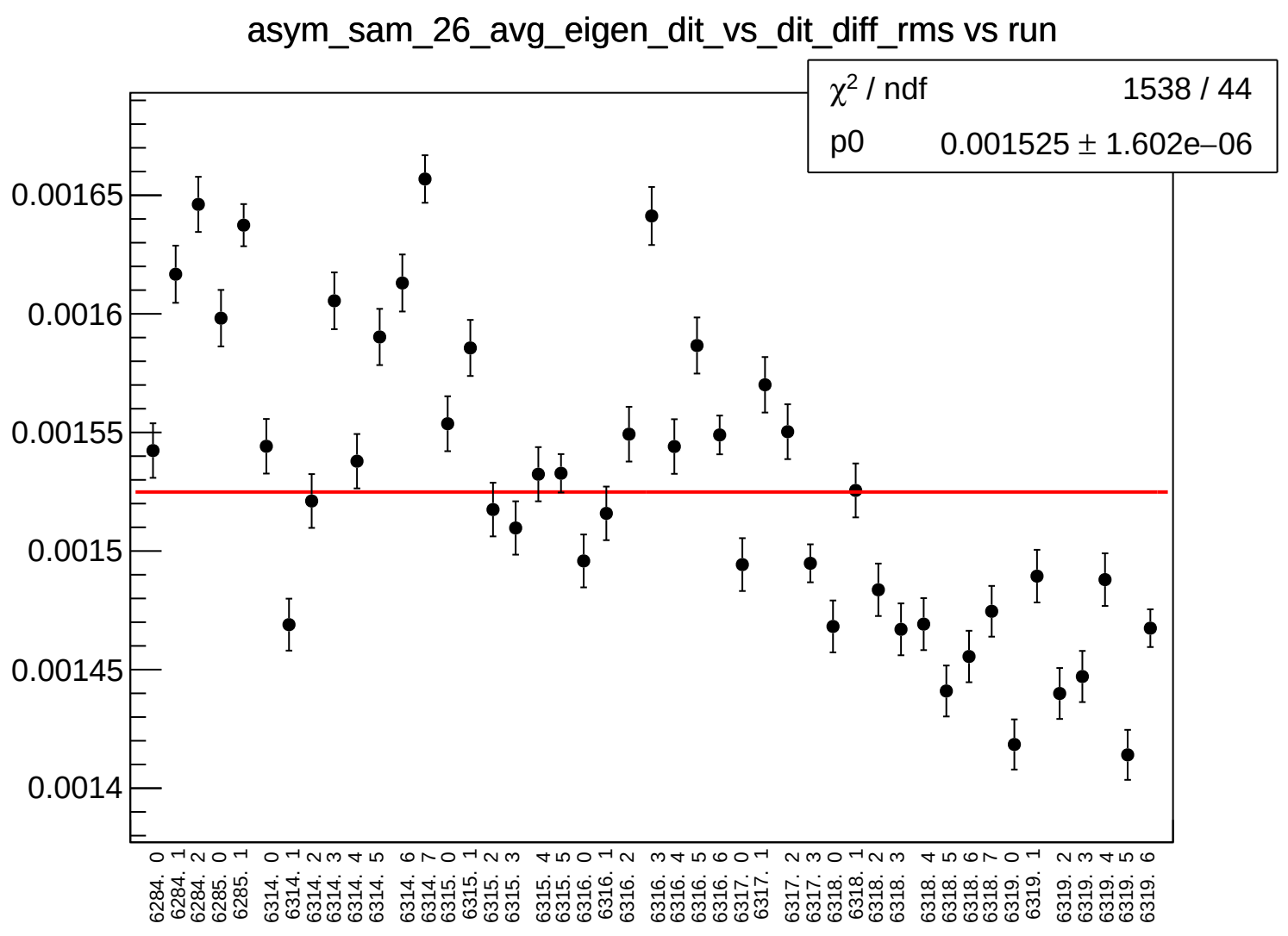




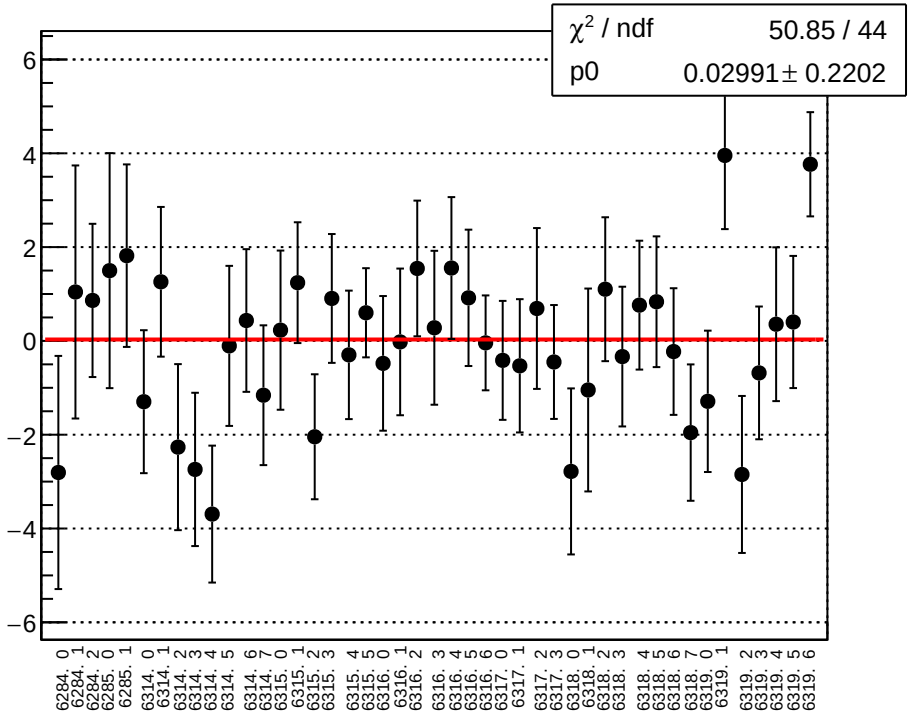

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.394e+04 / 44
p0 146.3 ± 0.1557
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

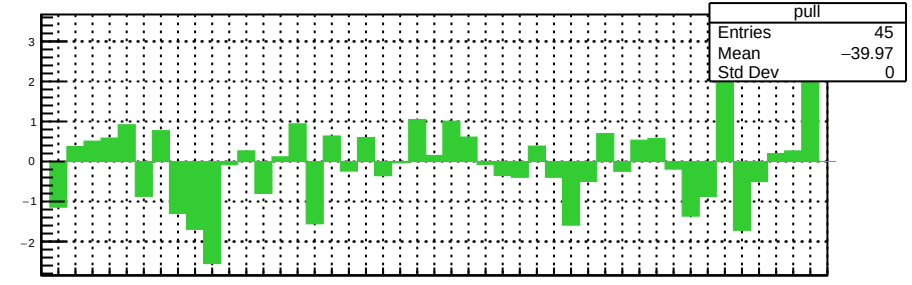

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.38 / 44
p0 3.505e−06 ± 2.266e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 24.67
Std Dev 0
3
2
1
0
−1
−2

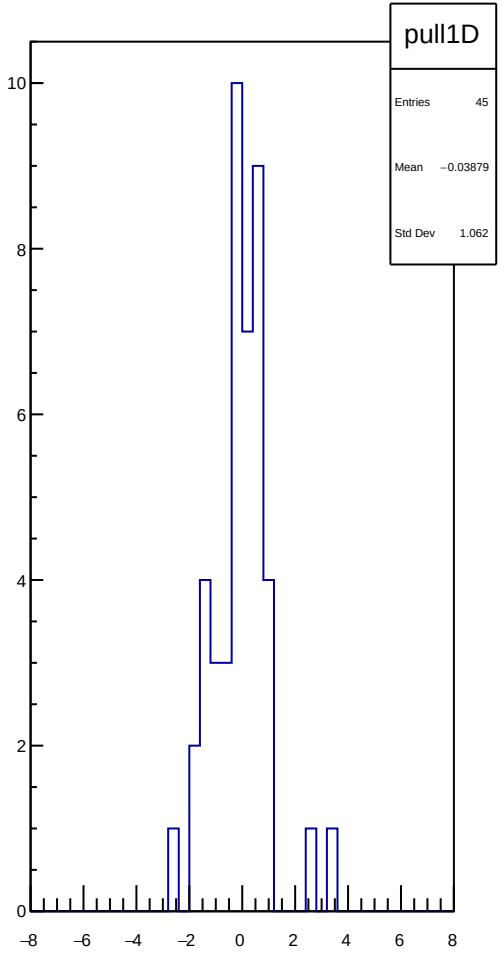

pull1D
Entries 45
Mean 0.02154
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

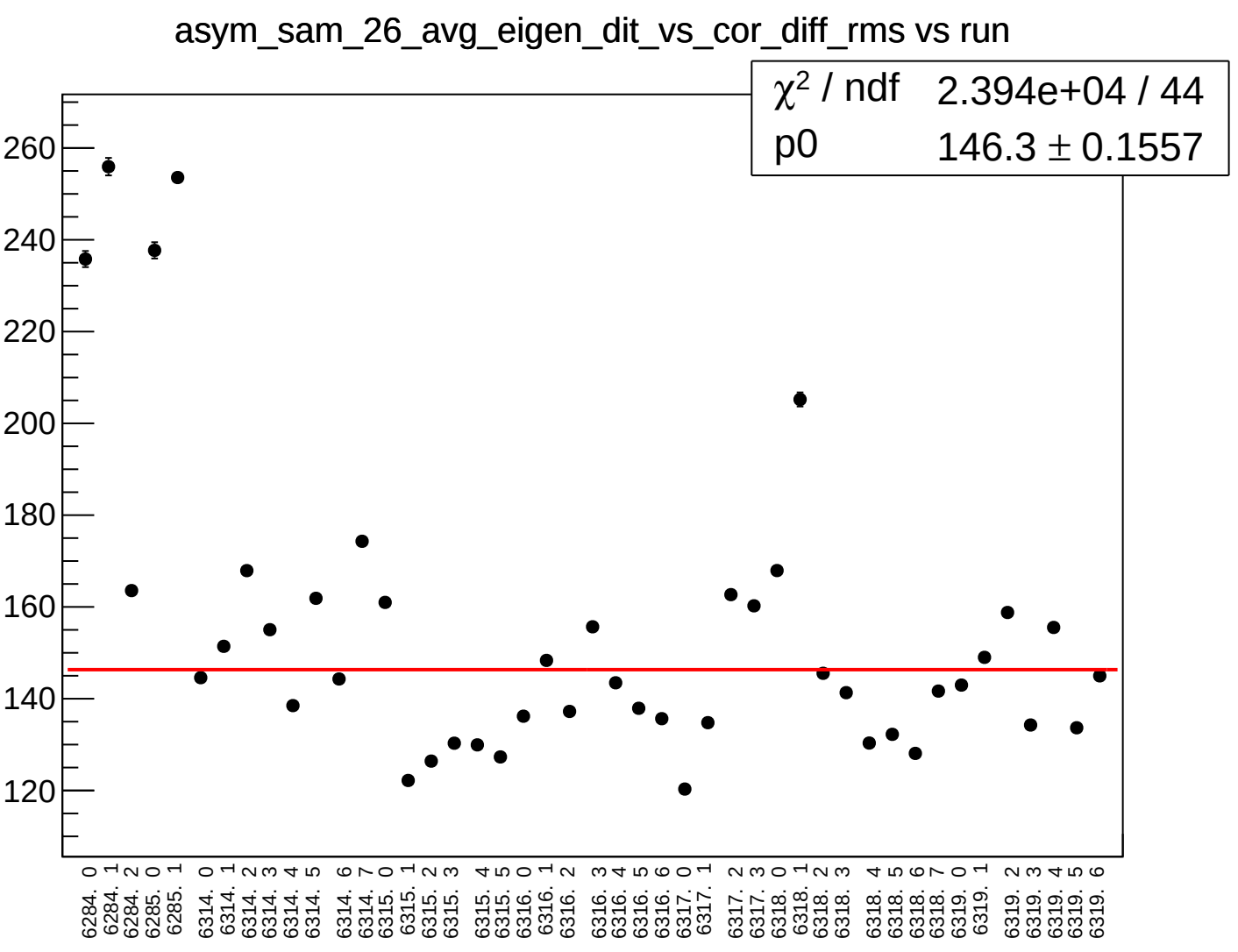

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1538 / 44
p0 0.001525 ± 1.602e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

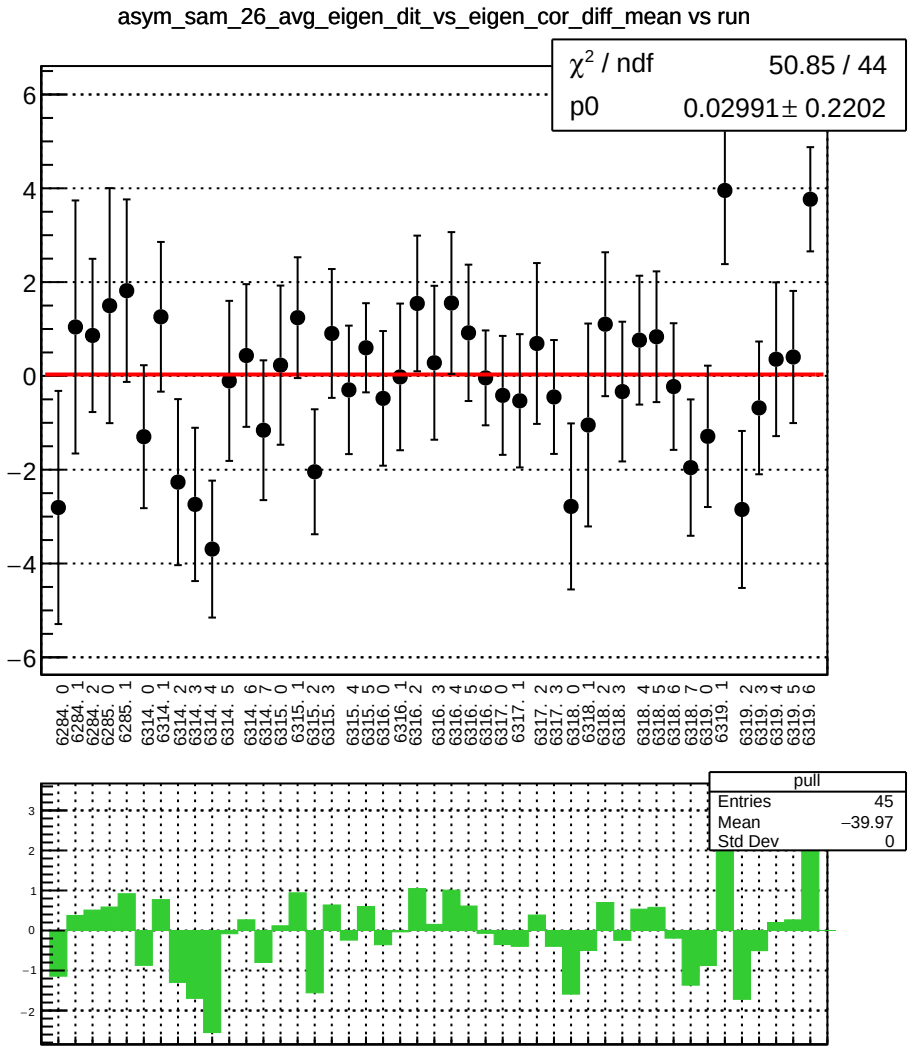
asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run

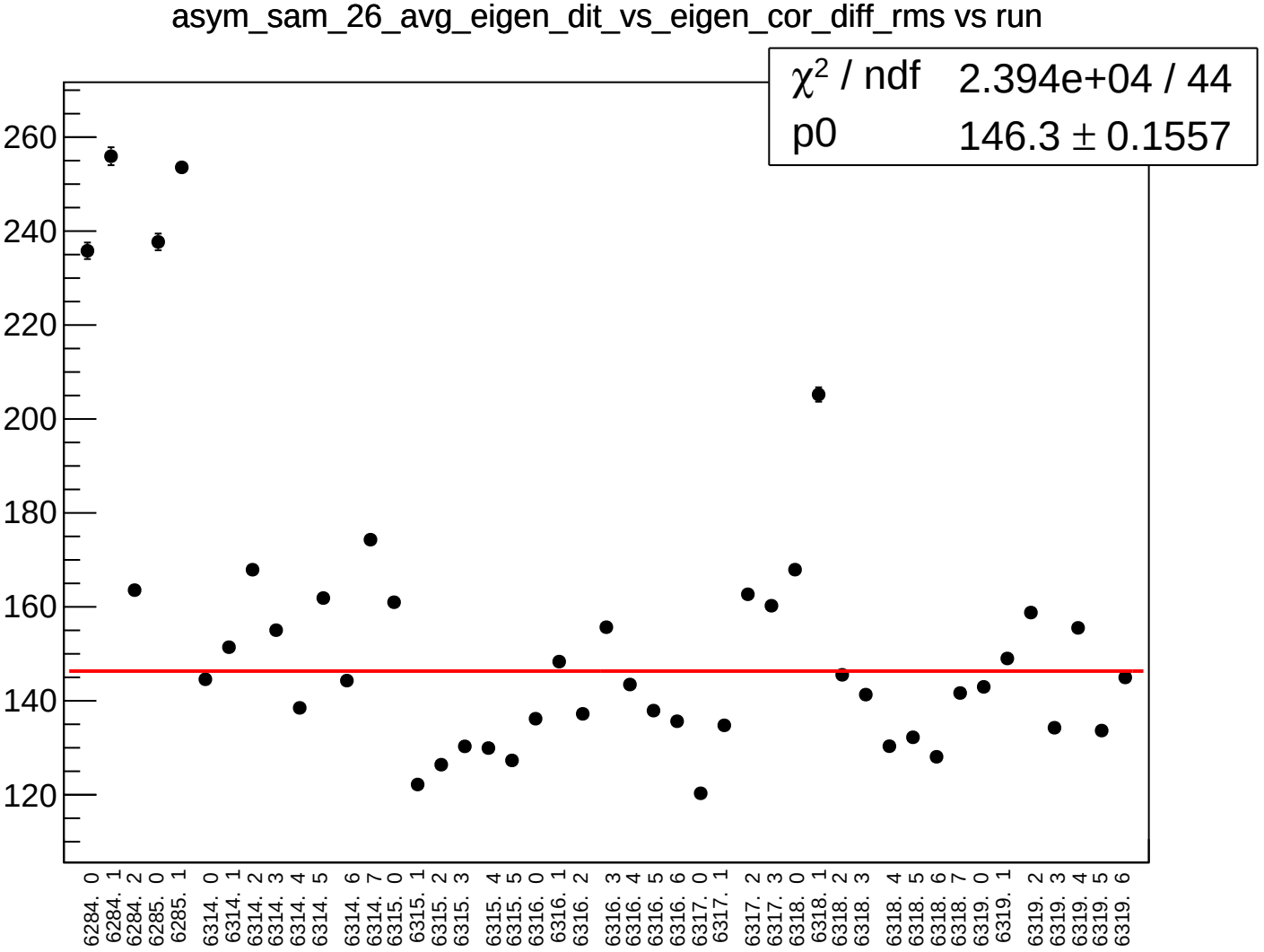


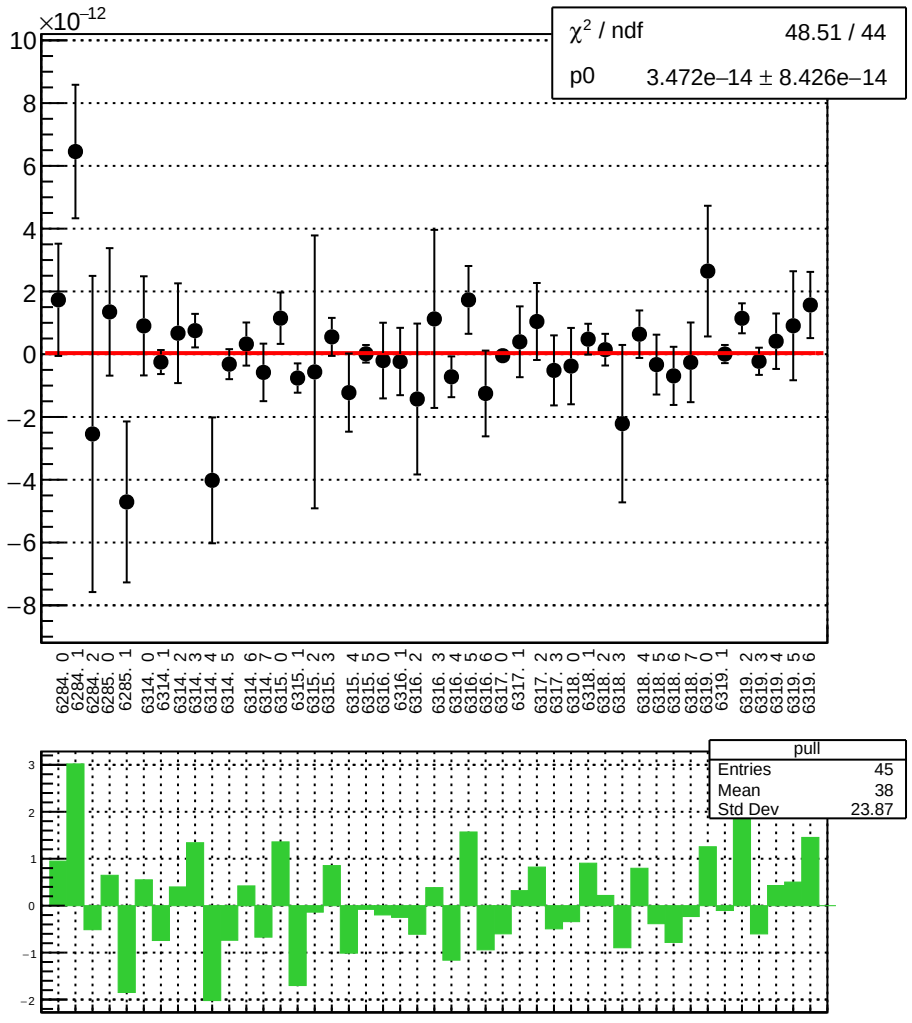


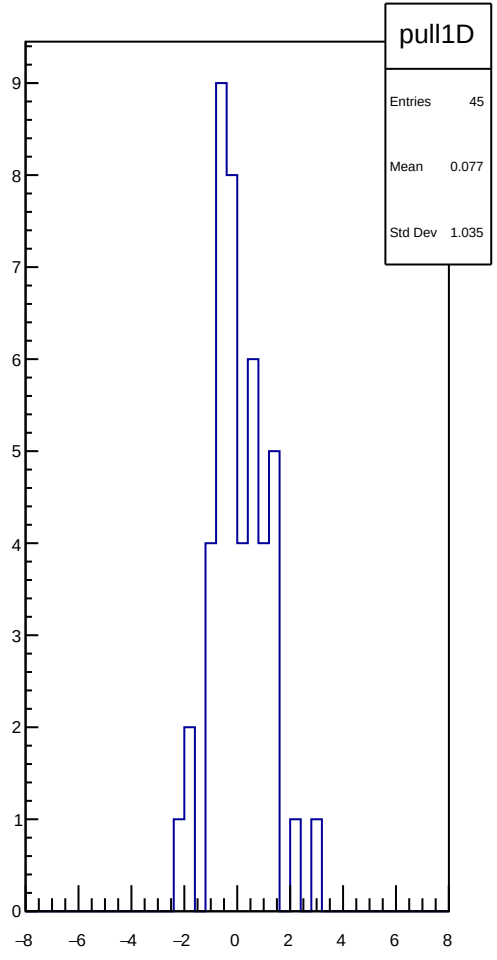


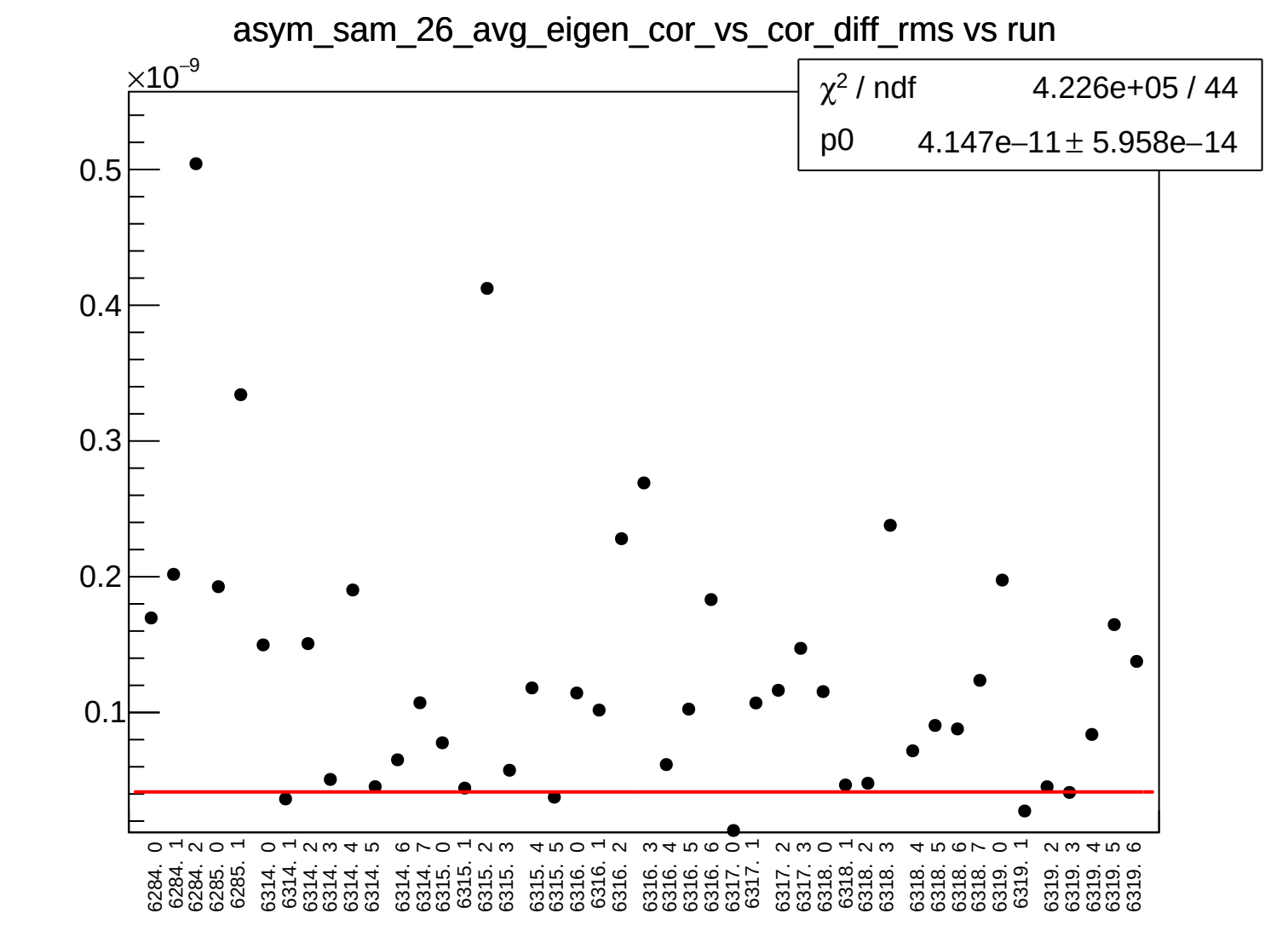

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.394e+04 / 44
p0 146.3 ± 0.1557
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

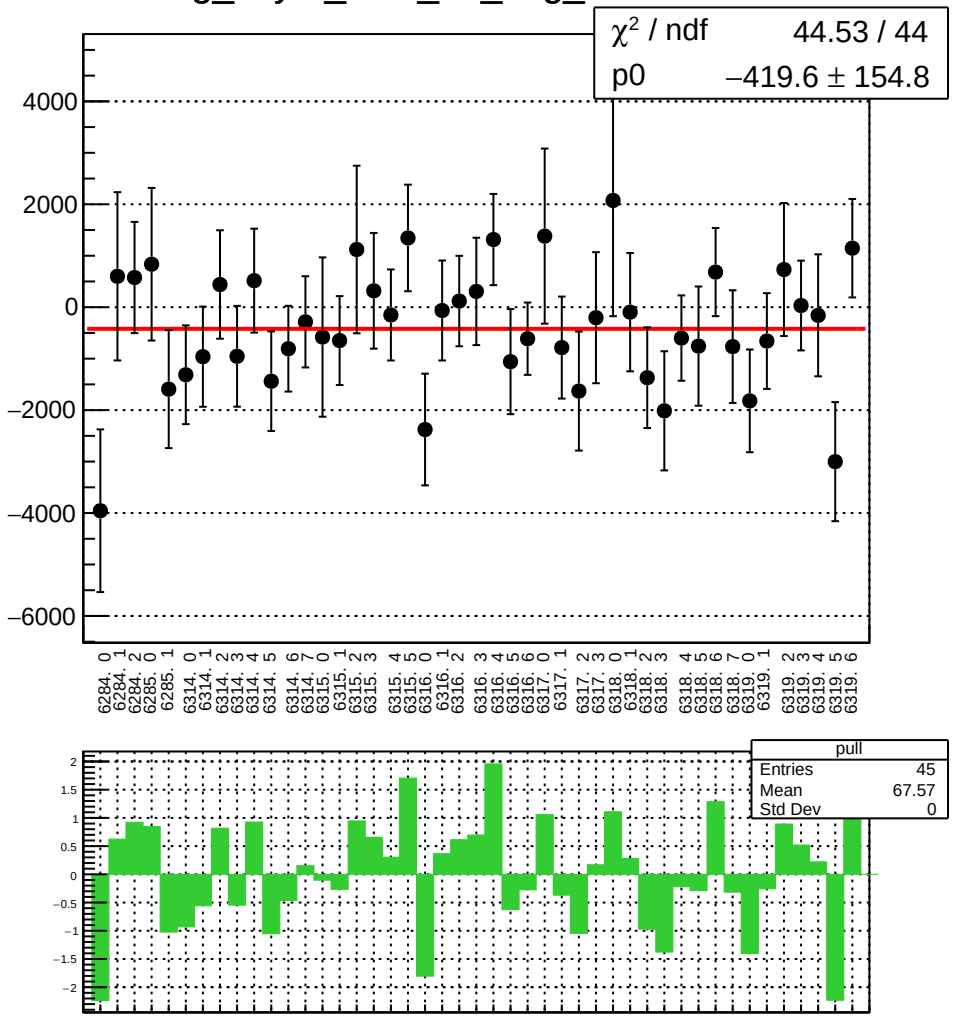

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.85 / 44
p0 0.02991± 0.2202
pull
Entries 45
Mean −39.97
Std Dev 0
pull1D
Entries 45
Mean −0.03879
Std Dev 1.062

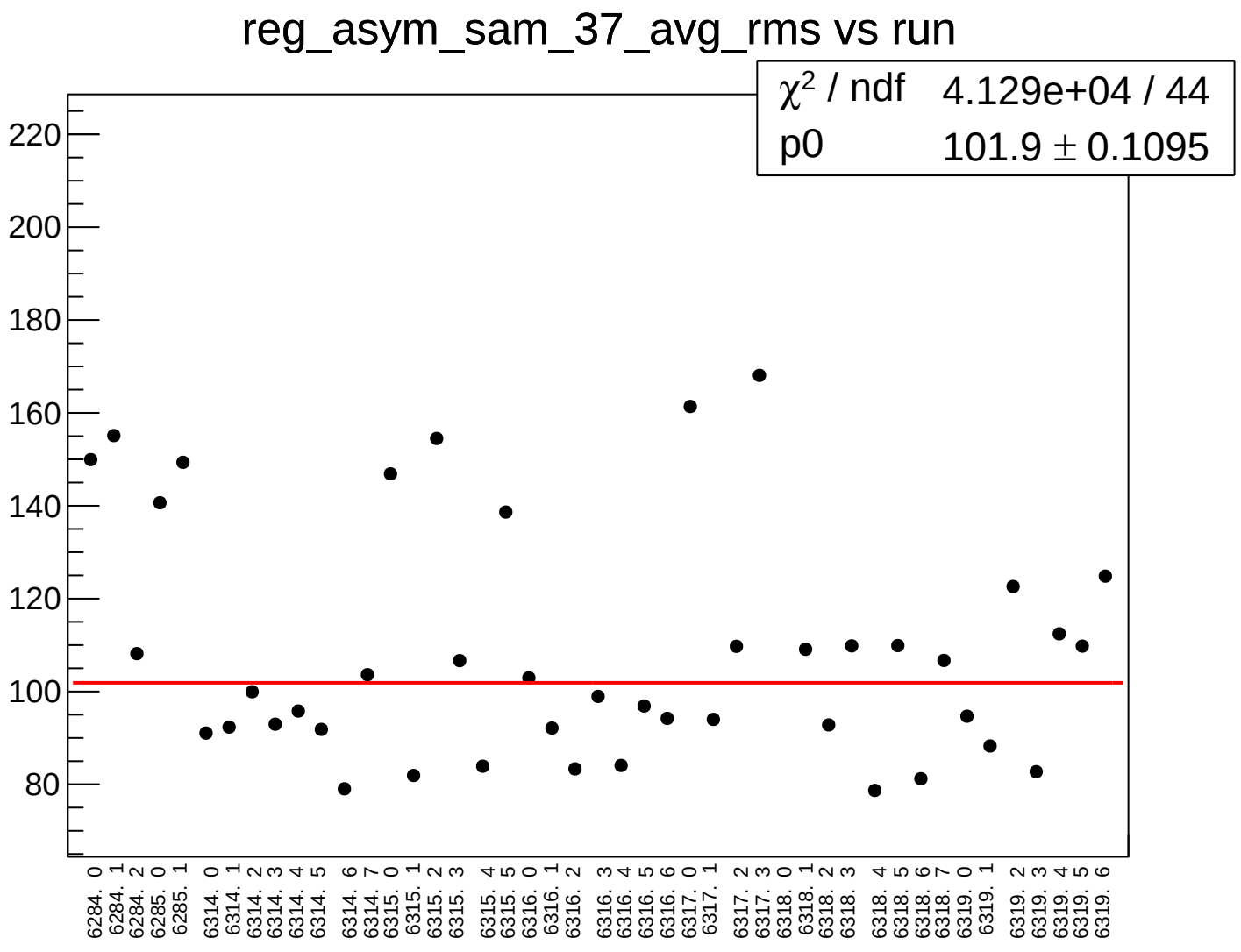

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.394e+04 / 44
p0 146.3 ± 0.1557
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.51 / 44
p0 3.472e−14 ± 8.426e−14
pull
Entries 45
Mean 38
Std Dev 23.87


pull1D
Entries 45
Mean 0.077
Std Dev 1.035


asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.226e+05 / 44
p0 4.147e−11 ± 5.958e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_37_avg_mean vs run
χ² / ndf 44.53 / 44
p0 −419.6 ± 154.8
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 67.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007777
Std Dev 0.9947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.129e+04 / 44
p0 101.9 ± 0.1095
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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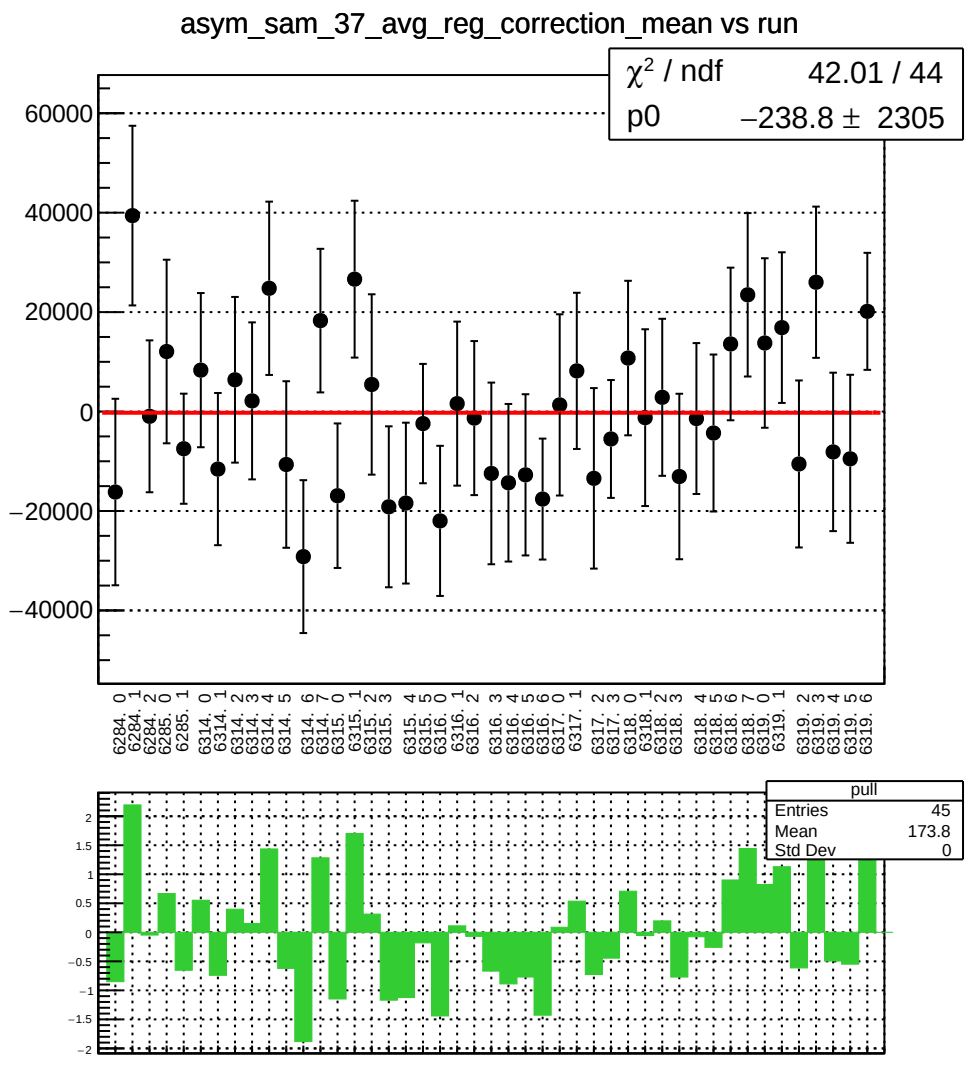
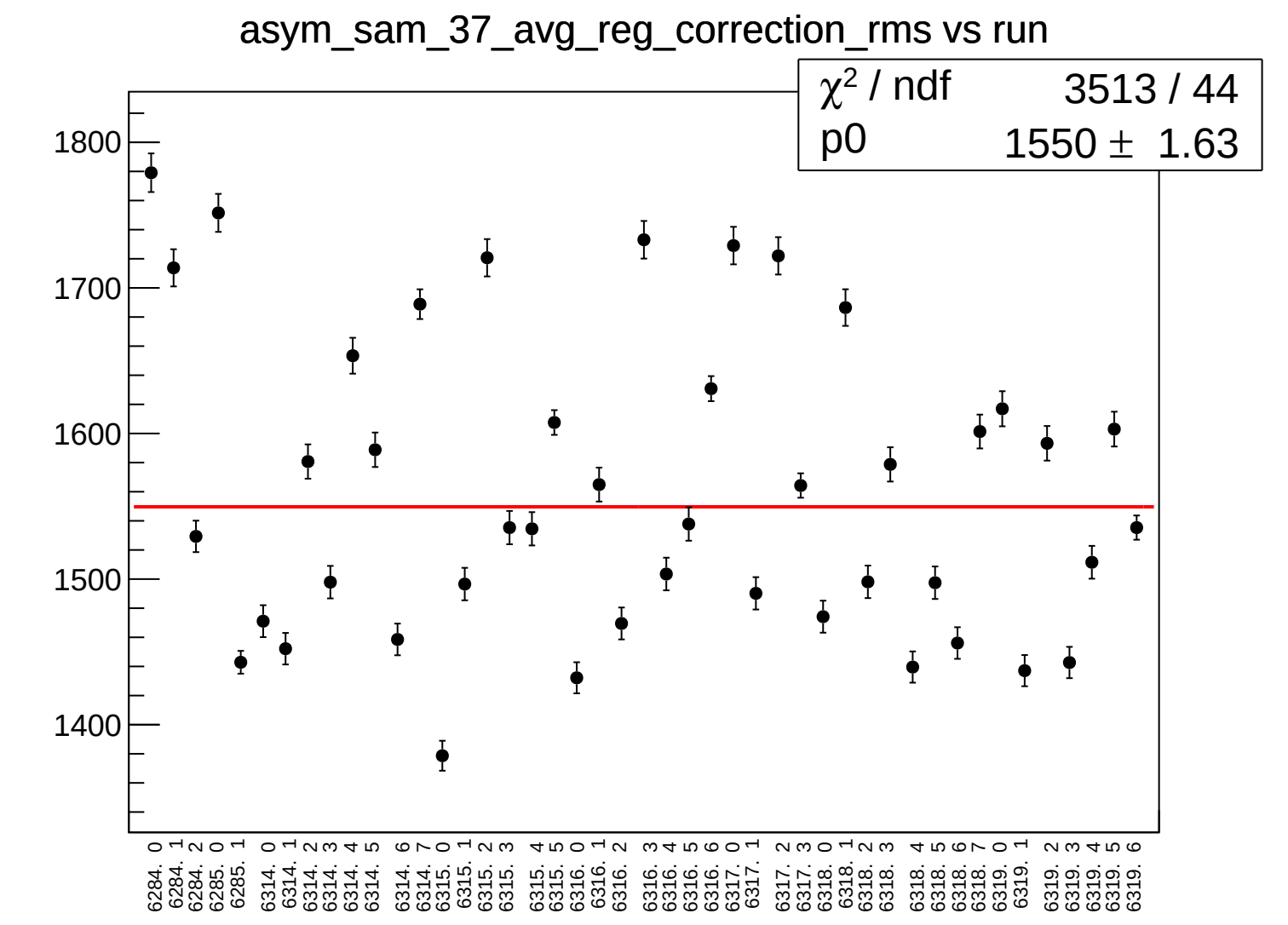
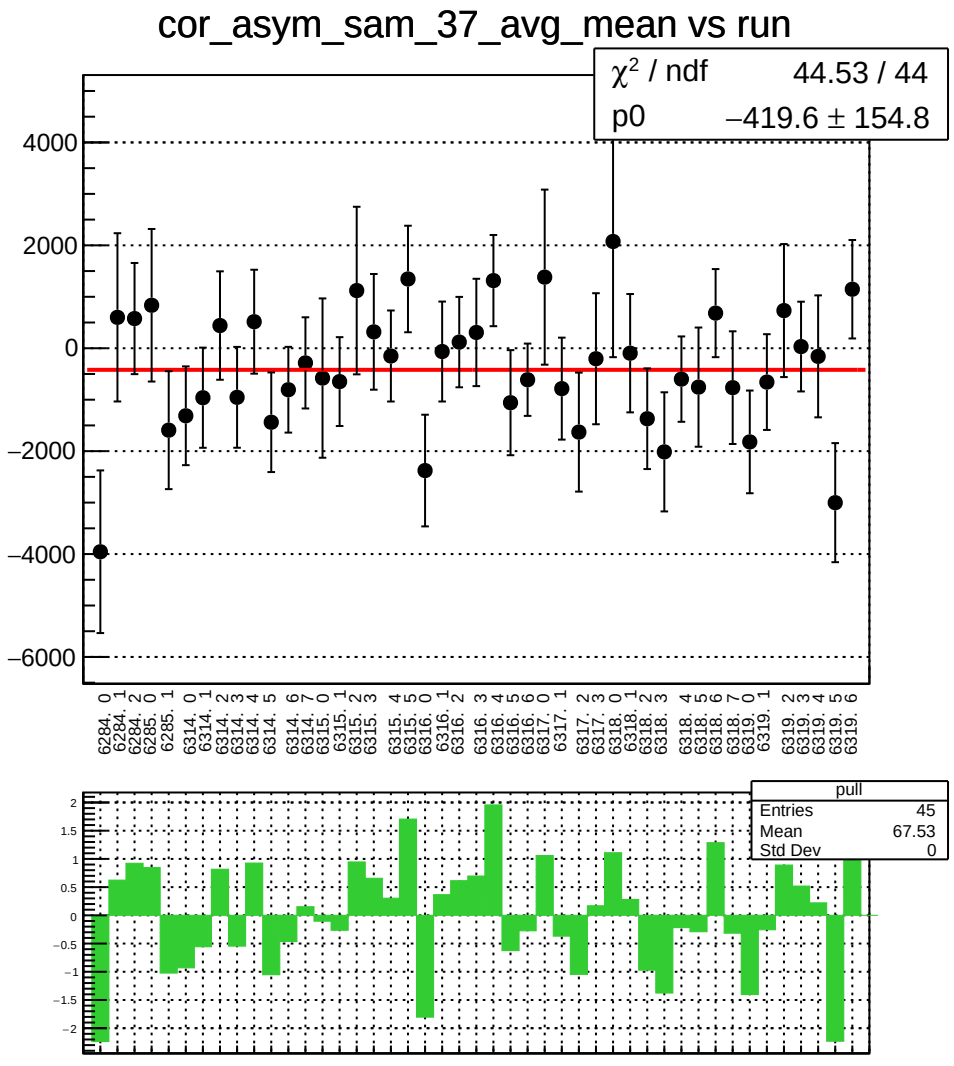
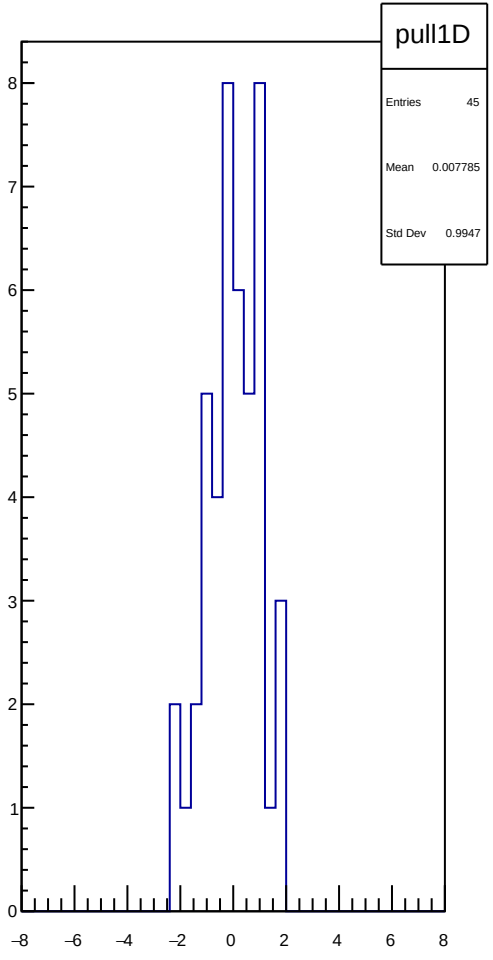
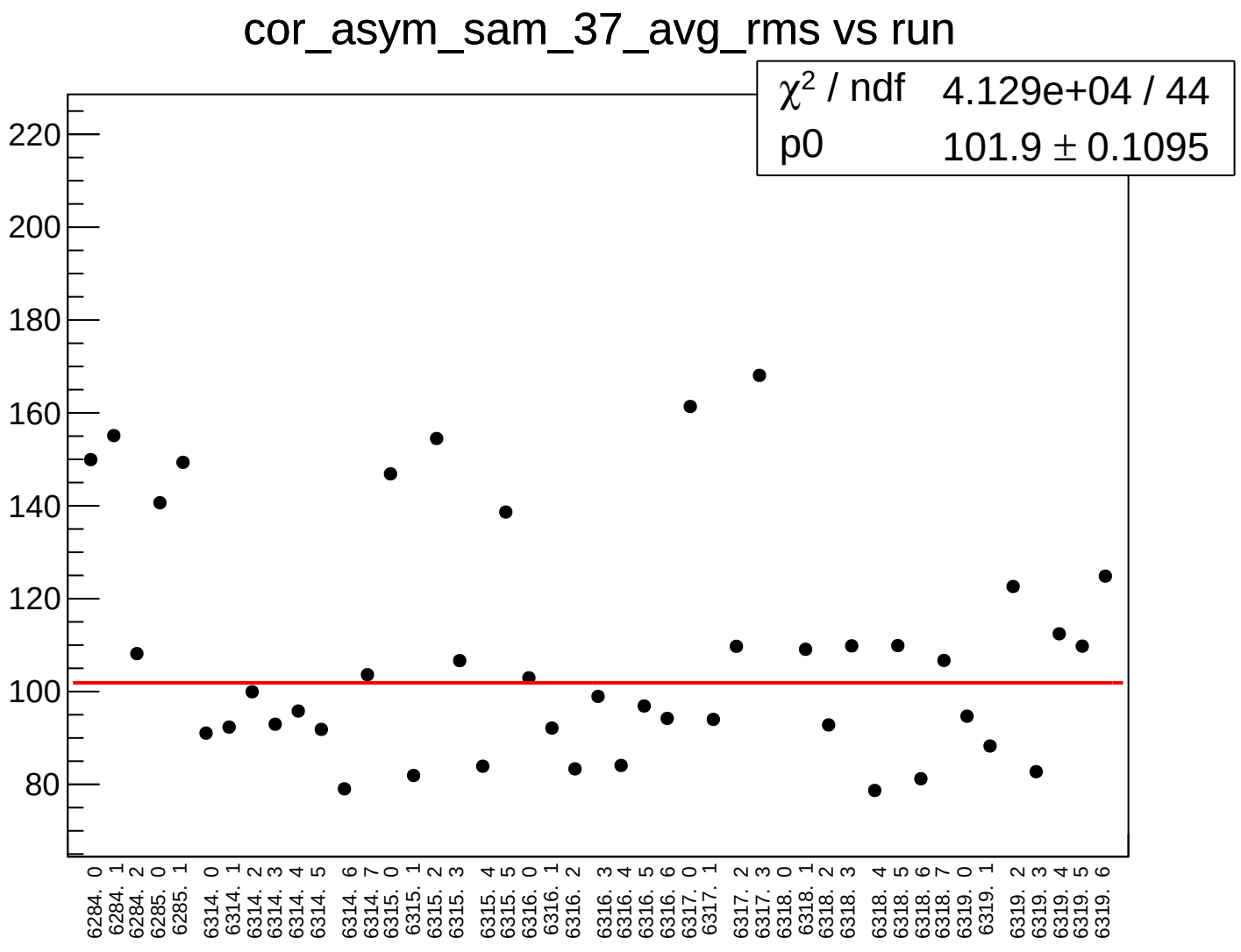
6319. 6


asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 42.01 / 44
p0 −238.8 ± 2305
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00941
Std Dev 0.9662
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3513 / 44
p0 1550 ± 1.63
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.53 / 44
p0 −419.6 ± 154.8
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 67.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007785
Std Dev 0.9947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.129e+04 / 44
p0 101.9 ± 0.1095
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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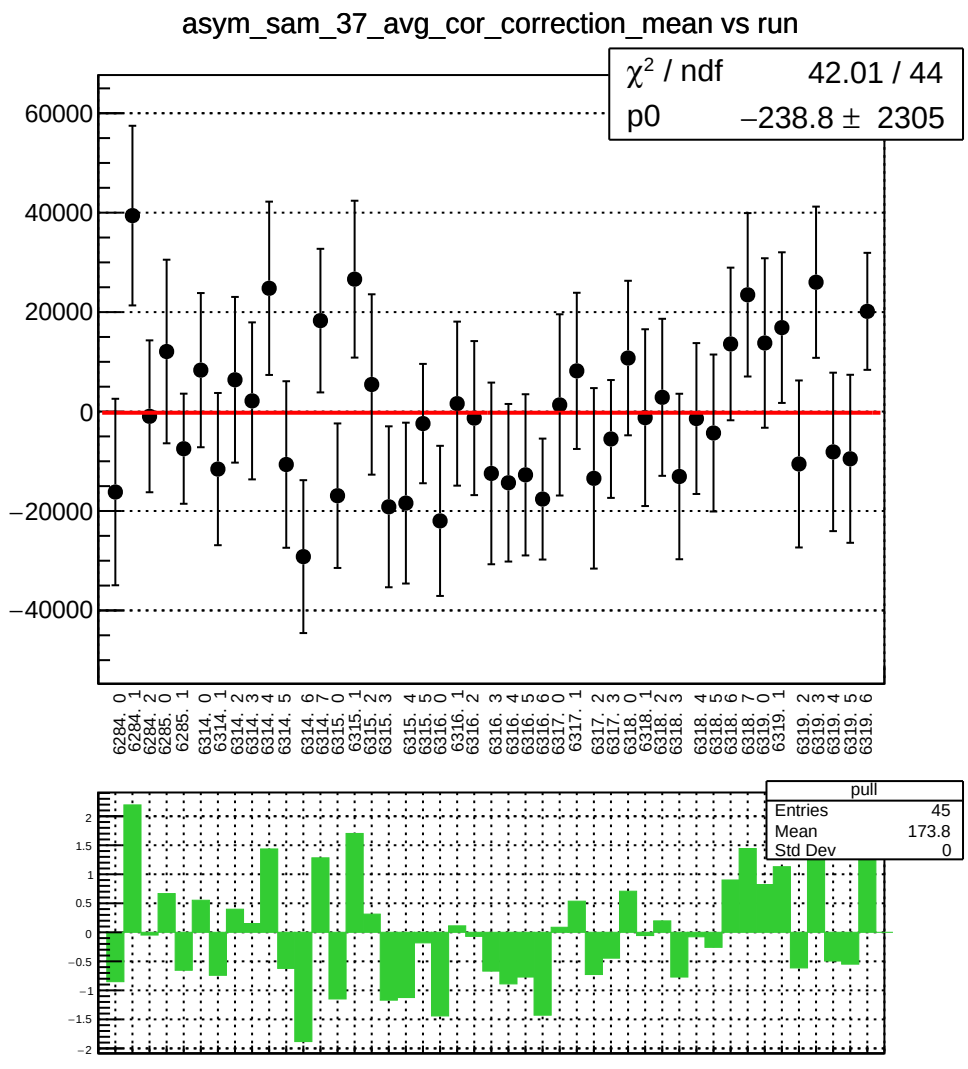
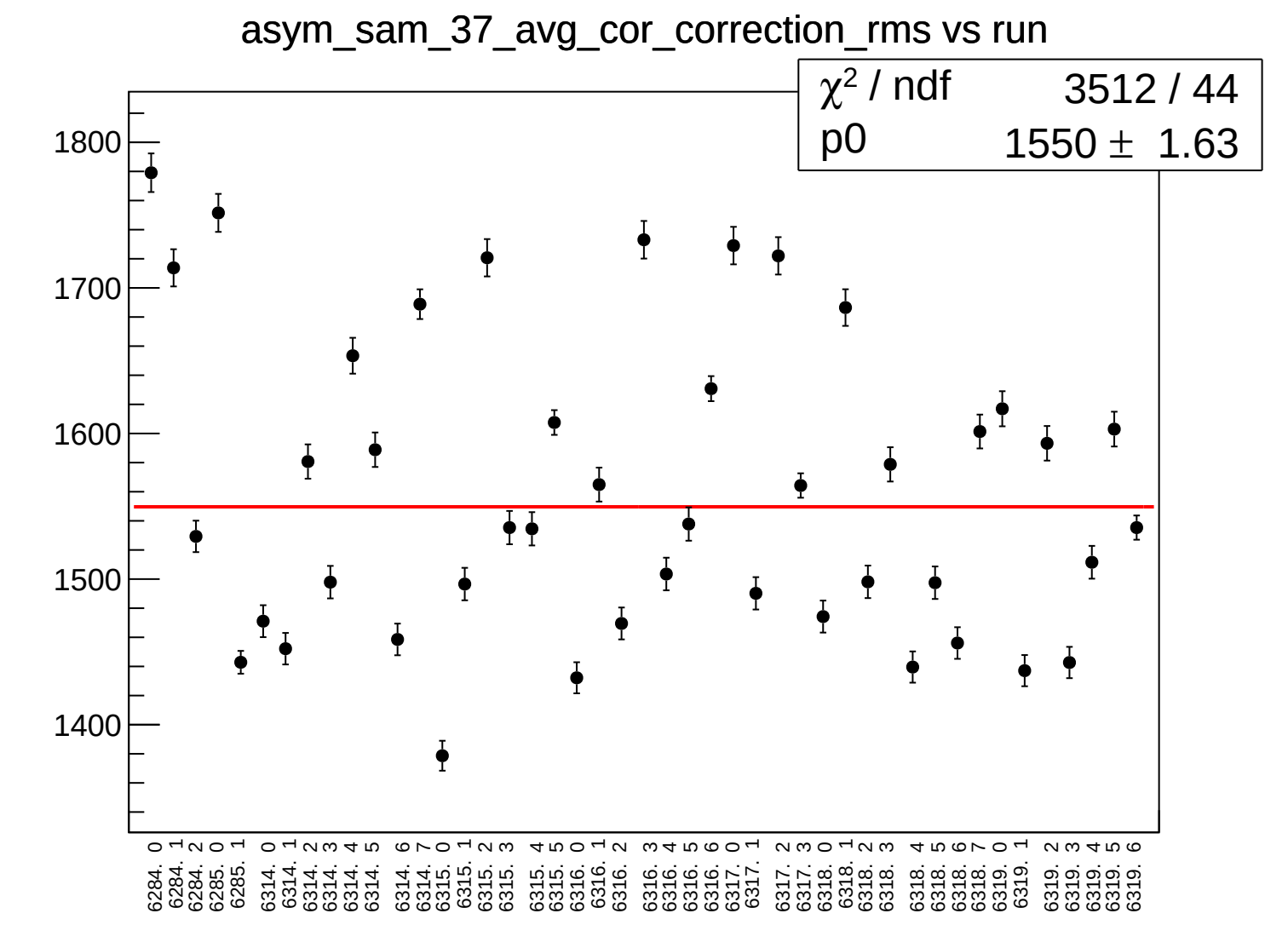
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 42.01 / 44
p0 −238.8 ± 2305
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.009411
Std Dev 0.9662
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3512 / 44
p0 1550 ± 1.63
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 2
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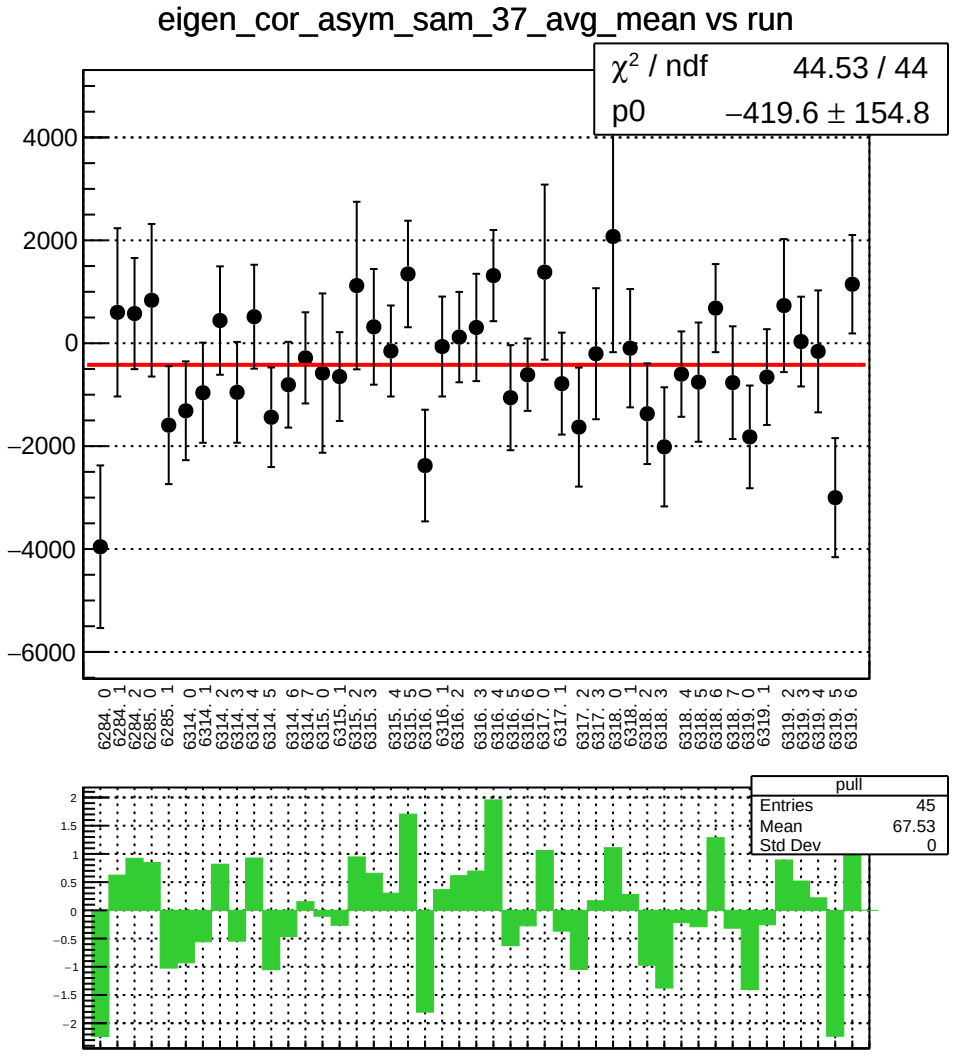
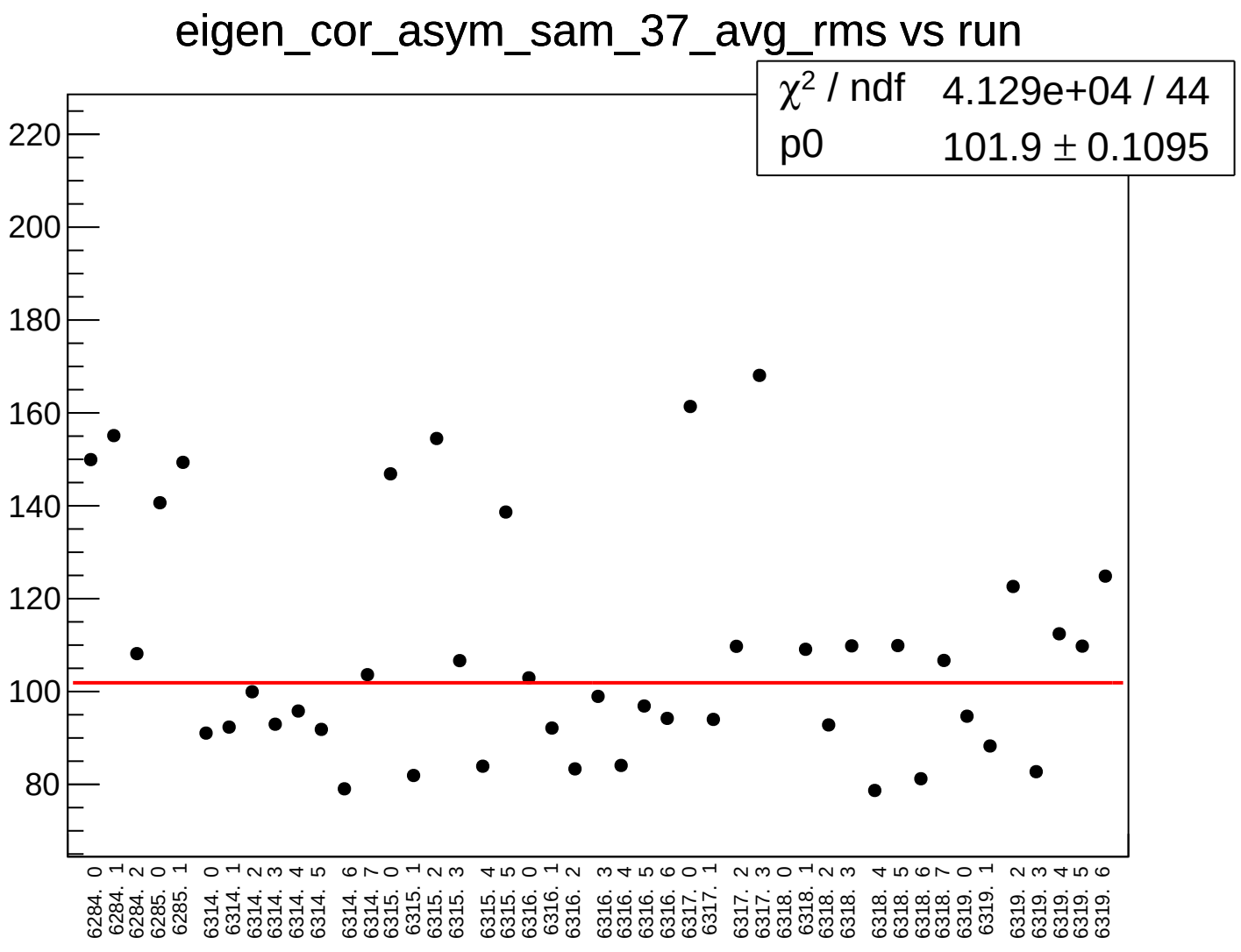
6319. 5
6319. 6


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.53 / 44
p0 −419.6 ± 154.8
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 67.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007785
Std Dev 0.9947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.129e+04 / 44
p0 101.9 ± 0.1095
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 2
6315. 3
6315. 4
6315. 5
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6316. 2
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6316. 4
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6319. 0
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6319. 2
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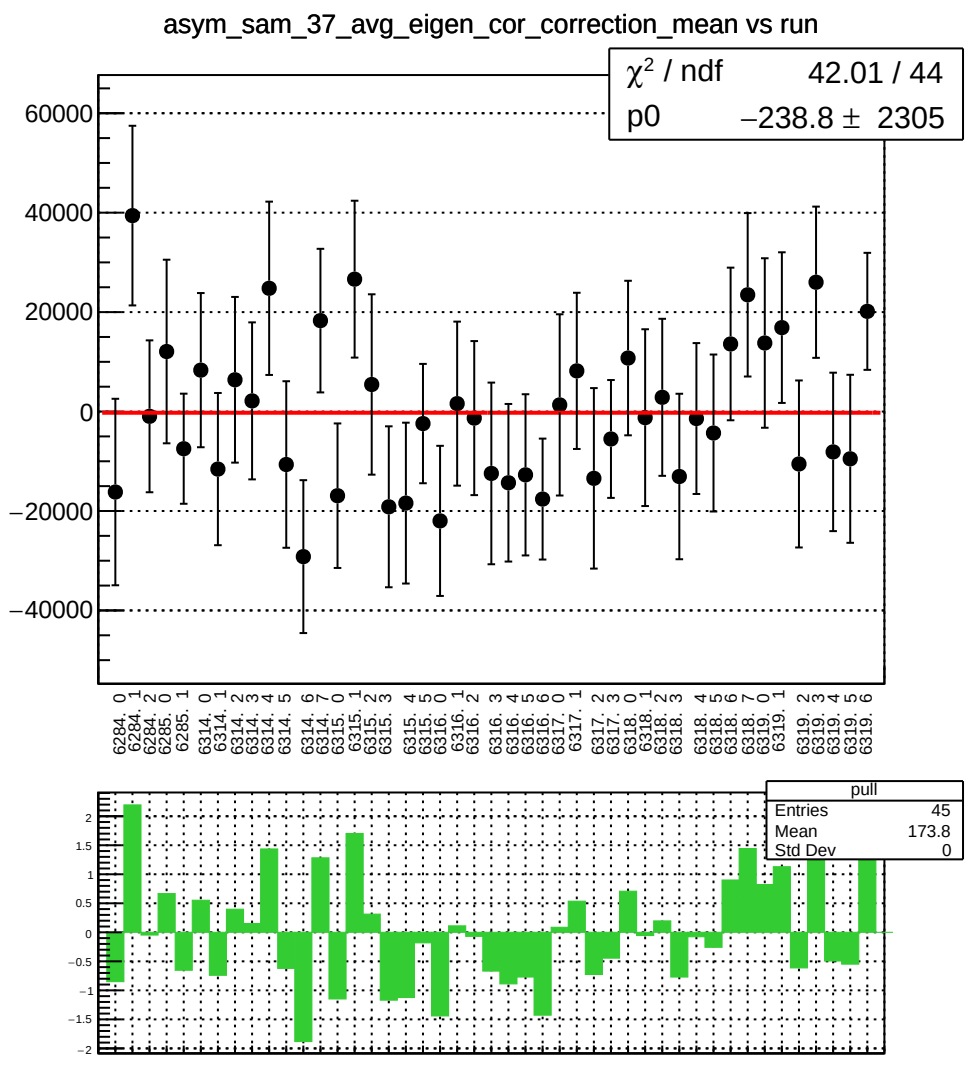
6319. 6


asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 42.01 / 44
p0 −238.8 ± 2305
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 4
6314. 5
6314. 6
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6315. 2
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6315. 4
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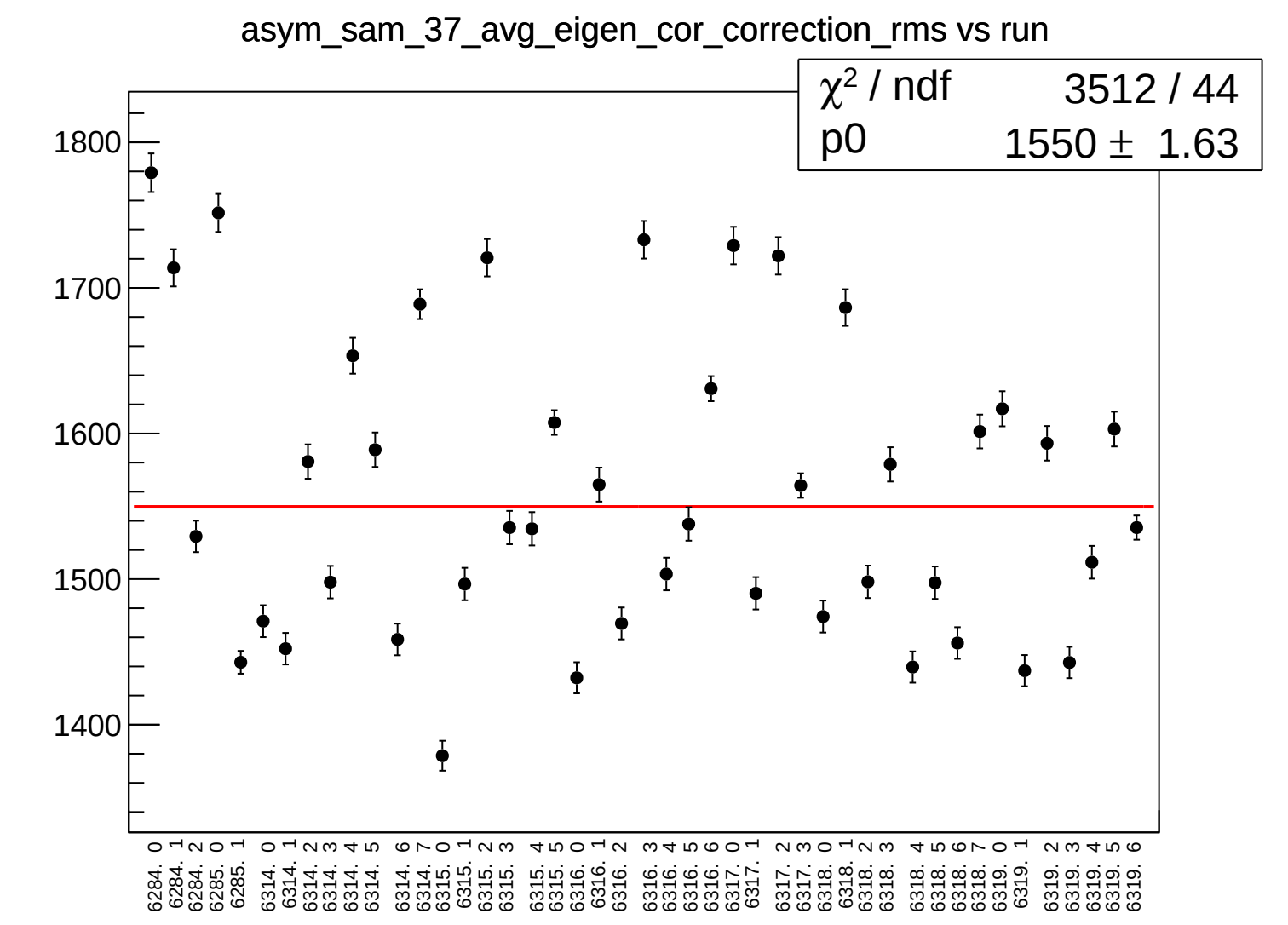
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.009411
Std Dev 0.9662
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3512 / 44
p0 1550 ± 1.63
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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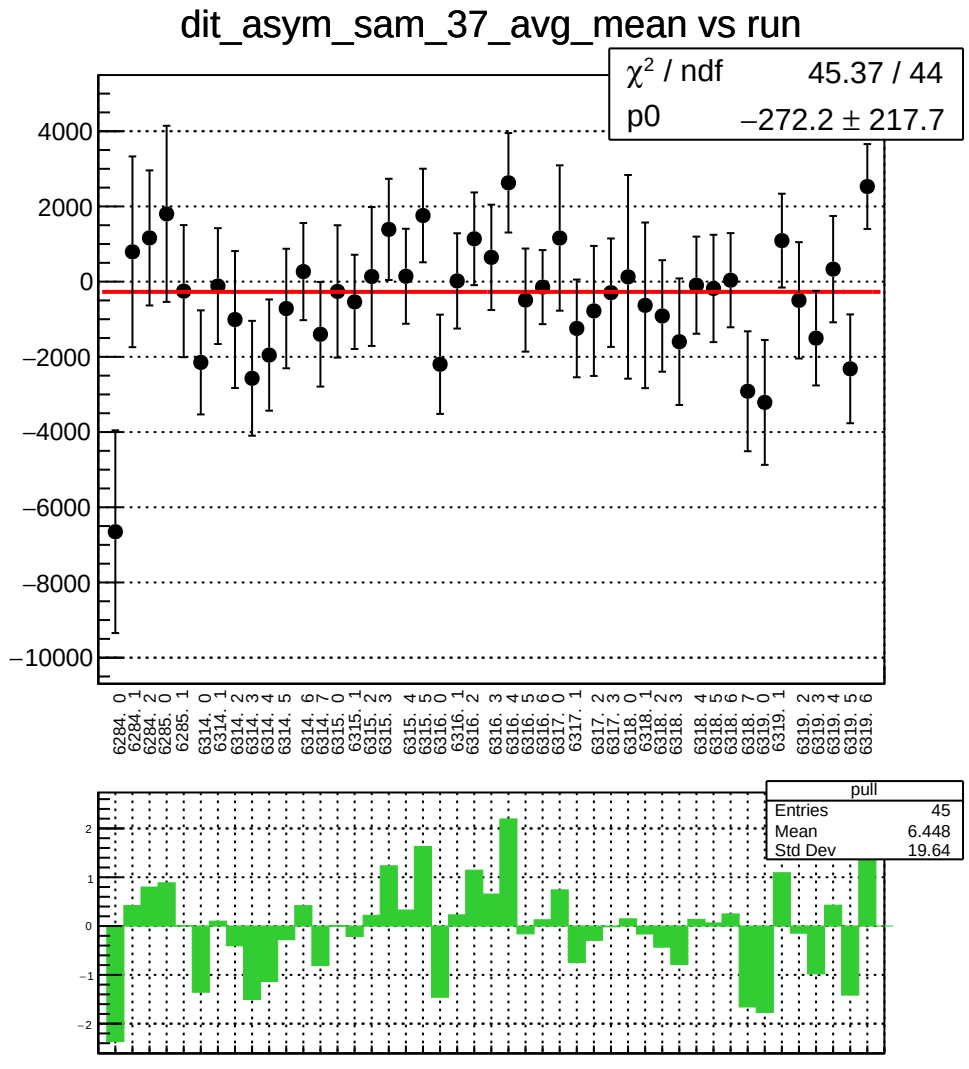
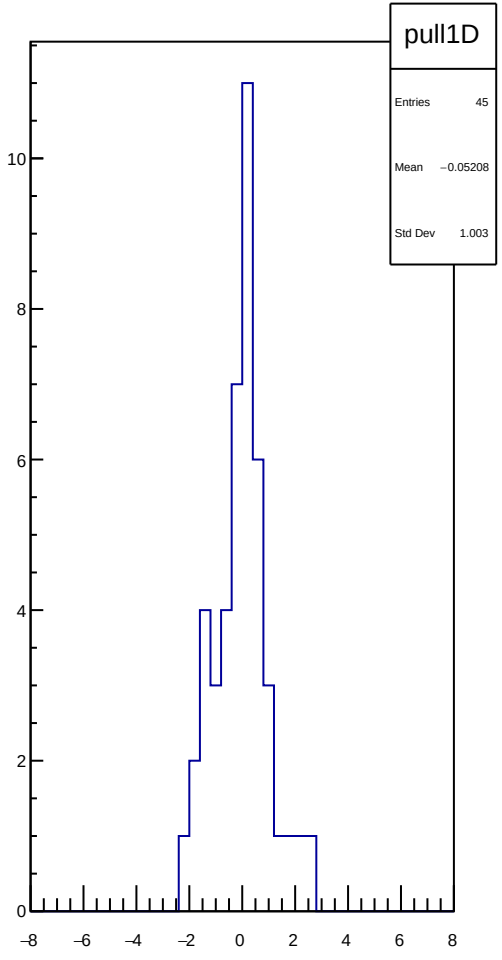
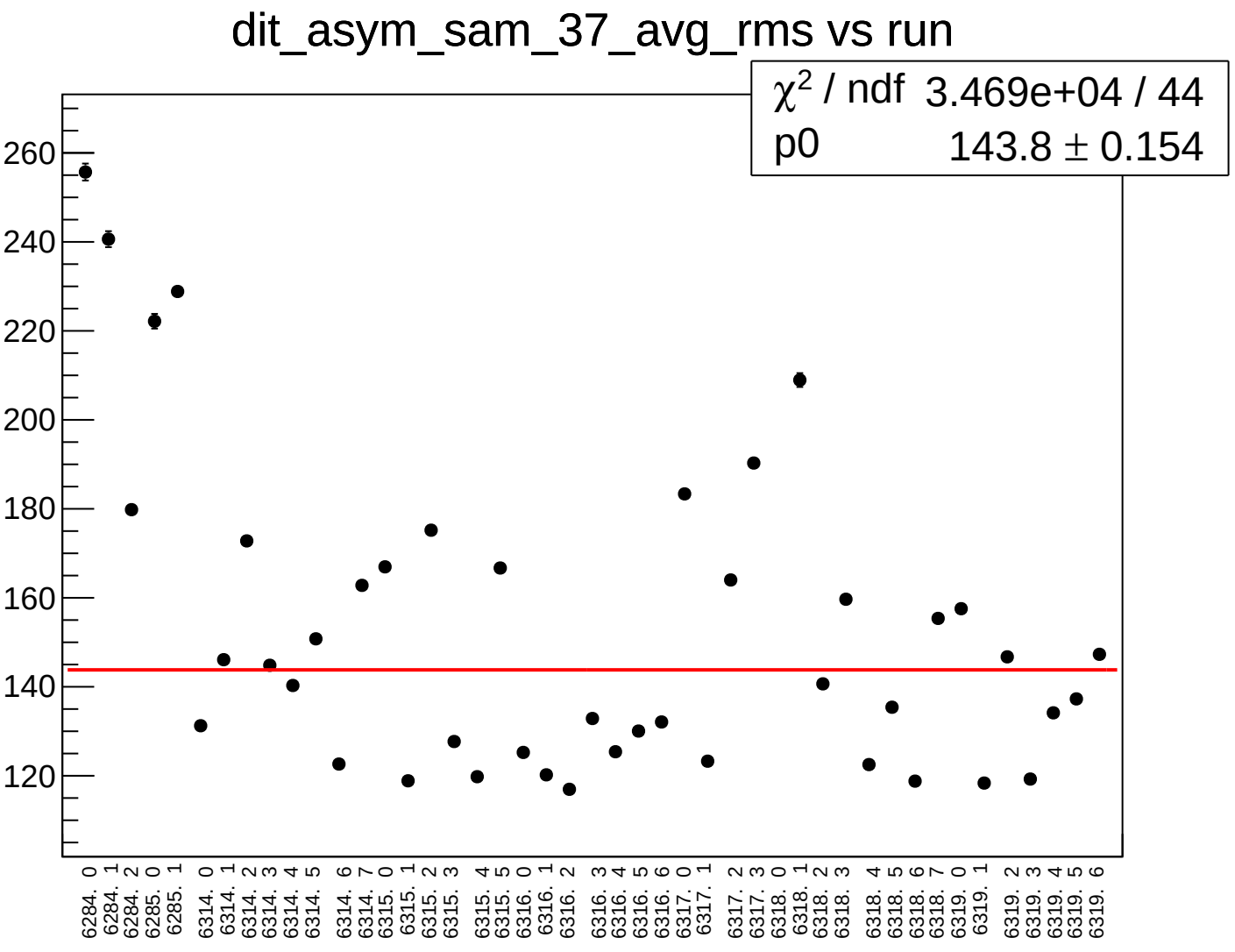
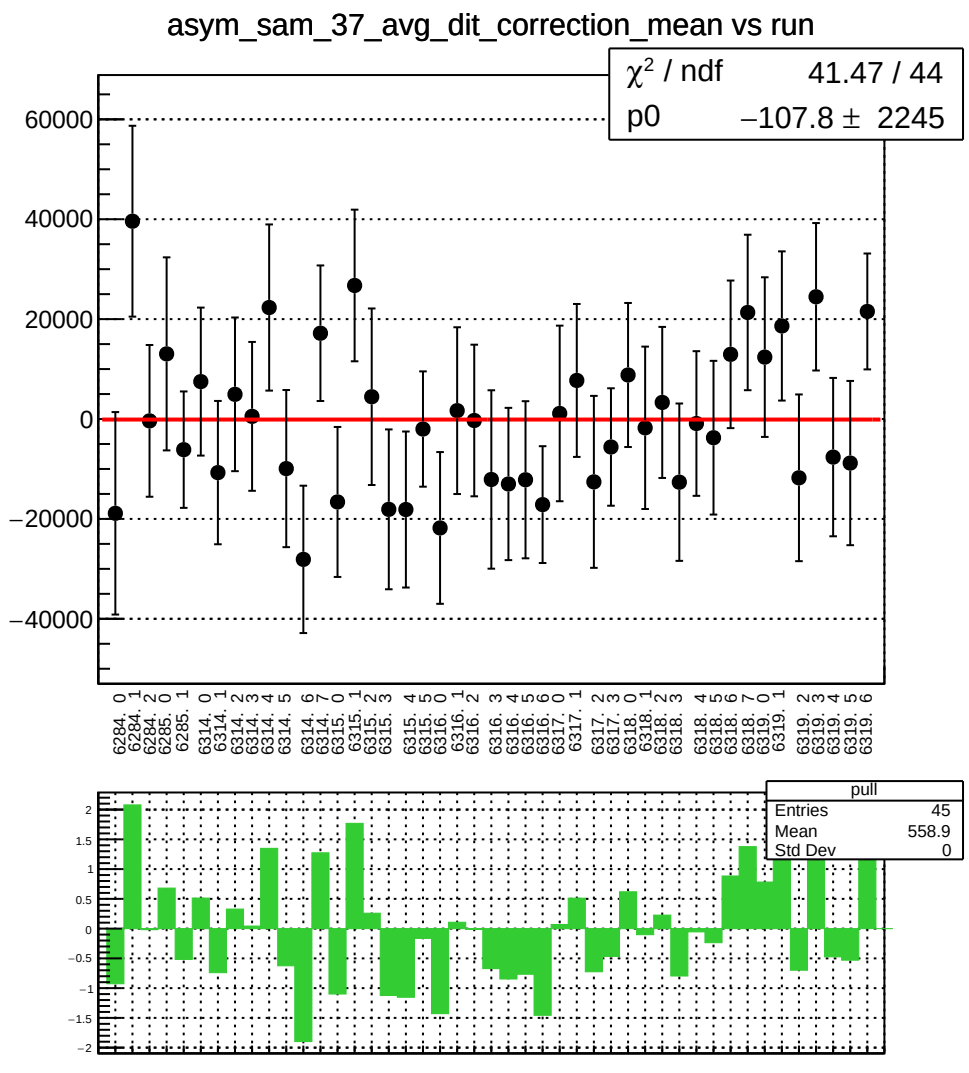
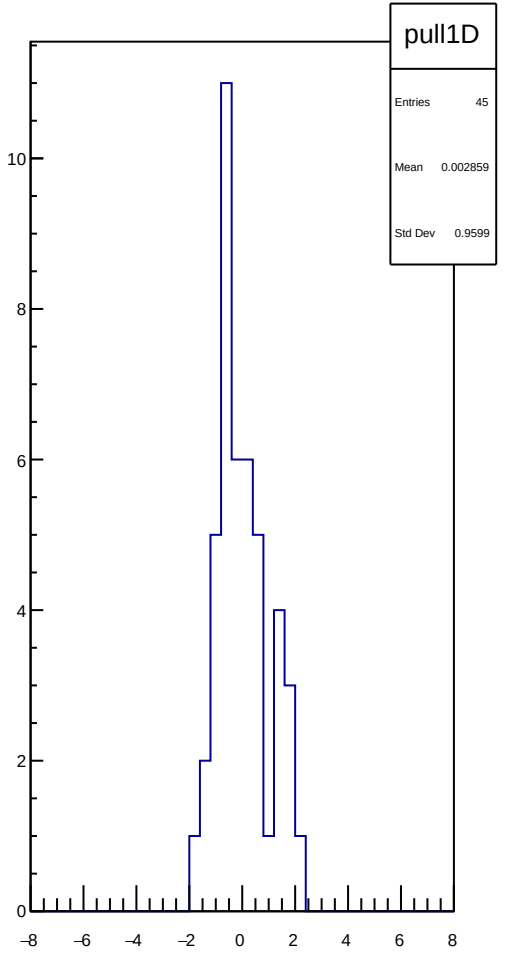
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

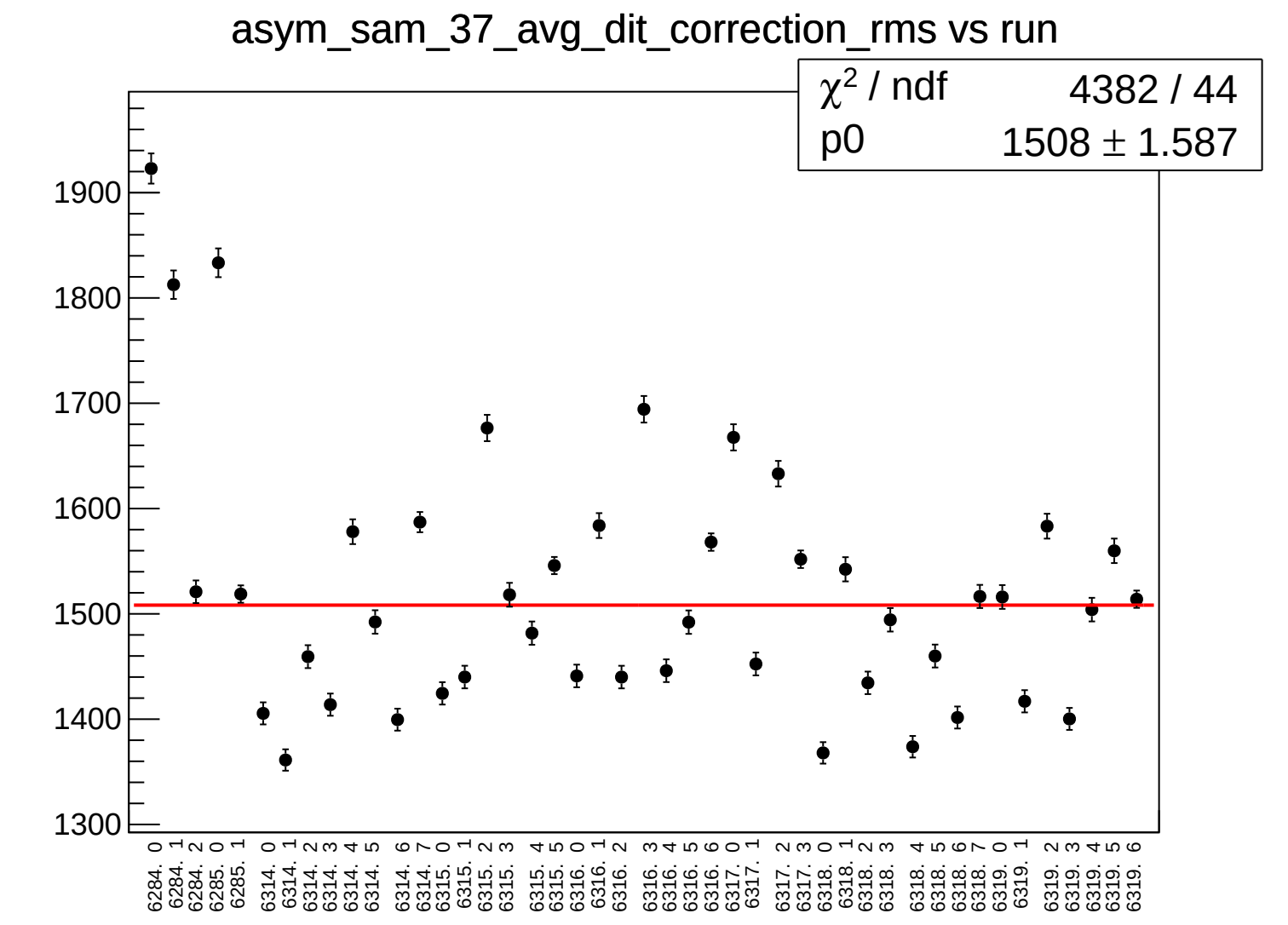

dit_asym_sam_37_avg_mean vs run
χ² / ndf 45.37 / 44
p0 −272.2 ± 217.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.448
Std Dev 19.64
2
1
0
−1
−2

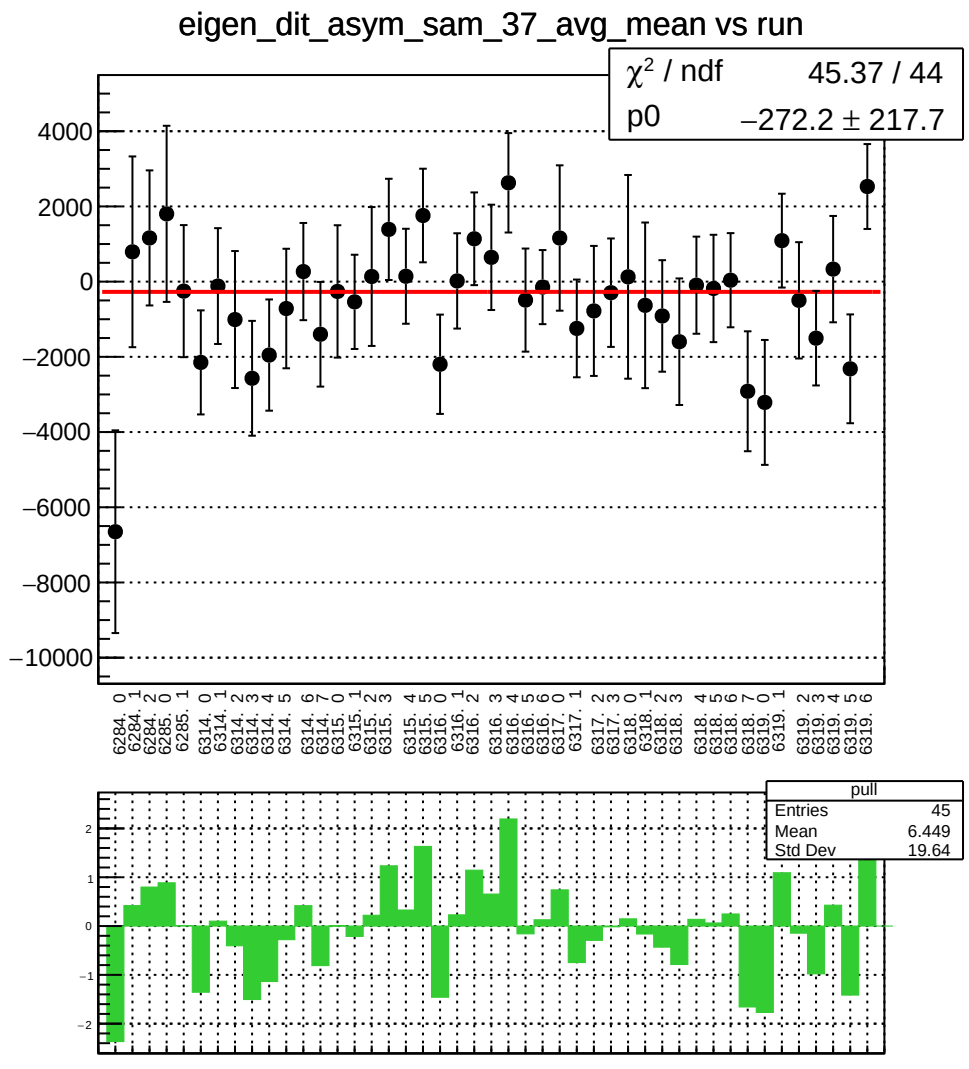

pull1D
Entries 45
Mean −0.05208
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

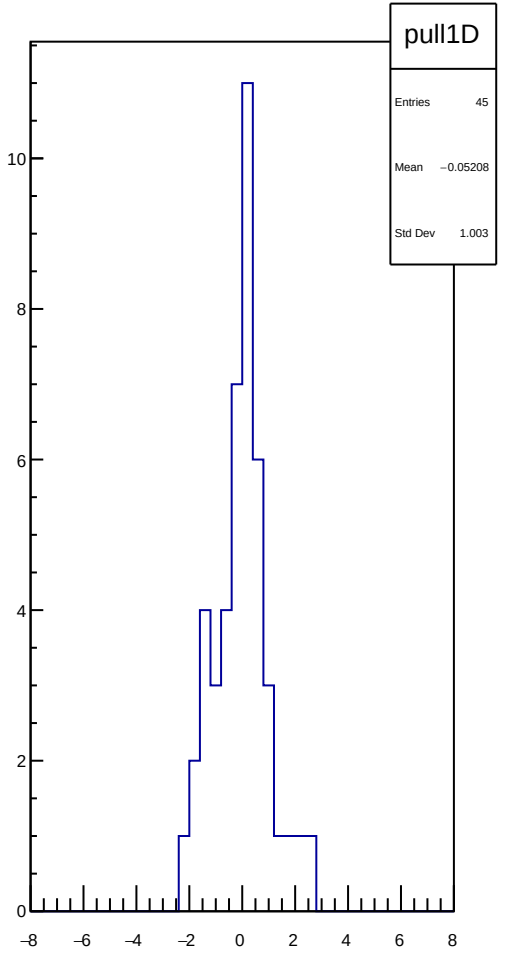

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.469e+04 / 44
p0 143.8 ± 0.154
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

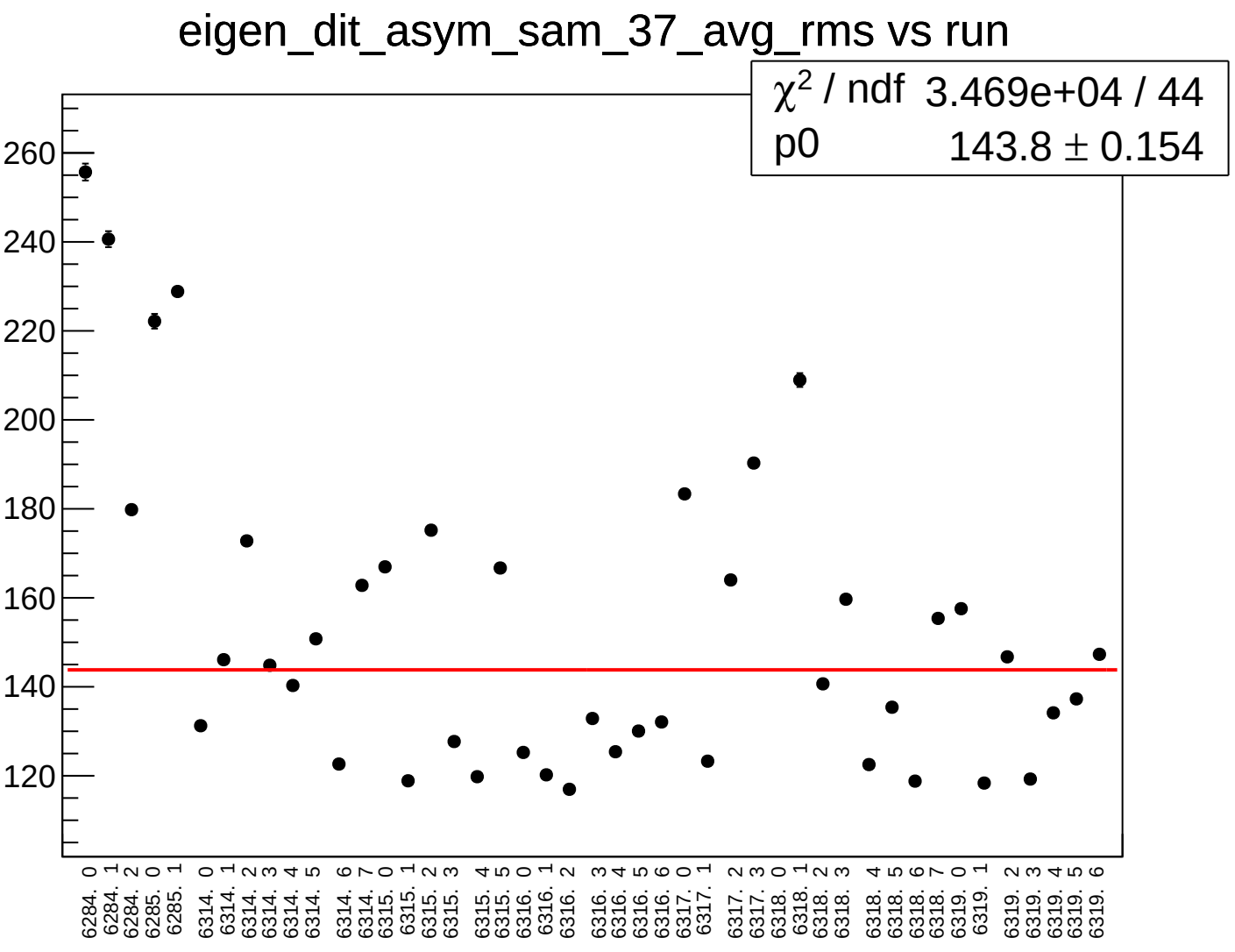

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 41.47 / 44
p0 −107.8 ± 2245
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 558.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

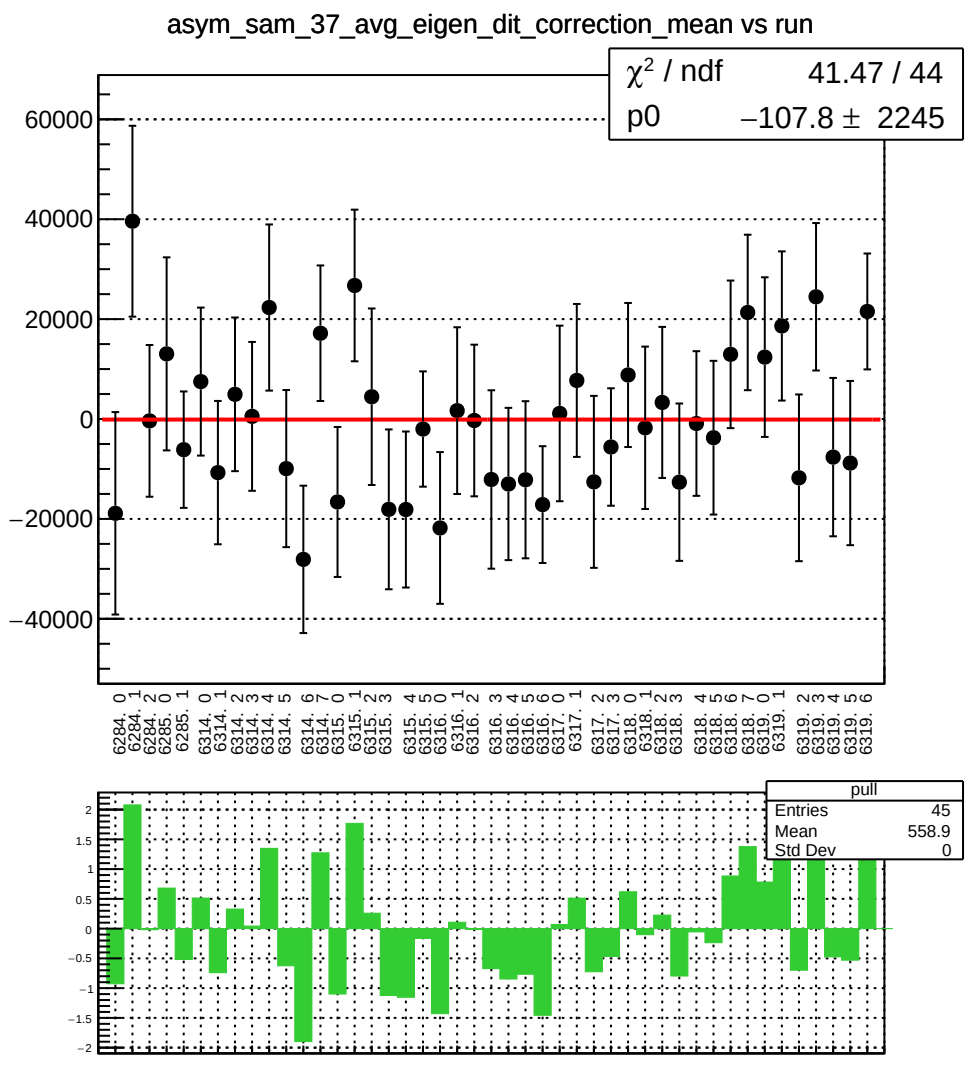

pull1D
Entries 45
Mean 0.002859
Std Dev 0.9599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

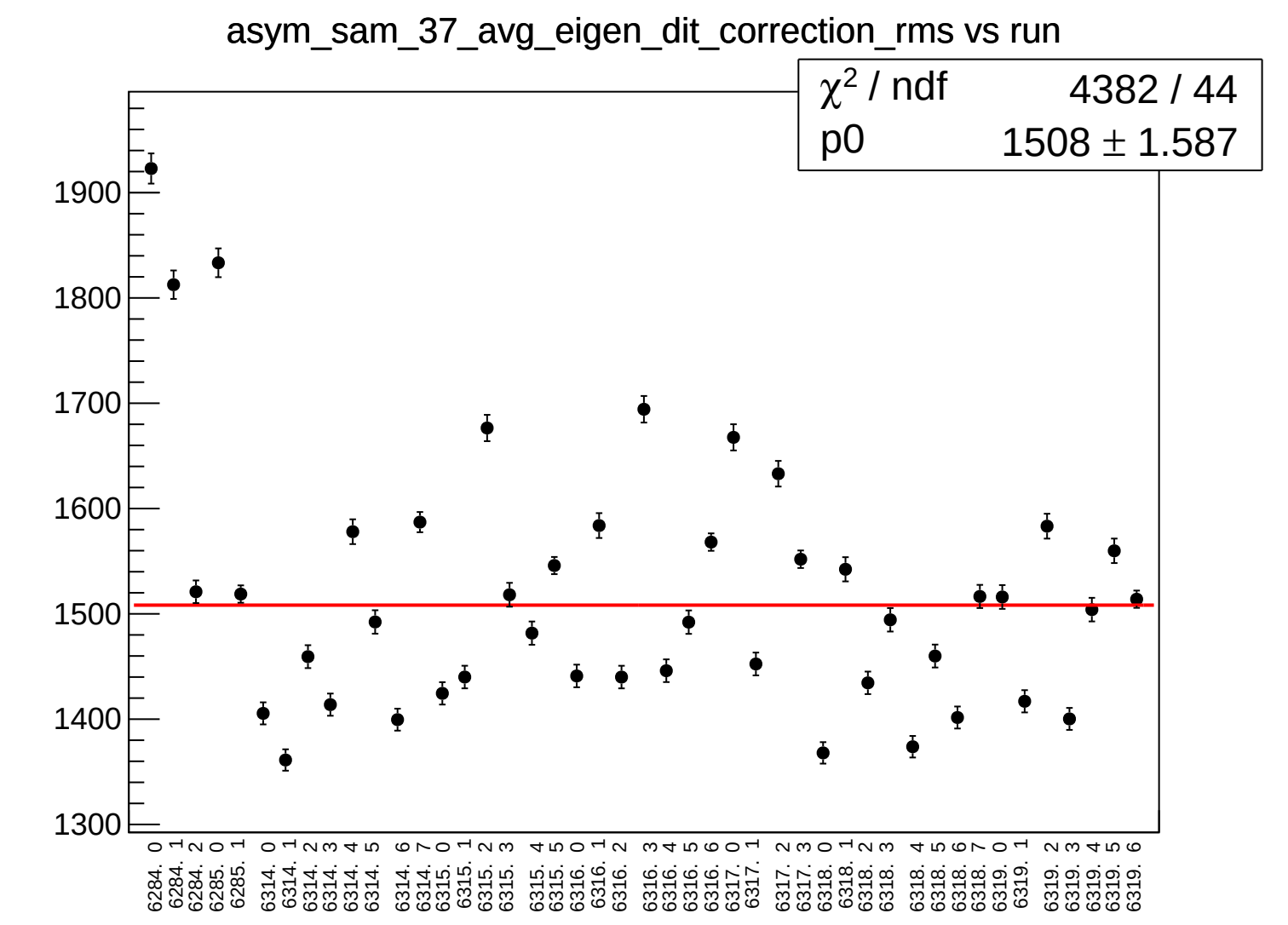

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4382 / 44
p0 1508 ± 1.587
1900
1800
1700
1600
1500
1400
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

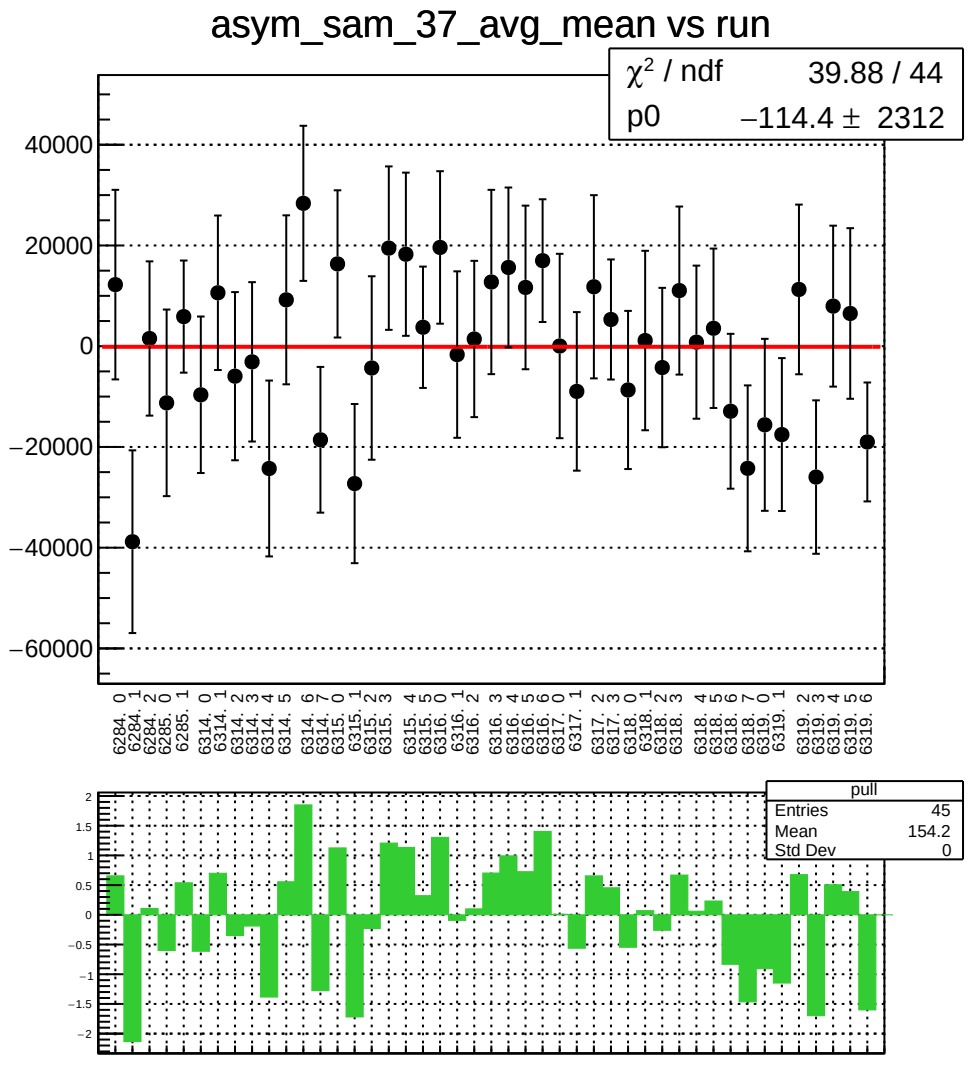

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 45.37 / 44
p0 −272.2 ± 217.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.449
Std Dev 19.64
2
1
0
−1
−2

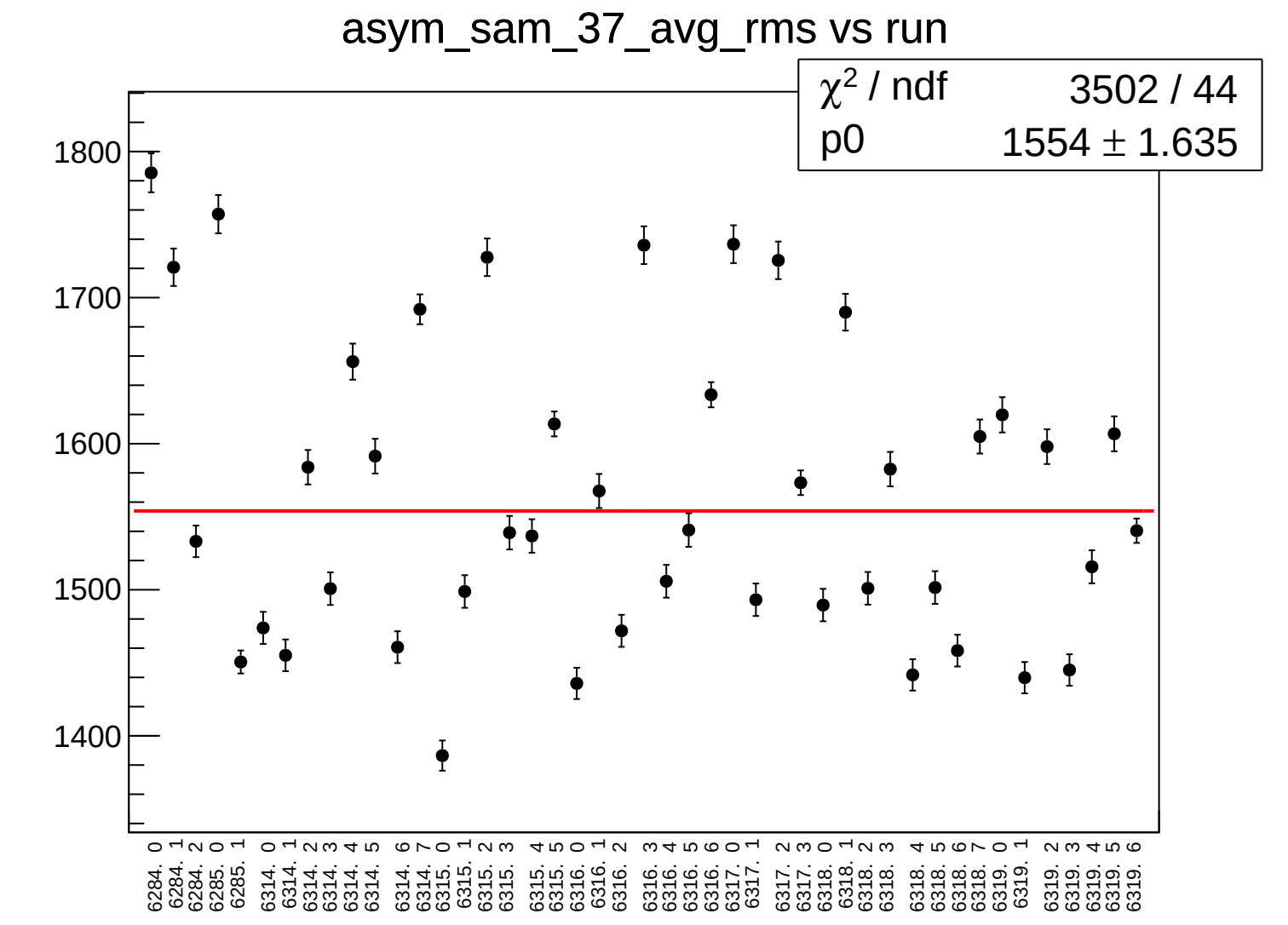

pull1D
Entries 45
Mean −0.05208
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

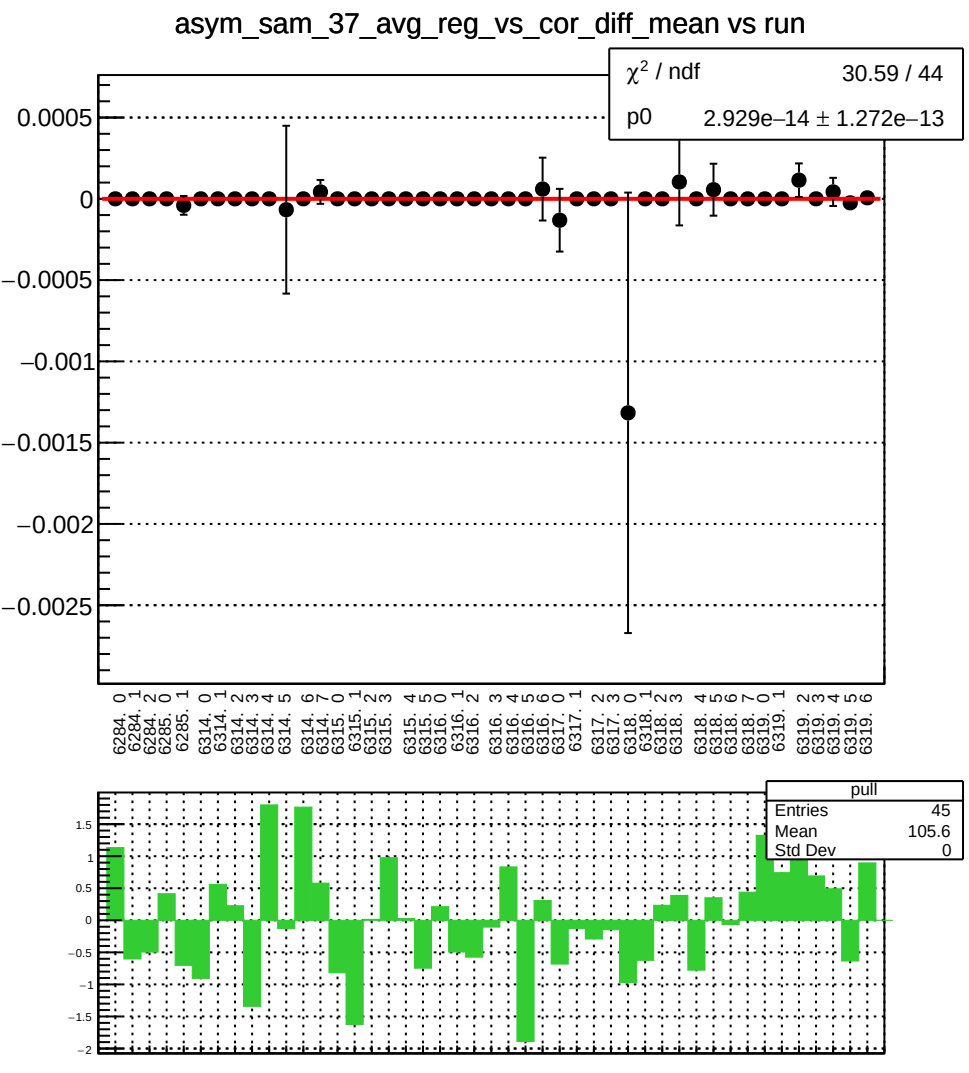

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.469e+04 / 44
p0 143.8 ± 0.154
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

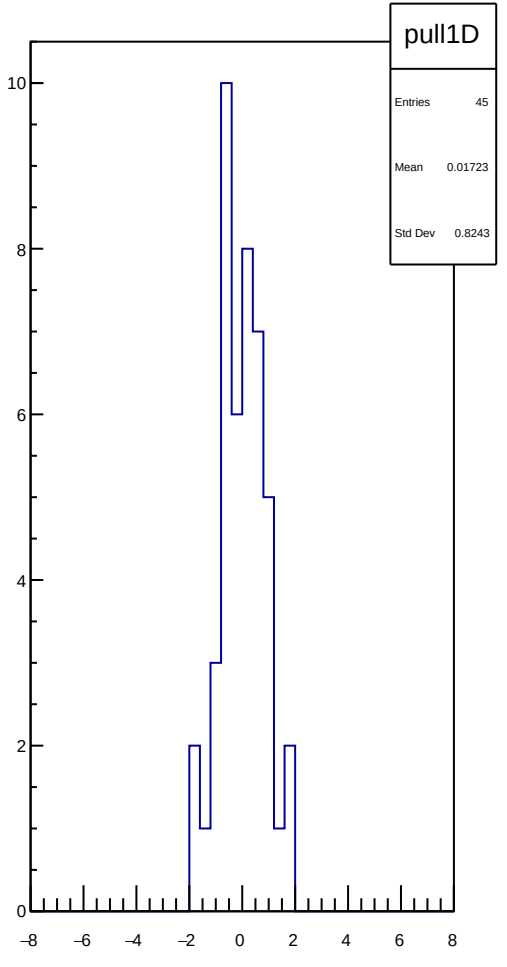

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.47 / 44
p0 −107.8 ± 2245
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 558.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002859
Std Dev 0.9599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

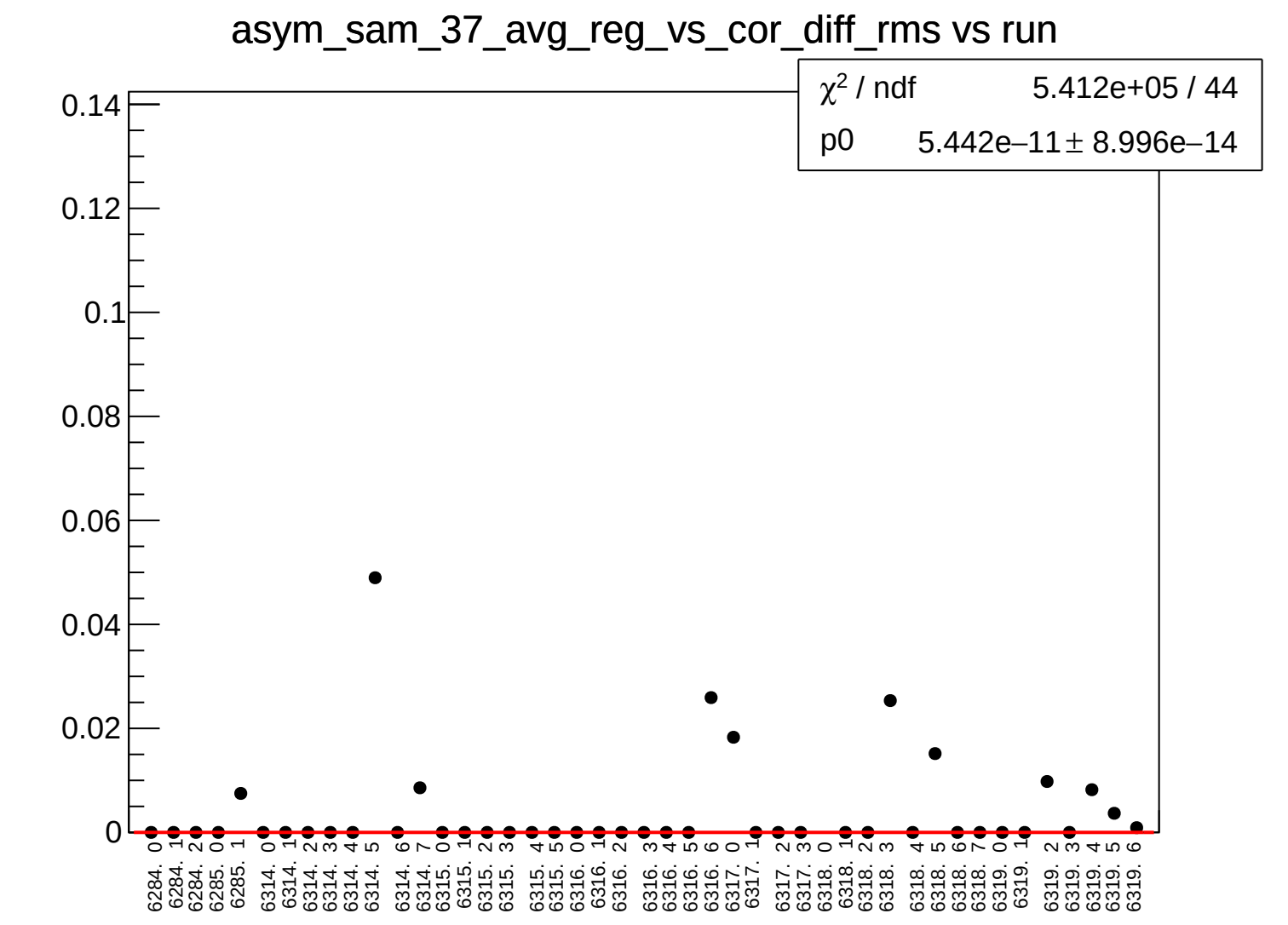

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4382 / 44
p0 1508 ± 1.587
1900
1800
1700
1600
1500
1400
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

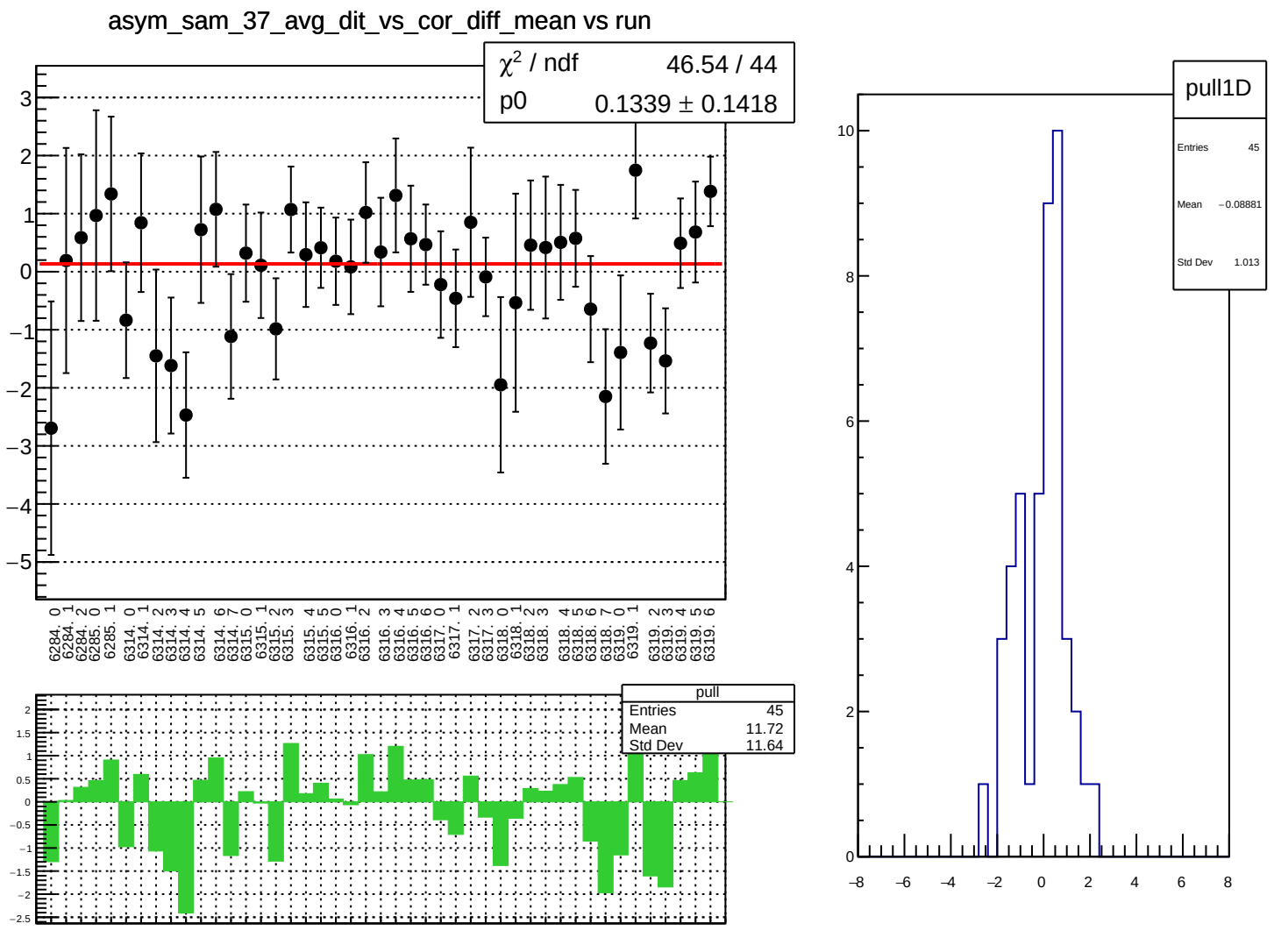

asym_sam_37_avg_mean vs run
χ² / ndf 39.88 / 44
p0 −114.4 ± 2312
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 154.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01027
Std Dev 0.9413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

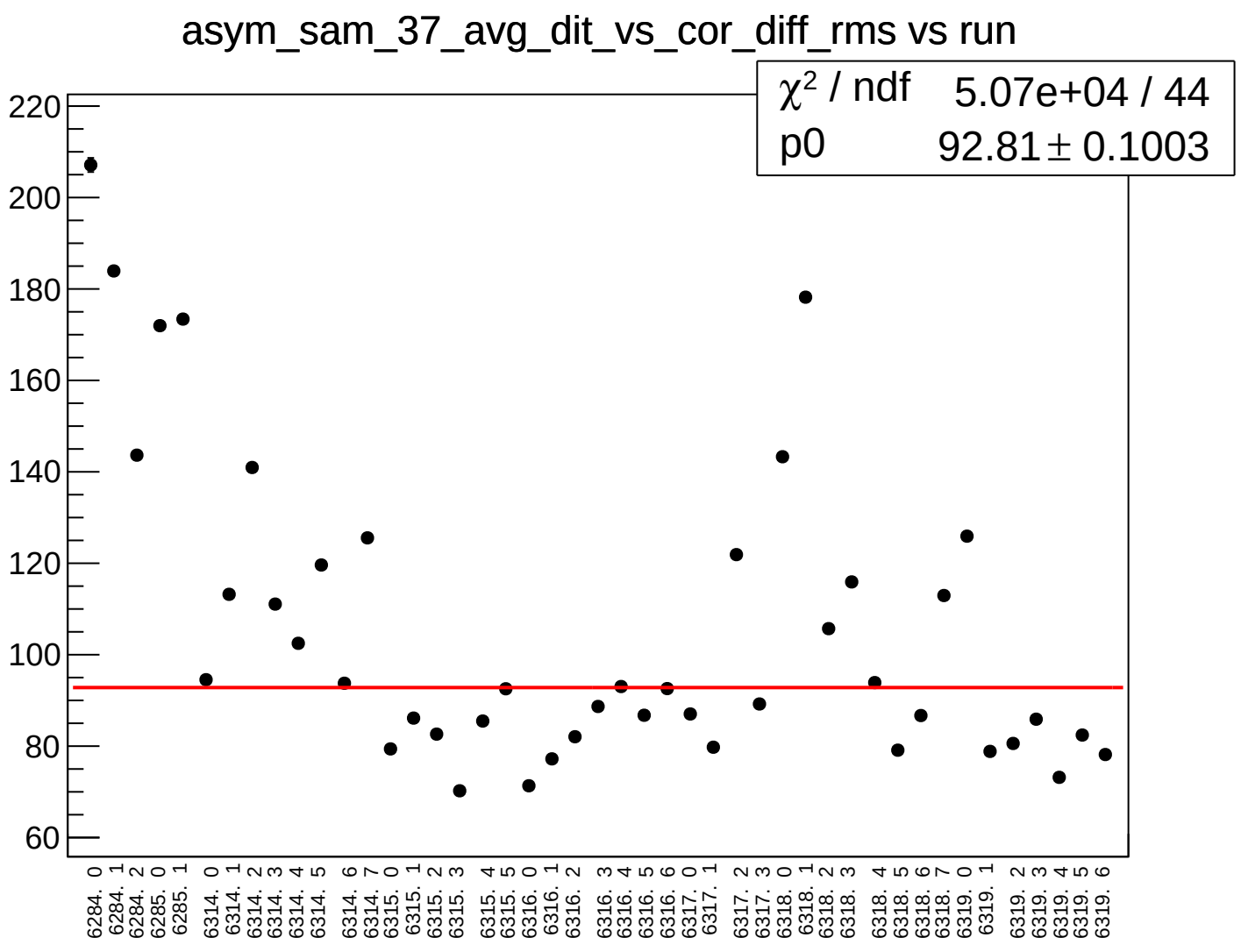

asym_sam_37_avg_rms vs run
χ^2 / ndf 3502 / 44
p0 1554 ± 1.635
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

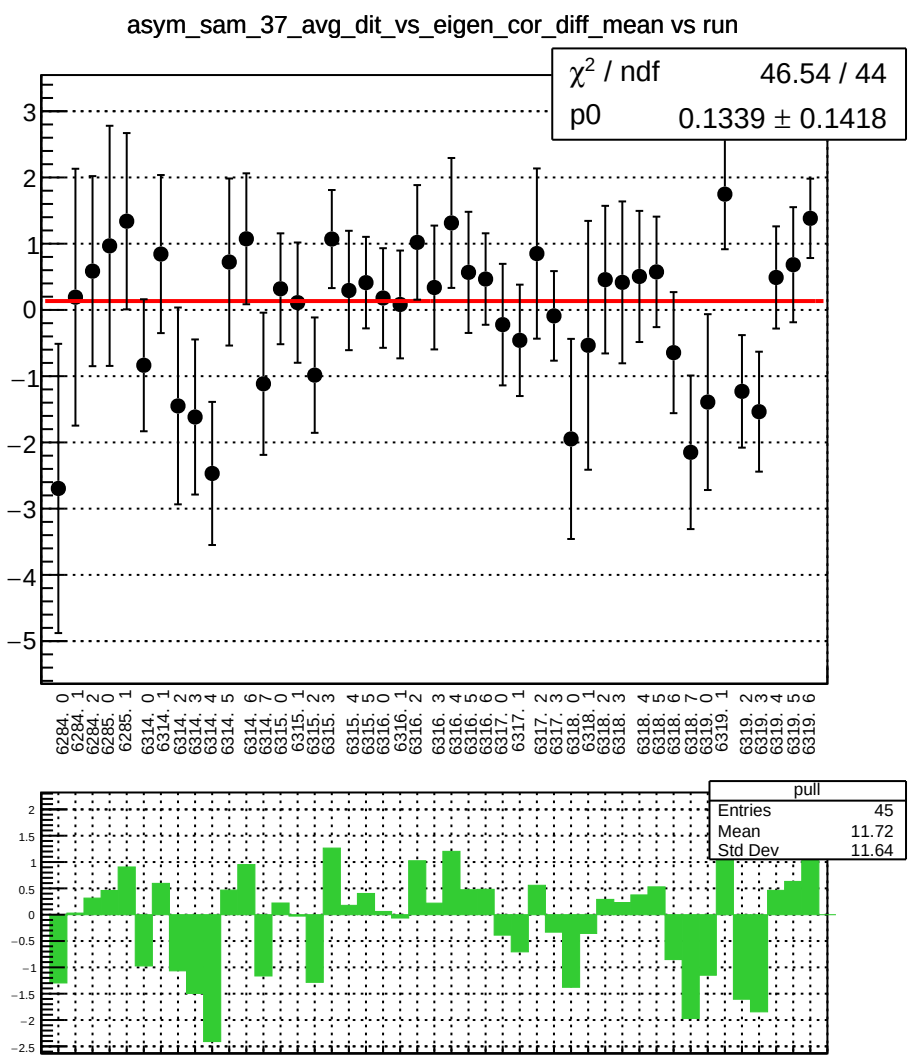

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.59 / 44
p0 2.929e−14 ± 1.272e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 105.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

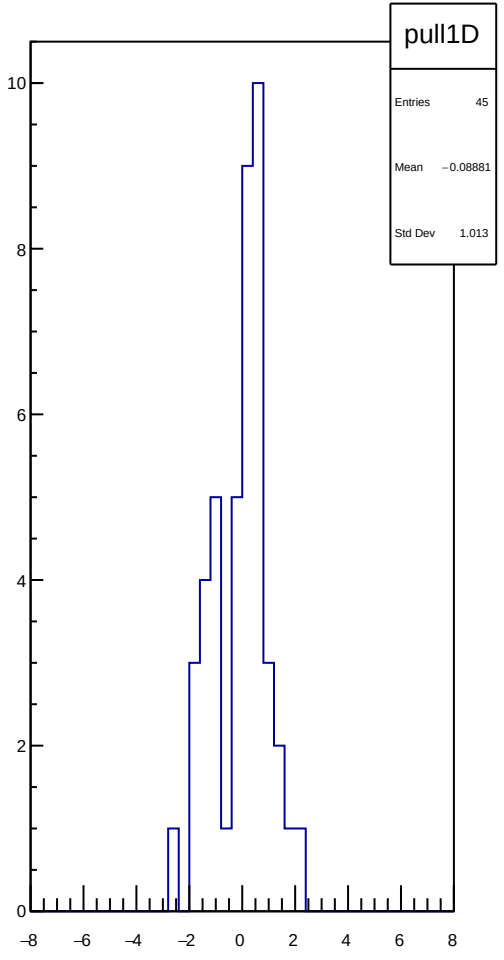

pull1D
Entries 45
Mean 0.01723
Std Dev 0.8243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

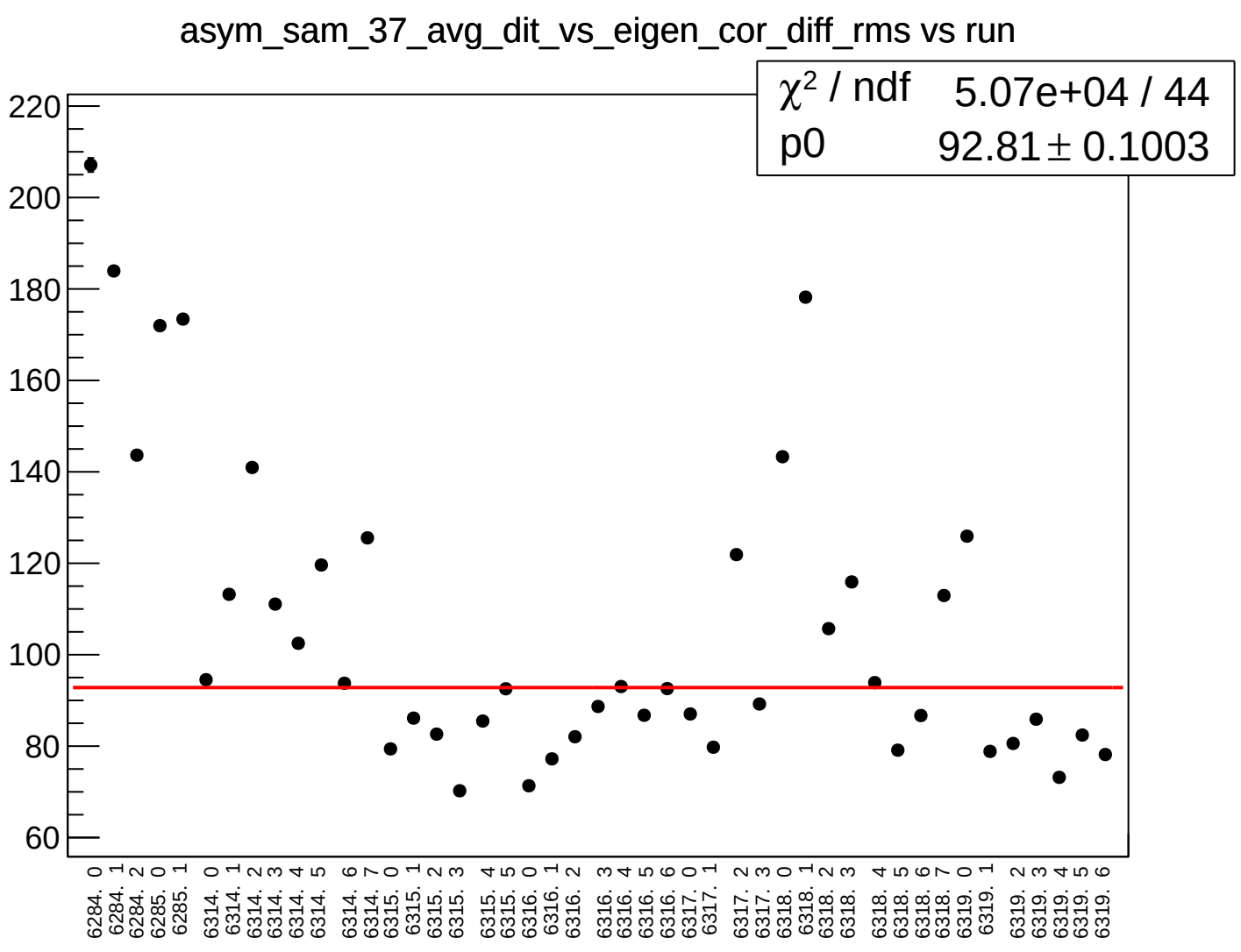

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.412e+05 / 44
p0 5.442e−11 ± 8.996e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

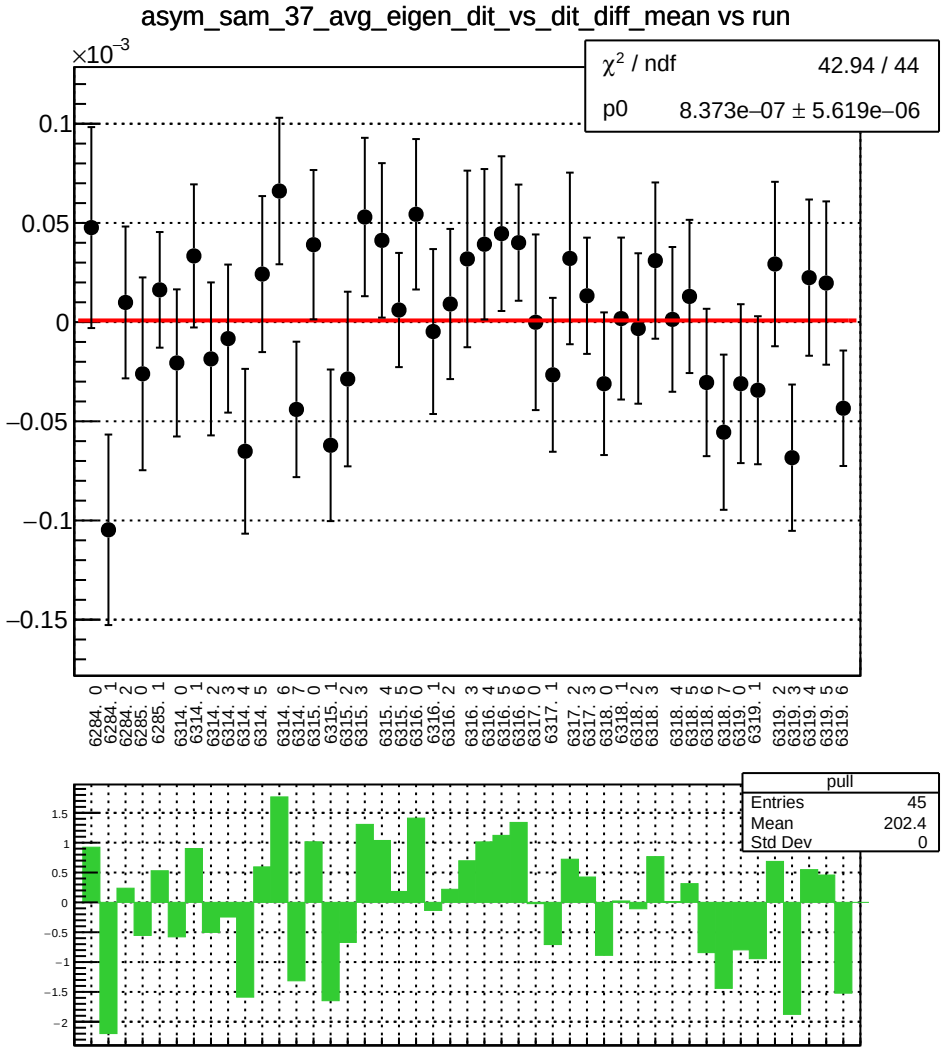

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.54 / 44
p0 0.1339 ± 0.1418
pull
Entries 45
Mean 11.72
Std Dev 11.64
pull1D
Entries 45
Mean −0.08881
Std Dev 1.013

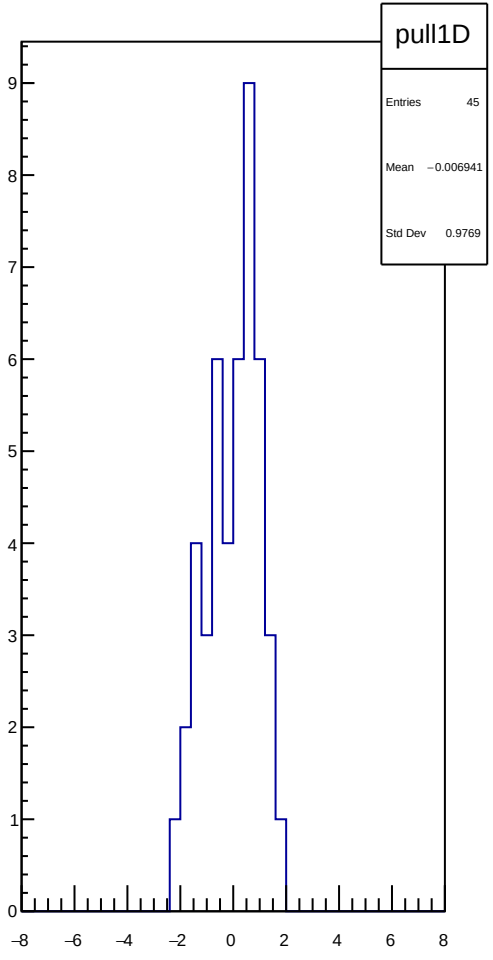

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.07e+04 / 44
p0 92.81 ± 0.1003
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

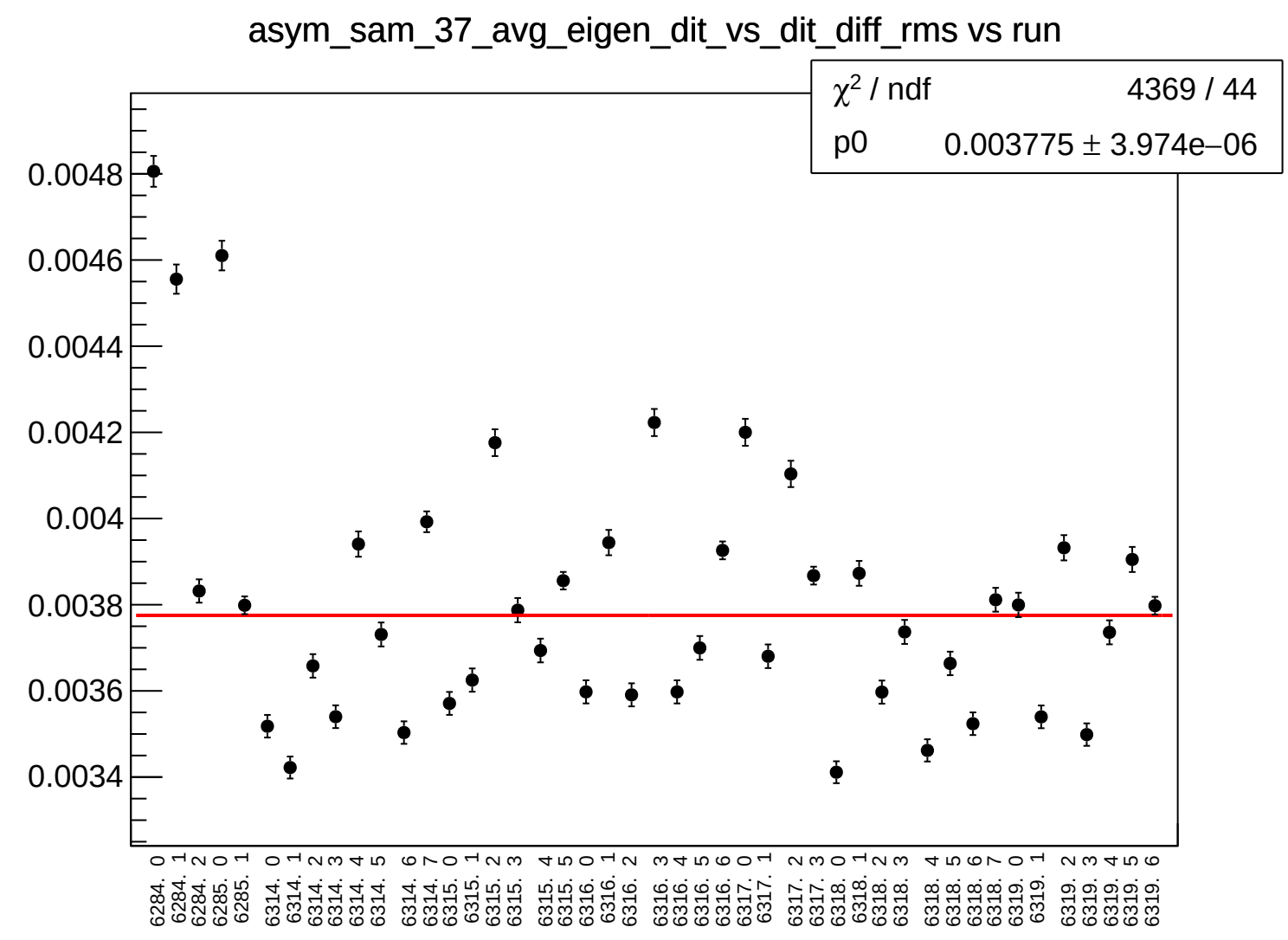

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.54 / 44
p0 0.1339 ± 0.1418
pull
Entries 45
Mean 11.72
Std Dev 11.64

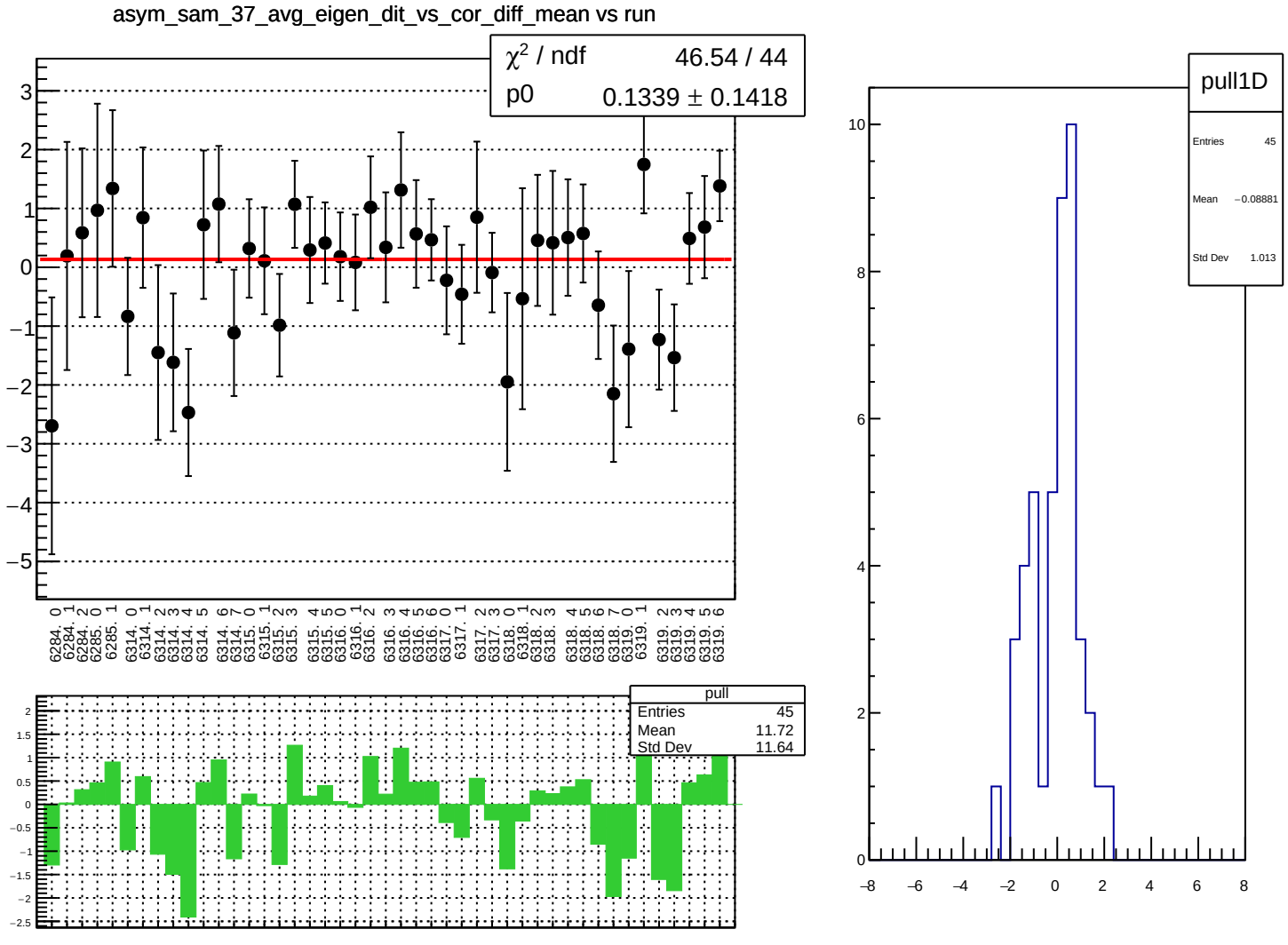

pull1D
Entries 45
Mean −0.08881
Std Dev 1.013

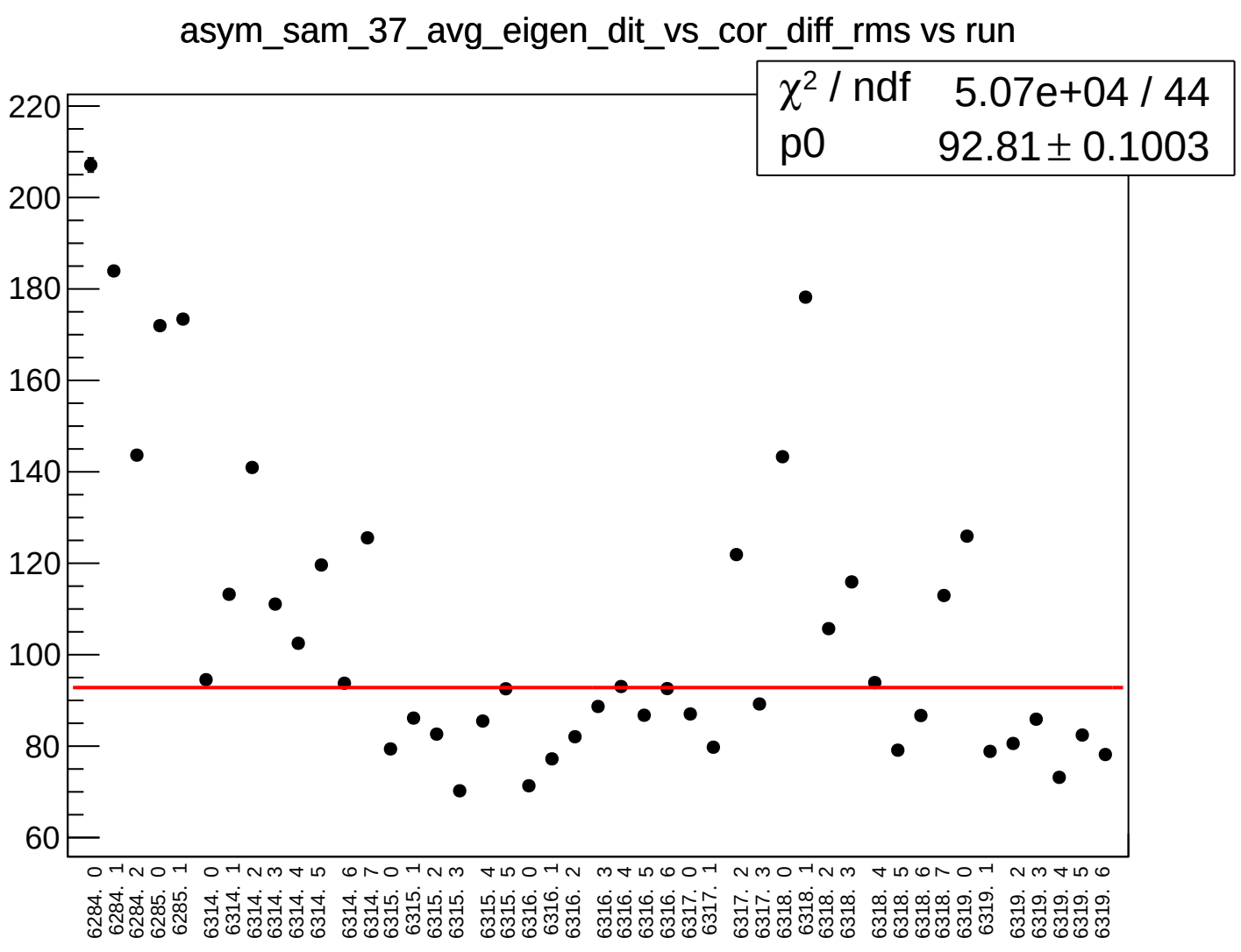

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.07e+04 / 44
p0 92.81 ± 0.1003
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.94 / 44
p0 8.373e−07 ± 5.619e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 202.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.006941
Std Dev 0.9769
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4369 / 44
p0 0.003775 ± 3.974e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.54 / 44
p0 0.1339 ± 0.1418
pull
Entries 45
Mean 11.72
Std Dev 11.64
pull1D
Entries 45
Mean −0.08881
Std Dev 1.013


asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.07e+04 / 44
p0 92.81 ± 0.1003
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
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6318. 2
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6318. 7
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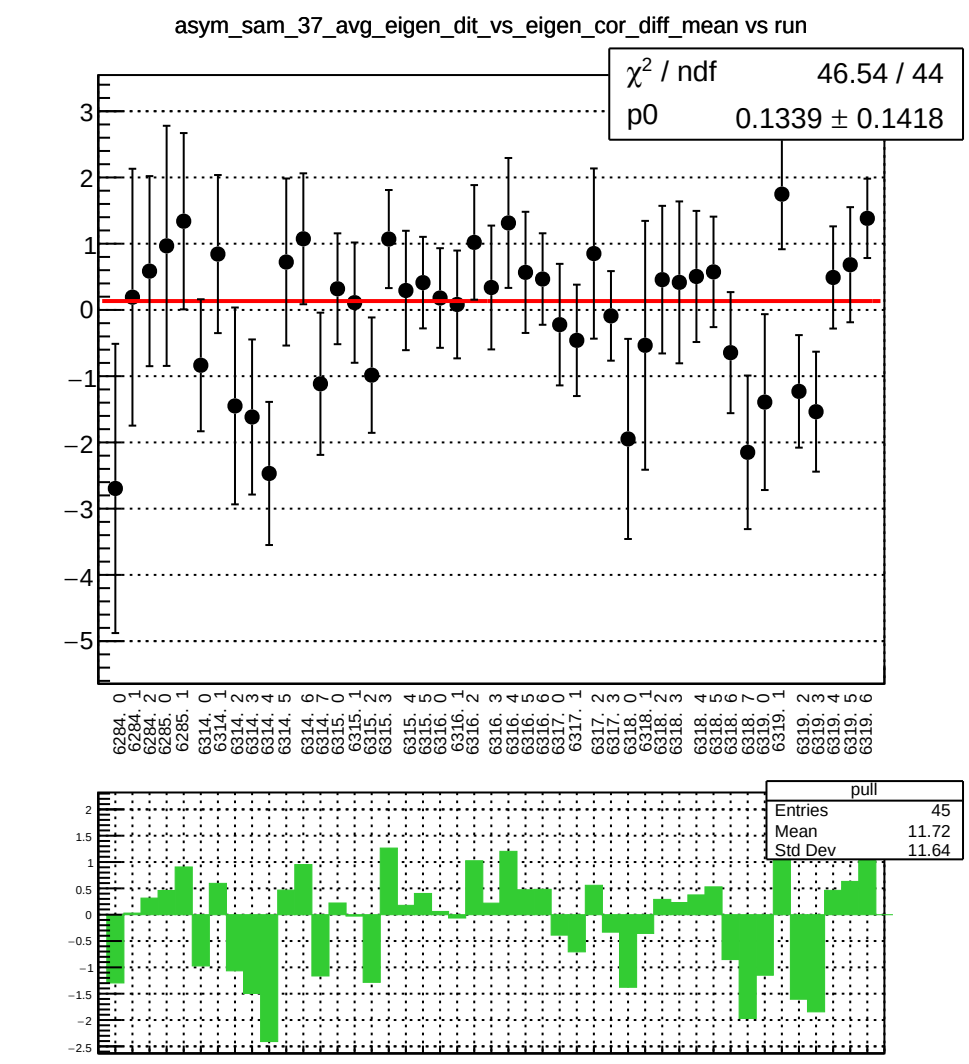
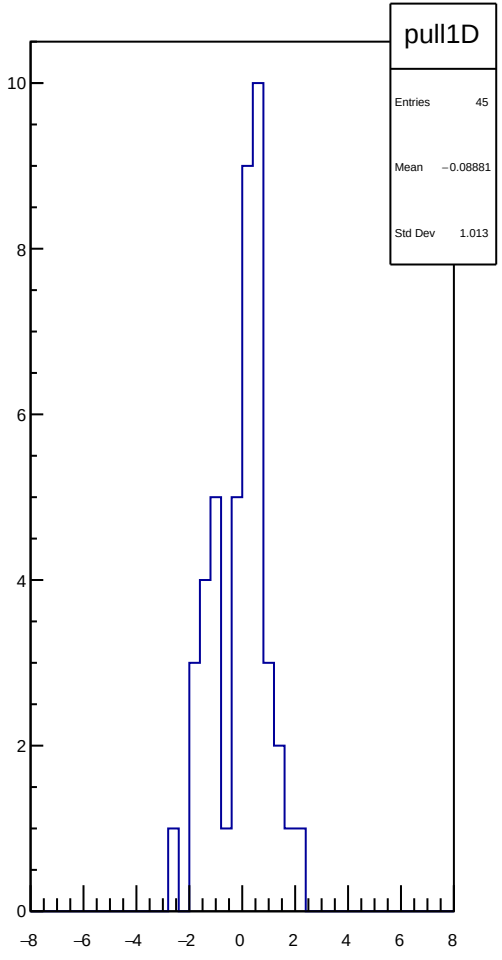
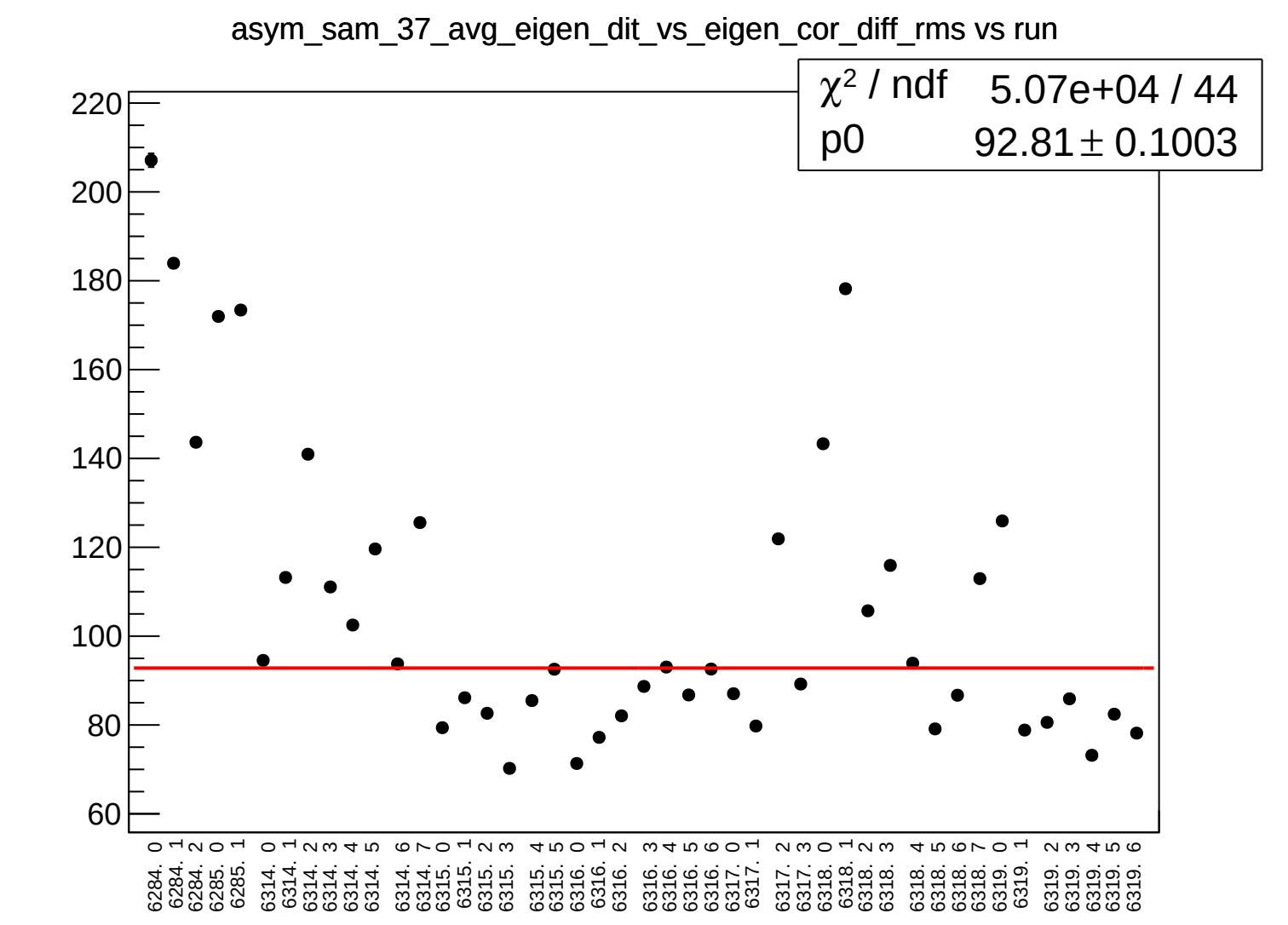
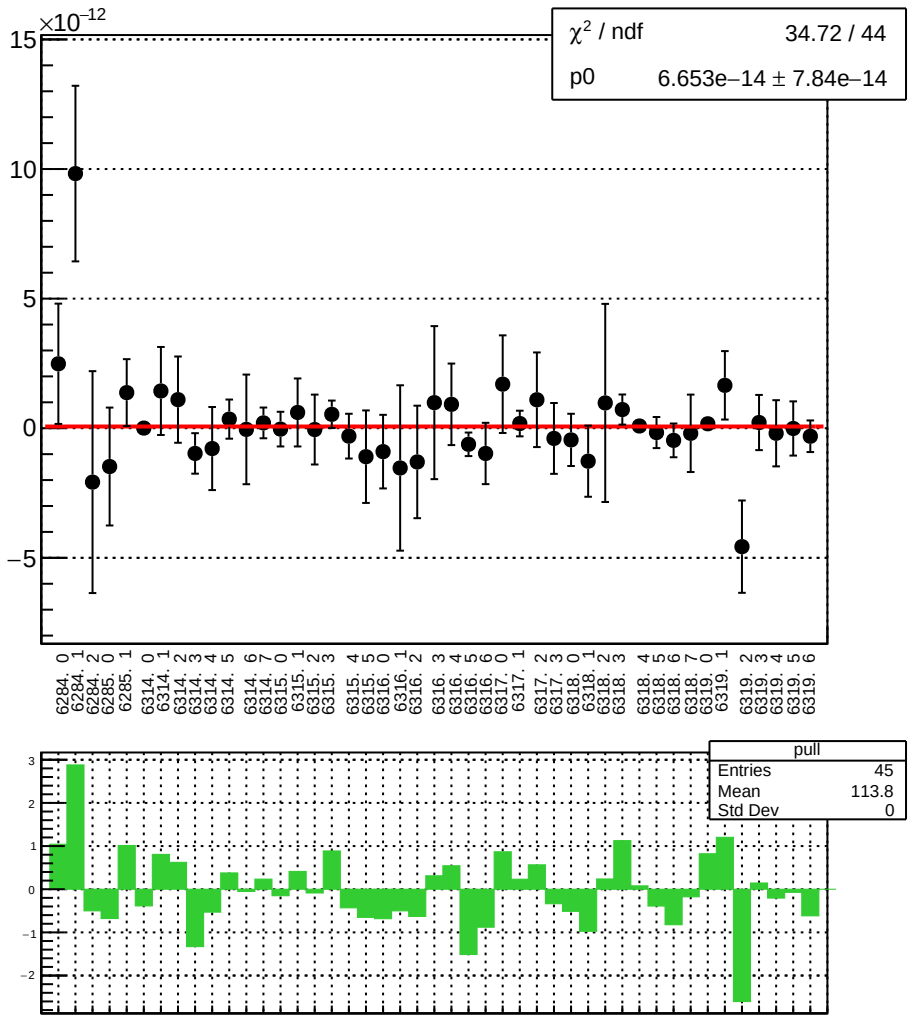
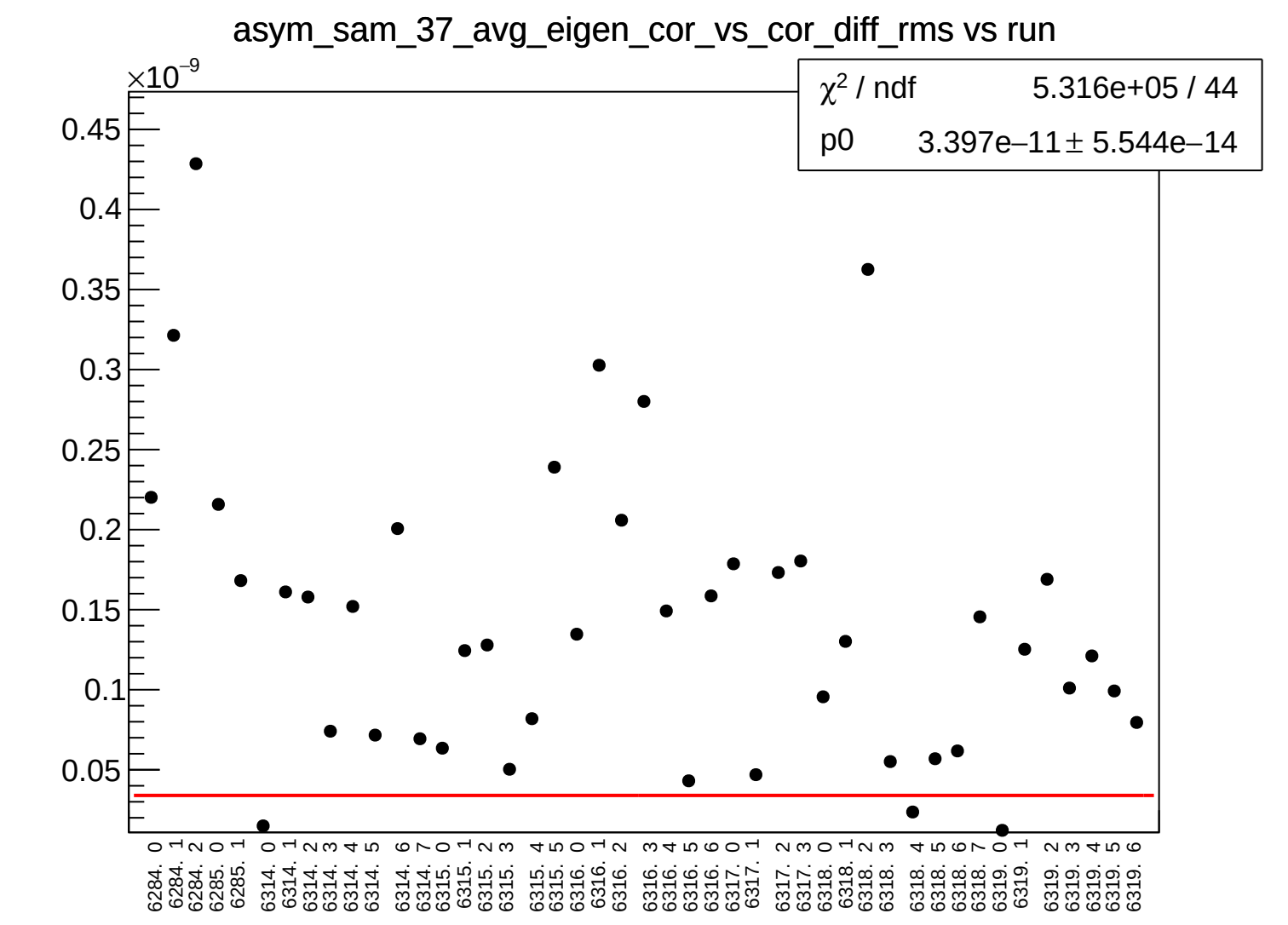
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

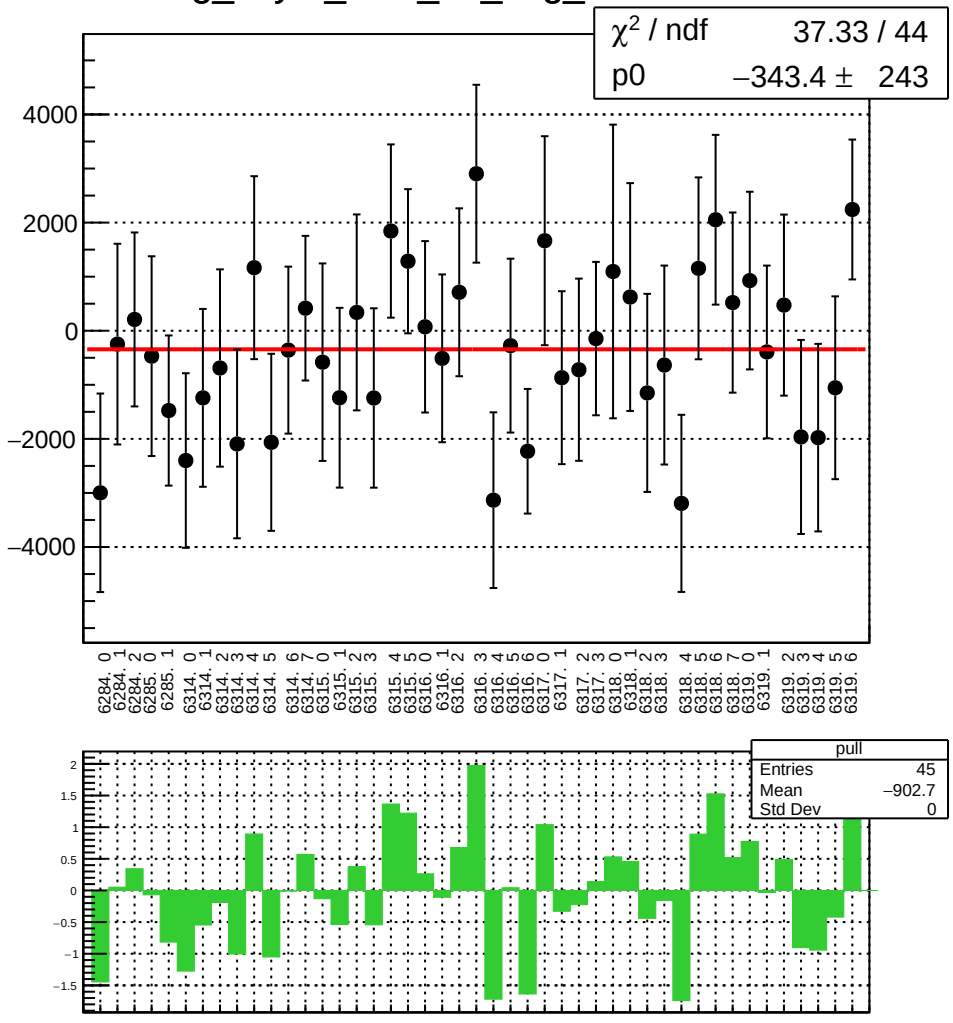

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.54 / 44
p0 0.1339 ± 0.1418
pull
Entries 45
Mean 11.72
Std Dev 11.64

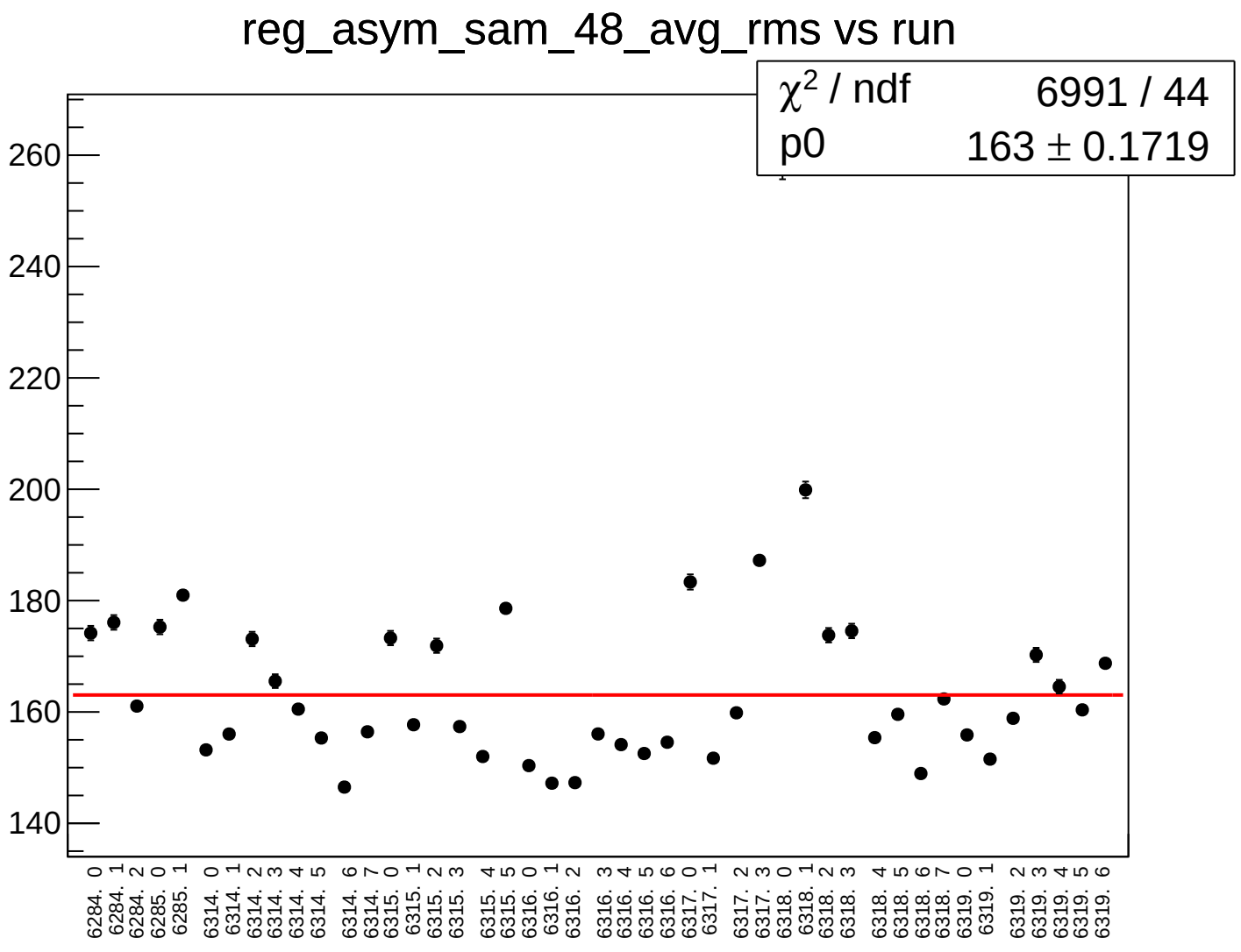

pull1D
Entries 45
Mean −0.08881
Std Dev 1.013

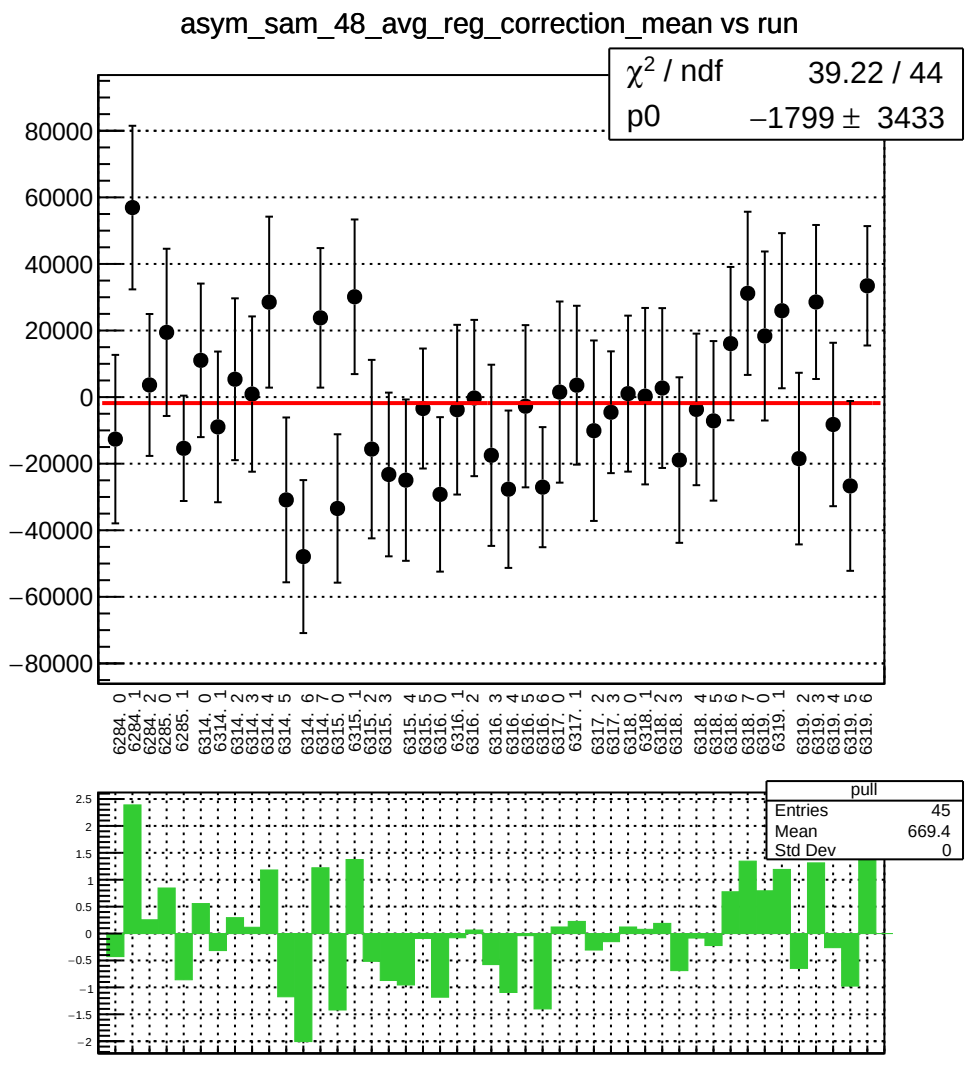

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.07e+04 / 44
p0 92.81 ± 0.1003
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

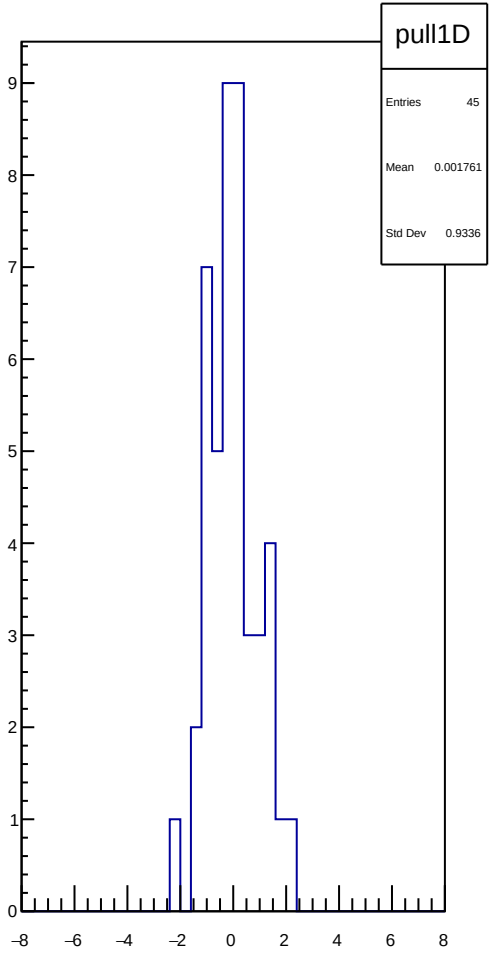

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.72 / 44
p0 6.653e−14 ± 7.84e−14
15
10
5
0
−5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 113.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02896
Std Dev 0.8779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

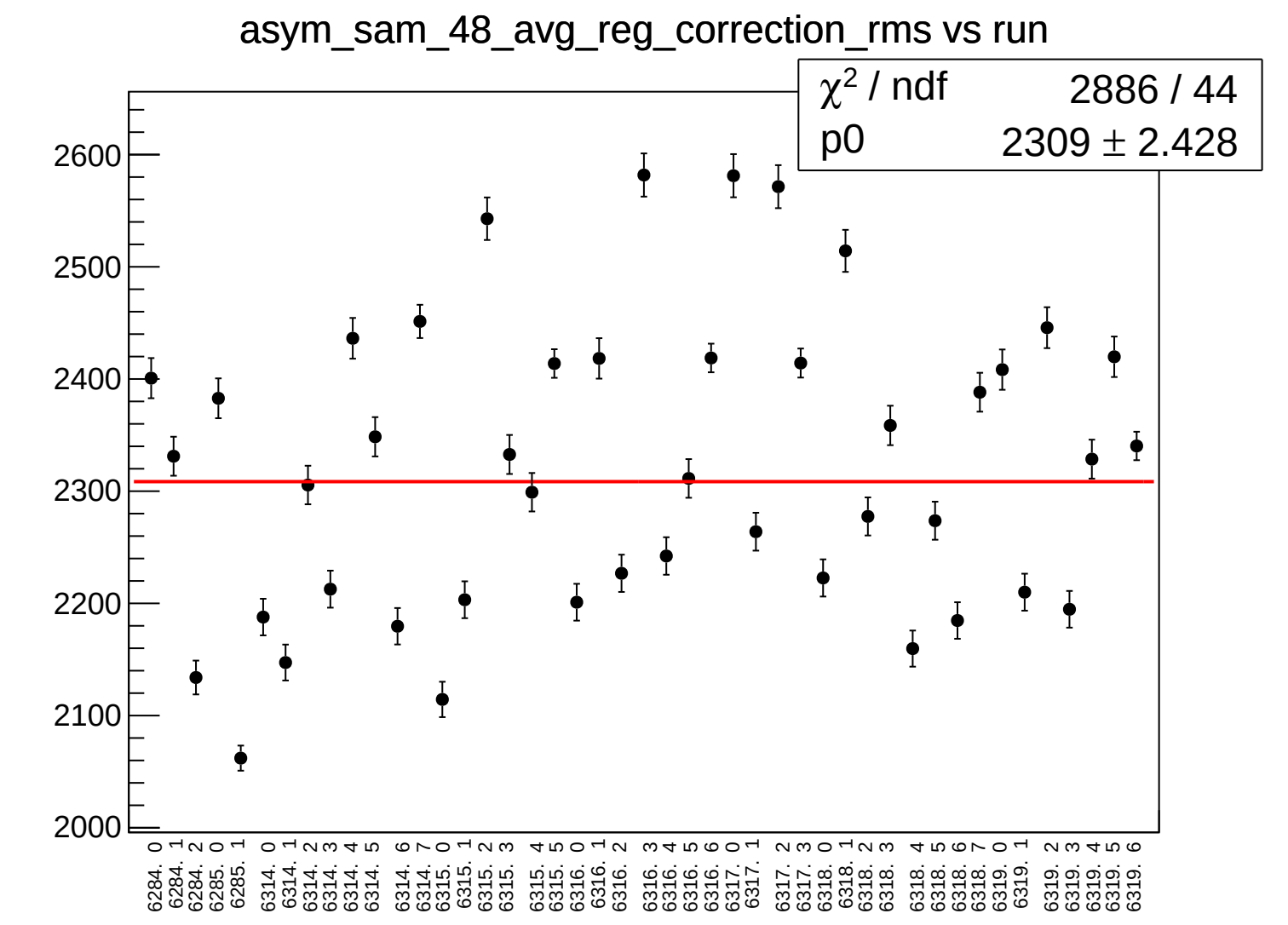

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.316e+05 / 44
p0 3.397e−11 ± 5.544e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_48_avg_mean vs run
χ² / ndf 37.33 / 44
p0 −343.4 ± 243
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −902.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.002718
Std Dev 0.9108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_rms vs run
χ² / ndf 6991 / 44
p0 163 ± 0.1719
260
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 39.22 / 44
p0 −1799 ± 3433
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 669.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001761
Std Dev 0.9336
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2886 / 44
p0 2309 ± 2.428
2600
2500
2400
2300
2200
2100
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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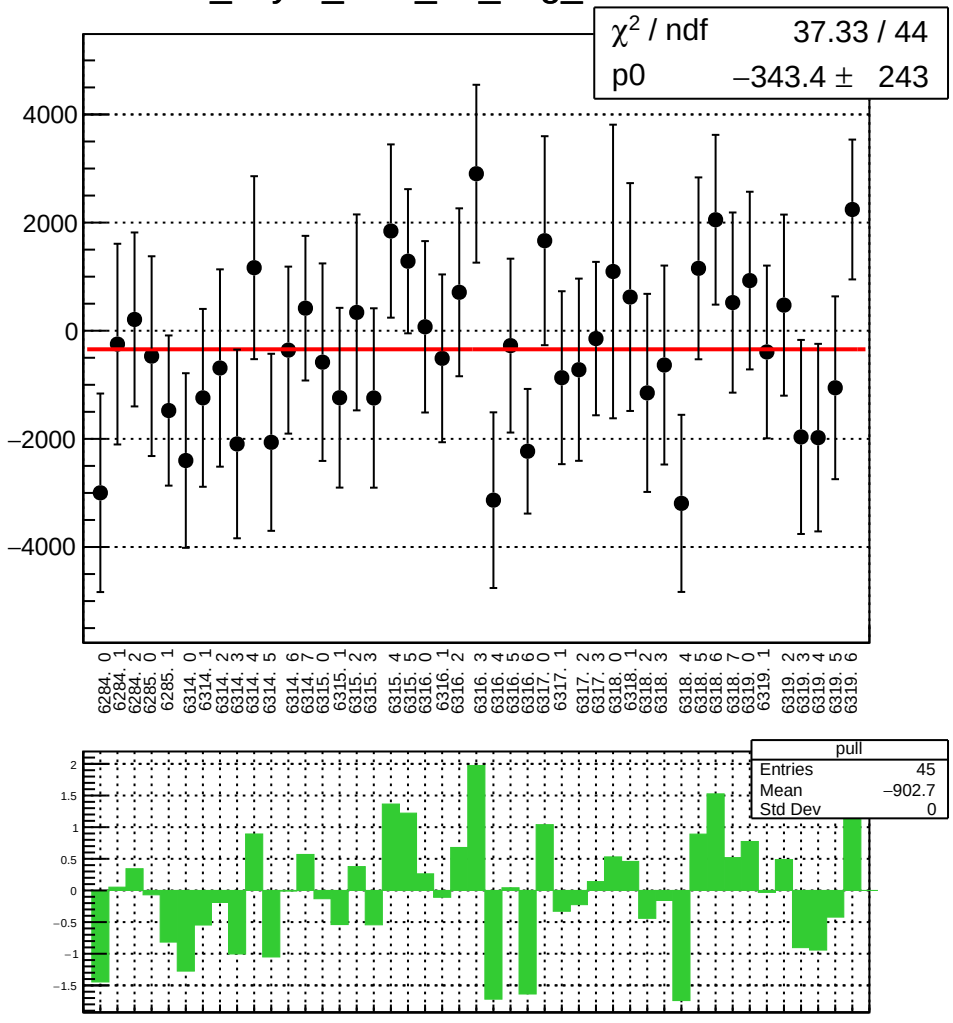
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_48_avg_mean vs run
χ² / ndf 37.33 / 44
p0 −343.4 ± 243
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
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6315. 4
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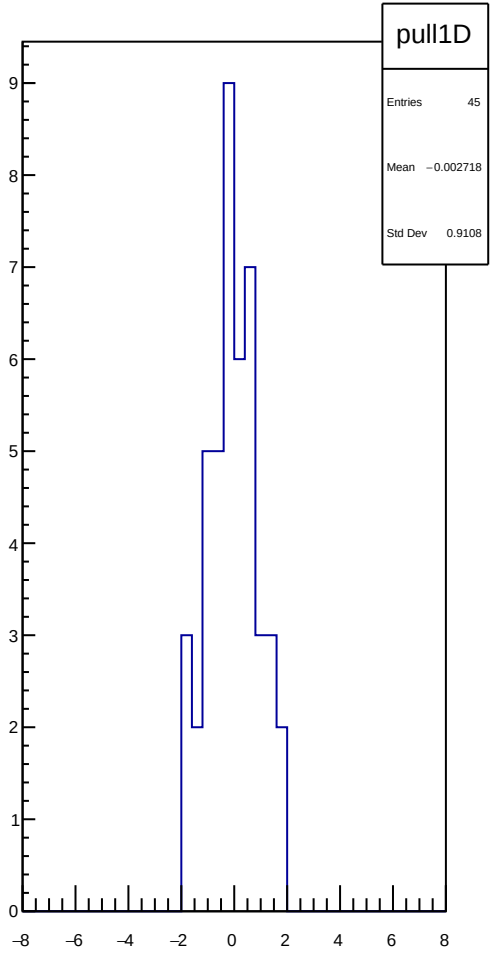
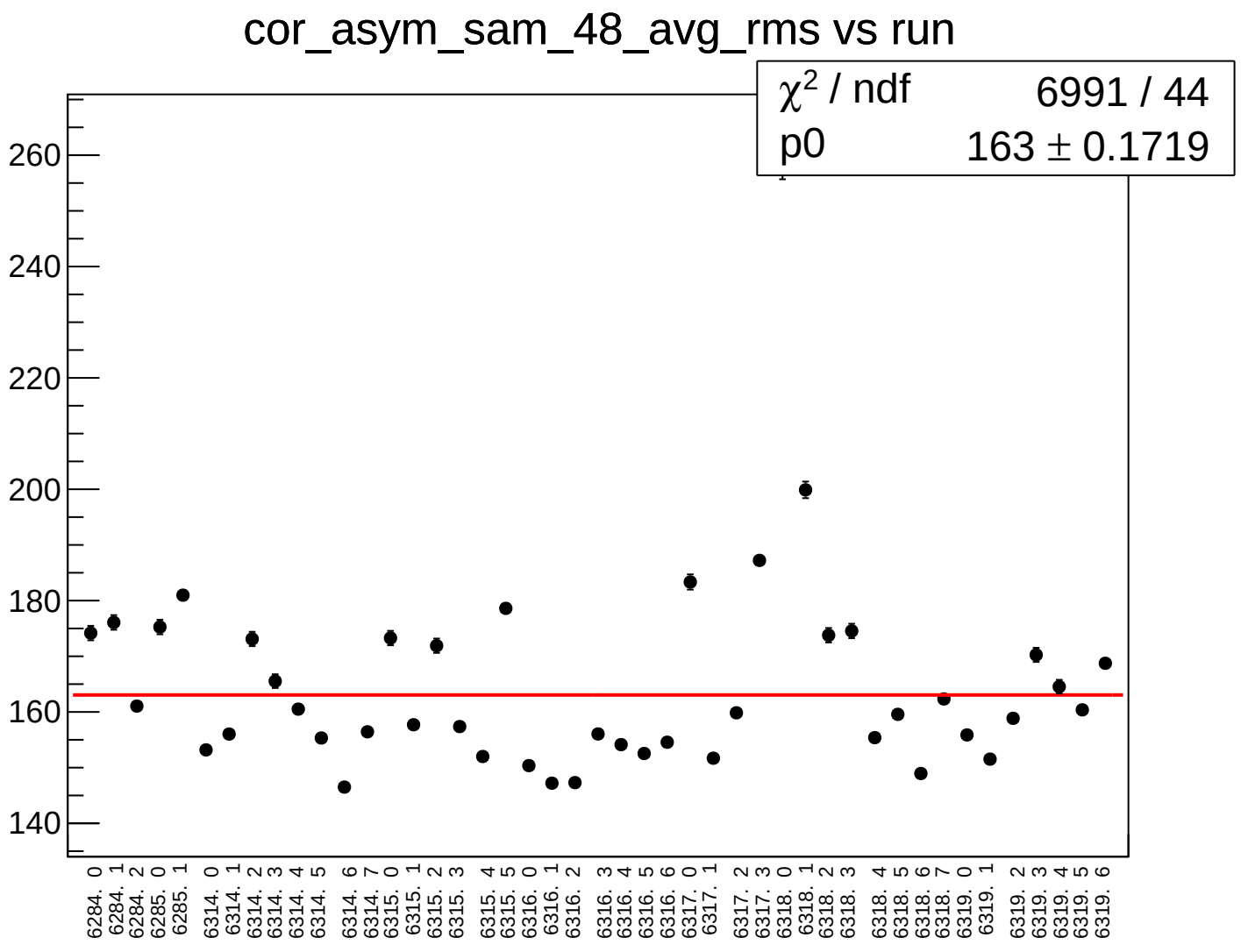
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −902.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.002718
Std Dev 0.9108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_avg_rms vs run
χ² / ndf 6991 / 44
p0 163 ± 0.1719
260
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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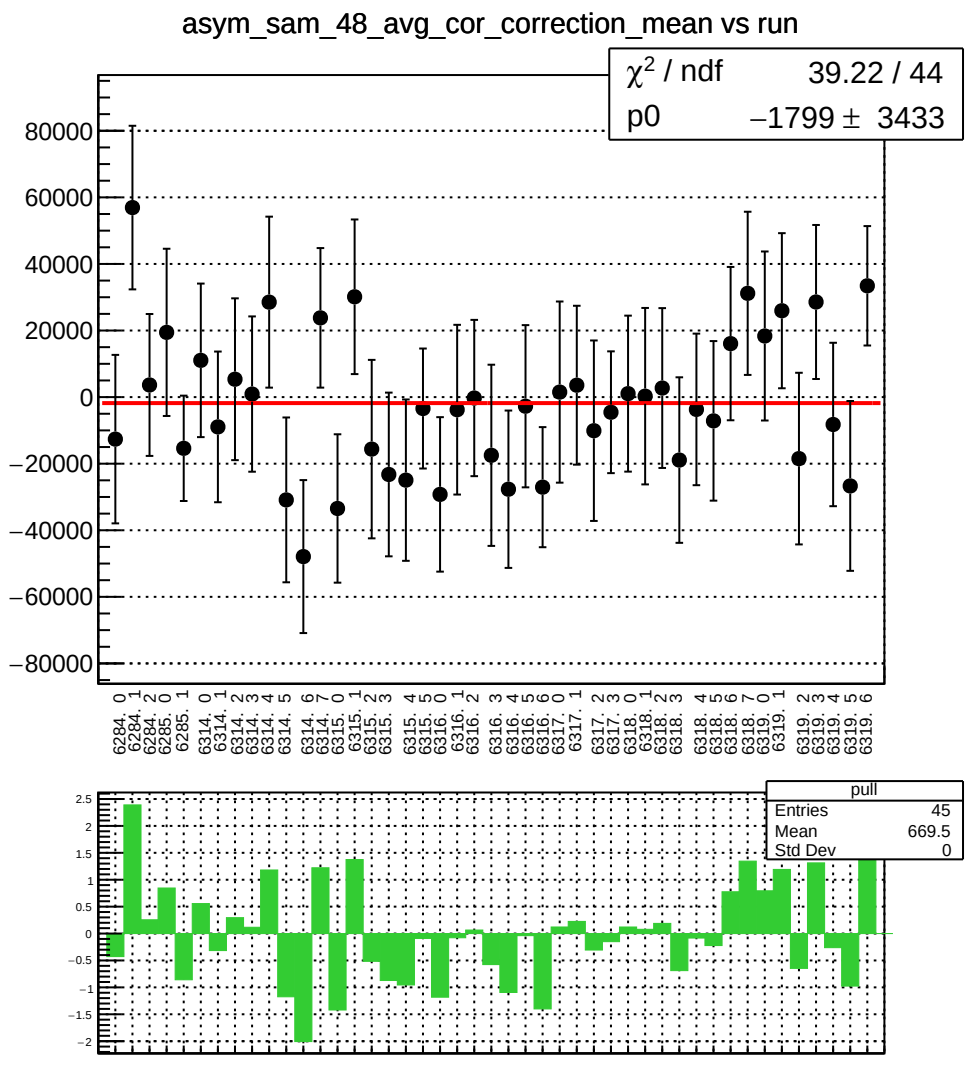
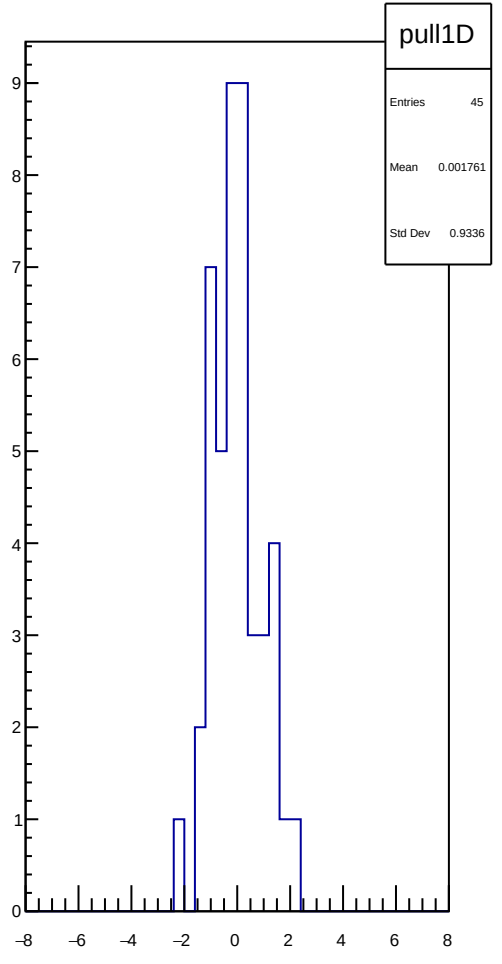
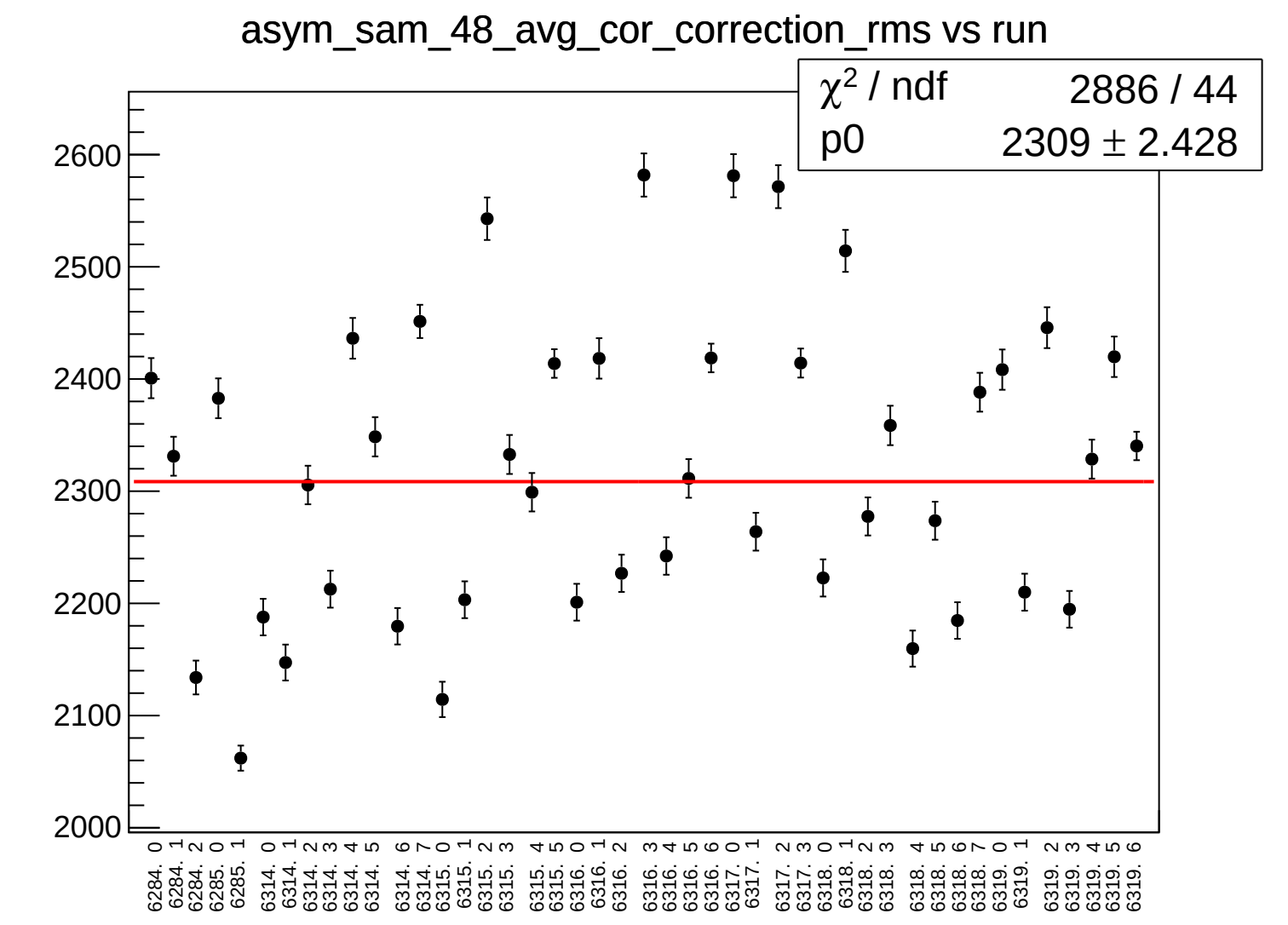
6319. 5
6319. 6


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 39.22 / 44
p0 −1799 ± 3433
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 669.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001761
Std Dev 0.9336
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2886 / 44
p0 2309 ± 2.428
2600
2500
2400
2300
2200
2100
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 2
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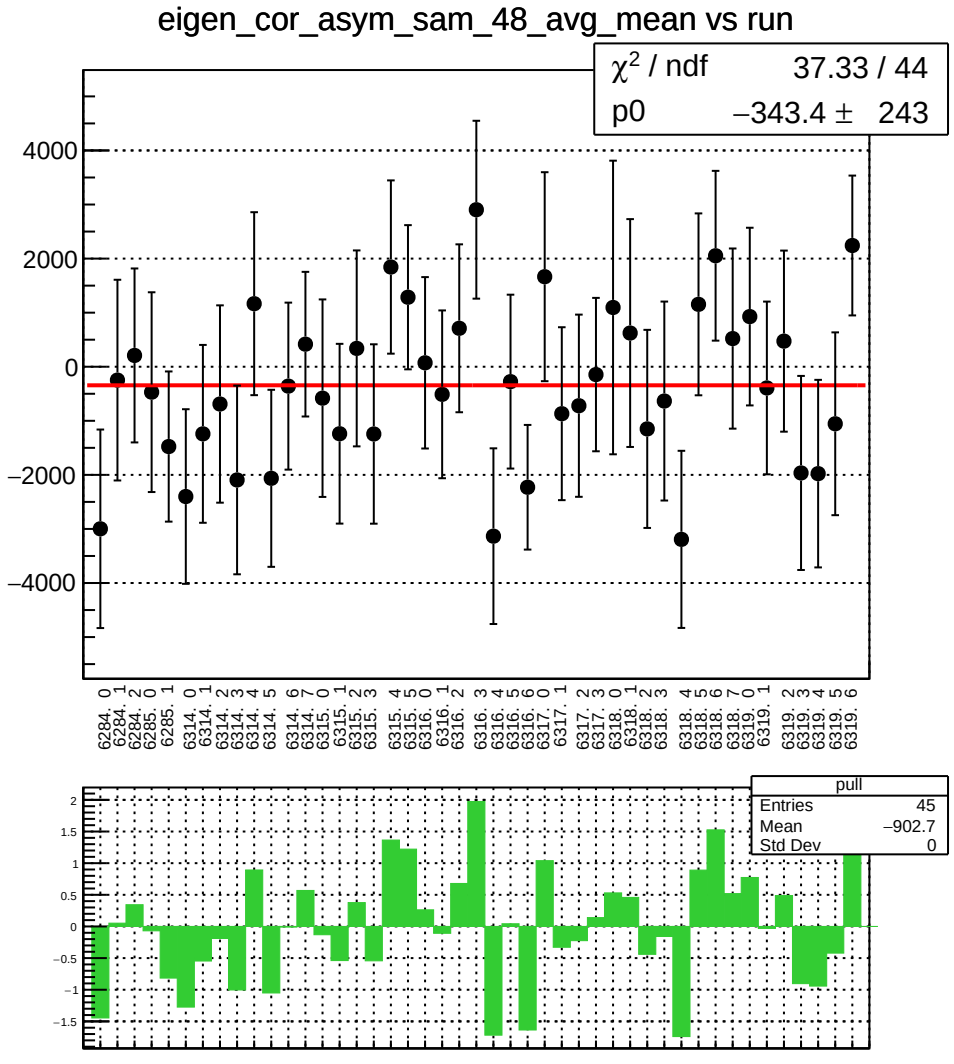
6319. 6


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 37.33 / 44
p0 −343.4 ± 243
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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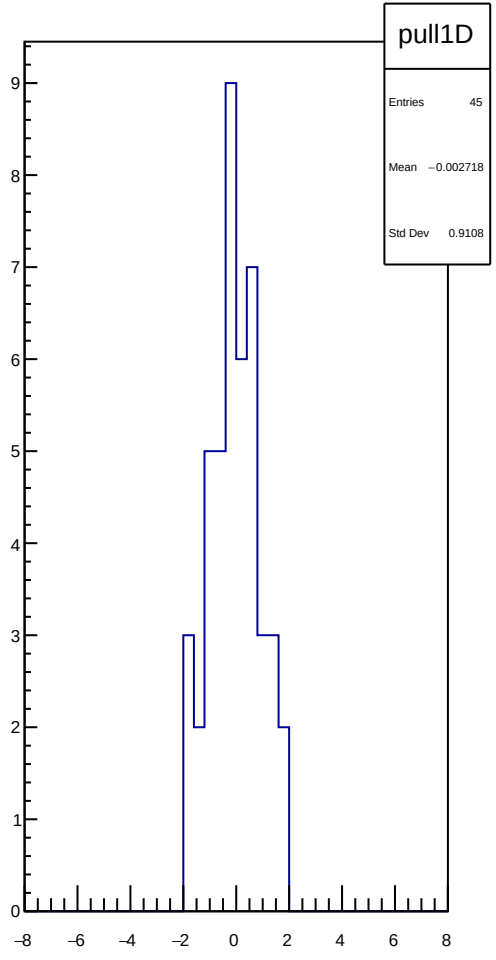
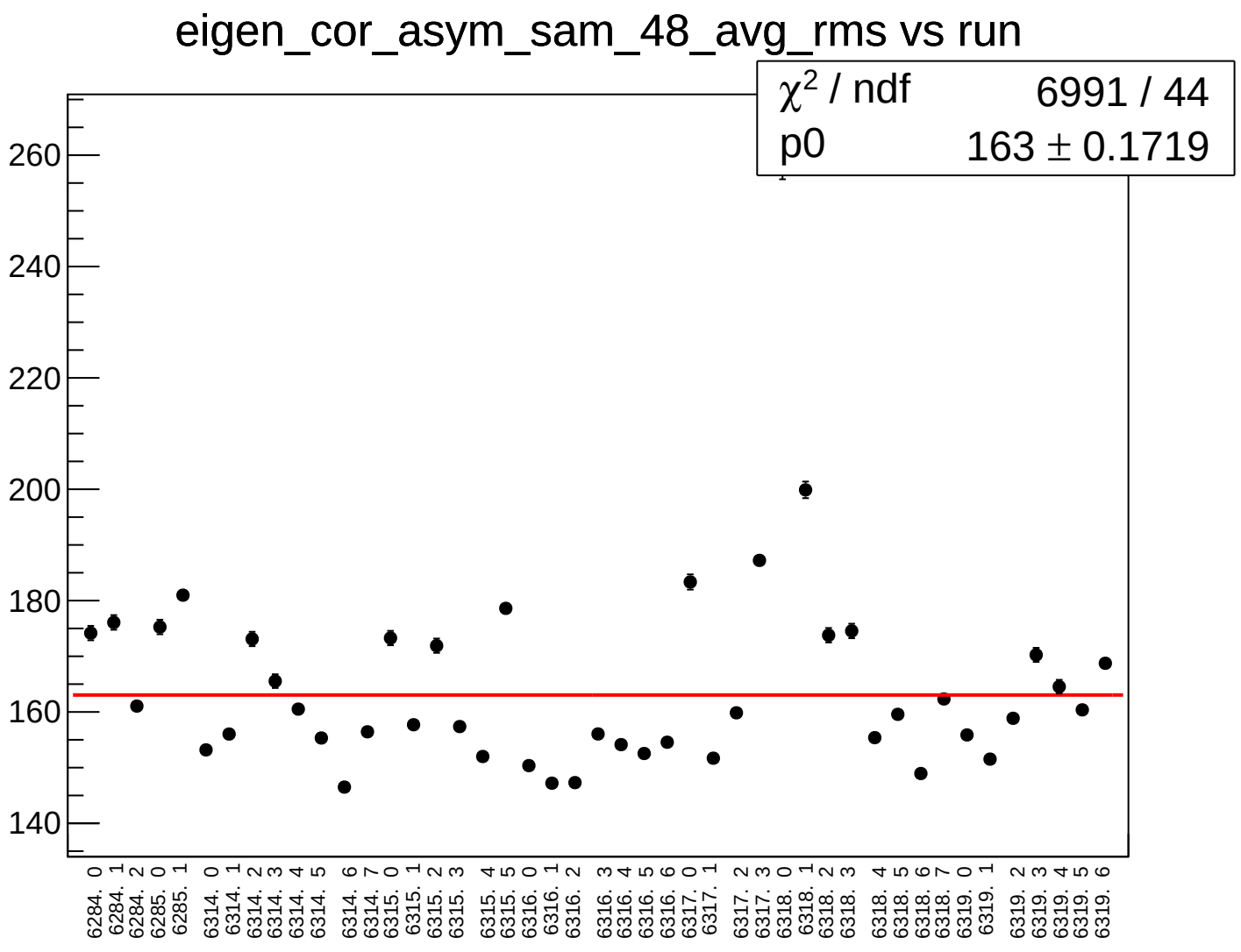
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −902.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.002718
Std Dev 0.9108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 6991 / 44
p0 163 ± 0.1719
260
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
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6316. 0
6316. 1
6316. 2
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
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6318. 4
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6319. 2
6319. 3
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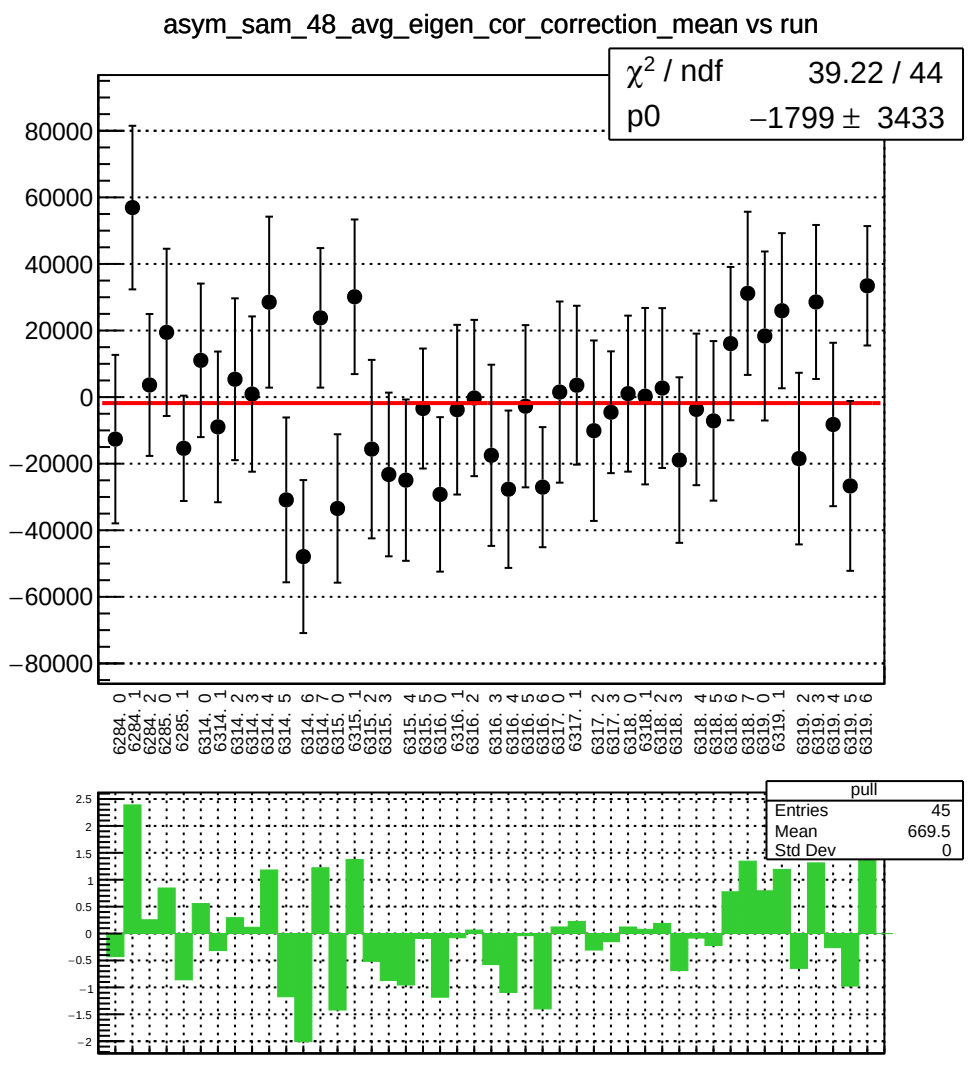
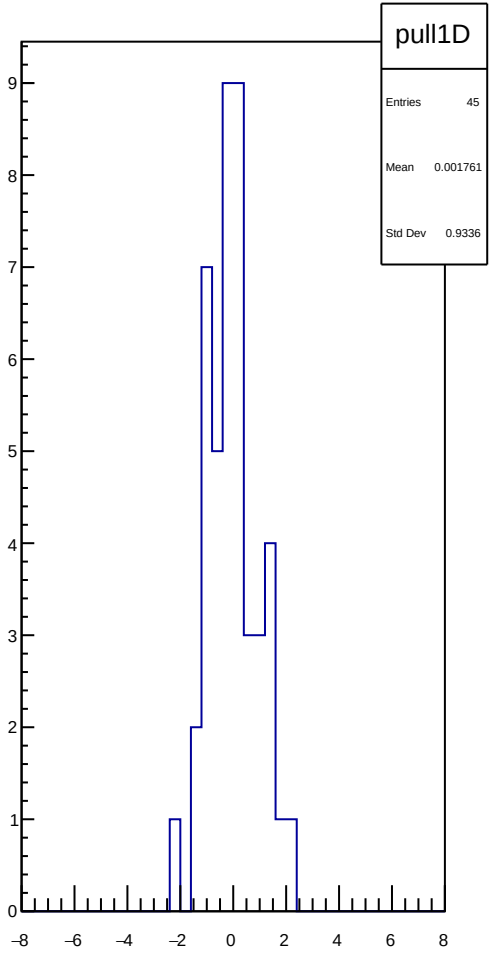
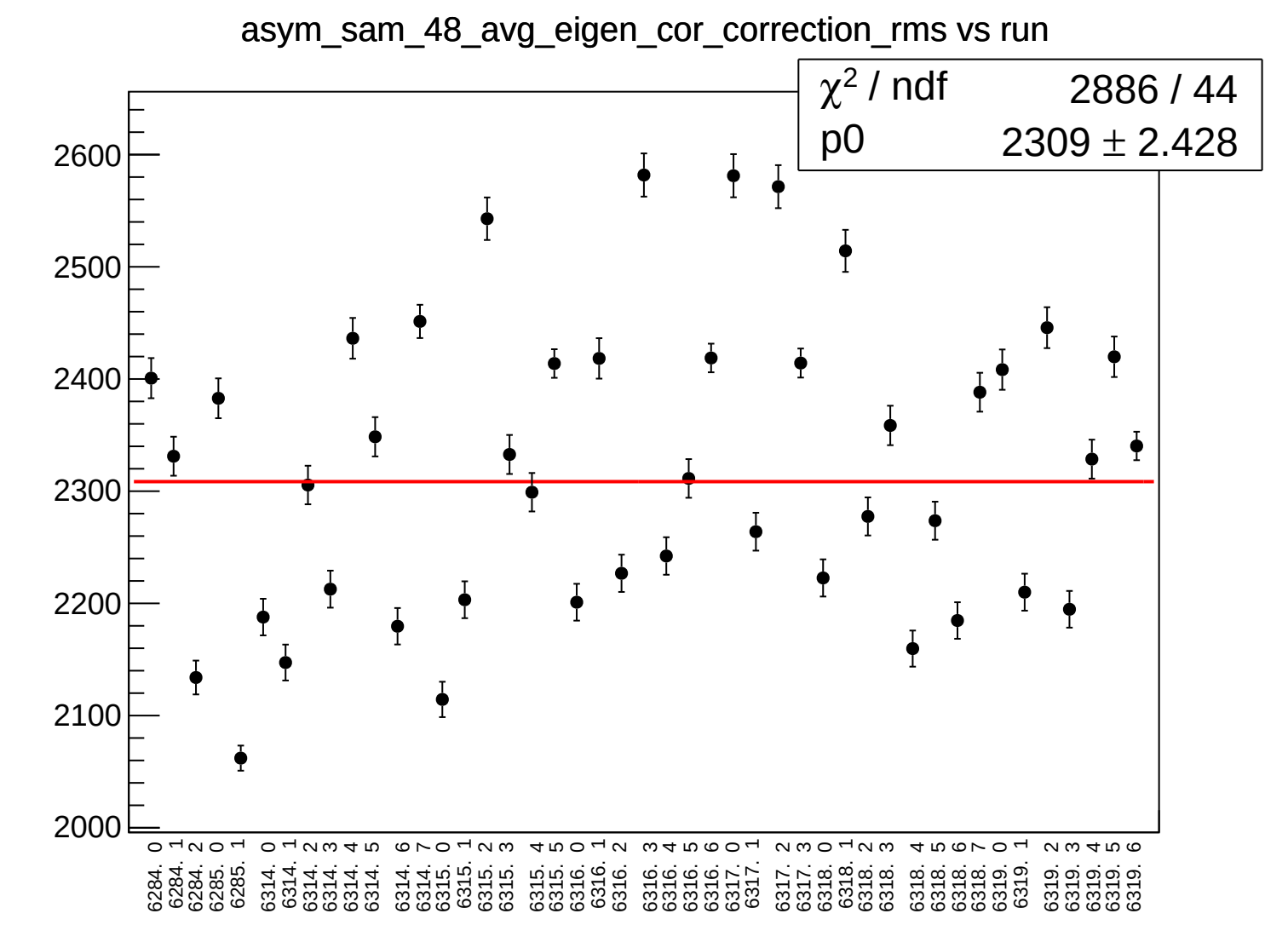
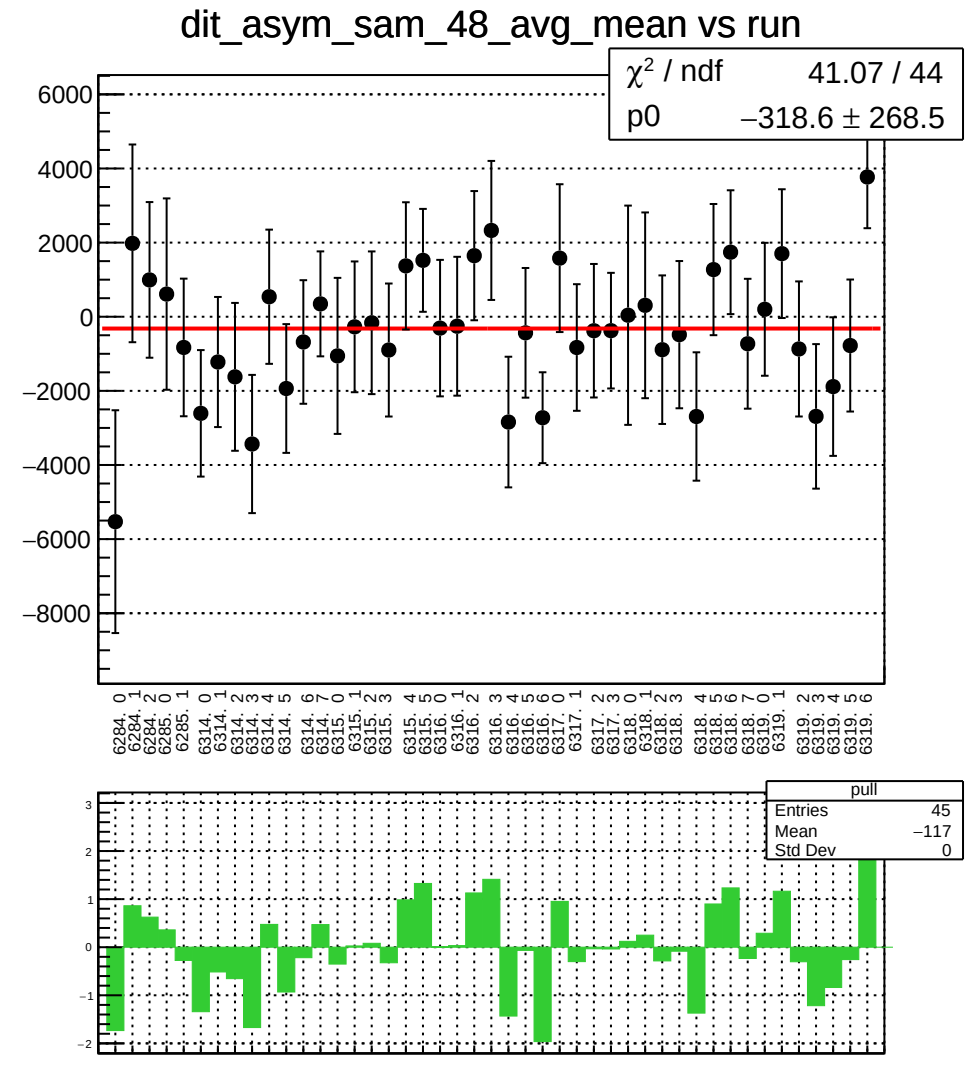
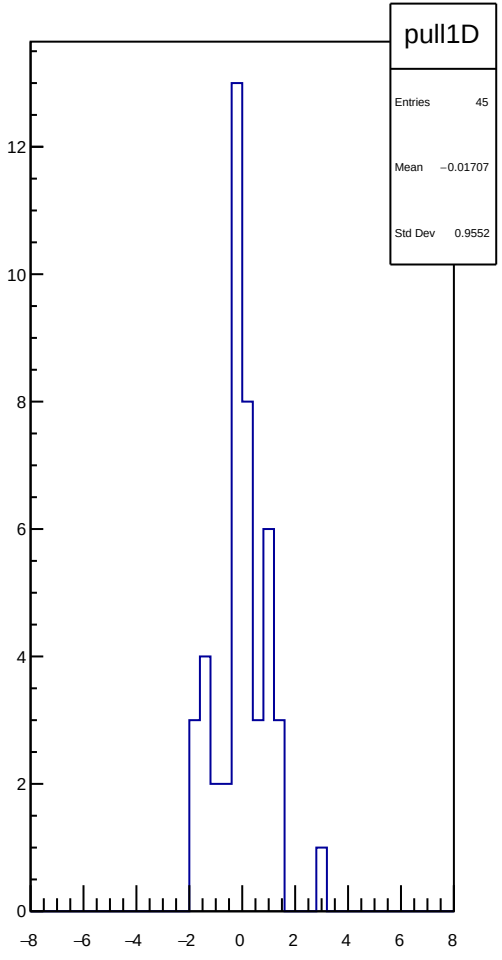
6319. 5
6319. 6

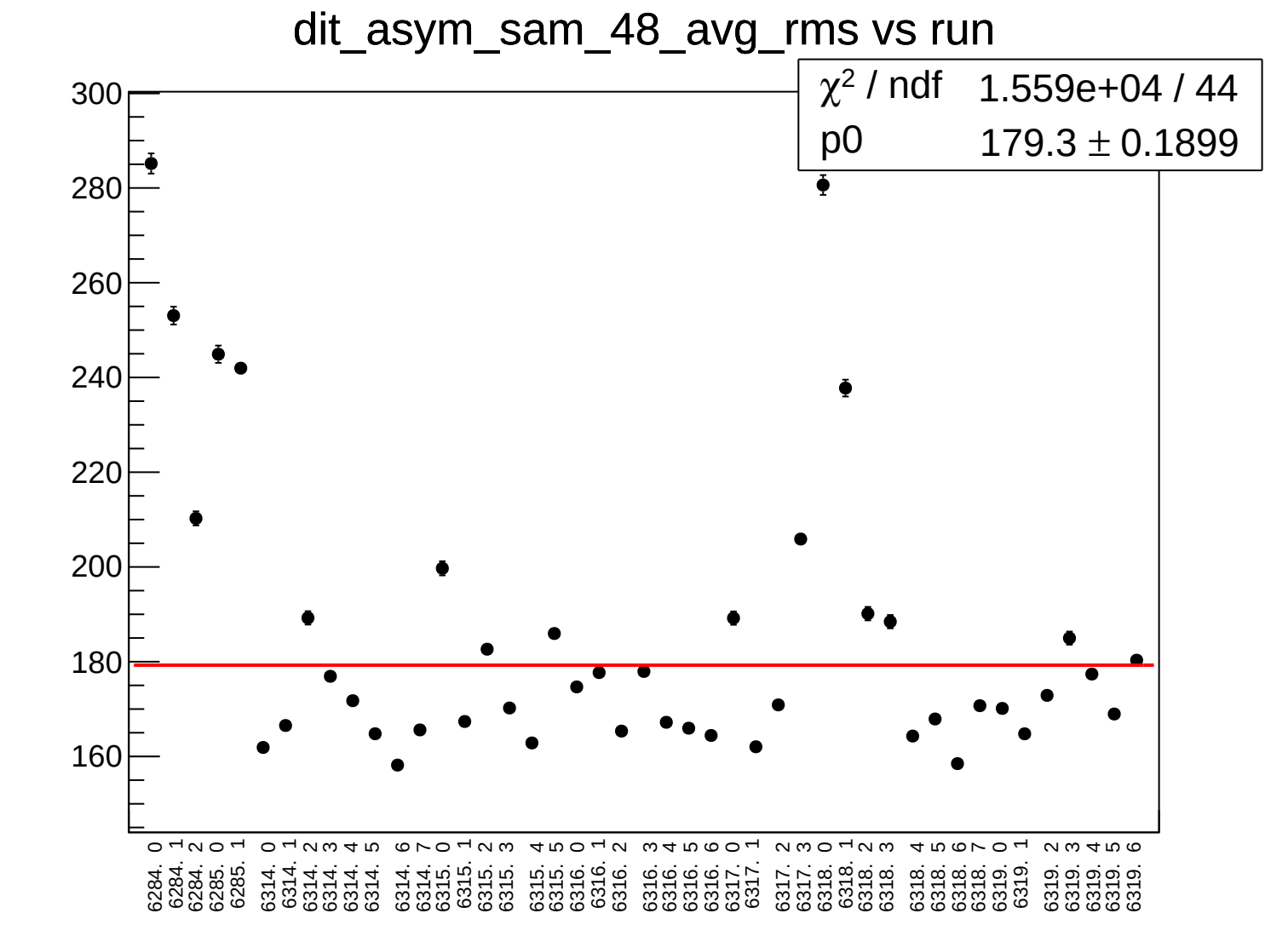

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.22 / 44
p0 −1799 ± 3433
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 669.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

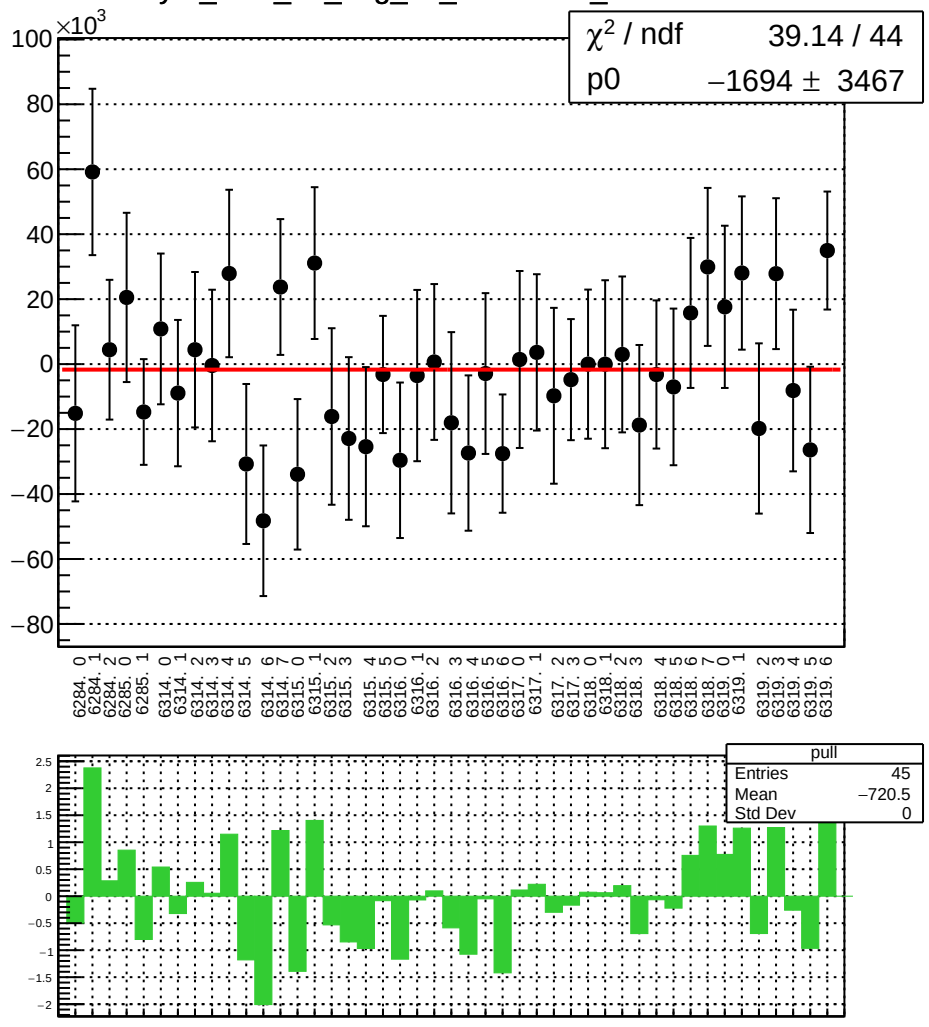

pull1D
Entries 45
Mean 0.001761
Std Dev 0.9336
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

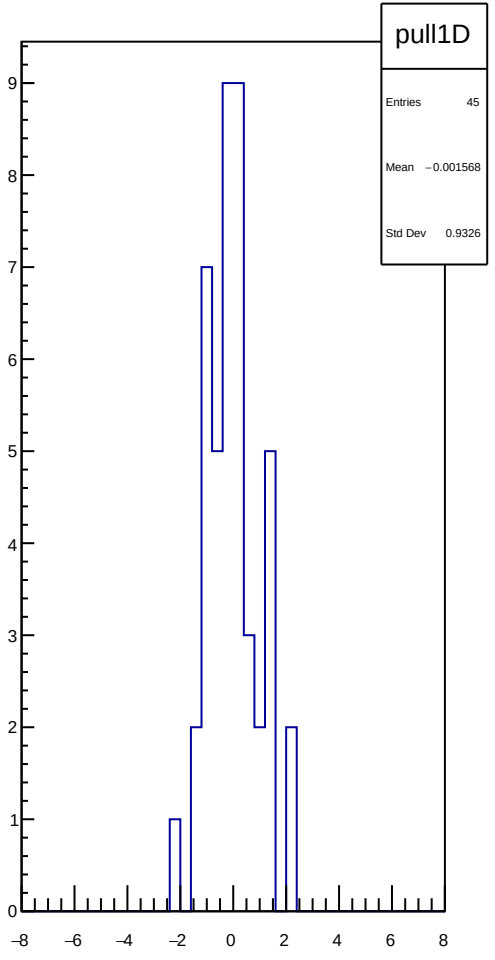

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2886 / 44
p0 2309 ± 2.428
2600
2500
2400
2300
2200
2100
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

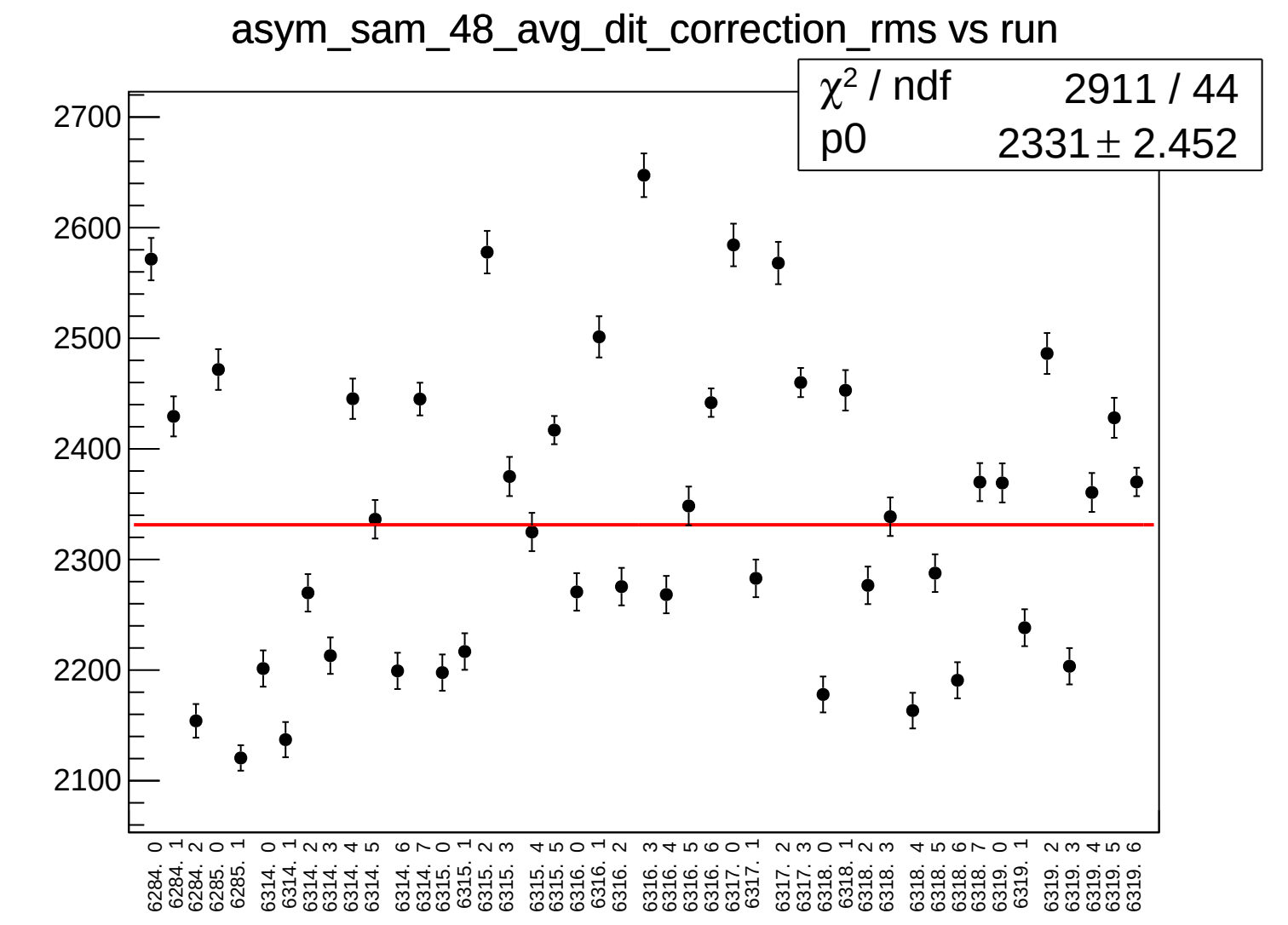

dit_asym_sam_48_avg_mean vs run
χ² / ndf 41.07 / 44
p0 −318.6 ± 268.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −117
Std Dev 0
3
2
1
0
−1
−2

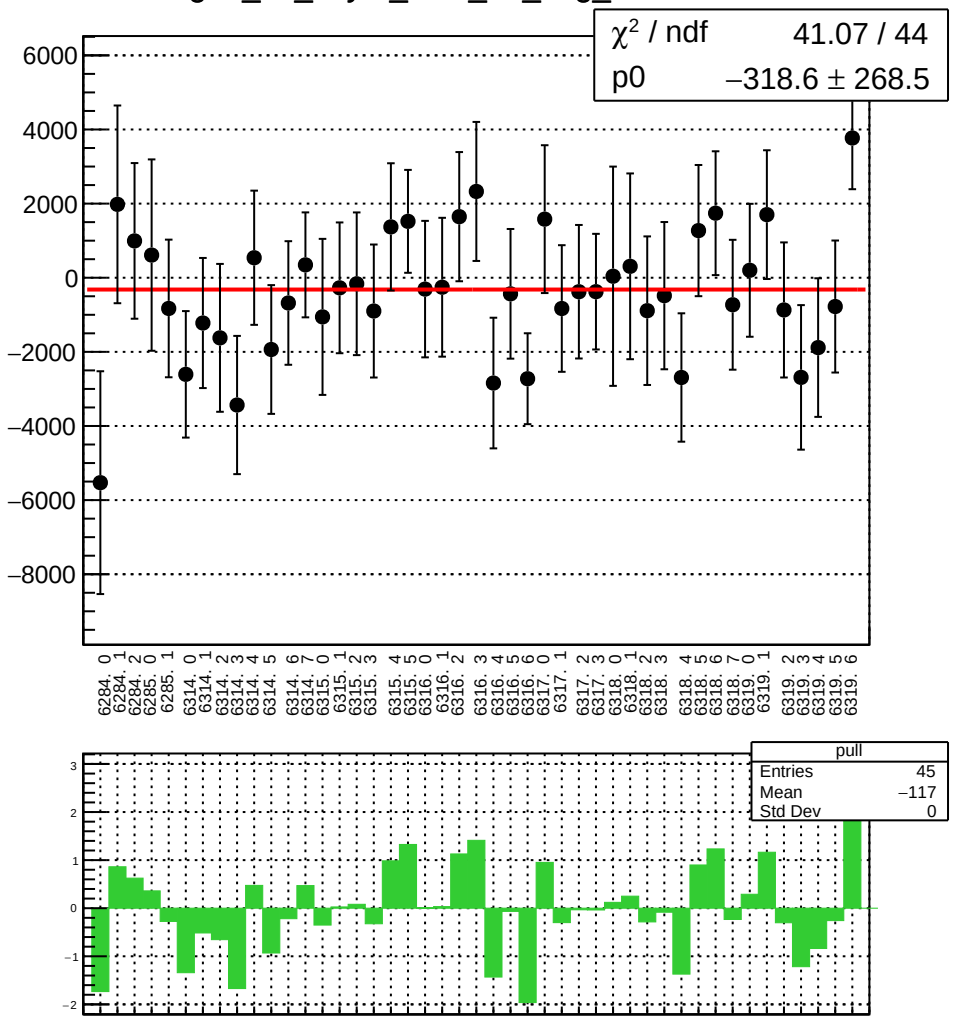

pull1D
Entries 45
Mean −0.01707
Std Dev 0.9552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

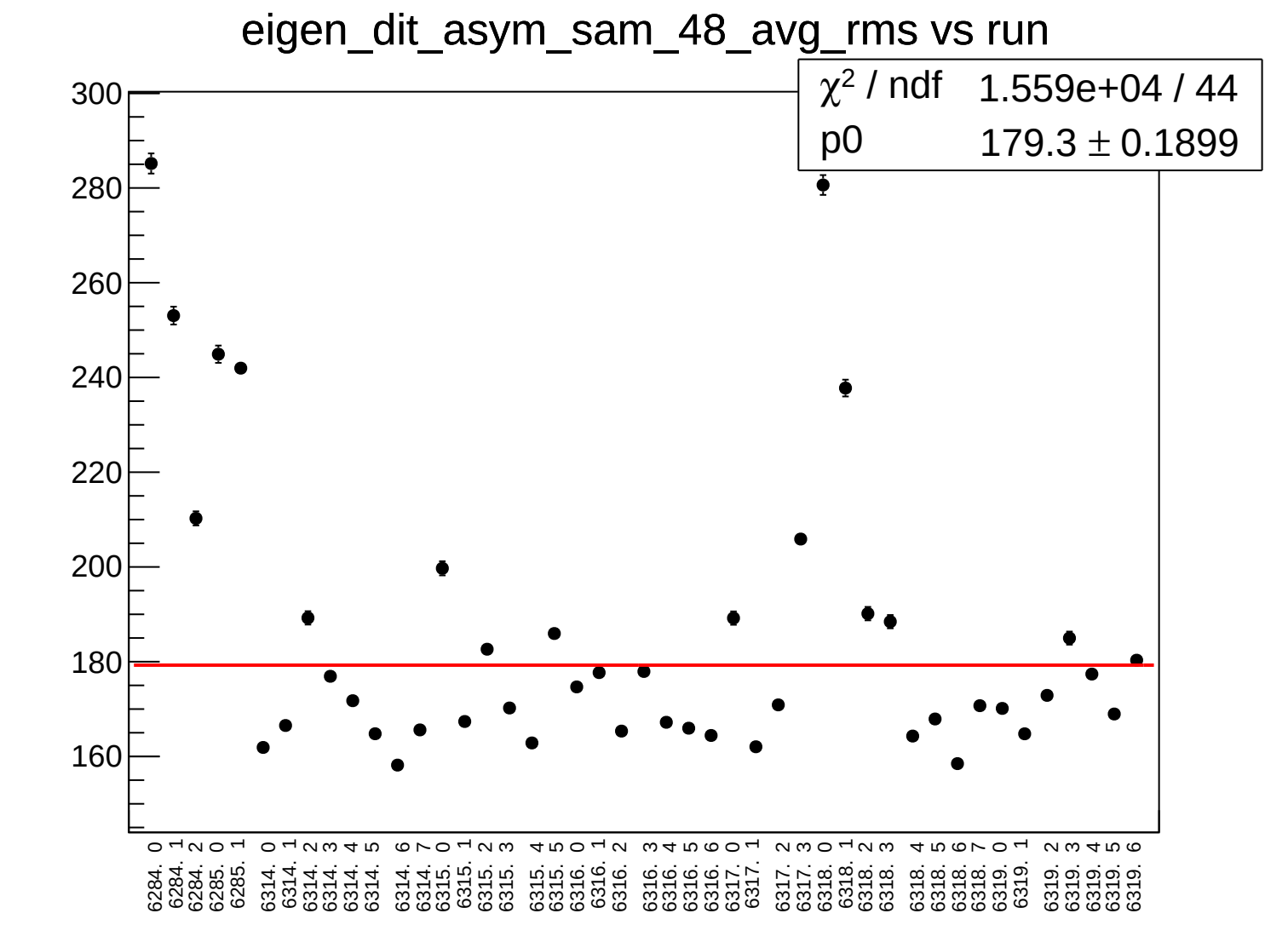

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.559e+04 / 44
p0 179.3 ± 0.1899
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

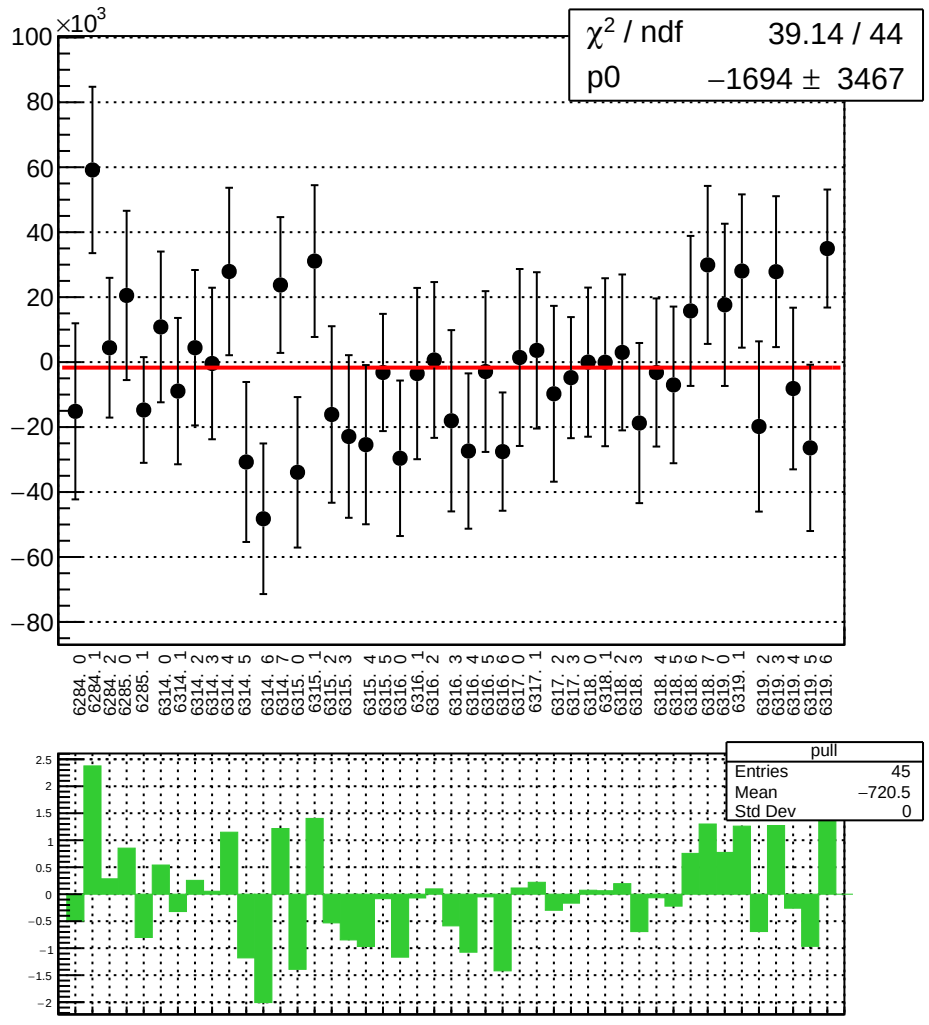

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 39.14 / 44
p0 −1694 ± 3467
×10³
pull
Entries 45
Mean −720.5
Std Dev 0

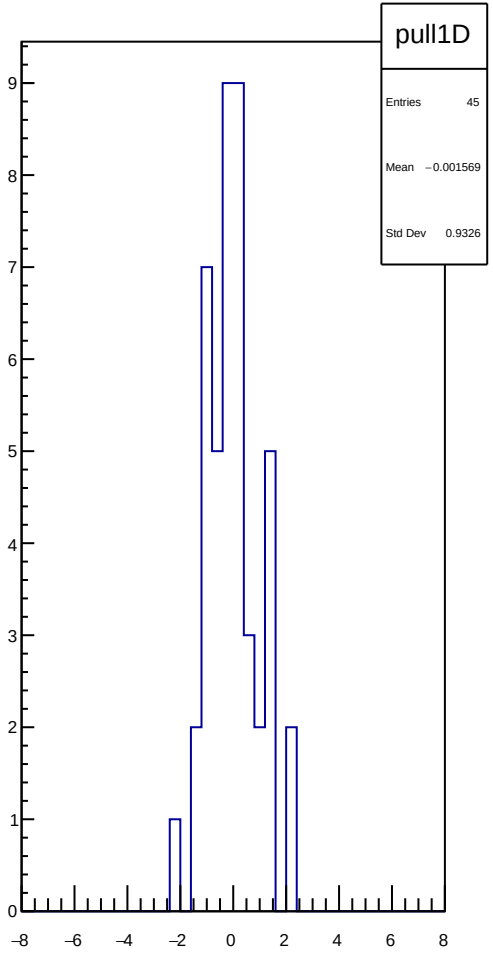

pull1D
Entries 45
Mean −0.001568
Std Dev 0.9326

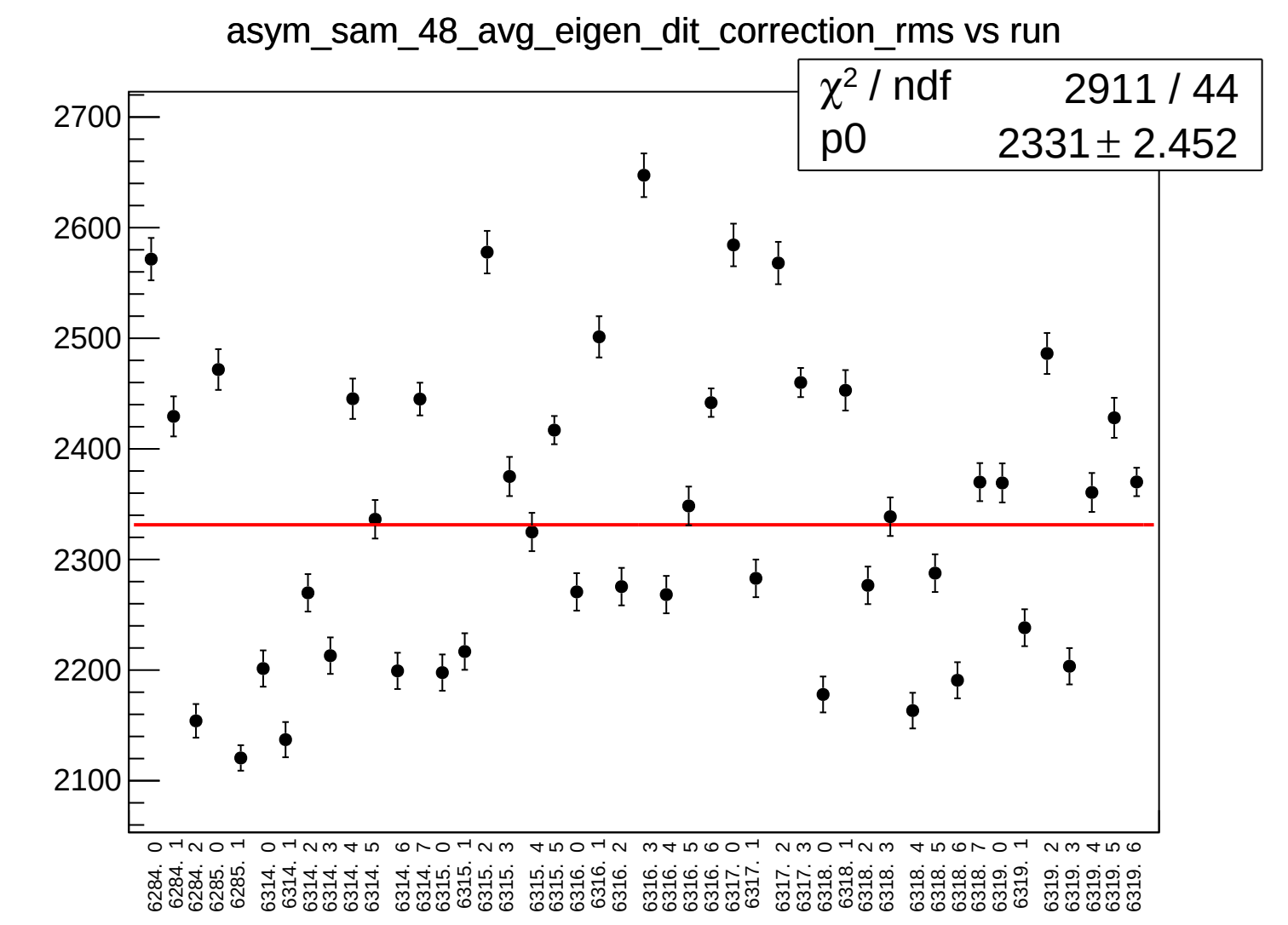

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2911 / 44
p0 2331 ± 2.452
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

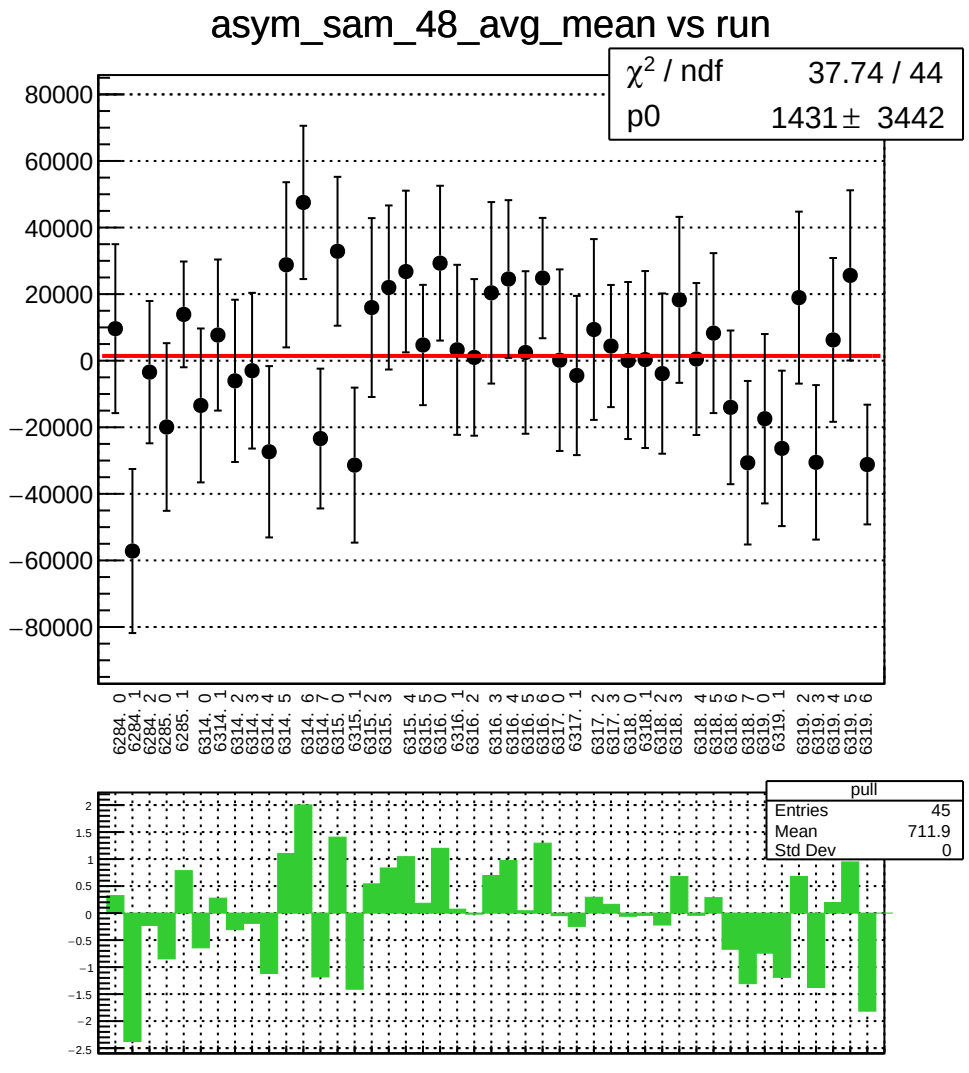

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 41.07 / 44
p0 −318.6 ± 268.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −117
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01707
Std Dev 0.9552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

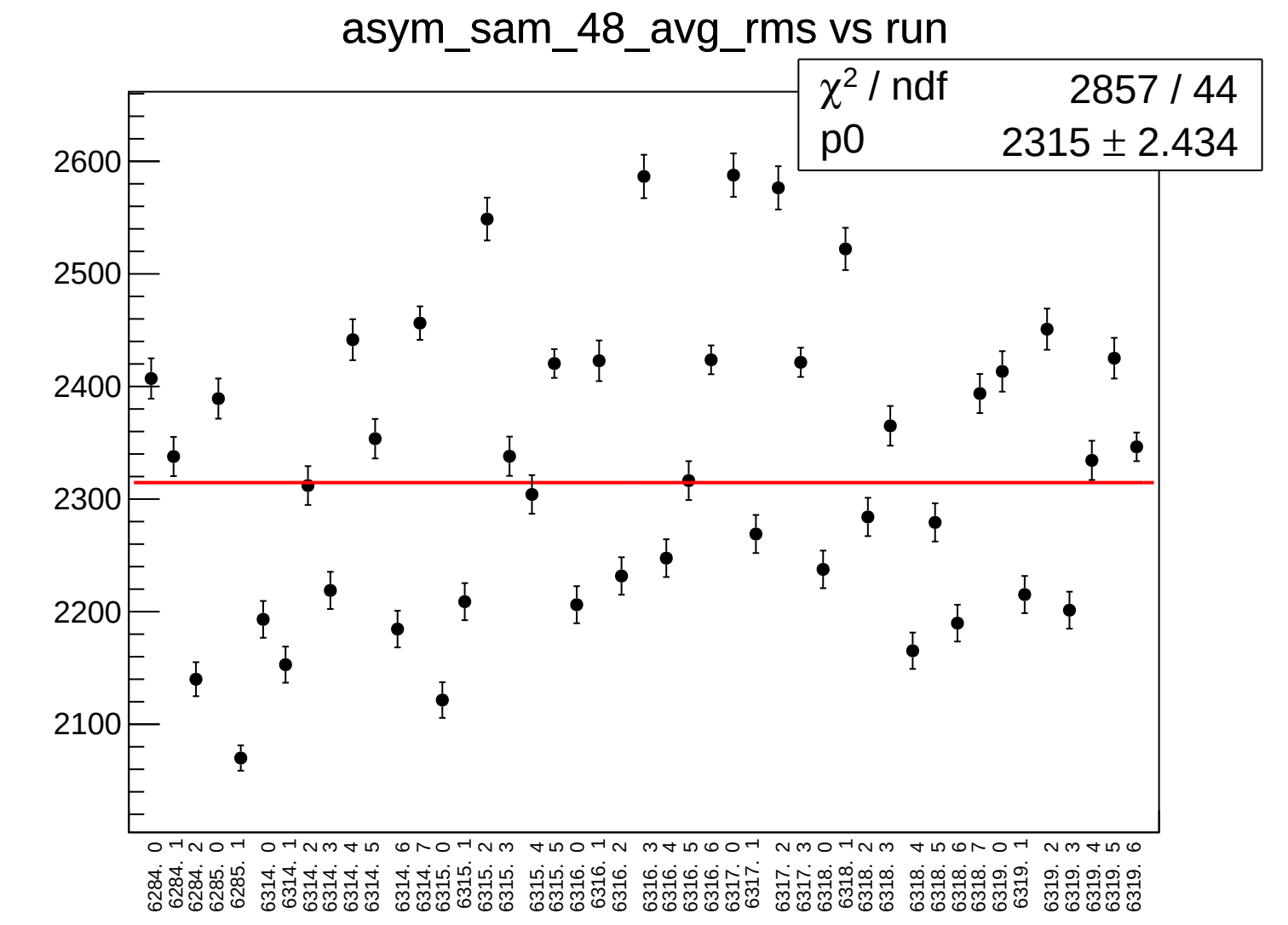

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.559e+04 / 44
p0 179.3 ± 0.1899
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

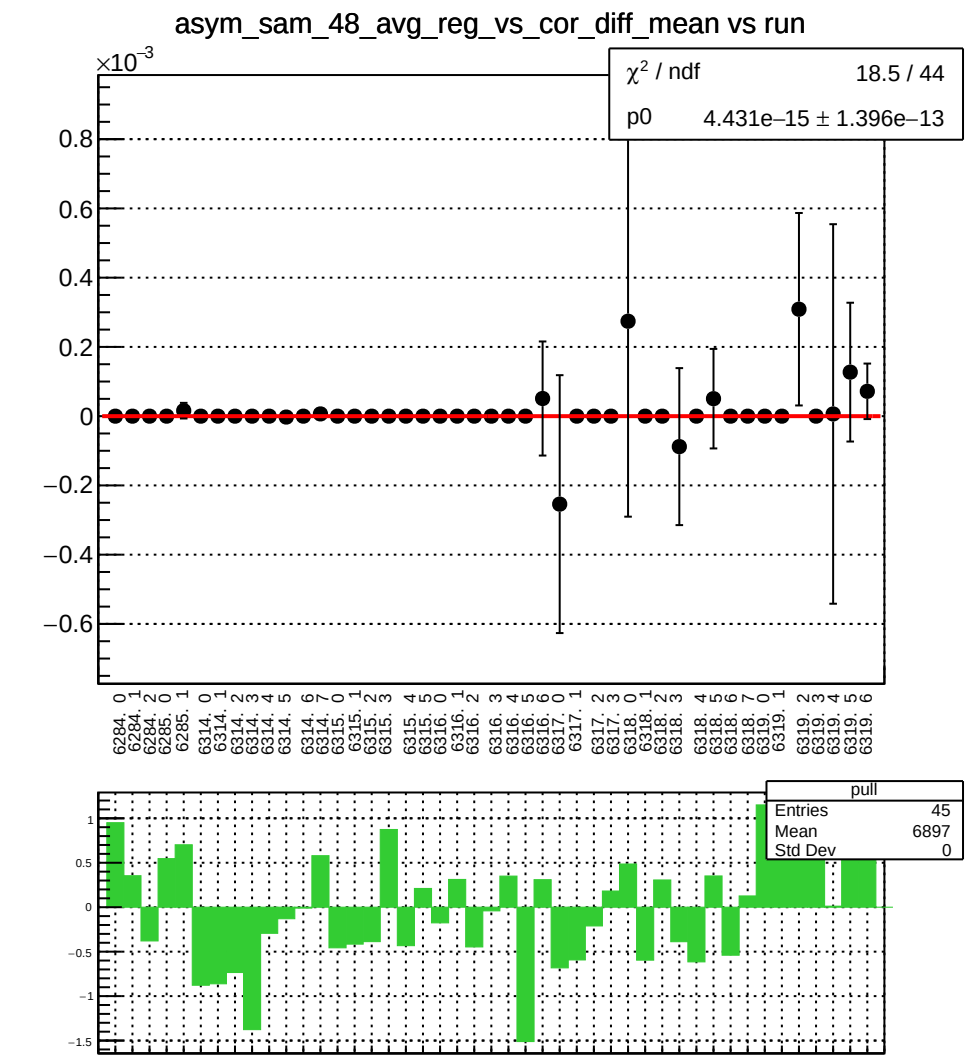

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 39.14 / 44
p0 −1694 ± 3467
pull
Entries 45
Mean −720.5
Std Dev 0

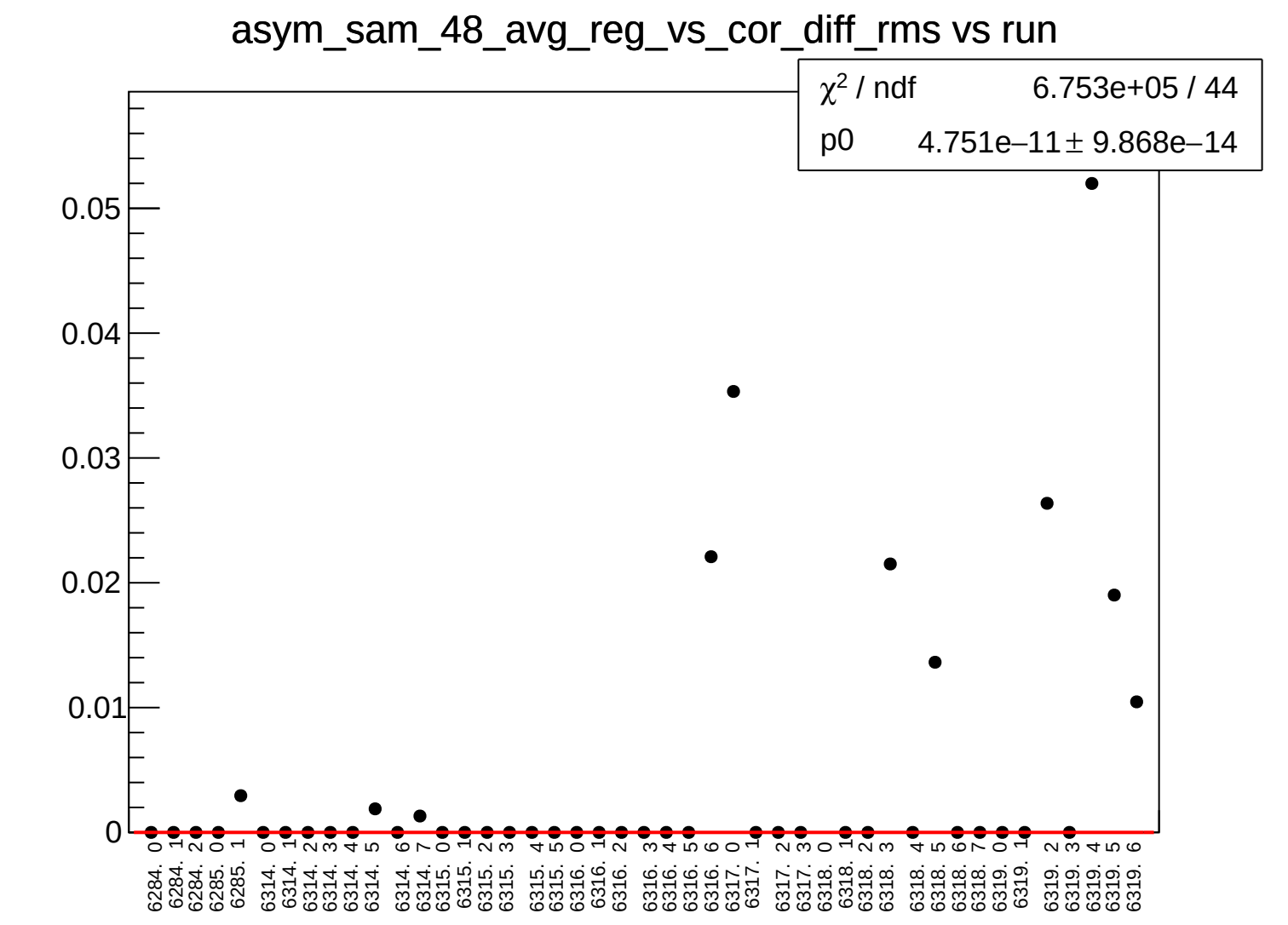

pull1D
Entries 45
Mean −0.001569
Std Dev 0.9326

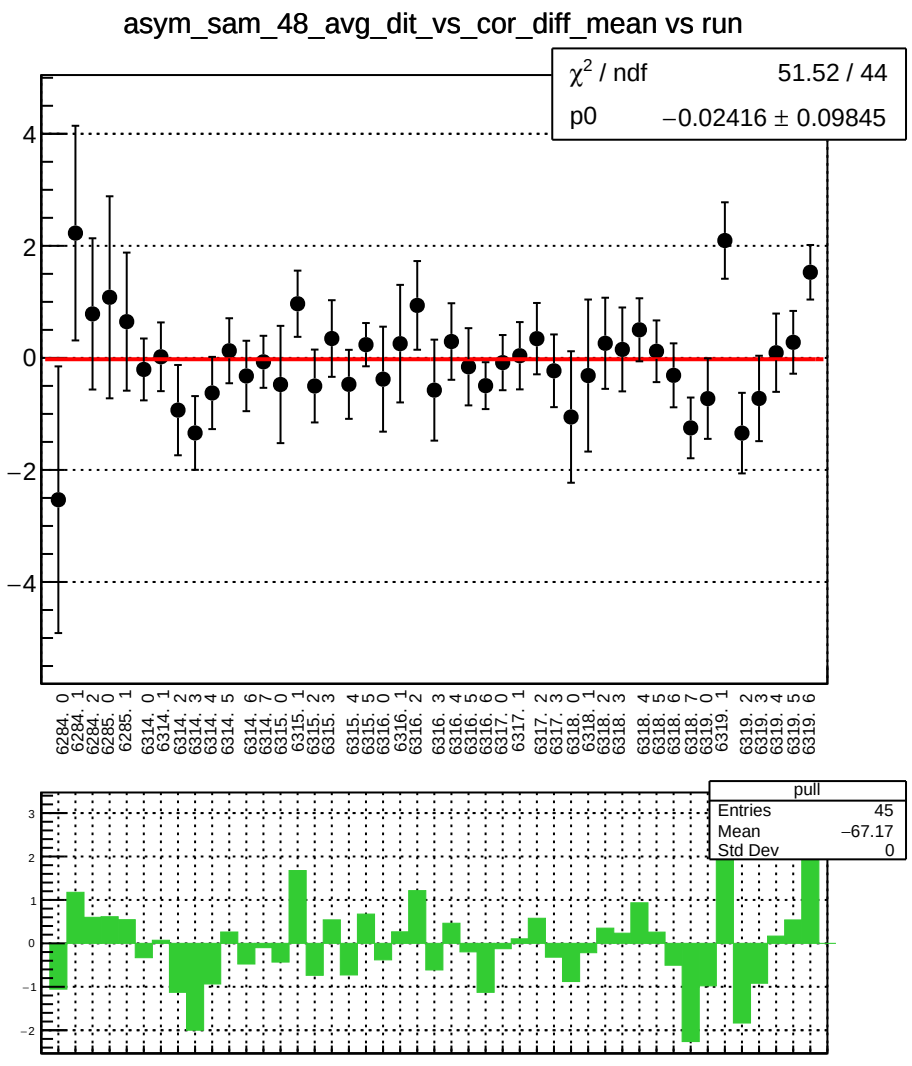

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2911 / 44
p0 2331 ± 2.452
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

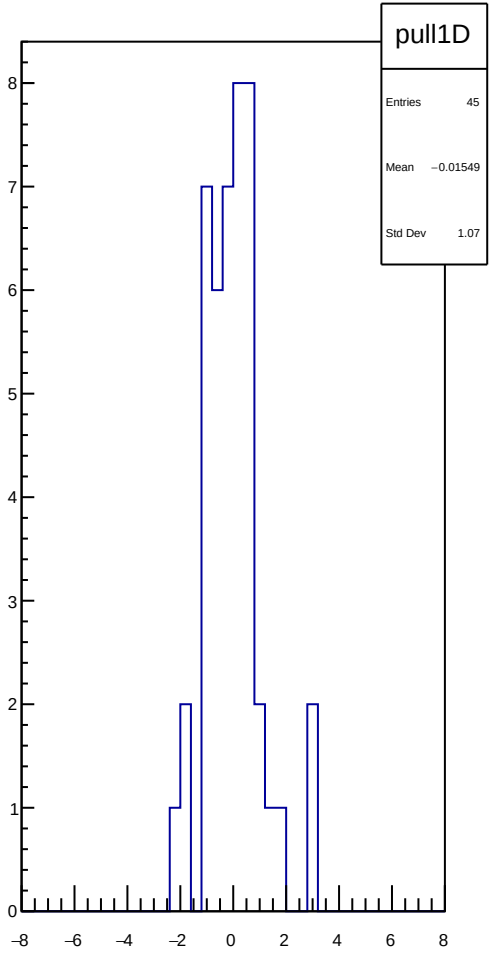

asym_sam_48_avg_mean vs run
χ² / ndf 37.74 / 44
p0 1431 ± 3442
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 711.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.001377
Std Dev 0.9158
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

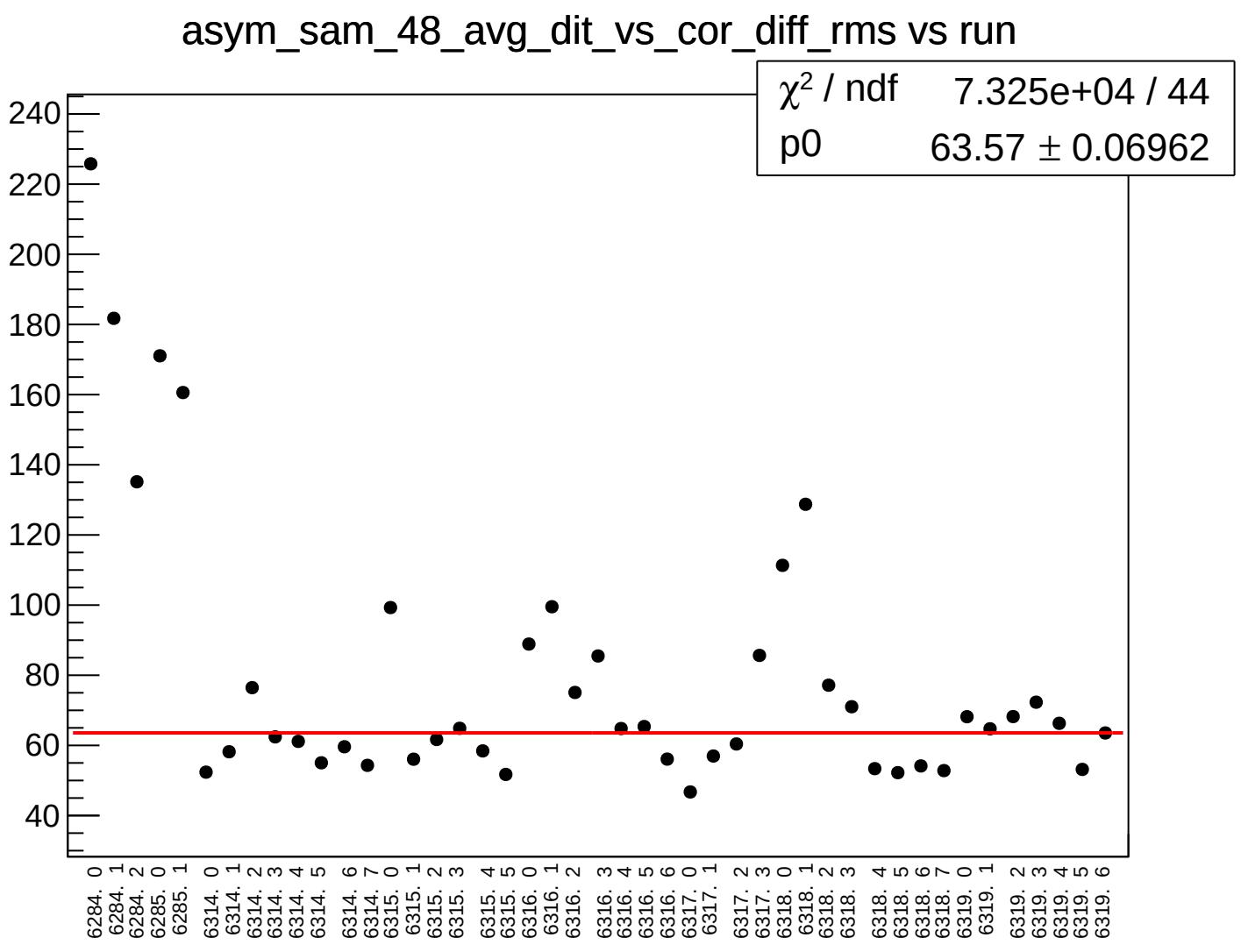

asym_sam_48_avg_rms vs run
χ² / ndf 2857 / 44
p0 2315 ± 2.434
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

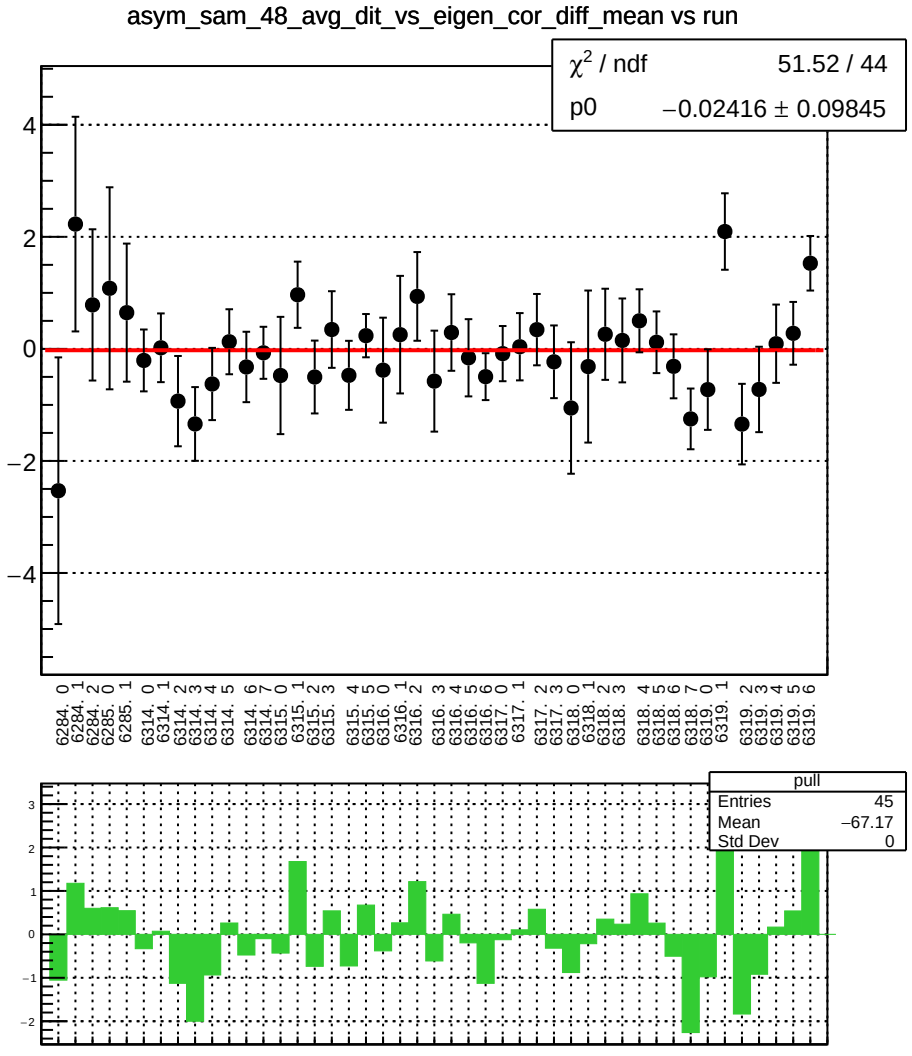

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 18.5 / 44
p0 4.431e−15 ± 1.396e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6897
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0003416
Std Dev 0.6411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

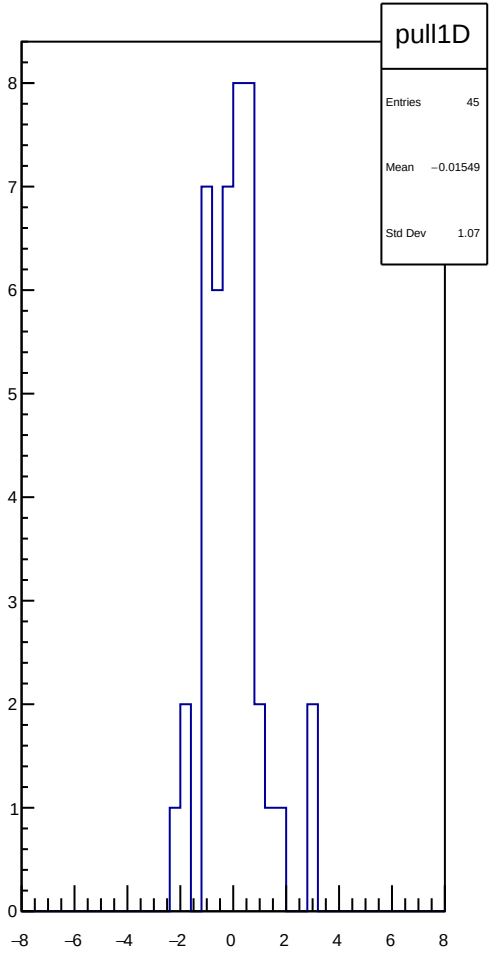

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.753e+05 / 44
p0 4.751e−11 ± 9.868e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

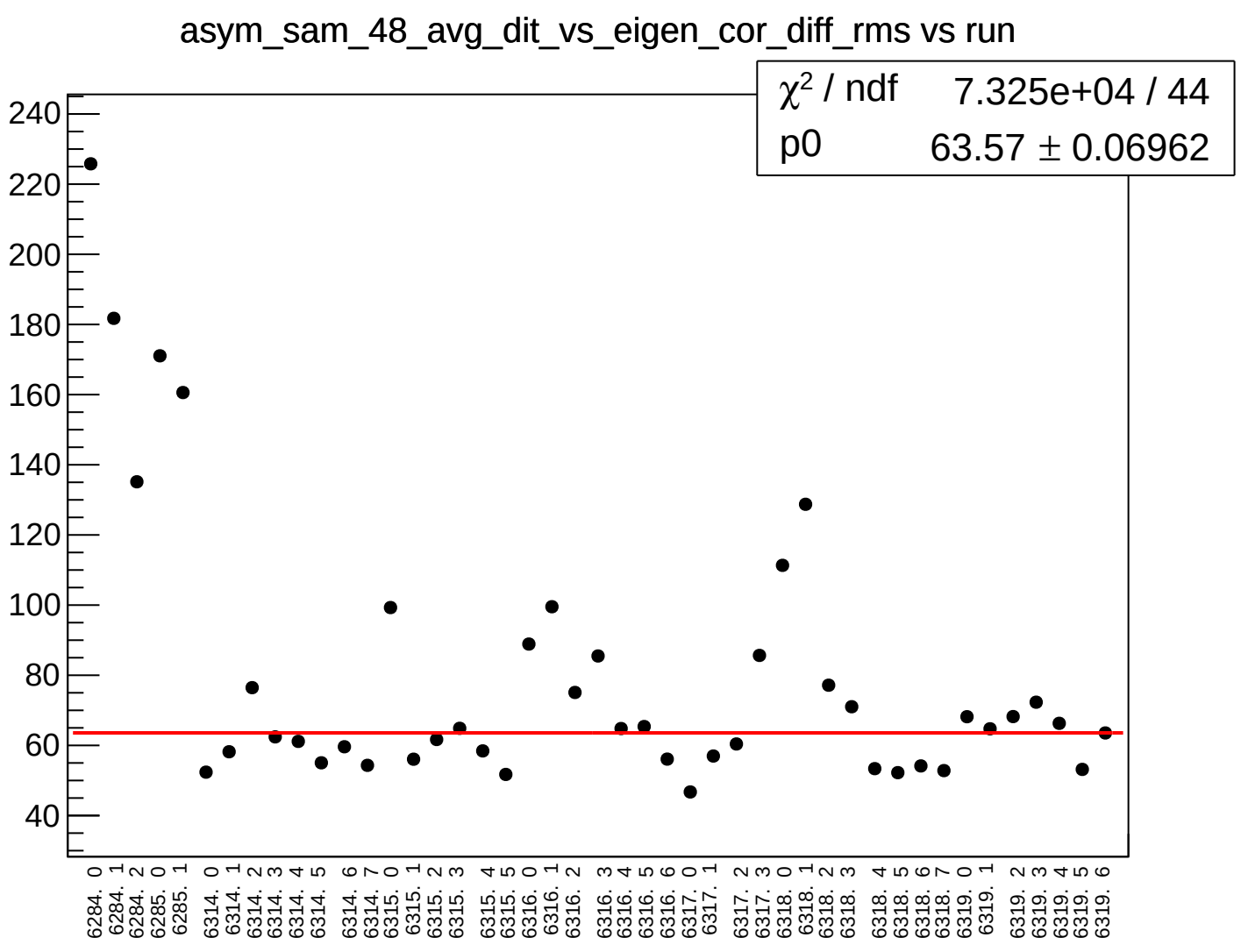

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.52 / 44
p0 −0.02416 ± 0.09845
pull
Entries 45
Mean −67.17
Std Dev 0

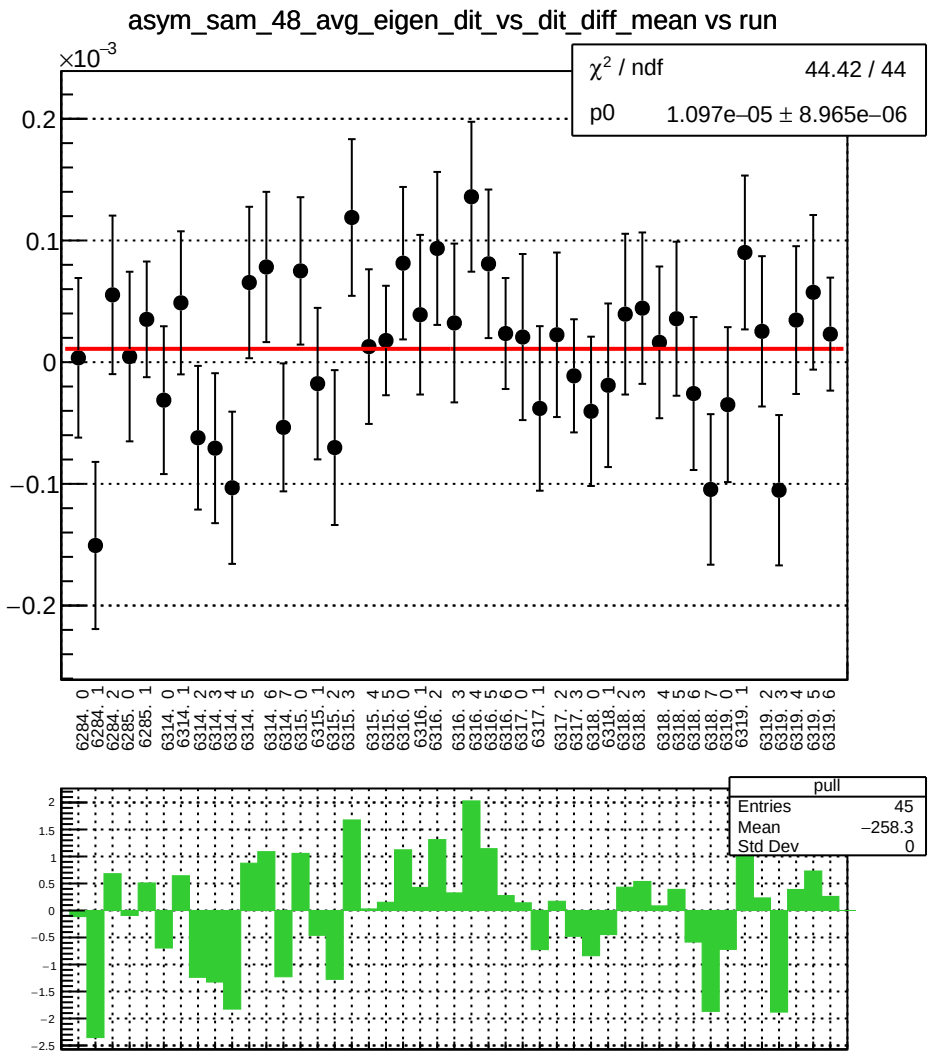

pull1D
Entries 45
Mean −0.01549
Std Dev 1.07

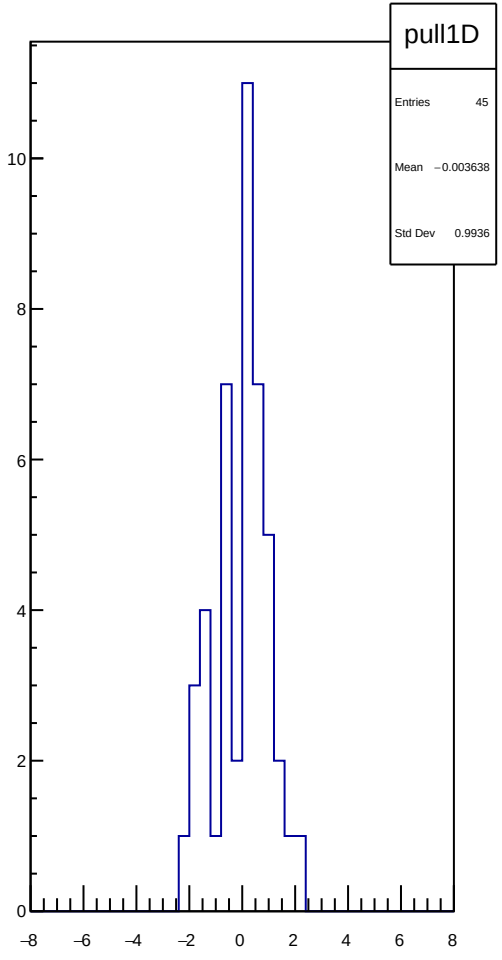

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.325e+04 / 44
p0 63.57 ± 0.06962
240
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

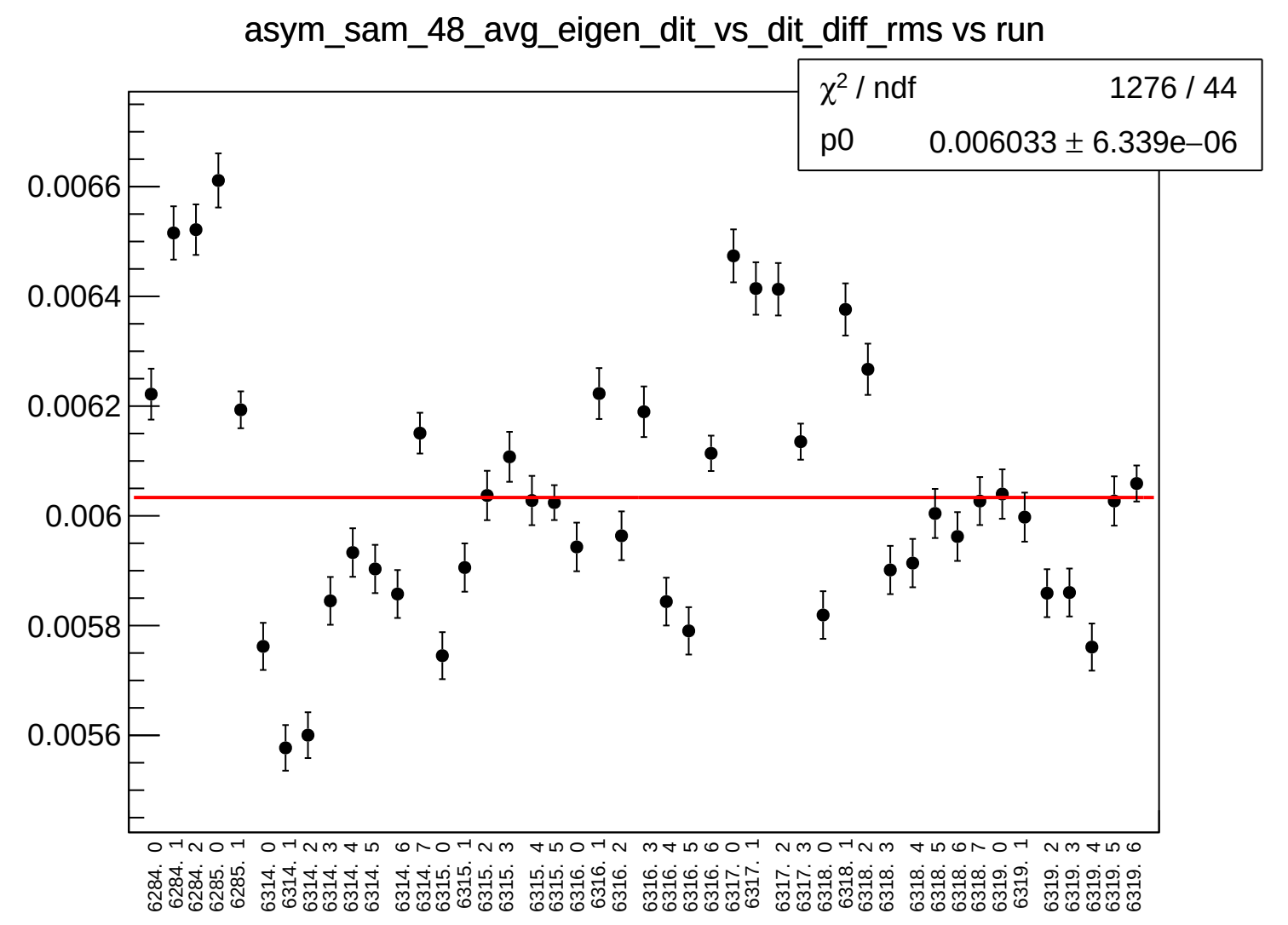

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.52 / 44
p0 −0.02416 ± 0.09845
pull
Entries 45
Mean −67.17
Std Dev 0


pull1D
Entries 45
Mean −0.01549
Std Dev 1.07

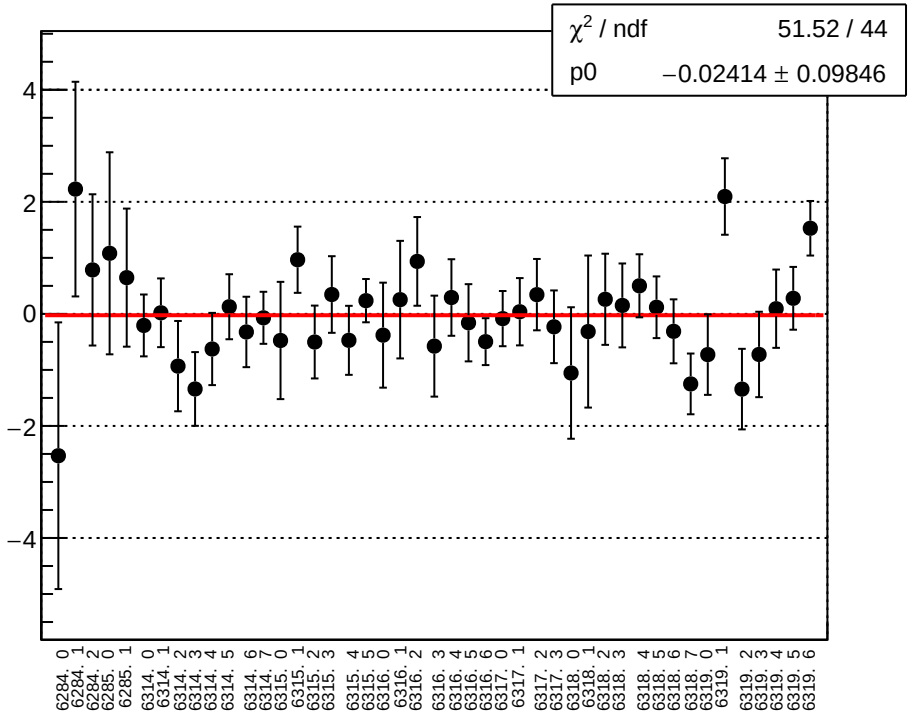

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.325e+04 / 44
p0 63.57 ± 0.06962
240
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

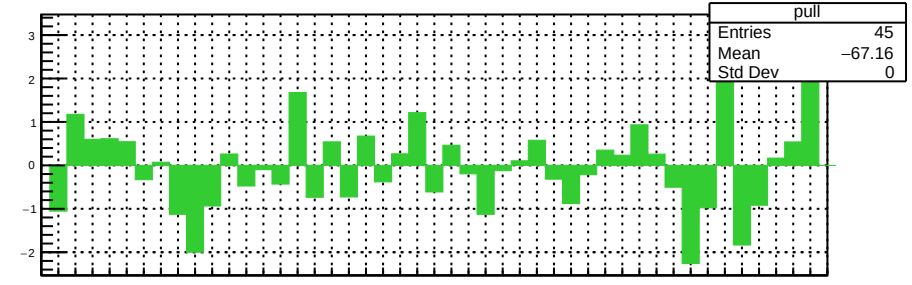

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.42 / 44
p0 1.097e−05 ± 8.965e−06
0.2
0.1
0
−0.1
−0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −258.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

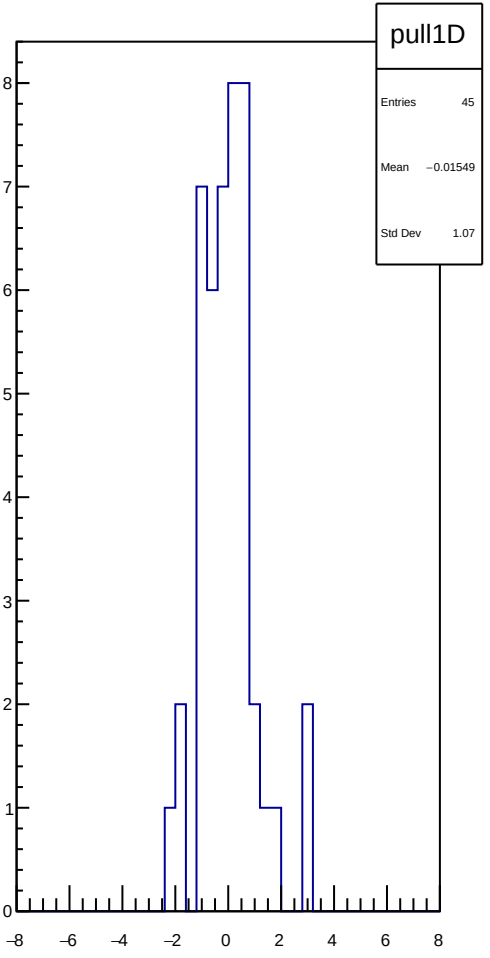

pull1D
Entries 45
Mean −0.003638
Std Dev 0.9936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

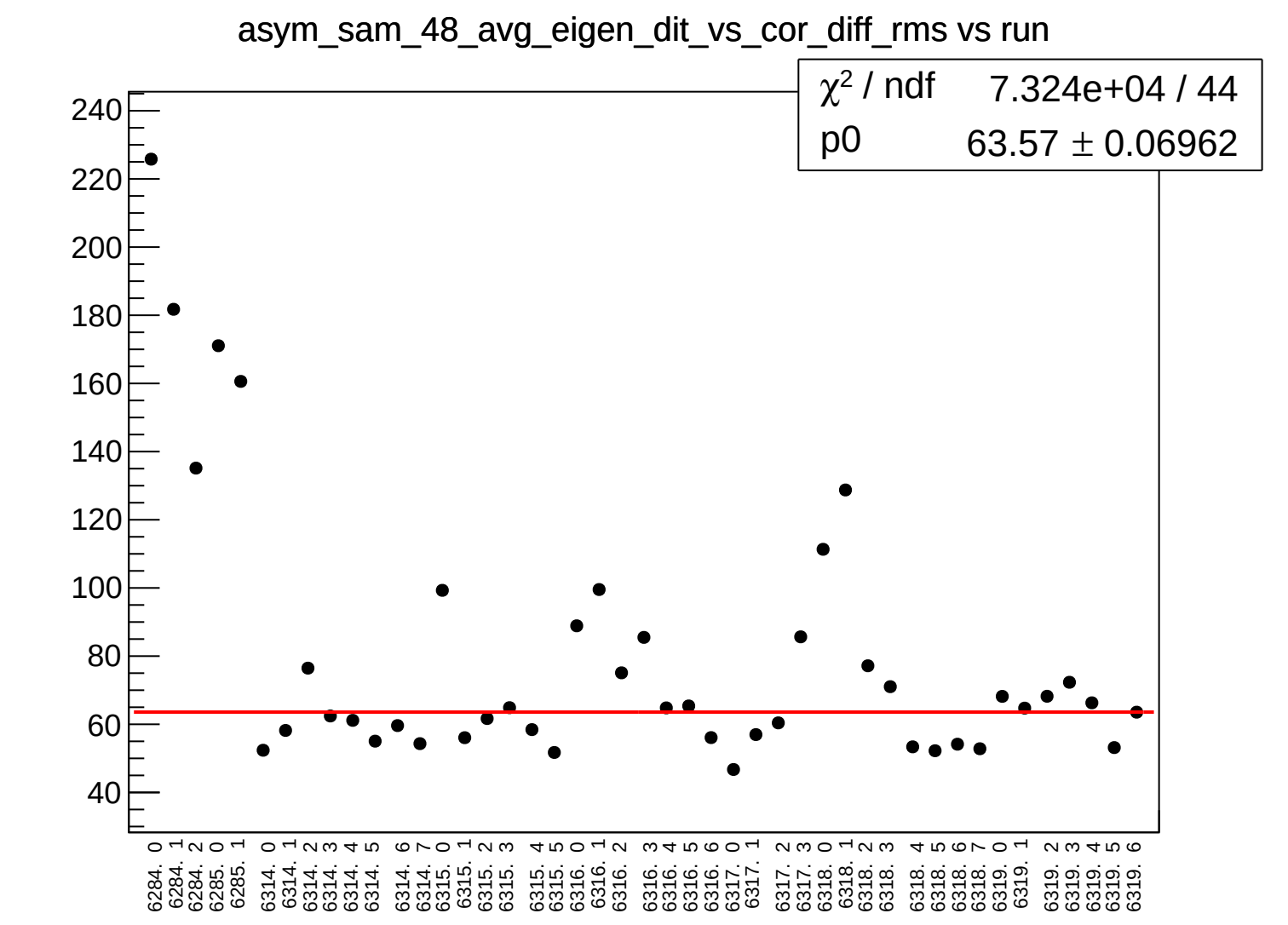

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1276 / 44
p0 0.006033 ± 6.339e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

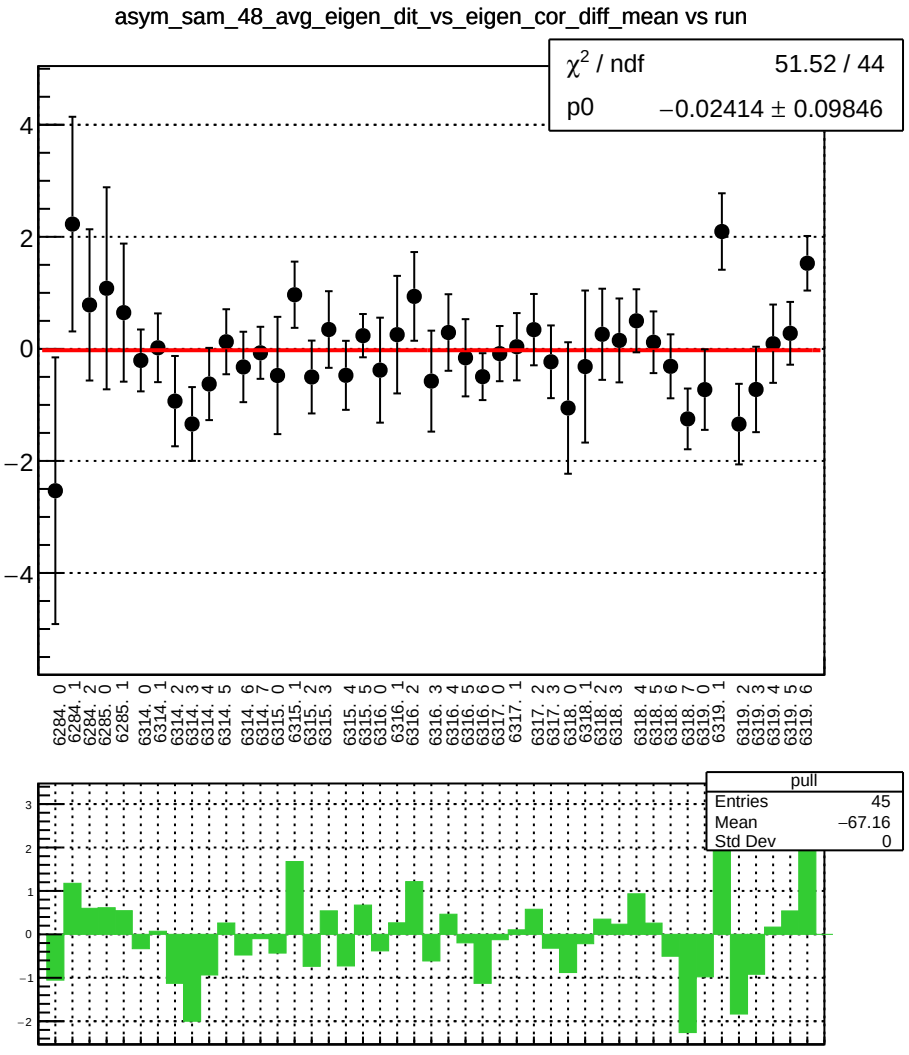
asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run

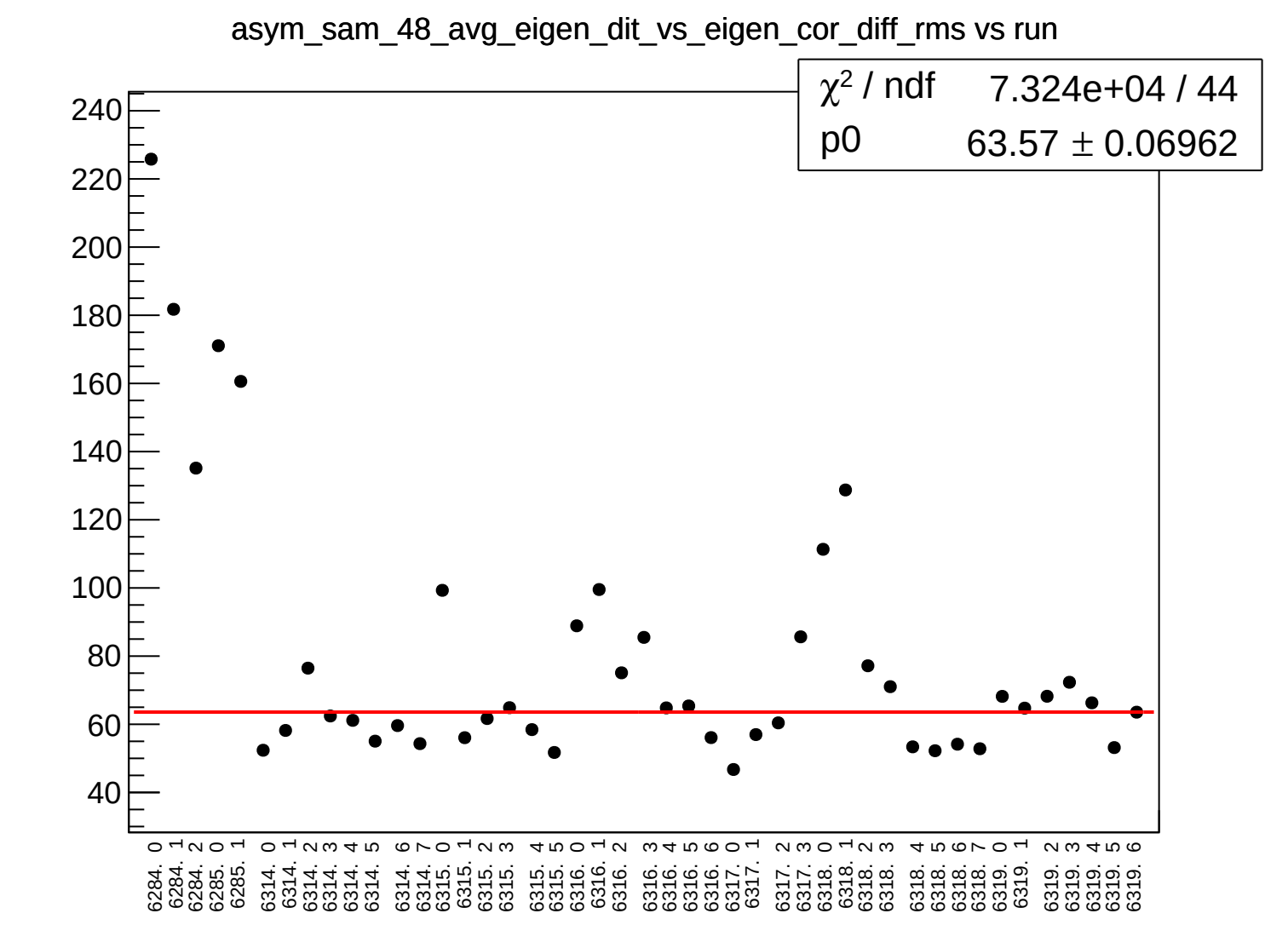


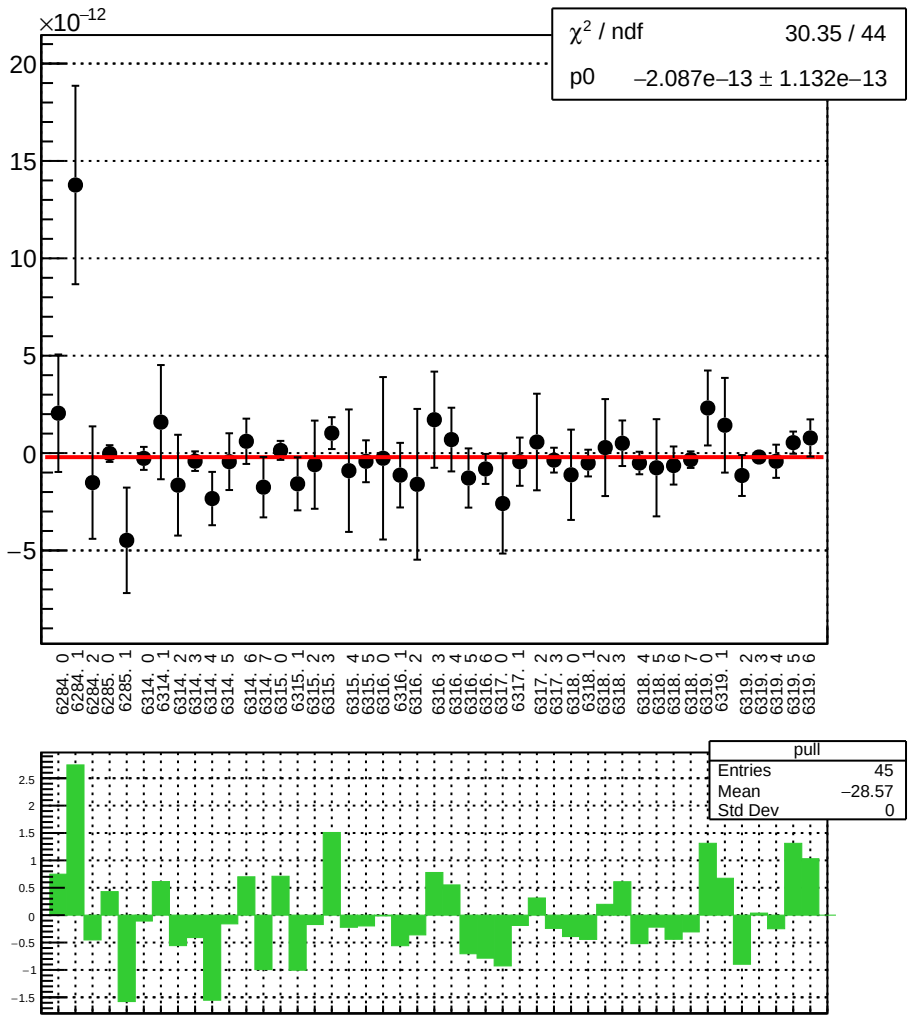


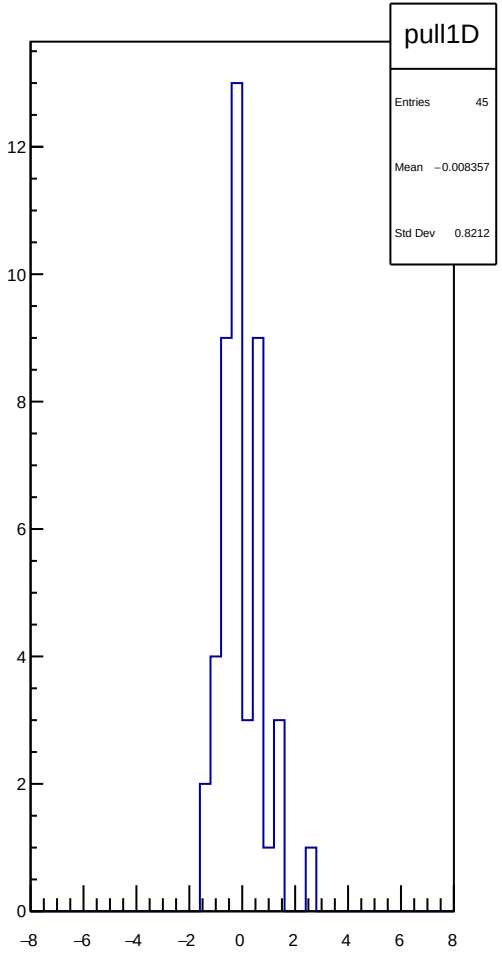


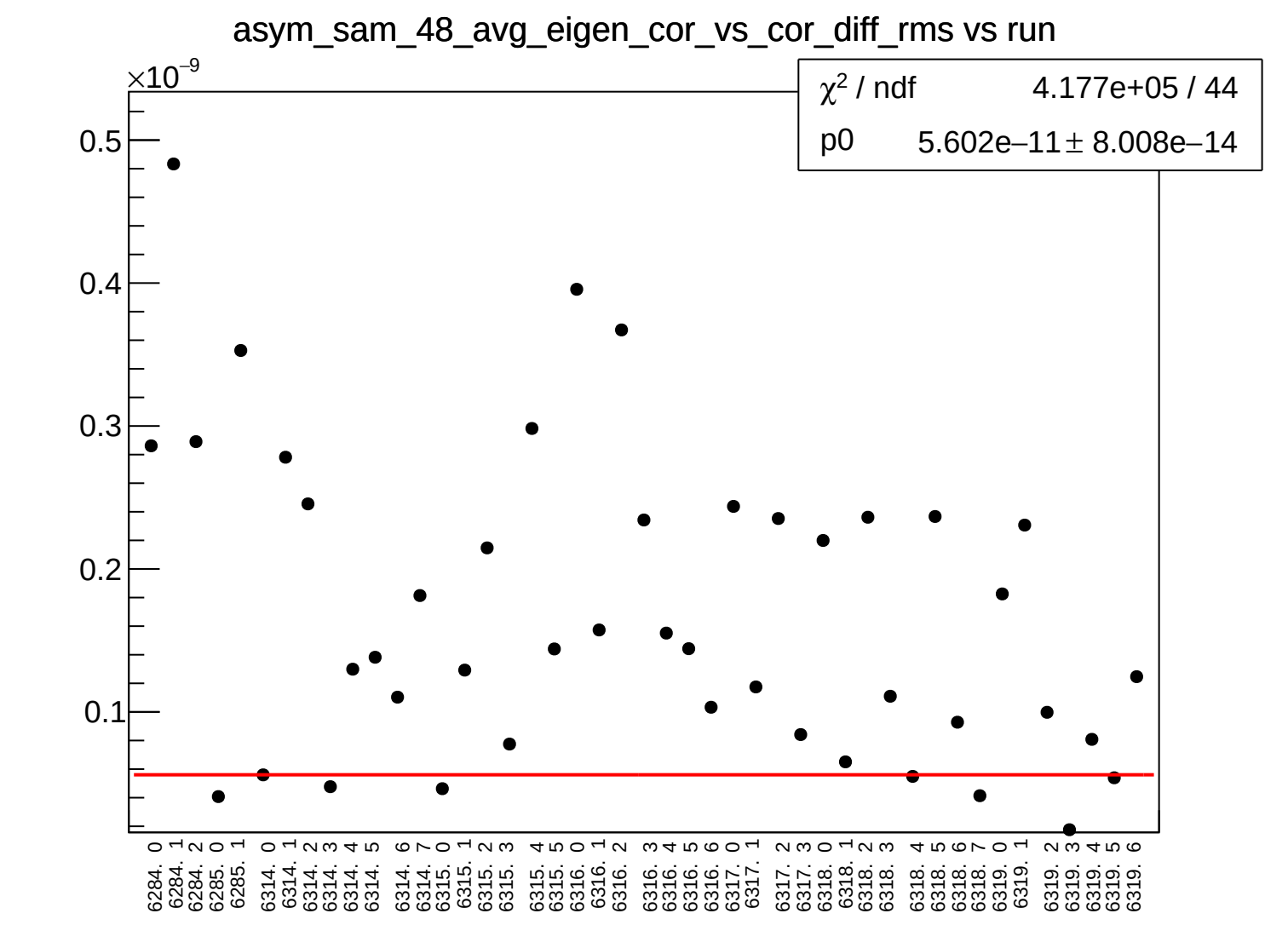

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.324e+04 / 44
p0 63.57 ± 0.06962
240
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

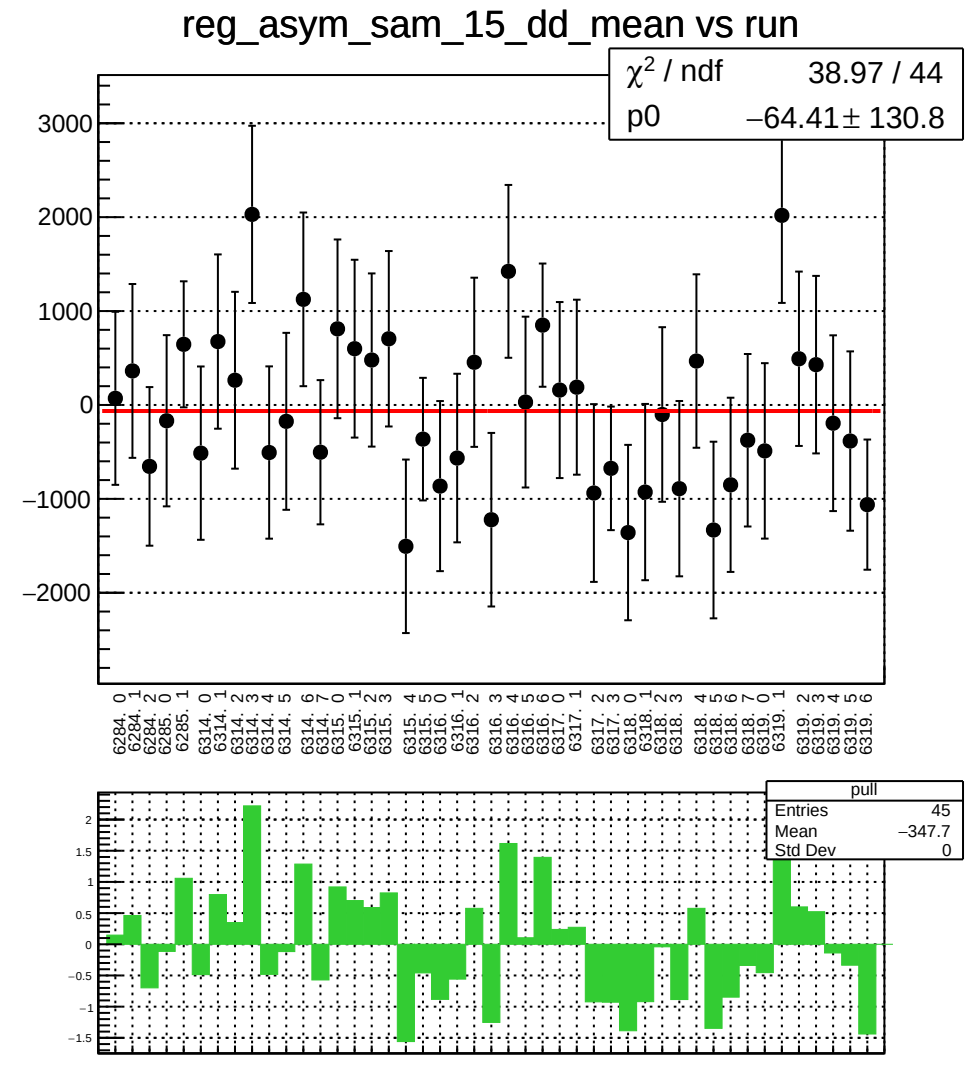

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.52 / 44
p0 −0.02414 ± 0.09846
pull
Entries 45
Mean −67.16
Std Dev 0
pull1D
Entries 45
Mean −0.01549
Std Dev 1.07

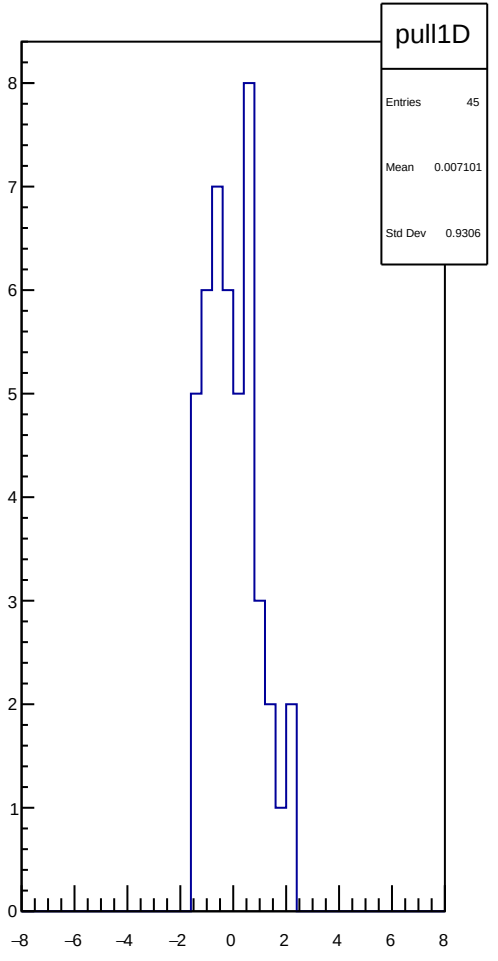

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.324e+04 / 44
p0 63.57 ± 0.06962
240
220
200
180
160
140
120
100
80
60
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

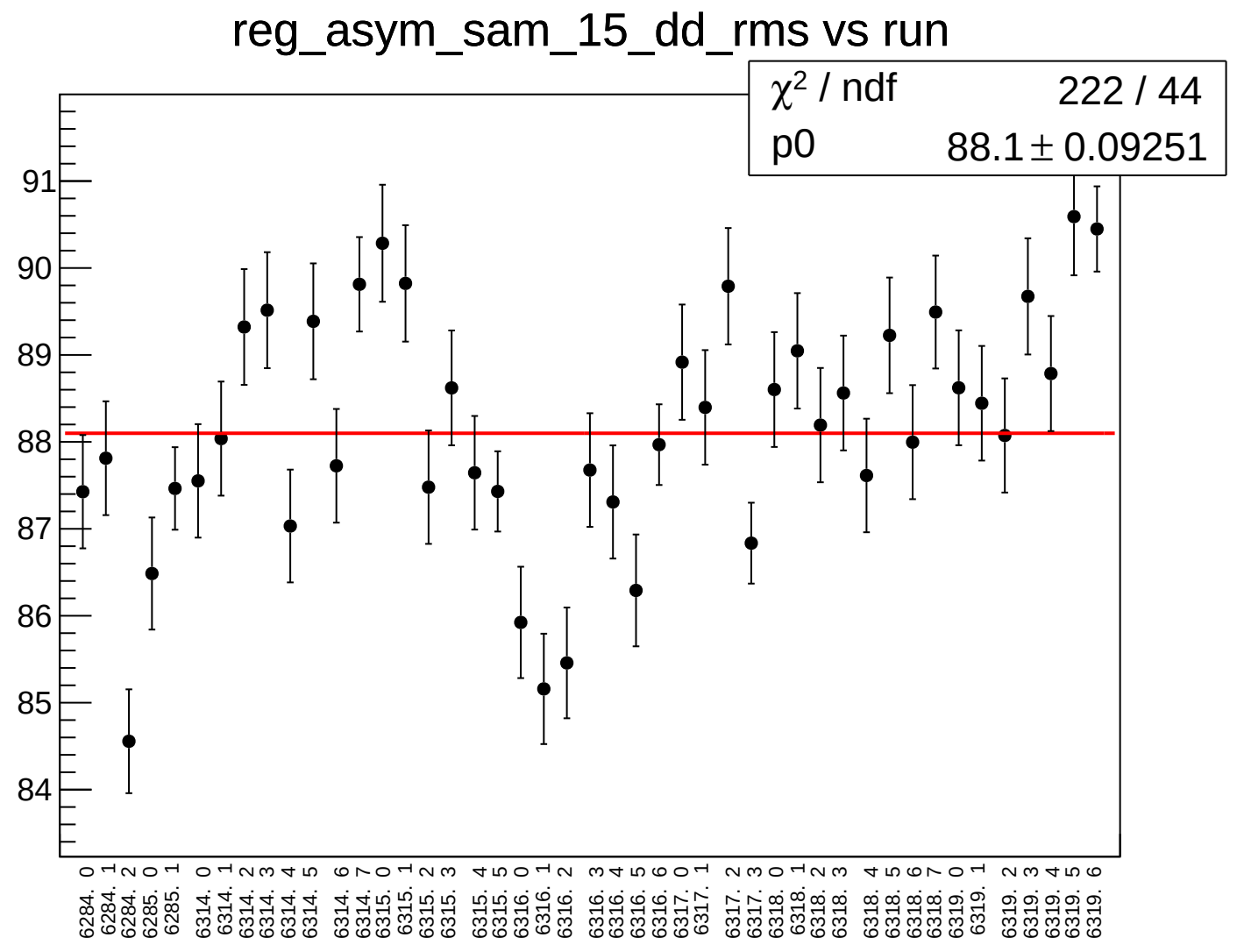

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.35 / 44
p0 −2.087e−13 ± 1.132e−13
pull
Entries 45
Mean −28.57
Std Dev 0

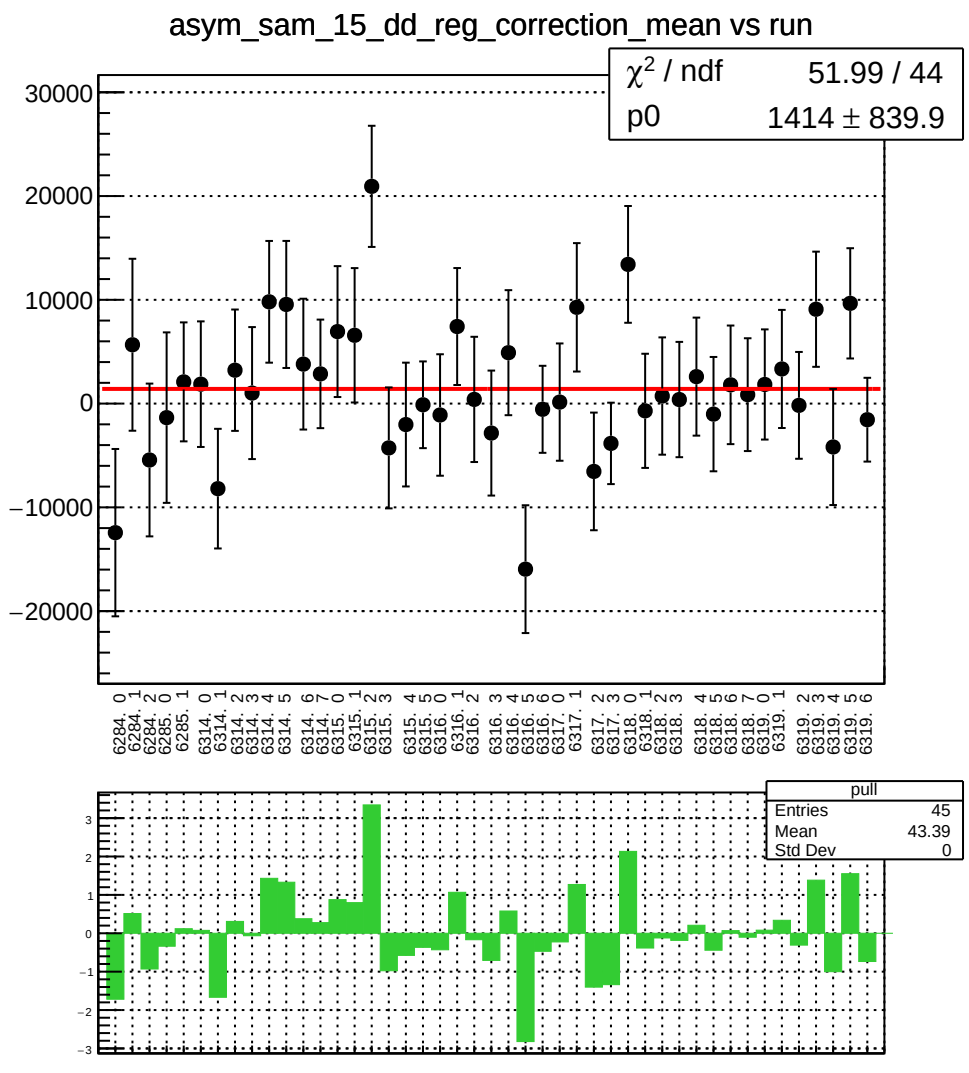

pull1D
Entries 45
Mean −0.008357
Std Dev 0.8212

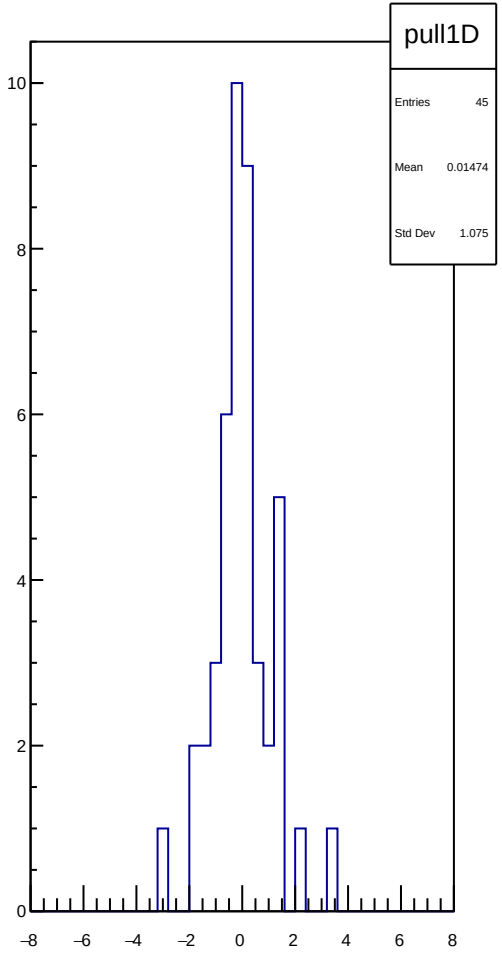

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.177e+05 / 44
p0 5.602e−11 ± 8.008e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

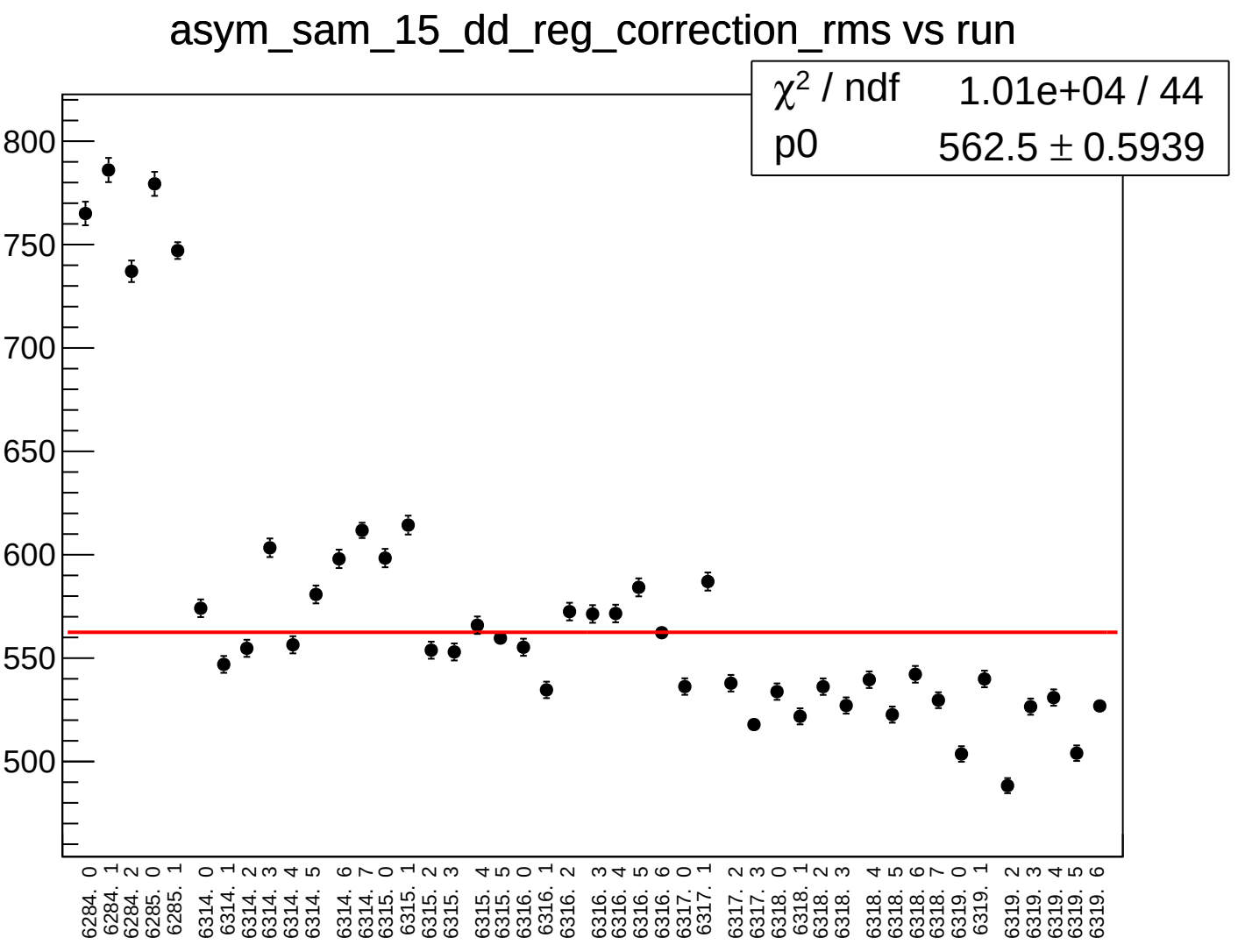

reg_asym_sam_15_dd_mean vs run
χ² / ndf 38.97 / 44
p0 −64.41 ± 130.8
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −347.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

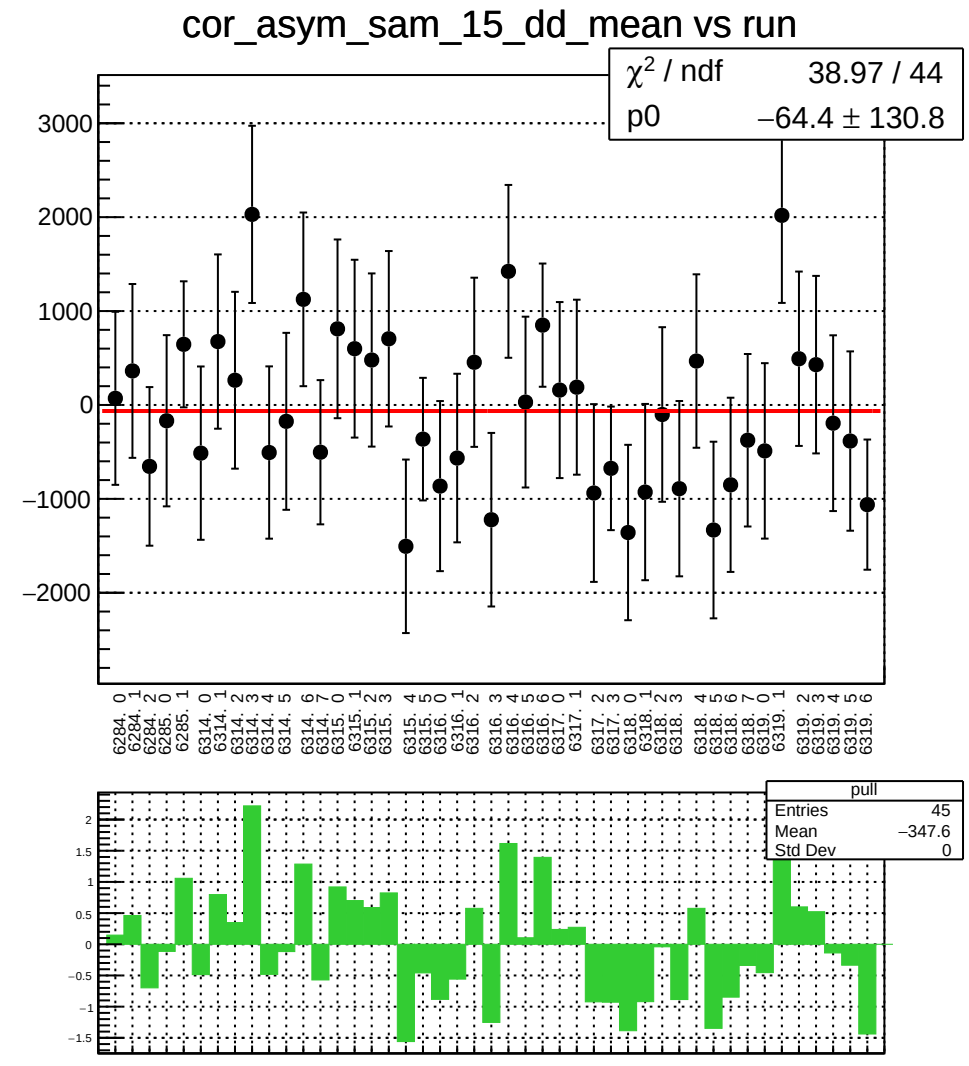

pull1D
Entries 45
Mean 0.007101
Std Dev 0.9306
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

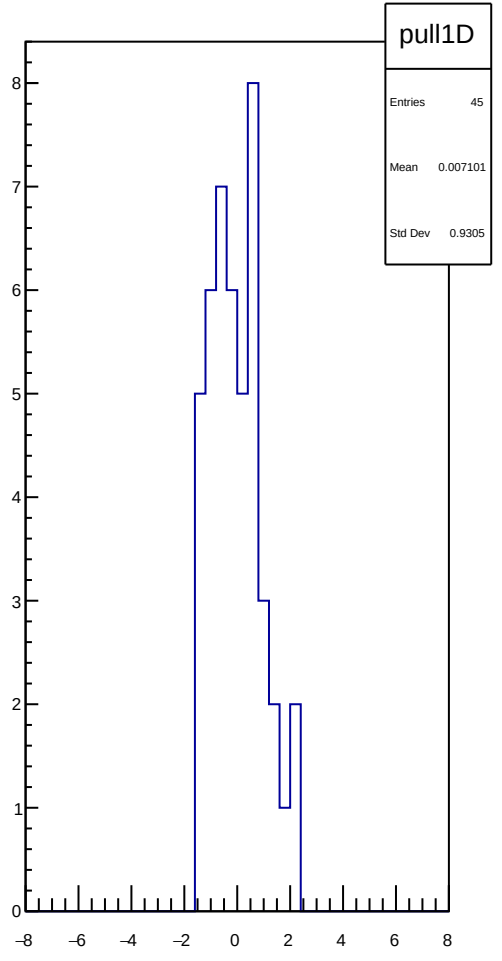

reg_asym_sam_15_dd_rms vs run
χ² / ndf 222 / 44
p0 88.1 ± 0.09251
91
90
89
88
87
86
85
84
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

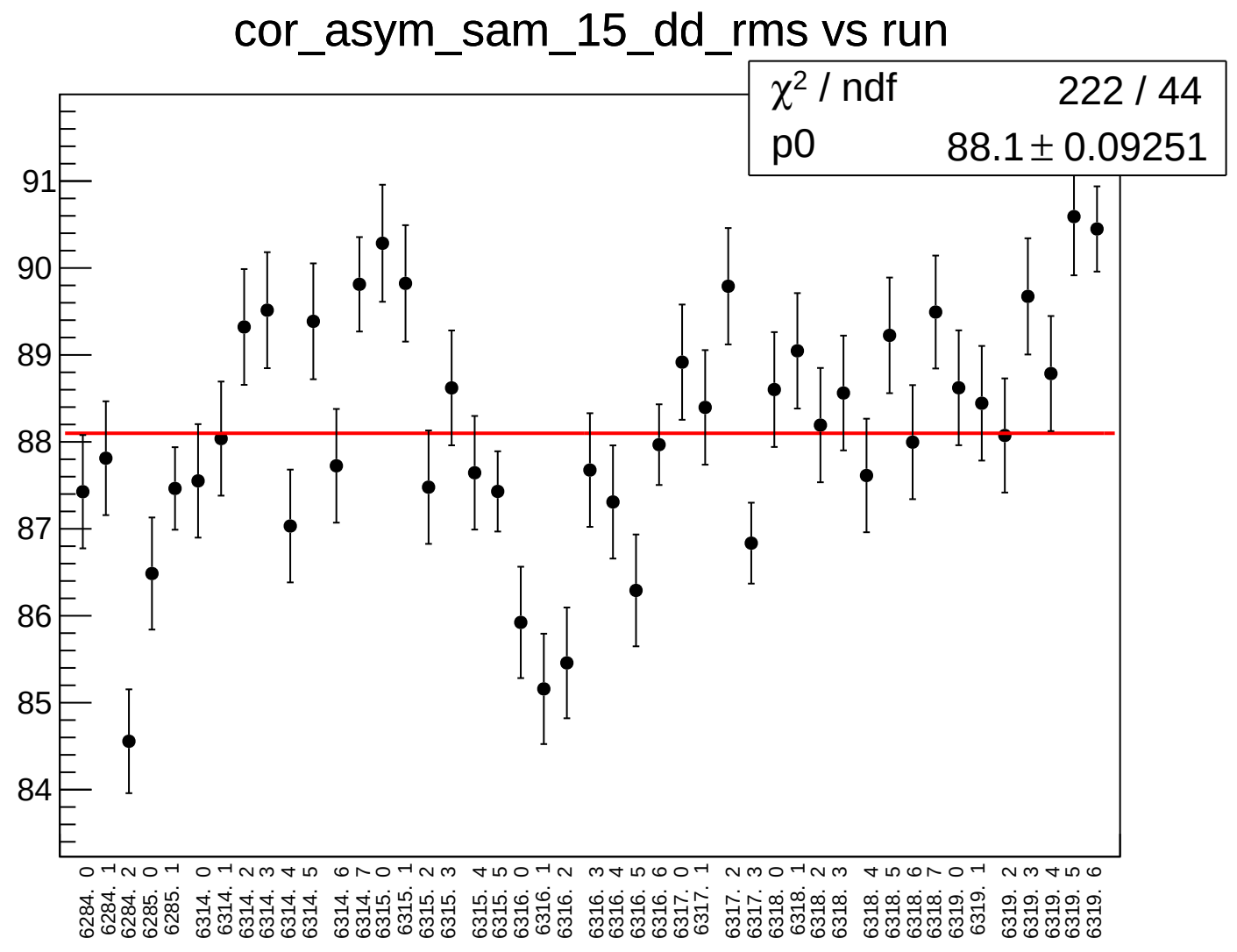

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 51.99 / 44
p0 1414 ± 839.9
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.39
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01474
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.01e+04 / 44
p0 562.5 ± 0.5939
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_15_dd_mean vs run
χ² / ndf 38.97 / 44
p0 −64.4 ± 130.8
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −347.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.007101
Std Dev 0.9305
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_dd_rms vs run
χ² / ndf 222 / 44
p0 88.1 ± 0.09251
91
90
89
88
87
86
85
84
6284. 0
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6314. 6
6314. 7
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6316. 5
6316. 6
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6317. 2
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6318. 0
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6318. 2
6318. 3
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6319. 2
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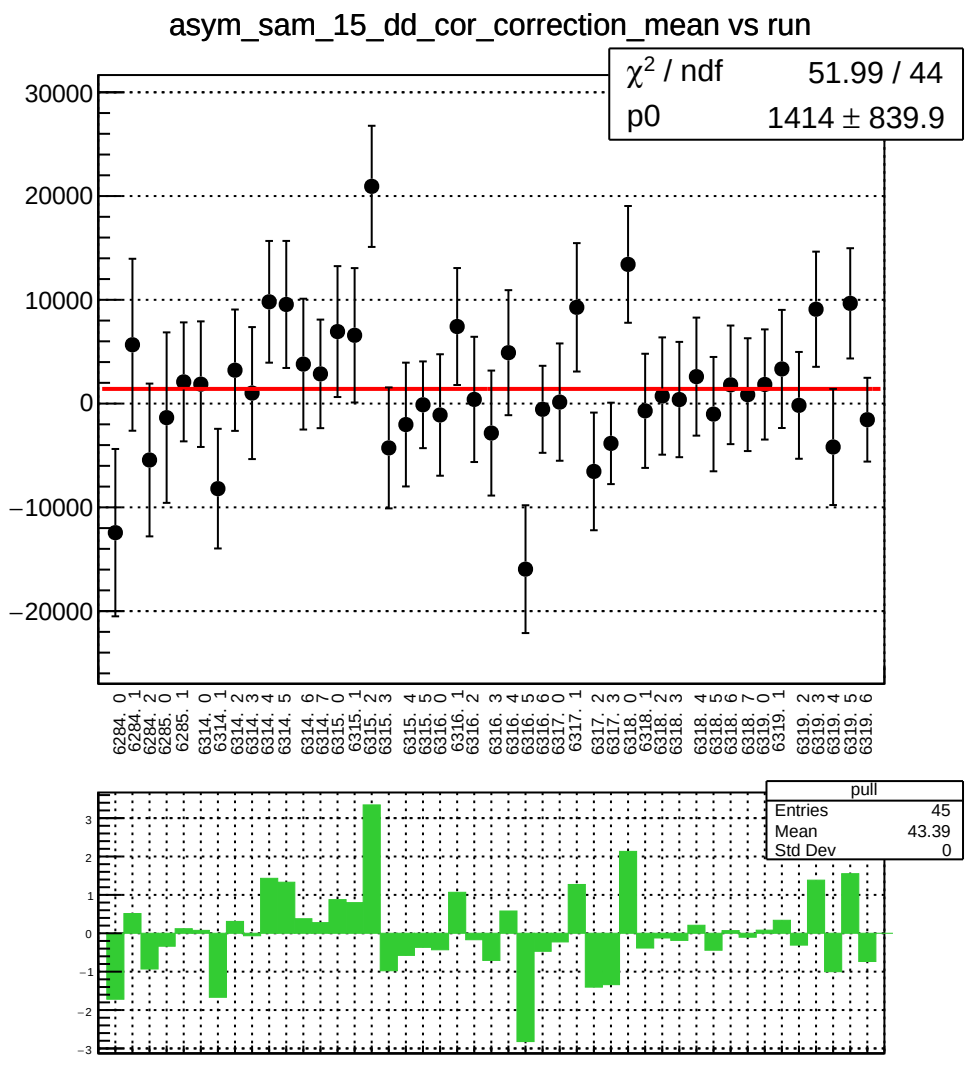
asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 51.99 / 44
p0 1414 ± 839.9
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 5
6314. 6
6314. 7
6315. 0
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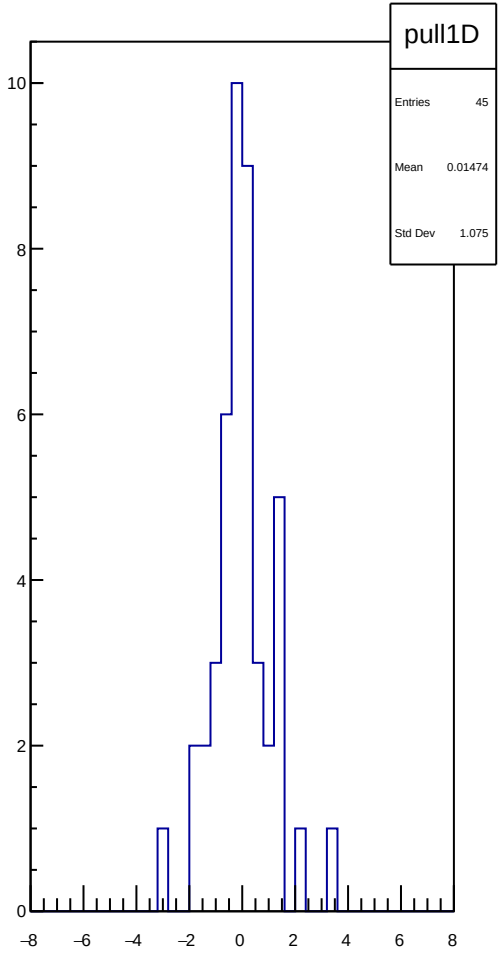
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.39
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01474
Std Dev 1.075
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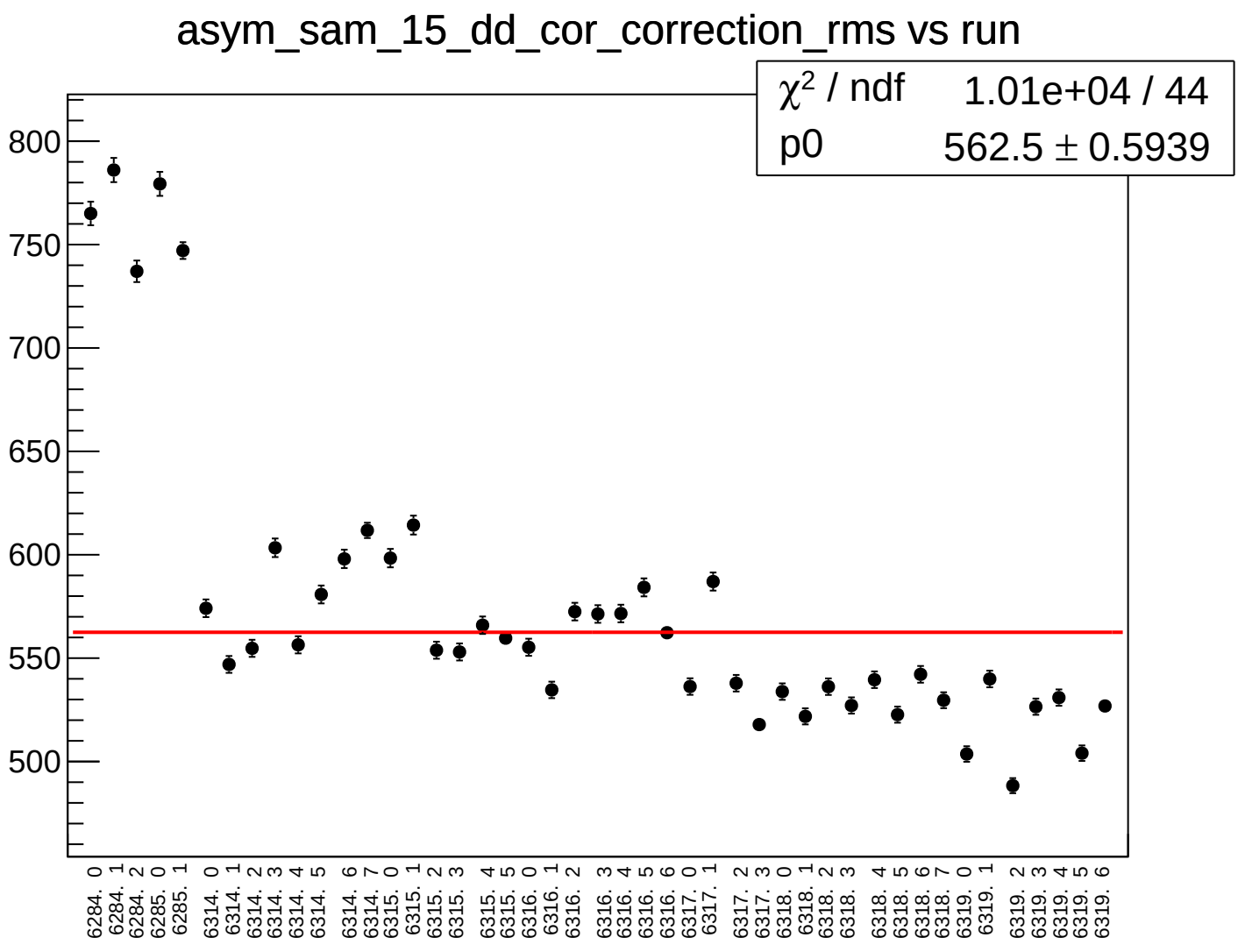
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.01e+04 / 44
p0 562.5 ± 0.5939
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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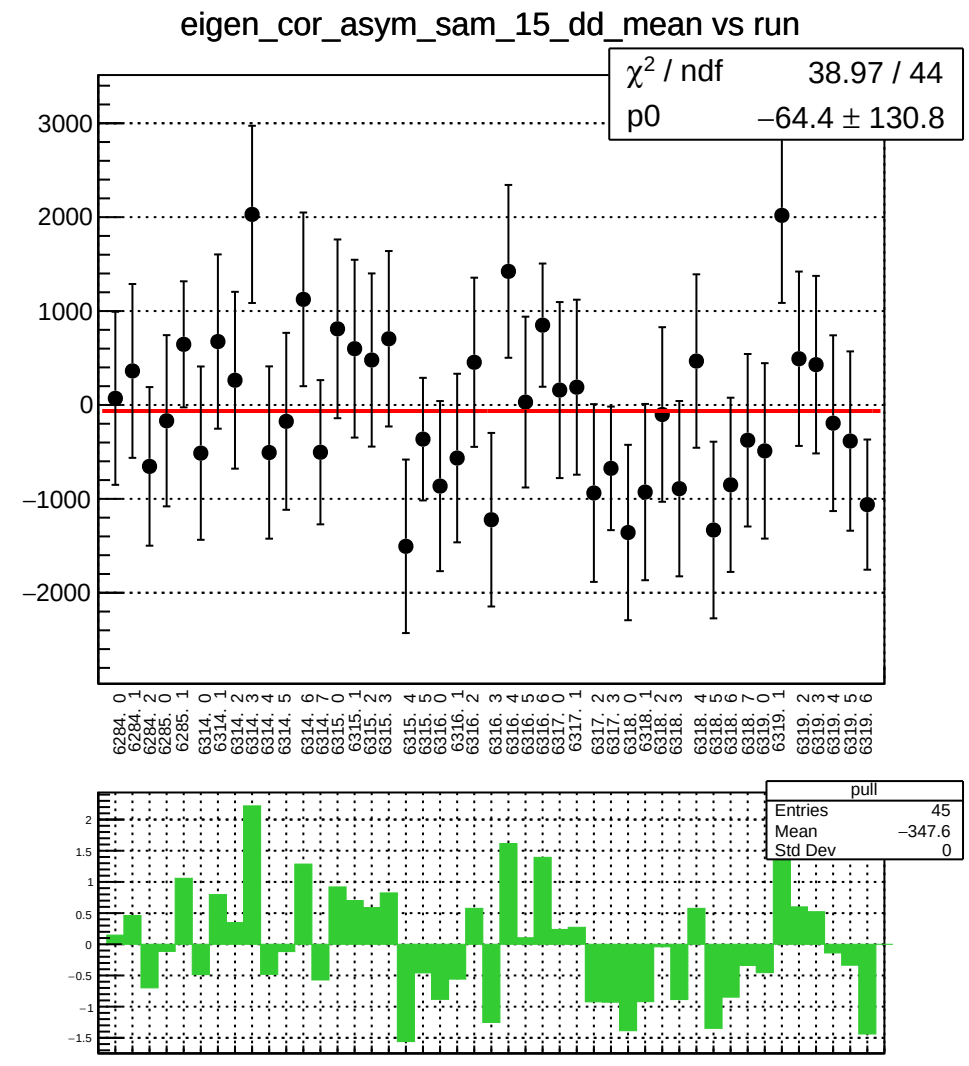
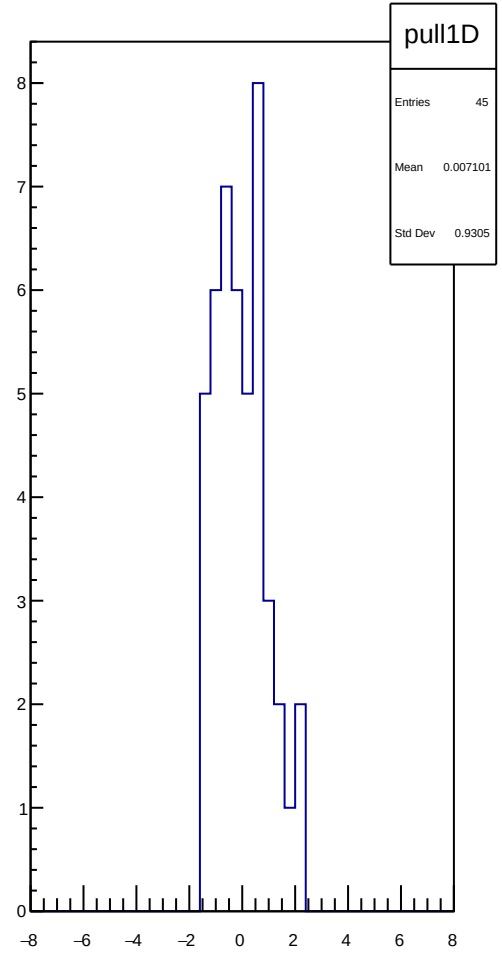

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 38.97 / 44
p0 −64.4 ± 130.8
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −347.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.007101
Std Dev 0.9305
8
7
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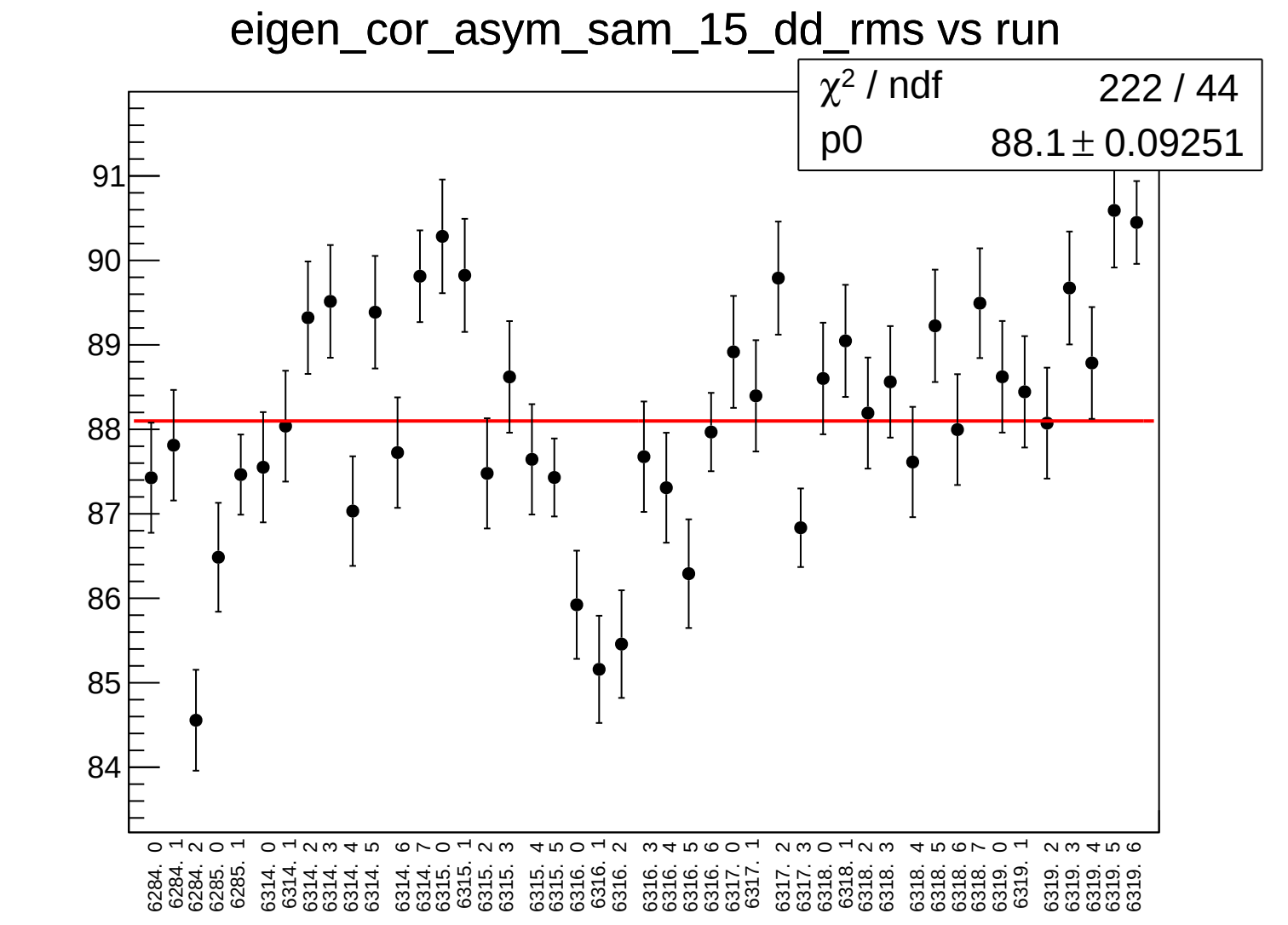
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 222 / 44
p0 88.1 ± 0.09251
91
90
89
88
87
86
85
84
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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6319. 2
6319. 3
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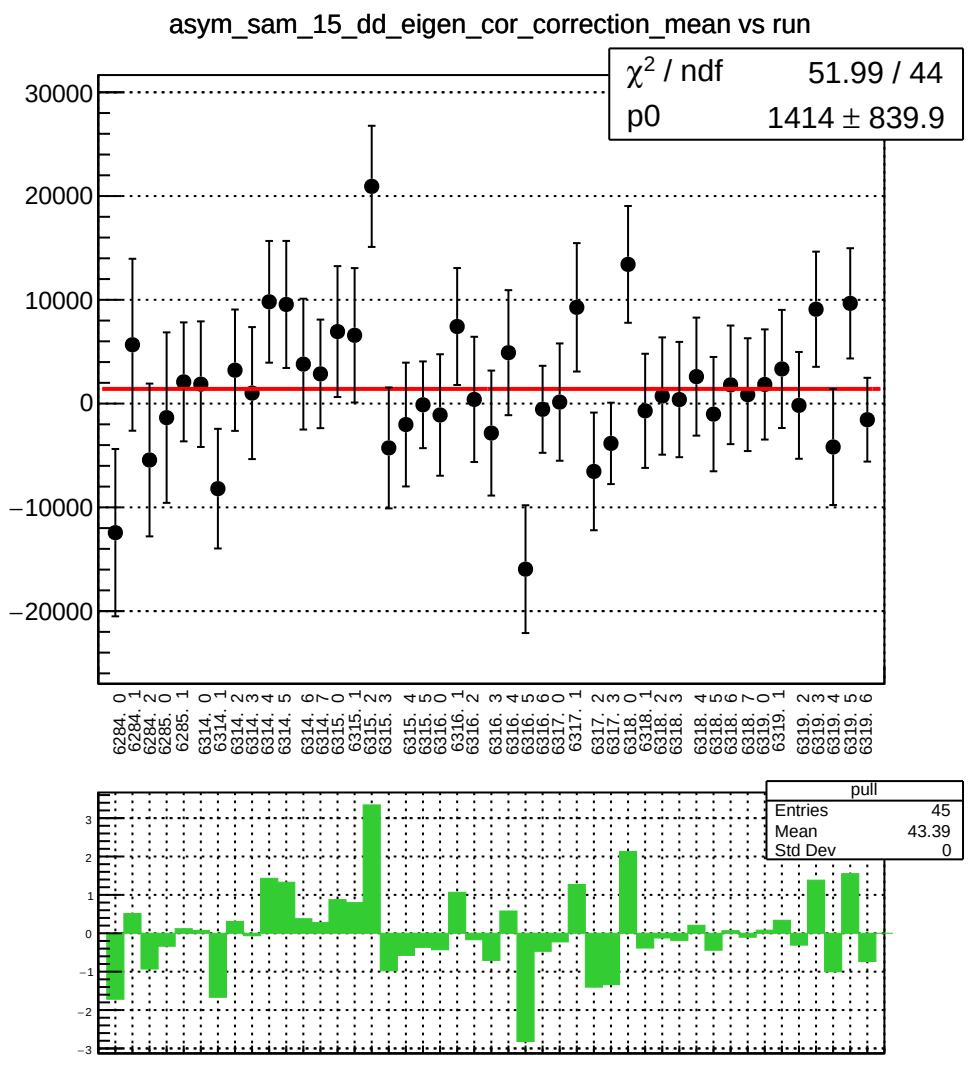
6319. 5
6319. 6


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 51.99 / 44
p0 1414 ± 839.9
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6315. 0
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6316. 0
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6318. 3
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6318. 5
6318. 6
6318. 7
6319. 0
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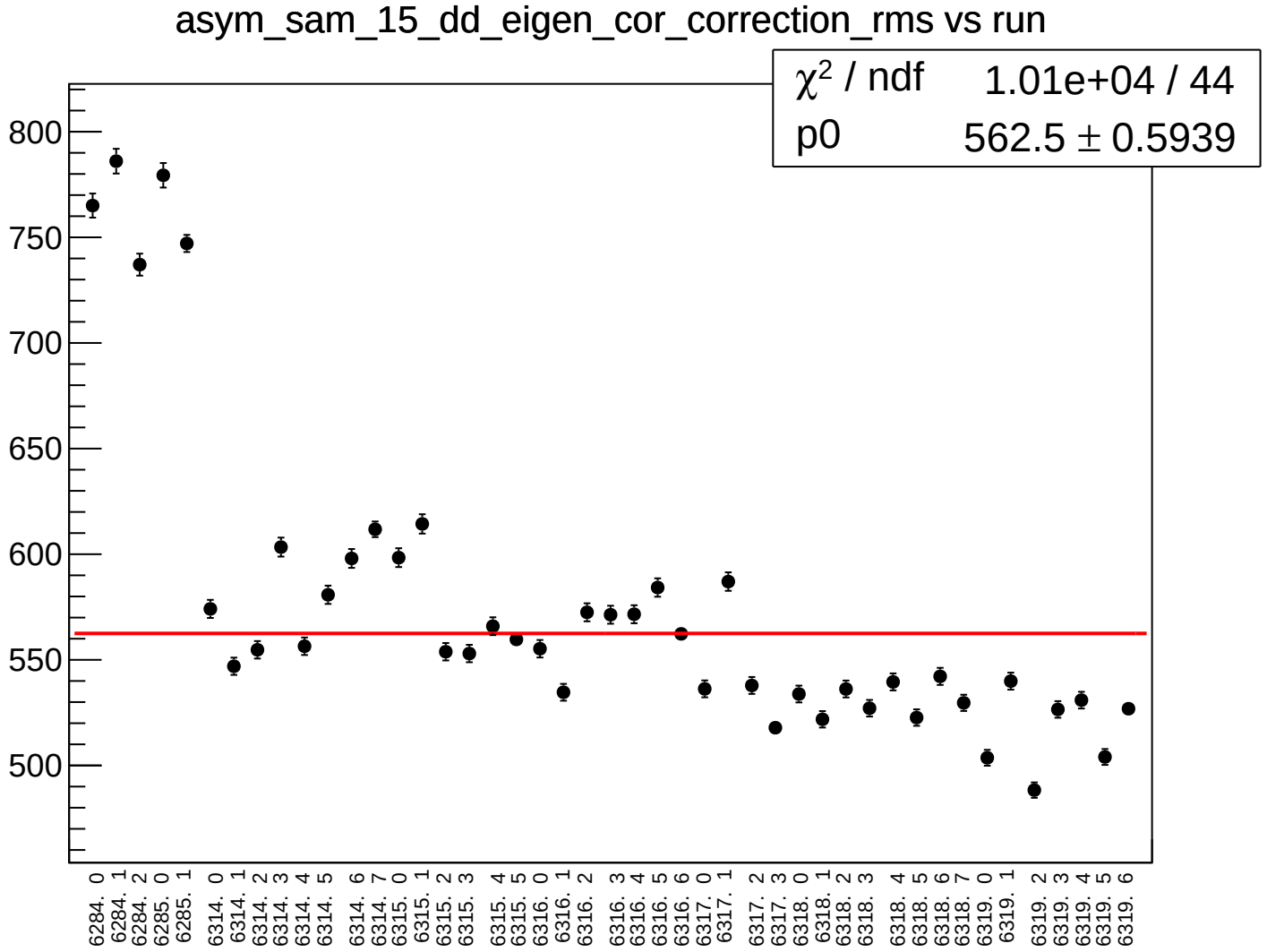
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 43.39
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01474
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.01e+04 / 44
p0 562.5 ± 0.5939
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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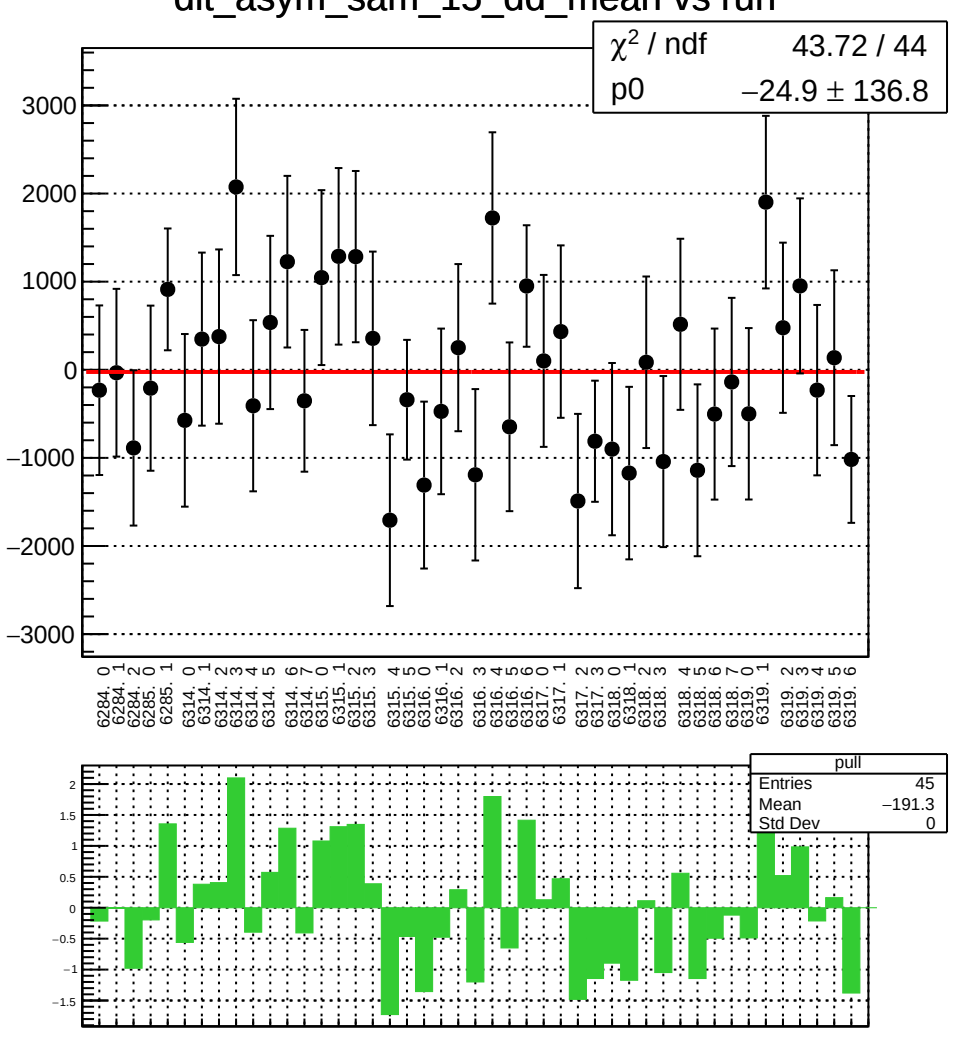
6319. 6


dit_asym_sam_15_dd_mean vs run
χ² / ndf 43.72 / 44
p0 −24.9 ± 136.8
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6316. 0
6316. 1
6316. 2
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6316. 4
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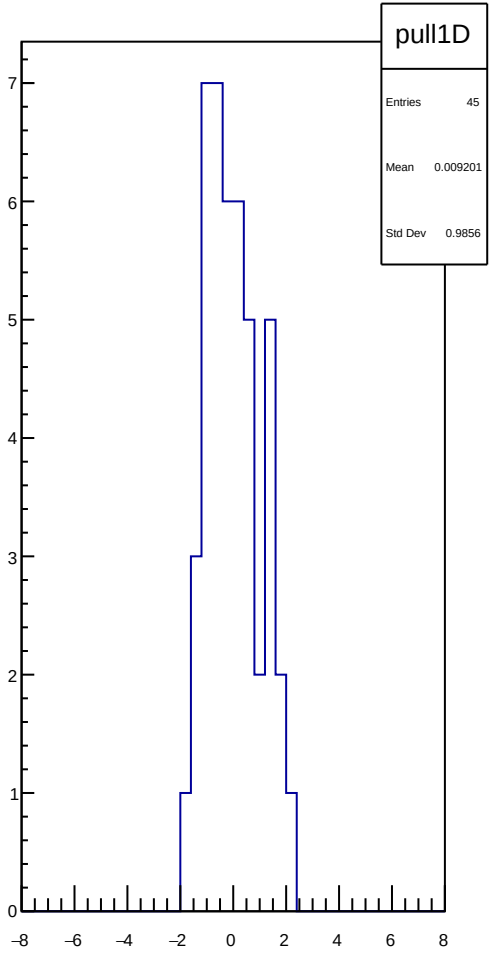
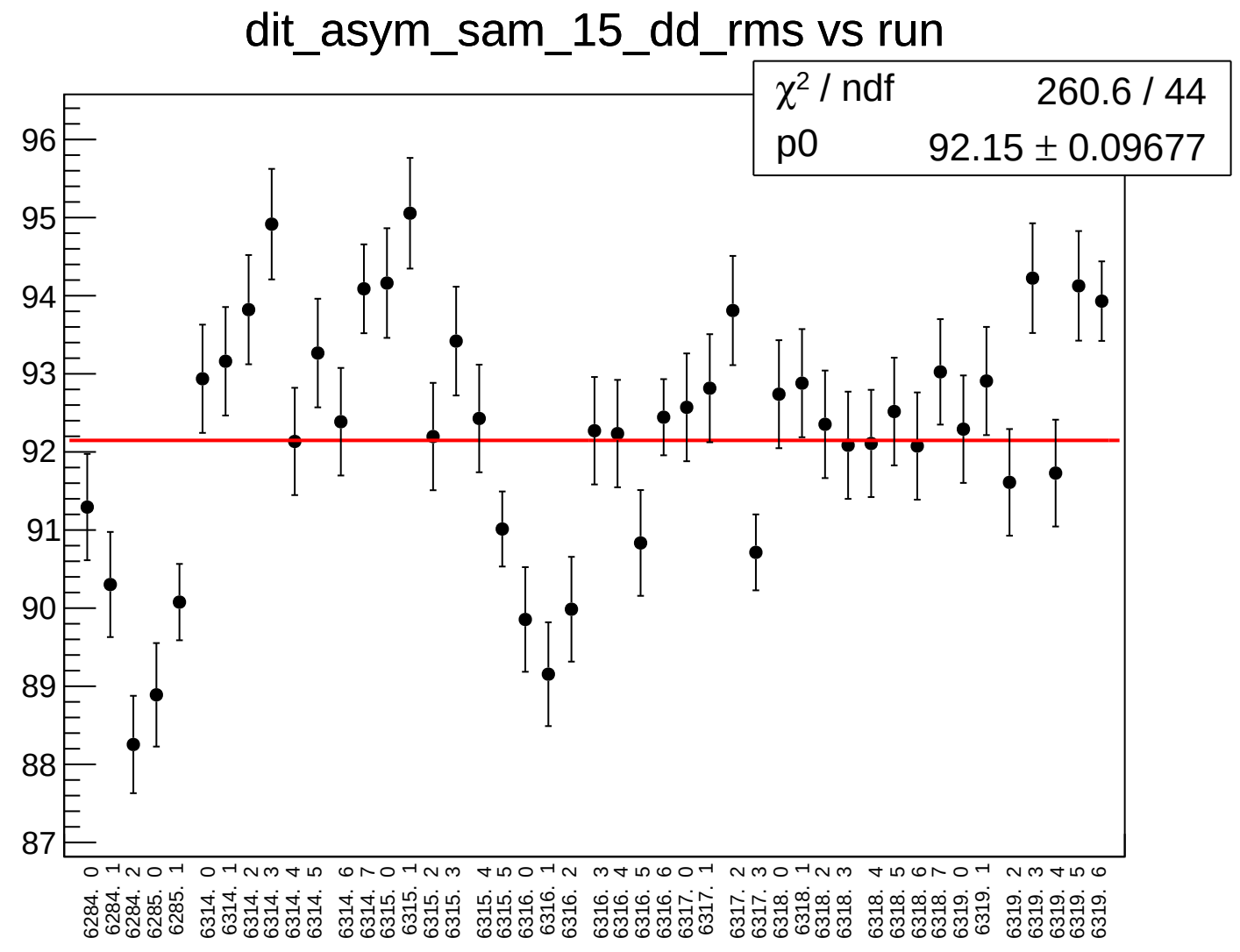
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −191.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009201
Std Dev 0.9856
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_dd_rms vs run
χ² / ndf 260.6 / 44
p0 92.15 ± 0.09677
96
95
94
93
92
91
90
89
88
87
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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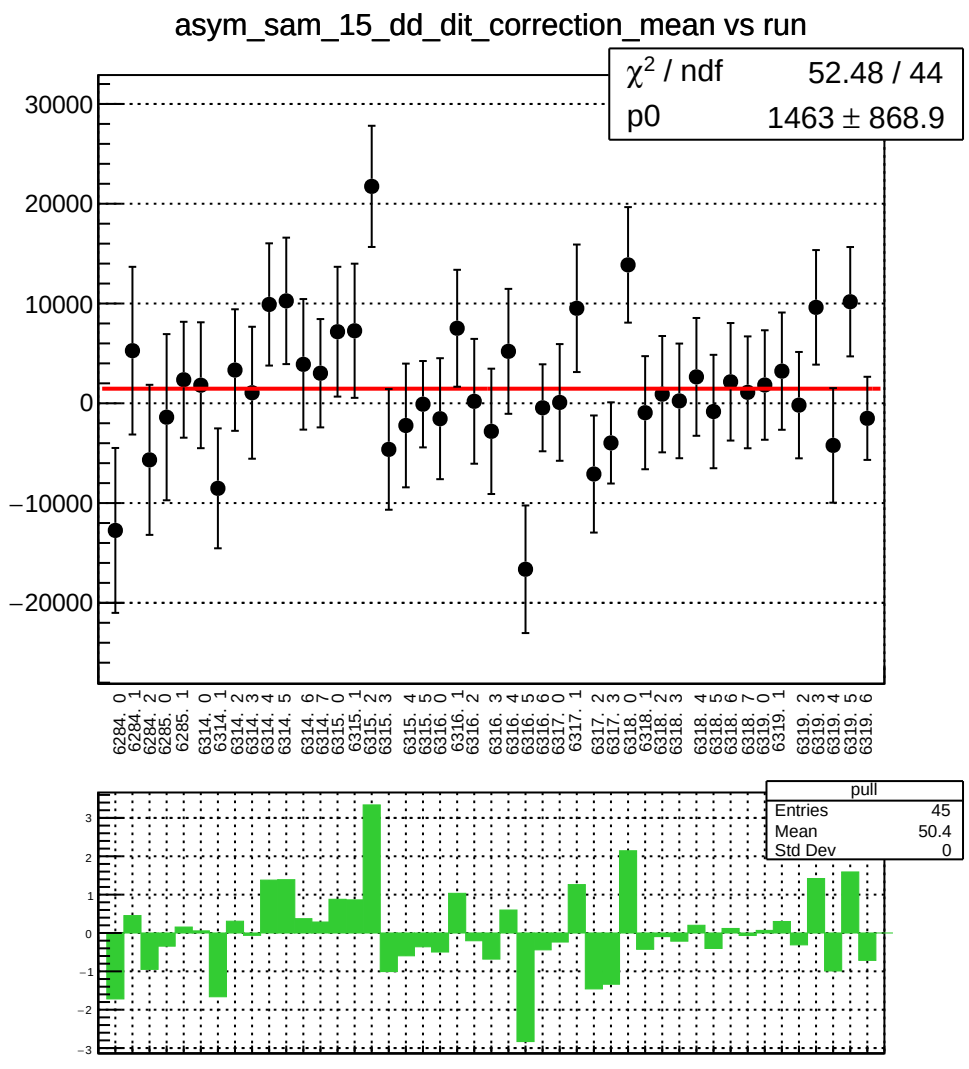
asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 52.48 / 44
p0 1463 ± 868.9
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6318. 7
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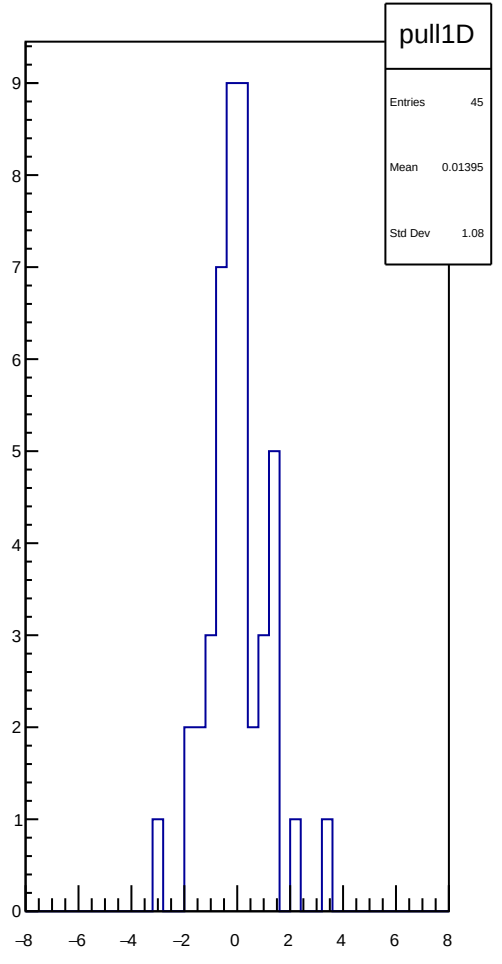
pull
Entries 45
Mean 50.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01395
Std Dev 1.08
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8
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5
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1
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−4
−2
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2
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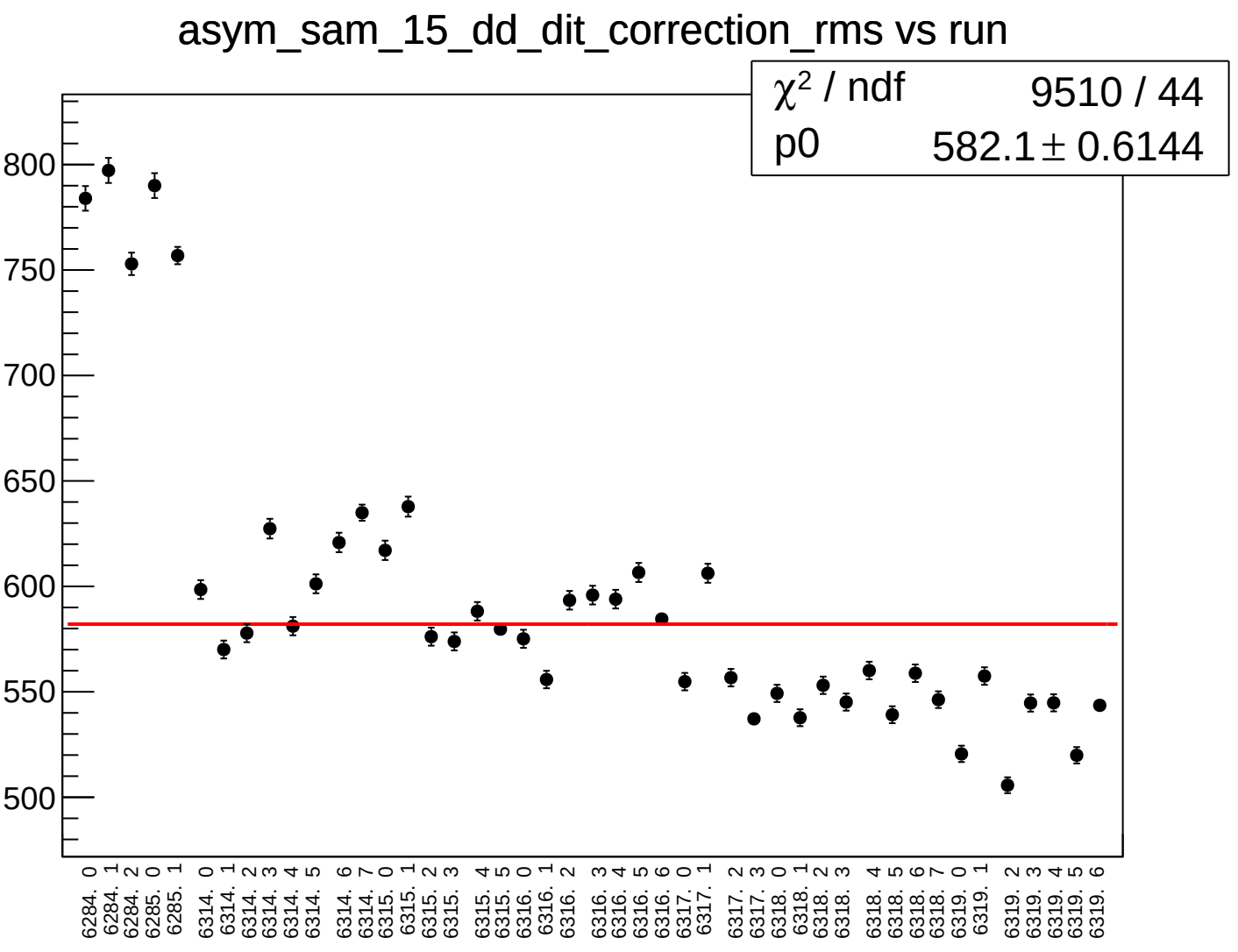
6
8


asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 9510 / 44
p0 582.1 ± 0.6144
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6316. 0
6316. 1
6316. 2
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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6319. 2
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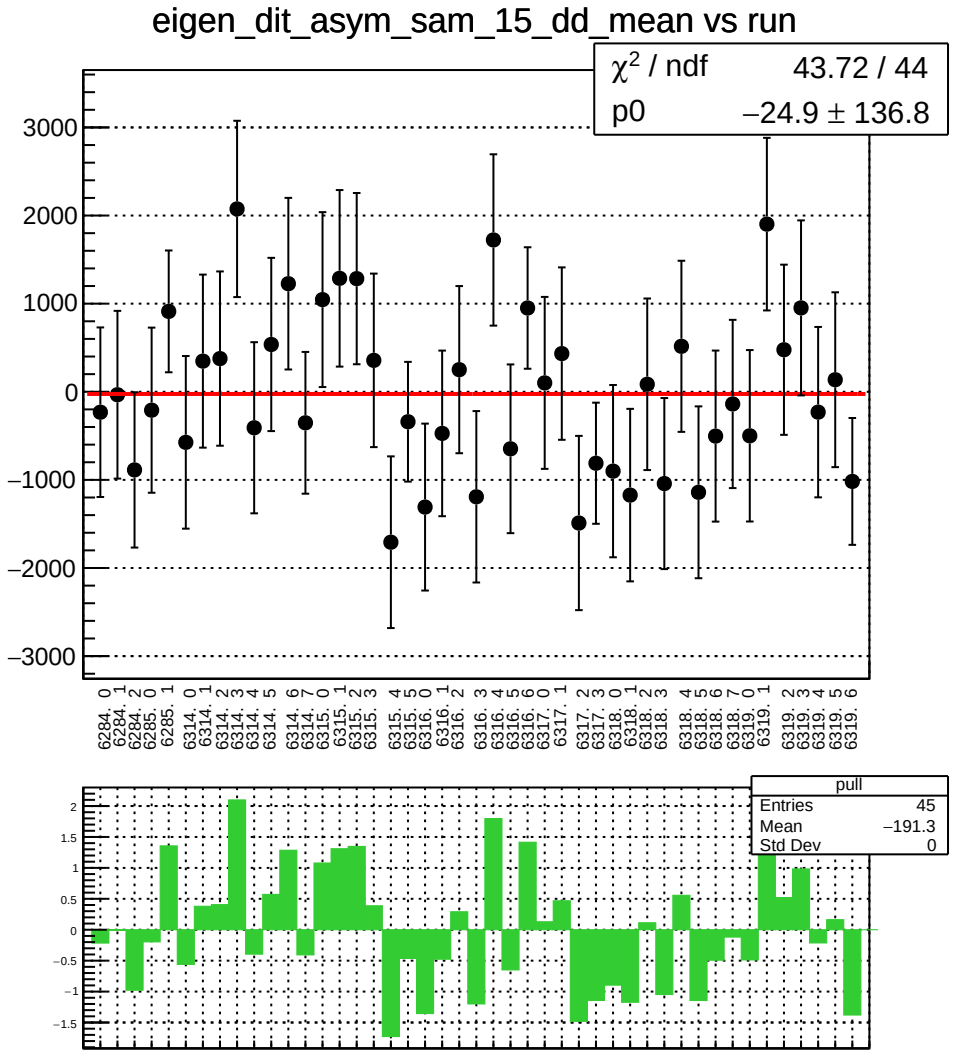
eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 43.72 / 44
p0 −24.9 ± 136.8
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
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6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −191.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0092
Std Dev 0.9856
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5
4
3
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1
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−8
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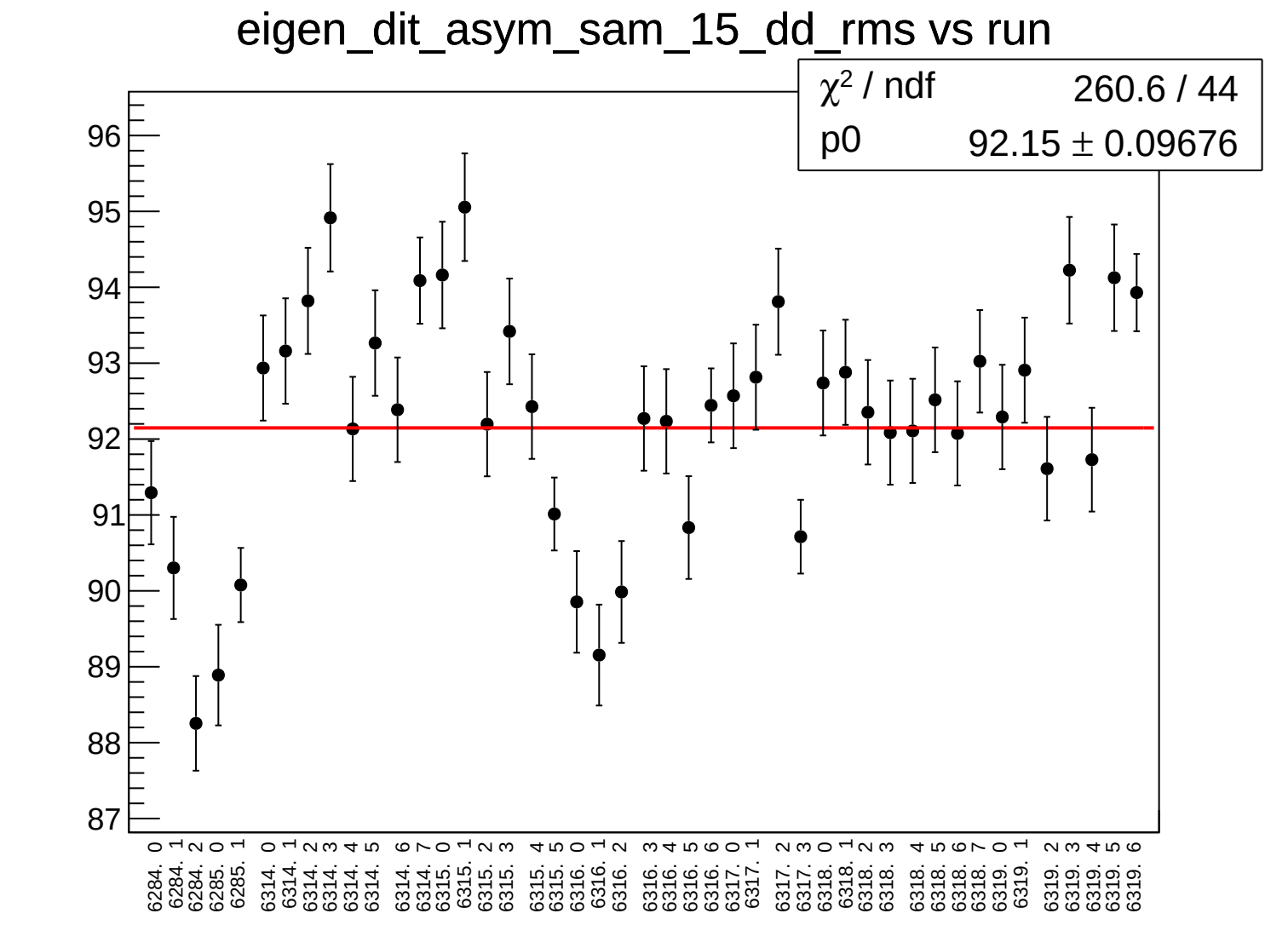
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 260.6 / 44
p0 92.15 ± 0.09676
96
95
94
93
92
91
90
89
88
87
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6318. 6
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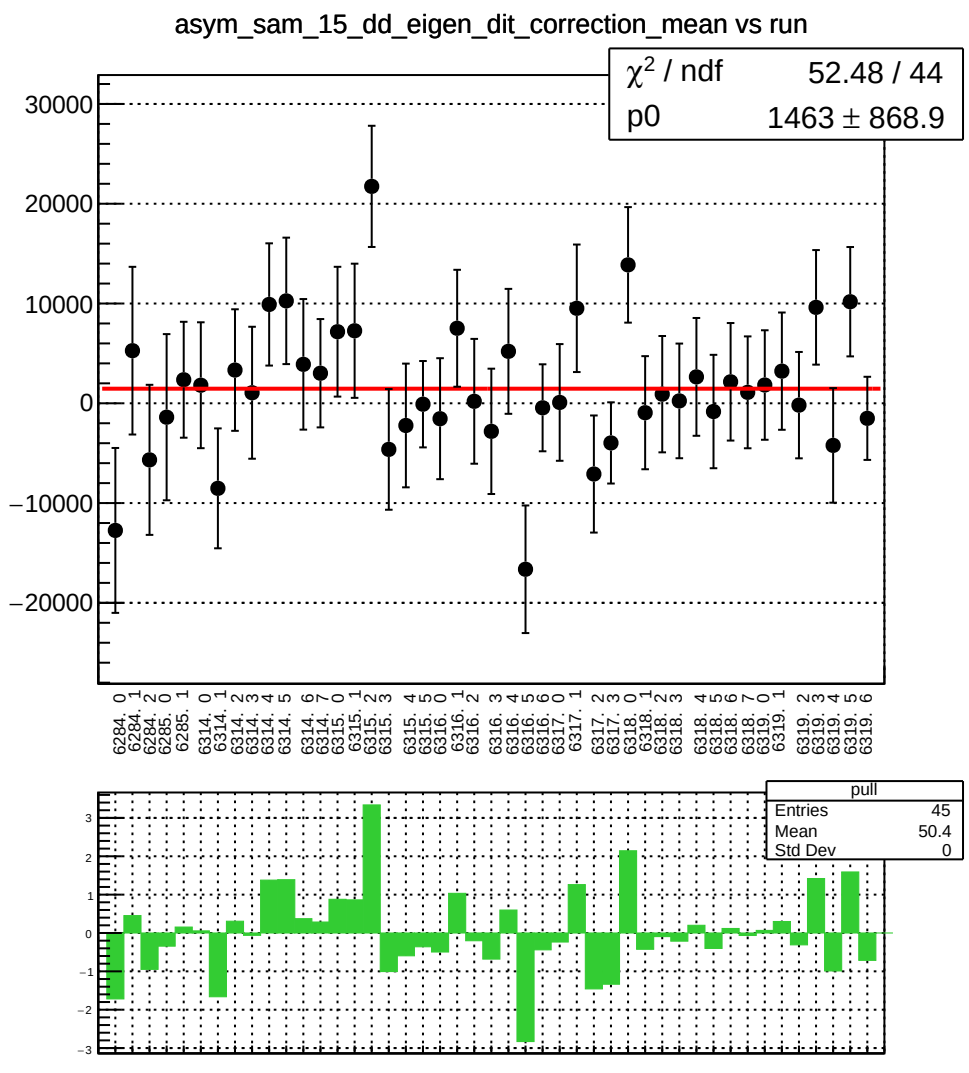
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.48 / 44
p0 1463 ± 868.9
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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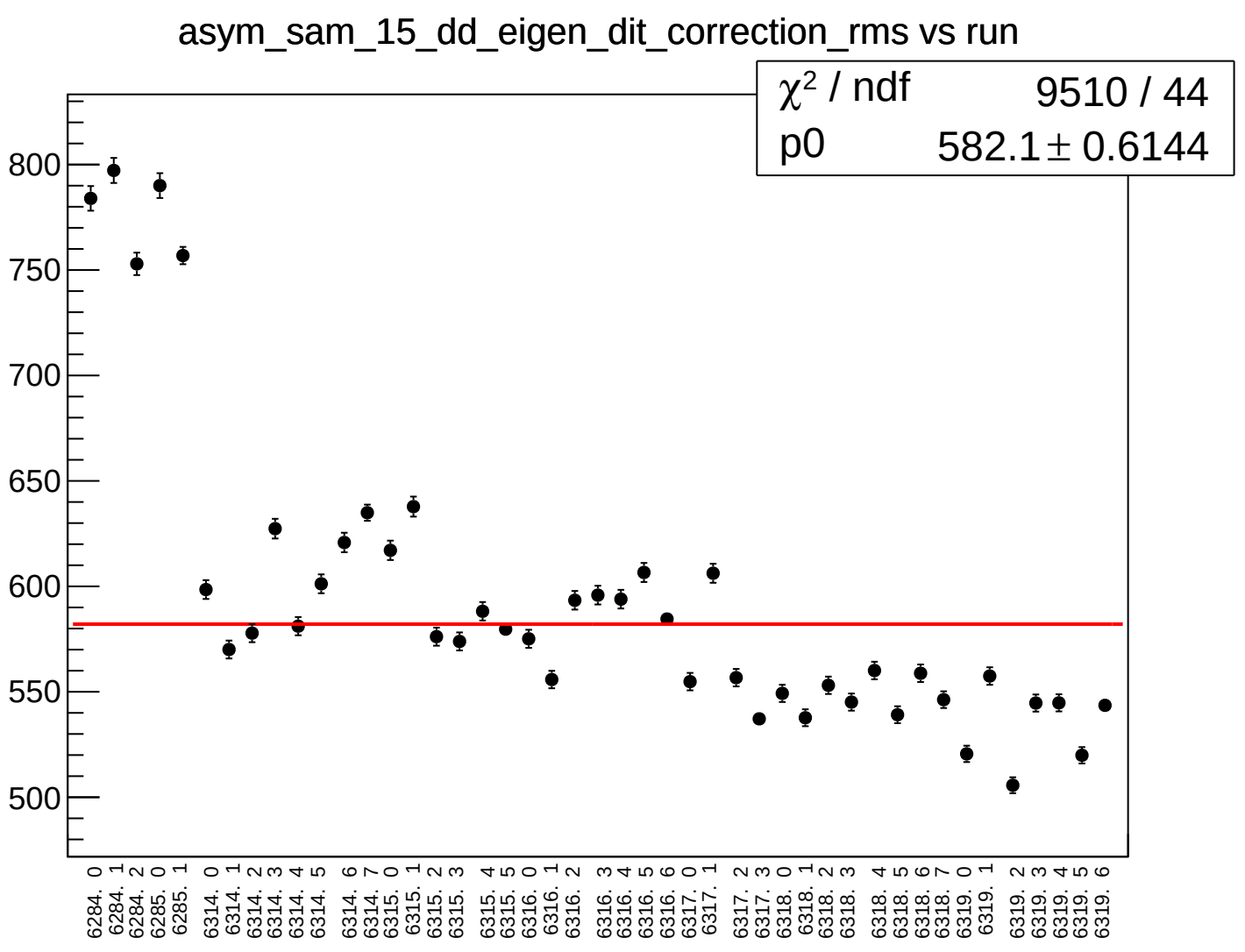
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01395
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 9510 / 44
p0 582.1 ± 0.6144
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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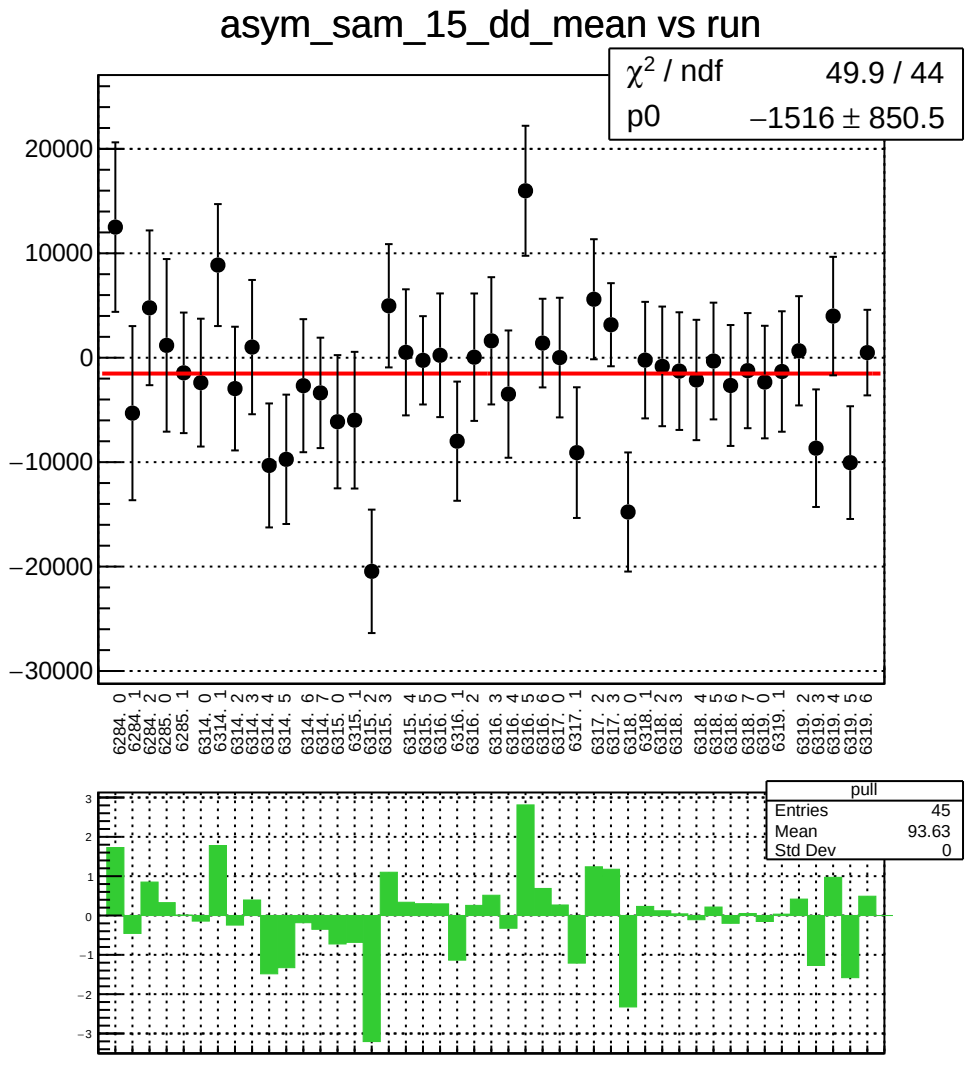
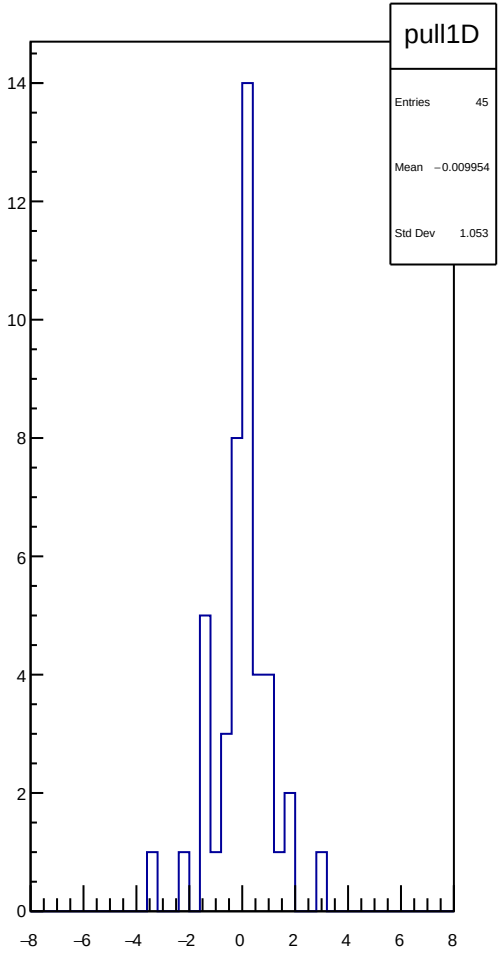
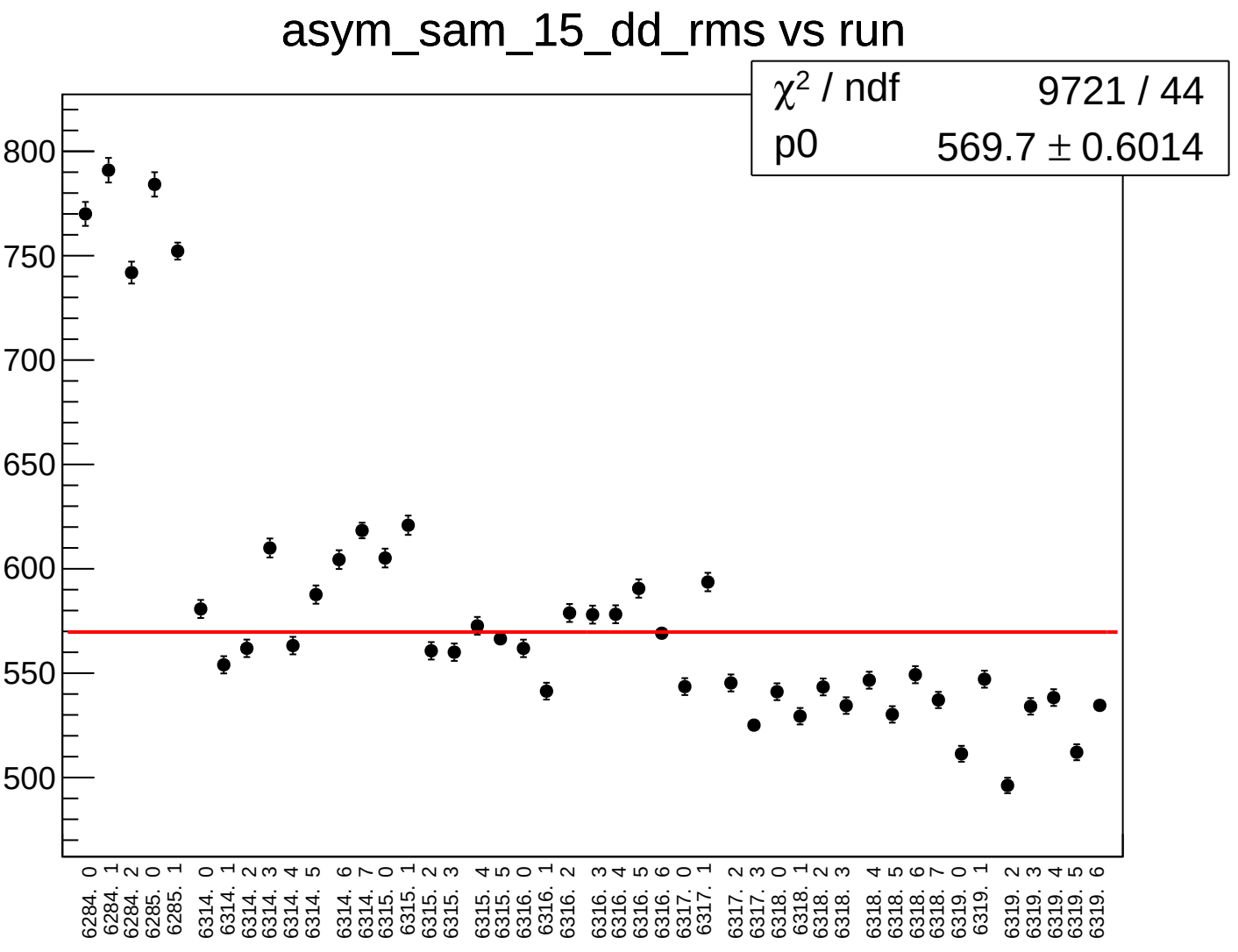
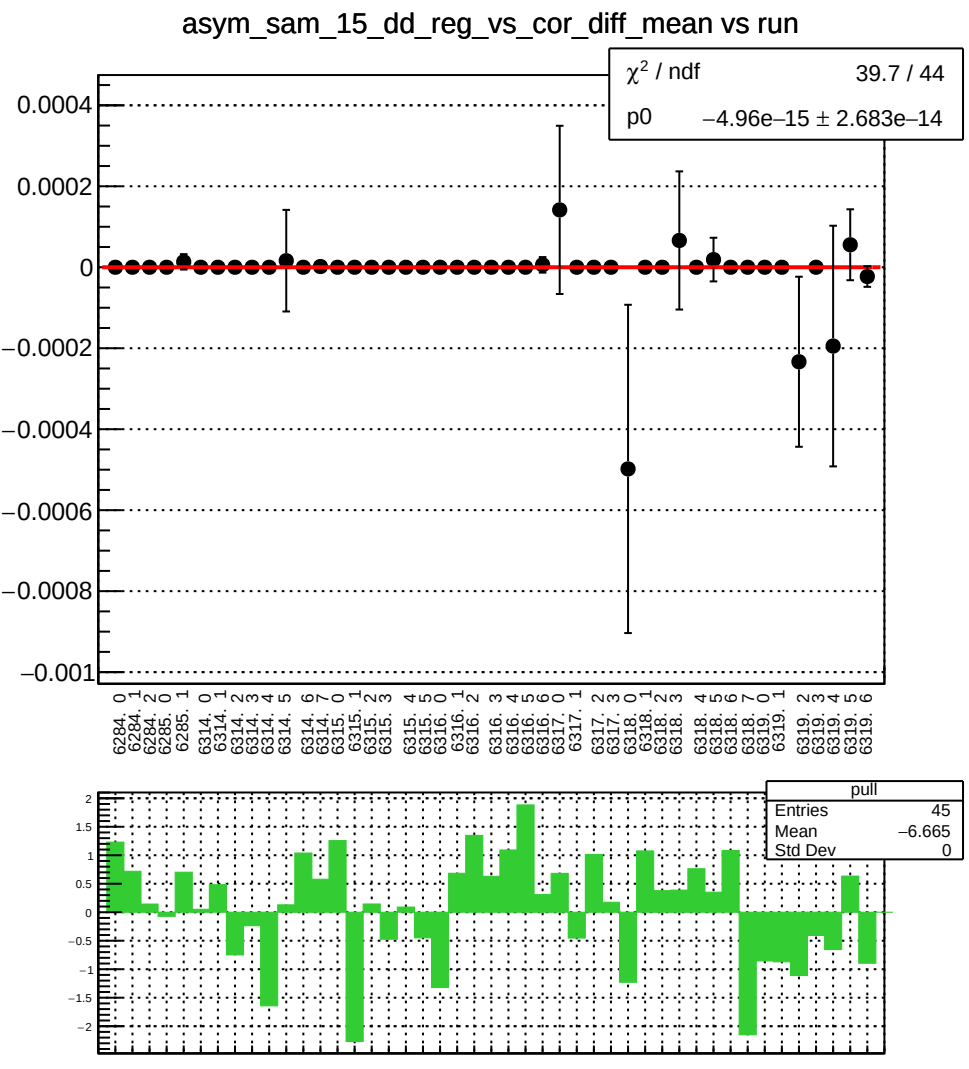
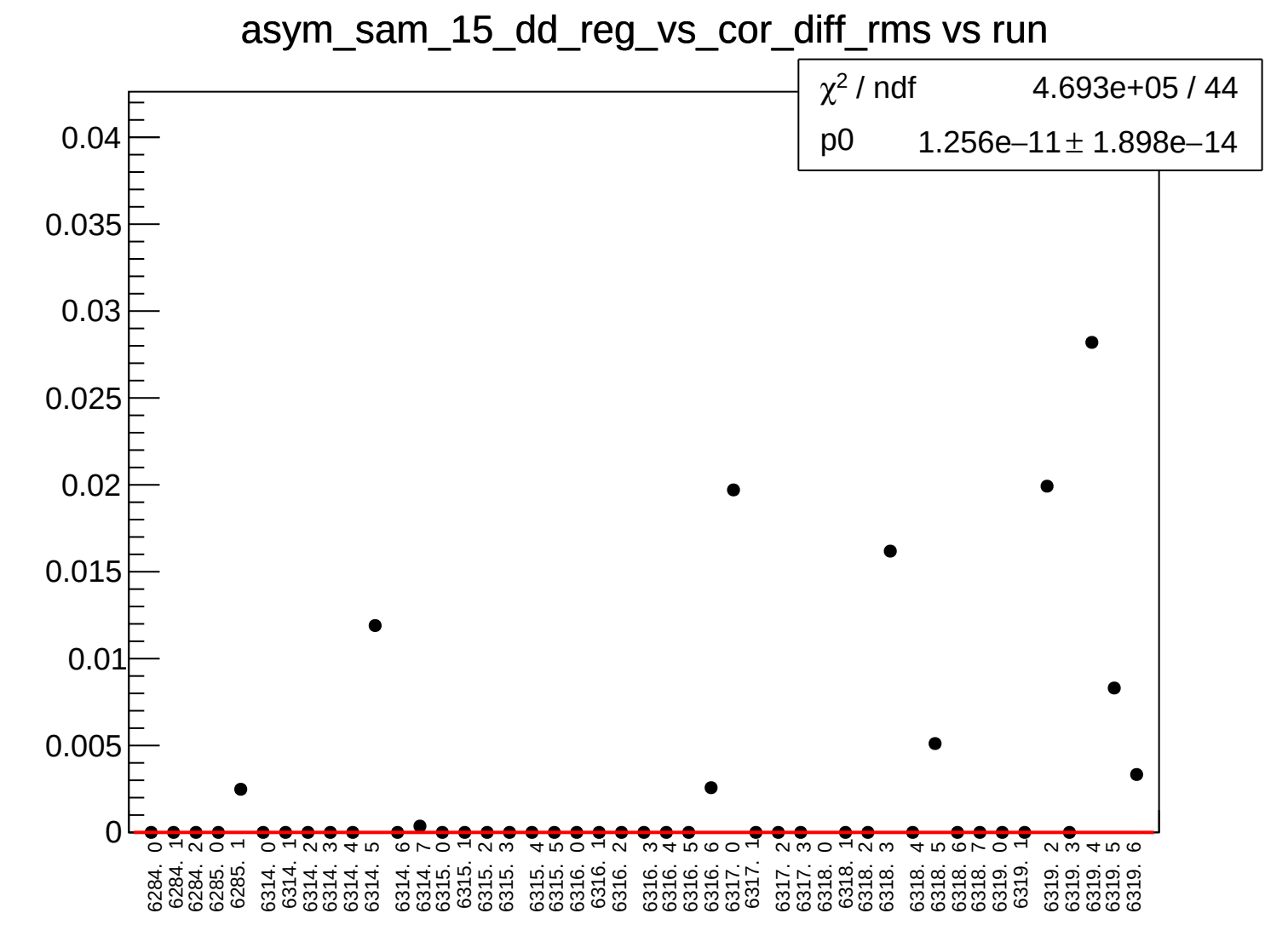
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

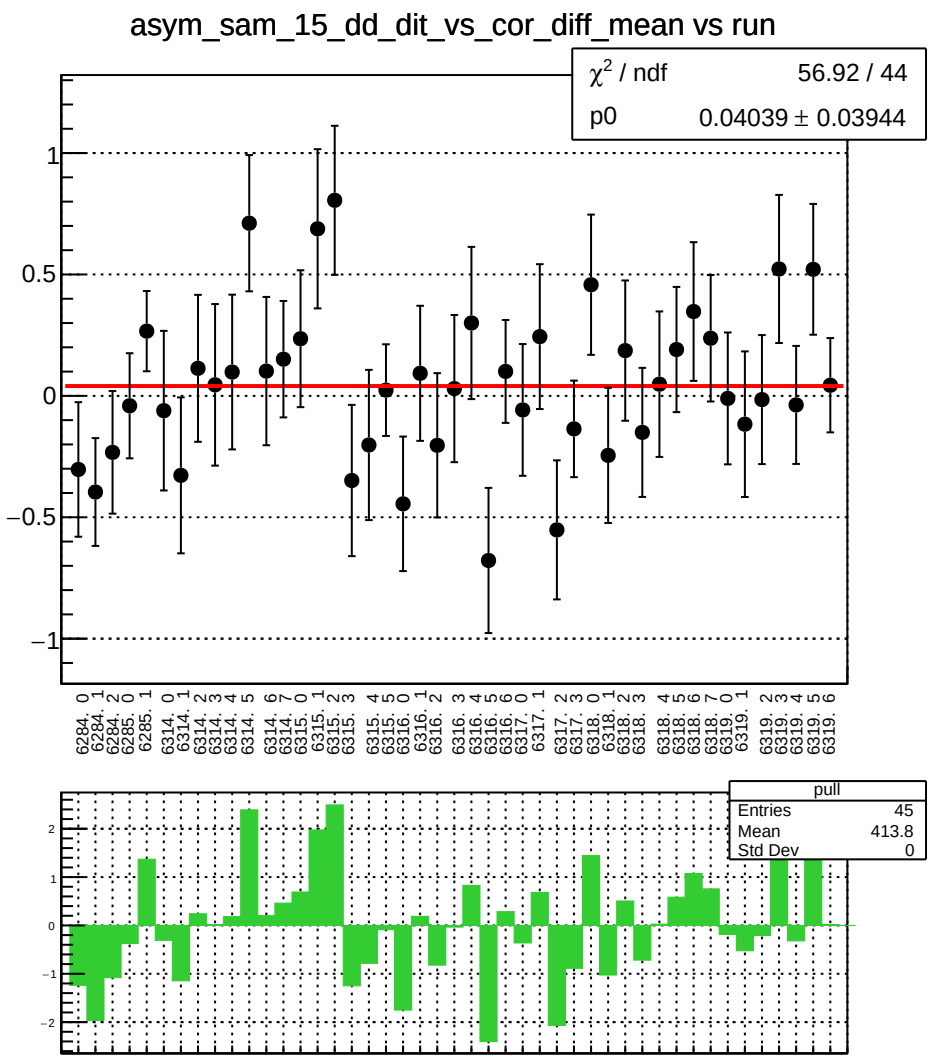

asym_sam_15_dd_mean vs run
χ² / ndf 49.9 / 44
p0 −1516 ± 850.5
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.63
Std Dev 0
3
2
1
0
−1
−2
−3

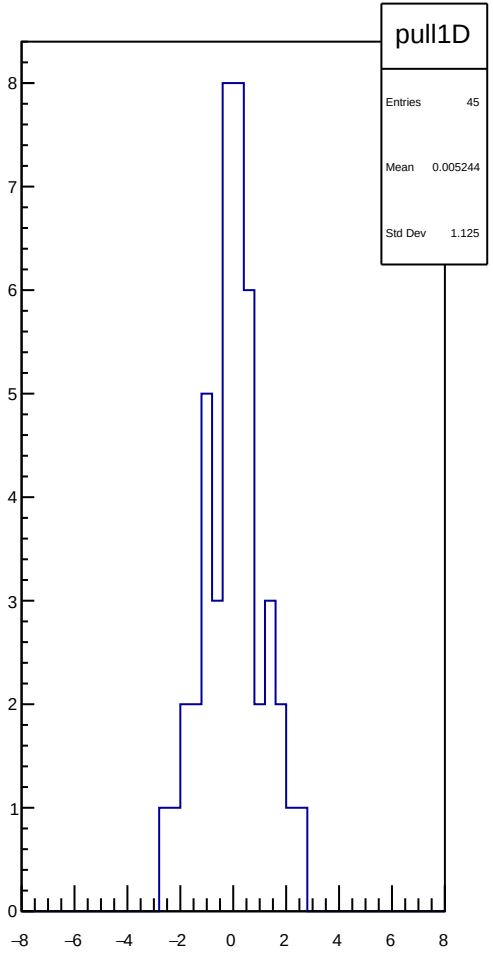

pull1D
Entries 45
Mean −0.009954
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

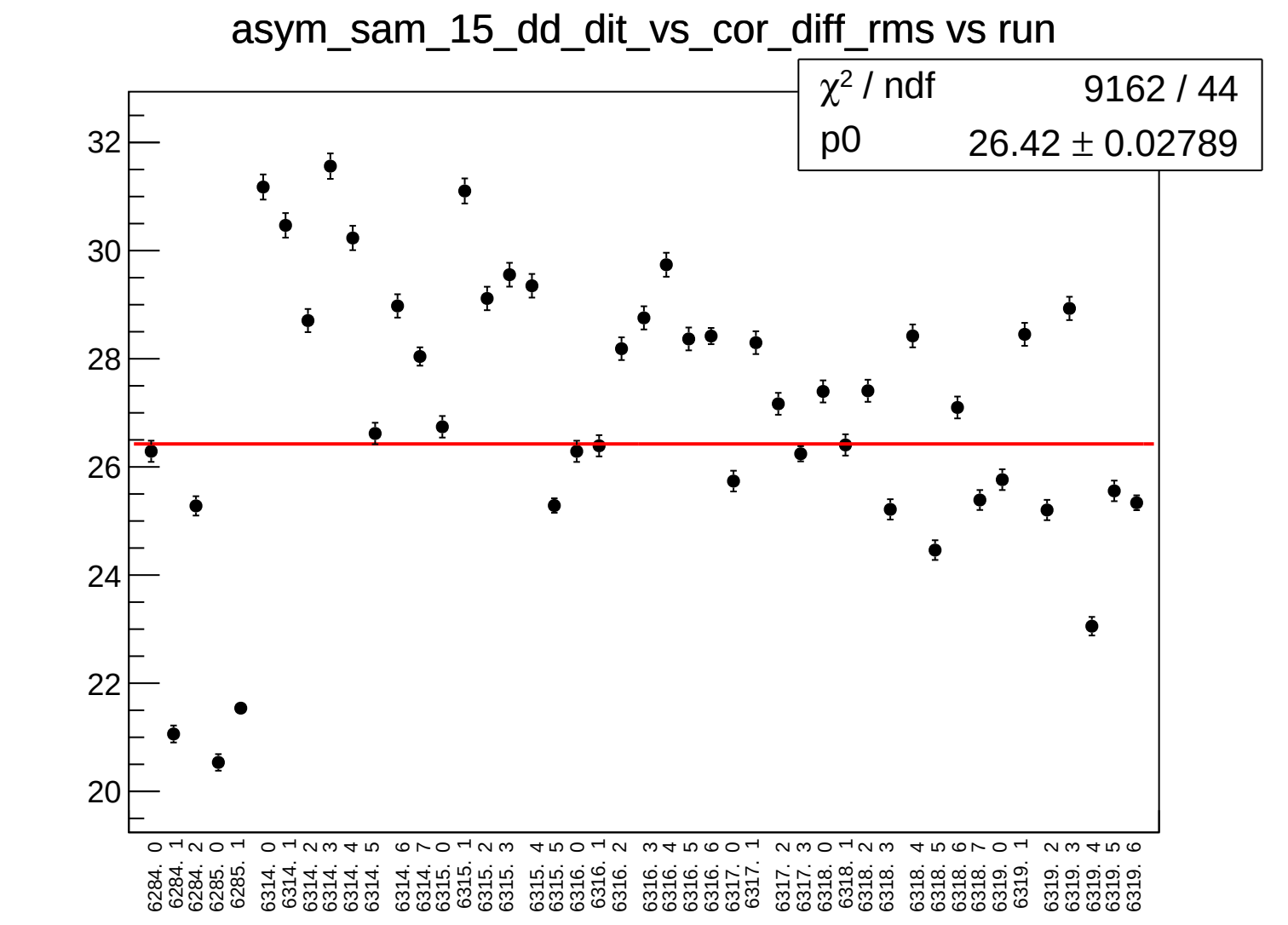

asym_sam_15_dd_rms vs run
χ² / ndf 9721 / 44
p0 569.7 ± 0.6014
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

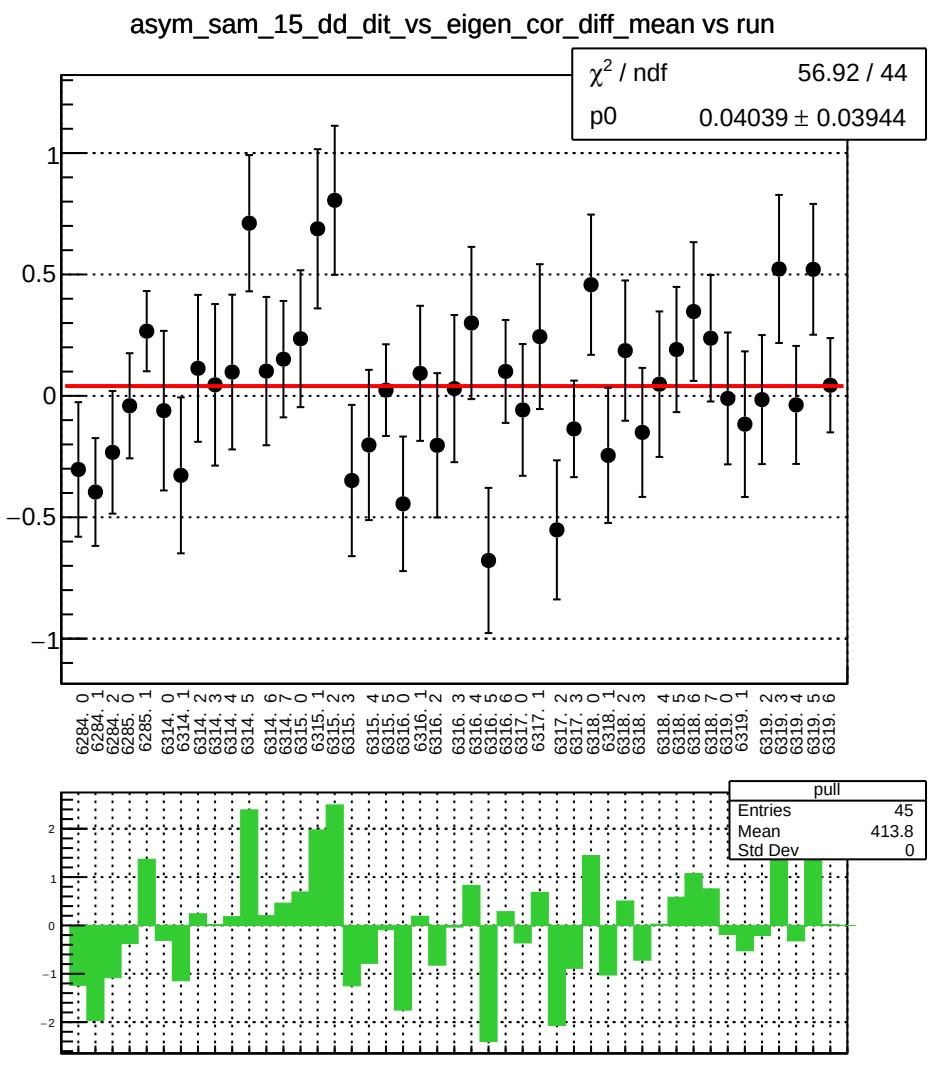

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.7 / 44
p0 −4.96e−15 ± 2.683e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.665
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.07168
Std Dev 0.9366
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

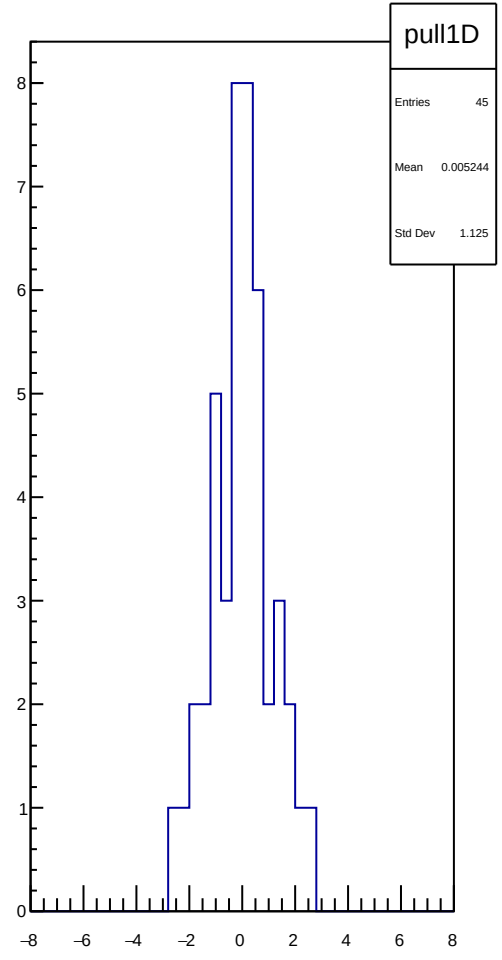

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.693e+05 / 44
p0 1.256e−11 ± 1.898e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

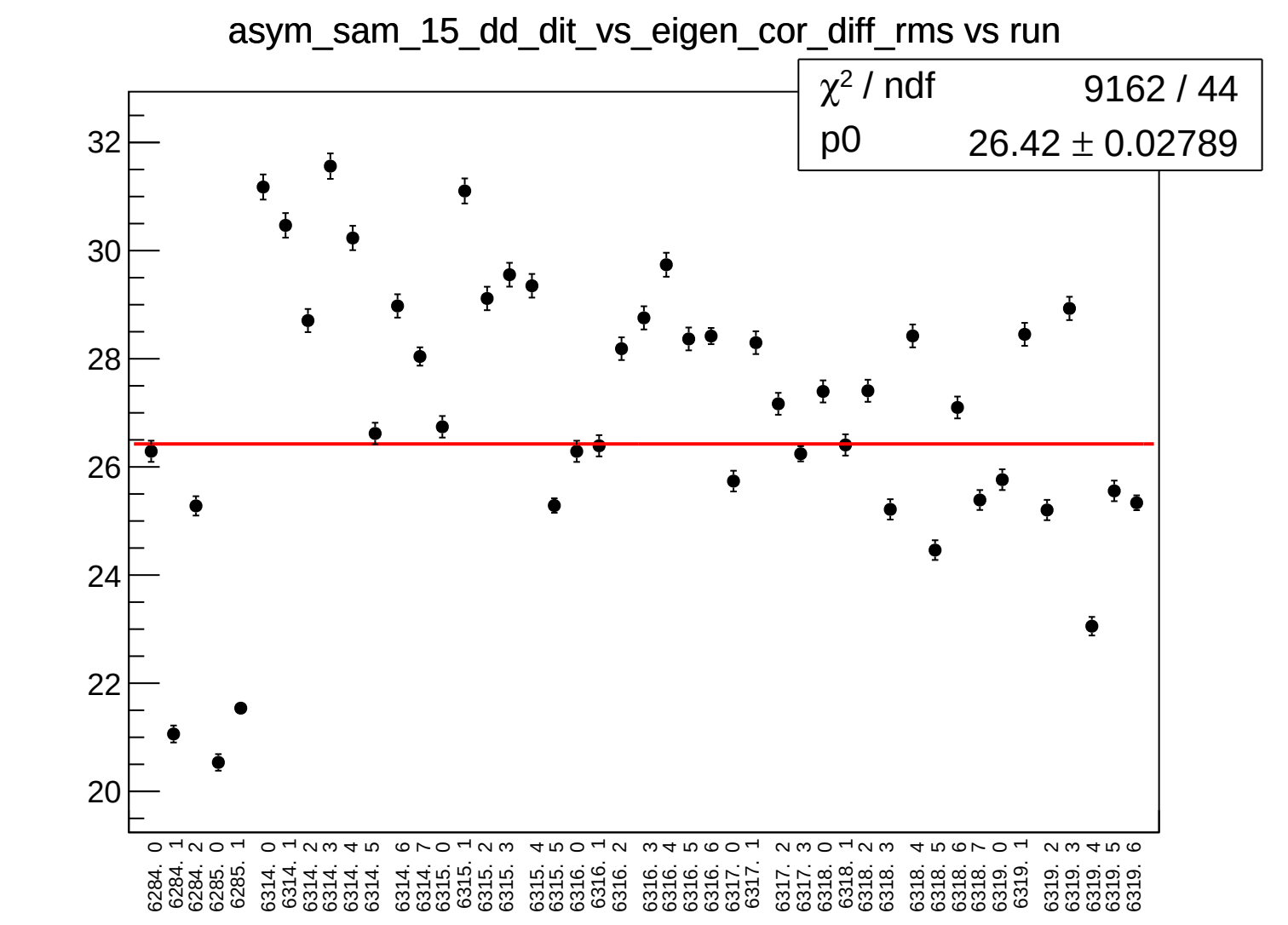

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.92 / 44
p0 0.04039 ± 0.03944
pull
Entries 45
Mean 413.8
Std Dev 0

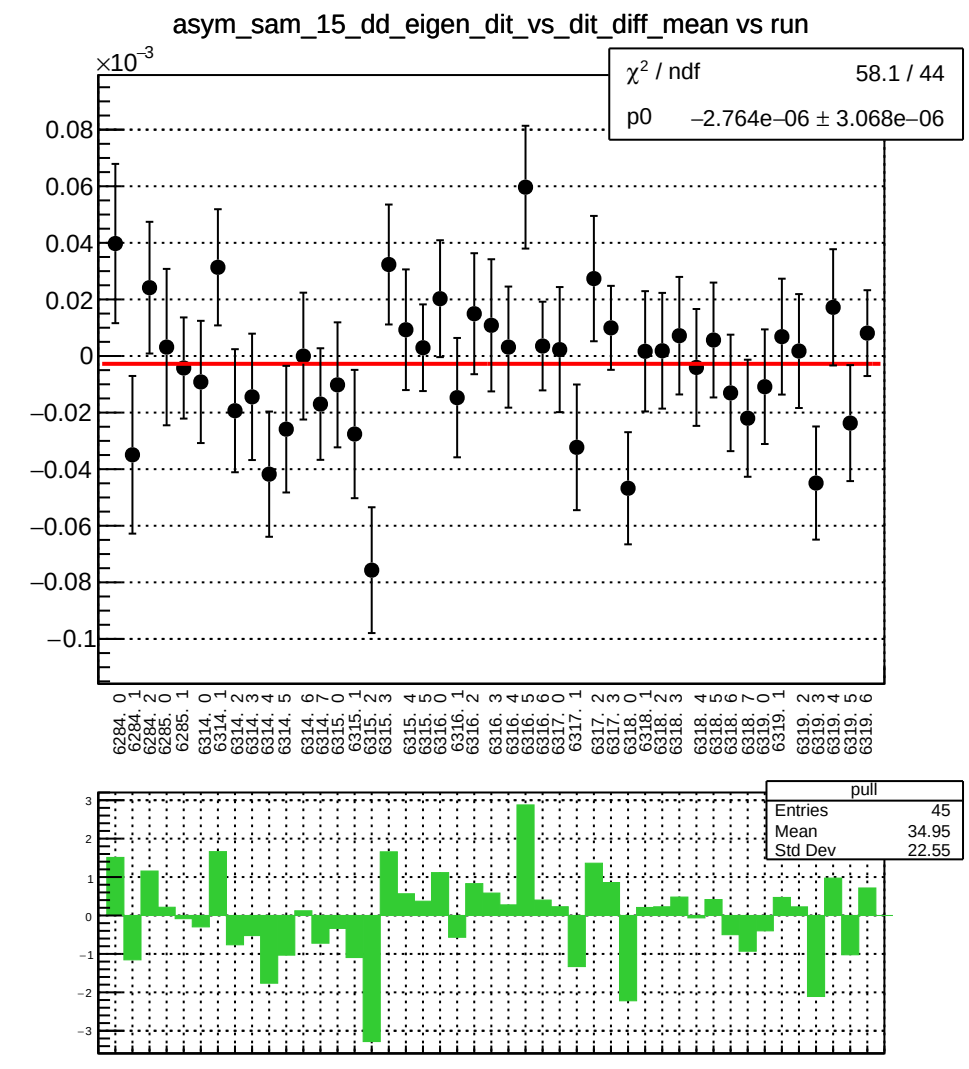

pull1D
Entries 45
Mean 0.005244
Std Dev 1.125

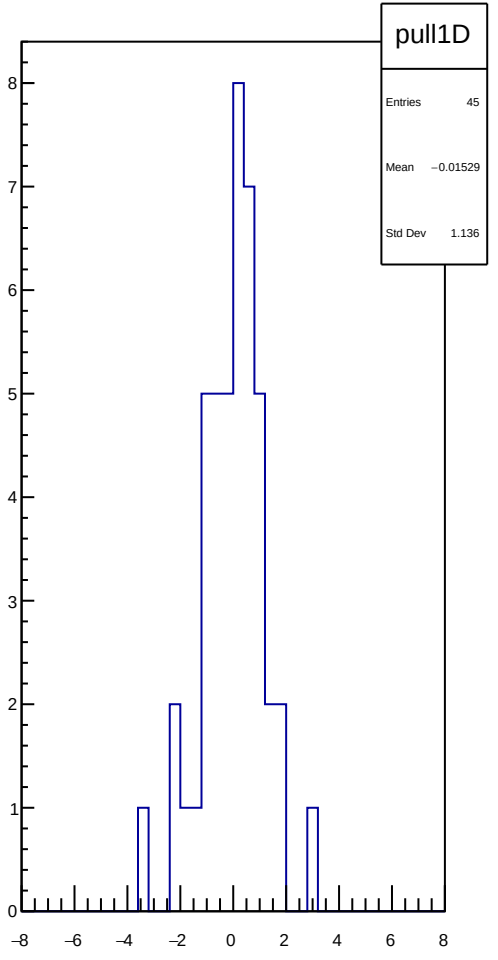

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9162 / 44
p0 26.42 ± 0.02789
32
30
28
26
24
22
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

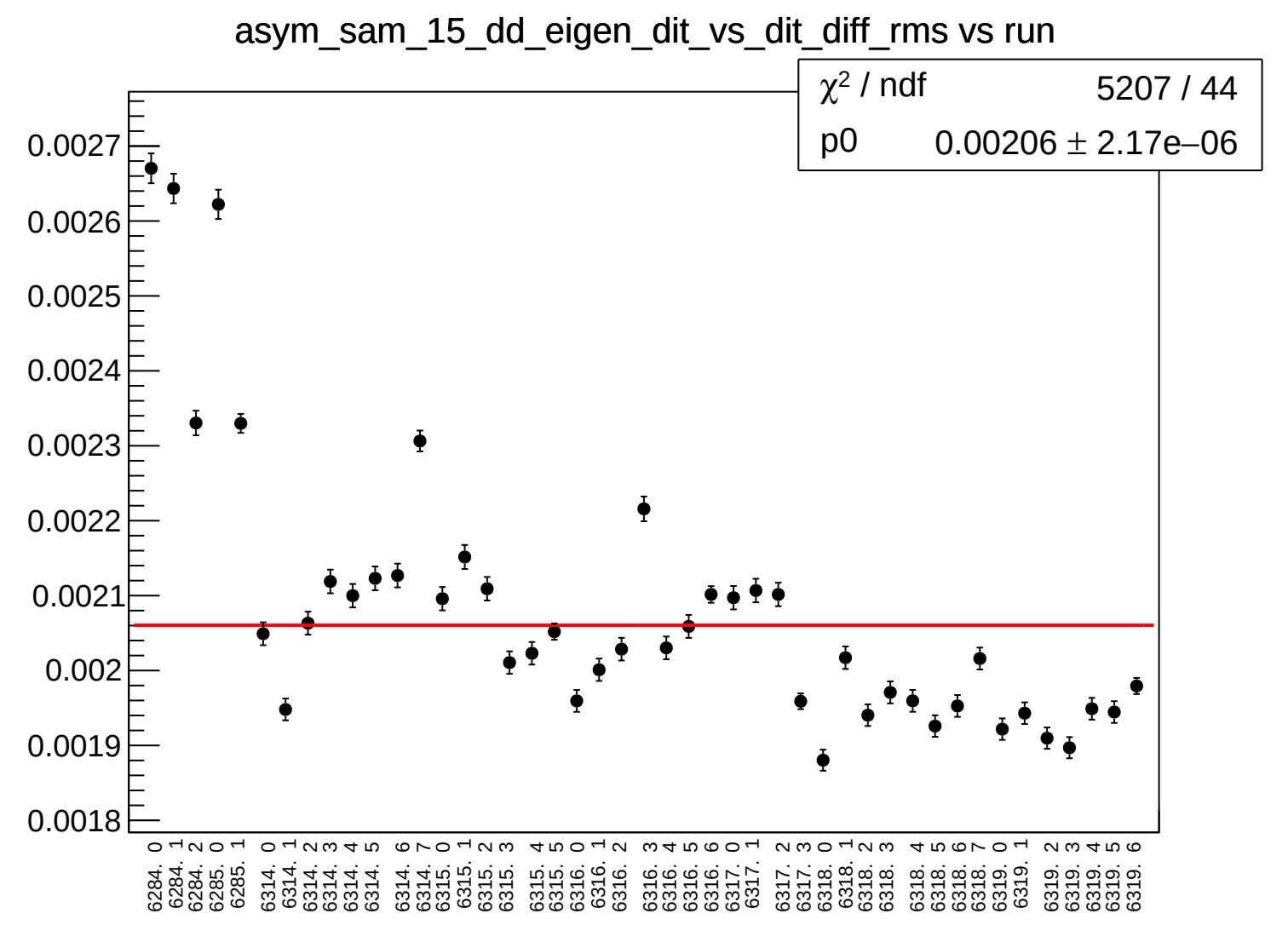

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.92 / 44
p0 0.04039 ± 0.03944
1
0.5
0
−0.5
−1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 413.8
Std Dev 0
2
1
0
−1
−2

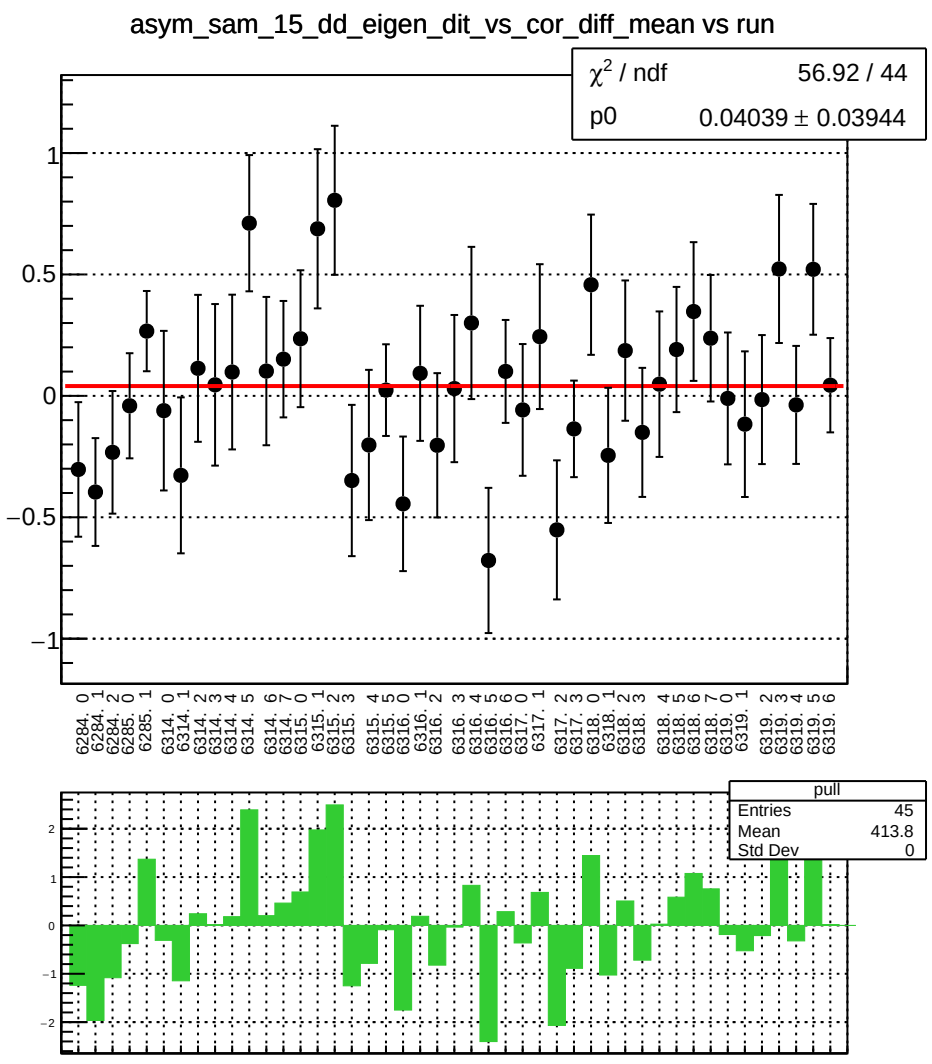

pull1D
Entries 45
Mean 0.005244
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

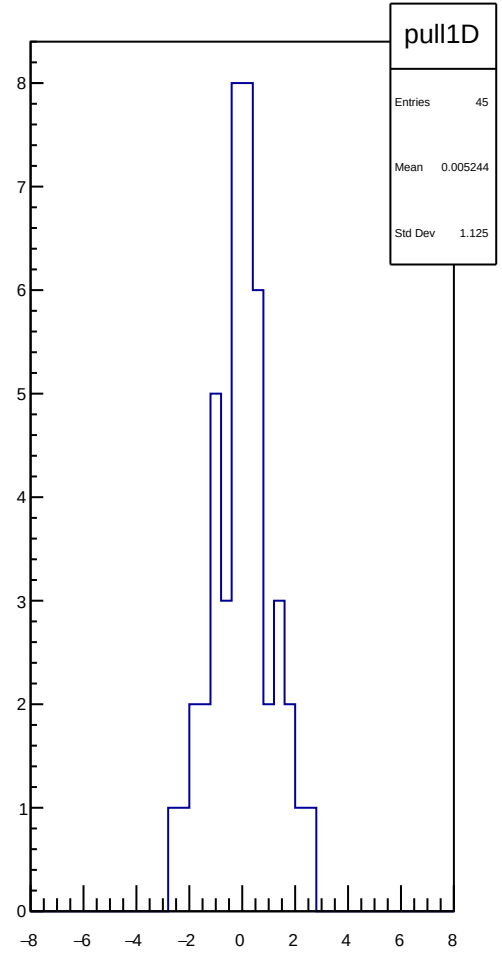

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9162 / 44
p0 26.42 ± 0.02789
32
30
28
26
24
22
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

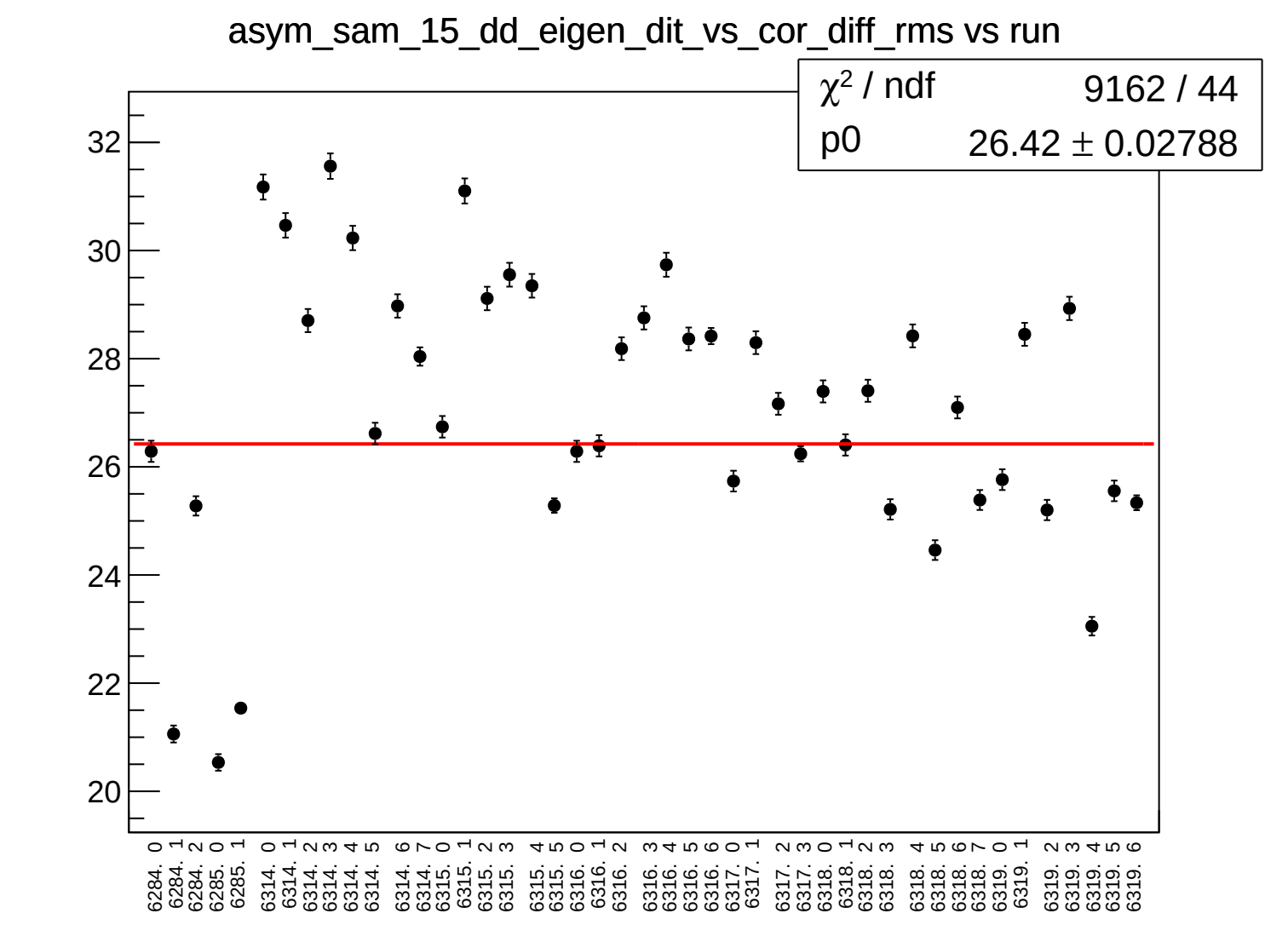

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.1 / 44
p0 −2.764e−06 ± 3.068e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 34.95
Std Dev 22.55
3
2
1
0
−1
−2
−3

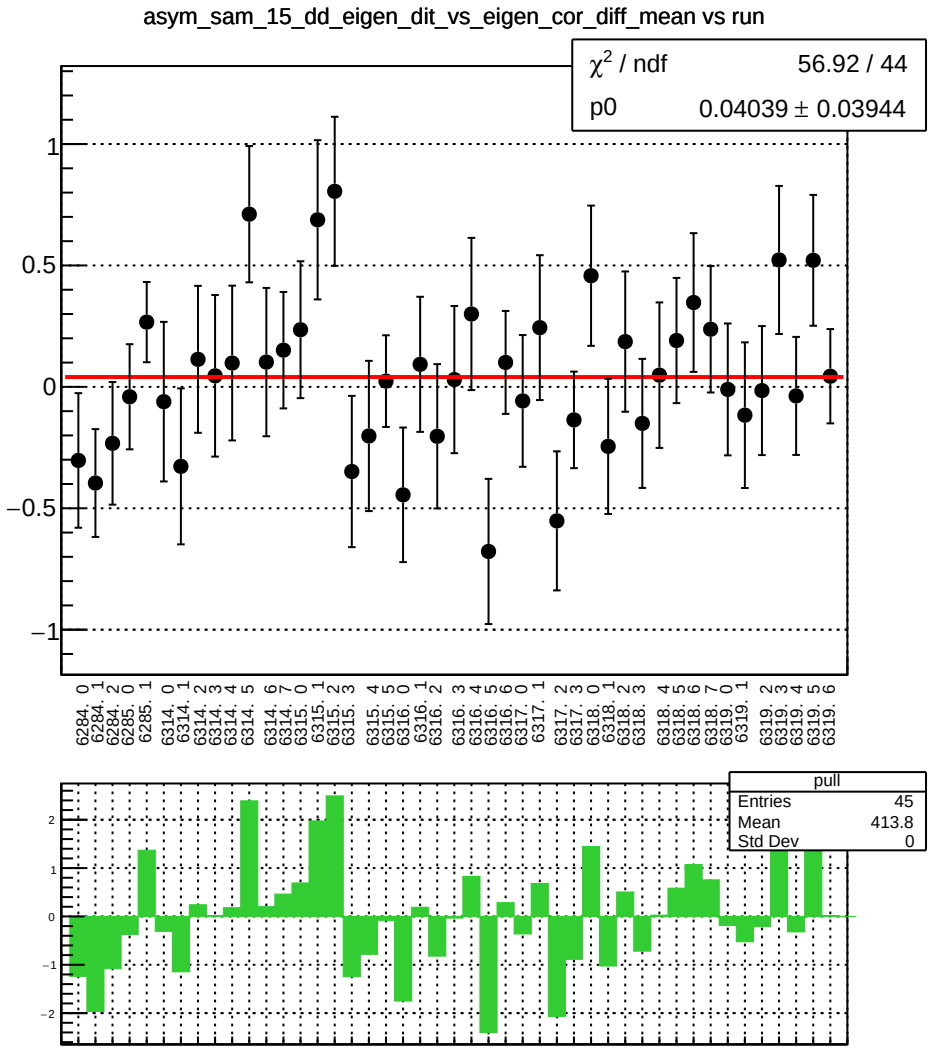

pull1D
Entries 45
Mean −0.01529
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

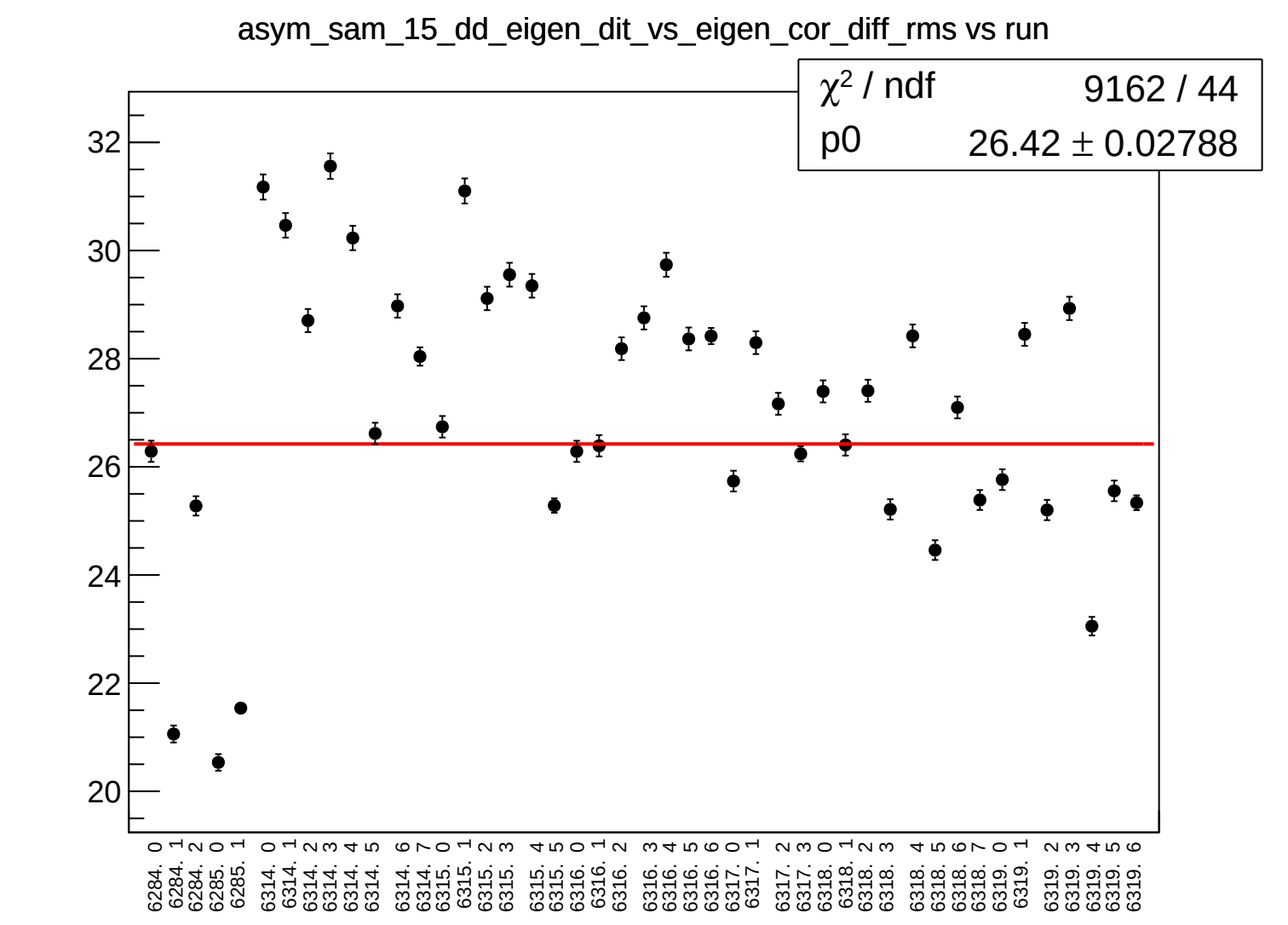

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5207 / 44
p0 0.00206 ± 2.17e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

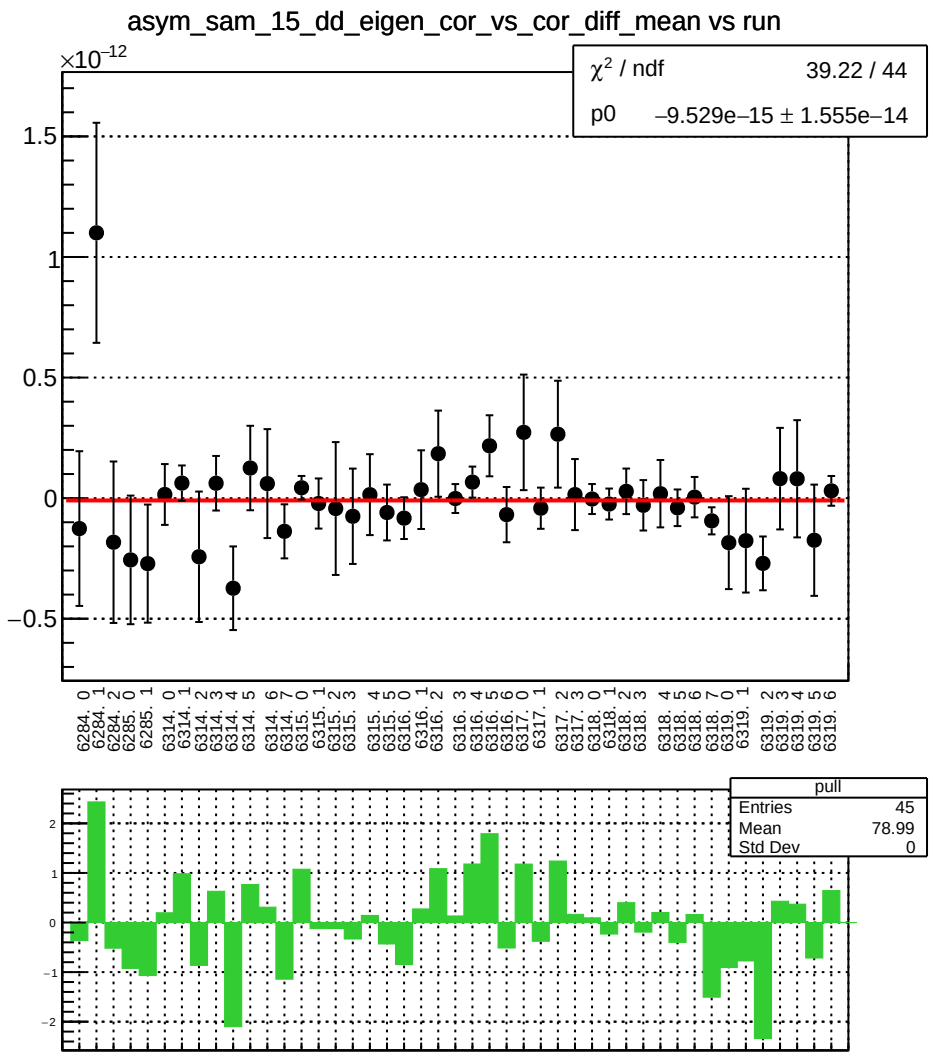

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.92 / 44
p0 0.04039 ± 0.03944
1
0.5
0
−0.5
−1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 413.8
Std Dev 0
2
1
0
−1
−2

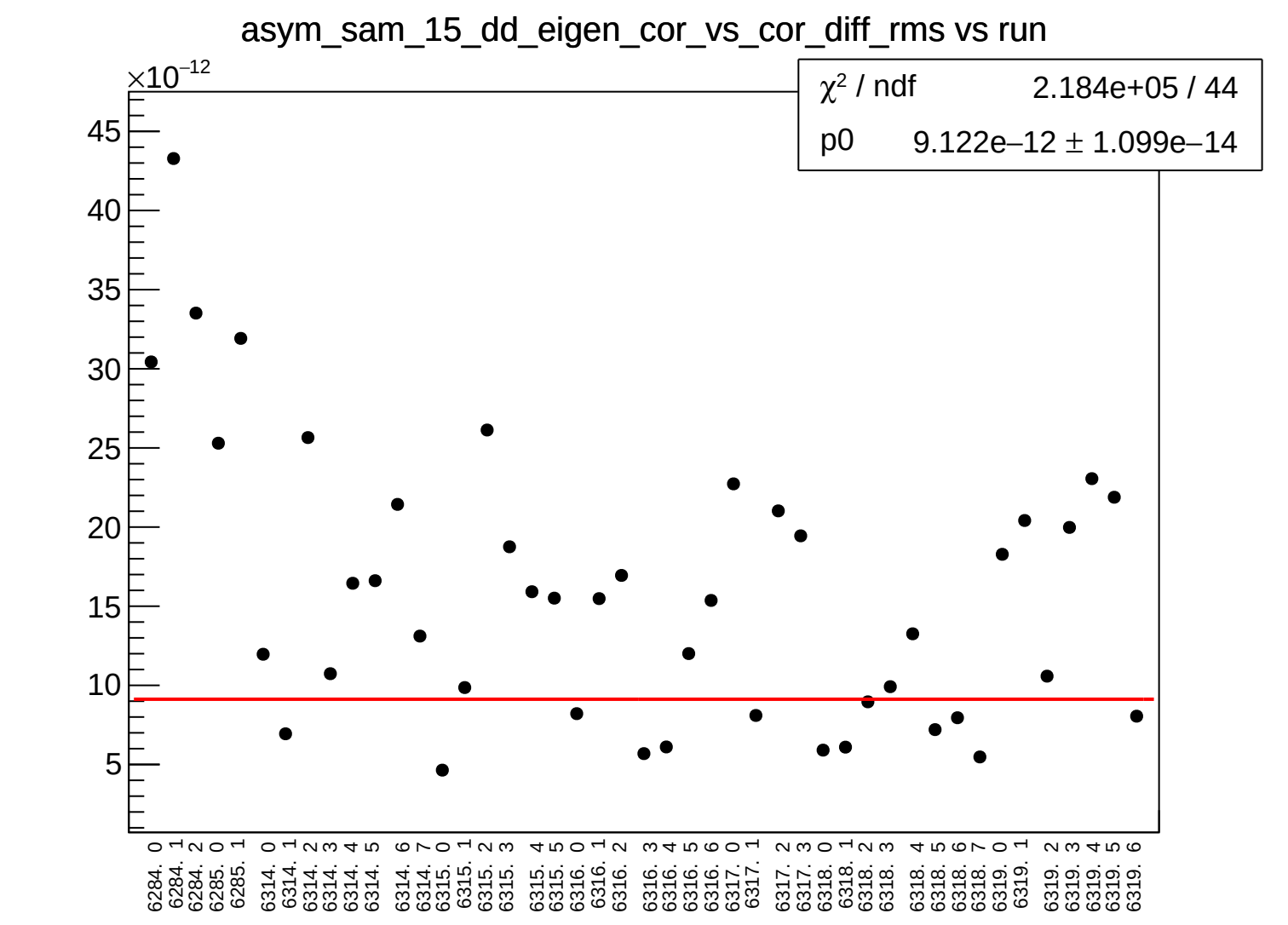

pull1D
Entries 45
Mean 0.005244
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

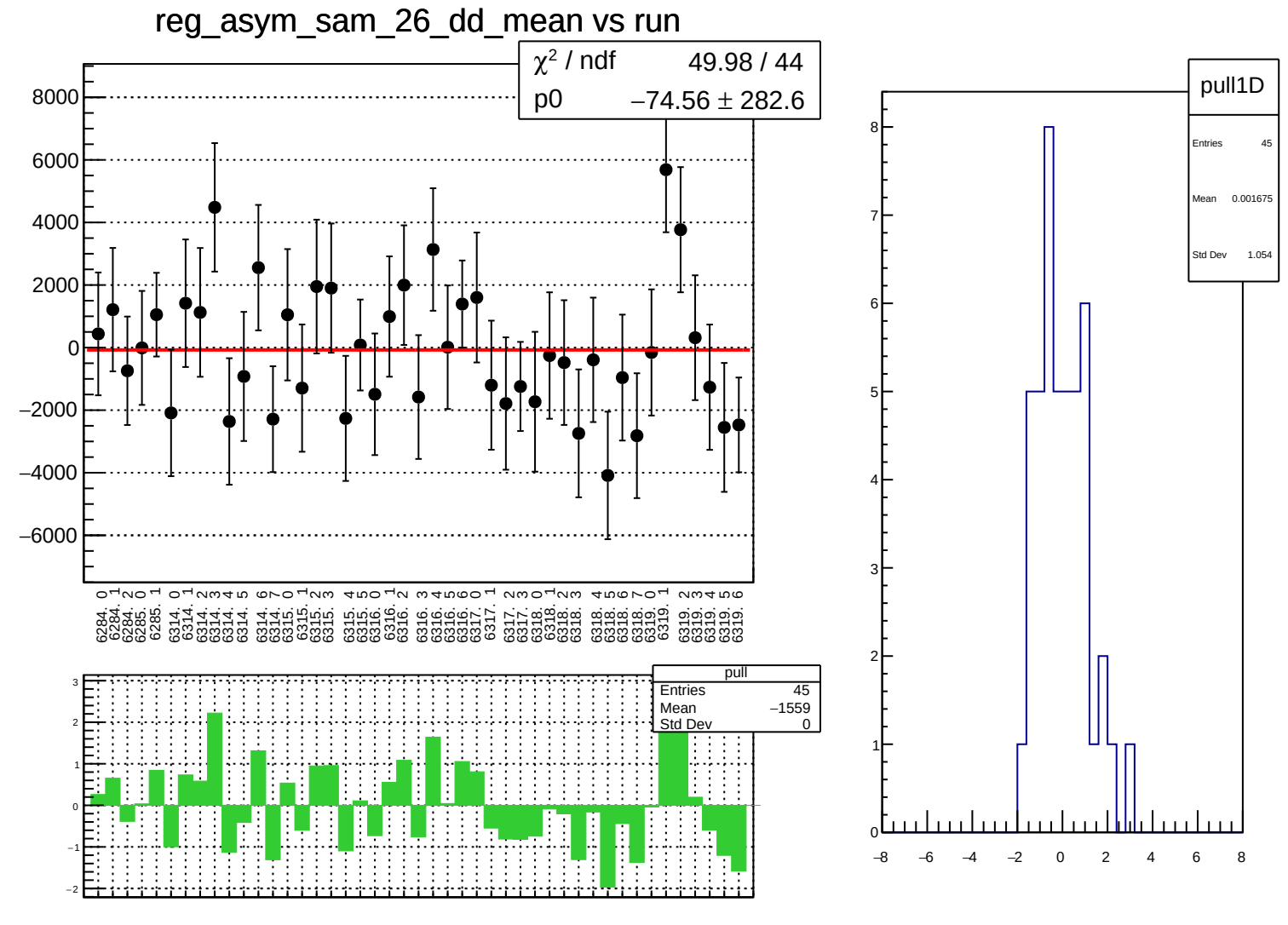

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9162 / 44
p0 26.42 ± 0.02788
32
30
28
26
24
22
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

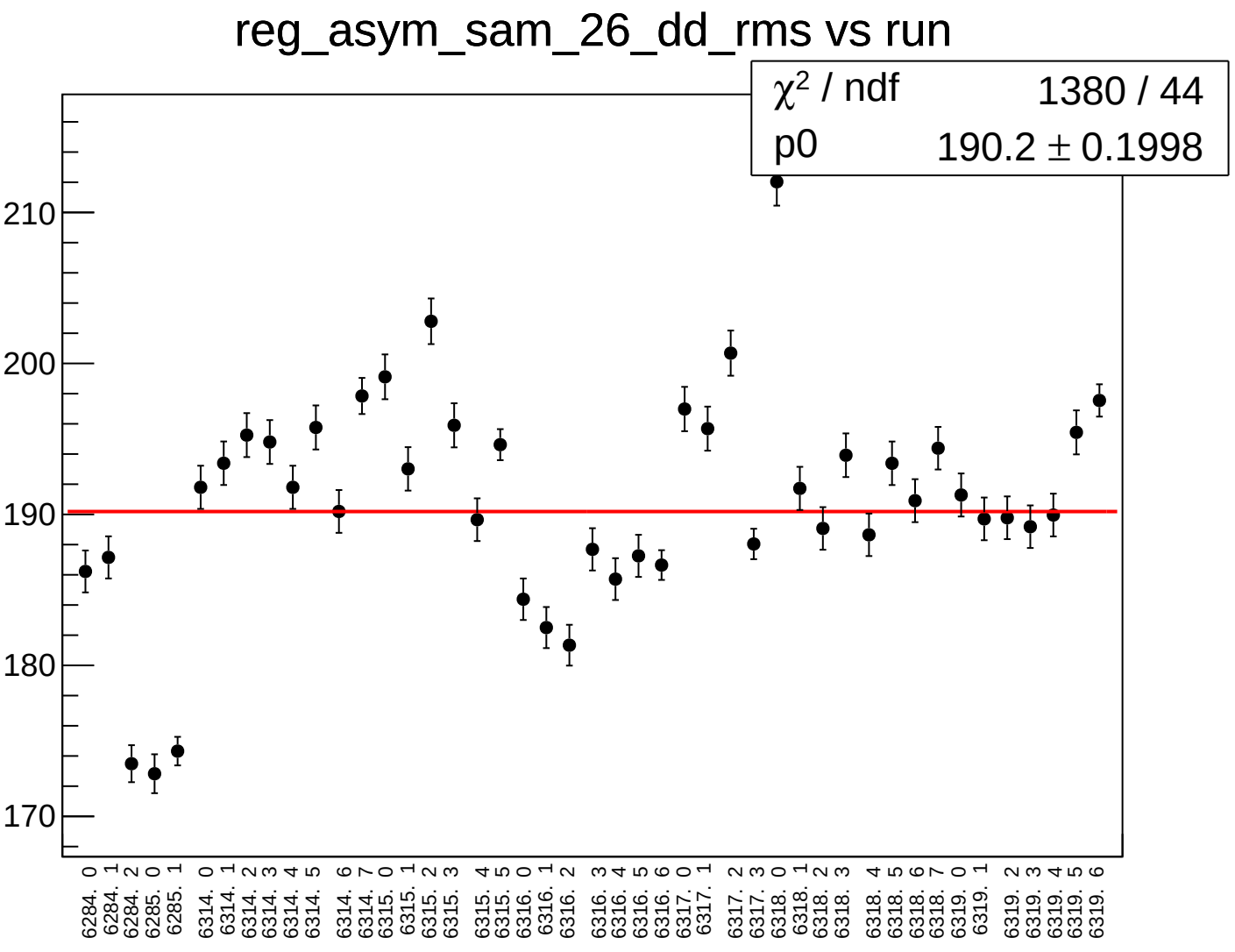

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.92 / 44
p0 0.04039 ± 0.03944
pull
Entries 45
Mean 413.8
Std Dev 0
pull1D
Entries 45
Mean 0.005244
Std Dev 1.125

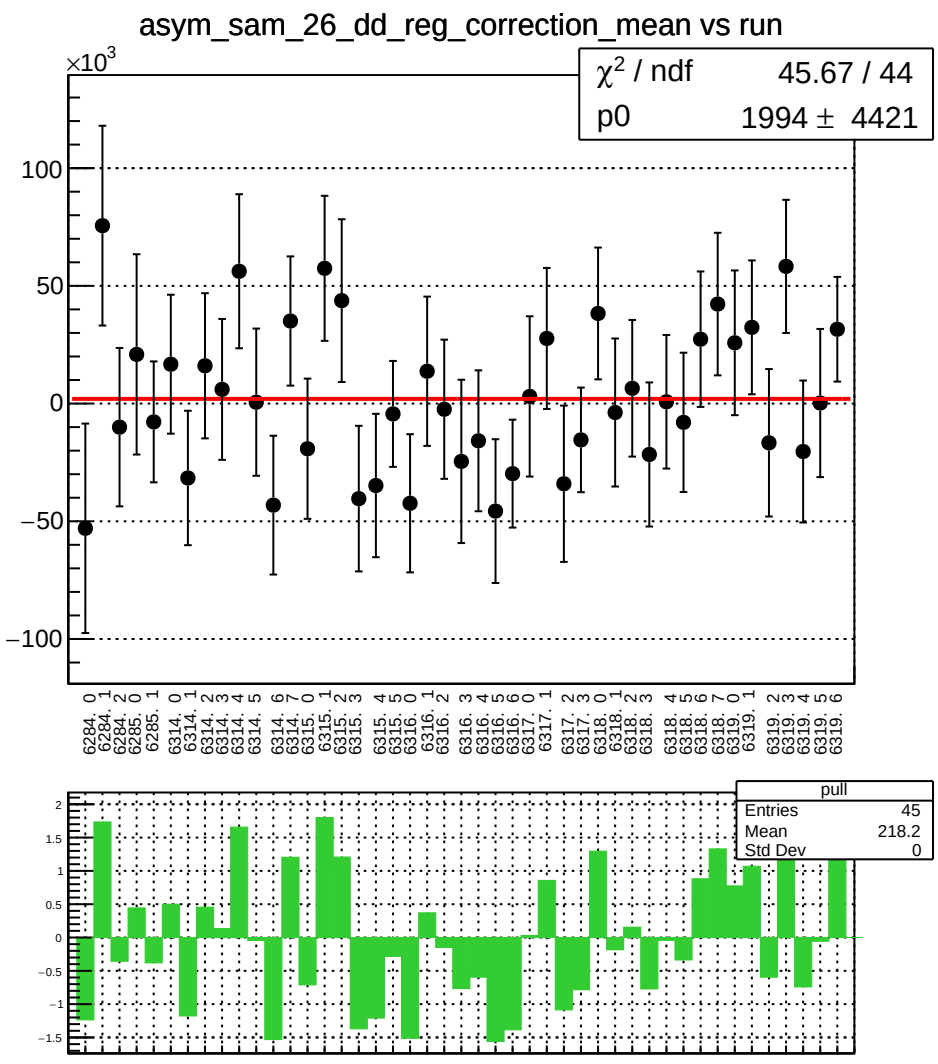

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9162 / 44
p0 26.42 ± 0.02788
32
30
28
26
24
22
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

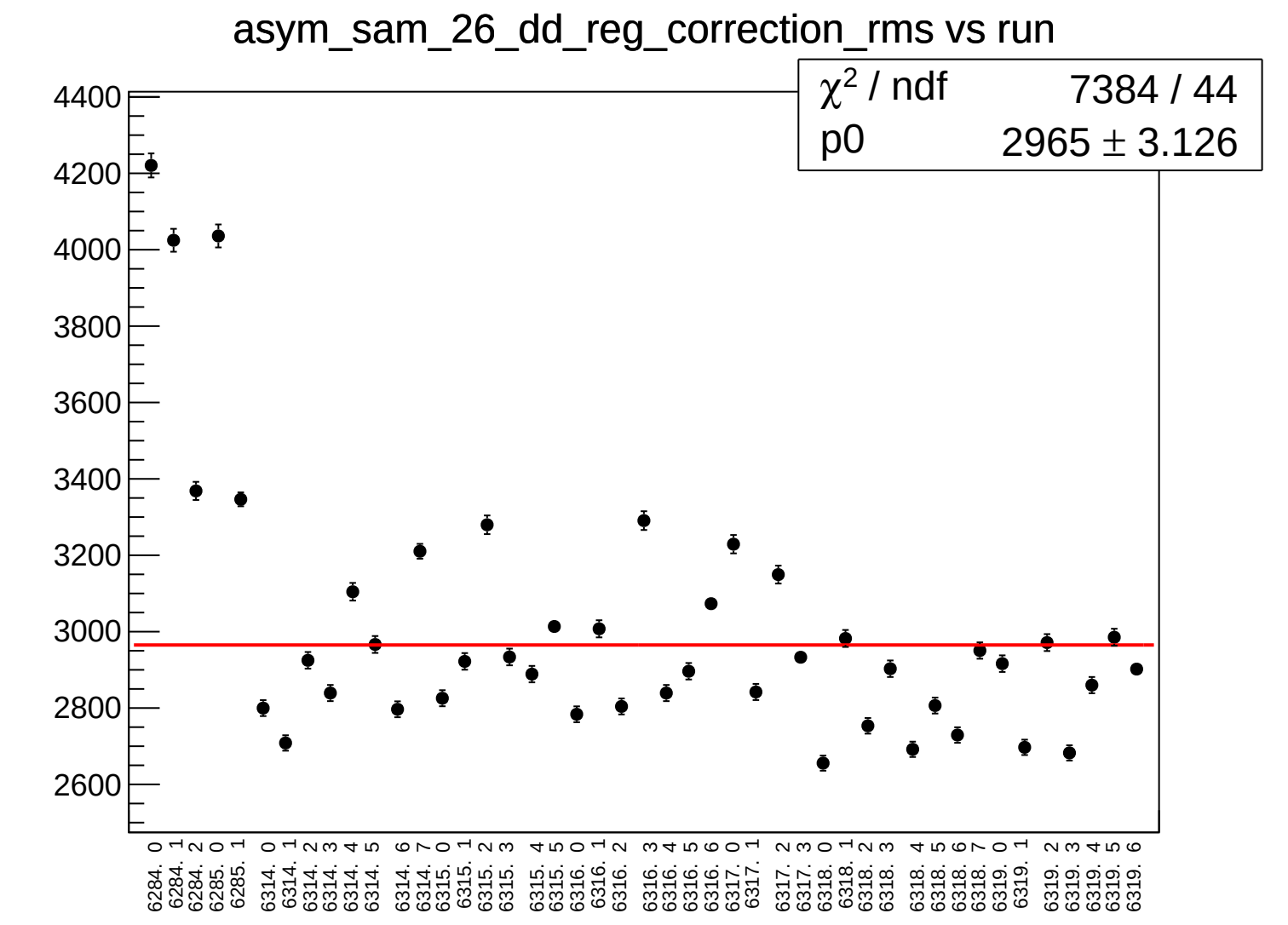

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 39.22 / 44
p0 −9.529e−15 ± 1.555e−14
1.5
1
0.5
0
−0.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 78.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 0.9333
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.184e+05 / 44
p0 9.122e−12 ± 1.099e−14
45
40
35
30
25
20
15
10
5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_26_dd_mean vs run
χ² / ndf 49.98 / 44
p0 −74.56 ± 282.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1559
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.001675
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_rms vs run
χ² / ndf 1380 / 44
p0 190.2 ± 0.1998
210
200
190
180
170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 45.67 / 44
p0 1994 ± 4421
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 218.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.007861
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 7384 / 44
p0 2965 ± 3.126
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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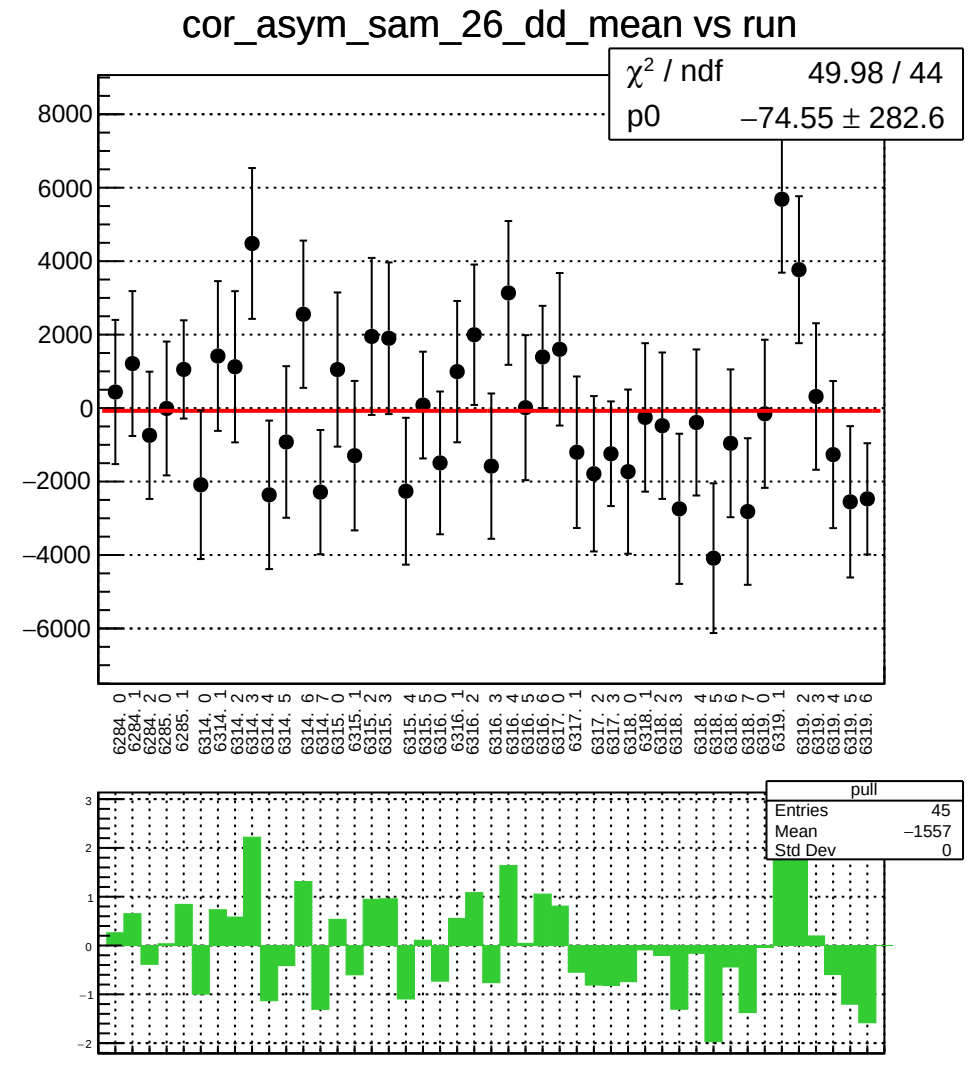
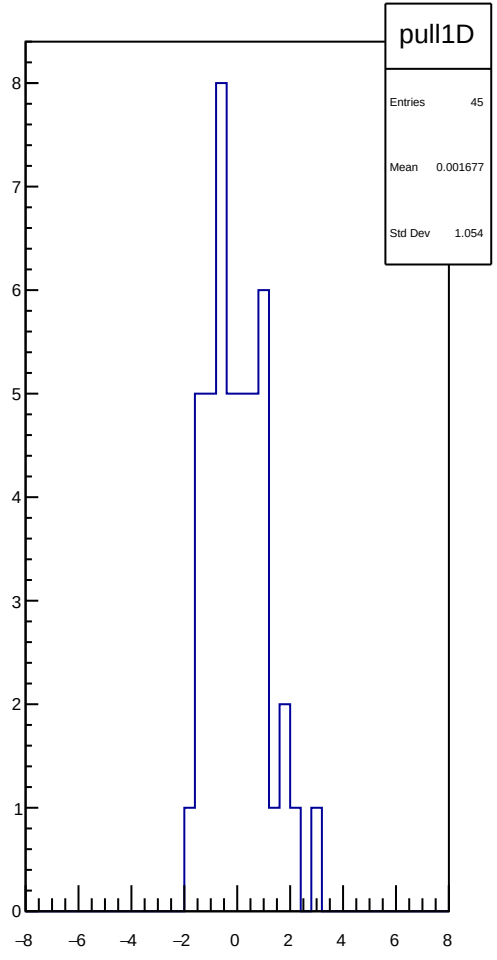
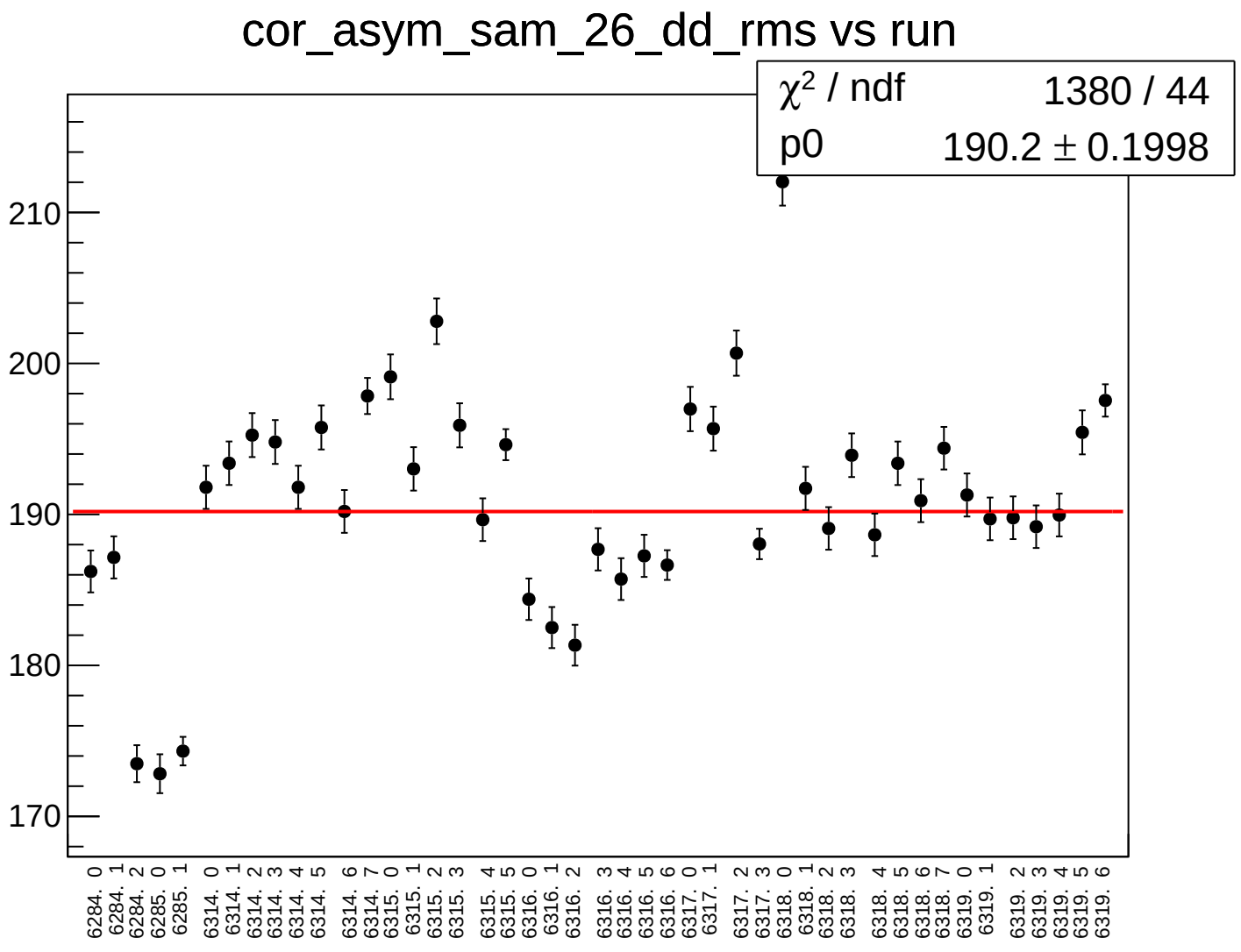
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_26_dd_mean vs run
χ² / ndf 49.98 / 44
p0 −74.55 ± 282.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1557
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.001677
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_dd_rms vs run
χ² / ndf 1380 / 44
p0 190.2 ± 0.1998
210
200
190
180
170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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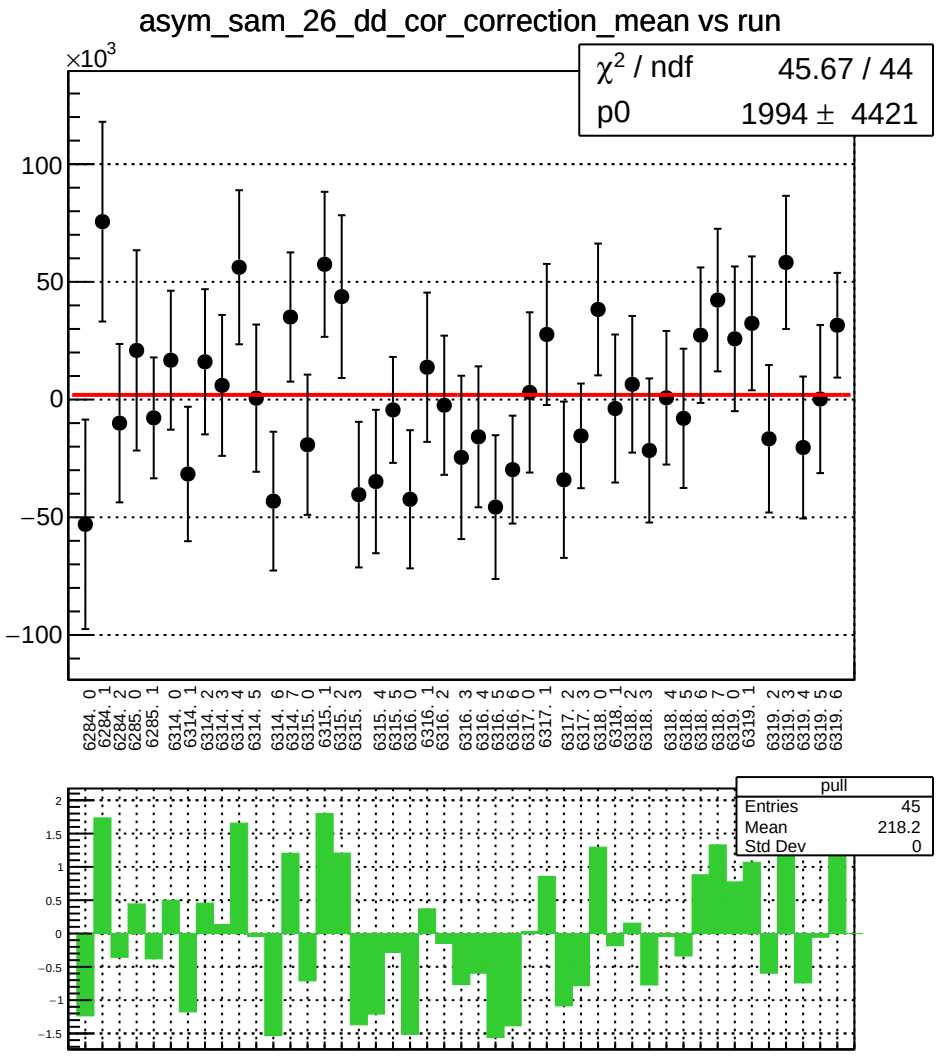
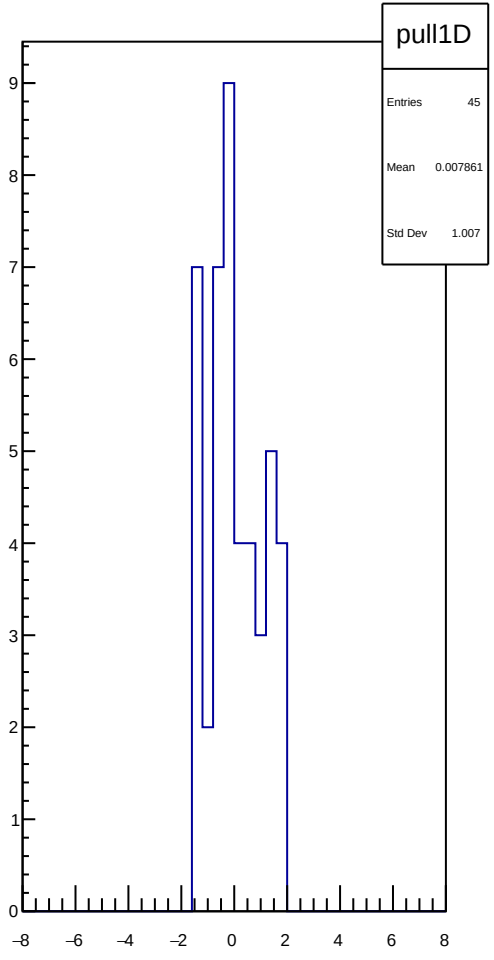
6319. 5
6319. 6


asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 45.67 / 44
p0 1994 ± 4421
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 218.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.007861
Std Dev 1.007
9
8
7
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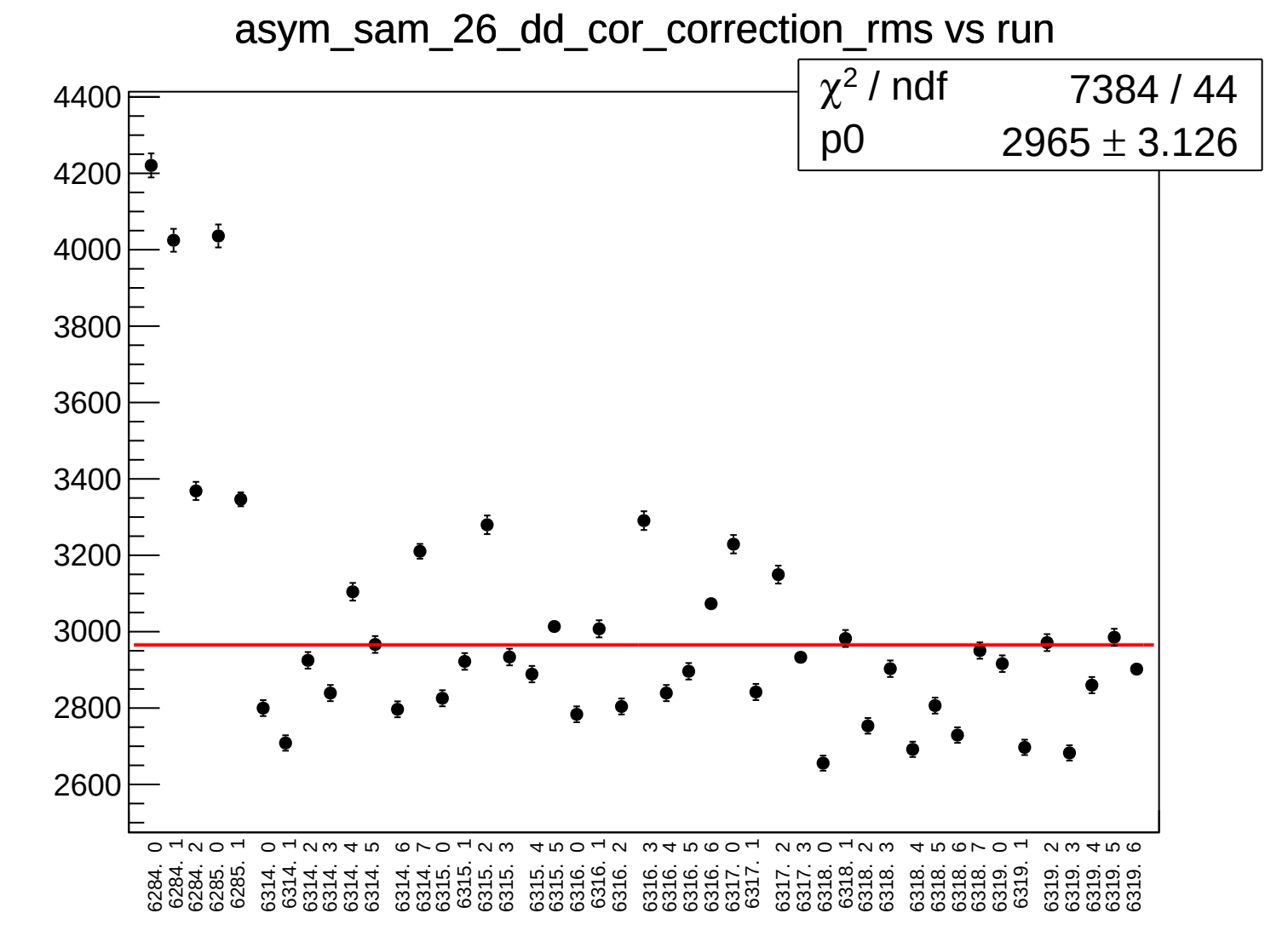
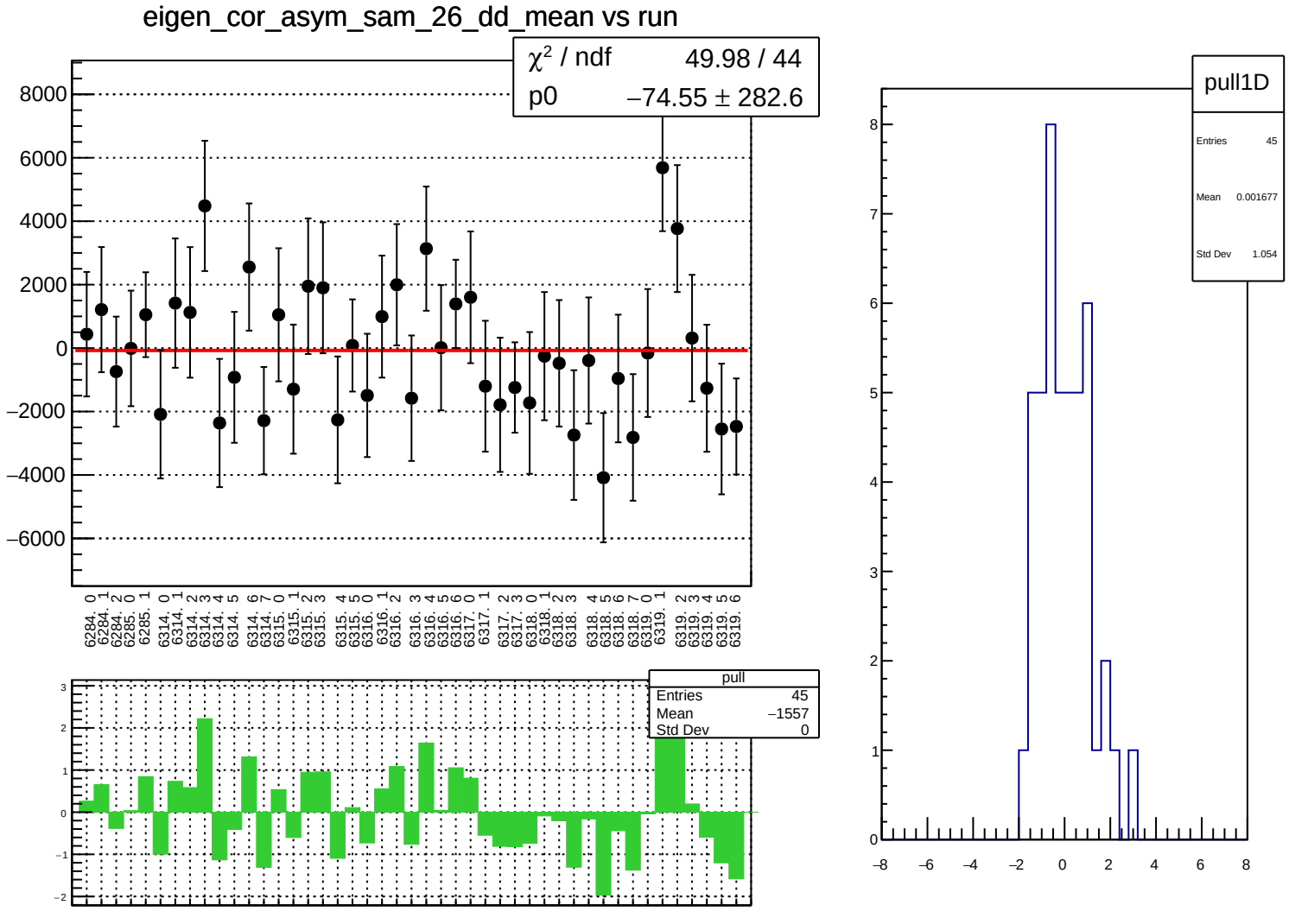
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 7384 / 44
p0 2965 ± 3.126
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 49.98 / 44
p0 −74.55 ± 282.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 7
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6315. 1
6315. 2
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6315. 4
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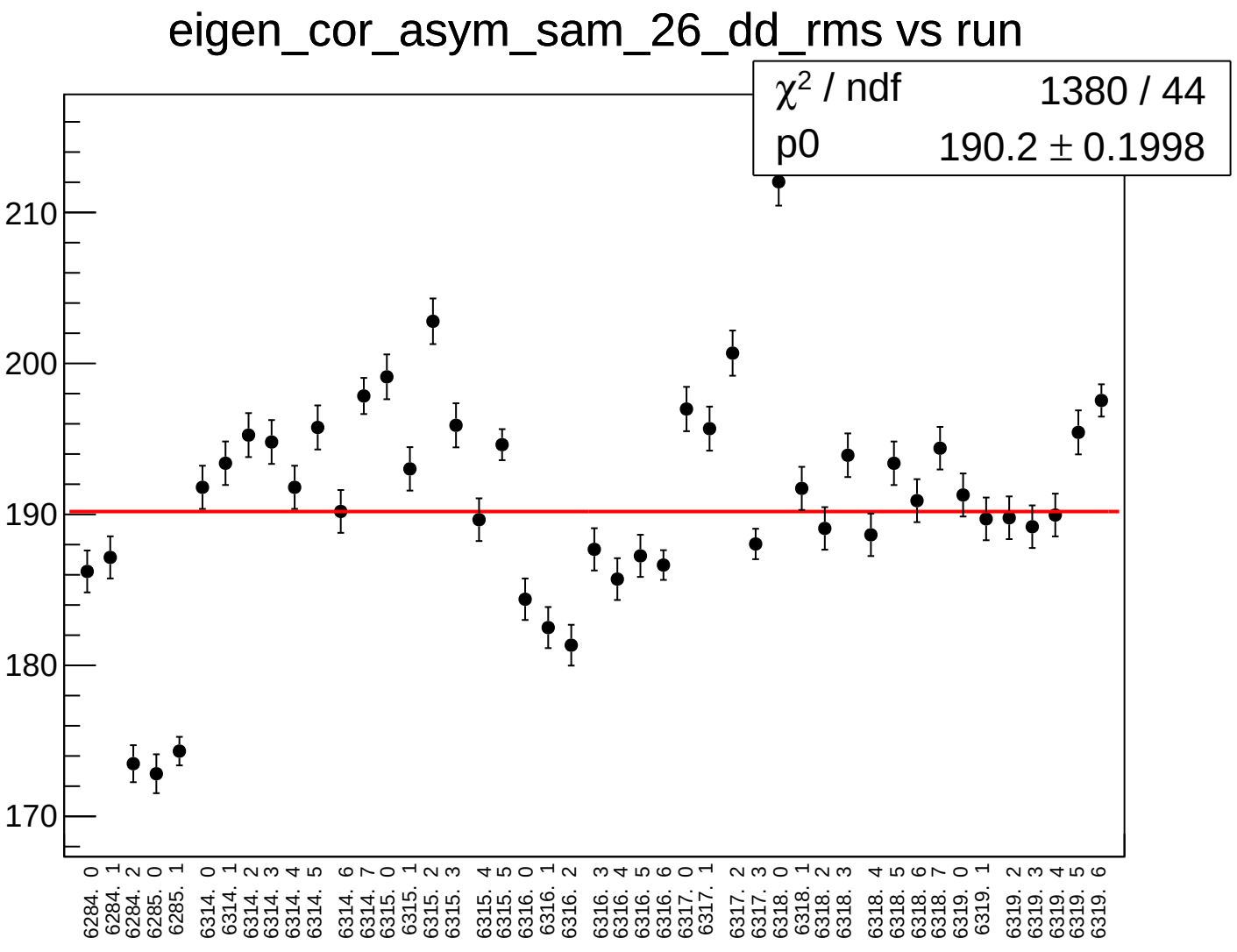
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1557
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.001677
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1380 / 44
p0 190.2 ± 0.1998
210
200
190
180
170
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6315. 1
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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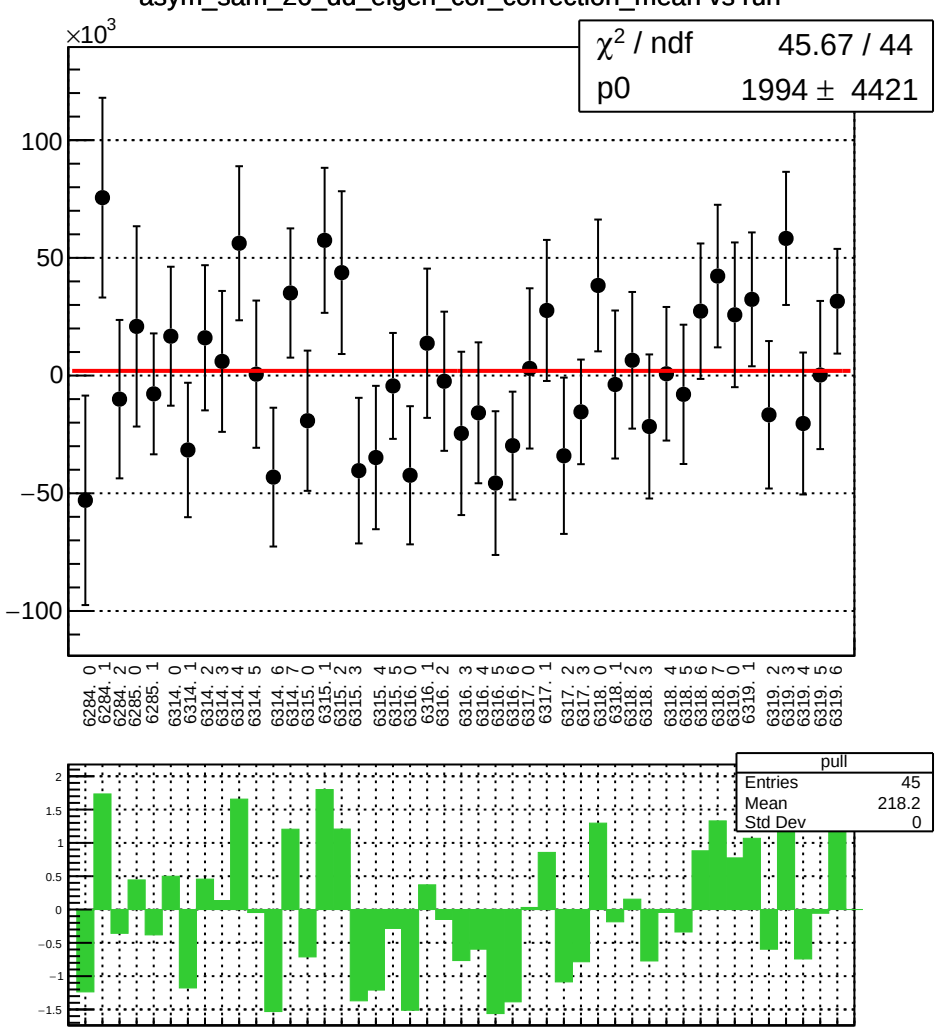
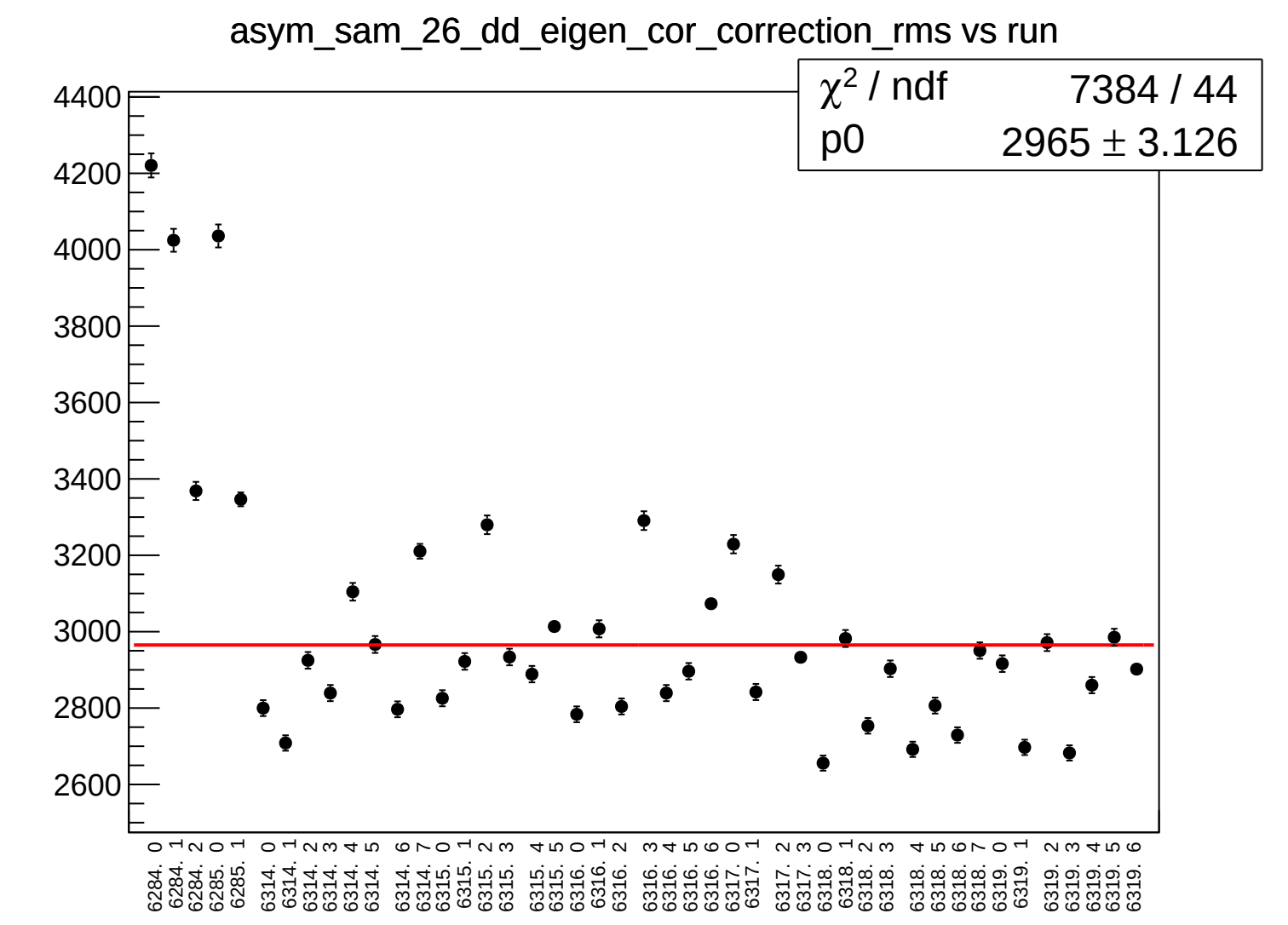
6319. 5
6319. 6


asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 45.67 / 44
p0 1994 ± 4421
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 218.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.007861
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7384 / 44
p0 2965 ± 3.126
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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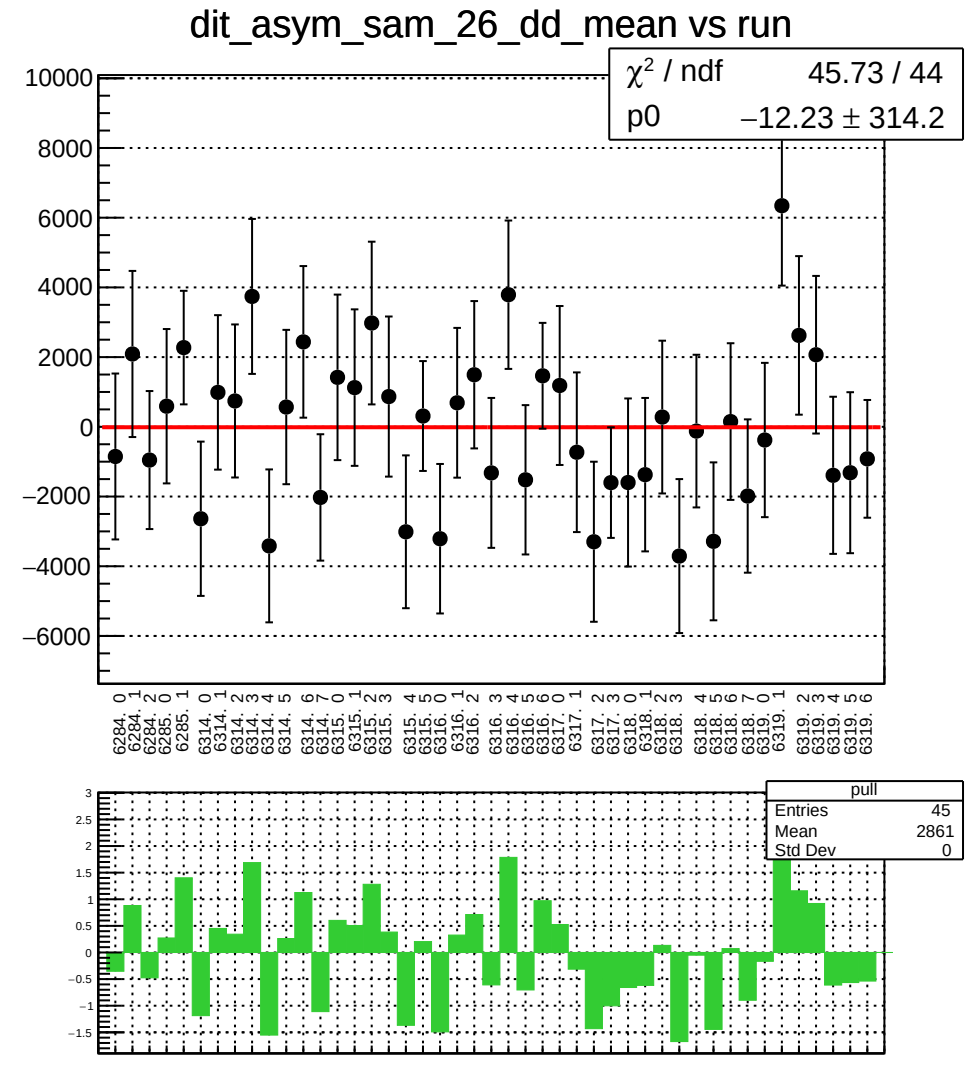
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_26_dd_mean vs run
χ² / ndf 45.73 / 44
p0 −12.23 ± 314.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 5
6316. 0
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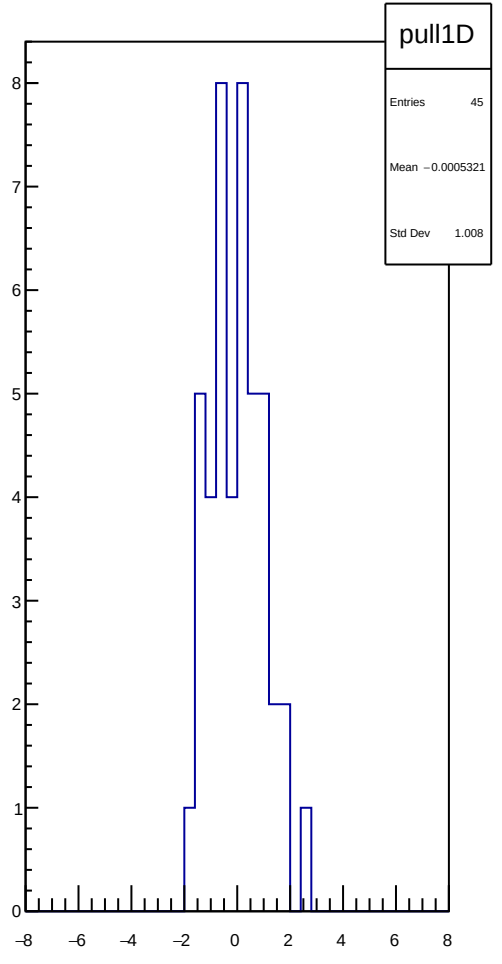
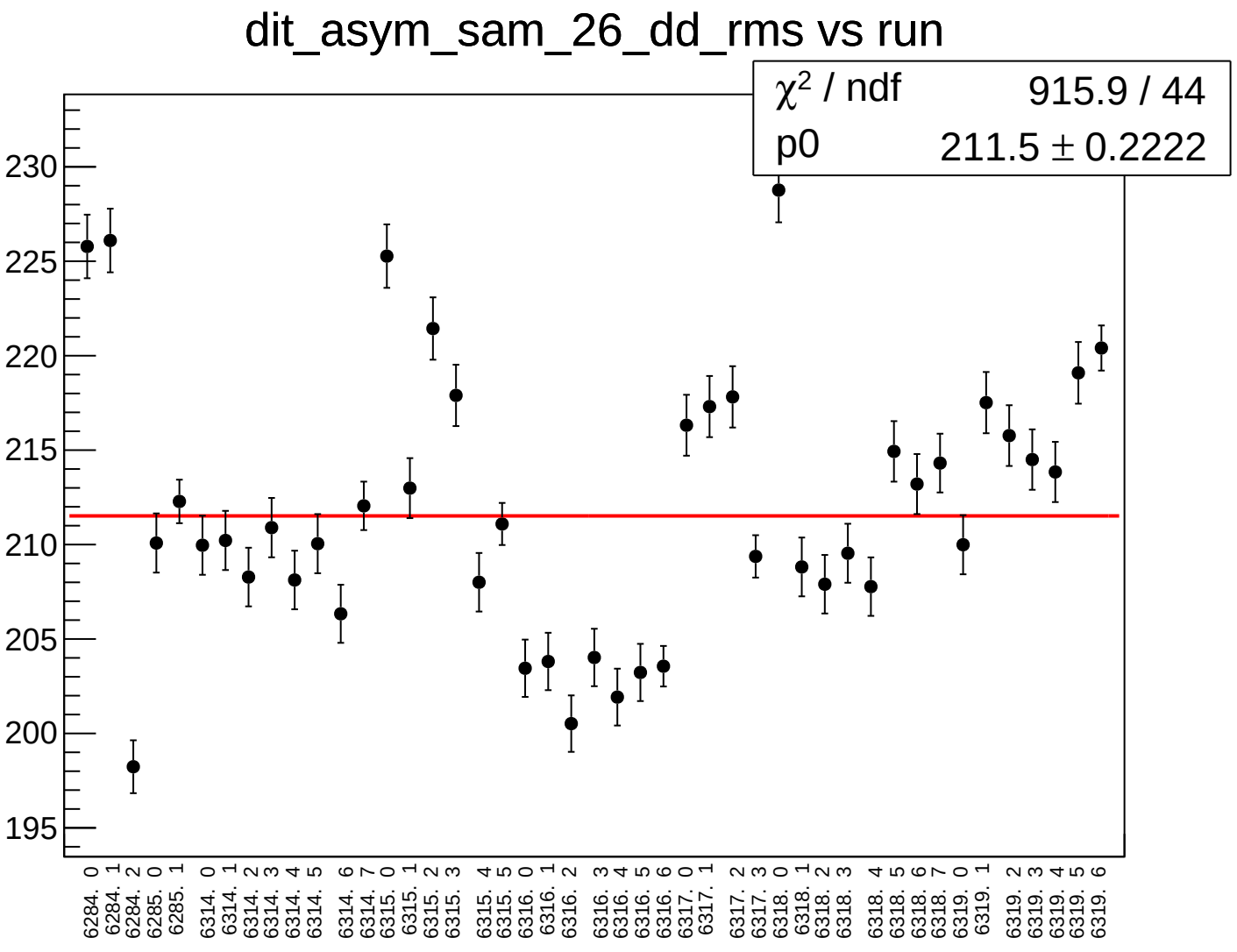
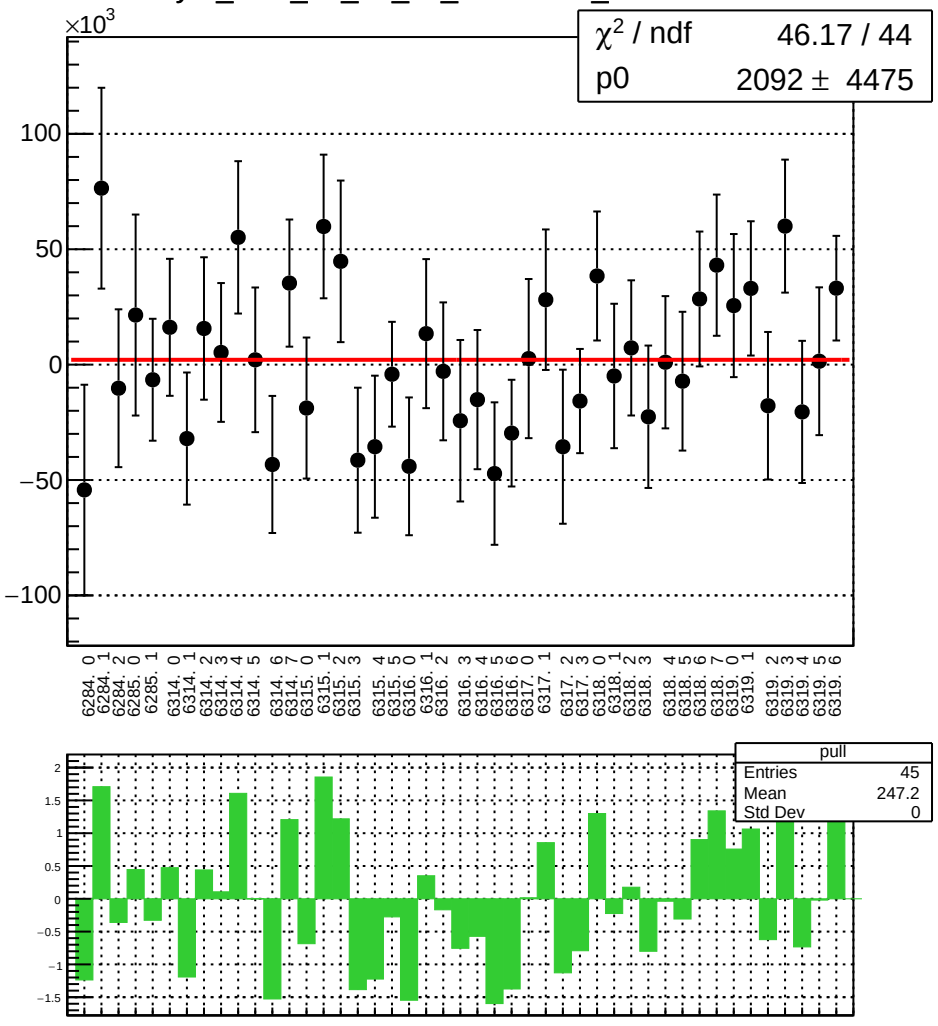
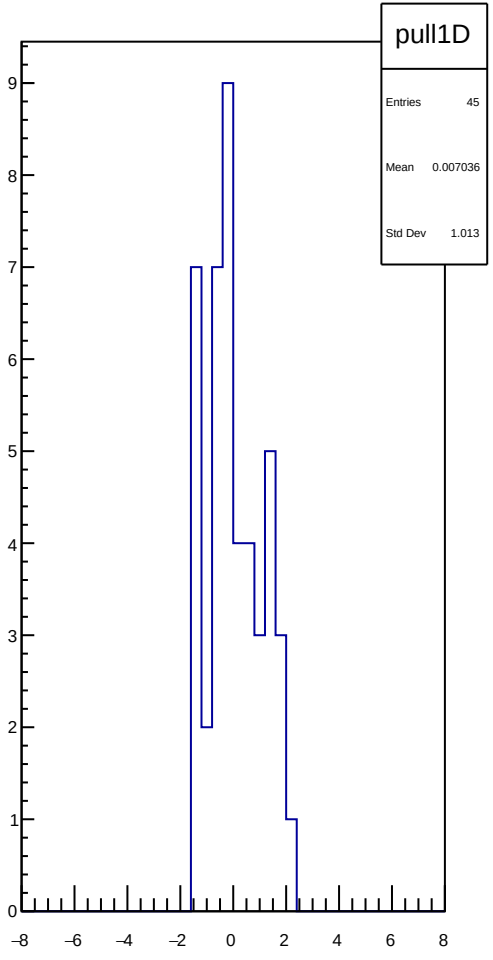
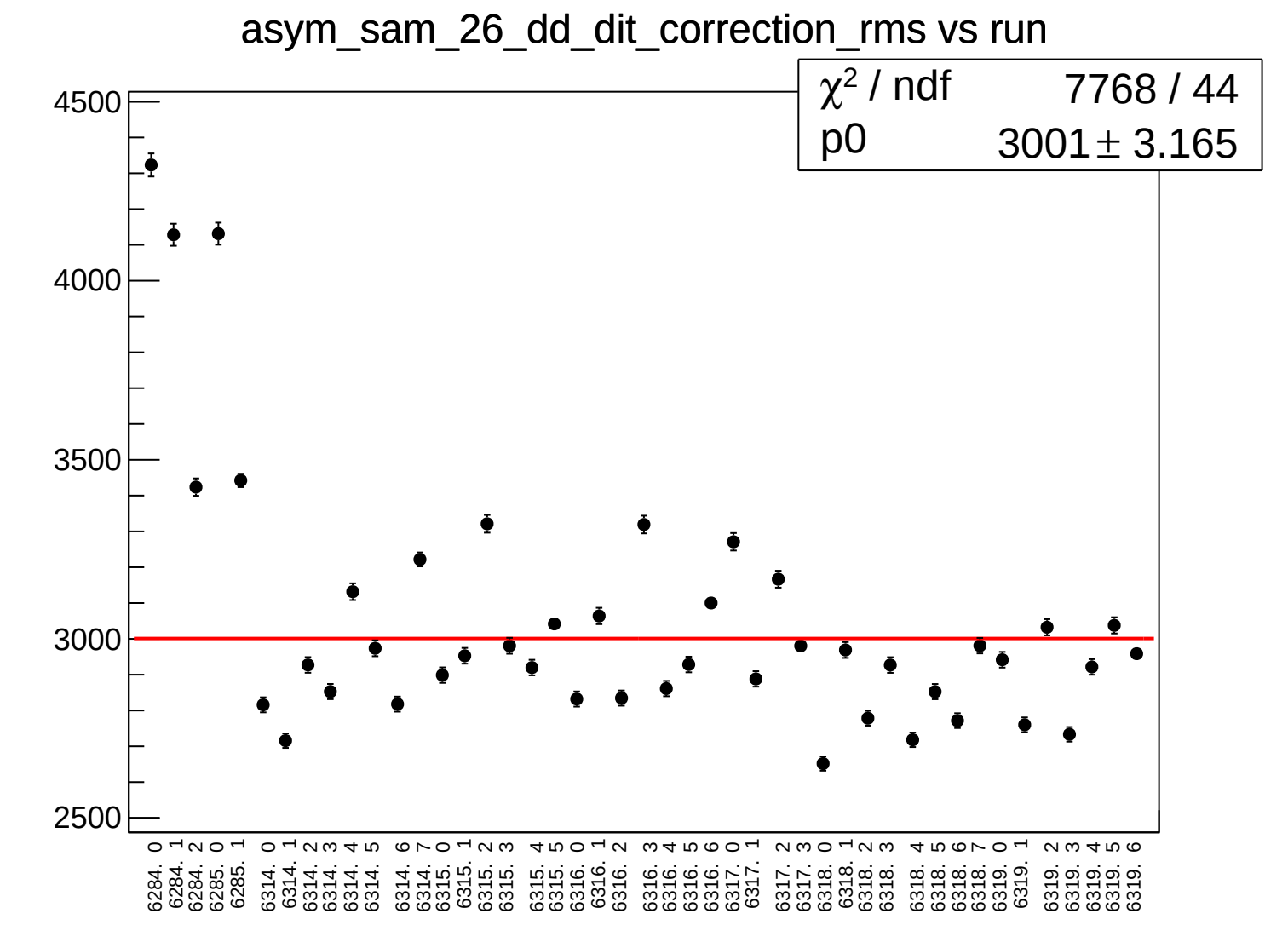
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2861
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

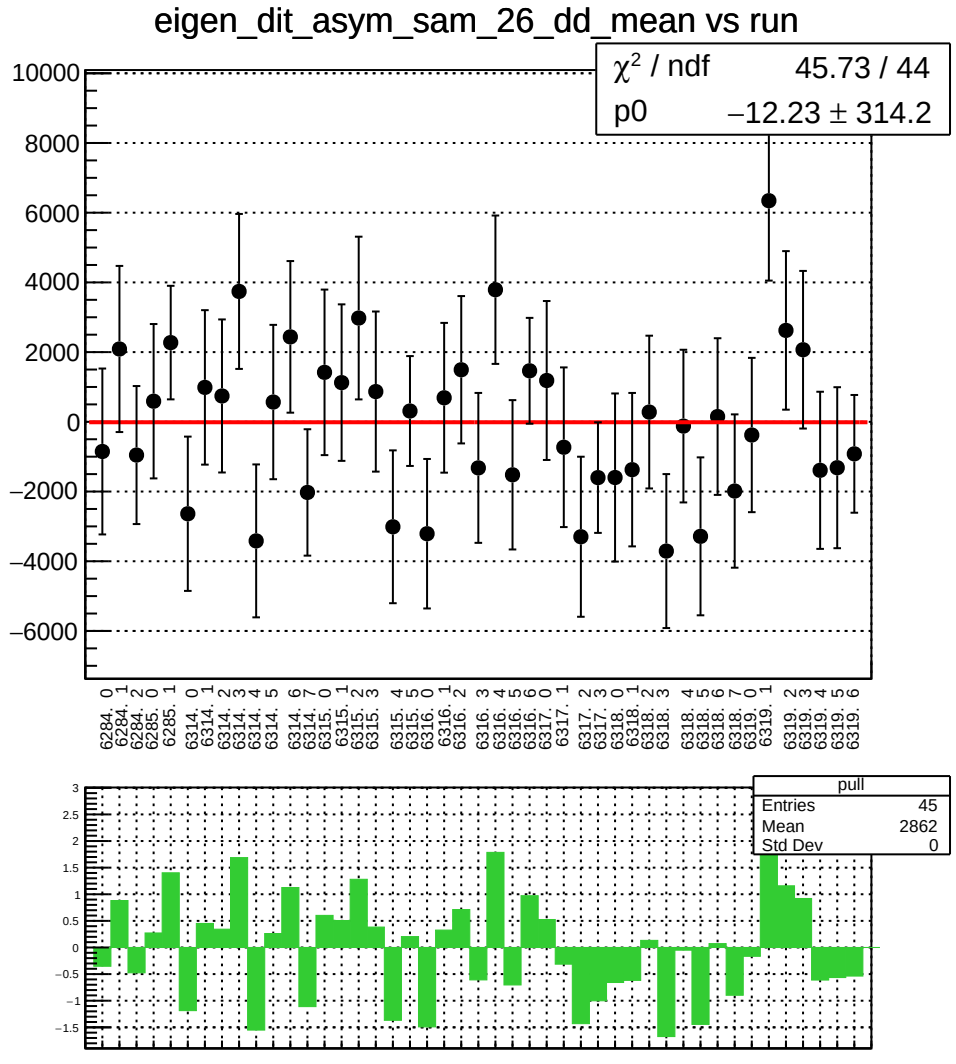

pull1D
Entries 45
Mean −0.0005321
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

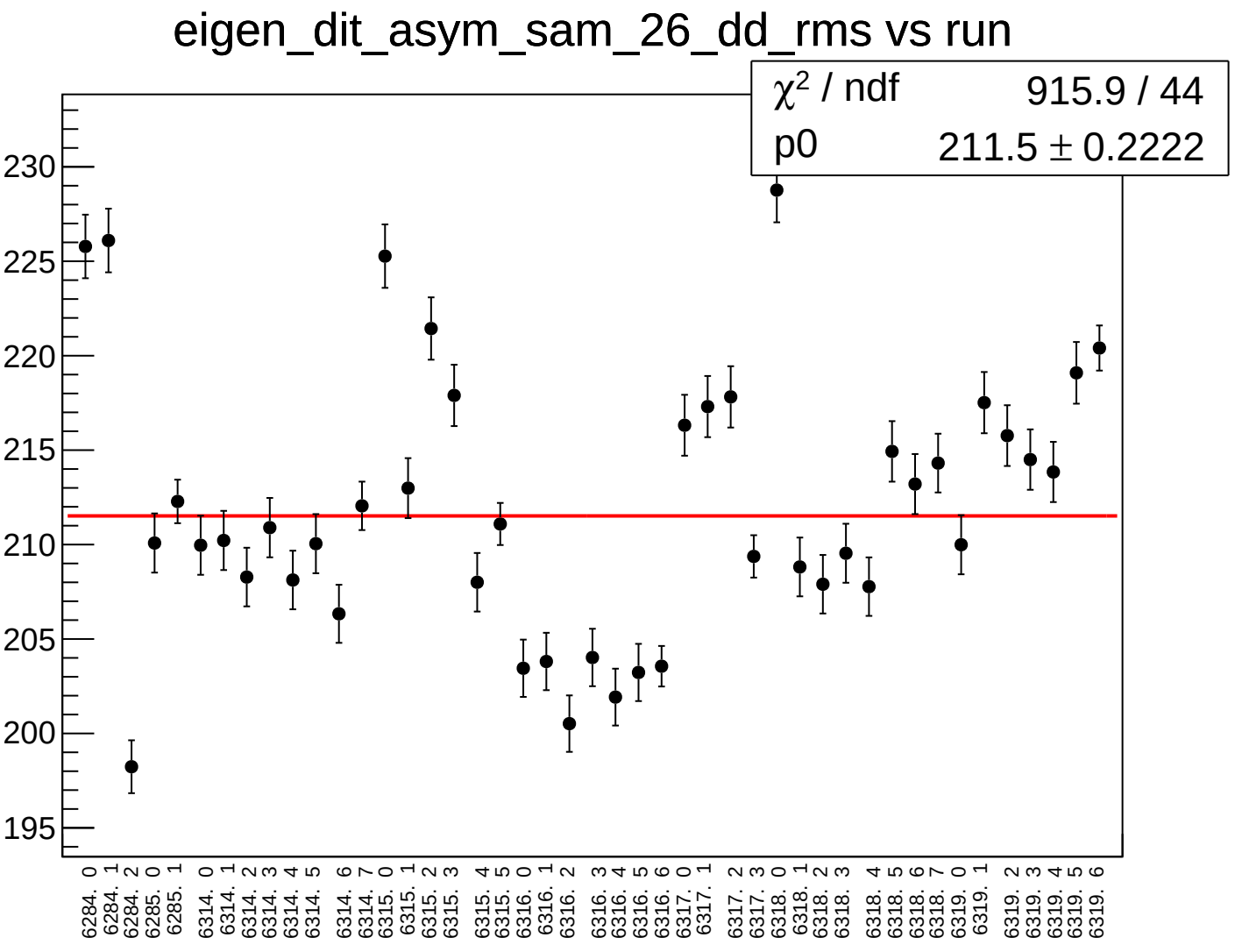

dit_asym_sam_26_dd_rms vs run
χ² / ndf 915.9 / 44
p0 211.5 ± 0.2222
230
225
220
215
210
205
200
195
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

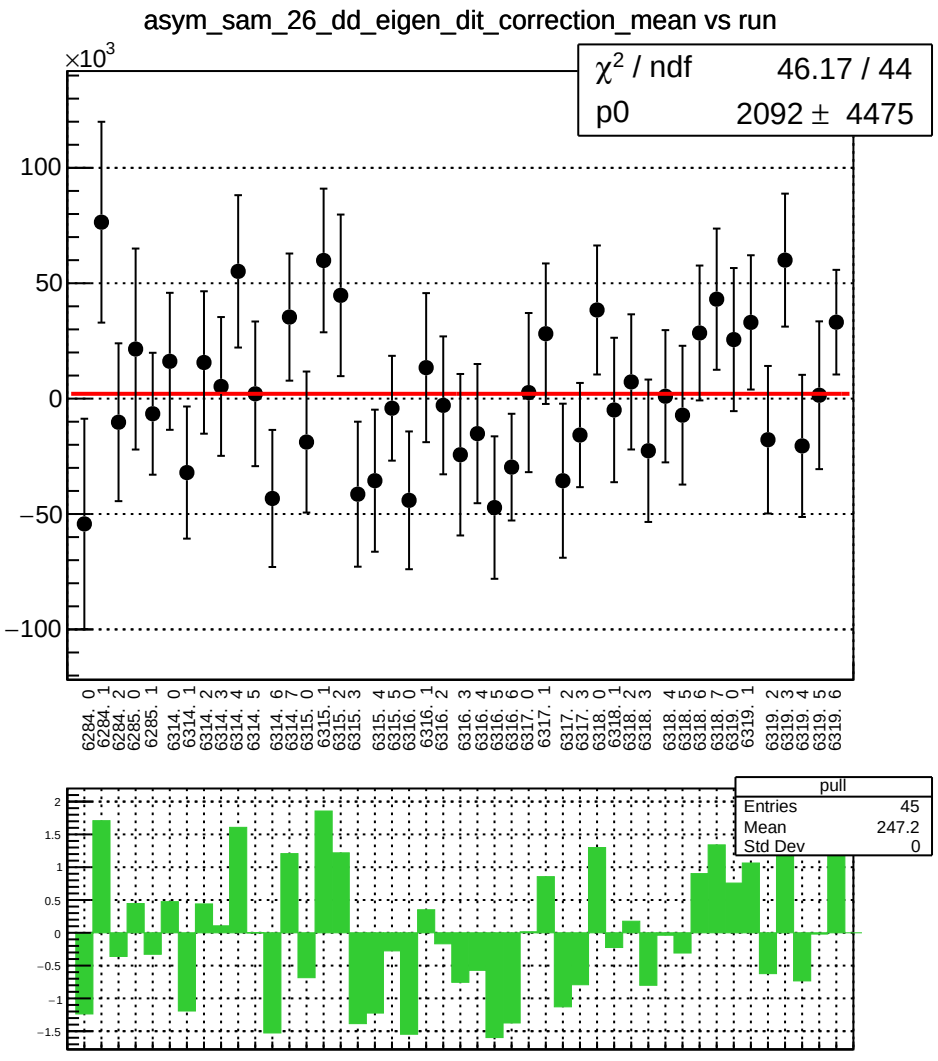

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 46.17 / 44
p0 2092 ± 4475
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 247.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

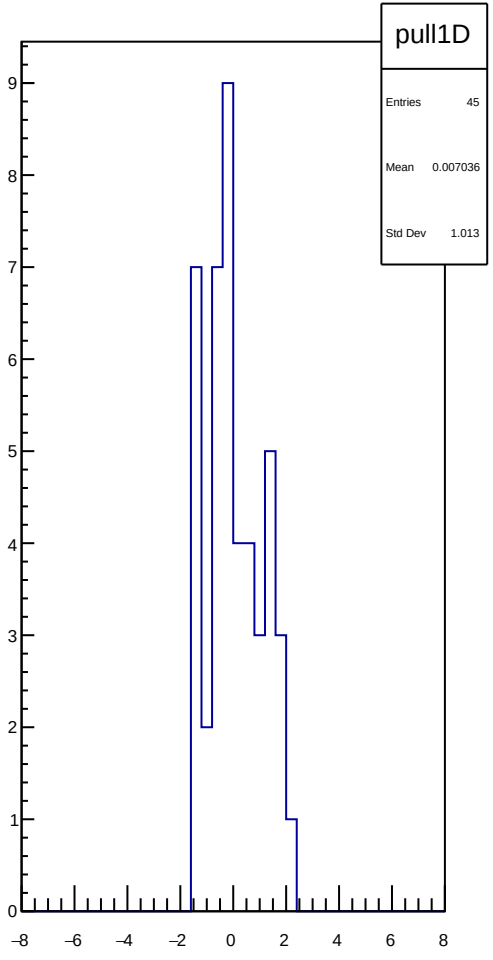

pull1D
Entries 45
Mean 0.007036
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

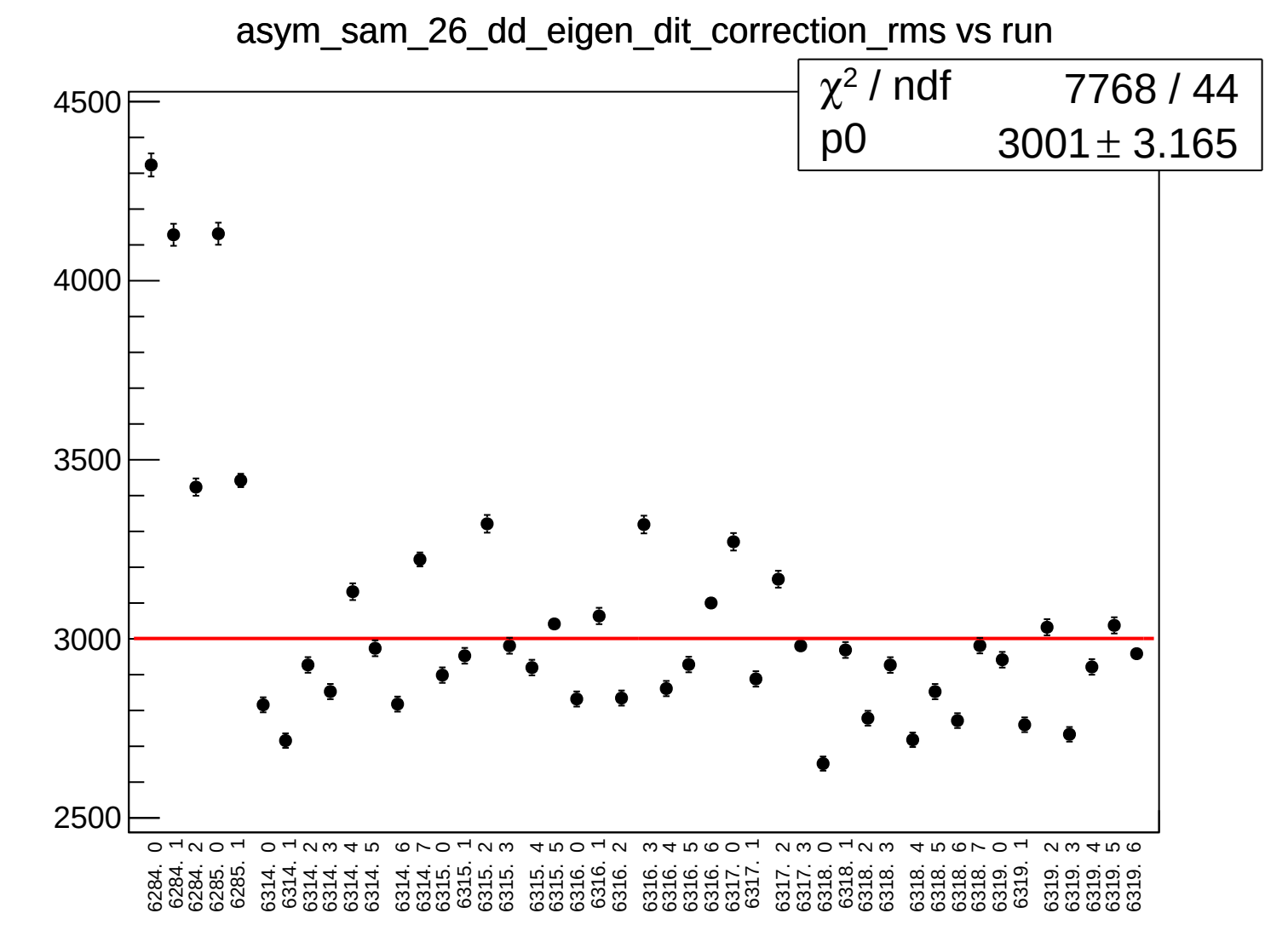

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 7768 / 44
p0 3001 ± 3.165
4500
4000
3500
3000
2500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

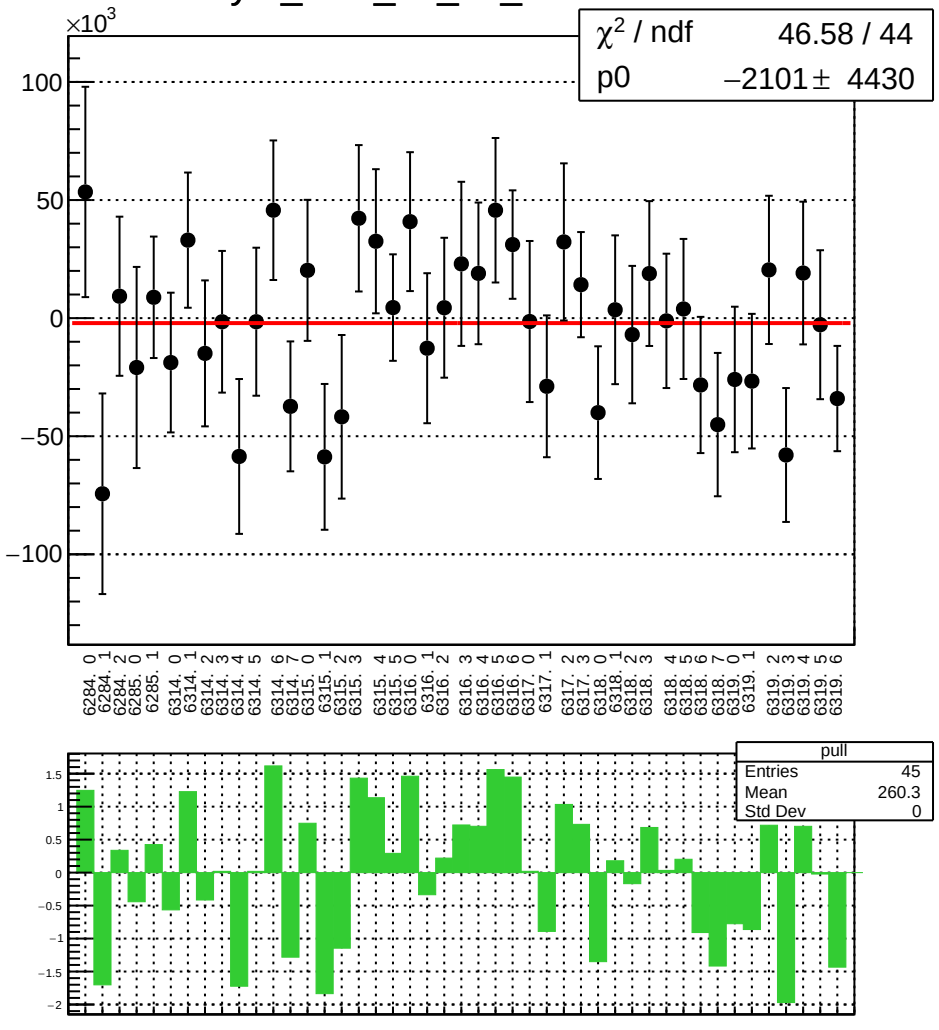

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 45.73 / 44
p0 −12.23 ± 314.2
pull
Entries 45
Mean 2862
Std Dev 0
pull1D
Entries 45
Mean −0.000532
Std Dev 1.008

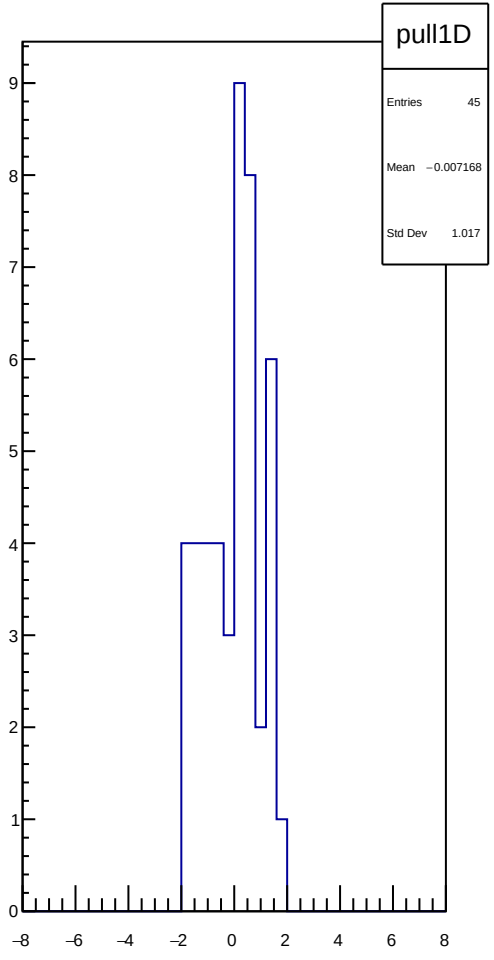

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 915.9 / 44
p0 211.5 ± 0.2222
230
225
220
215
210
205
200
195
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

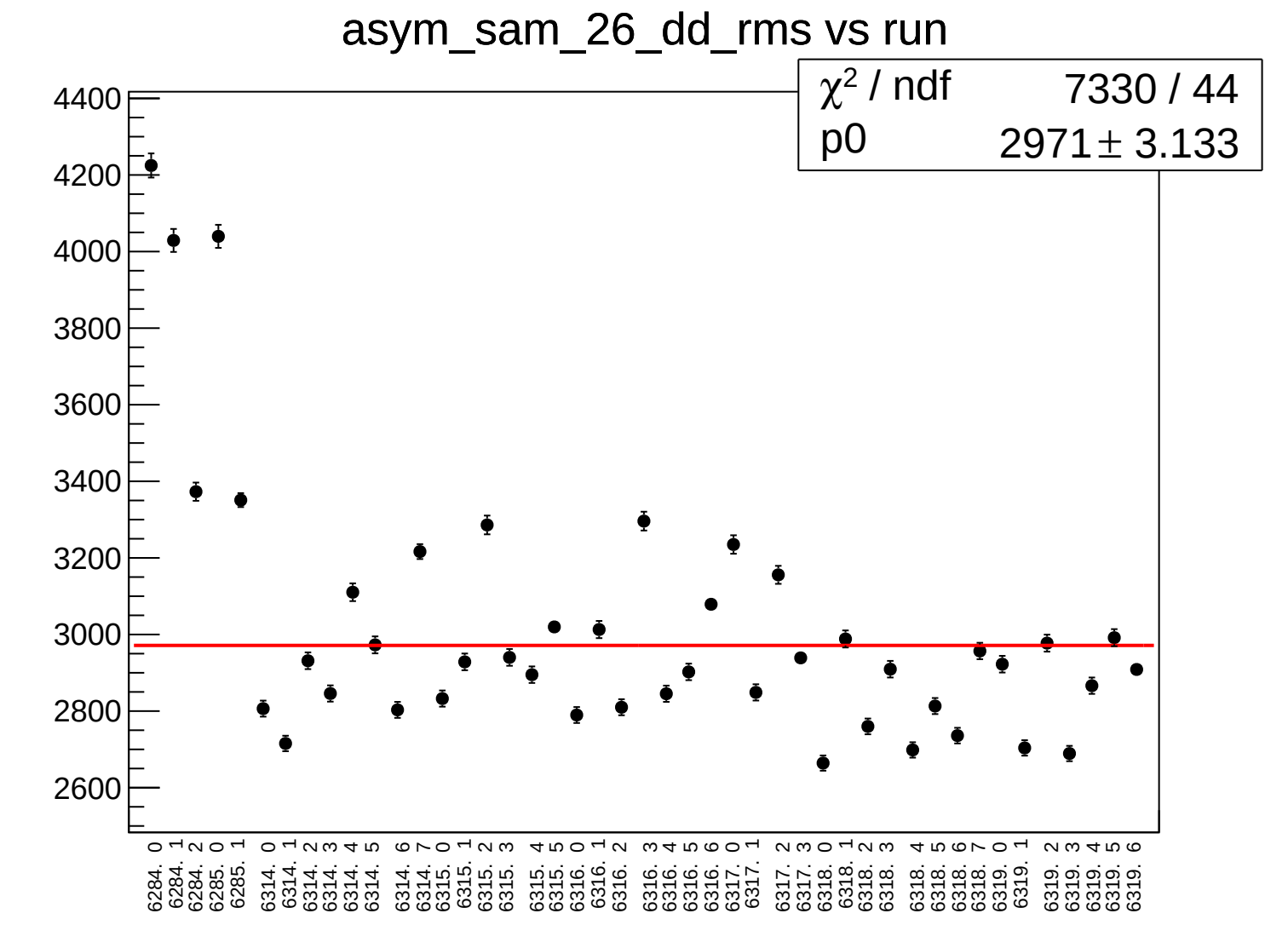

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 46.17 / 44
p0 2092 ± 4475
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 247.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

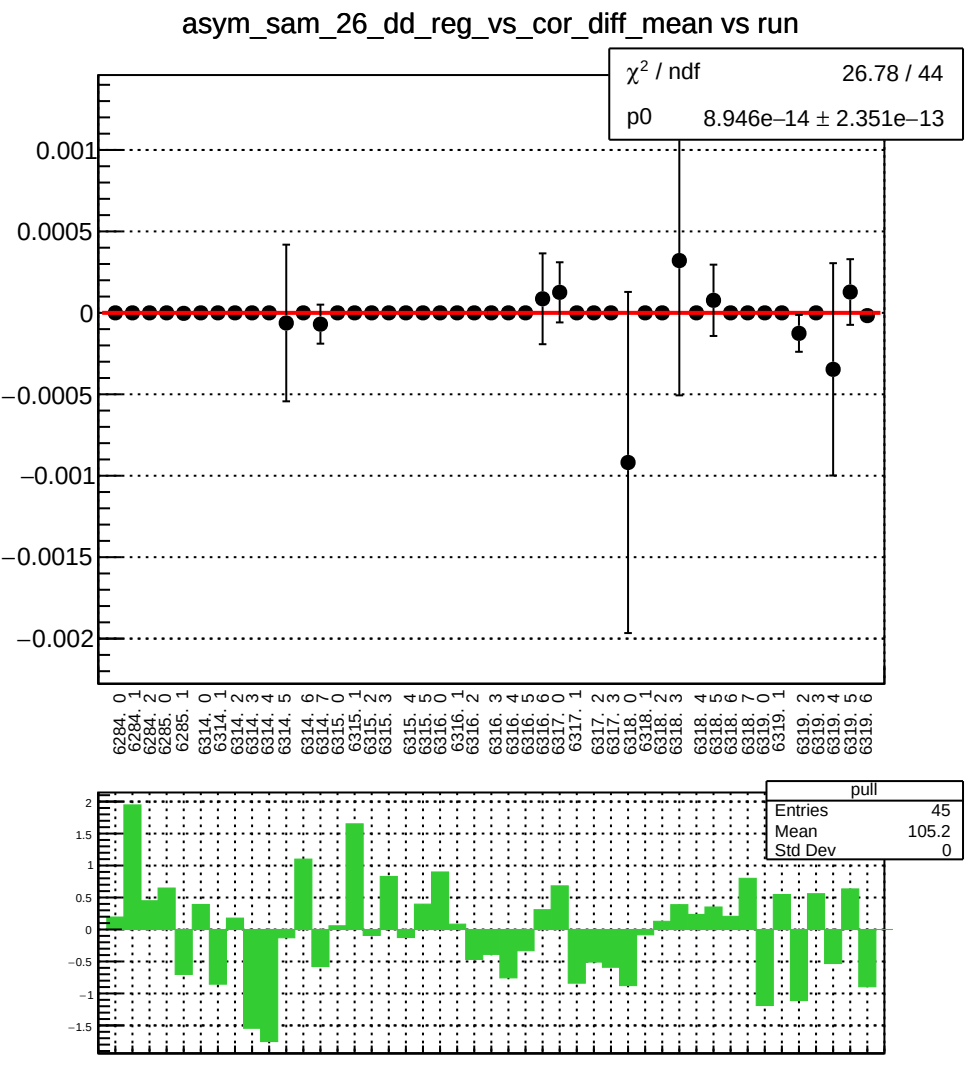

pull1D
Entries 45
Mean 0.007036
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

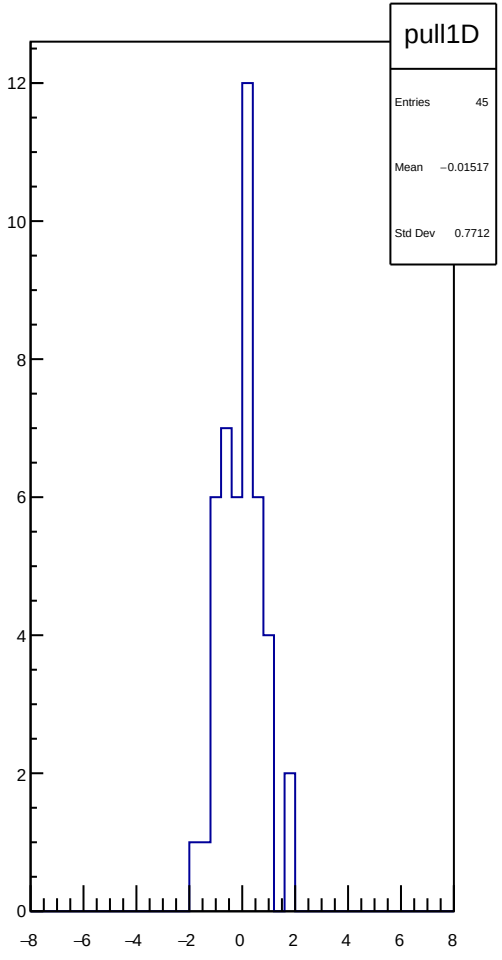

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7768 / 44
p0 3001 ± 3.165
4500
4000
3500
3000
2500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

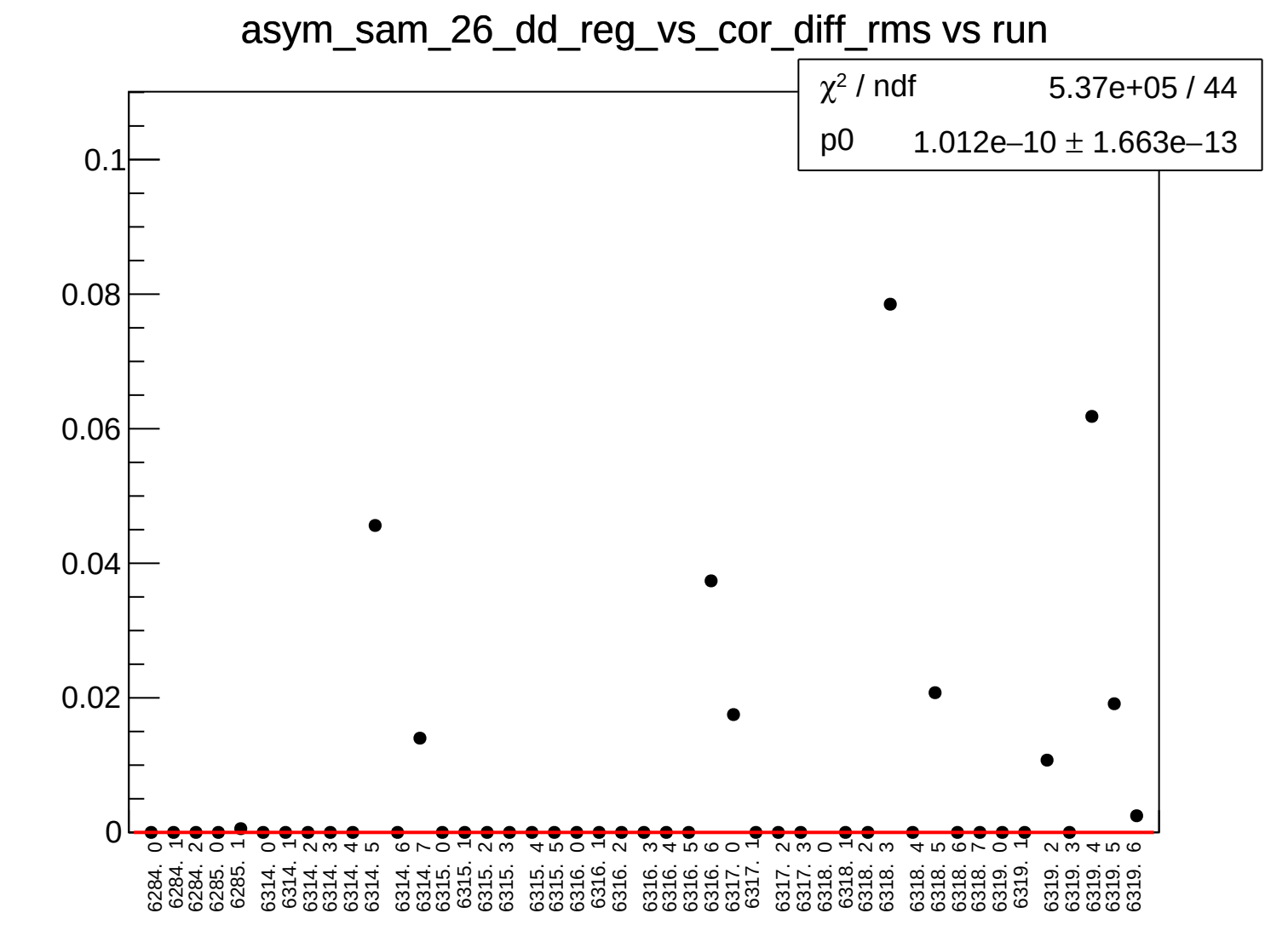

asym_sam_26_dd_mean vs run
χ² / ndf 46.58 / 44
p0 −2101 ± 4430
×10³
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 260.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

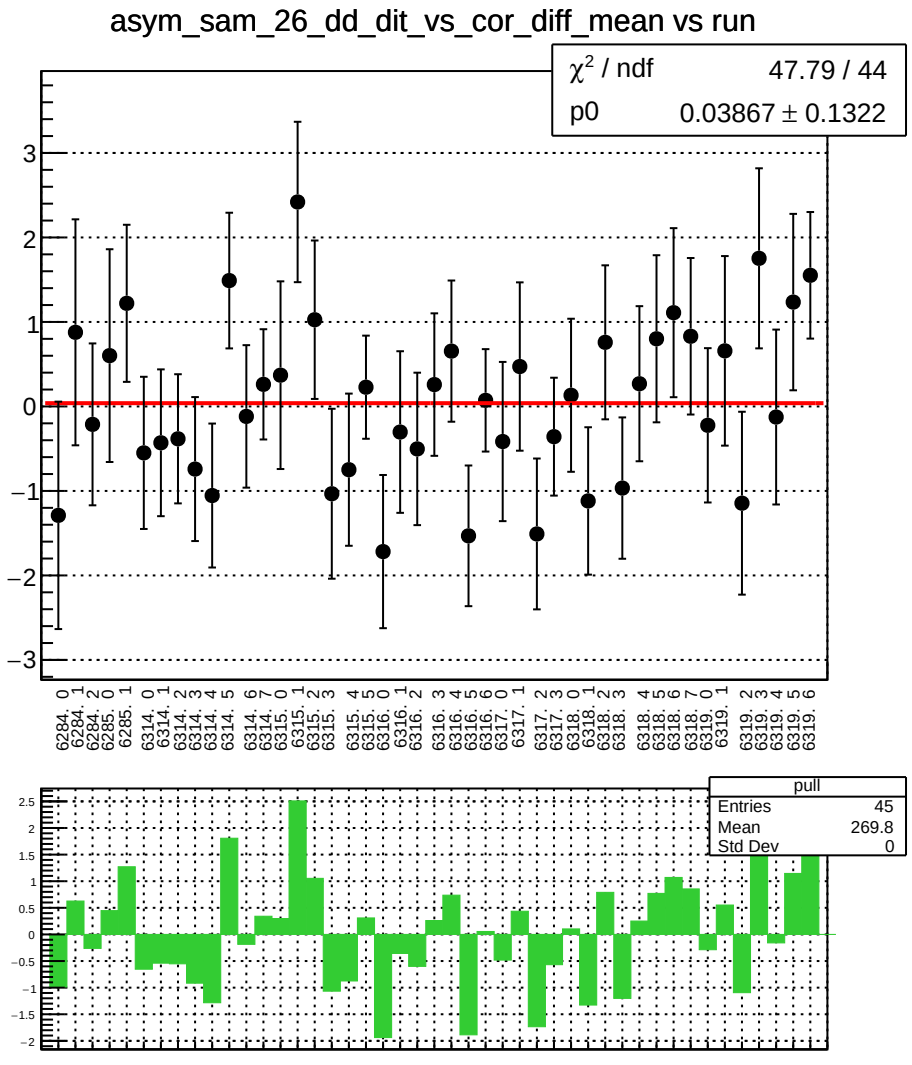

pull1D
Entries 45
Mean −0.007168
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

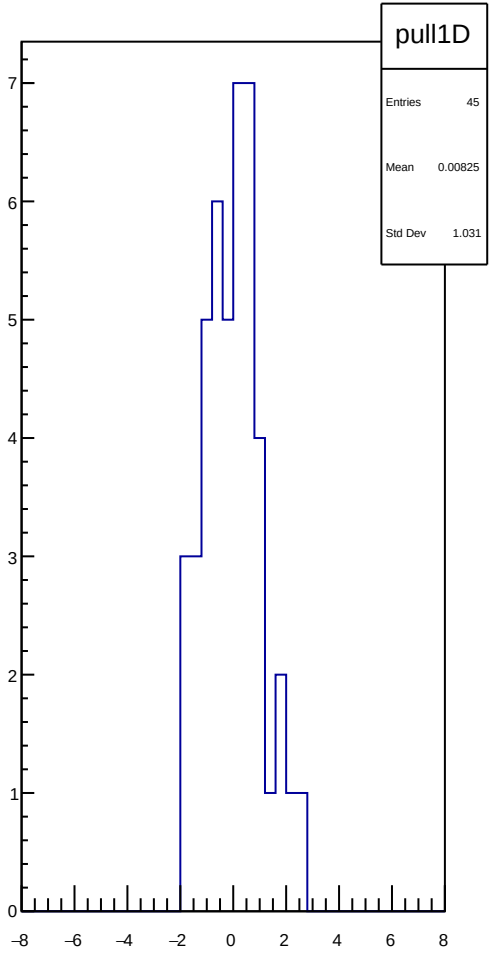

asym_sam_26_dd_rms vs run
χ² / ndf 7330 / 44
p0 2971 ± 3.133
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

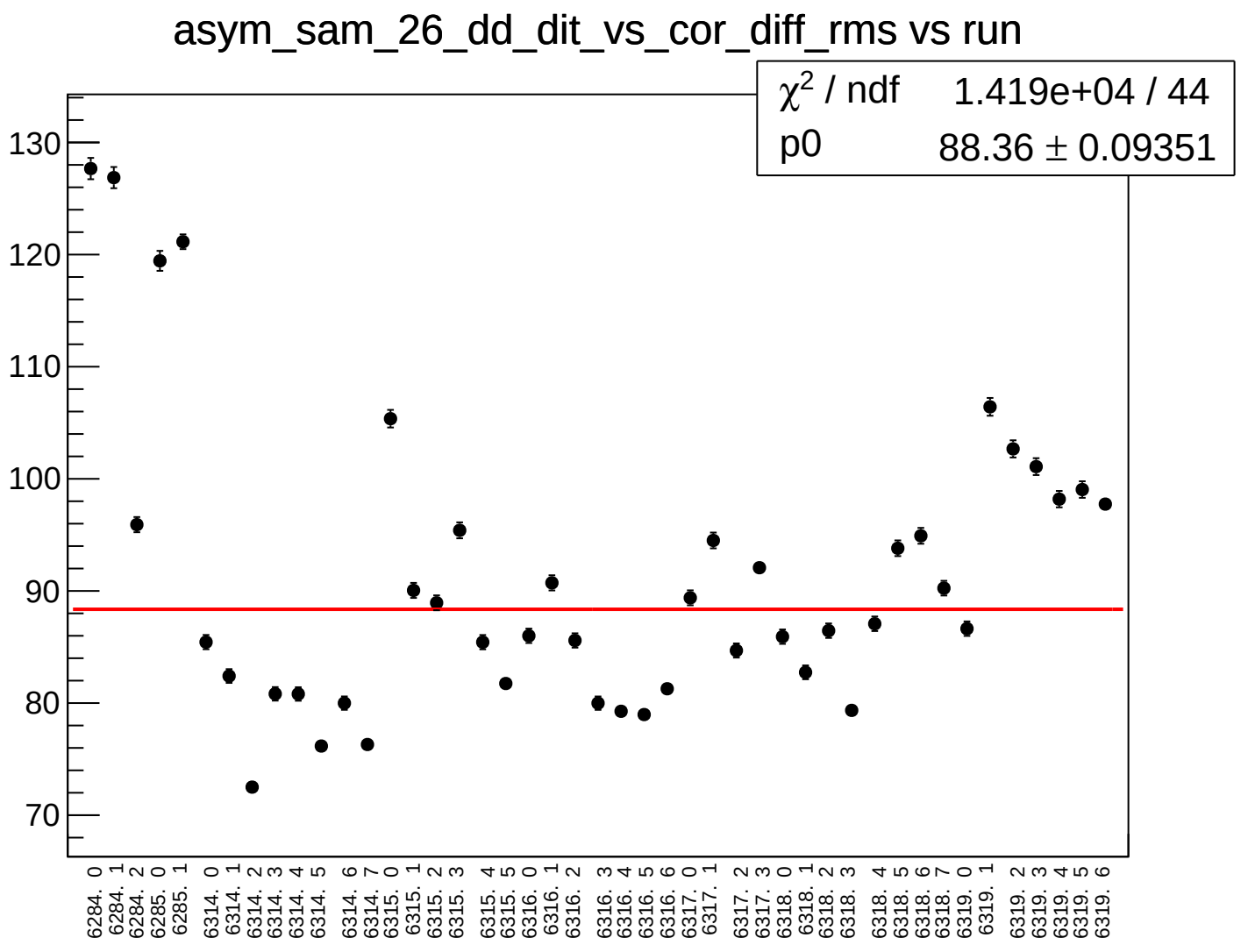

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.78 / 44
p0 8.946e−14 ± 2.351e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 105.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

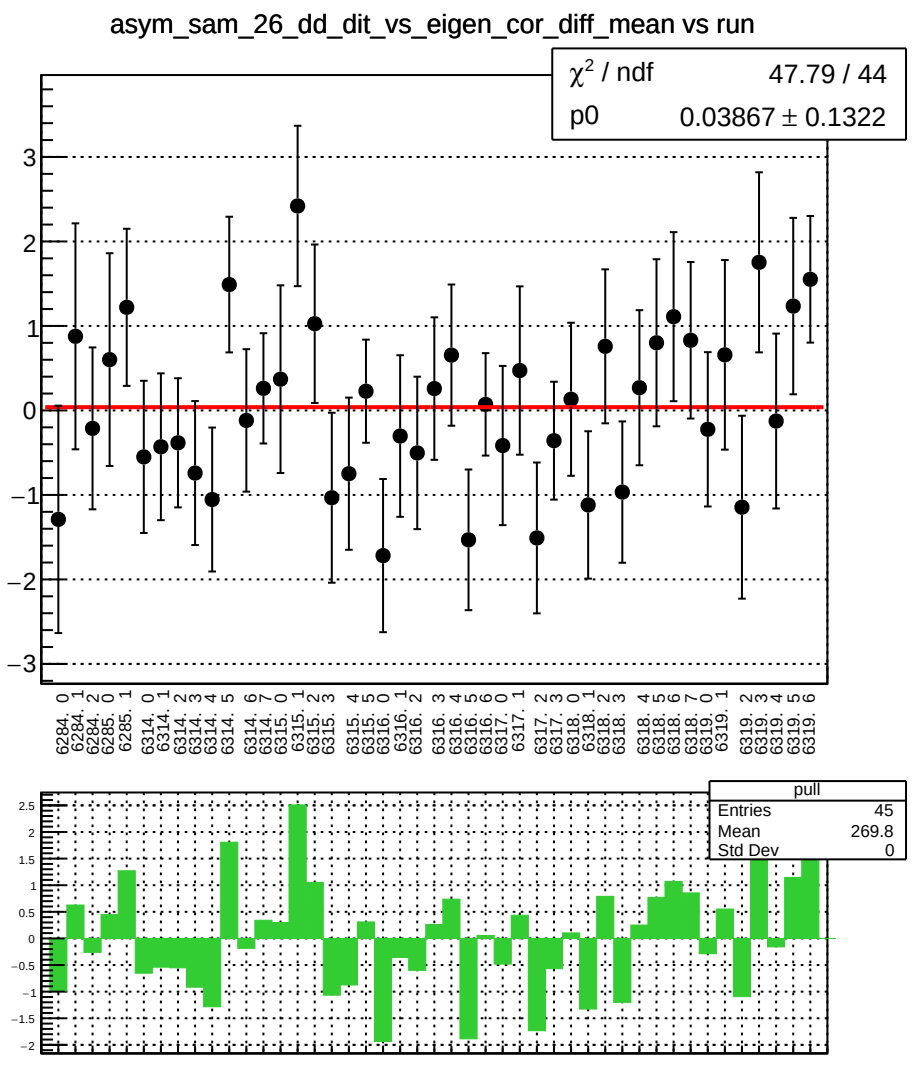

pull1D
Entries 45
Mean −0.01517
Std Dev 0.7712
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

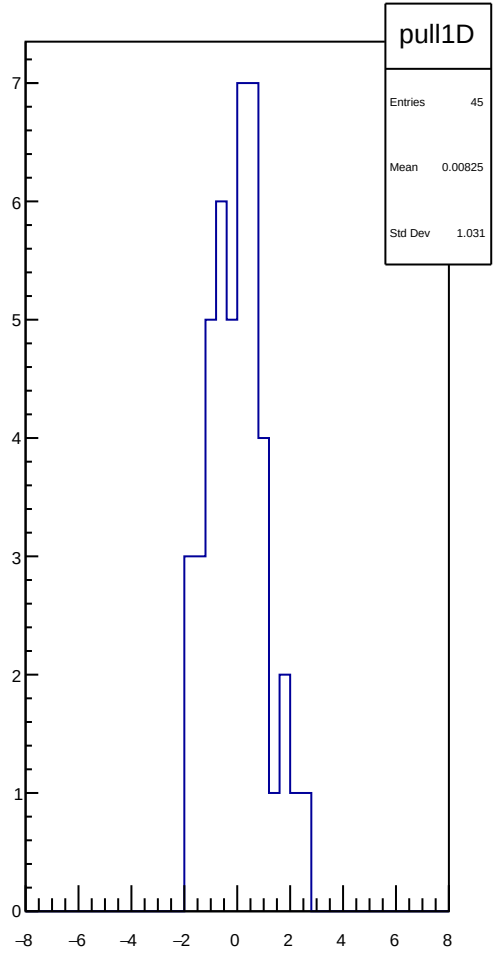

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.37e+05 / 44
p0 1.012e−10 ± 1.663e−13
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

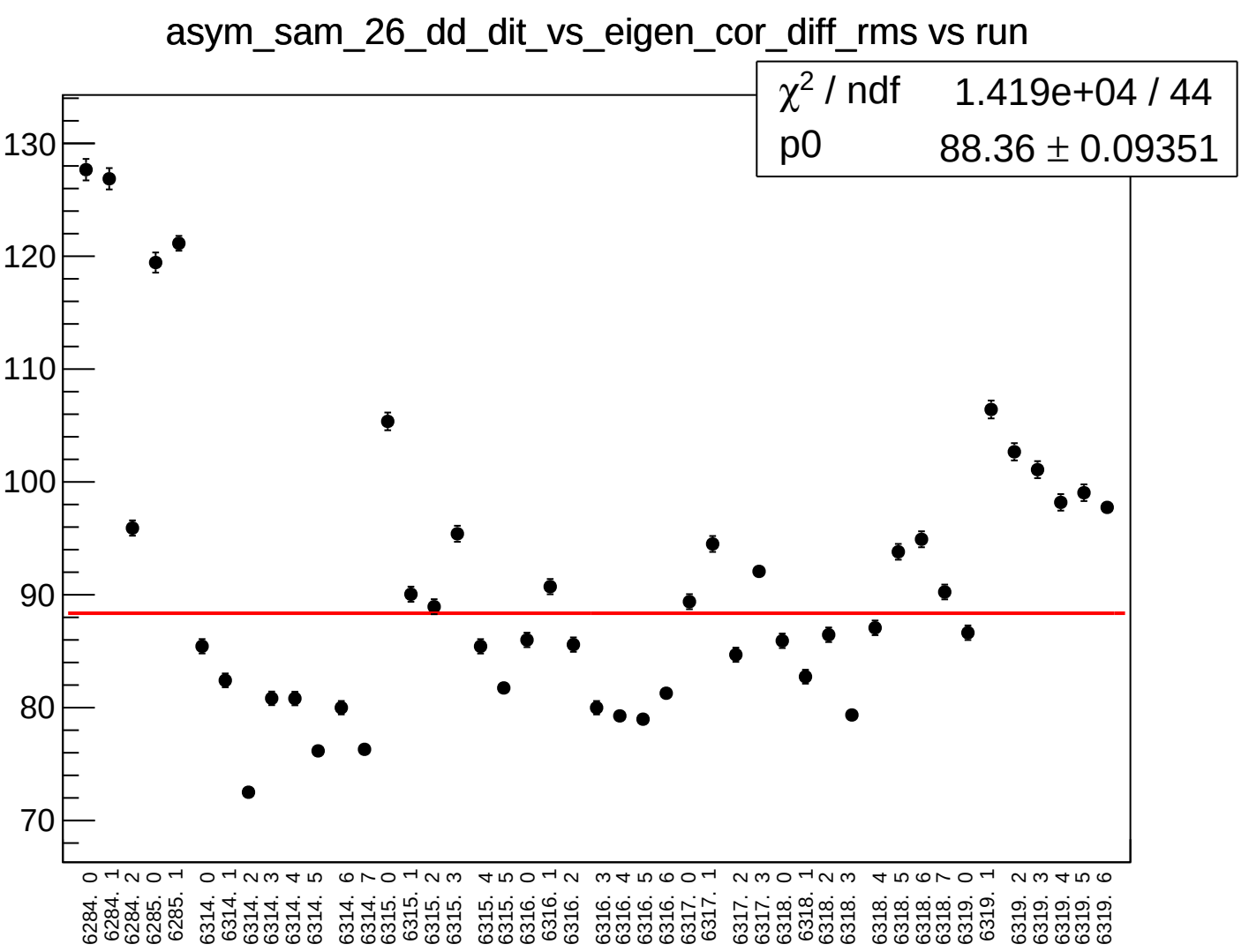

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.79 / 44
p0 0.03867 ± 0.1322
pull
Entries 45
Mean 269.8
Std Dev 0

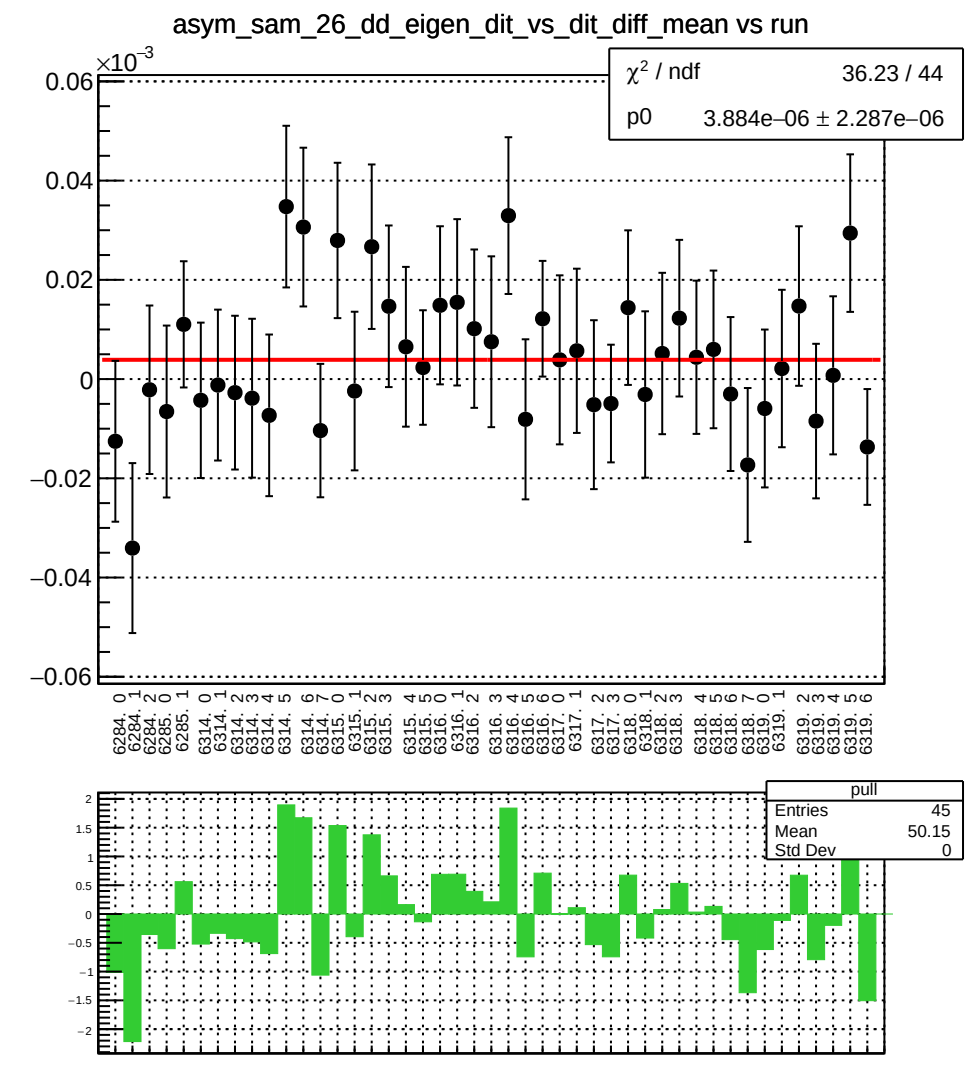

pull1D
Entries 45
Mean 0.00825
Std Dev 1.031

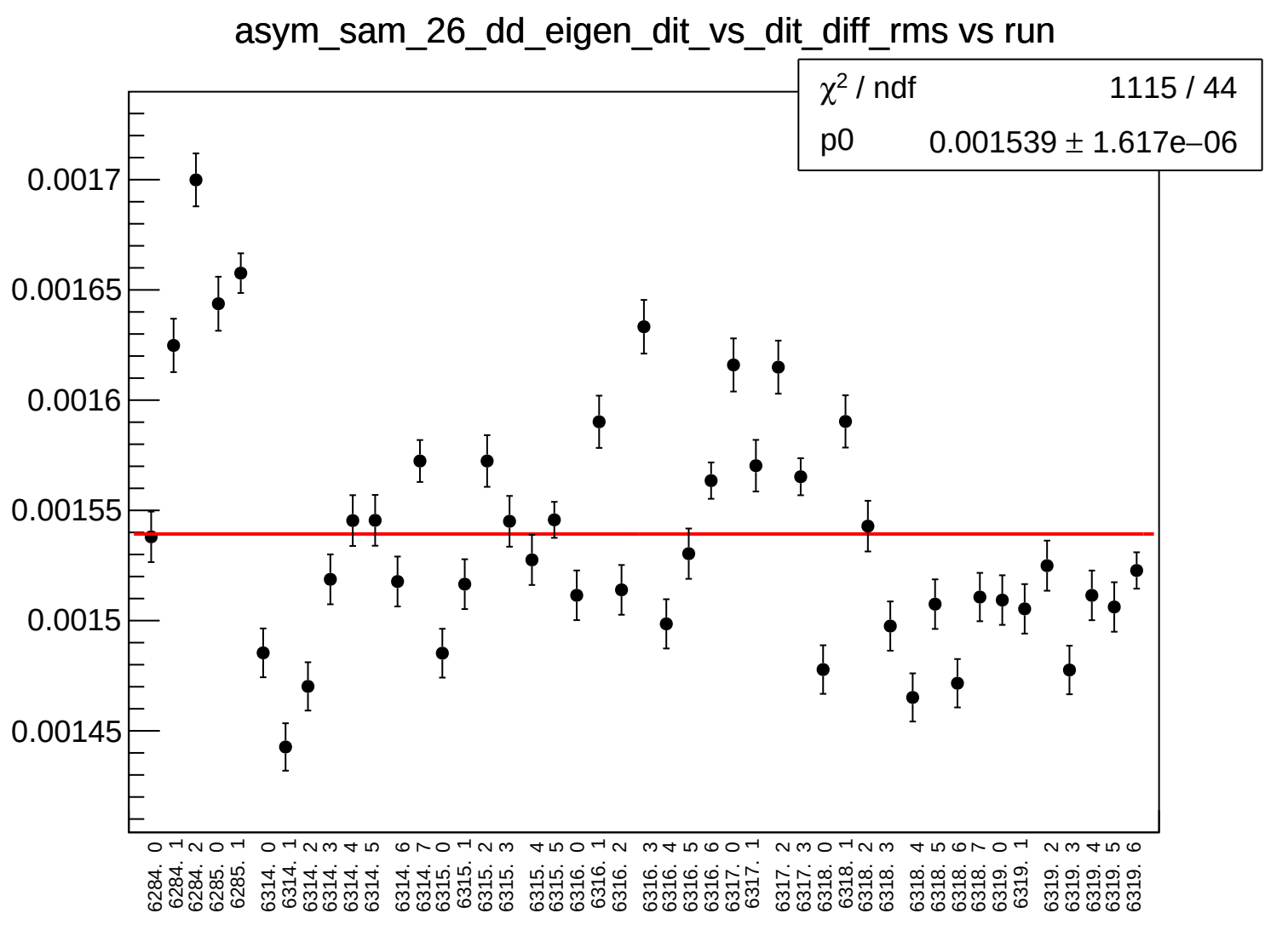

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.419e+04 / 44
p0 88.36 ± 0.09351
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

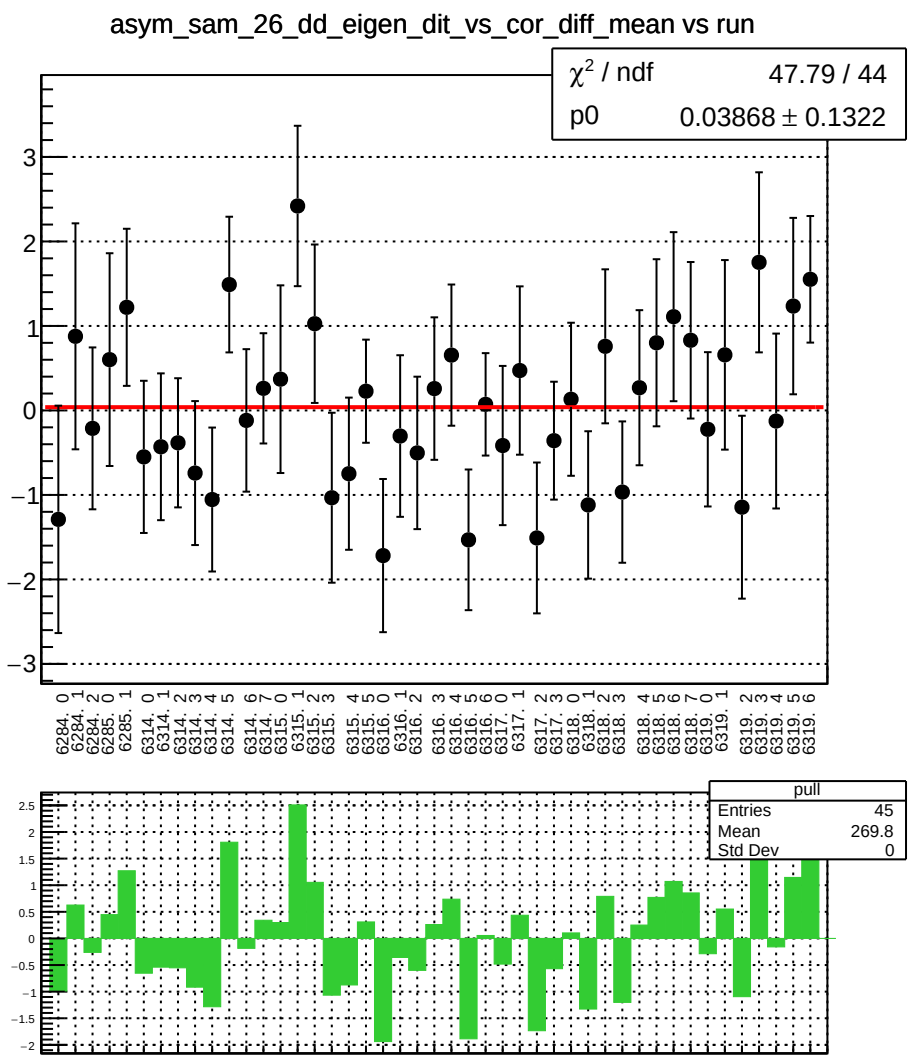

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.79 / 44
p0 0.03867 ± 0.1322
pull
Entries 45
Mean 269.8
Std Dev 0

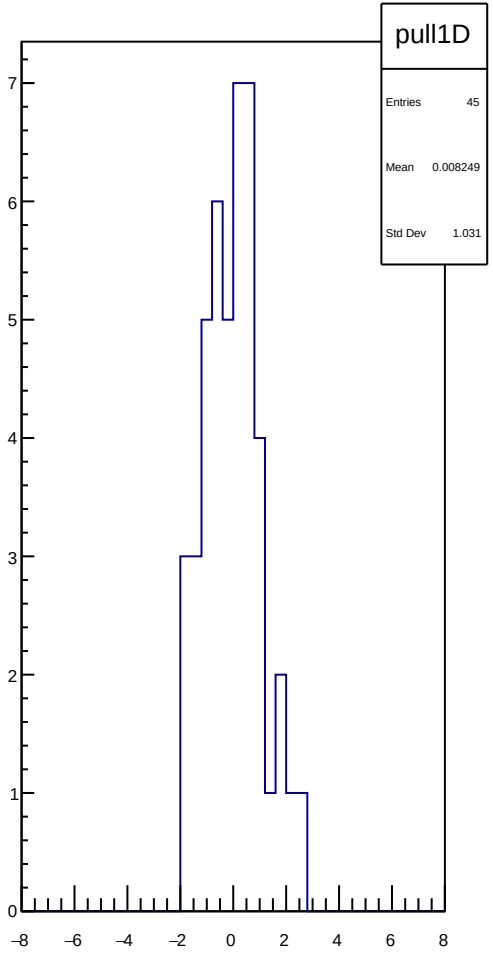

pull1D
Entries 45
Mean 0.00825
Std Dev 1.031

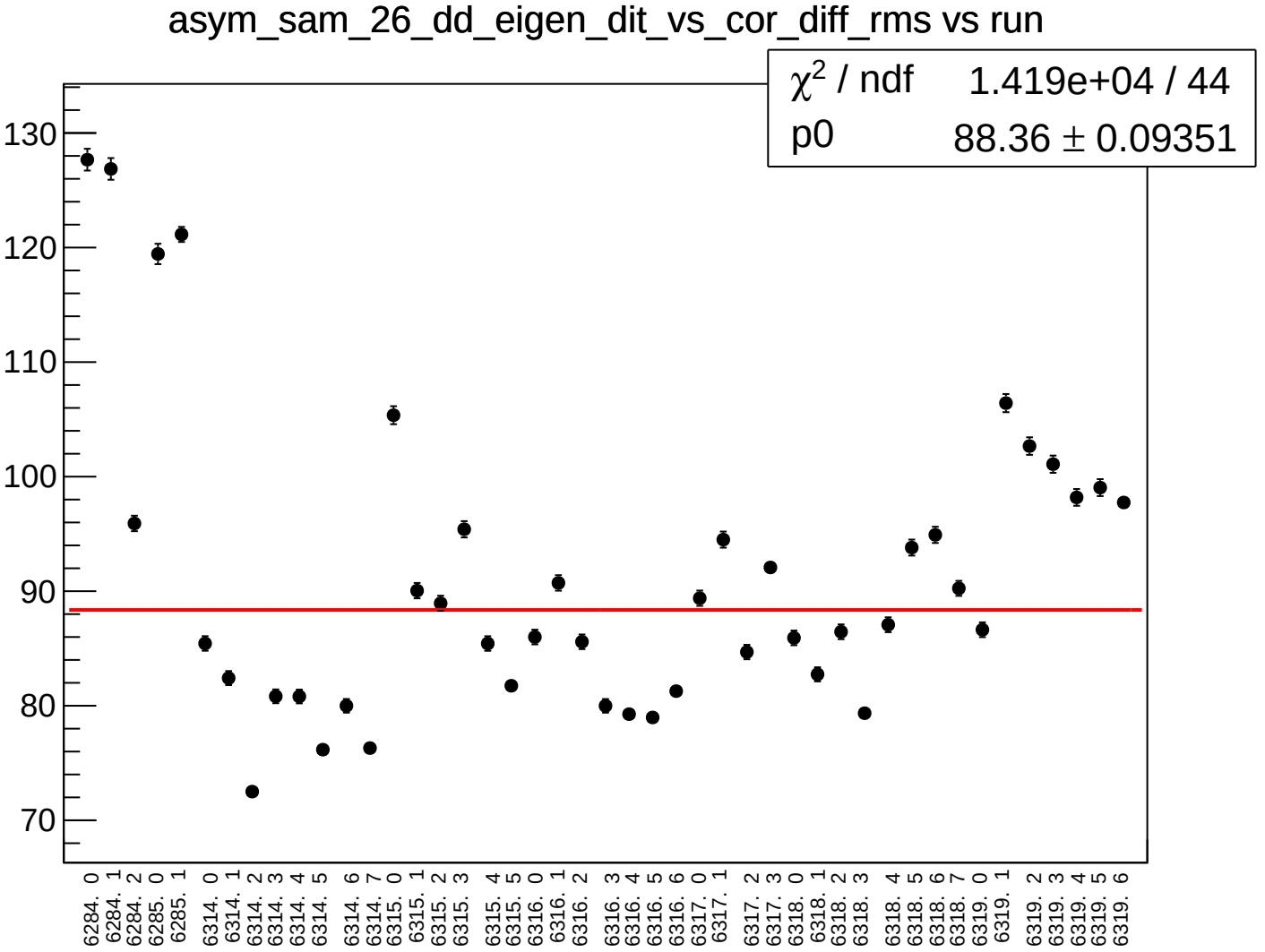

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.419e+04 / 44
p0 88.36 ± 0.09351
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

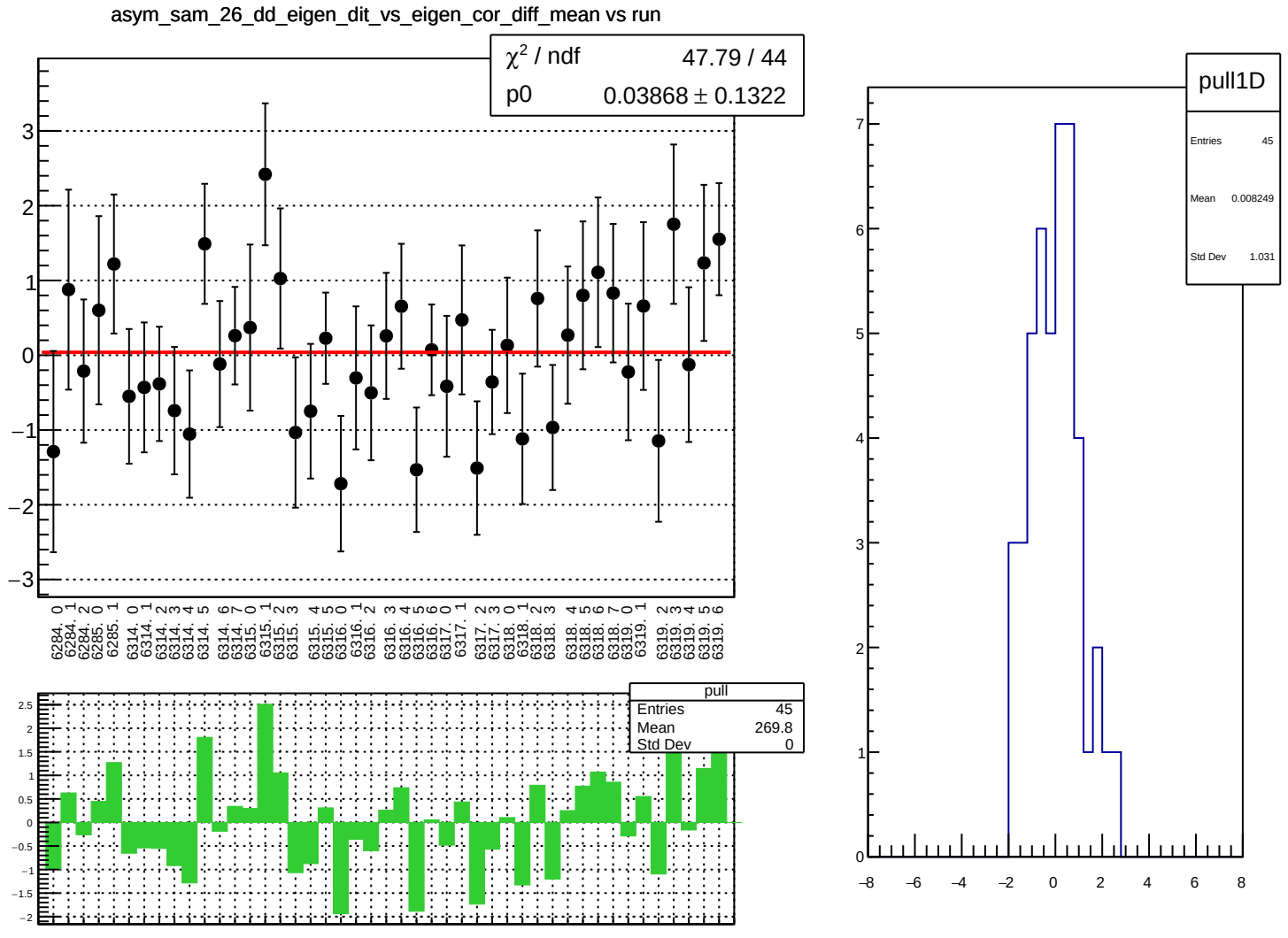

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.23 / 44
p0 3.884e−06 ± 2.287e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 50.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01205
Std Dev 0.8972
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

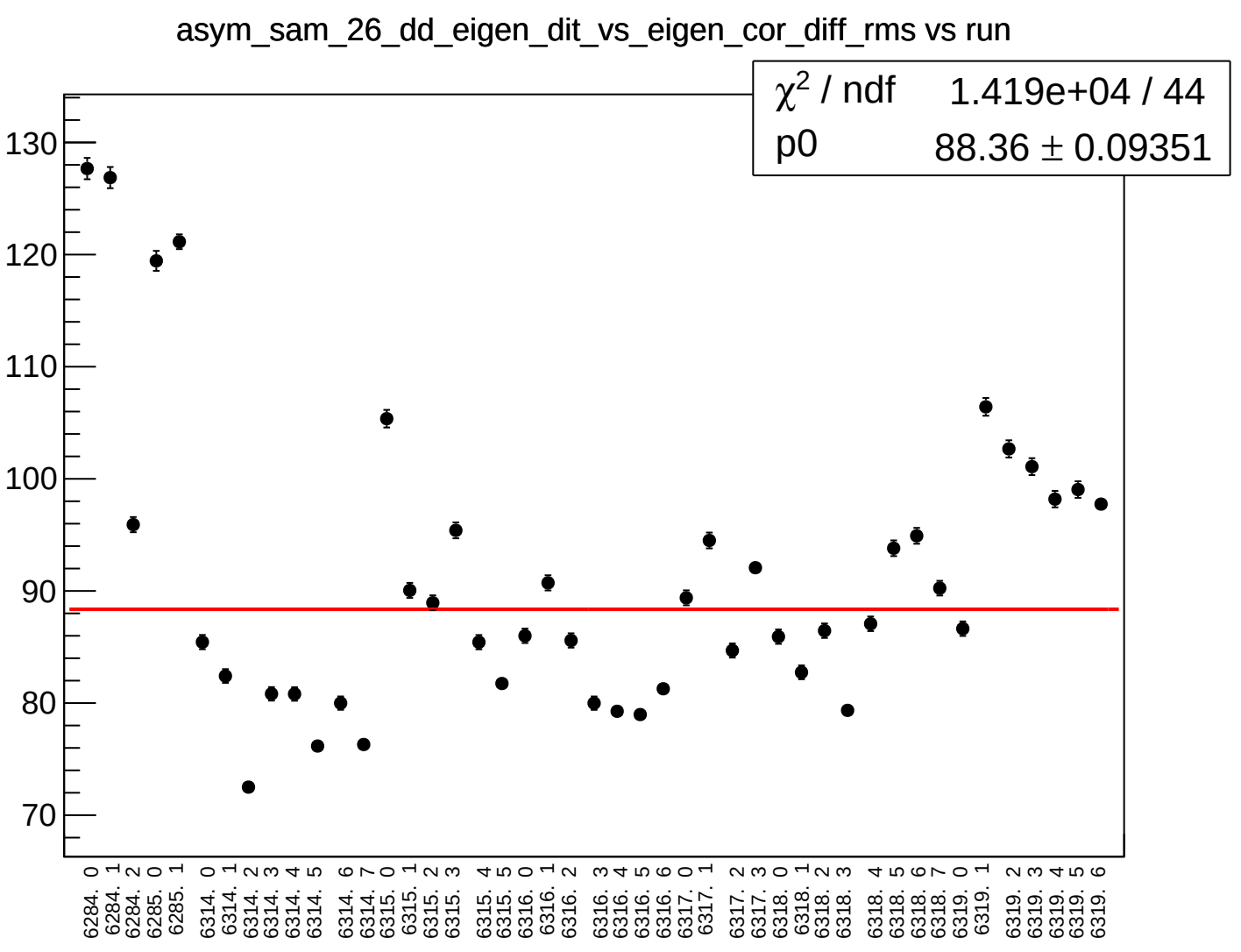

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1115 / 44
p0 0.001539 ± 1.617e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

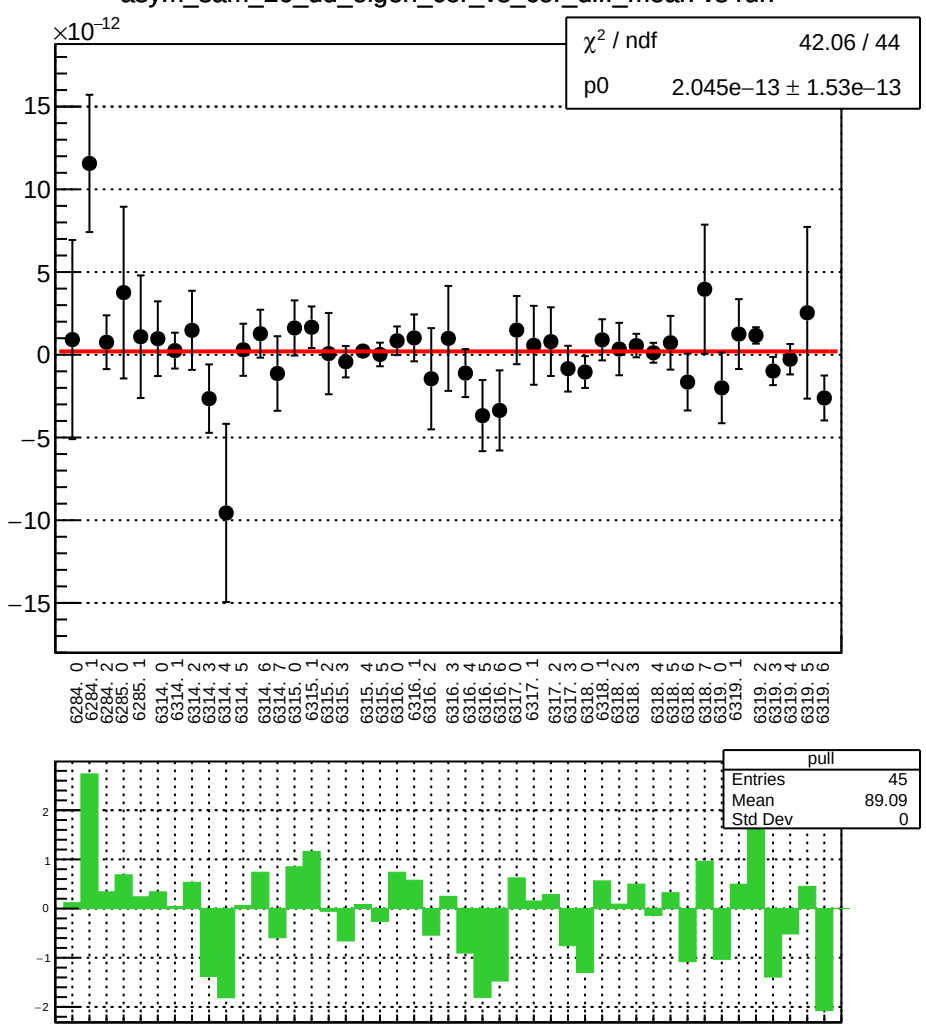

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.79 / 44
p0 0.03868 ± 0.1322
pull
Entries 45
Mean 269.8
Std Dev 0

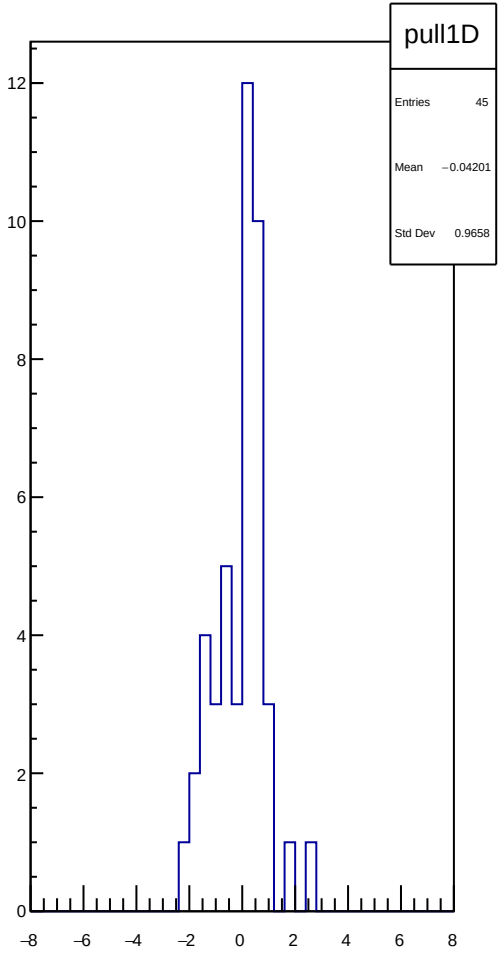

pull1D
Entries 45
Mean 0.008249
Std Dev 1.031

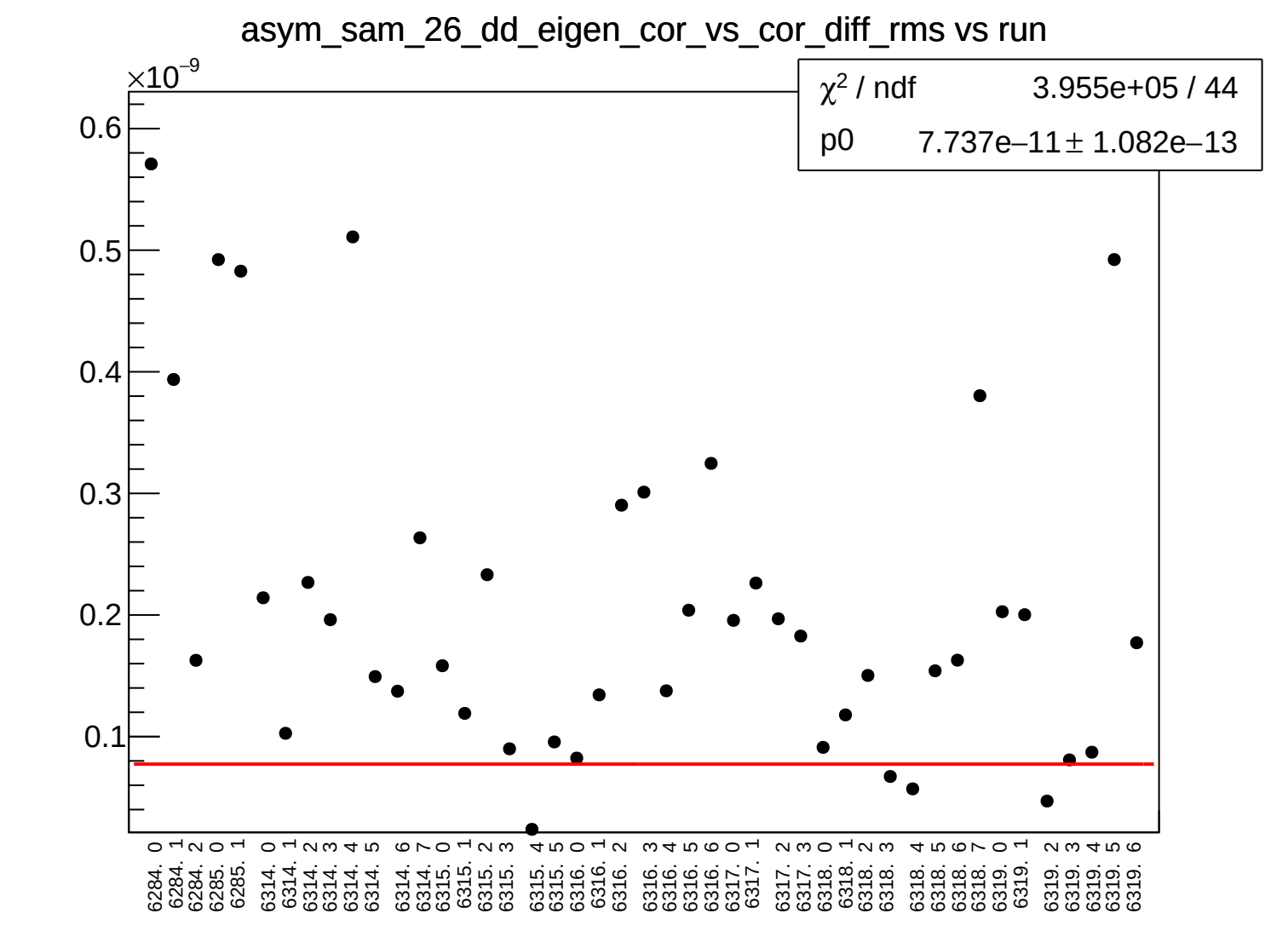

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.419e+04 / 44
p0 88.36 ± 0.09351
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

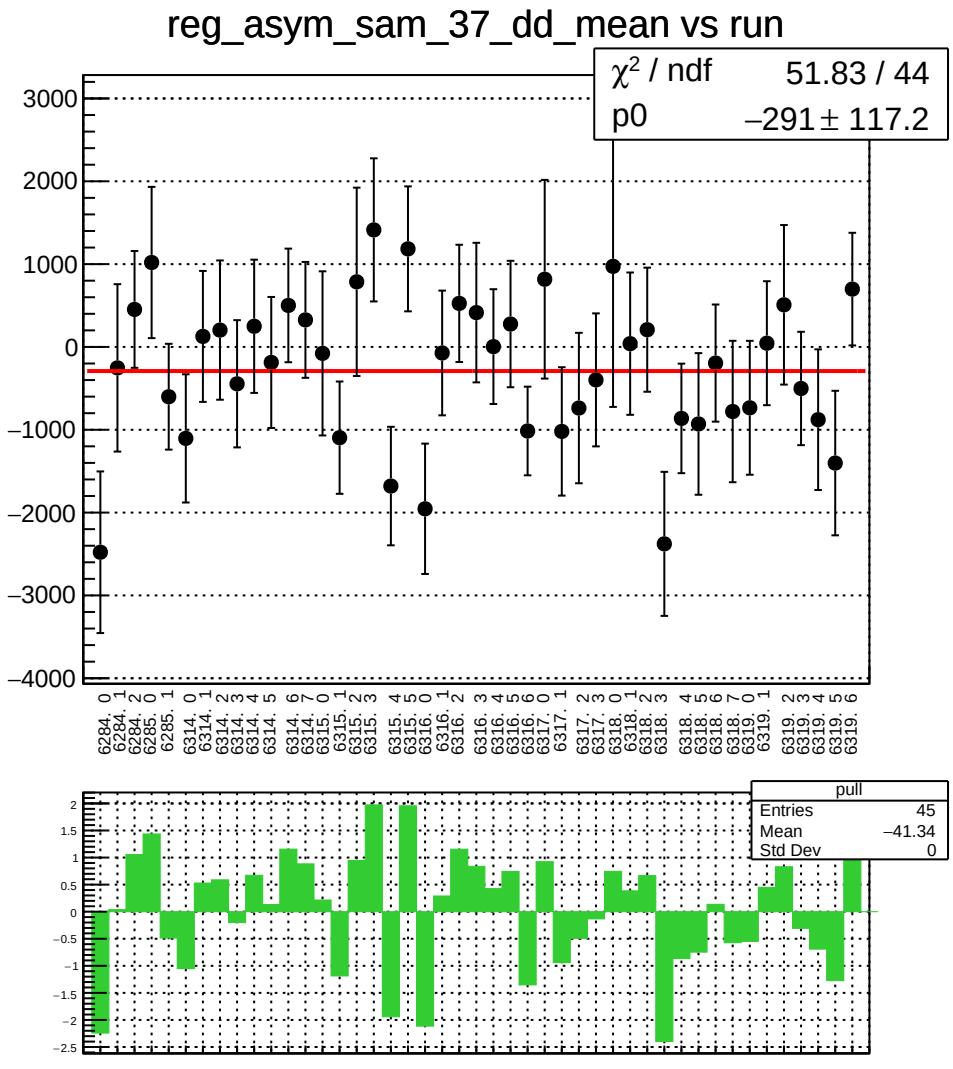

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.79 / 44
p0 0.03868 ± 0.1322
pull
Entries 45
Mean 269.8
Std Dev 0
pull1D
Entries 45
Mean 0.008249
Std Dev 1.031

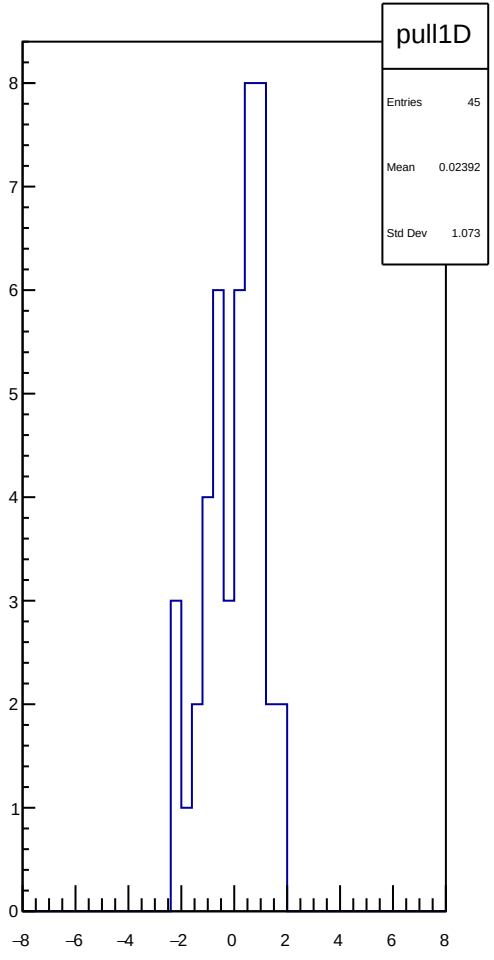

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.419e+04 / 44
p0 88.36 ± 0.09351
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

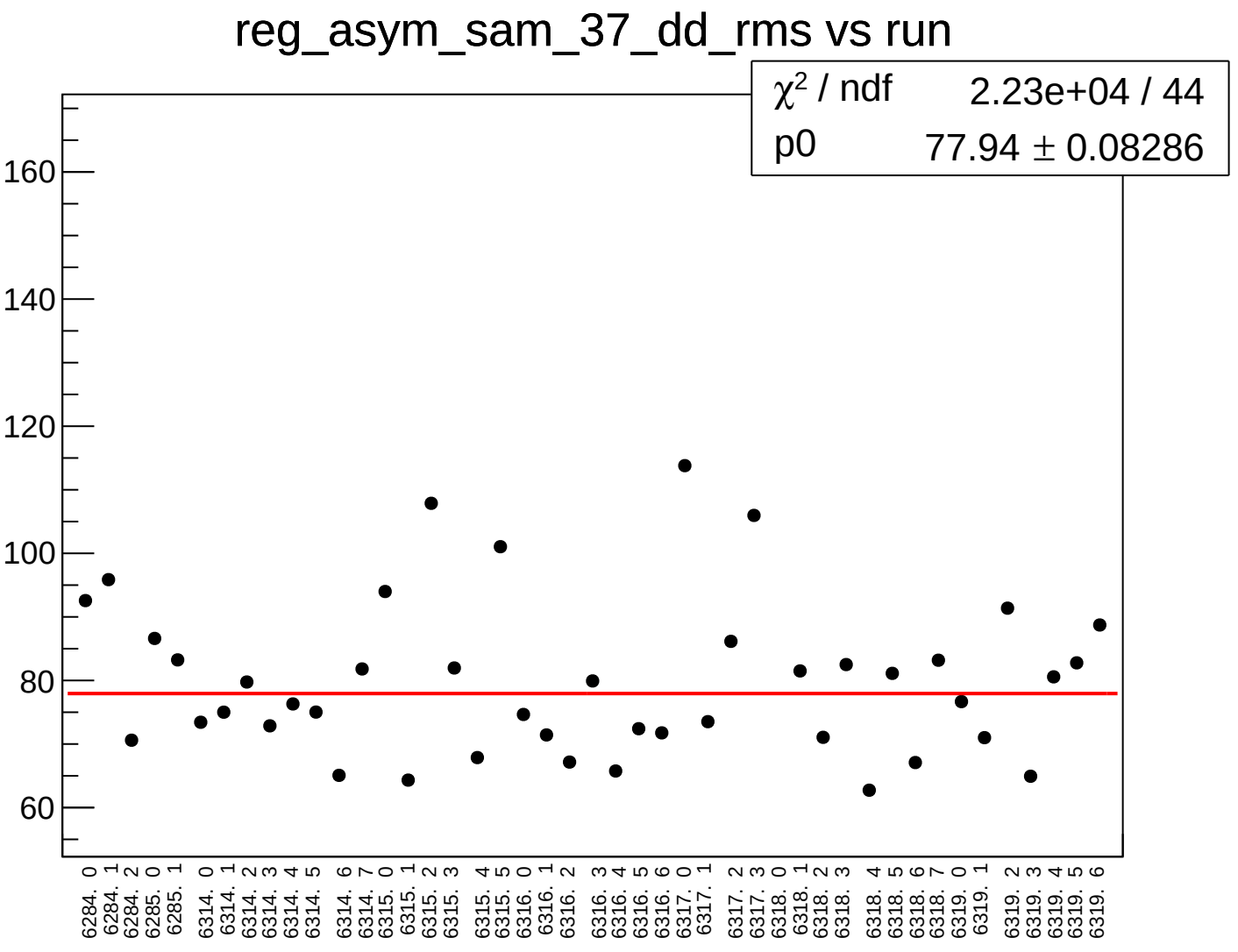

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.06 / 44
p0 2.045e−13 ± 1.53e−13
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 89.09
Std Dev 0
2
1
0
−1
−2

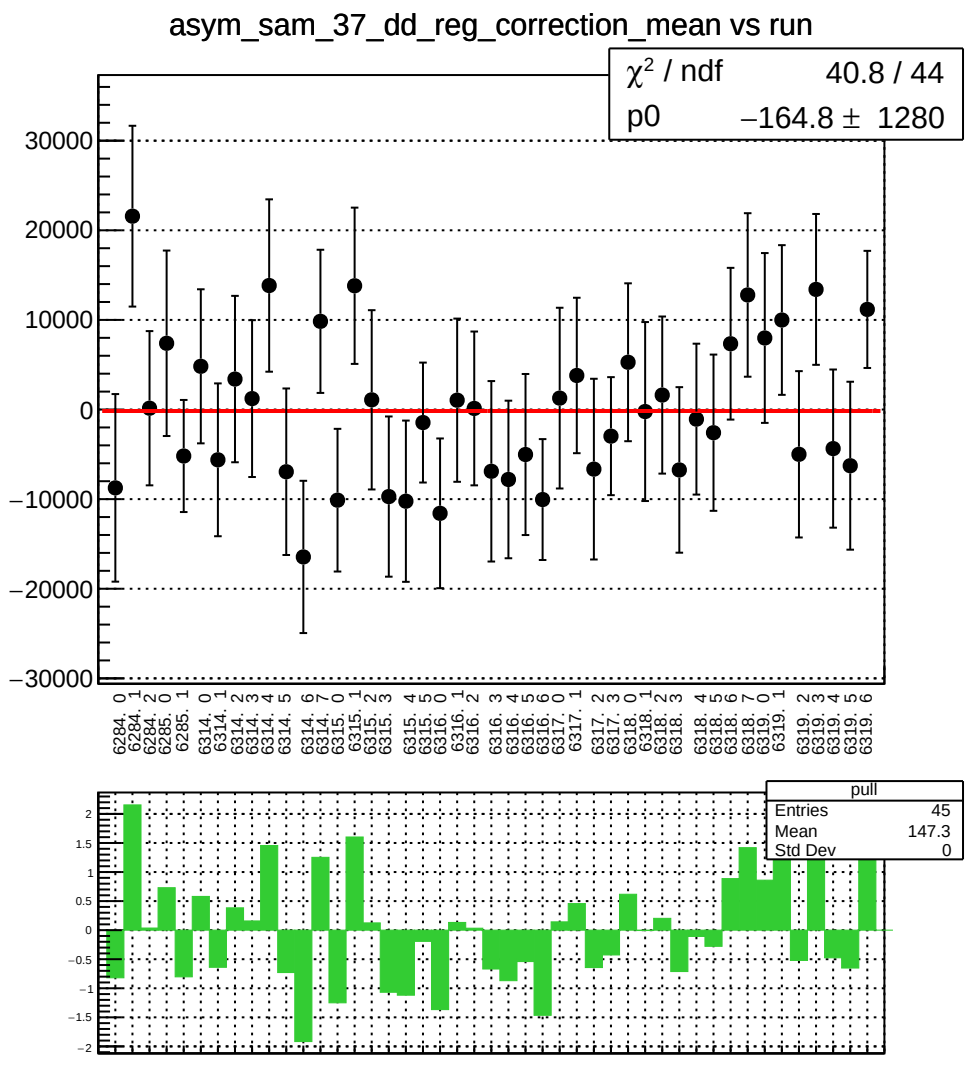

pull1D
Entries 45
Mean −0.04201
Std Dev 0.9658
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

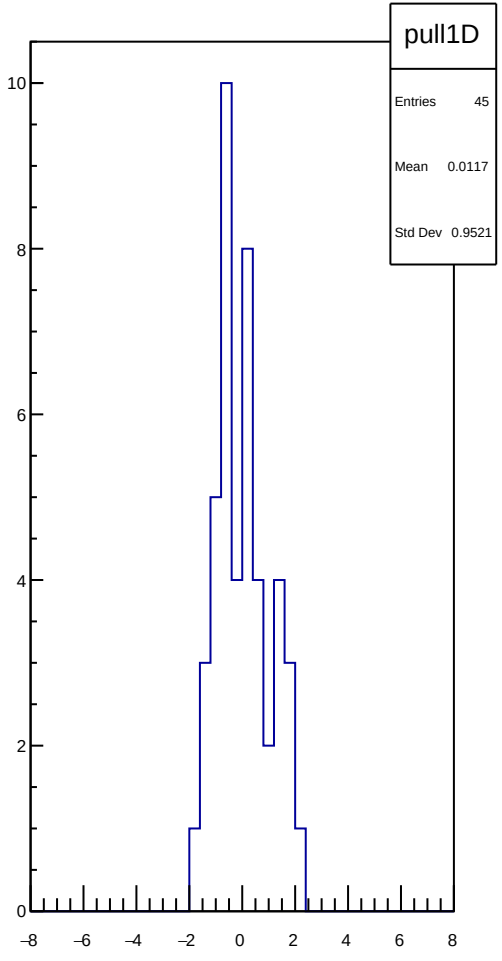

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.955e+05 / 44
p0 7.737e−11 ± 1.082e−13
0.6
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

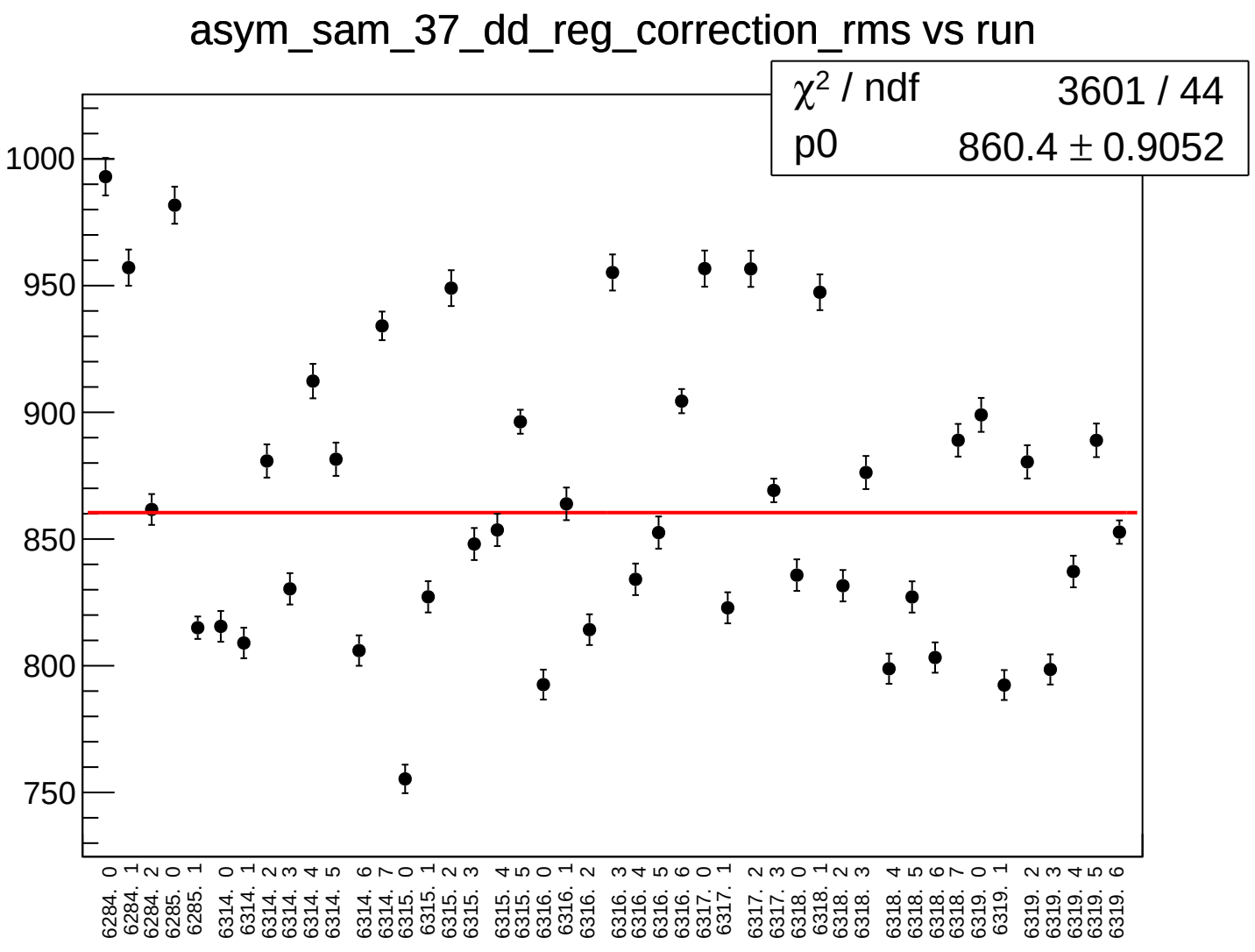

reg_asym_sam_37_dd_mean vs run
χ² / ndf 51.83 / 44
p0 −291 ± 117.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −41.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02392
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.23e+04 / 44
p0 77.94 ± 0.08286
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 40.8 / 44
p0 −164.8 ± 1280
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0117
Std Dev 0.9521
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3601 / 44
p0 860.4 ± 0.9052
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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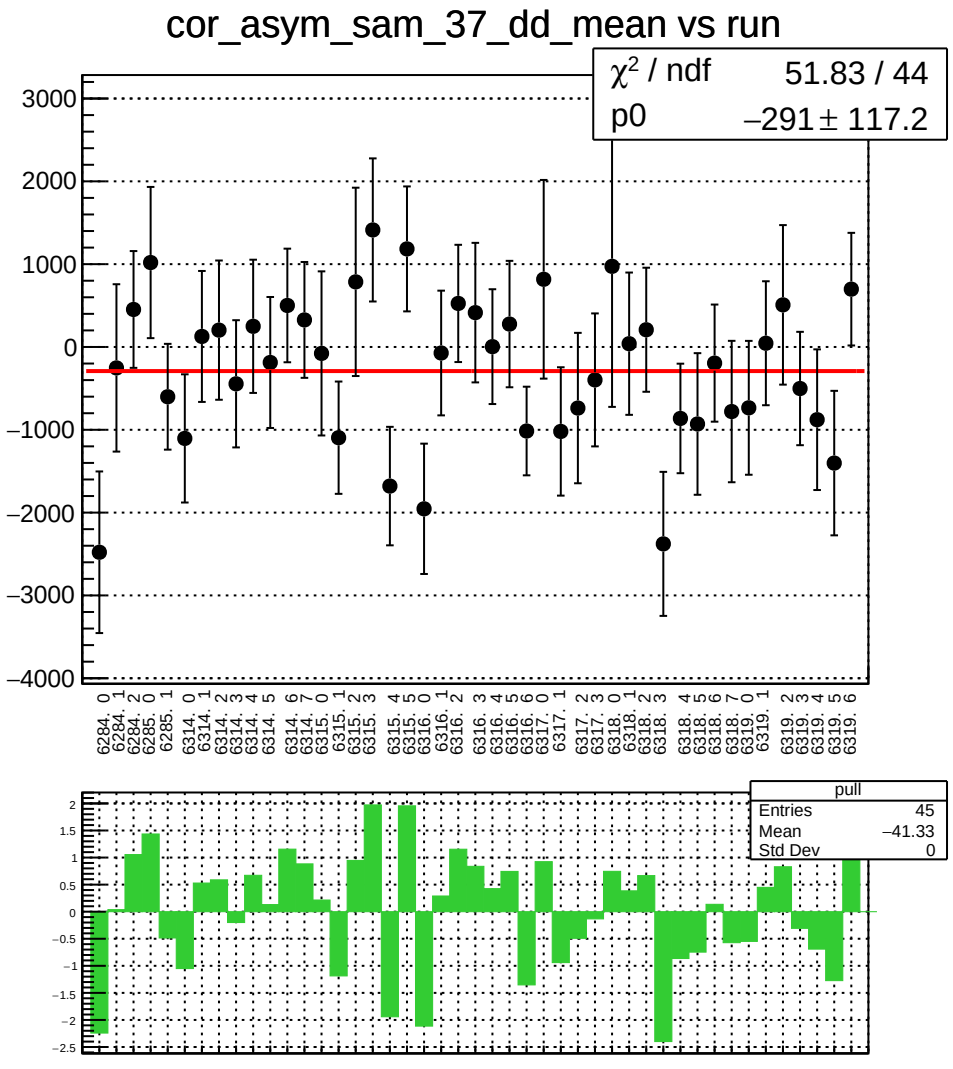
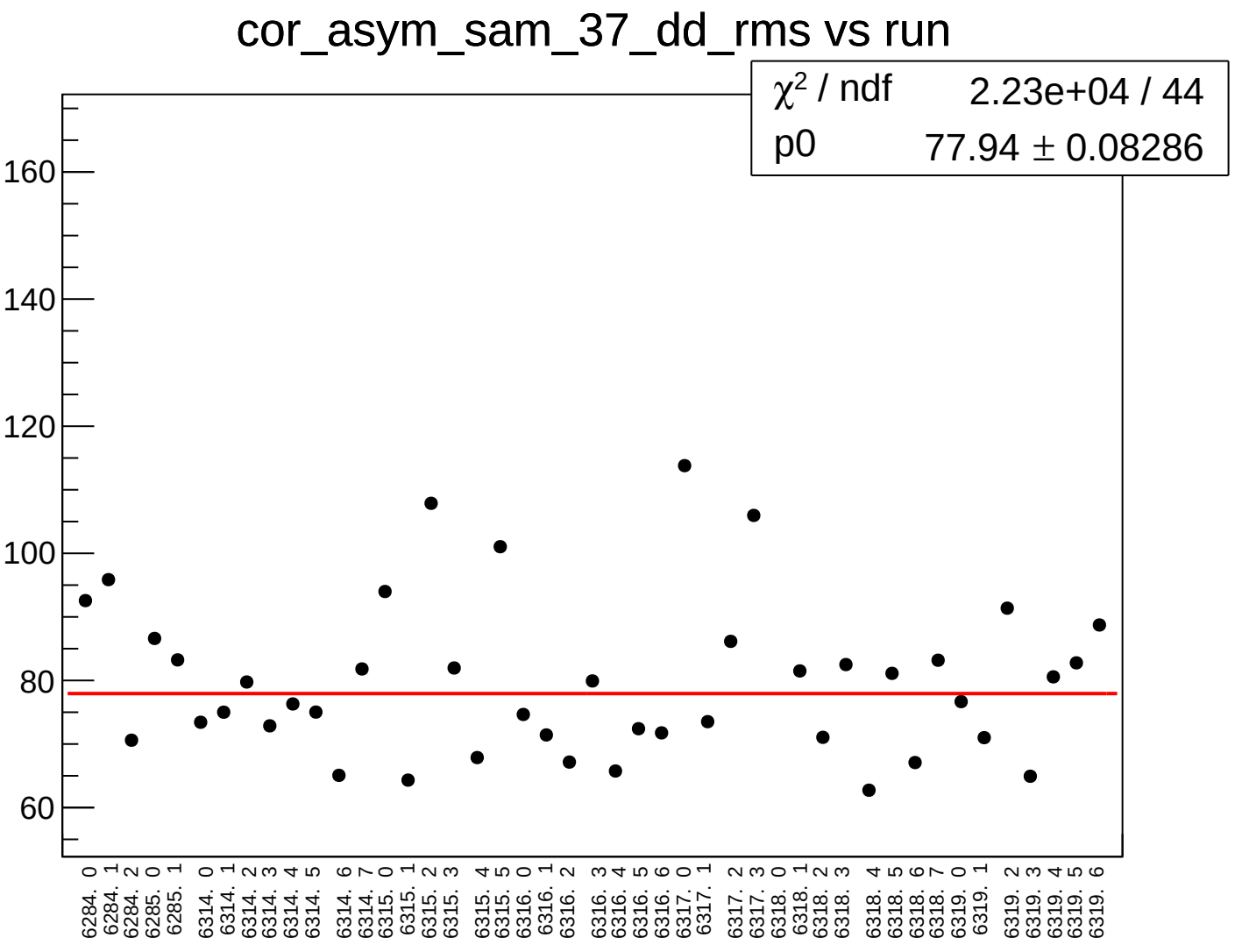
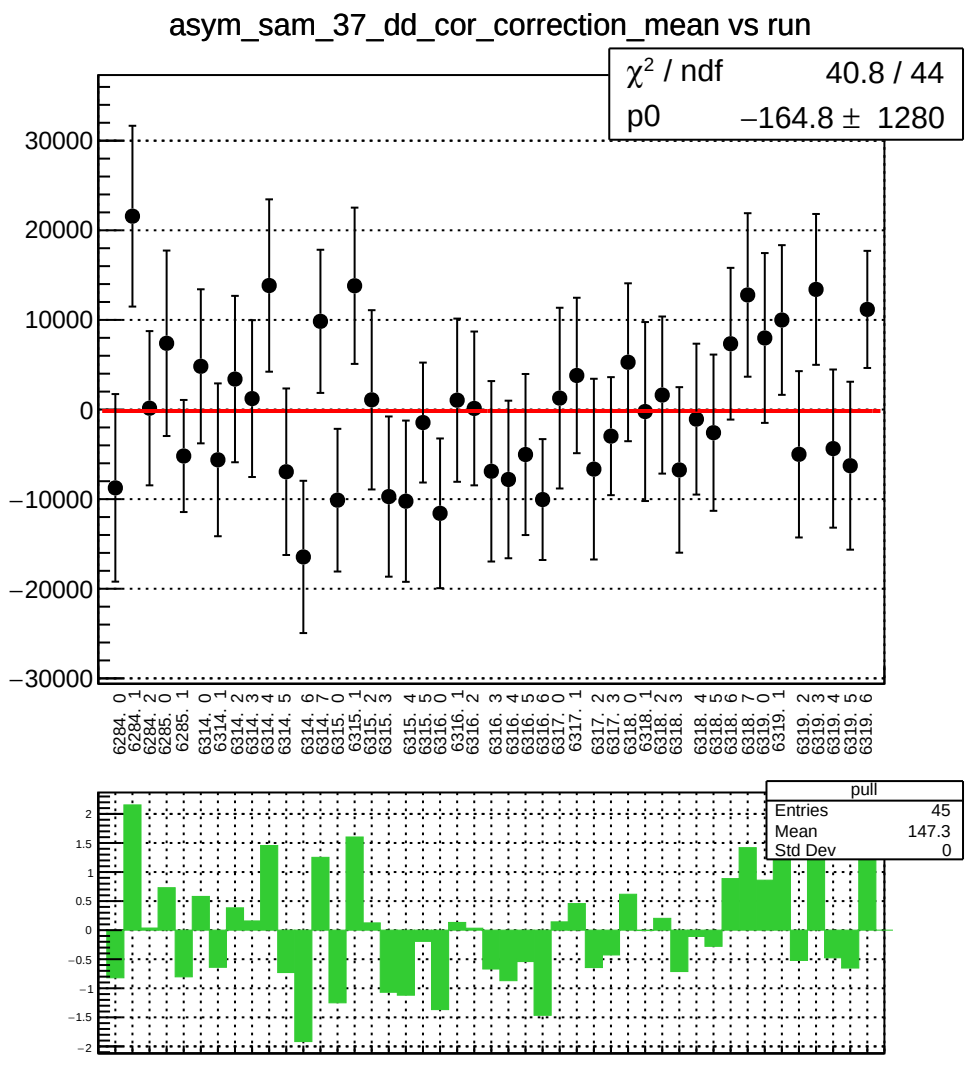
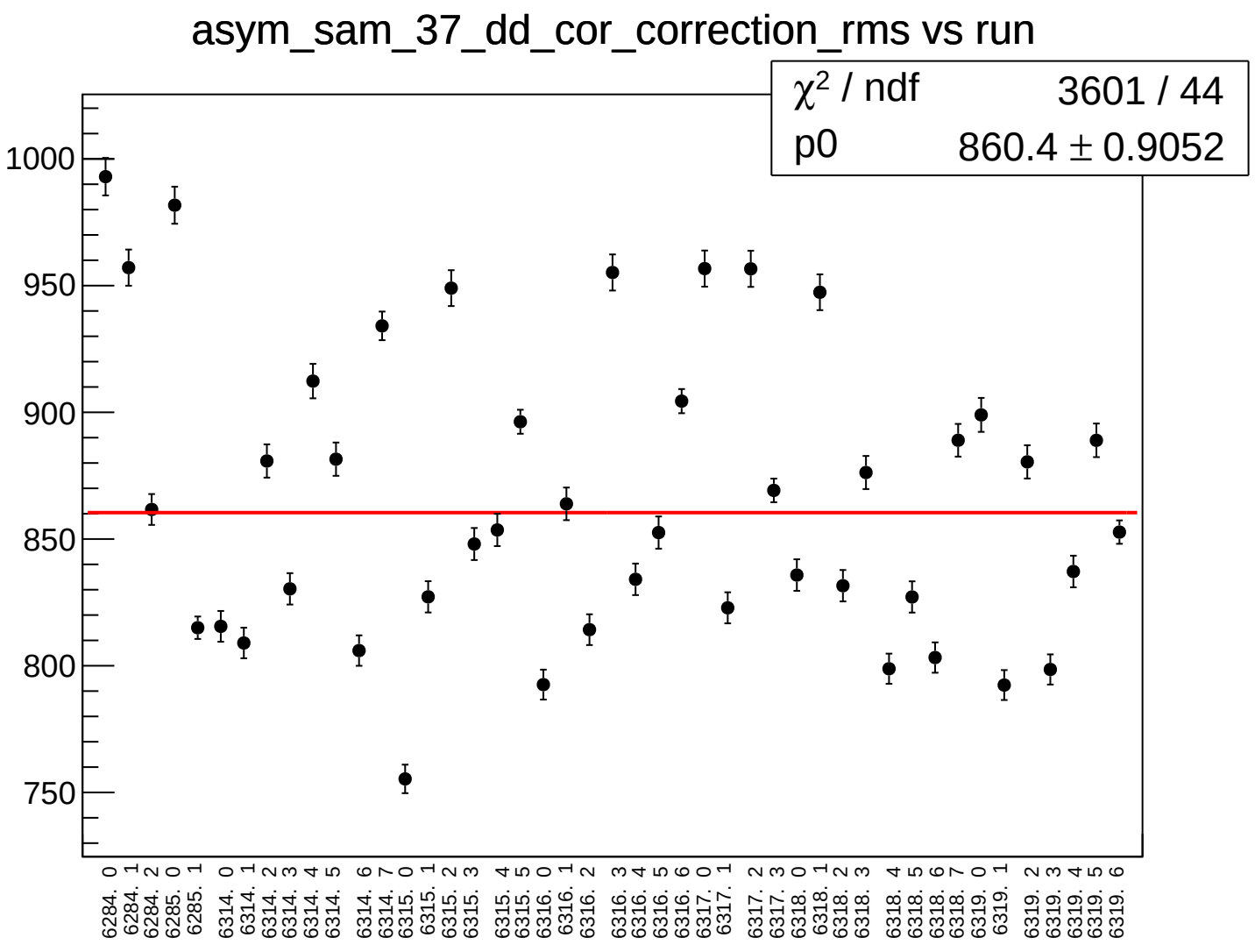
6319. 5
6319. 6


cor_asym_sam_37_dd_mean vs run
χ² / ndf 51.83 / 44
p0 −291 ± 117.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −41.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02392
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.23e+04 / 44
p0 77.94 ± 0.08286
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 40.8 / 44
p0 −164.8 ± 1280
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0117
Std Dev 0.9521
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3601 / 44
p0 860.4 ± 0.9052
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 2
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6315. 2
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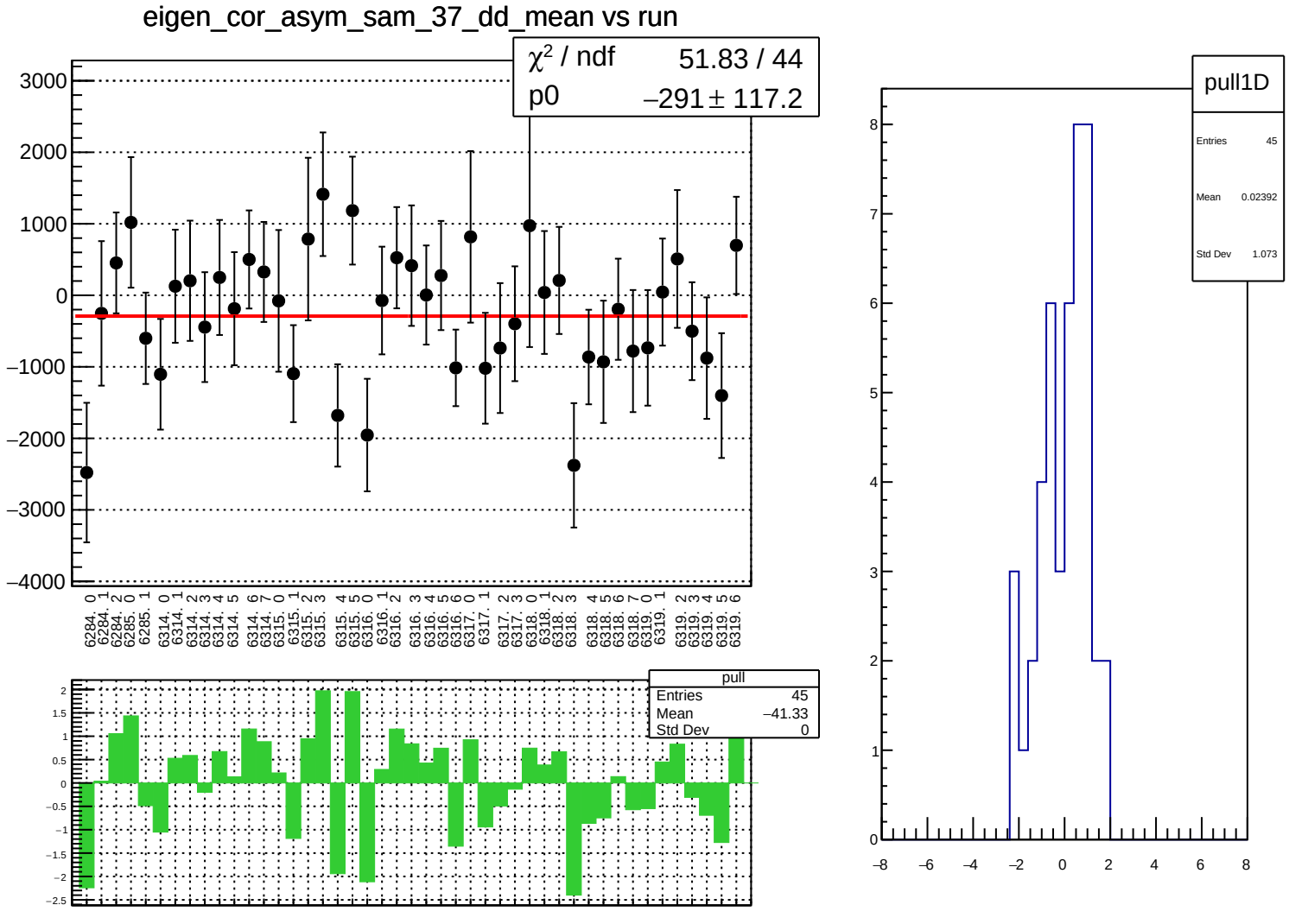
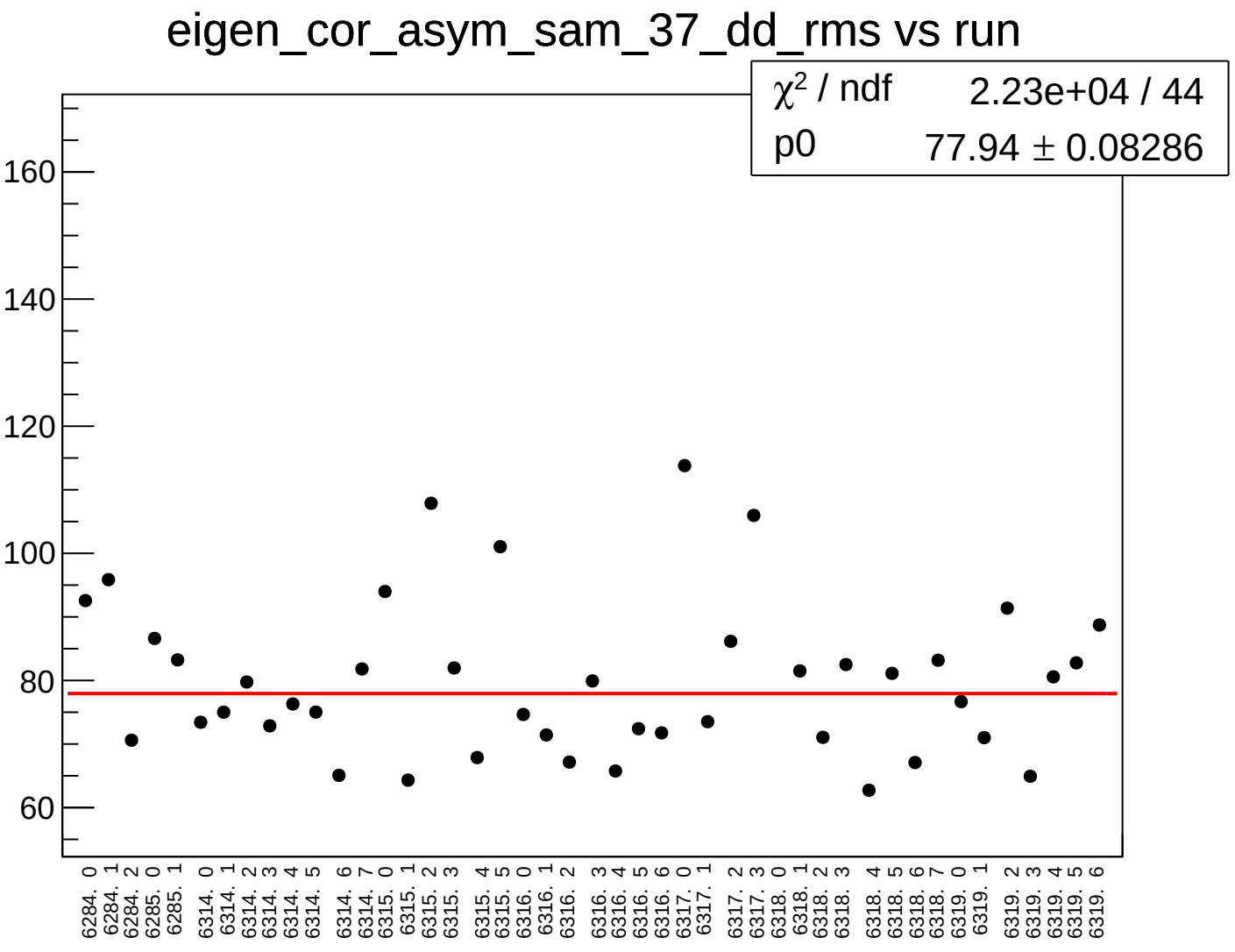

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 51.83 / 44
p0 −291 ± 117.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −41.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02392
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.23e+04 / 44
p0 77.94 ± 0.08286
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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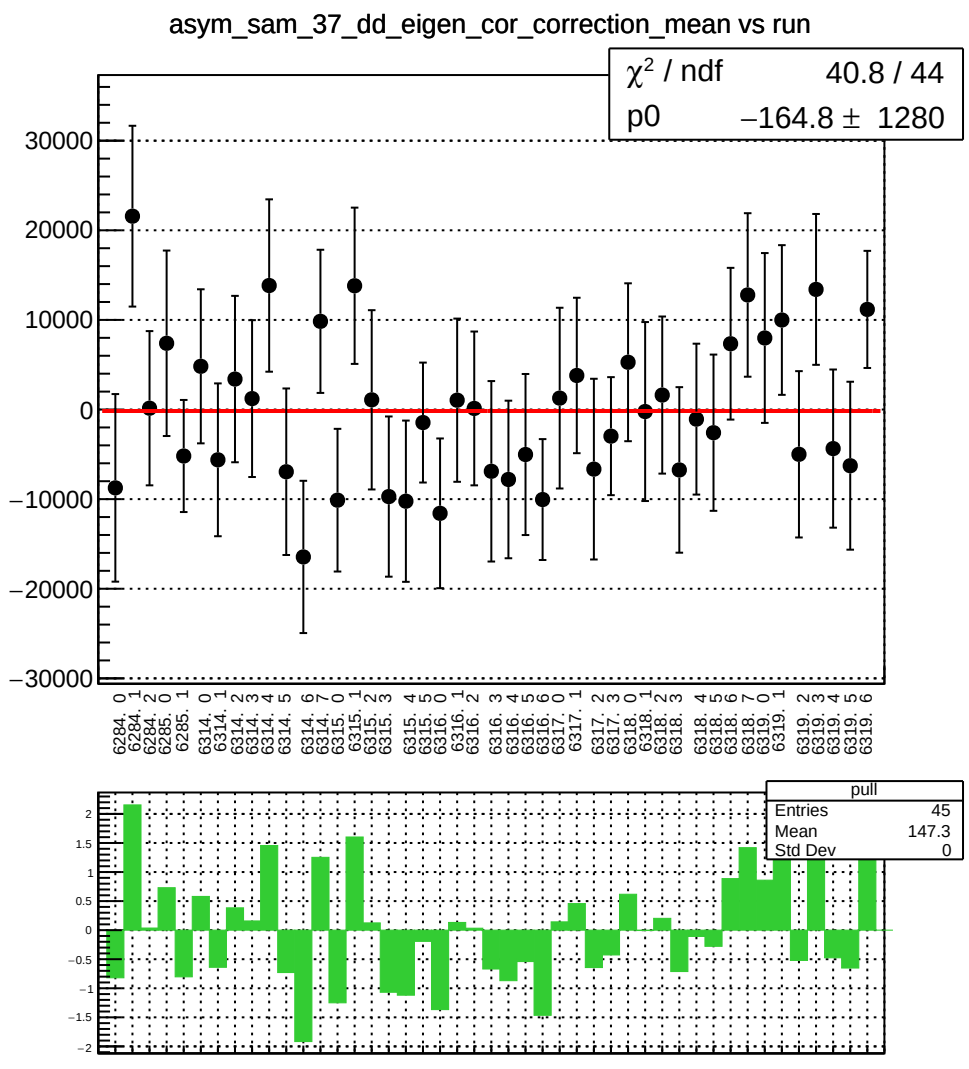
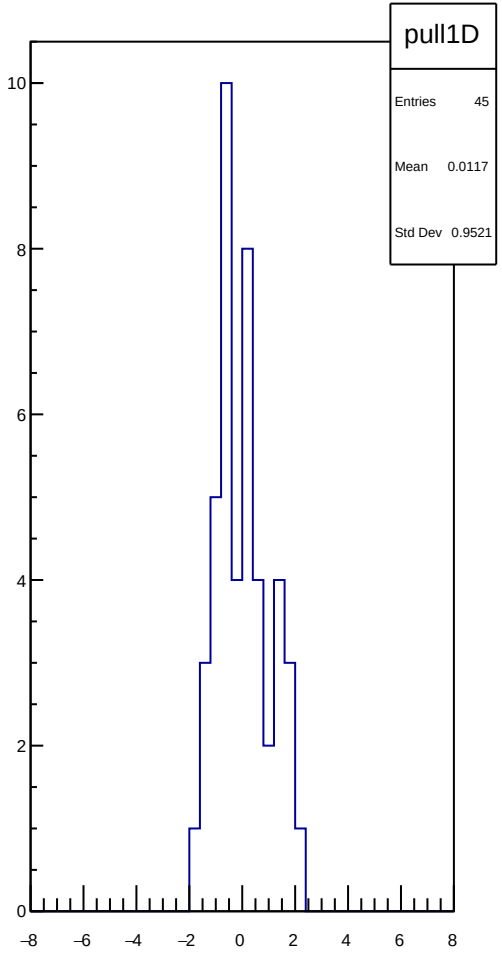
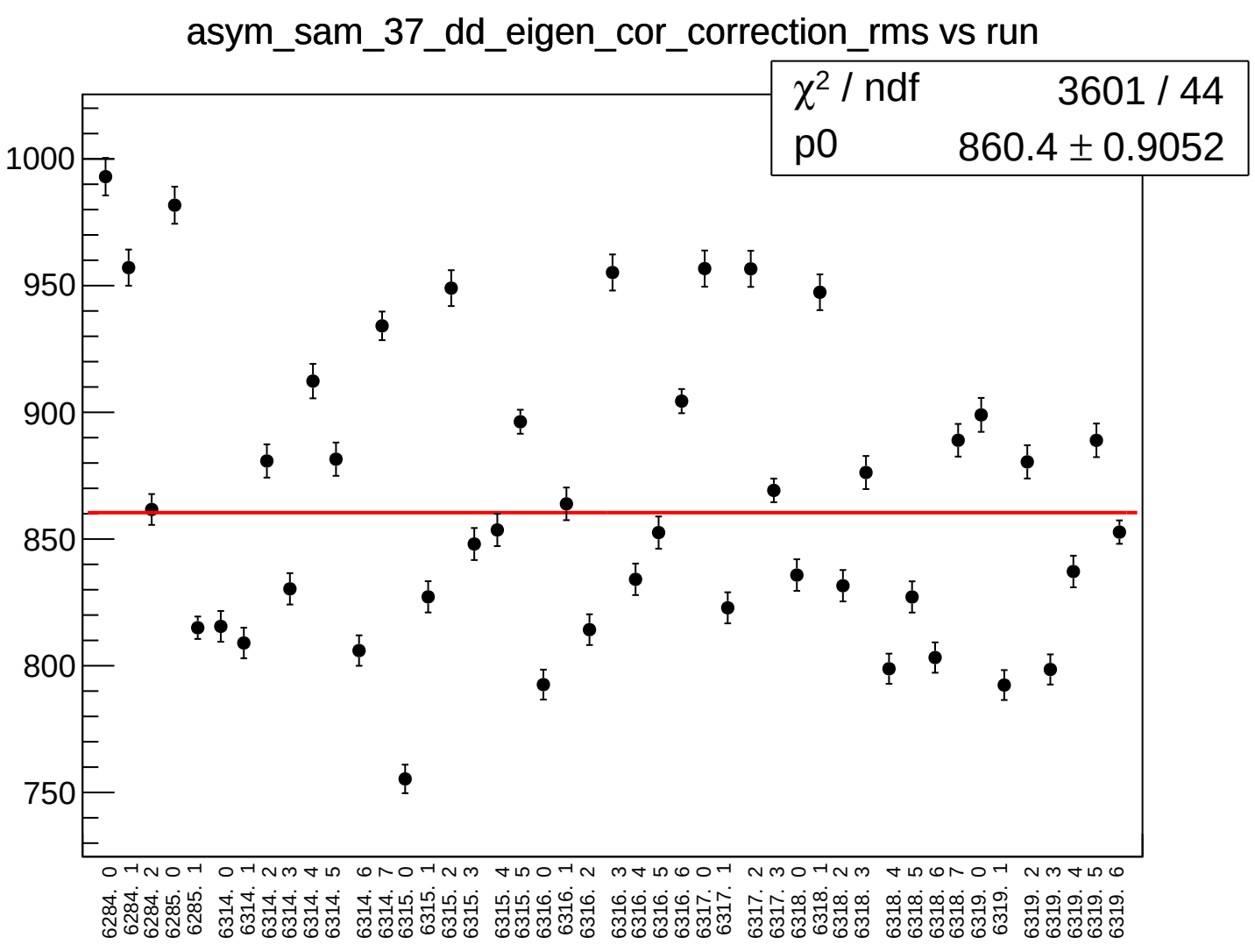
6319. 5
6319. 6


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.8 / 44
p0 −164.8 ± 1280
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 147.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0117
Std Dev 0.9521
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3601 / 44
p0 860.4 ± 0.9052
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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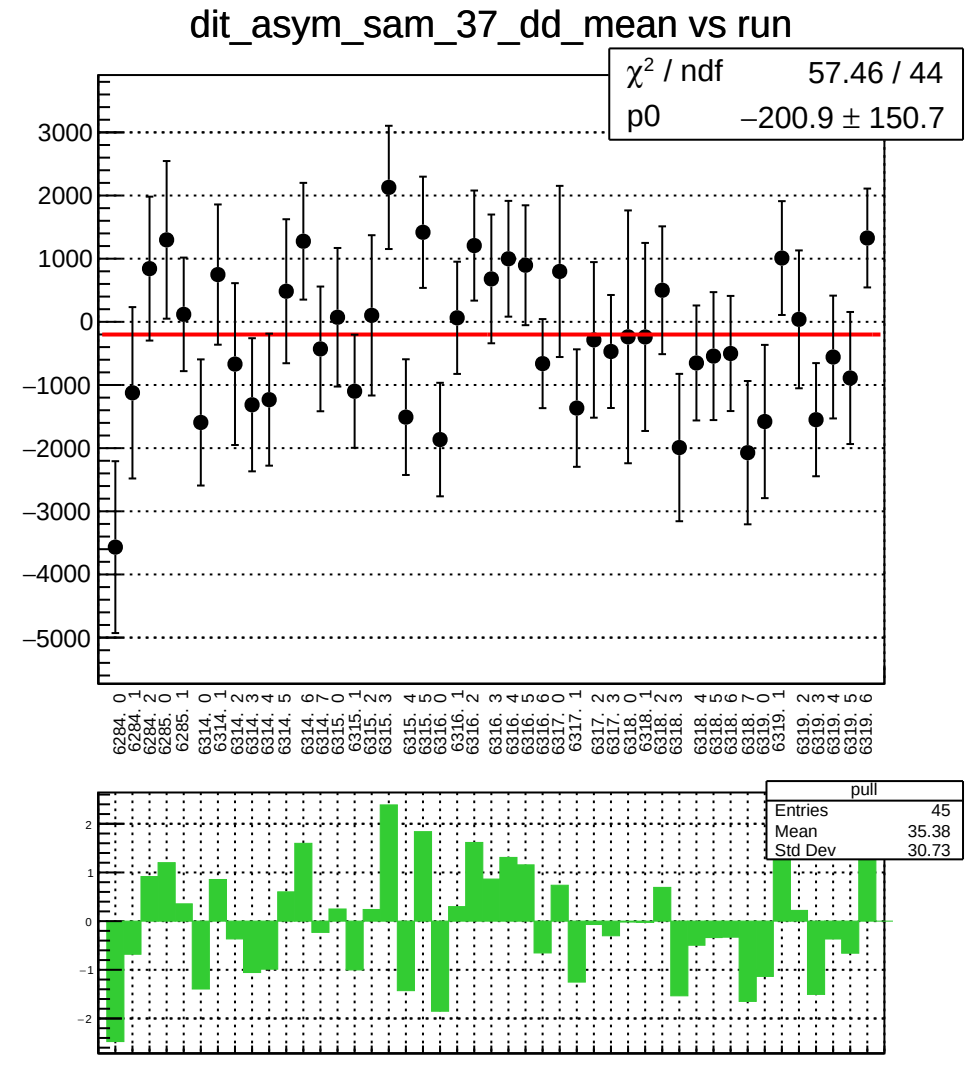
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_37_dd_mean vs run
χ² / ndf 57.46 / 44
p0 −200.9 ± 150.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
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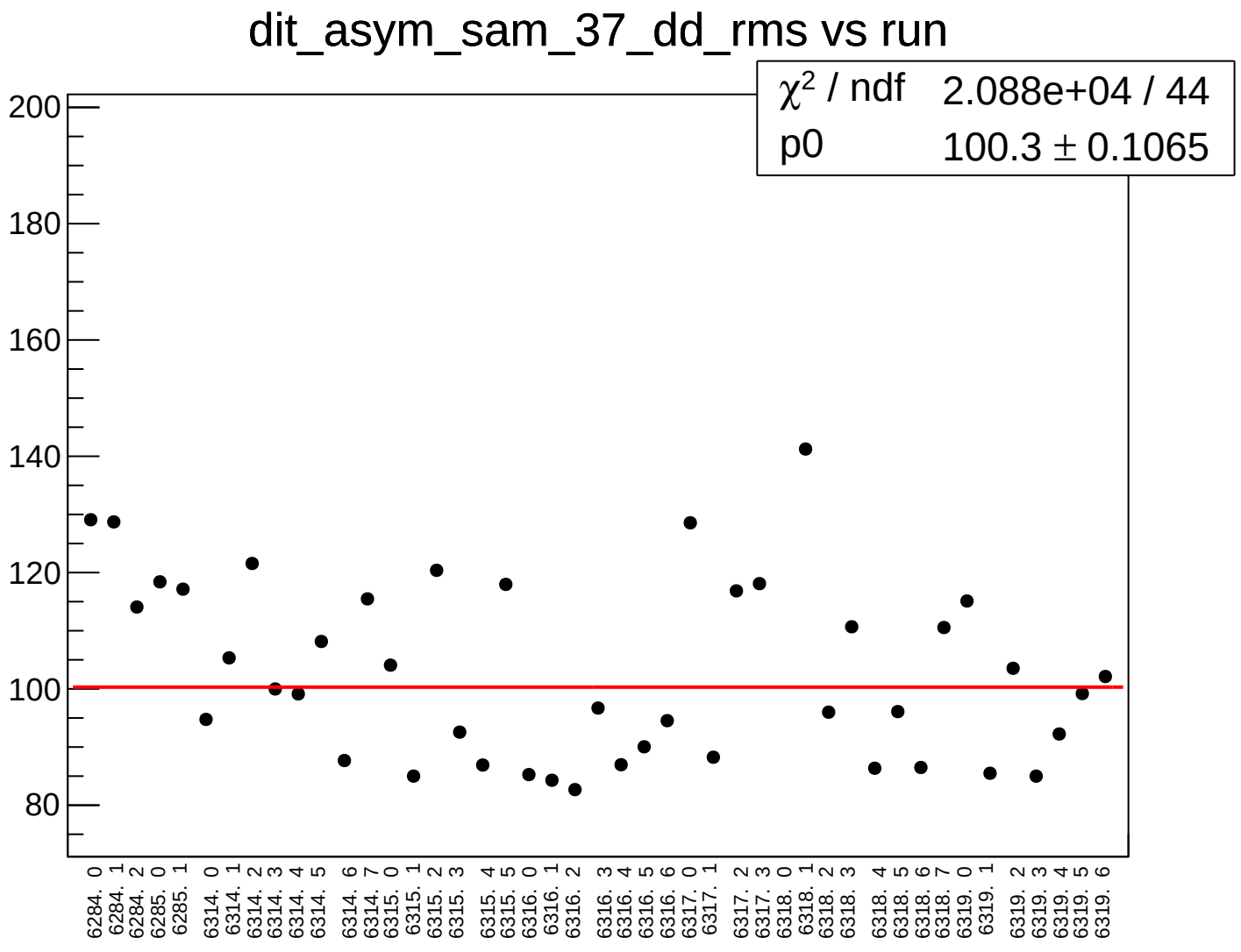
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 35.38
Std Dev 30.73
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03039
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.088e+04 / 44
p0 100.3 ± 0.1065
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6319. 0
6319. 1
6319. 2
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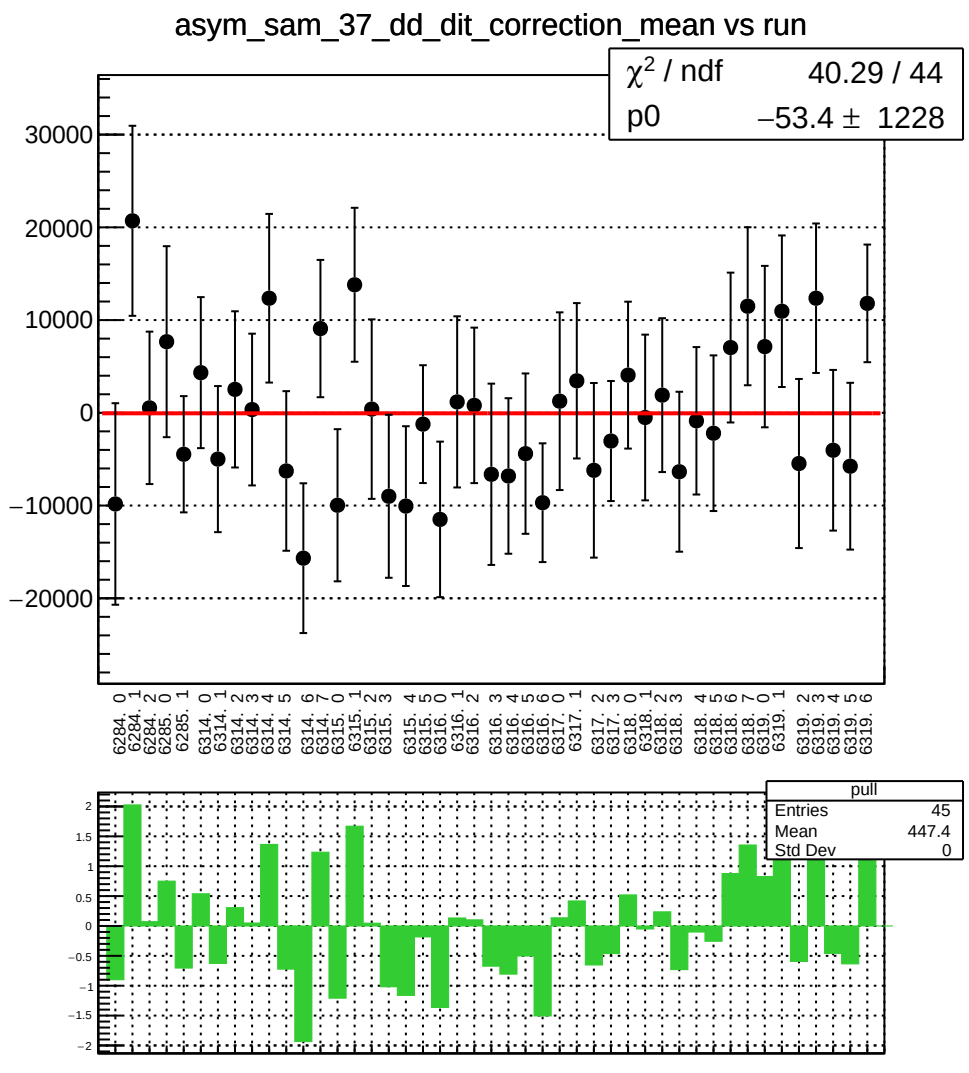
6319. 6


asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 40.29 / 44
p0 −53.4 ± 1228
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
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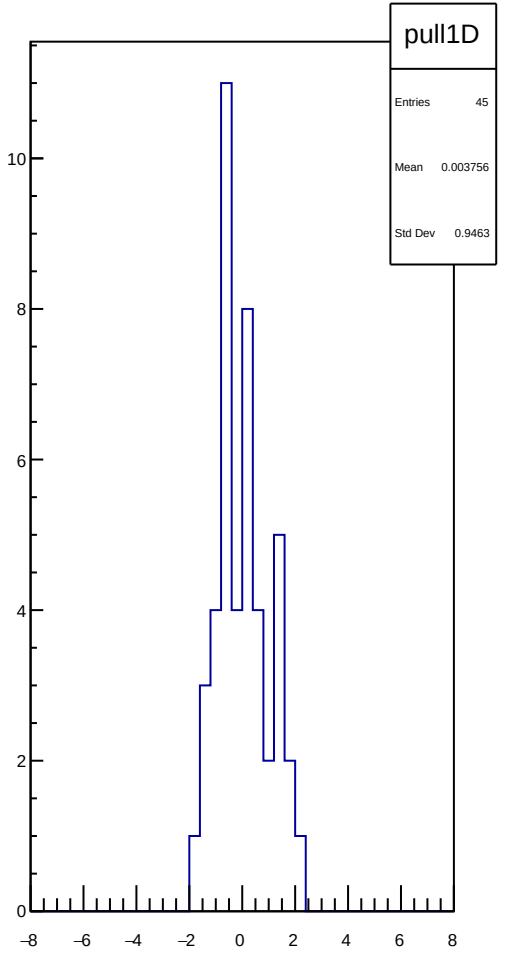
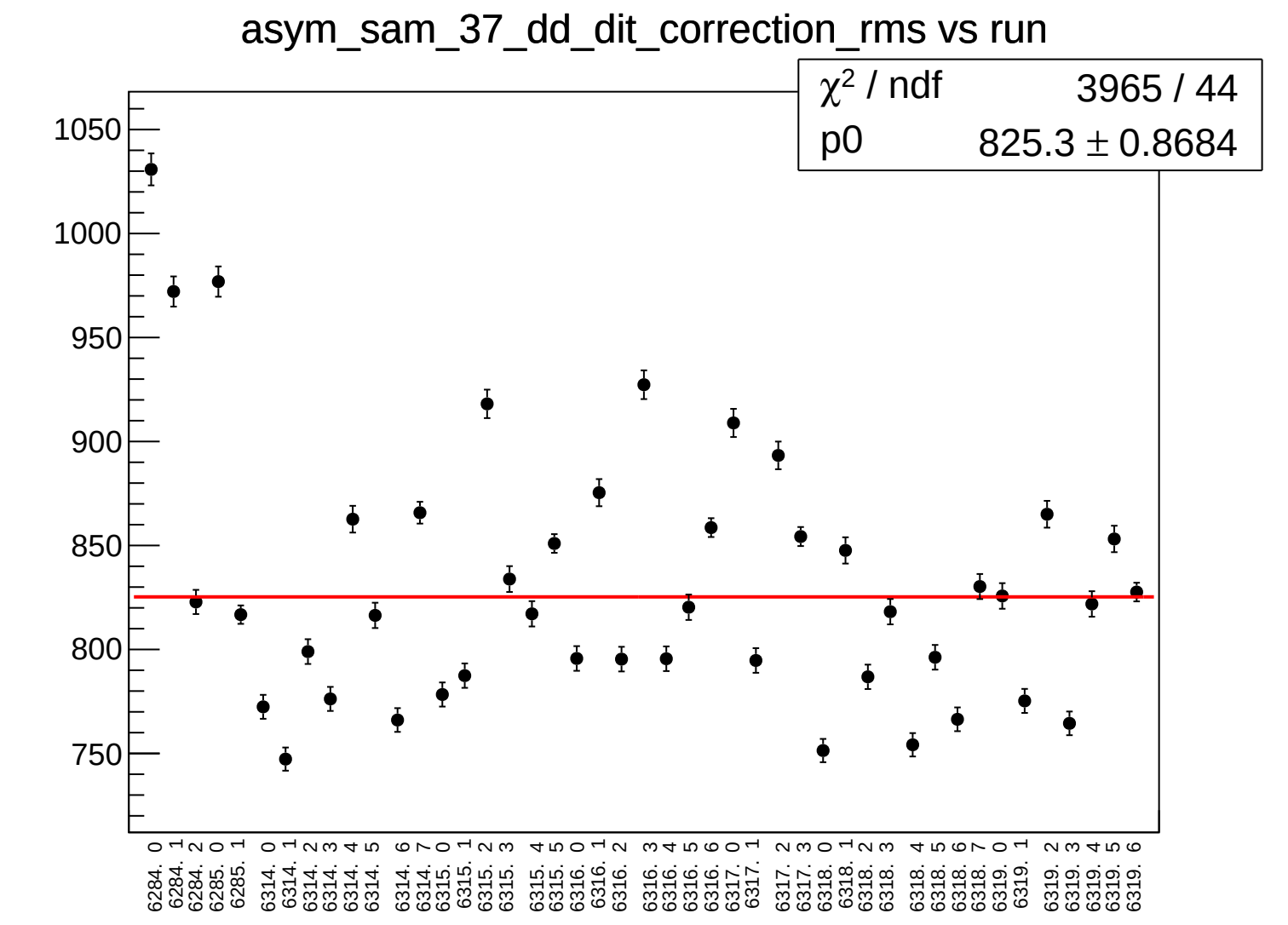
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 447.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003756
Std Dev 0.9463
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3965 / 44
p0 825.3 ± 0.8684
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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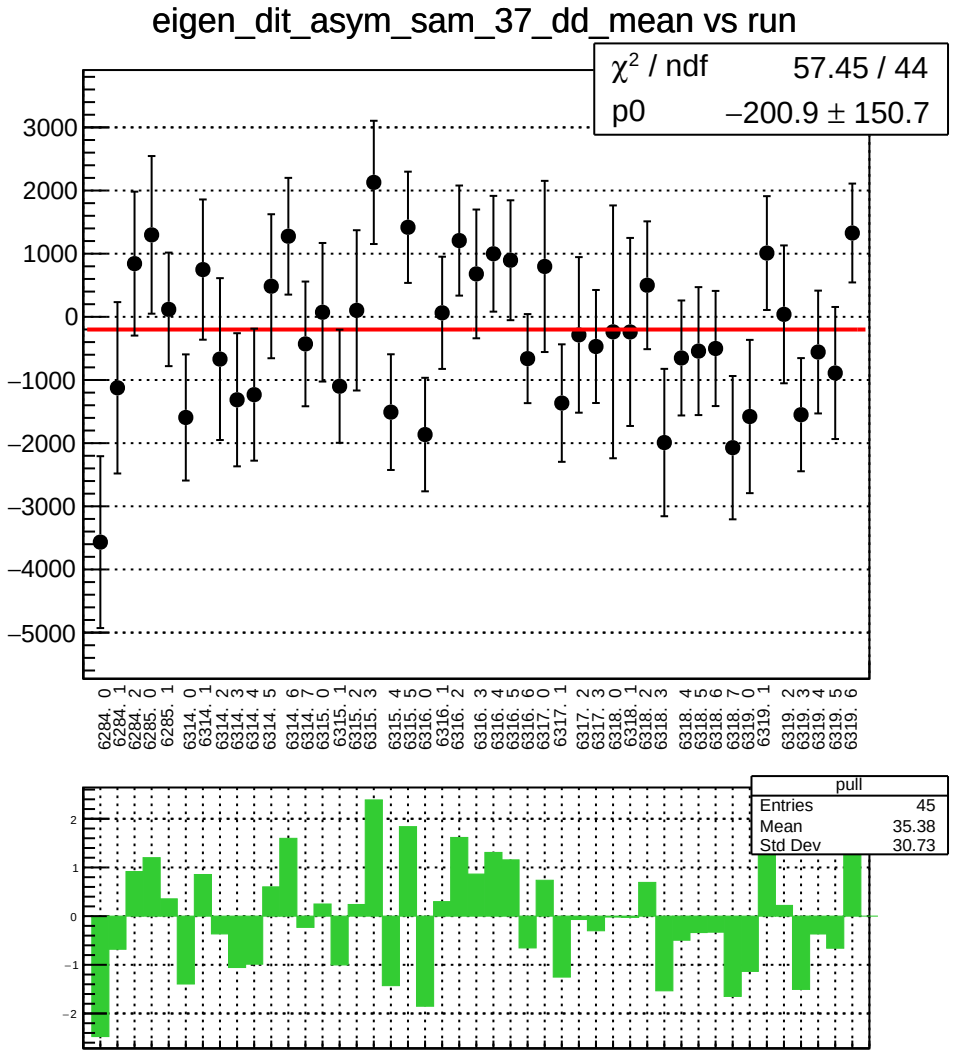
6319. 5
6319. 6


eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 57.45 / 44
p0 −200.9 ± 150.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
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6316. 5
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6317. 2
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 35.38
Std Dev 30.73
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03039
Std Dev 1.13
9
8
7
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5
4
3
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1
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2
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6
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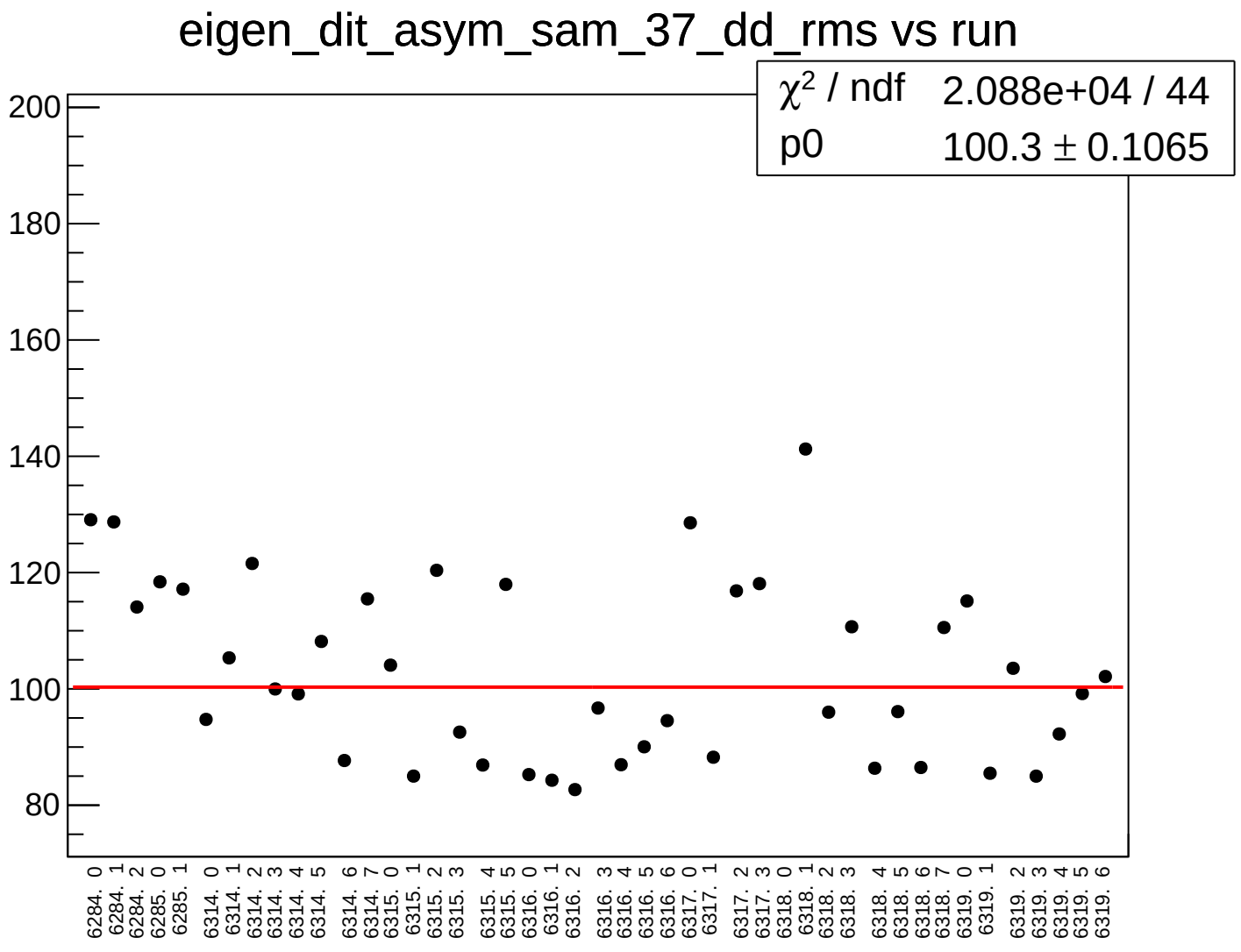
eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.088e+04 / 44
p0 100.3 ± 0.1065
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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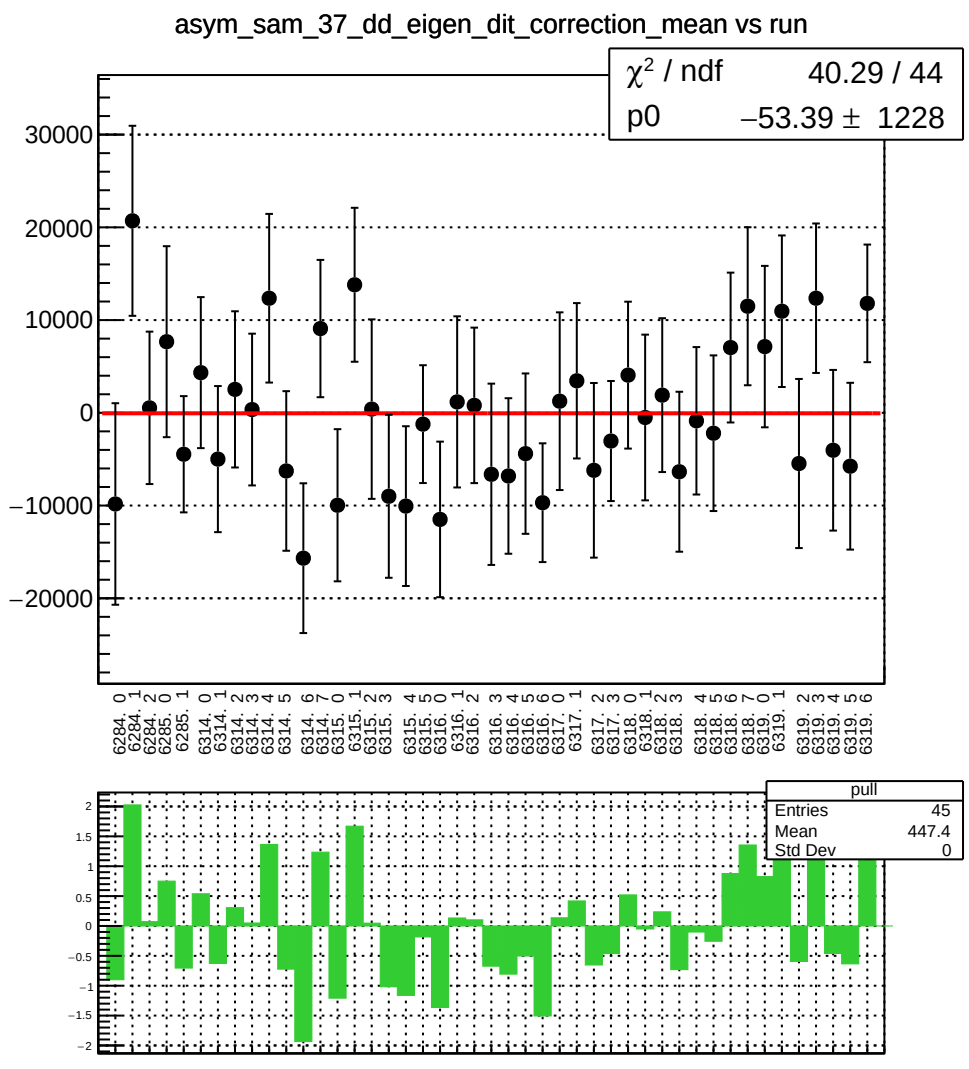
6319. 6


asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.29 / 44
p0 −53.39 ± 1228
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6317. 0
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6318. 0
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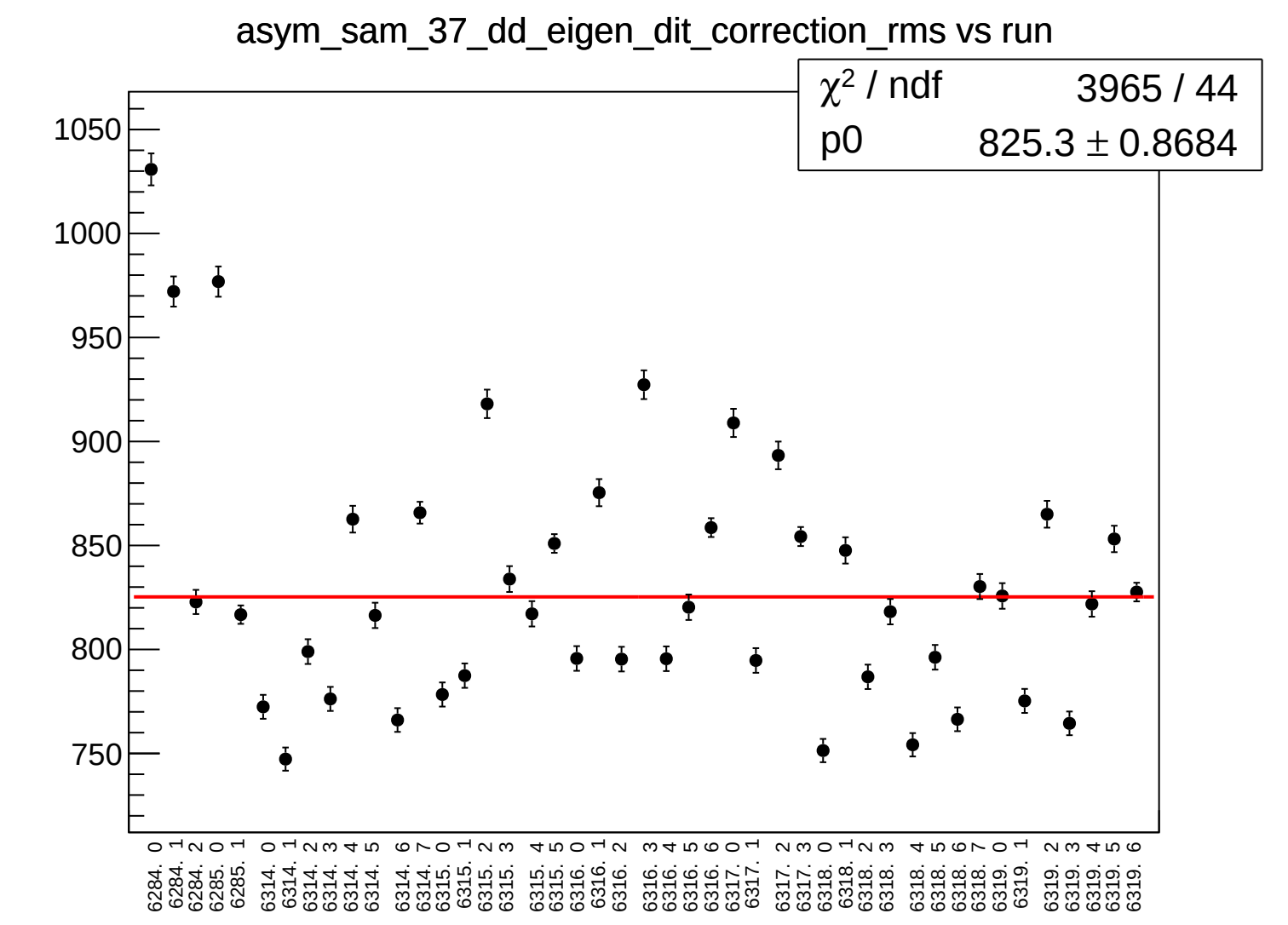
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 447.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003756
Std Dev 0.9463
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3965 / 44
p0 825.3 ± 0.8684
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 3
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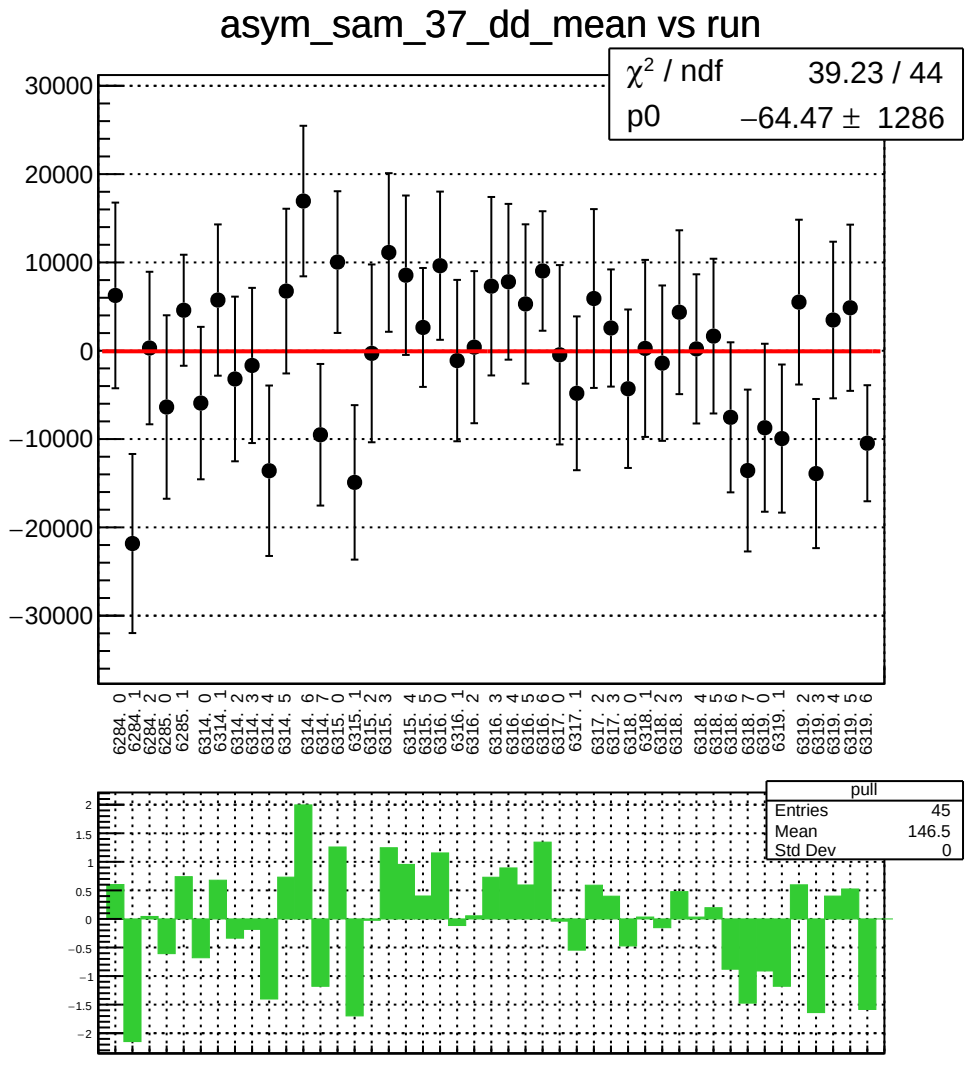
6319. 6


asym_sam_37_dd_mean vs run
χ² / ndf 39.23 / 44
p0 −64.47 ± 1286
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
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6318. 0
6318. 1
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6318. 6
6318. 7
6319. 0
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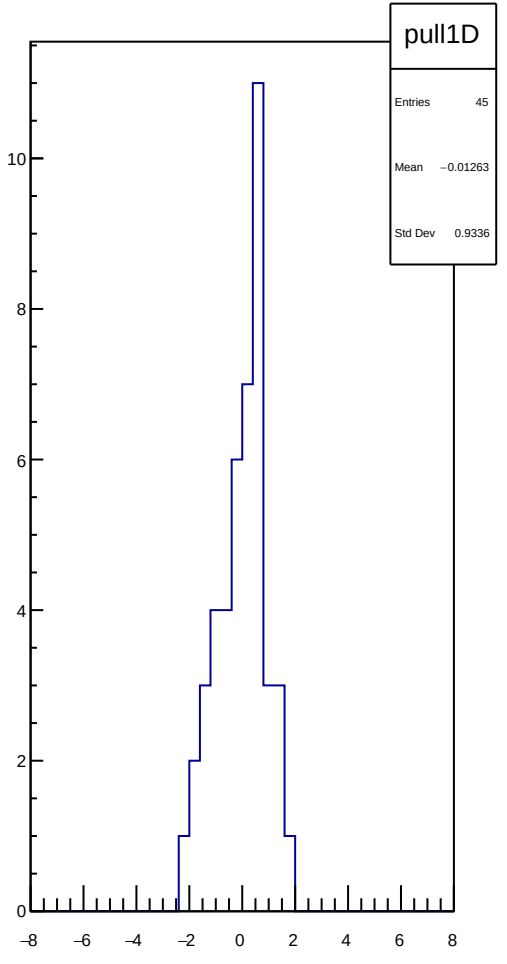
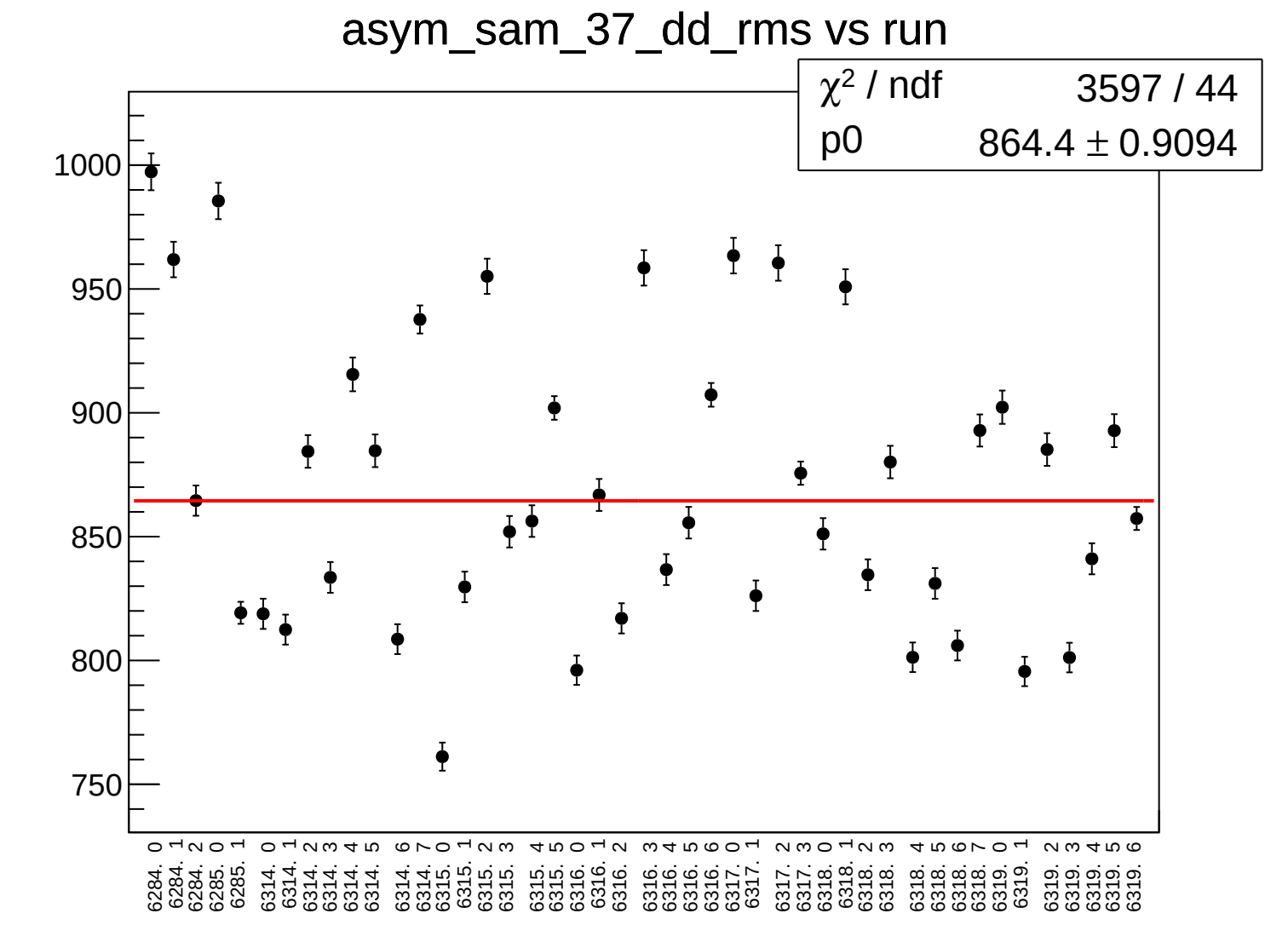
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 146.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01263
Std Dev 0.9336
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 3597 / 44
p0 864.4 ± 0.9094
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900
850
800
750
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6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
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6315. 0
6315. 1
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6316. 1
6316. 2
6316. 3
6316. 4
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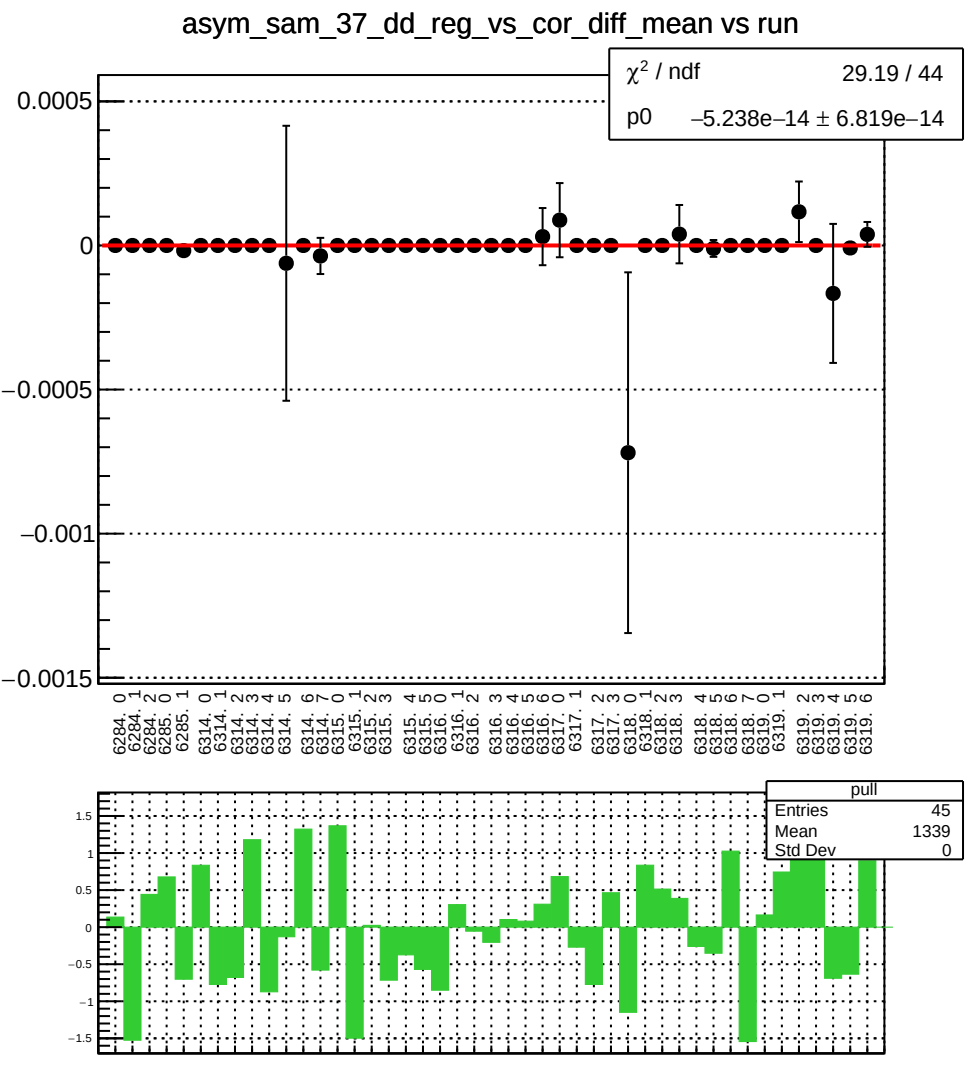
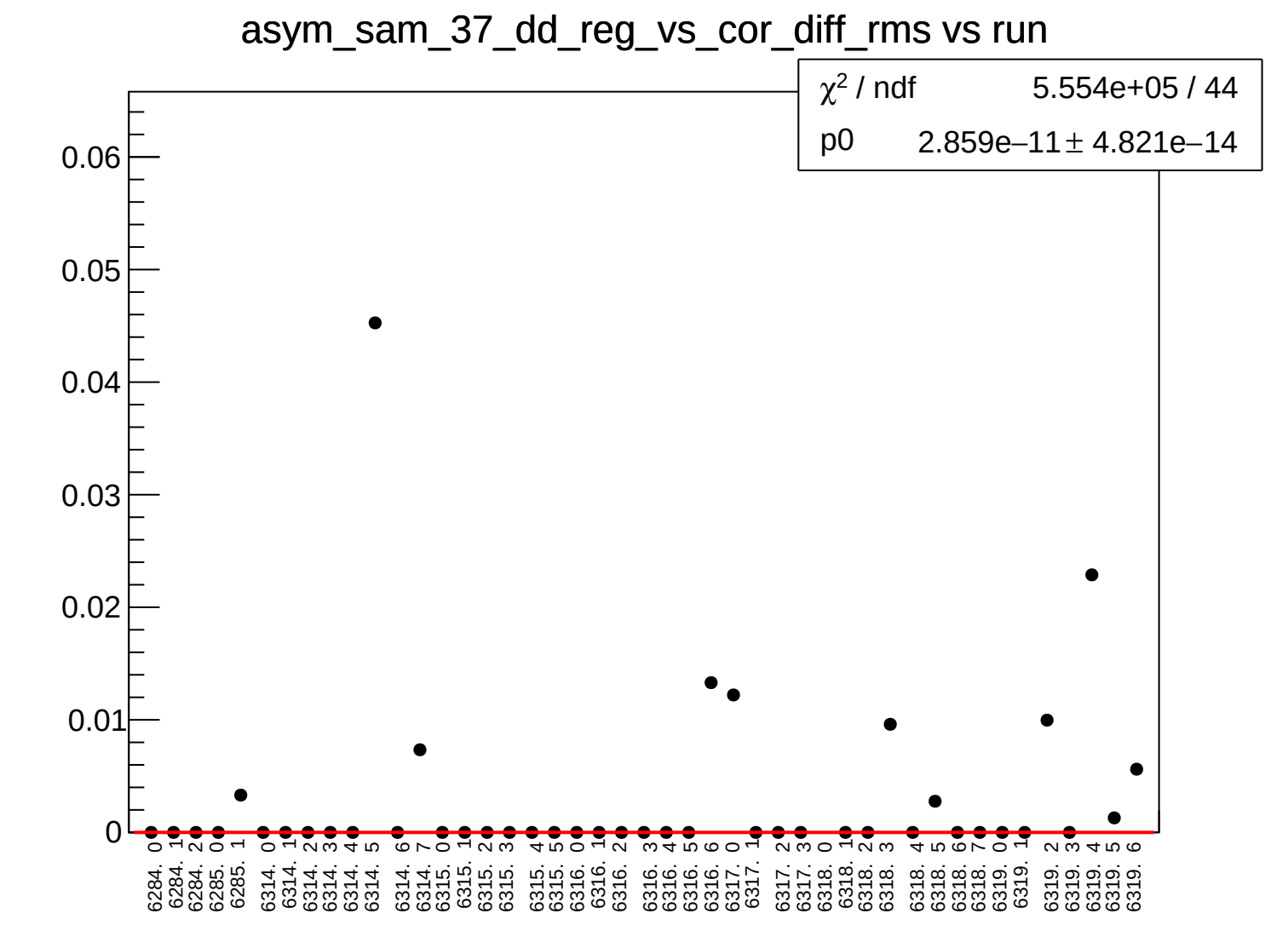
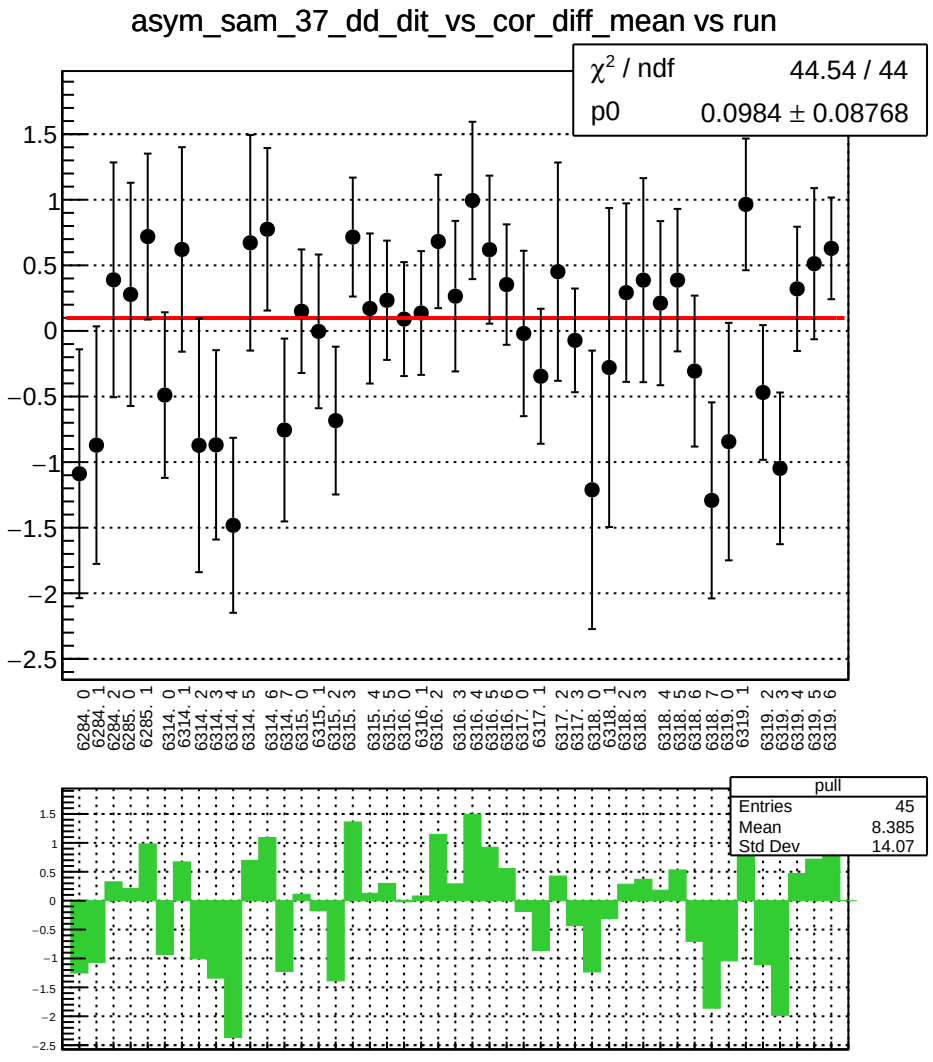
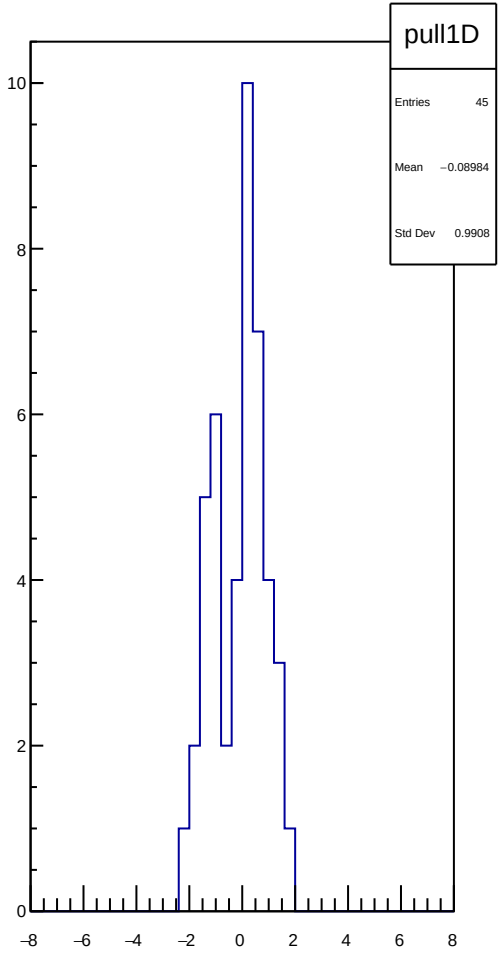
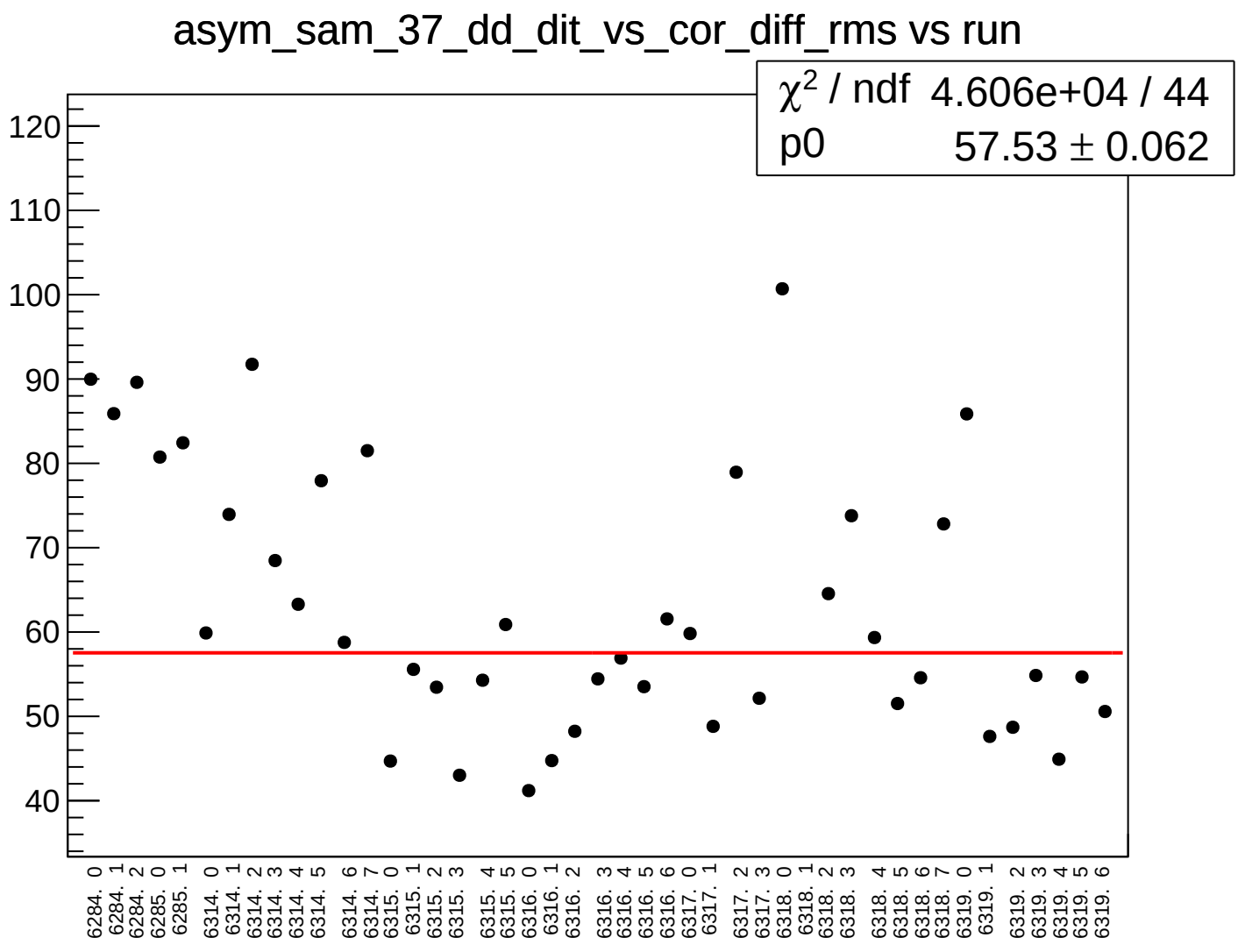
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

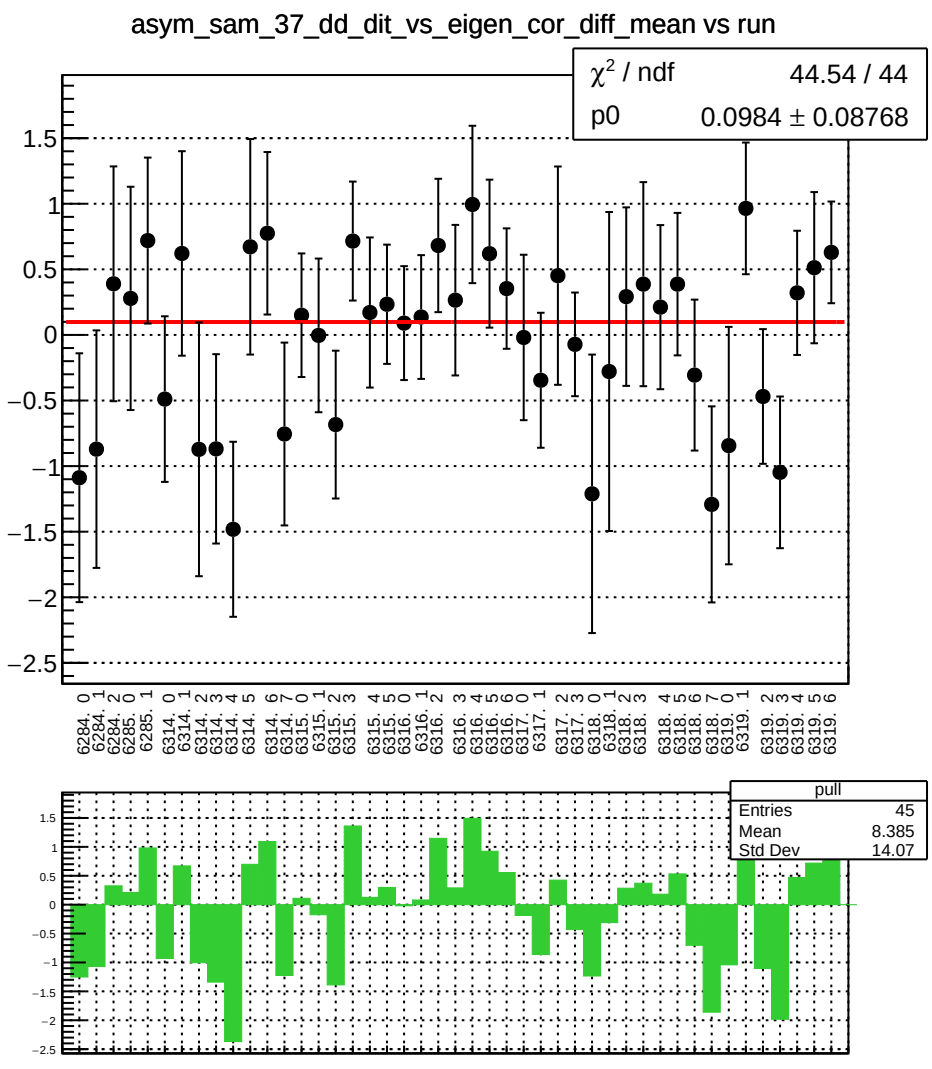

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.19 / 44
p0 −5.238e−14 ± 6.819e−14
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1339
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.001308
Std Dev 0.8054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

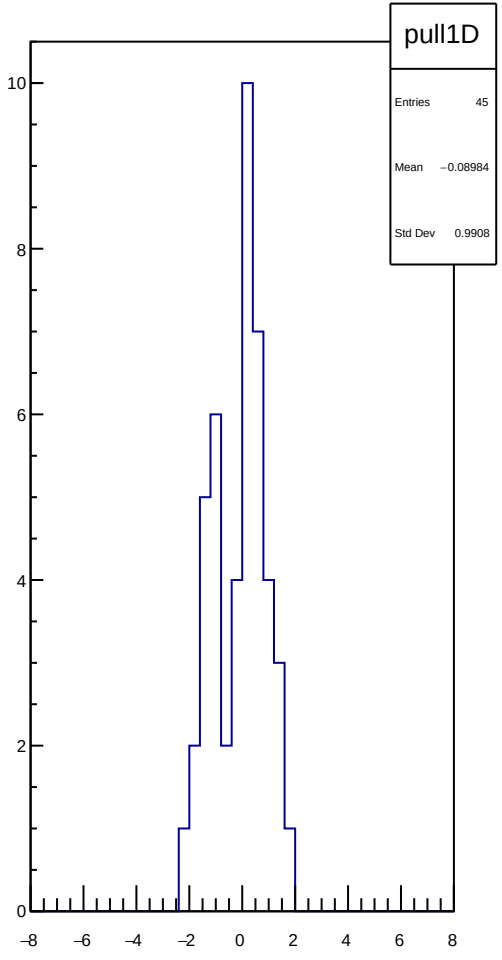

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.554e+05 / 44
p0 2.859e−11 ± 4.821e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

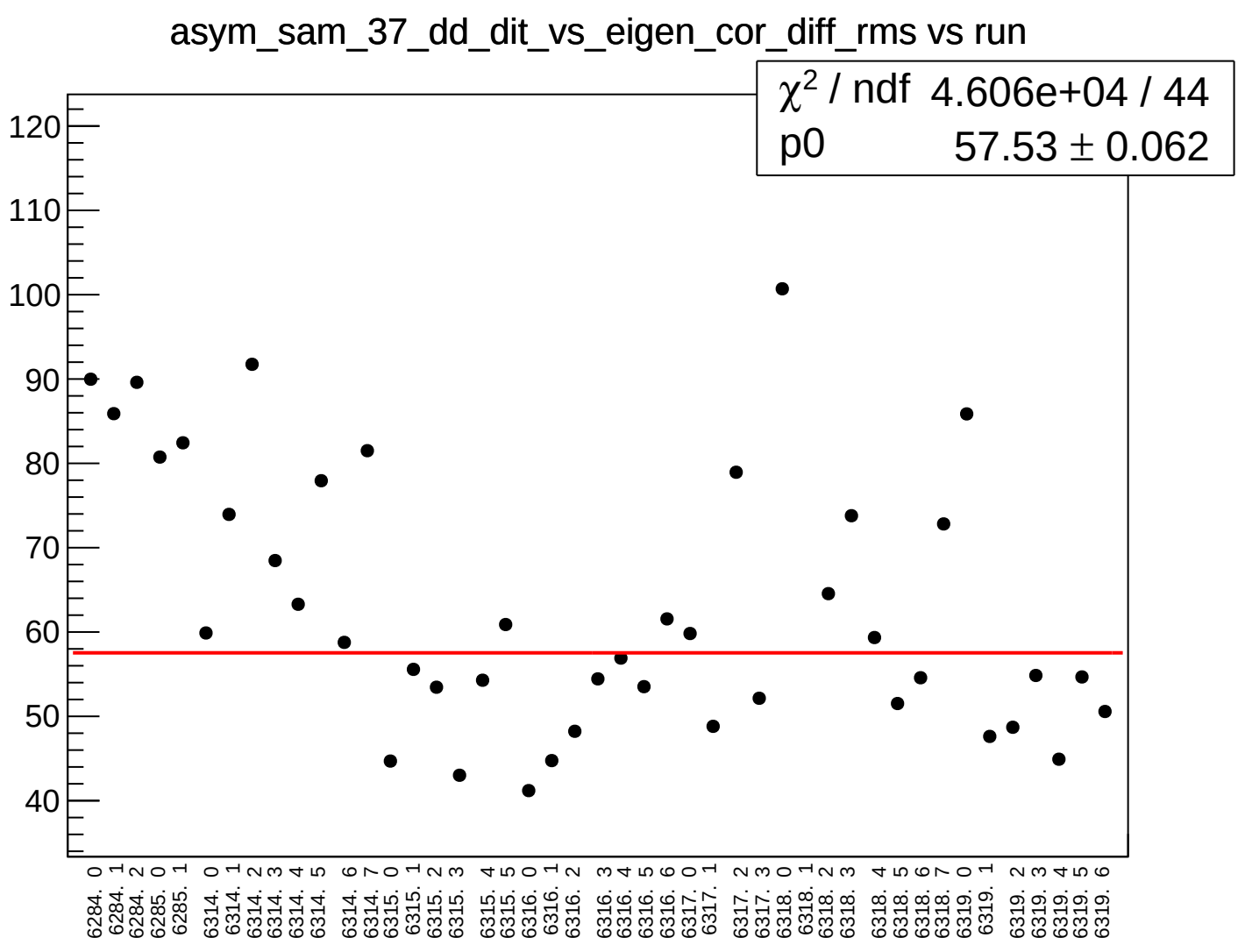

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.54 / 44
p0 0.0984 ± 0.08768
pull
Entries 45
Mean 8.385
Std Dev 14.07

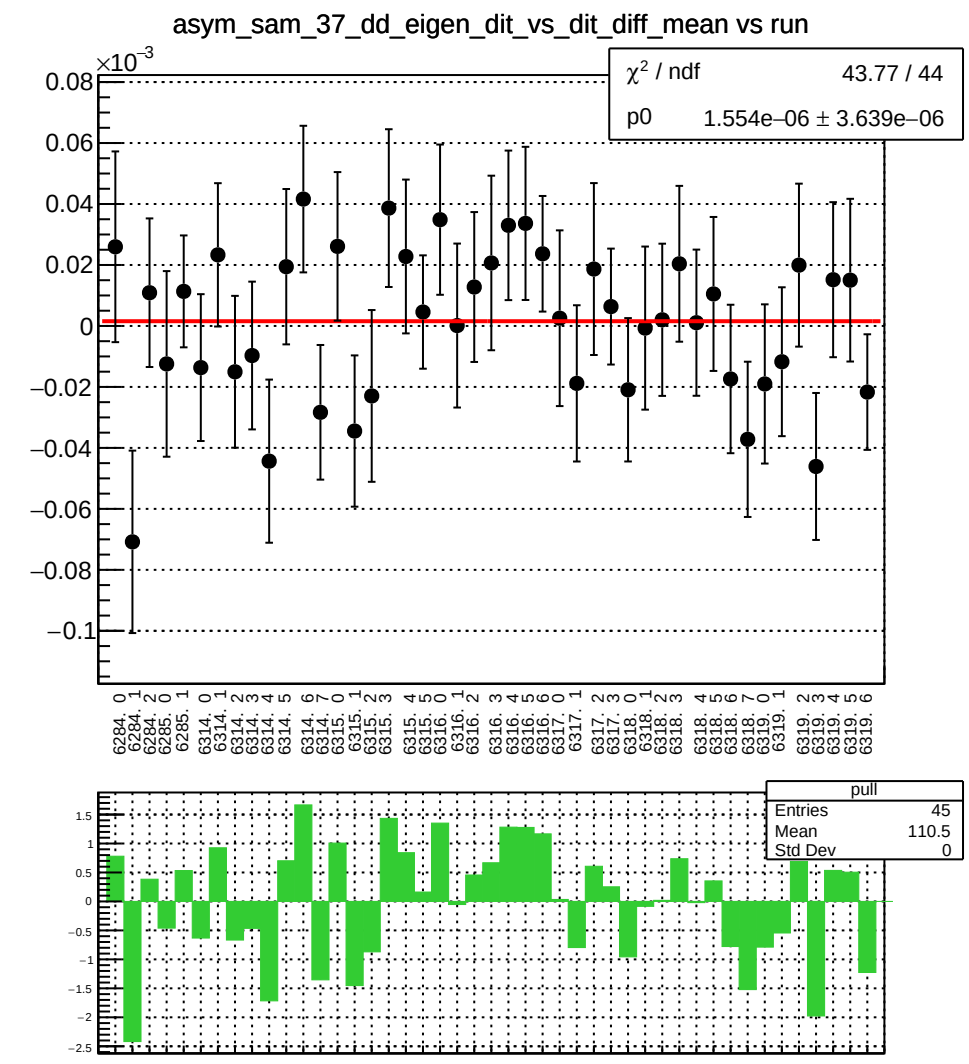

pull1D
Entries 45
Mean −0.08984
Std Dev 0.9908

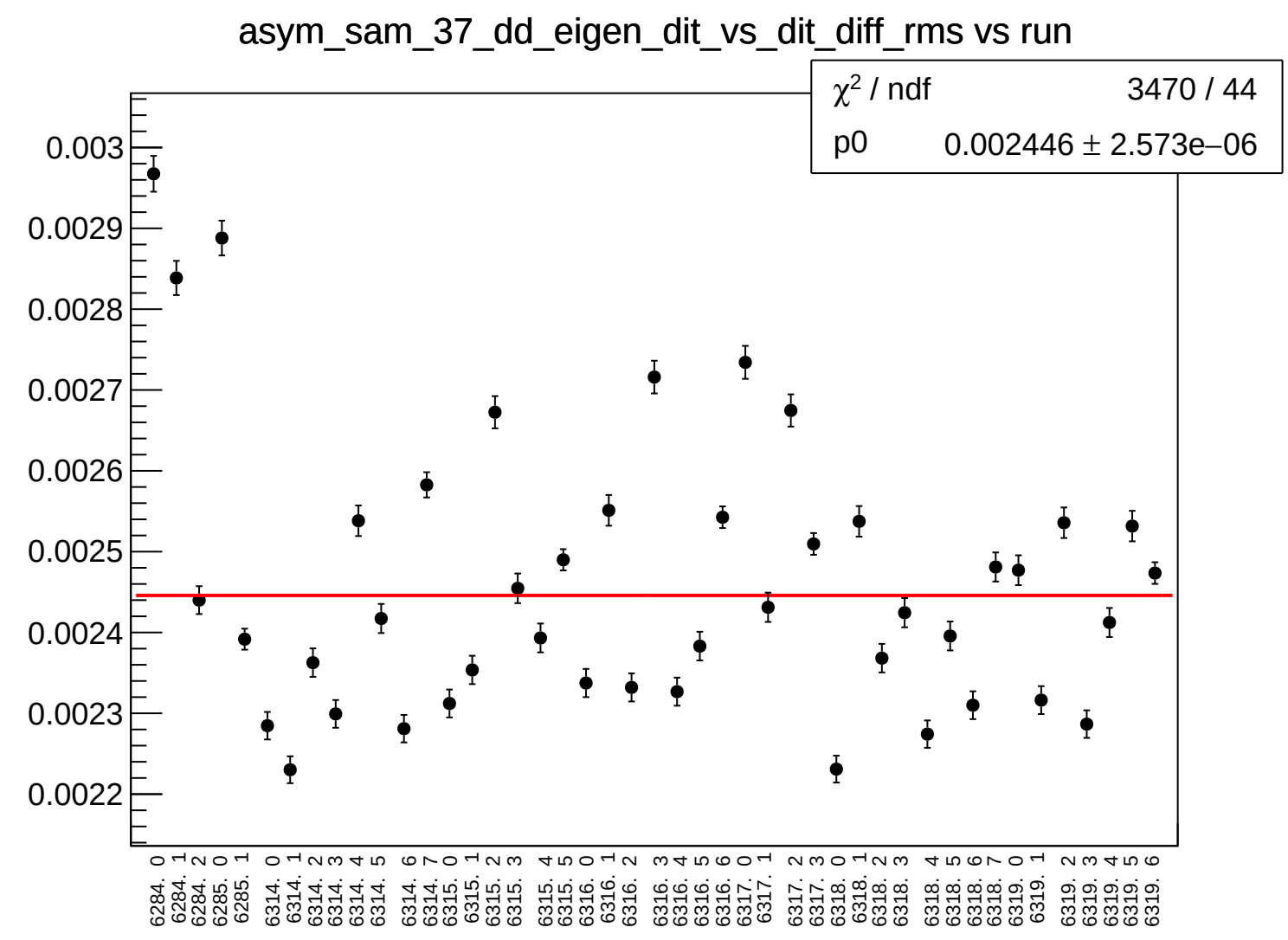

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 44
p0 57.53 ± 0.062
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

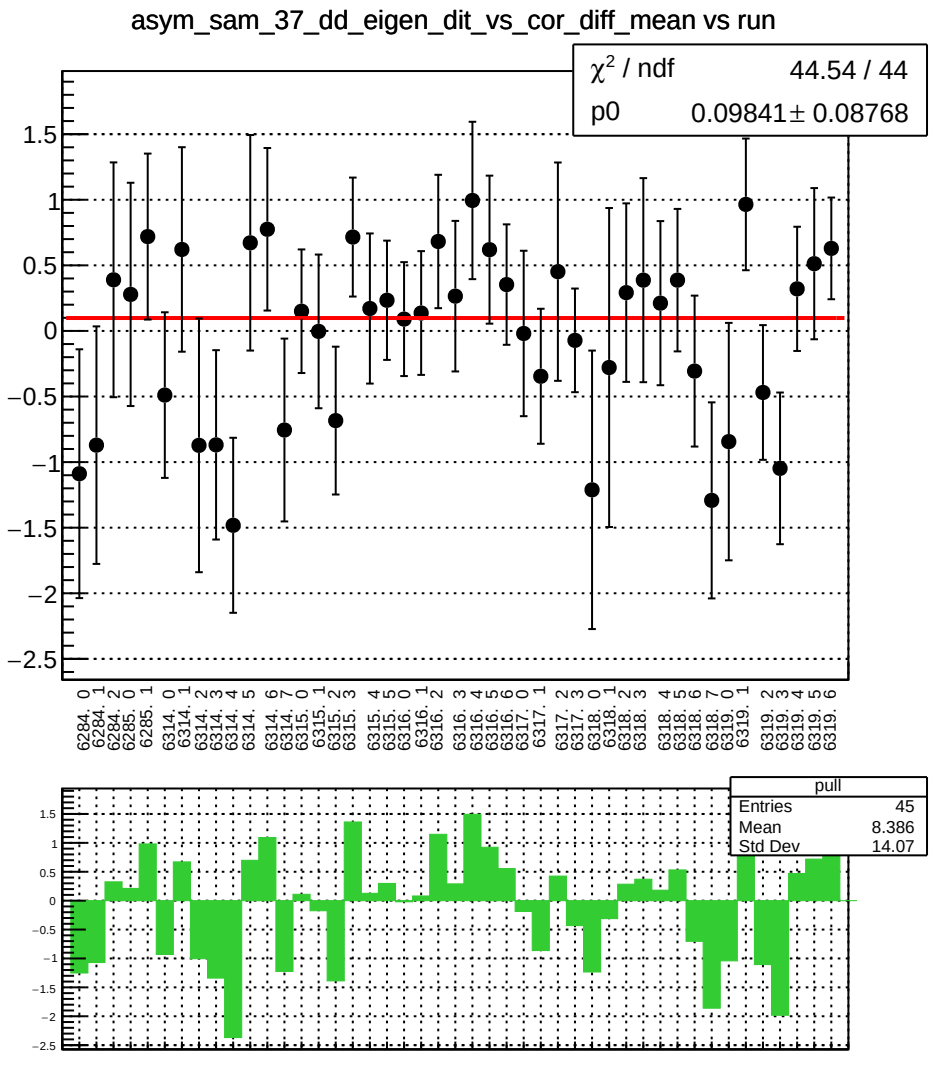

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.54 / 44
p0 0.0984 ± 0.08768
pull
Entries 45
Mean 8.385
Std Dev 14.07

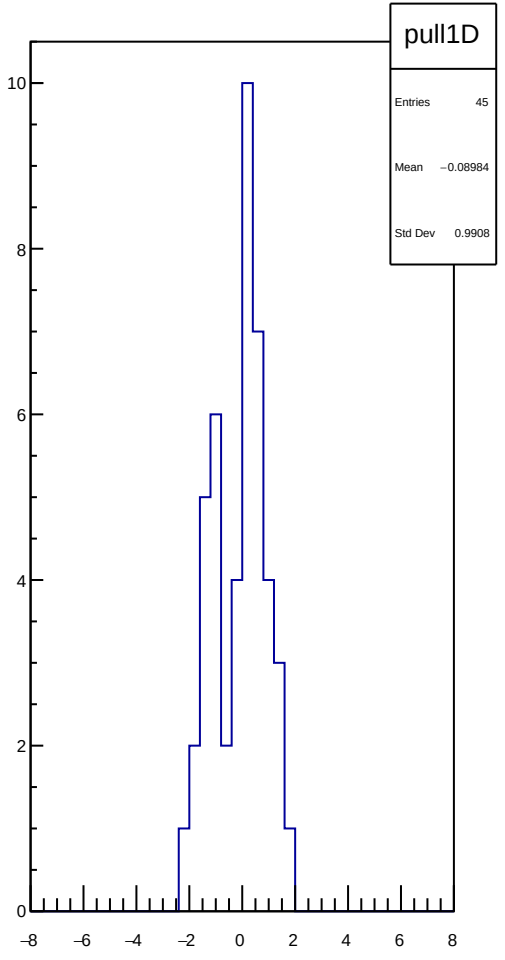

pull1D
Entries 45
Mean −0.08984
Std Dev 0.9908

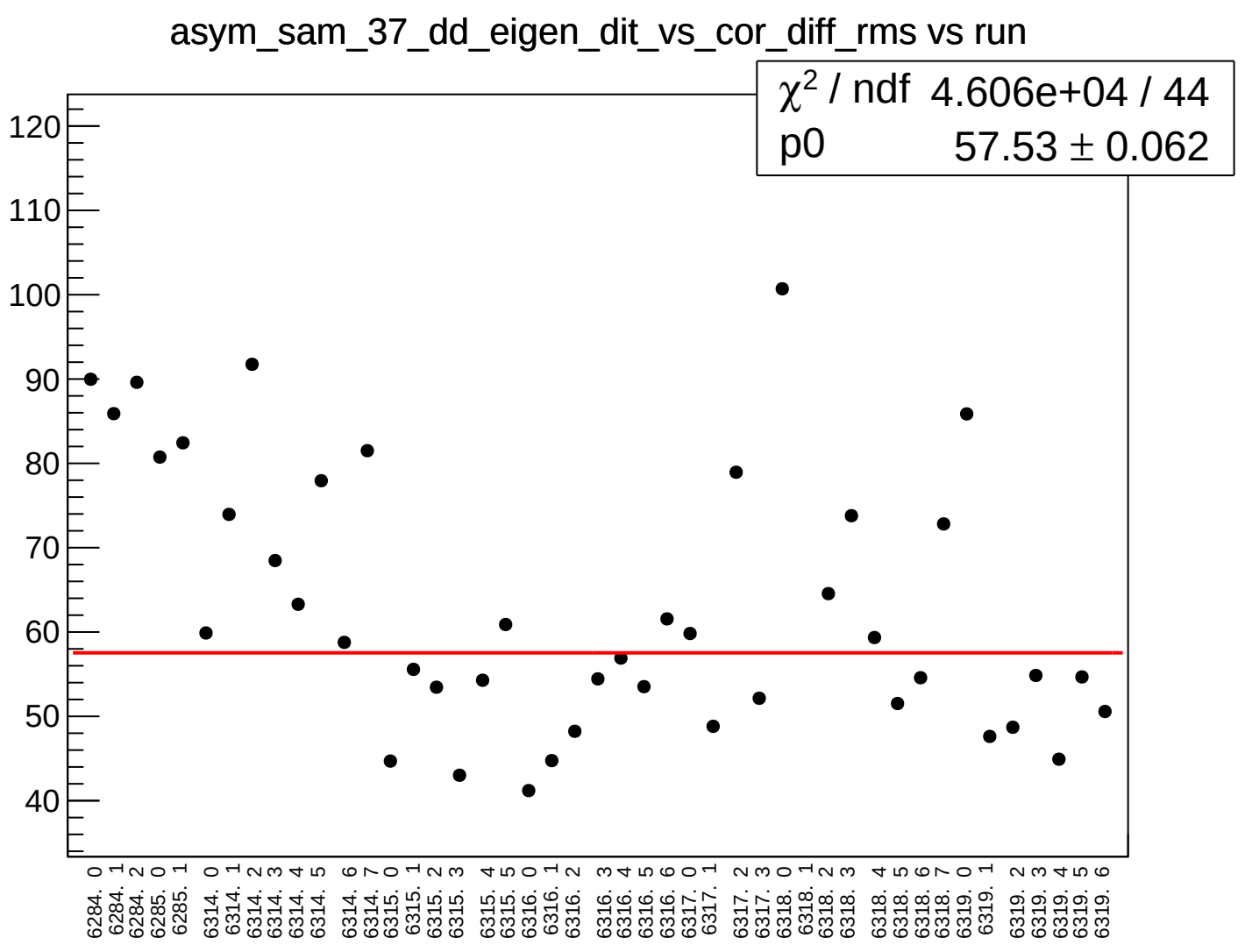

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 44
p0 57.53 ± 0.062
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.77 / 44
p0 1.554e−06 ± 3.639e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 110.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.009065
Std Dev 0.9862
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3470 / 44
p0 0.002446 ± 2.573e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.54 / 44
p0 0.09841 ± 0.08768
pull
Entries 45
Mean 8.386
Std Dev 14.07


pull1D
Entries 45
Mean −0.08984
Std Dev 0.9908


asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 44
p0 57.53 ± 0.062
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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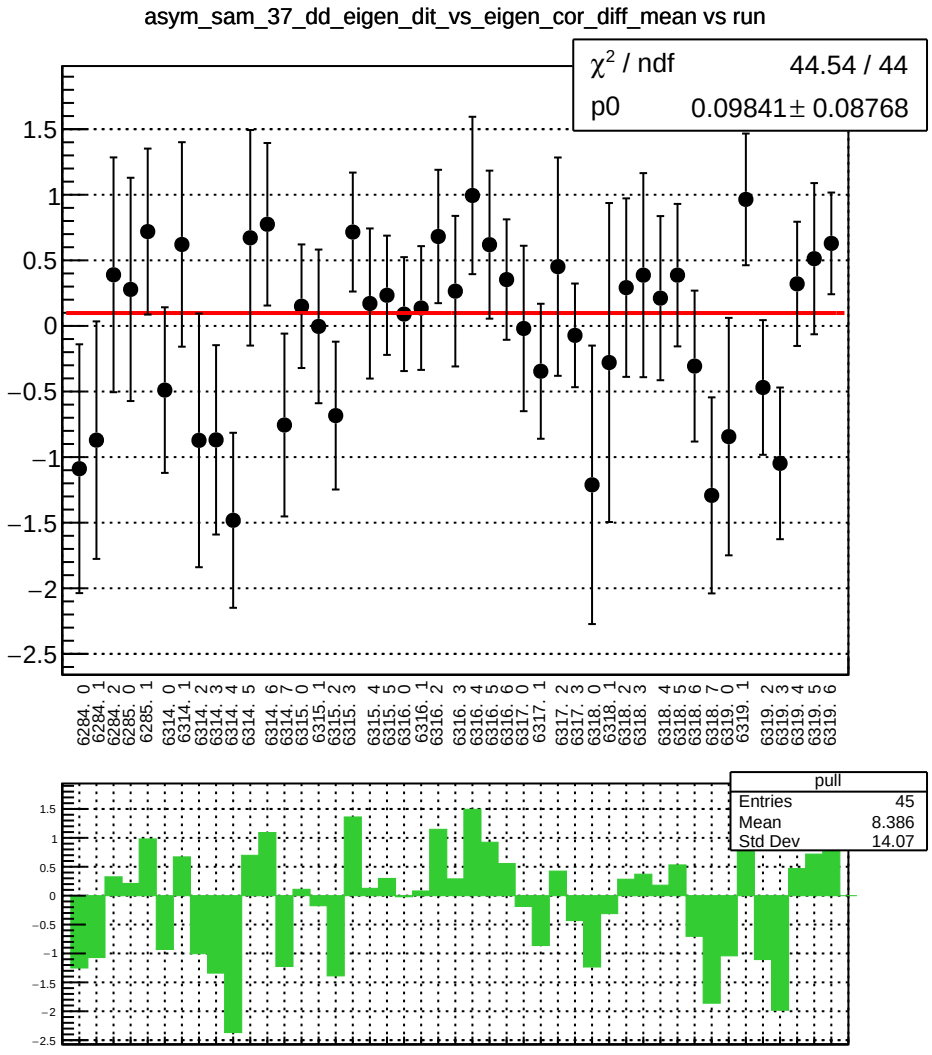
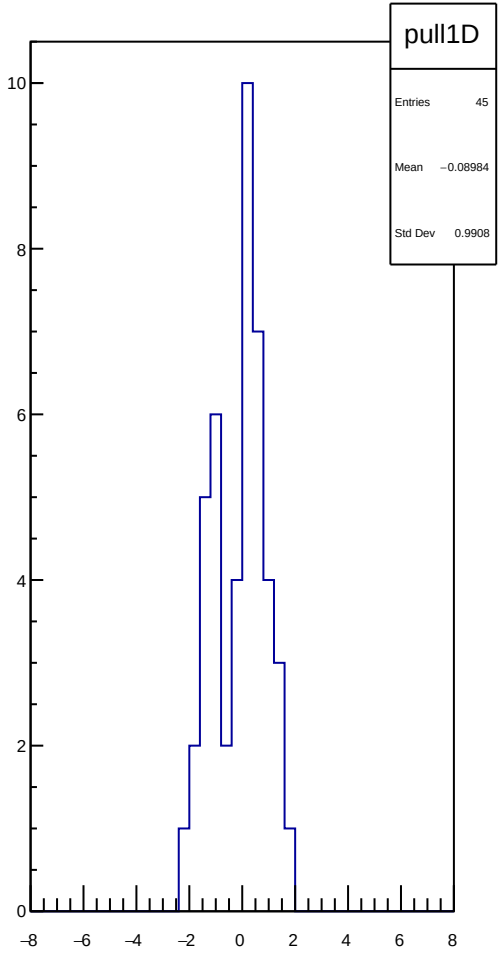
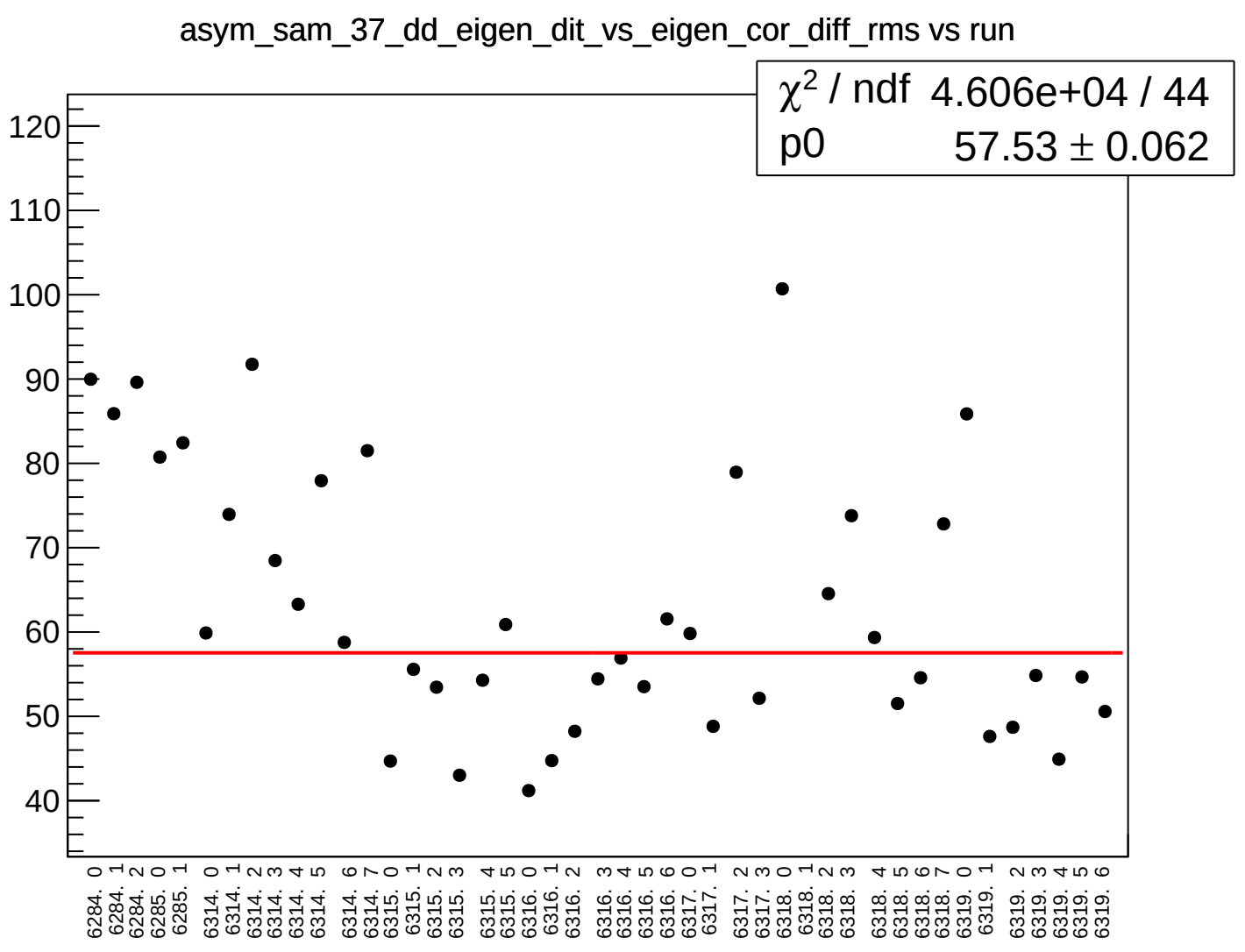
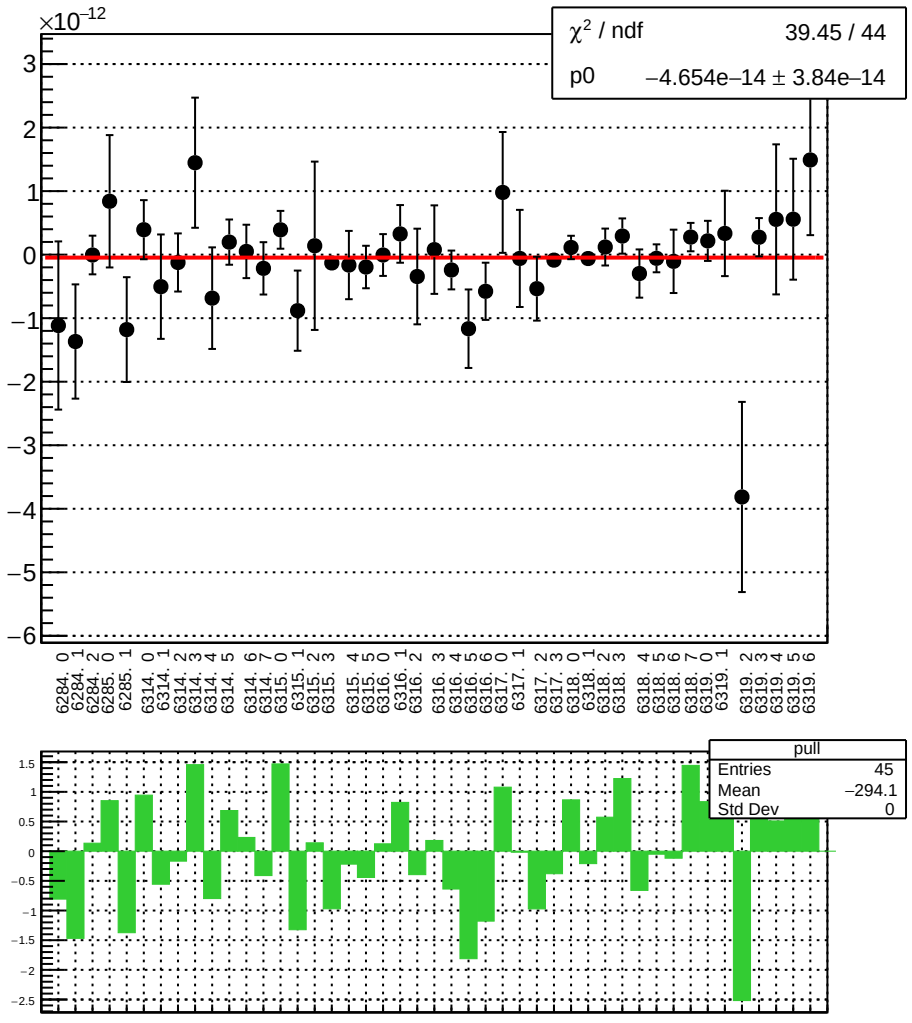
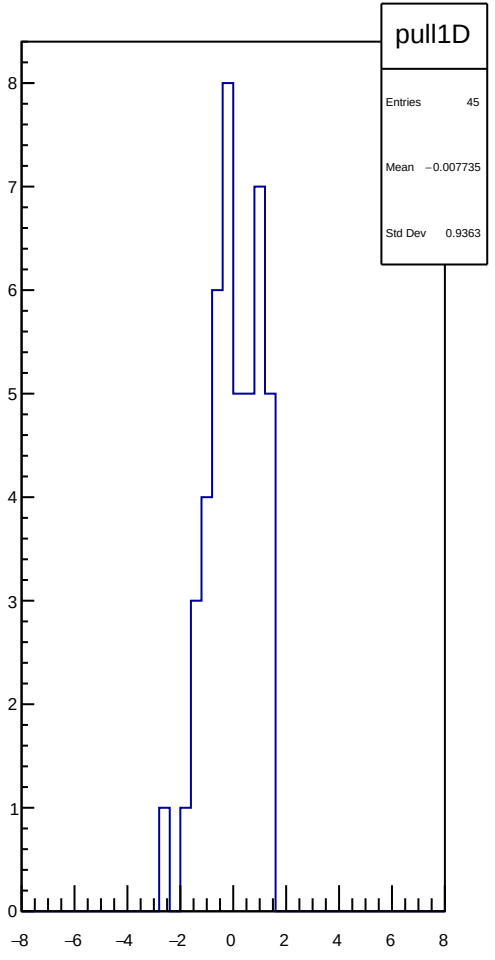
6319. 5
6319. 6

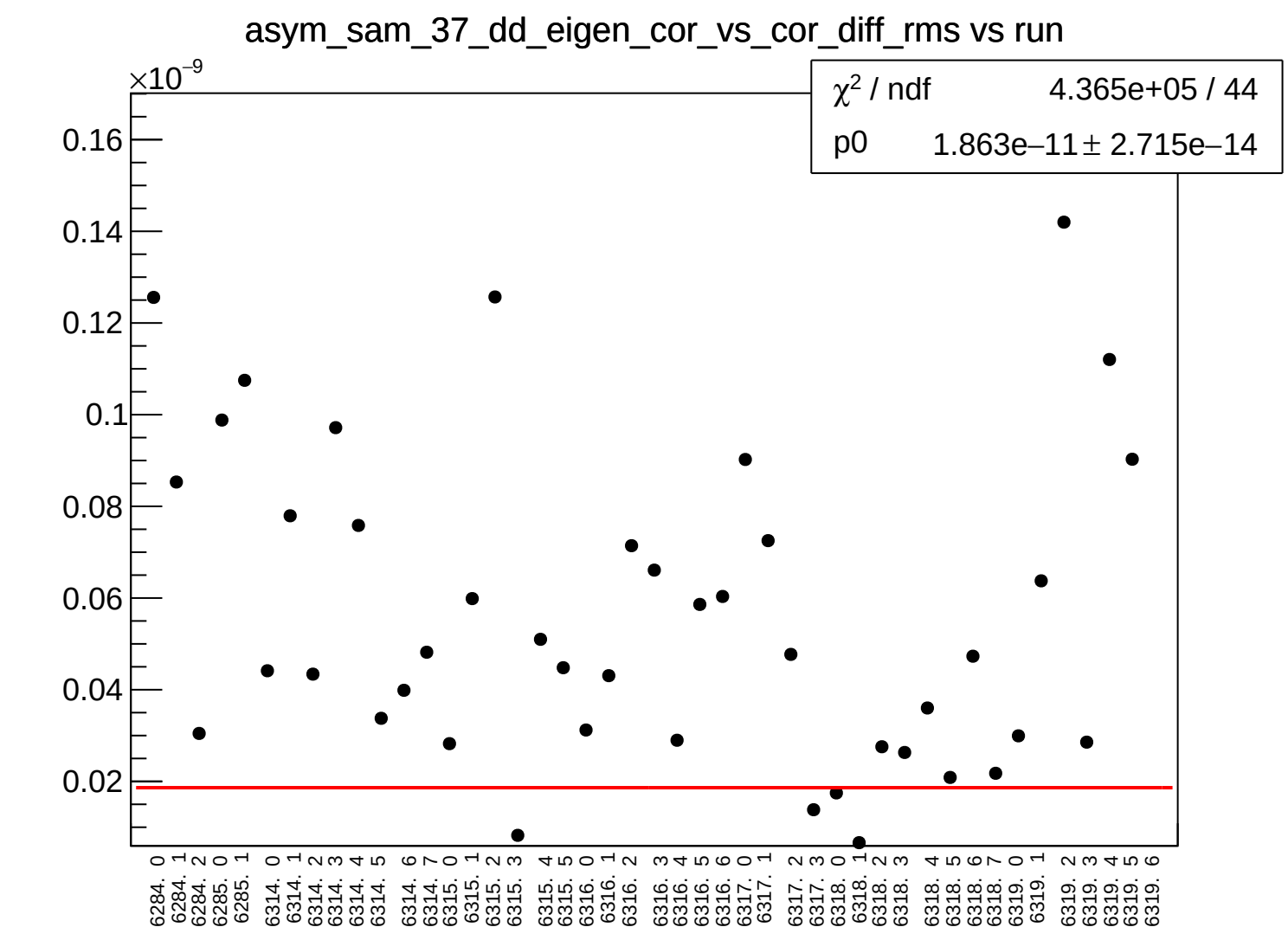

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.54 / 44
p0 0.09841 ± 0.08768
pull
Entries 45
Mean 8.386
Std Dev 14.07


pull1D
Entries 45
Mean −0.08984
Std Dev 0.9908


asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 44
p0 57.53 ± 0.062
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.45 / 44
p0 −4.654e−14 ± 3.84e−14
pull
Entries 45
Mean −294.1
Std Dev 0


pull1D
Entries 45
Mean −0.007735
Std Dev 0.9363


asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.365e+05 / 44
p0 1.863e−11 ± 2.715e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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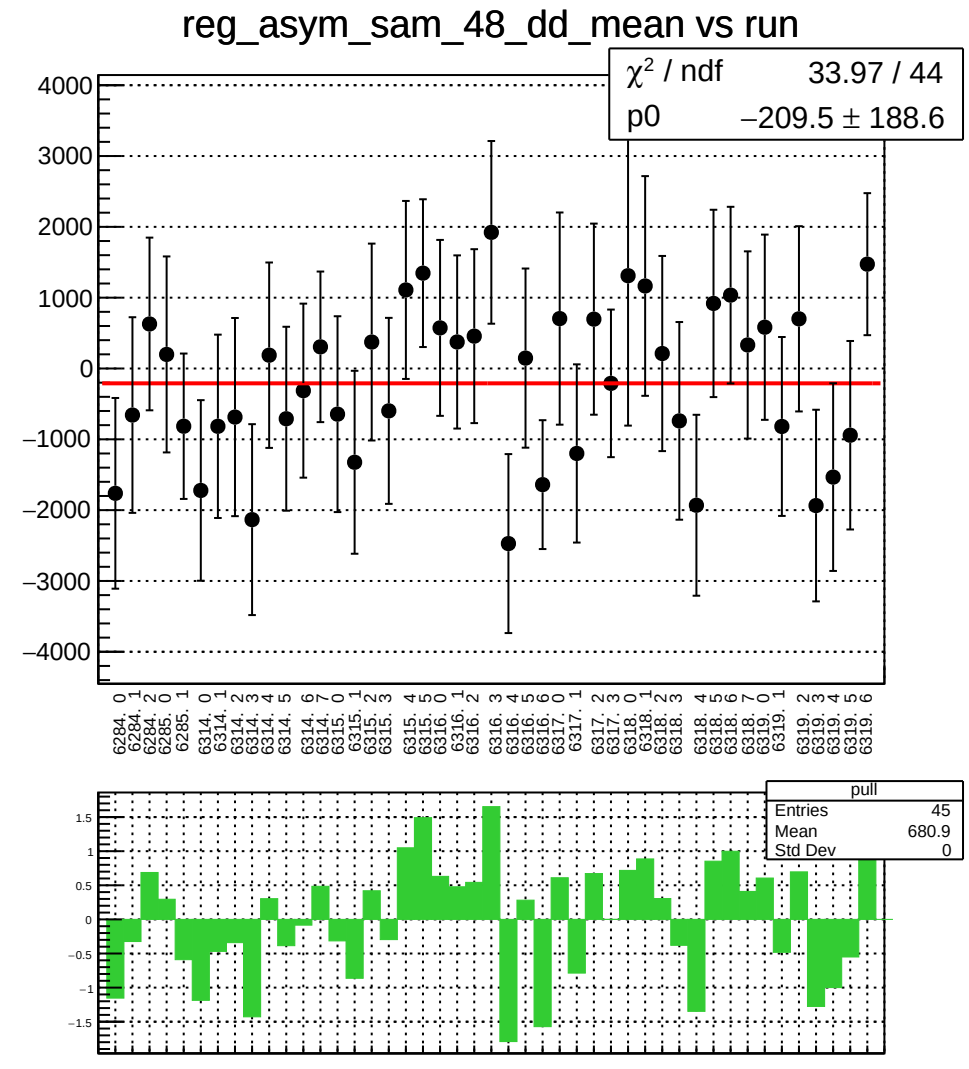
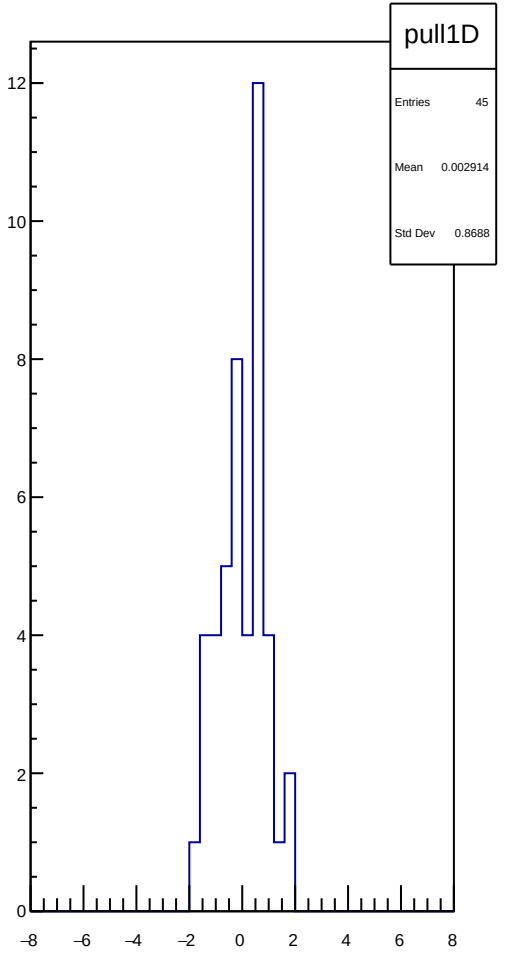
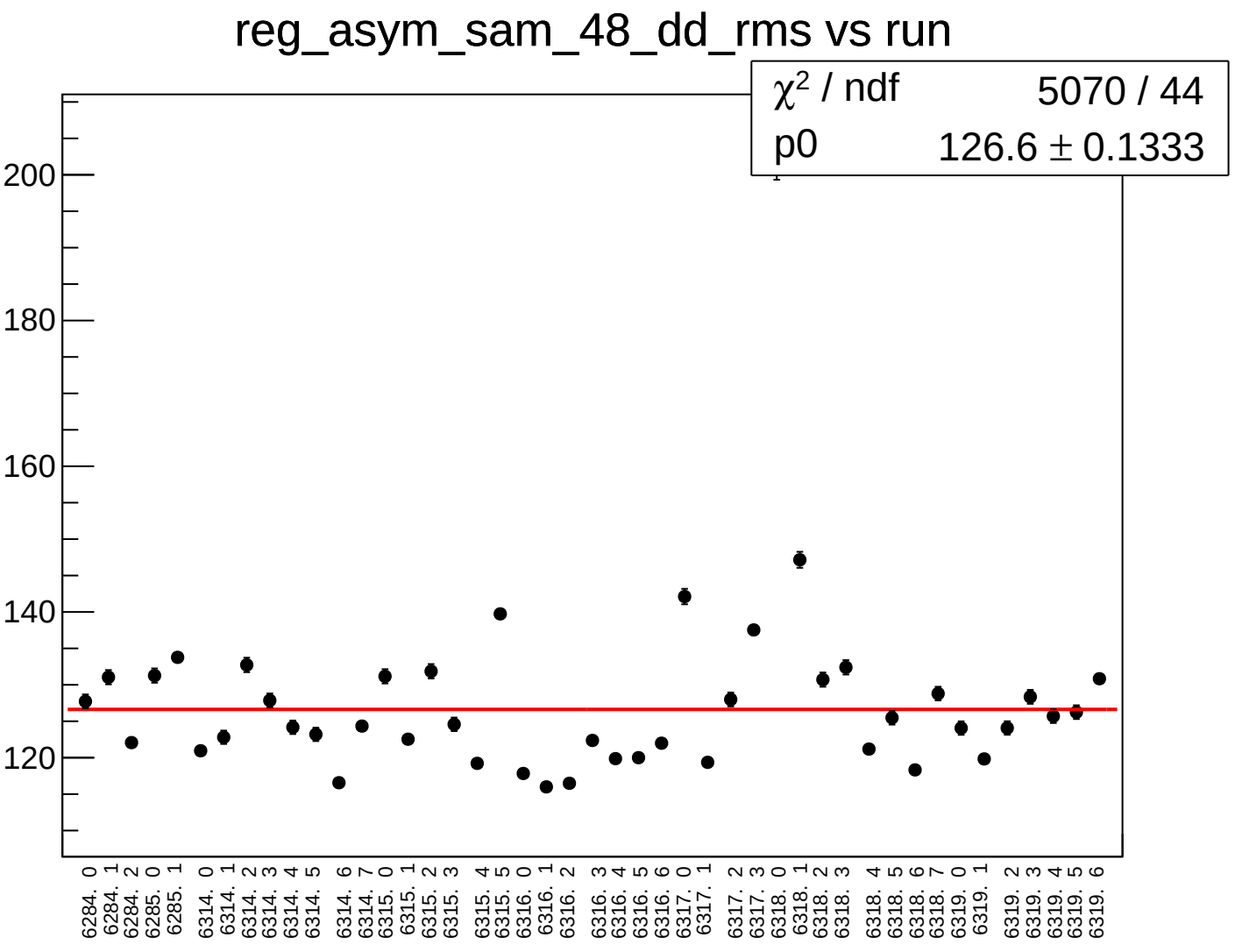
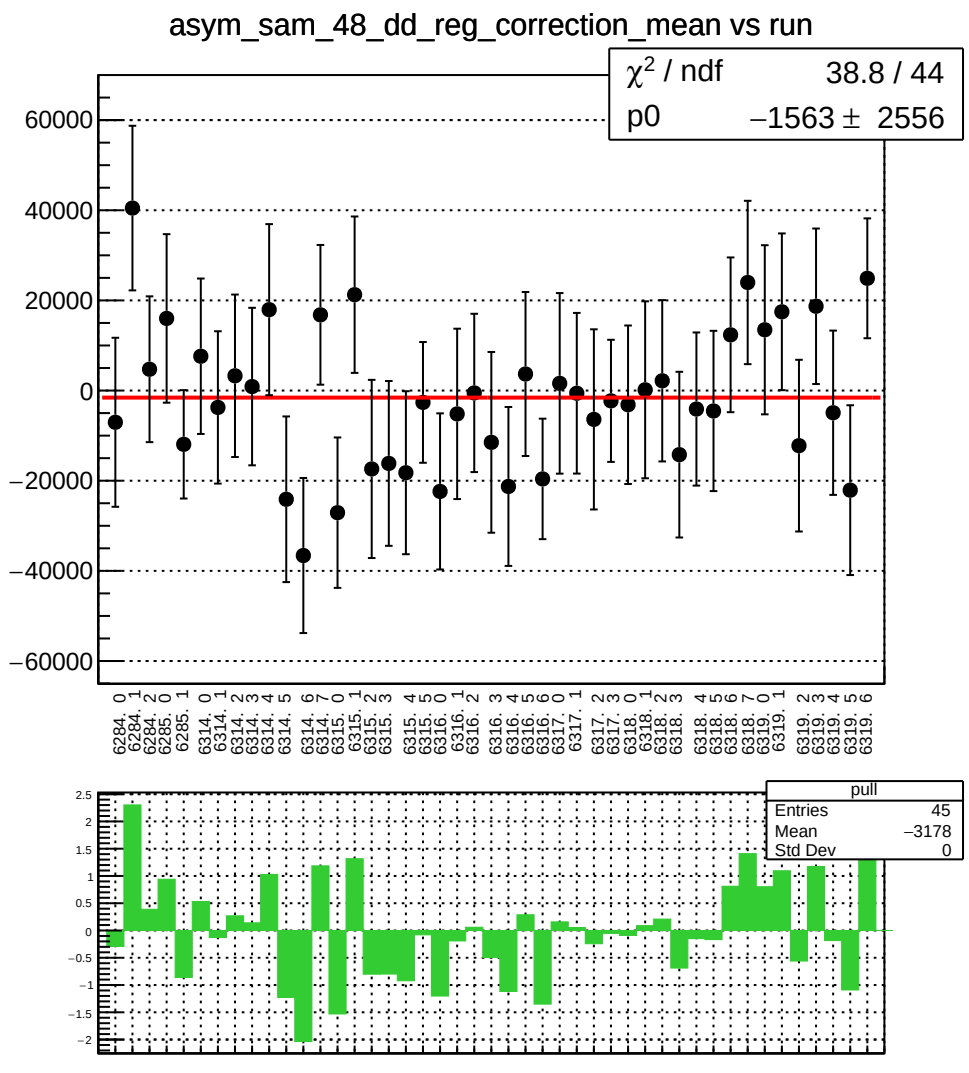
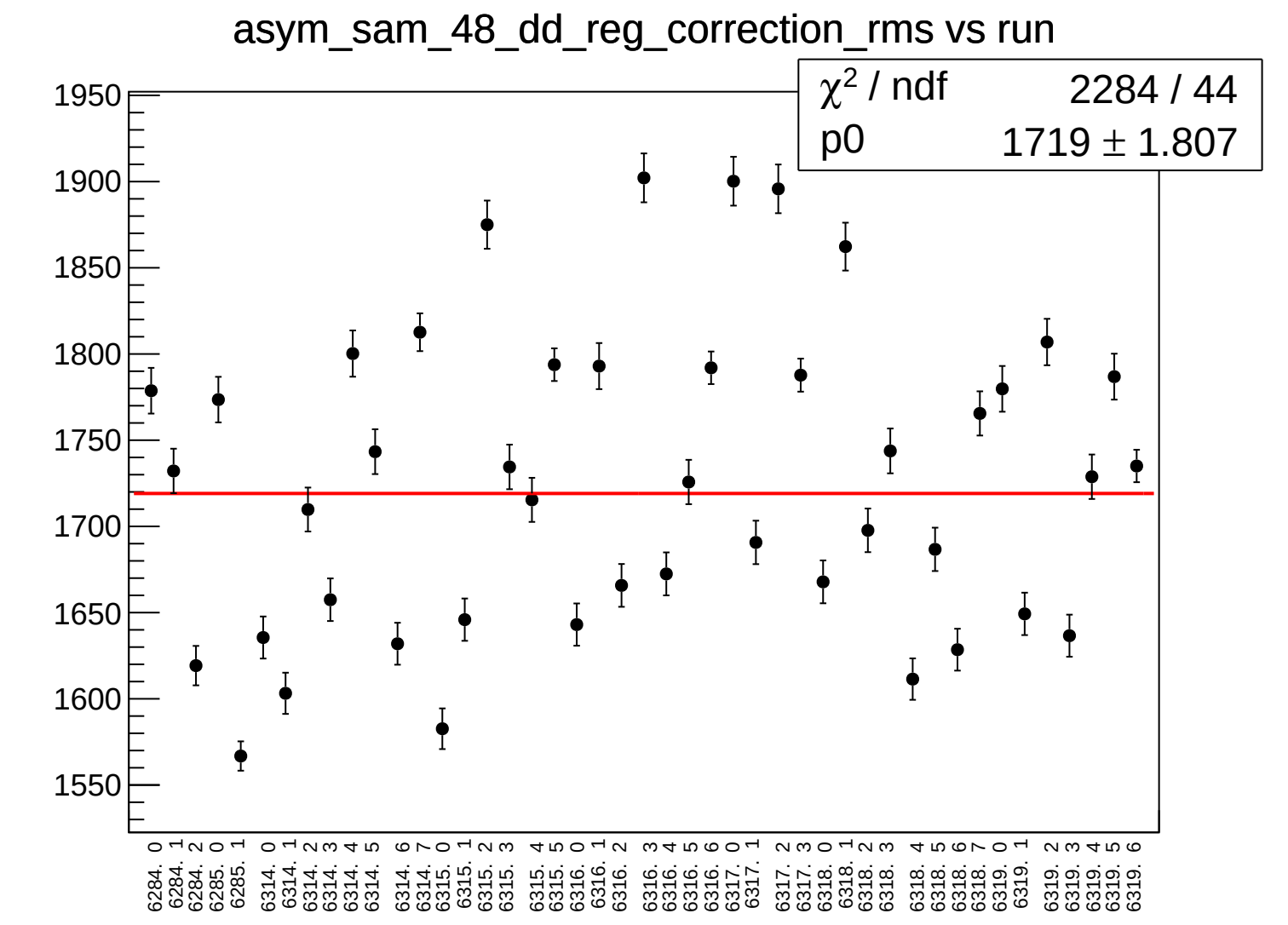
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_48_dd_mean vs run
χ² / ndf 33.97 / 44
p0 −209.5 ± 188.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 680.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.002914
Std Dev 0.8688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_rms vs run
χ² / ndf 5070 / 44
p0 126.6 ± 0.1333
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 38.8 / 44
p0 −1563 ± 2556
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3178
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0003326
Std Dev 0.9286
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2284 / 44
p0 1719 ± 1.807
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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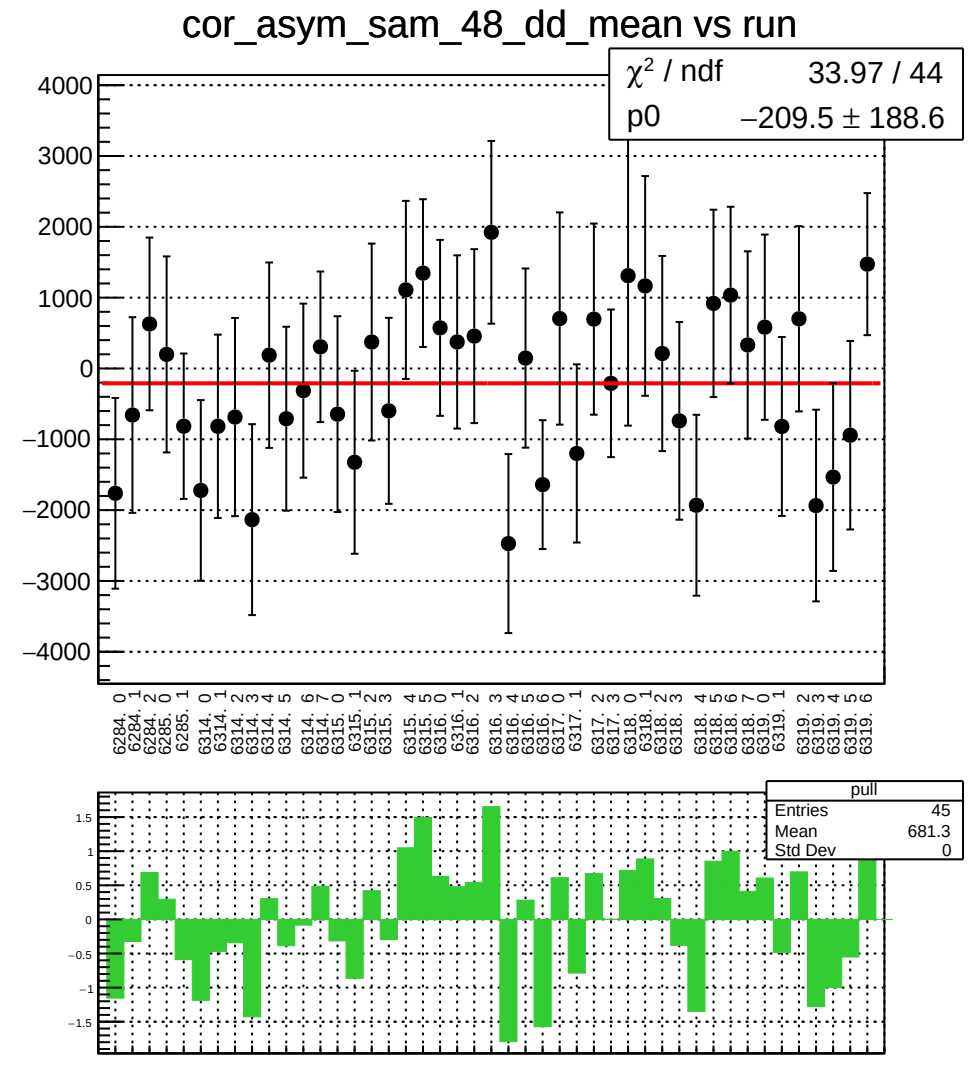
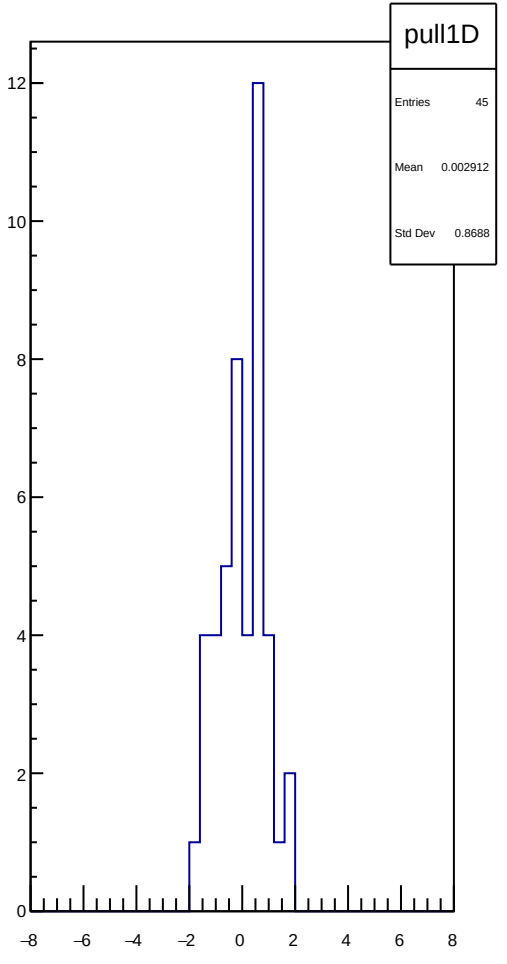
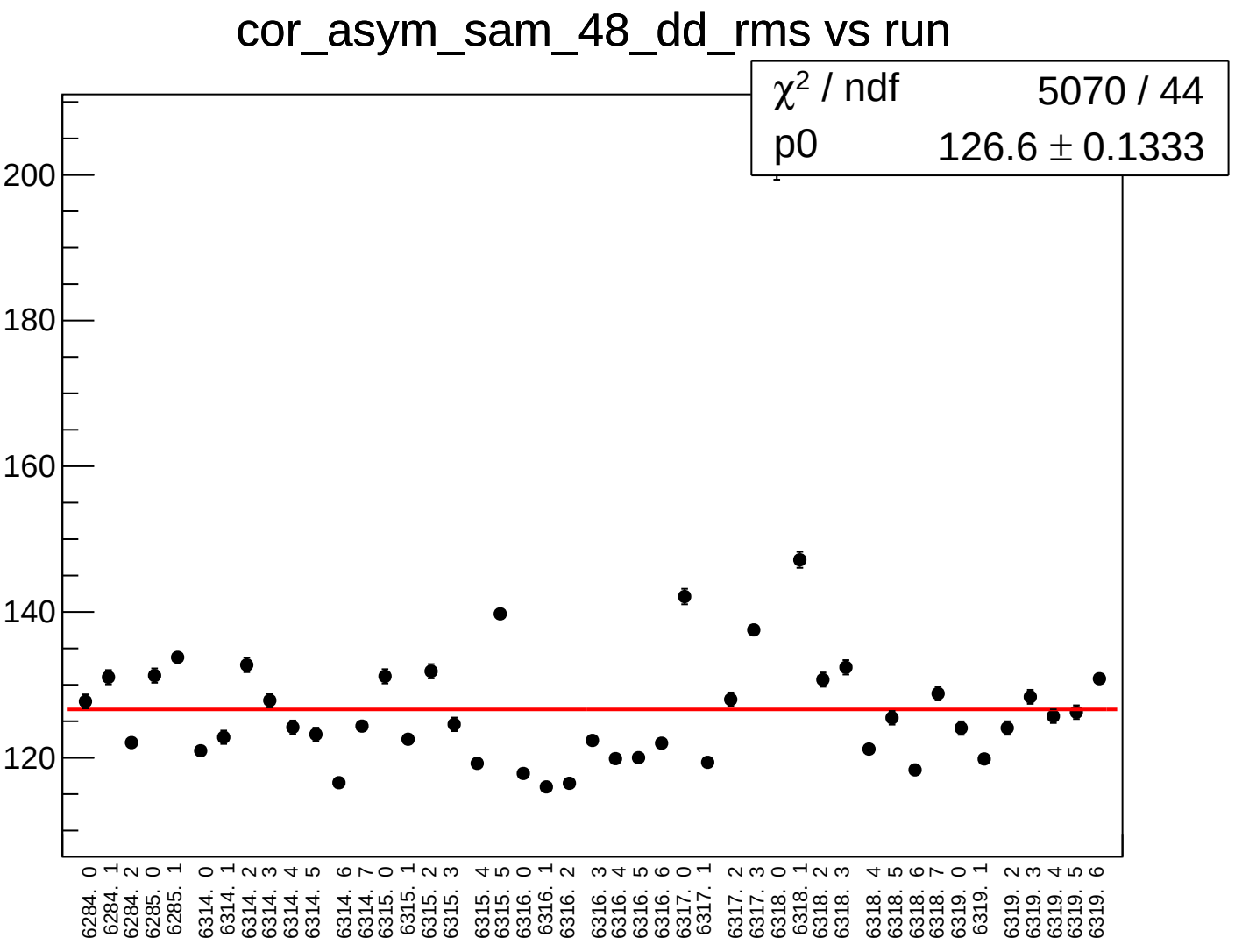
6319. 5
6319. 6


cor_asym_sam_48_dd_mean vs run
χ² / ndf 33.97 / 44
p0 −209.5 ± 188.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 681.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.002912
Std Dev 0.8688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 5070 / 44
p0 126.6 ± 0.1333
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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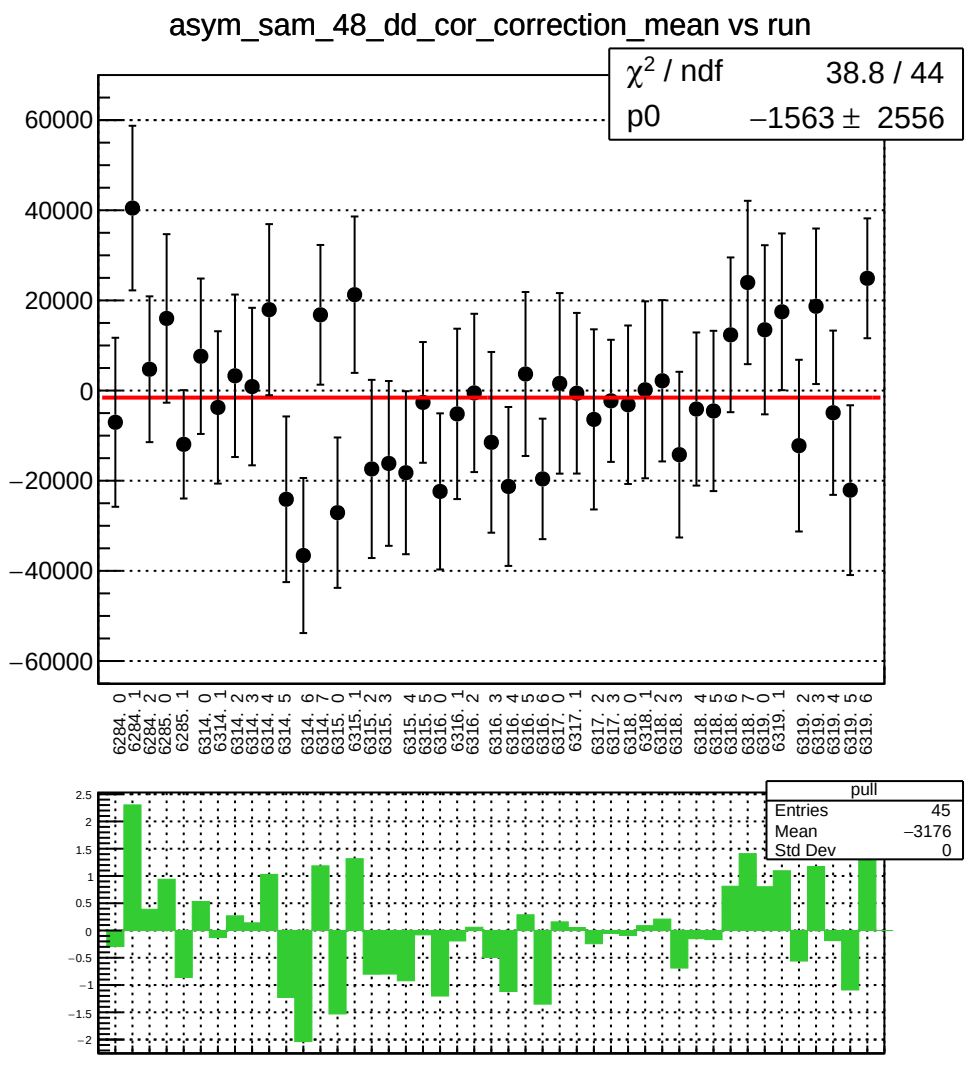
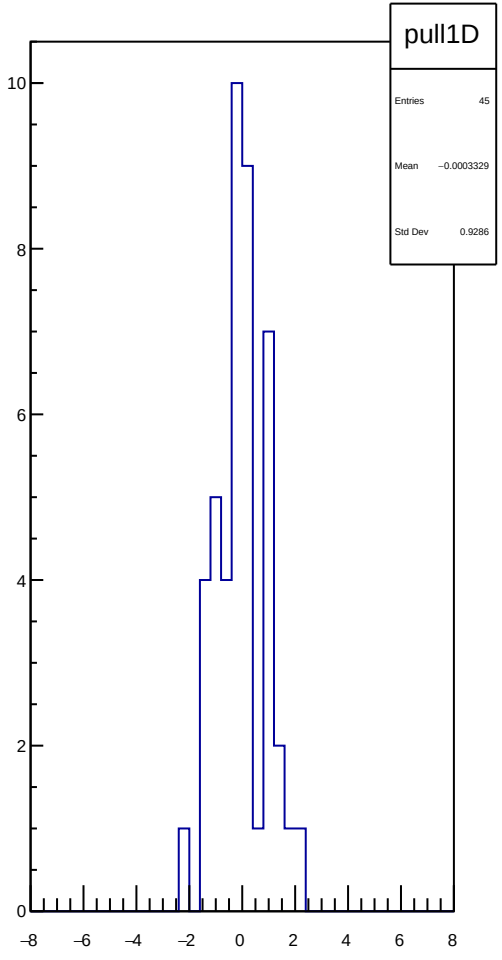
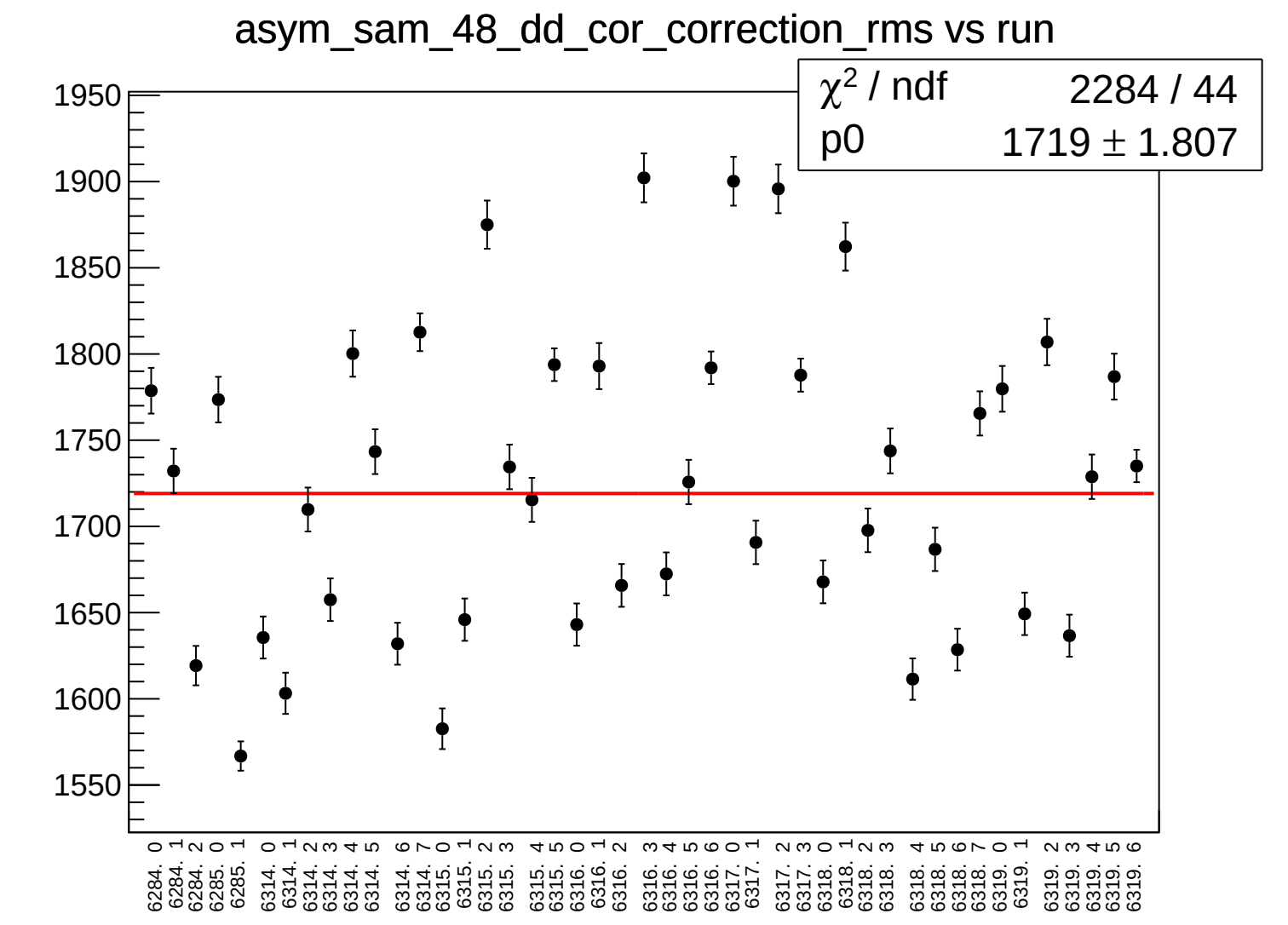
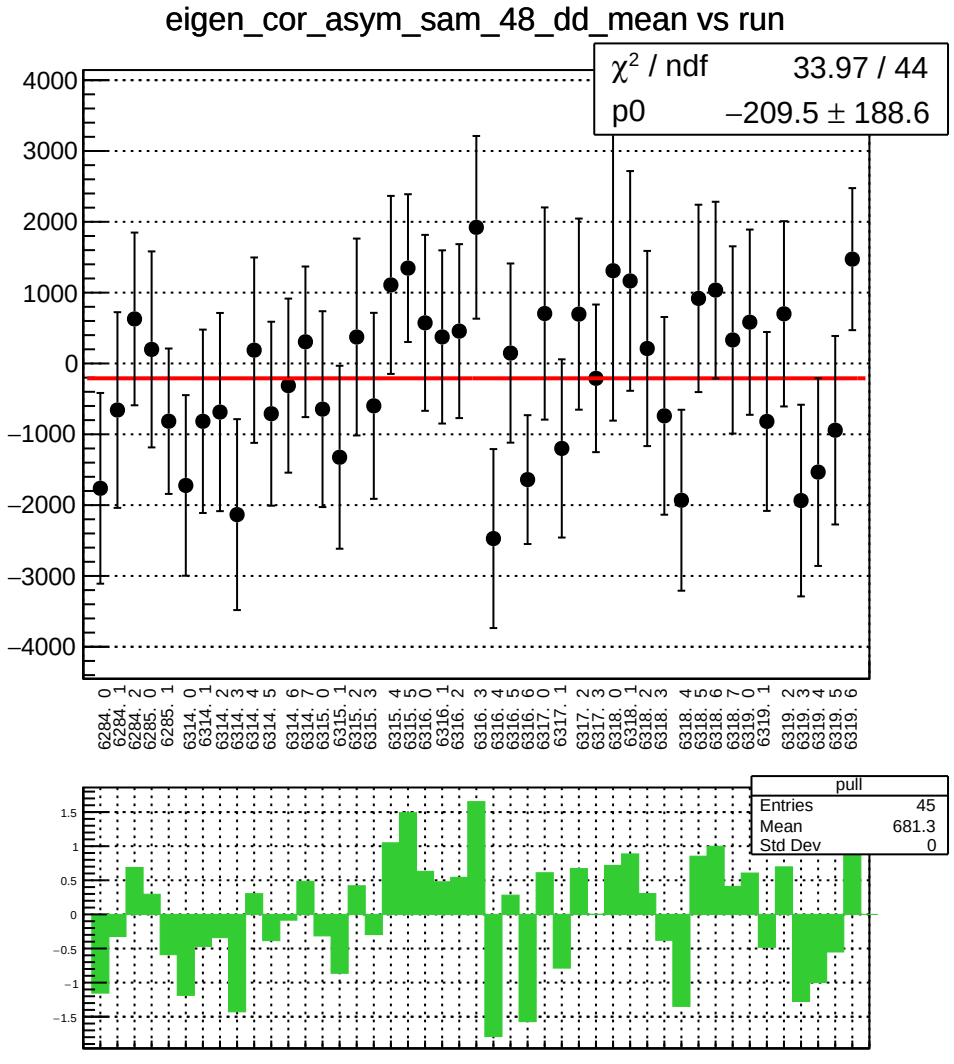
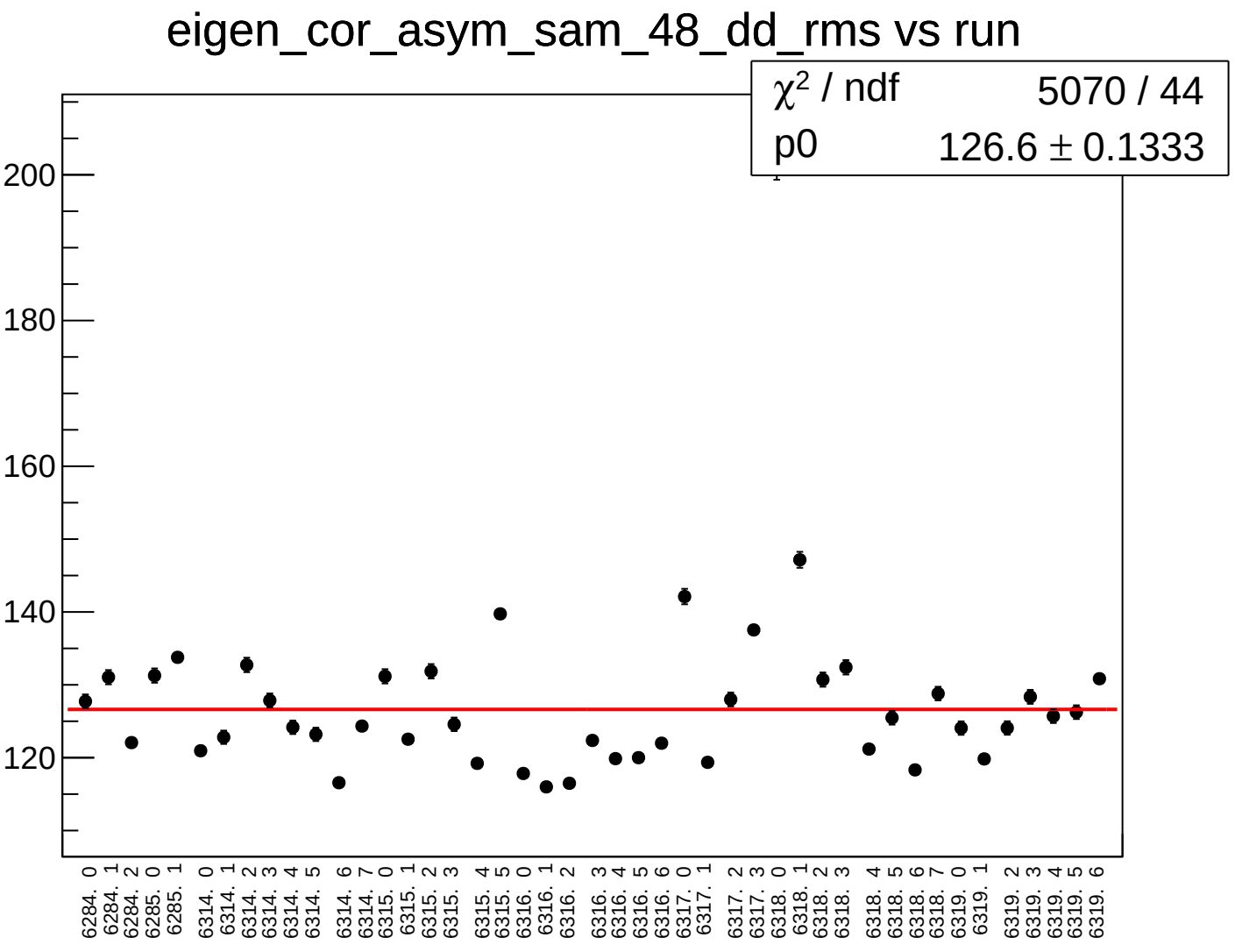
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

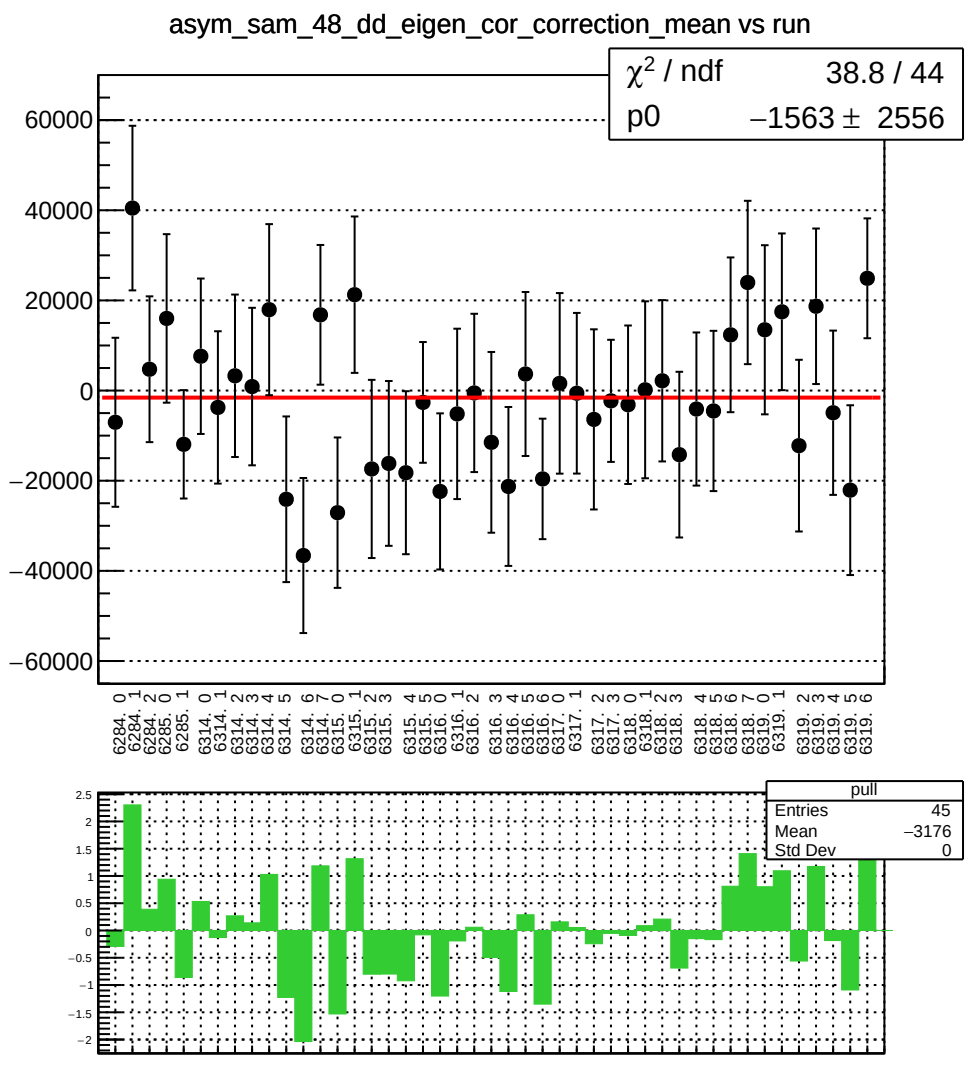

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 38.8 / 44
p0 −1563 ± 2556
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3176
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

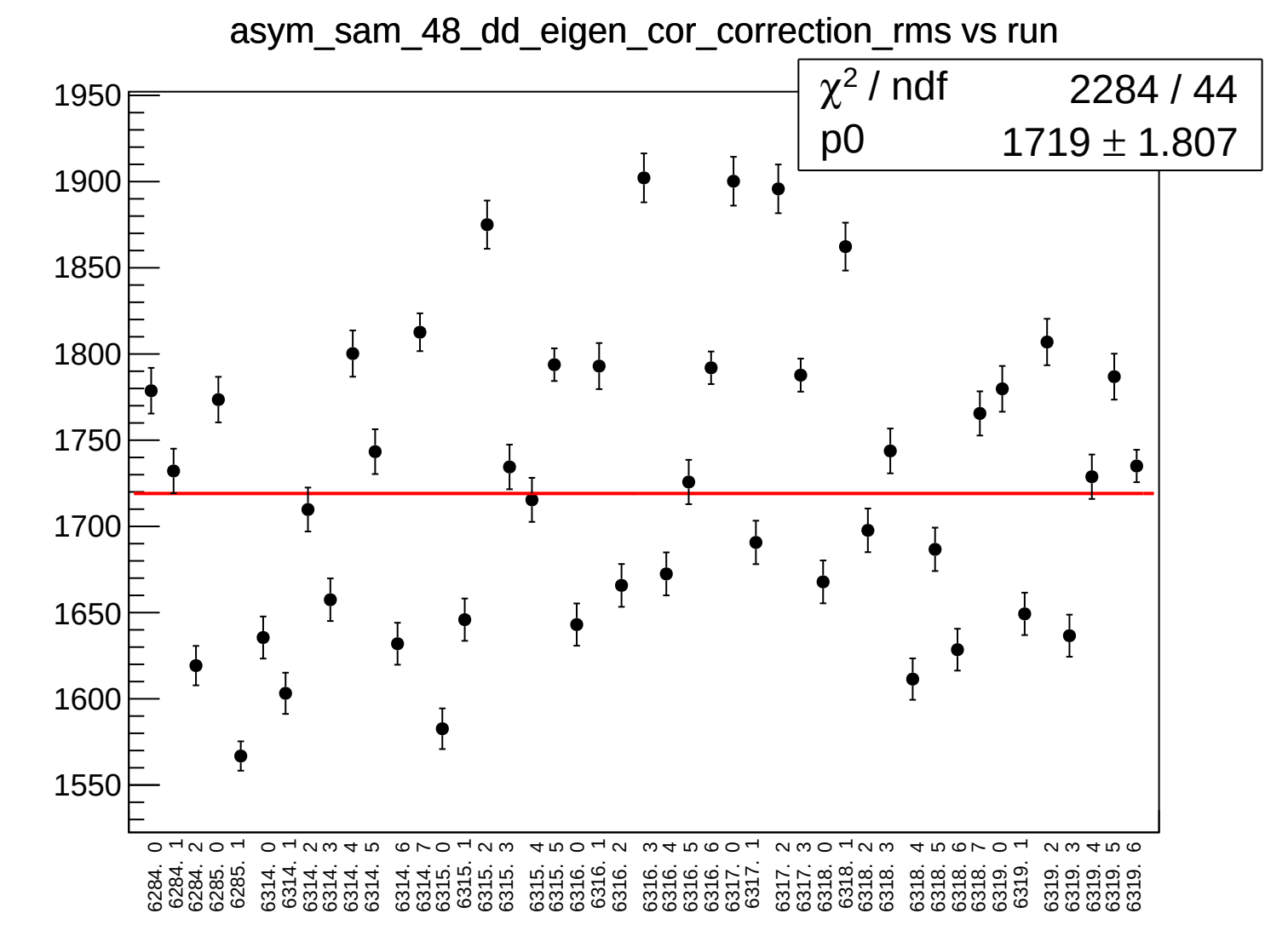

pull1D
Entries 45
Mean −0.0003329
Std Dev 0.9286
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

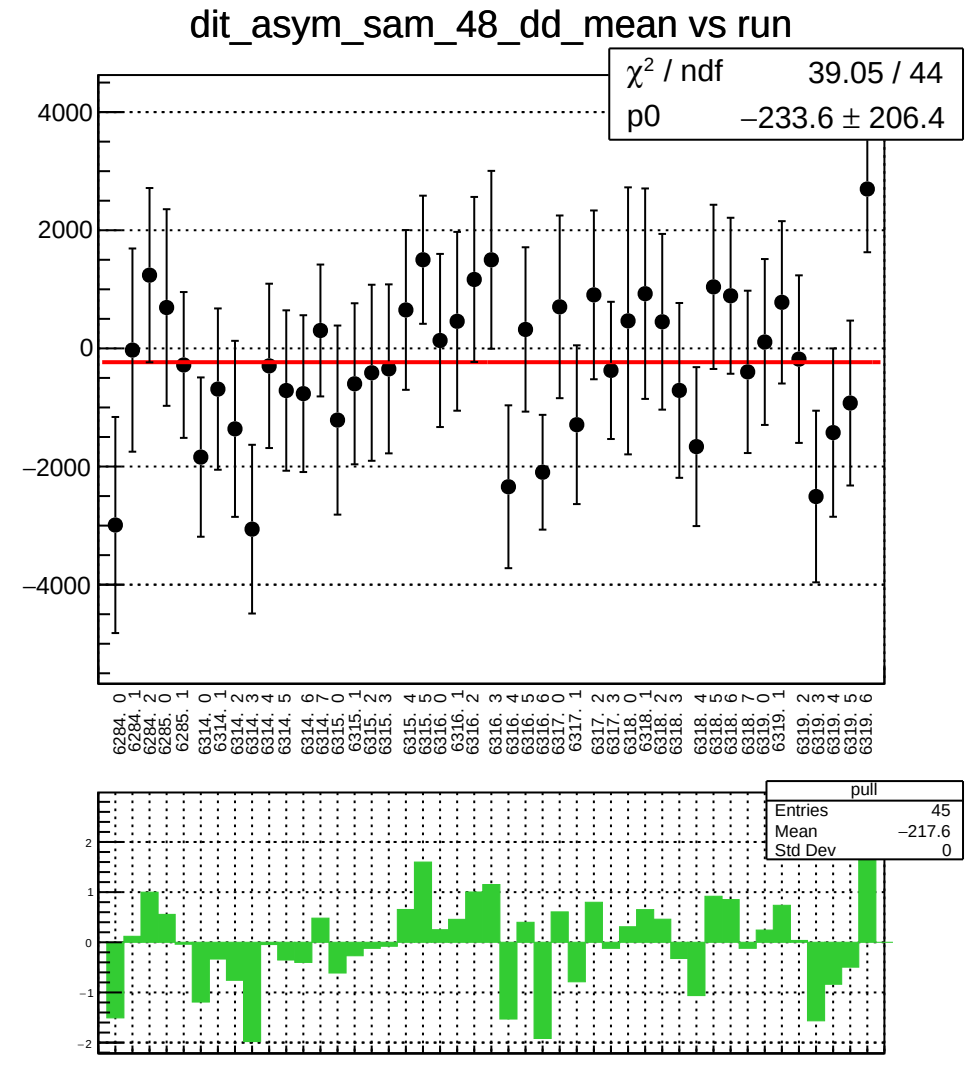

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2284 / 44
p0 1719 ± 1.807
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

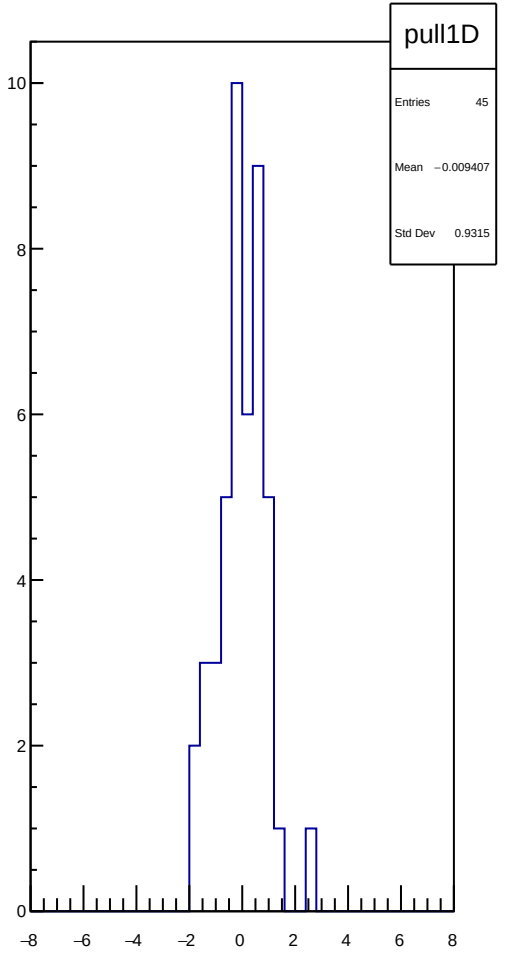

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 33.97 / 44
p0 −209.5 ± 188.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 681.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.002912
Std Dev 0.8688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

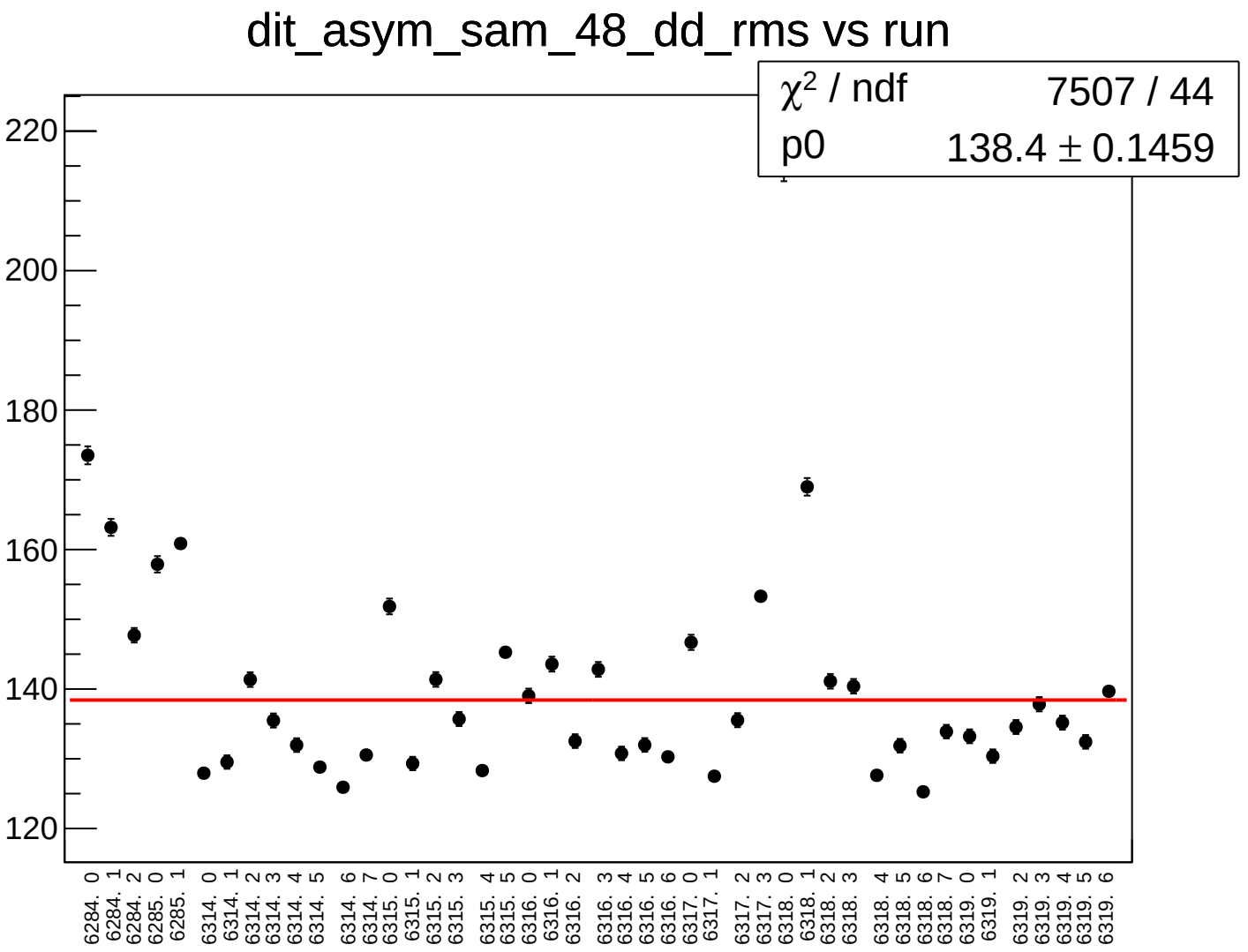

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 5070 / 44
p0 126.6 ± 0.1333
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.8 / 44
p0 −1563 ± 2556
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −3176
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0003329
Std Dev 0.9286
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2284 / 44
p0 1719 ± 1.807
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_48_dd_mean vs run
χ² / ndf 39.05 / 44
p0 −233.6 ± 206.4
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −217.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009407
Std Dev 0.9315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_dd_rms vs run
χ² / ndf 7507 / 44
p0 138.4 ± 0.1459
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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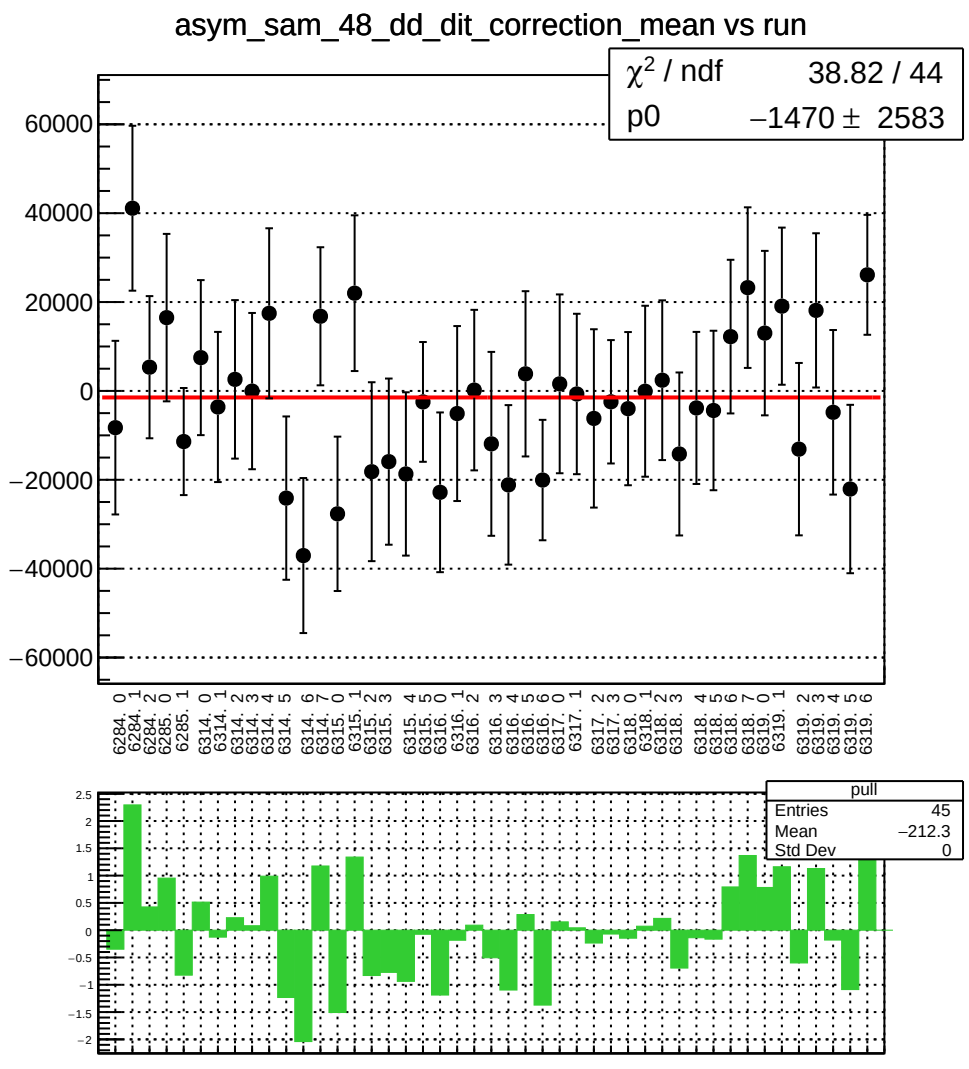
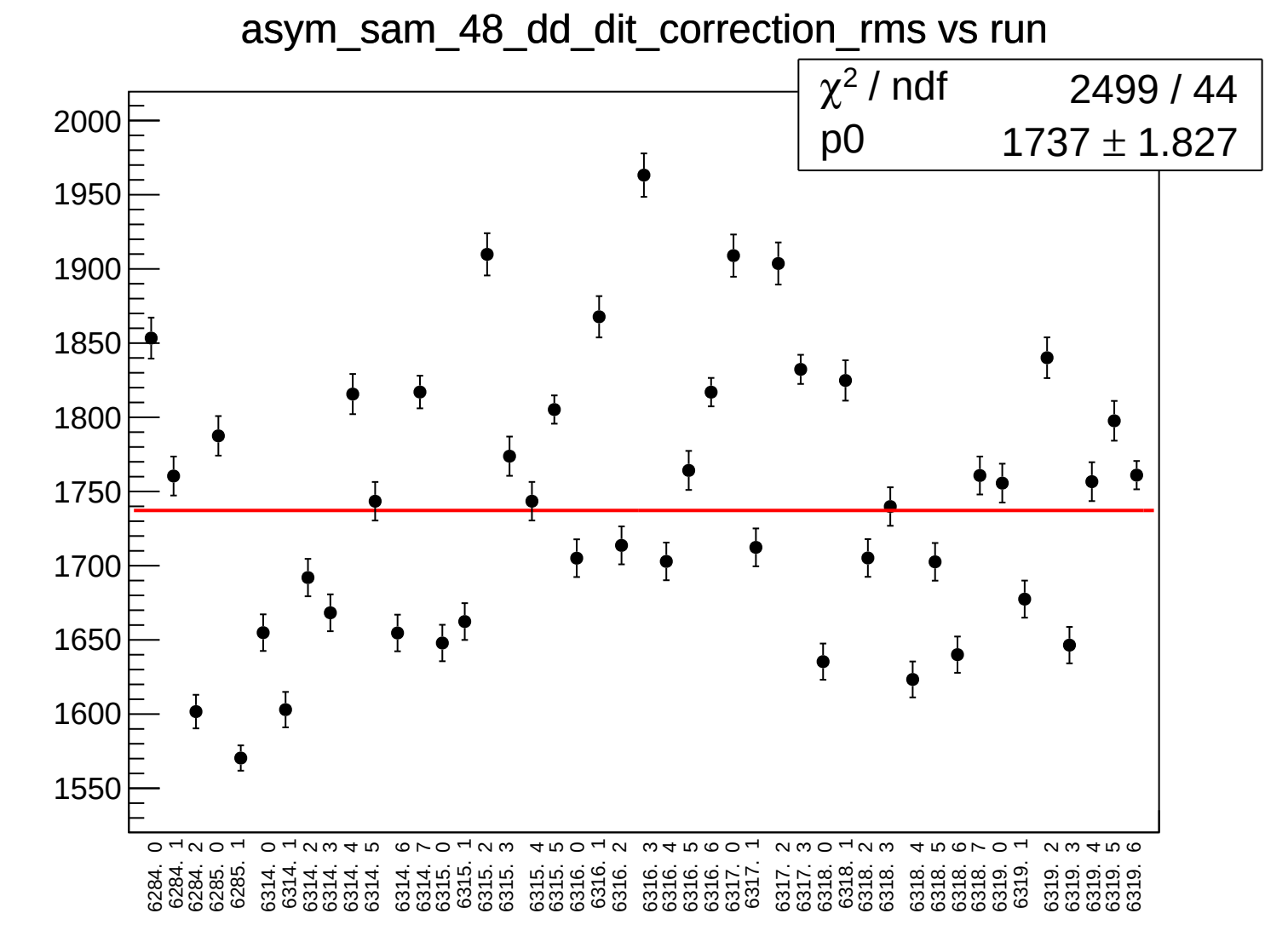
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 38.82 / 44
p0 −1470 ± 2583
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −212.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.004609
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2499 / 44
p0 1737 ± 1.827
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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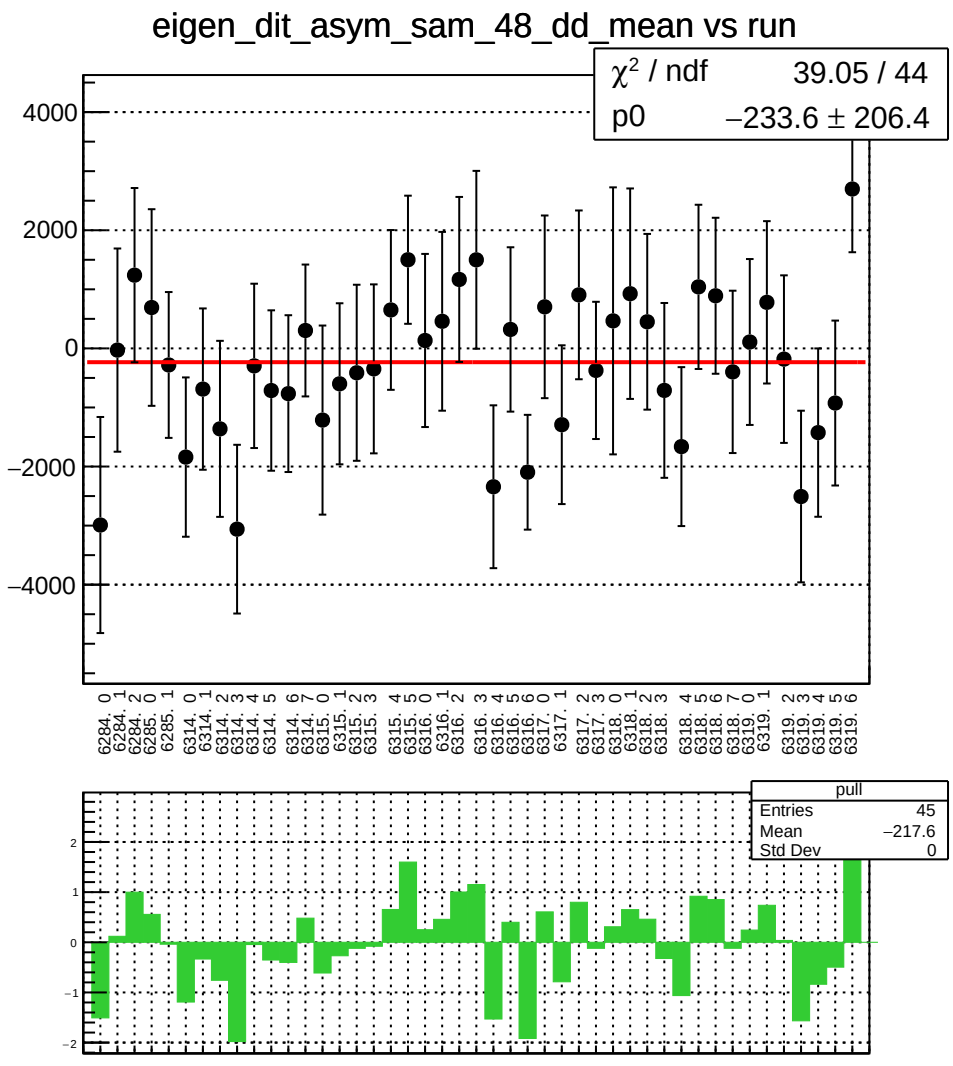
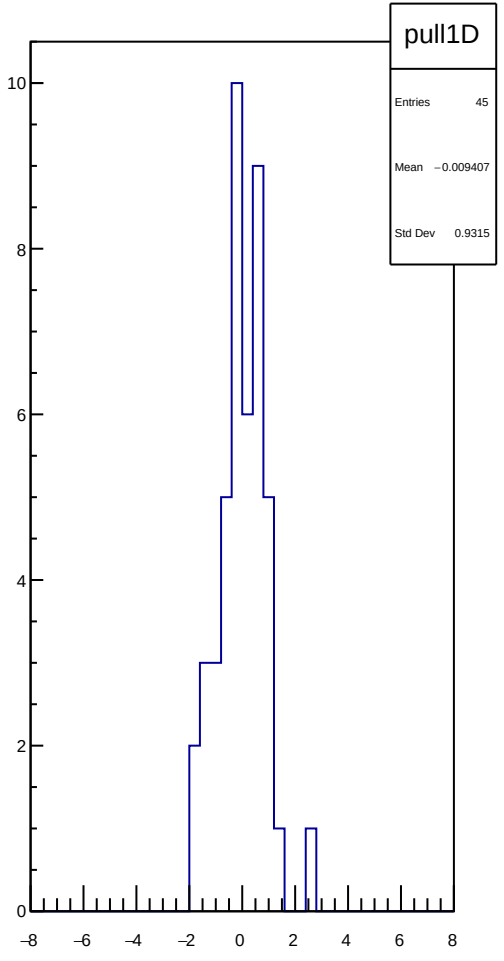
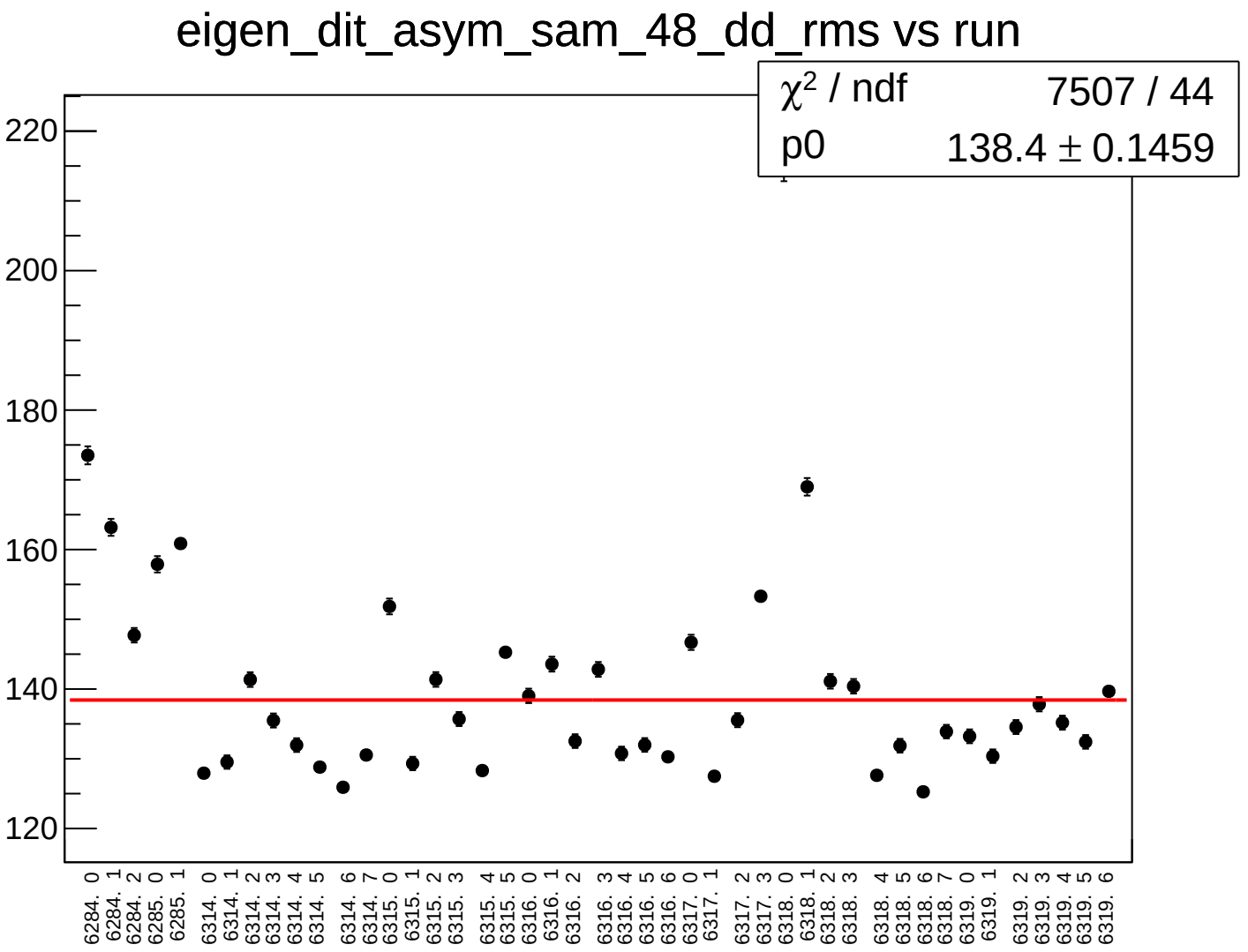
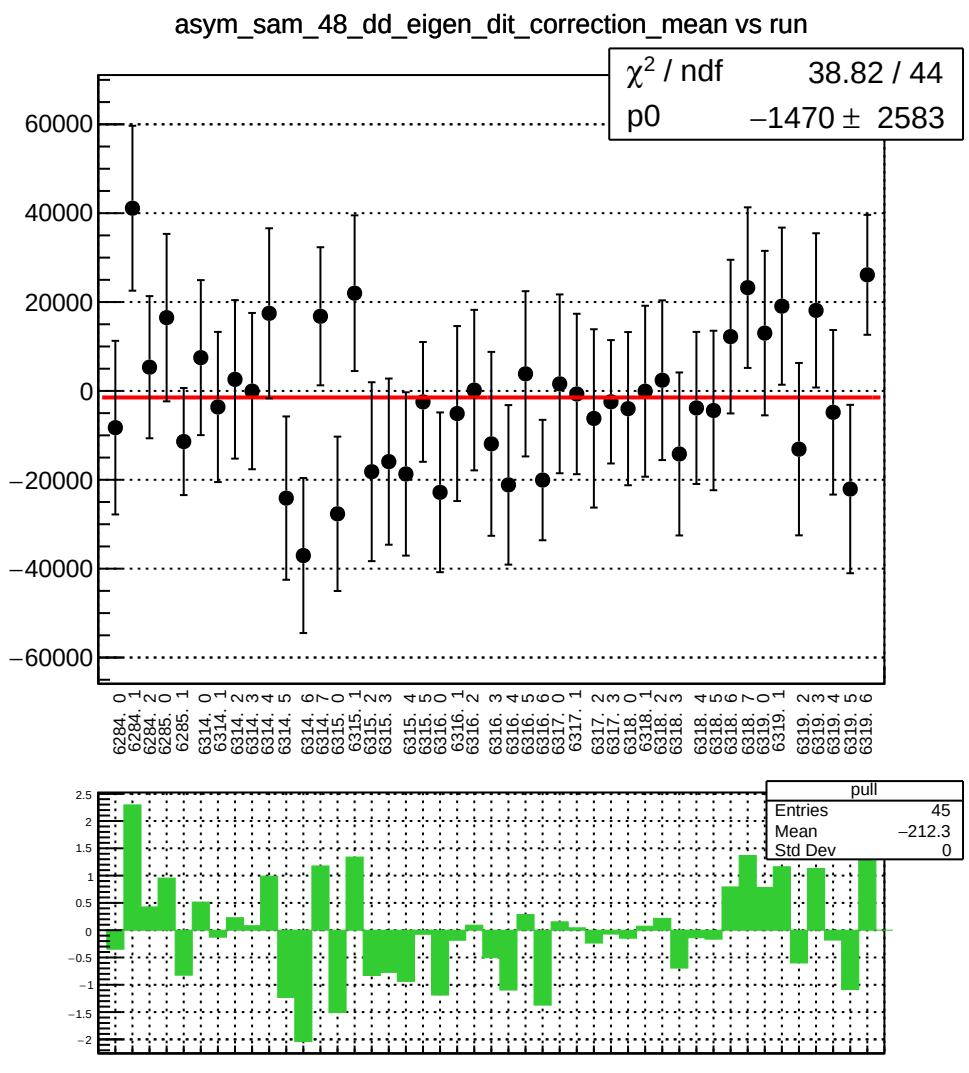
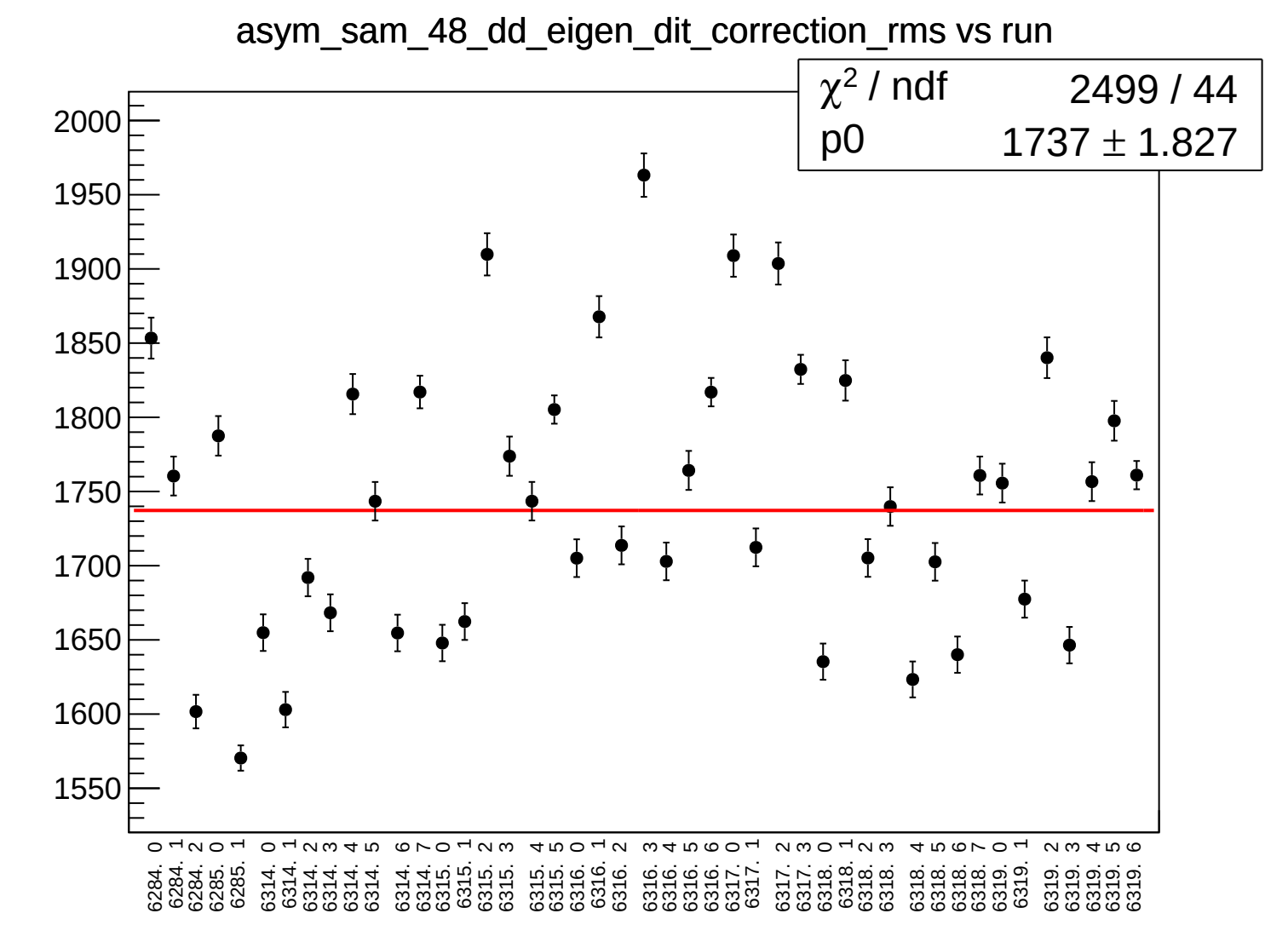
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

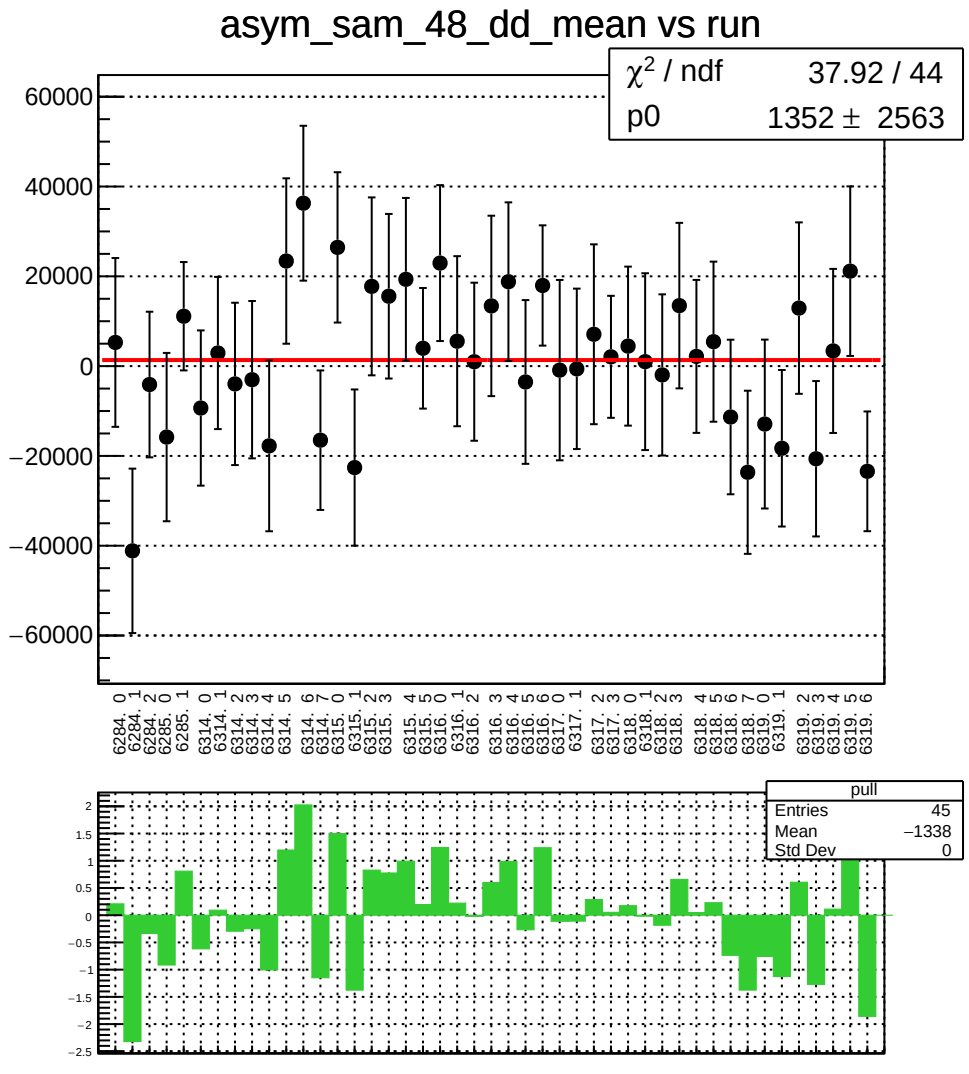

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 39.05 / 44
p0 −233.6 ± 206.4
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −217.6
Std Dev 0
2
1
0
−1
−2

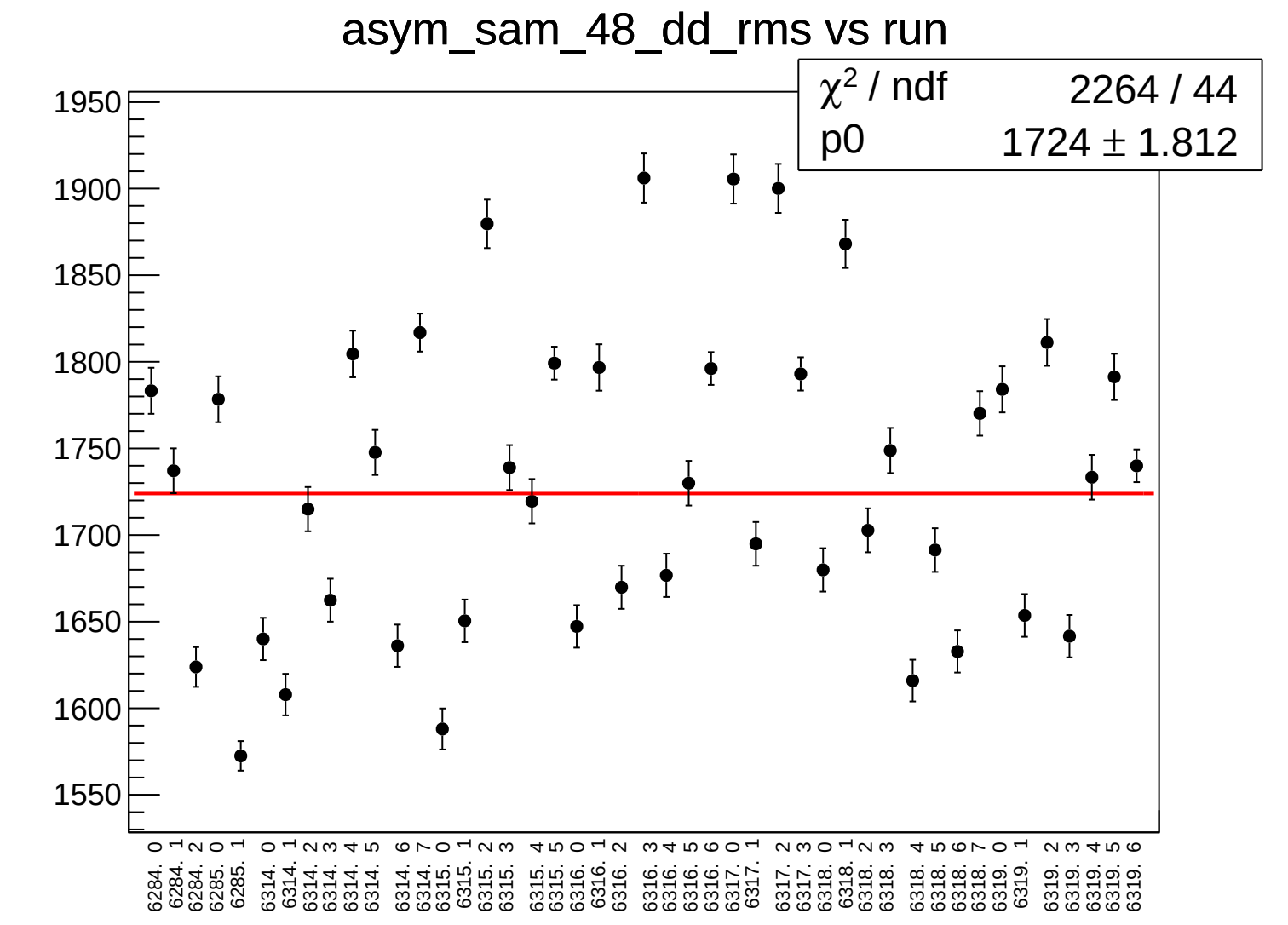

pull1D
Entries 45
Mean −0.009407
Std Dev 0.9315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

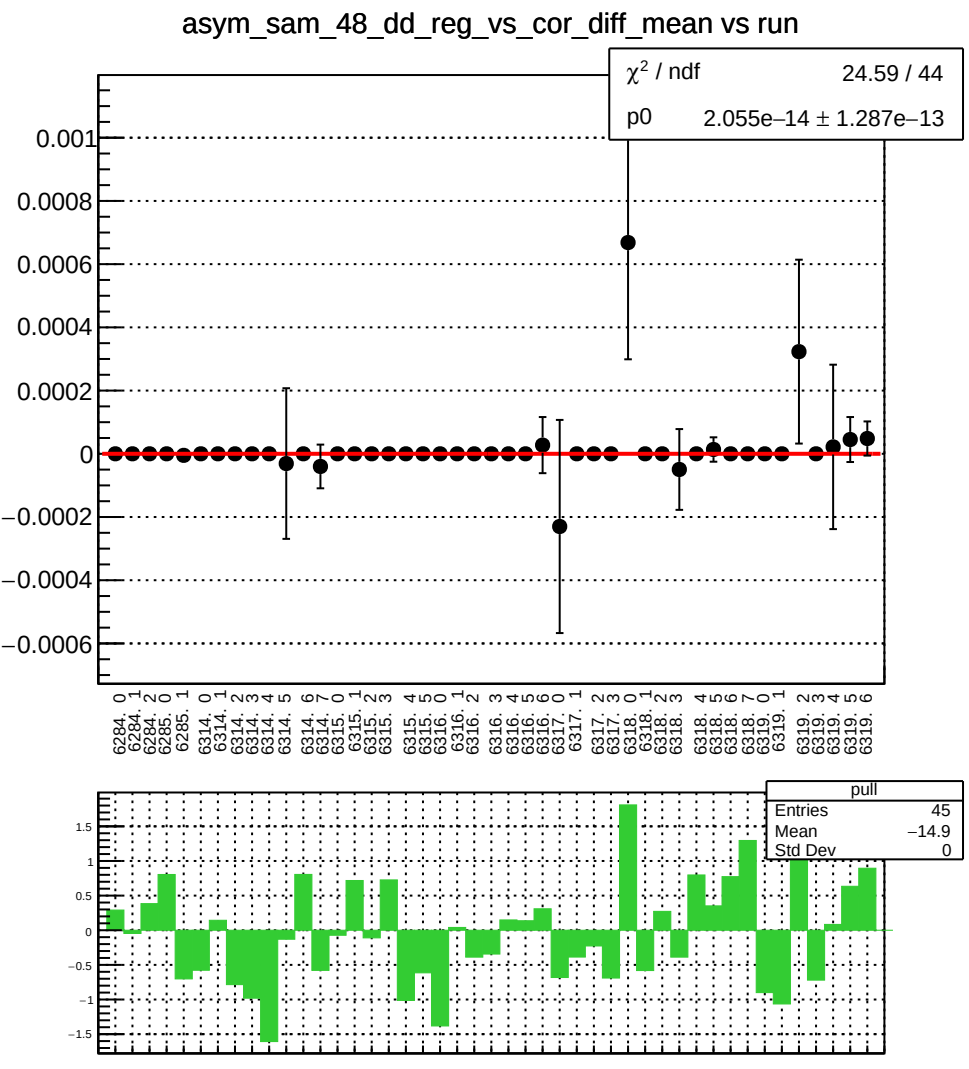

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 7507 / 44
p0 138.4 ± 0.1459
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

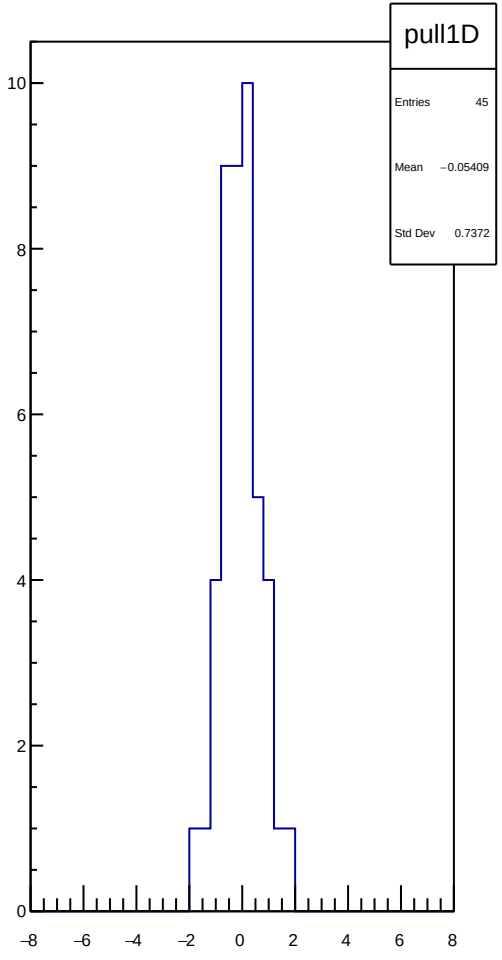

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.82 / 44
p0 −1470 ± 2583
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −212.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.004609
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

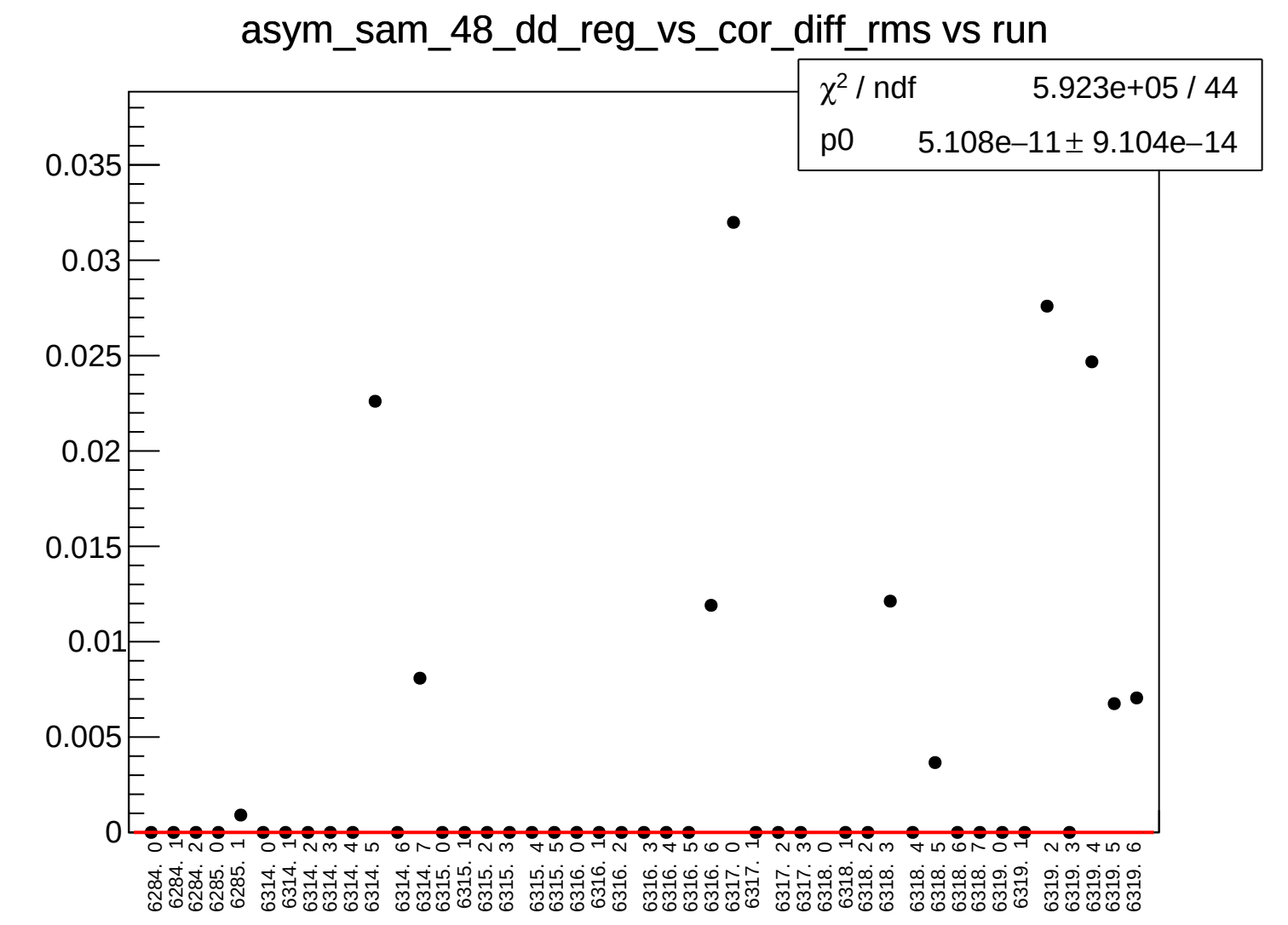

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2499 / 44
p0 1737 ± 1.827
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

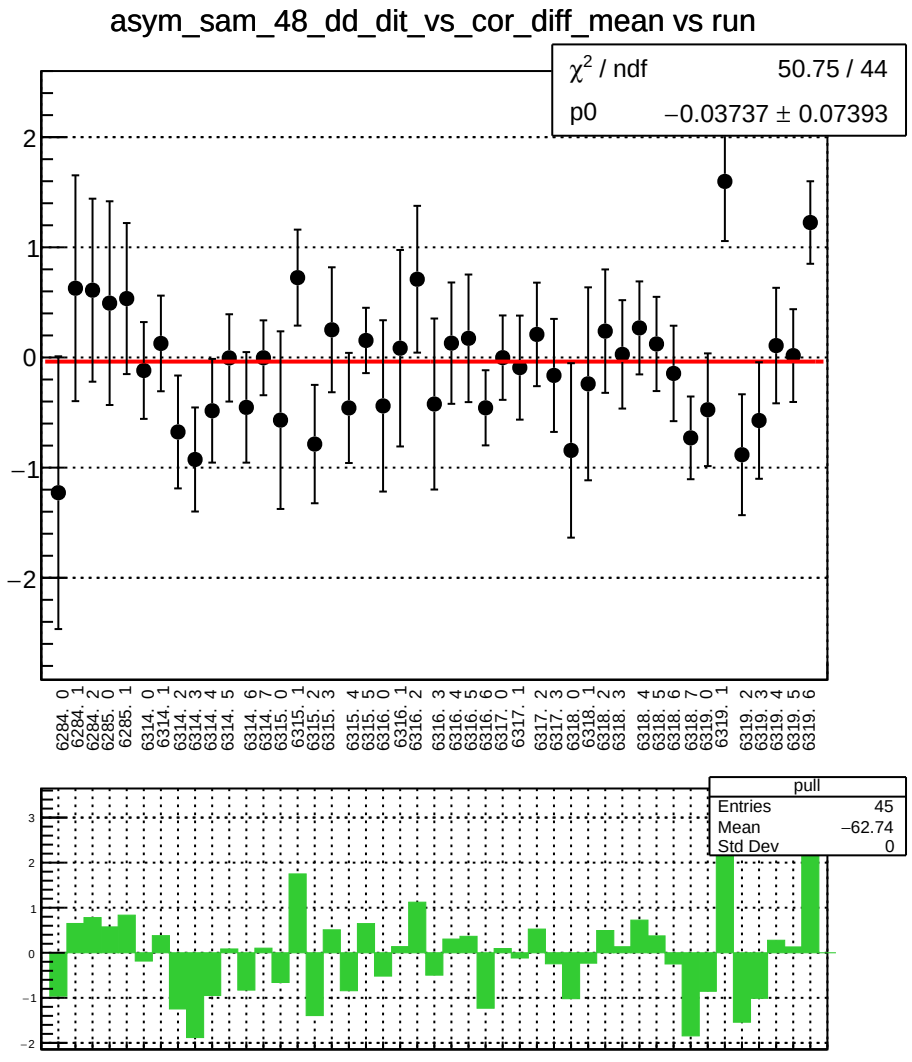

asym_sam_48_dd_mean vs run
χ² / ndf 37.92 / 44
p0 1352 ± 2563
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −1338
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.000669
Std Dev 0.918
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

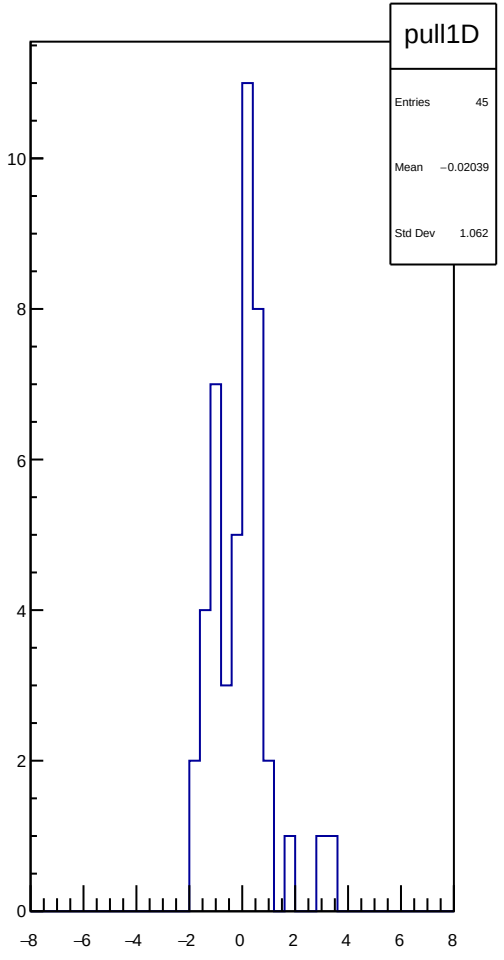

asym_sam_48_dd_rms vs run
χ² / ndf 2264 / 44
p0 1724 ± 1.812
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

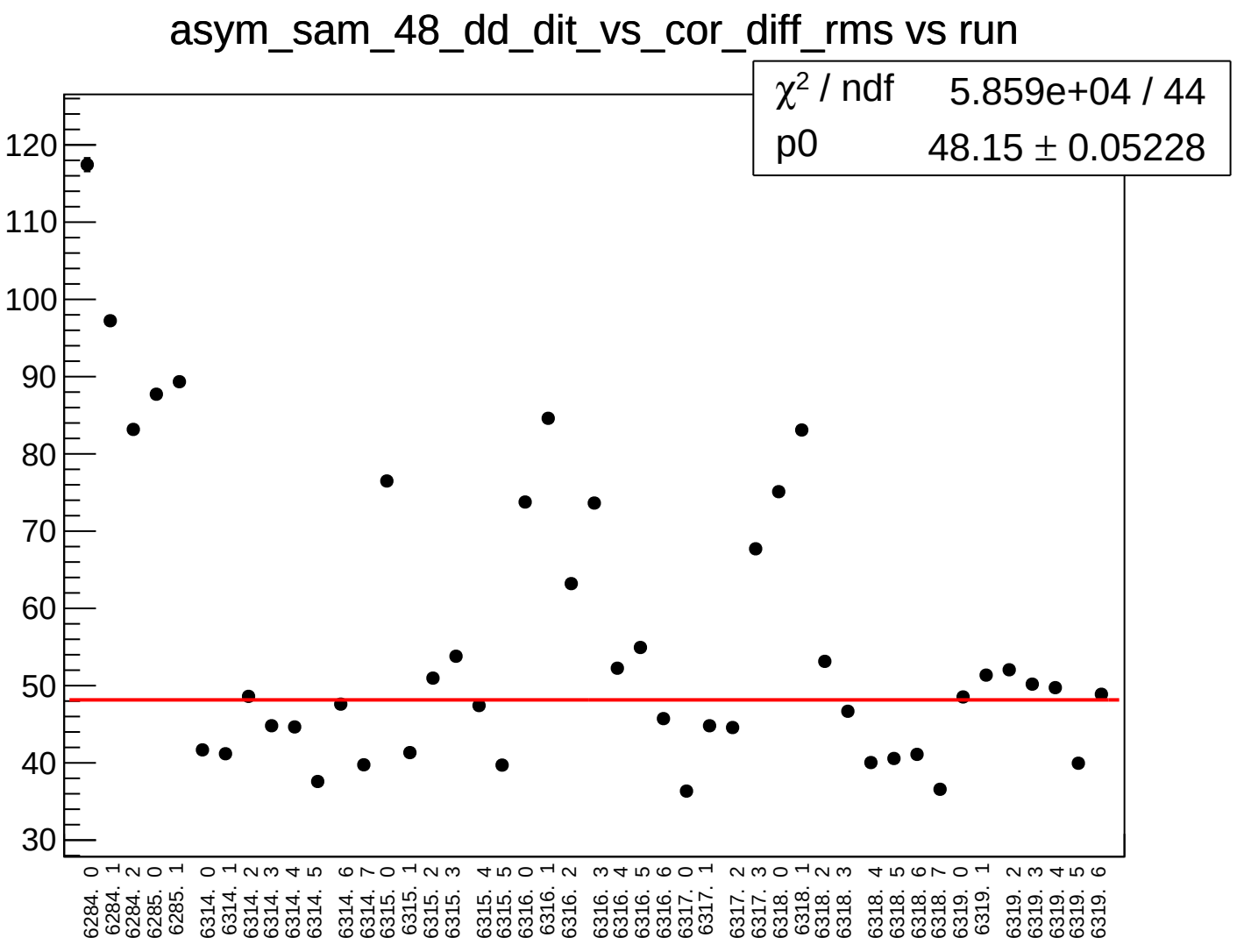

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.59 / 44
p0 2.055e−14 ± 1.287e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −14.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

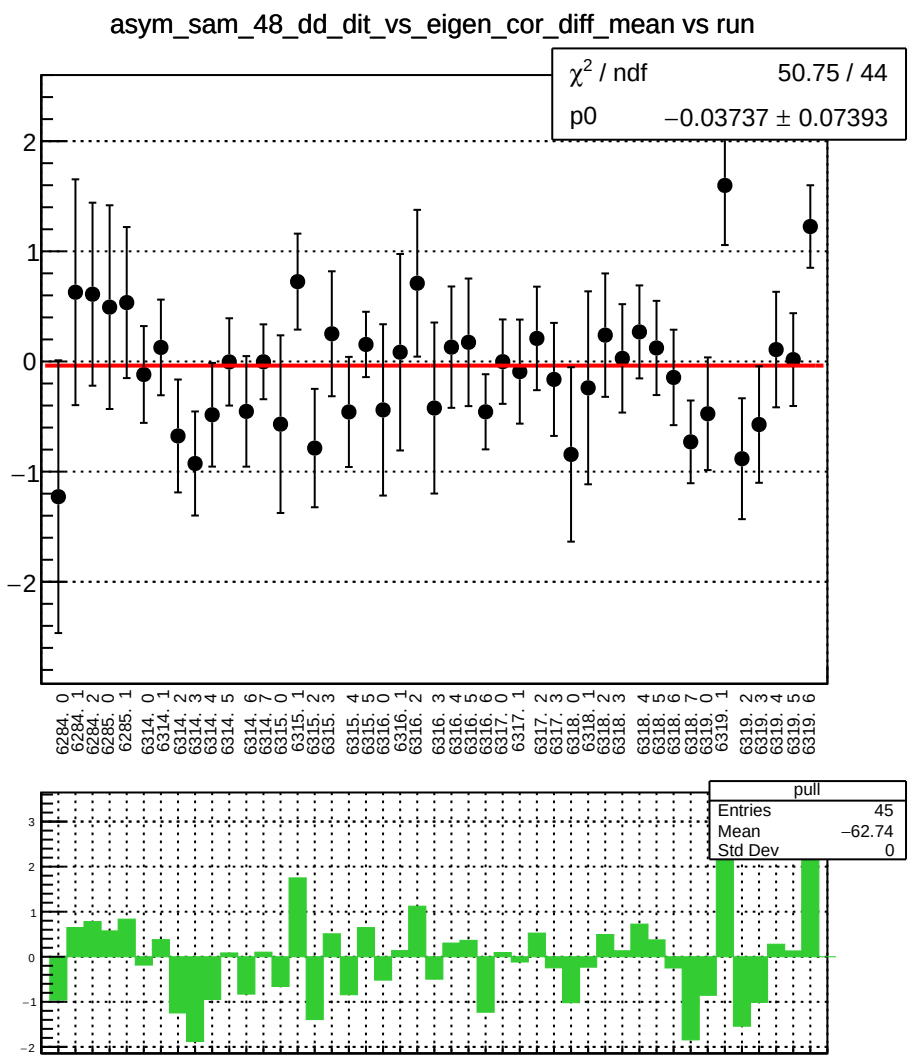

pull1D
Entries 45
Mean −0.05409
Std Dev 0.7372
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

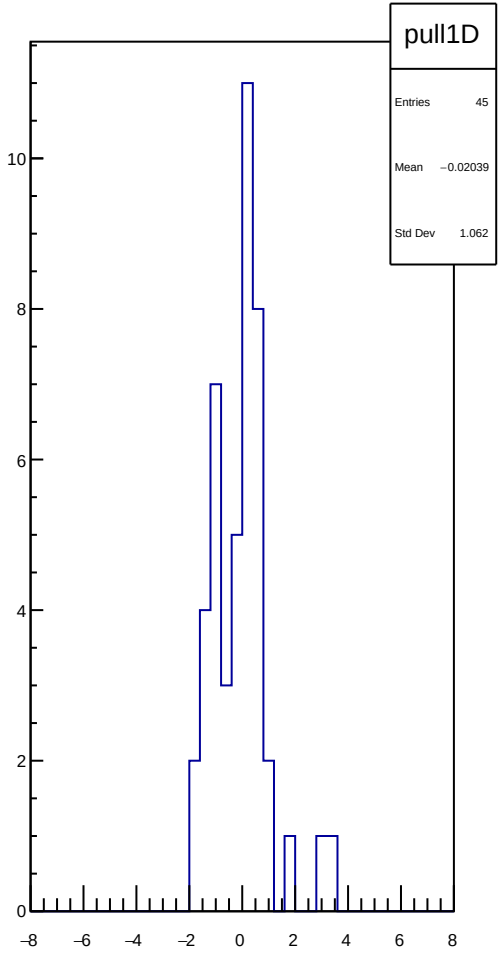

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.923e+05 / 44
p0 5.108e−11 ± 9.104e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

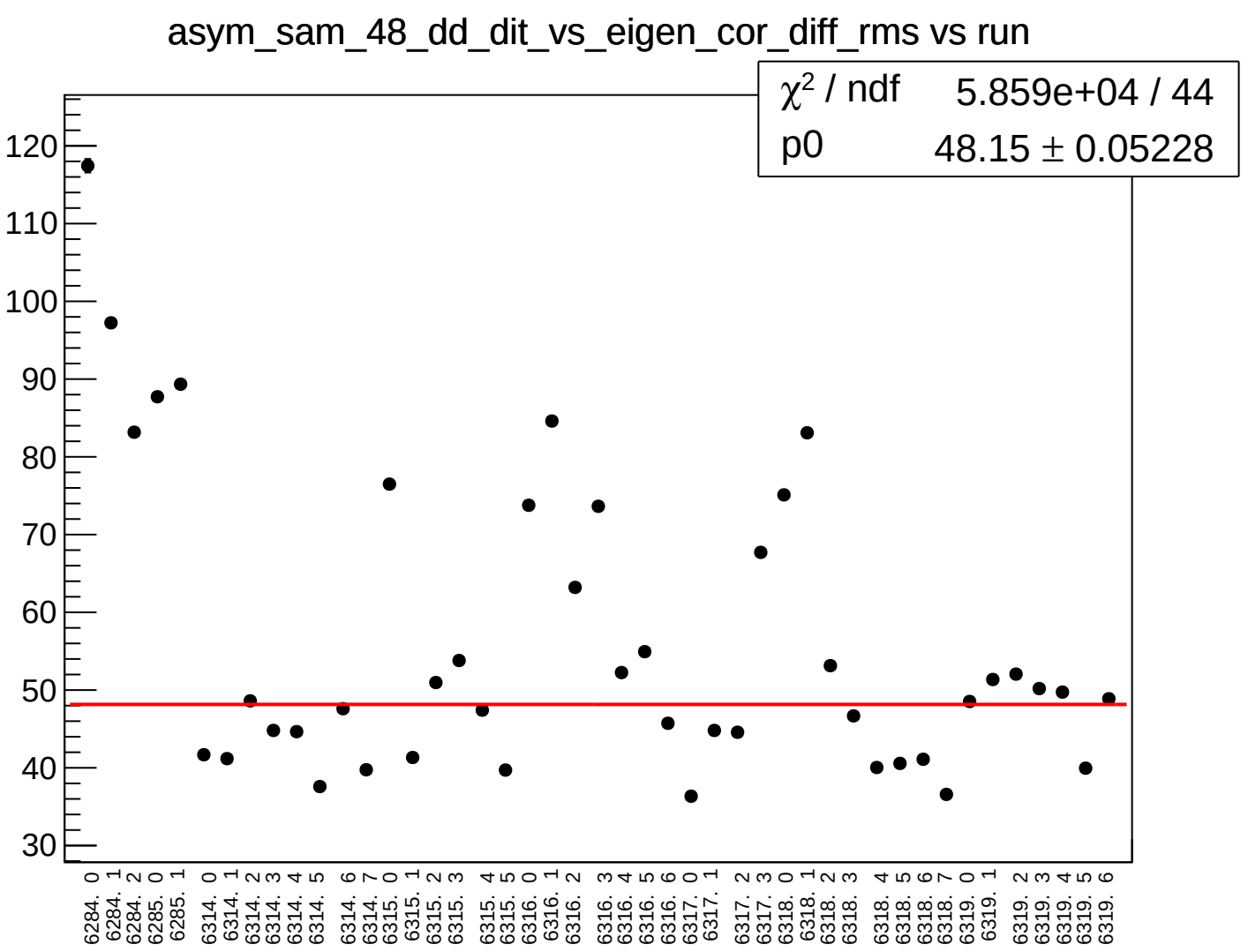

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.75 / 44
p0 −0.03737 ± 0.07393
pull
Entries 45
Mean −62.74
Std Dev 0

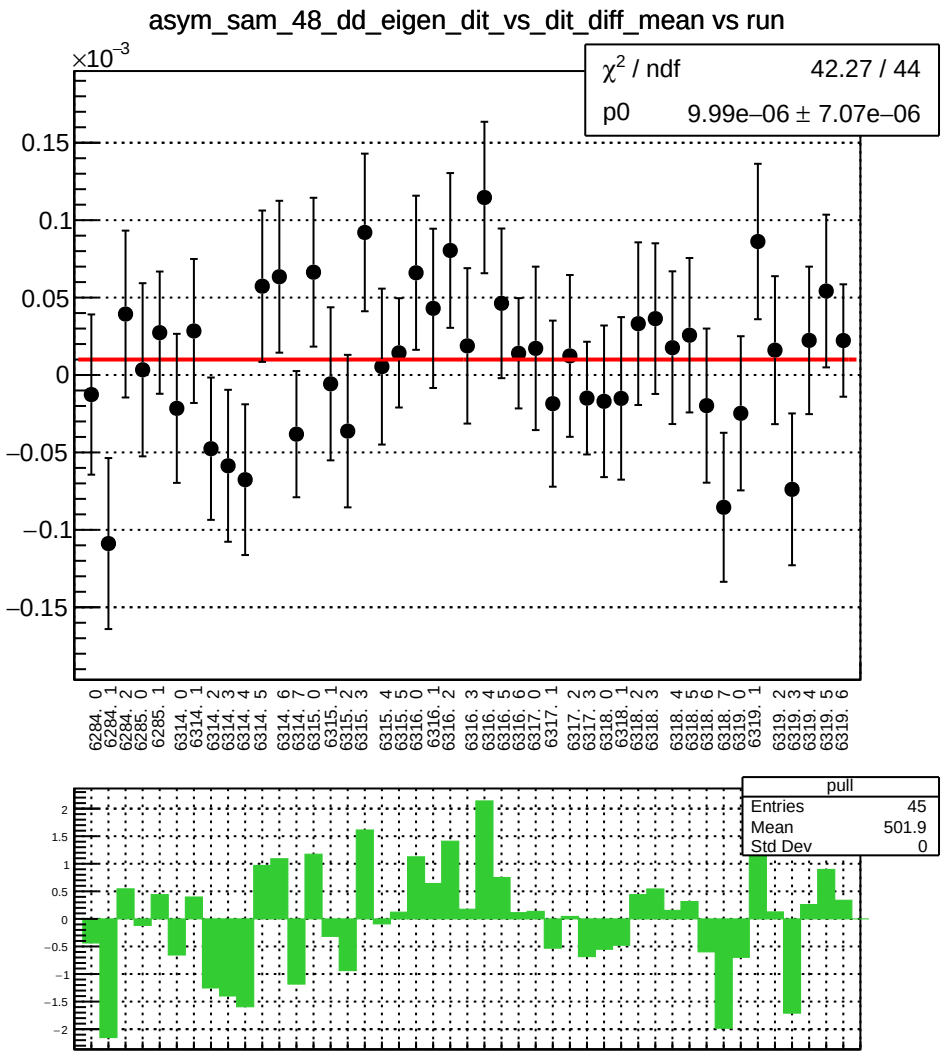

pull1D
Entries 45
Mean −0.02039
Std Dev 1.062

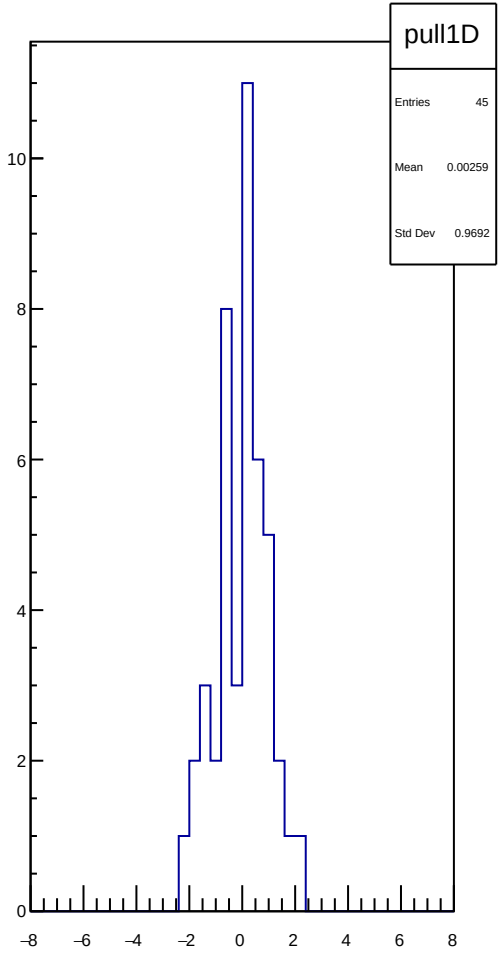

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.859e+04 / 44
p0 48.15 ± 0.05228
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

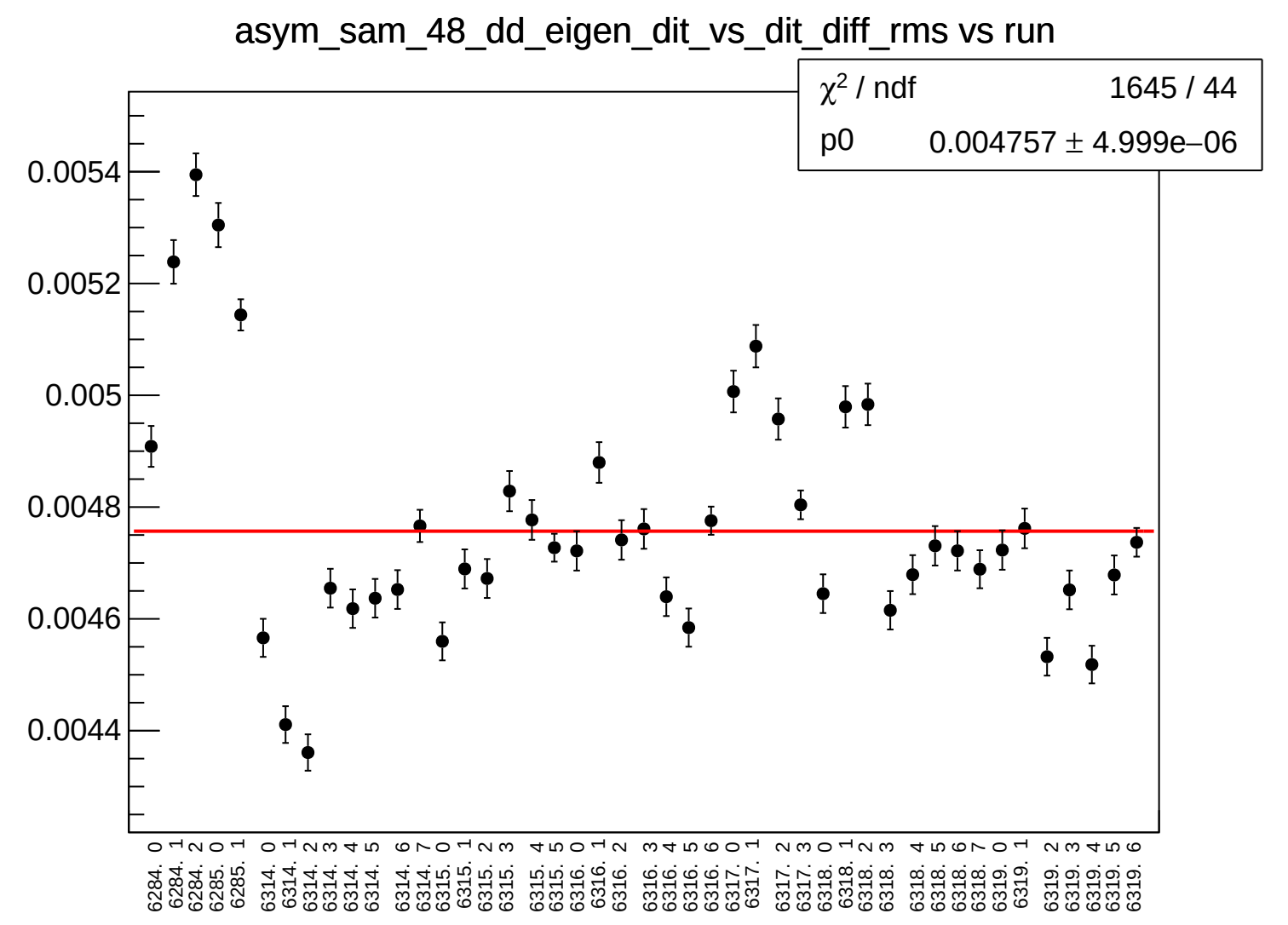

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.75 / 44
p0 −0.03737 ± 0.07393
pull
Entries 45
Mean −62.74
Std Dev 0

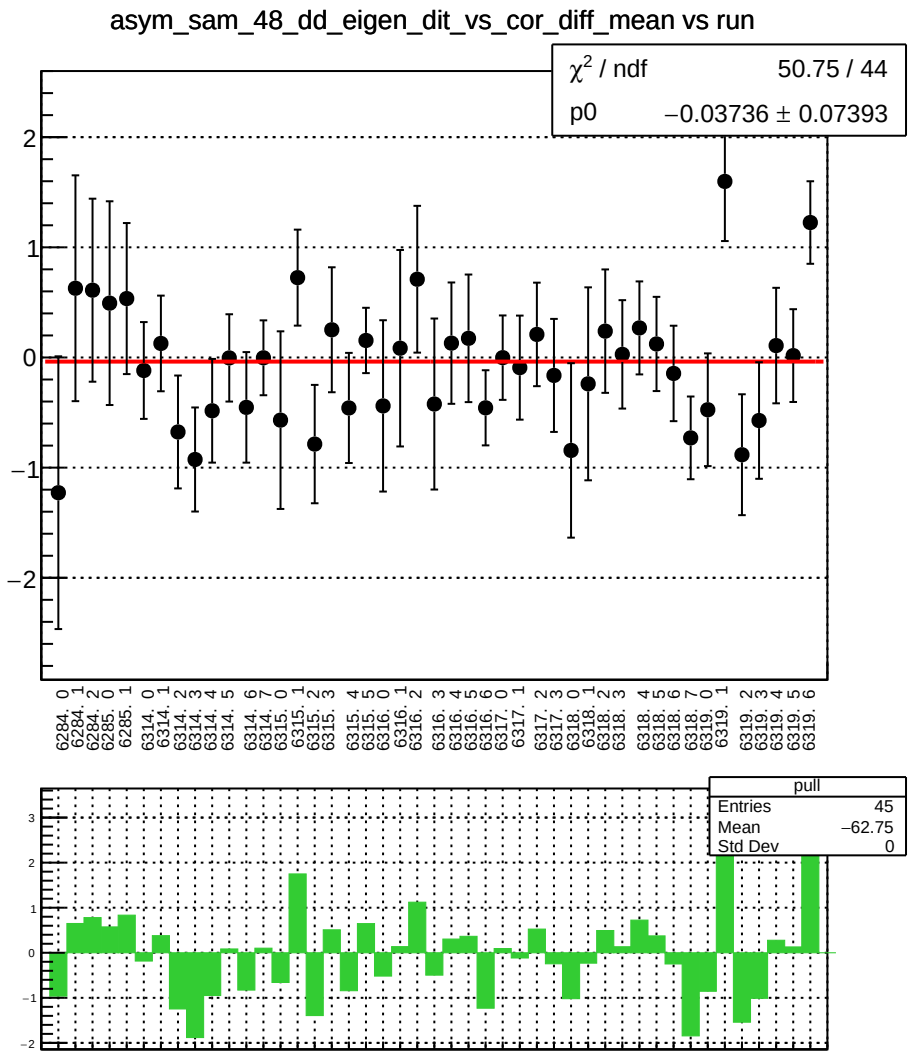

pull1D
Entries 45
Mean −0.02039
Std Dev 1.062

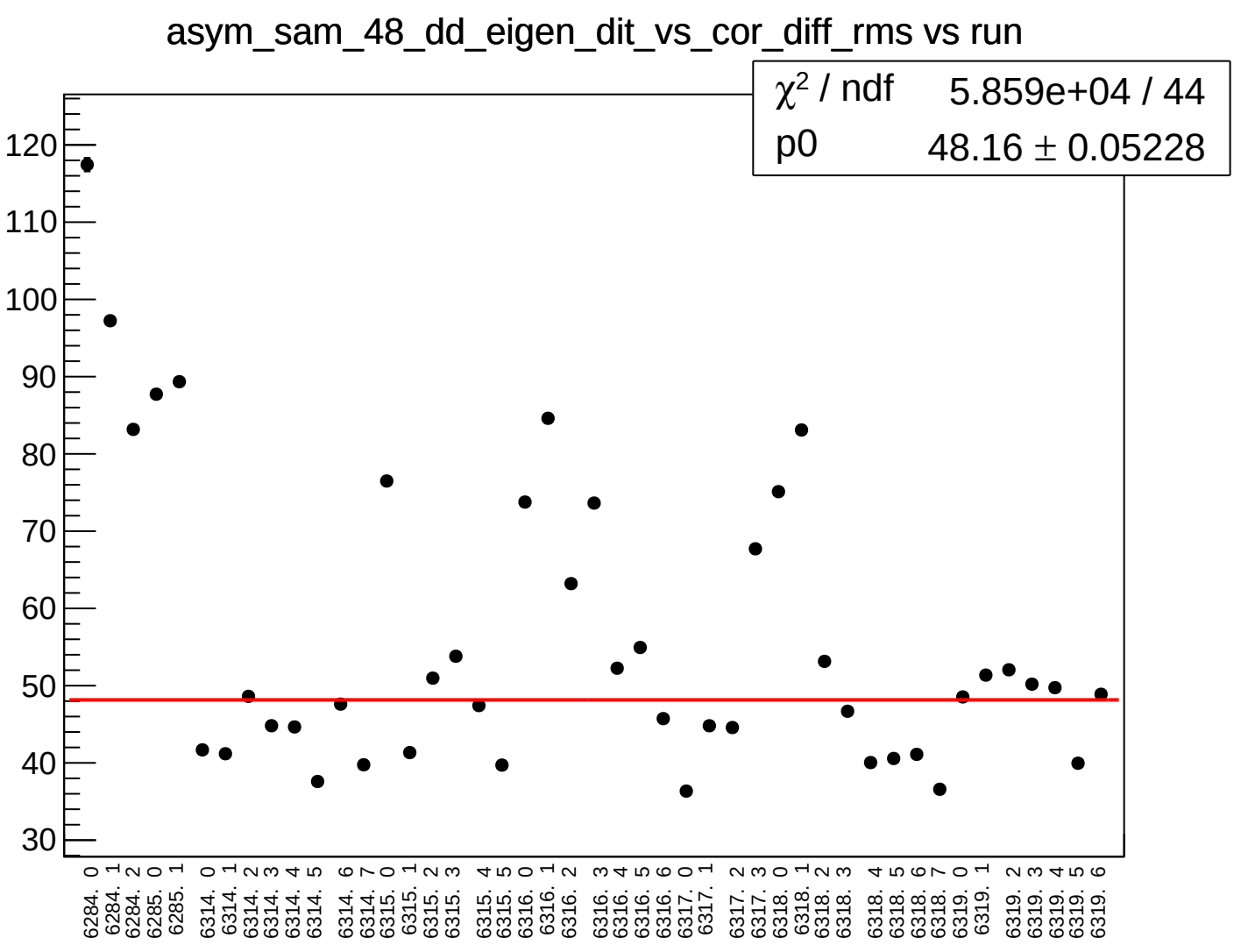

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.859e+04 / 44
p0 48.15 ± 0.05228
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

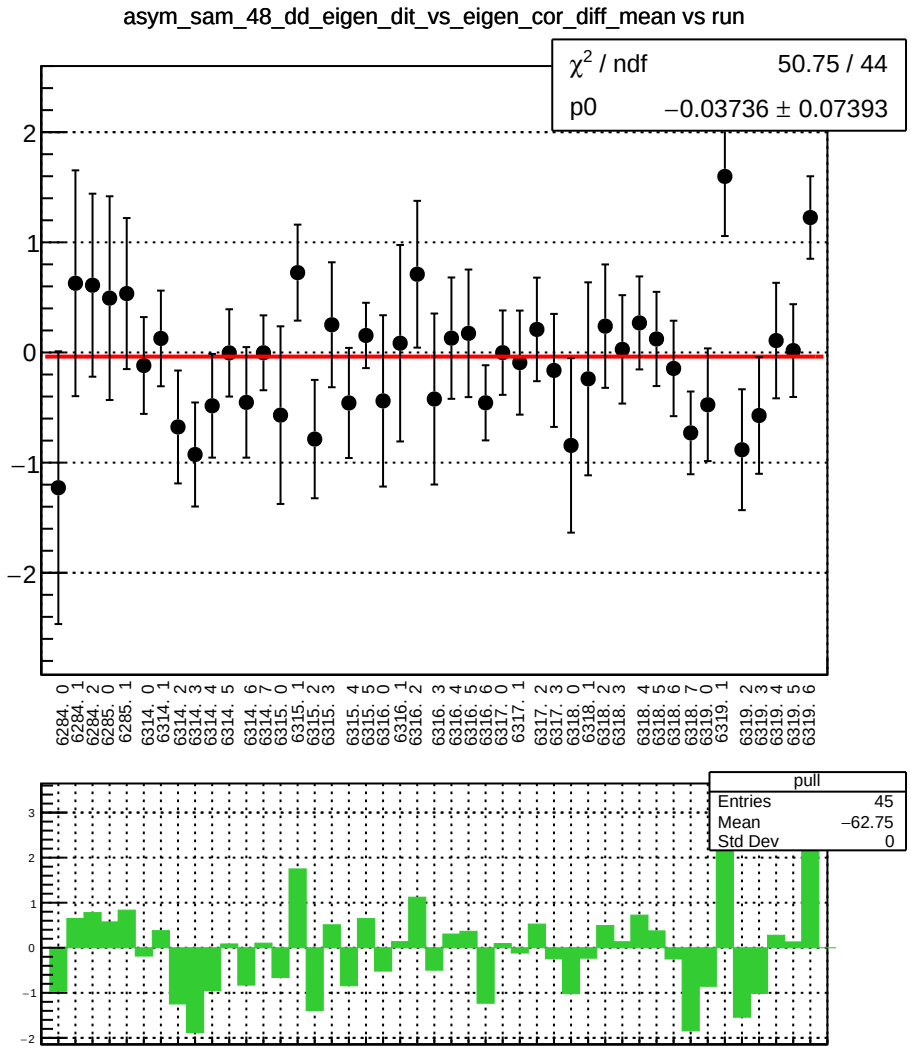

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.27 / 44
p0 9.99e–06 ± 7.07e–06
0.15
0.1
0.05
0
–0.05
–0.1
–0.15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 501.9
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2

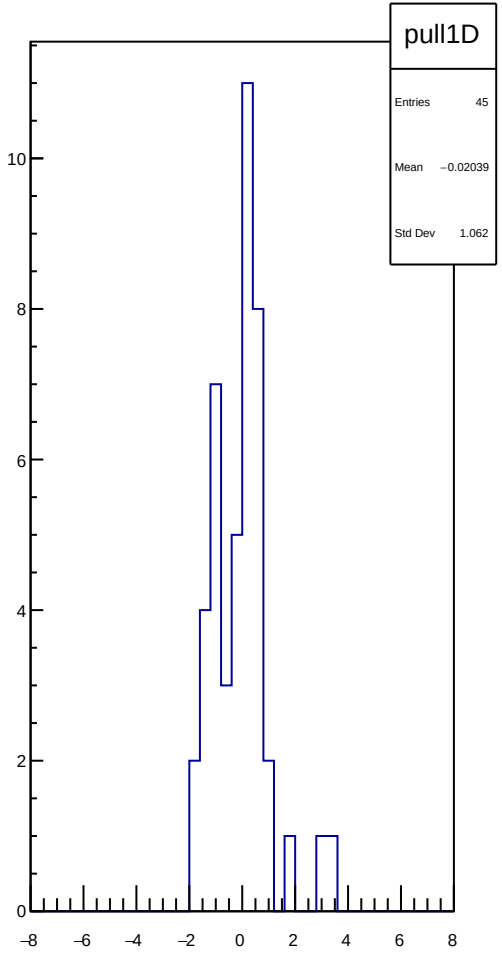

pull1D
Entries 45
Mean 0.00259
Std Dev 0.9692
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

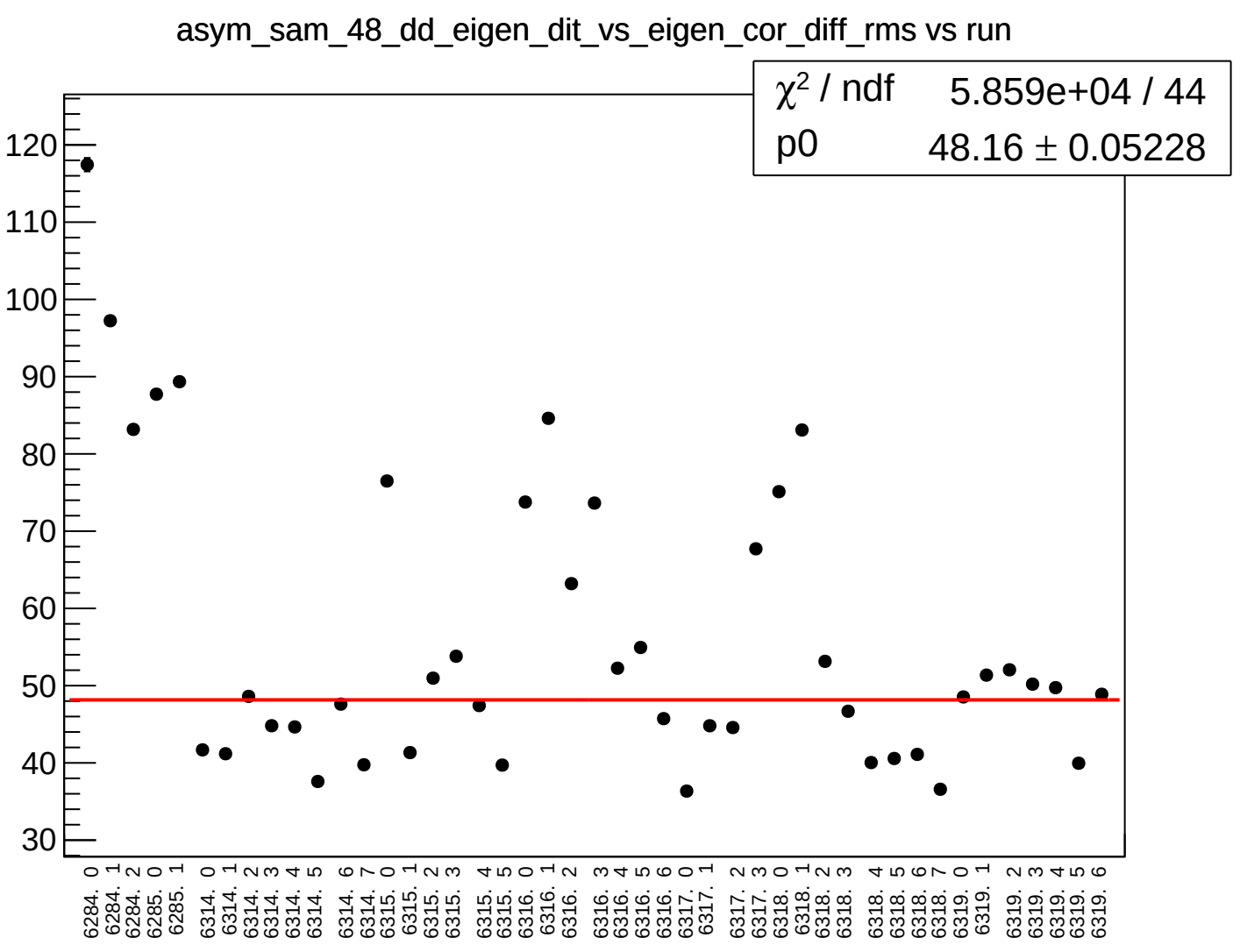

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1645 / 44
p0 0.004757 ± 4.999e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

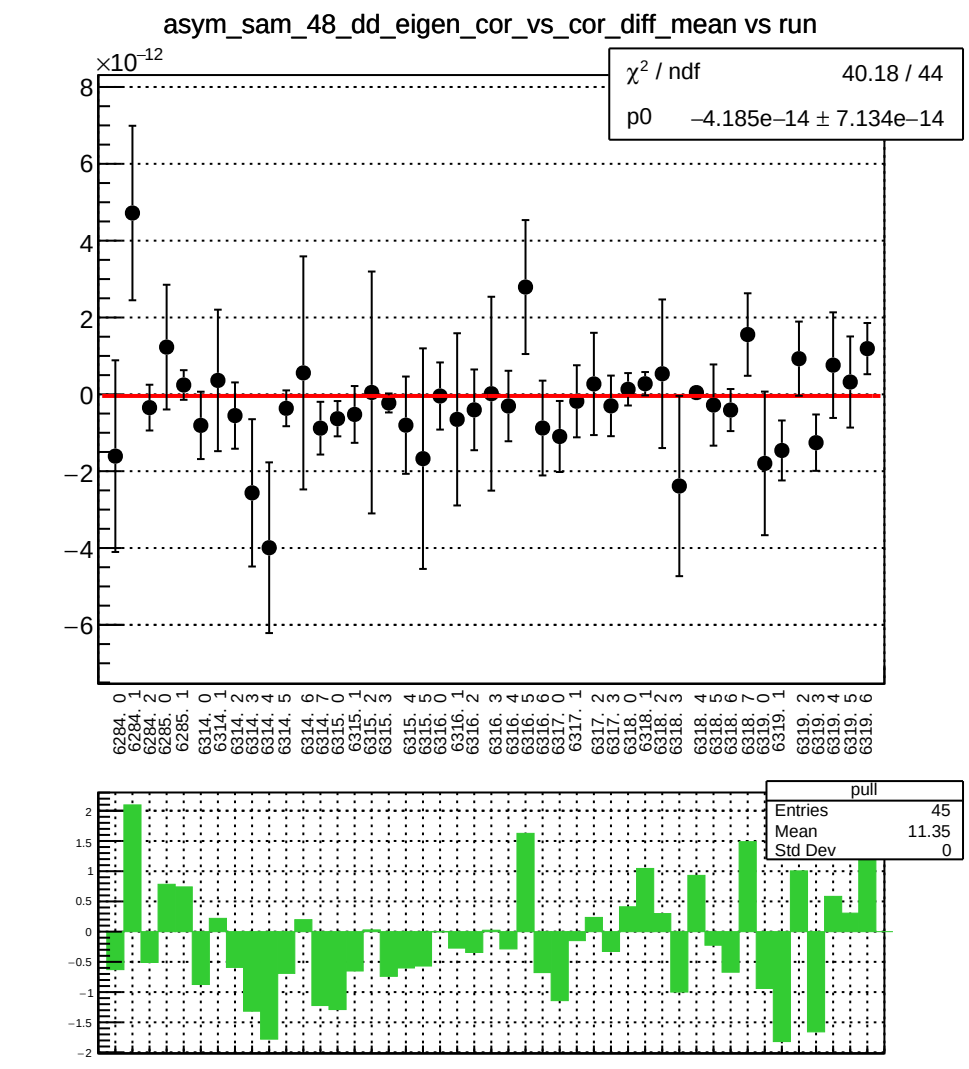

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.75 / 44
p0 −0.03736 ± 0.07393
pull
Entries 45
Mean −62.75
Std Dev 0
pull1D
Entries 45
Mean −0.02039
Std Dev 1.062

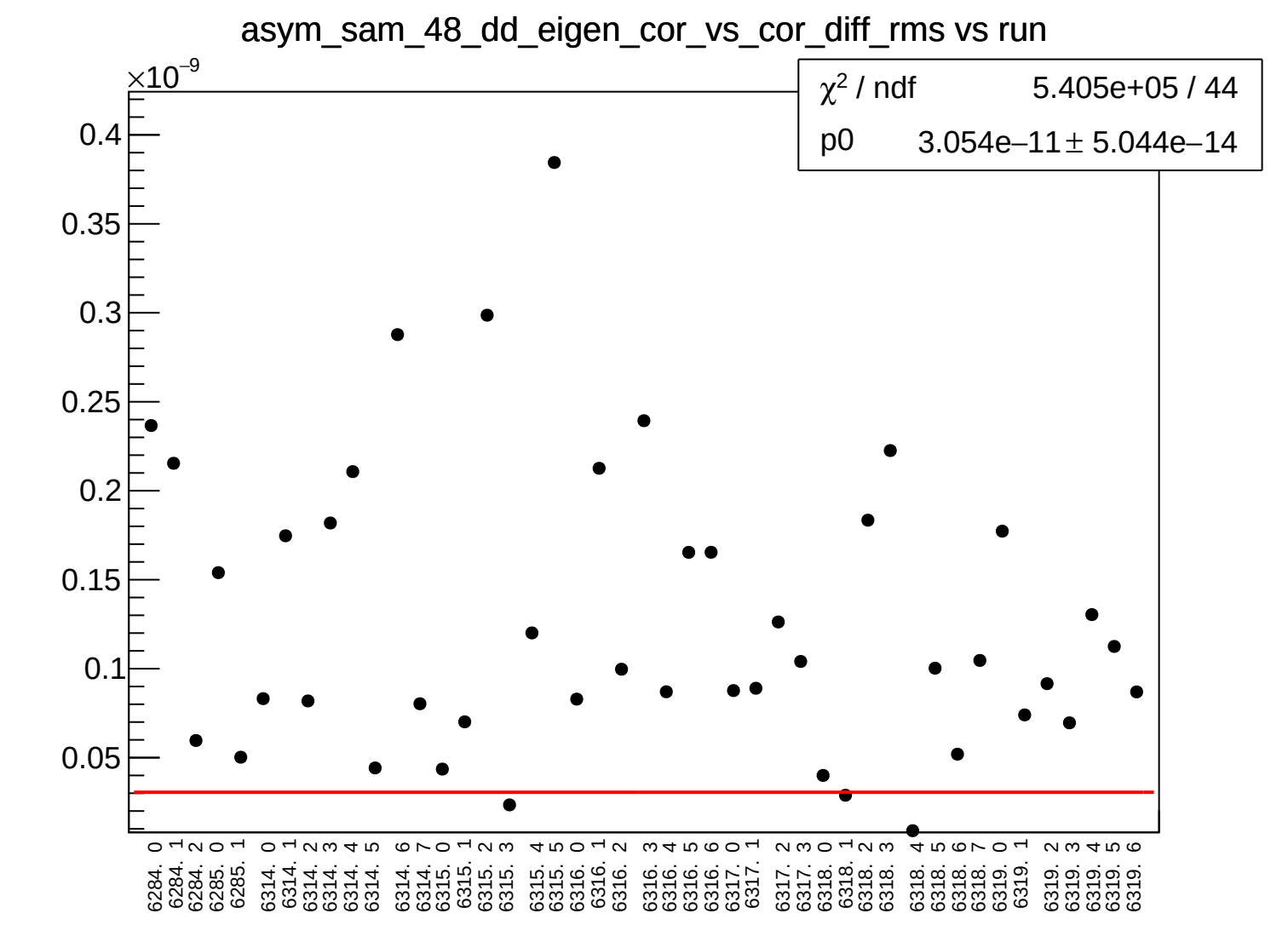

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.859e+04 / 44
p0 48.16 ± 0.05228
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

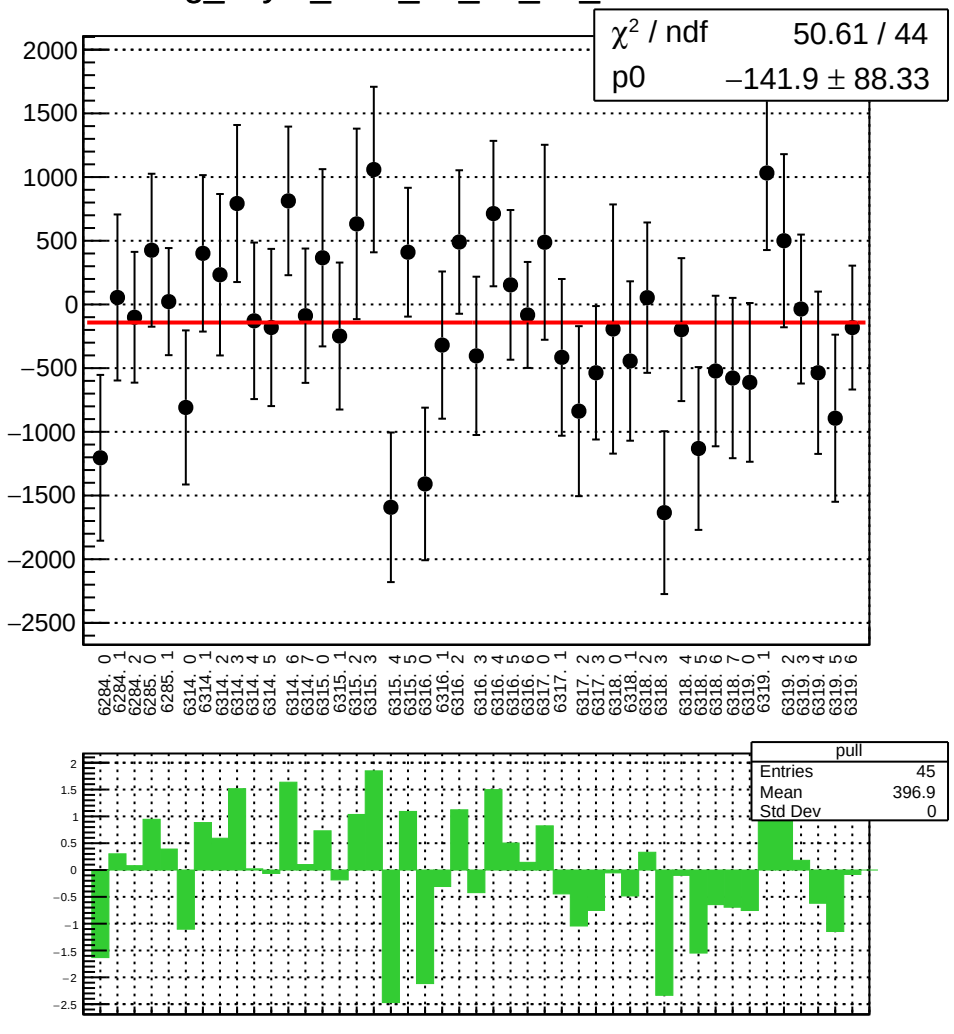

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.75 / 44
p0 −0.03736 ± 0.07393
pull
Entries 45
Mean −62.75
Std Dev 0

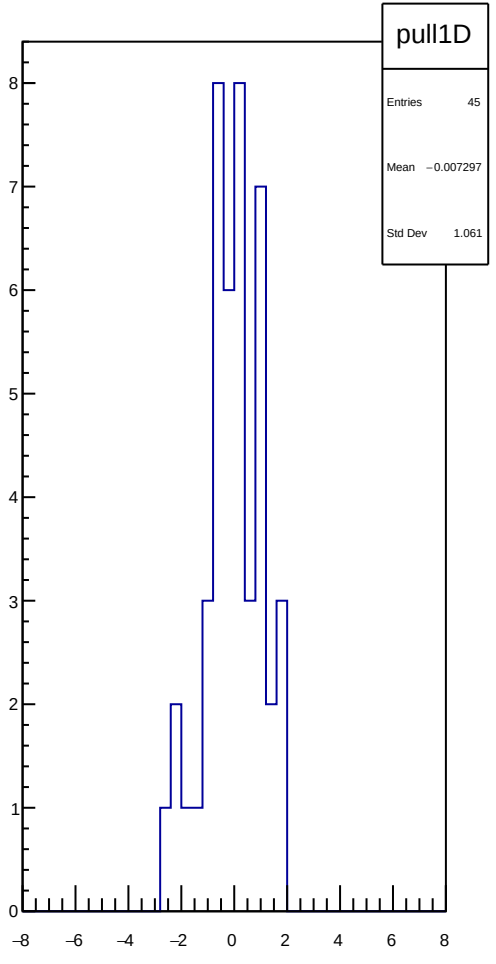

pull1D
Entries 45
Mean −0.02039
Std Dev 1.062

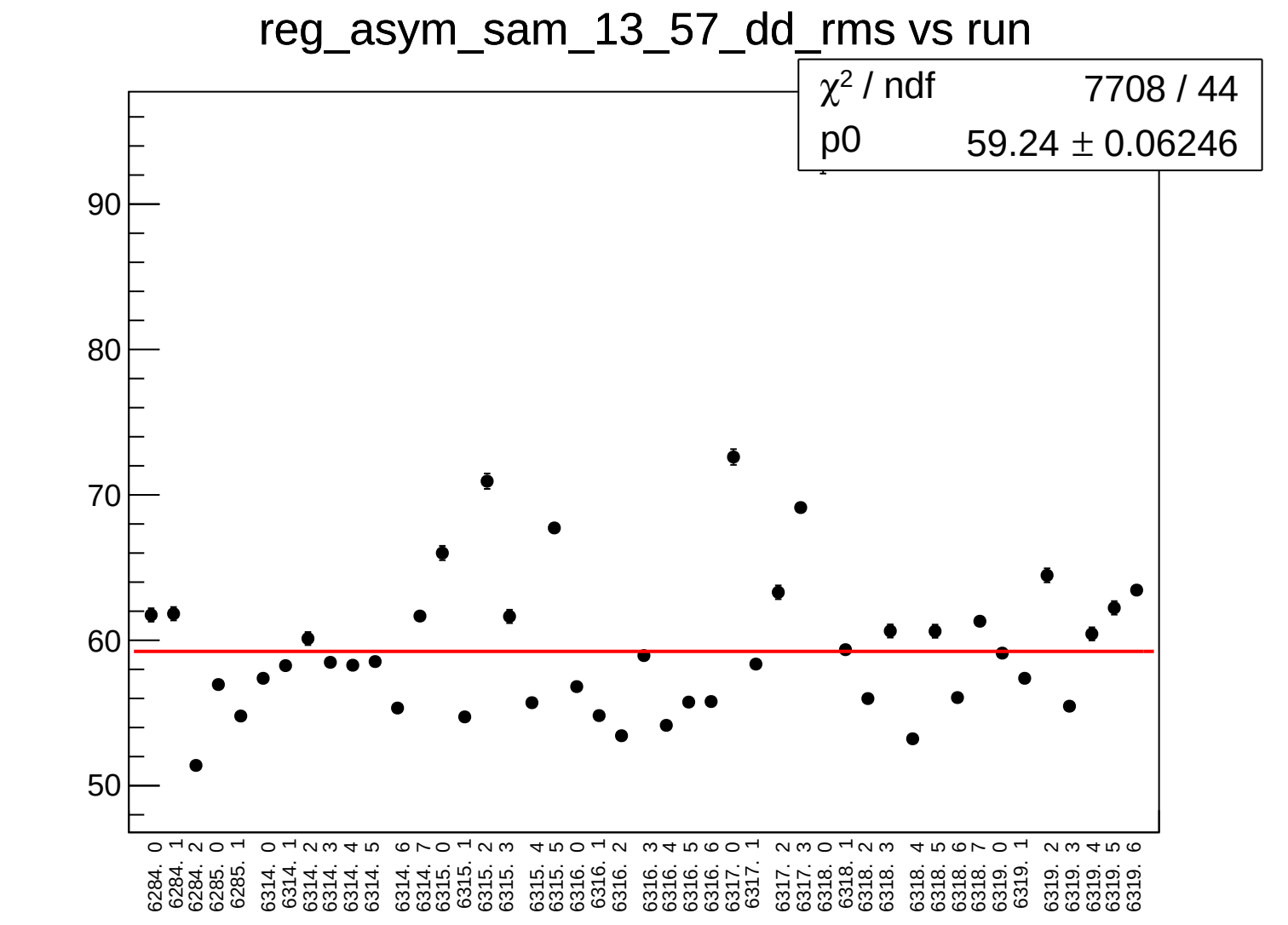

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.859e+04 / 44
p0 48.16 ± 0.05228
120
110
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.18 / 44
p0 −4.185e−14 ± 7.134e−14
8
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 11.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.1577
Std Dev 0.9317
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

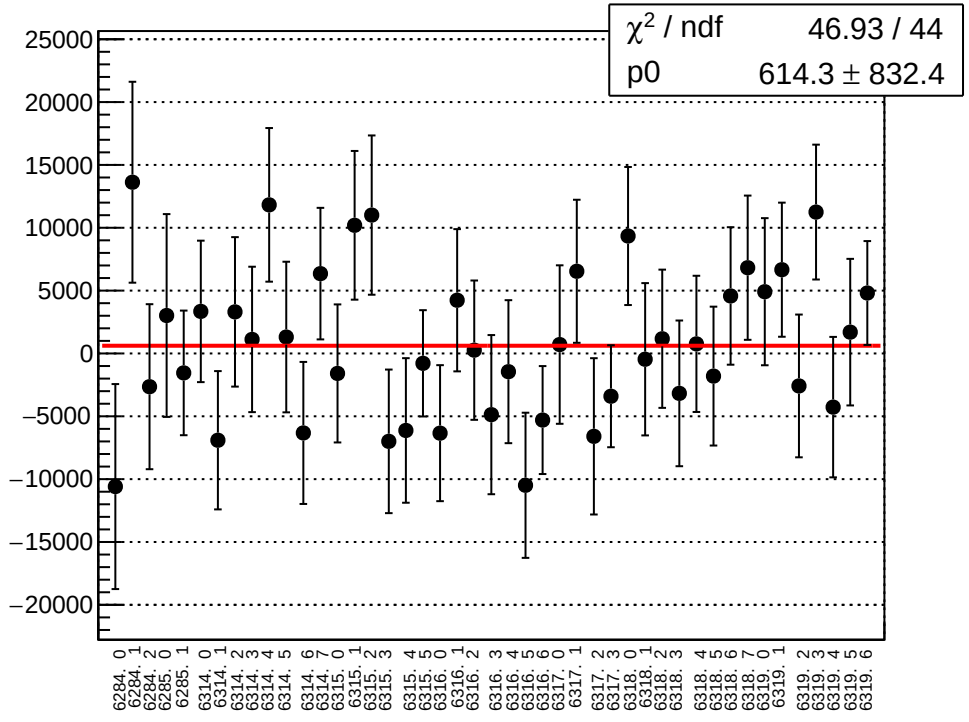

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.405e+05 / 44
p0 3.054e−11 ± 5.044e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

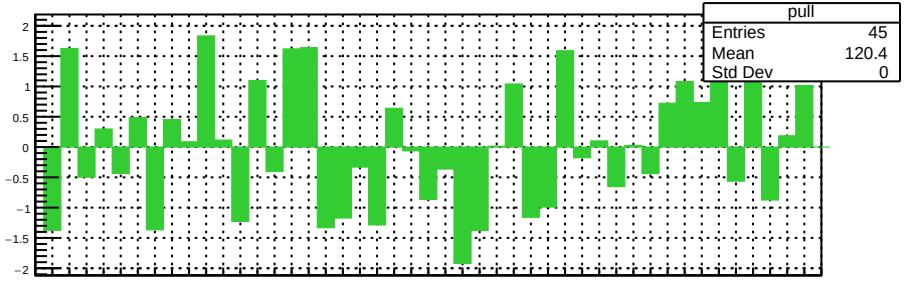

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 50.61 / 44
p0 −141.9 ± 88.33
pull
Entries 45
Mean 396.9
Std Dev 0

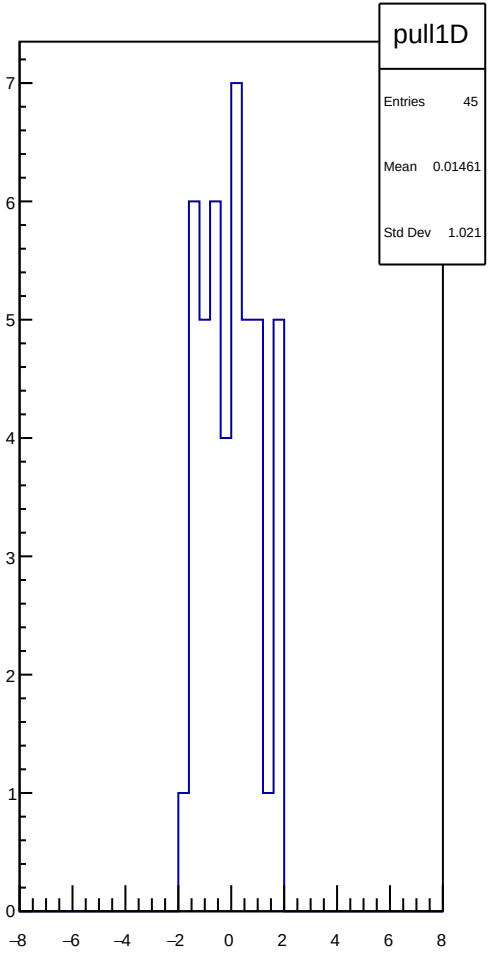

pull1D
Entries 45
Mean −0.007297
Std Dev 1.061

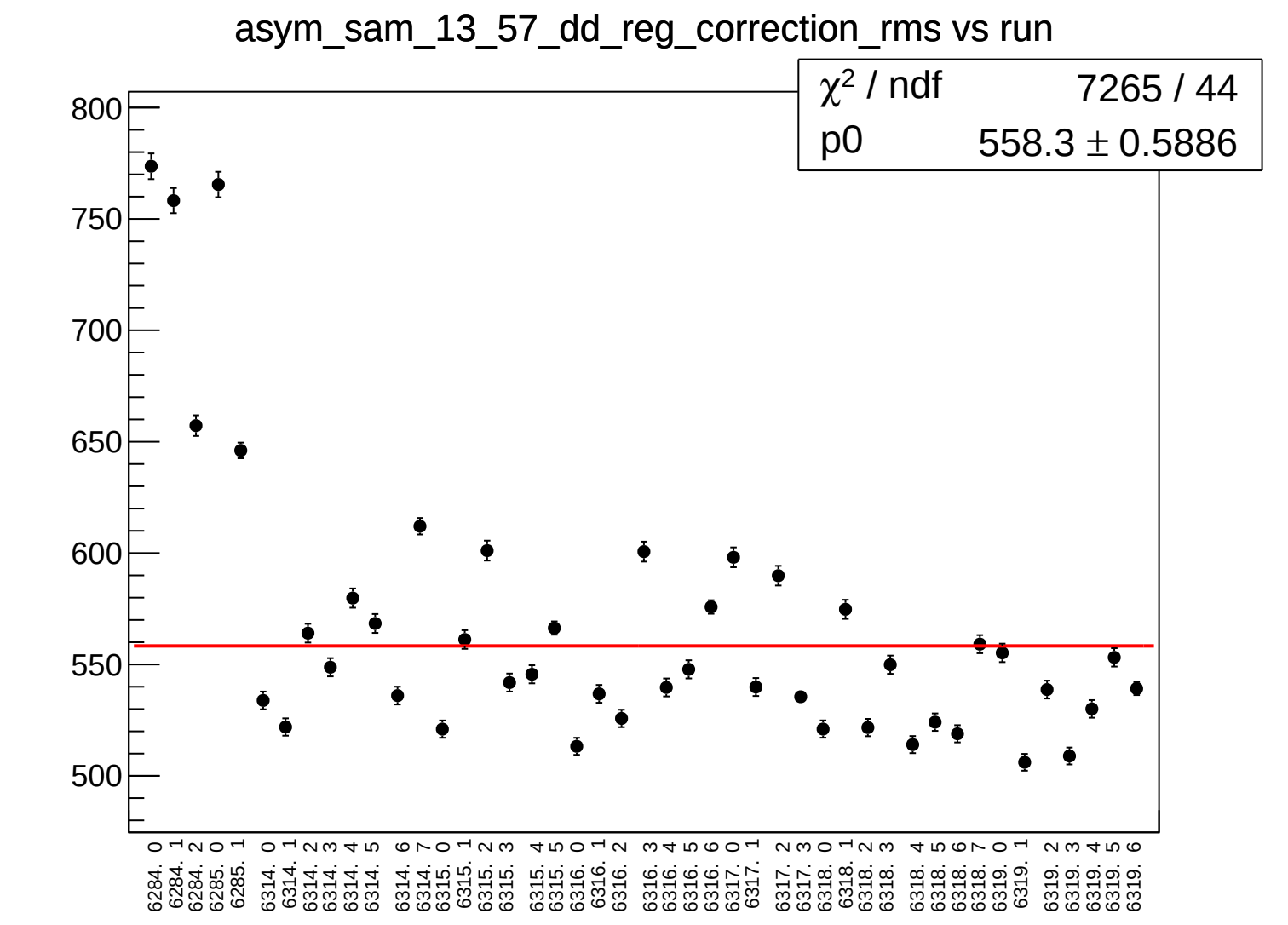

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7708 / 44
p0 59.24 ± 0.06246
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

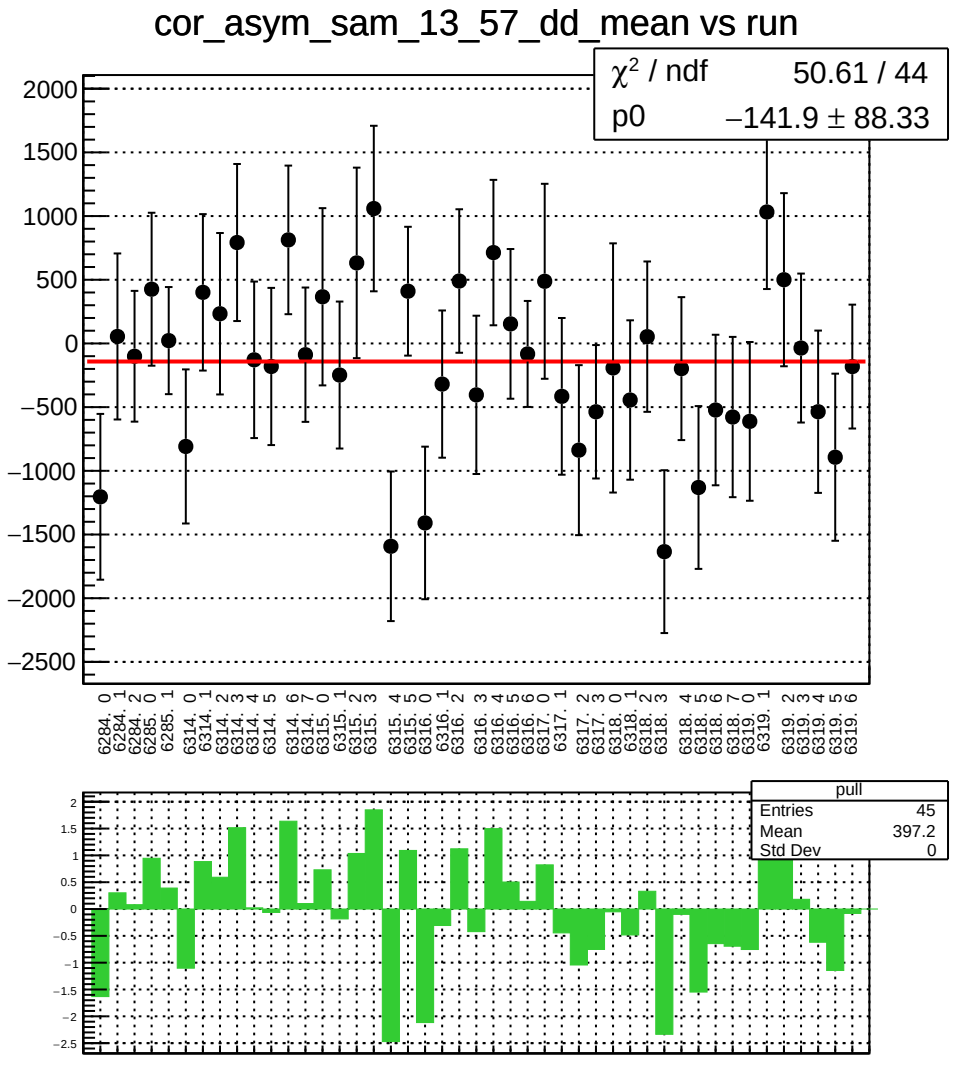
asym_sam_13_57_dd_reg_correction_mean vs run

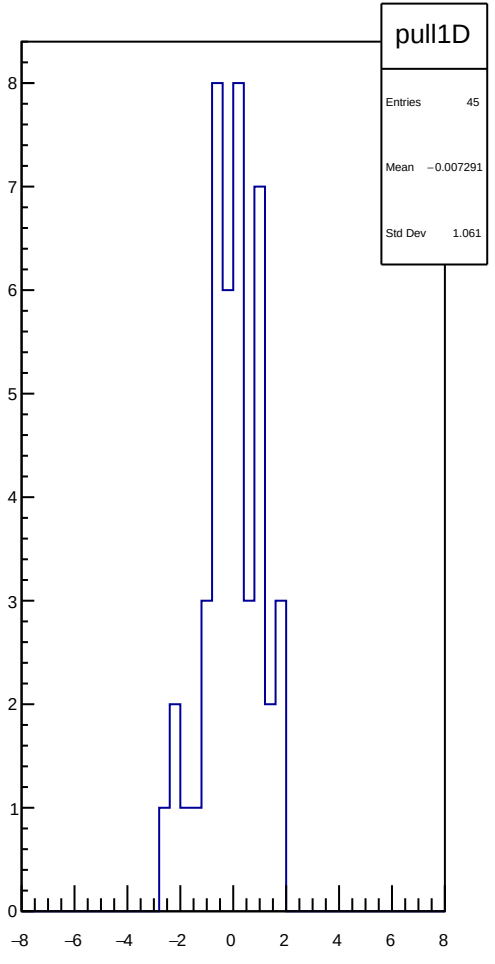


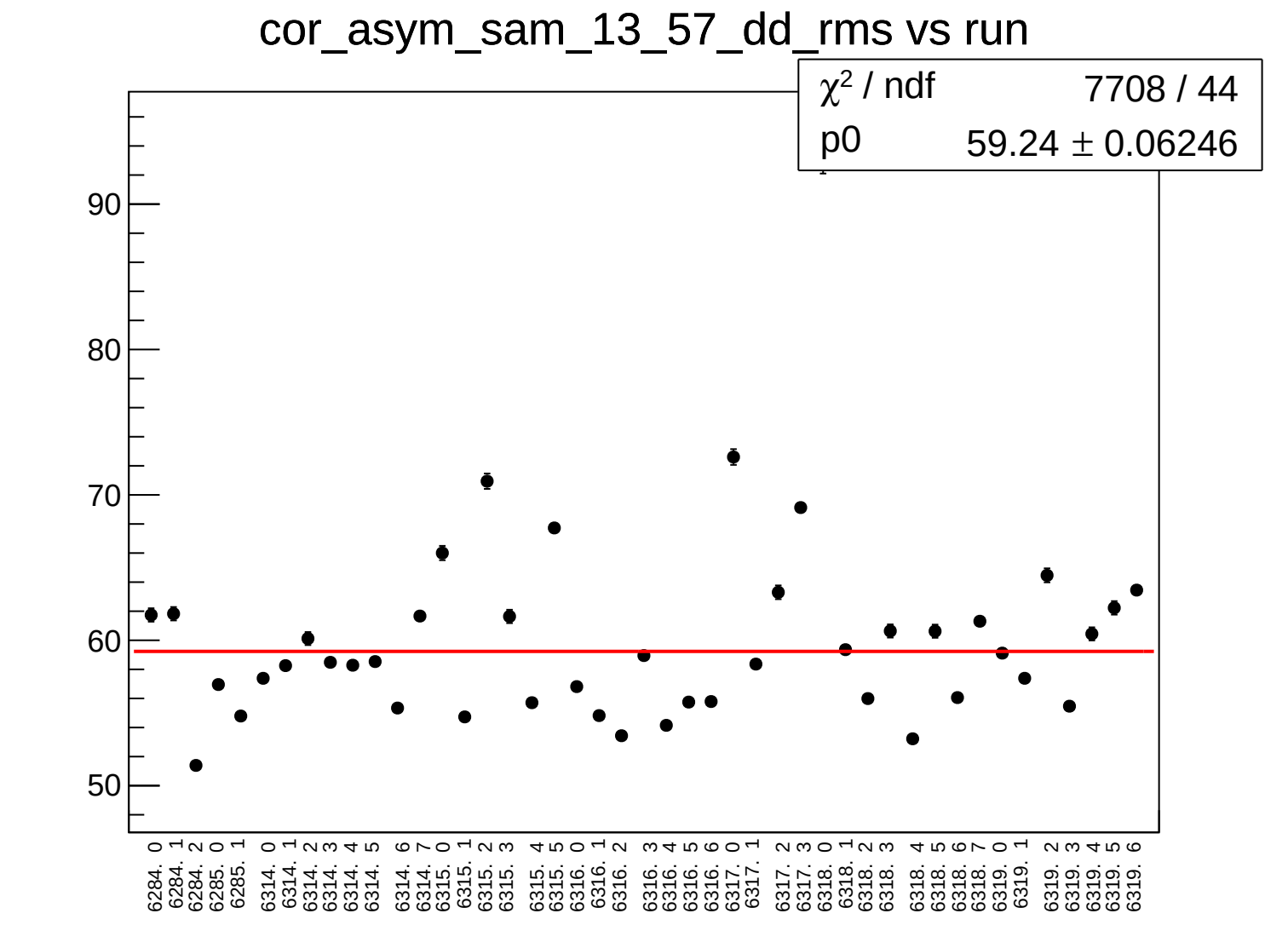




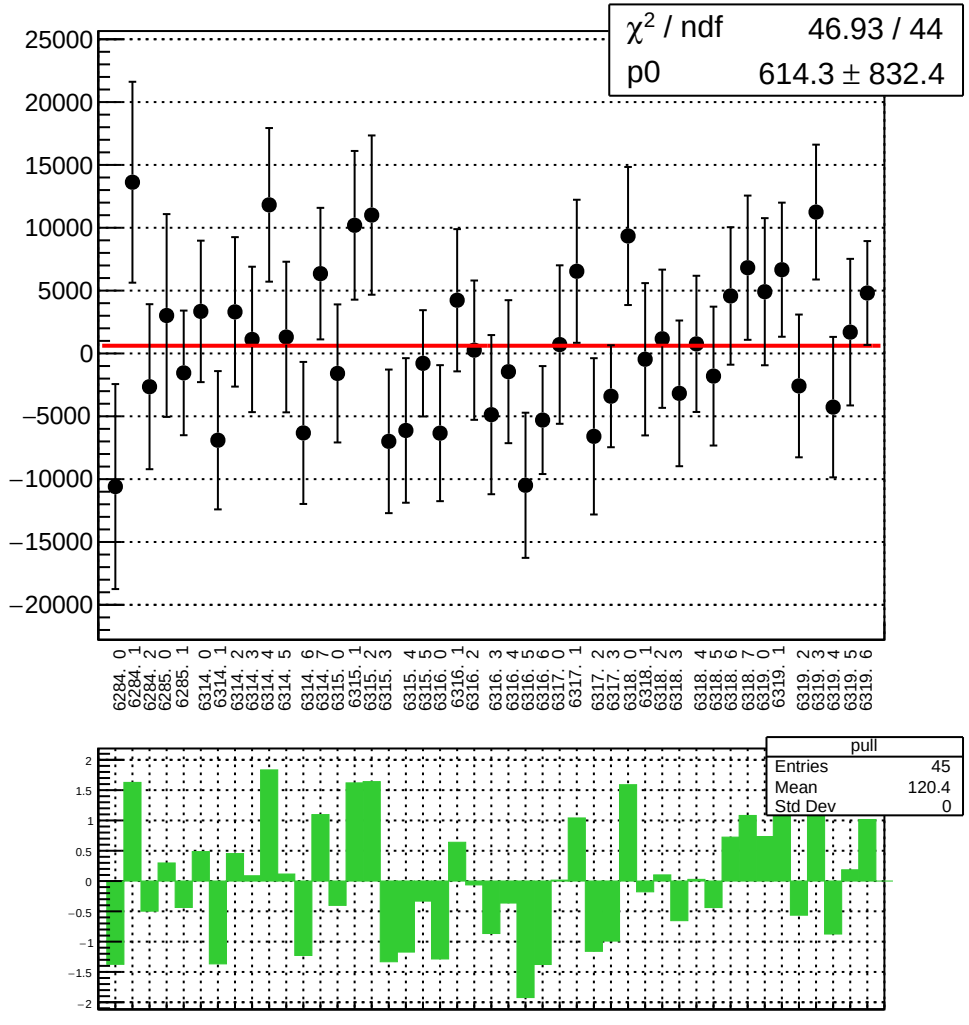

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 7265 / 44
p0 558.3 ± 0.5886
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

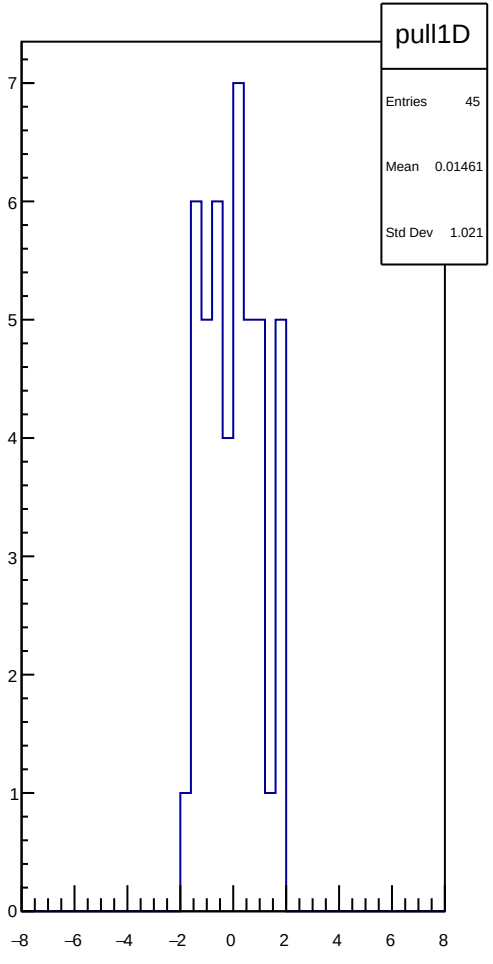

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 50.61 / 44
p0 −141.9 ± 88.33
pull
Entries 45
Mean 397.2
Std Dev 0

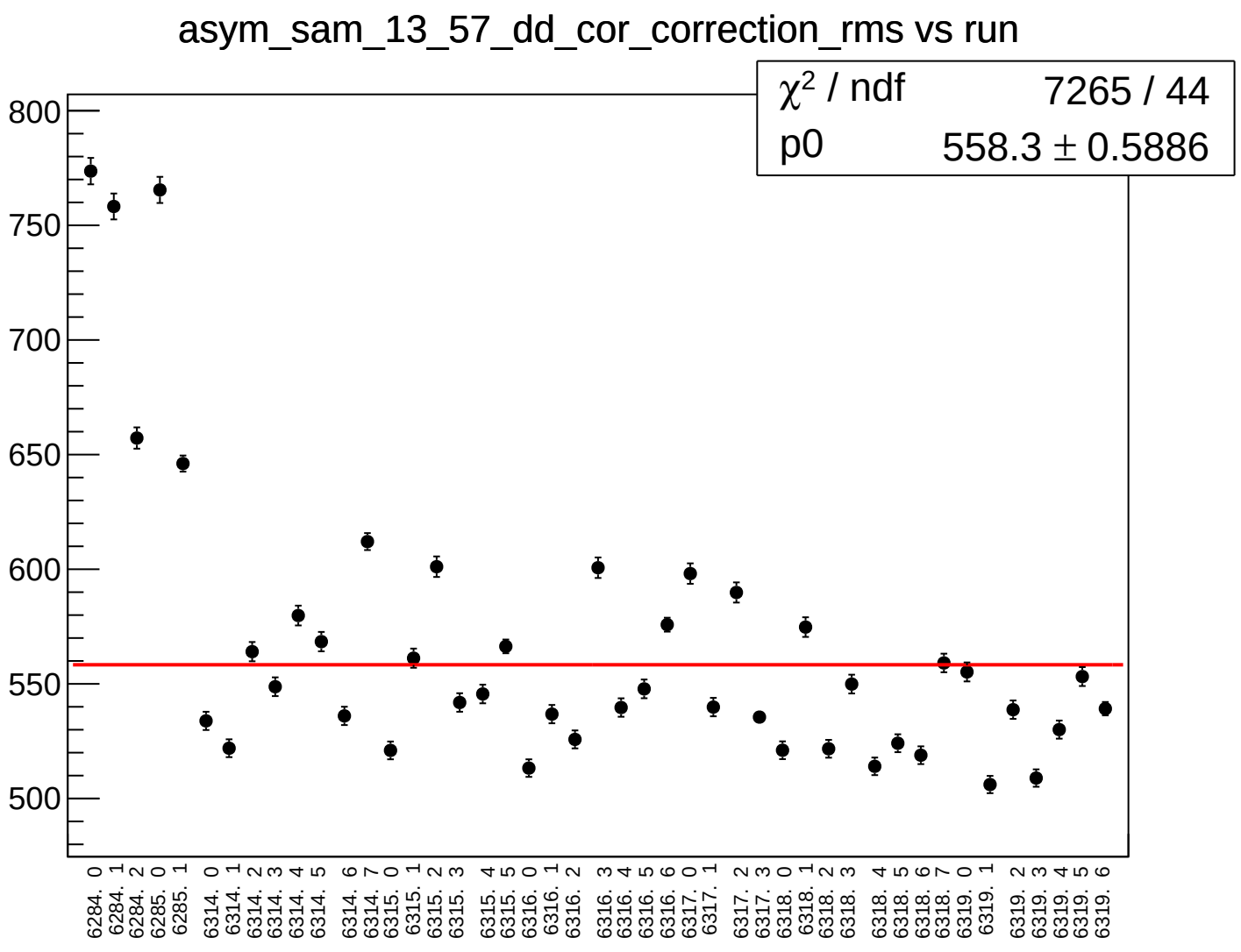

pull1D
Entries 45
Mean −0.007291
Std Dev 1.061

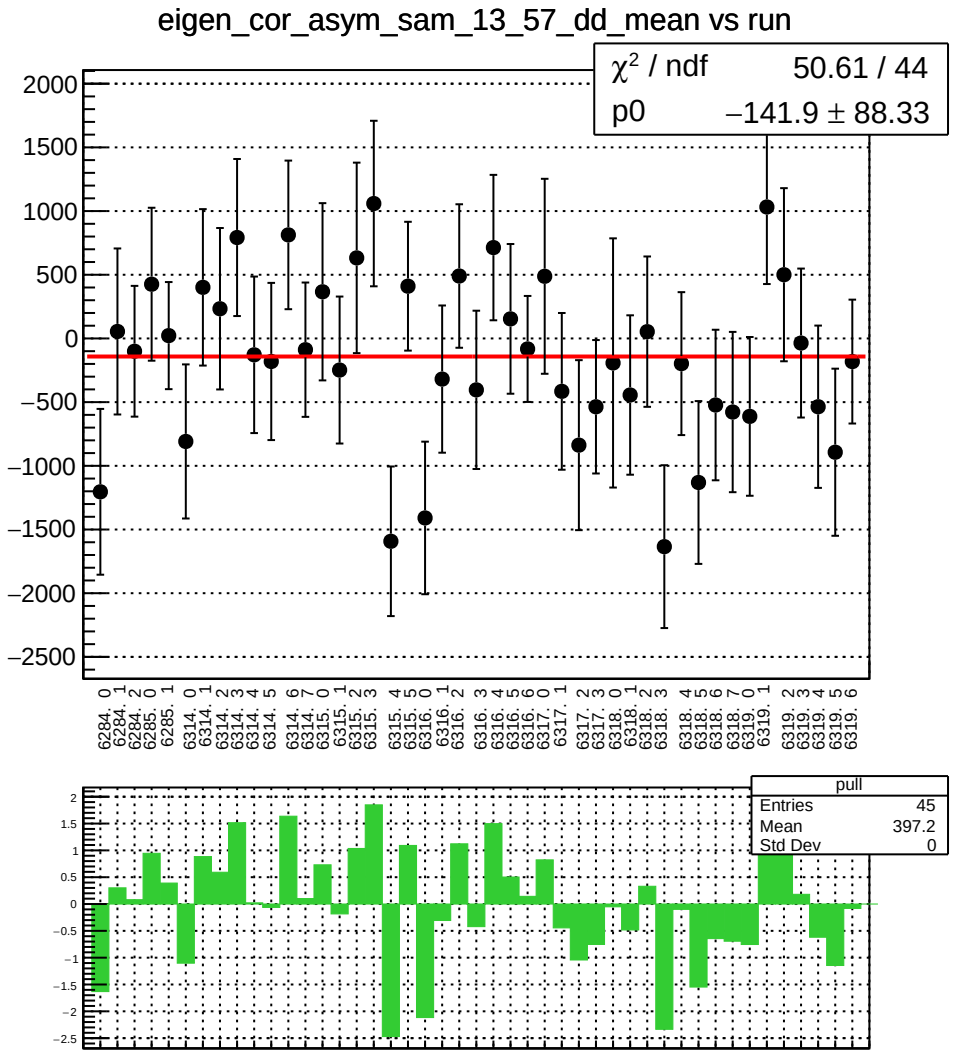

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7708 / 44
p0 59.24 ± 0.06246
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

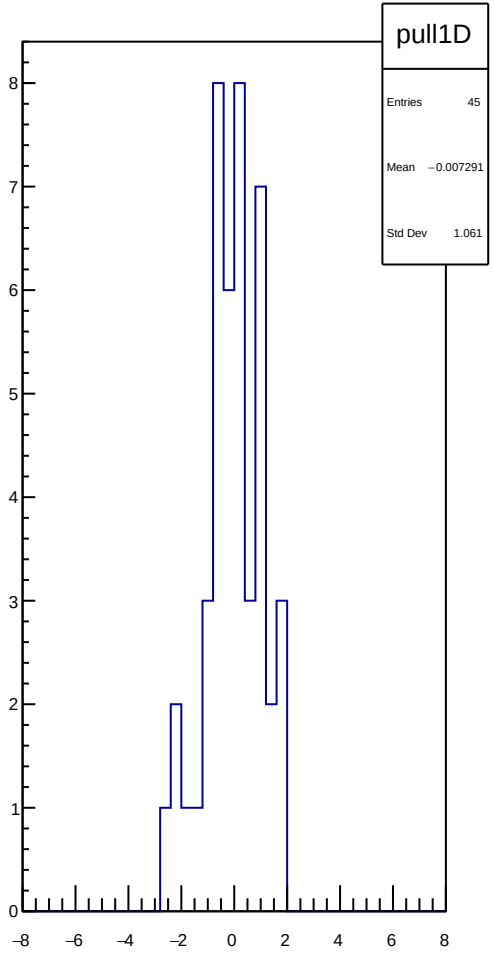
asym_sam_13_57_dd_cor_correction_mean vs run

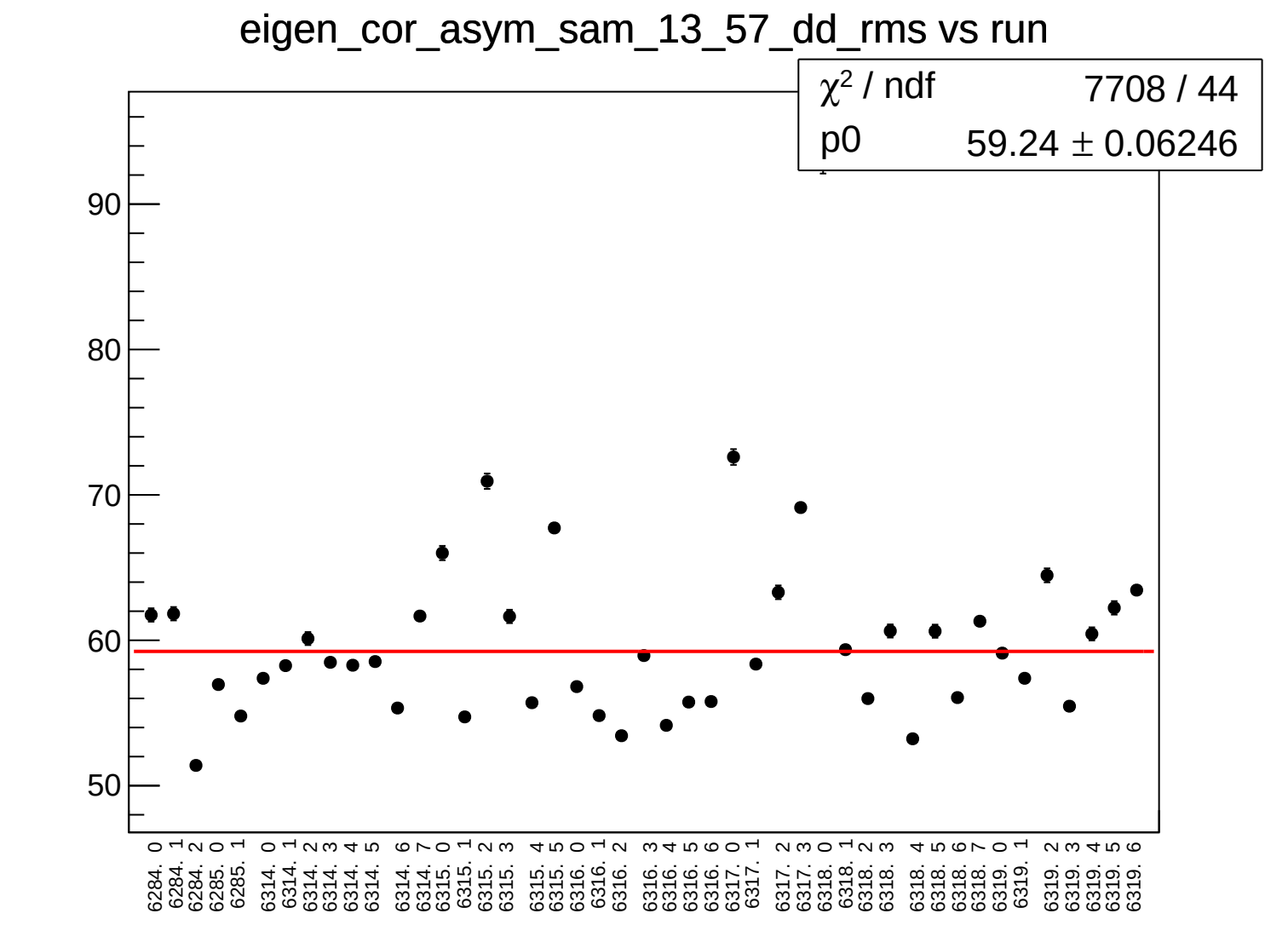


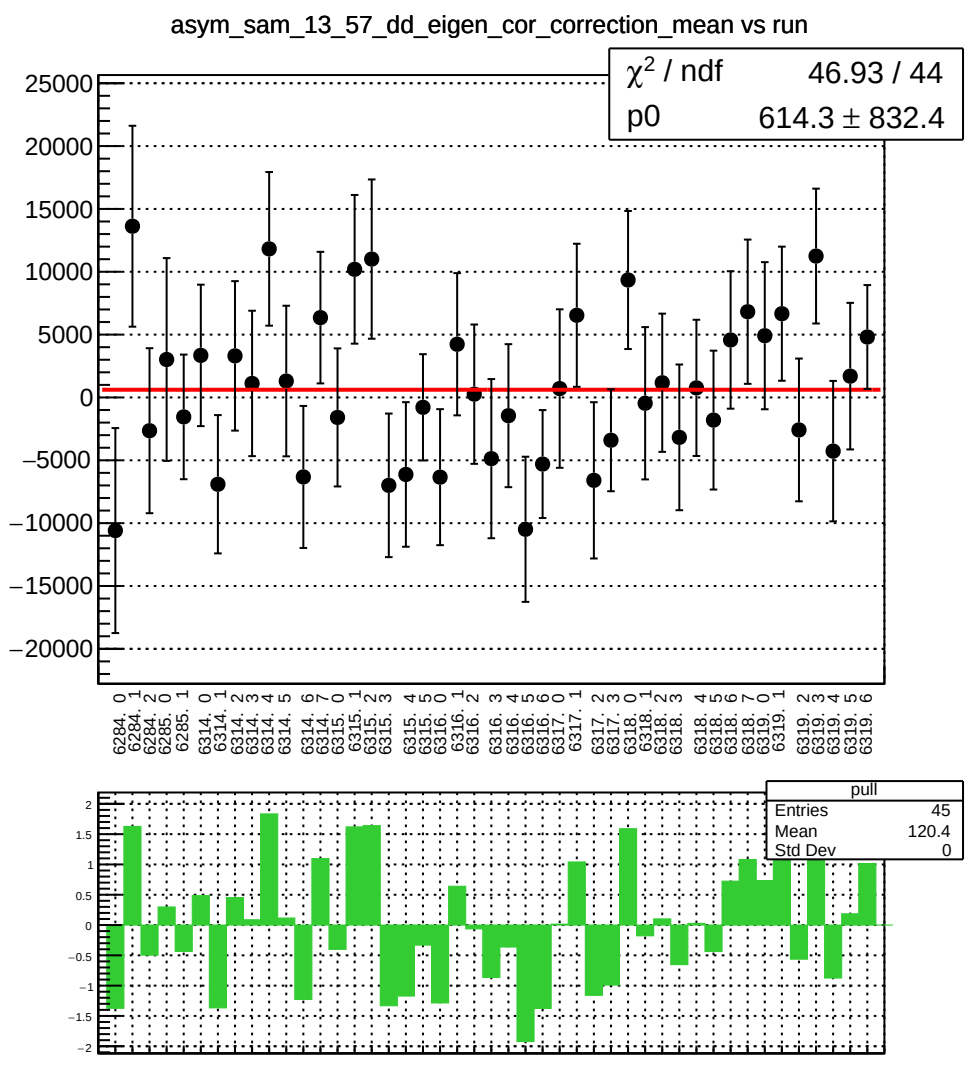


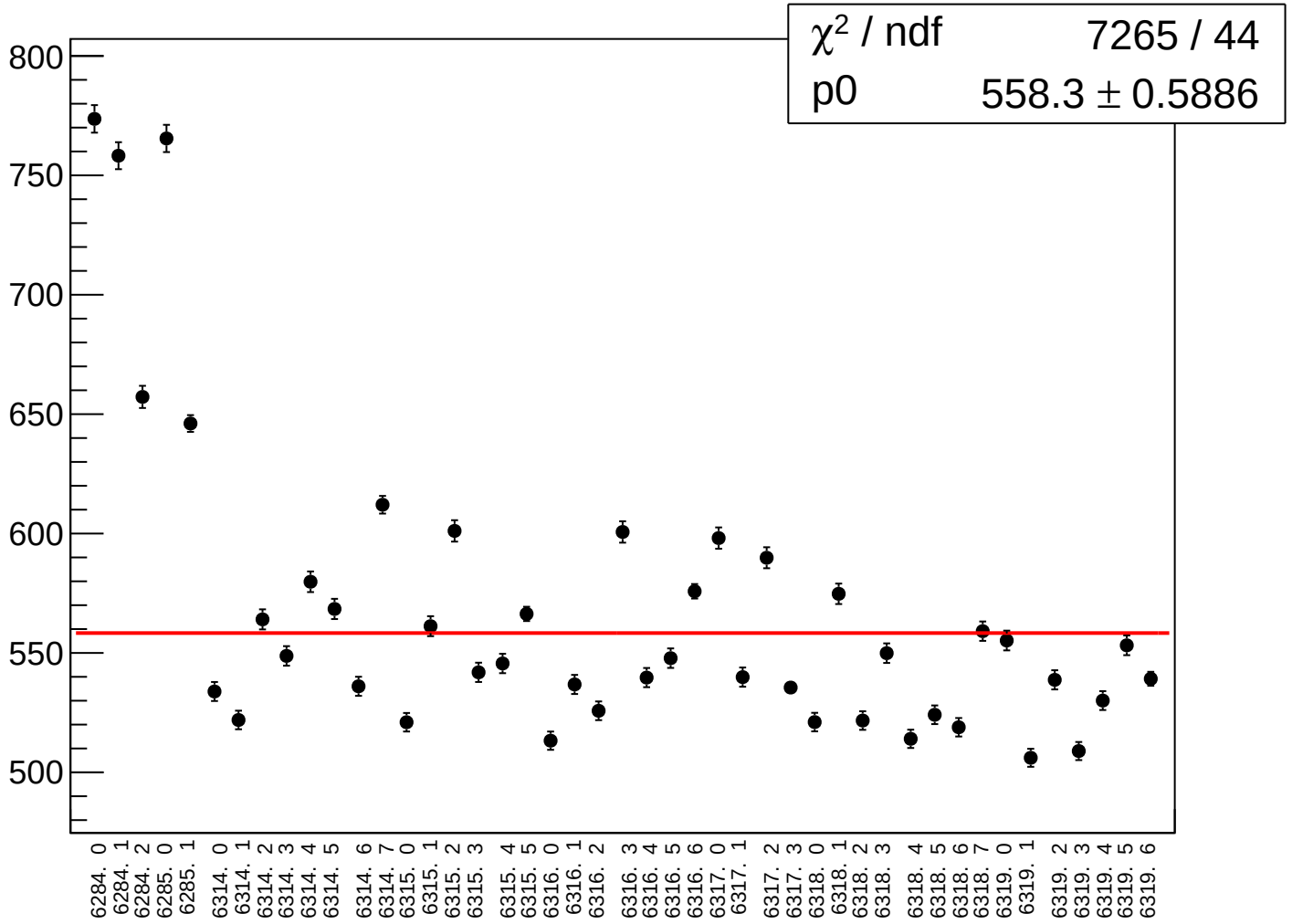

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 7265 / 44
p0 558.3 ± 0.5886
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

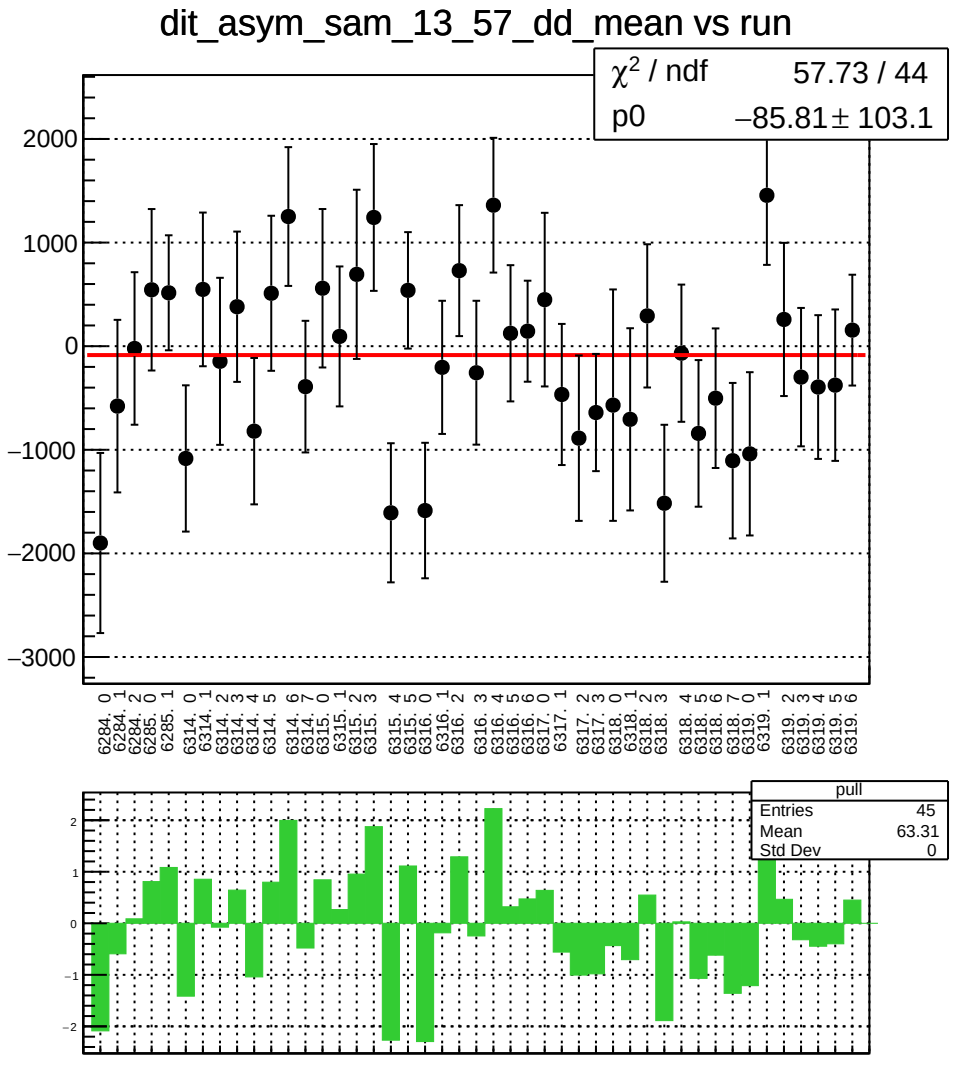

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 50.61 / 44
p0 −141.9 ± 88.33
pull
Entries 45
Mean 397.2
Std Dev 0

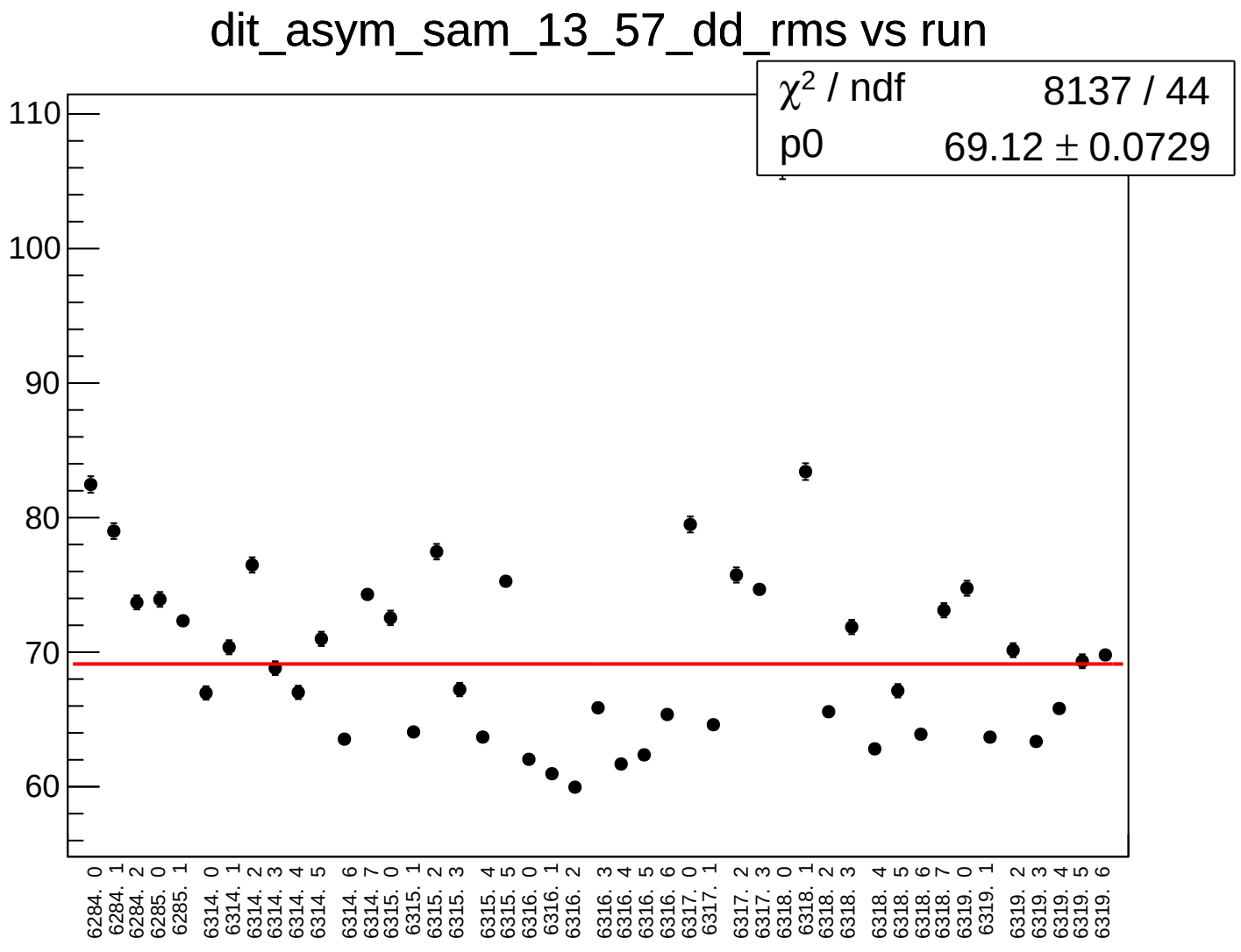

pull1D
Entries 45
Mean −0.007291
Std Dev 1.061


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7708 / 44
p0 59.24 ± 0.06246
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.93 / 44
p0 614.3 ± 832.4
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01461
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 7265 / 44
p0 558.3 ± 0.5886
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 57.73 / 44
p0 −85.81 ± 103.1
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 63.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03576
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 8137 / 44
p0 69.12 ± 0.0729
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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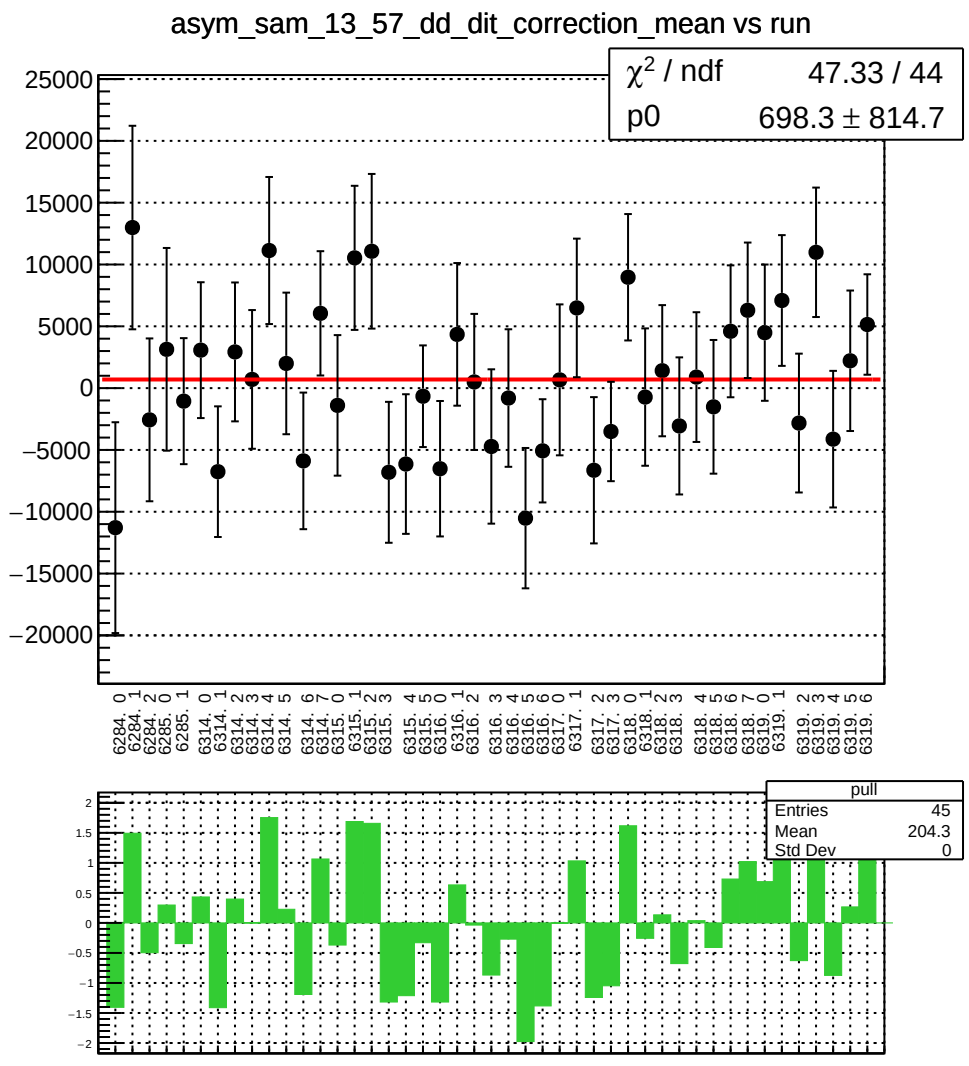
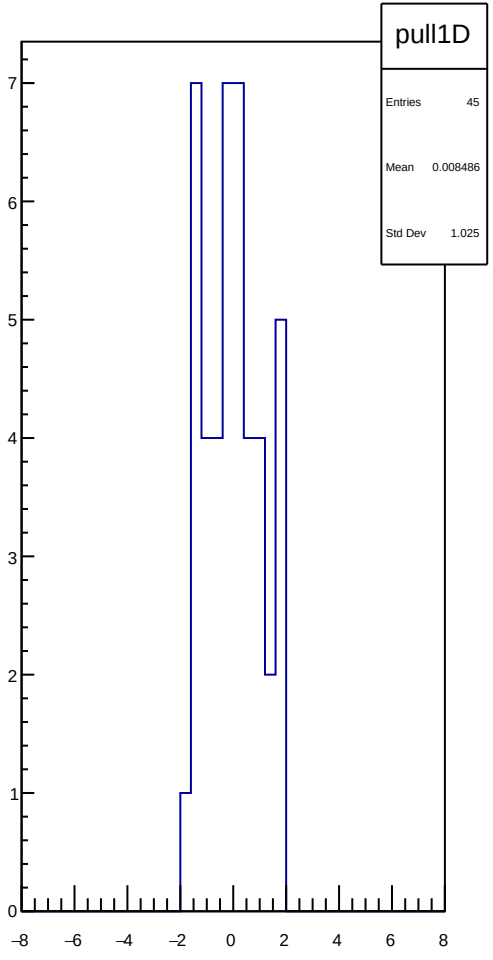
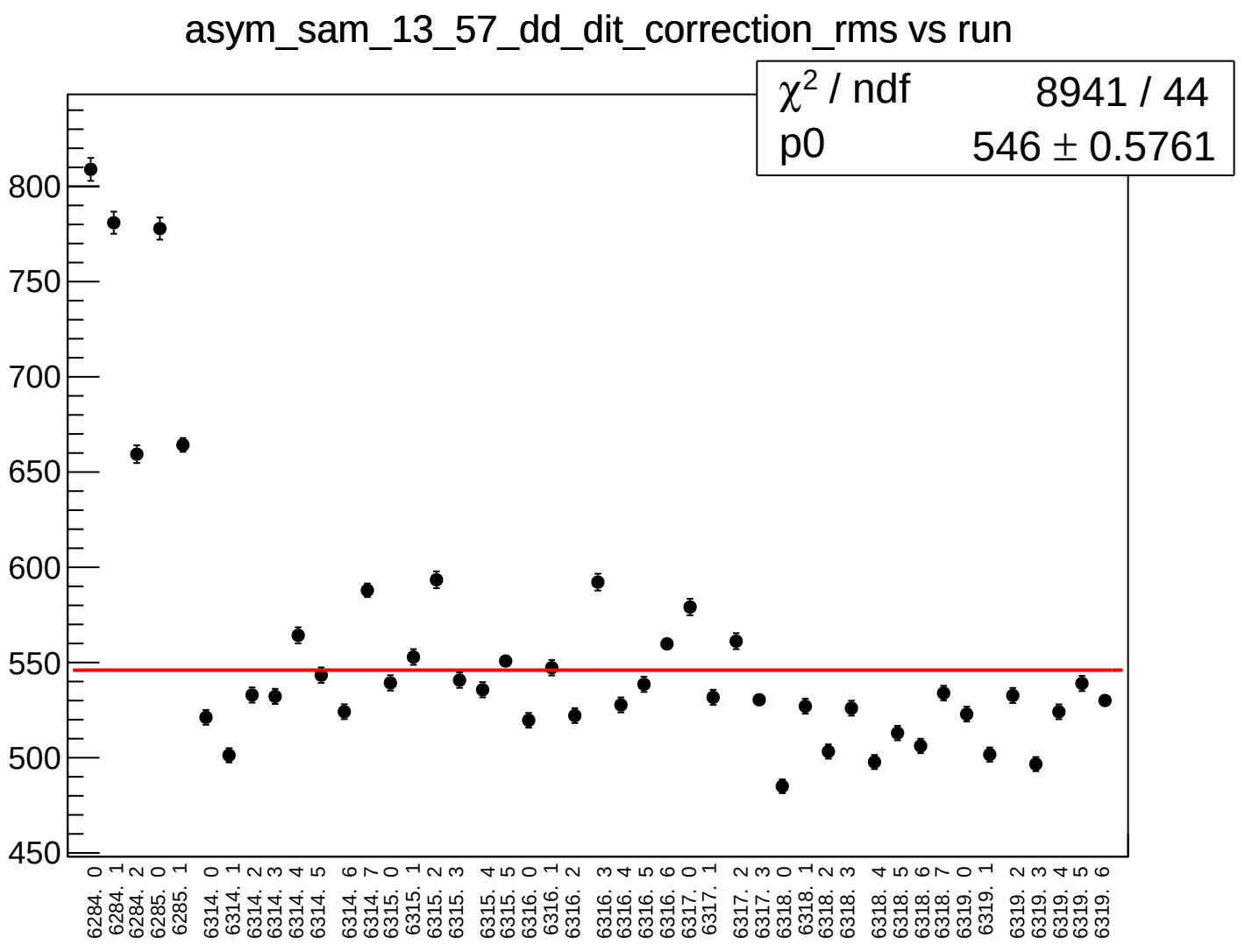
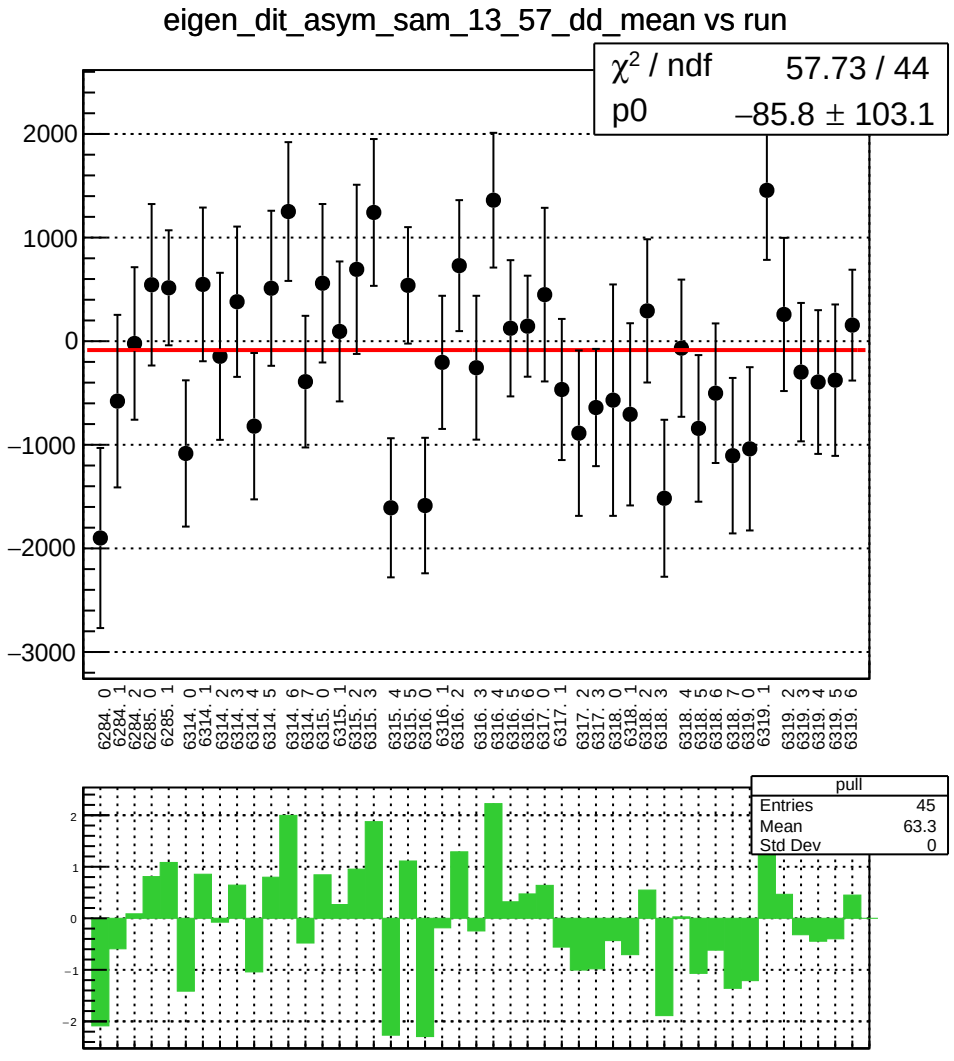
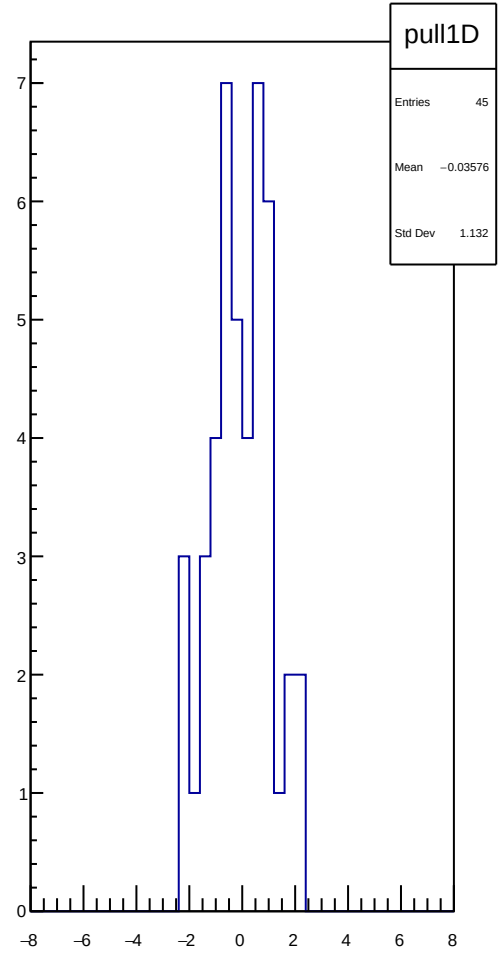
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

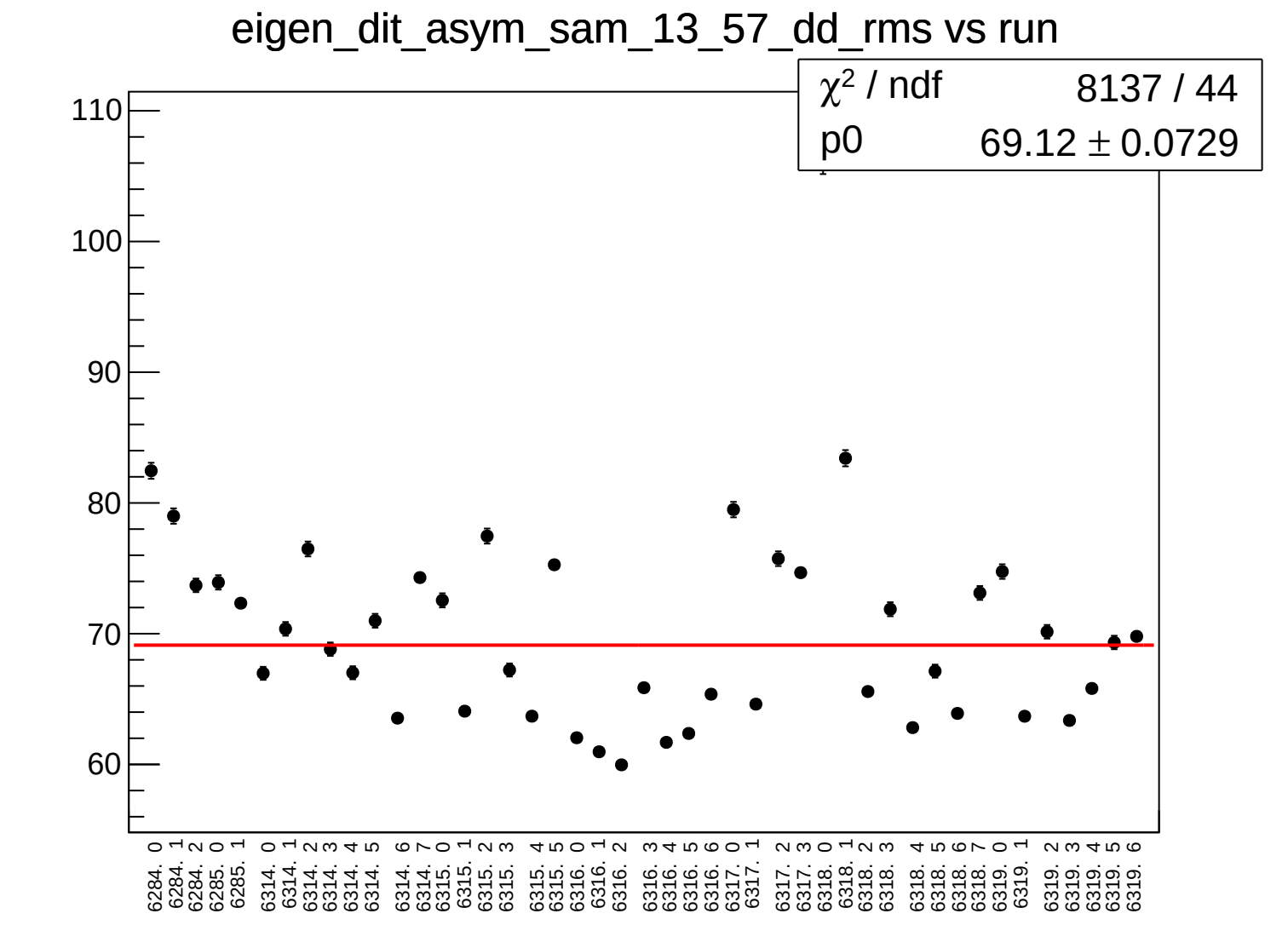

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 47.33 / 44
p0 698.3 ± 814.7
pull
Entries 45
Mean 204.3
Std Dev 0


pull1D
Entries 45
Mean 0.008486
Std Dev 1.025


asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 8941 / 44
p0 546 ± 0.5761
800
750
700
650
600
550
500
450
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 57.73 / 44
p0 −85.8 ± 103.1
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 63.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03576
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 8137 / 44
p0 69.12 ± 0.0729
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
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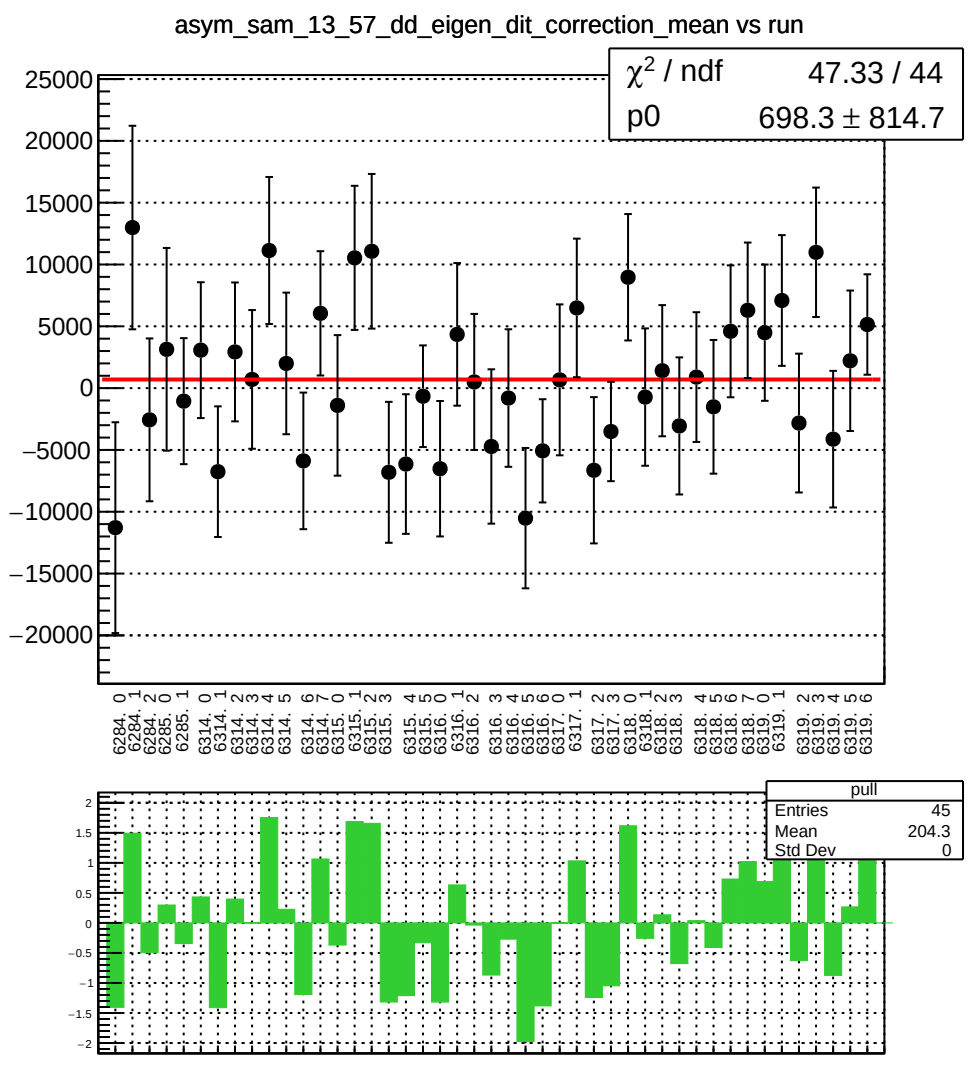
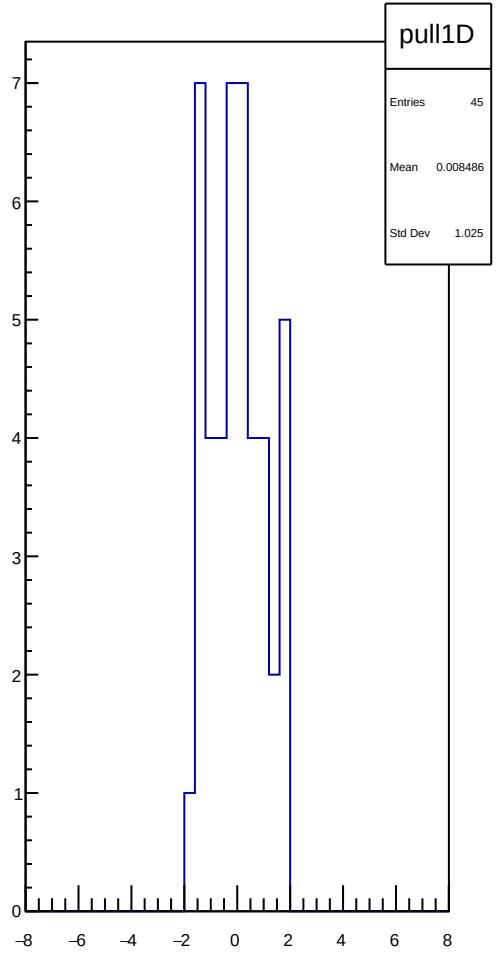
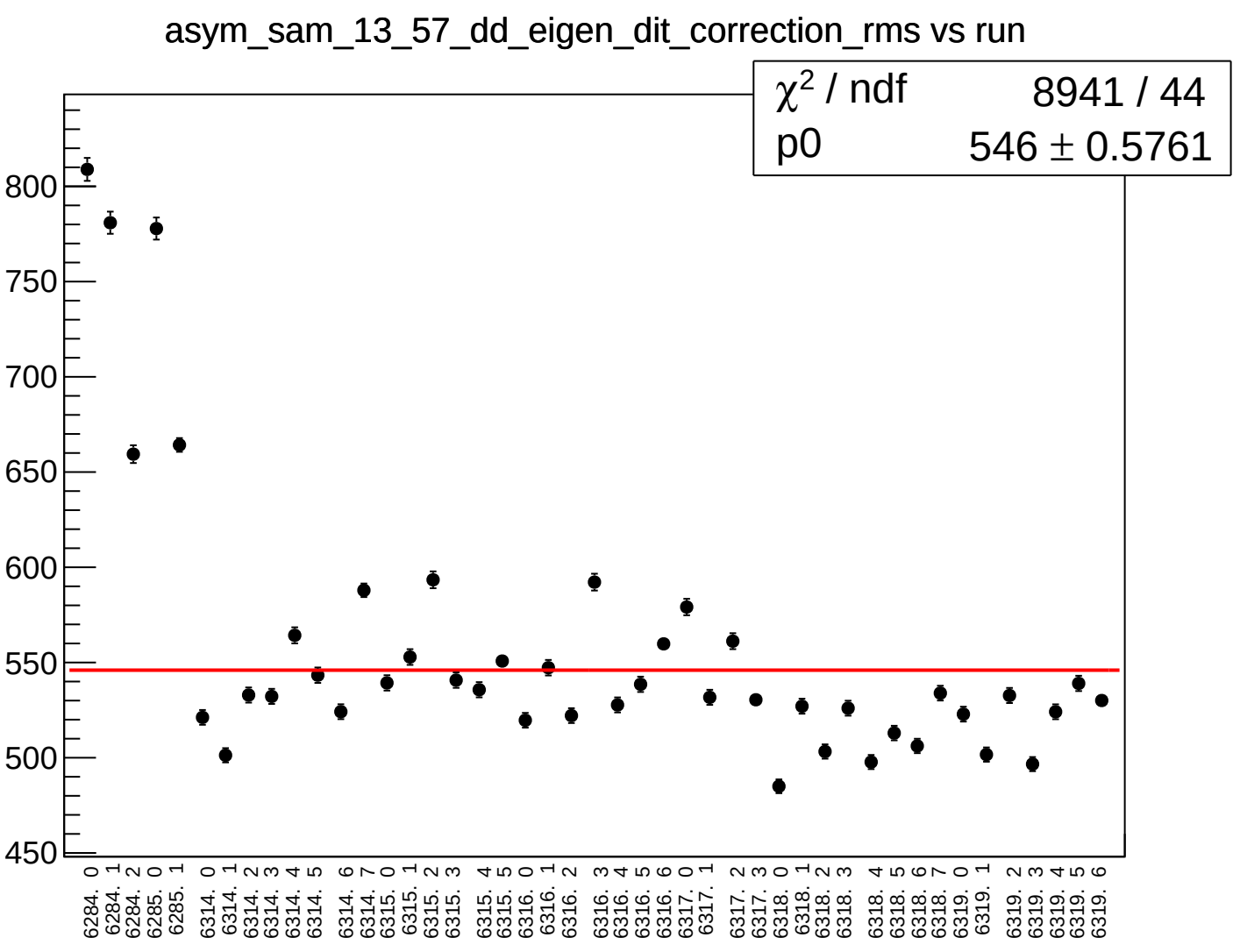
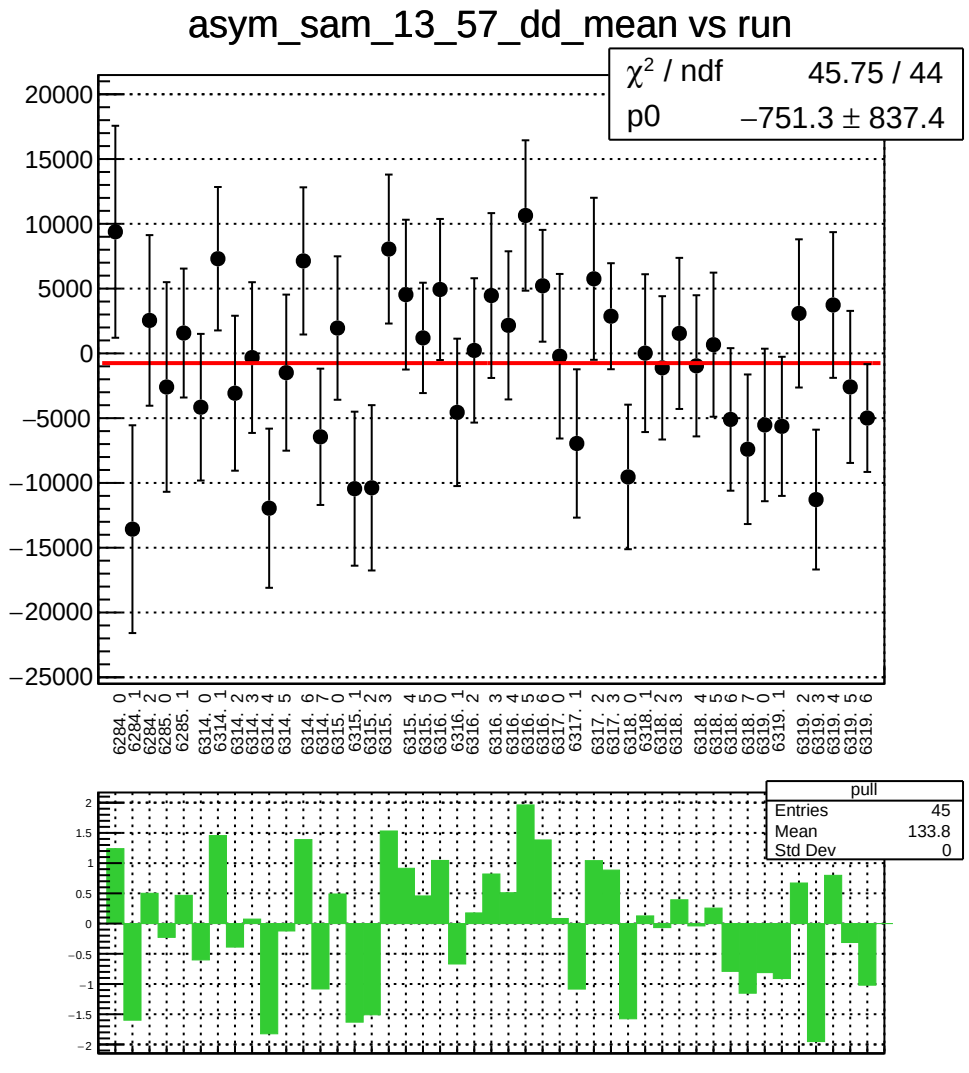
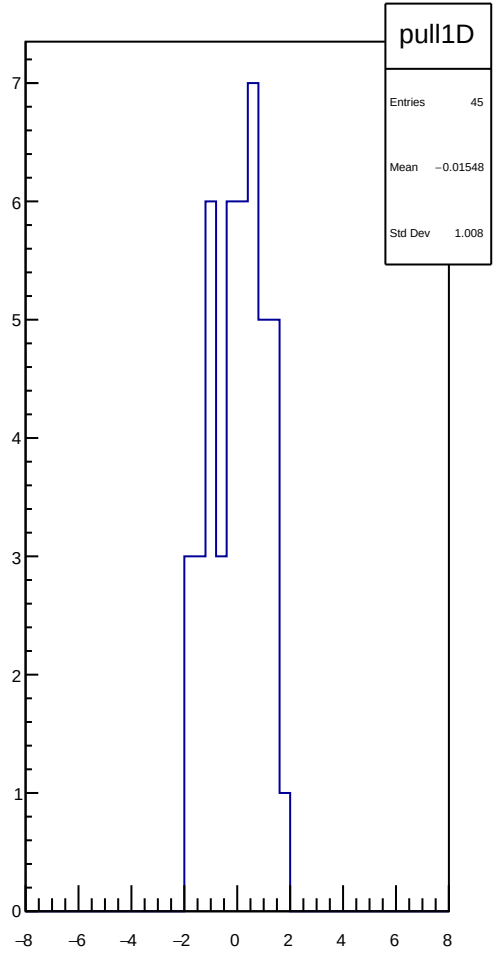
6319. 5
6319. 6

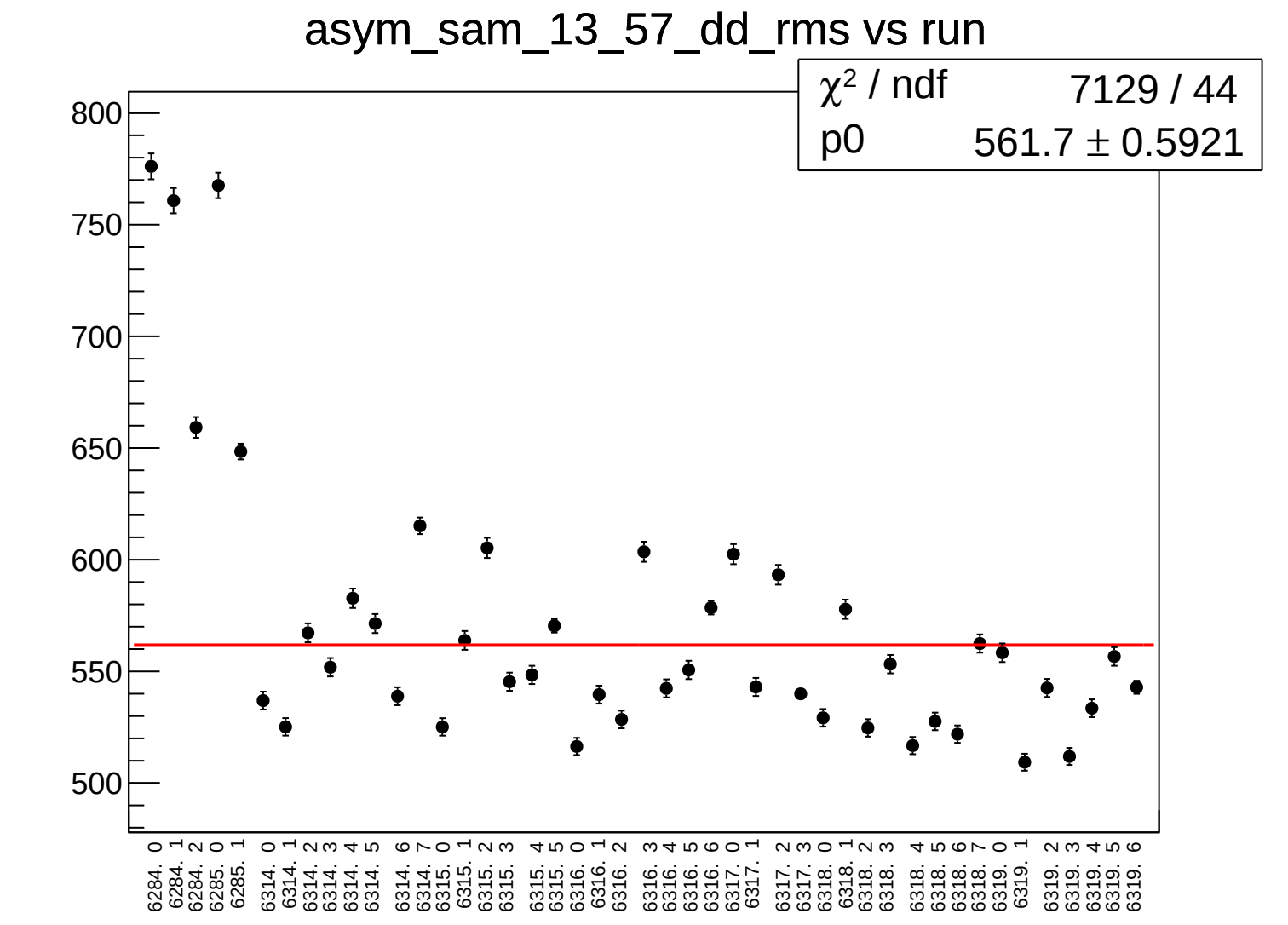

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.33 / 44
p0 698.3 ± 814.7
pull
Entries 45
Mean 204.3
Std Dev 0

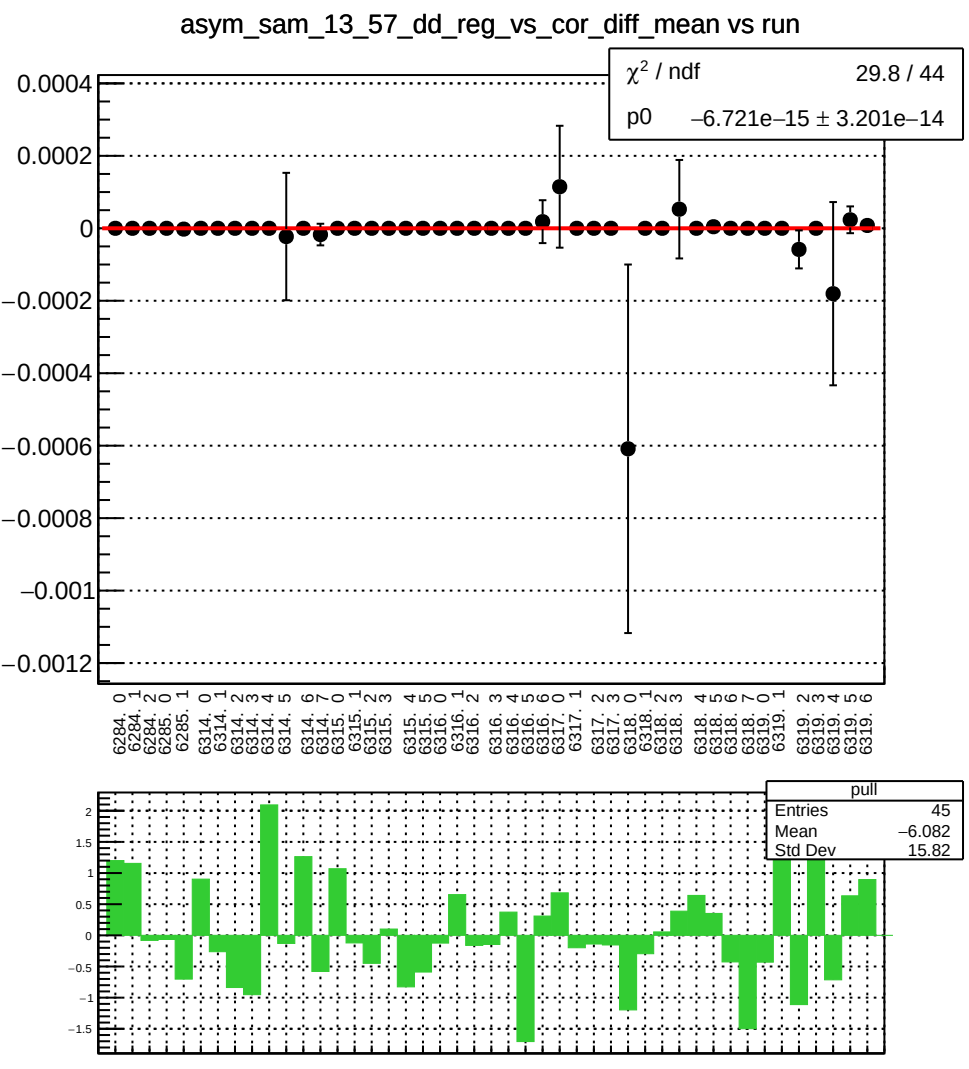

pull1D
Entries 45
Mean 0.008486
Std Dev 1.025

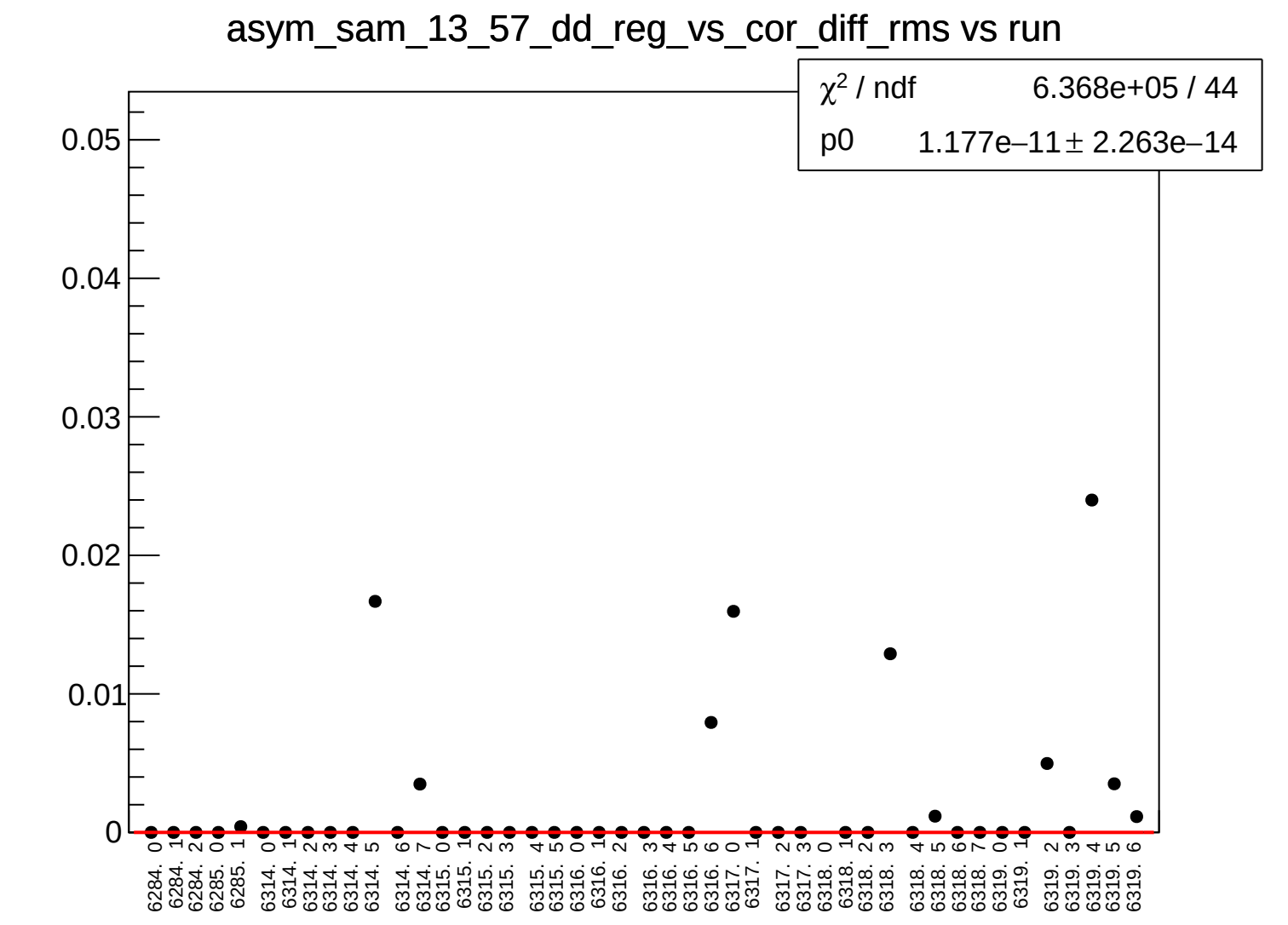

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 8941 / 44
p0 546 ± 0.5761
800
750
700
650
600
550
500
450
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

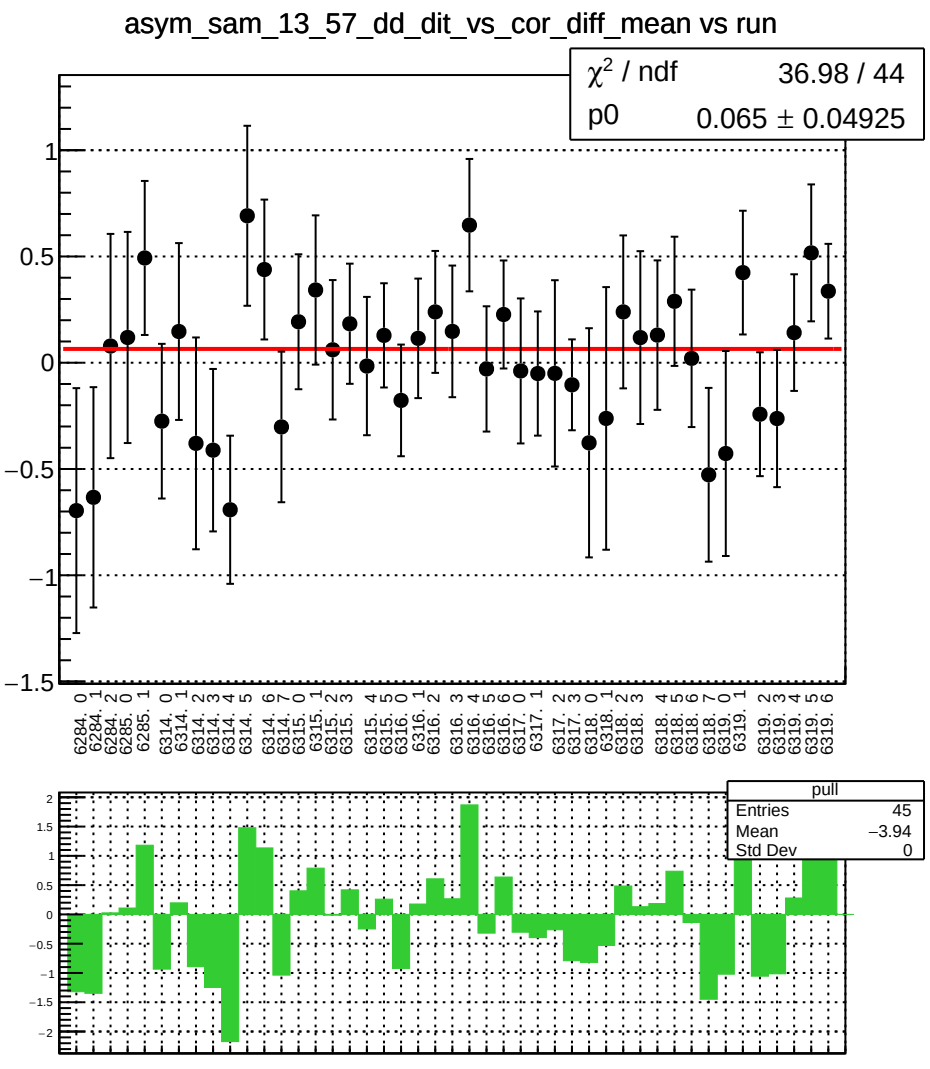

asym_sam_13_57_dd_mean vs run
χ² / ndf 45.75 / 44
p0 −751.3 ± 837.4
pull
Entries 45
Mean 133.8
Std Dev 0

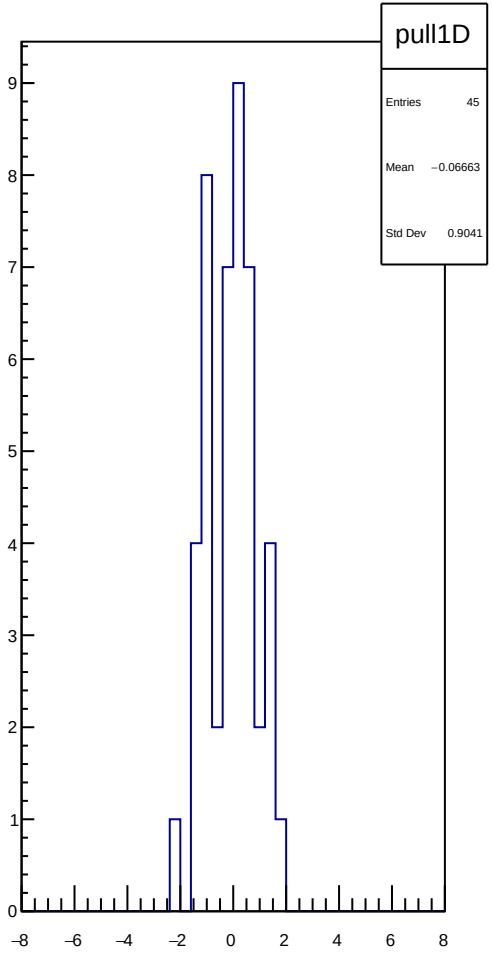

pull1D
Entries 45
Mean −0.01548
Std Dev 1.008

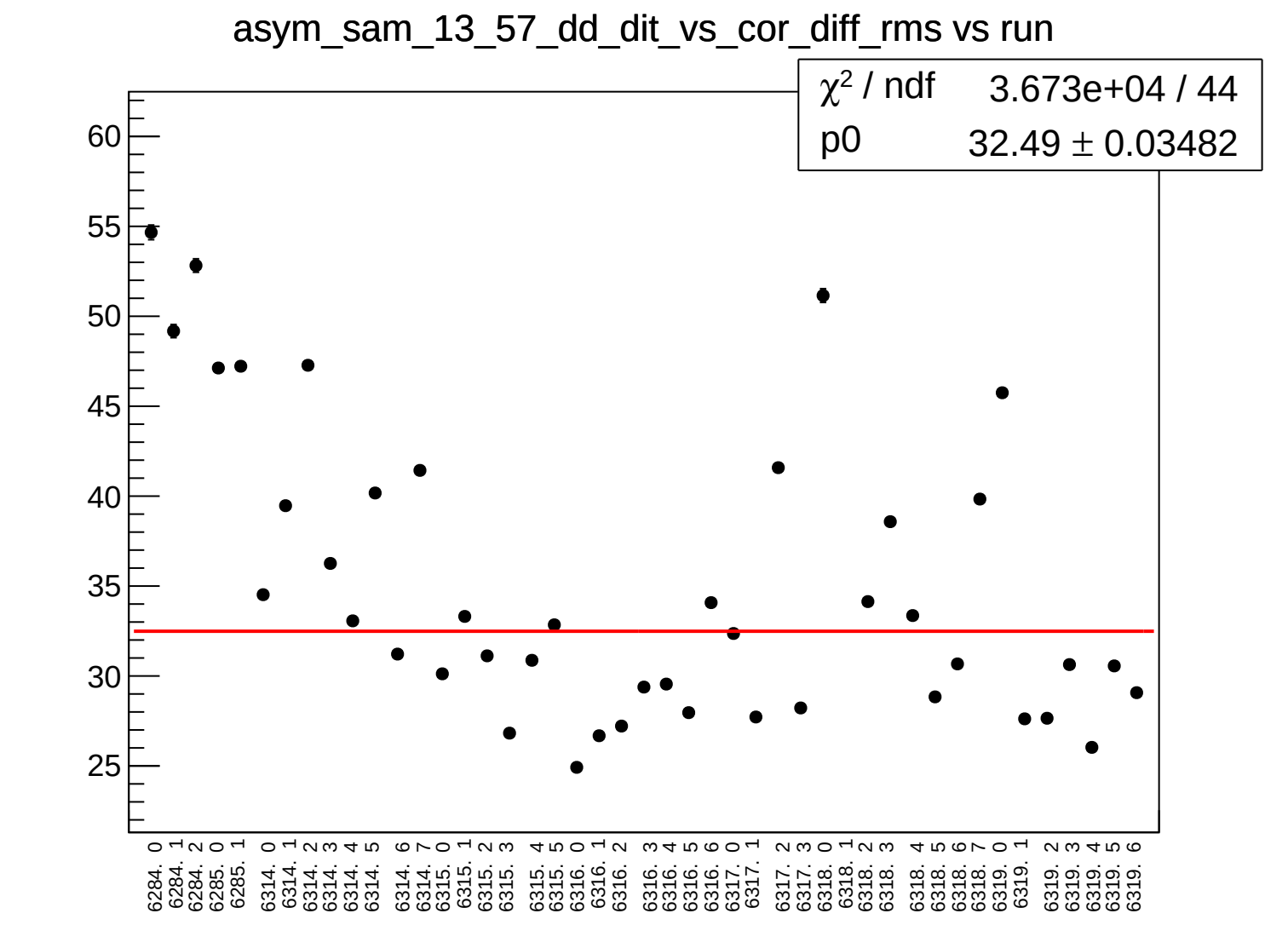

asym_sam_13_57_dd_rms vs run
χ² / ndf 7129 / 44
p0 561.7 ± 0.5921
800
750
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

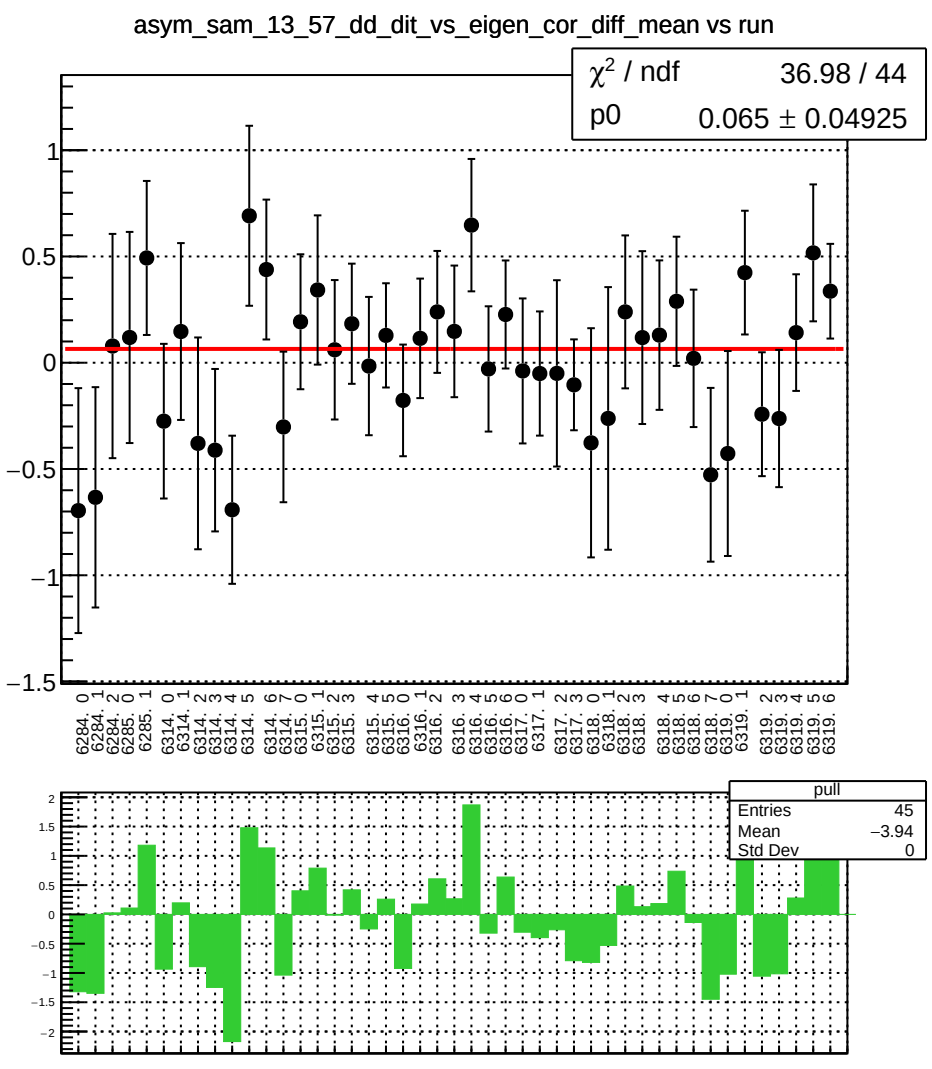

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.8 / 44
p0 −6.721e−15 ± 3.201e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −6.082
Std Dev 15.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.03254
Std Dev 0.8131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

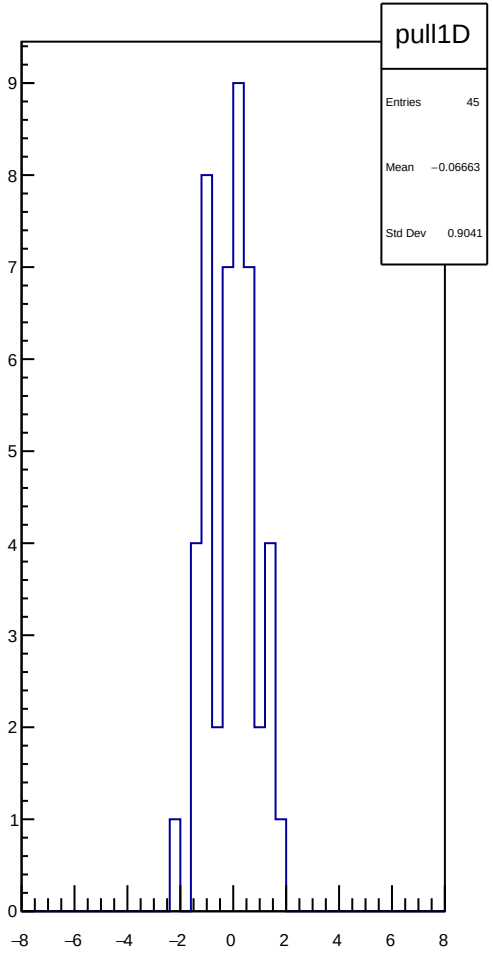

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.368e+05 / 44
p0 1.177e−11 ± 2.263e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

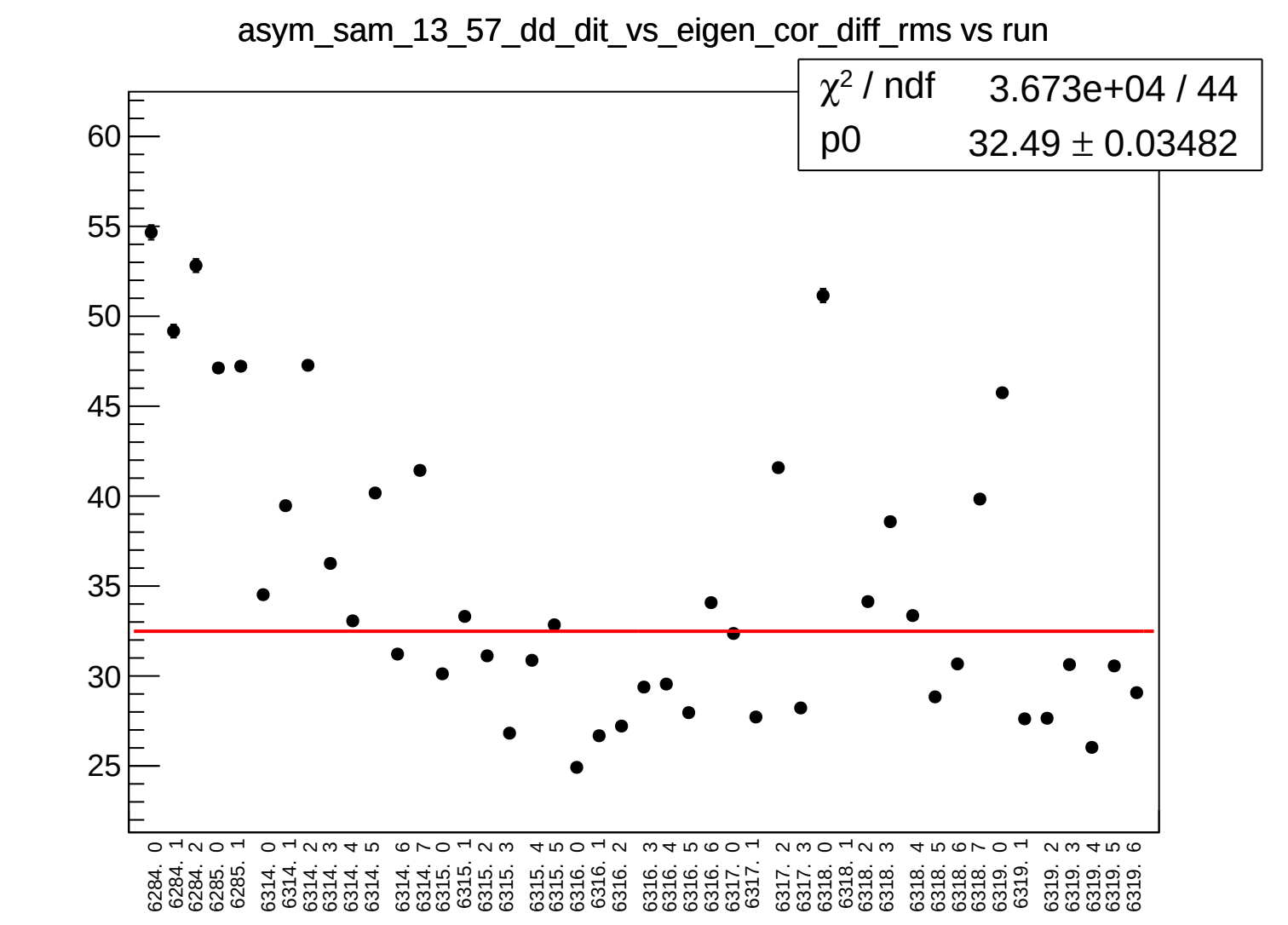

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.98 / 44
p0 0.065 ± 0.04925
pull
Entries 45
Mean −3.94
Std Dev 0

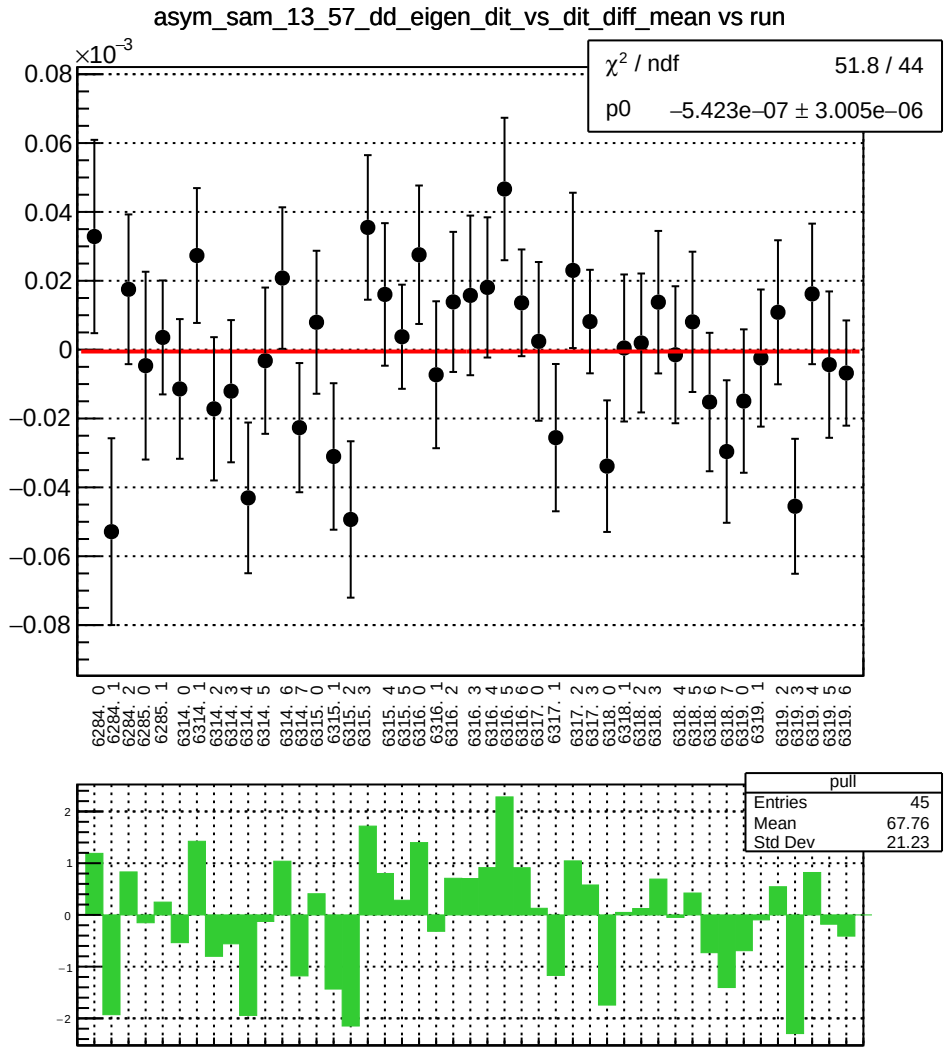

pull1D
Entries 45
Mean −0.06663
Std Dev 0.9041

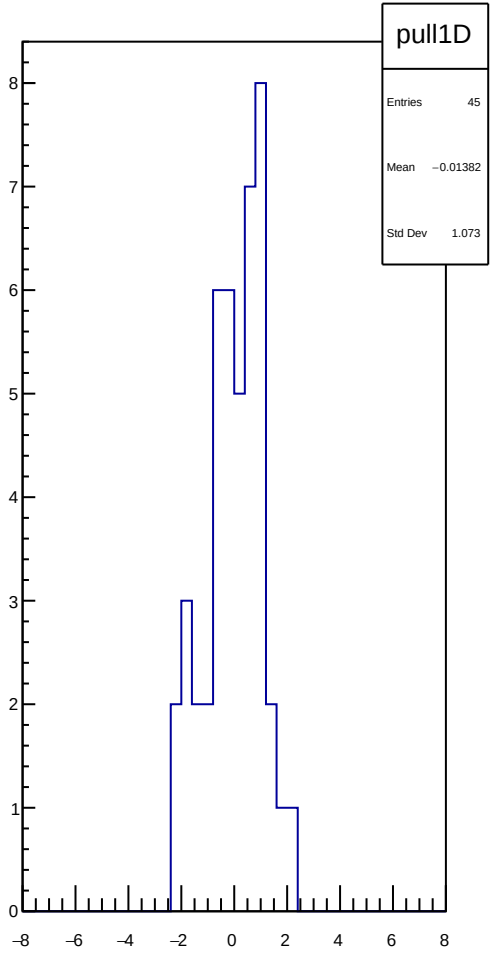

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.673e+04 / 44
p0 32.49 ± 0.03482
60
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

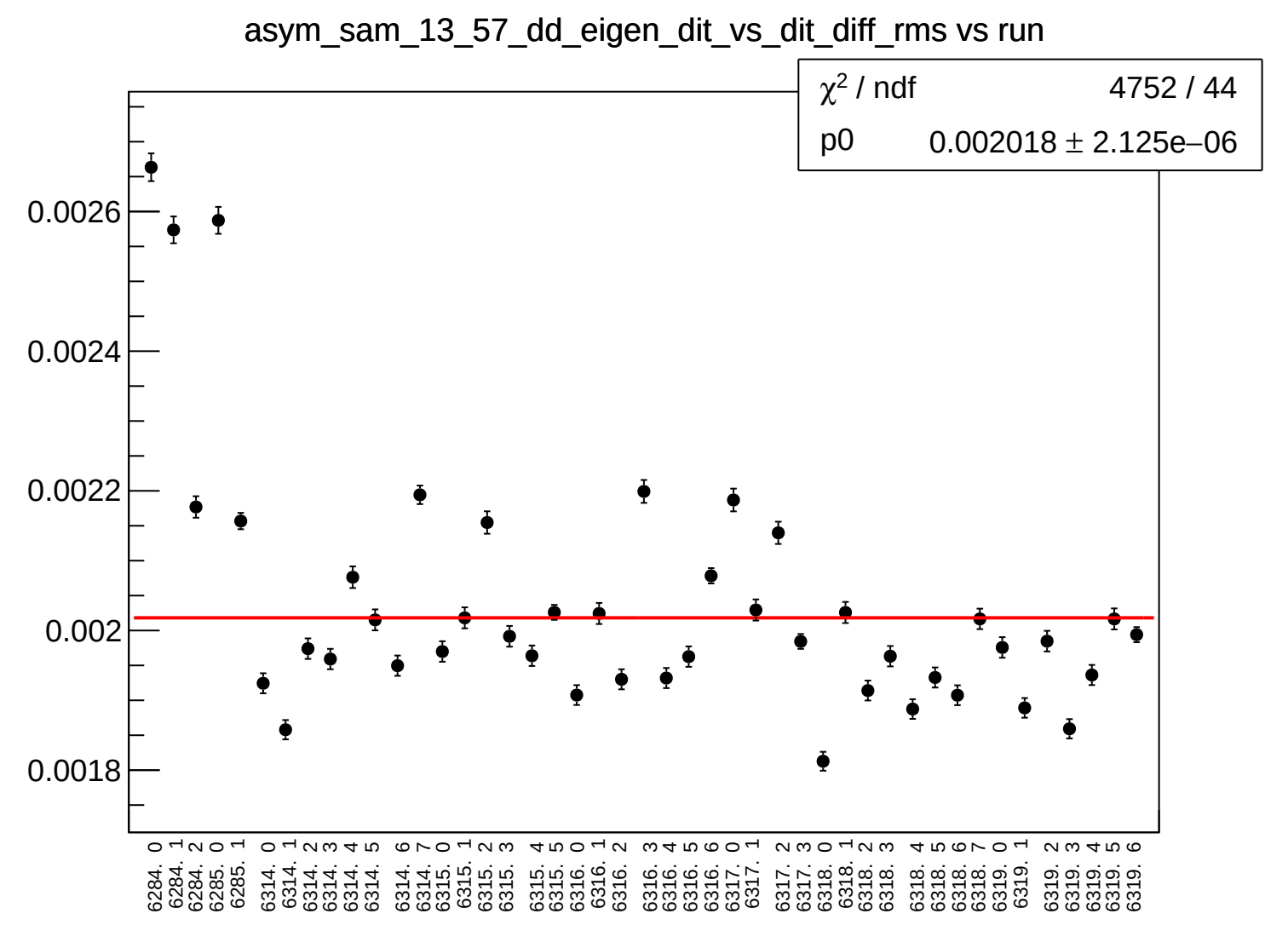

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.98 / 44
p0 0.065 ± 0.04925
pull
Entries 45
Mean −3.94
Std Dev 0


pull1D
Entries 45
Mean −0.06663
Std Dev 0.9041


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.673e+04 / 44
p0 32.49 ± 0.03482
60
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.8 / 44
p0 −5.423e−07 ± 3.005e−06
pull
Entries 45
Mean 67.76
Std Dev 21.23


pull1D
Entries 45
Mean −0.01382
Std Dev 1.073


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4752 / 44
p0 0.002018 ± 2.125e−06
0.0026
0.0024
0.0022
0.002
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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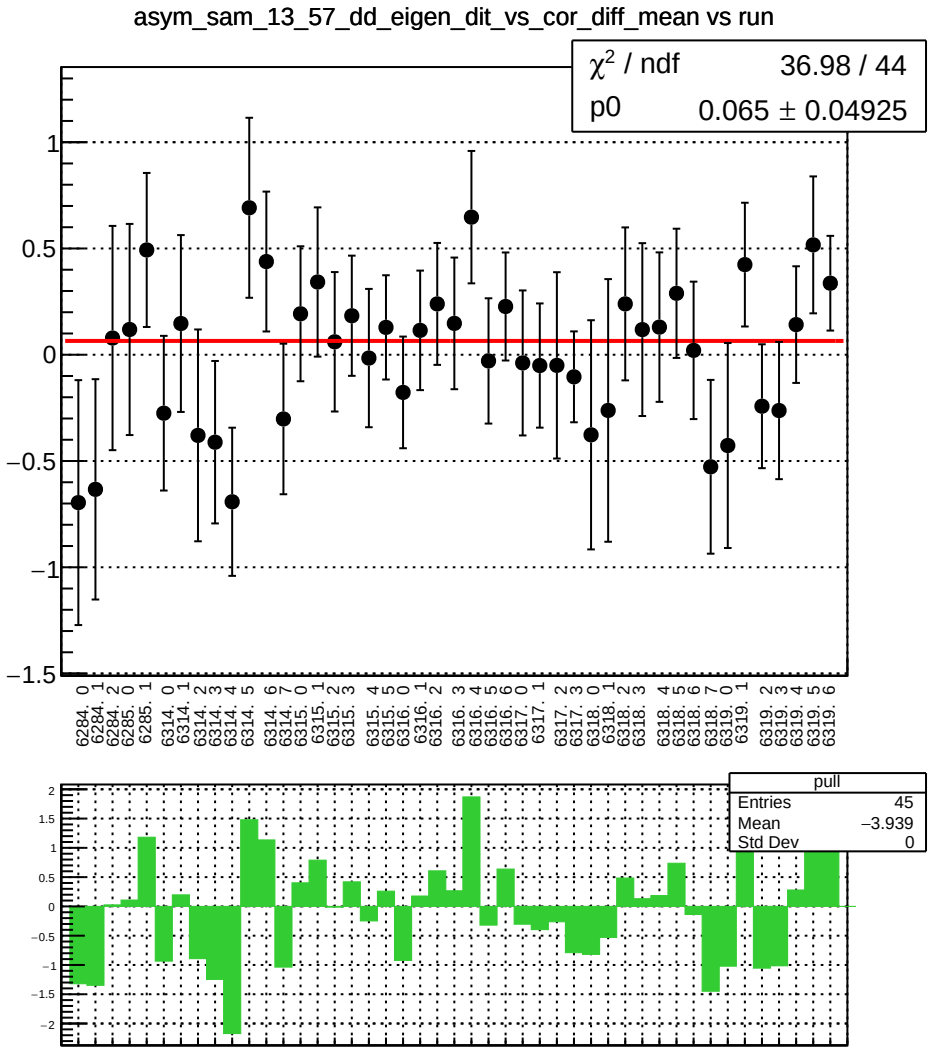
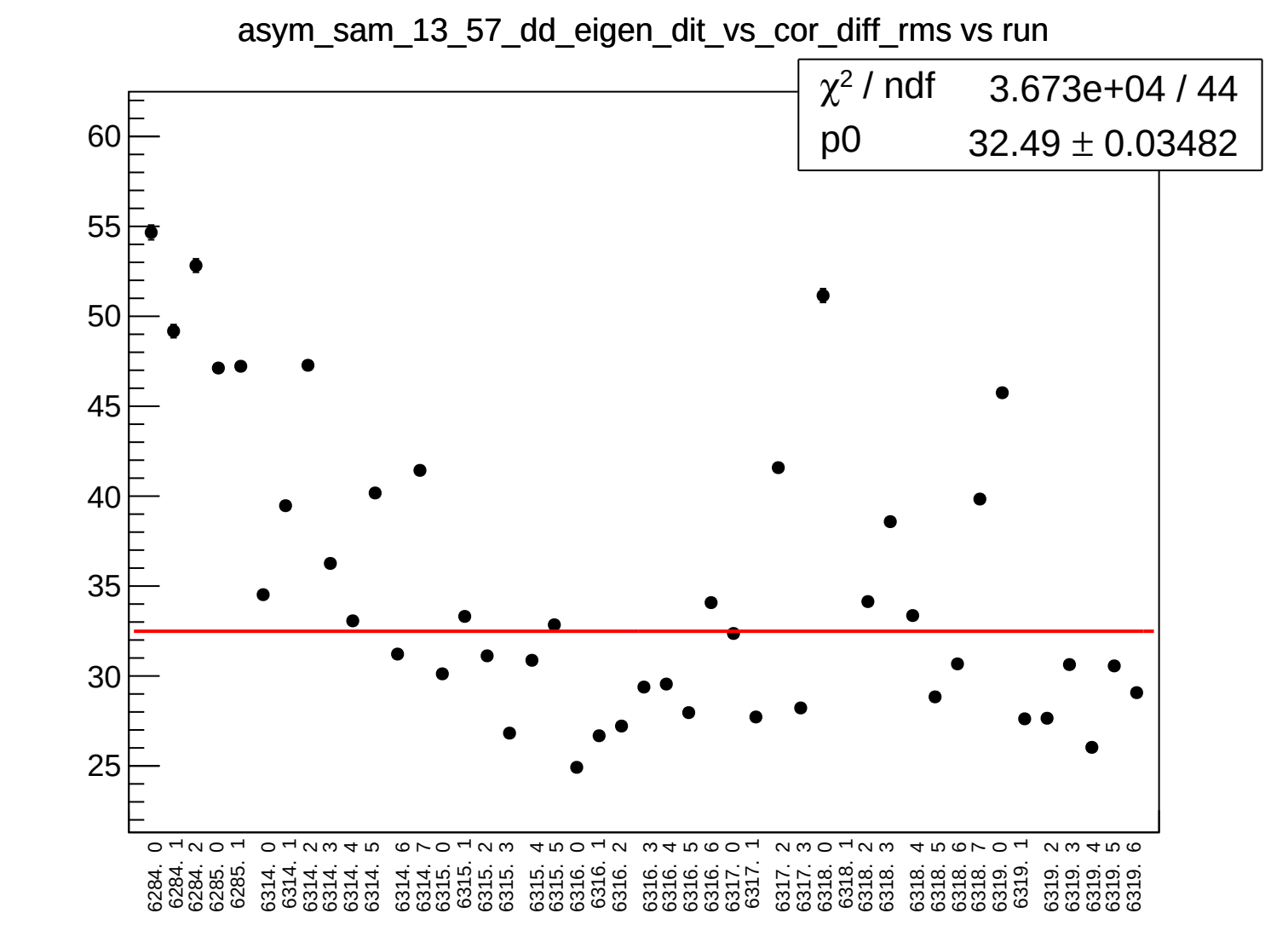
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.98 / 44
p0 0.065 ± 0.04925
pull
Entries 45
Mean −3.939
Std Dev 0
pull1D
Entries 45
Mean −0.06664
Std Dev 0.9041


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.673e+04 / 44
p0 32.49 ± 0.03482
60
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
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6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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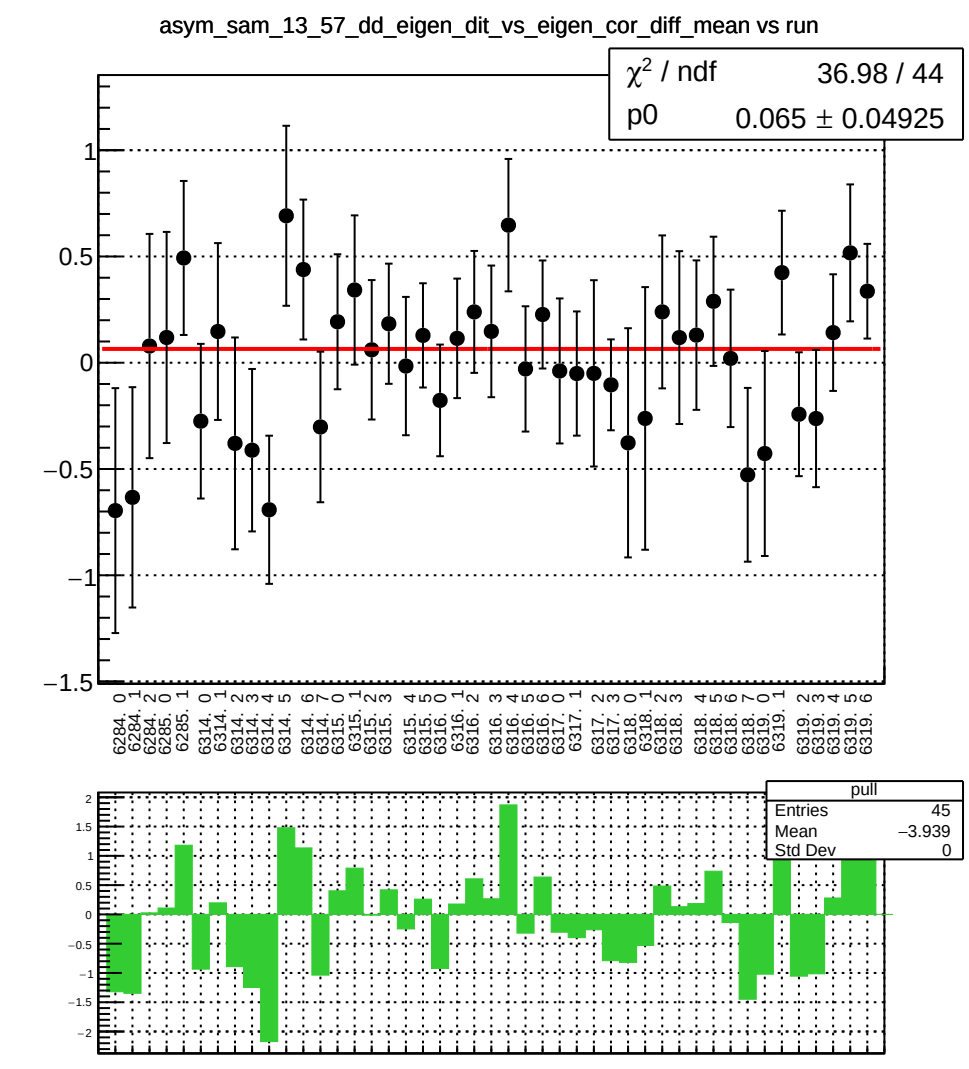
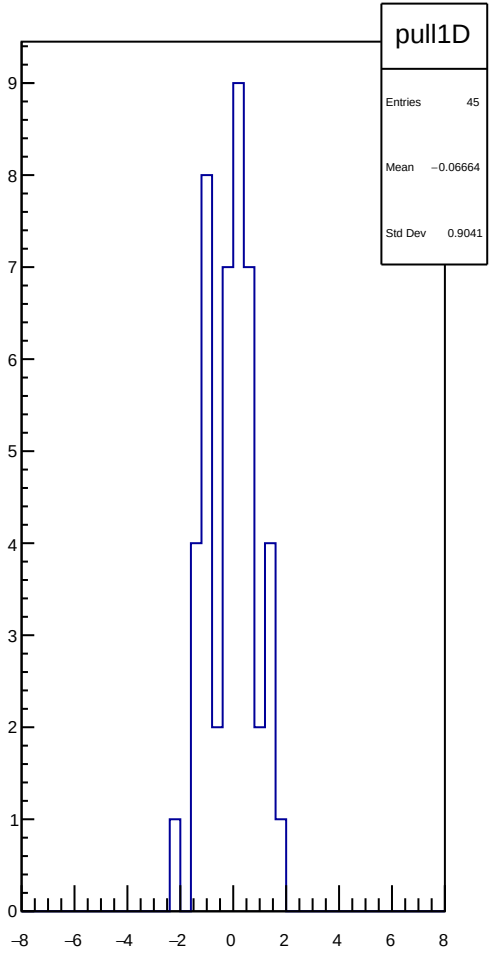
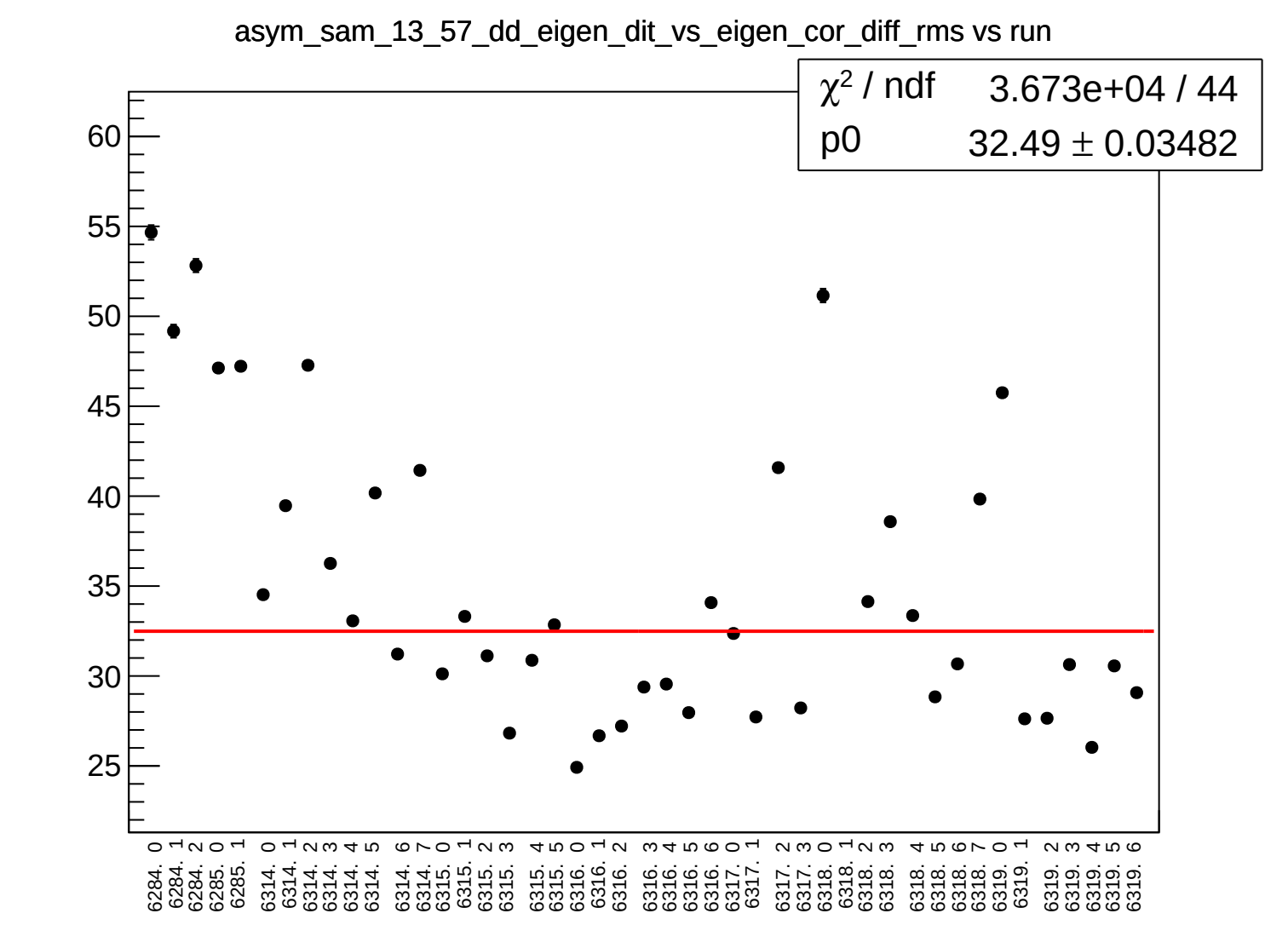
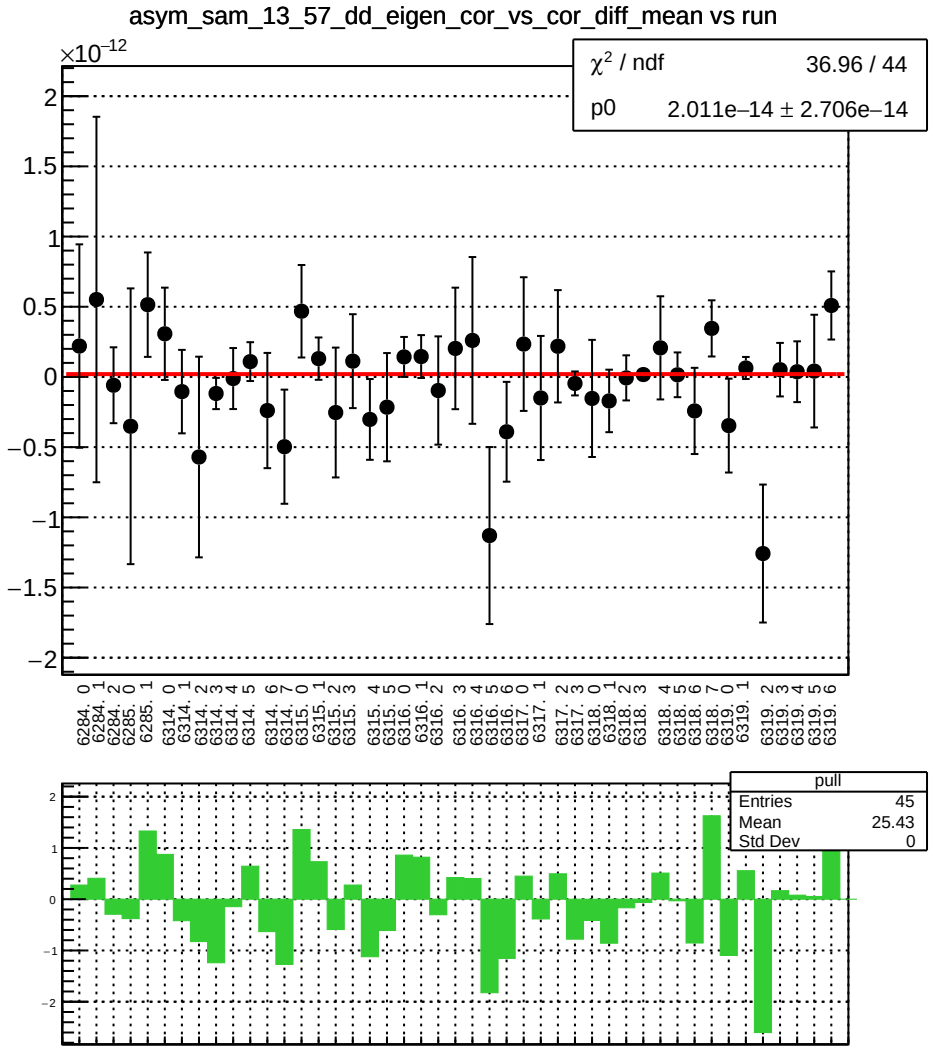
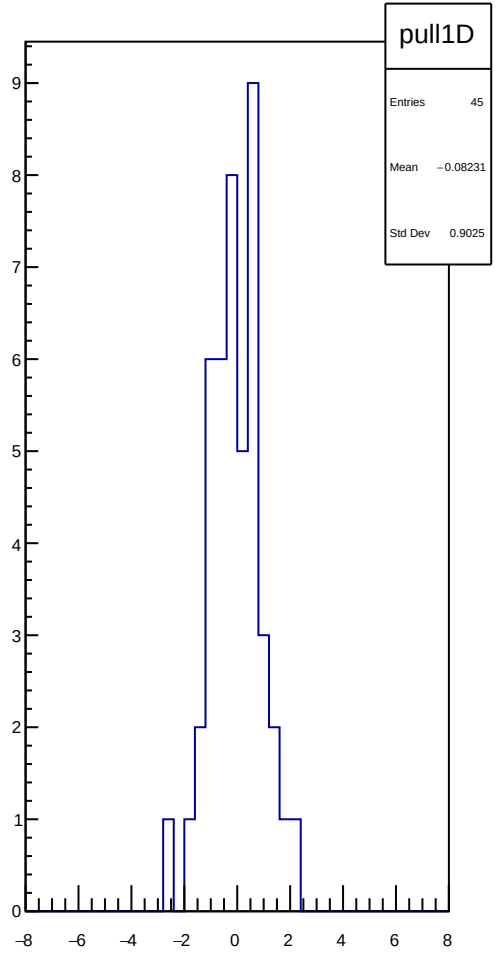
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

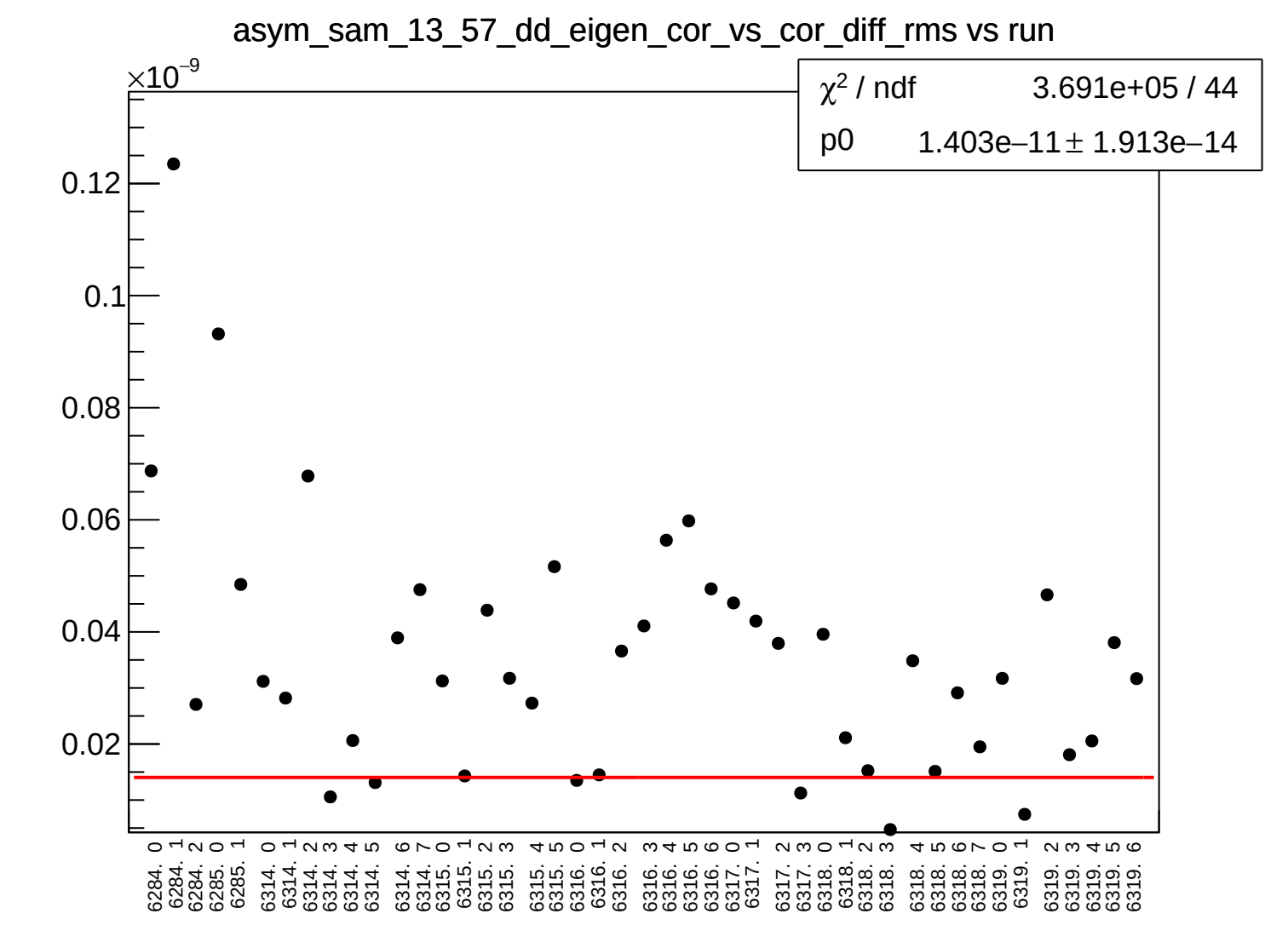

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.98 / 44
p0 0.065 ± 0.04925
pull
Entries 45
Mean −3.939
Std Dev 0

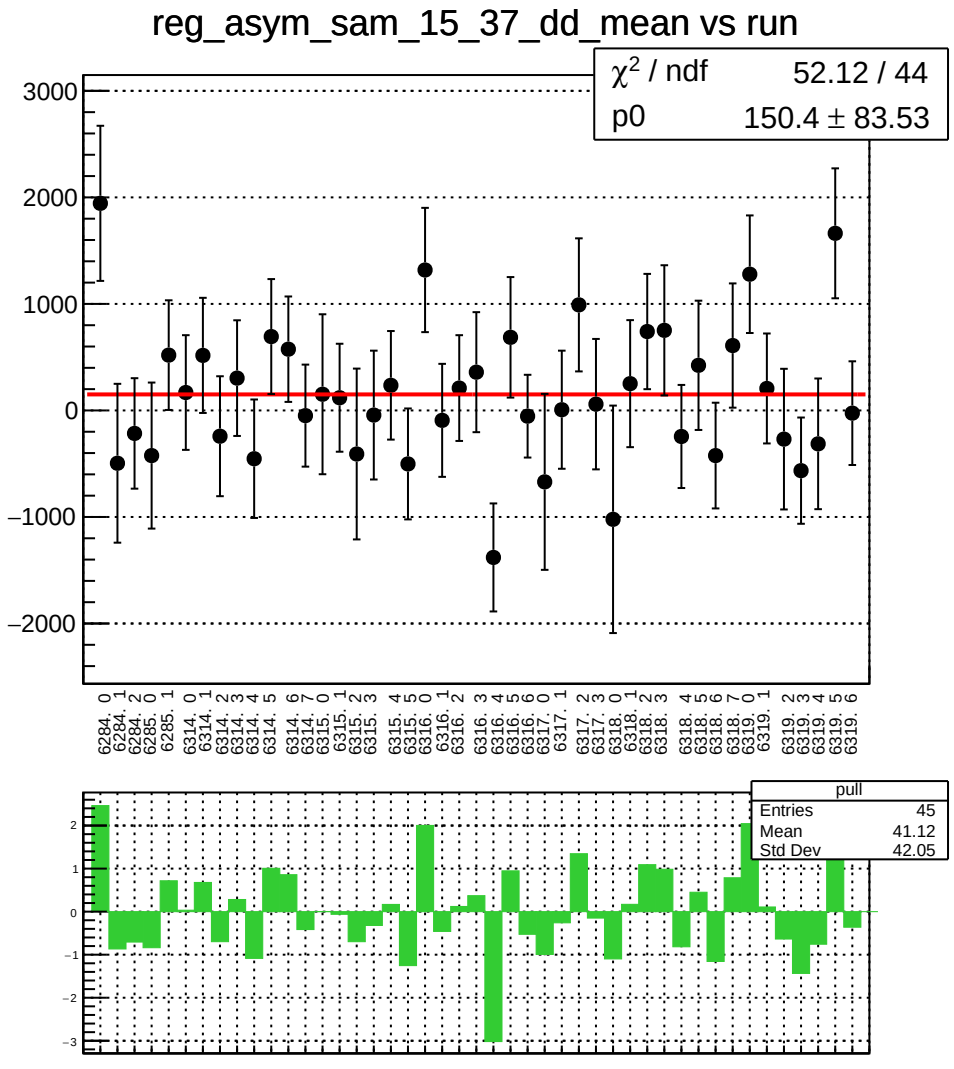

pull1D
Entries 45
Mean −0.06664
Std Dev 0.9041

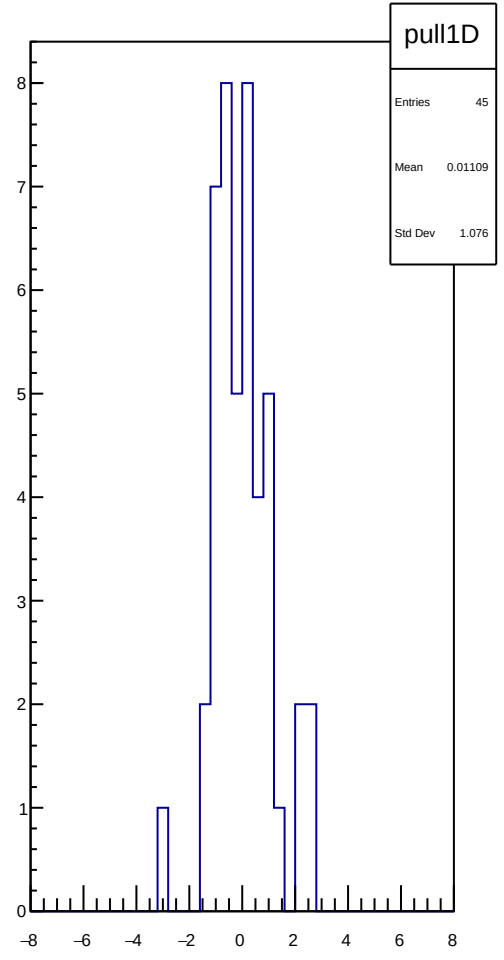

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.673e+04 / 44
p0 32.49 ± 0.03482
60
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

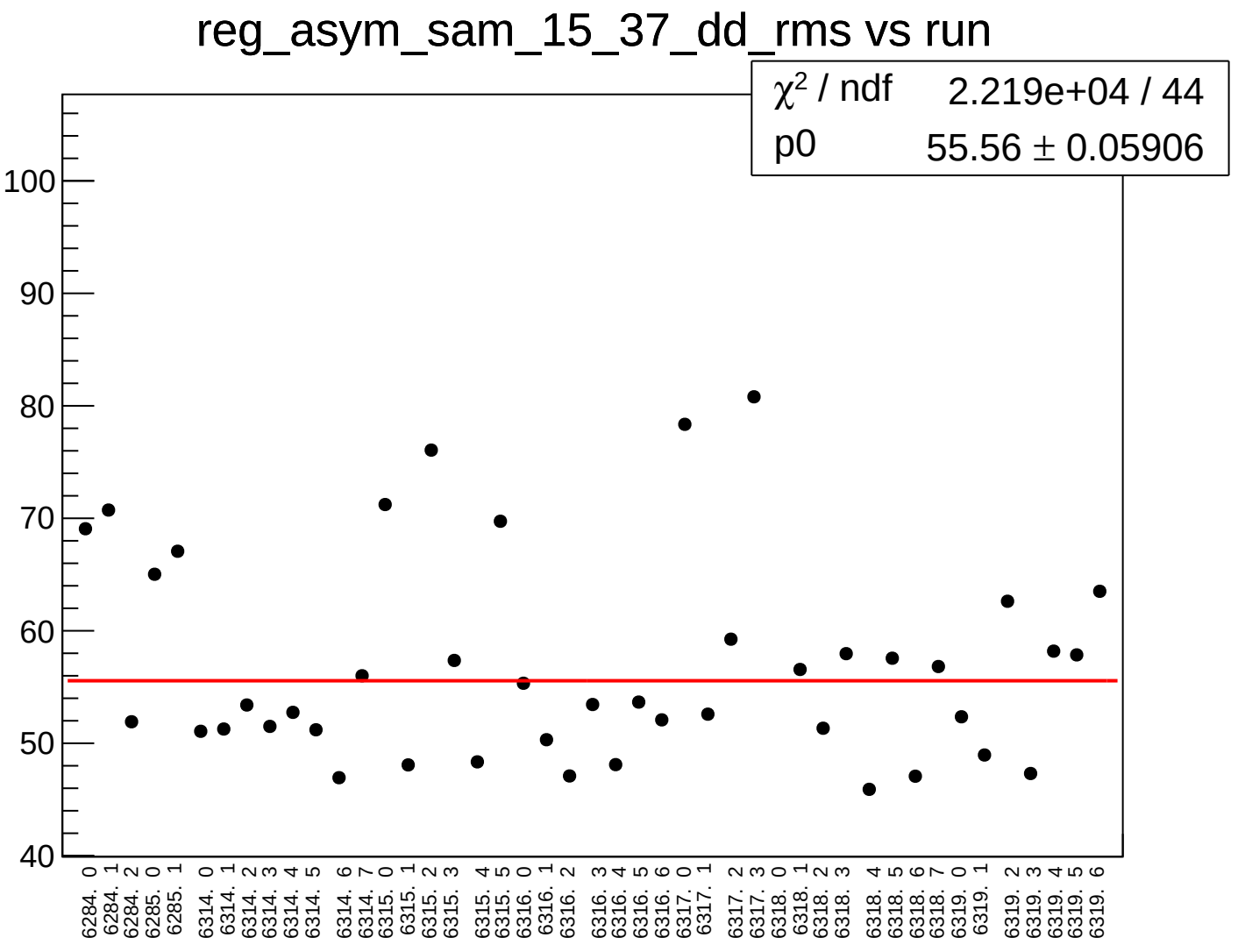

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.96 / 44
p0 2.011e−14 ± 2.706e−14
pull
Entries 45
Mean 25.43
Std Dev 0

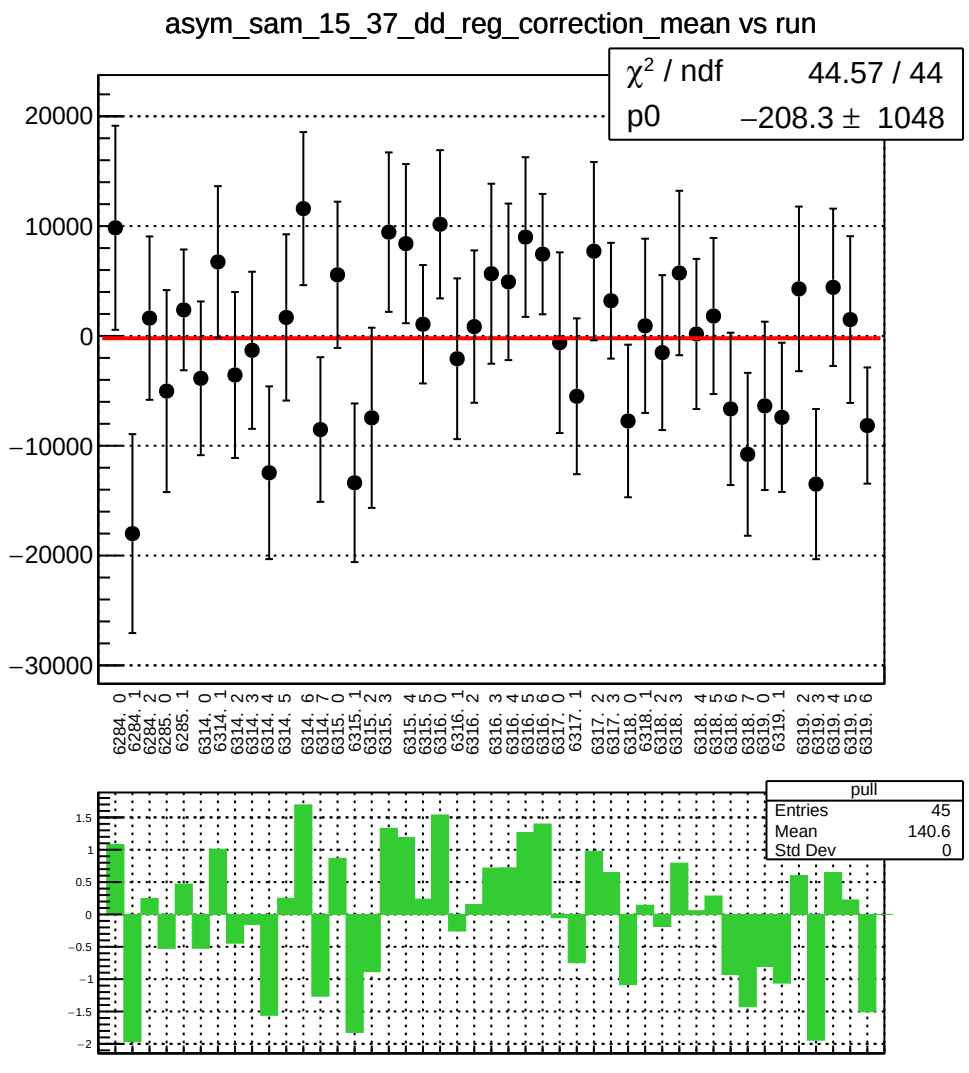

pull1D
Entries 45
Mean −0.08231
Std Dev 0.9025

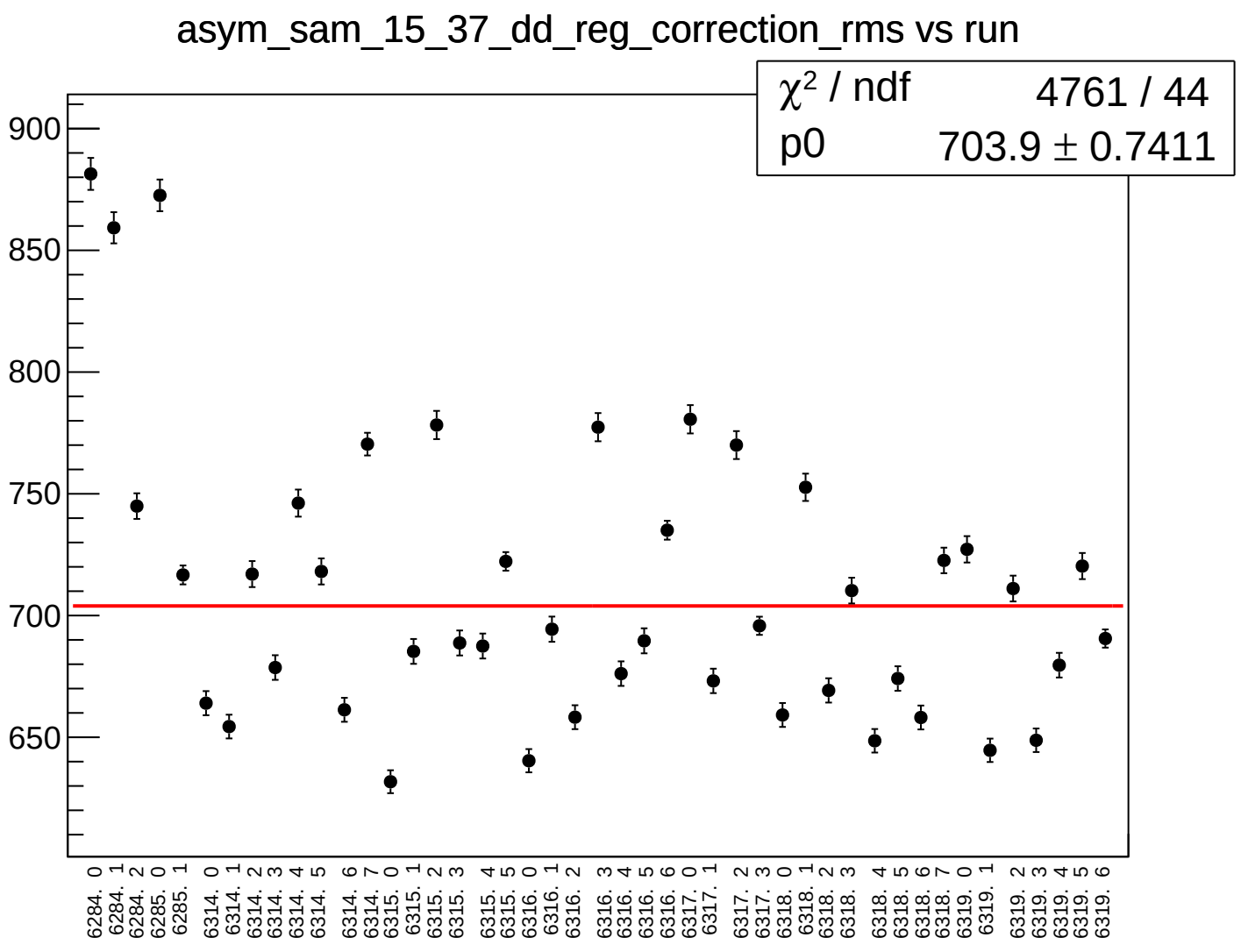

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.691e+05 / 44
p0 1.403e−11 ± 1.913e−14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

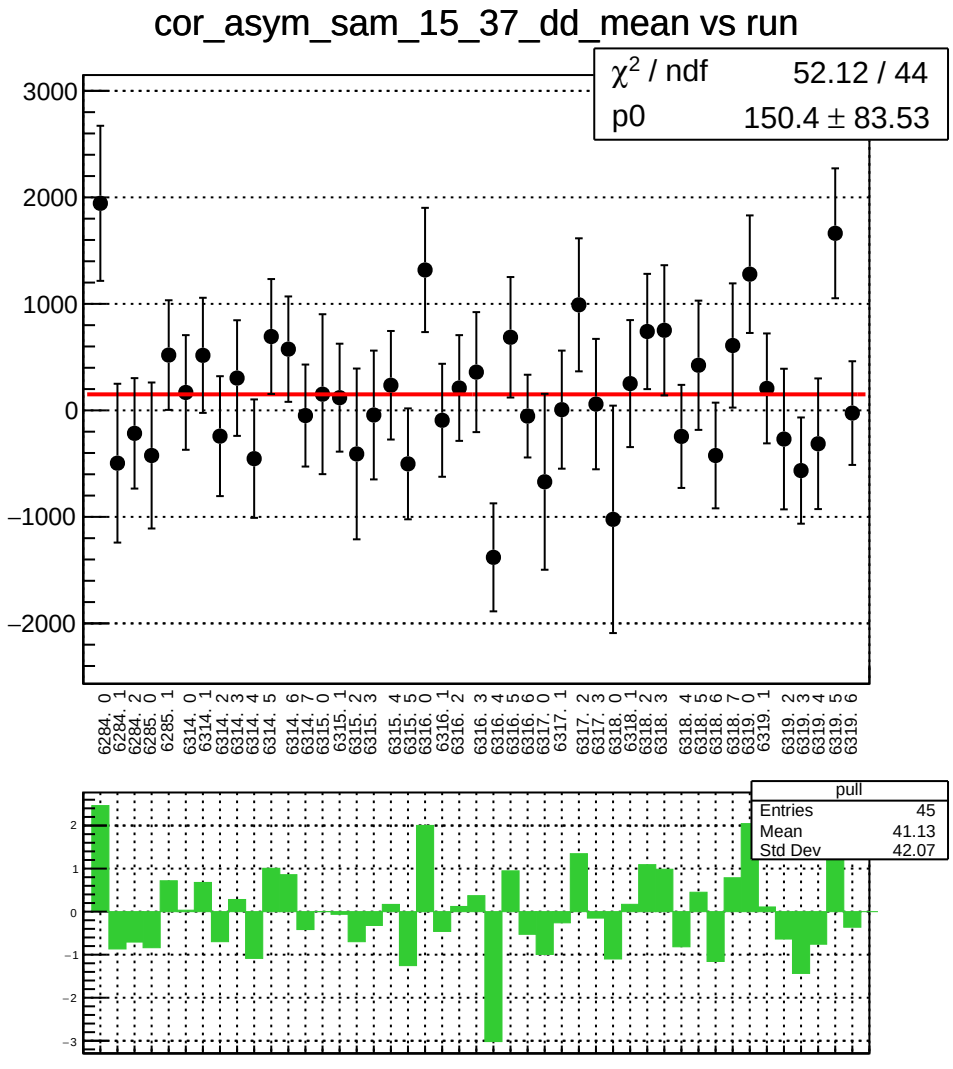

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 52.12 / 44
p0 150.4 ± 83.53
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 41.12
Std Dev 42.05
2
1
0
−1
−2
−3

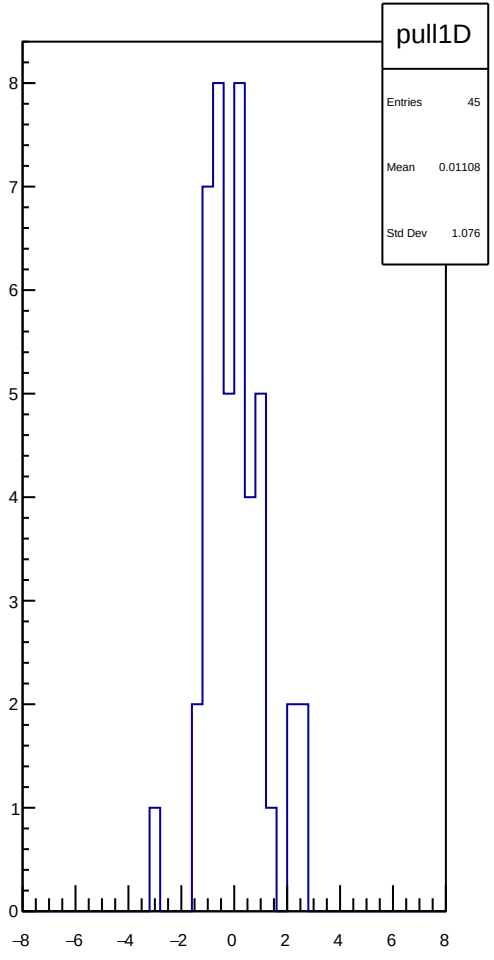

pull1D
Entries 45
Mean 0.01109
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.219e+04 / 44
p0 55.56 ± 0.05906
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 44.57 / 44
p0 −208.3 ± 1048
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01286
Std Dev 0.9952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4761 / 44
p0 703.9 ± 0.7411
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 52.12 / 44
p0 150.4 ± 83.53
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 41.13
Std Dev 42.07
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01108
Std Dev 1.076
8
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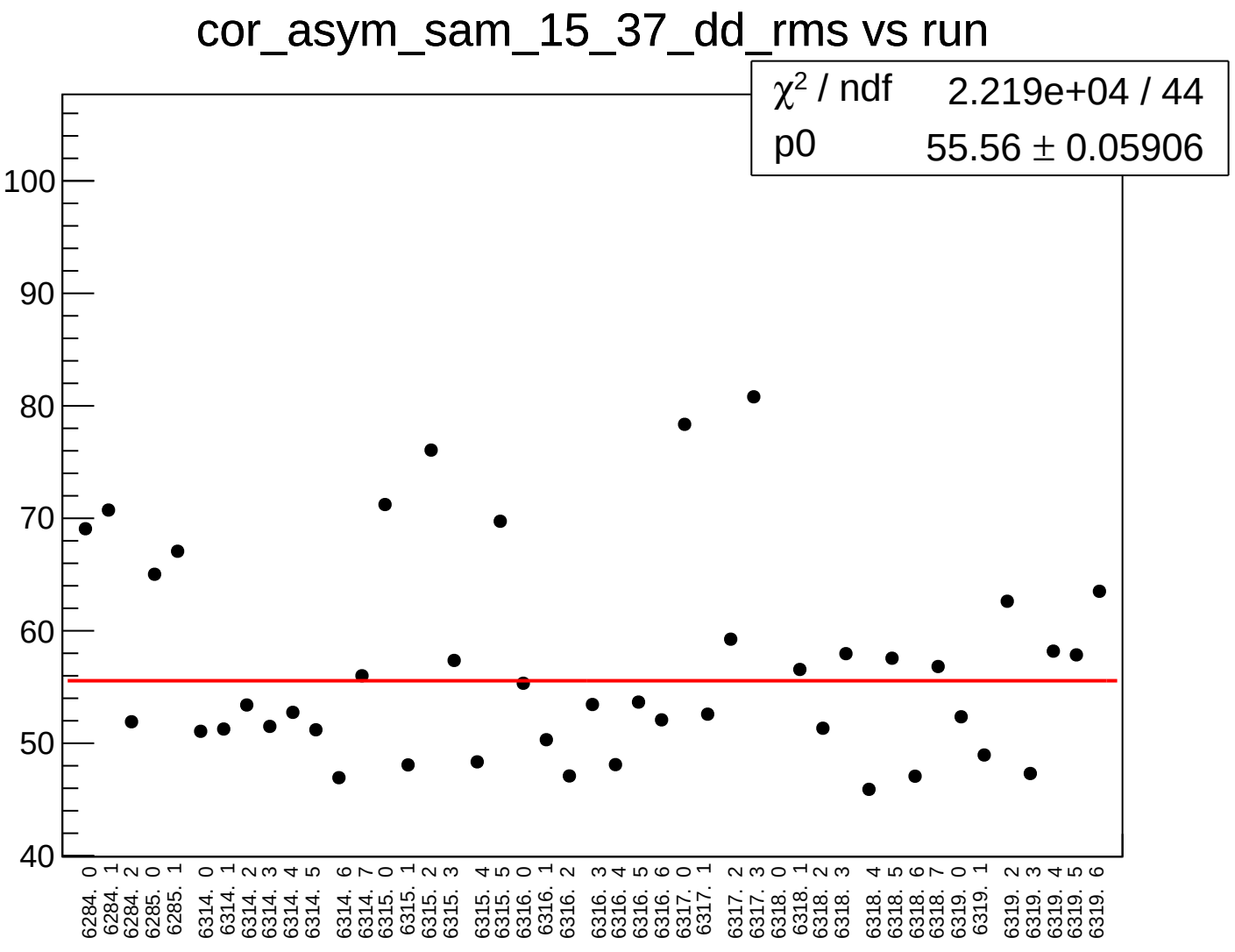
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.219e+04 / 44
p0 55.56 ± 0.05906
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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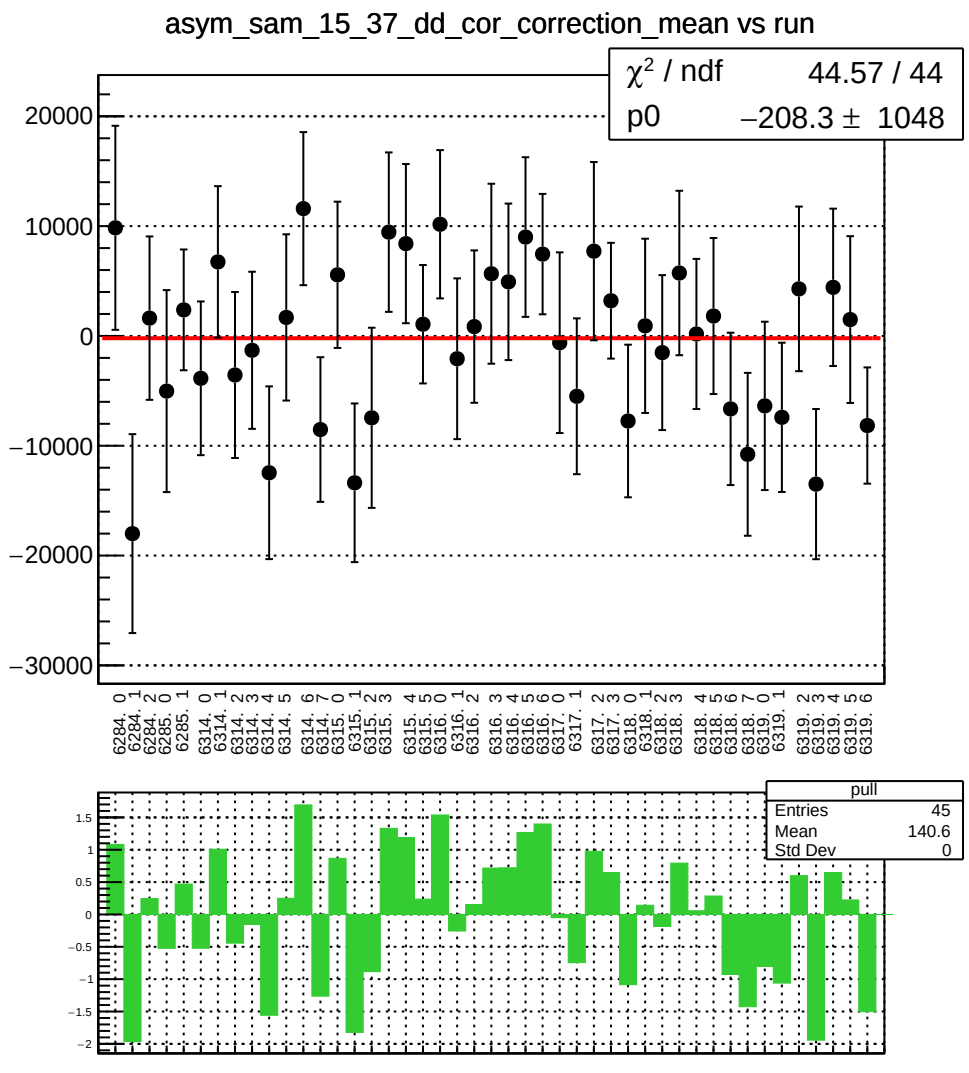
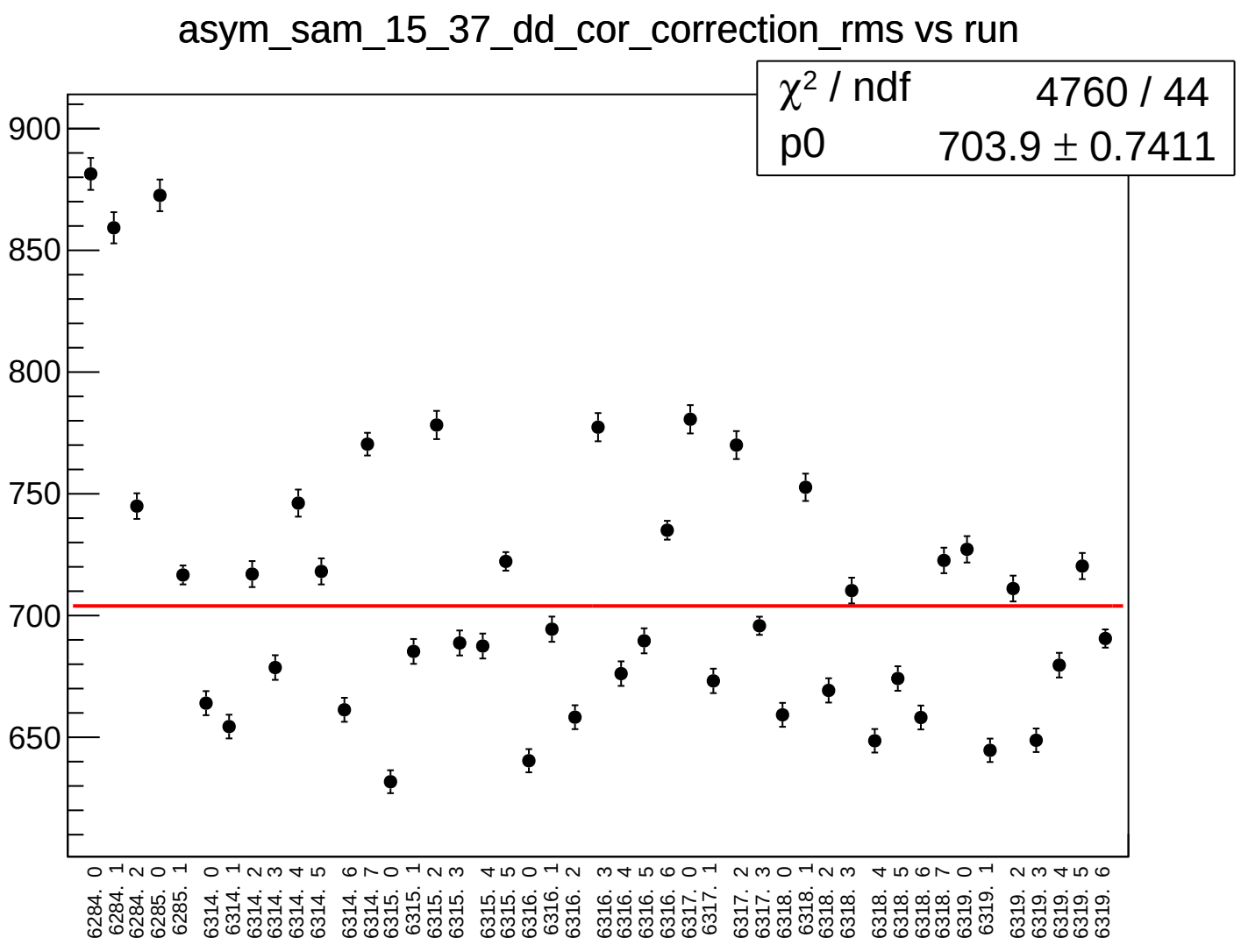
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 44.57 / 44
p0 −208.3 ± 1048
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01286
Std Dev 0.9952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4760 / 44
p0 703.9 ± 0.7411
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
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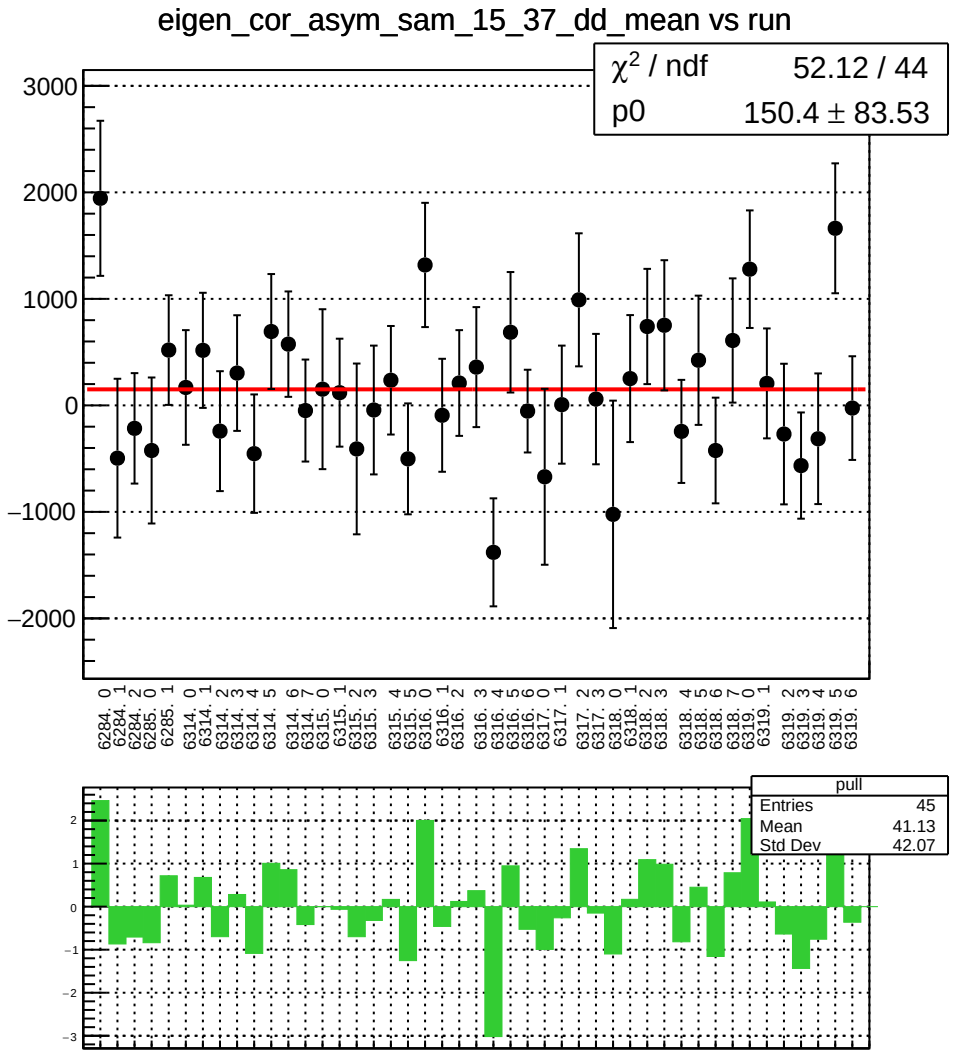
6319. 5
6319. 6


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 52.12 / 44
p0 150.4 ± 83.53
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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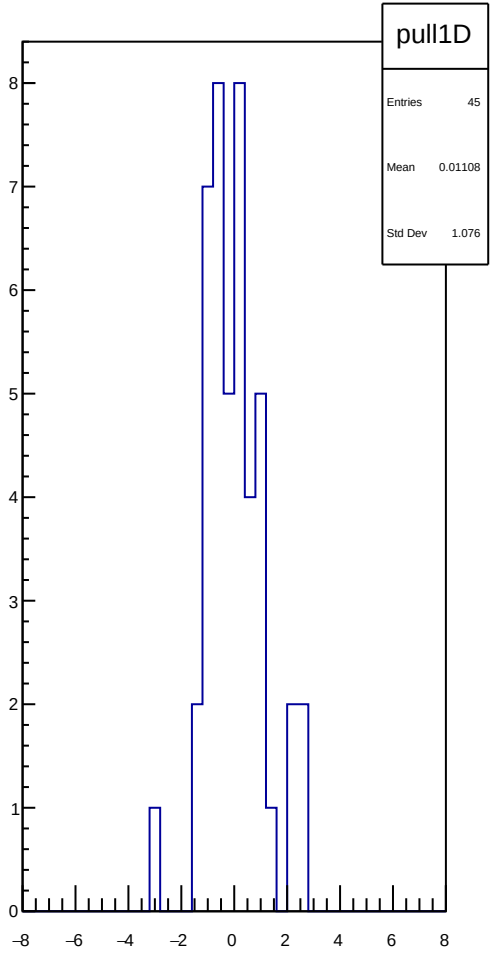
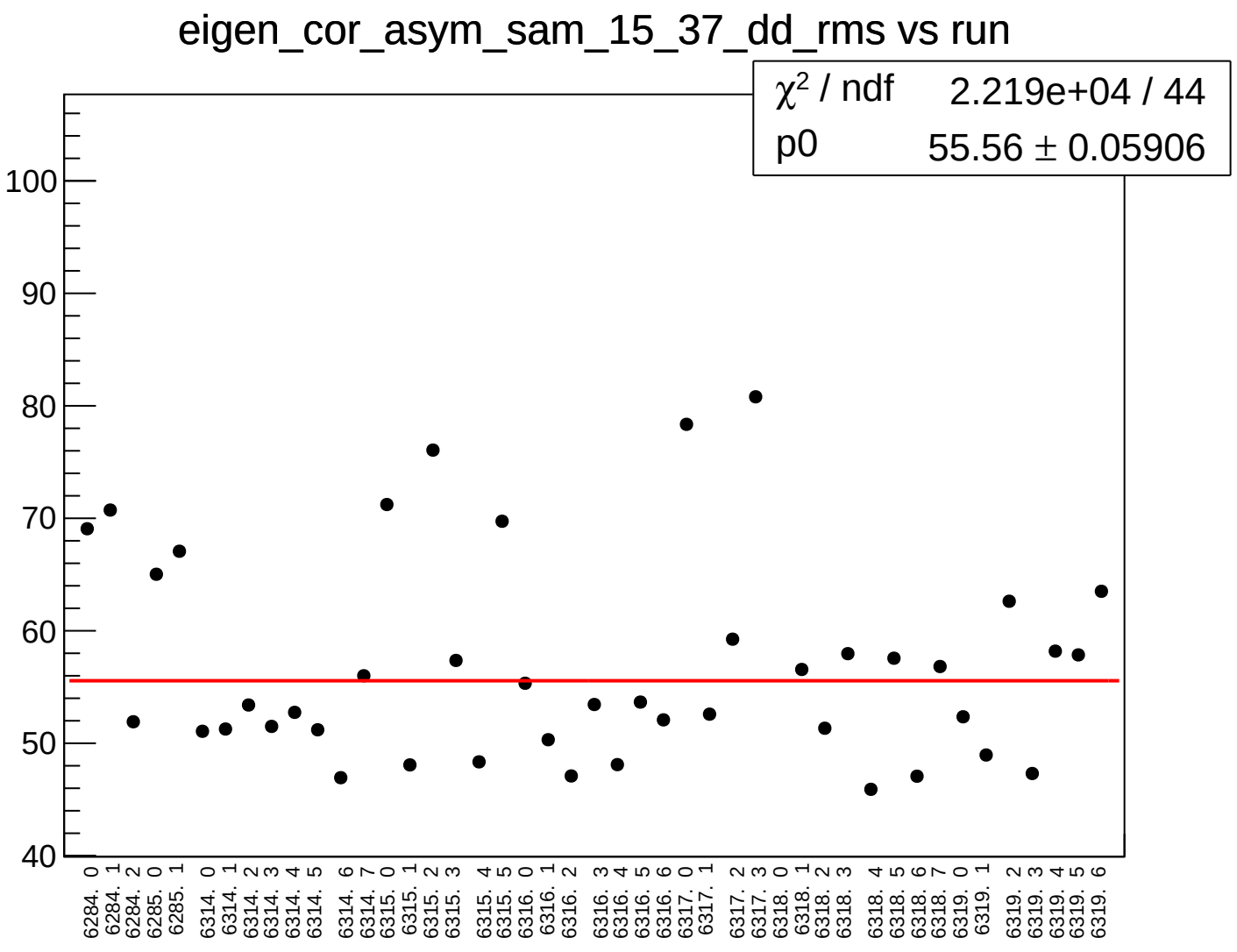
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 41.13
Std Dev 42.07
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01108
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.219e+04 / 44
p0 55.56 ± 0.05906
100
90
80
70
60
50
40
6284. 0
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6284. 2
6285. 0
6285. 1
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6317. 2
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6318. 2
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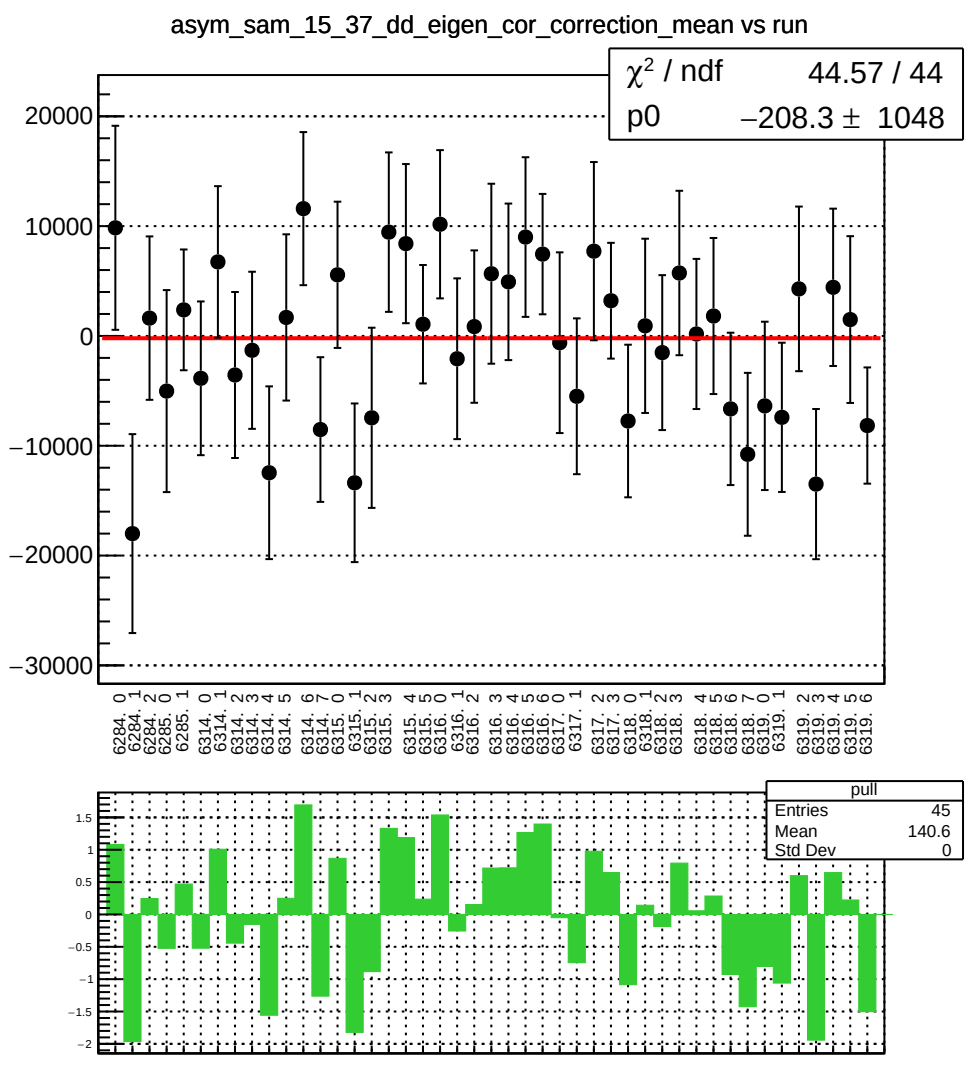
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.57 / 44
p0 −208.3 ± 1048
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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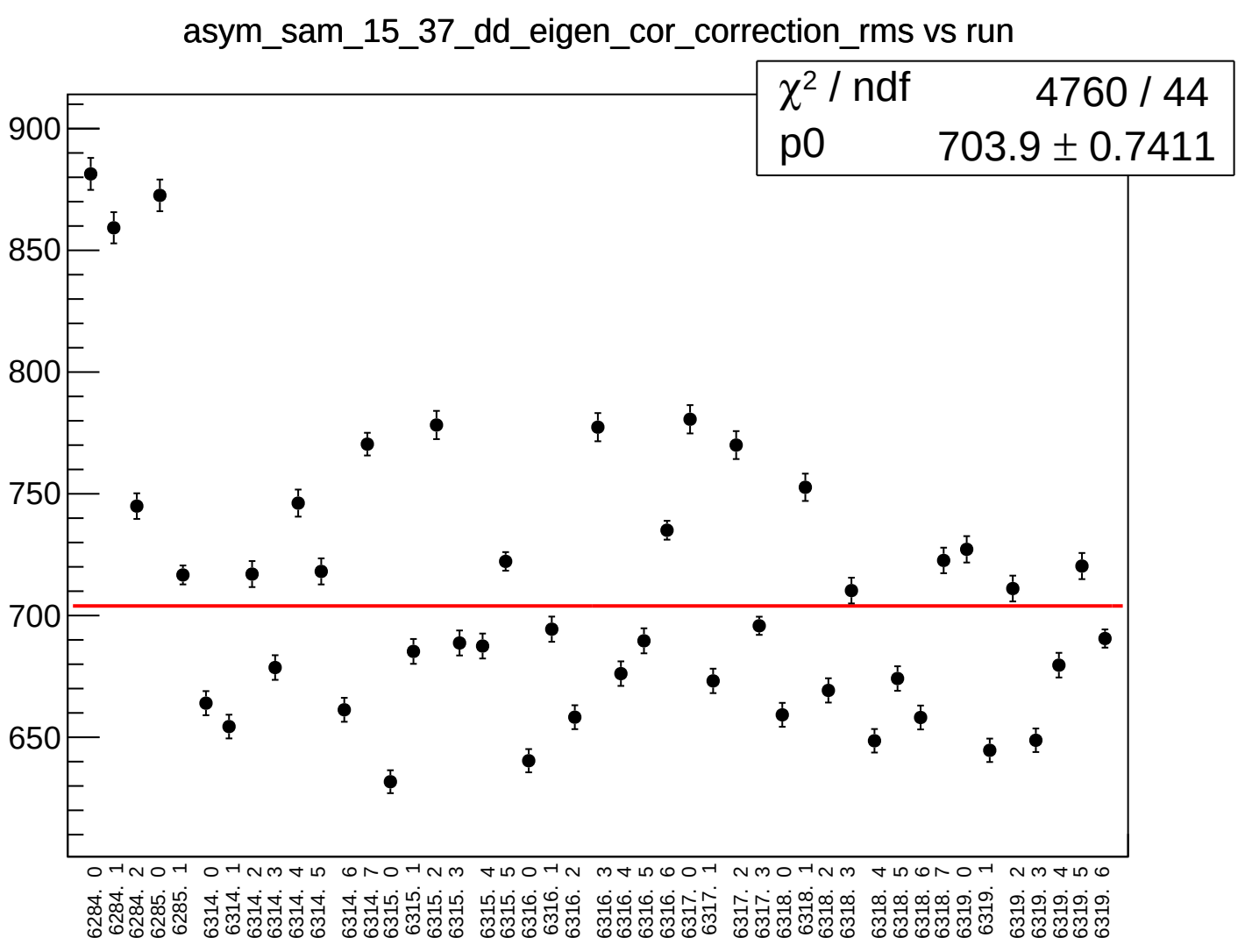
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01286
Std Dev 0.9952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4760 / 44
p0 703.9 ± 0.7411
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 2
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6318. 4
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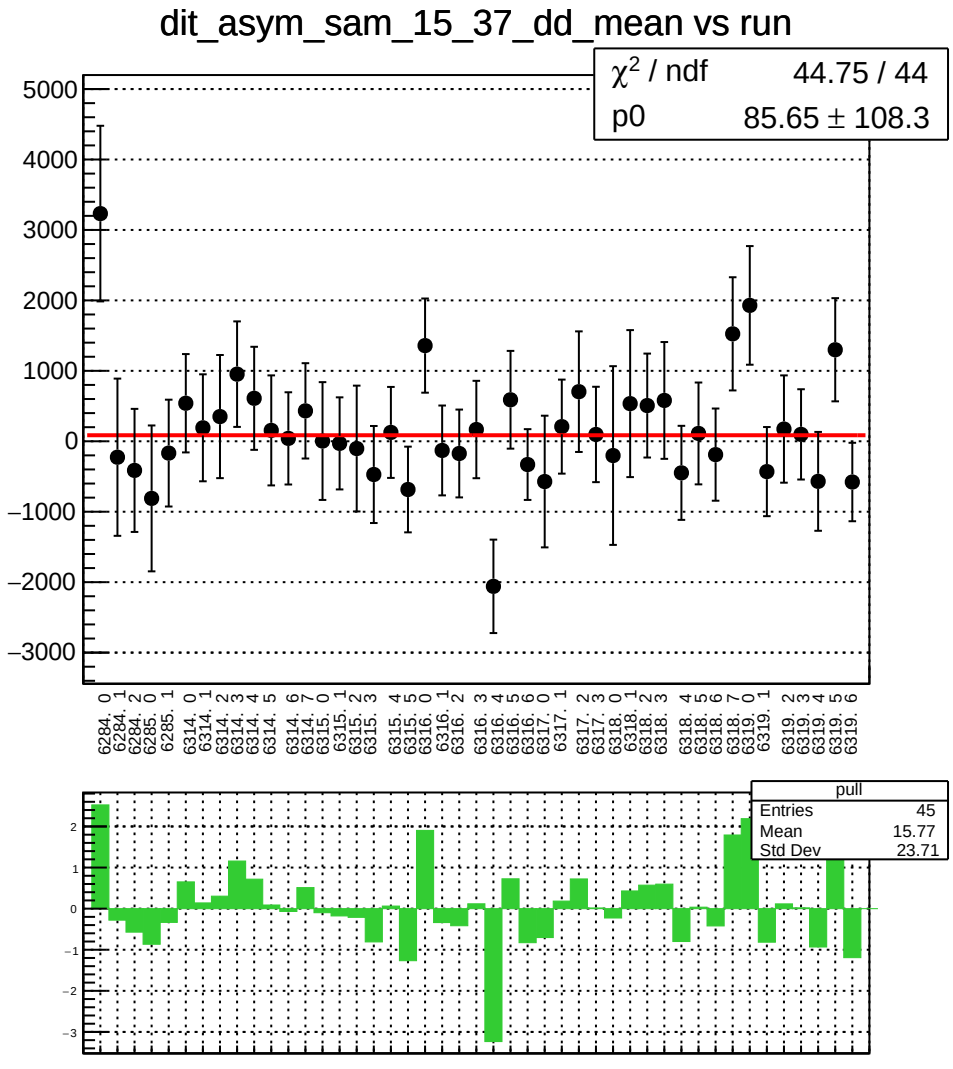
dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 44.75 / 44
p0 85.65 ± 108.3
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
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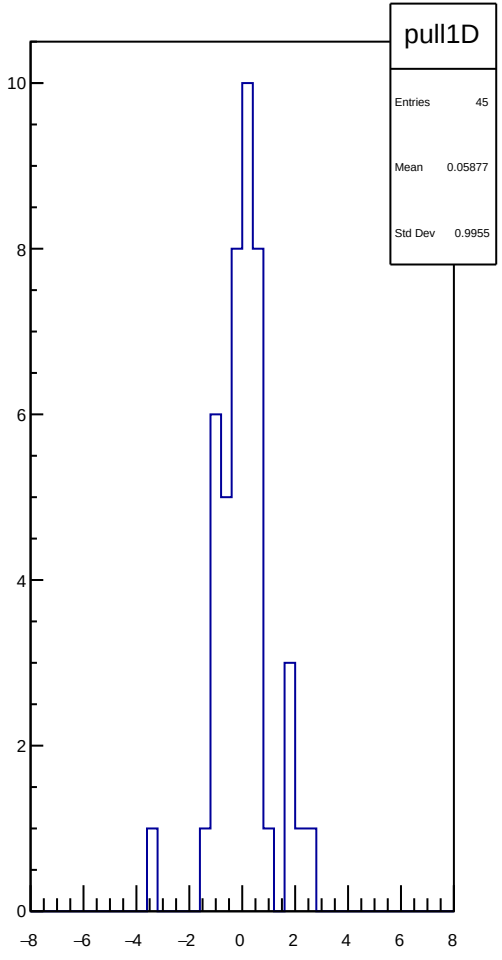
6319. 6
pull
Entries 45
Mean 15.77
Std Dev 23.71
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.05877
Std Dev 0.9955
10
8
6
4
2
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−8
−6
−4
−2
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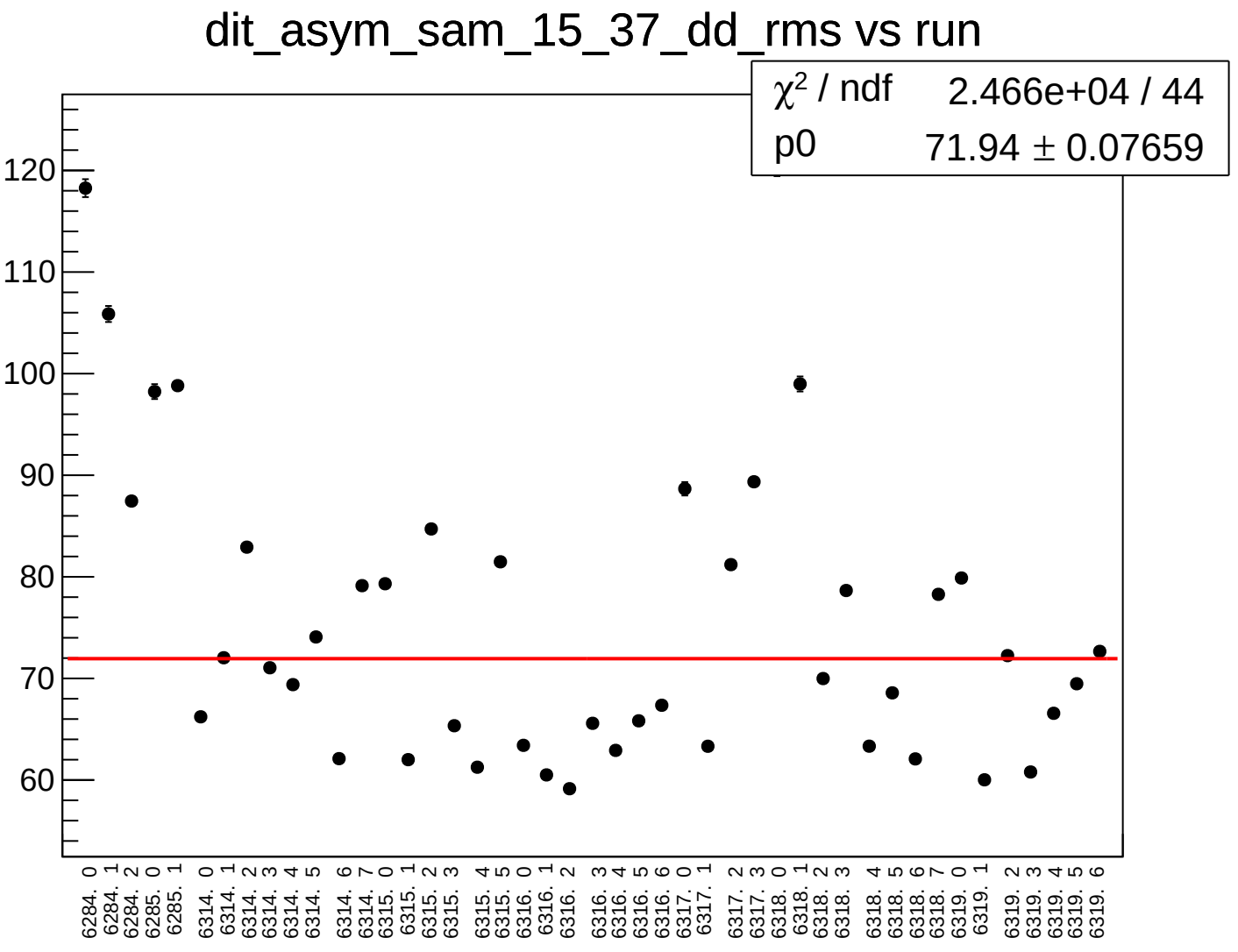
2
4
6
8


dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.466e+04 / 44
p0 71.94 ± 0.07659
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 3
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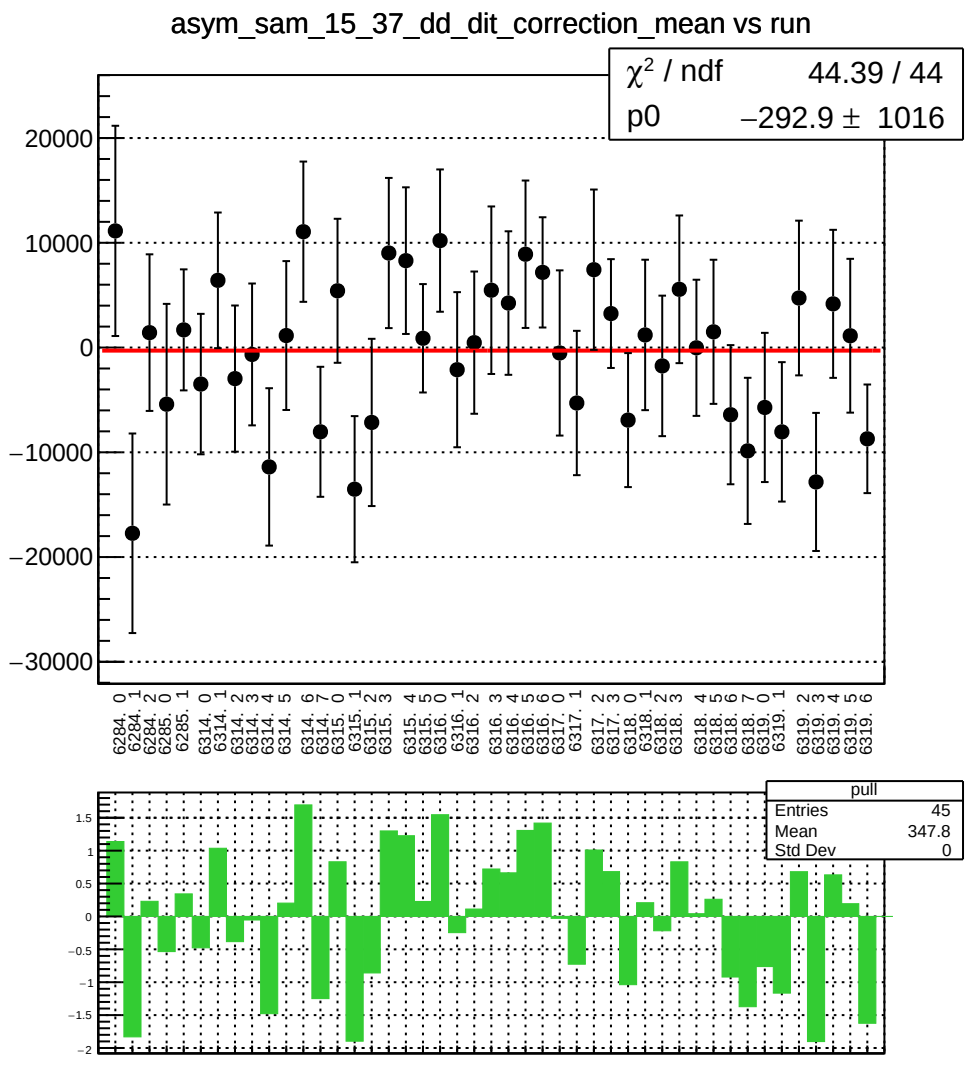
6319. 5
6319. 6


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 44.39 / 44
p0 −292.9 ± 1016
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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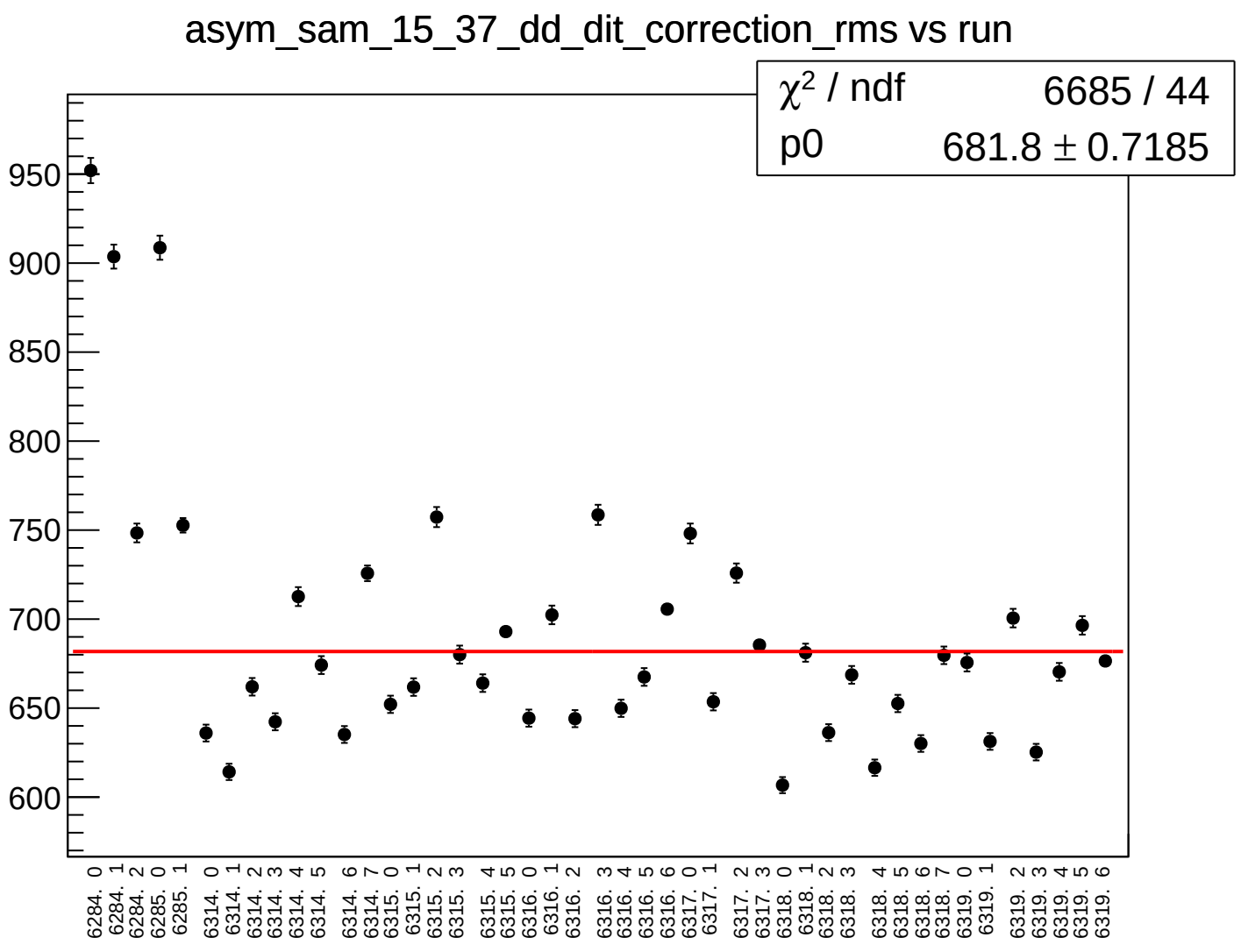
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 347.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005011
Std Dev 0.9932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 6685 / 44
p0 681.8 ± 0.7185
950
900
850
800
750
700
650
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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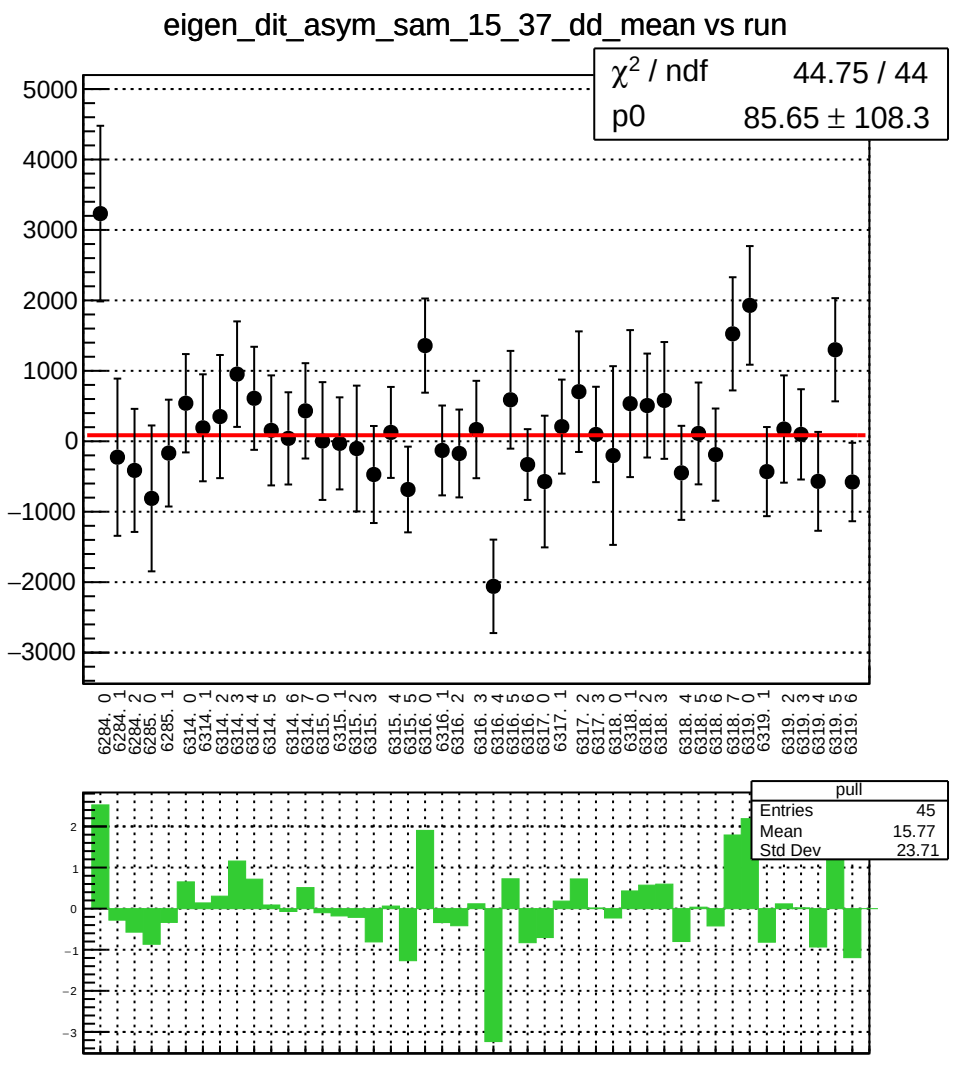
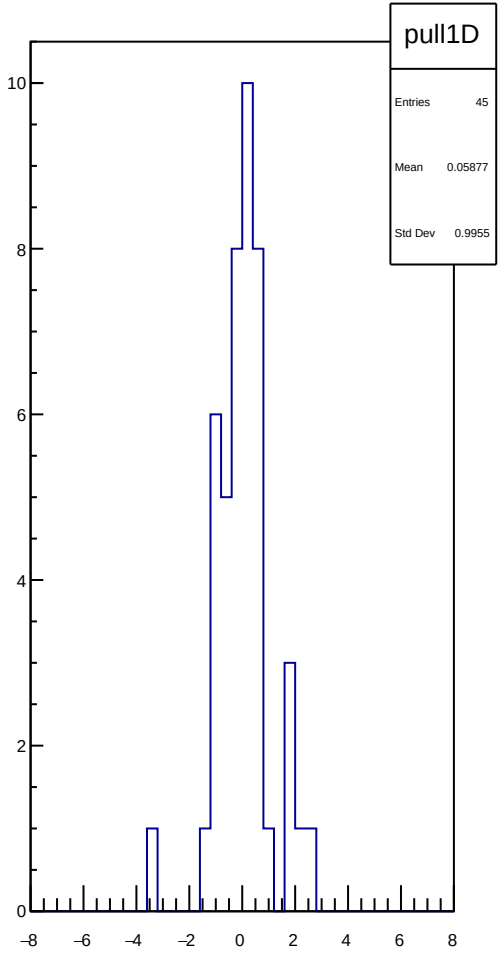
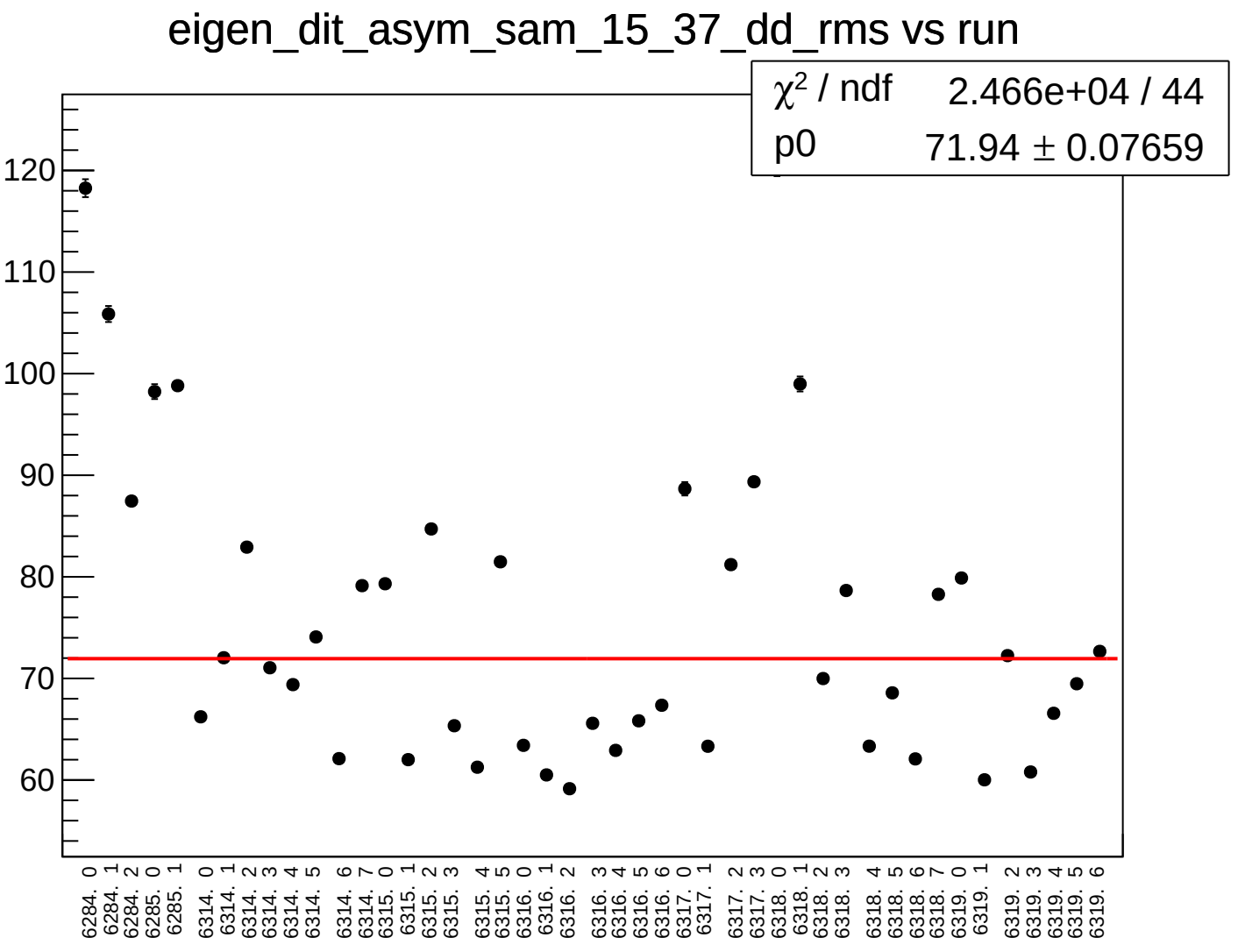
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 44.75 / 44
p0 85.65 ± 108.3
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.77
Std Dev 23.71
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.05877
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.466e+04 / 44
p0 71.94 ± 0.07659
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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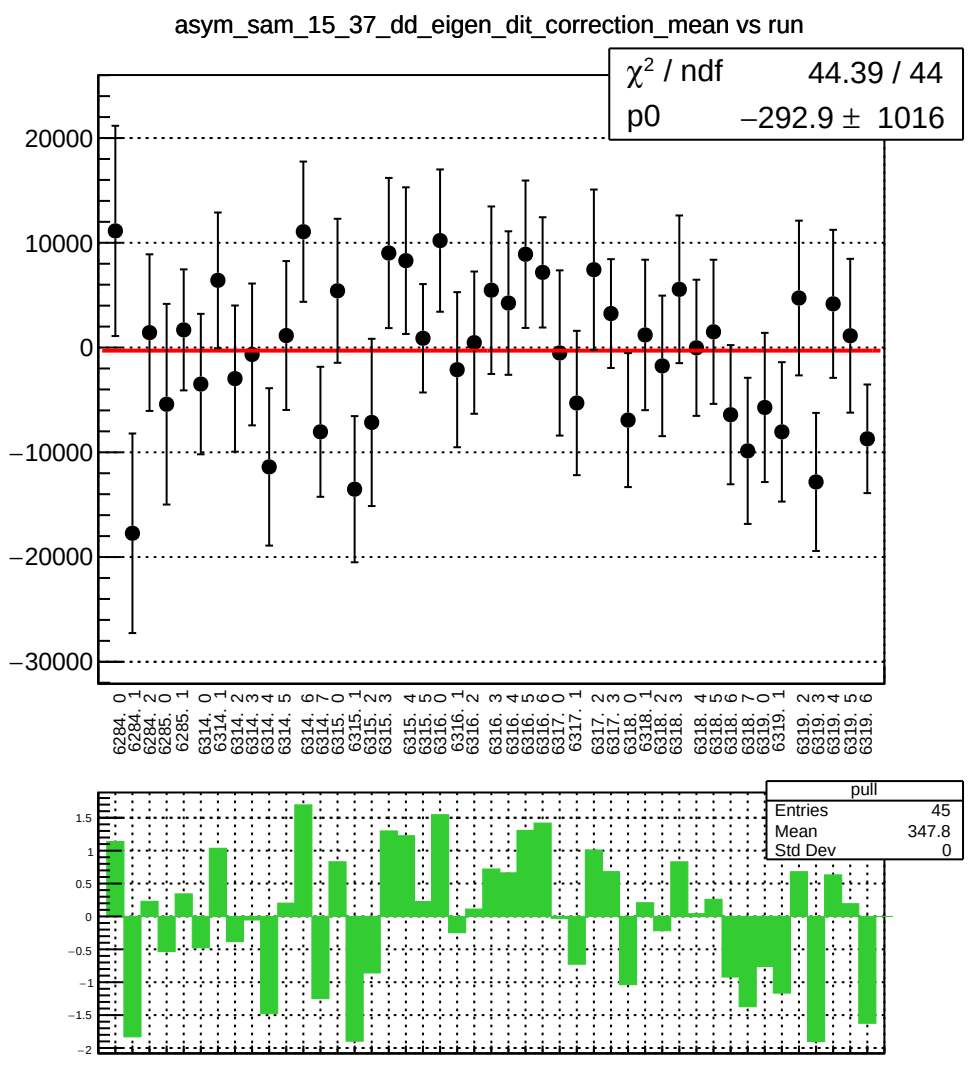
6319. 5
6319. 6


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 44.39 / 44
p0 −292.9 ± 1016
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6315. 3
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 347.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005011
Std Dev 0.9932
9
8
7
6
5
4
3
2
1
0
−8
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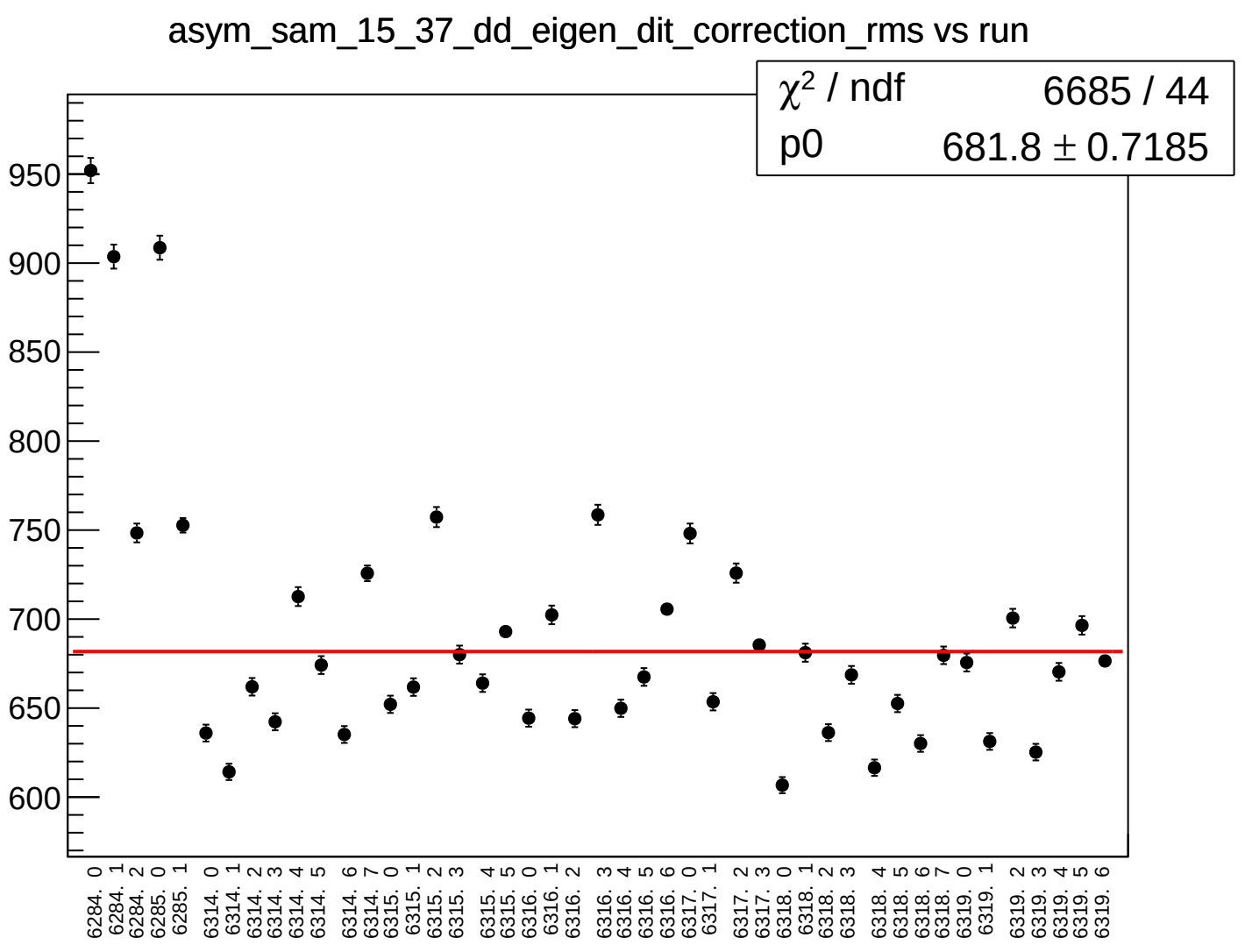
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6685 / 44
p0 681.8 ± 0.7185
950
900
850
800
750
700
650
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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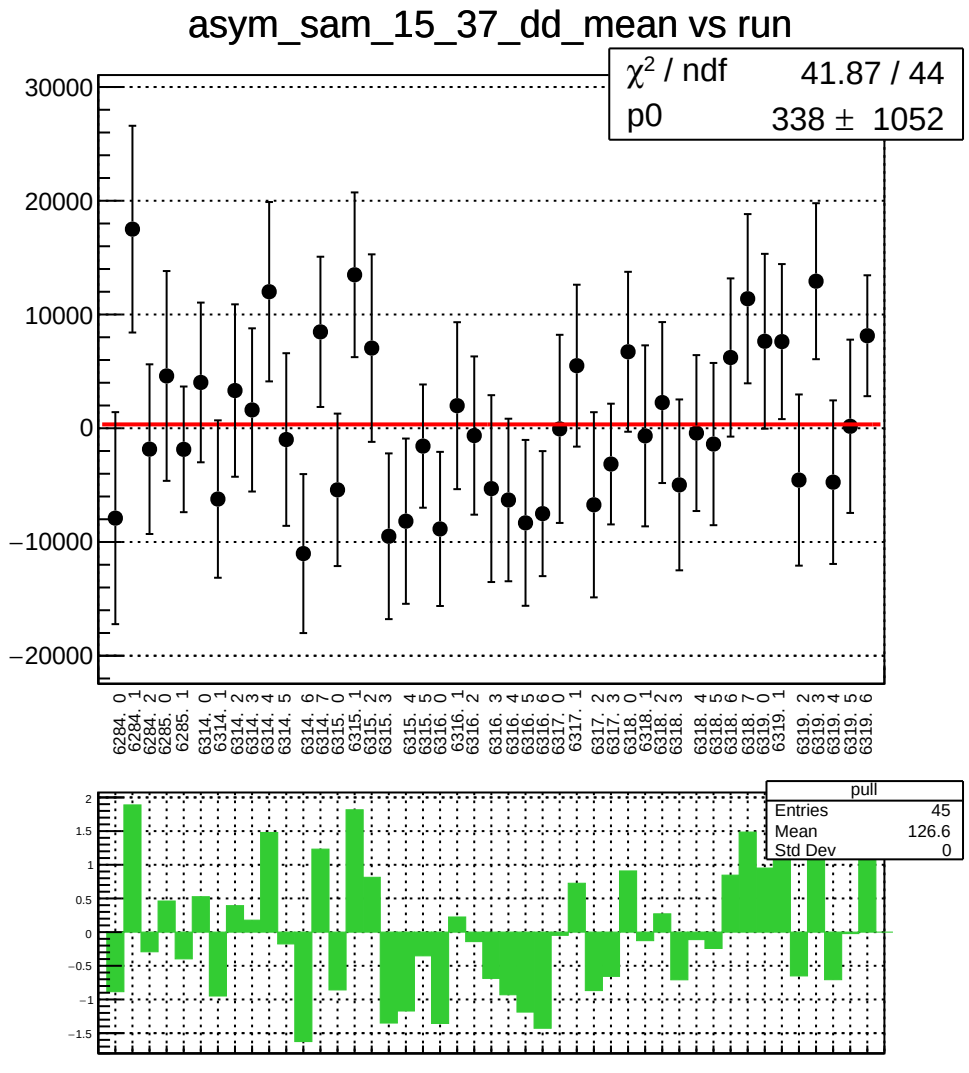
6319. 5
6319. 6


asym_sam_15_37_dd_mean vs run
χ² / ndf 41.87 / 44
p0 338 ± 1052
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 126.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01449
Std Dev 0.9645
10
8
6
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−8
−6
−4
−2
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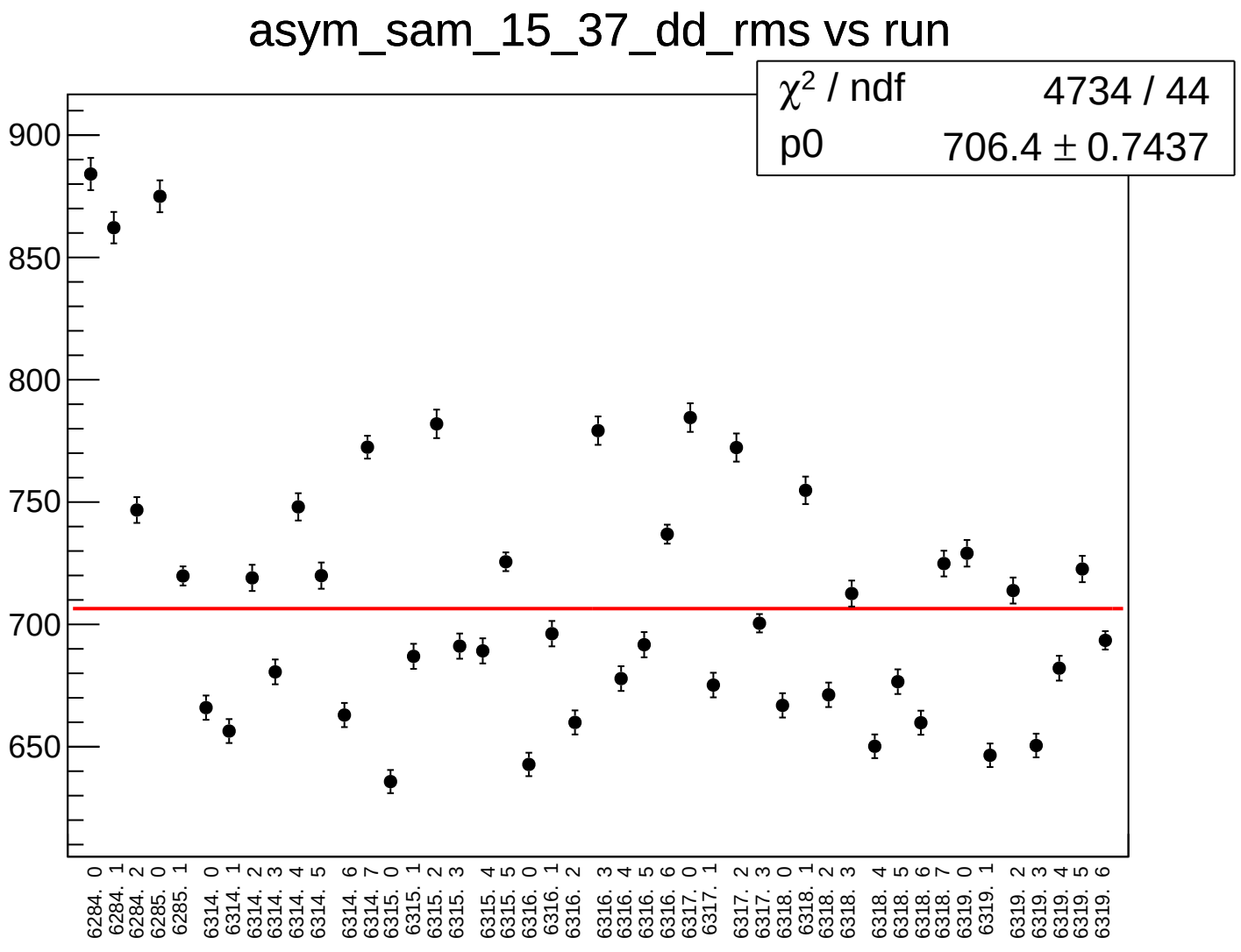
2
4
6
8


asym_sam_15_37_dd_rms vs run
χ² / ndf 4734 / 44
p0 706.4 ± 0.7437
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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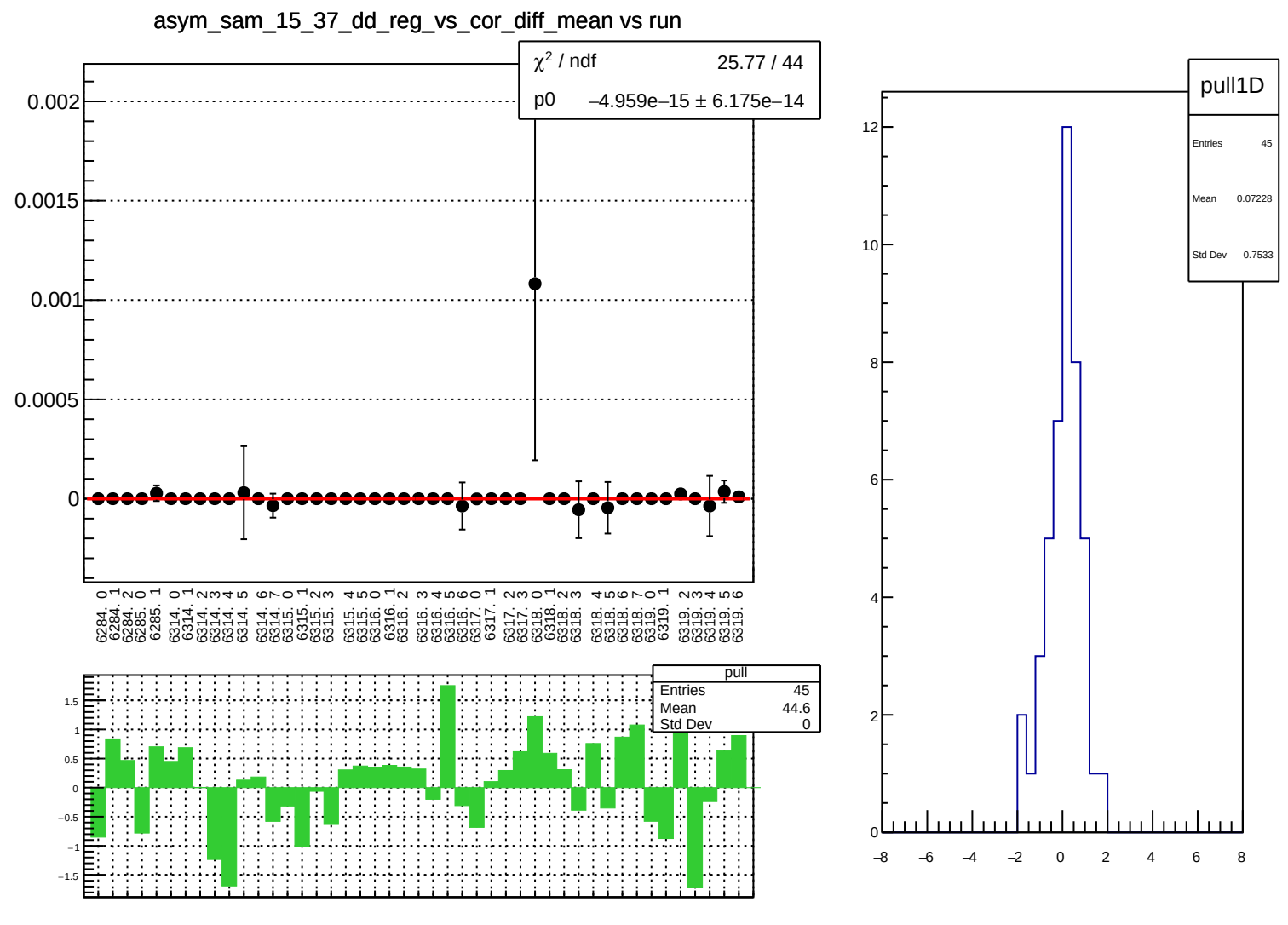
6319. 6


asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.77 / 44
p0 −4.959e−15 ± 6.175e−14
0.002
0.0015
0.001
0.0005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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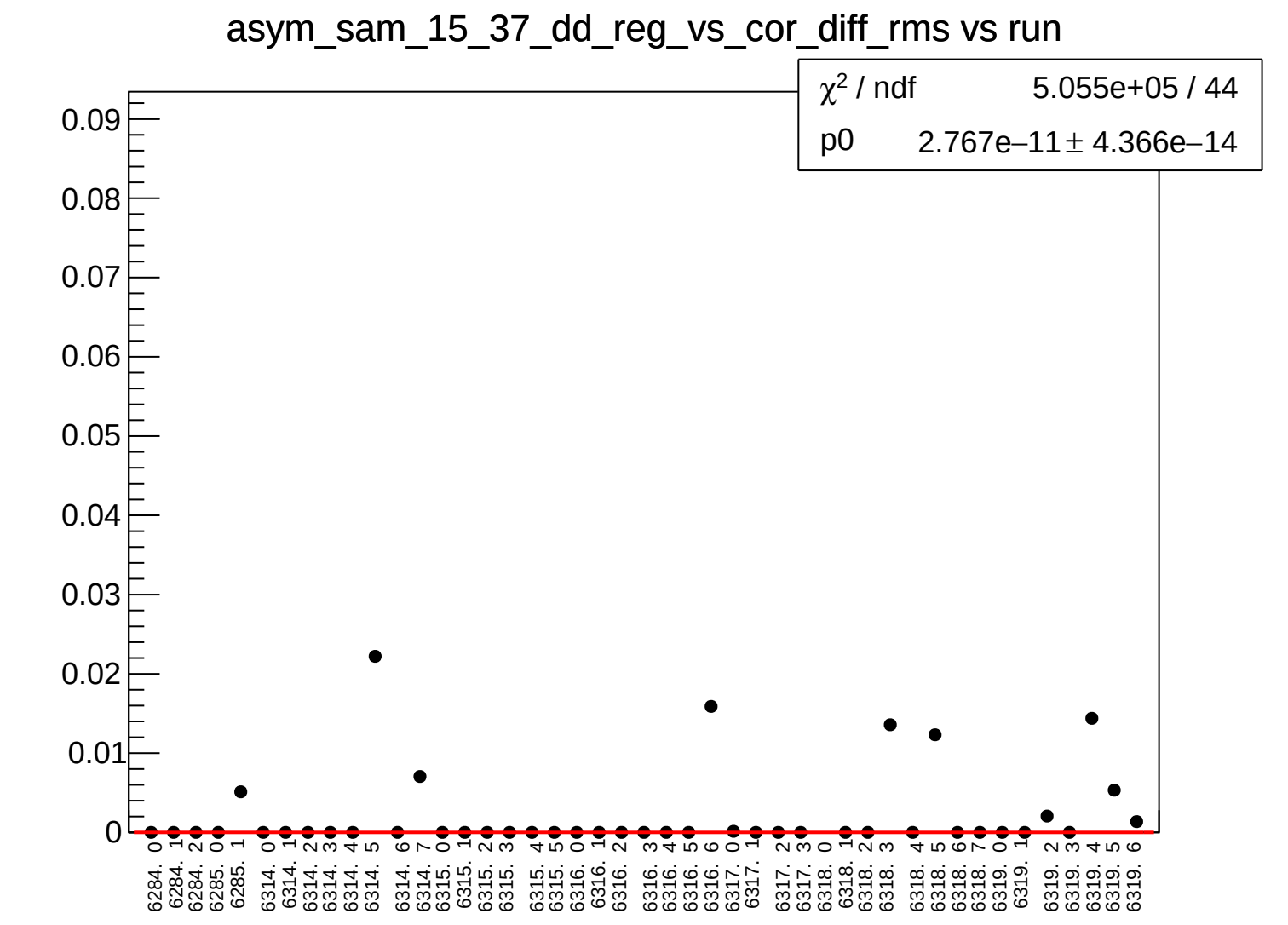
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 44.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.07228
Std Dev 0.7533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.055e+05 / 44
p0 2.767e−11 ± 4.366e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
6314. 3
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6316. 1
6316. 2
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6316. 4
6316. 5
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6317. 1
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6318. 2
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6319. 3
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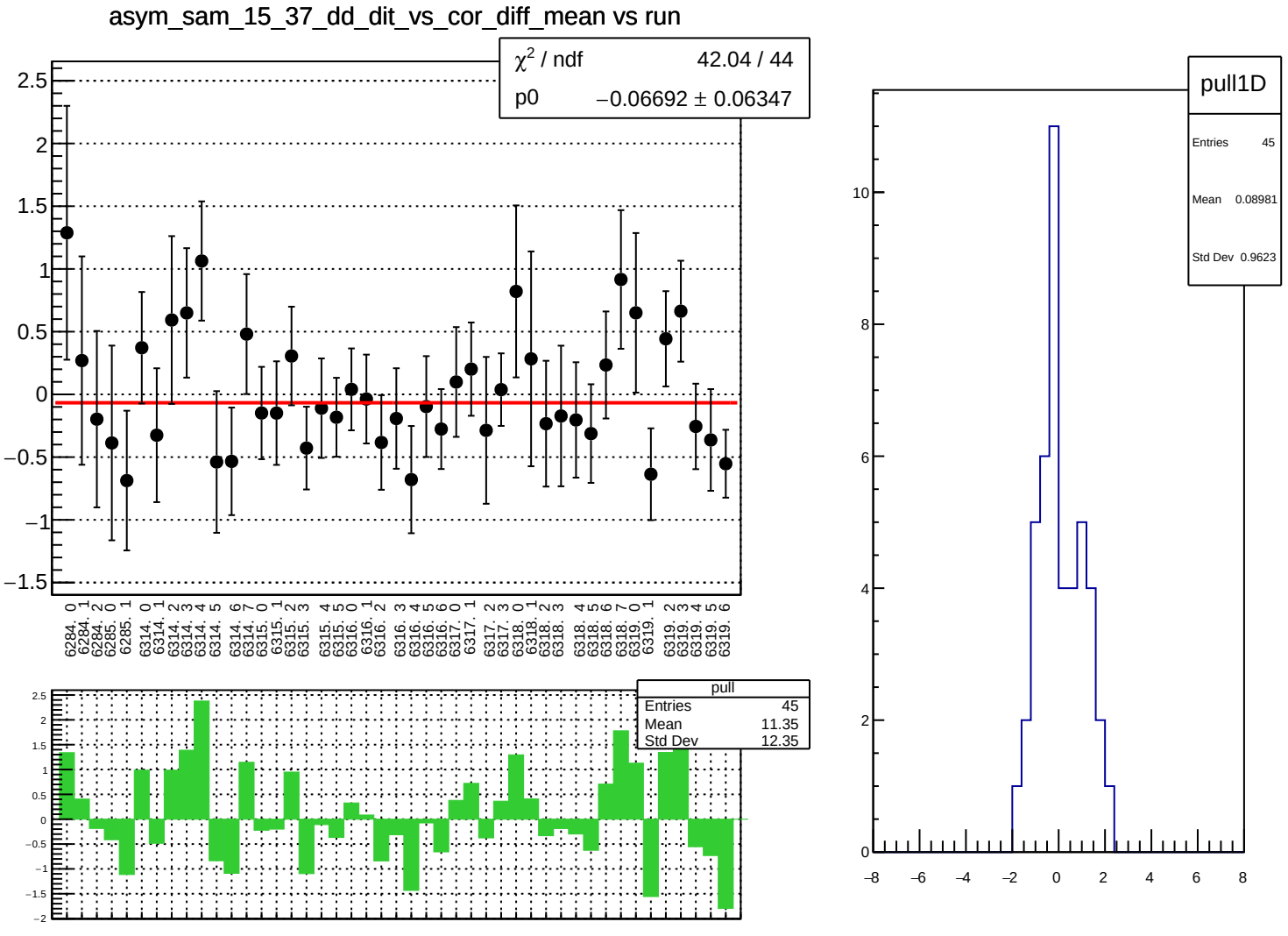
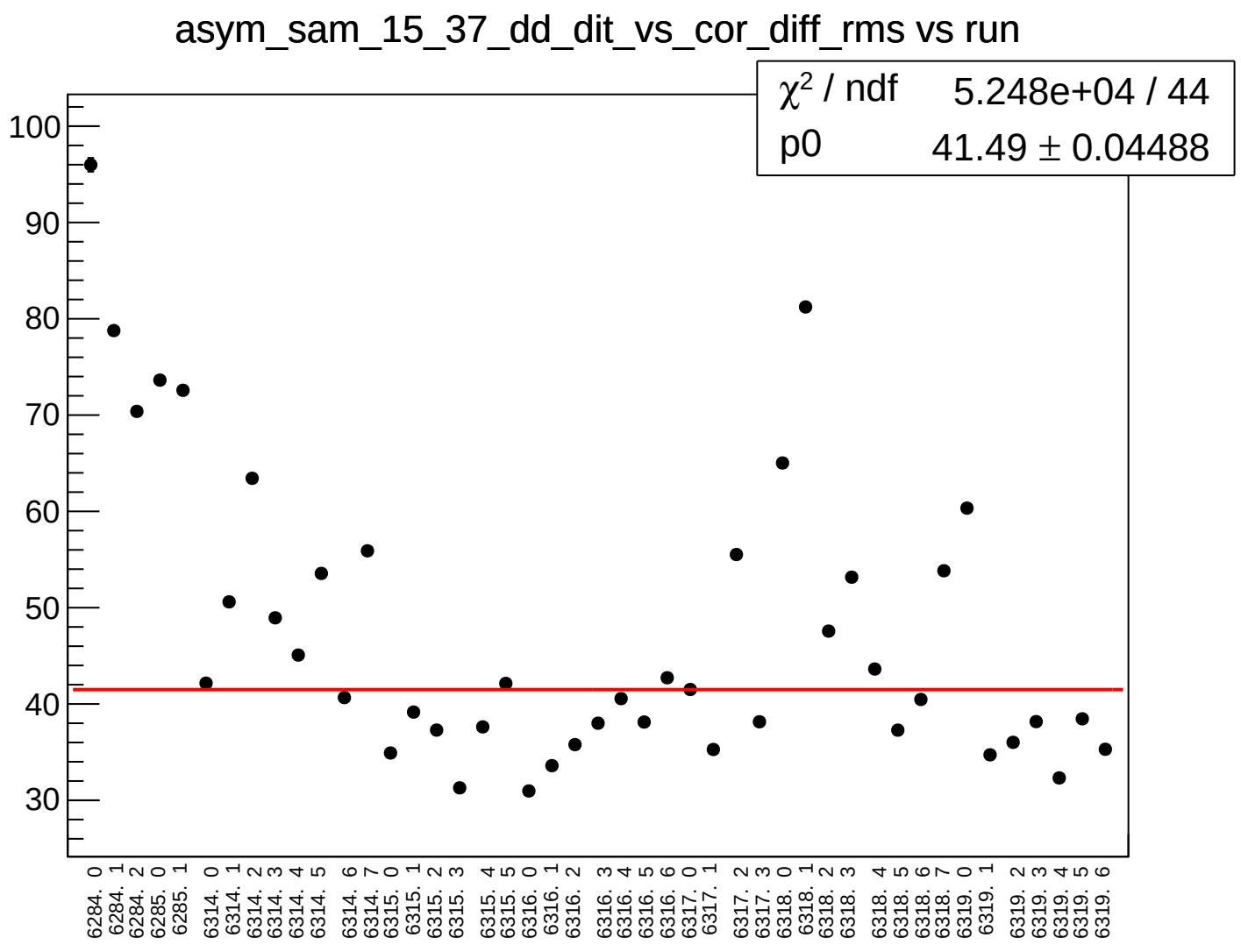
6319. 5
6319. 6


asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.04 / 44
p0 −0.06692 ± 0.06347
pull
Entries 45
Mean 11.35
Std Dev 12.35
pull1D
Entries 45
Mean 0.08981
Std Dev 0.9623


asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 44
p0 41.49 ± 0.04488
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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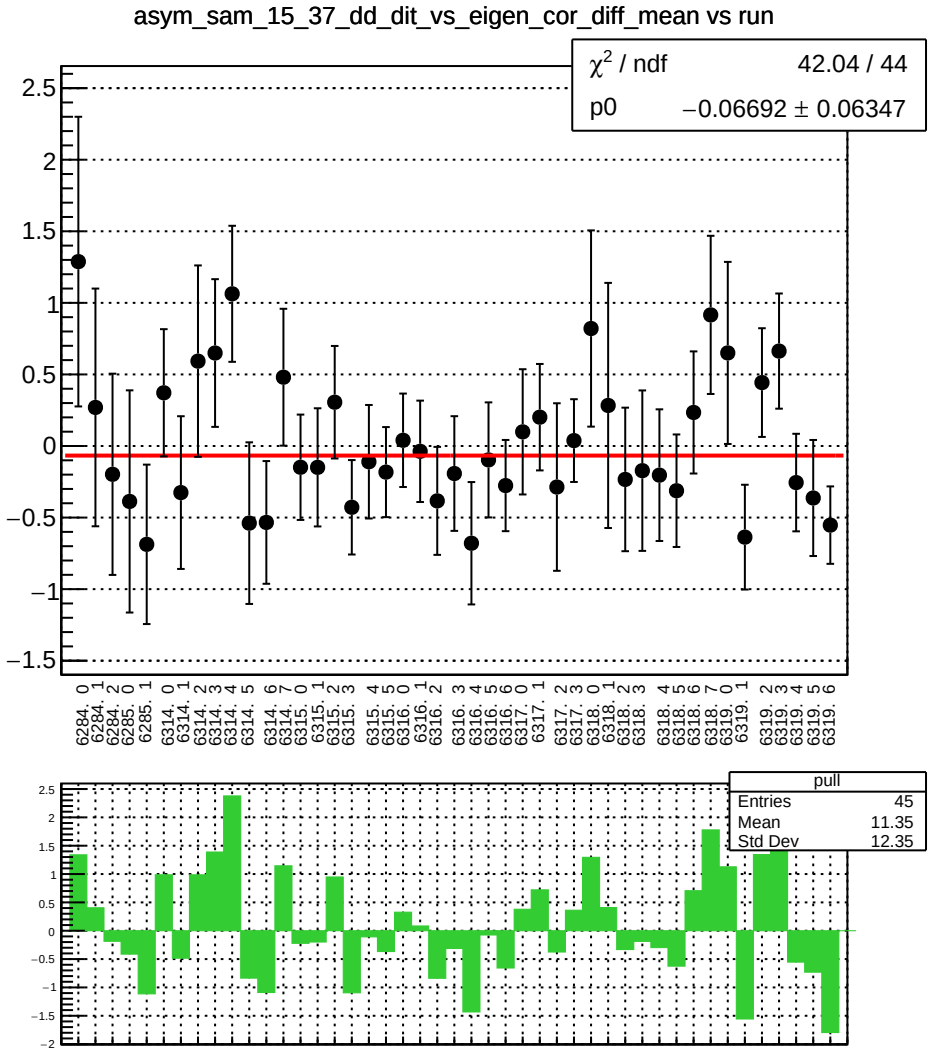
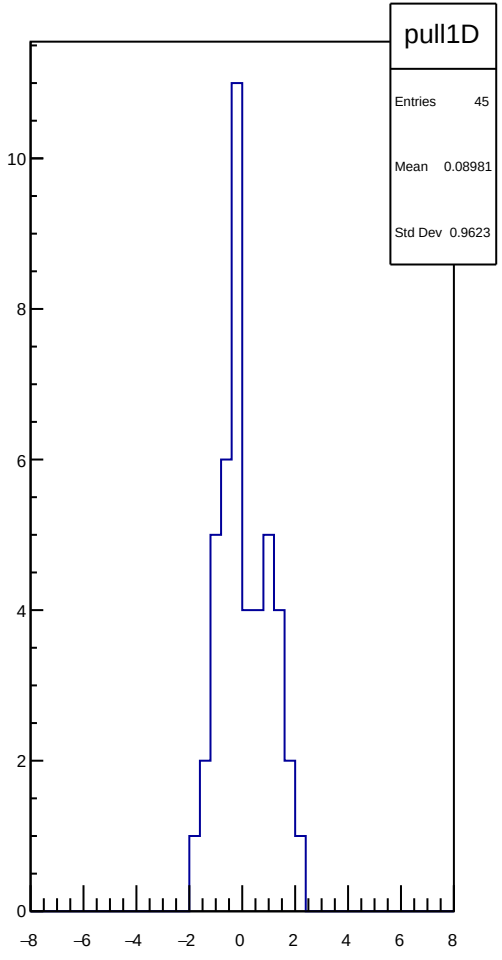
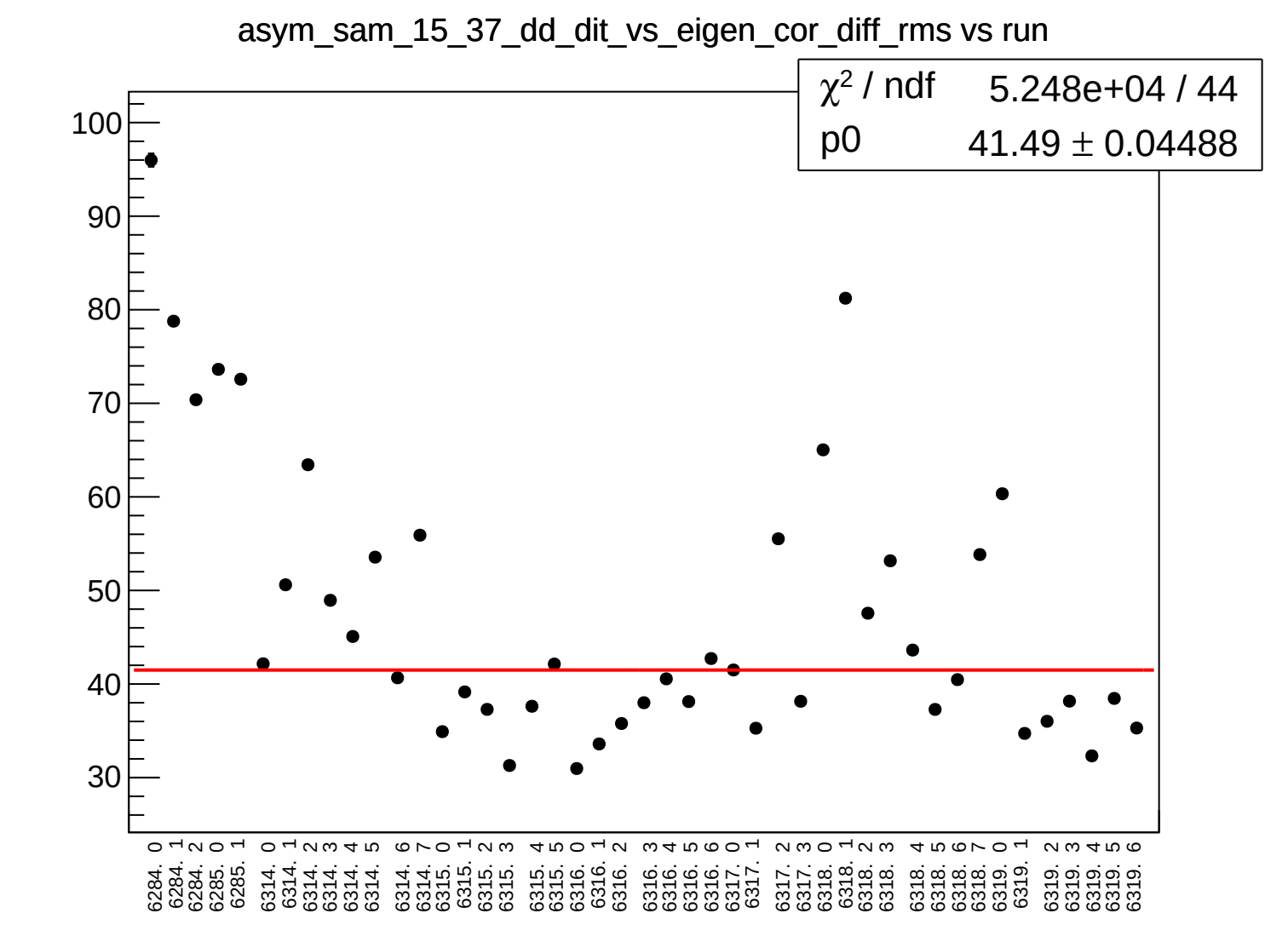
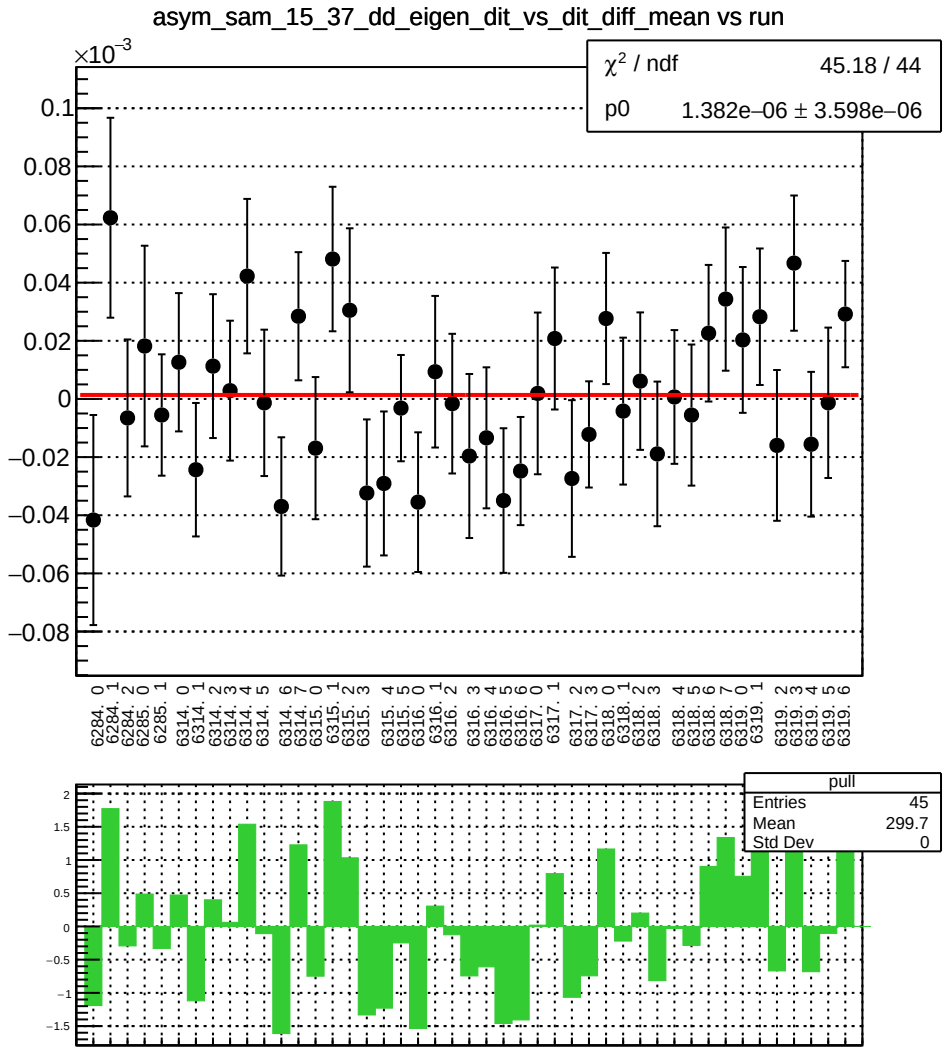
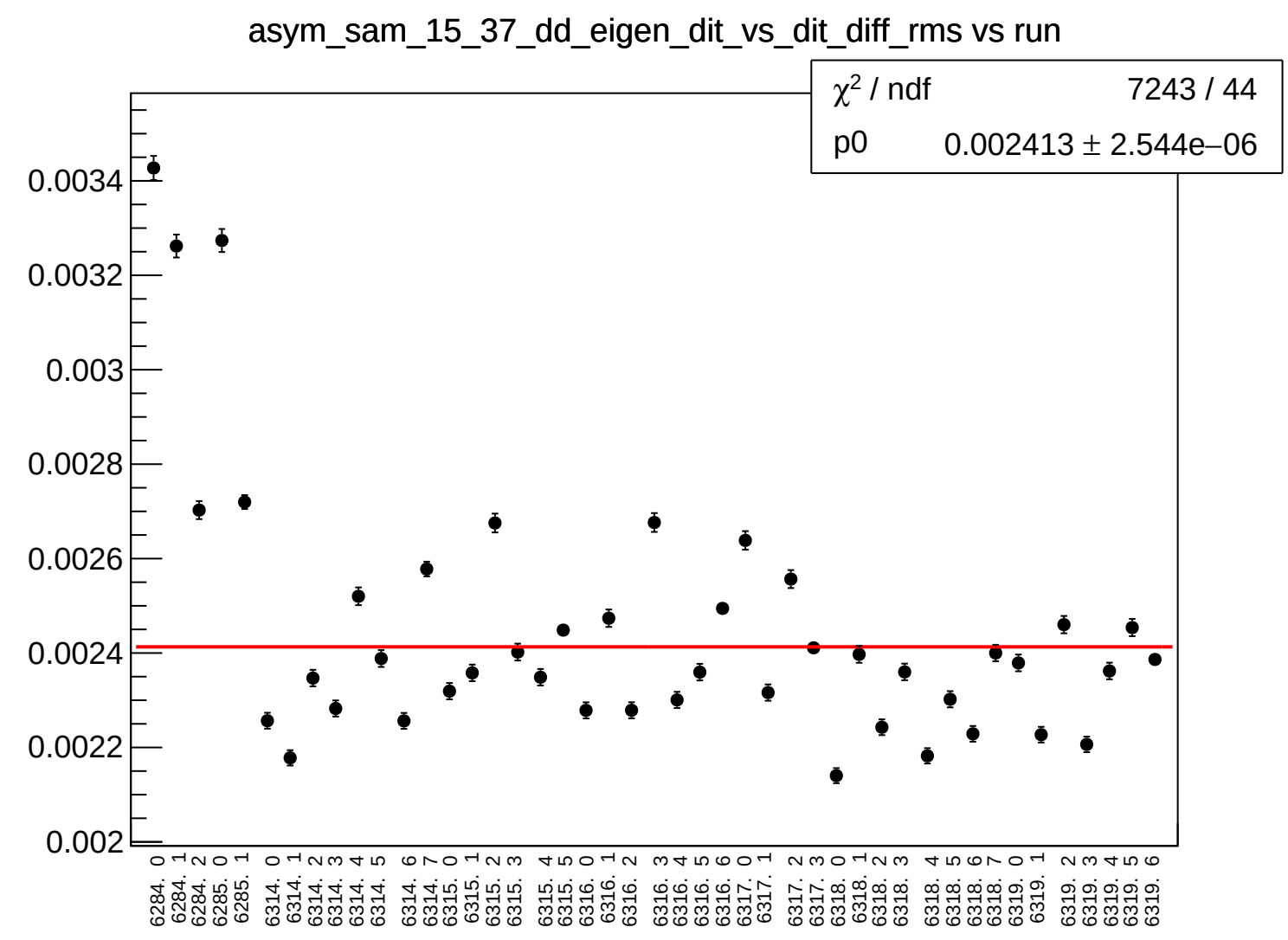
6319. 6

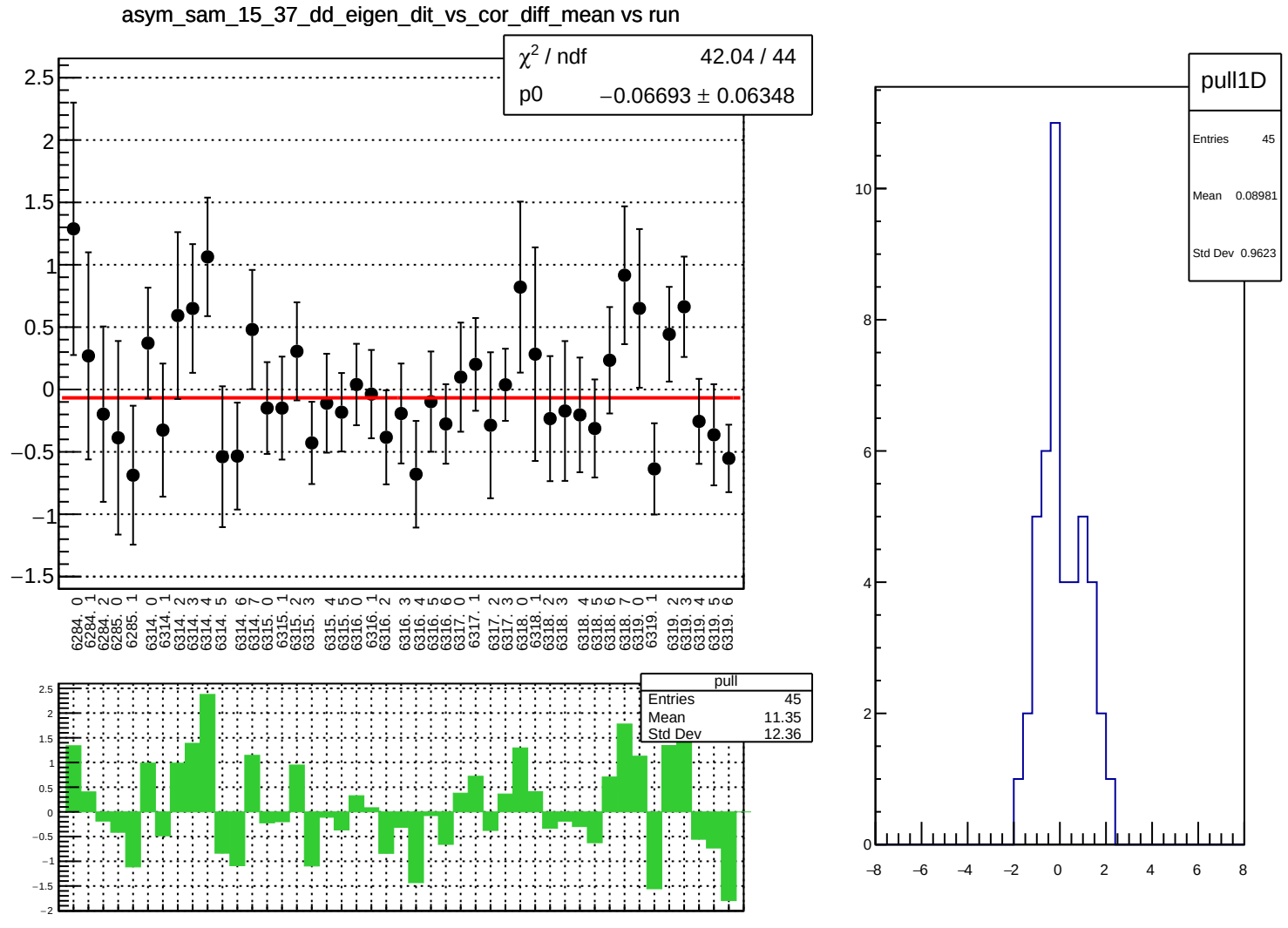

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.04 / 44
p0 −0.06692 ± 0.06347
pull
Entries 45
Mean 11.35
Std Dev 12.35

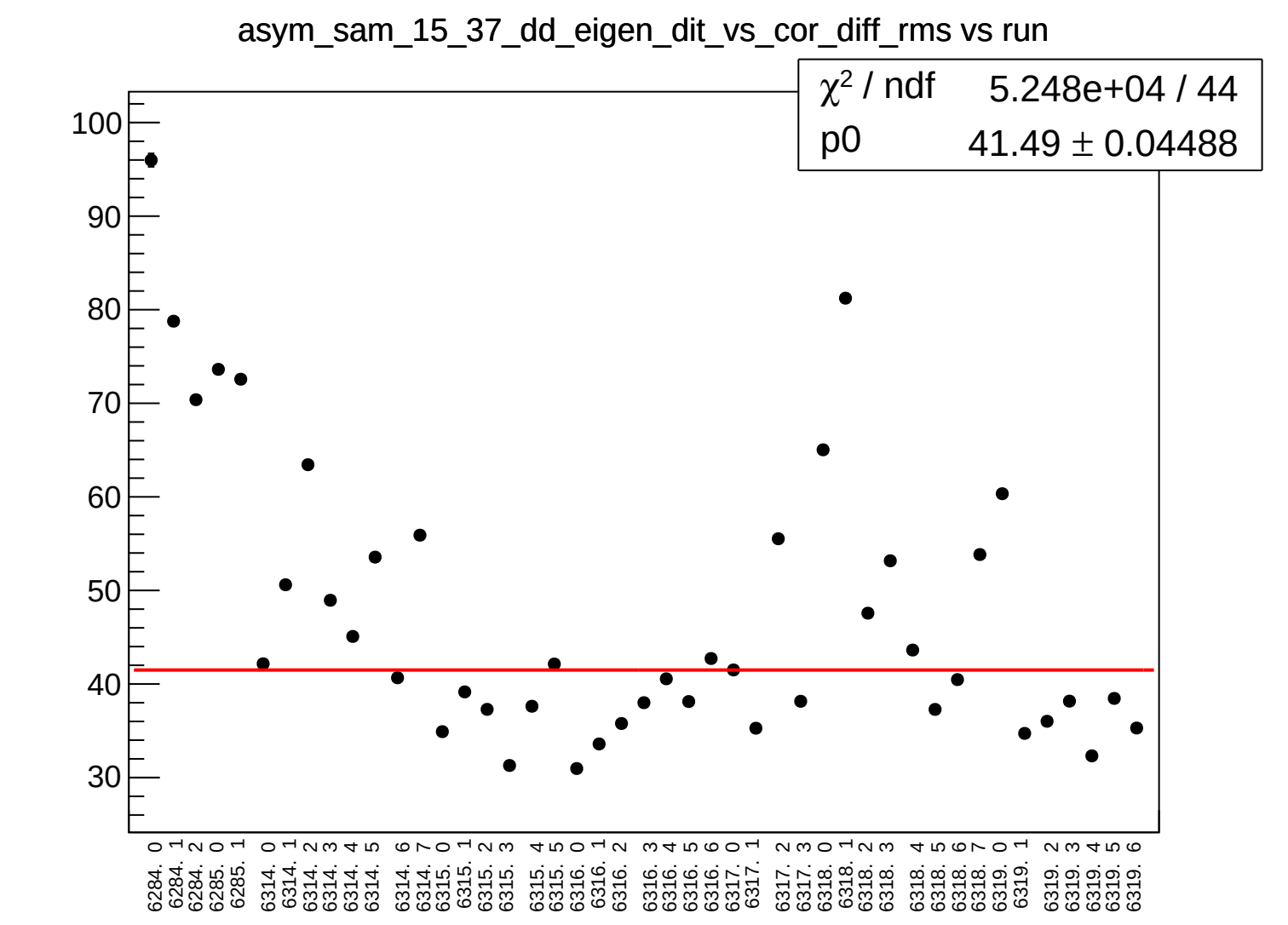

pull1D
Entries 45
Mean 0.08981
Std Dev 0.9623

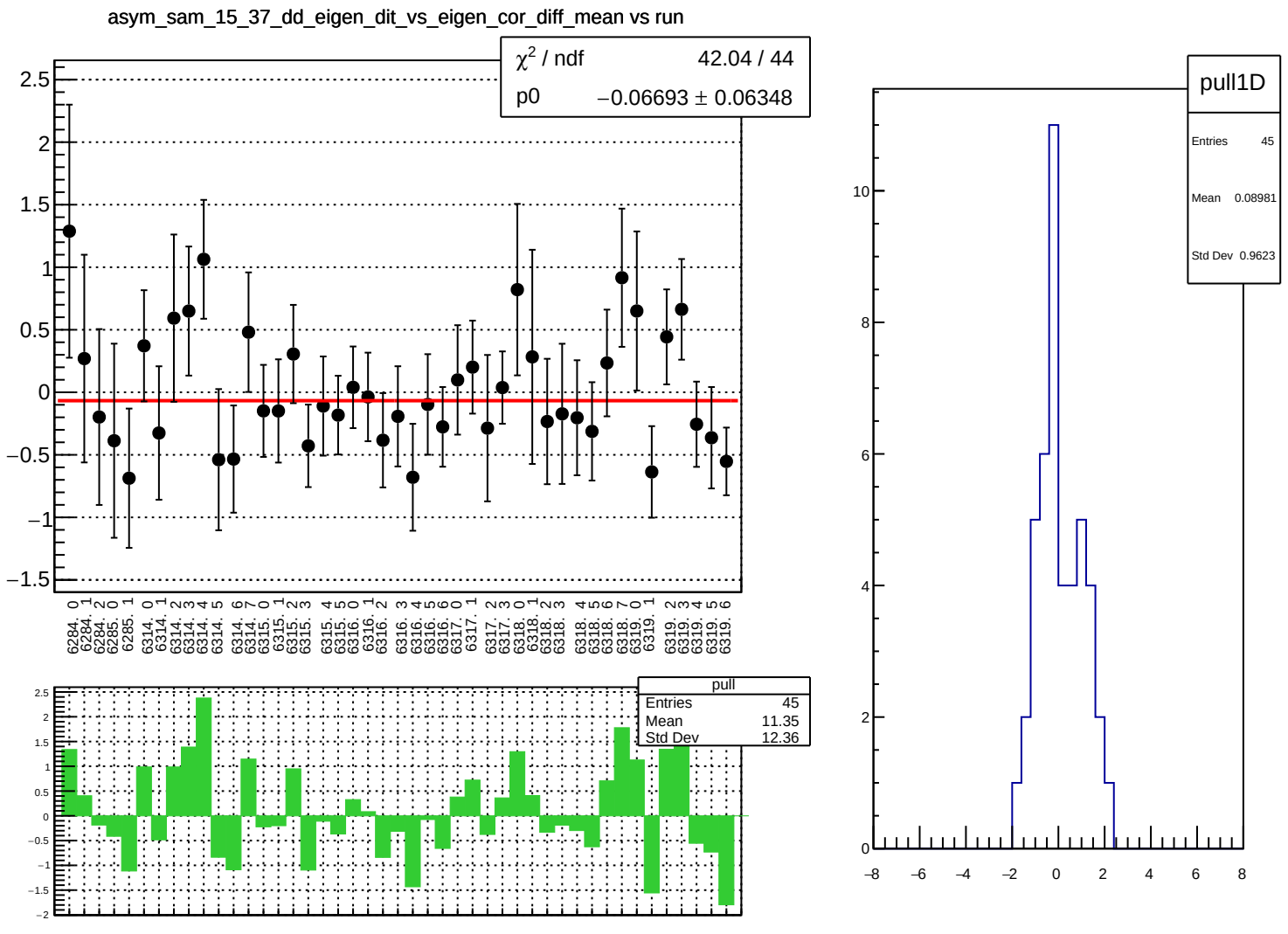

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 44
p0 41.49 ± 0.04488
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

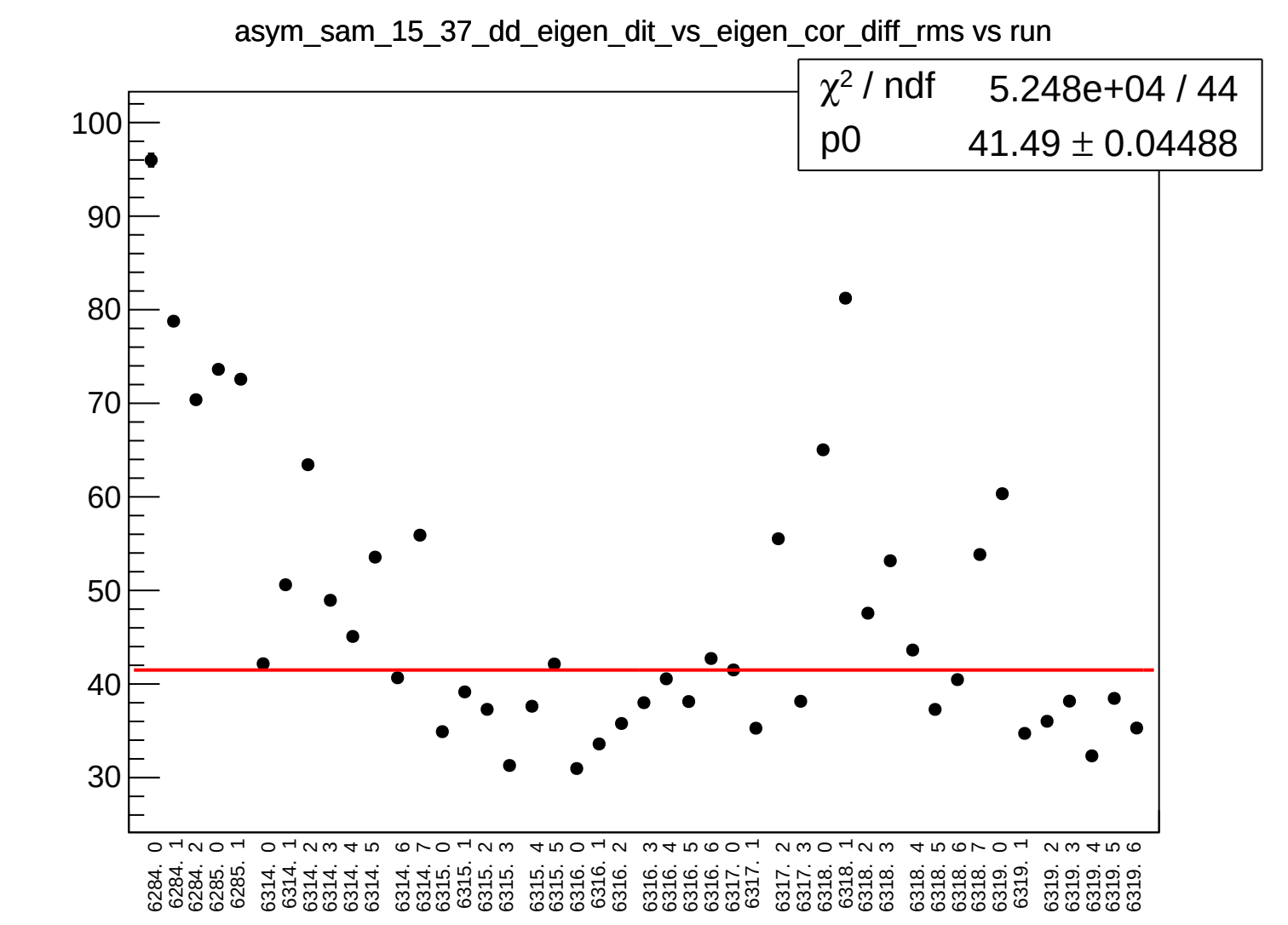

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.18 / 44
p0 1.382e−06 ± 3.598e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 299.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.005848
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

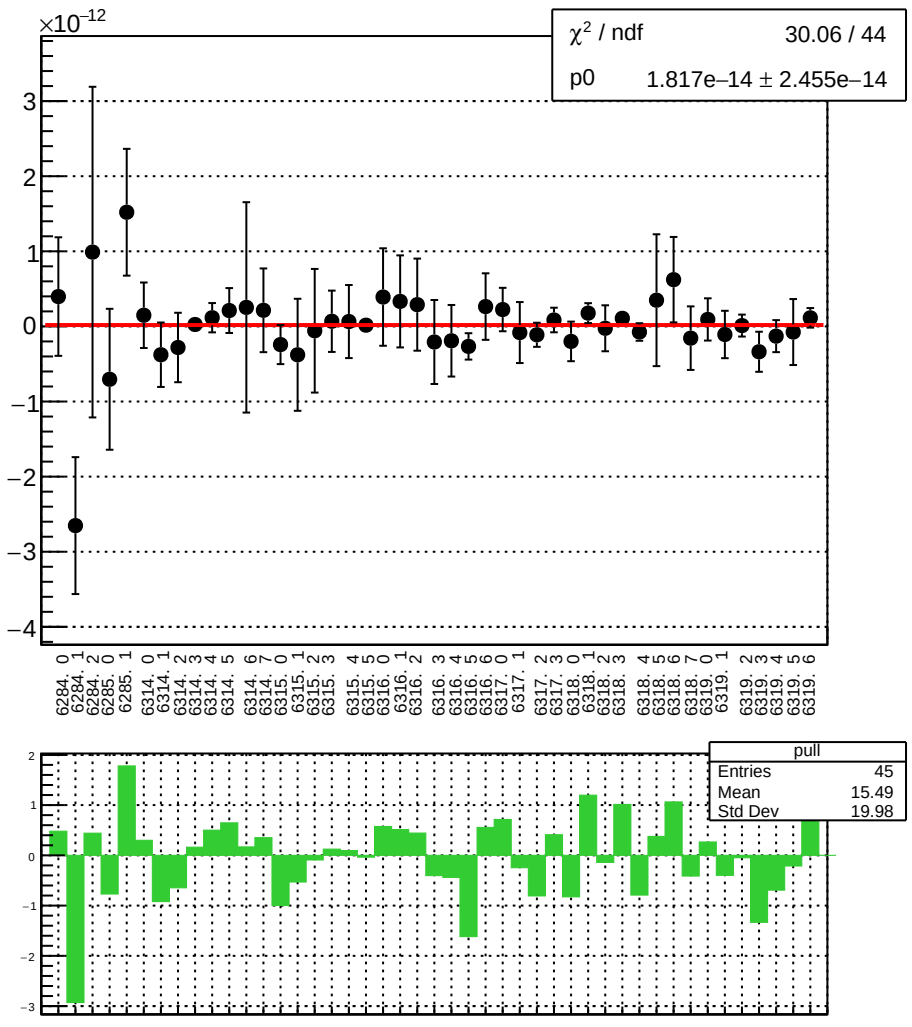

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7243 / 44
p0 0.002413 ± 2.544e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

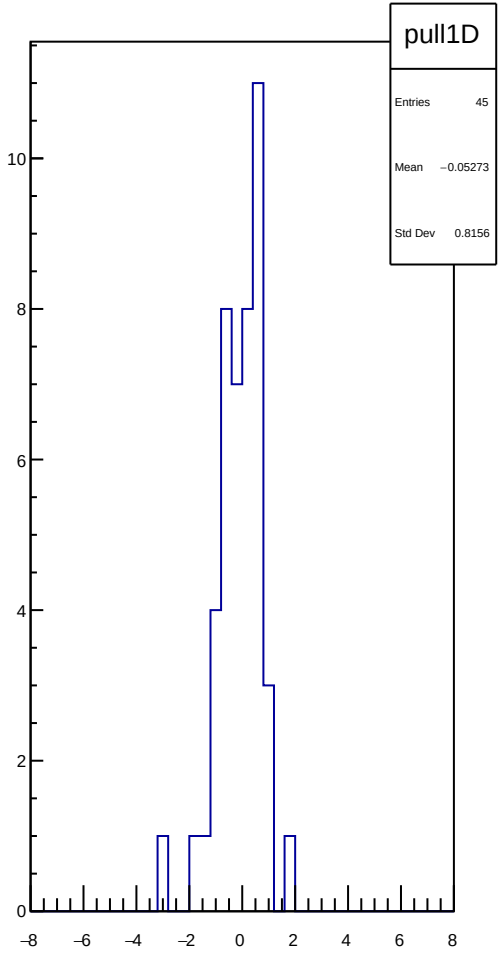

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.04 / 44
p0 −0.06693 ± 0.06348
pull
Entries 45
Mean 11.35
Std Dev 12.36
pull1D
Entries 45
Mean 0.08981
Std Dev 0.9623

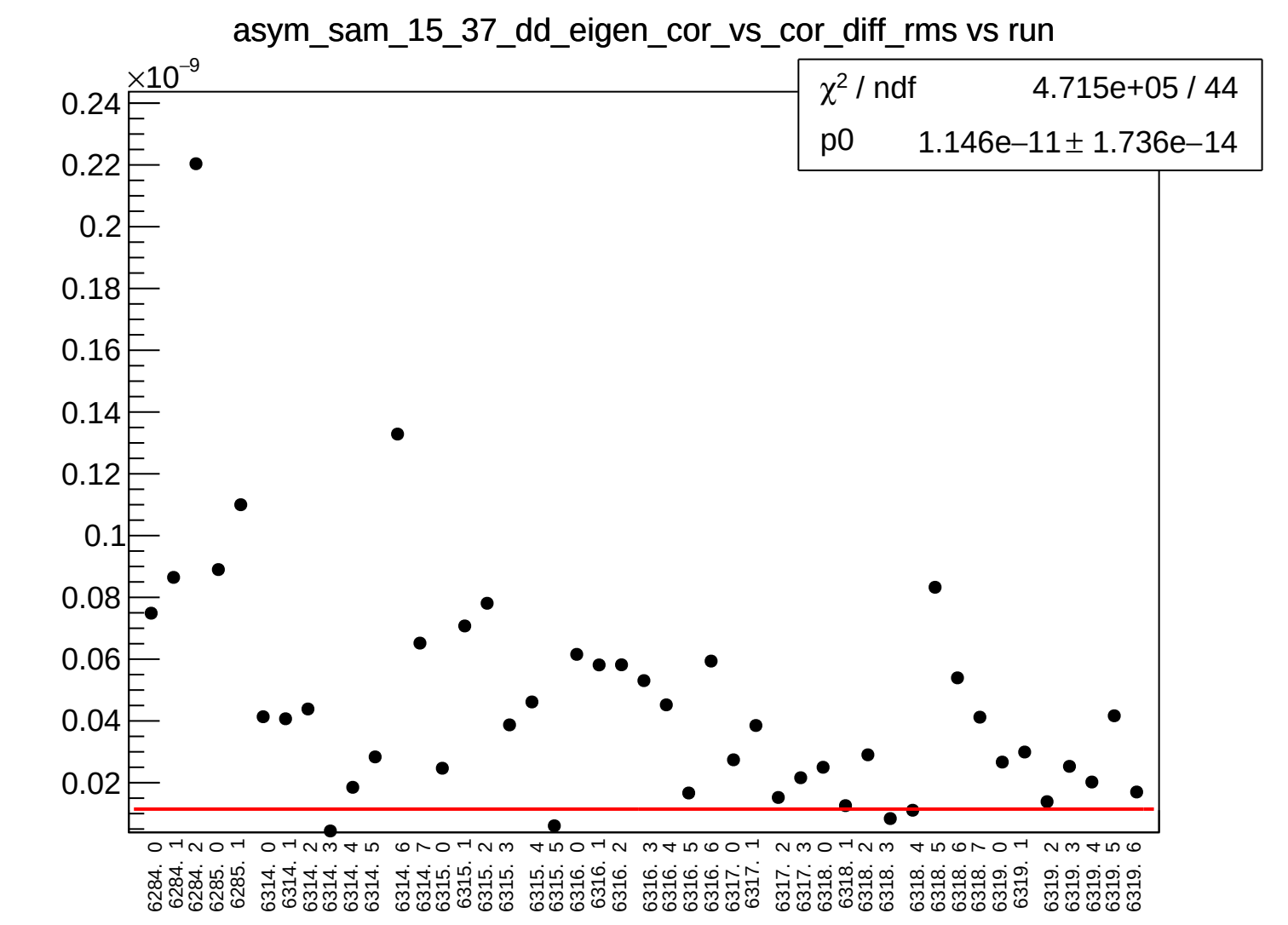

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 44
p0 41.49 ± 0.04488
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

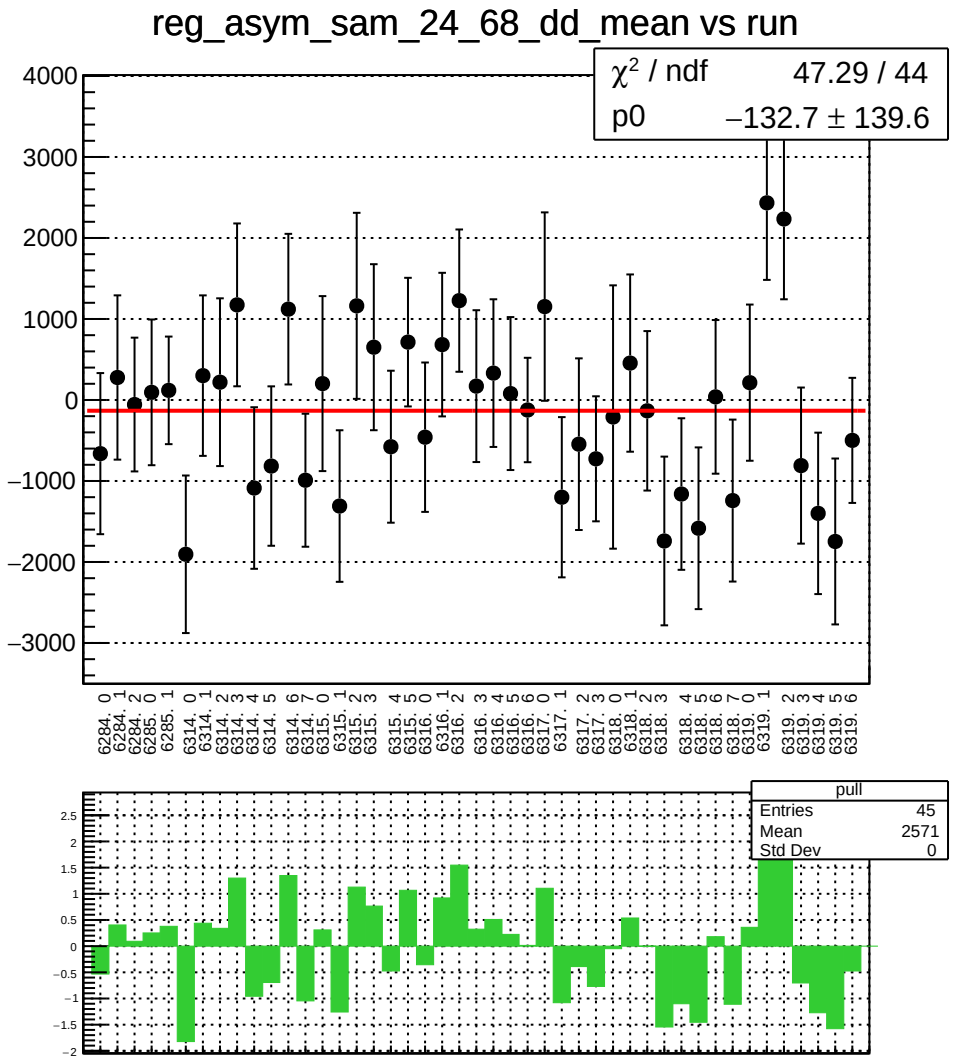

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.04 / 44
p0 −0.06693 ± 0.06348
pull
Entries 45
Mean 11.35
Std Dev 12.36
pull1D
Entries 45
Mean 0.08981
Std Dev 0.9623

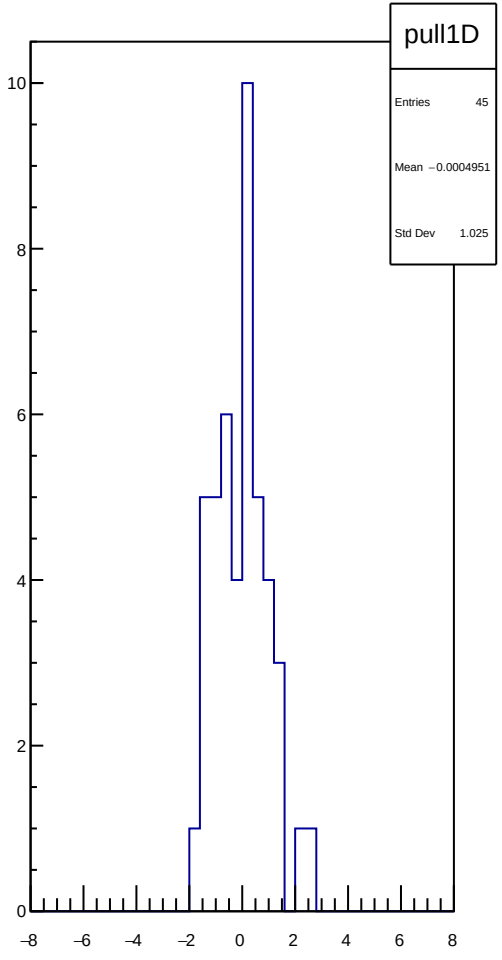

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 44
p0 41.49 ± 0.04488
100
90
80
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

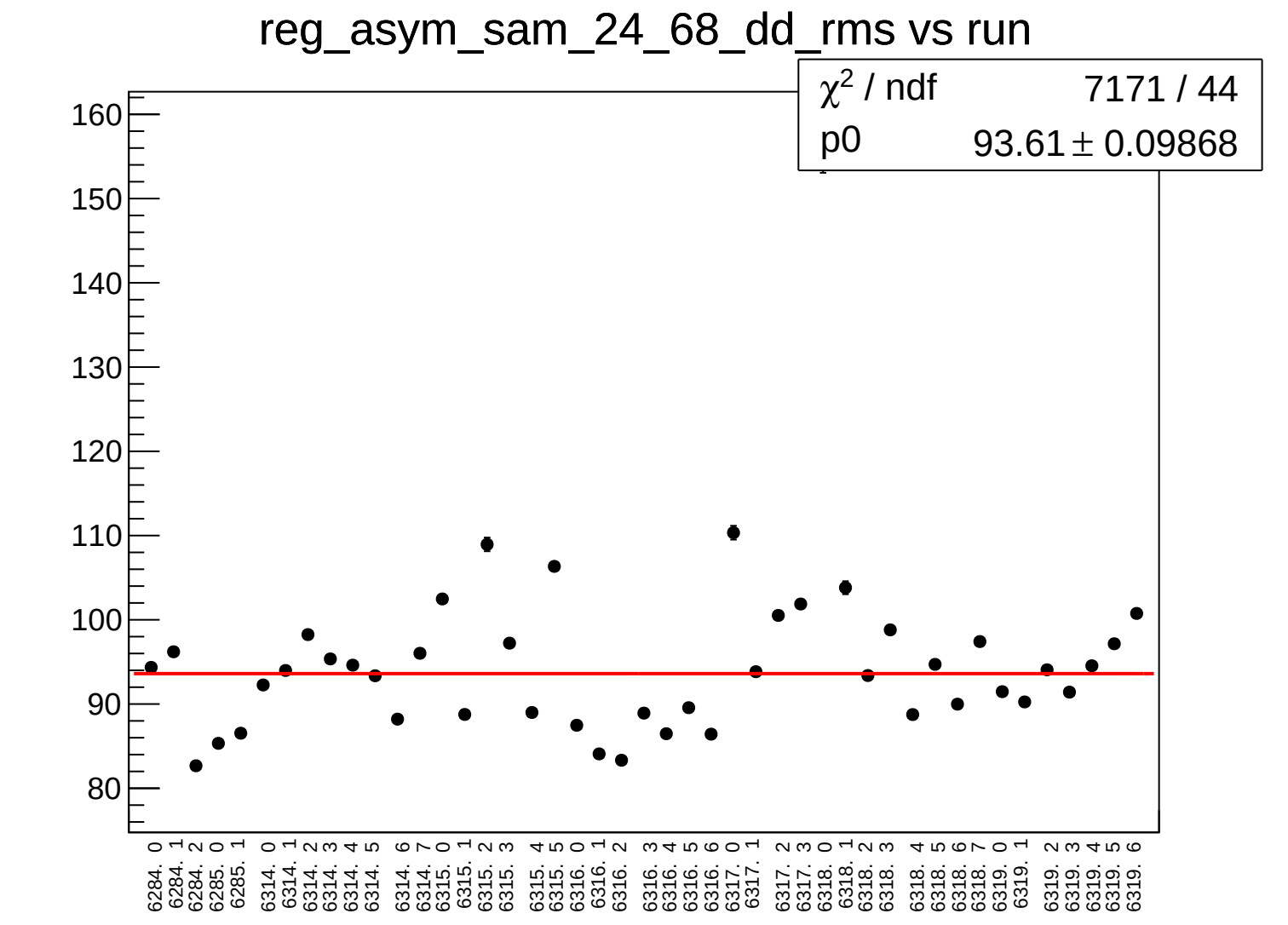

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.06 / 44
p0 1.817e−14 ± 2.455e−14
pull
Entries 45
Mean 15.49
Std Dev 19.98

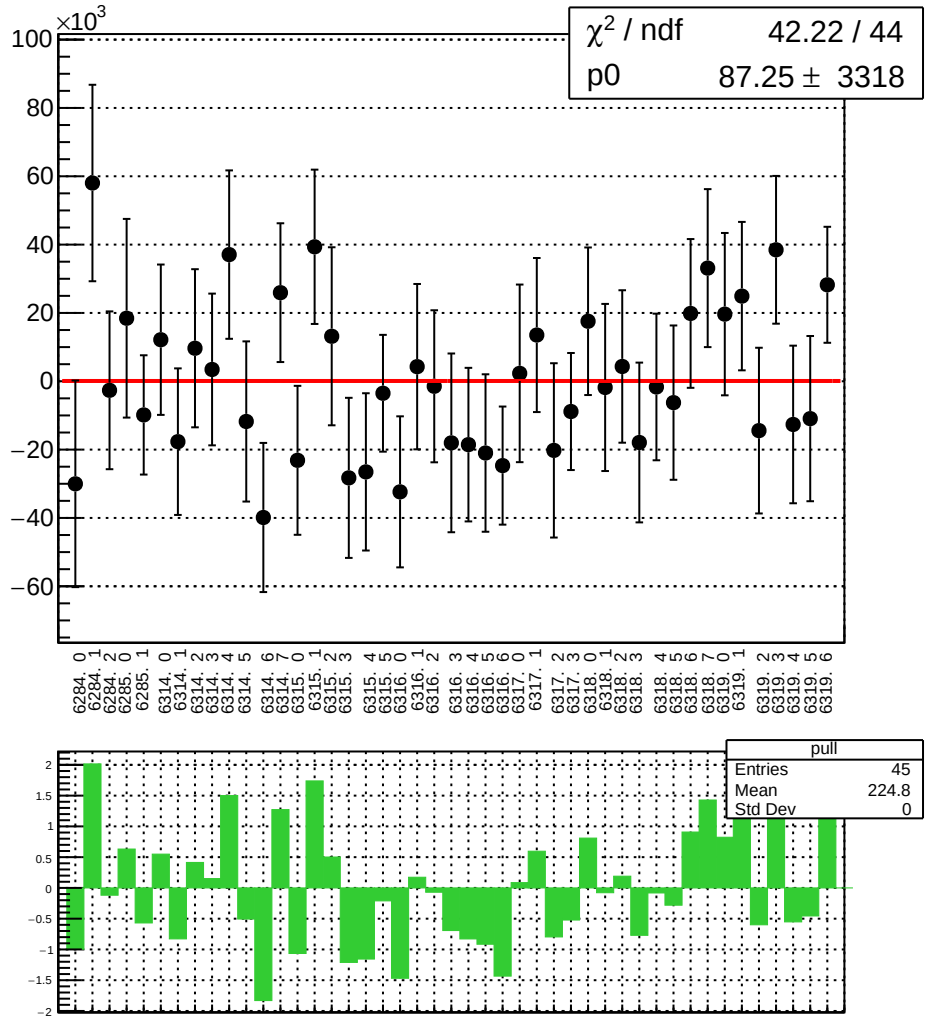

pull1D
Entries 45
Mean −0.05273
Std Dev 0.8156

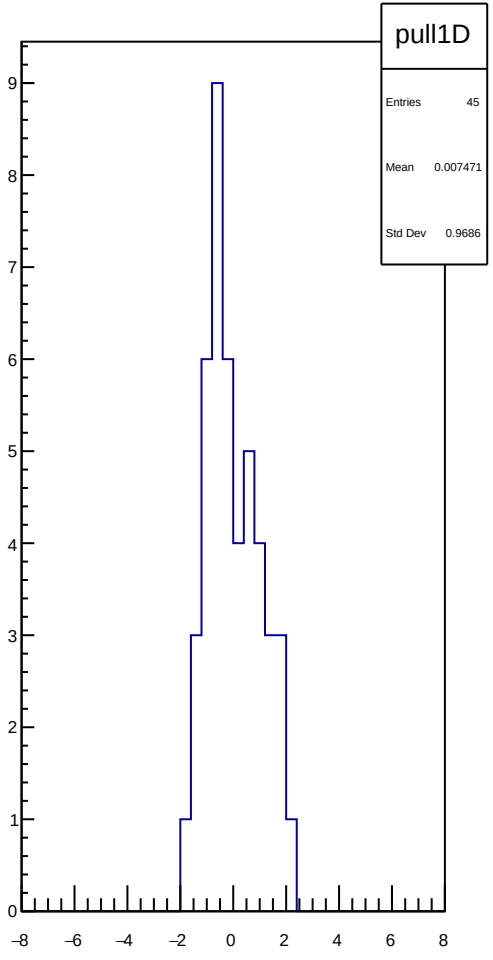

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.715e+05 / 44
p0 1.146e−11 ± 1.736e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

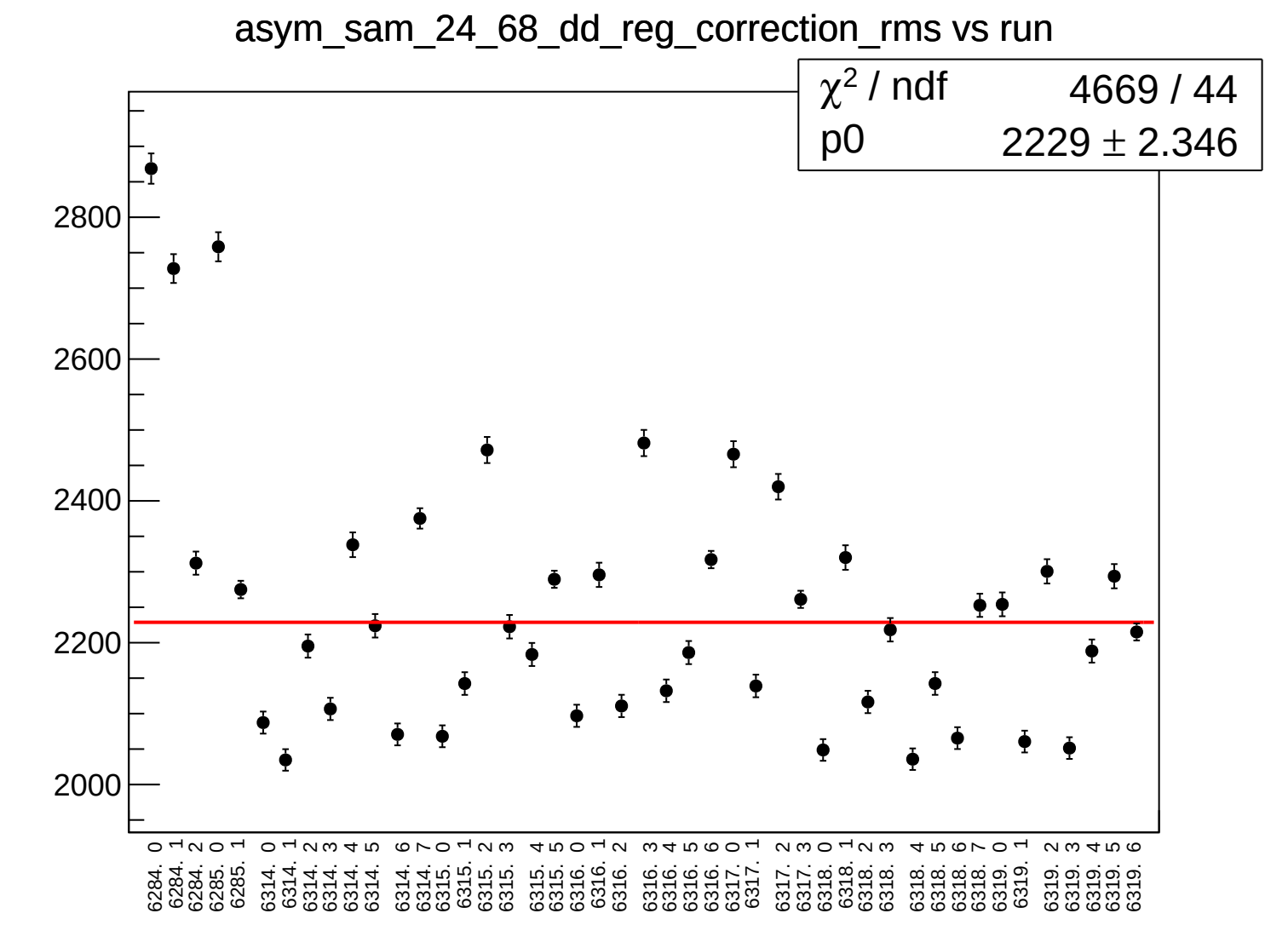

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 47.29 / 44
p0 −132.7 ± 139.6
pull
Entries 45
Mean 2571
Std Dev 0

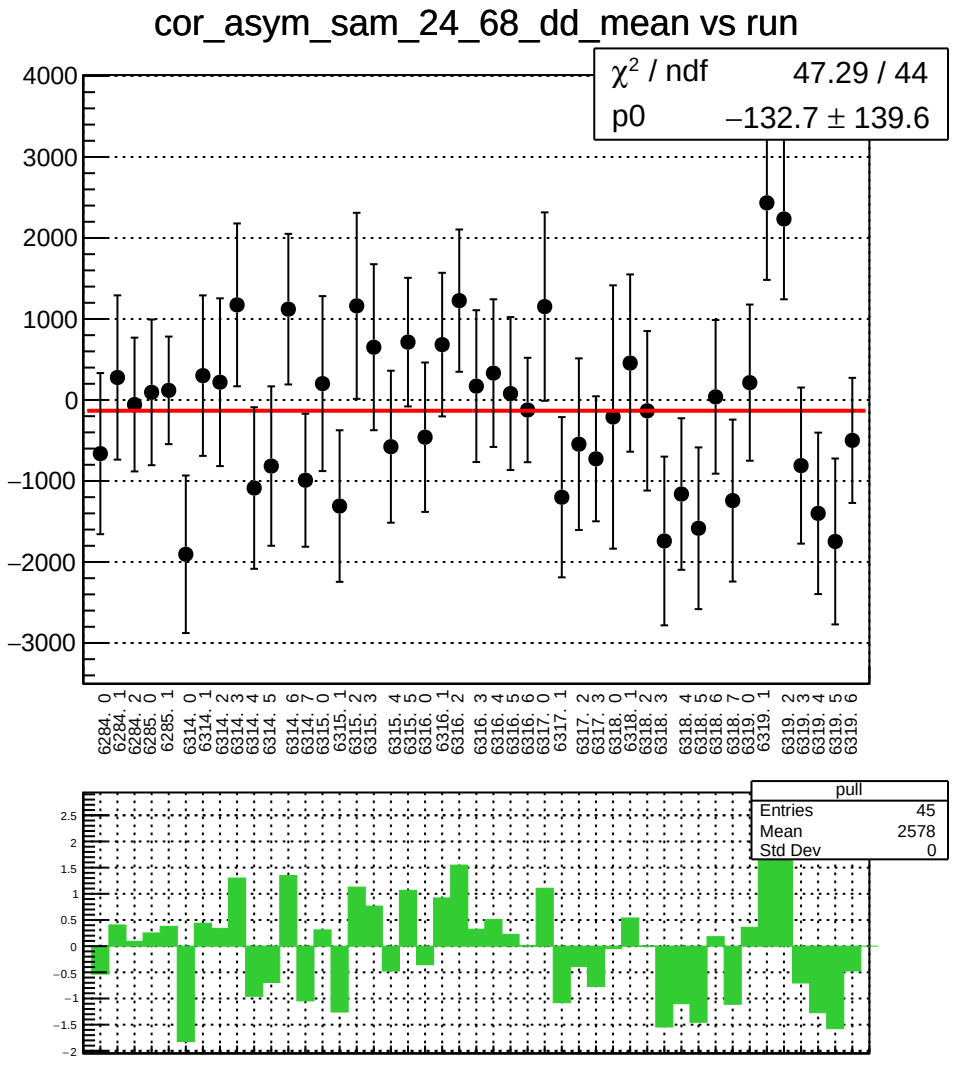

pull1D
Entries 45
Mean −0.0004951
Std Dev 1.025

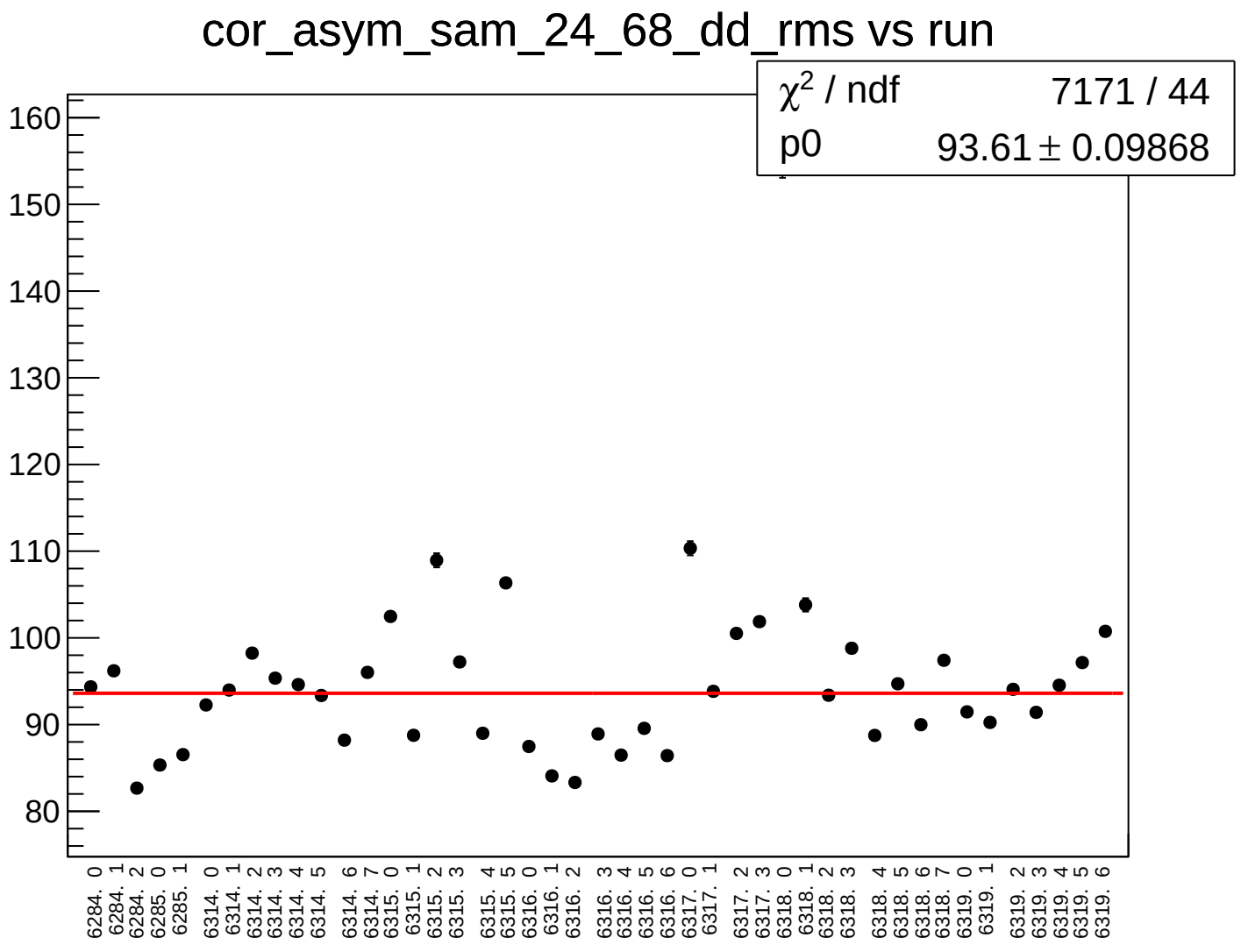

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 7171 / 44
p0 93.61 ± 0.09868
160
150
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

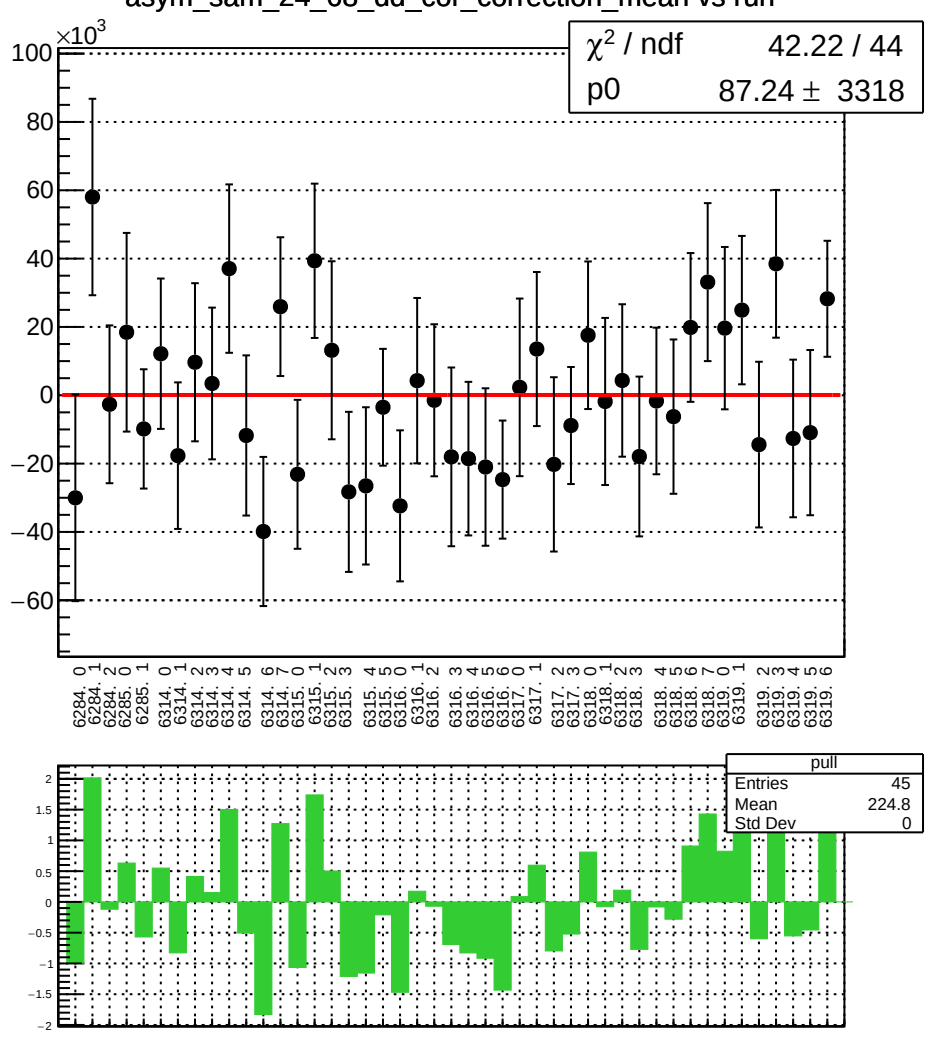

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 42.22 / 44
p0 87.25 ± 3318
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 224.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

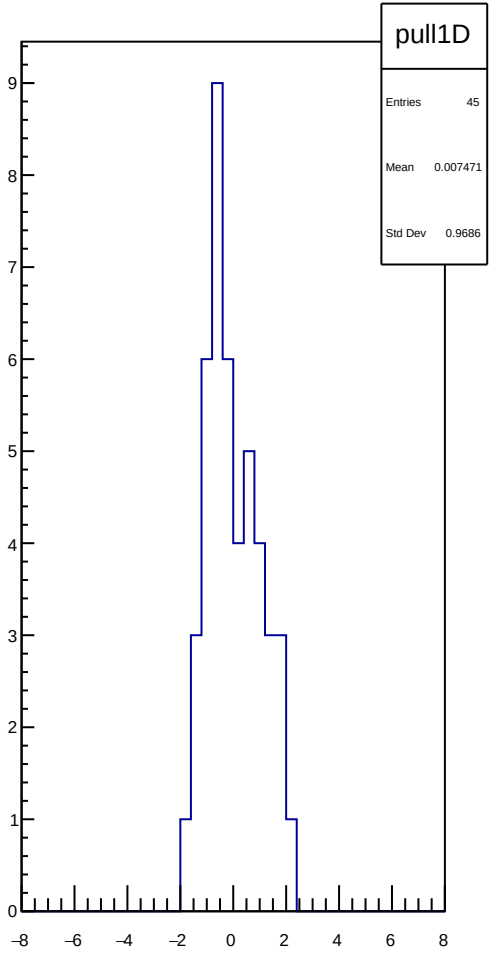

pull1D
Entries 45
Mean 0.007471
Std Dev 0.9686
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

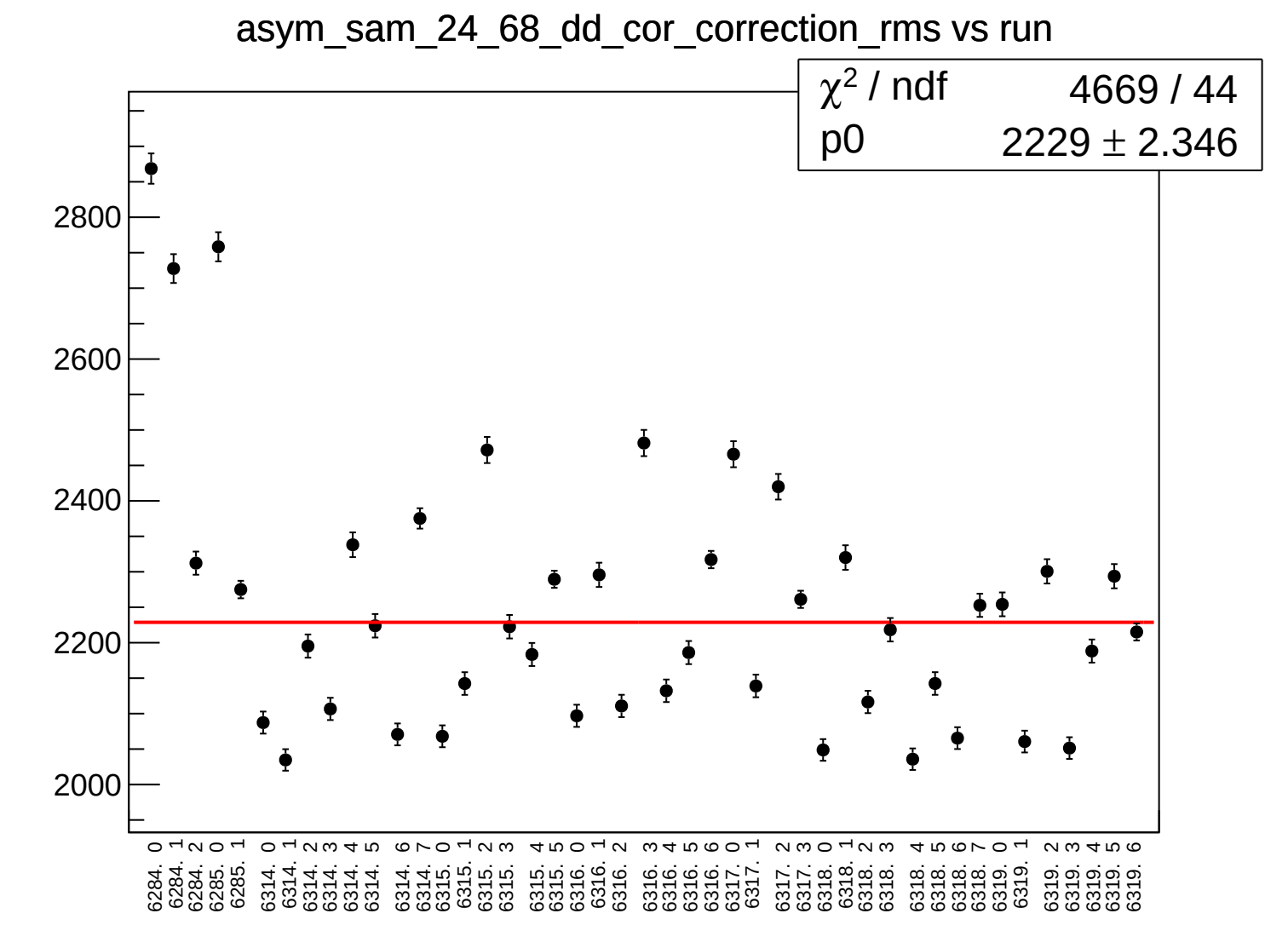

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4669 / 44
p0 2229 ± 2.346
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

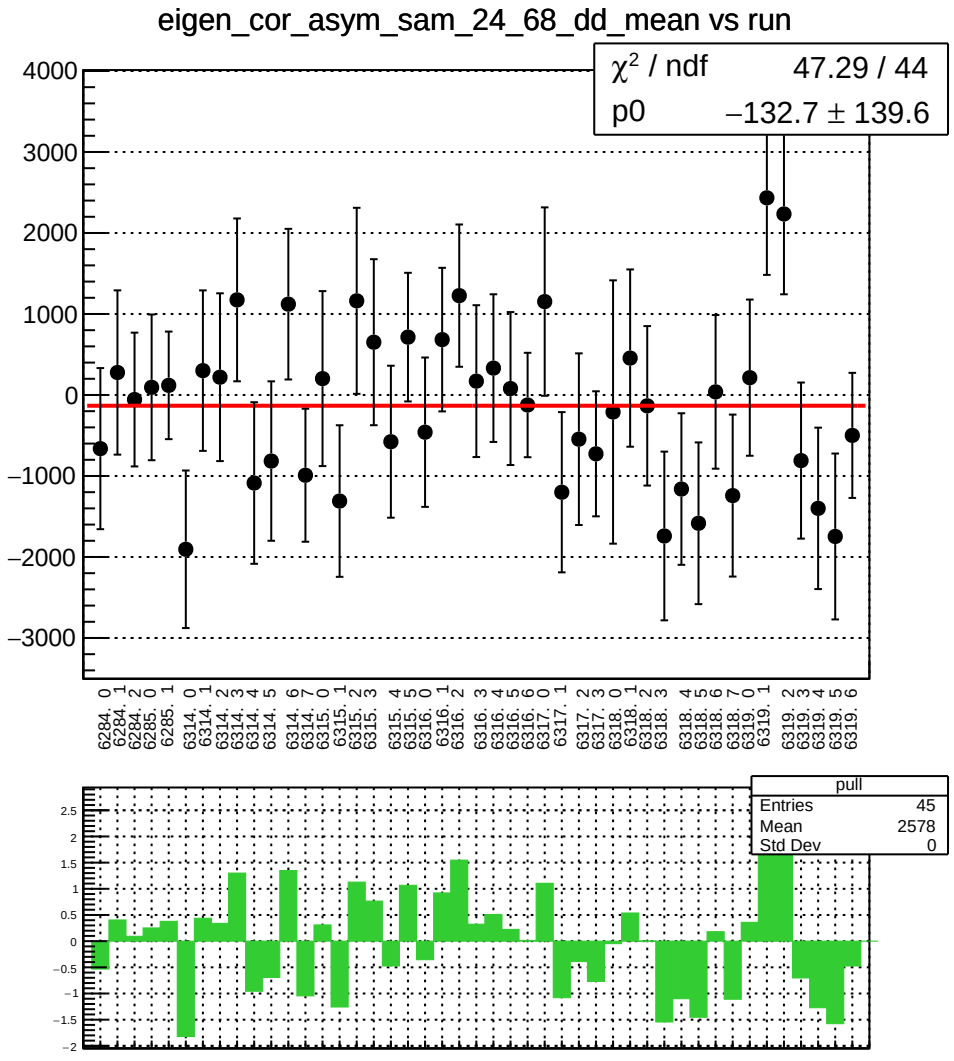

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 47.29 / 44
p0 −132.7 ± 139.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2578
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0004938
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

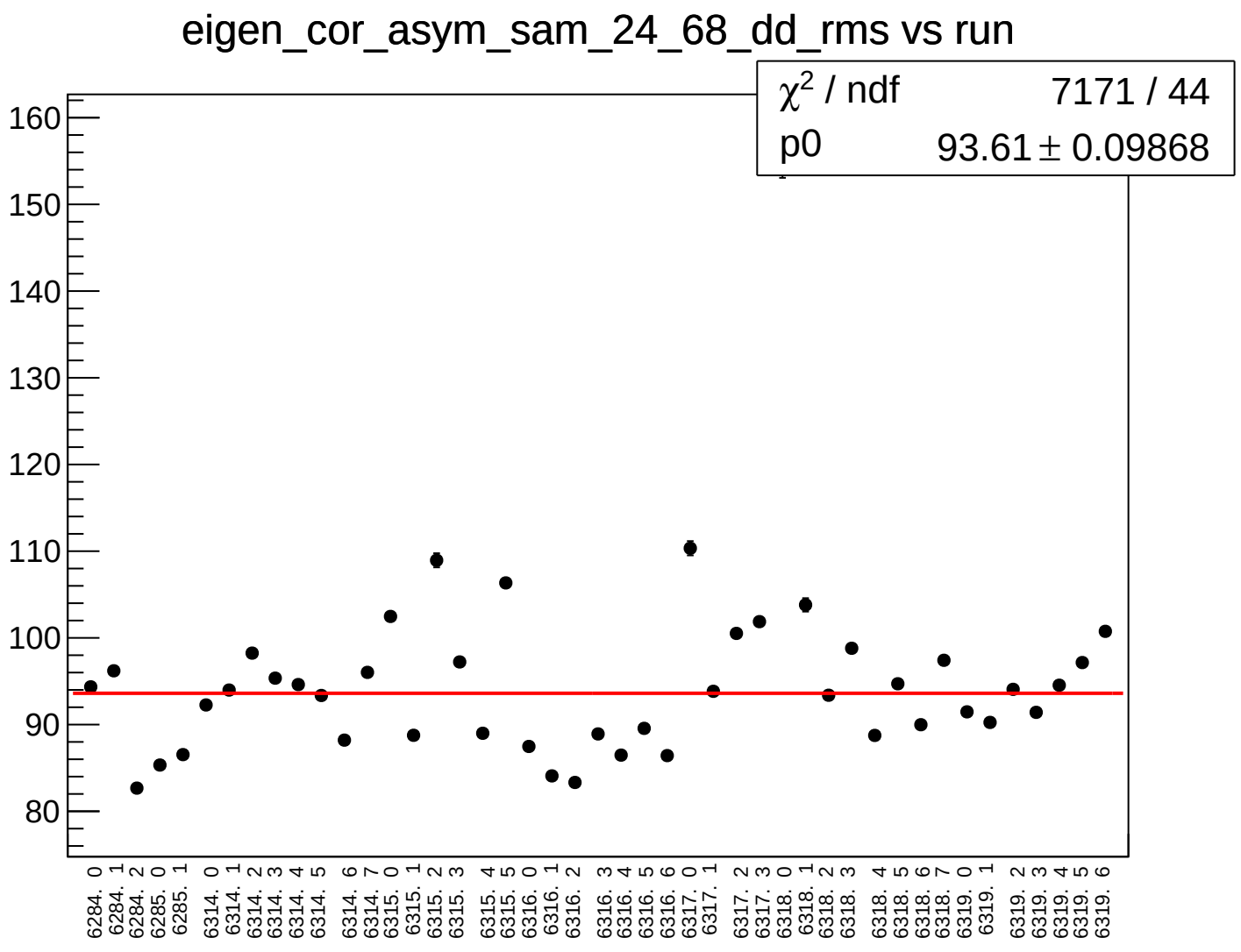

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7171 / 44
p0 93.61 ± 0.09868
160
150
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

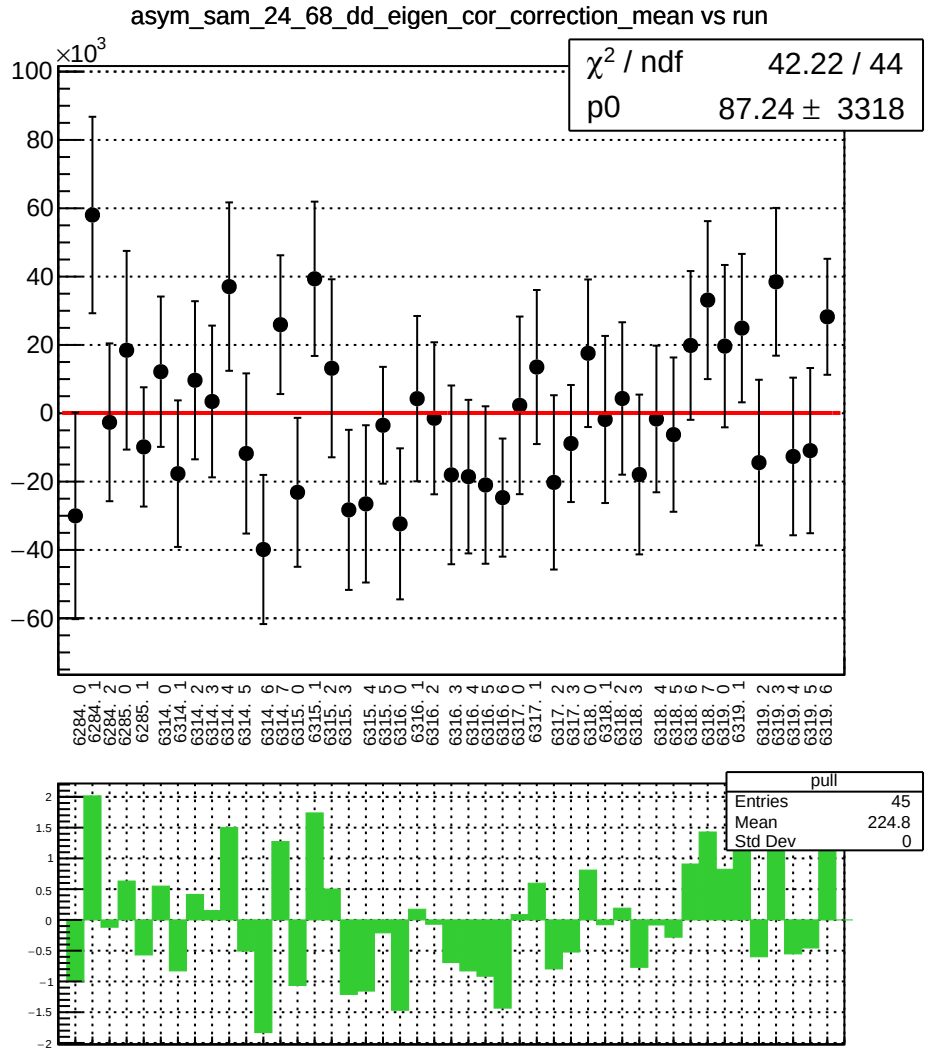

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 42.22 / 44
p0 87.24 ± 3318
pull
Entries 45
Mean 224.8
Std Dev 0

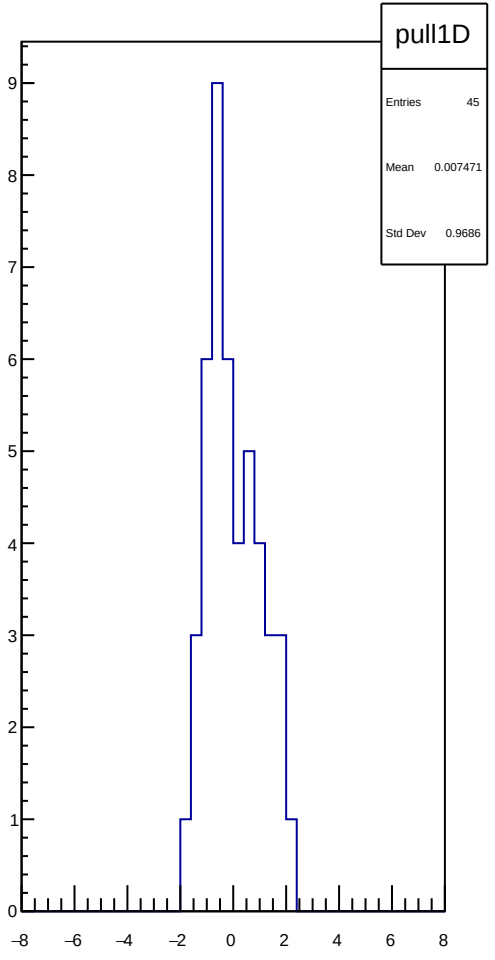

pull1D
Entries 45
Mean 0.007471
Std Dev 0.9686

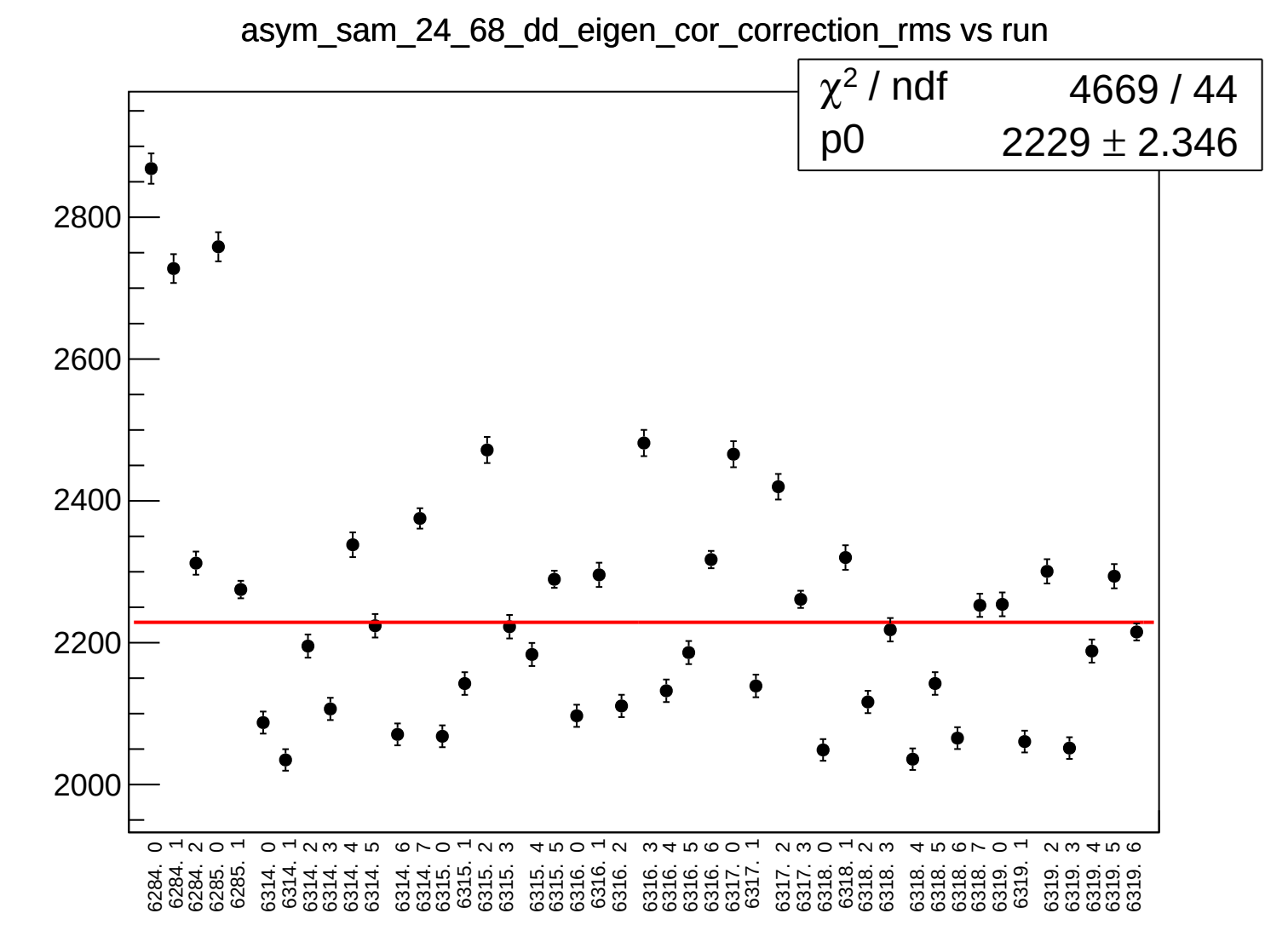

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4669 / 44
p0 2229 ± 2.346
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

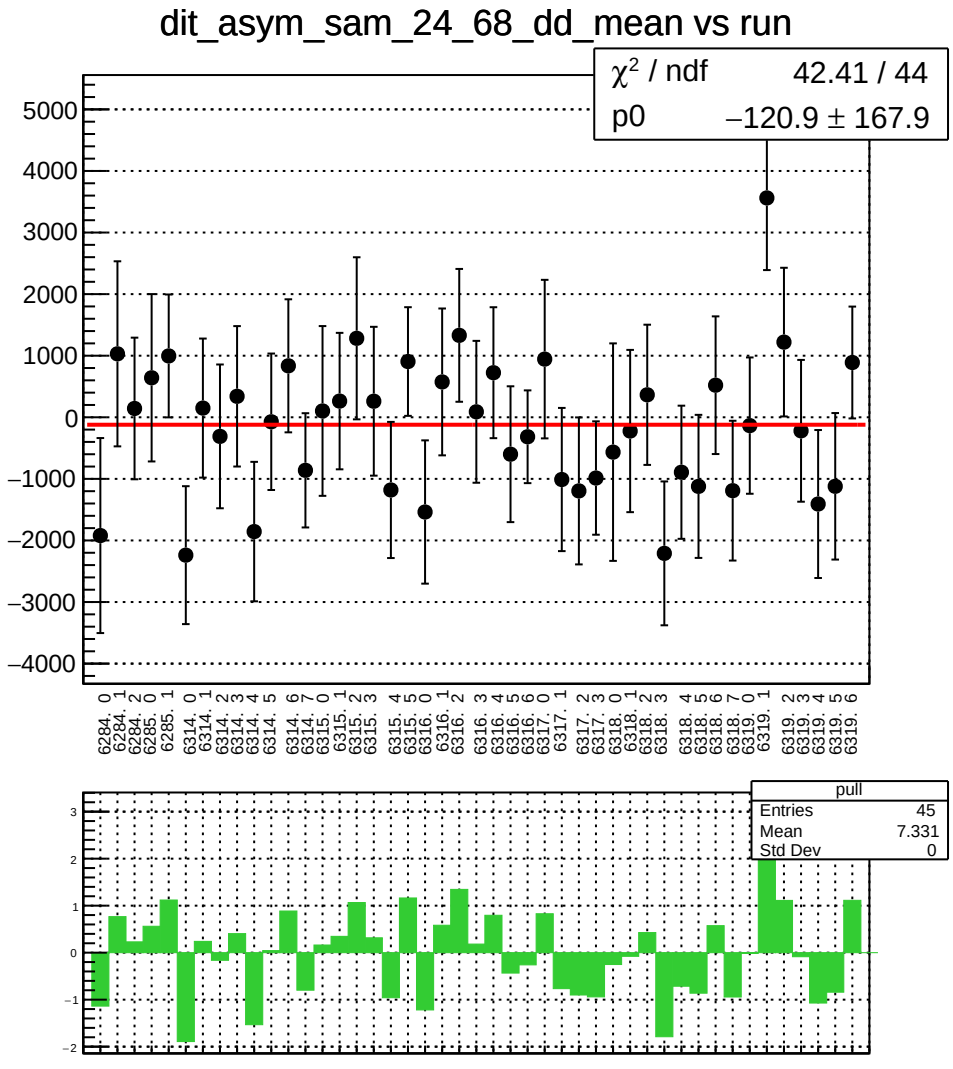

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 47.29 / 44
p0 −132.7 ± 139.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2578
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0004938
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

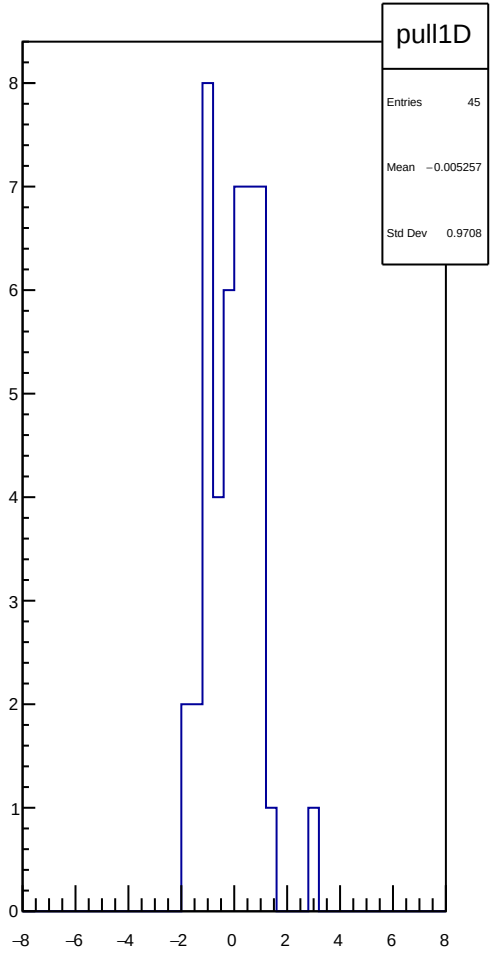

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7171 / 44
p0 93.61 ± 0.09868
160
150
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

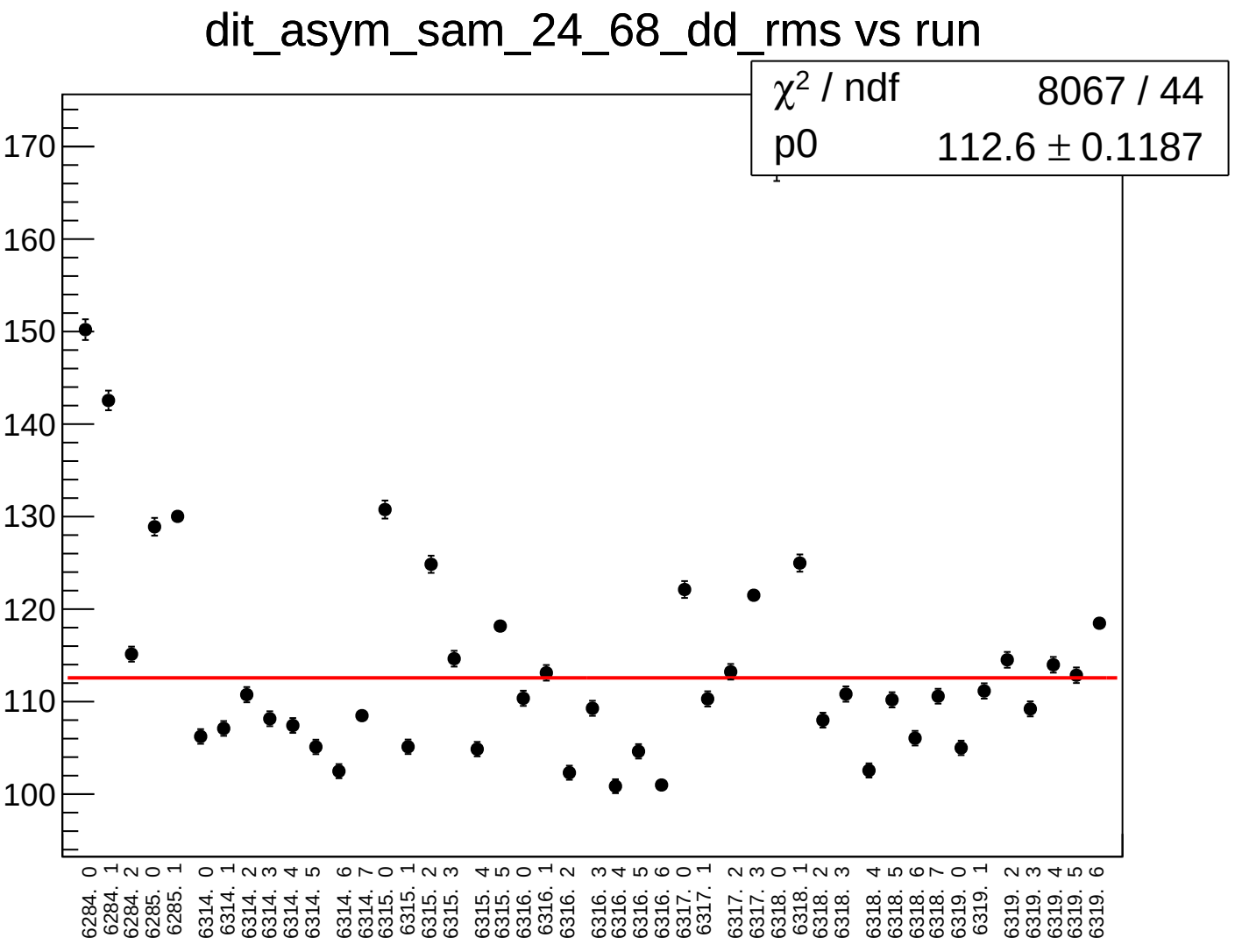

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.22 / 44
p0 87.24 ± 3318
pull
Entries 45
Mean 224.8
Std Dev 0

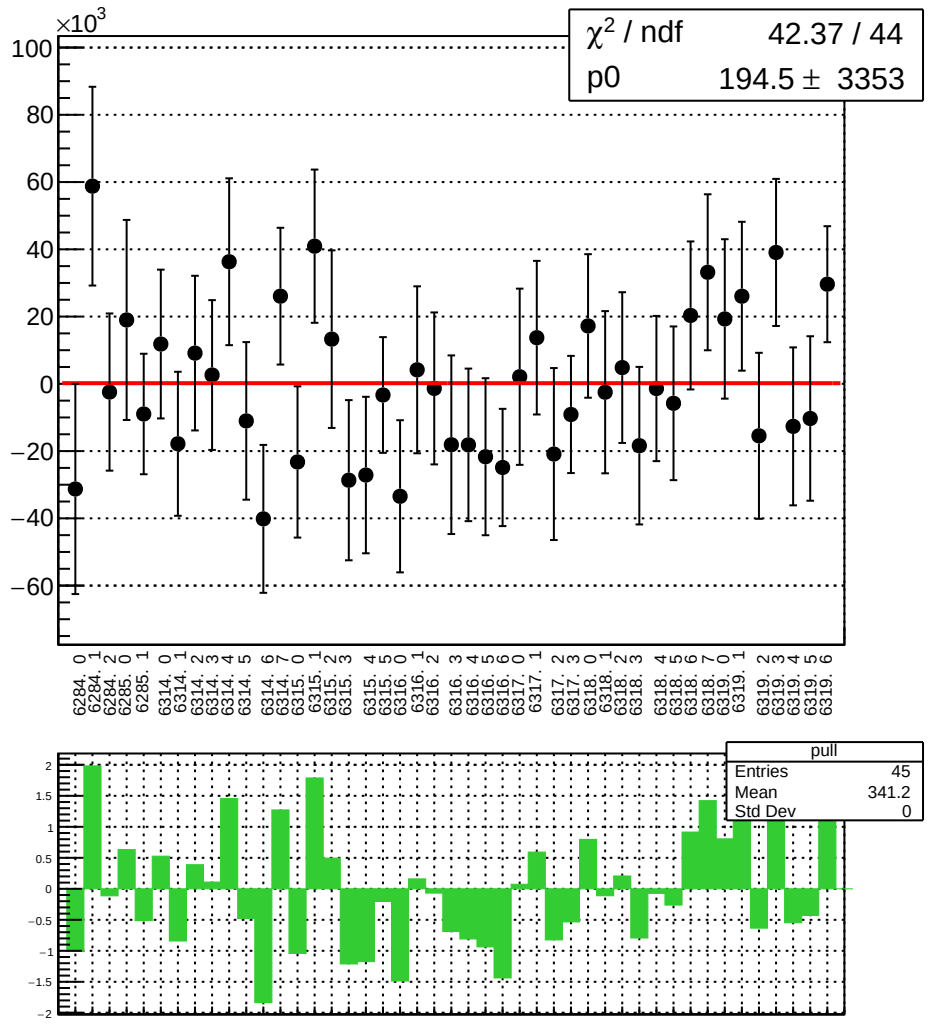

pull1D
Entries 45
Mean 0.007471
Std Dev 0.9686

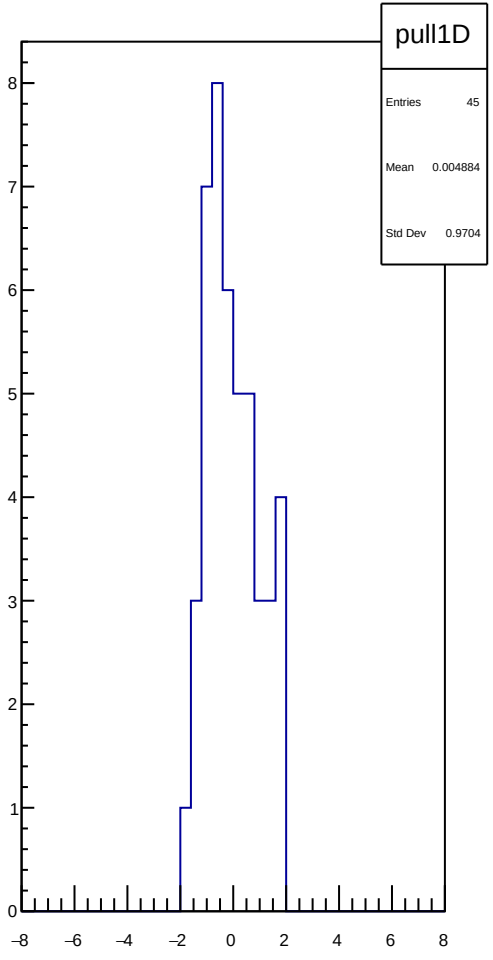

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4669 / 44
p0 2229 ± 2.346
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

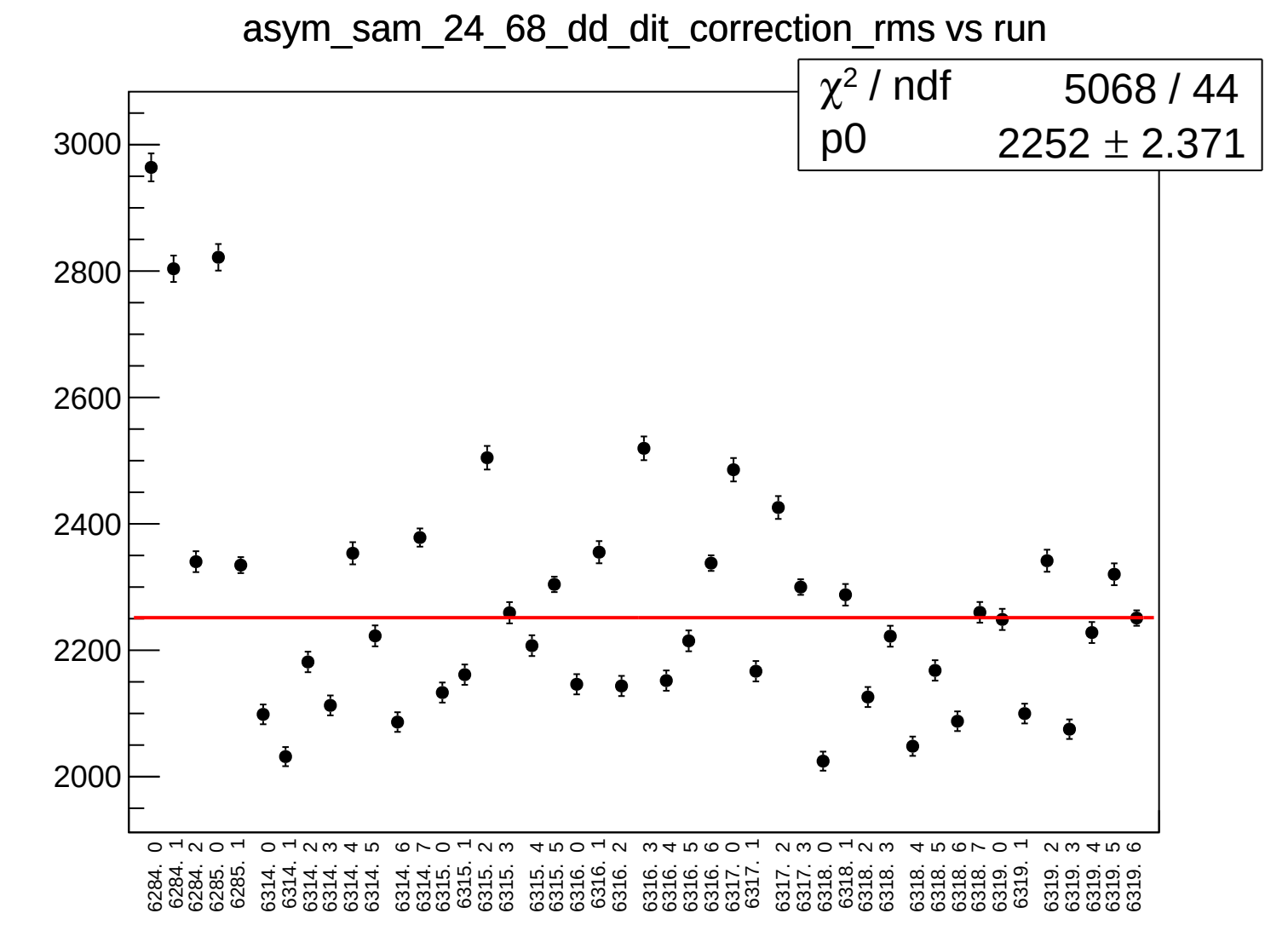

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 42.41 / 44
p0 −120.9 ± 167.9
pull
Entries 45
Mean 7.331
Std Dev 0

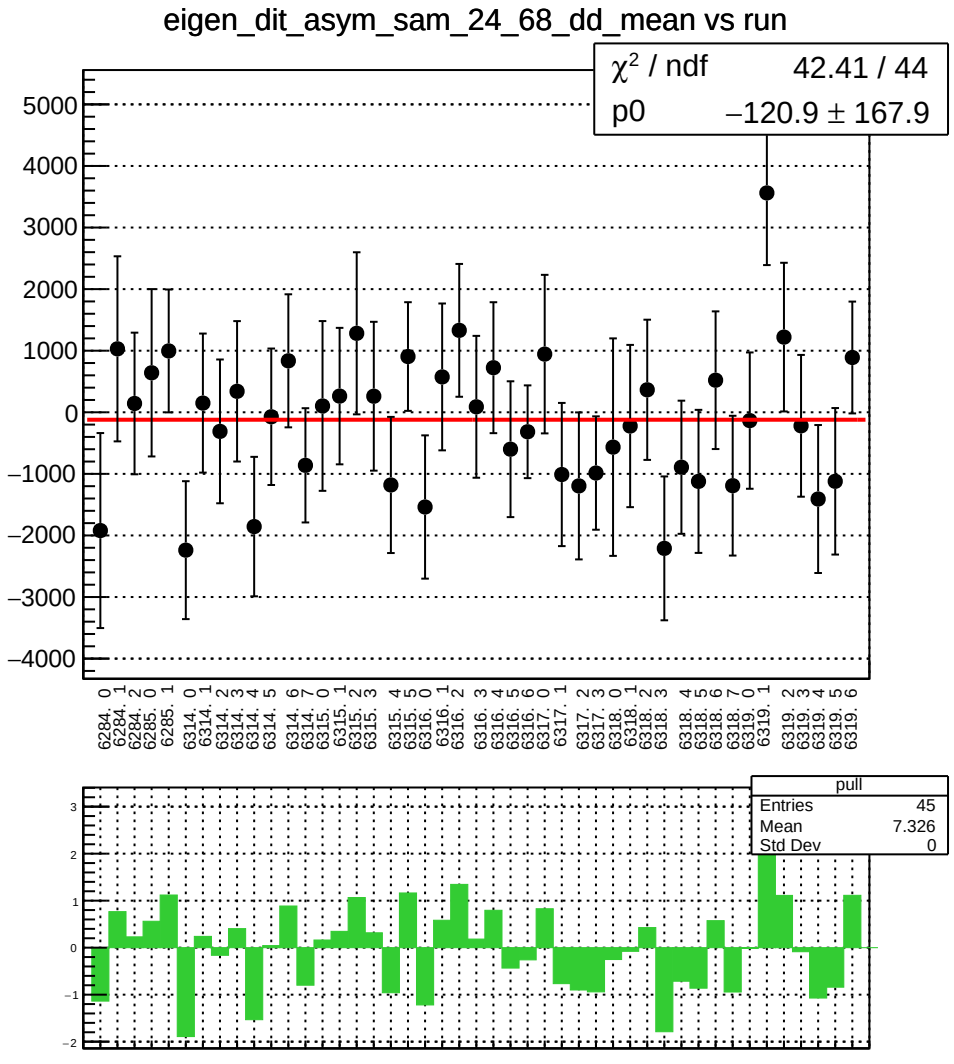

pull1D
Entries 45
Mean −0.005257
Std Dev 0.9708

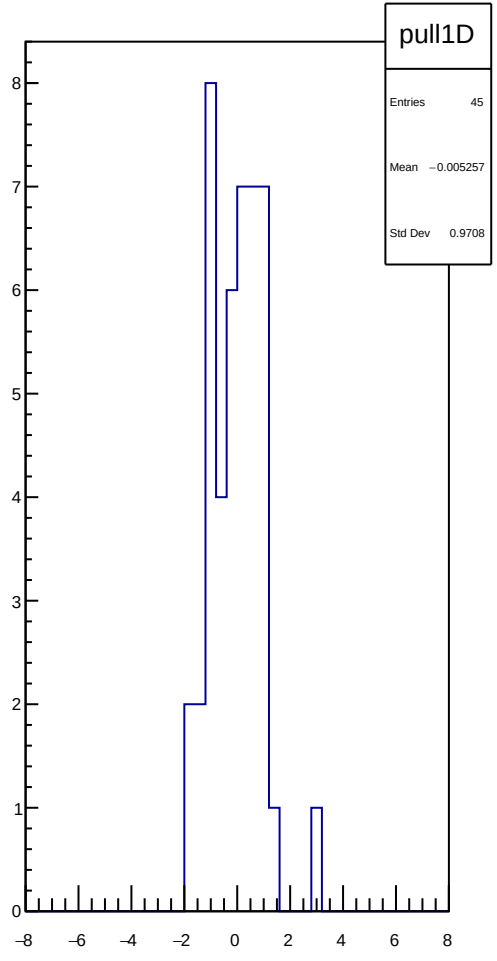

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 8067 / 44
p0 112.6 ± 0.1187
170
160
150
140
130
120
110
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

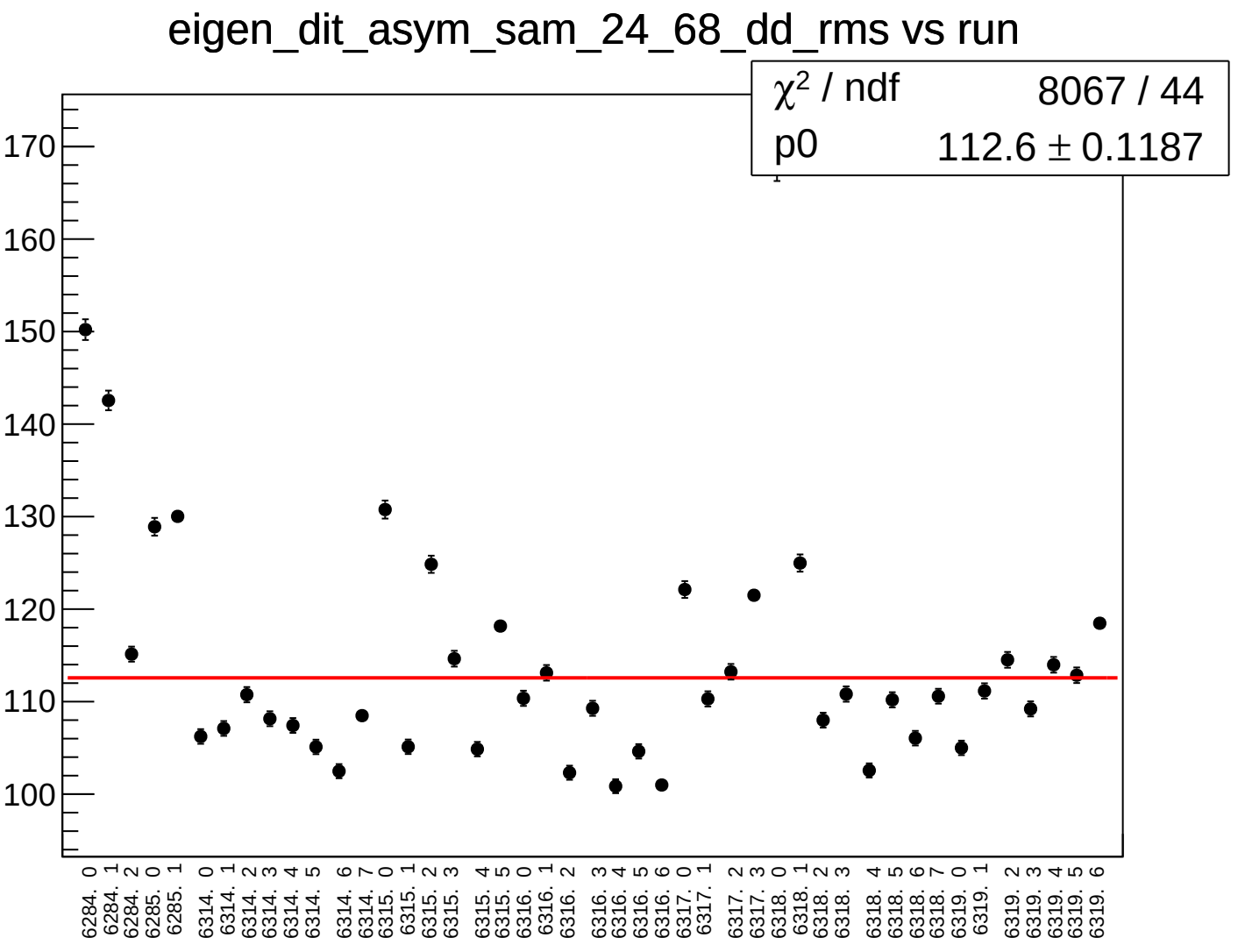

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 42.37 / 44
p0 194.5 ± 3353
pull
Entries 45
Mean 341.2
Std Dev 0

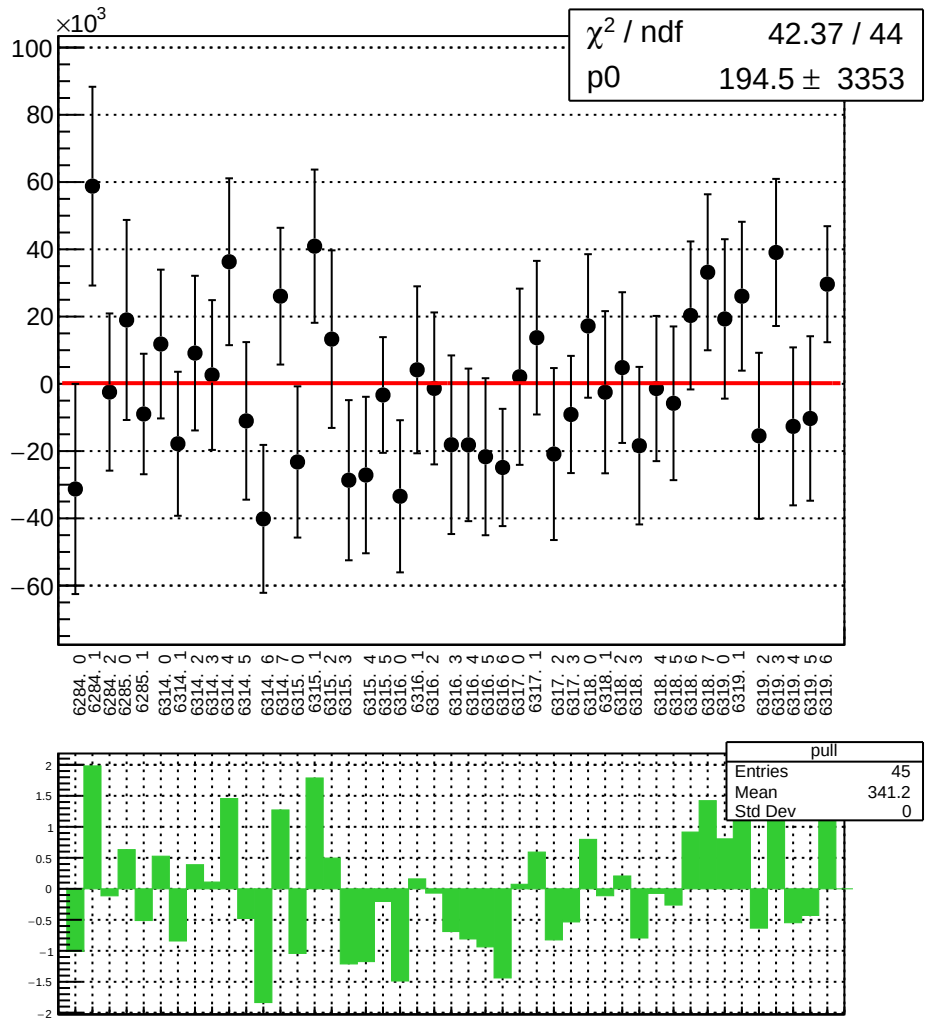

pull1D
Entries 45
Mean 0.004884
Std Dev 0.9704

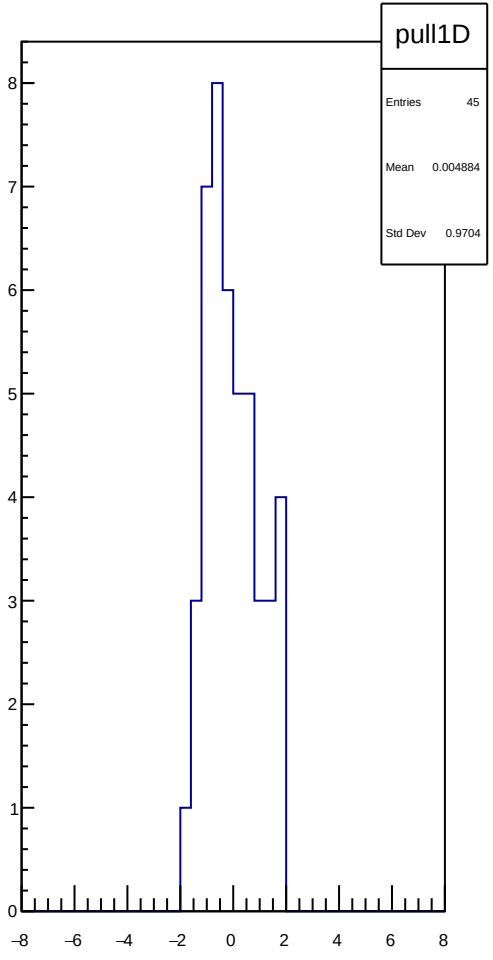

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 5068 / 44
p0 2252 ± 2.371
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

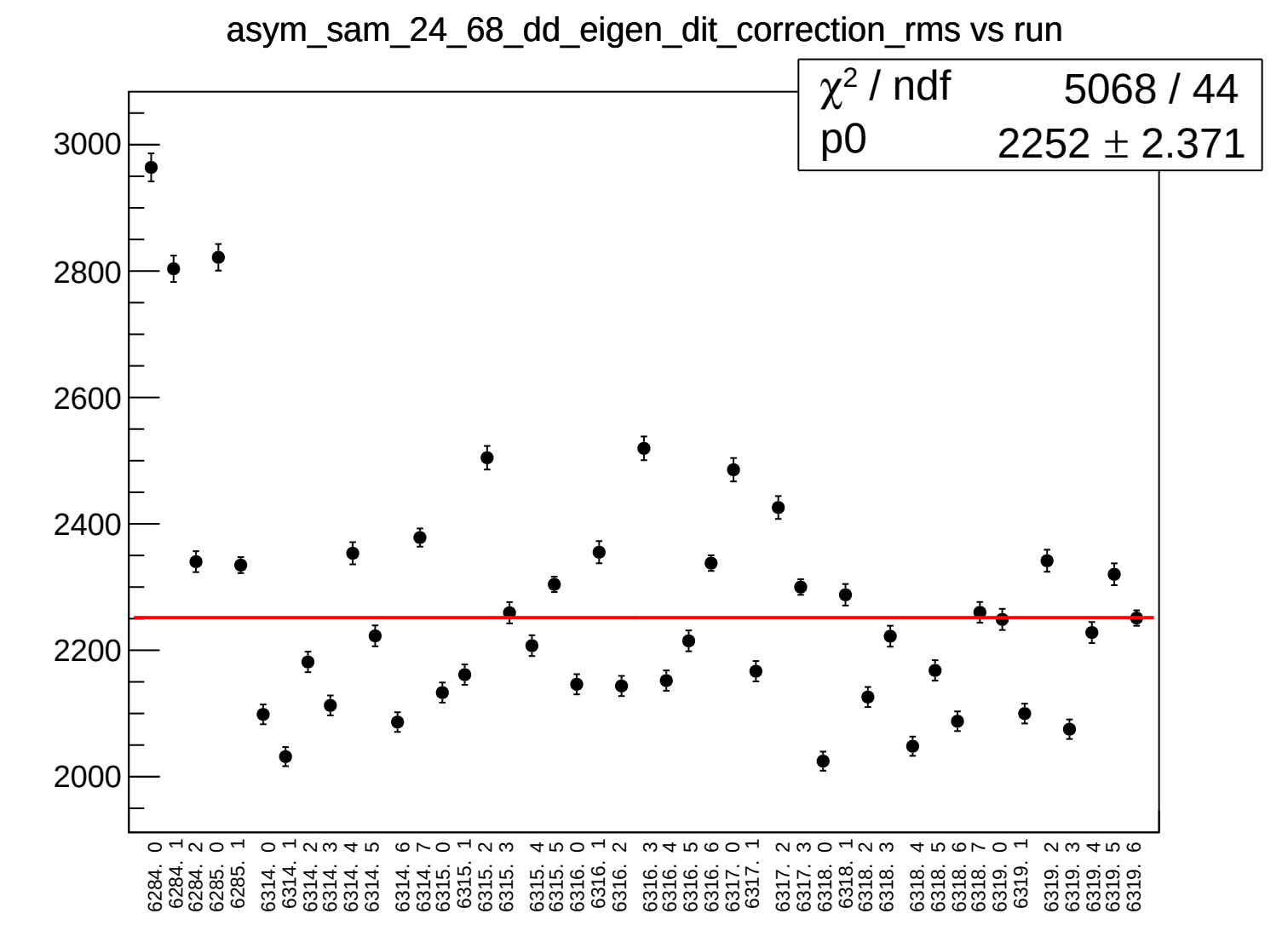

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 42.41 / 44
p0 −120.9 ± 167.9
pull
Entries 45
Mean 7.326
Std Dev 0

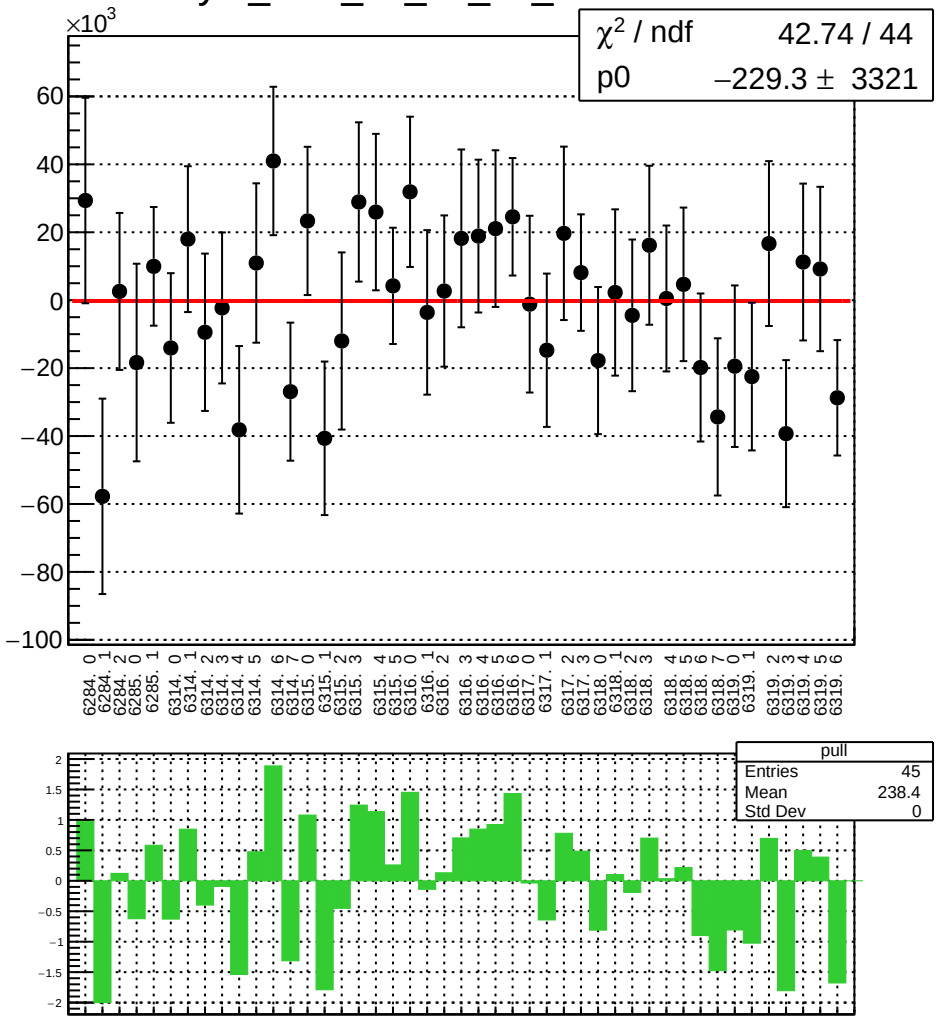

pull1D
Entries 45
Mean −0.005257
Std Dev 0.9708

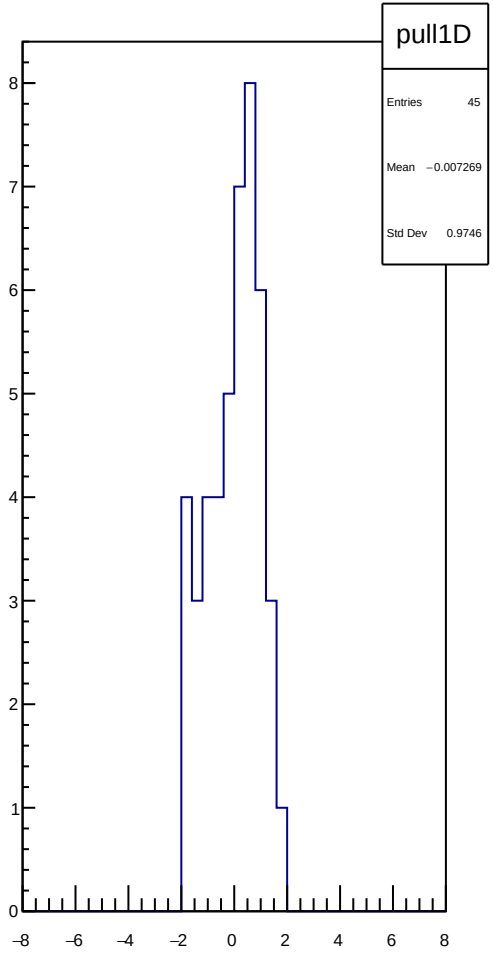

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 8067 / 44
p0 112.6 ± 0.1187
170
160
150
140
130
120
110
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

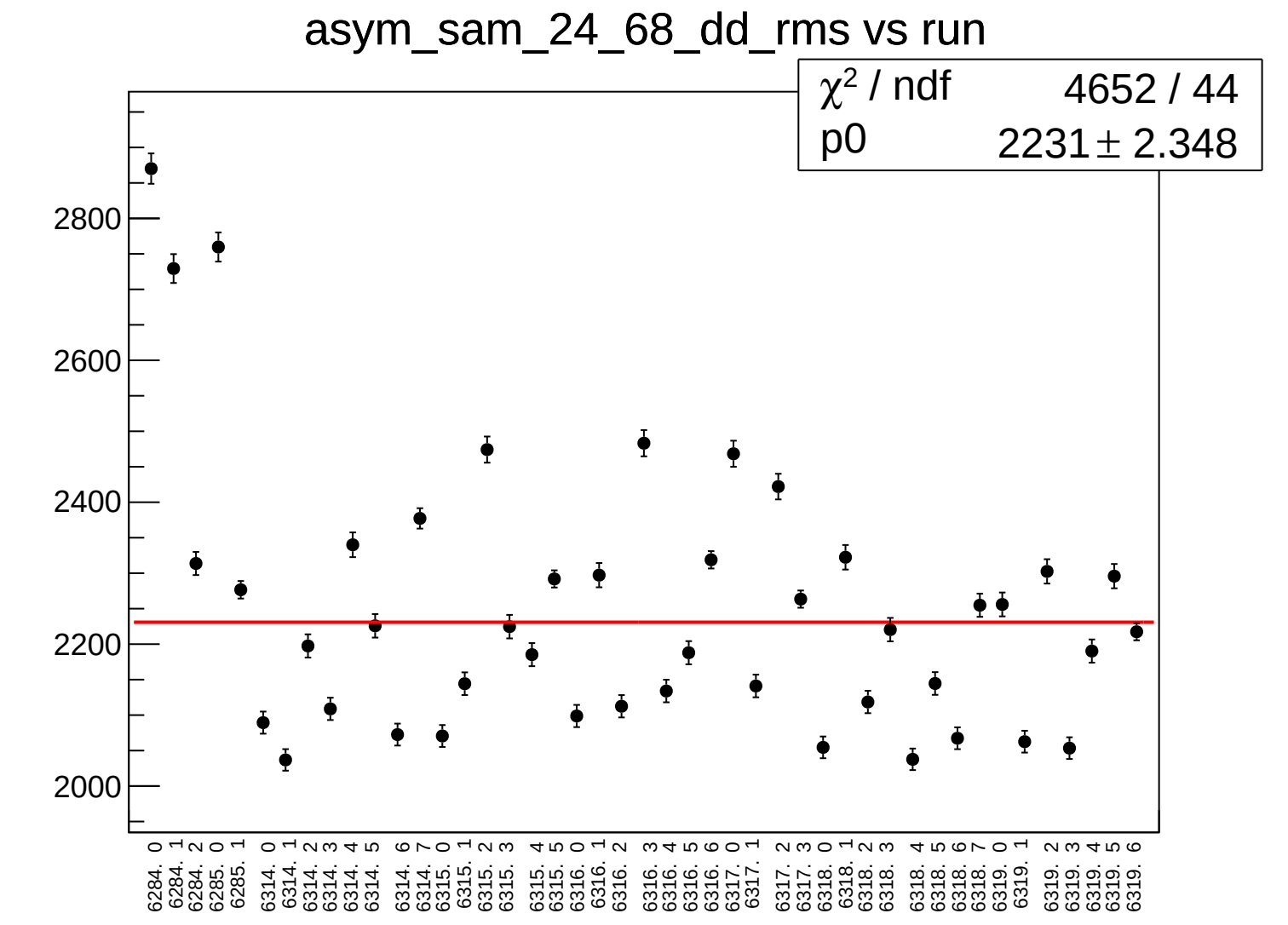

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.37 / 44
p0 194.5 ± 3353
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 341.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

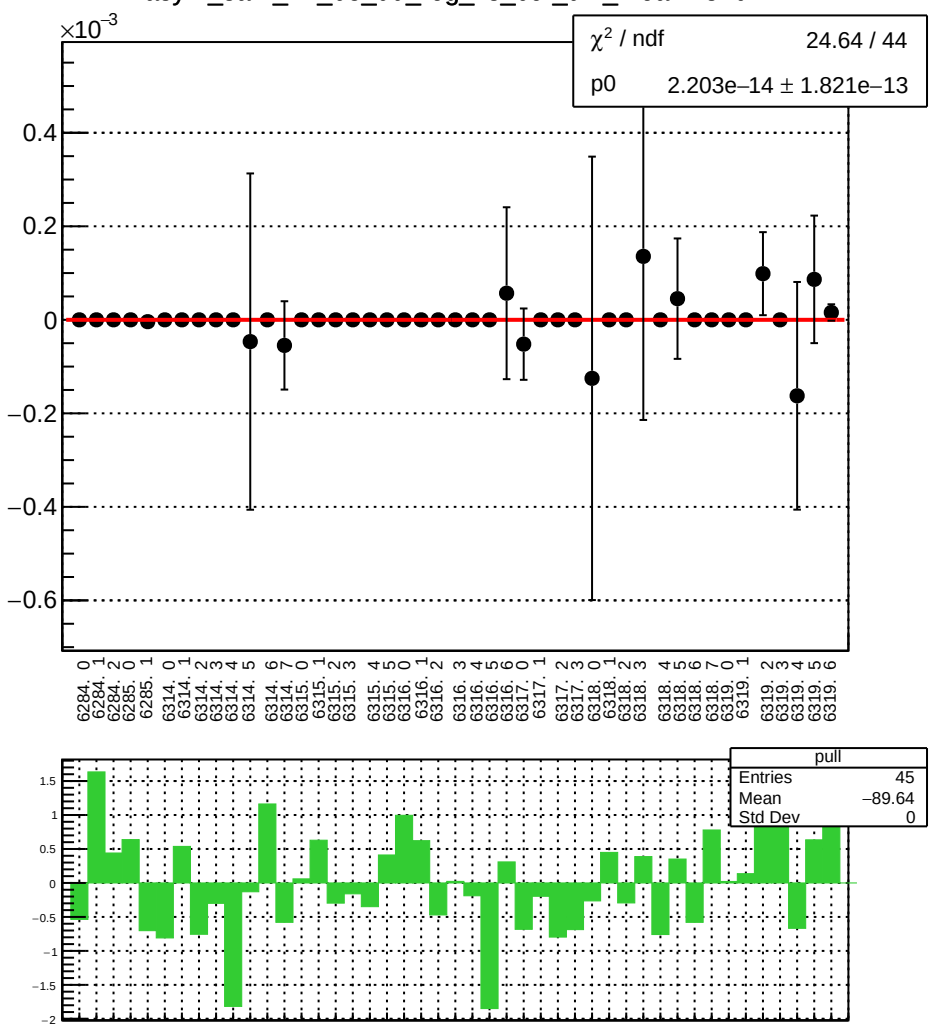

pull1D
Entries 45
Mean 0.004884
Std Dev 0.9704
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

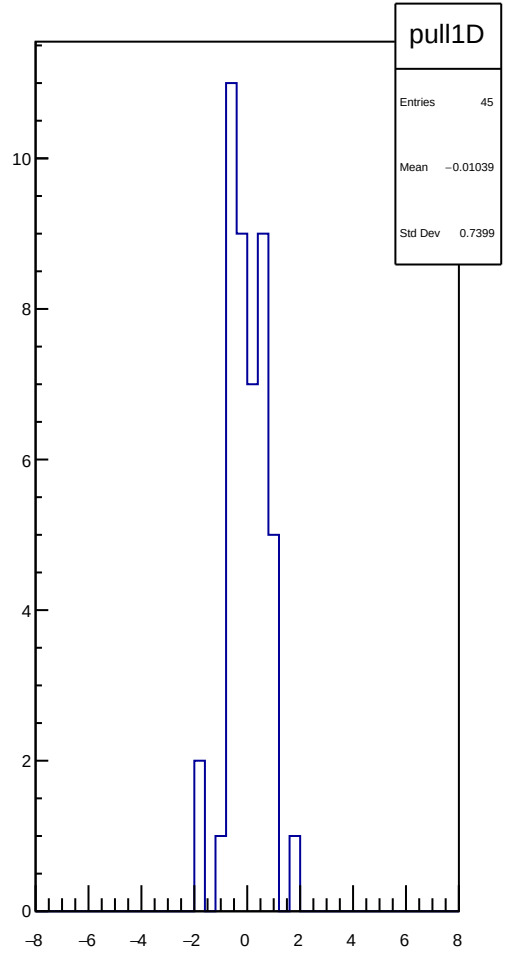

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 5068 / 44
p0 2252 ± 2.371
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

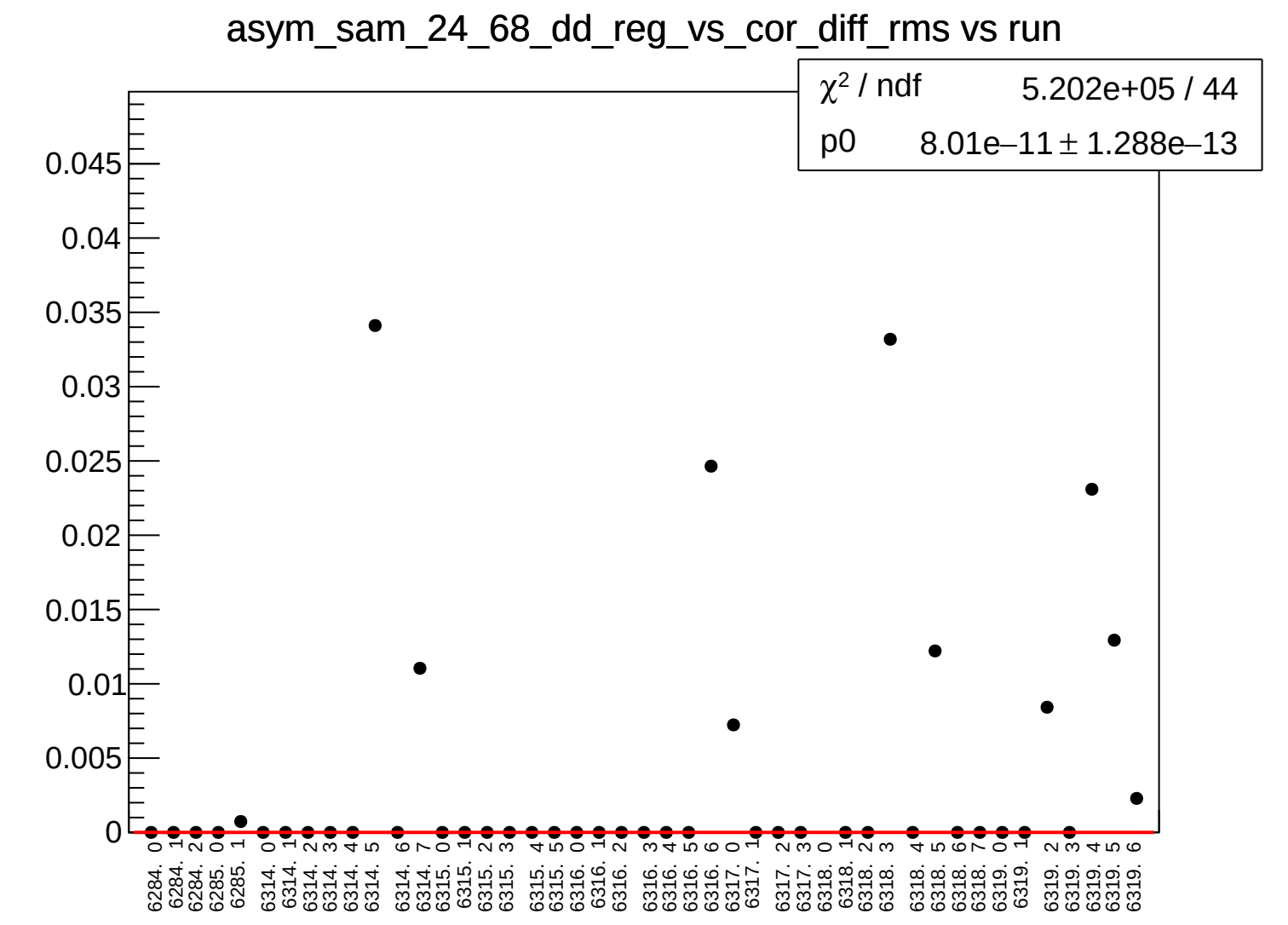

asym_sam_24_68_dd_mean vs run
χ² / ndf 42.74 / 44
p0 −229.3 ± 3321
×10³
pull
Entries 45
Mean 238.4
Std Dev 0


pull1D
Entries 45
Mean −0.007269
Std Dev 0.9746


asym_sam_24_68_dd_rms vs run
χ² / ndf 4652 / 44
p0 2231 ± 2.348
2800
2600
2400
2200
2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 24.64 / 44
p0 2.203e−14 ± 1.821e−13
pull
Entries 45
Mean −89.64
Std Dev 0


pull1D
Entries 45
Mean −0.01039
Std Dev 0.7399


asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.202e+05 / 44
p0 8.01e−11 ± 1.288e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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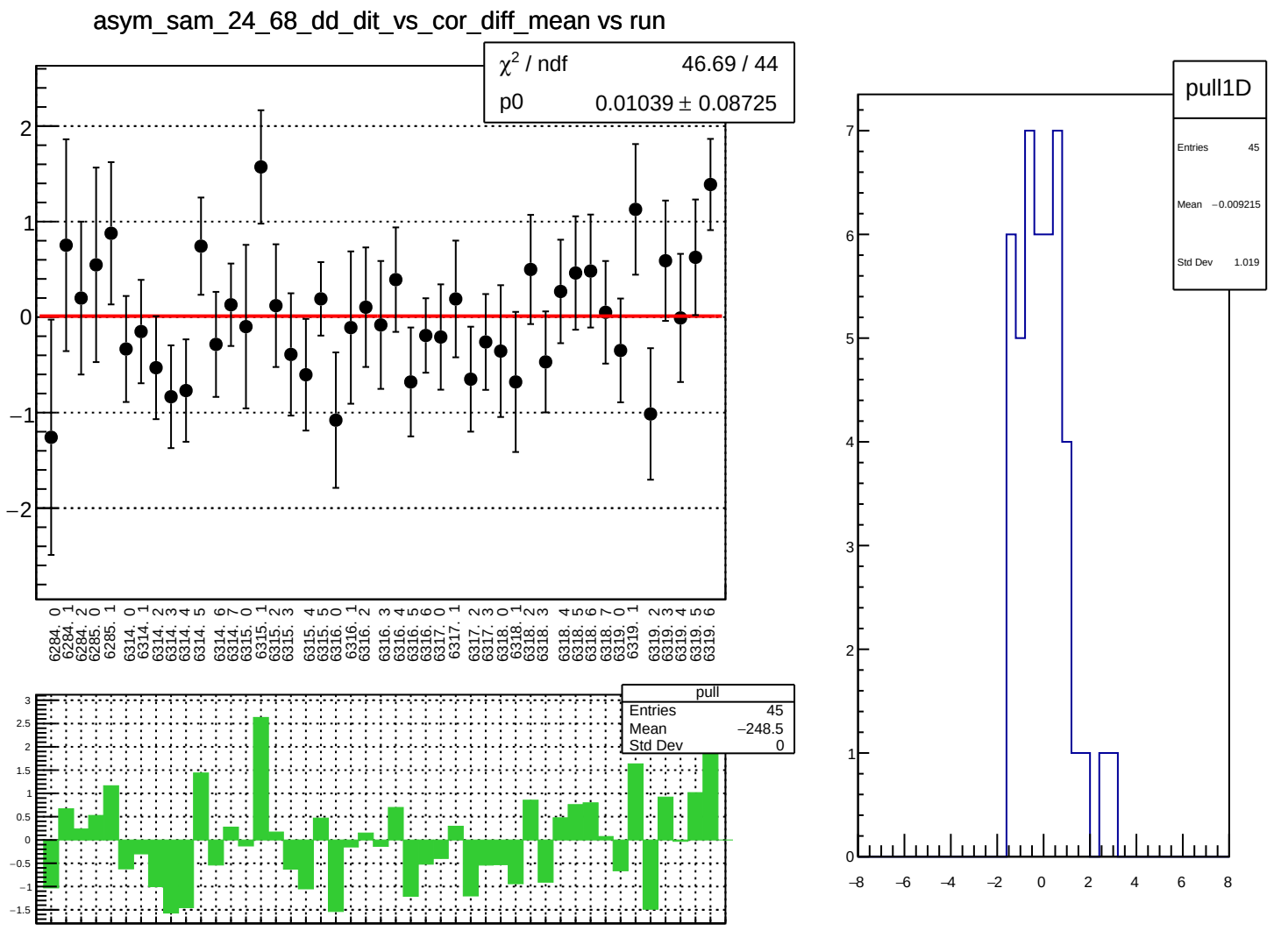
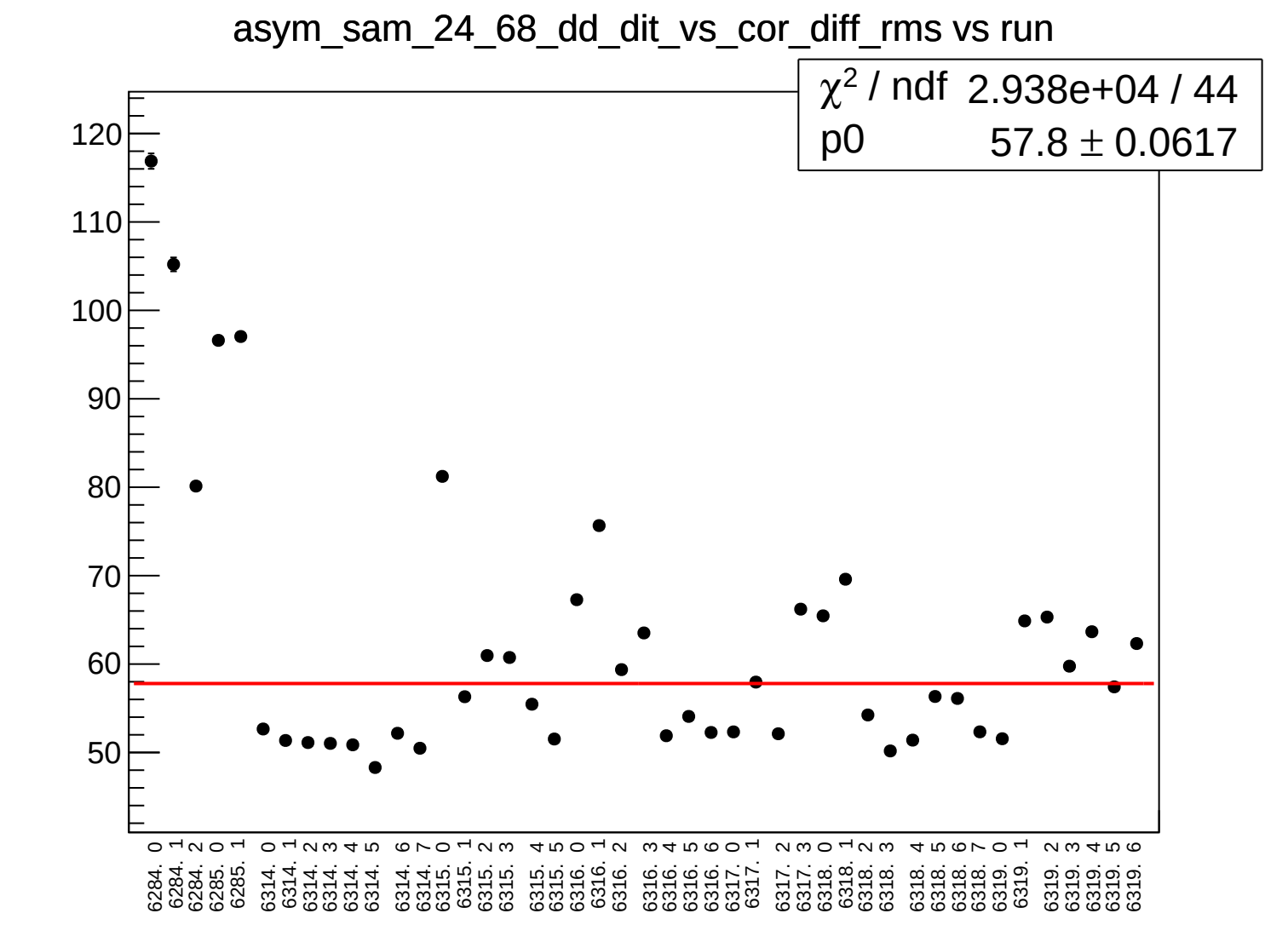
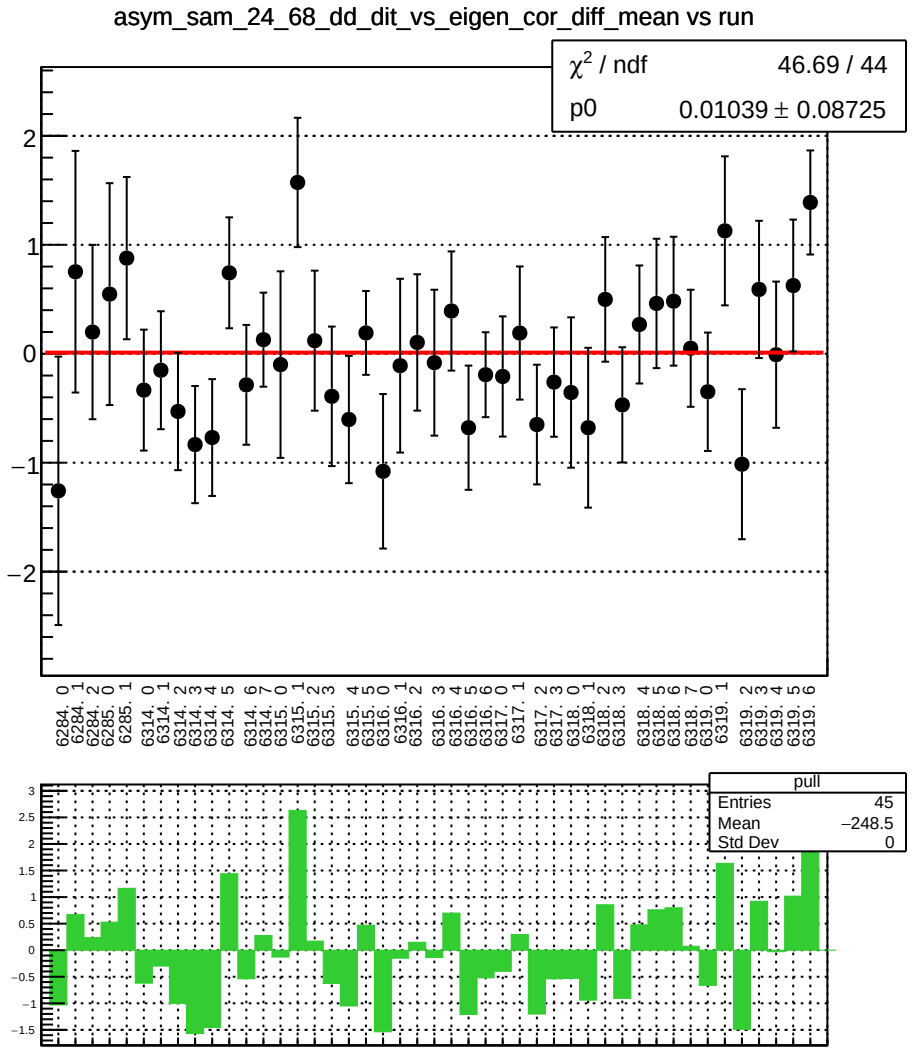
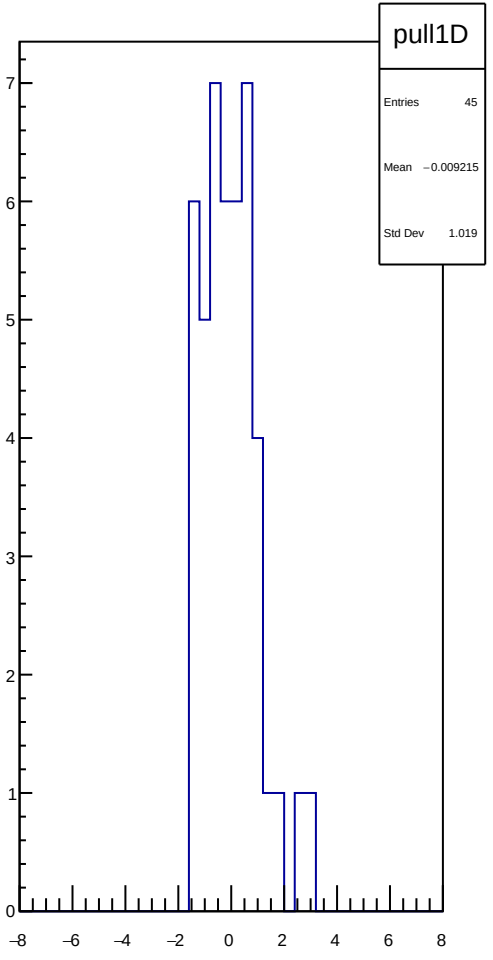
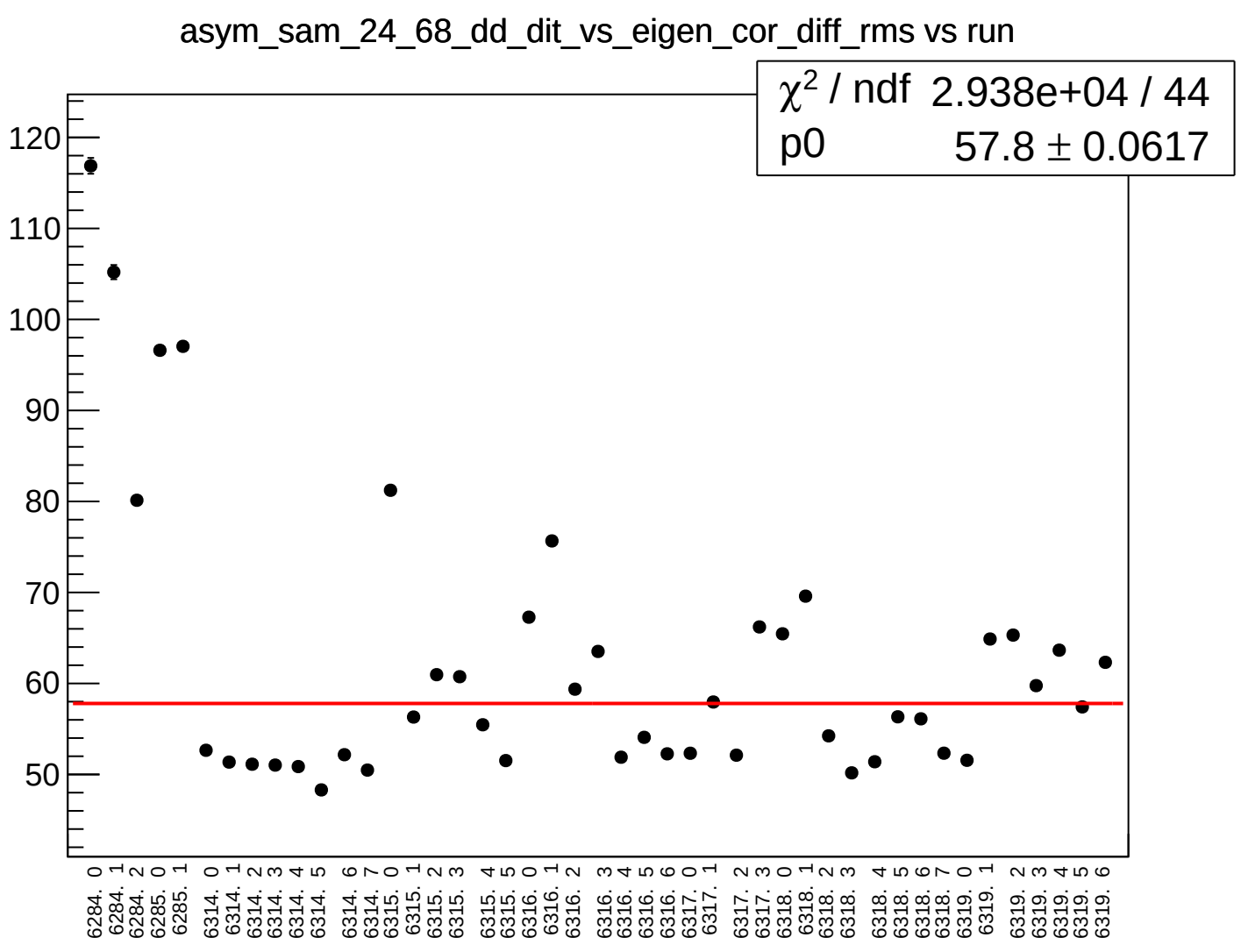
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

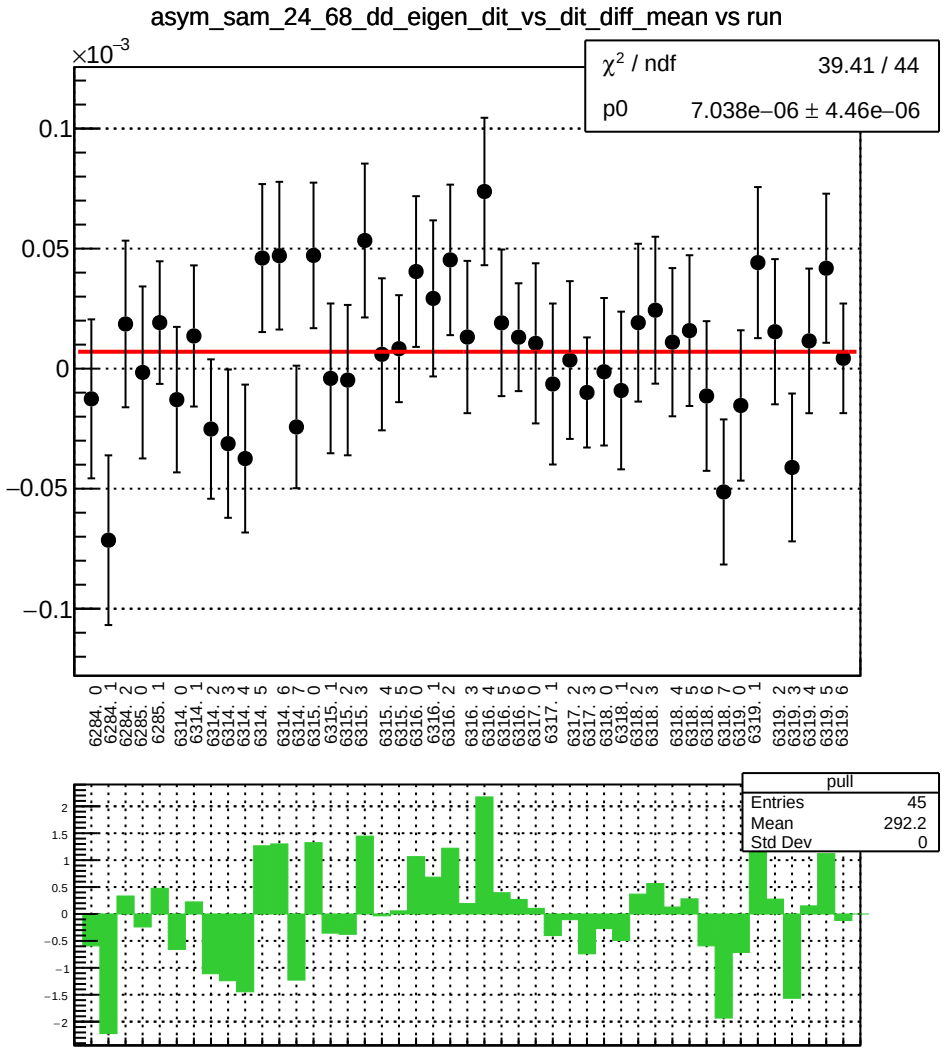

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.69 / 44
p0 0.01039 ± 0.08725
pull
Entries 45
Mean −248.5
Std Dev 0
pull1D
Entries 45
Mean −0.009215
Std Dev 1.019

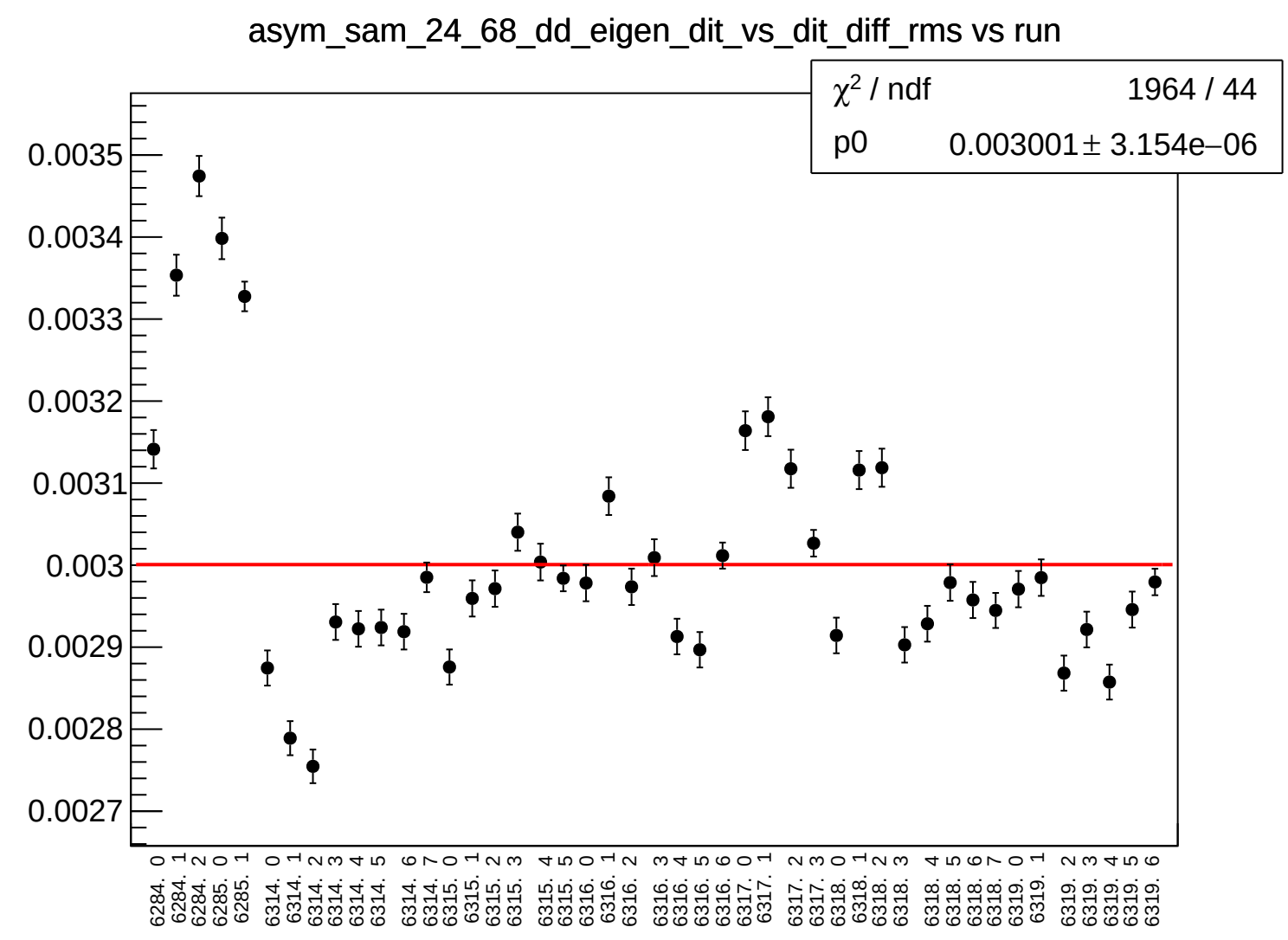

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.938e+04 / 44
p0 57.8 ± 0.0617
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

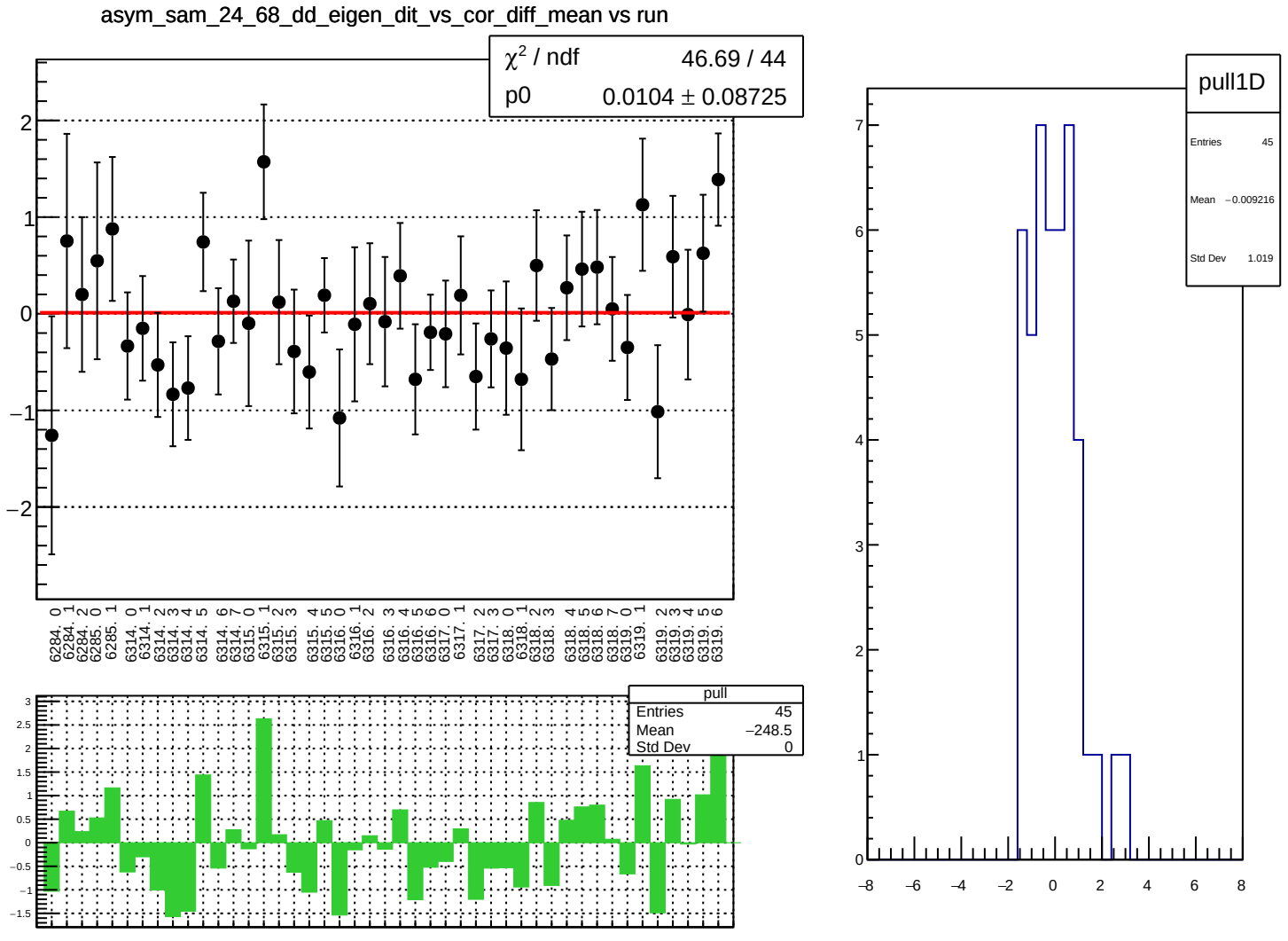

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.69 / 44
p0 0.01039 ± 0.08725
pull
Entries 45
Mean −248.5
Std Dev 0

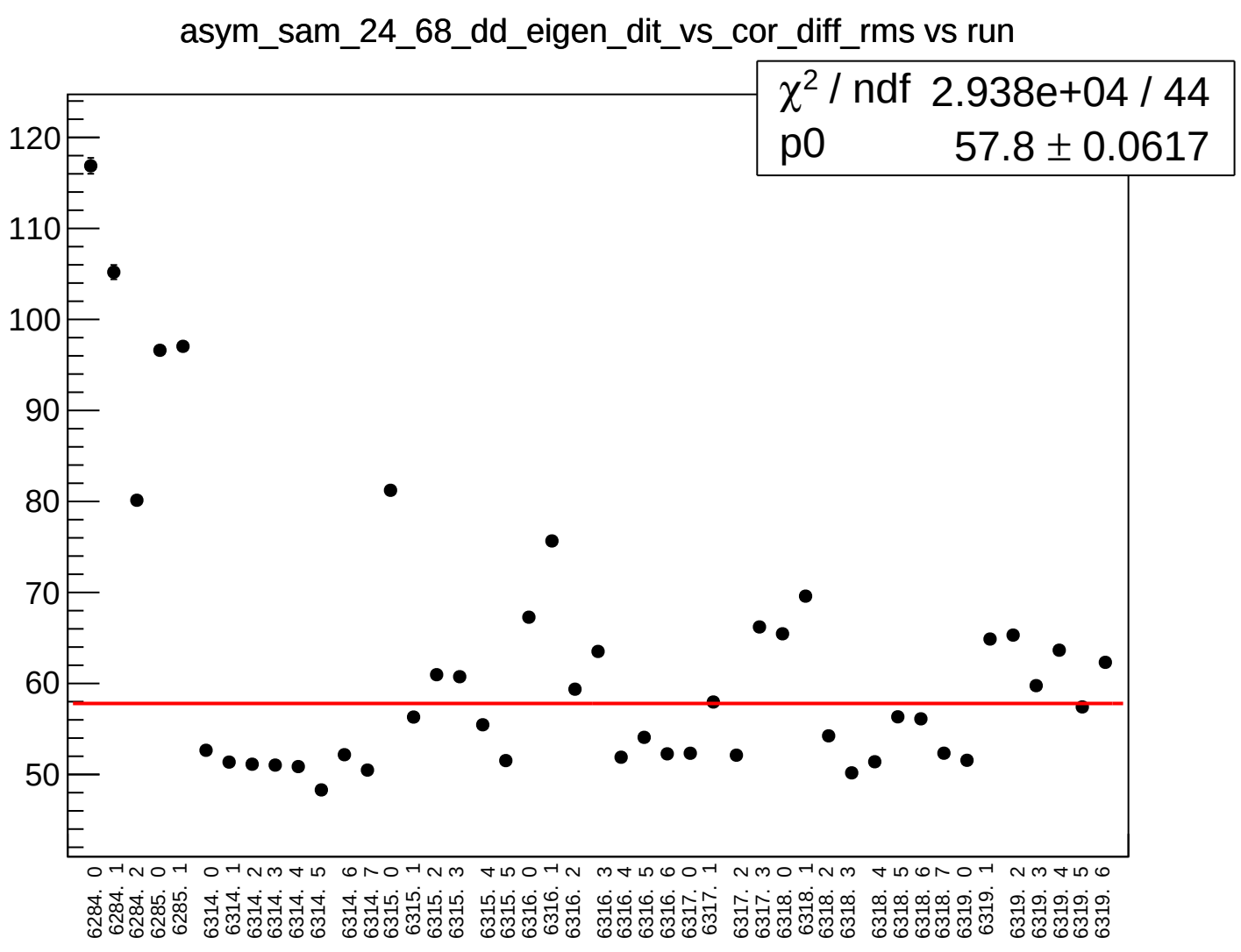

pull1D
Entries 45
Mean −0.009215
Std Dev 1.019

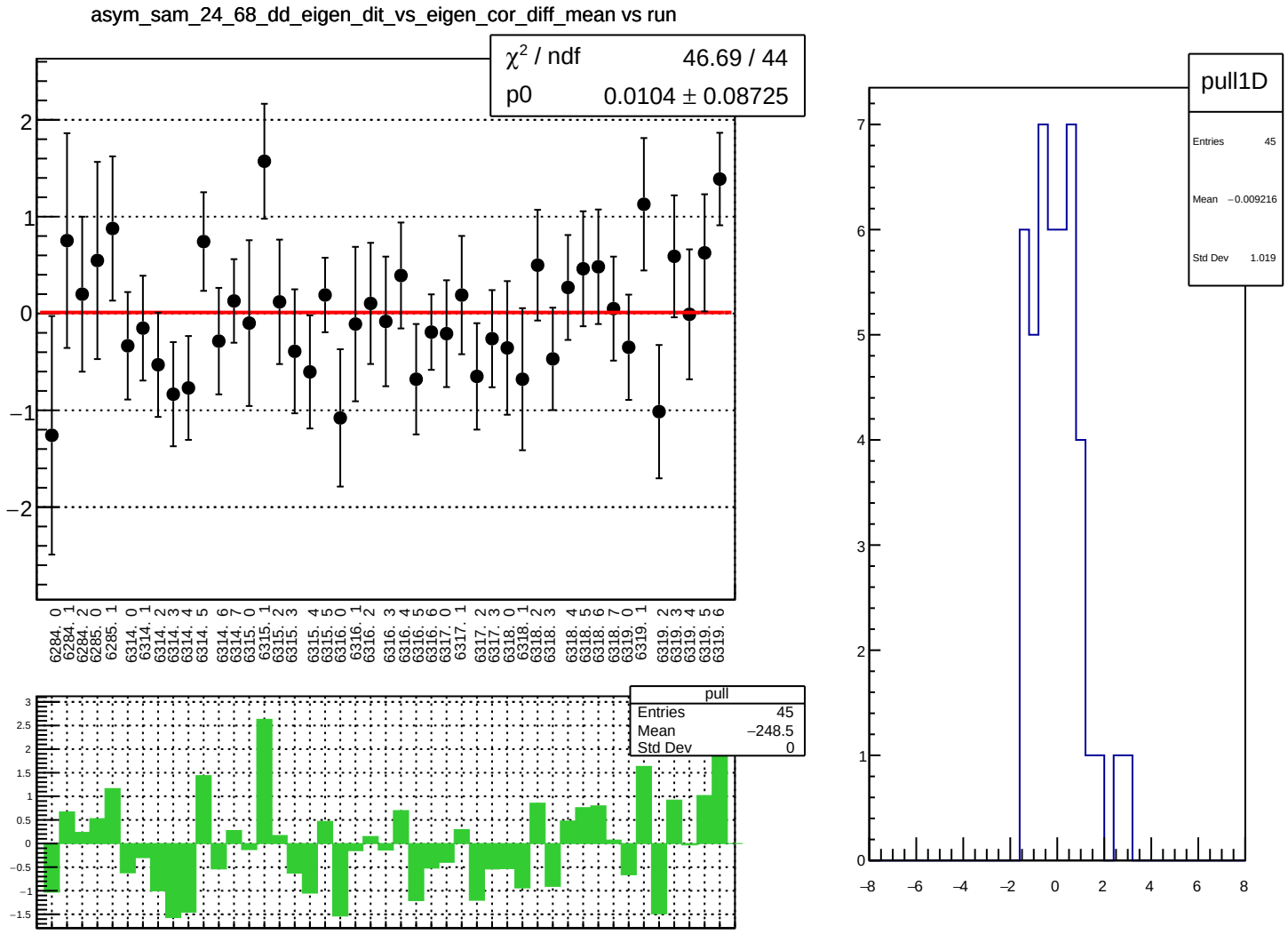

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.938e+04 / 44
p0 57.8 ± 0.0617
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

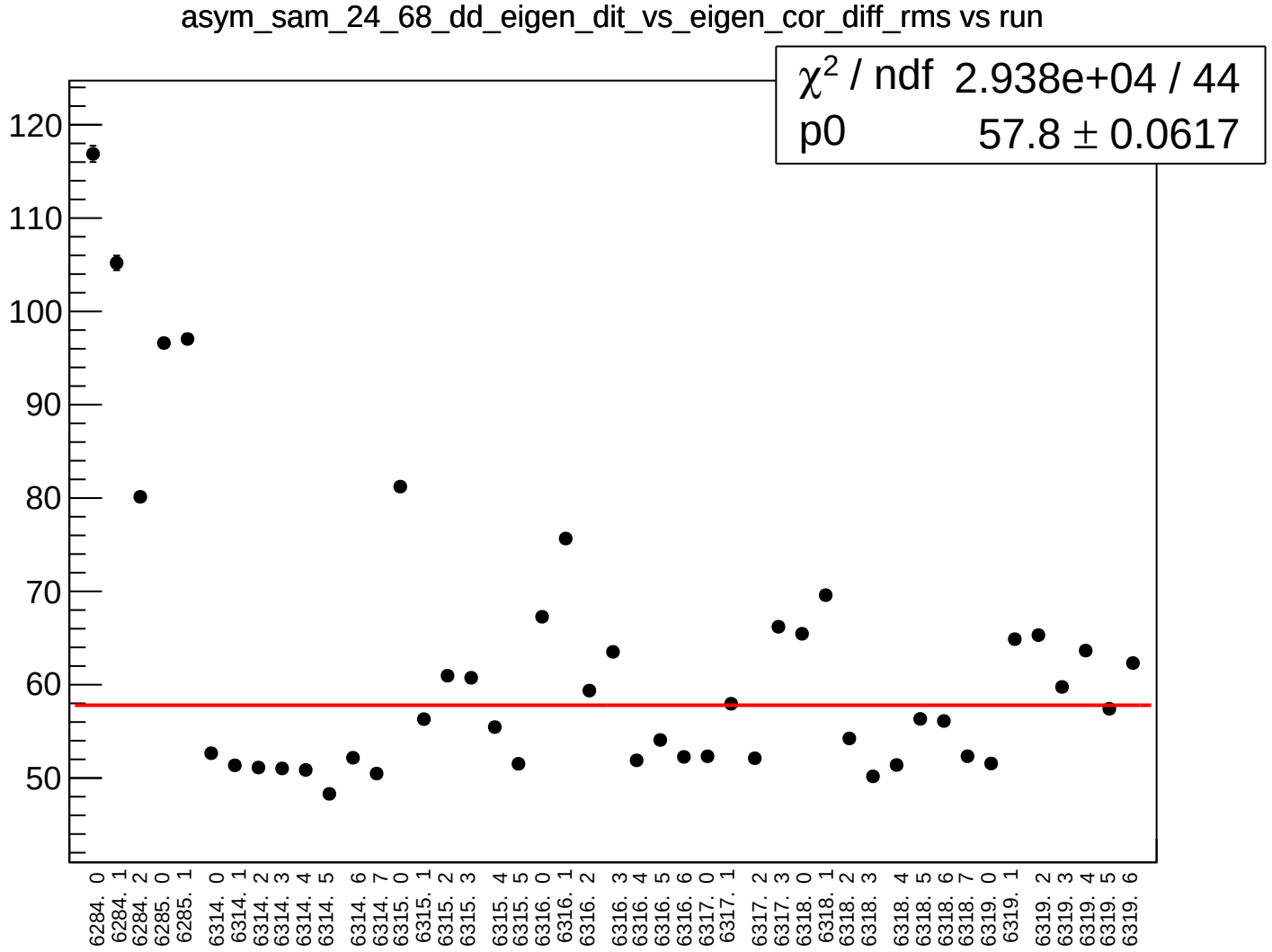

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.41 / 44
p0 7.038e−06 ± 4.46e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 292.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003837
Std Dev 0.9359
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

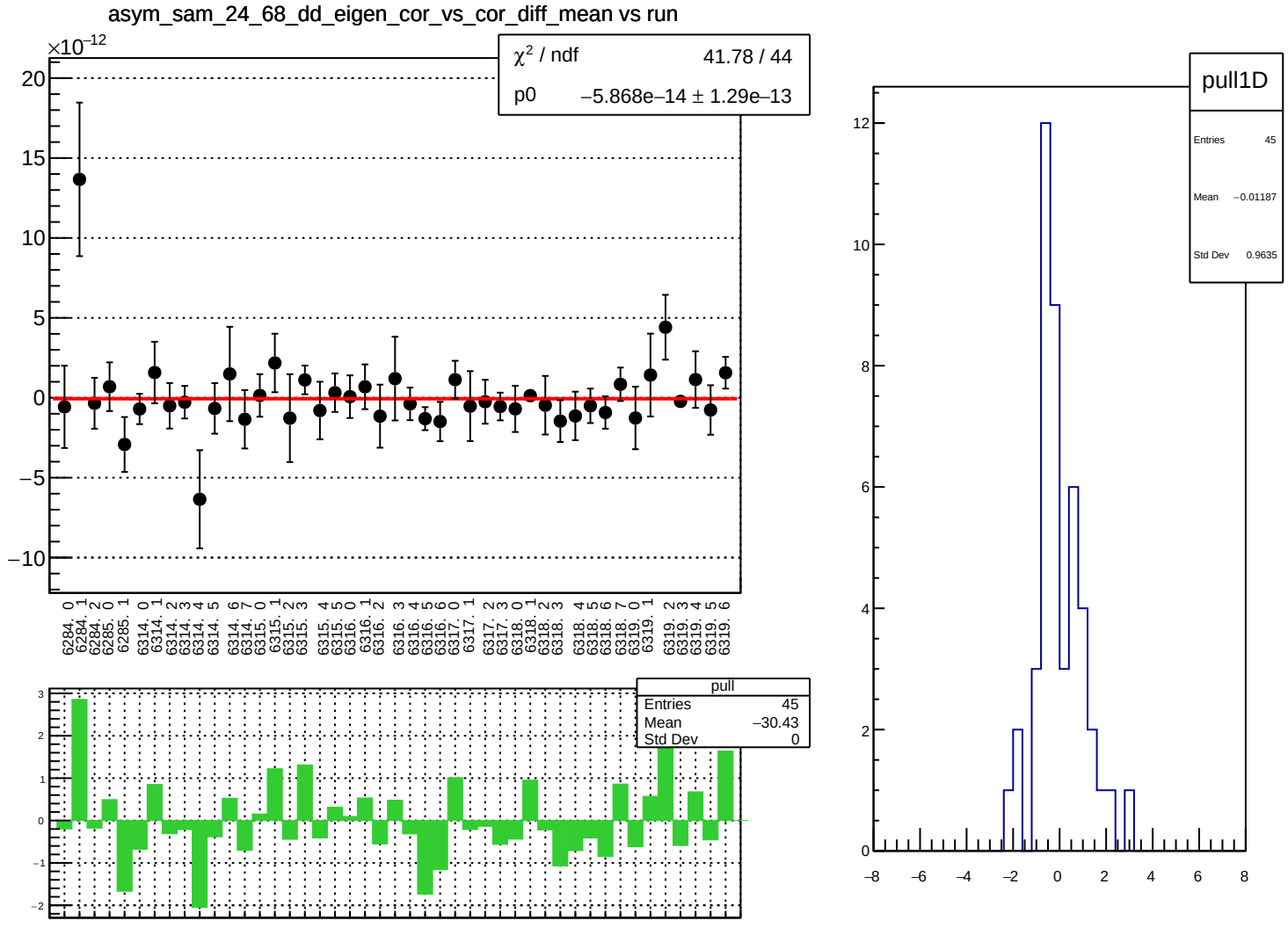

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1964 / 44
p0 0.003001 ± 3.154e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

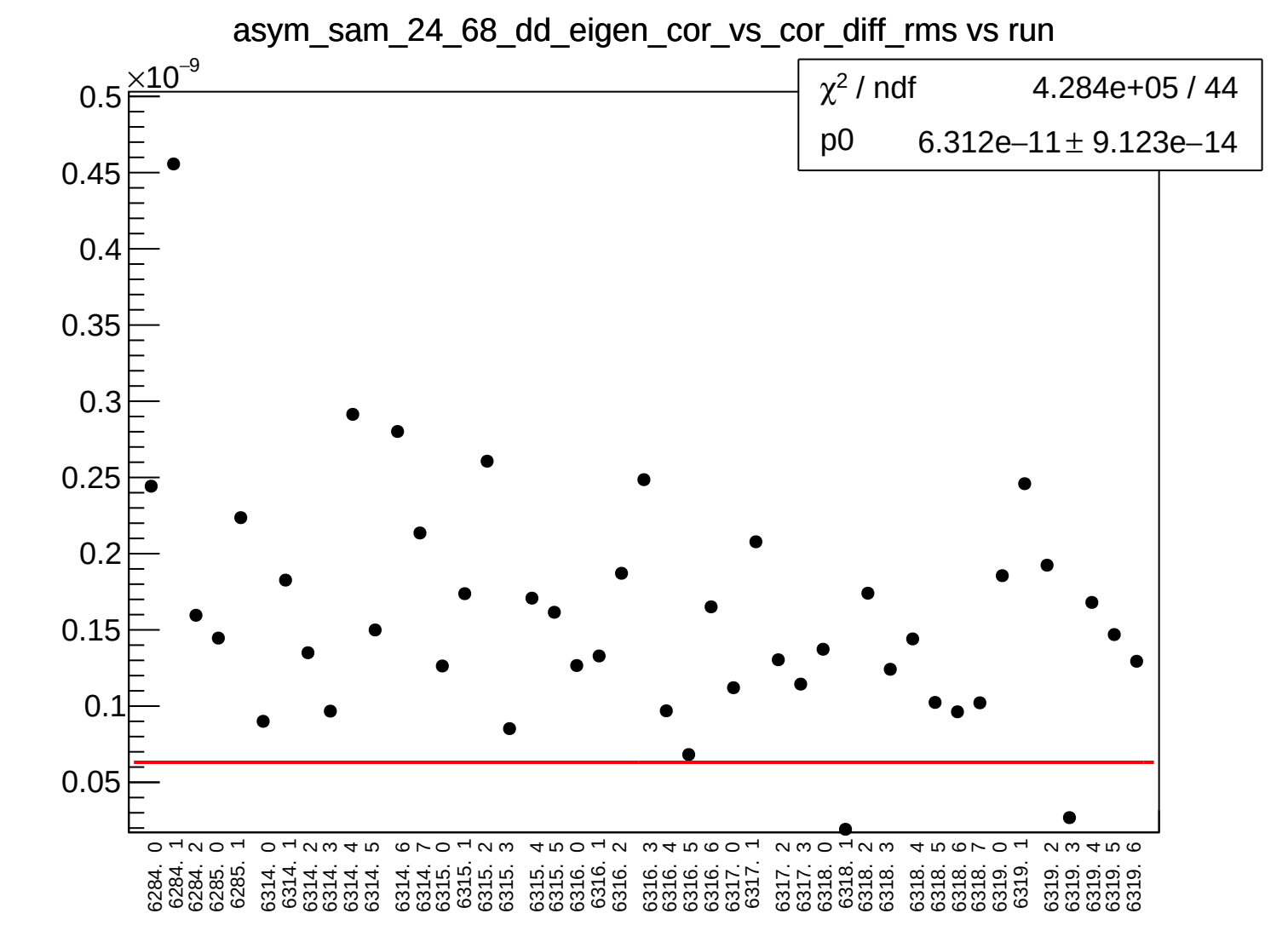

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.69 / 44
p0 0.0104 ± 0.08725
pull
Entries 45
Mean −248.5
Std Dev 0
pull1D
Entries 45
Mean −0.009216
Std Dev 1.019

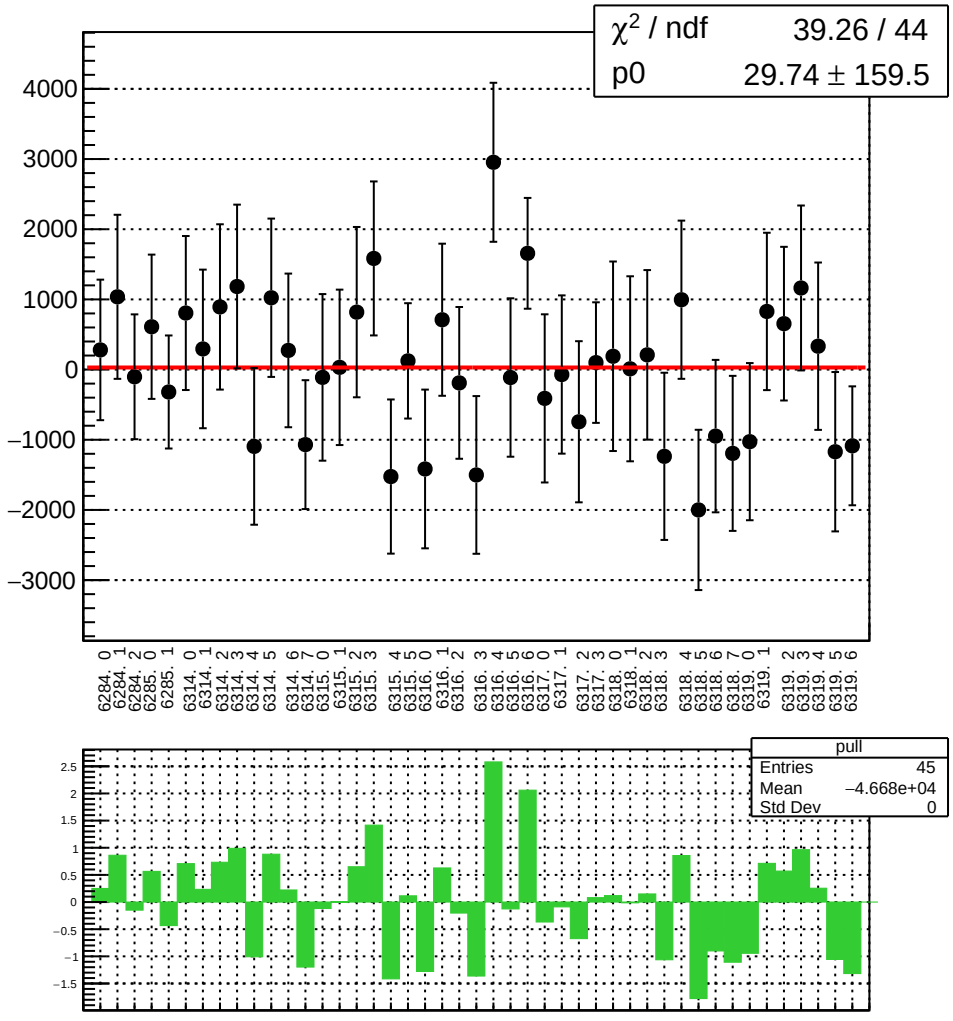

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.938e+04 / 44
p0 57.8 ± 0.0617
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

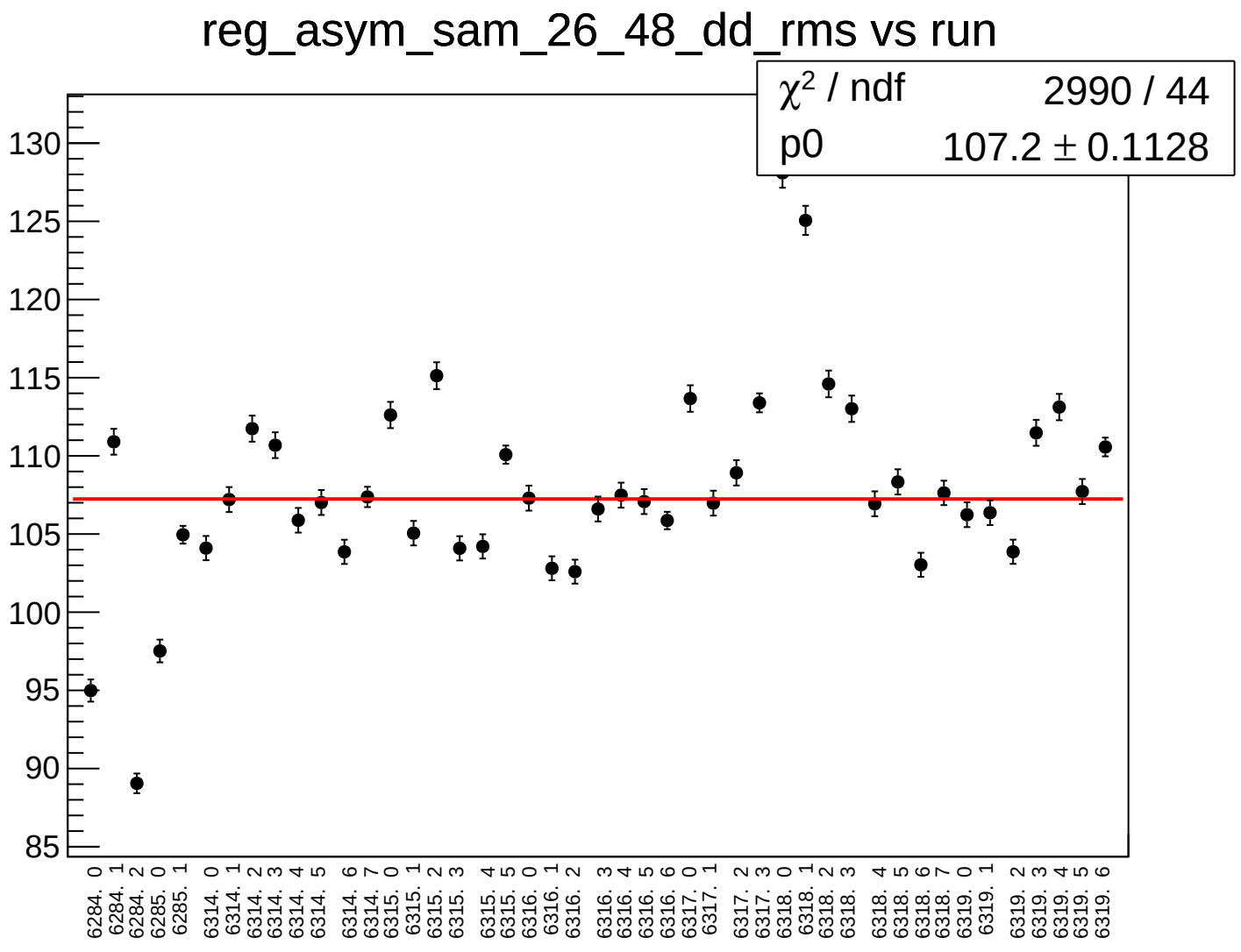

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.69 / 44
p0 0.0104 ± 0.08725
pull
Entries 45
Mean −248.5
Std Dev 0
pull1D
Entries 45
Mean −0.009216
Std Dev 1.019


asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.938e+04 / 44
p0 57.8 ± 0.0617
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.78 / 44
p0 −5.868e−14 ± 1.29e−13
20
15
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −30.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01187
Std Dev 0.9635
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.284e+05 / 44
p0 6.312e−11 ± 9.123e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 39.26 / 44
p0 29.74 ± 159.5
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.668e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 5.876e−05
Std Dev 0.934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2990 / 44
p0 107.2 ± 0.1128
130
125
120
115
110
105
100
95
90
85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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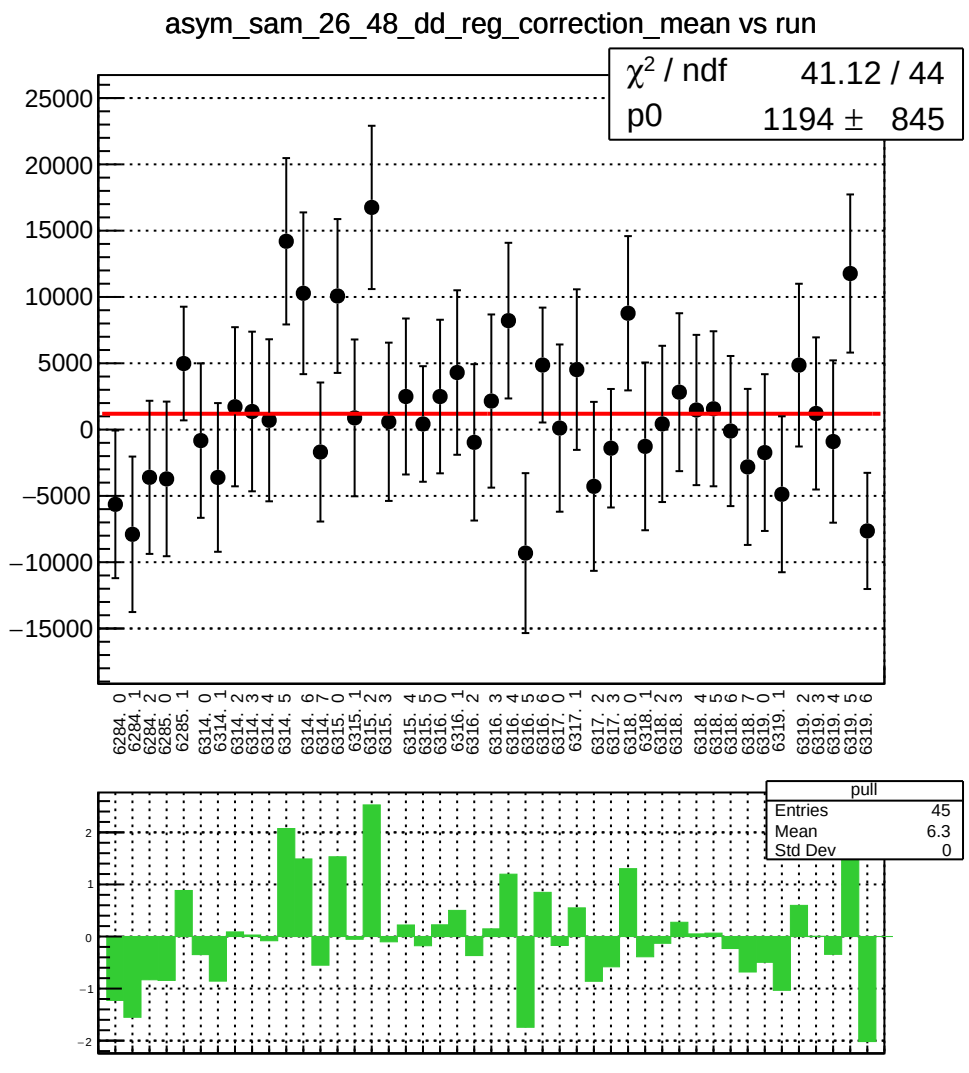
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 41.12 / 44
p0 1194 ± 845
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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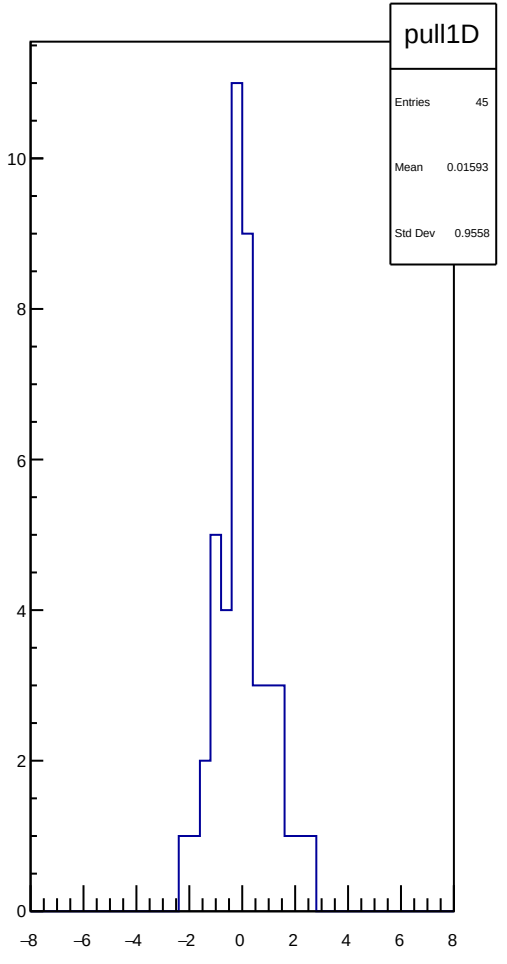
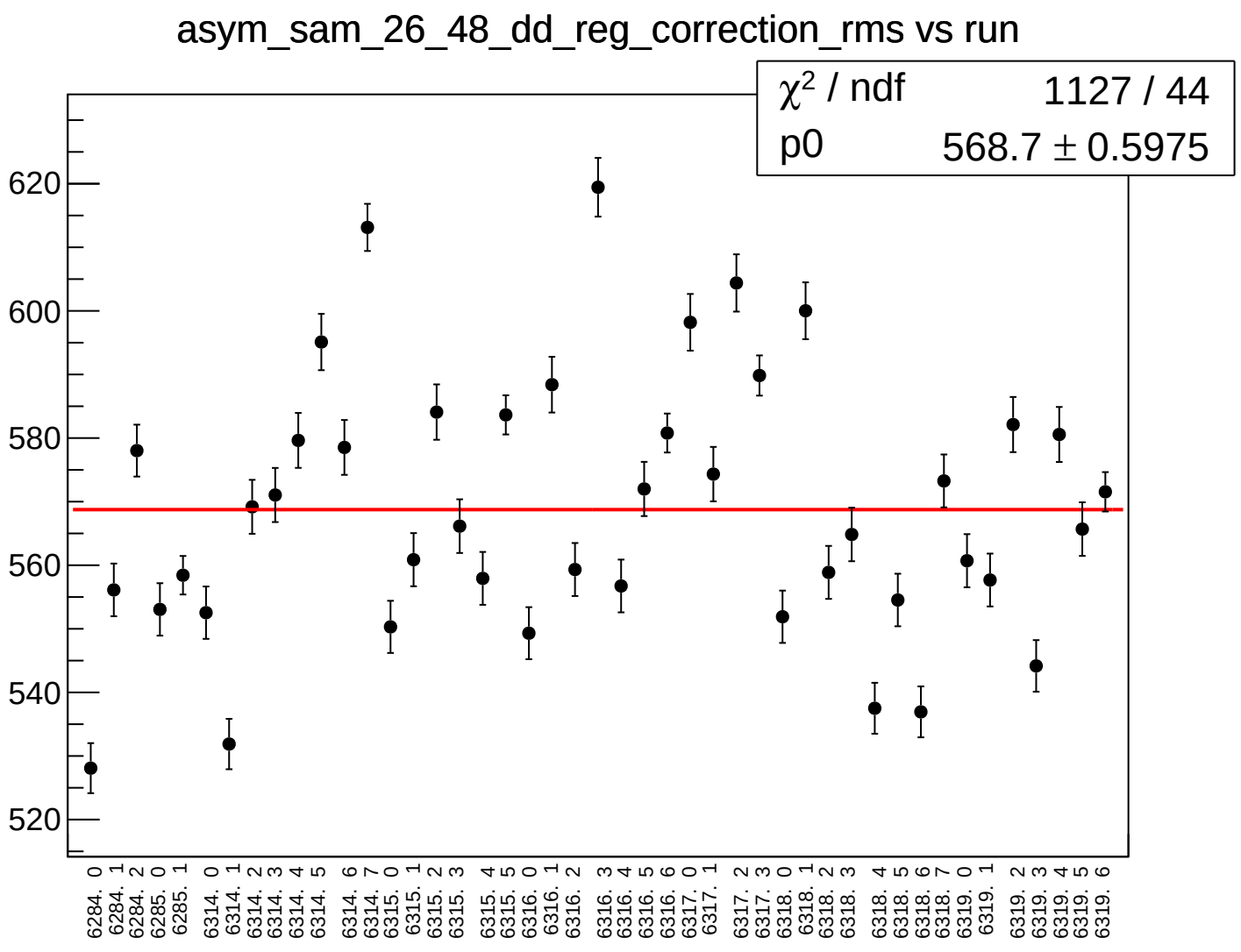
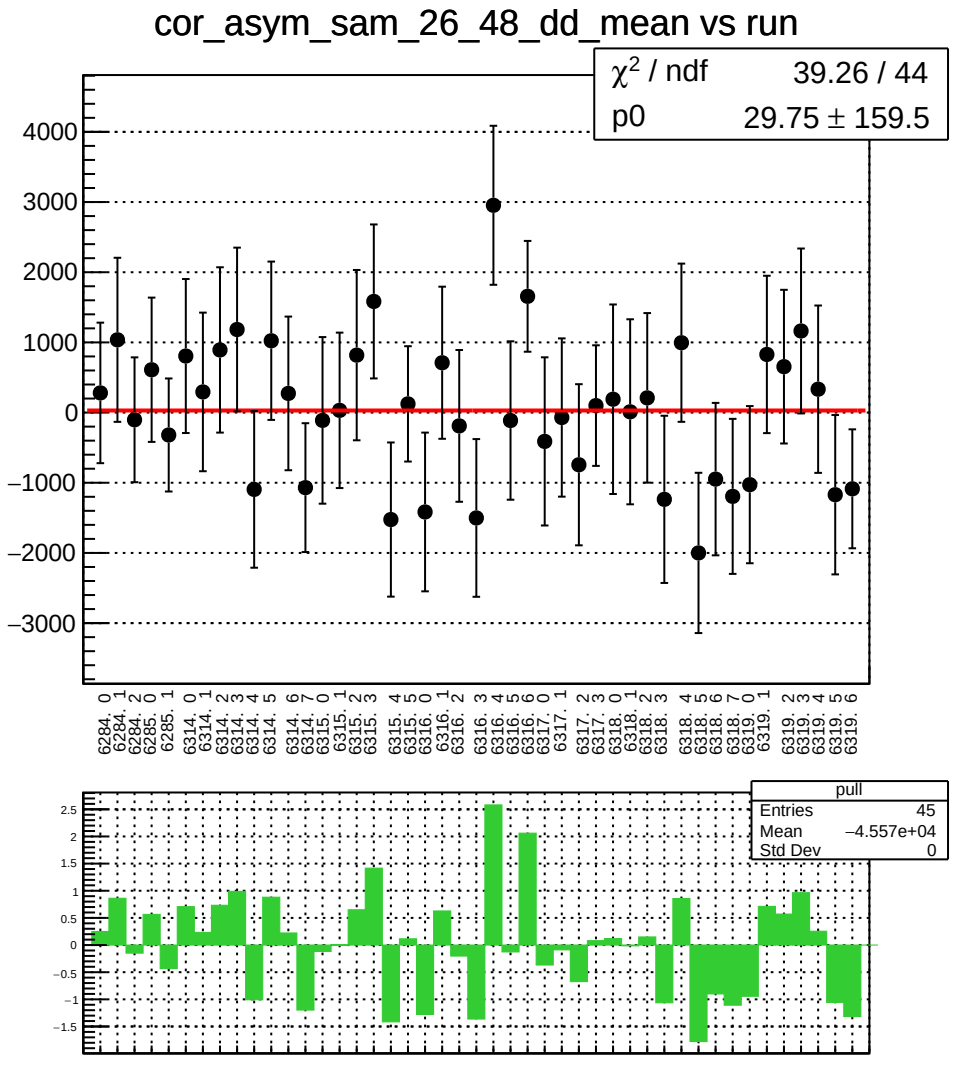
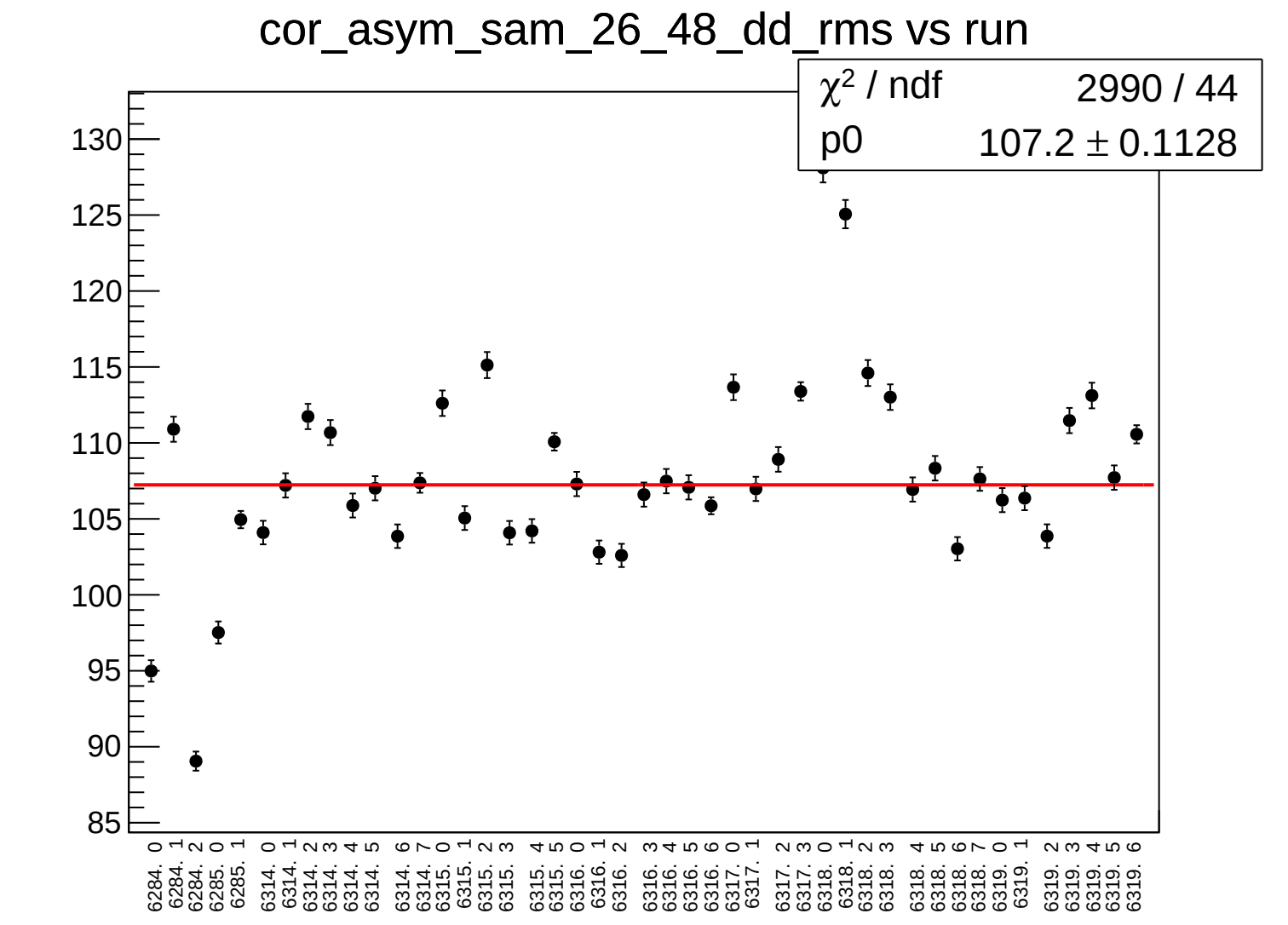
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01593
Std Dev 0.9558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1127 / 44
p0 568.7 ± 0.5975
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 39.26 / 44
p0 29.75 ± 159.5
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.557e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 6.019e−05
Std Dev 0.934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2990 / 44
p0 107.2 ± 0.1128
130
125
120
115
110
105
100
95
90
85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
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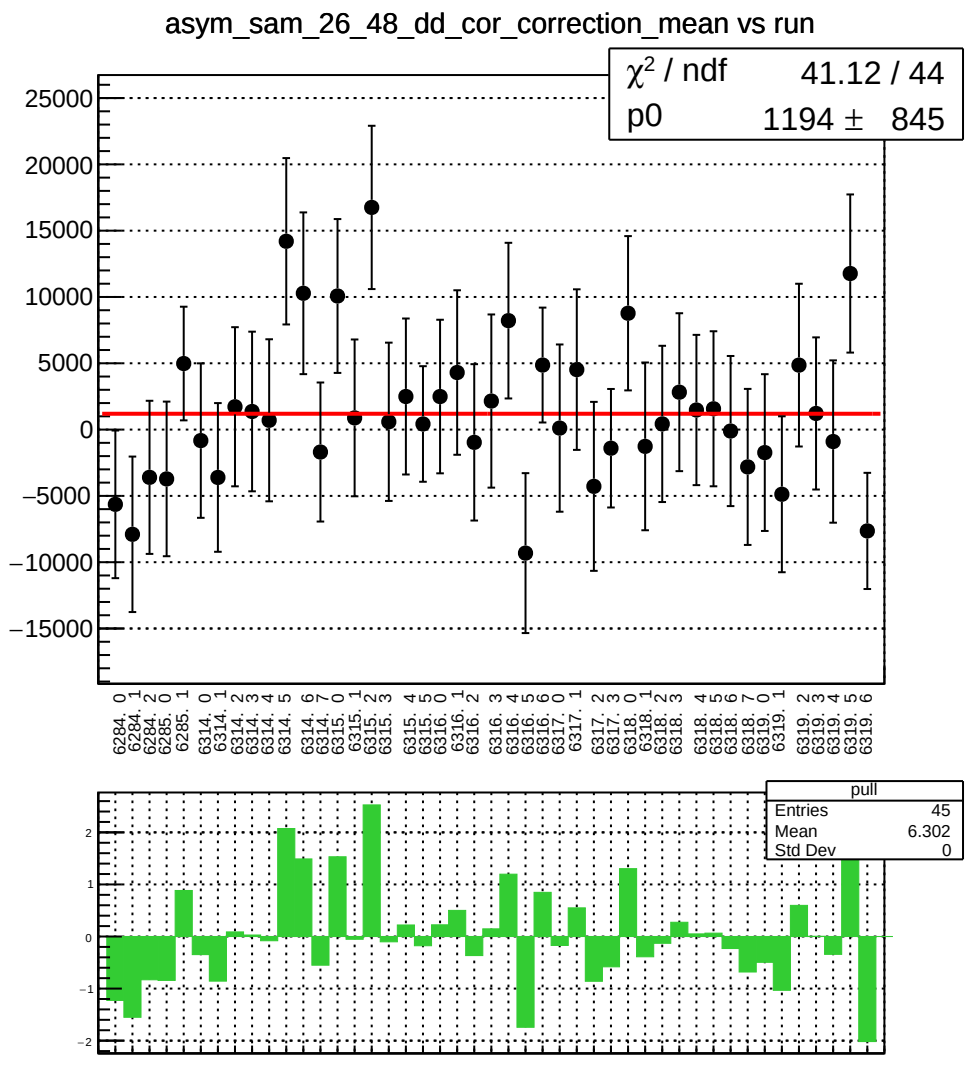
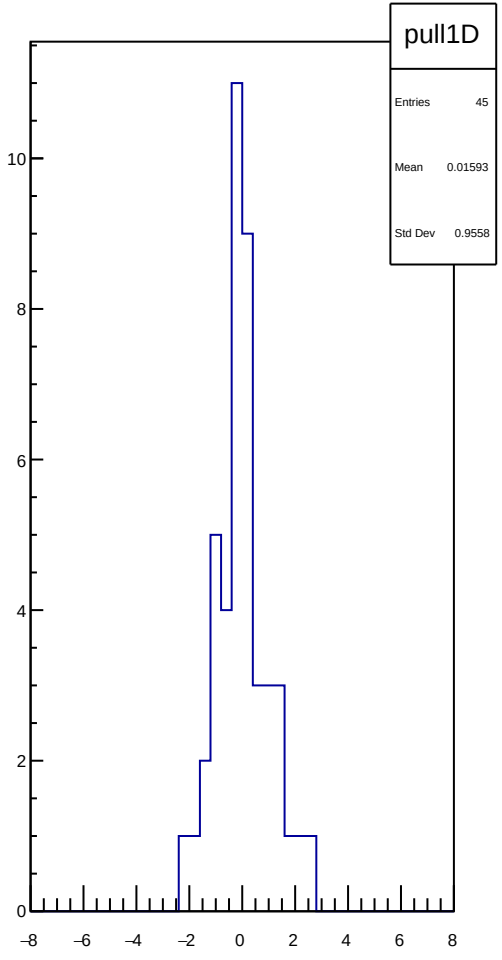
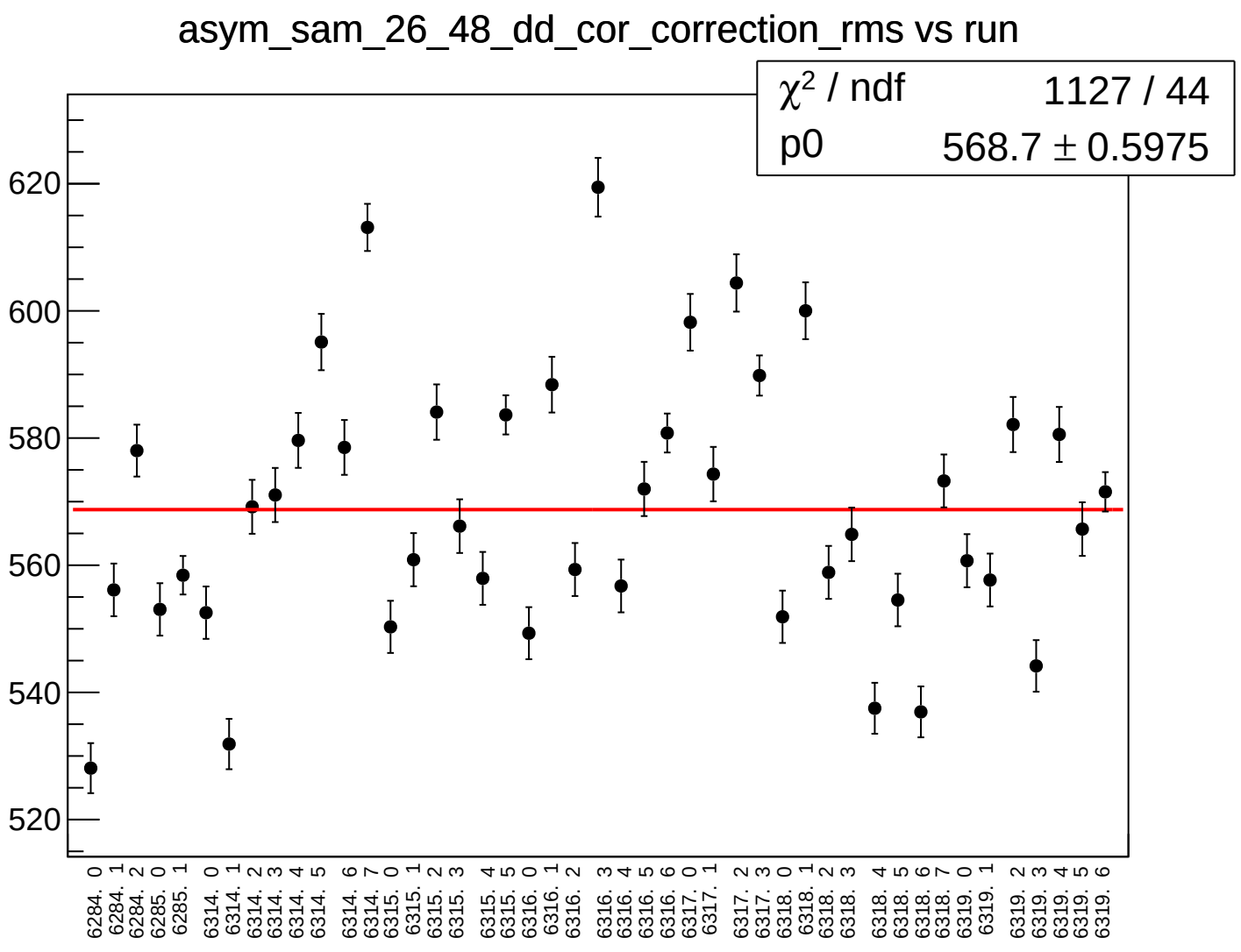
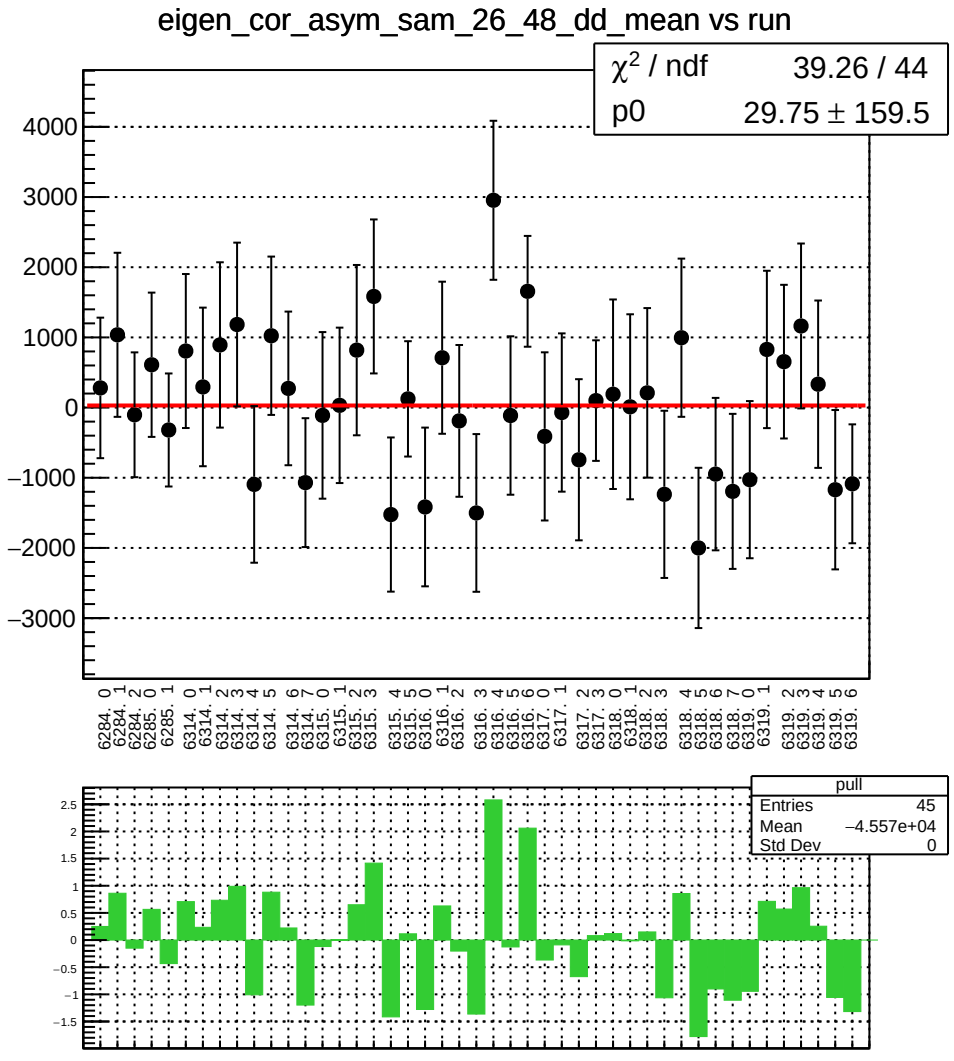
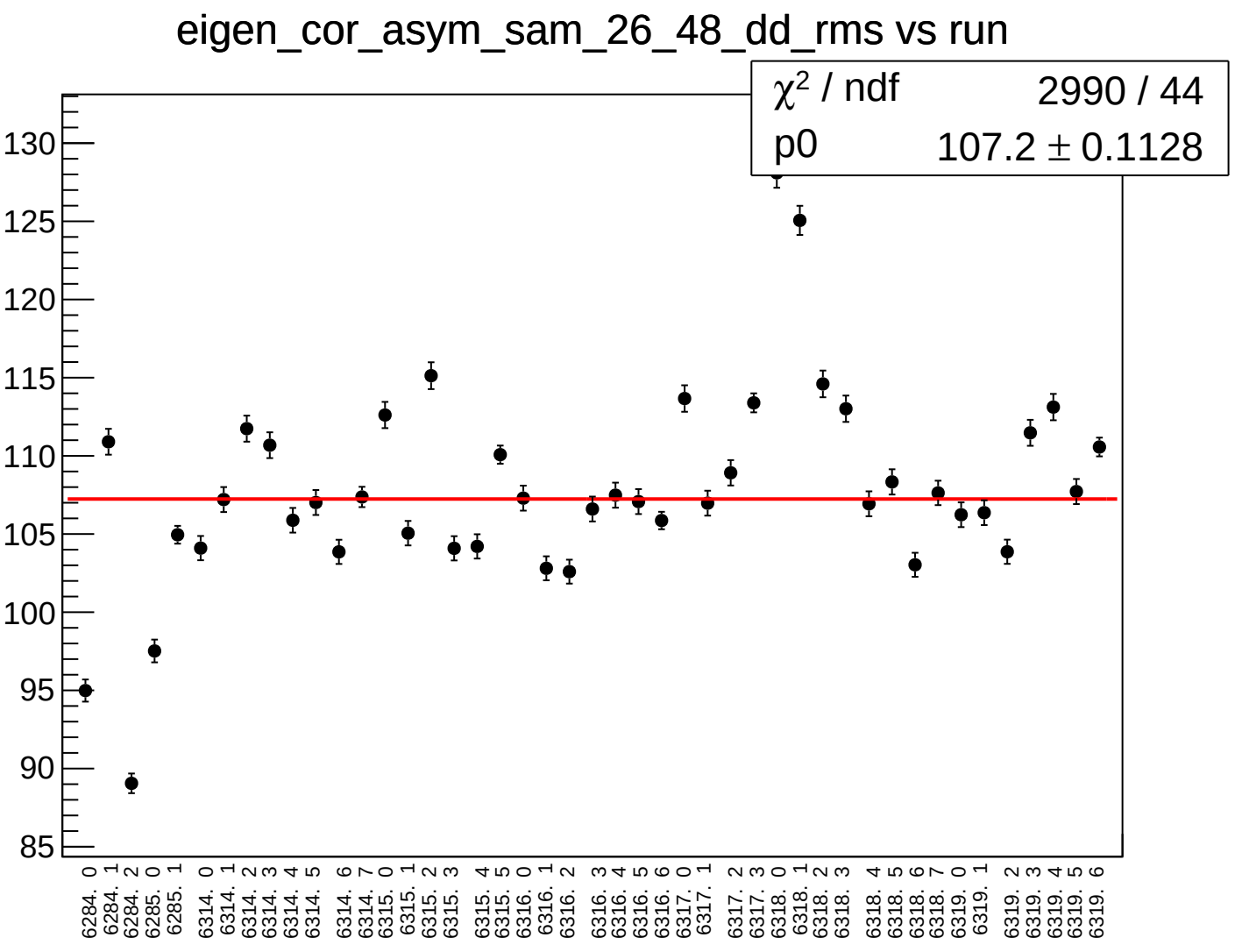
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

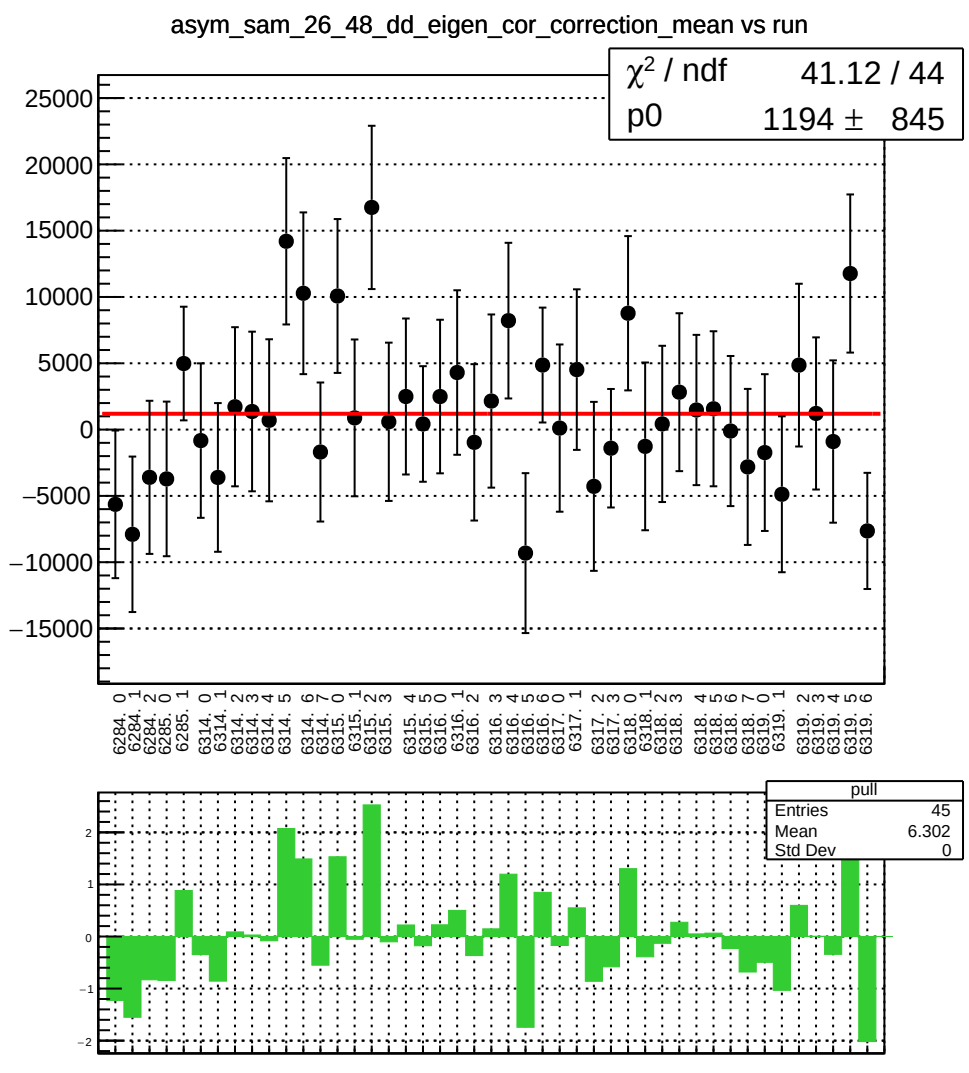

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 41.12 / 44
p0 1194 ± 845
pull
Entries 45
Mean 6.302
Std Dev 0

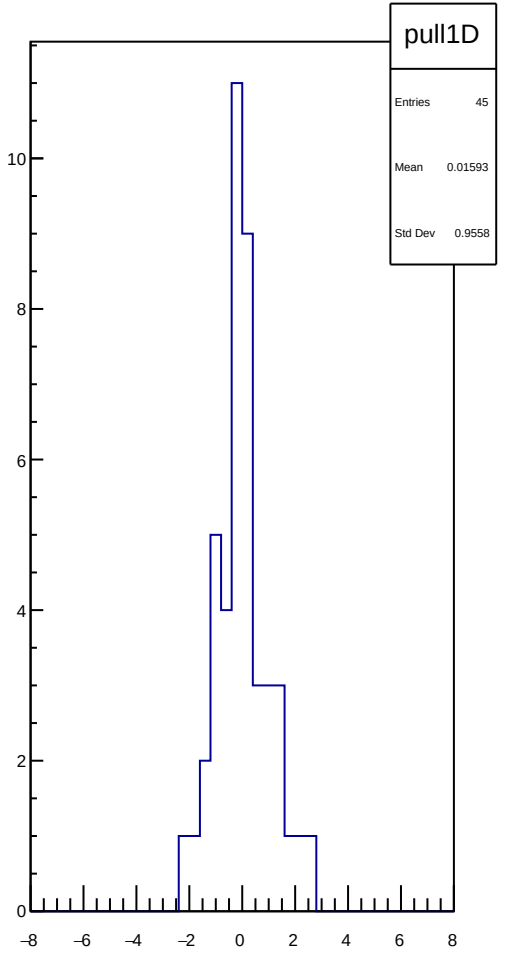

pull1D
Entries 45
Mean 0.01593
Std Dev 0.9558

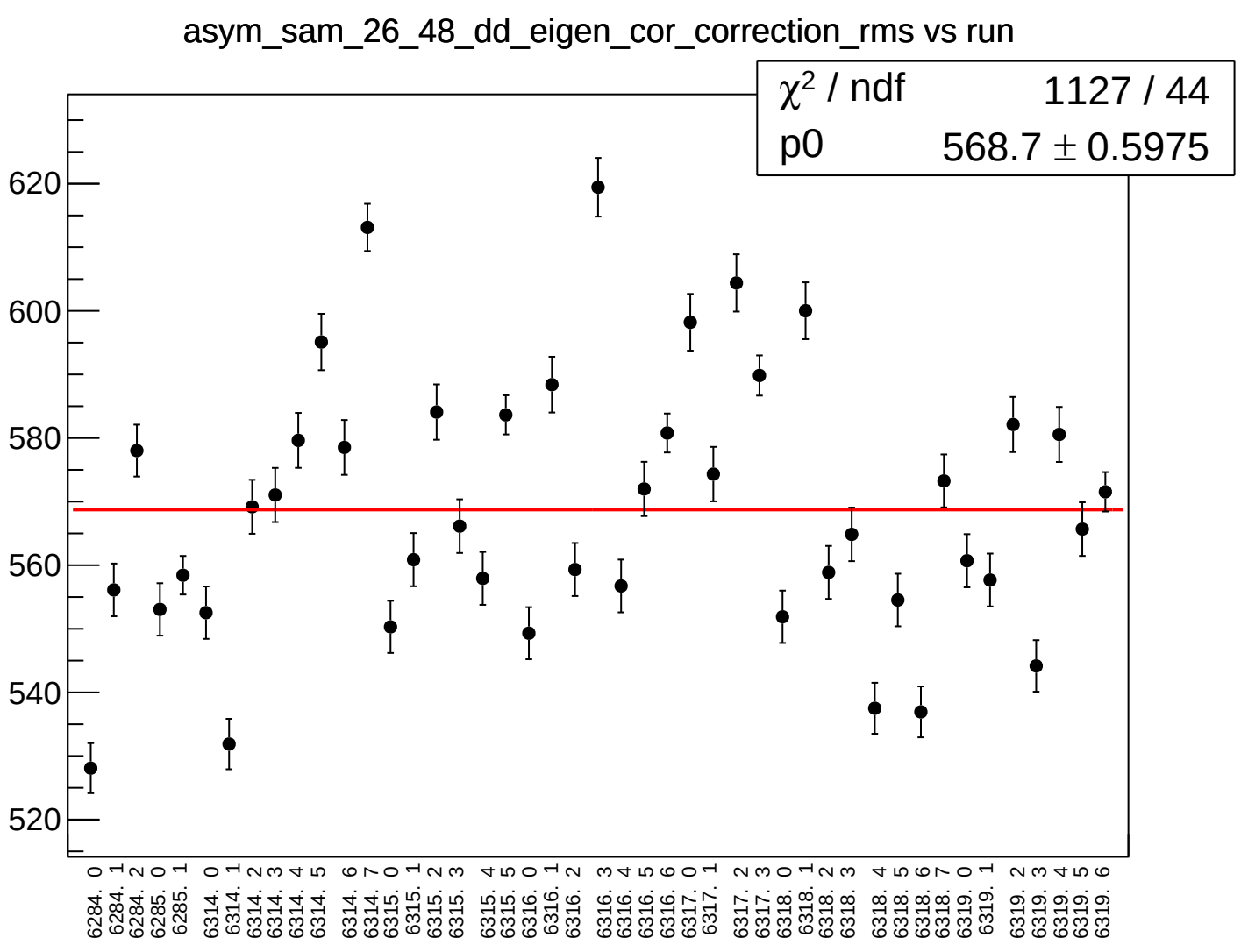

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1127 / 44
p0 568.7 ± 0.5975
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

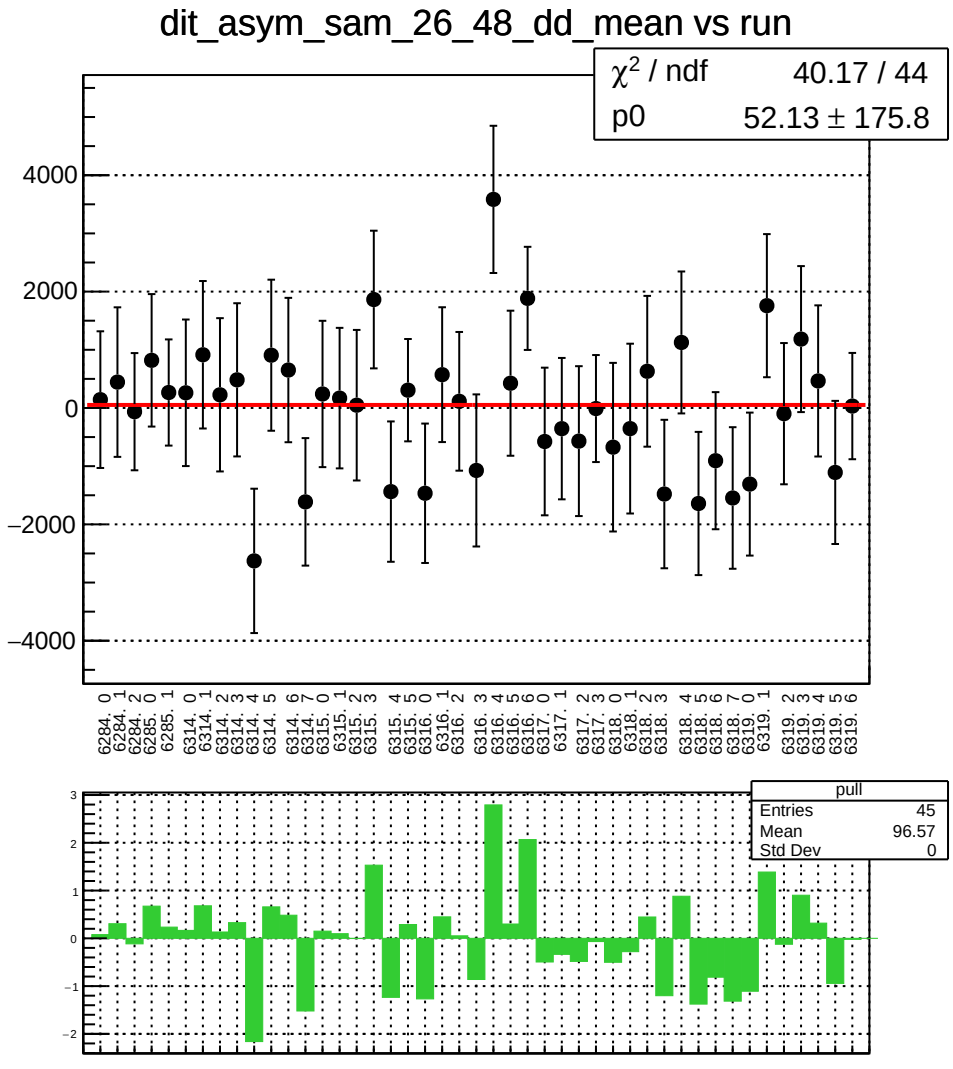

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 39.26 / 44
p0 29.75 ± 159.5
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.557e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 6.019e−05
Std Dev 0.934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

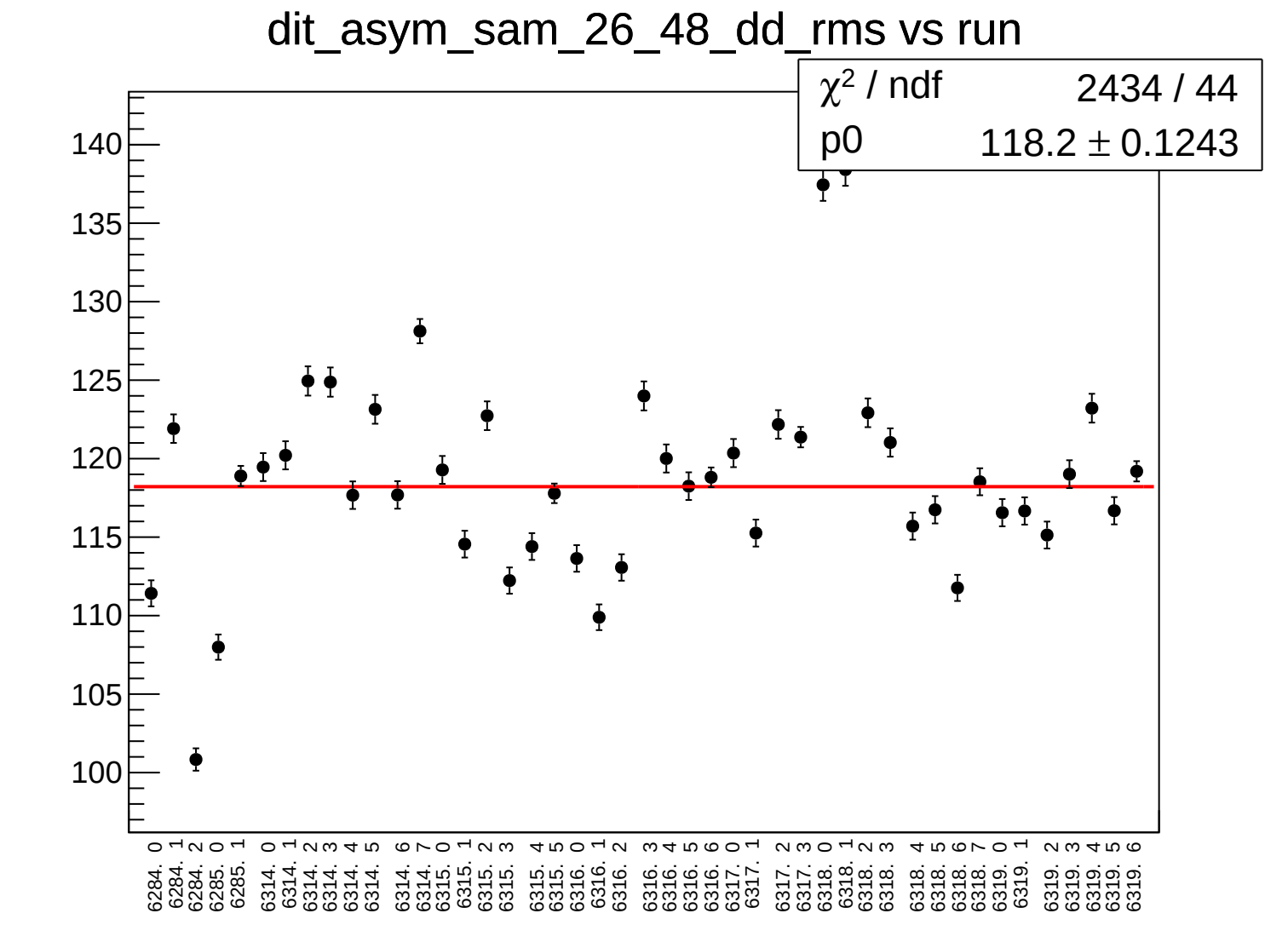

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2990 / 44
p0 107.2 ± 0.1128
130
125
120
115
110
105
100
95
90
85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

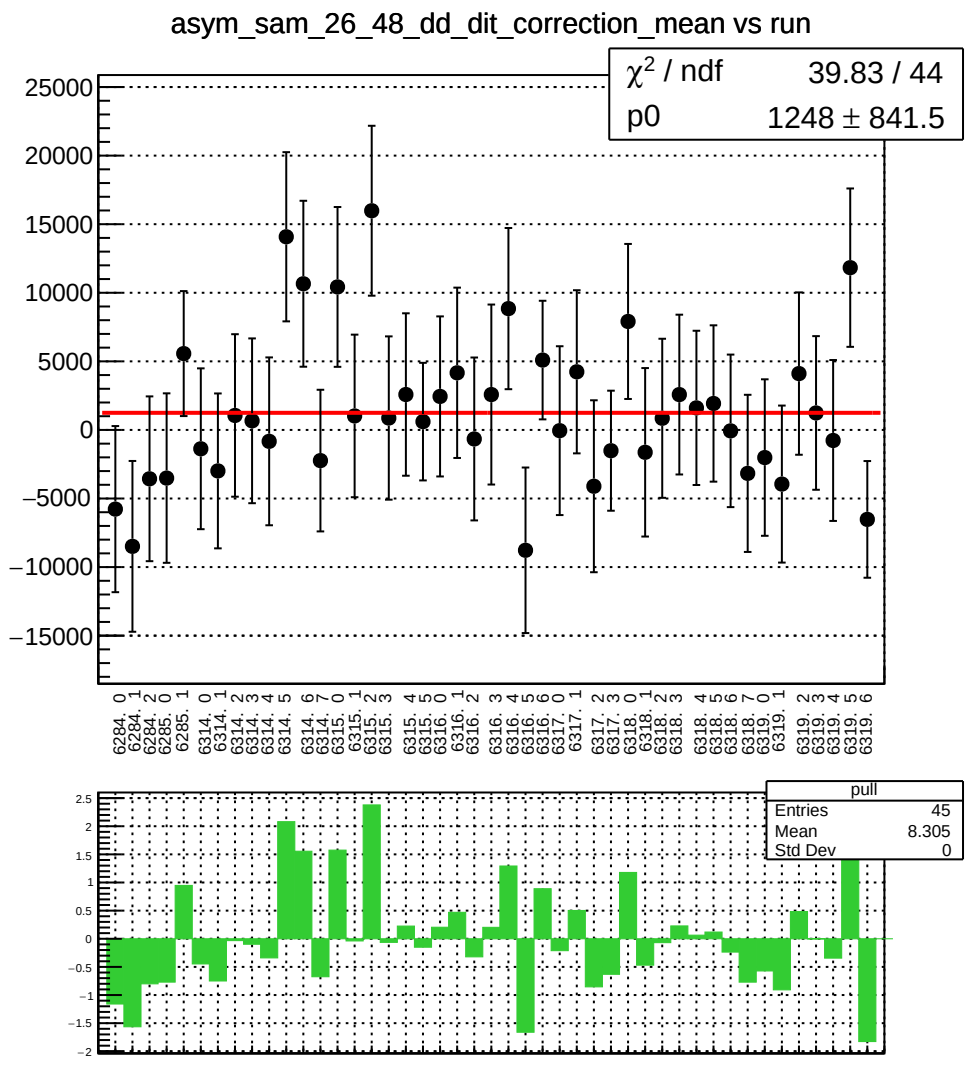

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.12 / 44
p0 1194 ± 845
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 6.302
Std Dev 0
2
1
0
−1
−2

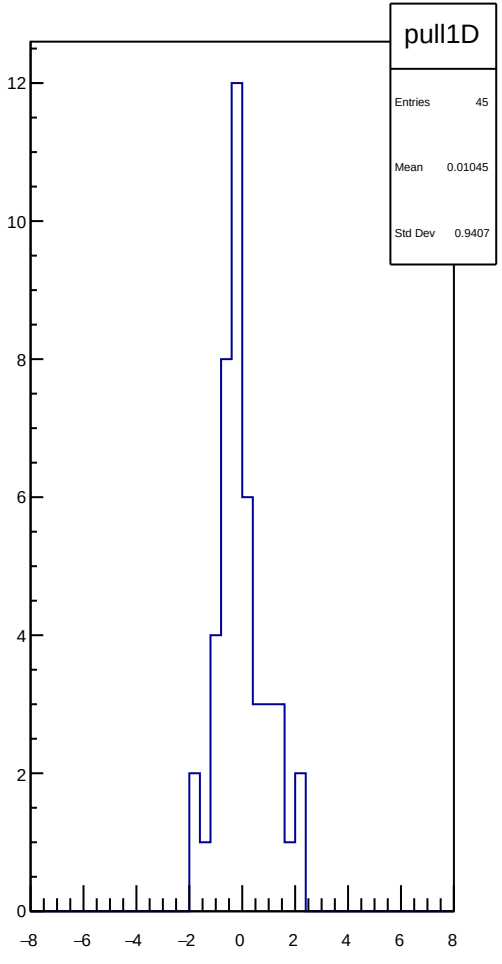

pull1D
Entries 45
Mean 0.01593
Std Dev 0.9558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

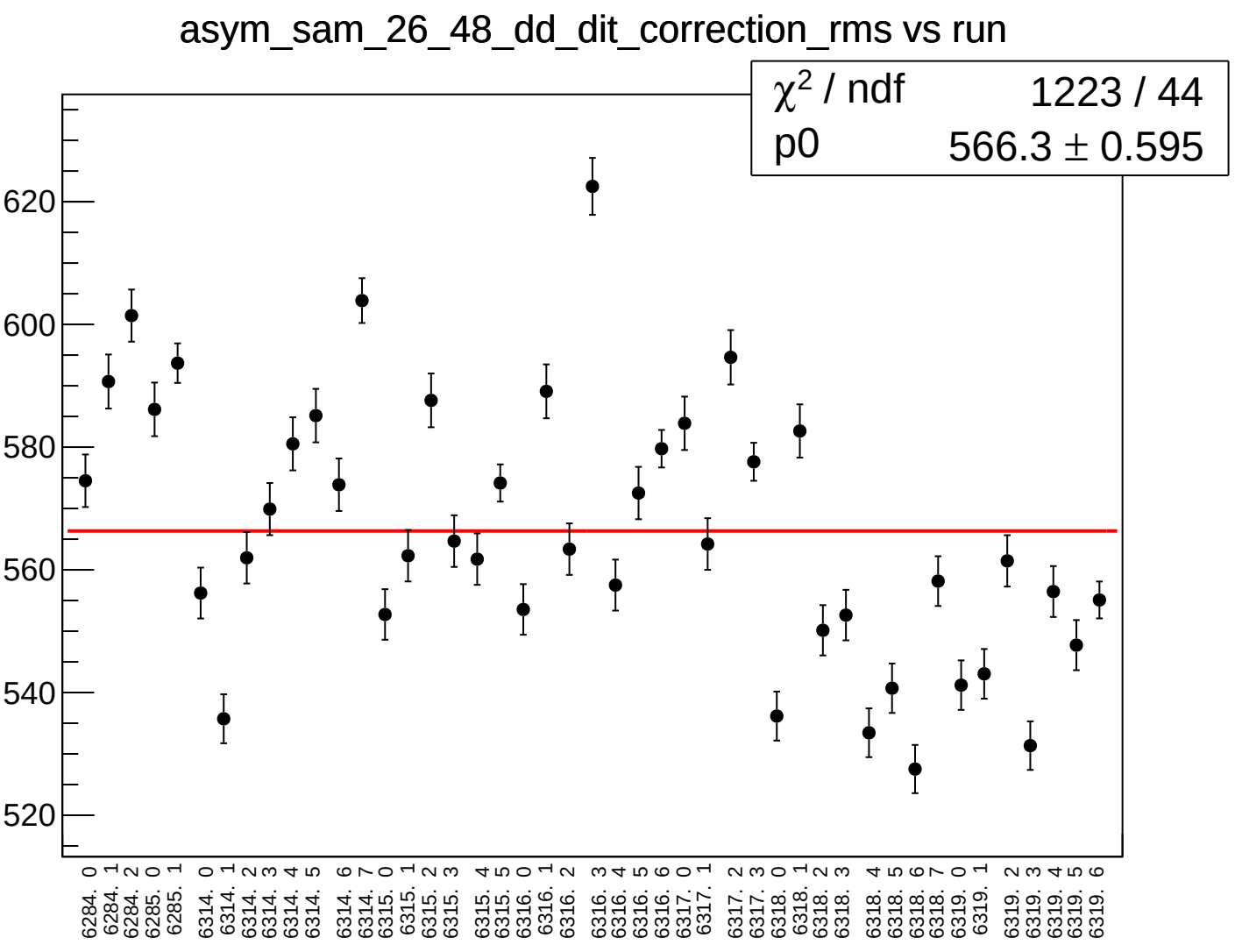

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1127 / 44
p0 568.7 ± 0.5975
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

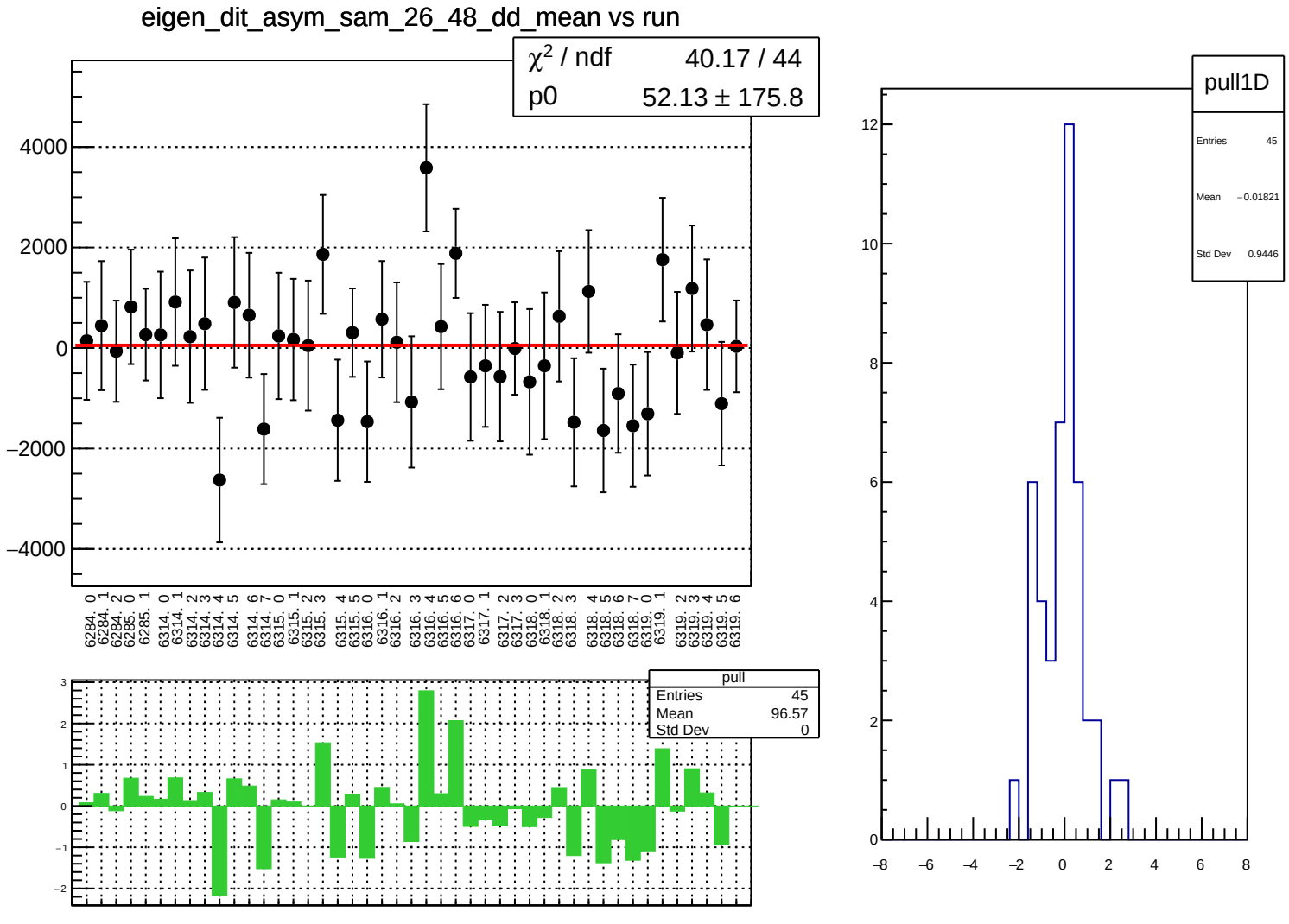

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 40.17 / 44
p0 52.13 ± 175.8
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 96.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01822
Std Dev 0.9446
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

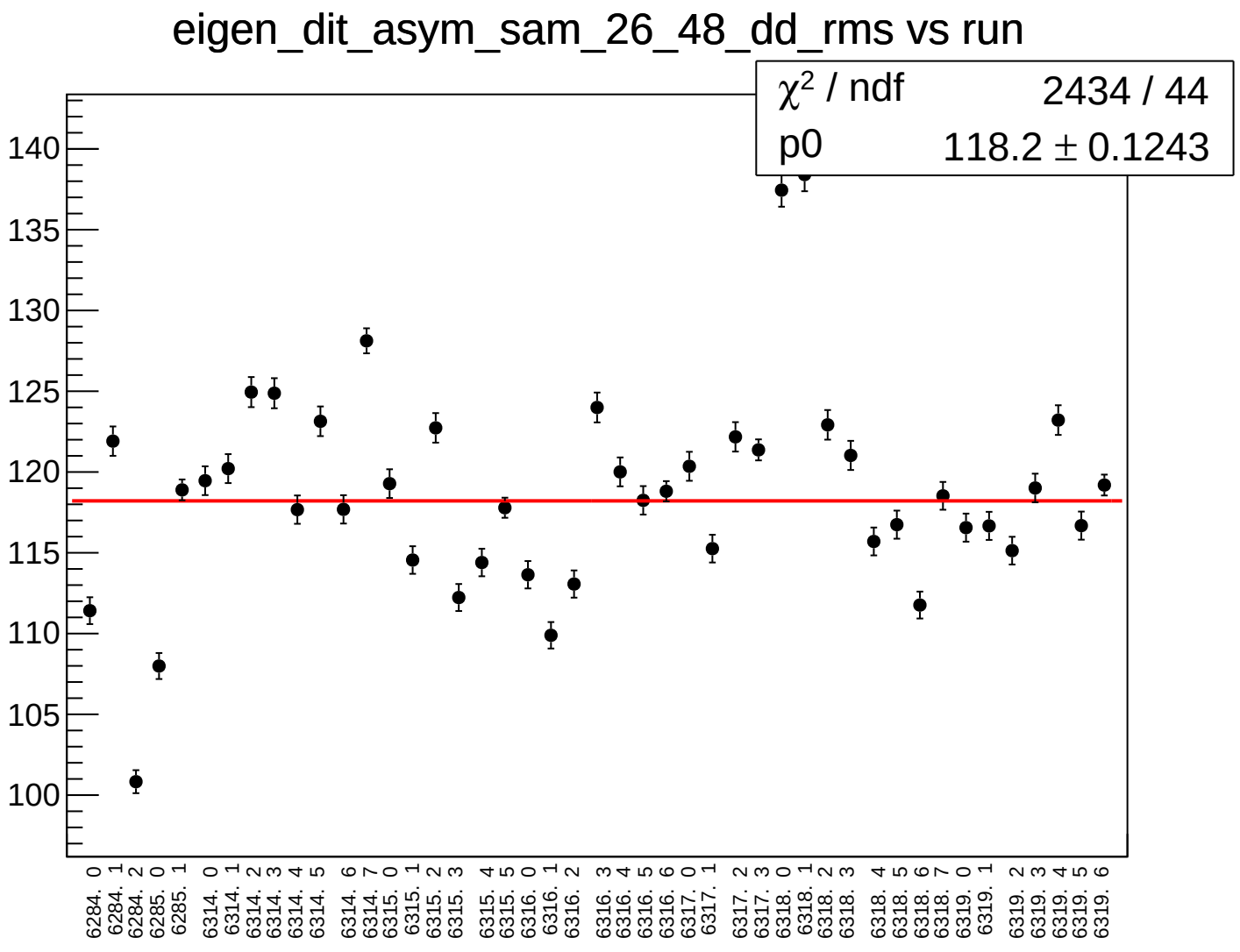

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2434 / 44
p0 118.2 ± 0.1243
140
135
130
125
120
115
110
105
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

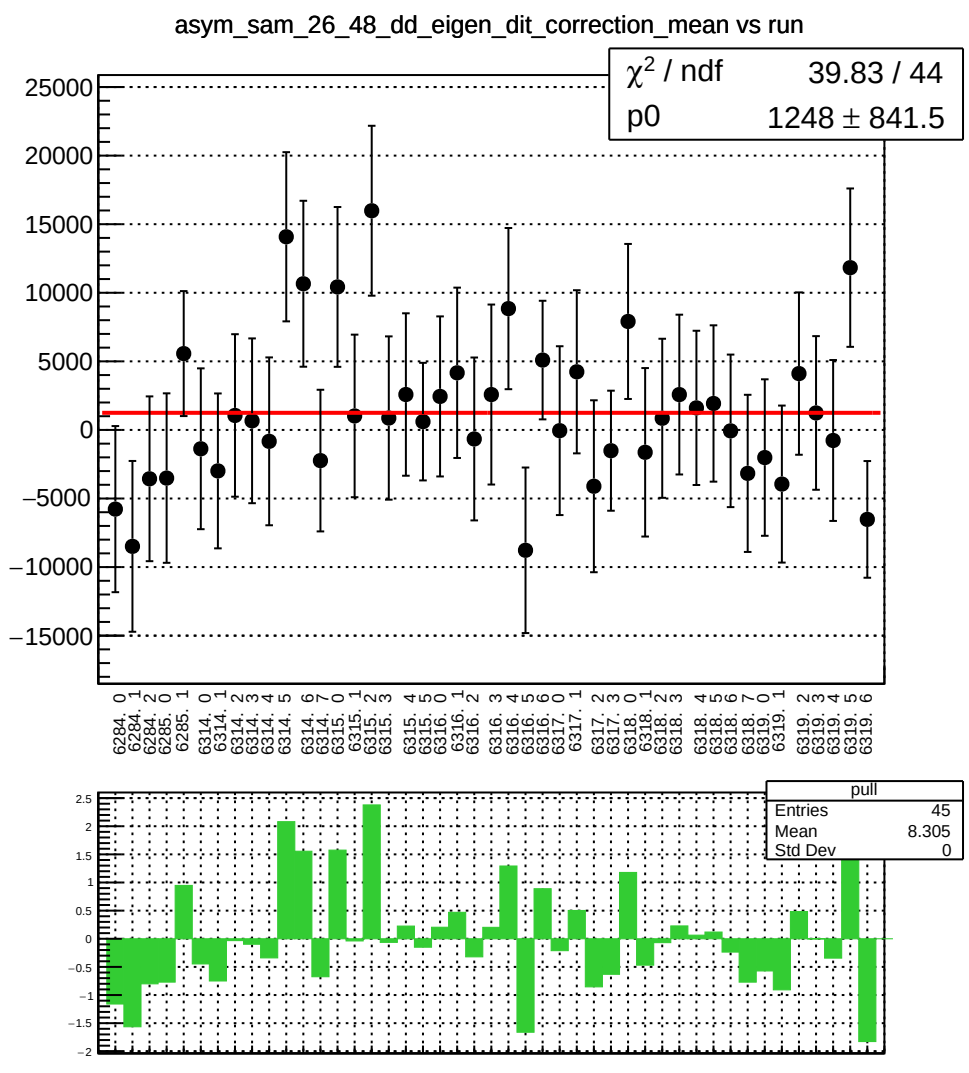

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 39.83 / 44
p0 1248 ± 841.5
pull
Entries 45
Mean 8.305
Std Dev 0

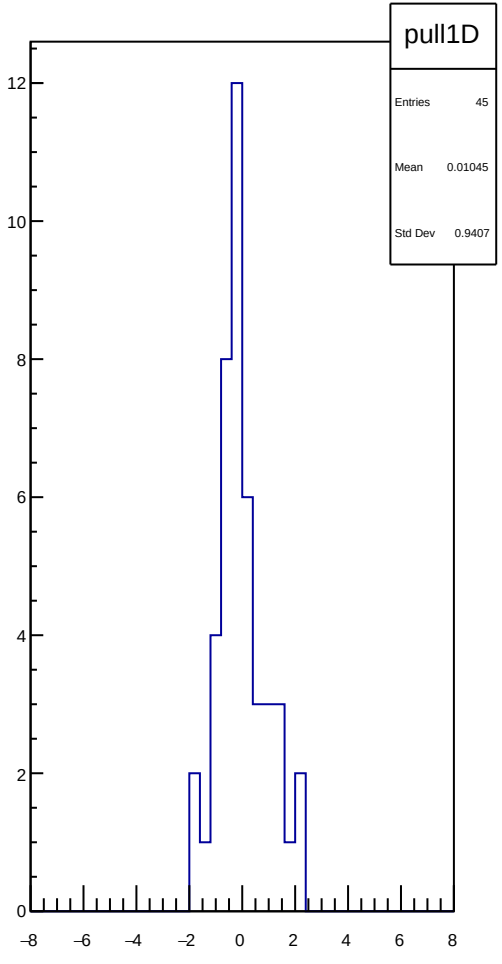

pull1D
Entries 45
Mean 0.01045
Std Dev 0.9407

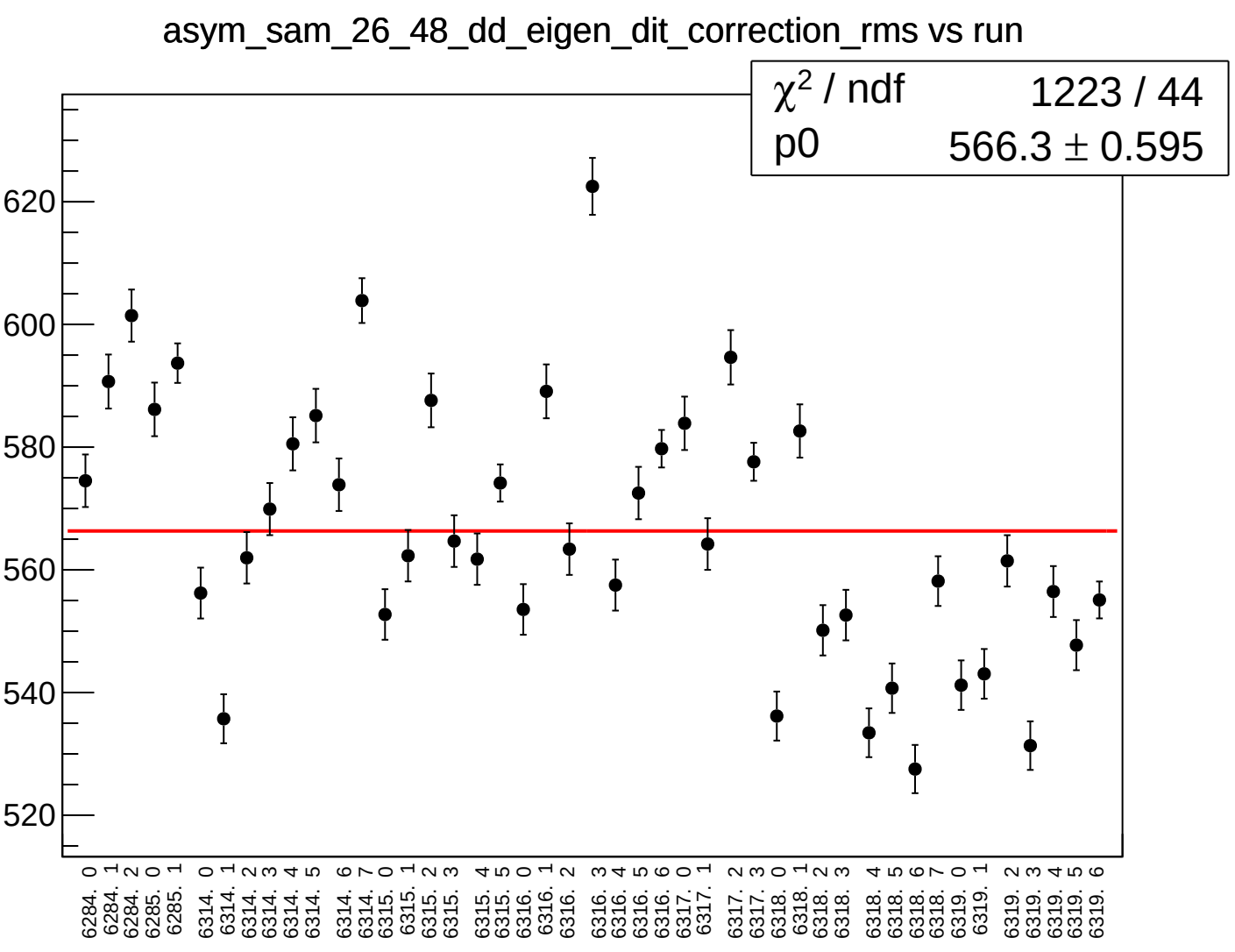

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1223 / 44
p0 566.3 ± 0.595
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 40.17 / 44
p0 52.13 ± 175.8
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 96.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01821
Std Dev 0.9446
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2434 / 44
p0 118.2 ± 0.1243
140
135
130
125
120
115
110
105
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.83 / 44
p0 1248 ± 841.5
pull
Entries 45
Mean 8.305
Std Dev 0


pull1D
Entries 45
Mean 0.01045
Std Dev 0.9407


asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1223 / 44
p0 566.3 ± 0.595
620
600
580
560
540
520
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 4
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6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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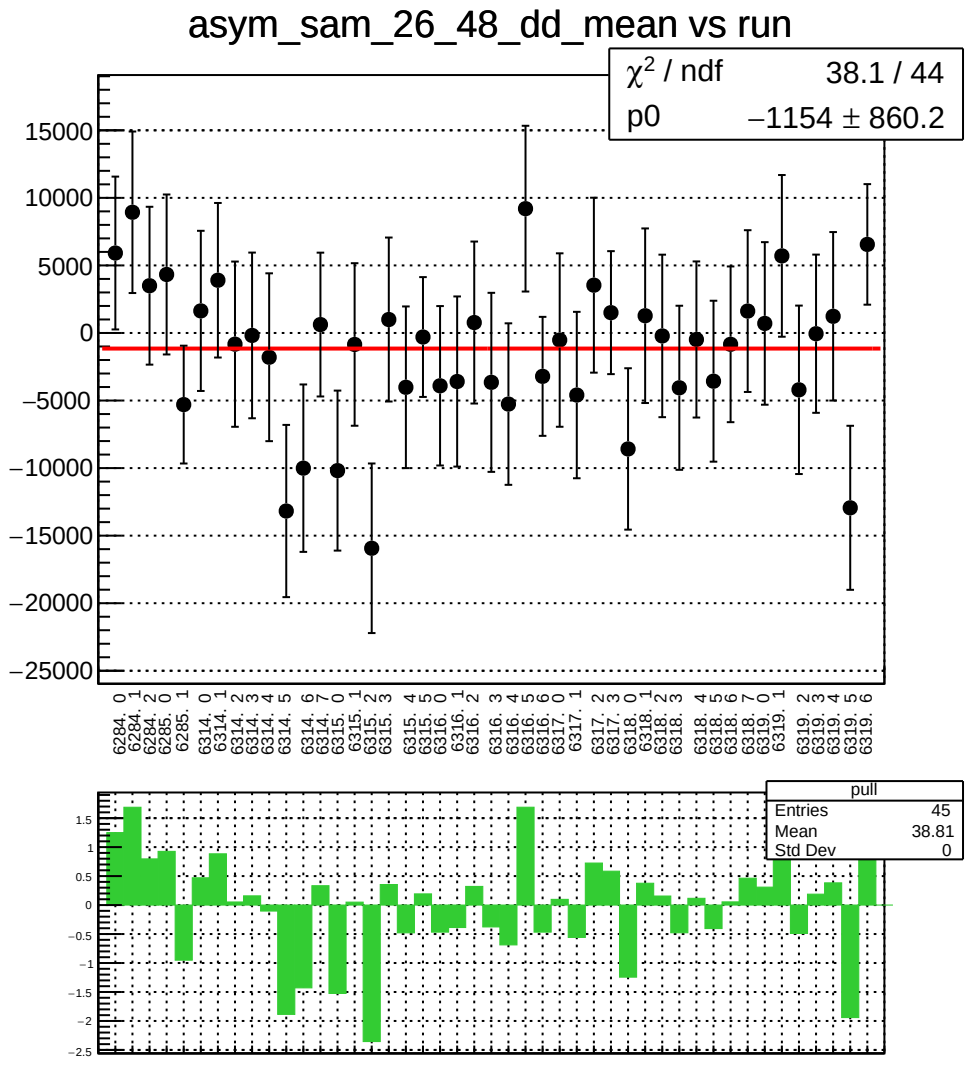
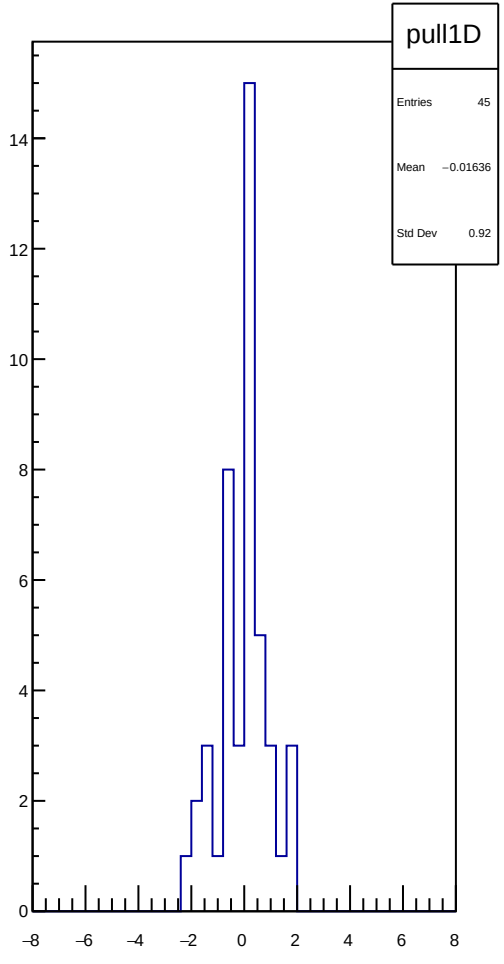
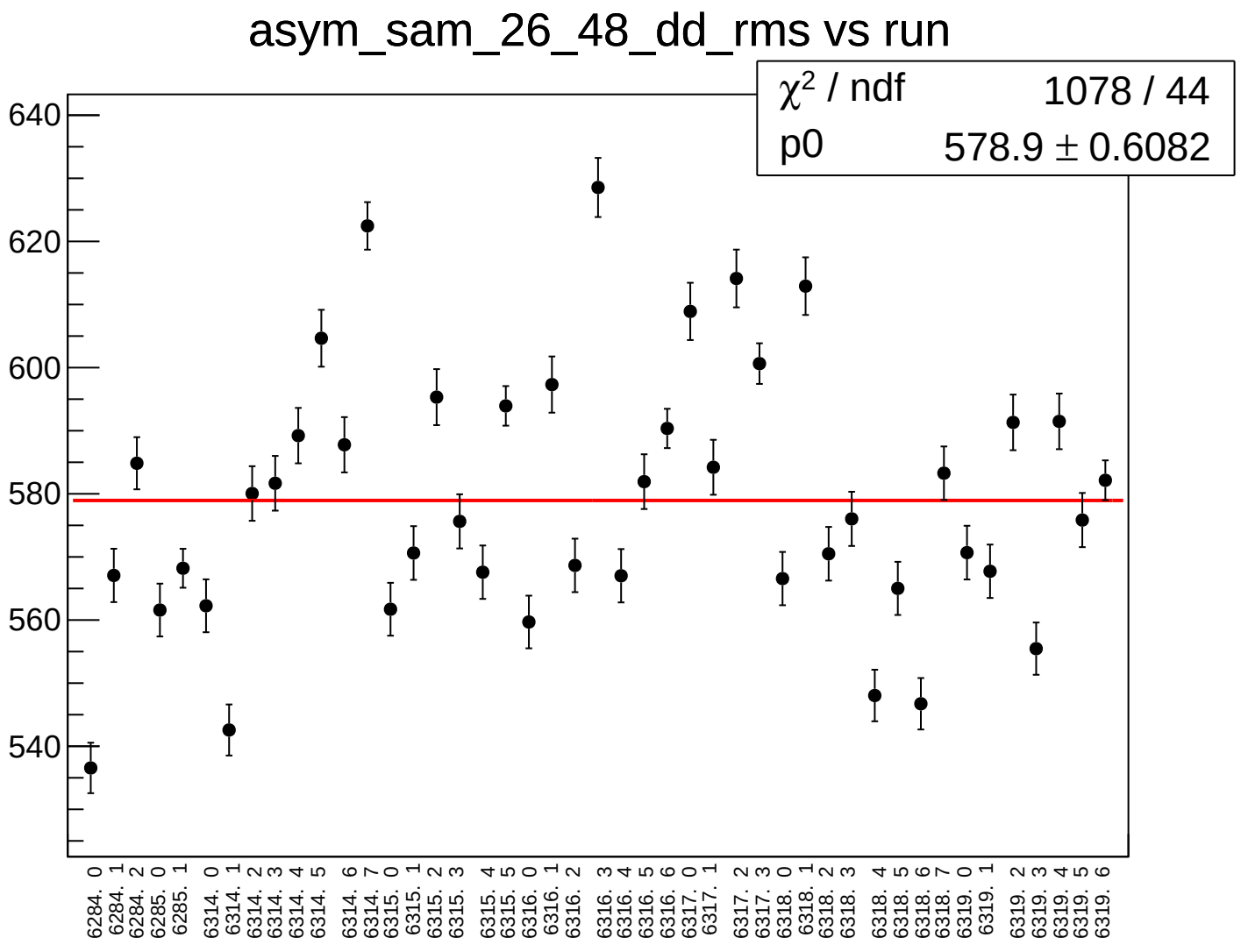
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_26_48_dd_mean vs run
χ^2 / ndf 38.1 / 44
p0 −1154 ± 860.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 38.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01636
Std Dev 0.92
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_rms vs run
χ² / ndf 1078 / 44
p0 578.9 ± 0.6082
640
620
600
580
560
540
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
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6318. 0
6318. 1
6318. 2
6318. 3
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6318. 6
6318. 7
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6319. 1
6319. 2
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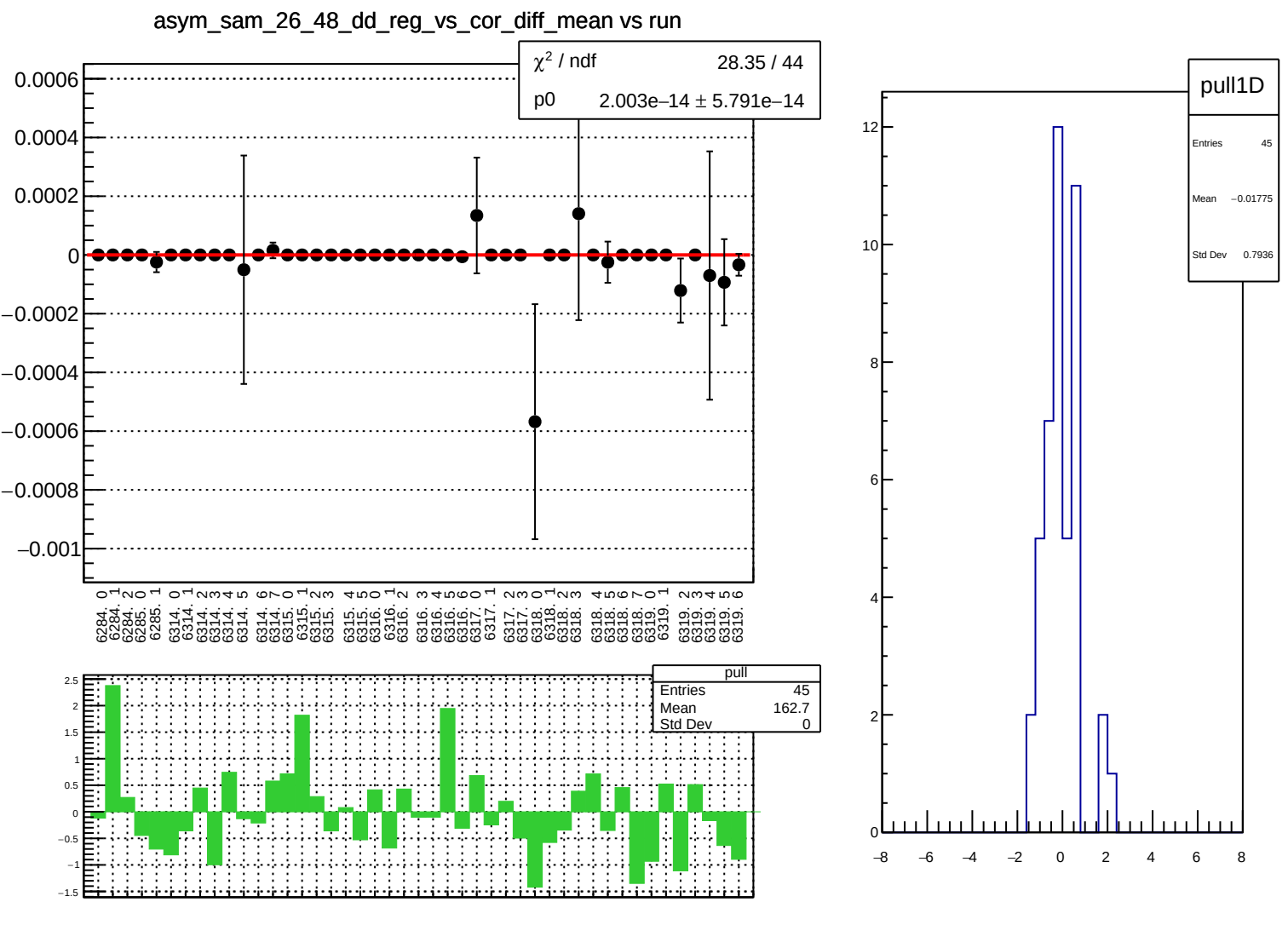
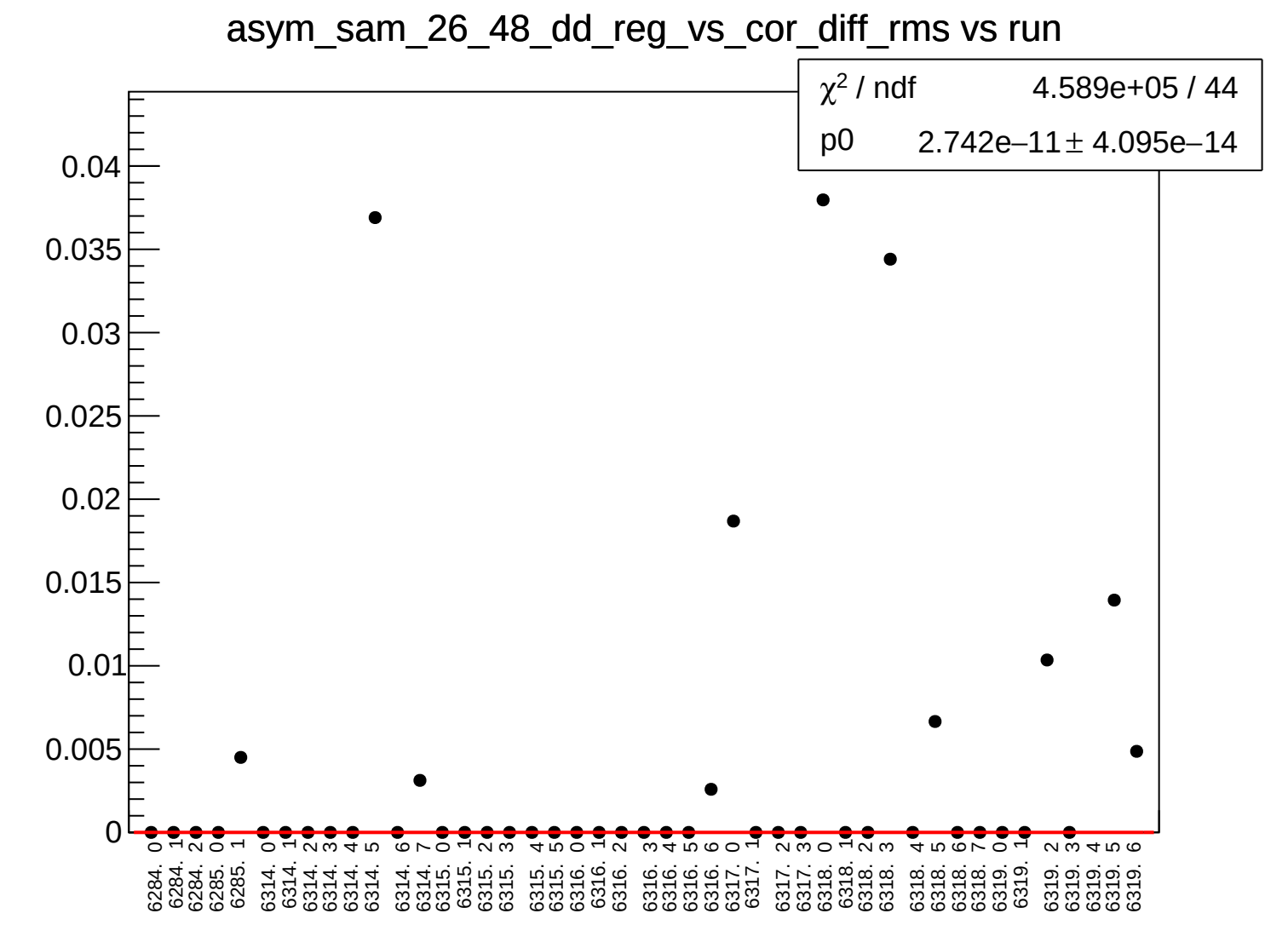
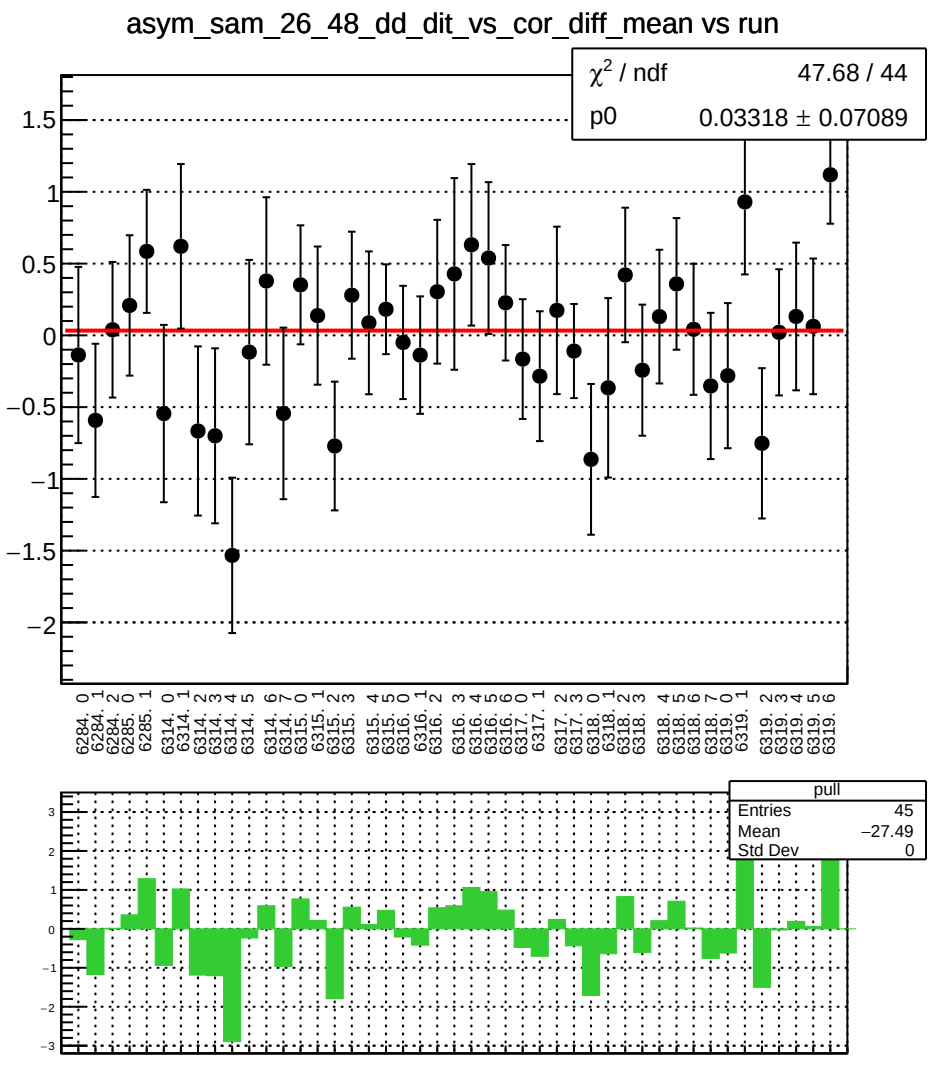
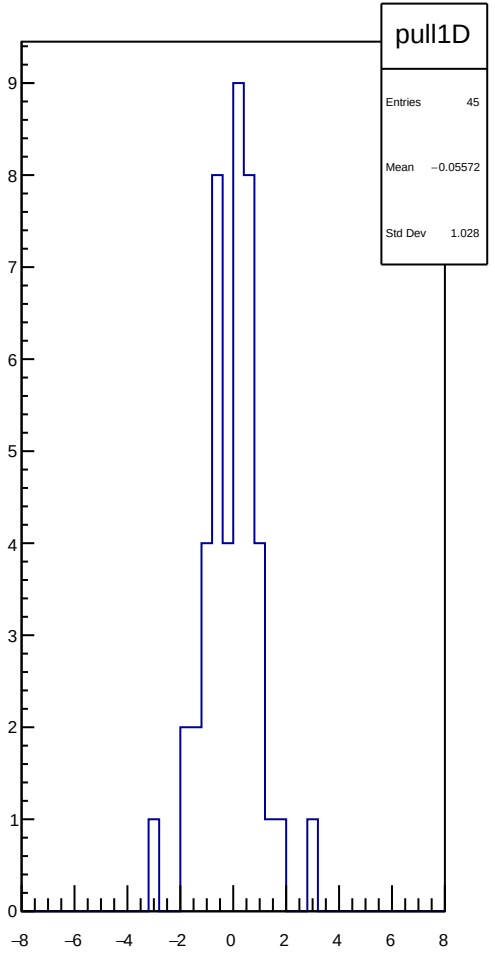
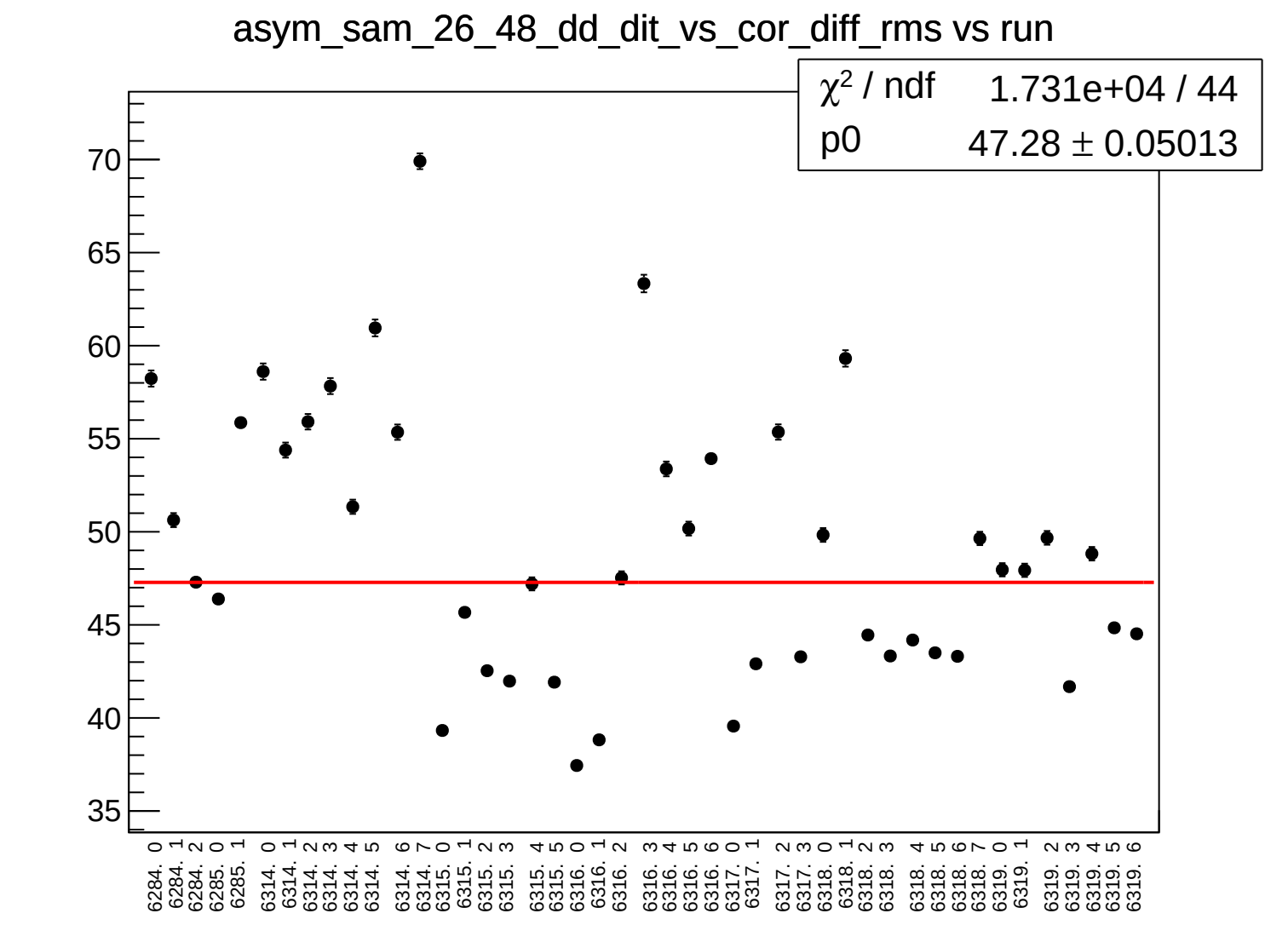
6319. 4
6319. 5
6319. 6

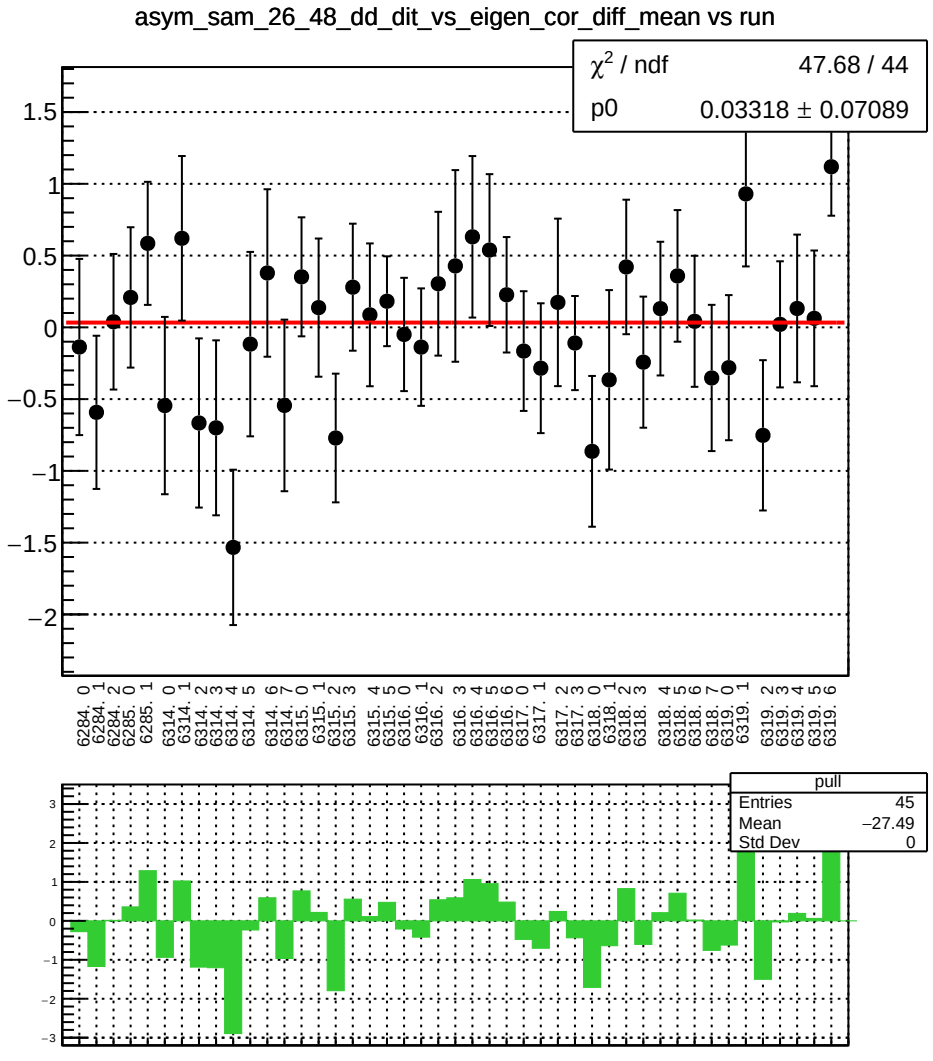

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.35 / 44
p0 2.003e−14 ± 5.791e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01775
Std Dev 0.7936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

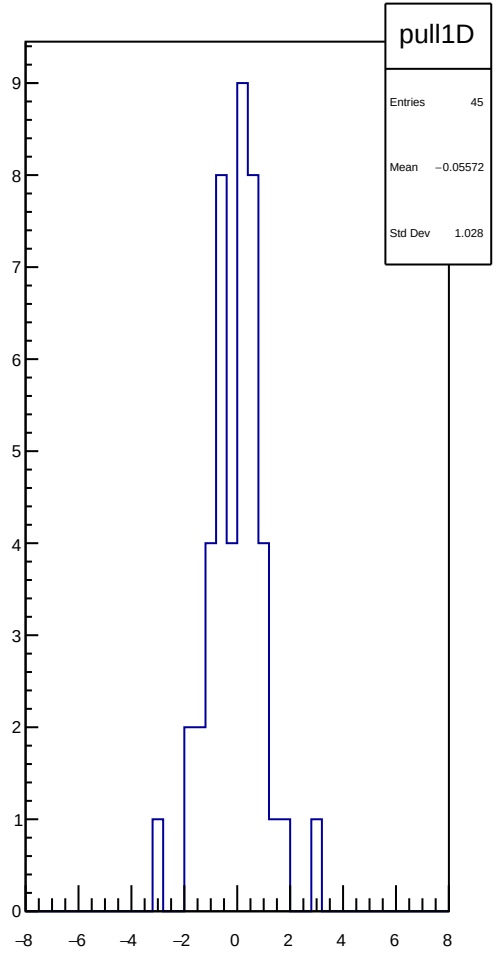

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.589e+05 / 44
p0 2.742e−11 ± 4.095e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

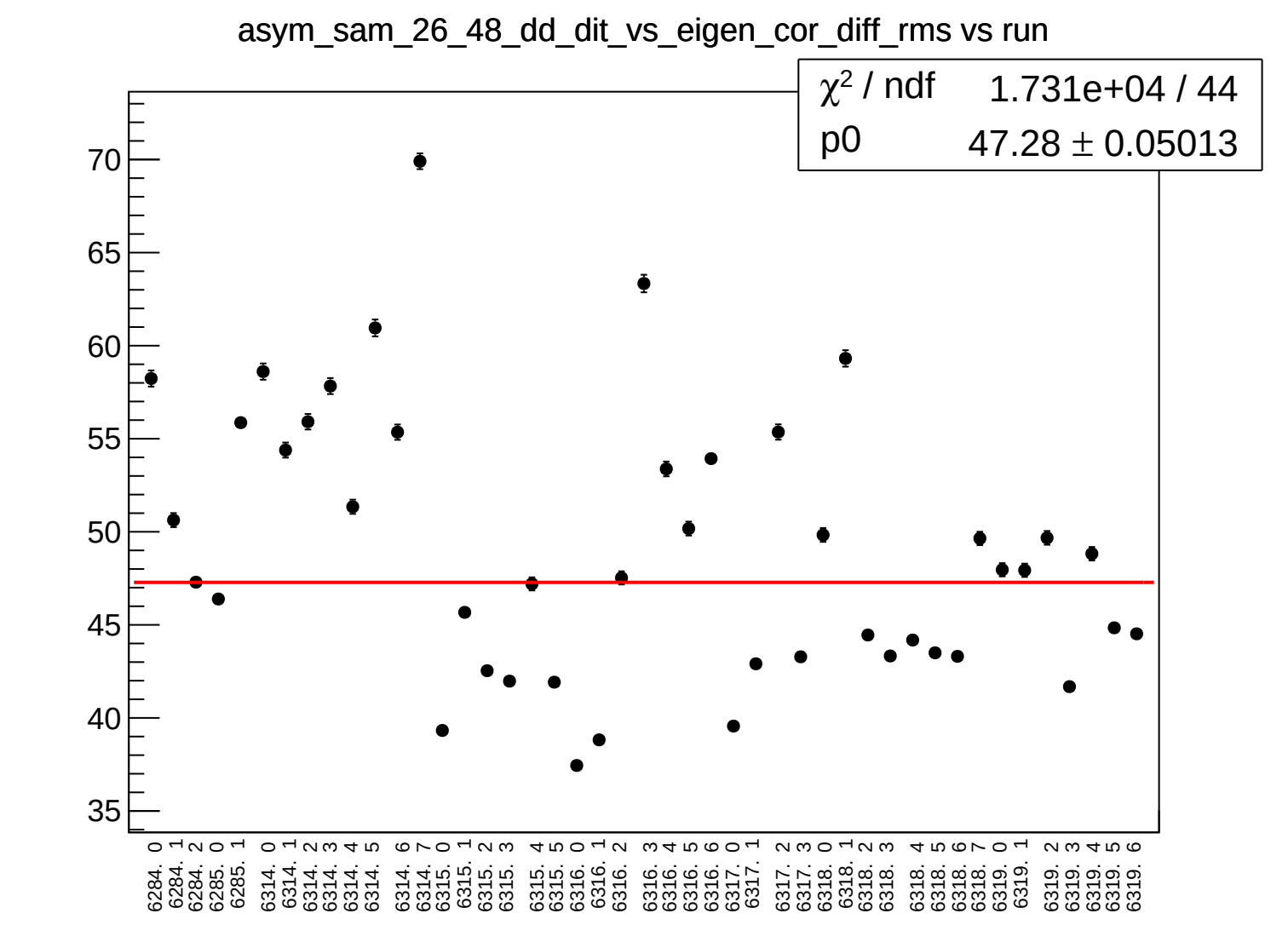

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 44
p0 0.03318 ± 0.07089
pull
Entries 45
Mean −27.49
Std Dev 0

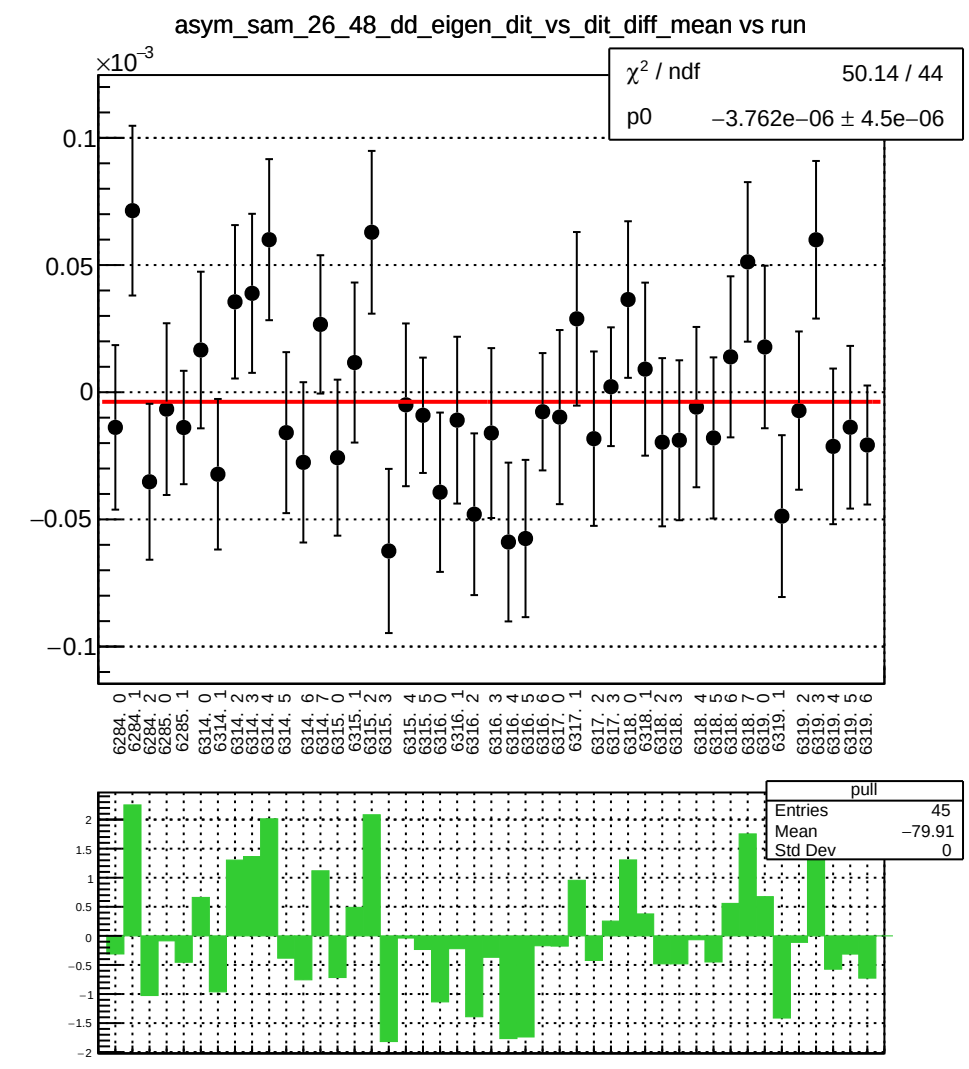

pull1D
Entries 45
Mean −0.05572
Std Dev 1.028

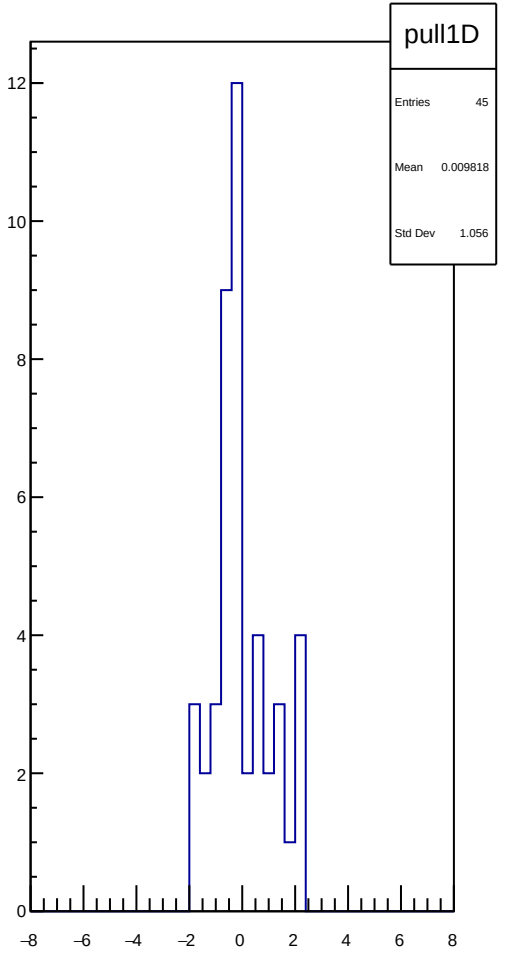

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+04 / 44
p0 47.28 ± 0.05013
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

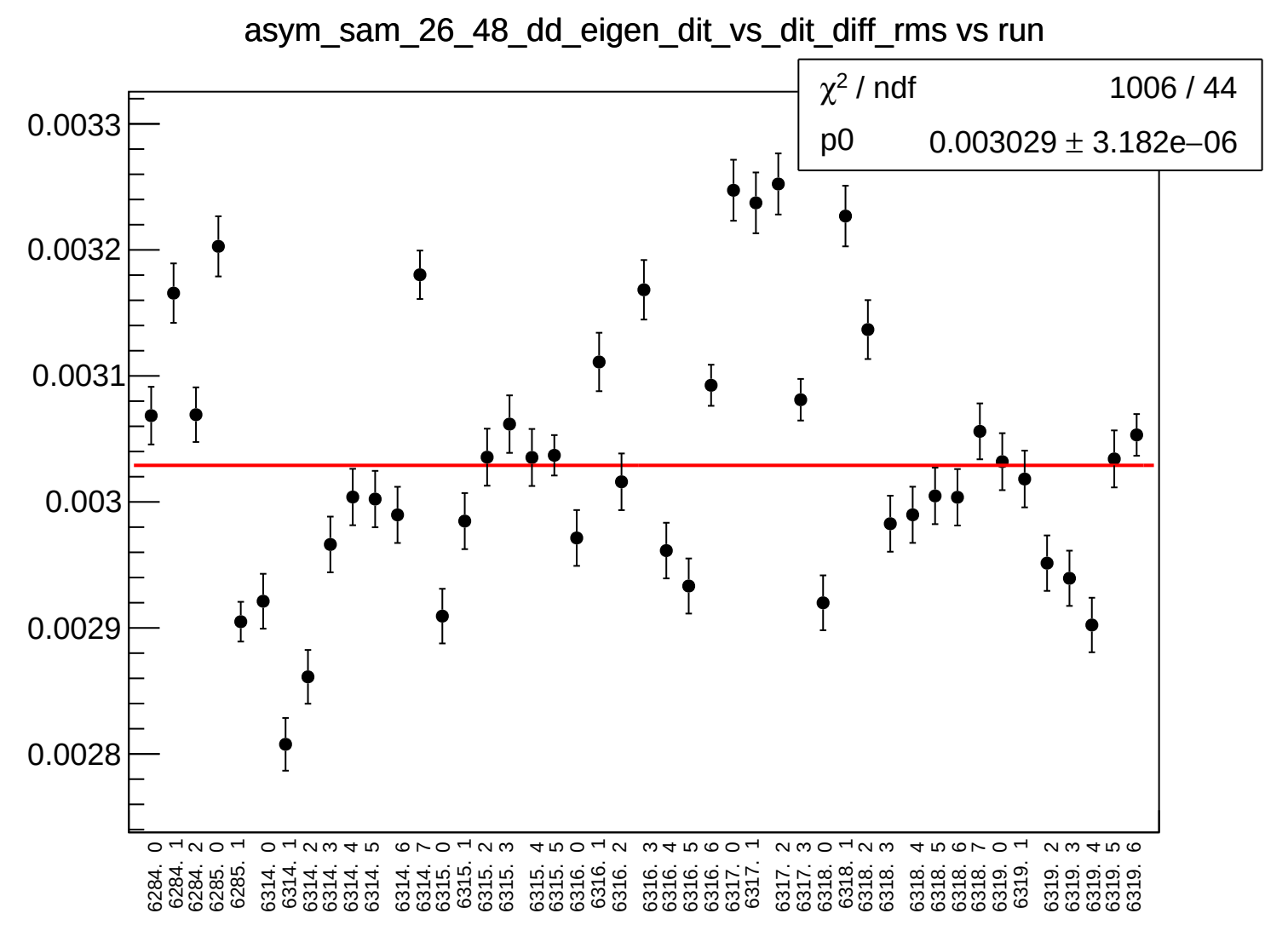

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 44
p0 0.03318 ± 0.07089
pull
Entries 45
Mean −27.49
Std Dev 0

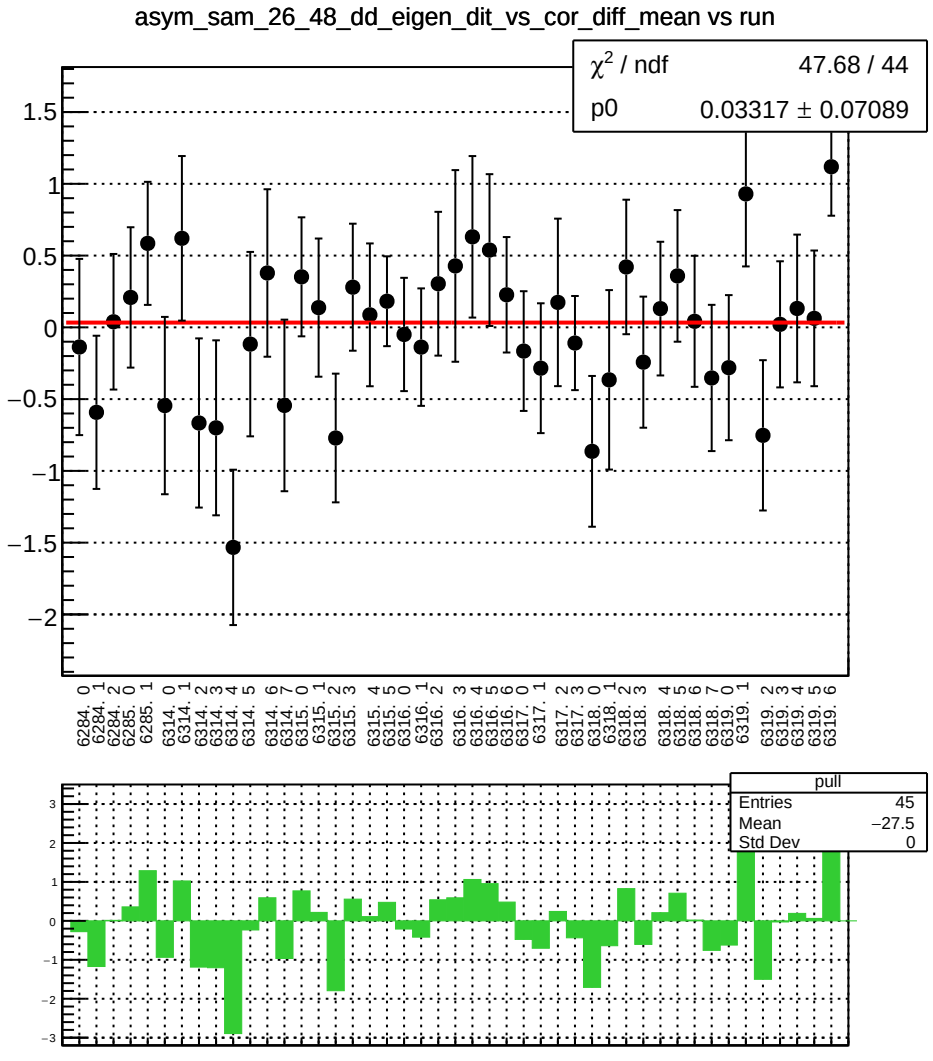

pull1D
Entries 45
Mean −0.05572
Std Dev 1.028

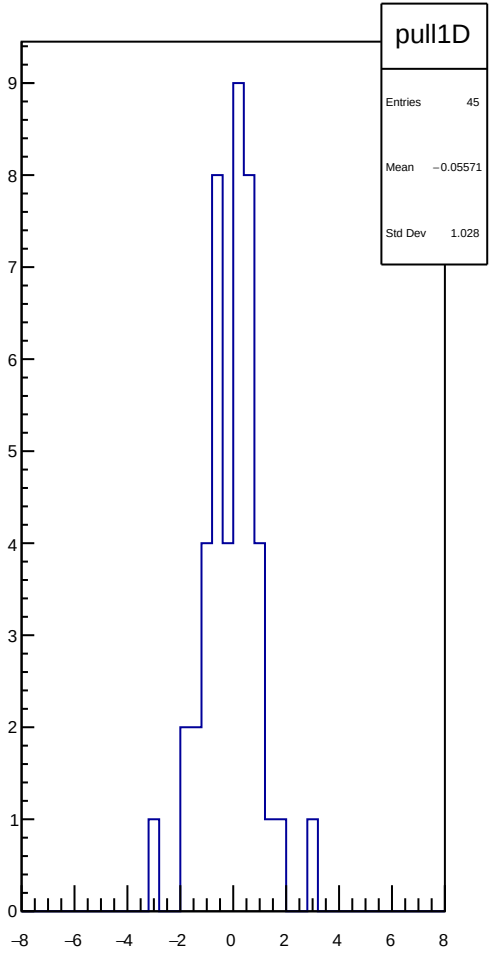

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+04 / 44
p0 47.28 ± 0.05013
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

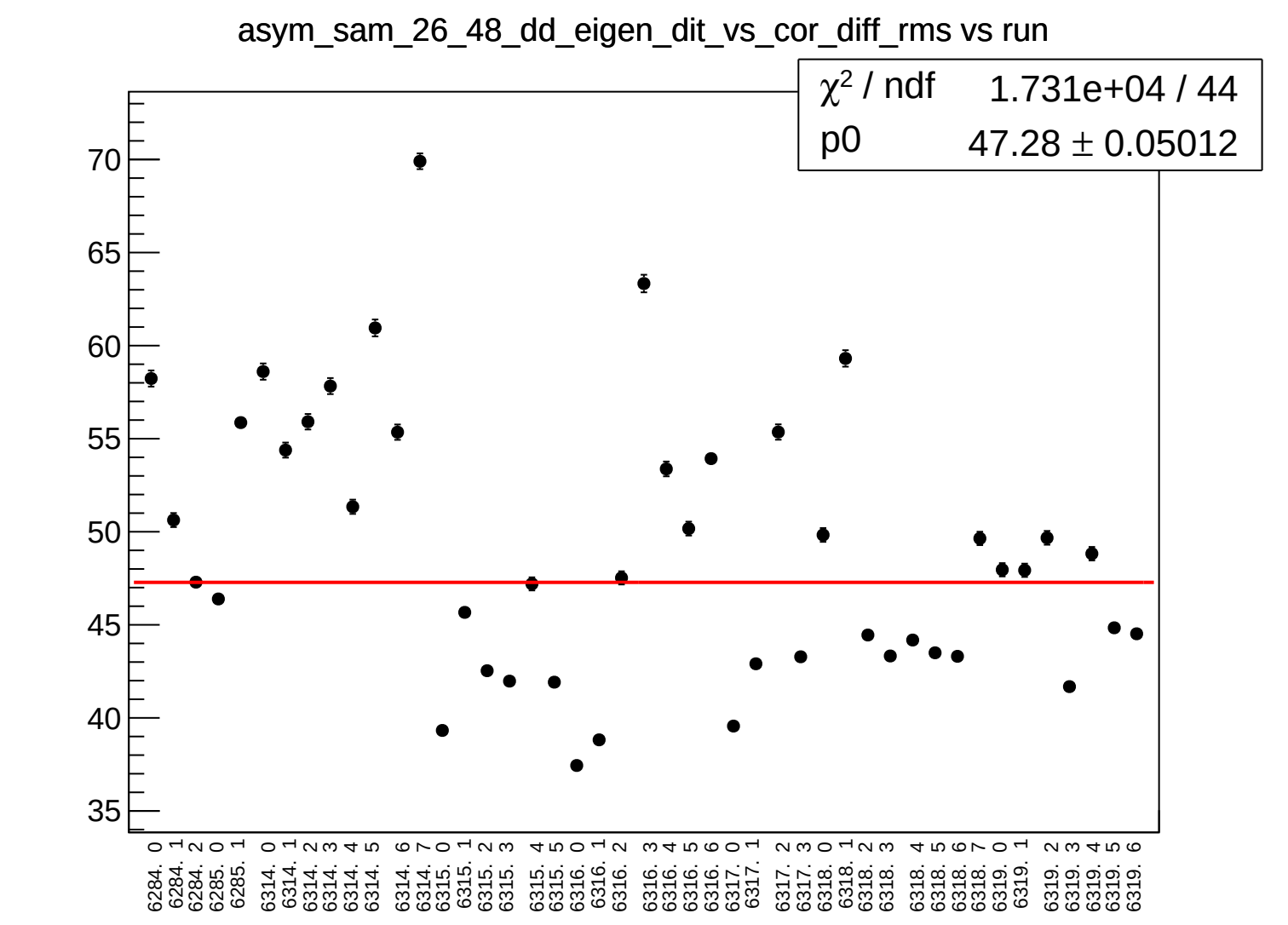

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.14 / 44
p0 −3.762e−06 ± 4.5e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

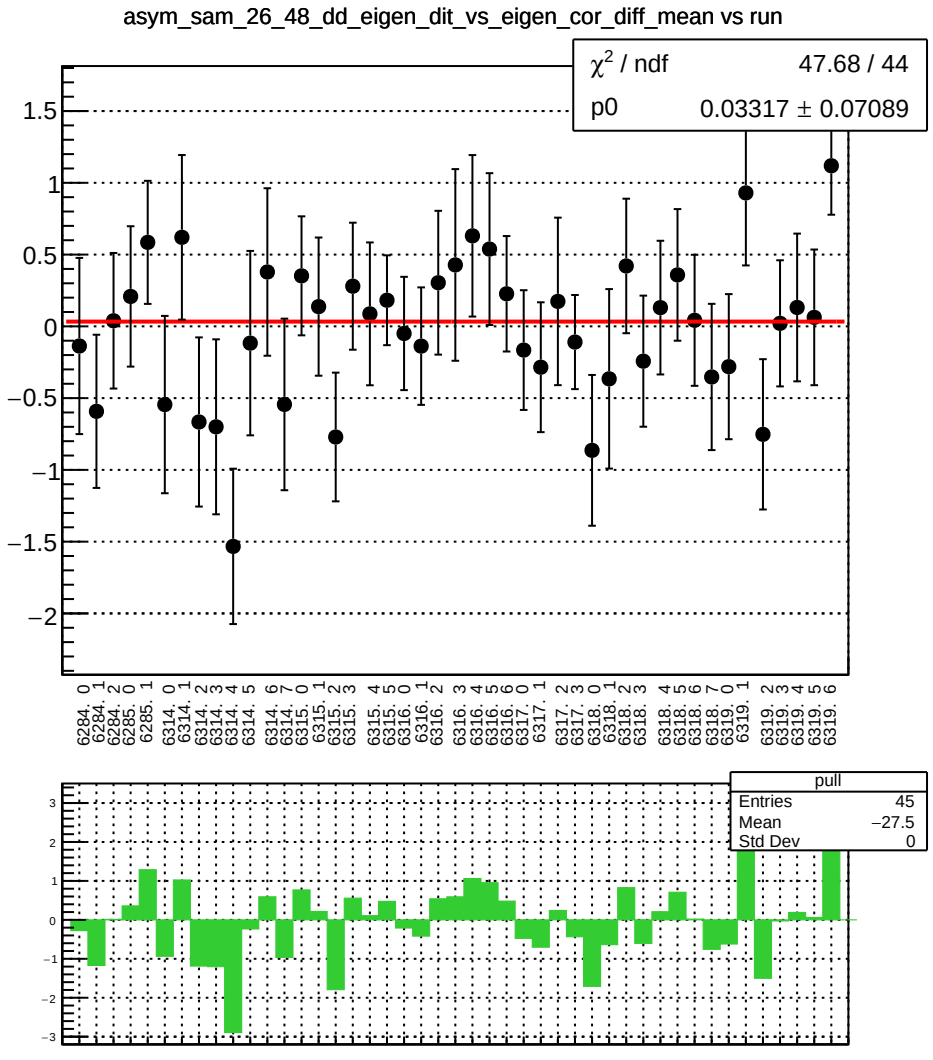

pull1D
Entries 45
Mean 0.009818
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

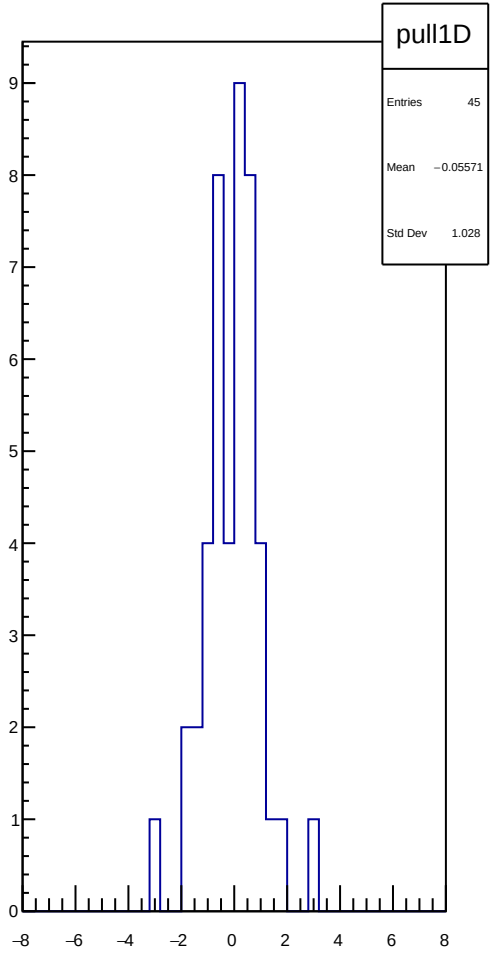

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1006 / 44
p0 0.003029 ± 3.182e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

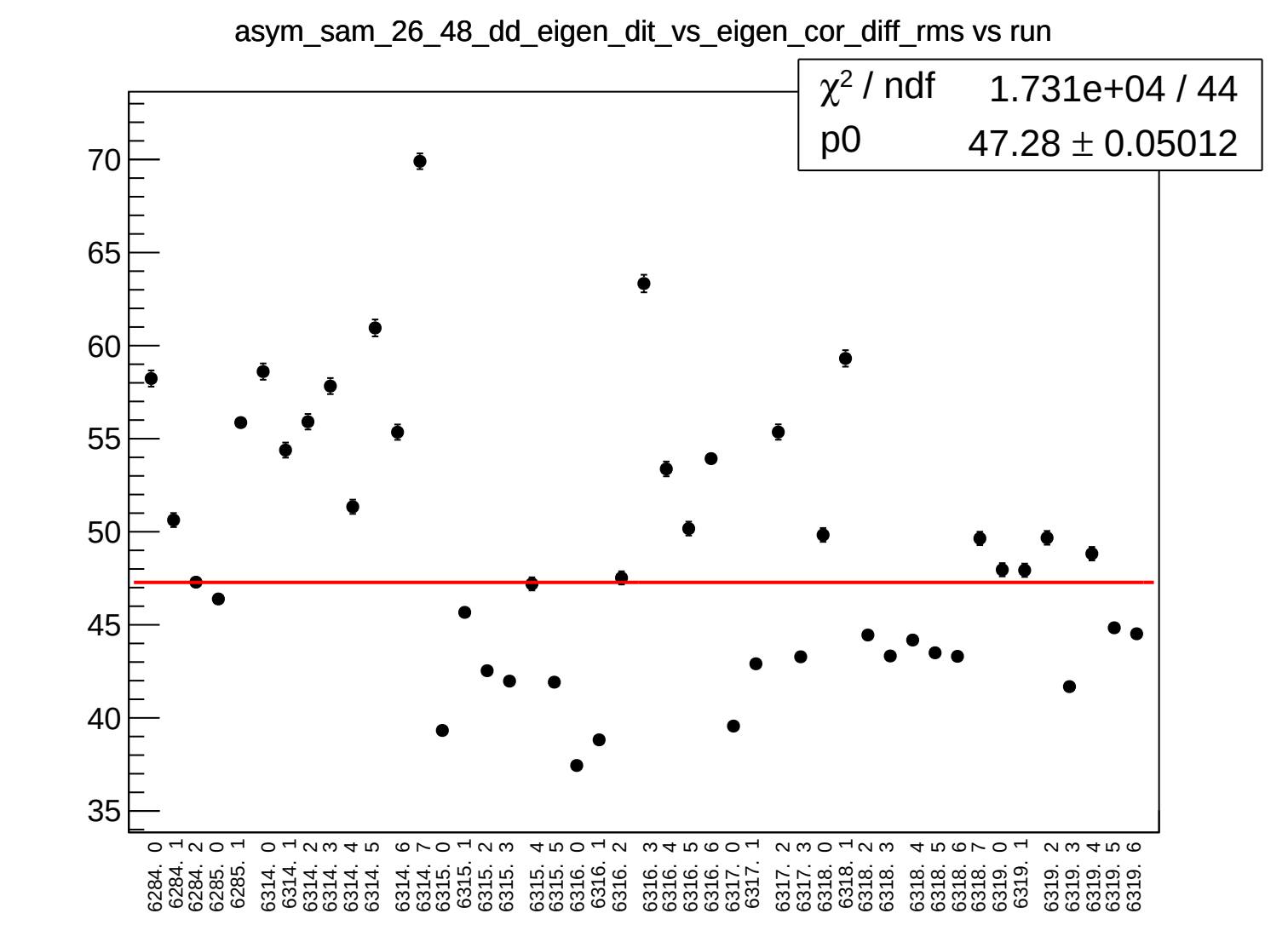

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 44
p0 0.03317 ± 0.07089
pull
Entries 45
Mean −27.5
Std Dev 0

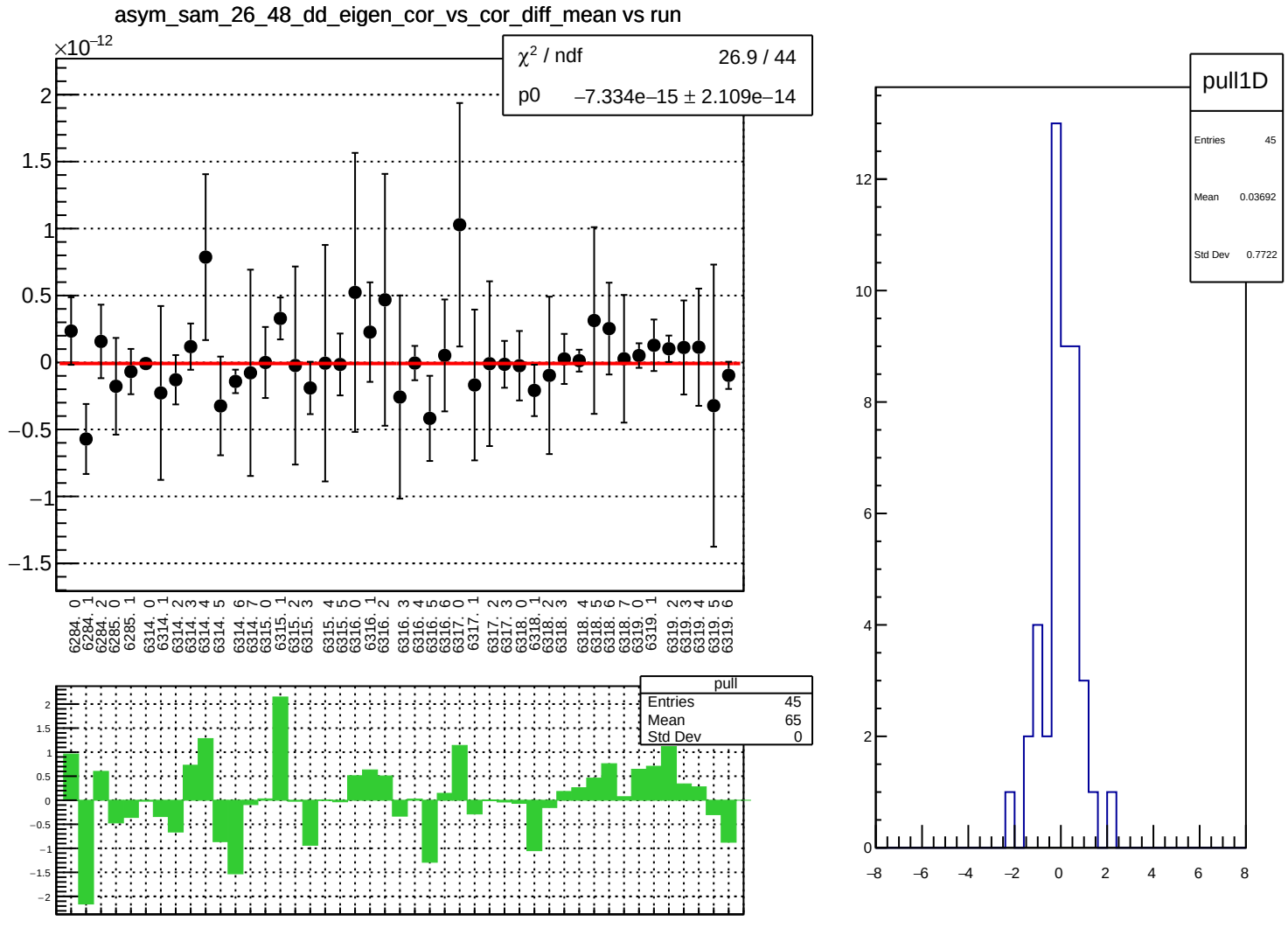

pull1D
Entries 45
Mean −0.05571
Std Dev 1.028

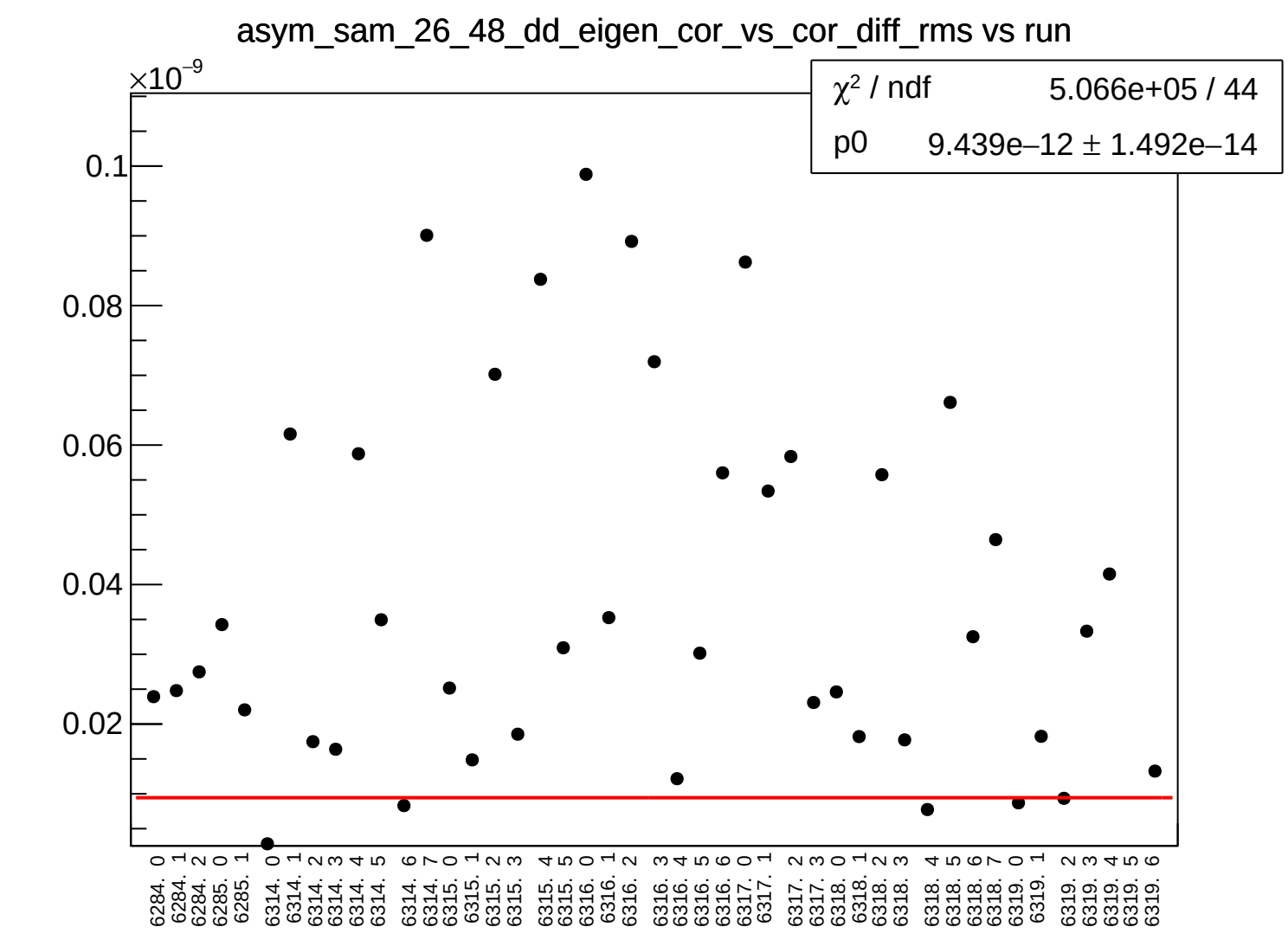

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+04 / 44
p0 47.28 ± 0.05012
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

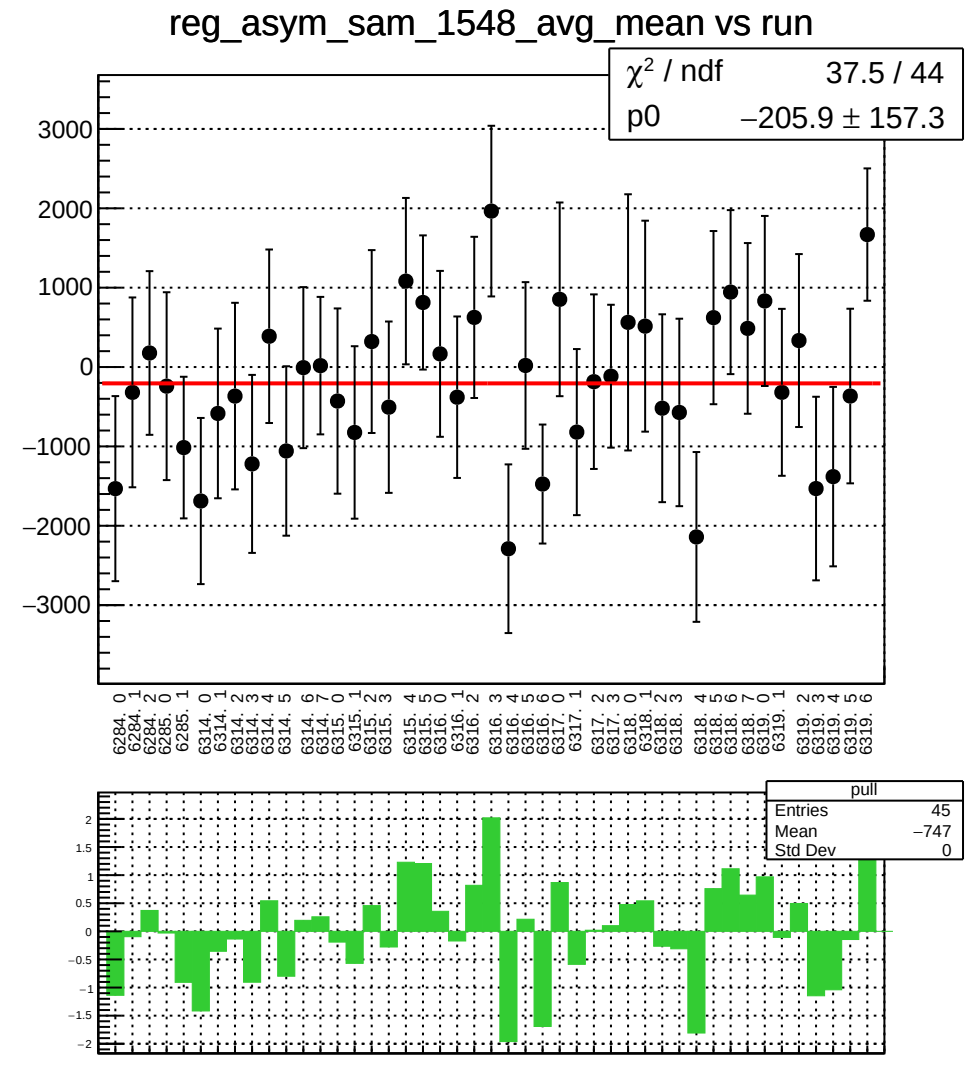

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 44
p0 0.03317 ± 0.07089
pull
Entries 45
Mean −27.5
Std Dev 0

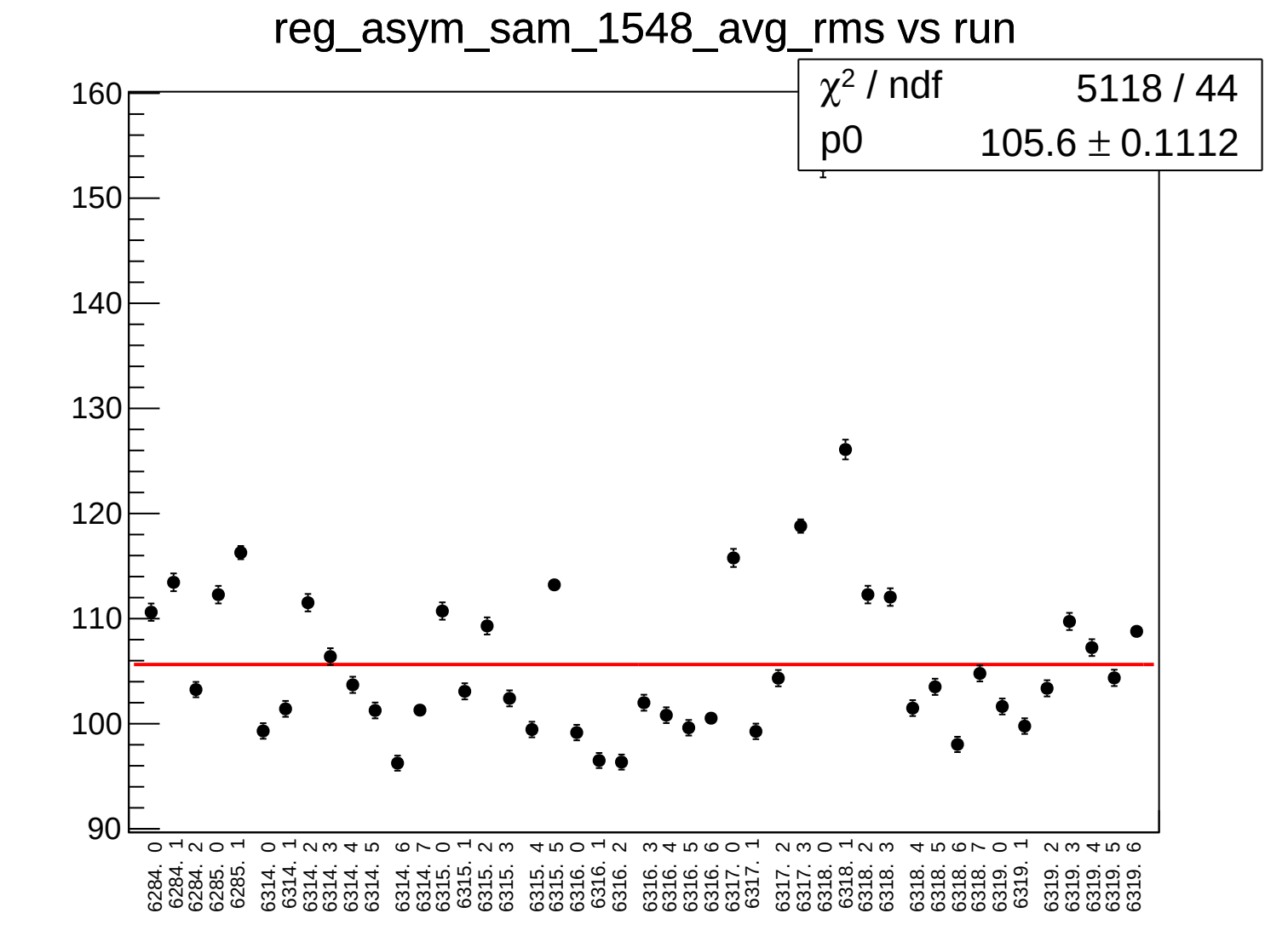

pull1D
Entries 45
Mean −0.05571
Std Dev 1.028

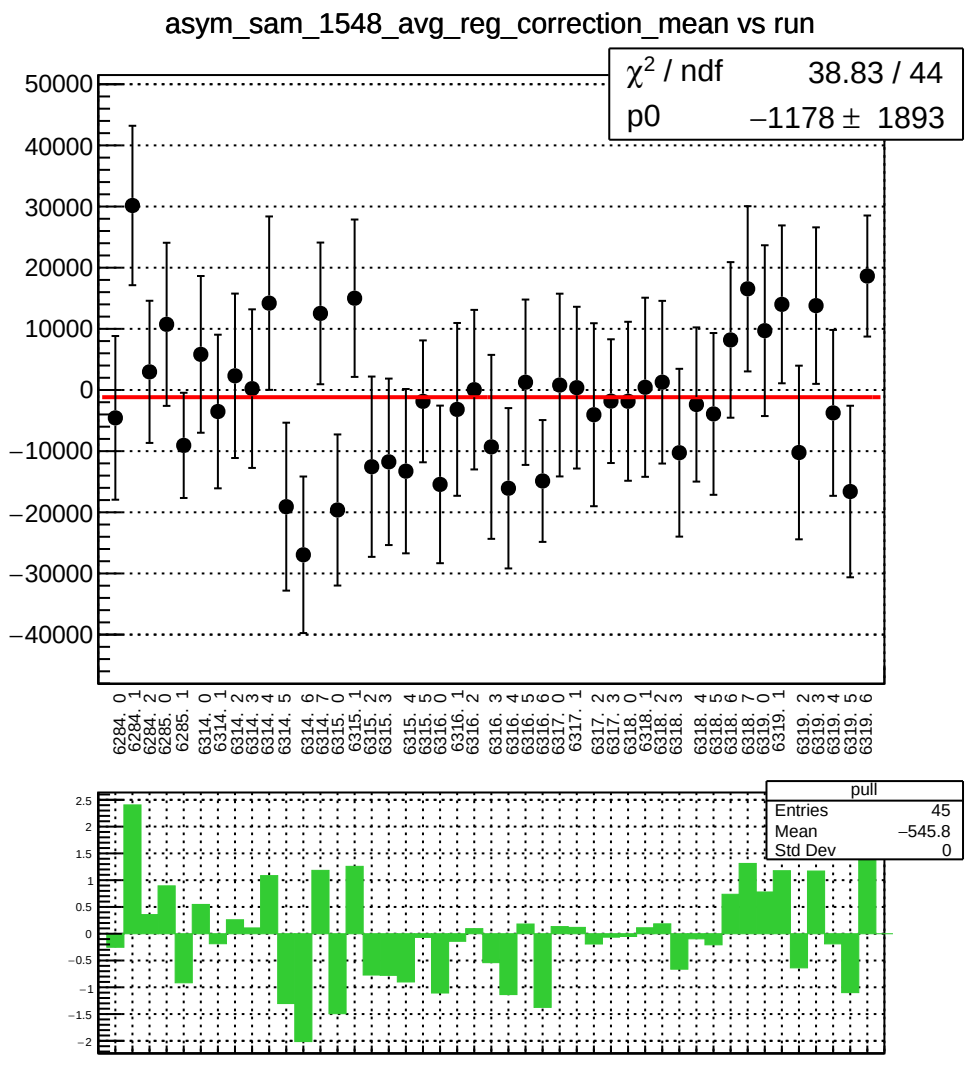

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+04 / 44
p0 47.28 ± 0.05012
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

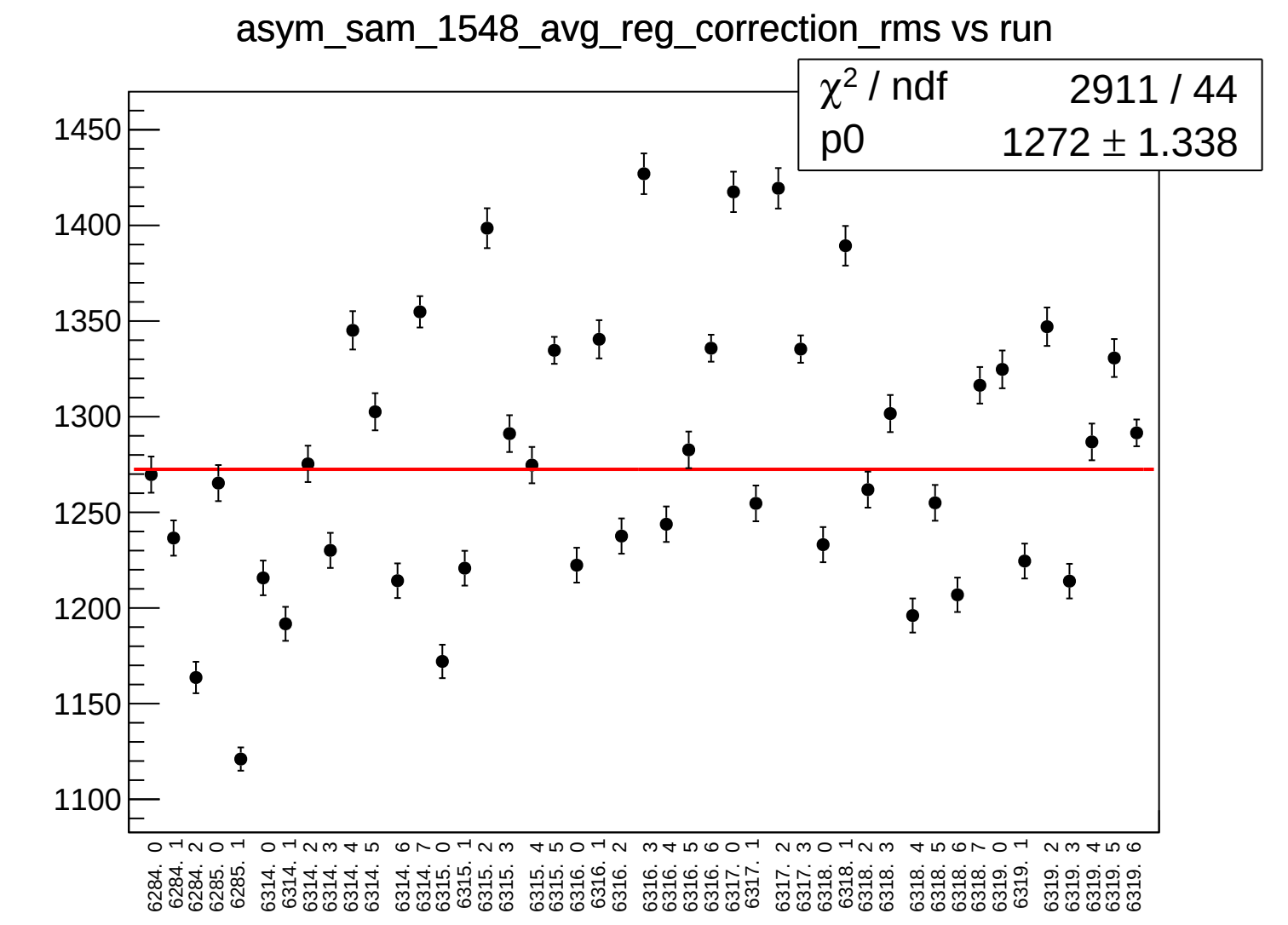

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 26.9 / 44
p0 −7.334e−15 ± 2.109e−14
pull
Entries 45
Mean 65
Std Dev 0
pull1D
Entries 45
Mean 0.03692
Std Dev 0.7722

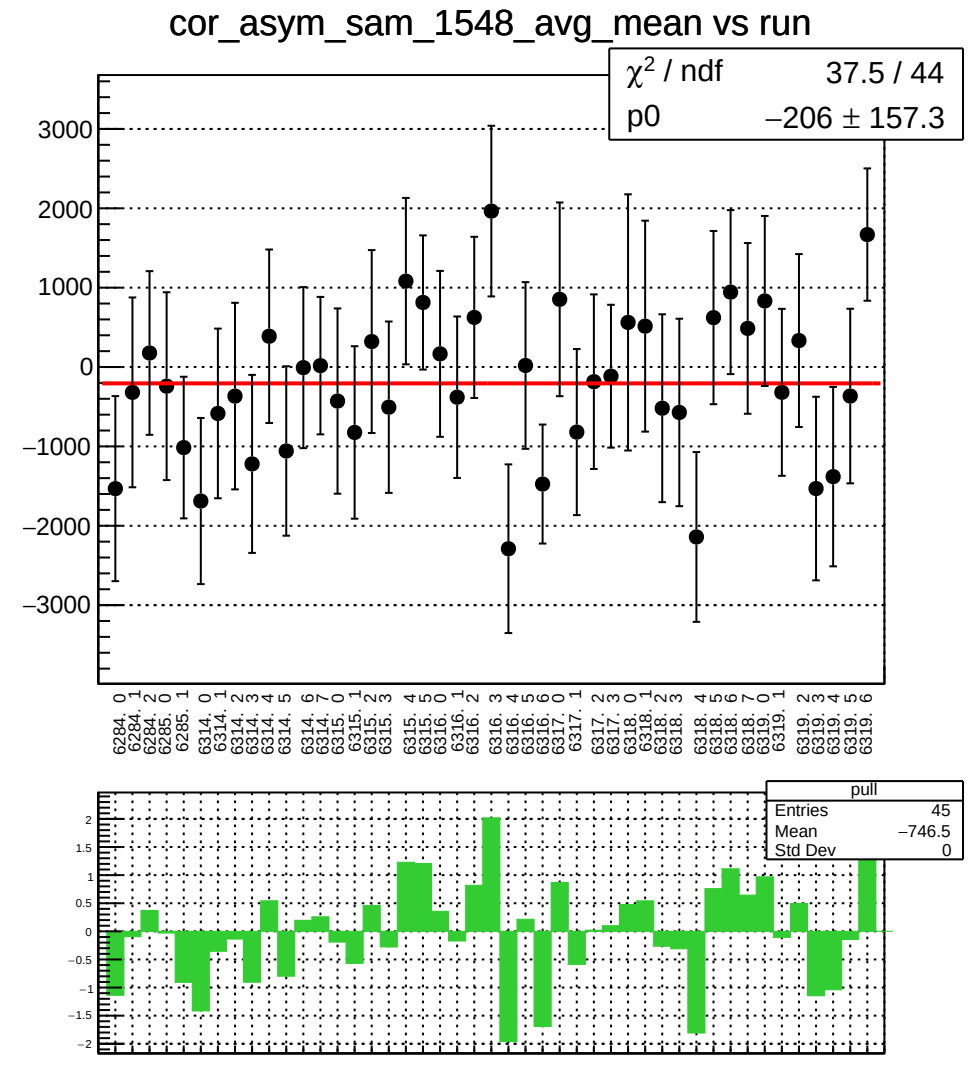

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.066e+05 / 44
p0 9.439e−12 ± 1.492e−14
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

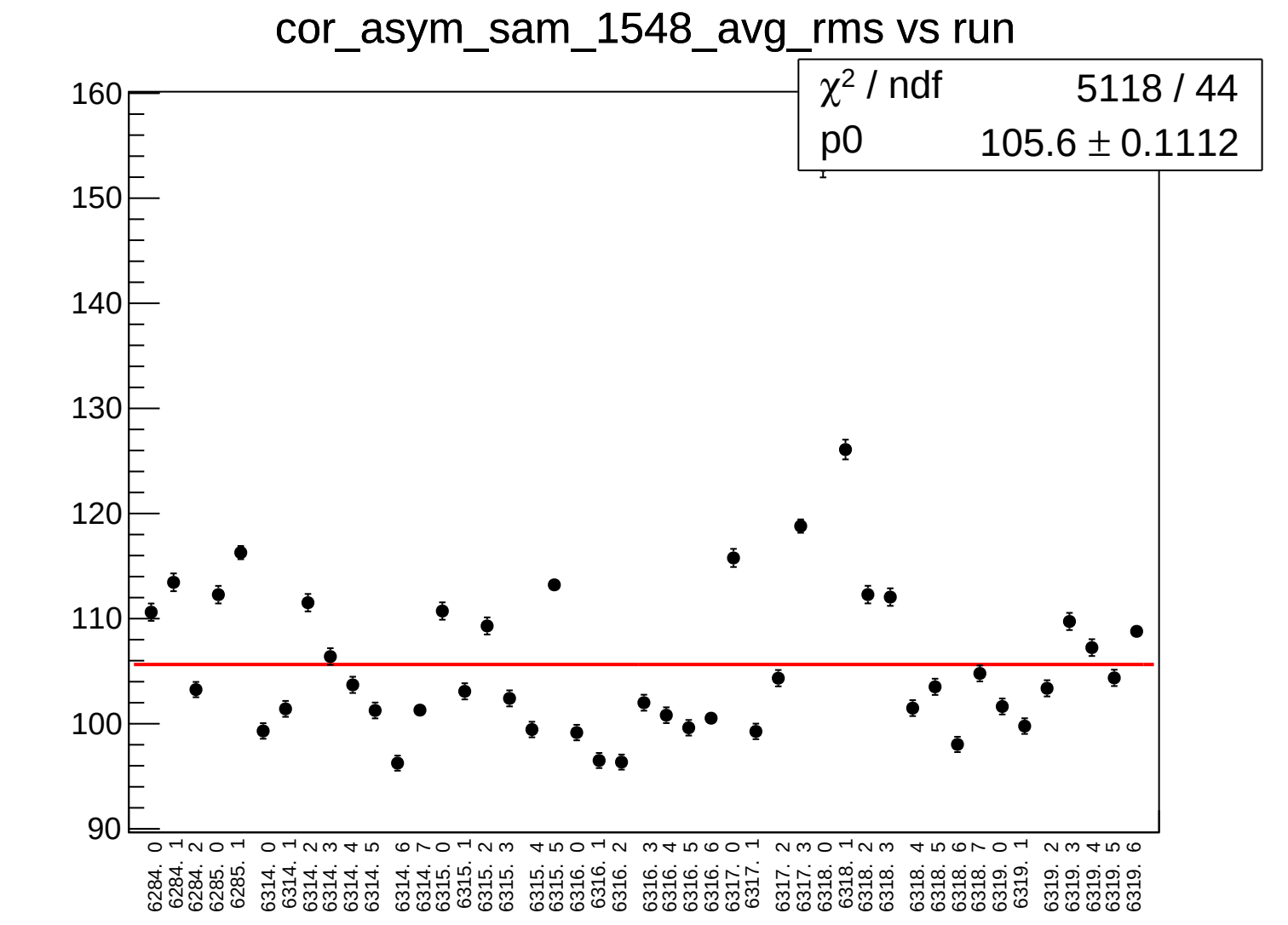

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 37.5 / 44
p0 −205.9 ± 157.3
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −747
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003125
Std Dev 0.9128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

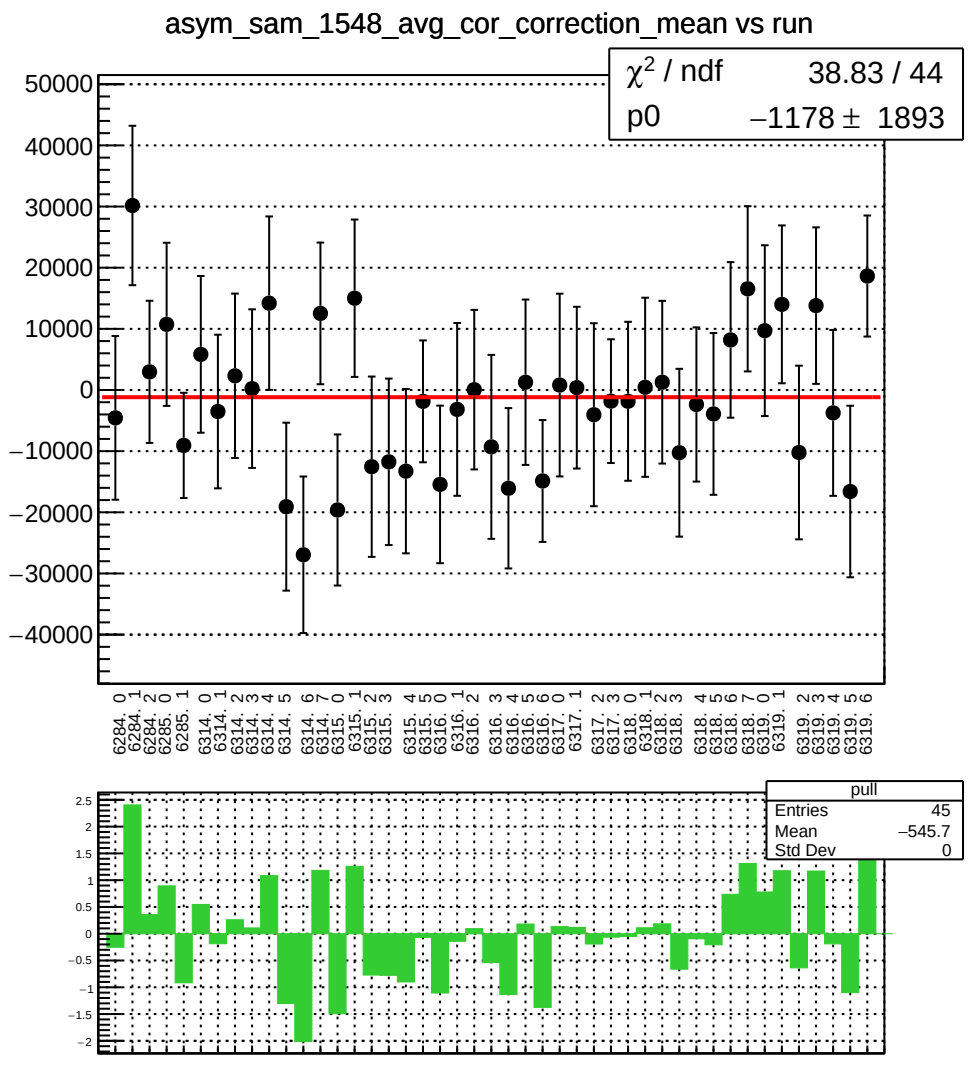

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 5118 / 44
p0 105.6 ± 0.1112
160
150
140
130
120
110
100
90
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

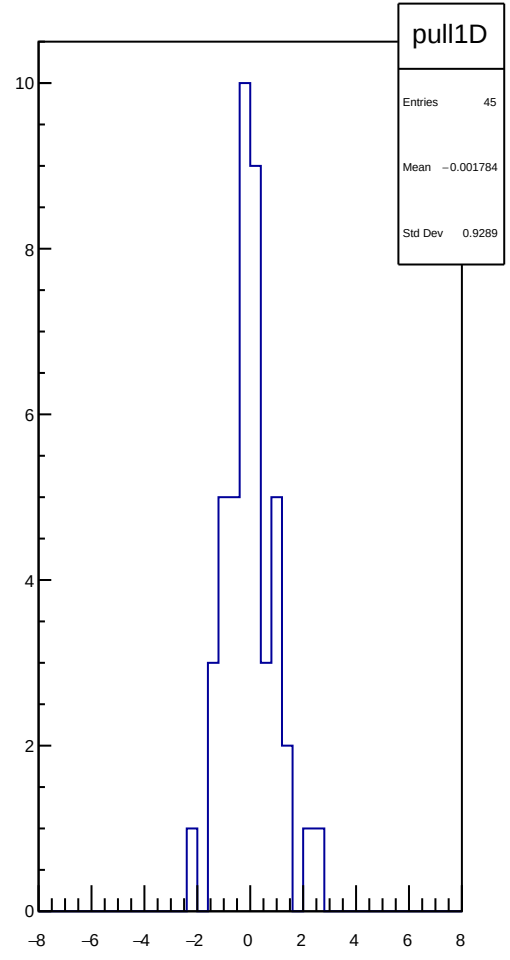

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 38.83 / 44
p0 −1178 ± 1893
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −545.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001784
Std Dev 0.9289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

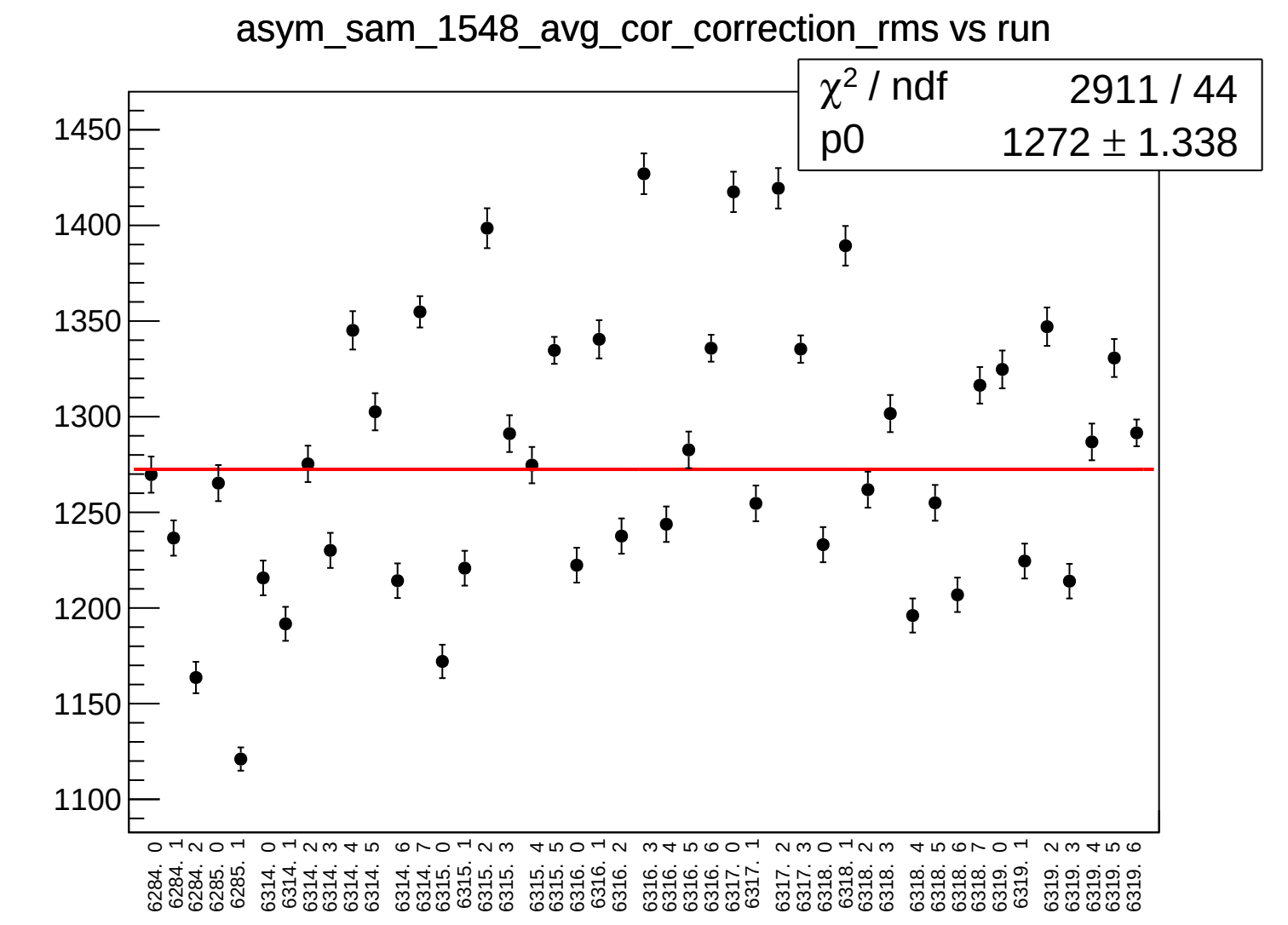

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2911 / 44
p0 1272 ± 1.338
1450
1400
1350
1300
1250
1200
1150
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

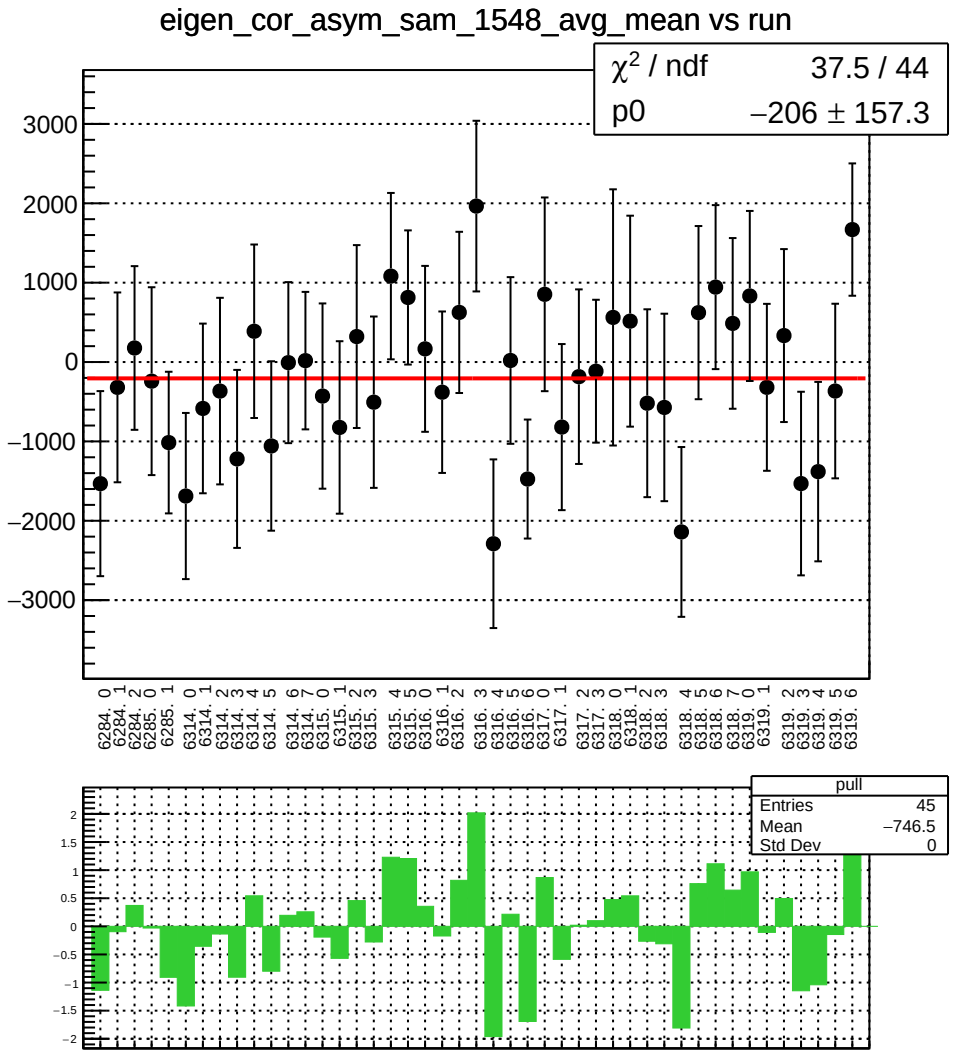

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.5 / 44
p0 −206 ± 157.3
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −746.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003126
Std Dev 0.9128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

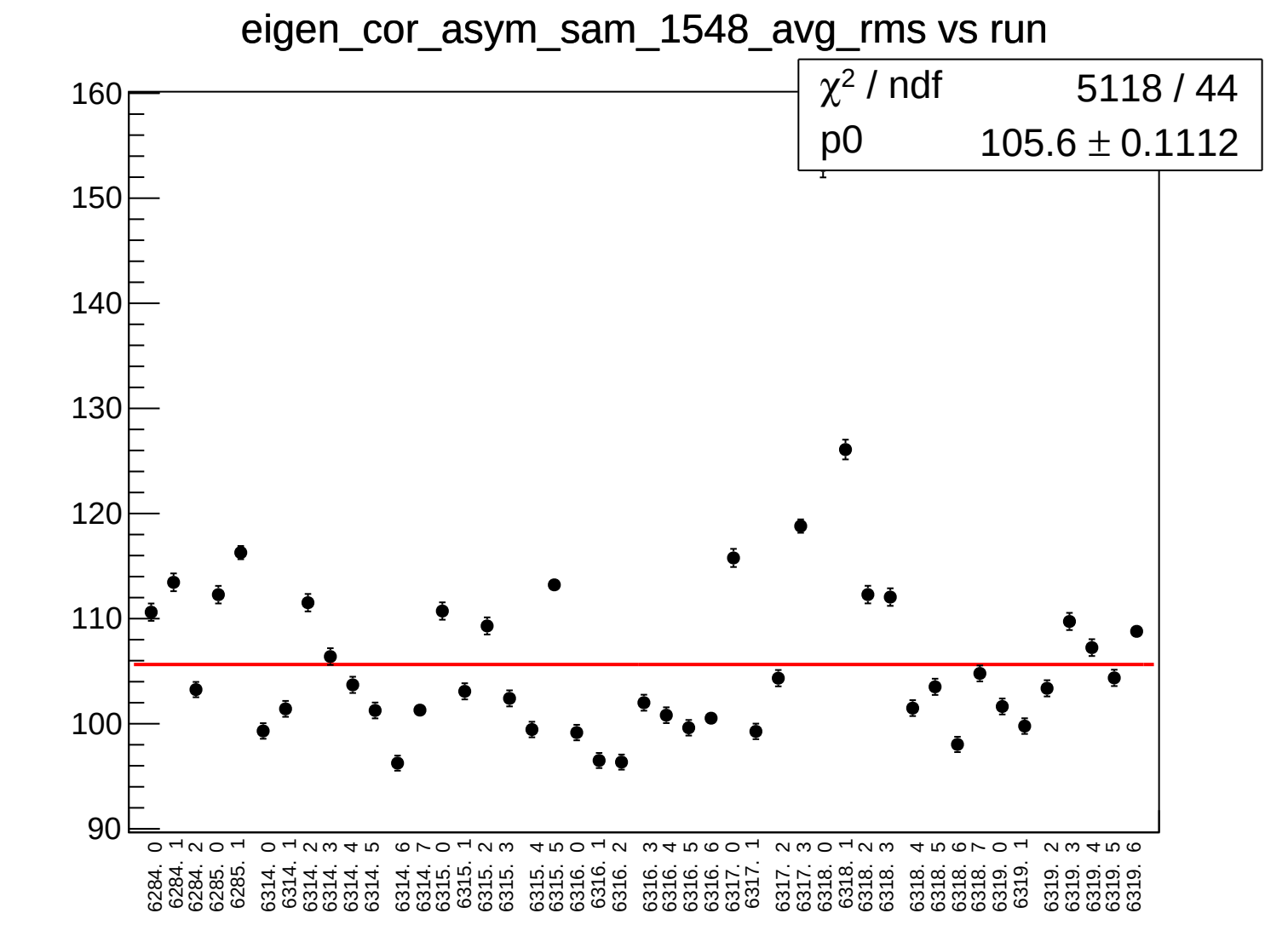

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5118 / 44
p0 105.6 ± 0.1112
160
150
140
130
120
110
100
90
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

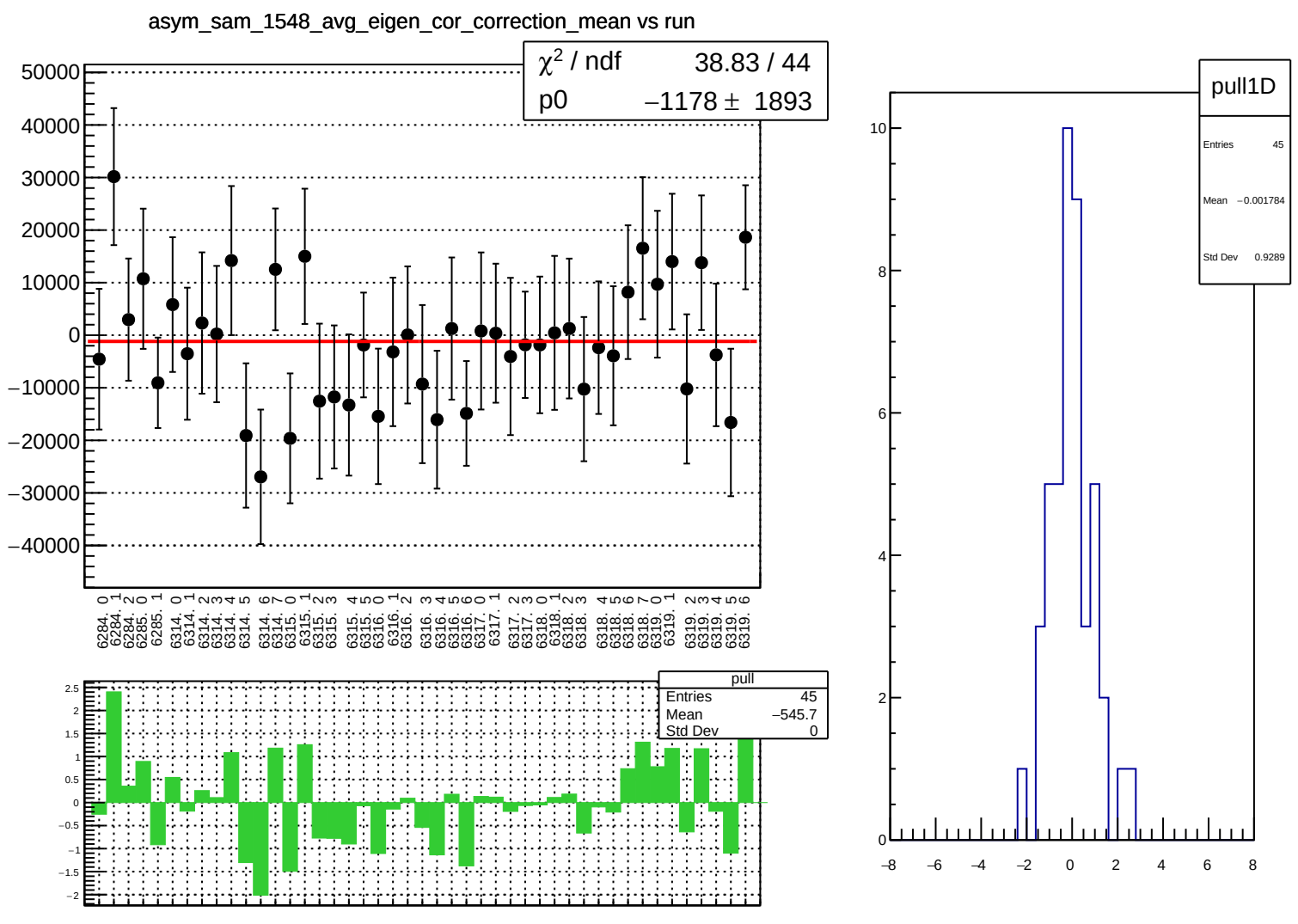

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 38.83 / 44
p0 −1178 ± 1893
pull
Entries 45
Mean −545.7
Std Dev 0

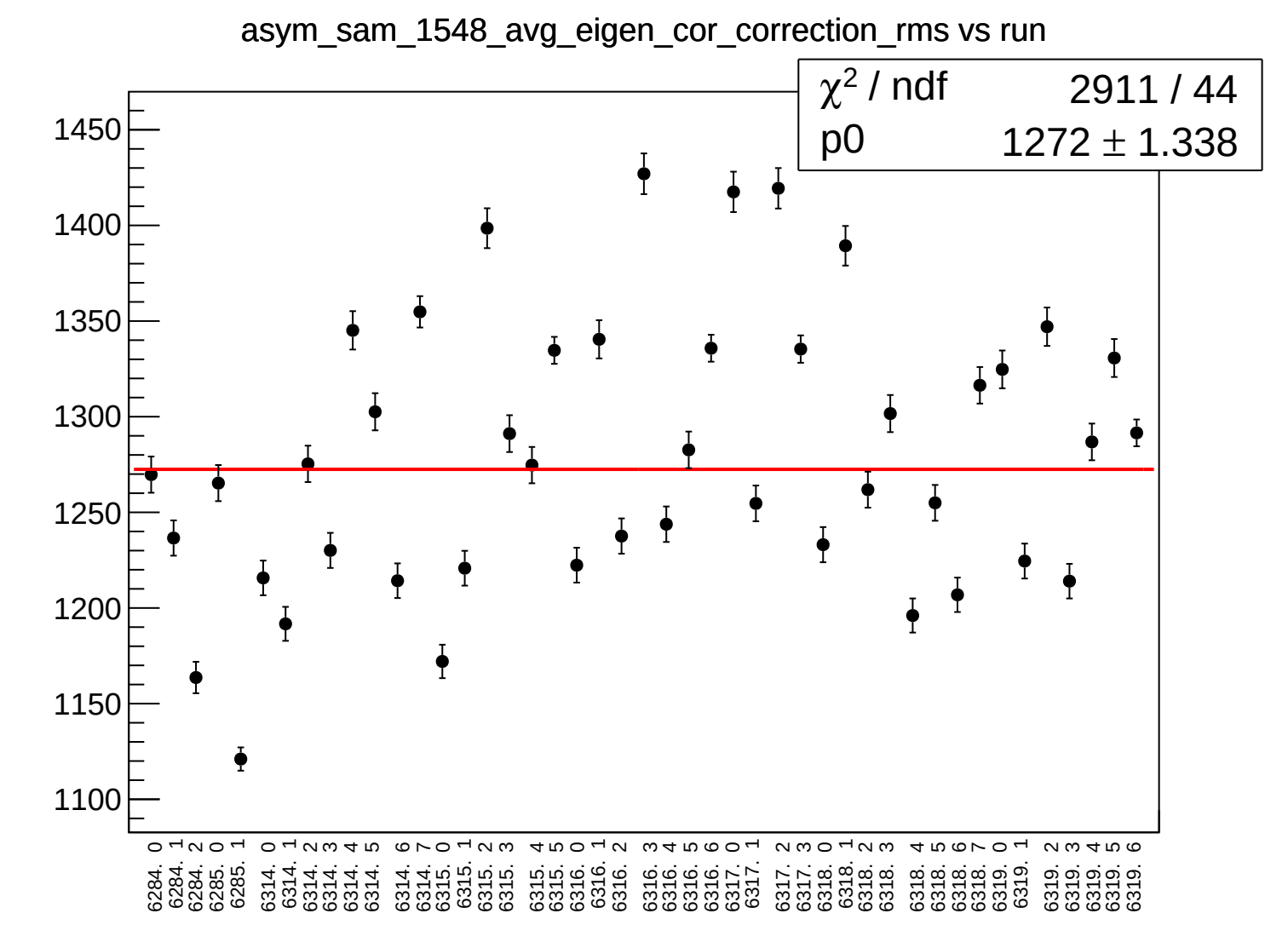

pull1D
Entries 45
Mean −0.001784
Std Dev 0.9289


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2911 / 44
p0 1272 ± 1.338
1450
1400
1350
1300
1250
1200
1150
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.5 / 44
p0 −206 ± 157.3
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −746.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.003126
Std Dev 0.9128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5118 / 44
p0 105.6 ± 0.1112
160
150
140
130
120
110
100
90
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 38.83 / 44
p0 −1178 ± 1893
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −545.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001784
Std Dev 0.9289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2911 / 44
p0 1272 ± 1.338
1450
1400
1350
1300
1250
1200
1150
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
6319. 1
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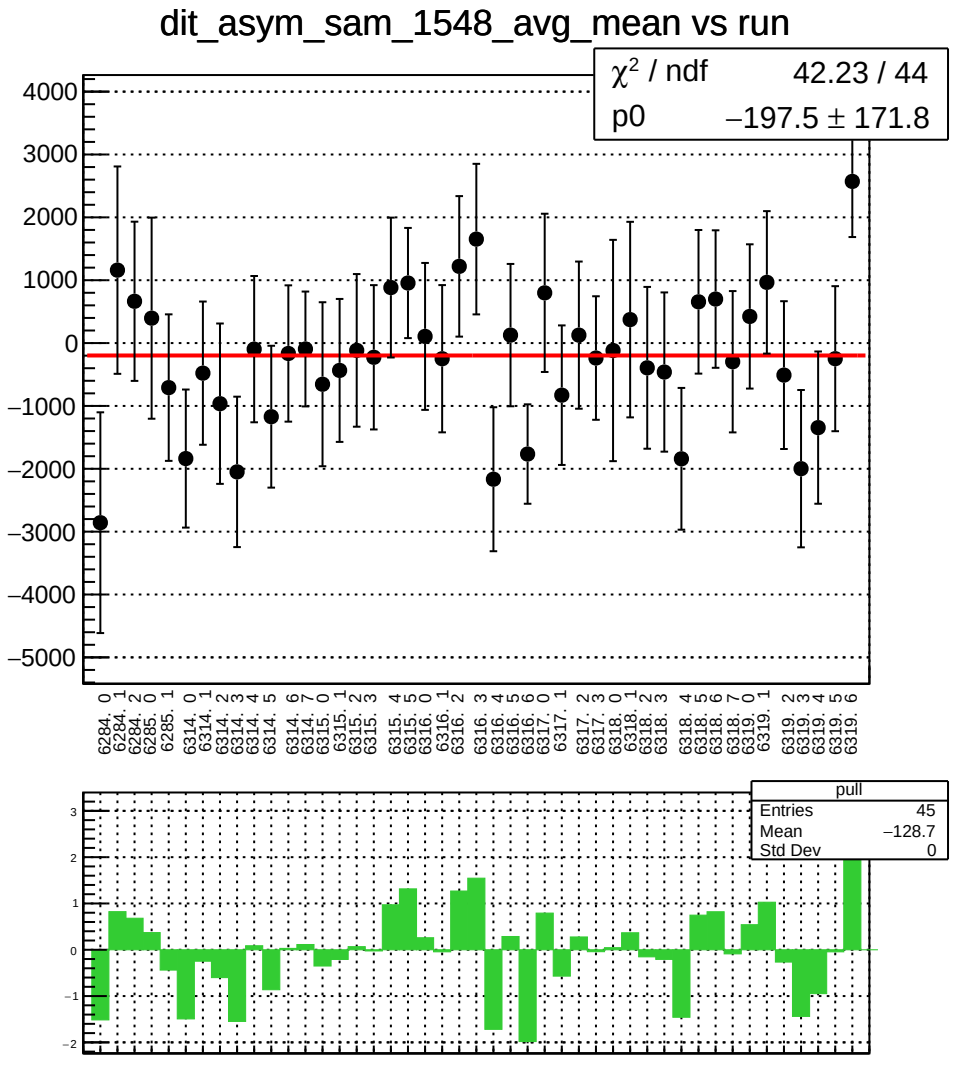
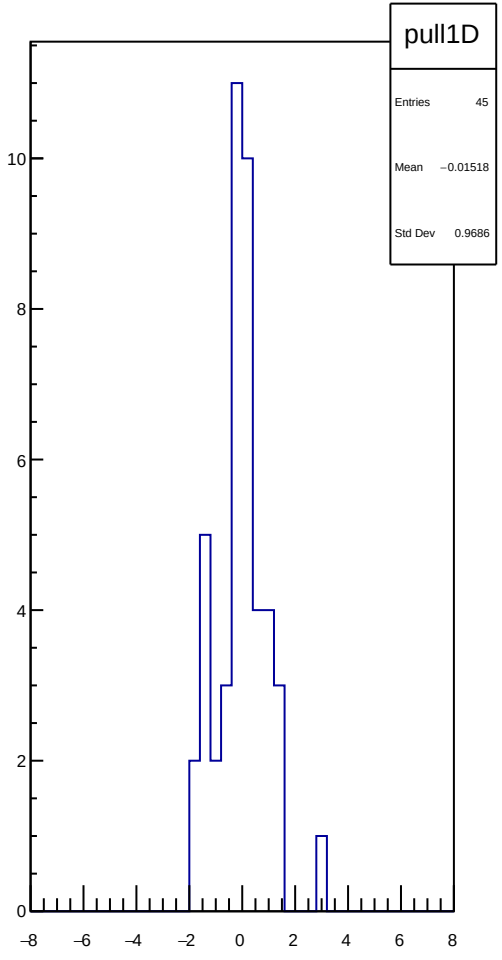
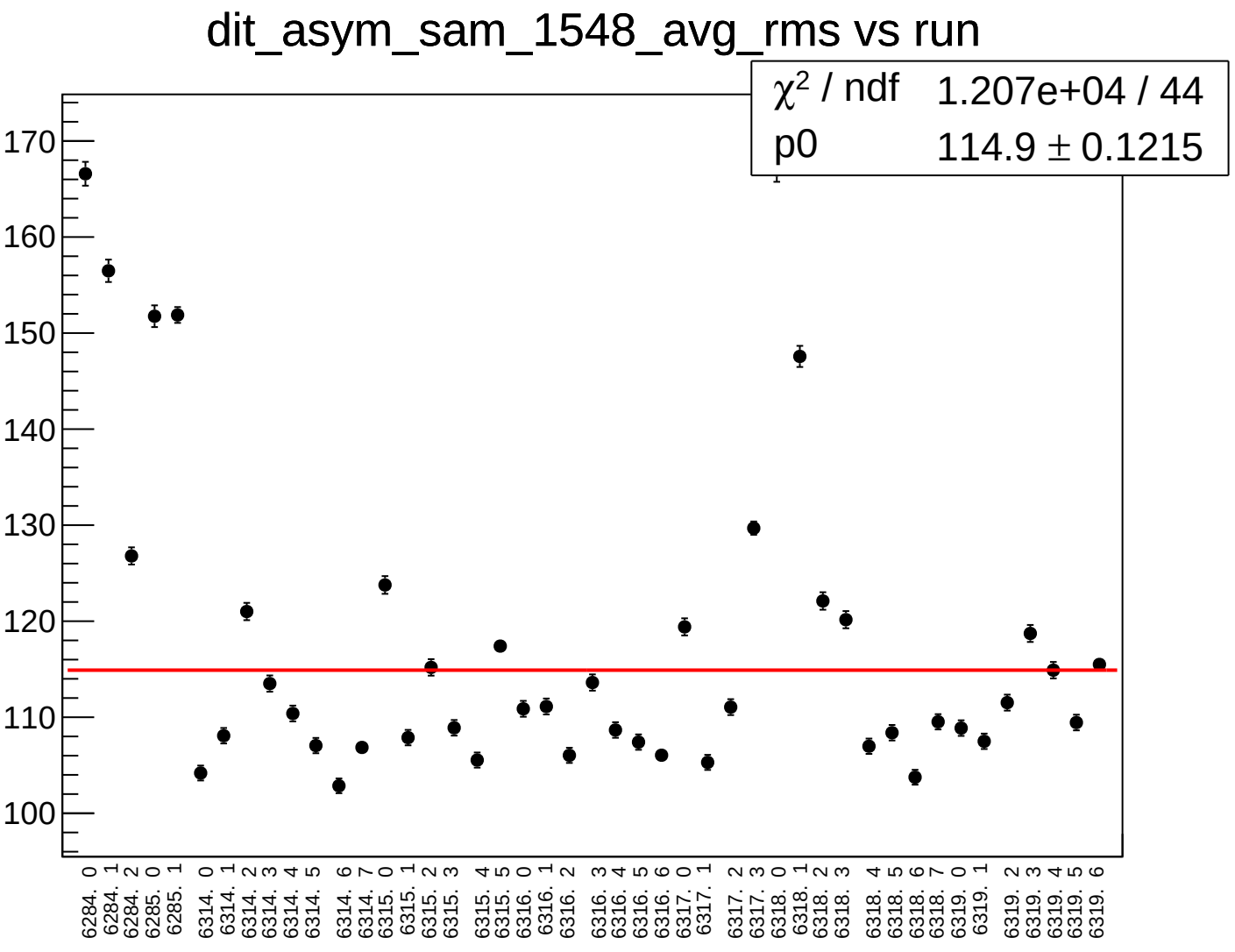
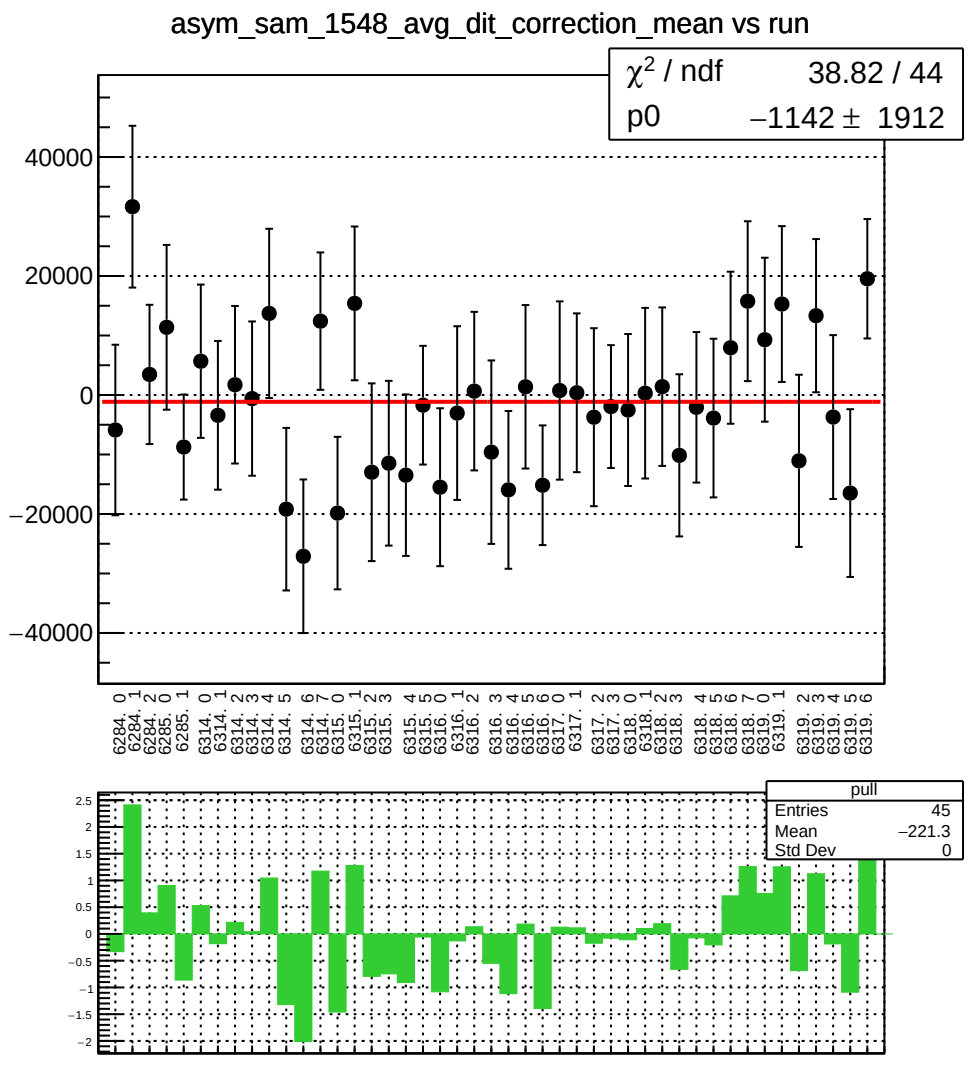
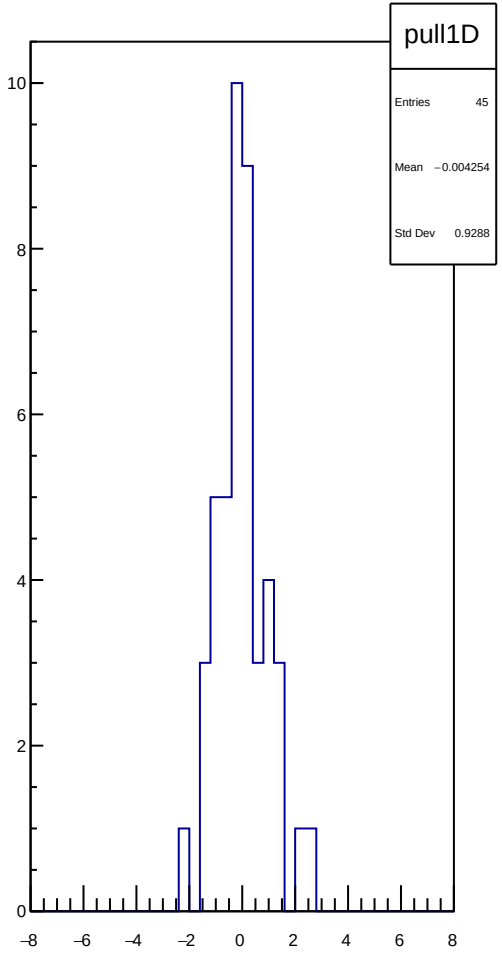
6319. 5
6319. 6

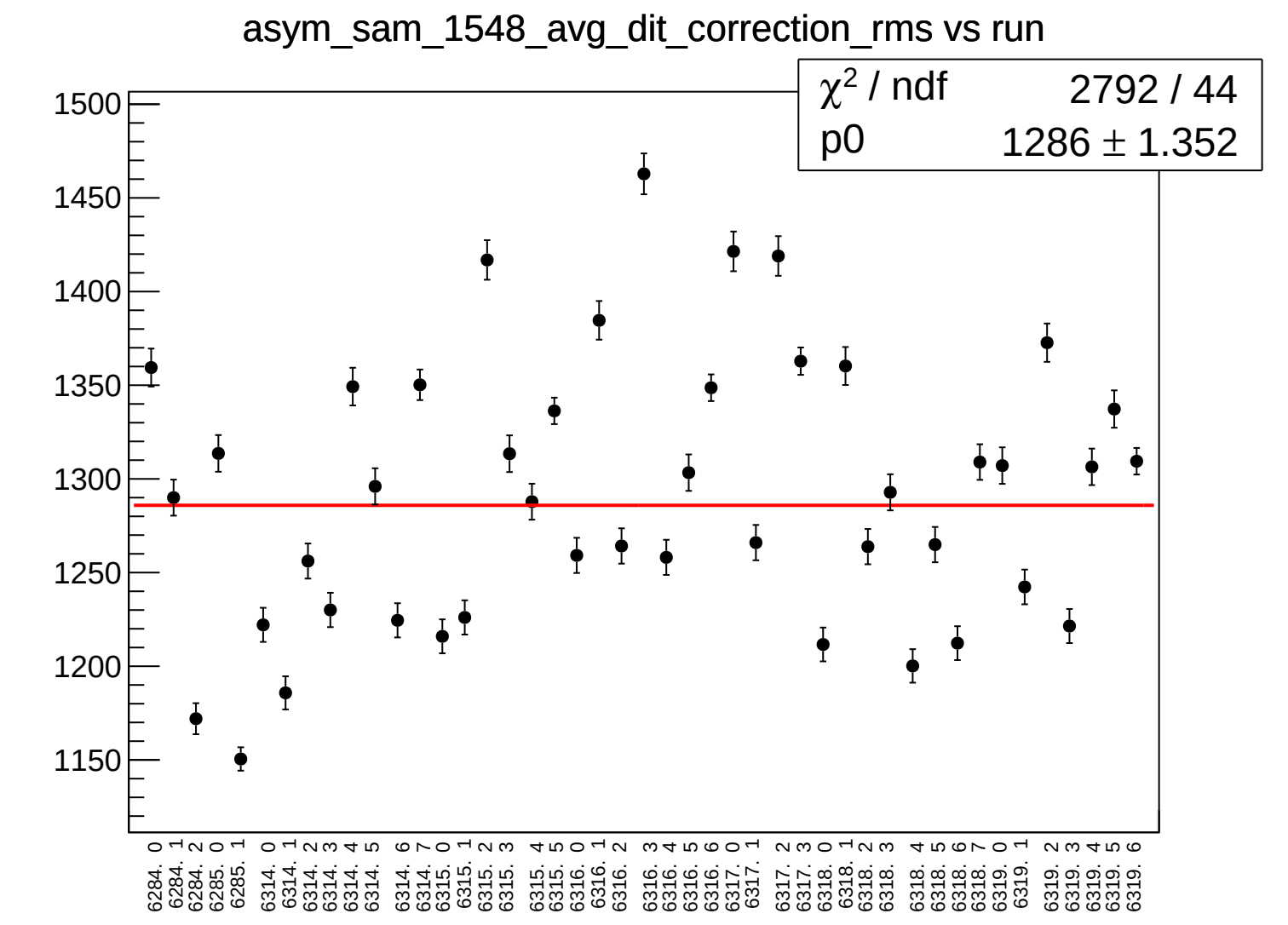

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 42.23 / 44
p0 −197.5 ± 171.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −128.7
Std Dev 0
3
2
1
0
−1
−2

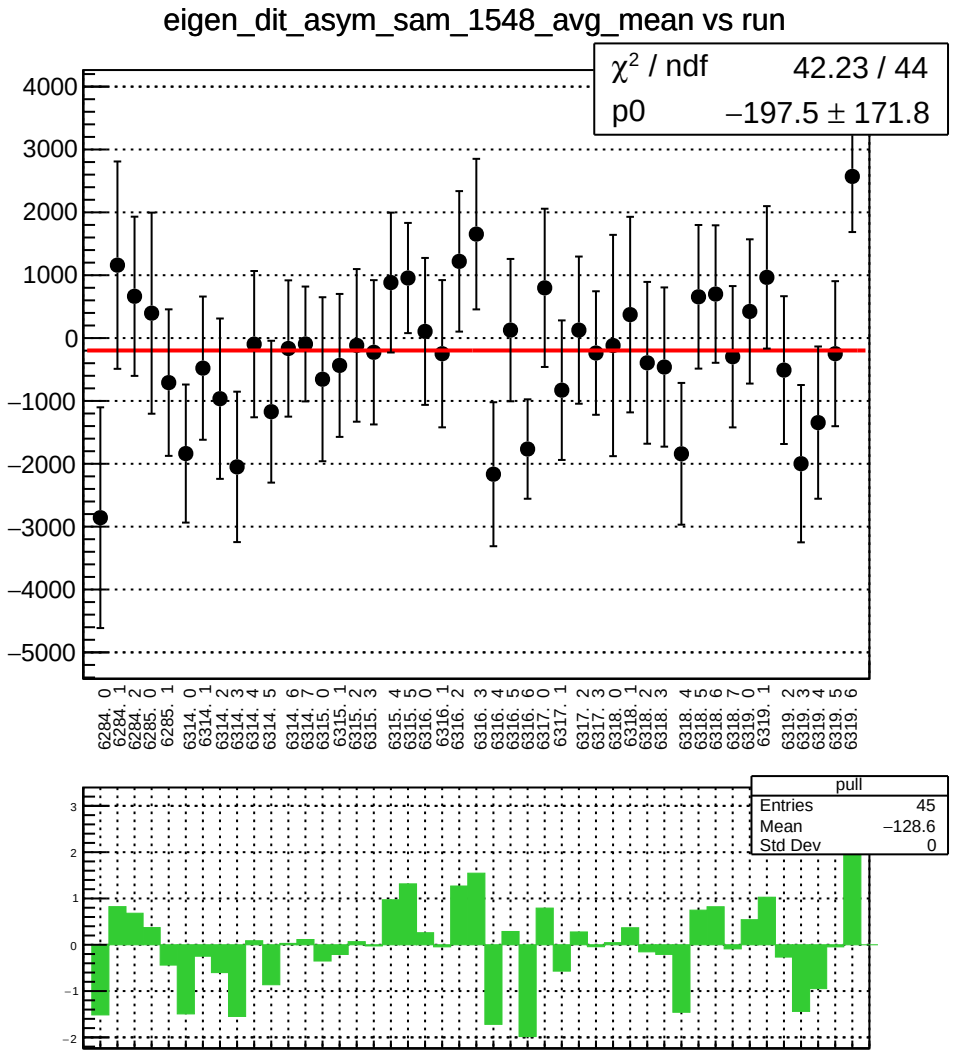

pull1D
Entries 45
Mean −0.01518
Std Dev 0.9686
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

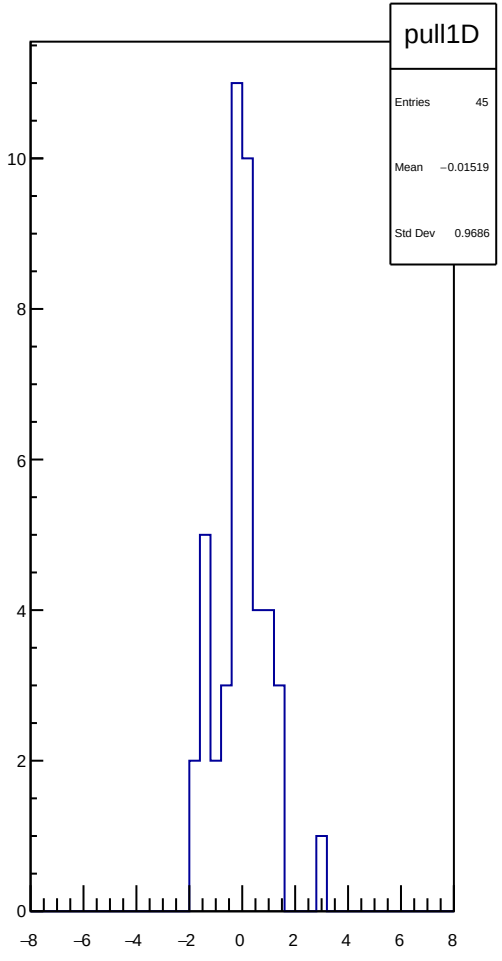

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.207e+04 / 44
p0 114.9 ± 0.1215
170
160
150
140
130
120
110
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

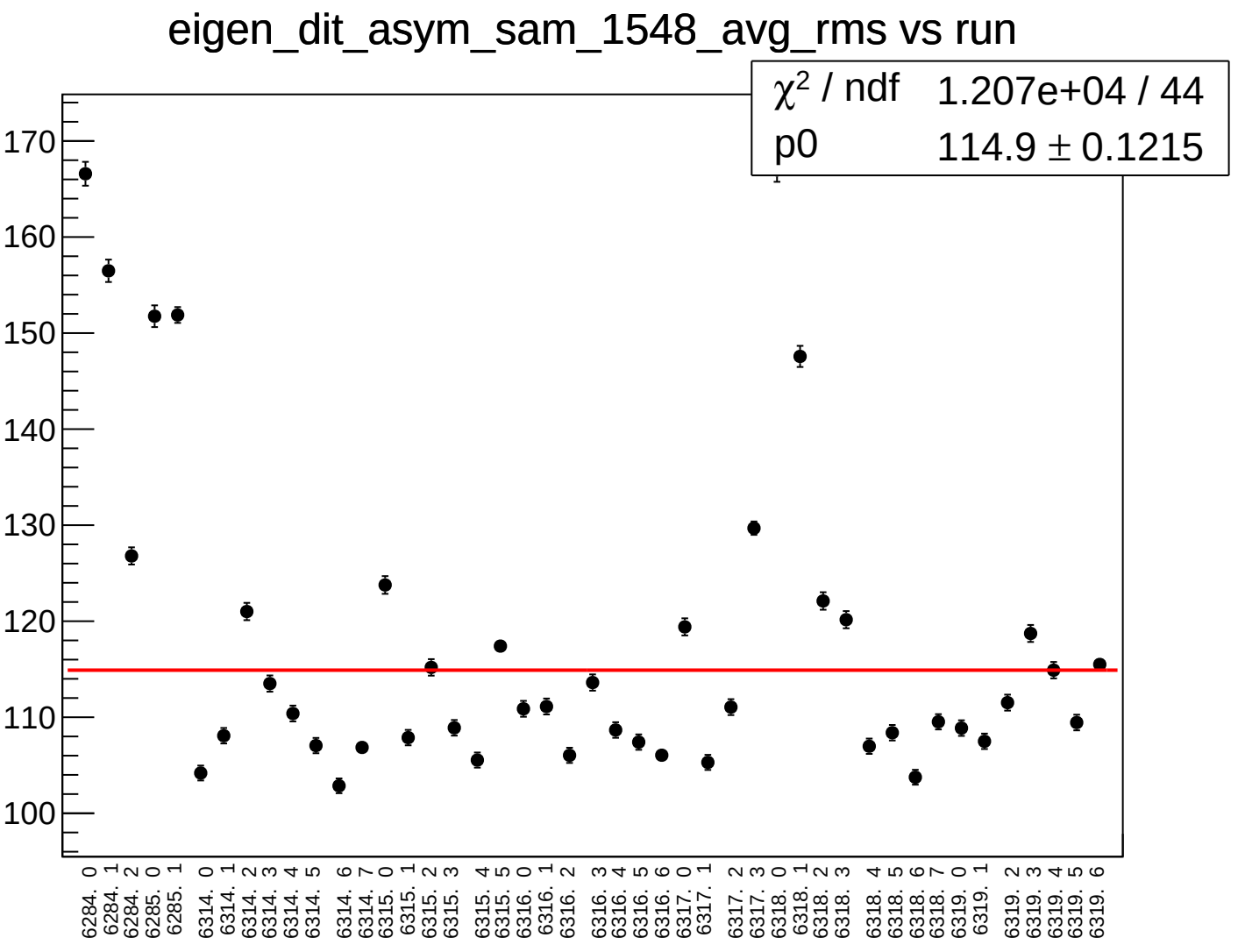

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 38.82 / 44
p0 −1142 ± 1912
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −221.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.004254
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2792 / 44
p0 1286 ± 1.352
1500
1450
1400
1350
1300
1250
1200
1150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 42.23 / 44
p0 −197.5 ± 171.8
pull
Entries 45
Mean −128.6
Std Dev 0


pull1D
Entries 45
Mean −0.01519
Std Dev 0.9686


eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.207e+04 / 44
p0 114.9 ± 0.1215
170
160
150
140
130
120
110
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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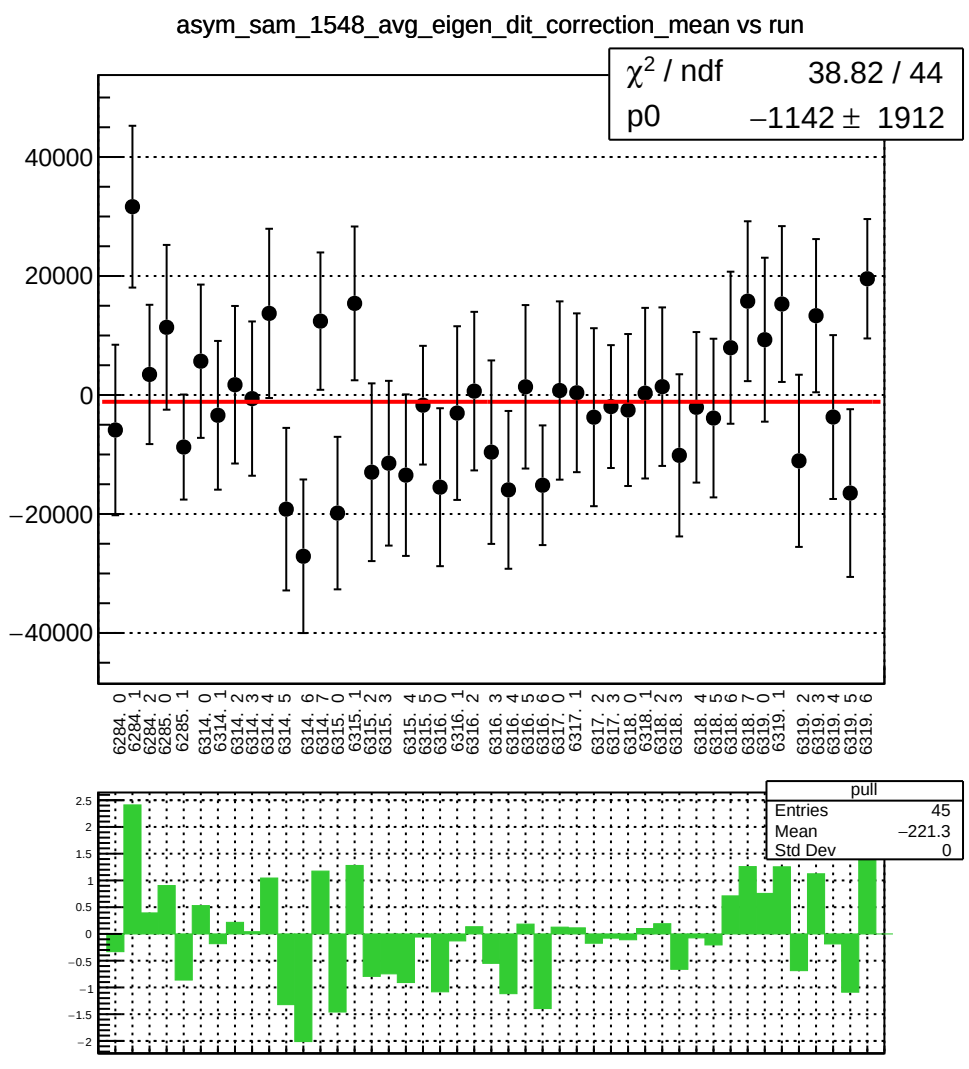
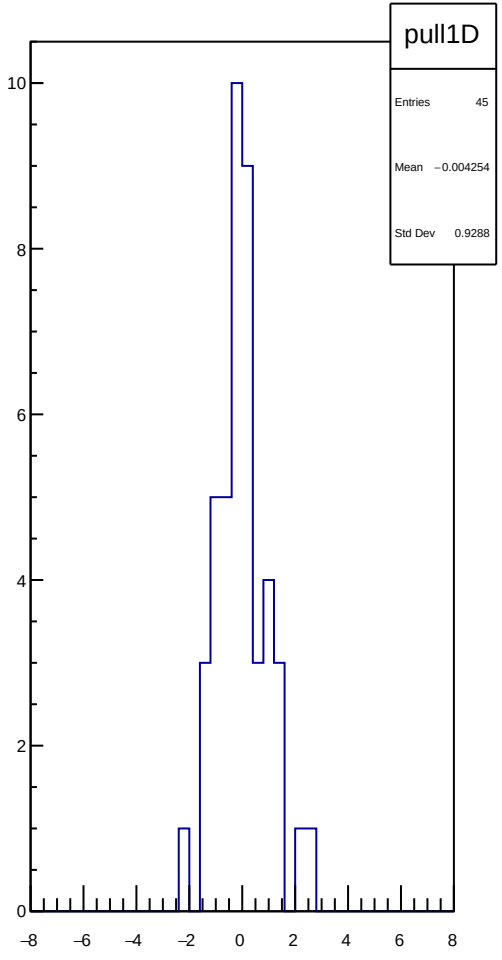
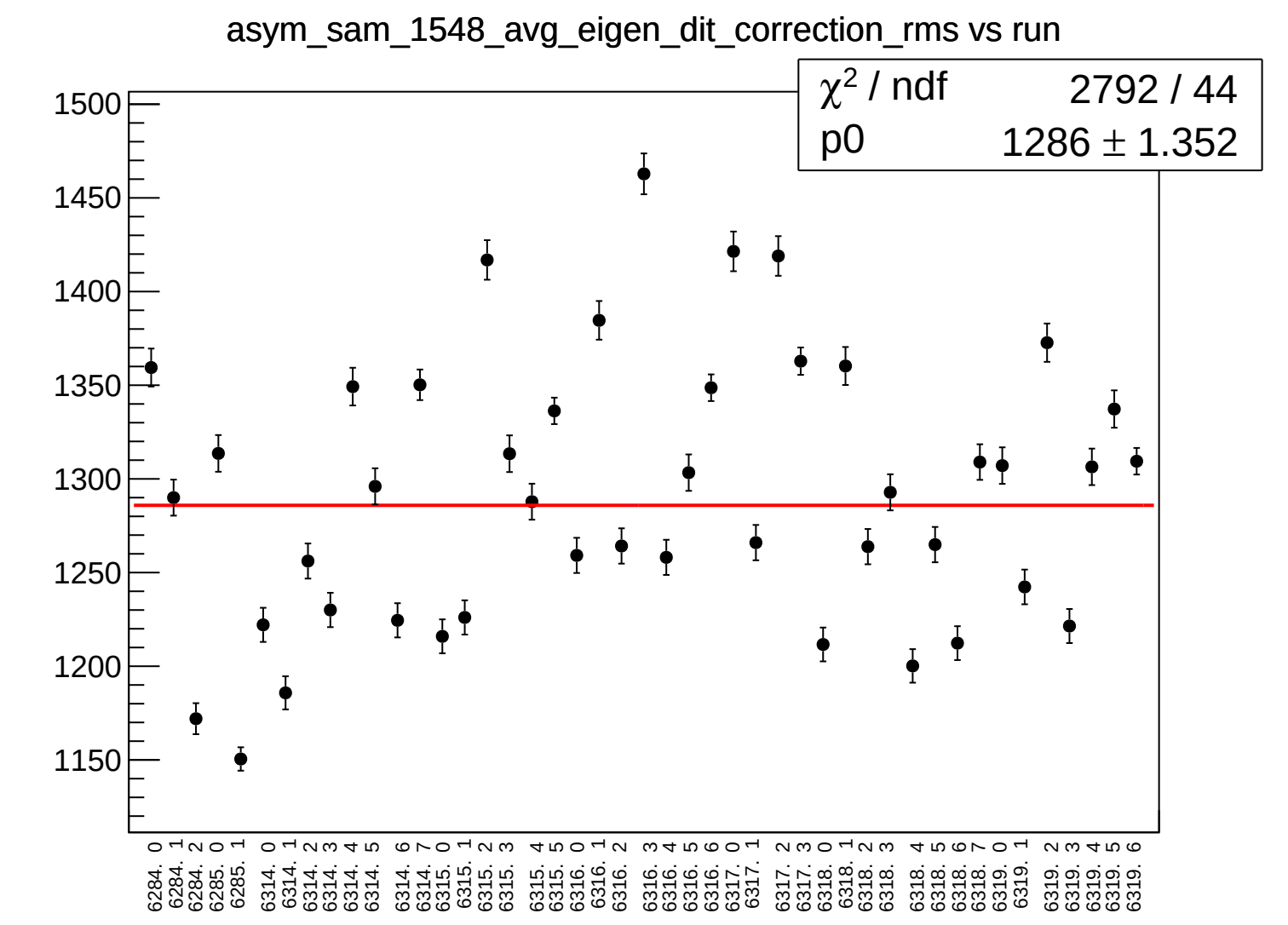
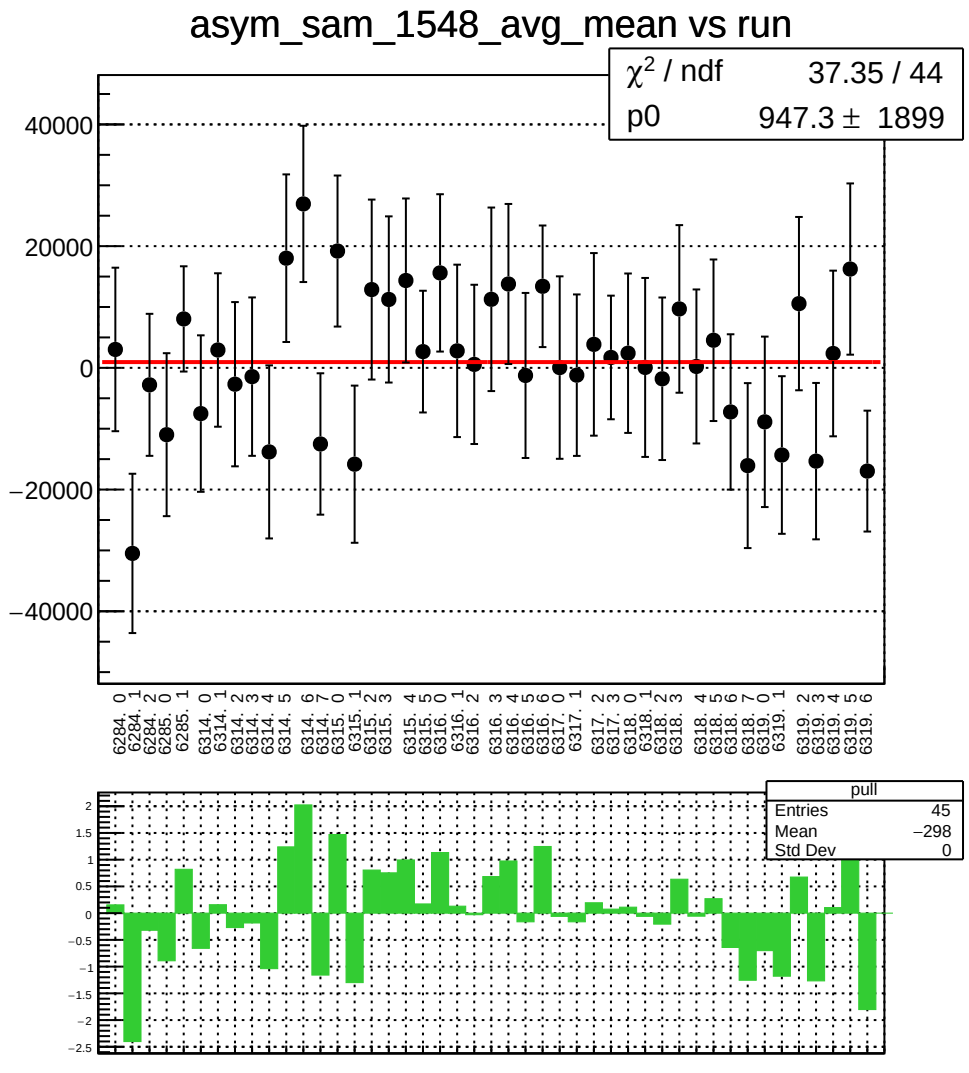
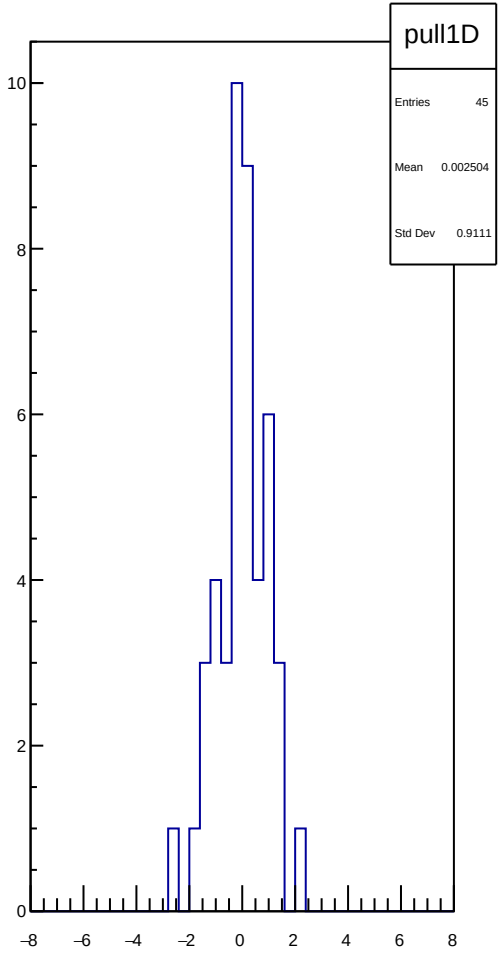
6319. 5
6319. 6

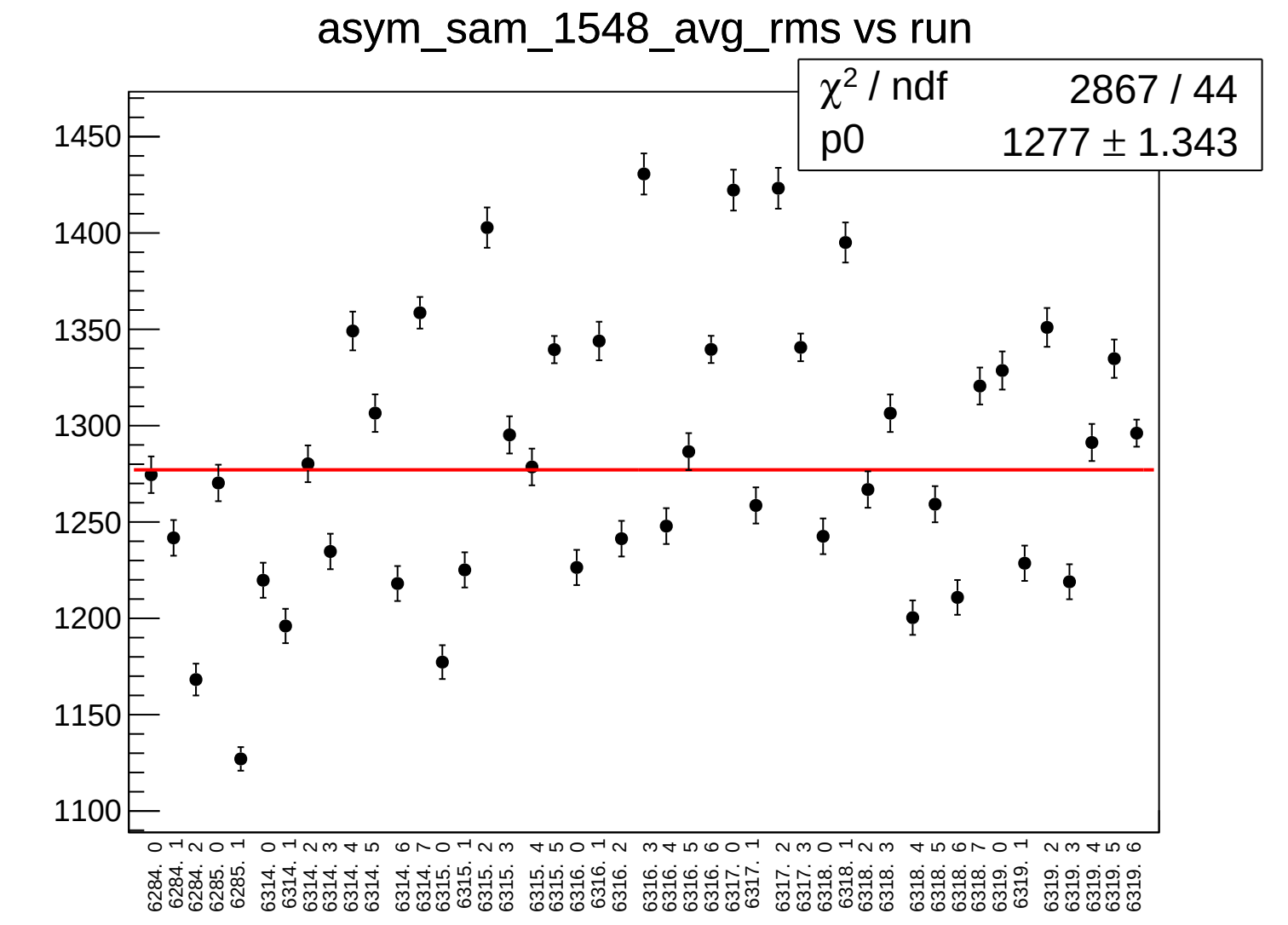

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 38.82 / 44
p0 −1142 ± 1912
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −221.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

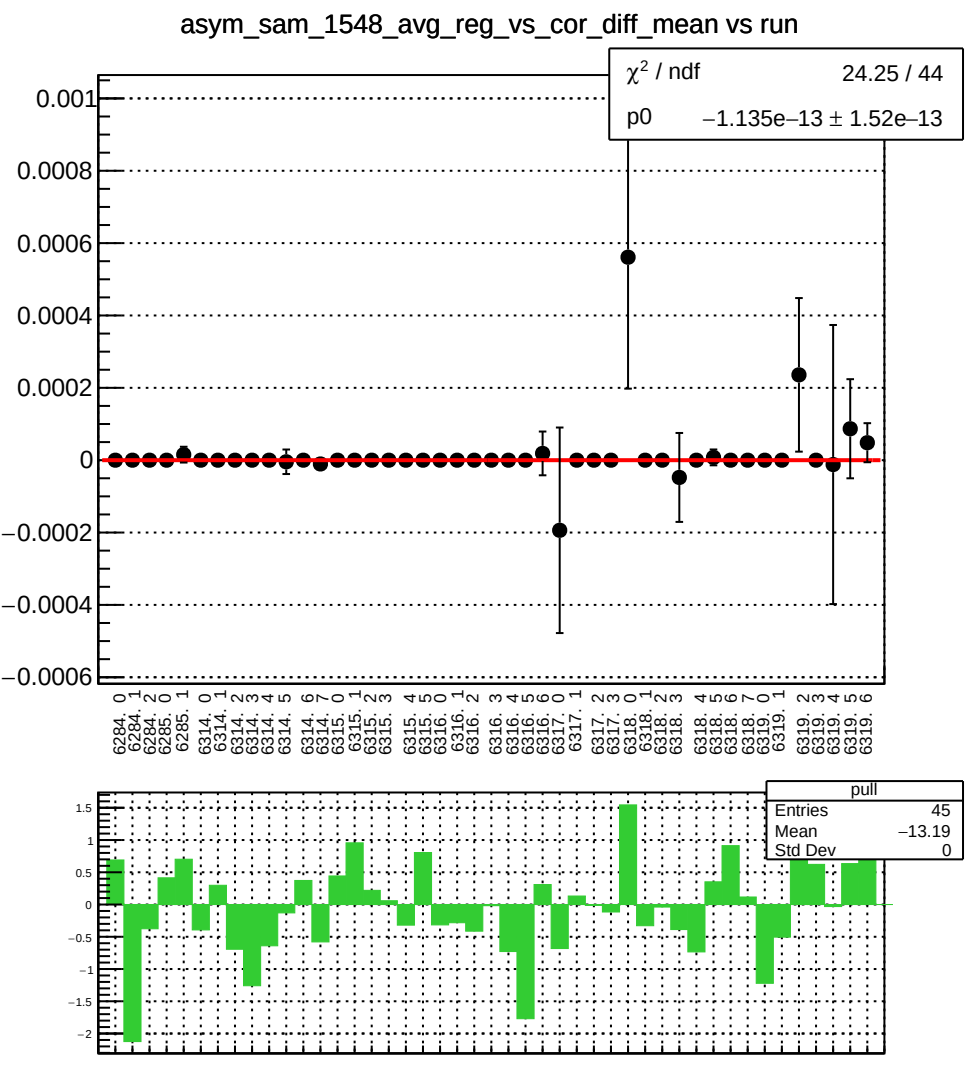

pull1D
Entries 45
Mean −0.004254
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

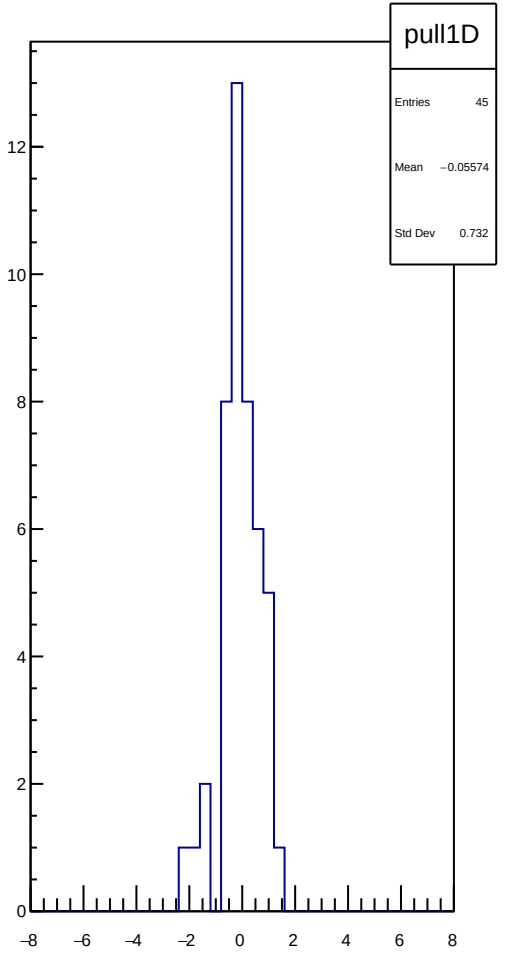

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2792 / 44
p0 1286 ± 1.352
1500
1450
1400
1350
1300
1250
1200
1150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

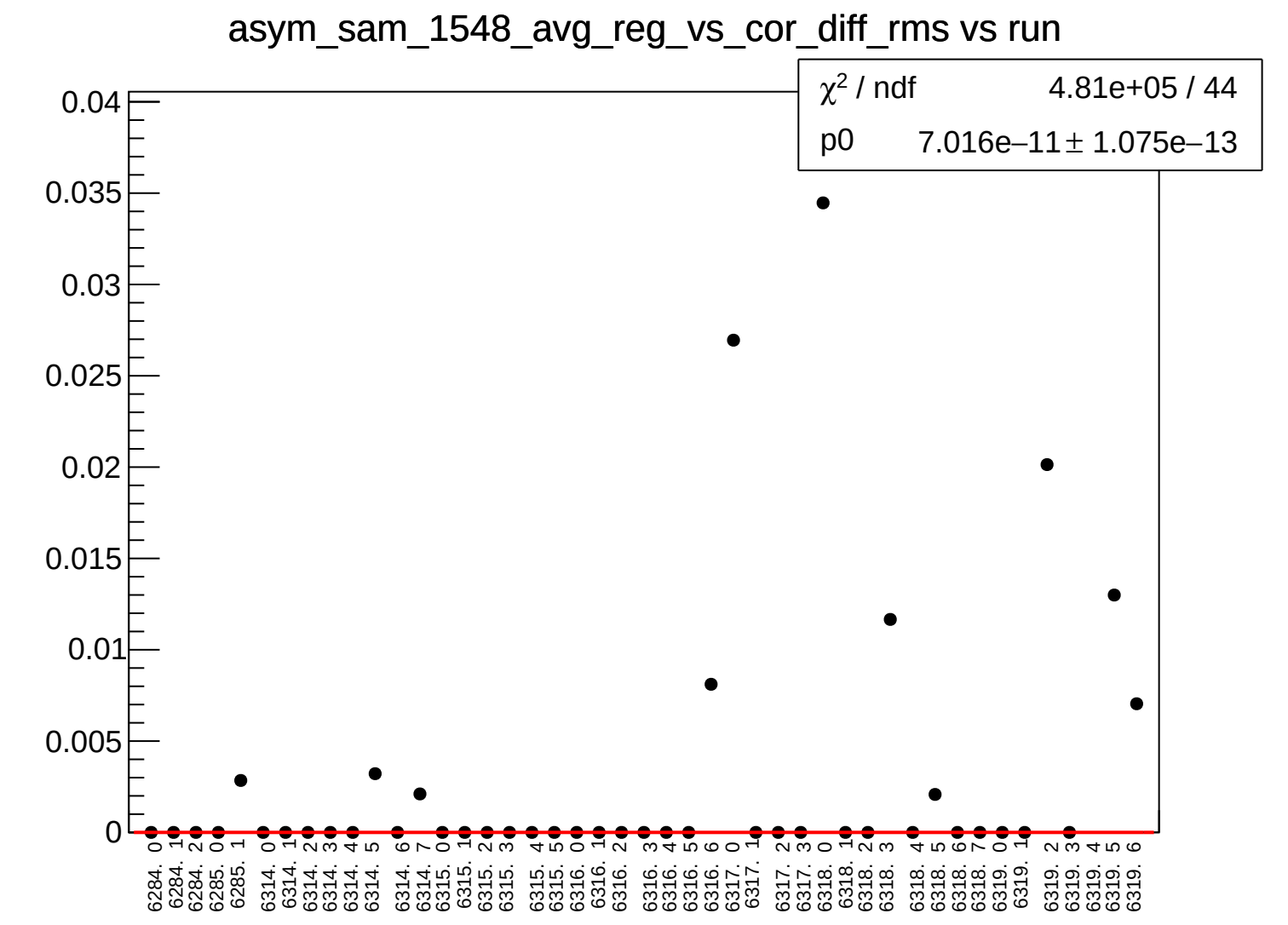

asym_sam_1548_avg_mean vs run
χ² / ndf 37.35 / 44
p0 947.3 ± 1899
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −298
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

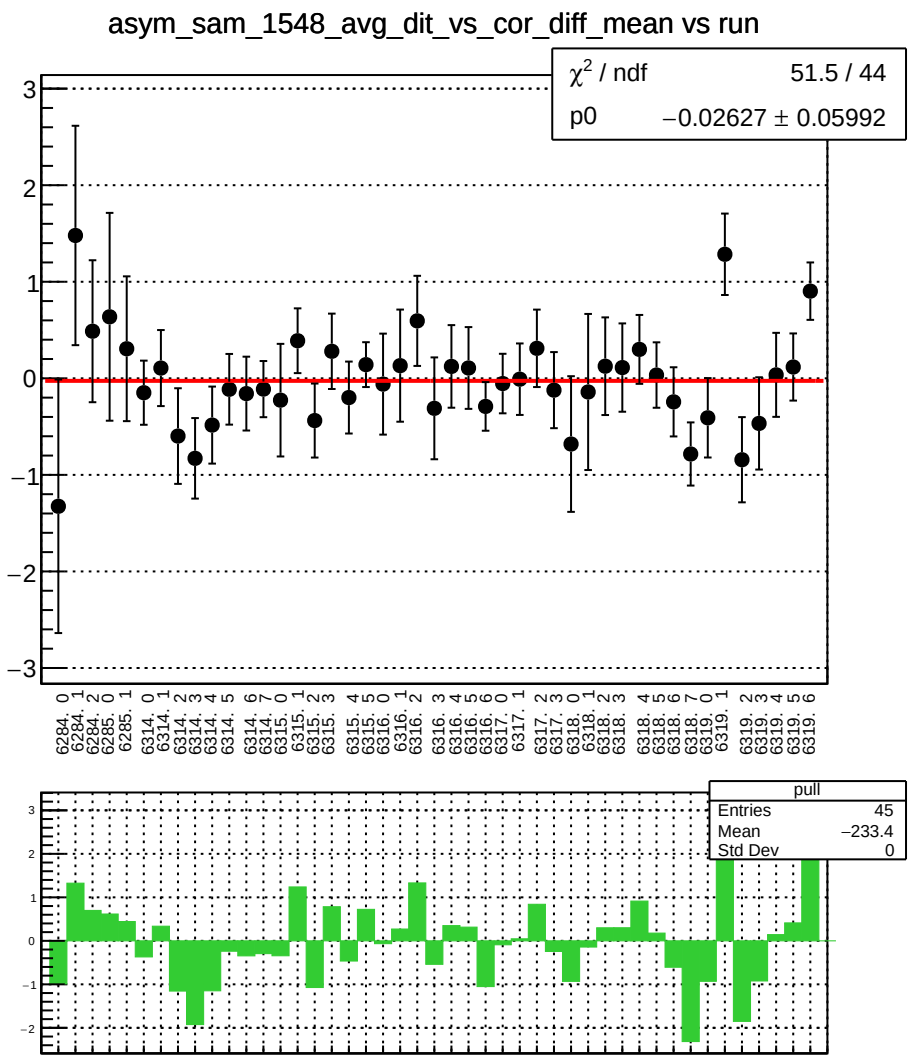

pull1D
Entries 45
Mean 0.002504
Std Dev 0.9111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

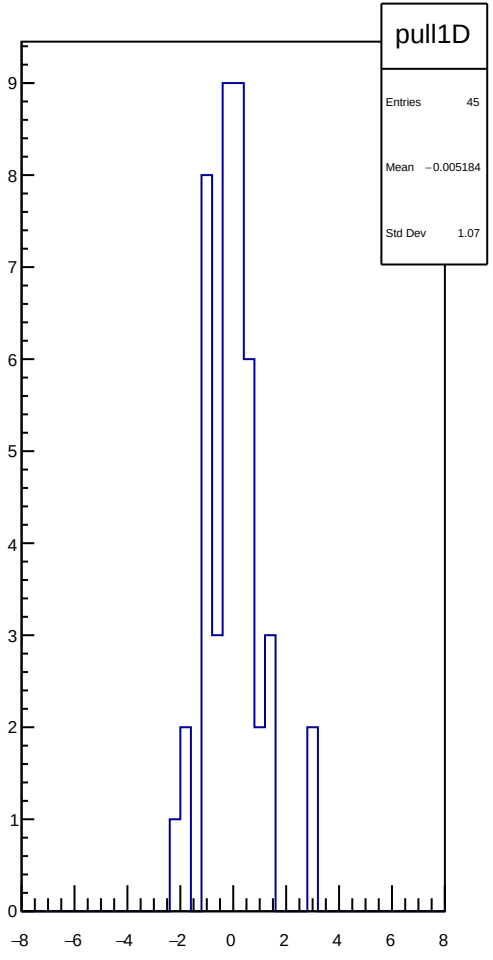

asym_sam_1548_avg_rms vs run
χ² / ndf 2867 / 44
p0 1277 ± 1.343
1450
1400
1350
1300
1250
1200
1150
1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

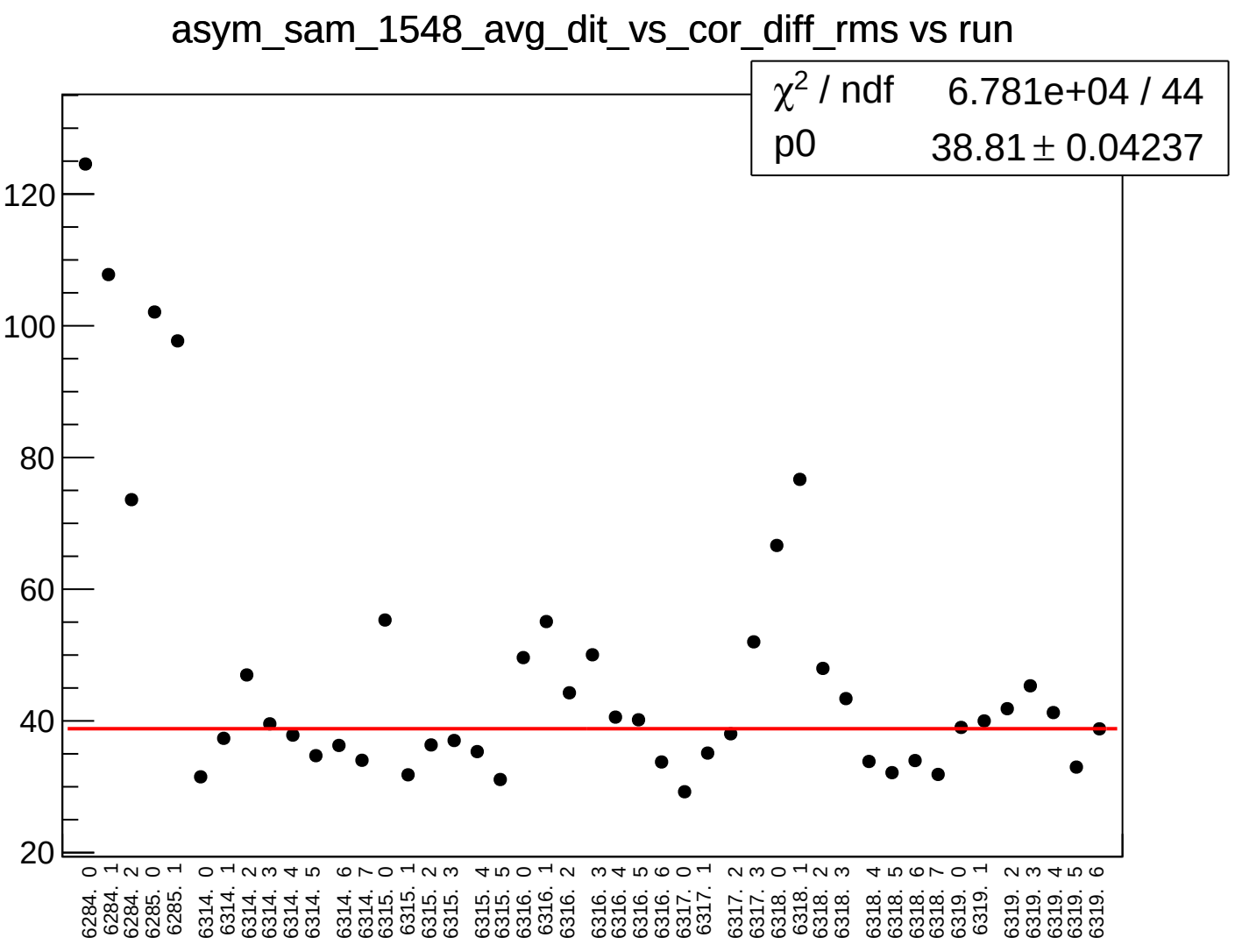

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.25 / 44
p0 −1.135e−13 ± 1.52e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −13.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

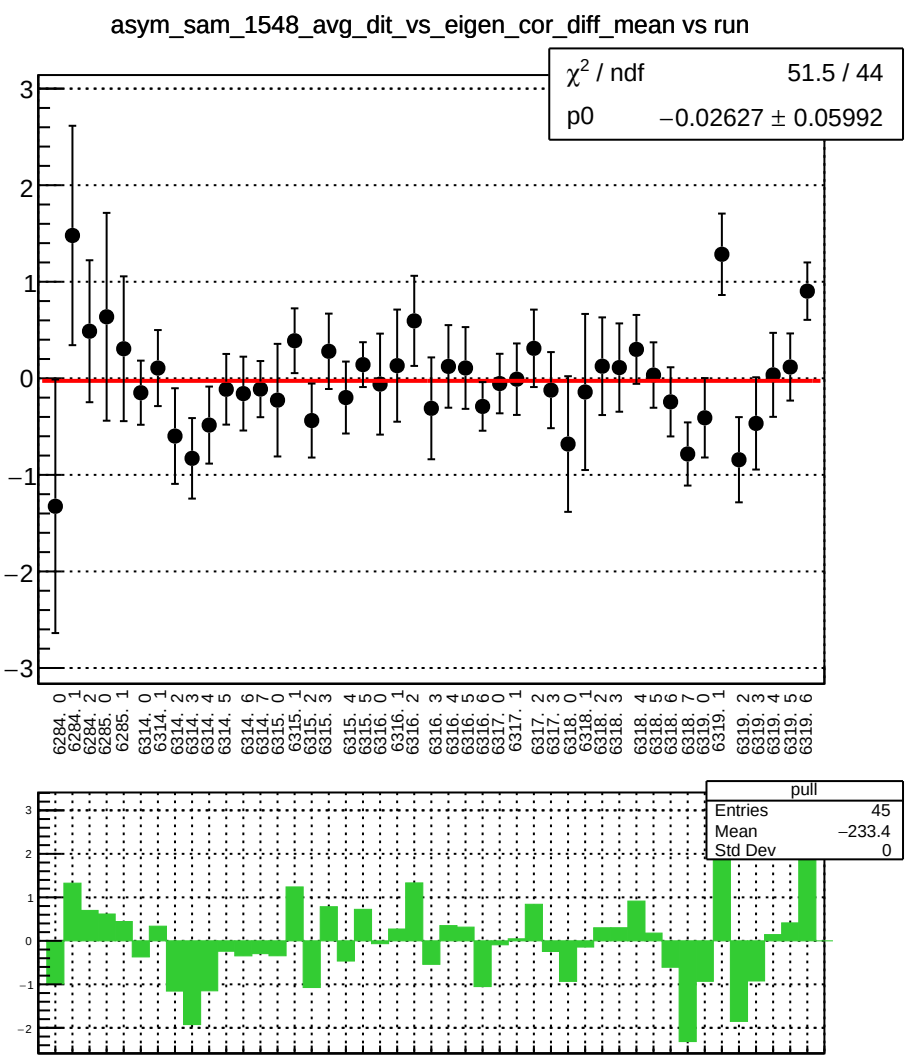

pull1D
Entries 45
Mean −0.05574
Std Dev 0.732
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

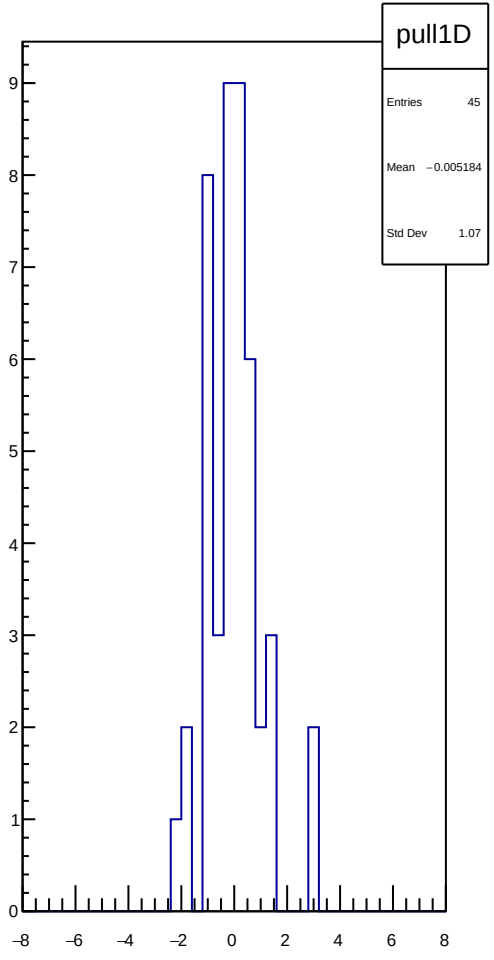

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.81e+05 / 44
p0 7.016e−11 ± 1.075e−13
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

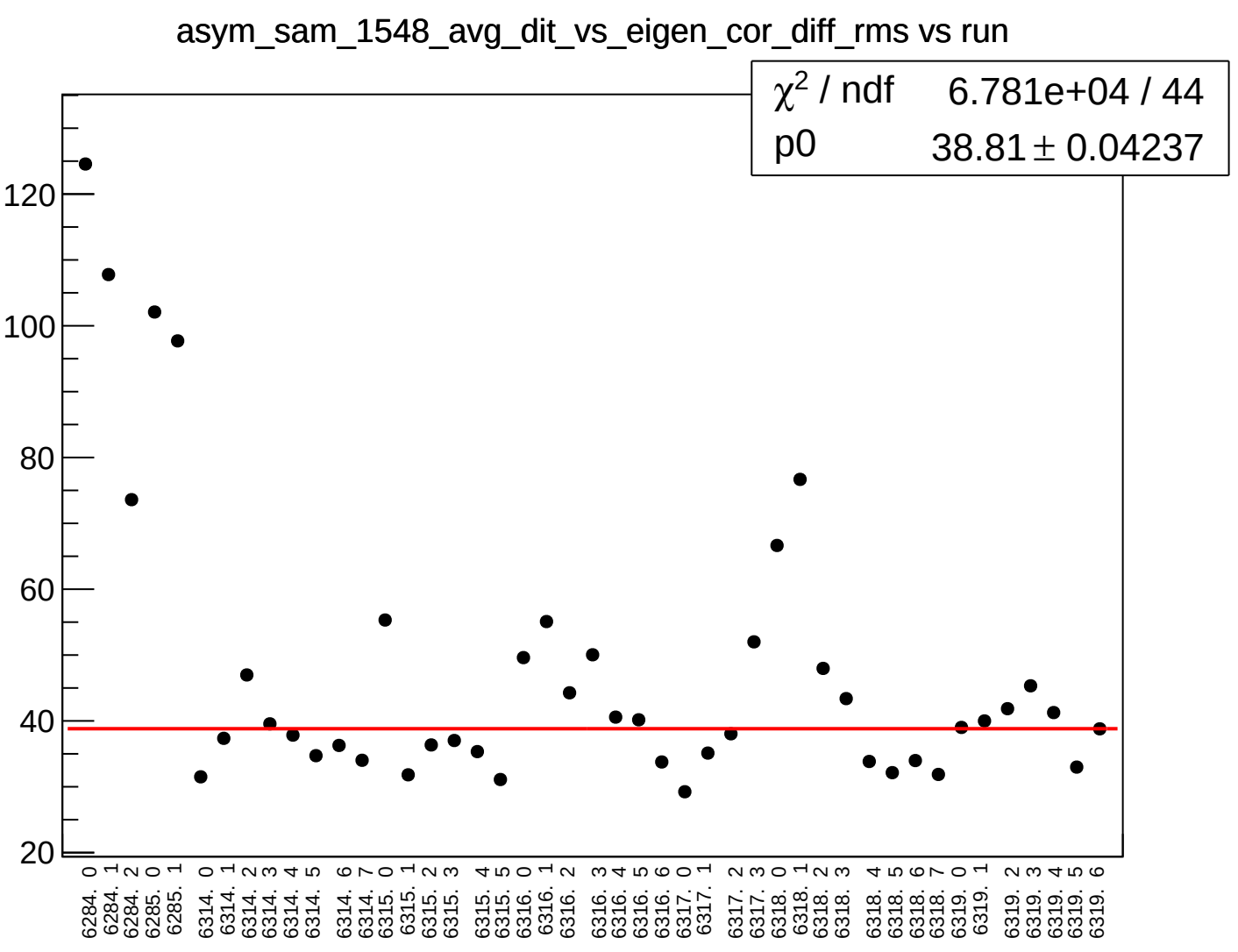

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.5 / 44
p0 −0.02627 ± 0.05992
pull
Entries 45
Mean −233.4
Std Dev 0

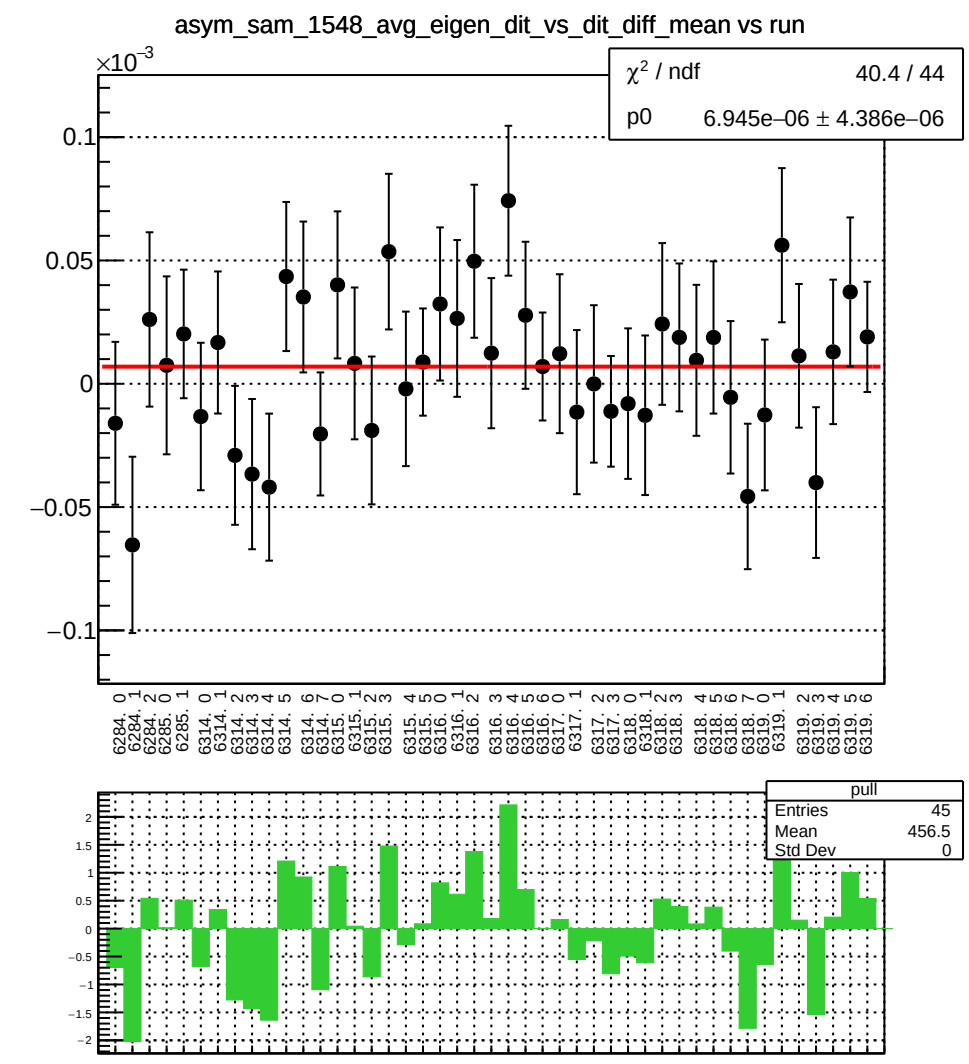

pull1D
Entries 45
Mean −0.005184
Std Dev 1.07

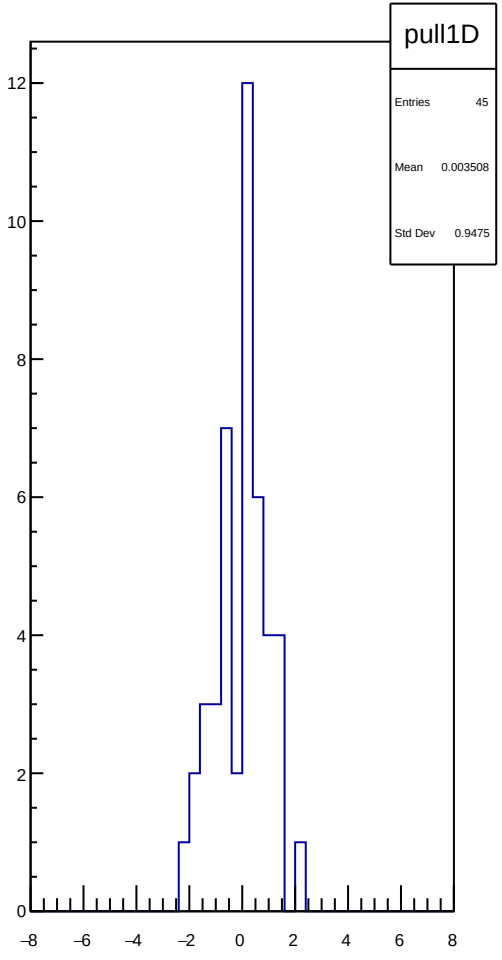

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.781e+04 / 44
p0 38.81 ± 0.04237
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

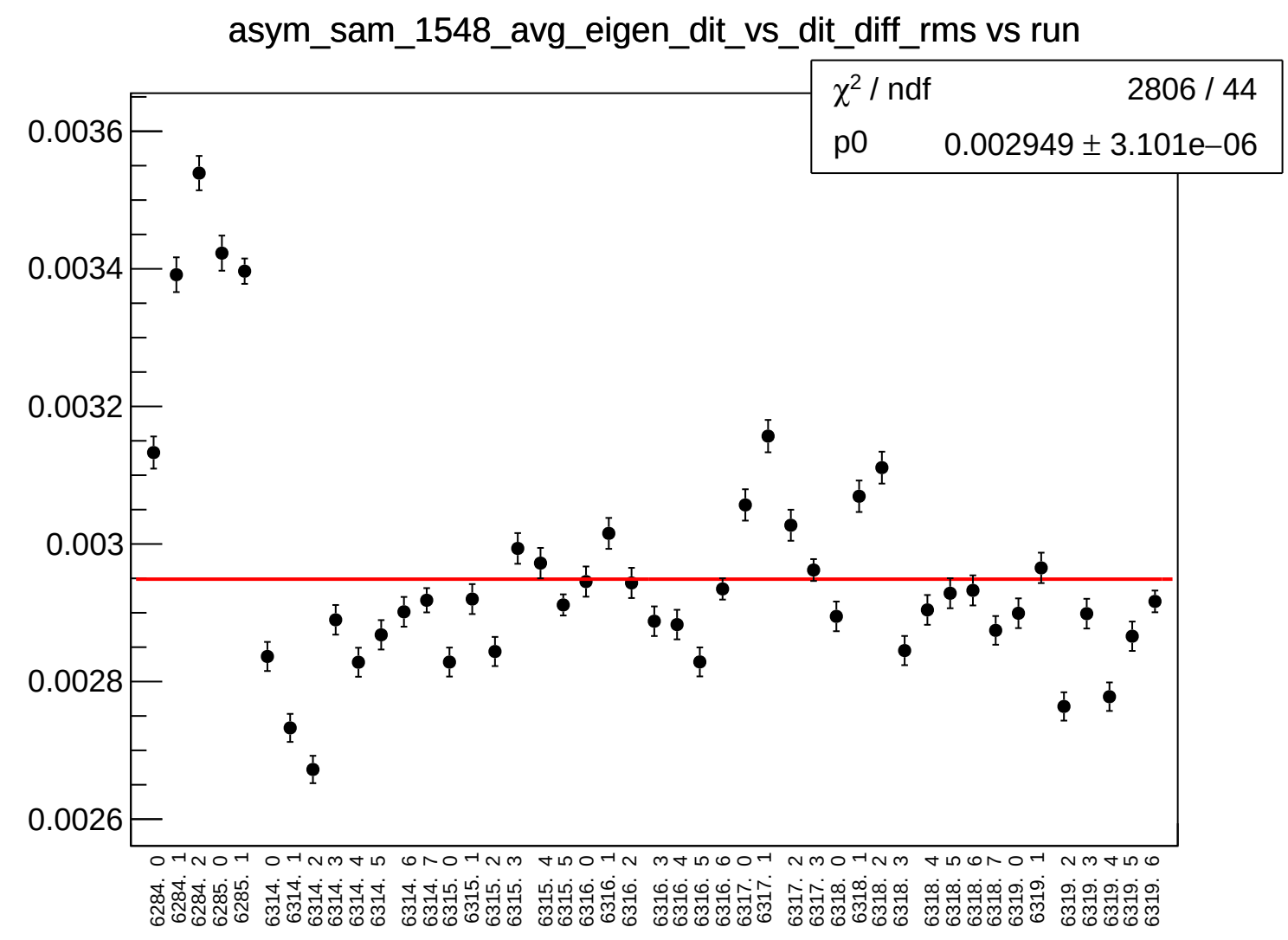

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.5 / 44
p0 −0.02627 ± 0.05992
pull
Entries 45
Mean −233.4
Std Dev 0

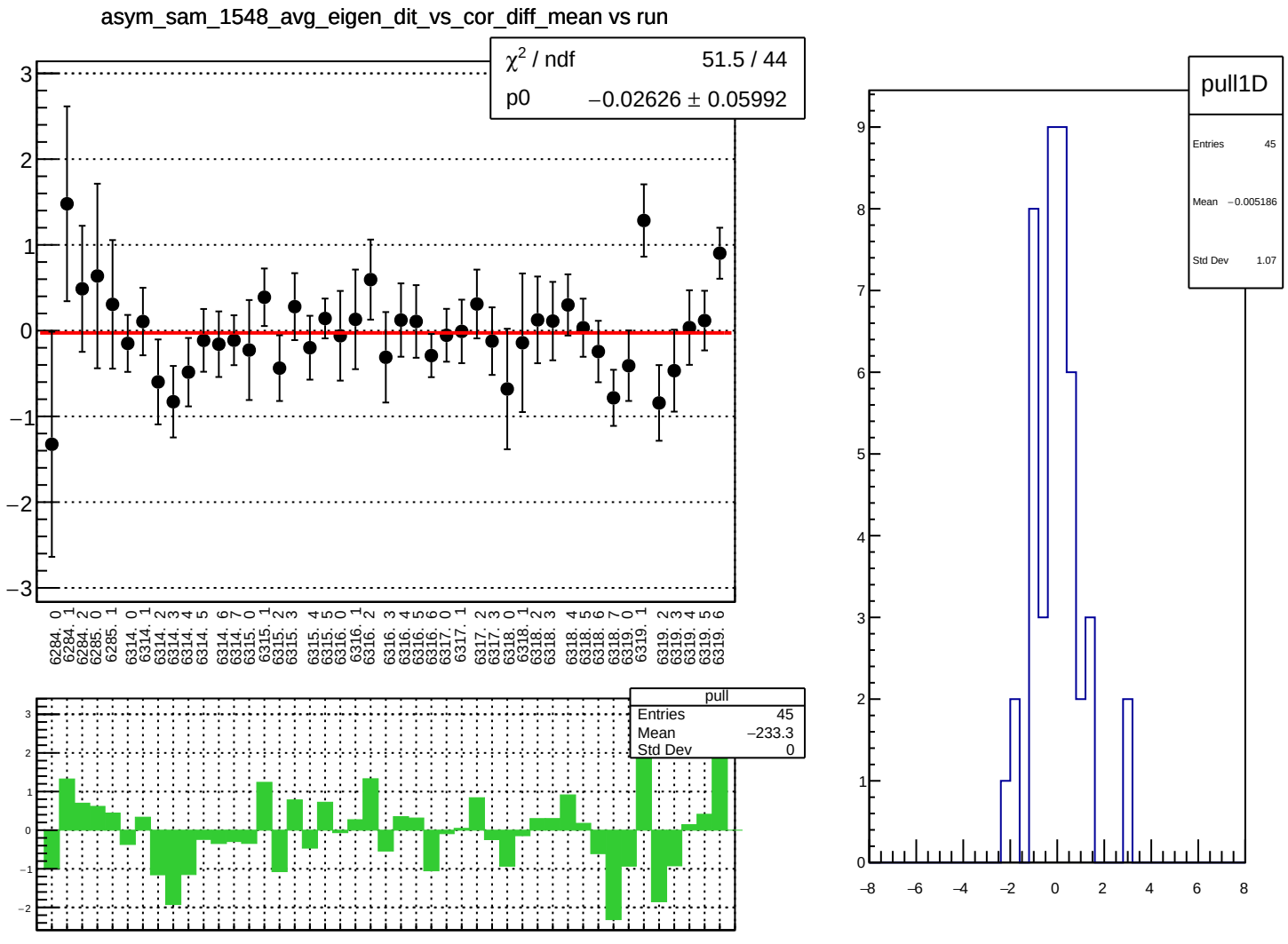

pull1D
Entries 45
Mean −0.005184
Std Dev 1.07

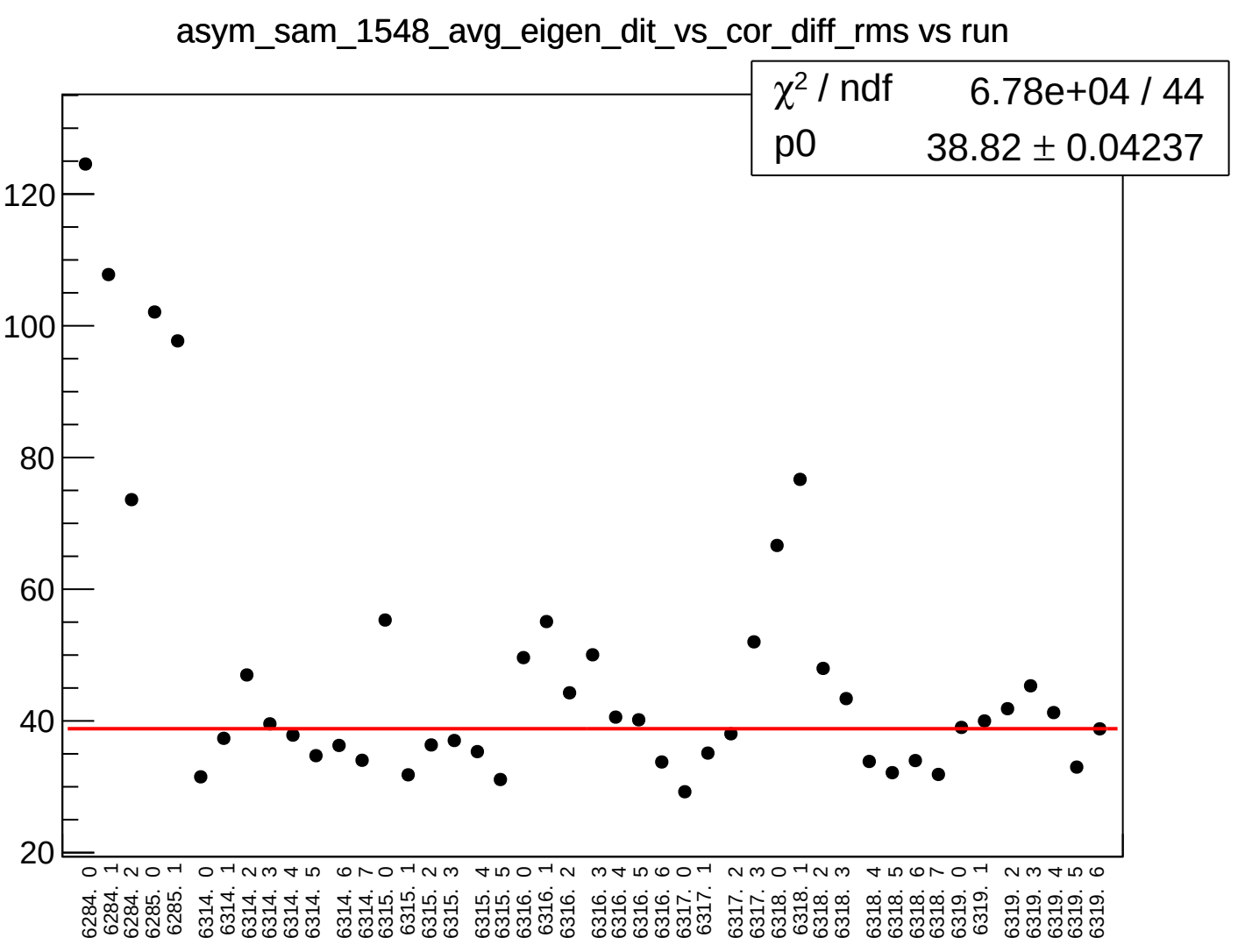

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.781e+04 / 44
p0 38.81 ± 0.04237
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.4 / 44
p0 6.945e−06 ± 4.386e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 456.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

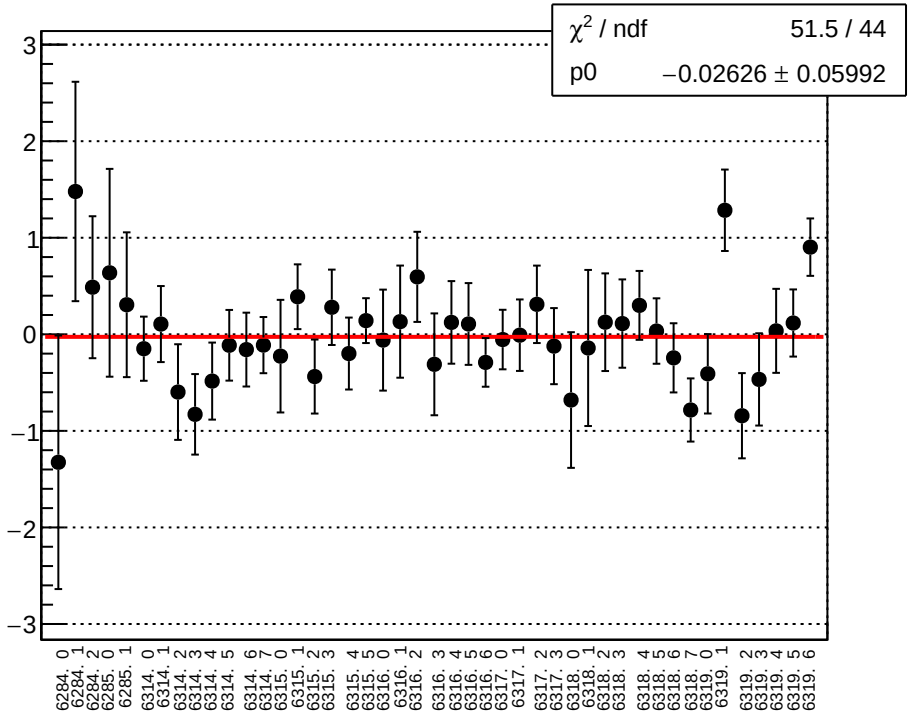

pull1D
Entries 45
Mean 0.003508
Std Dev 0.9475
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

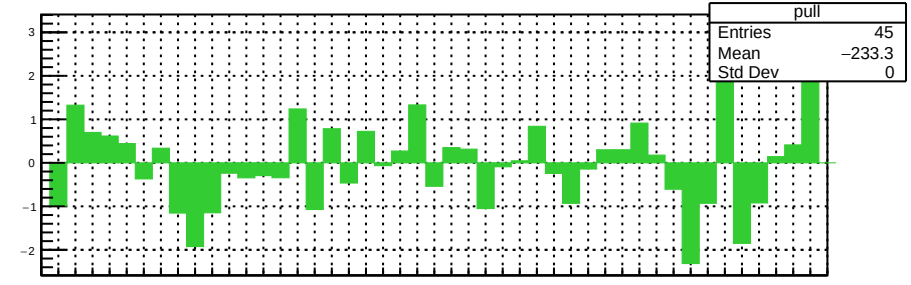

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2806 / 44
p0 0.002949 ± 3.101e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

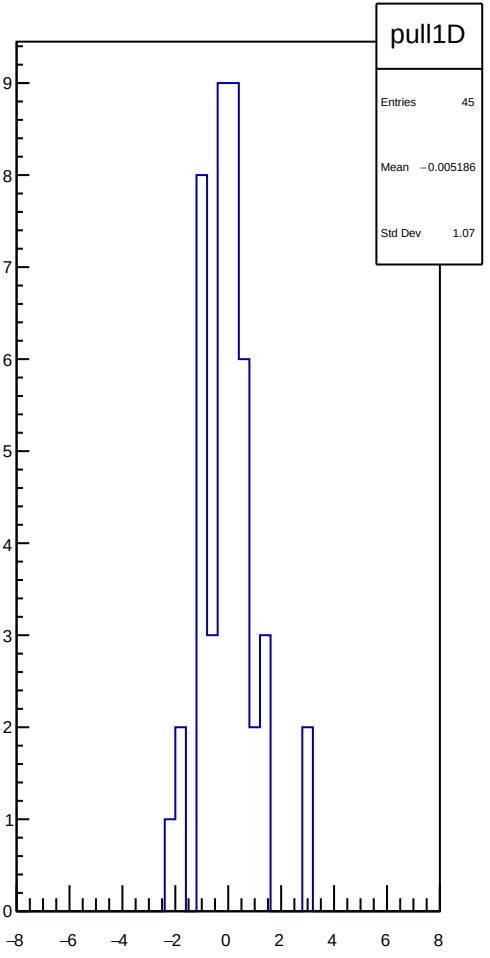

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.5 / 44
p0 −0.02626 ± 0.05992
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −233.3
Std Dev 0
pull1D
Entries 45
Mean −0.005186
Std Dev 1.07

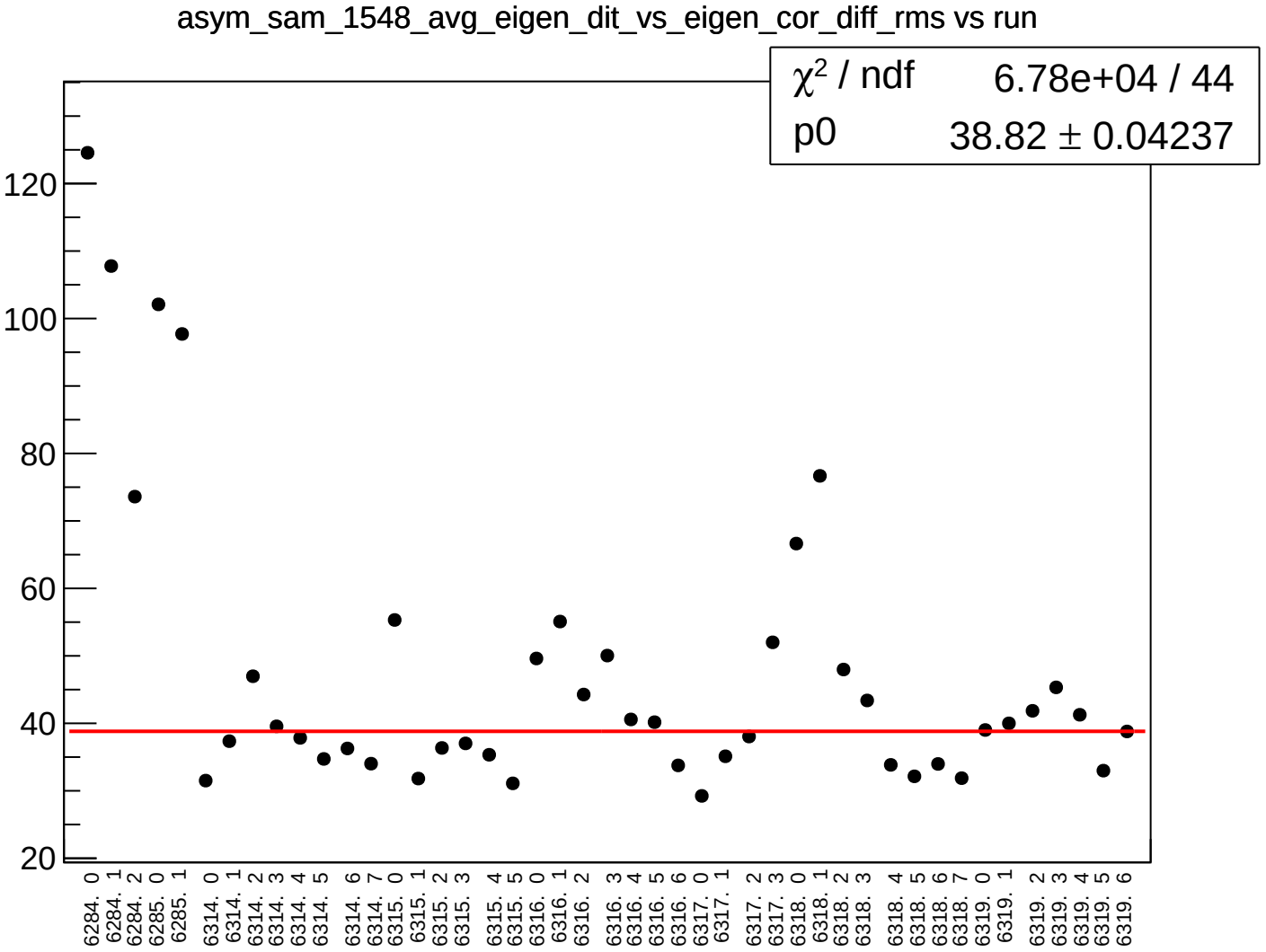

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.78e+04 / 44
p0 38.82 ± 0.04237
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

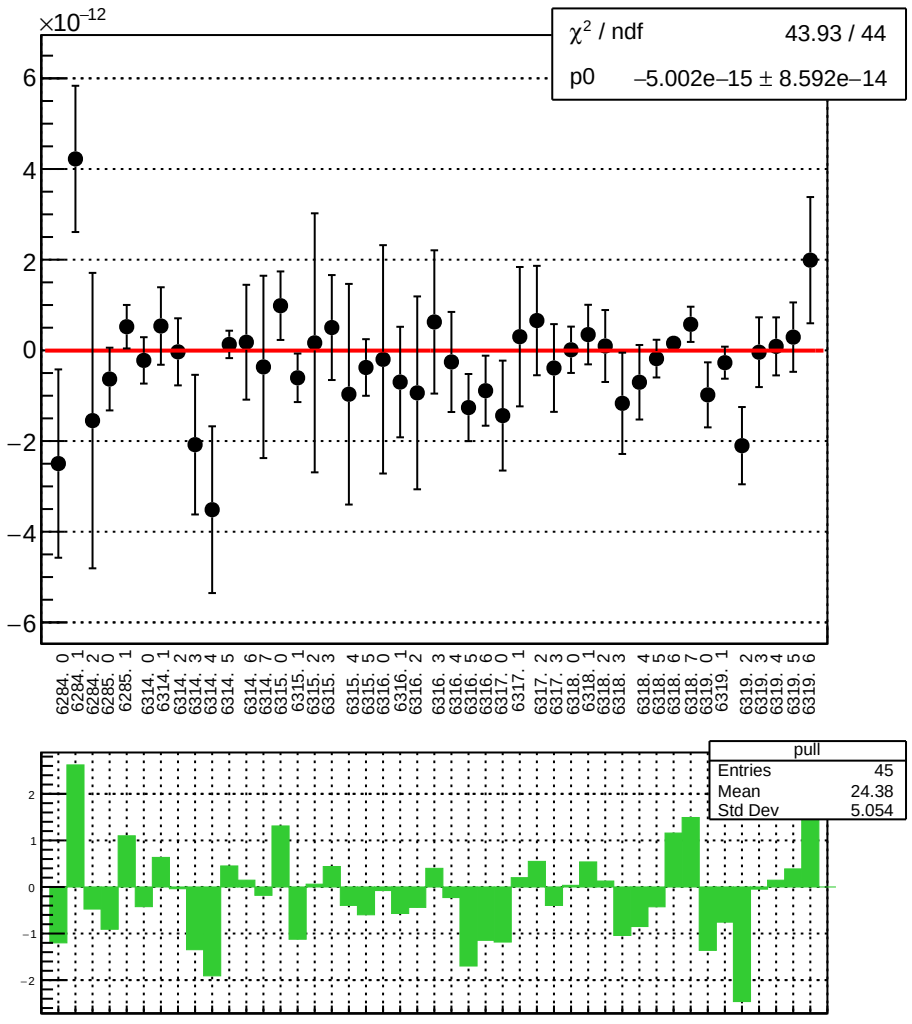
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

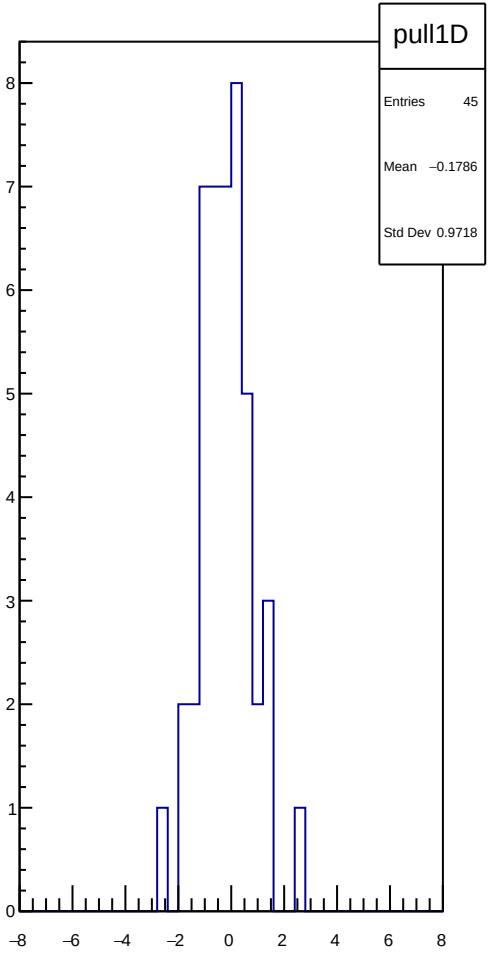


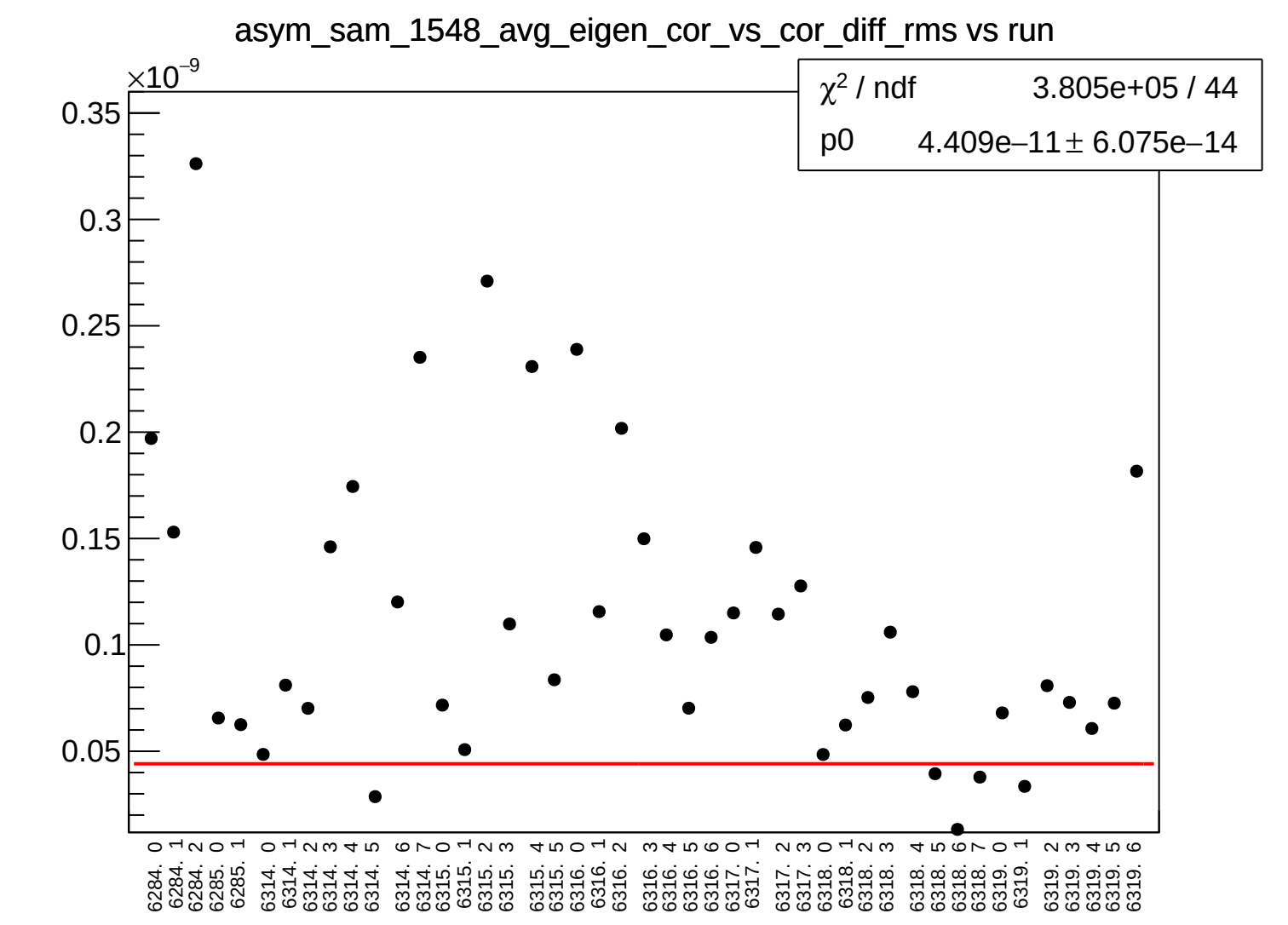


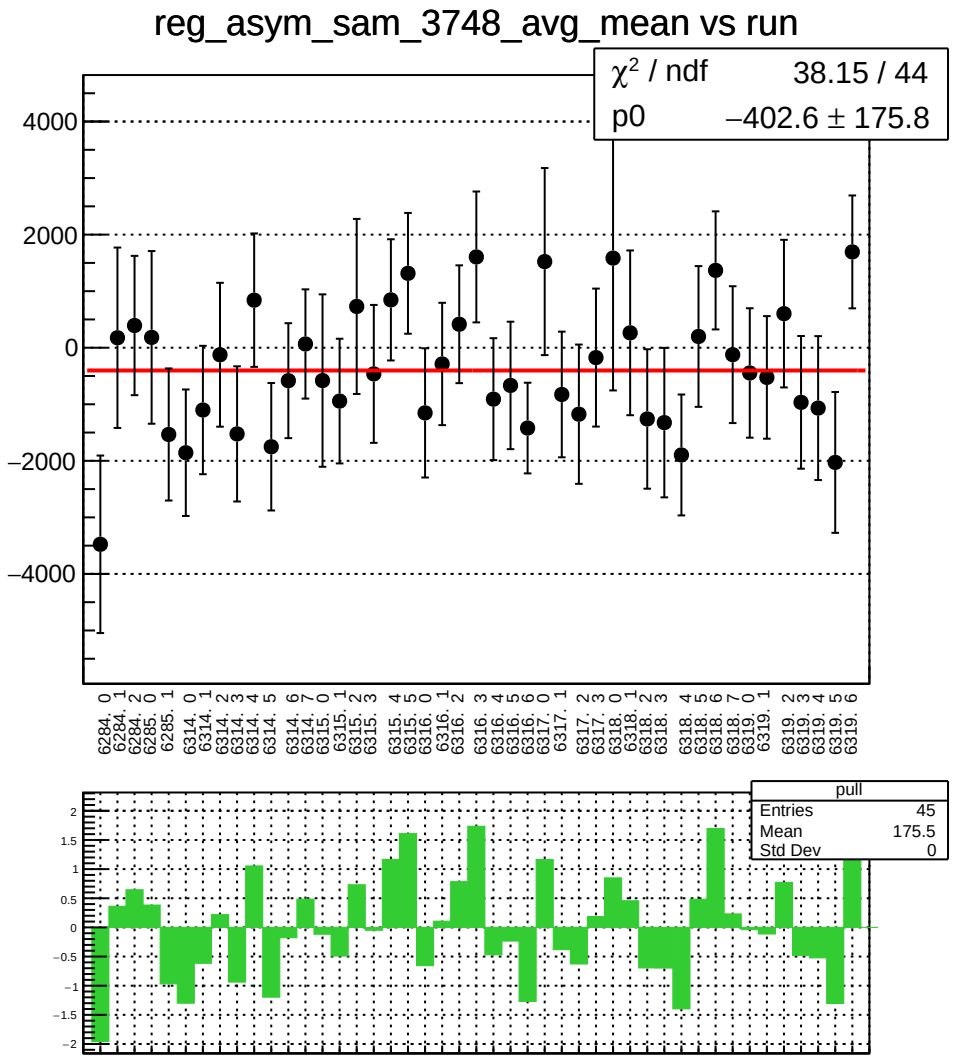


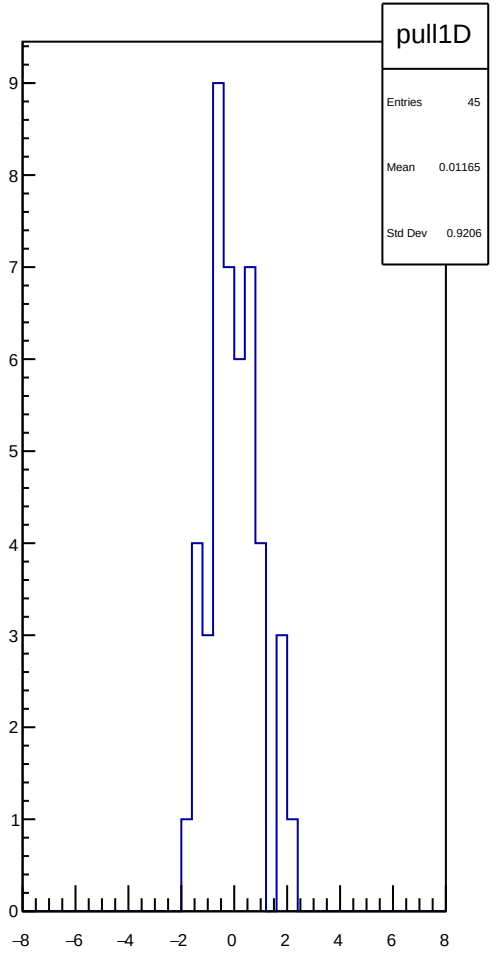

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.78e+04 / 44
p0 38.82 ± 0.04237
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

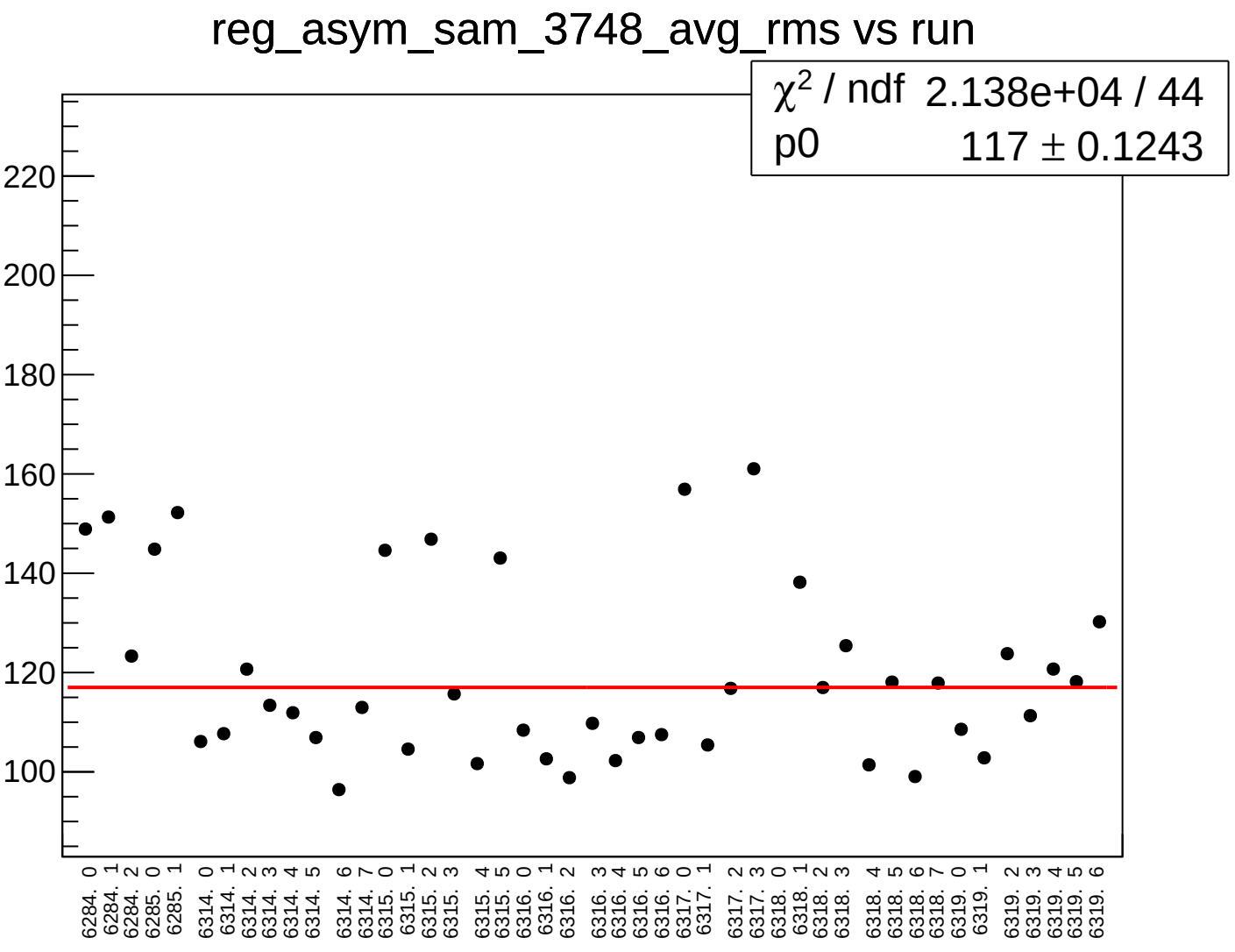

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.93 / 44
p0 −5.002e−15 ± 8.592e−14
pull
Entries 45
Mean 24.38
Std Dev 5.054

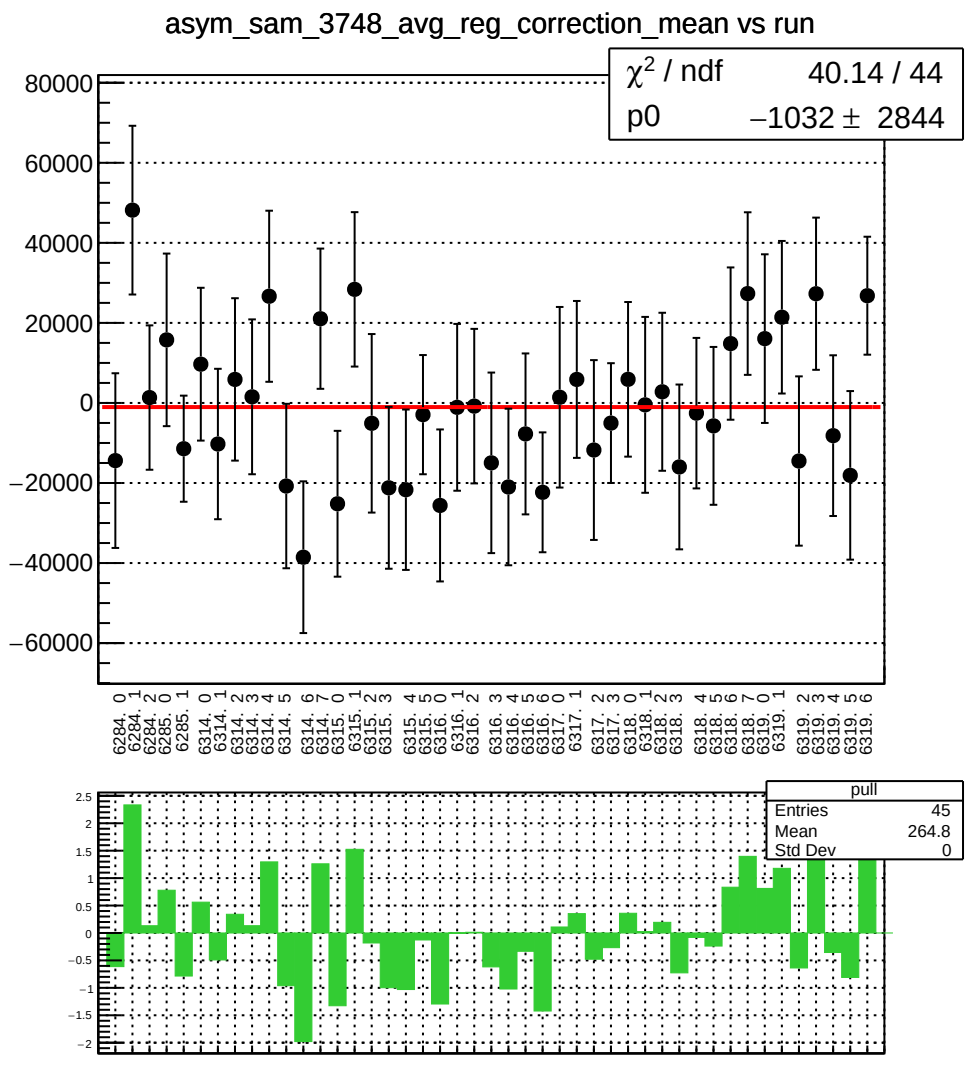

pull1D
Entries 45
Mean −0.1786
Std Dev 0.9718

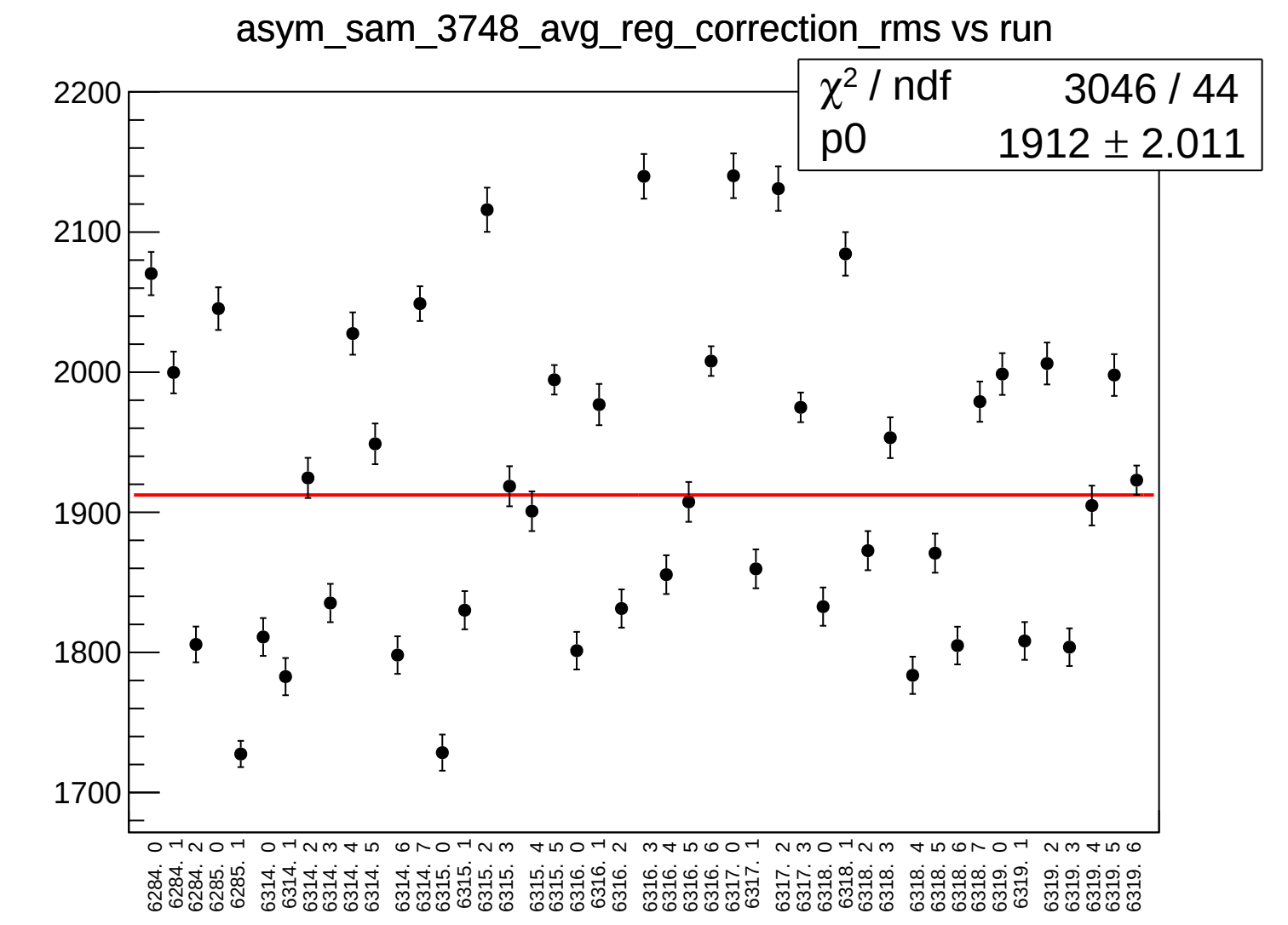

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.805e+05 / 44
p0 4.409e−11 ± 6.075e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

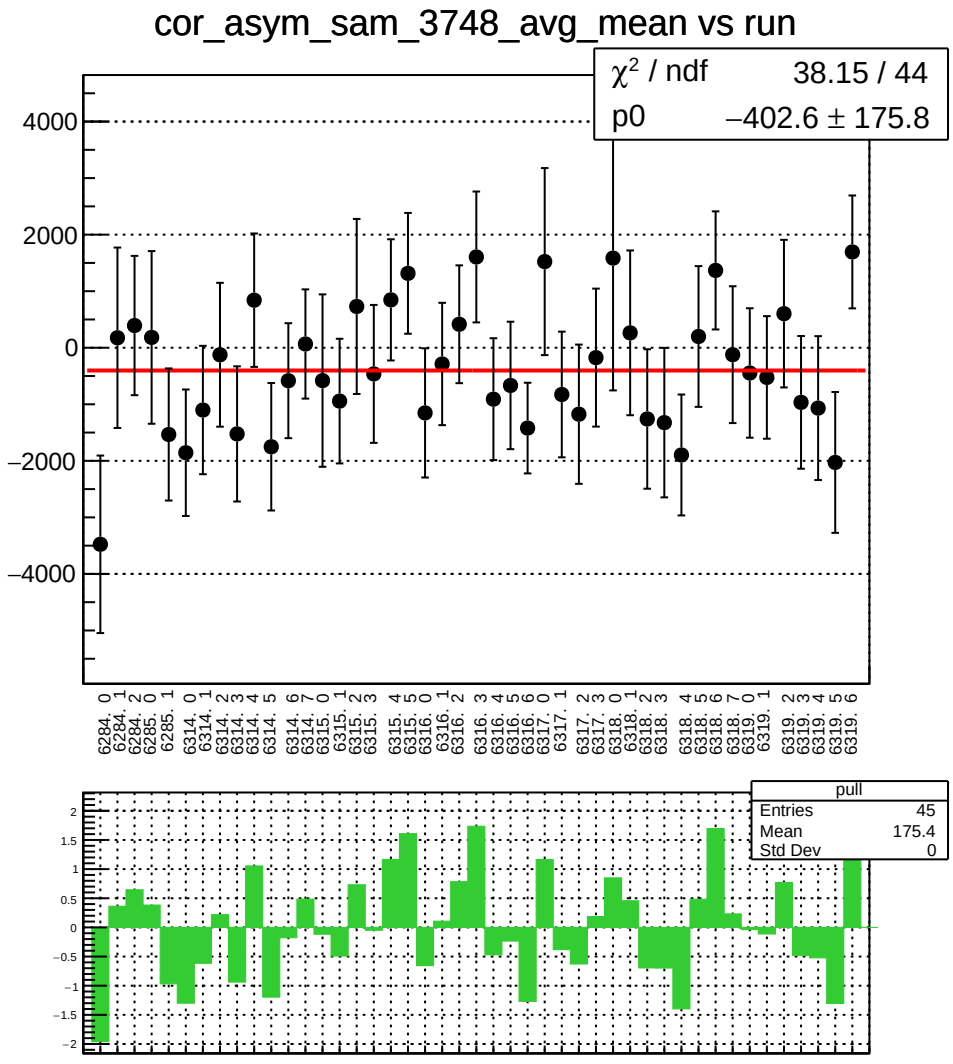

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 38.15 / 44
p0 −402.6 ± 175.8
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 175.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

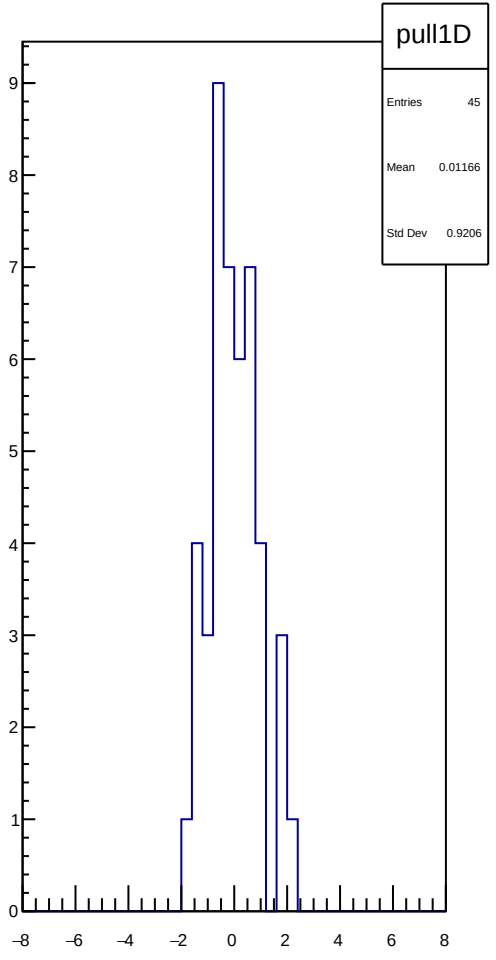

pull1D
Entries 45
Mean 0.01165
Std Dev 0.9206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

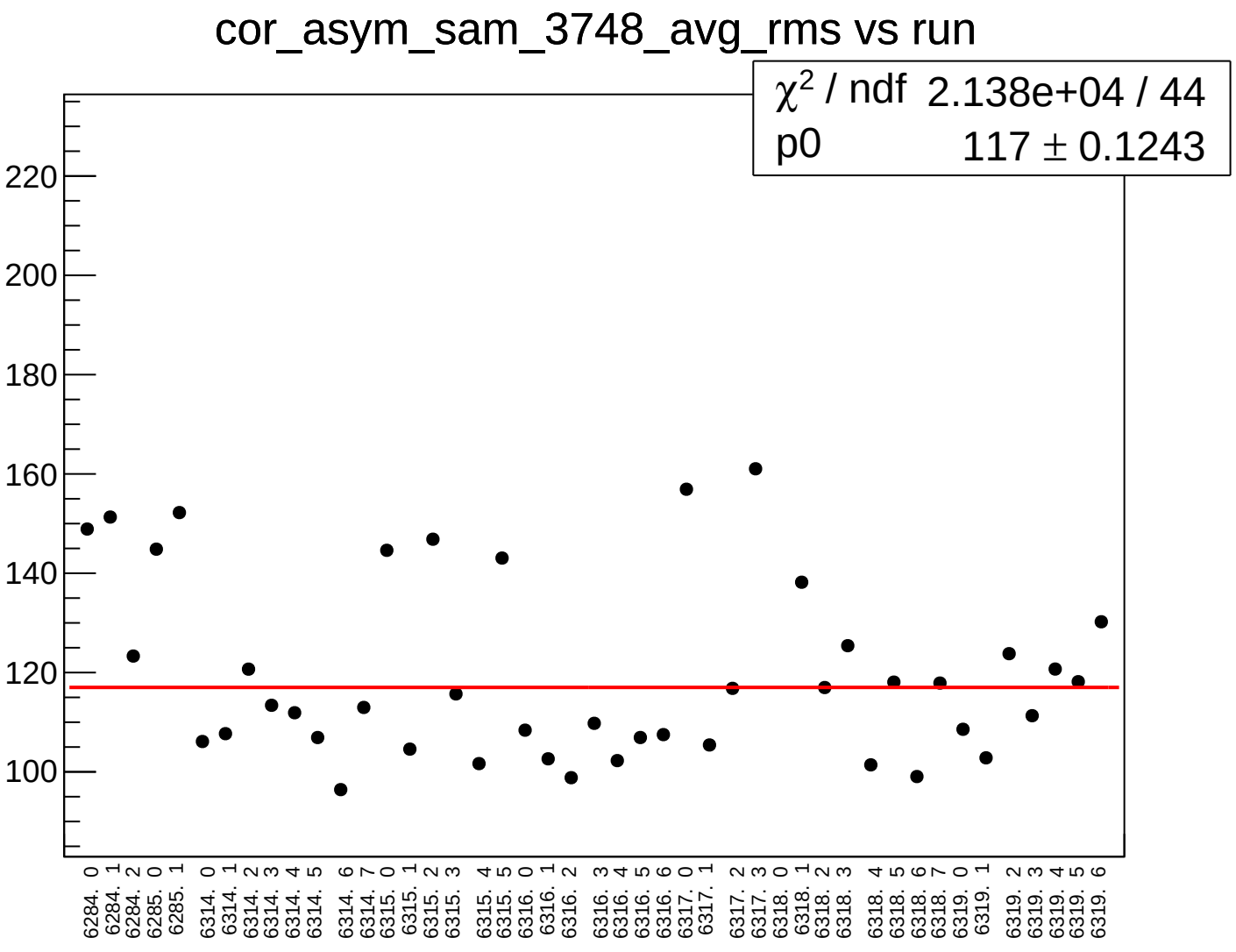

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.138e+04 / 44
p0 117 ± 0.1243
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

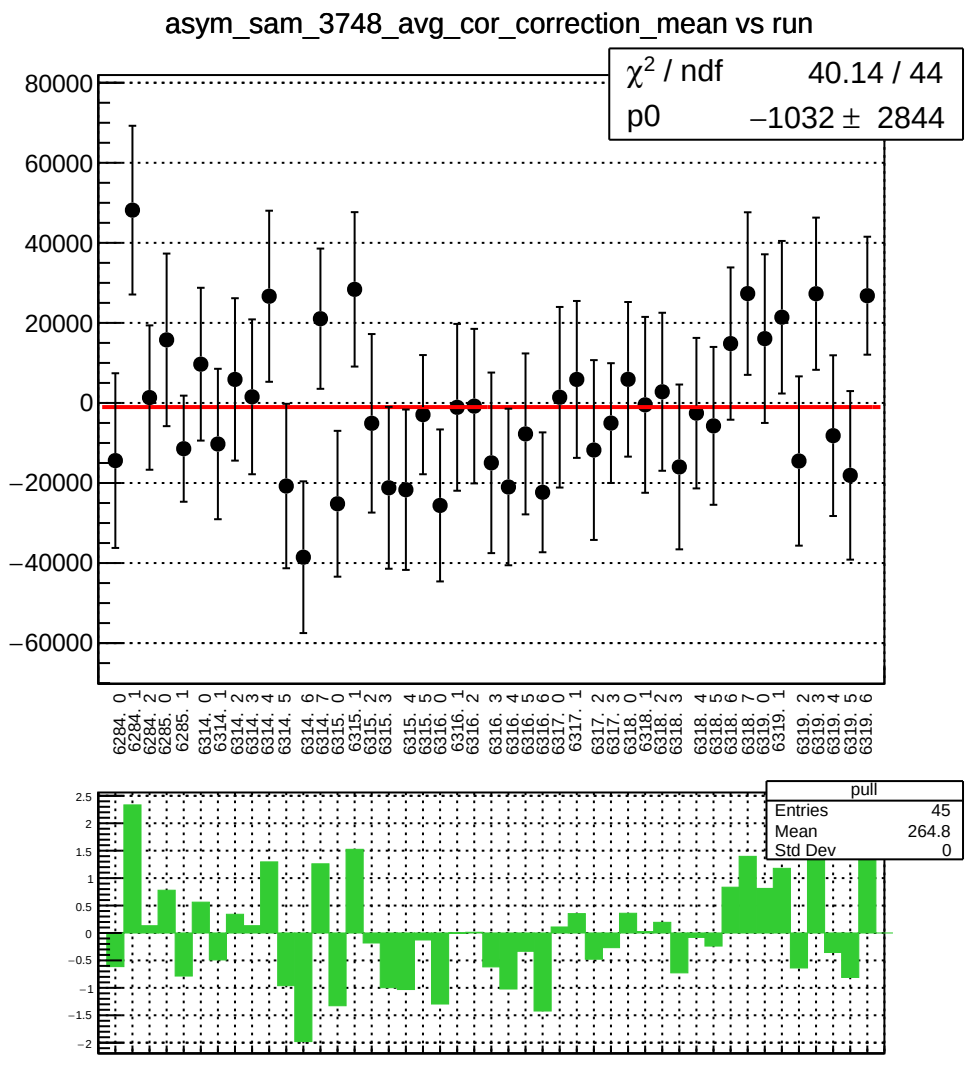

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 40.14 / 44
p0 −1032 ± 2844
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 264.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005251
Std Dev 0.9444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

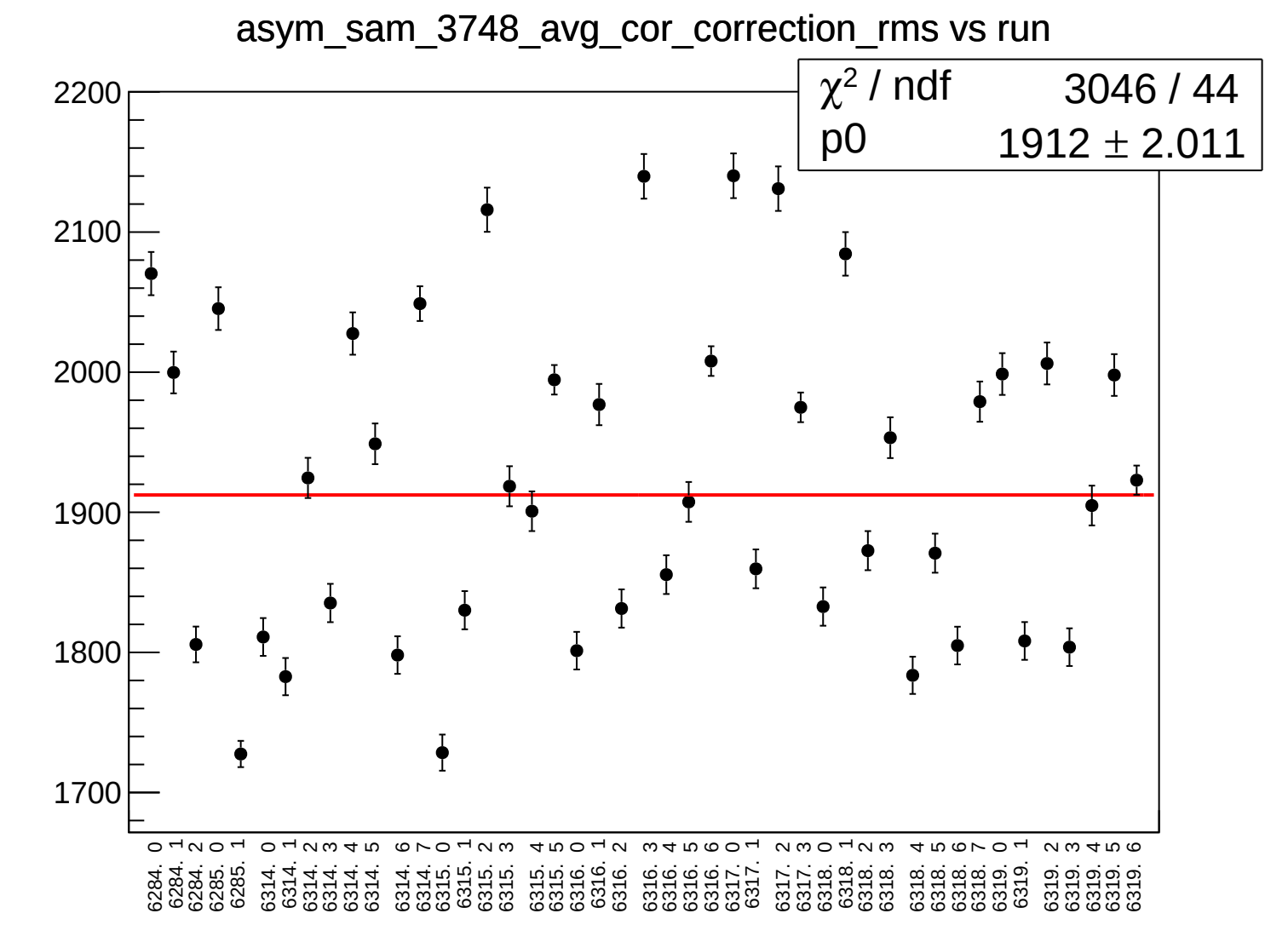

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3046 / 44
p0 1912 ± 2.011
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

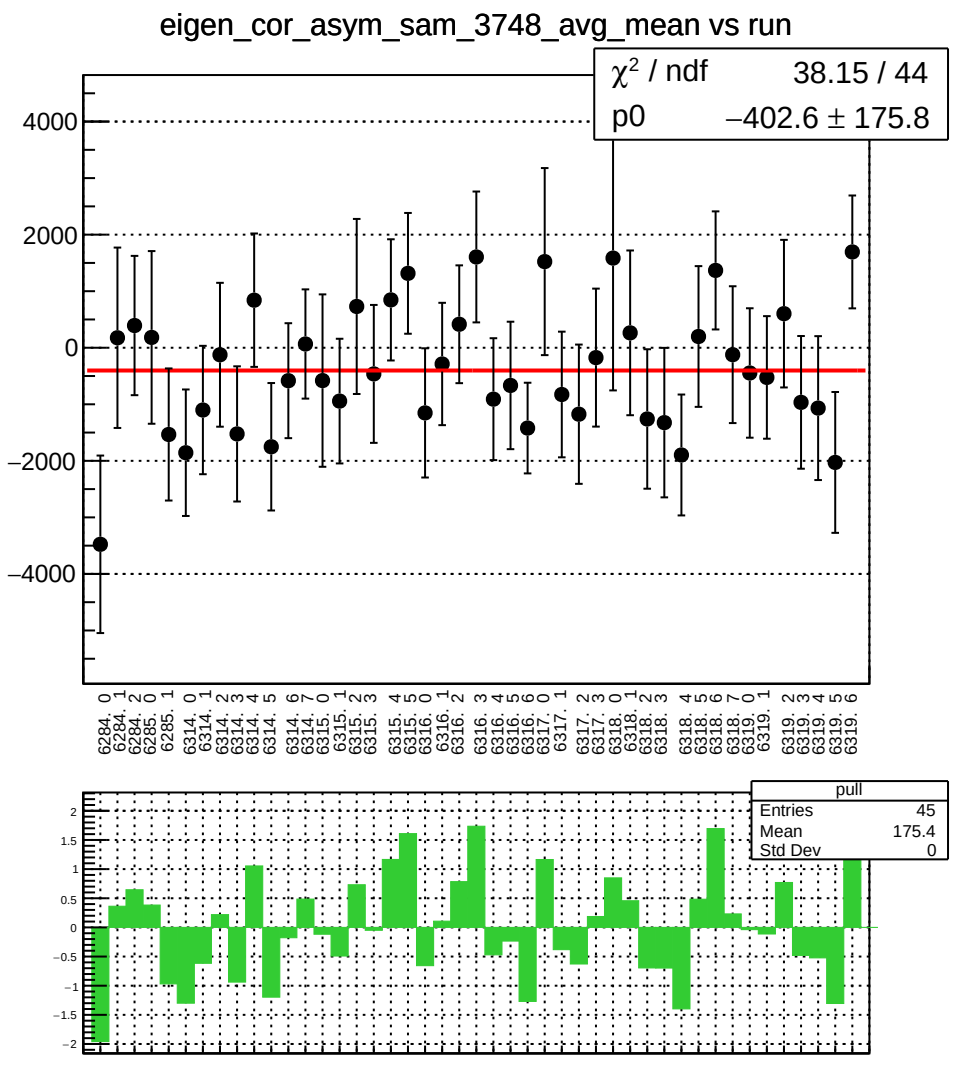

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 38.15 / 44
p0 −402.6 ± 175.8
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 175.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

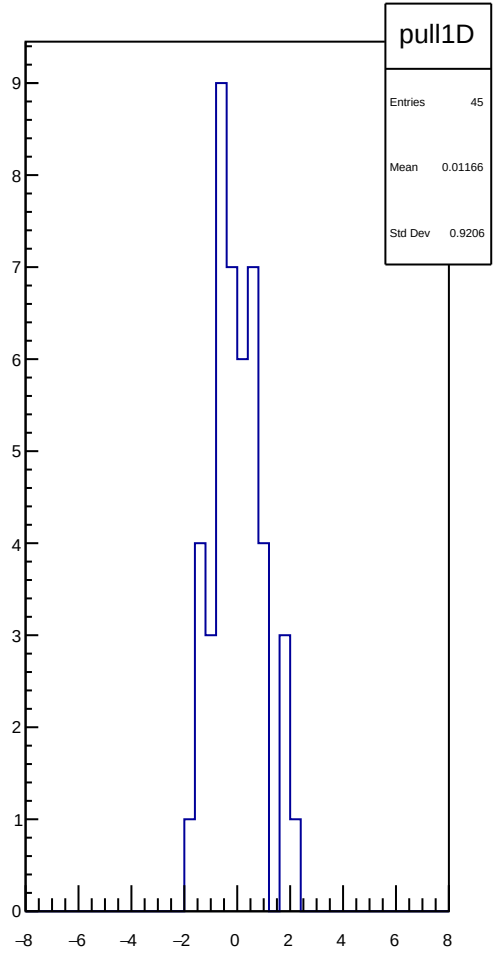

pull1D
Entries 45
Mean 0.01166
Std Dev 0.9206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

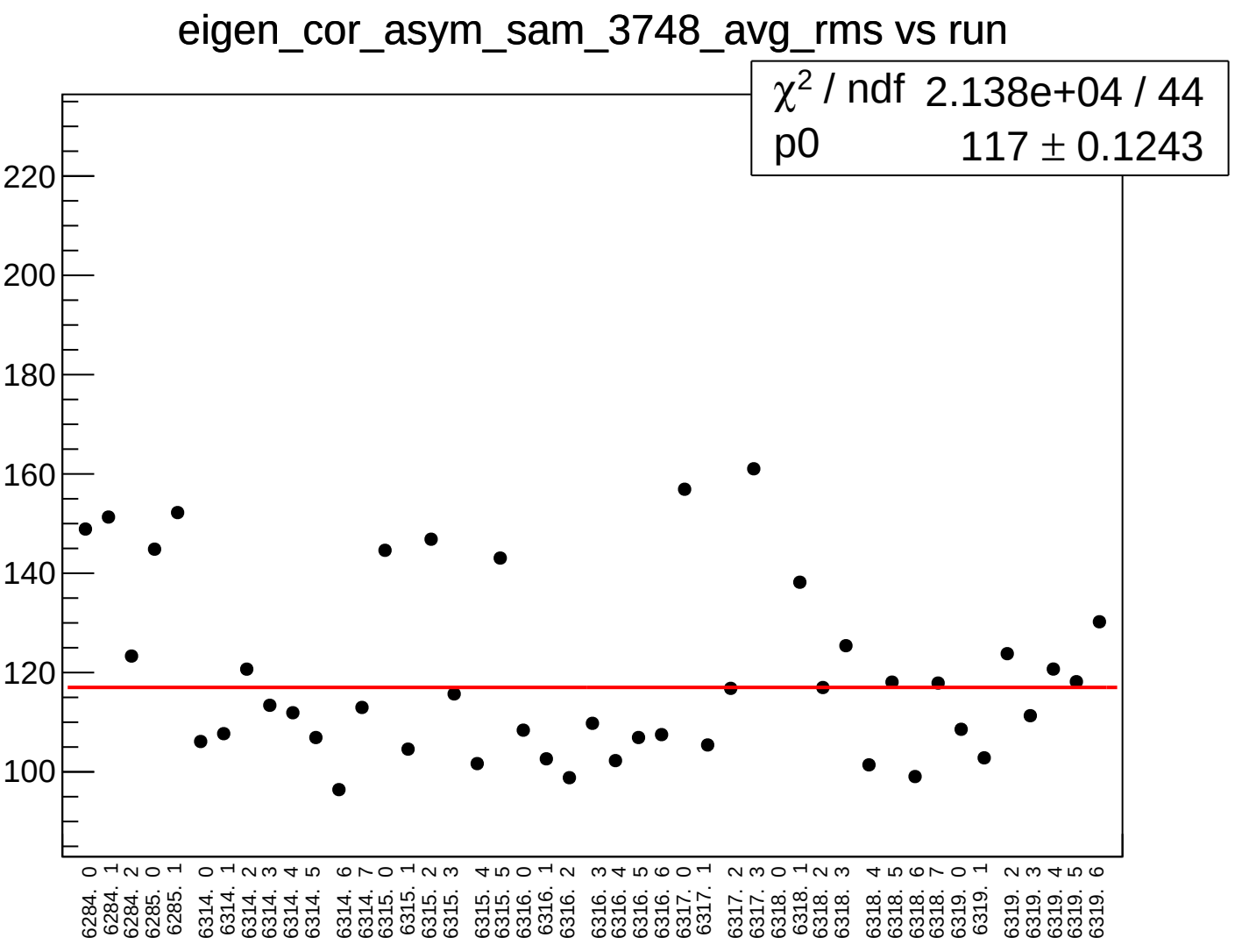

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.138e+04 / 44
p0 117 ± 0.1243
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 40.14 / 44
p0 −1032 ± 2844
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 264.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005251
Std Dev 0.9444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3046 / 44
p0 1912 ± 2.011
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 38.15 / 44
p0 −402.6 ± 175.8
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 175.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01166
Std Dev 0.9206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.138e+04 / 44
p0 117 ± 0.1243
220
200
180
160
140
120
100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
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6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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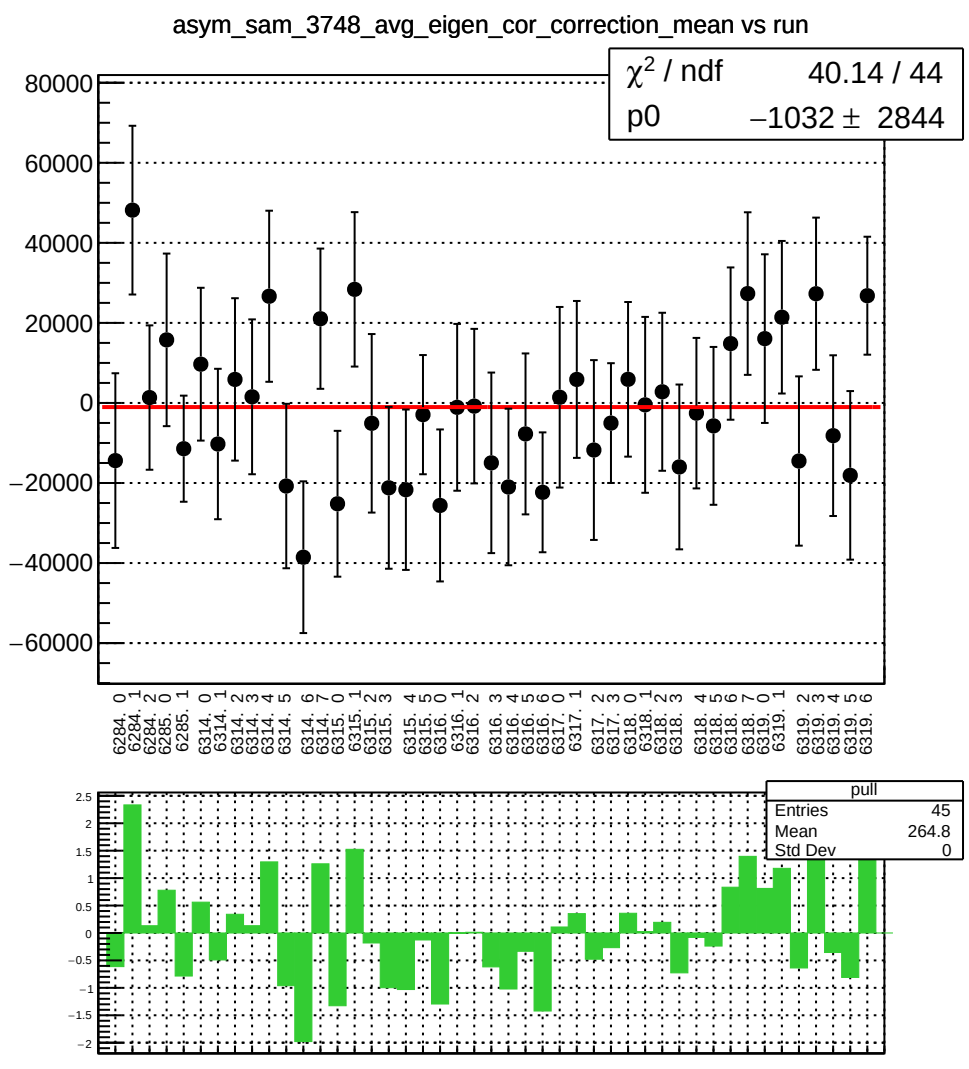
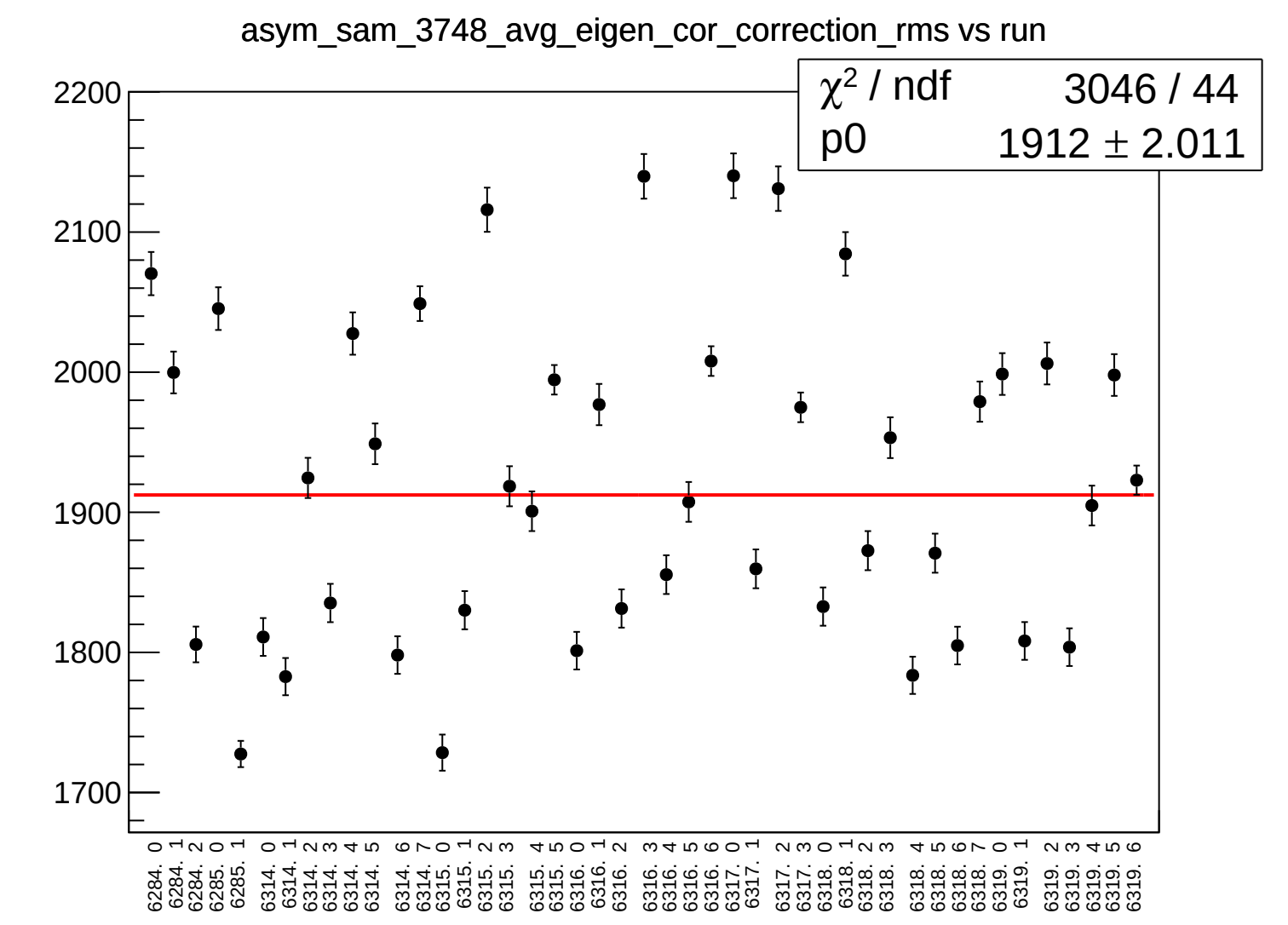
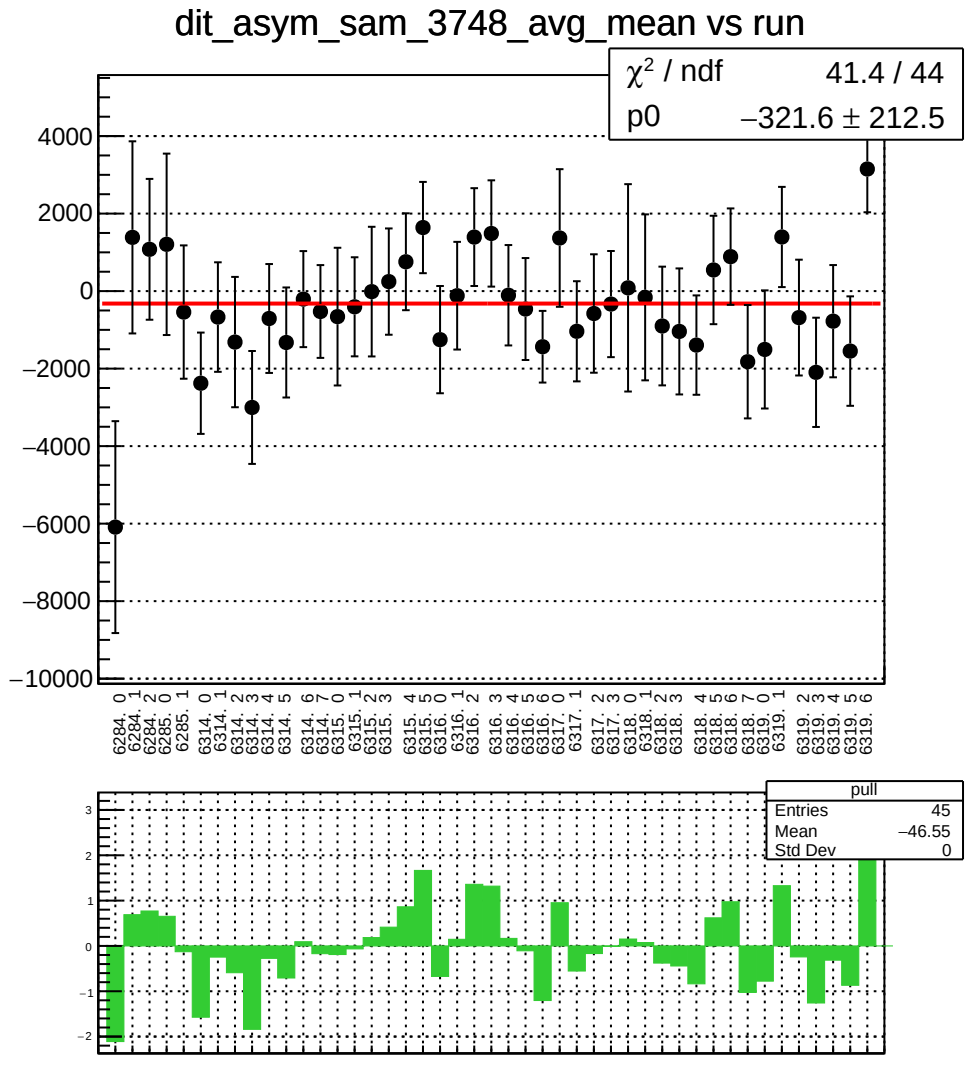
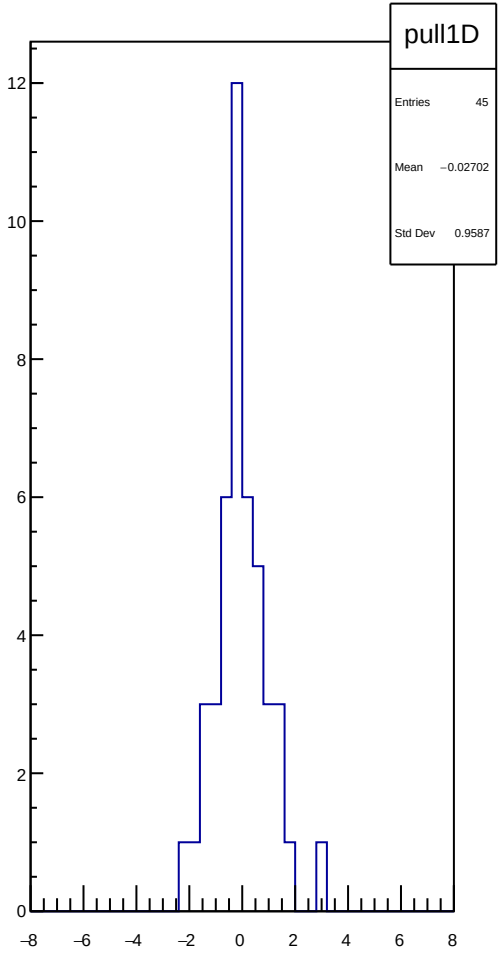
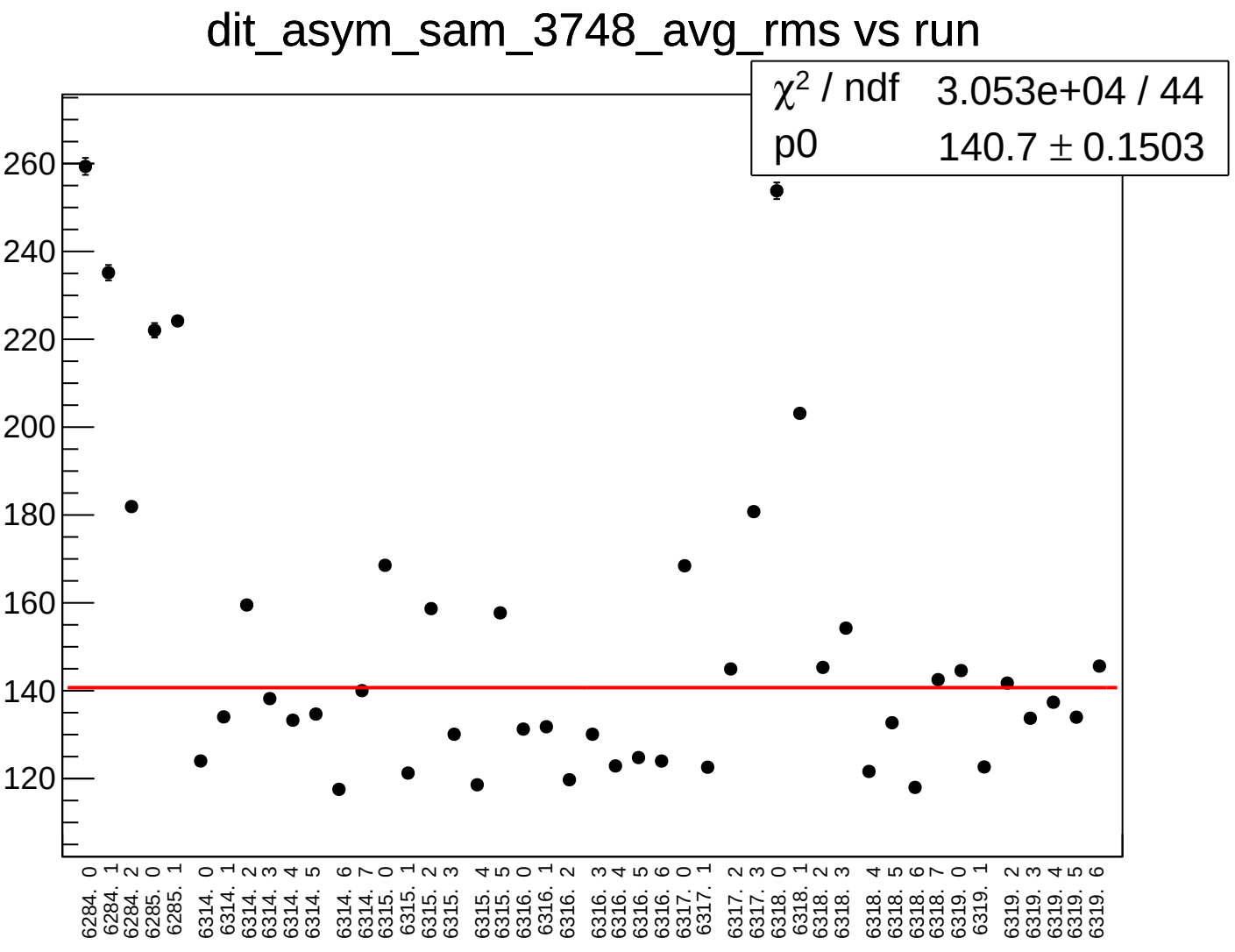
6319. 5
6319. 6


asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.14 / 44
p0 −1032 ± 2844
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 264.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005251
Std Dev 0.9444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3046 / 44
p0 1912 ± 2.011
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.4 / 44
p0 −321.6 ± 212.5
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.55
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02702
Std Dev 0.9587
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.053e+04 / 44
p0 140.7 ± 0.1503
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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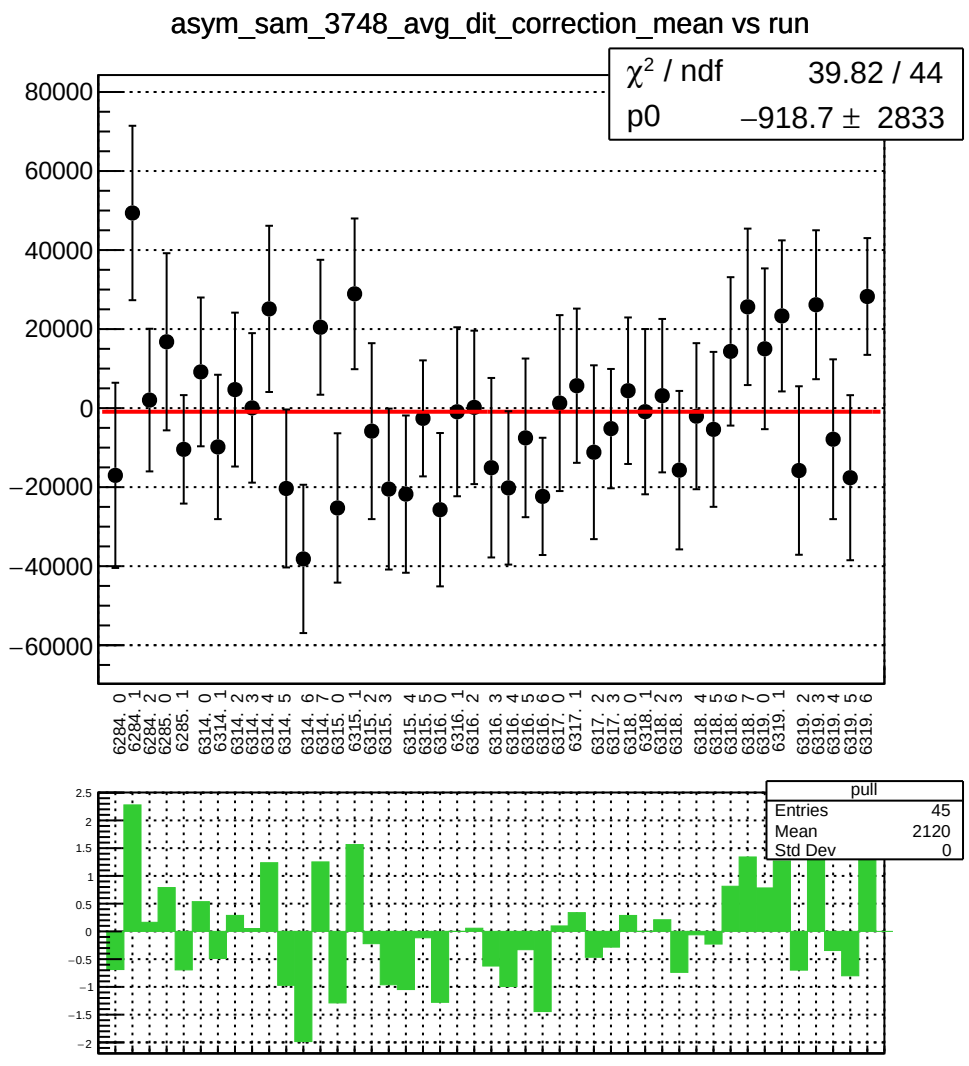
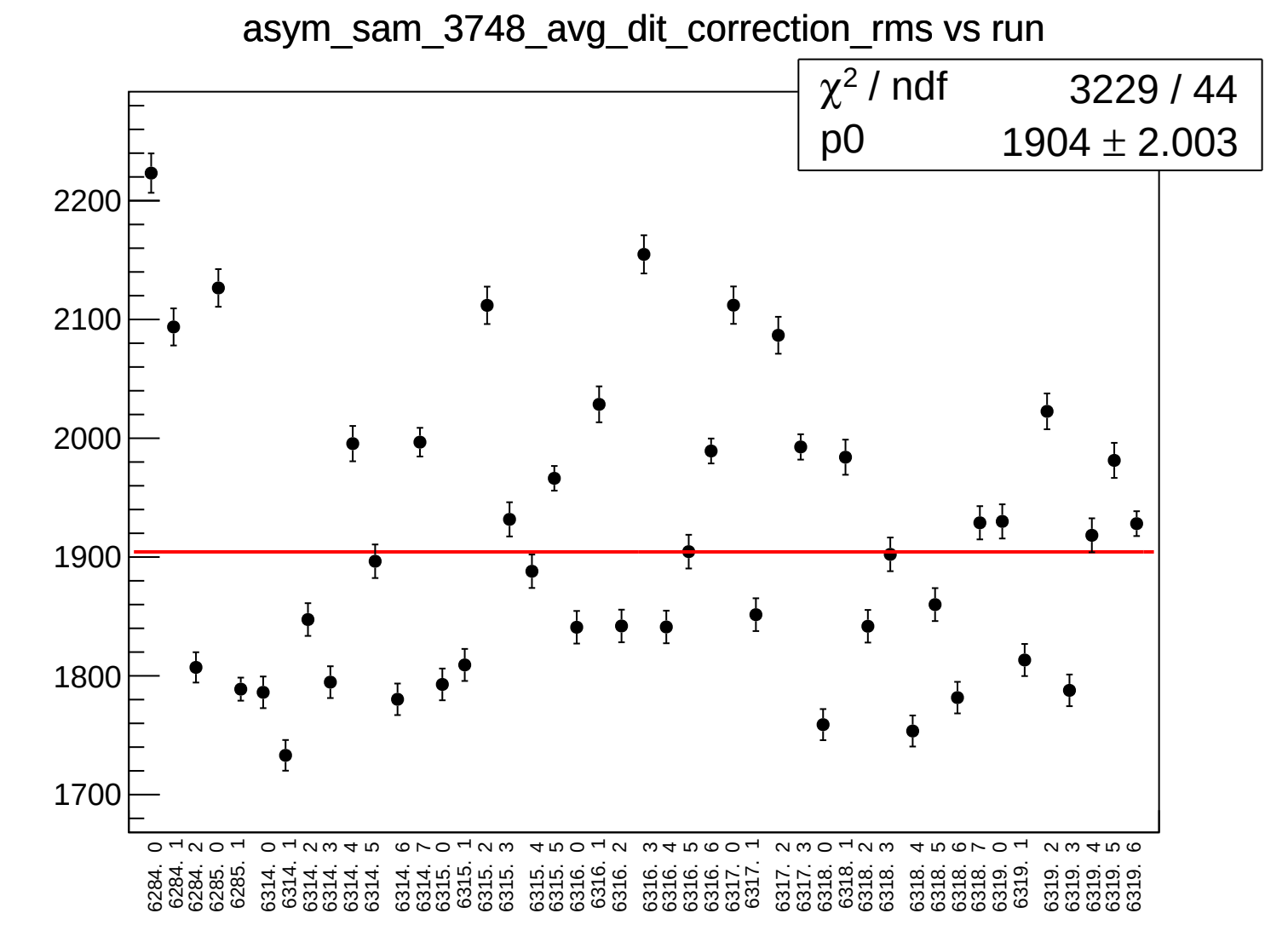
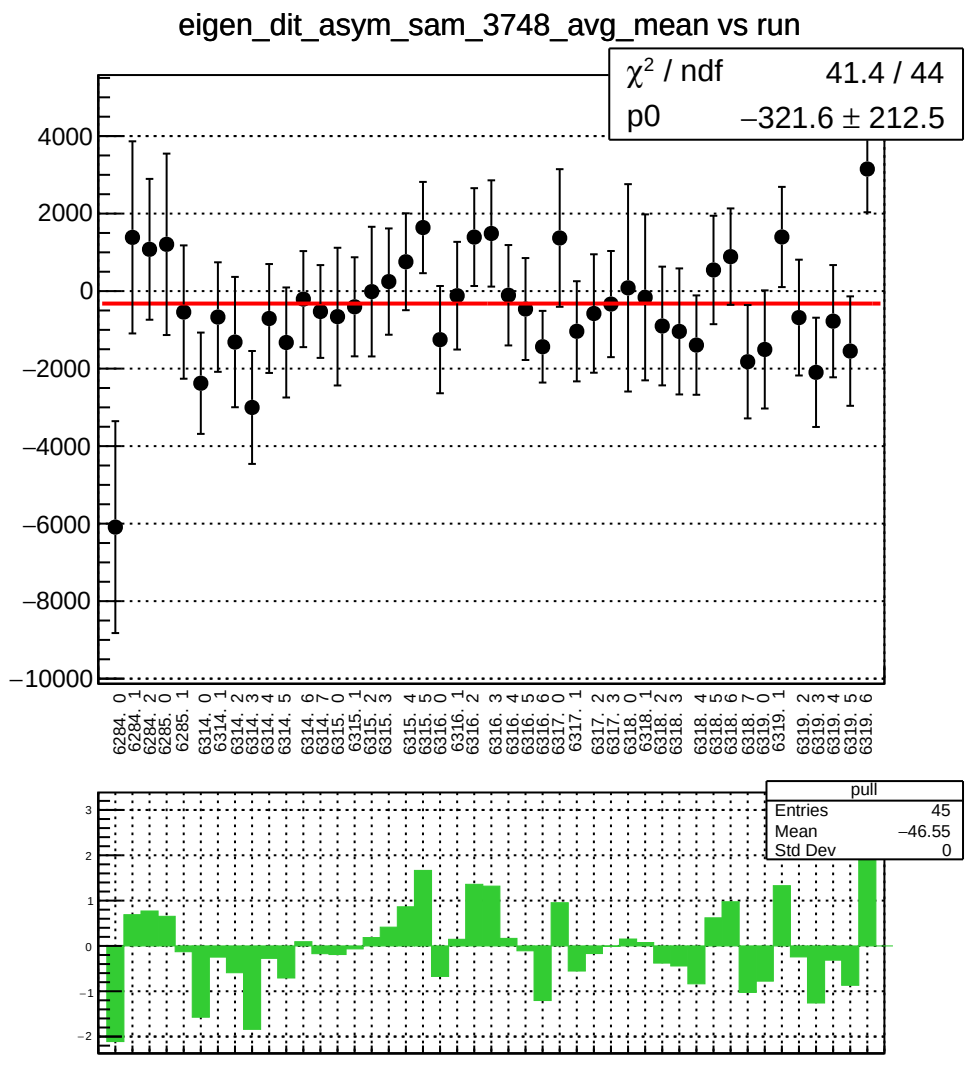
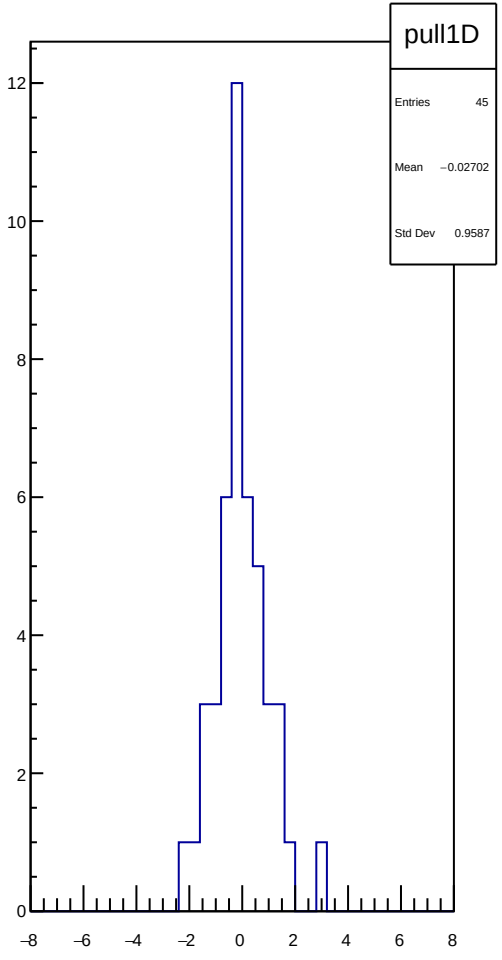
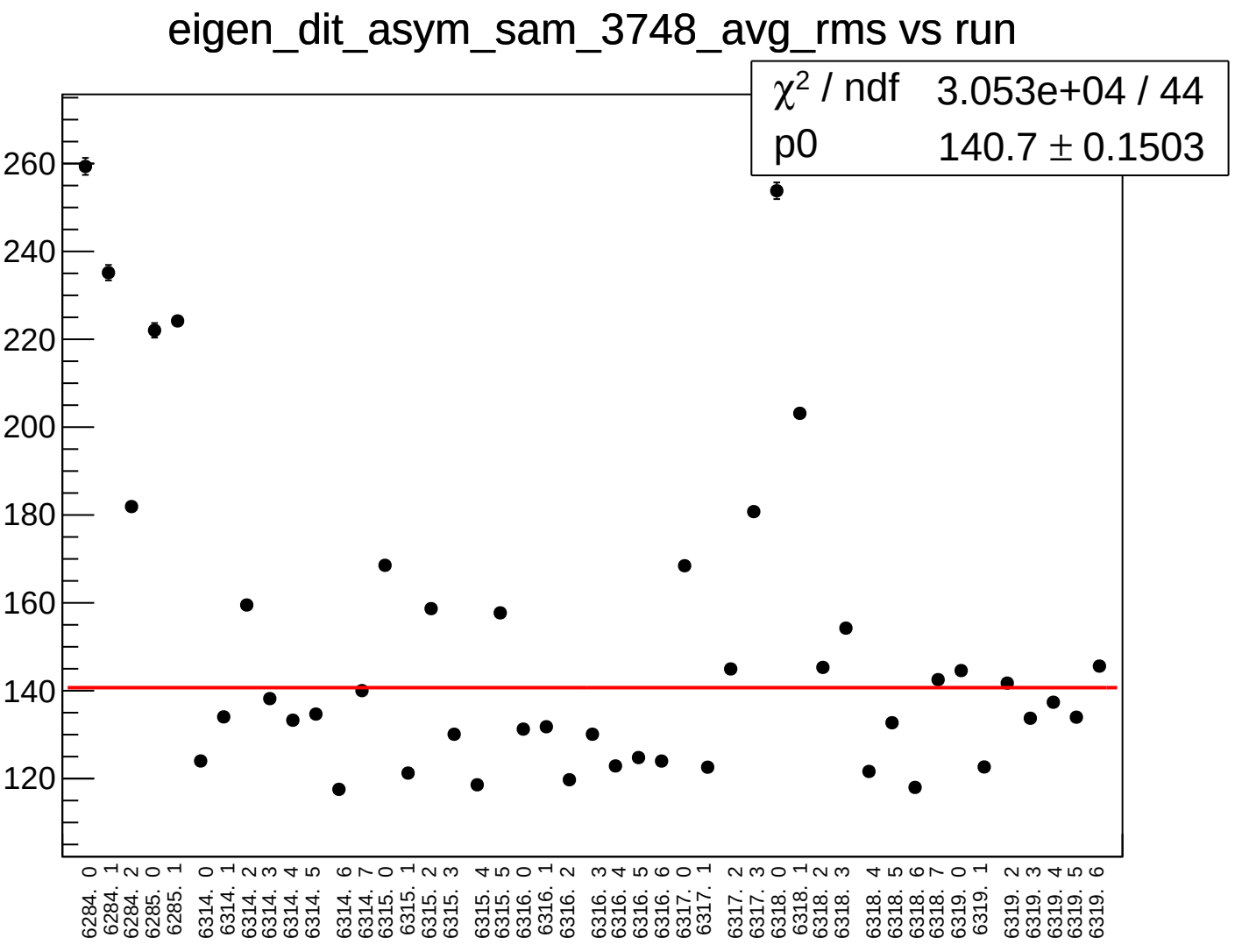
6319. 6


asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 39.82 / 44
p0 −918.7 ± 2833
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0006345
Std Dev 0.9407
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3229 / 44
p0 1904 ± 2.003
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.4 / 44
p0 −321.6 ± 212.5
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.55
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02702
Std Dev 0.9587
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.053e+04 / 44
p0 140.7 ± 0.1503
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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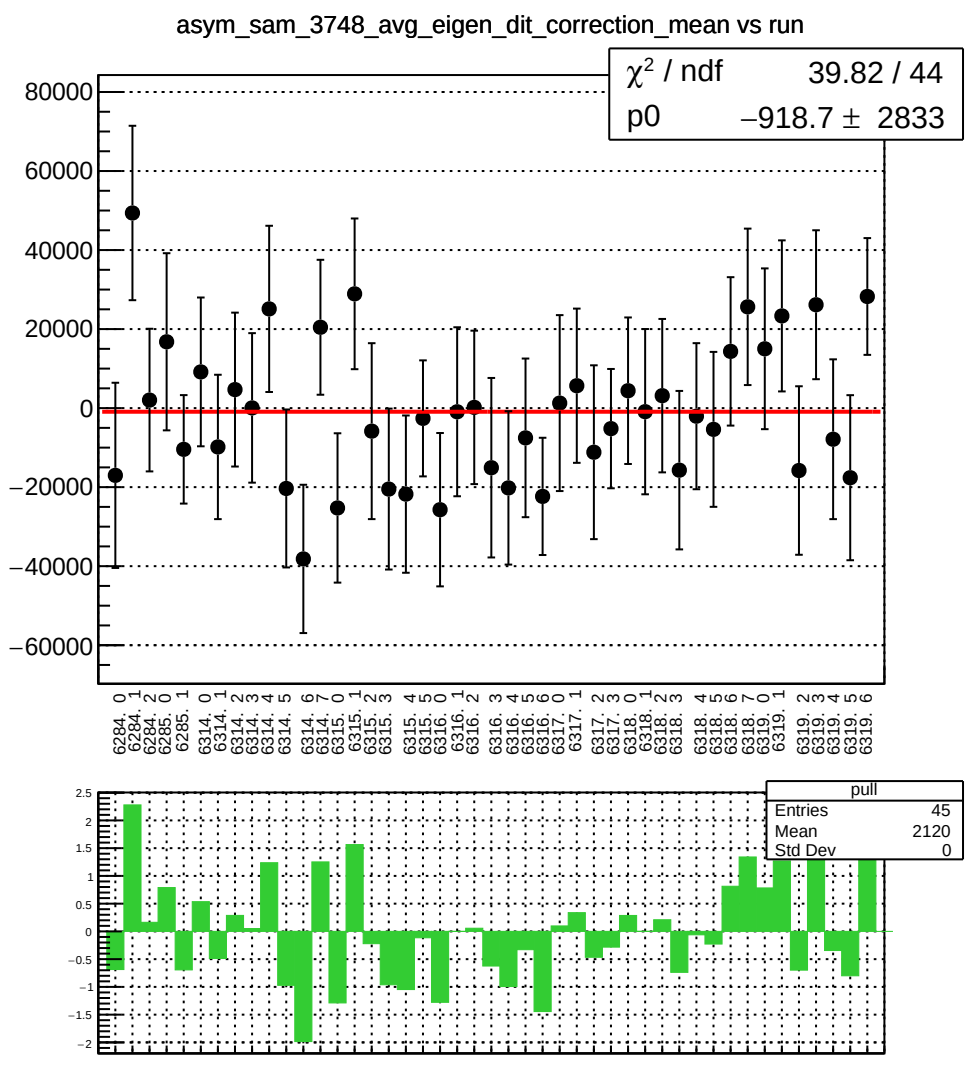
6319. 6


asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.82 / 44
p0 −918.7 ± 2833
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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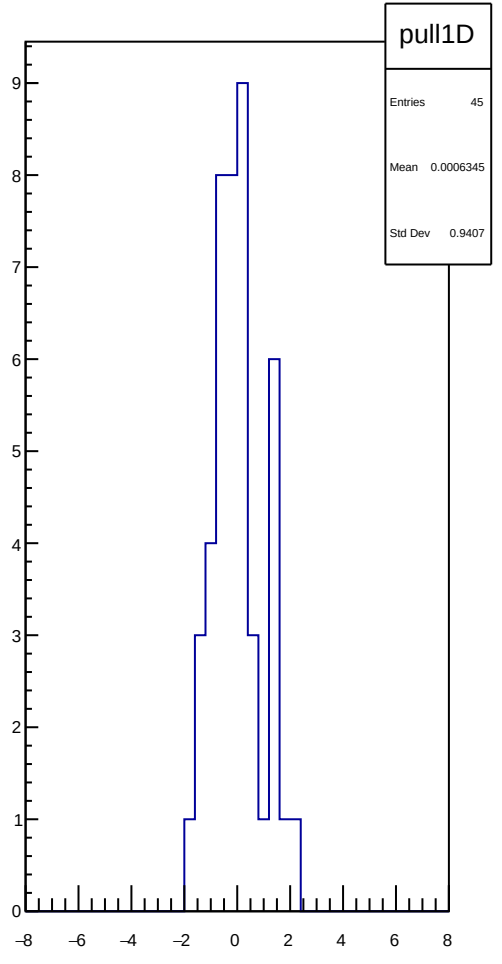
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0006345
Std Dev 0.9407
9
8
7
6
5
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3
2
1
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−8
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−4
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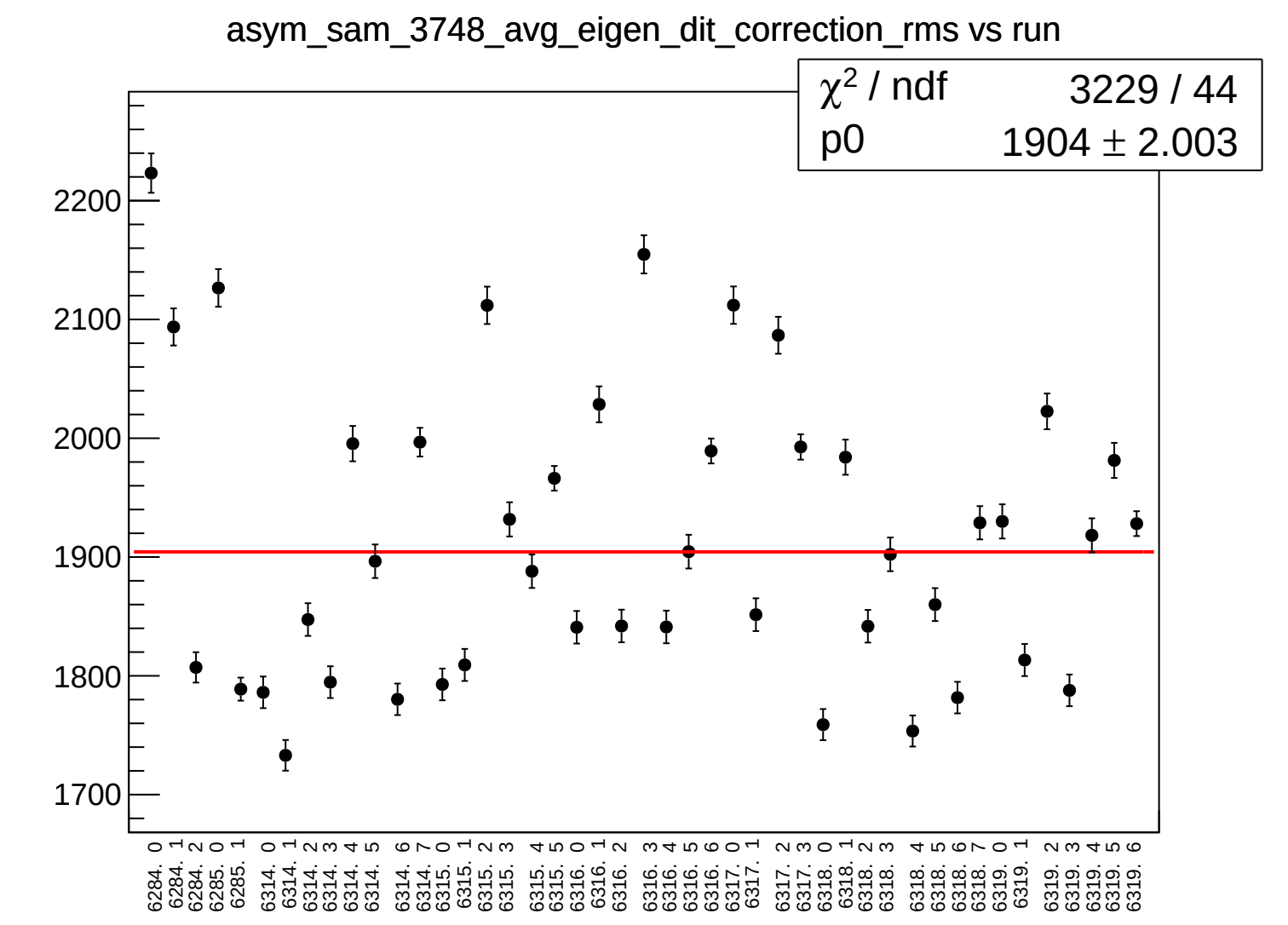
6
8


asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3229 / 44
p0 1904 ± 2.003
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
6319. 1
6319. 2
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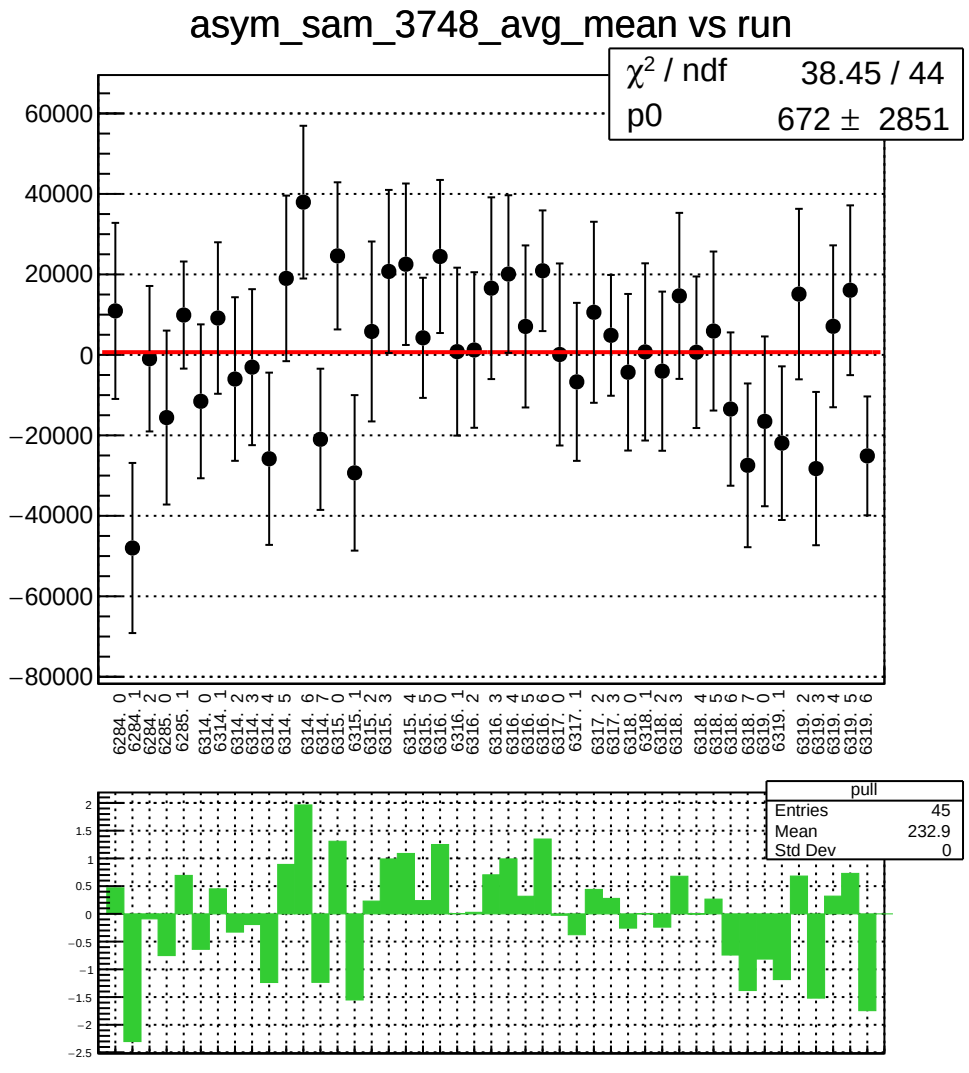
6319. 5
6319. 6


asym_sam_3748_avg_mean vs run
χ² / ndf 38.45 / 44
p0 672 ± 2851
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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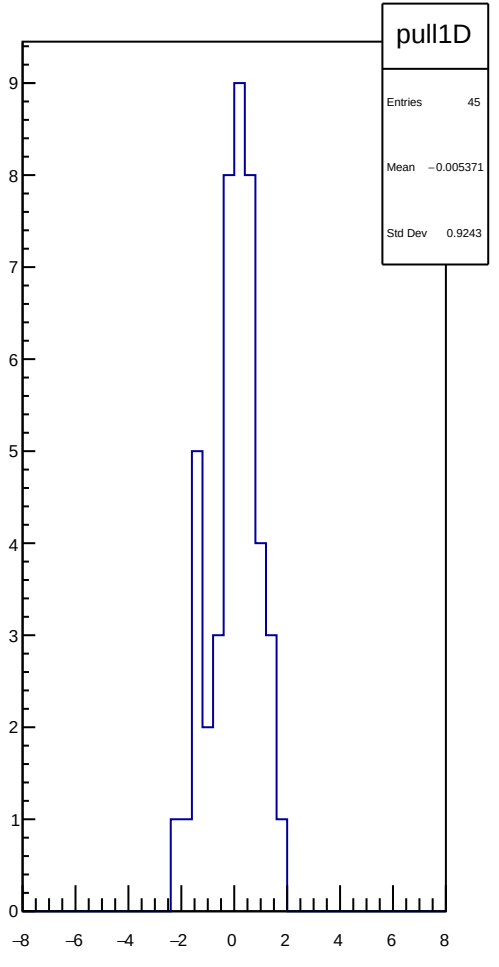
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 232.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.005371
Std Dev 0.9243
9
8
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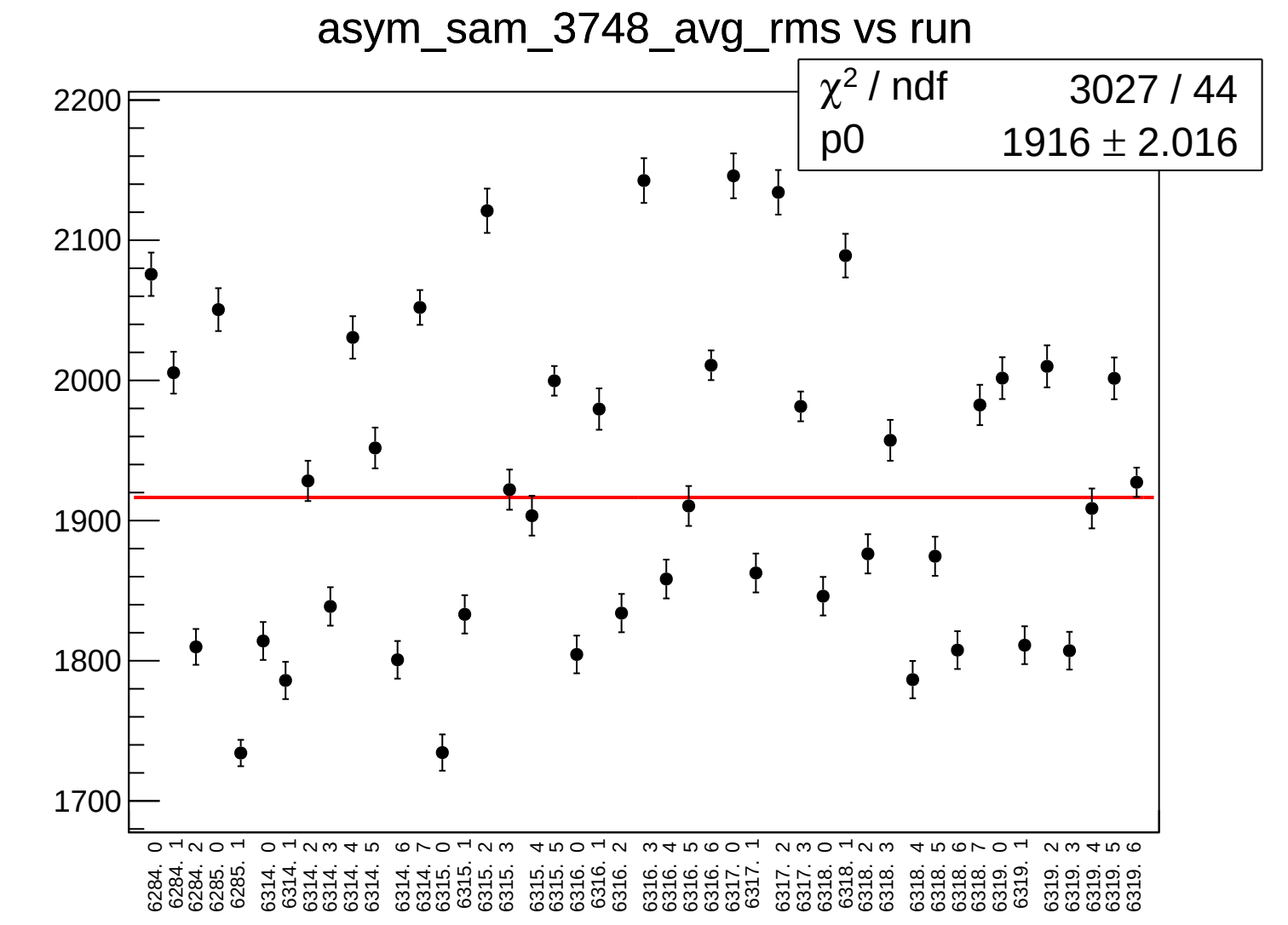
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_rms vs run
χ² / ndf 3027 / 44
p0 1916 ± 2.016
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
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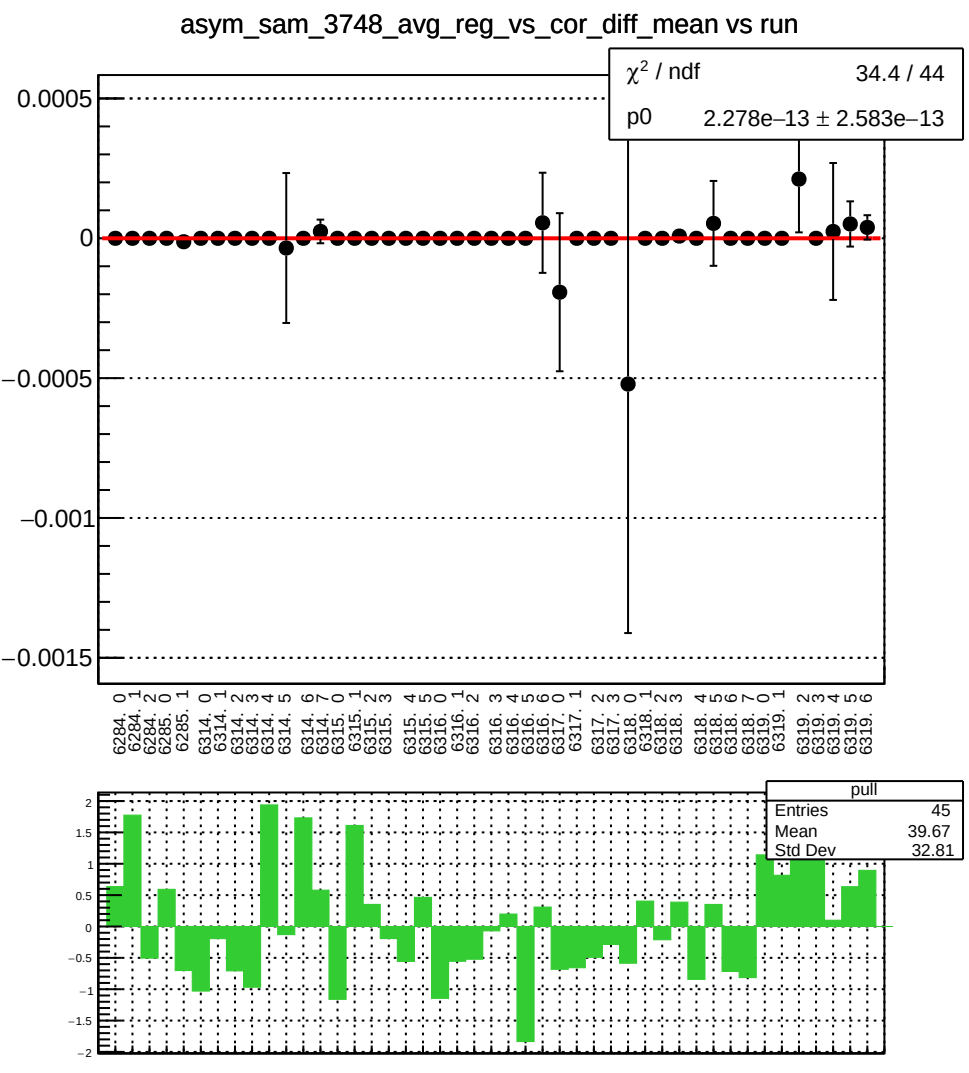
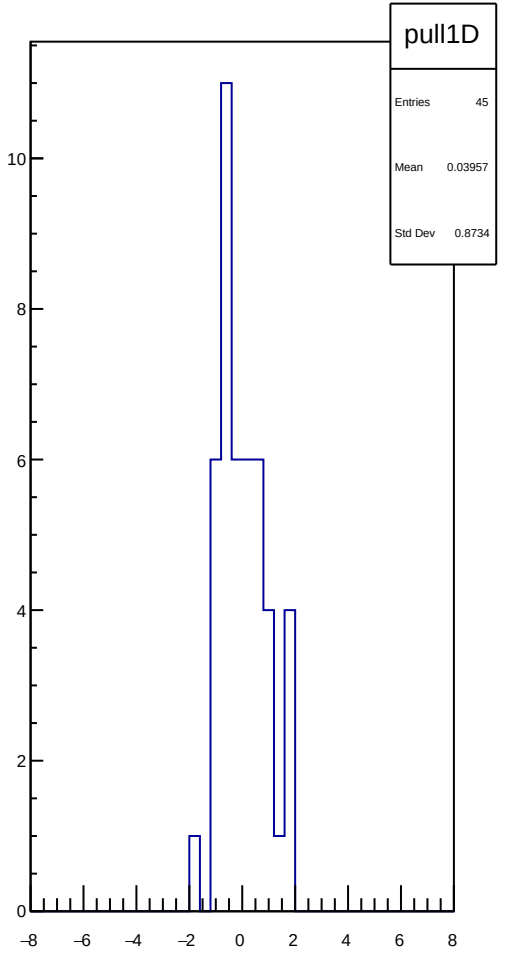
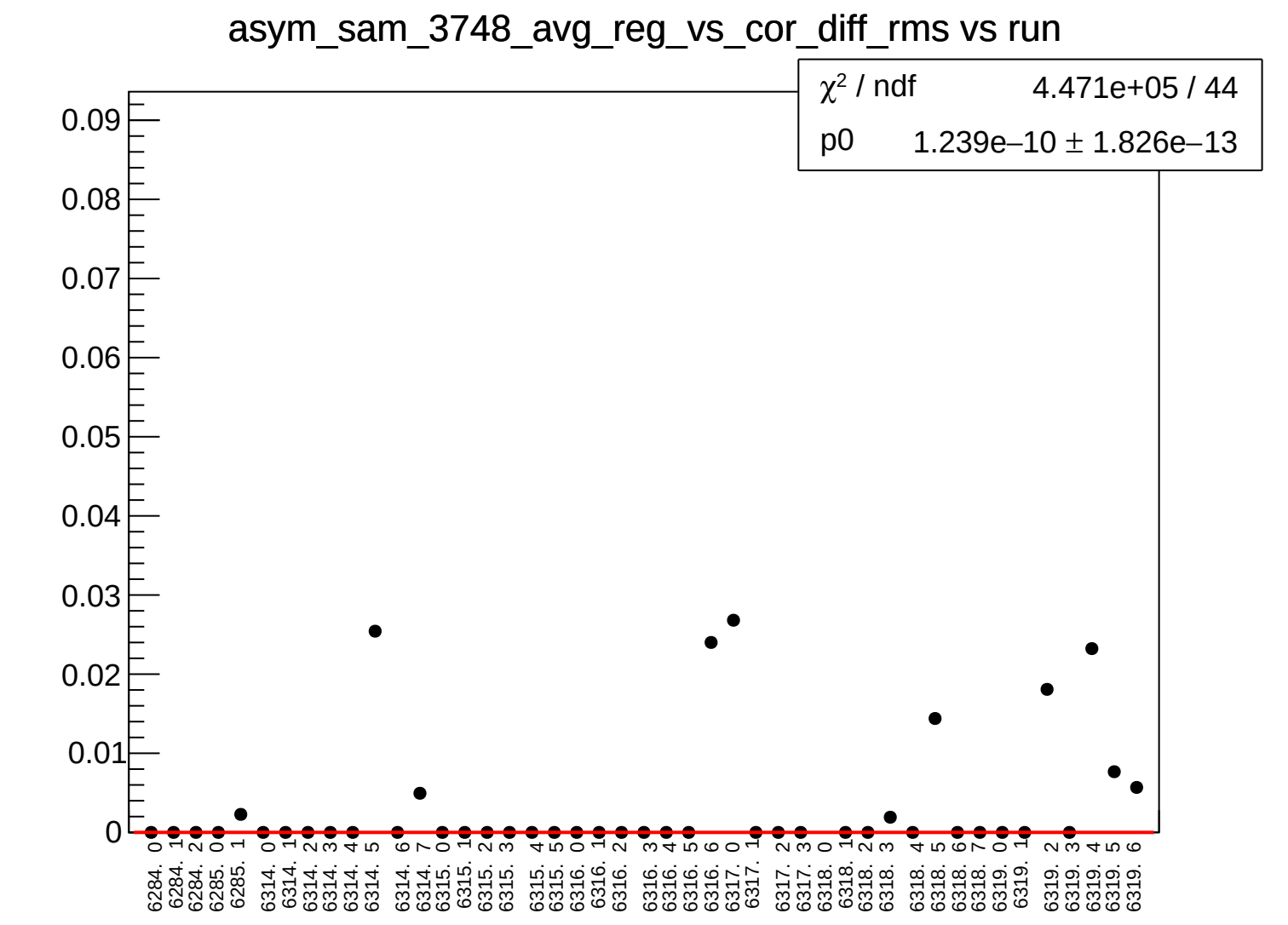
6319. 5
6319. 6


asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.4 / 44
p0 2.278e−13 ± 2.583e−13
0.0005
0
−0.0005
−0.001
−0.0015
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 39.67
Std Dev 32.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03957
Std Dev 0.8734
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.471e+05 / 44
p0 1.239e−10 ± 1.826e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
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6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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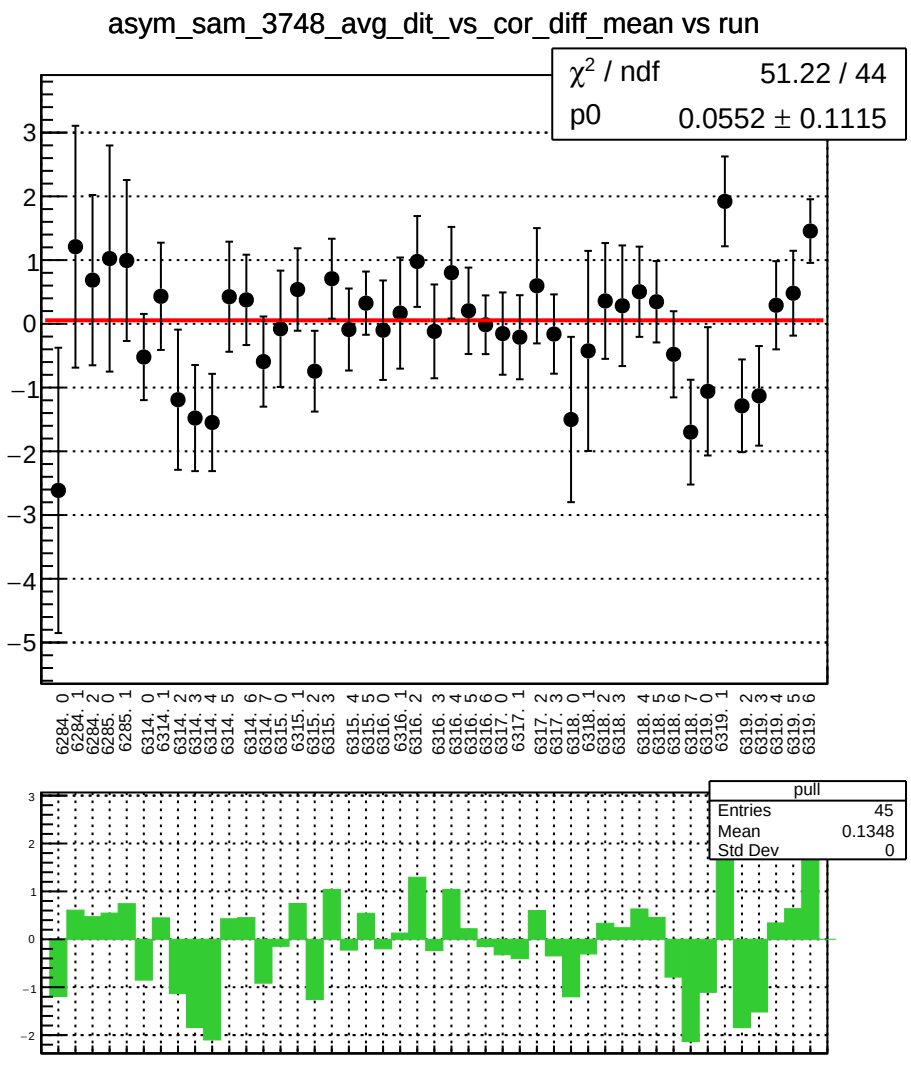
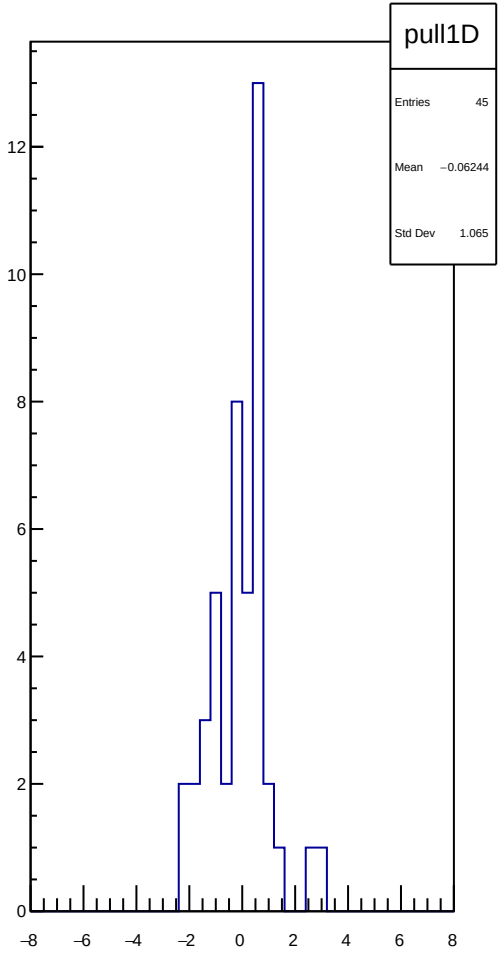
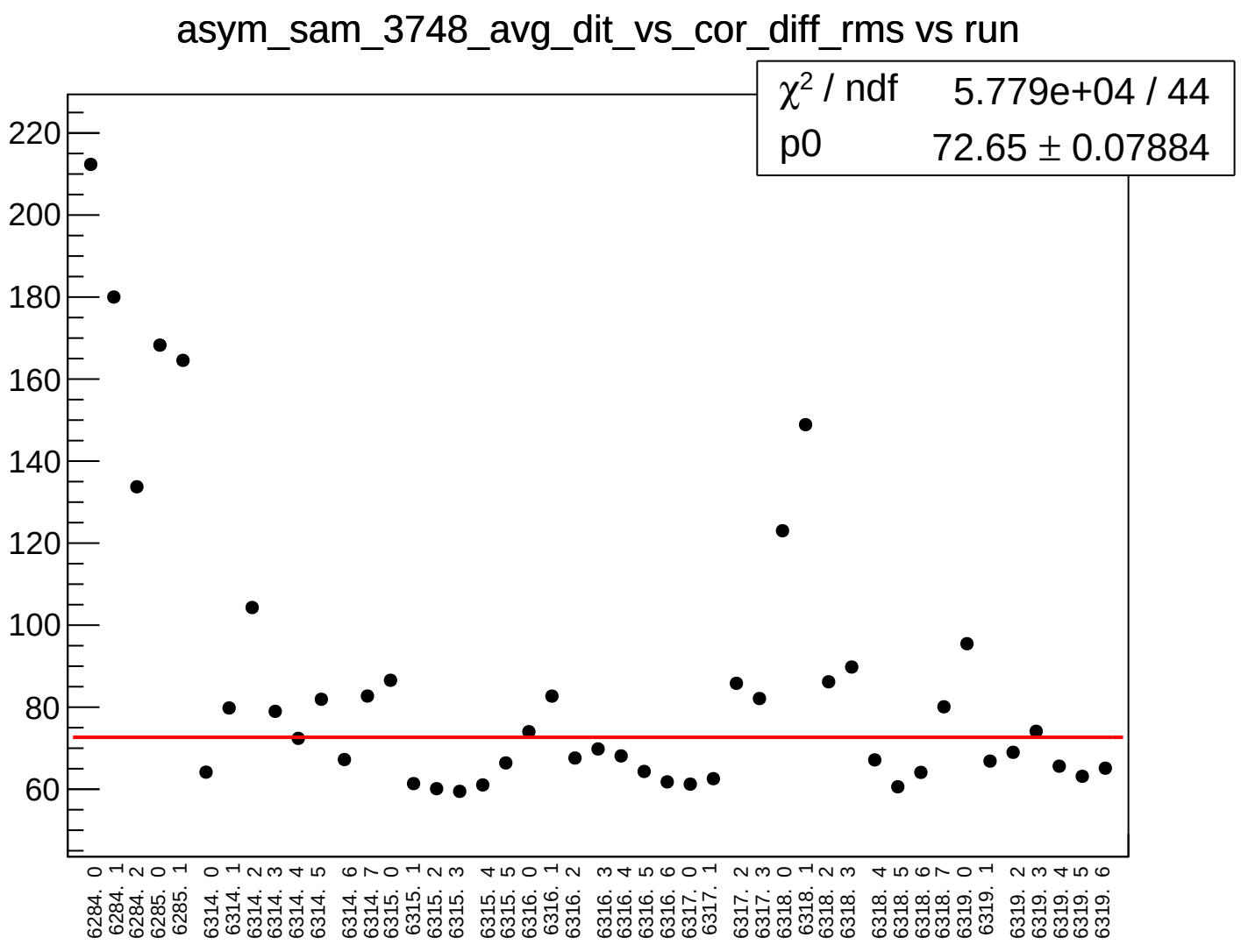
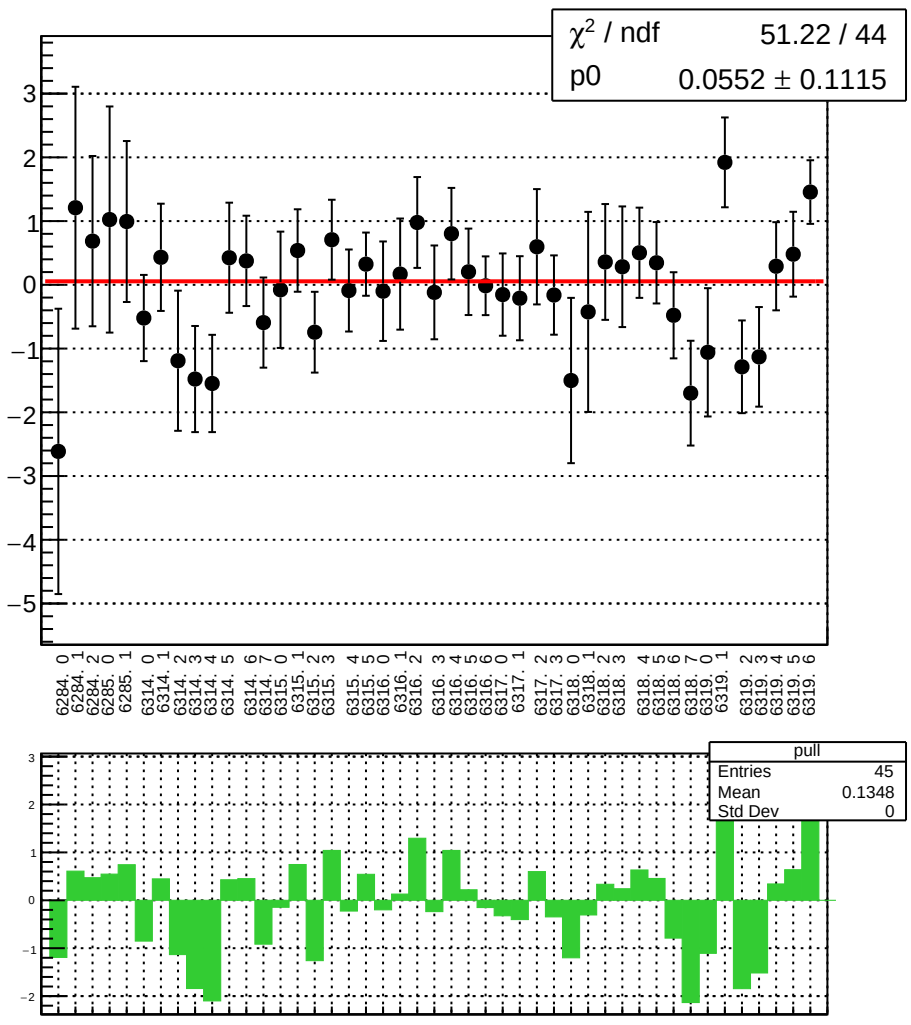
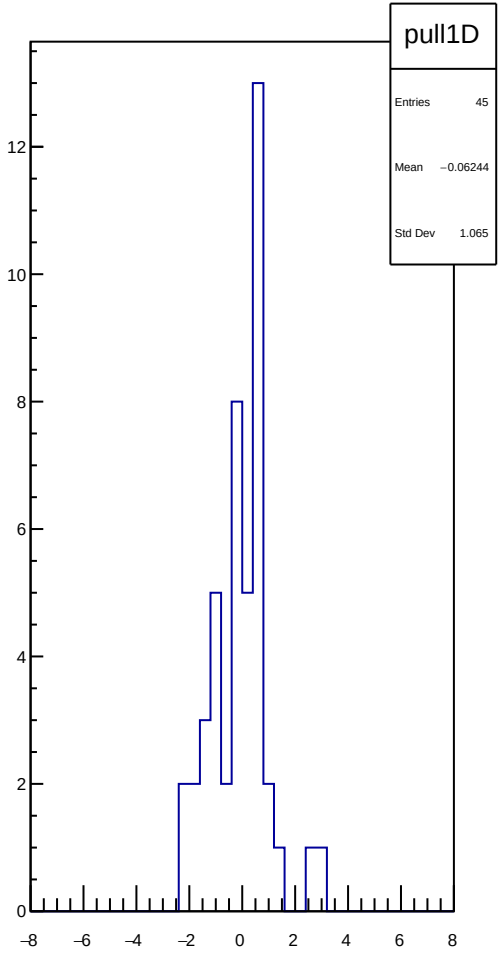
6319. 5
6319. 6

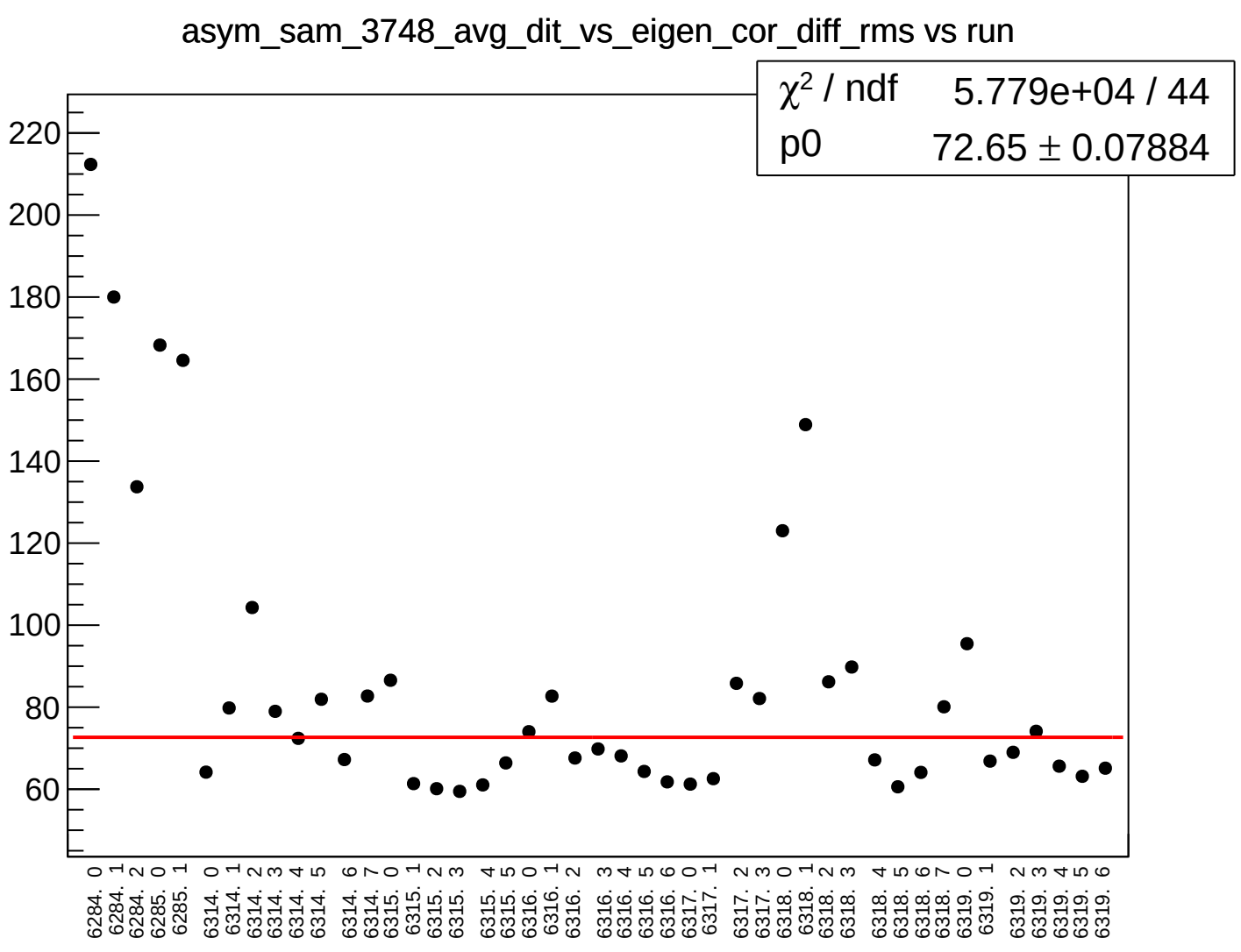

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.22 / 44
p0 0.0552 ± 0.1115
pull
Entries 45
Mean 0.1348
Std Dev 0

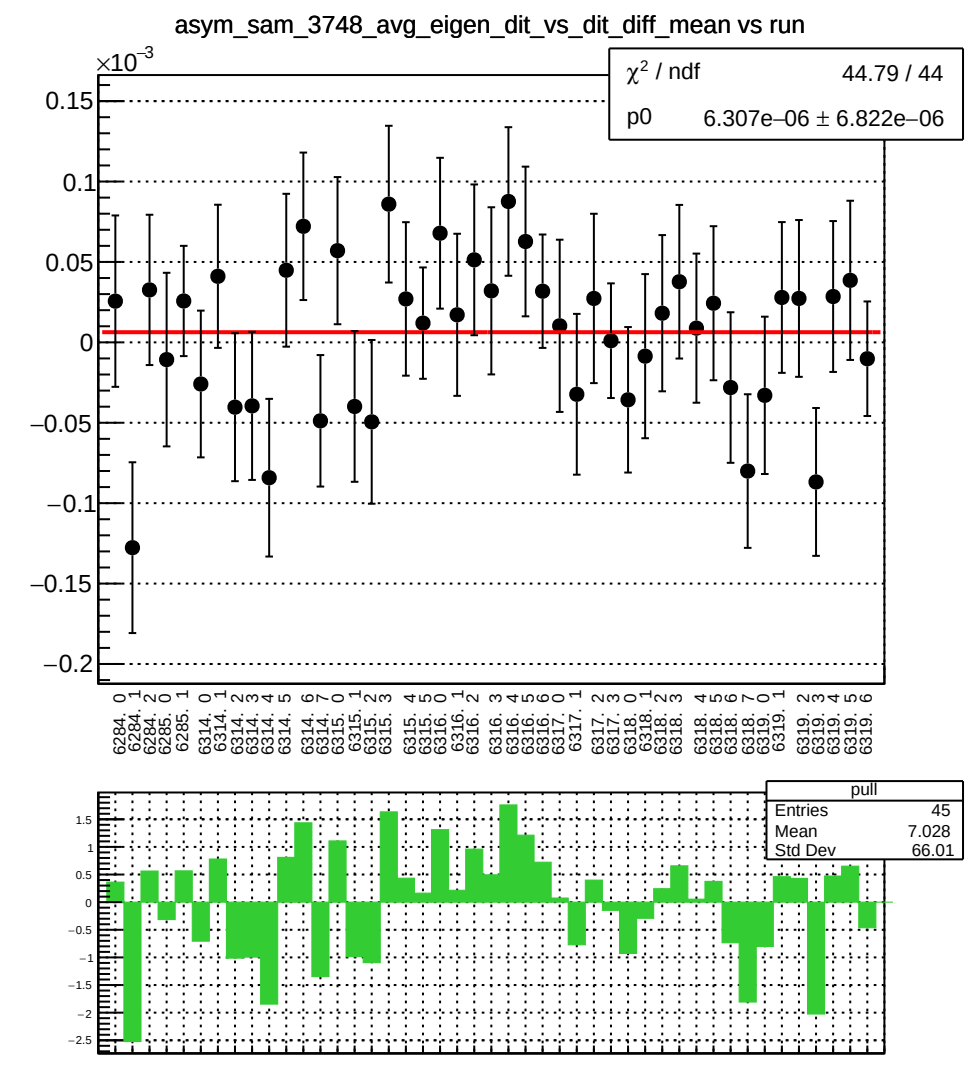

pull1D
Entries 45
Mean −0.06244
Std Dev 1.065

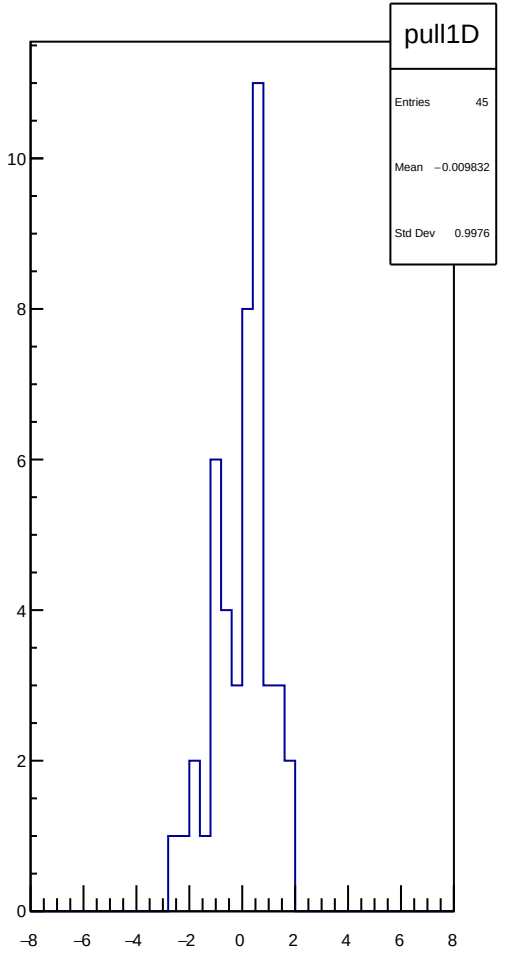

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.779e+04 / 44
p0 72.65 ± 0.07884
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

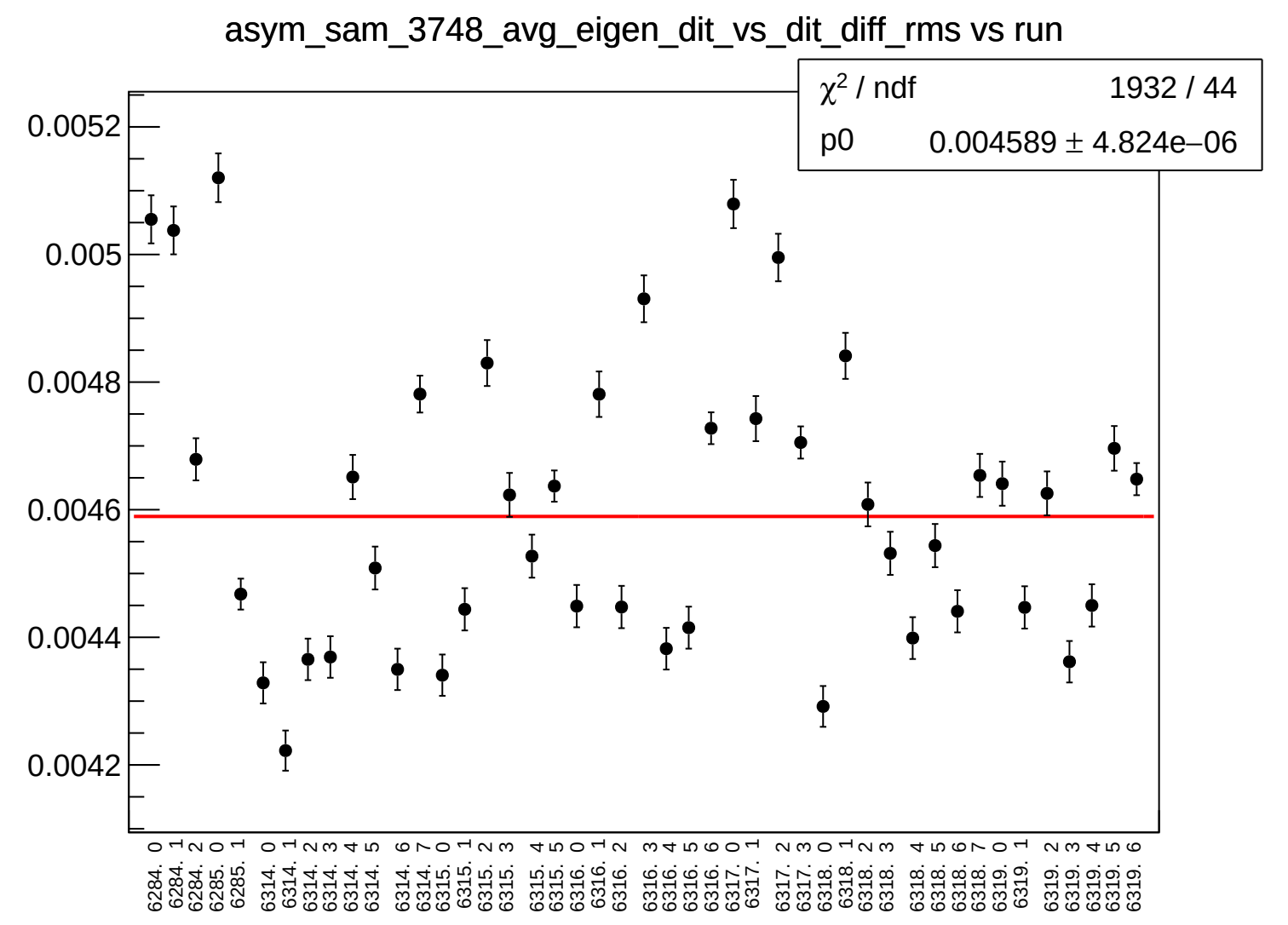

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.22 / 44
p0 0.0552 ± 0.1115
pull
Entries 45
Mean 0.1348
Std Dev 0

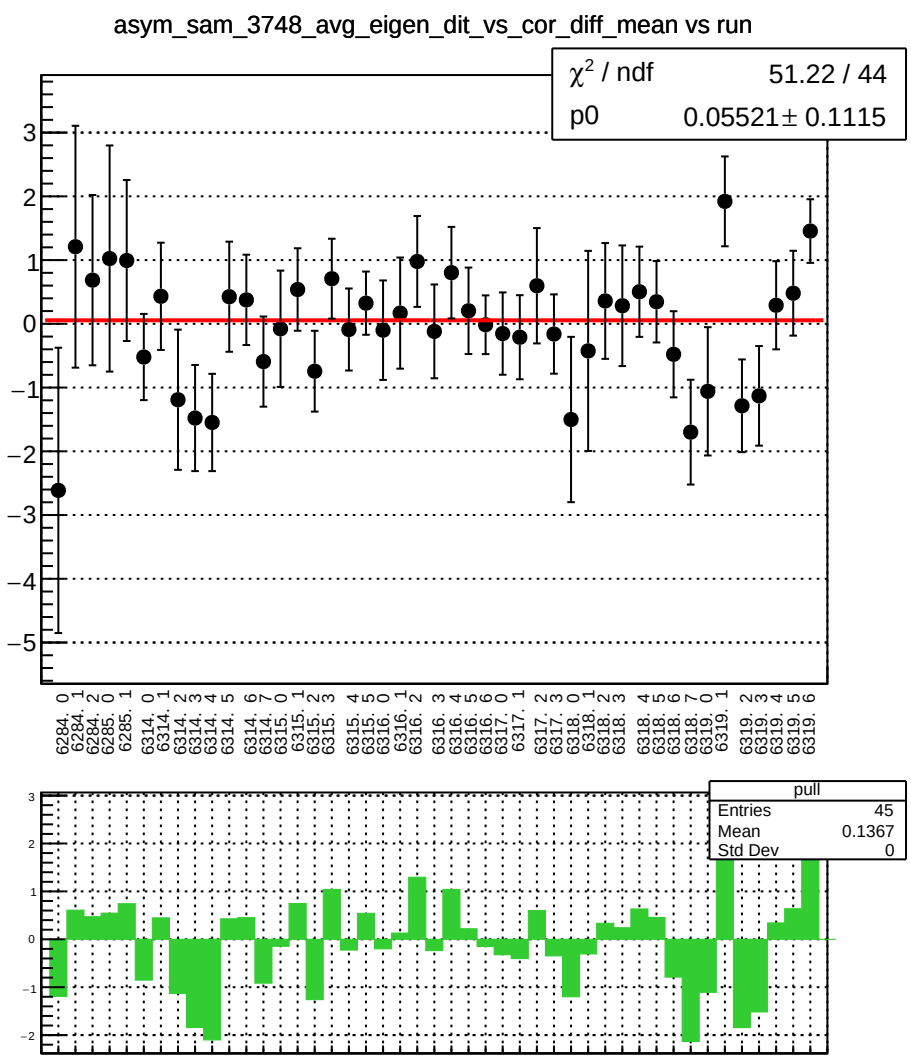

pull1D
Entries 45
Mean −0.06244
Std Dev 1.065

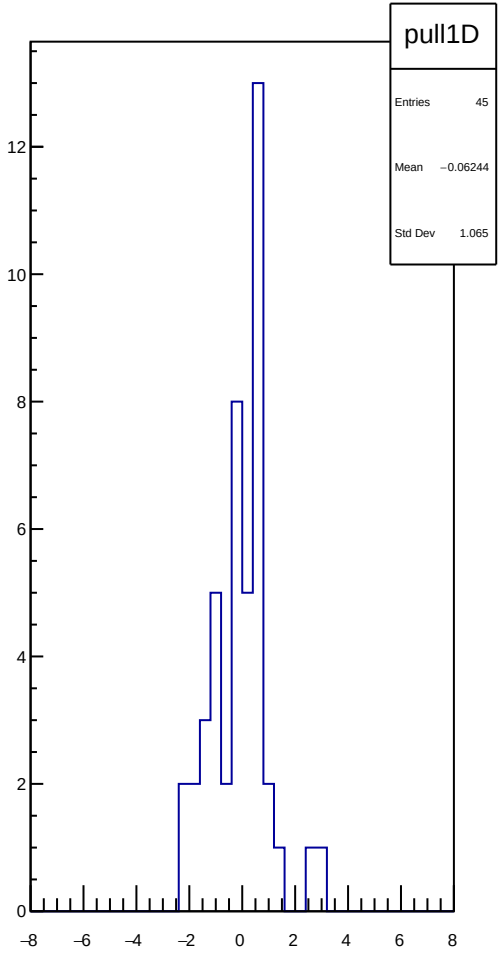

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.779e+04 / 44
p0 72.65 ± 0.07884
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

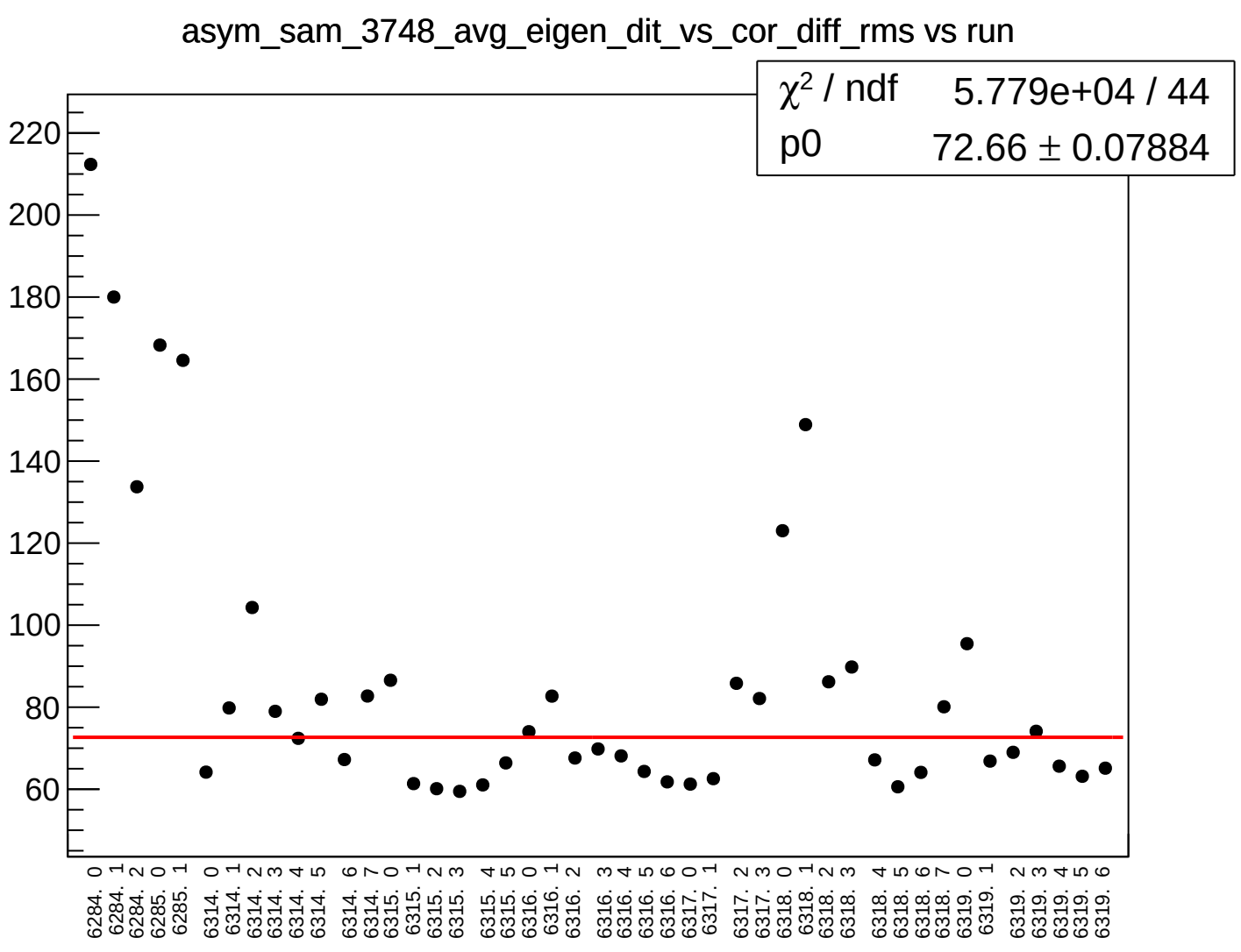

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.79 / 44
p0 6.307e−06 ± 6.822e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 7.028
Std Dev 66.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

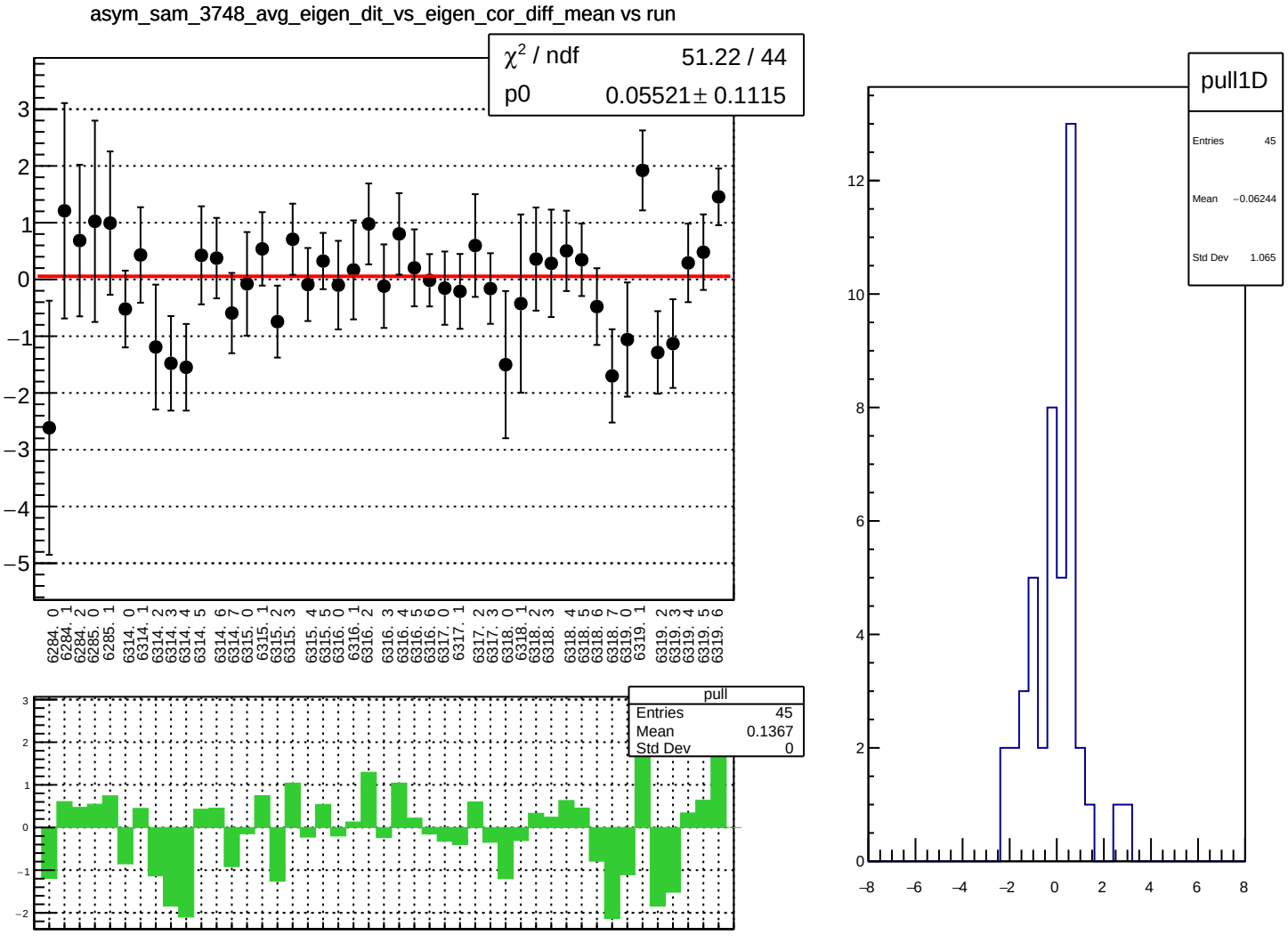

pull1D
Entries 45
Mean −0.009832
Std Dev 0.9976
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

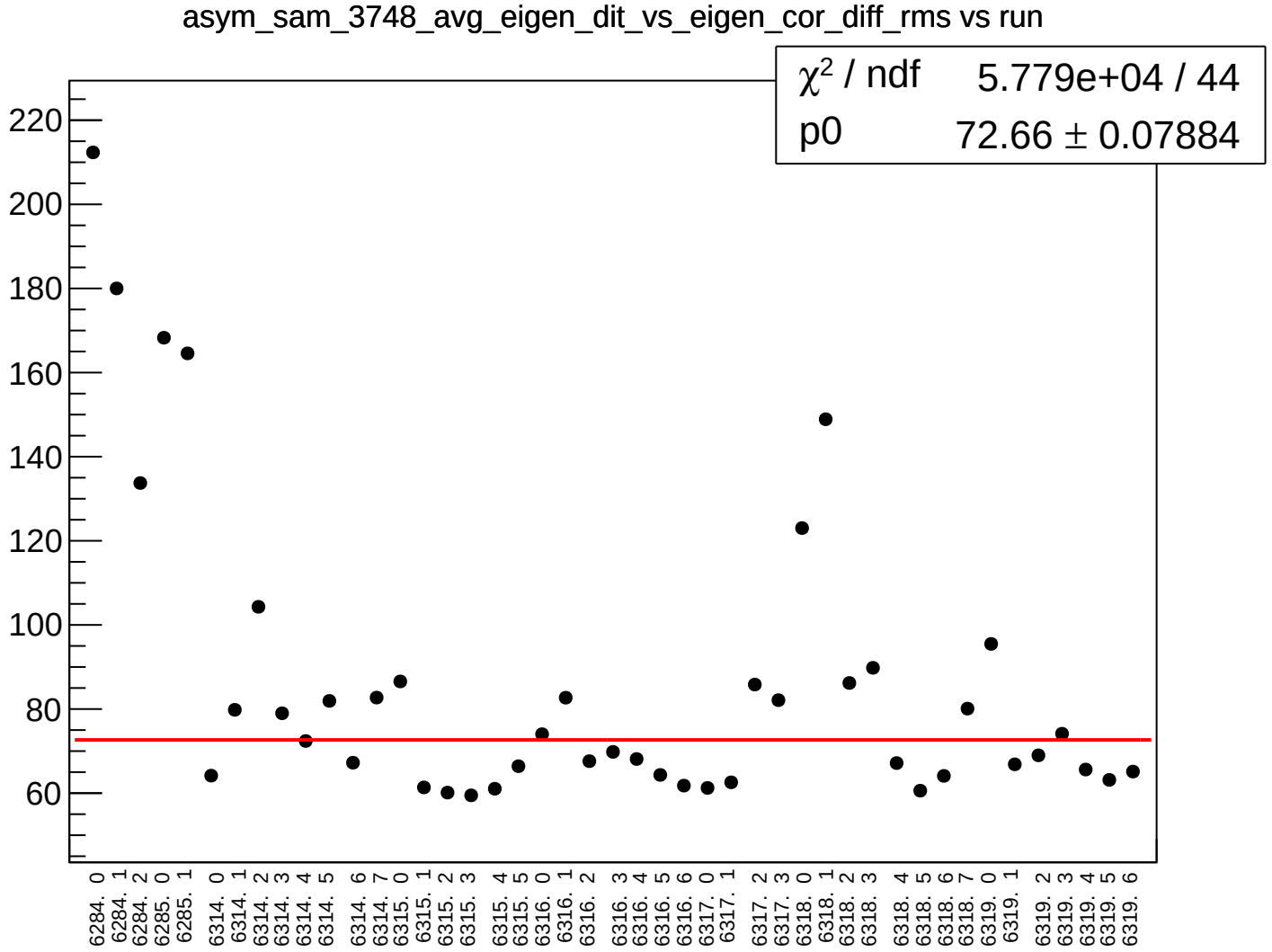

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1932 / 44
p0 0.004589 ± 4.824e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

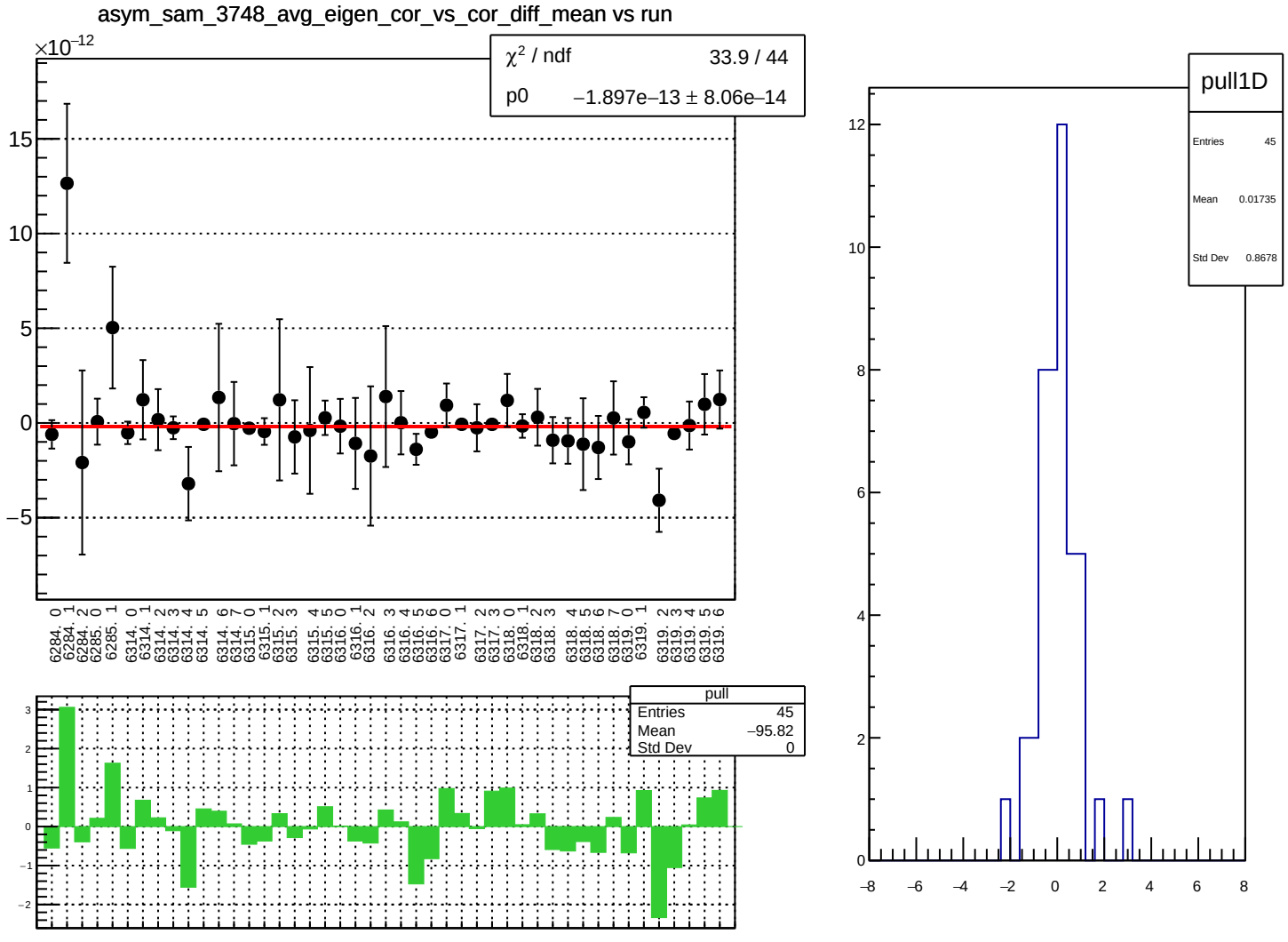

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.22 / 44
p0 0.05521± 0.1115
pull
Entries 45
Mean 0.1367
Std Dev 0

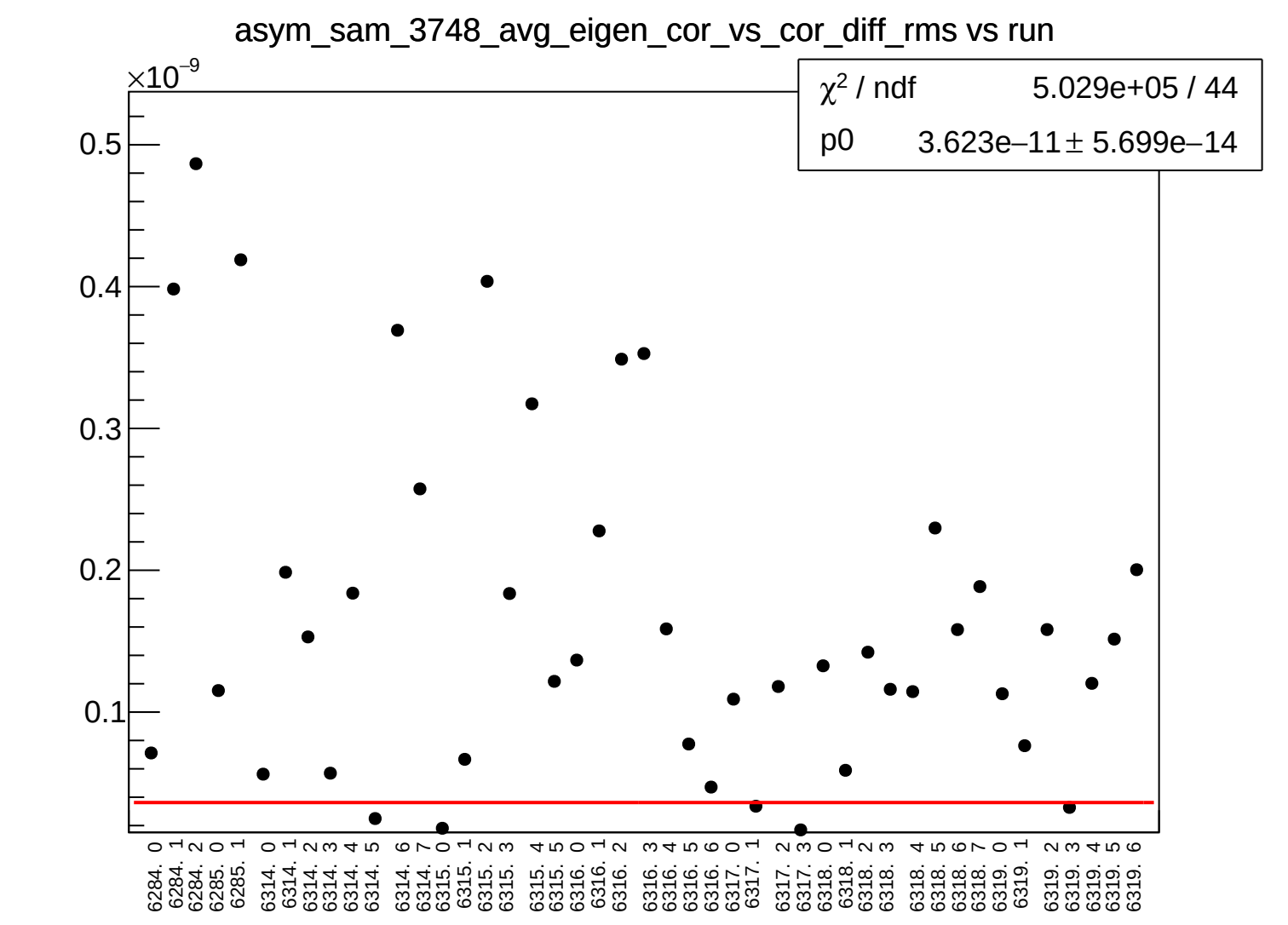

pull1D
Entries 45
Mean −0.06244
Std Dev 1.065

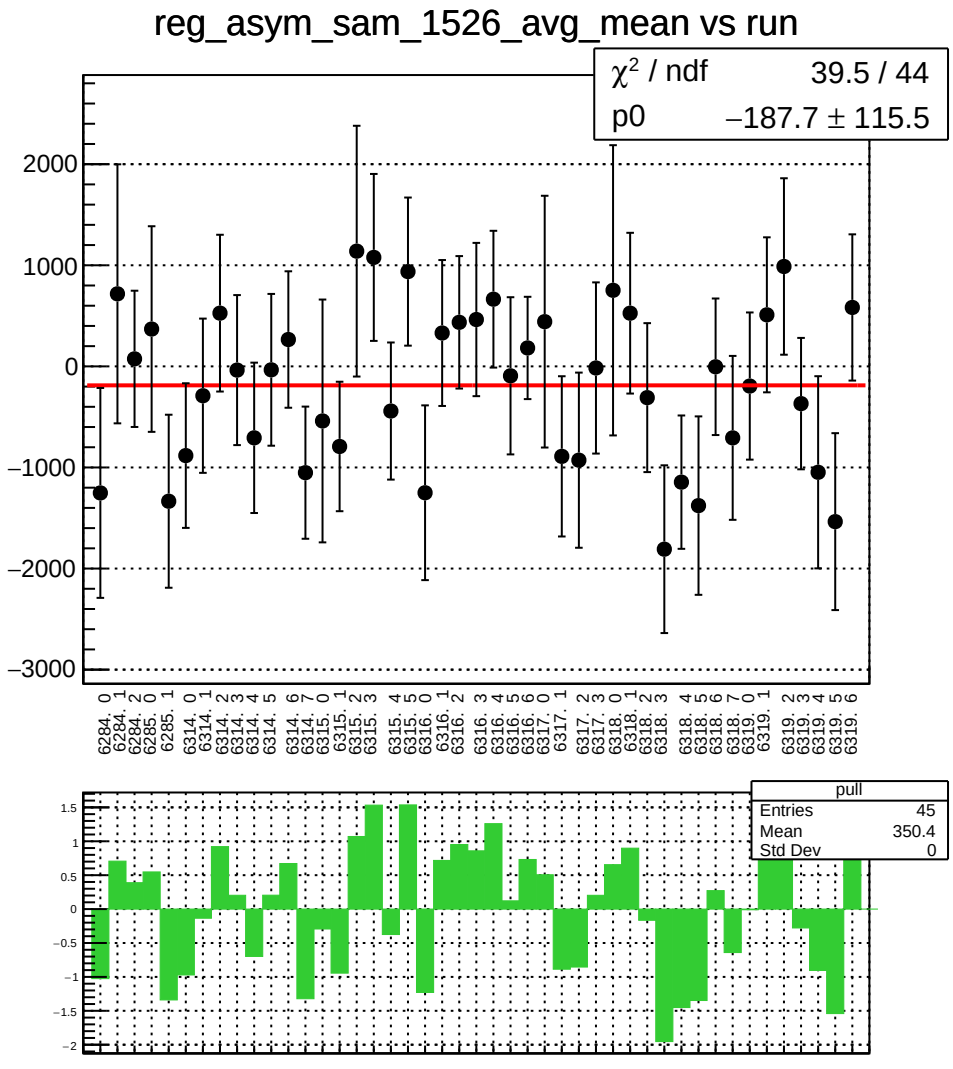

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.779e+04 / 44
p0 72.66 ± 0.07884
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

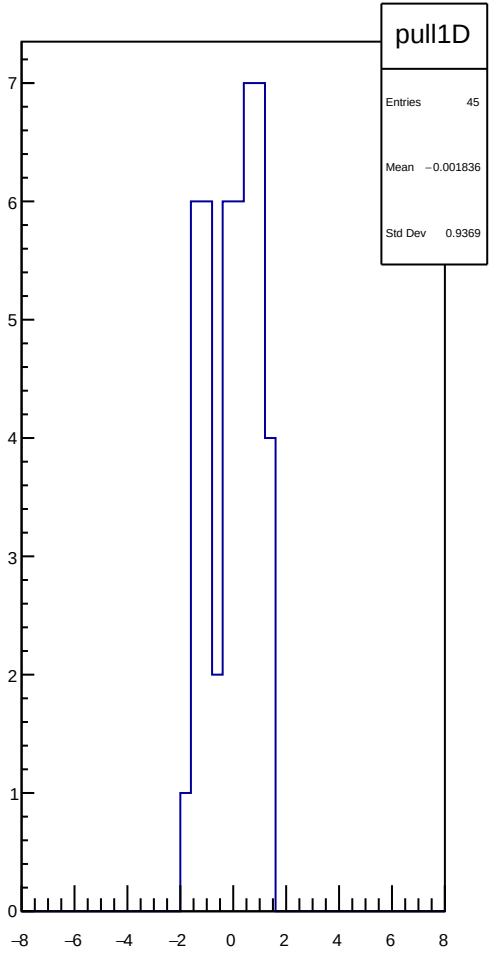

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.22 / 44
p0 0.05521± 0.1115
pull
Entries 45
Mean 0.1367
Std Dev 0
pull1D
Entries 45
Mean −0.06244
Std Dev 1.065

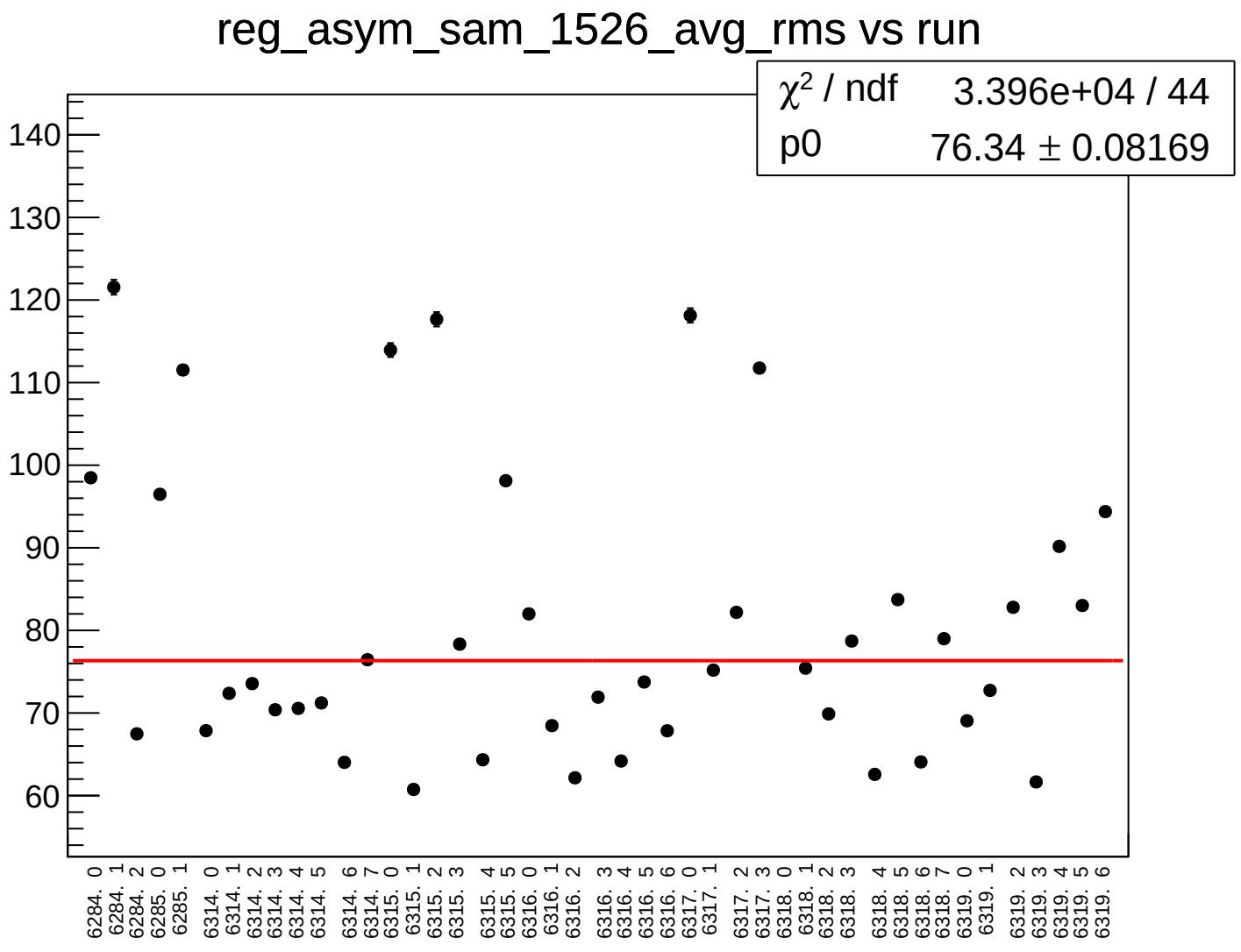

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.779e+04 / 44
p0 72.66 ± 0.07884
220
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.9 / 44
p0 −1.897e−13 ± 8.06e−14
15
10
5
0
−5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −95.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01735
Std Dev 0.8678
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.029e+05 / 44
p0 3.623e−11 ± 5.699e−14
0.5
0.4
0.3
0.2
0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_1526_avg_mean vs run
χ² / ndf 39.5 / 44
p0 −187.7 ± 115.5
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 350.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001836
Std Dev 0.9369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.396e+04 / 44
p0 76.34 ± 0.08169
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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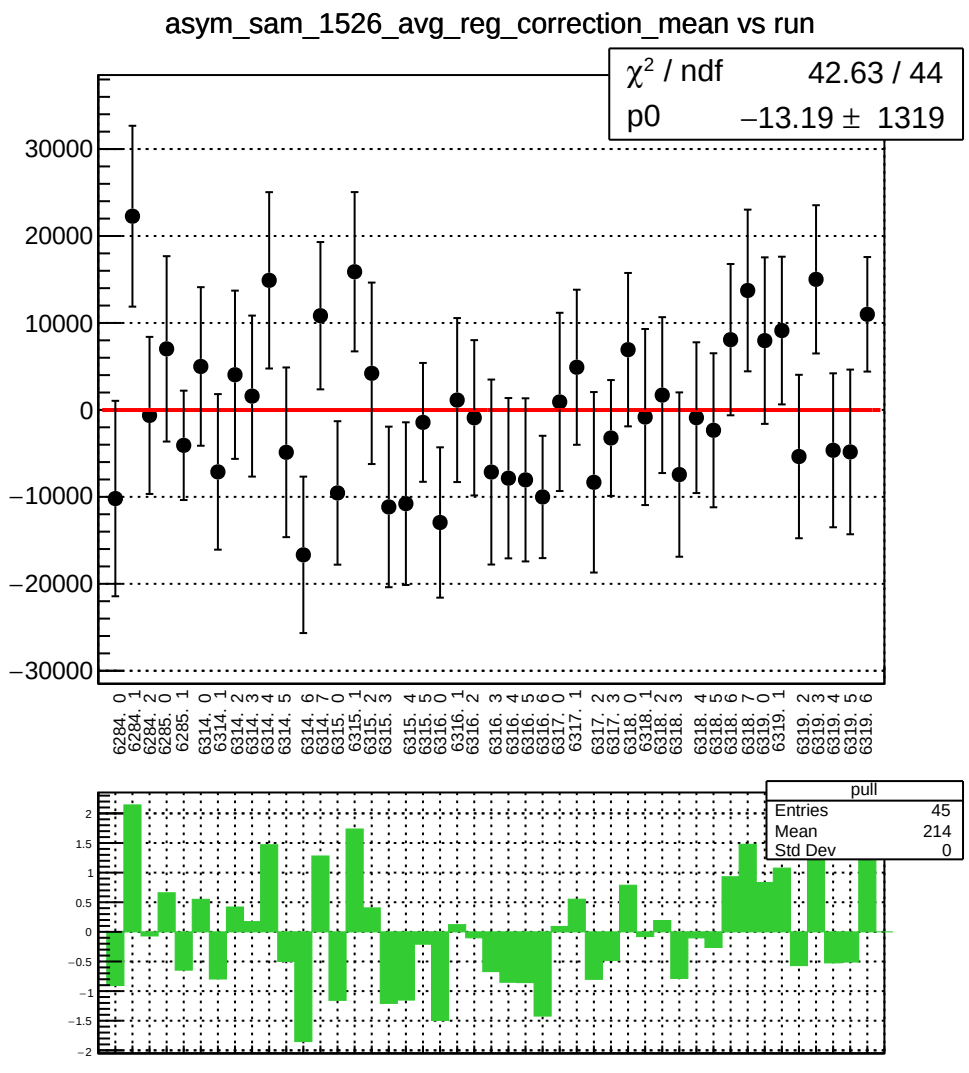
6319. 5
6319. 6


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 42.63 / 44
p0 −13.19 ± 1319
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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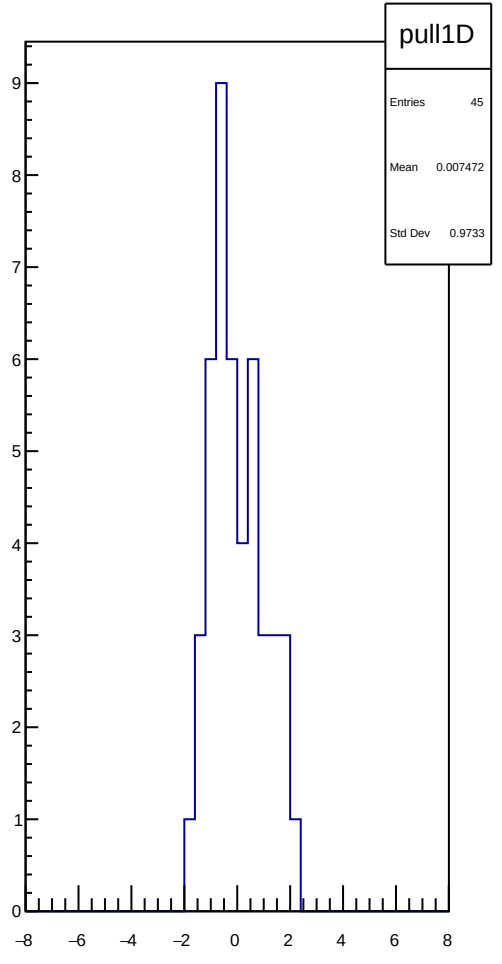
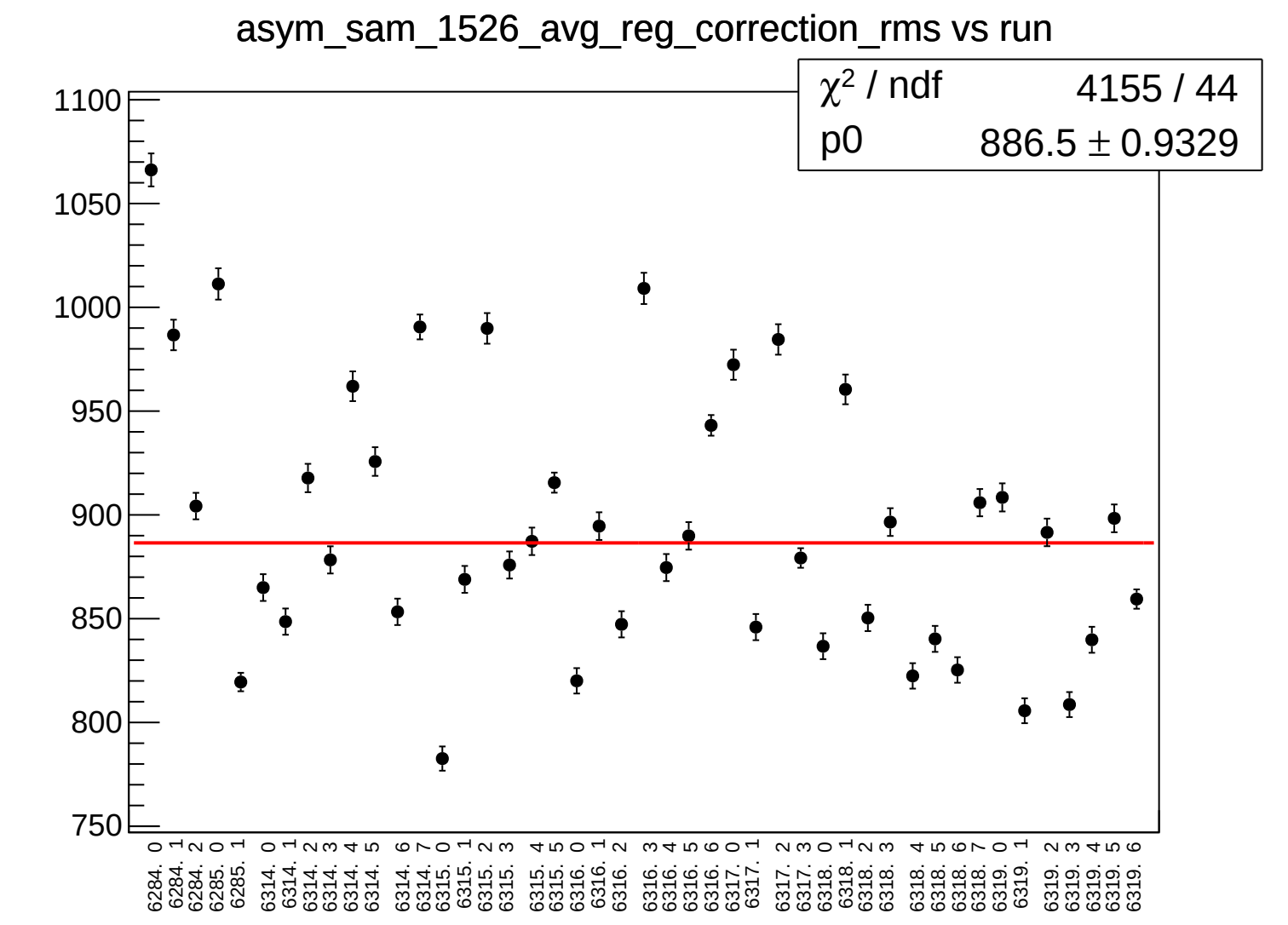
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 214
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007472
Std Dev 0.9733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 4155 / 44
p0 886.5 ± 0.9329
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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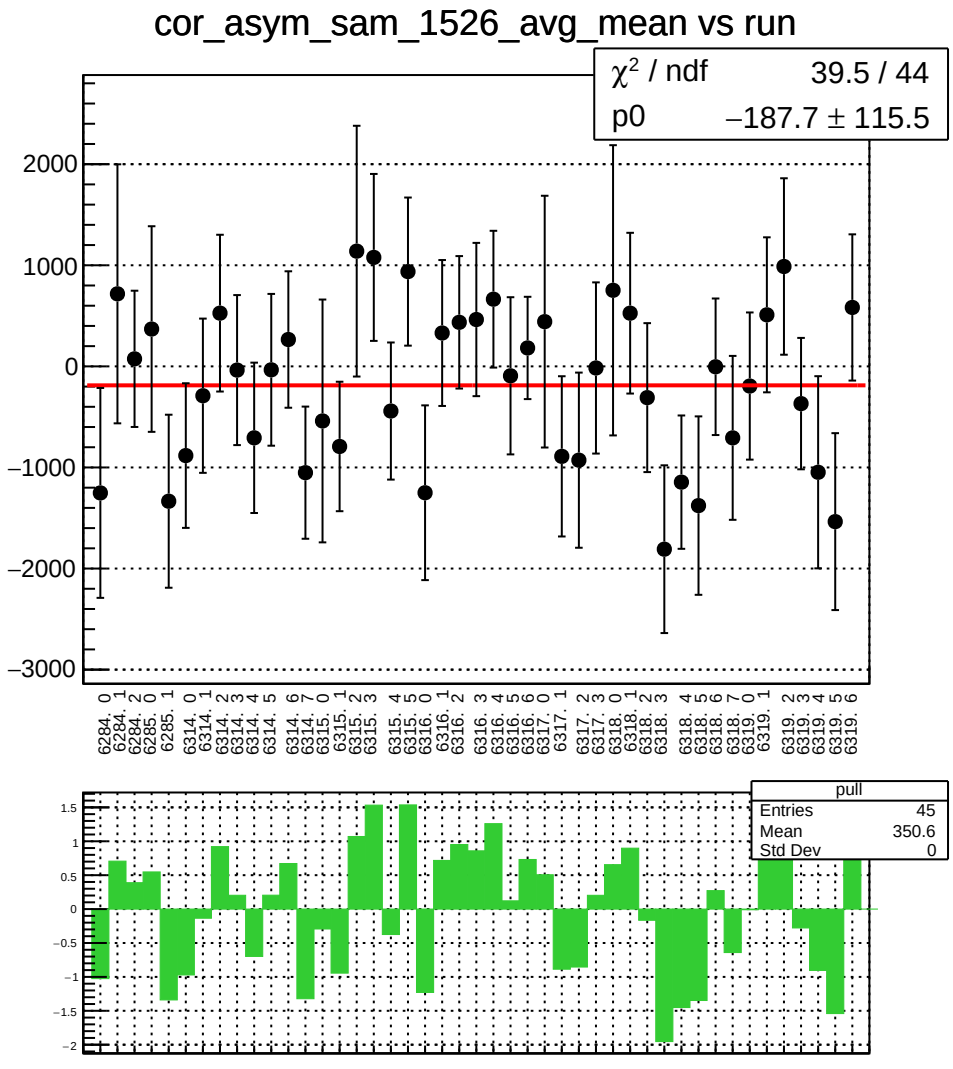
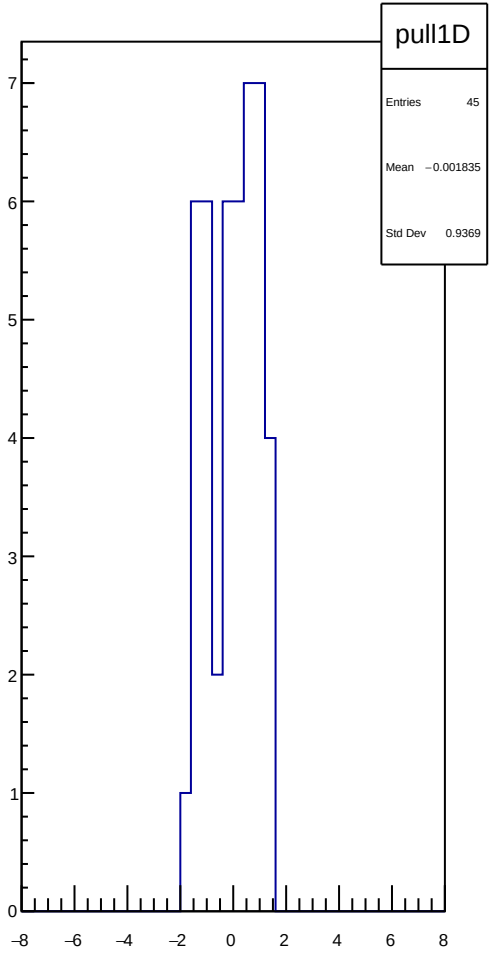
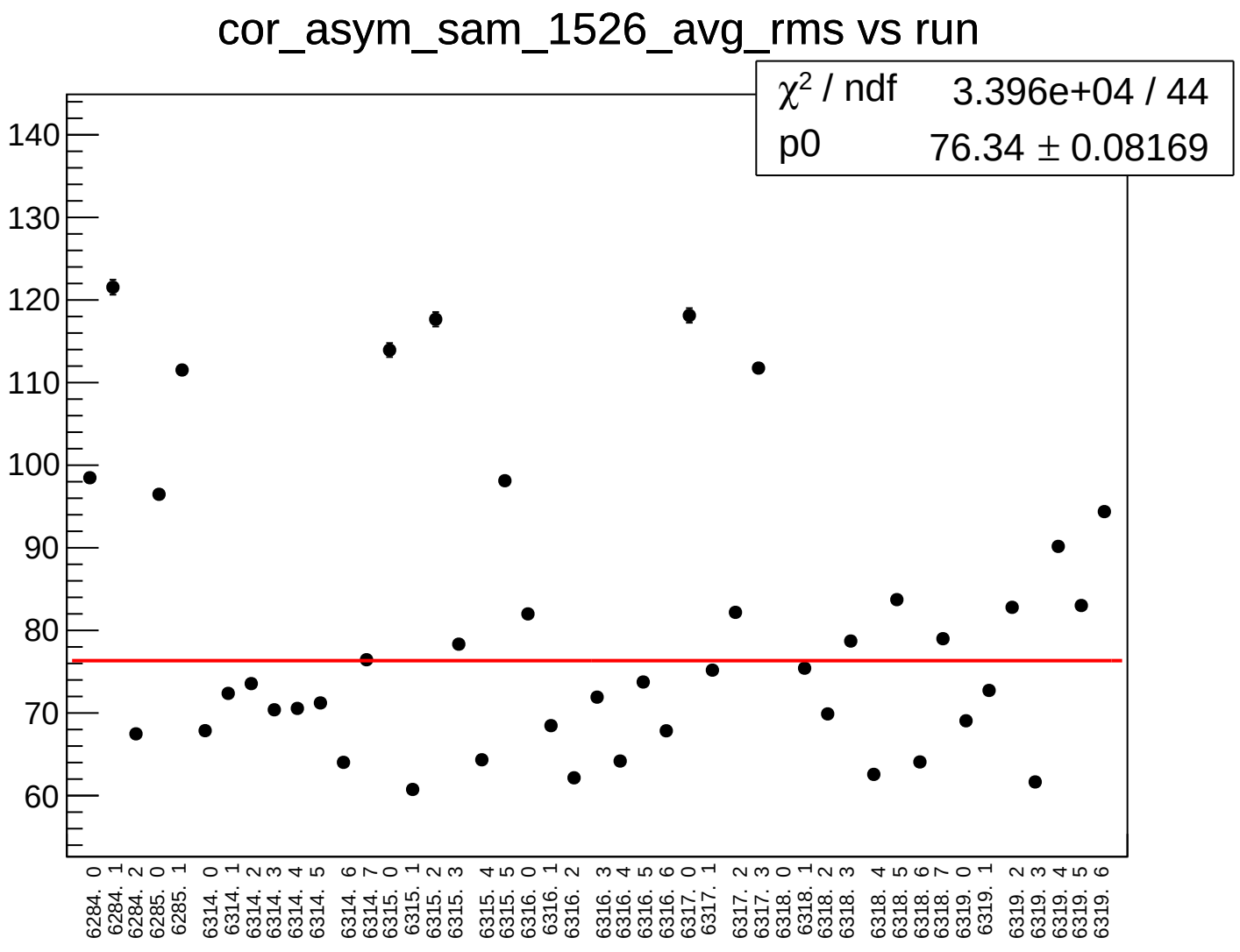
6319. 5
6319. 6


cor_asym_sam_1526_avg_mean vs run
χ² / ndf 39.5 / 44
p0 −187.7 ± 115.5
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 350.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001835
Std Dev 0.9369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.396e+04 / 44
p0 76.34 ± 0.08169
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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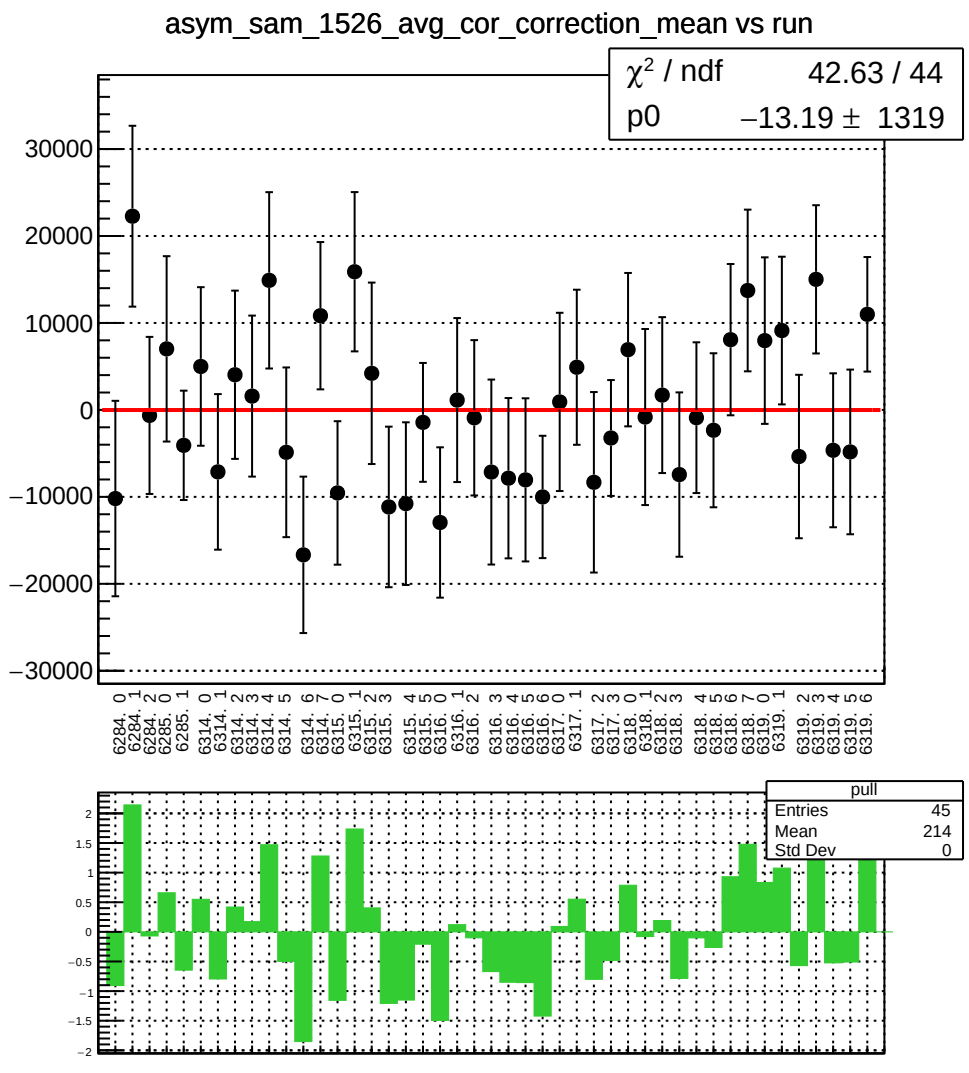
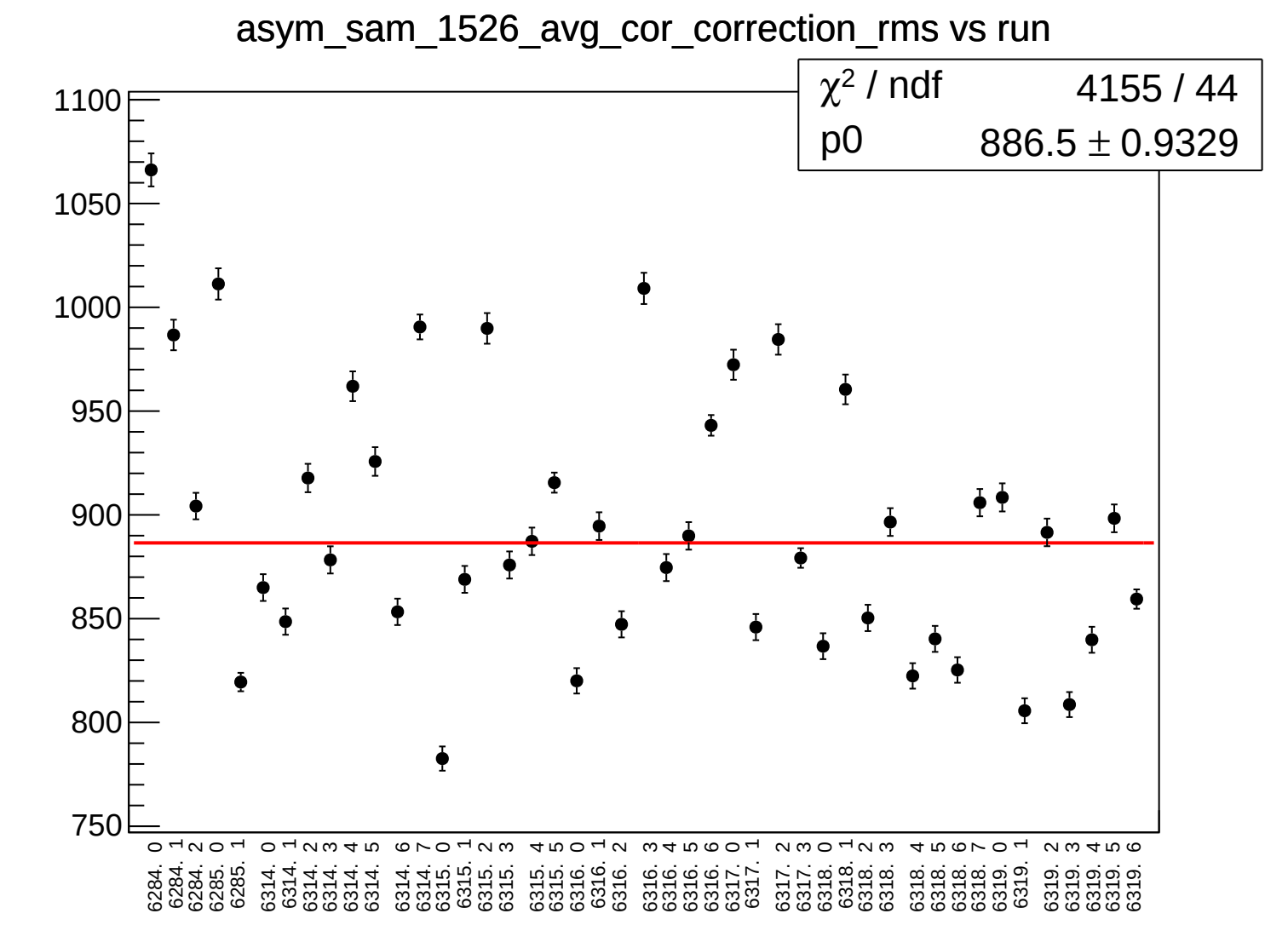
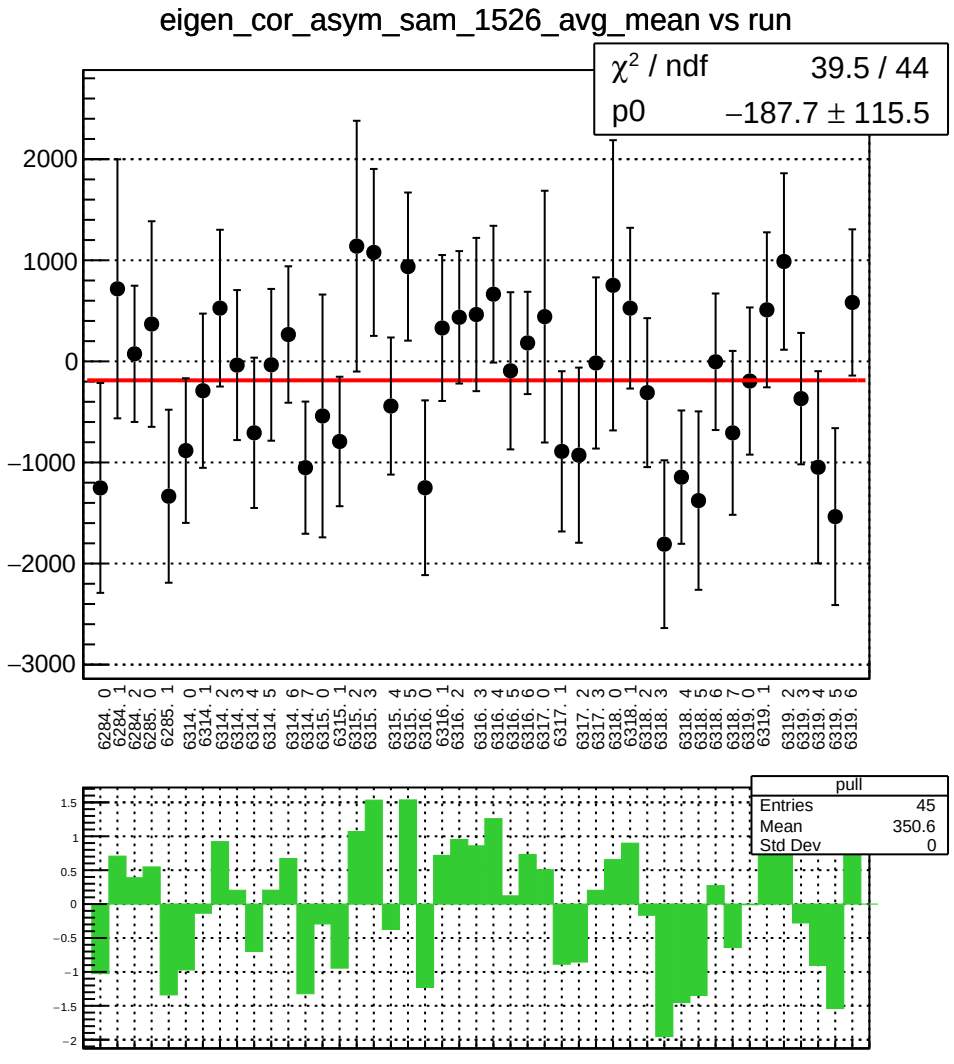
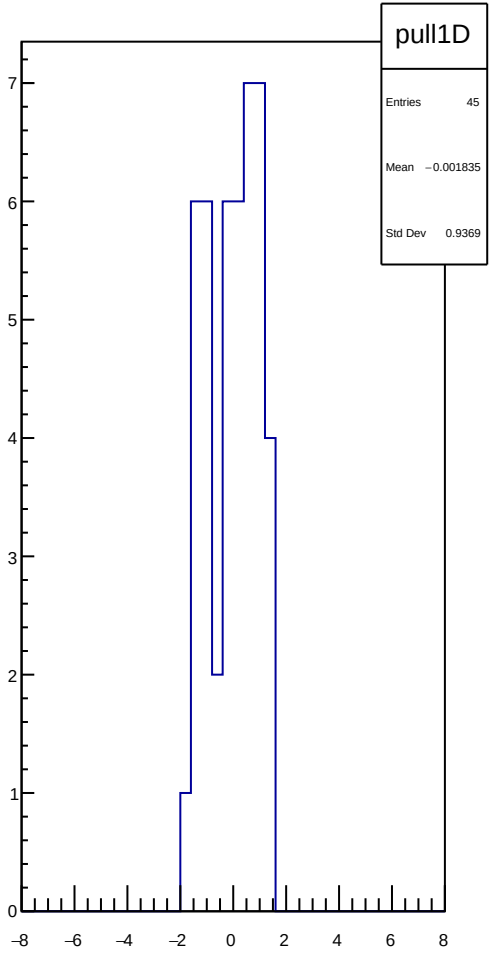
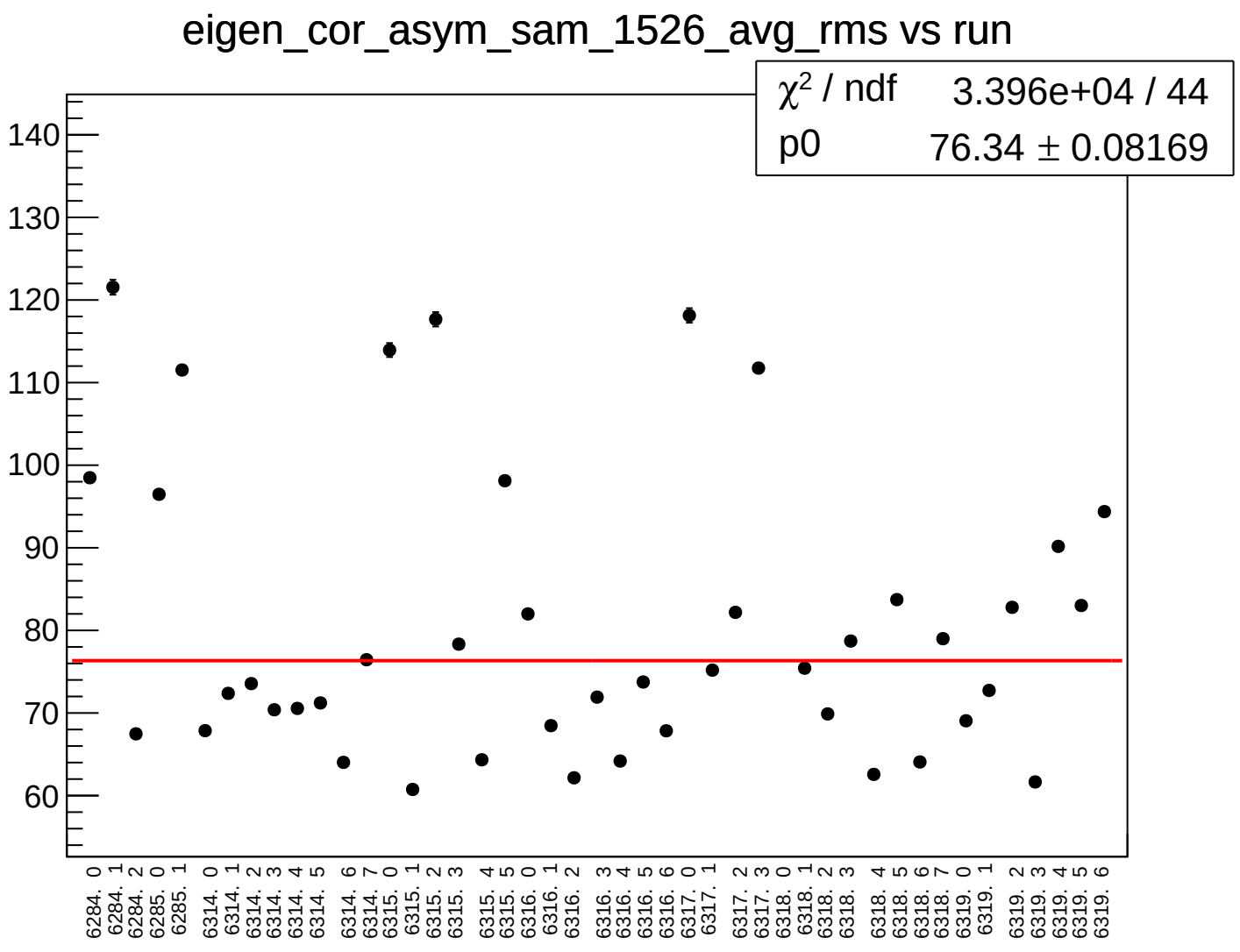
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 42.63 / 44
p0 −13.19 ± 1319
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 214
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007472
Std Dev 0.9733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 4155 / 44
p0 886.5 ± 0.9329
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 39.5 / 44
p0 −187.7 ± 115.5
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 350.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.001835
Std Dev 0.9369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.396e+04 / 44
p0 76.34 ± 0.08169
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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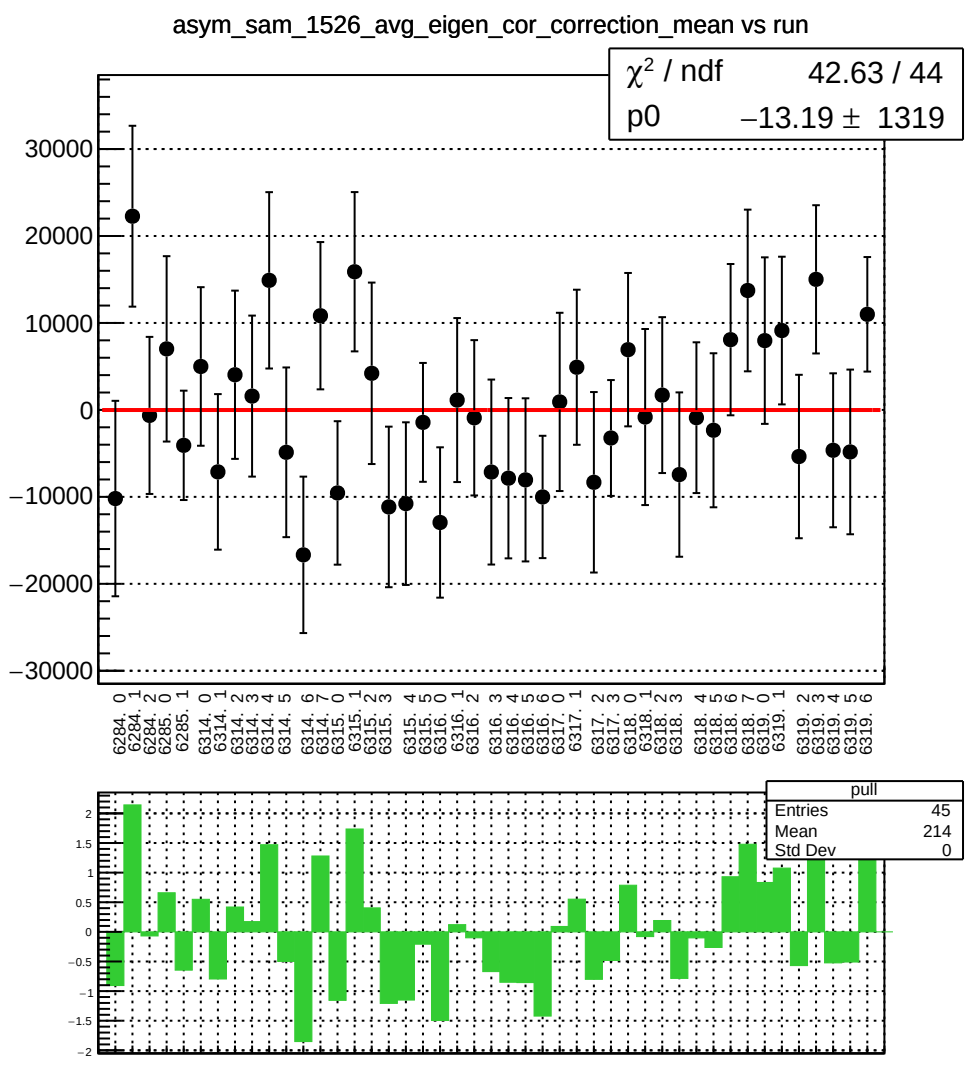
6319. 5
6319. 6


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 42.63 / 44
p0 −13.19 ± 1319
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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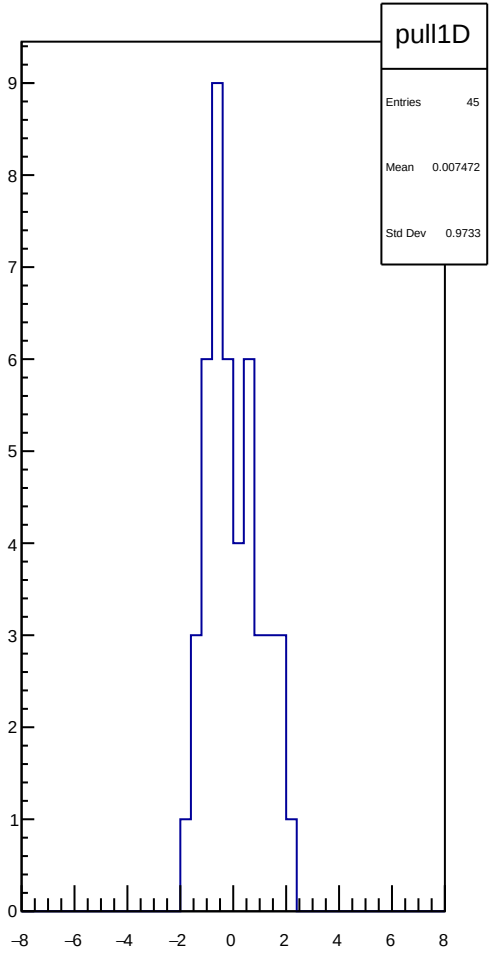
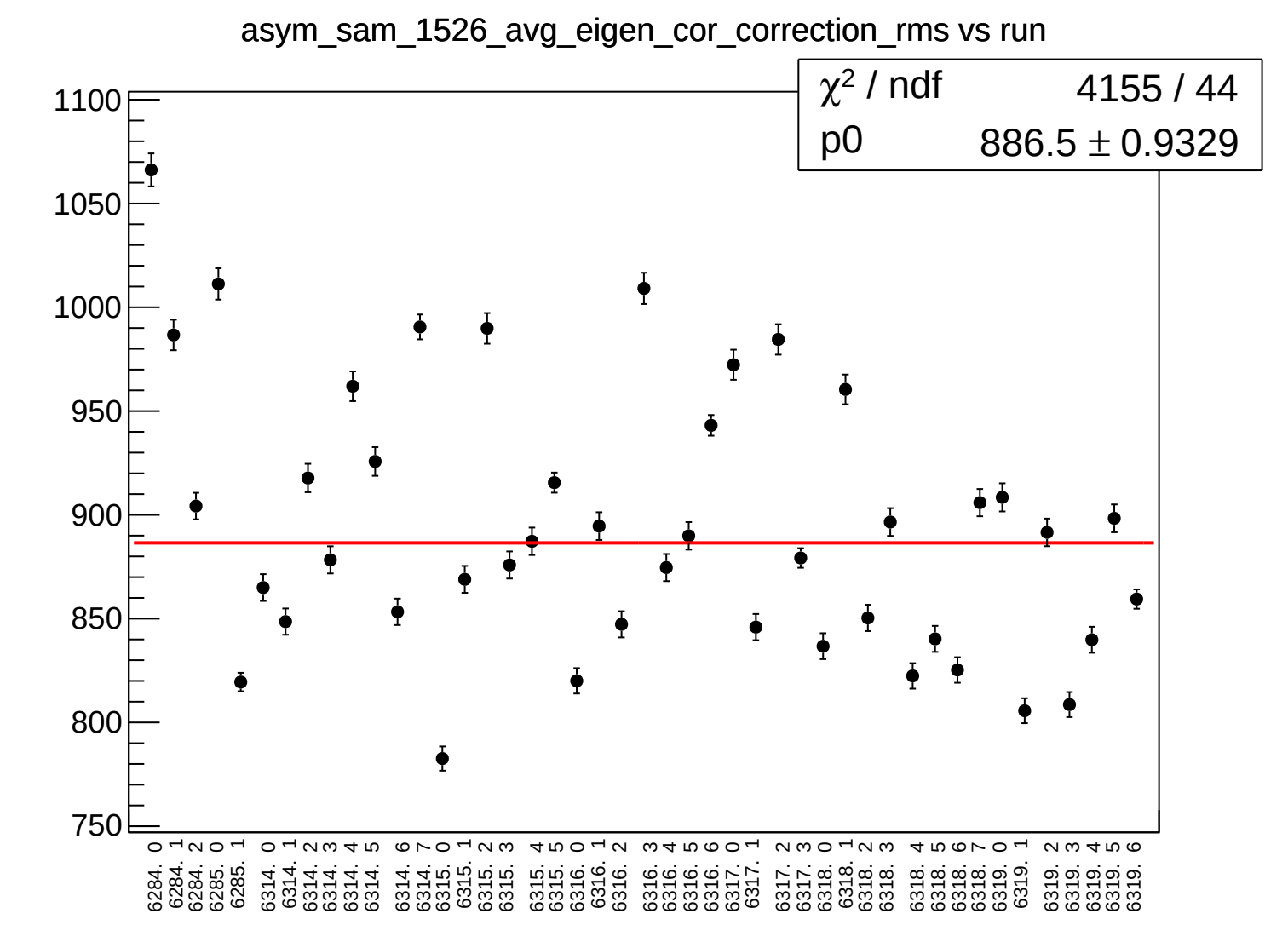
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 214
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007472
Std Dev 0.9733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 4155 / 44
p0 886.5 ± 0.9329
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 7
6319. 0
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6319. 2
6319. 3
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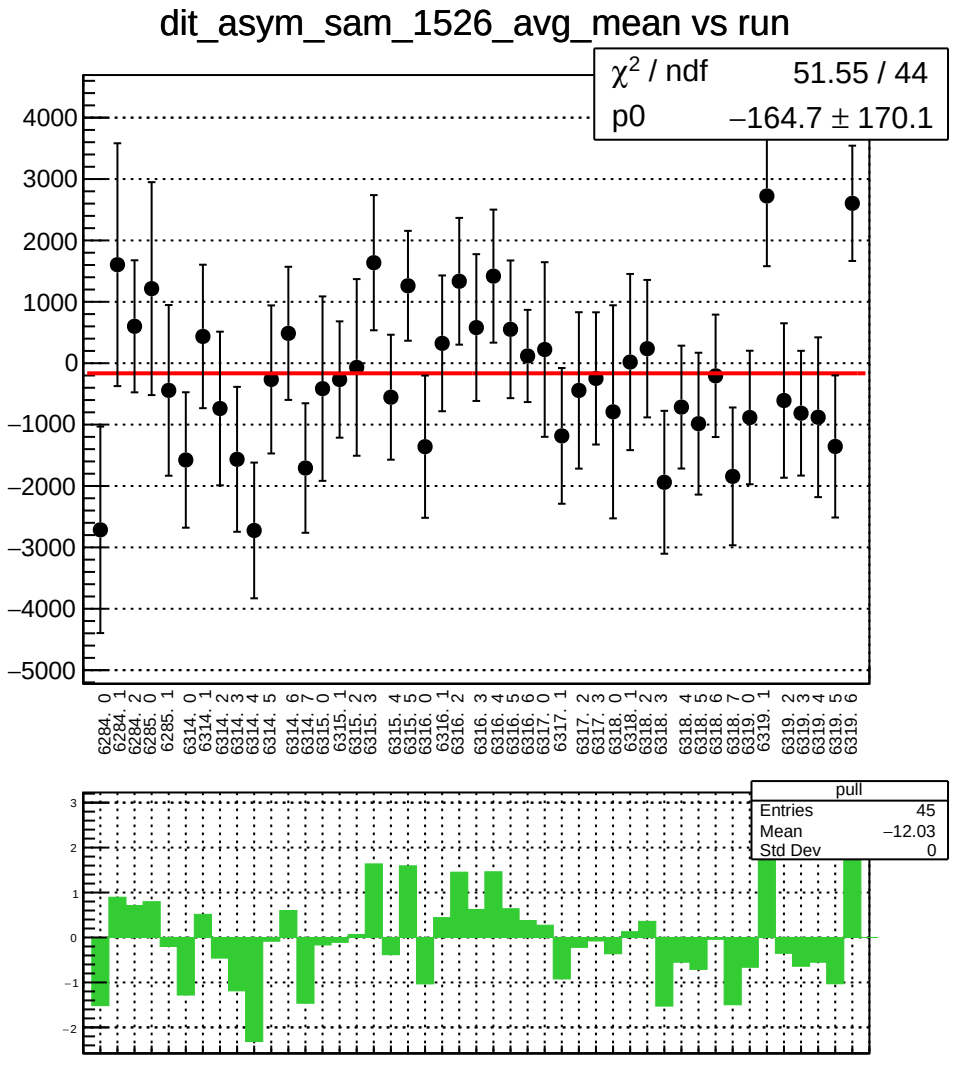
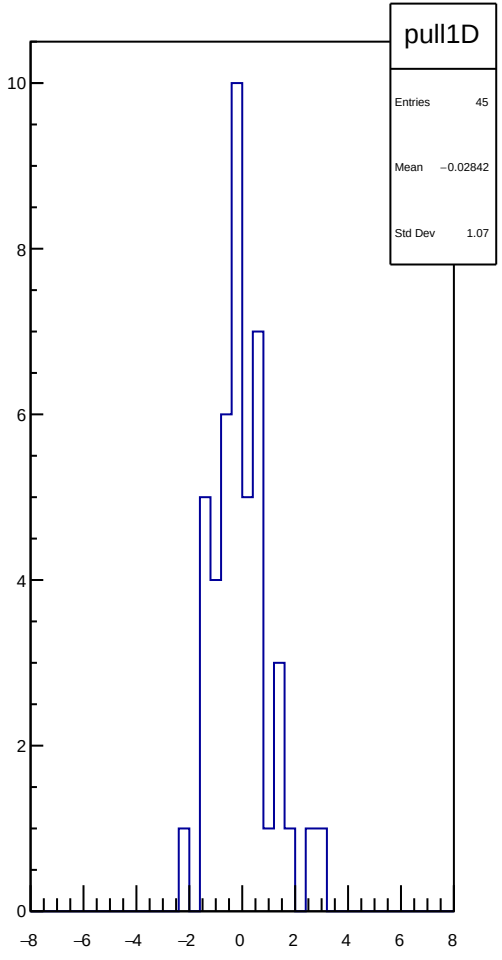
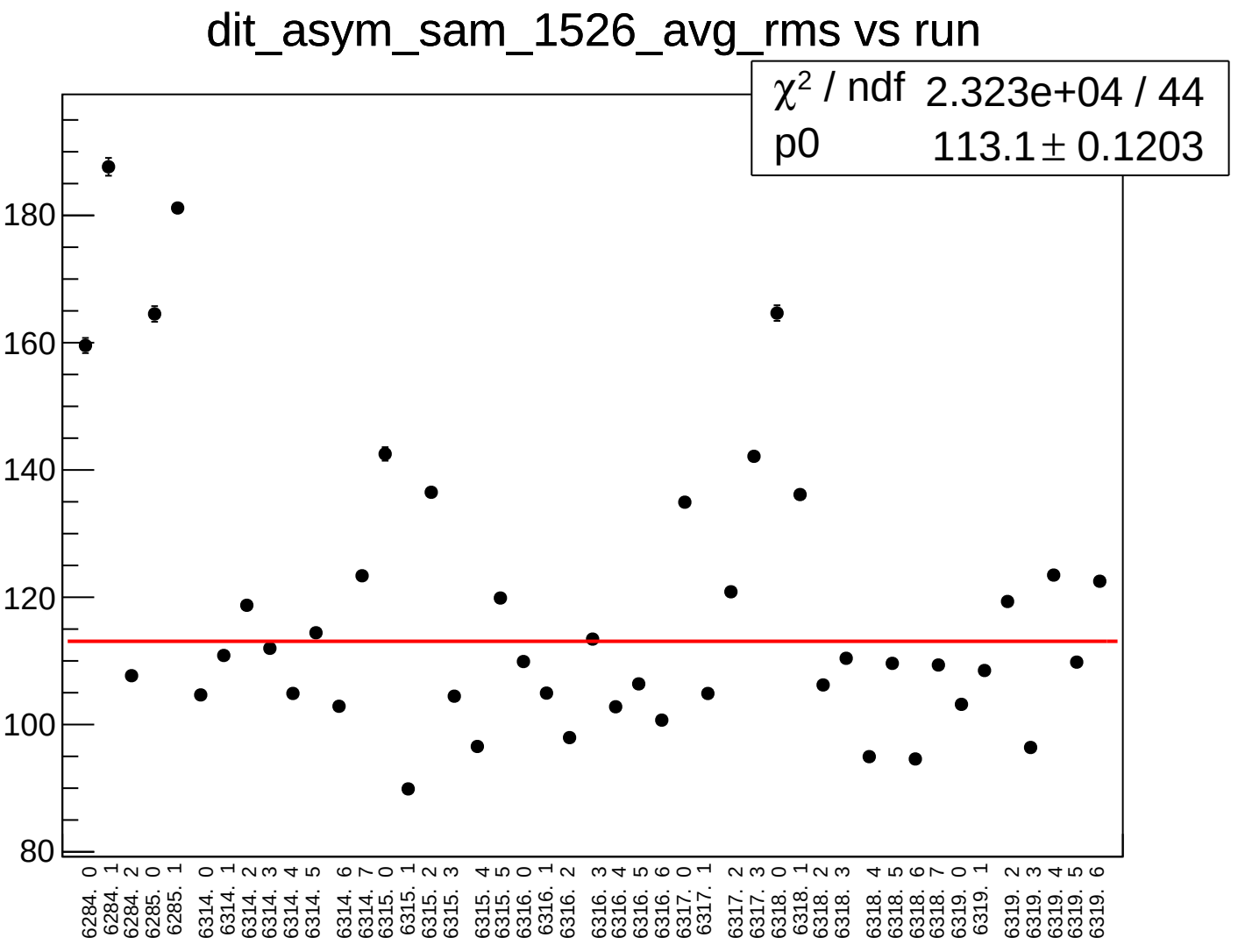
6319. 5
6319. 6


dit_asym_sam_1526_avg_mean vs run
χ² / ndf 51.55 / 44
p0 −164.7 ± 170.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −12.03
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02842
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.323e+04 / 44
p0 113.1 ± 0.1203
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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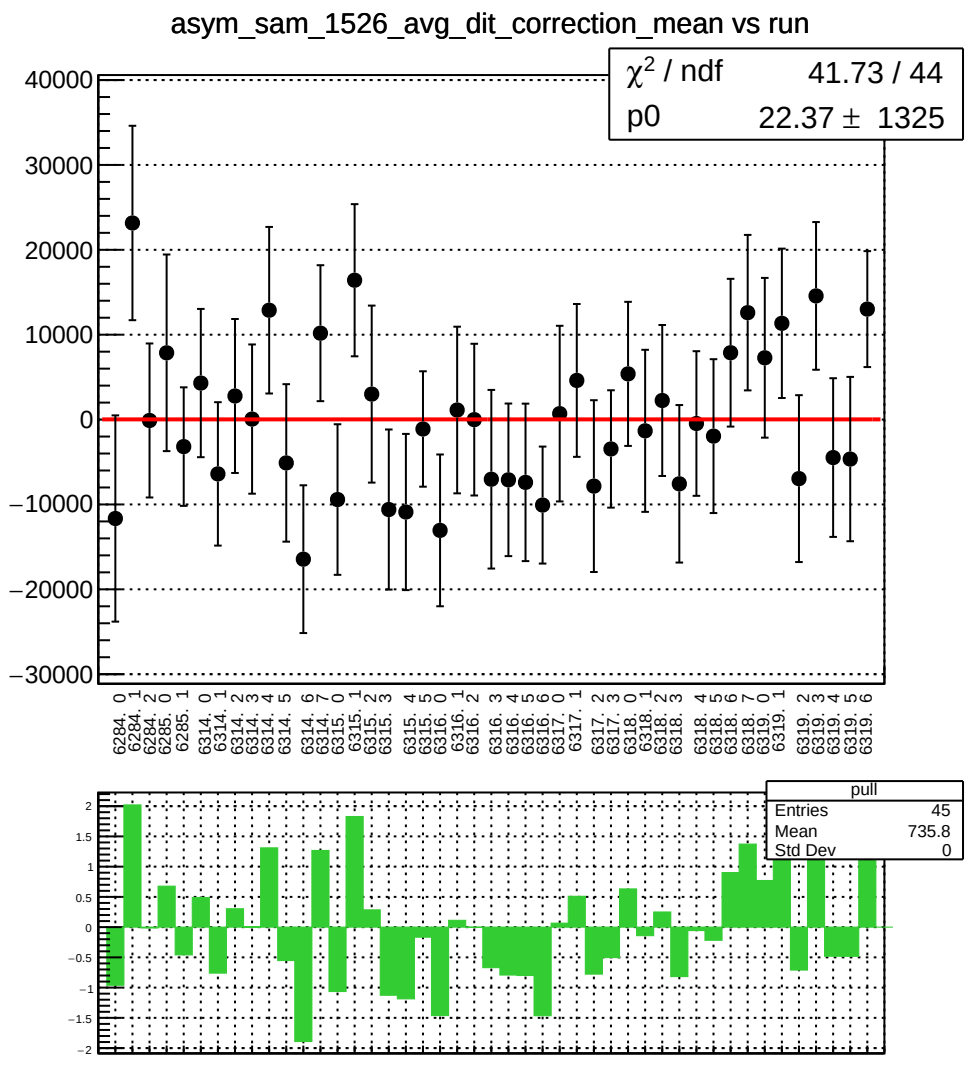
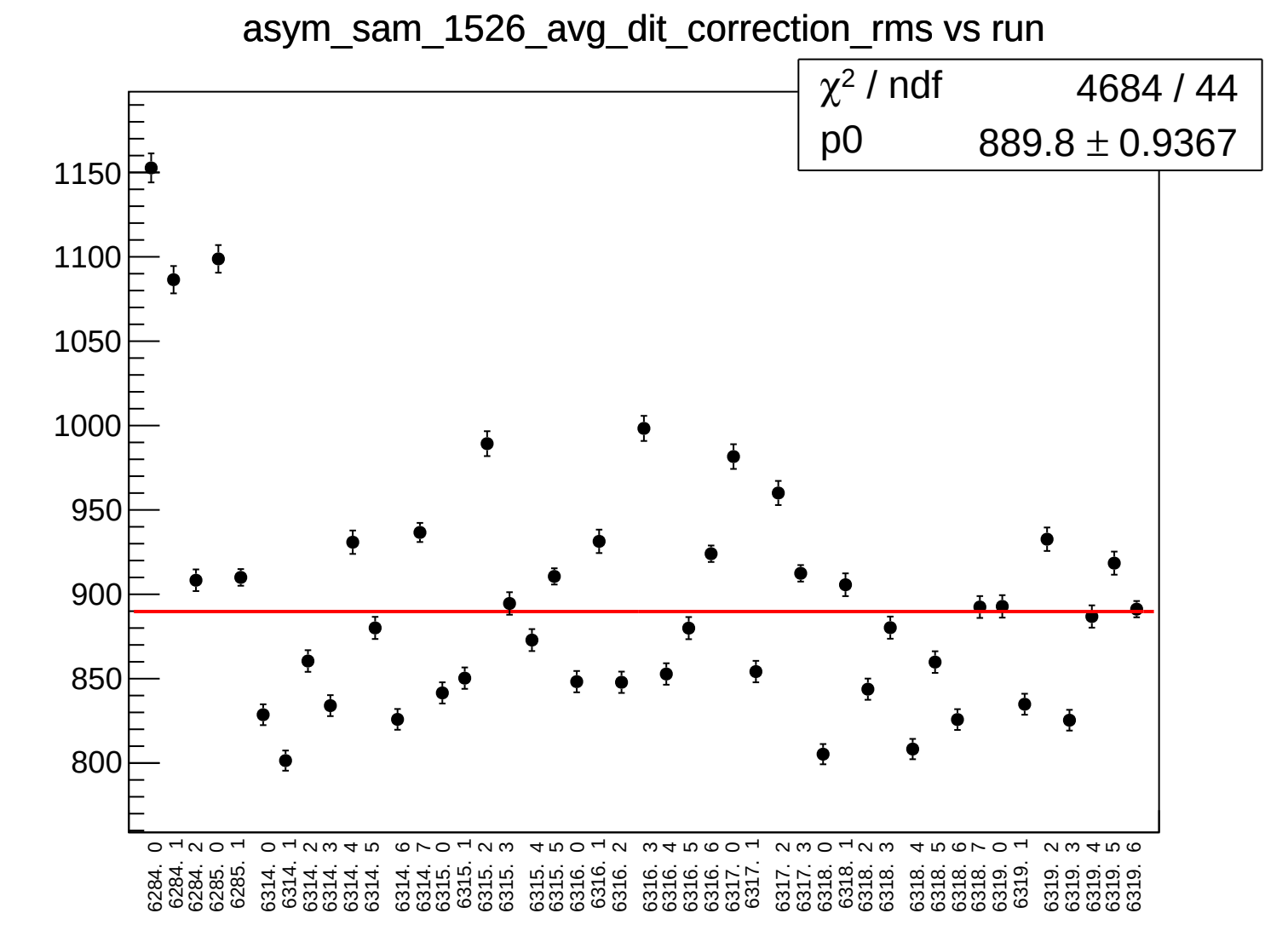
6319. 5
6319. 6


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 41.73 / 44
p0 22.37 ± 1325
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 735.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002241
Std Dev 0.963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 4684 / 44
p0 889.8 ± 0.9367
1150
1100
1050
1000
950
900
850
800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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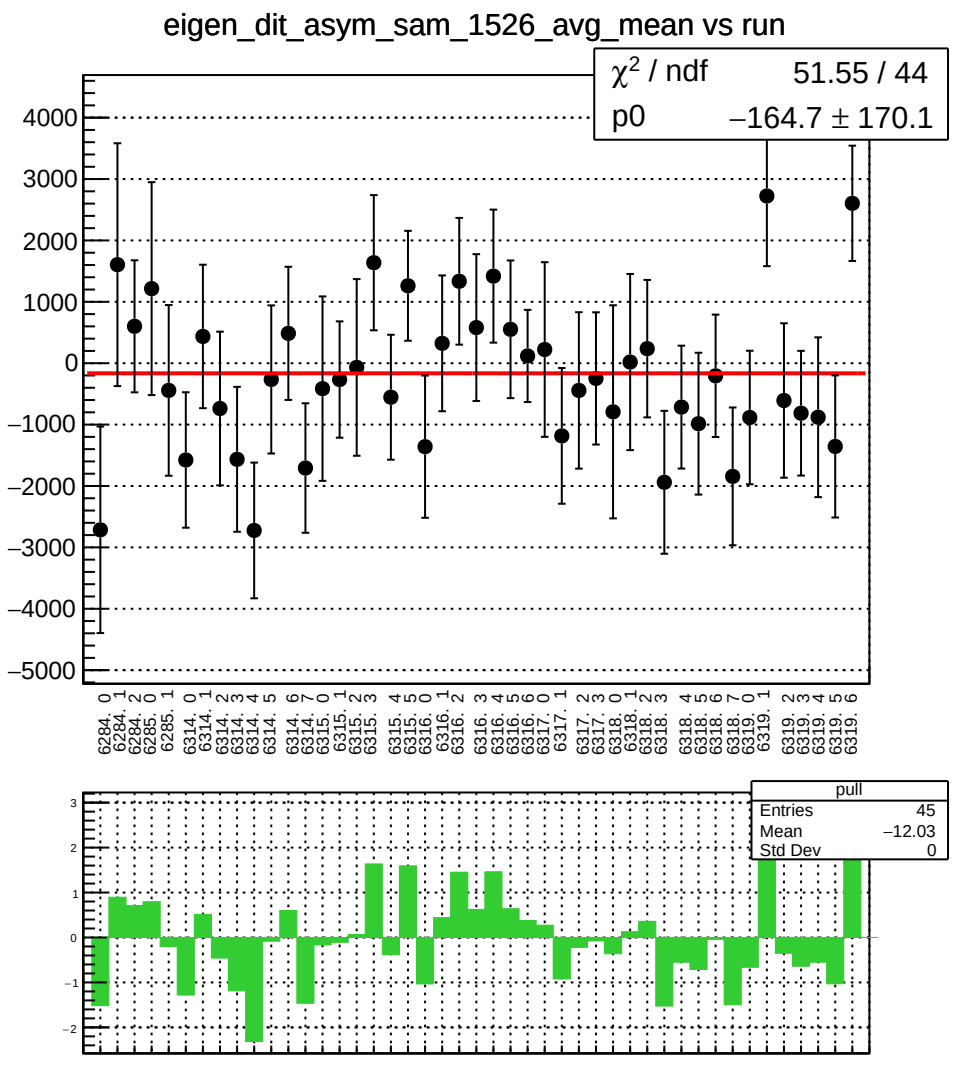
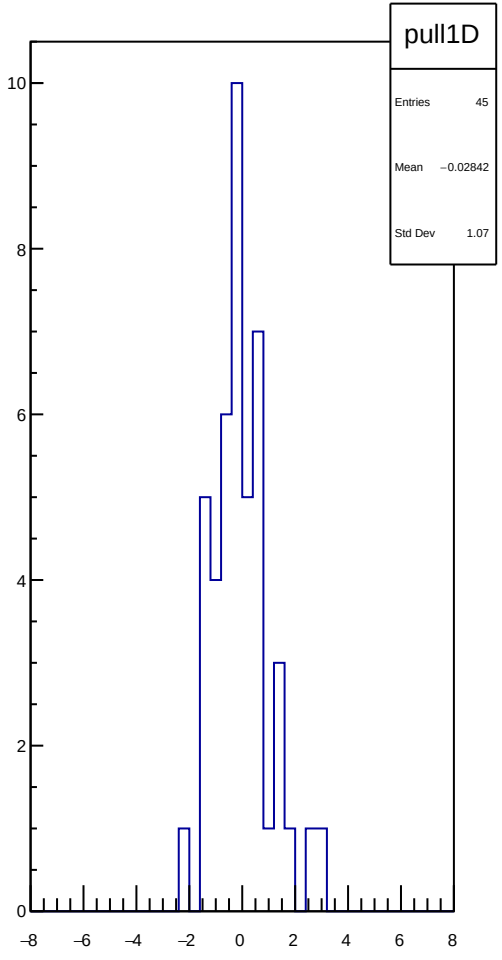
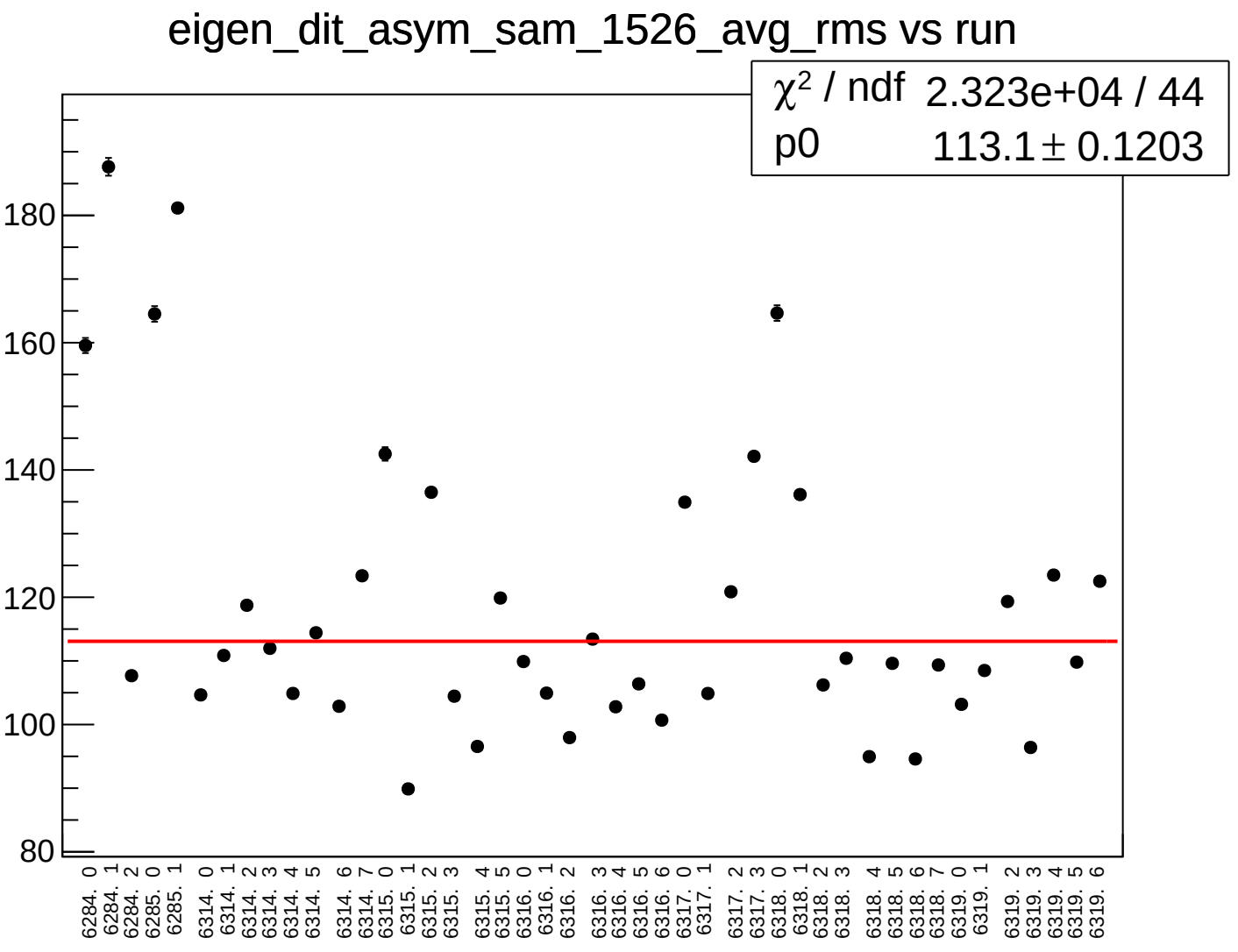
6319. 5
6319. 6


eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 51.55 / 44
p0 −164.7 ± 170.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −12.03
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02842
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.323e+04 / 44
p0 113.1 ± 0.1203
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 4
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6318. 6
6318. 7
6319. 0
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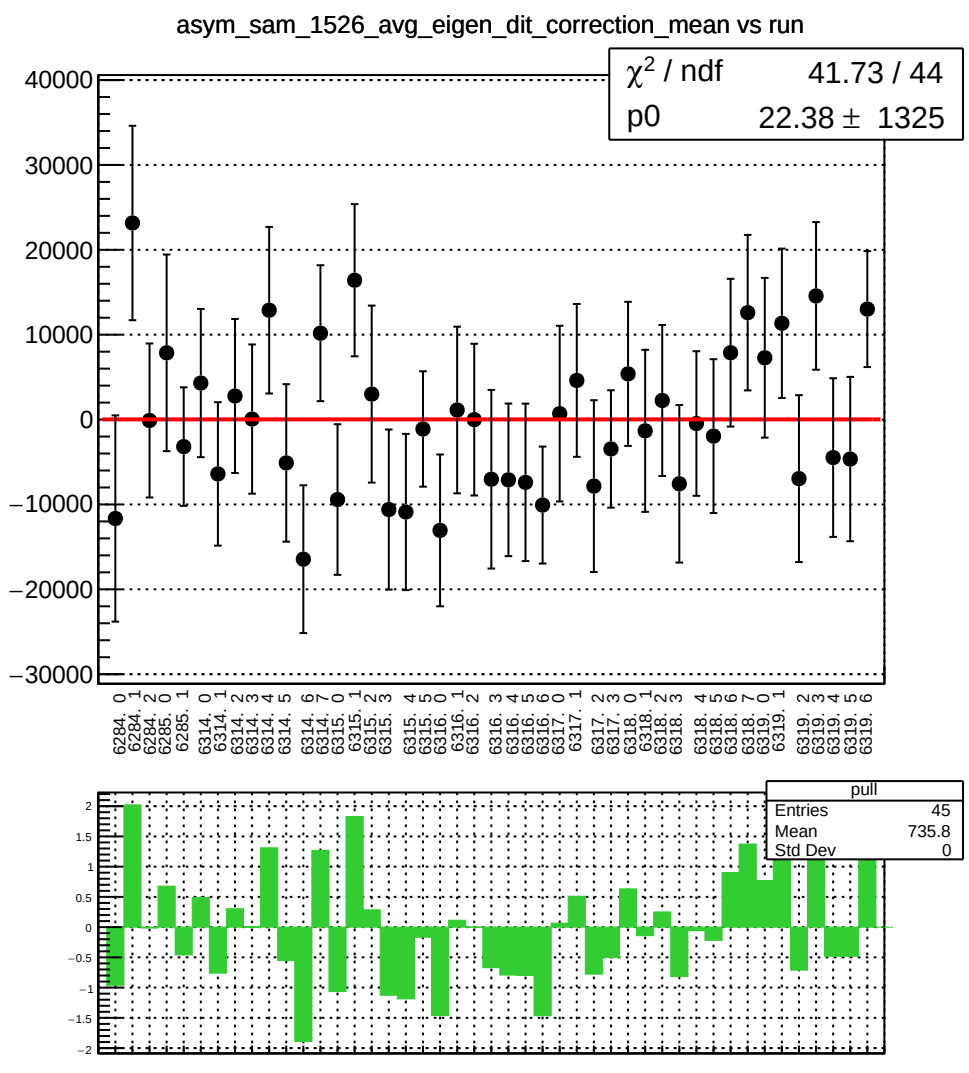
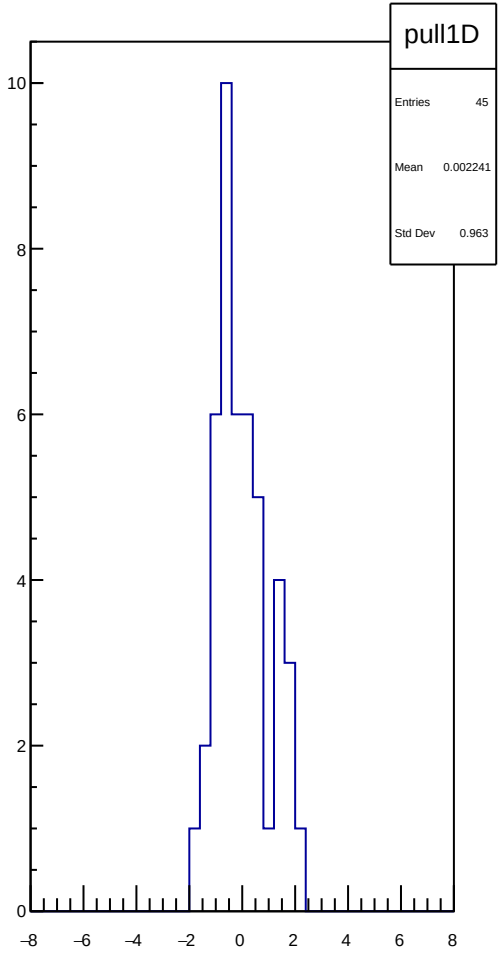
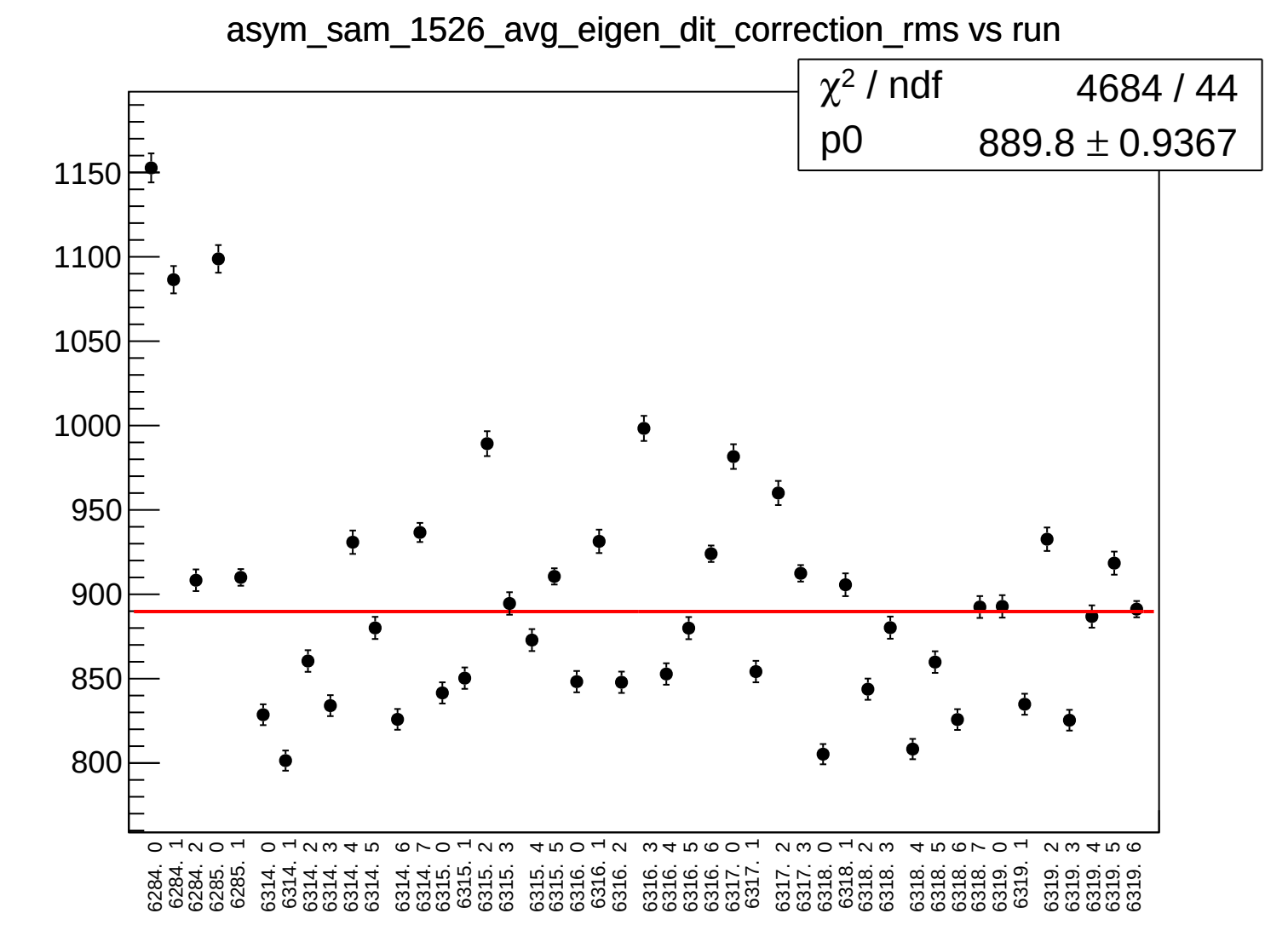
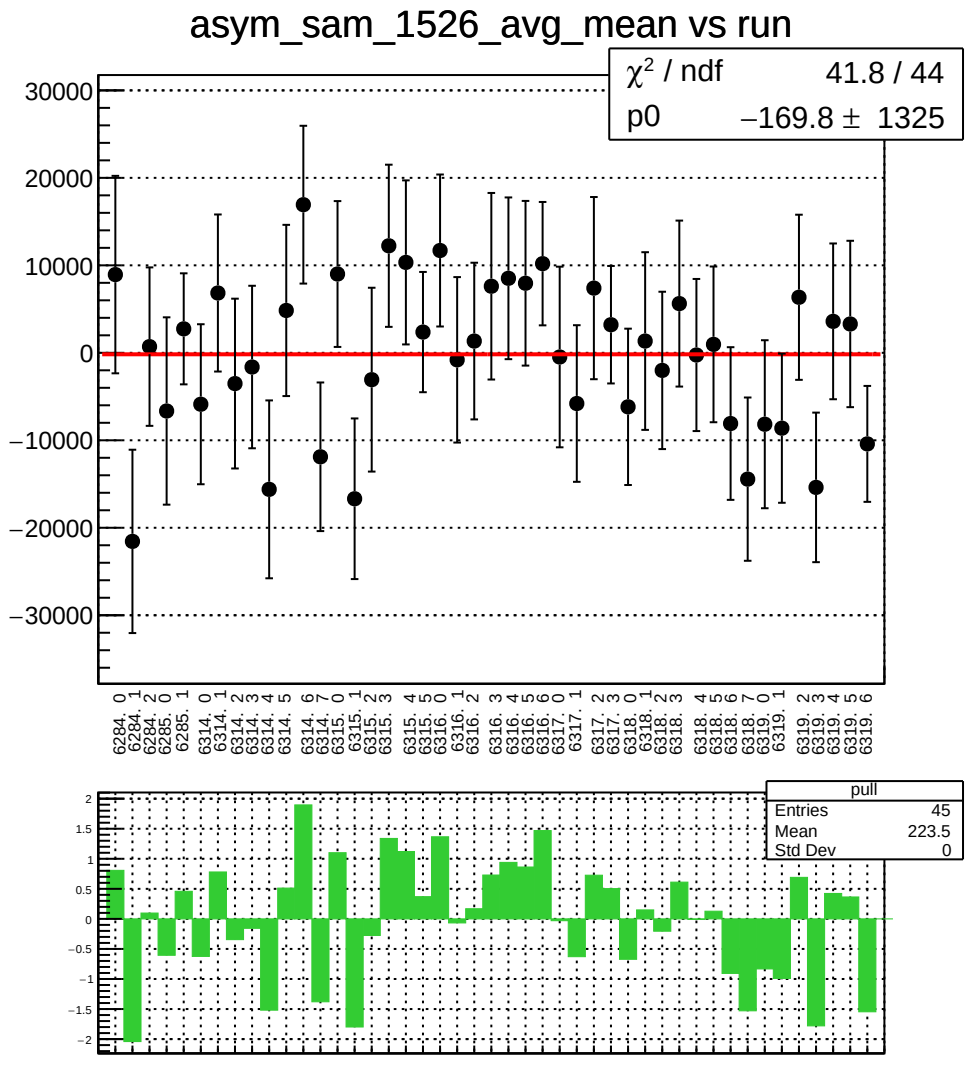
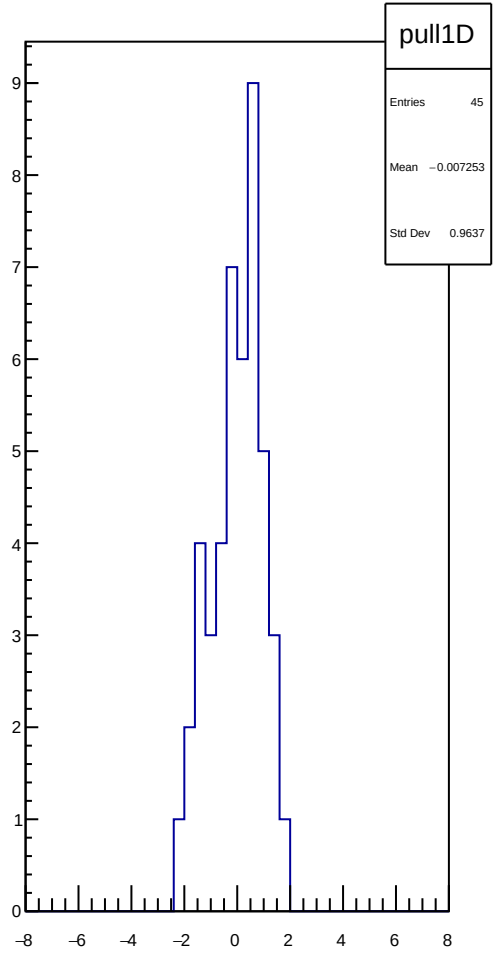
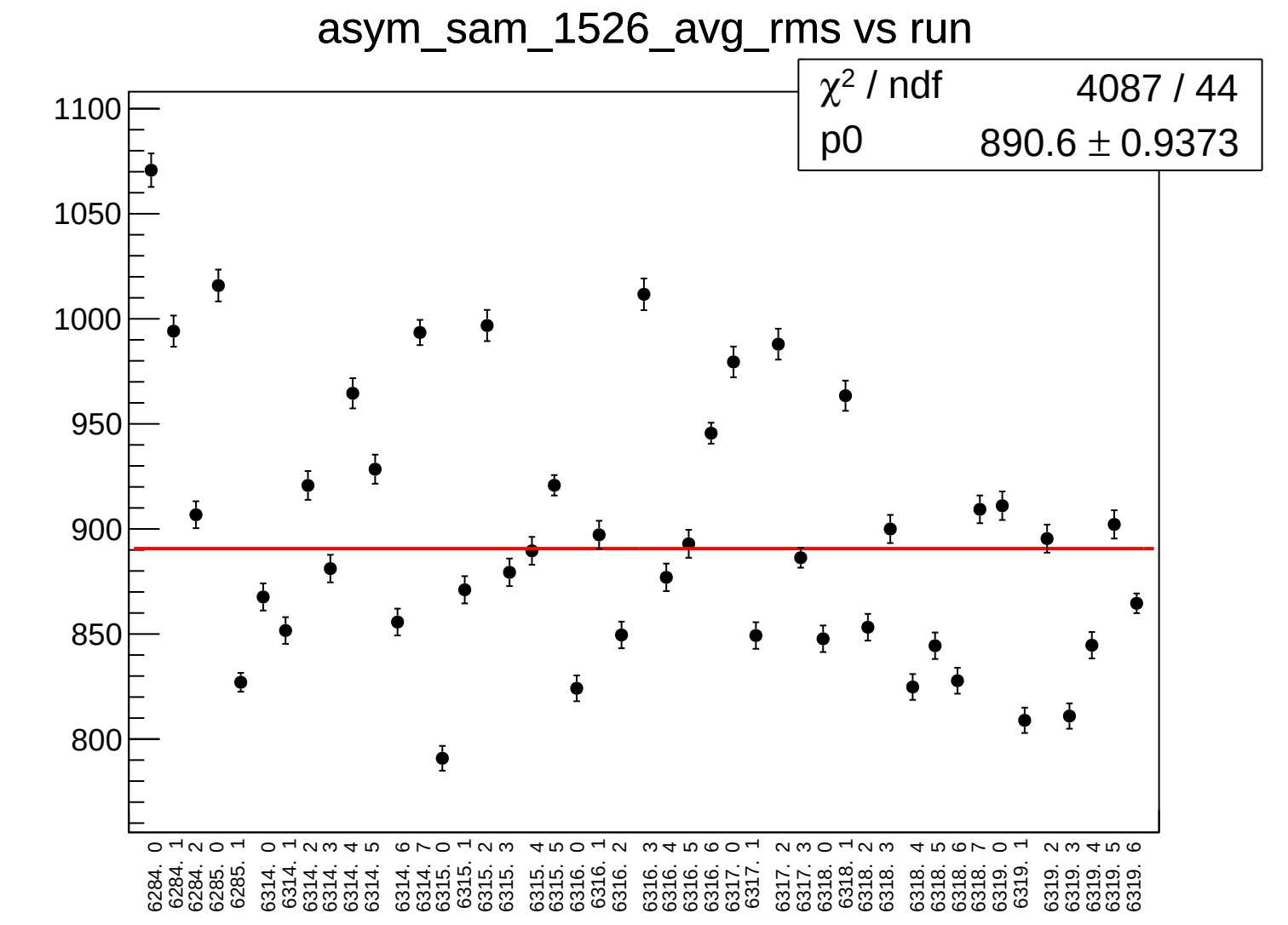

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.73 / 44
p0 22.38 ± 1325
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 735.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

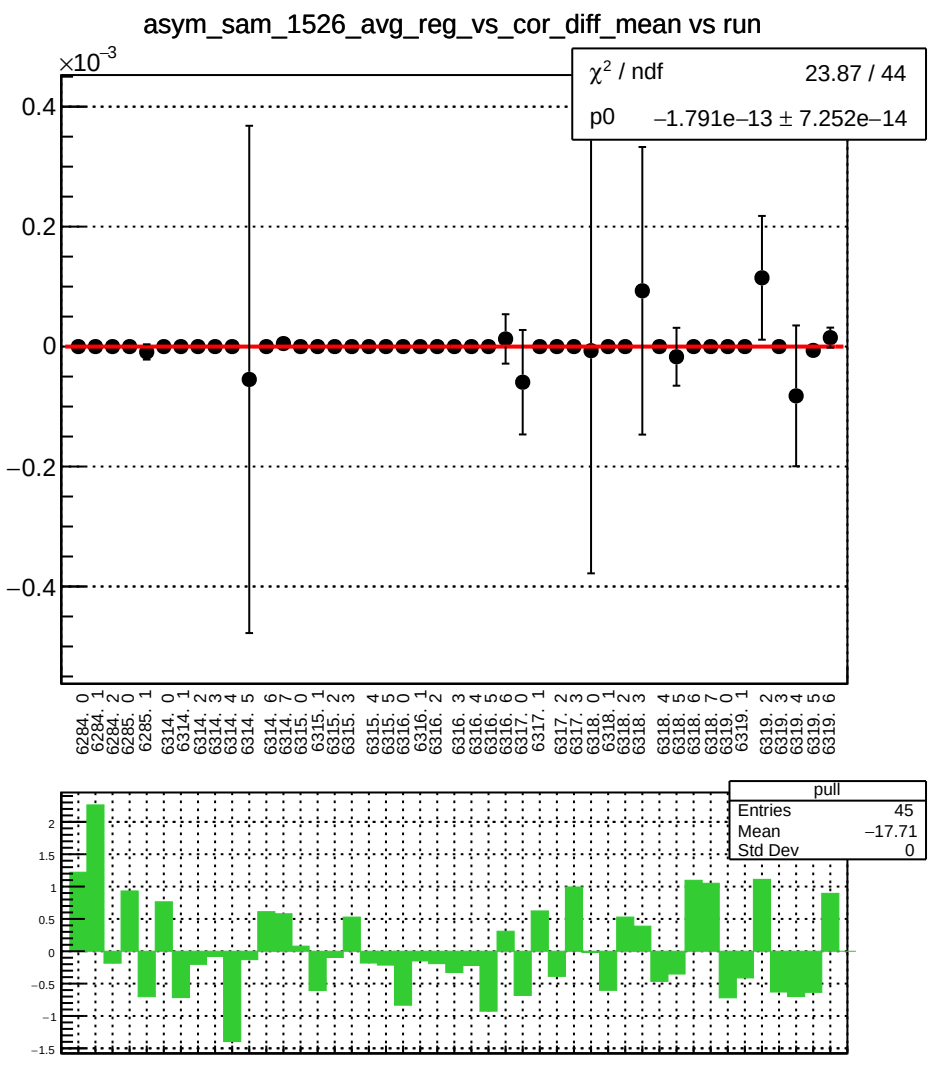

pull1D
Entries 45
Mean 0.002241
Std Dev 0.963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

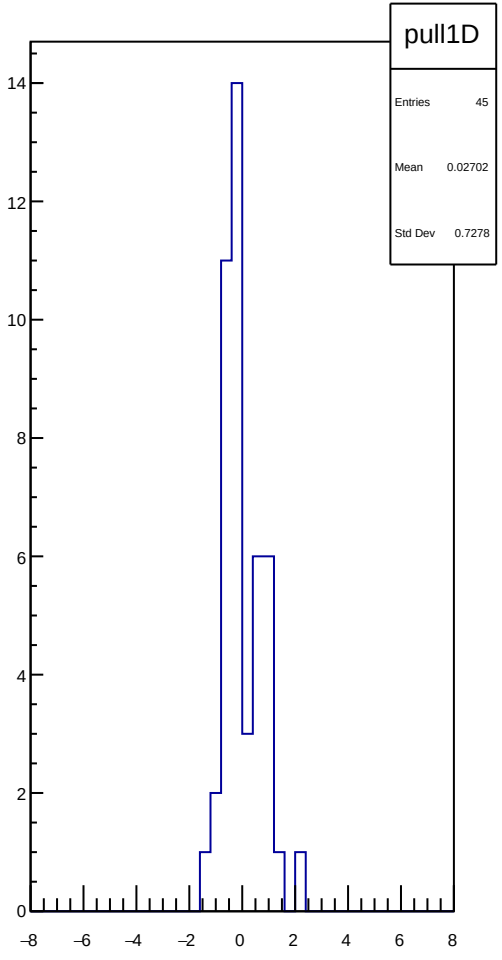

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 4684 / 44
p0 889.8 ± 0.9367
1150
1100
1050
1000
950
900
850
800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

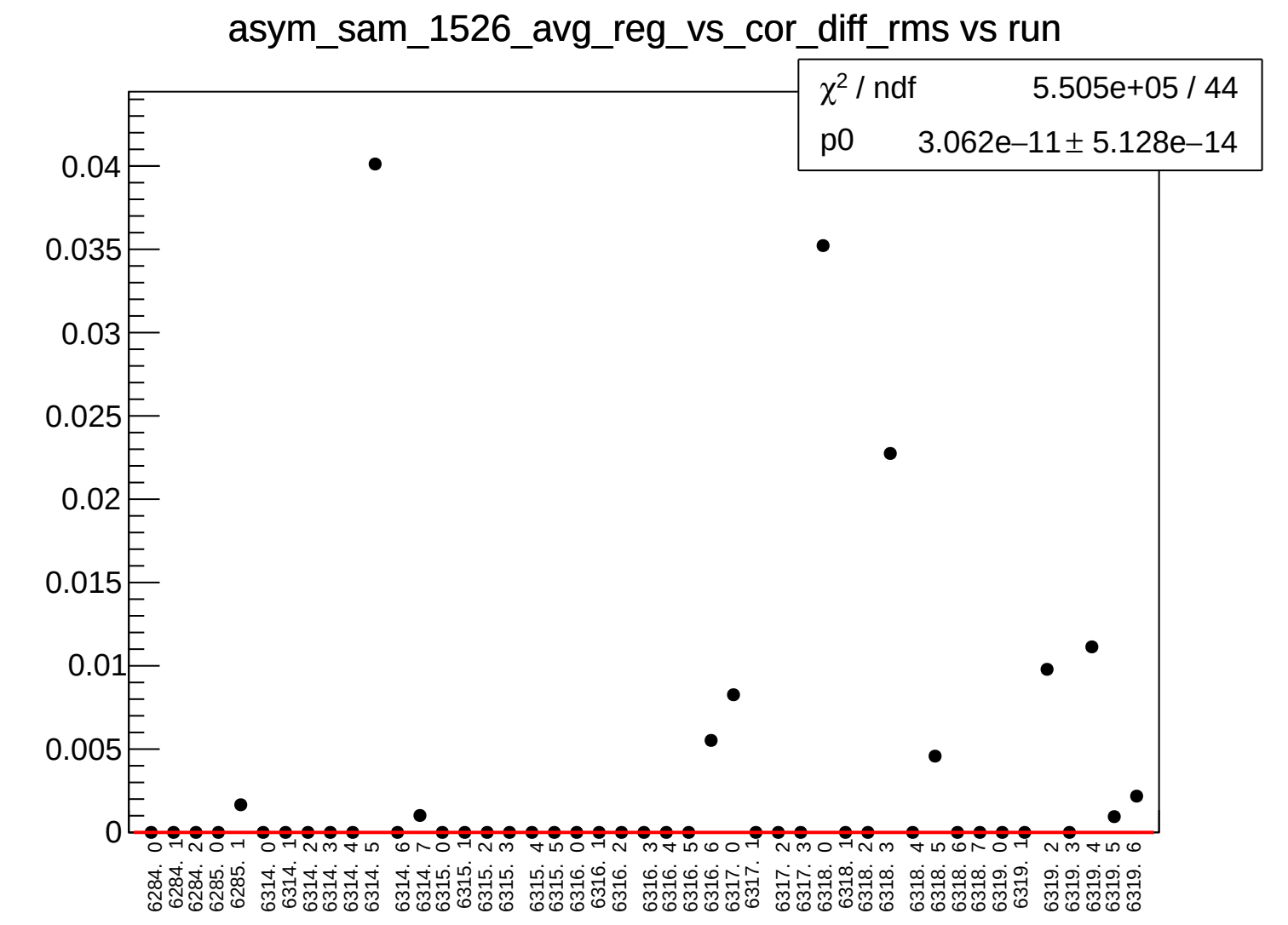

asym_sam_1526_avg_mean vs run
χ² / ndf 41.8 / 44
p0 −169.8 ± 1325
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 223.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

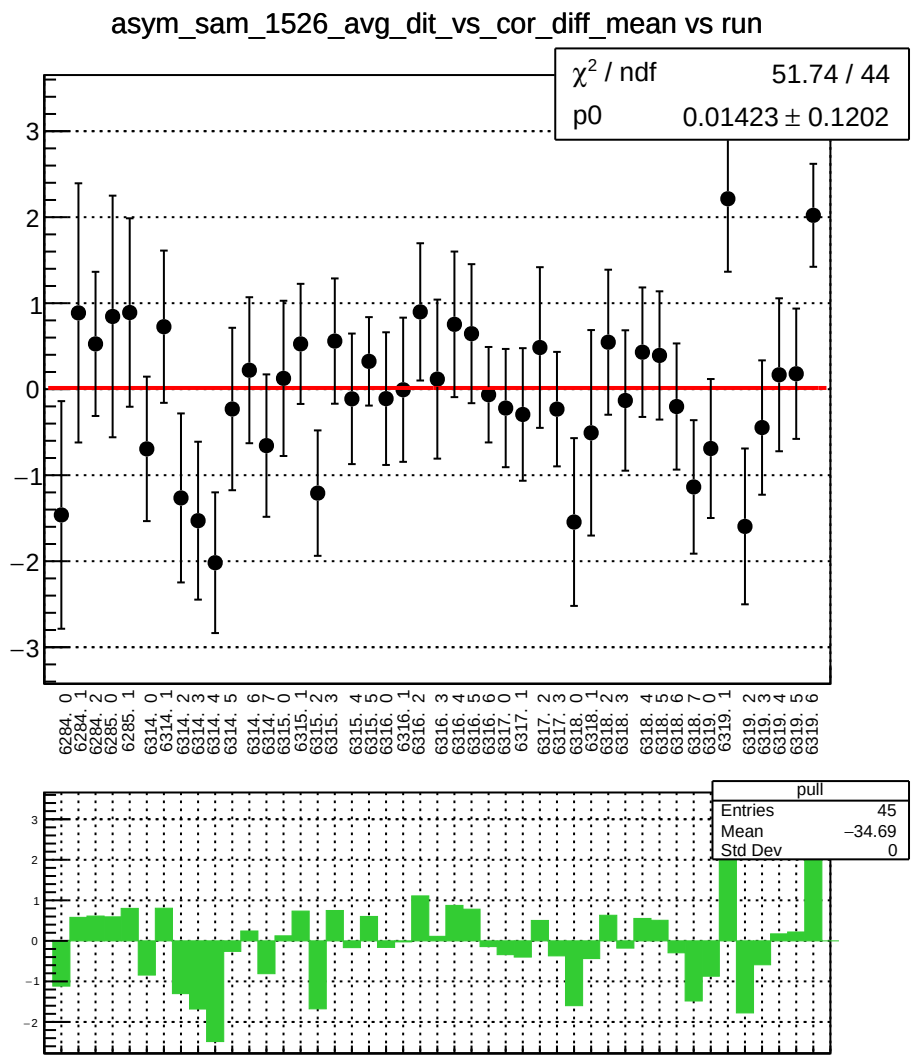

pull1D
Entries 45
Mean −0.007253
Std Dev 0.9637
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

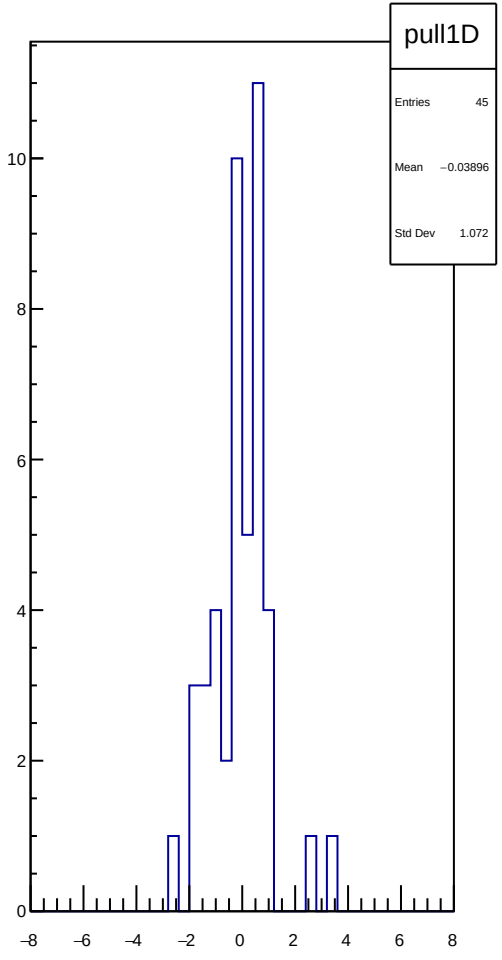

asym_sam_1526_avg_rms vs run
χ² / ndf 4087 / 44
p0 890.6 ± 0.9373
1100
1050
1000
950
900
850
800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

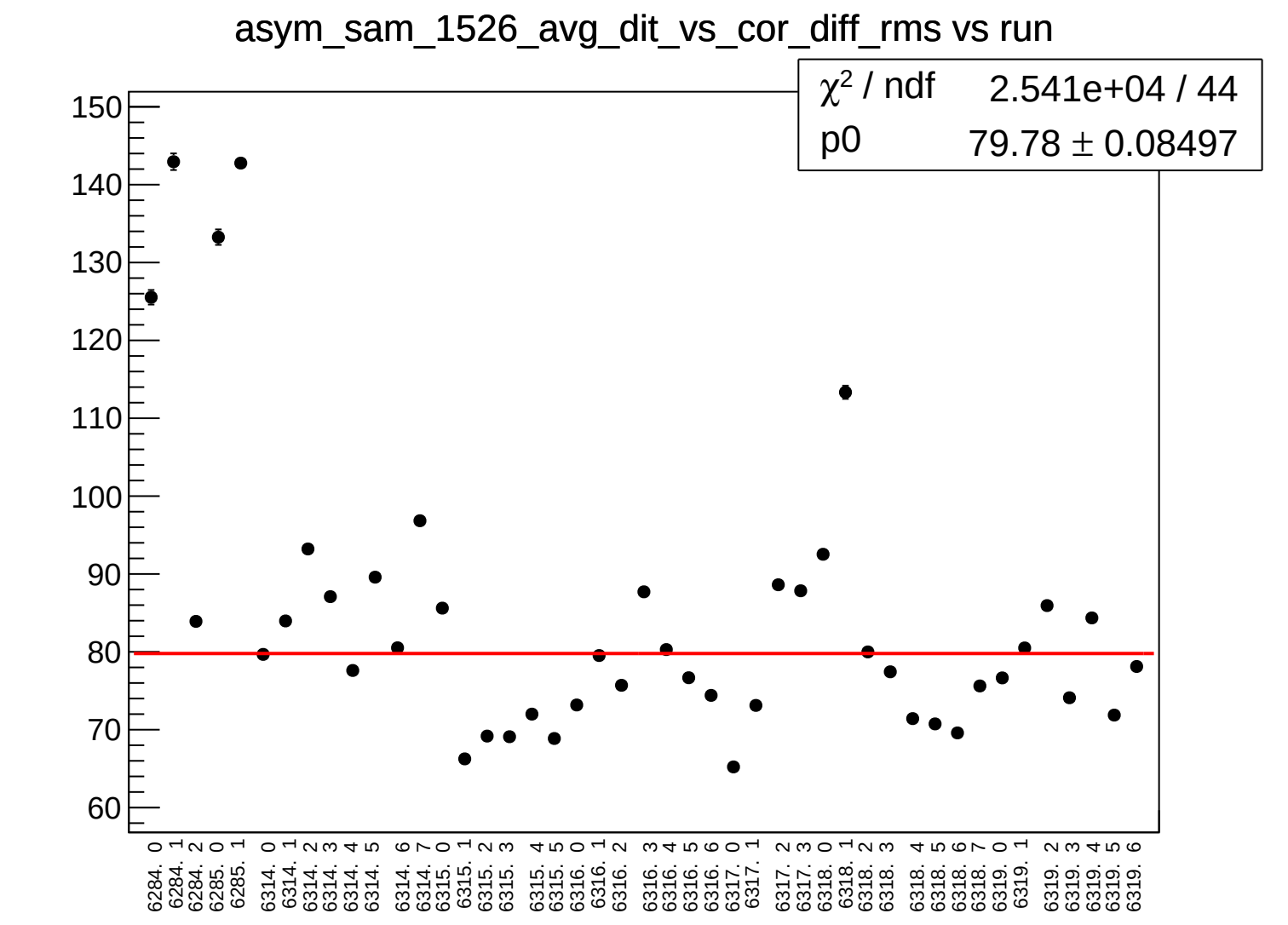

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 23.87 / 44
p0 −1.791e−13 ± 7.252e−14
0.4
0.2
0
−0.2
−0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −17.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

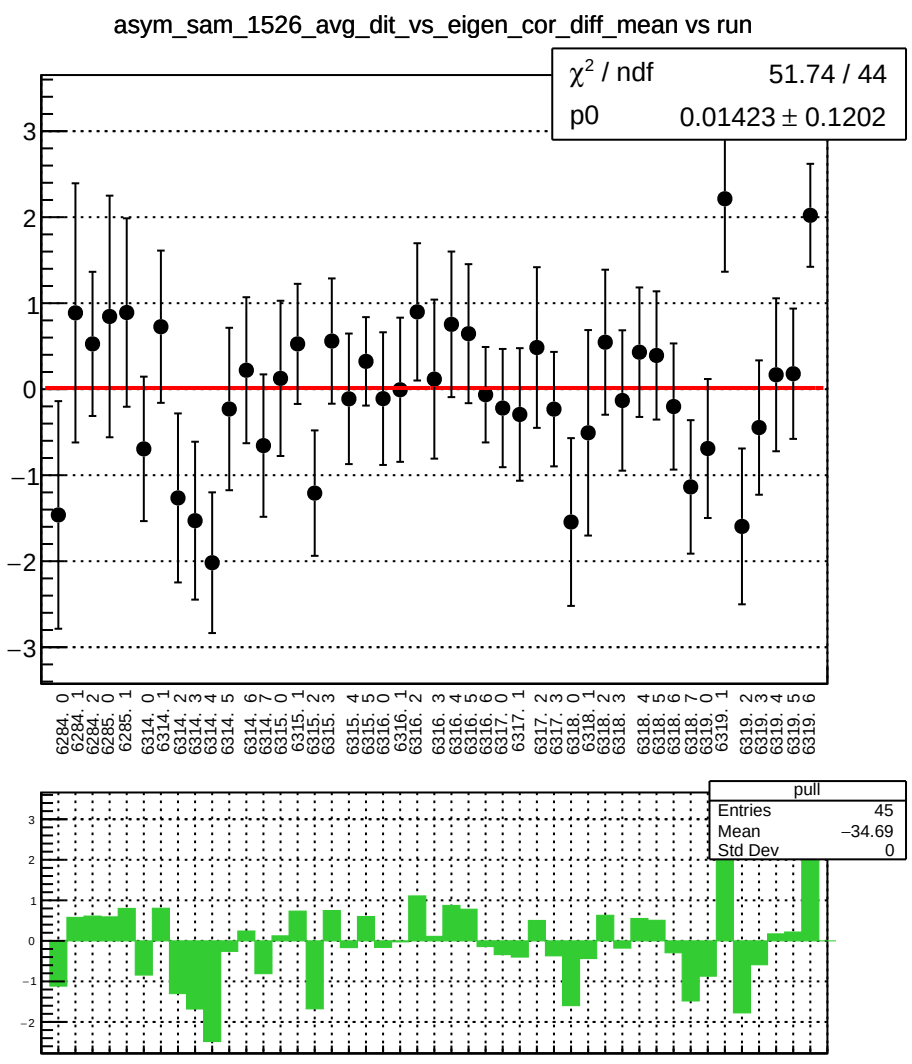

pull1D
Entries 45
Mean 0.02702
Std Dev 0.7278
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

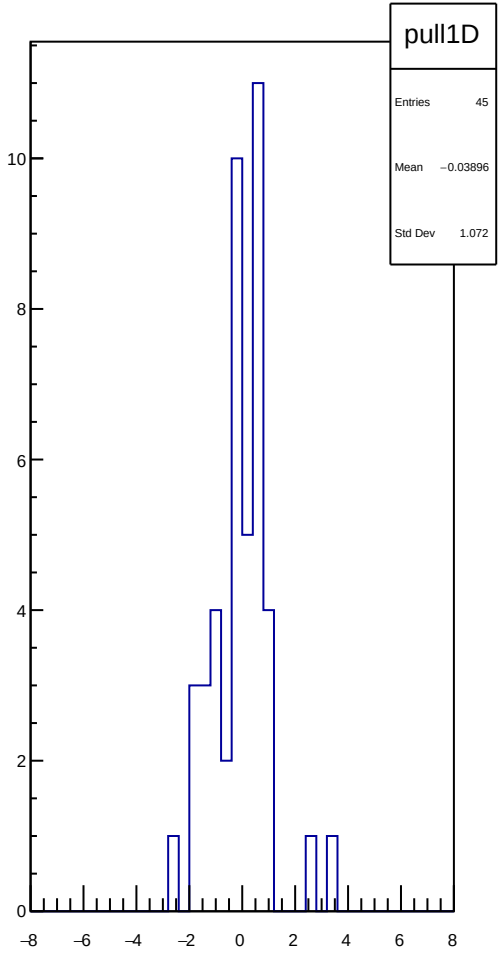

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.505e+05 / 44
p0 3.062e−11 ± 5.128e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

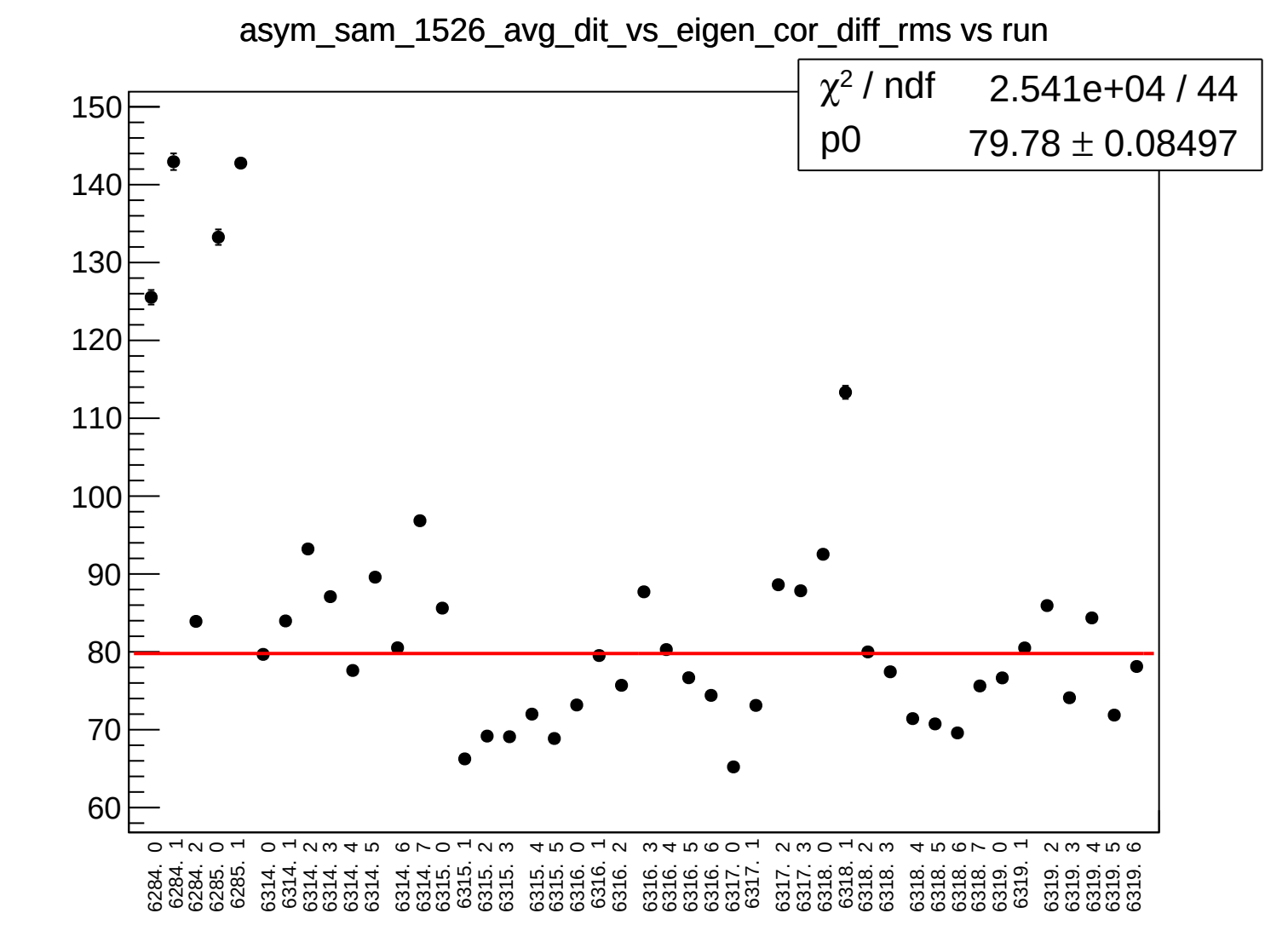

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.74 / 44
p0 0.01423 ± 0.1202
pull
Entries 45
Mean −34.69
Std Dev 0

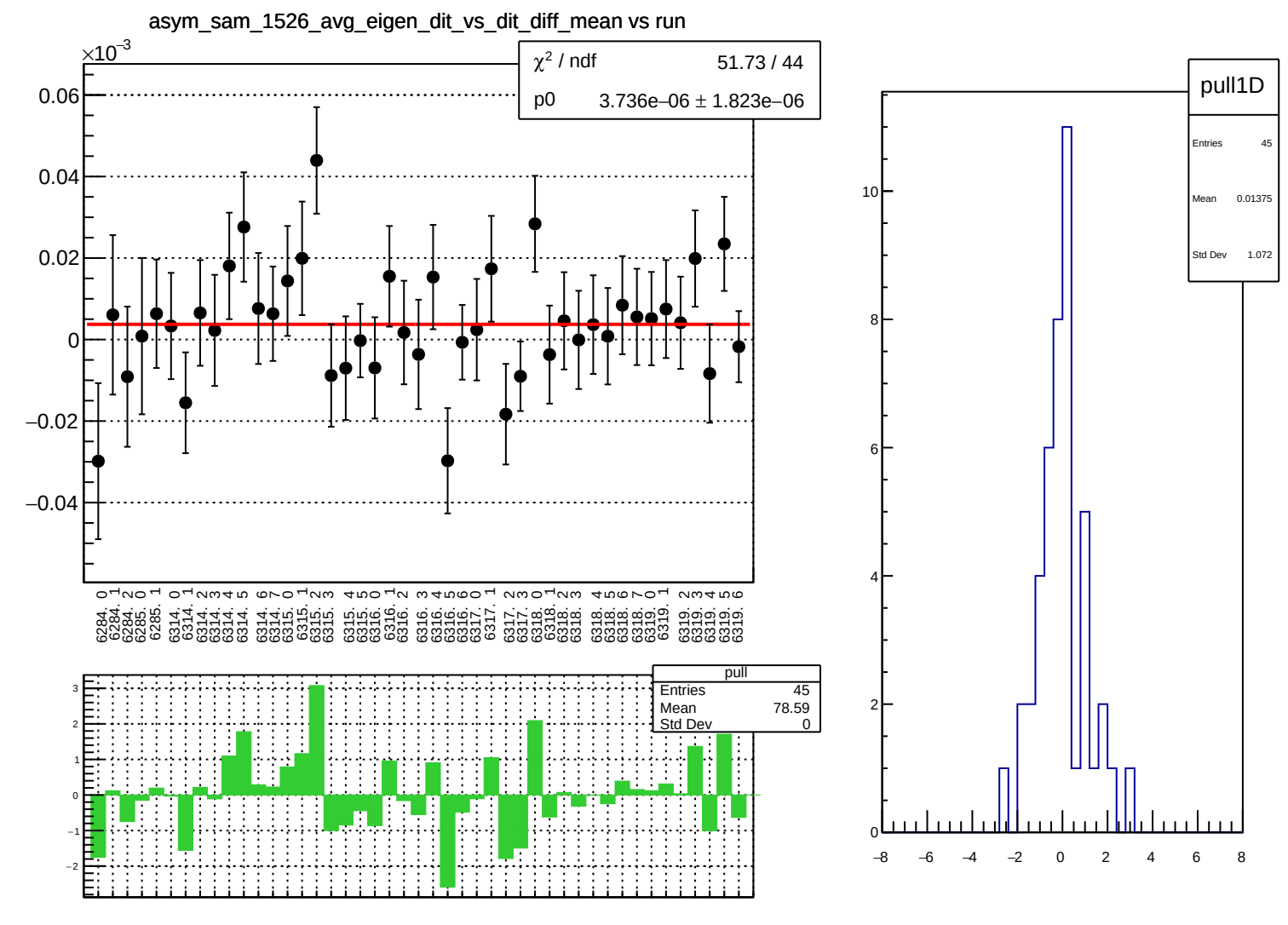

pull1D
Entries 45
Mean −0.03896
Std Dev 1.072

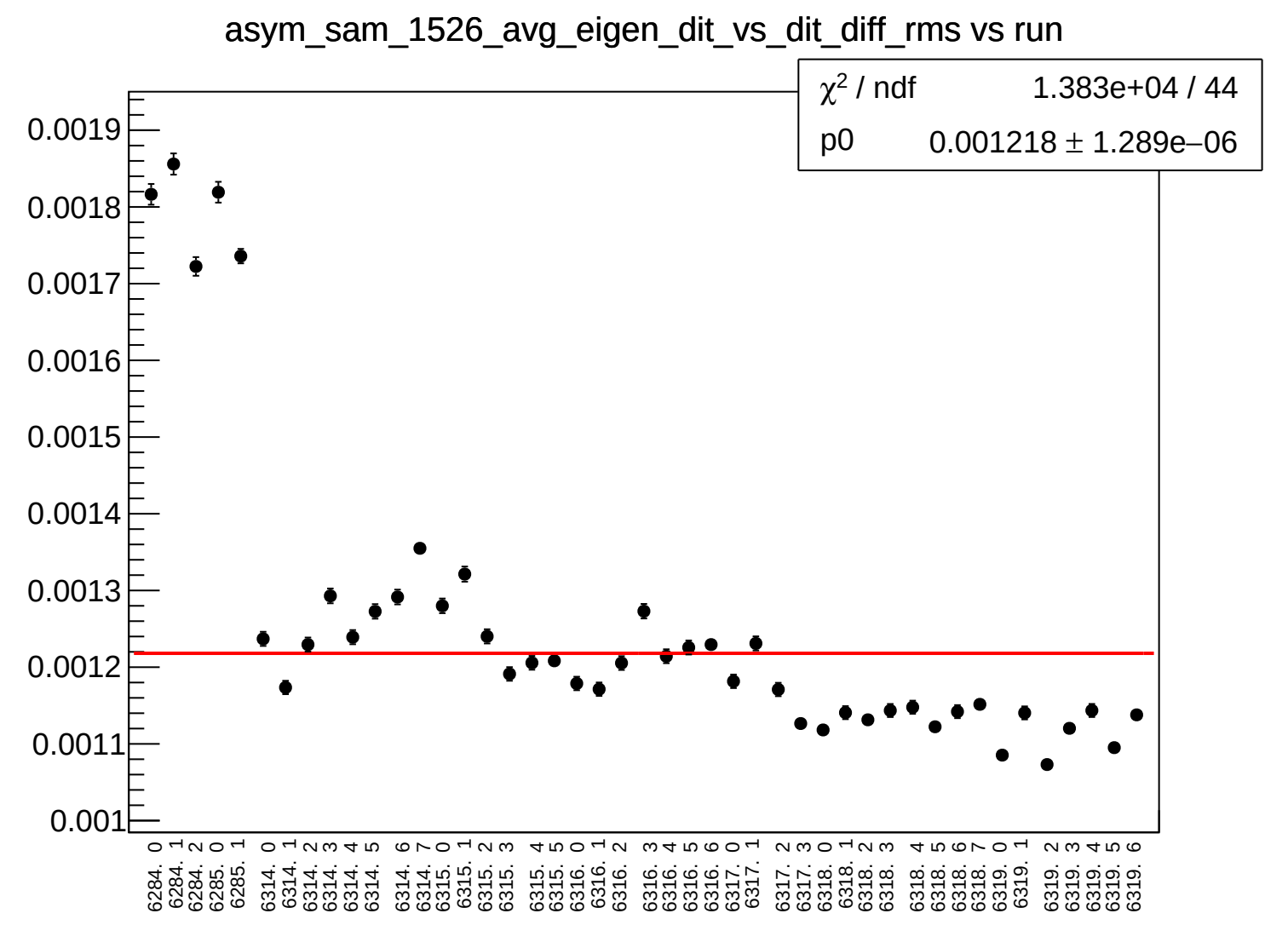

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 44
p0 79.78 ± 0.08497
150
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

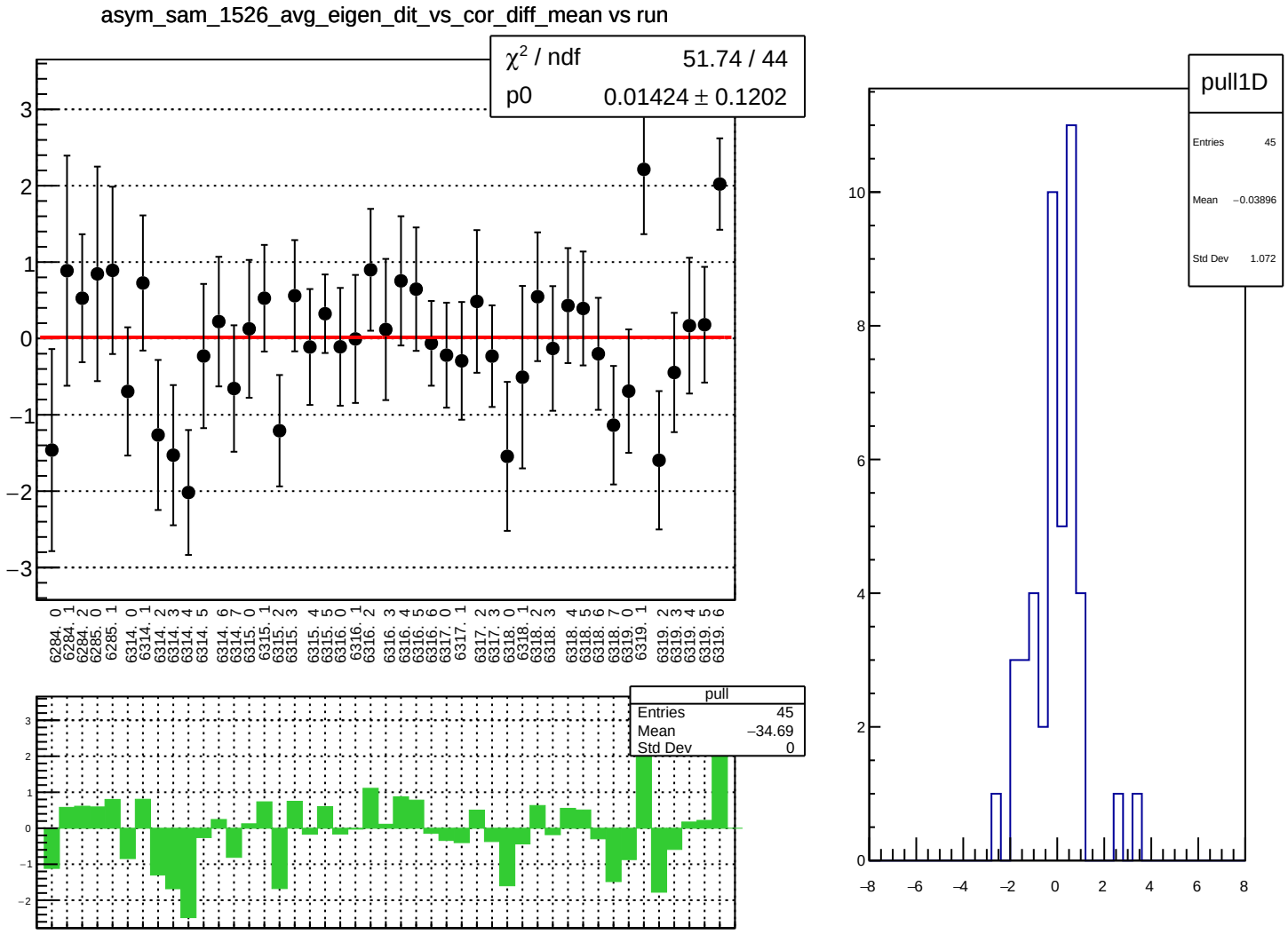

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.74 / 44
p0 0.01423 ± 0.1202
pull
Entries 45
Mean −34.69
Std Dev 0

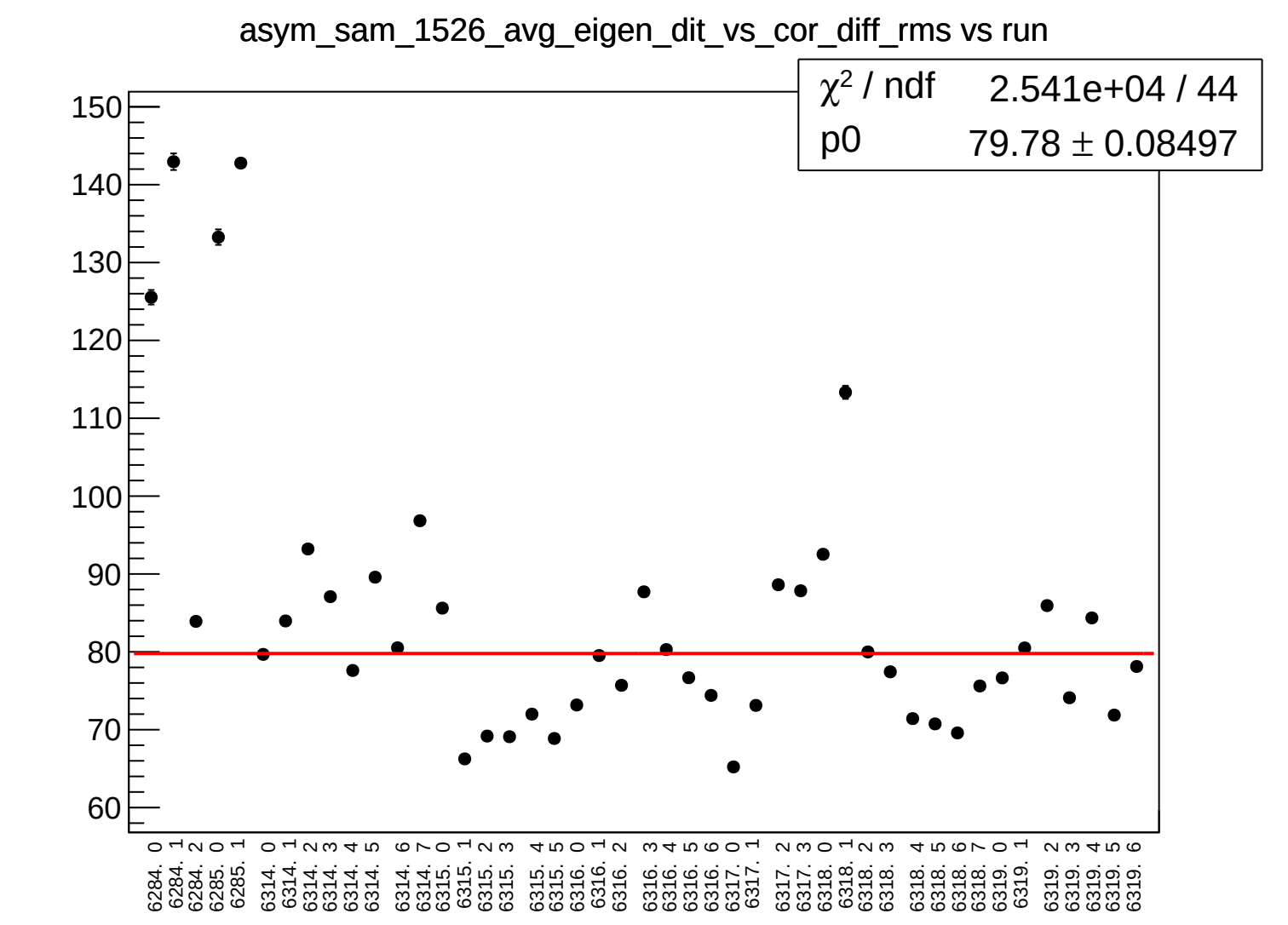

pull1D
Entries 45
Mean −0.03896
Std Dev 1.072


asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 44
p0 79.78 ± 0.08497
150
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

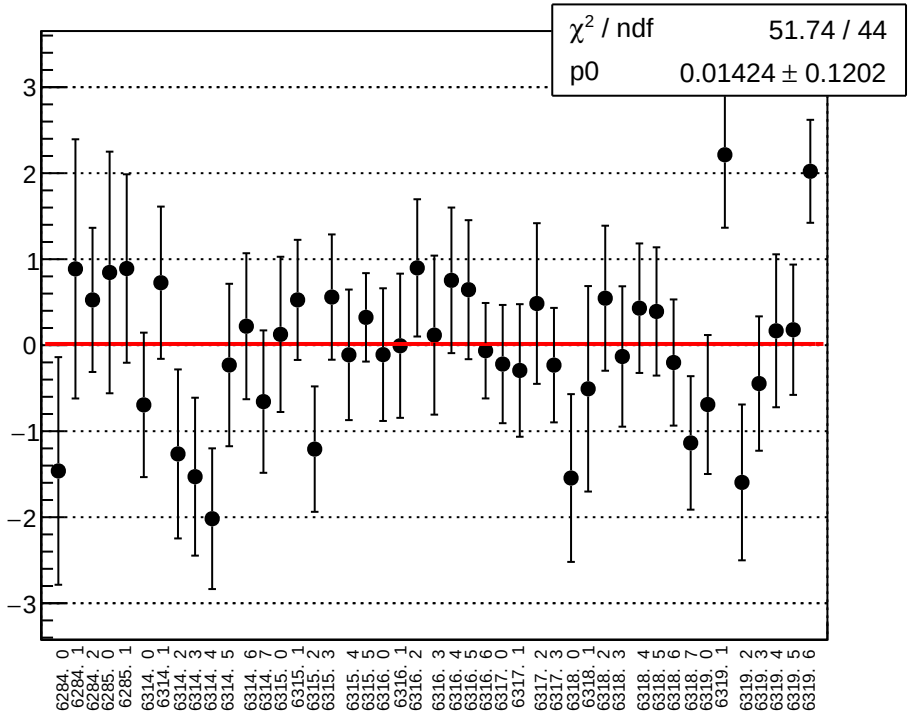

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 51.73 / 44
p0 3.736e−06 ± 1.823e−06
0.06
0.04
0.02
0
−0.02
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 78.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01375
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

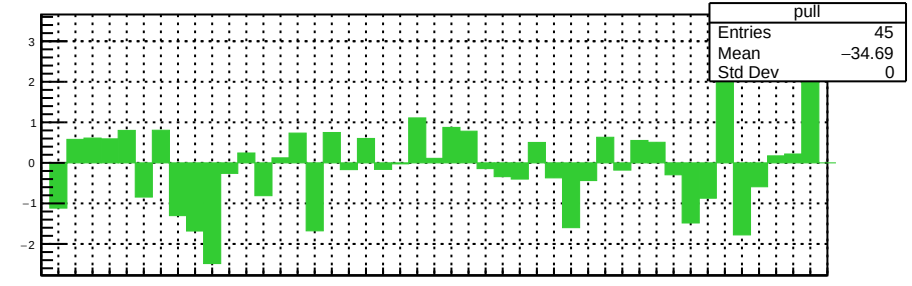

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.383e+04 / 44
p0 0.001218 ± 1.289e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

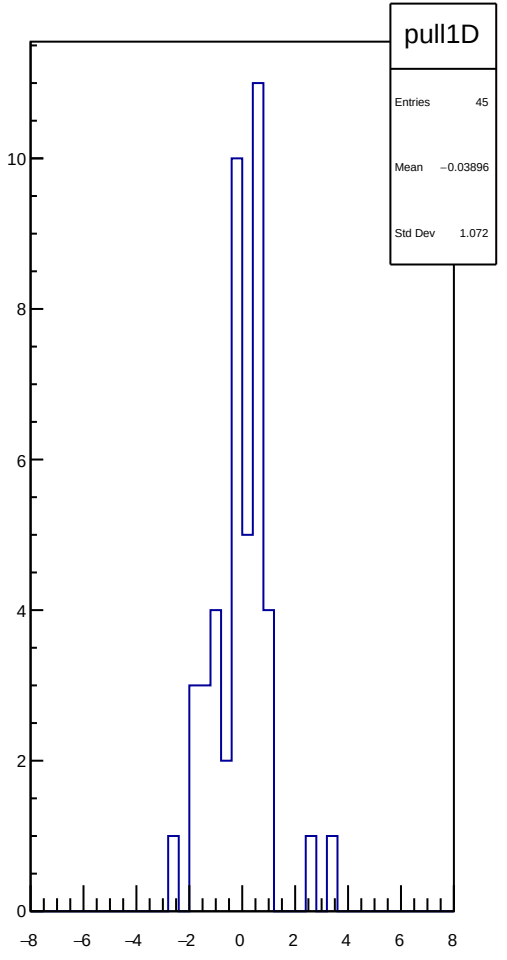

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.74 / 44
p0 0.01424 ± 0.1202
3
2
1
0
−1
−2
−3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −34.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03896
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

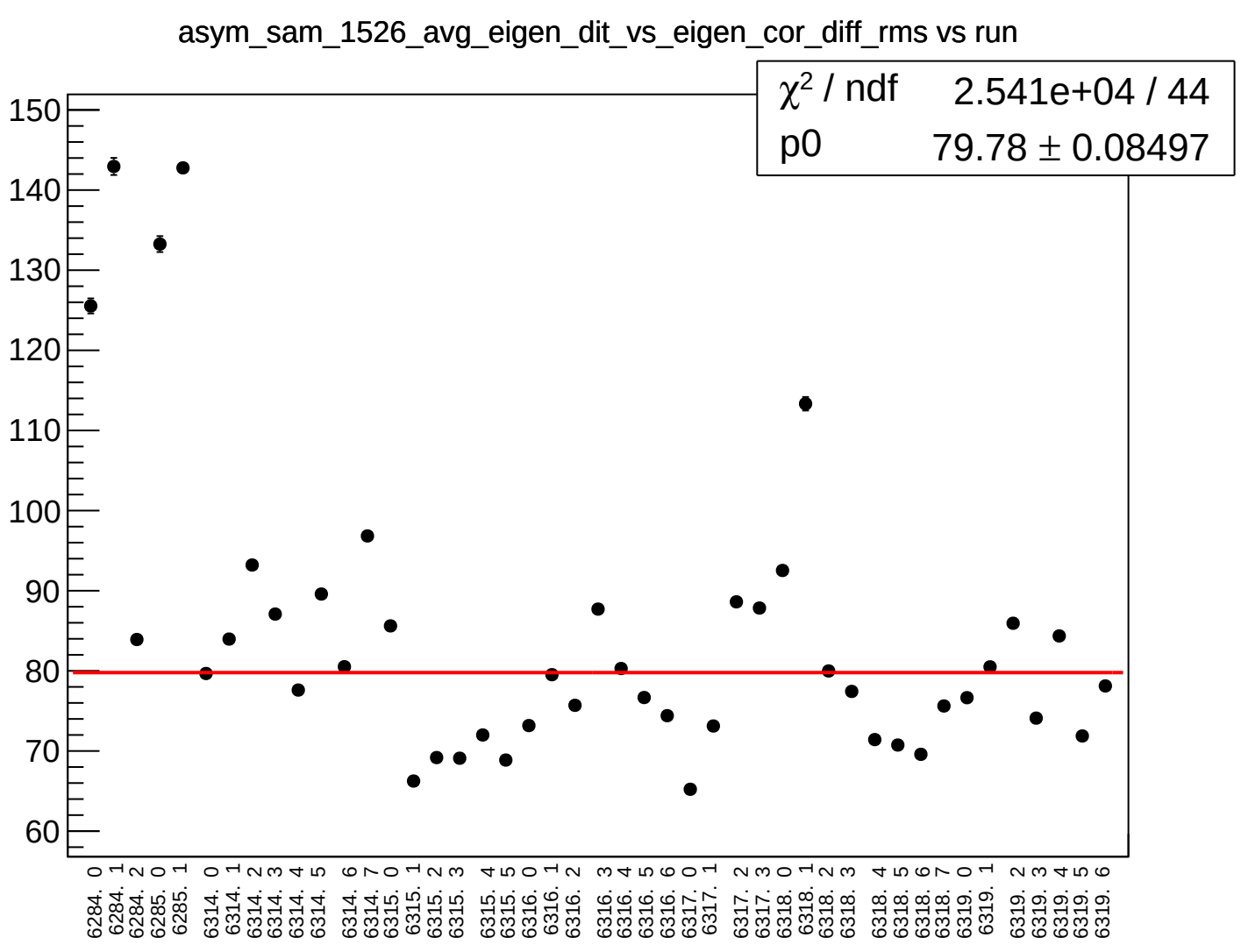

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 44
p0 79.78 ± 0.08497
150
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run








asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 44
p0 79.78 ± 0.08497
150
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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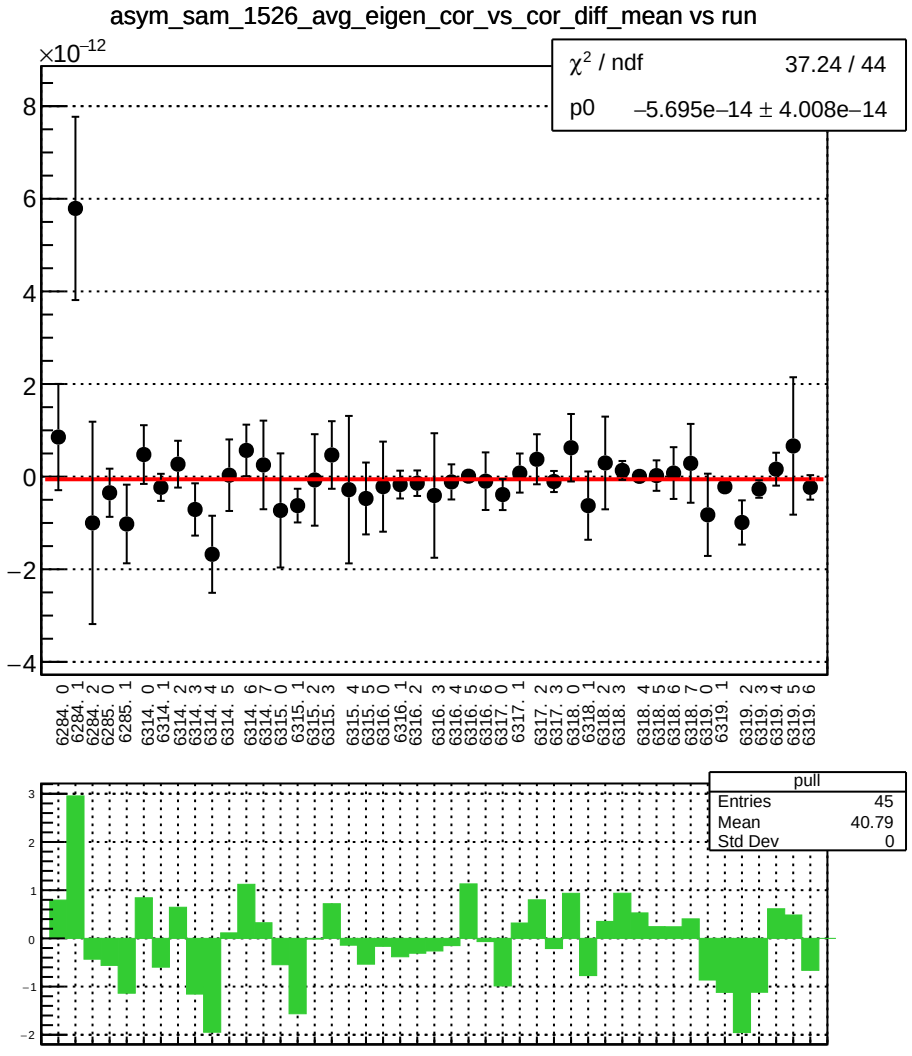
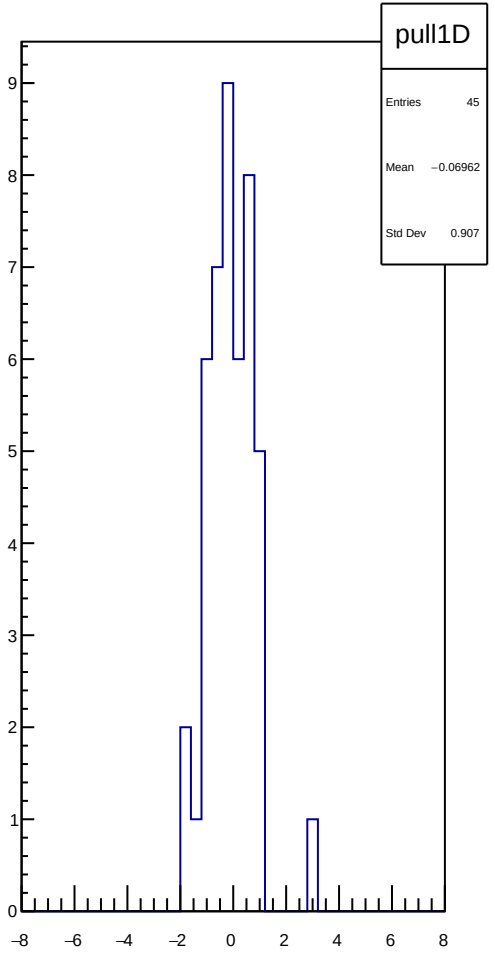
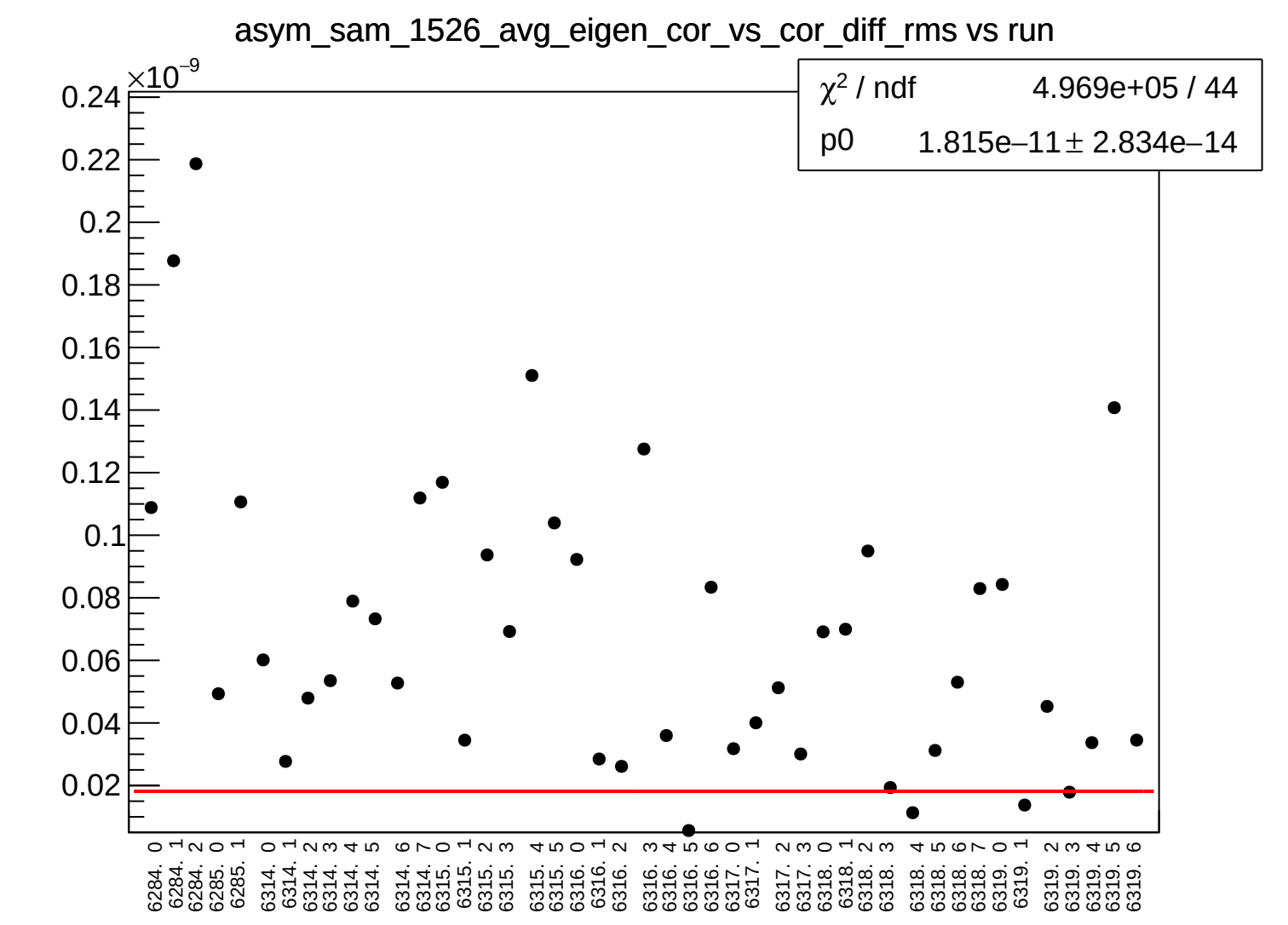
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.24 / 44
p0 −5.695e−14 ± 4.008e−14
pull
Entries 45
Mean 40.79
Std Dev 0


pull1D
Entries 45
Mean −0.06962
Std Dev 0.907


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.969e+05 / 44
p0 1.815e−11 ± 2.834e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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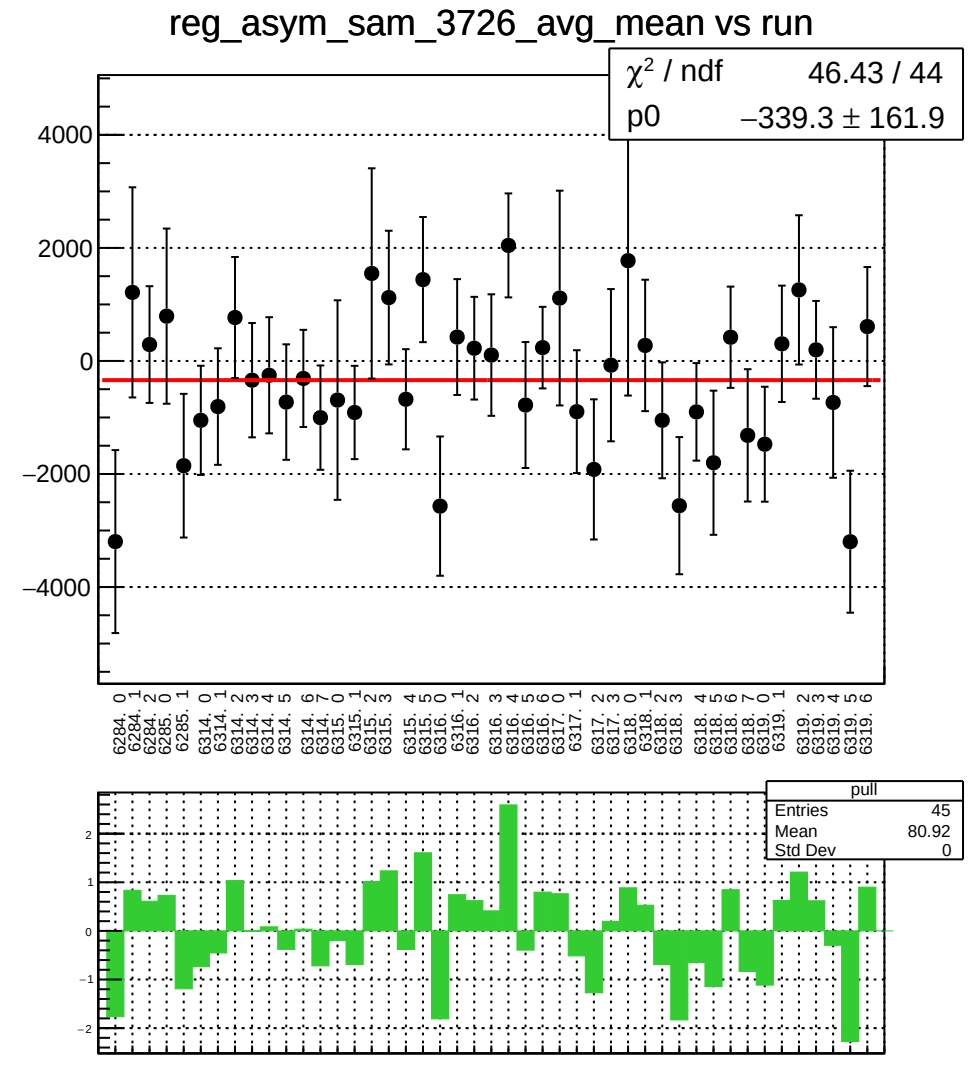
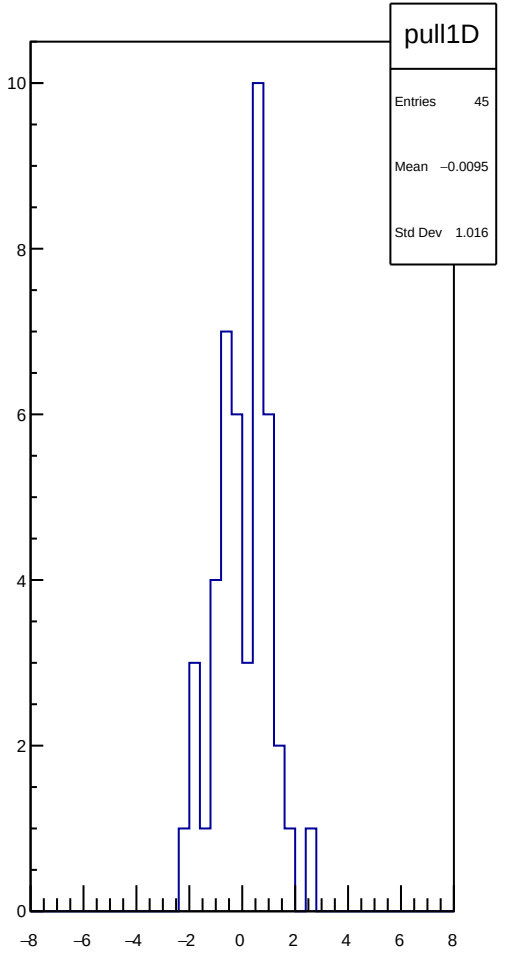
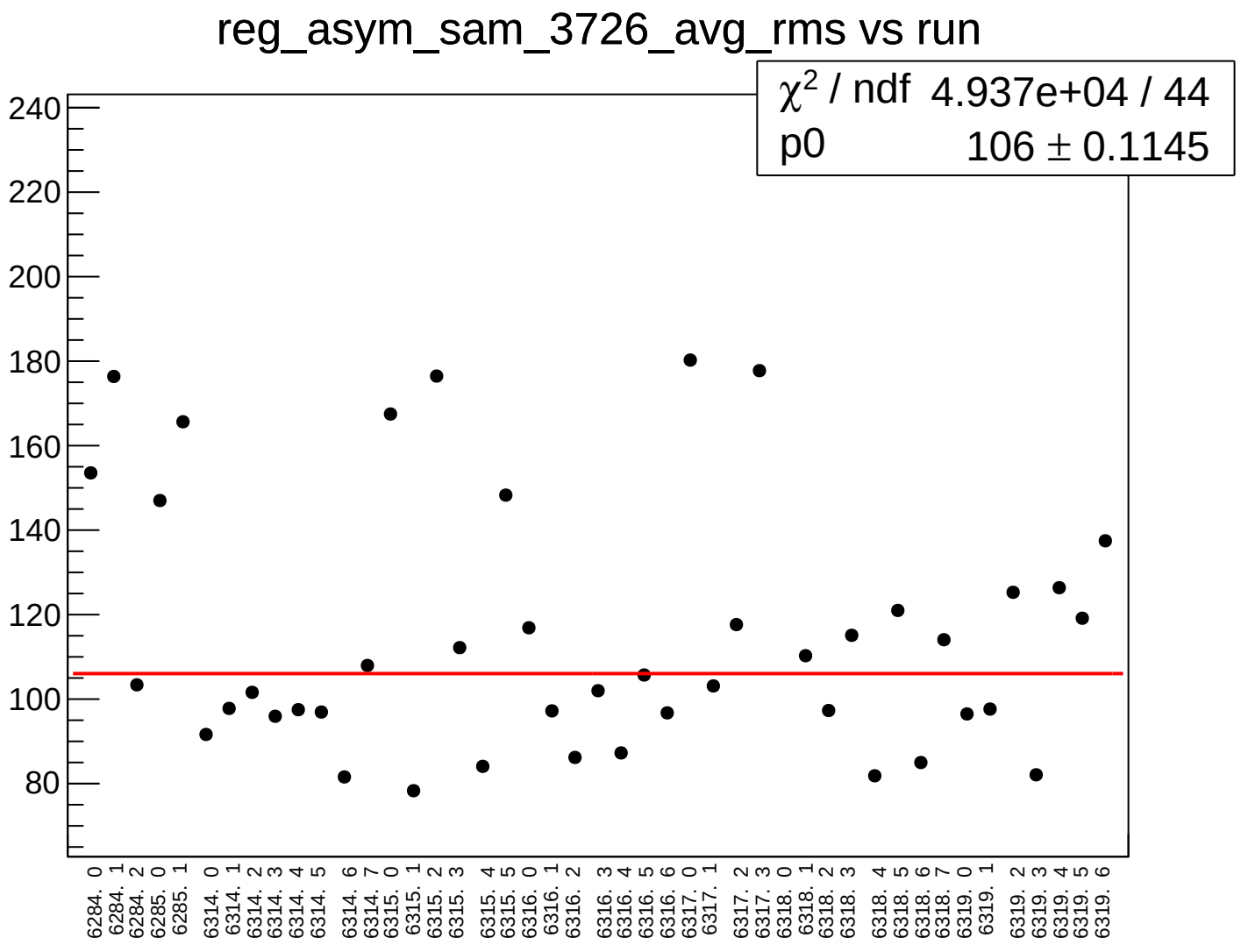
6319. 5
6319. 6


reg_asym_sam_3726_avg_mean vs run
χ² / ndf 46.43 / 44
p0 −339.3 ± 161.9
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.92
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.0095
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.937e+04 / 44
p0 106 ± 0.1145
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
6319. 0
6319. 1
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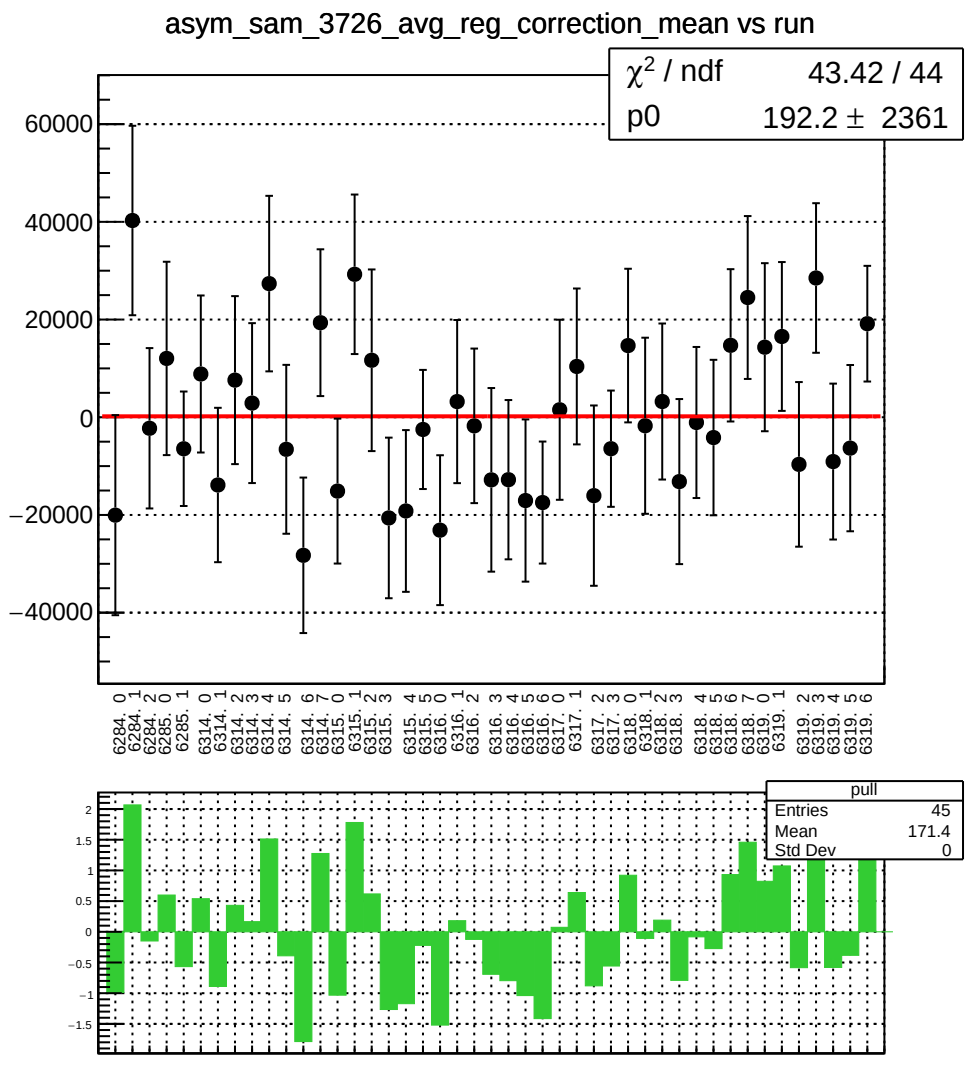
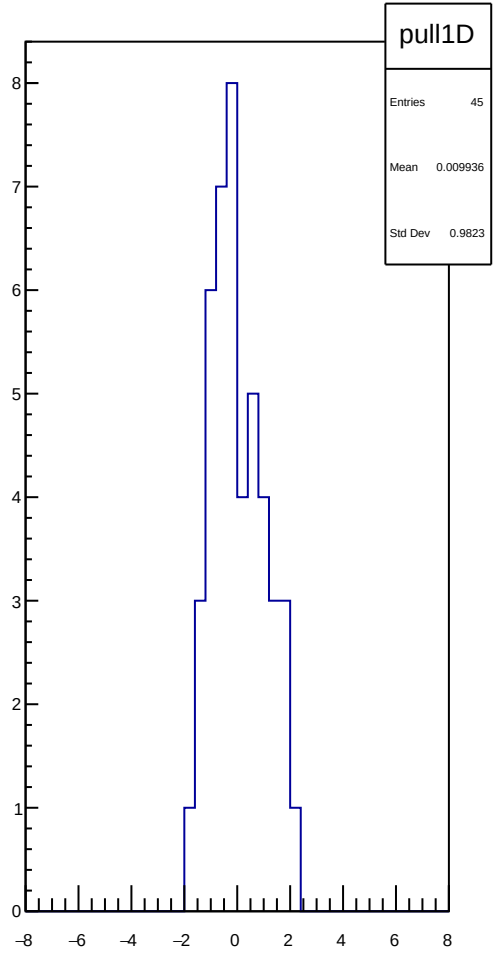
6319. 5
6319. 6


asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 43.42 / 44
p0 192.2 ± 2361
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009936
Std Dev 0.9823
8
7
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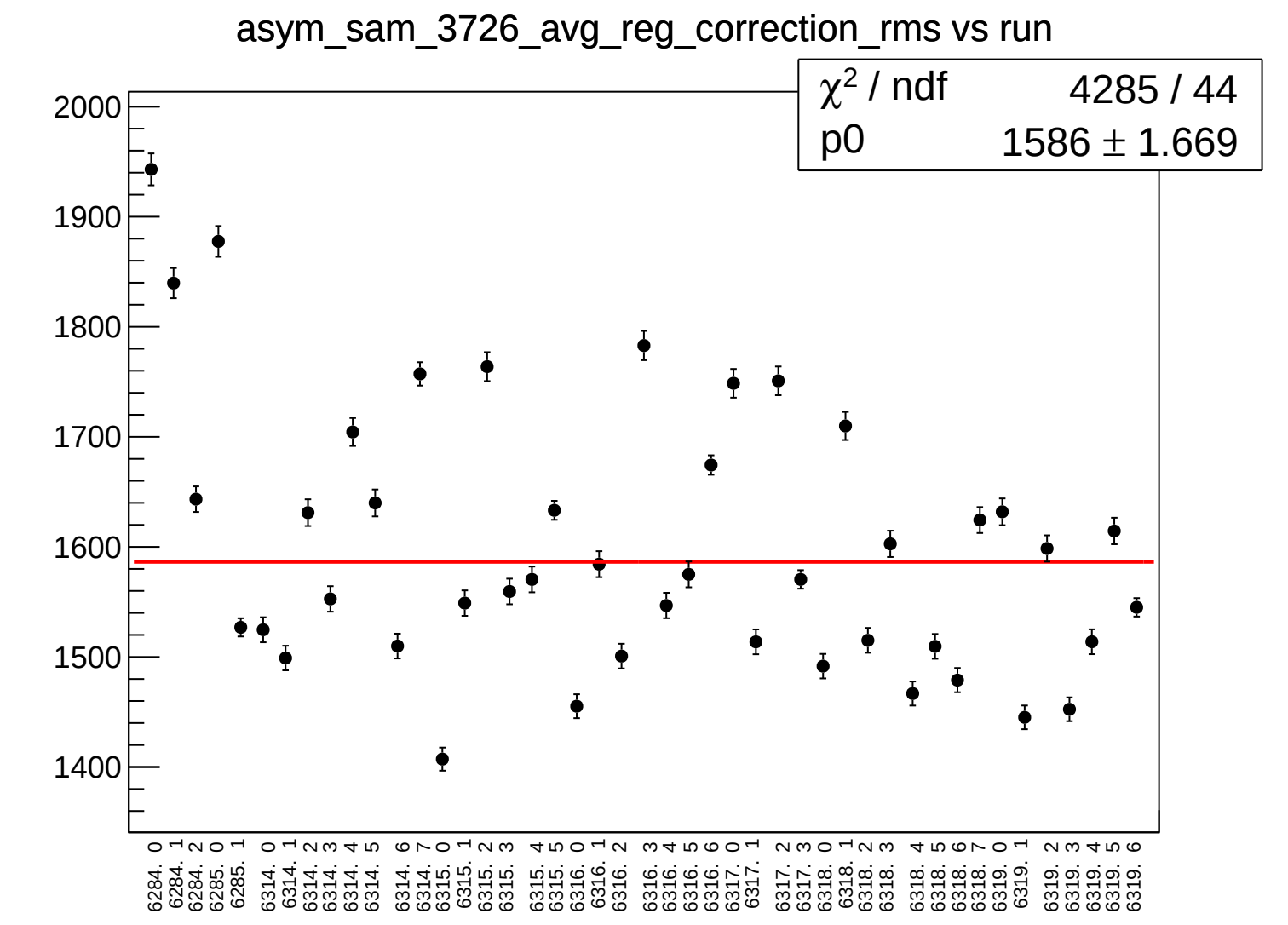
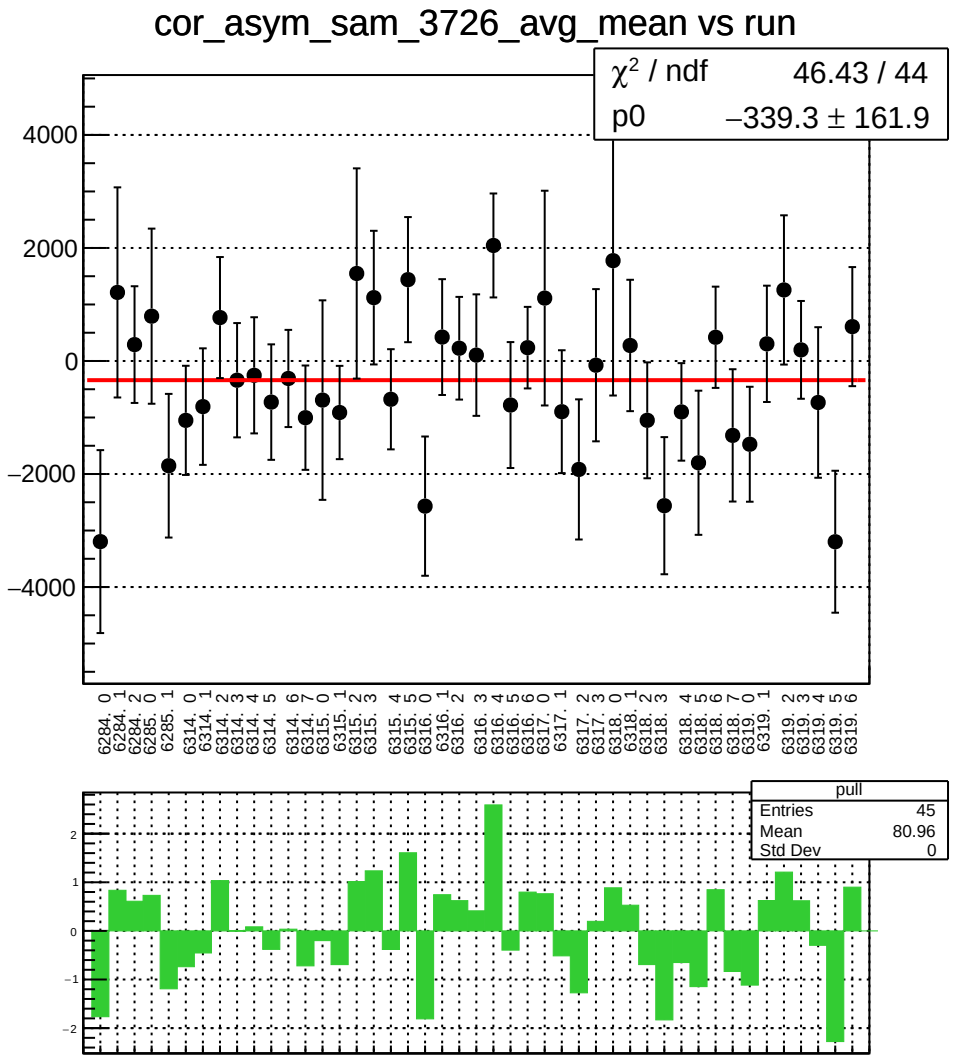
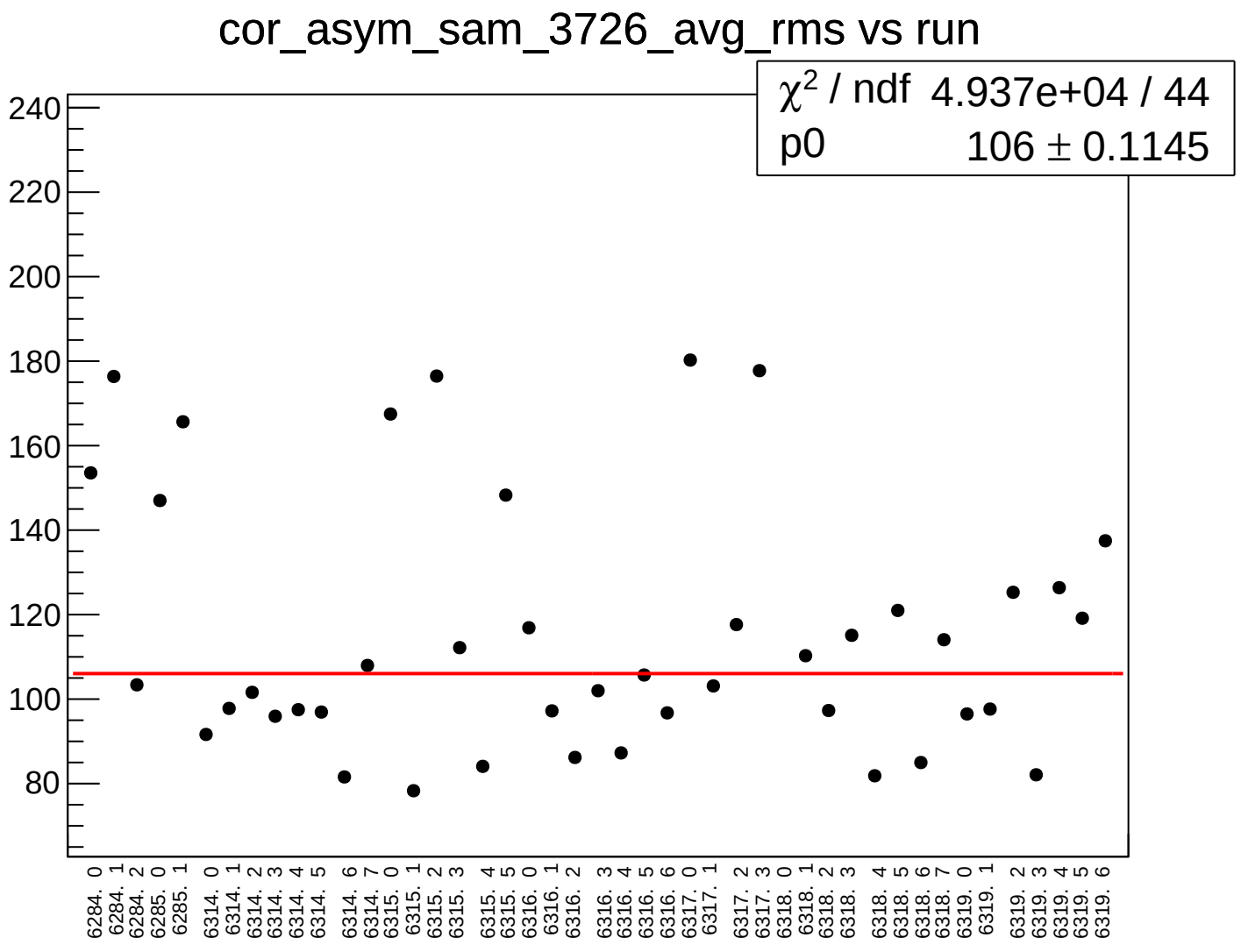
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 4285 / 44
p0 1586 ± 1.669
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_3726_avg_mean vs run
χ² / ndf 46.43 / 44
p0 −339.3 ± 161.9
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.009493
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.937e+04 / 44
p0 106 ± 0.1145
240
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6316. 6
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6317. 3
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6318. 1
6318. 2
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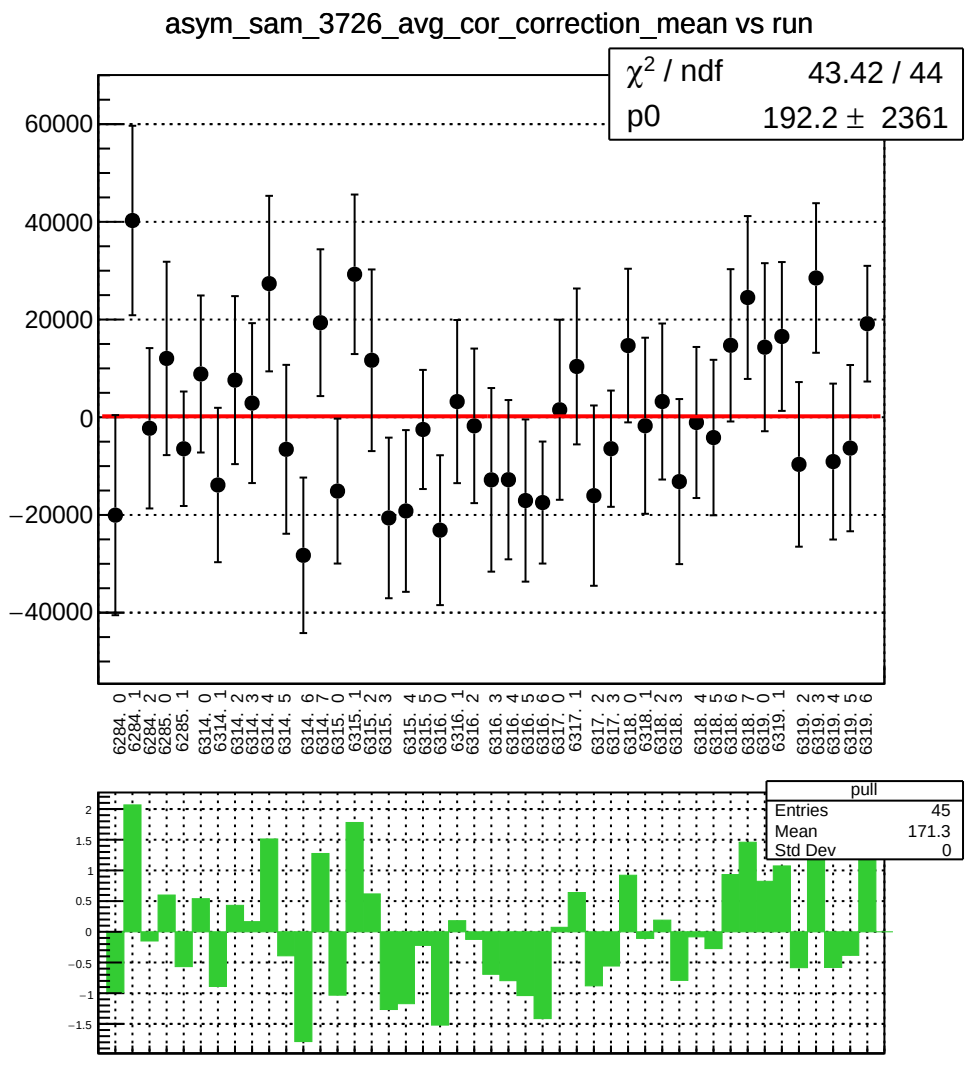
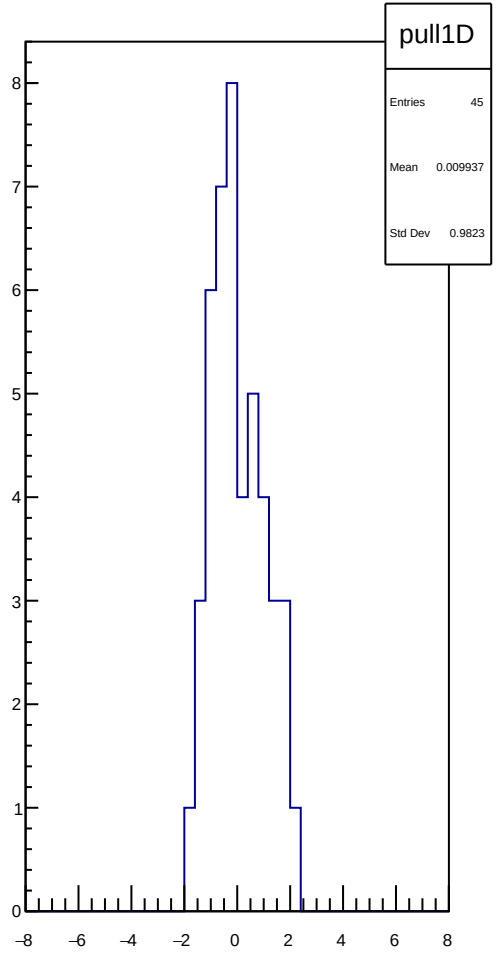
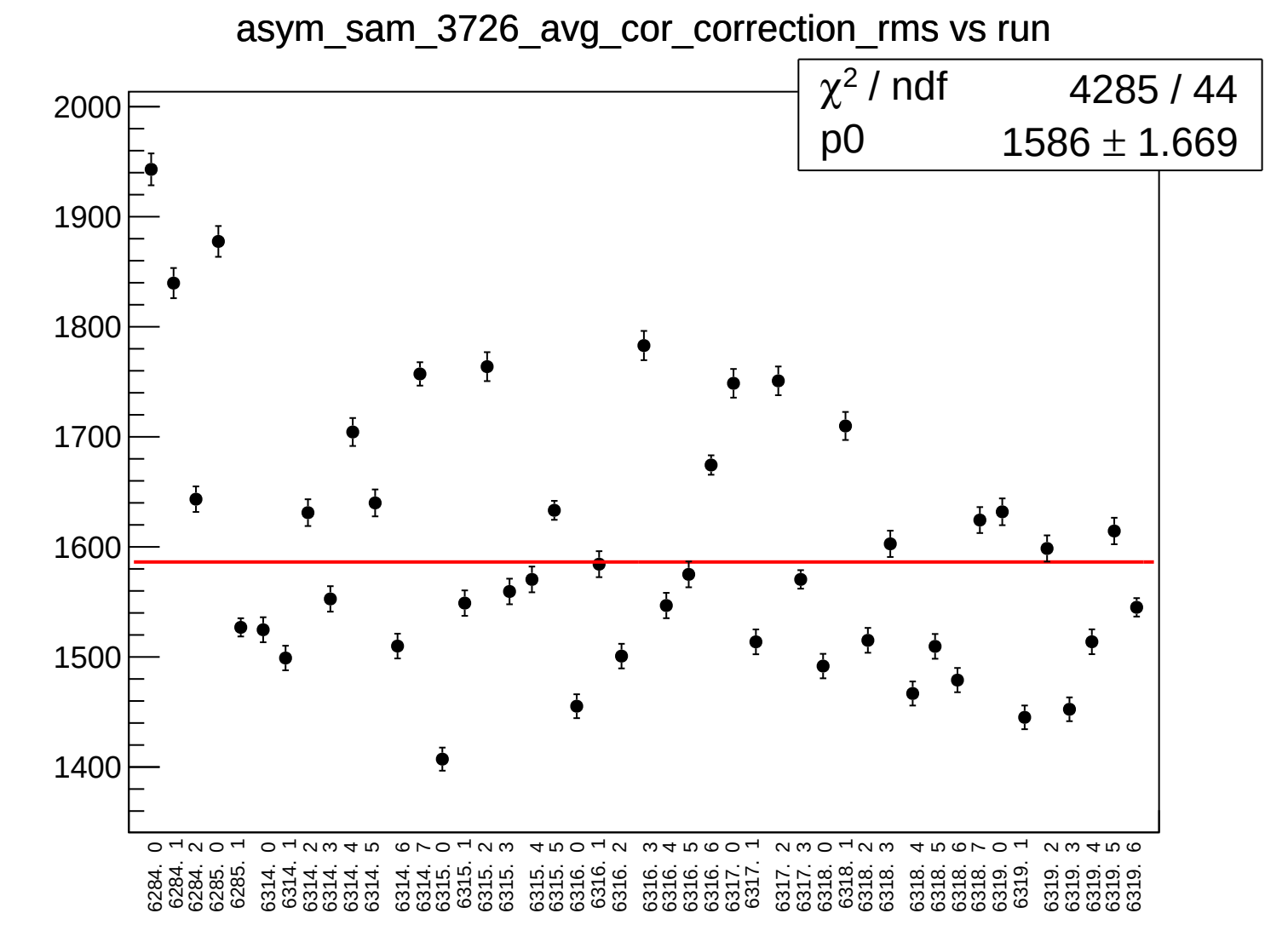

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 43.42 / 44
p0 192.2 ± 2361
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009937
Std Dev 0.9823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4285 / 44
p0 1586 ± 1.669
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 7
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6319. 2
6319. 3
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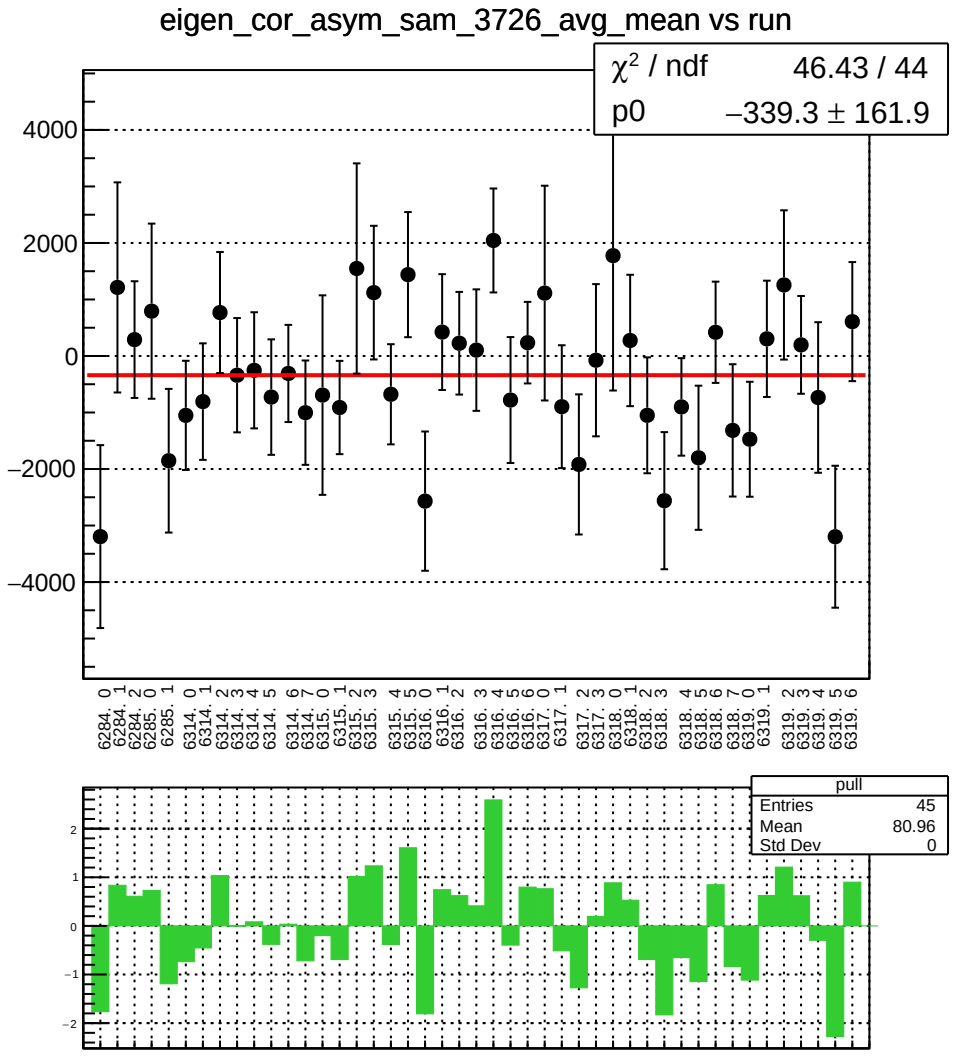
6319. 5
6319. 6


eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 46.43 / 44
p0 −339.3 ± 161.9
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6315. 2
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6317. 1
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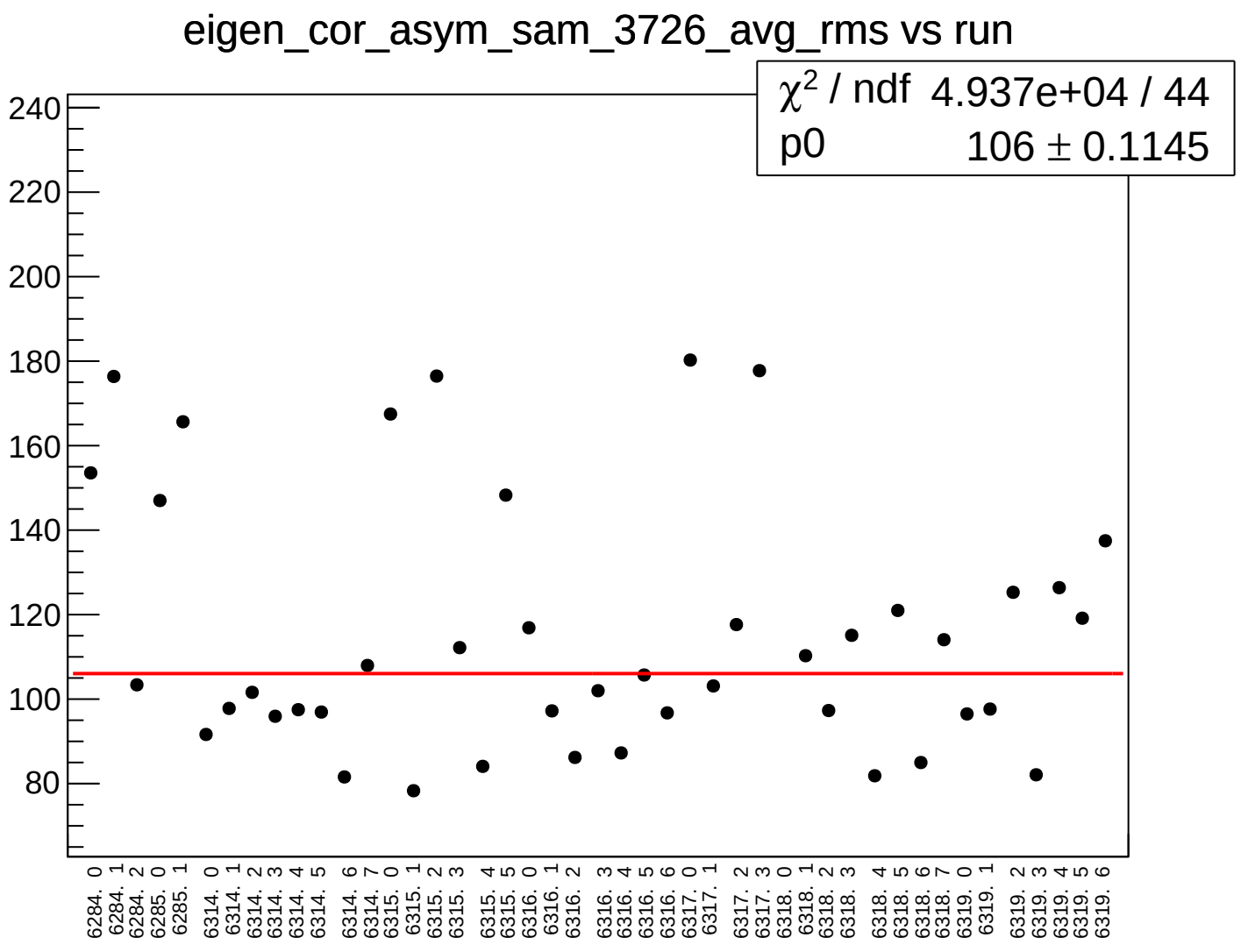
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.009493
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.937e+04 / 44
p0 106 ± 0.1145
240
220
200
180
160
140
120
100
80
6284. 0
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6317. 2
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6318. 2
6318. 3
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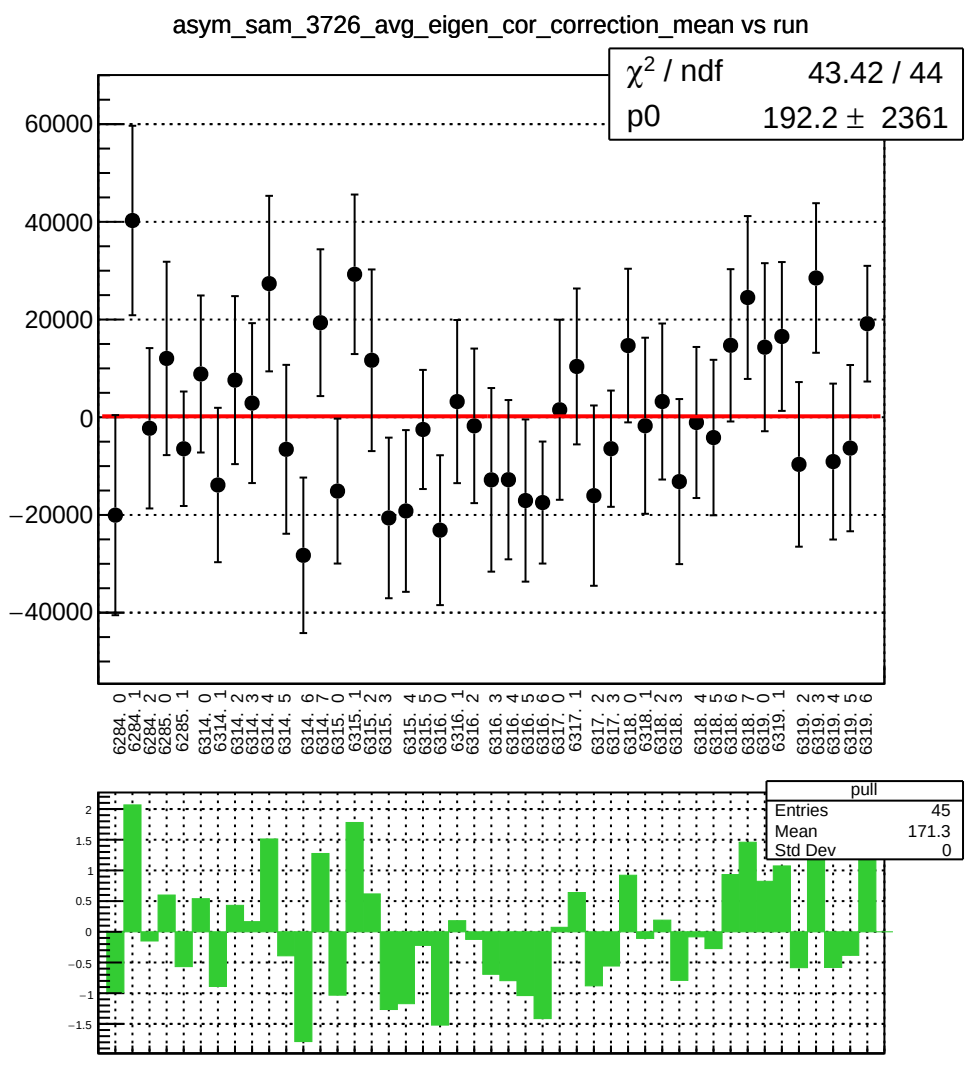
6319. 5
6319. 6


asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 43.42 / 44
p0 192.2 ± 2361
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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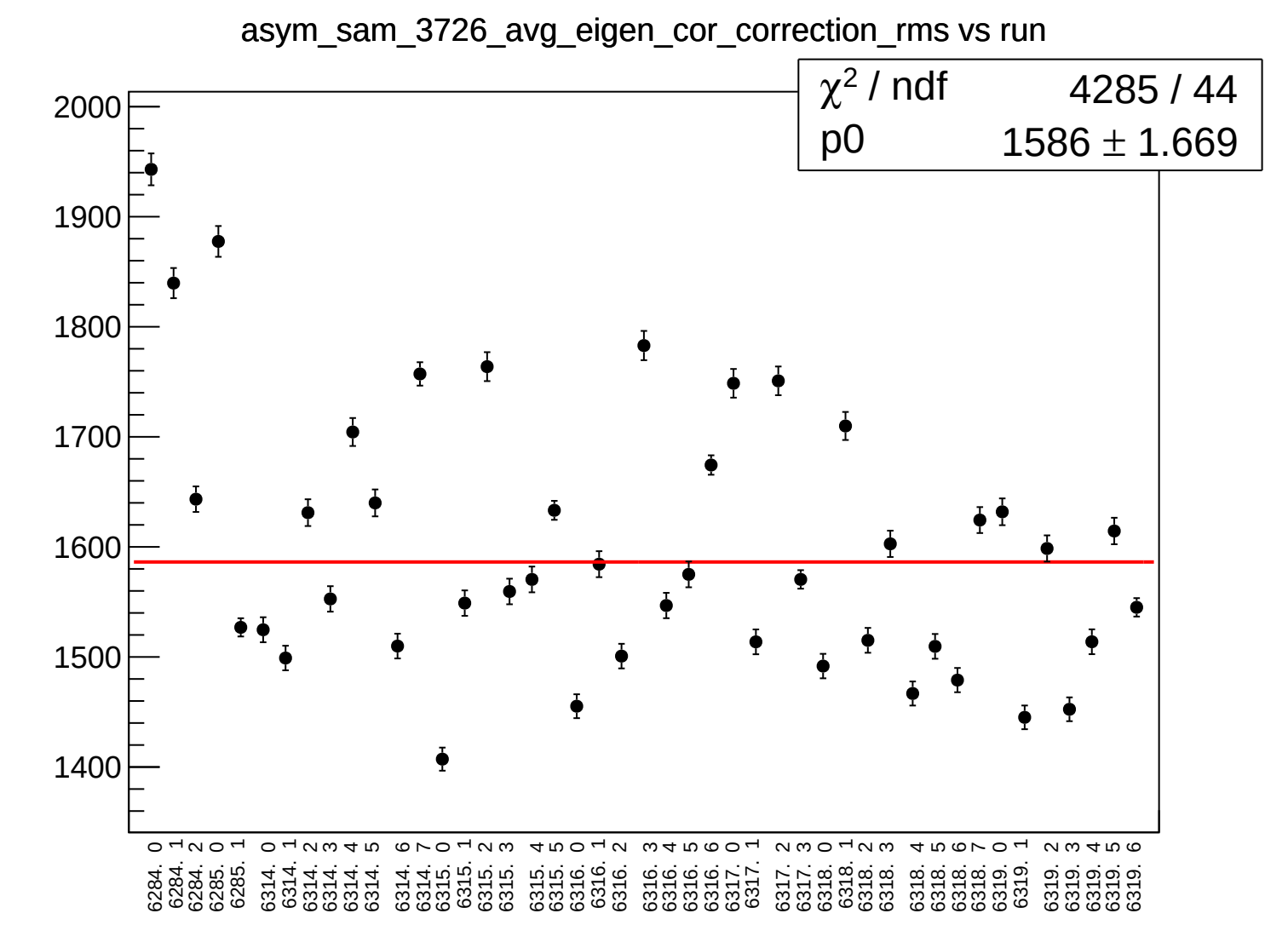
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 171.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009937
Std Dev 0.9823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4285 / 44
p0 1586 ± 1.669
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 3
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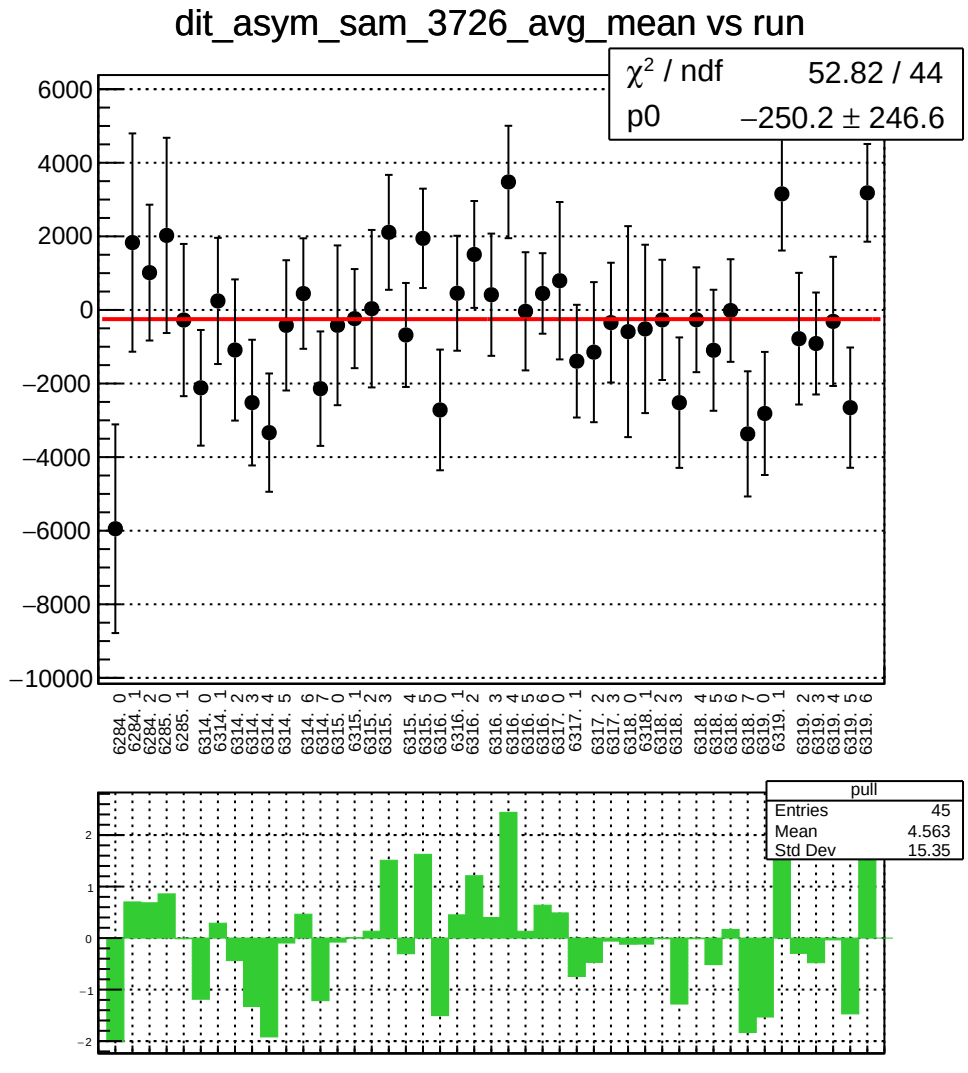
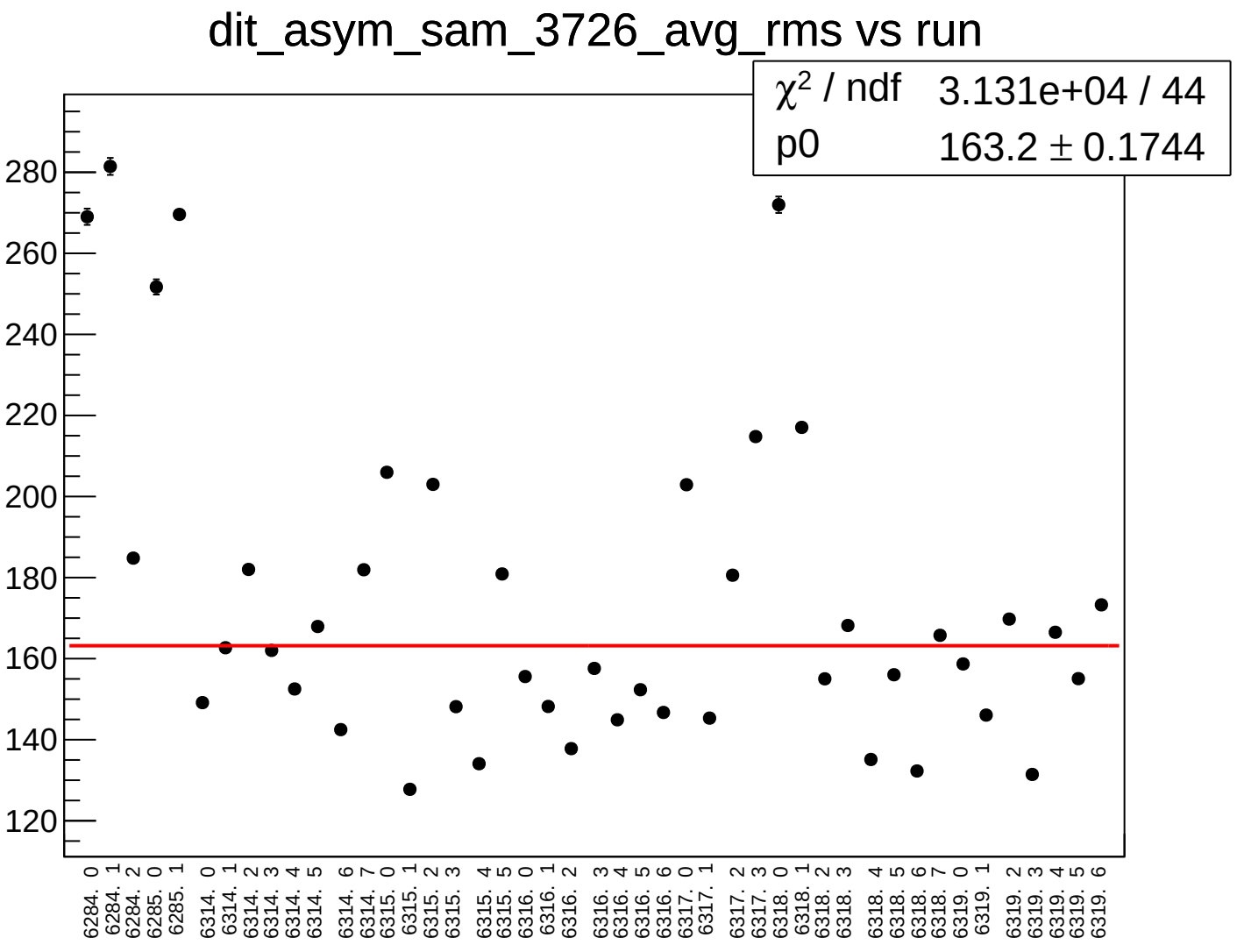
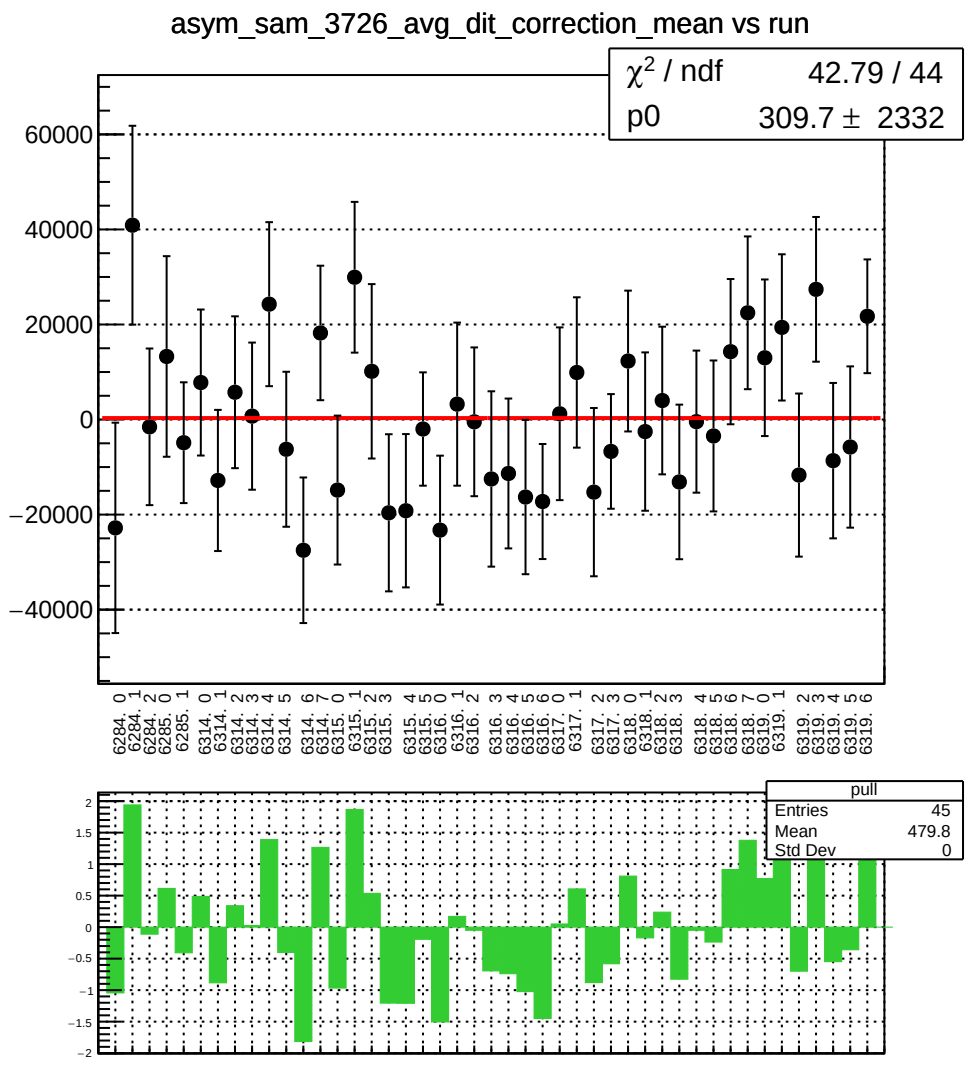
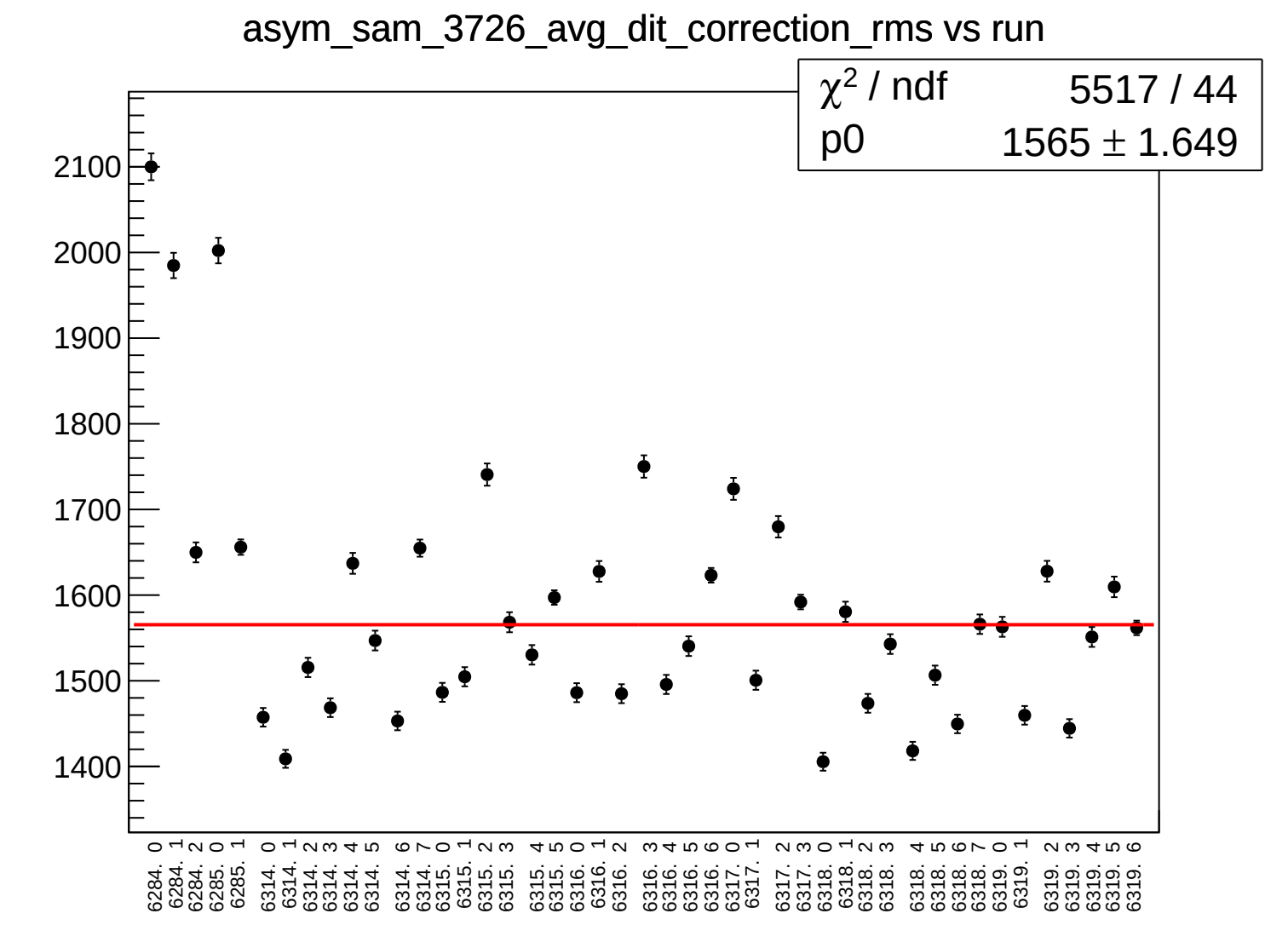
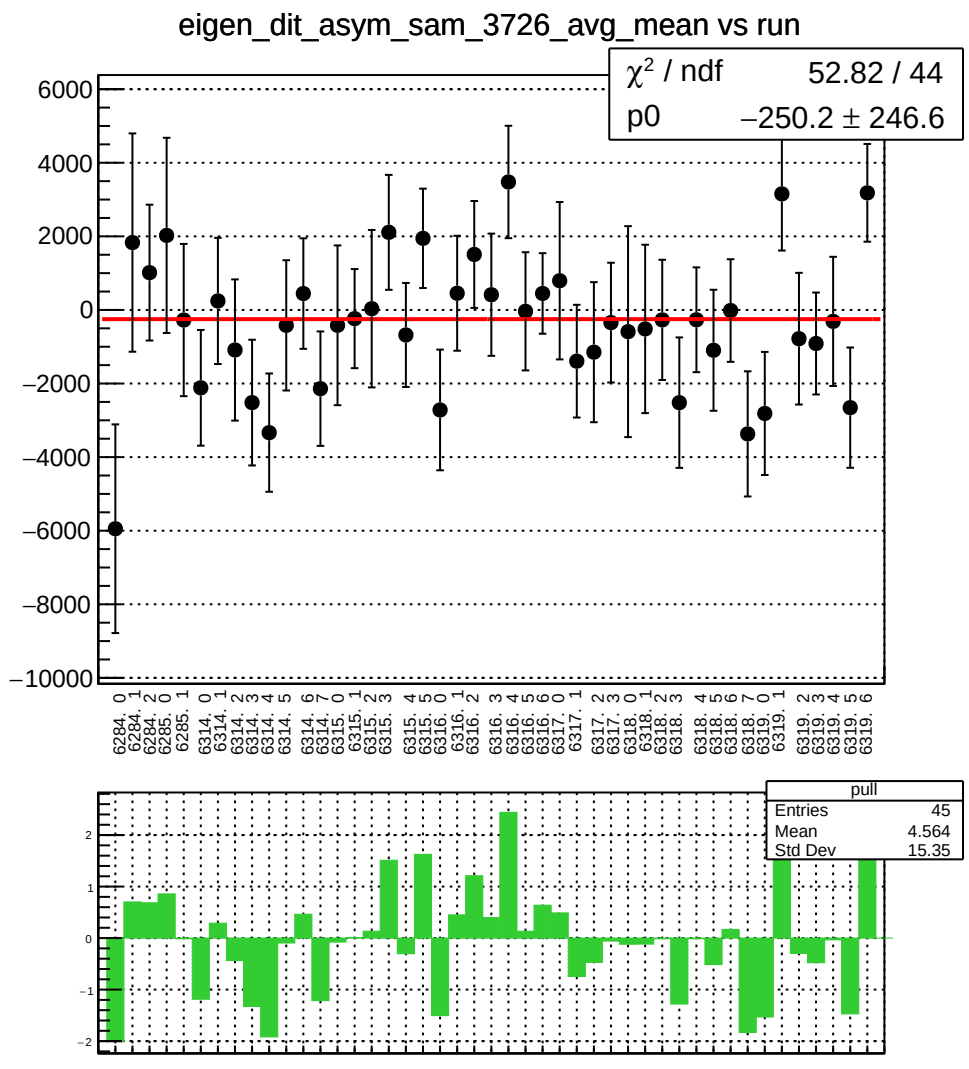
6319. 6

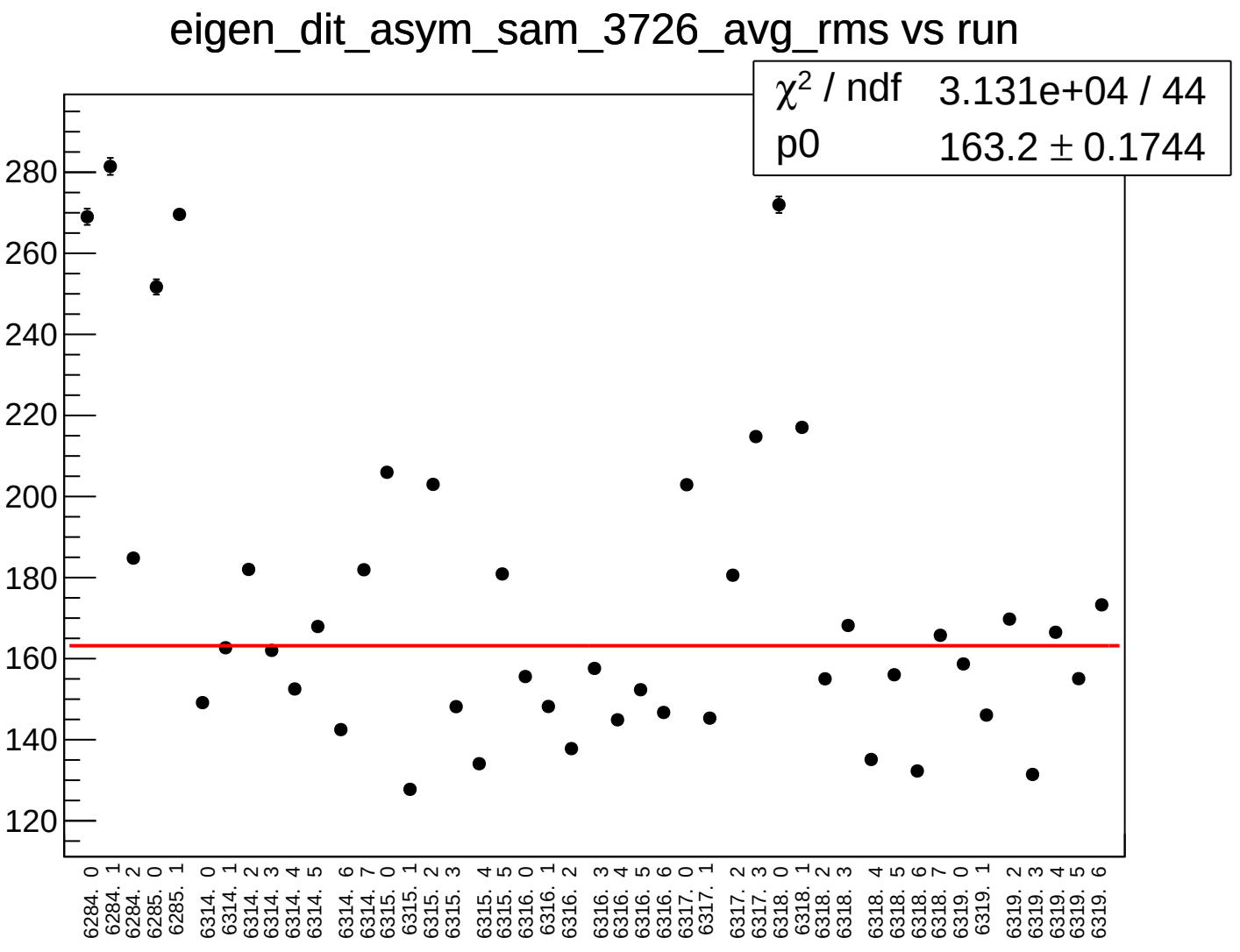

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 52.82 / 44
p0 −250.2 ± 246.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.563
Std Dev 15.35
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04574
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.131e+04 / 44
p0 163.2 ± 0.1744
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

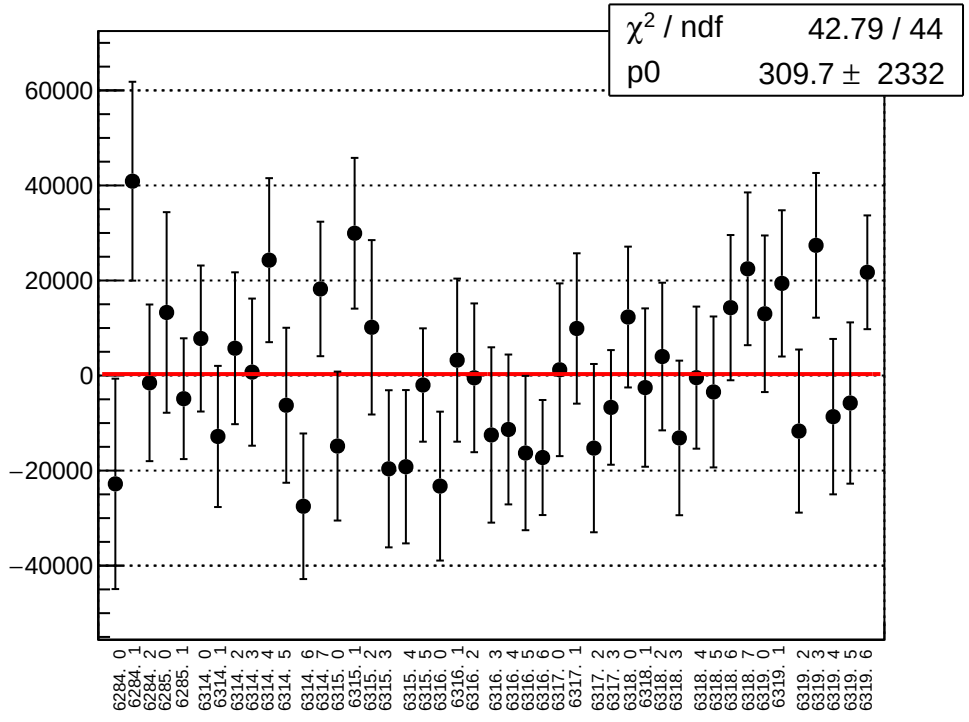

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 42.79 / 44
p0 309.7 ± 2332
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 479.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003555
Std Dev 0.9752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

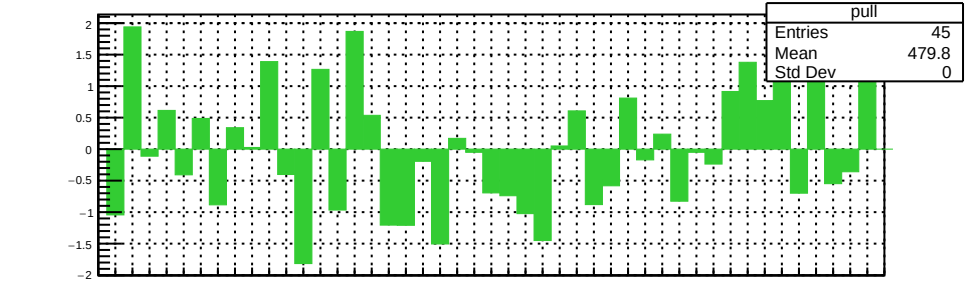

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 5517 / 44
p0 1565 ± 1.649
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

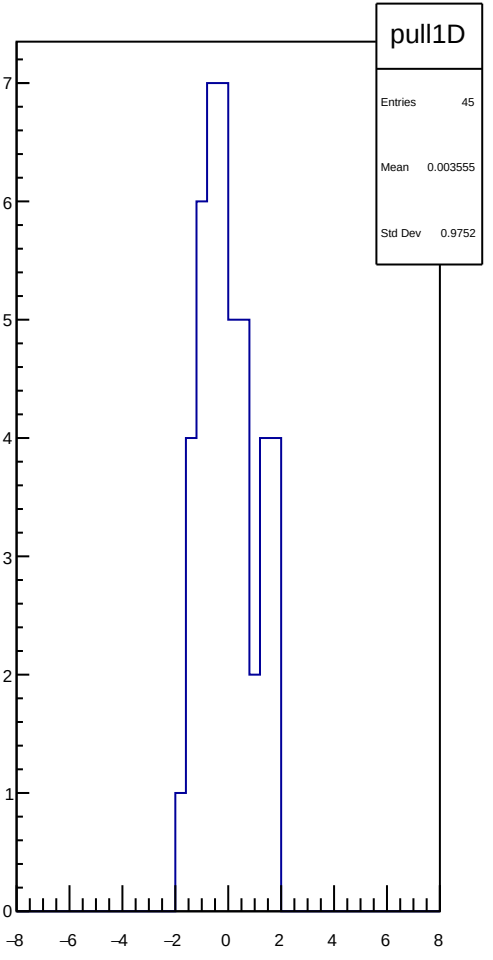

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 52.82 / 44
p0 −250.2 ± 246.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.564
Std Dev 15.35
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.04574
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

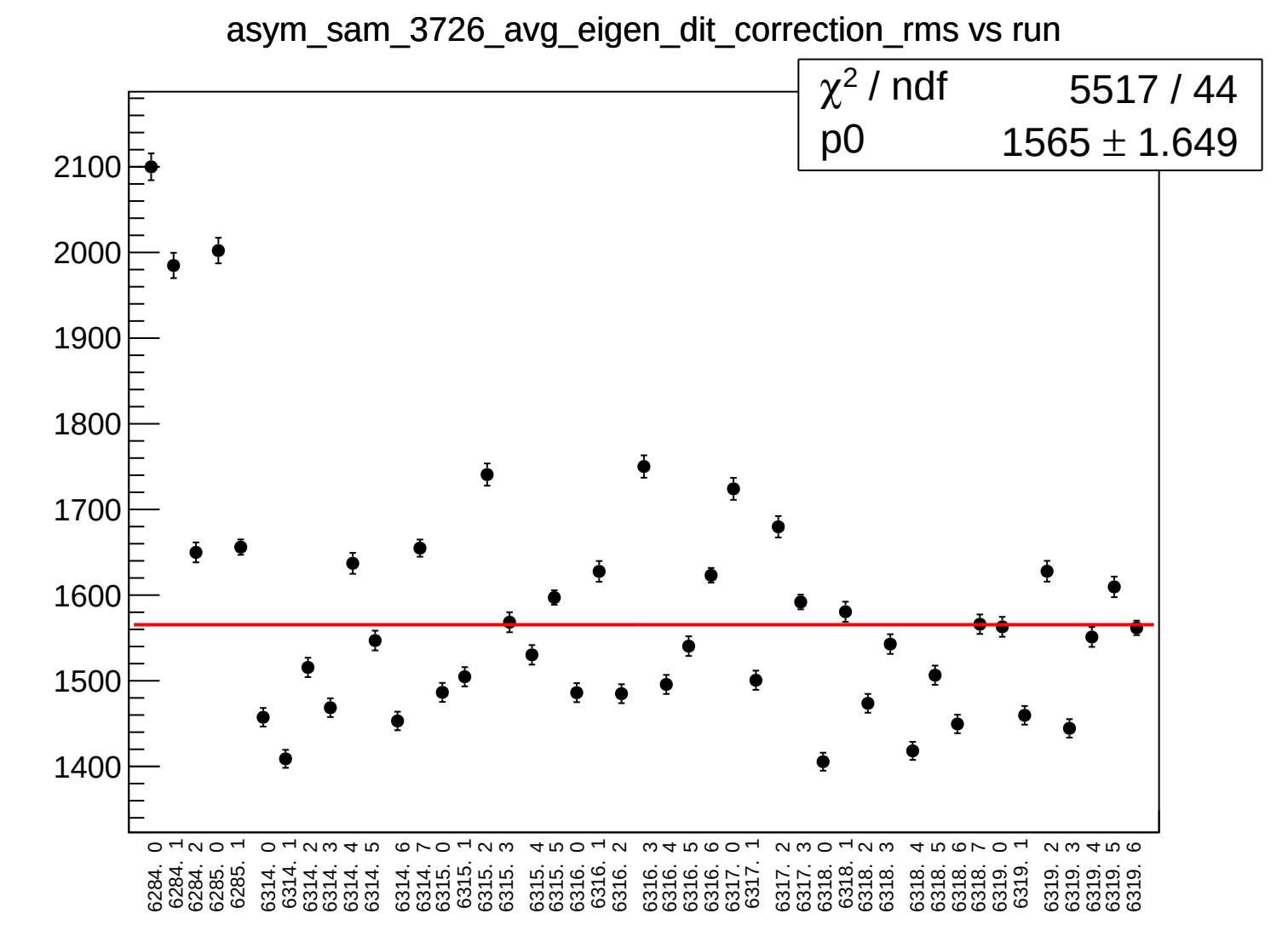

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.131e+04 / 44
p0 163.2 ± 0.1744
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

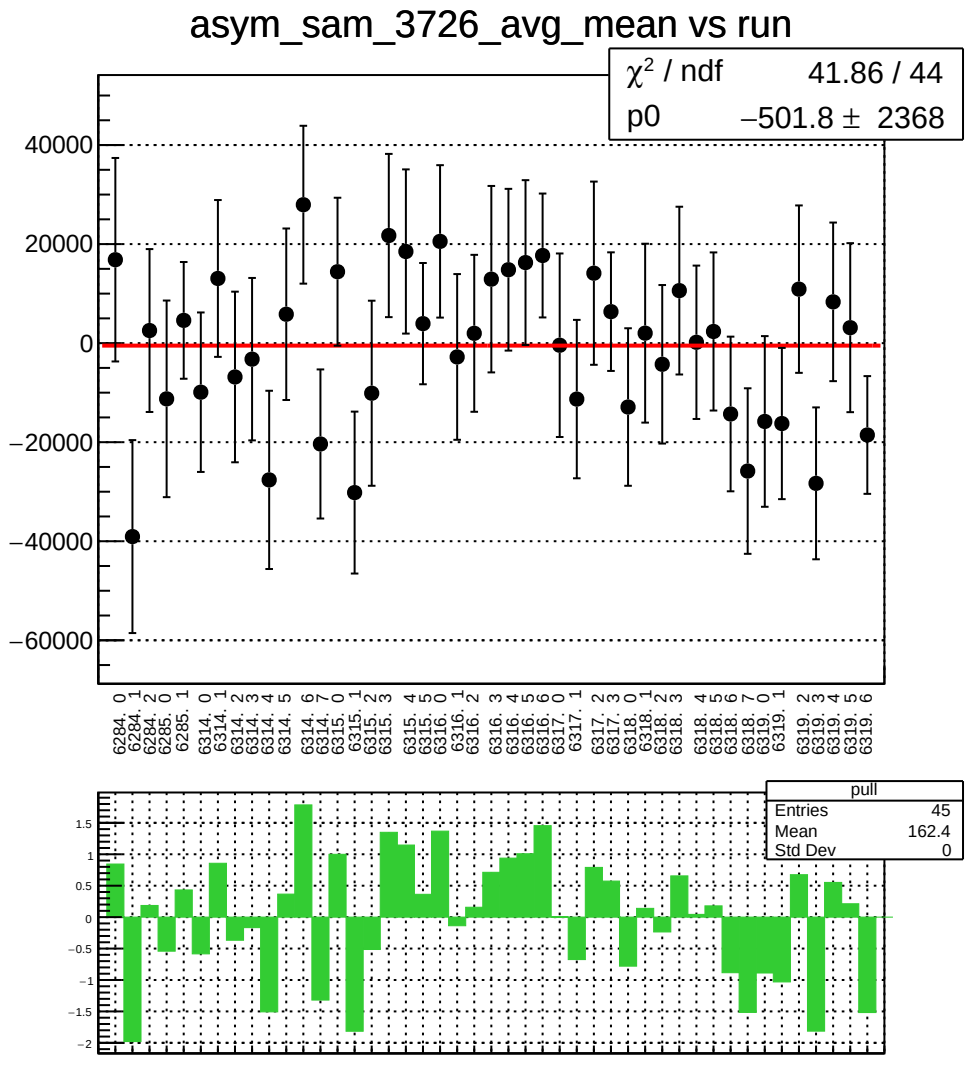
asym_sam_3726_avg_eigen_dit_correction_mean vs run

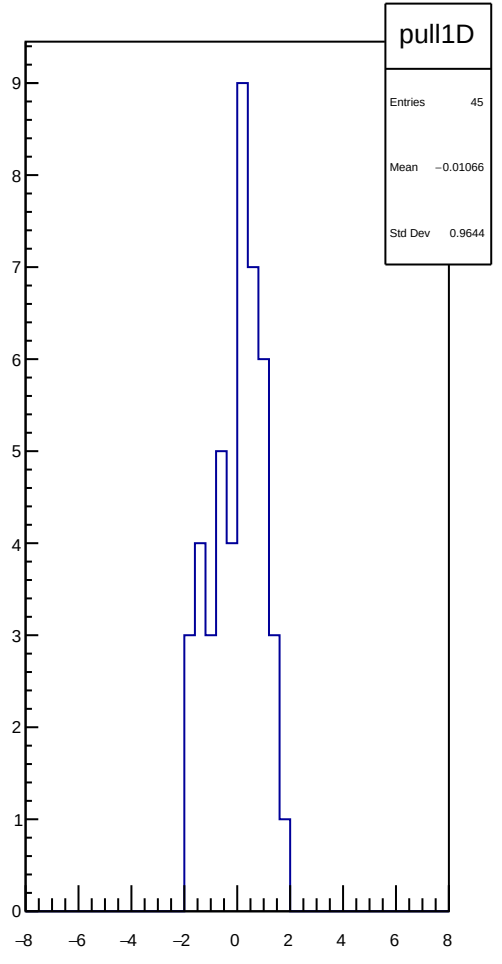


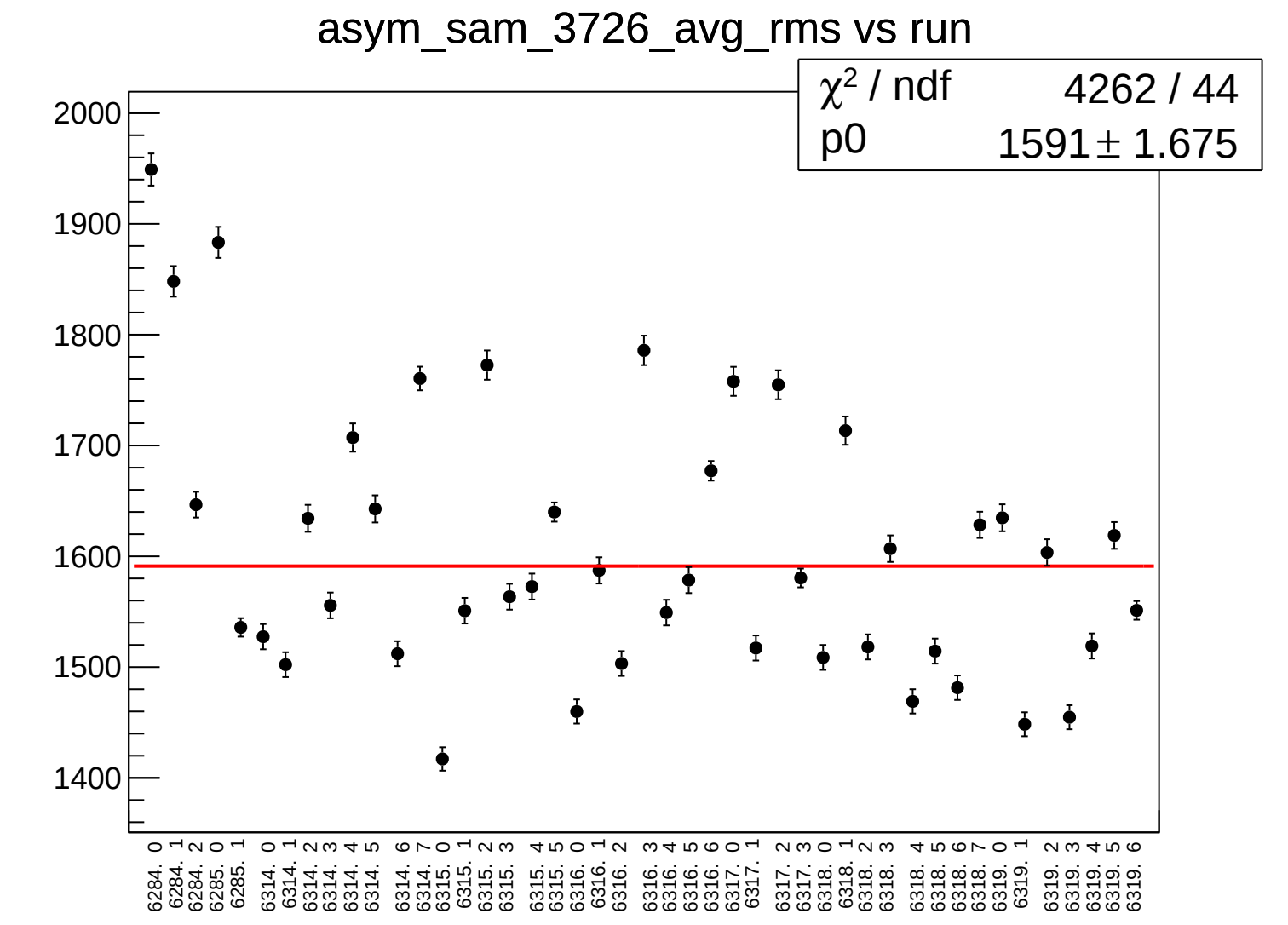





asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 5517 / 44
p0 1565 ± 1.649
2100
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_3726_avg_mean vs run
χ² / ndf 41.86 / 44
p0 −501.8 ± 2368
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 162.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01066
Std Dev 0.9644
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_rms vs run
χ² / ndf 4262 / 44
p0 1591 ± 1.675
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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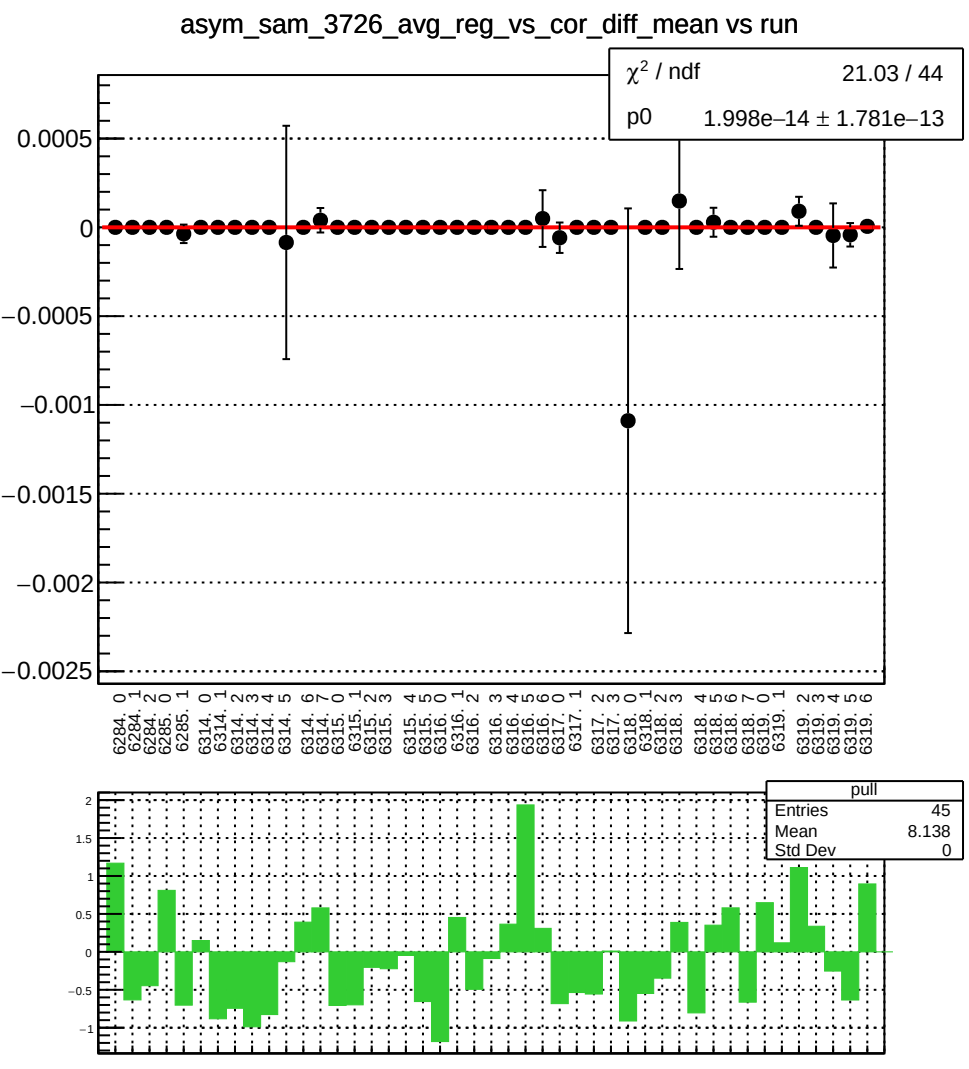
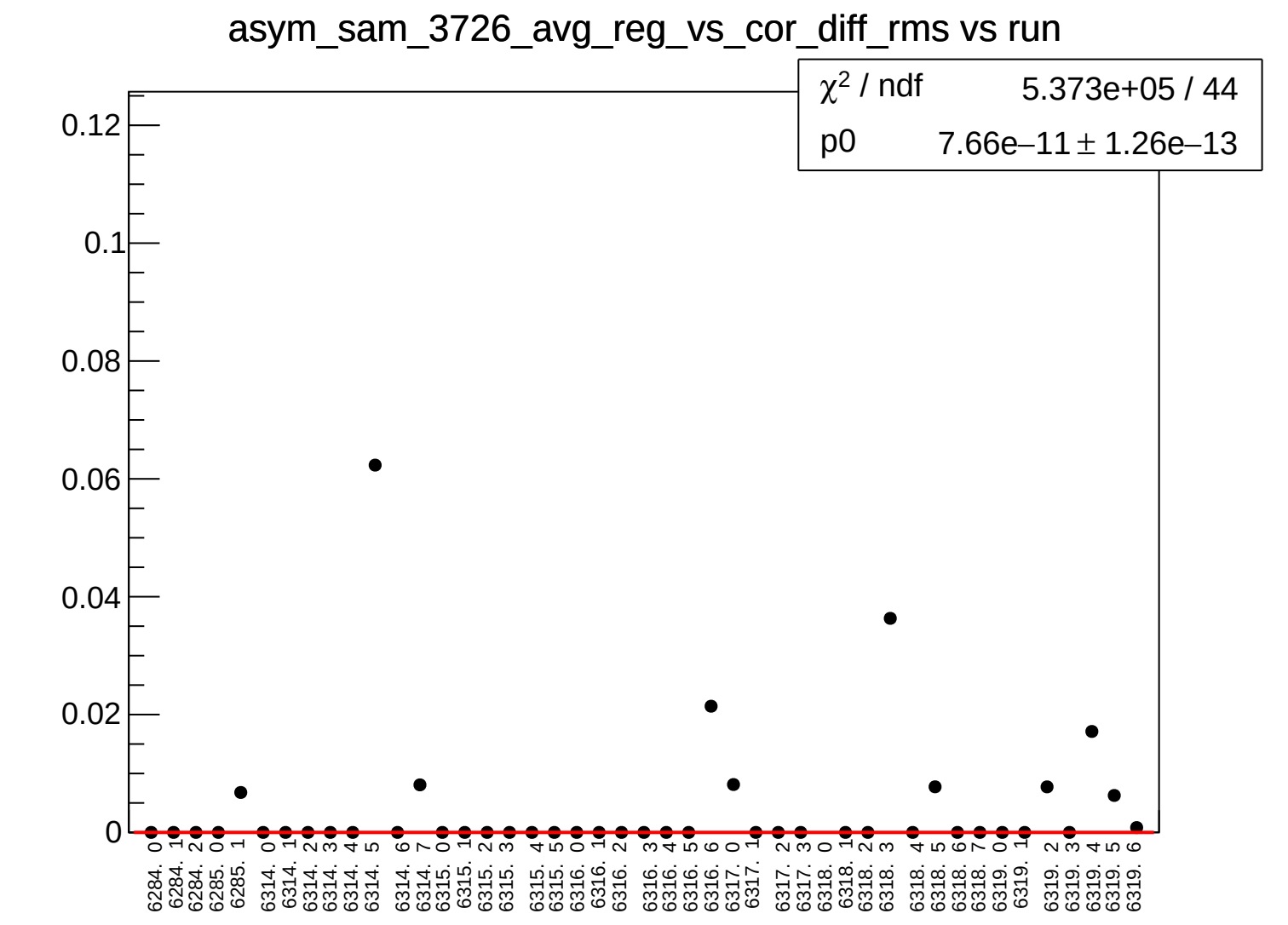
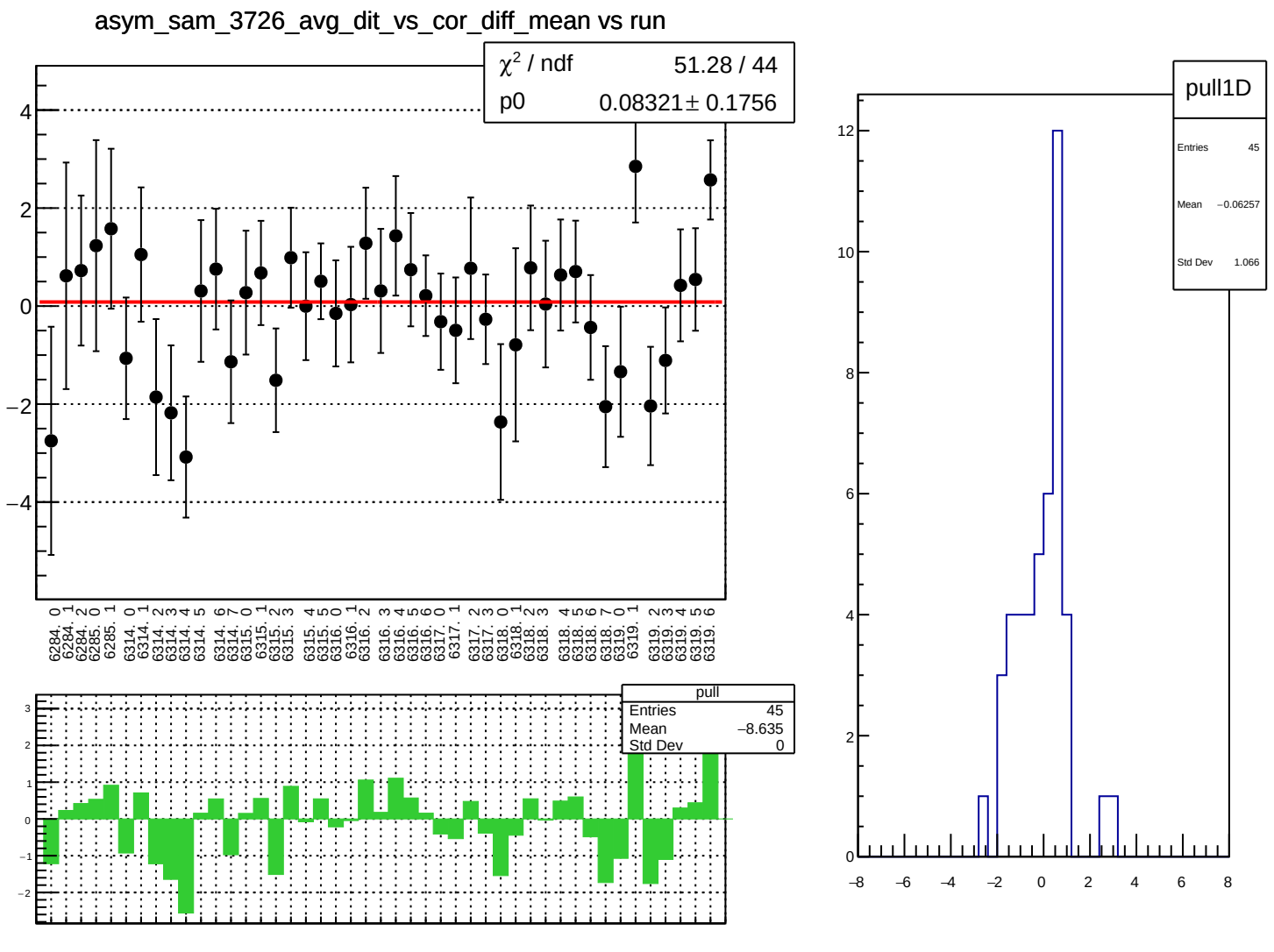
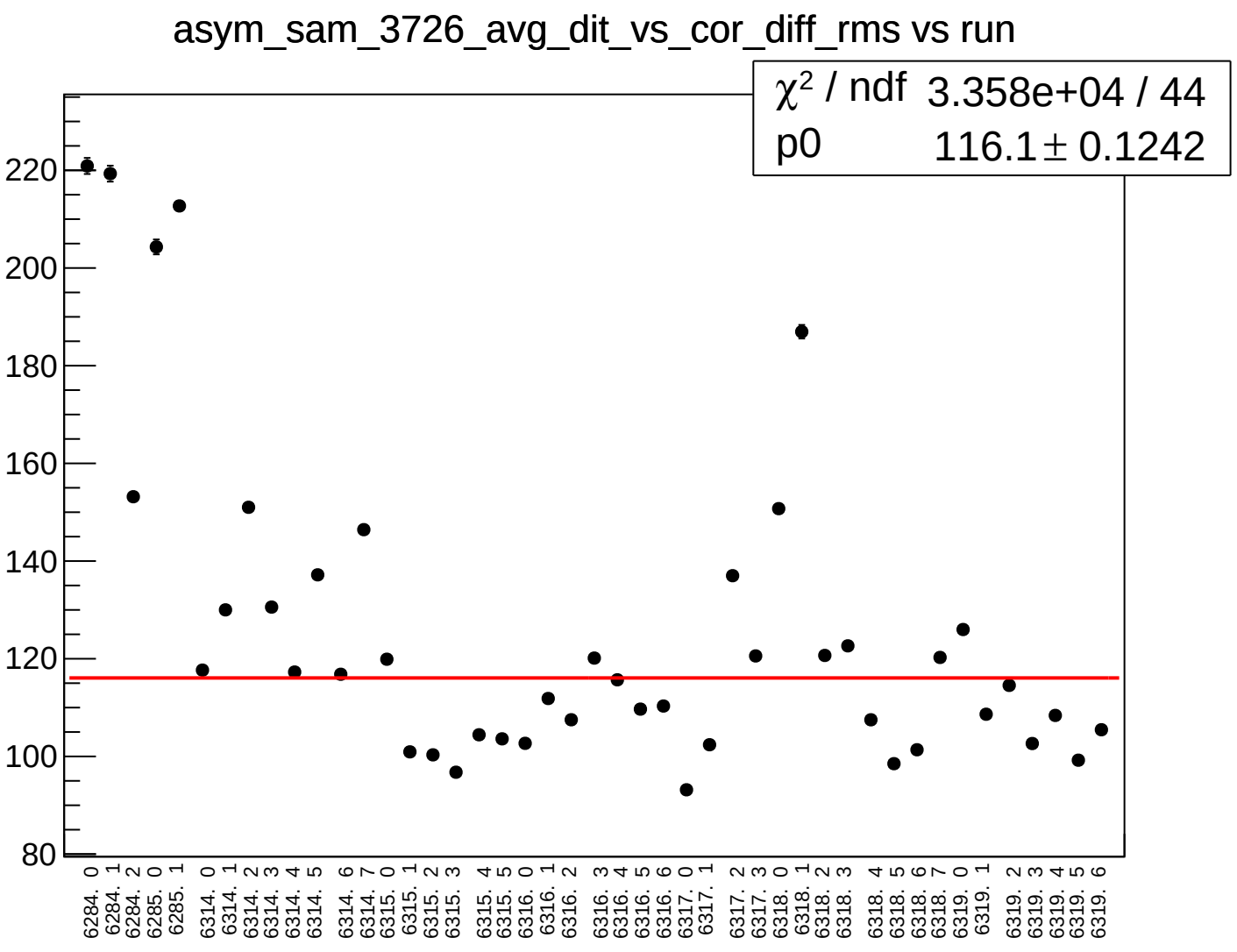
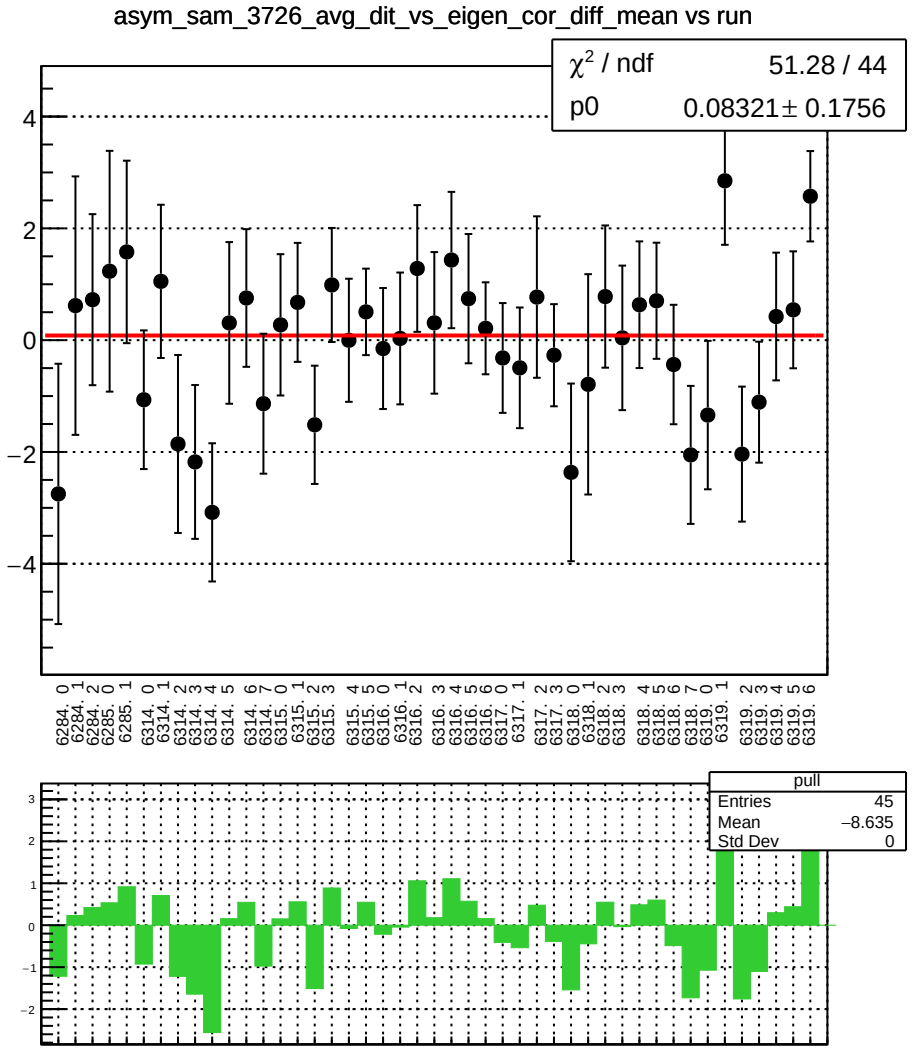
6319. 5
6319. 6

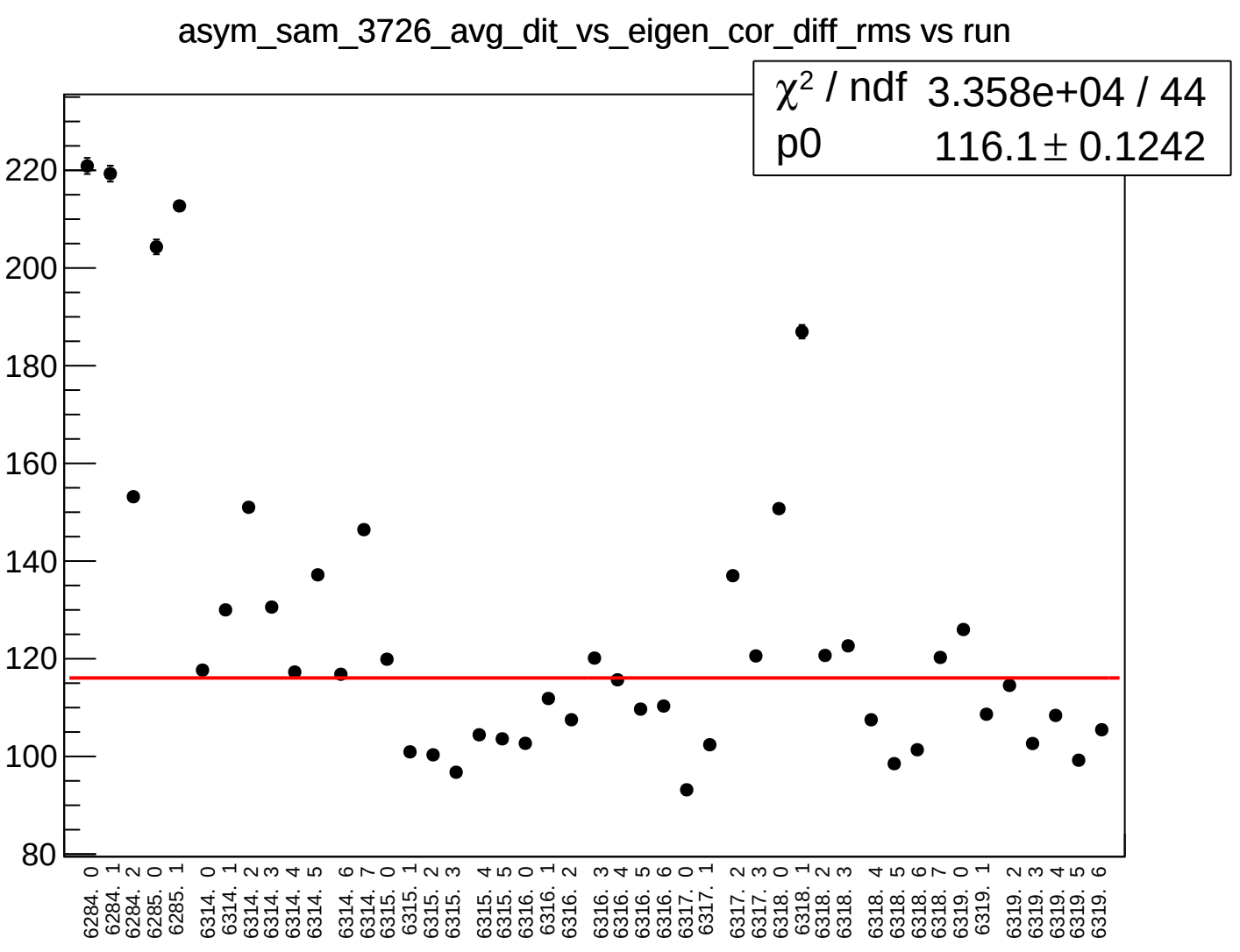

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.03 / 44
p0 1.998e−14 ± 1.781e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 8.138
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.1105
Std Dev 0.6746
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

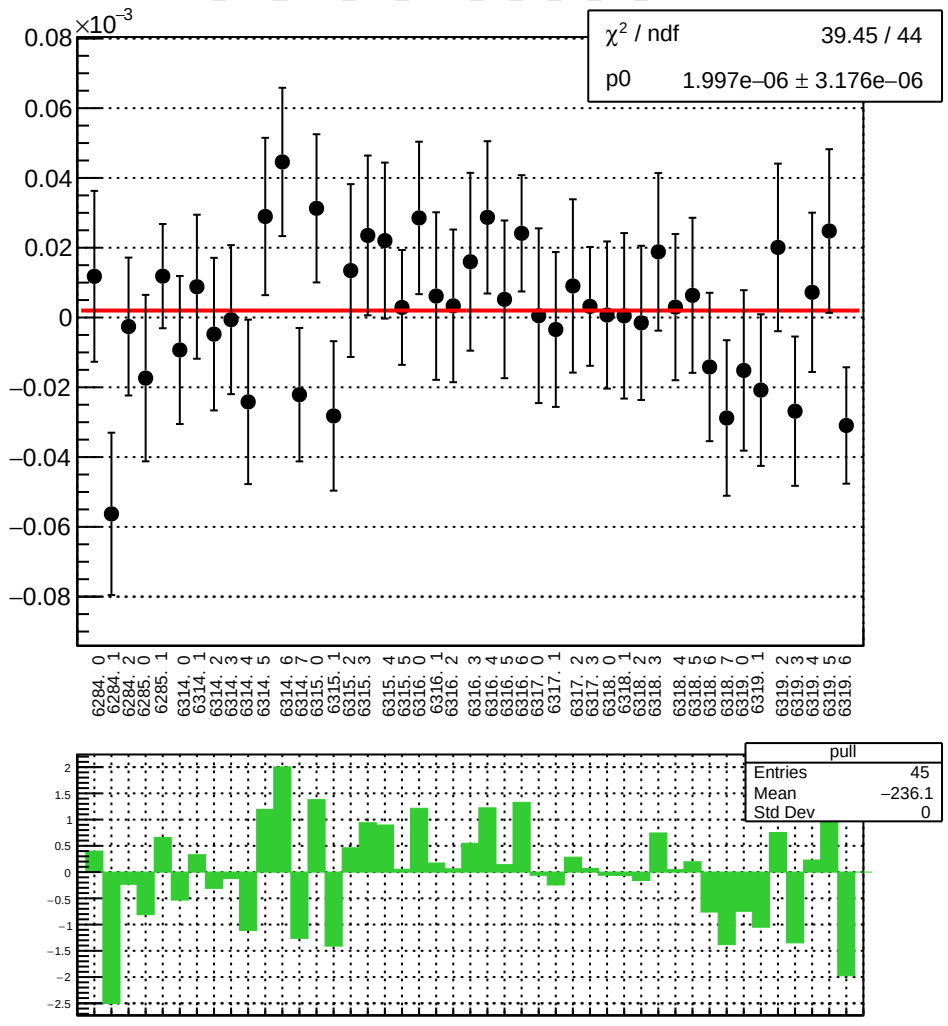

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.373e+05 / 44
p0 7.66e−11 ± 1.26e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

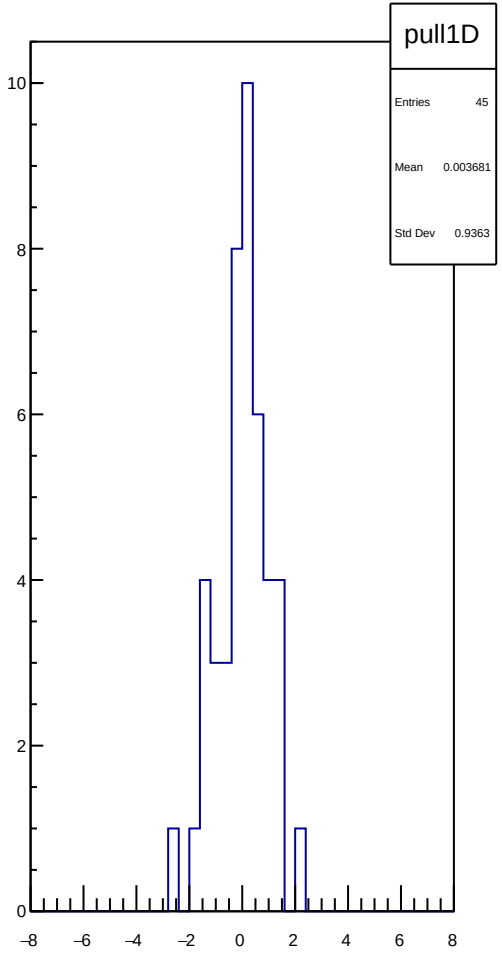

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.28 / 44
p0 0.08321 ± 0.1756
pull
Entries 45
Mean −8.635
Std Dev 0
pull1D
Entries 45
Mean −0.06257
Std Dev 1.066

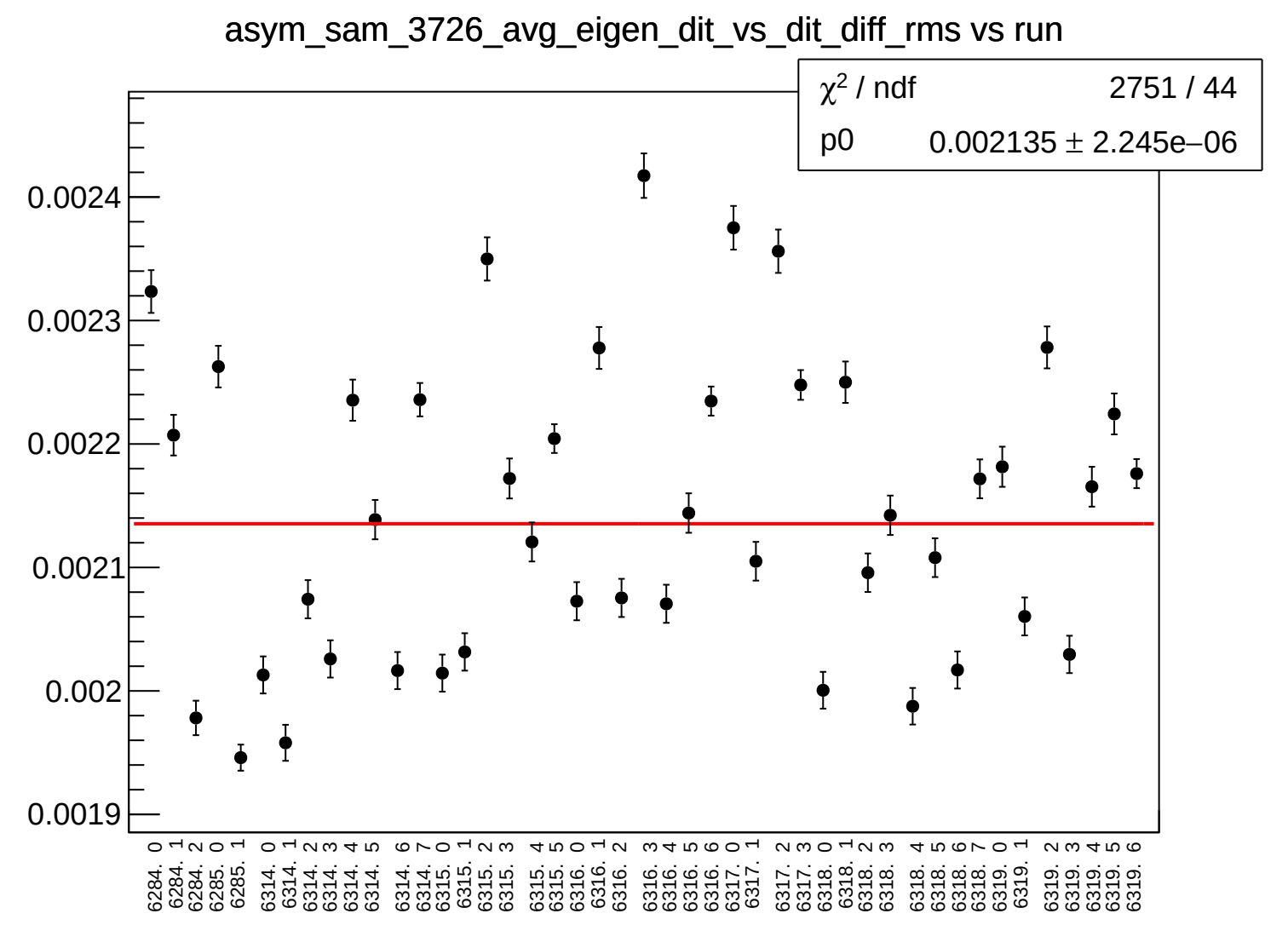

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.358e+04 / 44
p0 116.1 ± 0.1242
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

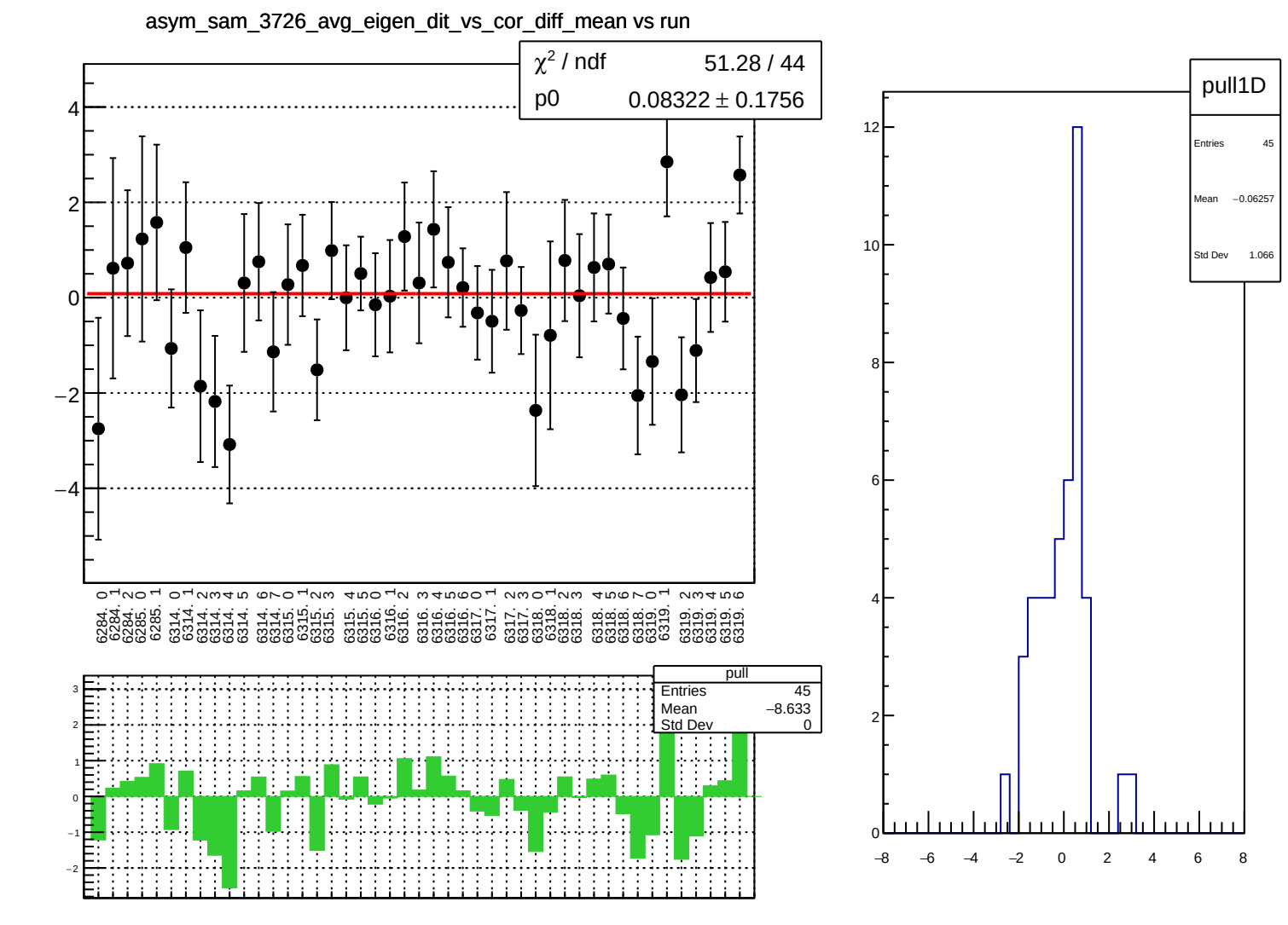

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.28 / 44
p0 0.08321 ± 0.1756
pull
Entries 45
Mean −8.635
Std Dev 0
pull1D
Entries 45
Mean −0.06257
Std Dev 1.066

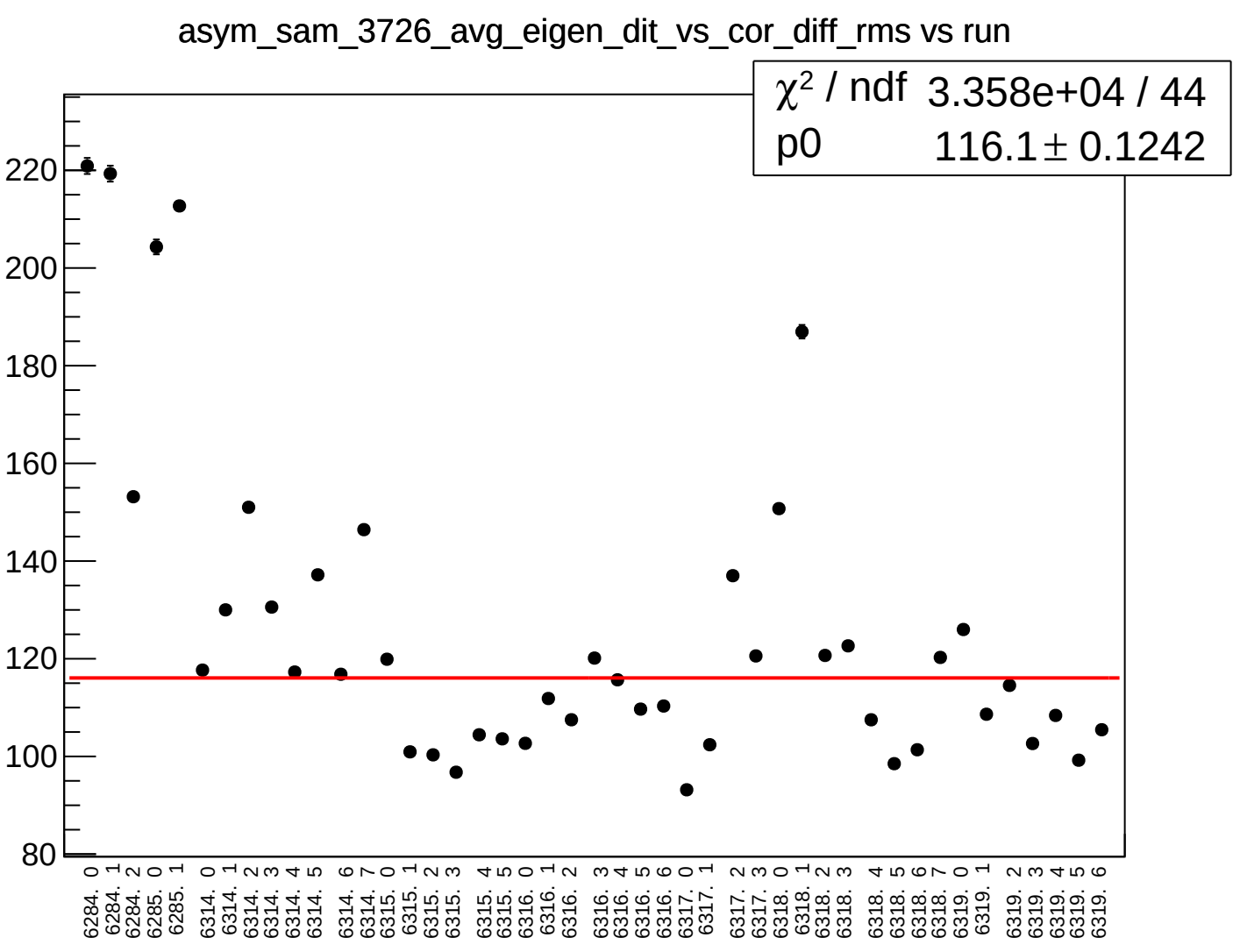

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.358e+04 / 44
p0 116.1 ± 0.1242
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

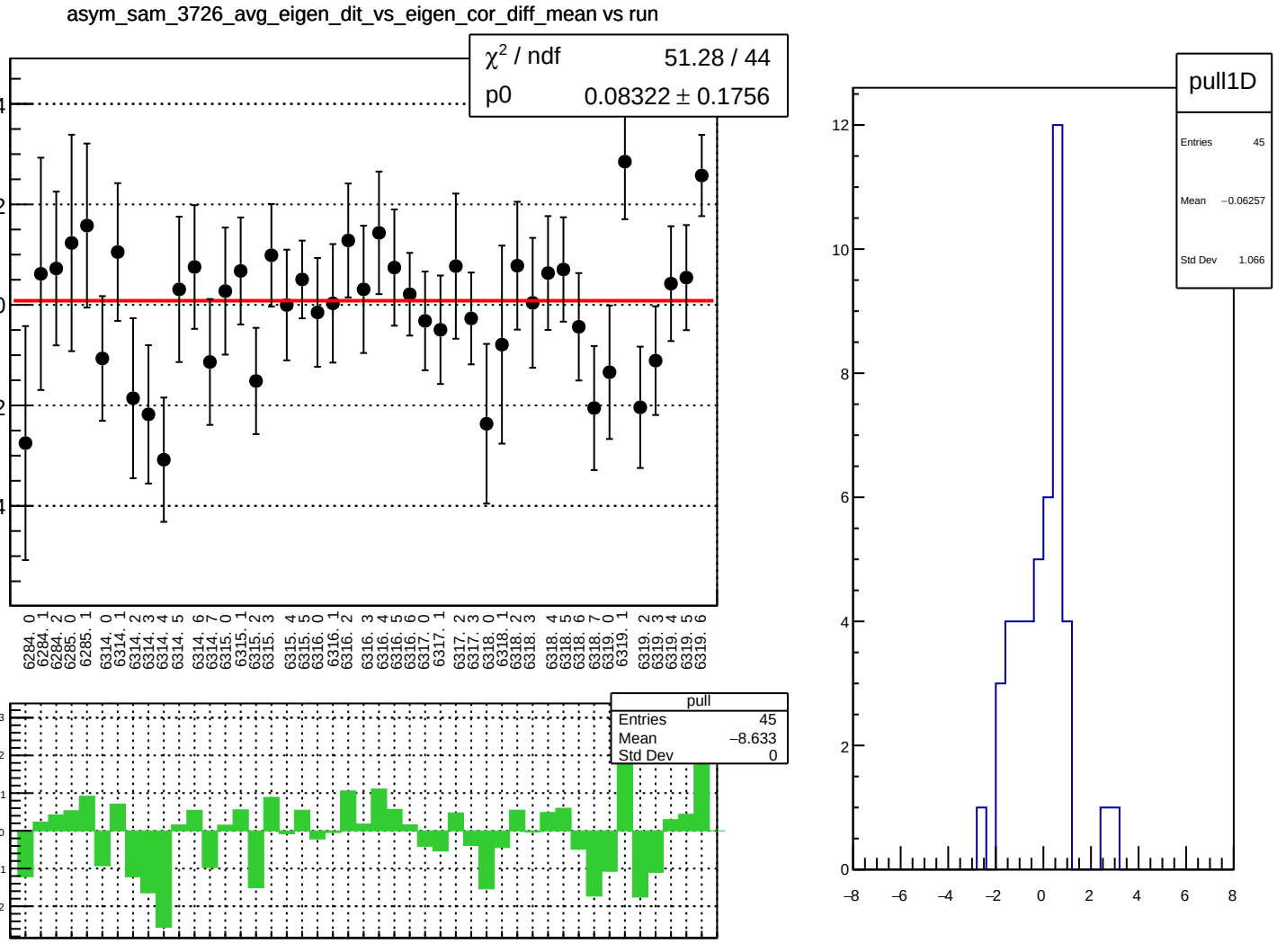

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 39.45 / 44
p0 1.997e−06 ± 3.176e−06
×10⁻³
pull
Entries 45
Mean −236.1
Std Dev 0

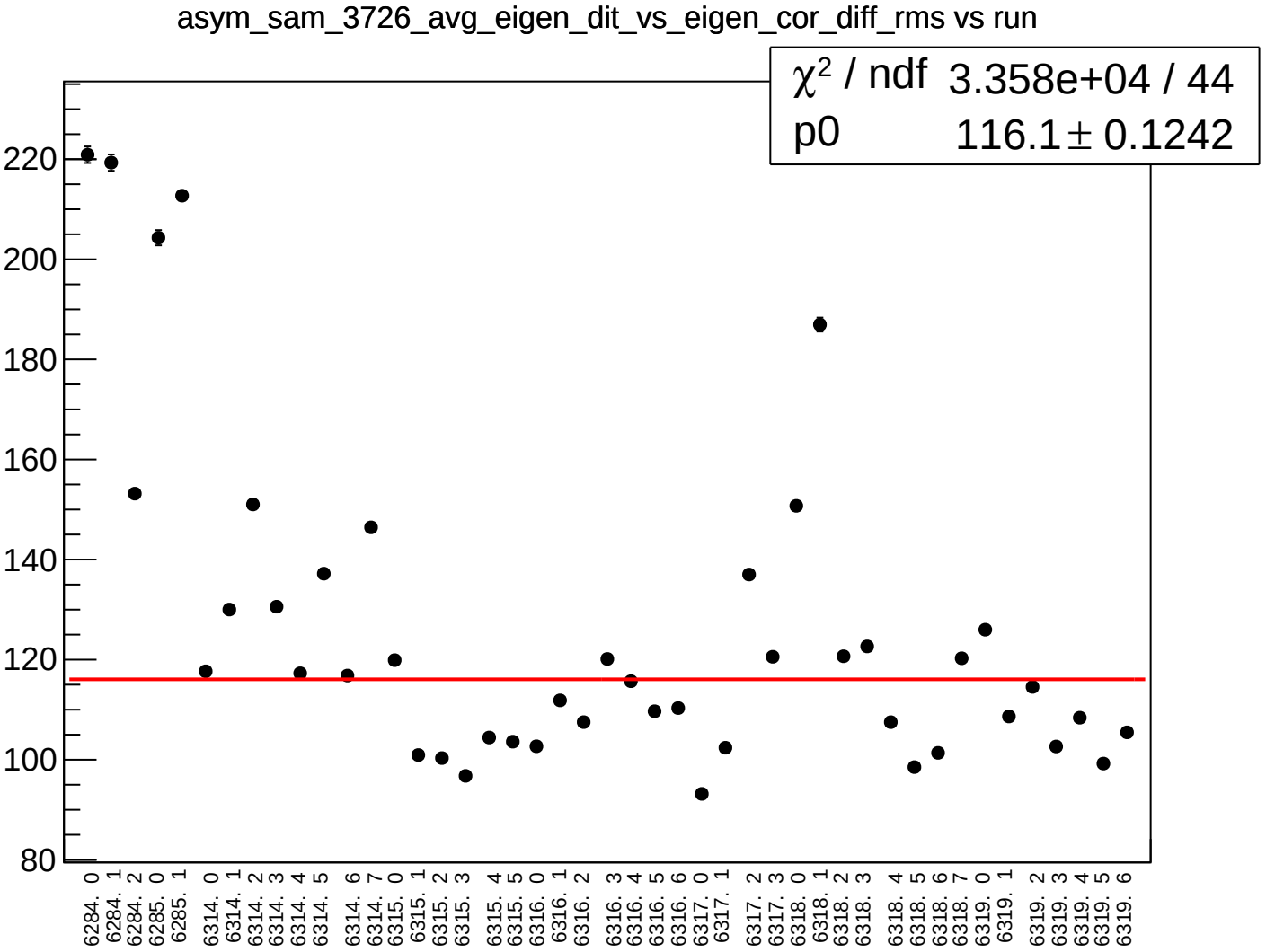

pull1D
Entries 45
Mean 0.003681
Std Dev 0.9363

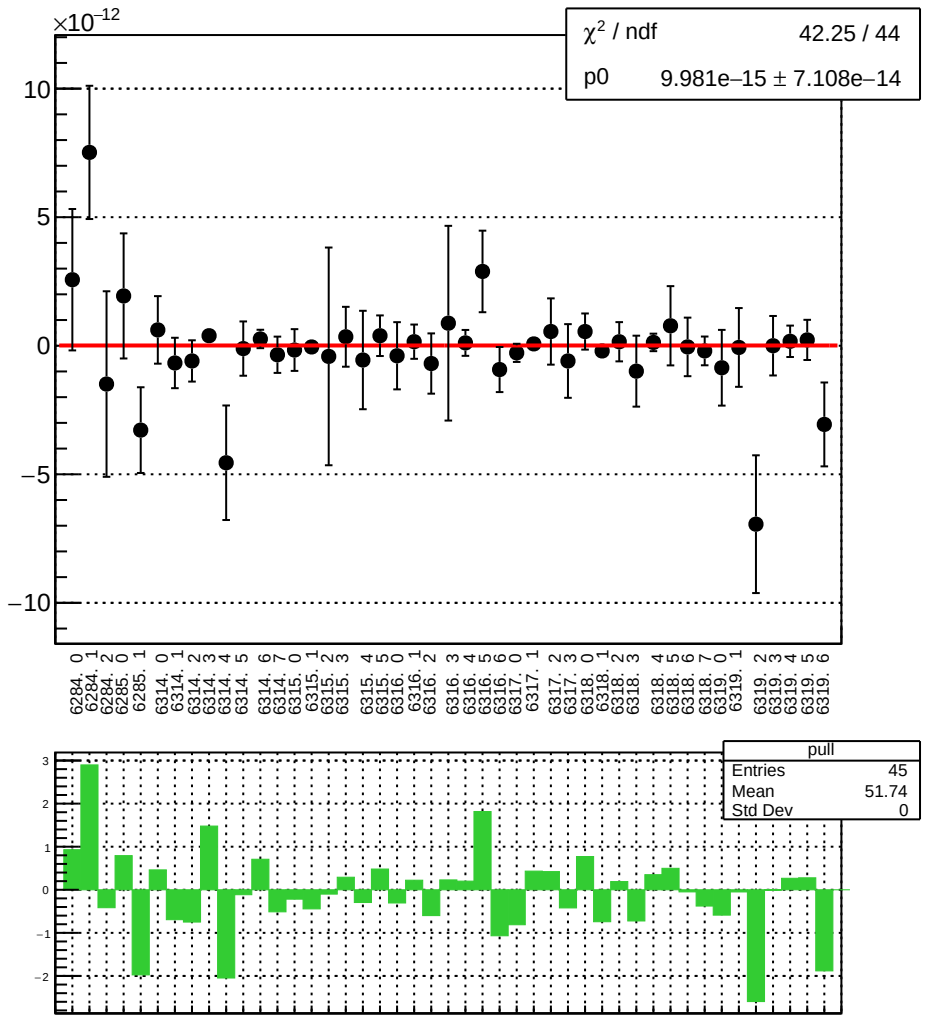

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2751 / 44
p0 0.002135 ± 2.245e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

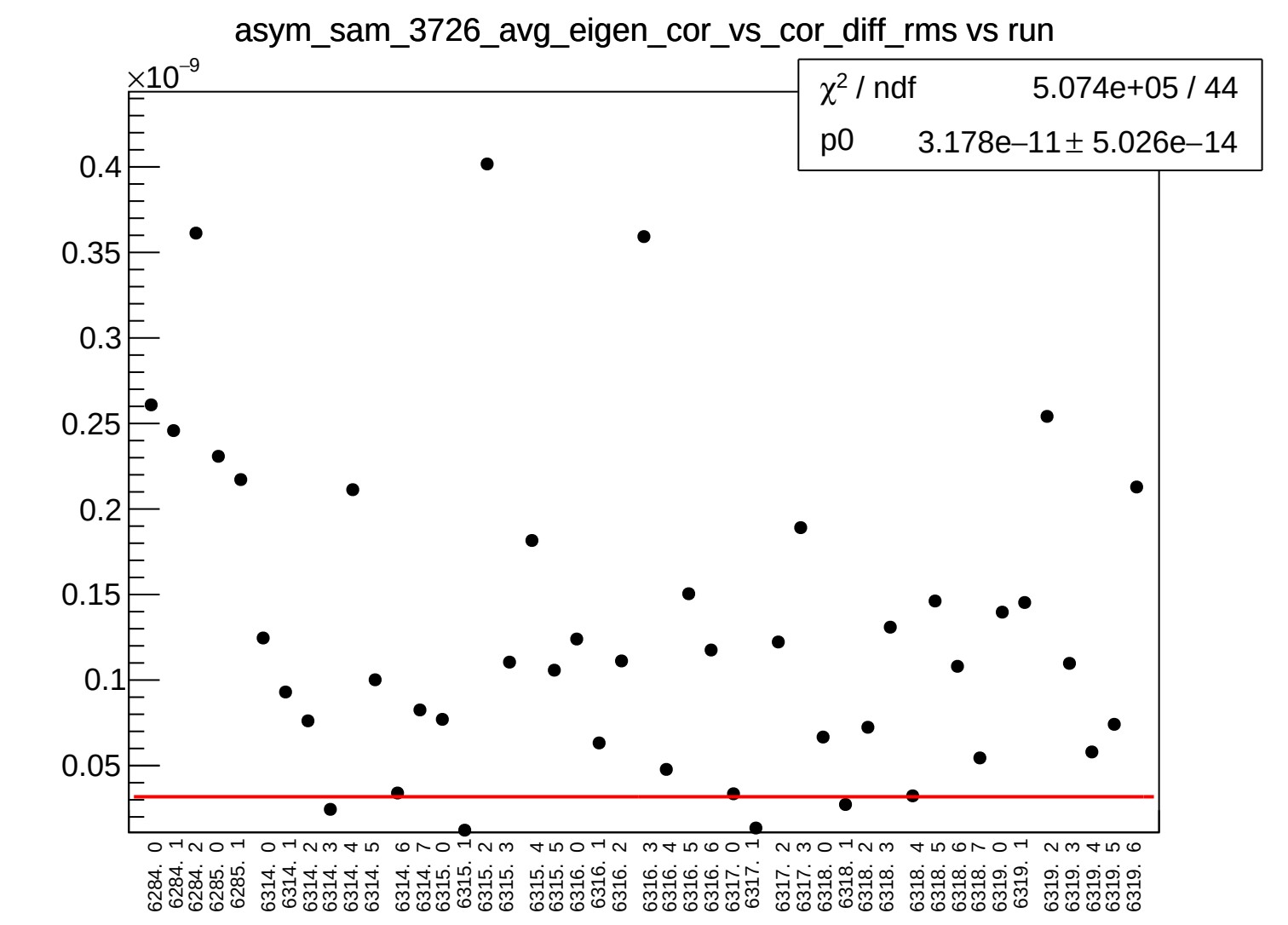

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.28 / 44
p0 0.08322 ± 0.1756
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −8.633
Std Dev 0
pull1D
Entries 45
Mean −0.06257
Std Dev 1.066

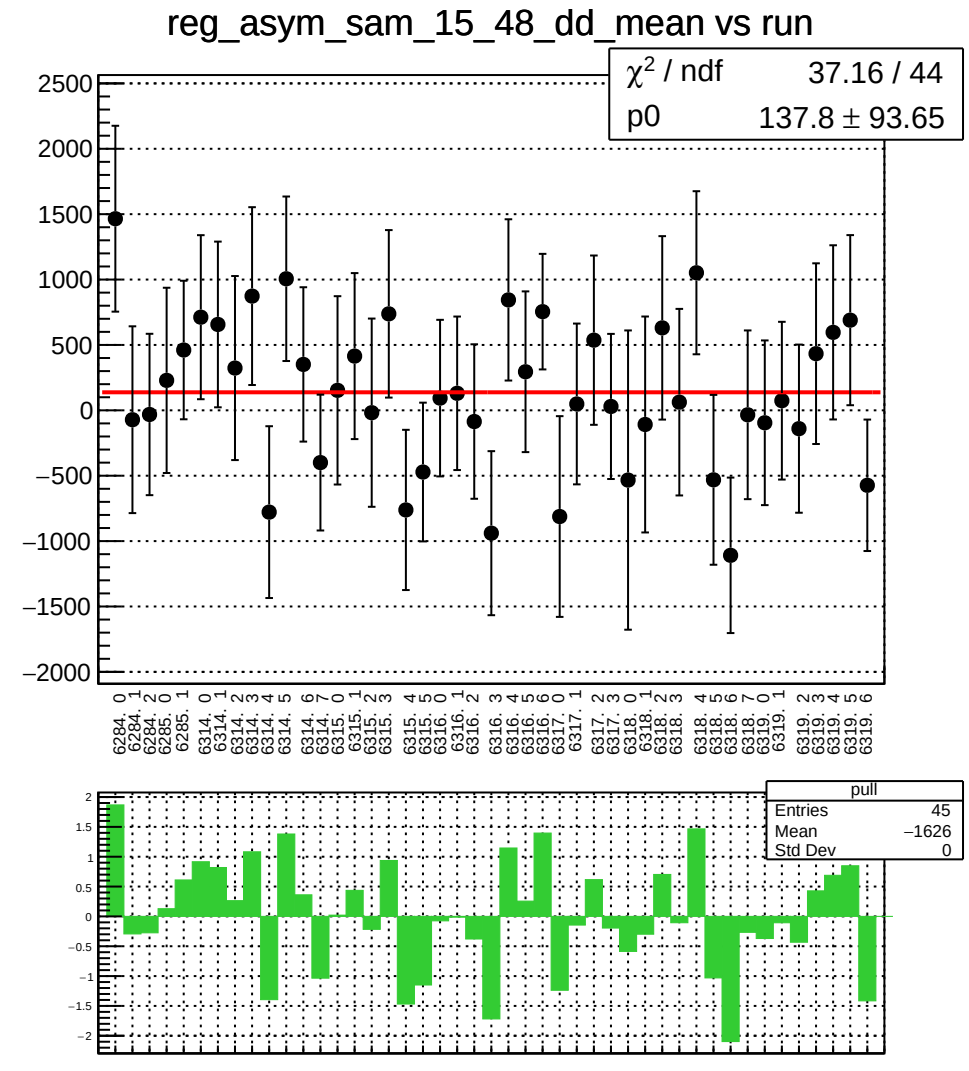

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.358e+04 / 44
p0 116.1 ± 0.1242
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

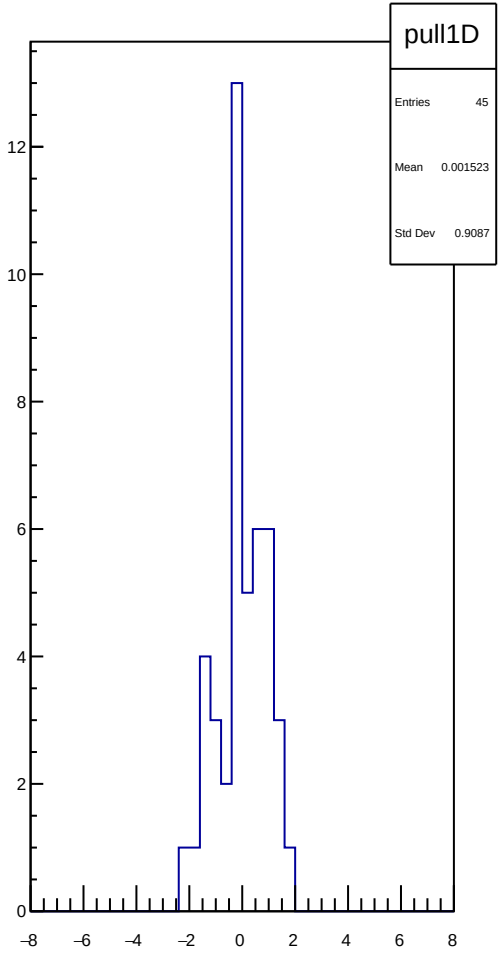

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.28 / 44
p0 0.08322 ± 0.1756
pull
Entries 45
Mean −8.633
Std Dev 0
pull1D
Entries 45
Mean −0.06257
Std Dev 1.066

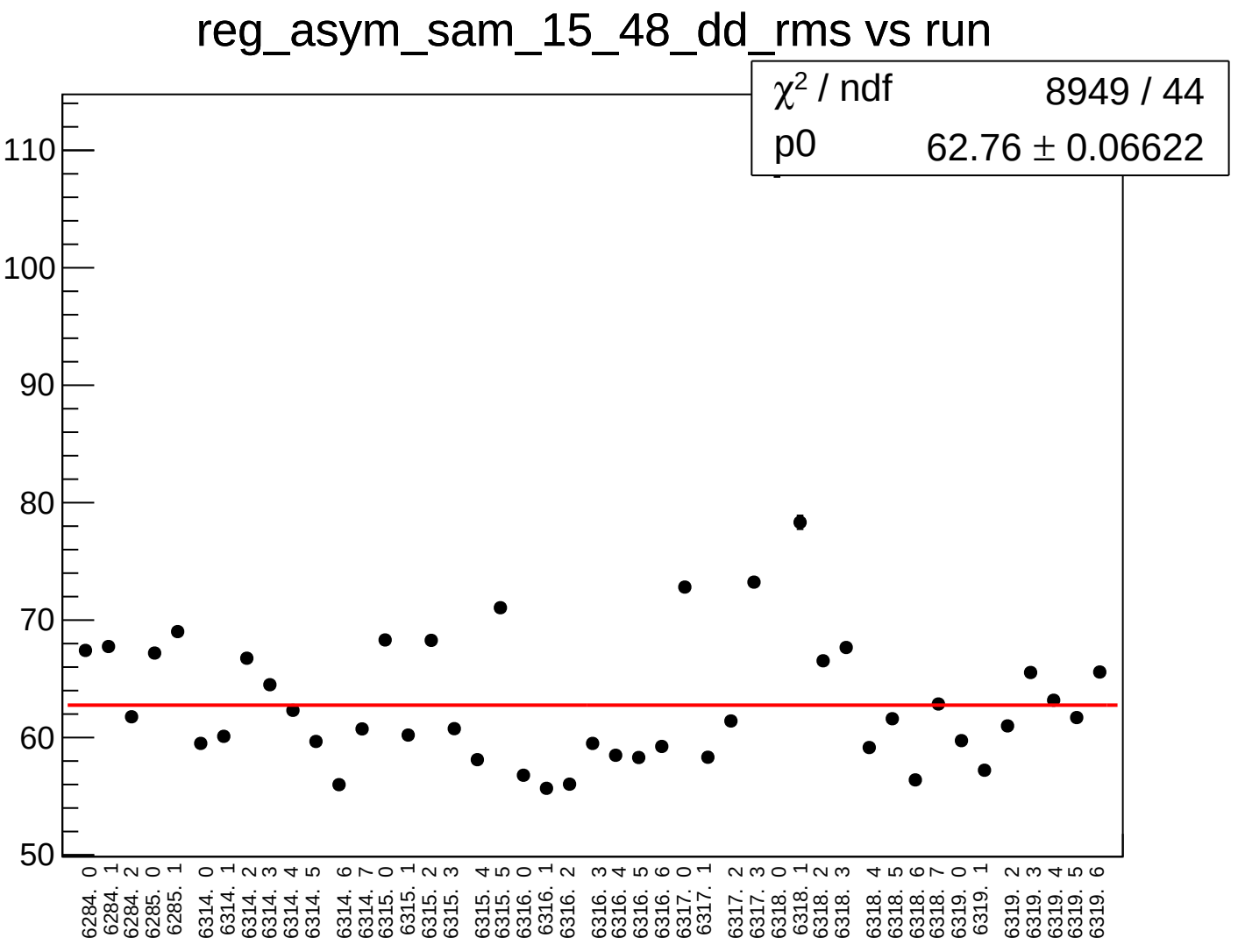

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.358e+04 / 44
p0 116.1 ± 0.1242
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

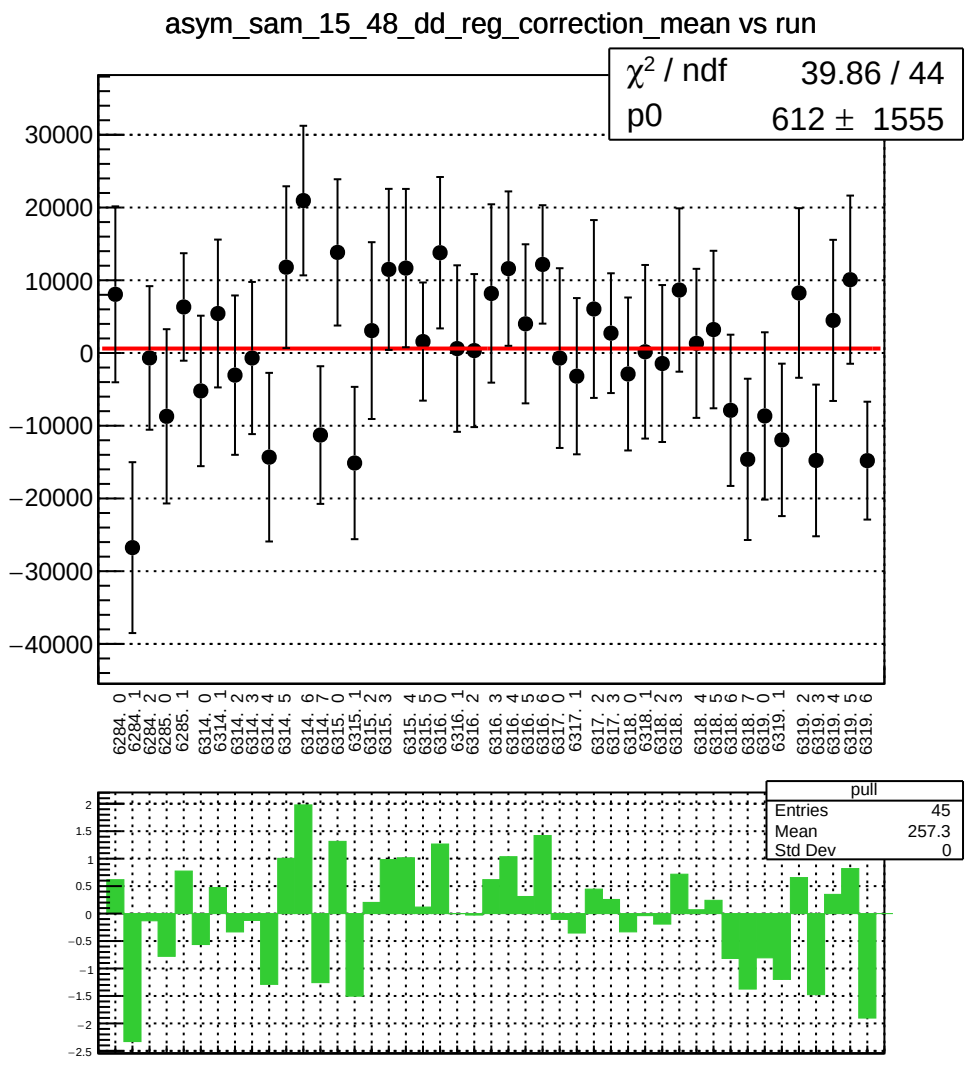

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.25 / 44
p0 9.981e−15 ± 7.108e−14
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 51.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.09028
Std Dev 0.9648
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

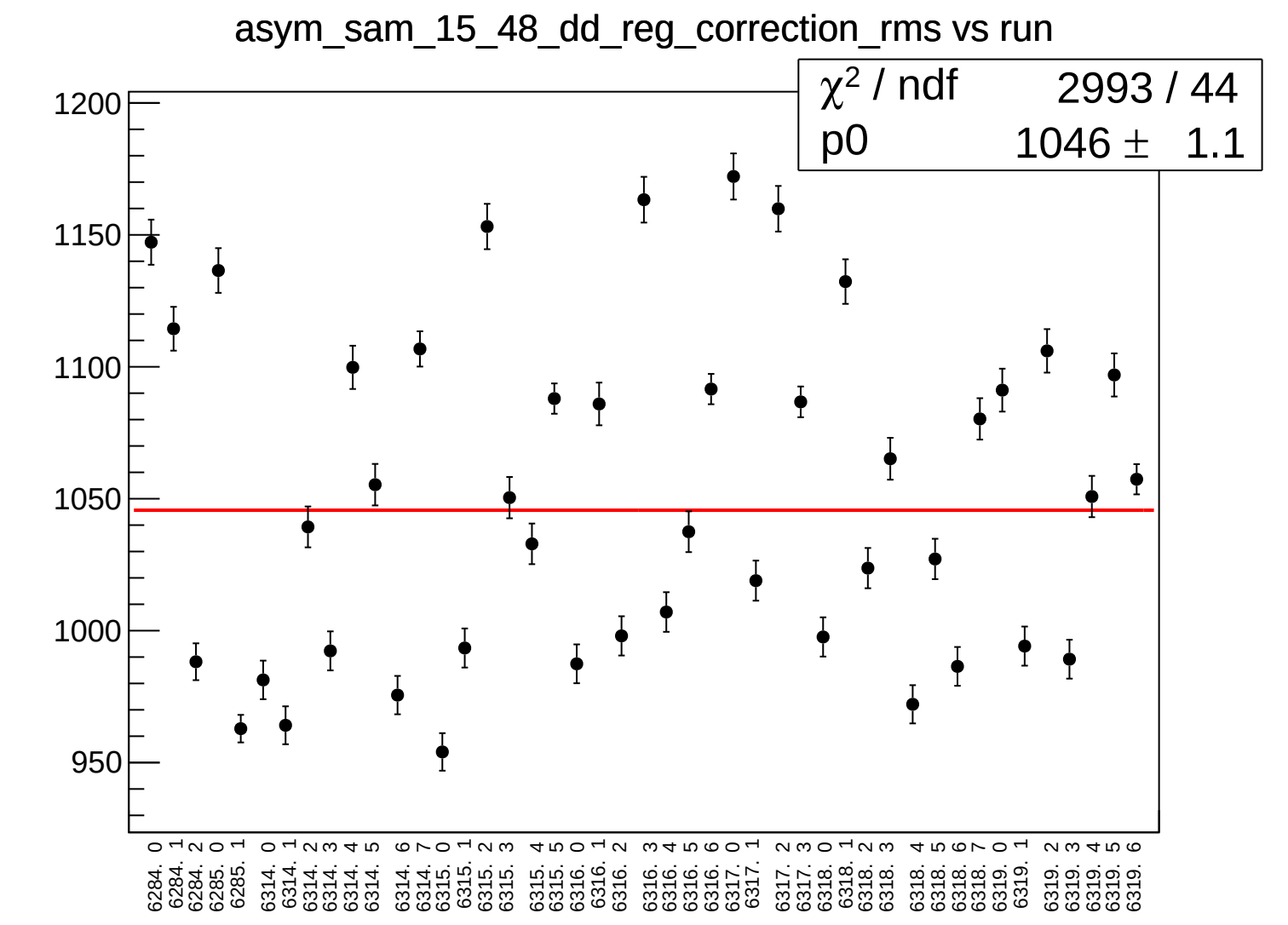

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.074e+05 / 44
p0 3.178e−11 ± 5.026e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

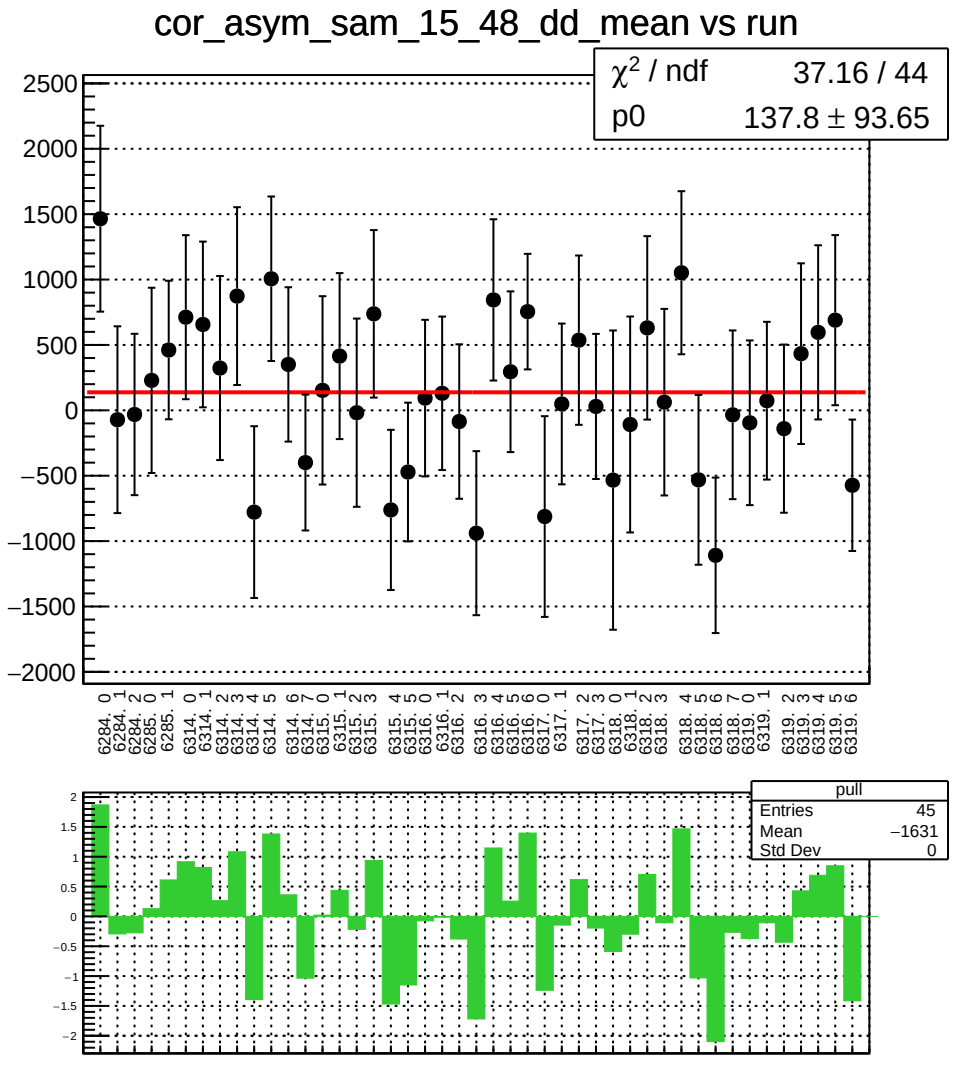

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.16 / 44
p0 137.8 ± 93.65
pull
Entries 45
Mean −1626
Std Dev 0

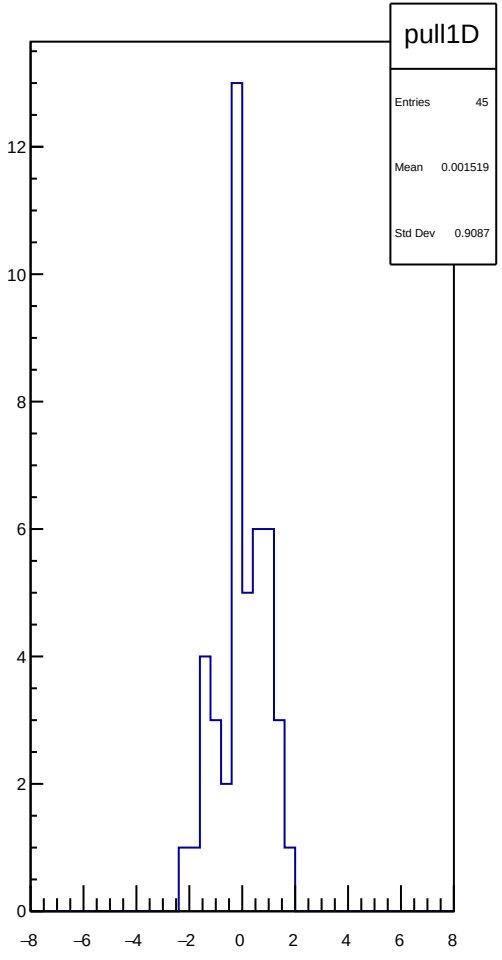

pull1D
Entries 45
Mean 0.001523
Std Dev 0.9087

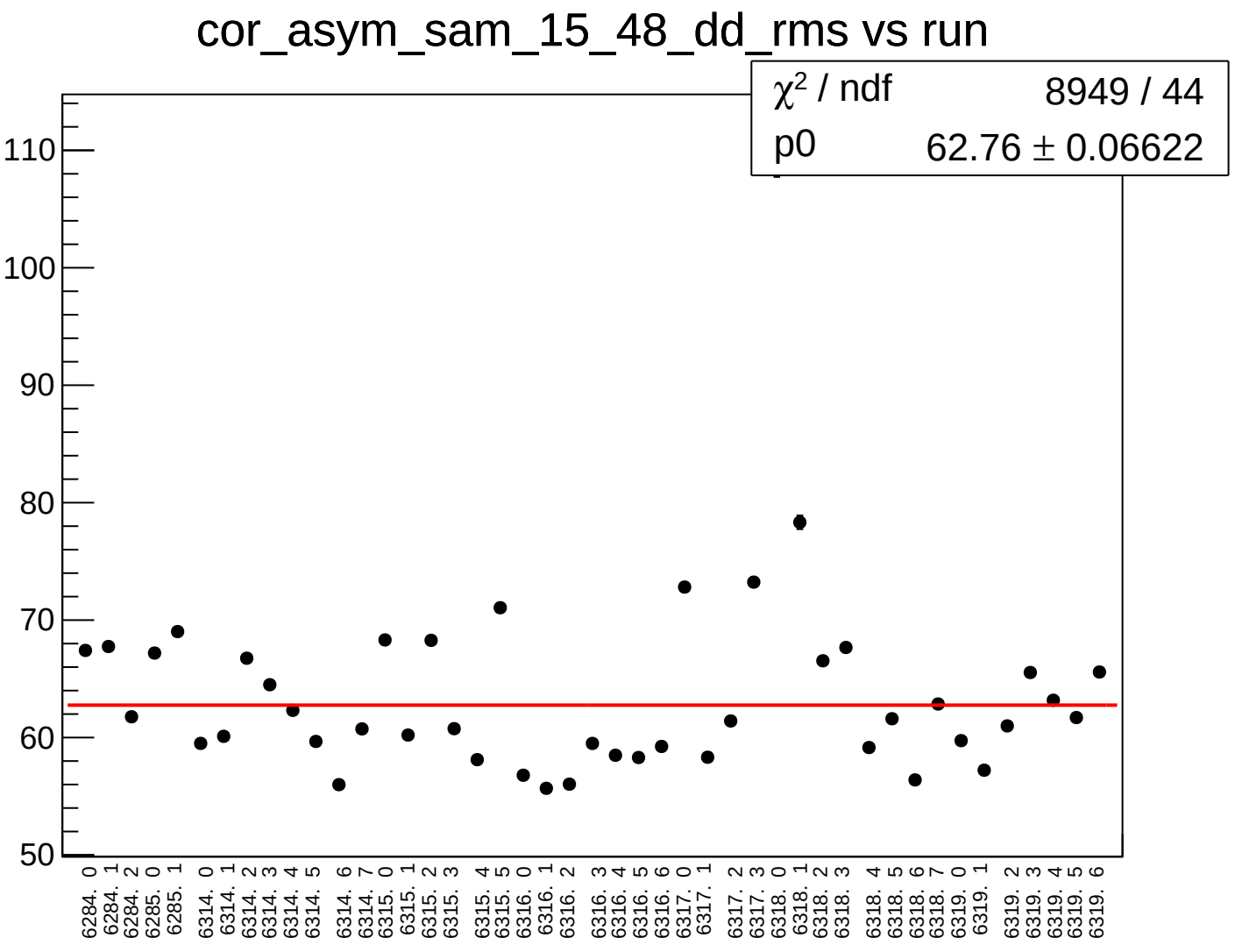

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 8949 / 44
p0 62.76 ± 0.06622
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 39.86 / 44
p0 612 ± 1555
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 257.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.005438
Std Dev 0.9411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2993 / 44
p0 1046 ± 1.1
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.16 / 44
p0 137.8 ± 93.65
pull
Entries 45
Mean −1631
Std Dev 0


pull1D
Entries 45
Mean 0.001519
Std Dev 0.9087


cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 8949 / 44
p0 62.76 ± 0.06622
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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6319. 3
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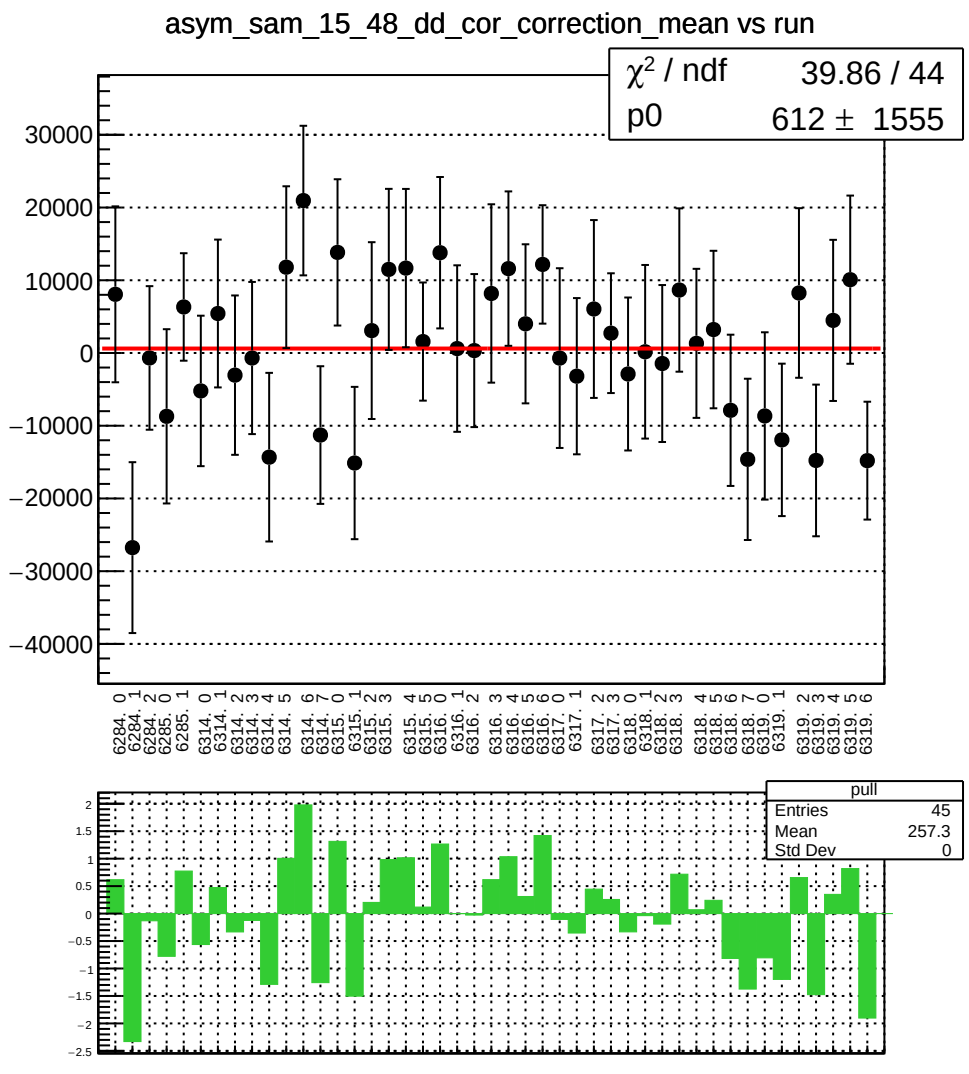
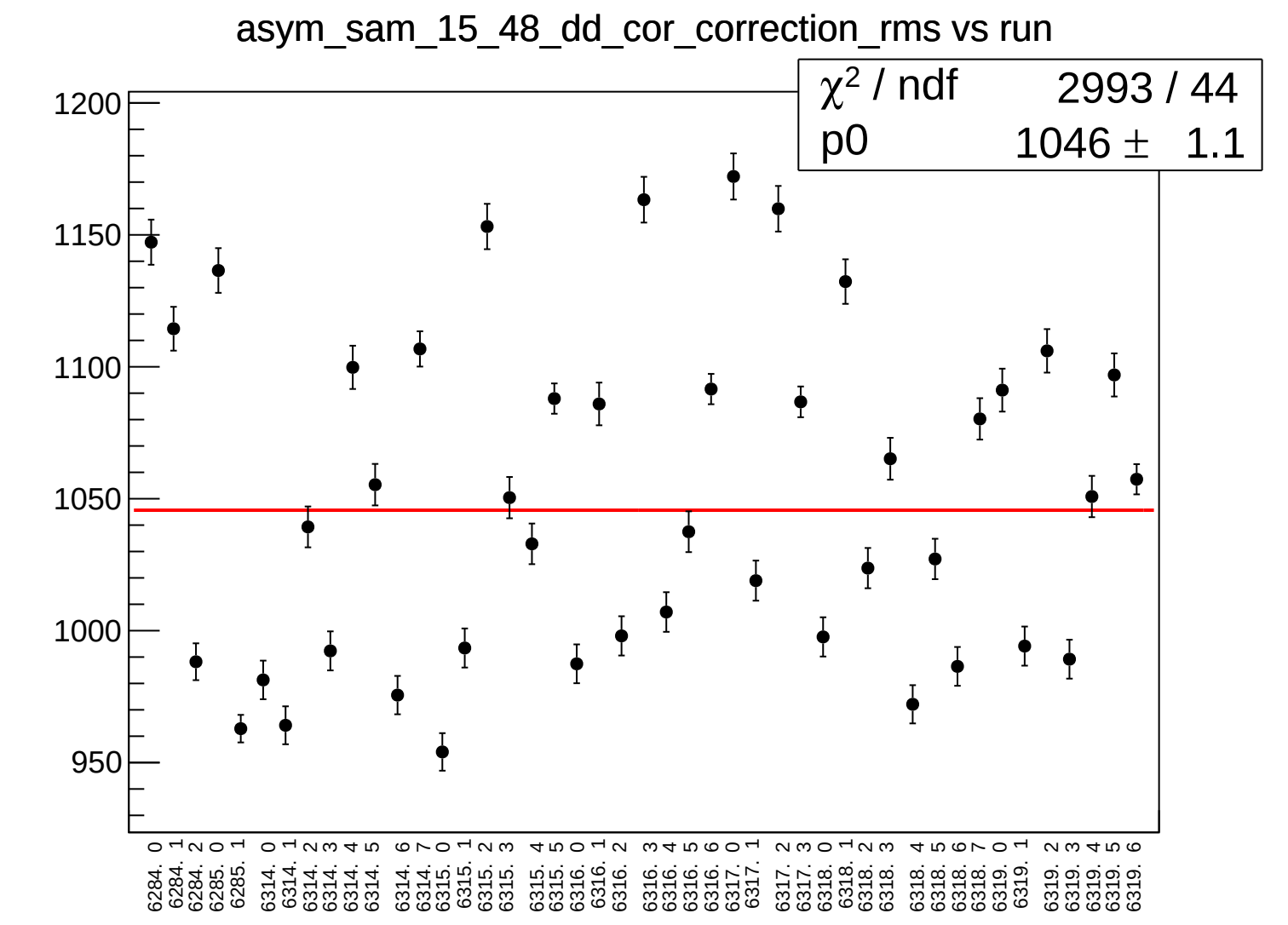
6319. 5
6319. 6


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 39.86 / 44
p0 612 ± 1555
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 257.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.005438
Std Dev 0.9411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2993 / 44
p0 1046 ± 1.1
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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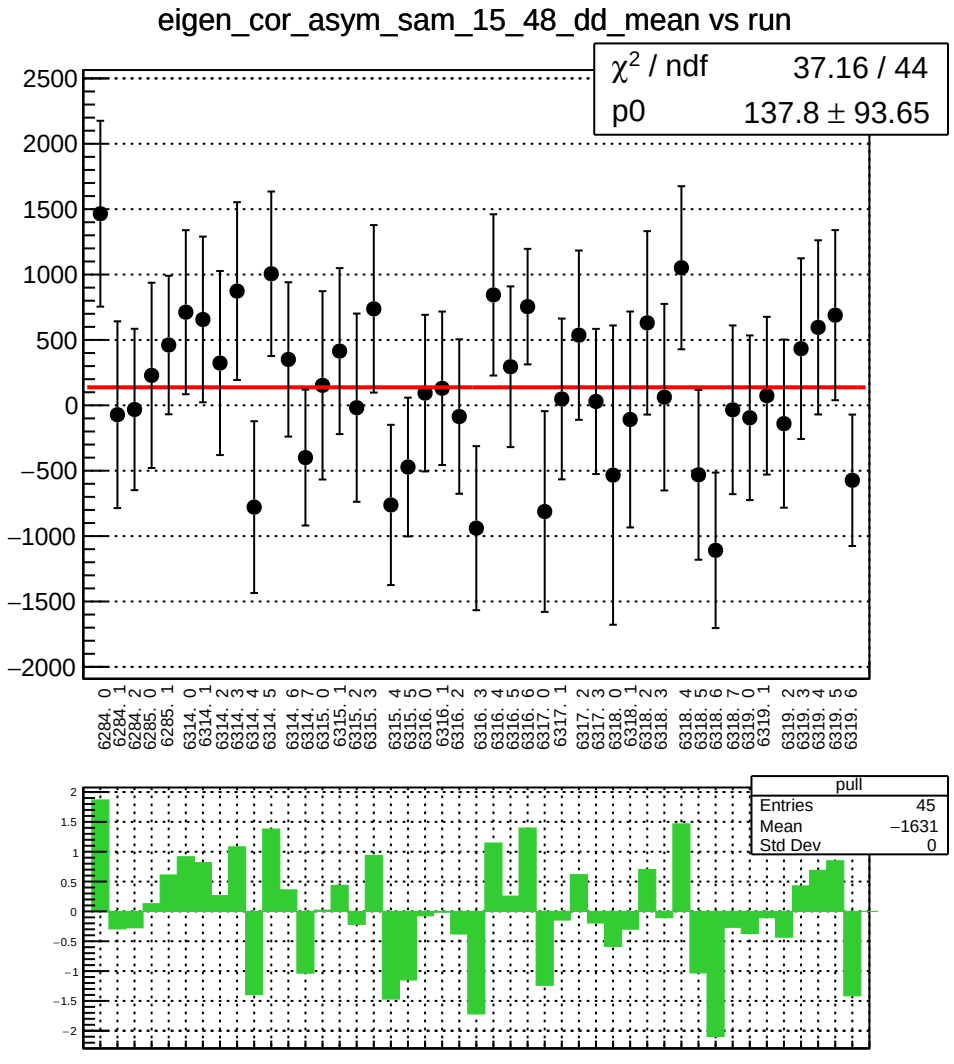
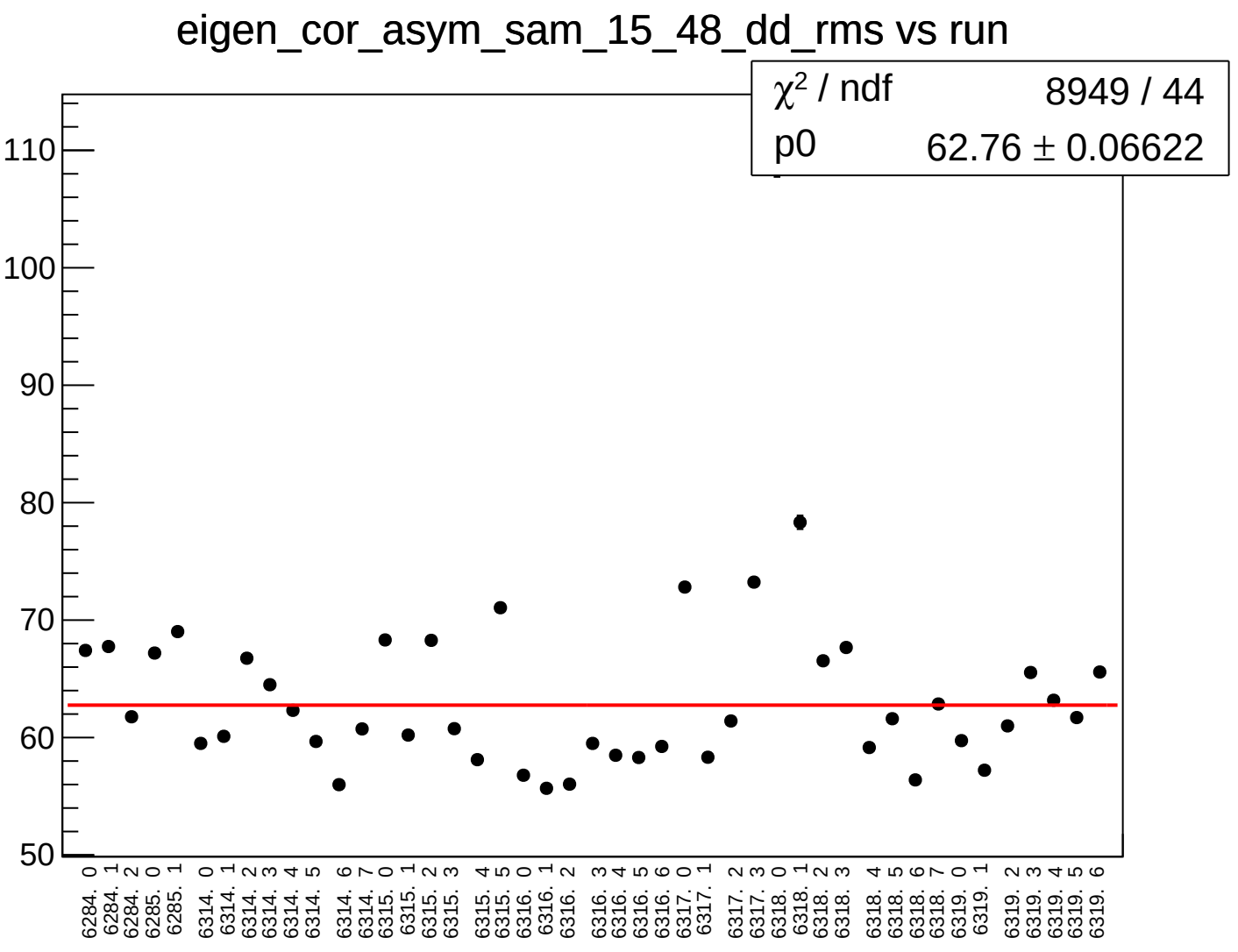
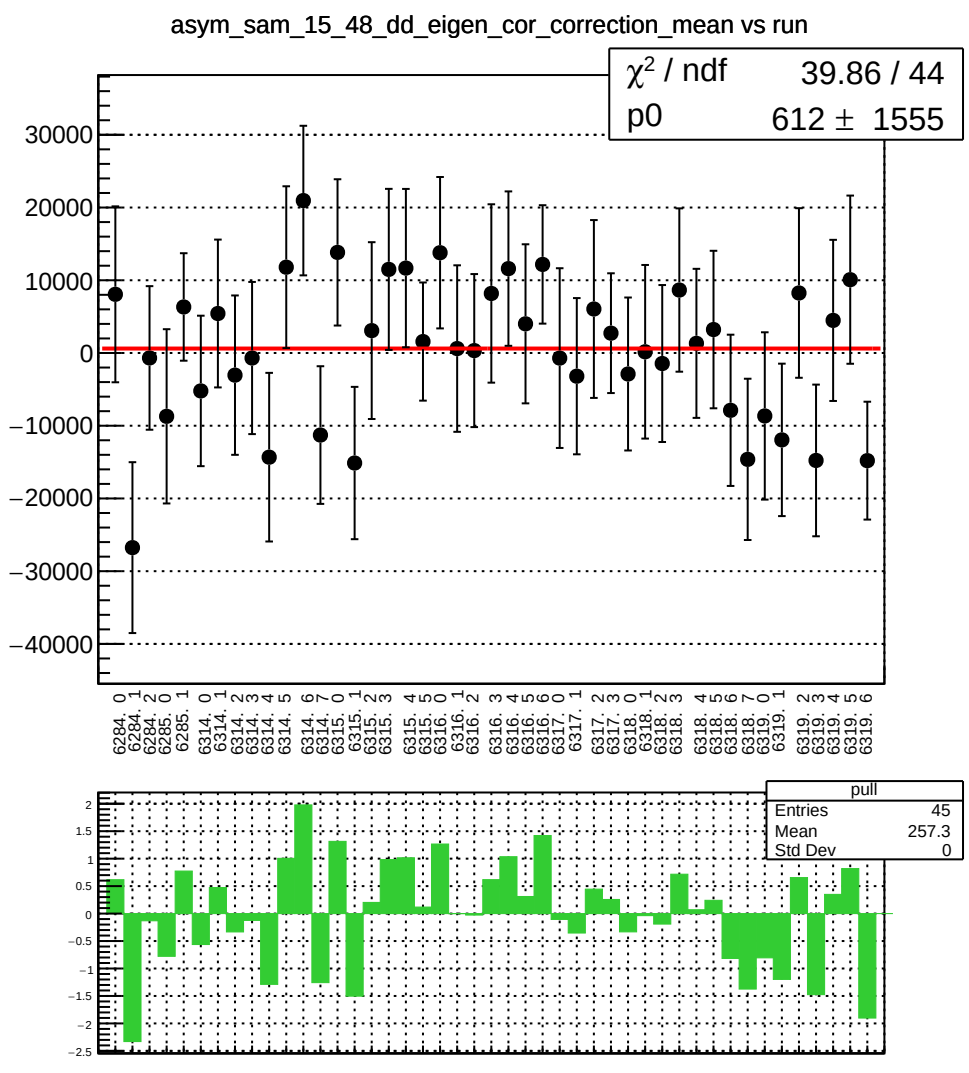
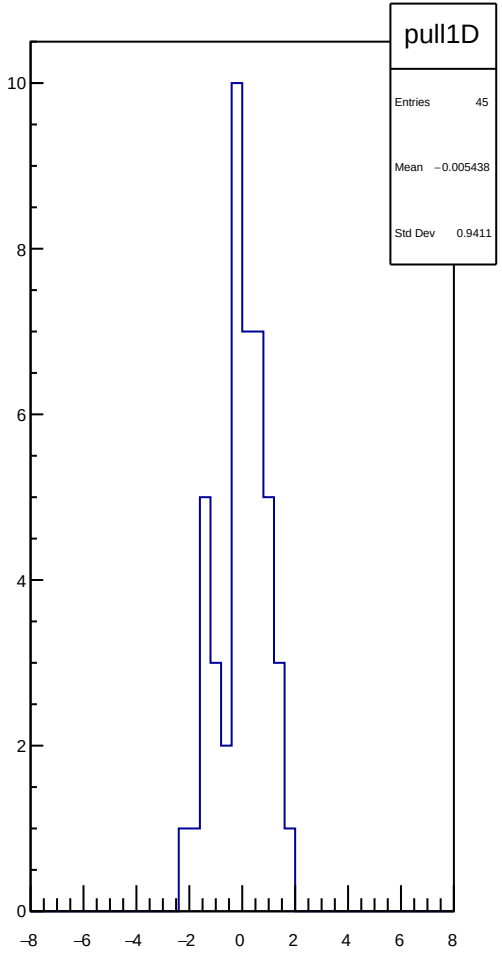
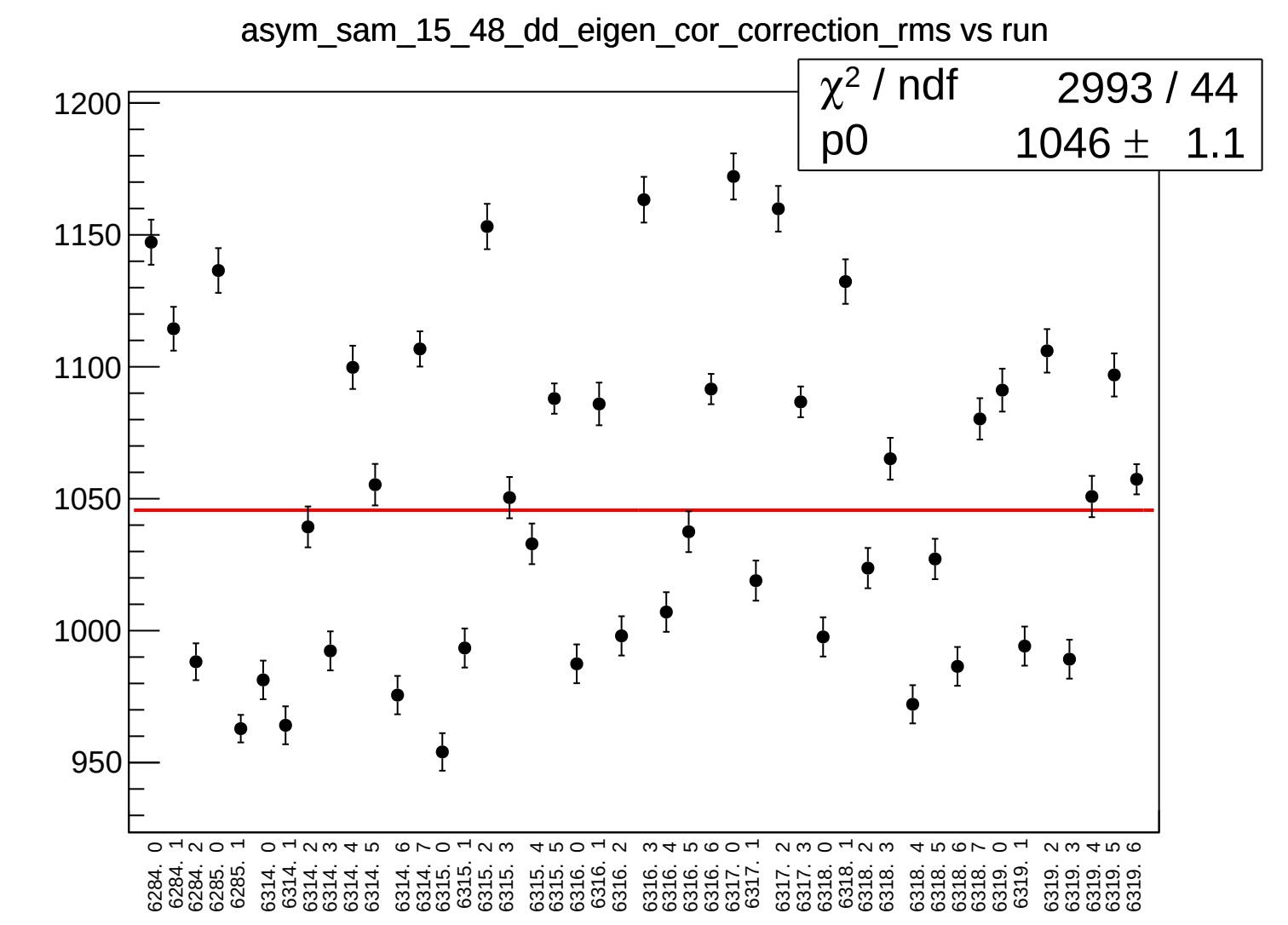
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

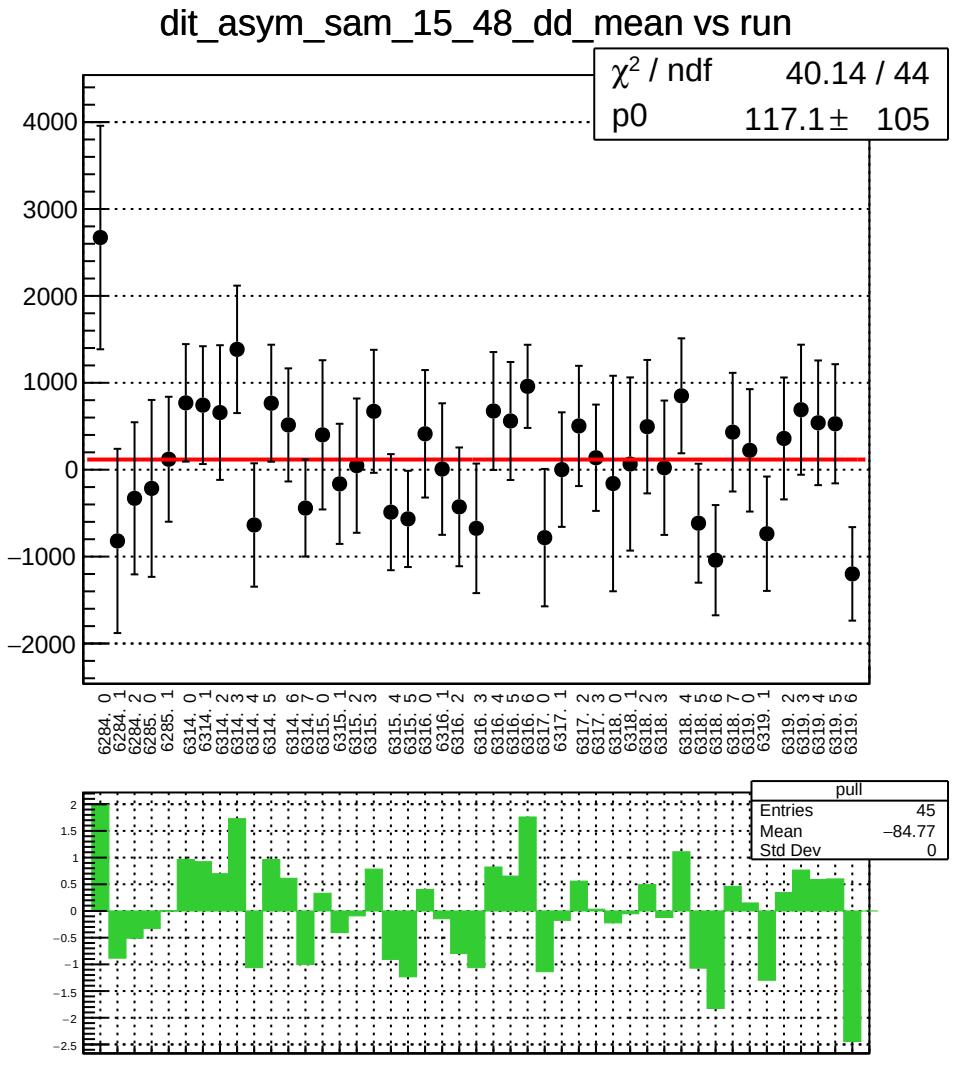

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 37.16 / 44
p0 137.8 ± 93.65
pull
Entries 45
Mean −1631
Std Dev 0
pull1D
Entries 45
Mean 0.001519
Std Dev 0.9087

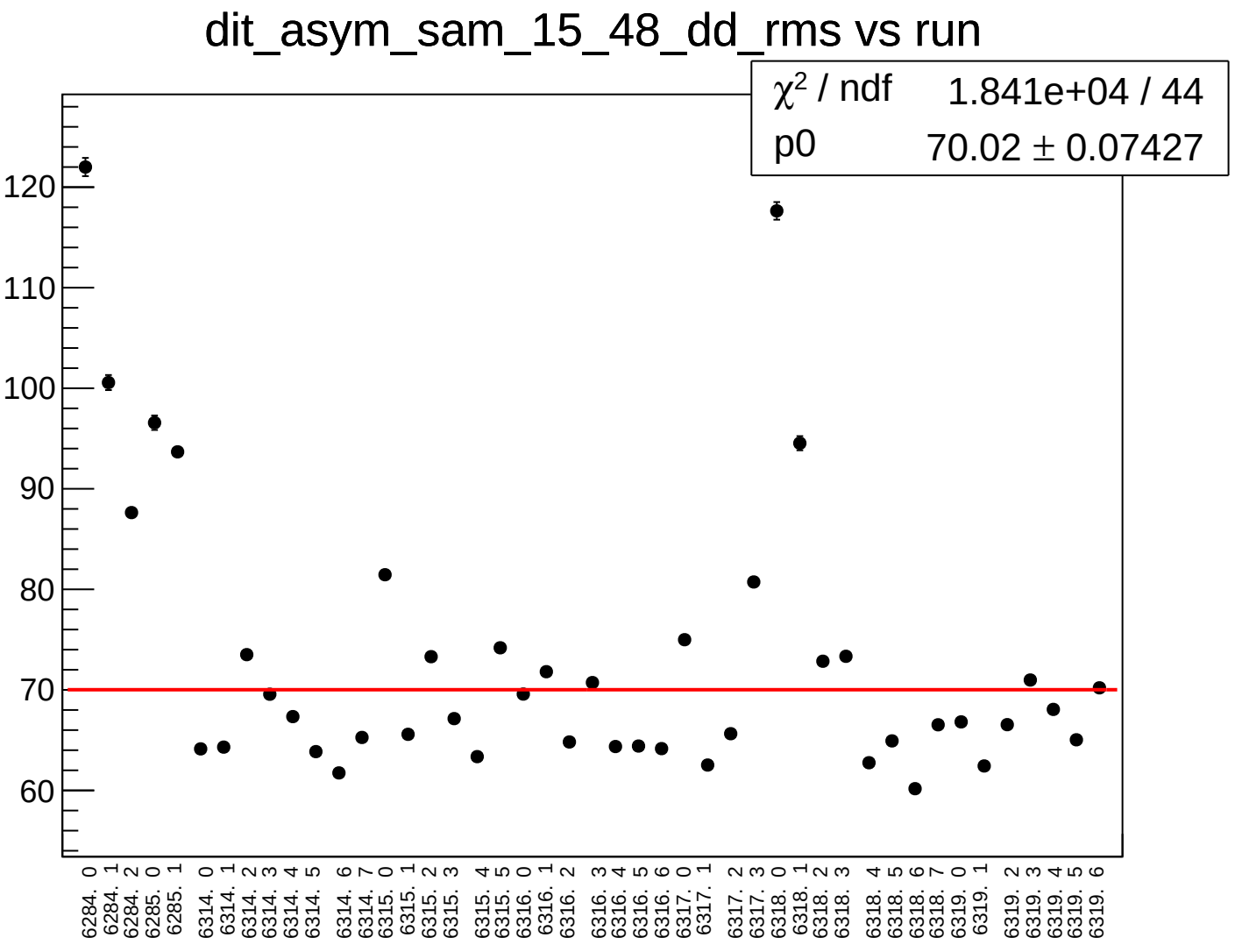

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 8949 / 44
p0 62.76 ± 0.06622
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

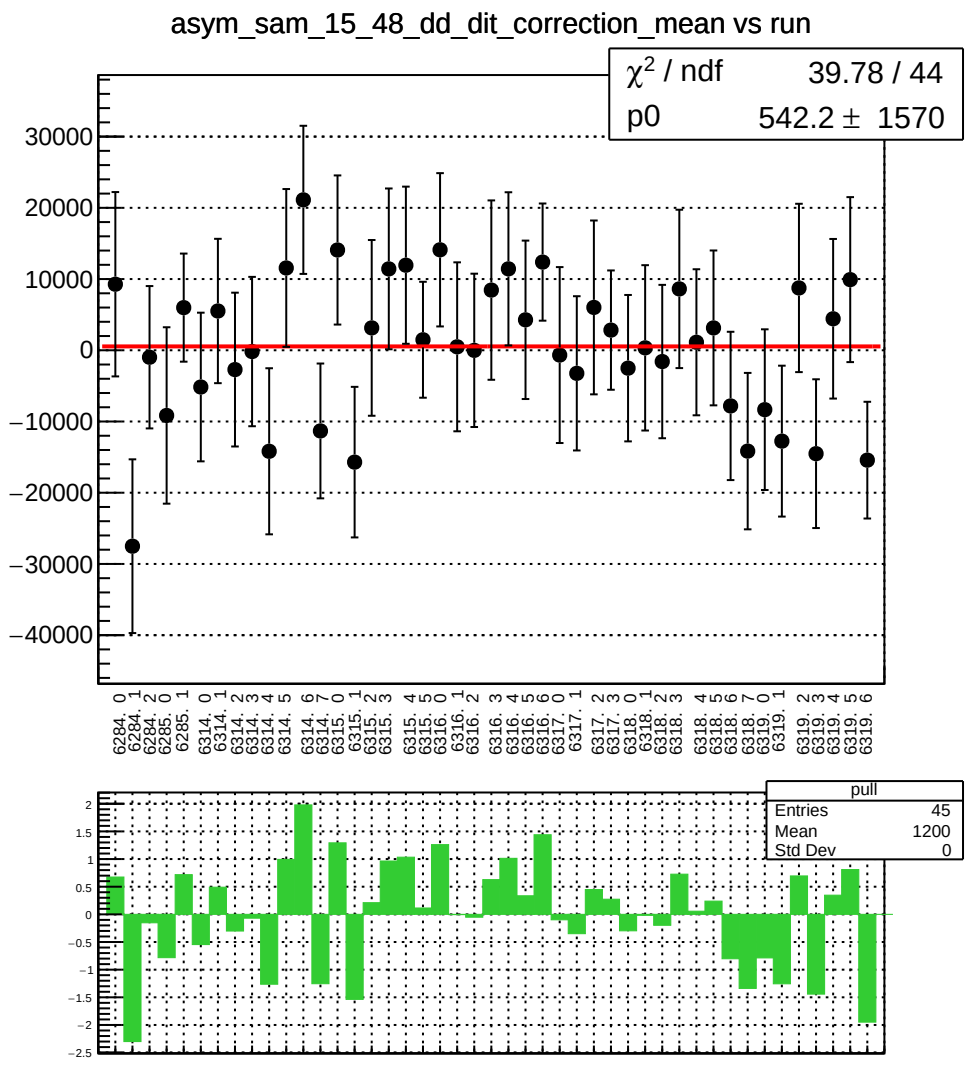

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.86 / 44
p0 612 ± 1555
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 257.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

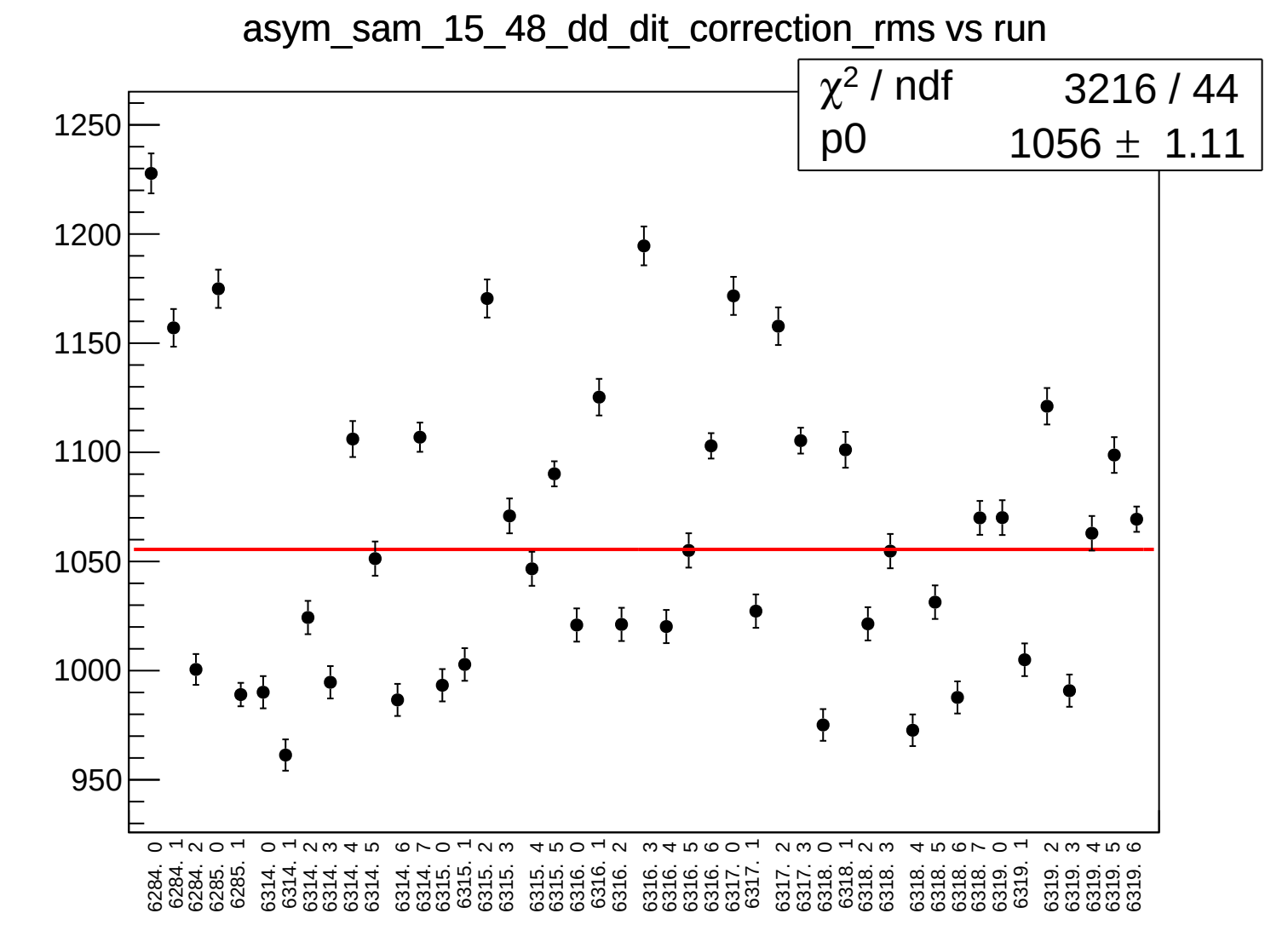

pull1D
Entries 45
Mean −0.005438
Std Dev 0.9411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

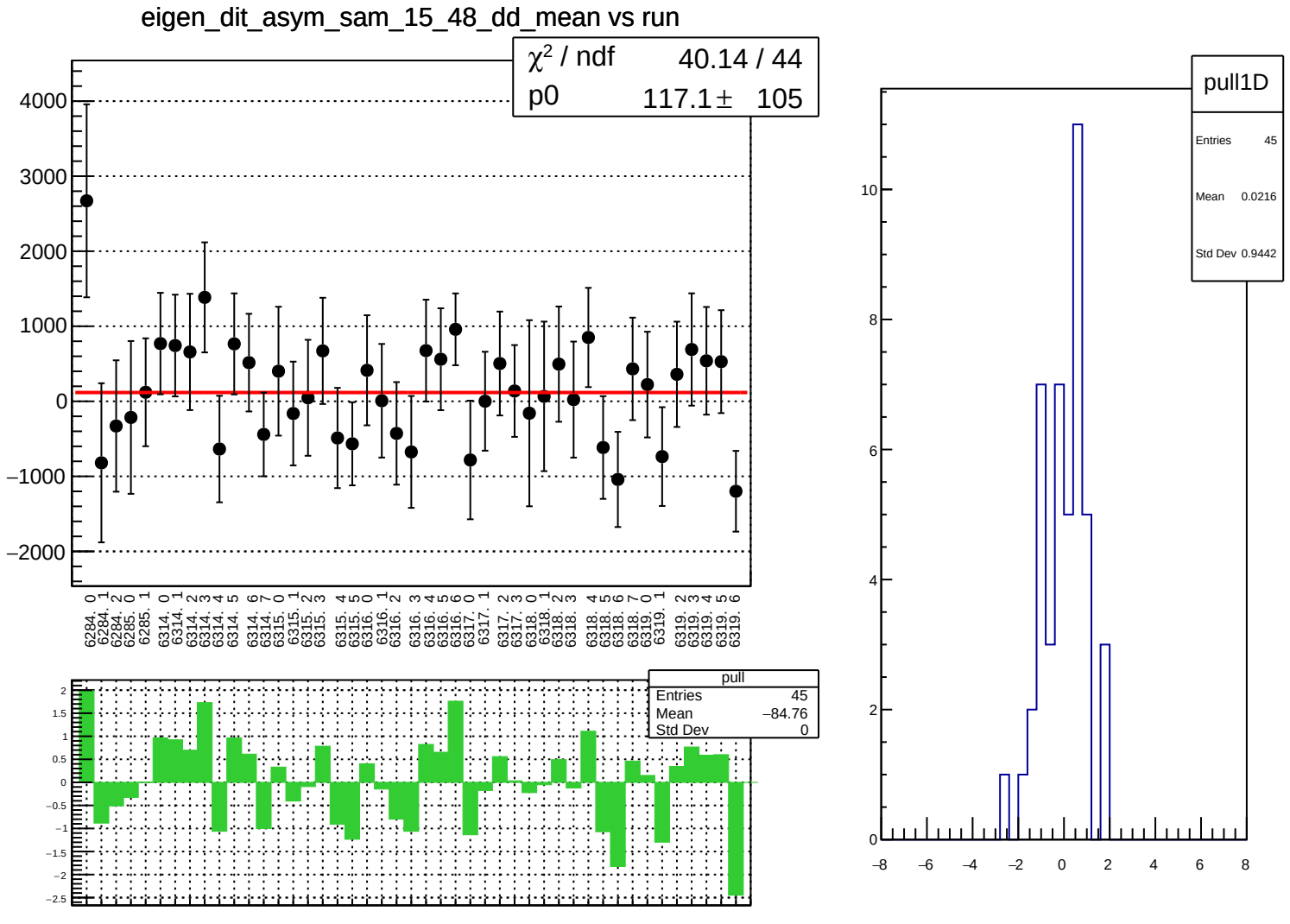

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2993 / 44
p0 1046 ± 1.1
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 40.14 / 44
p0 117.1 ± 105
4000
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −84.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0216
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.841e+04 / 44
p0 70.02 ± 0.07427
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 39.78 / 44
p0 542.2 ± 1570
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1200
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.001107
Std Dev 0.9402
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3216 / 44
p0 1056 ± 1.11
1250
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 40.14 / 44
p0 117.1 ± 105
4000
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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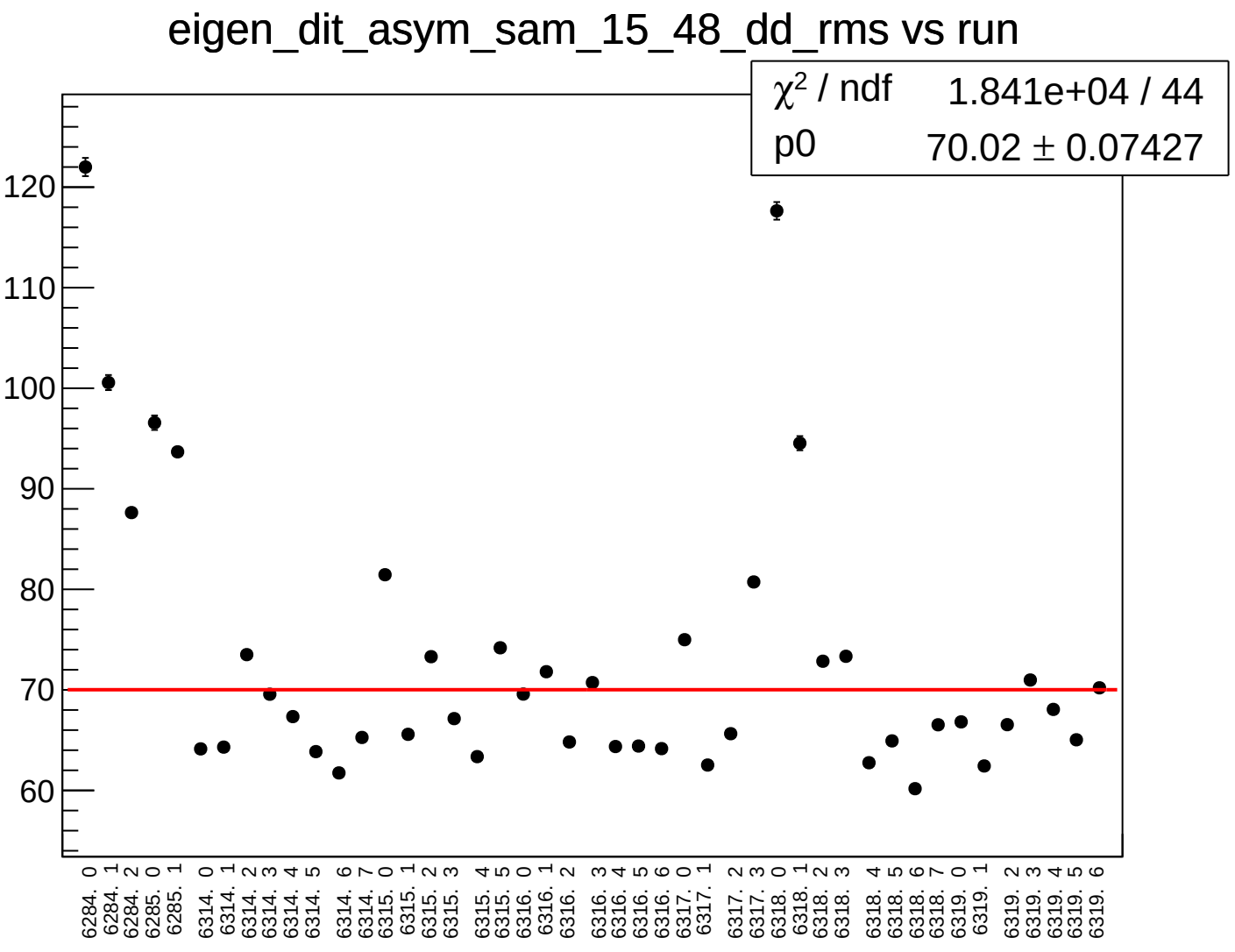
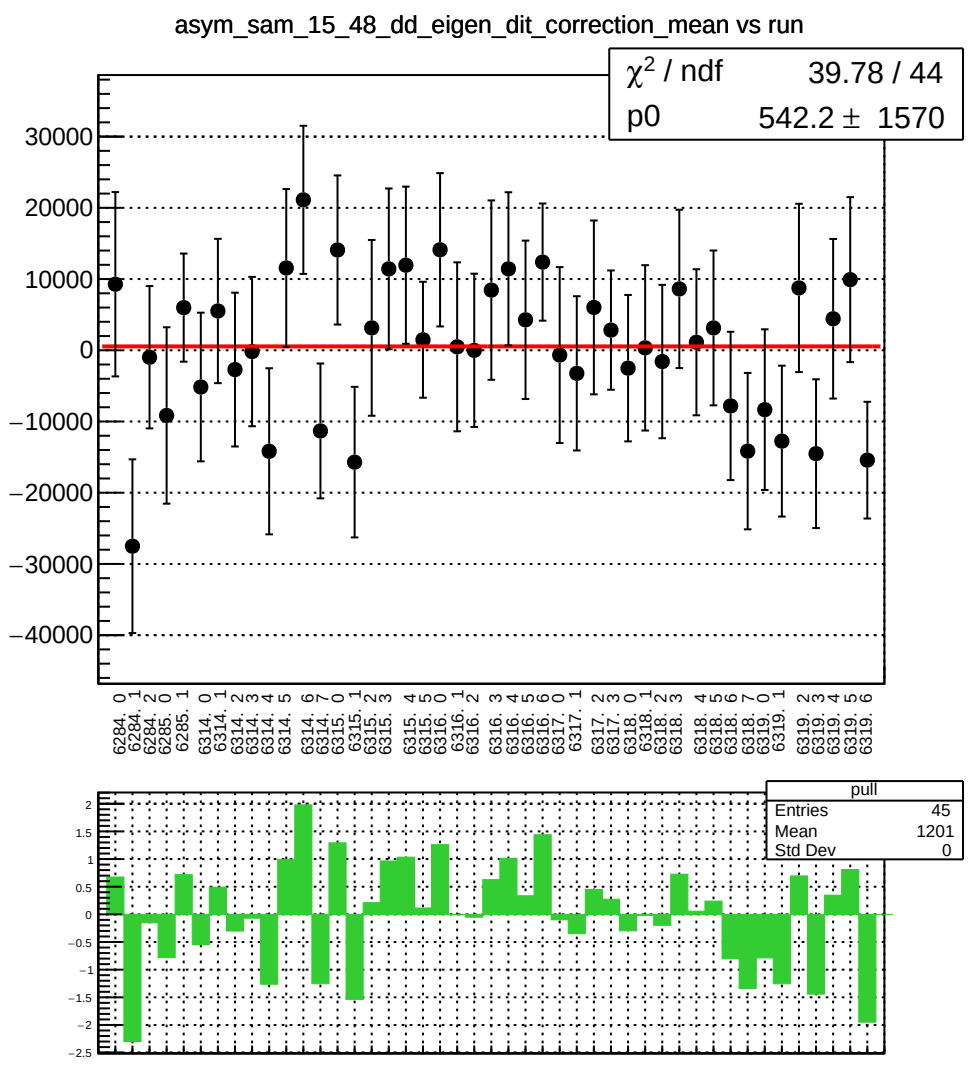
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −84.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0216
Std Dev 0.9442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.841e+04 / 44
p0 70.02 ± 0.07427
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.78 / 44
p0 542.2 ± 1570
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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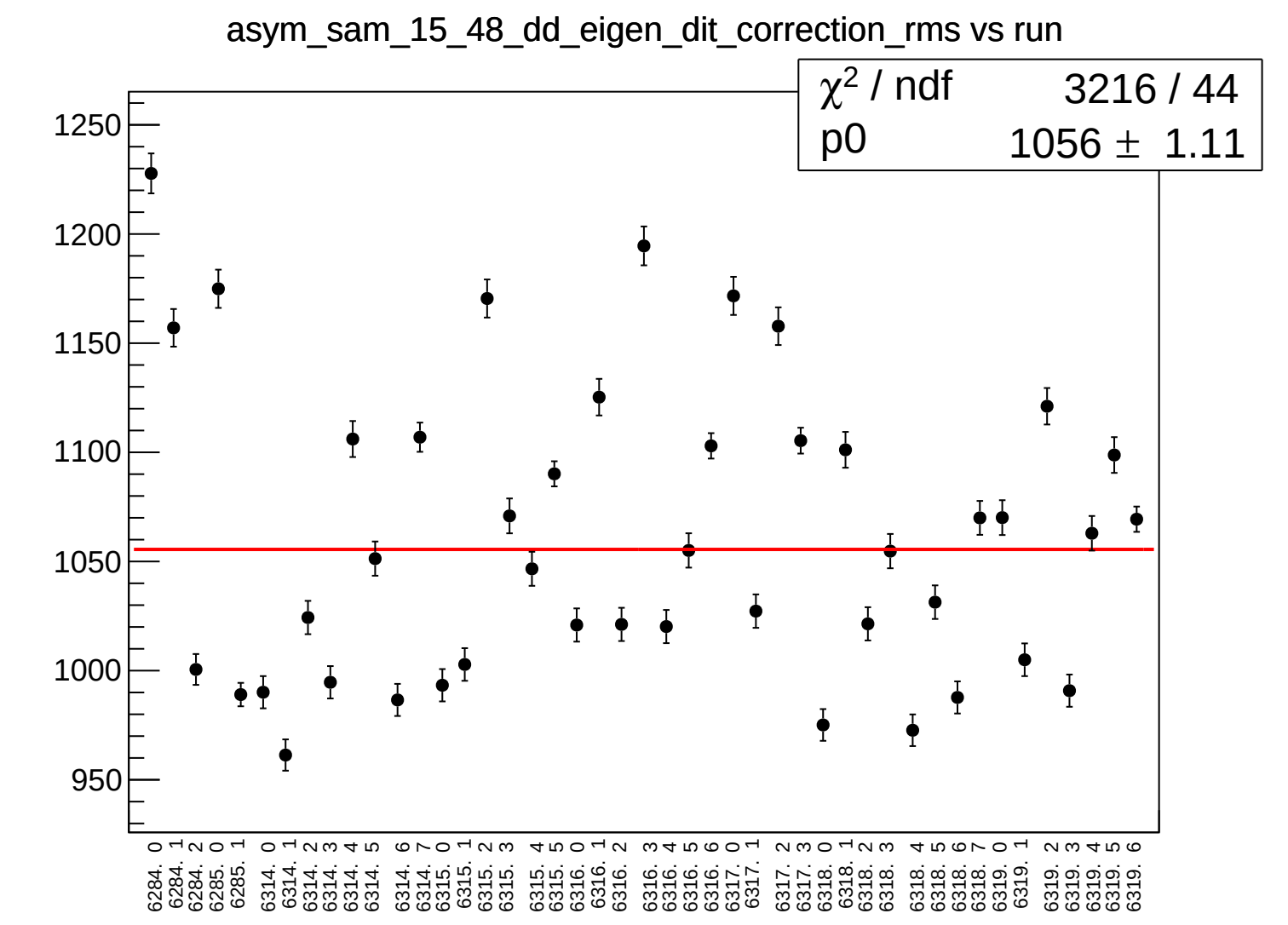
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1201
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.001107
Std Dev 0.9402
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3216 / 44
p0 1056 ± 1.11
1250
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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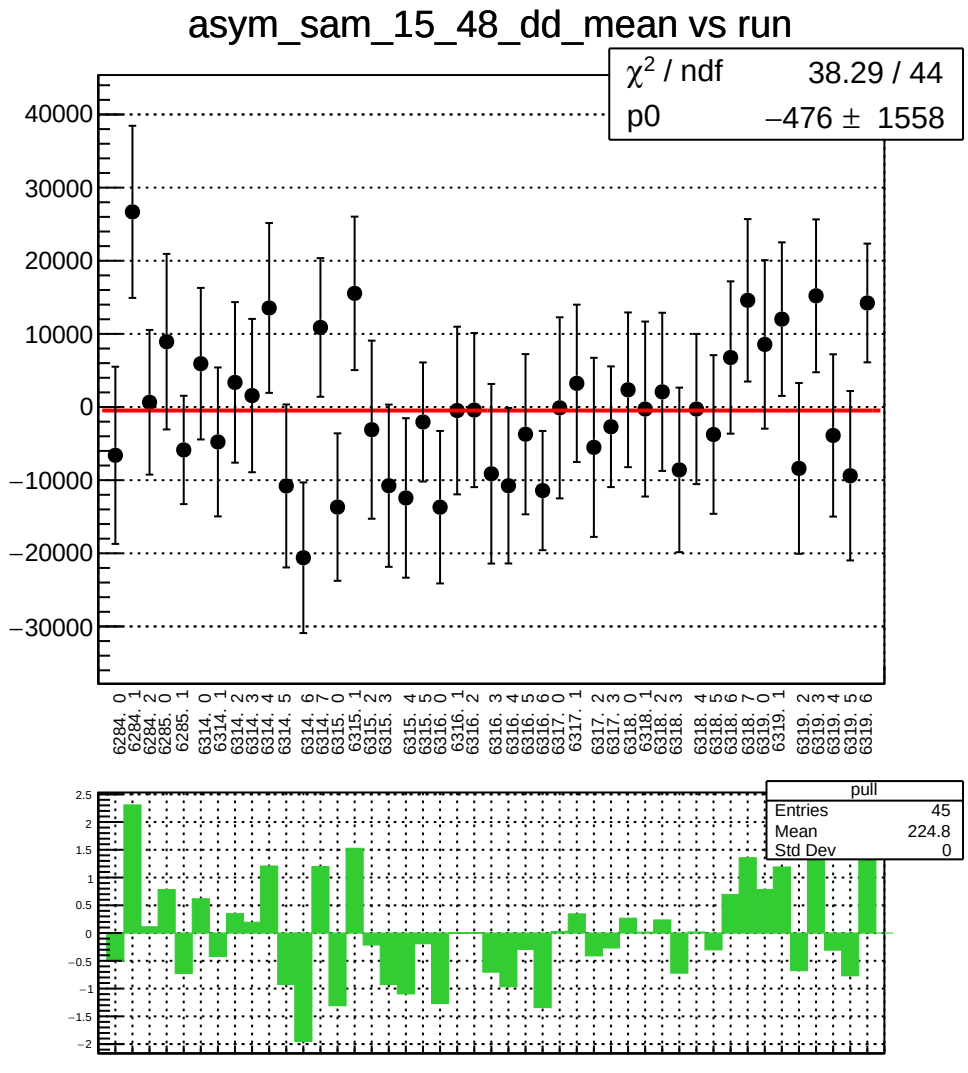
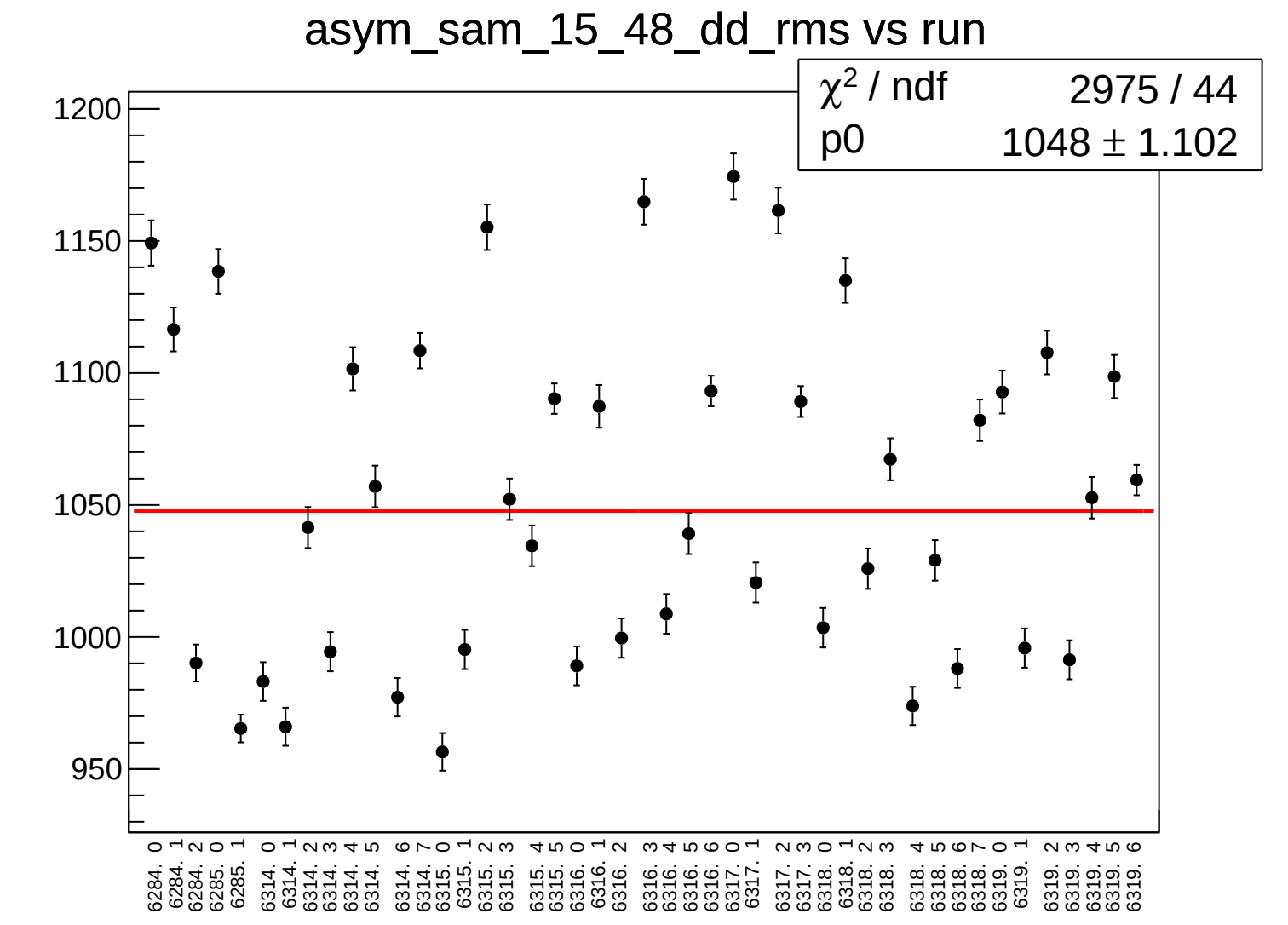
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_48_dd_mean vs run
χ² / ndf 38.29 / 44
p0 −476 ± 1558
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 224.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005506
Std Dev 0.9224
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_rms vs run
χ² / ndf 2975 / 44
p0 1048 ± 1.102
1200
1150
1100
1050
1000
950
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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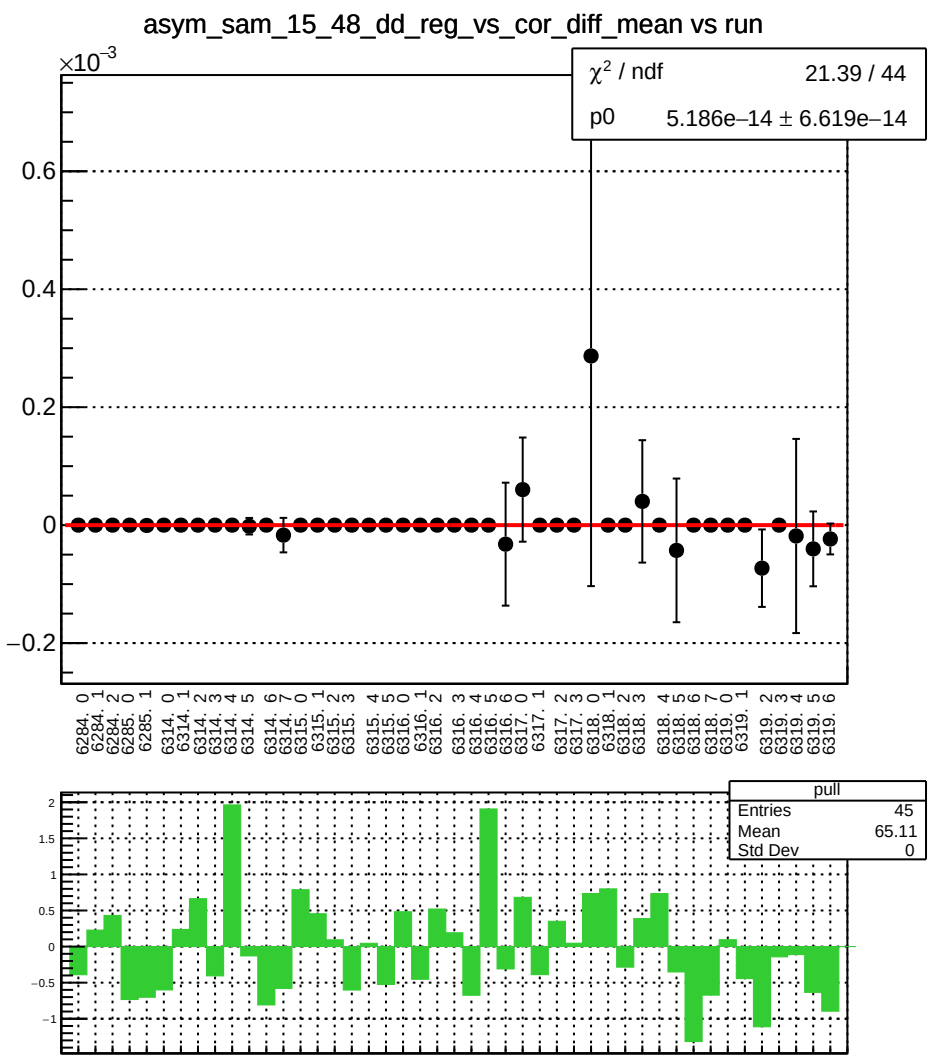
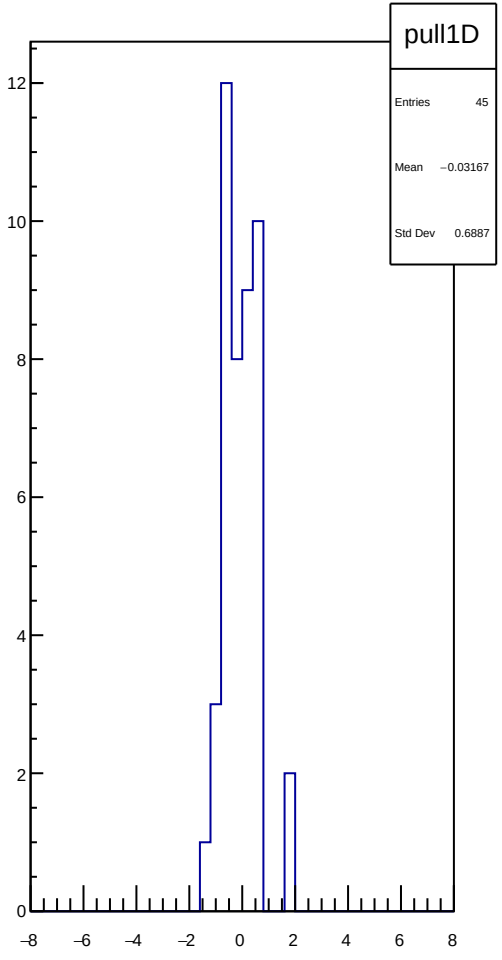
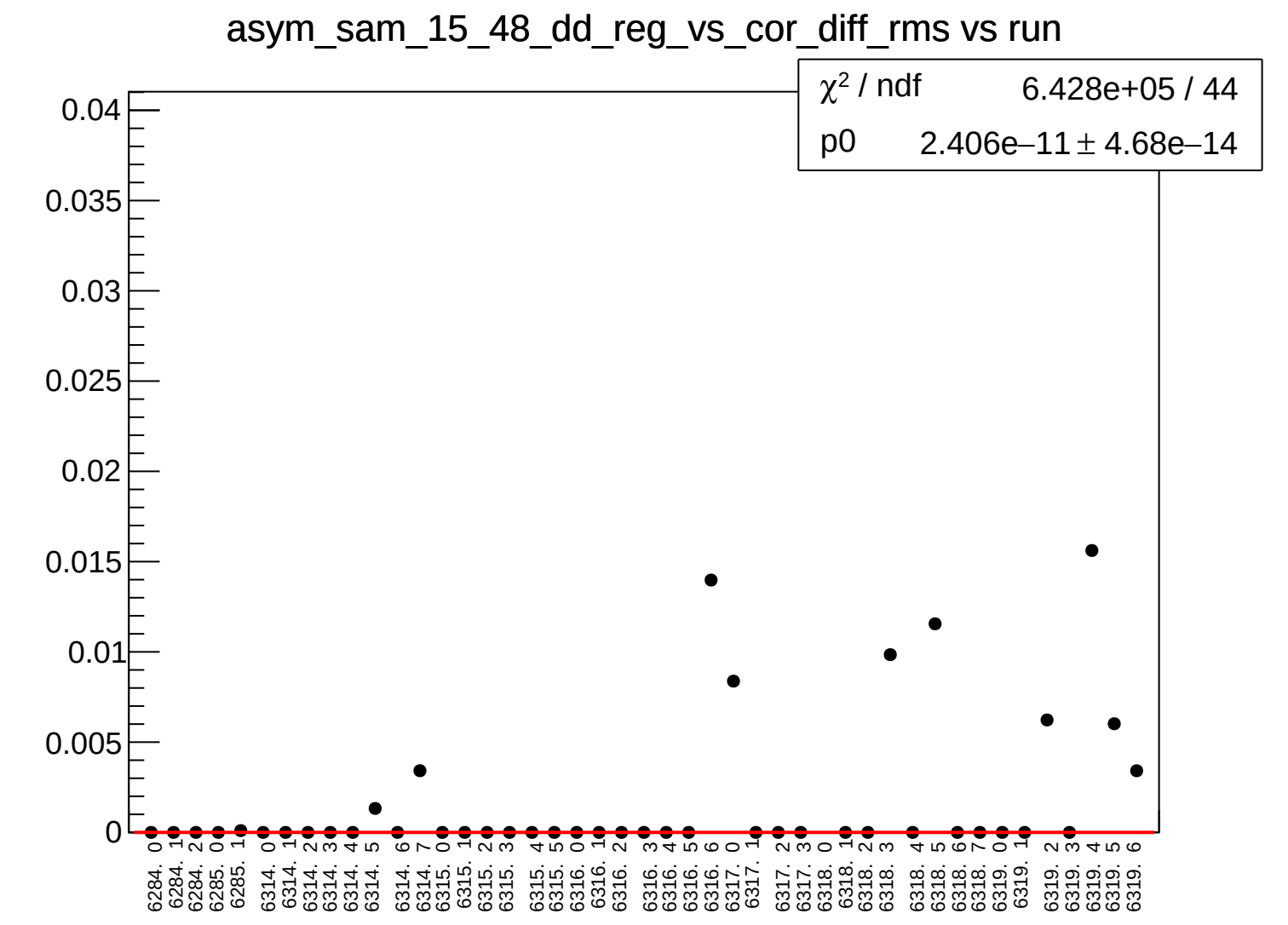
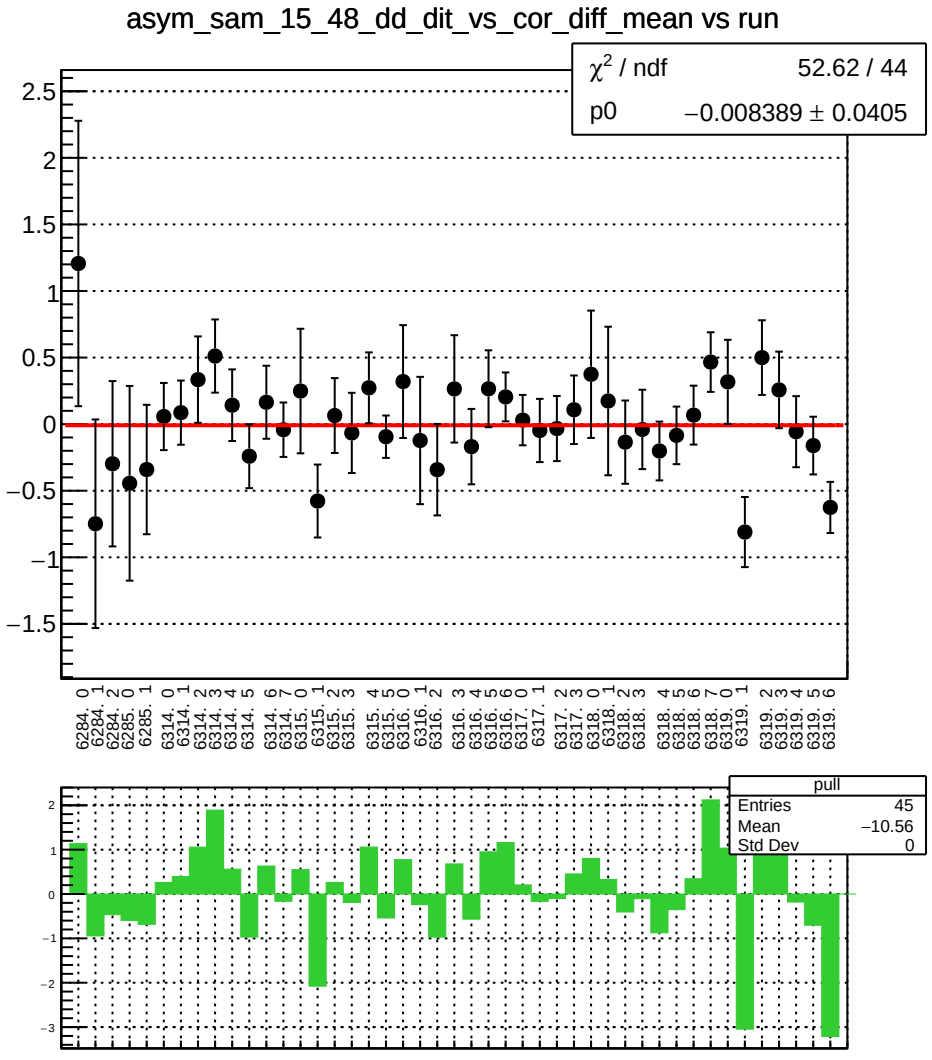
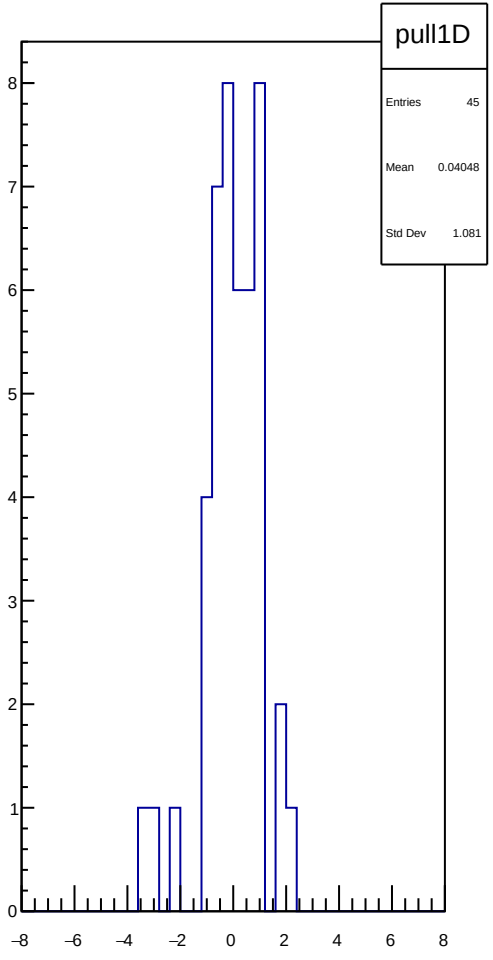
6319. 4
6319. 5
6319. 6

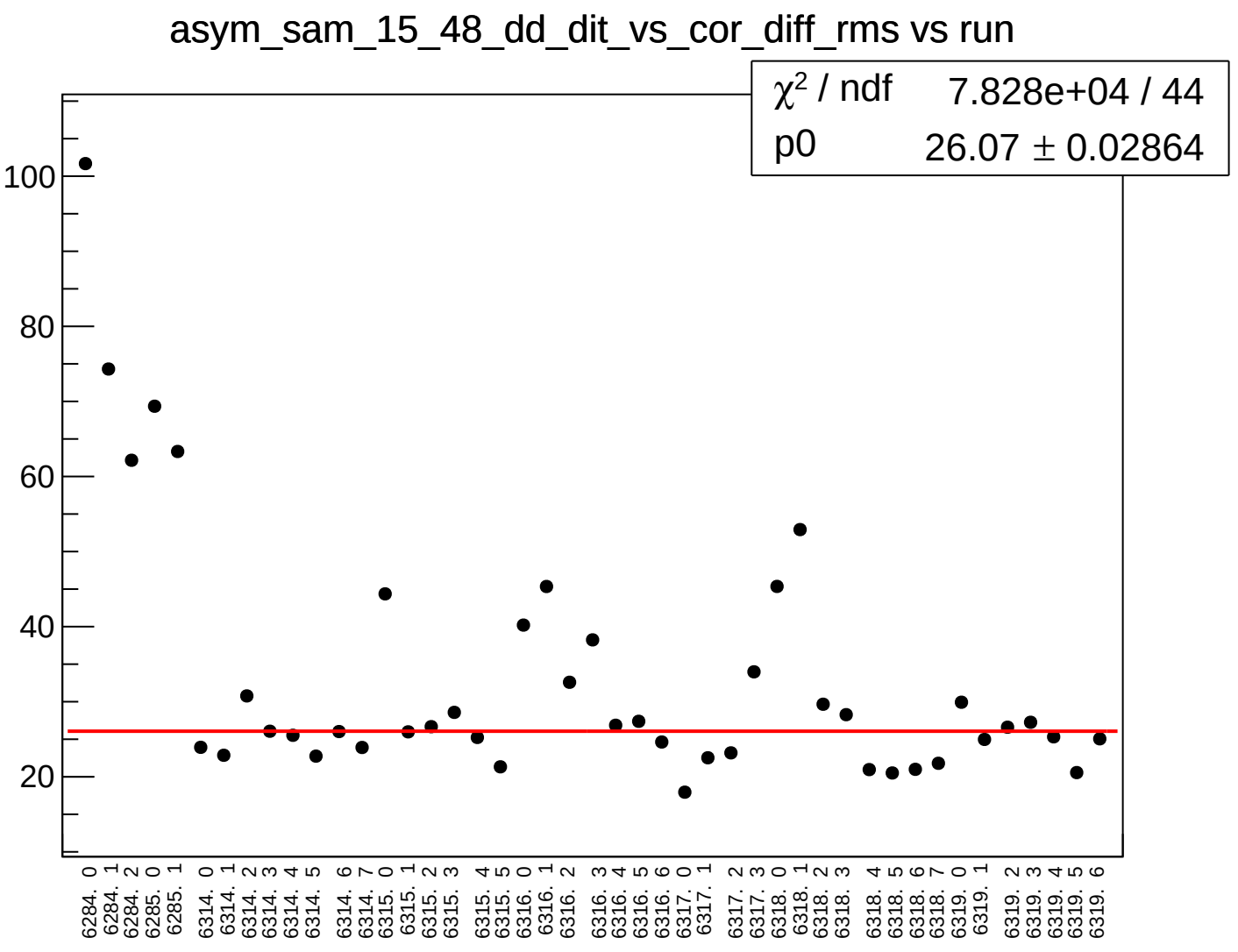

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 21.39 / 44
p0 5.186e−14 ± 6.619e−14
0.6
0.4
0.2
0
−0.2
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 65.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

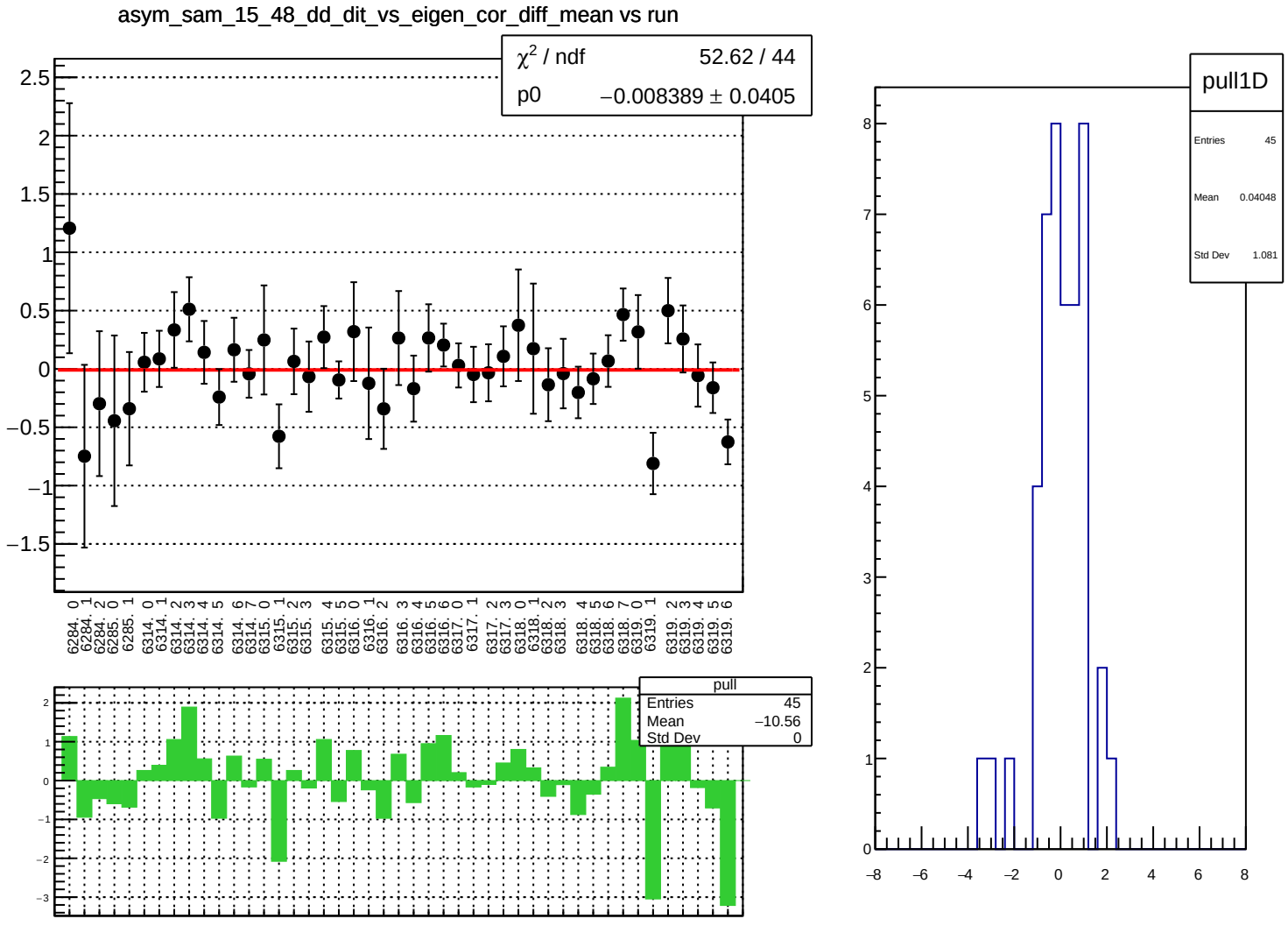

pull1D
Entries 45
Mean −0.03167
Std Dev 0.6887
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

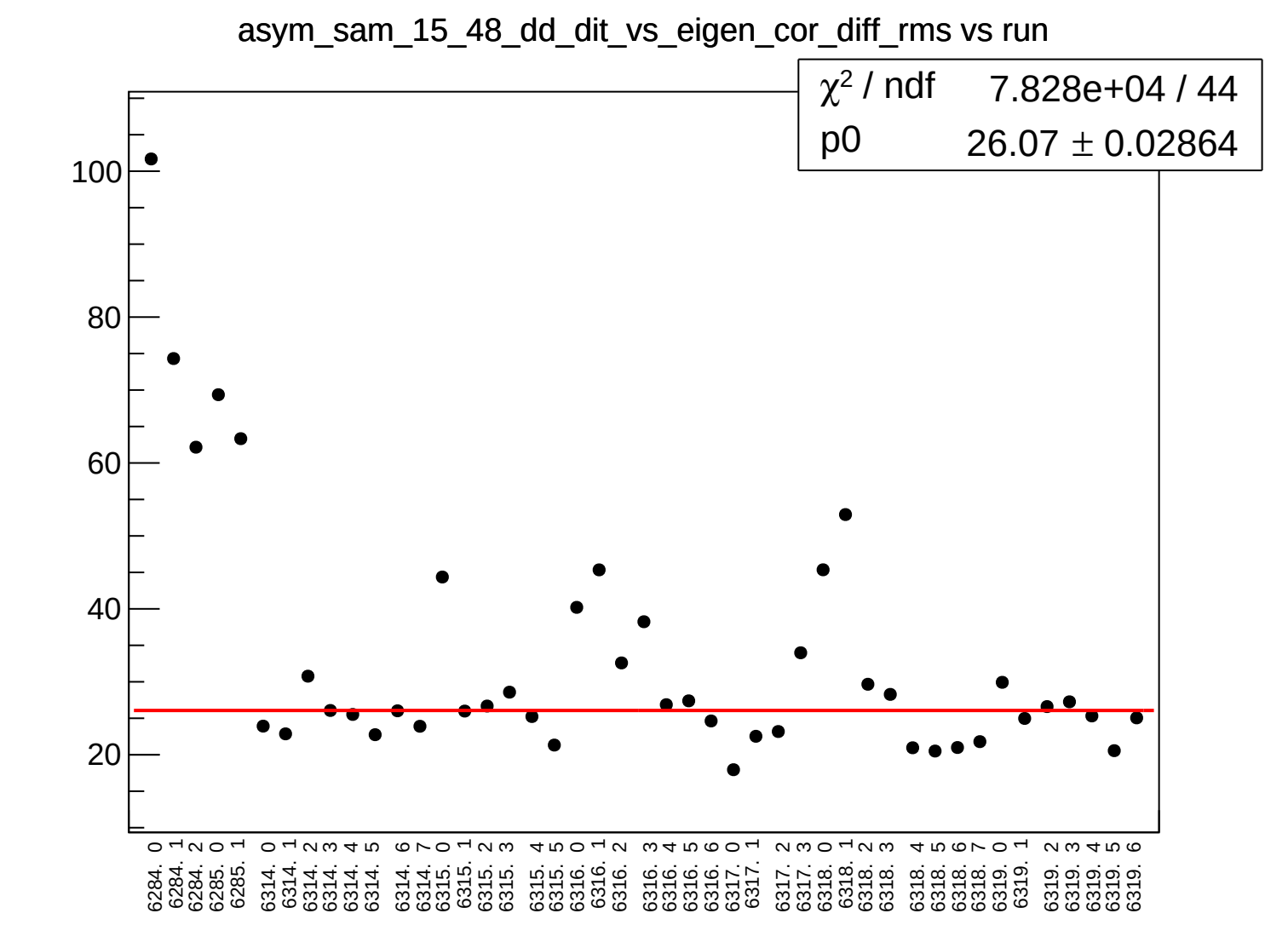

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.428e+05 / 44
p0 2.406e−11 ± 4.68e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

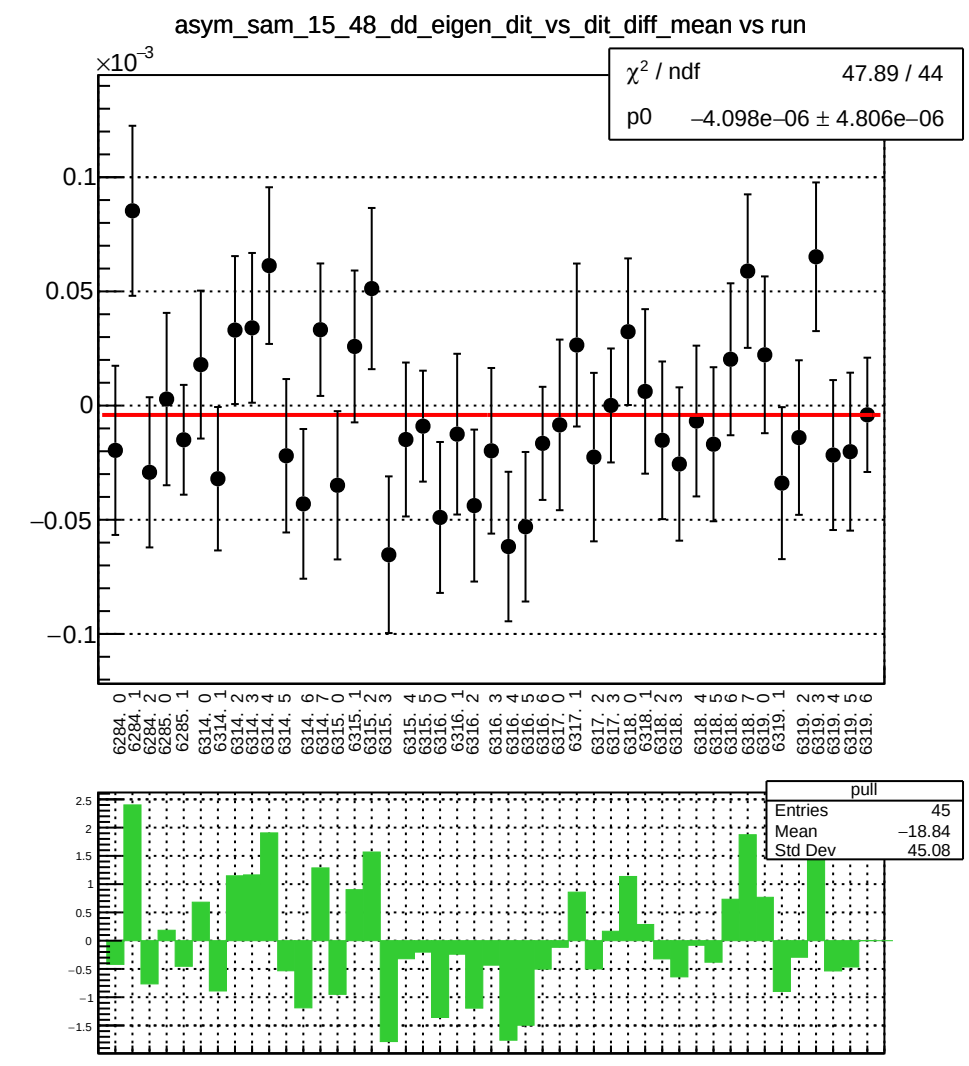

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.62 / 44
p0 −0.008389 ± 0.0405
pull
Entries 45
Mean −10.56
Std Dev 0

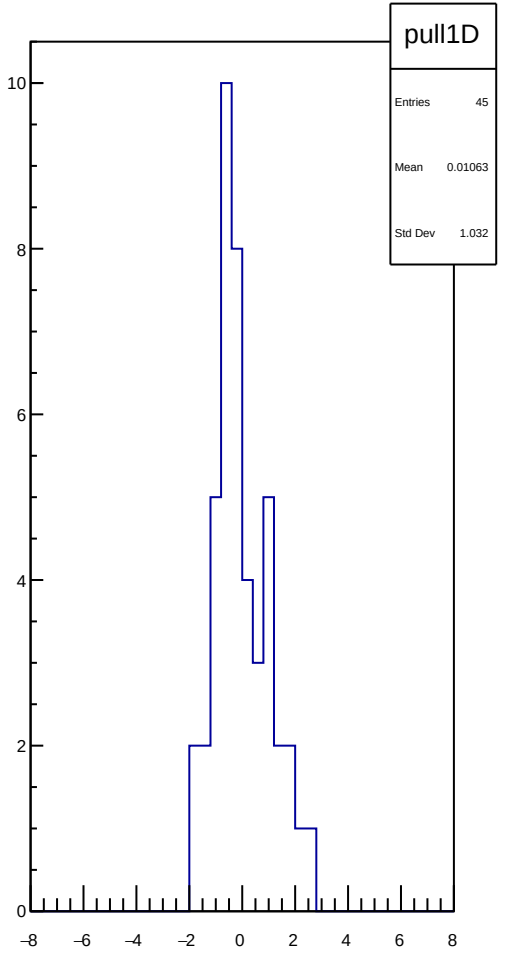

pull1D
Entries 45
Mean 0.04048
Std Dev 1.081

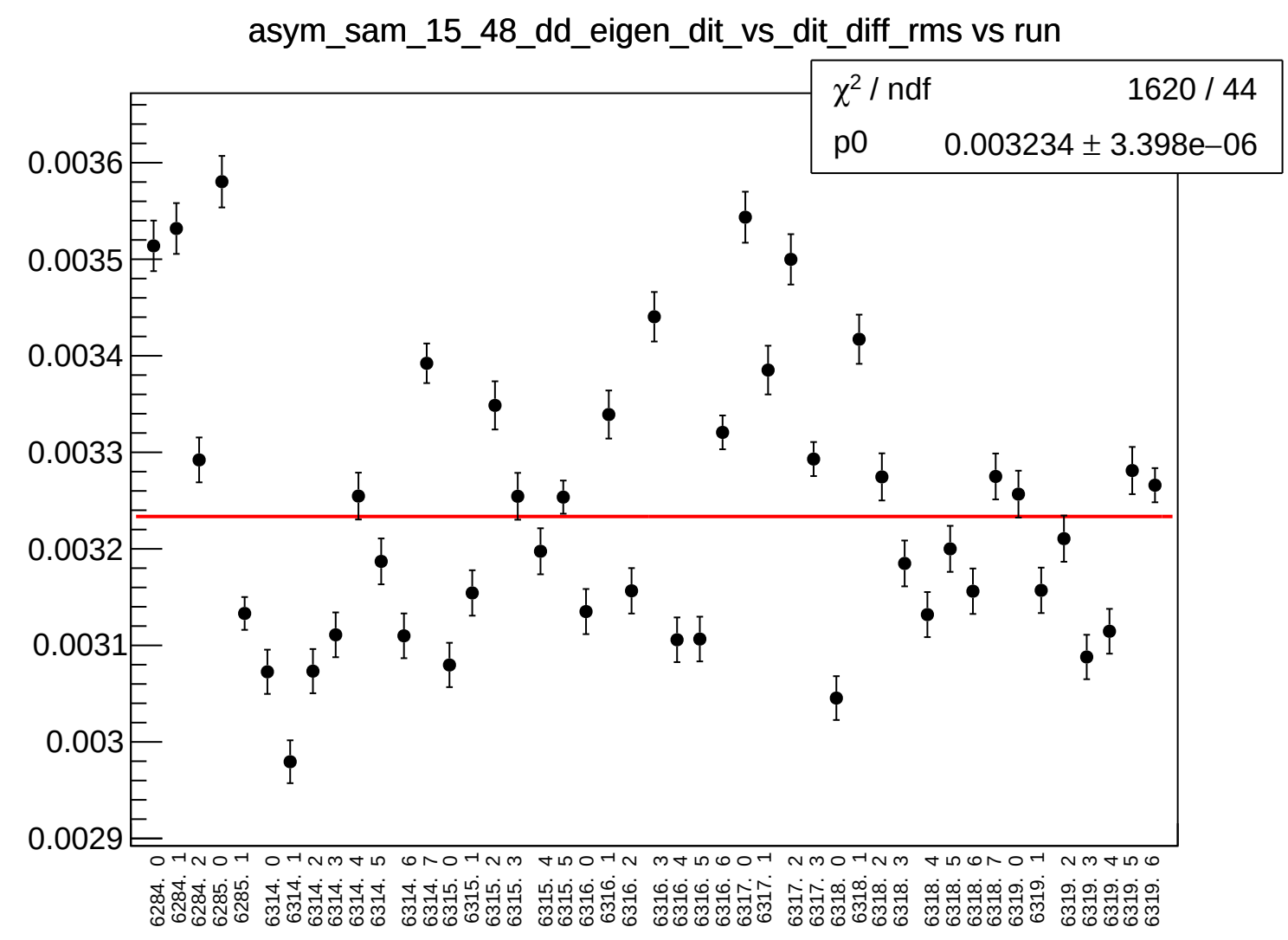

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 44
p0 26.07 ± 0.02864
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

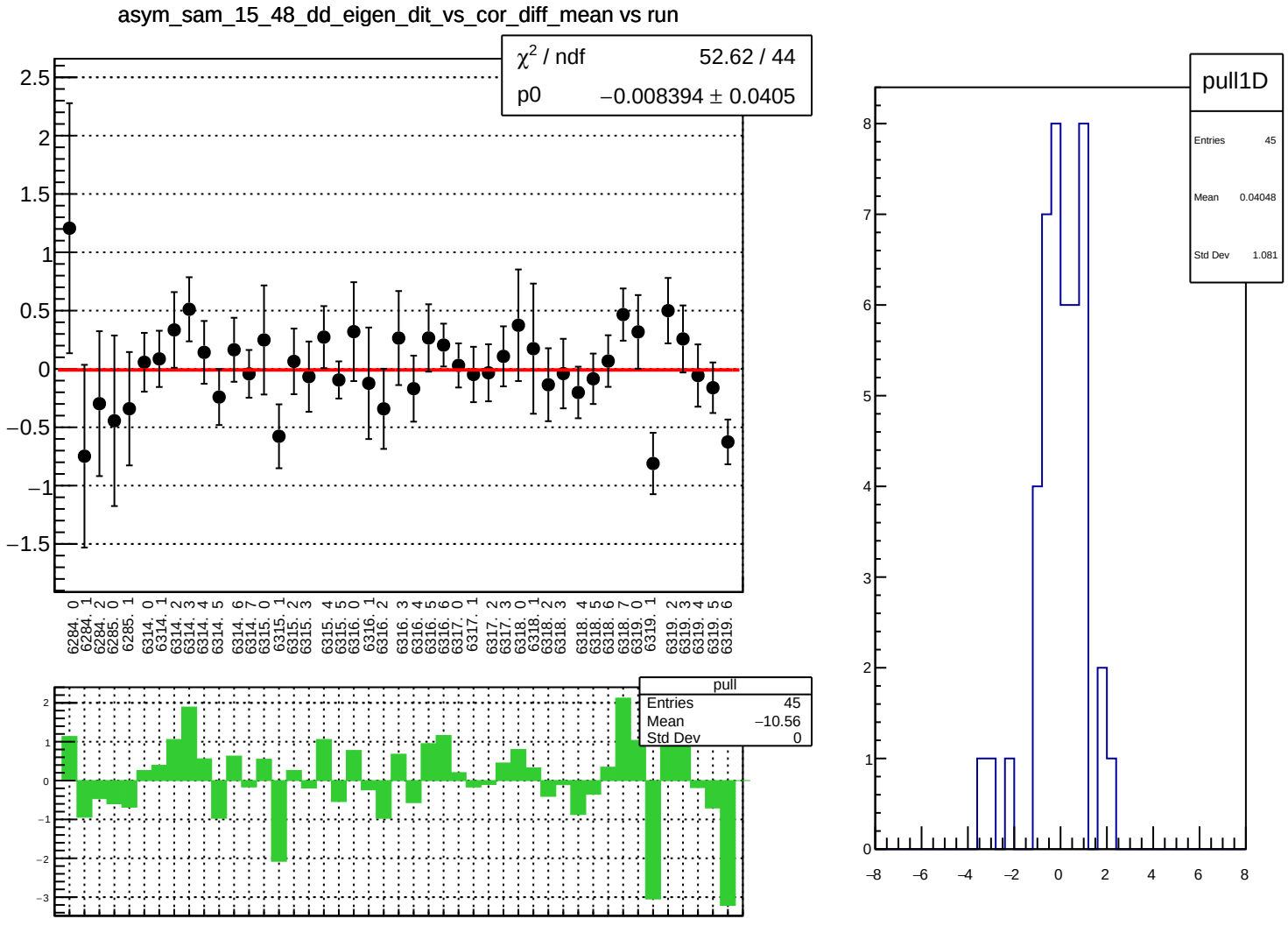

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.62 / 44
p0 −0.008389 ± 0.0405
pull
Entries 45
Mean −10.56
Std Dev 0
pull1D
Entries 45
Mean 0.04048
Std Dev 1.081

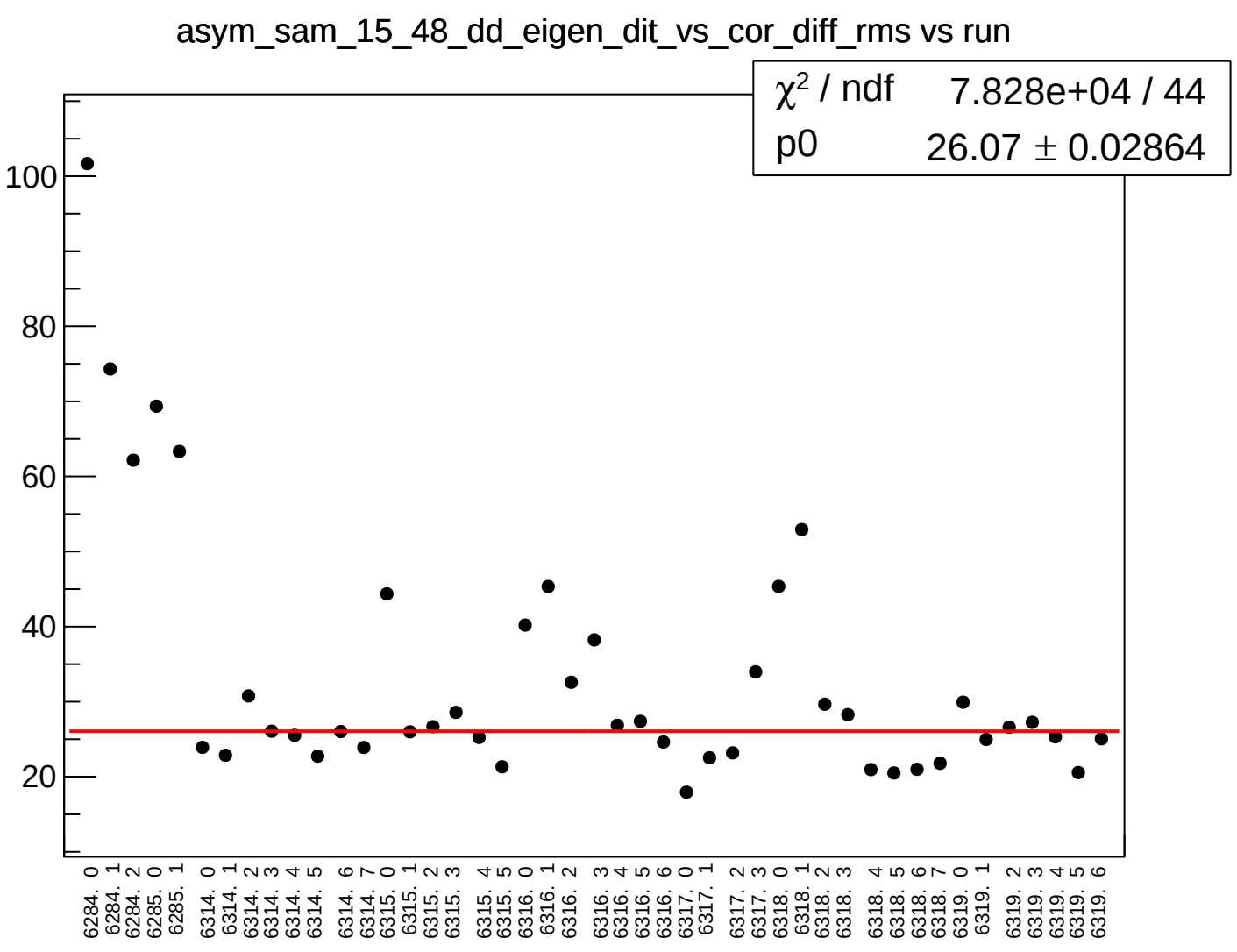

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 44
p0 26.07 ± 0.02864
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

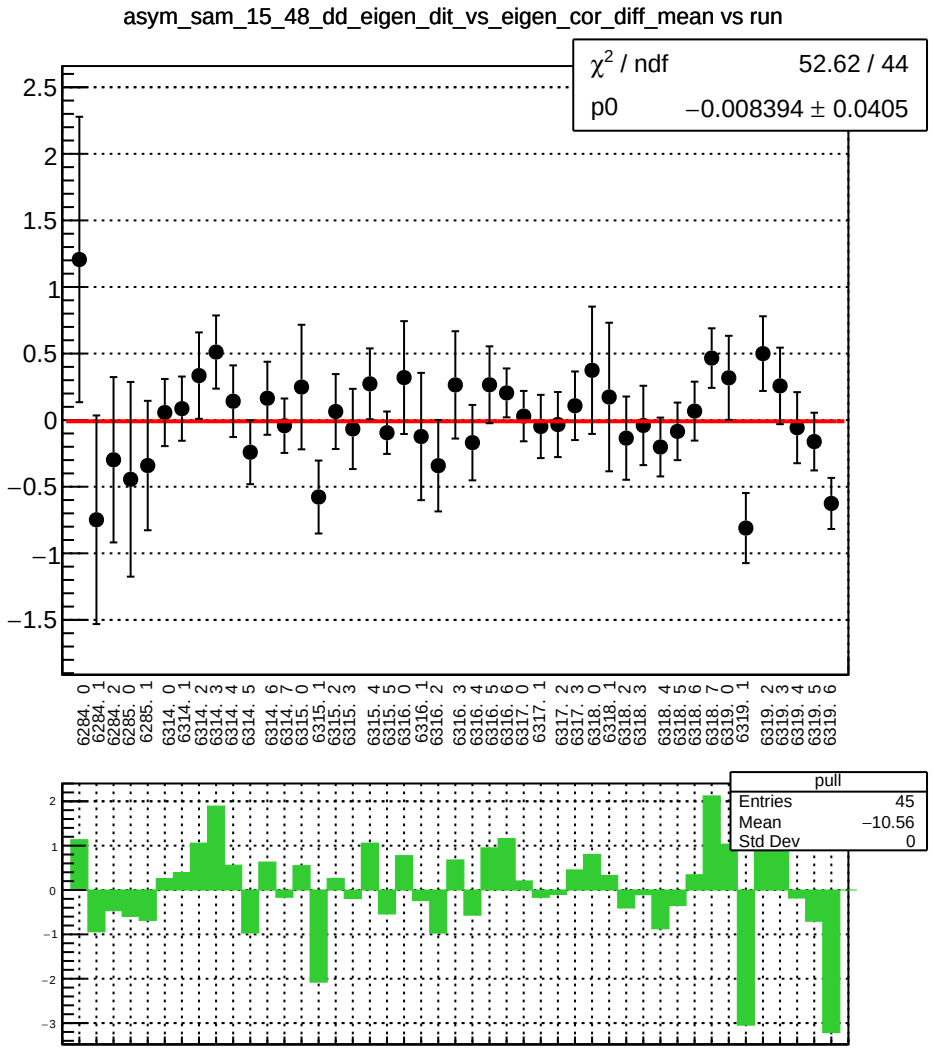

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 47.89 / 44
p0 −4.098e−06 ± 4.806e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −18.84
Std Dev 45.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

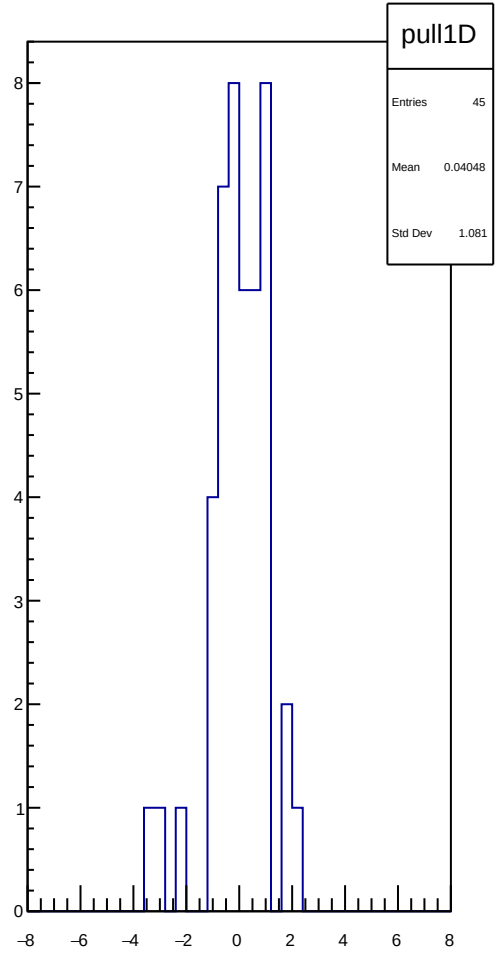

pull1D
Entries 45
Mean 0.01063
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

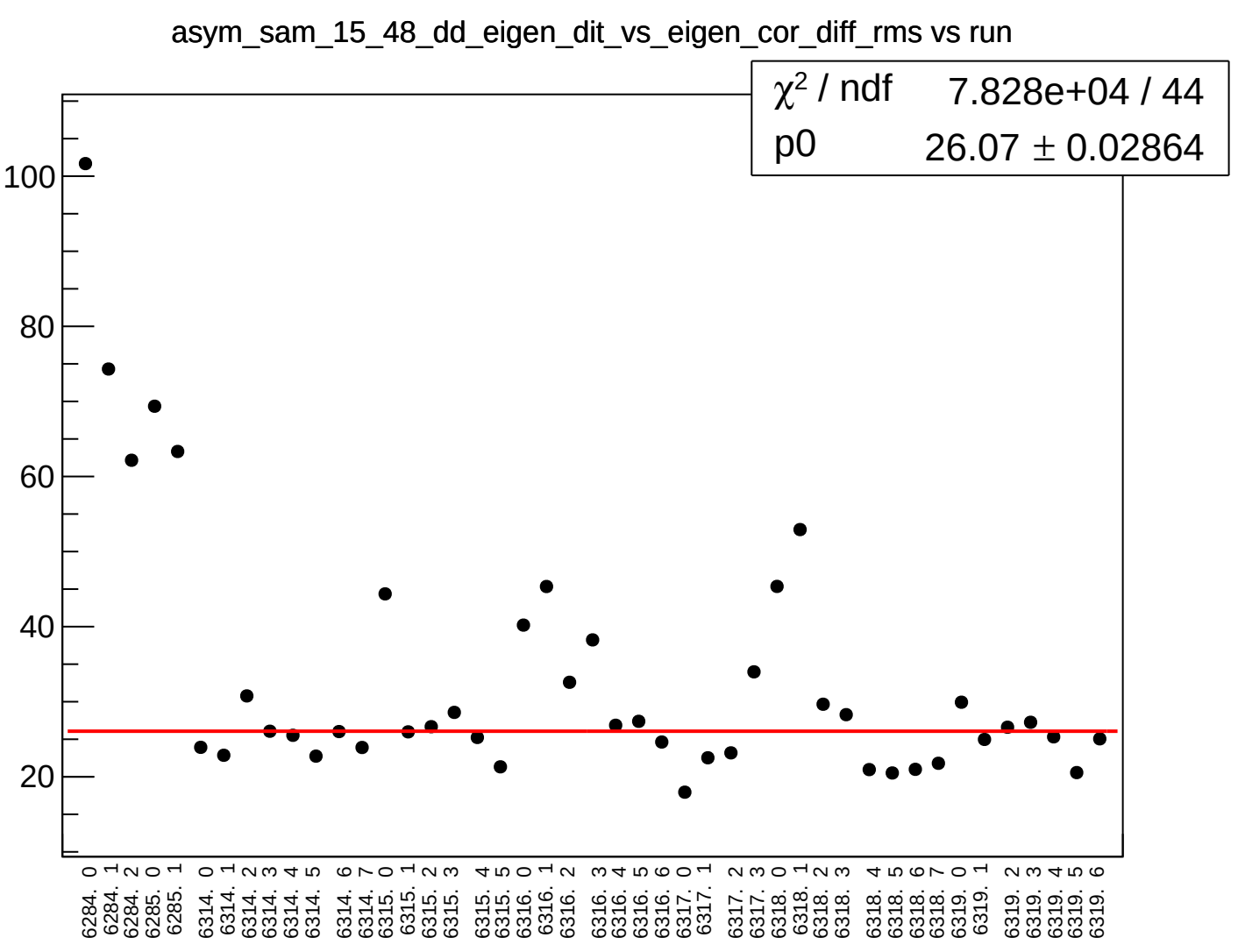

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1620 / 44
p0 0.003234 ± 3.398e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

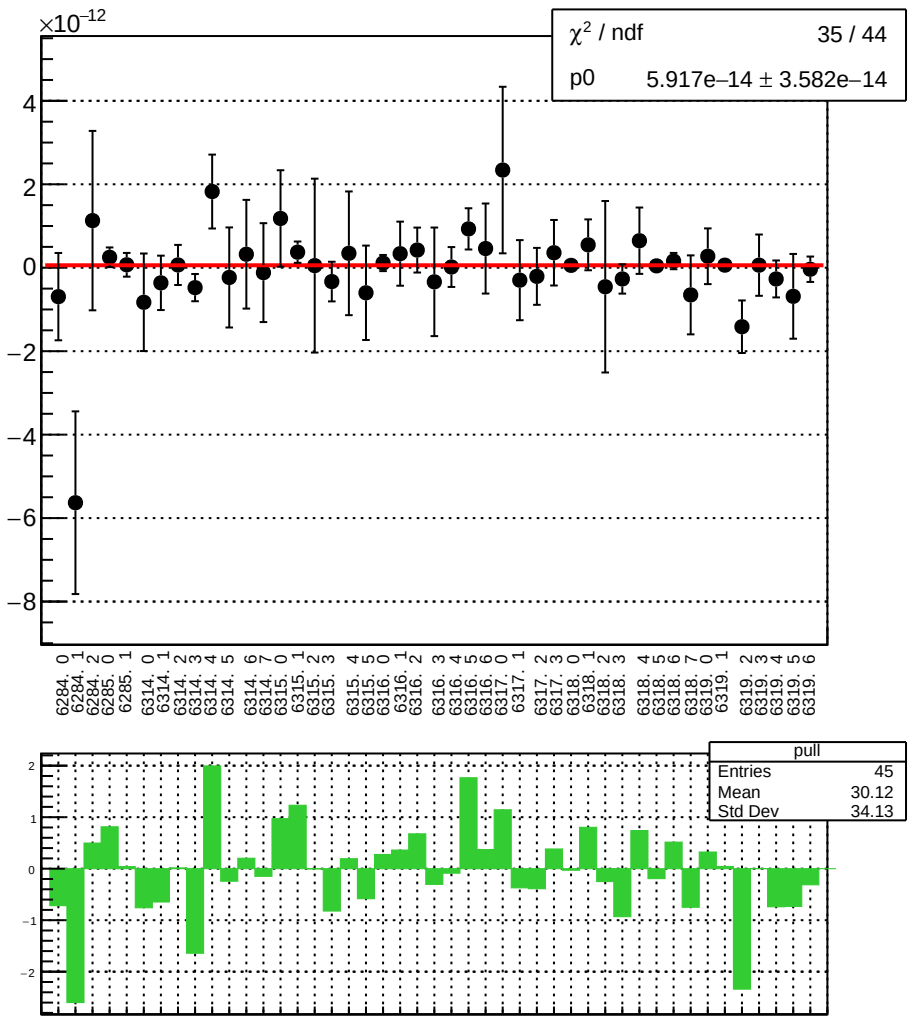

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.62 / 44
p0 −0.008394 ± 0.0405
pull
Entries 45
Mean −10.56
Std Dev 0
pull1D
Entries 45
Mean 0.04048
Std Dev 1.081

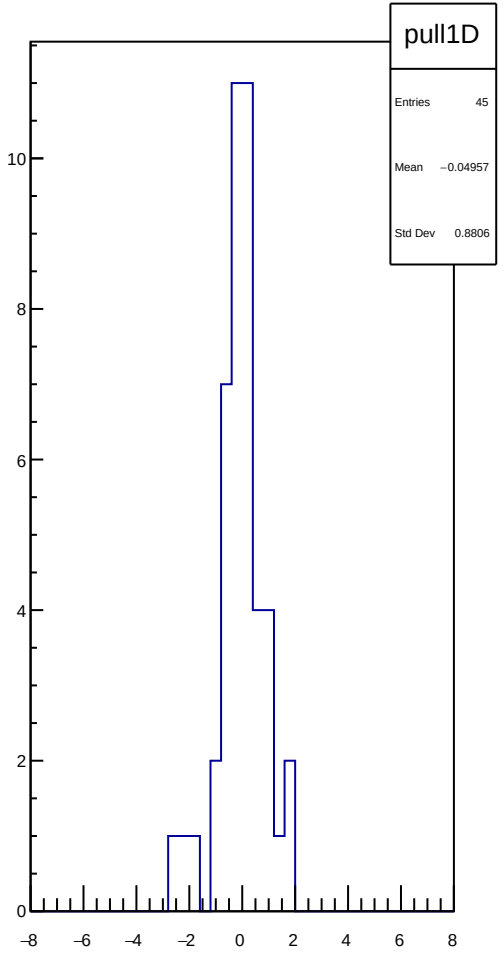

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 44
p0 26.07 ± 0.02864
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

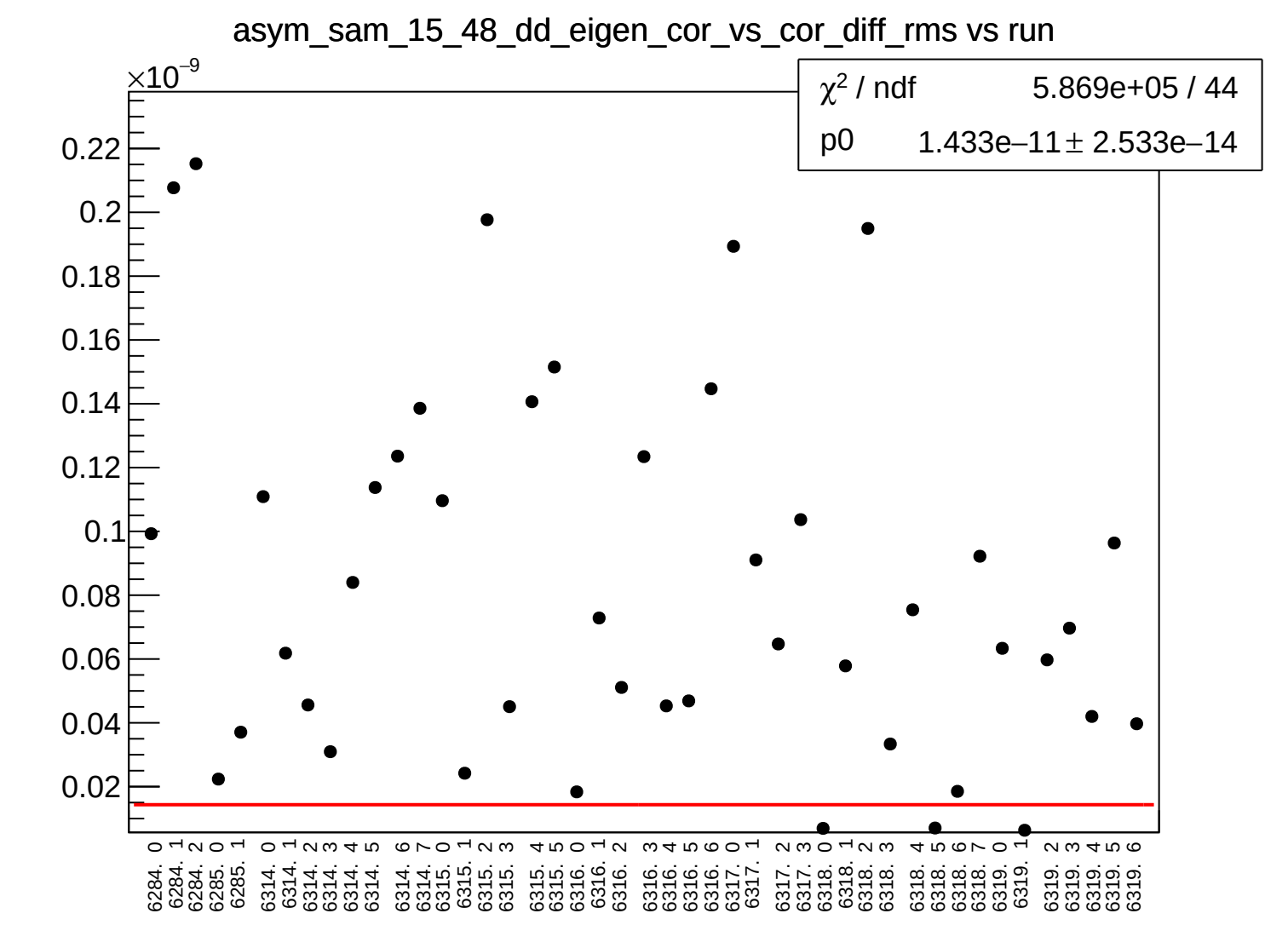

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.62 / 44
p0 −0.008394 ± 0.0405
pull
Entries 45
Mean −10.56
Std Dev 0

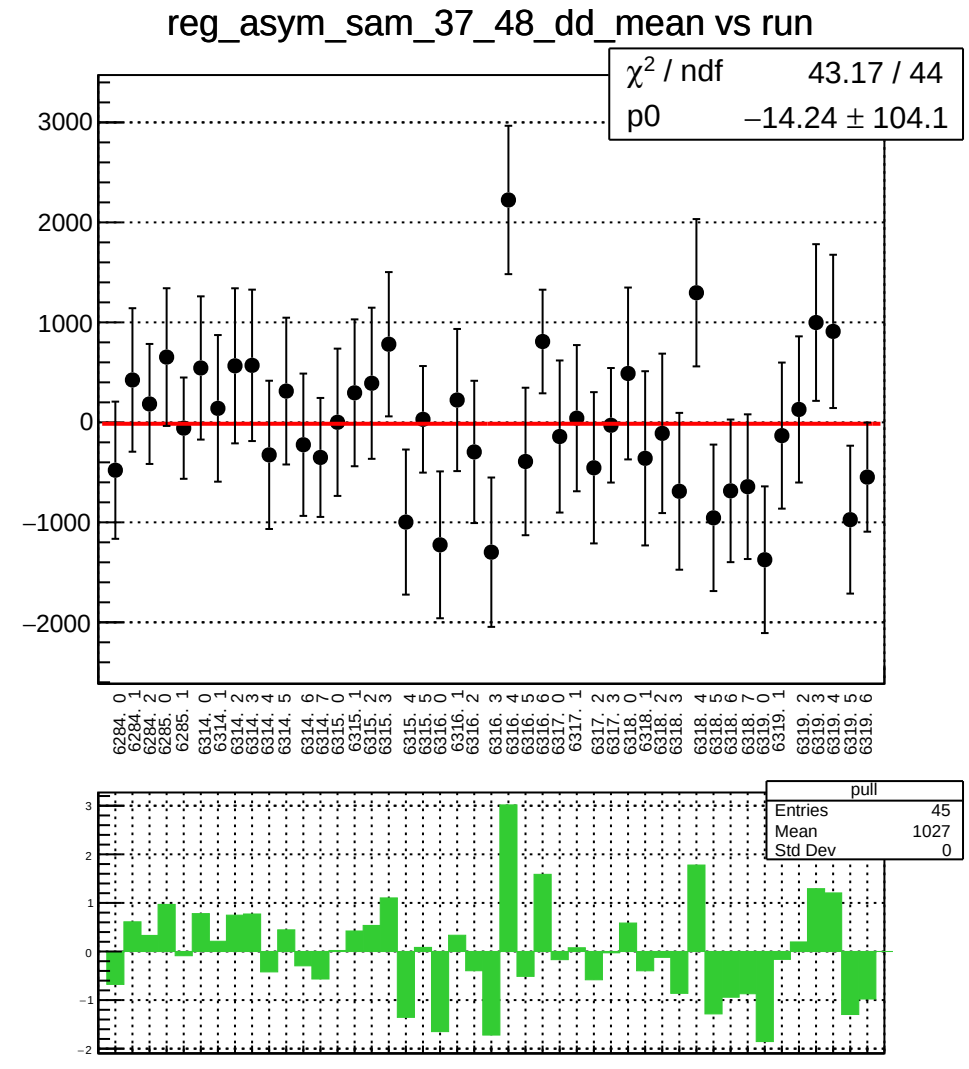

pull1D
Entries 45
Mean 0.04048
Std Dev 1.081

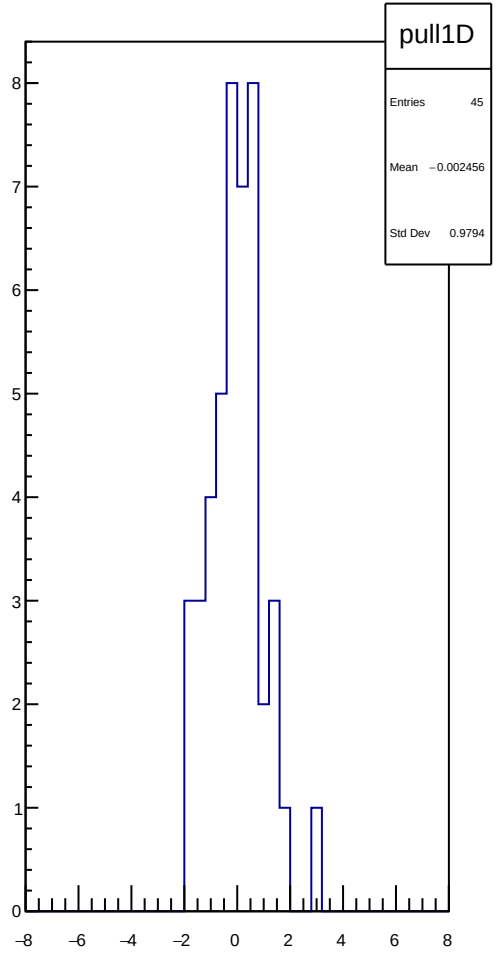

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 44
p0 26.07 ± 0.02864
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

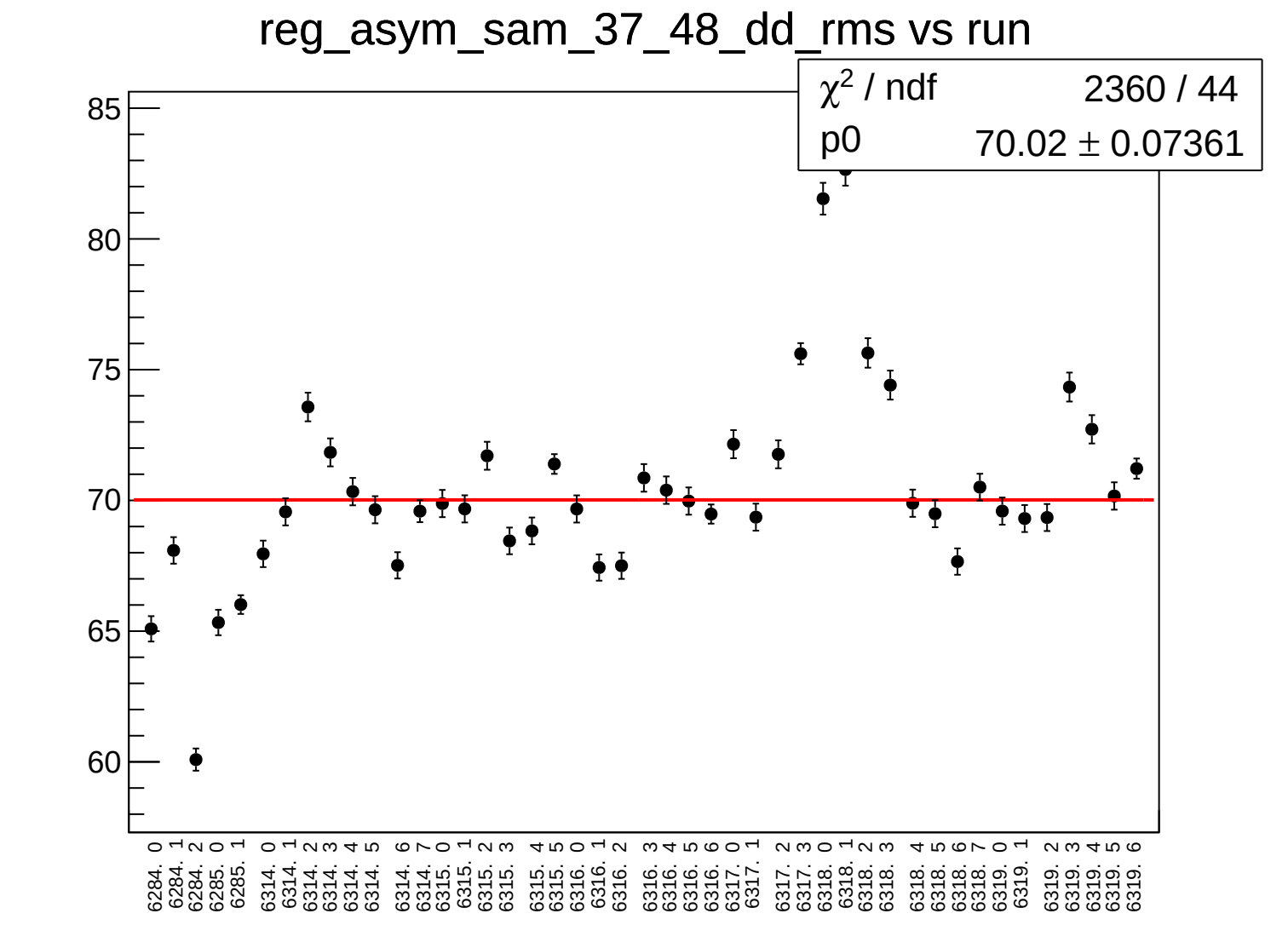

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35 / 44
p0 5.917e−14 ± 3.582e−14
pull
Entries 45
Mean 30.12
Std Dev 34.13

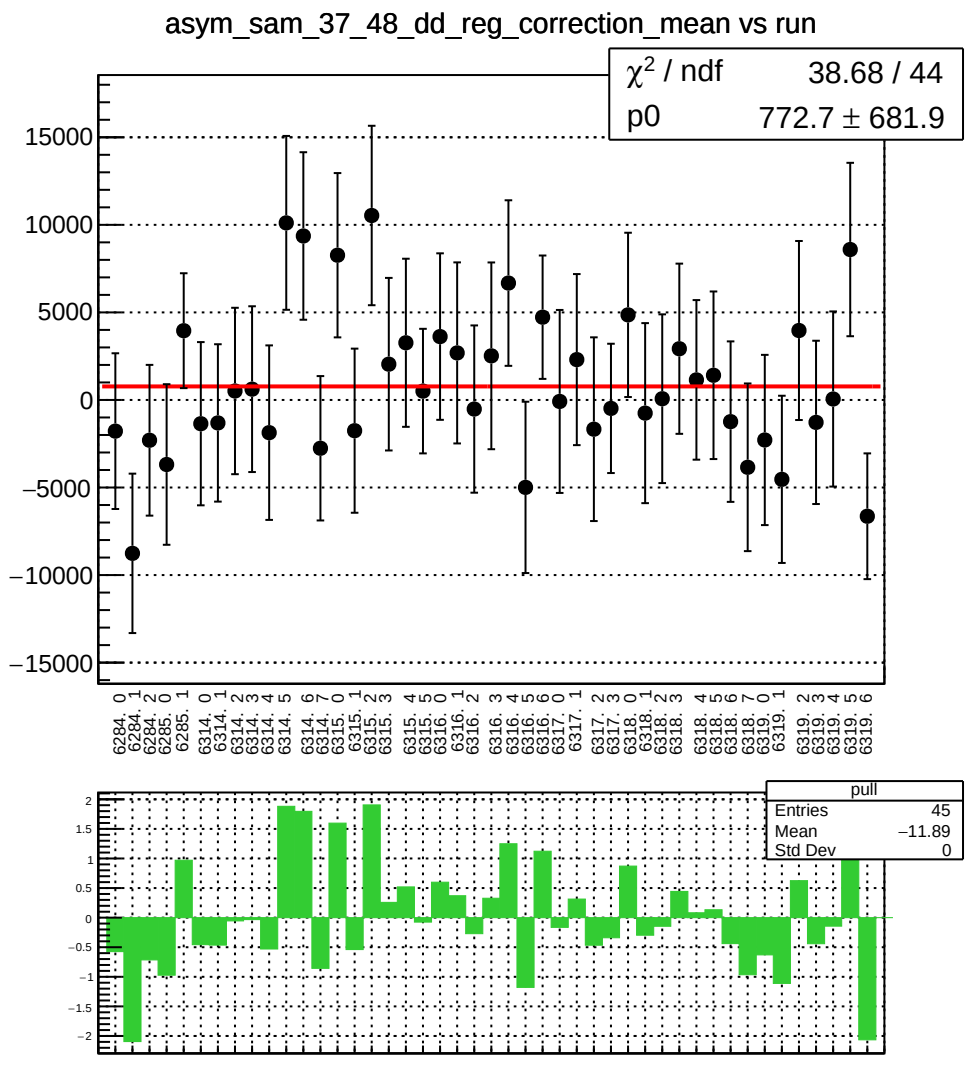

pull1D
Entries 45
Mean −0.04957
Std Dev 0.8806

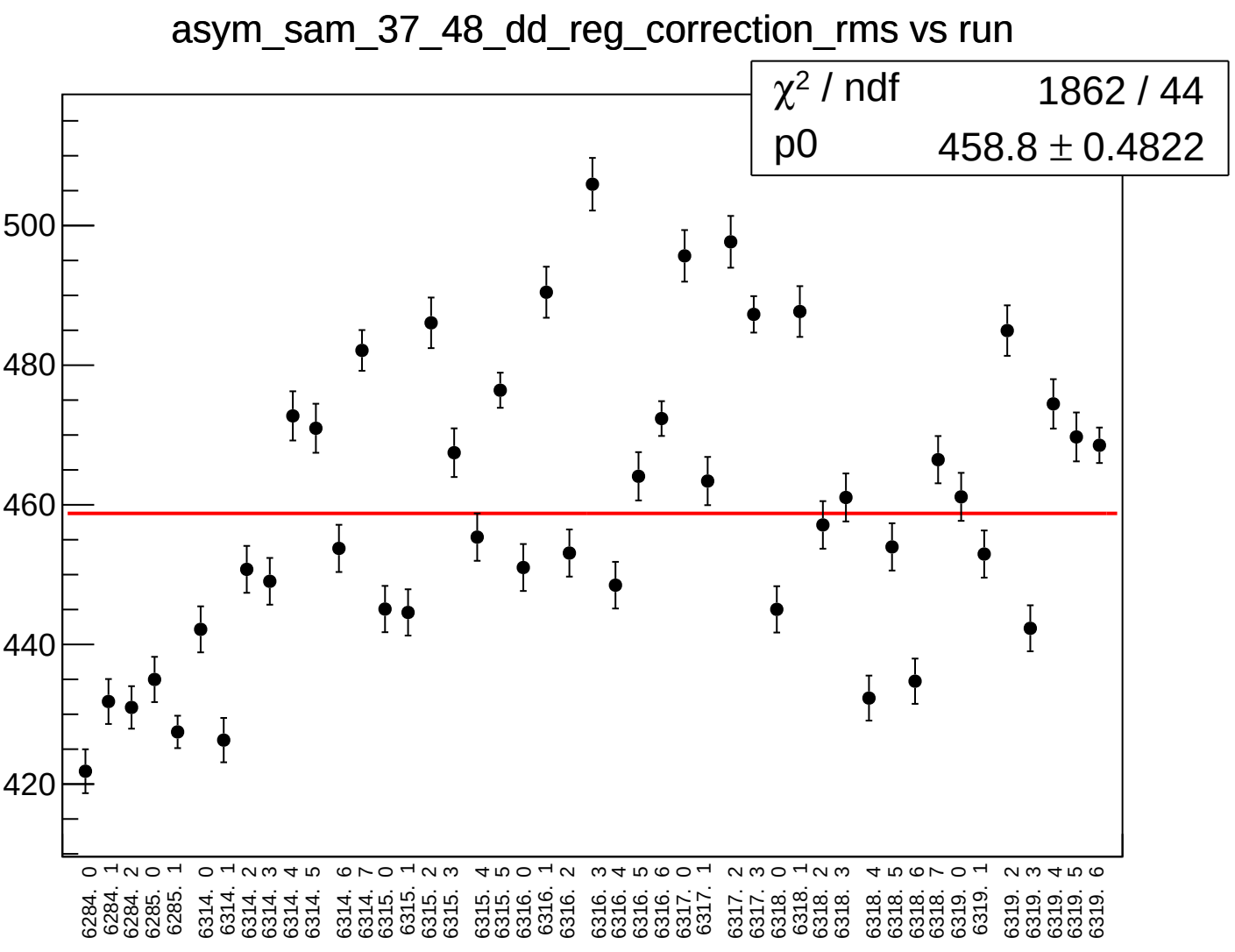

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.869e+05 / 44
p0 1.433e−11 ± 2.533e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

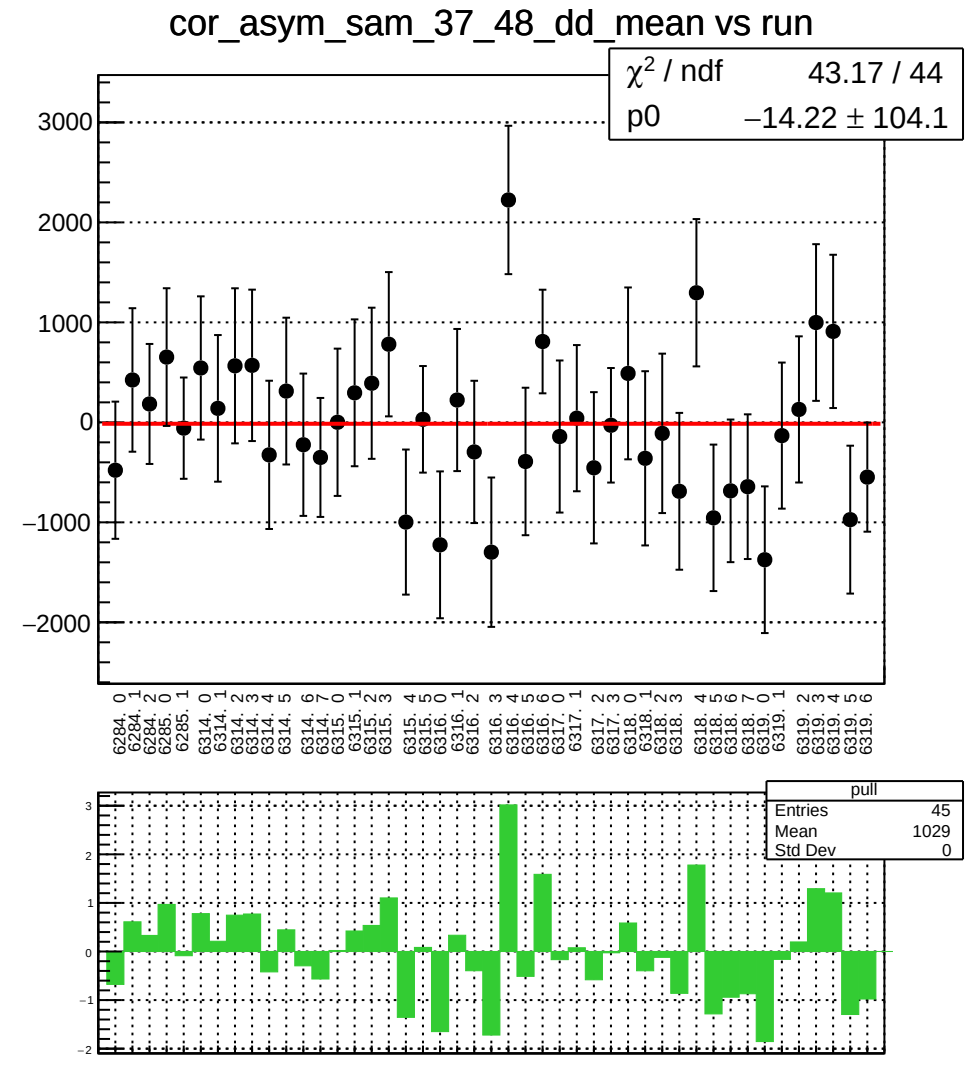

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.17 / 44
p0 −14.24 ± 104.1
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1027
Std Dev 0
3
2
1
0
−1
−2

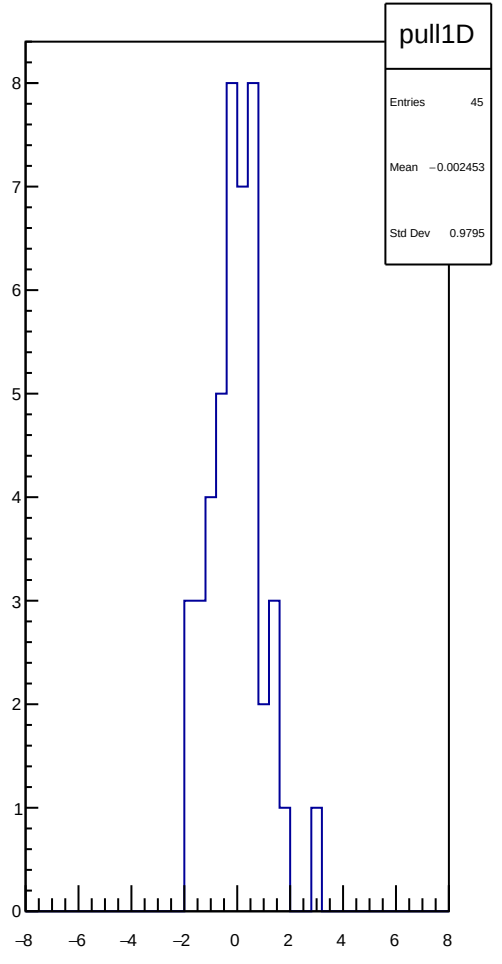

pull1D
Entries 45
Mean −0.002456
Std Dev 0.9794
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

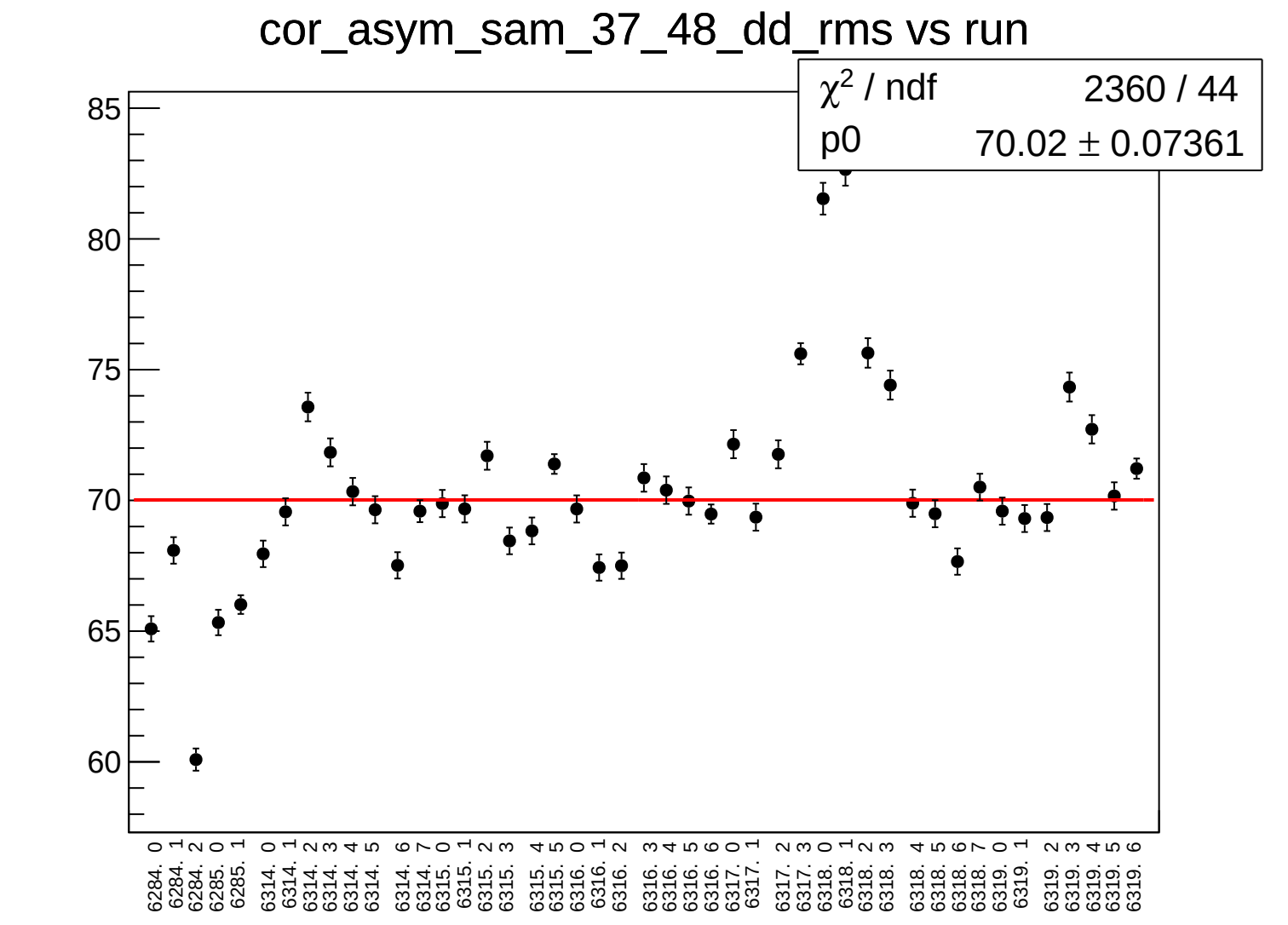

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2360 / 44
p0 70.02 ± 0.07361
85
80
75
70
65
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 38.68 / 44
p0 772.7 ± 681.9
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01384
Std Dev 0.927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1862 / 44
p0 458.8 ± 0.4822
500
480
460
440
420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.17 / 44
p0 −14.22 ± 104.1
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1029
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.002453
Std Dev 0.9795
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2360 / 44
p0 70.02 ± 0.07361
85
80
75
70
65
60
6284. 0
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6315. 3
6315. 4
6315. 5
6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
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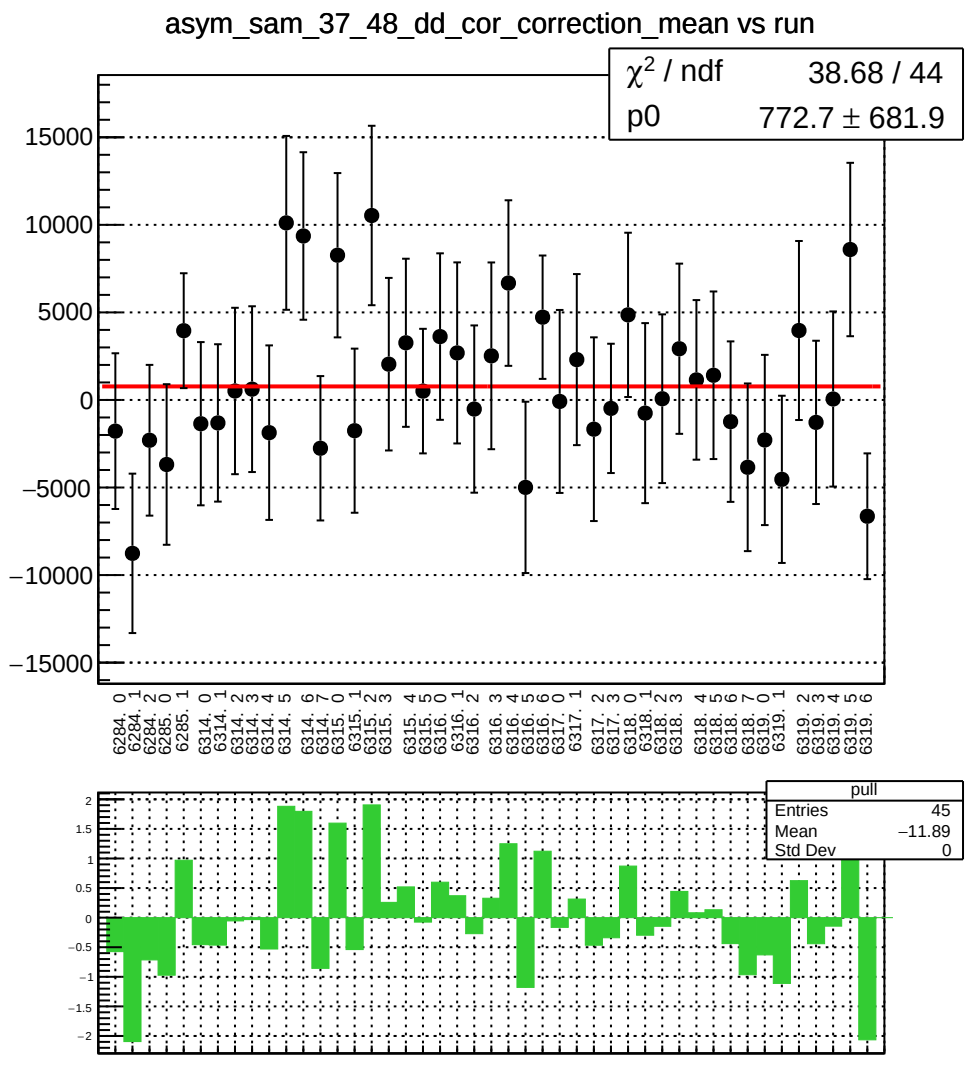
asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 38.68 / 44
p0 772.7 ± 681.9
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 4
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6317. 3
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6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −11.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01384
Std Dev 0.927
10
8
6
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2
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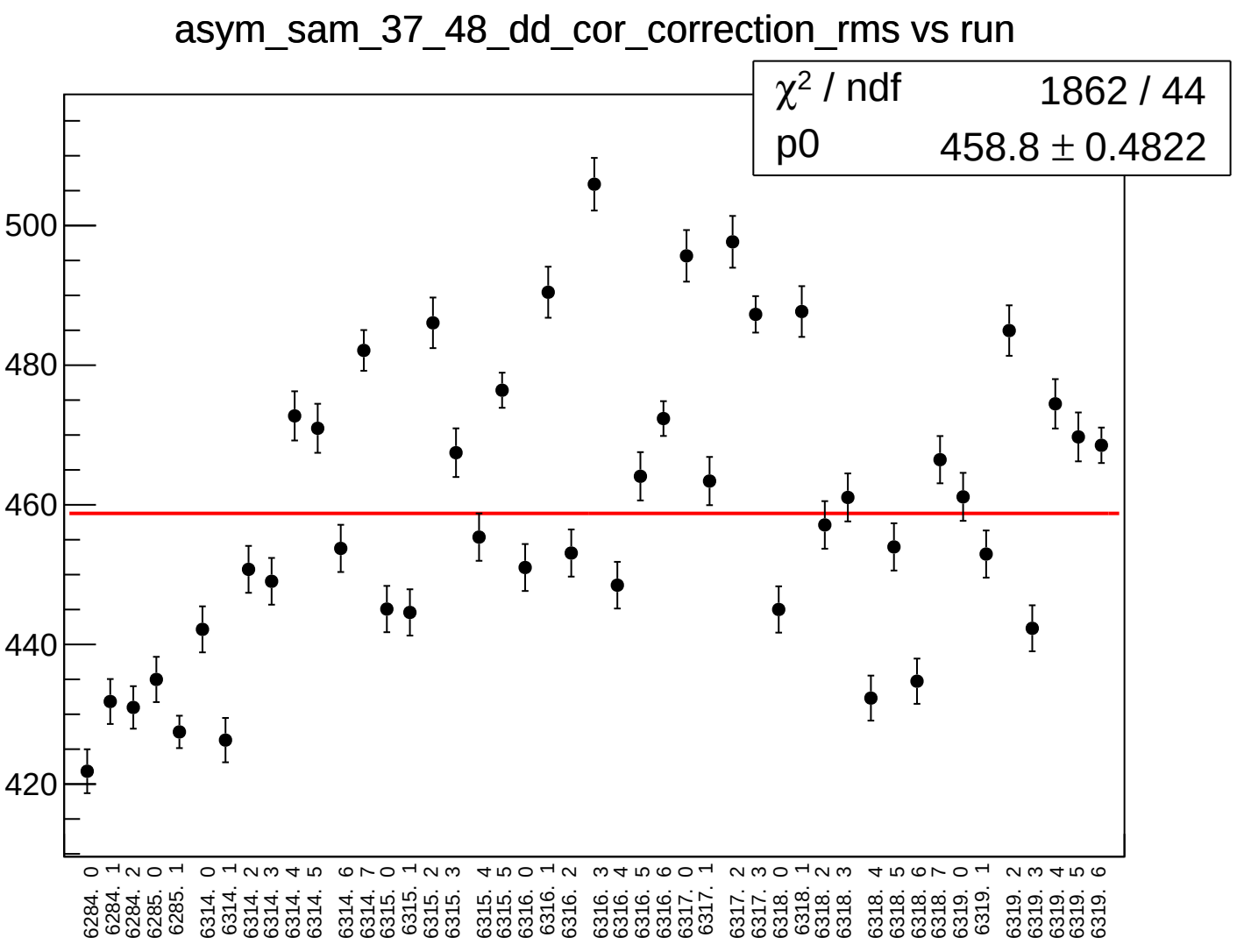
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1862 / 44
p0 458.8 ± 0.4822
500
480
460
440
420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
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6316. 6
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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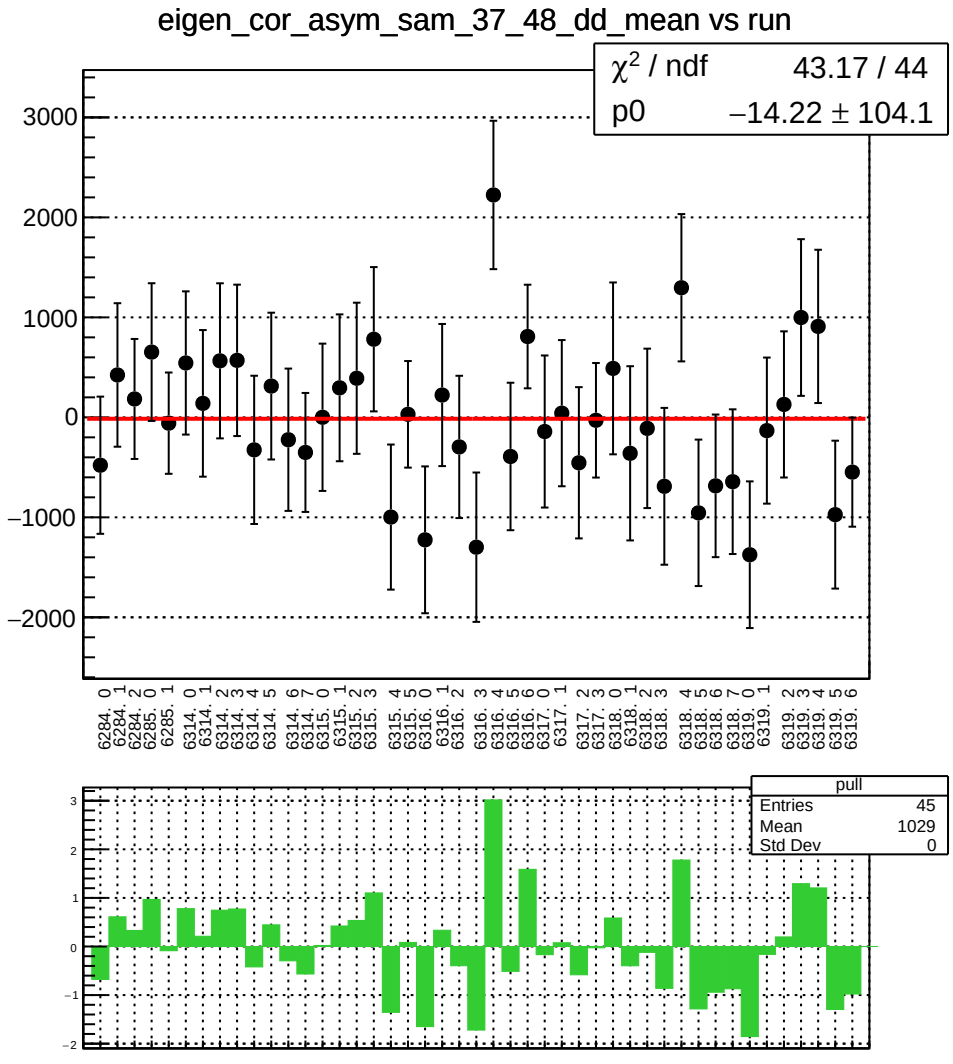
6319. 6


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.17 / 44
p0 −14.22 ± 104.1
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
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6315. 2
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6317. 0
6317. 1
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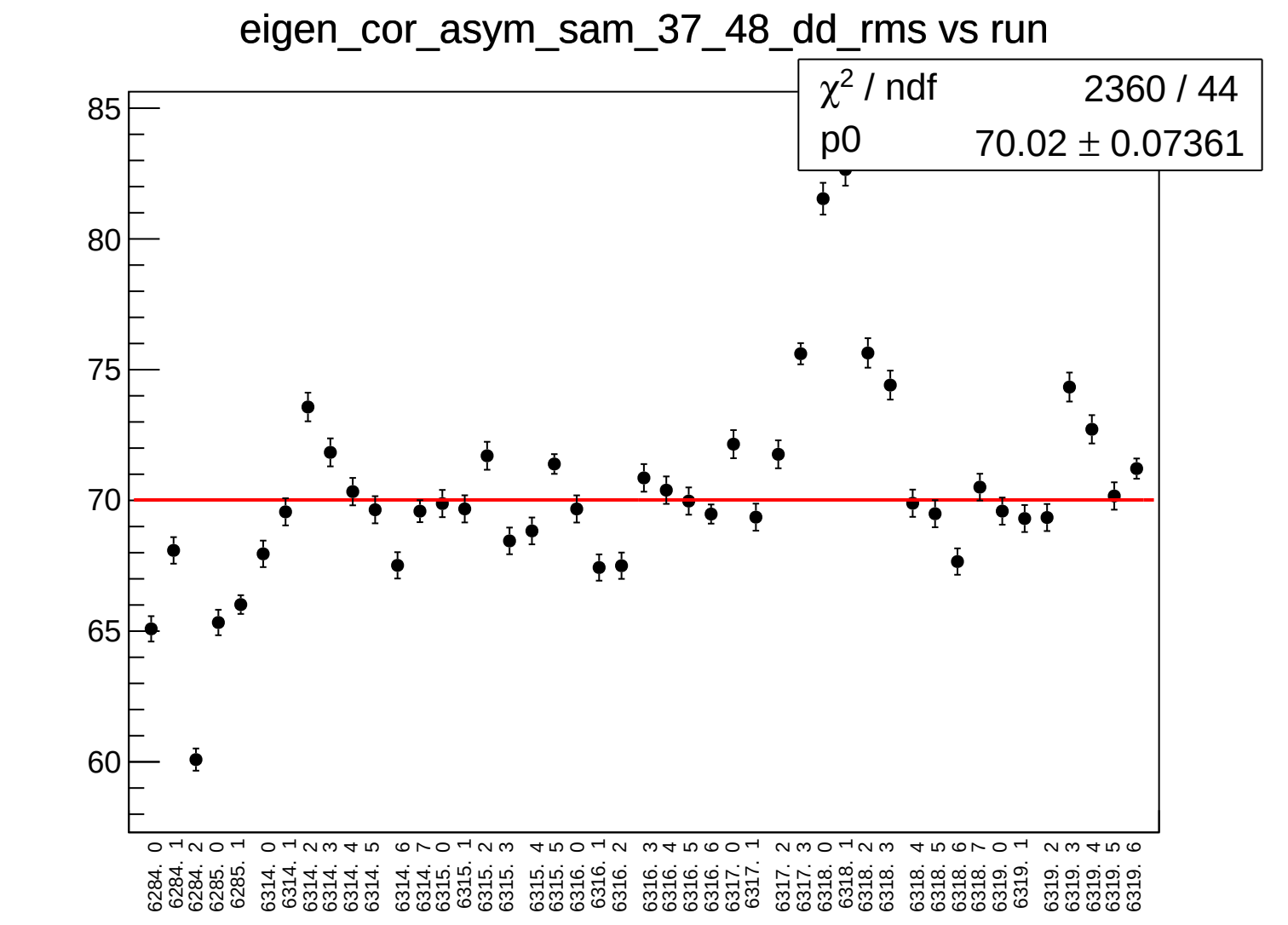
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1029
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.002453
Std Dev 0.9795
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2360 / 44
p0 70.02 ± 0.07361
85
80
75
70
65
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6316. 6
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6318. 2
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6319. 3
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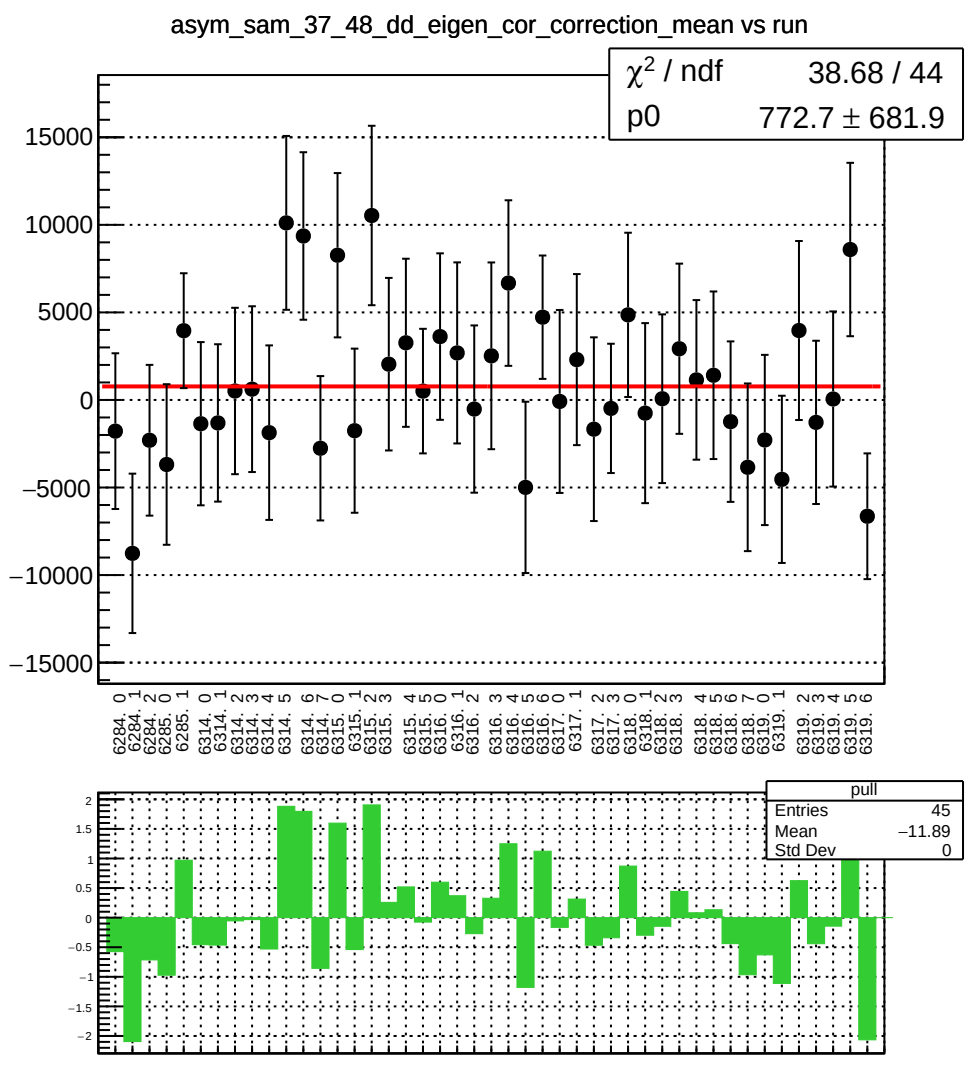
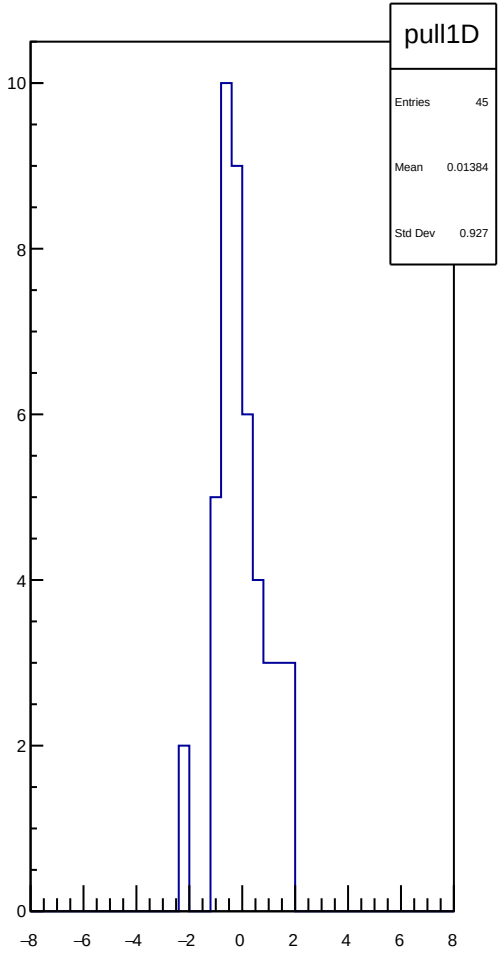
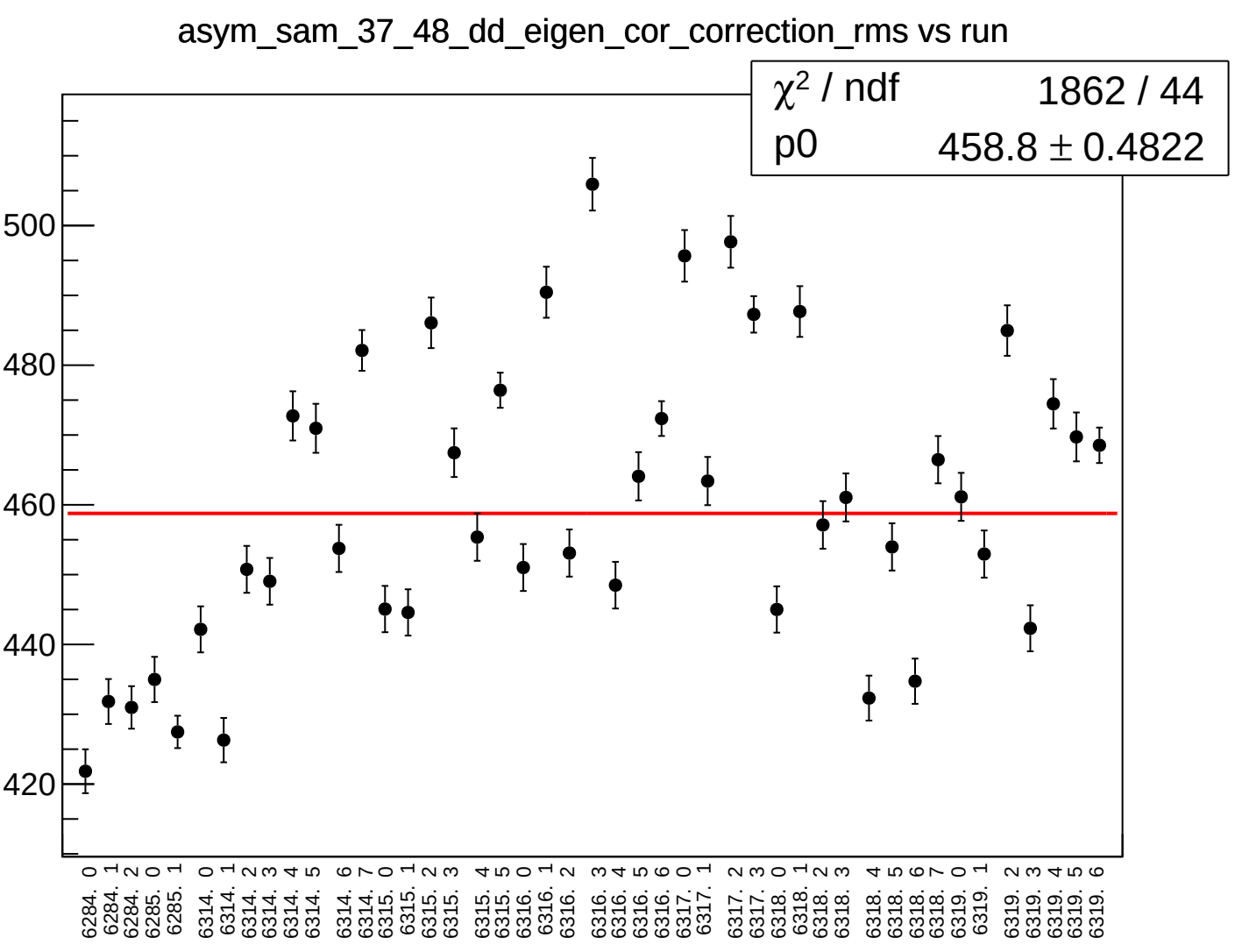
6319. 5
6319. 6


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.68 / 44
p0 772.7 ± 681.9
pull
Entries 45
Mean −11.89
Std Dev 0


pull1D
Entries 45
Mean 0.01384
Std Dev 0.927


asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1862 / 44
p0 458.8 ± 0.4822
500
480
460
440
420
6284. 0
6284. 1
6284. 2
6285. 0
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6314. 0
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6318. 2
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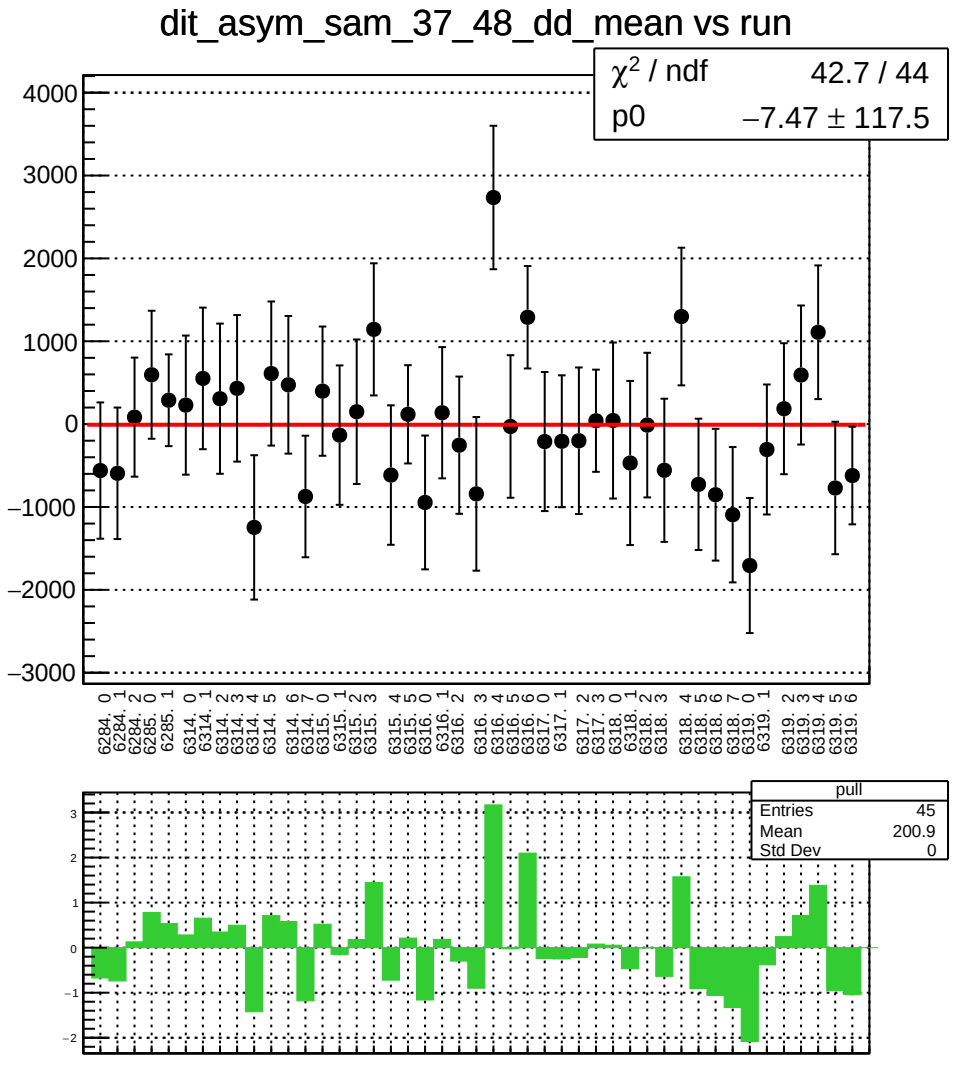
dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.7 / 44
p0 −7.47 ± 117.5
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6316. 2
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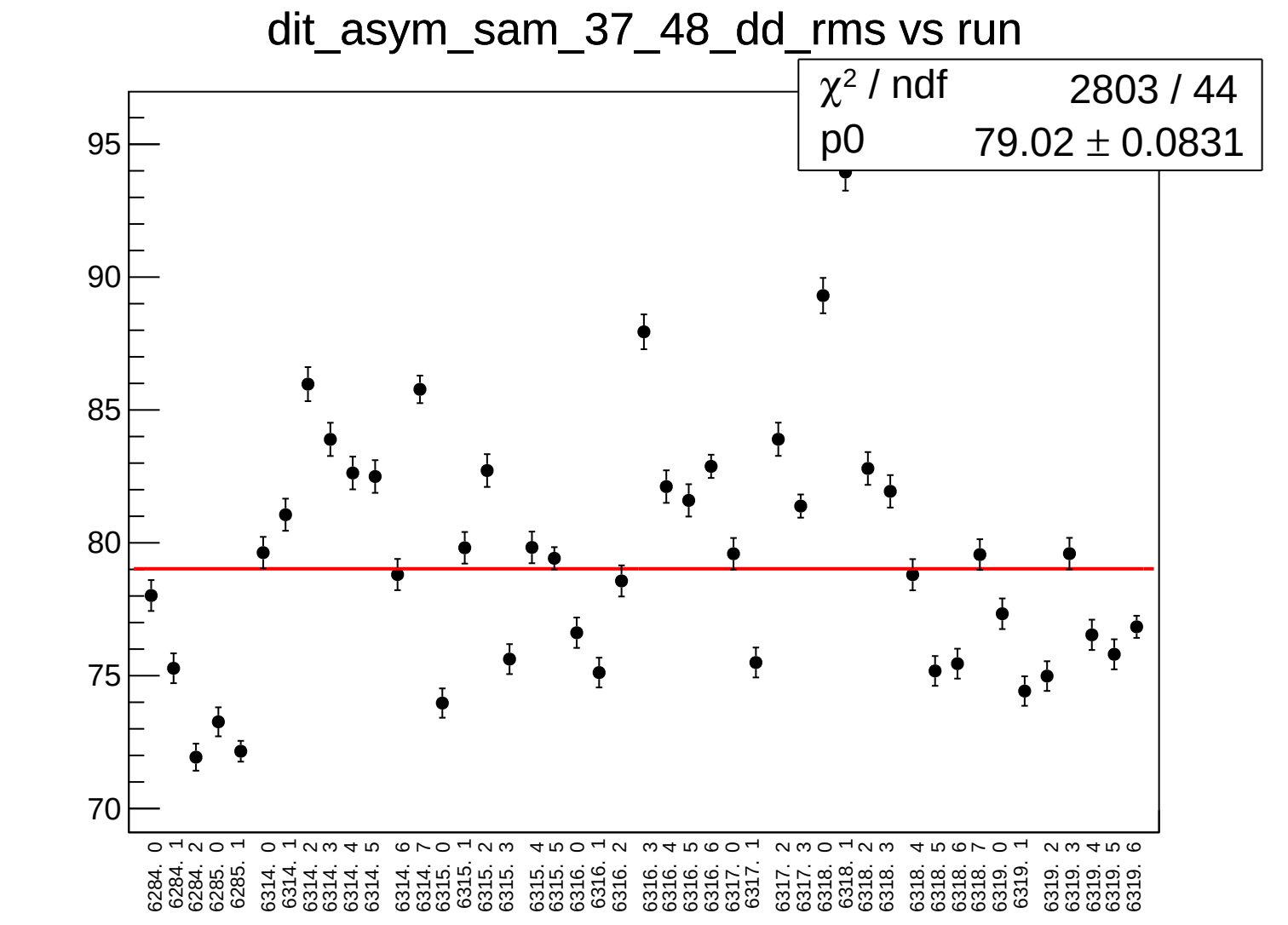
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01062
Std Dev 0.9741
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2803 / 44
p0 79.02 ± 0.0831
95
90
85
80
75
70
6284. 0
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6284. 2
6285. 0
6285. 1
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6314. 1
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6317. 2
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6318. 0
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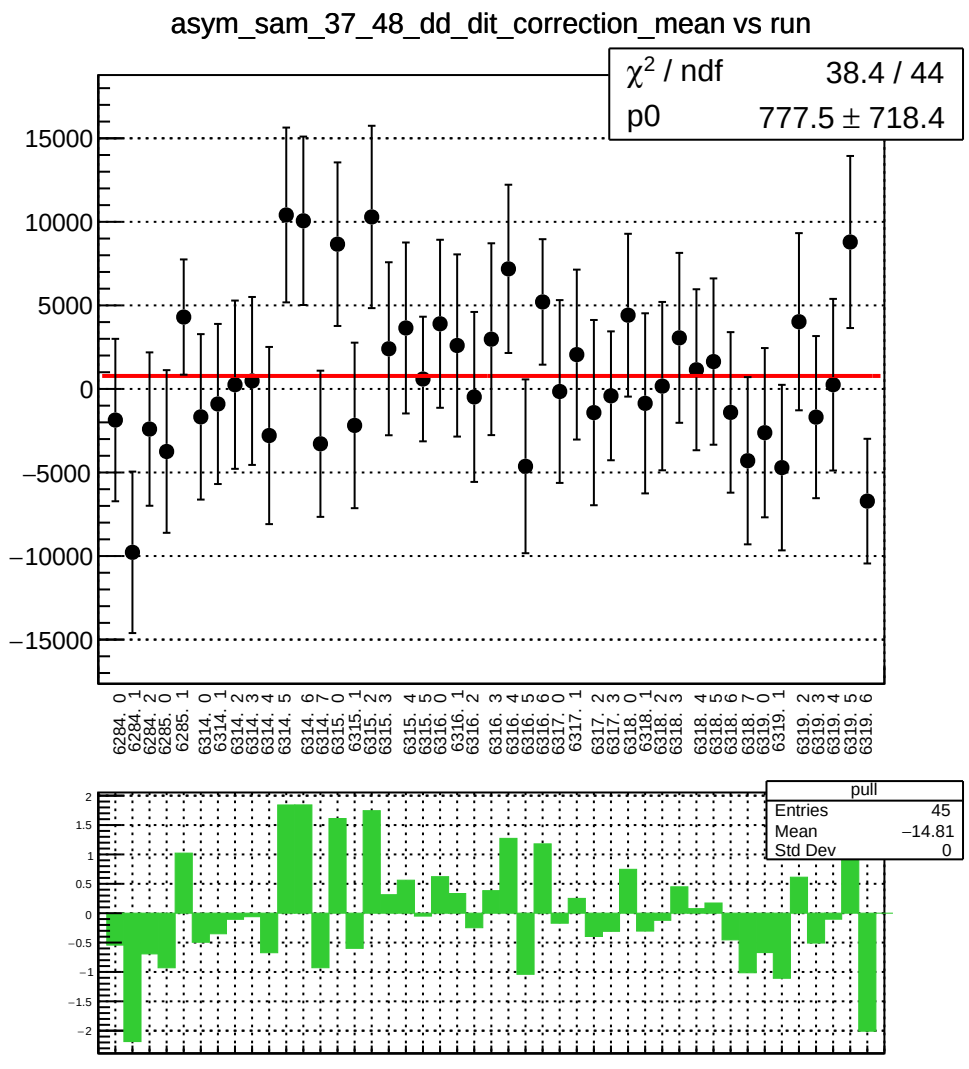
6319. 6


asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 38.4 / 44
p0 777.5 ± 718.4
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6318. 0
6318. 1
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −14.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01197
Std Dev 0.9237
10
8
6
4
2
0
−8
−6
−4
−2
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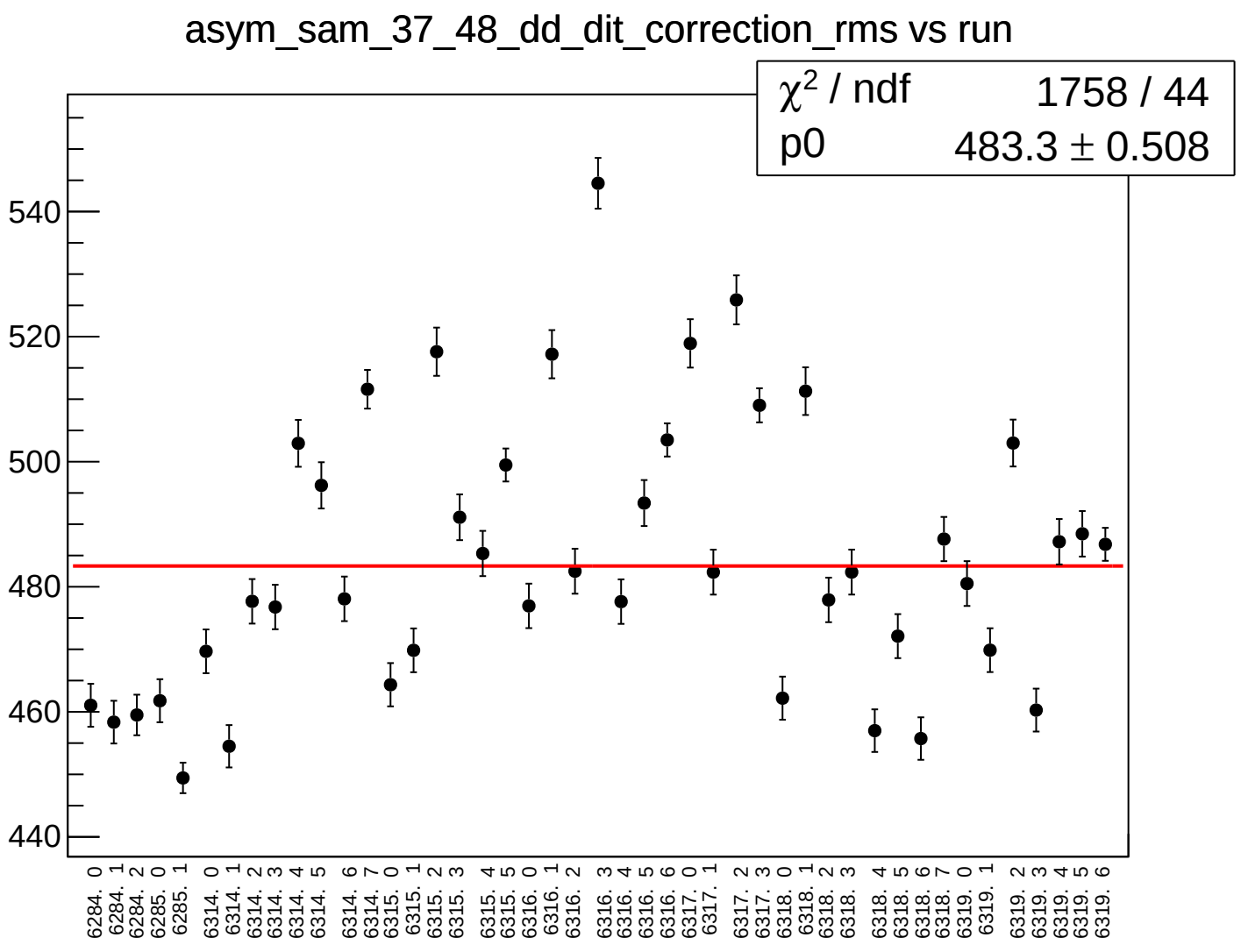
2
4
6
8


asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1758 / 44
p0 483.3 ± 0.508
540
520
500
480
460
440
6284. 0
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6284. 2
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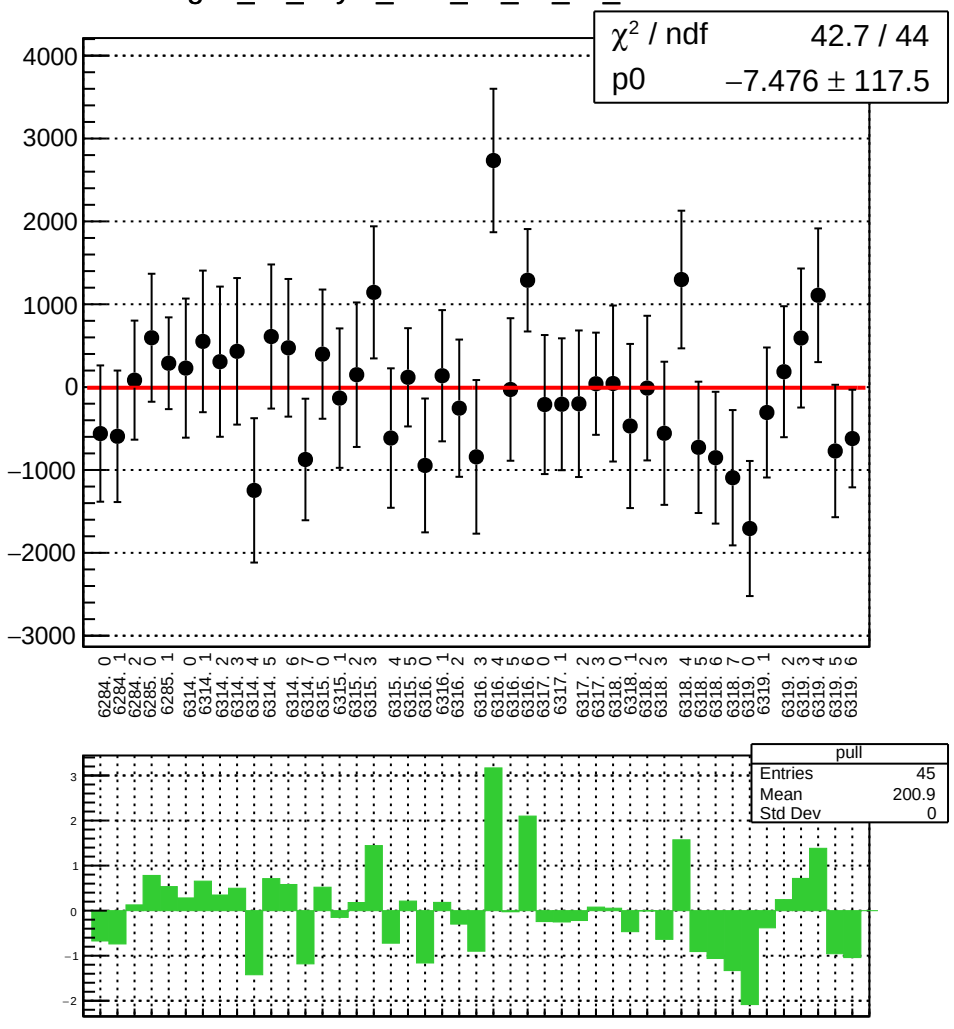
eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.7 / 44
p0 −7.476 ± 117.5
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6316. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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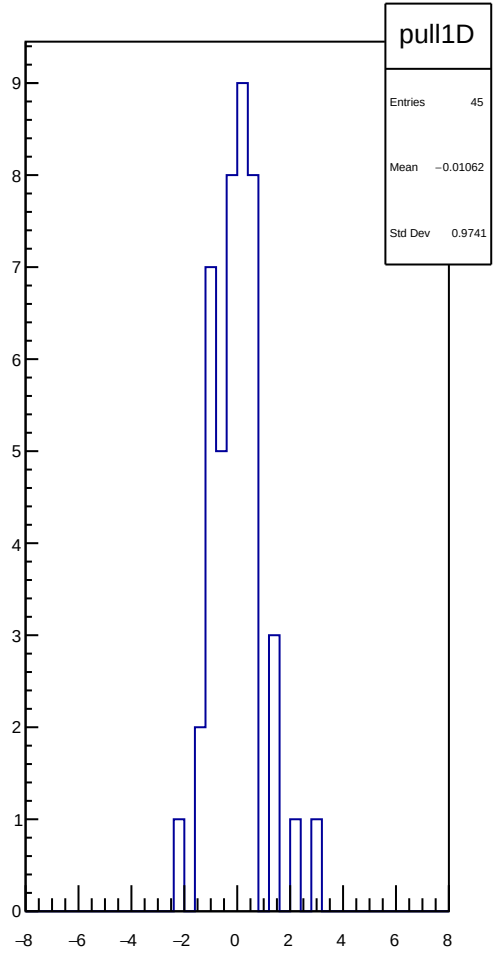
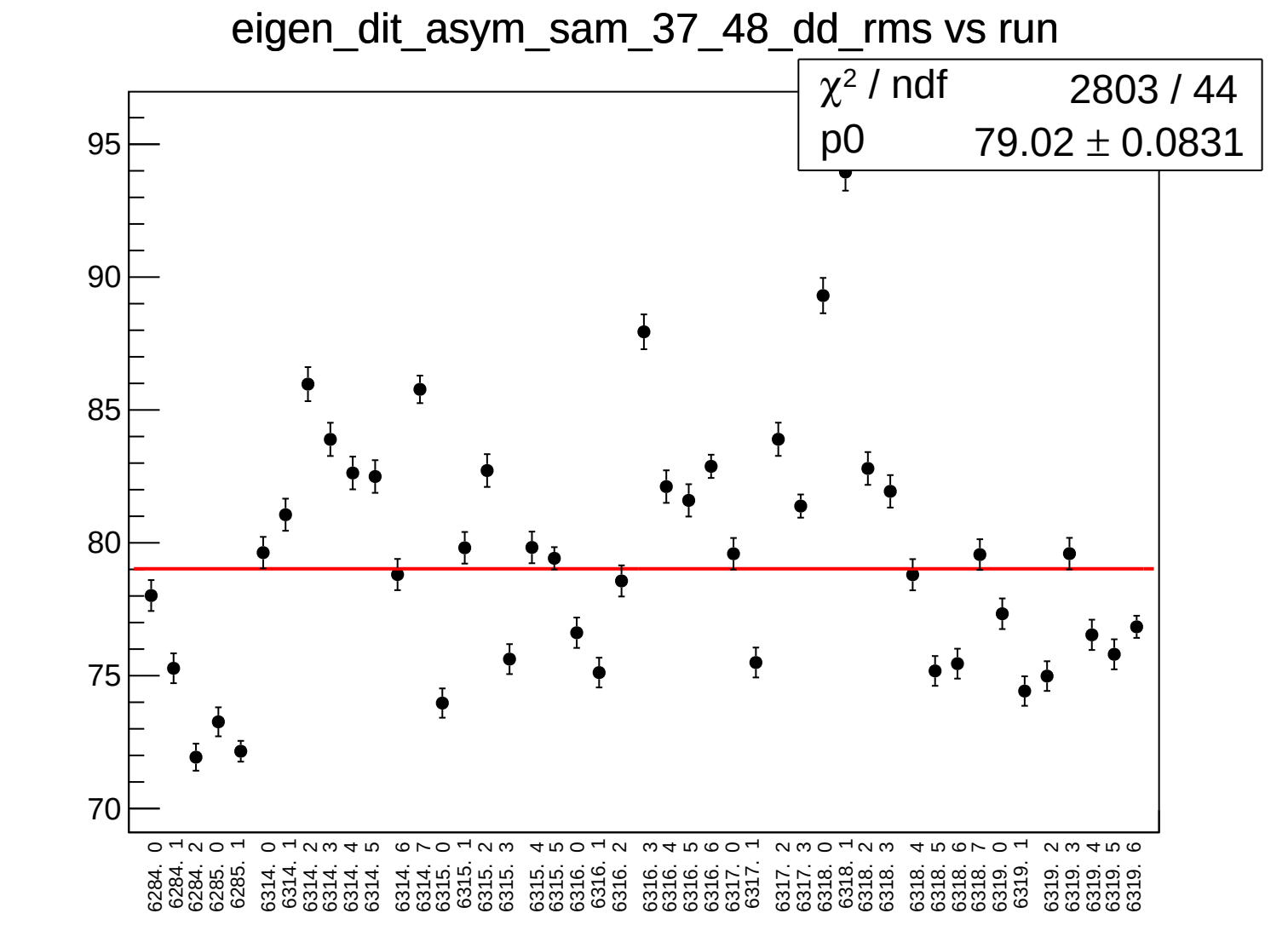
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01062
Std Dev 0.9741
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2803 / 44
p0 79.02 ± 0.0831
95
90
85
80
75
70
6284. 0
6284. 1
6284. 2
6285. 0
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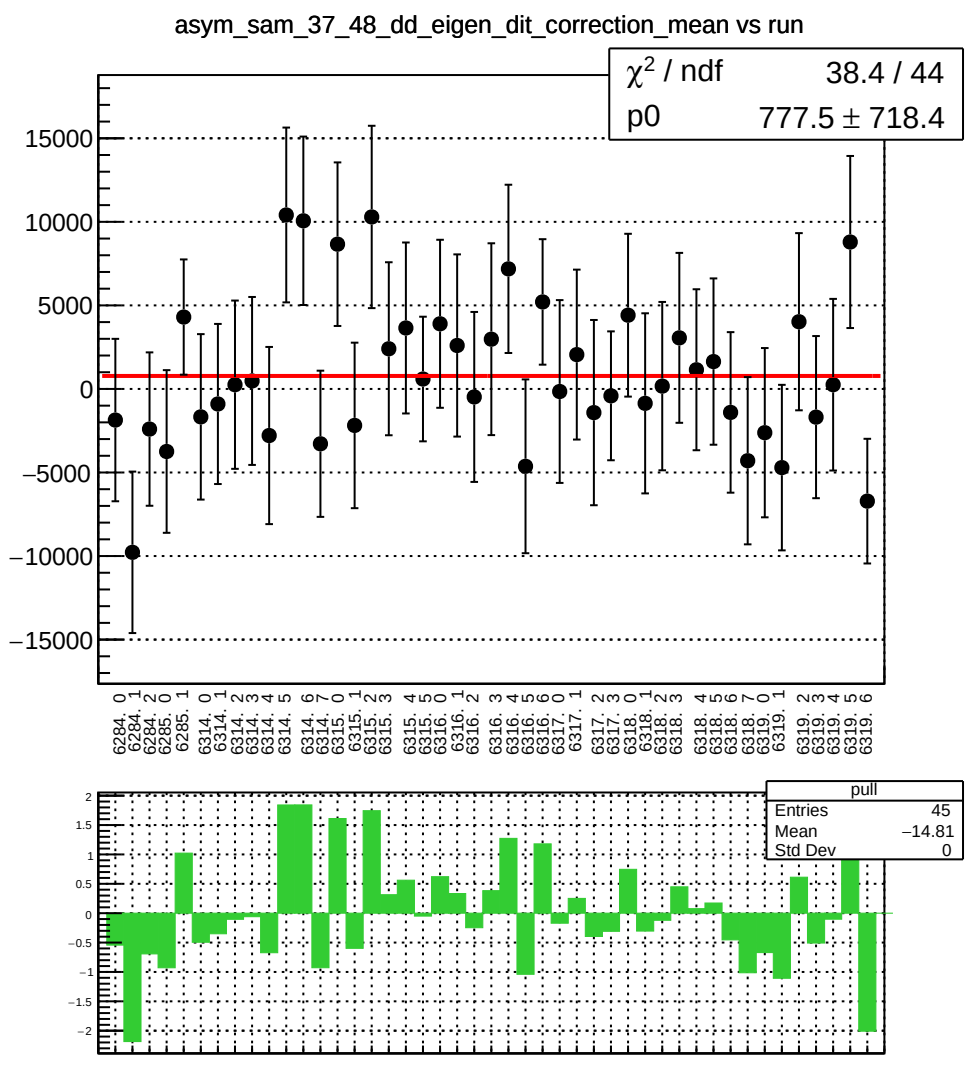
asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.4 / 44
p0 777.5 ± 718.4
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6318. 5
6318. 6
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6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
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6319. 6
pull
Entries 45
Mean −14.81
Std Dev 0
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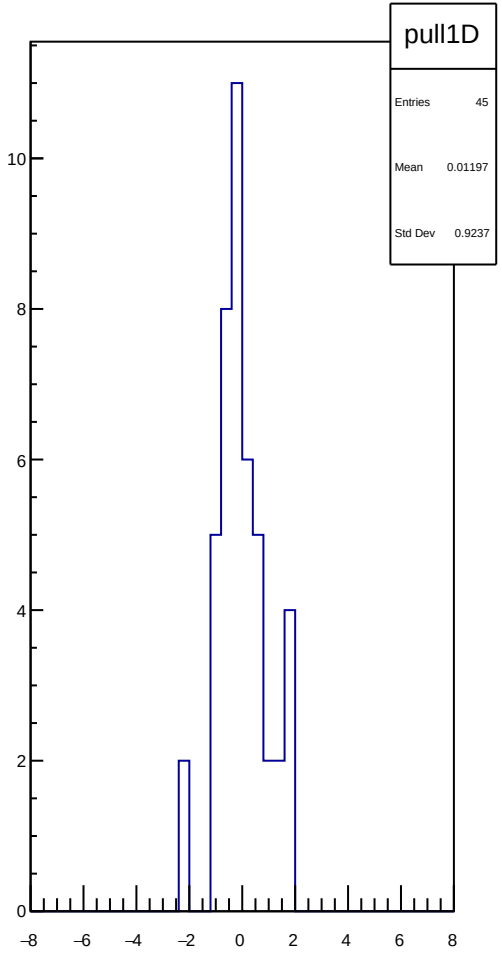
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01197
Std Dev 0.9237
10
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−4
−2
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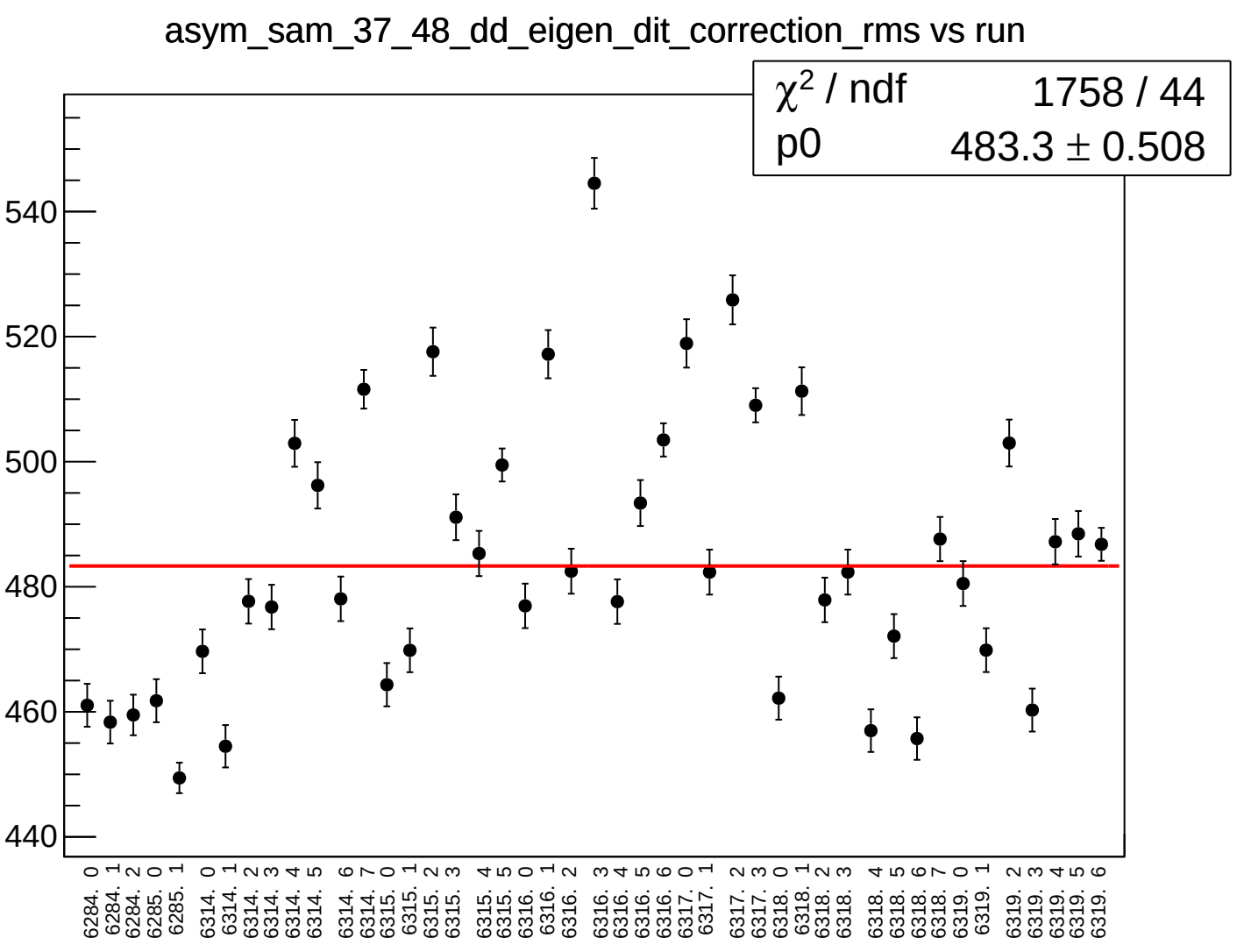
2
4
6
8


asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1758 / 44
p0 483.3 ± 0.508
540
520
500
480
460
440
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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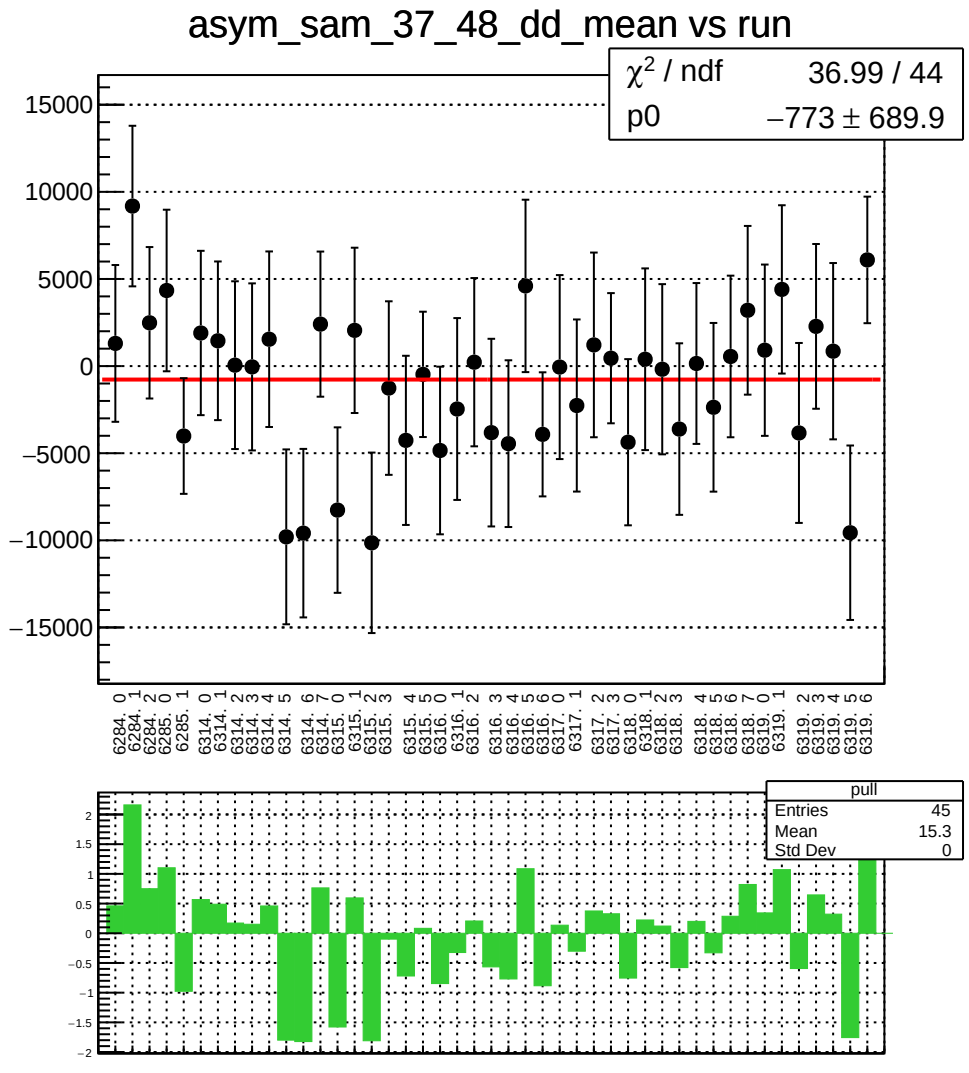
asym_sam_37_48_dd_mean vs run
χ² / ndf 36.99 / 44
p0 −773 ± 689.9
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
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6285. 1
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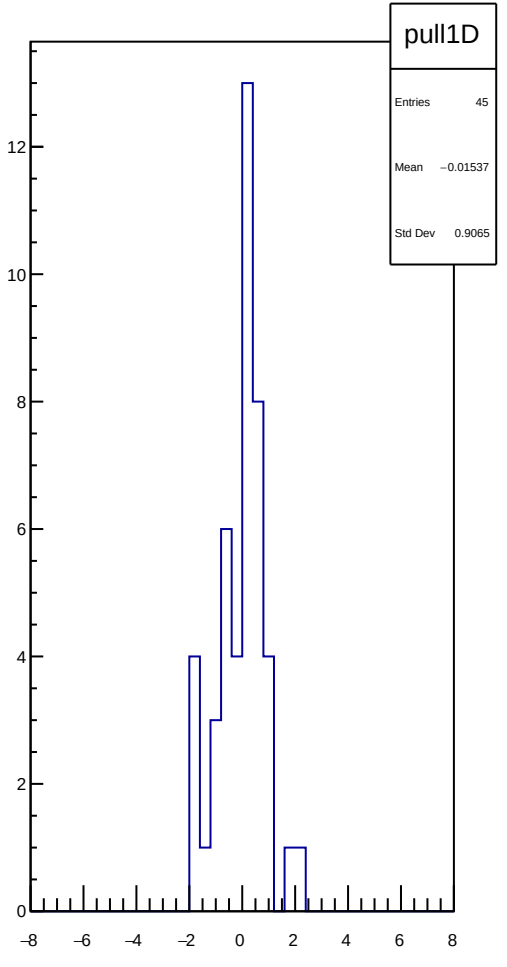
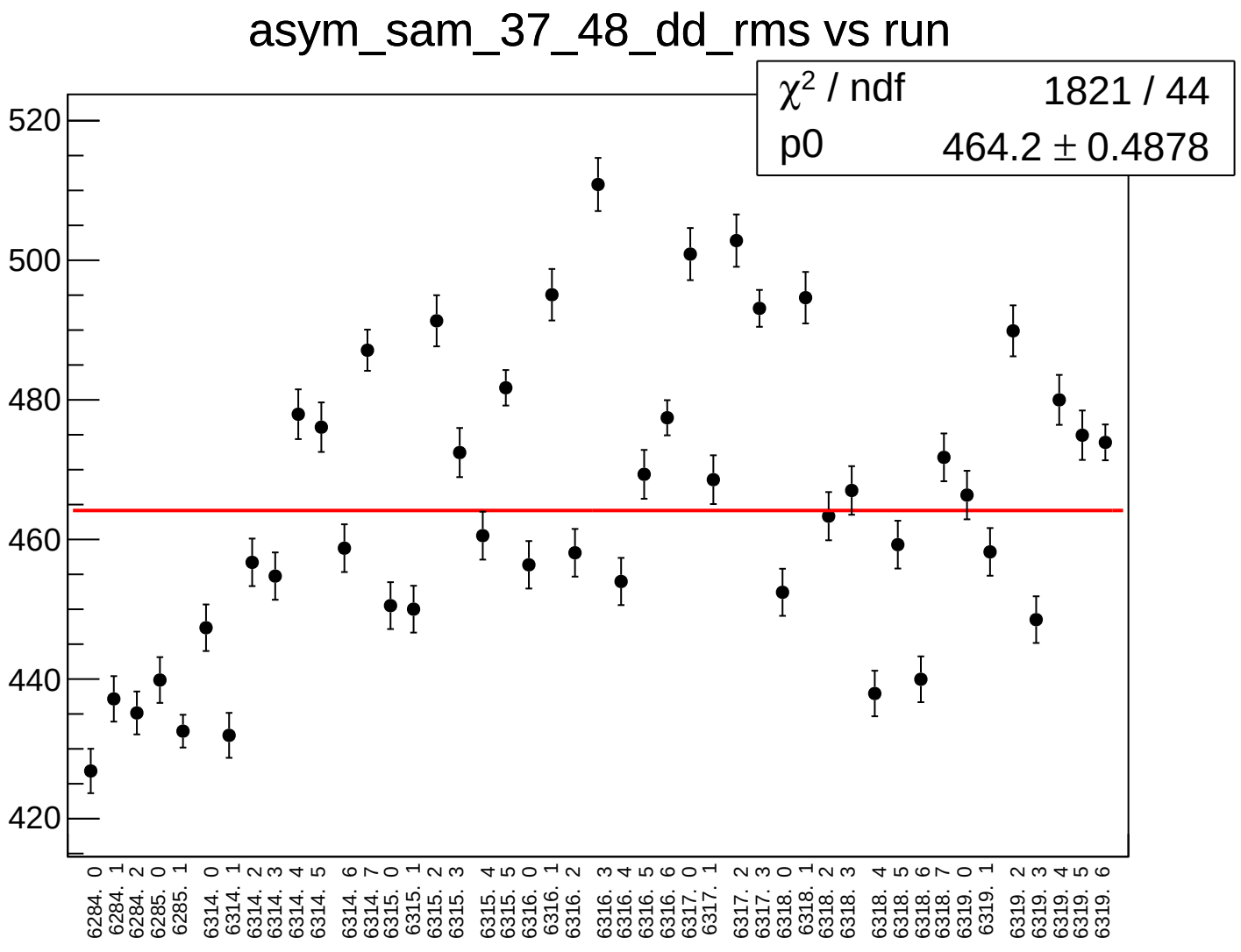
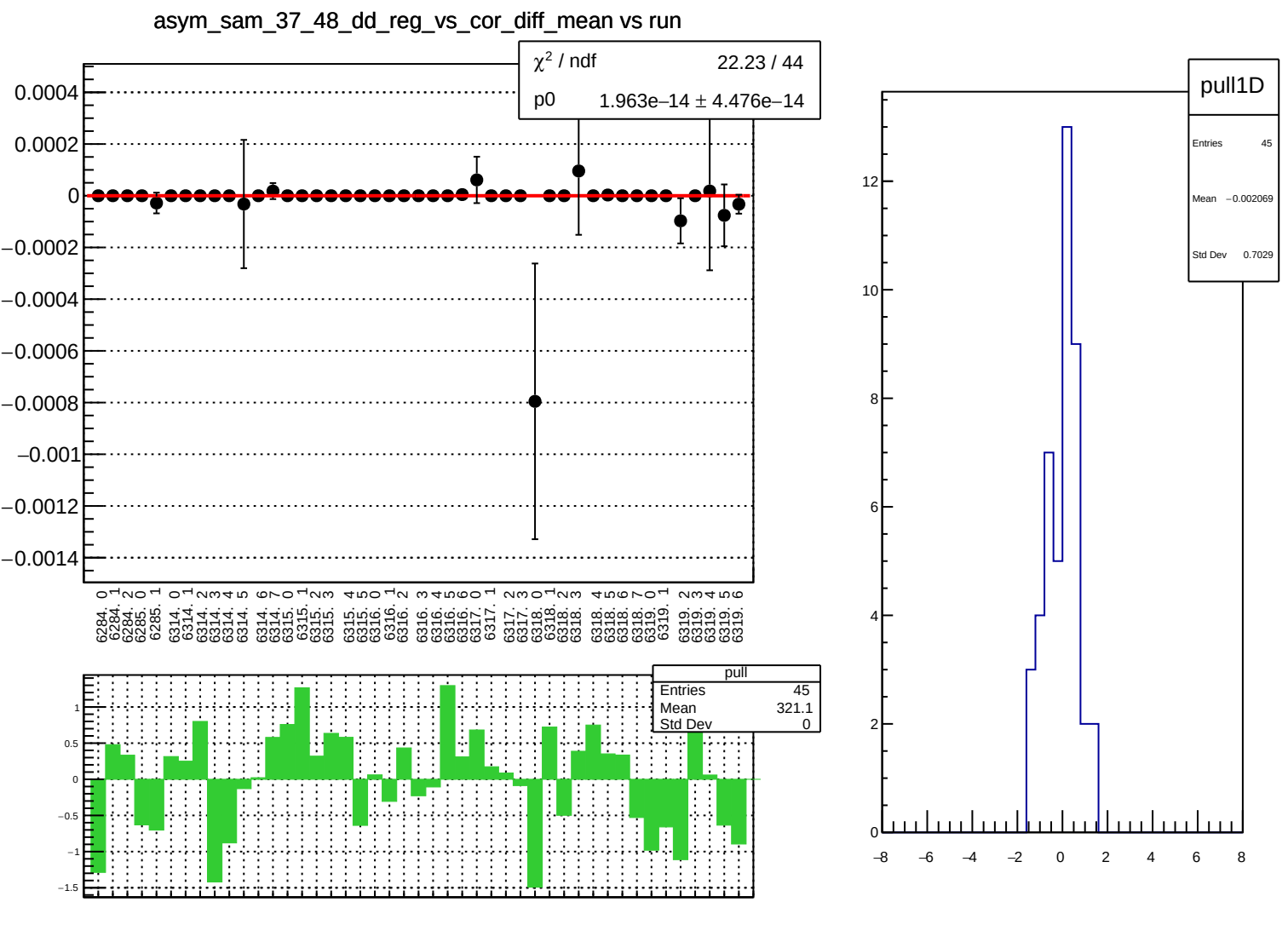
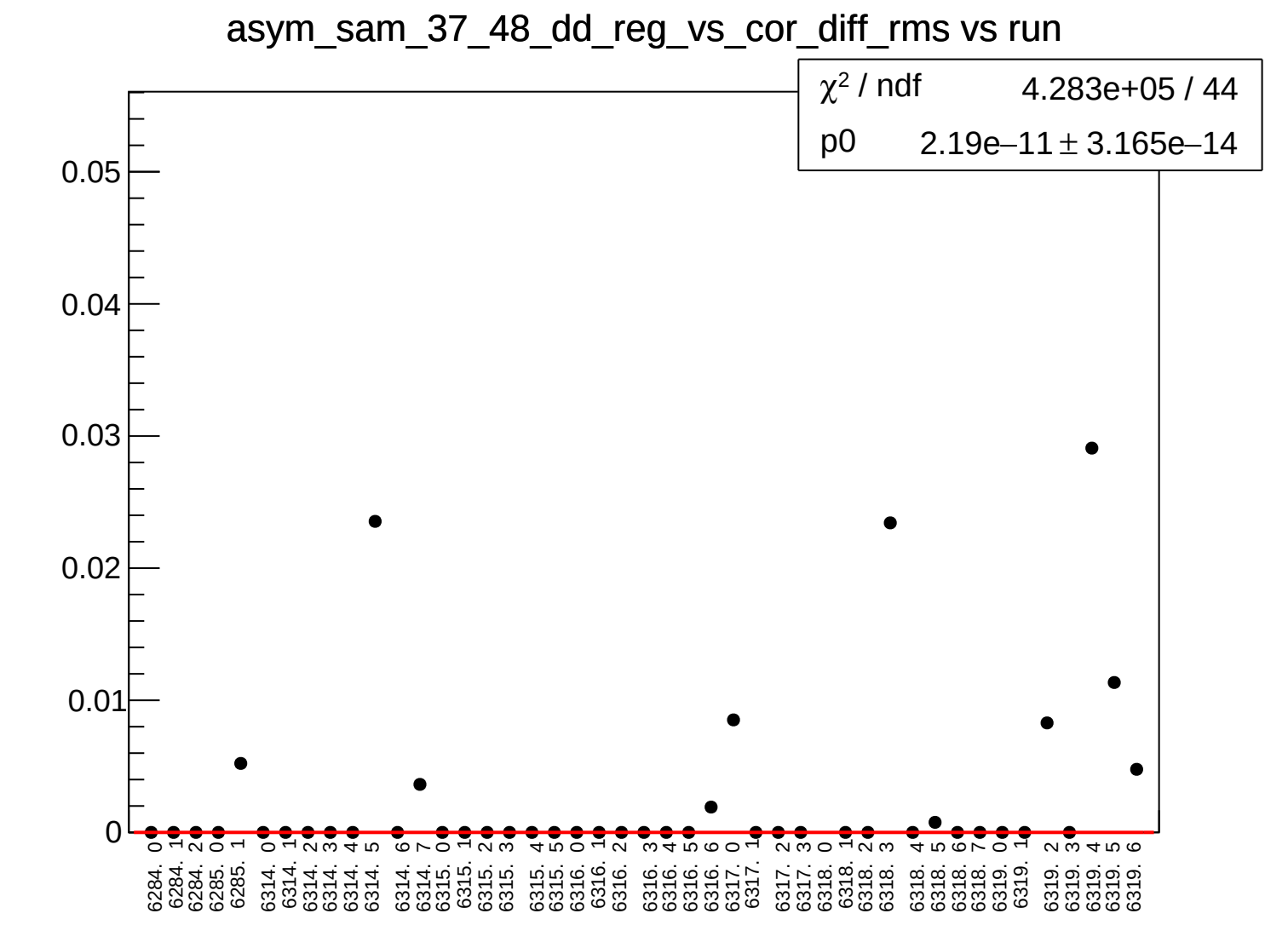
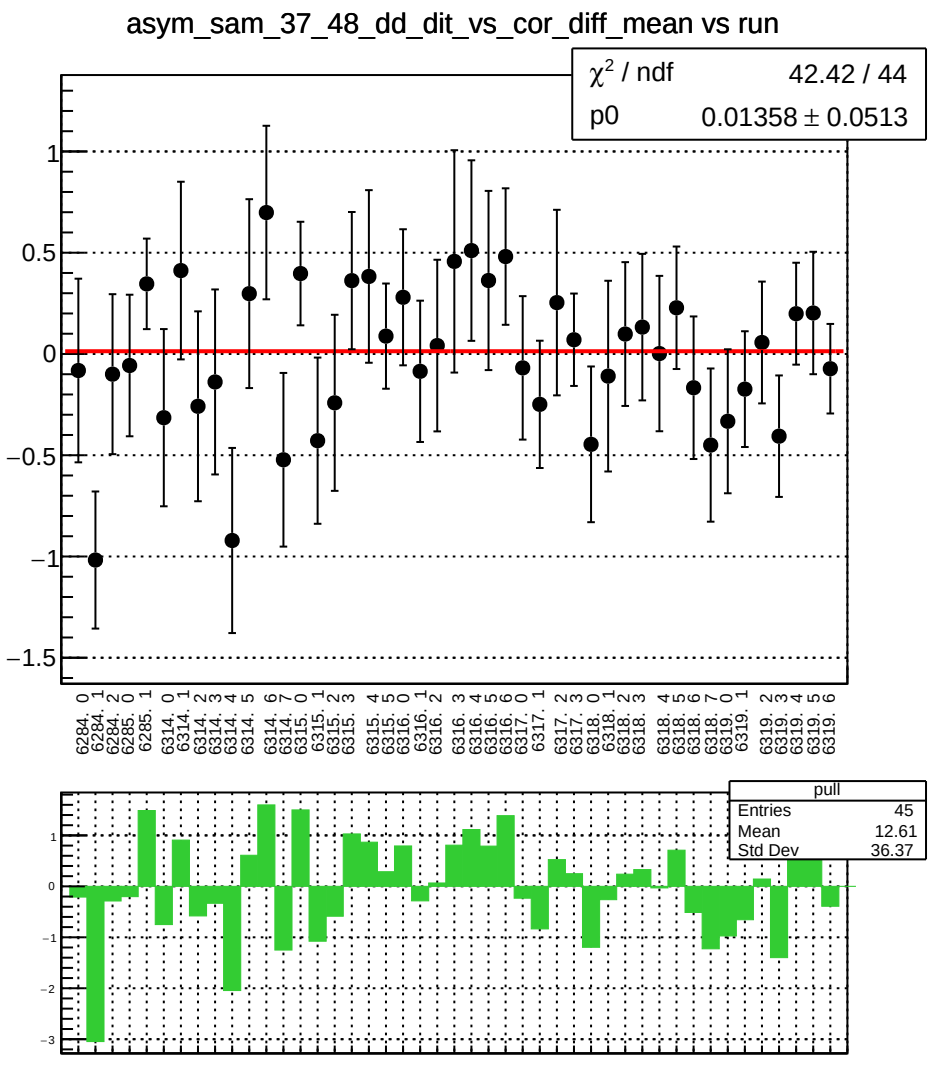
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 15.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

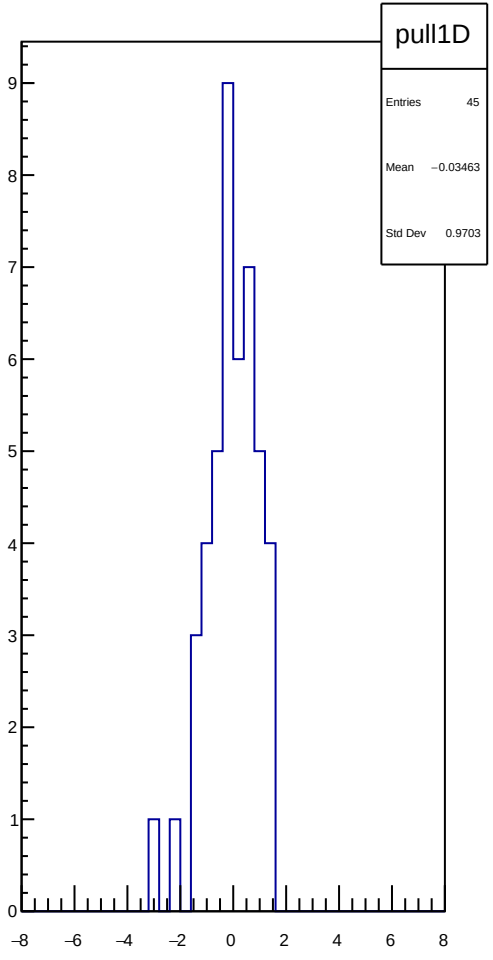

pull1D
Entries 45
Mean −0.01537
Std Dev 0.9065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

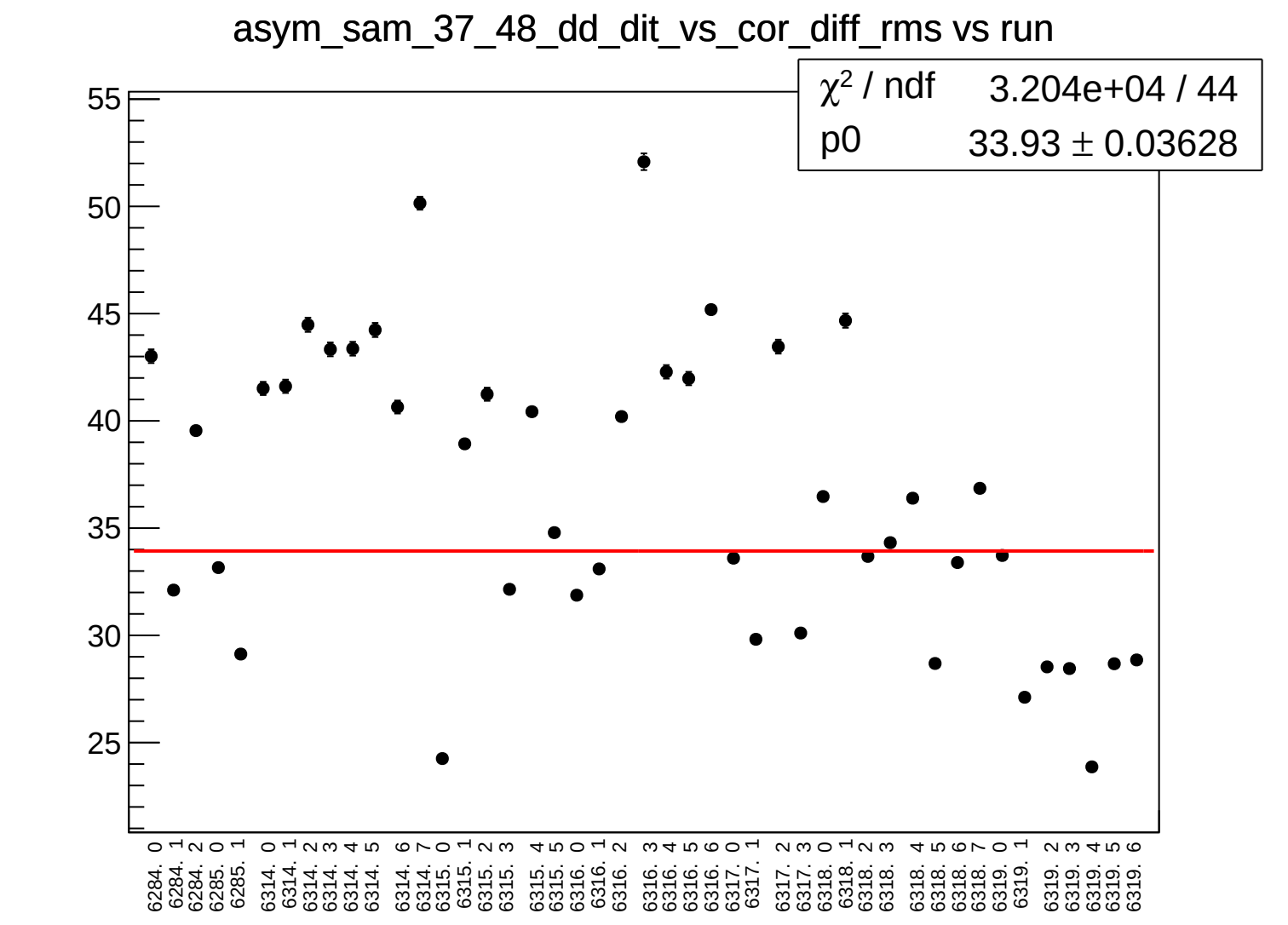

asym_sam_37_48_dd_rms vs run
χ² / ndf 1821 / 44
p0 464.2 ± 0.4878
520
500
480
460
440
420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

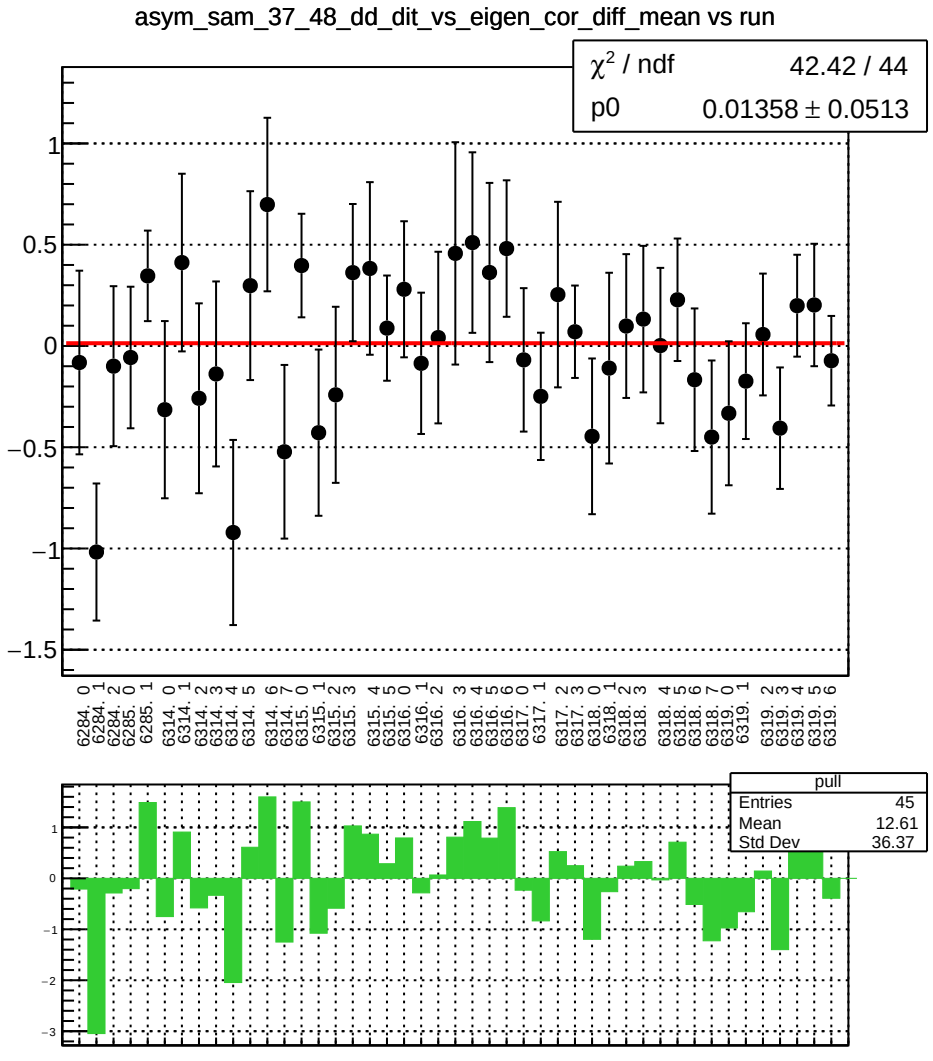

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.23 / 44
p0 1.963e−14 ± 4.476e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
6284. 0
6284. 1
6284. 2
6284. 3
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 321.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.002069
Std Dev 0.7029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

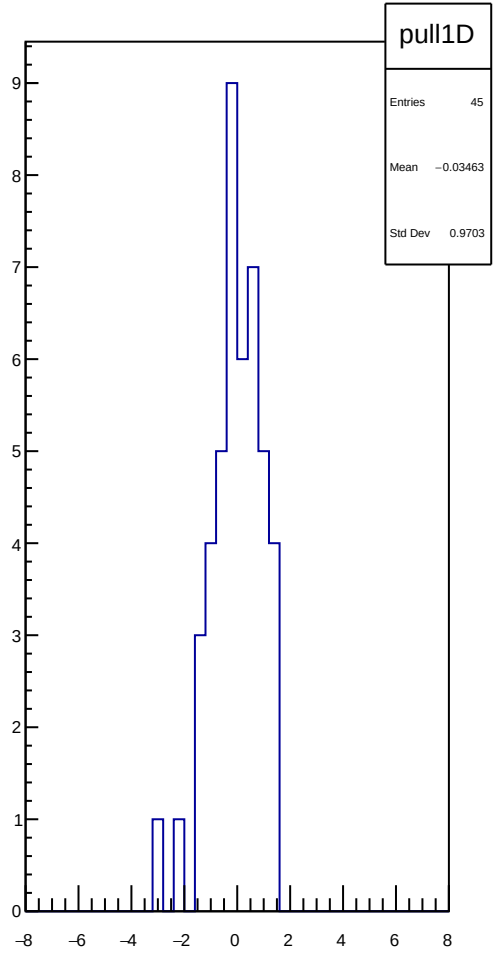

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.283e+05 / 44
p0 2.19e−11 ± 3.165e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

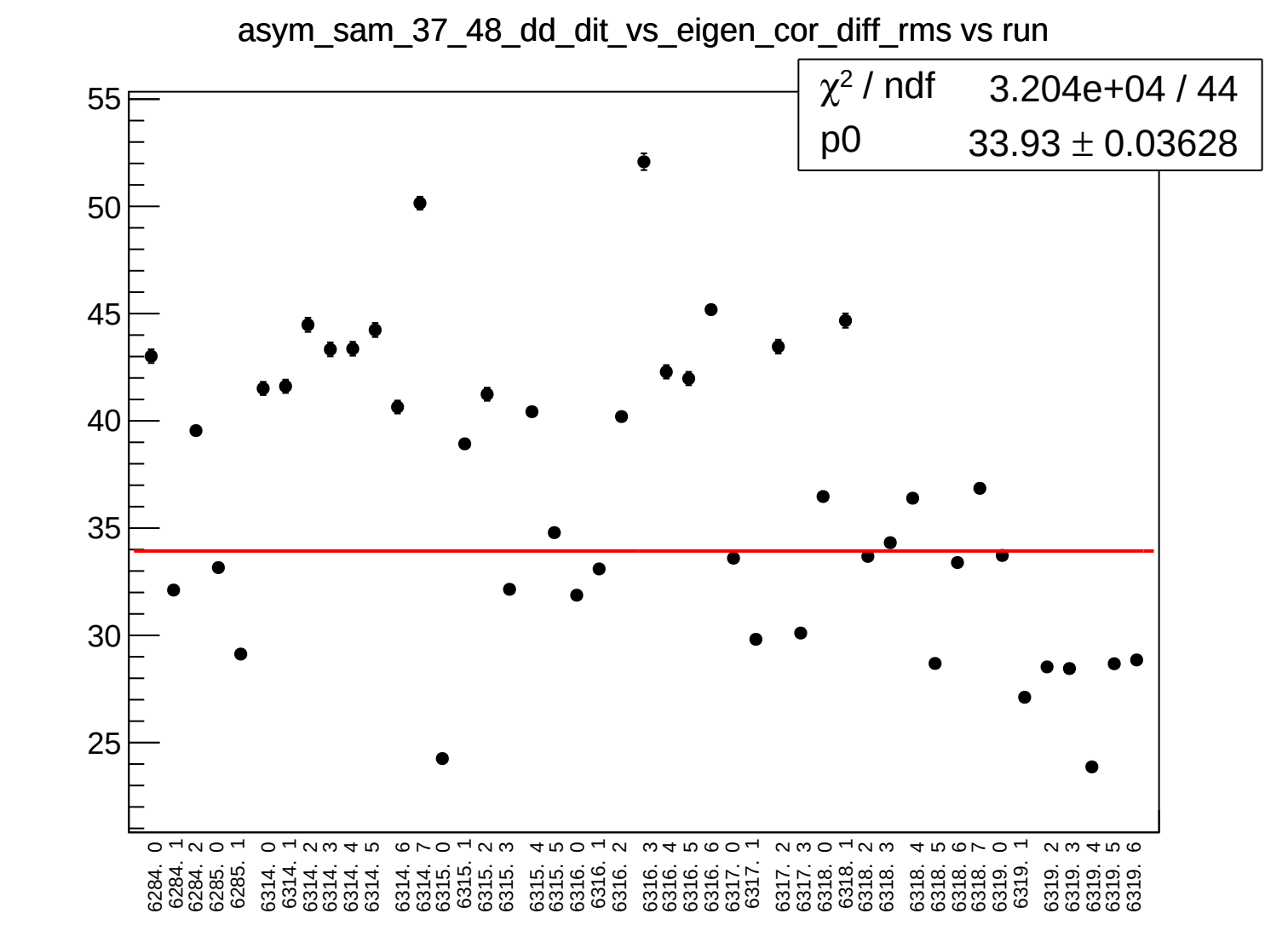

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.42 / 44
p0 0.01358 ± 0.0513
pull
Entries 45
Mean 12.61
Std Dev 36.37

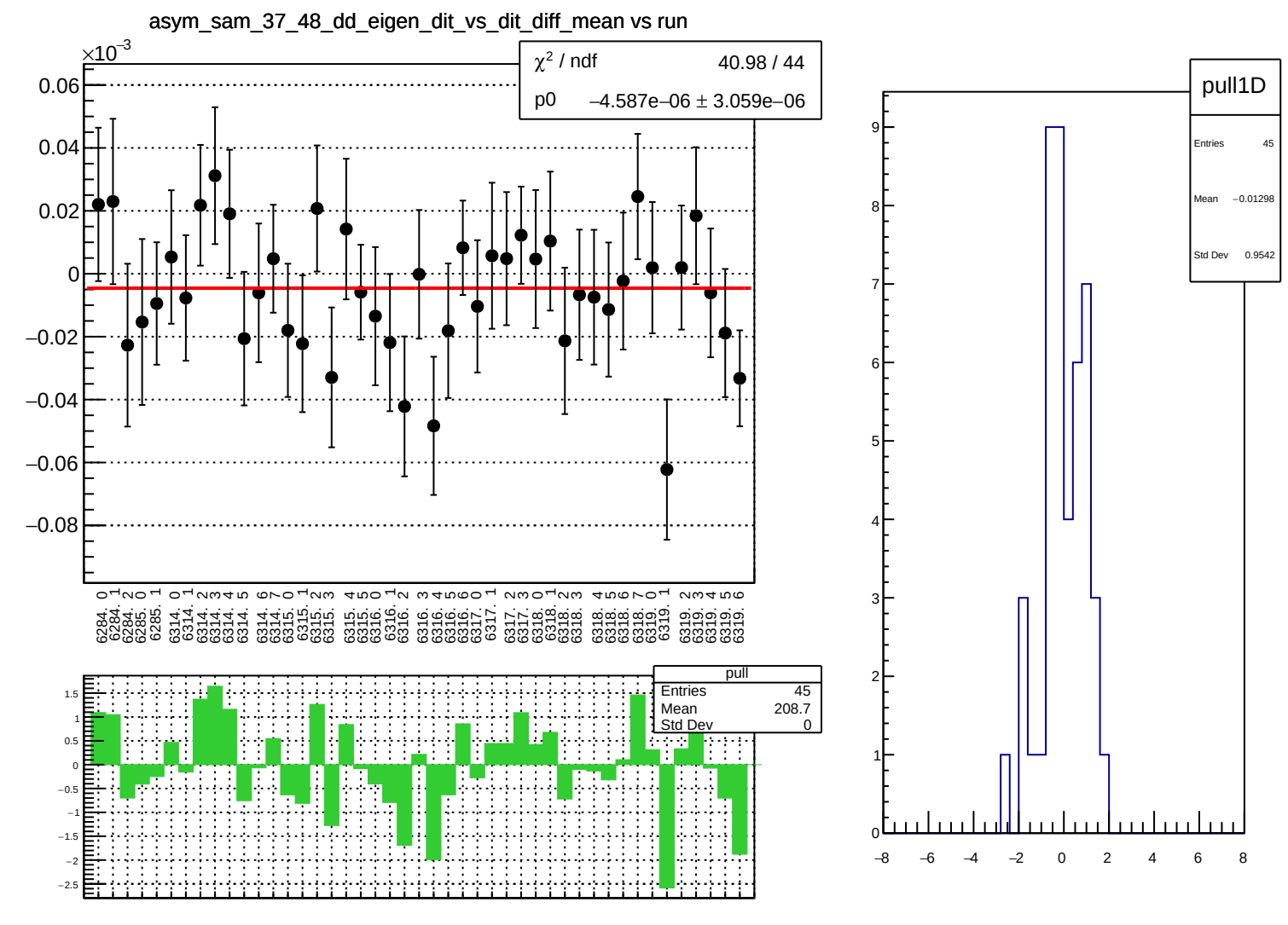

pull1D
Entries 45
Mean −0.03463
Std Dev 0.9703

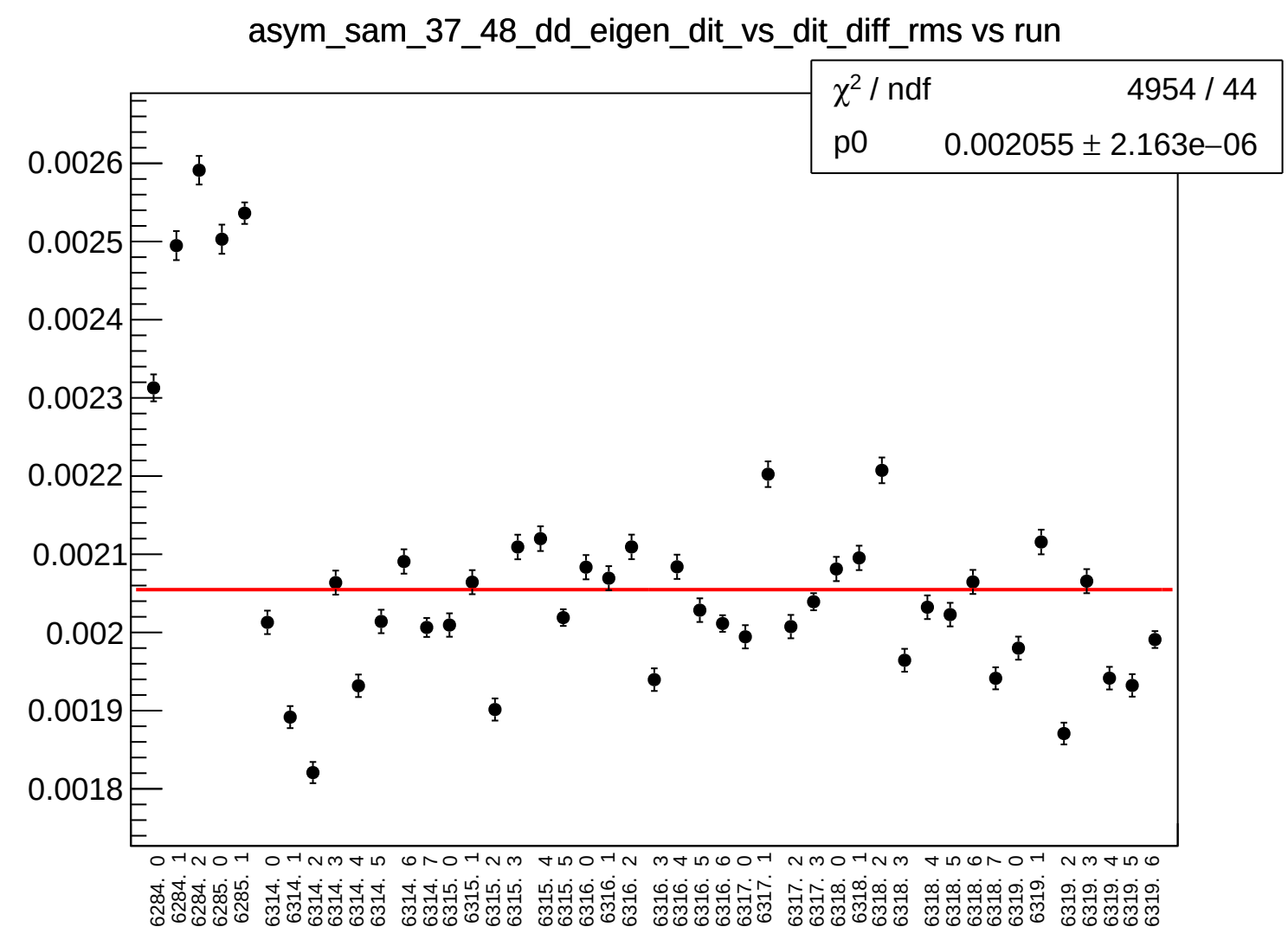

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.204e+04 / 44
p0 33.93 ± 0.03628
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

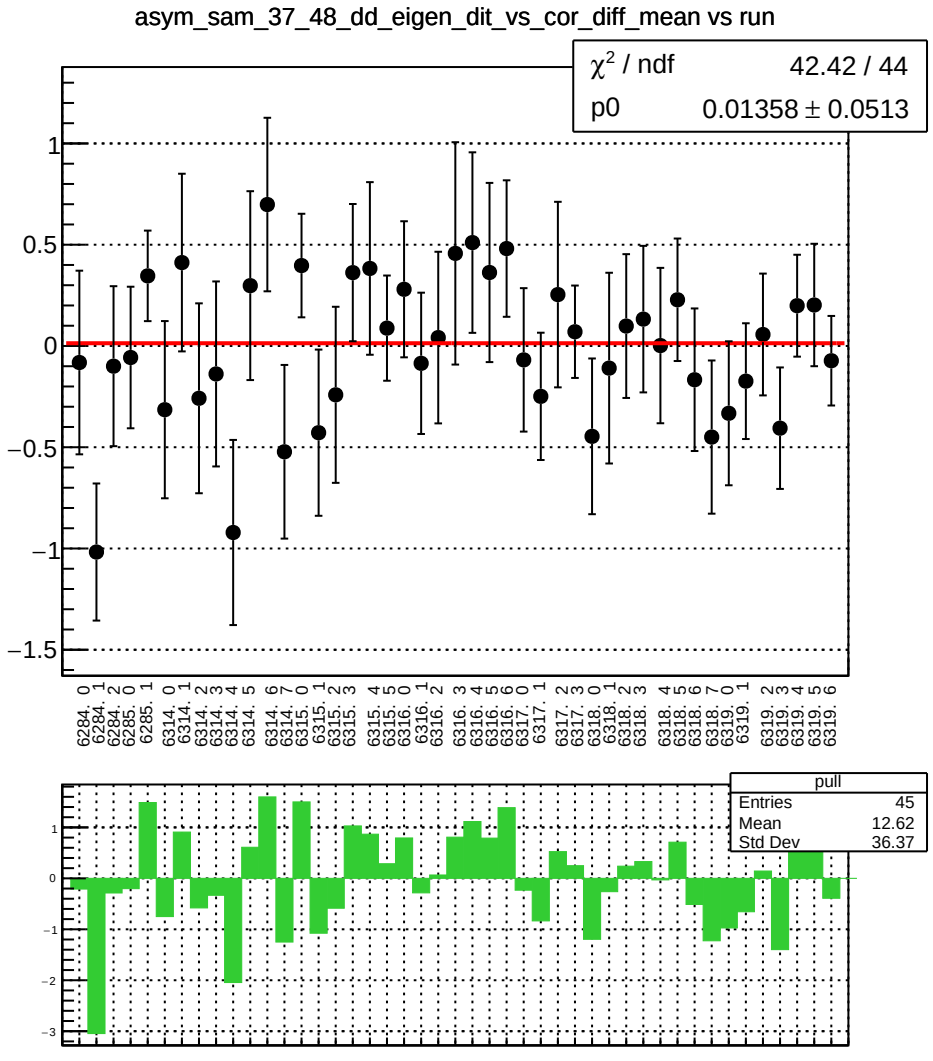

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.42 / 44
p0 0.01358 ± 0.0513
pull
Entries 45
Mean 12.61
Std Dev 36.37

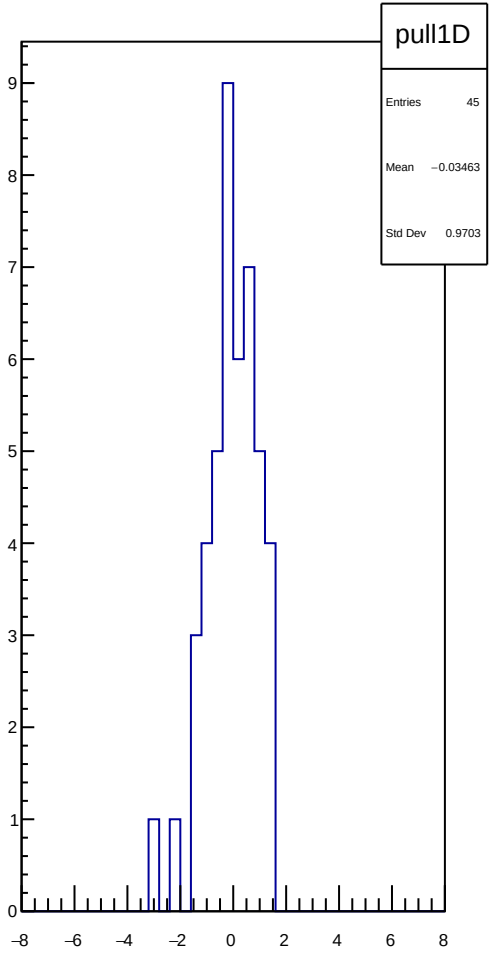

pull1D
Entries 45
Mean −0.03463
Std Dev 0.9703

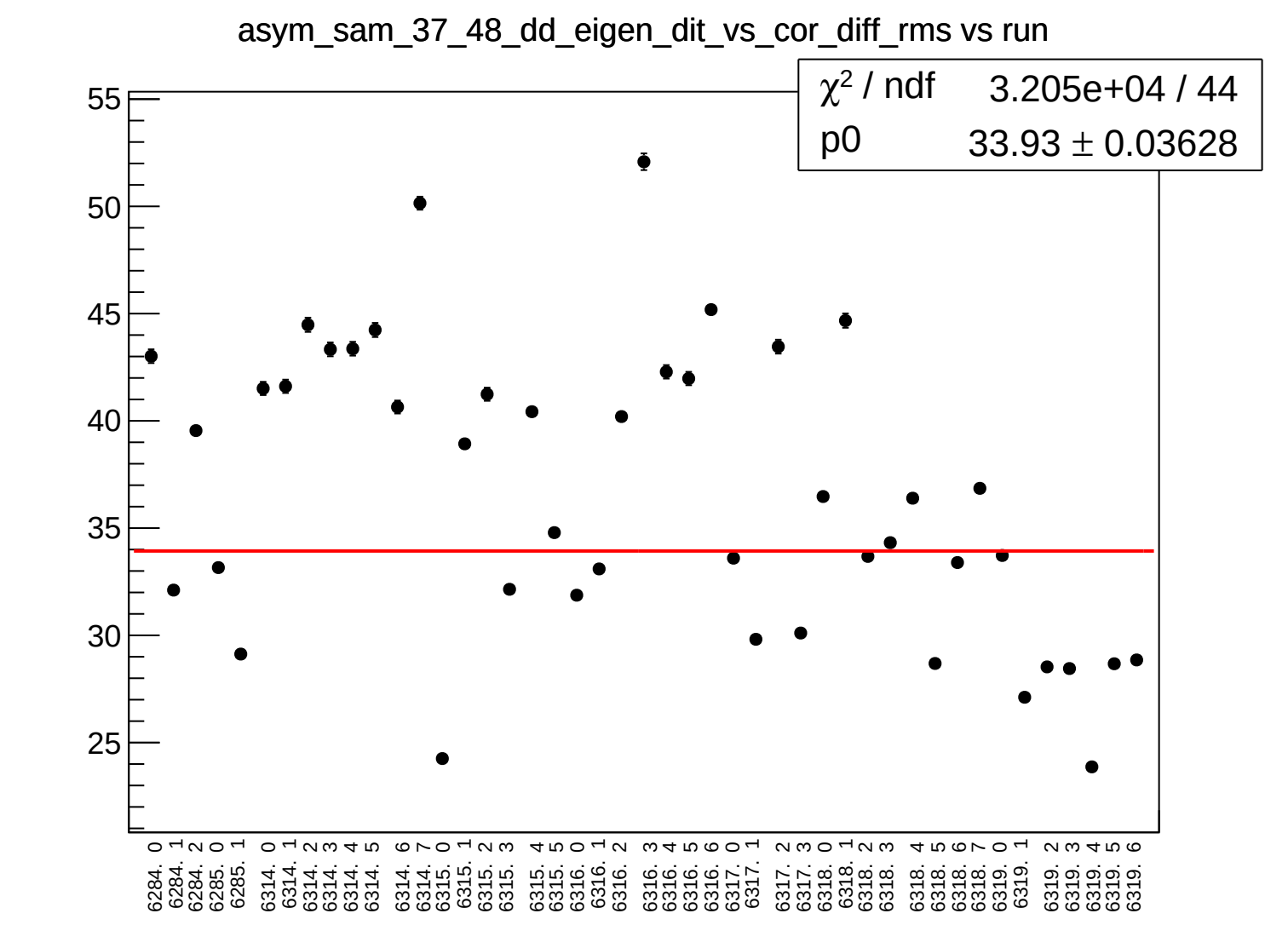

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.204e+04 / 44
p0 33.93 ± 0.03628
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

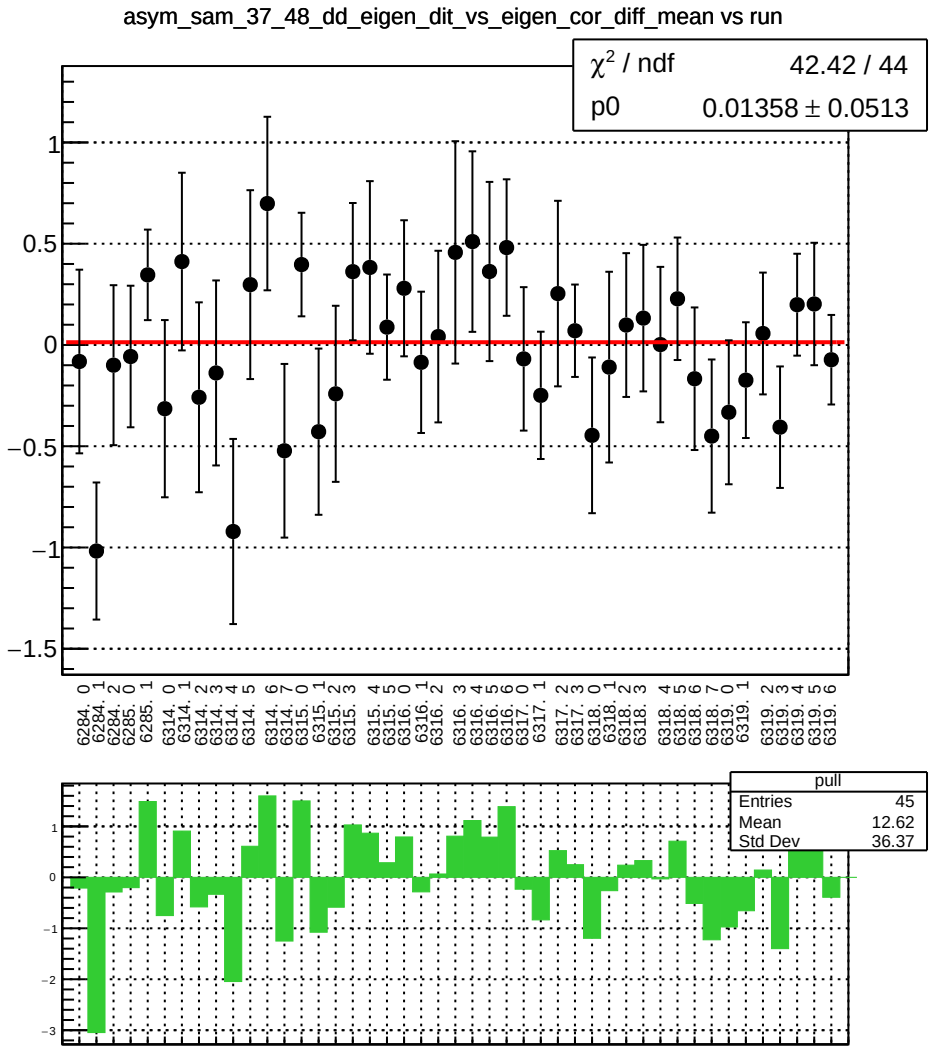

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.98 / 44
p0 −4.587e−06 ± 3.059e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6284. 6
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 208.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01298
Std Dev 0.9542
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

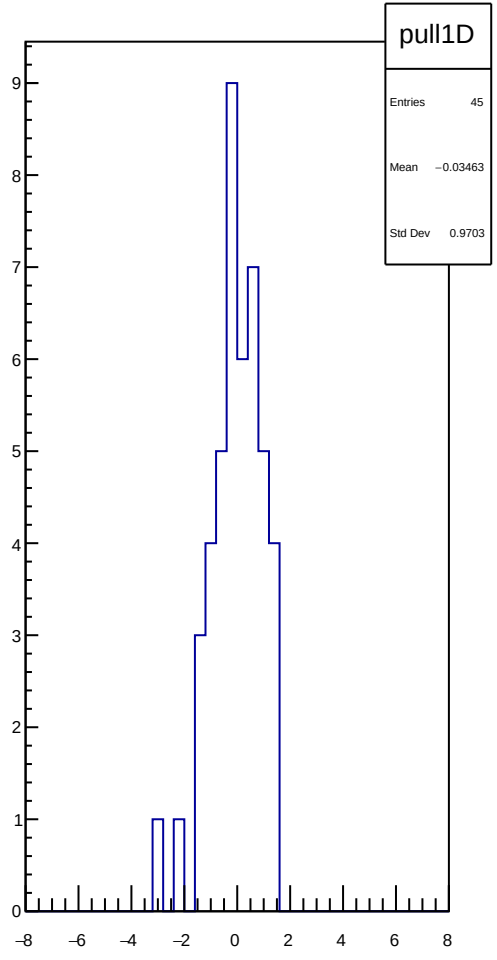

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4954 / 44
p0 0.002055 ± 2.163e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

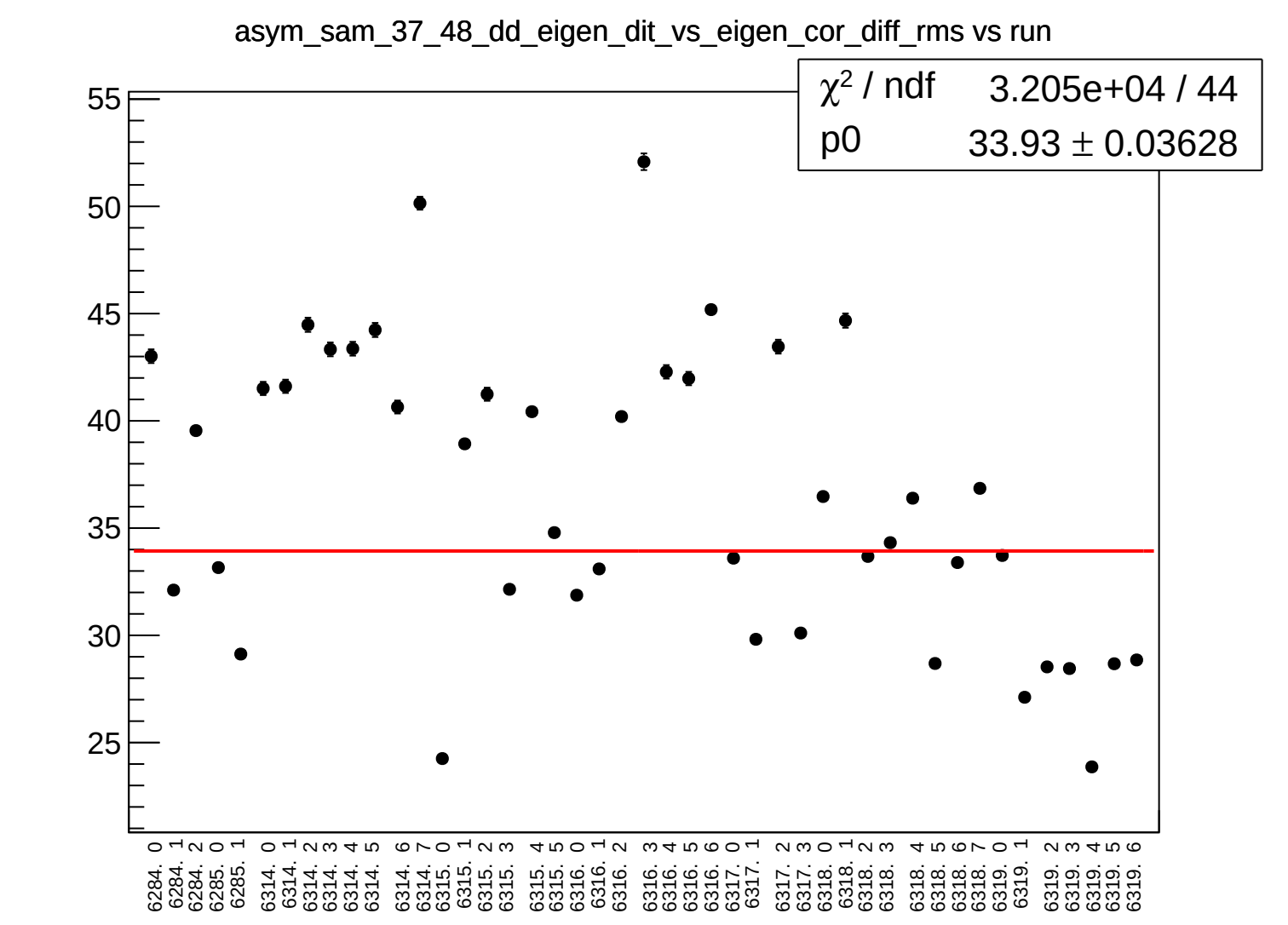

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.42 / 44
p0 0.01358 ± 0.0513
pull
Entries 45
Mean 12.62
Std Dev 36.37

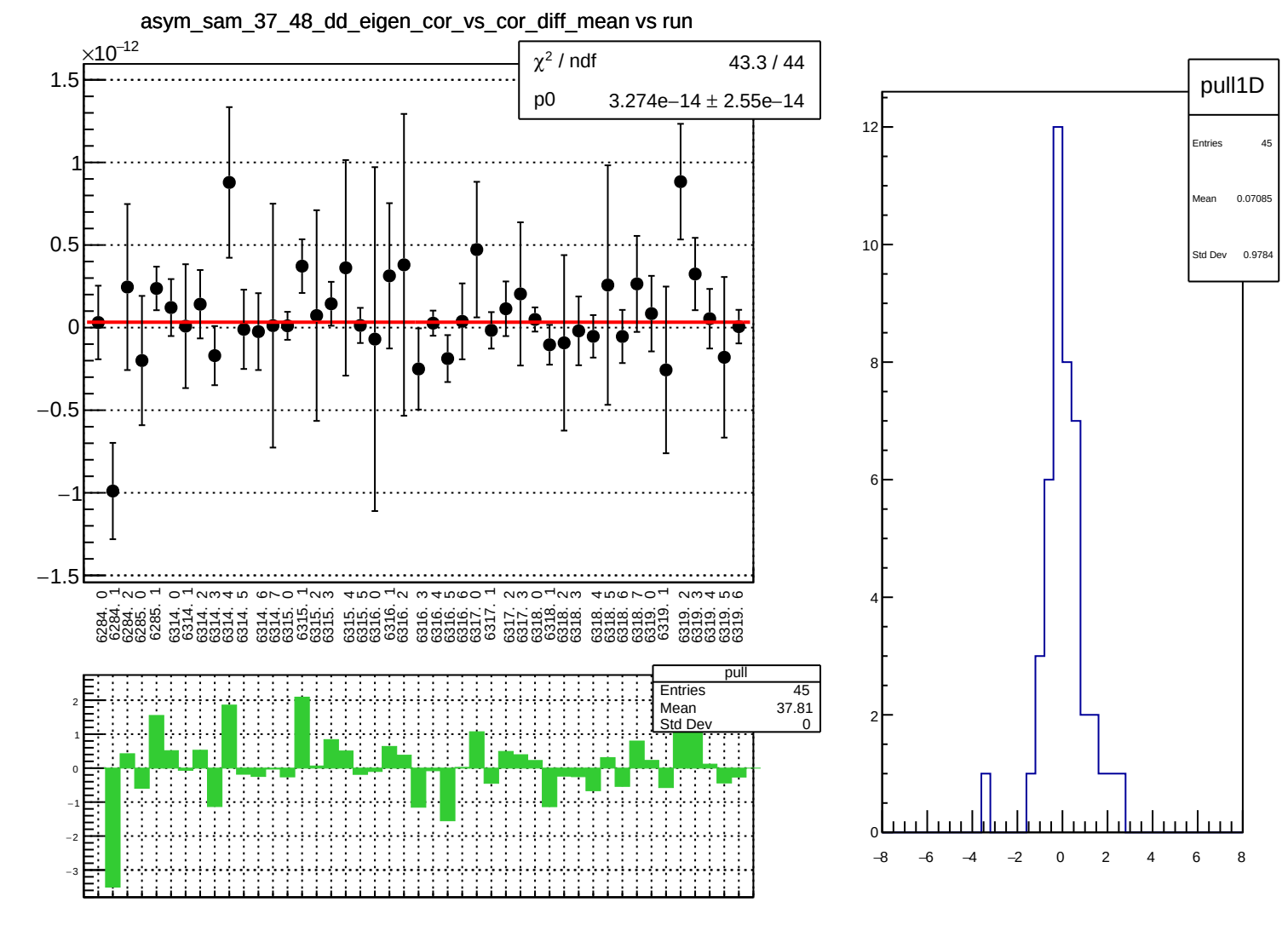

pull1D
Entries 45
Mean −0.03463
Std Dev 0.9703

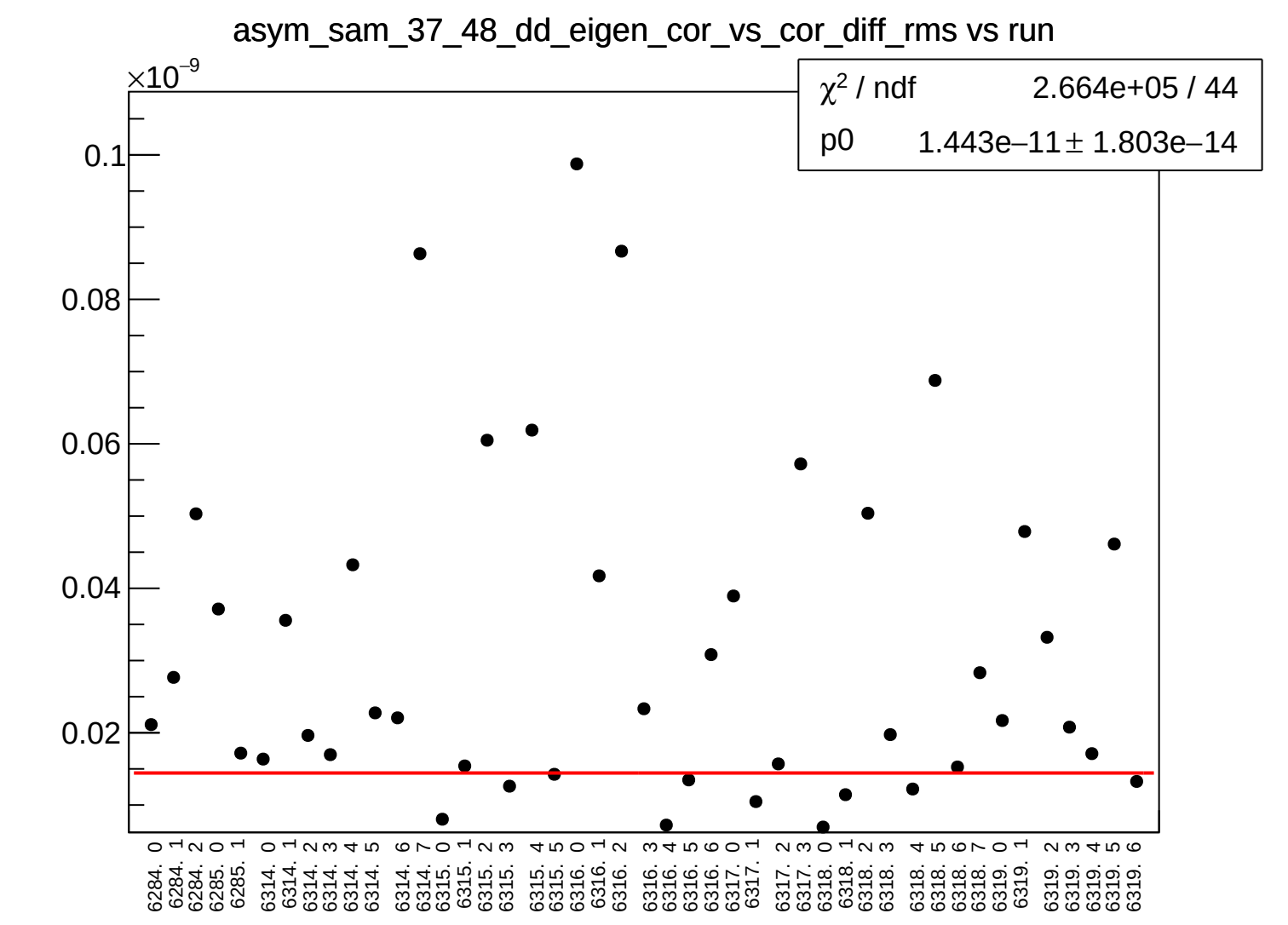

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 44
p0 33.93 ± 0.03628
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

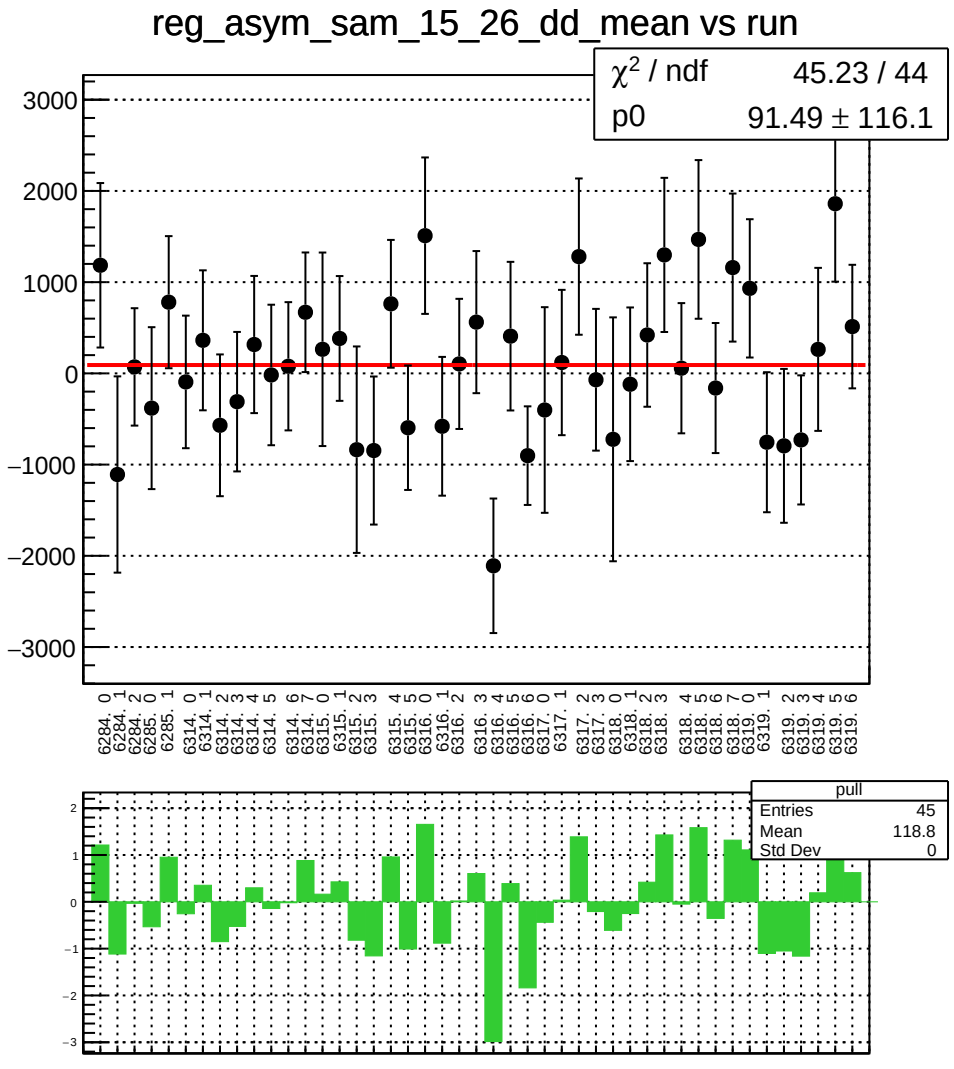

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.42 / 44
p0 0.01358 ± 0.0513
pull
Entries 45
Mean 12.62
Std Dev 36.37

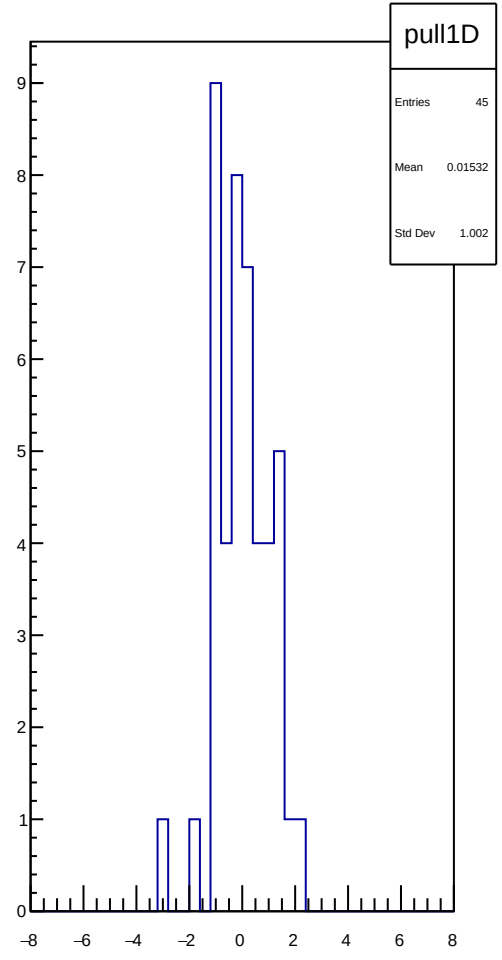

pull1D
Entries 45
Mean −0.03463
Std Dev 0.9703


asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 44
p0 33.93 ± 0.03628
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.3 / 44
p0 3.274e−14 ± 2.55e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 37.81
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.07085
Std Dev 0.9784
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.664e+05 / 44
p0 1.443e−11 ± 1.803e−14
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 45.23 / 44
p0 91.49 ± 116.1
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 118.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01532
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
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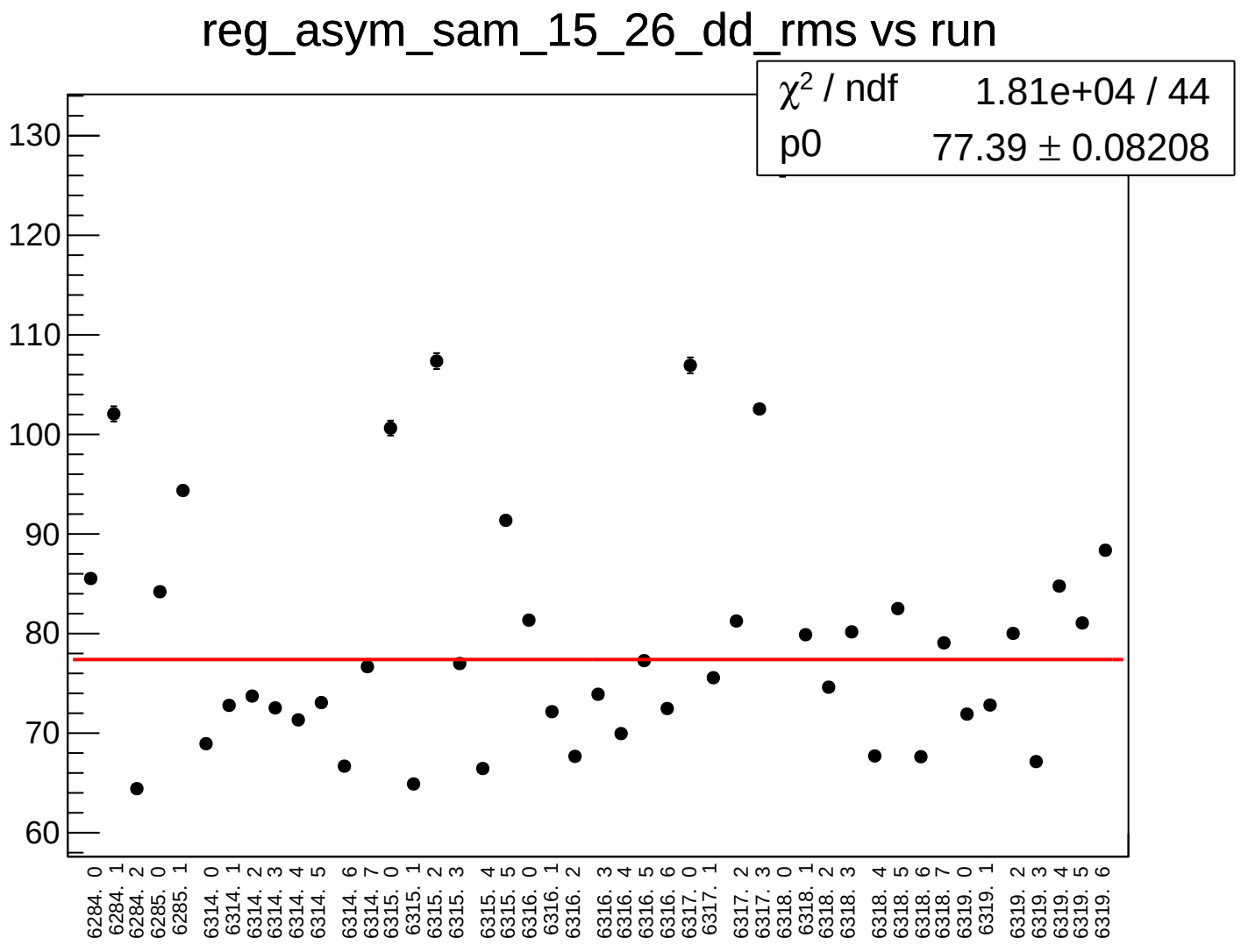
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.81e+04 / 44
p0 77.39 ± 0.08208
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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6319. 2
6319. 3
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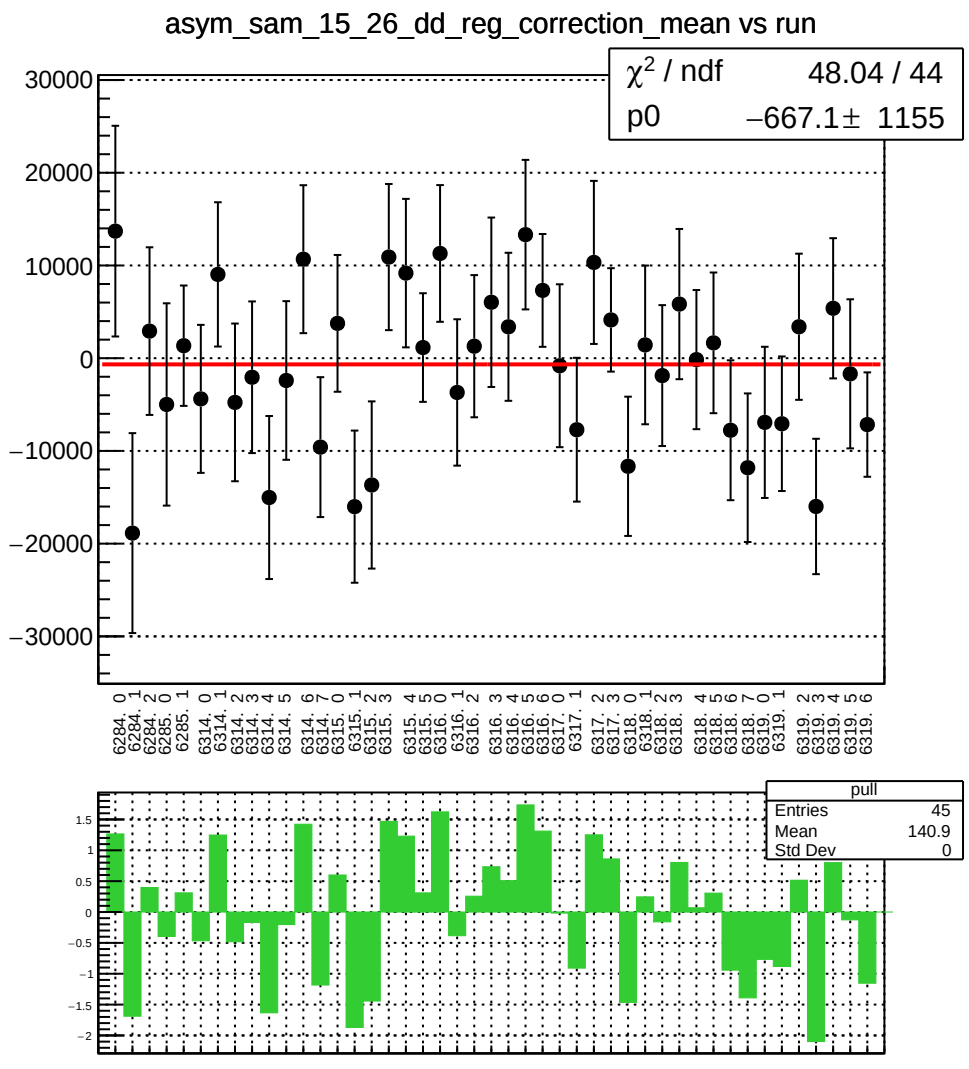
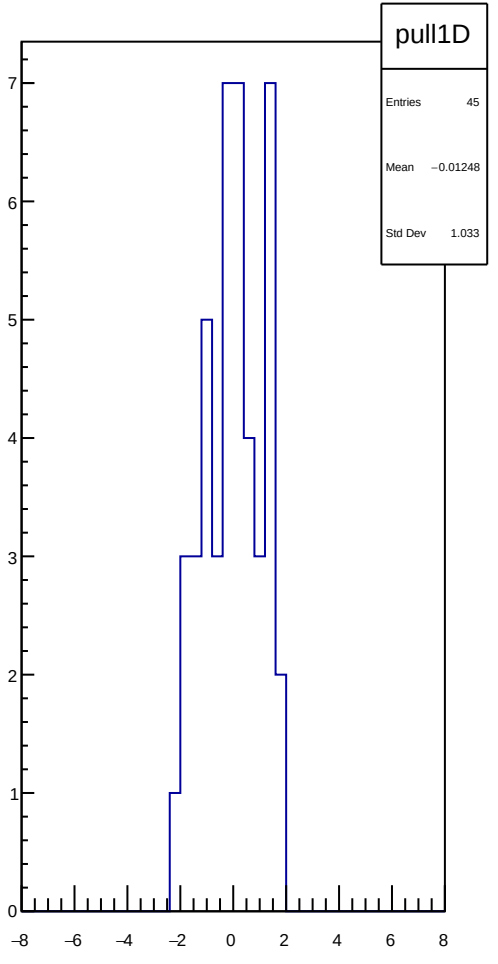
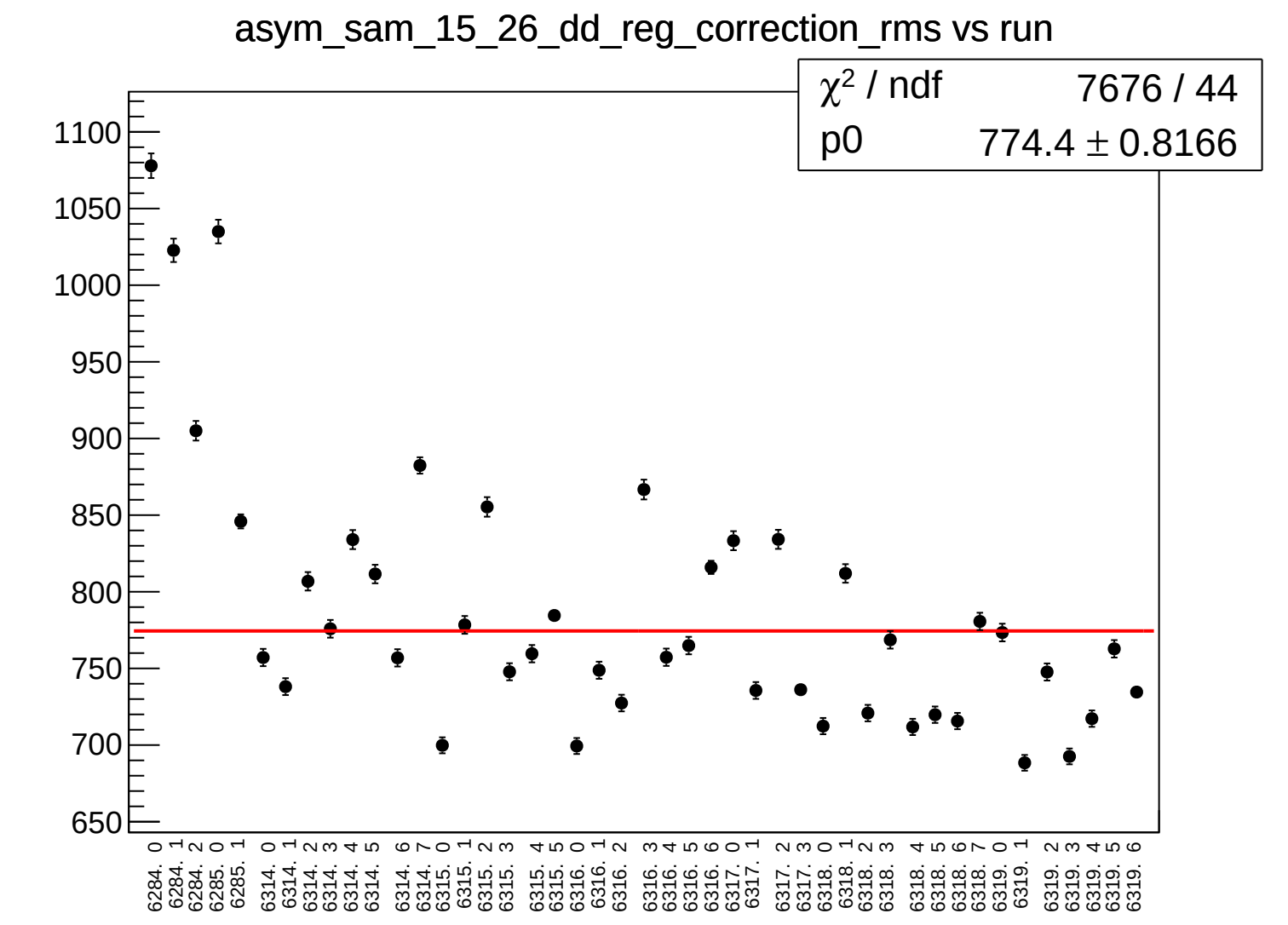
6319. 5
6319. 6


asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 48.04 / 44
p0 −667.1± 1155
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01248
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 7676 / 44
p0 774.4 ± 0.8166
1100
1050
1000
950
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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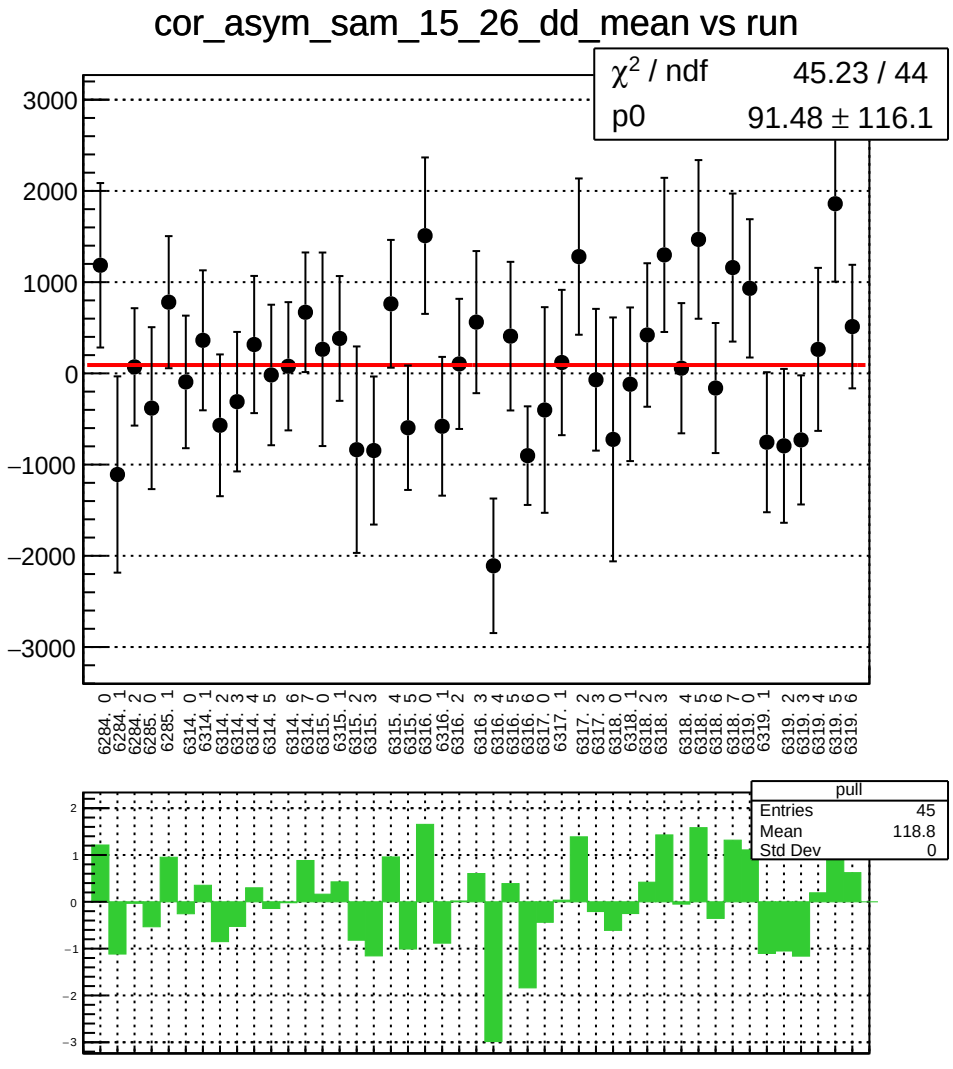
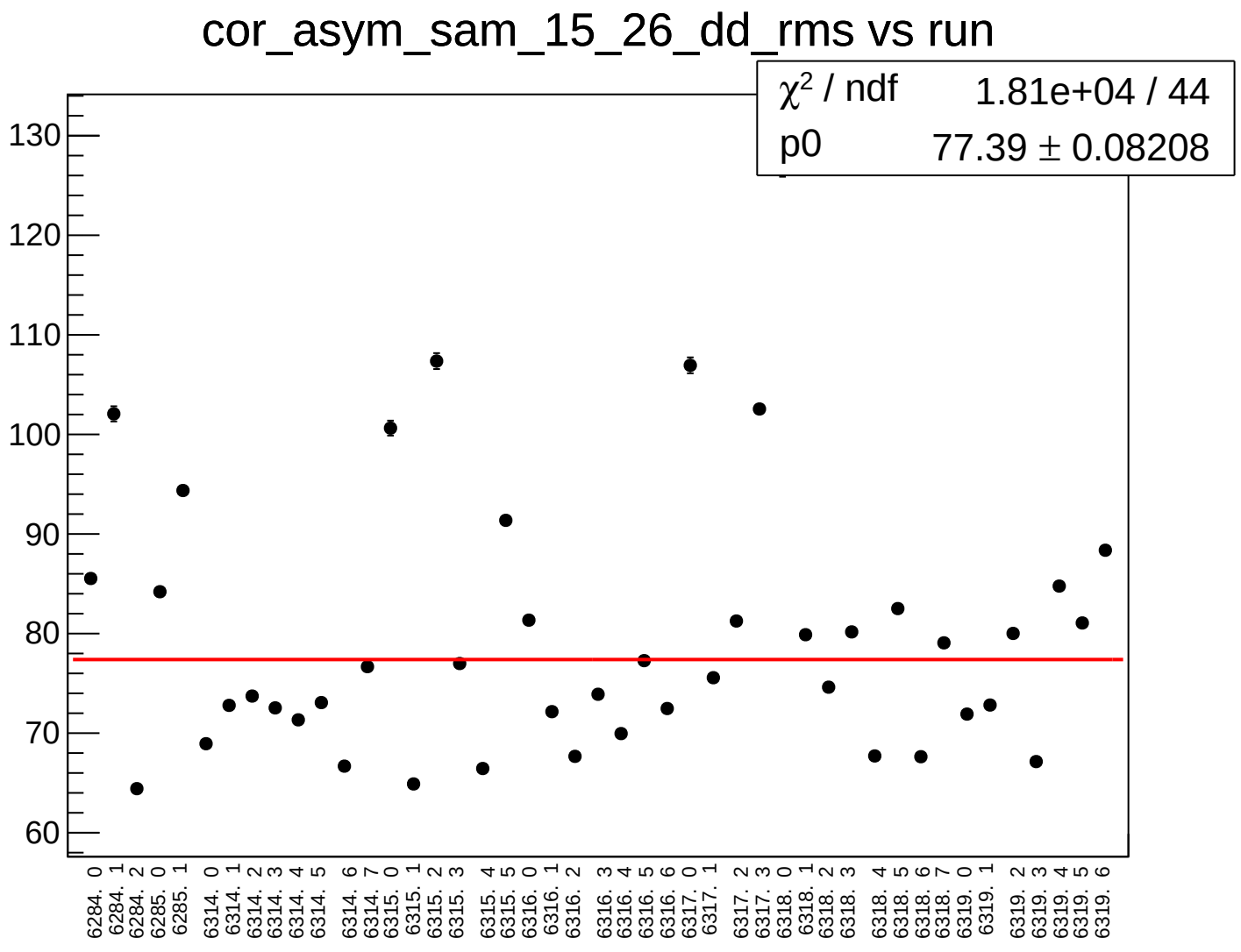
6319. 5
6319. 6


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 45.23 / 44
p0 91.48 ± 116.1
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 118.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01531
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.81e+04 / 44
p0 77.39 ± 0.08208
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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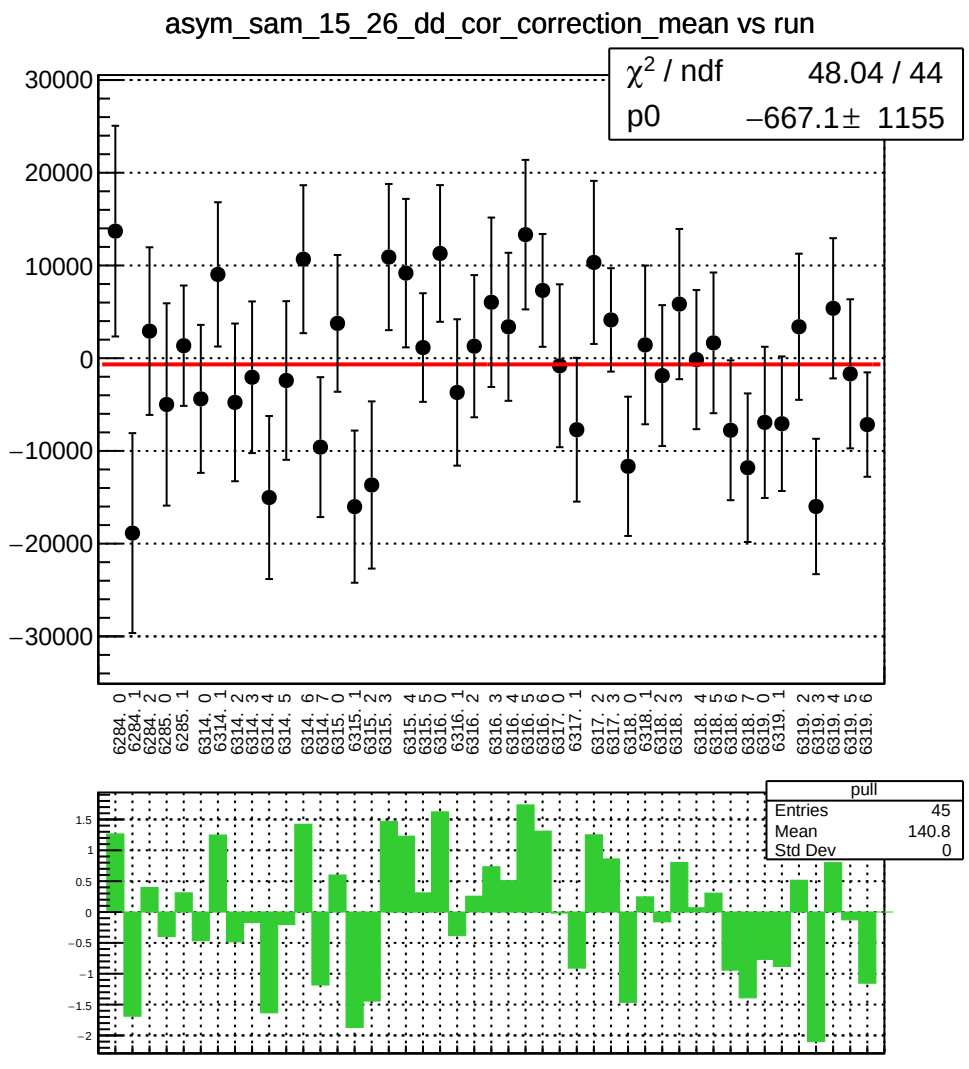
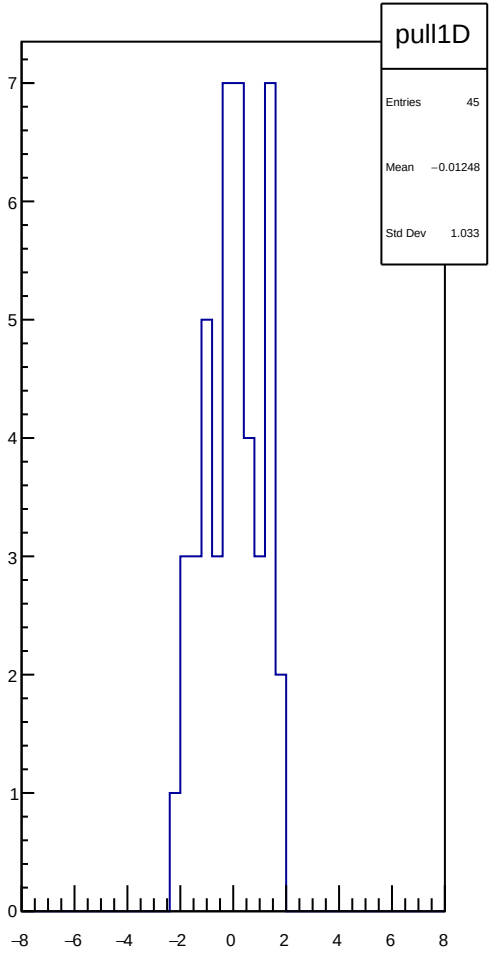
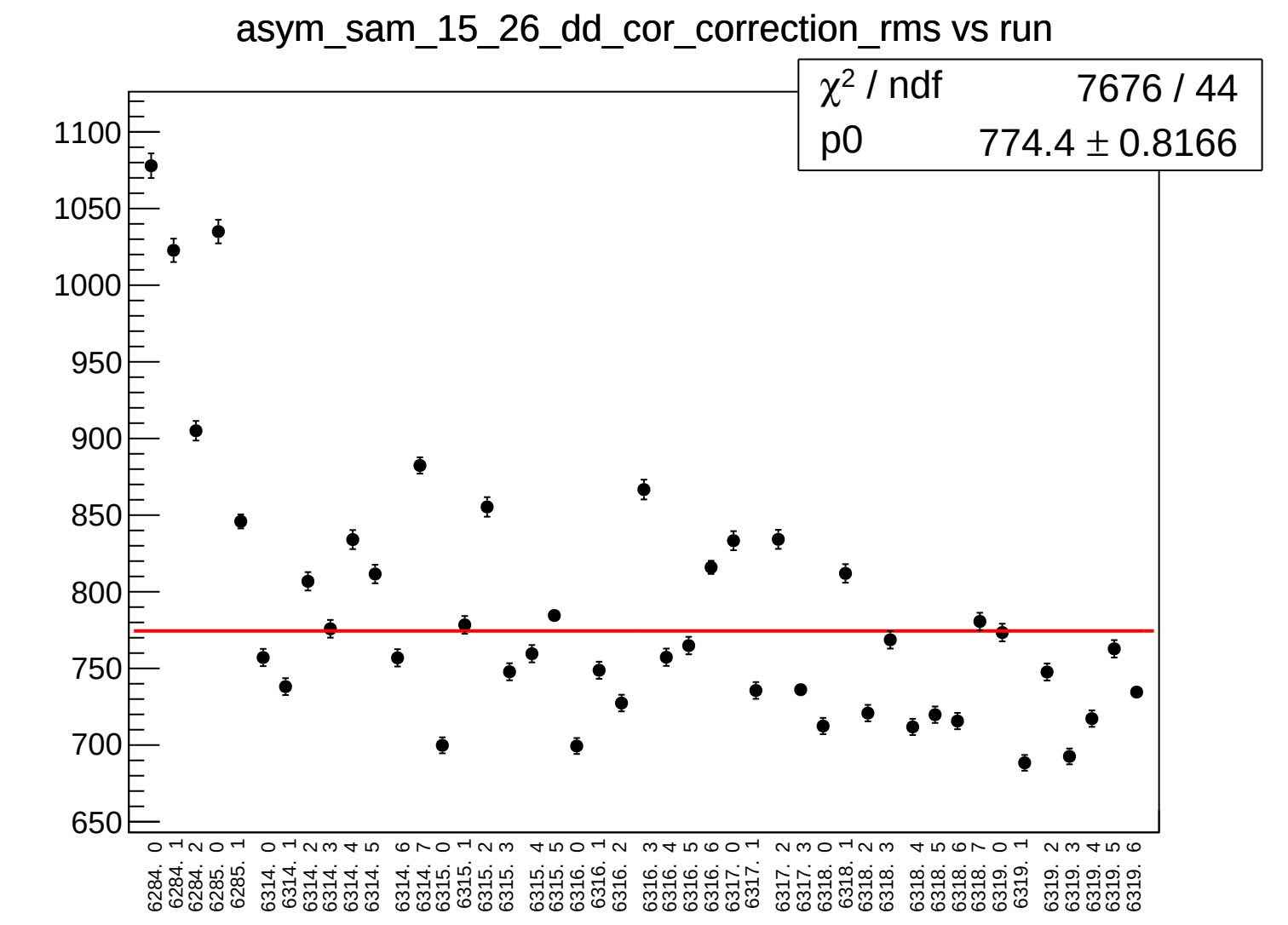
6319. 5
6319. 6


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 48.04 / 44
p0 −667.1± 1155
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01248
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 7676 / 44
p0 774.4 ± 0.8166
1100
1050
1000
950
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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6319. 2
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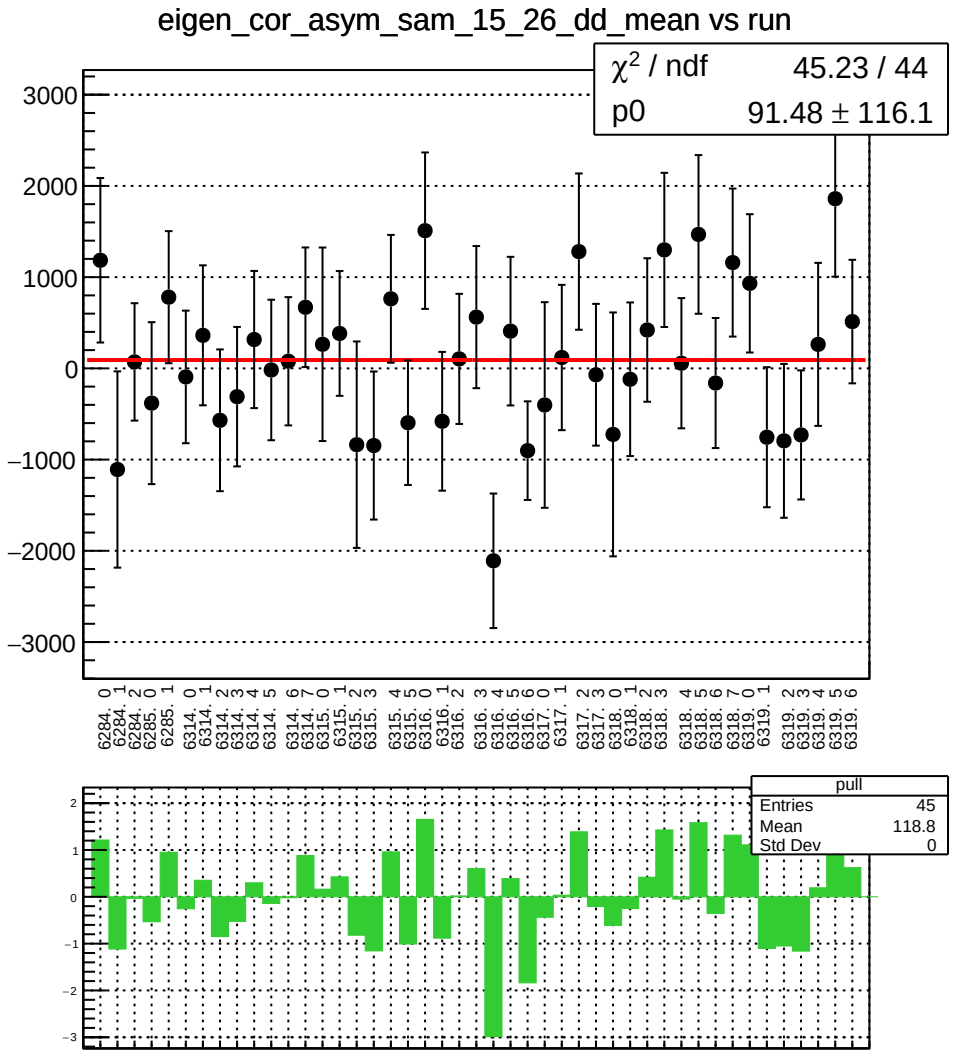
eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 45.23 / 44
p0 91.48 ± 116.1
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 1
6316. 2
6316. 3
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6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
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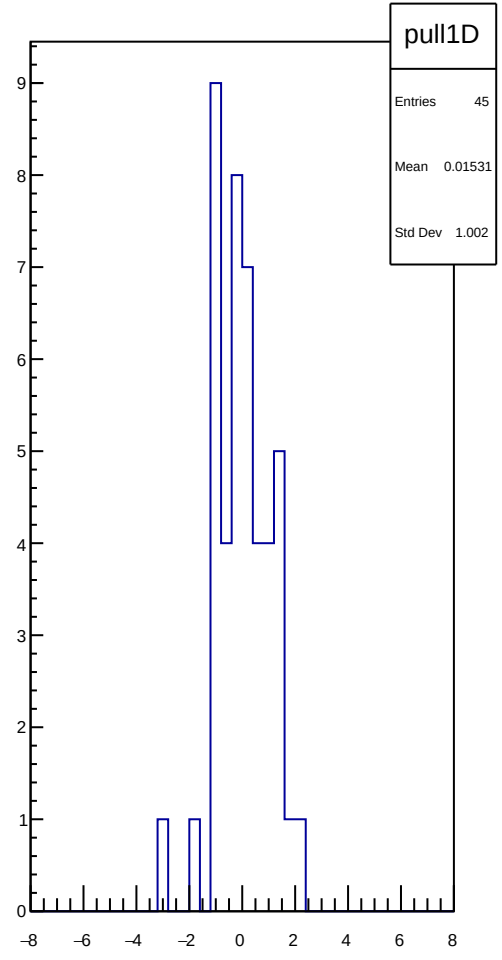
6319. 6
pull
Entries 45
Mean 118.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01531
Std Dev 1.002
9
8
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5
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3
2
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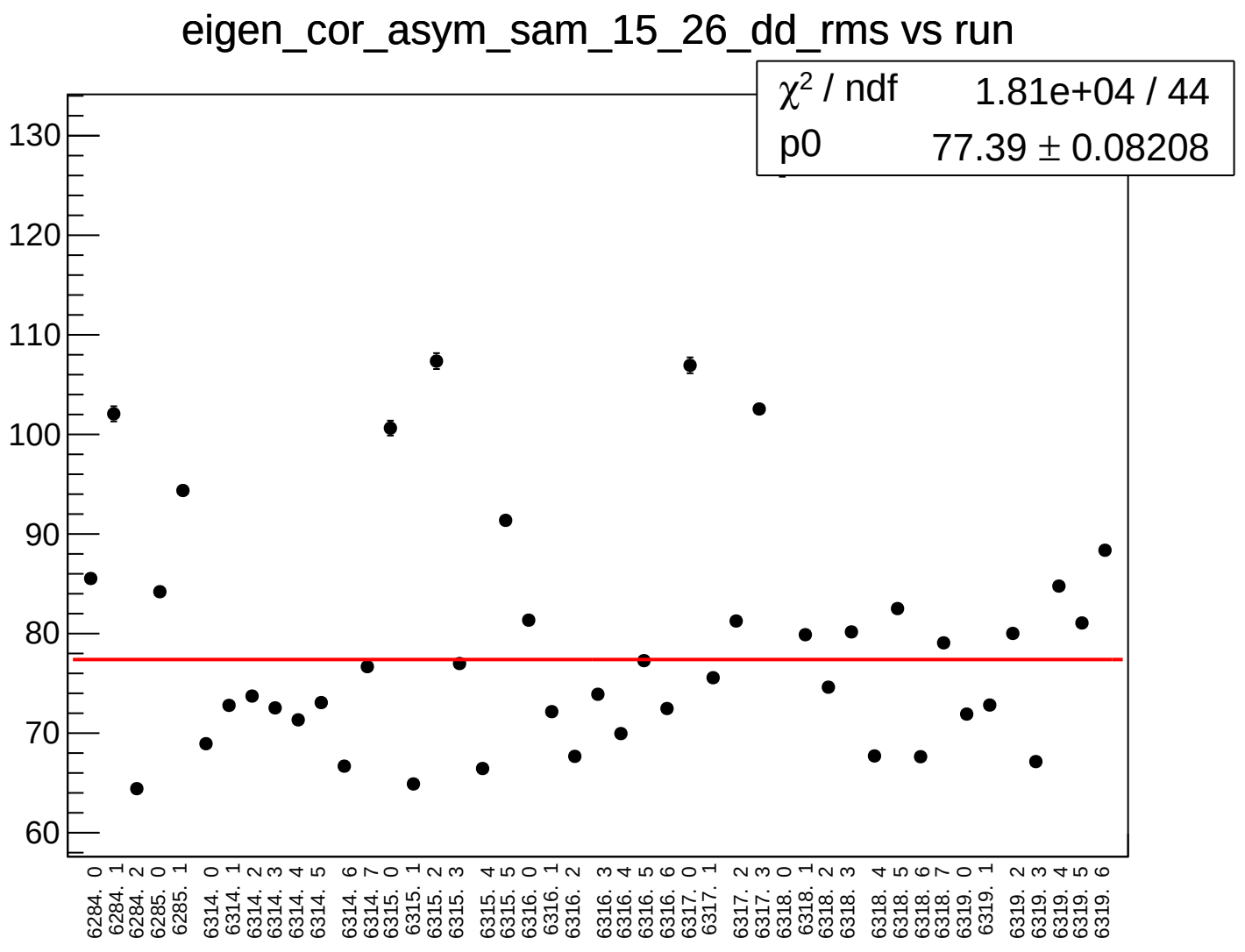
2
4
6
8


eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.81e+04 / 44
p0 77.39 ± 0.08208
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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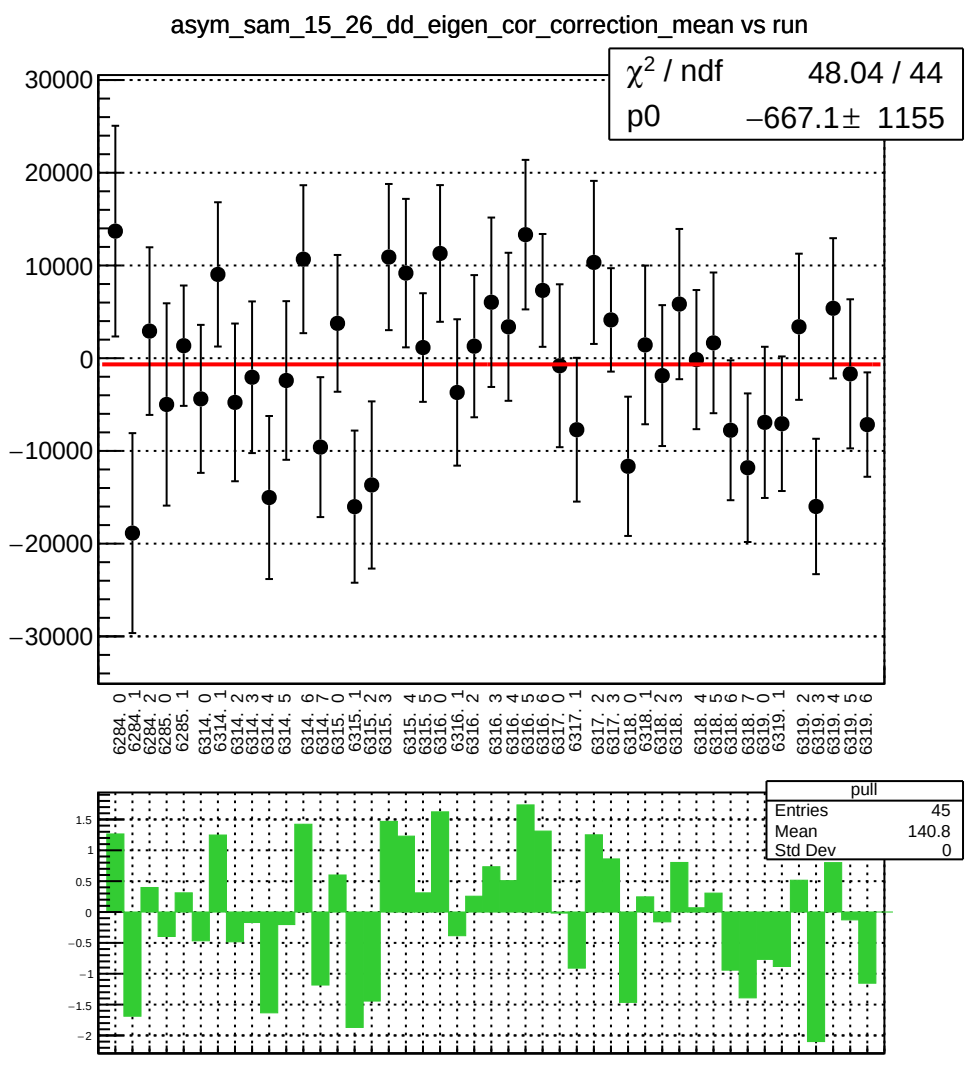
6319. 5
6319. 6


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.04 / 44
p0 −667.1± 1155
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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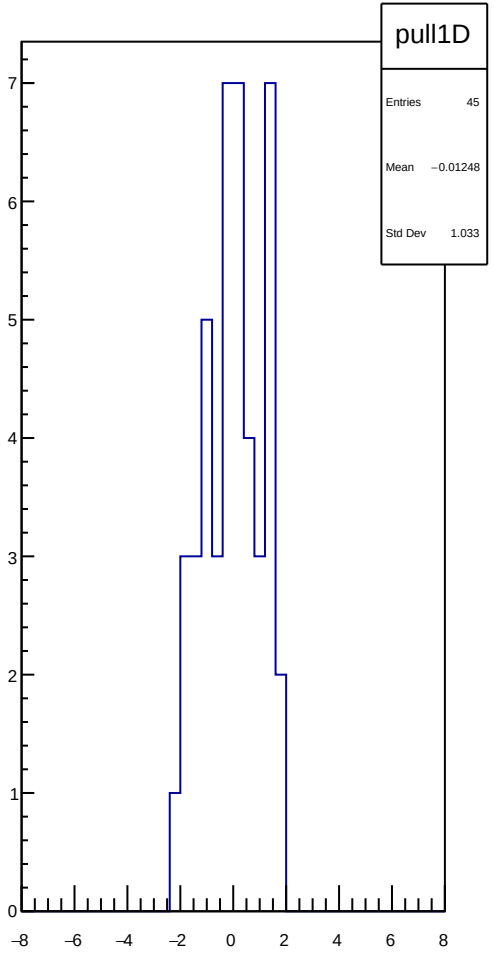
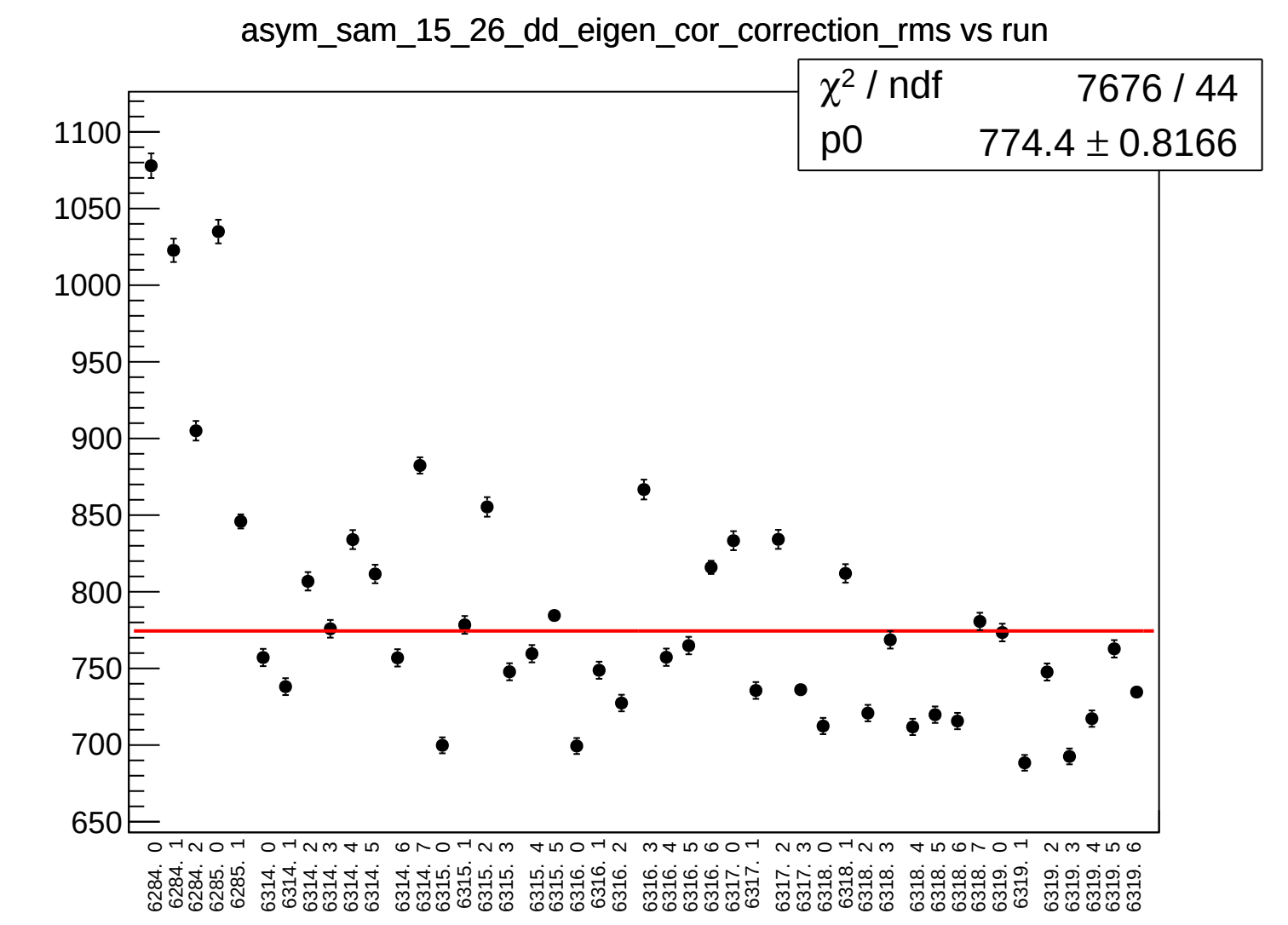
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 140.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01248
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7676 / 44
p0 774.4 ± 0.8166
1100
1050
1000
950
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
6319. 0
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6319. 2
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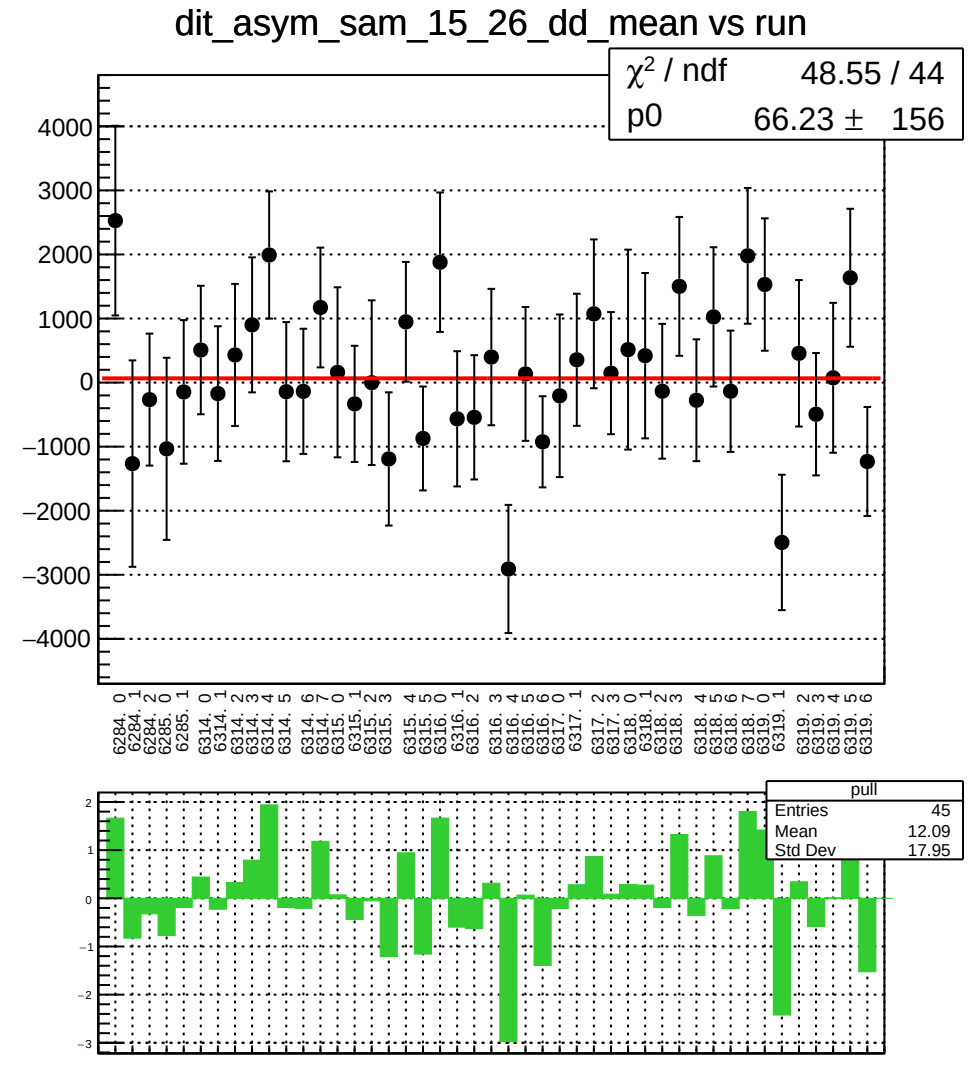
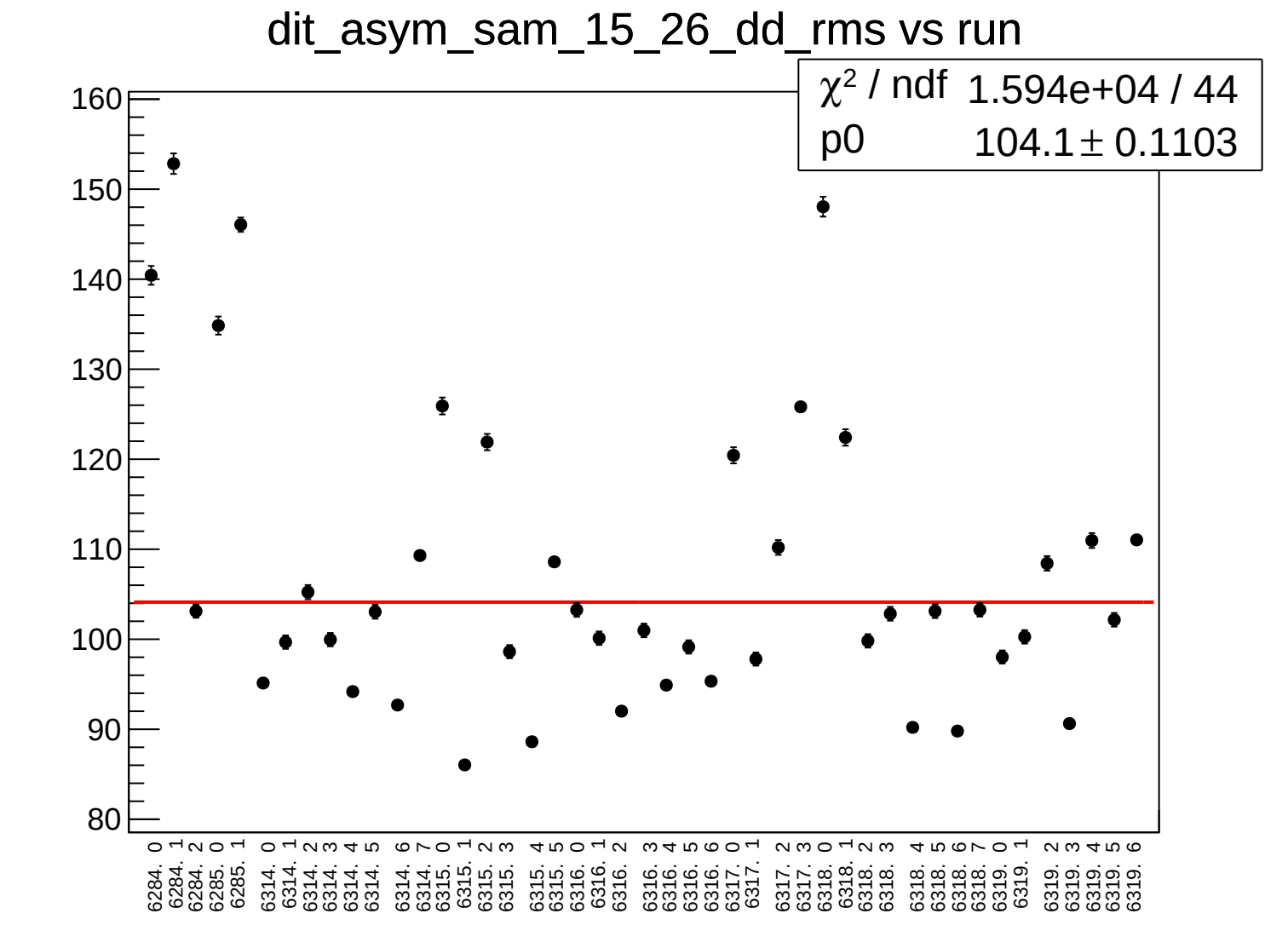
6319. 5
6319. 6


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 48.55 / 44
p0 66.23 ± 156
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.09
Std Dev 17.95
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.03866
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.594e+04 / 44
p0 104.1 ± 0.1103
160
150
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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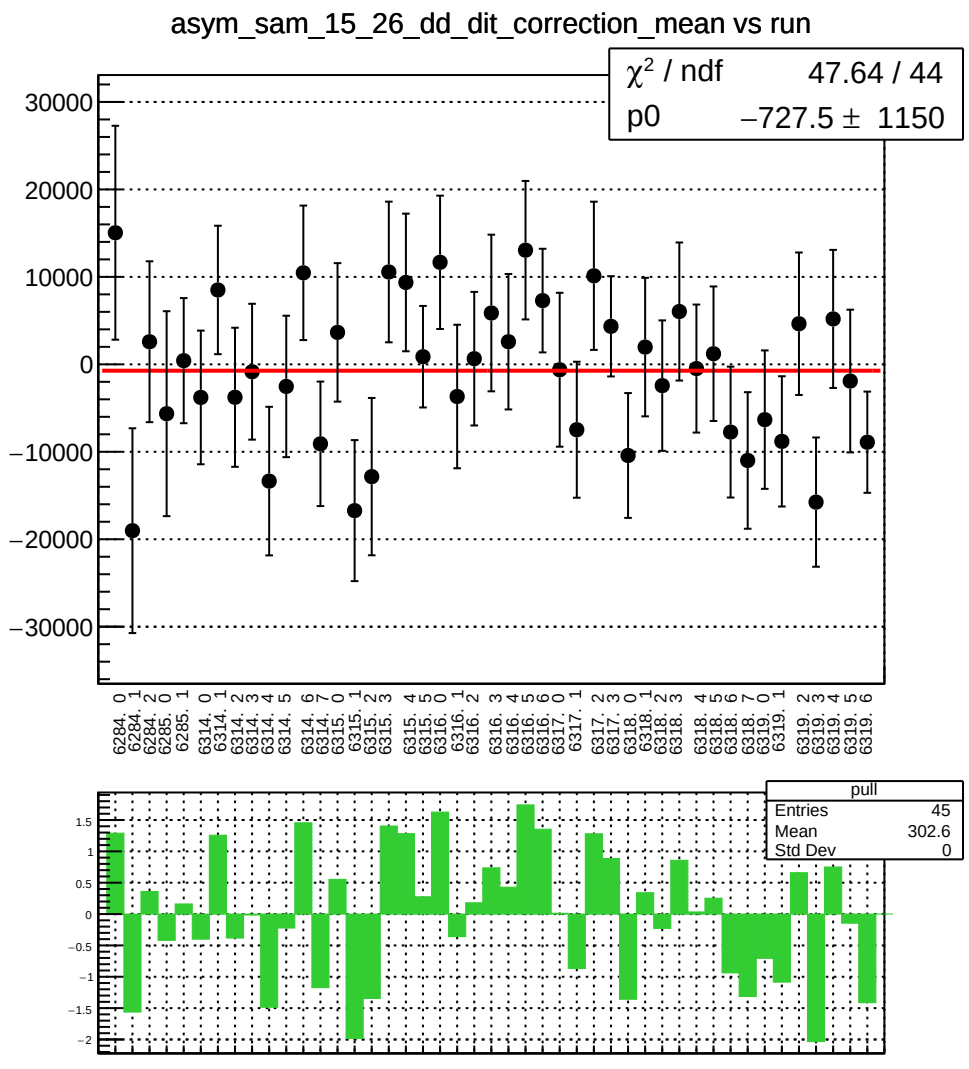
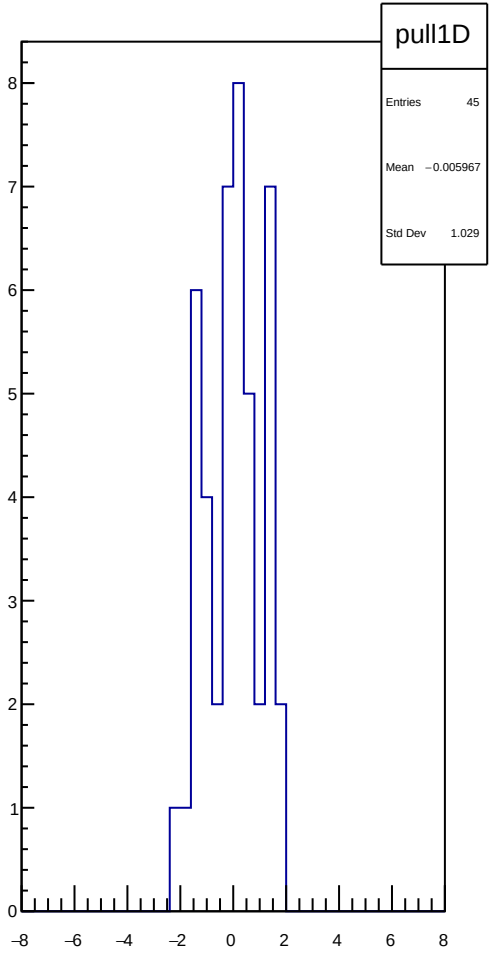
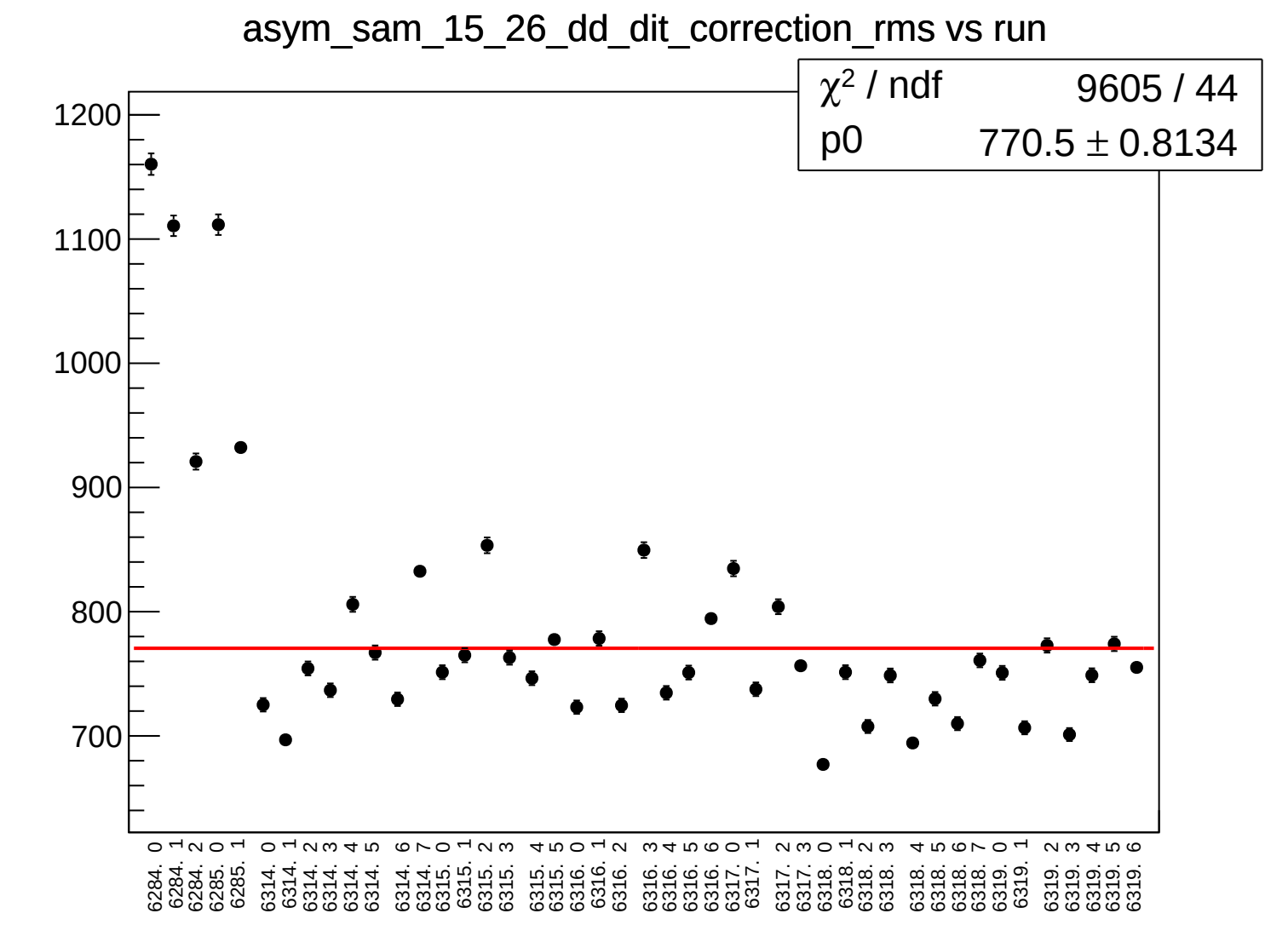
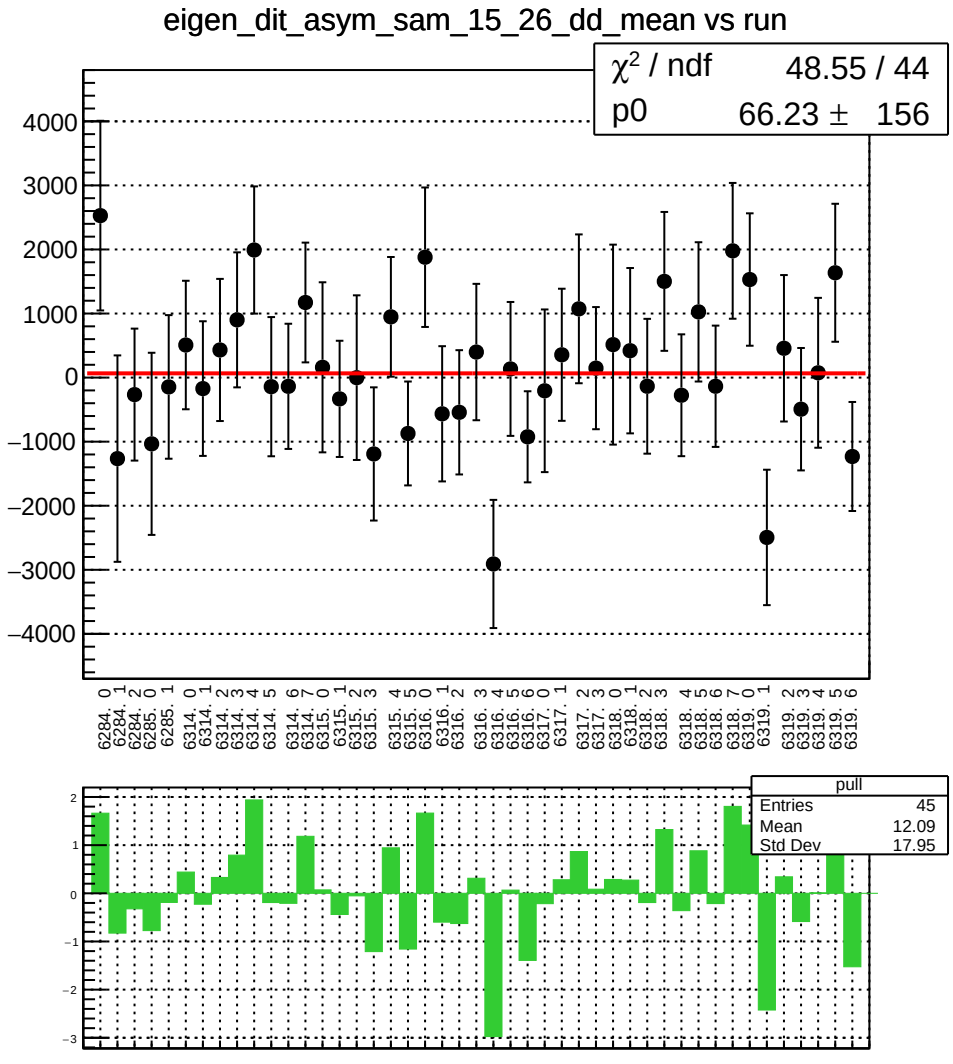
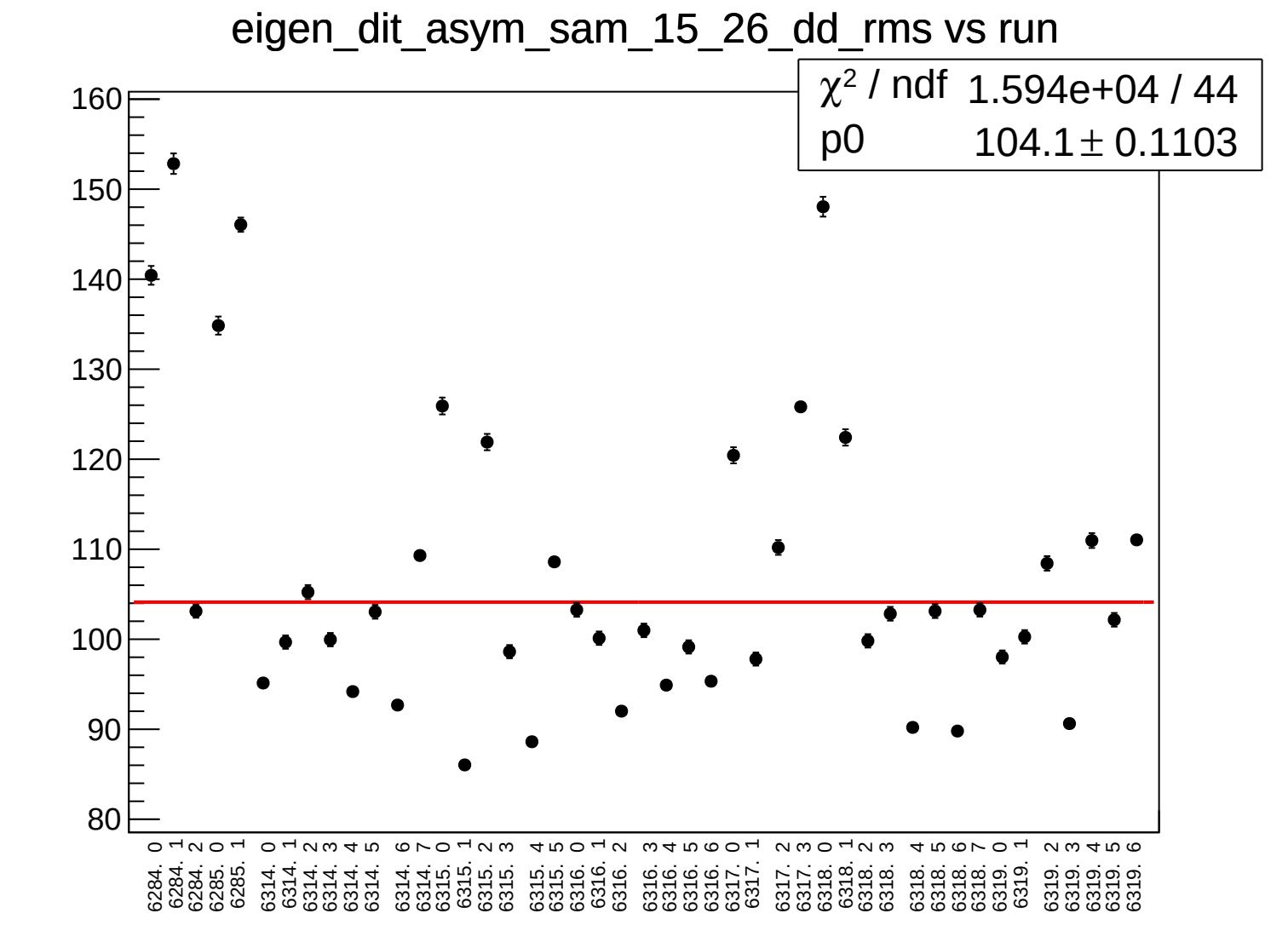
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

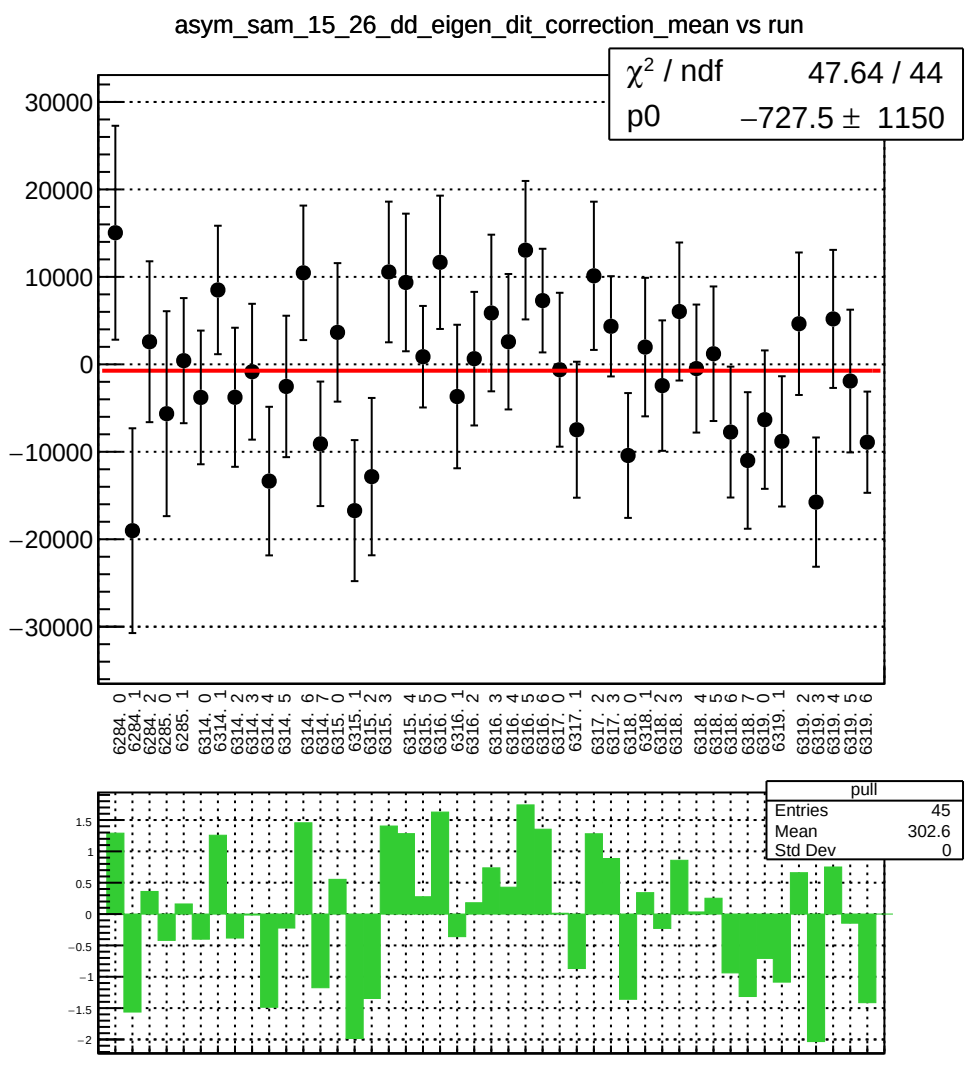

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 47.64 / 44
p0 −727.5 ± 1150
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 302.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

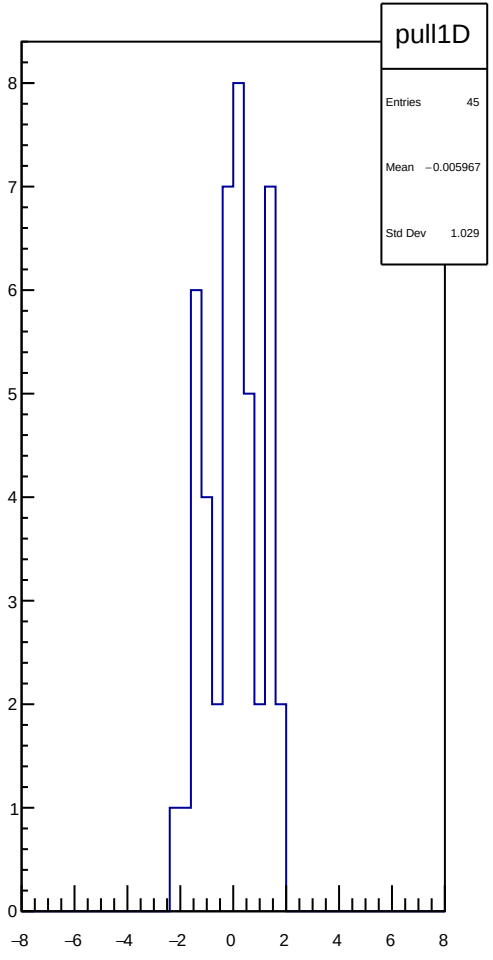

pull1D
Entries 45
Mean −0.005967
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

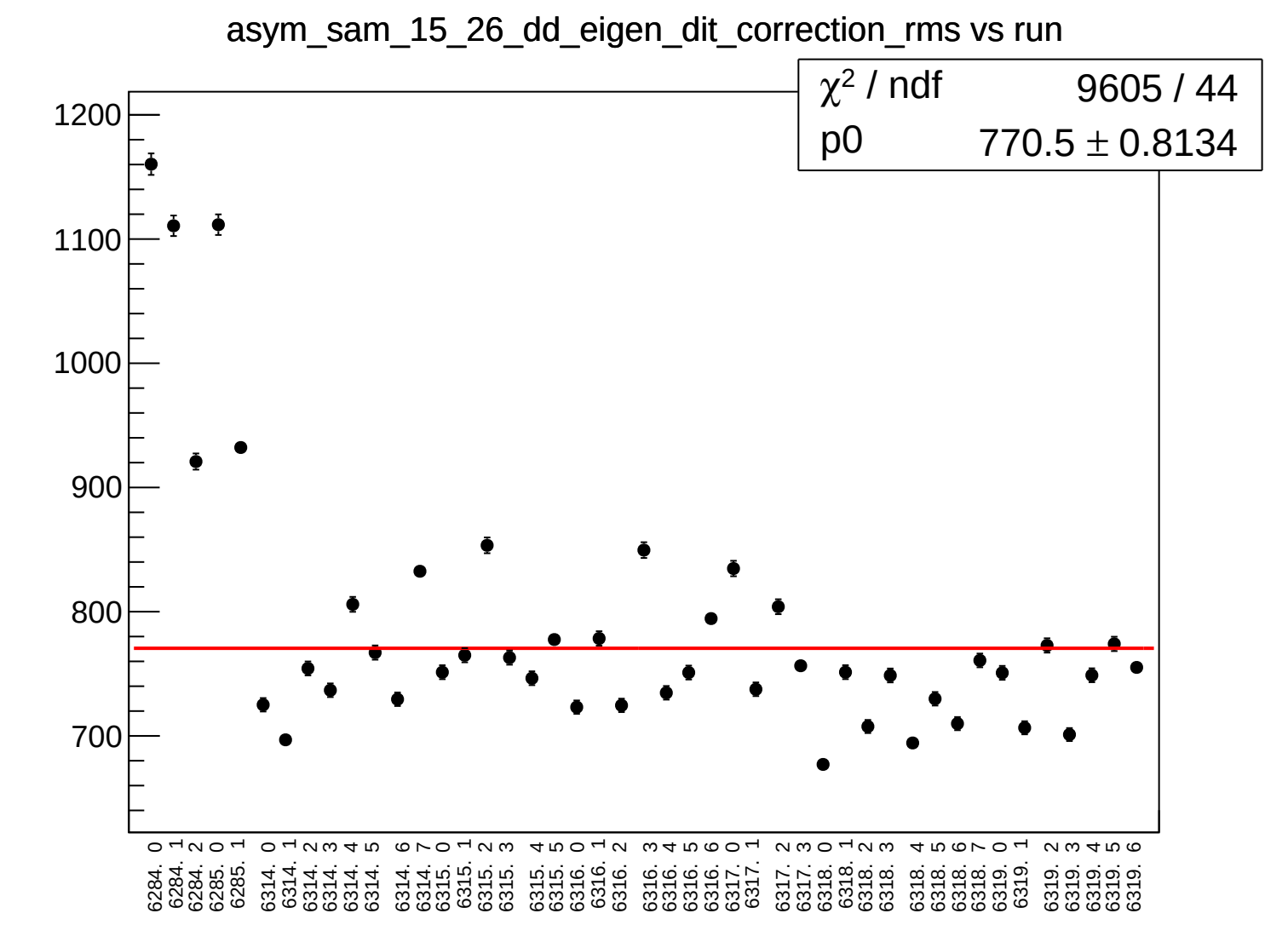

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 9605 / 44
p0 770.5 ± 0.8134
1200
1100
1000
900
800
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

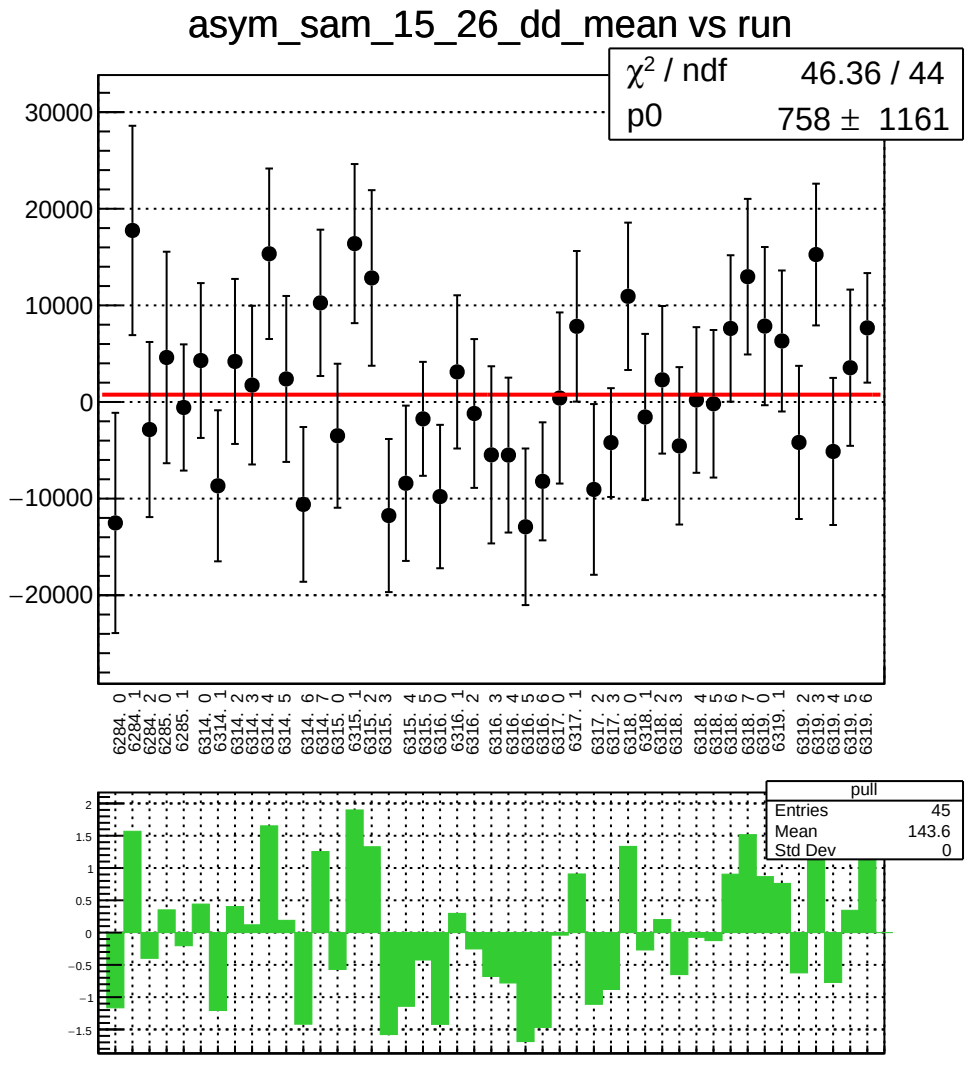

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 48.55 / 44
p0 66.23 ± 156
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 12.09
Std Dev 17.95
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.03866
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

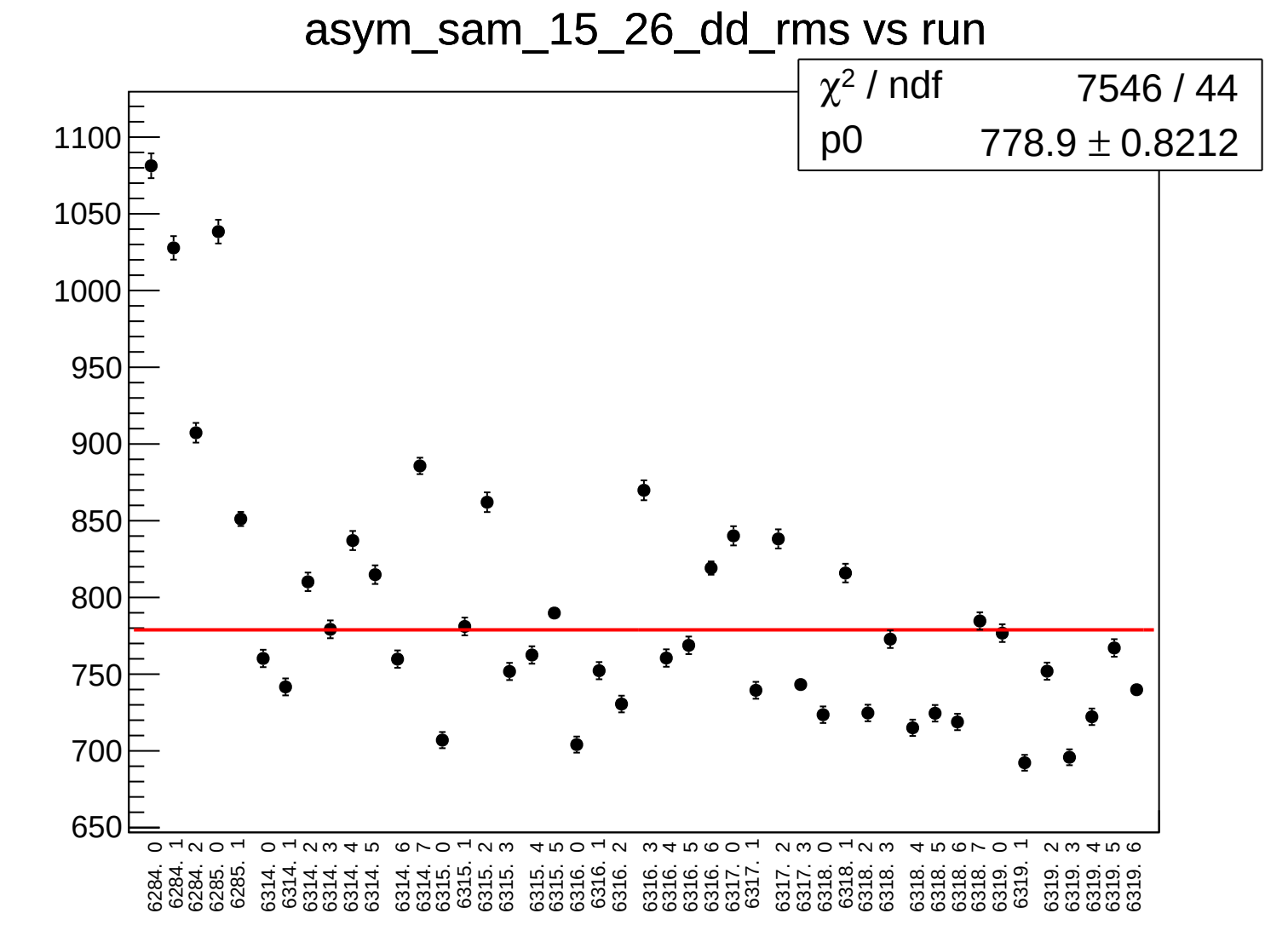

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.594e+04 / 44
p0 104.1 ± 0.1103
160
150
140
130
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

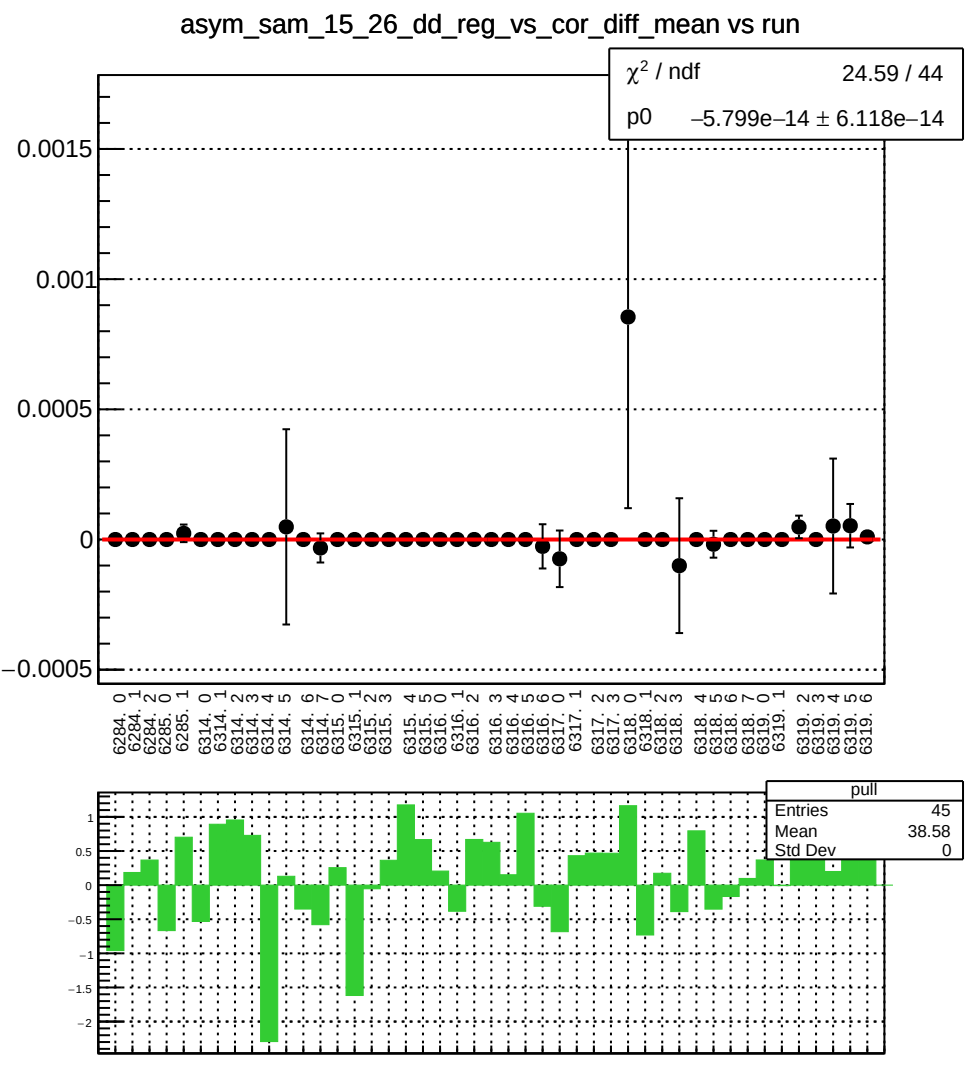

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.64 / 44
p0 −727.5 ± 1150
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 302.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

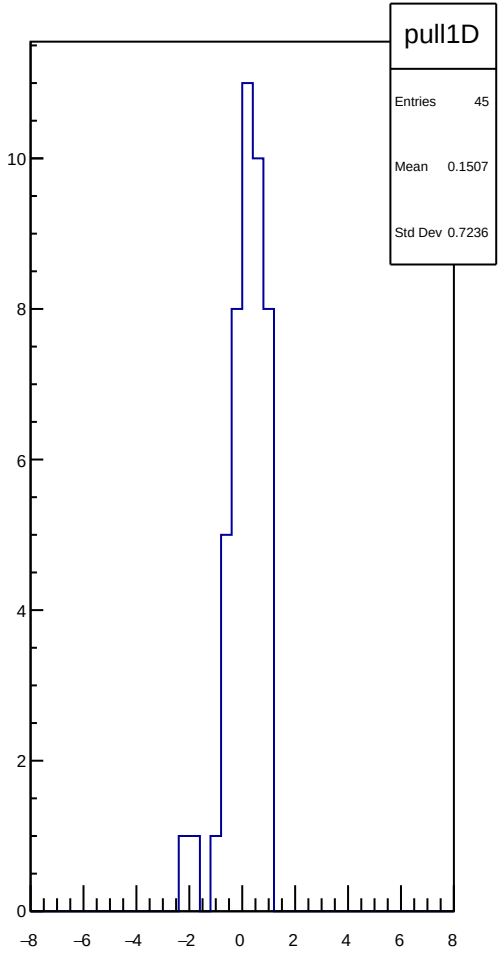

pull1D
Entries 45
Mean −0.005967
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

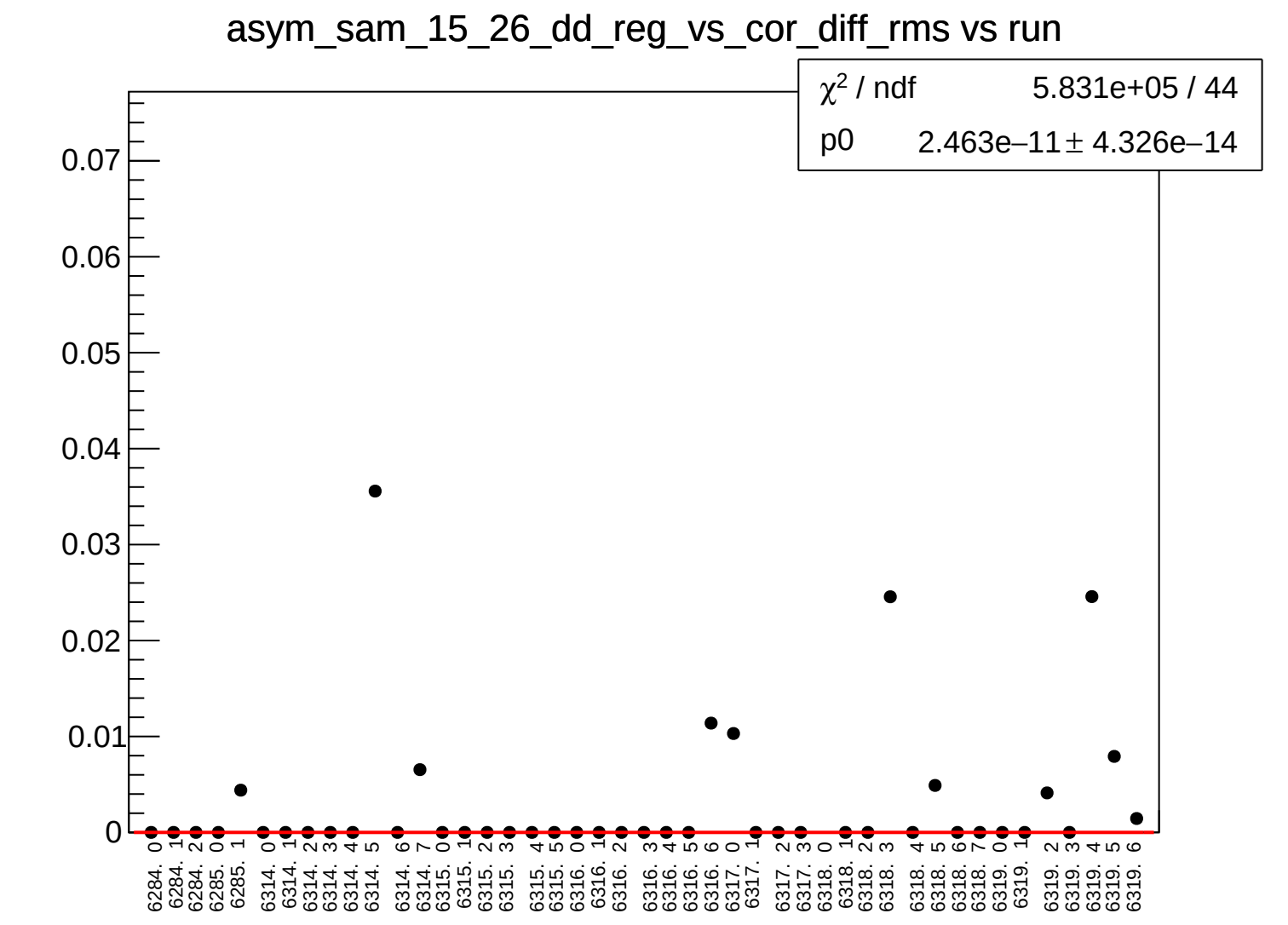

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 9605 / 44
p0 770.5 ± 0.8134
1200
1100
1000
900
800
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

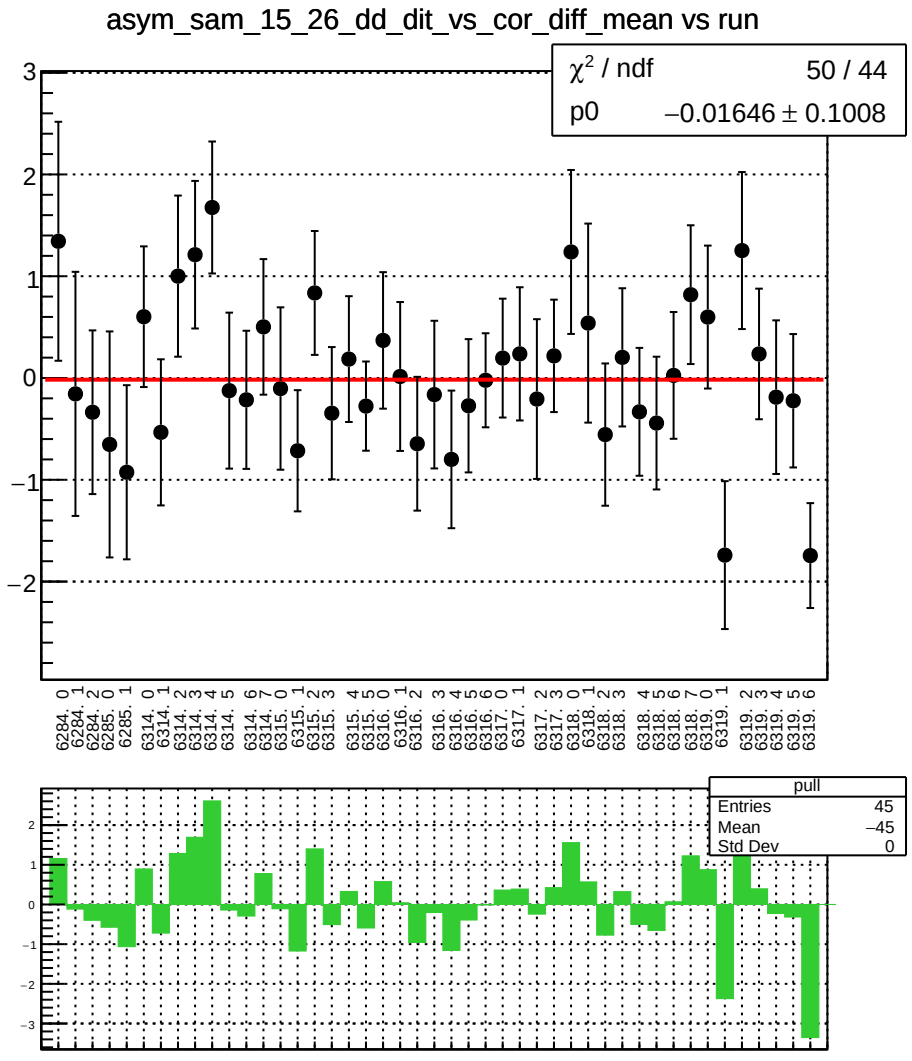

asym_sam_15_26_dd_mean vs run
χ² / ndf 46.36 / 44
p0 758 ± 1161
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 143.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01344
Std Dev 1.015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

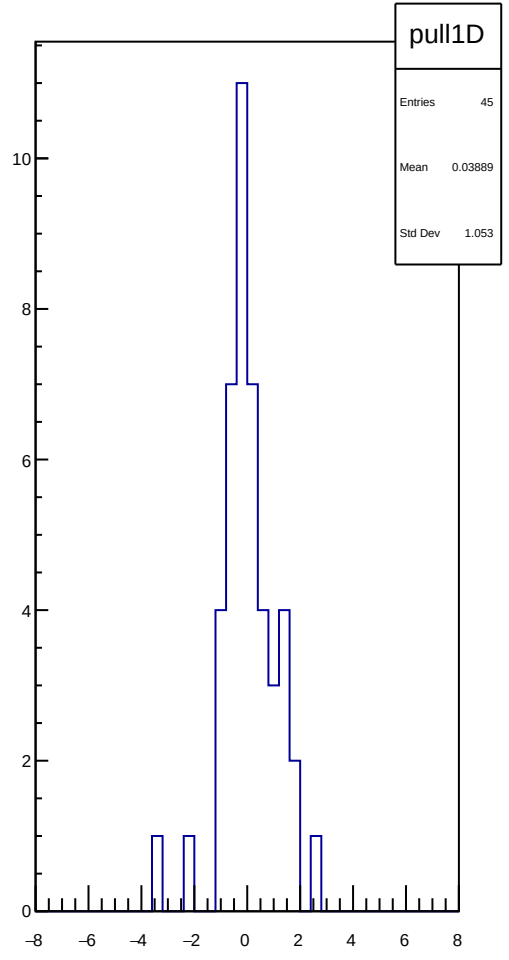

asym_sam_15_26_dd_rms vs run
χ² / ndf 7546 / 44
p0 778.9 ± 0.8212
1100
1050
1000
950
900
850
800
750
700
650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

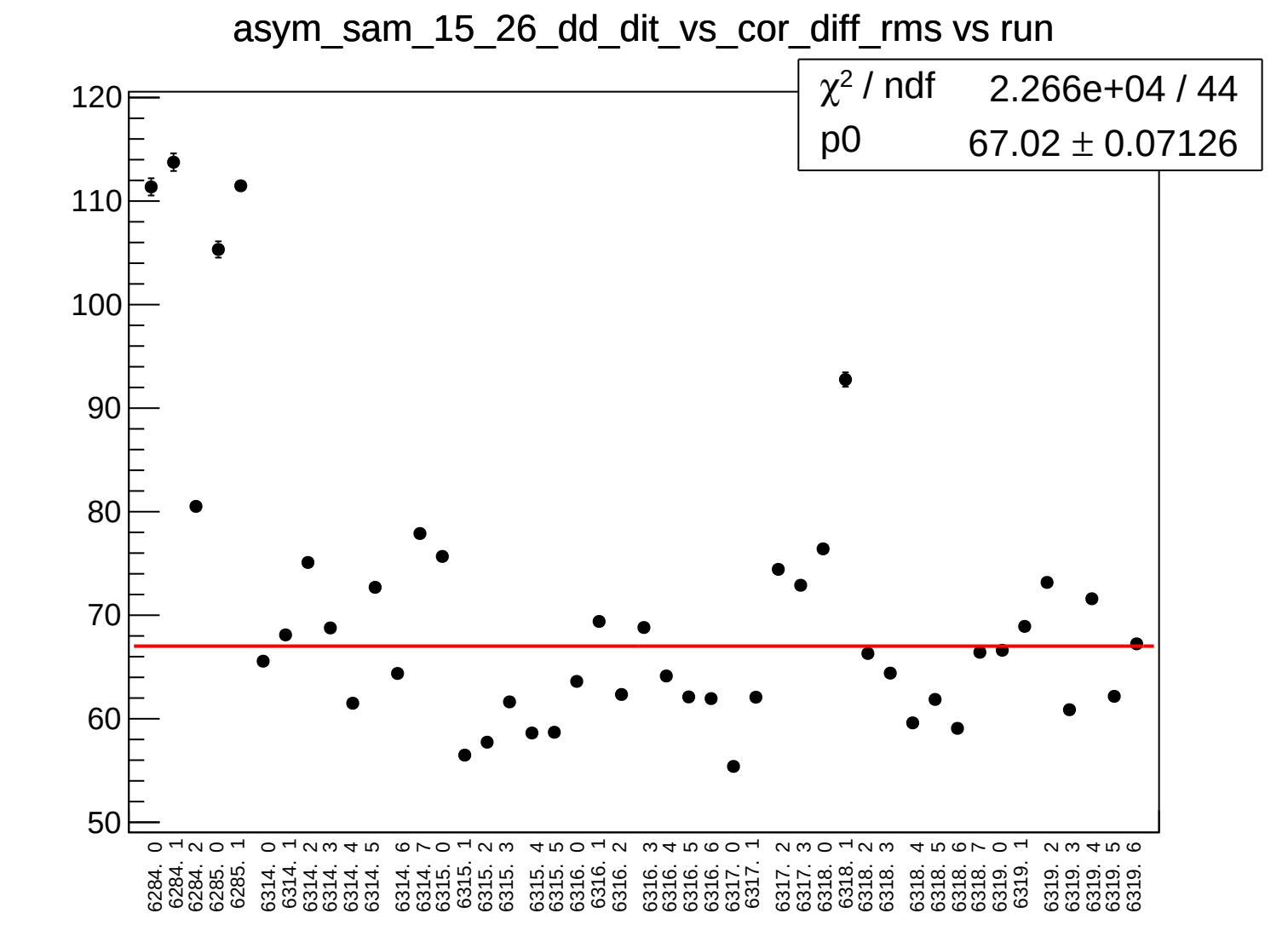

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.59 / 44
p0 −5.799e−14 ± 6.118e−14
0.0015
0.001
0.0005
0
−0.0005
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 38.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.1507
Std Dev 0.7236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.831e+05 / 44
p0 2.463e−11 ± 4.326e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50 / 44
p0 −0.01646 ± 0.1008
pull
Entries 45
Mean −45
Std Dev 0


pull1D
Entries 45
Mean 0.03889
Std Dev 1.053


asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.266e+04 / 44
p0 67.02 ± 0.07126
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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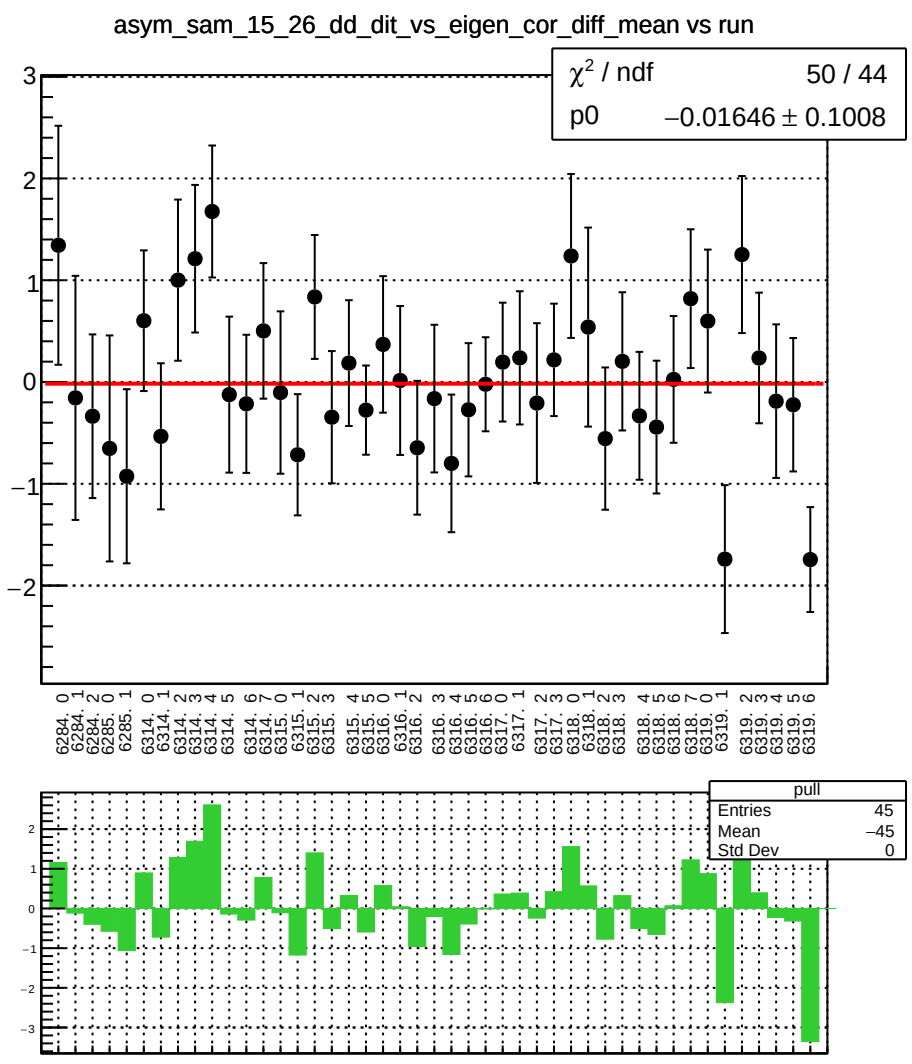
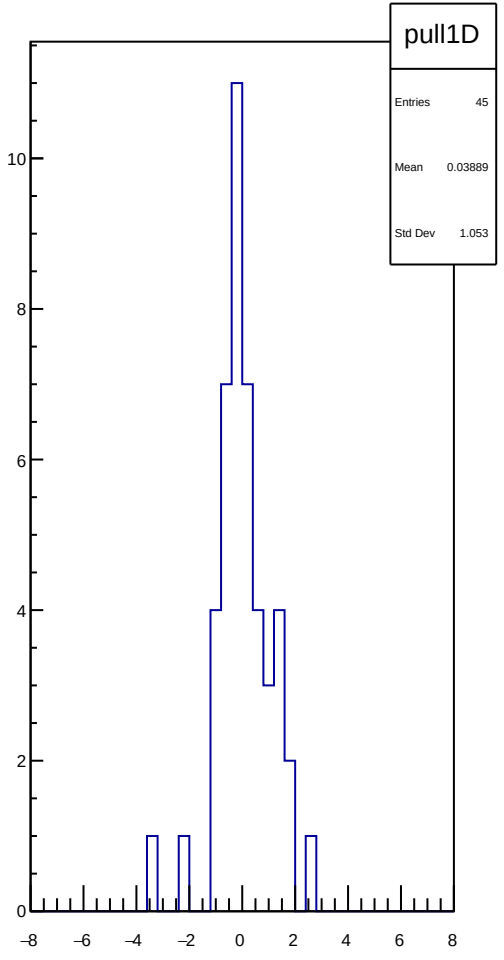
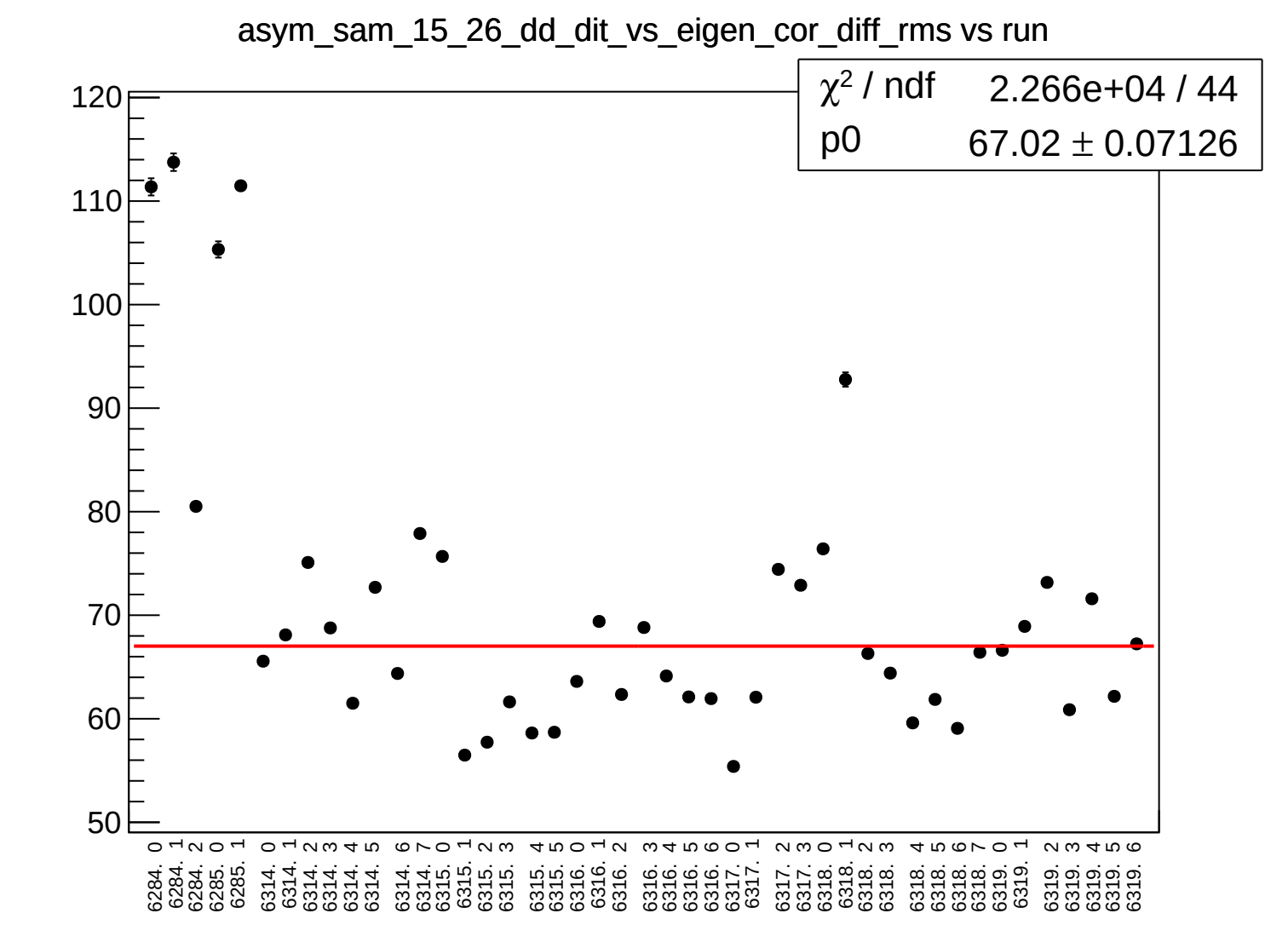
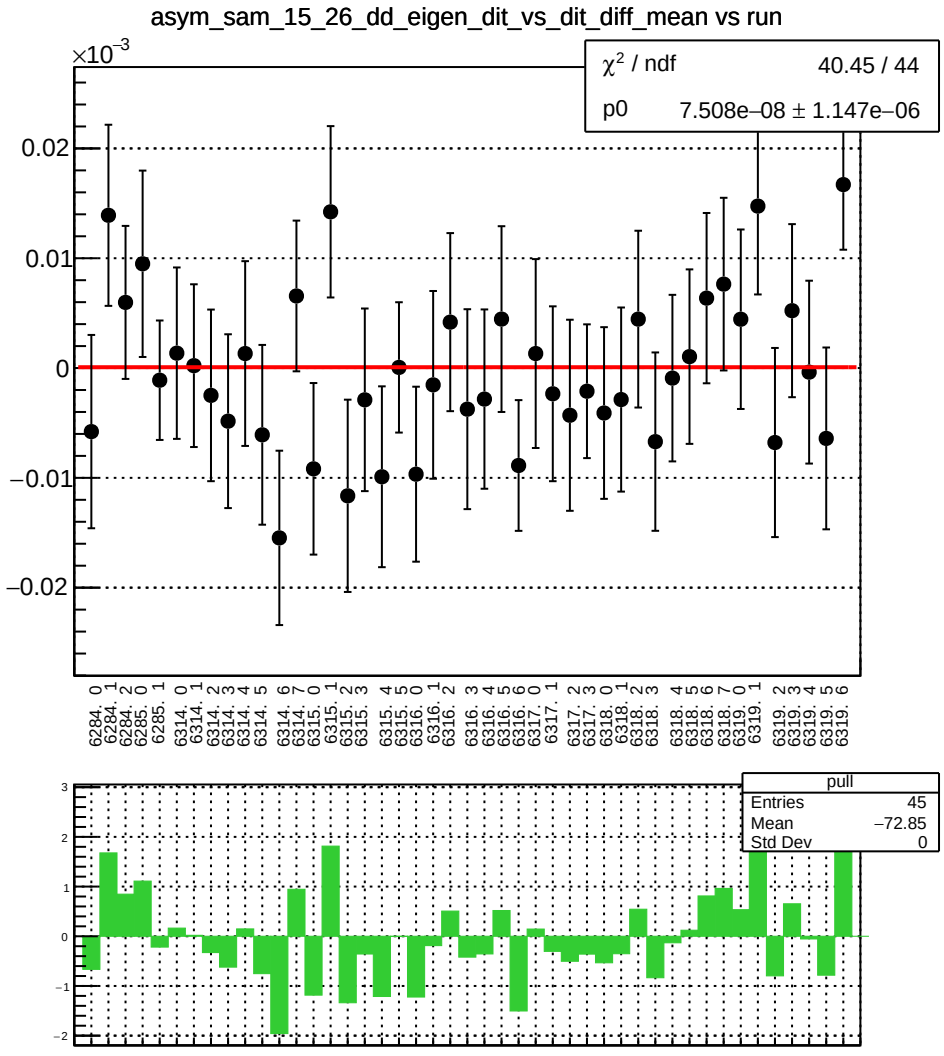
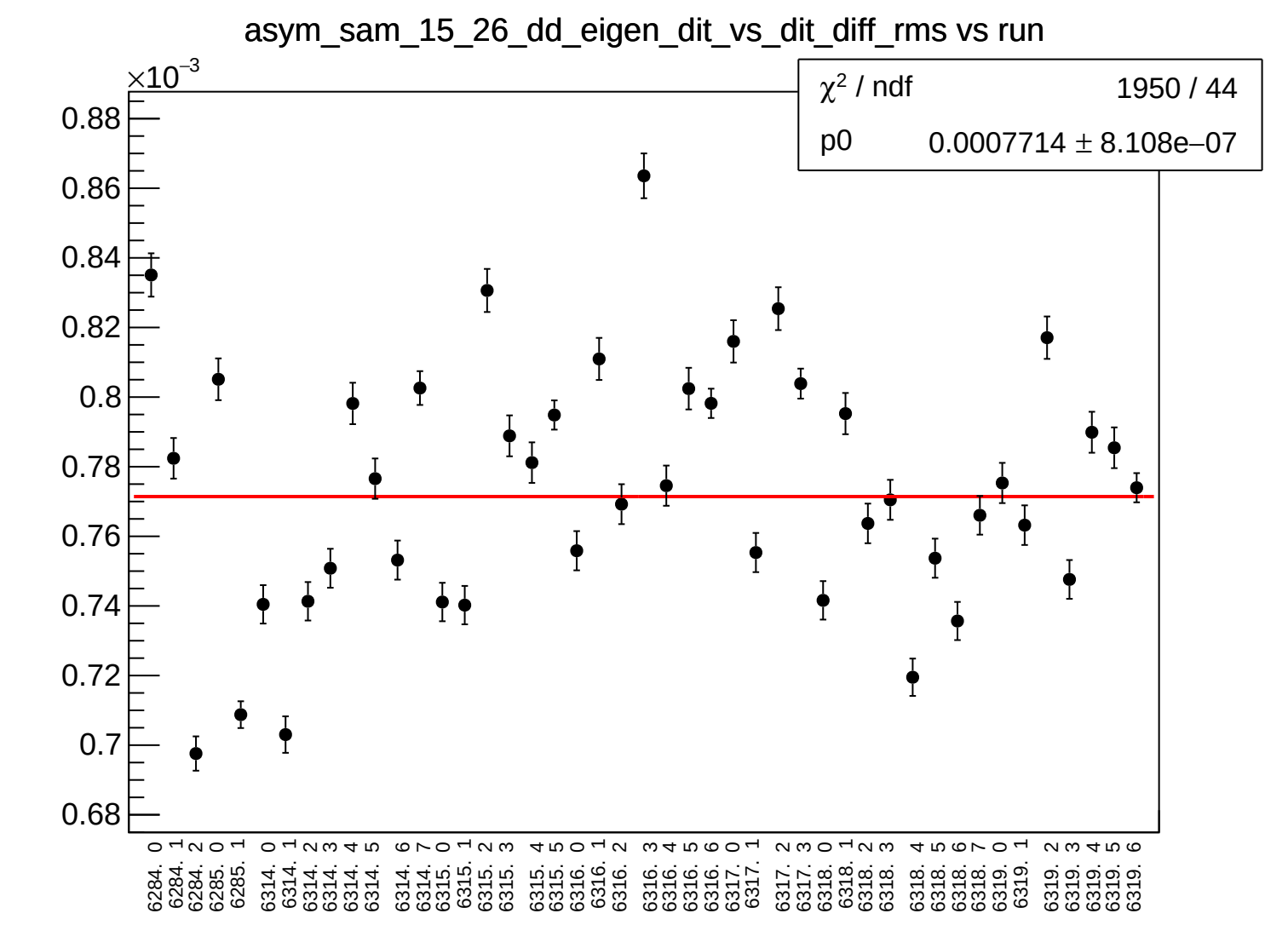
6319. 5
6319. 6


asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50 / 44
p0 −0.01646 ± 0.1008
pull
Entries 45
Mean −45
Std Dev 0


pull1D
Entries 45
Mean 0.03889
Std Dev 1.053


asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.266e+04 / 44
p0 67.02 ± 0.07126
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.45 / 44
p0 7.508e−08 ± 1.147e−06
0.02
0.01
0
−0.01
−0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −72.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01828
Std Dev 0.9479
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1950 / 44
p0 0.0007714 ± 8.108e−07
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
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6318. 2
6318. 3
6318. 4
6318. 5
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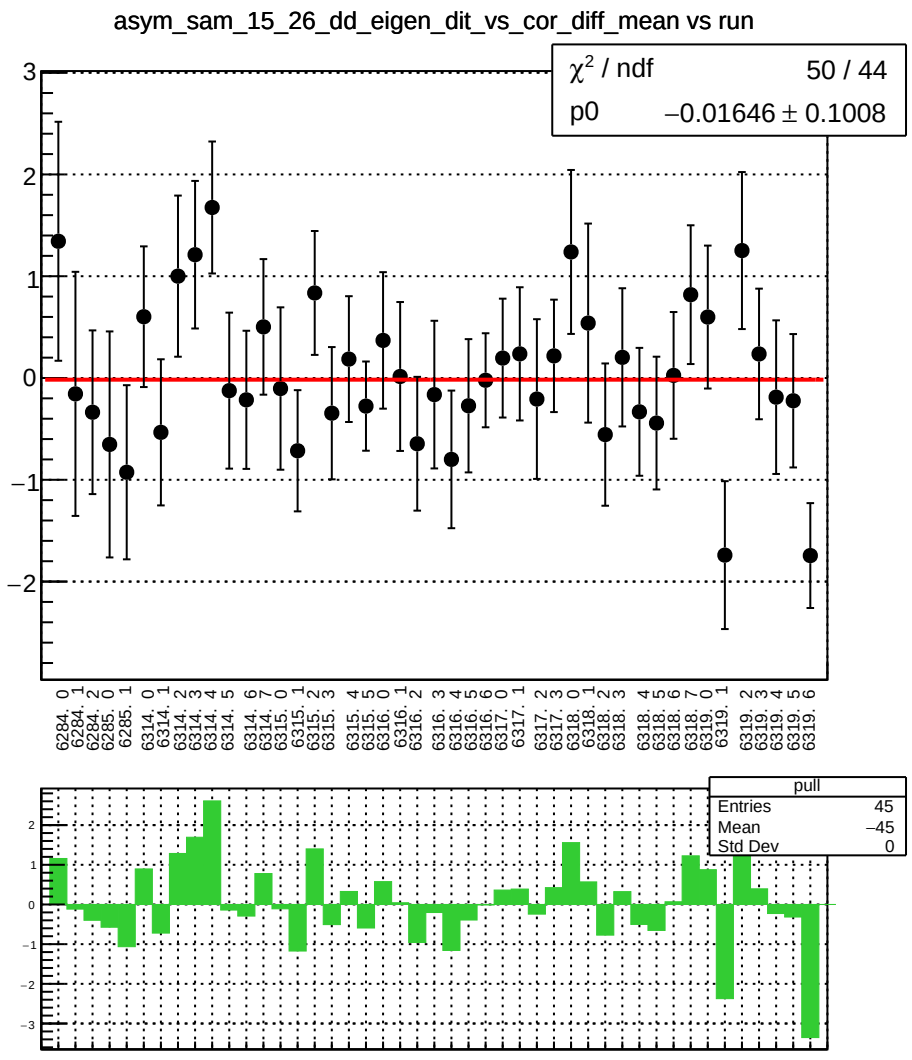
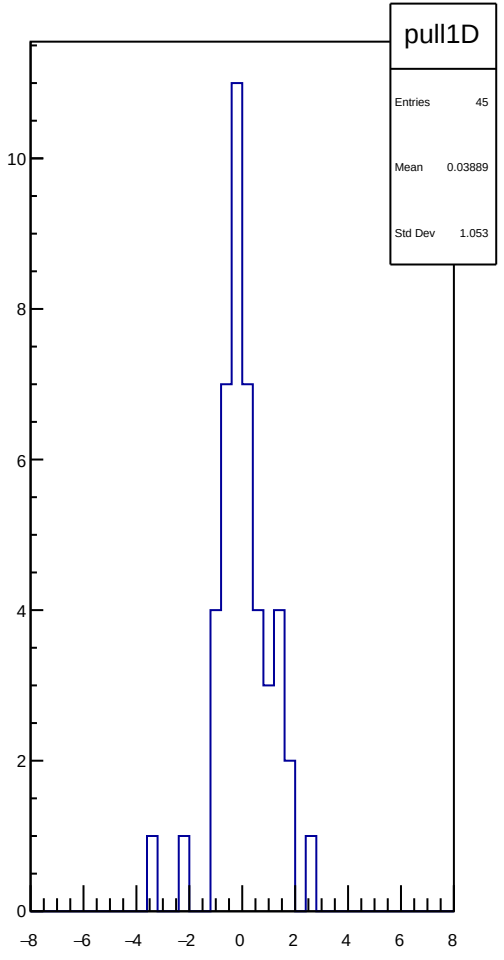
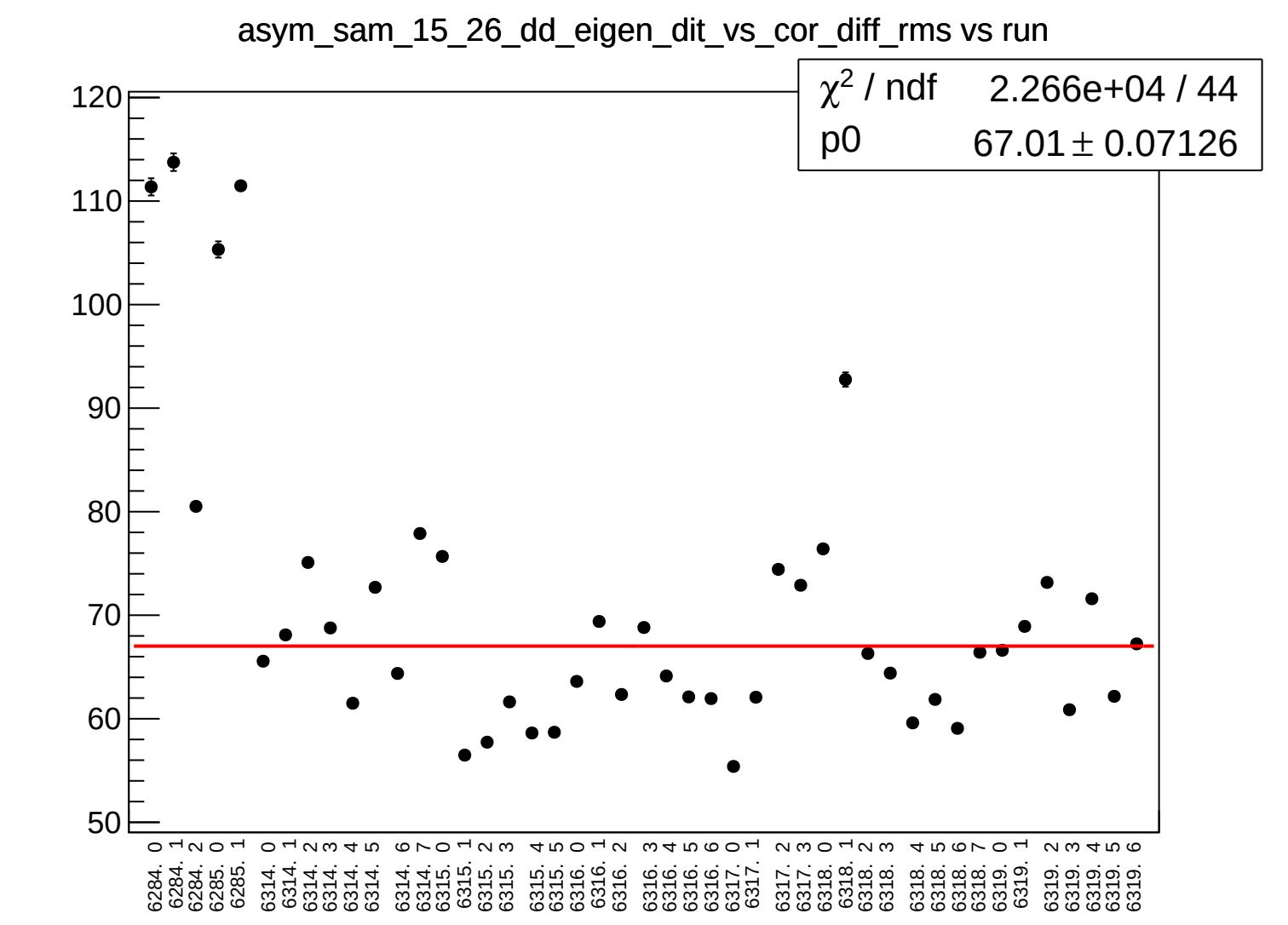
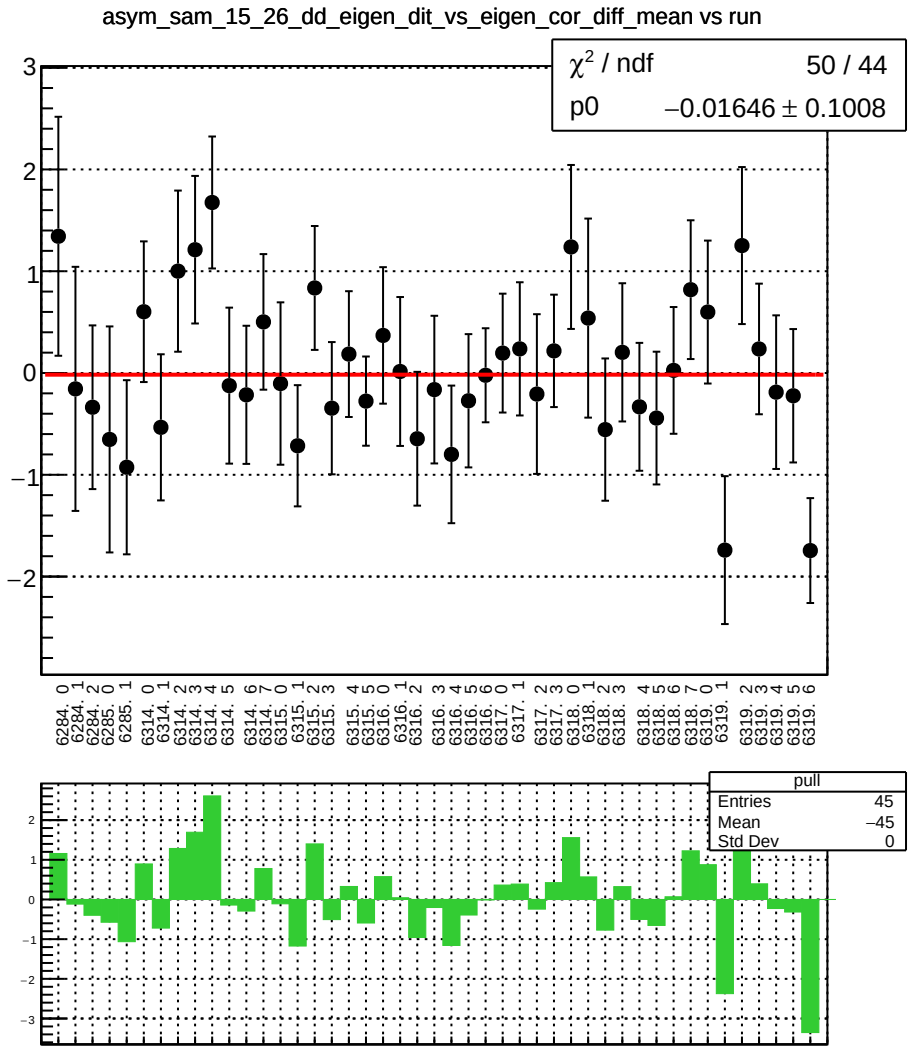
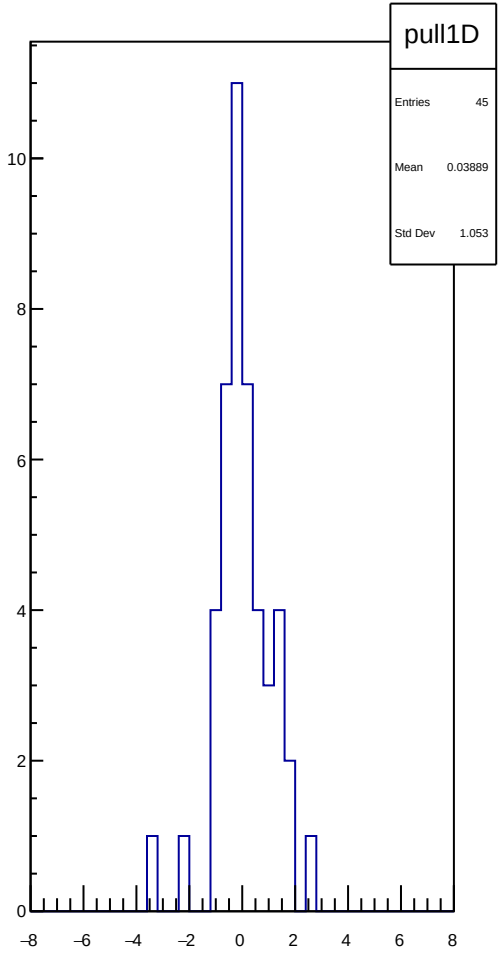
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

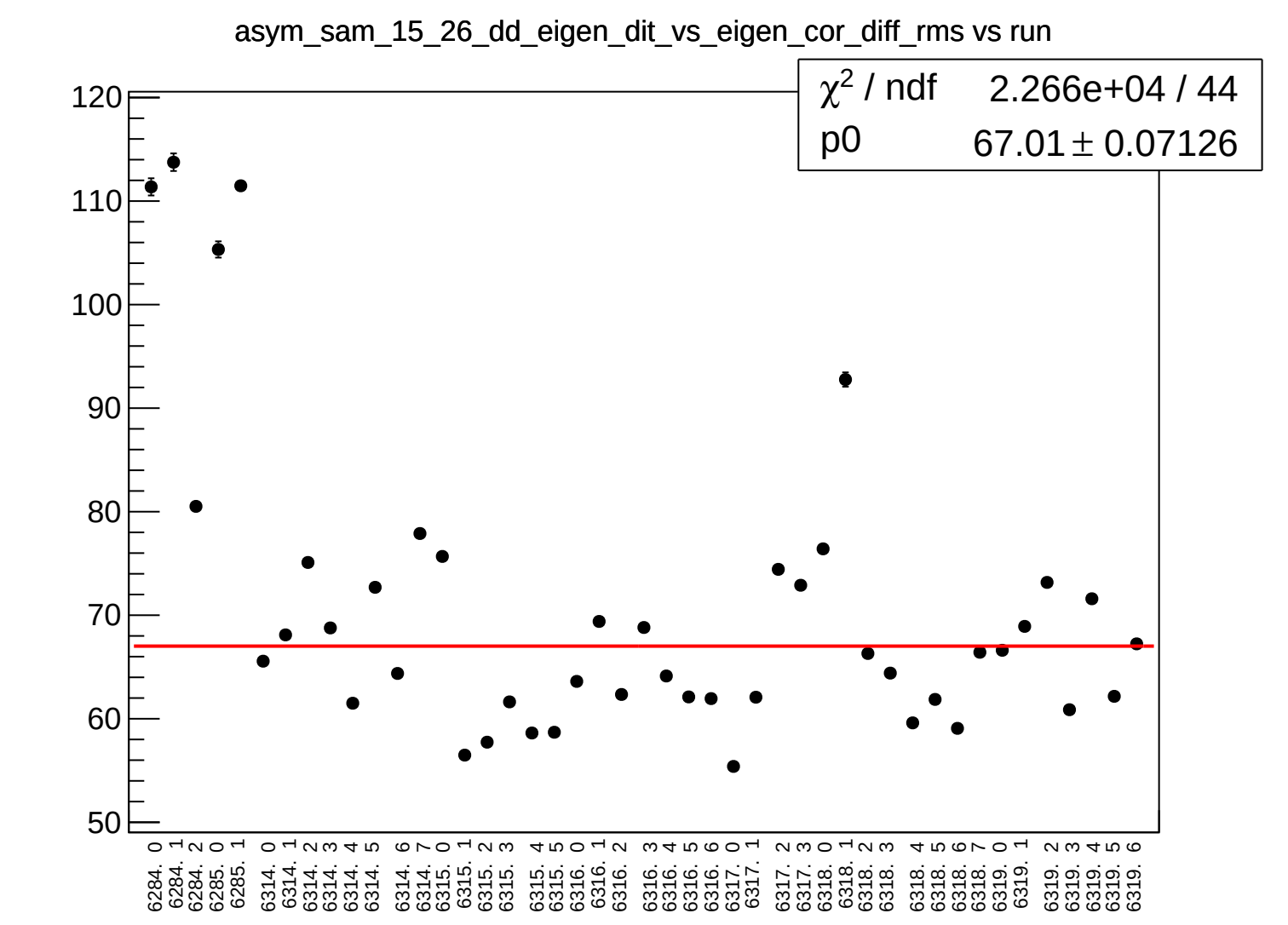

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50 / 44
p0 −0.01646 ± 0.1008
pull
Entries 45
Mean −45
Std Dev 0


pull1D
Entries 45
Mean 0.03889
Std Dev 1.053


asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.266e+04 / 44
p0 67.01 ± 0.07126
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50 / 44
p0 −0.01646 ± 0.1008
pull
Entries 45
Mean −45
Std Dev 0


pull1D
Entries 45
Mean 0.03889
Std Dev 1.053


asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.266e+04 / 44
p0 67.01 ± 0.07126
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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6319. 2
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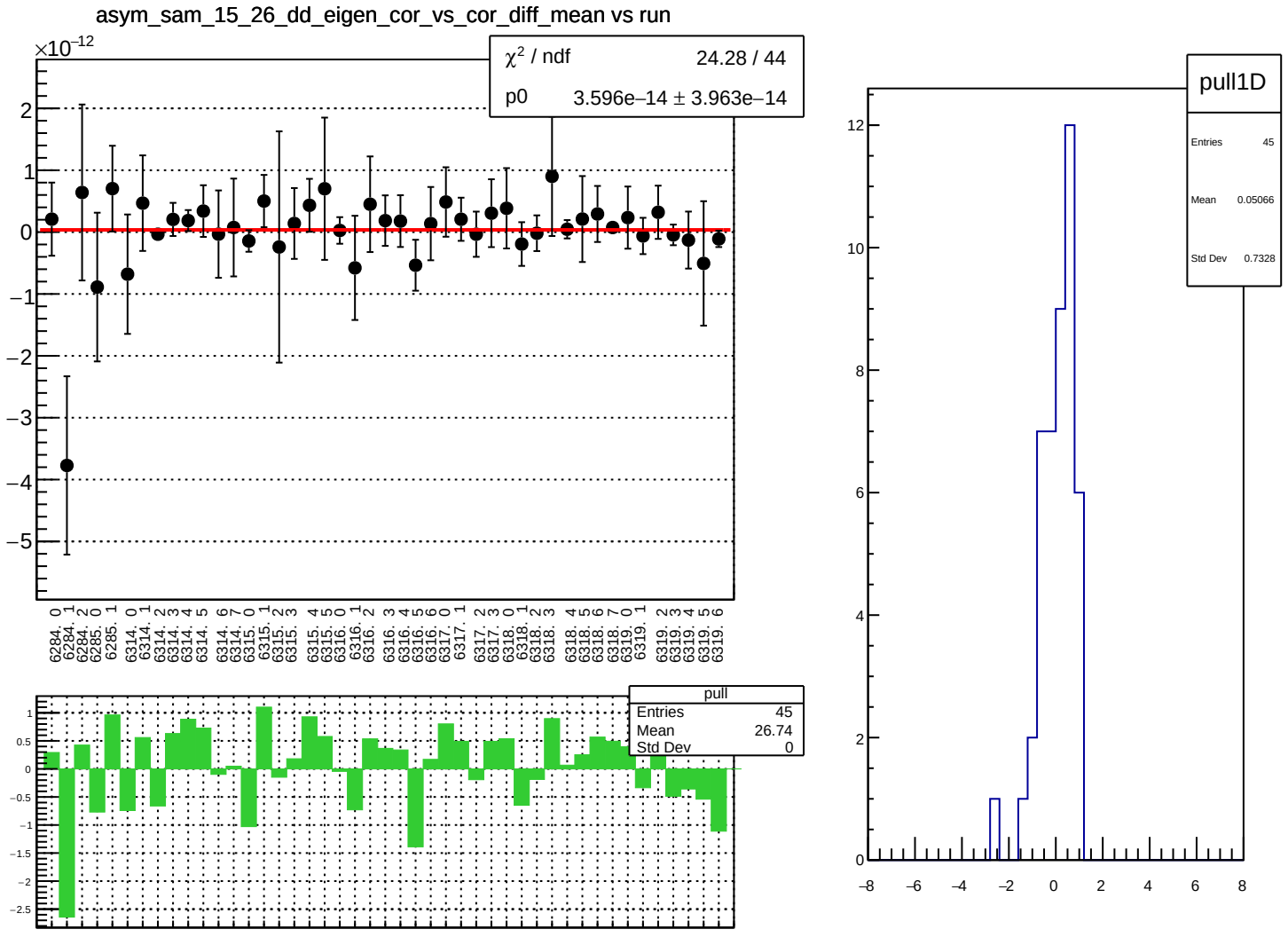
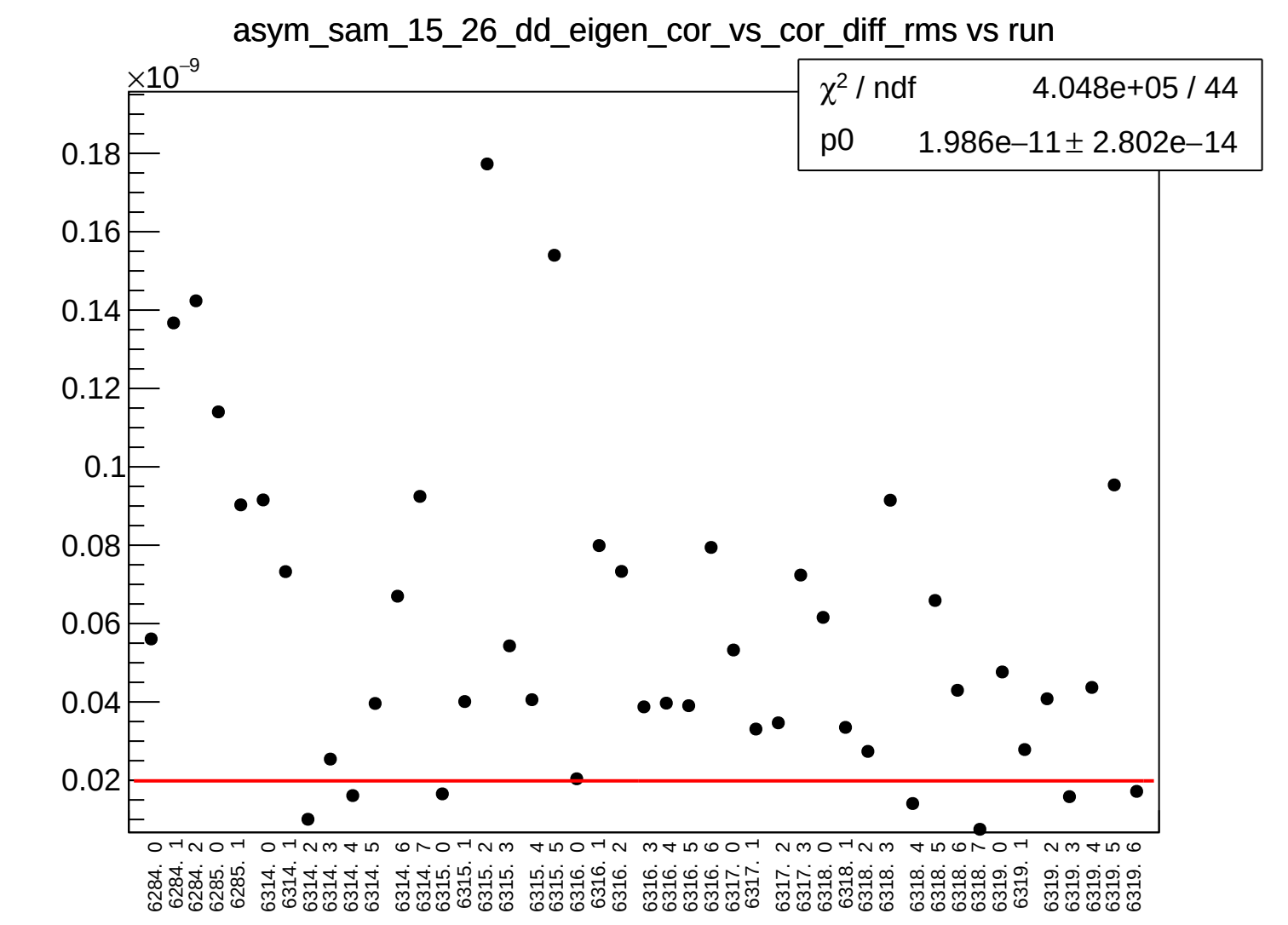
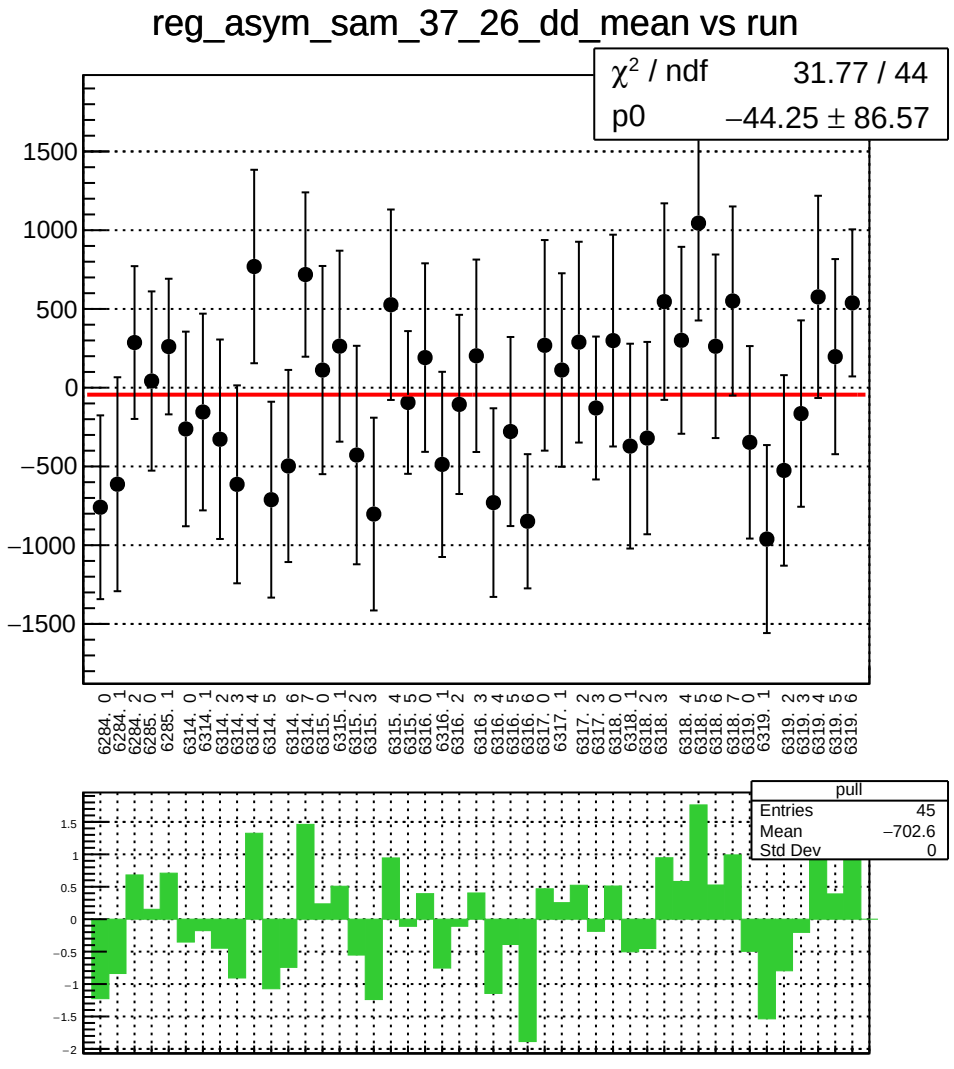
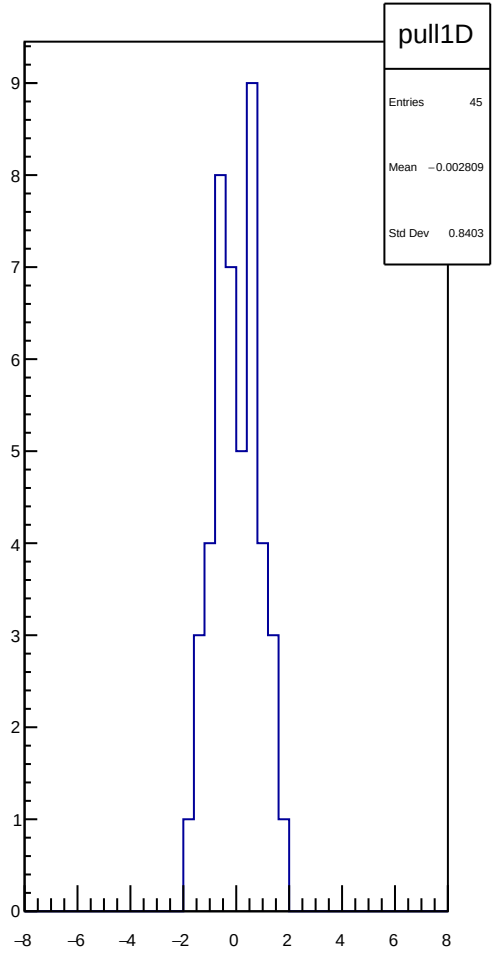
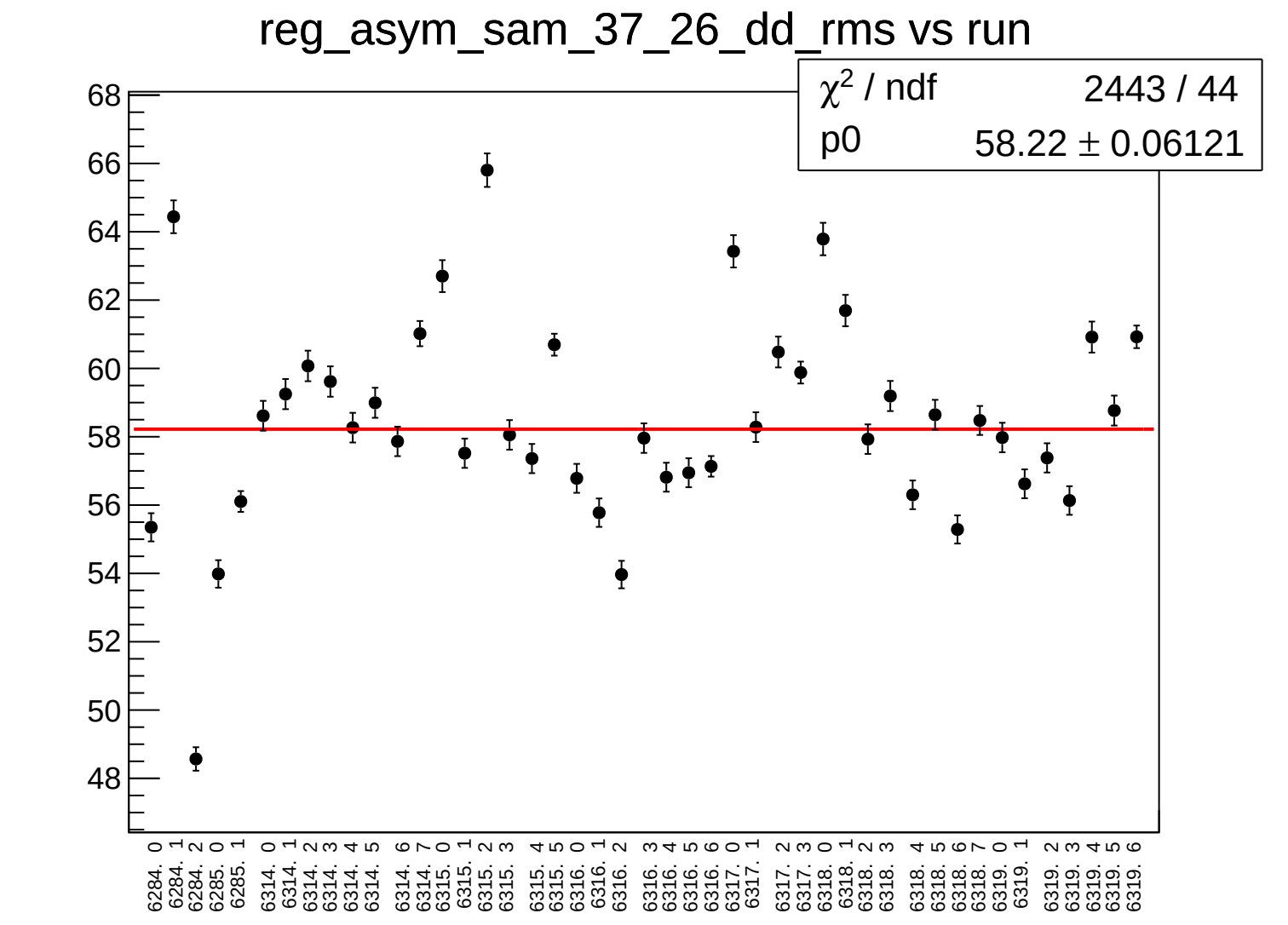
6319. 6


asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.28 / 44
p0 3.596e−14 ± 3.963e−14
pull
Entries 45
Mean 26.74
Std Dev 0
pull1D
Entries 45
Mean 0.05066
Std Dev 0.7328


asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.048e+05 / 44
p0 1.986e−11 ± 2.802e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.77 / 44
p0 −44.25 ± 86.57
1500
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −702.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002809
Std Dev 0.8403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2443 / 44
p0 58.22 ± 0.06121
68
66
64
62
60
58
56
54
52
50
48
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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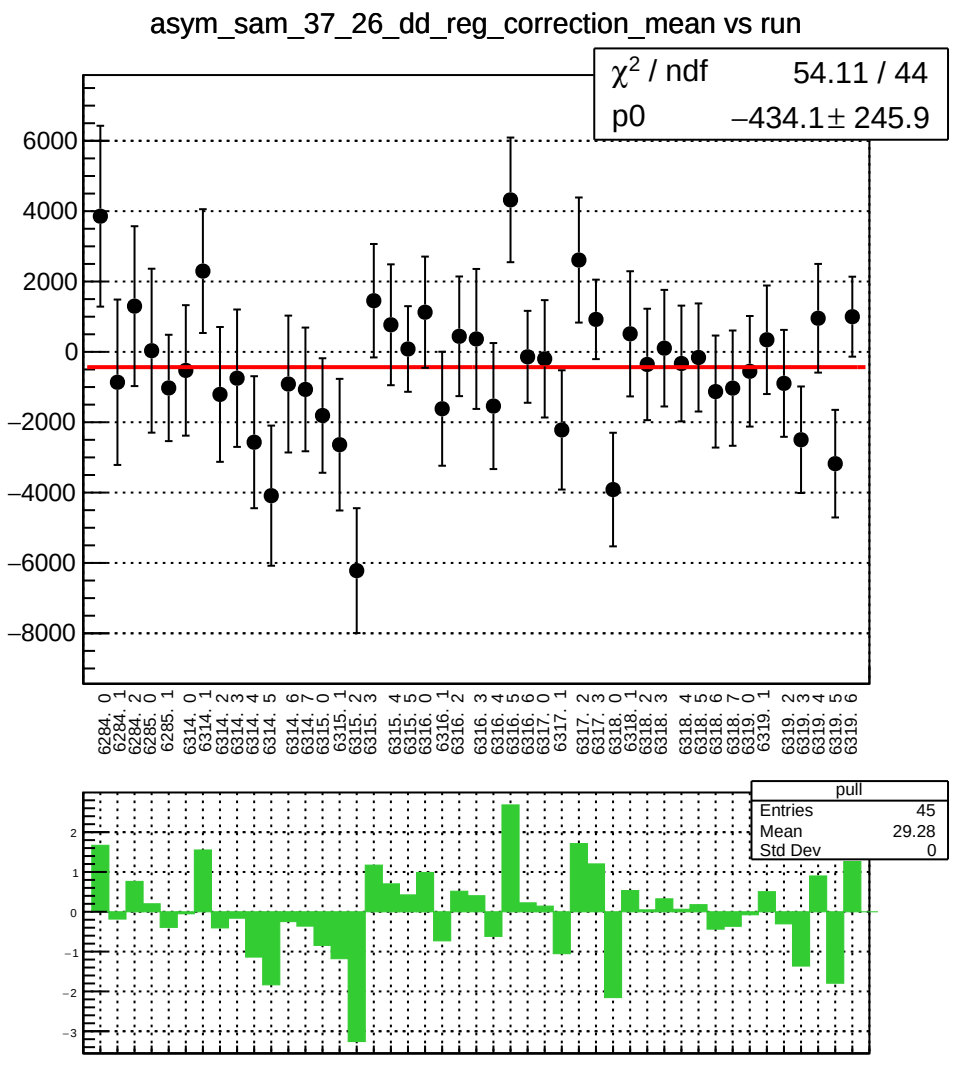
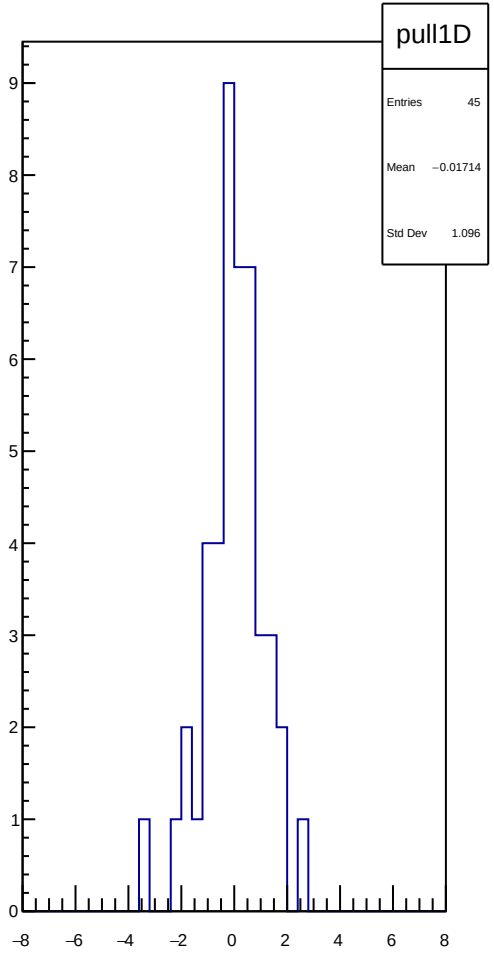
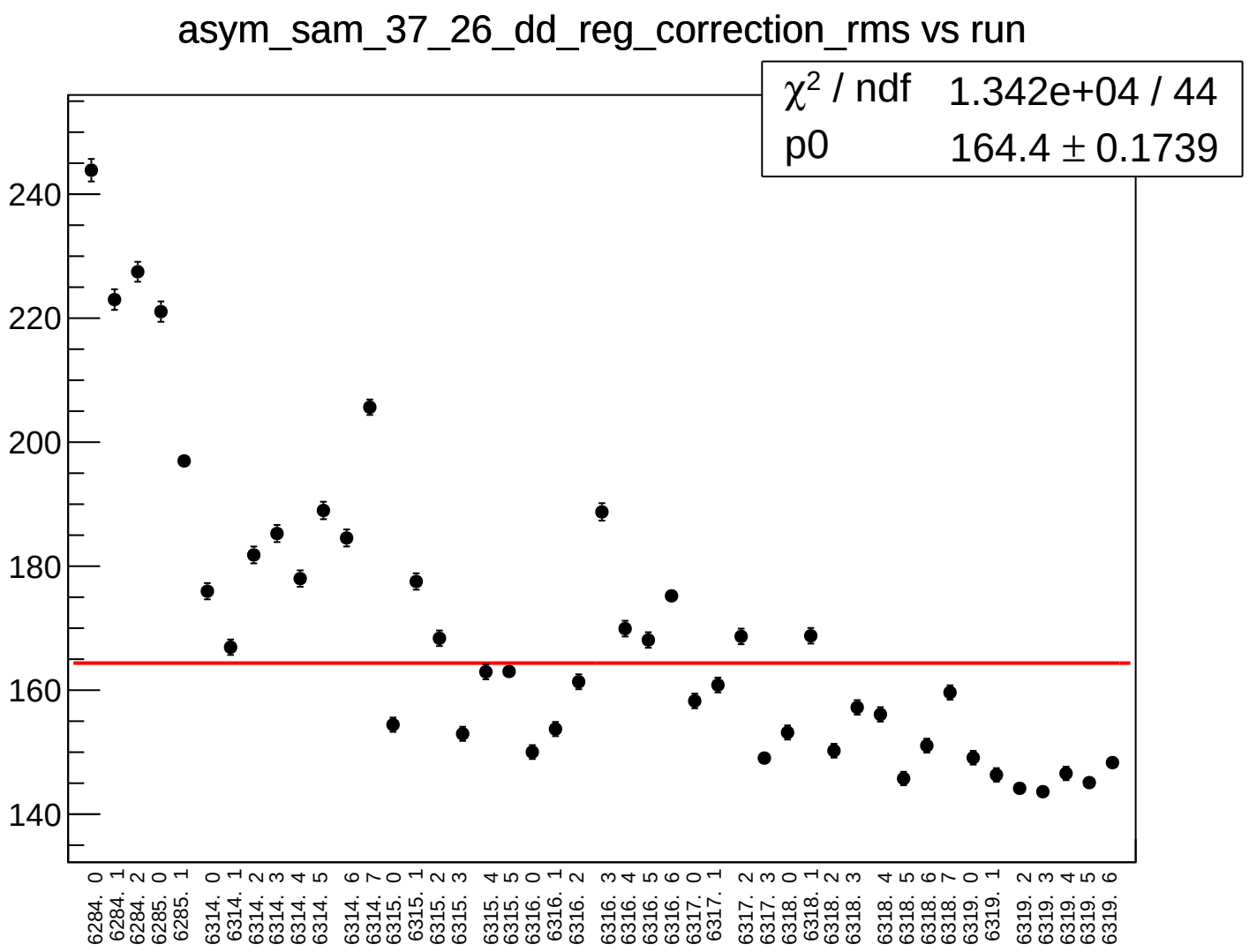
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 54.11 / 44
p0 −434.1± 245.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.28
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01714
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.342e+04 / 44
p0 164.4 ± 0.1739
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
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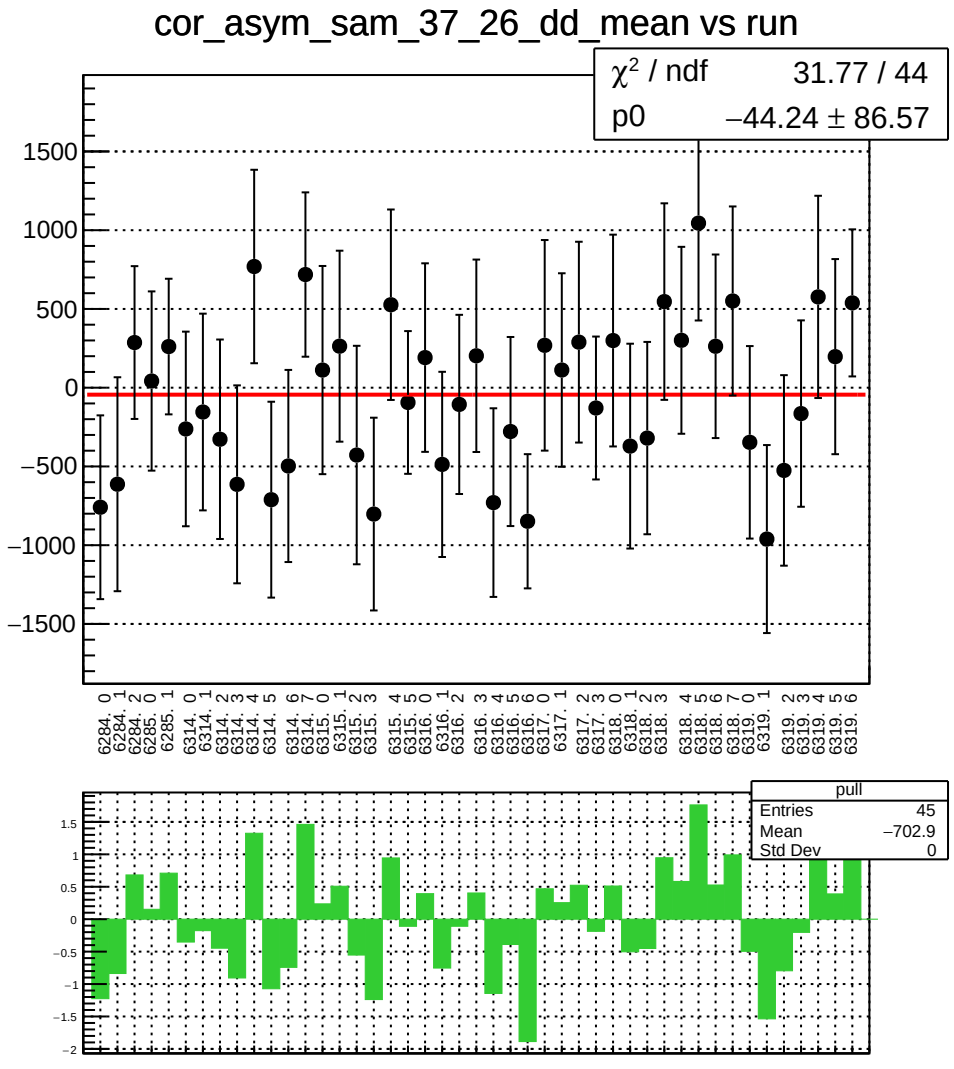
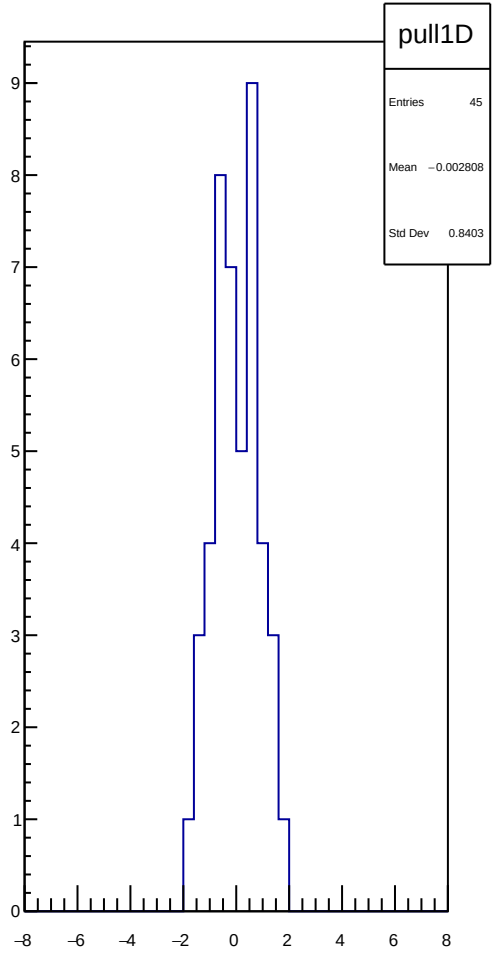
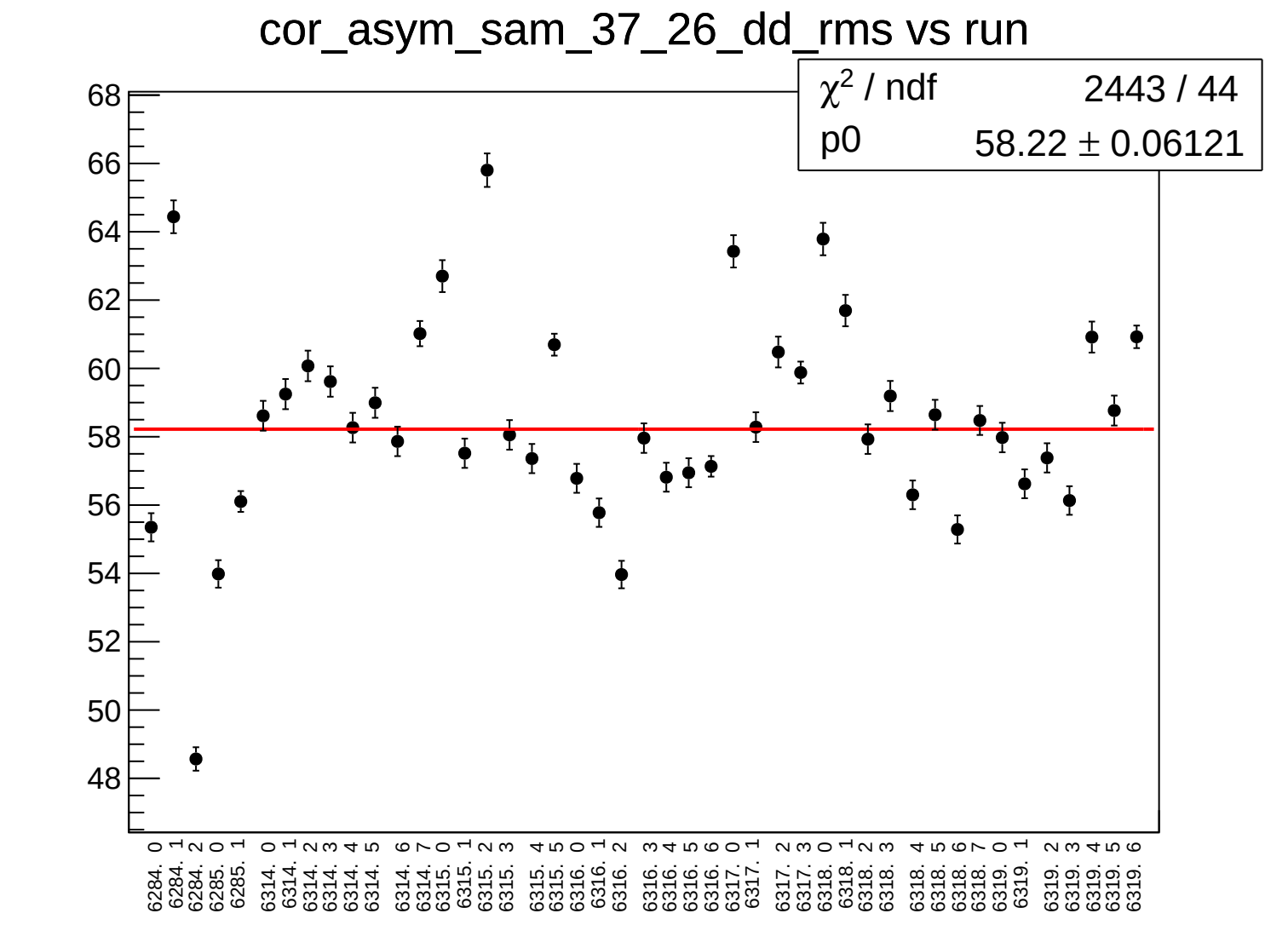
6319. 5
6319. 6


cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.77 / 44
p0 −44.24 ± 86.57
1500
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −702.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002808
Std Dev 0.8403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2443 / 44
p0 58.22 ± 0.06121
68
66
64
62
60
58
56
54
52
50
48
6284. 0
6284. 1
6284. 2
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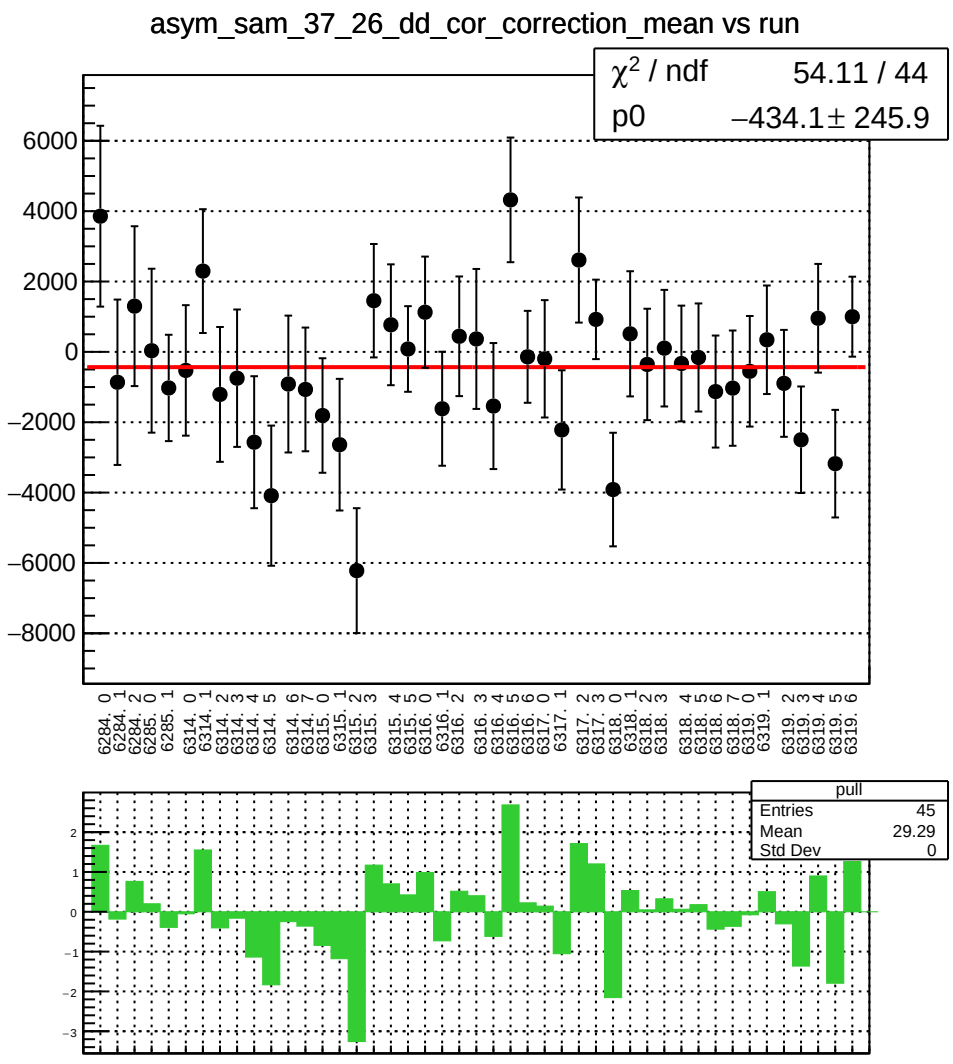
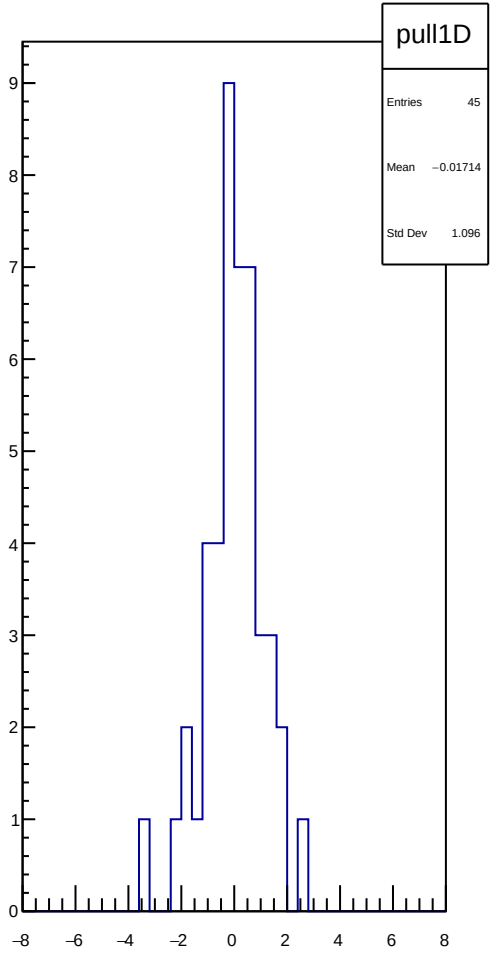
6319. 6


asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 54.11 / 44
p0 −434.1± 245.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.29
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01714
Std Dev 1.096
9
8
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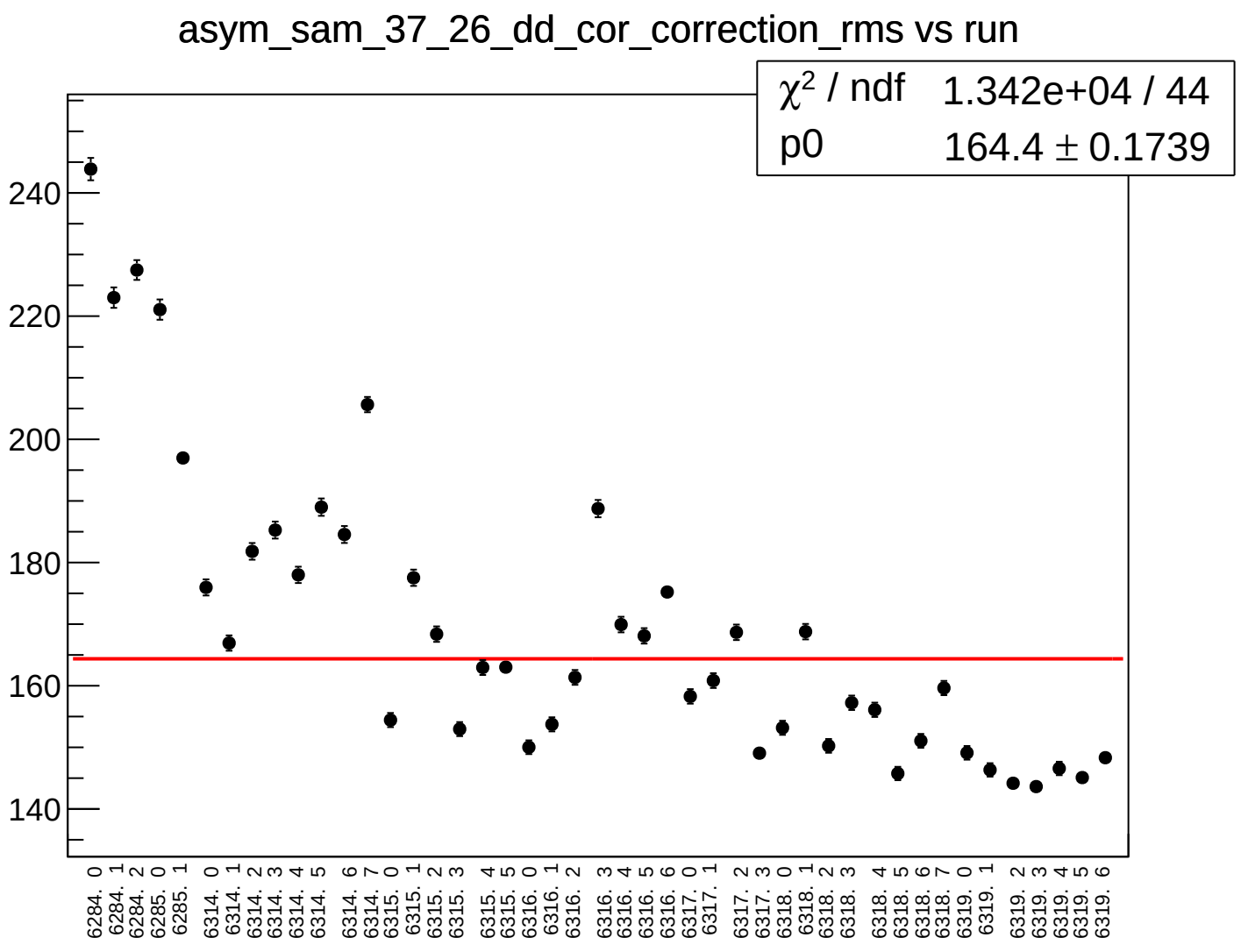
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.342e+04 / 44
p0 164.4 ± 0.1739
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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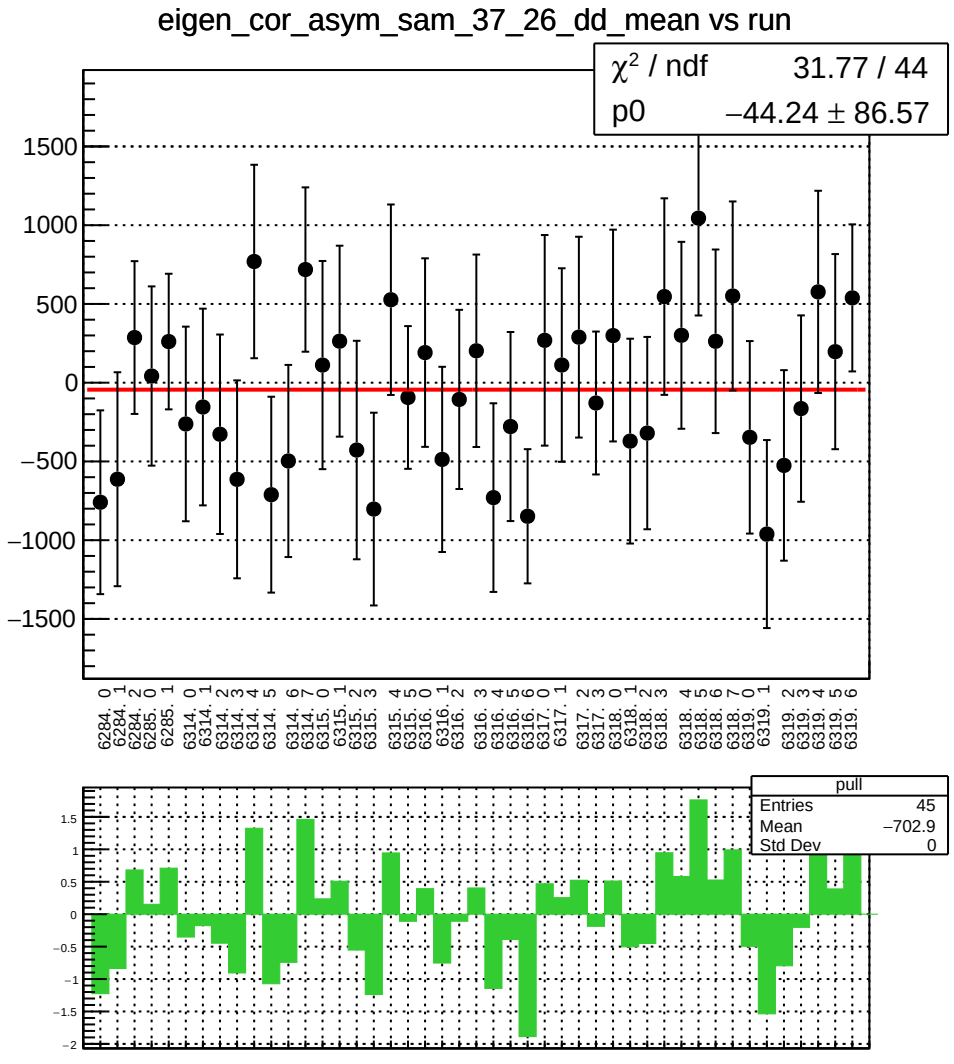
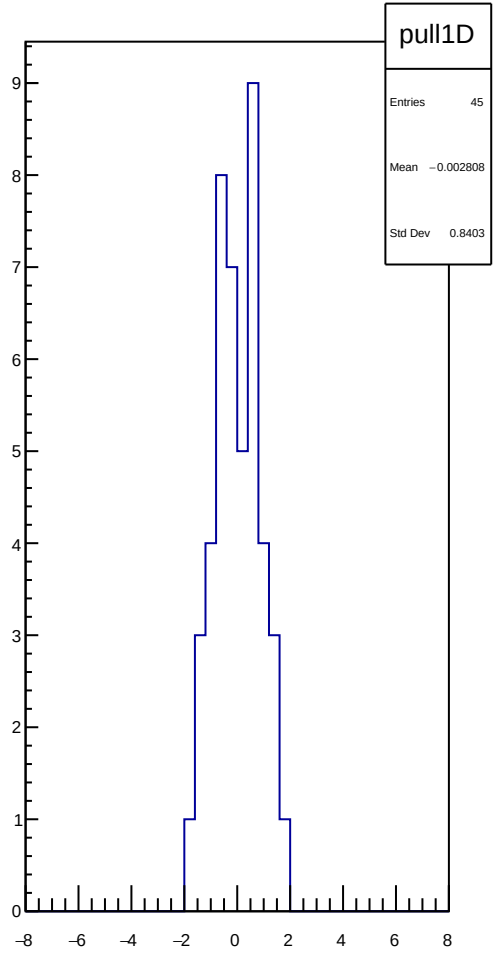
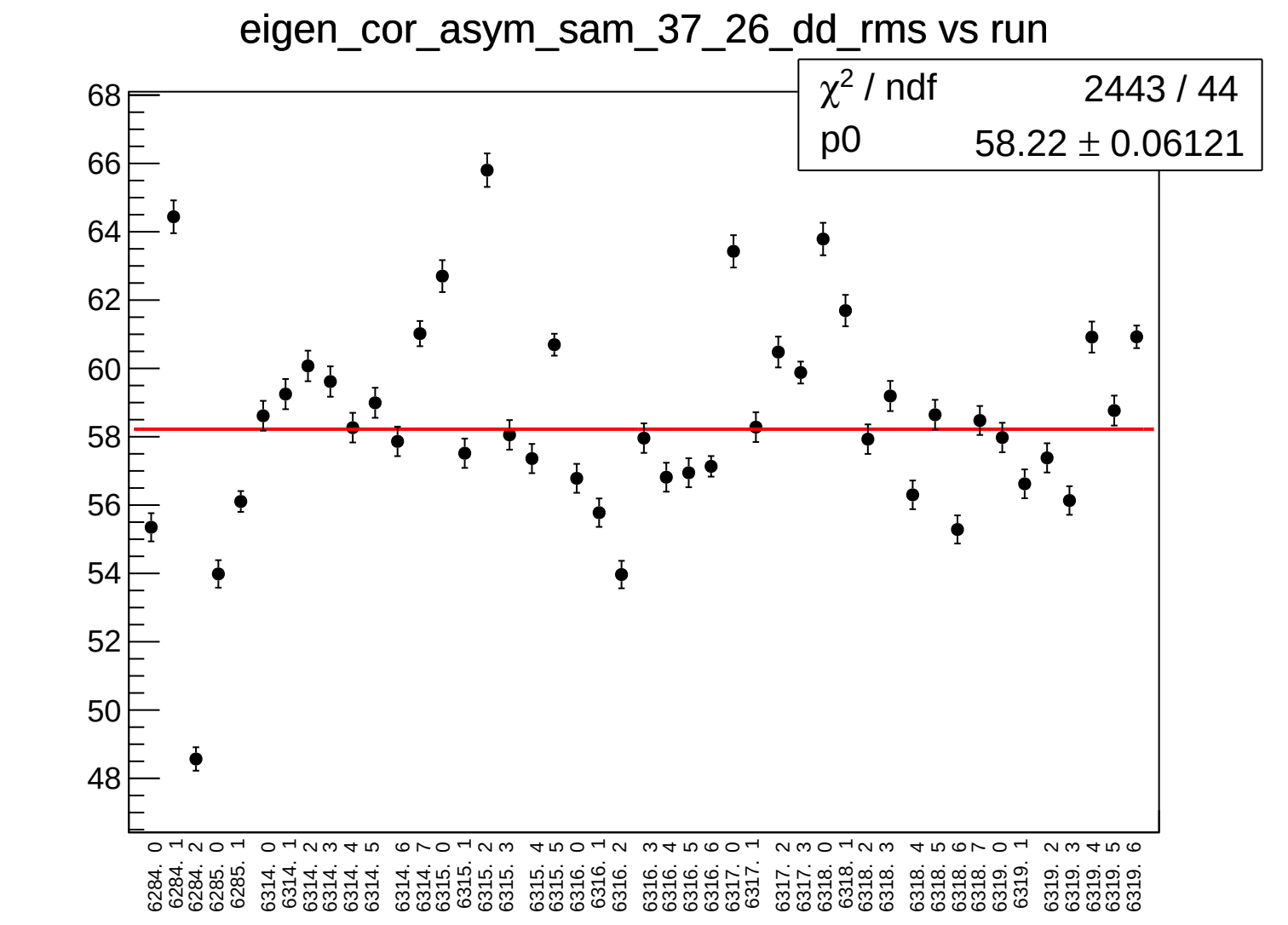
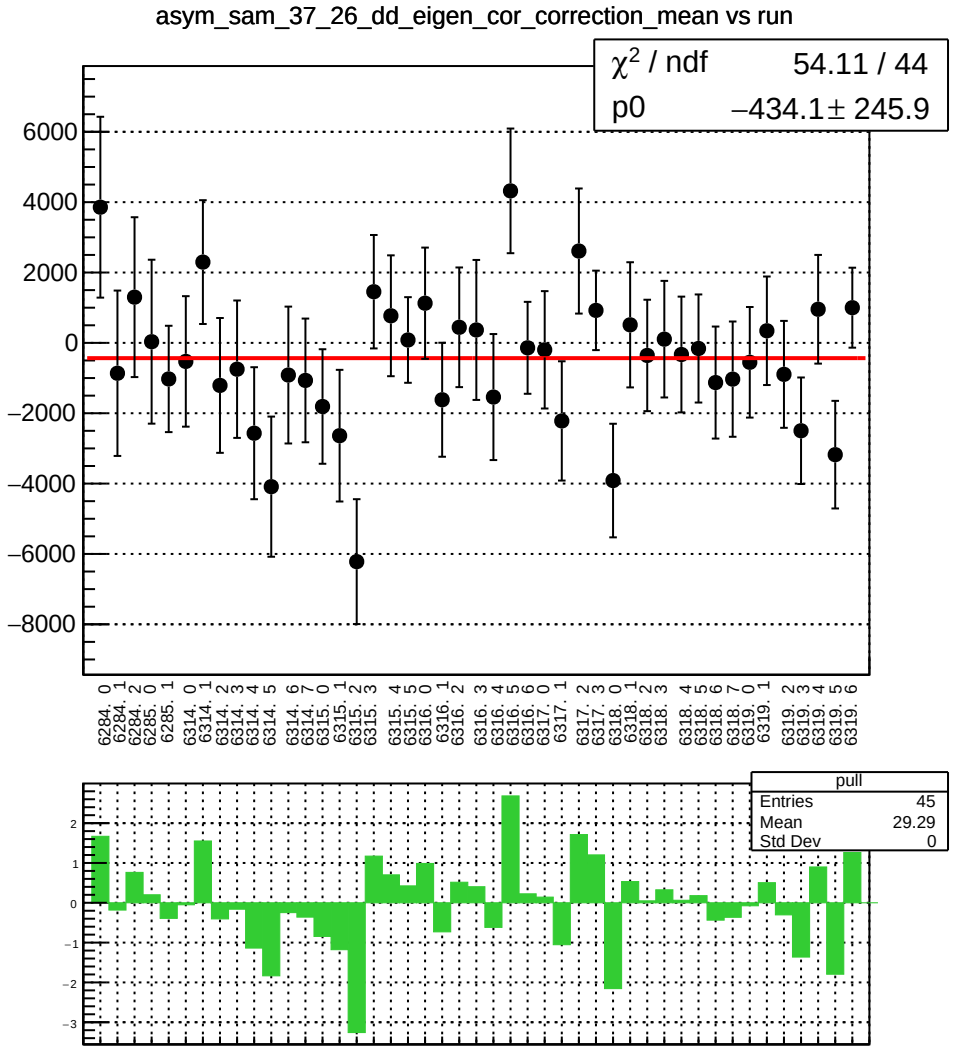
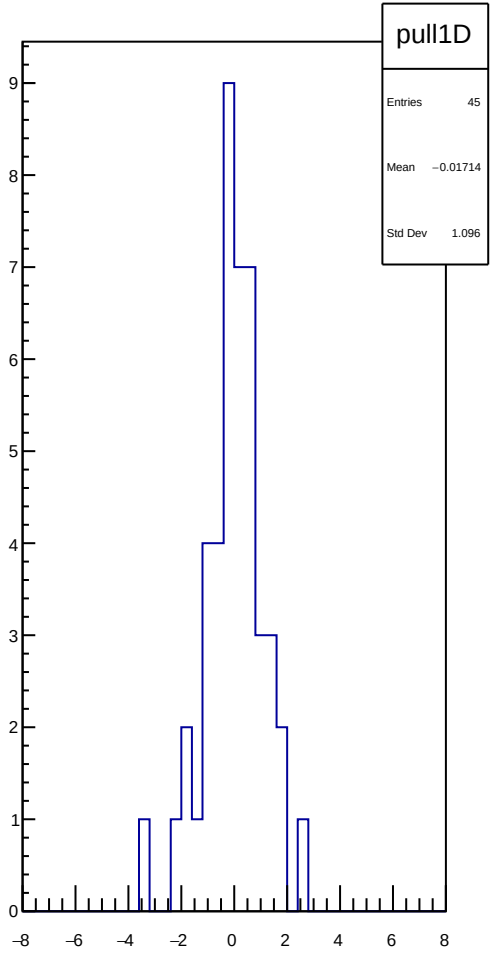
6319. 5
6319. 6

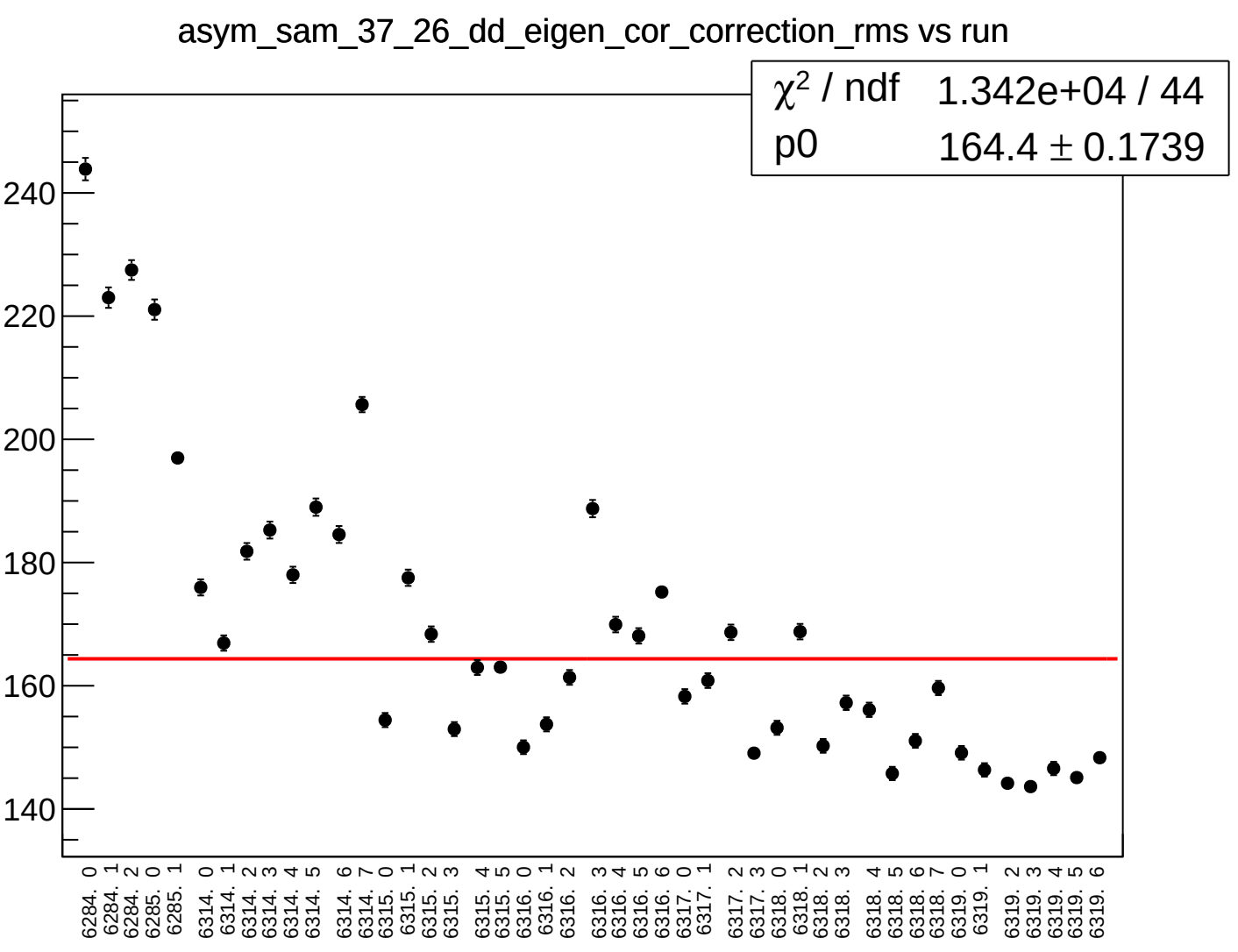

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.77 / 44
p0 −44.24 ± 86.57
1500
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −702.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

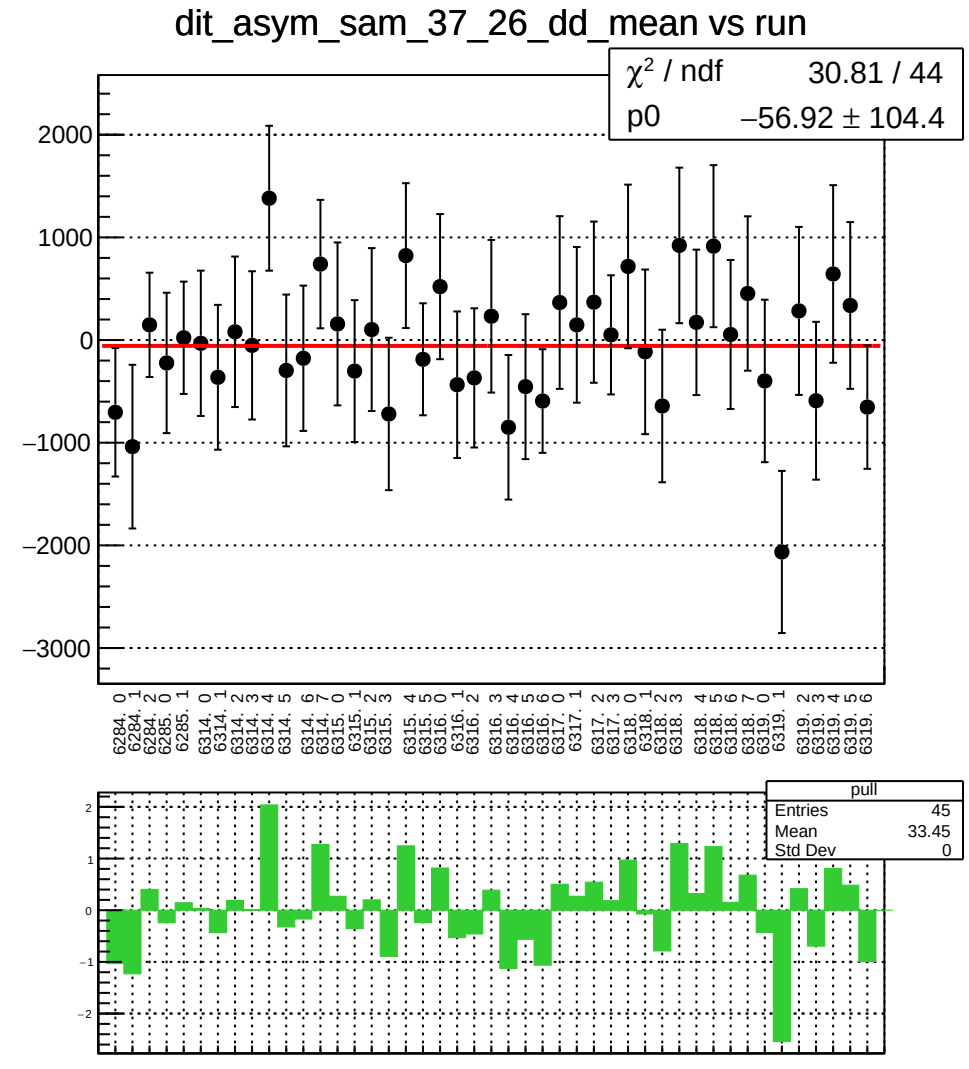

pull1D
Entries 45
Mean −0.002808
Std Dev 0.8403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

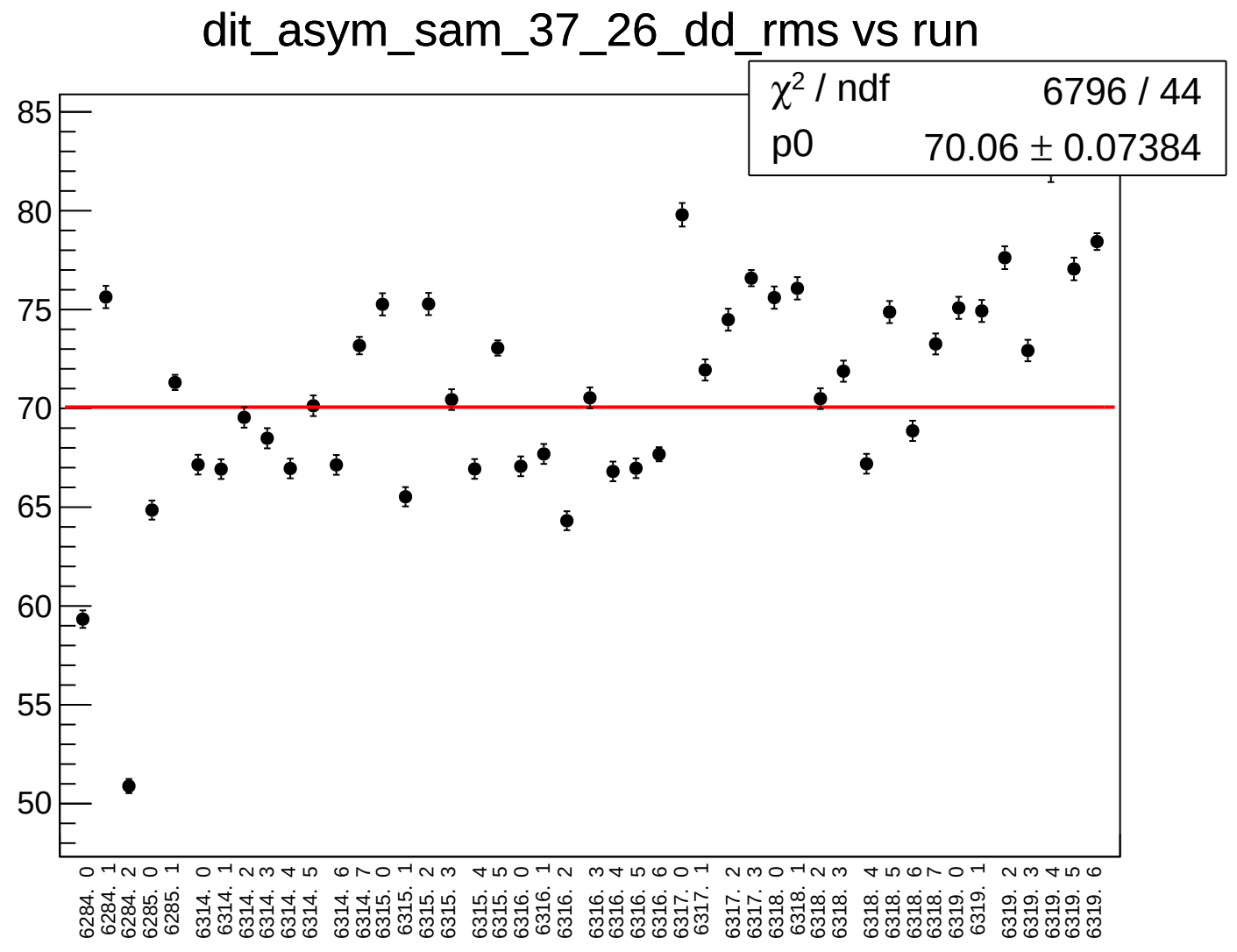

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2443 / 44
p0 58.22 ± 0.06121
68
66
64
62
60
58
56
54
52
50
48
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 54.11 / 44
p0 −434.1± 245.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 29.29
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01714
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.342e+04 / 44
p0 164.4 ± 0.1739
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.81 / 44
p0 −56.92 ± 104.4
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01528
Std Dev 0.8273
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 6796 / 44
p0 70.06 ± 0.07384
85
80
75
70
65
60
55
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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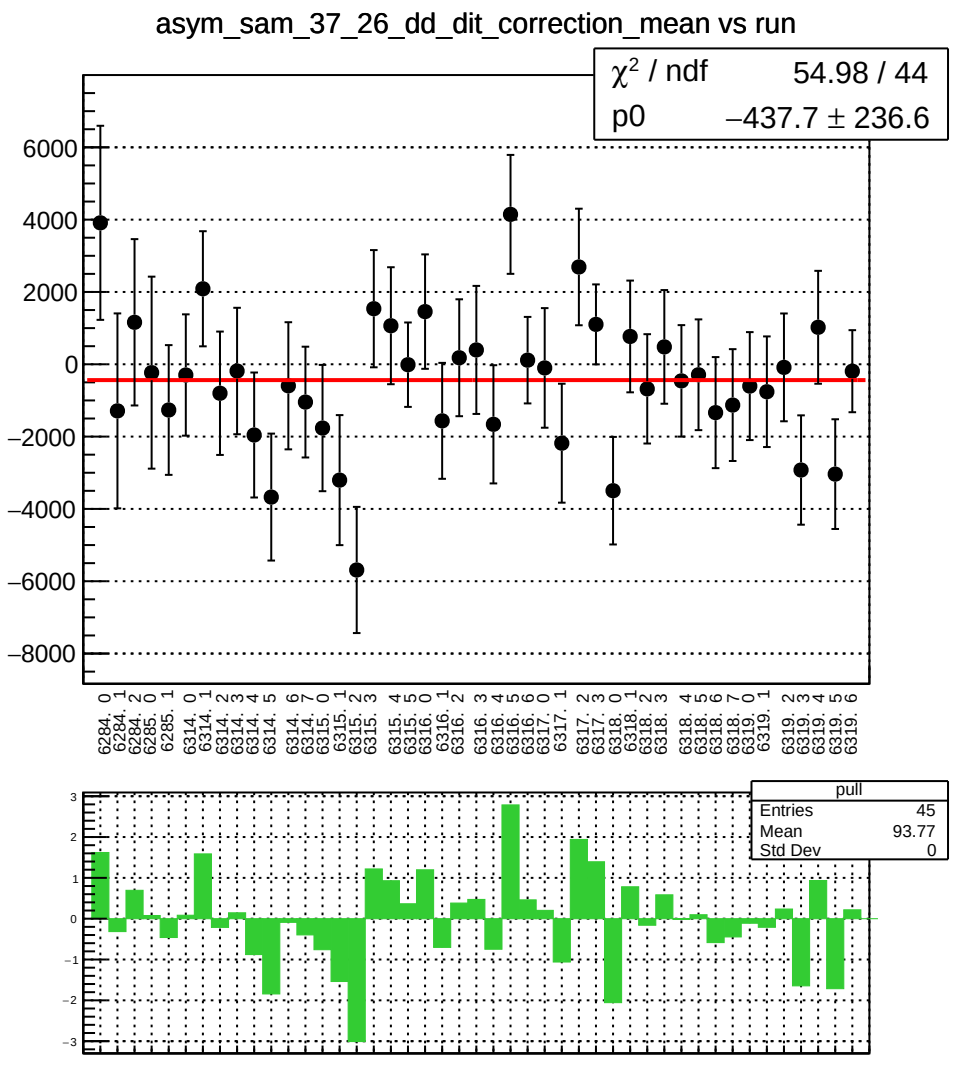
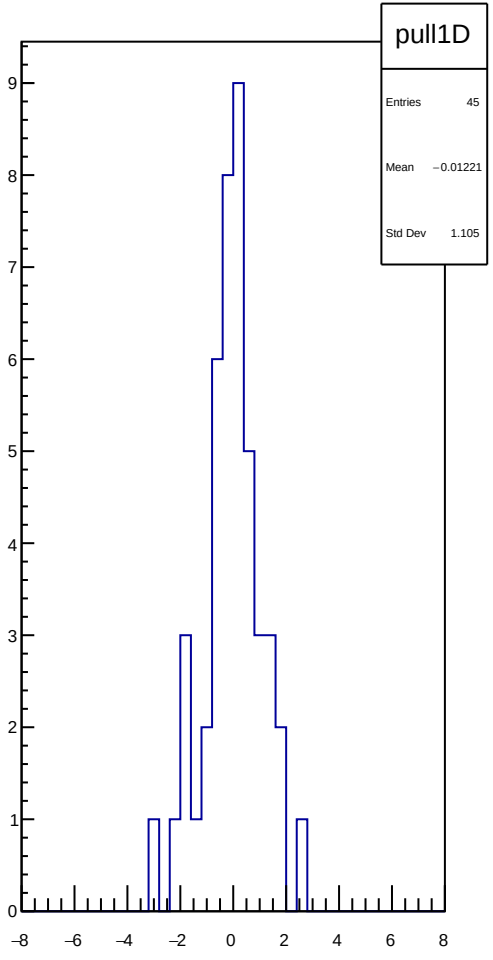
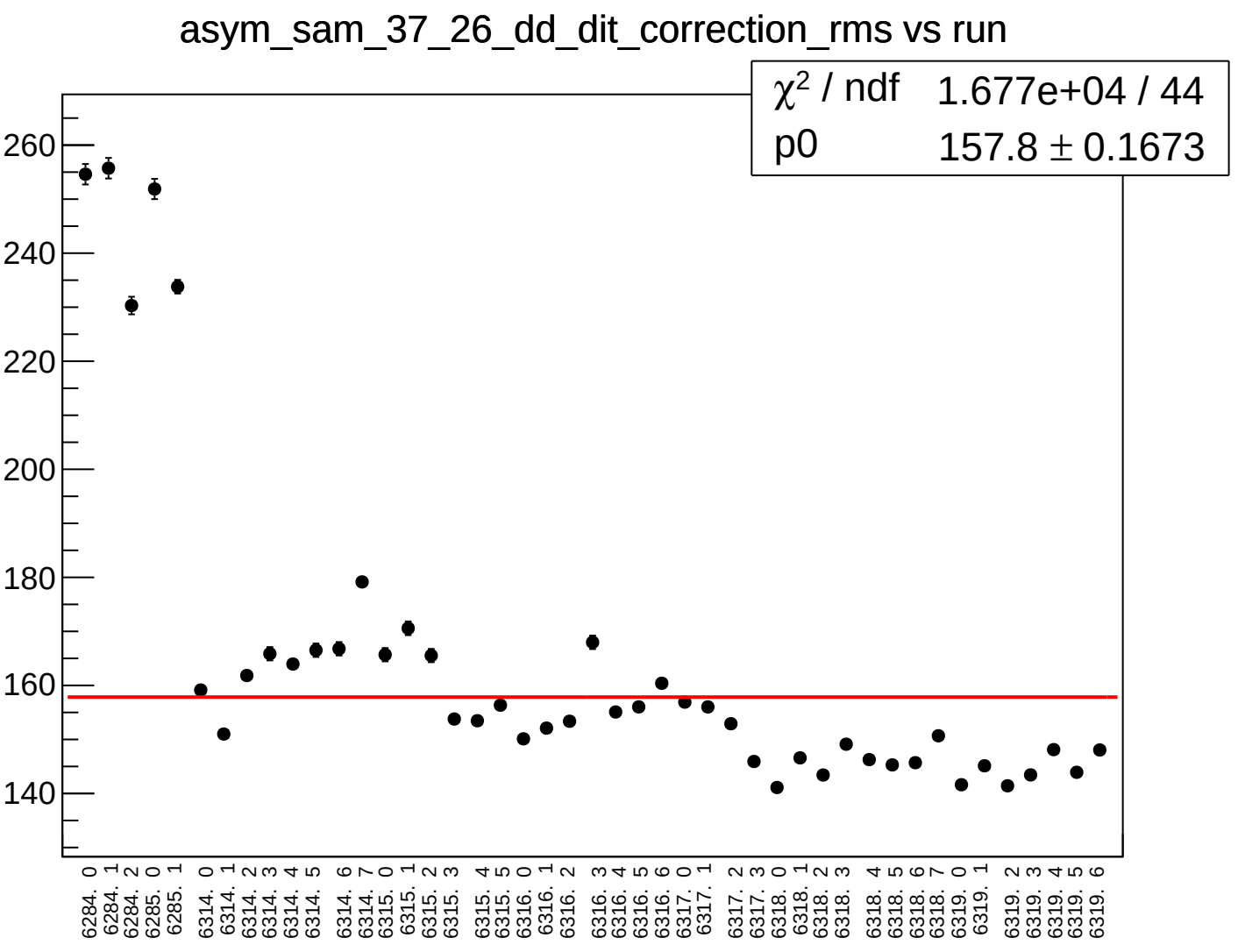
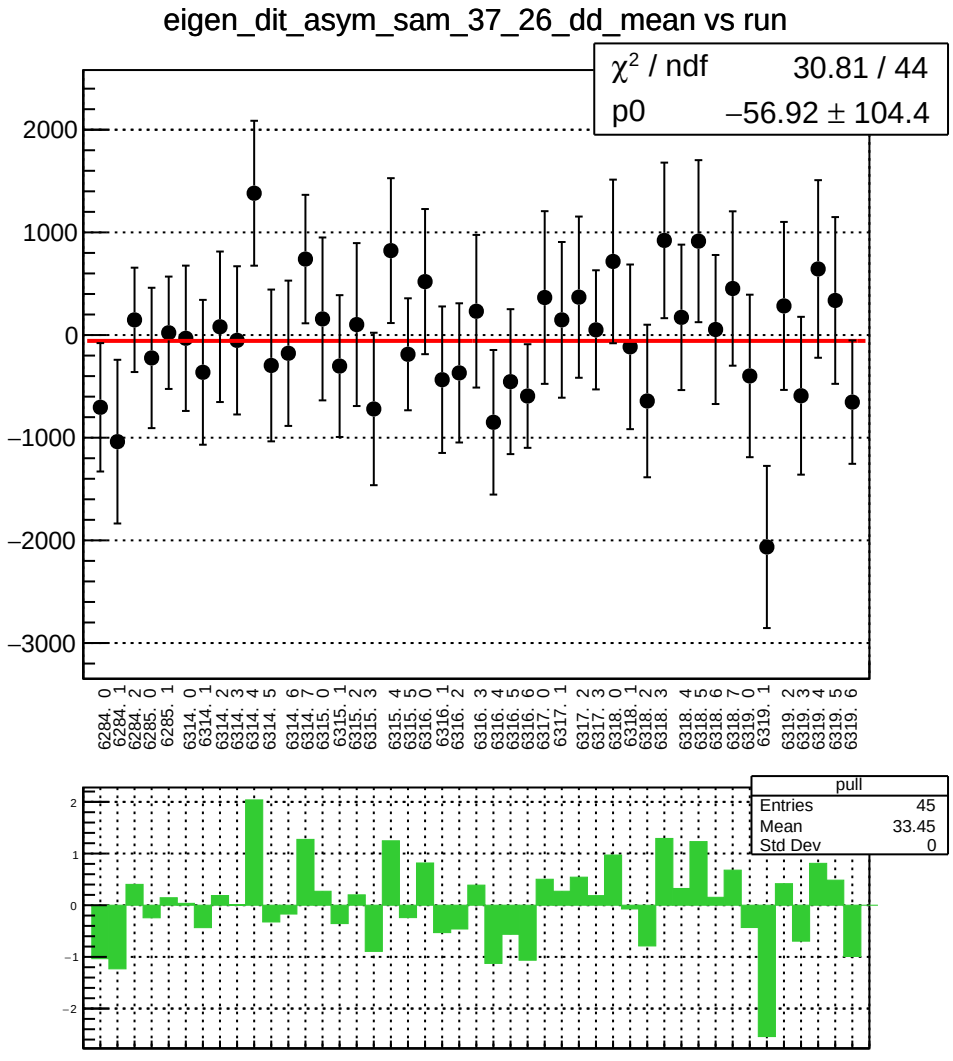
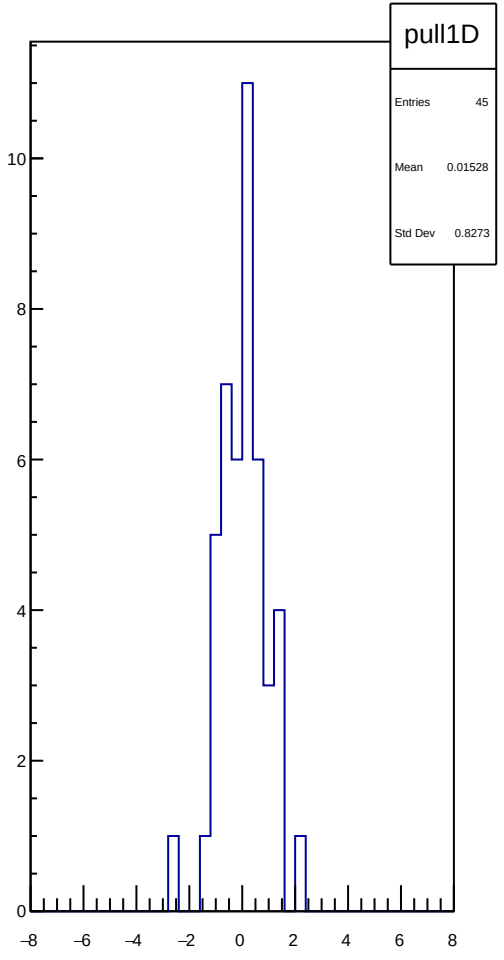
6319. 5
6319. 6

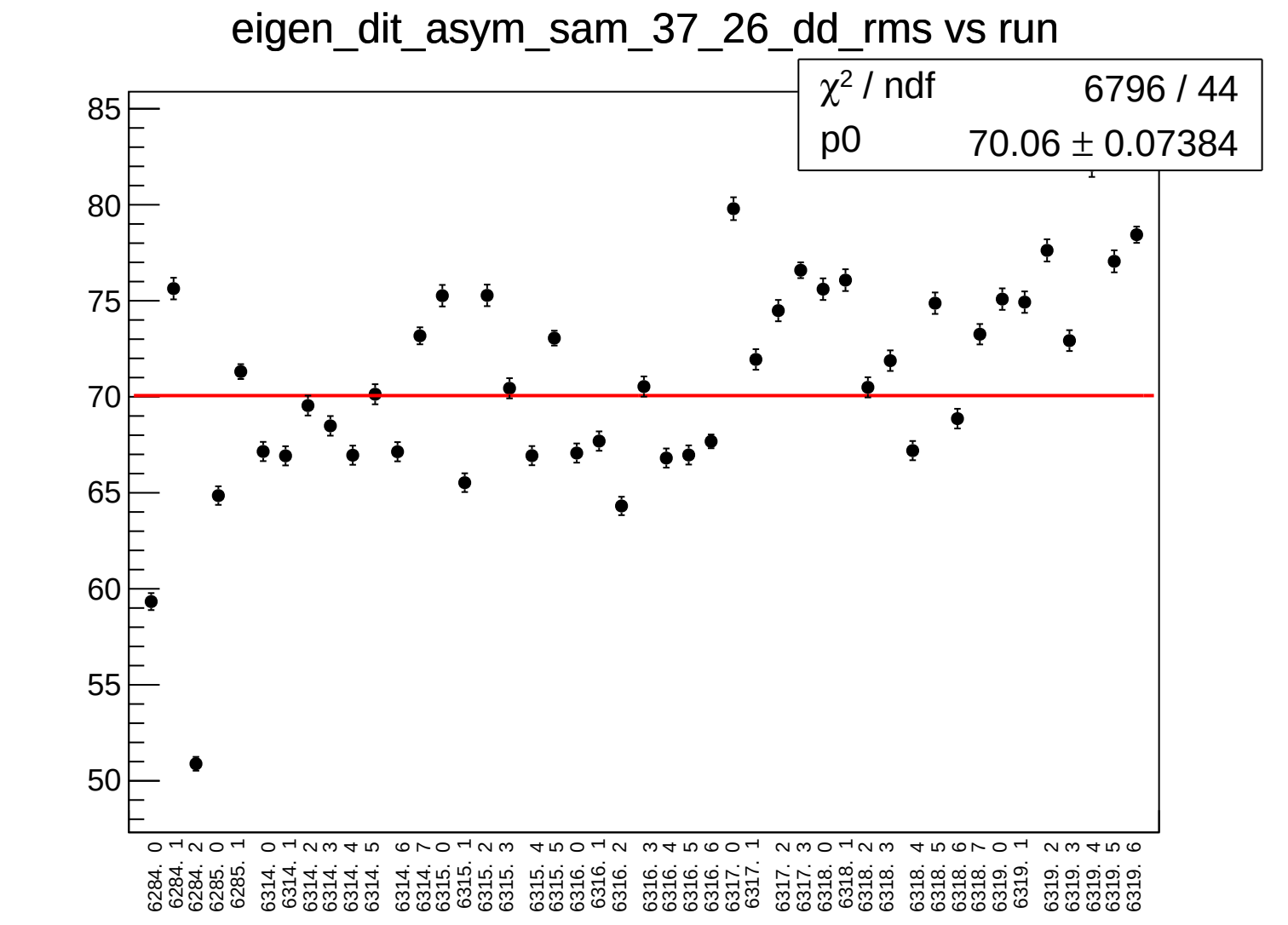

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 54.98 / 44
p0 −437.7 ± 236.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.77
Std Dev 0
3
2
1
0
−1
−2
−3

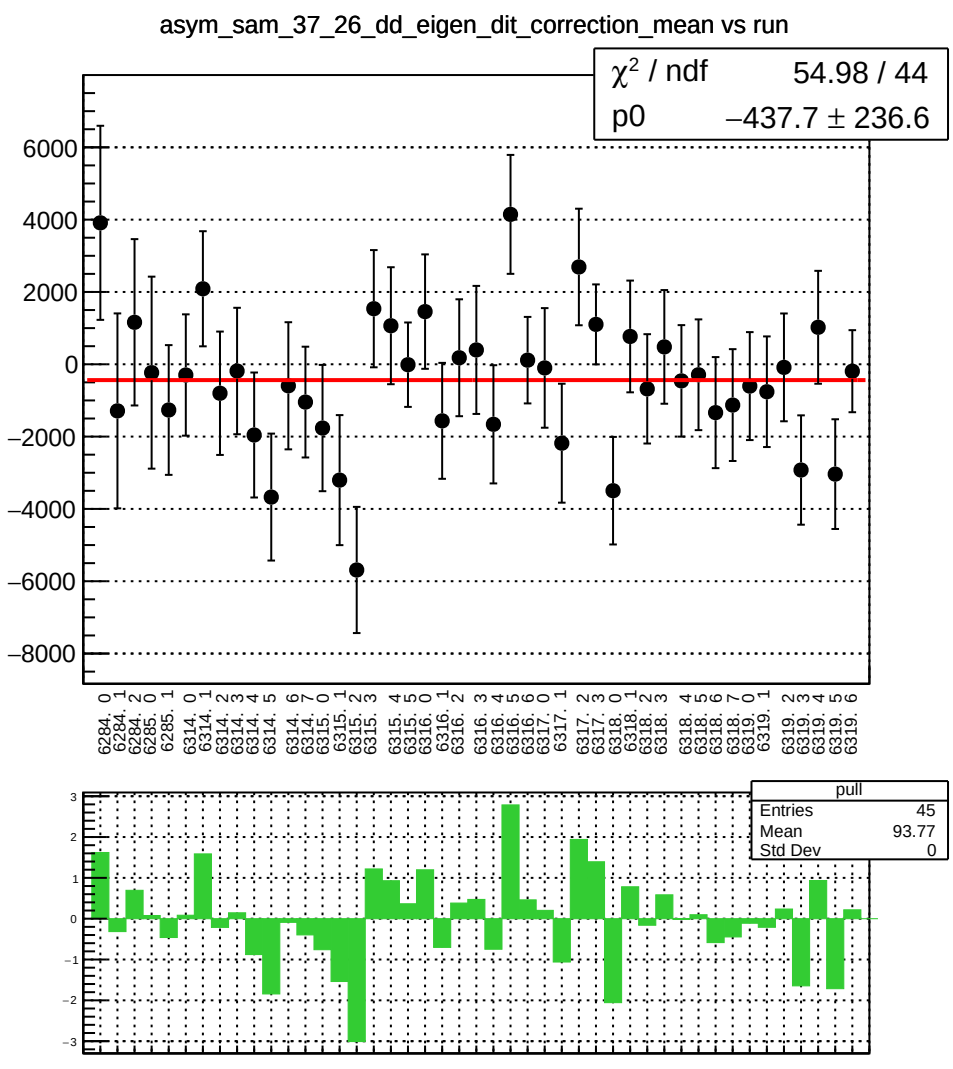

pull1D
Entries 45
Mean −0.01221
Std Dev 1.105
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

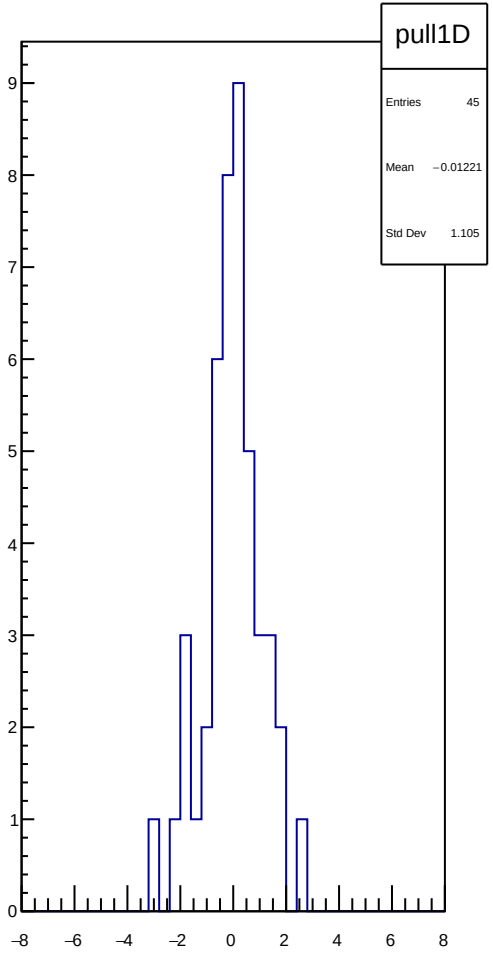

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.677e+04 / 44
p0 157.8 ± 0.1673
260
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

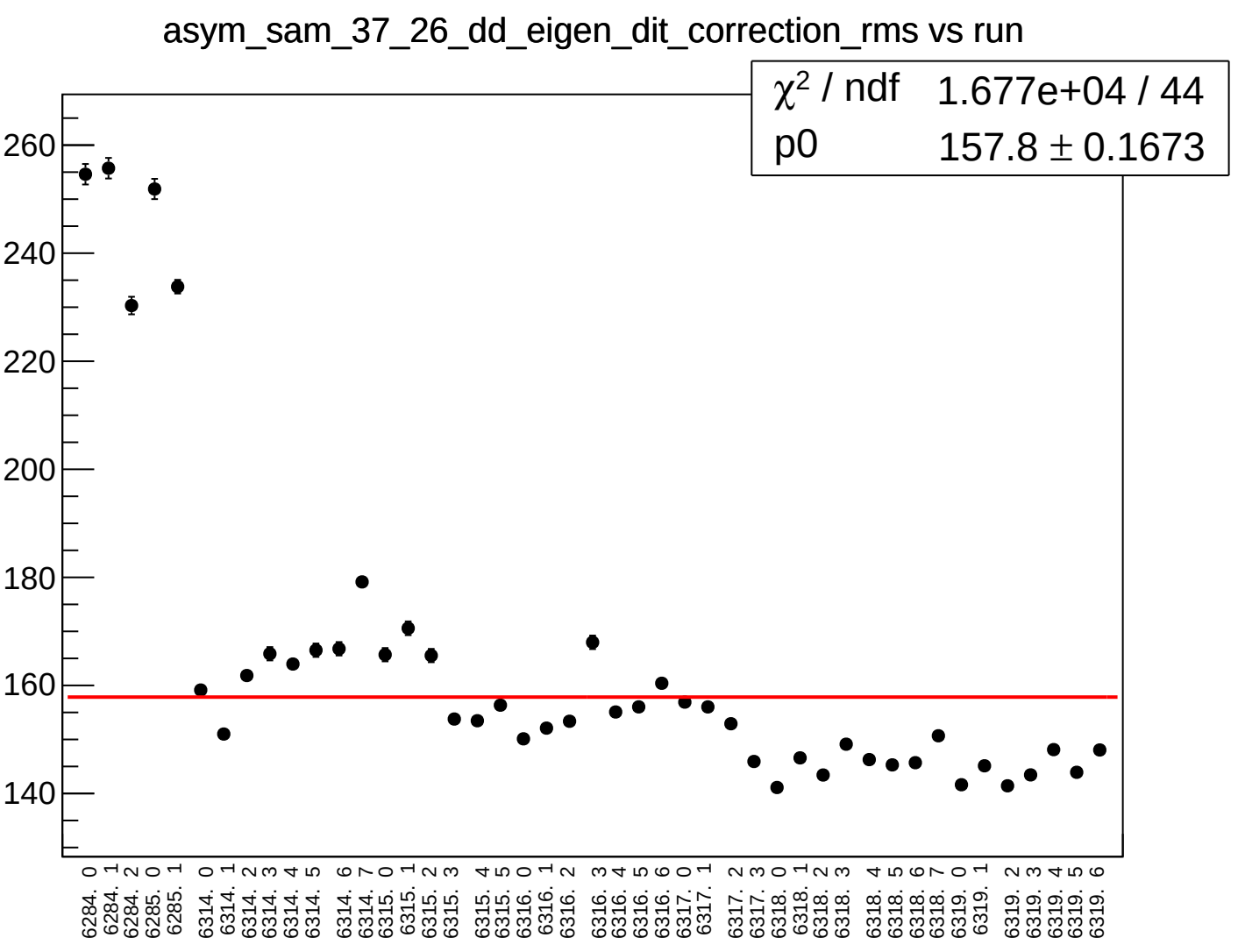

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.81 / 44
p0 −56.92 ± 104.4
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 33.45
Std Dev 0
2
1
0
−1
−2

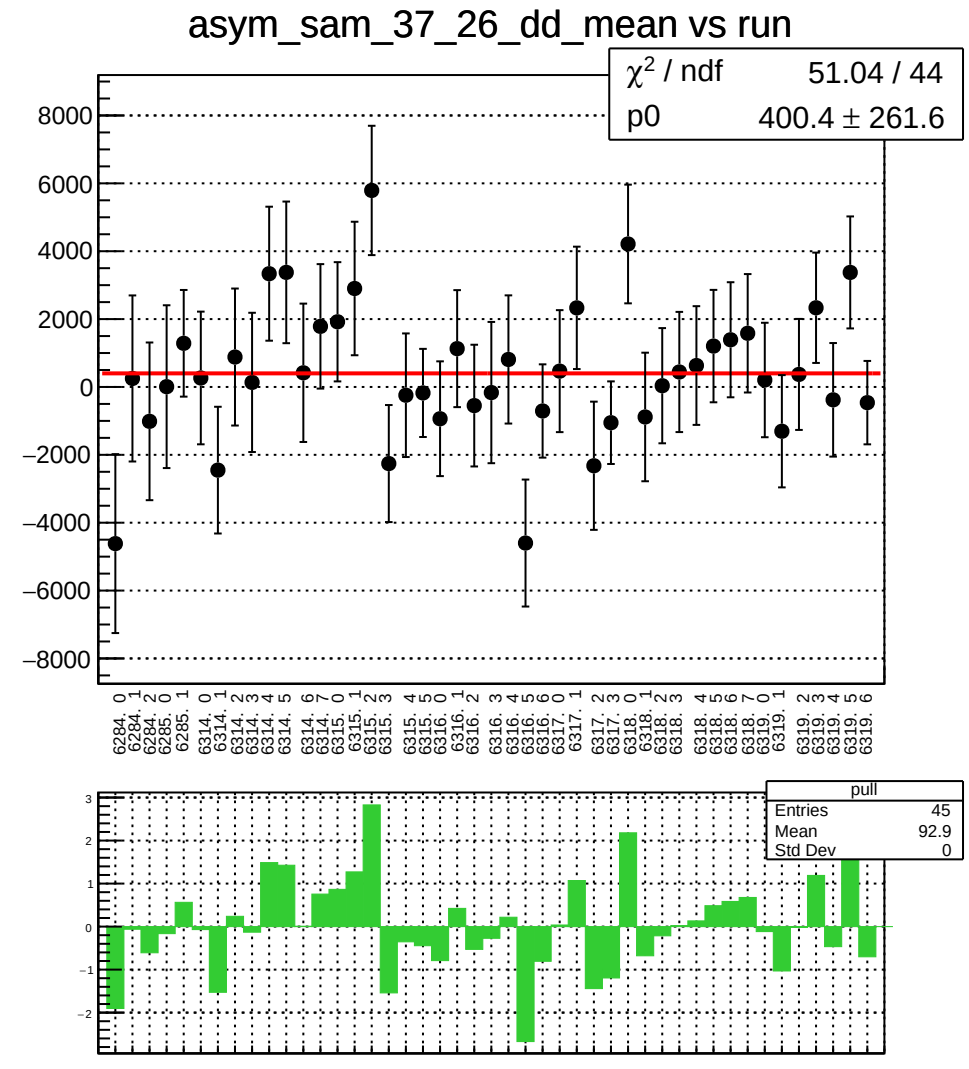

pull1D
Entries 45
Mean 0.01528
Std Dev 0.8273
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 6796 / 44
p0 70.06 ± 0.07384
85
80
75
70
65
60
55
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.98 / 44
p0 −437.7 ± 236.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 93.77
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01221
Std Dev 1.105
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.677e+04 / 44
p0 157.8 ± 0.1673
260
240
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_37_26_dd_mean vs run
χ² / ndf 51.04 / 44
p0 400.4 ± 261.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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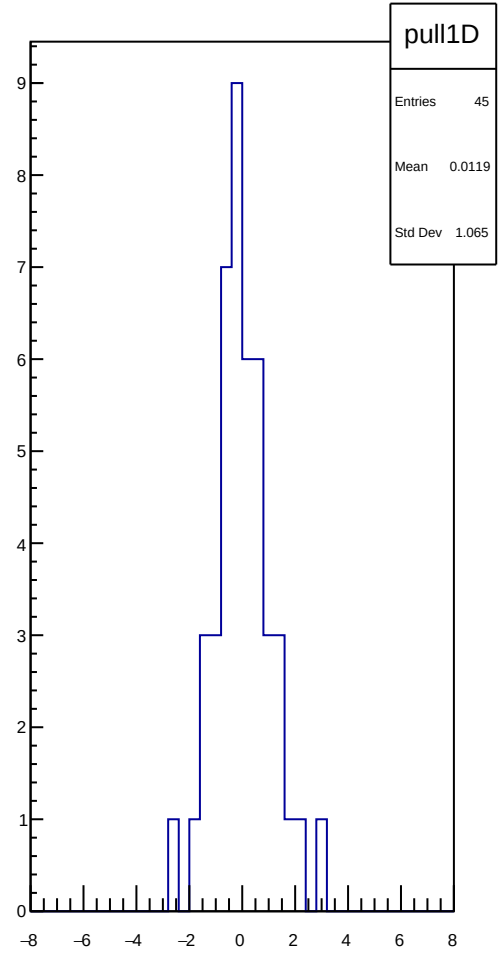
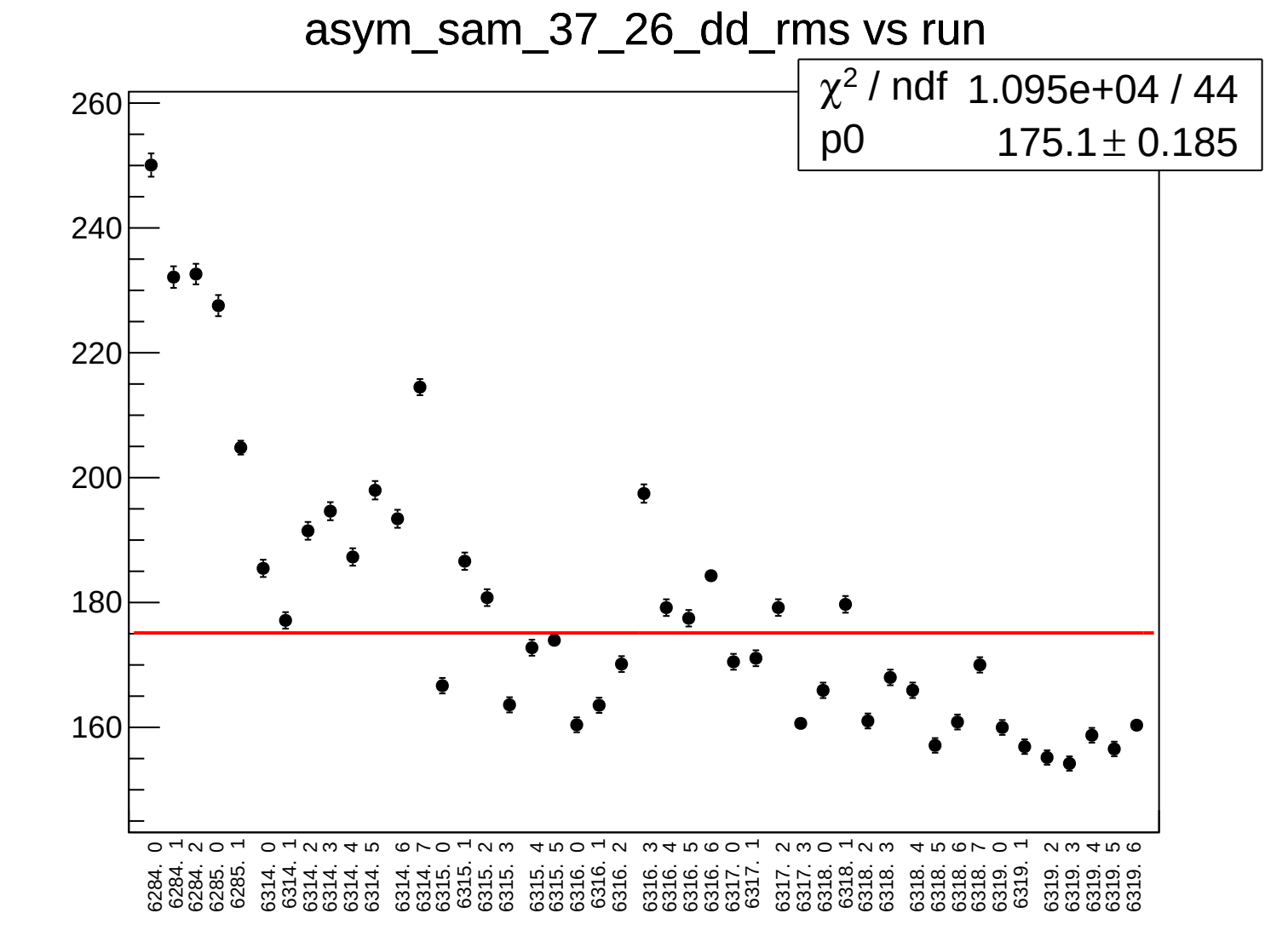
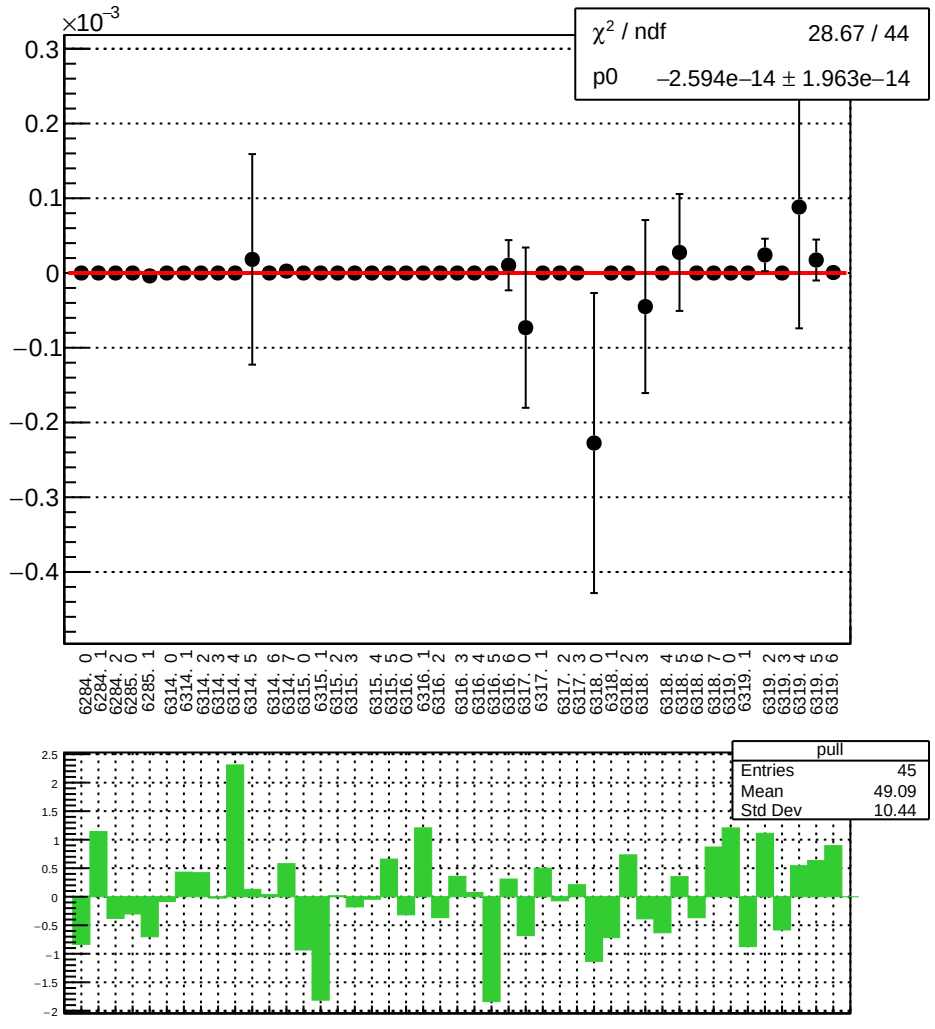
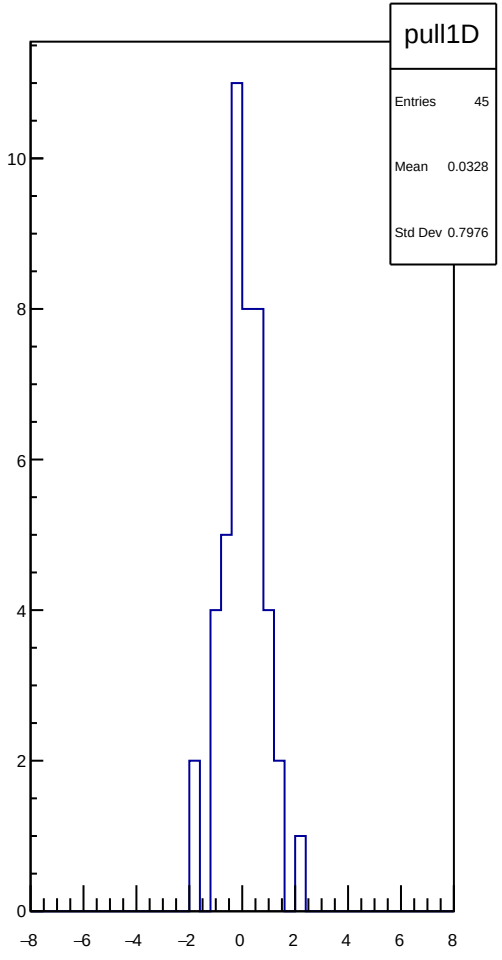
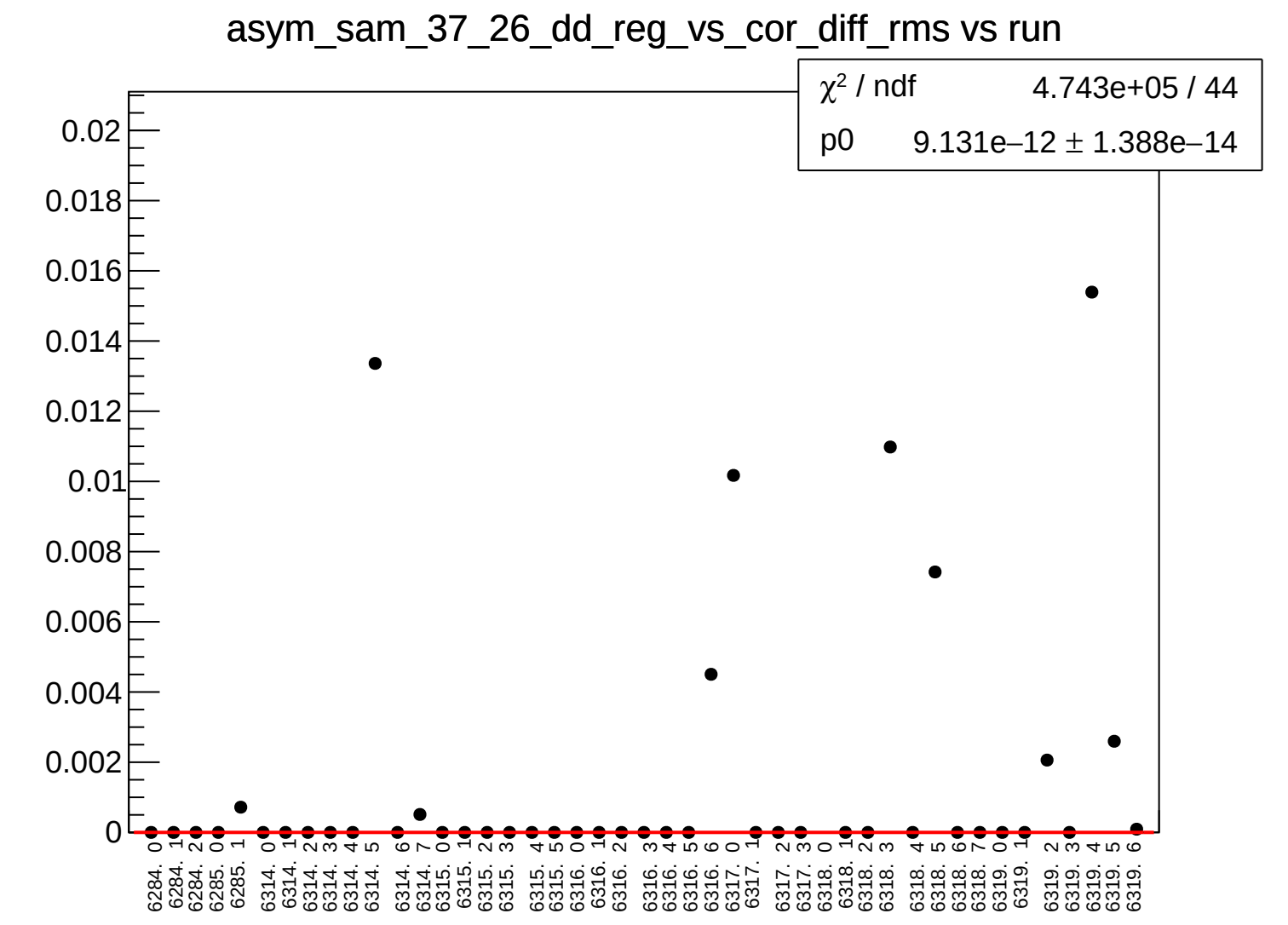
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 92.9
Std Dev 0
3
2
1
0
−1
−2

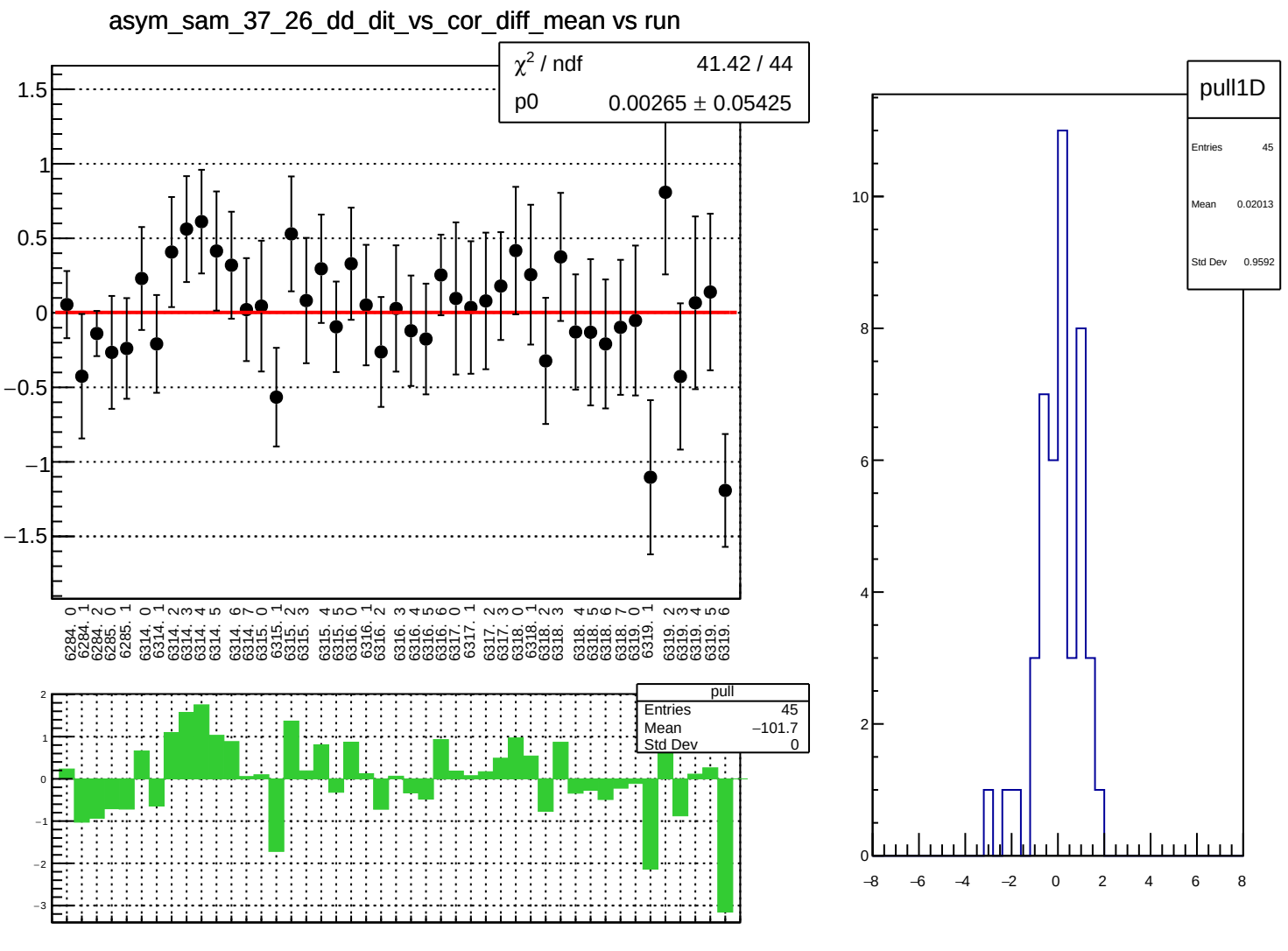

pull1D
Entries 45
Mean 0.0119
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

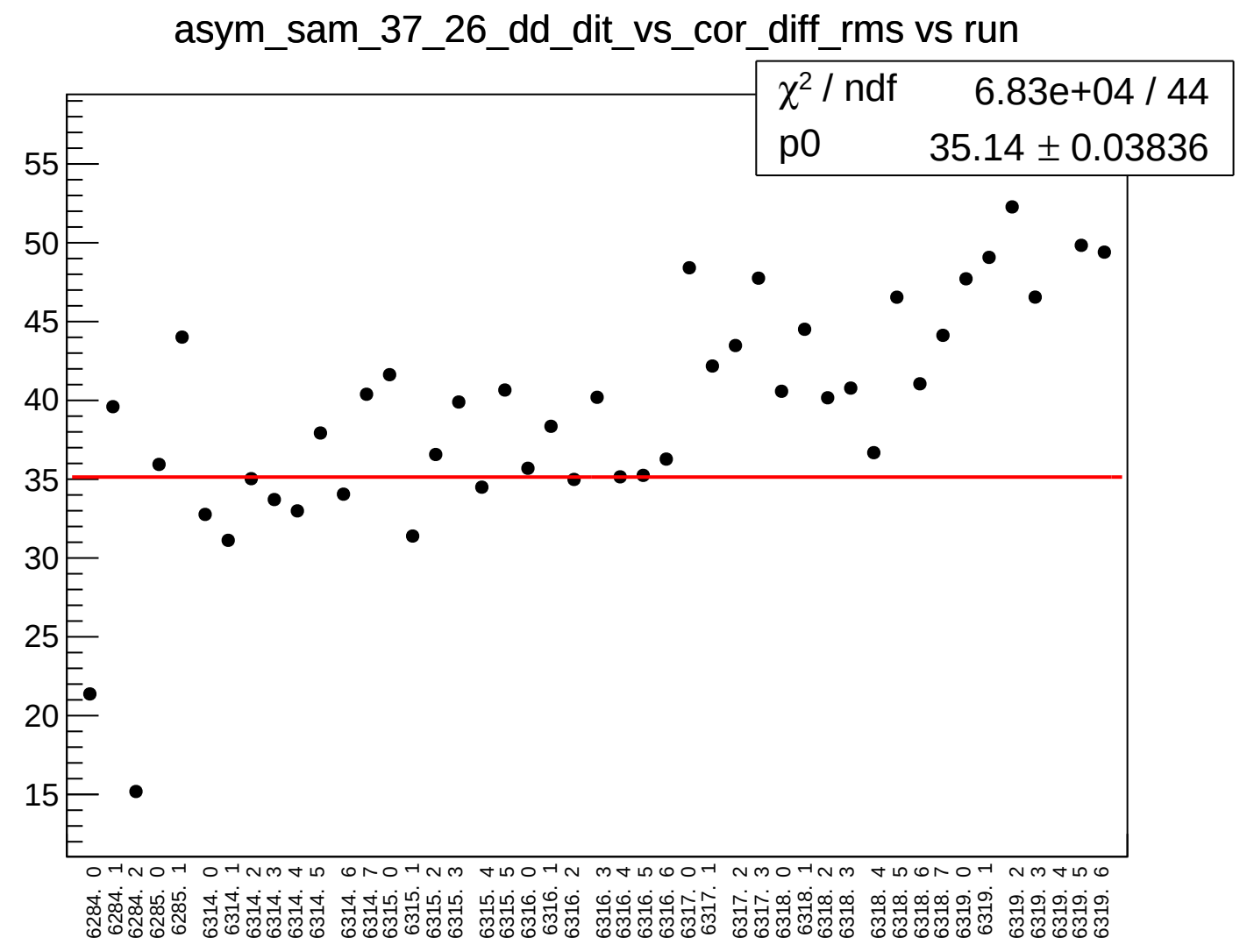

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.095e+04 / 44
p0 175.1 ± 0.185
260
240
220
200
180
160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

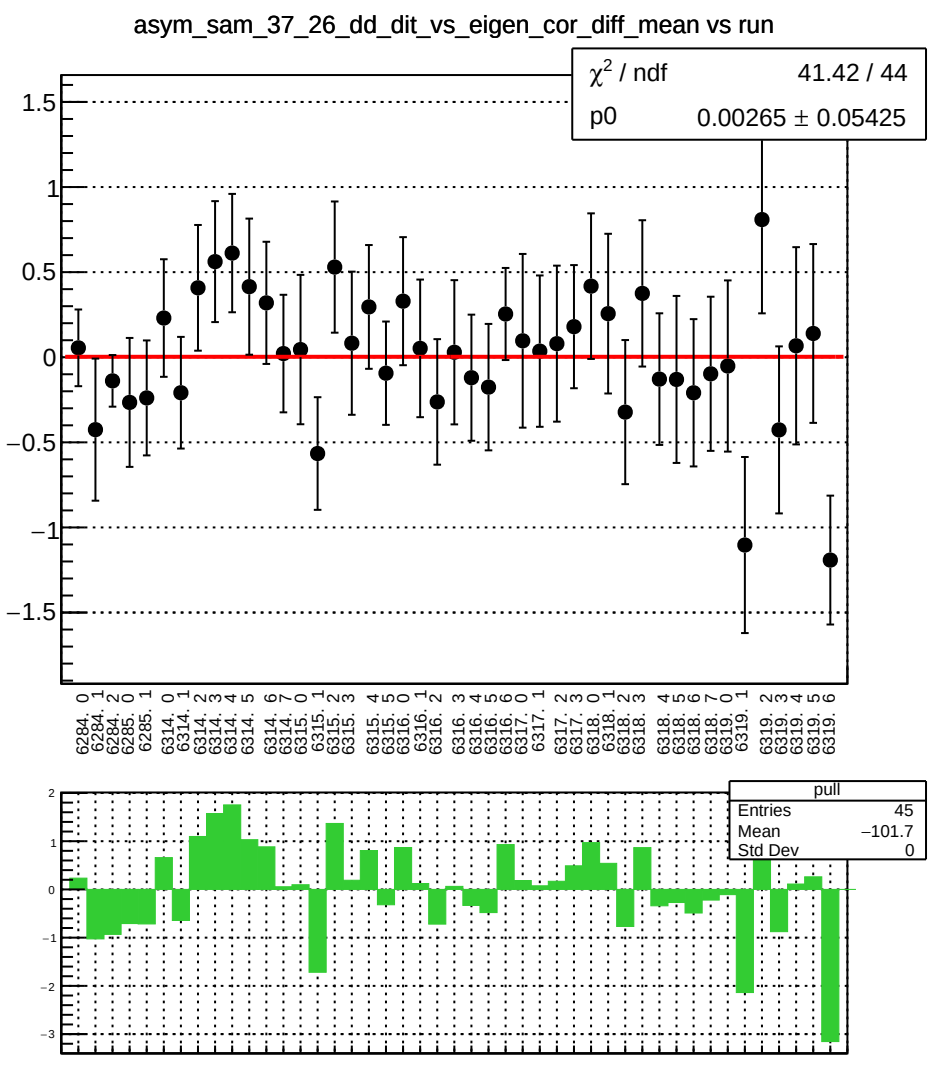

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 28.67 / 44
p0 −2.594e−14 ± 1.963e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 49.09
Std Dev 10.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

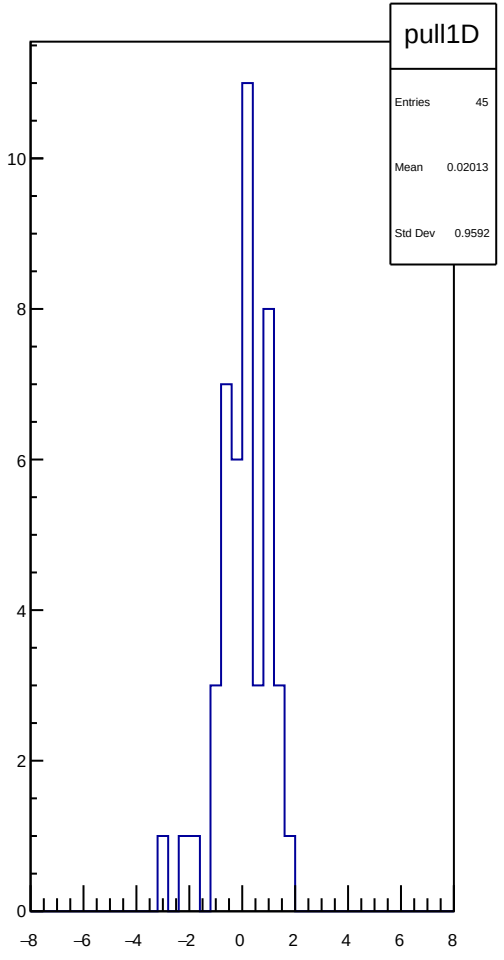

pull1D
Entries 45
Mean 0.0328
Std Dev 0.7976
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

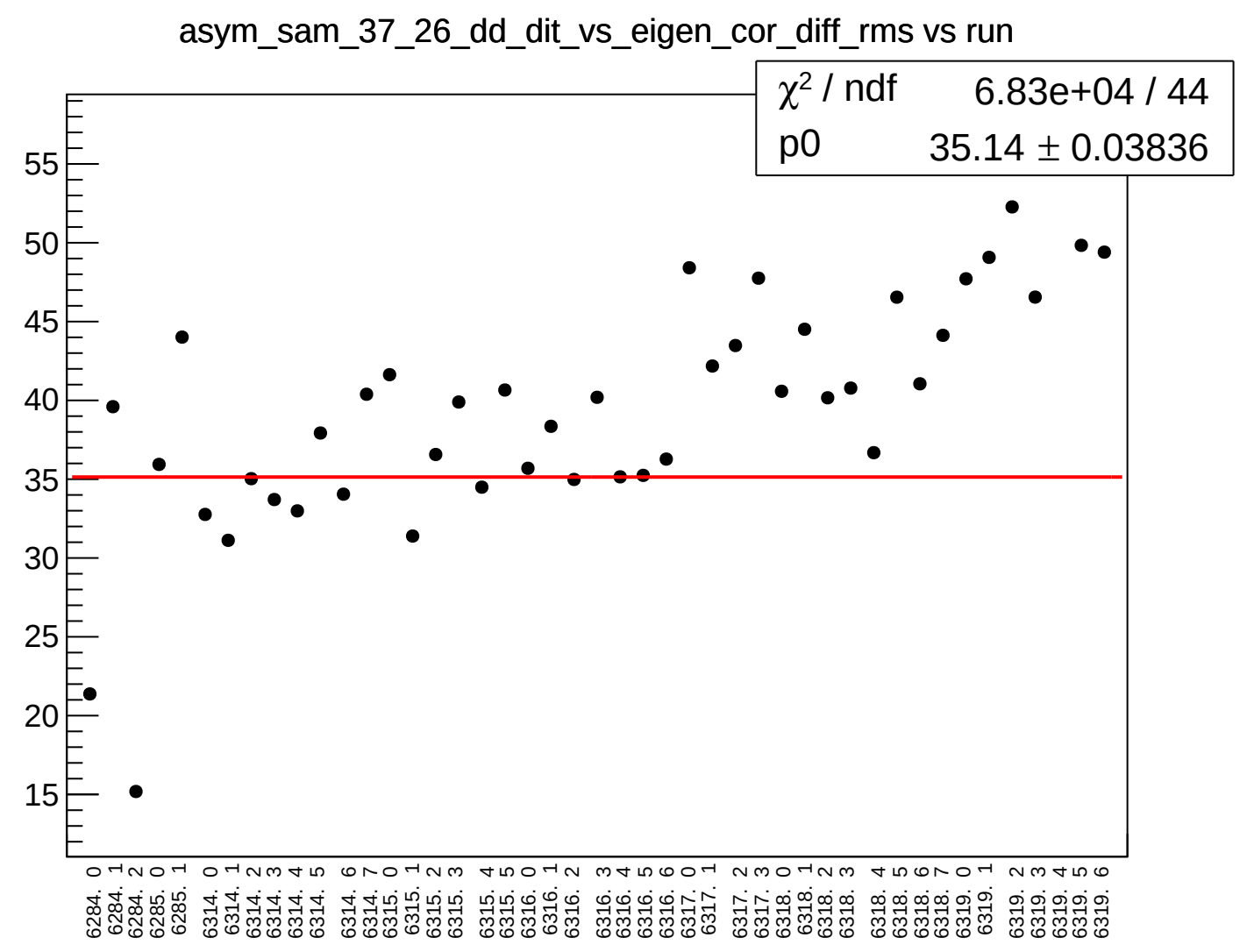

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.743e+05 / 44
p0 9.131e−12 ± 1.388e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

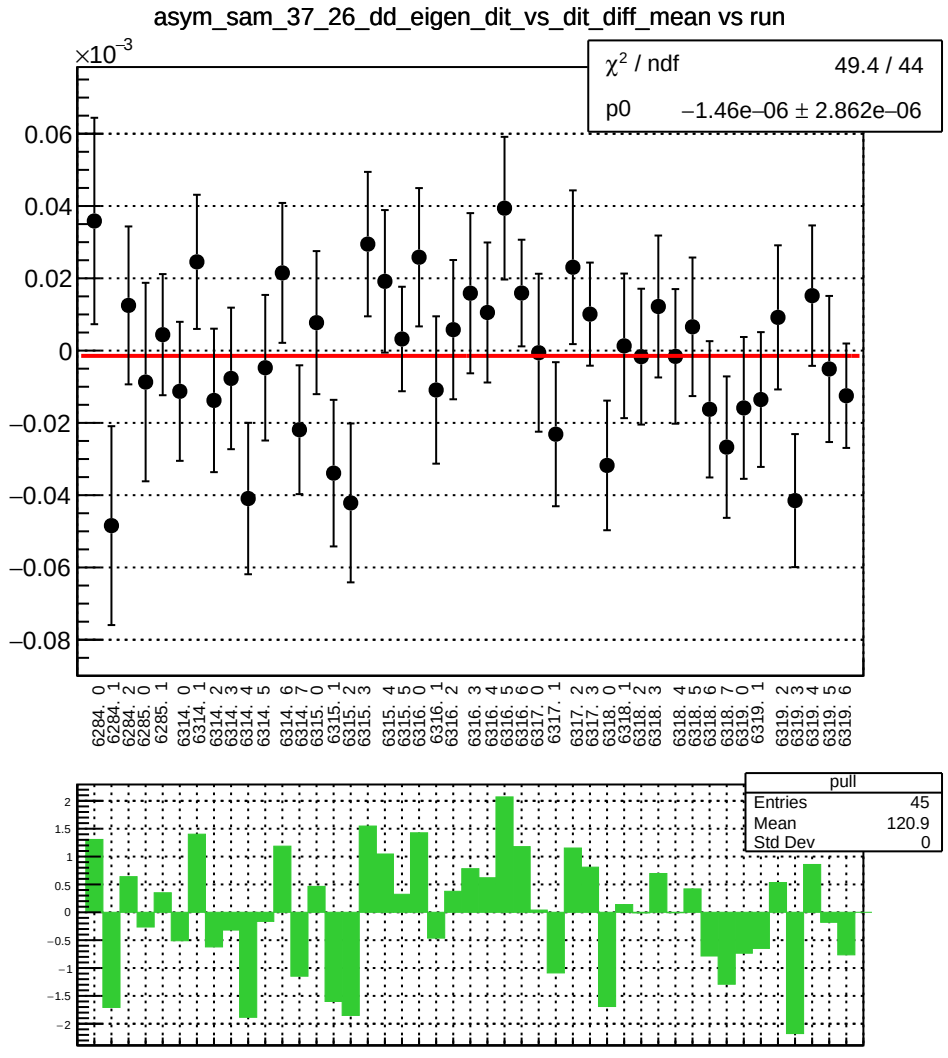

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.42 / 44
p0 0.00265 ± 0.05425
1.5
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −101.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02013
Std Dev 0.9592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

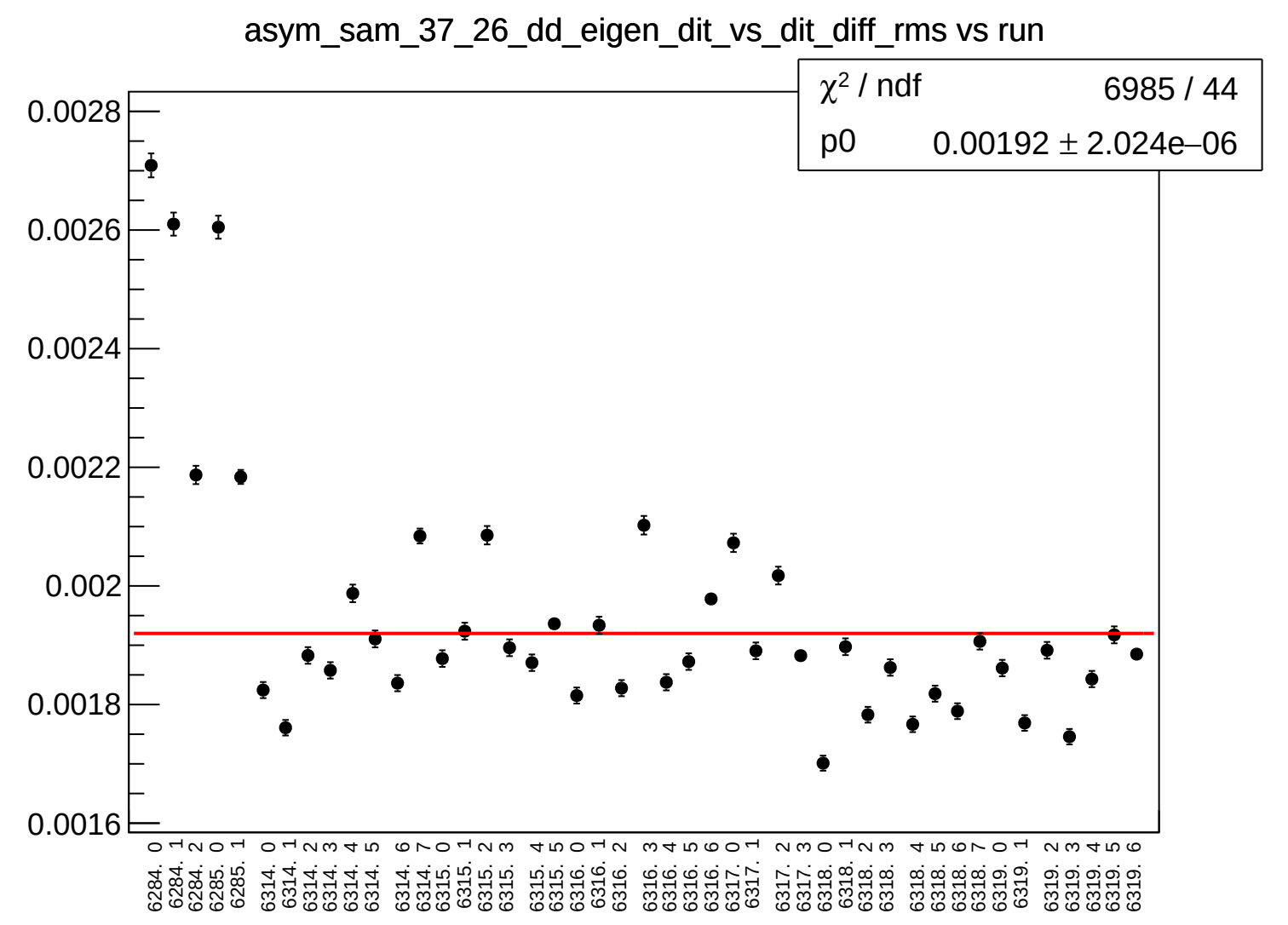

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.83e+04 / 44
p0 35.14 ± 0.03836
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

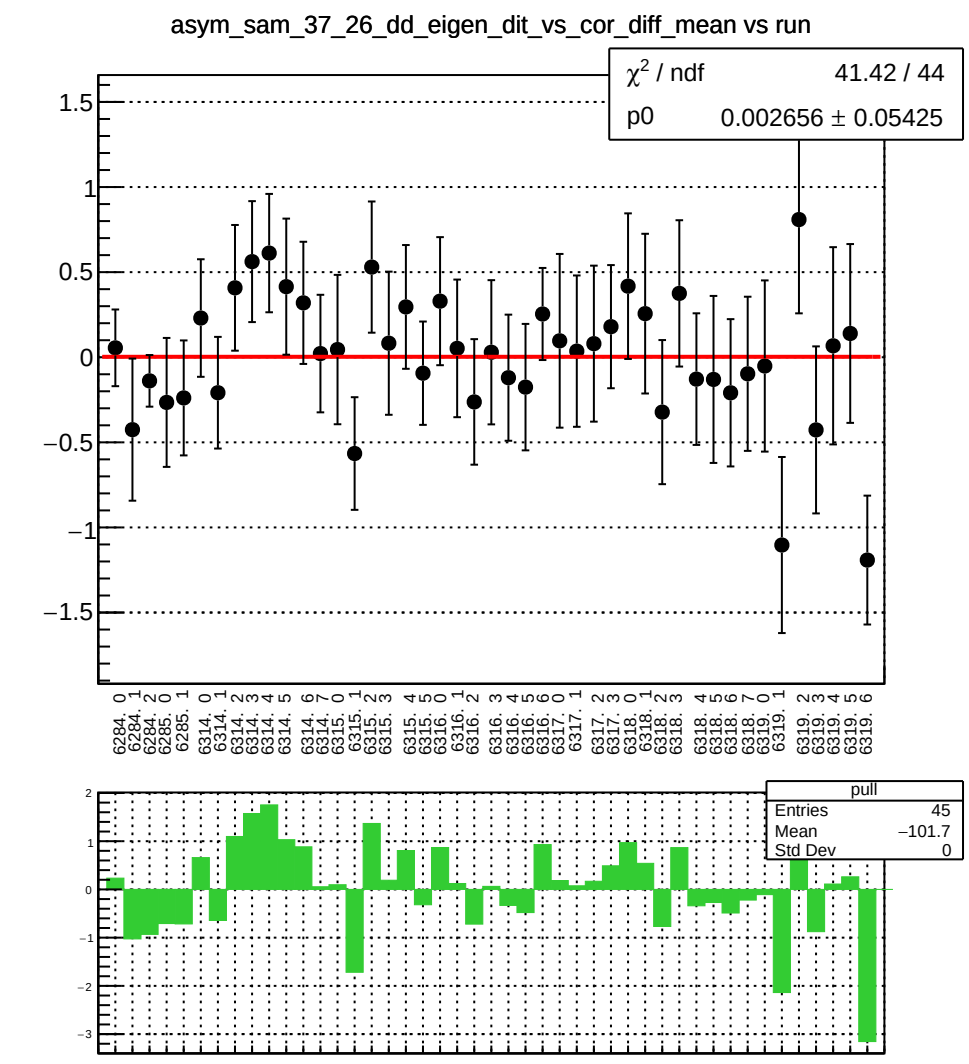

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.42 / 44
p0 0.00265 ± 0.05425
pull
Entries 45
Mean −101.7
Std Dev 0

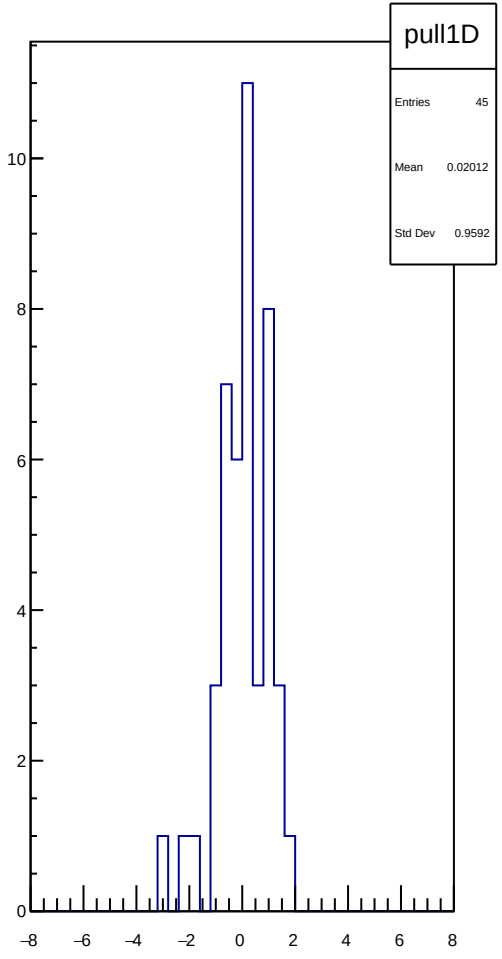

pull1D
Entries 45
Mean 0.02013
Std Dev 0.9592

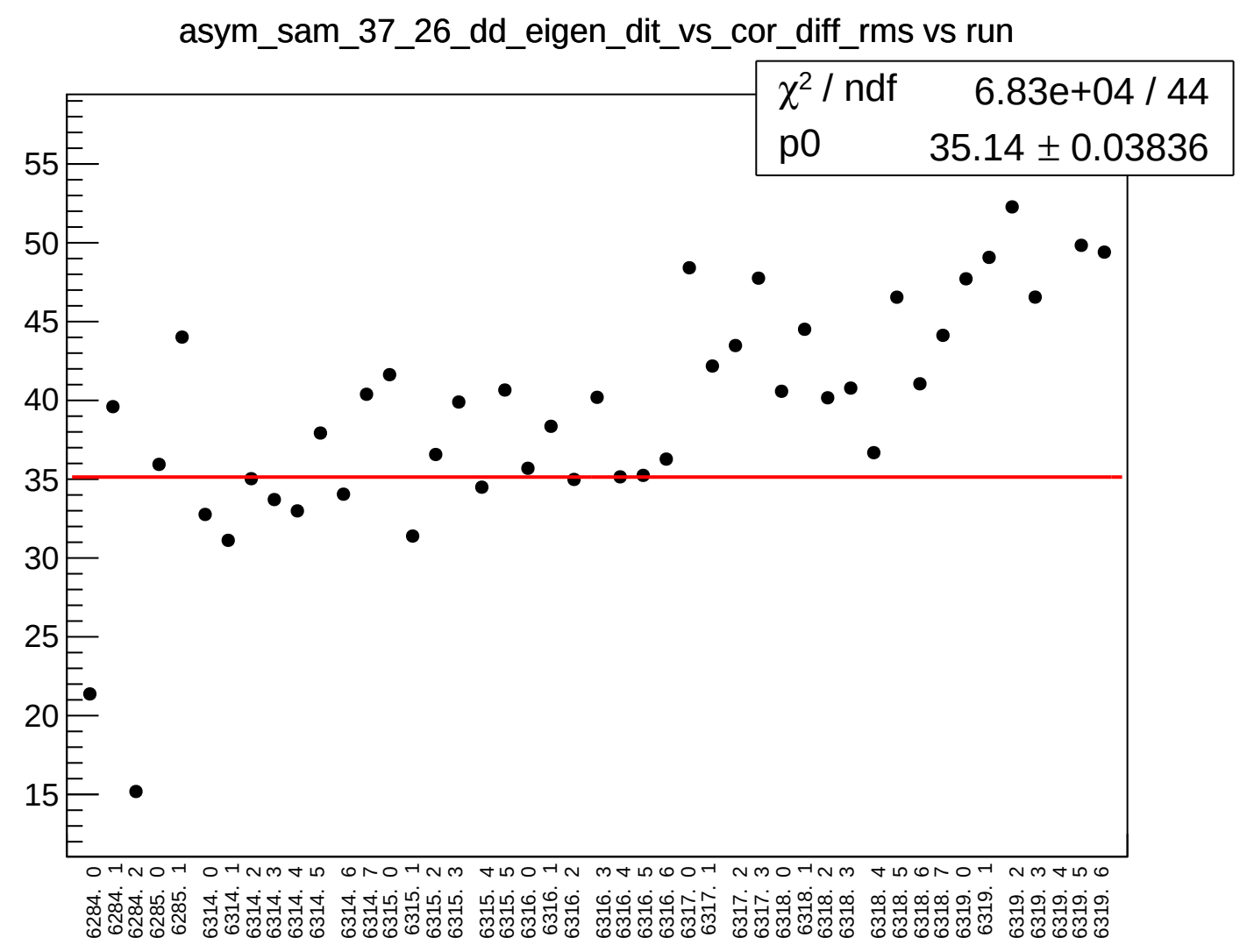

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.83e+04 / 44
p0 35.14 ± 0.03836
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

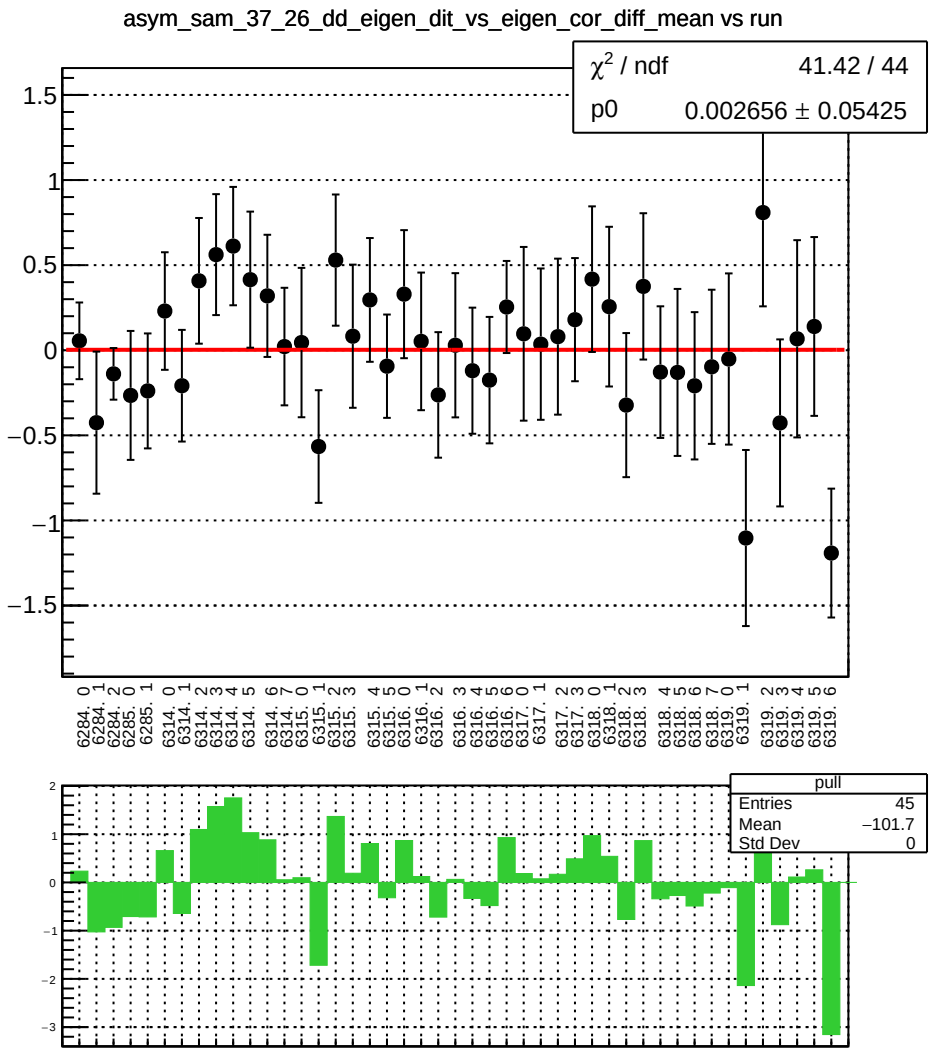

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.4 / 44
p0 −1.46e−06 ± 2.862e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 120.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01175
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

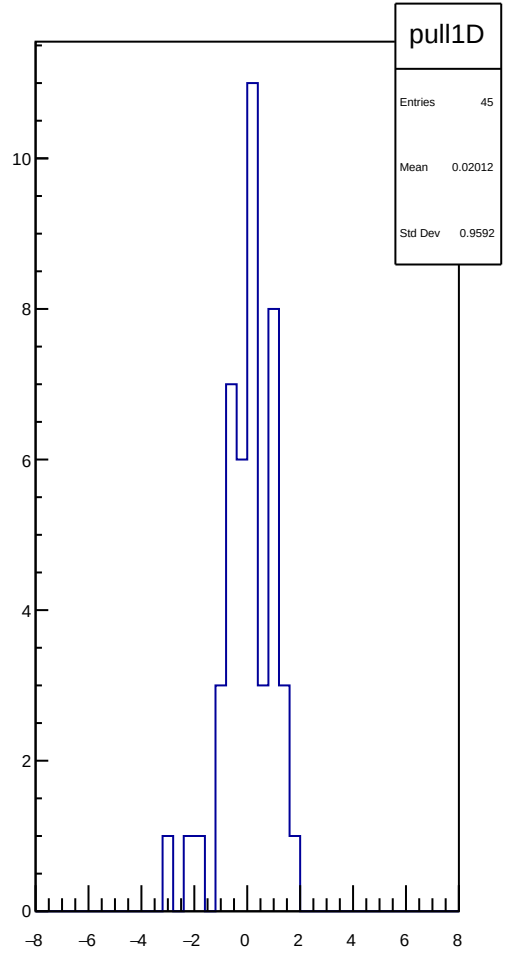

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6985 / 44
p0 0.00192 ± 2.024e–06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

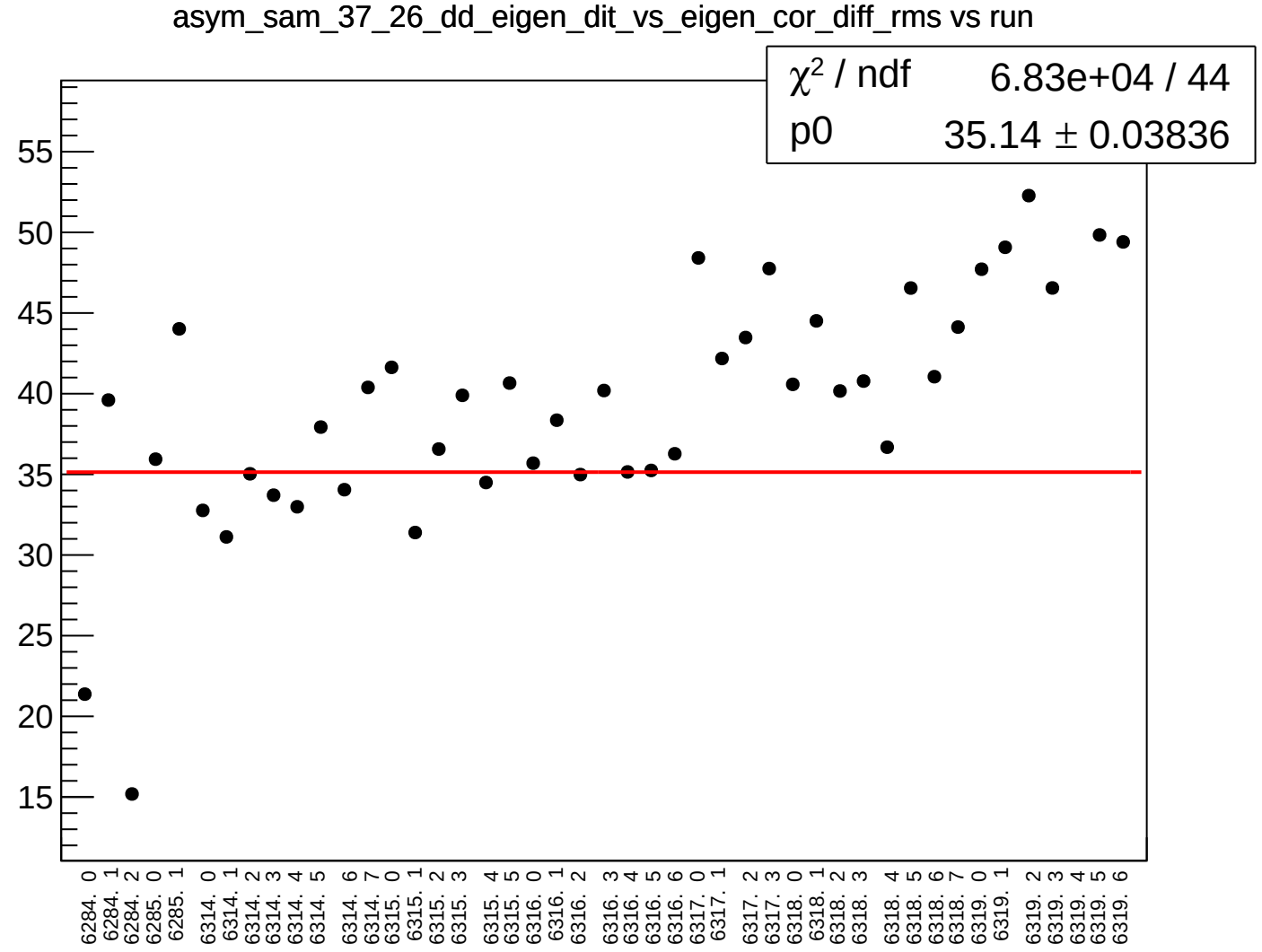

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.42 / 44
p0 0.002656 ± 0.05425
pull
Entries 45
Mean −101.7
Std Dev 0

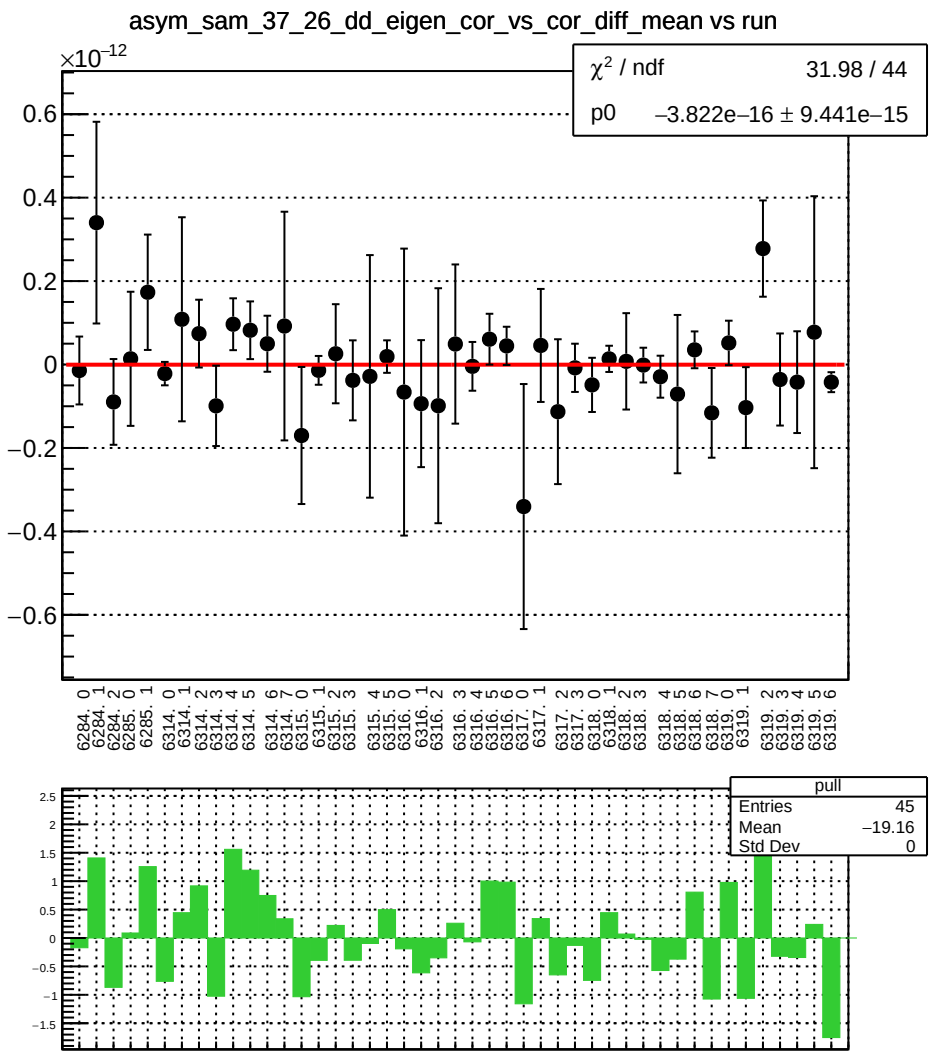

pull1D
Entries 45
Mean 0.02012
Std Dev 0.9592

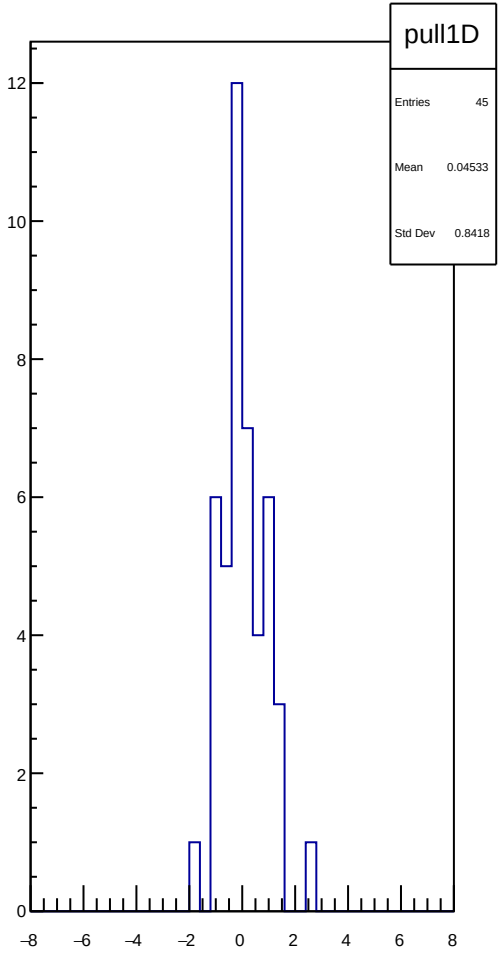

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.83e+04 / 44
p0 35.14 ± 0.03836
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

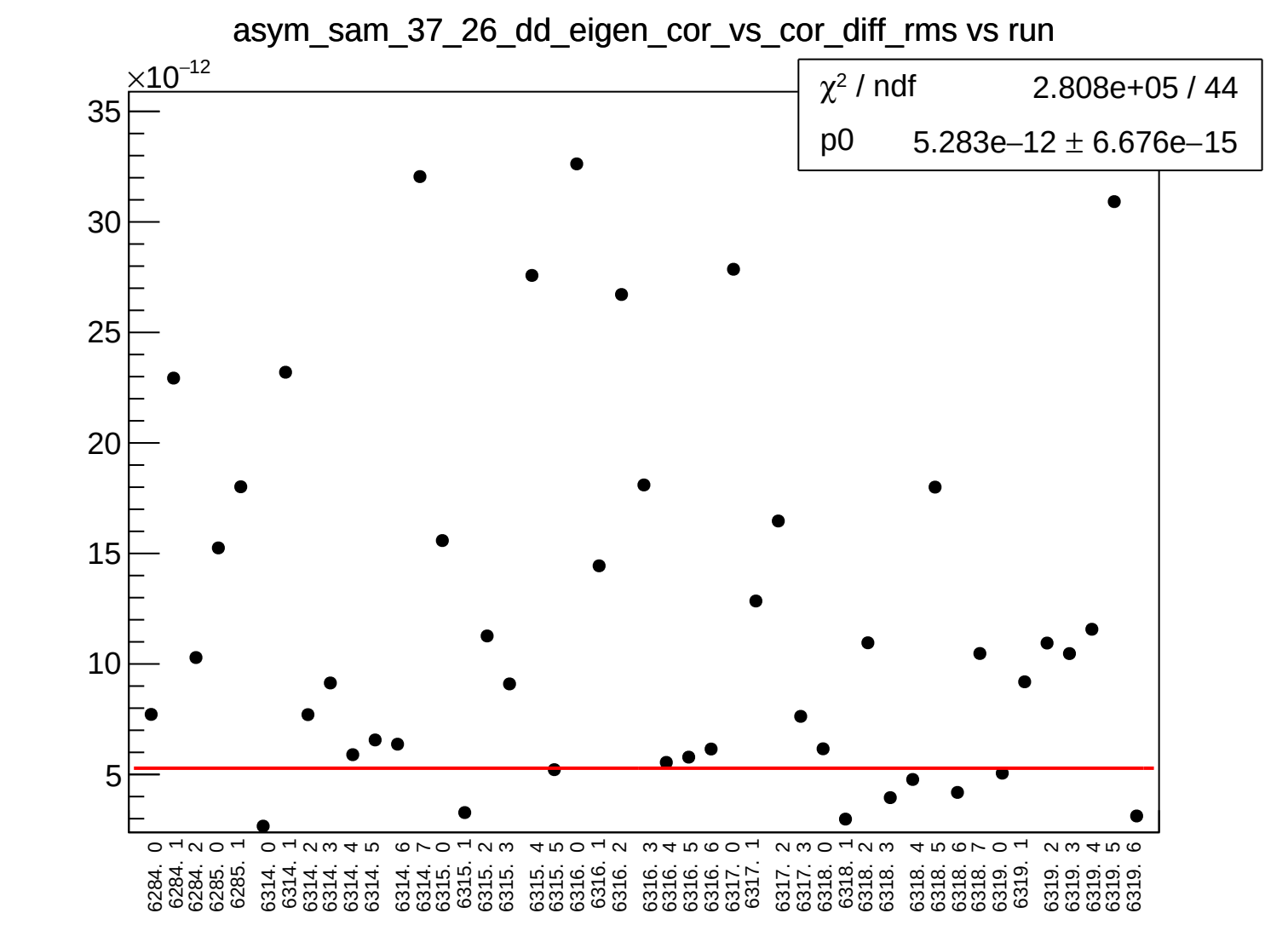

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.42 / 44
p0 0.002656 ± 0.05425
pull
Entries 45
Mean −101.7
Std Dev 0

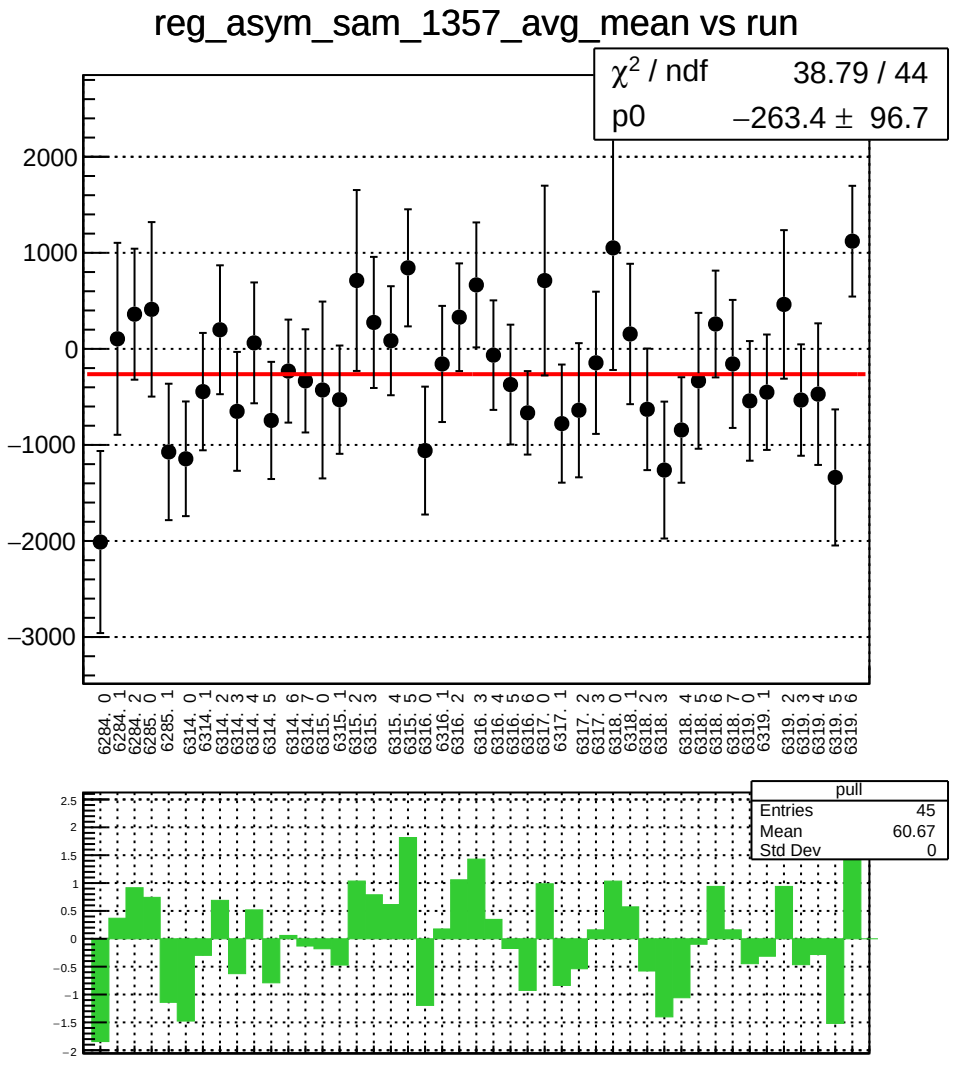

pull1D
Entries 45
Mean 0.02012
Std Dev 0.9592

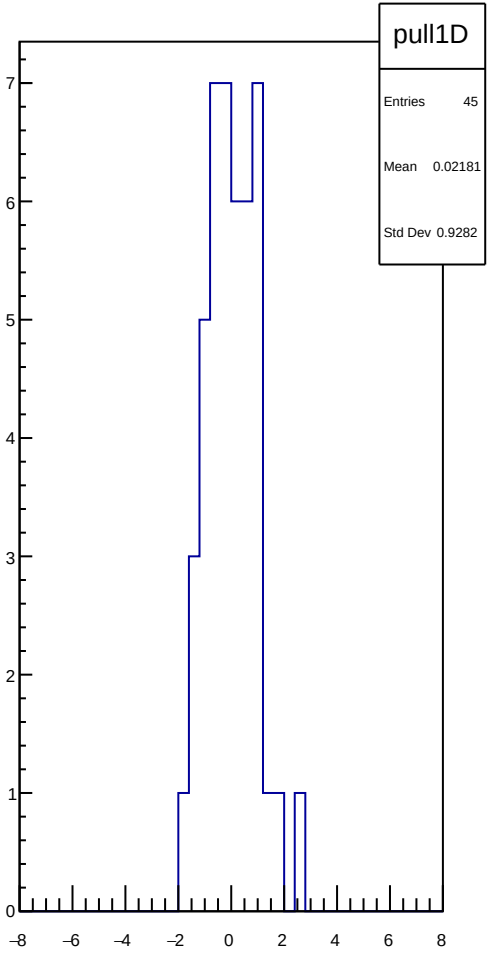

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.83e+04 / 44
p0 35.14 ± 0.03836
55
50
45
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

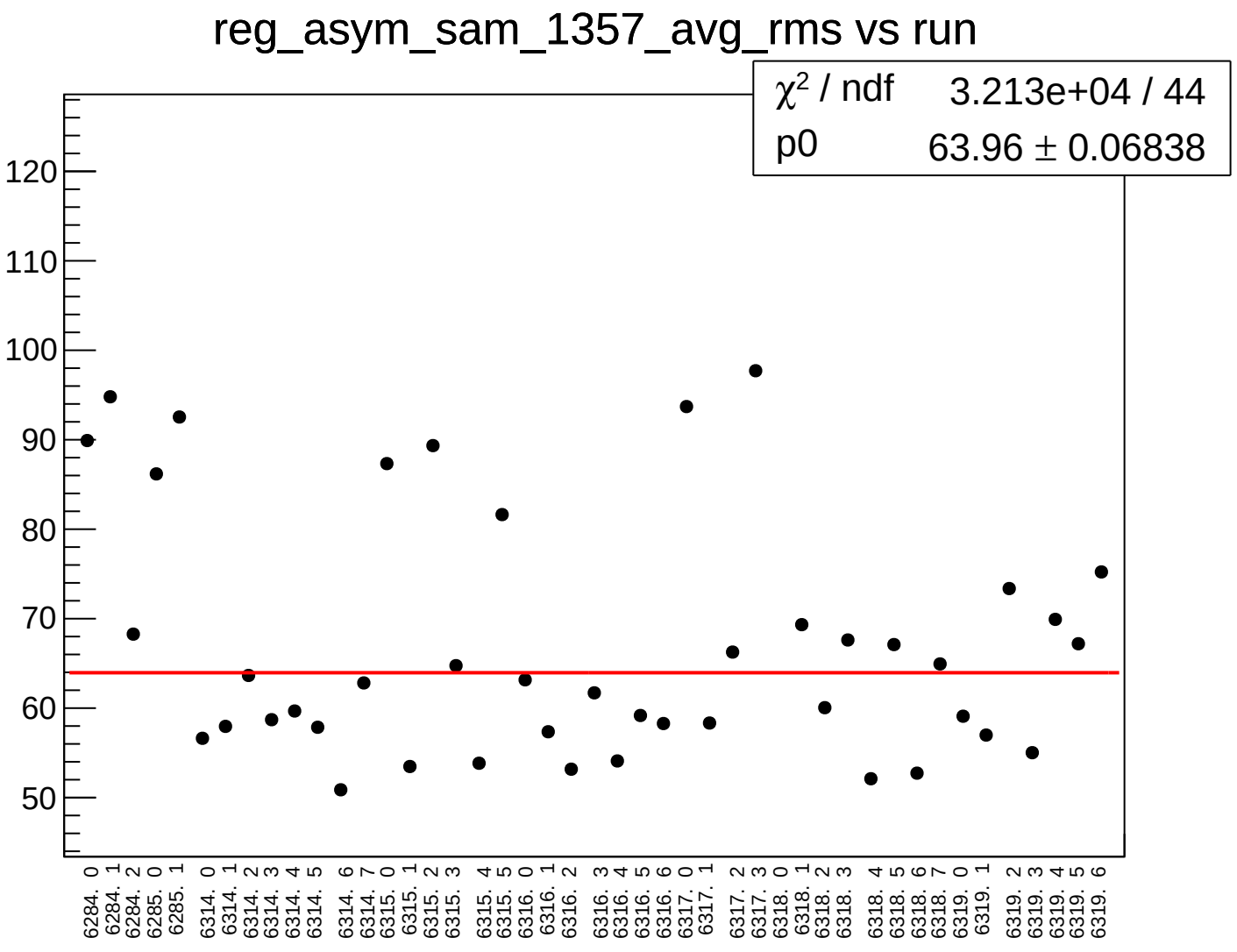

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.98 / 44
p0 −3.822e−16 ± 9.441e−15
pull
Entries 45
Mean −19.16
Std Dev 0


pull1D
Entries 45
Mean 0.04533
Std Dev 0.8418


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.808e+05 / 44
p0 5.283e−12 ± 6.676e−15
35
30
25
20
15
10
5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 38.79 / 44
p0 −263.4 ± 96.7
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 60.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02181
Std Dev 0.9282
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3.213e+04 / 44
p0 63.96 ± 0.06838
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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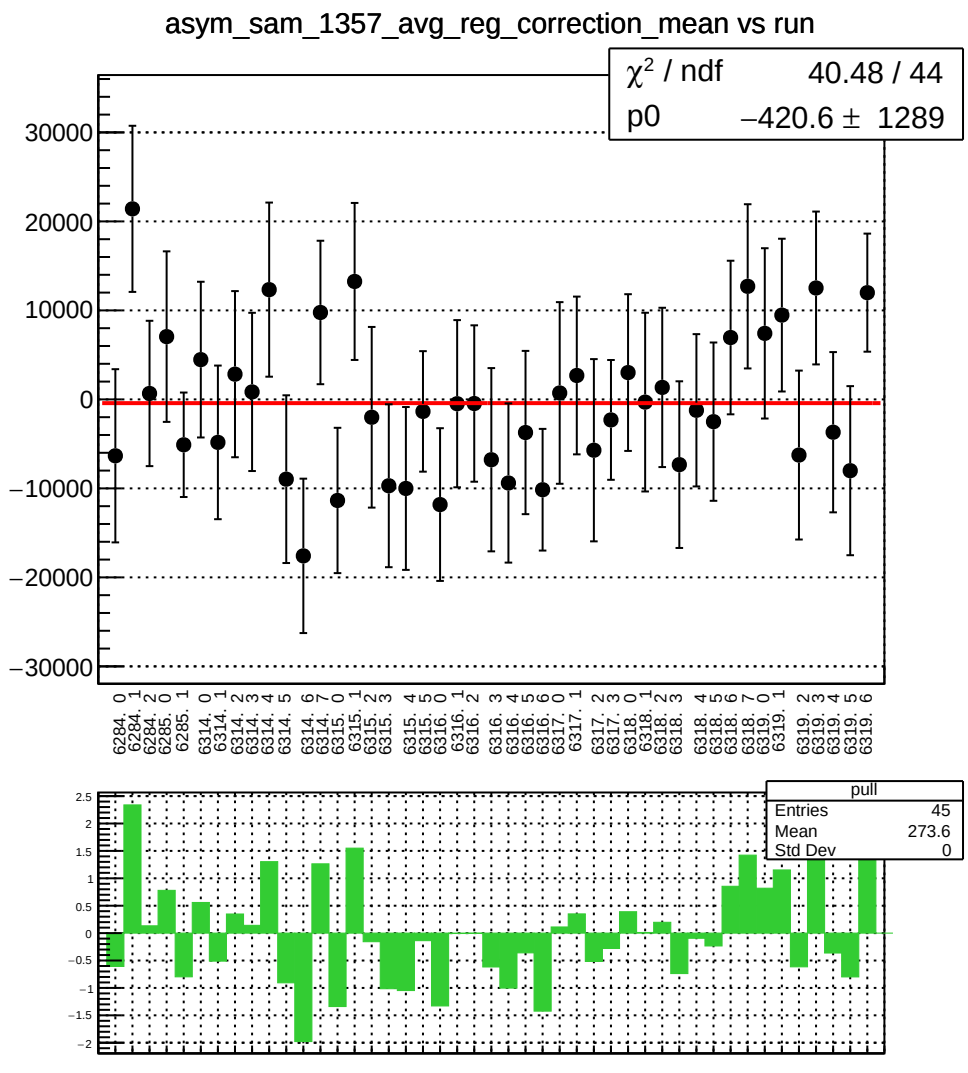
6319. 5
6319. 6


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 40.48 / 44
p0 −420.6 ± 1289
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
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6316. 1
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6316. 3
6316. 4
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6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
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6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 273.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005045
Std Dev 0.9484
9
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5
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−4
−2
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6
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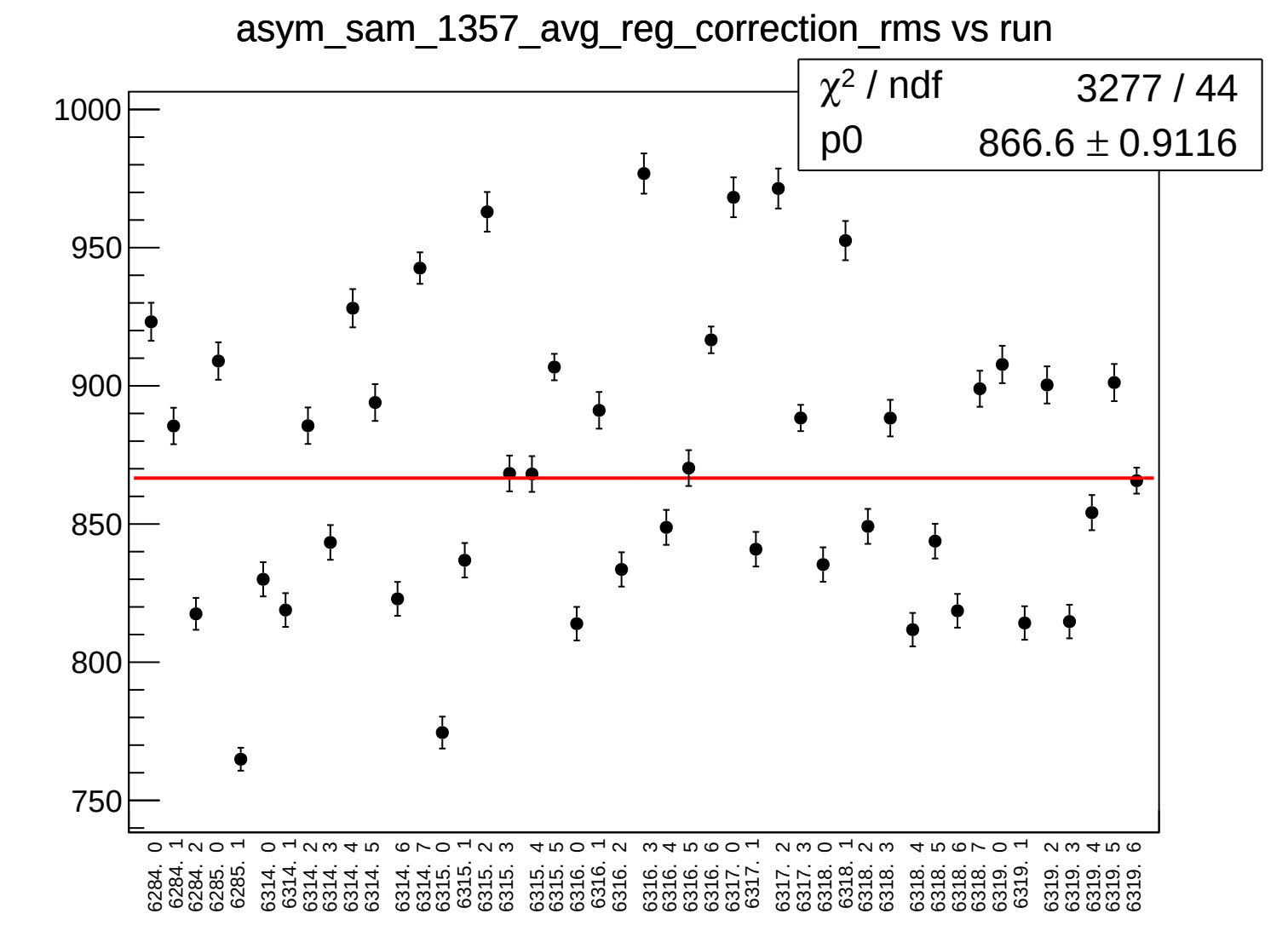
asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3277 / 44
p0 866.6 ± 0.9116
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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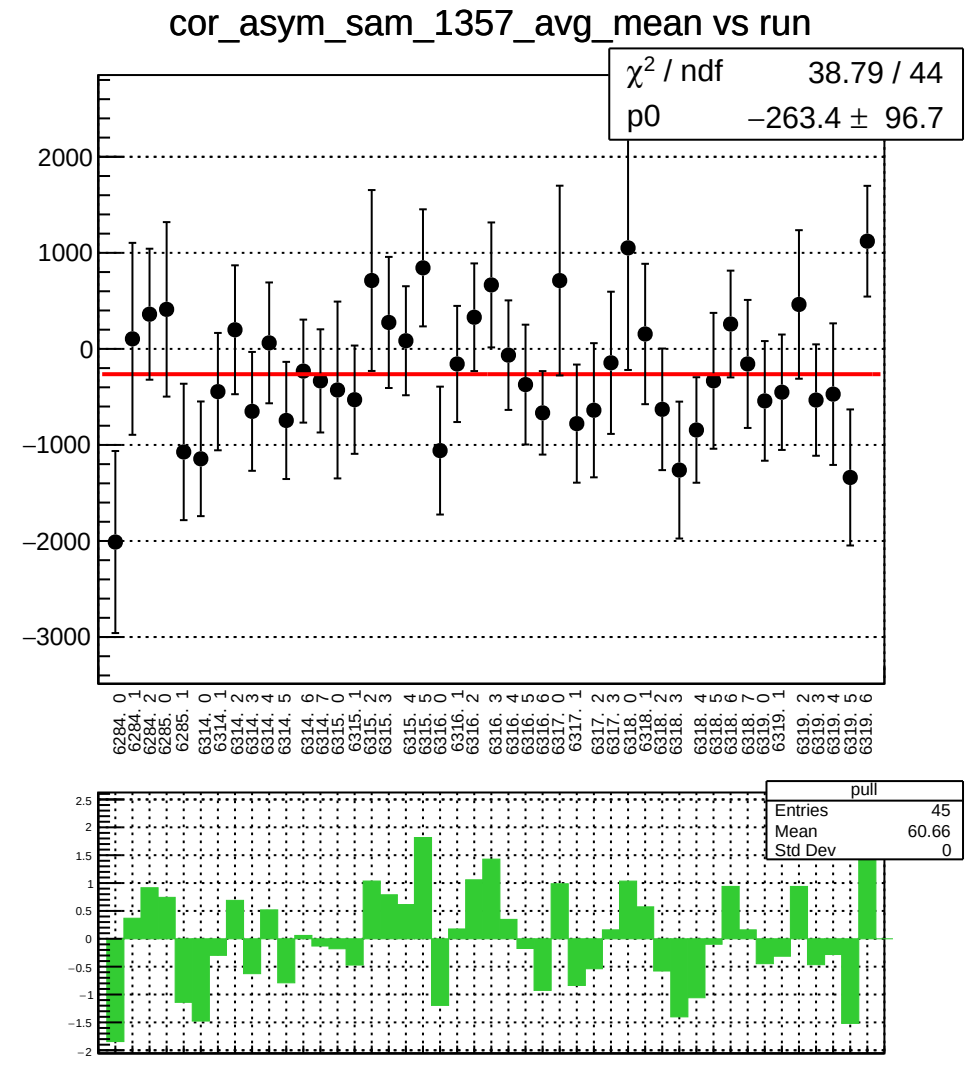
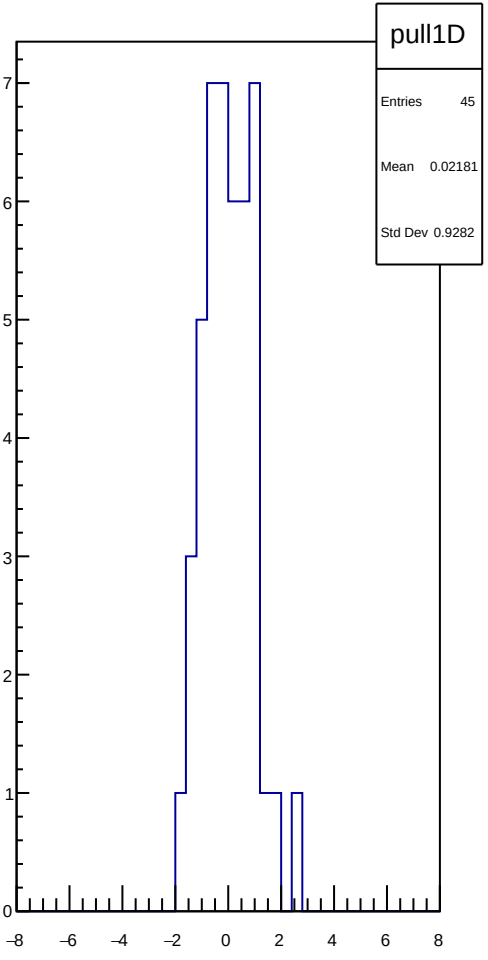

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 38.79 / 44
p0 −263.4 ± 96.7
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 60.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02181
Std Dev 0.9282
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6
5
4
3
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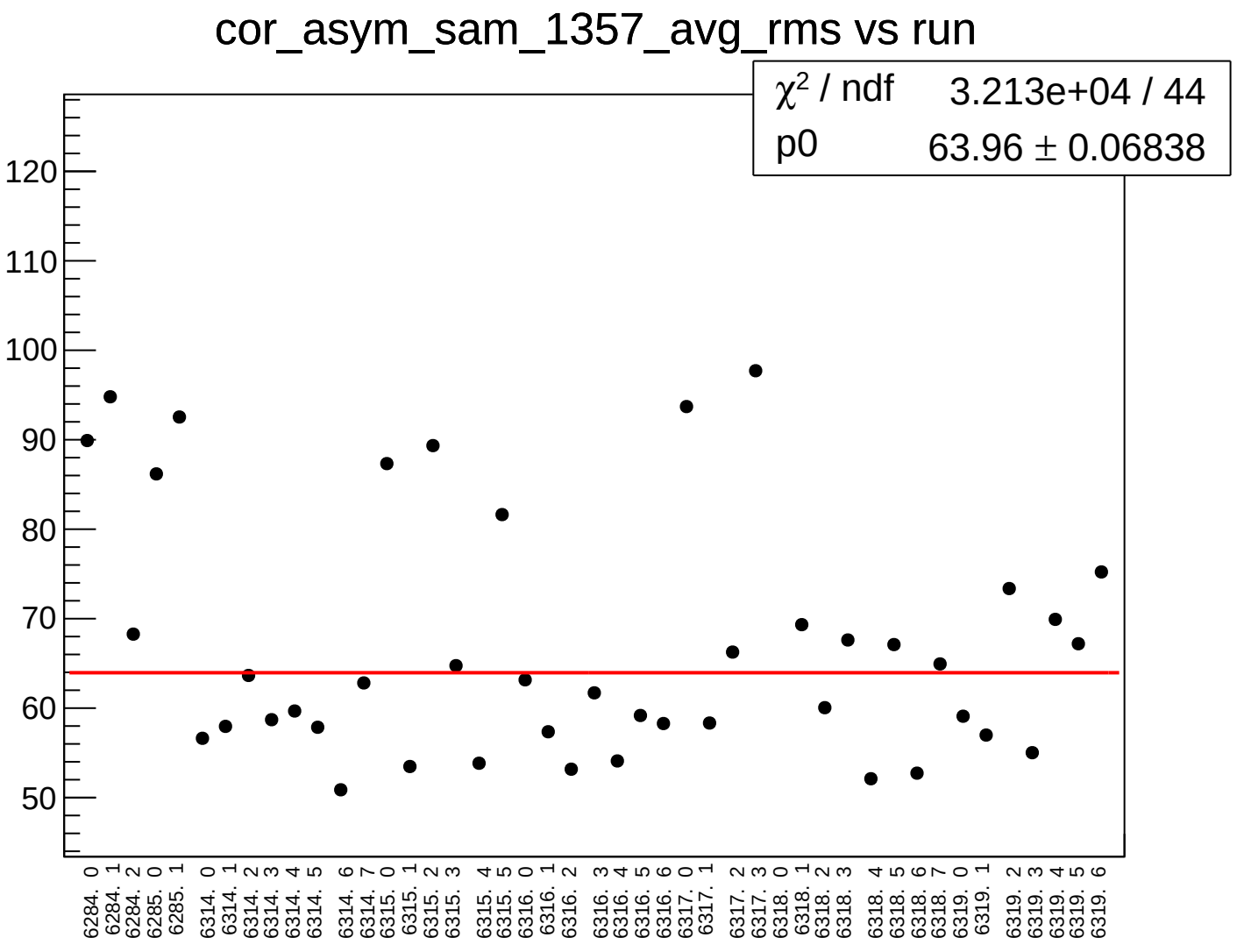
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.213e+04 / 44
p0 63.96 ± 0.06838
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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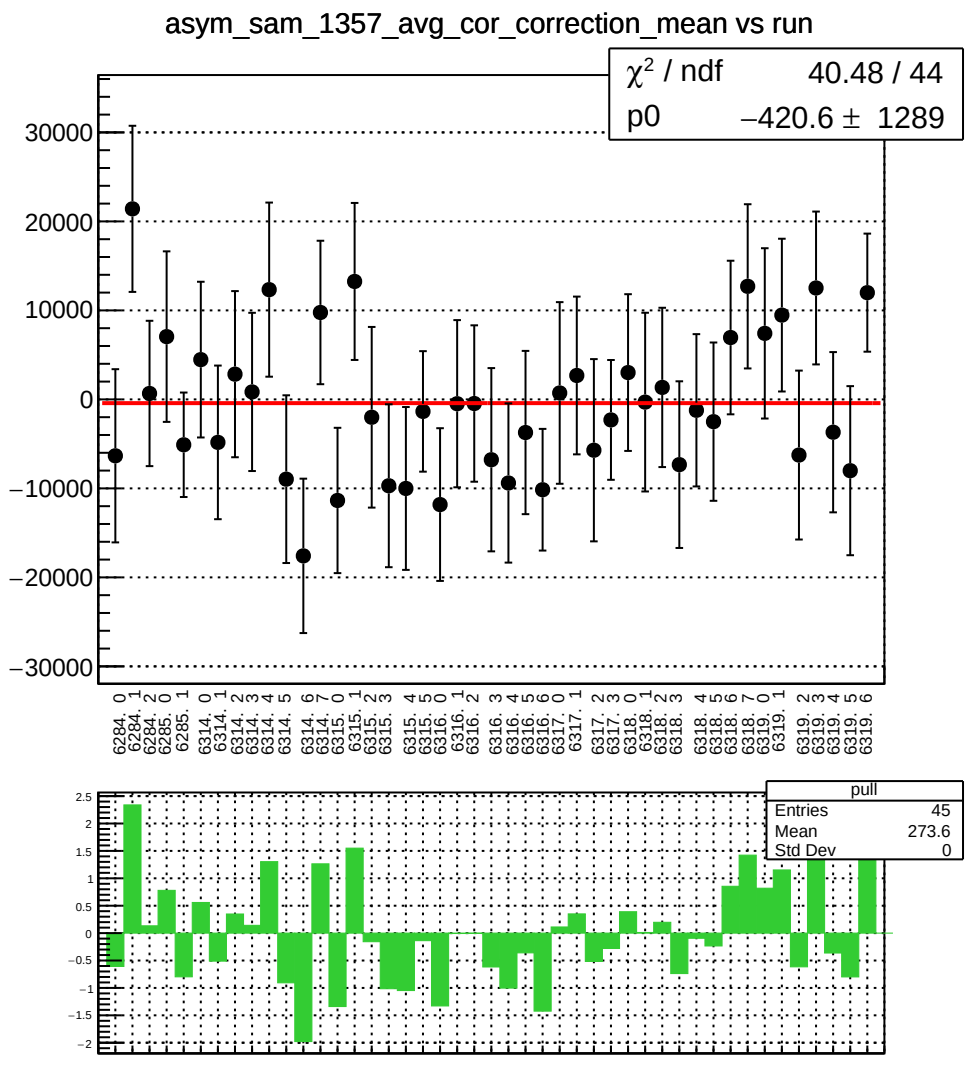
6319. 5
6319. 6


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 40.48 / 44
p0 −420.6 ± 1289
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 273.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005045
Std Dev 0.9484
9
8
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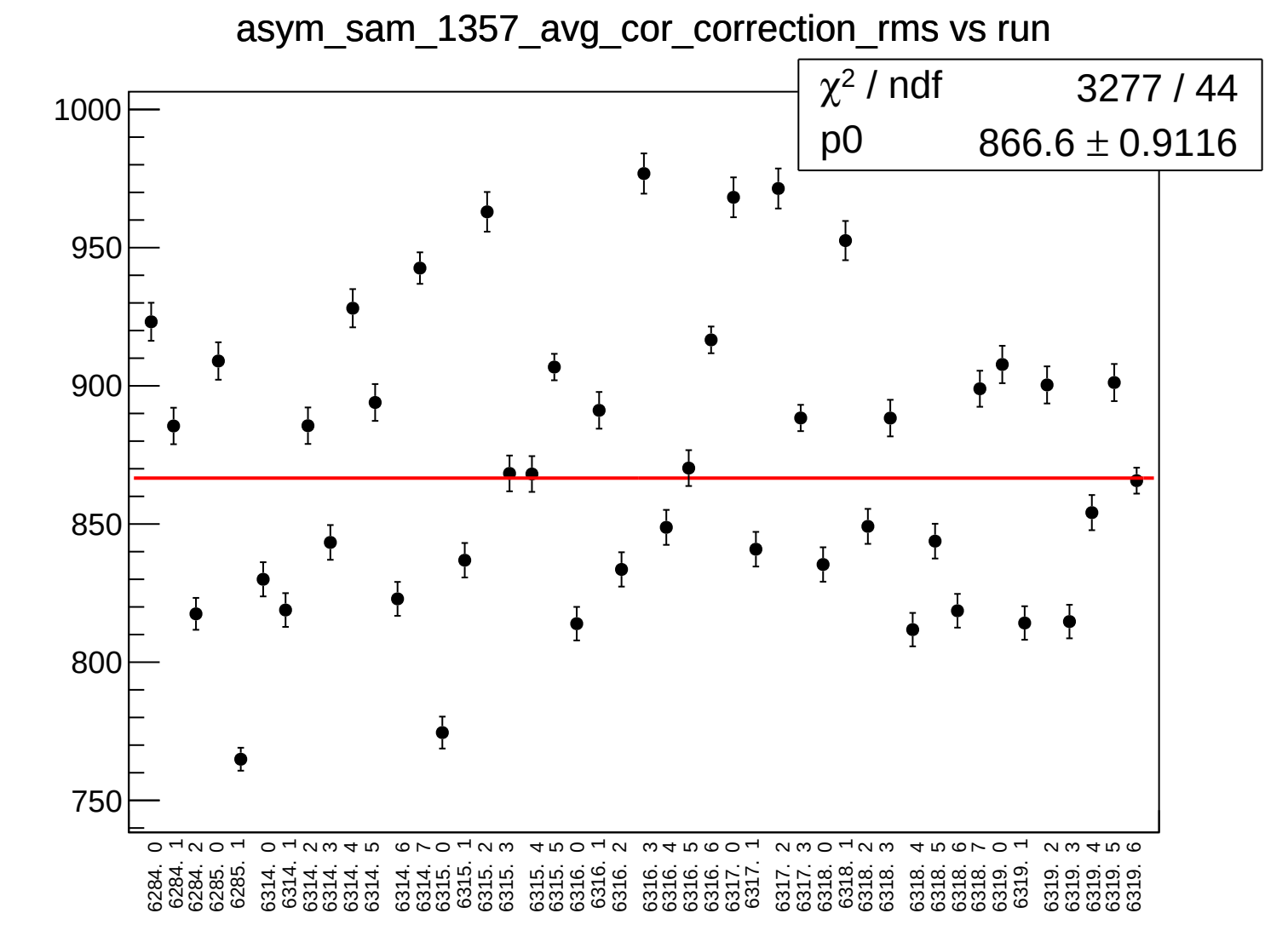
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3277 / 44
p0 866.6 ± 0.9116
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
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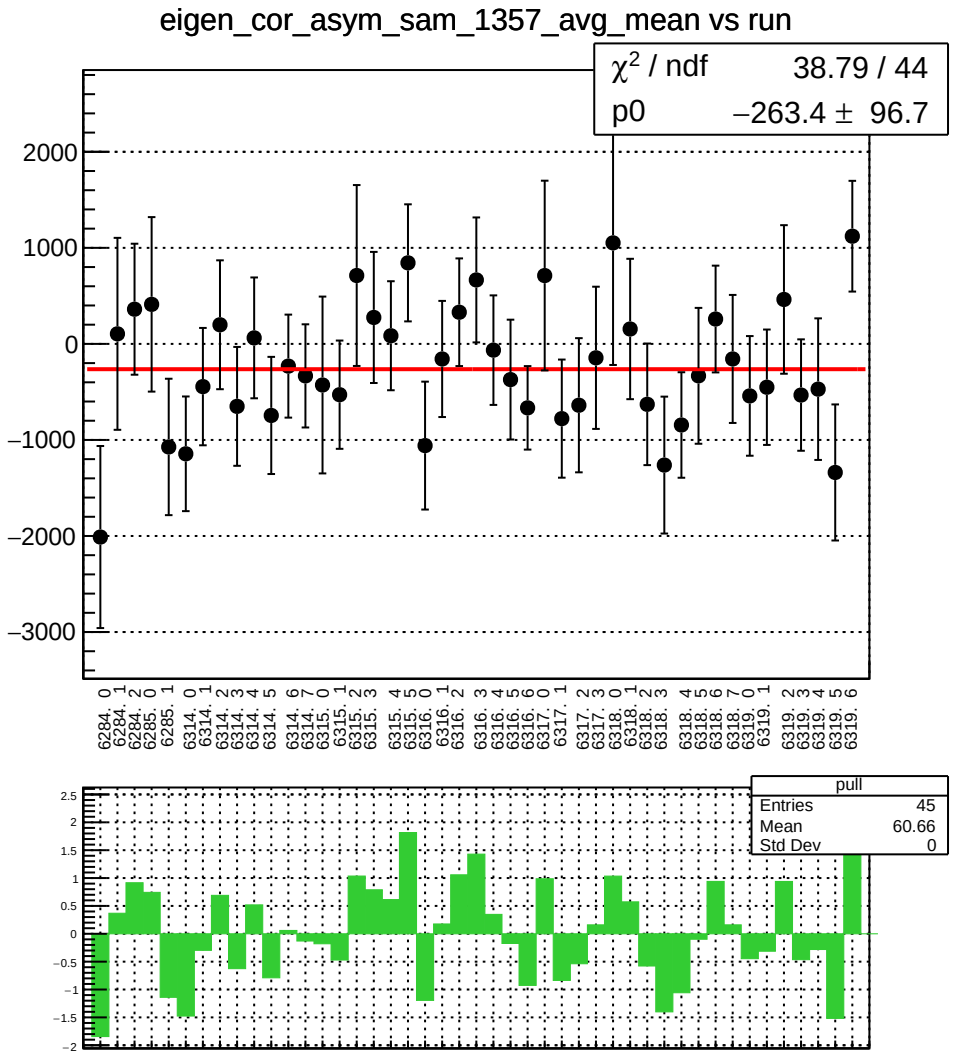
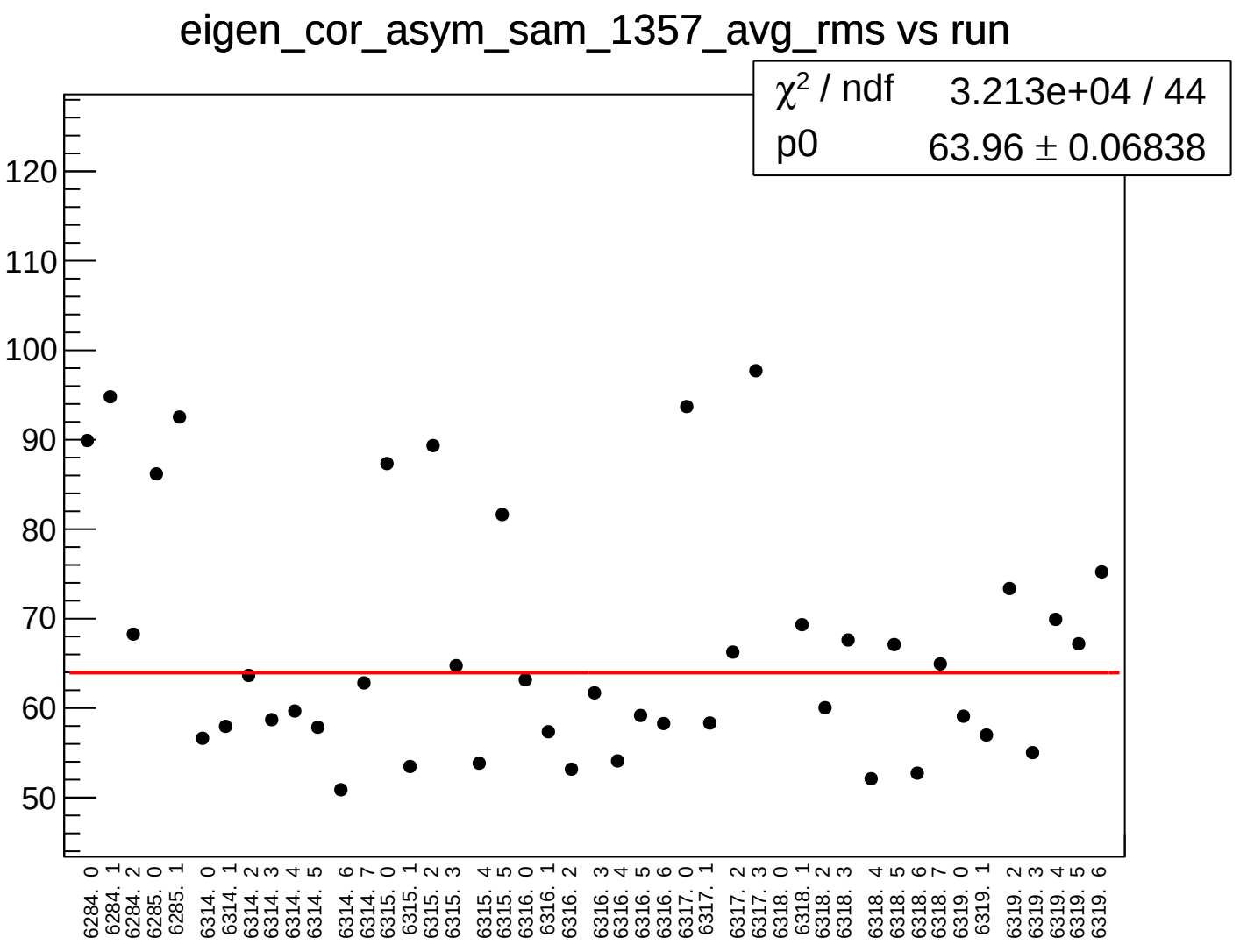
6319. 5
6319. 6


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 38.79 / 44
p0 −263.4 ± 96.7
pull
Entries 45
Mean 60.66
Std Dev 0
pull1D
Entries 45
Mean 0.02181
Std Dev 0.9282


eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.213e+04 / 44
p0 63.96 ± 0.06838
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
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6316. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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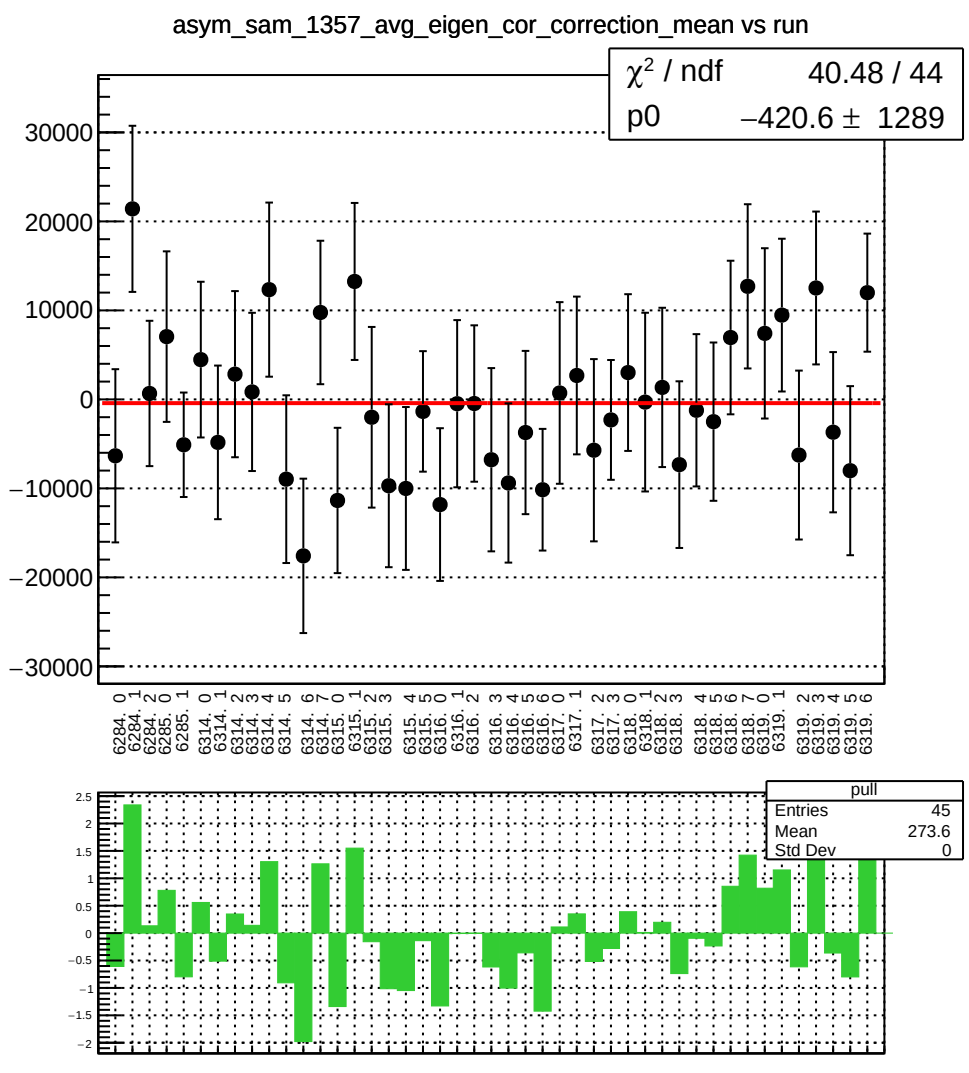
asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.48 / 44
p0 −420.6 ± 1289
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6314. 6
6314. 7
6315. 0
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6316. 0
6316. 1
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 273.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005045
Std Dev 0.9484
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−4
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2
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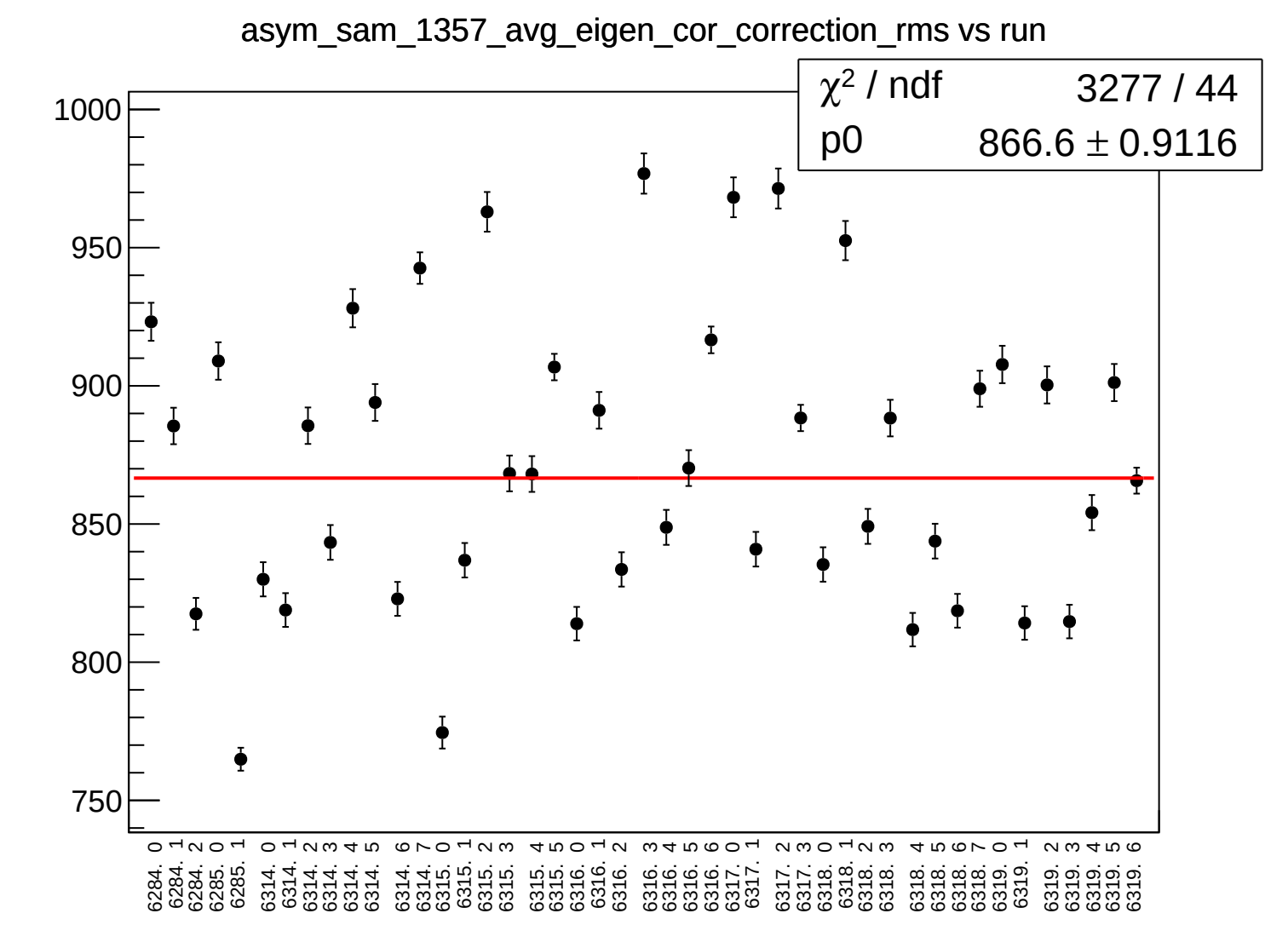
6
8


asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3277 / 44
p0 866.6 ± 0.9116
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
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6315. 4
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6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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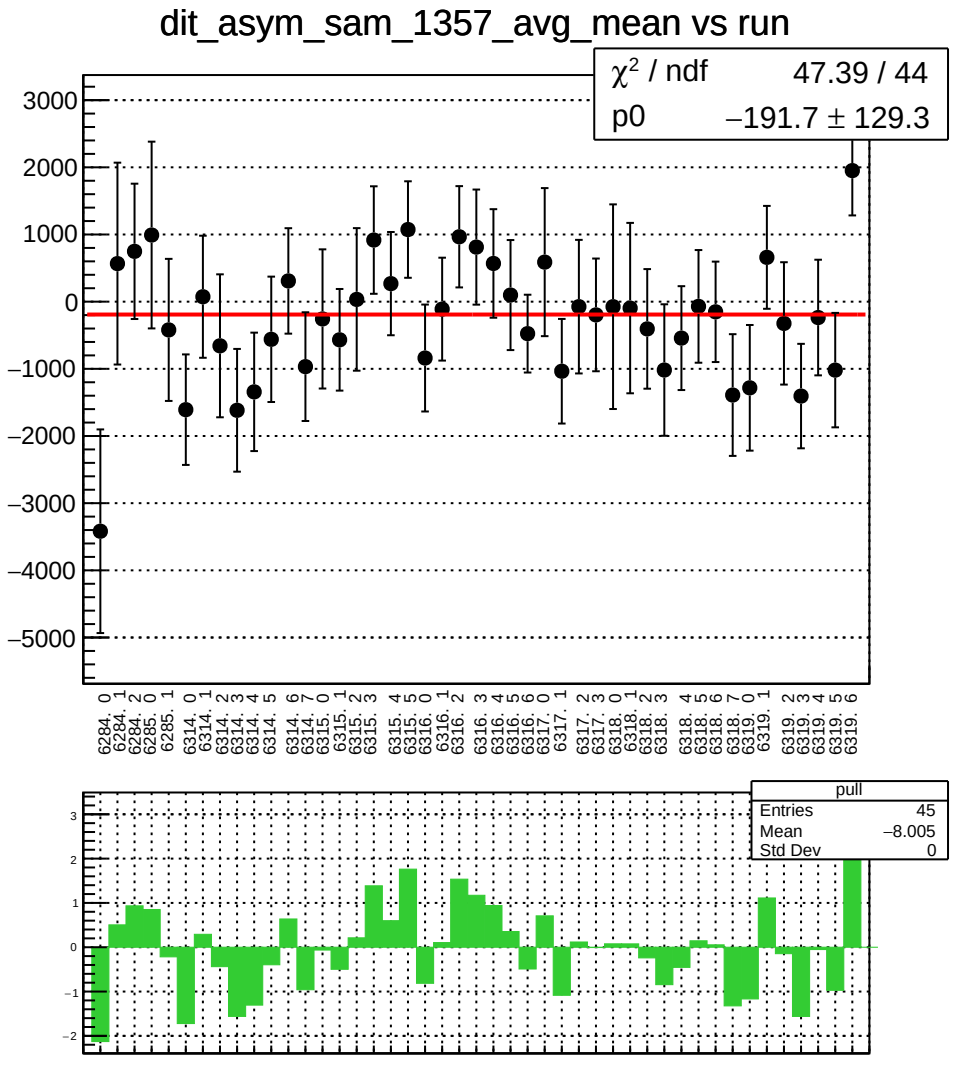
dit_asym_sam_1357_avg_mean vs run
χ² / ndf 47.39 / 44
p0 −191.7 ± 129.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 5
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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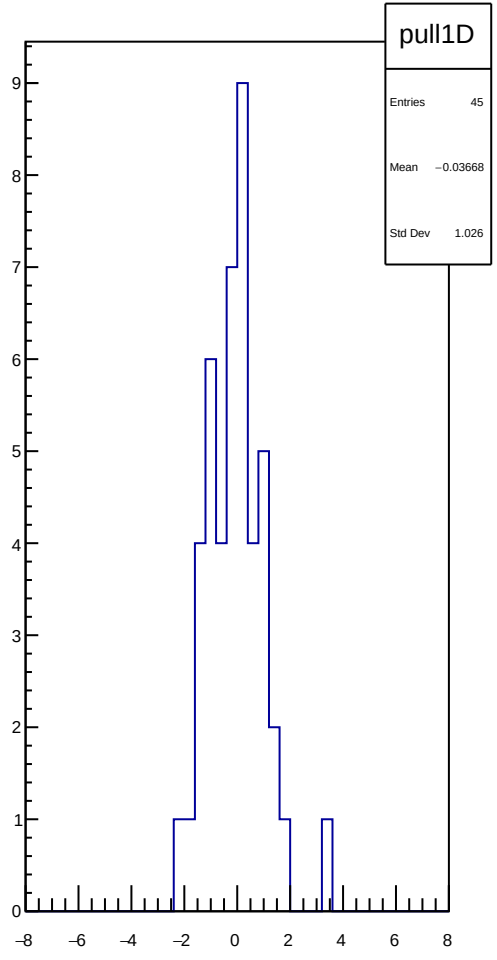
6319. 6
pull
Entries 45
Mean −8.005
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03668
Std Dev 1.026
9
8
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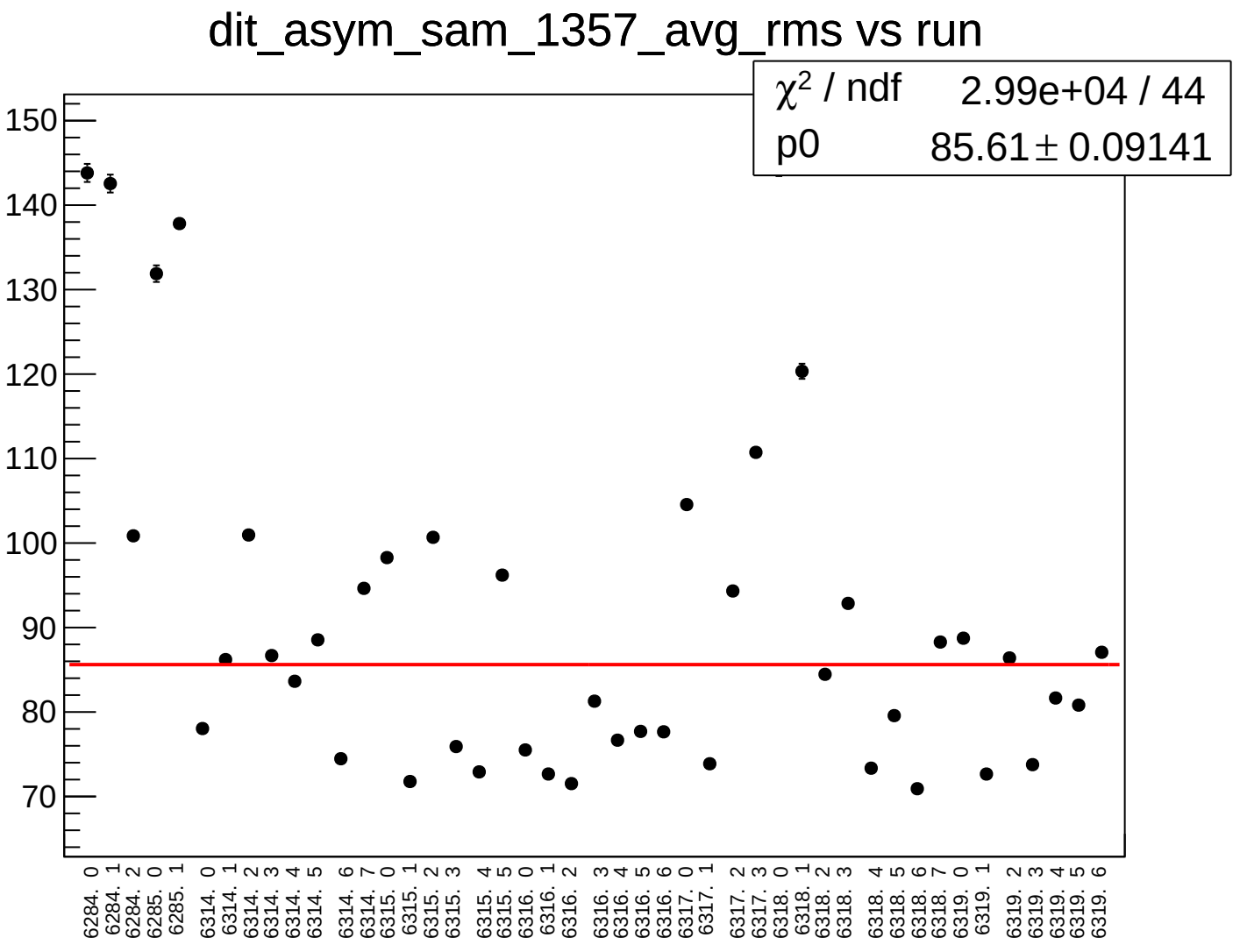
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.99e+04 / 44
p0 85.61 ± 0.09141
150
140
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
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6316. 1
6316. 2
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6316. 6
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6319. 0
6319. 1
6319. 2
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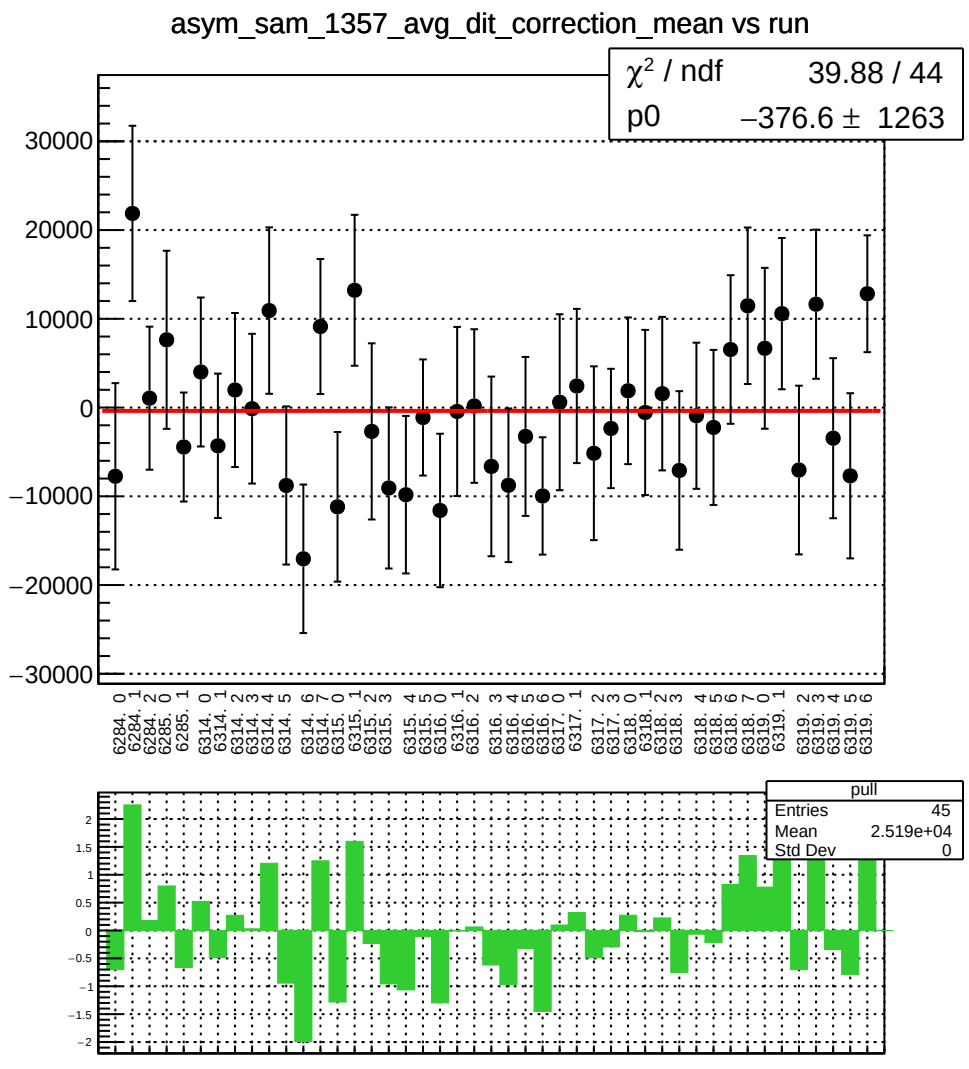
6319. 5
6319. 6


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 39.88 / 44
p0 −376.6 ± 1263
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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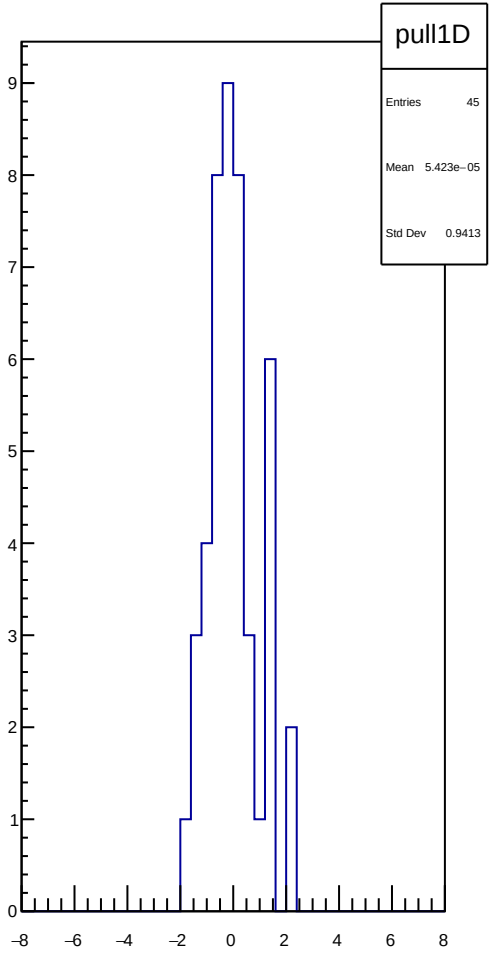
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2.519e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 5.423e−05
Std Dev 0.9413
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5
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3
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1
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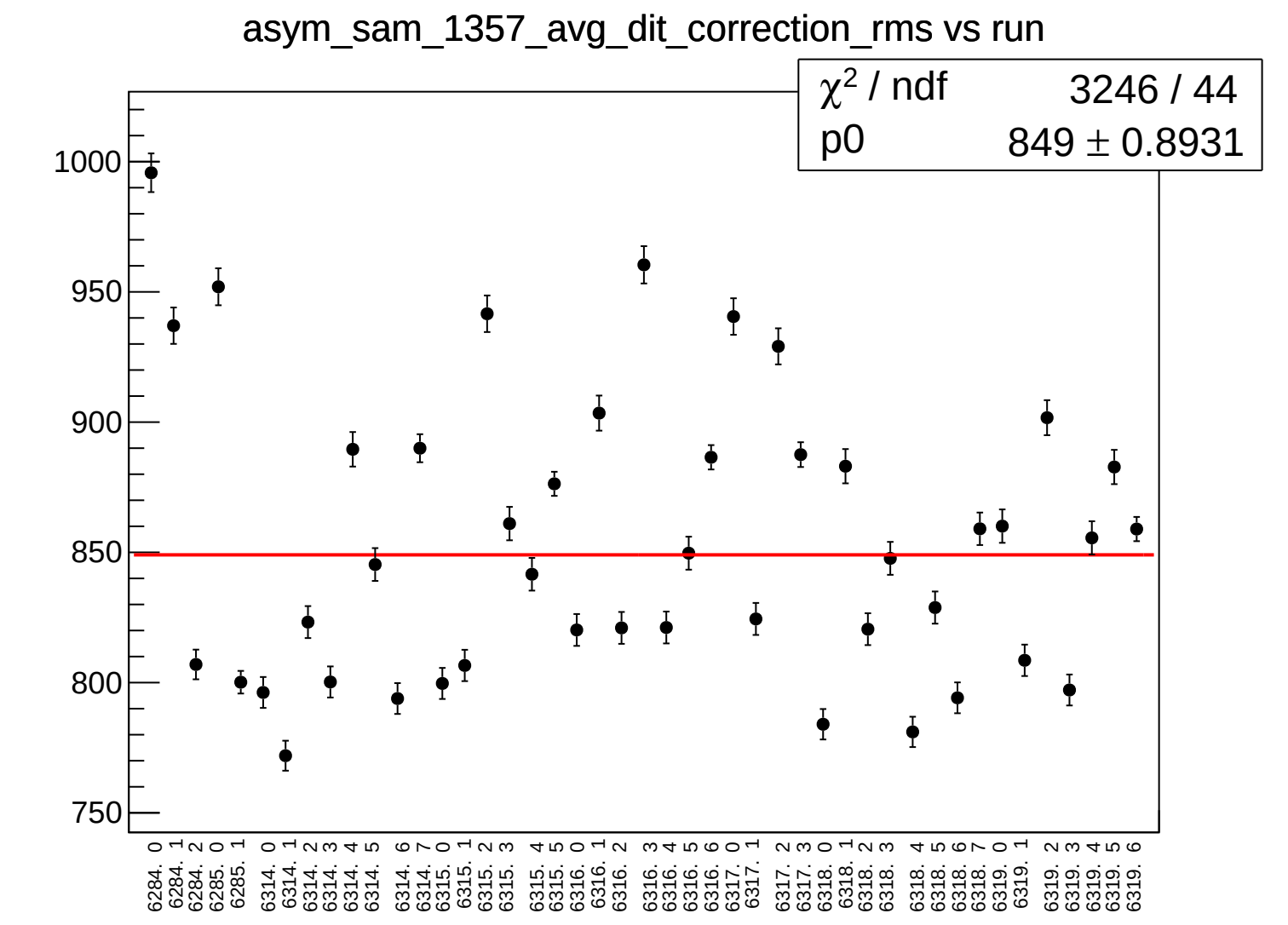
2
4
6
8


asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3246 / 44
p0 849 ± 0.8931
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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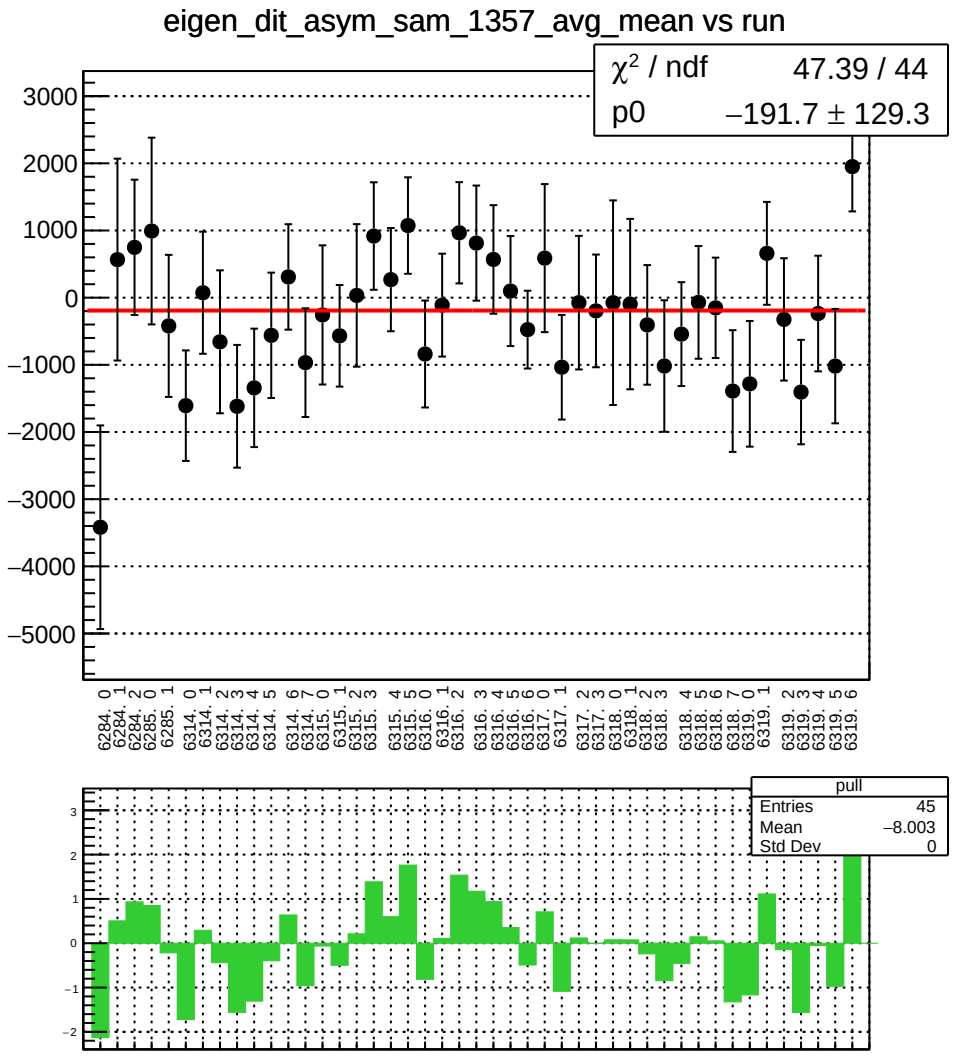
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 47.39 / 44
p0 −191.7 ± 129.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
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6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
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6316. 1
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6318. 0
6318. 1
6318. 2
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
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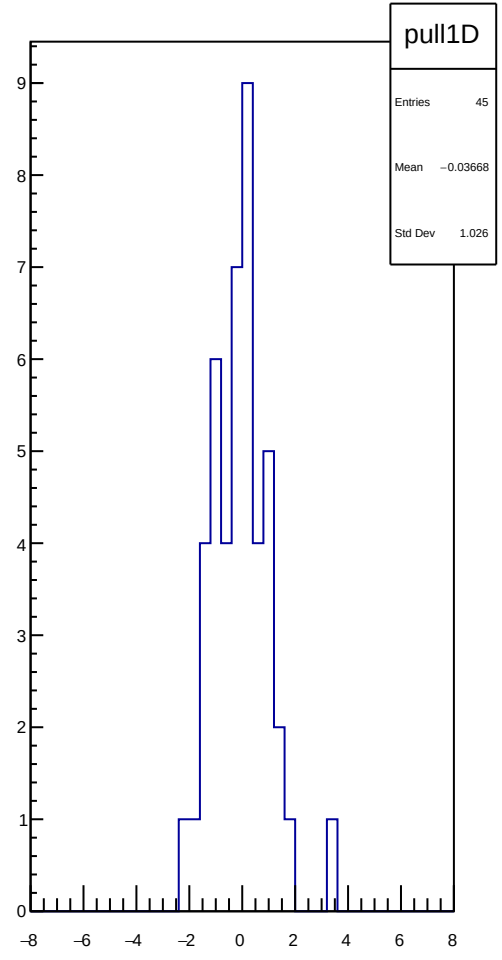
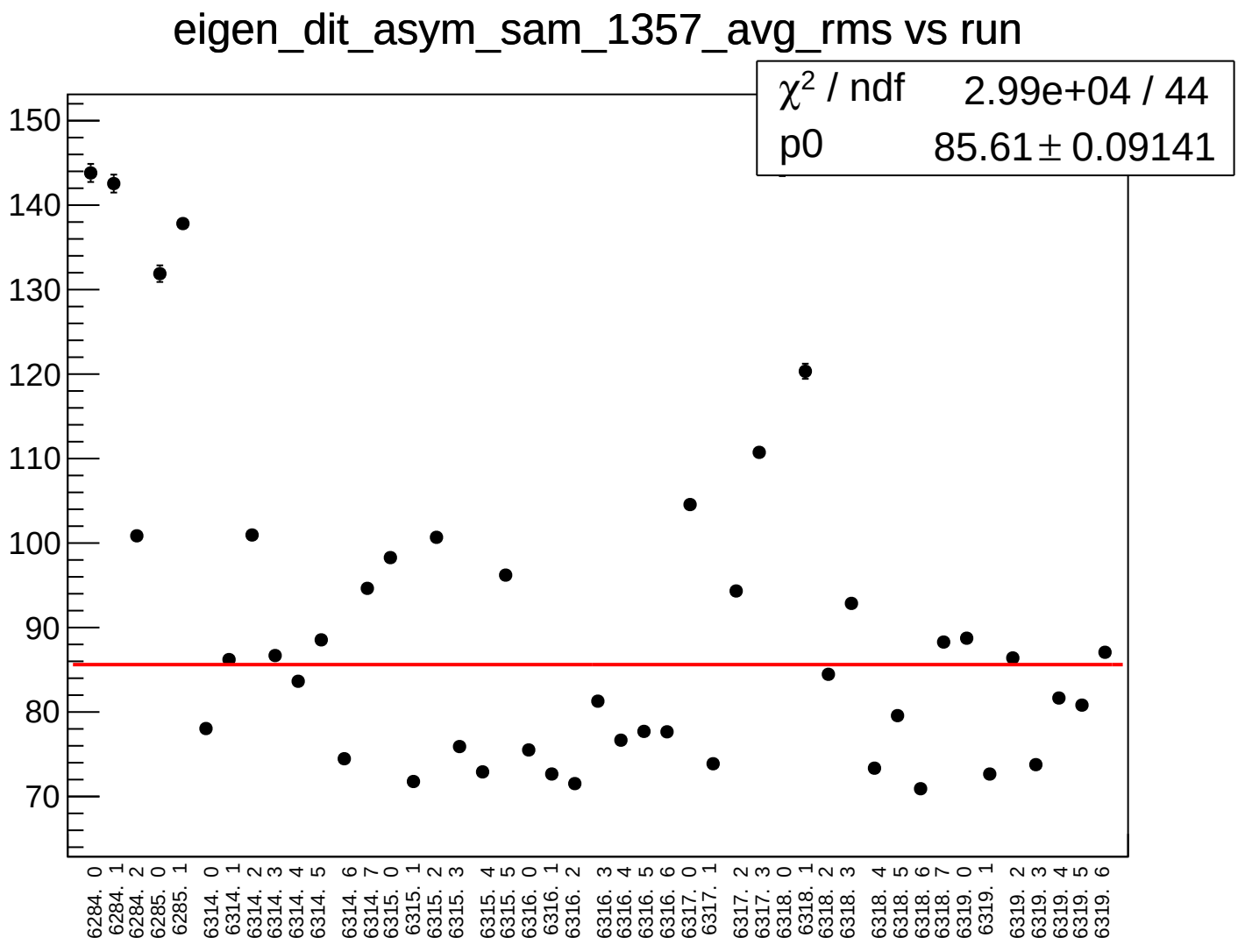
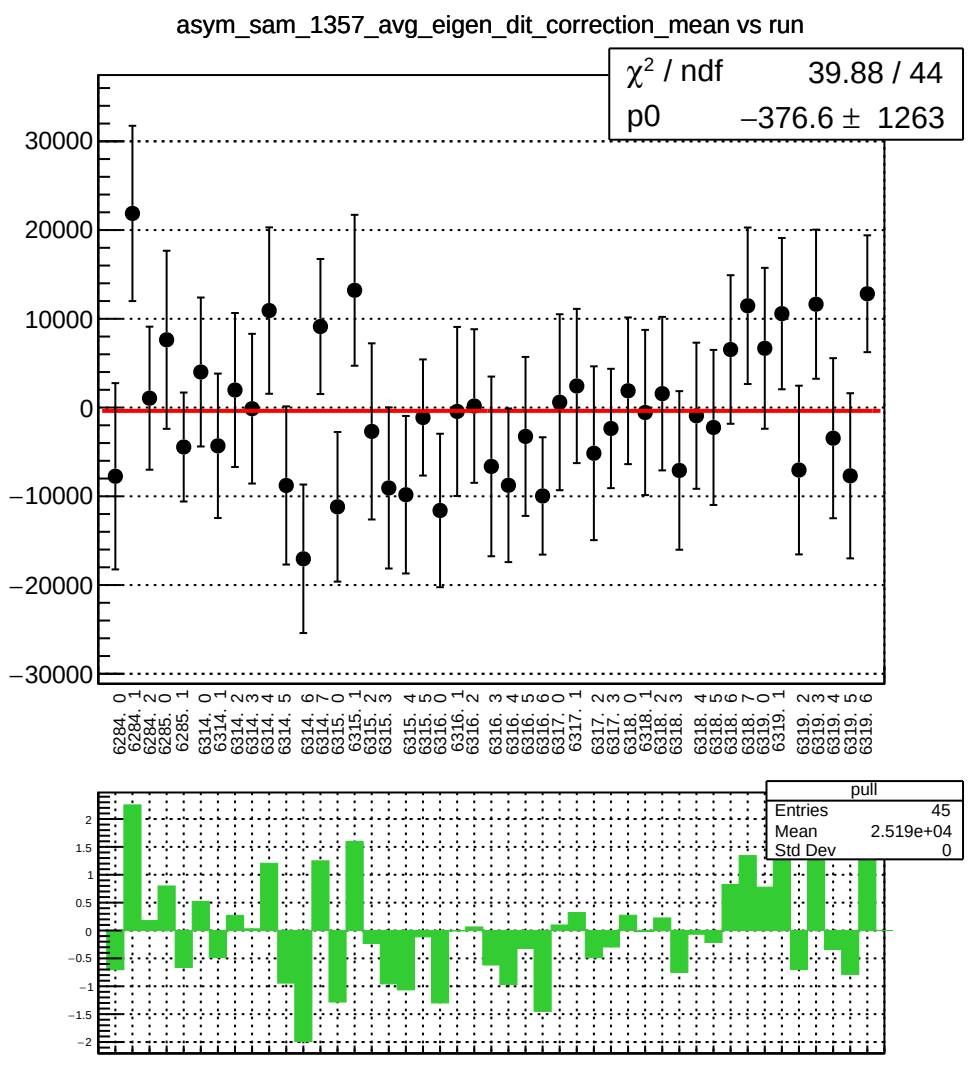
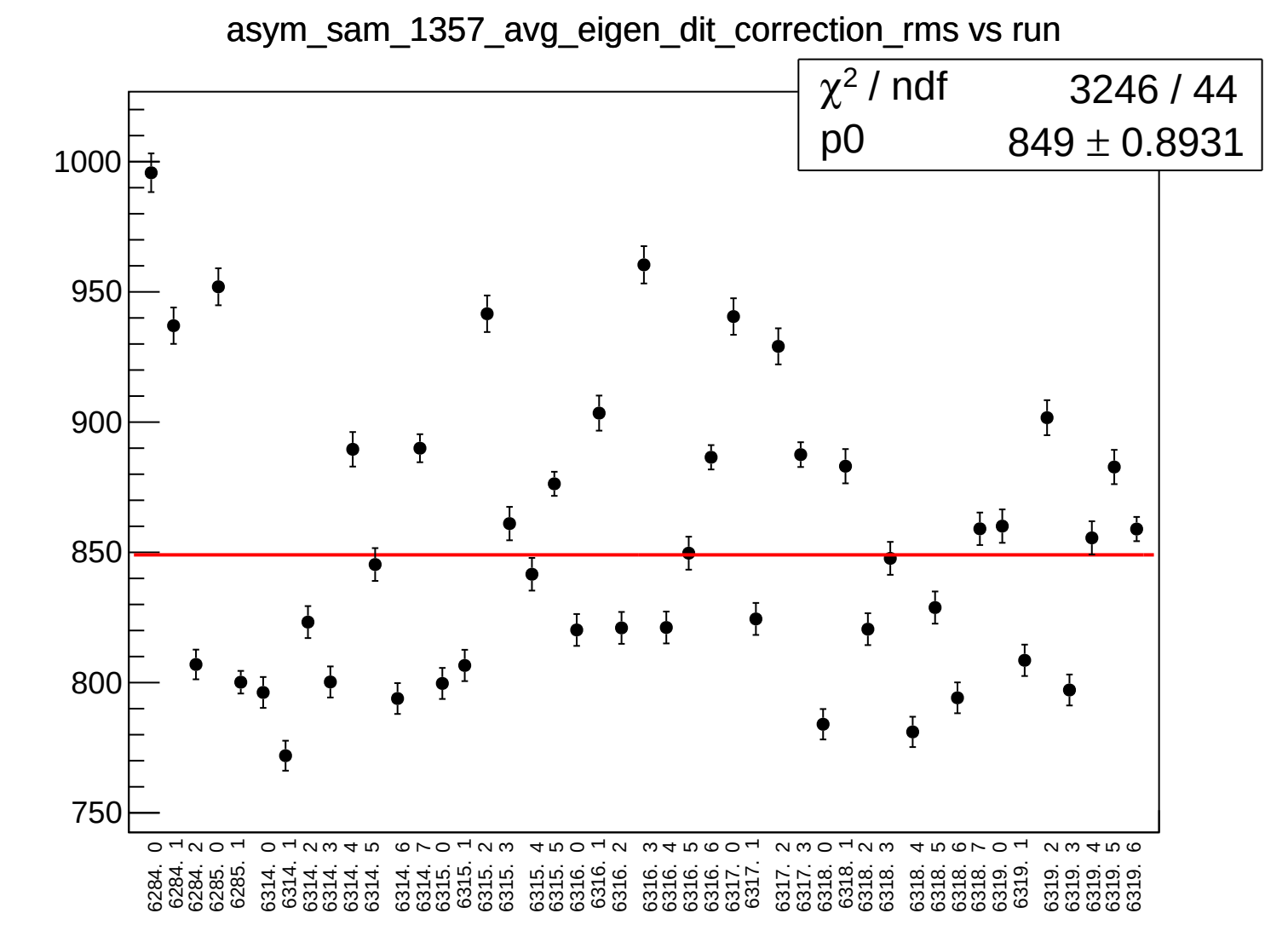
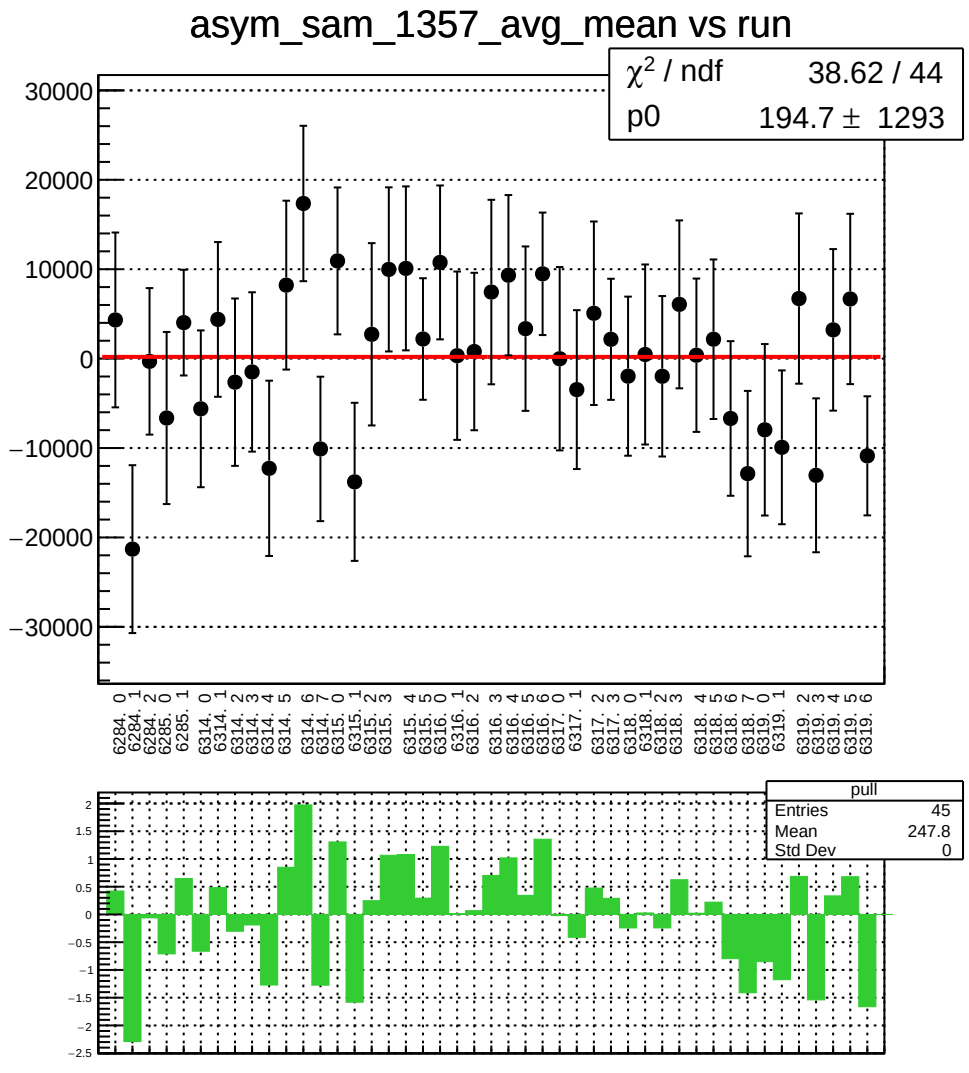
6319. 6
pull
Entries 45
Mean −8.003
Std Dev 0
3
2
1
0
−1
−2

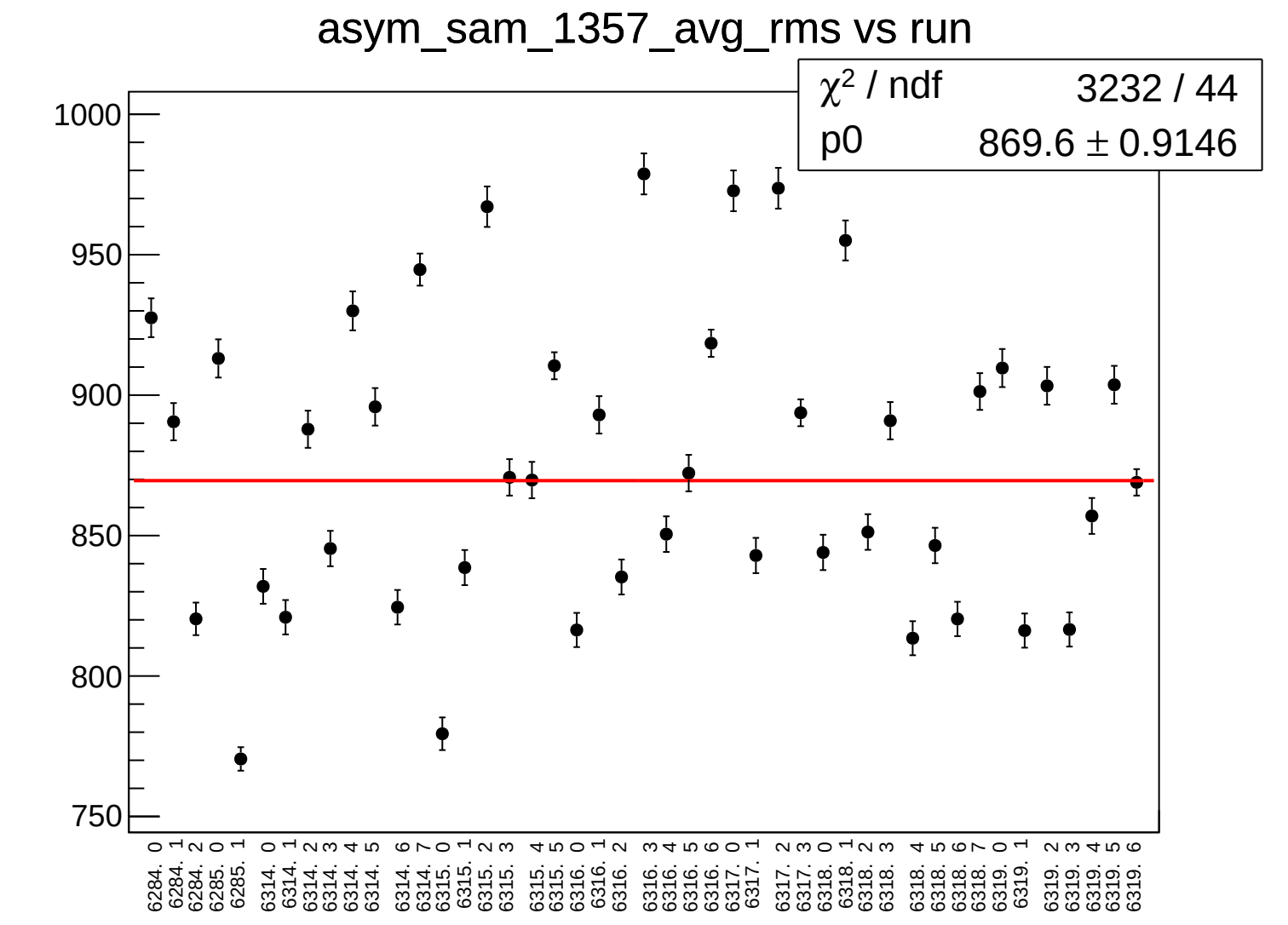

pull1D
Entries 45
Mean −0.03668
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

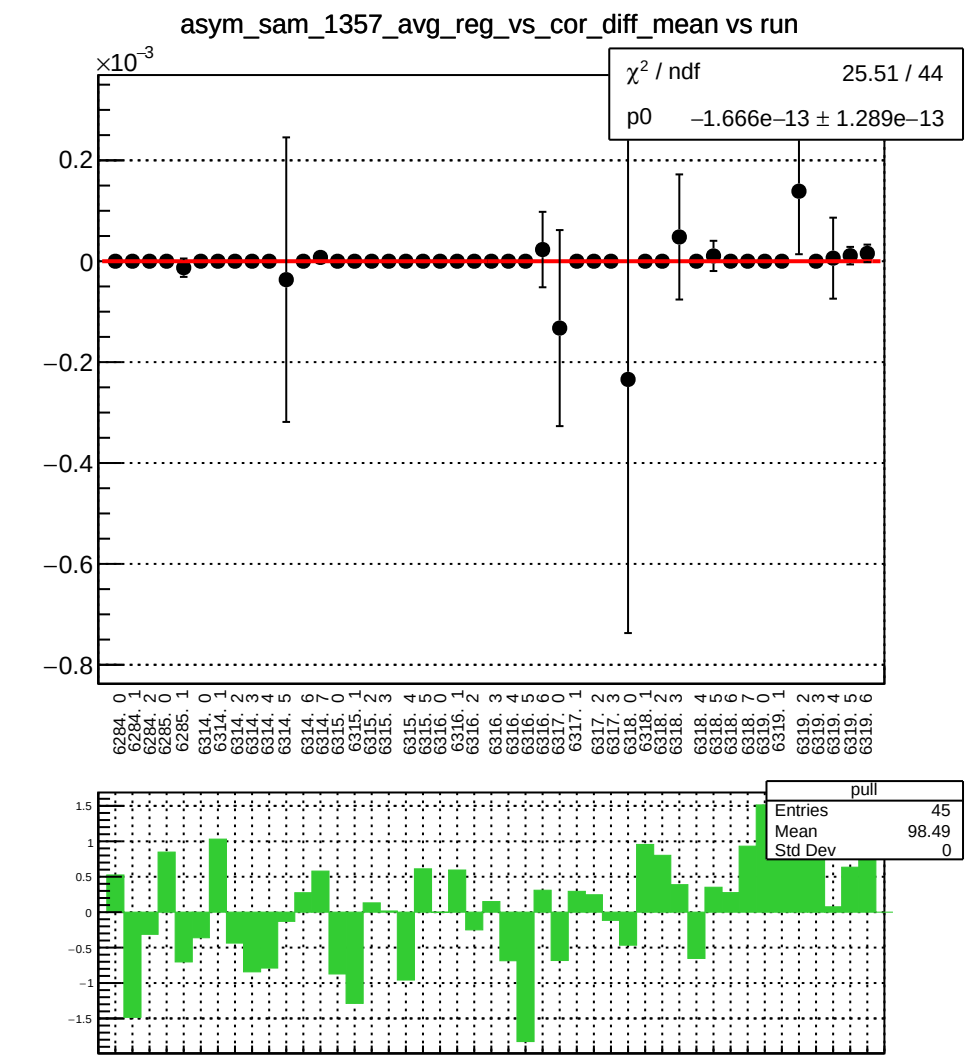

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.99e+04 / 44
p0 85.61 ± 0.09141
150
140
130
120
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

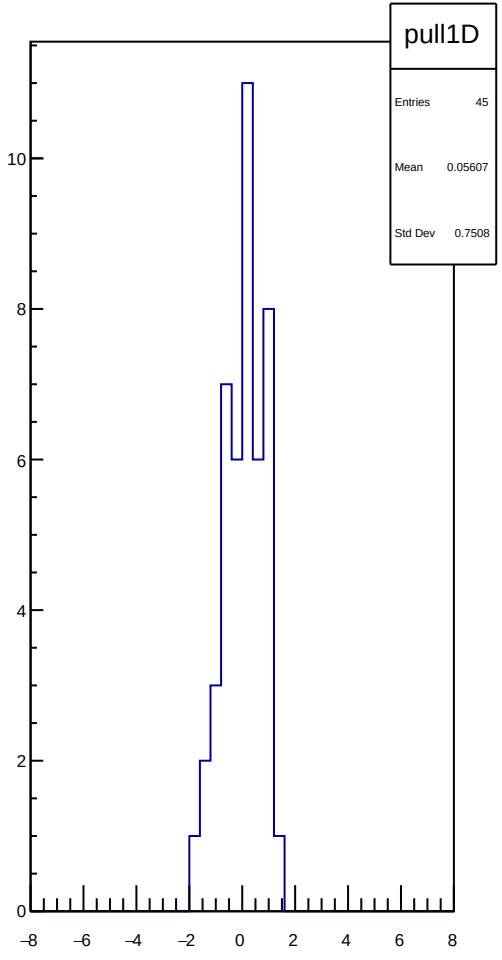

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.88 / 44
p0 −376.6 ± 1263
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 2.519e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 5.422e−05
Std Dev 0.9413
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

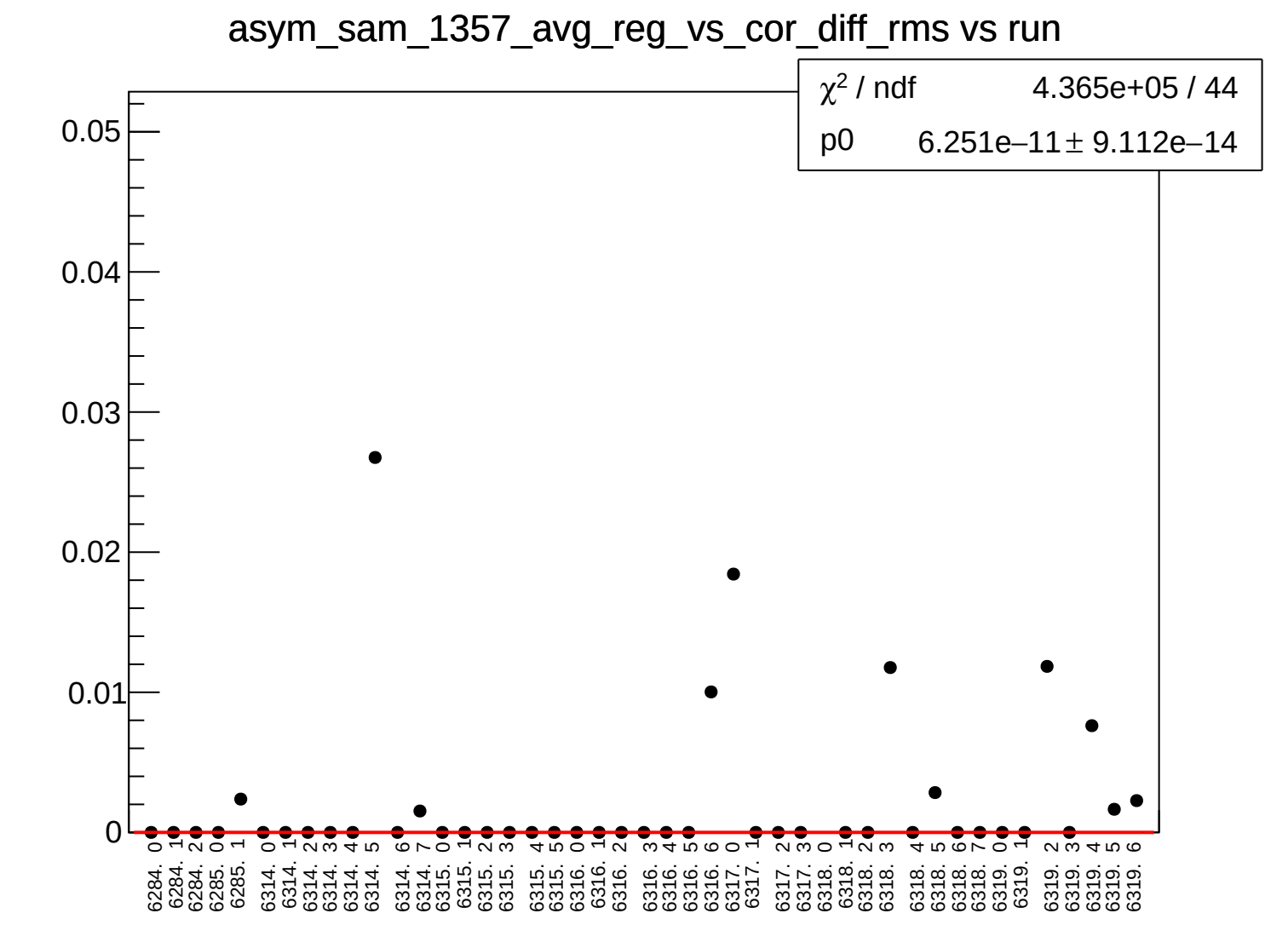

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3246 / 44
p0 849 ± 0.8931
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

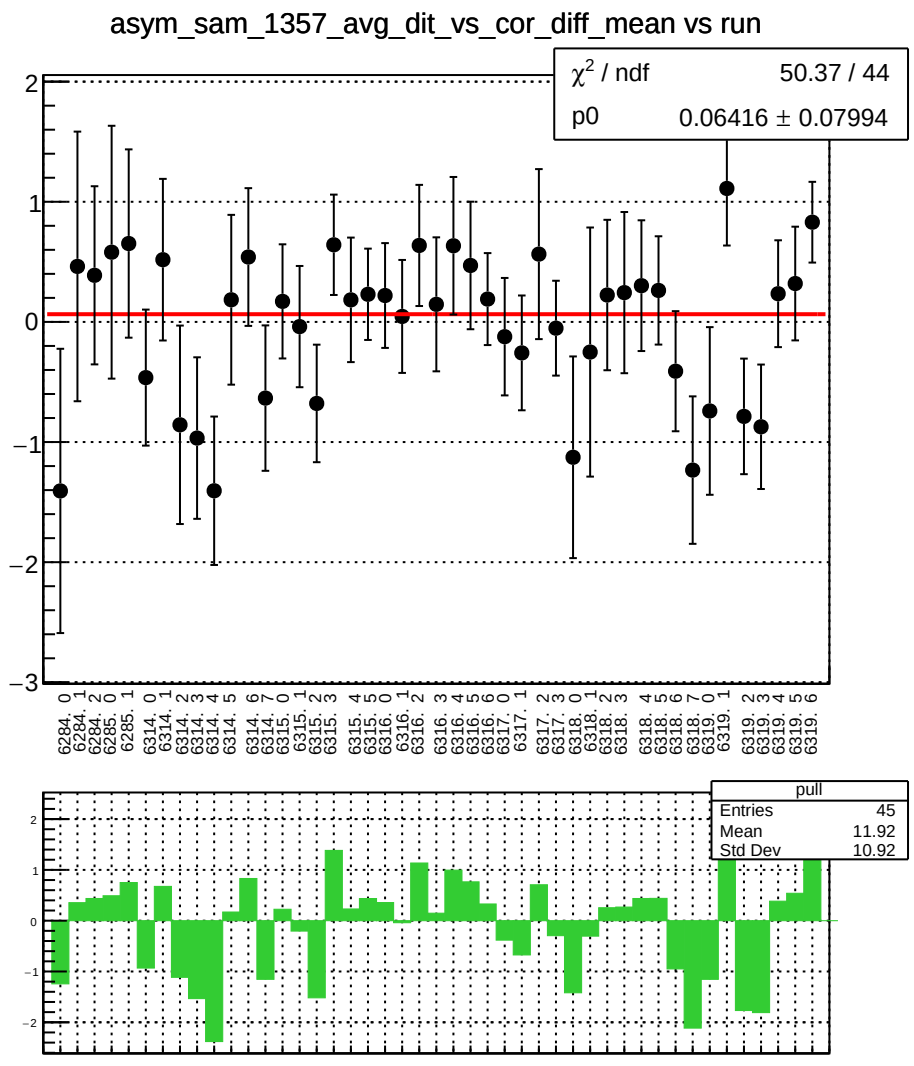

asym_sam_1357_avg_mean vs run
χ² / ndf 38.62 / 44
p0 194.7 ± 1293
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 247.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.005098
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

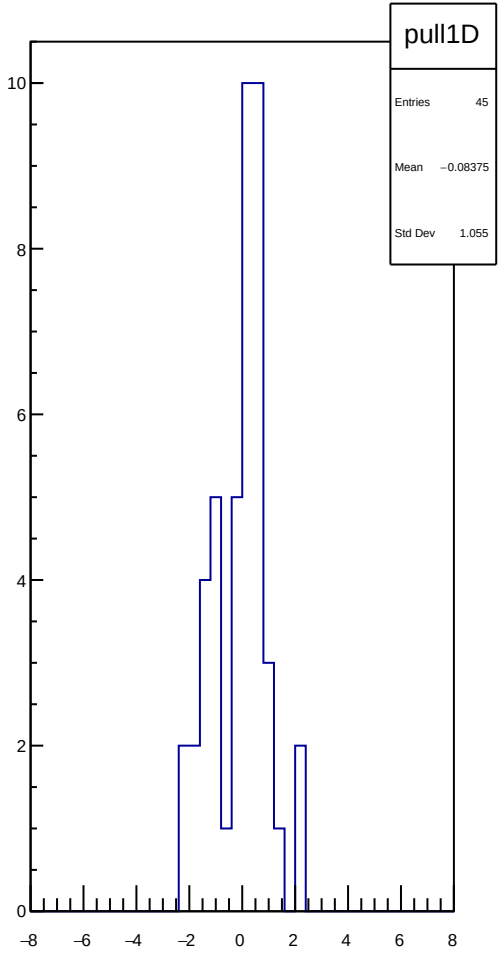

asym_sam_1357_avg_rms vs run
χ² / ndf 3232 / 44
p0 869.6 ± 0.9146
1000
950
900
850
800
750
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

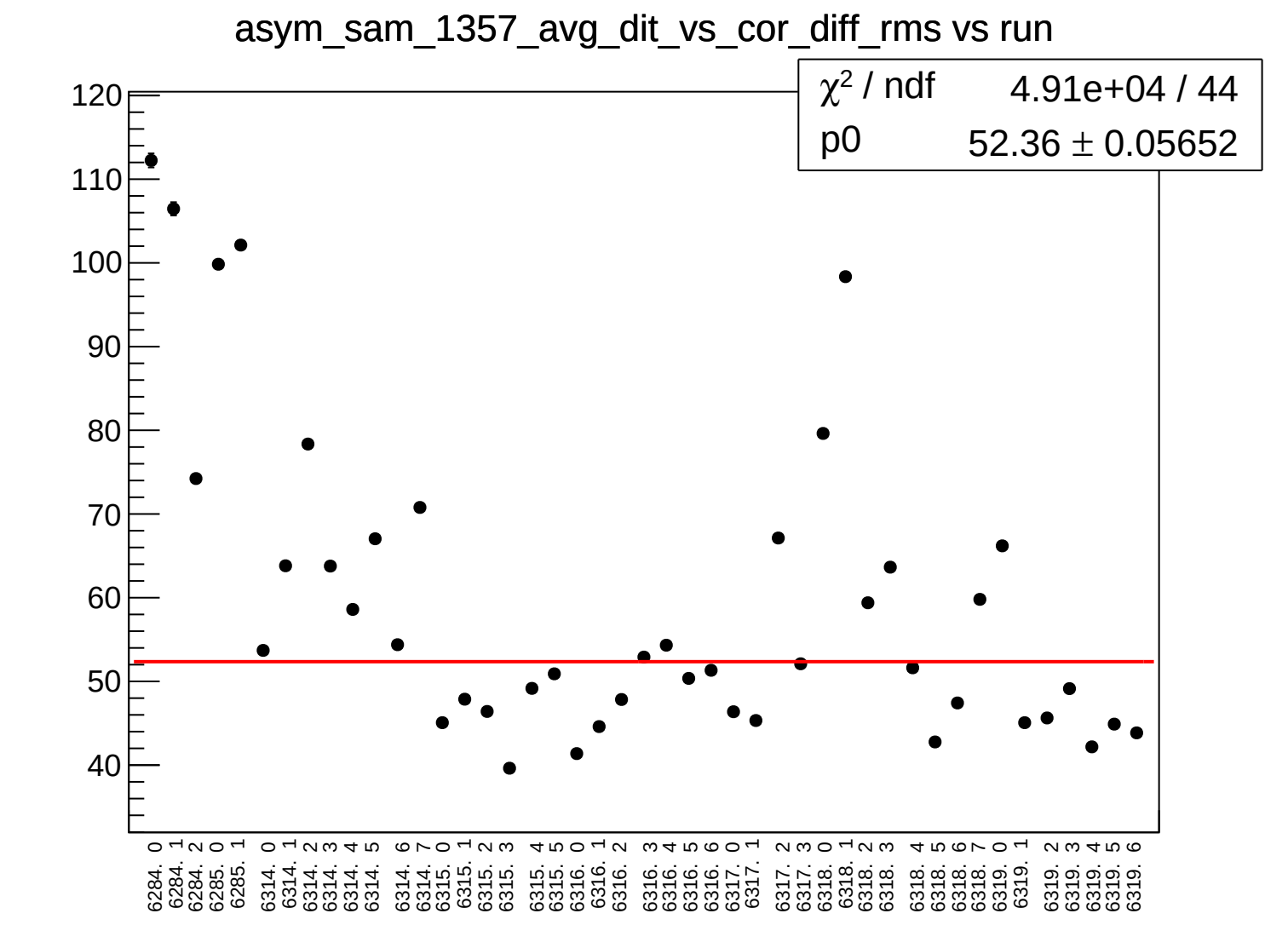

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 25.51 / 44
p0 −1.666e−13 ± 1.289e−13
0.2
0
−0.2
−0.4
−0.6
−0.8
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 98.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

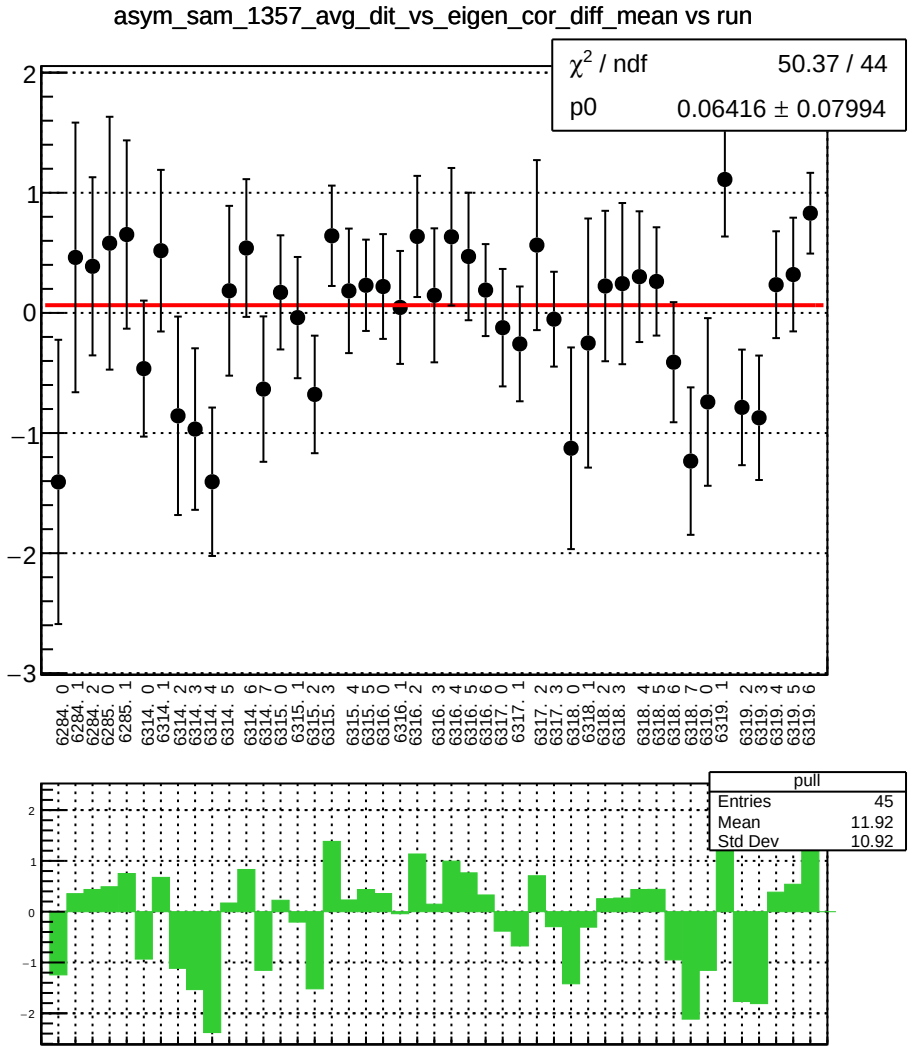

pull1D
Entries 45
Mean 0.05607
Std Dev 0.7508
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

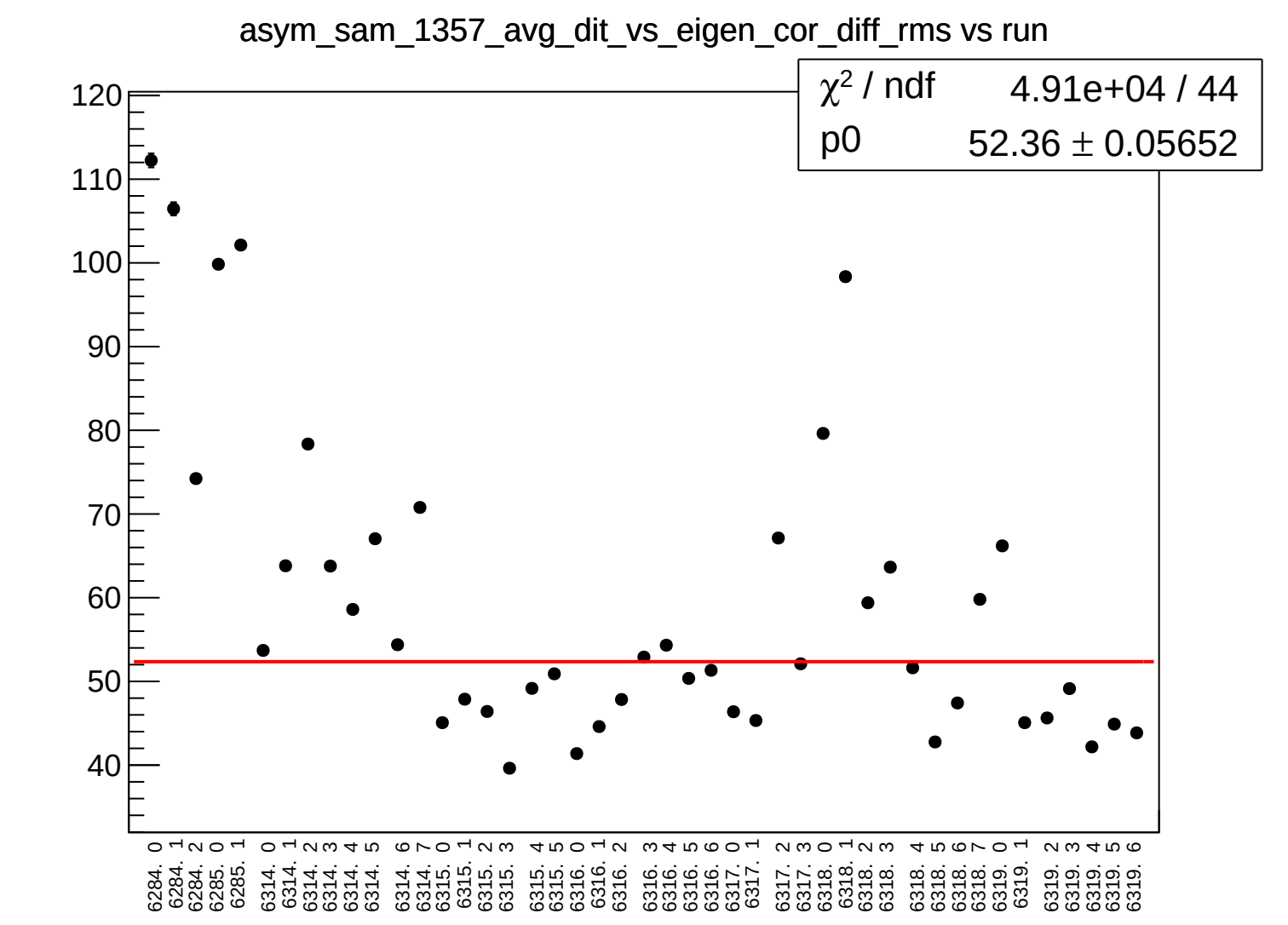

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.365e+05 / 44
p0 6.251e−11 ± 9.112e−14
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

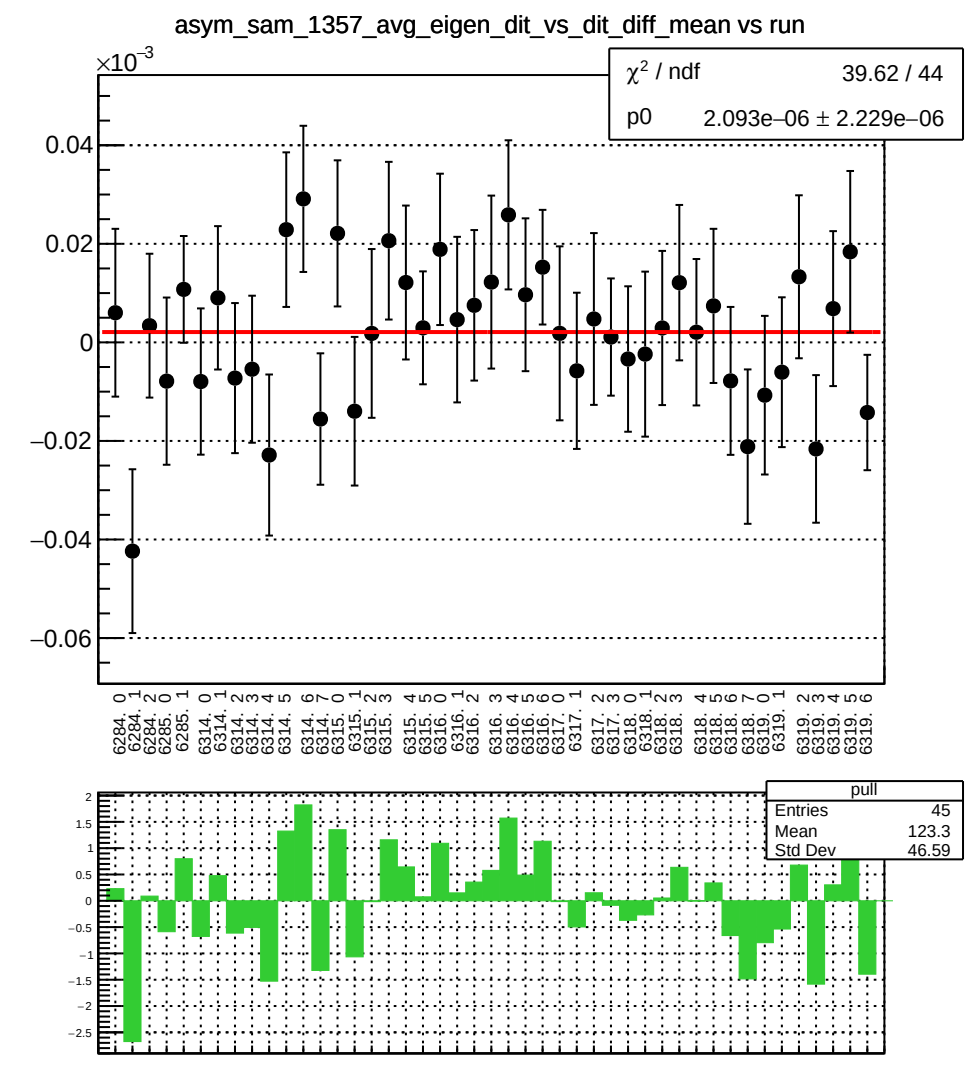

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.37 / 44
p0 0.06416 ± 0.07994
pull
Entries 45
Mean 11.92
Std Dev 10.92

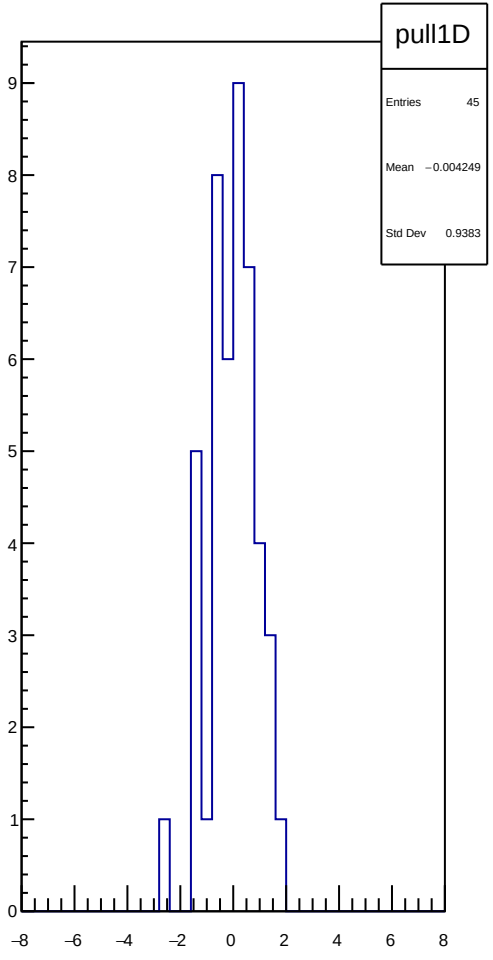

pull1D
Entries 45
Mean −0.08375
Std Dev 1.055

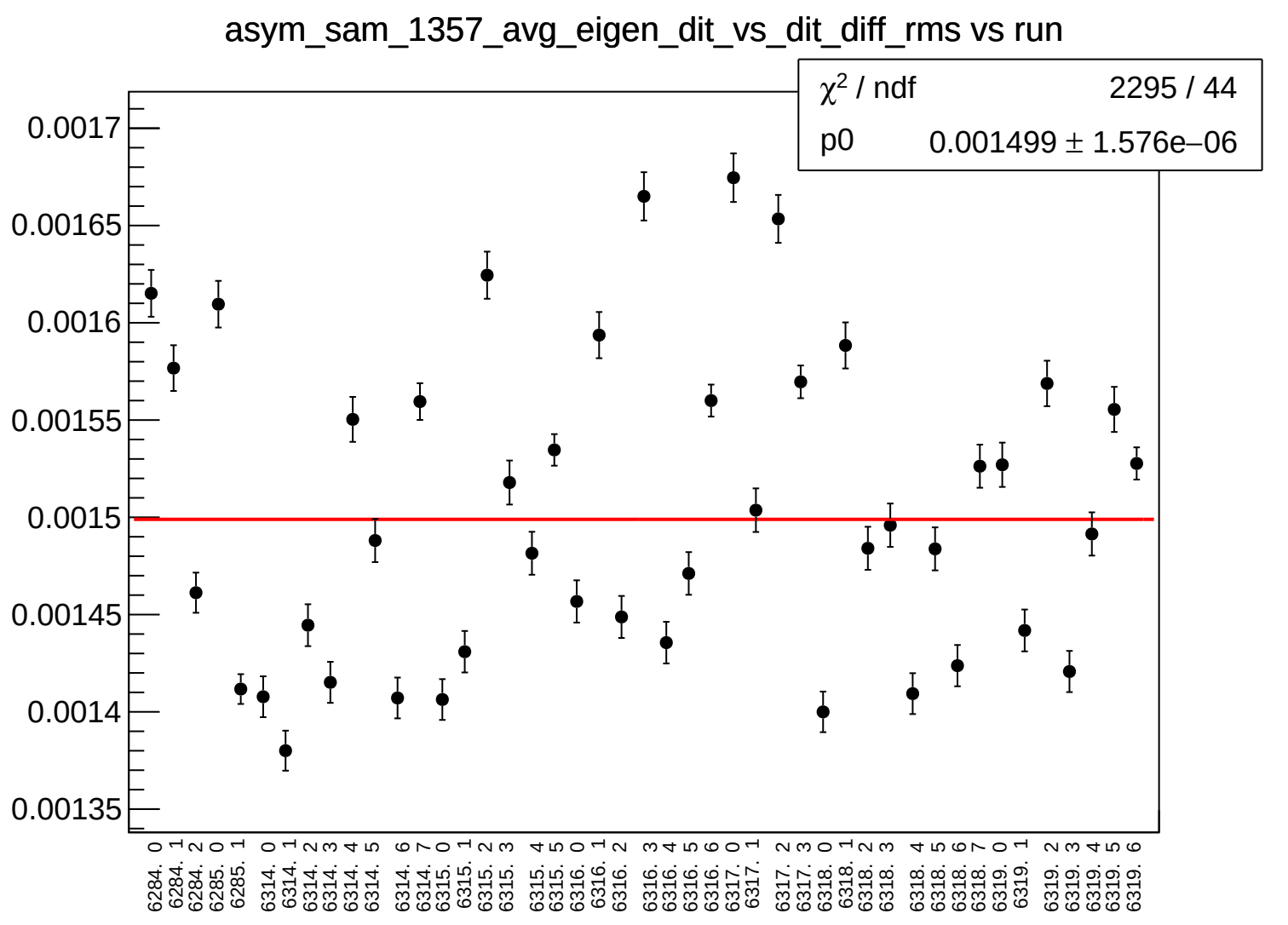

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.91e+04 / 44
p0 52.36 ± 0.05652
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.37 / 44
p0 0.06416 ± 0.07994
pull
Entries 45
Mean 11.92
Std Dev 10.92
pull1D
Entries 45
Mean −0.08375
Std Dev 1.055


asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.91e+04 / 44
p0 52.36 ± 0.05652
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.62 / 44
p0 2.093e−06 ± 2.229e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 123.3
Std Dev 46.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.004249
Std Dev 0.9383
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2295 / 44
p0 0.001499 ± 1.576e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
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6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
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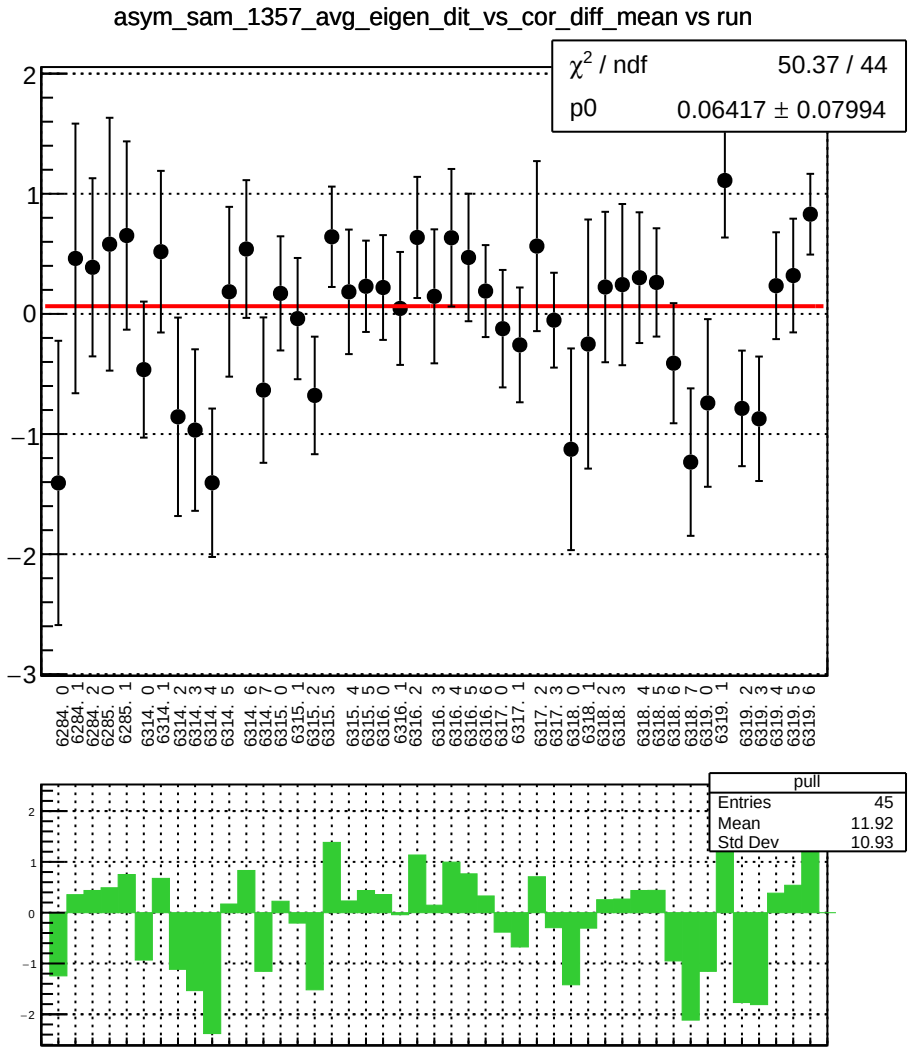
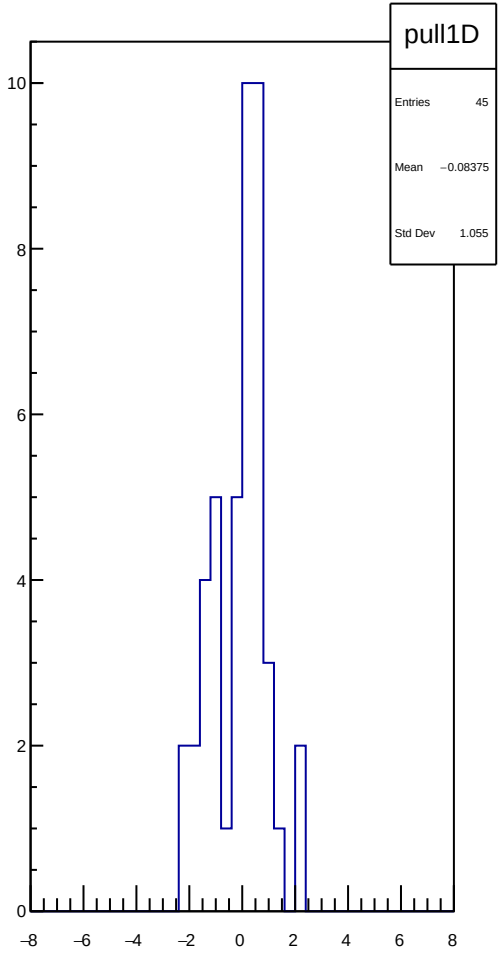
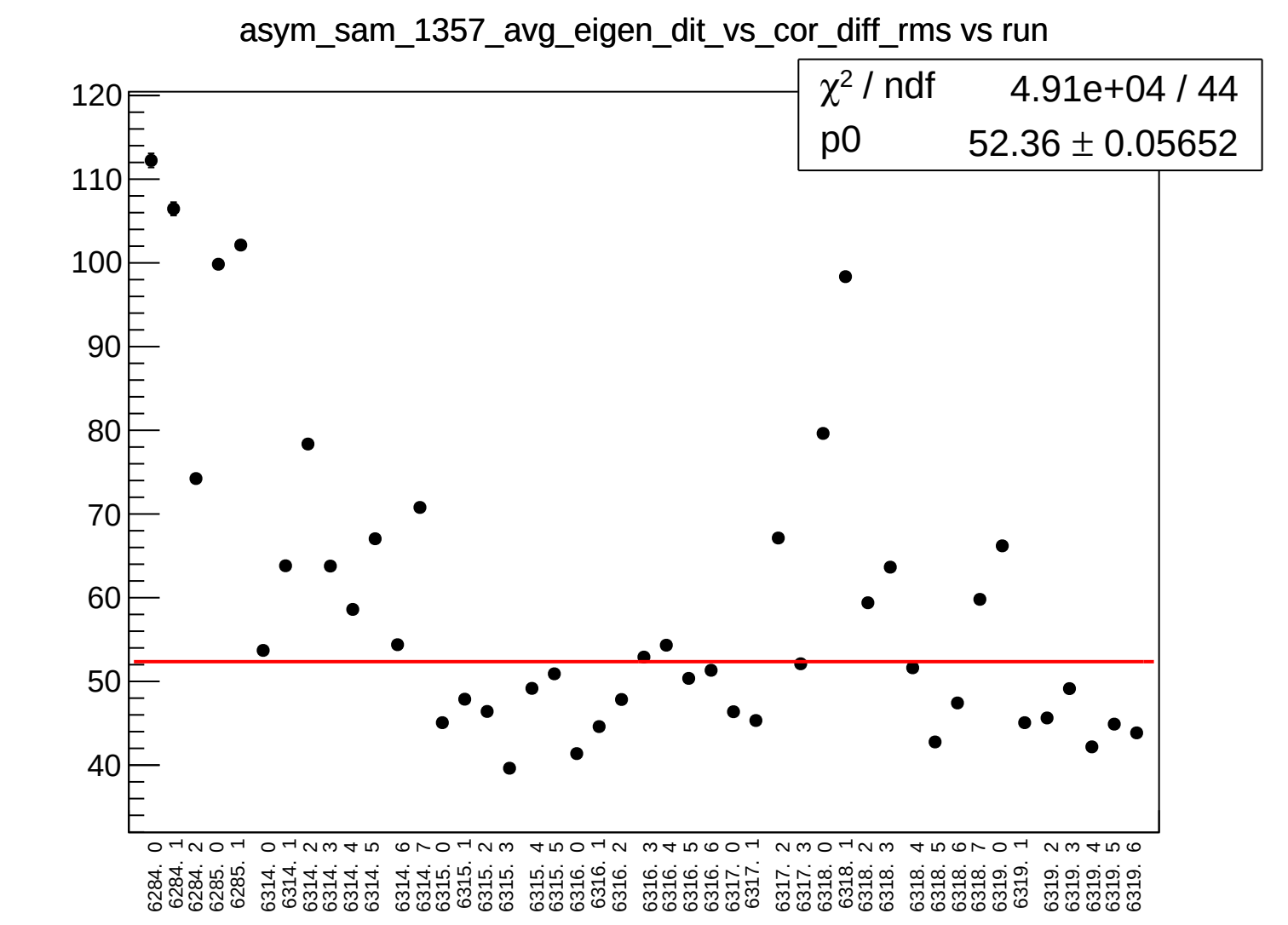
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.37 / 44
p0 0.06417 ± 0.07994
pull
Entries 45
Mean 11.92
Std Dev 10.93


pull1D
Entries 45
Mean −0.08375
Std Dev 1.055


asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.91e+04 / 44
p0 52.36 ± 0.05652
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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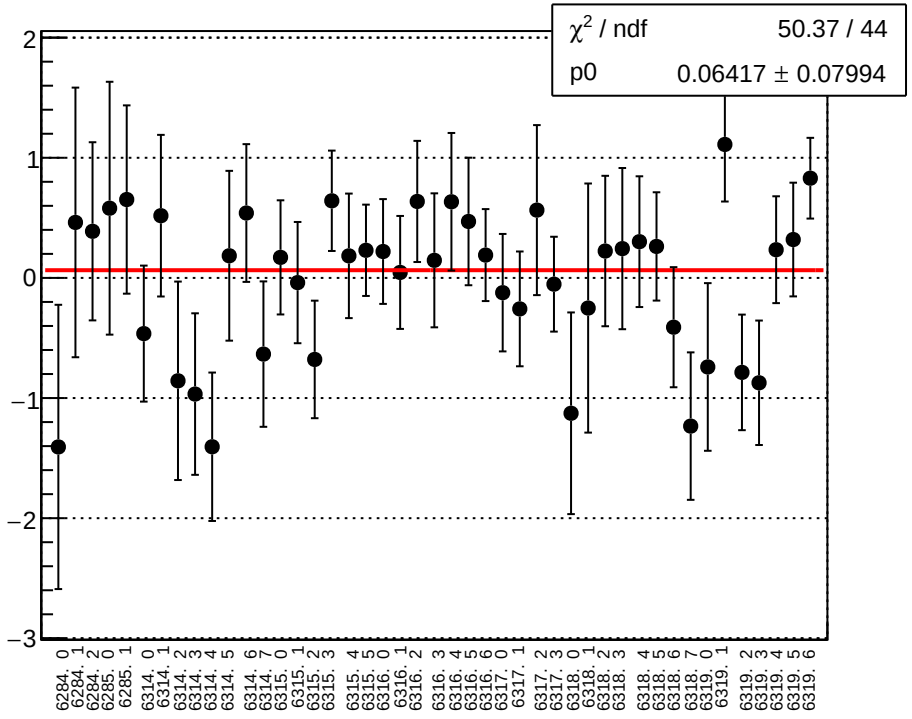
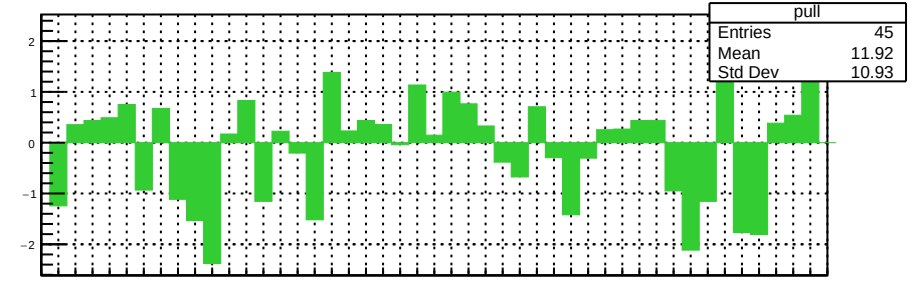
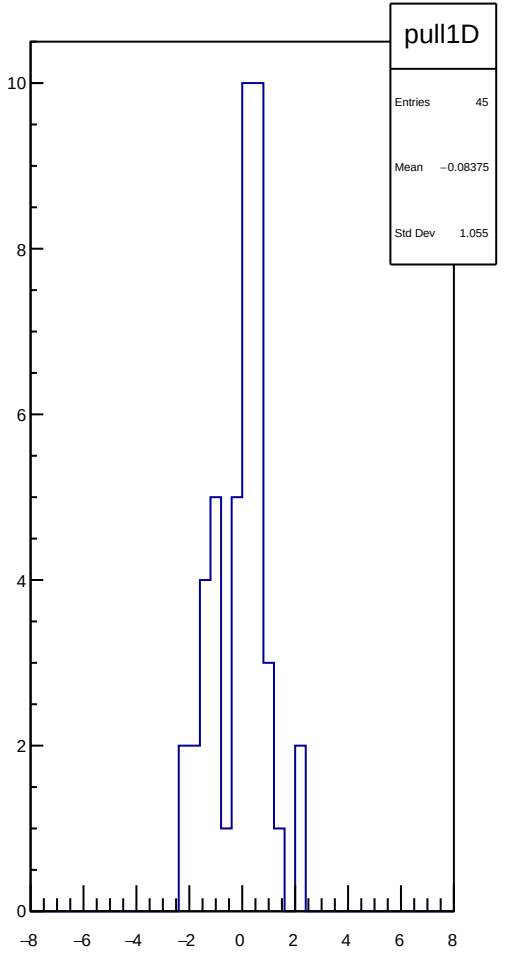
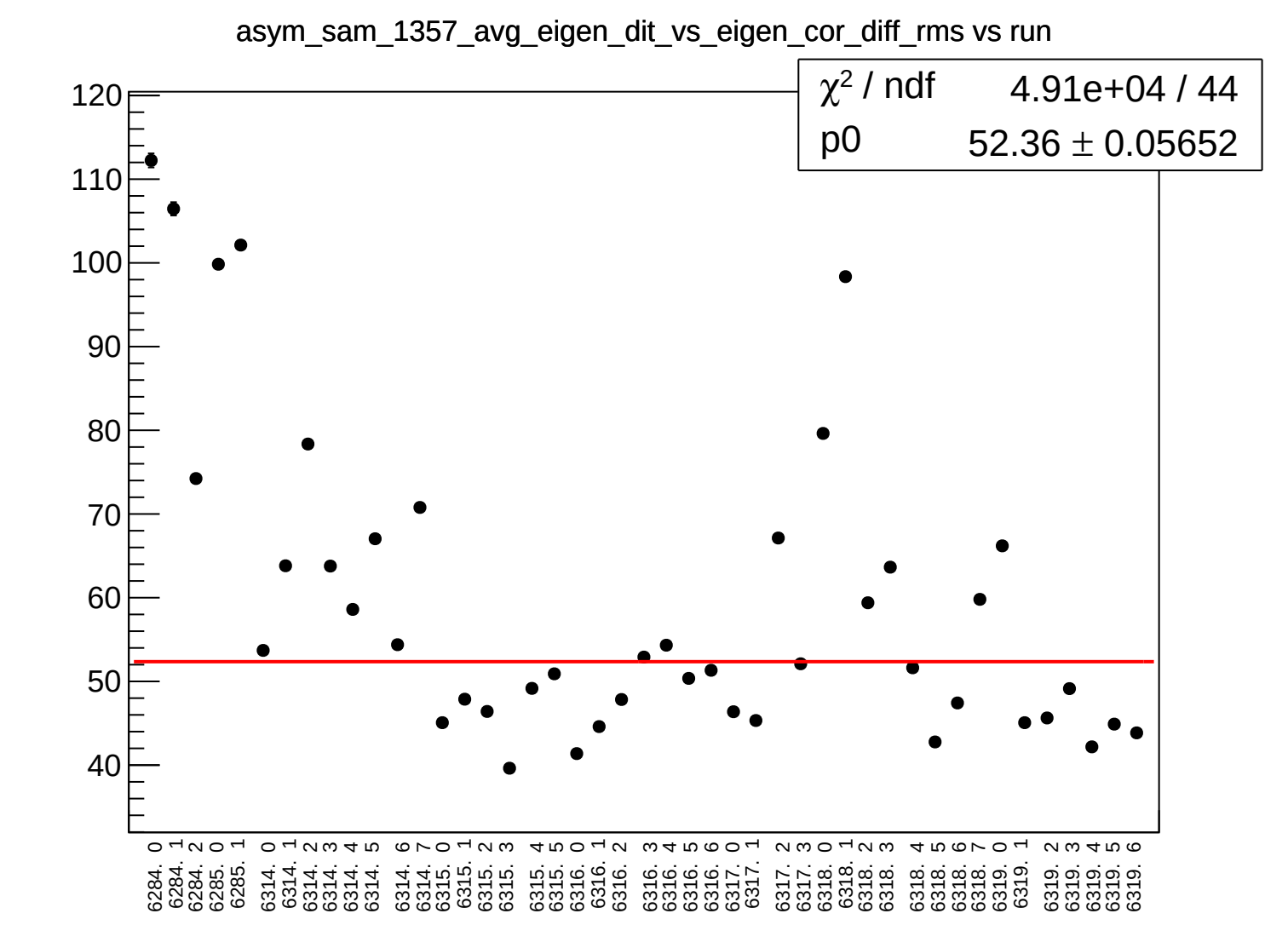
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

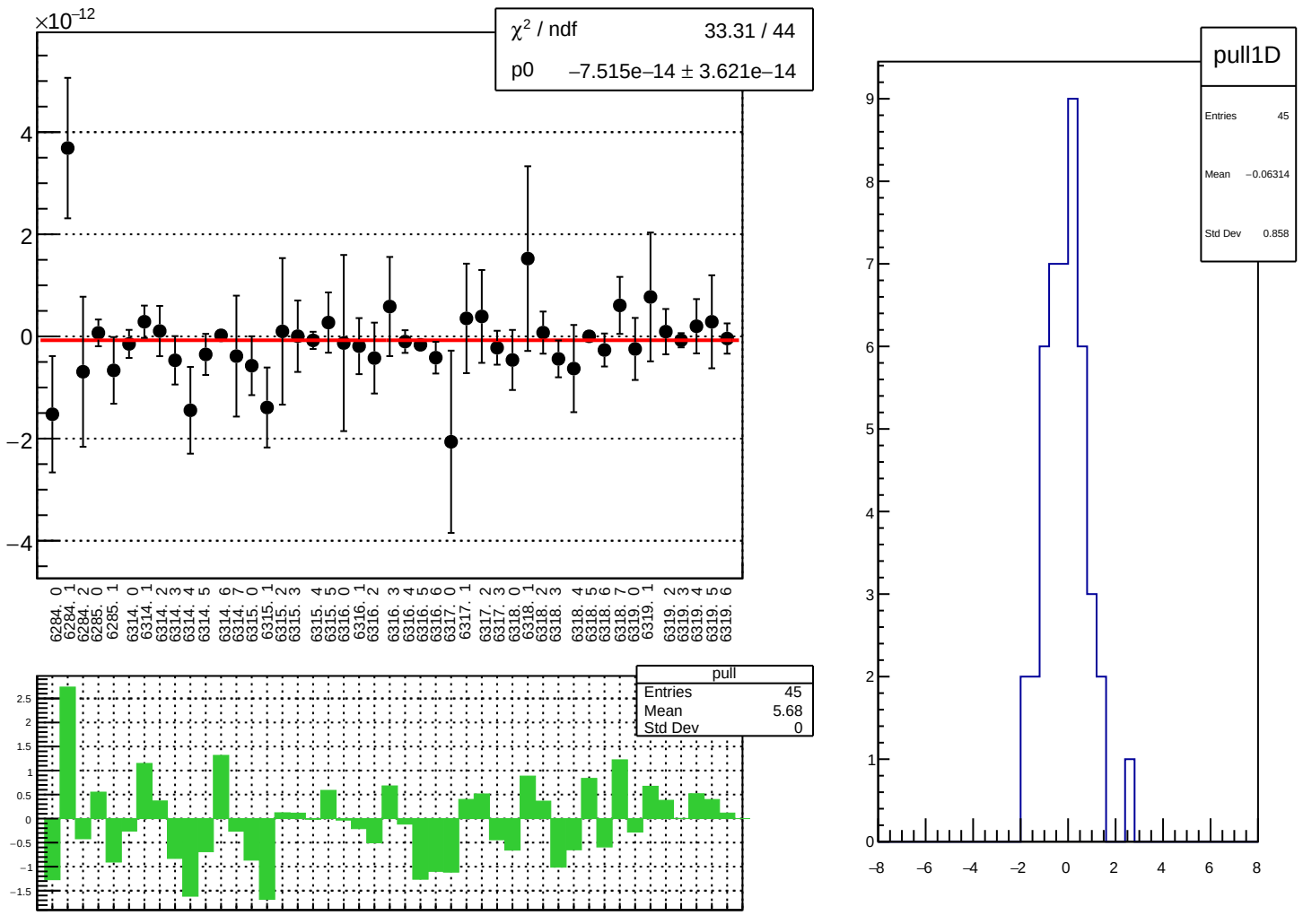
asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

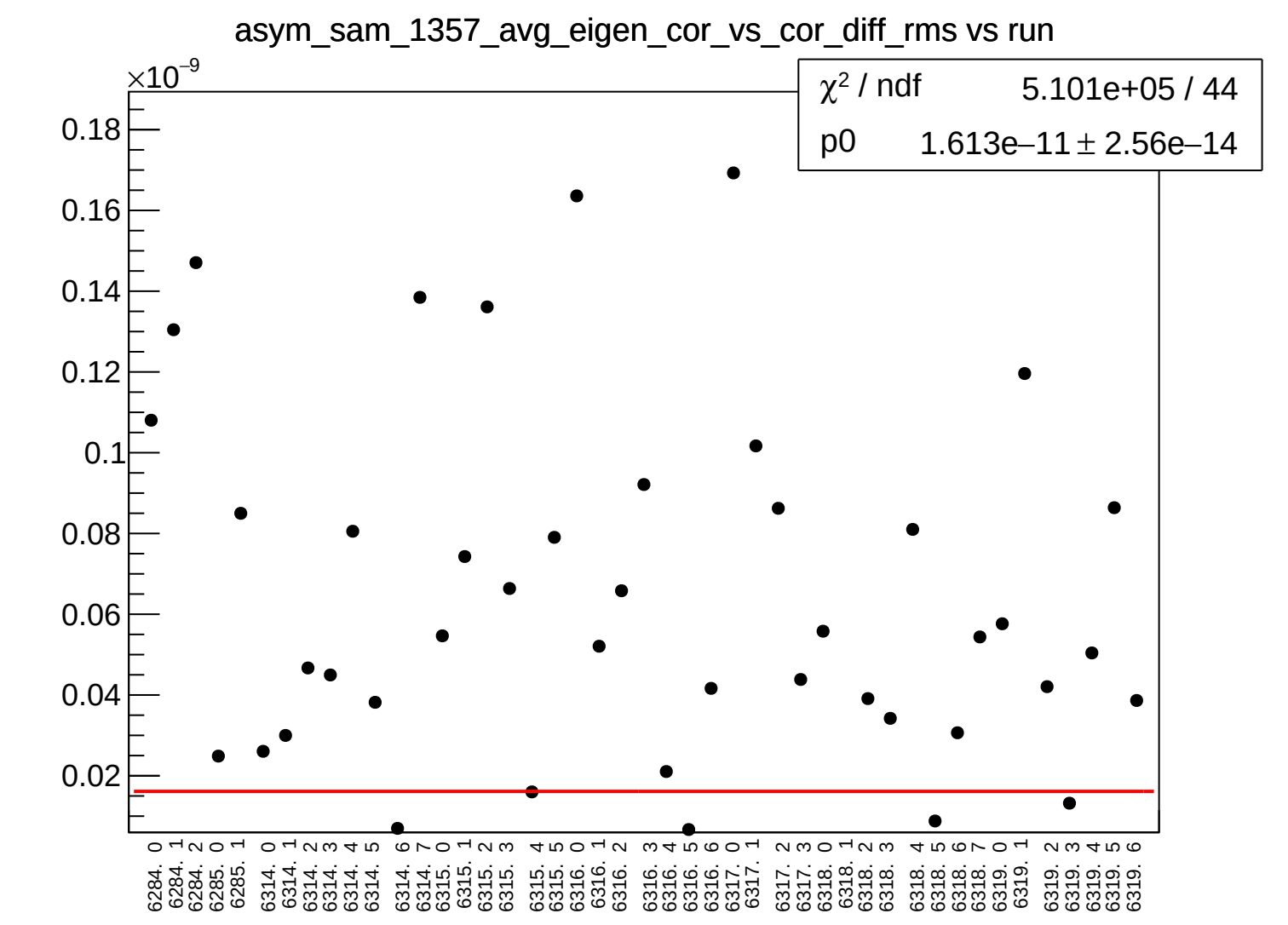


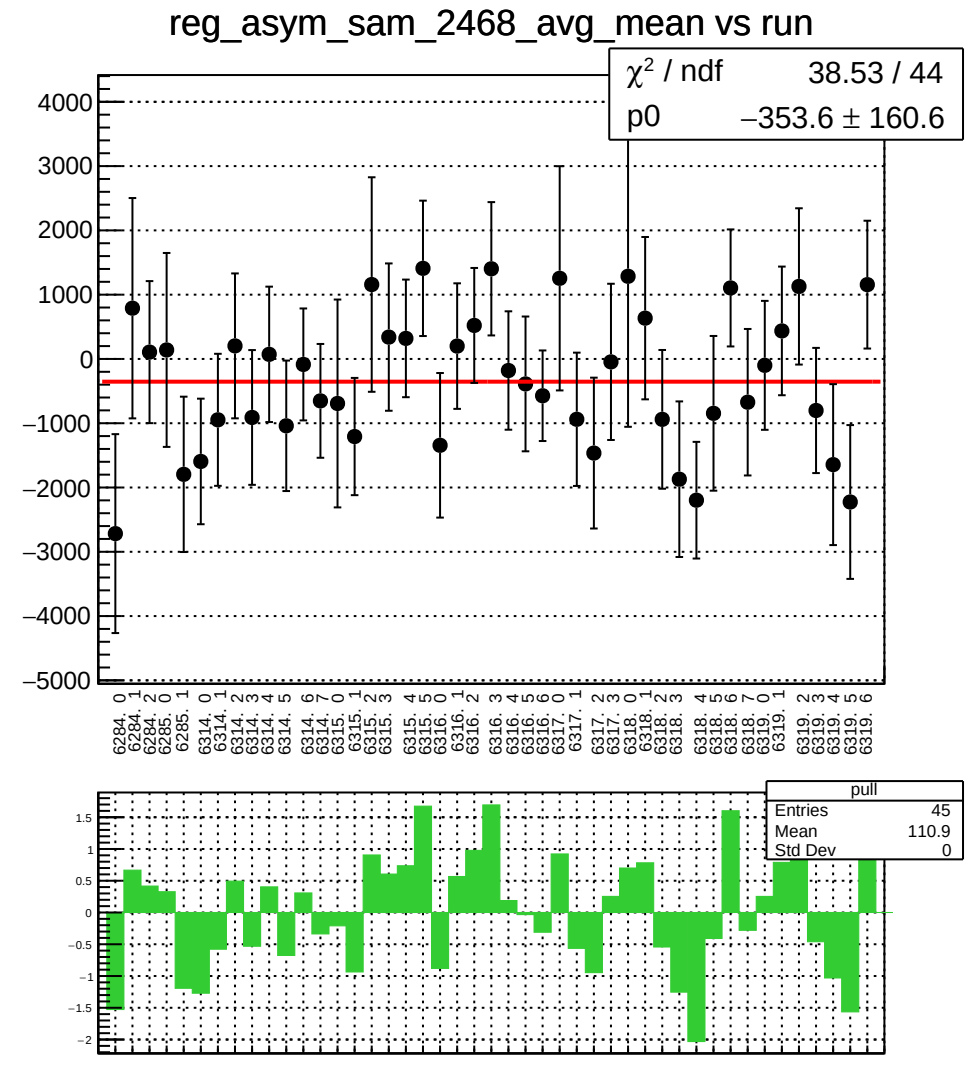


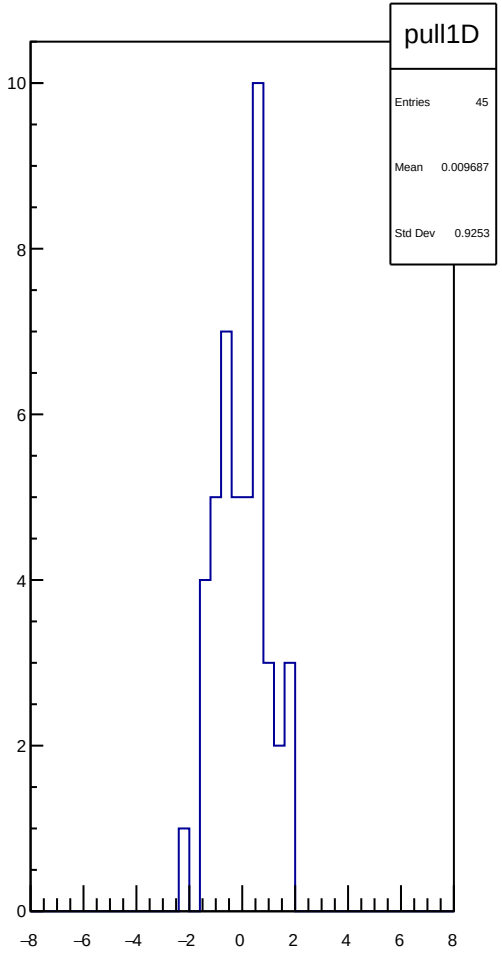


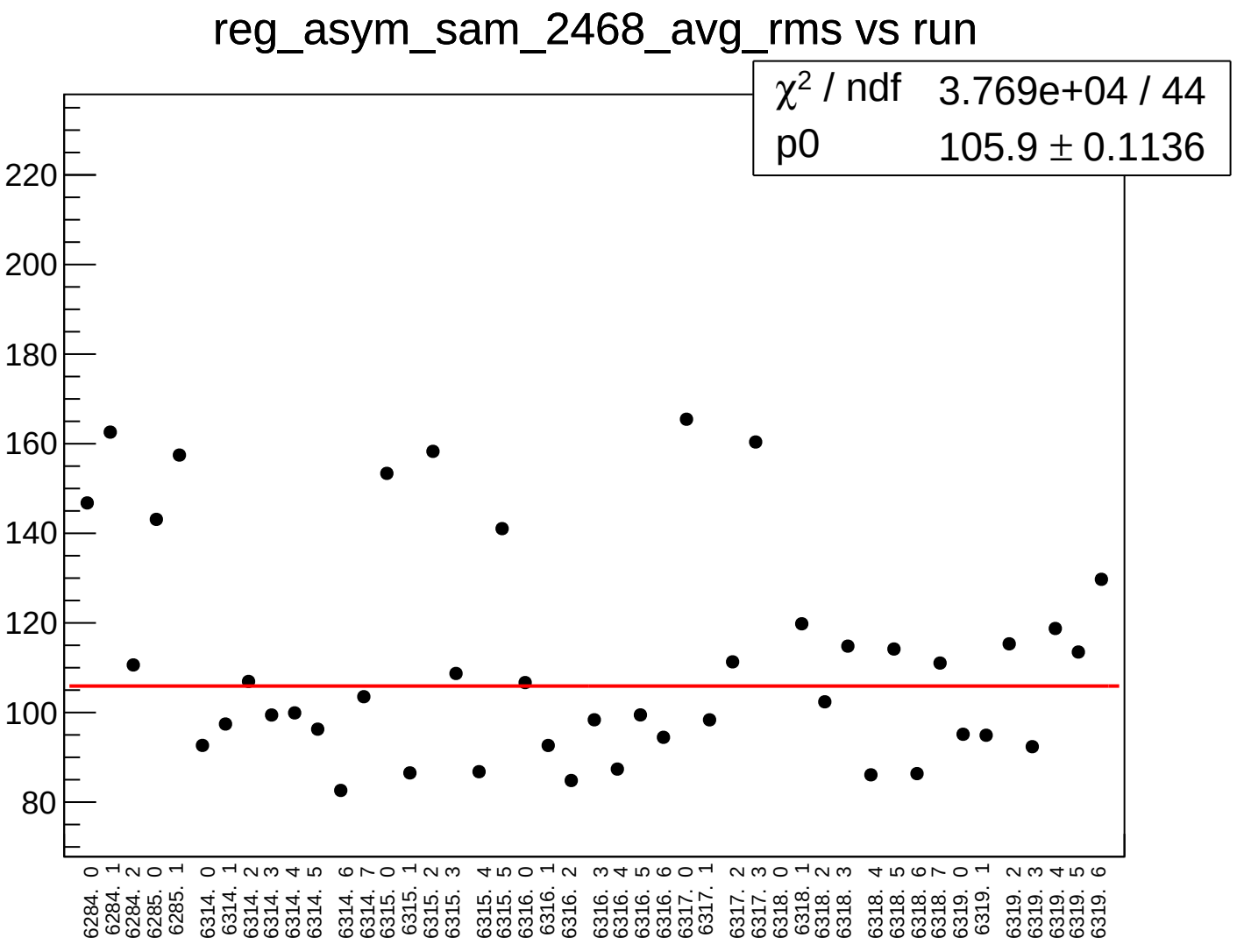

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.91e+04 / 44
p0 52.36 ± 0.05652
120
110
100
90
80
70
60
50
40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

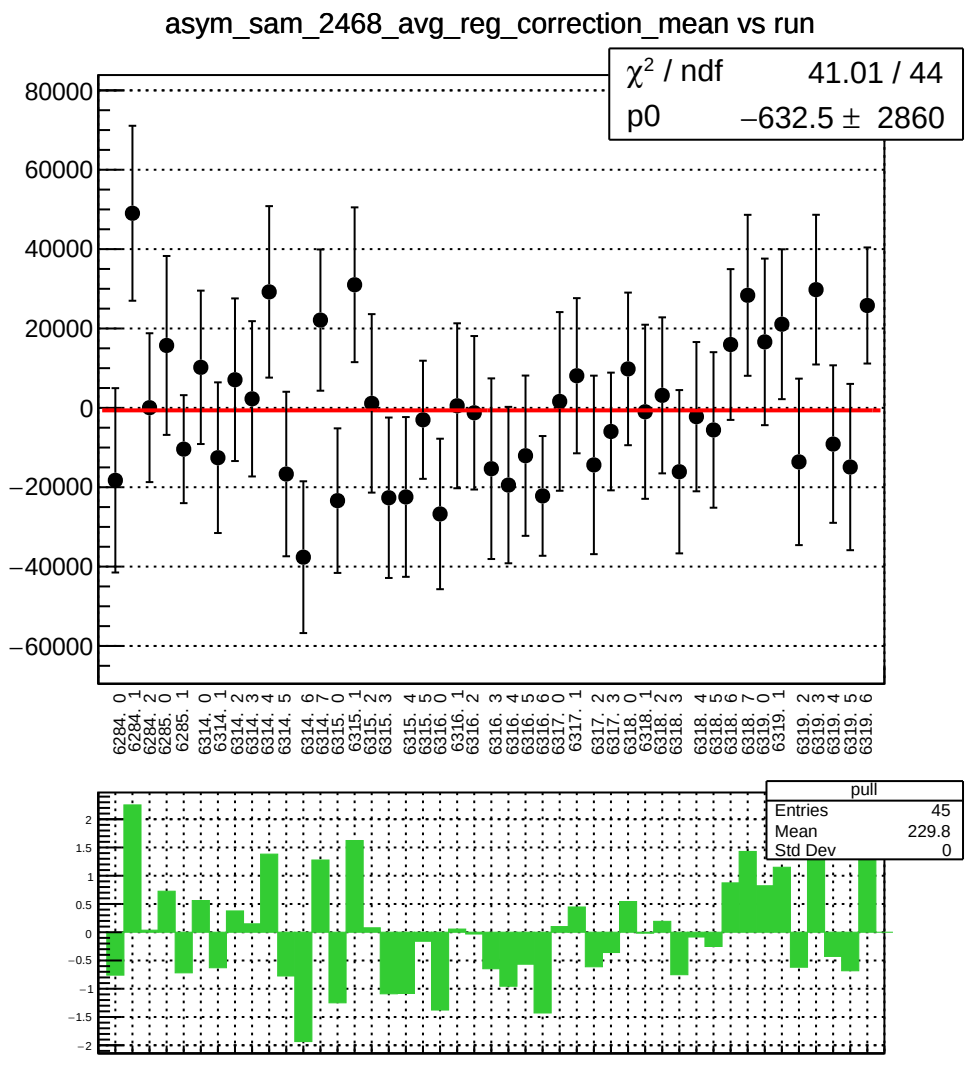

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.31 / 44
p0 −7.515e−14 ± 3.621e−14
4
2
0
−2
−4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.06314
Std Dev 0.858
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

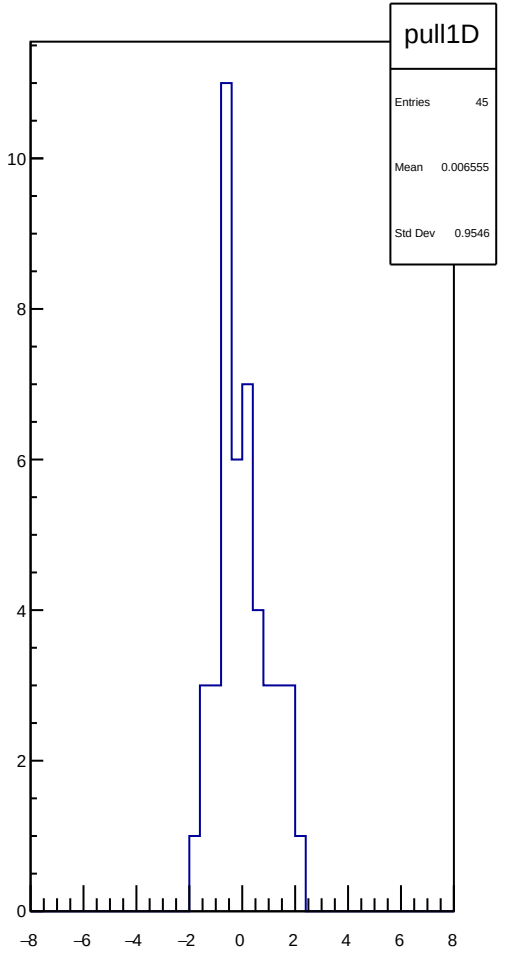

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.101e+05 / 44
p0 1.613e−11 ± 2.56e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

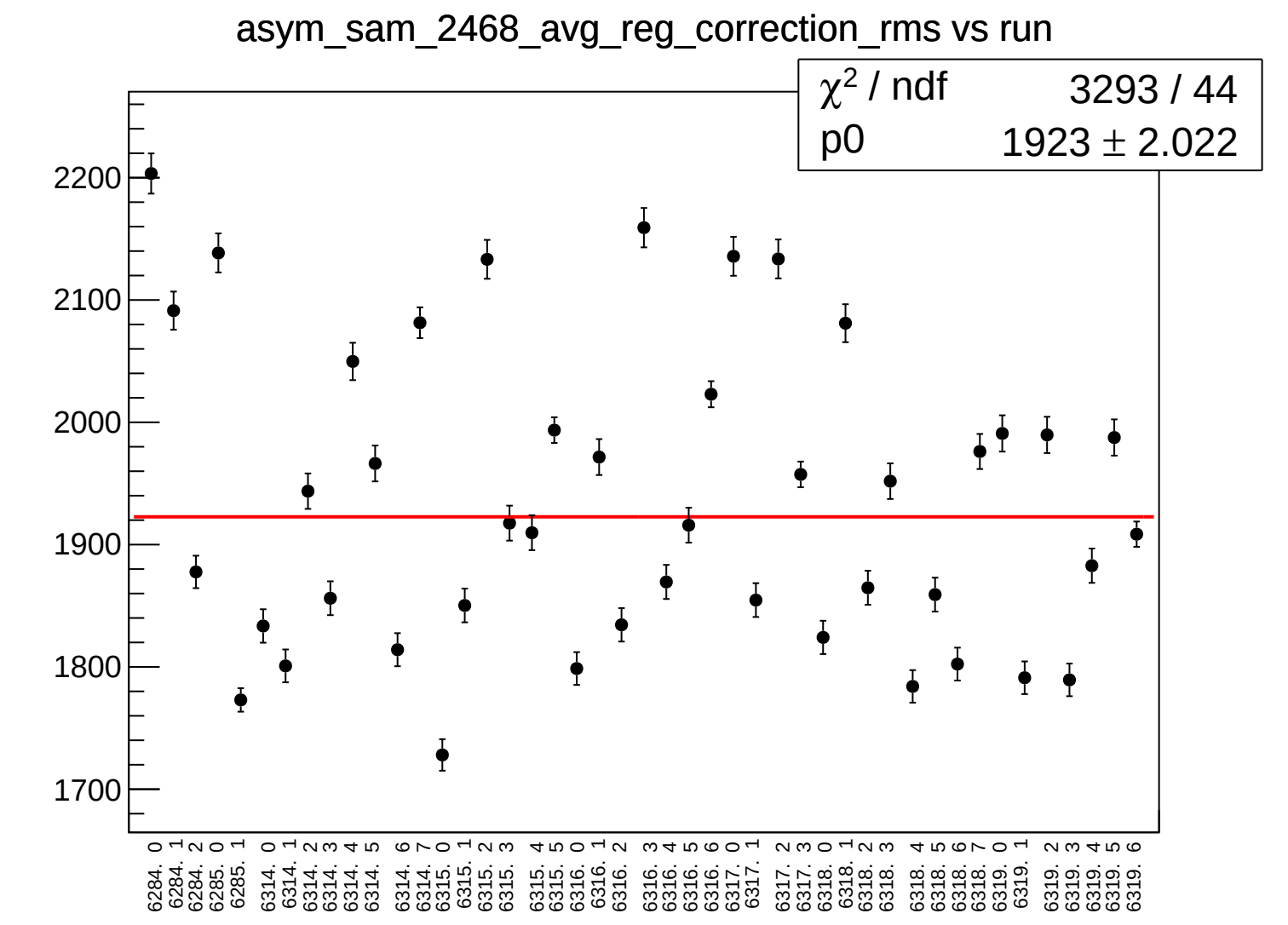

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 38.53 / 44
p0 −353.6 ± 160.6
pull
Entries 45
Mean 110.9
Std Dev 0

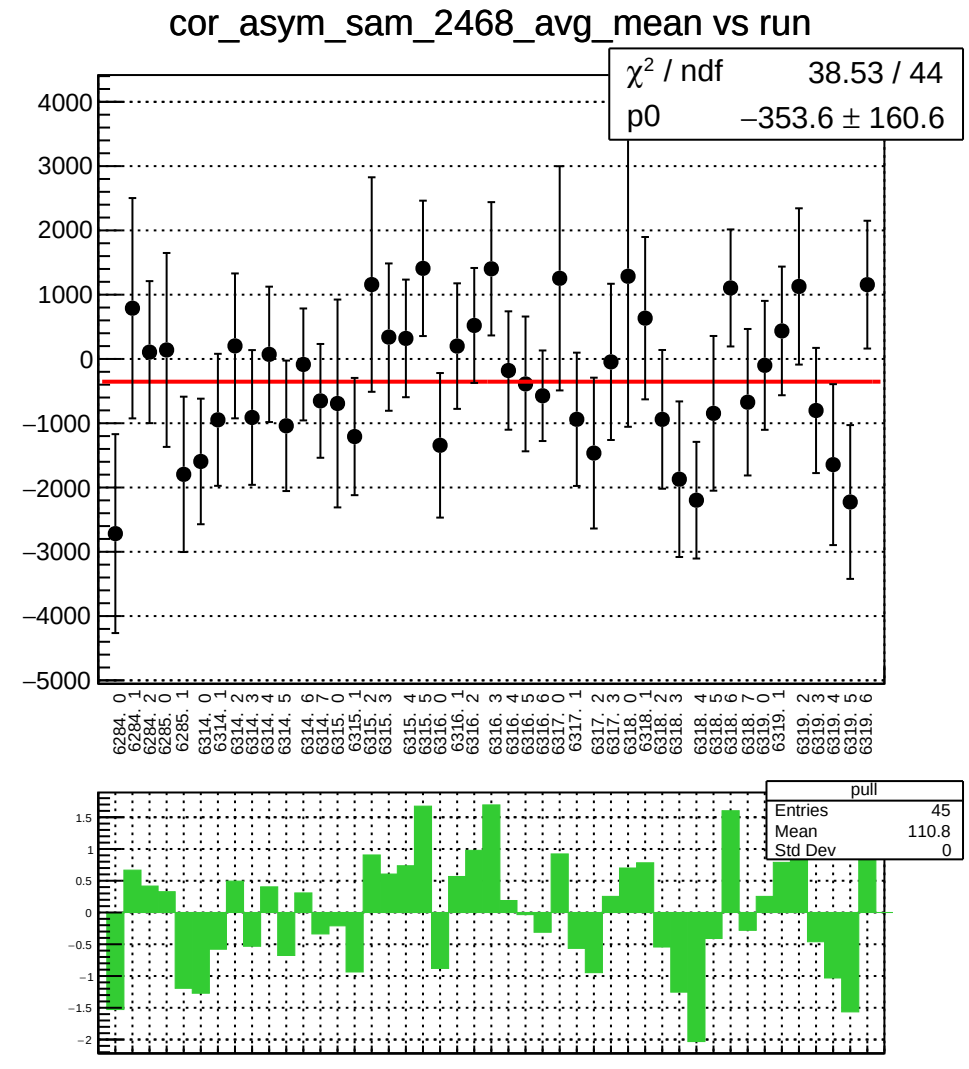

pull1D
Entries 45
Mean 0.009687
Std Dev 0.9253

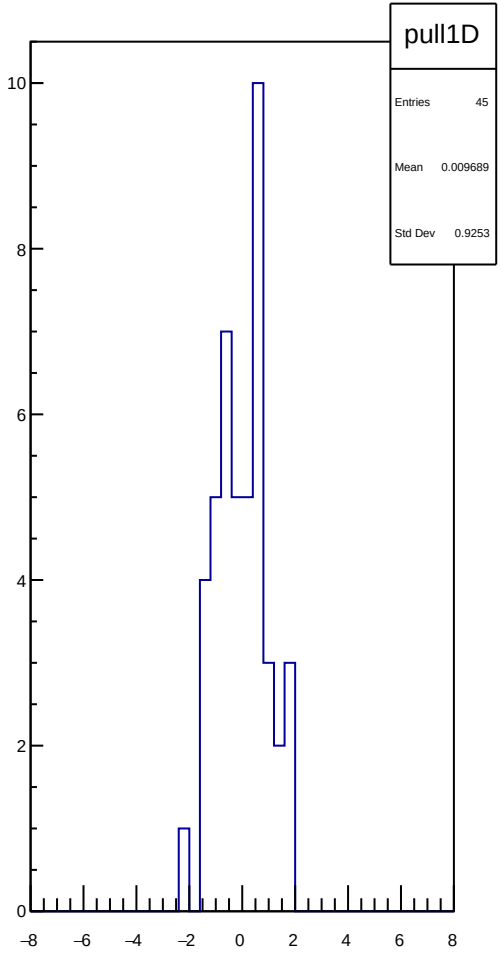

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 3.769e+04 / 44
p0 105.9 ± 0.1136
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

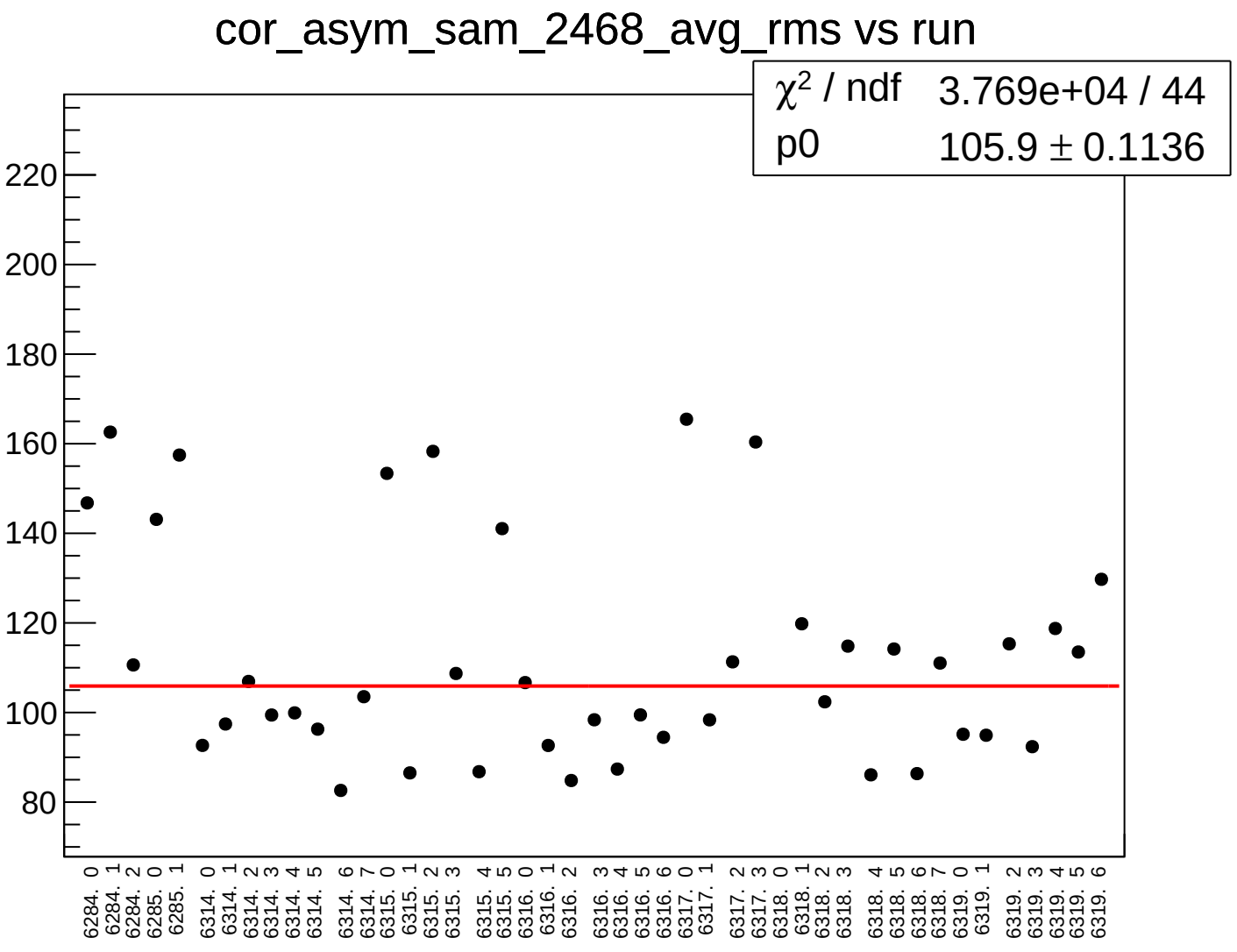

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 41.01 / 44
p0 −632.5 ± 2860
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 229.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.006555
Std Dev 0.9546
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3293 / 44
p0 1923 ± 2.022
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 38.53 / 44
p0 −353.6 ± 160.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 110.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.009689
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.769e+04 / 44
p0 105.9 ± 0.1136
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
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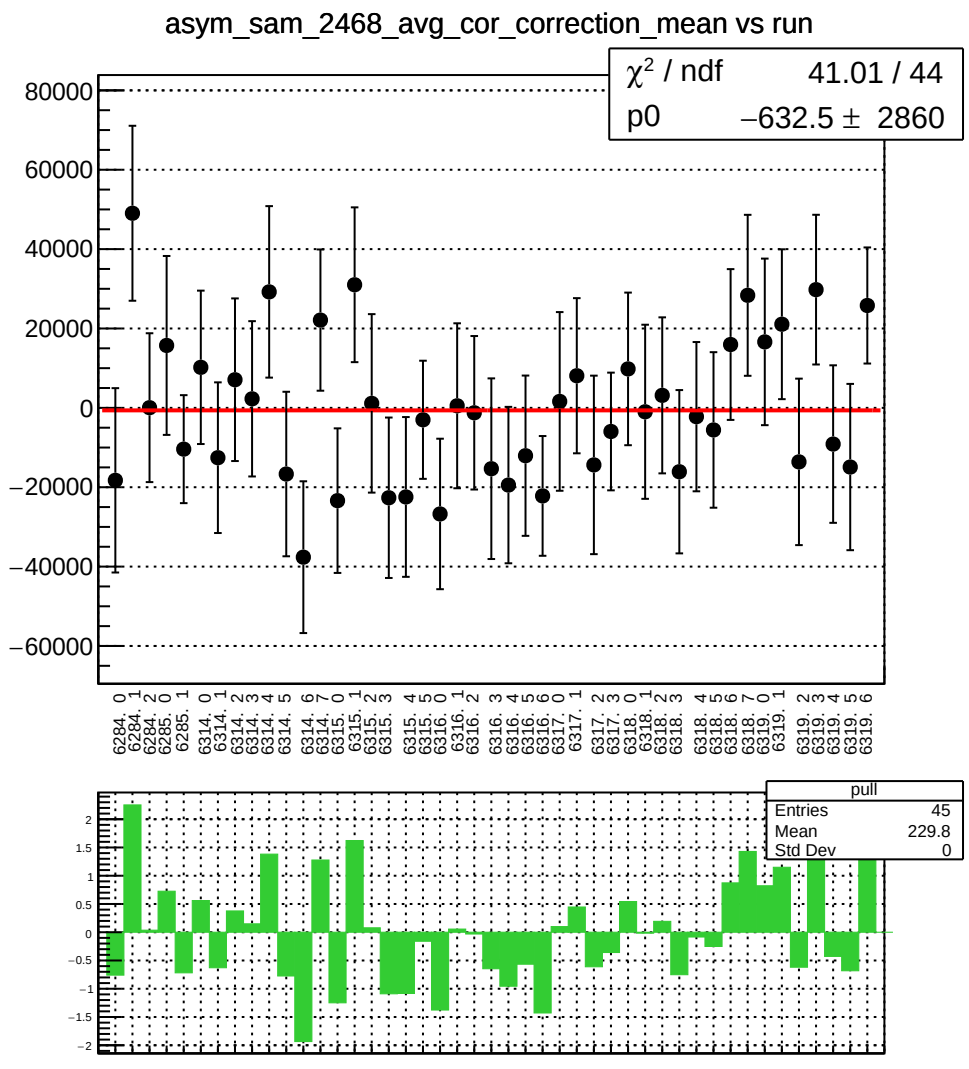
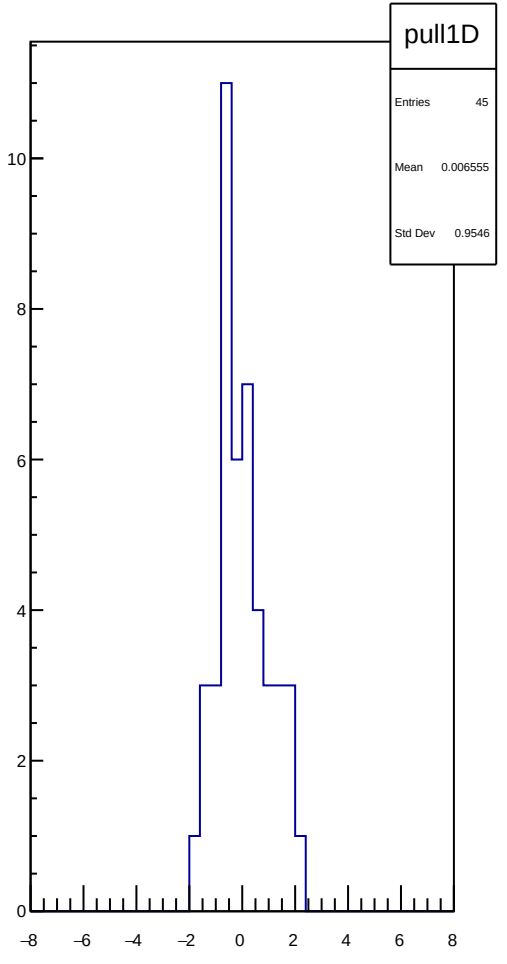
6319. 5
6319. 6


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 41.01 / 44
p0 −632.5 ± 2860
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 229.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.006555
Std Dev 0.9546
10
8
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−8
−6
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−2
0
2
4
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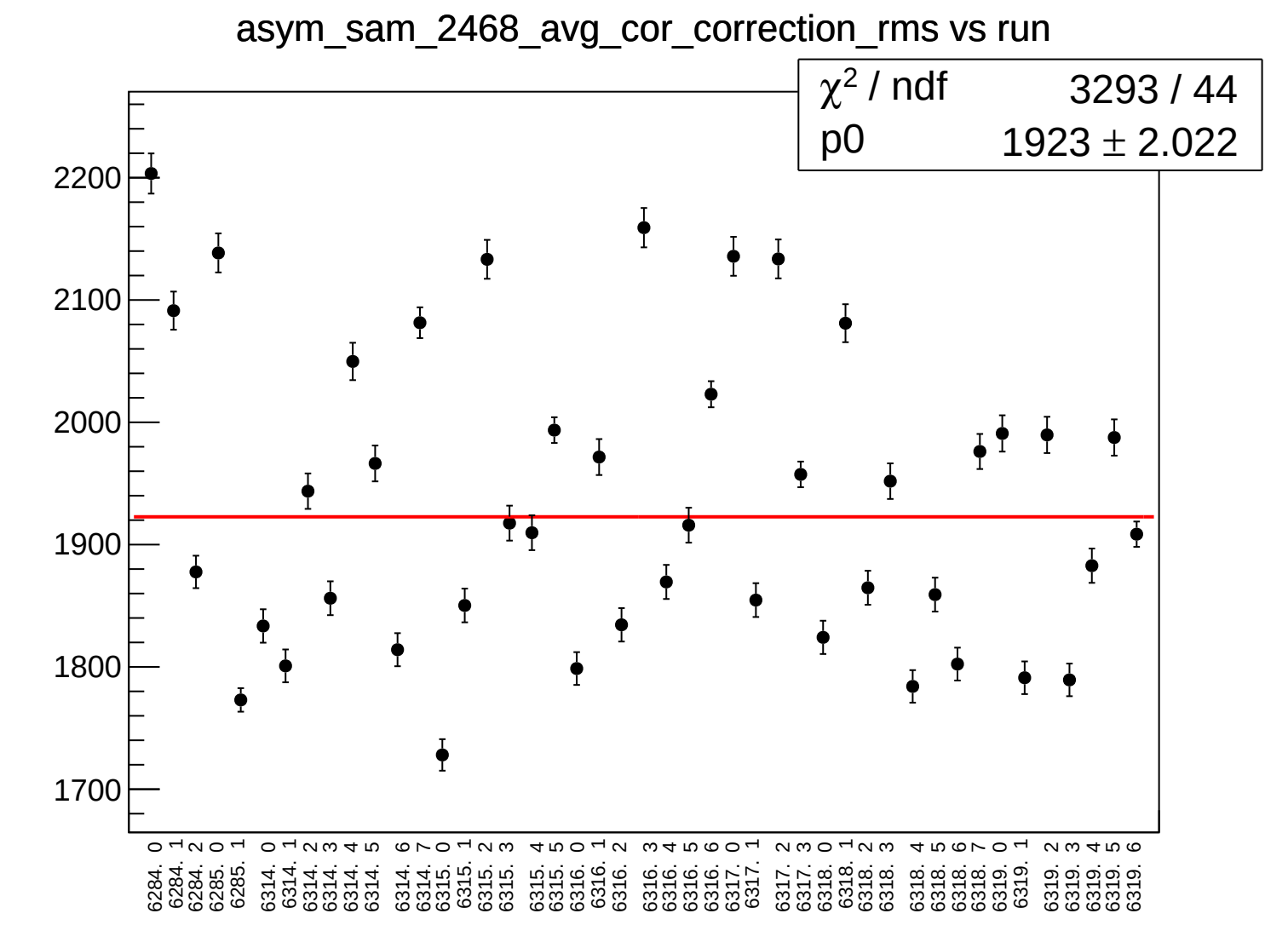
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3293 / 44
p0 1923 ± 2.022
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
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6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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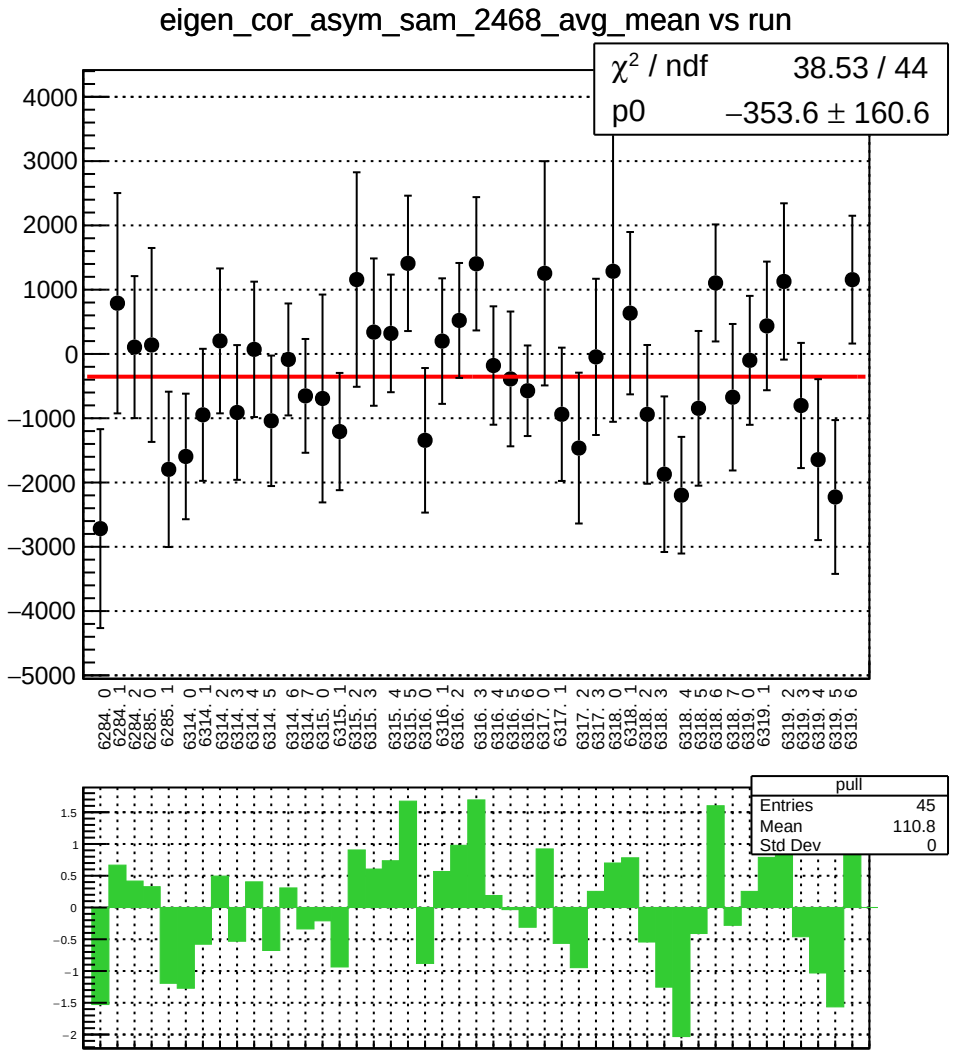
6319. 6


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 38.53 / 44
p0 −353.6 ± 160.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
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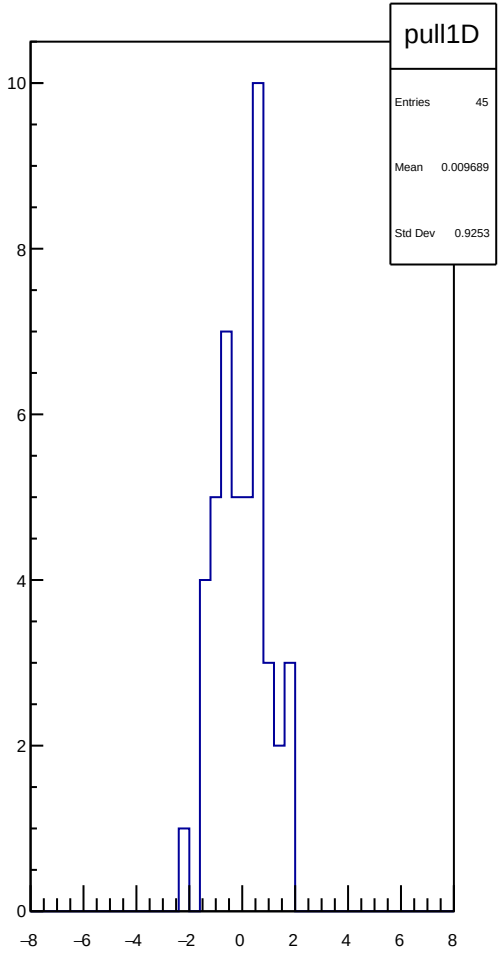
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 110.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.009689
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
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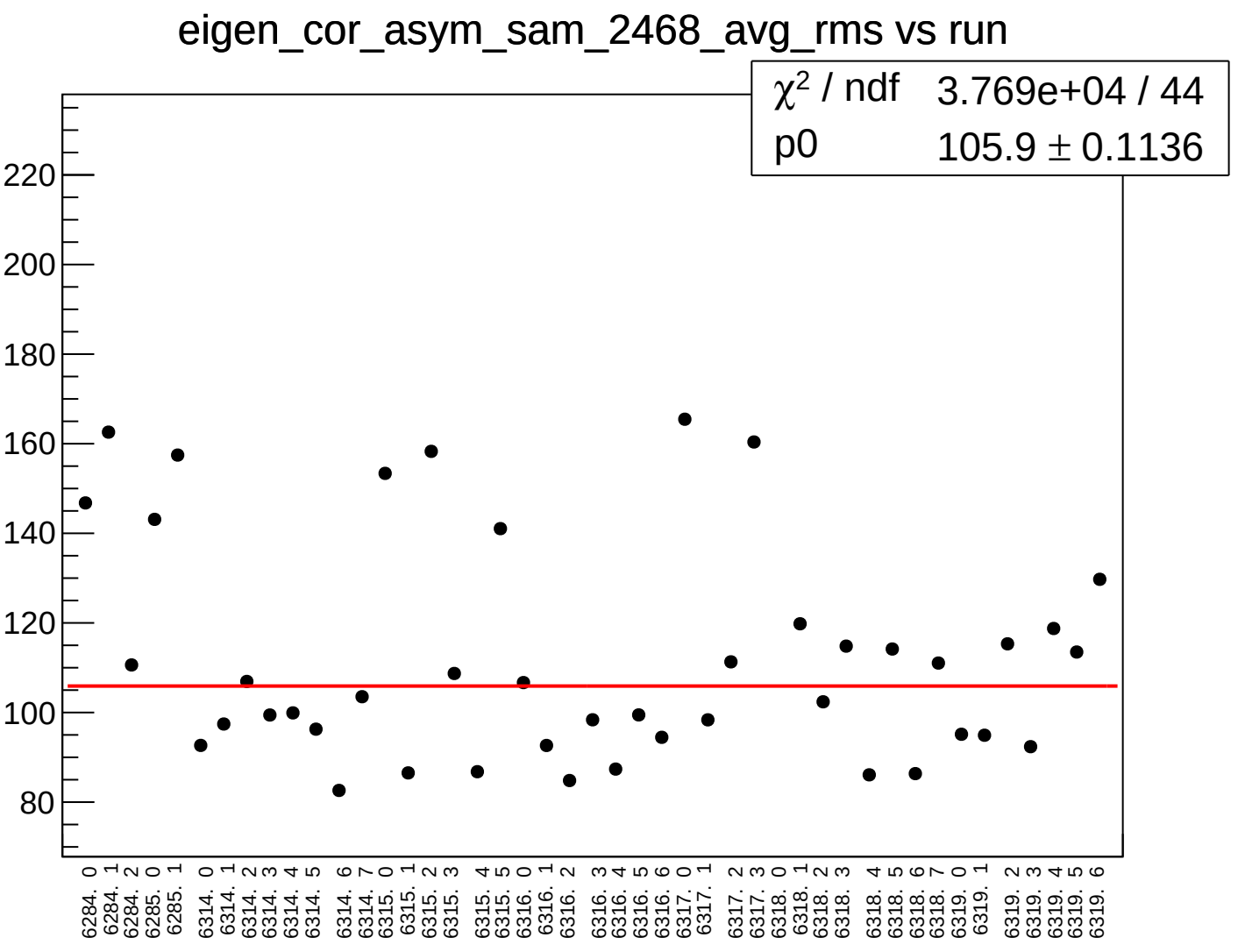
6
8


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.769e+04 / 44
p0 105.9 ± 0.1136
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6318. 1
6318. 2
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6318. 7
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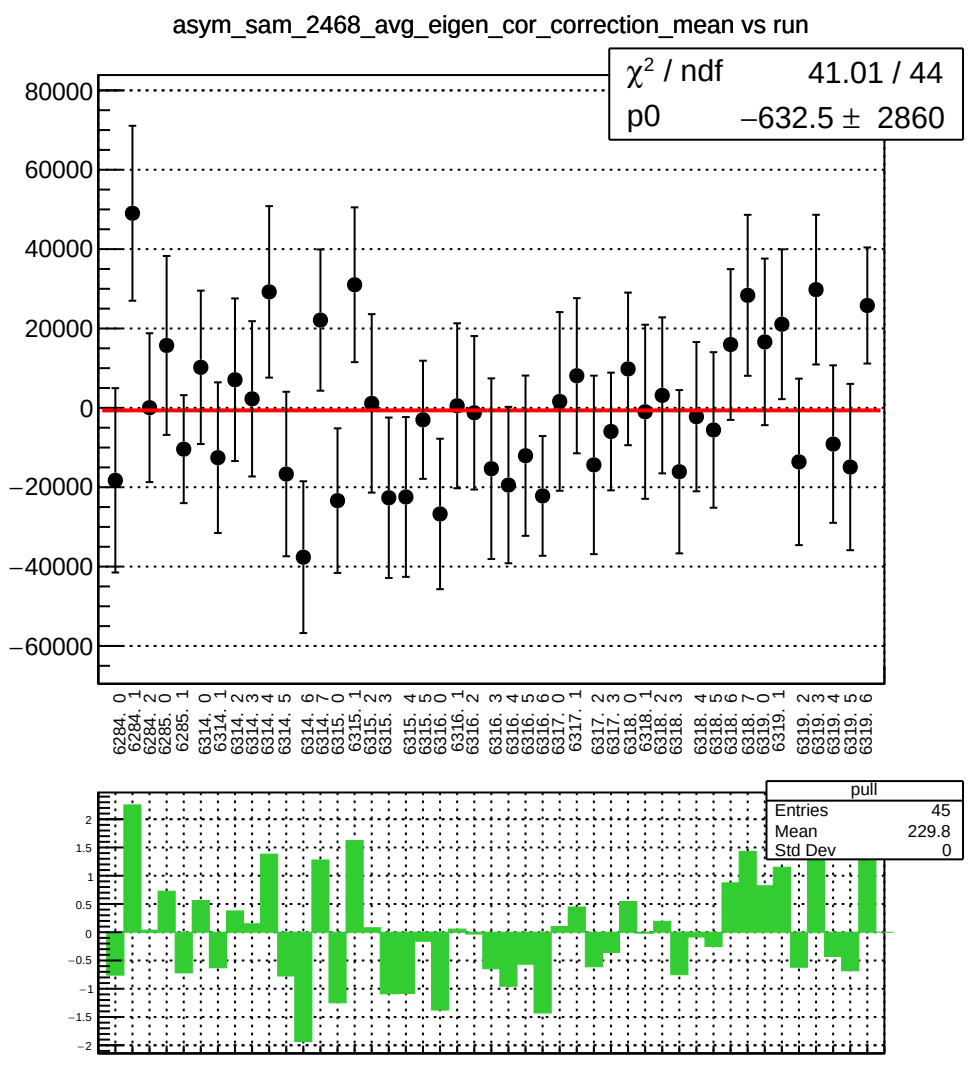
6319. 5
6319. 6


asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.01 / 44
p0 −632.5 ± 2860
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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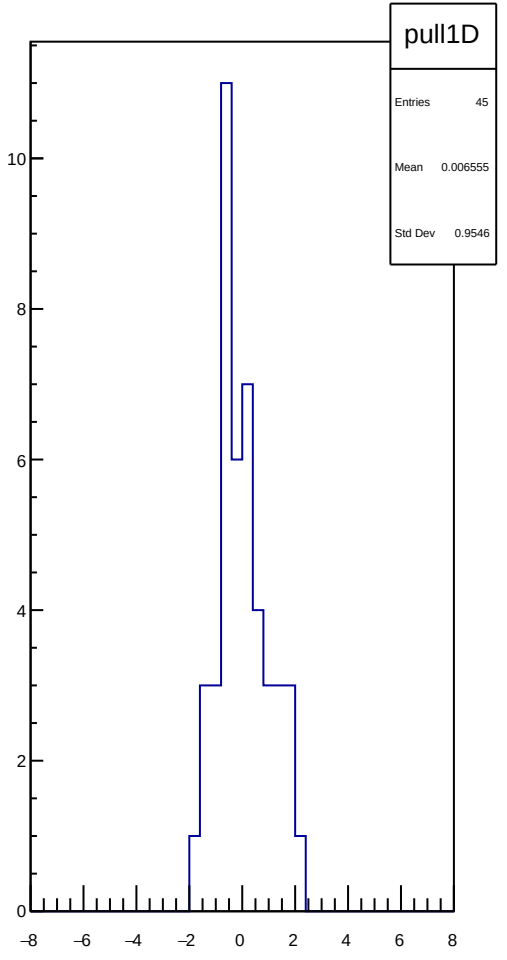
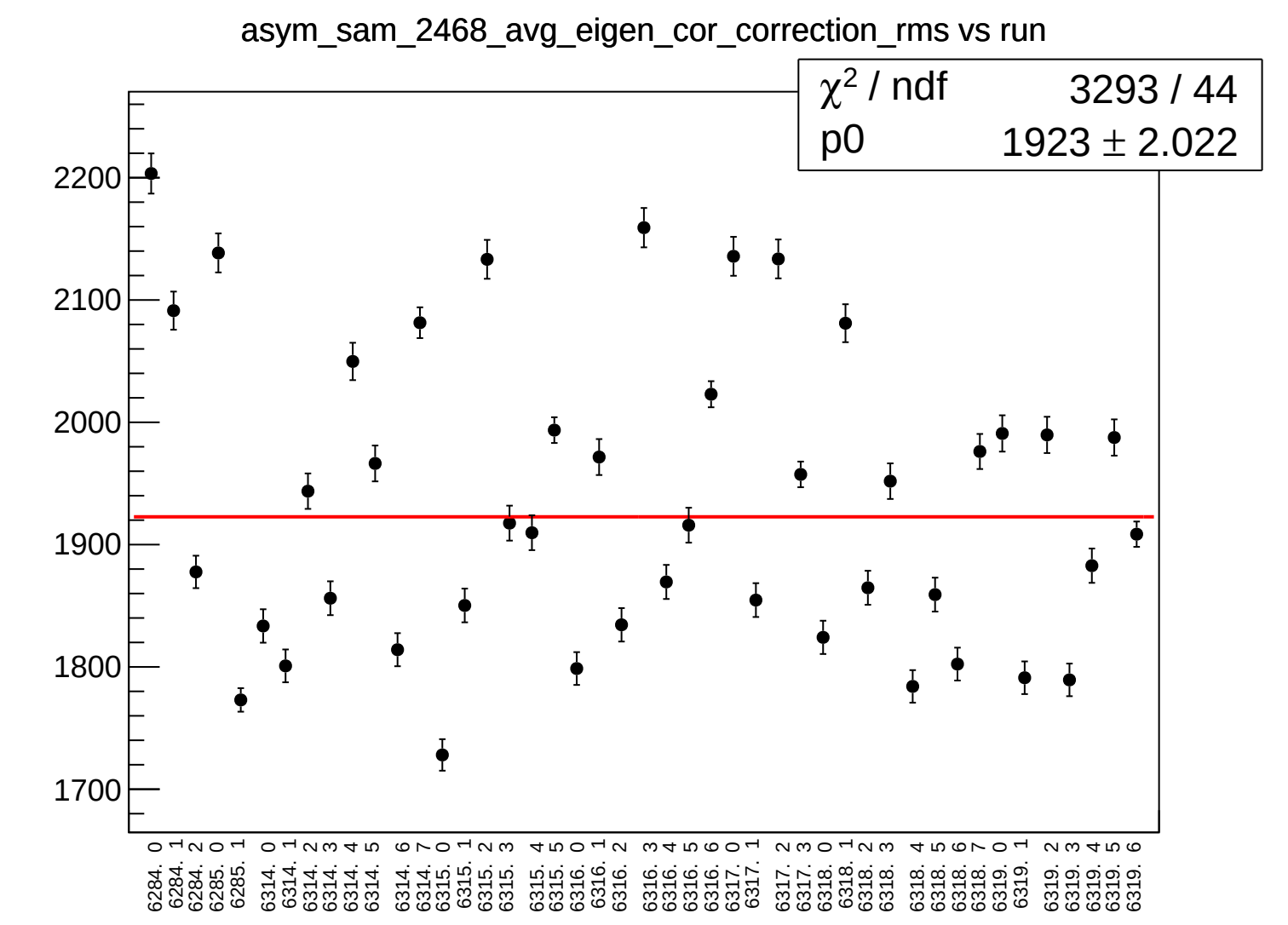
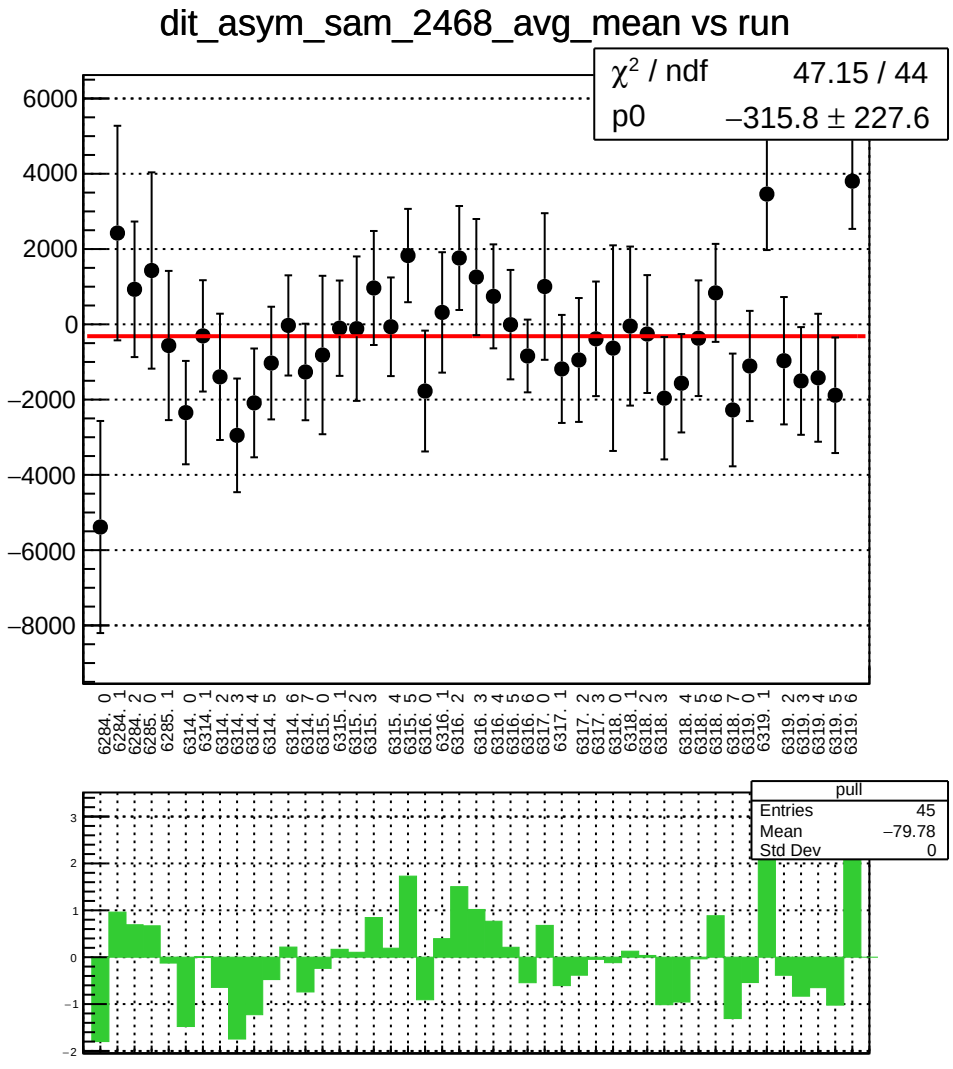
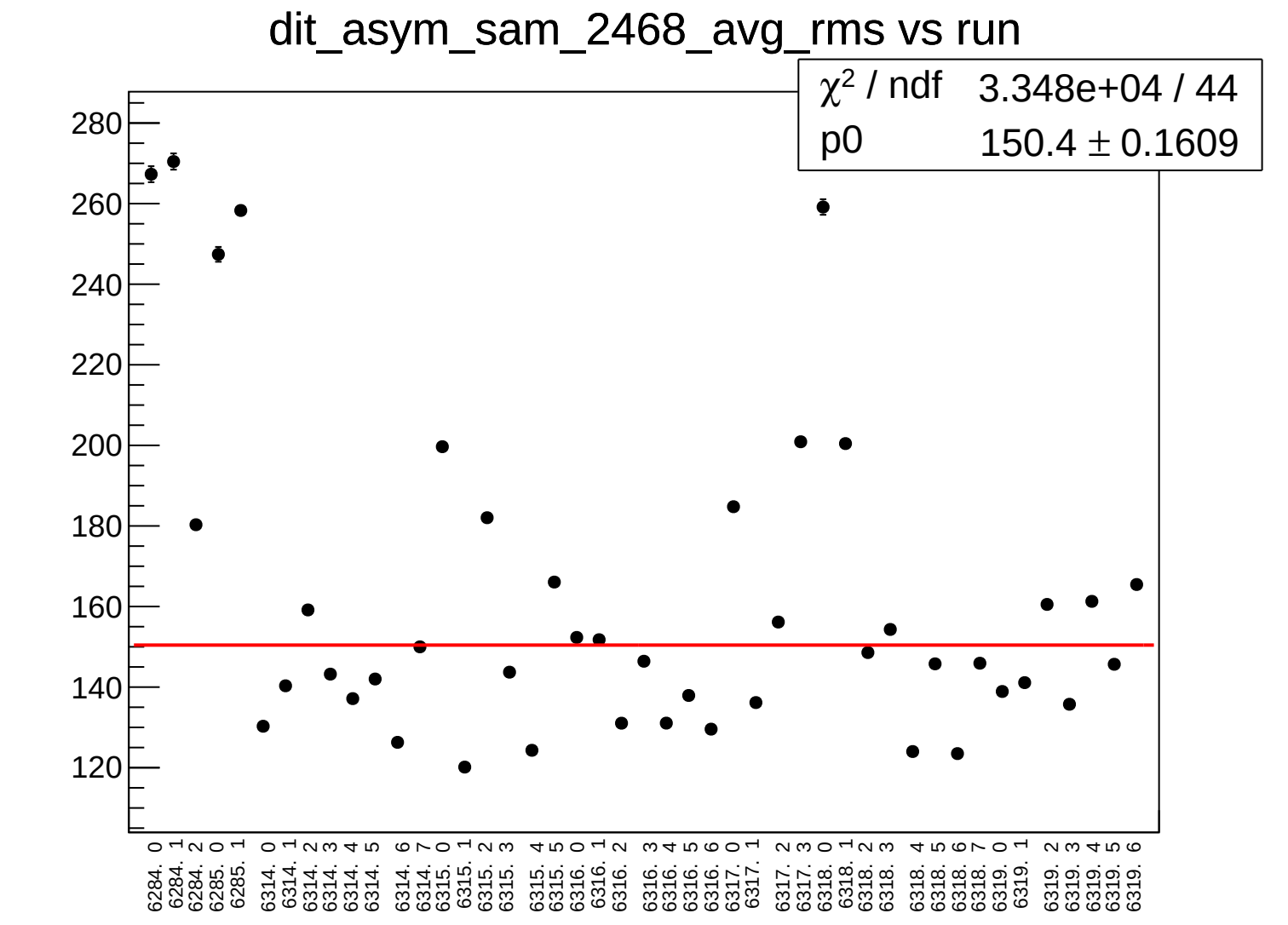
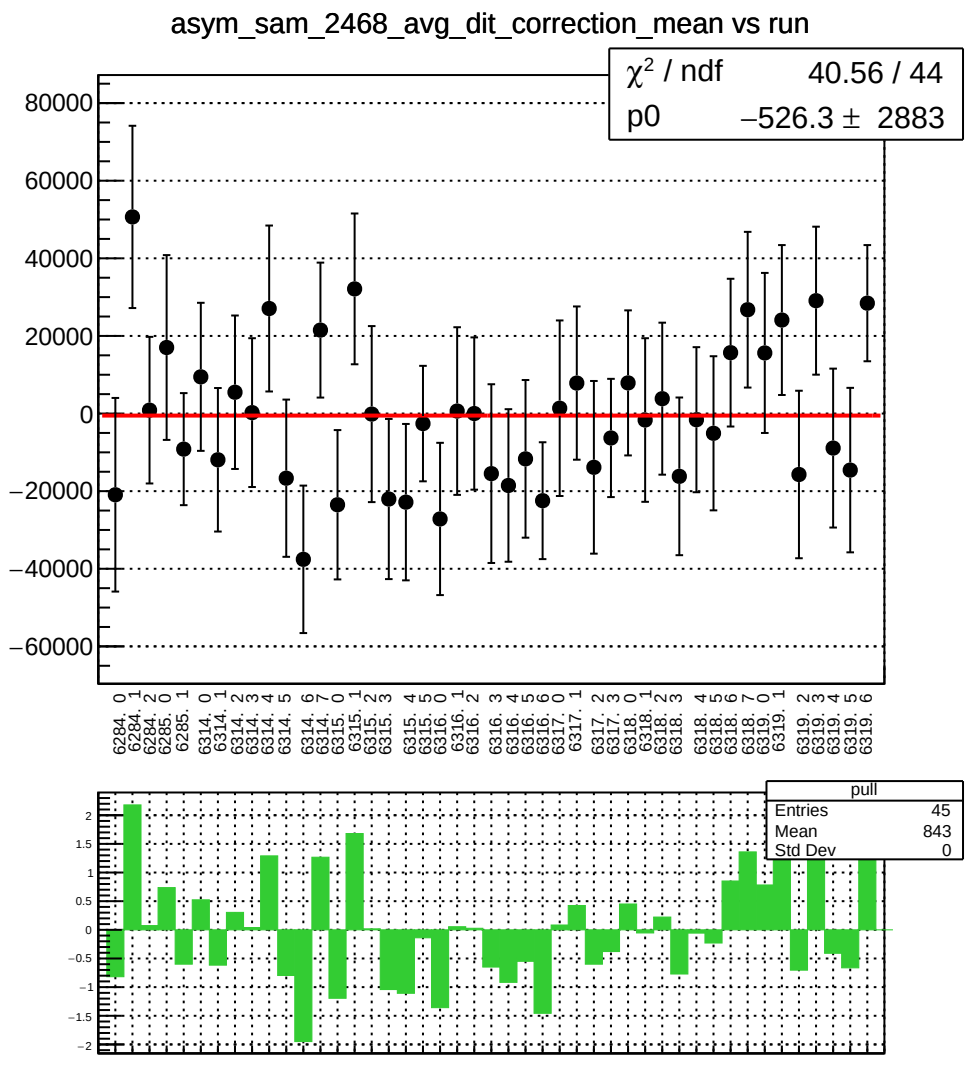
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 229.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

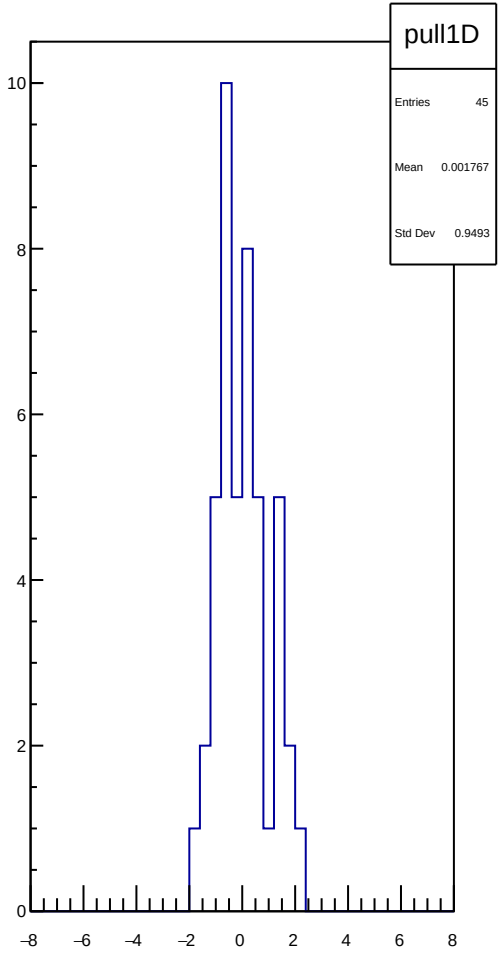

pull1D
Entries 45
Mean 0.006555
Std Dev 0.9546
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

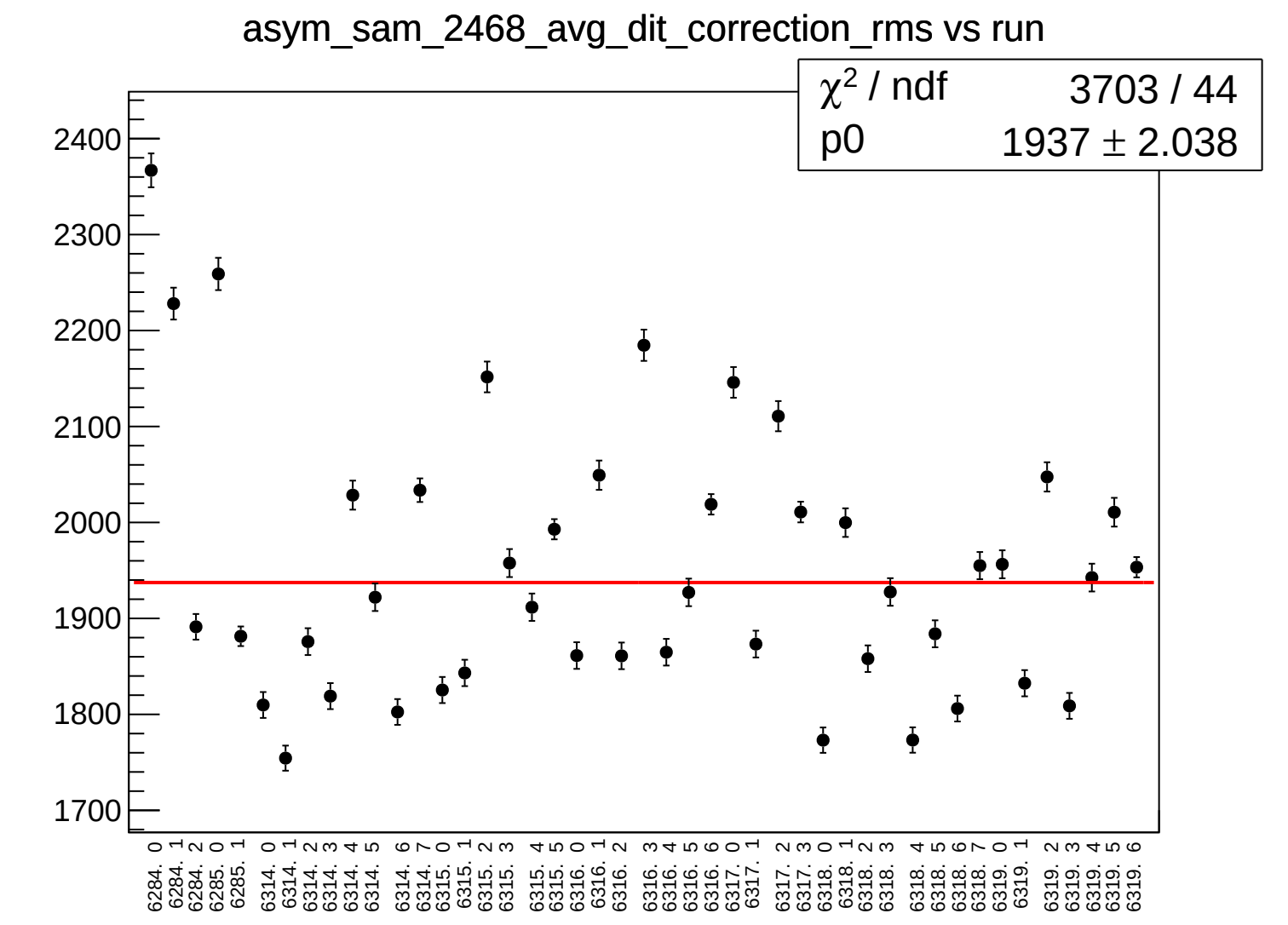

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3293 / 44
p0 1923 ± 2.022
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

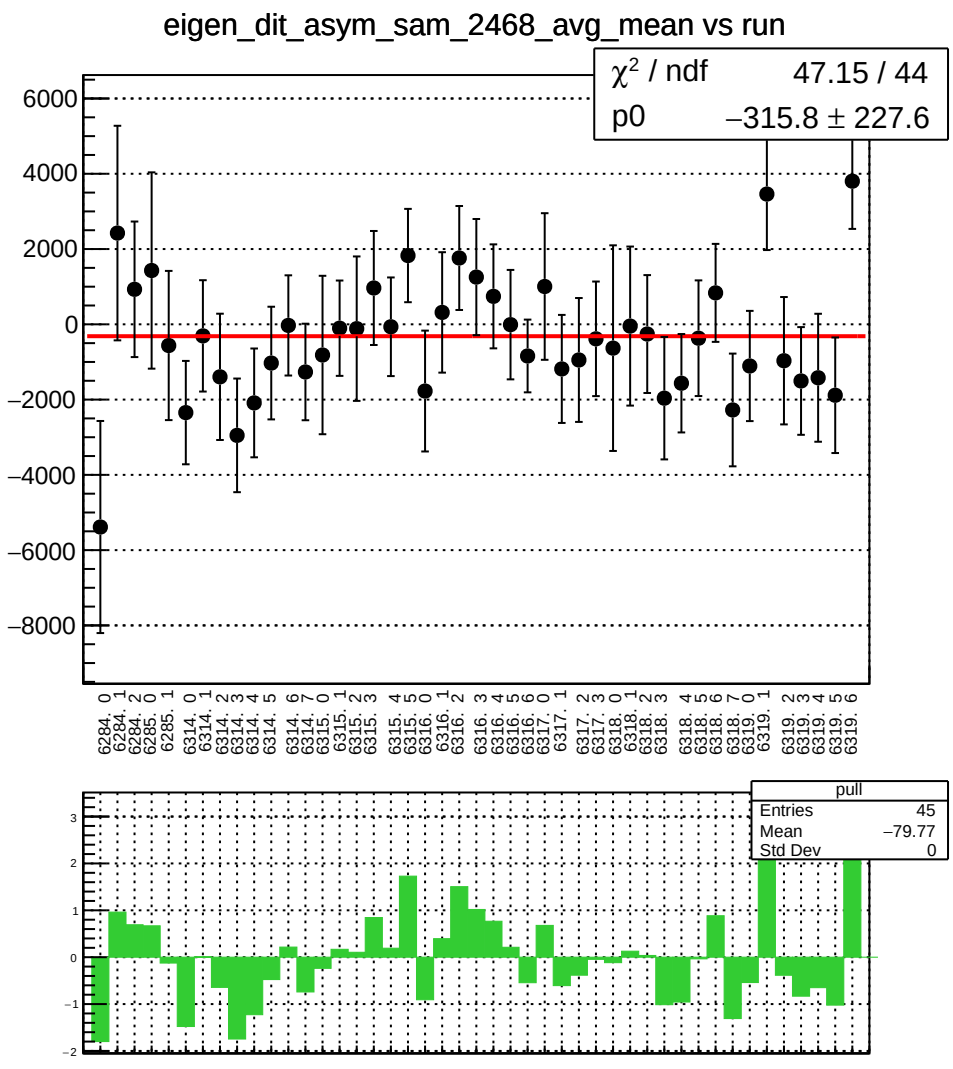

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 47.15 / 44
p0 −315.8 ± 227.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.78
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01829
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

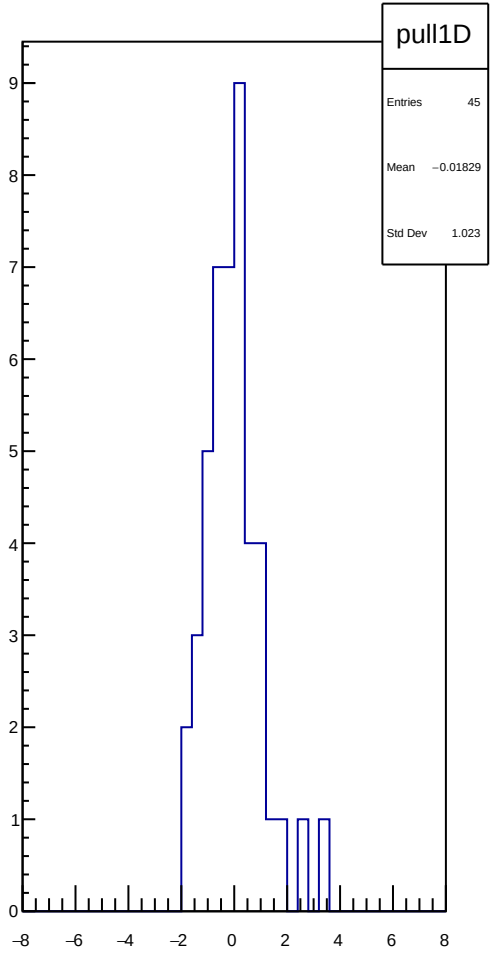

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.348e+04 / 44
p0 150.4 ± 0.1609
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

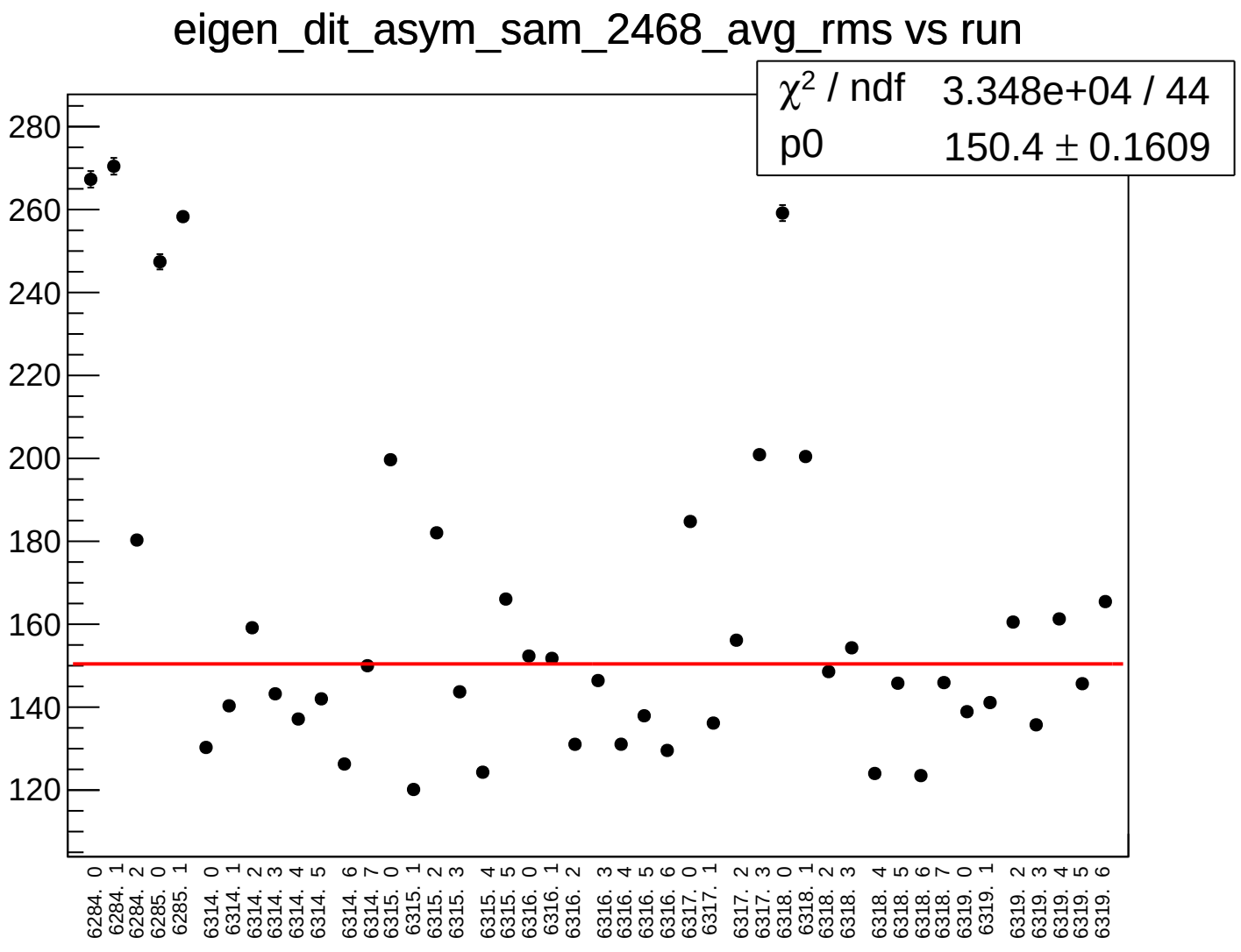

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 40.56 / 44
p0 −526.3 ± 2883
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 843
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

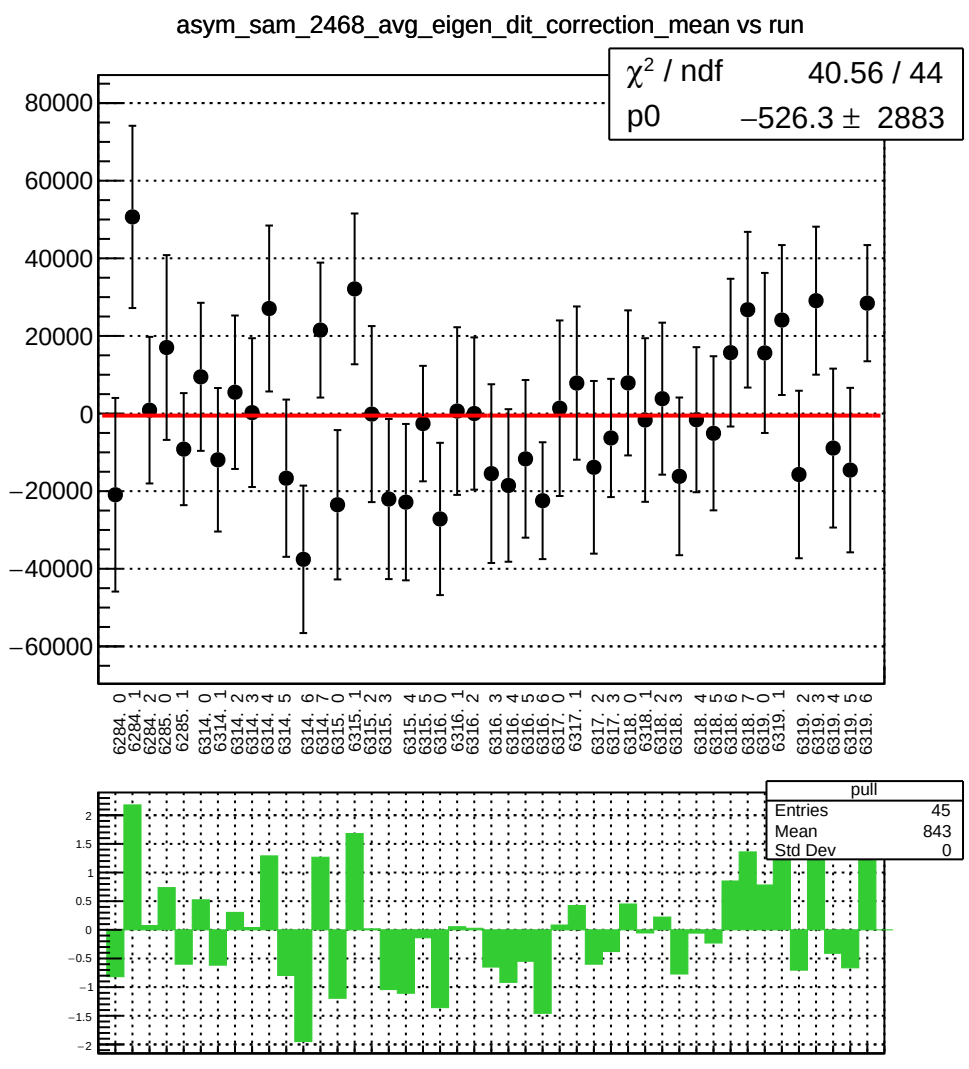

pull1D
Entries 45
Mean 0.001767
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

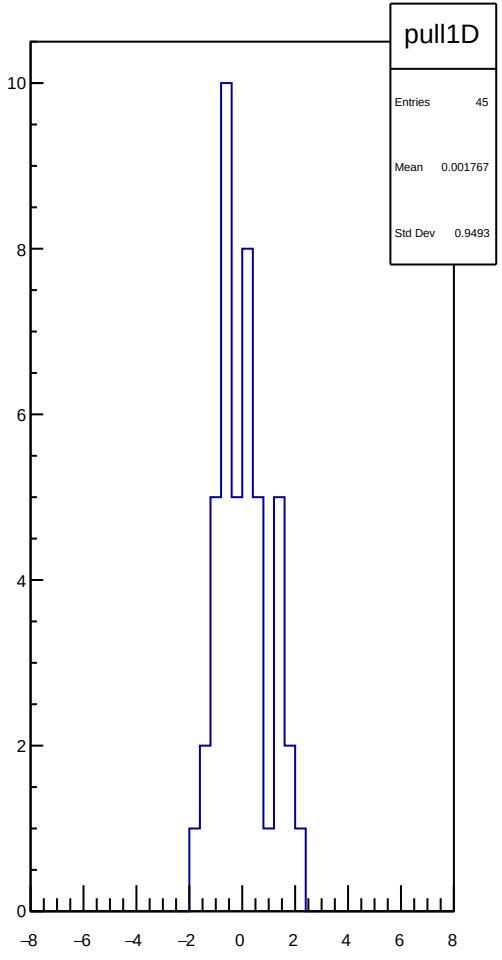

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3703 / 44
p0 1937 ± 2.038
2400
2300
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

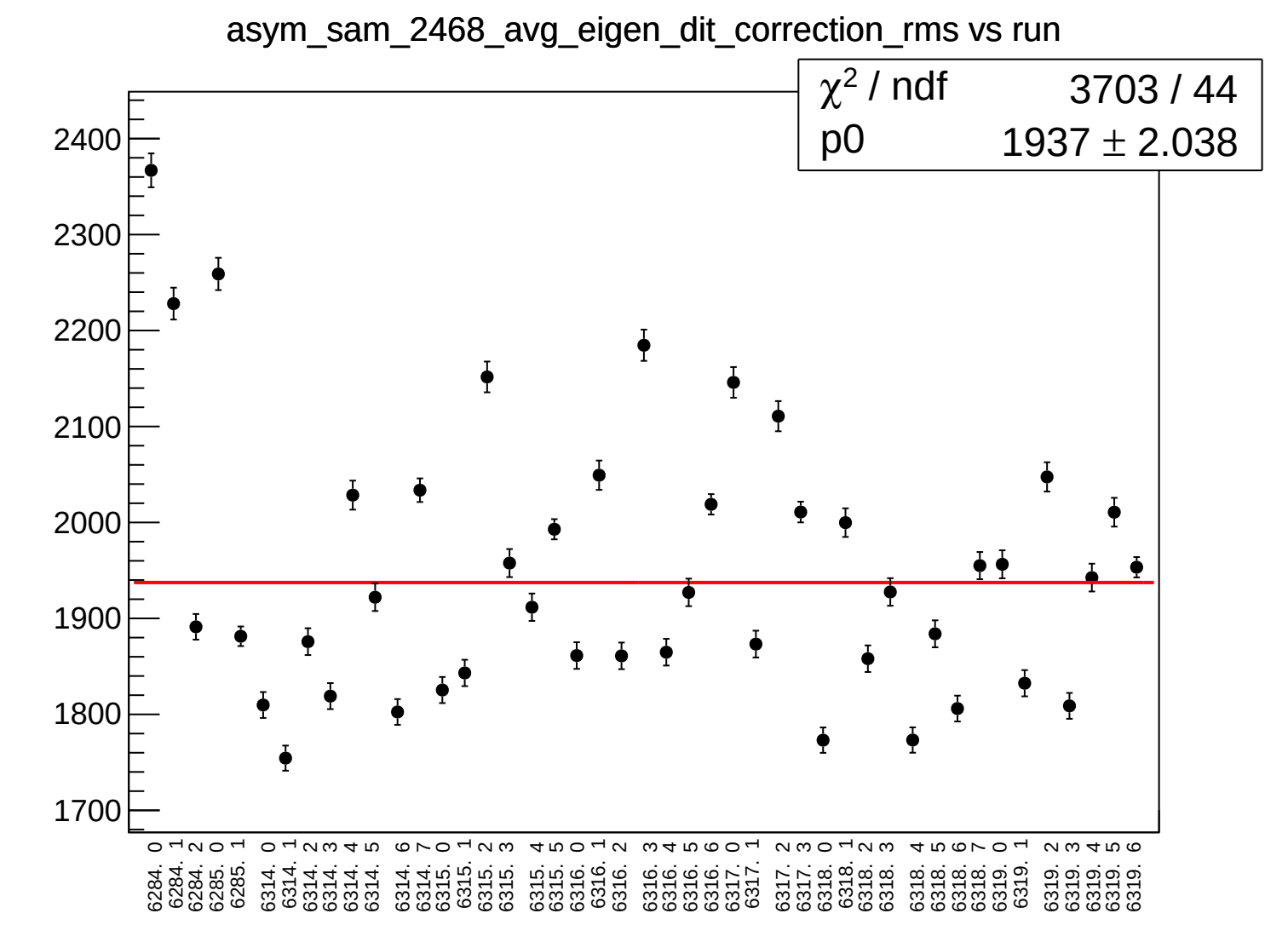

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 47.15 / 44
p0 −315.8 ± 227.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −79.77
Std Dev 0
3
2
1
0
−1
−2

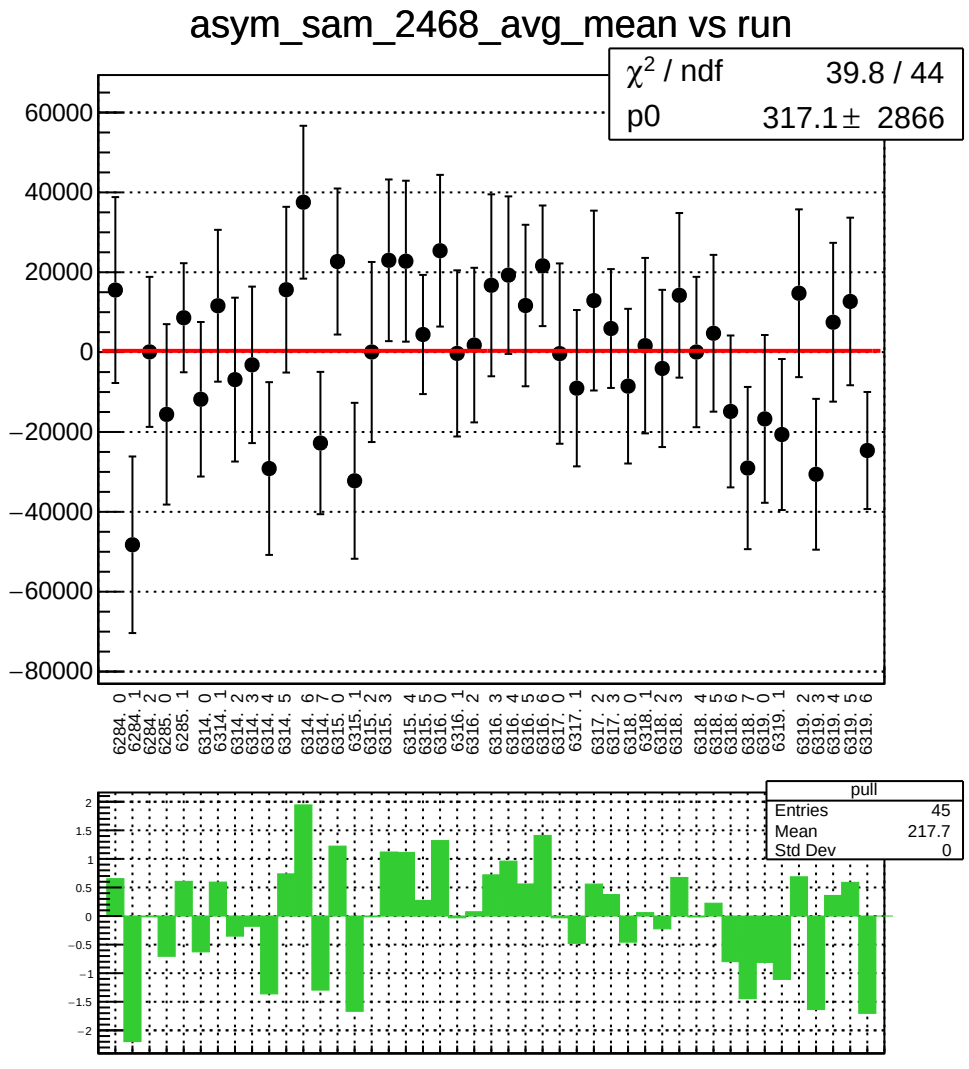

pull1D
Entries 45
Mean −0.01829
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

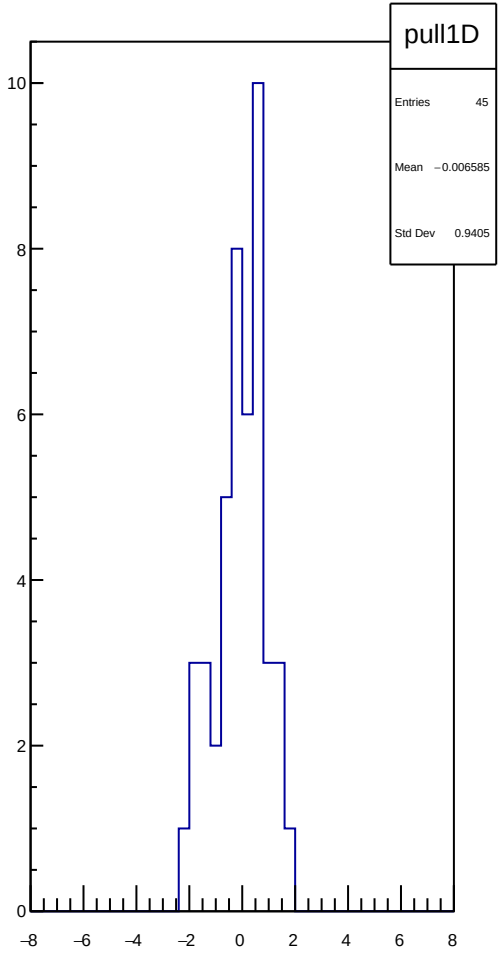

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.348e+04 / 44
p0 150.4 ± 0.1609
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

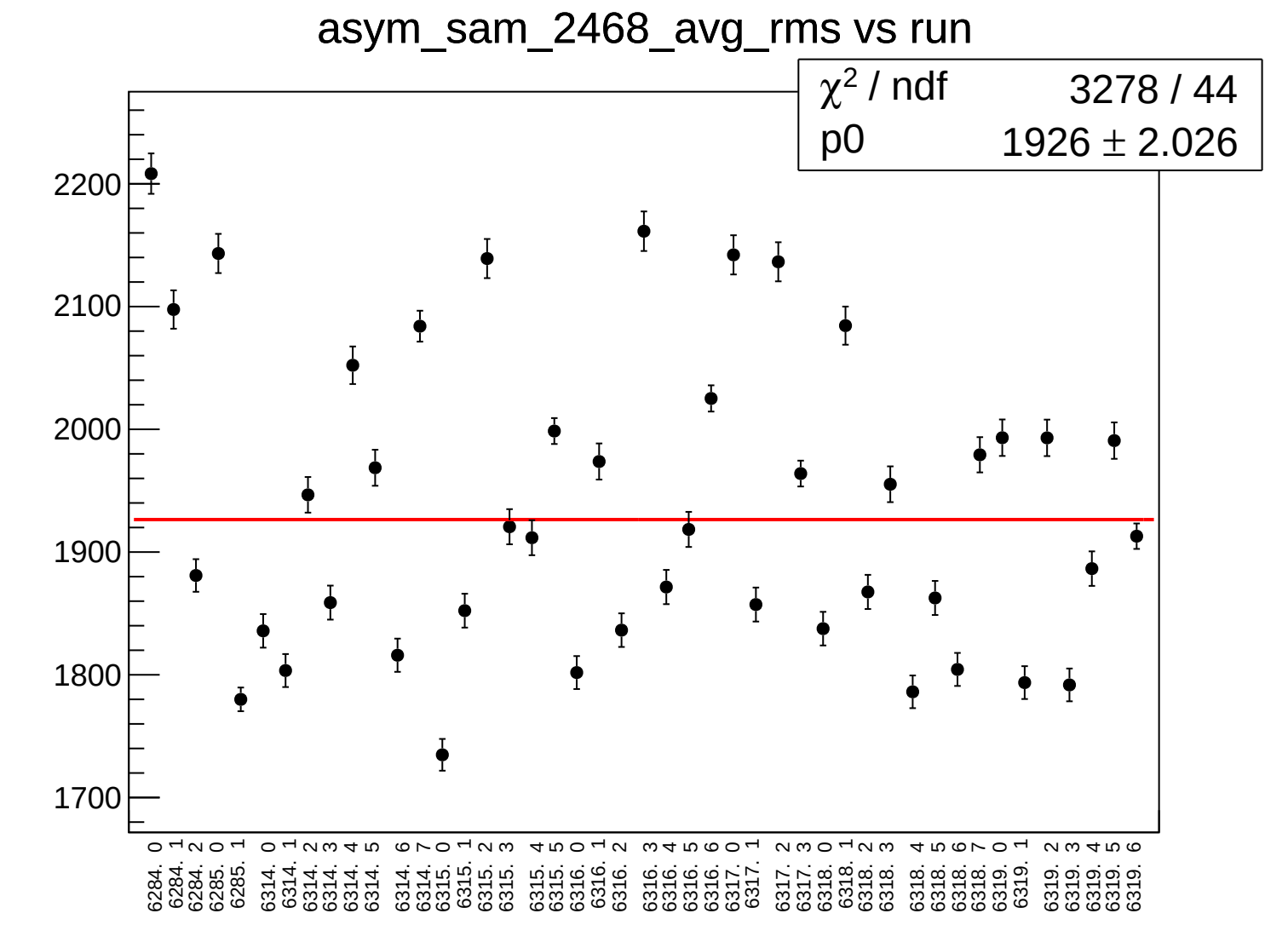

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.56 / 44
p0 −526.3 ± 2883
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 843
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

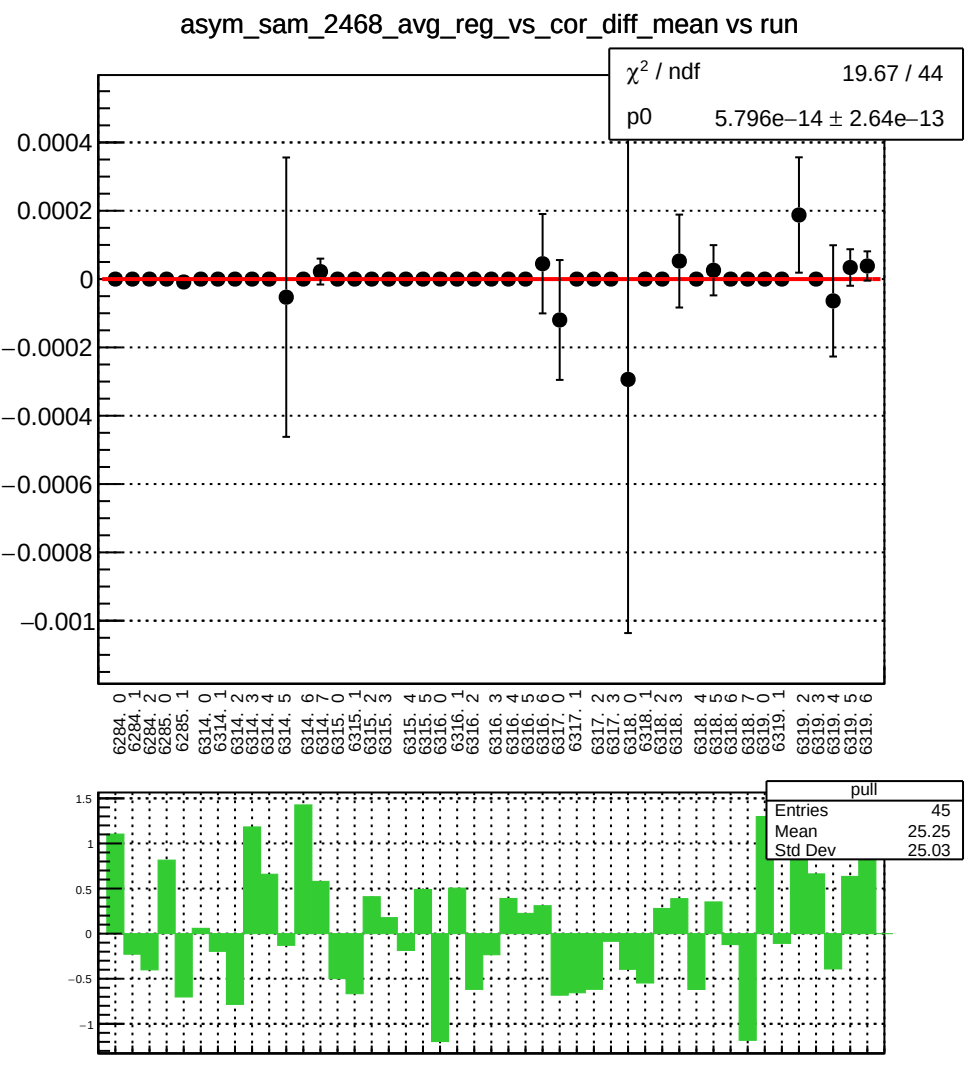

pull1D
Entries 45
Mean 0.001767
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

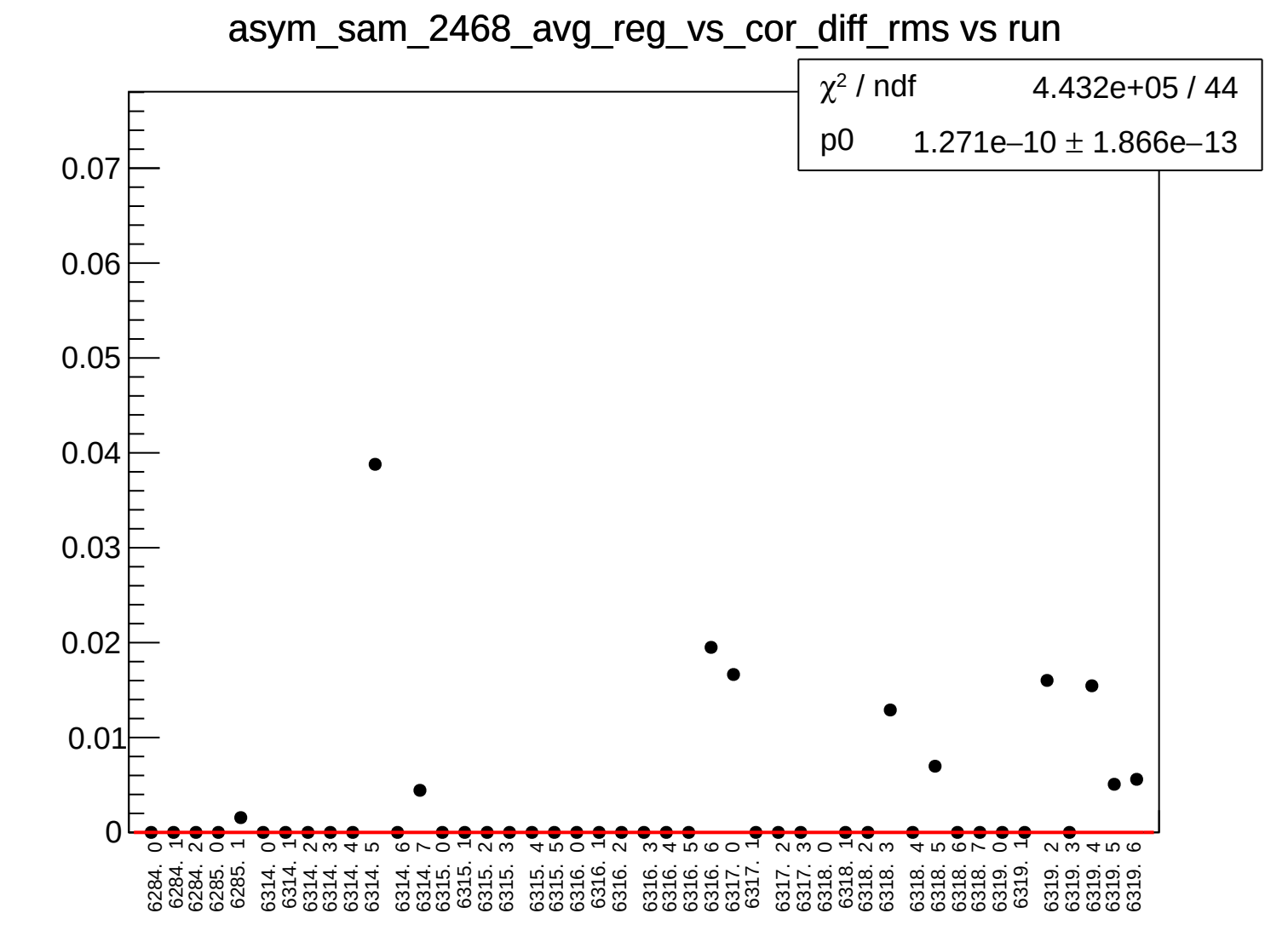

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3703 / 44
p0 1937 ± 2.038
2400
2300
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

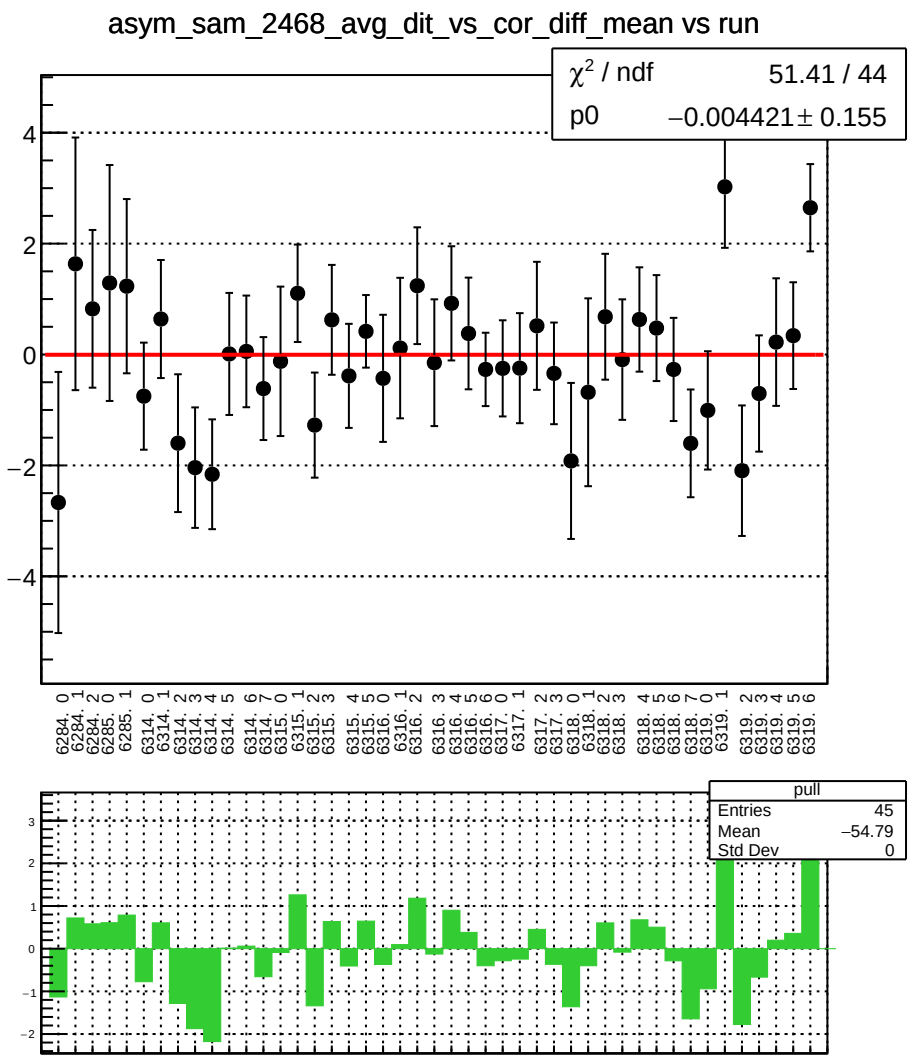

asym_sam_2468_avg_mean vs run
χ² / ndf 39.8 / 44
p0 317.1± 2866
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 217.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

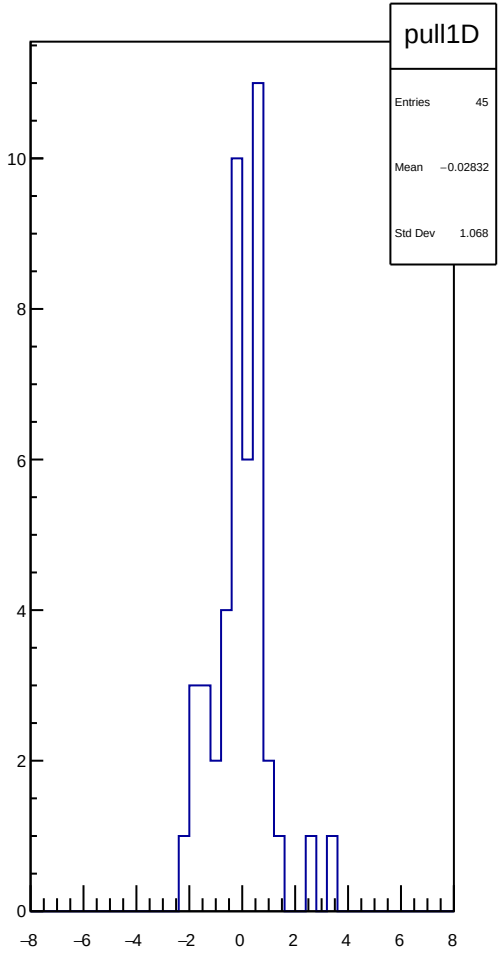

pull1D
Entries 45
Mean −0.006585
Std Dev 0.9405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

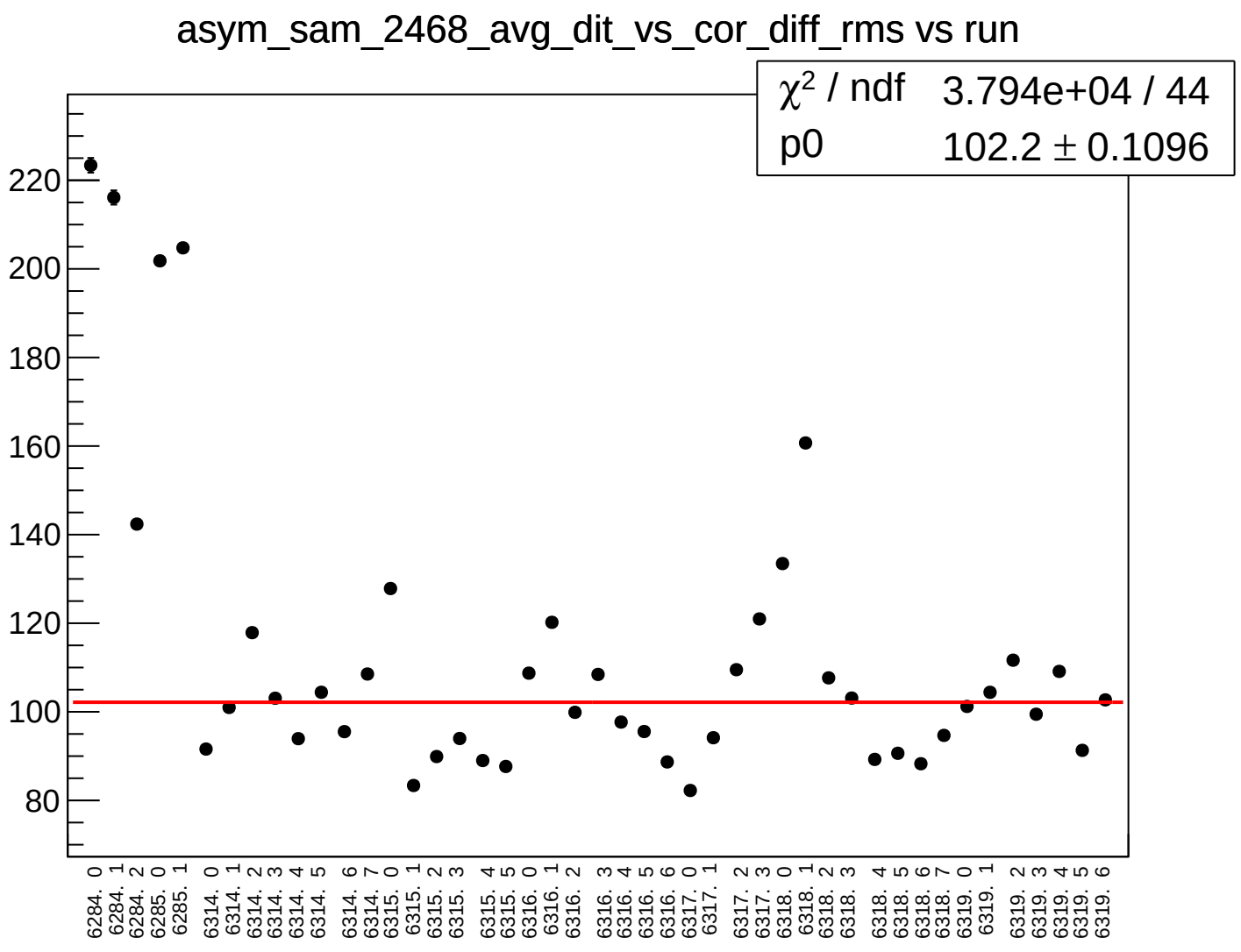

asym_sam_2468_avg_rms vs run
χ² / ndf 3278 / 44
p0 1926 ± 2.026
2200
2100
2000
1900
1800
1700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

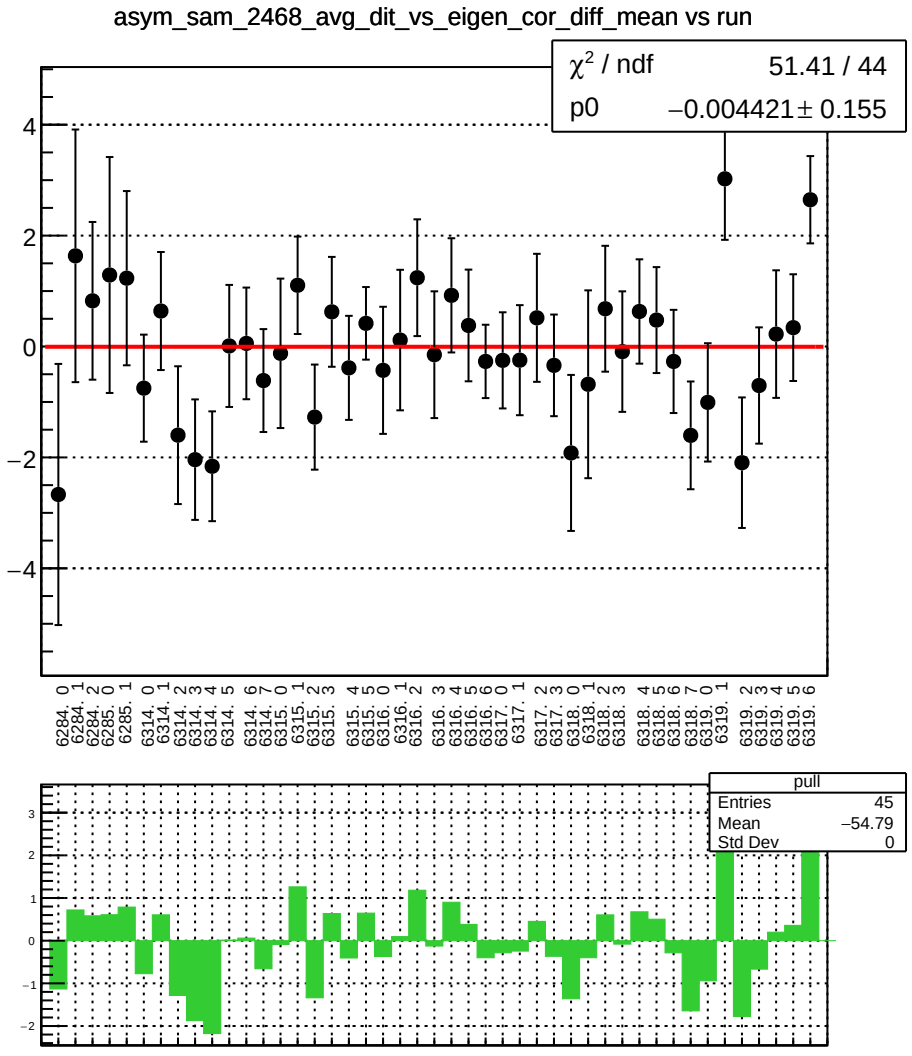

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.67 / 44
p0 5.796e−14 ± 2.64e−13
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 25.25
Std Dev 25.03
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.06012
Std Dev 0.6584
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

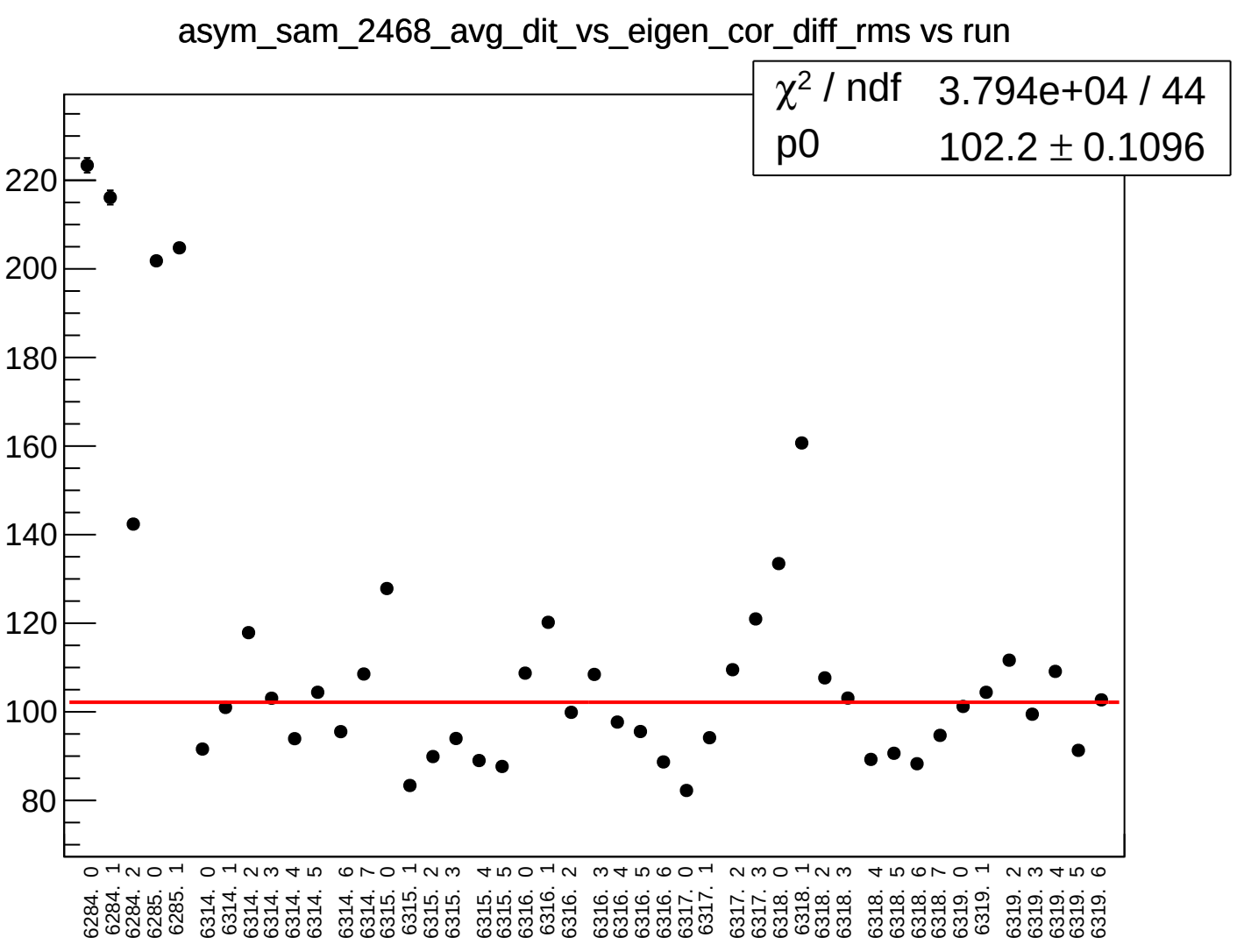

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.432e+05 / 44
p0 1.271e−10 ± 1.866e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.41 / 44
p0 −0.004421 ± 0.155
4
2
0
−2
−4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −54.79
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02832
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 44
p0 102.2 ± 0.1096
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.41 / 44
p0 −0.004421 ± 0.155
pull
Entries 45
Mean −54.79
Std Dev 0
pull1D
Entries 45
Mean −0.02832
Std Dev 1.068


asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 44
p0 102.2 ± 0.1096
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
6319. 0
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6319. 2
6319. 3
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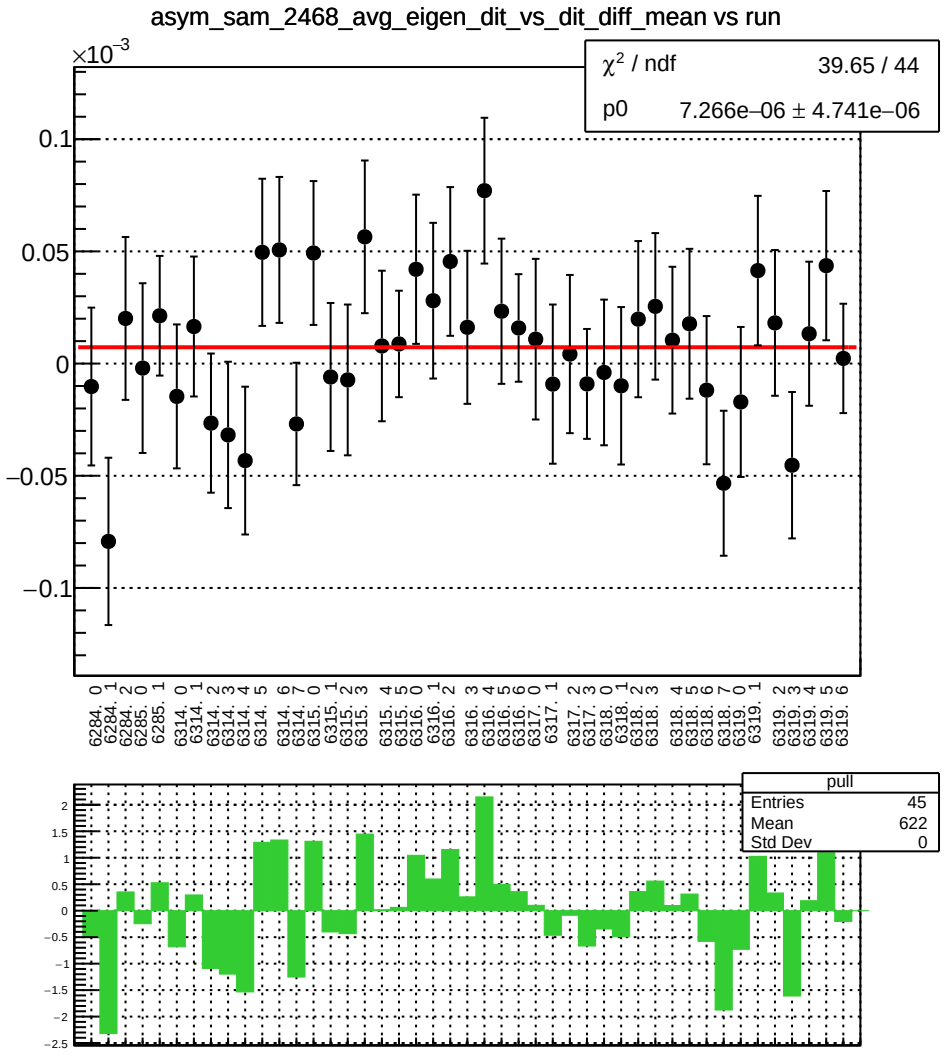
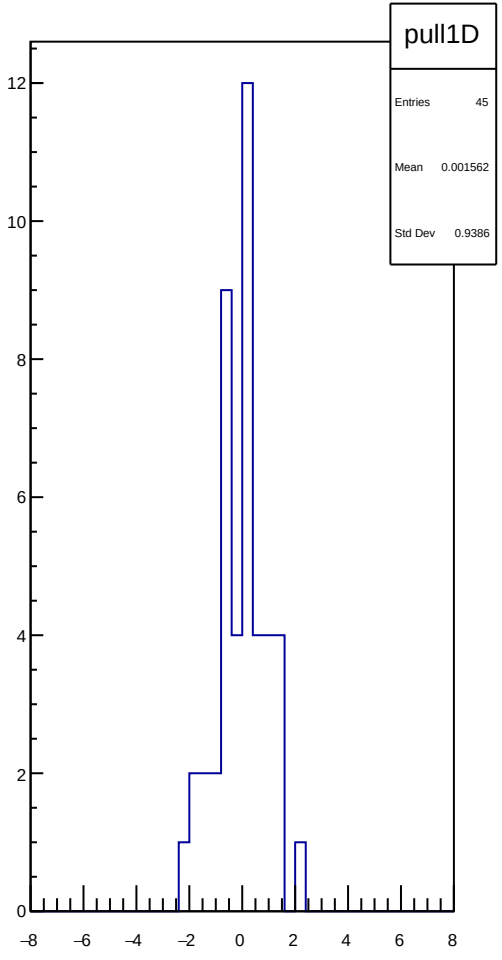
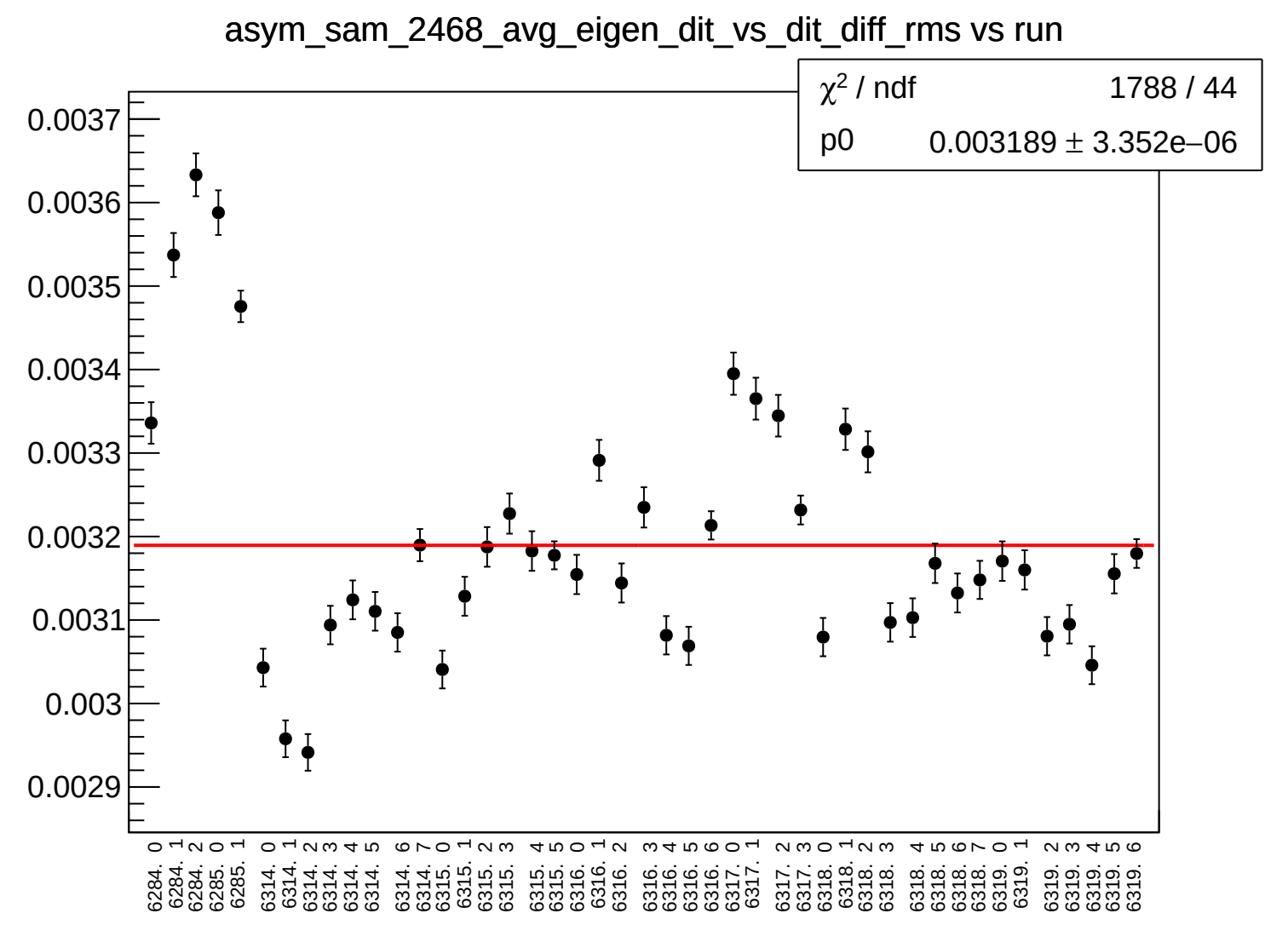
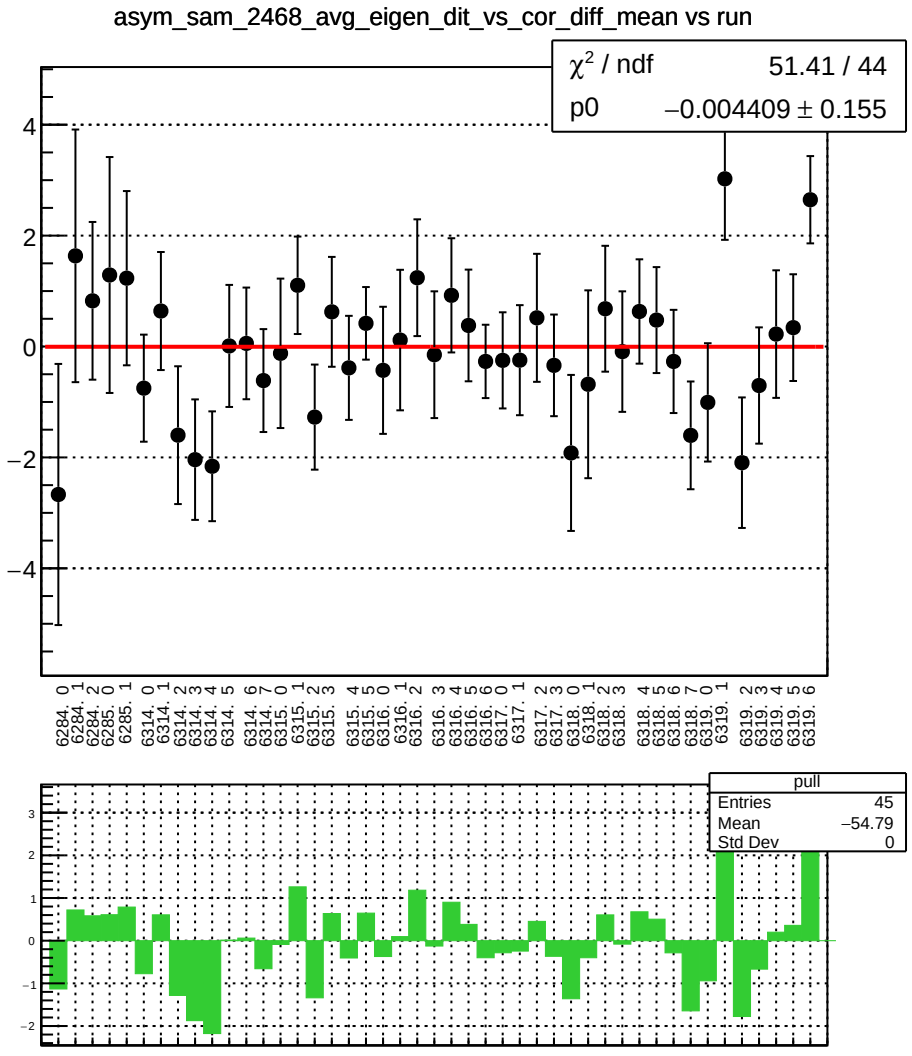
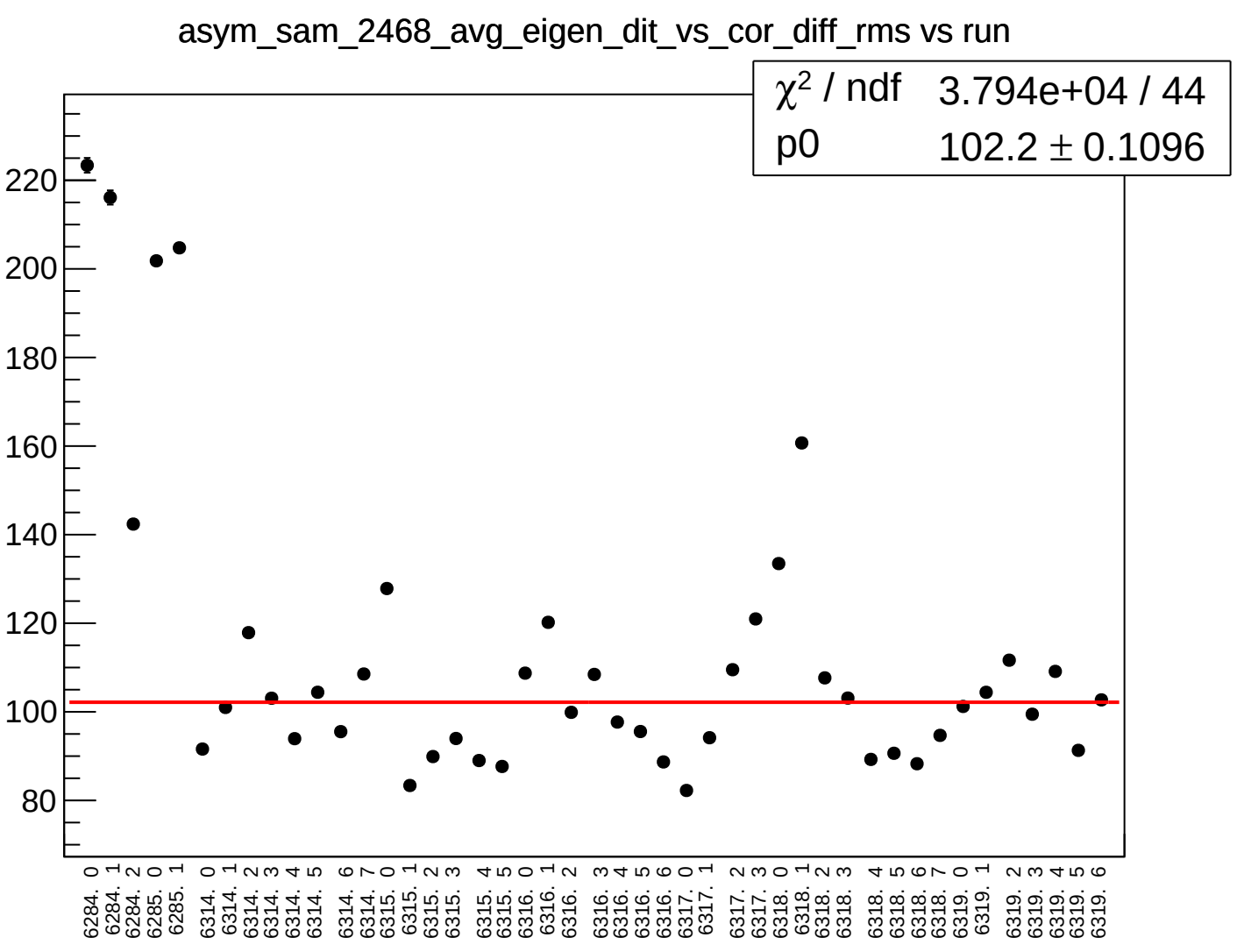
6319. 5
6319. 6


asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.65 / 44
p0 7.266e−06 ± 4.741e−06
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 622
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.001562
Std Dev 0.9386
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1788 / 44
p0 0.003189 ± 3.352e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.41 / 44
p0 −0.004409 ± 0.155
pull
Entries 45
Mean −54.79
Std Dev 0
pull1D
Entries 45
Mean −0.02832
Std Dev 1.068


asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 44
p0 102.2 ± 0.1096
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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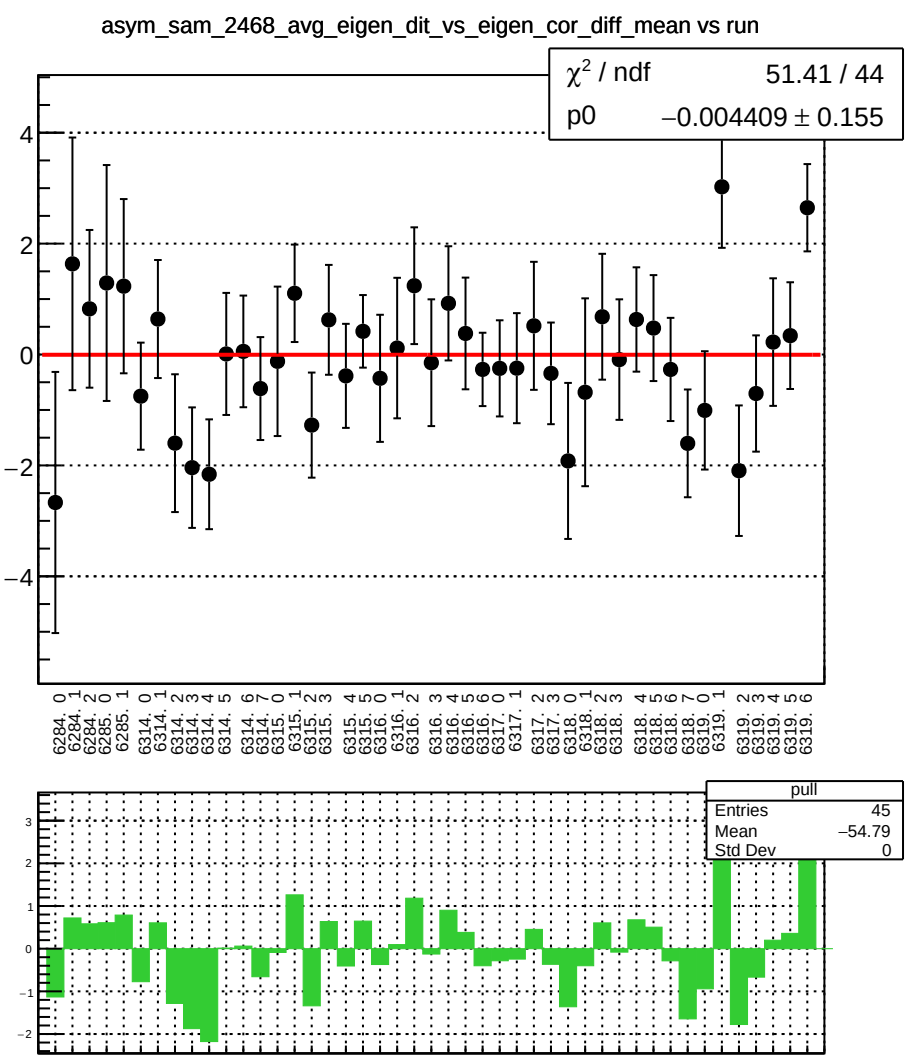
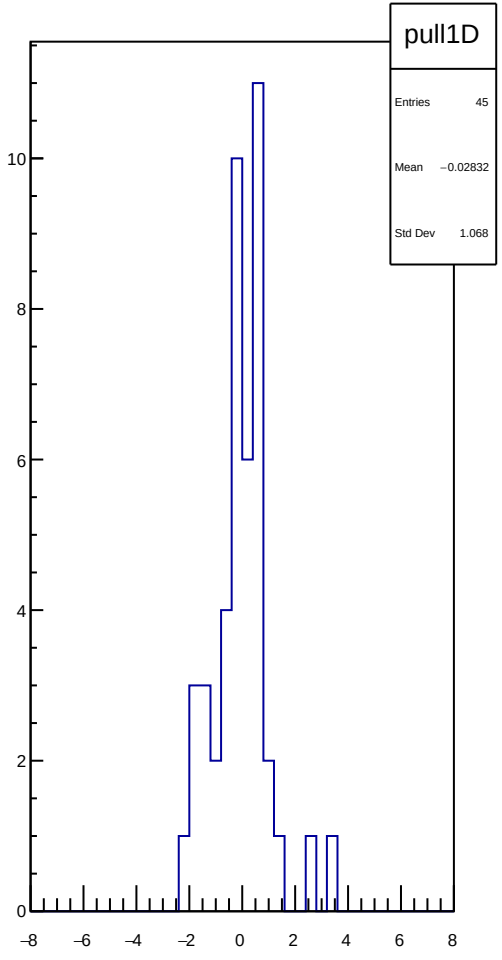
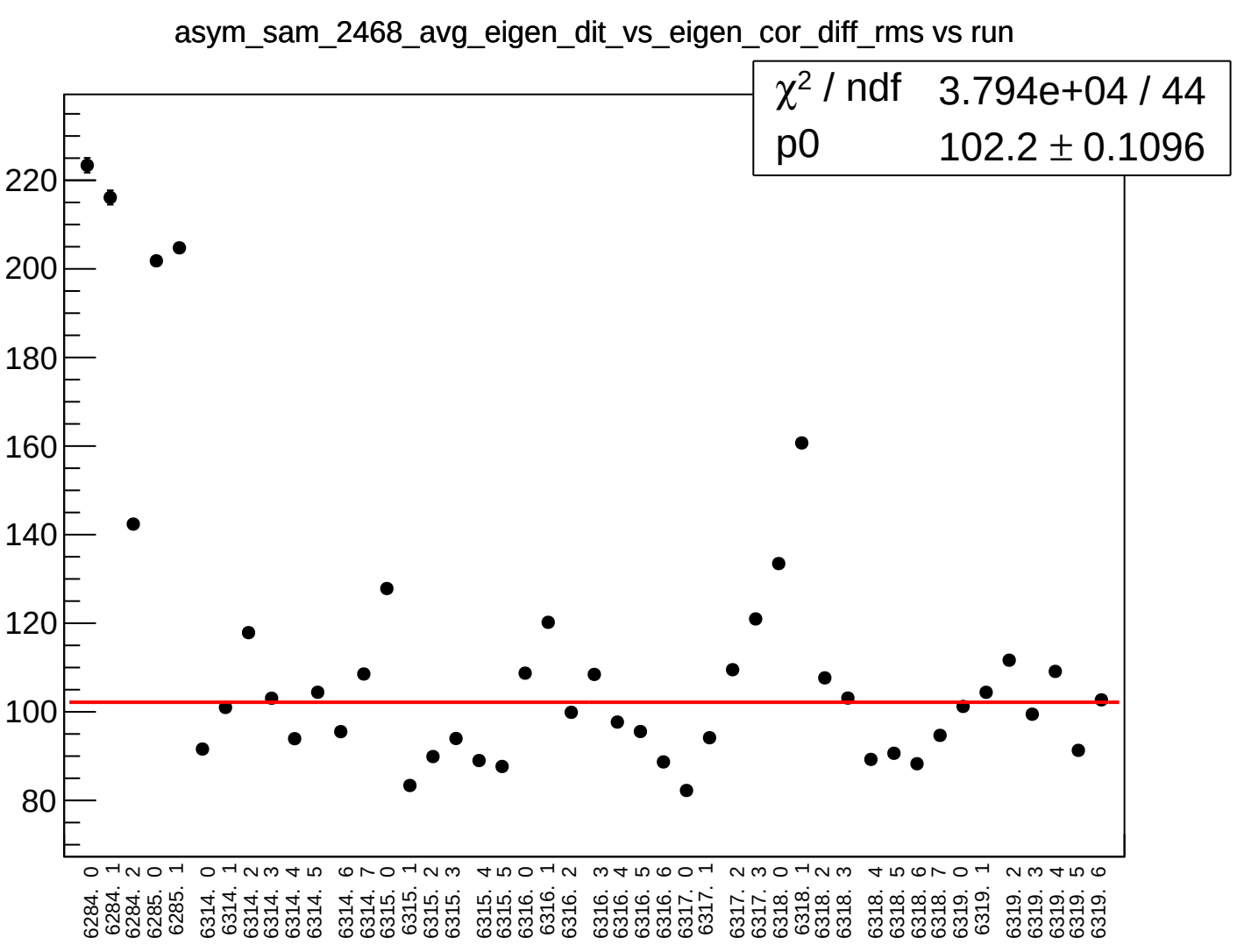
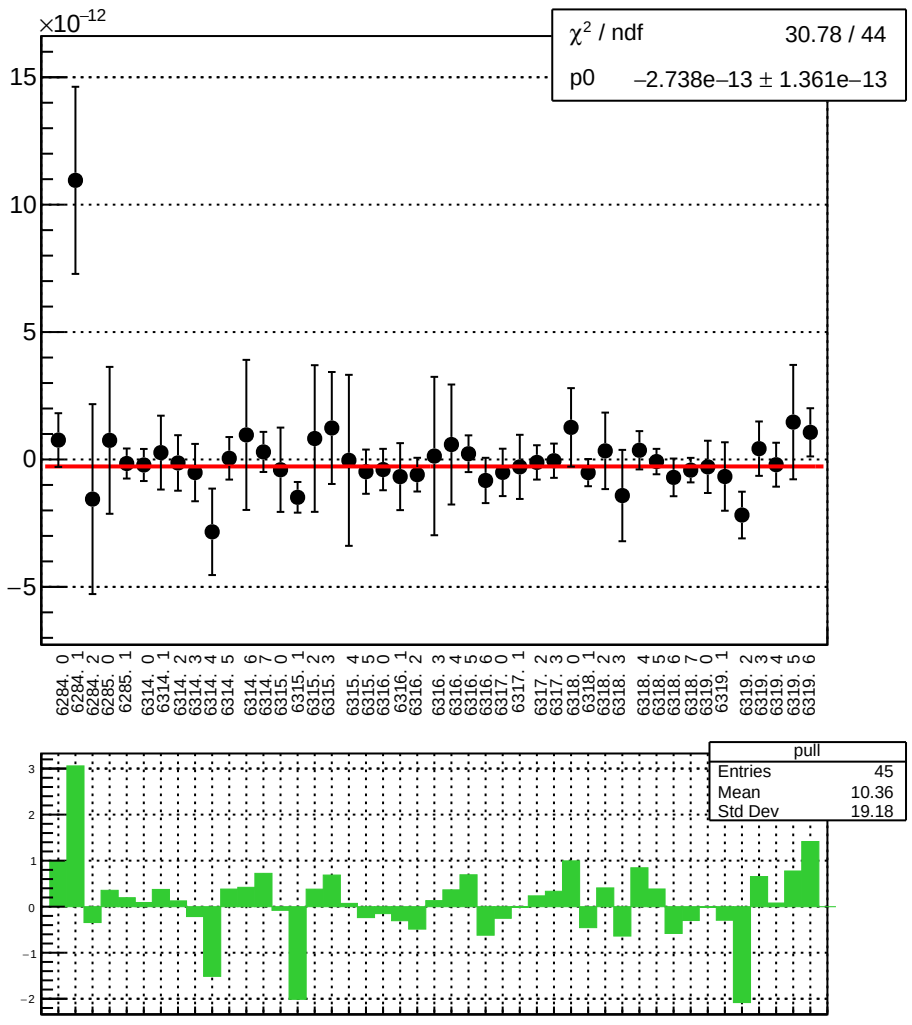
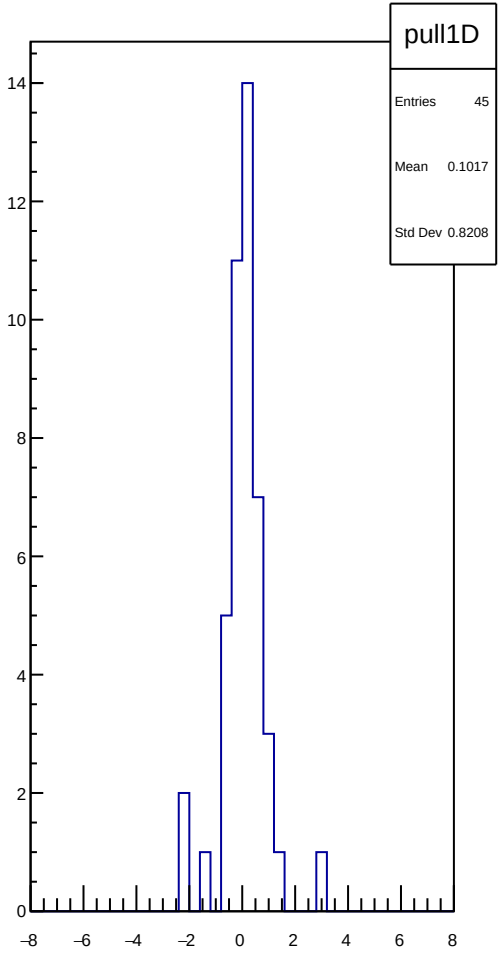
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

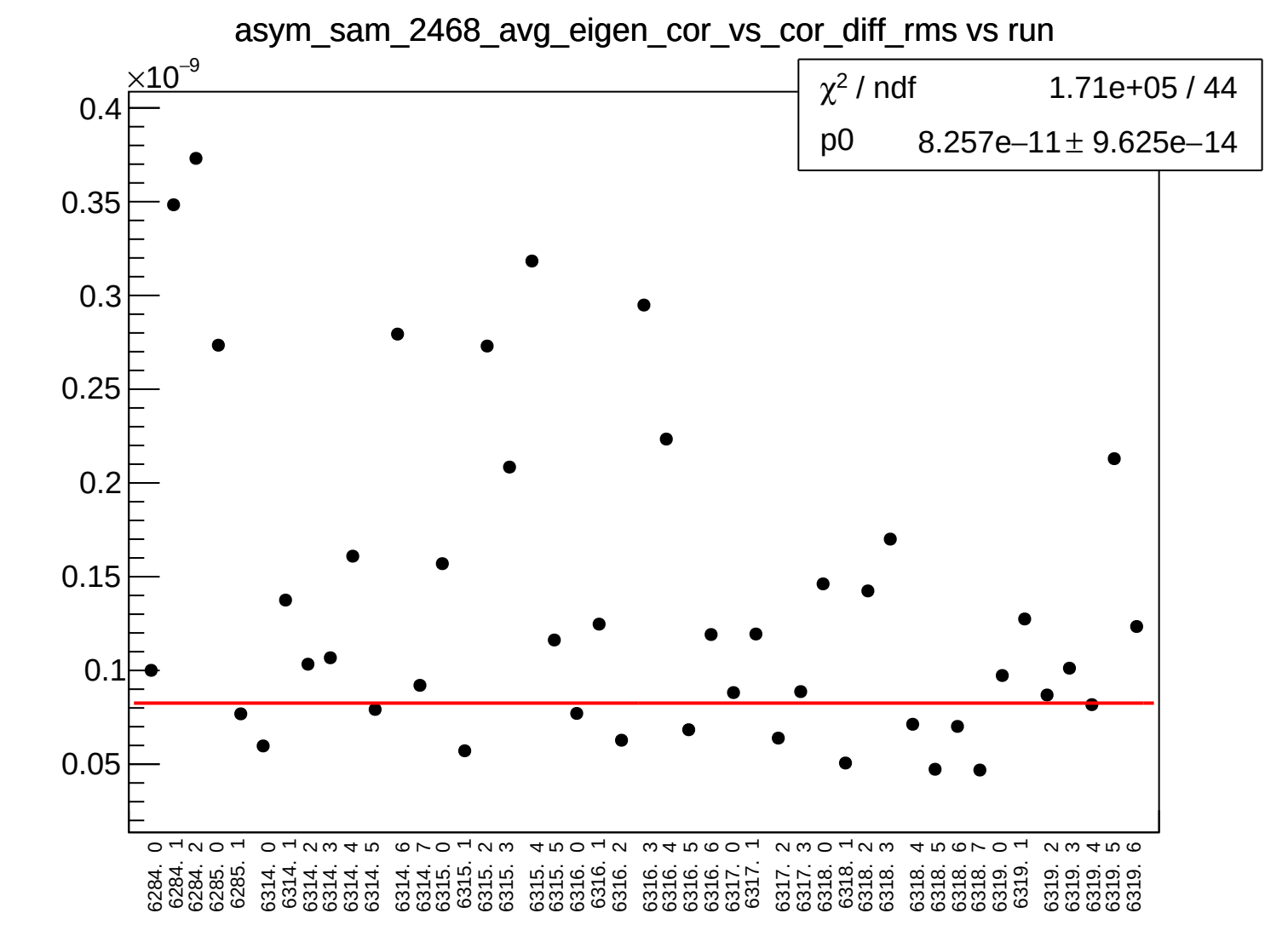

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.41 / 44
p0 −0.004409 ± 0.155
4
2
0
−2
−4
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −54.79
Std Dev 0
3
2
1
0
−1
−2

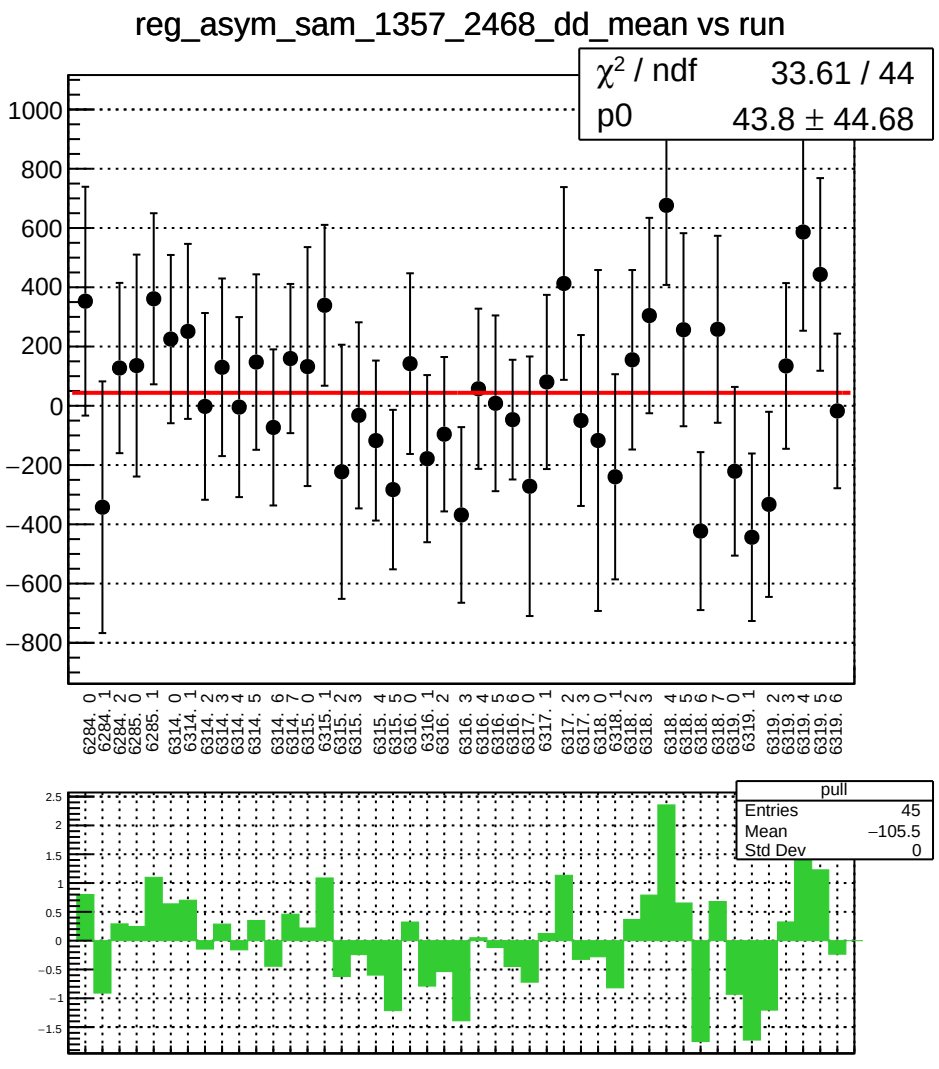

pull1D
Entries 45
Mean −0.02832
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

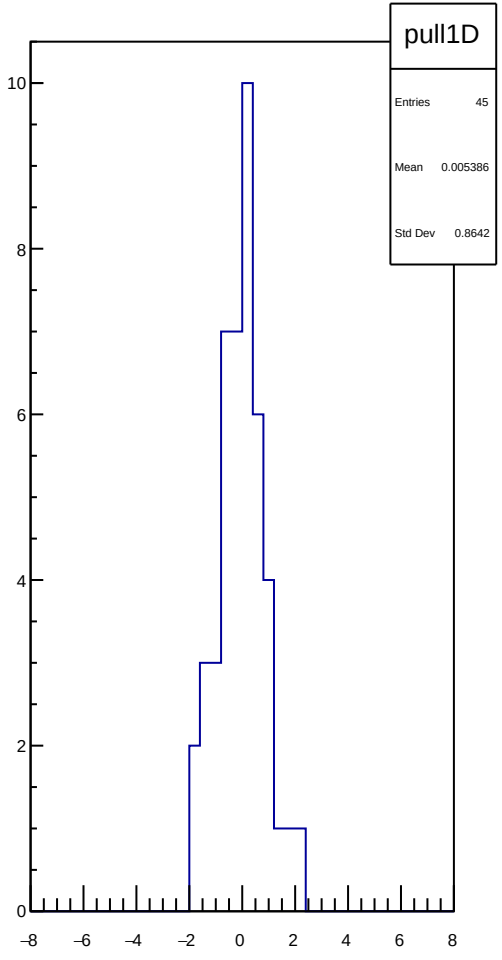

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 44
p0 102.2 ± 0.1096
220
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

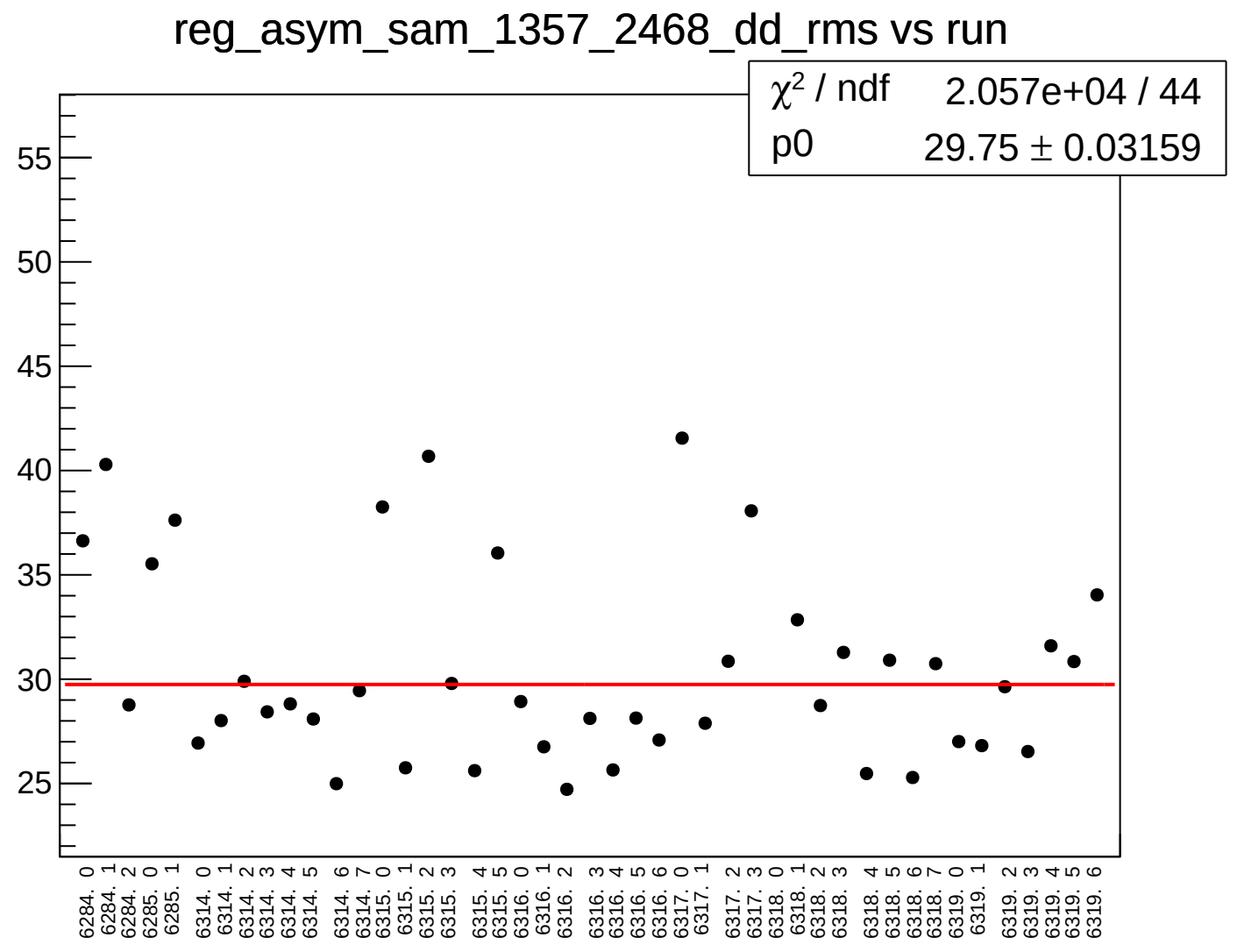

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.78 / 44
p0 −2.738e−13 ± 1.361e−13
15
10
5
0
−5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 10.36
Std Dev 19.18
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.1017
Std Dev 0.8208
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.71e+05 / 44
p0 8.257e−11 ± 9.625e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 33.61 / 44
p0 43.8 ± 44.68
1000
800
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −105.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.005386
Std Dev 0.8642
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.057e+04 / 44
p0 29.75 ± 0.03159
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
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6318. 7
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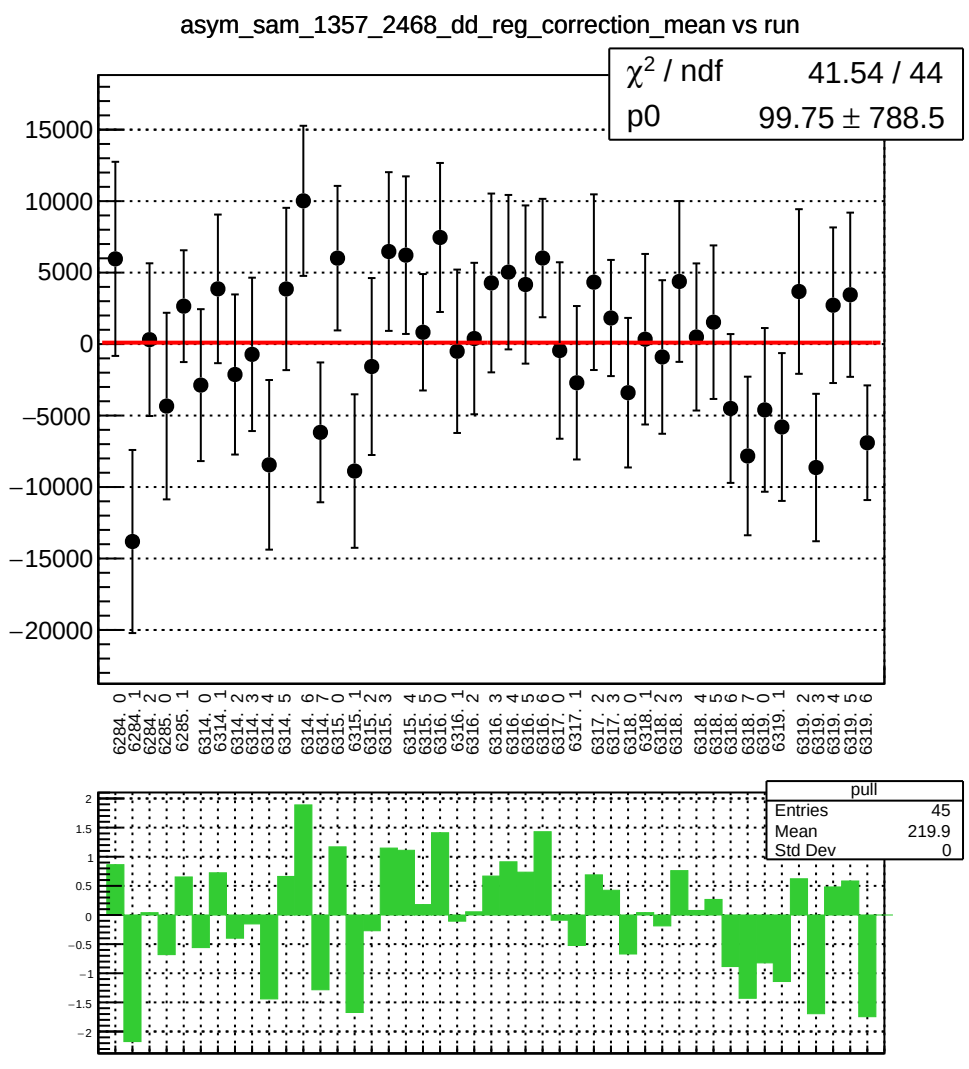
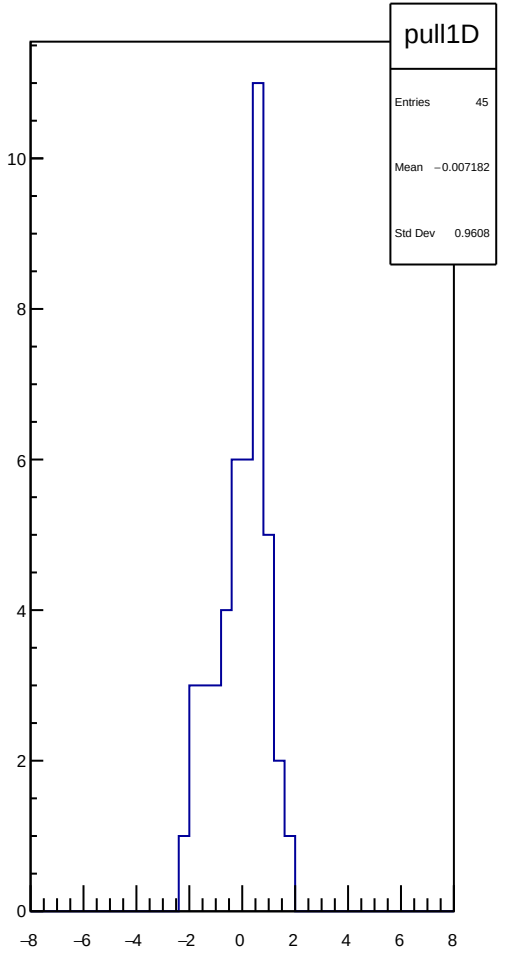
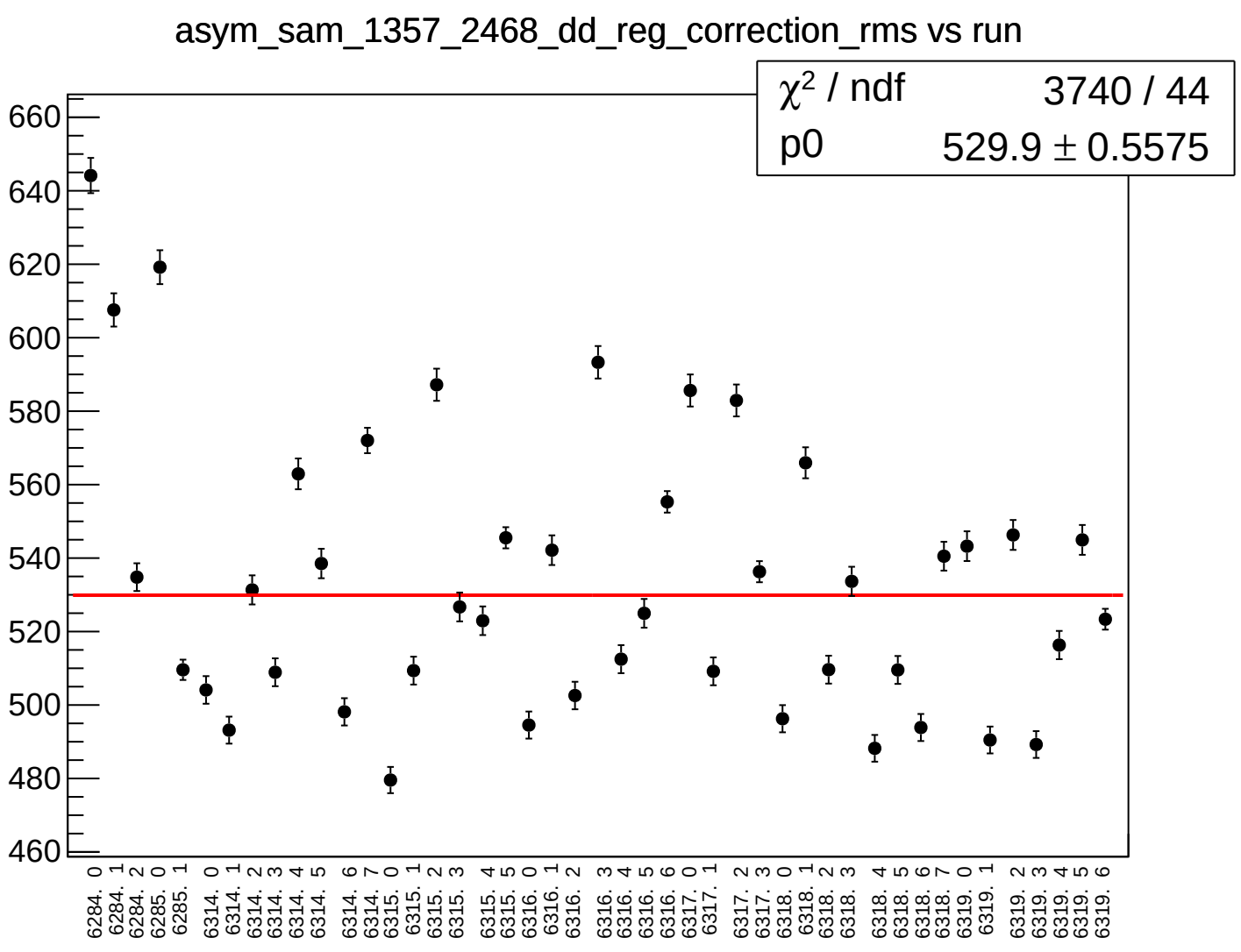
6319. 5
6319. 6


asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 41.54 / 44
p0 99.75 ± 788.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.007182
Std Dev 0.9608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3740 / 44
p0 529.9 ± 0.5575
660
640
620
600
580
560
540
520
500
480
460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
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6318. 3
6318. 4
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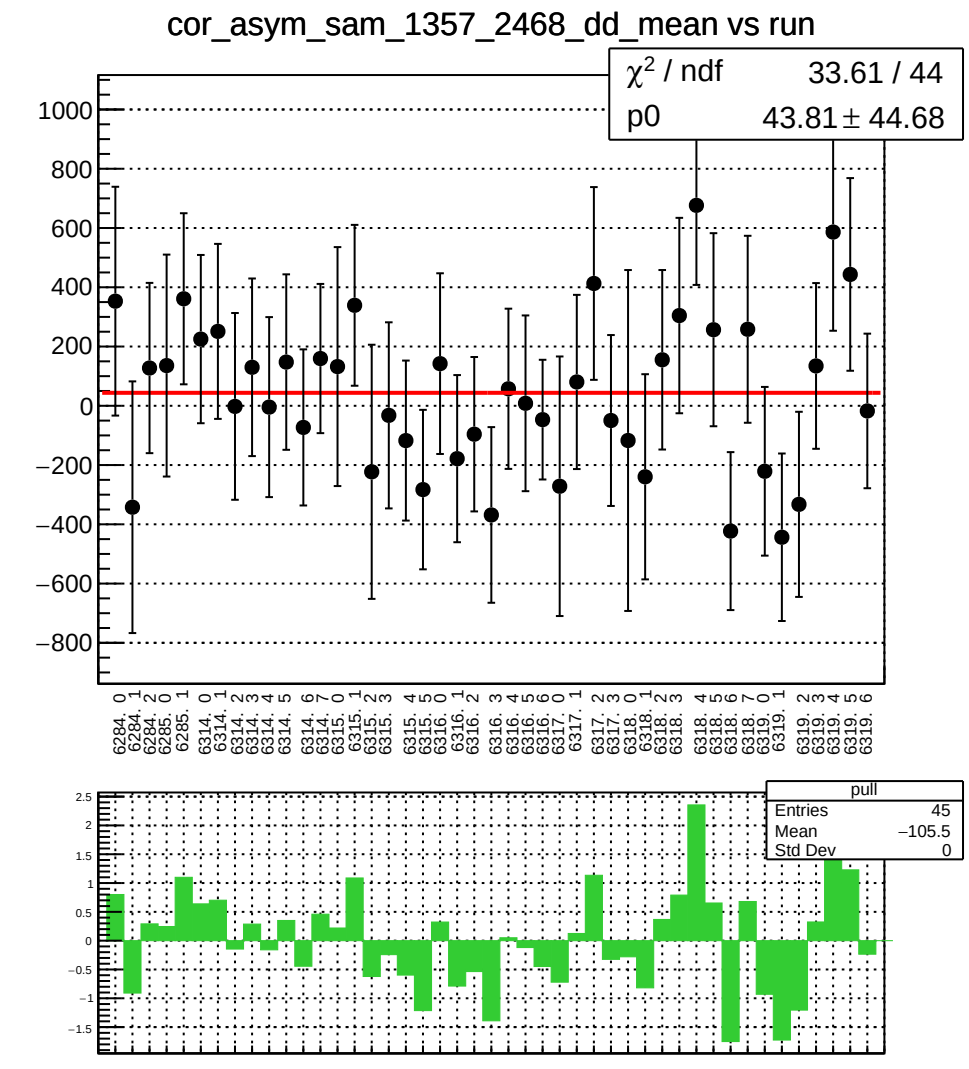
cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 33.61 / 44
p0 43.81 ± 44.68
1000
800
600
400
200
0
−200
−400
−600
−800
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −105.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.005385
Std Dev 0.8642
10
8
6
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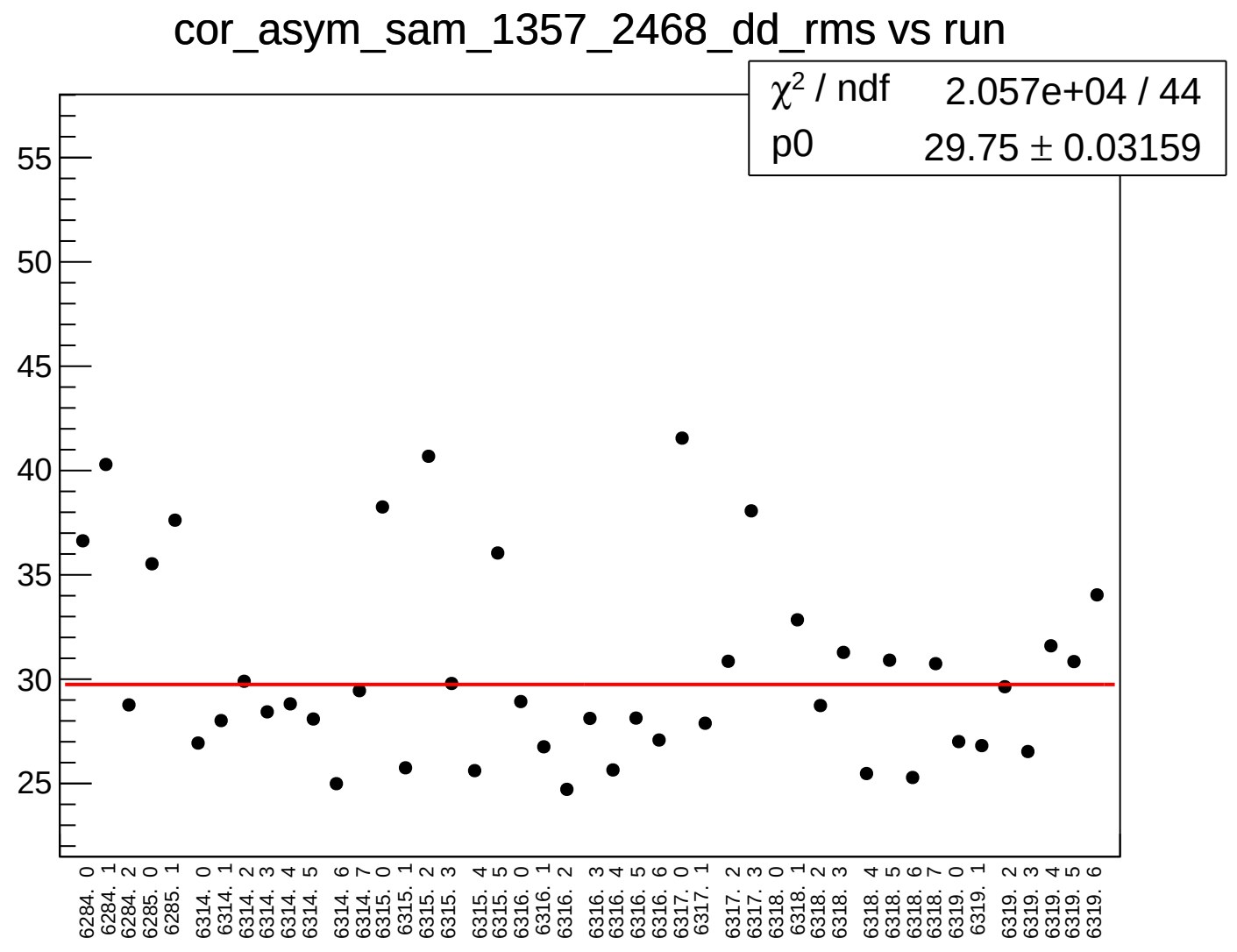
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.057e+04 / 44
p0 29.75 ± 0.03159
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 2
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6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
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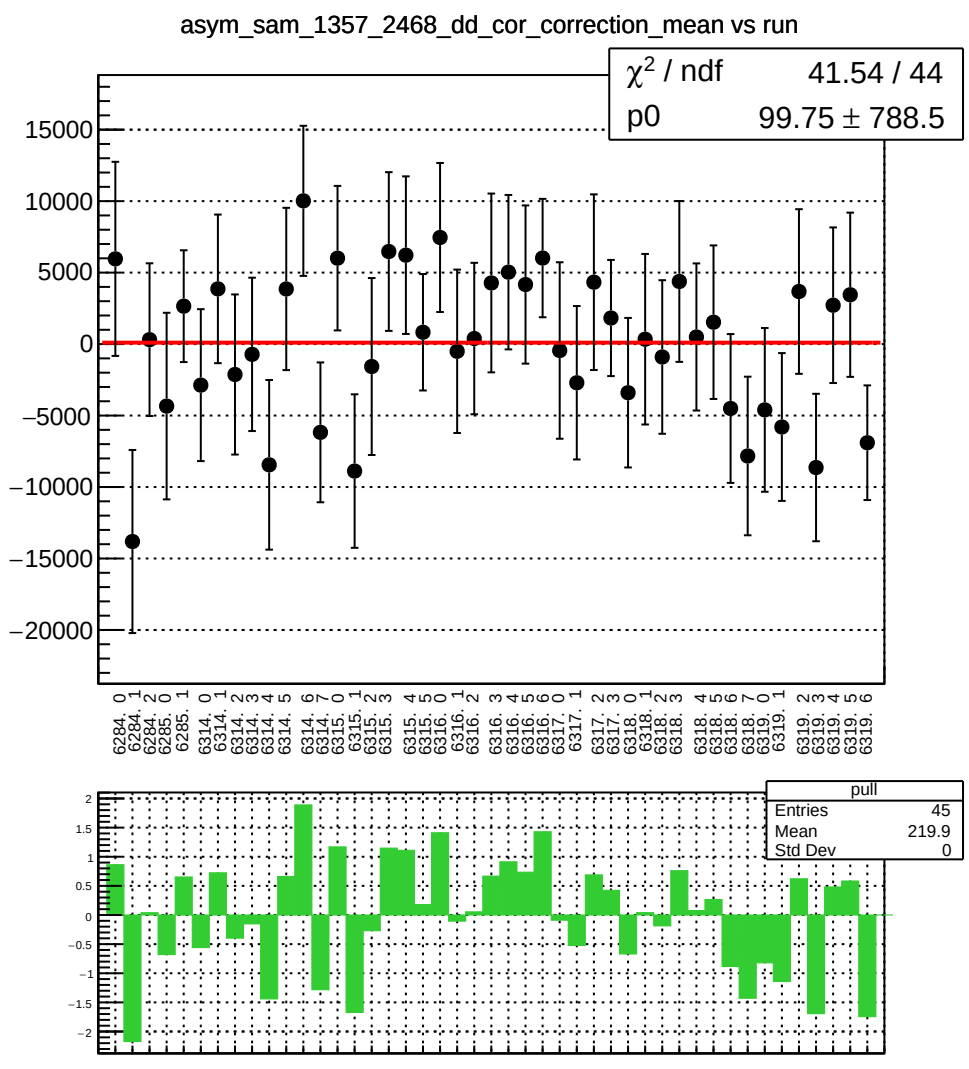
asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 41.54 / 44
p0 99.75 ± 788.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6316. 0
6316. 1
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6316. 6
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6317. 3
6318. 0
6318. 1
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.9
Std Dev 0
2
1.5
1
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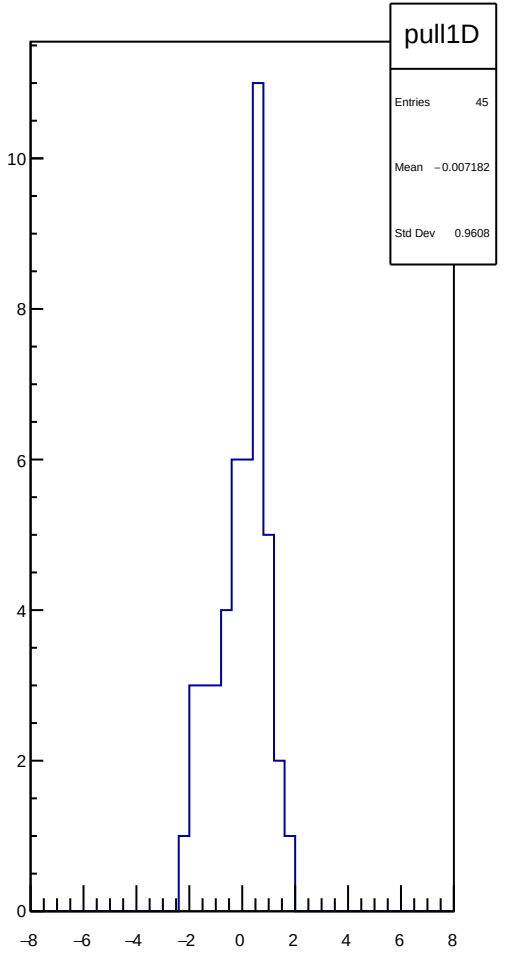
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.007182
Std Dev 0.9608
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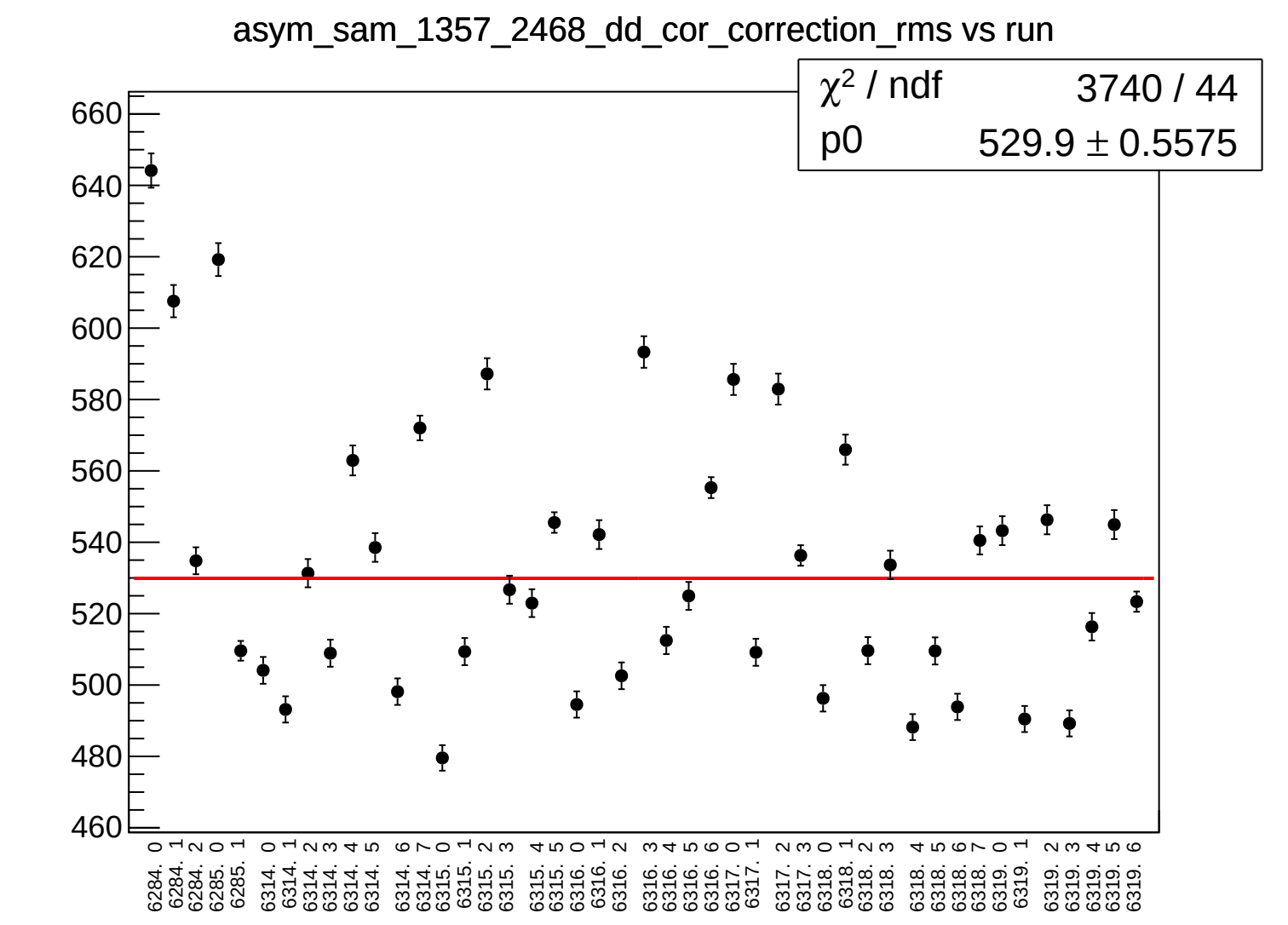
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3740 / 44
p0 529.9 ± 0.5575
660
640
620
600
580
560
540
520
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460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6315. 0
6315. 1
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6317. 1
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6318. 0
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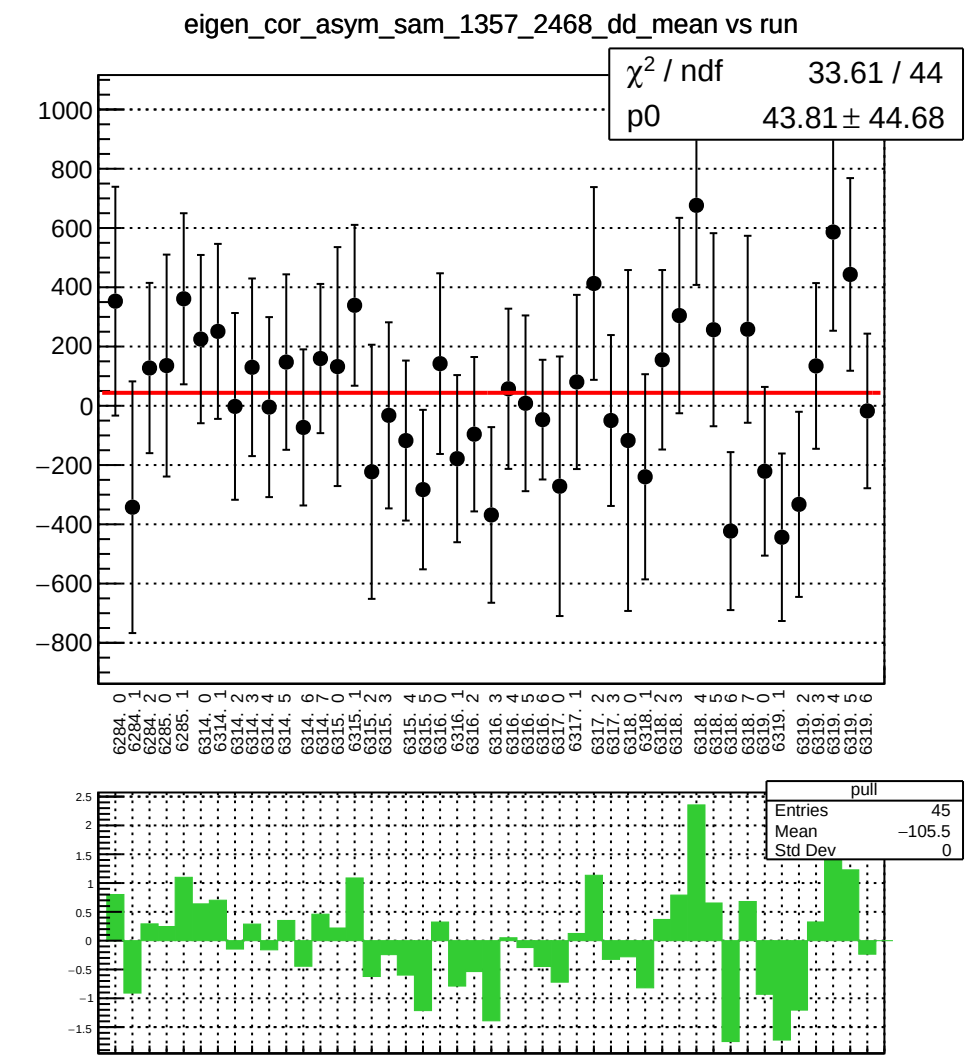
eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 33.61 / 44
p0 43.81 ± 44.68
1000
800
600
400
200
0
−200
−400
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−800
6284. 0
6284. 1
6284. 2
6285. 0
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6318. 6
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6319. 0
6319. 1
6319. 2
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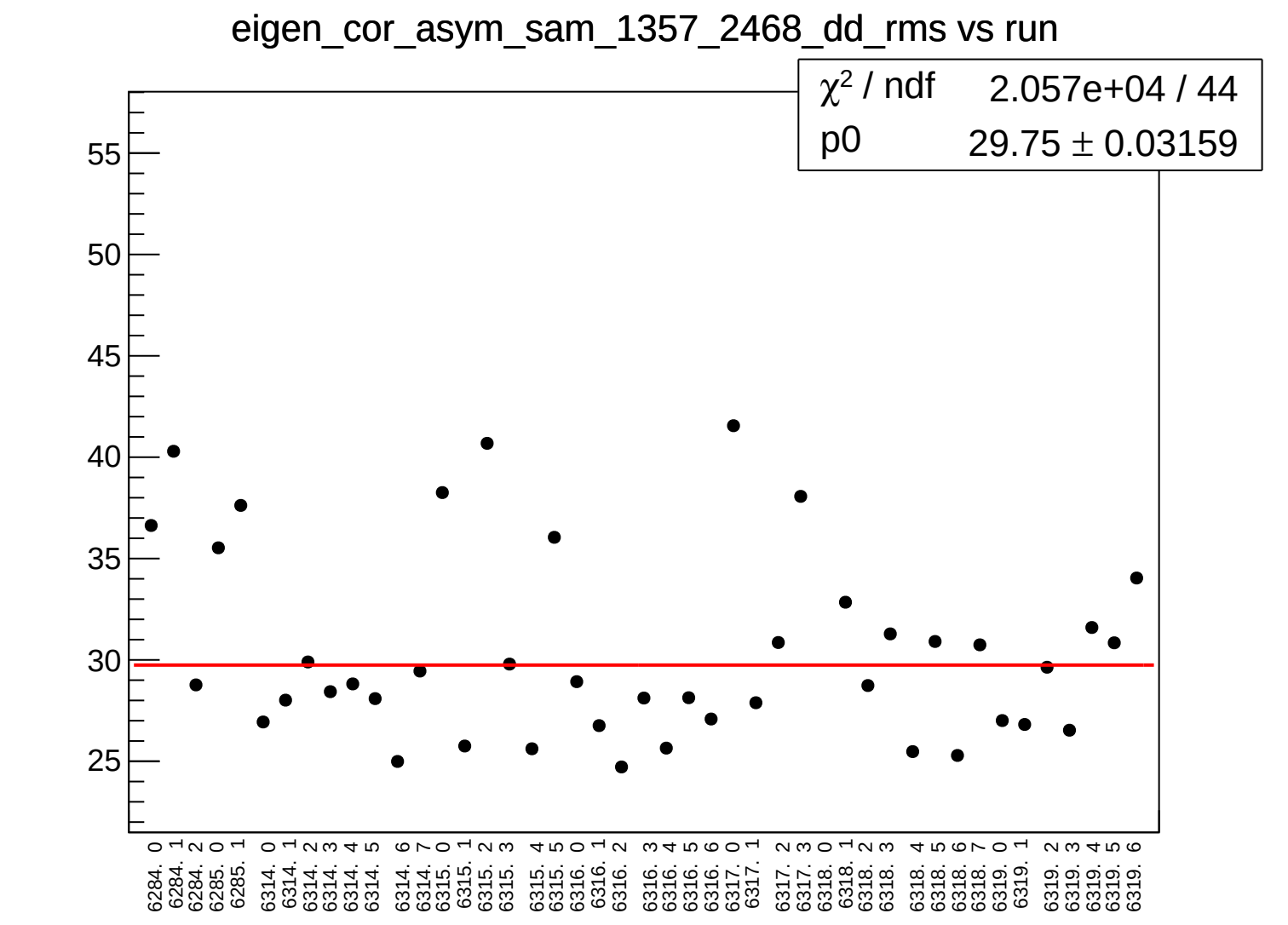
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −105.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.005385
Std Dev 0.8642
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.057e+04 / 44
p0 29.75 ± 0.03159
55
50
45
40
35
30
25
6284. 0
6284. 1
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
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6316. 3
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6316. 5
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6317. 0
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6318. 0
6318. 1
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6318. 3
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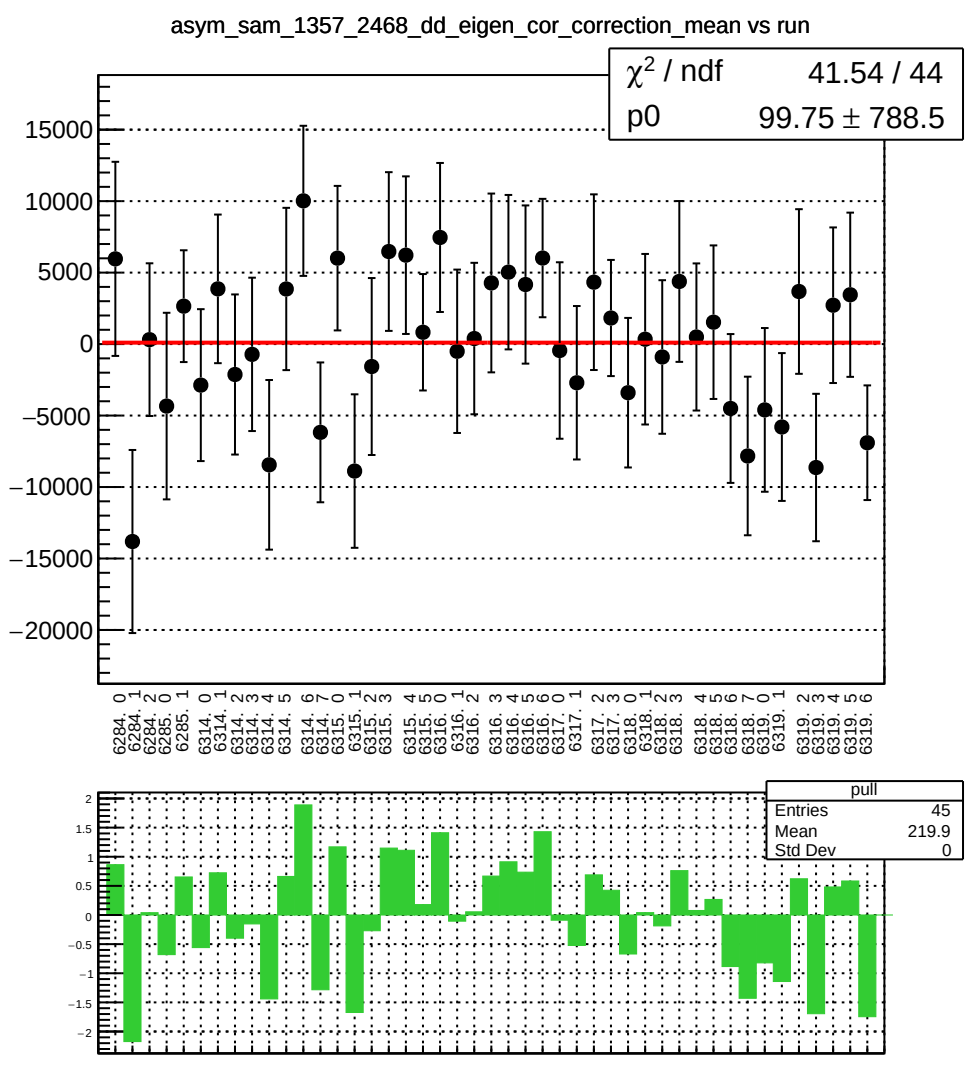
6319. 6


asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.54 / 44
p0 99.75 ± 788.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6314. 7
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6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
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6317. 0
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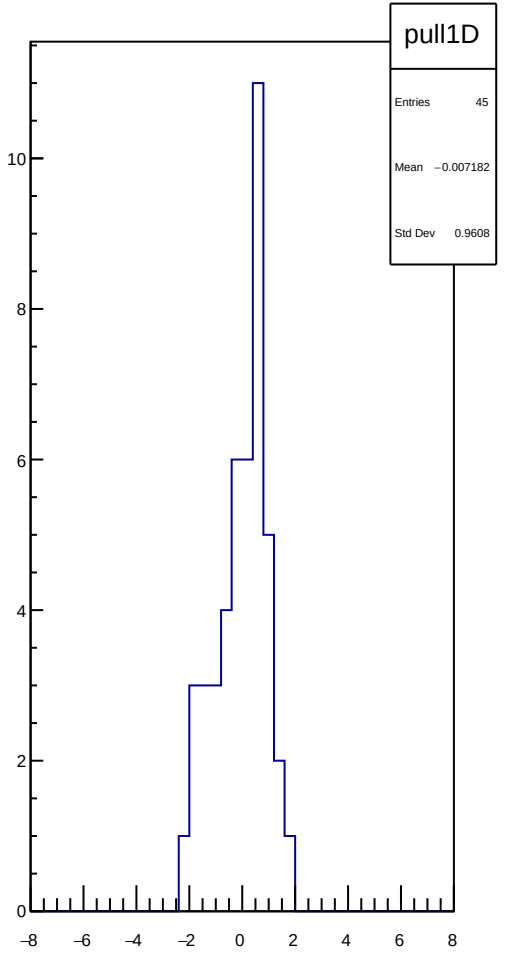
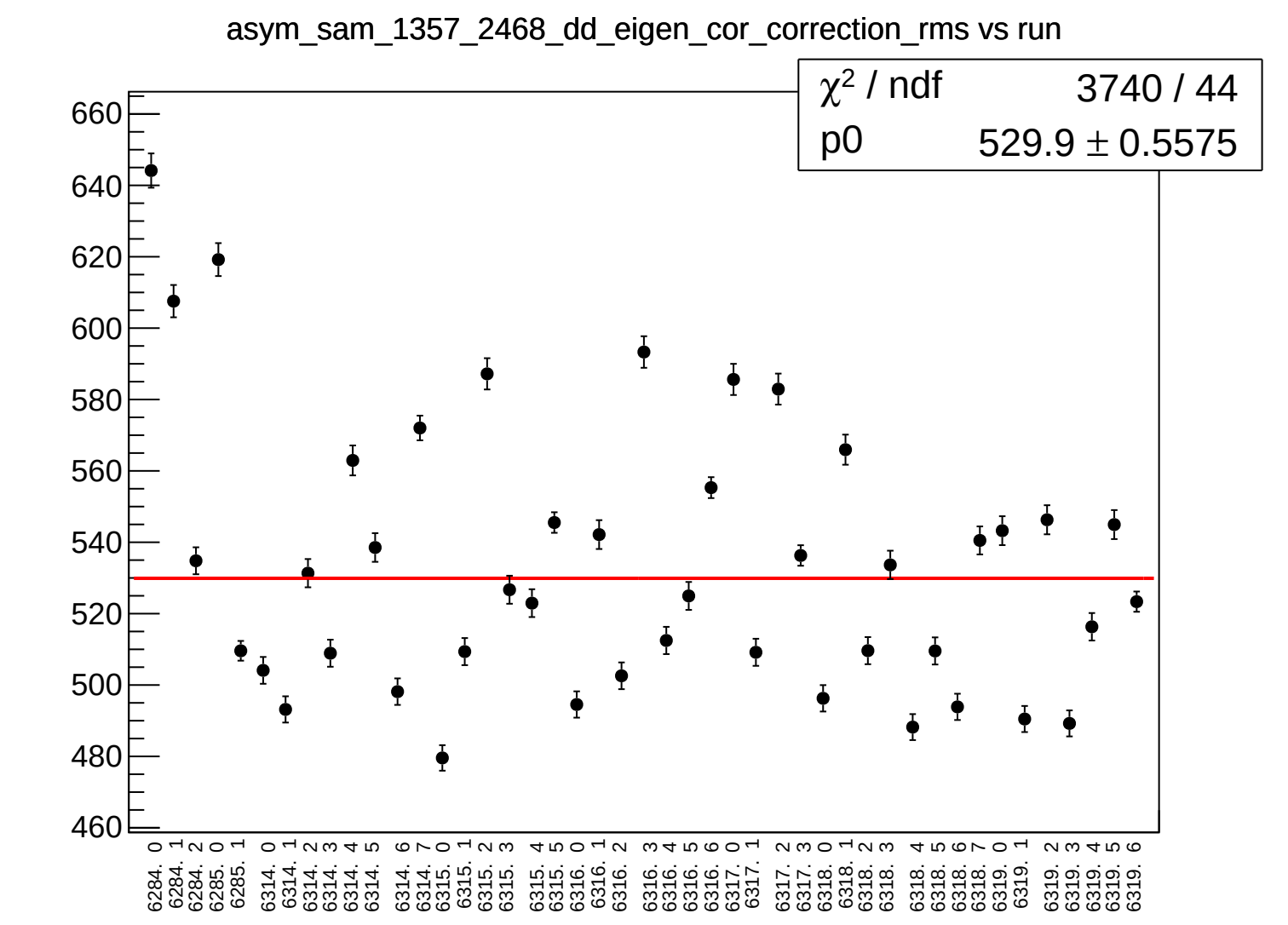
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 219.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.007182
Std Dev 0.9608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3740 / 44
p0 529.9 ± 0.5575
660
640
620
600
580
560
540
520
500
480
460
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
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6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
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6316. 0
6316. 1
6316. 2
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6316. 5
6316. 6
6317. 0
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6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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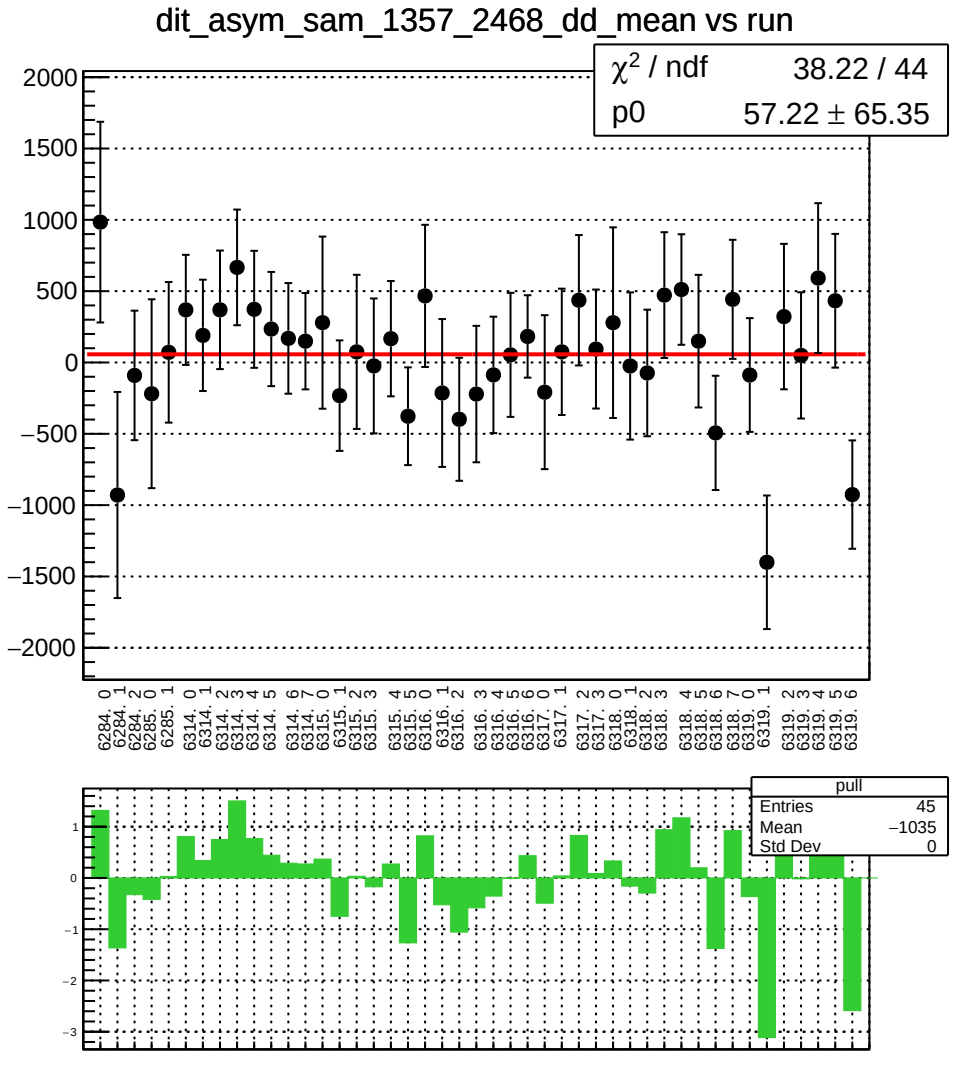
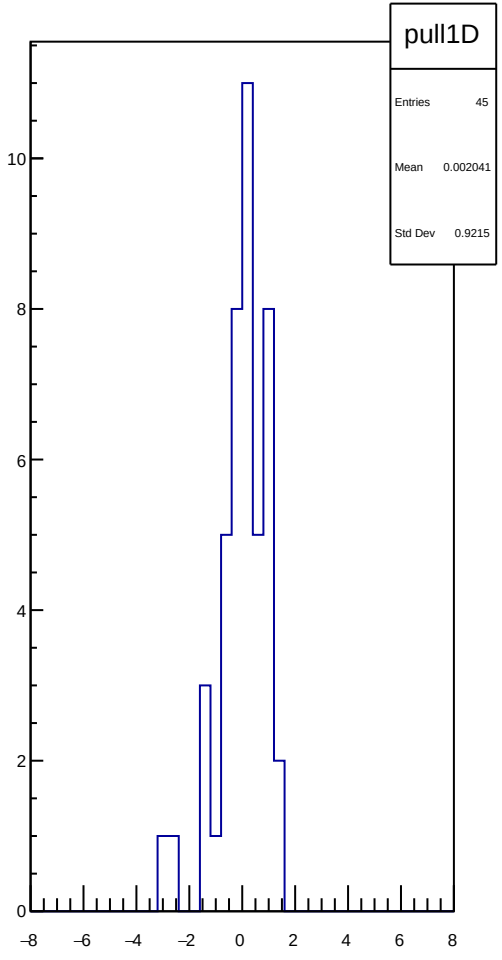
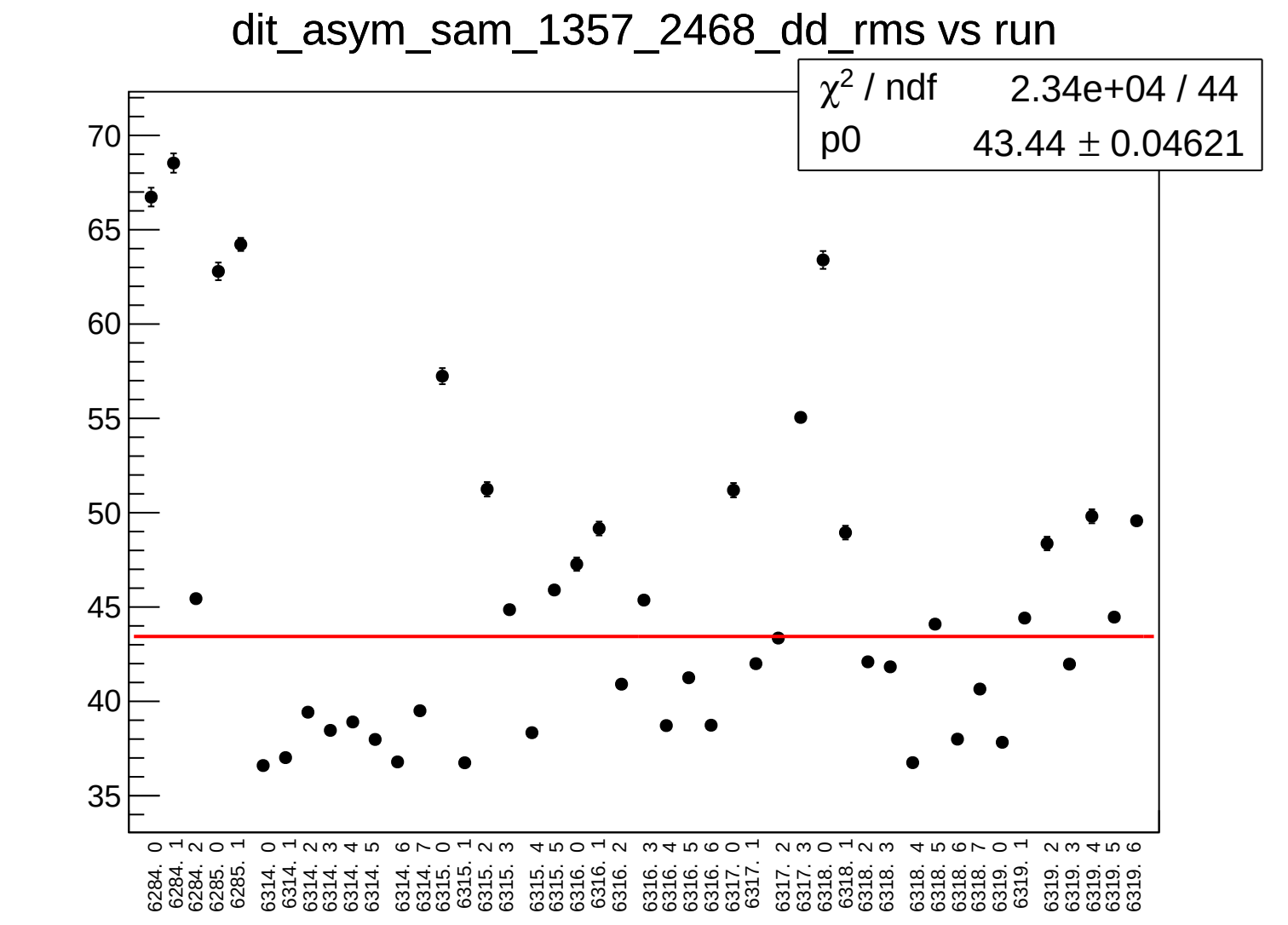
6319. 6


dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 38.22 / 44
p0 57.22 ± 65.35
pull
Entries 45
Mean −1035
Std Dev 0


pull1D
Entries 45
Mean 0.002041
Std Dev 0.9215


dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.34e+04 / 44
p0 43.44 ± 0.04621
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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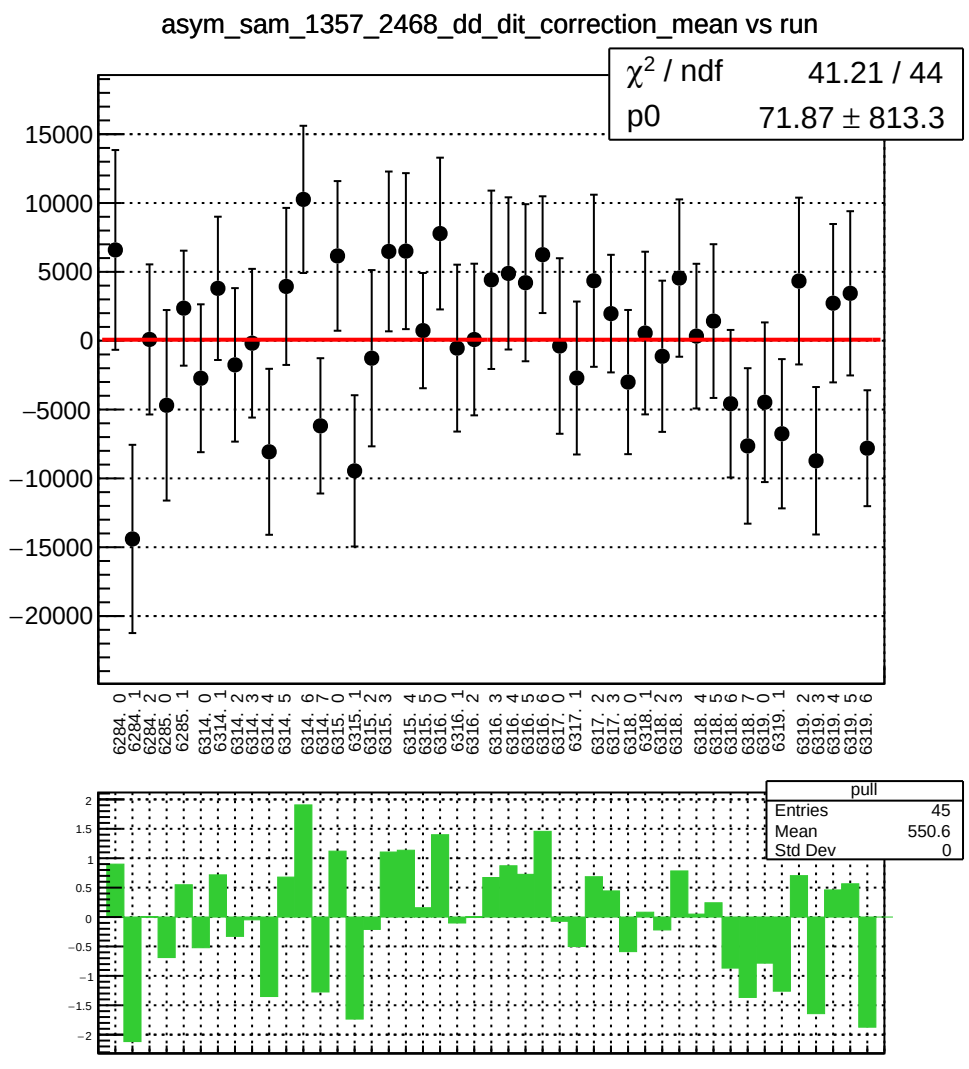
6319. 6


asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 41.21 / 44
p0 71.87 ± 813.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
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6318. 2
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6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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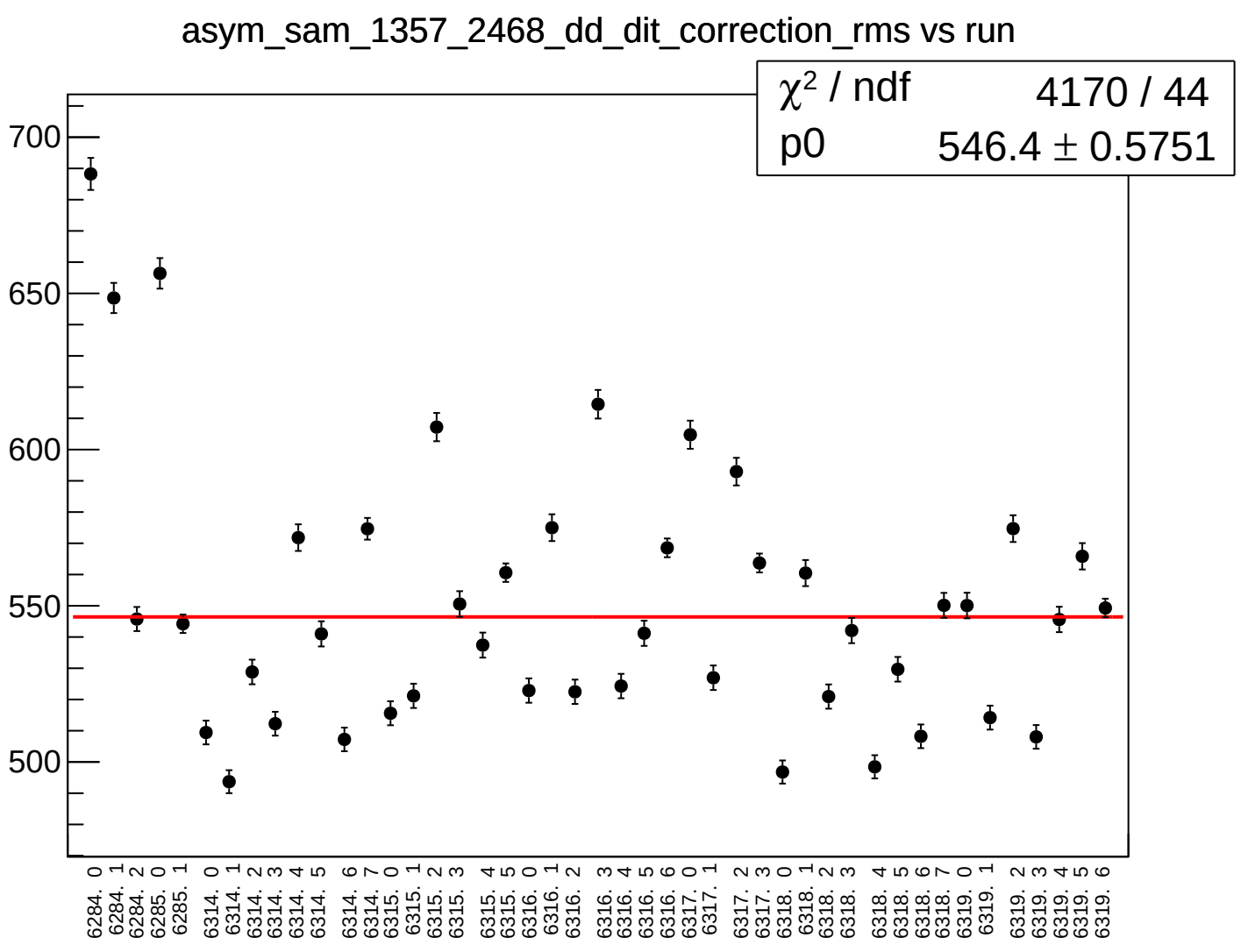
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 550.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002845
Std Dev 0.957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4170 / 44
p0 546.4 ± 0.5751
700
650
600
550
500
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6284. 2
6285. 0
6285. 1
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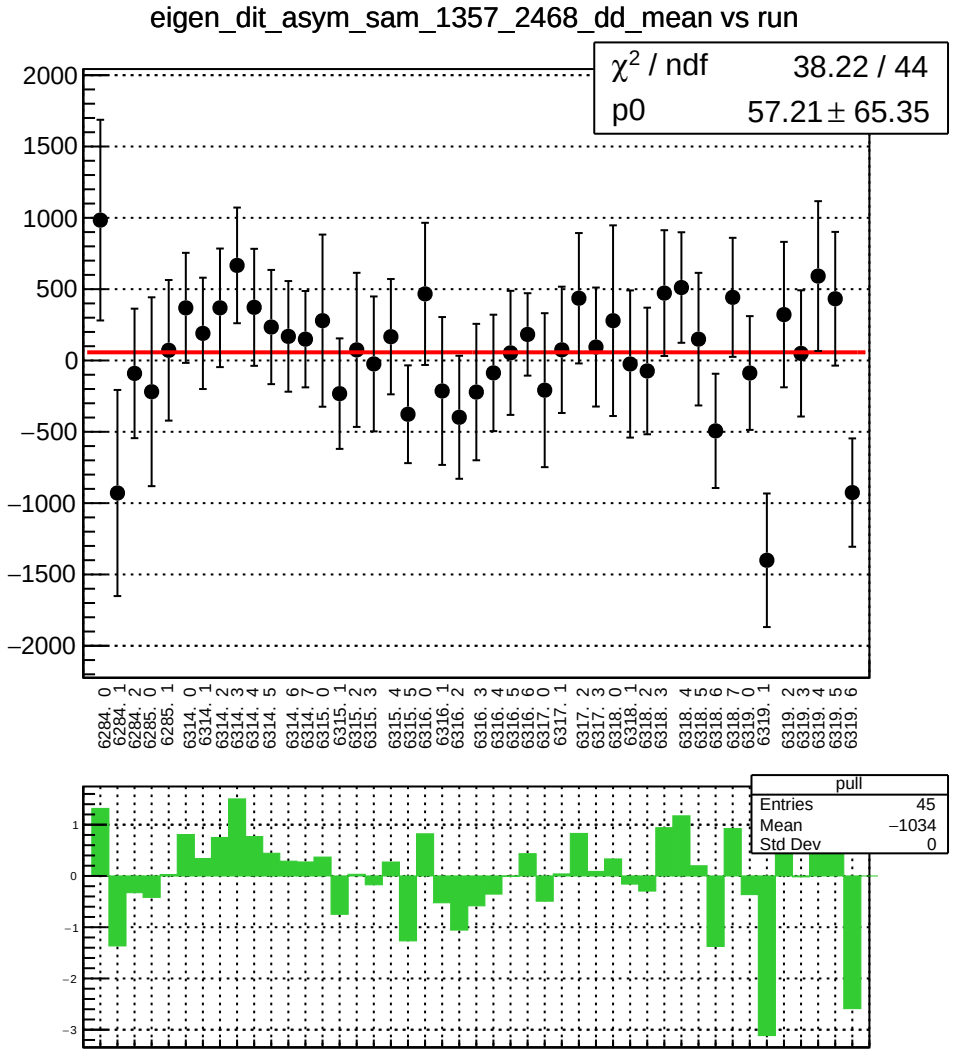
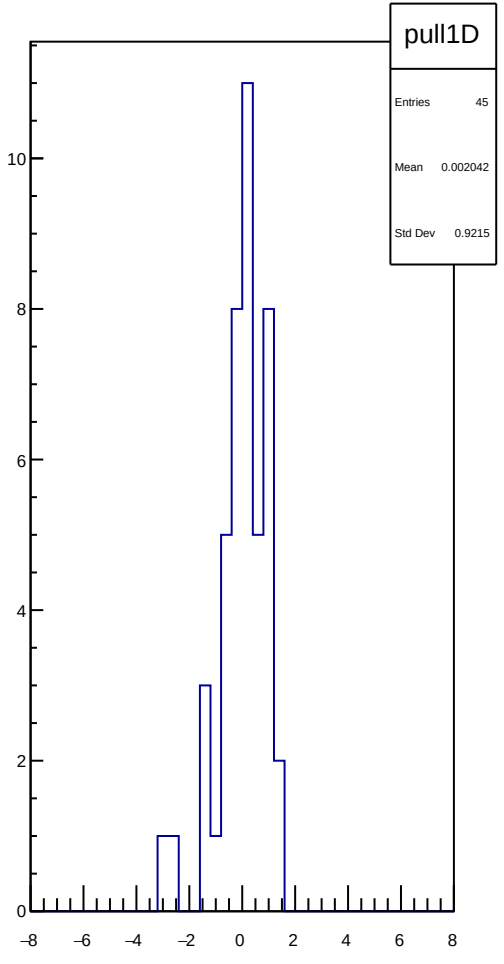
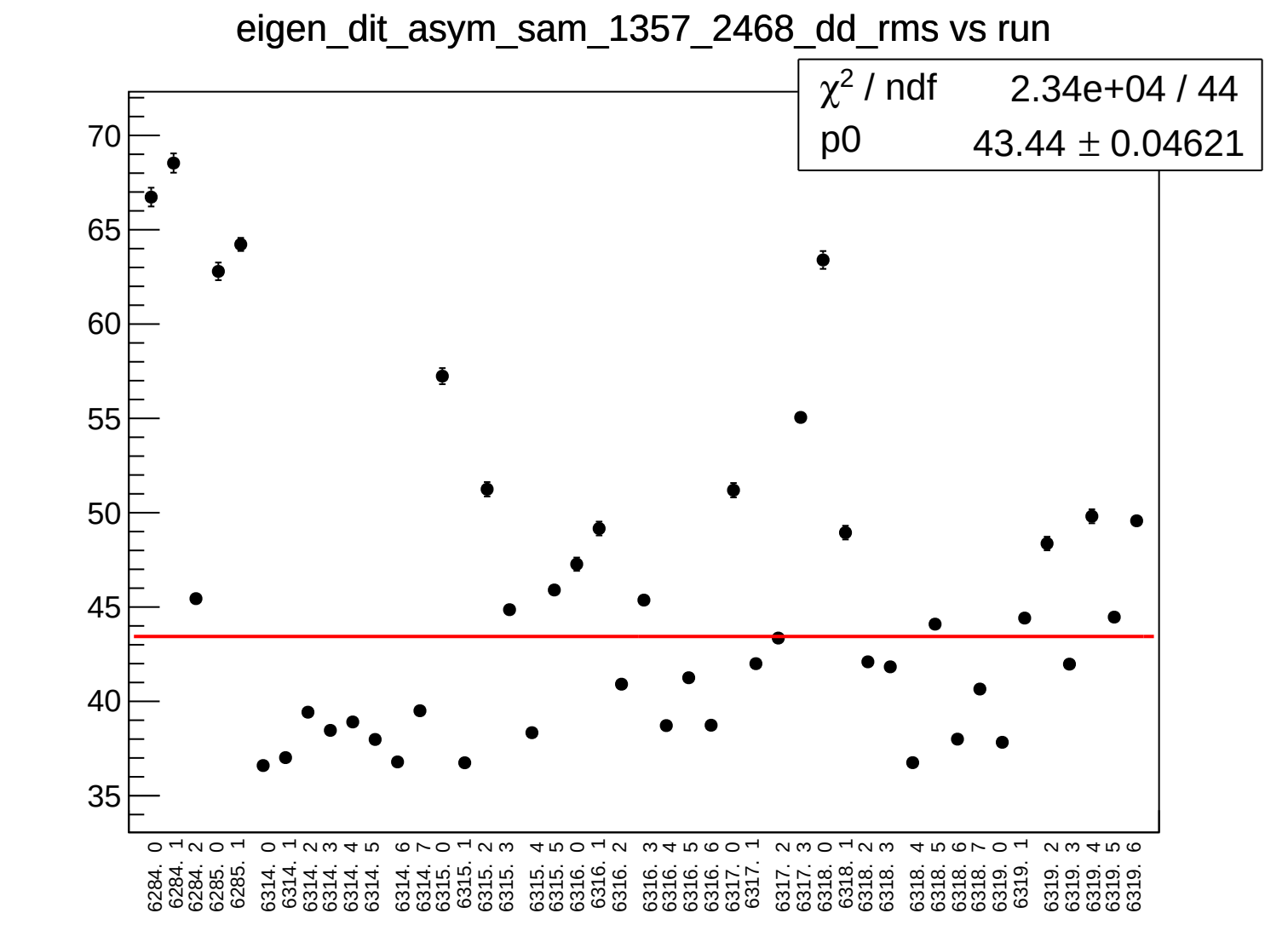
6319. 6


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 38.22 / 44
p0 57.21 ± 65.35
pull
Entries 45
Mean −1034
Std Dev 0


pull1D
Entries 45
Mean 0.002042
Std Dev 0.9215


eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.34e+04 / 44
p0 43.44 ± 0.04621
70
65
60
55
50
45
40
35
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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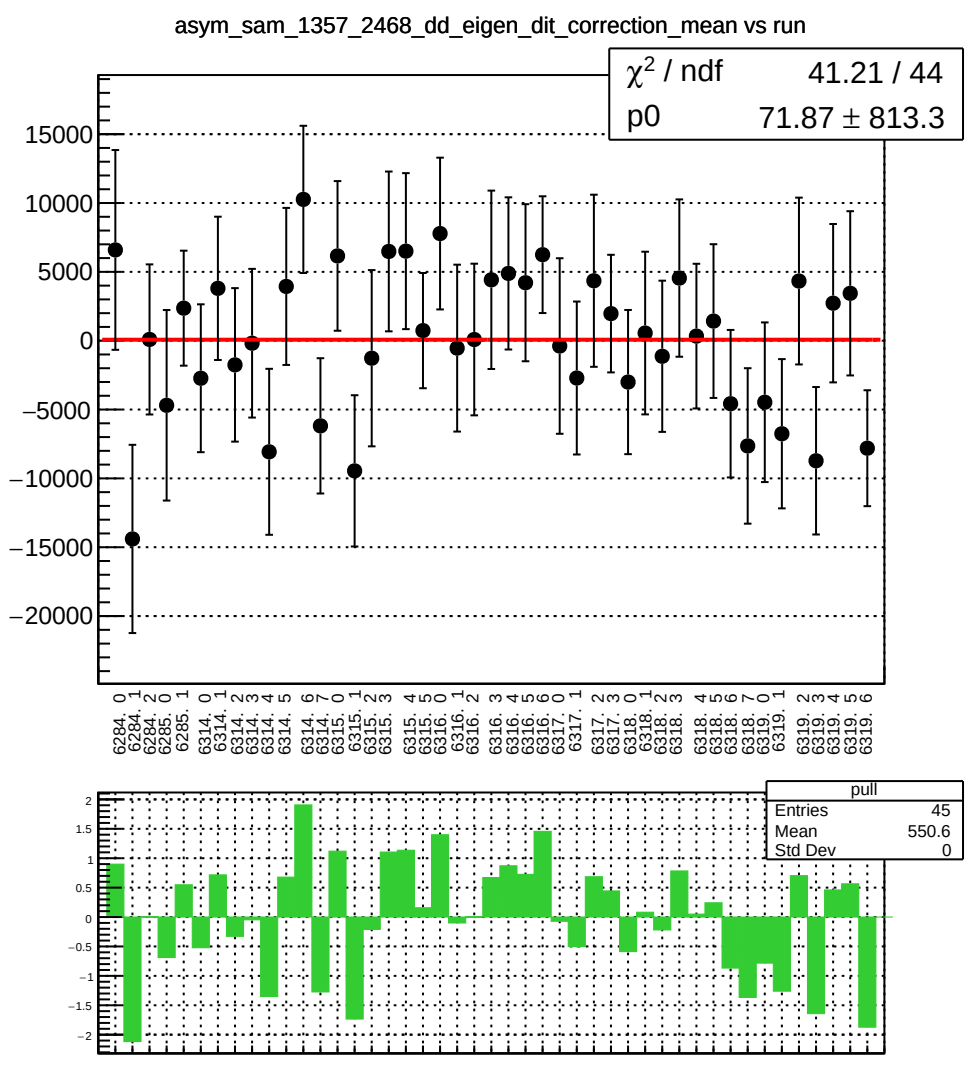
asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.21 / 44
p0 71.87 ± 813.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
6315. 0
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6315. 4
6315. 5
6316. 0
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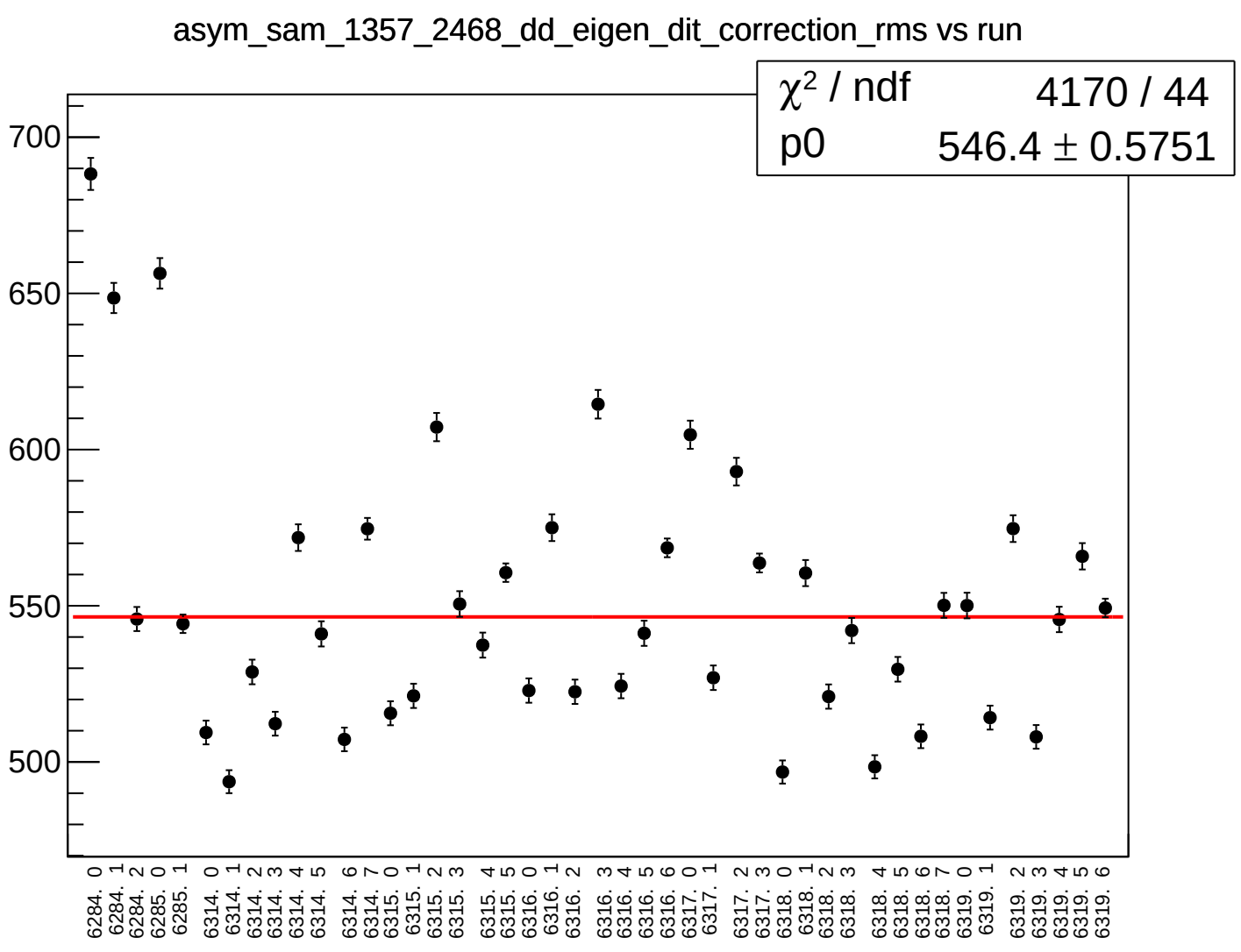
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 550.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002845
Std Dev 0.957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4170 / 44
p0 546.4 ± 0.5751
700
650
600
550
500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
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6319. 2
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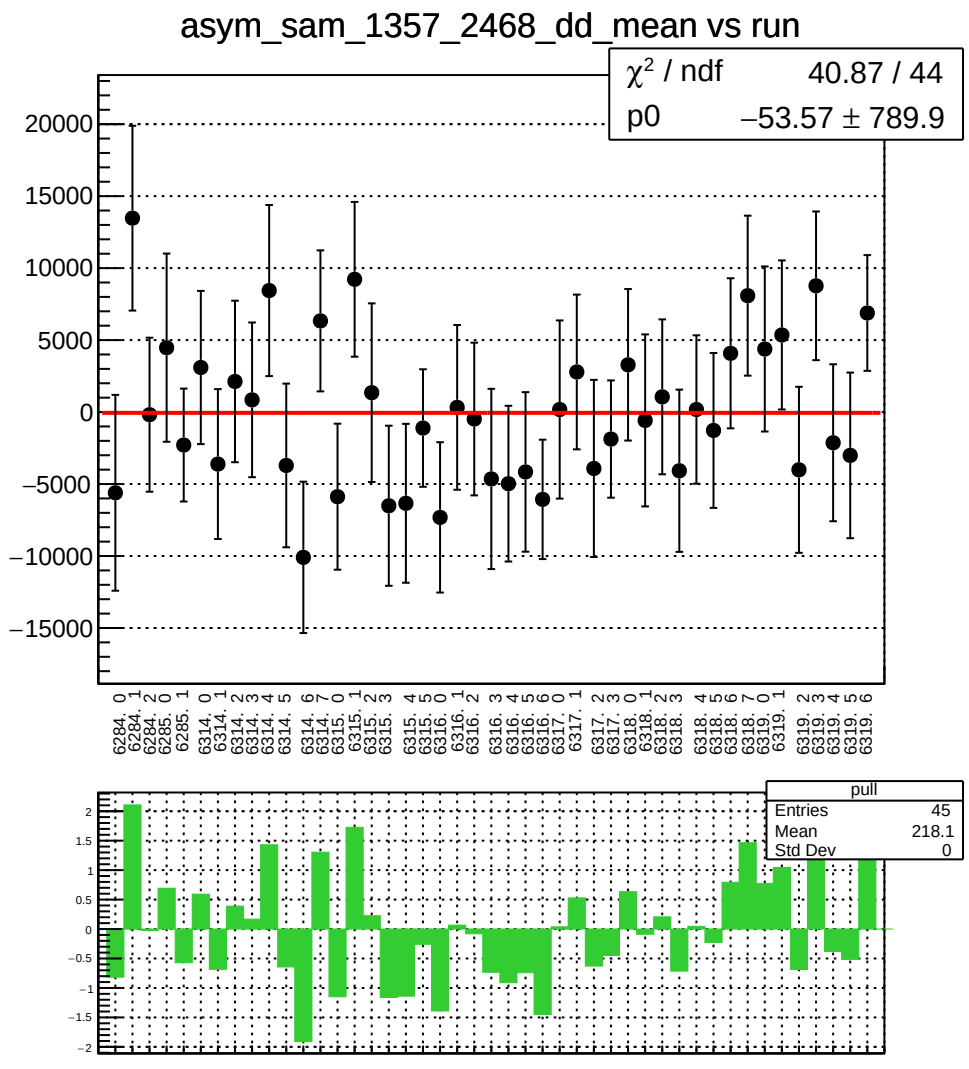
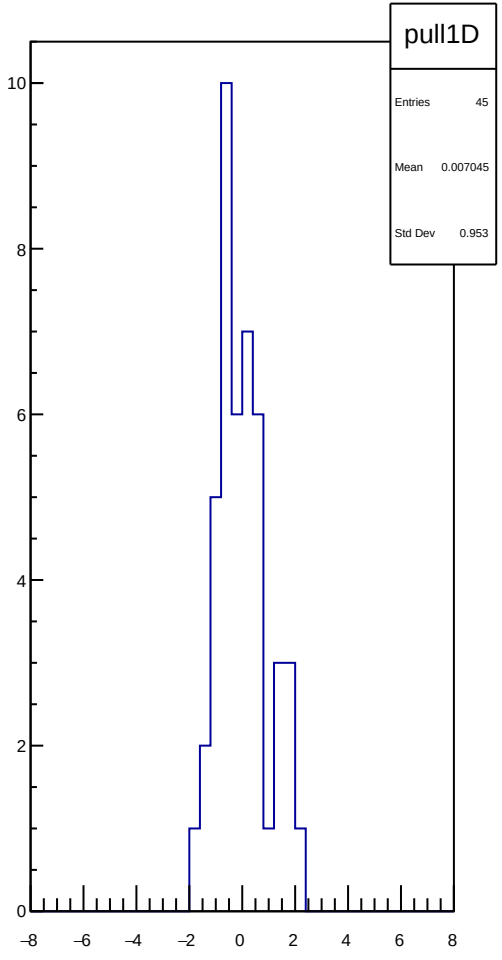
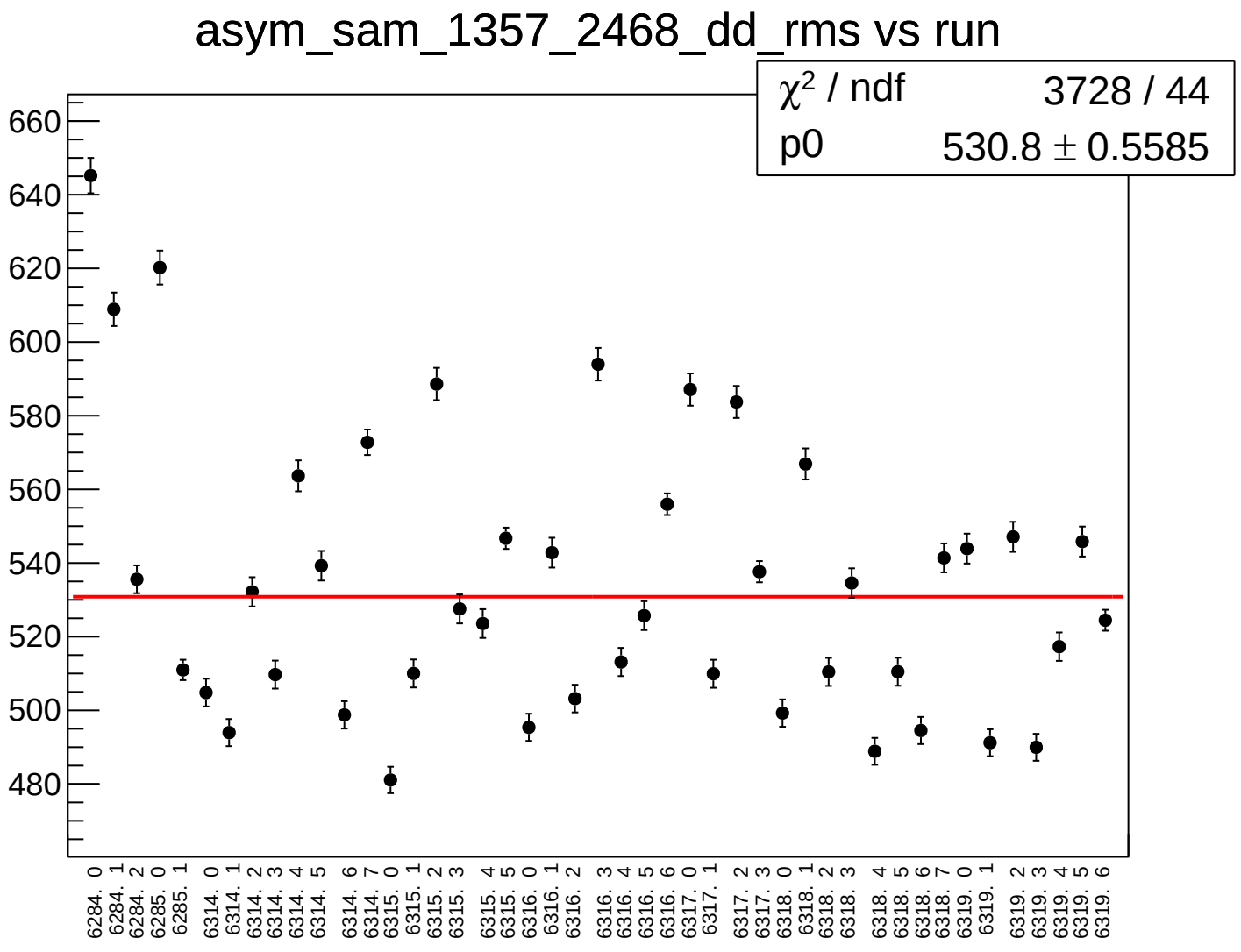
6319. 5
6319. 6


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.87 / 44
p0 −53.57 ± 789.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 218.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007045
Std Dev 0.953
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3728 / 44
p0 530.8 ± 0.5585
660
640
620
600
580
560
540
520
500
480
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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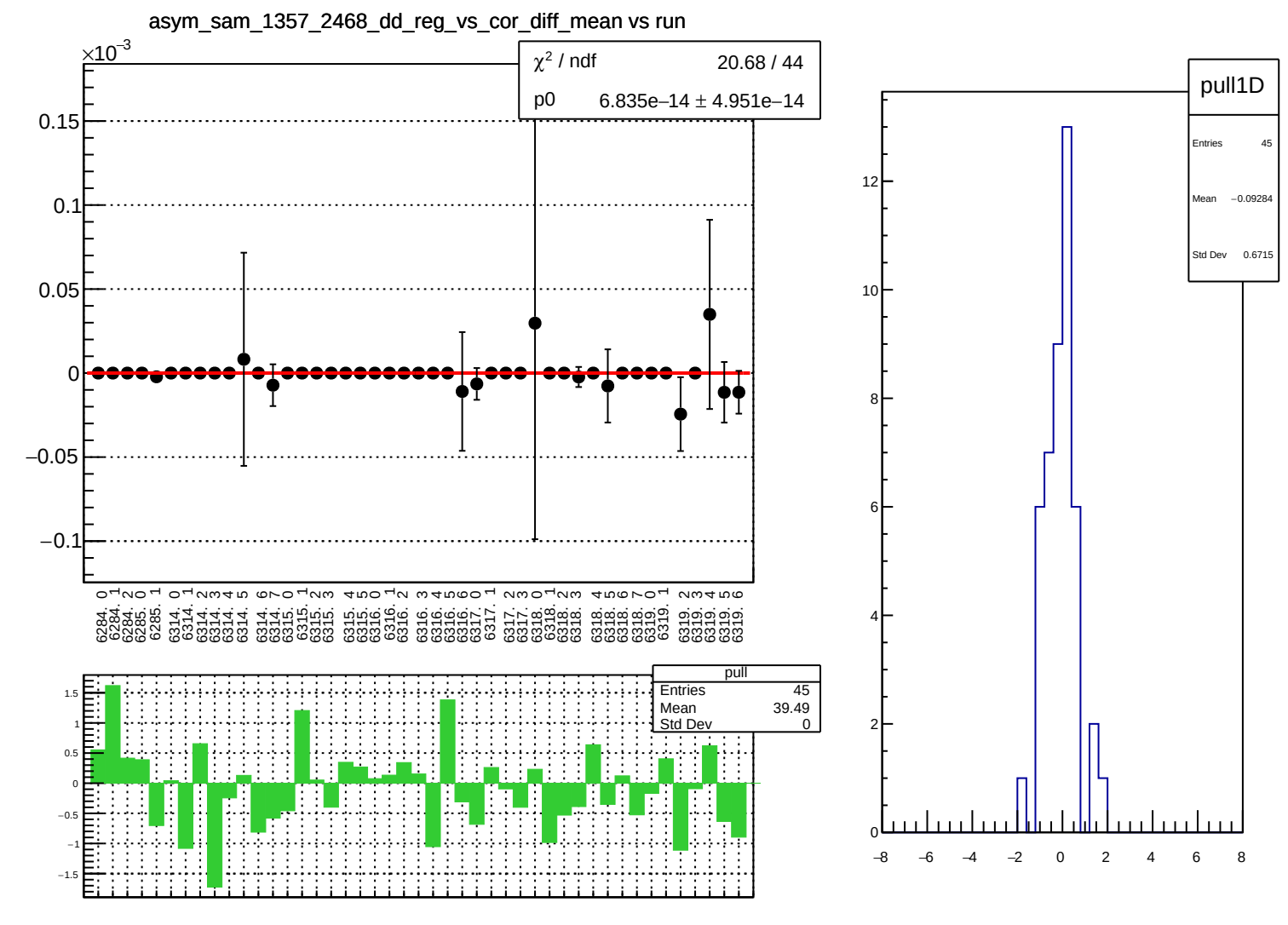
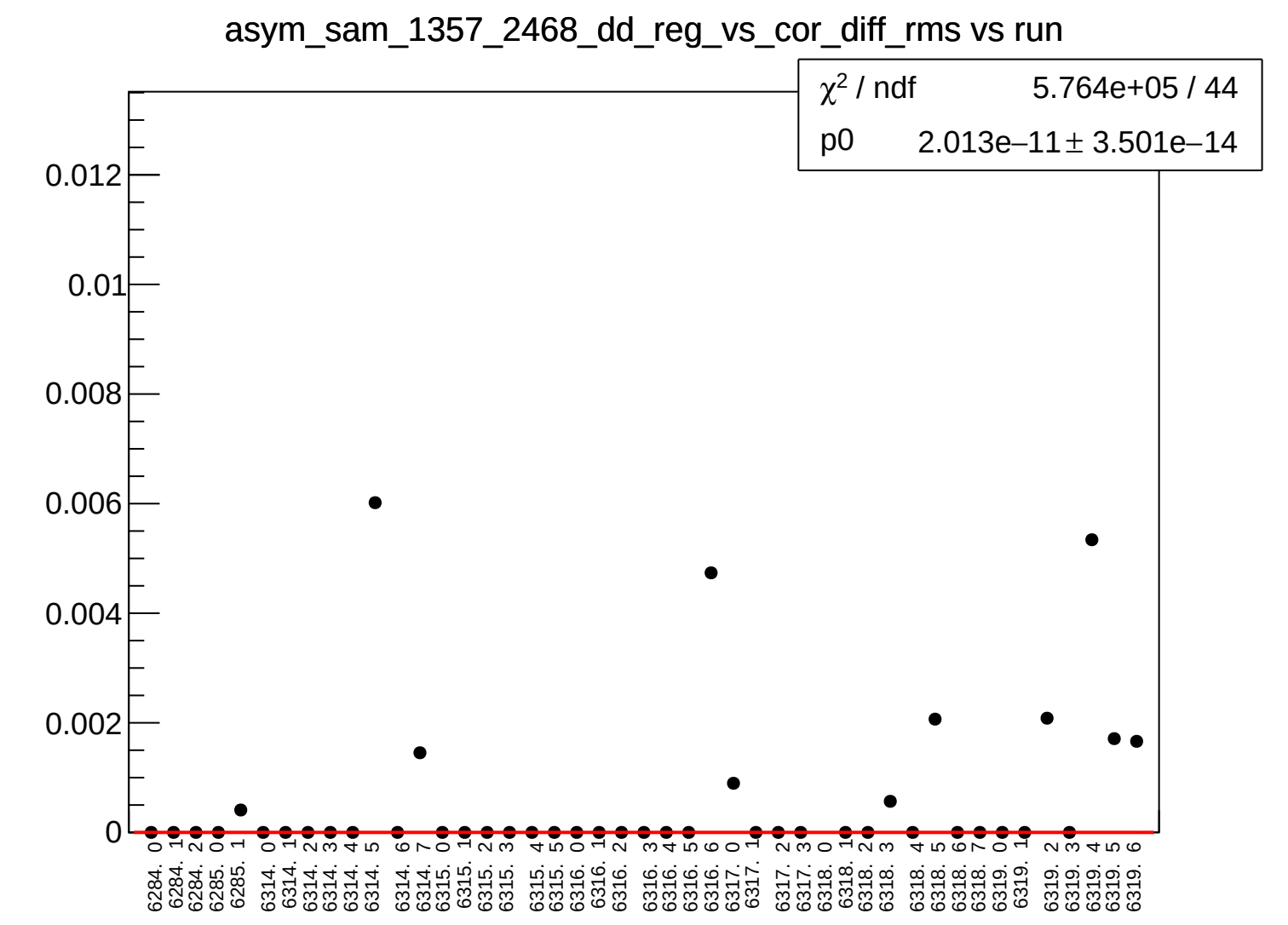
6319. 5
6319. 6


asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 20.68 / 44
p0 6.835e−14 ± 4.951e−14
0.15
0.1
0.05
0
−0.05
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 39.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.09284
Std Dev 0.6715
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.764e+05 / 44
p0 2.013e−11 ± 3.501e−14
0.012
0.01
0.008
0.006
0.004
0.002
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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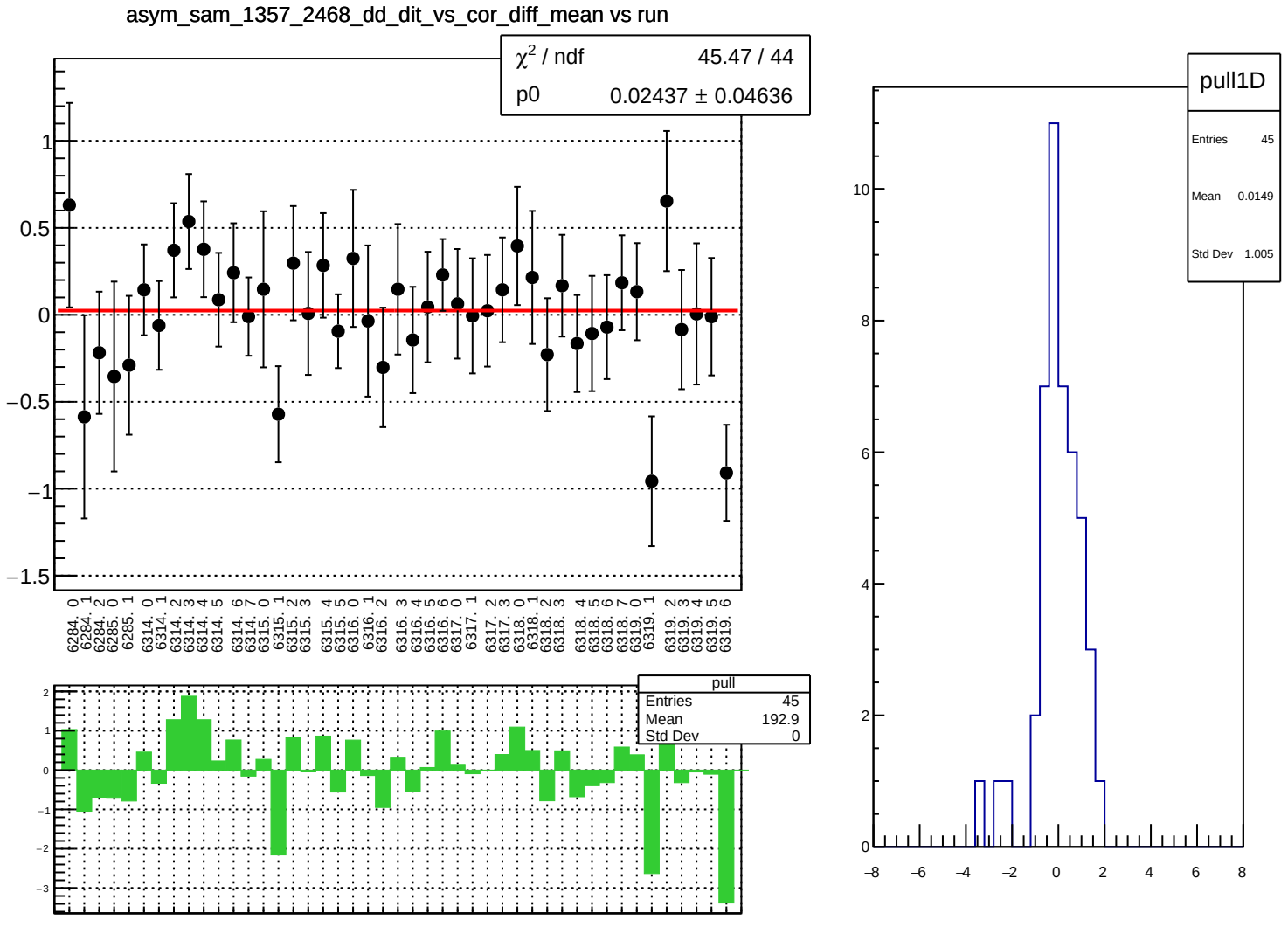
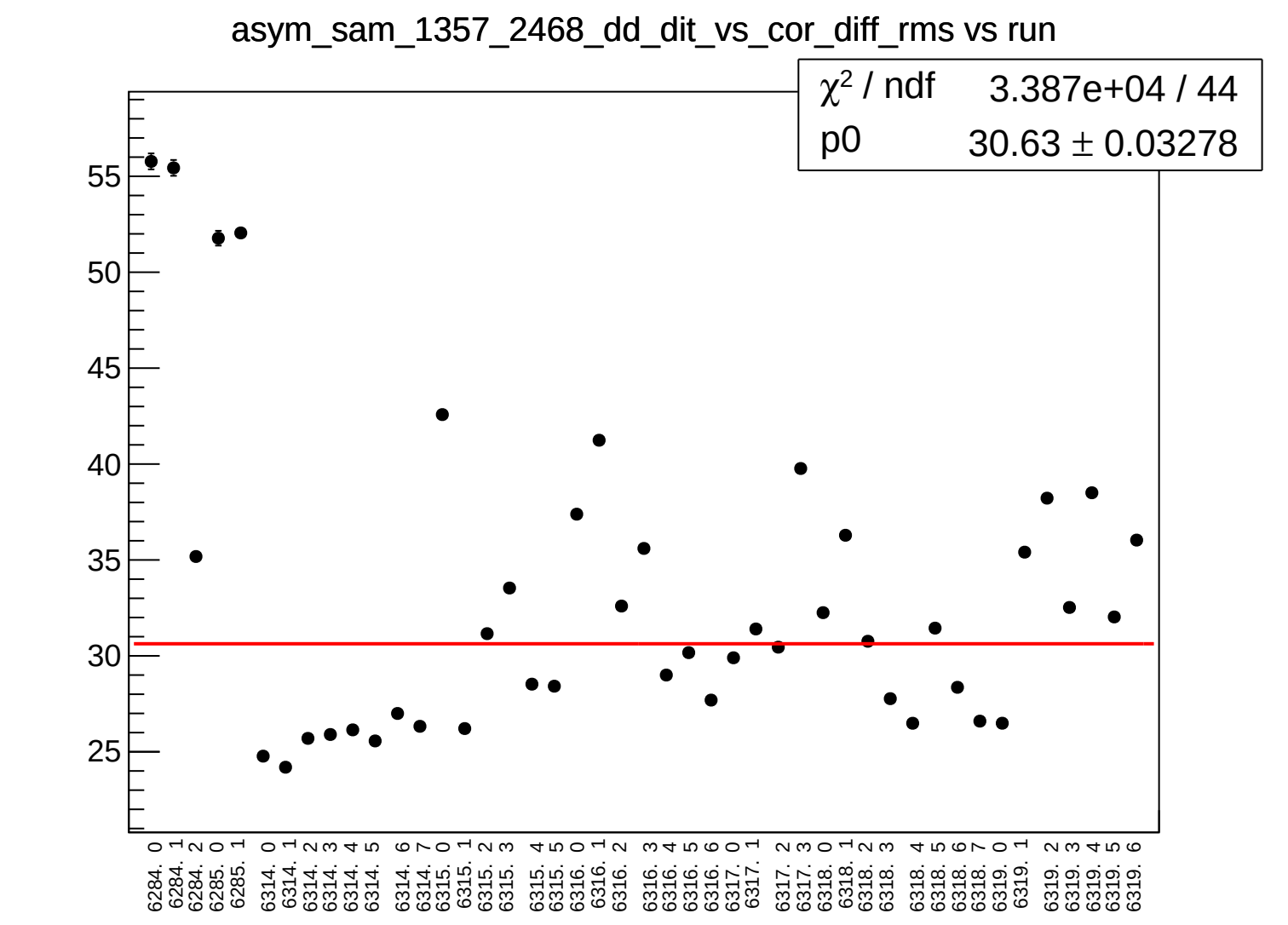
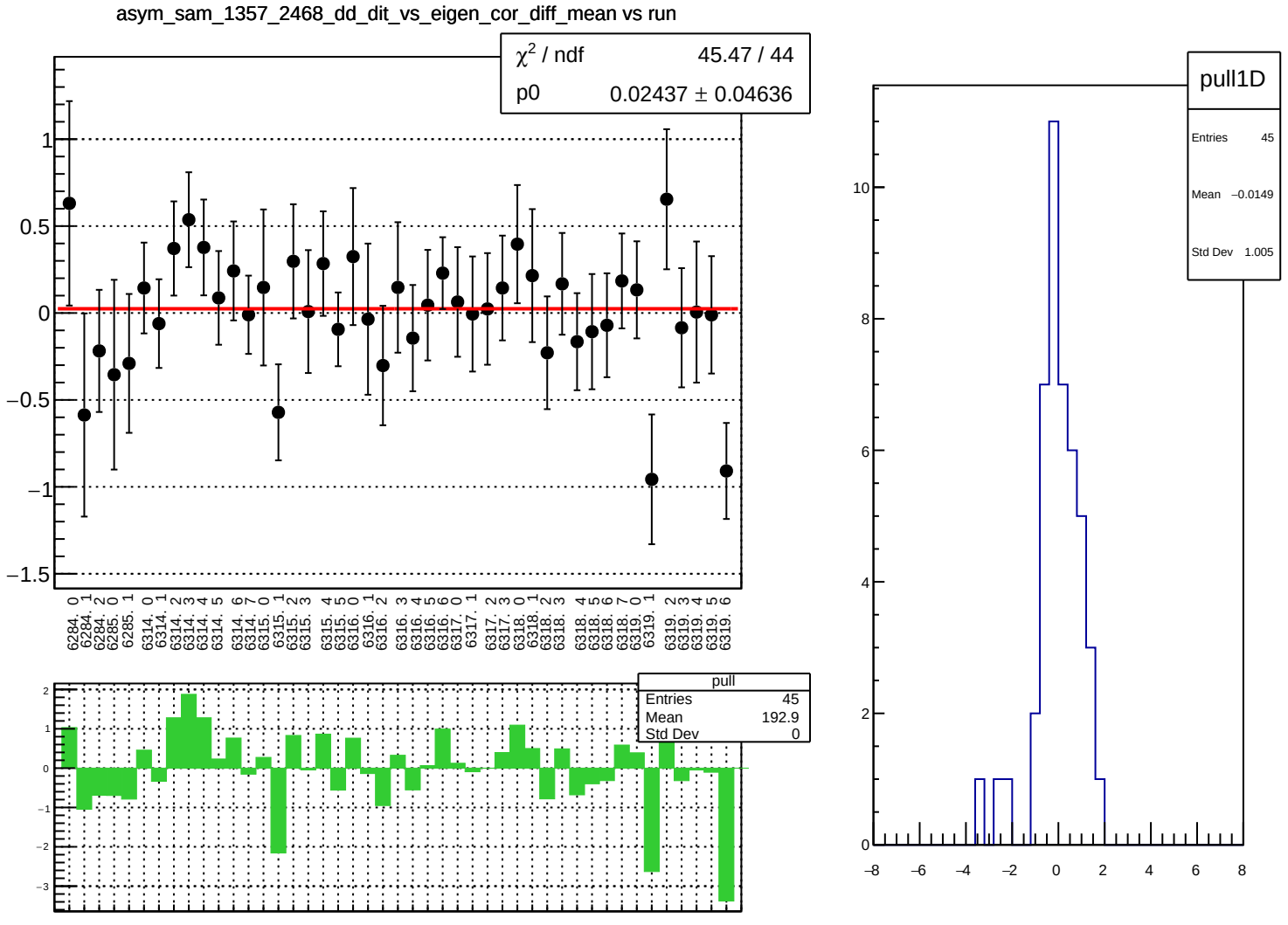
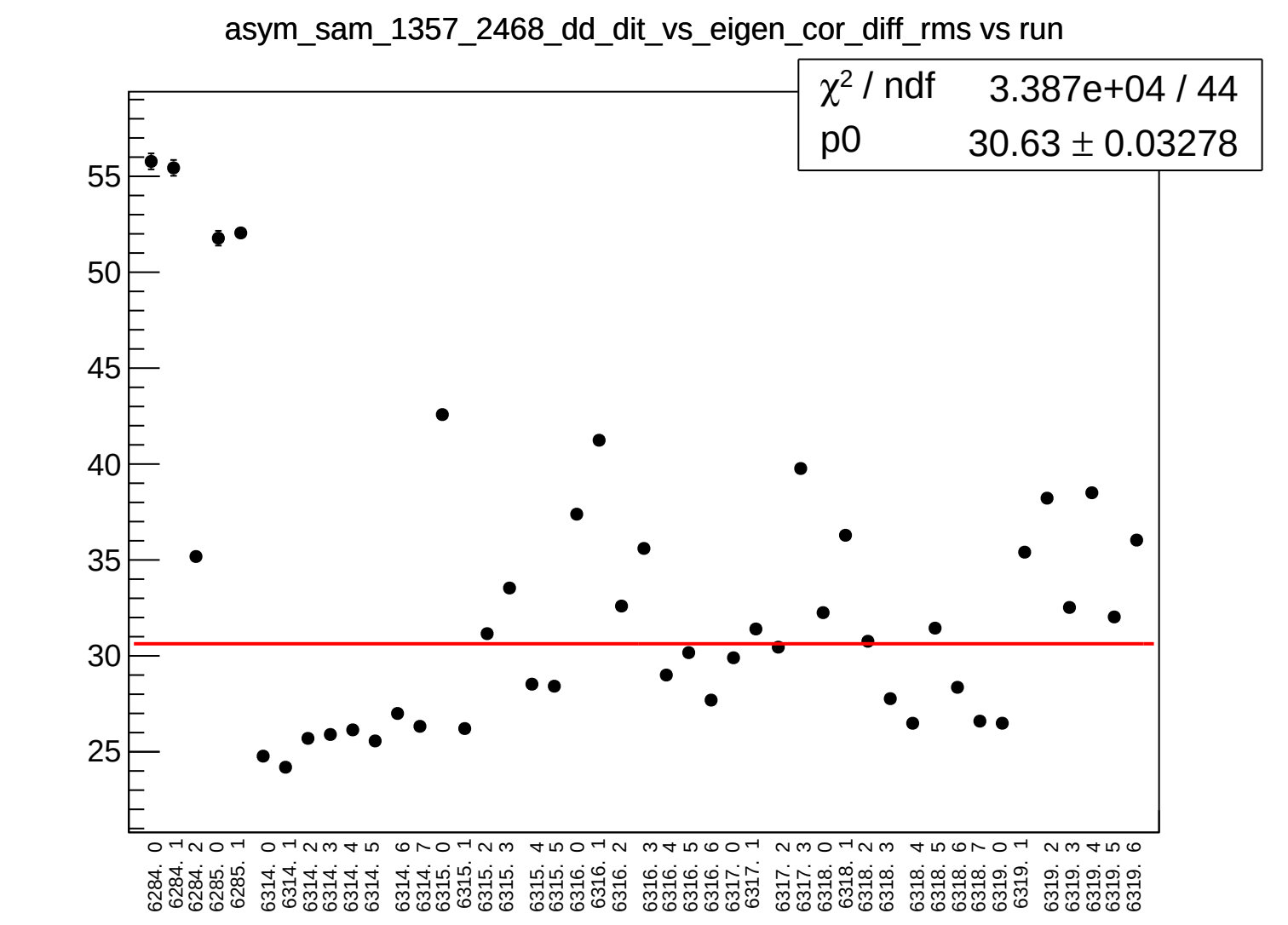
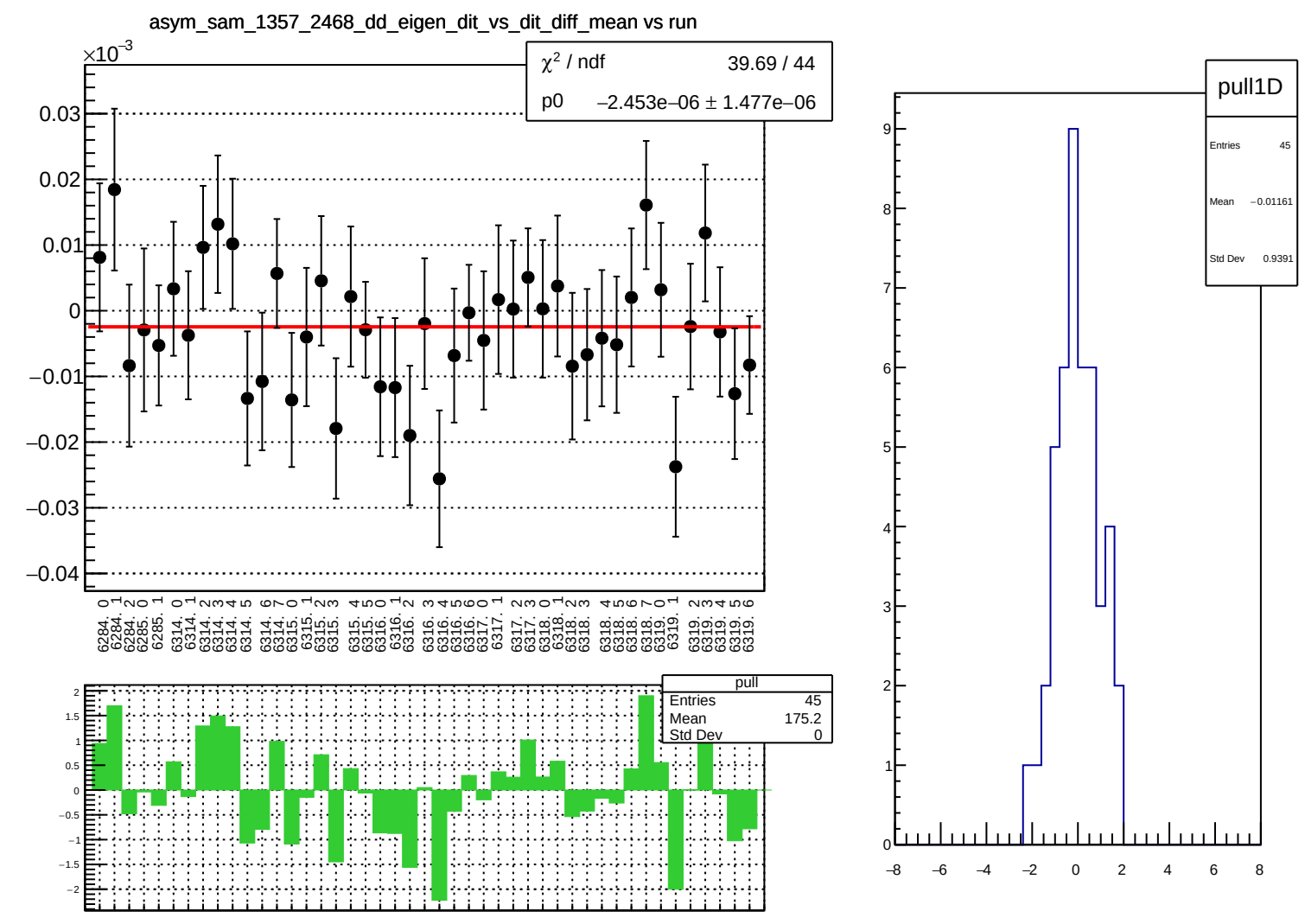
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

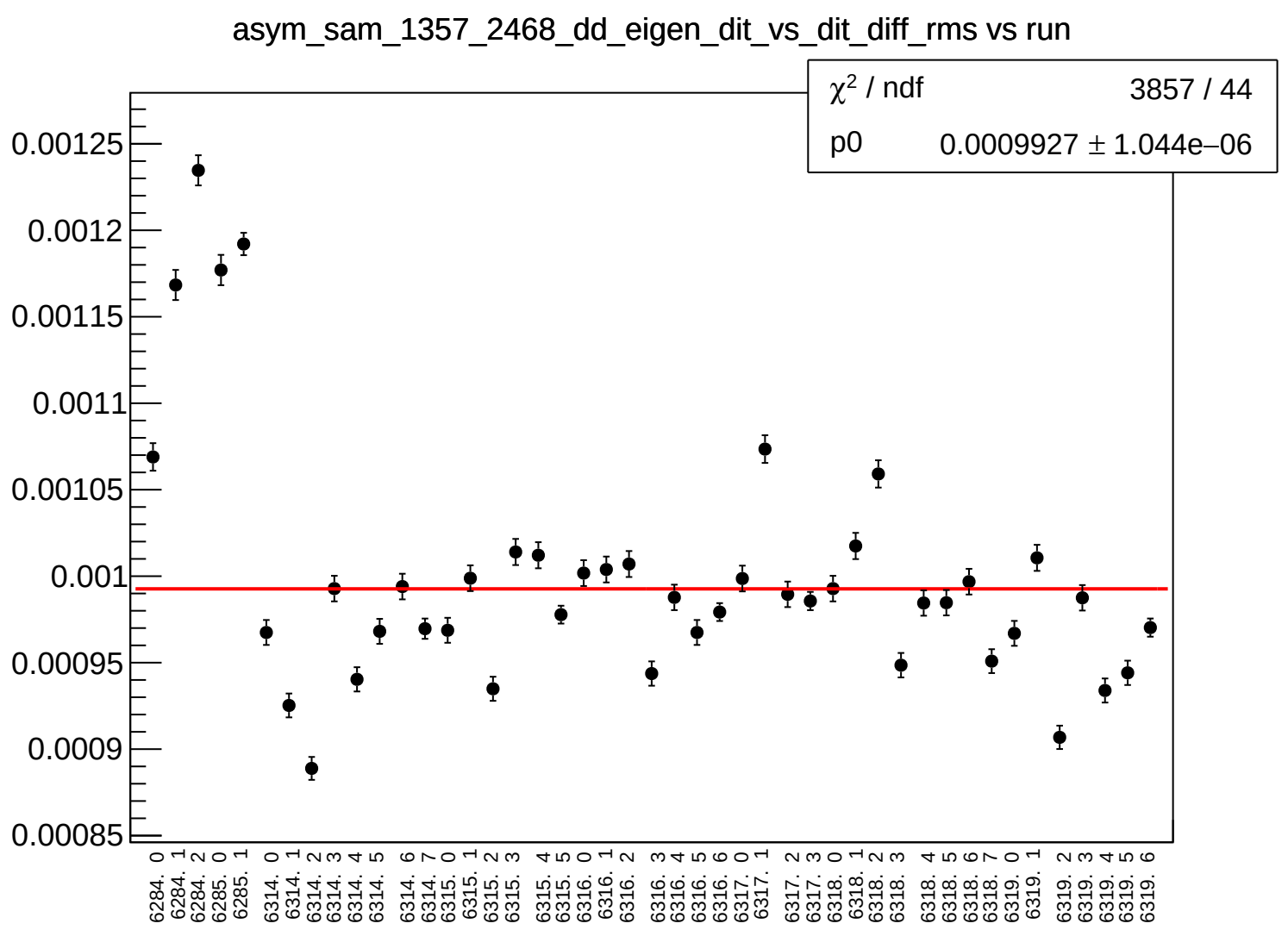

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.47 / 44
p0 0.02437 ± 0.04636
pull
Entries 45
Mean 192.9
Std Dev 0
pull1D
Entries 45
Mean −0.0149
Std Dev 1.005


asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.387e+04 / 44
p0 30.63 ± 0.03278
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.47 / 44
p0 0.02437 ± 0.04636
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 192.9
Std Dev 0
pull1D
Entries 45
Mean −0.0149
Std Dev 1.005


asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.387e+04 / 44
p0 30.63 ± 0.03278
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.69 / 44
p0 −2.453e−06 ± 1.477e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 175.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01161
Std Dev 0.9391
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3857 / 44
p0 0.0009927 ± 1.044e−06
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
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6315. 3
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6315. 5
6316. 0
6316. 1
6316. 2
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6316. 4
6316. 5
6316. 6
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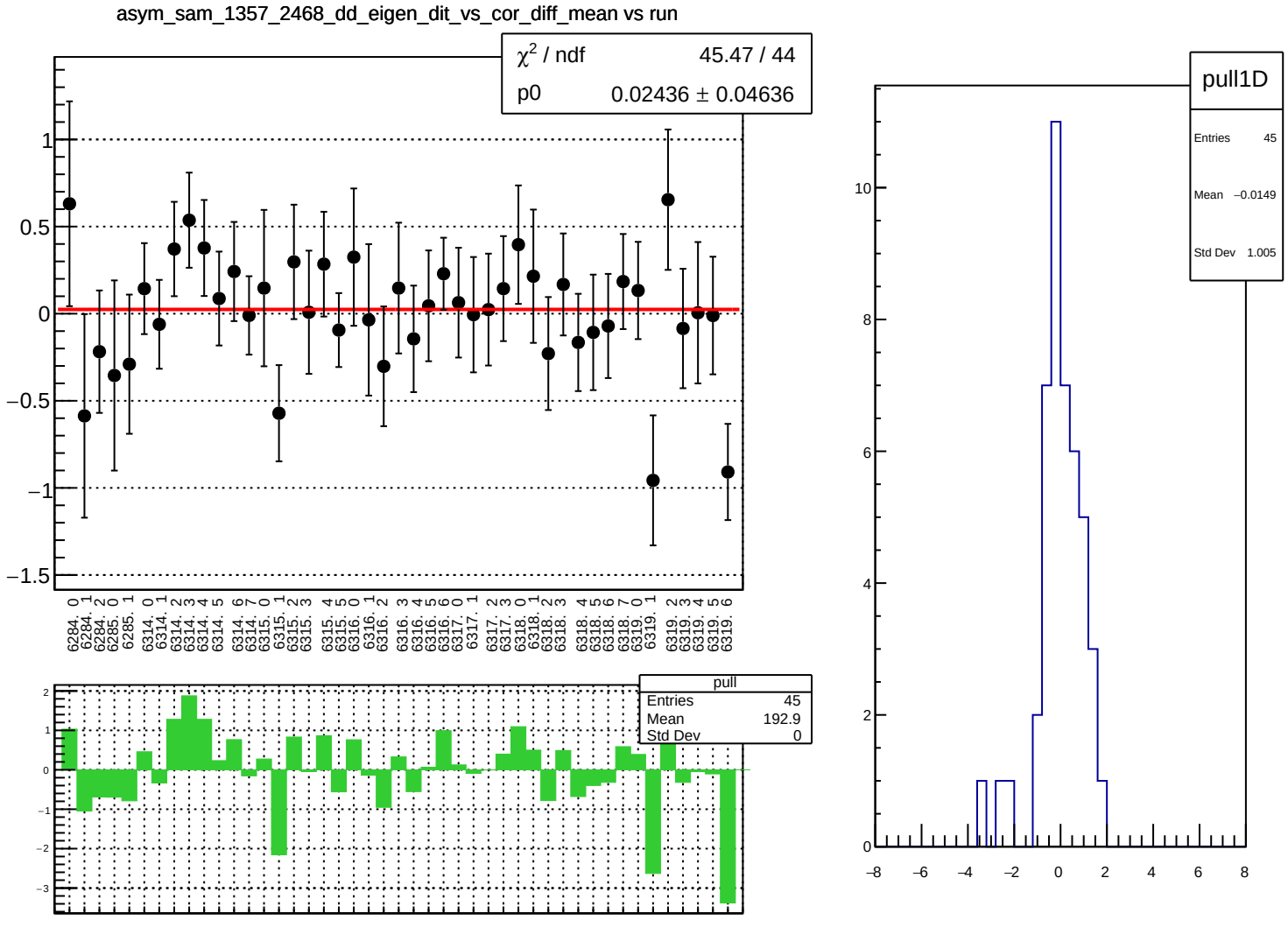
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.47 / 44
p0 0.02436 ± 0.04636
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 0
6316. 1
6316. 2
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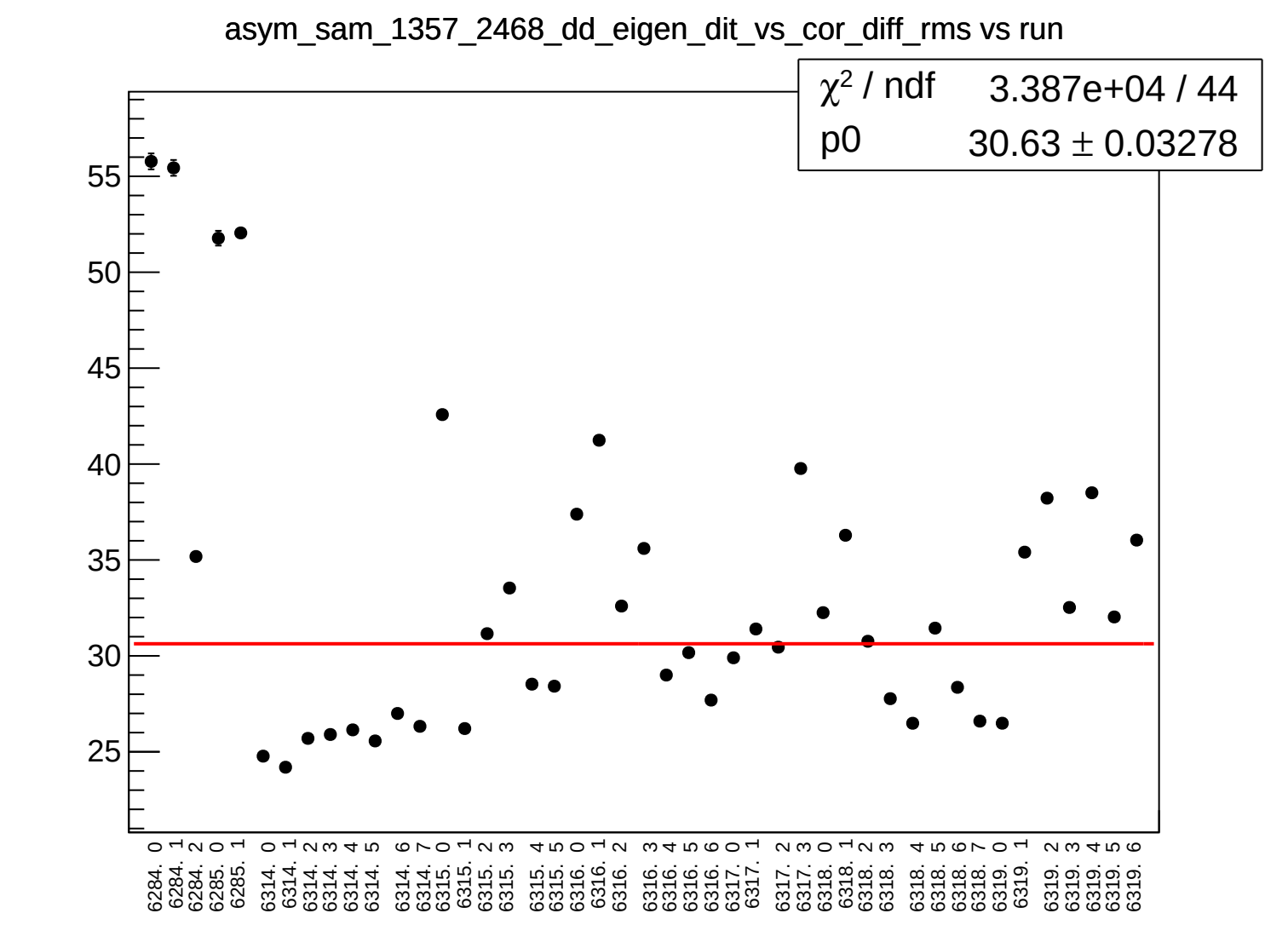
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 192.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.0149
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.387e+04 / 44
p0 30.63 ± 0.03278
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
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6314. 7
6315. 0
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6316. 2
6316. 3
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6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 7
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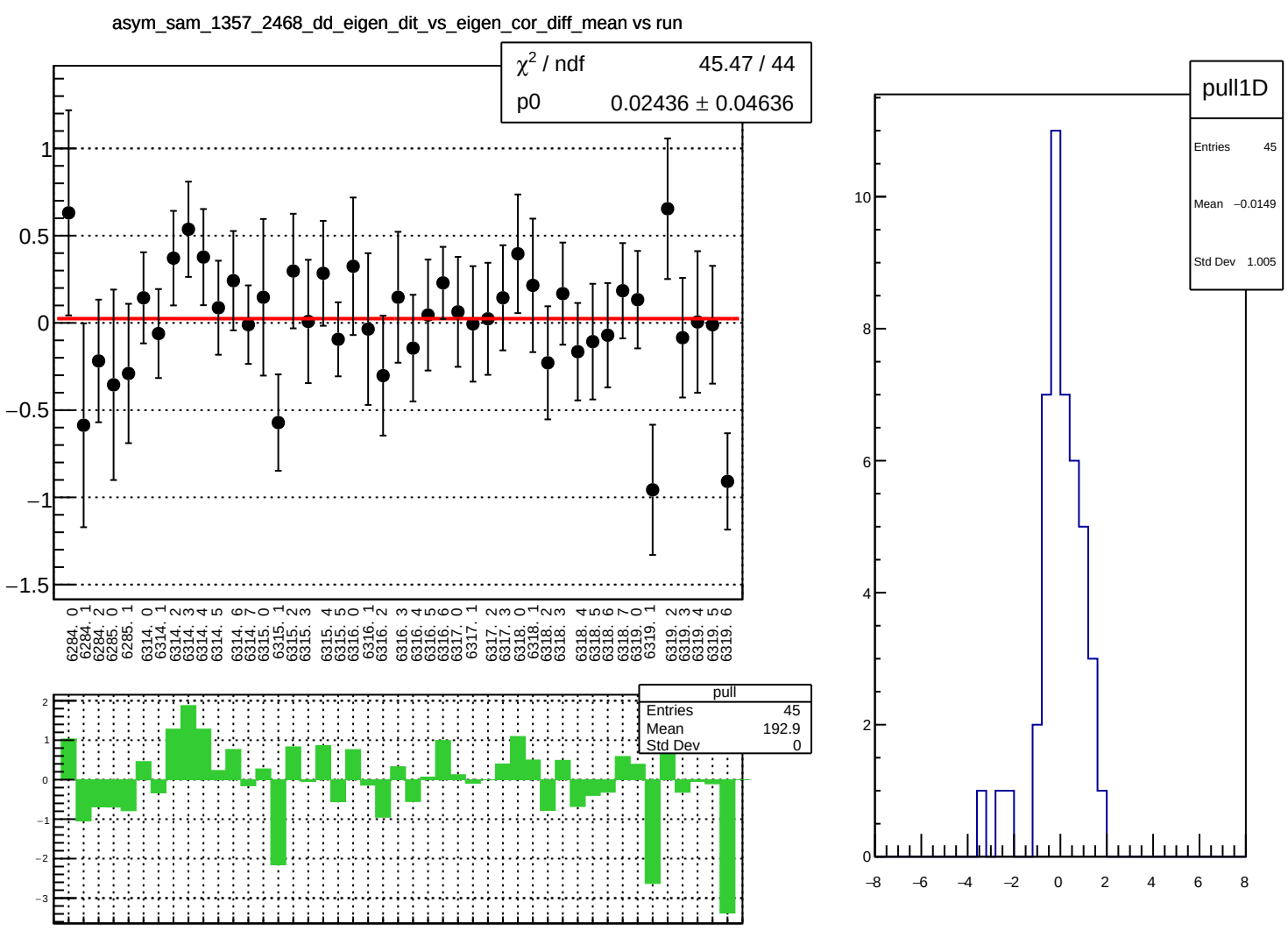
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.47 / 44
p0 0.02436 ± 0.04636
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
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6314. 6
6314. 7
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6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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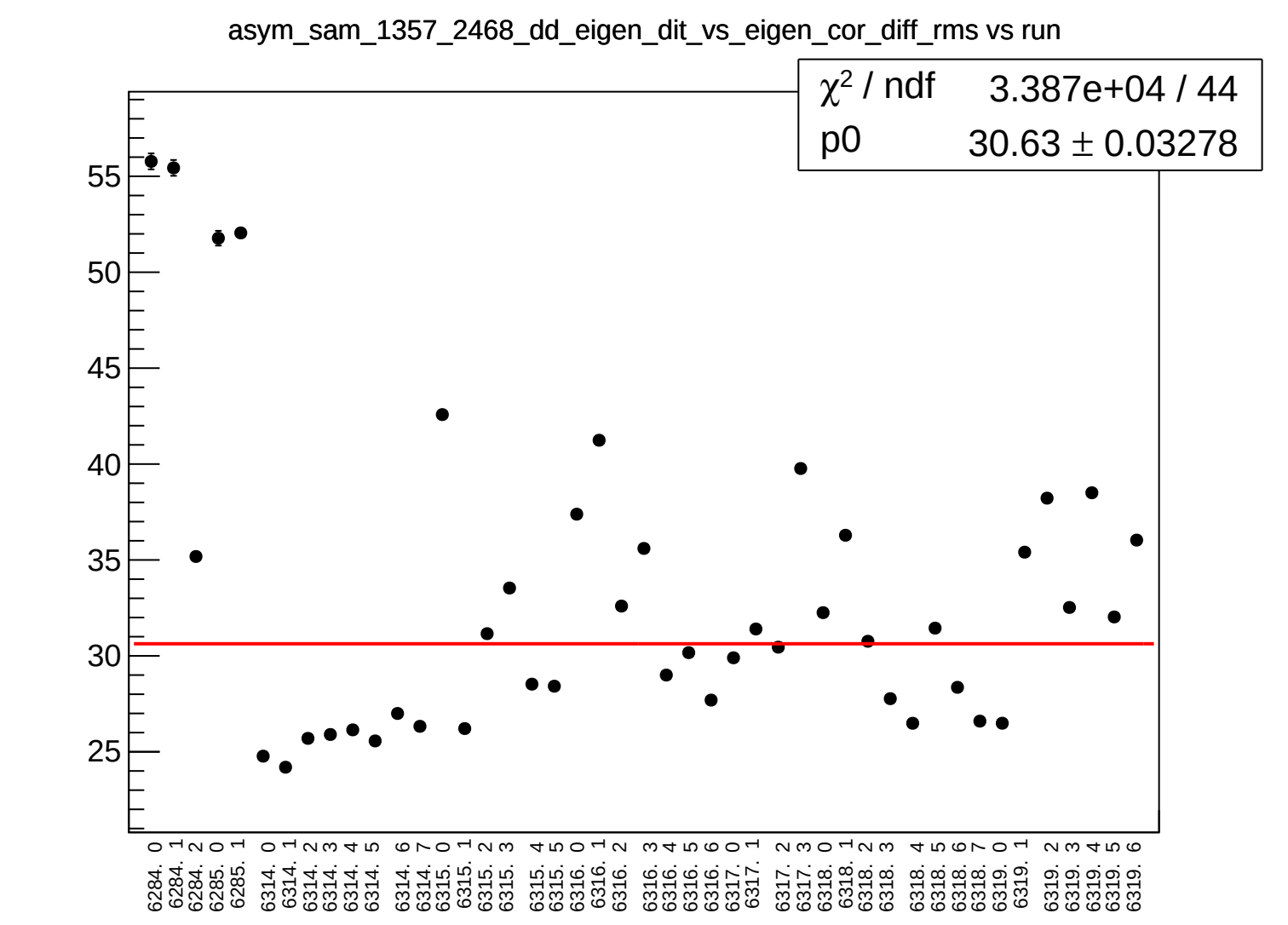
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 192.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.0149
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.387e+04 / 44
p0 30.63 ± 0.03278
55
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
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6316. 0
6316. 1
6316. 2
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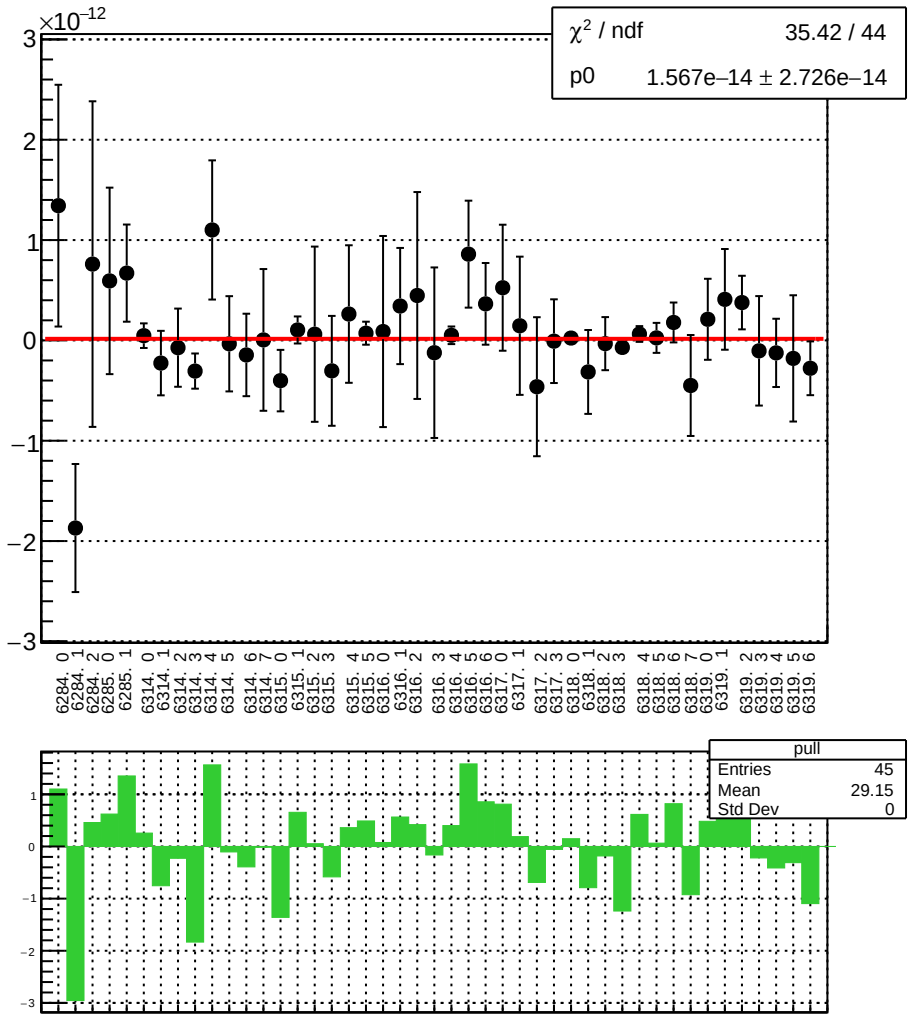
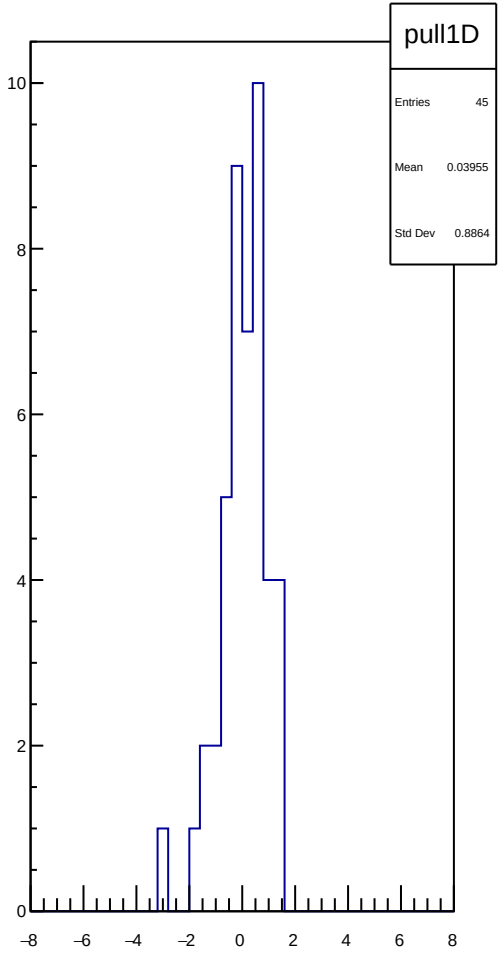
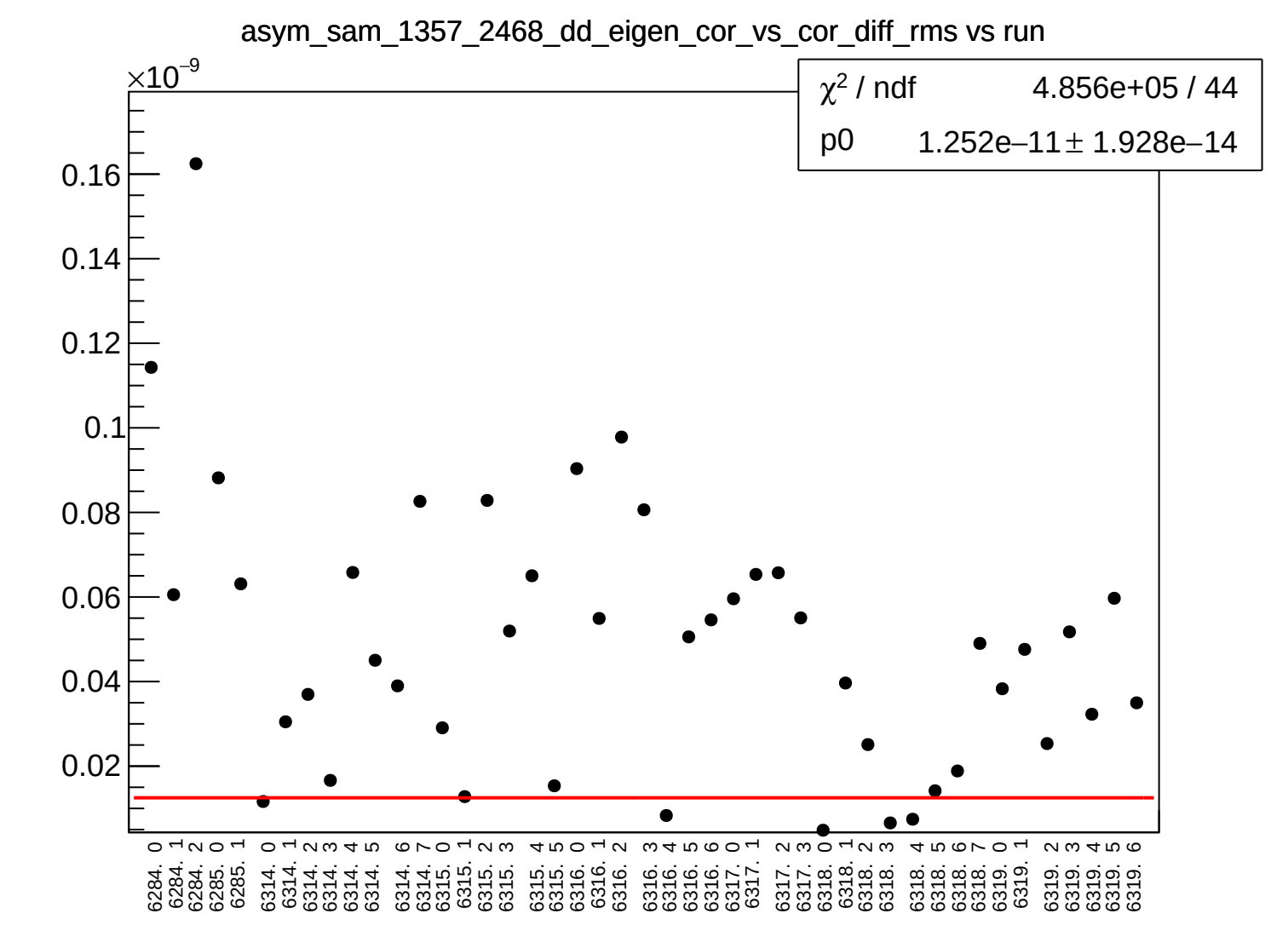
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.42 / 44
p0 1.567e−14 ± 2.726e−14
pull
Entries 45
Mean 29.15
Std Dev 0


pull1D
Entries 45
Mean 0.03955
Std Dev 0.8864


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.856e+05 / 44
p0 1.252e−11 ± 1.928e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
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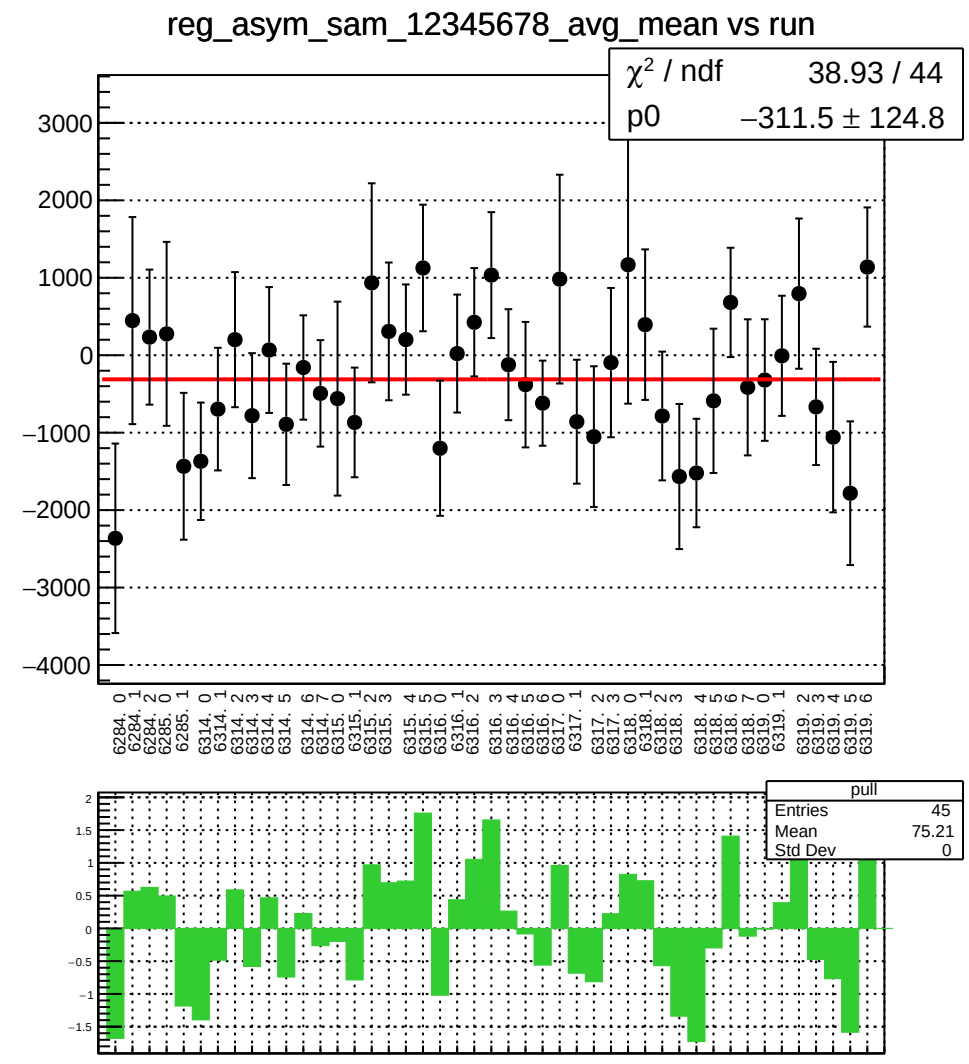
6319. 5
6319. 6


reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 38.93 / 44
p0 −311.5 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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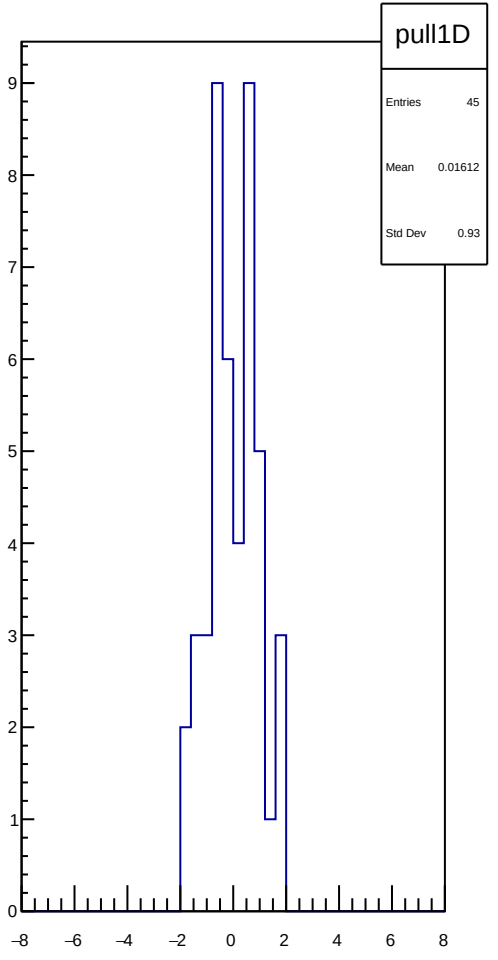
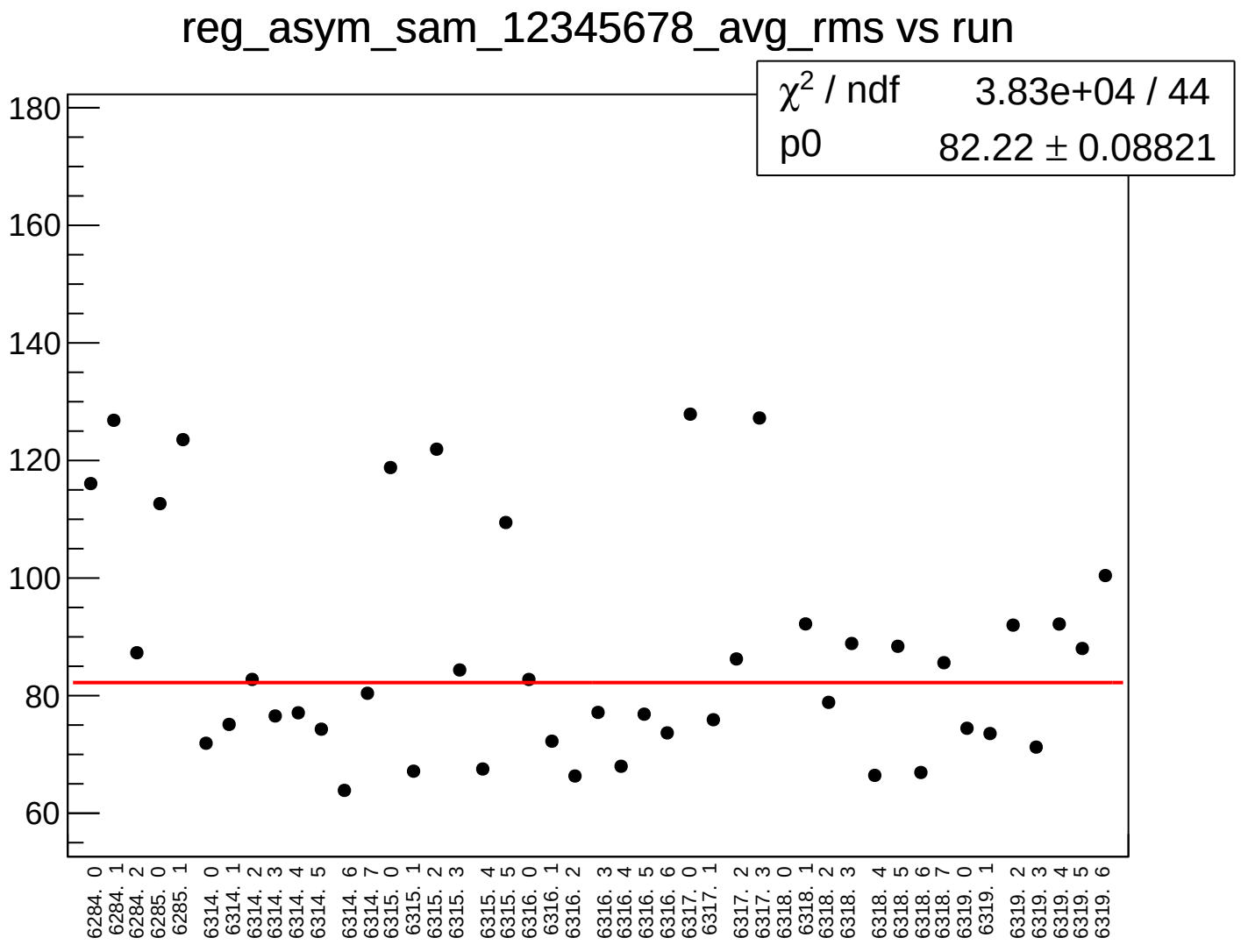
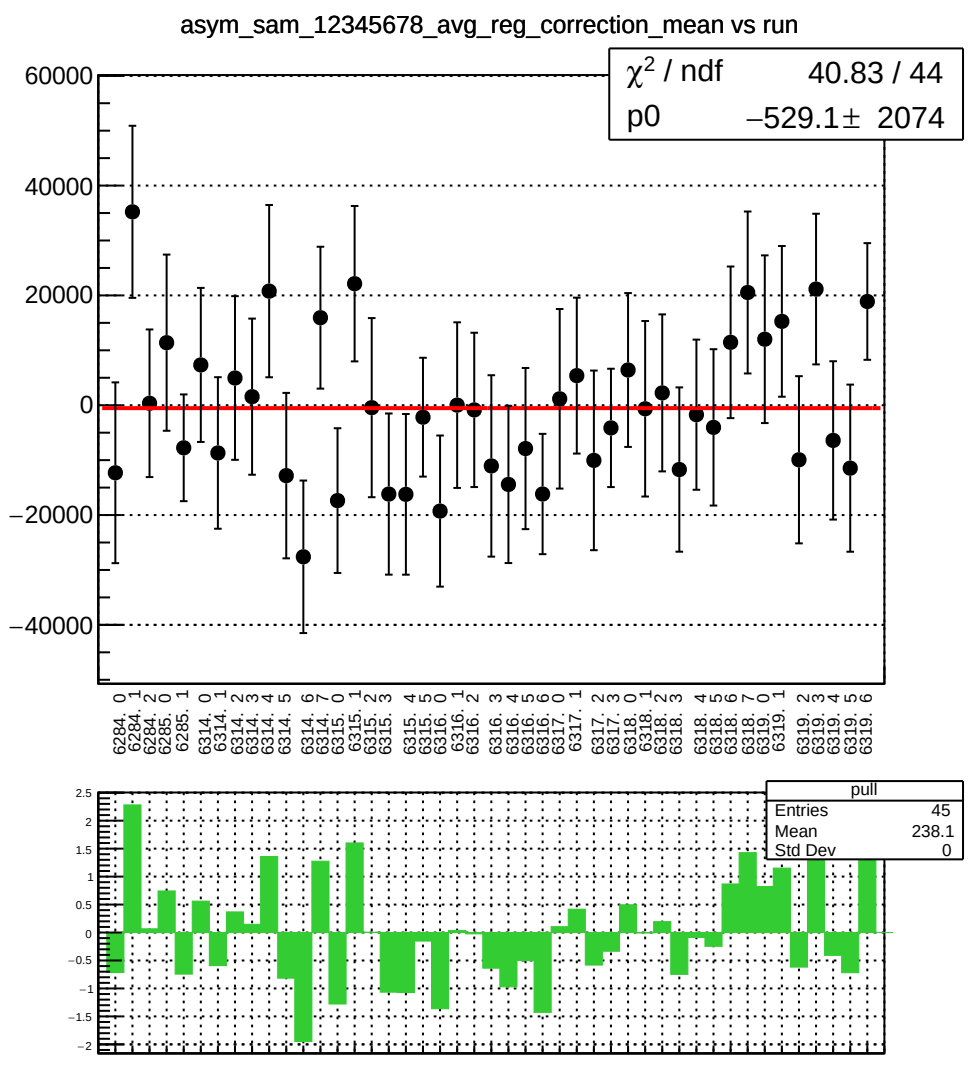
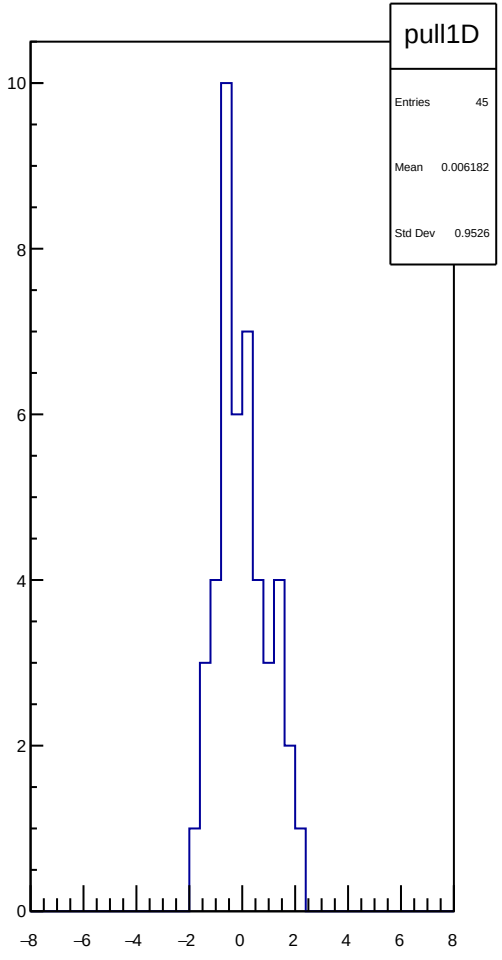
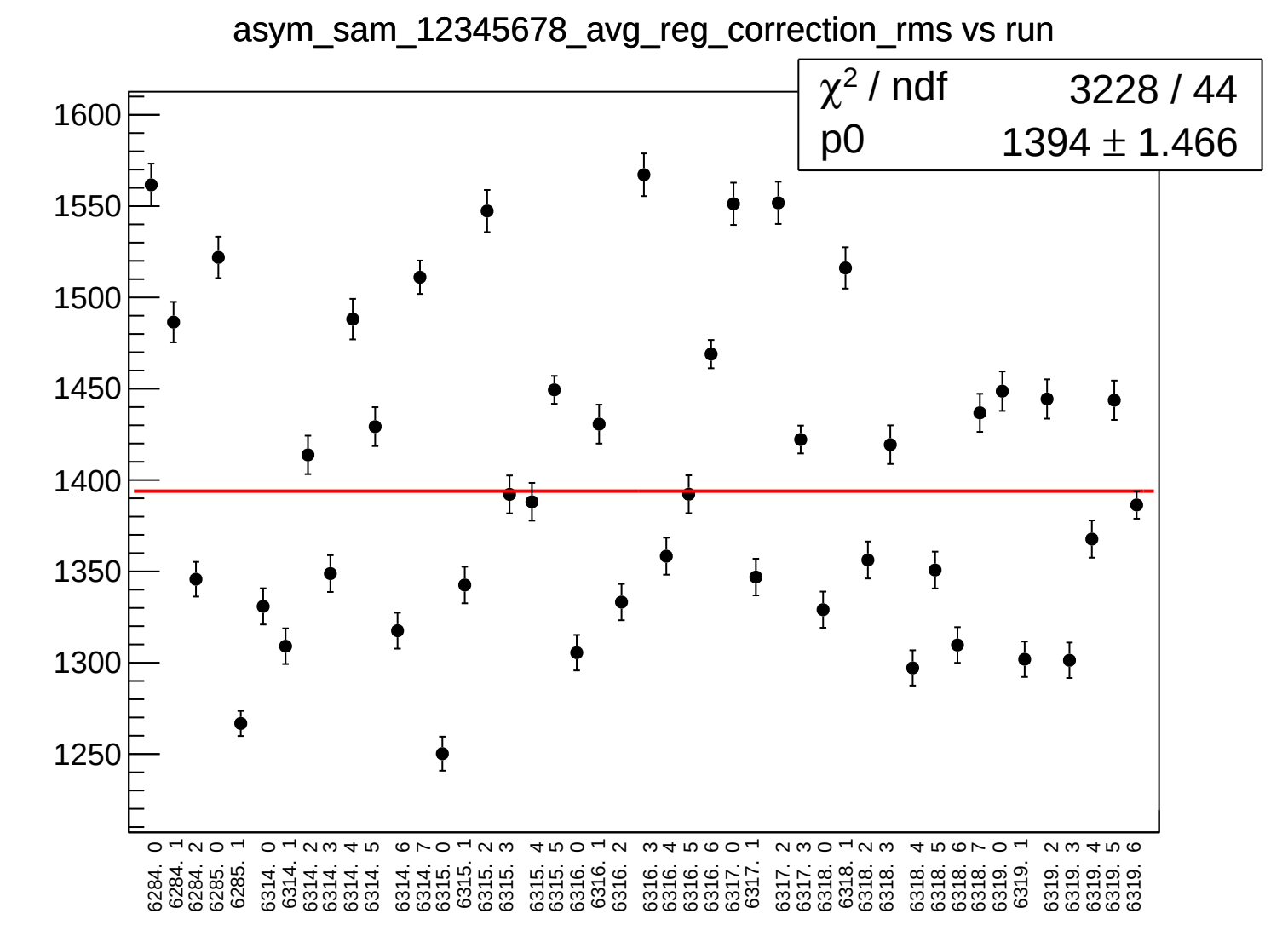
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

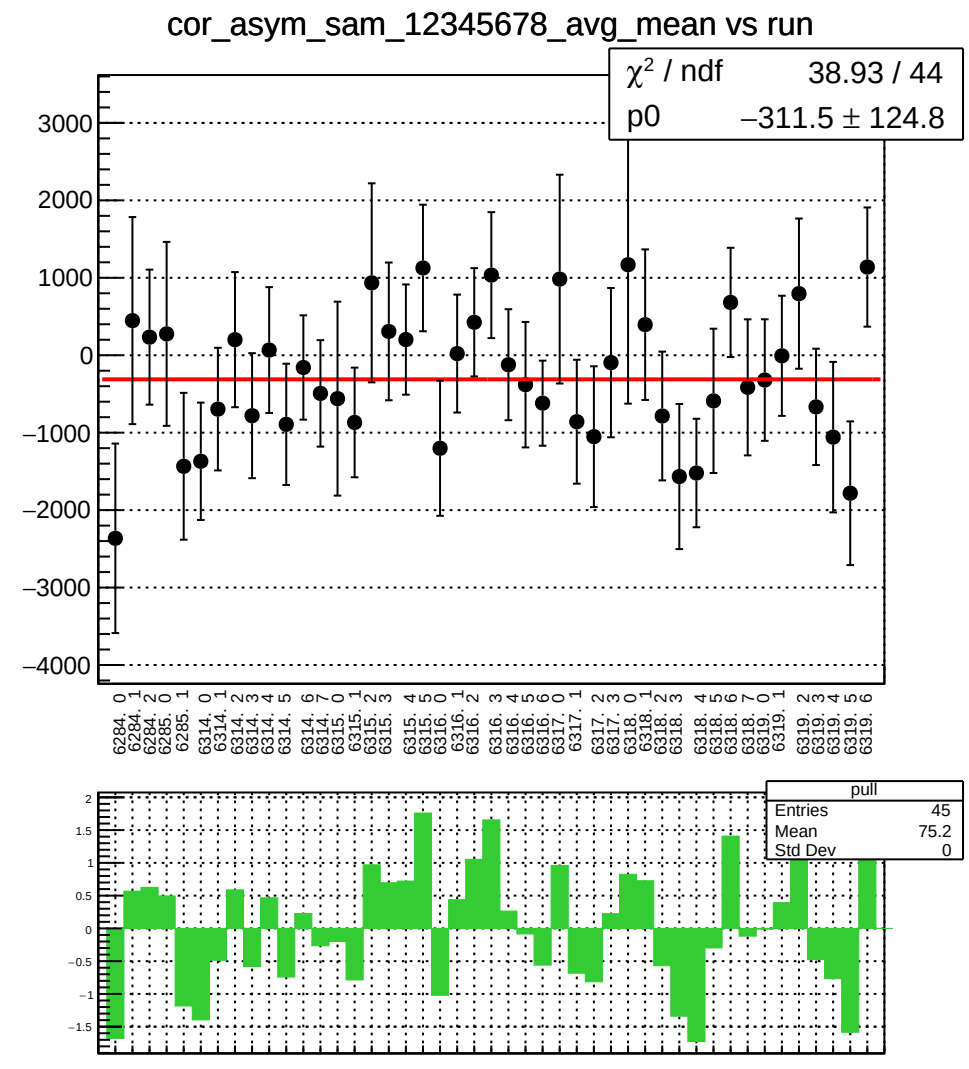

pull1D
Entries 45
Mean 0.01612
Std Dev 0.93
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

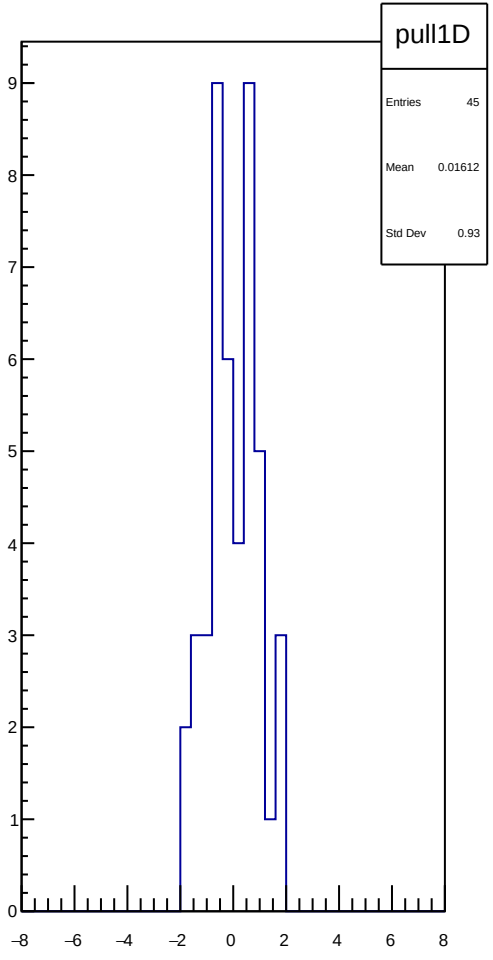

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.83e+04 / 44
p0 82.22 ± 0.08821
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

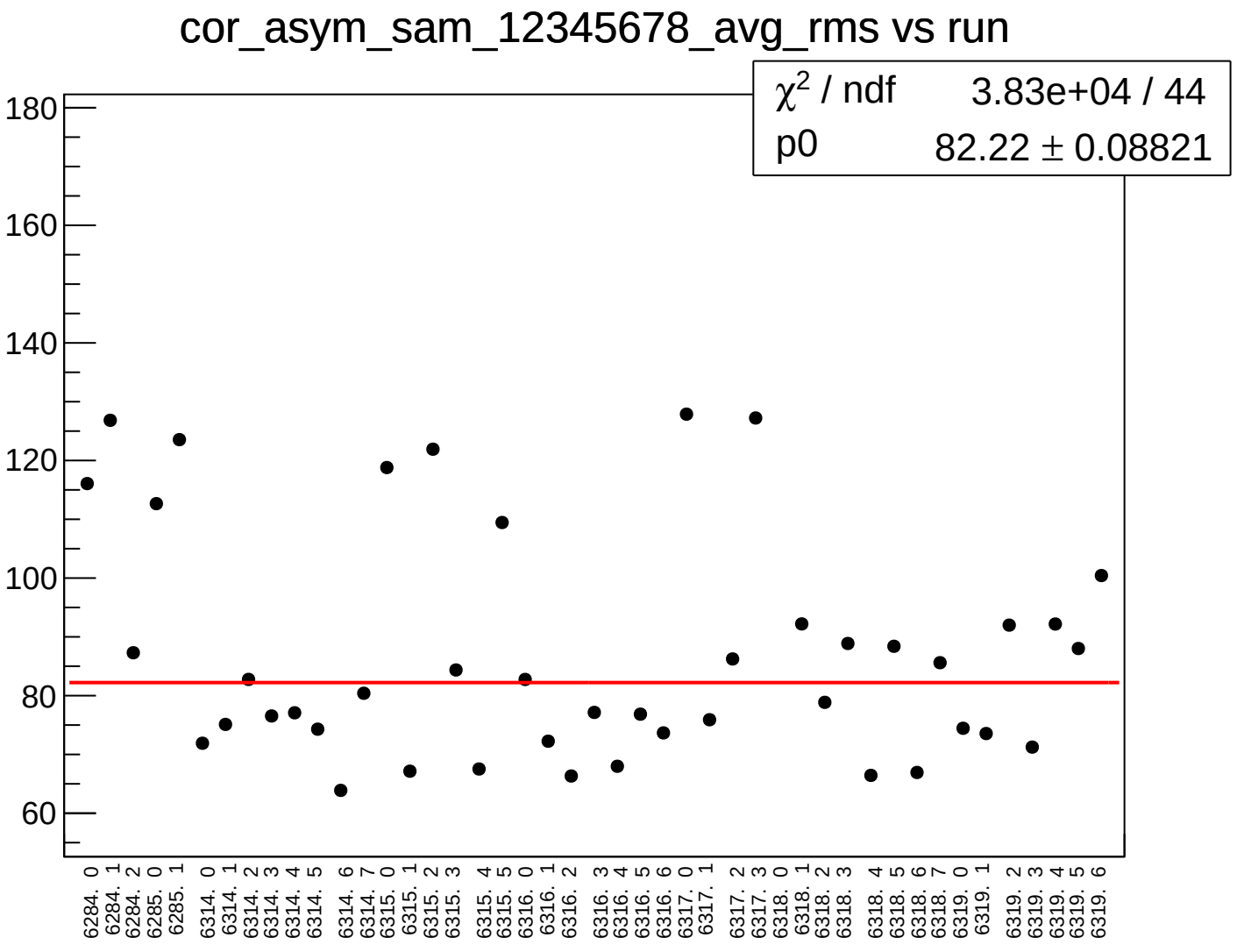

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 40.83 / 44
p0 −529.1± 2074
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 238.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.006182
Std Dev 0.9526
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3228 / 44
p0 1394 ± 1.466
1600
1550
1500
1450
1400
1350
1300
1250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 38.93 / 44
p0 −311.5 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01612
Std Dev 0.93
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.83e+04 / 44
p0 82.22 ± 0.08821
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
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6315. 4
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6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
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6318. 6
6318. 7
6319. 0
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6319. 2
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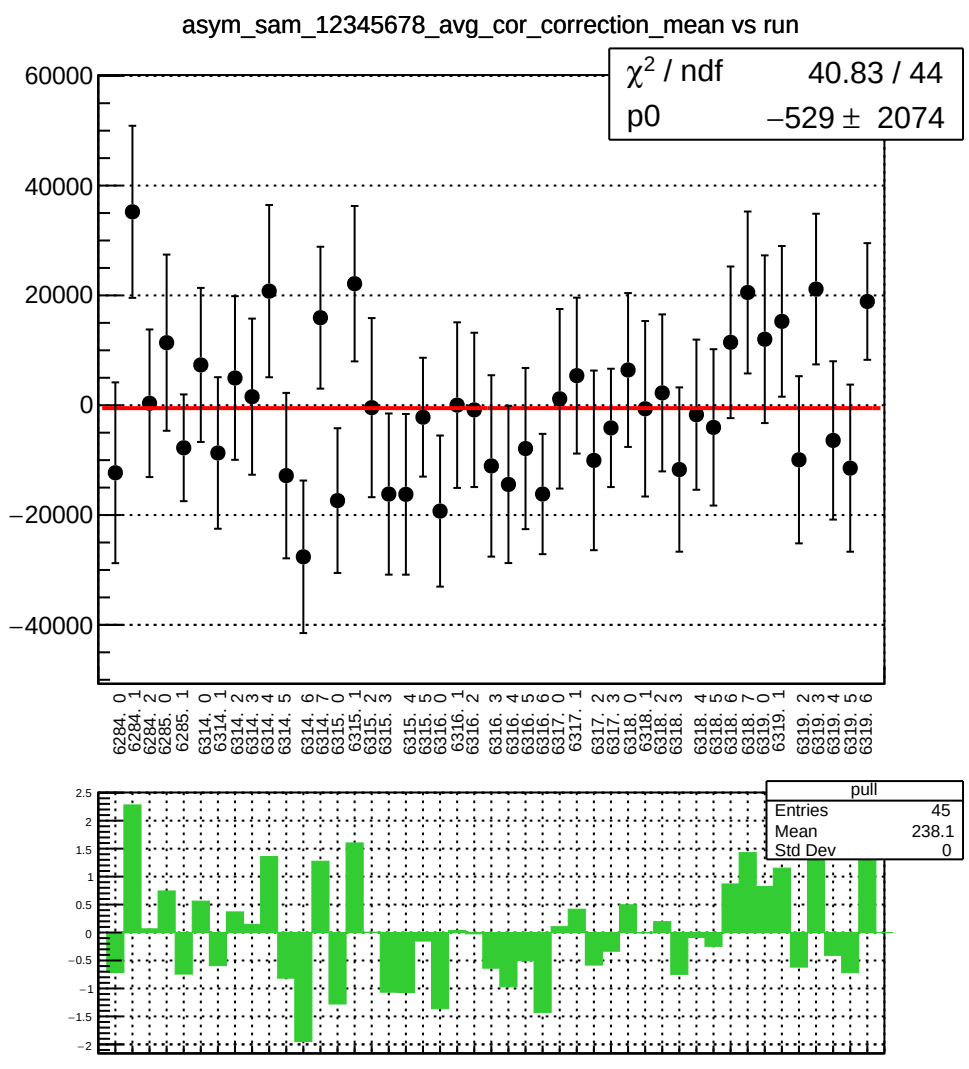
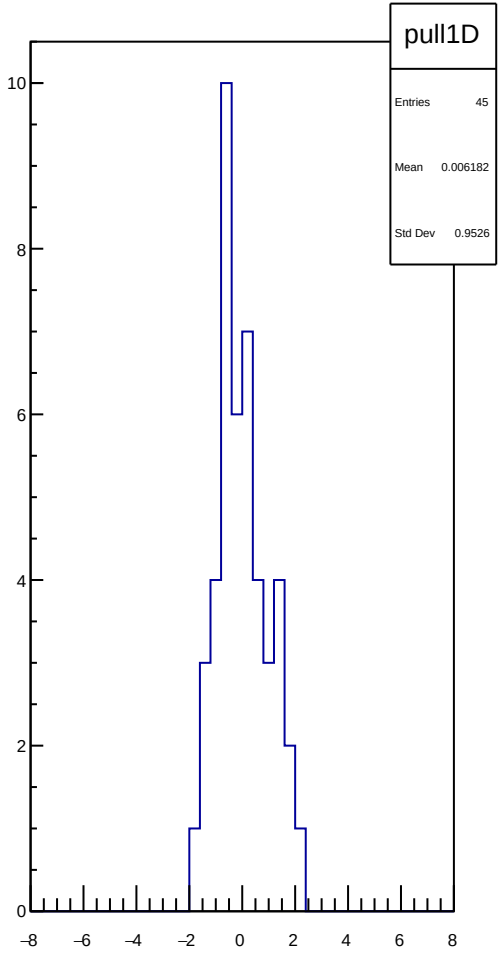
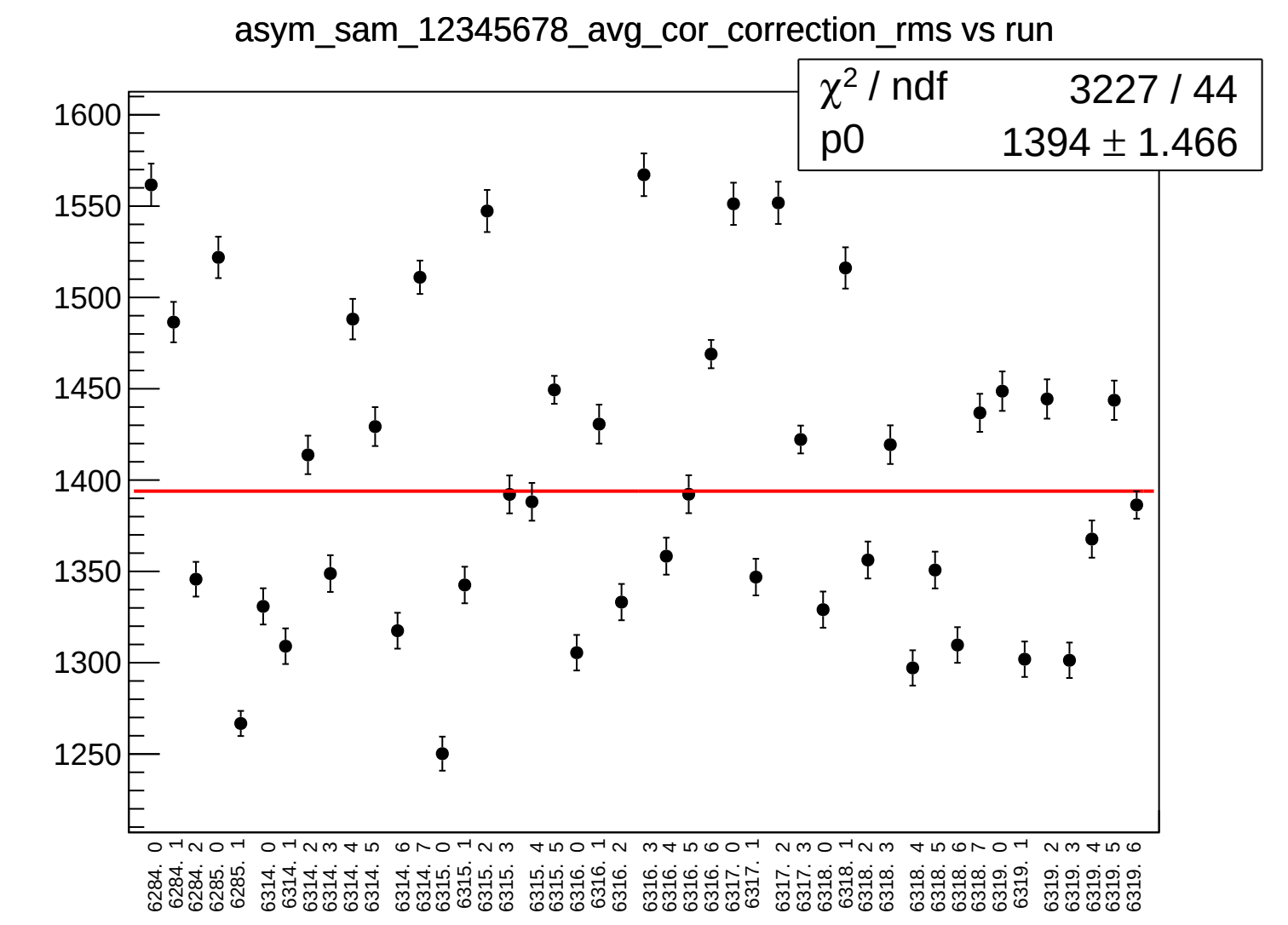
6319. 4
6319. 5
6319. 6


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 40.83 / 44
p0 −529 ± 2074
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 238.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.006182
Std Dev 0.9526
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3227 / 44
p0 1394 ± 1.466
1600
1550
1500
1450
1400
1350
1300
1250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
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6318. 7
6319. 0
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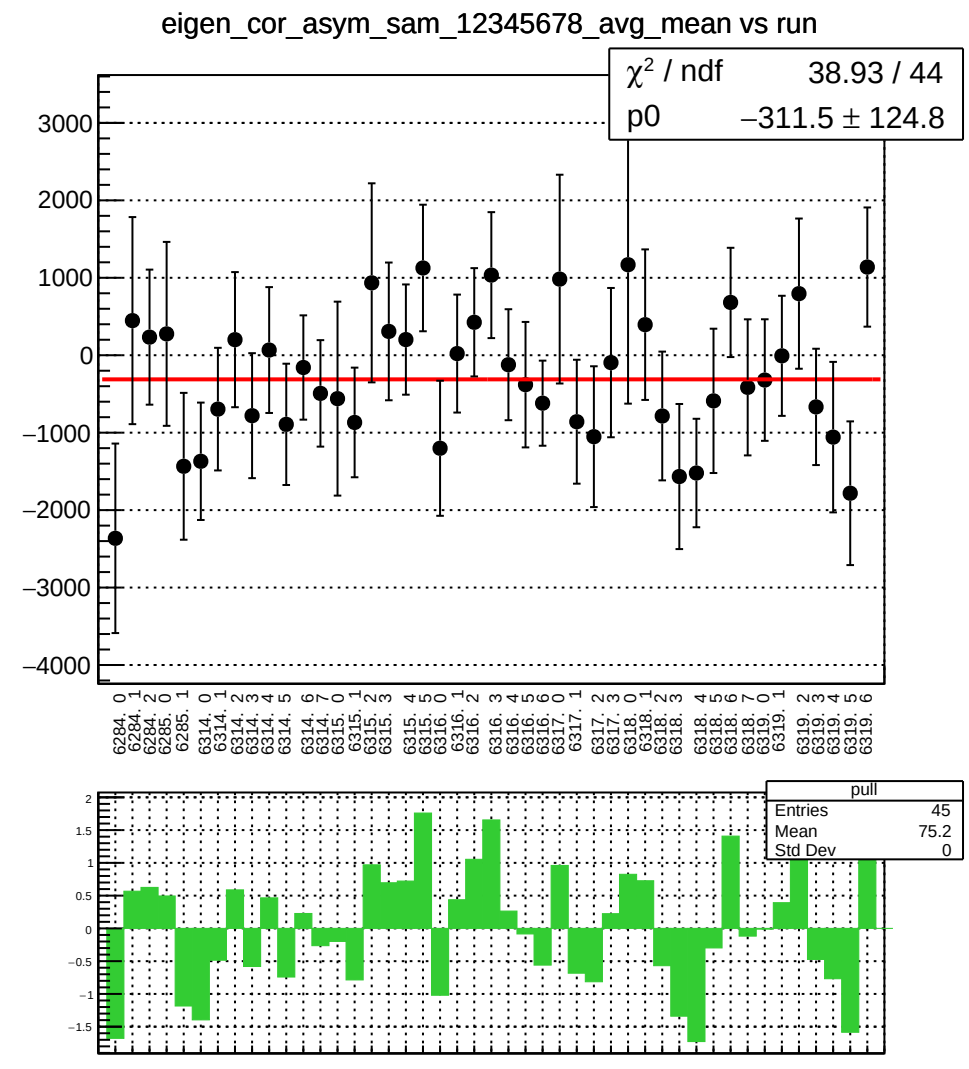
6319. 5
6319. 6


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 38.93 / 44
p0 −311.5 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
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6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
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6318. 0
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6318. 2
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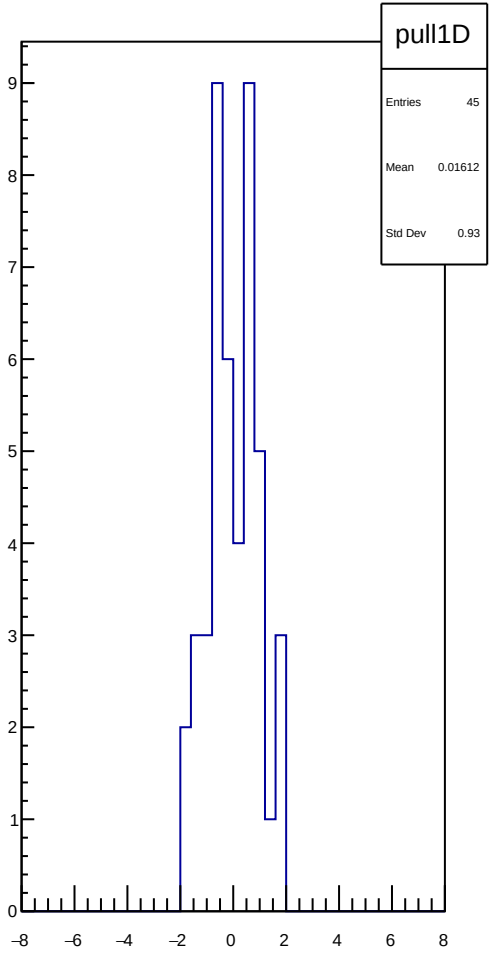
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 75.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01612
Std Dev 0.93
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2
1
0
−8
−6
−4
−2
0
2
4
6
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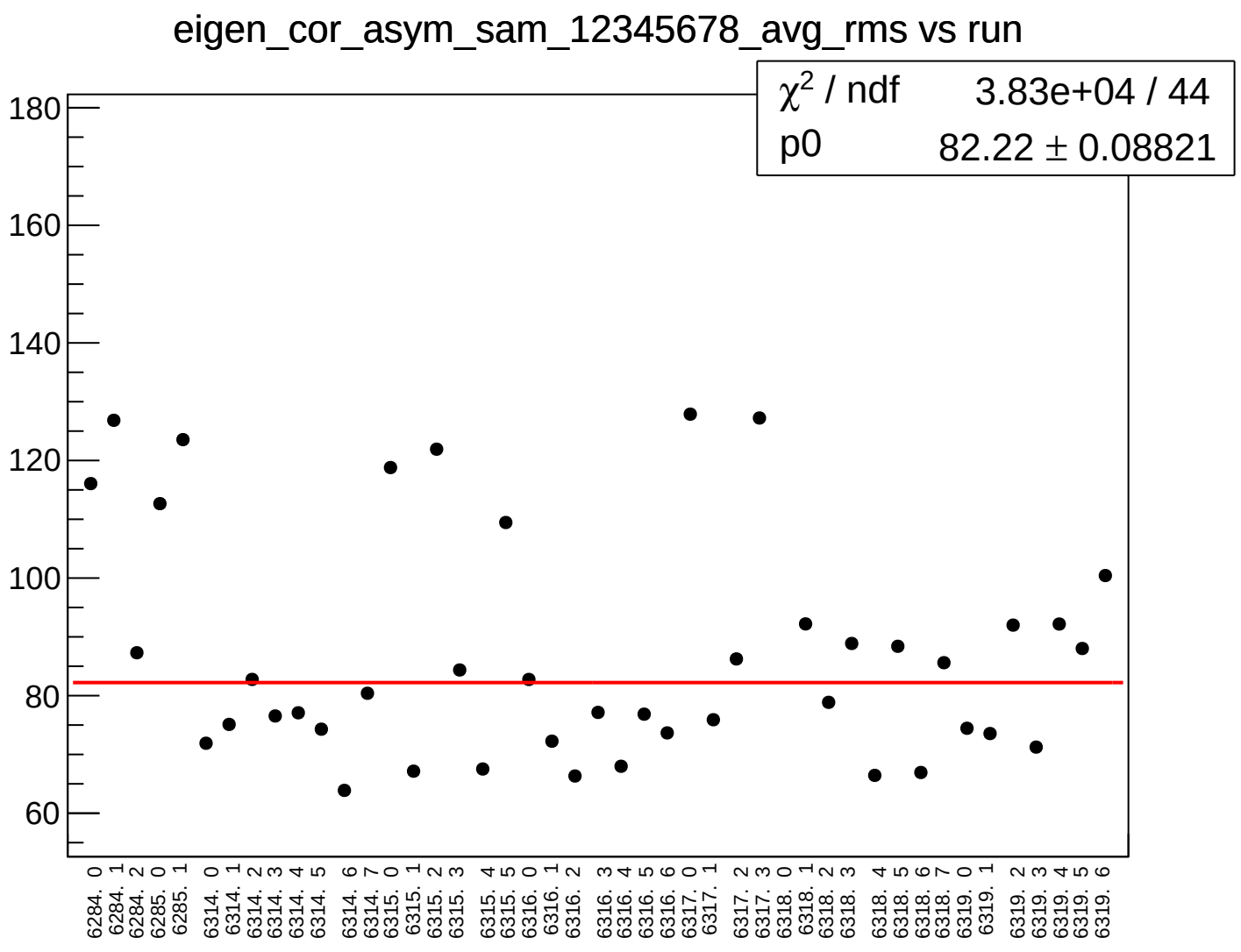
eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.83e+04 / 44
p0 82.22 ± 0.08821
180
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
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6317. 1
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6317. 3
6318. 0
6318. 1
6318. 2
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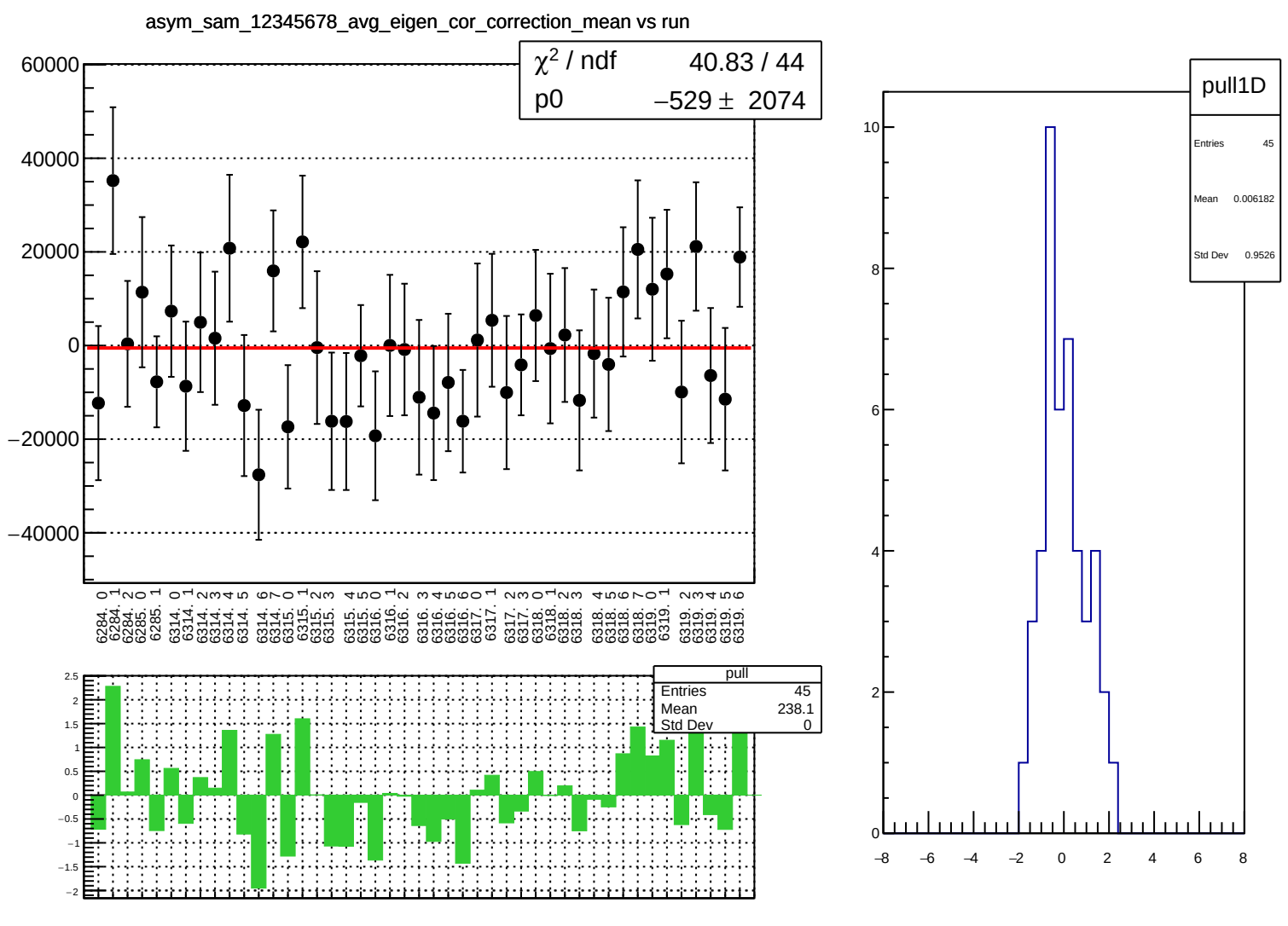
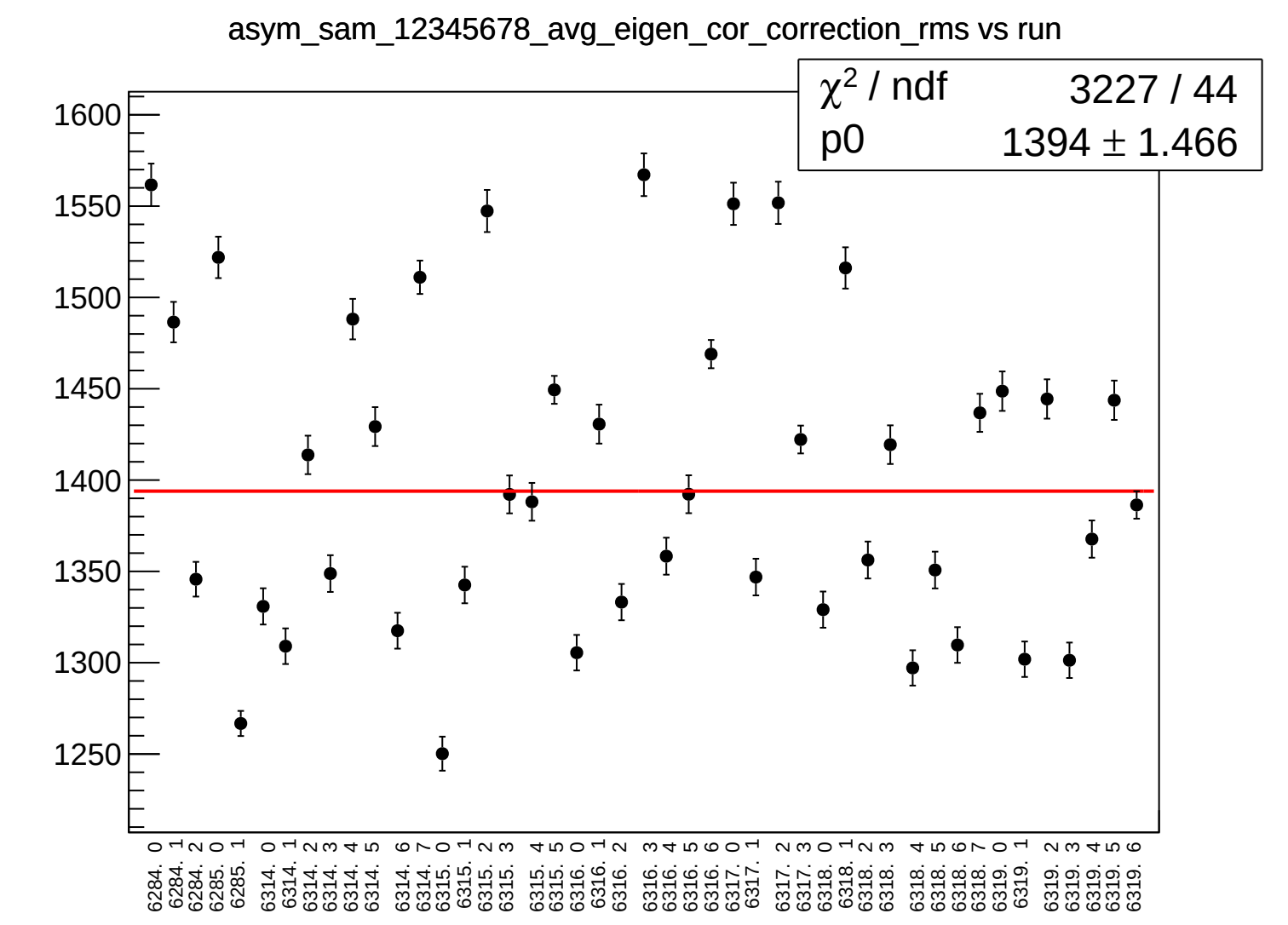
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.83 / 44
p0 −529 ± 2074
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 238.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006182
Std Dev 0.9526
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3227 / 44
p0 1394 ± 1.466
1600
1550
1500
1450
1400
1350
1300
1250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
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6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
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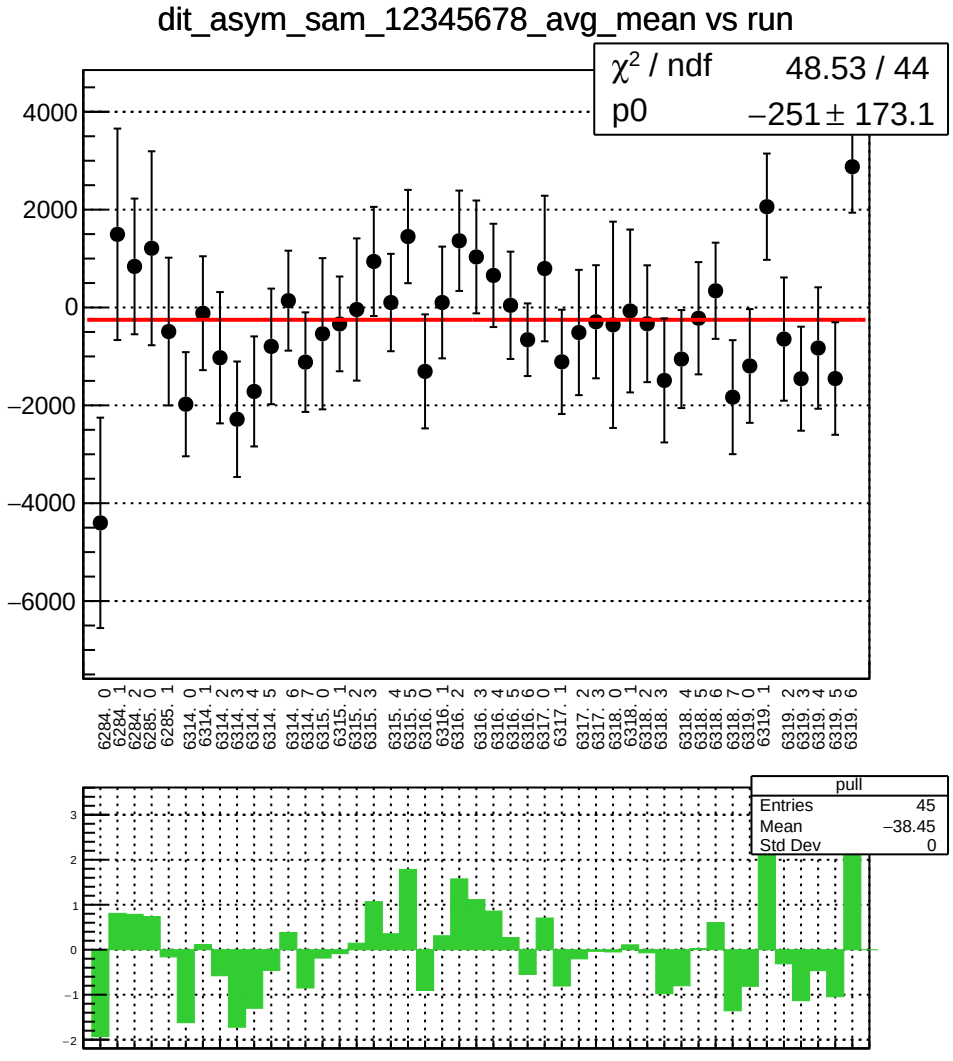
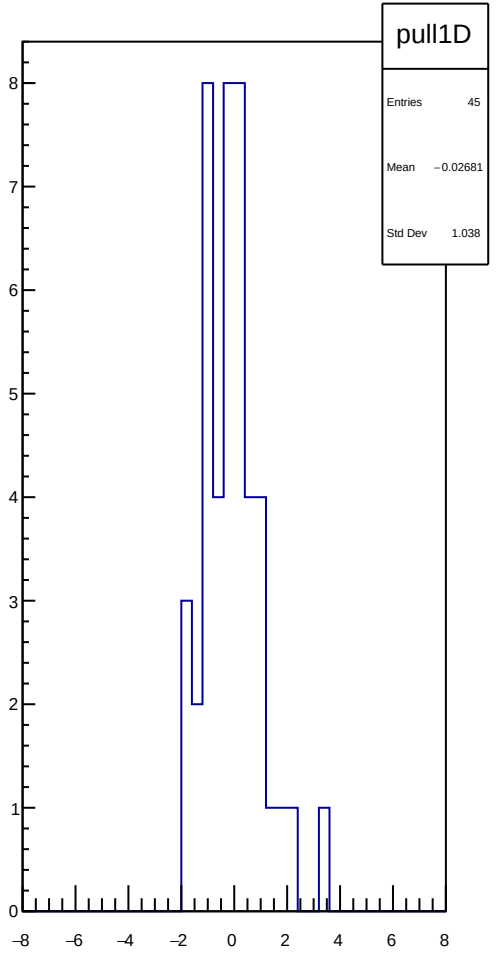
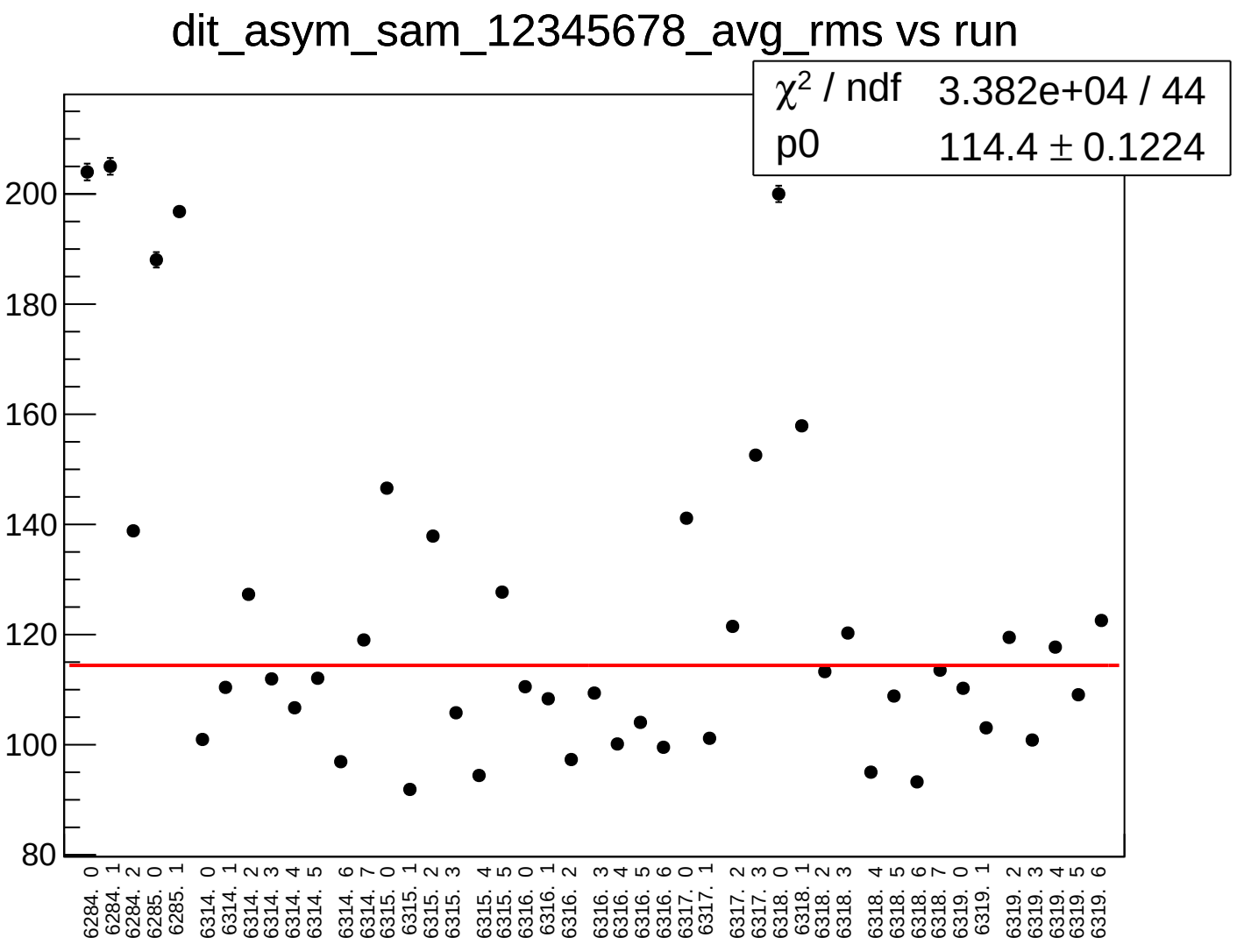
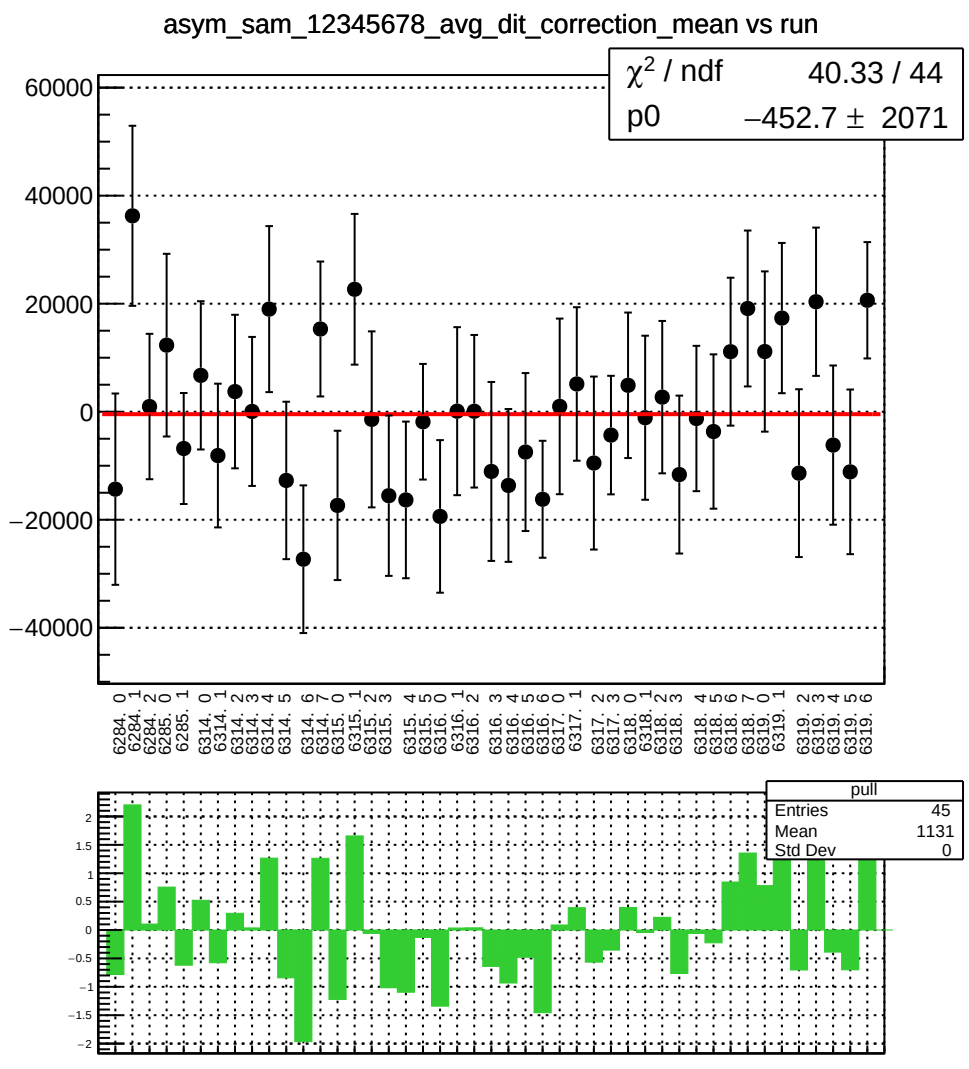
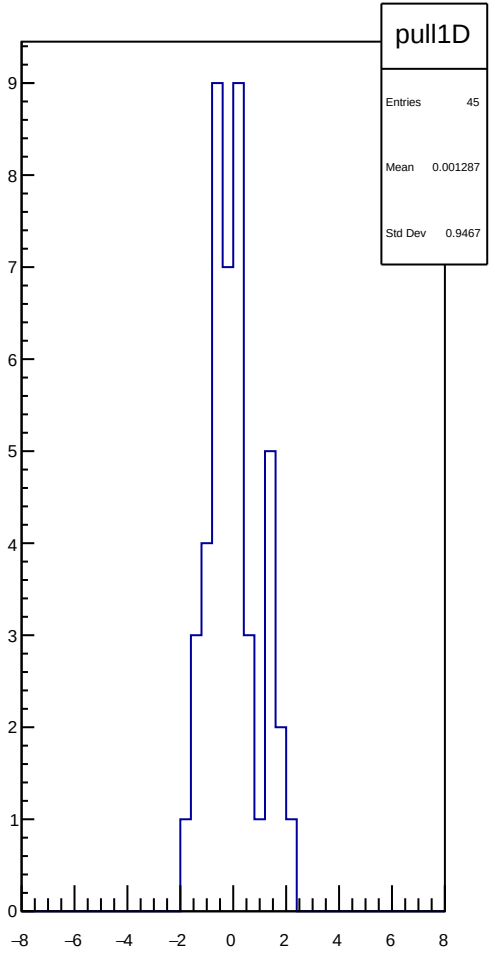
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

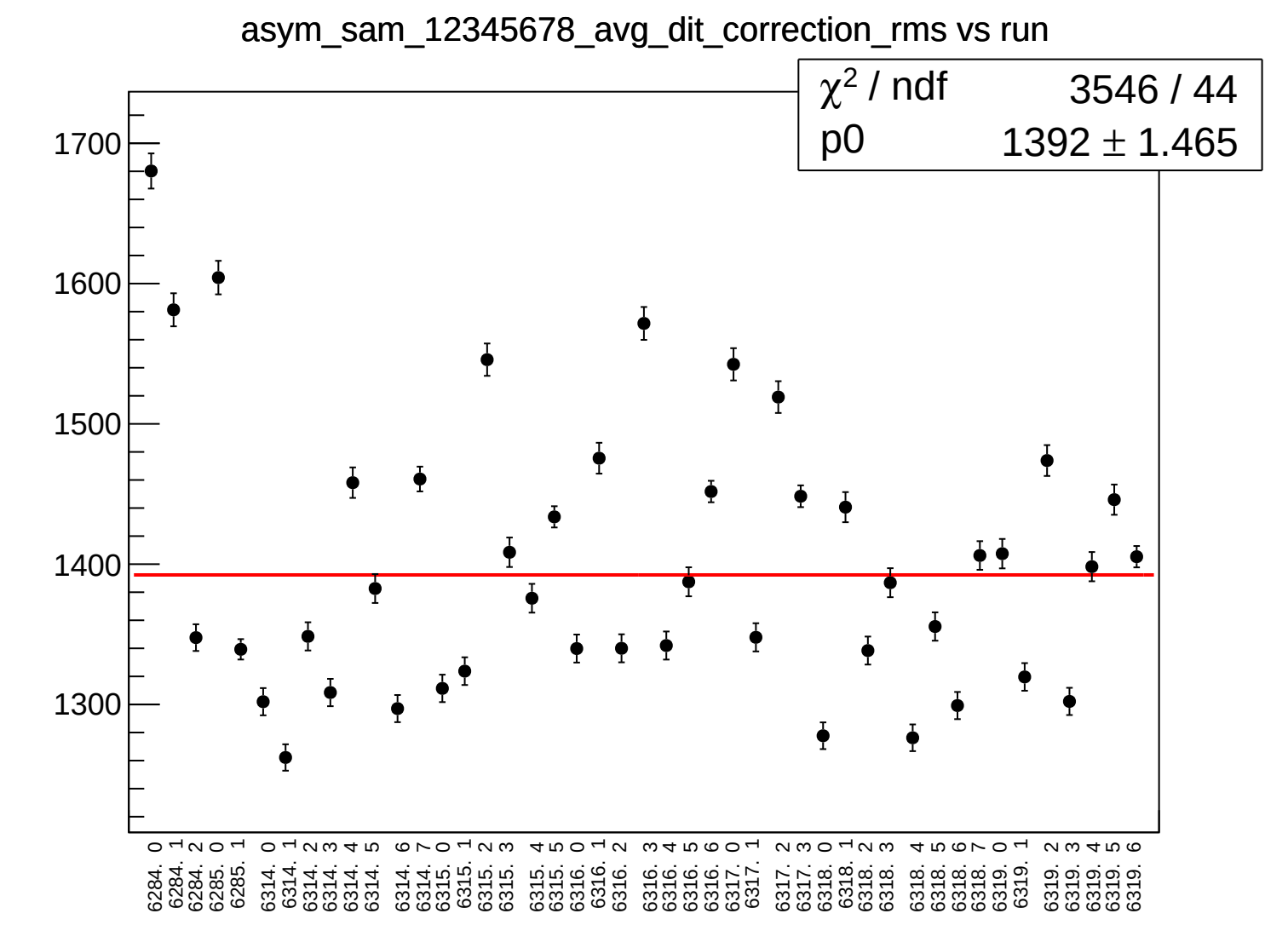

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 48.53 / 44
p0 −251 ± 173.1
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −38.45
Std Dev 0
3
2
1
0
−1
−2

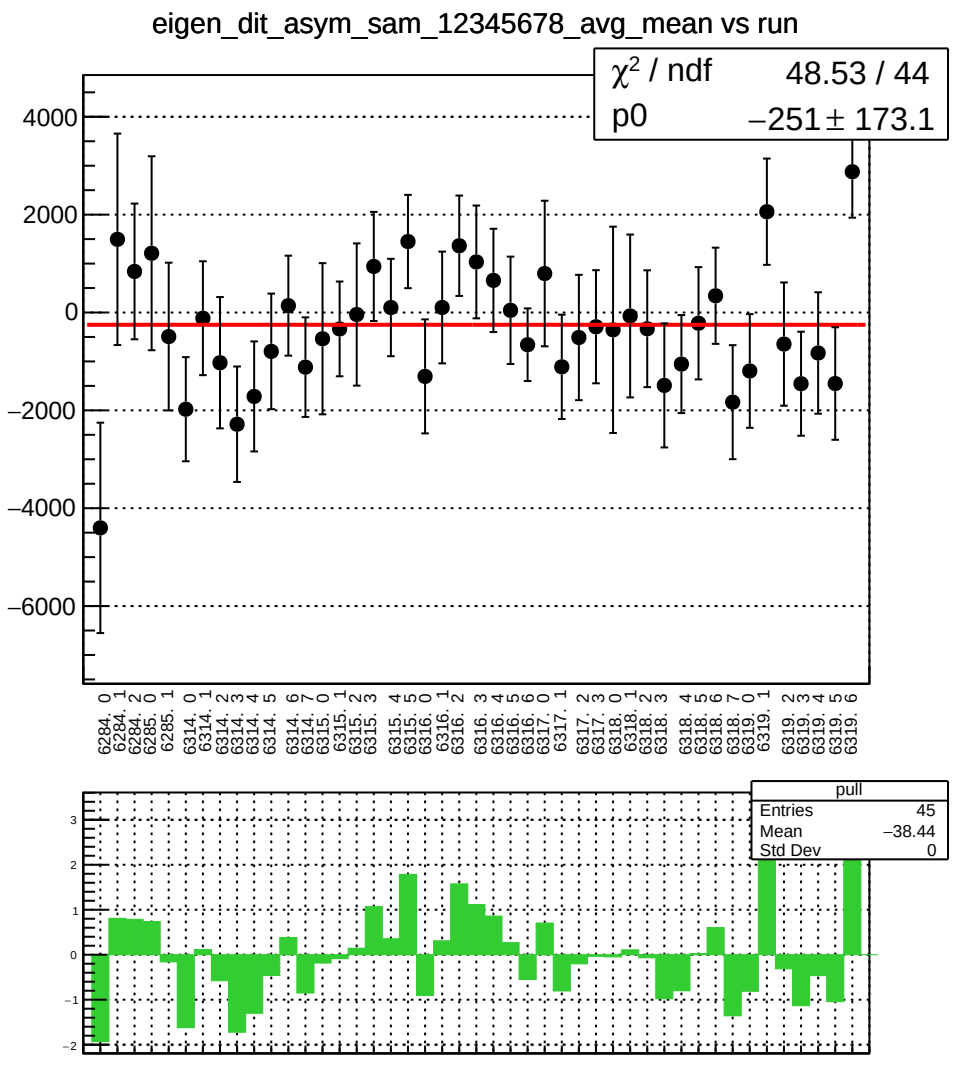

pull1D
Entries 45
Mean −0.02681
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

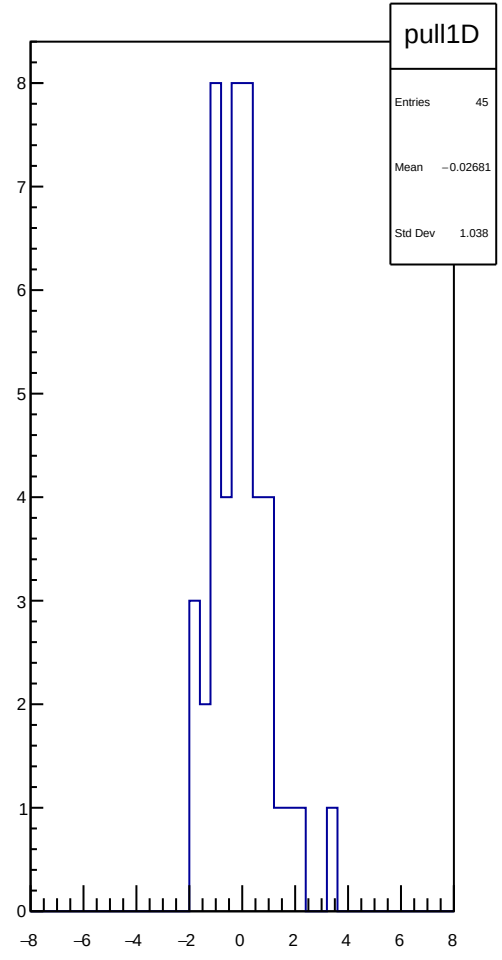

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.382e+04 / 44
p0 114.4 ± 0.1224
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

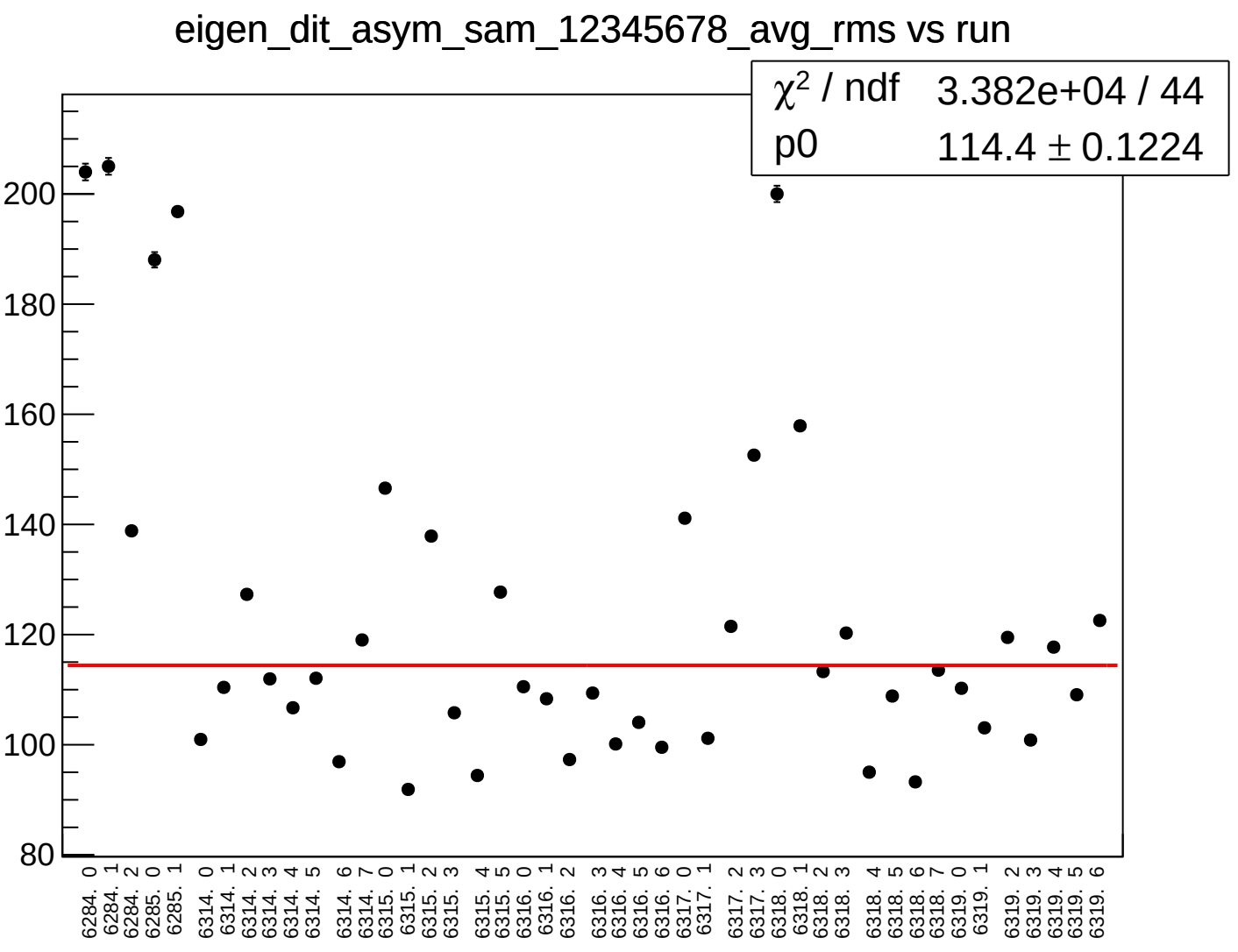

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 40.33 / 44
p0 −452.7 ± 2071
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1131
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

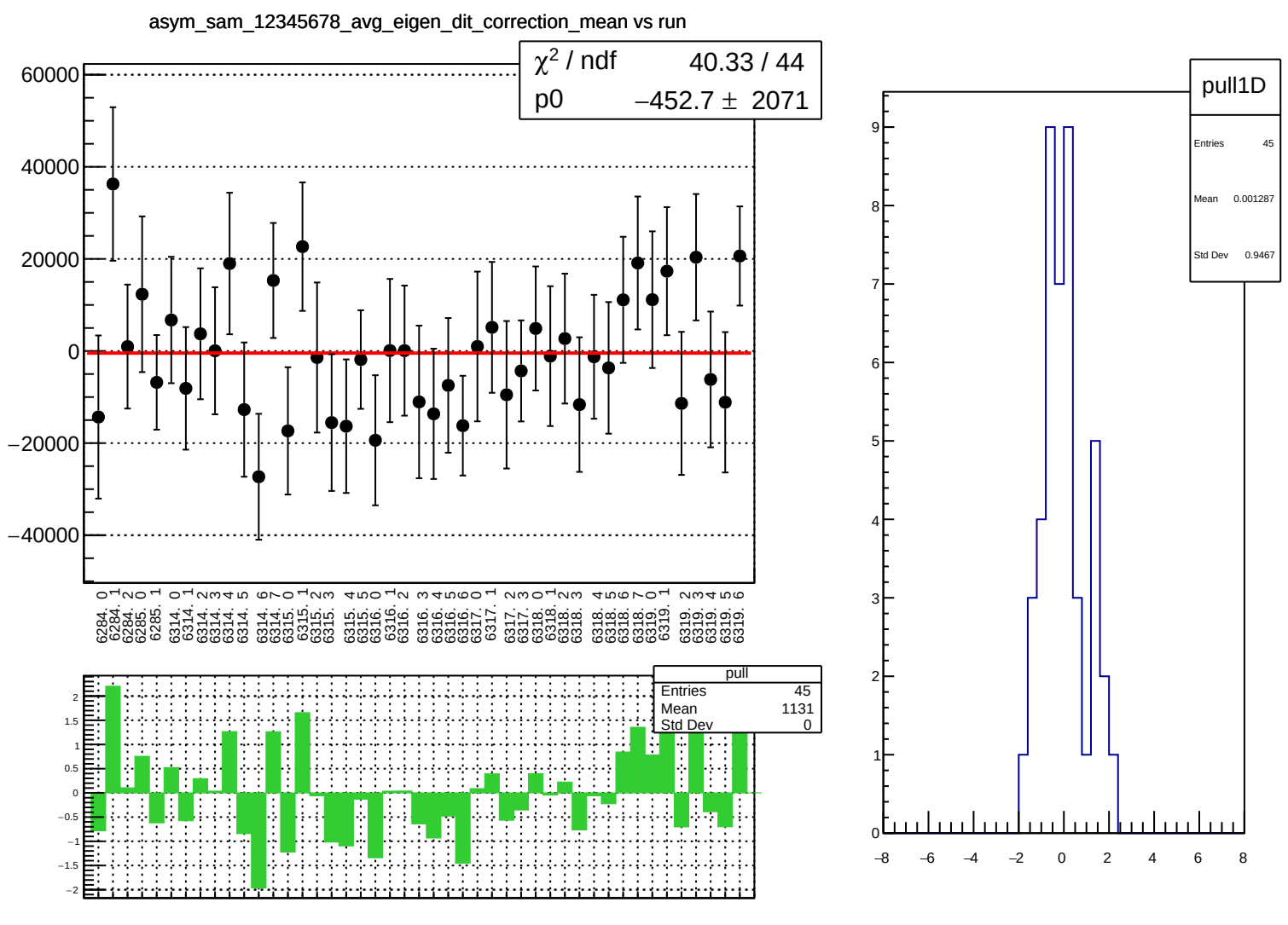

pull1D
Entries 45
Mean 0.001287
Std Dev 0.9467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

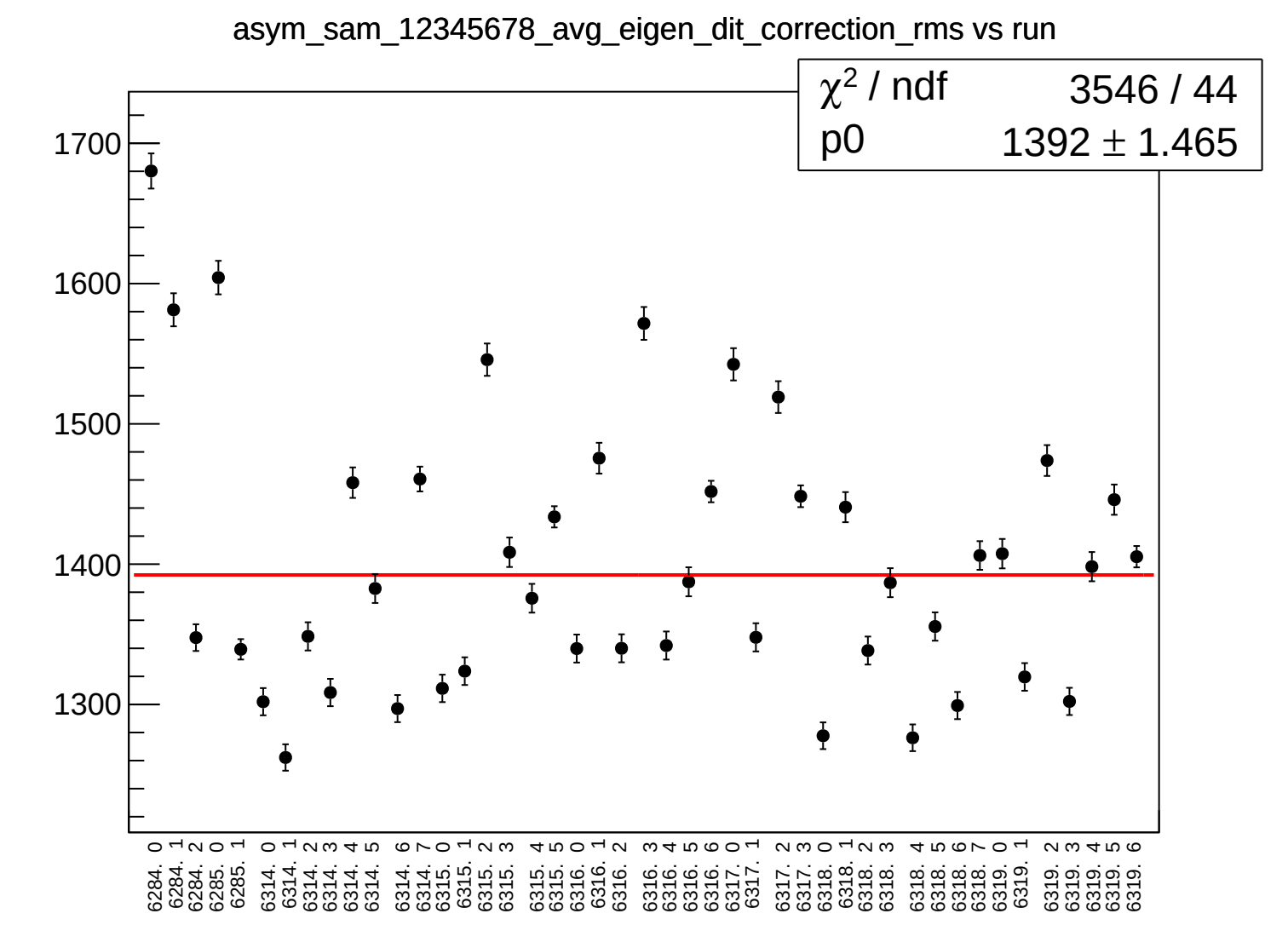

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3546 / 44
p0 1392 ± 1.465
1700
1600
1500
1400
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

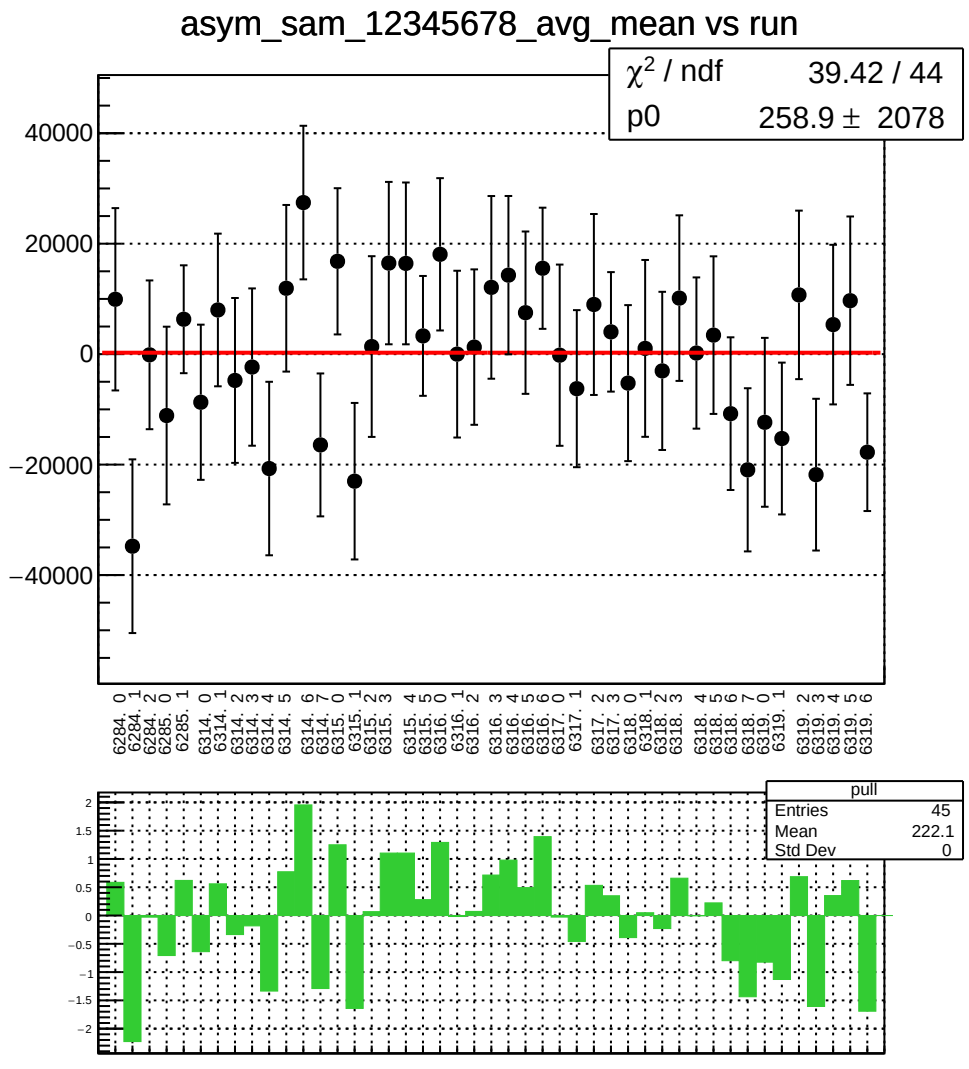

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 48.53 / 44
p0 −251 ± 173.1
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −38.44
Std Dev 0
3
2
1
0
−1
−2

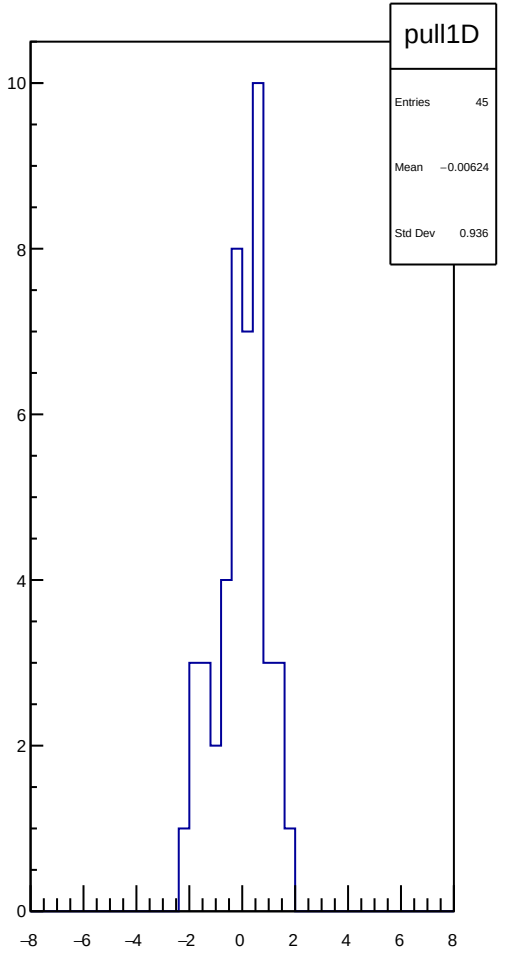

pull1D
Entries 45
Mean −0.02681
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

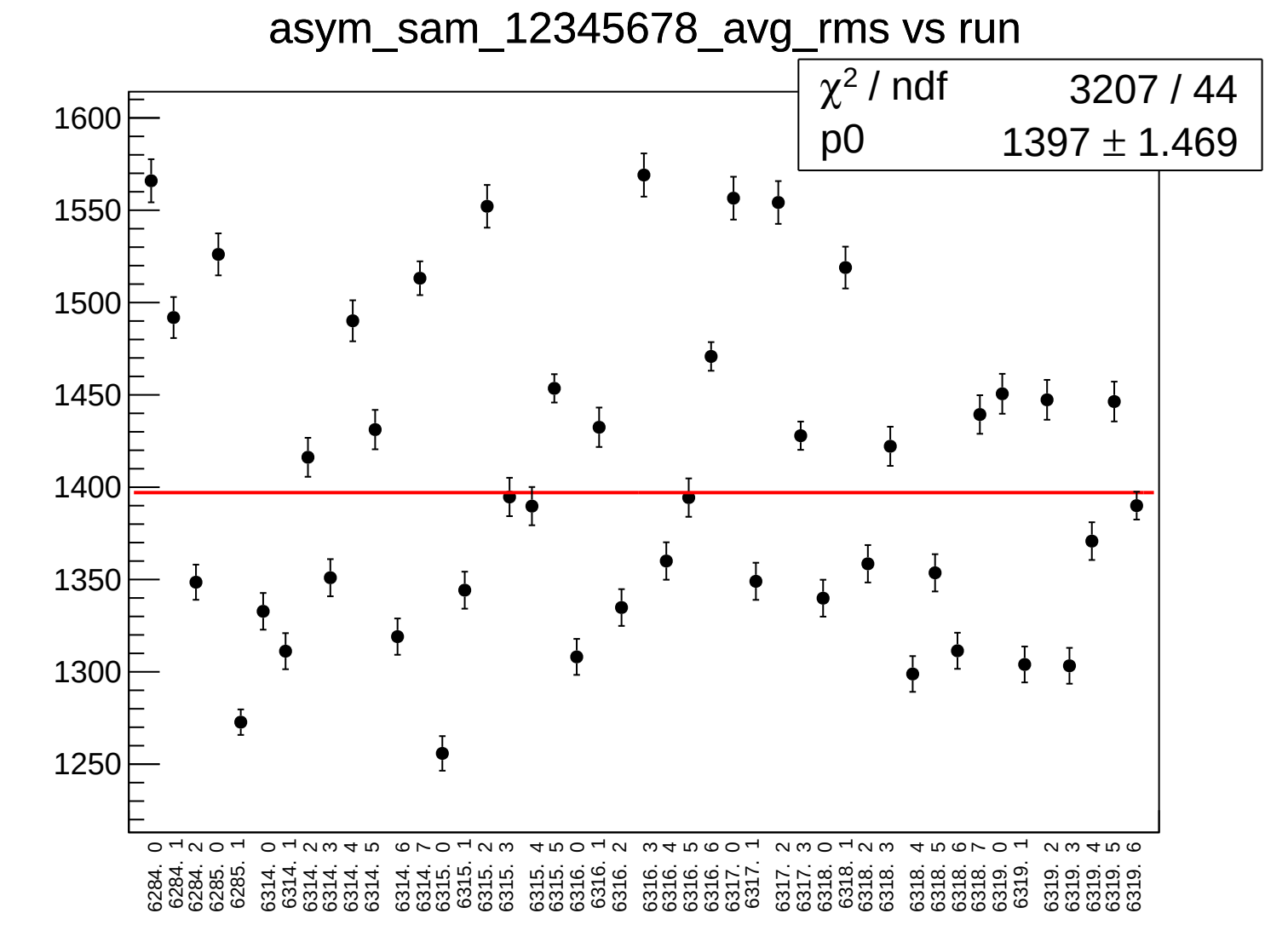

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.382e+04 / 44
p0 114.4 ± 0.1224
200
180
160
140
120
100
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

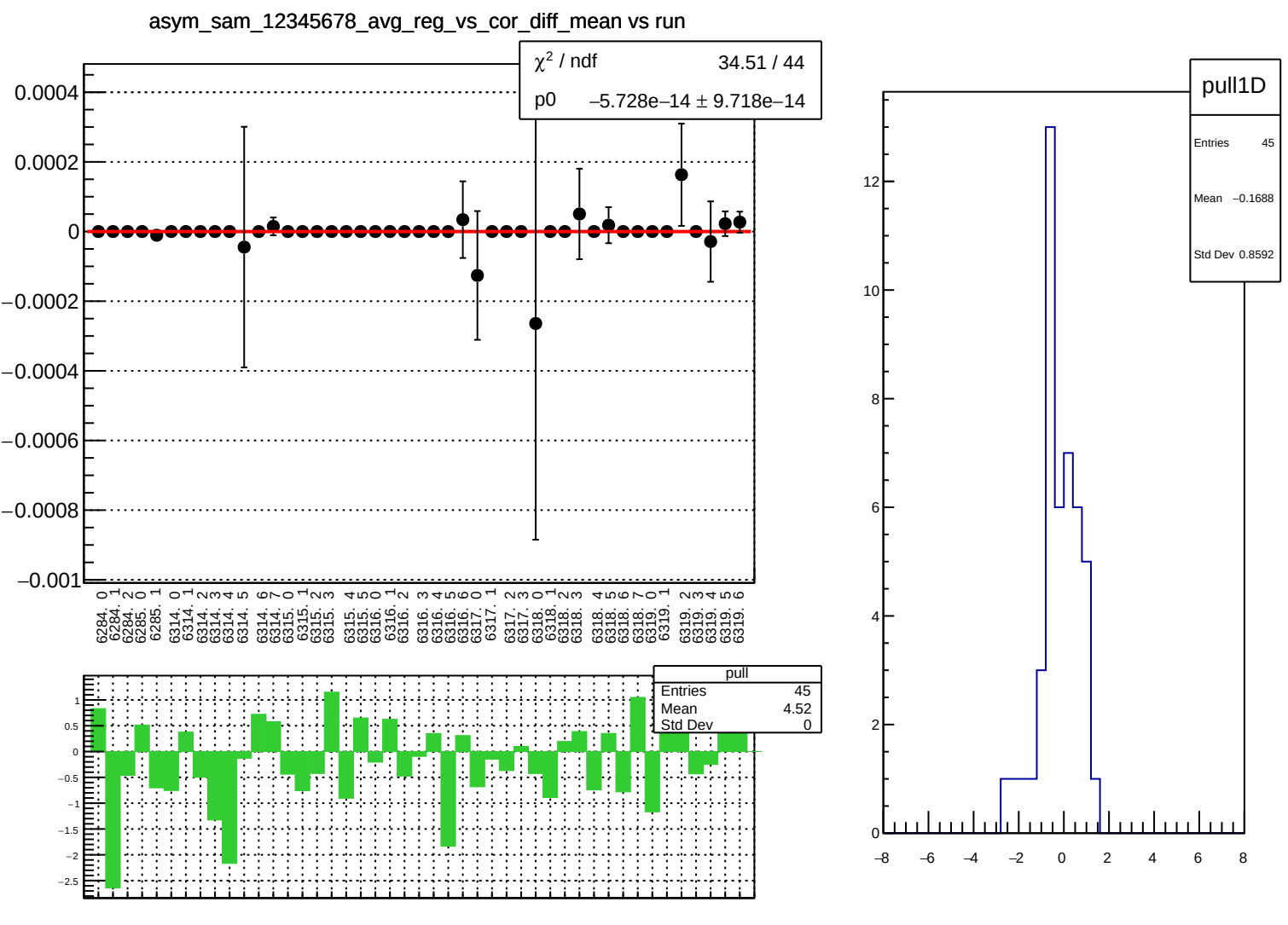

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.33 / 44
p0 −452.7 ± 2071
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1131
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001287
Std Dev 0.9467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

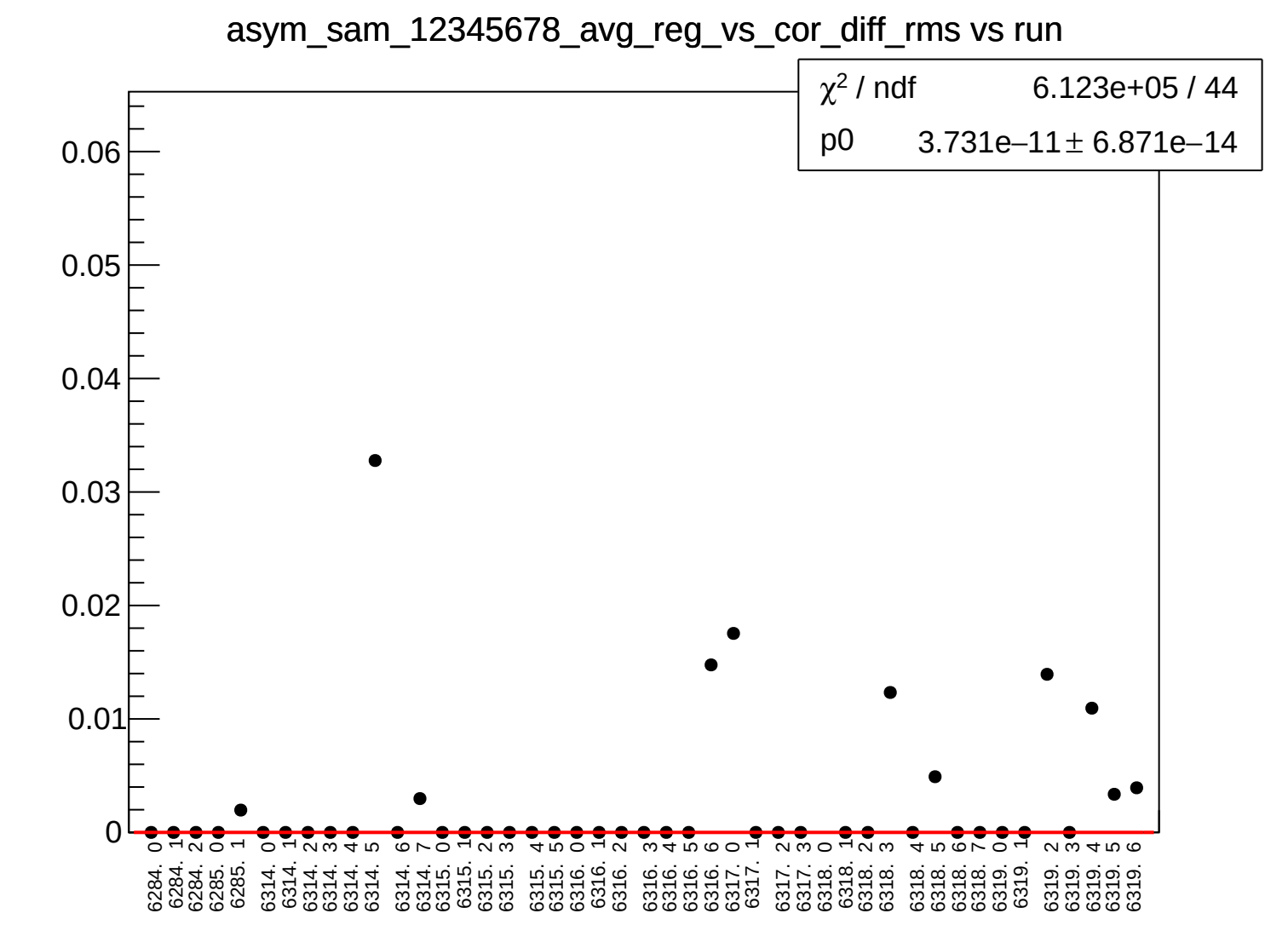

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3546 / 44
p0 1392 ± 1.465
1700
1600
1500
1400
1300
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

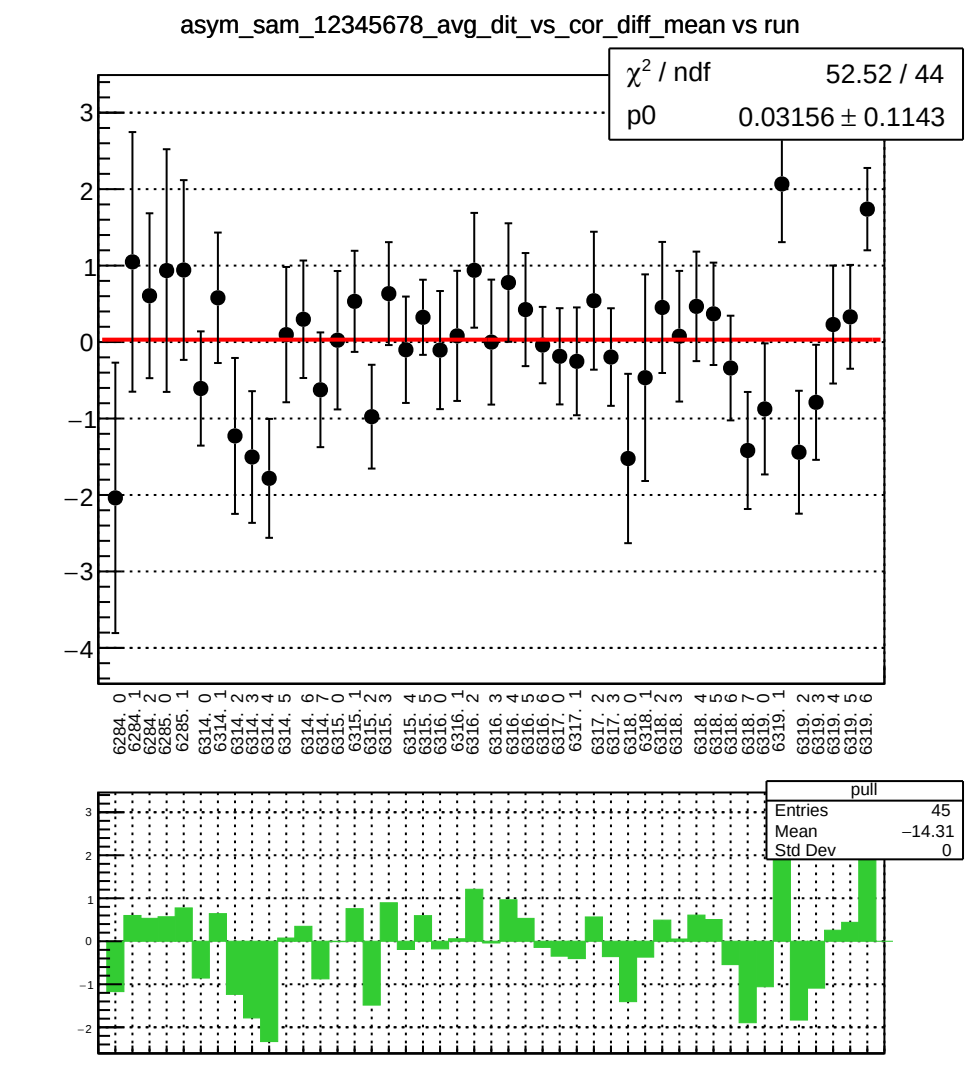

asym_sam_12345678_avg_mean vs run
χ² / ndf 39.42 / 44
p0 258.9 ± 2078
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 222.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

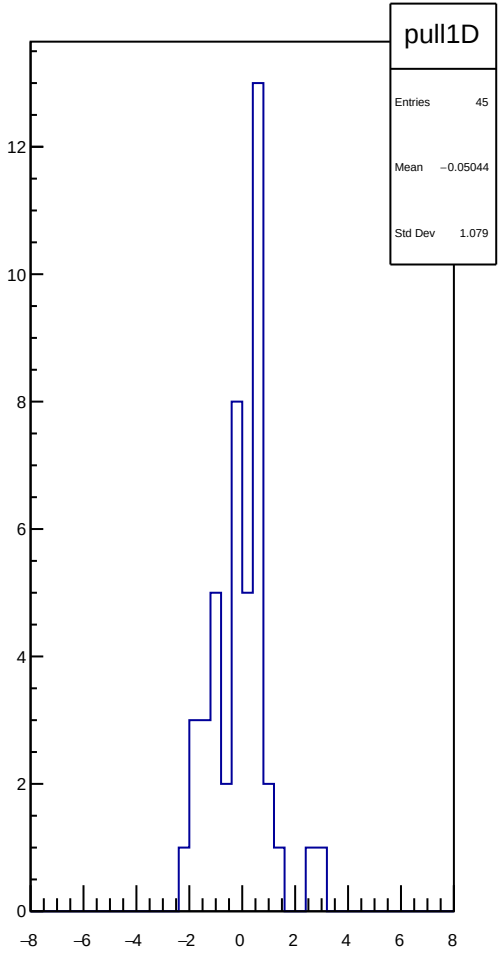

pull1D
Entries 45
Mean −0.00624
Std Dev 0.936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

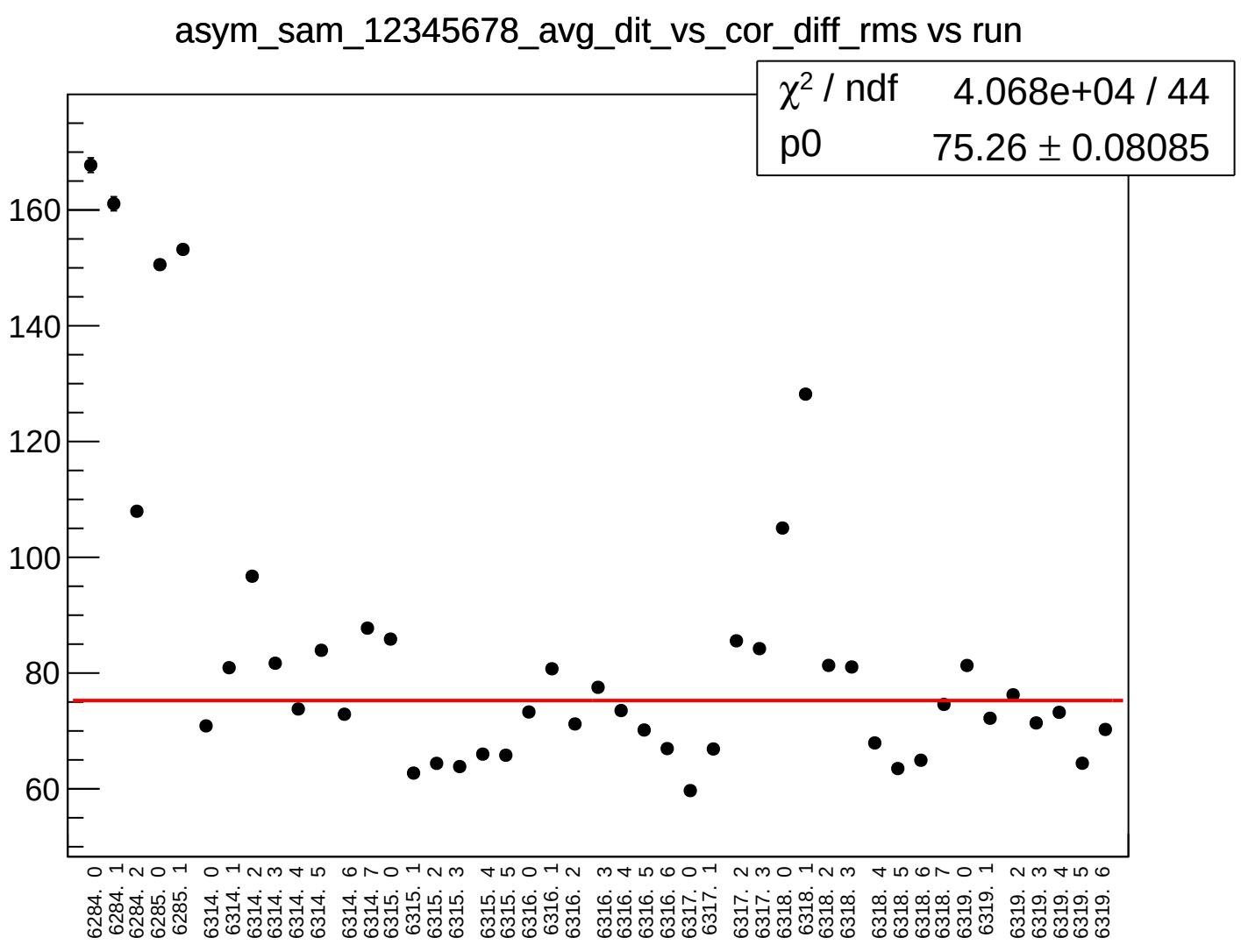

asym_sam_12345678_avg_rms vs run
χ² / ndf 3207 / 44
p0 1397 ± 1.469
1600
1550
1500
1450
1400
1350
1300
1250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.51 / 44
p0 −5.728e−14 ± 9.718e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 4.52
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.1688
Std Dev 0.8592
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.123e+05 / 44
p0 3.731e−11 ± 6.871e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6


asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.52 / 44
p0 0.03156 ± 0.1143
pull
Entries 45
Mean −14.31
Std Dev 0


pull1D
Entries 45
Mean −0.05044
Std Dev 1.079


asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.068e+04 / 44
p0 75.26 ± 0.08085
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
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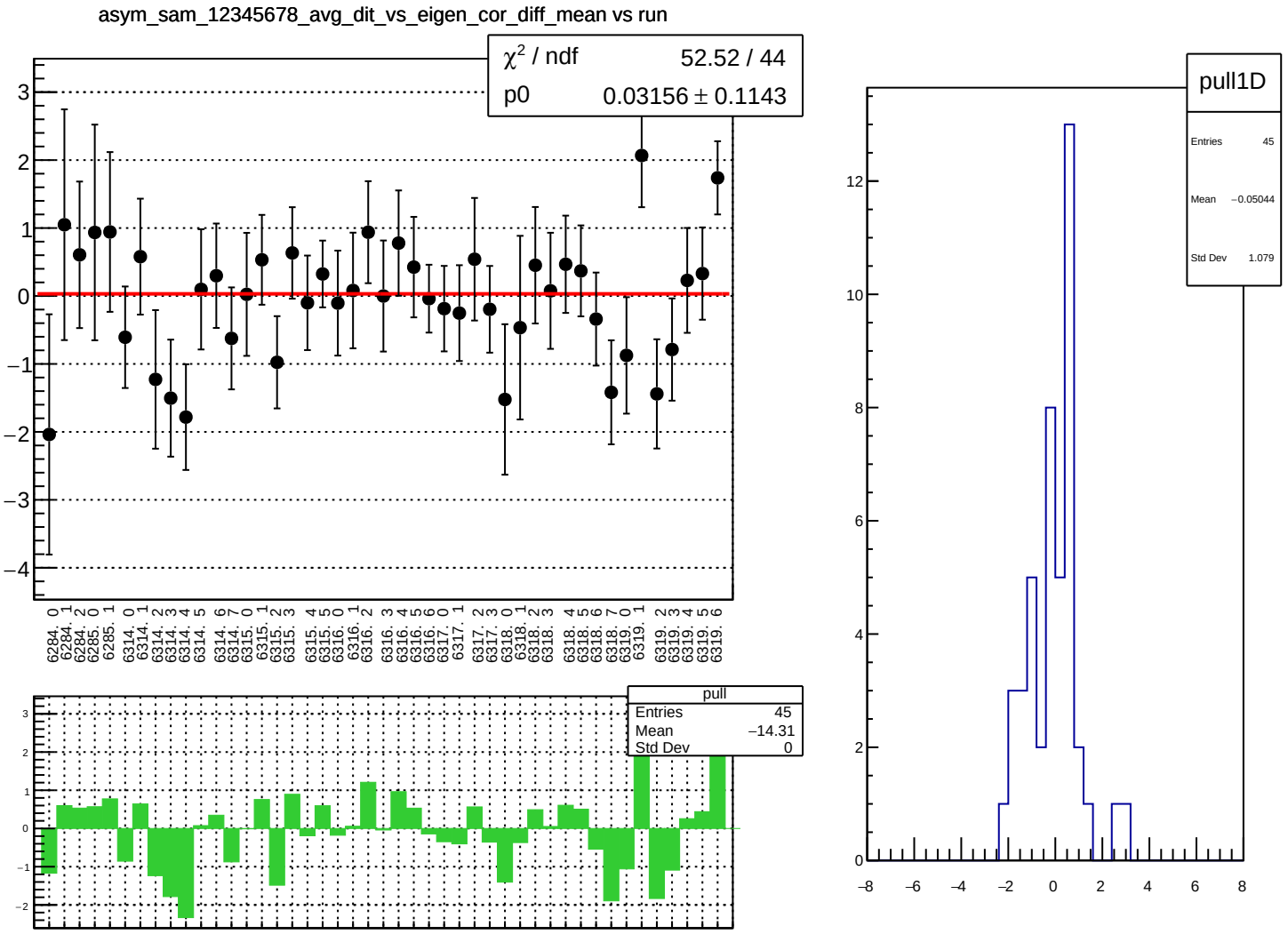
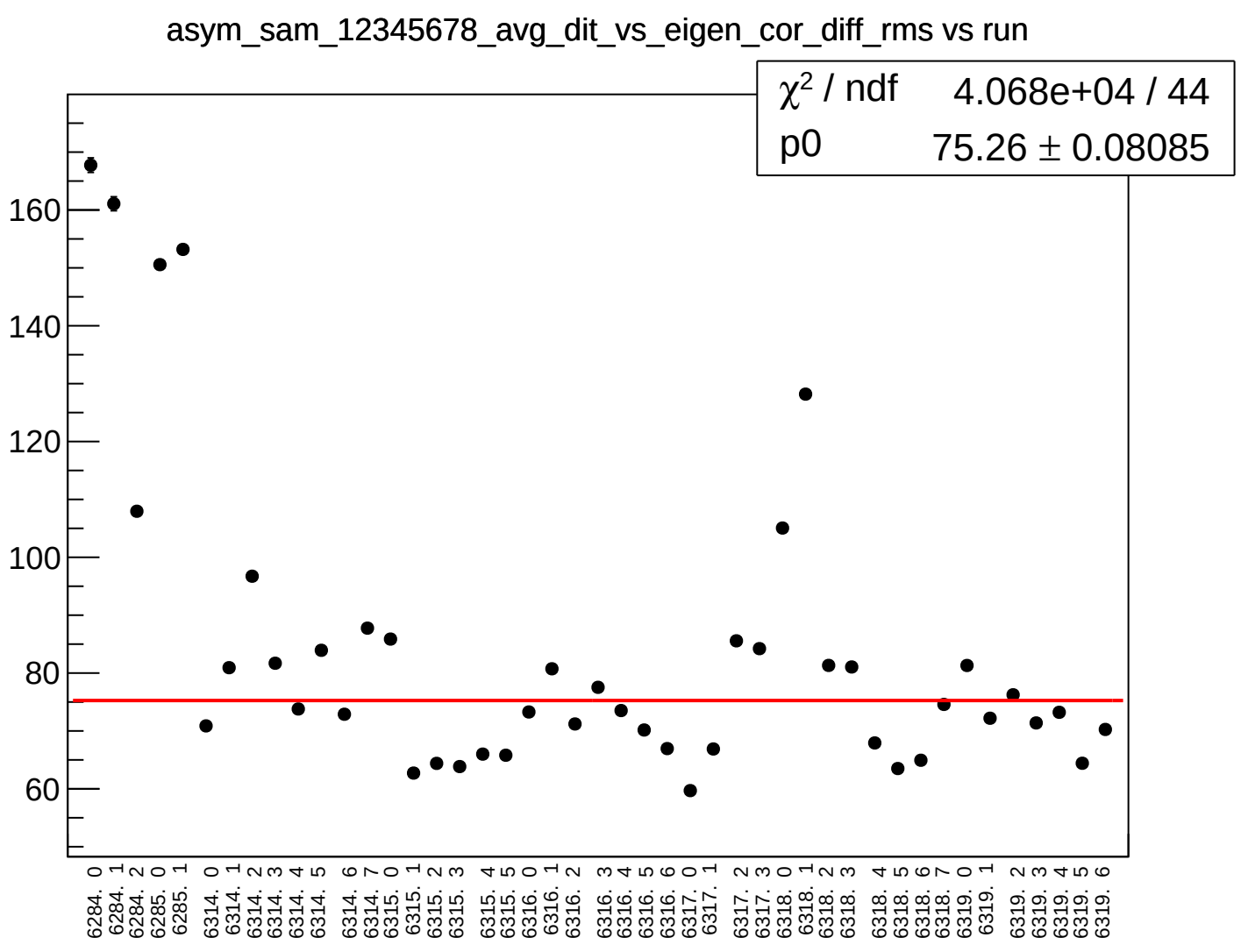
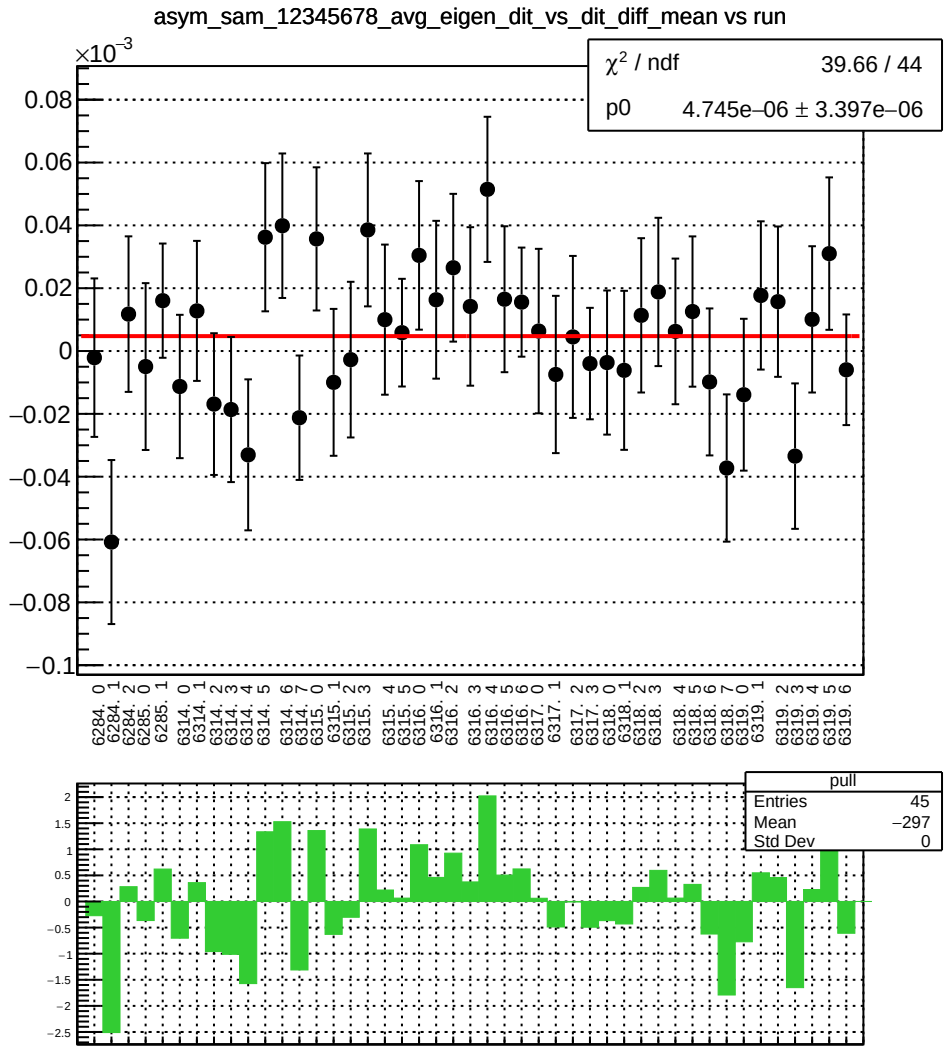
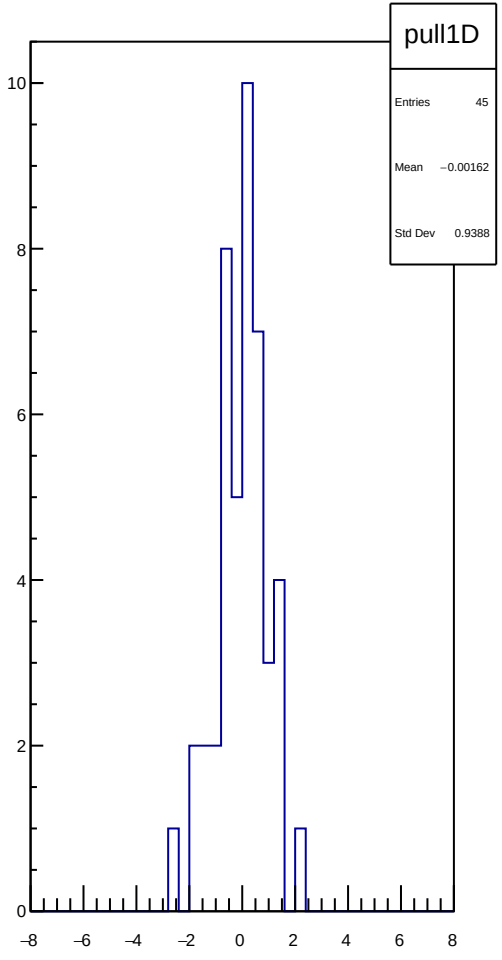
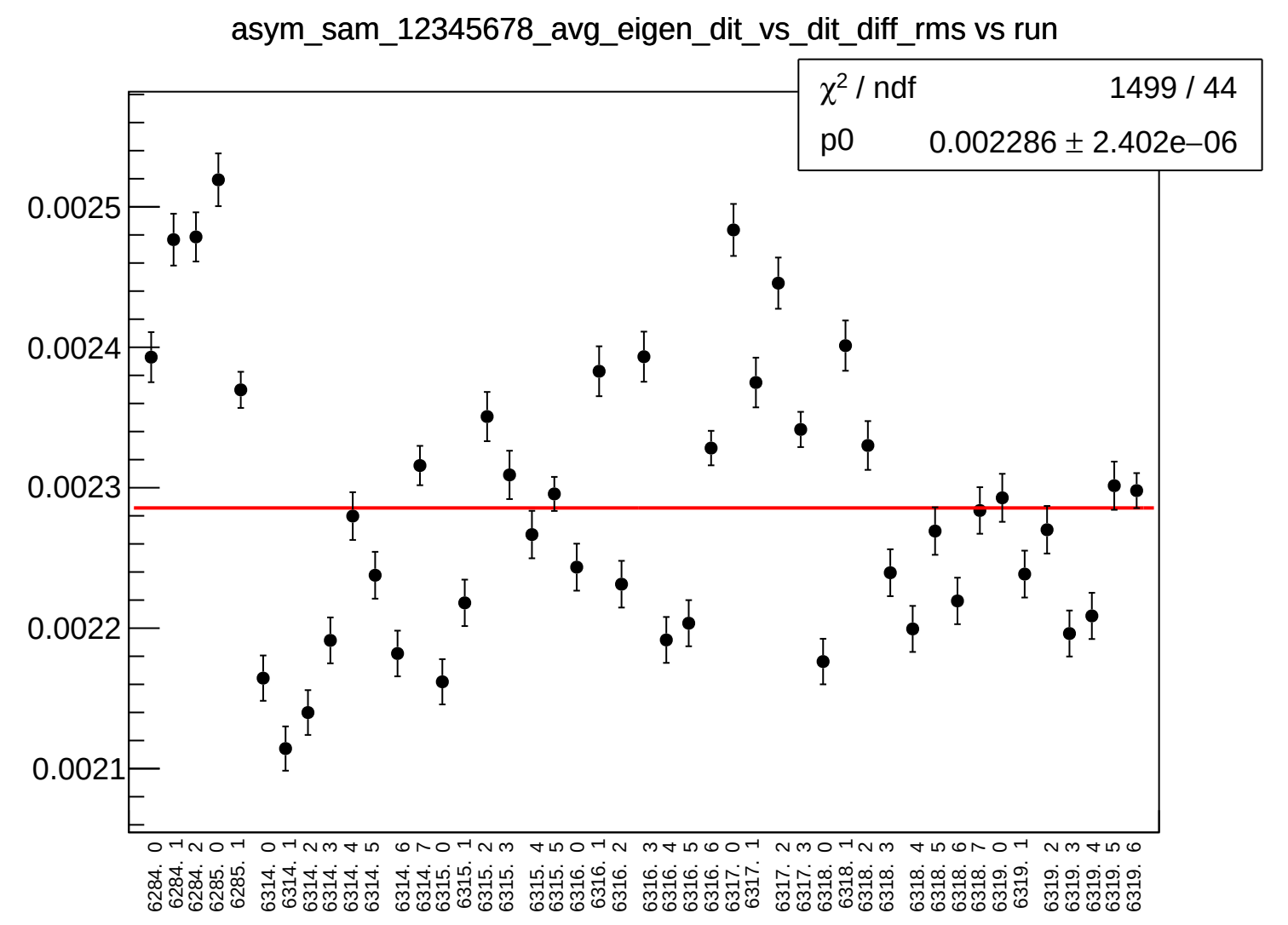
6319. 5
6319. 6

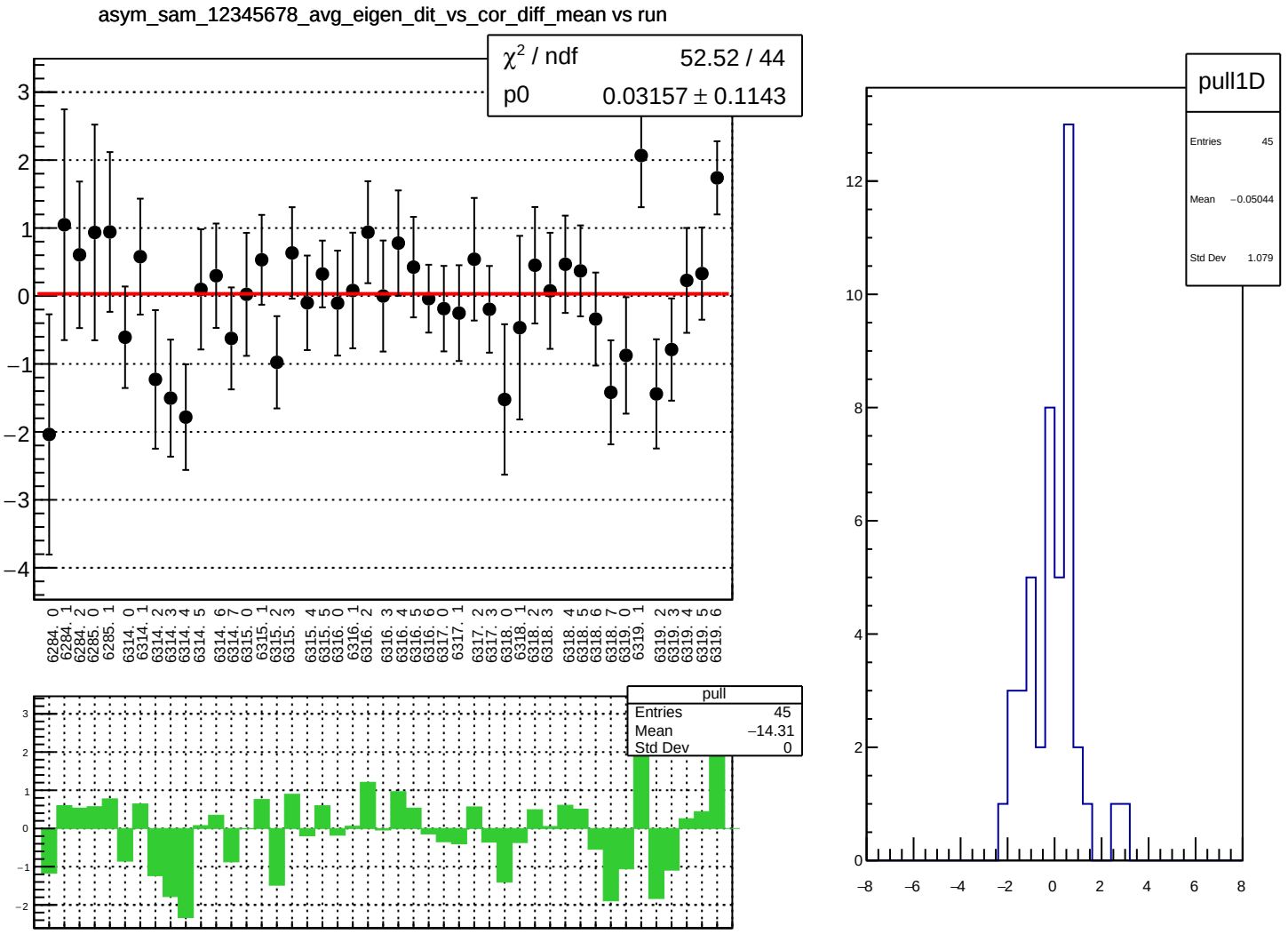

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.52 / 44
p0 0.03156 ± 0.1143
pull
Entries 45
Mean −14.31
Std Dev 0
pull1D
Entries 45
Mean −0.05044
Std Dev 1.079

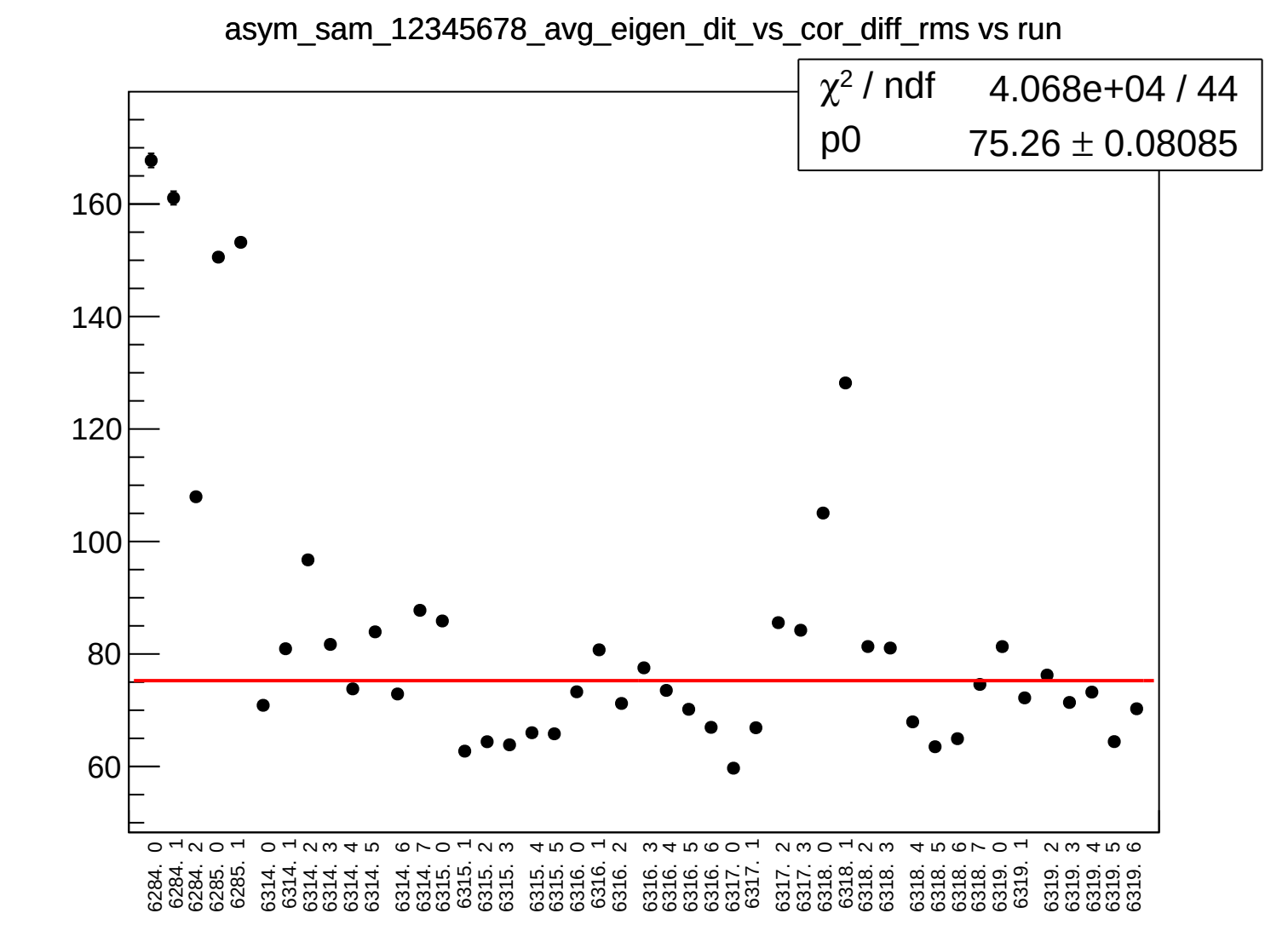

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.068e+04 / 44
p0 75.26 ± 0.08085
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

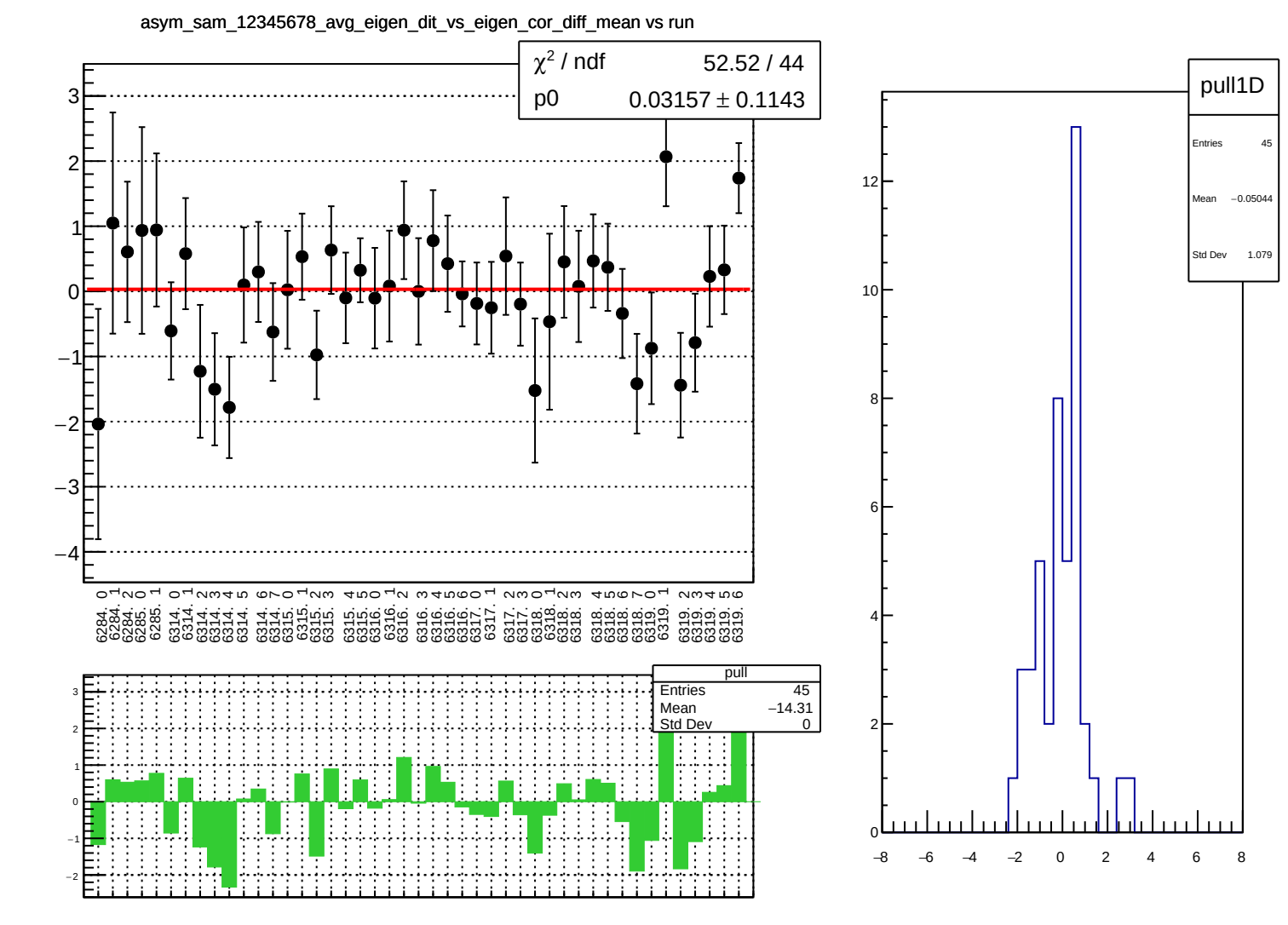

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.66 / 44
p0 4.745e−06 ± 3.397e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −297
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

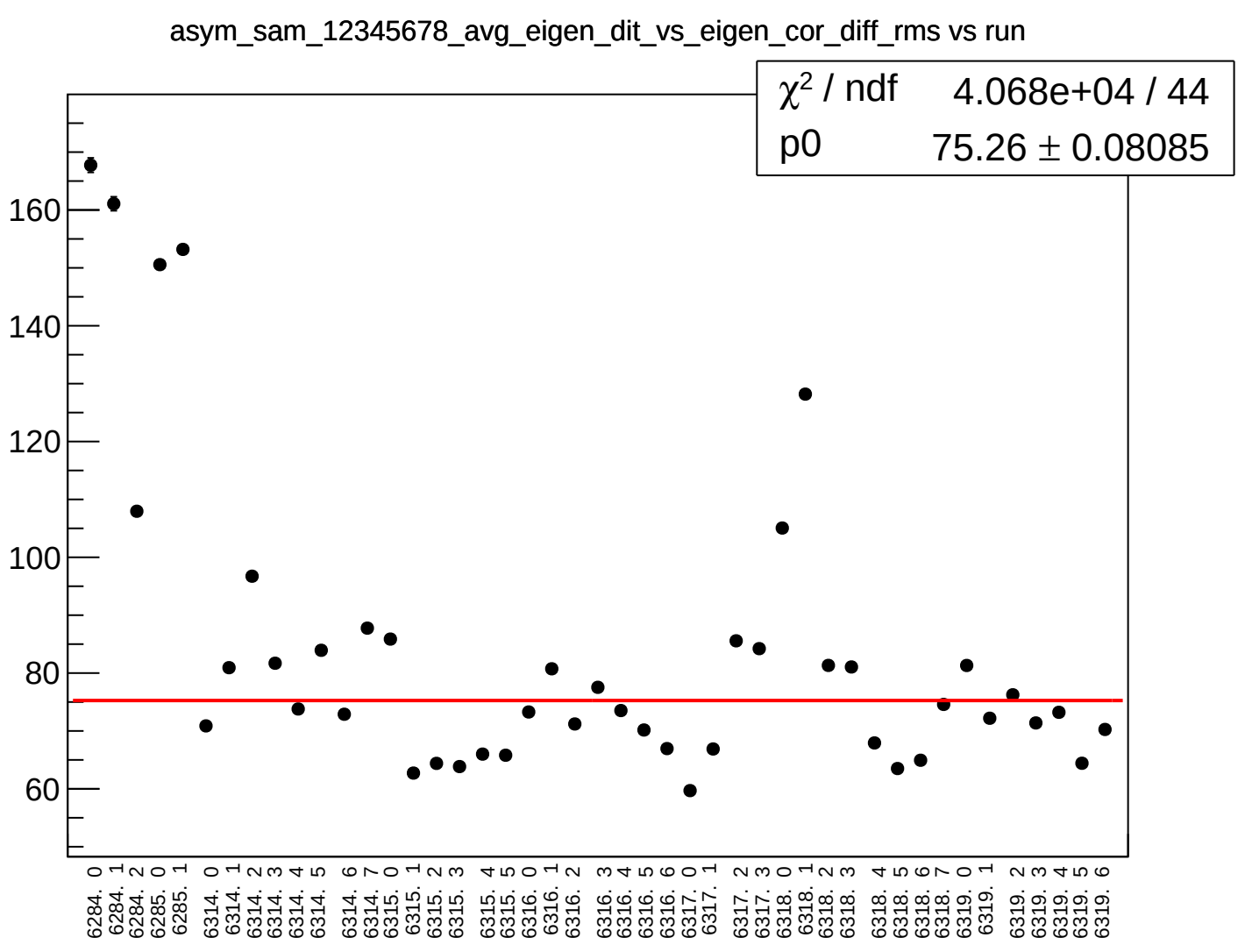

pull1D
Entries 45
Mean −0.00162
Std Dev 0.9388
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

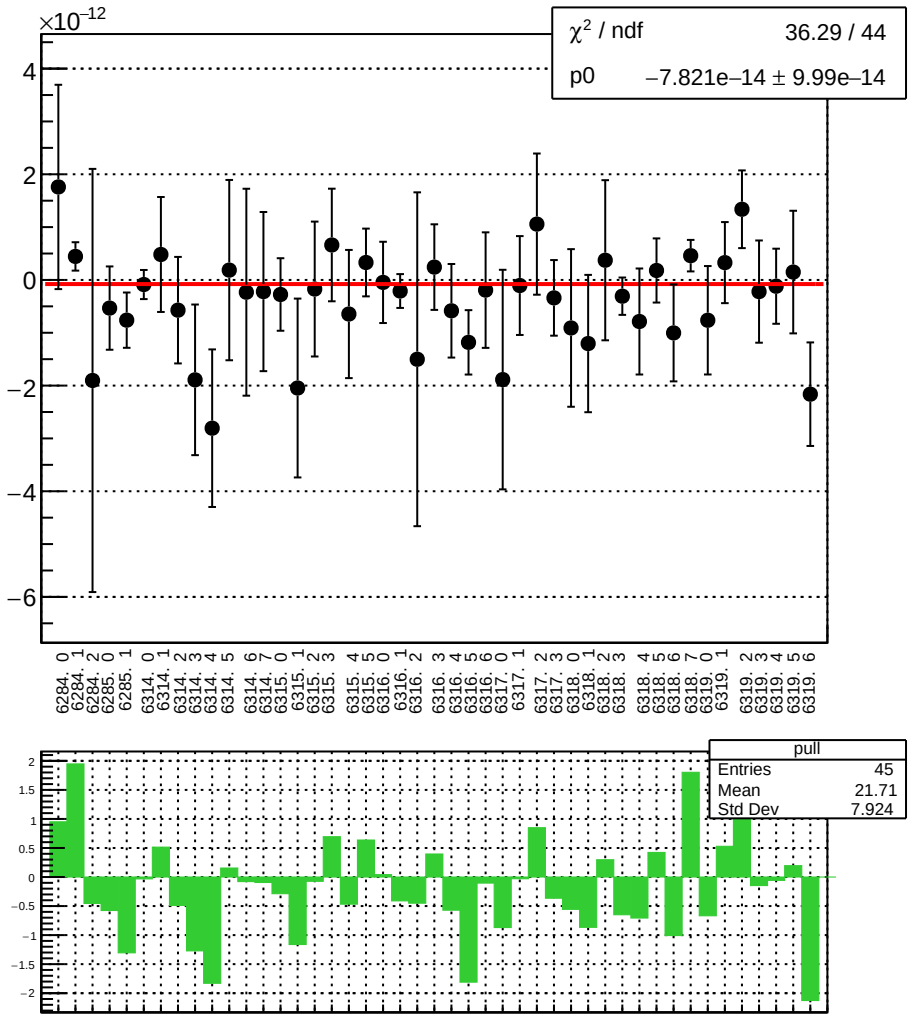

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1499 / 44
p0 0.002286 ± 2.402e−06
0.0025
0.0024
0.0023
0.0022
0.0021
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

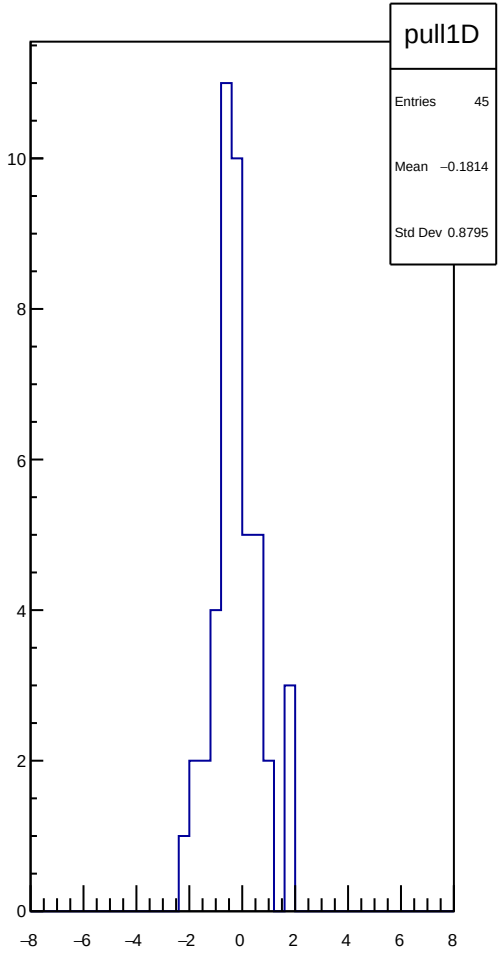

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.52 / 44
p0 0.03157 ± 0.1143
pull
Entries 45
Mean −14.31
Std Dev 0
pull1D
Entries 45
Mean −0.05044
Std Dev 1.079

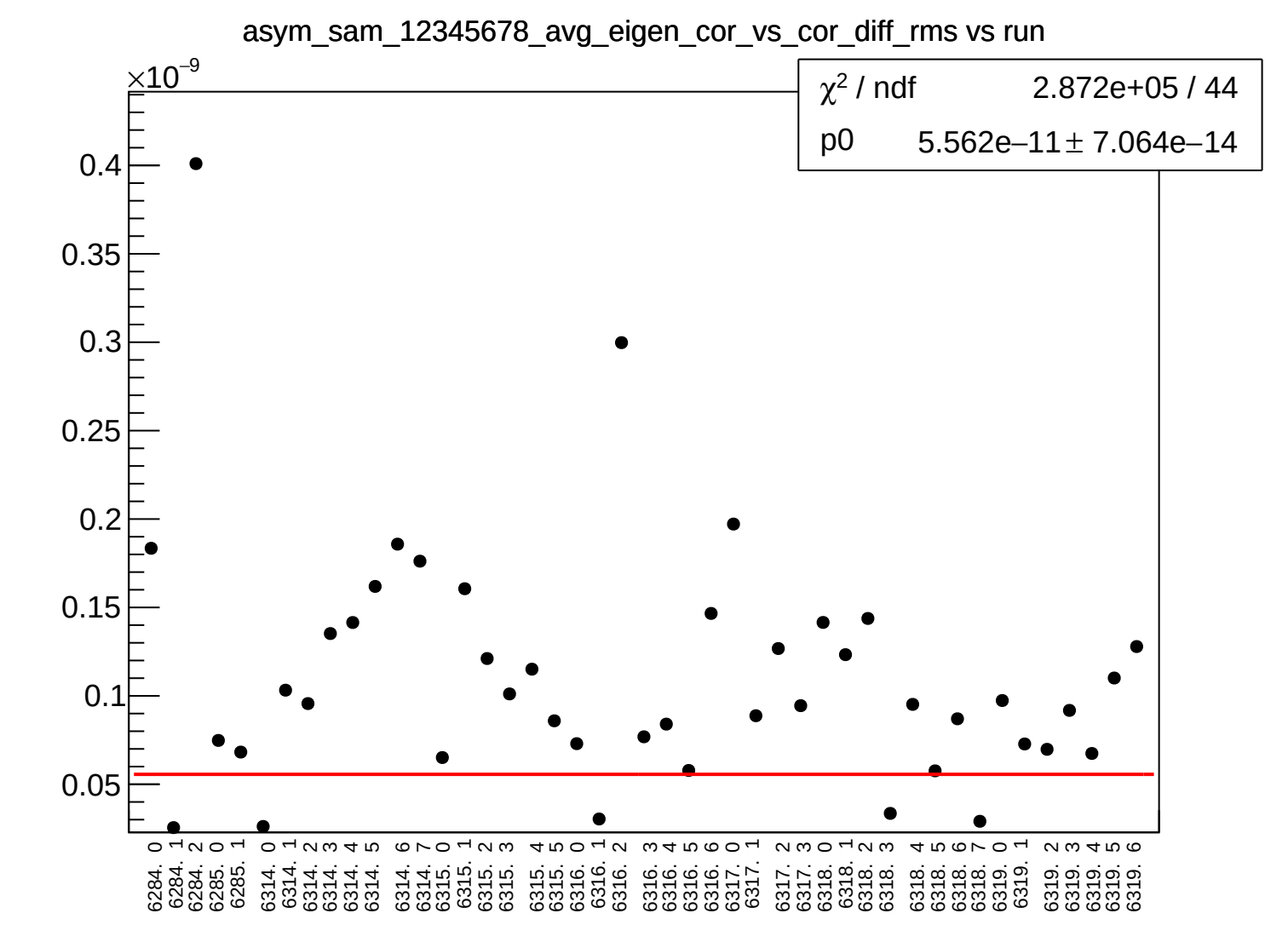

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.068e+04 / 44
p0 75.26 ± 0.08085
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

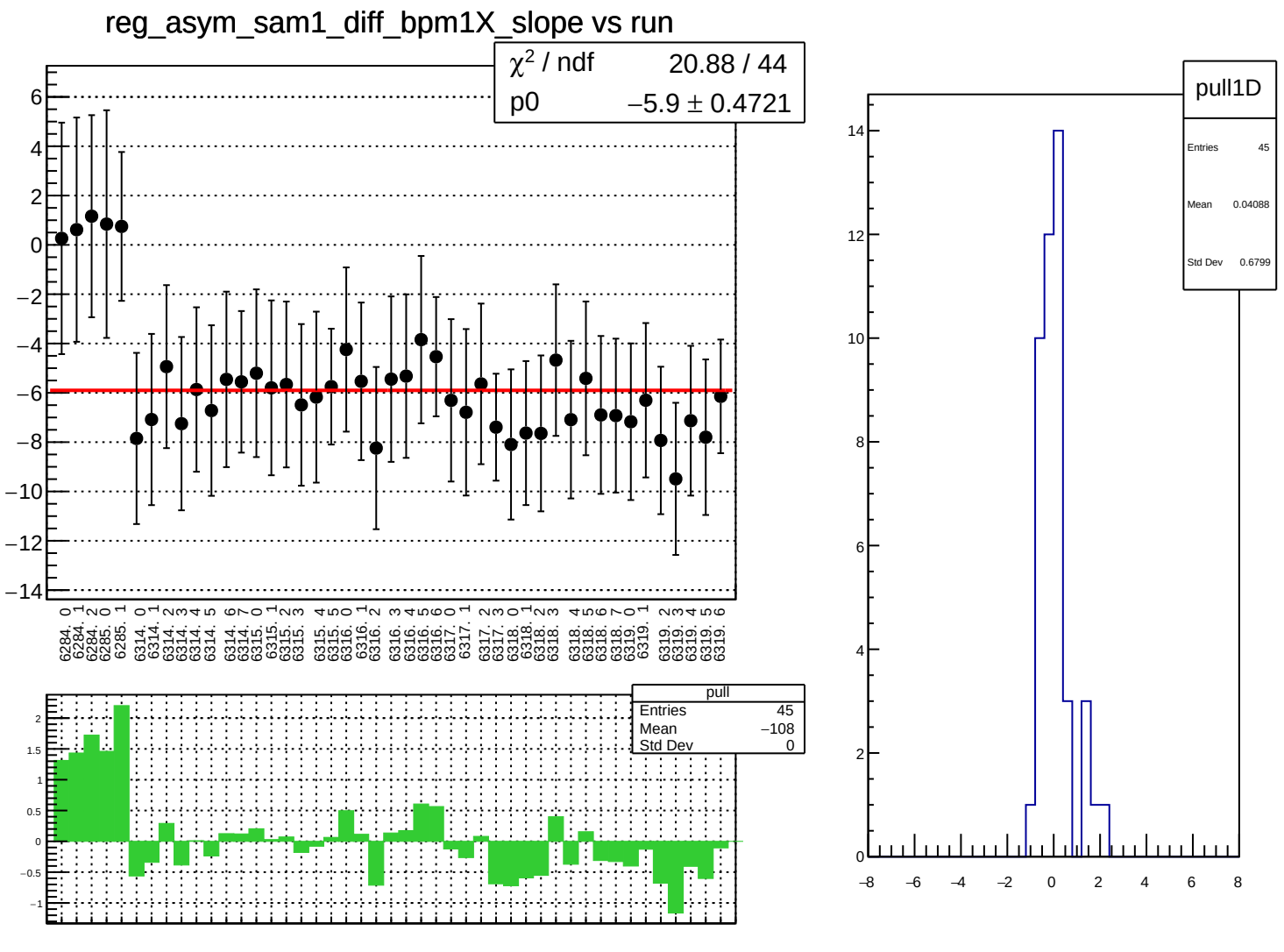

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.52 / 44
p0 0.03157 ± 0.1143
pull
Entries 45
Mean −14.31
Std Dev 0
pull1D
Entries 45
Mean −0.05044
Std Dev 1.079

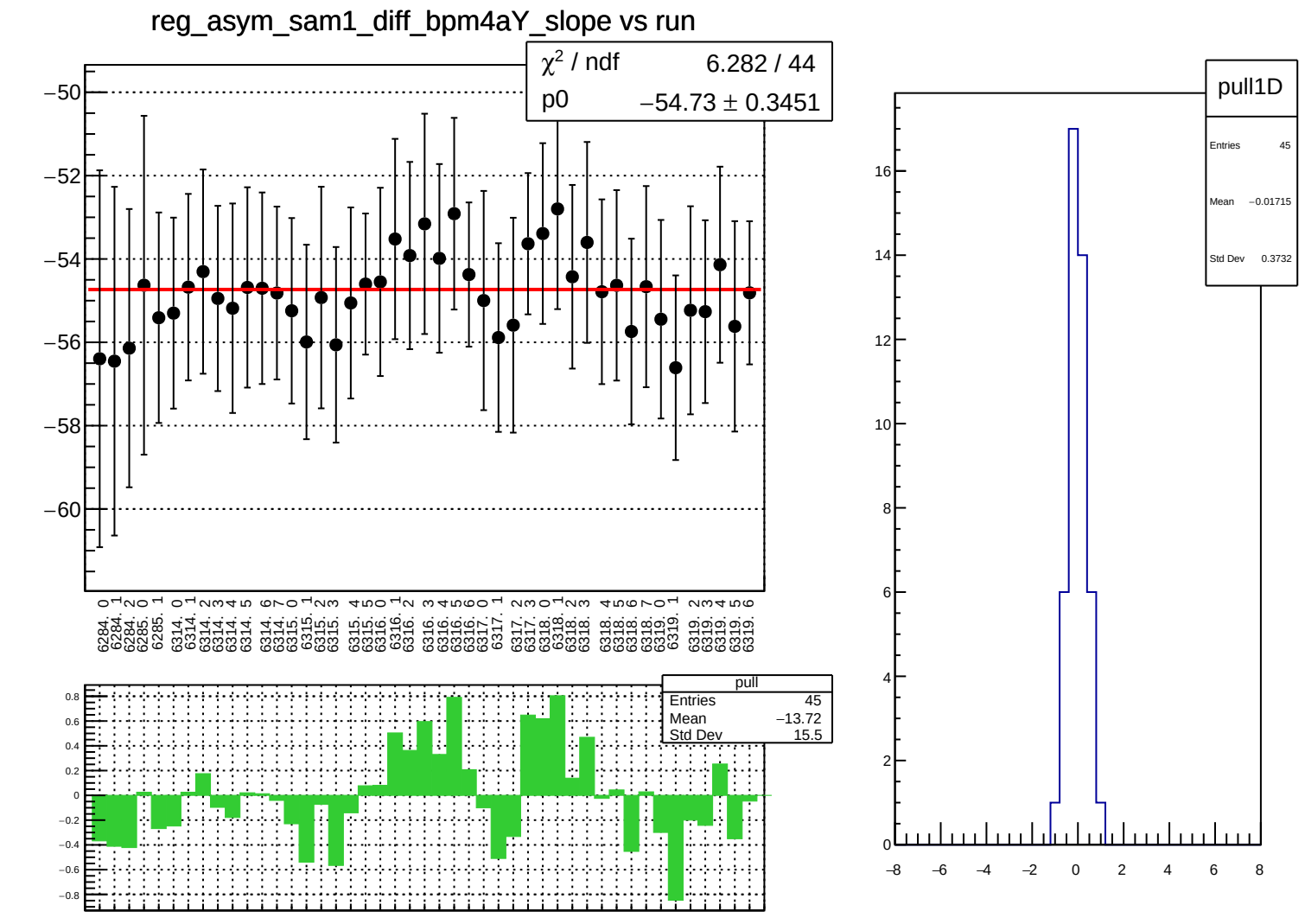

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.068e+04 / 44
p0 75.26 ± 0.08085
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

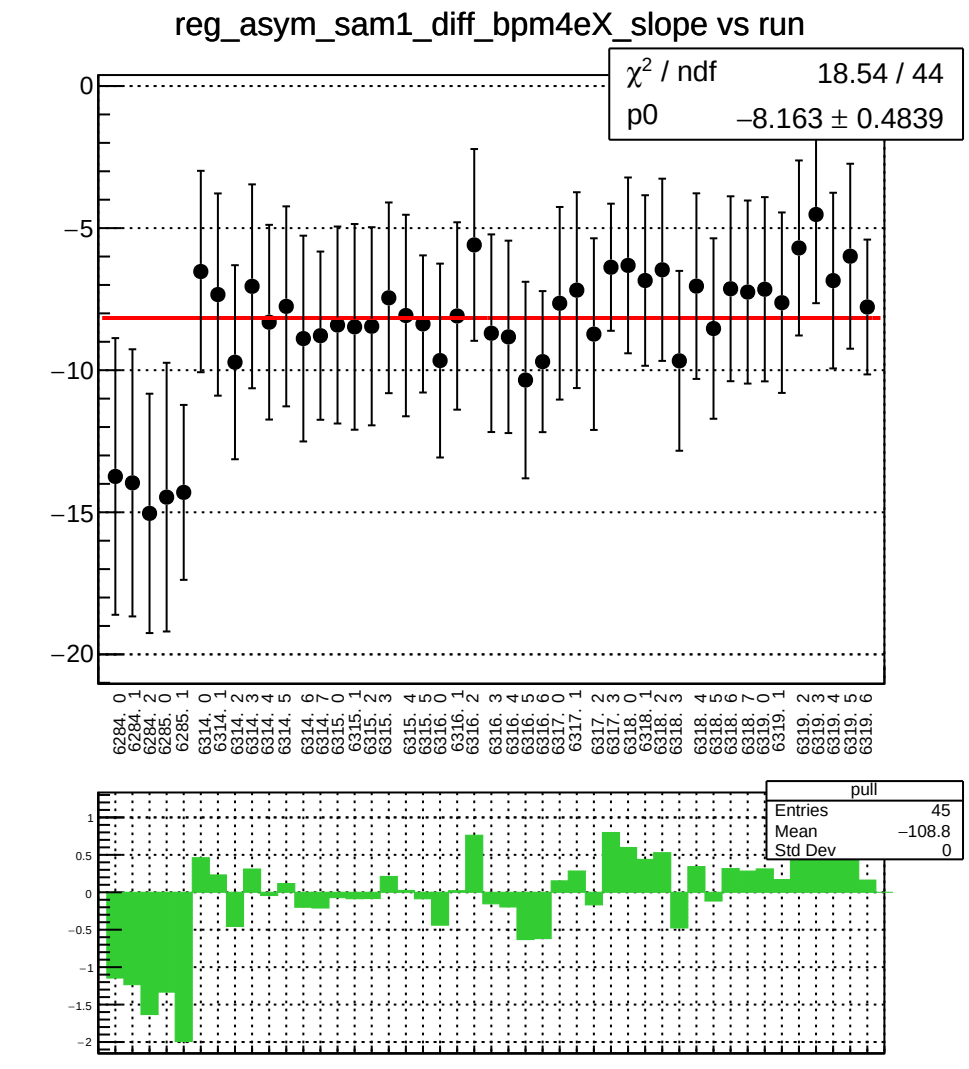

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.29 / 44
p0 −7.821e−14 ± 9.99e−14
pull
Entries 45
Mean 21.71
Std Dev 7.924

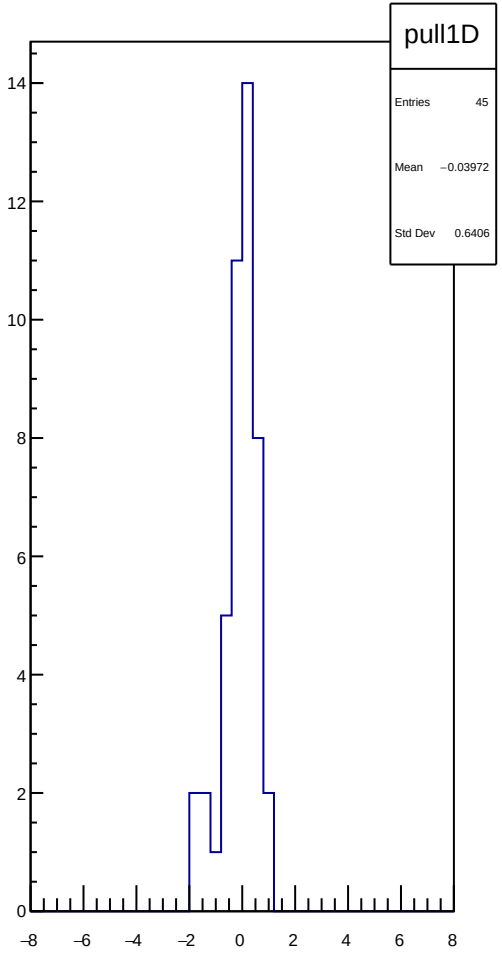

pull1D
Entries 45
Mean −0.1814
Std Dev 0.8795

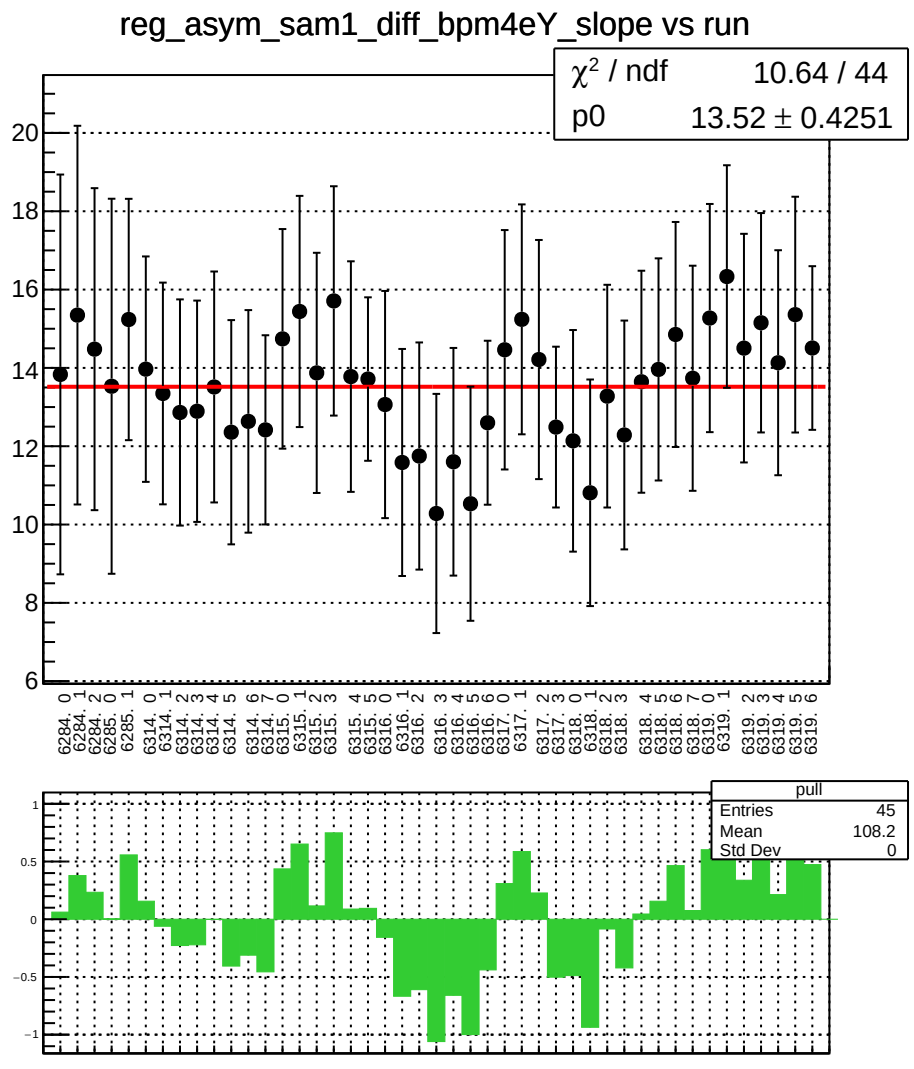

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.872e+05 / 44
p0 5.562e−11 ± 7.064e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

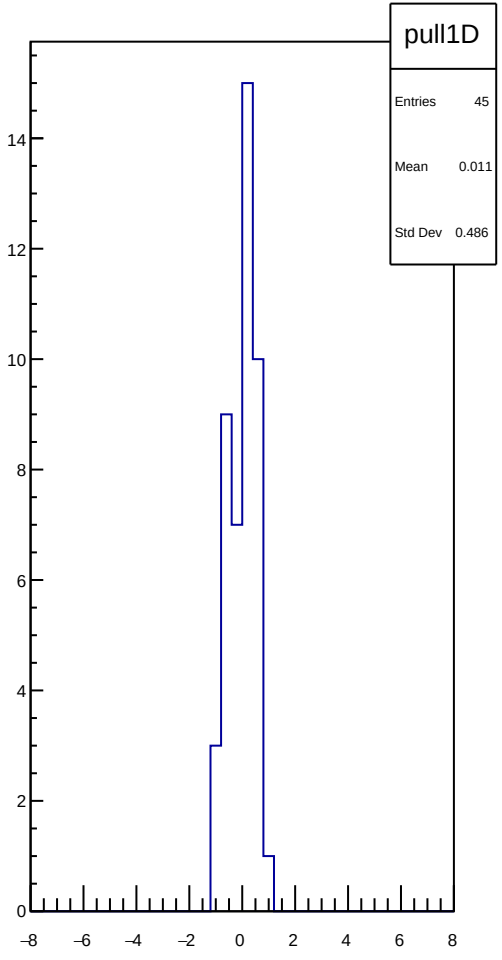

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 20.88 / 44
p0 −5.9 ± 0.4721
pull
Entries 45
Mean −108
Std Dev 0
pull1D
Entries 45
Mean 0.04088
Std Dev 0.6799

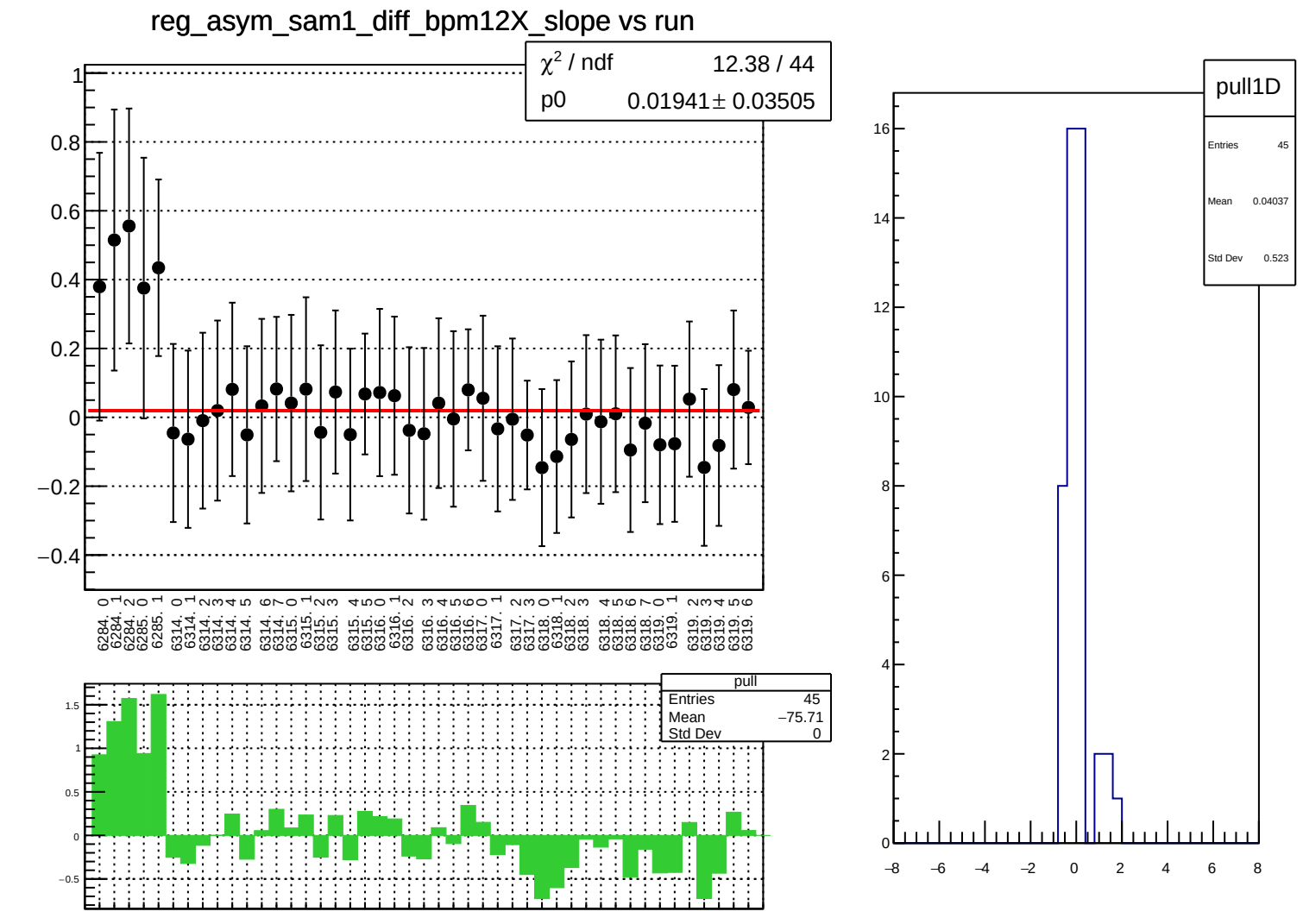

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 6.282 / 44
p0 −54.73 ± 0.3451
−50
−52
−54
−56
−58
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −13.72
Std Dev 15.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.01715
Std Dev 0.3732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

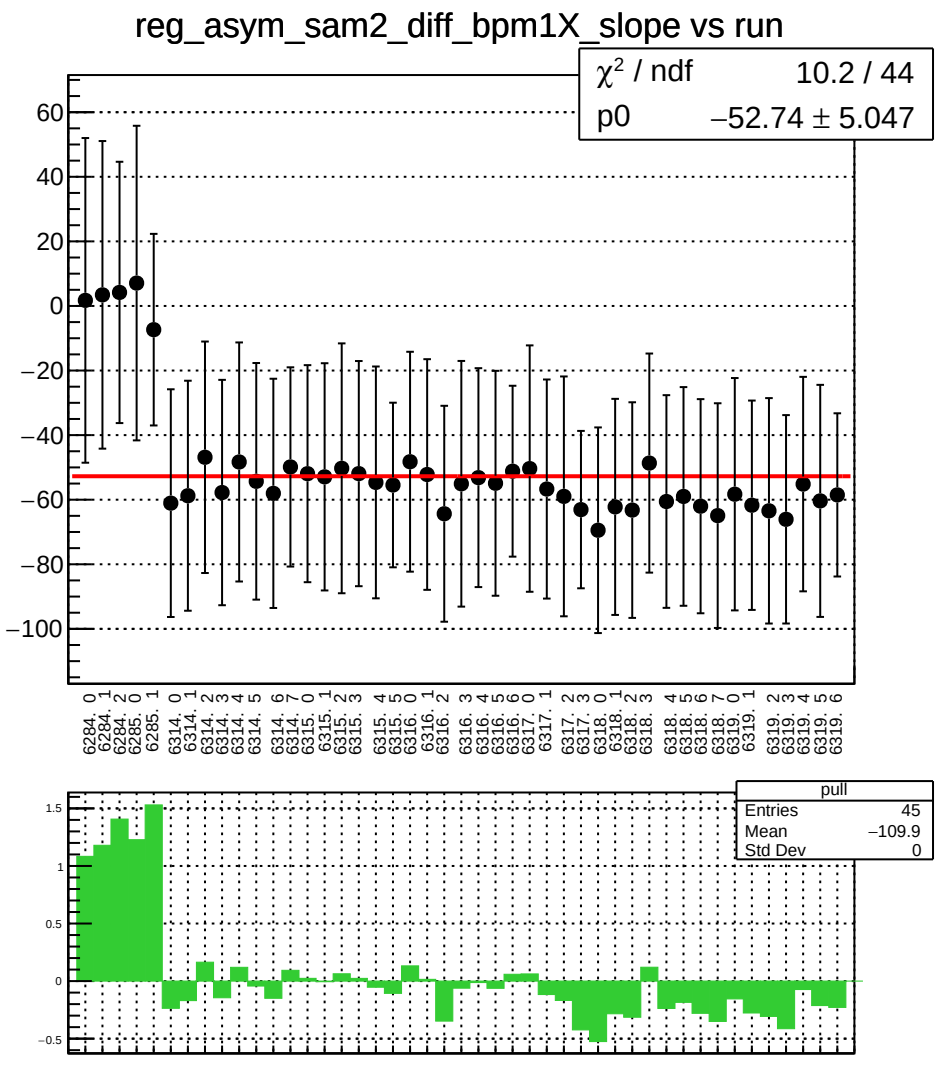

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 18.54 / 44
p0 −8.163 ± 0.4839
pull
Entries 45
Mean −108.8
Std Dev 0

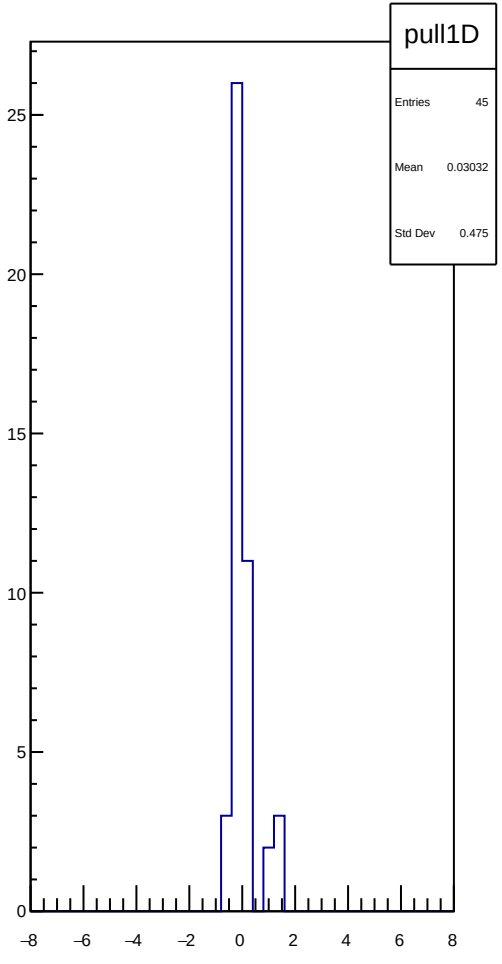

pull1D
Entries 45
Mean −0.03972
Std Dev 0.6406

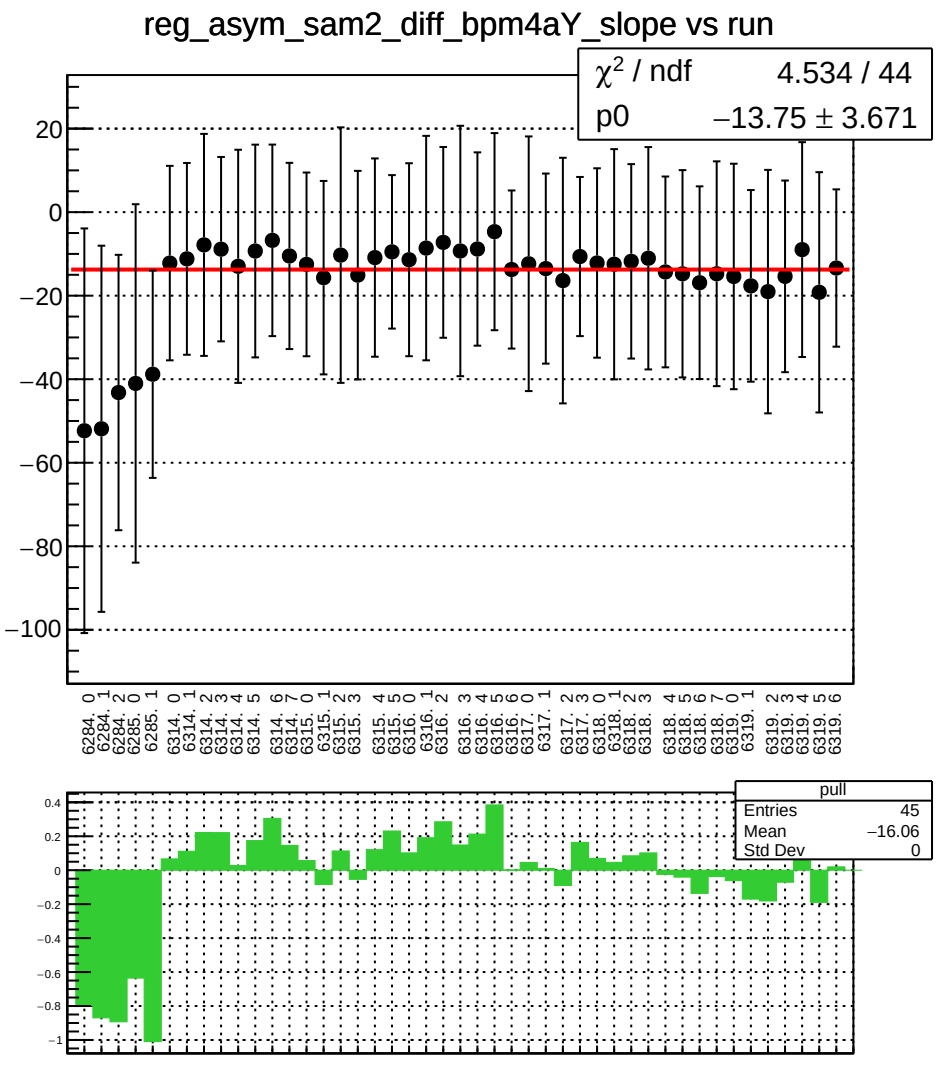

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 10.64 / 44
p0 13.52 ± 0.4251
pull
Entries 45
Mean 108.2
Std Dev 0

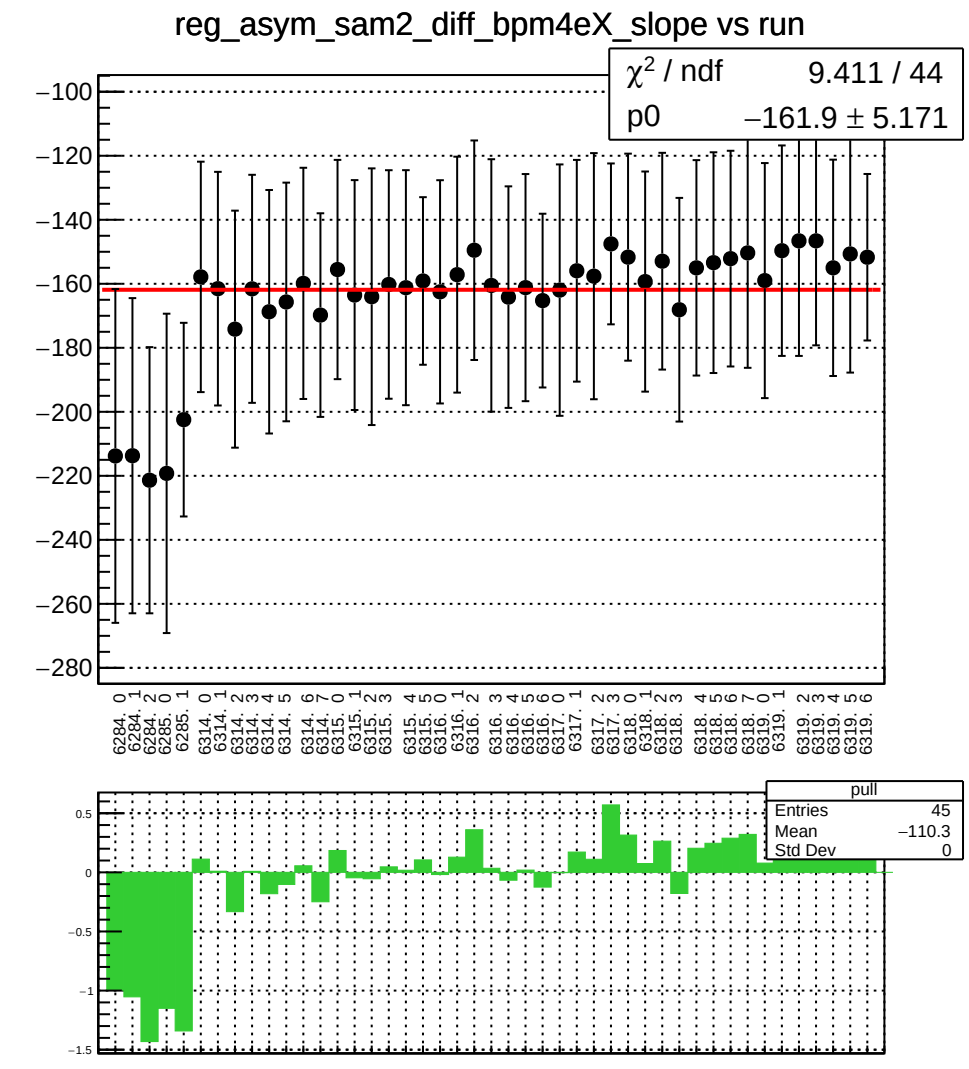

pull1D
Entries 45
Mean 0.011
Std Dev 0.486

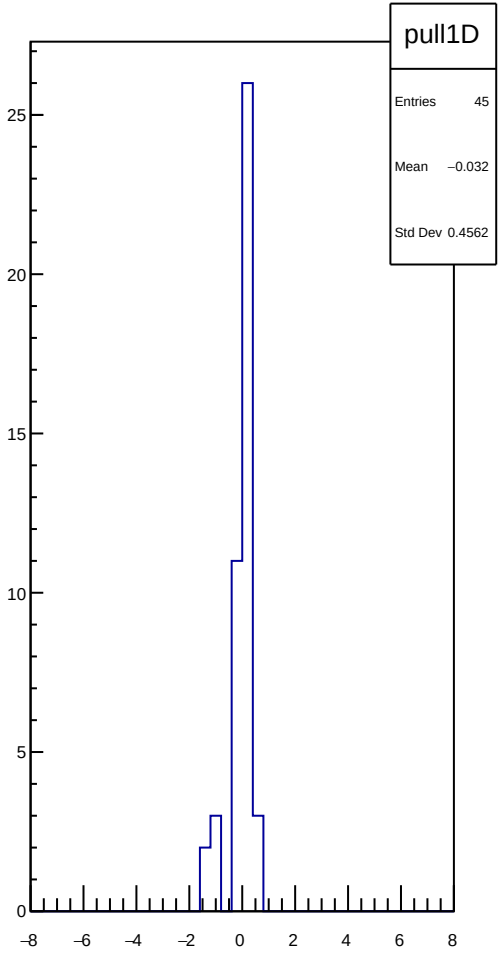

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 12.38 / 44
p0 0.01941 ± 0.03505
pull
Entries 45
Mean −75.71
Std Dev 0
pull1D
Entries 45
Mean 0.04037
Std Dev 0.523

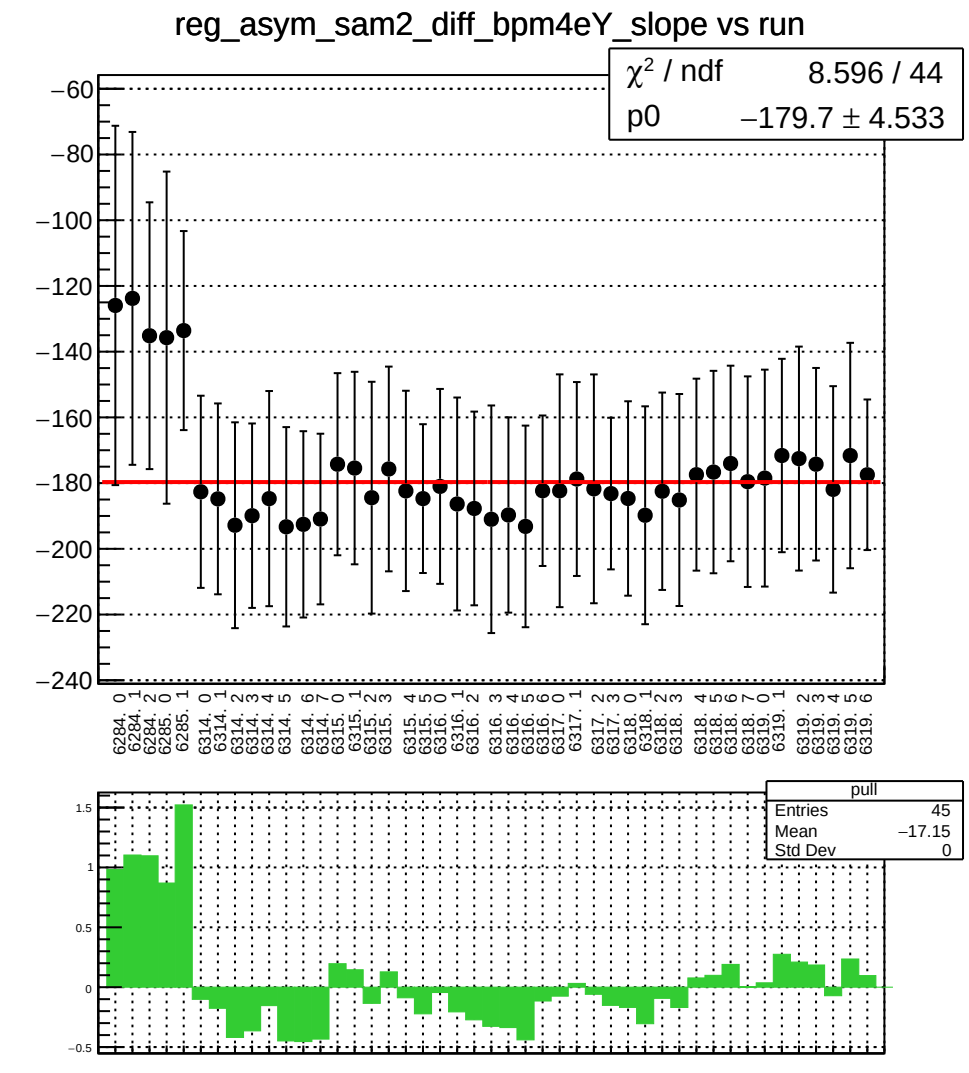

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 10.2 / 44
p0 −52.74 ± 5.047
pull
Entries 45
Mean −109.9
Std Dev 0

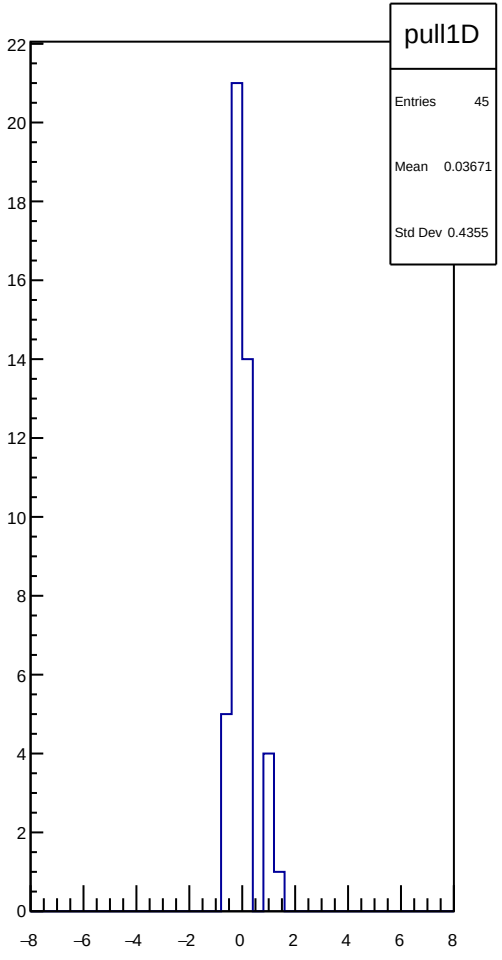

pull1D
Entries 45
Mean 0.03032
Std Dev 0.475

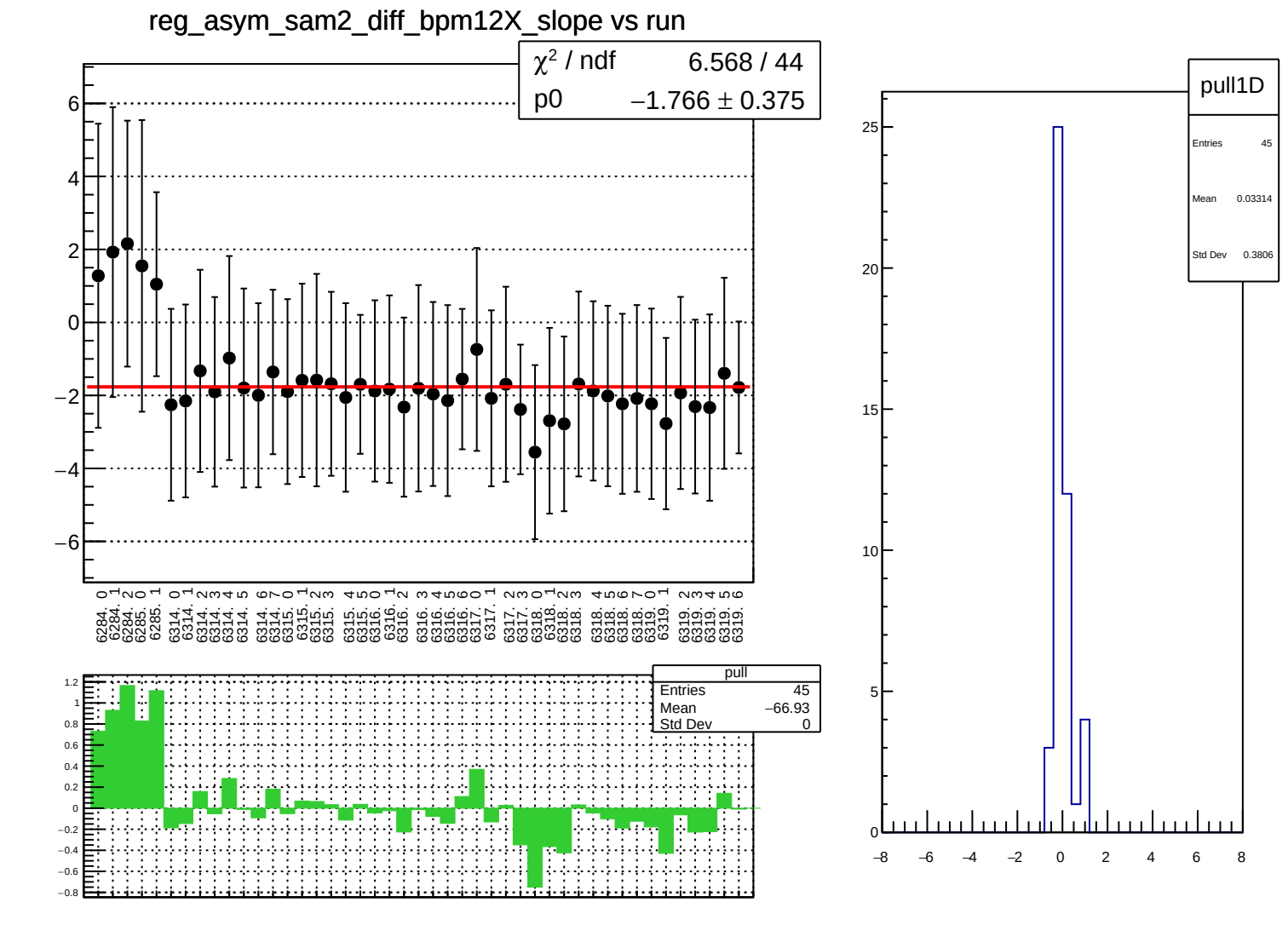

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.534 / 44
p0 −13.75 ± 3.671
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −16.06
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.03321
Std Dev 0.3157
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

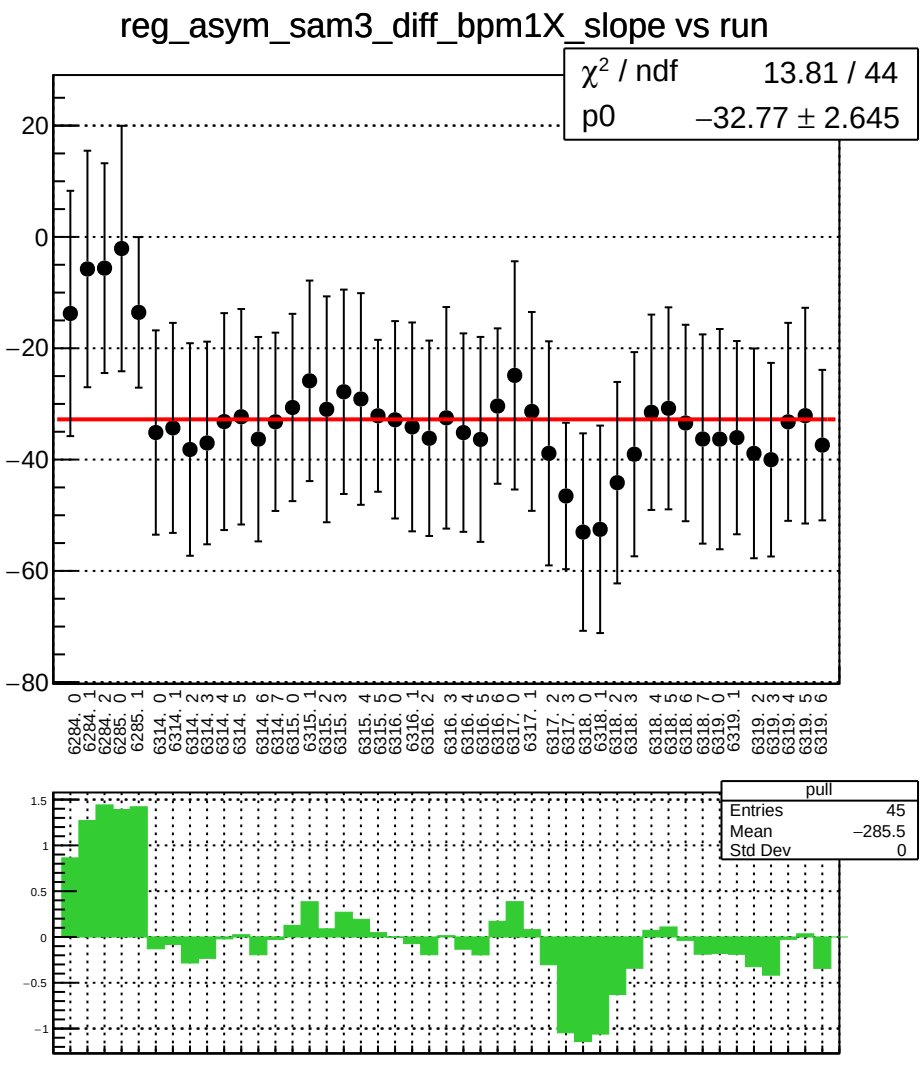

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 9.411 / 44
p0 −161.9 ± 5.171
pull
Entries 45
Mean −110.3
Std Dev 0

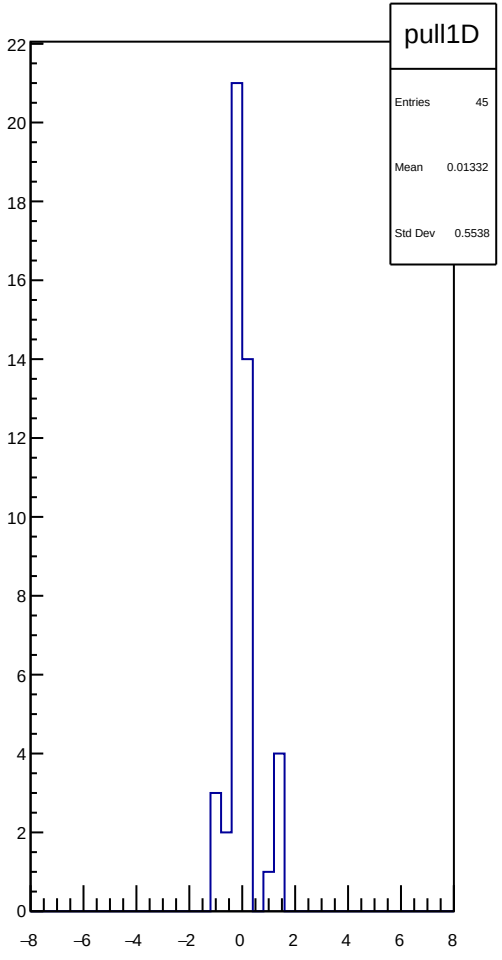

pull1D
Entries 45
Mean −0.032
Std Dev 0.4562

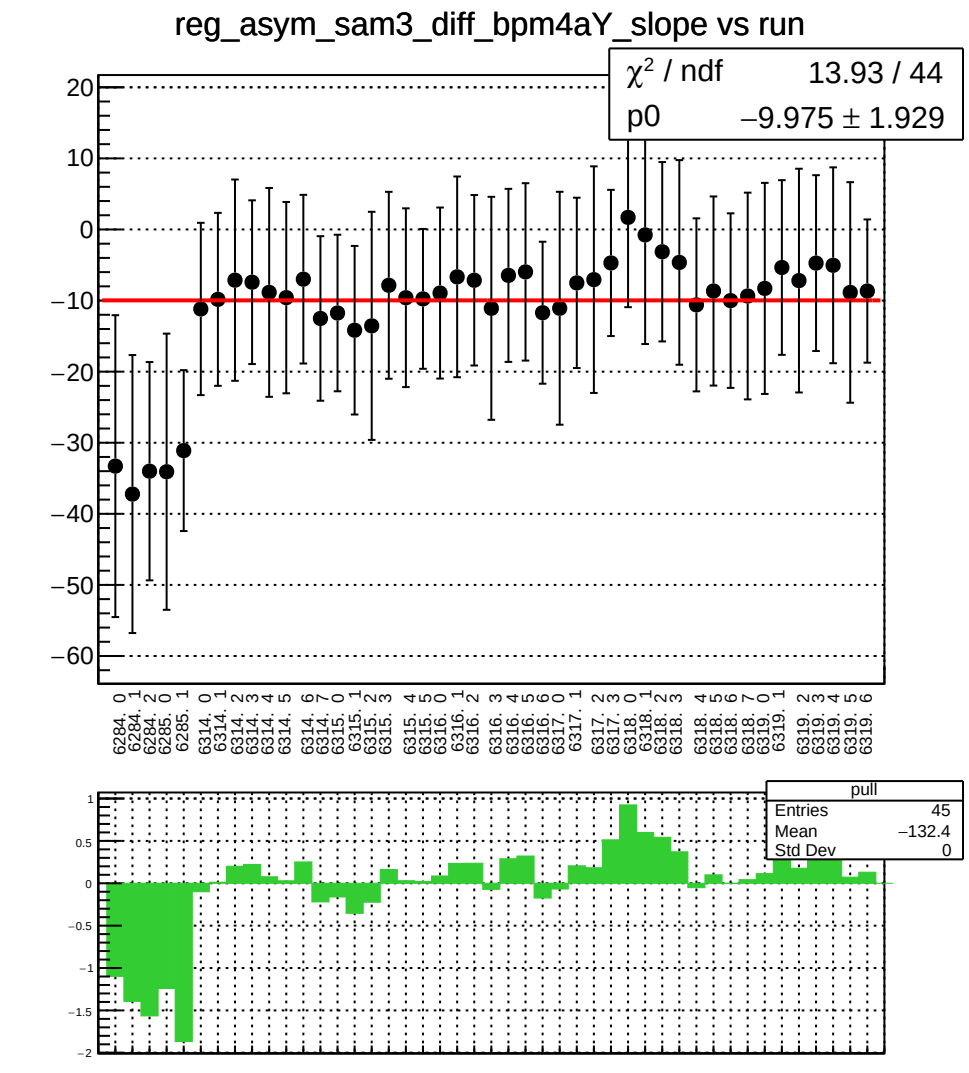

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.596 / 44
p0 −179.7 ± 4.533
pull
Entries 45
Mean −17.15
Std Dev 0

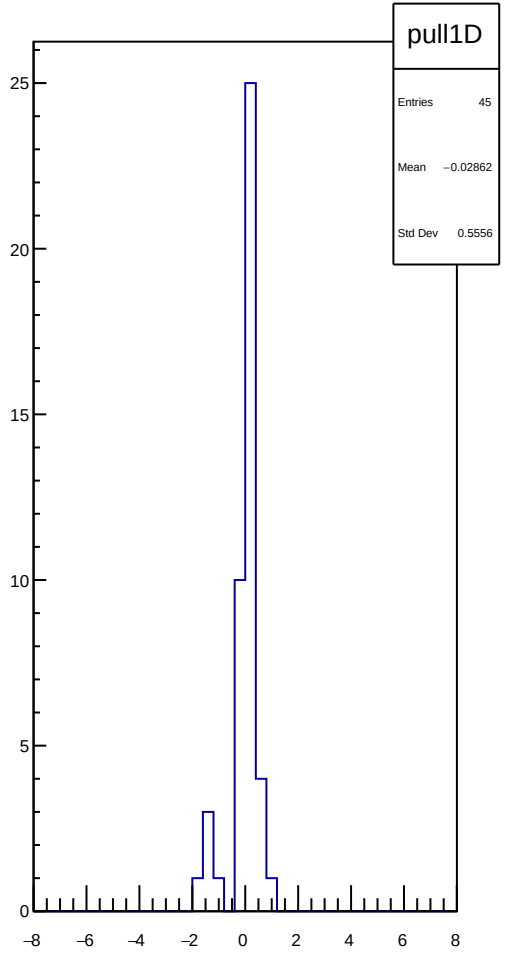

pull1D
Entries 45
Mean 0.03671
Std Dev 0.4355

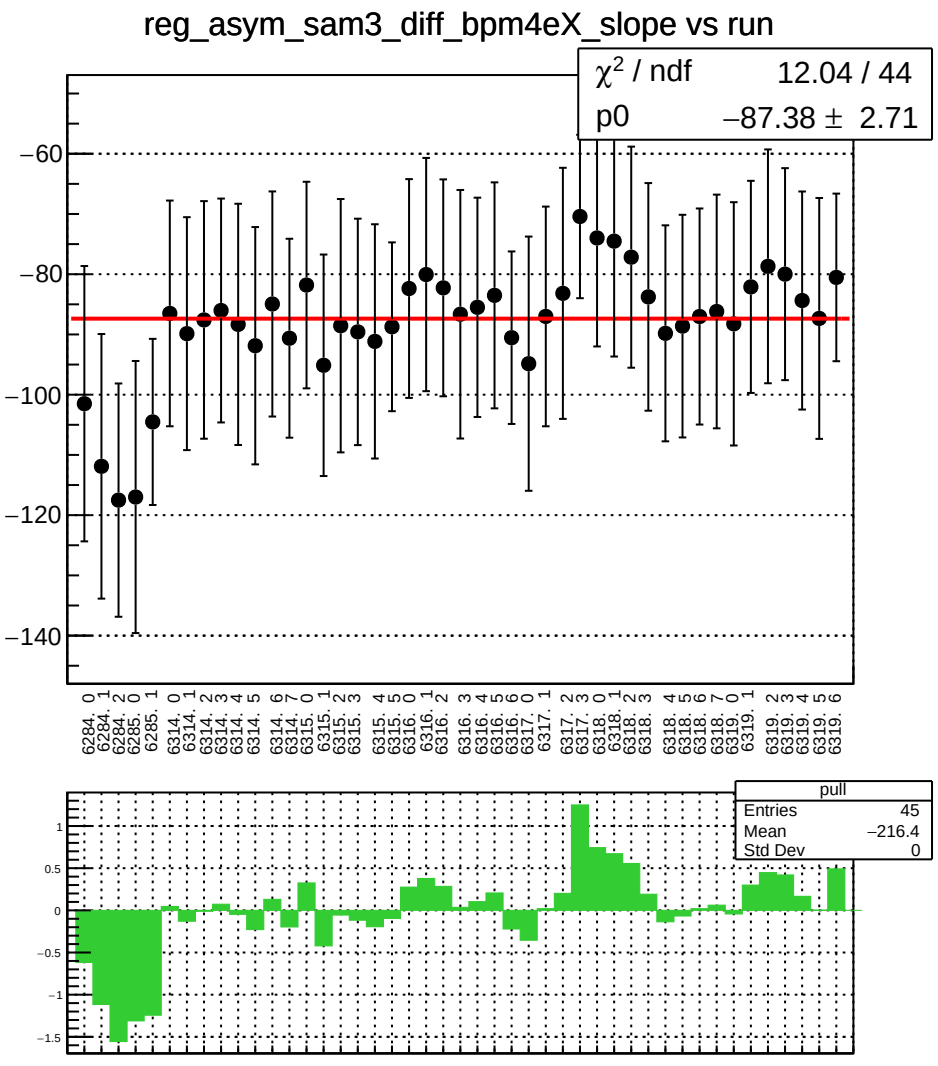

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.568 / 44
p0 −1.766 ± 0.375
pull
Entries 45
Mean −66.93
Std Dev 0
pull1D
Entries 45
Mean 0.03314
Std Dev 0.3806

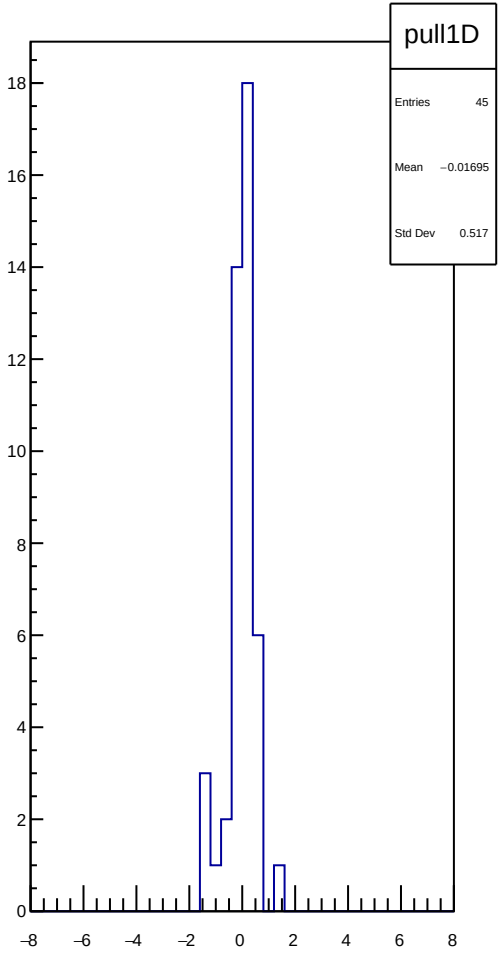

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 13.81 / 44
p0 −32.77 ± 2.645
pull
Entries 45
Mean −285.5
Std Dev 0

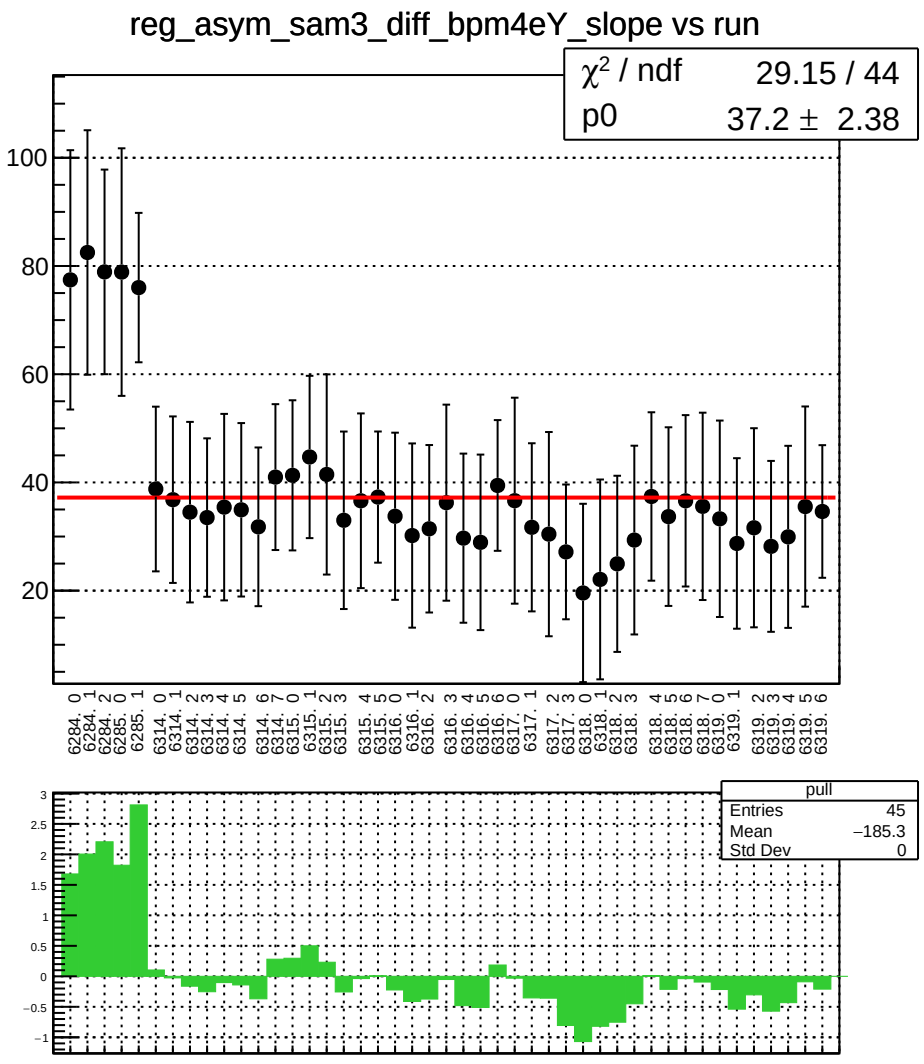

pull1D
Entries 45
Mean 0.01332
Std Dev 0.5538

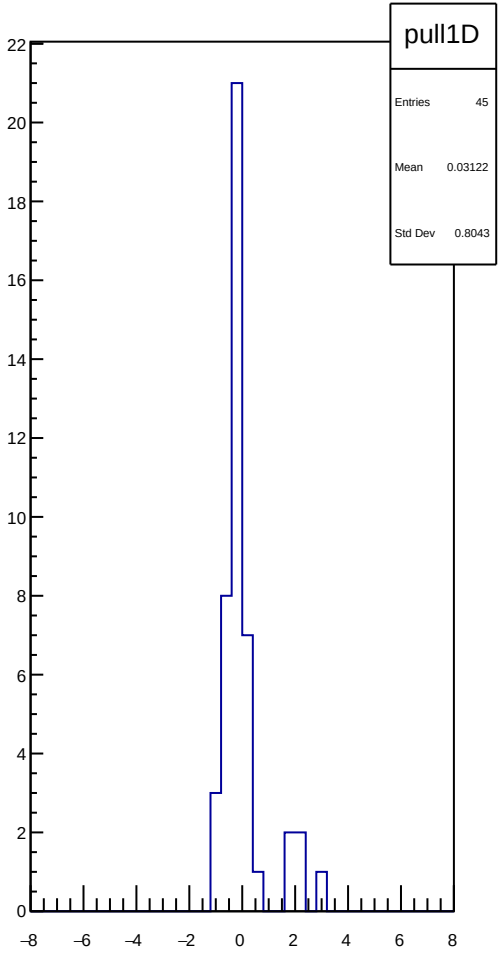

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 13.93 / 44
p0 −9.975 ± 1.929
pull
Entries 45
Mean −132.4
Std Dev 0

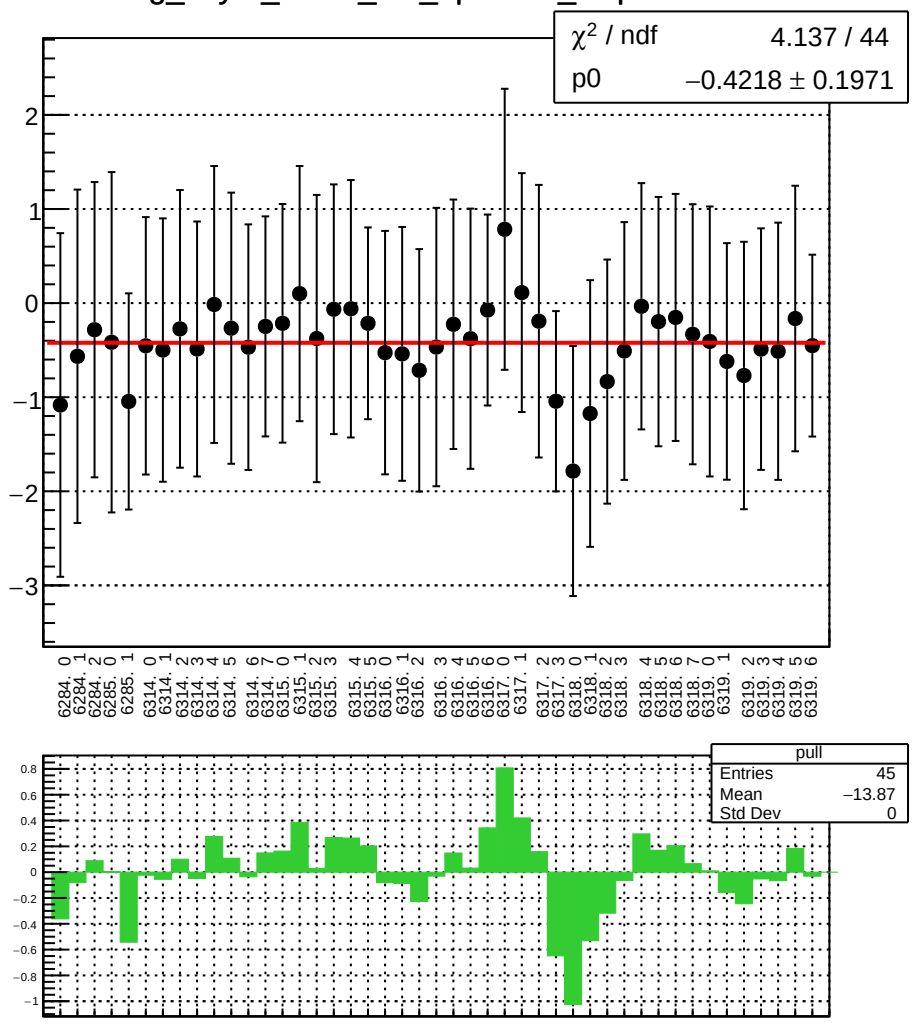

pull1D
Entries 45
Mean −0.02862
Std Dev 0.5556

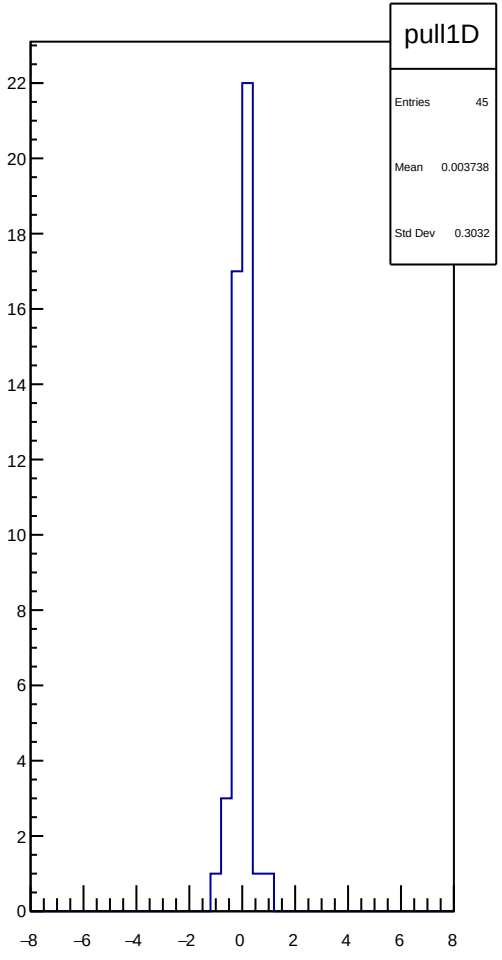

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 12.04 / 44
p0 −87.38 ± 2.71
−60
−80
−100
−120
−140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −216.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

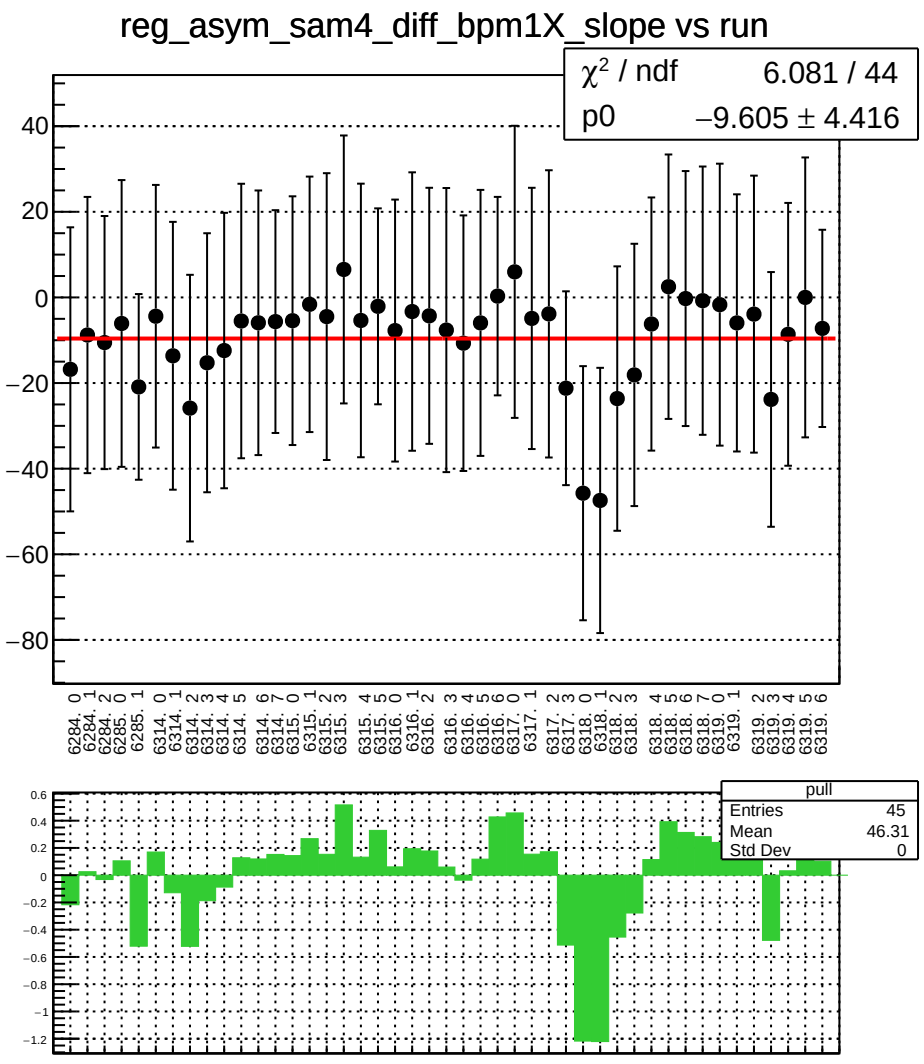

pull1D
Entries 45
Mean −0.01695
Std Dev 0.517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

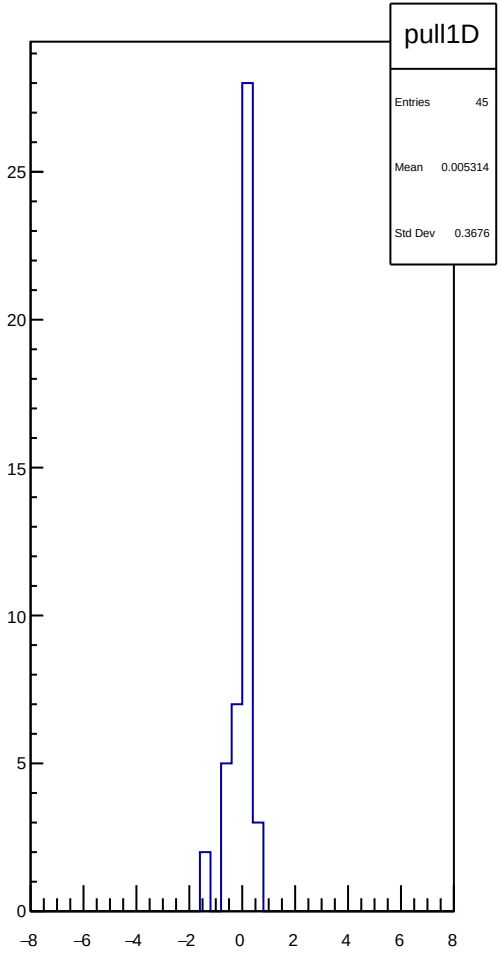

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 29.15 / 44
p0 37.2 ± 2.38
pull
Entries 45
Mean −185.3
Std Dev 0

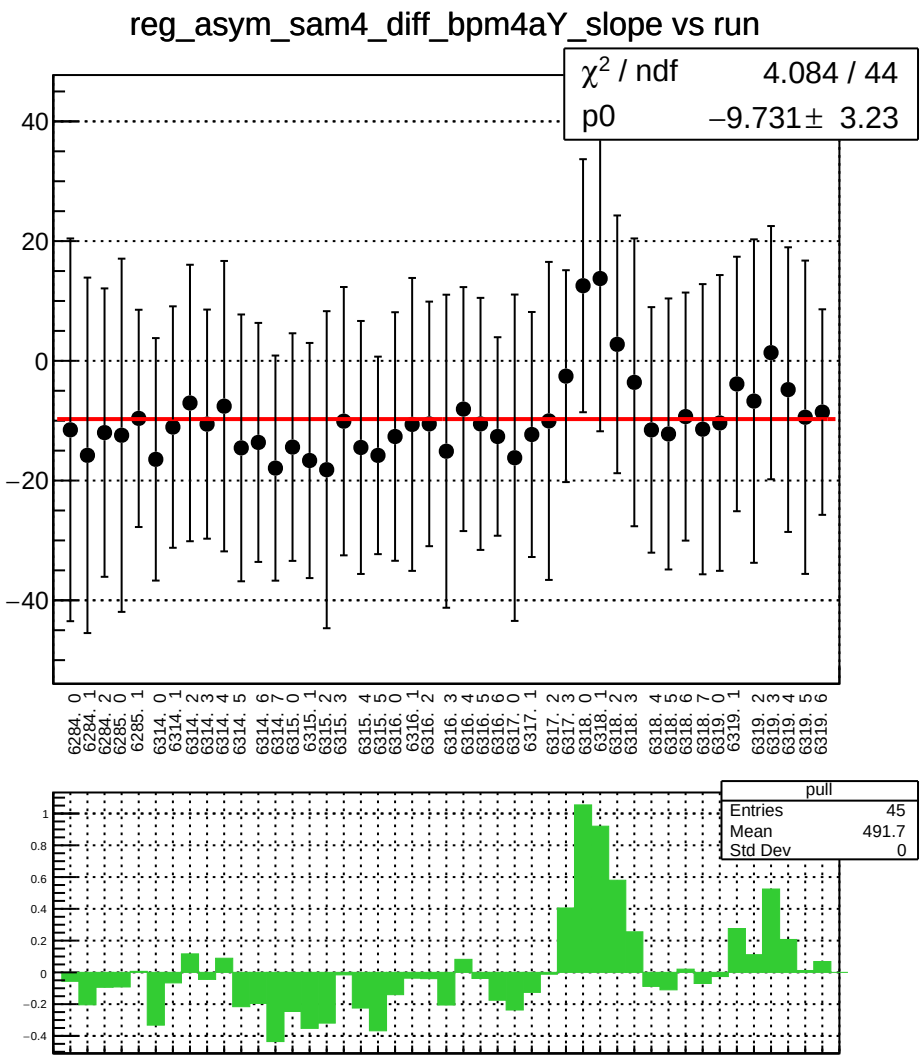

pull1D
Entries 45
Mean 0.03122
Std Dev 0.8043

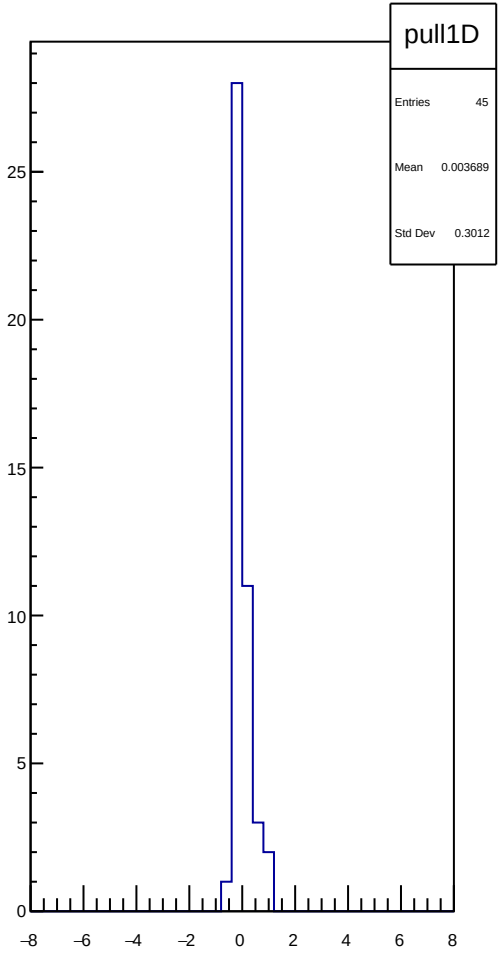

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.137 / 44
p0 −0.4218 ± 0.1971
pull
Entries 45
Mean −13.87
Std Dev 0

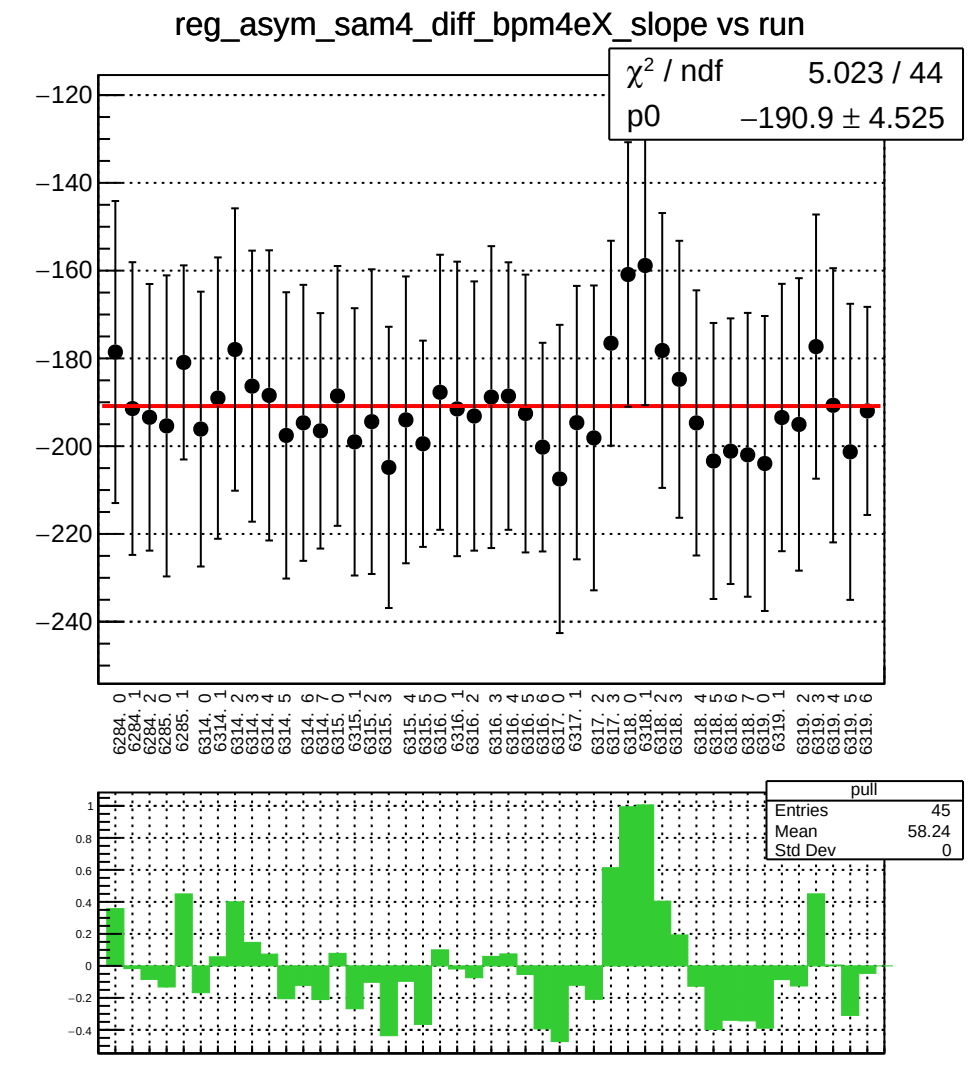

pull1D
Entries 45
Mean 0.003738
Std Dev 0.3032

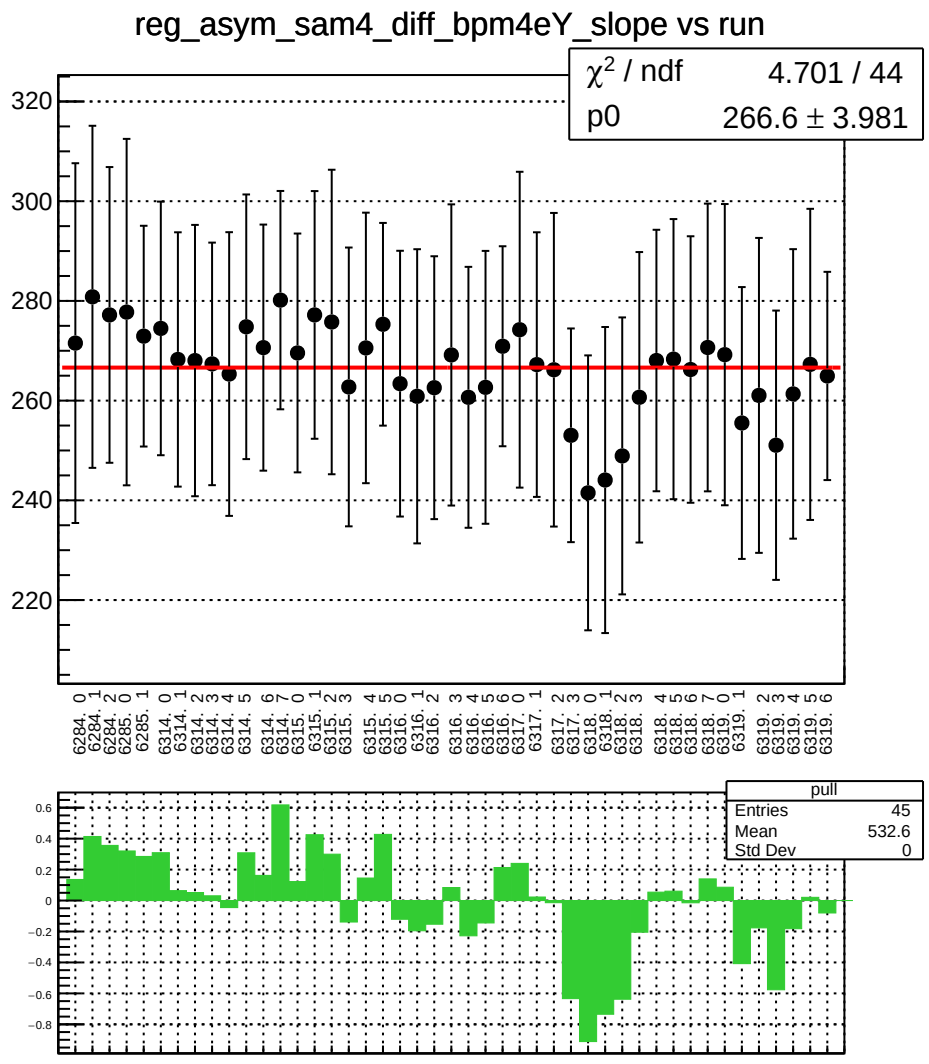

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 6.081 / 44
p0 −9.605 ± 4.416
pull
Entries 45
Mean 46.31
Std Dev 0

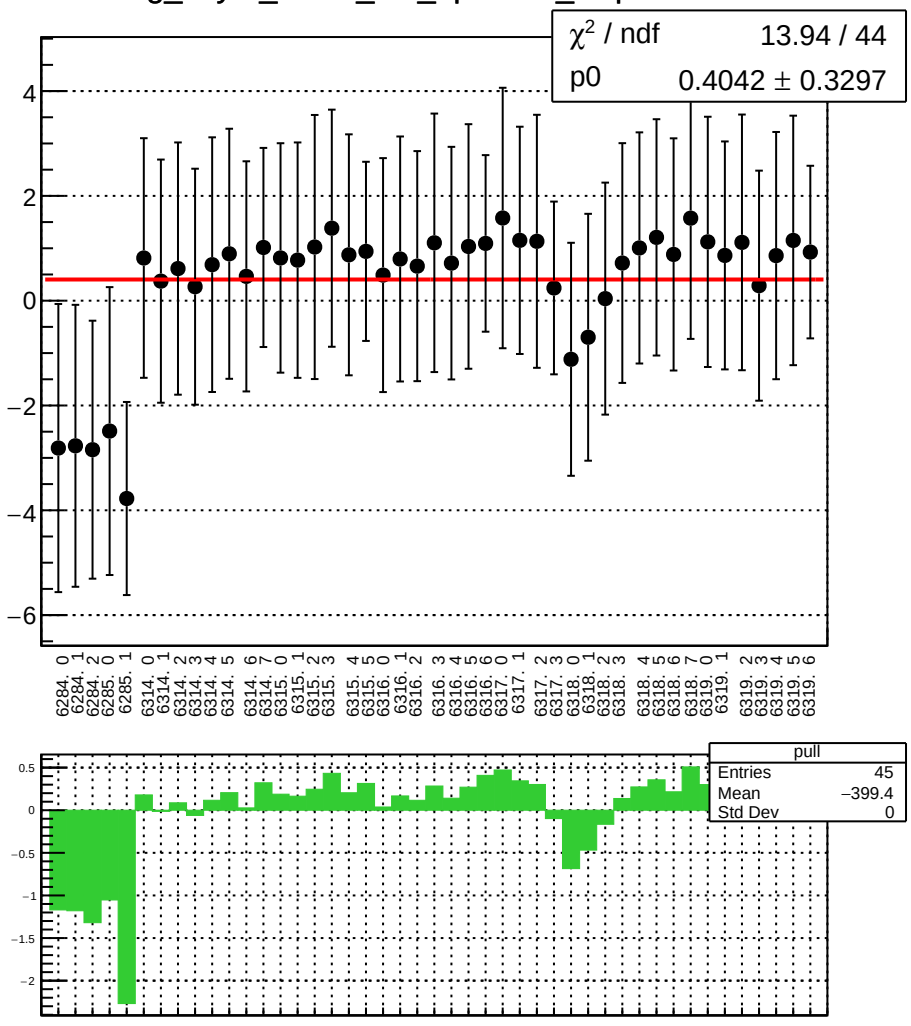

pull1D
Entries 45
Mean 0.005314
Std Dev 0.3676

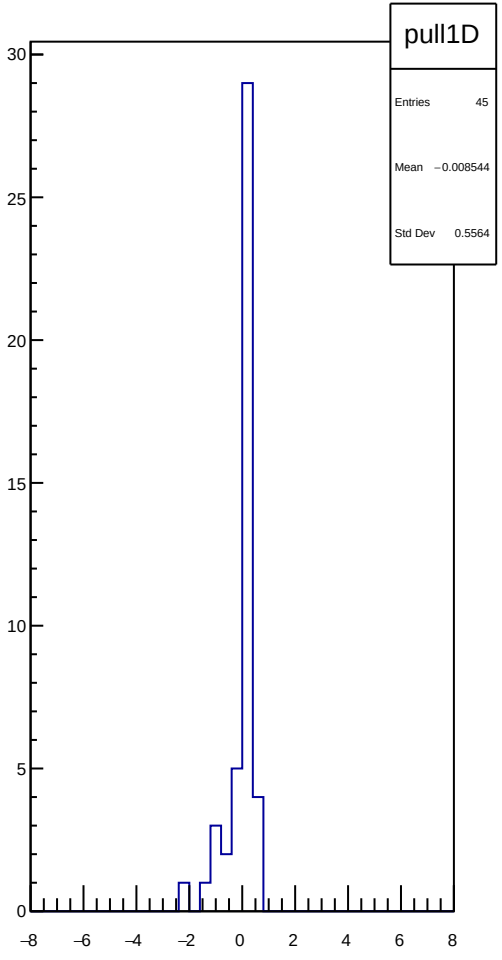

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.084 / 44
p0 −9.731 ± 3.23
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 491.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

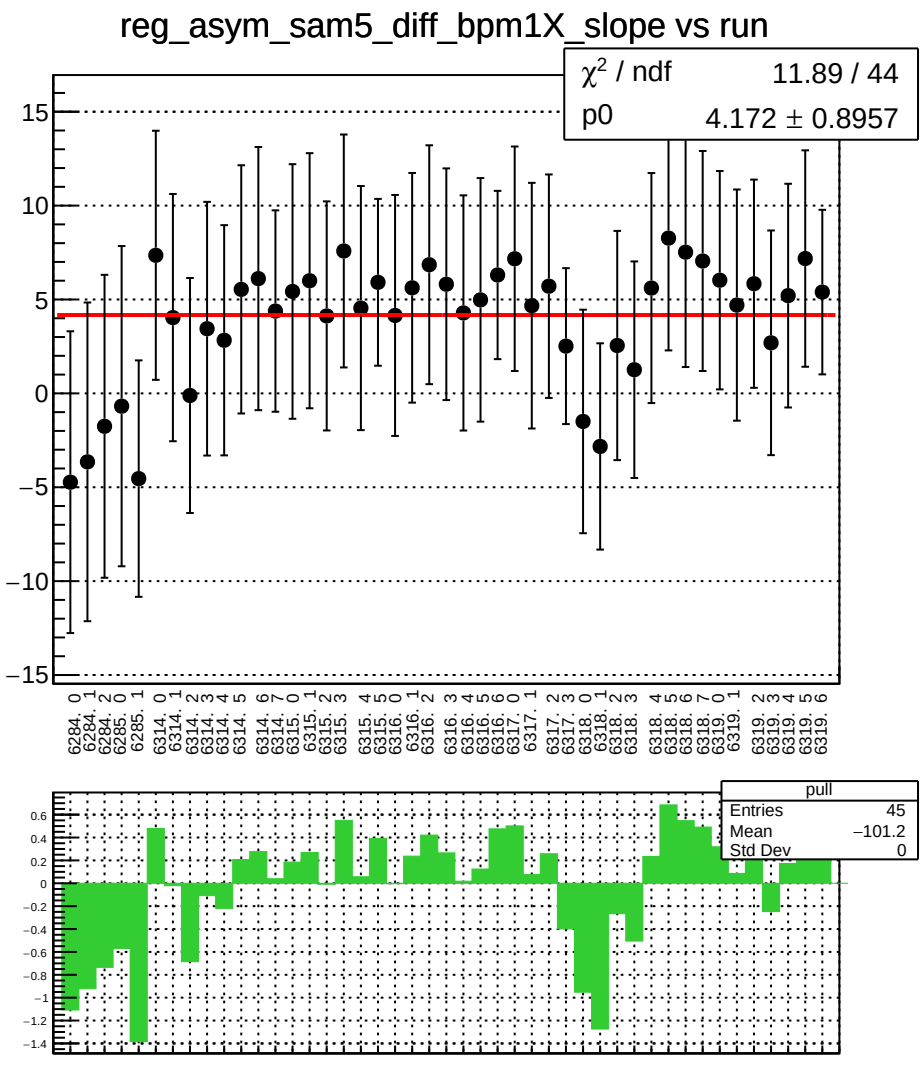

pull1D
Entries 45
Mean 0.003689
Std Dev 0.3012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

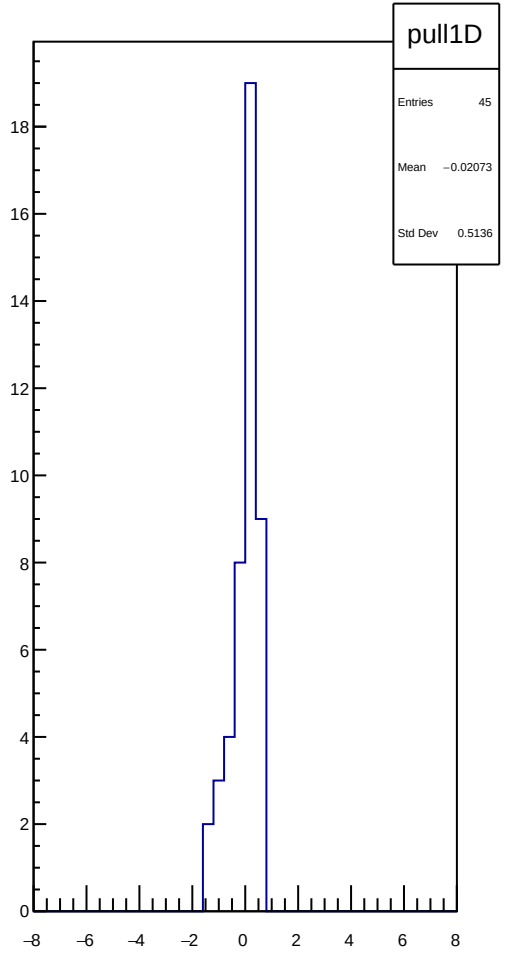

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.023 / 44
p0 −190.9 ± 4.525
−120
−140
−160
−180
−200
−220
−240
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 58.24
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.005571
Std Dev 0.334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

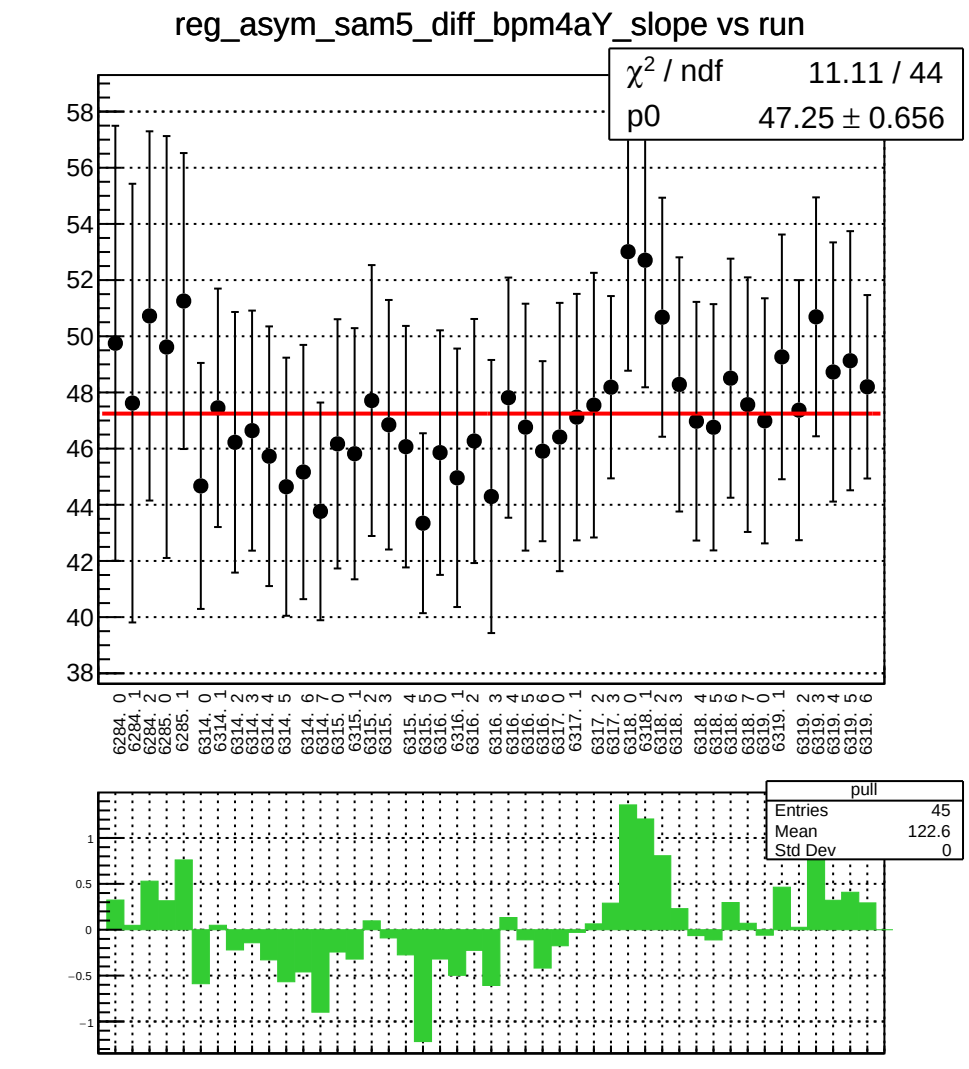

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.701 / 44
p0 266.6 ± 3.981
320
300
280
260
240
220
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 532.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.004489
Std Dev 0.3232
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

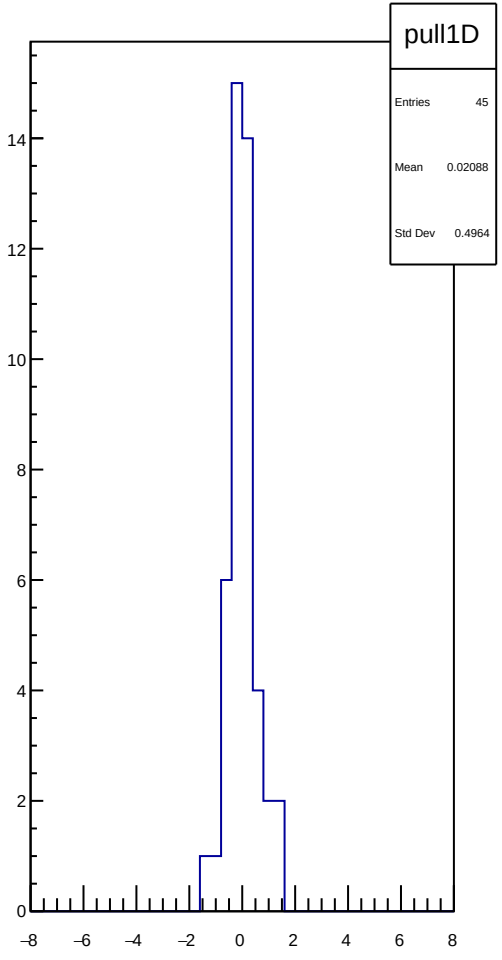

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 13.94 / 44
p0 0.4042 ± 0.3297
pull
Entries 45
Mean −399.4
Std Dev 0

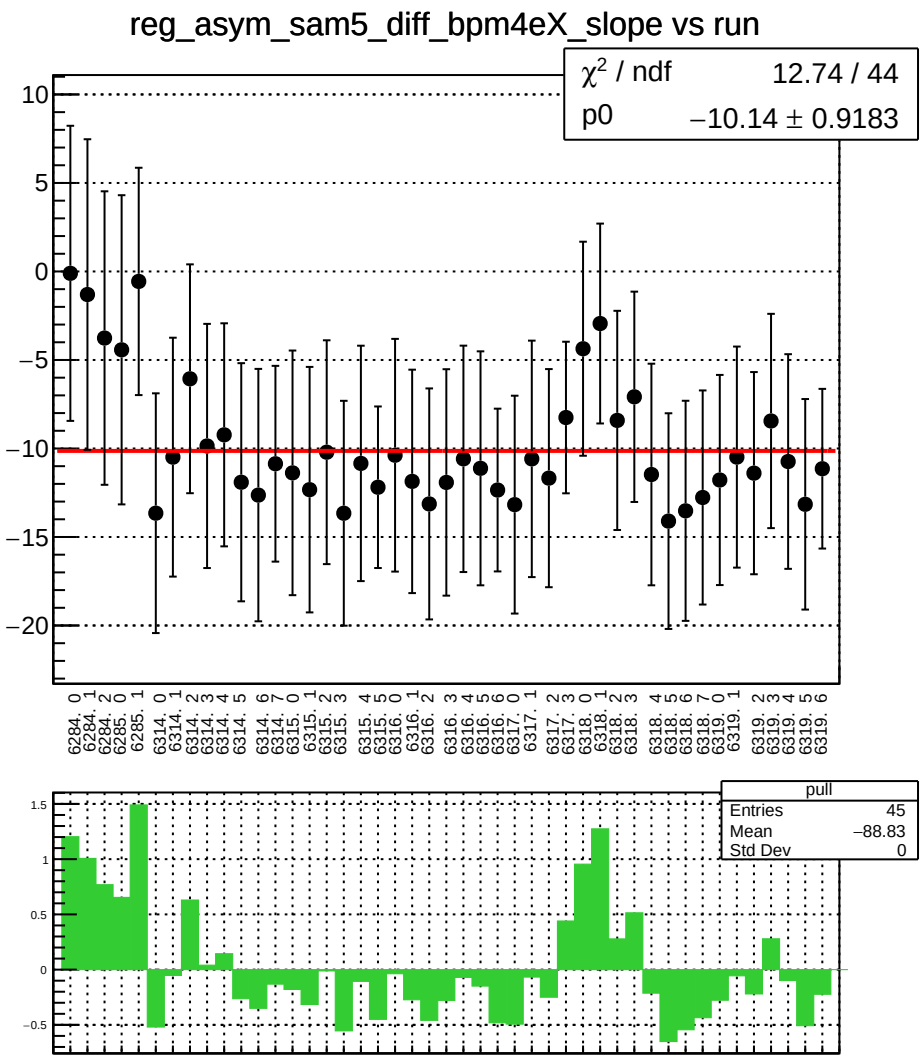

pull1D
Entries 45
Mean −0.008544
Std Dev 0.5564

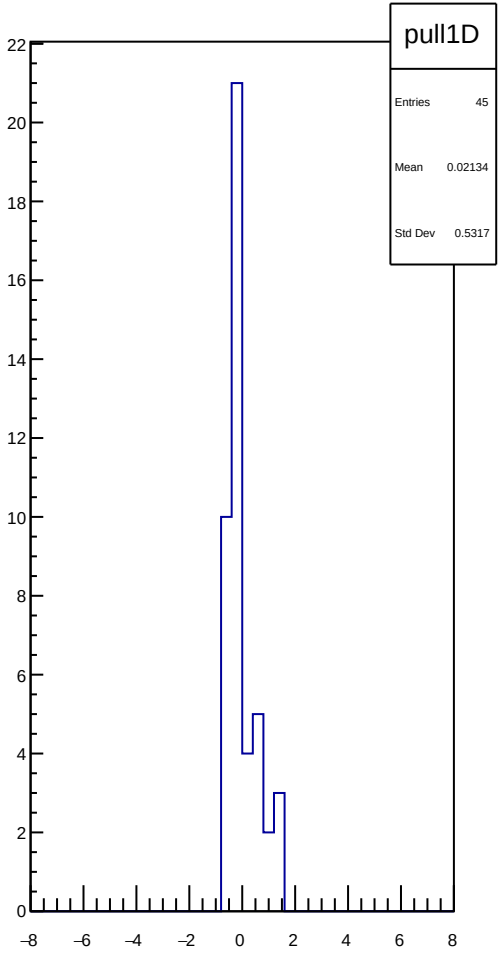

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 11.89 / 44
p0 4.172 ± 0.8957
pull
Entries 45
Mean −101.2
Std Dev 0

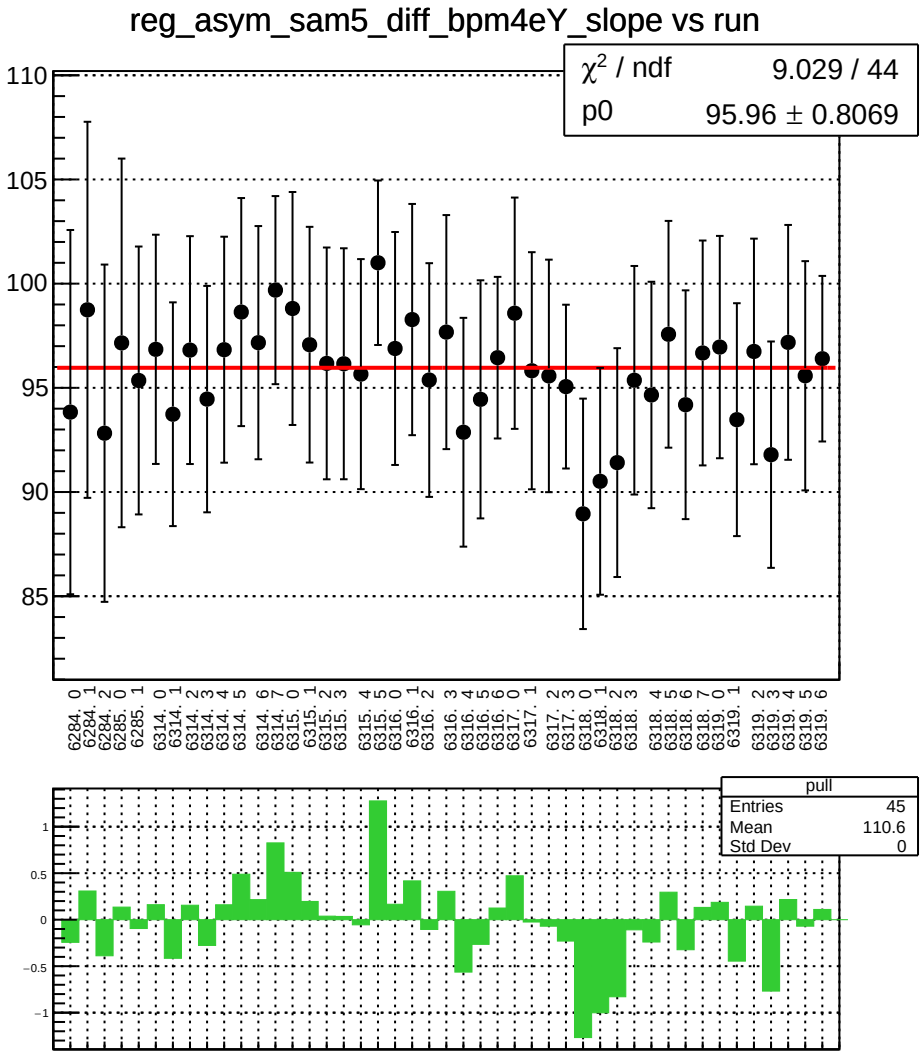

pull1D
Entries 45
Mean −0.02073
Std Dev 0.5136

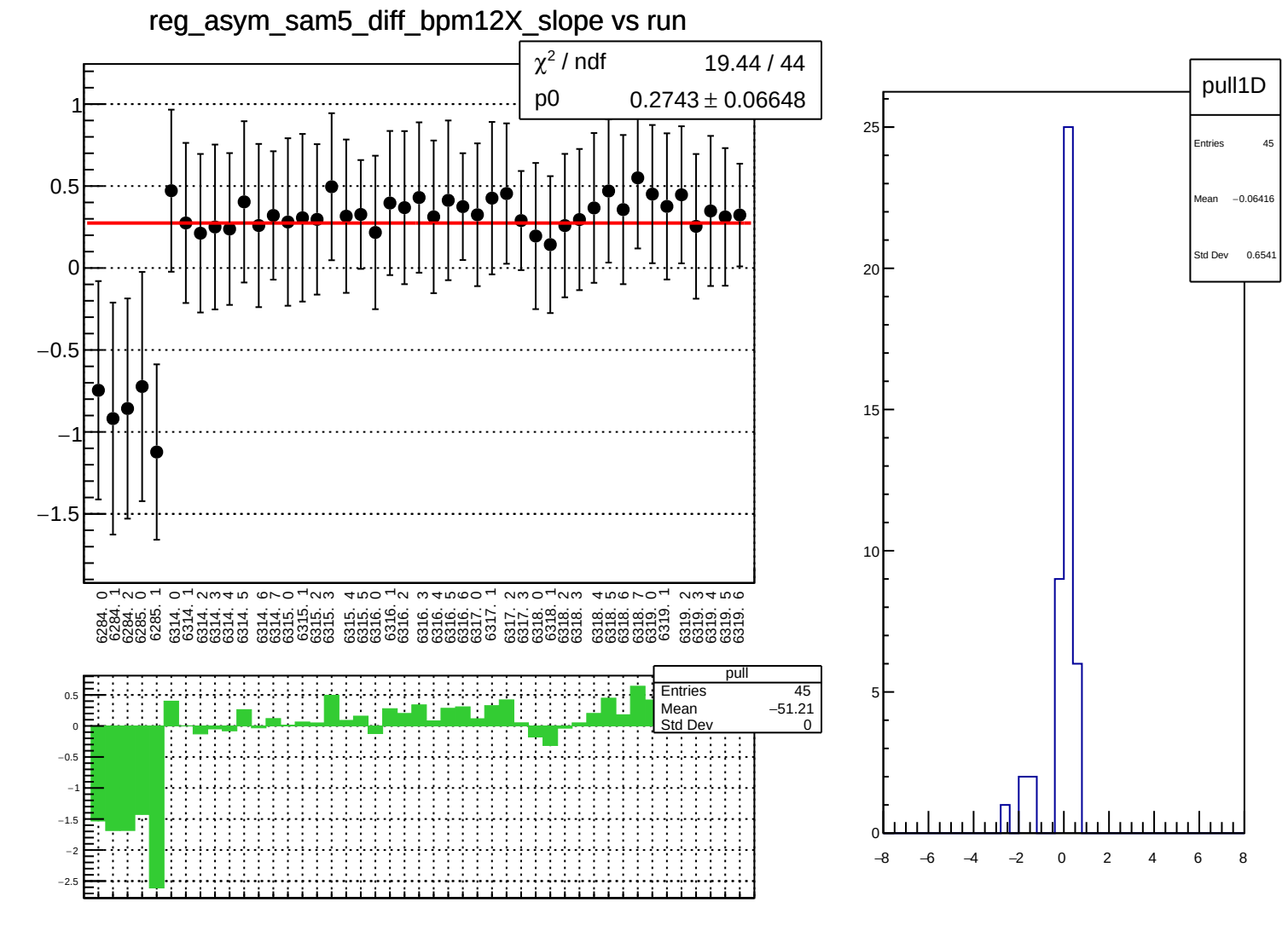

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 11.11 / 44
p0 47.25 ± 0.656
pull
Entries 45
Mean 122.6
Std Dev 0

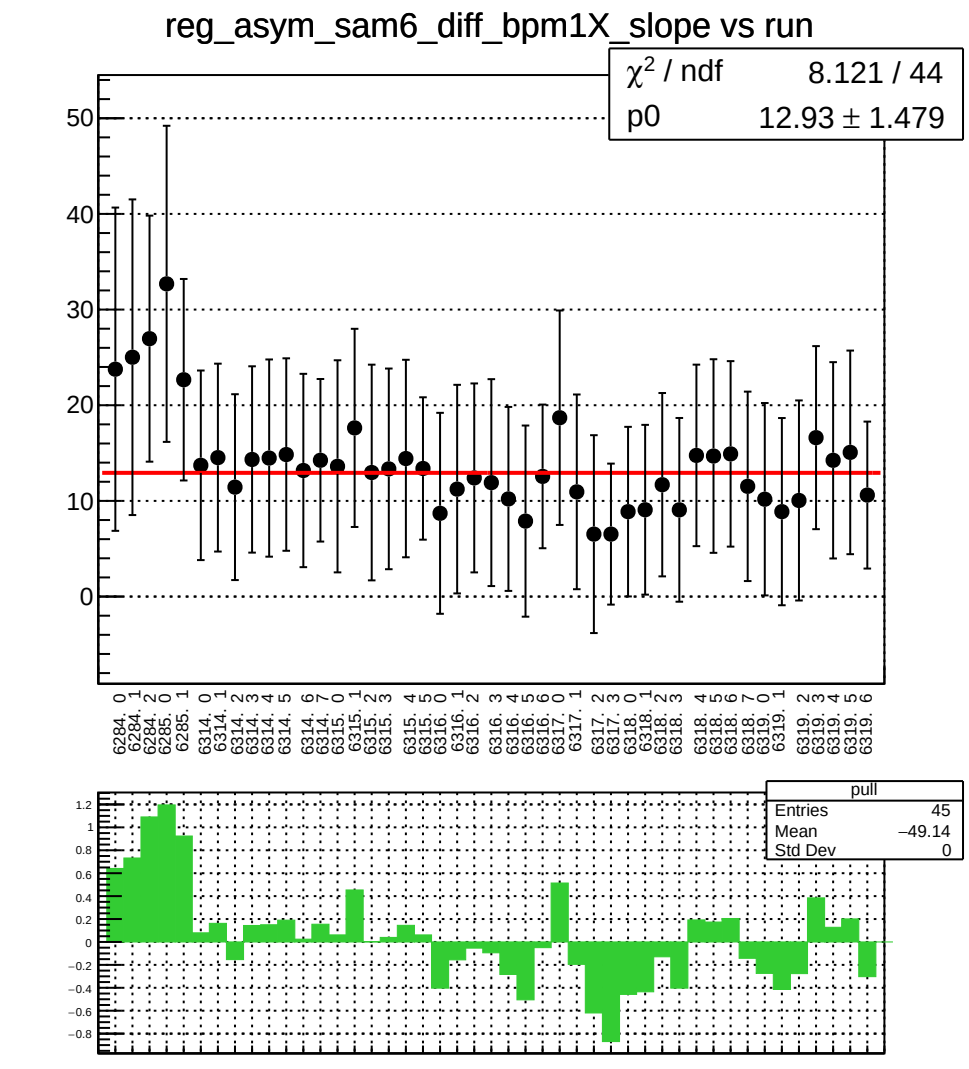

pull1D
Entries 45
Mean 0.02088
Std Dev 0.4964

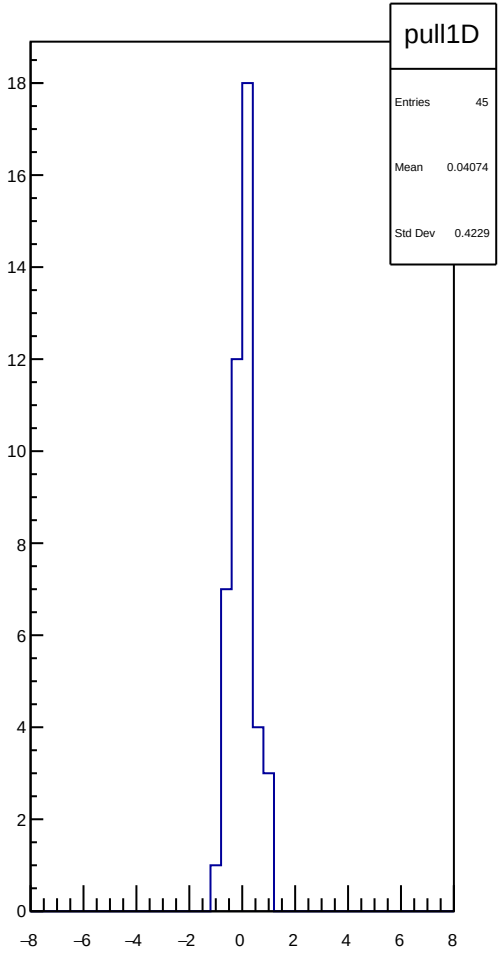

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 12.74 / 44
p0 −10.14 ± 0.9183
pull
Entries 45
Mean −88.83
Std Dev 0

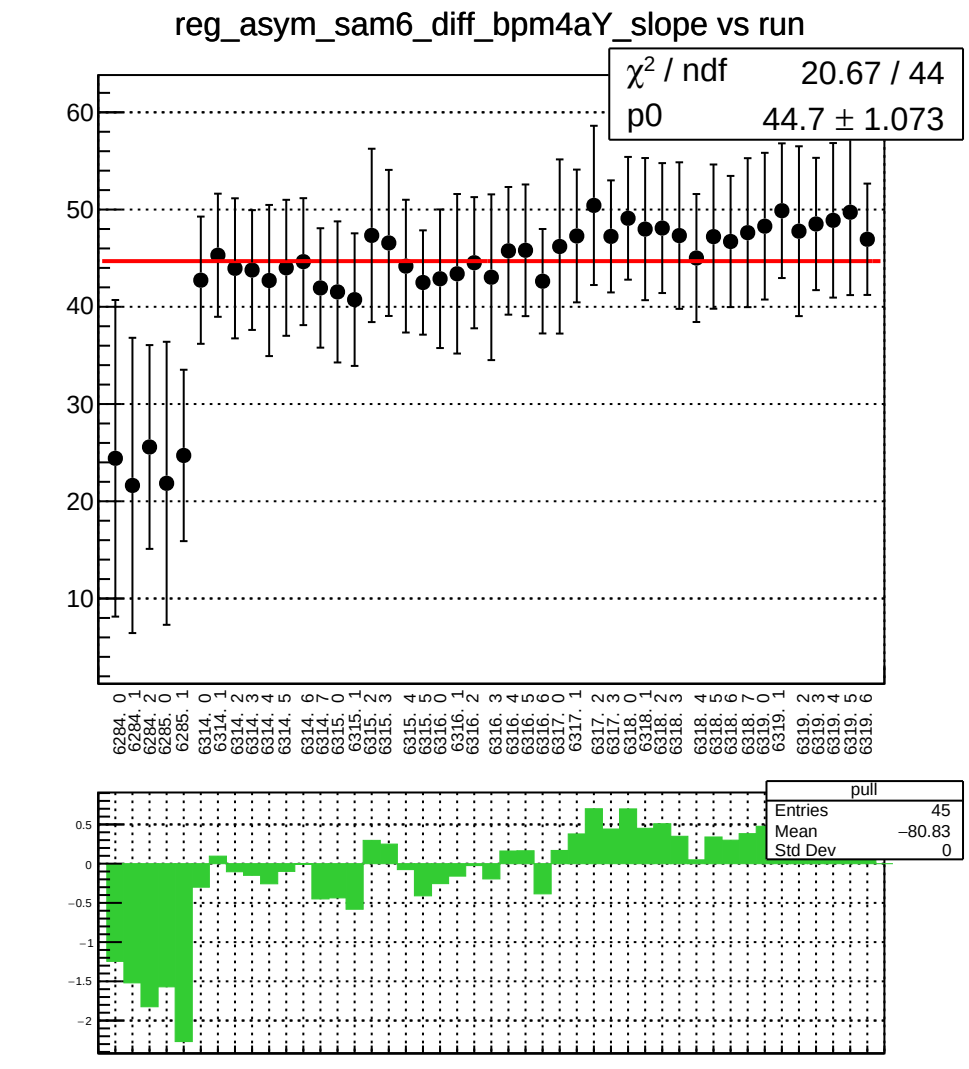

pull1D
Entries 45
Mean 0.02134
Std Dev 0.5317

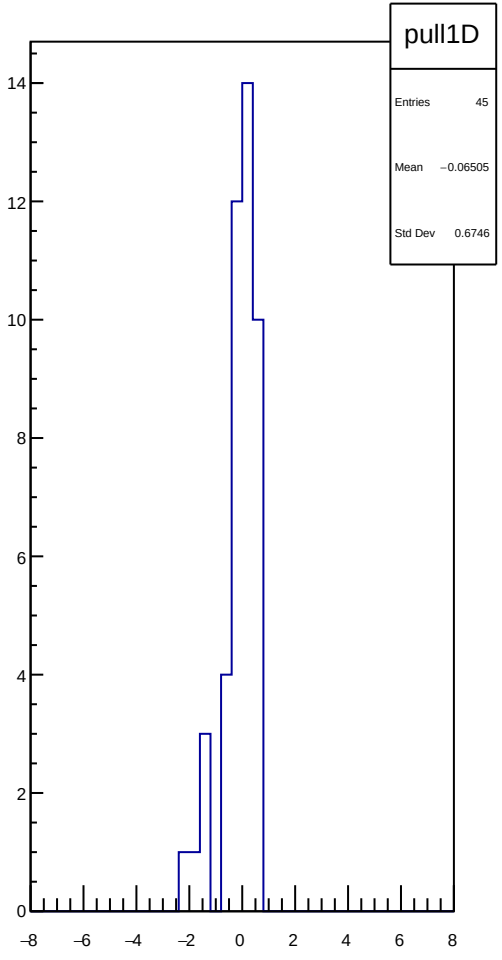

reg_asym_sam5_diff_bpm4eY_slope vs run
χ^2 / ndf 9.029 / 44
p0 95.96 ± 0.8069
110
105
100
95
90
85
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 110.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01577
Std Dev 0.4477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

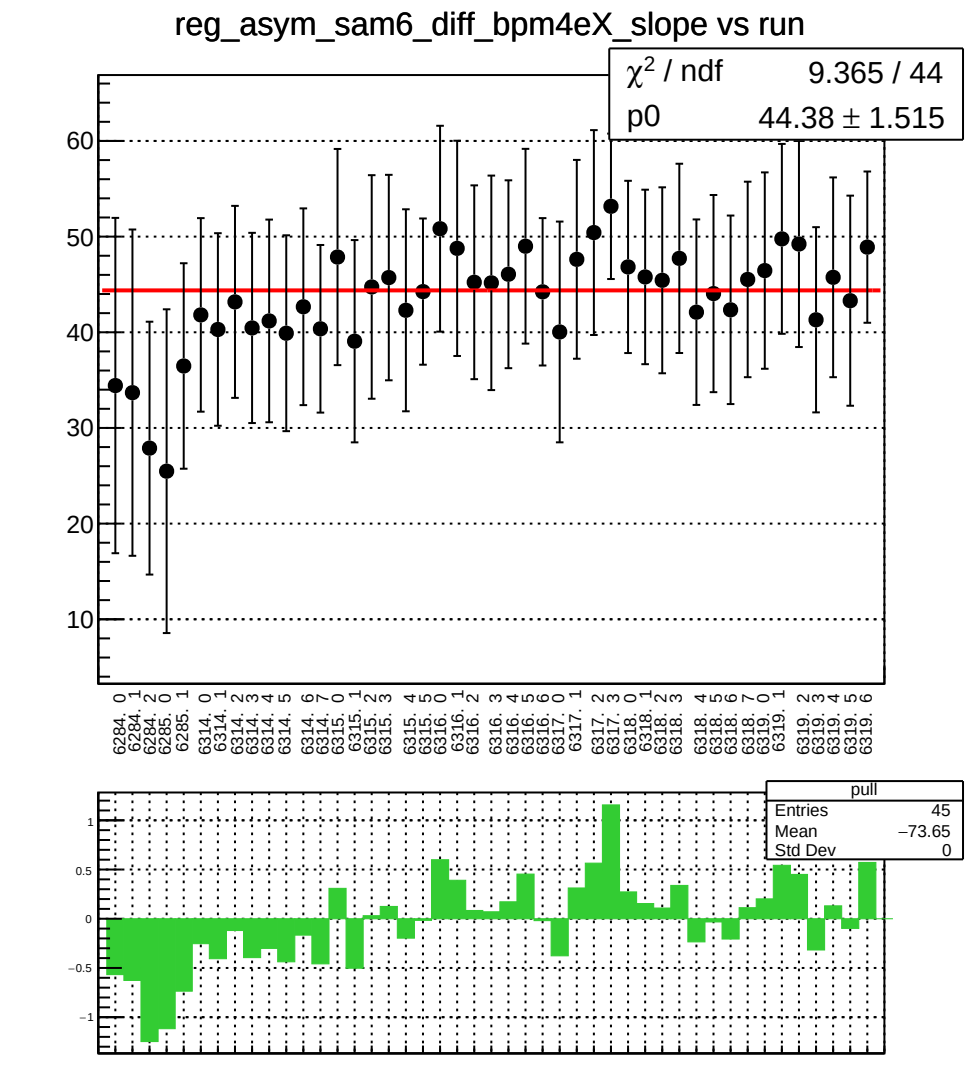

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.44 / 44
p0 0.2743 ± 0.06648
pull
Entries 45
Mean −51.21
Std Dev 0
pull1D
Entries 45
Mean −0.06416
Std Dev 0.6541

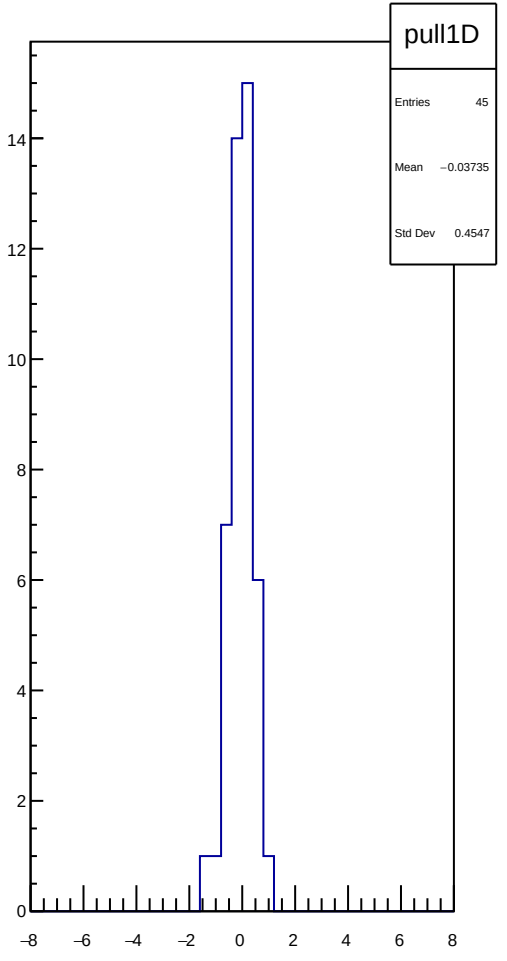

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 8.121 / 44
p0 12.93 ± 1.479
pull
Entries 45
Mean −49.14
Std Dev 0

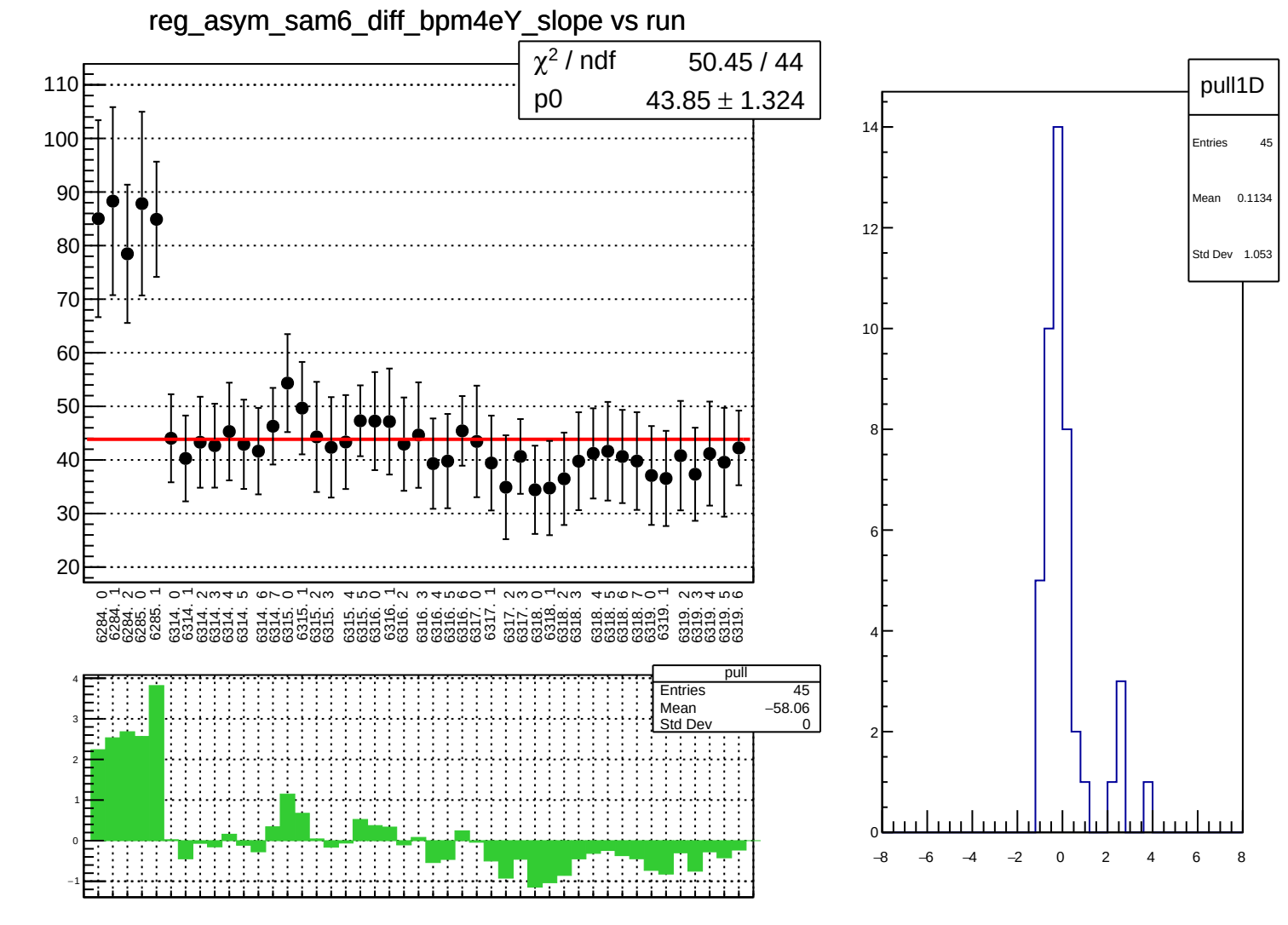

pull1D
Entries 45
Mean 0.04074
Std Dev 0.4229

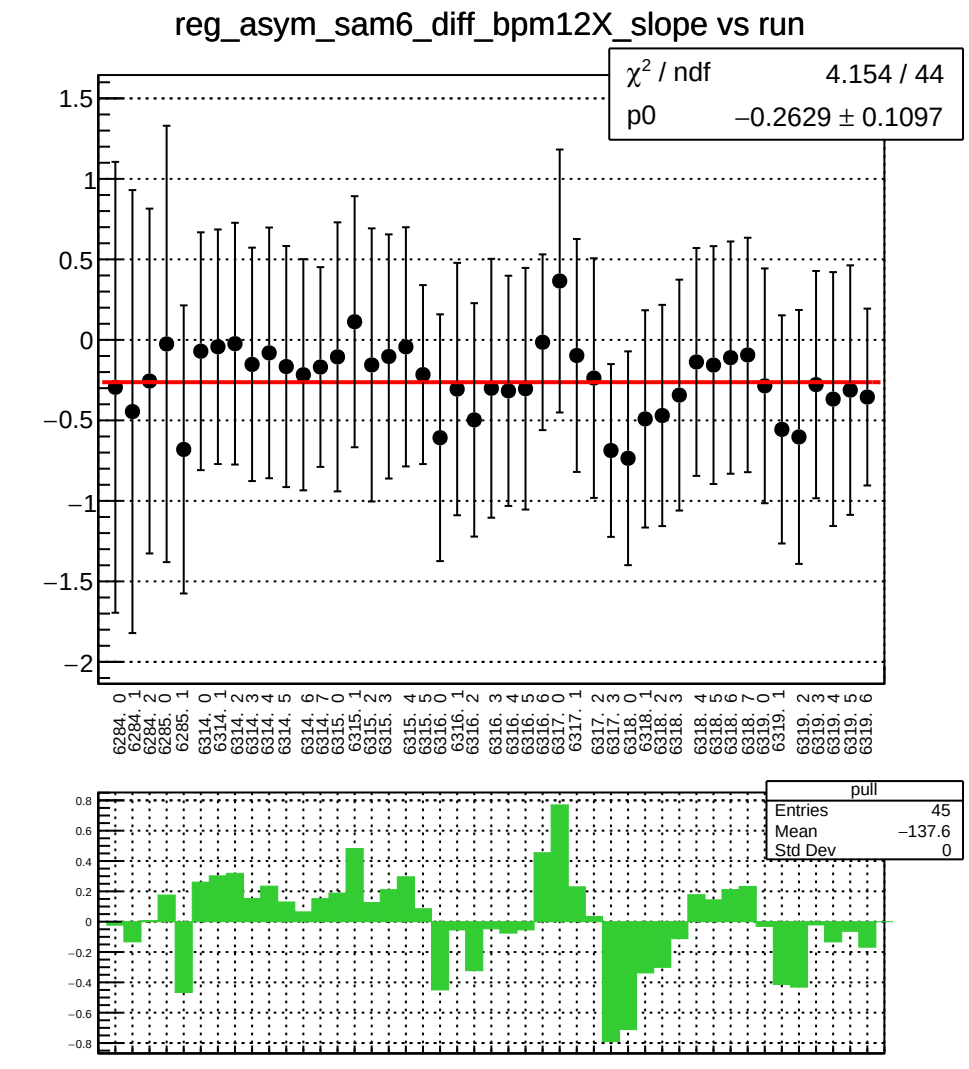

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 20.67 / 44
p0 44.7 ± 1.073
pull
Entries 45
Mean −80.83
Std Dev 0

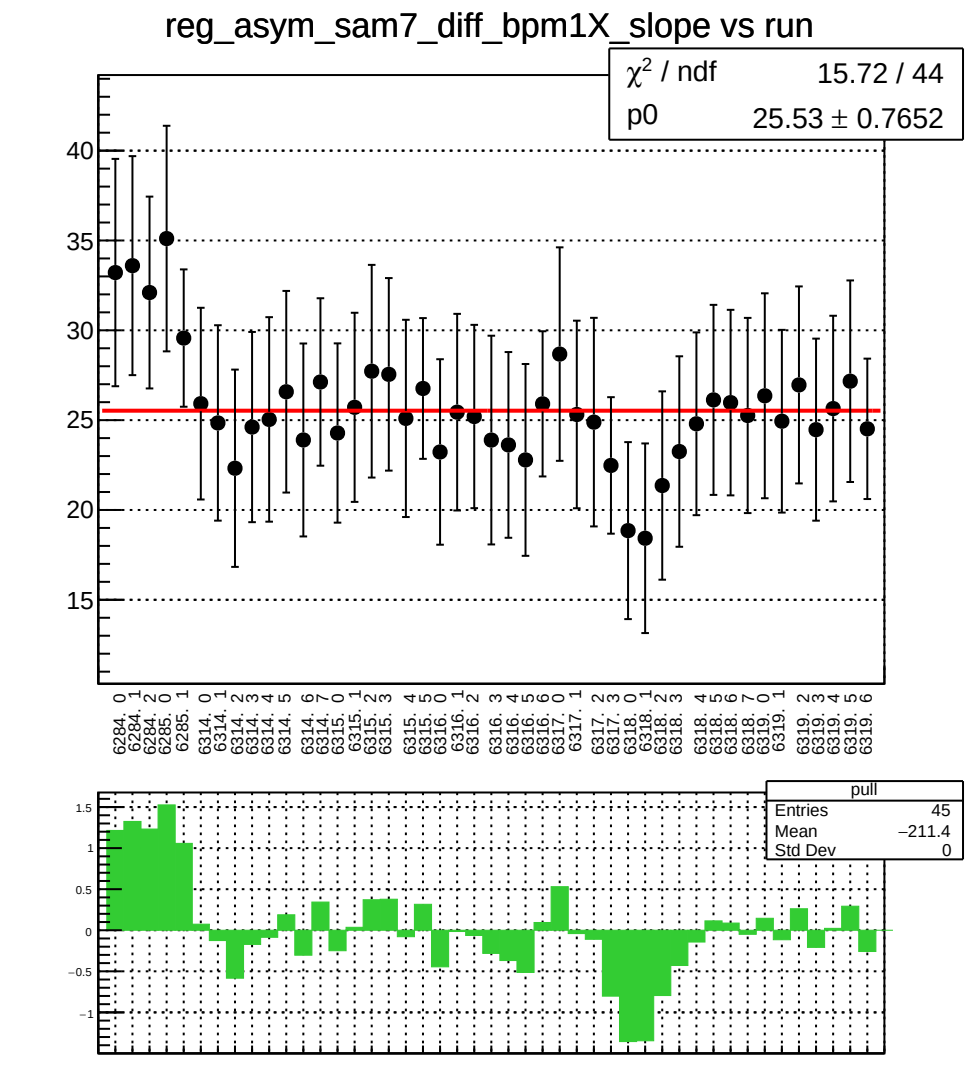

pull1D
Entries 45
Mean −0.06505
Std Dev 0.6746

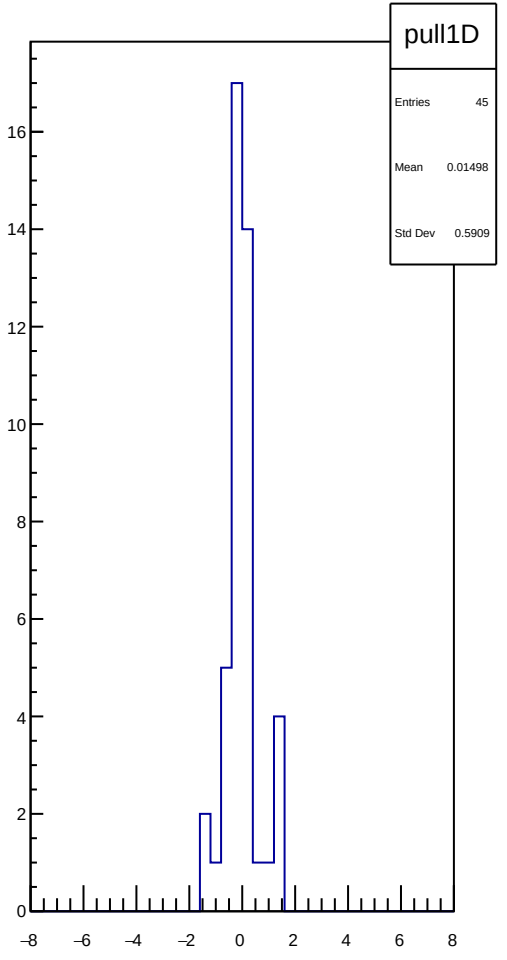

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.365 / 44
p0 44.38 ± 1.515
60
50
40
30
20
10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −73.65
Std Dev 0
1
0.5
0
−0.5
−1

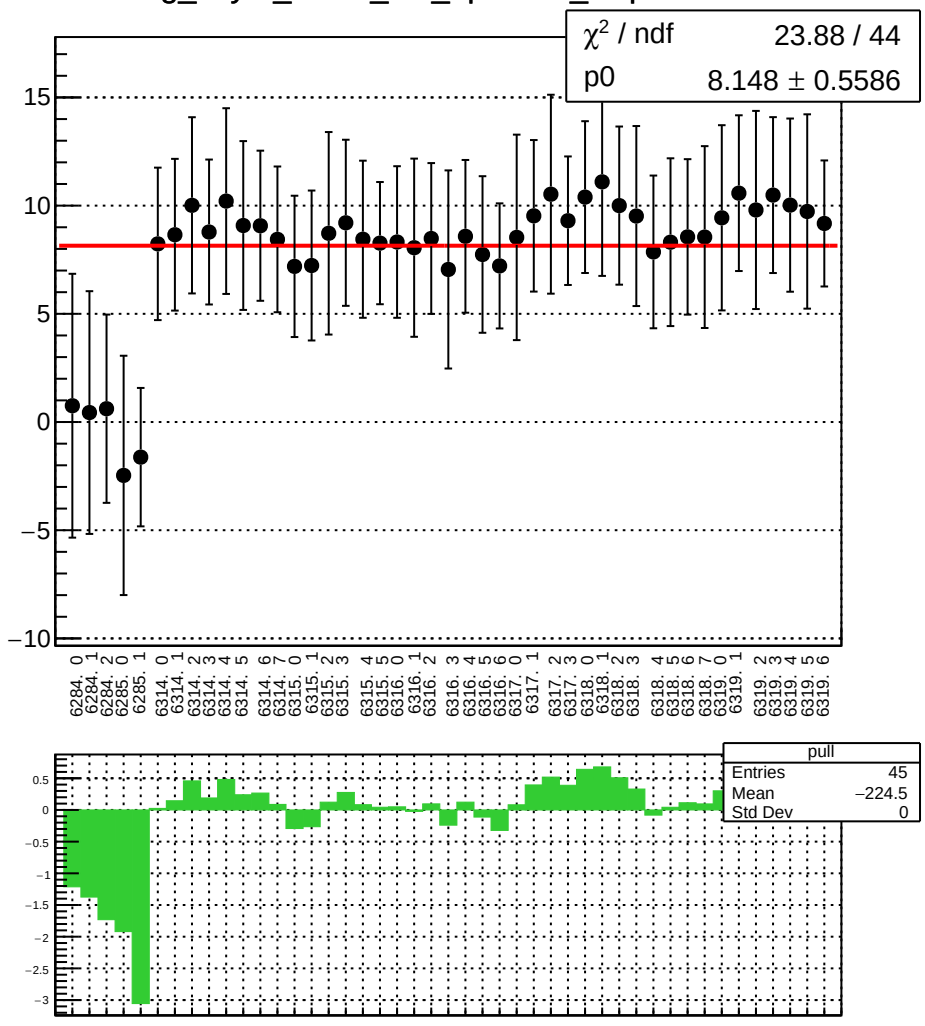

pull1D
Entries 45
Mean −0.03735
Std Dev 0.4547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

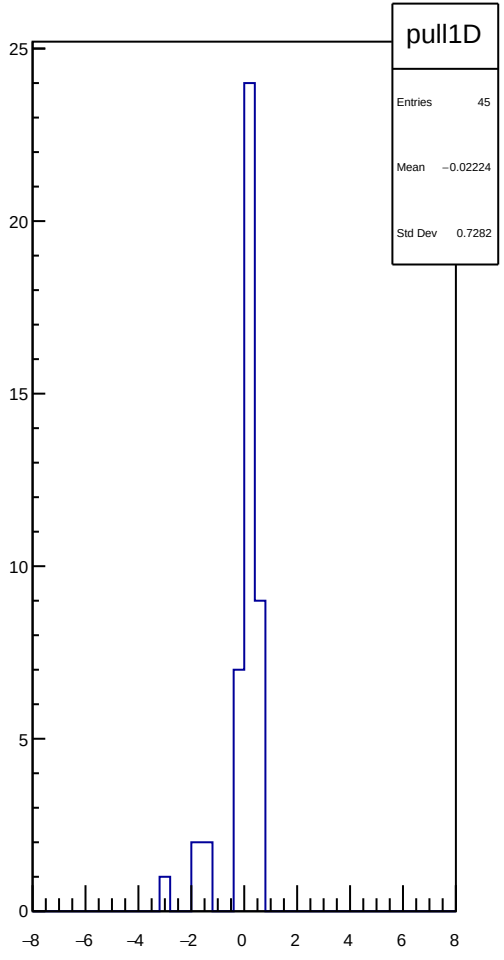

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 50.45 / 44
p0 43.85 ± 1.324
pull
Entries 45
Mean −58.06
Std Dev 0
pull1D
Entries 45
Mean 0.1134
Std Dev 1.053

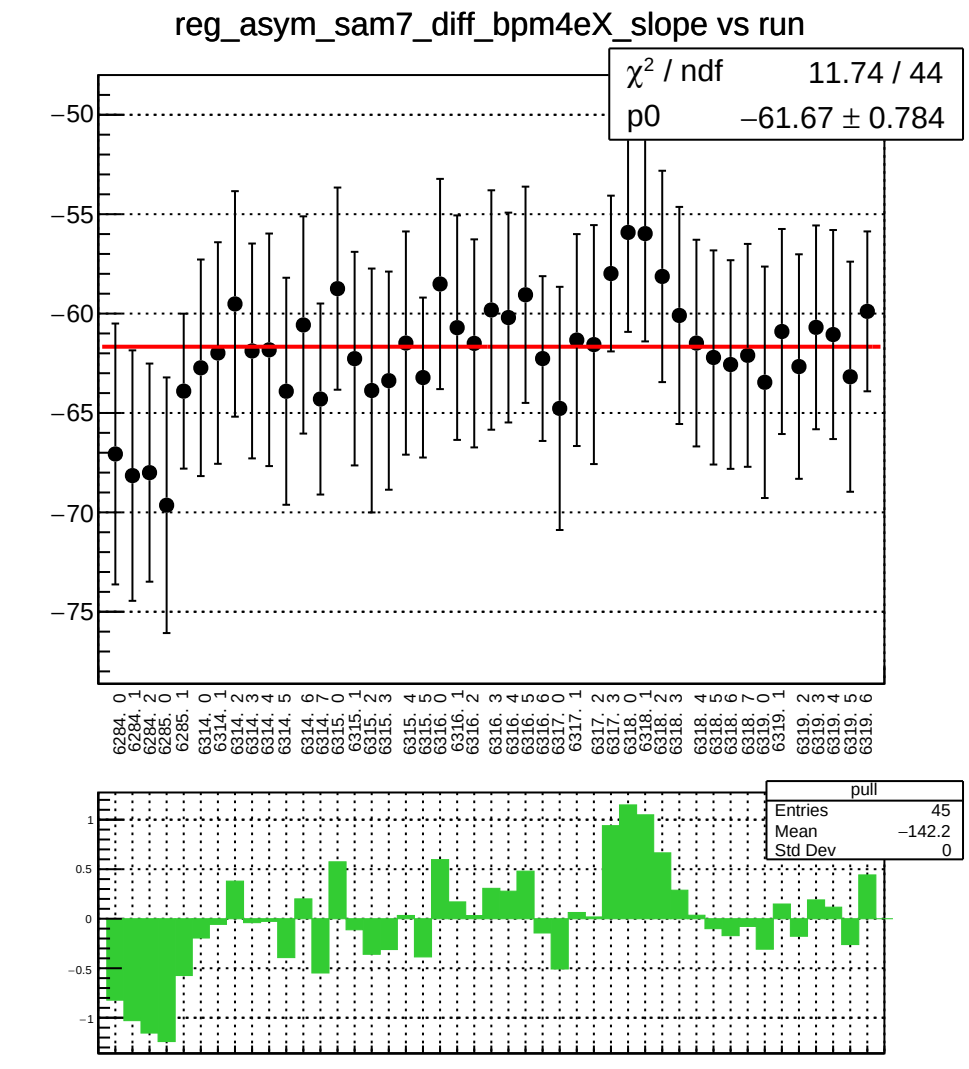

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 4.154 / 44
p0 −0.2629 ± 0.1097
pull
Entries 45
Mean −137.6
Std Dev 0
pull1D
Entries 45
Mean 0.00671
Std Dev 0.3037

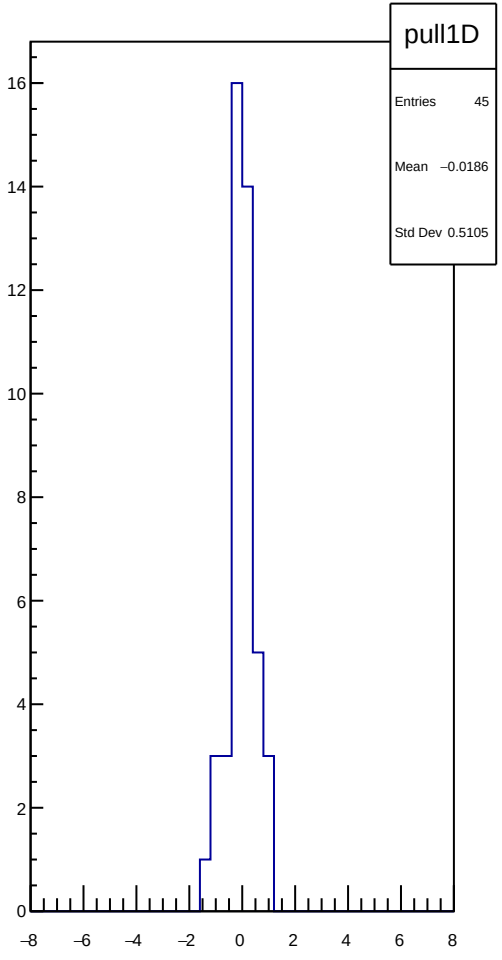

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 15.72 / 44
p0 25.53 ± 0.7652
40
35
30
25
20
15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −211.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

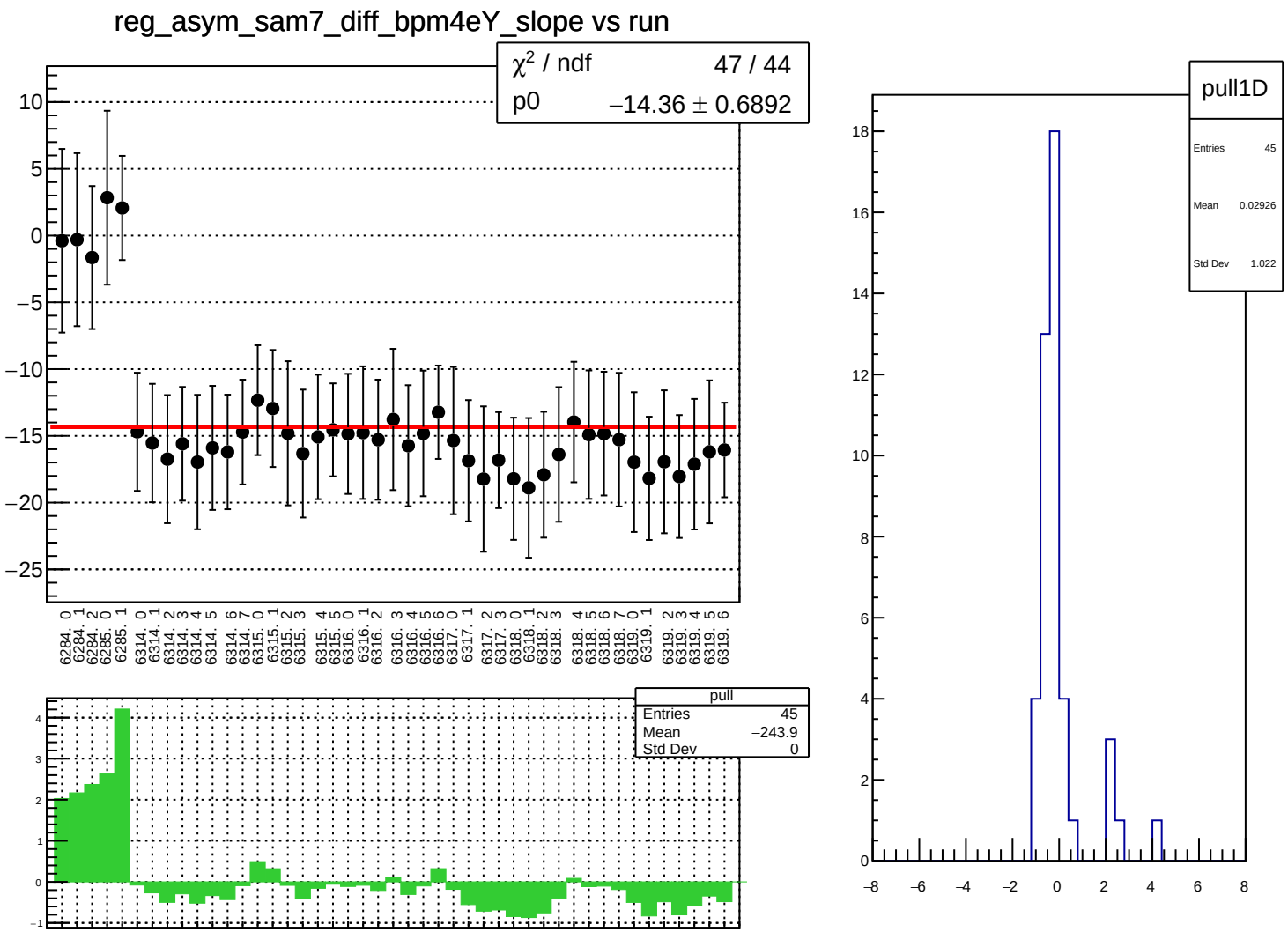

pull1D
Entries 45
Mean 0.01498
Std Dev 0.5909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

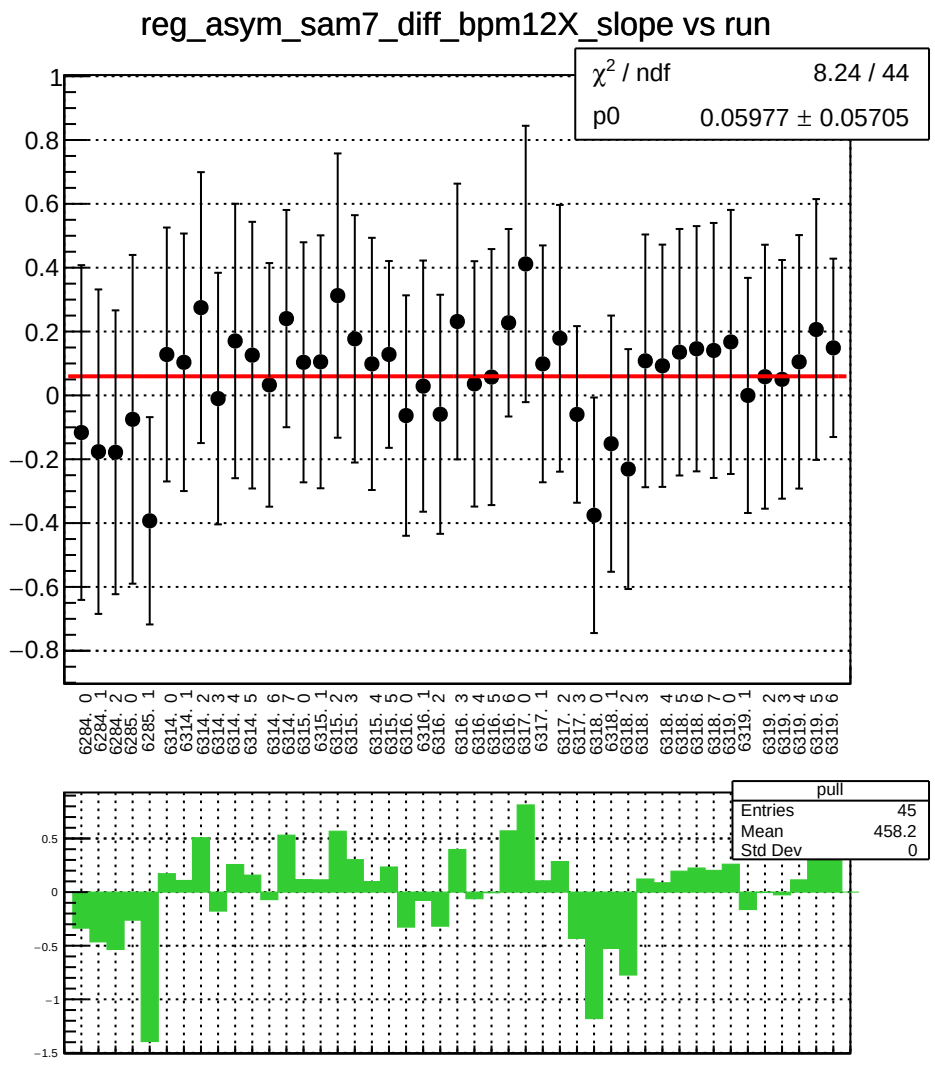

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 23.88 / 44
p0 8.148 ± 0.5586
pull
Entries 45
Mean −224.5
Std Dev 0

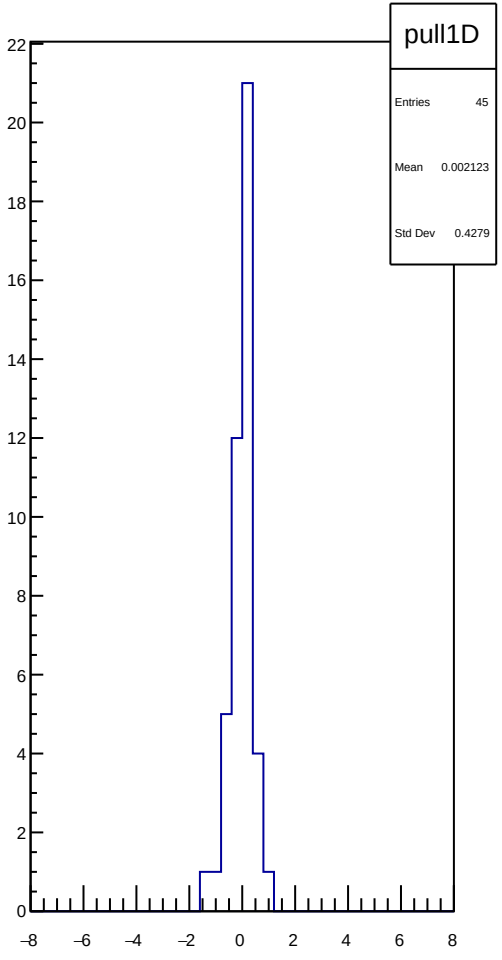

pull1D
Entries 45
Mean −0.02224
Std Dev 0.7282

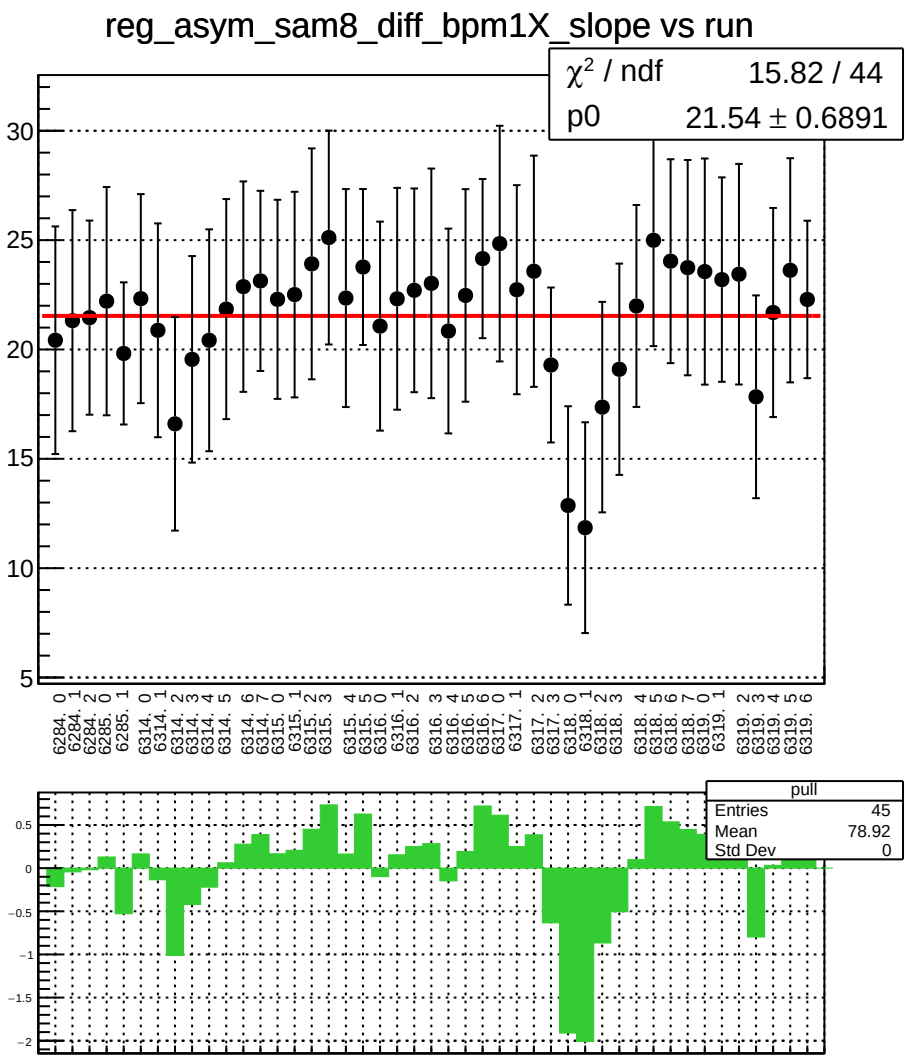

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 11.74 / 44
p0 −61.67 ± 0.784
−50
−55
−60
−65
−70
−75
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −142.2
Std Dev 0
1
0.5
0
−0.5
−1

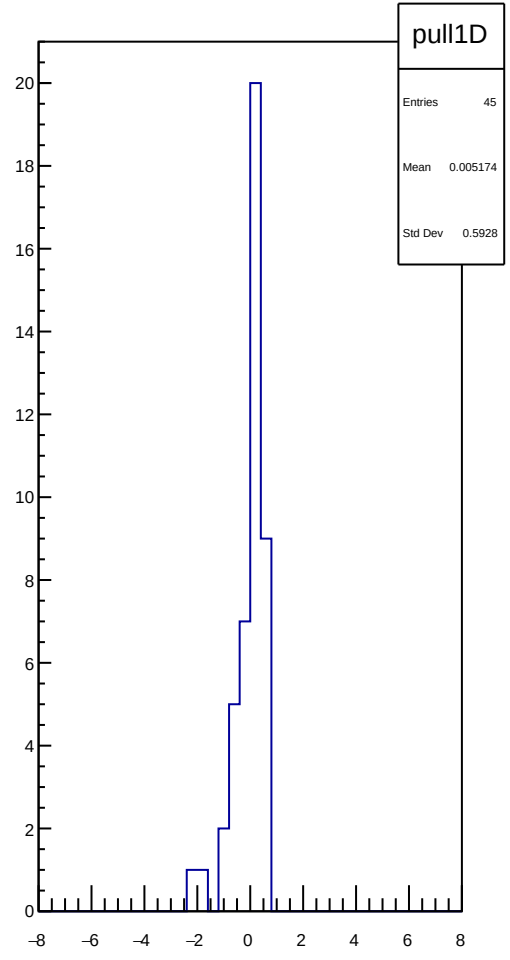

pull1D
Entries 45
Mean −0.0186
Std Dev 0.5105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

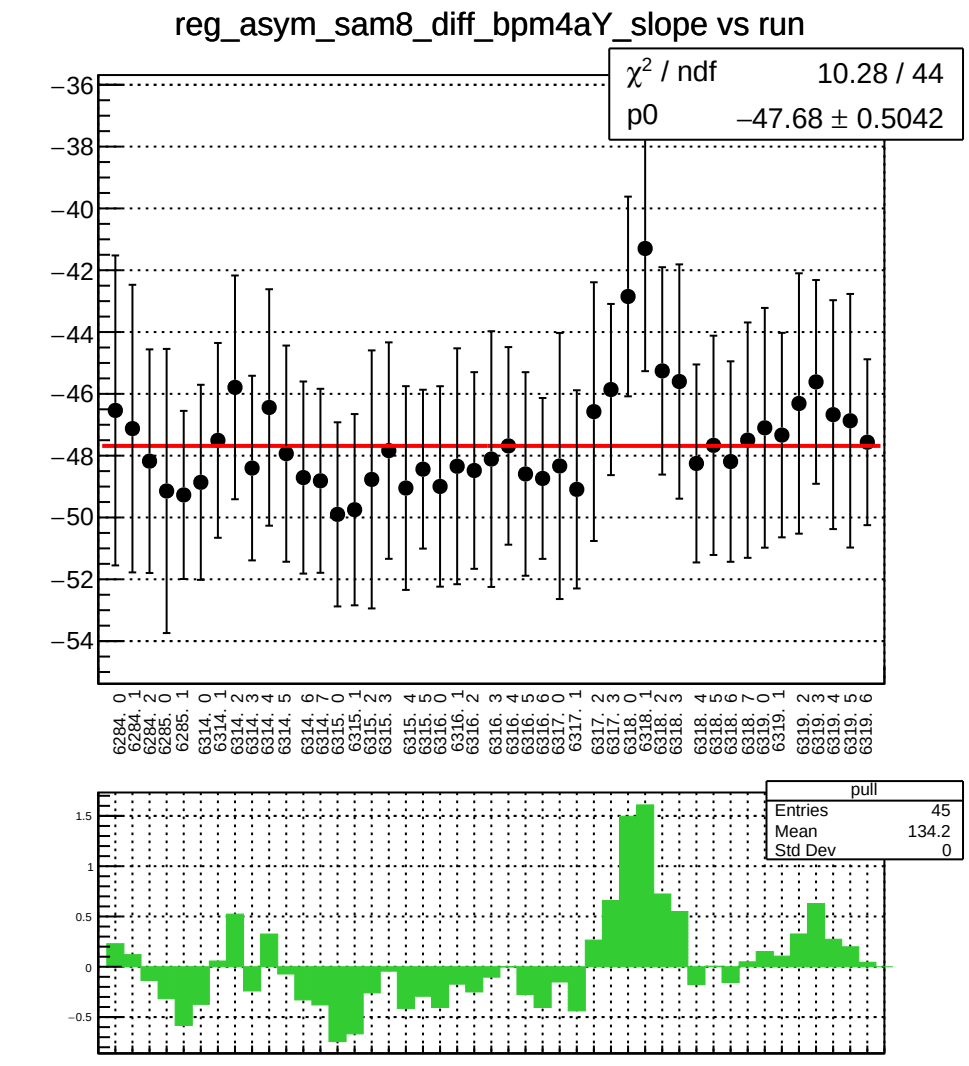

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 47 / 44
p0 −14.36 ± 0.6892
pull
Entries 45
Mean −243.9
Std Dev 0
pull1D
Entries 45
Mean 0.02926
Std Dev 1.022

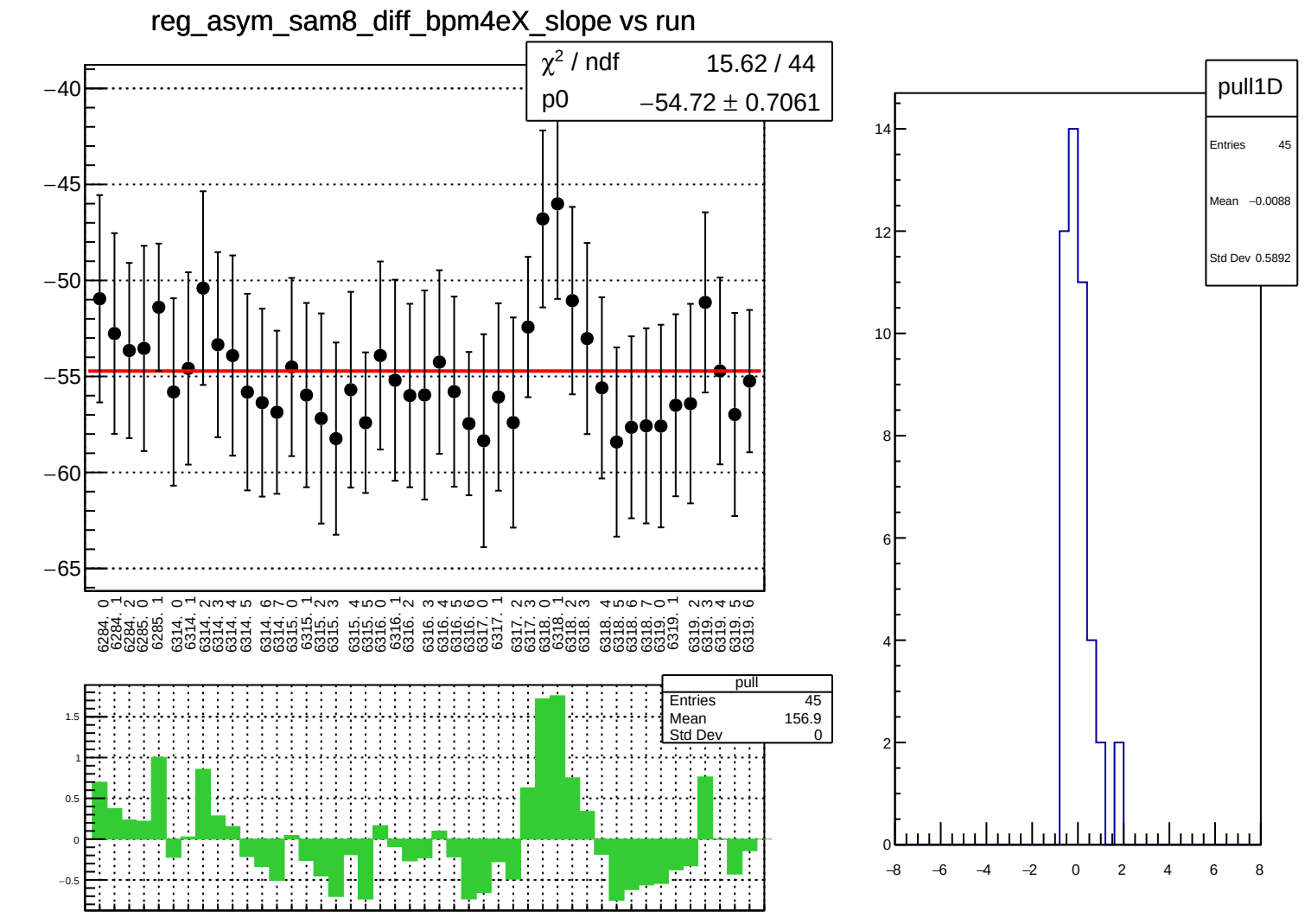

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 8.24 / 44
p0 0.05977 ± 0.05705
pull
Entries 45
Mean 458.2
Std Dev 0

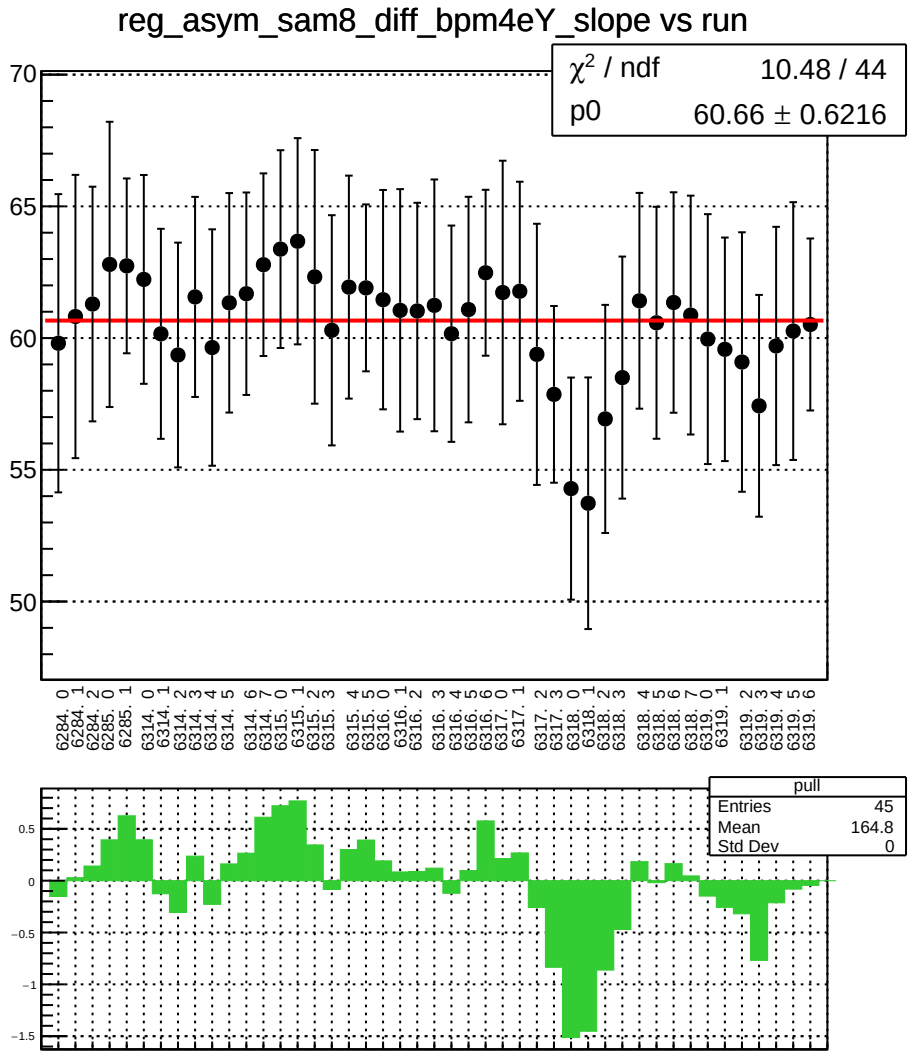

pull1D
Entries 45
Mean 0.002123
Std Dev 0.4279

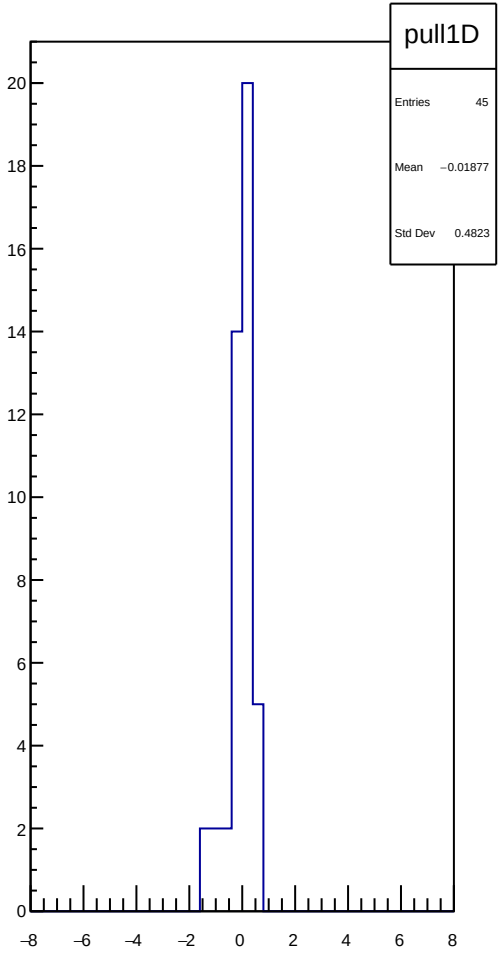

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 15.82 / 44
p0 21.54 ± 0.6891
pull
Entries 45
Mean 78.92
Std Dev 0

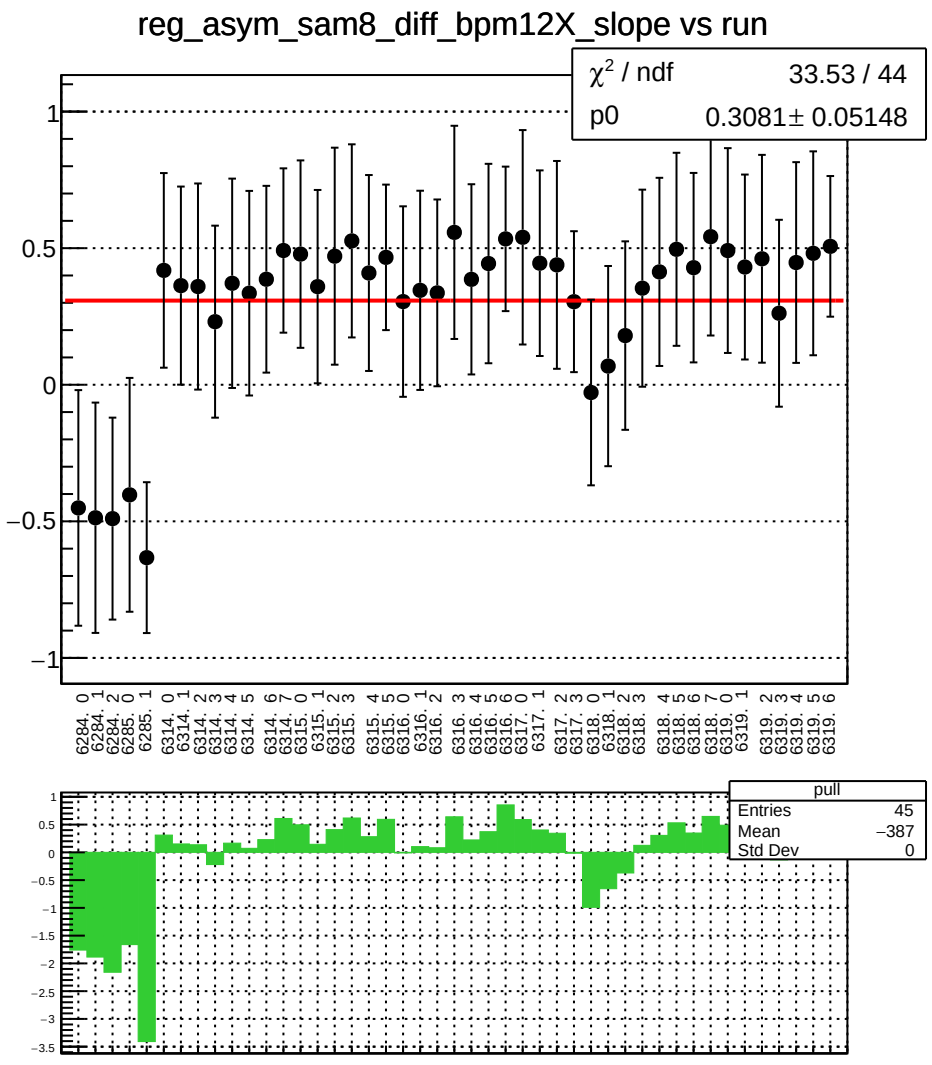

pull1D
Entries 45
Mean 0.005174
Std Dev 0.5928

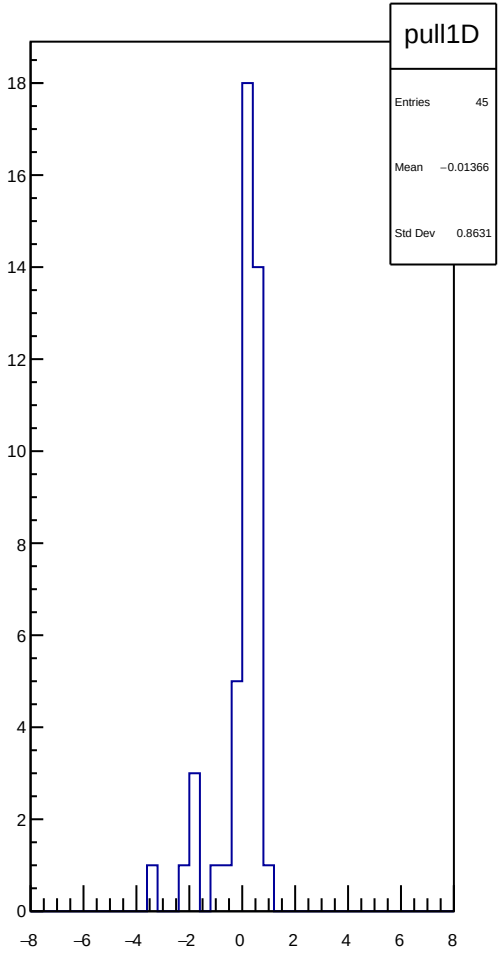

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 10.28 / 44
p0 −47.68 ± 0.5042
pull
Entries 45
Mean 134.2
Std Dev 0
pull1D
Entries 45
Mean 0.02116
Std Dev 0.4774

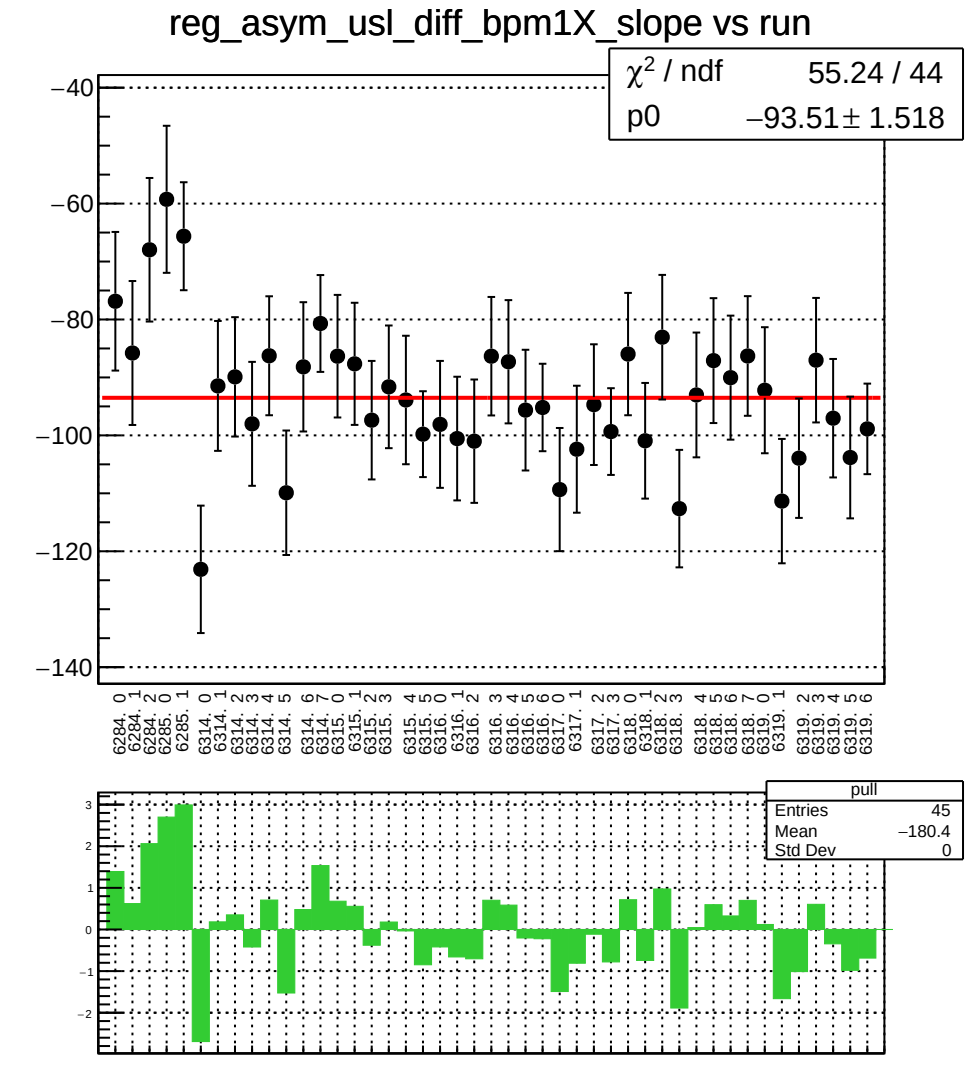

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 15.62 / 44
p0 −54.72 ± 0.7061
−40
−45
−50
−55
−60
−65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 156.9
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 45
Mean −0.0088
Std Dev 0.5892
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

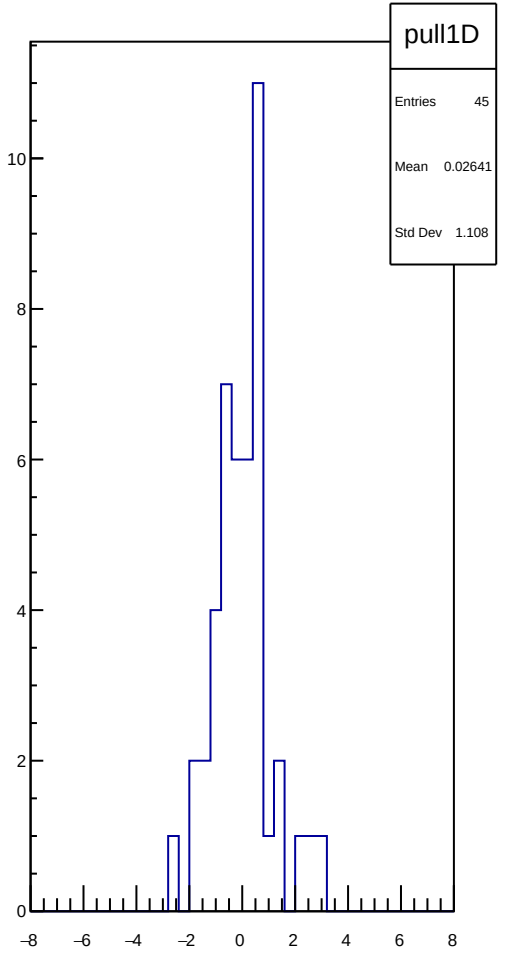

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 10.48 / 44
p0 60.66 ± 0.6216
70
65
60
55
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 164.8
Std Dev 0
0.5
0
−0.5
−1
−1.5

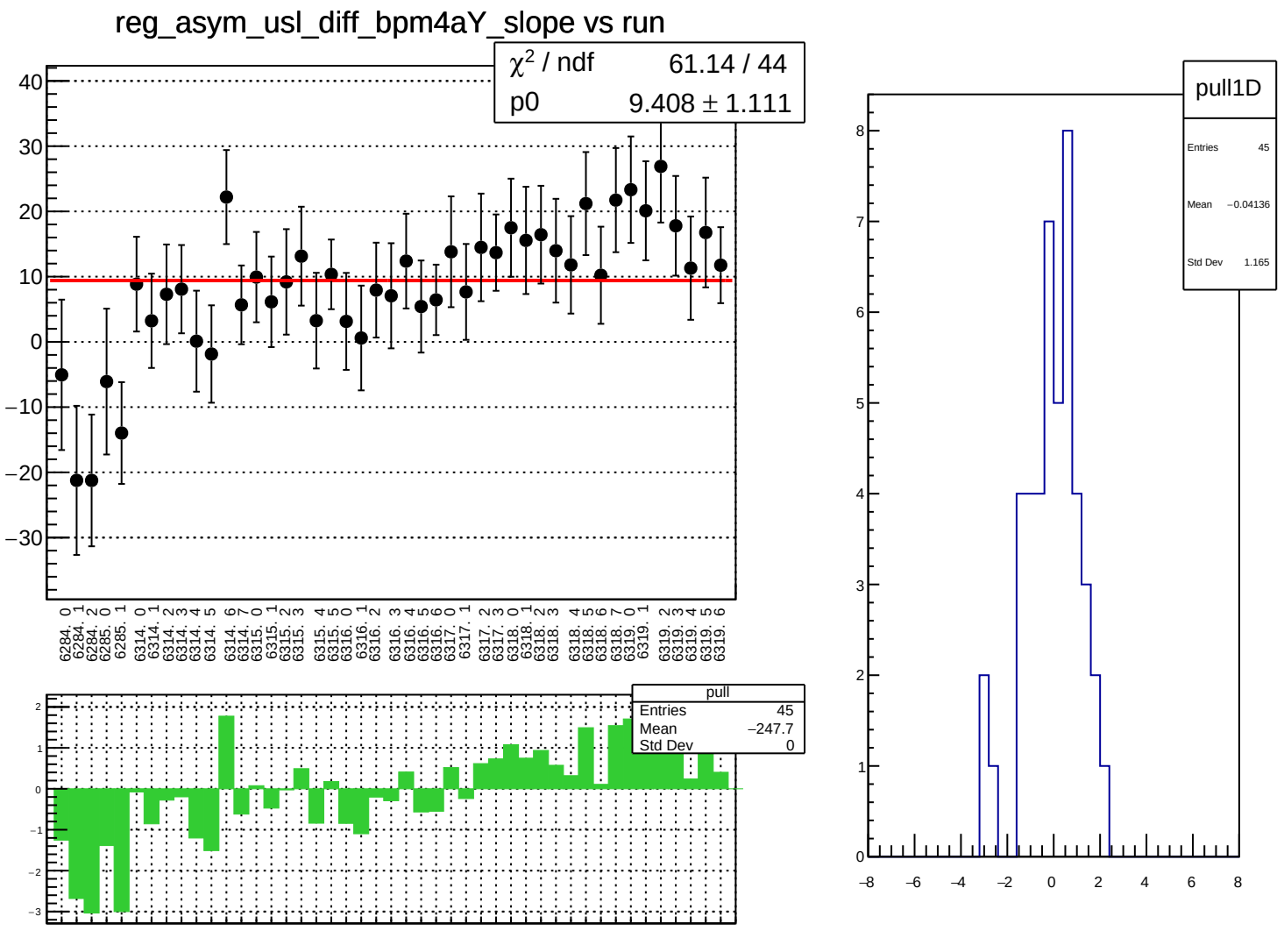

pull1D
Entries 45
Mean −0.01877
Std Dev 0.4823
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

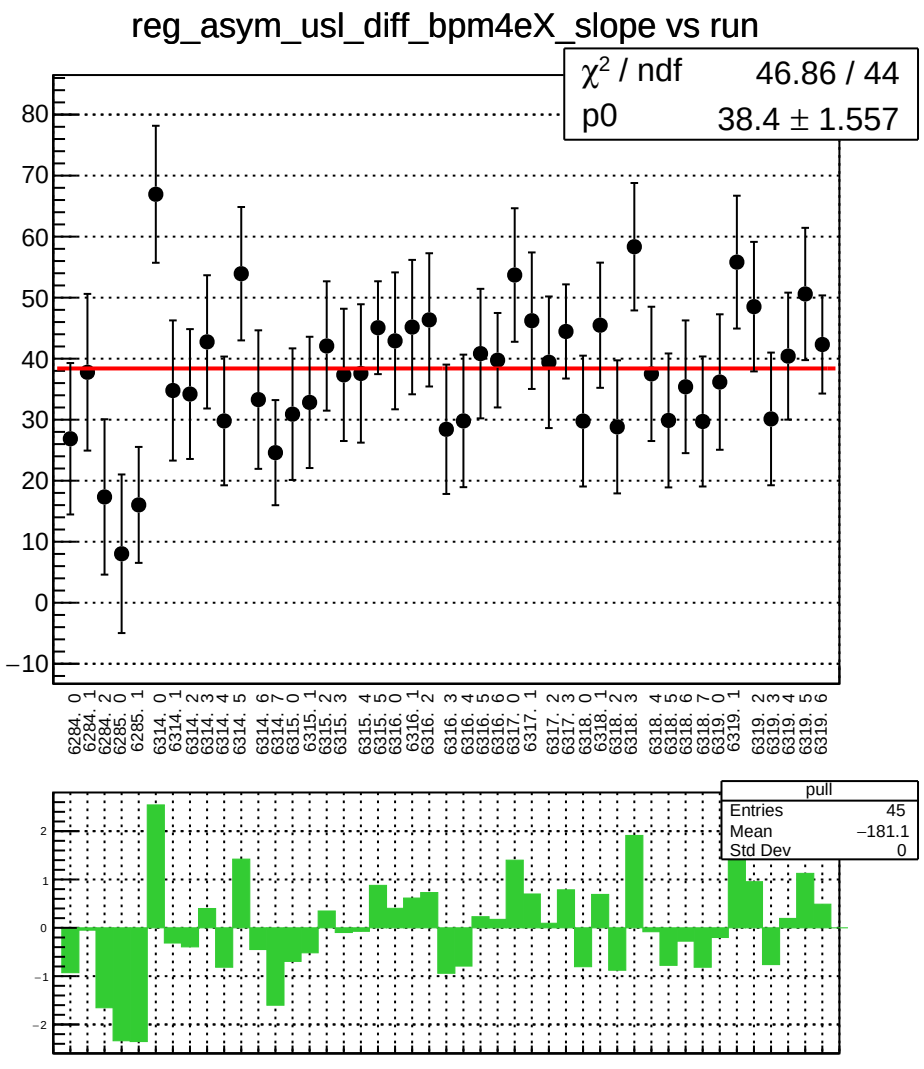

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 33.53 / 44
p0 0.3081± 0.05148
pull
Entries 45
Mean −387
Std Dev 0

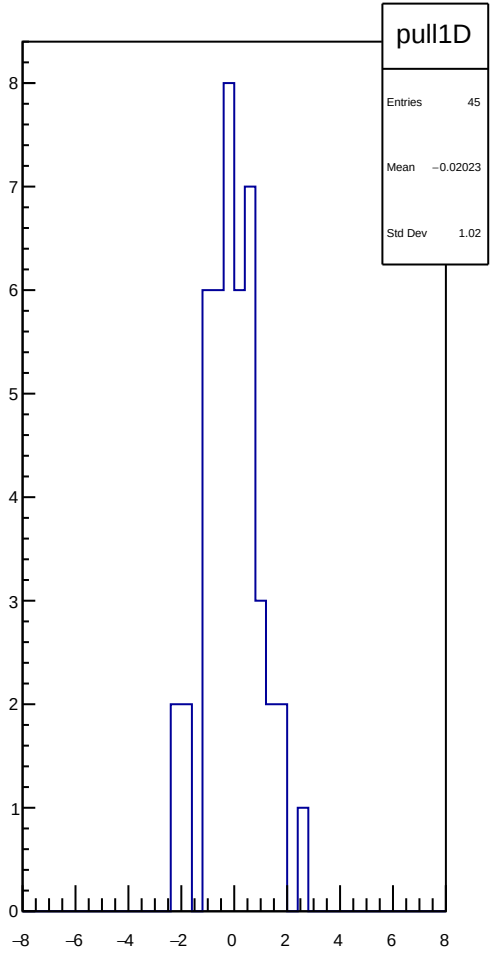

pull1D
Entries 45
Mean −0.01366
Std Dev 0.8631

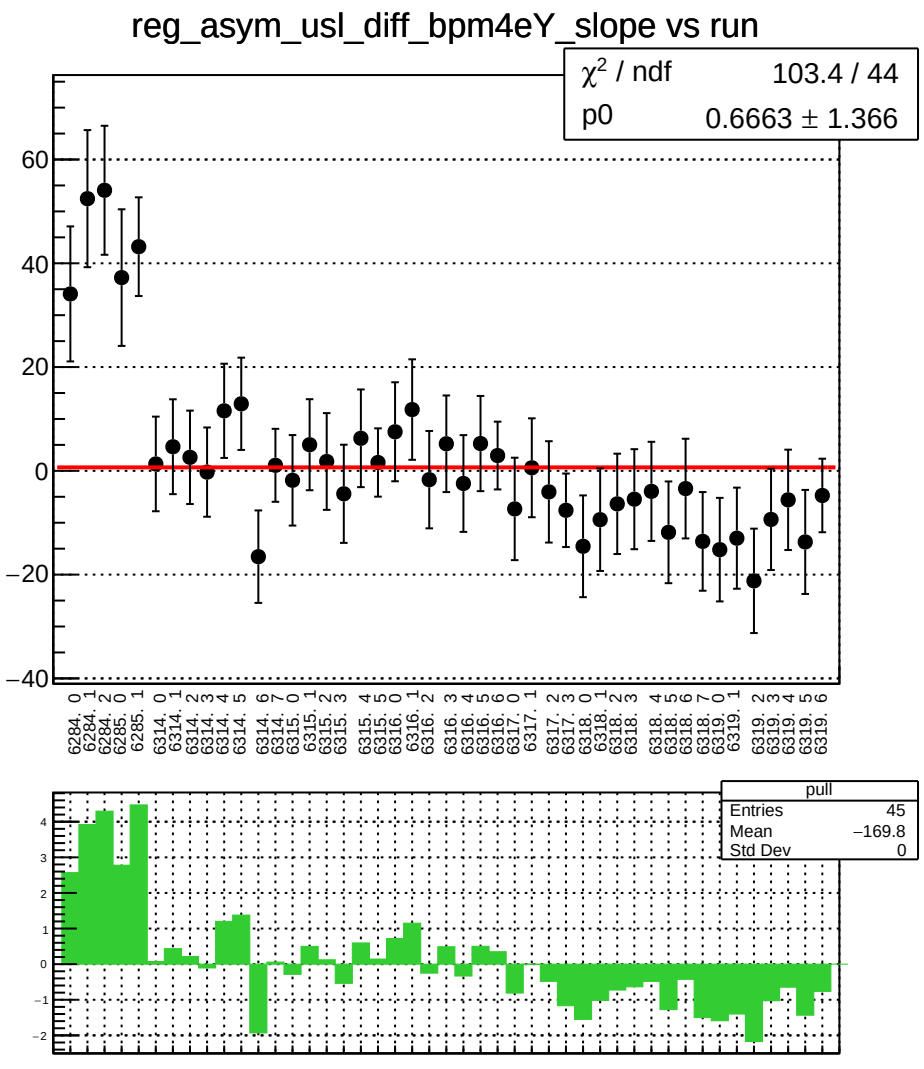

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 55.24 / 44
p0 −93.51± 1.518
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −180.4
Std Dev 0
3
2
1
0
−1
−2

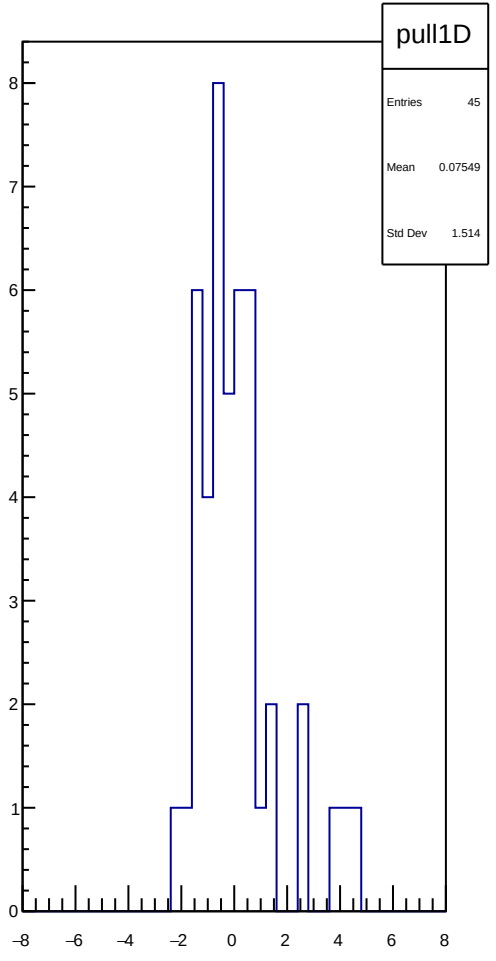

pull1D
Entries 45
Mean 0.02641
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

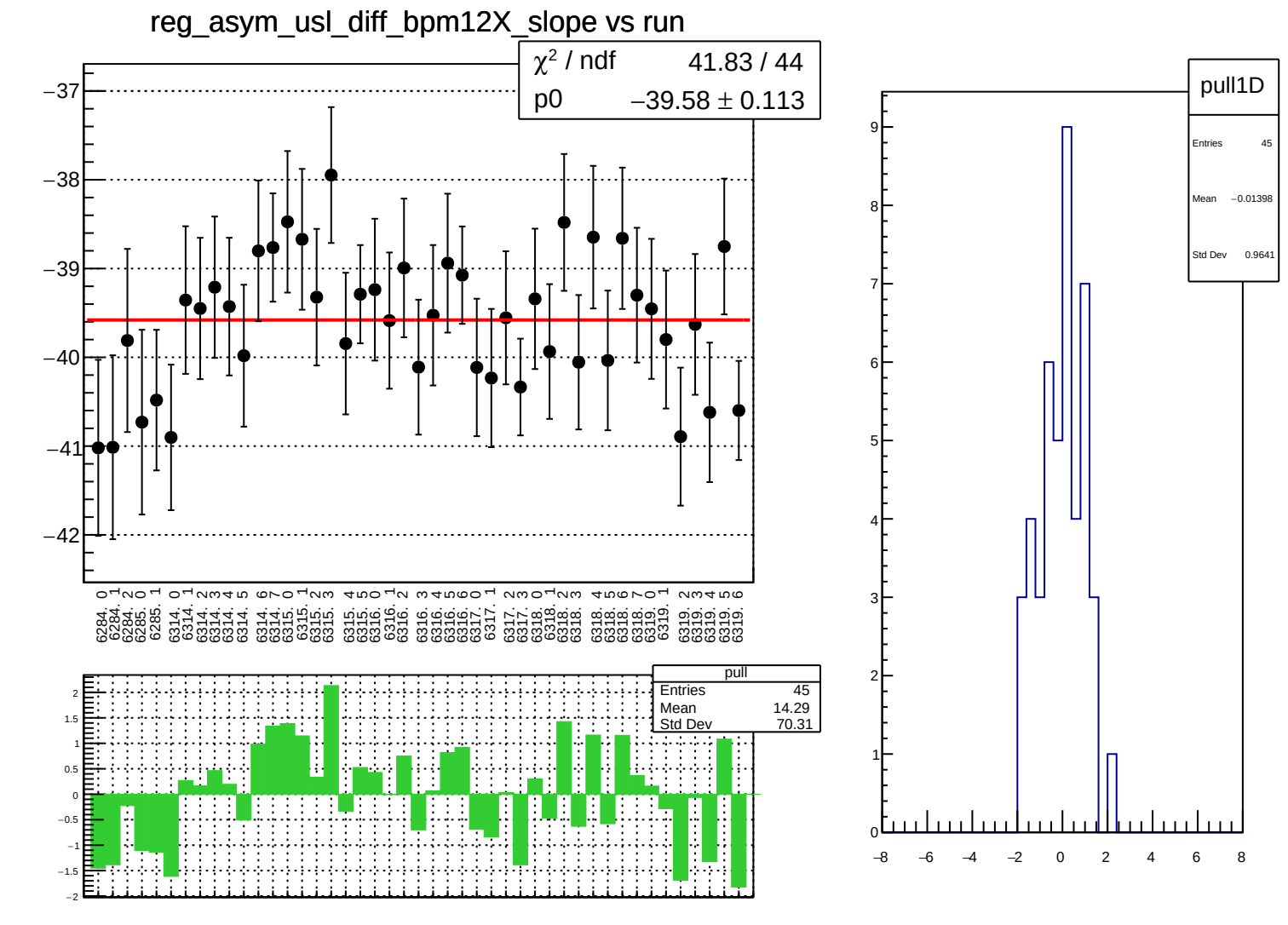

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 61.14 / 44
p0 9.408 ± 1.111
pull
Entries 45
Mean −247.7
Std Dev 0
pull1D
Entries 45
Mean −0.04136
Std Dev 1.165

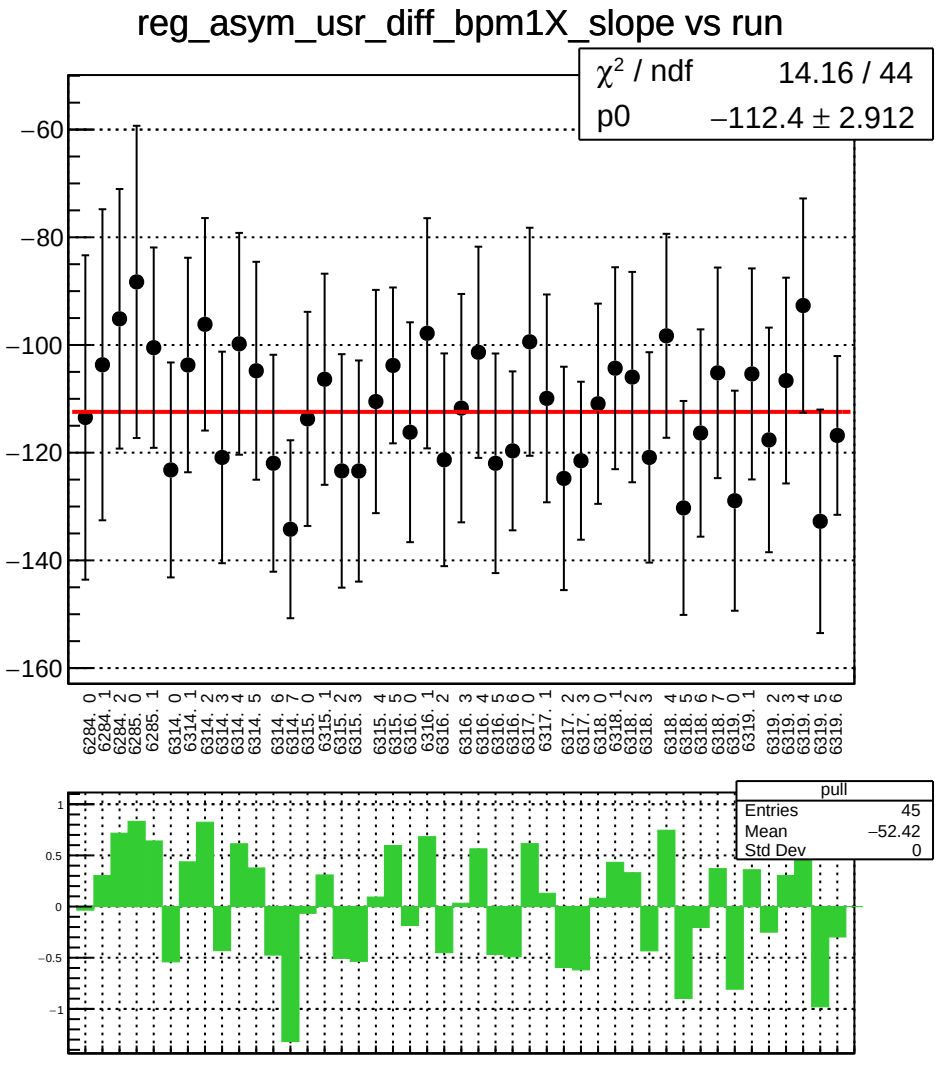

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.86 / 44
p0 38.4 ± 1.557
pull
Entries 45
Mean −181.1
Std Dev 0

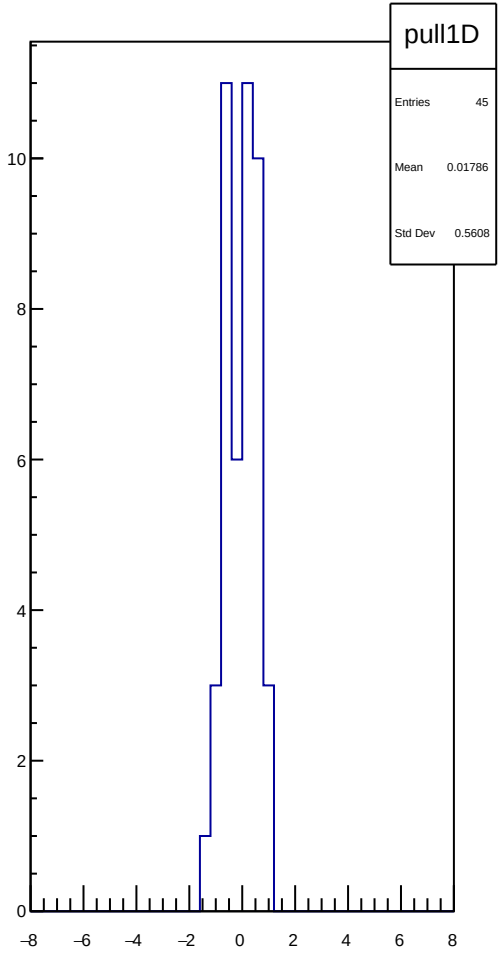

pull1D
Entries 45
Mean −0.02023
Std Dev 1.02

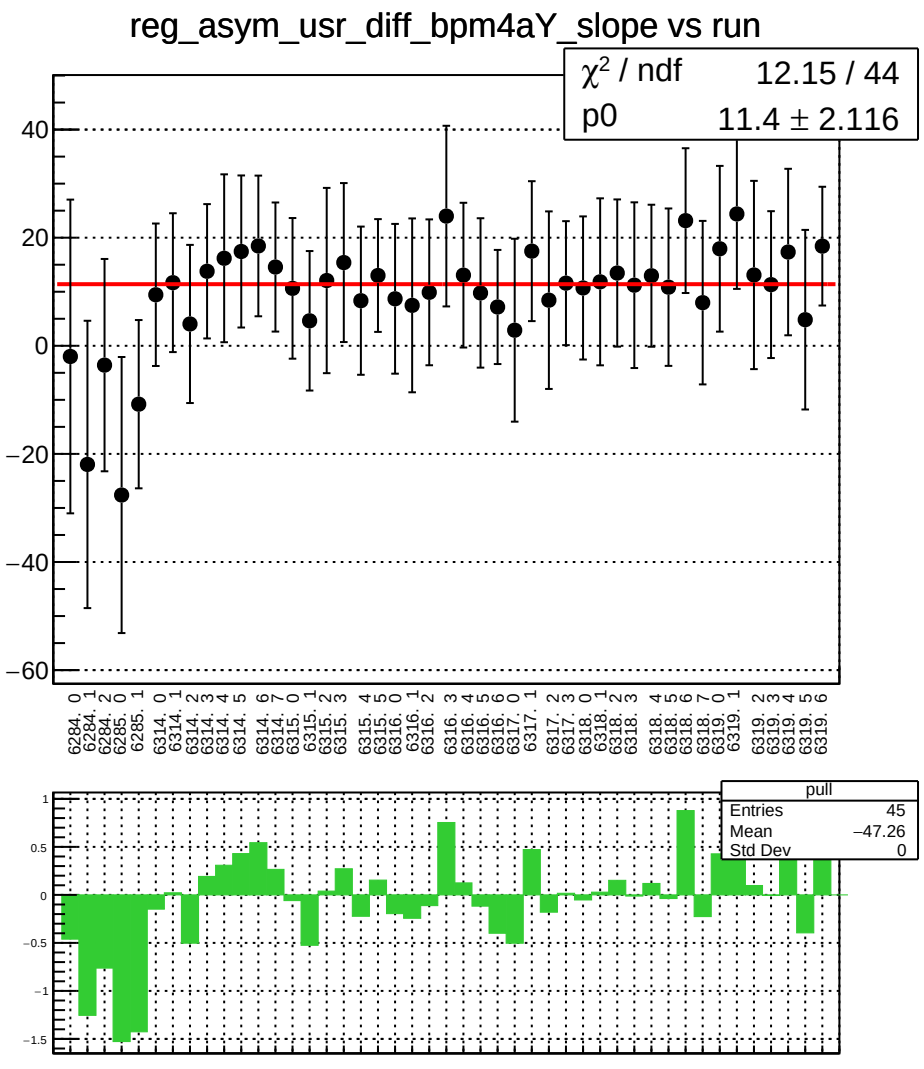

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 103.4 / 44
p0 0.6663 ± 1.366
pull
Entries 45
Mean −169.8
Std Dev 0

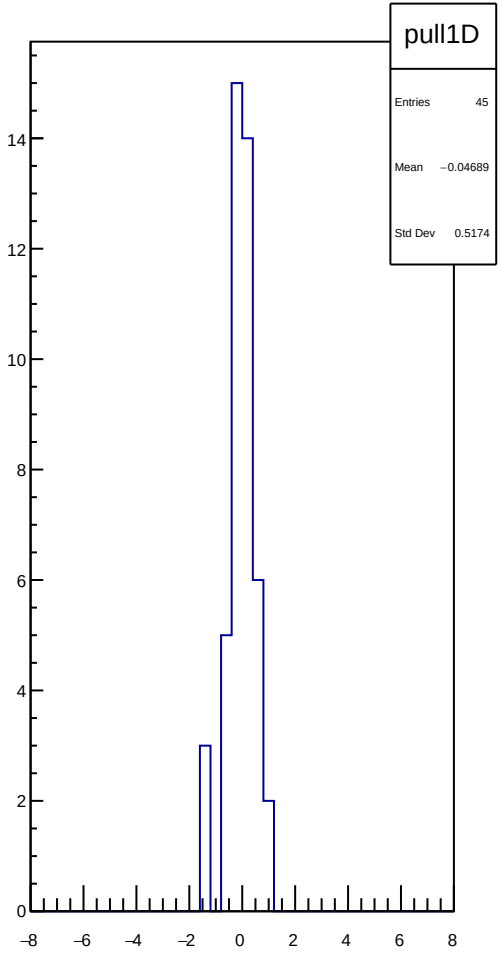

pull1D
Entries 45
Mean 0.07549
Std Dev 1.514

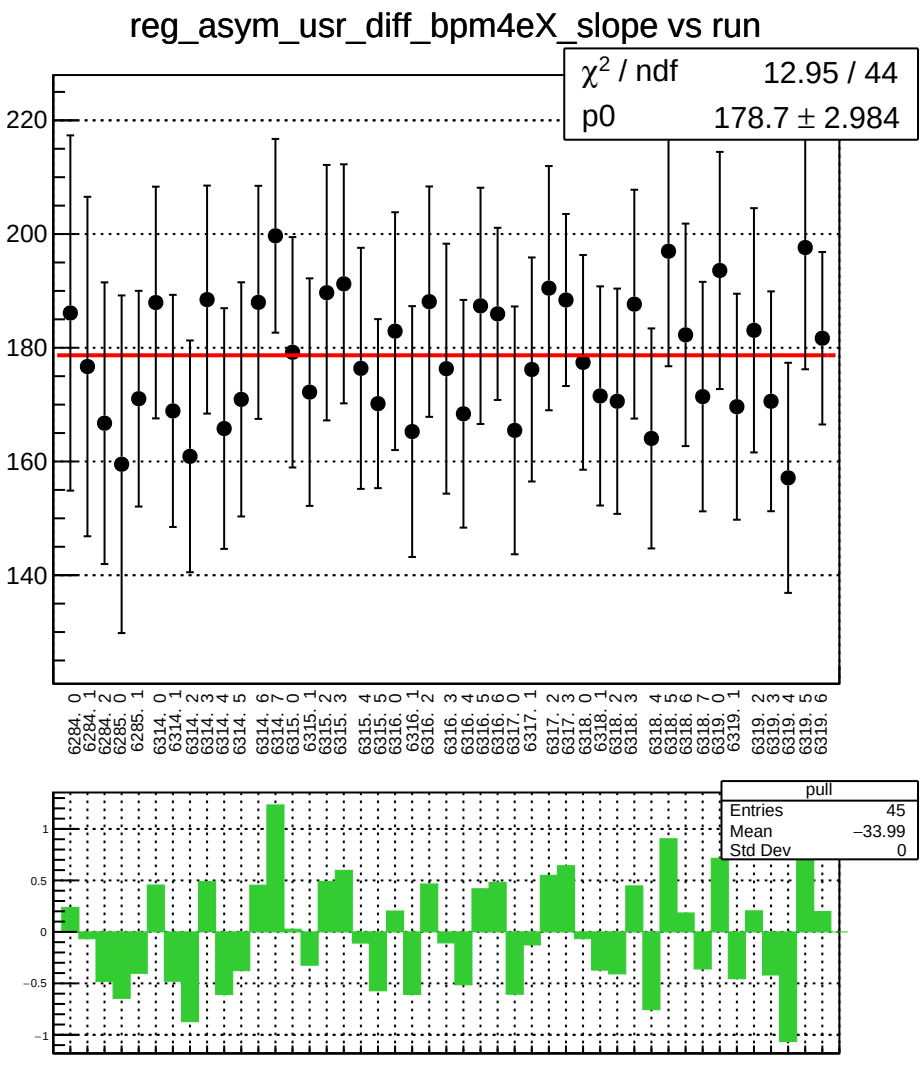

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 41.83 / 44
p0 −39.58 ± 0.113
pull
Entries 45
Mean 14.29
Std Dev 70.31
pull1D
Entries 45
Mean −0.01398
Std Dev 0.9641

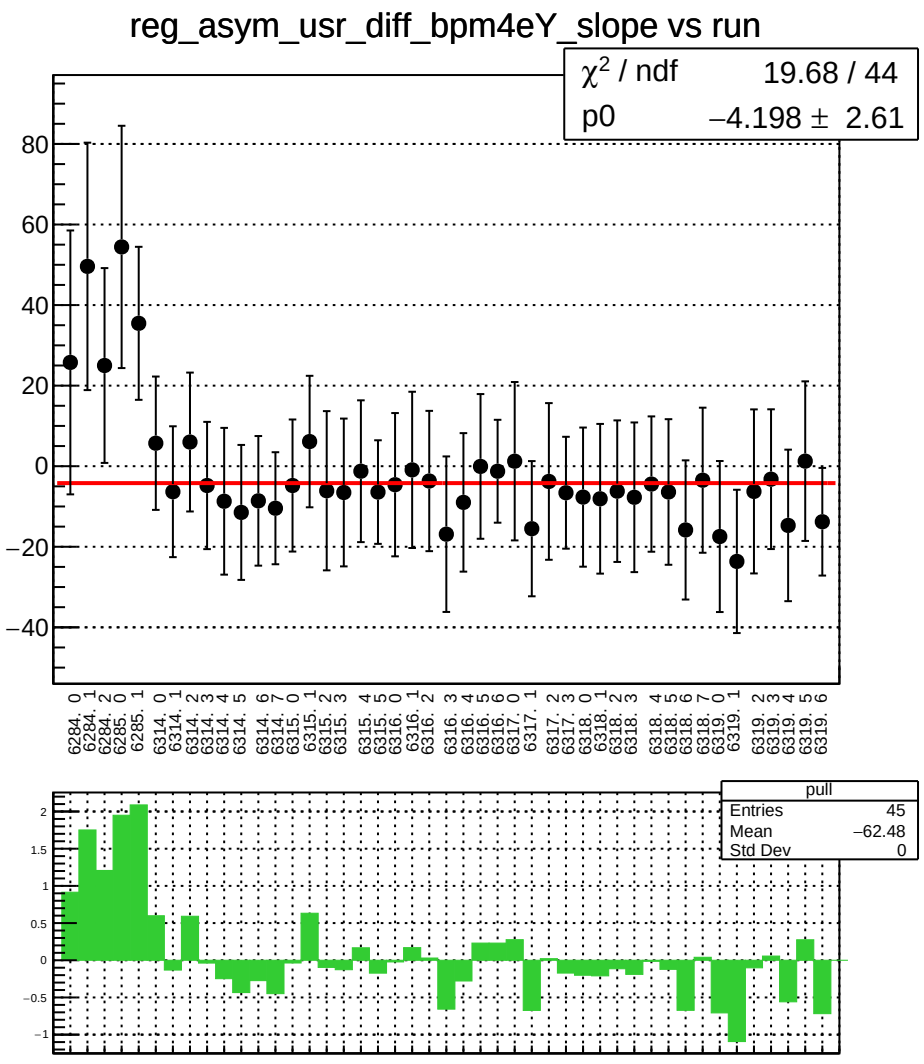

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 14.16 / 44
p0 −112.4 ± 2.912
−60
−80
−100
−120
−140
−160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.42
Std Dev 0
1
0.5
0
−0.5
−1

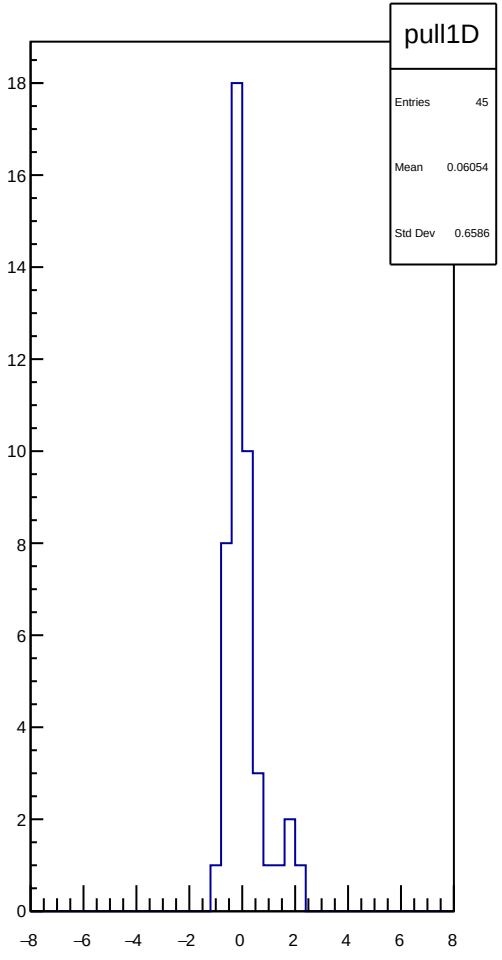

pull1D
Entries 45
Mean 0.01786
Std Dev 0.5608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

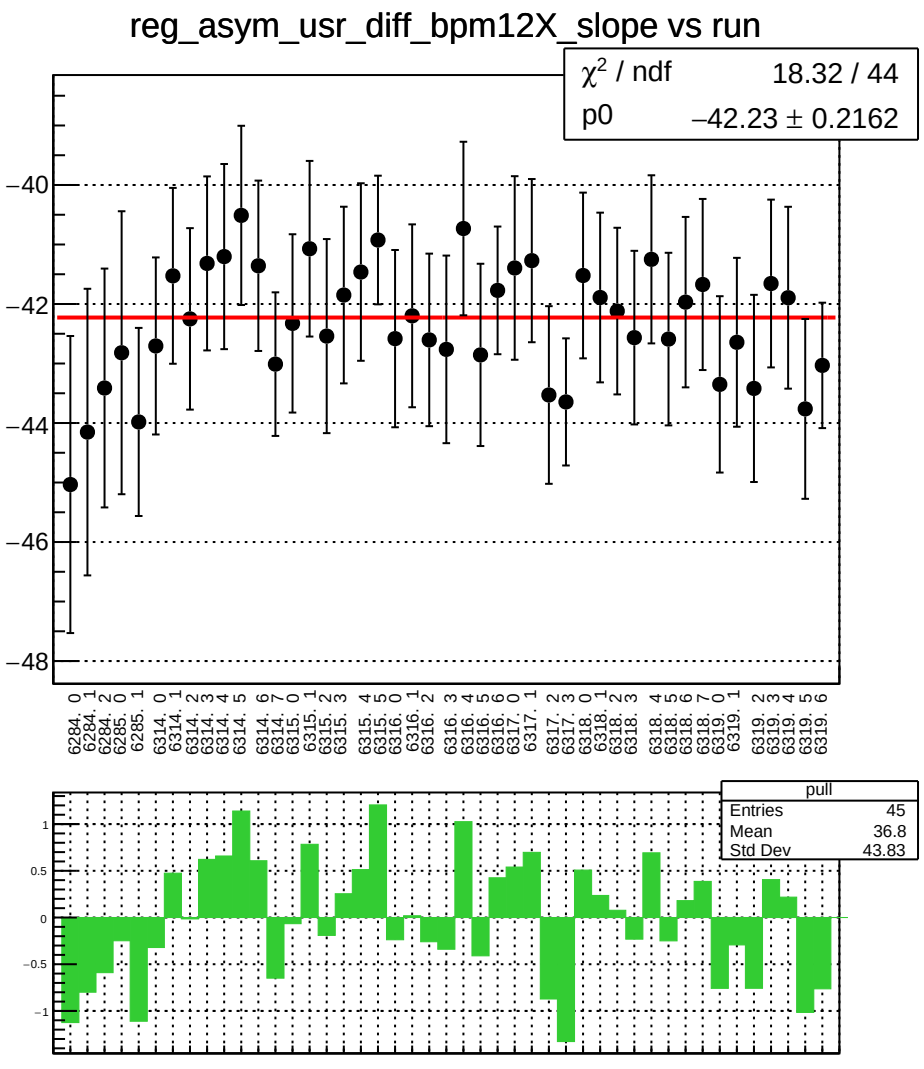

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.15 / 44
p0 11.4 ± 2.116
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −47.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

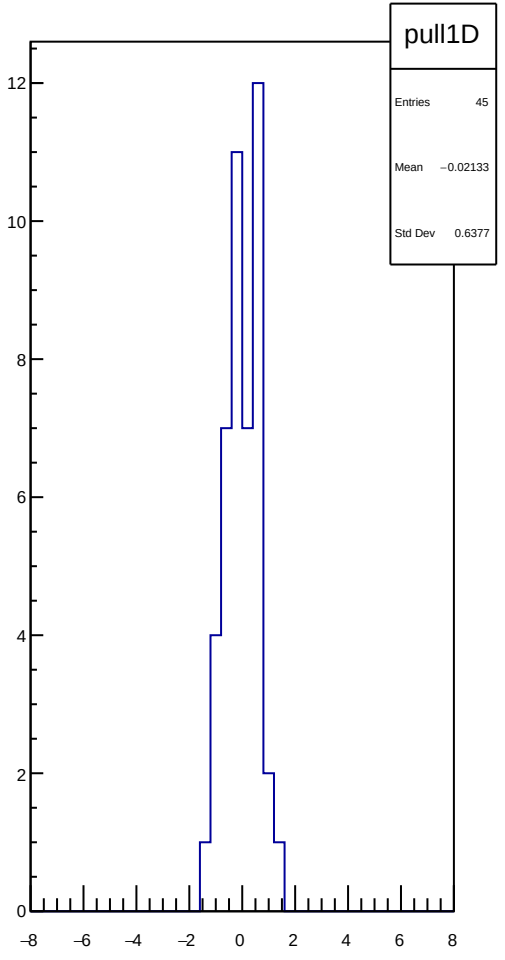

pull1D
Entries 45
Mean −0.04689
Std Dev 0.5174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

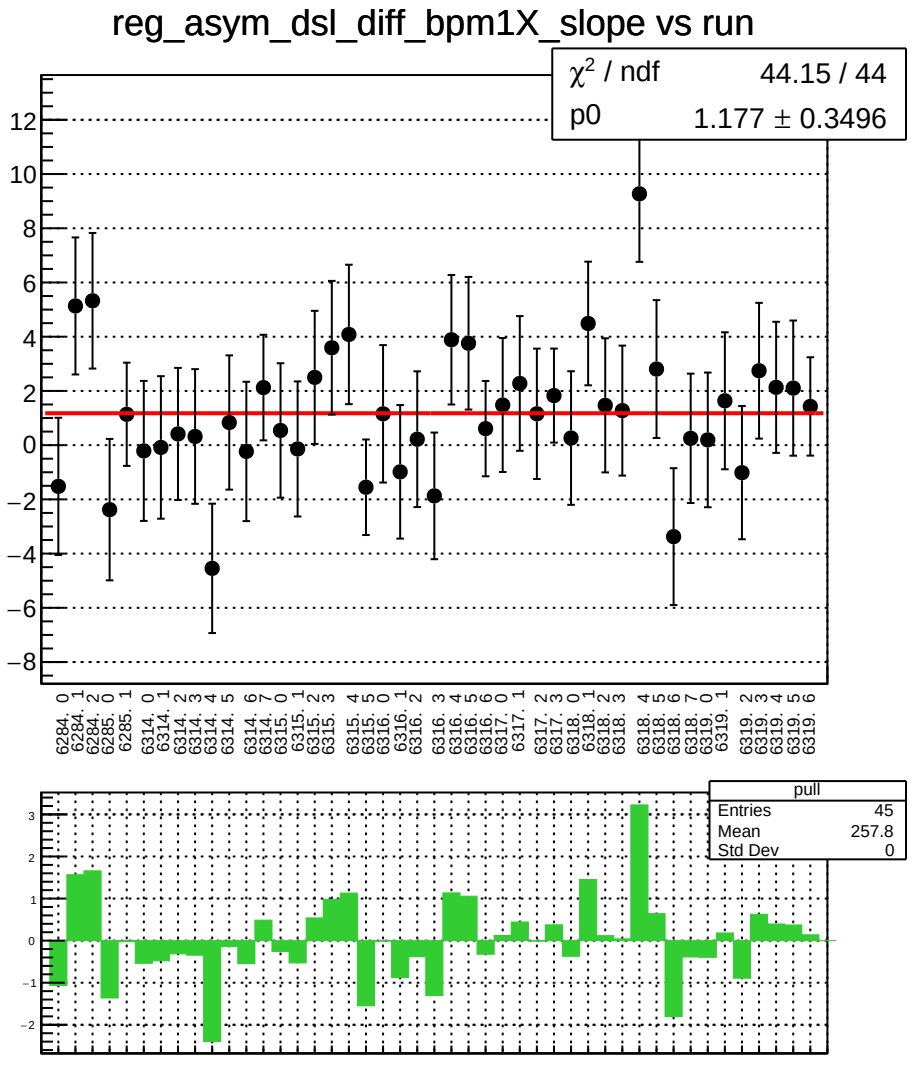

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 12.95 / 44
p0 178.7 ± 2.984
220
200
180
160
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −33.99
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01153
Std Dev 0.5364
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

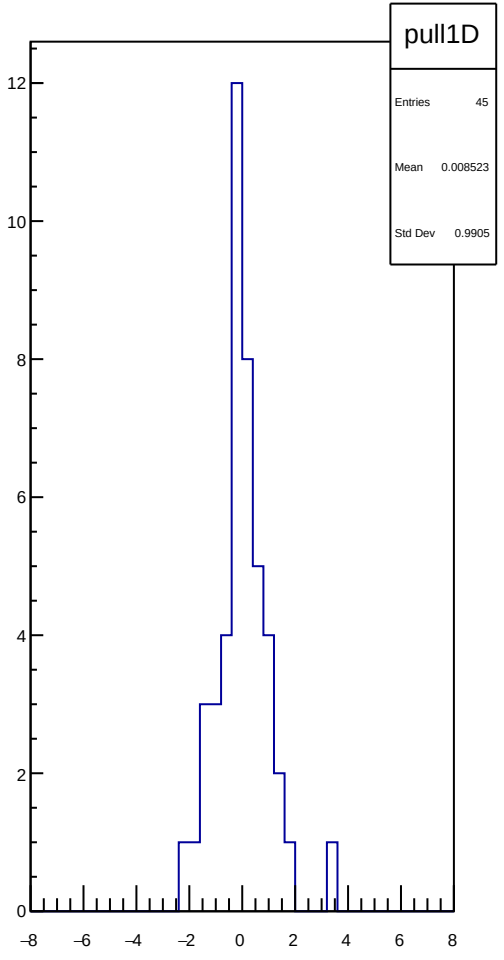

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 19.68 / 44
p0 −4.198 ± 2.61
pull
Entries 45
Mean −62.48
Std Dev 0

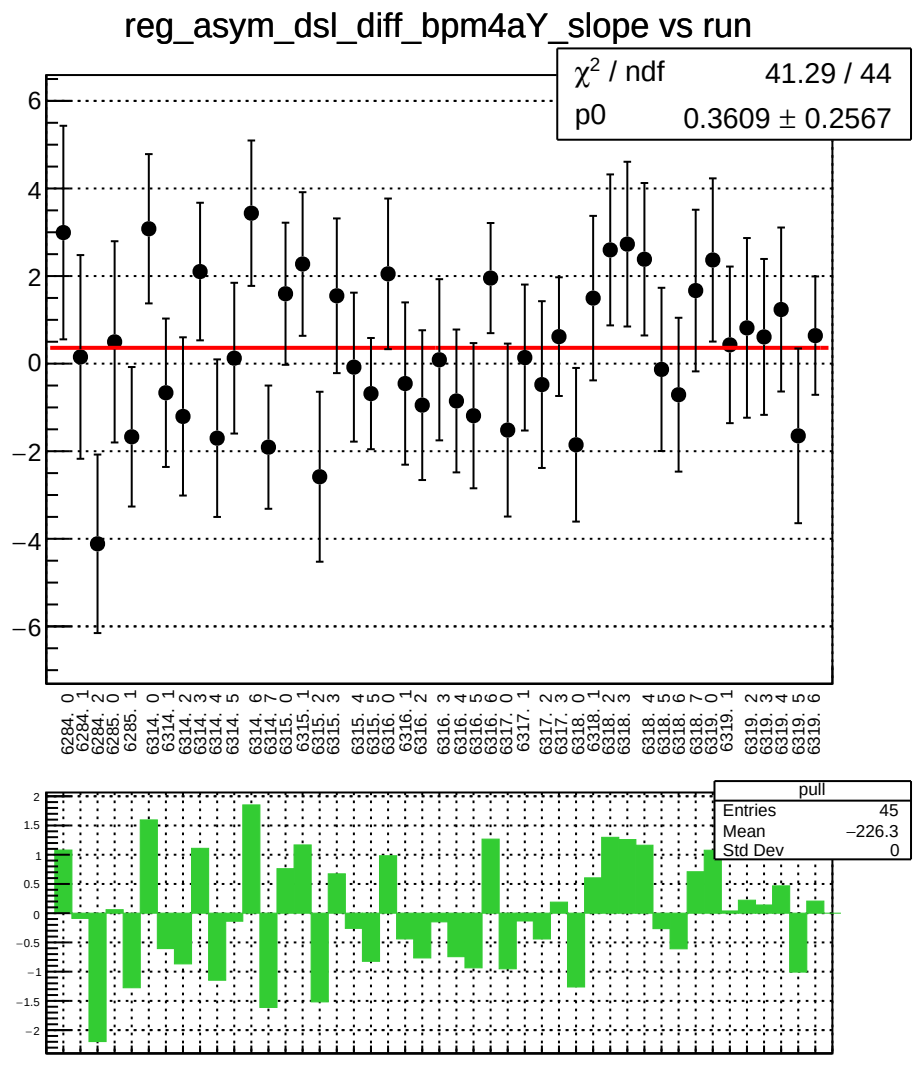

pull1D
Entries 45
Mean 0.06054
Std Dev 0.6586

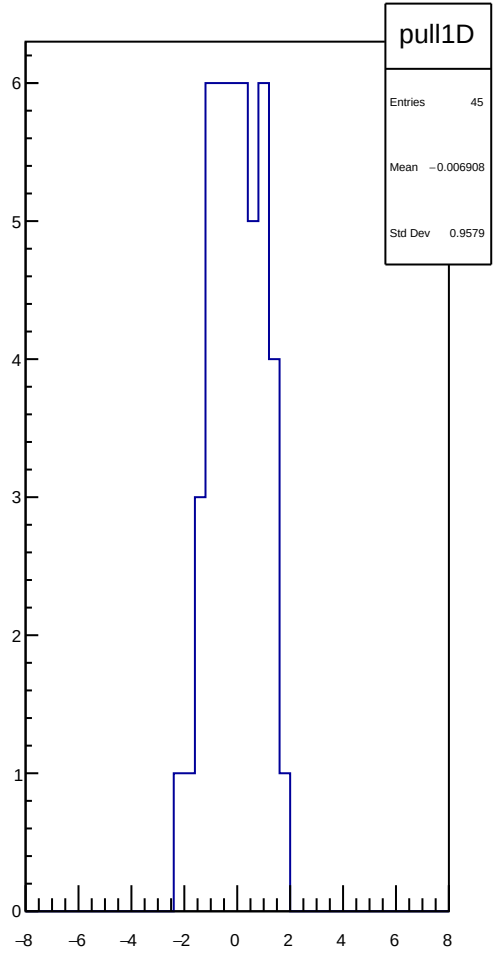

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 18.32 / 44
p0 −42.23 ± 0.2162
−40
−42
−44
−46
−48
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 36.8
Std Dev 43.83
1
0.5
0
−0.5
−1

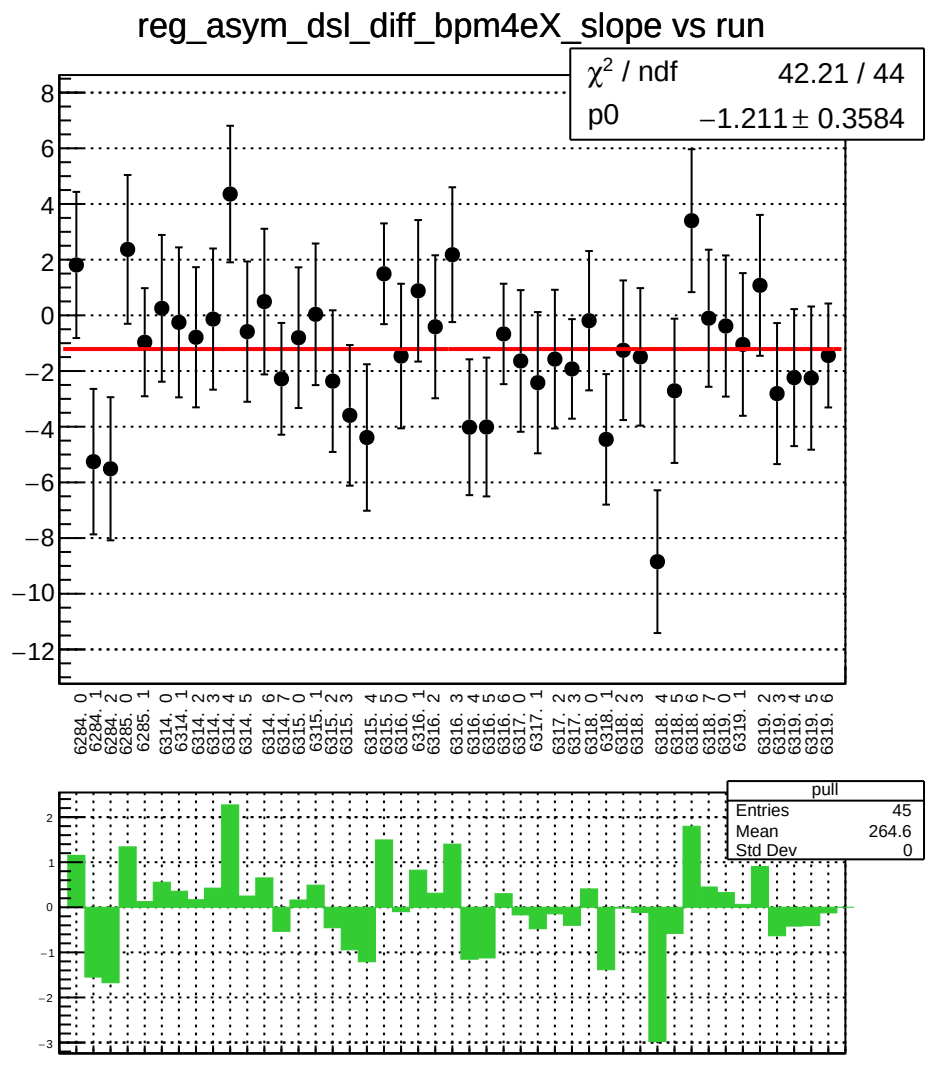

pull1D
Entries 45
Mean −0.02133
Std Dev 0.6377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

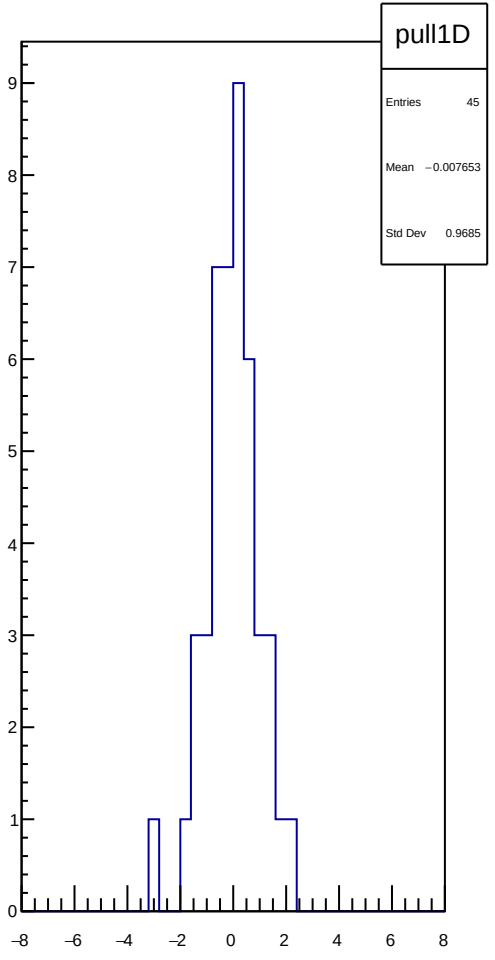

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 44.15 / 44
p0 1.177 ± 0.3496
pull
Entries 45
Mean 257.8
Std Dev 0

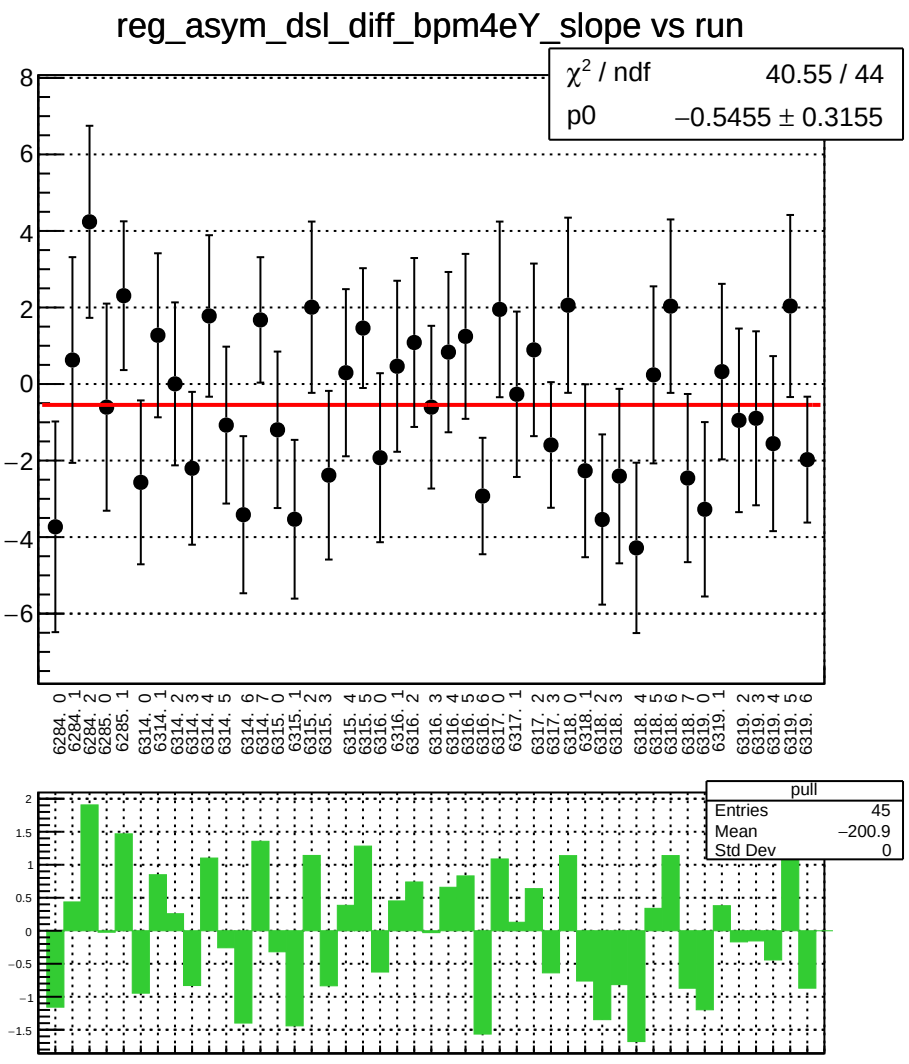

pull1D
Entries 45
Mean 0.008523
Std Dev 0.9905

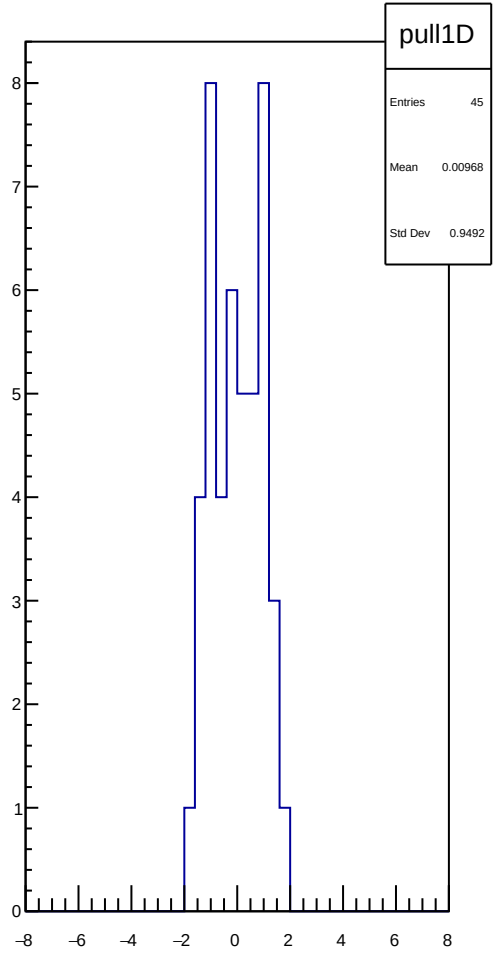

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 41.29 / 44
p0 0.3609 ± 0.2567
pull
Entries 45
Mean −226.3
Std Dev 0

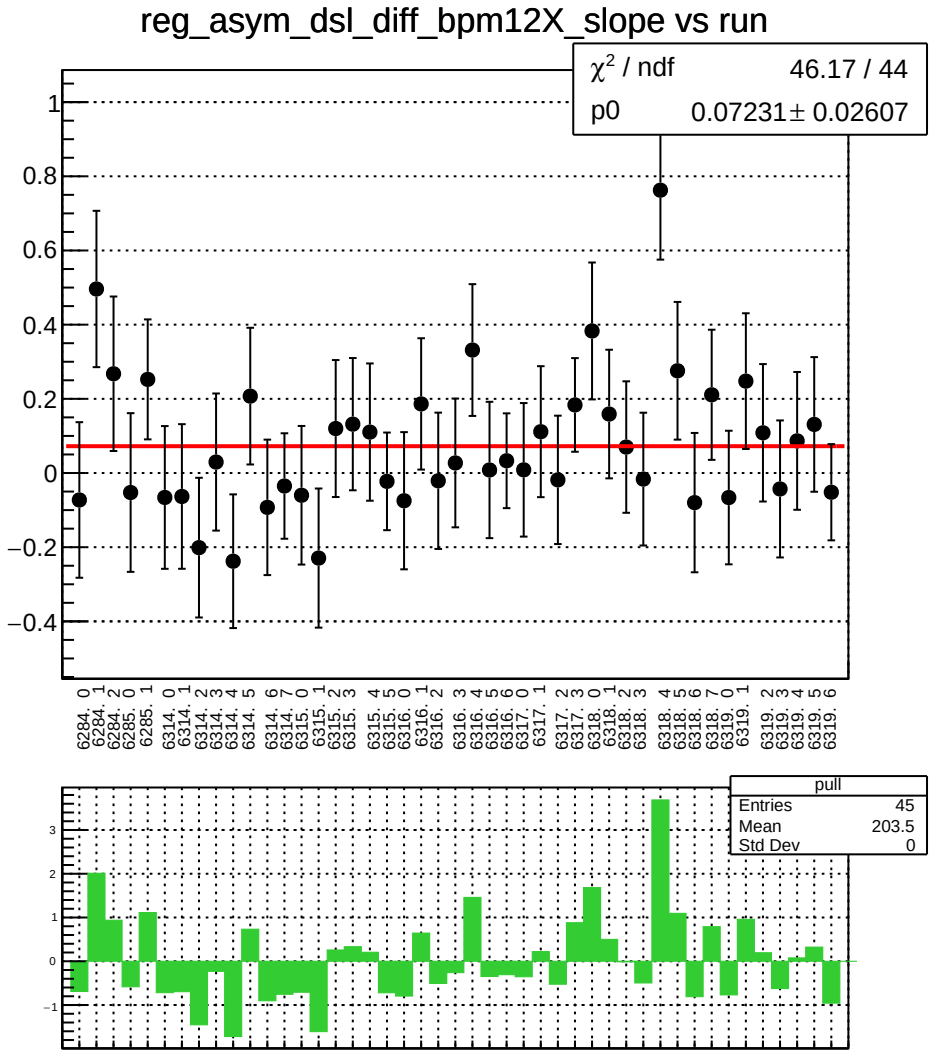

pull1D
Entries 45
Mean −0.006908
Std Dev 0.9579

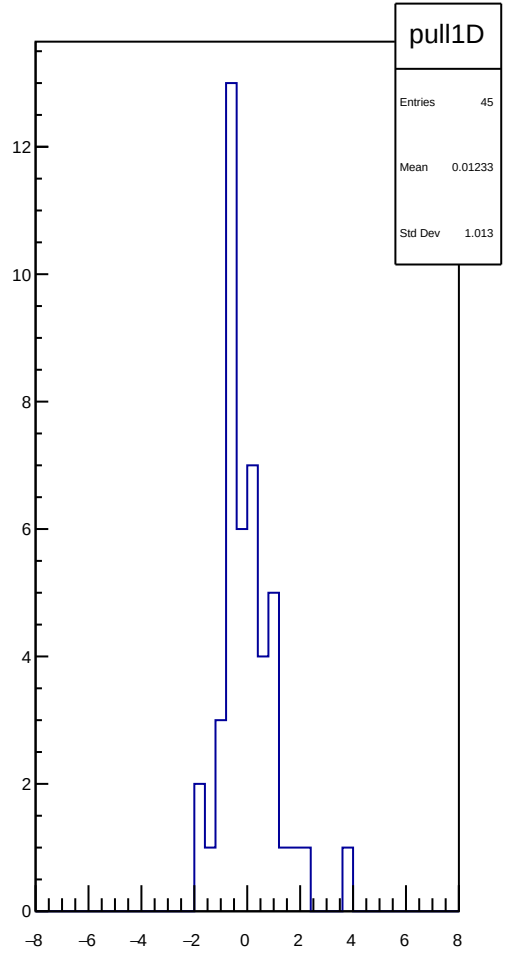

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 42.21 / 44
p0 −1.211 ± 0.3584
pull
Entries 45
Mean 264.6
Std Dev 0

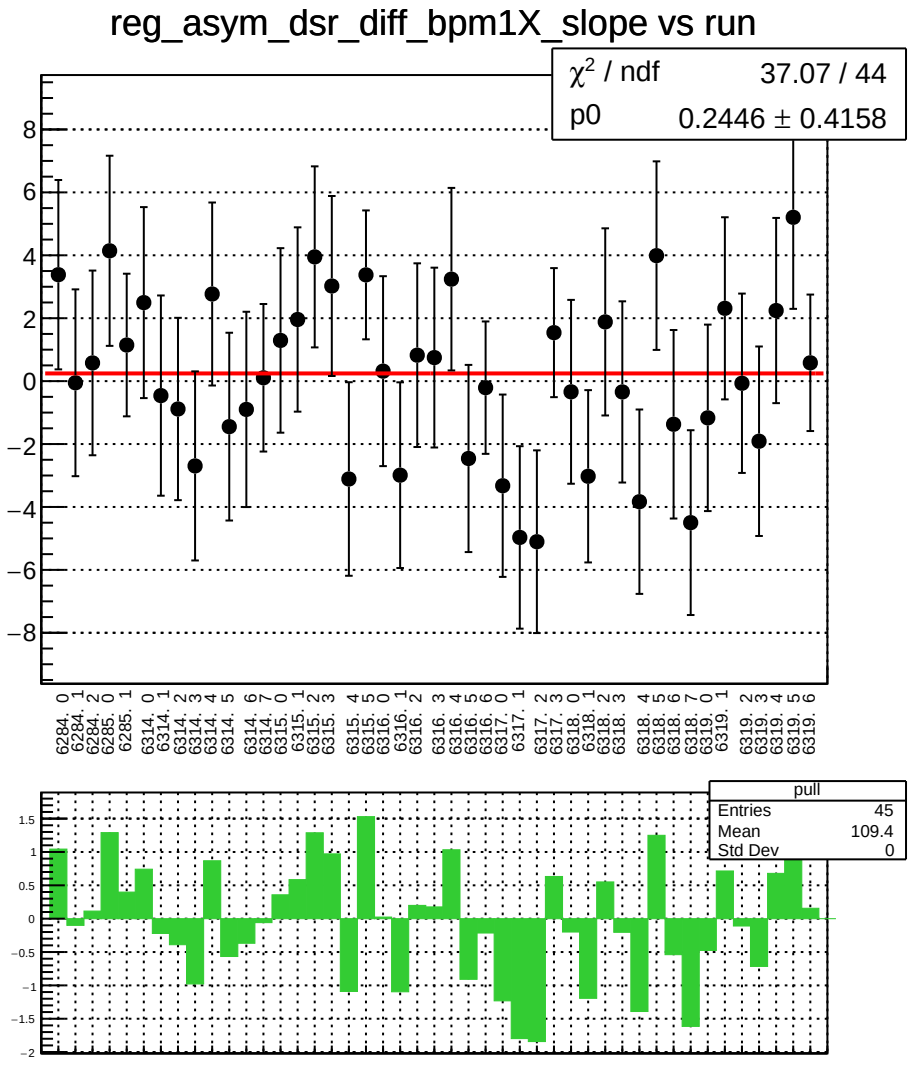

pull1D
Entries 45
Mean −0.007653
Std Dev 0.9685

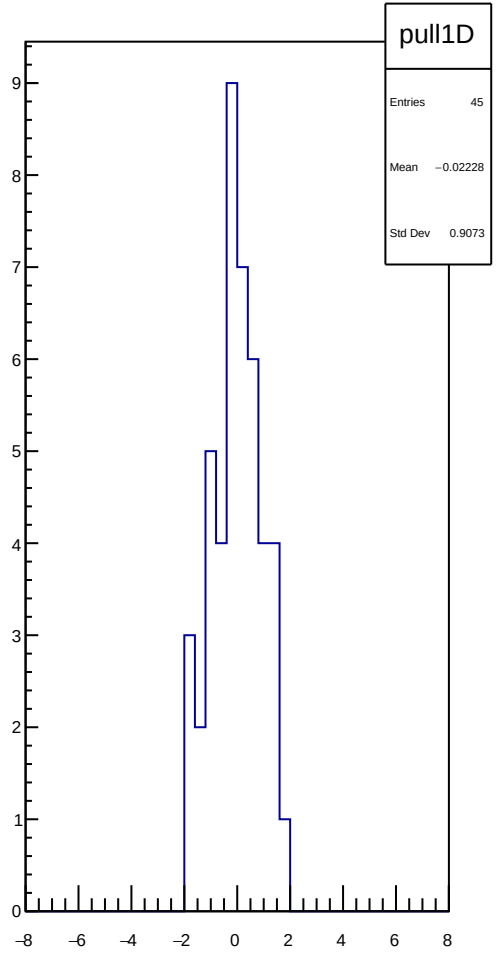

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 40.55 / 44
p0 −0.5455 ± 0.3155
pull
Entries 45
Mean −200.9
Std Dev 0

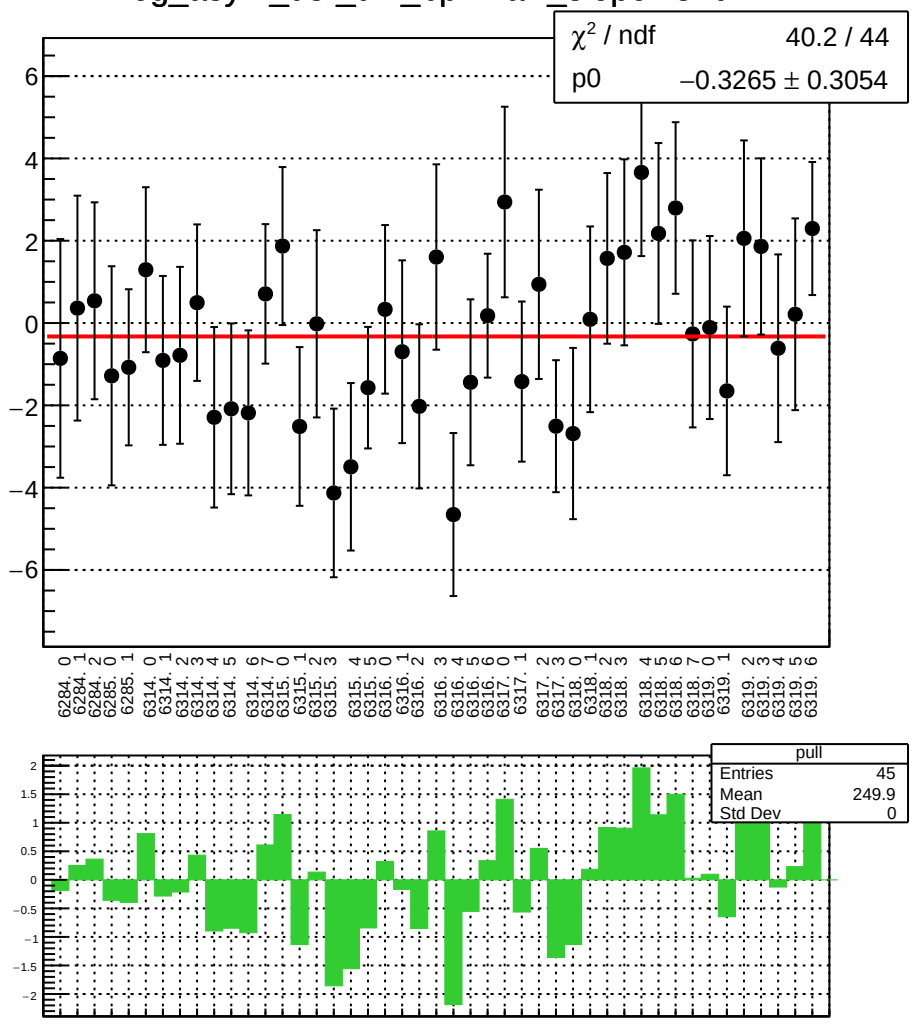

pull1D
Entries 45
Mean 0.00968
Std Dev 0.9492

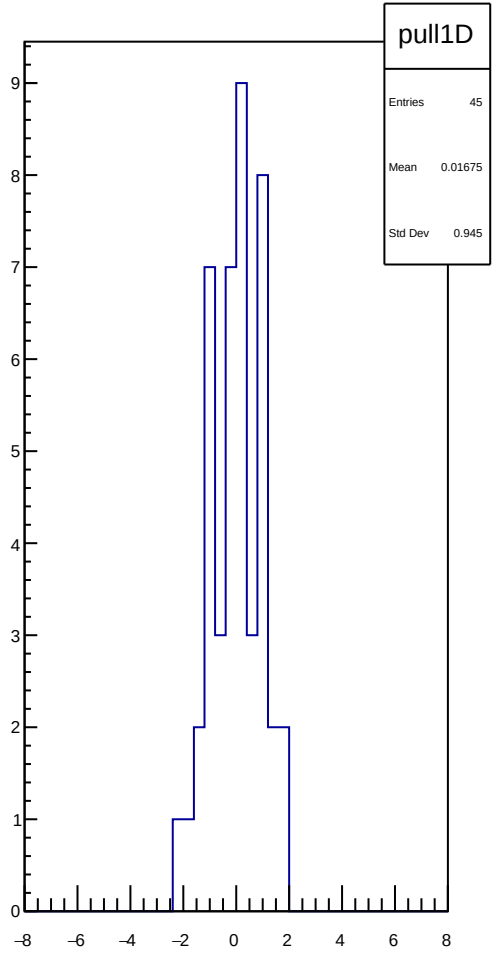

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 46.17 / 44
p0 0.07231± 0.02607
pull
Entries 45
Mean 203.5
Std Dev 0

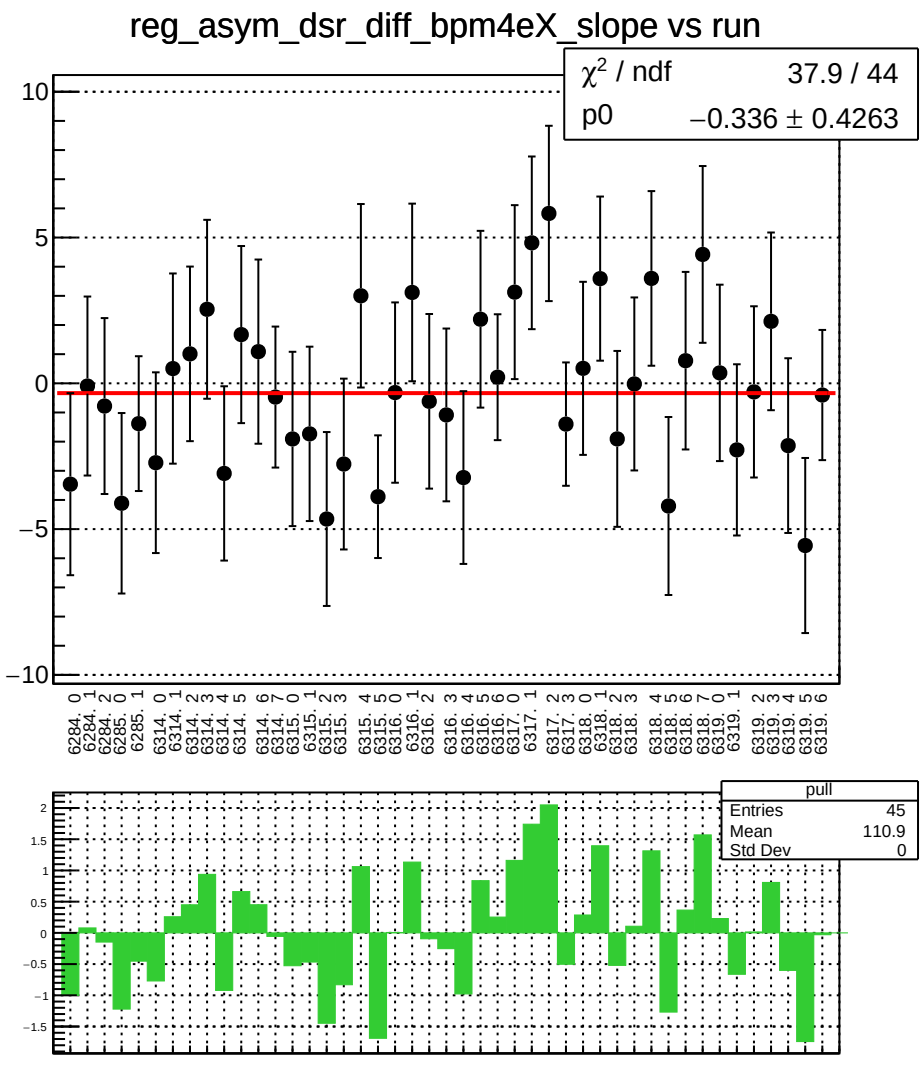

pull1D
Entries 45
Mean 0.01233
Std Dev 1.013

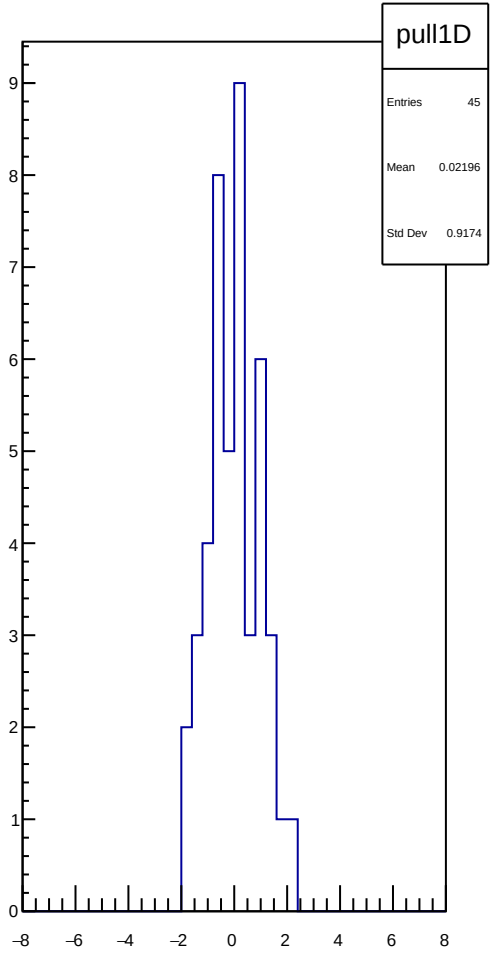

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 37.07 / 44
p0 0.2446 ± 0.4158
pull
Entries 45
Mean 109.4
Std Dev 0

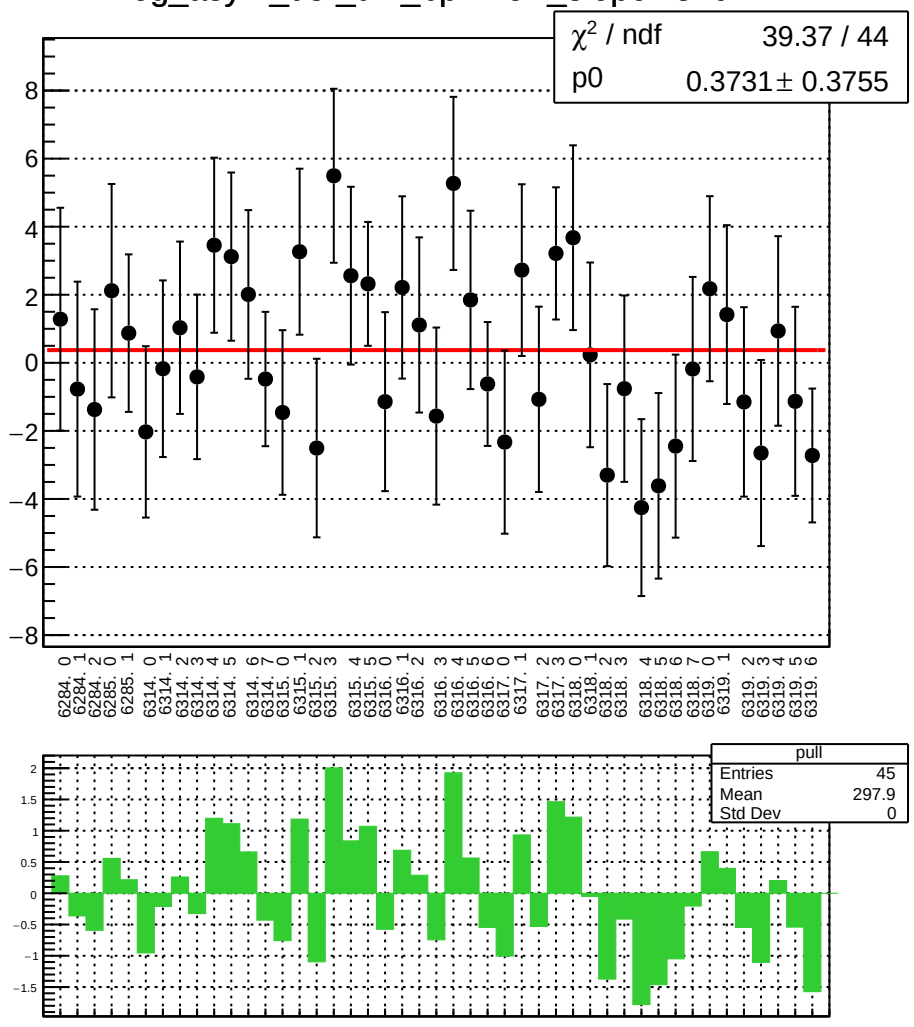

pull1D
Entries 45
Mean −0.02228
Std Dev 0.9073

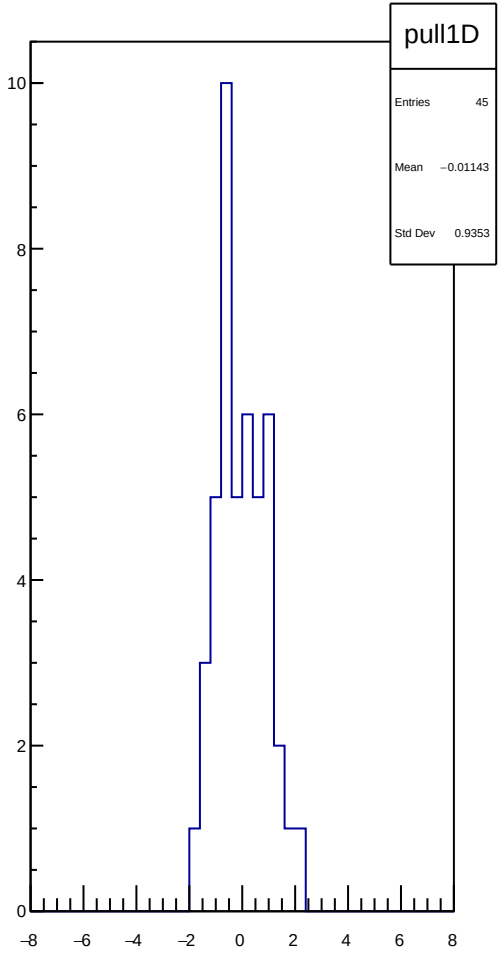

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 40.2 / 44
p0 −0.3265 ± 0.3054
pull
Entries 45
Mean 249.9
Std Dev 0

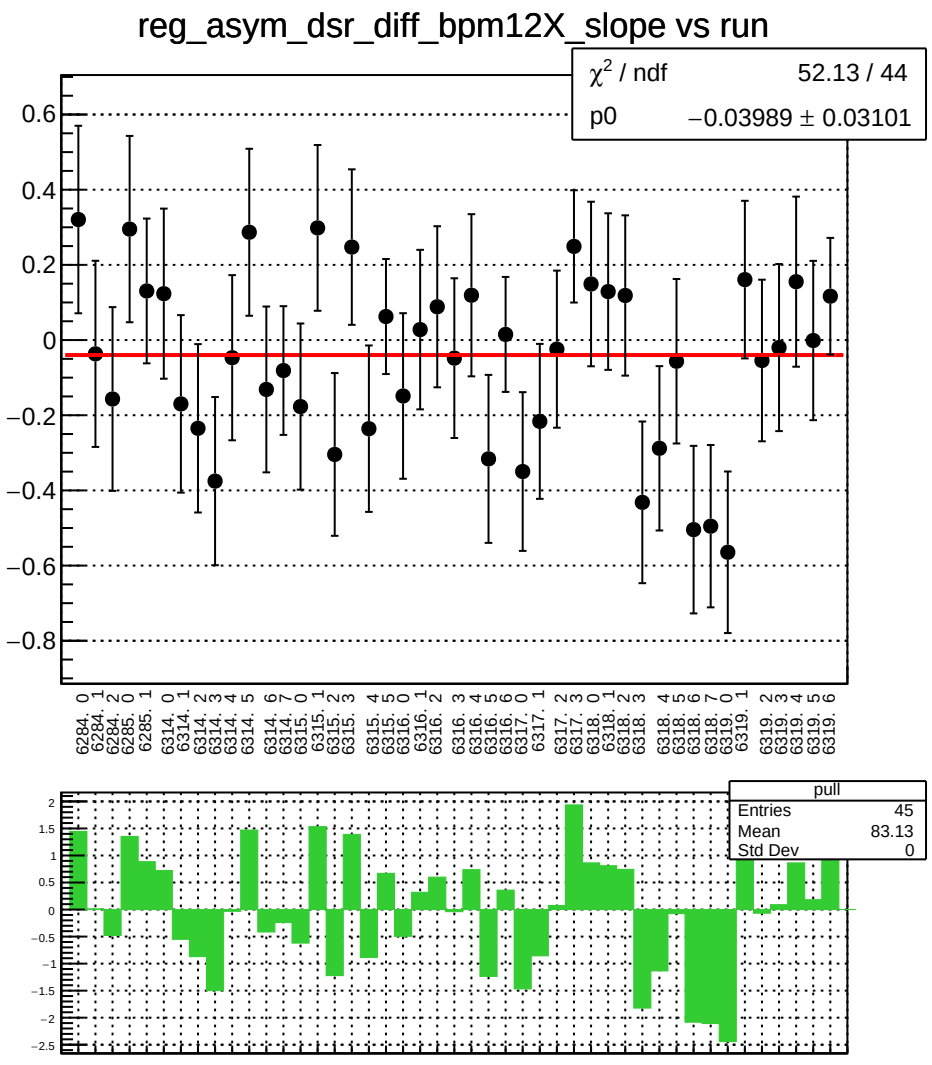

pull1D
Entries 45
Mean 0.01675
Std Dev 0.945

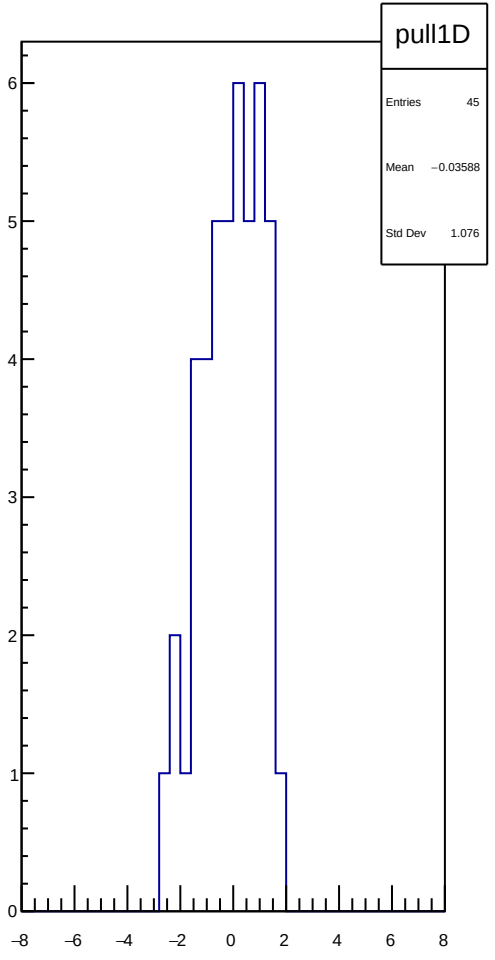

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 37.9 / 44
p0 −0.336 ± 0.4263
pull
Entries 45
Mean 110.9
Std Dev 0

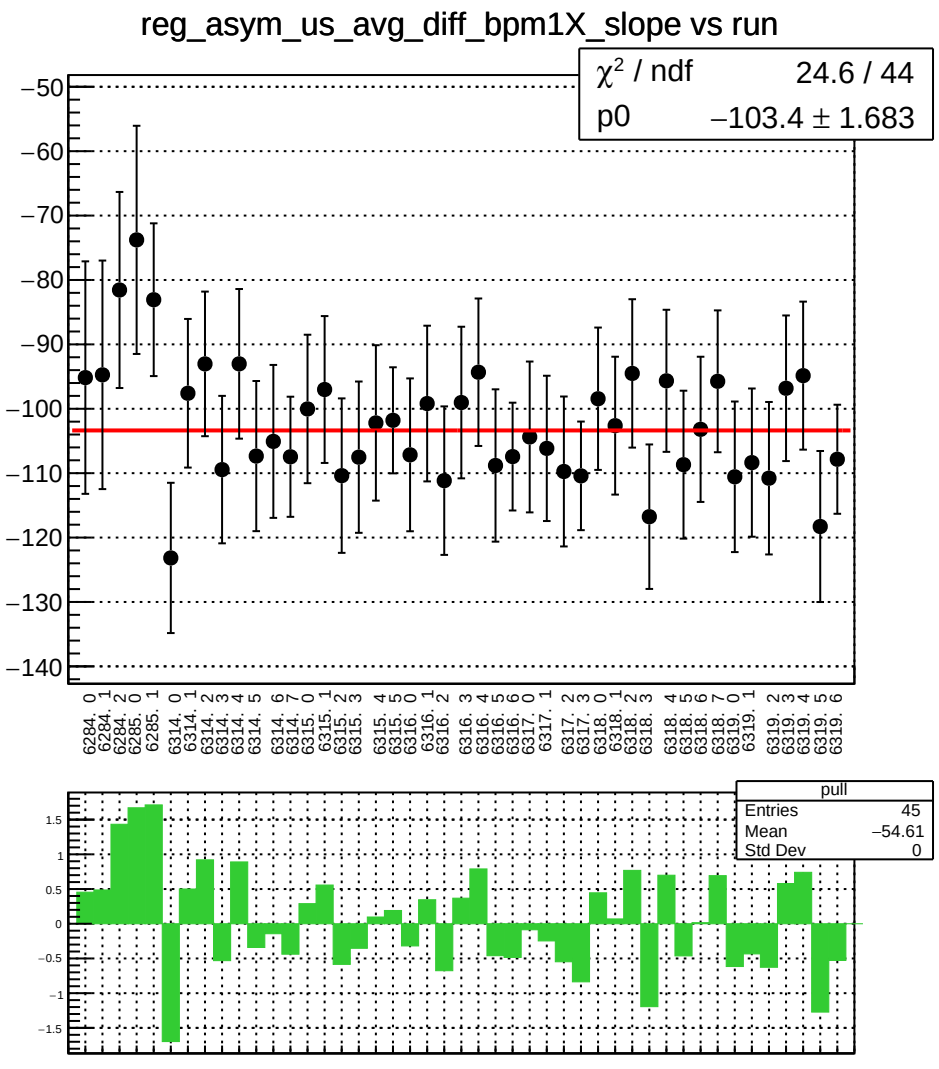

pull1D
Entries 45
Mean 0.02196
Std Dev 0.9174

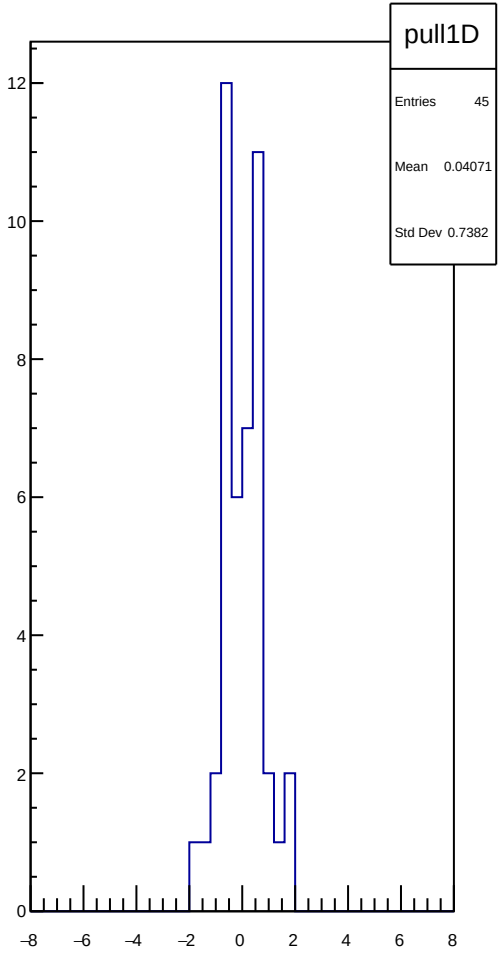

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 39.37 / 44
p0 0.3731 ± 0.3755
pull
Entries 45
Mean 297.9
Std Dev 0

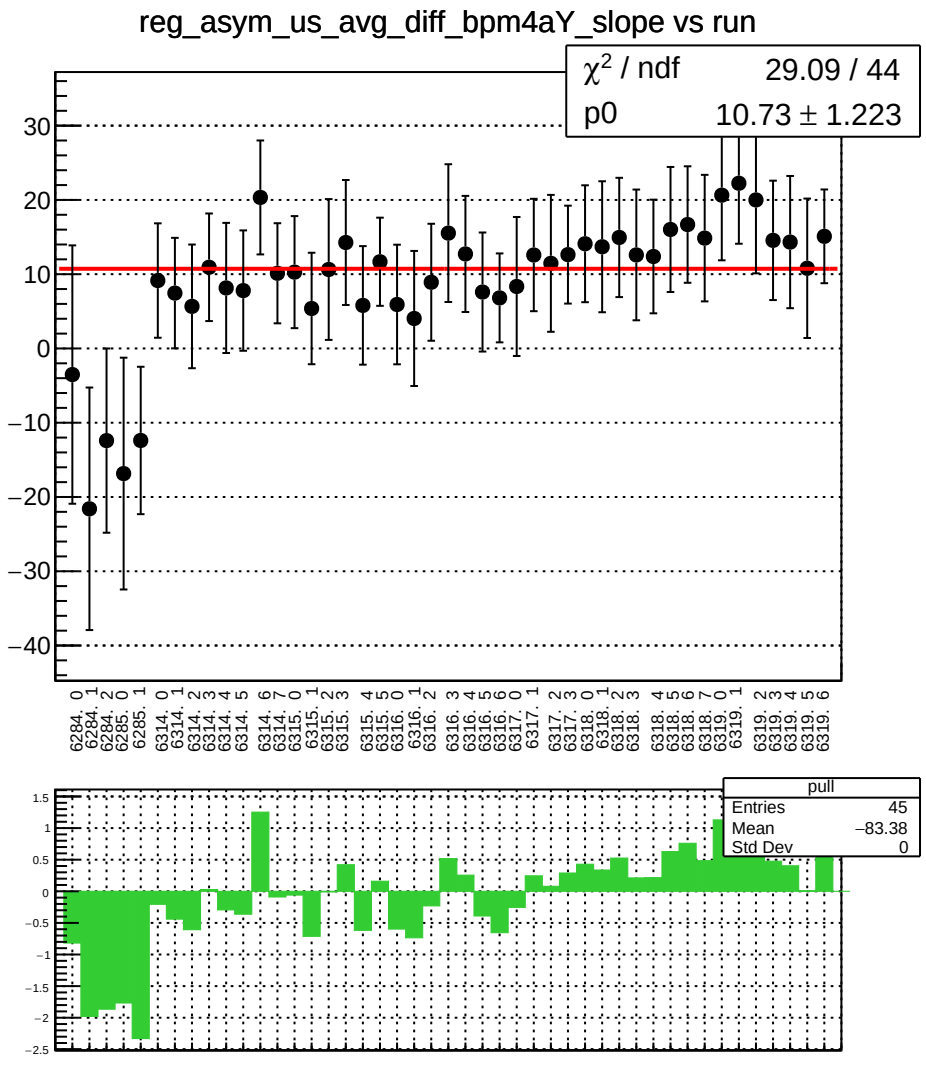

pull1D
Entries 45
Mean −0.01143
Std Dev 0.9353

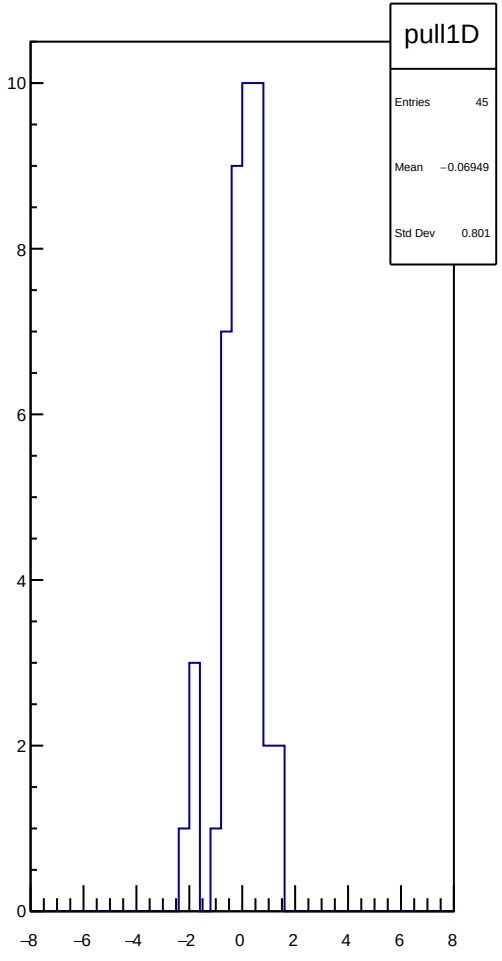

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 52.13 / 44
p0 −0.03989 ± 0.03101
pull
Entries 45
Mean 83.13
Std Dev 0

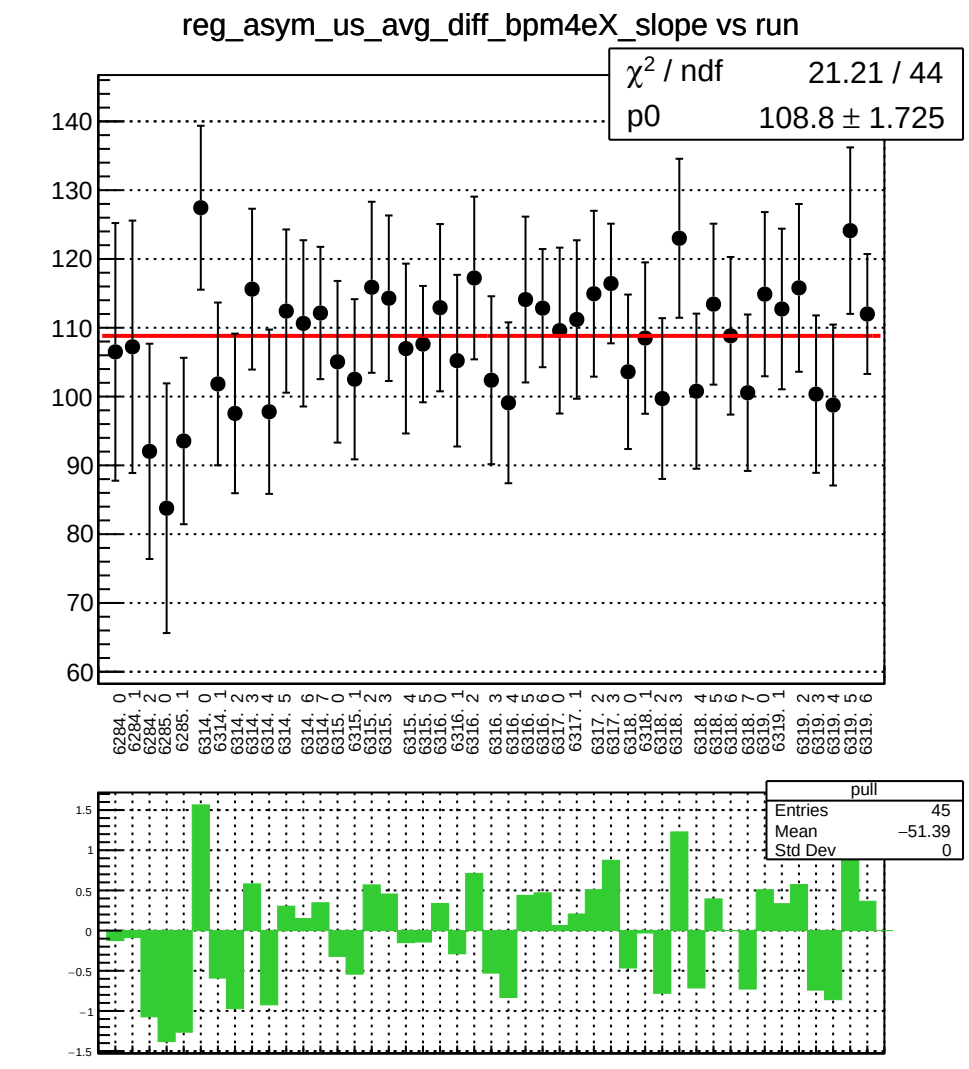

pull1D
Entries 45
Mean −0.03588
Std Dev 1.076

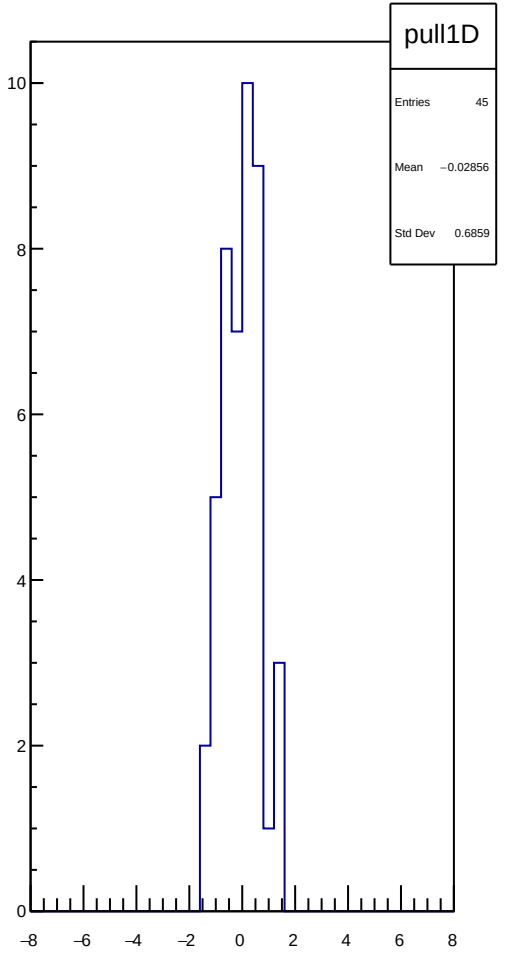

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 24.6 / 44
p0 −103.4 ± 1.683
pull
Entries 45
Mean −54.61
Std Dev 0

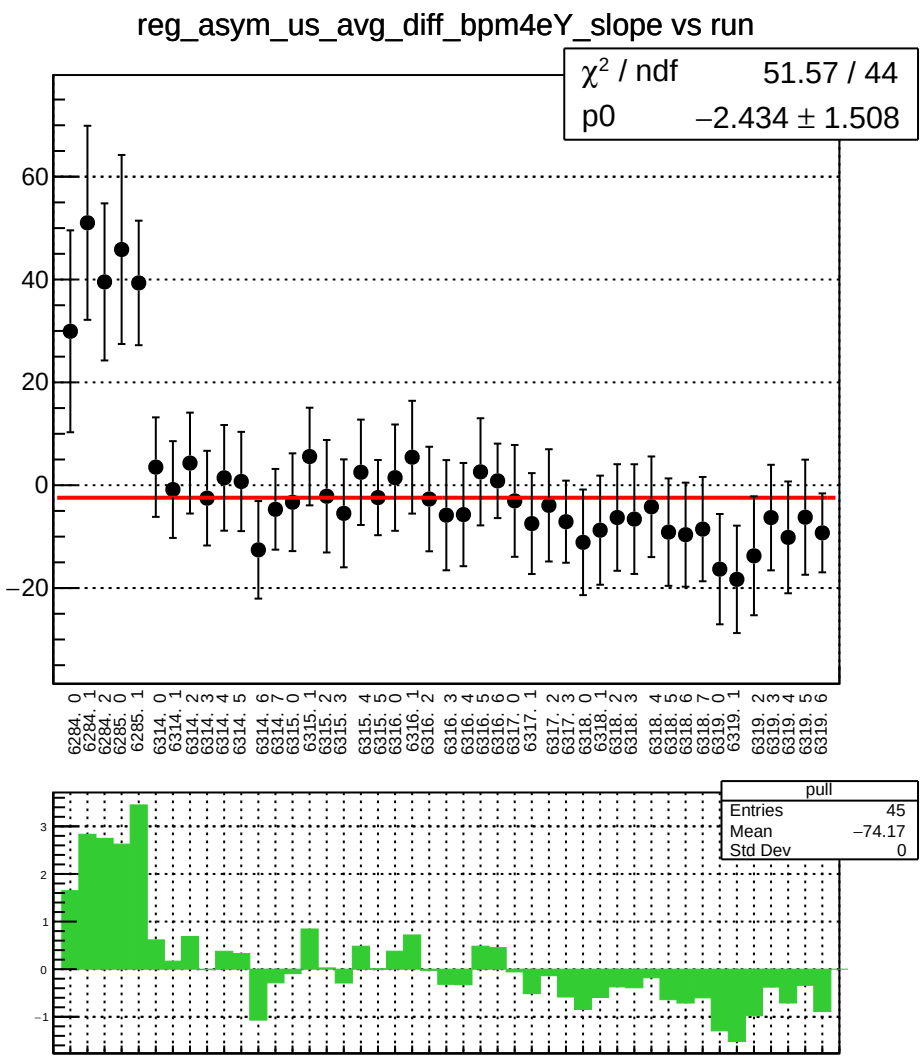

pull1D
Entries 45
Mean 0.04071
Std Dev 0.7382

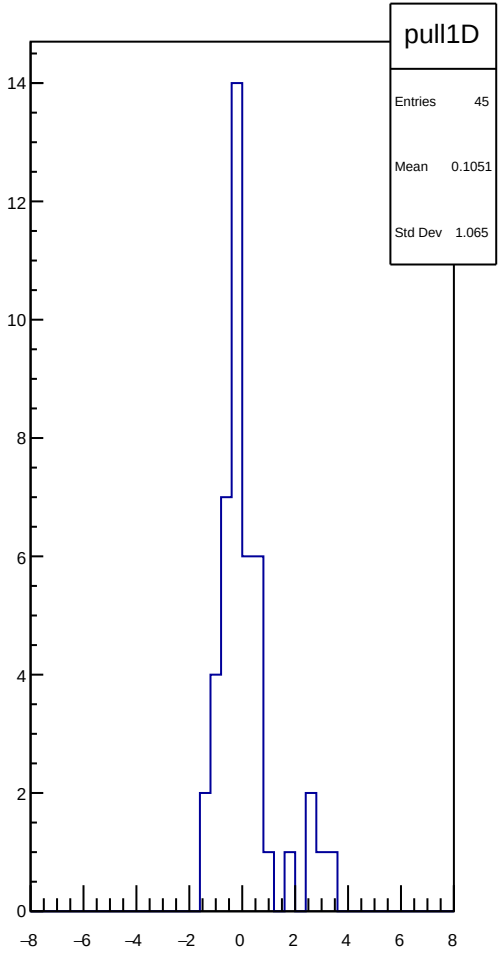

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.09 / 44
p0 10.73 ± 1.223
pull
Entries 45
Mean −83.38
Std Dev 0

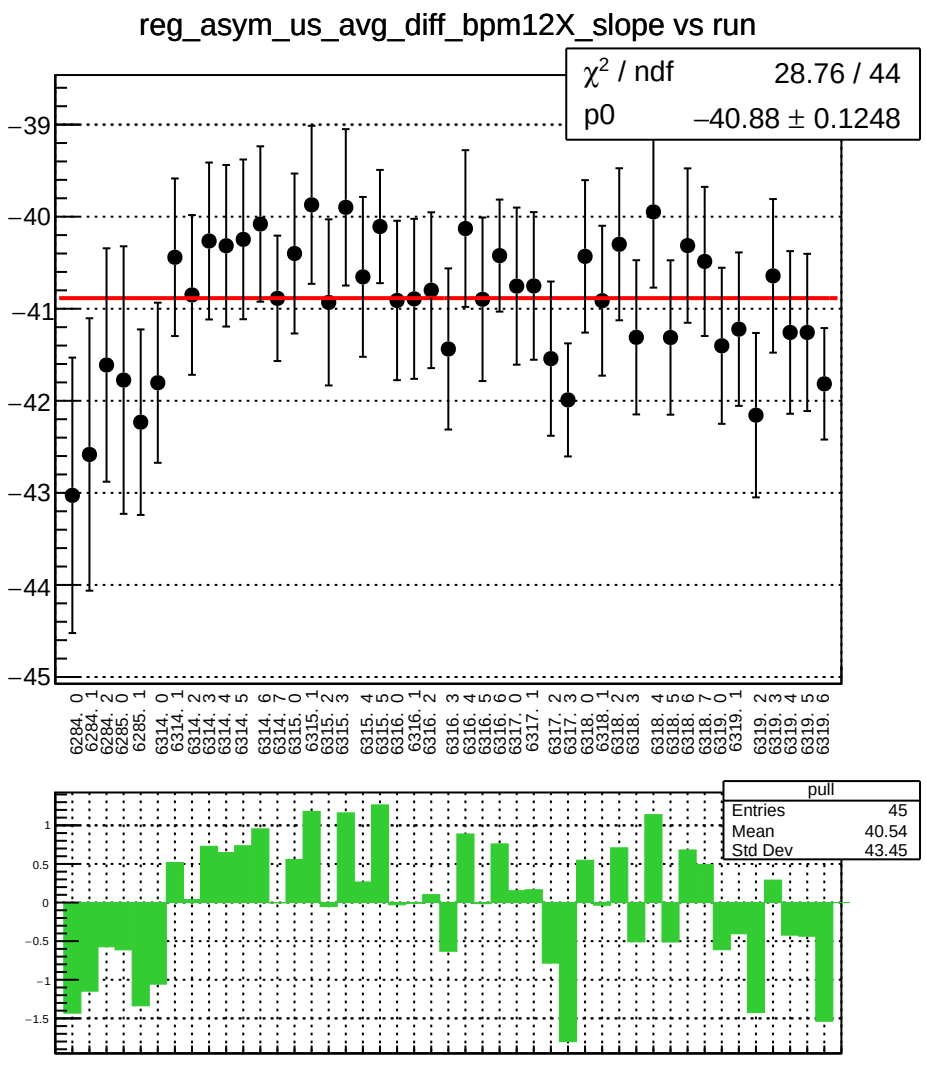

pull1D
Entries 45
Mean −0.06949
Std Dev 0.801

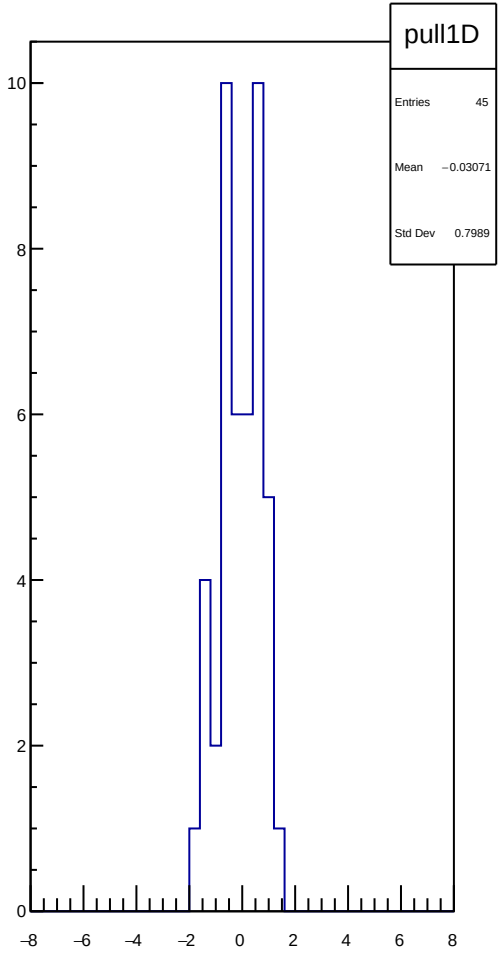

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.21 / 44
p0 108.8 ± 1.725
140
130
120
110
100
90
80
70
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −51.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

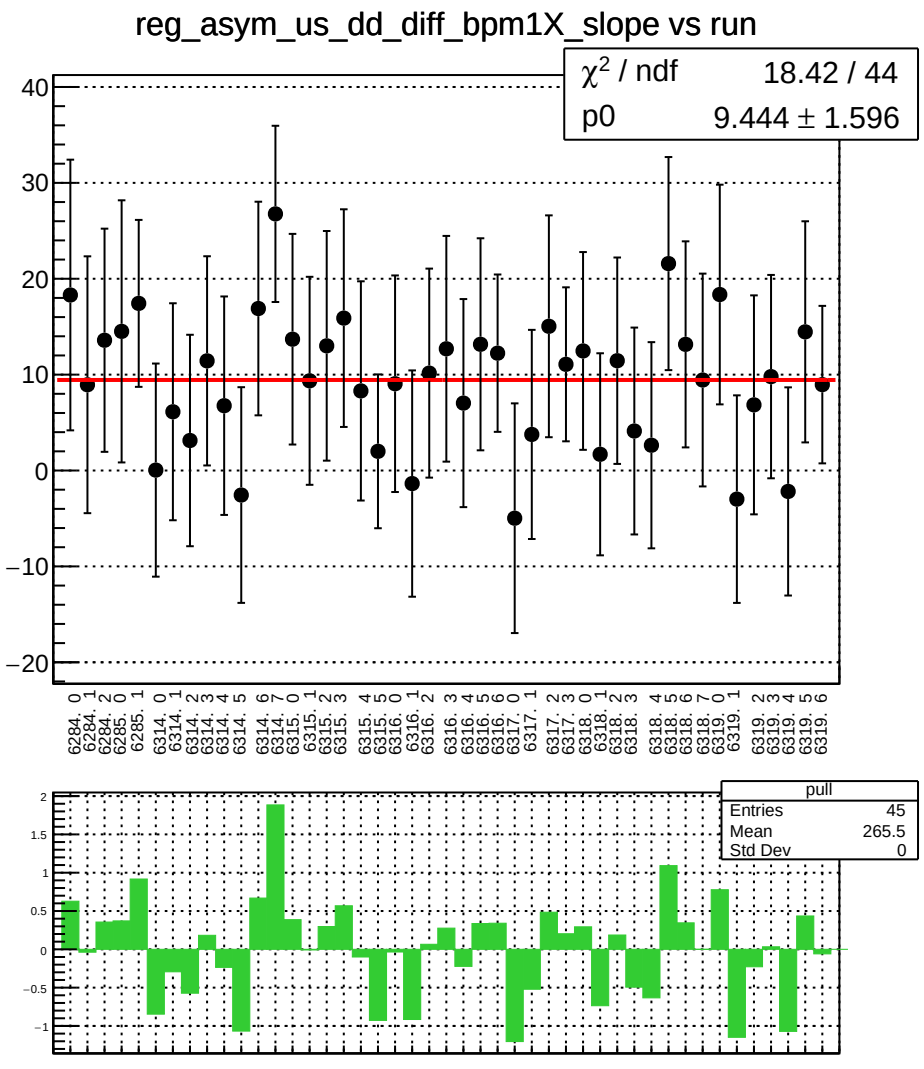

pull1D
Entries 45
Mean −0.02856
Std Dev 0.6859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

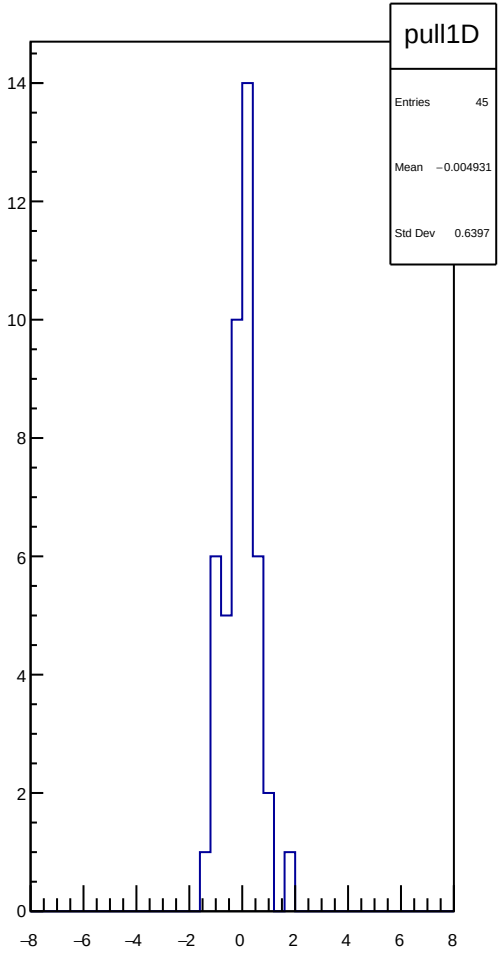

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.57 / 44
p0 −2.434 ± 1.508
60
40
20
0
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −74.17
Std Dev 0
3
2
1
0
−1

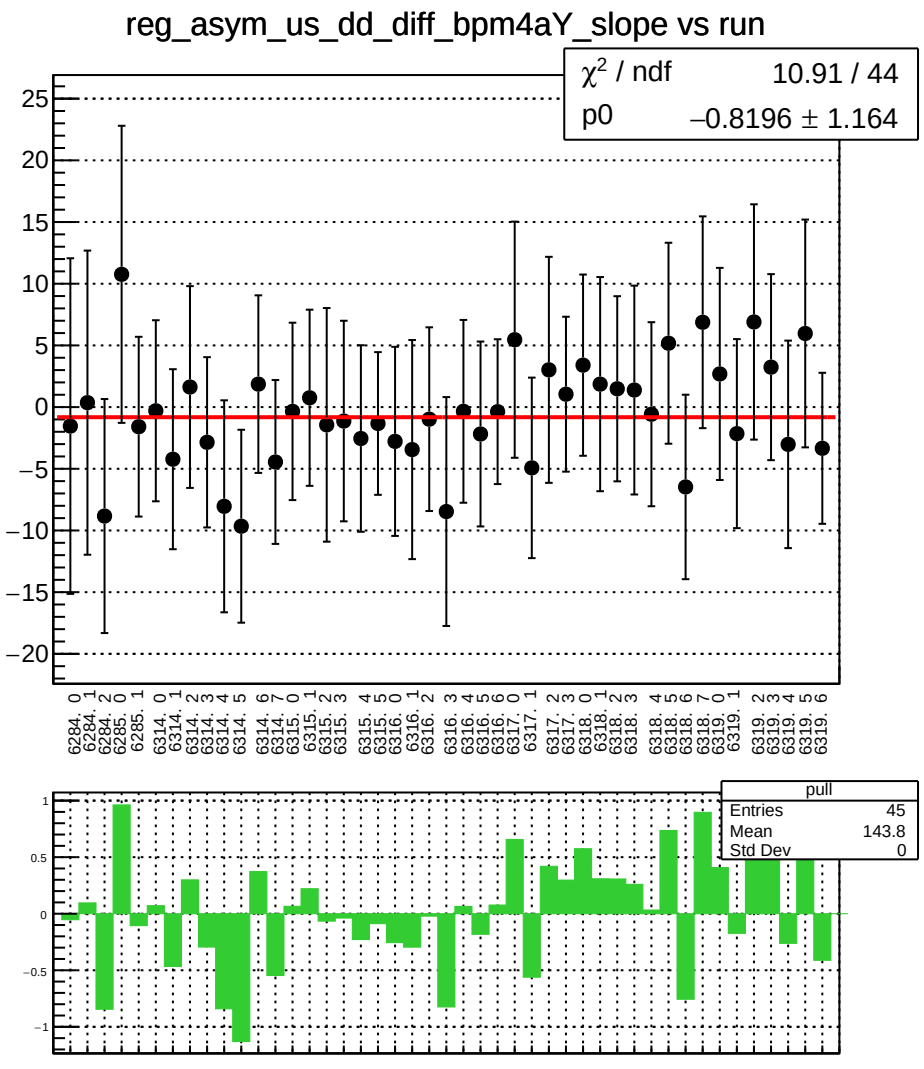

pull1D
Entries 45
Mean 0.1051
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

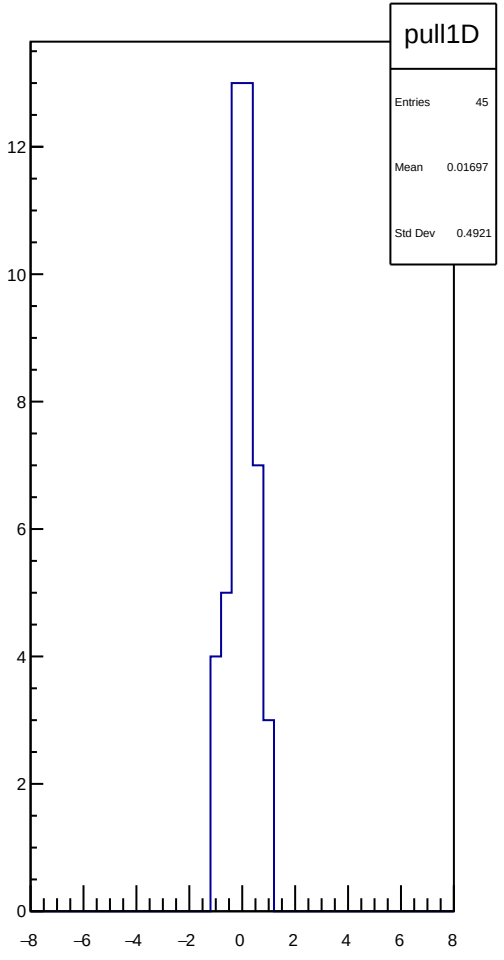

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 28.76 / 44
p0 −40.88 ± 0.1248
pull
Entries 45
Mean 40.54
Std Dev 43.45

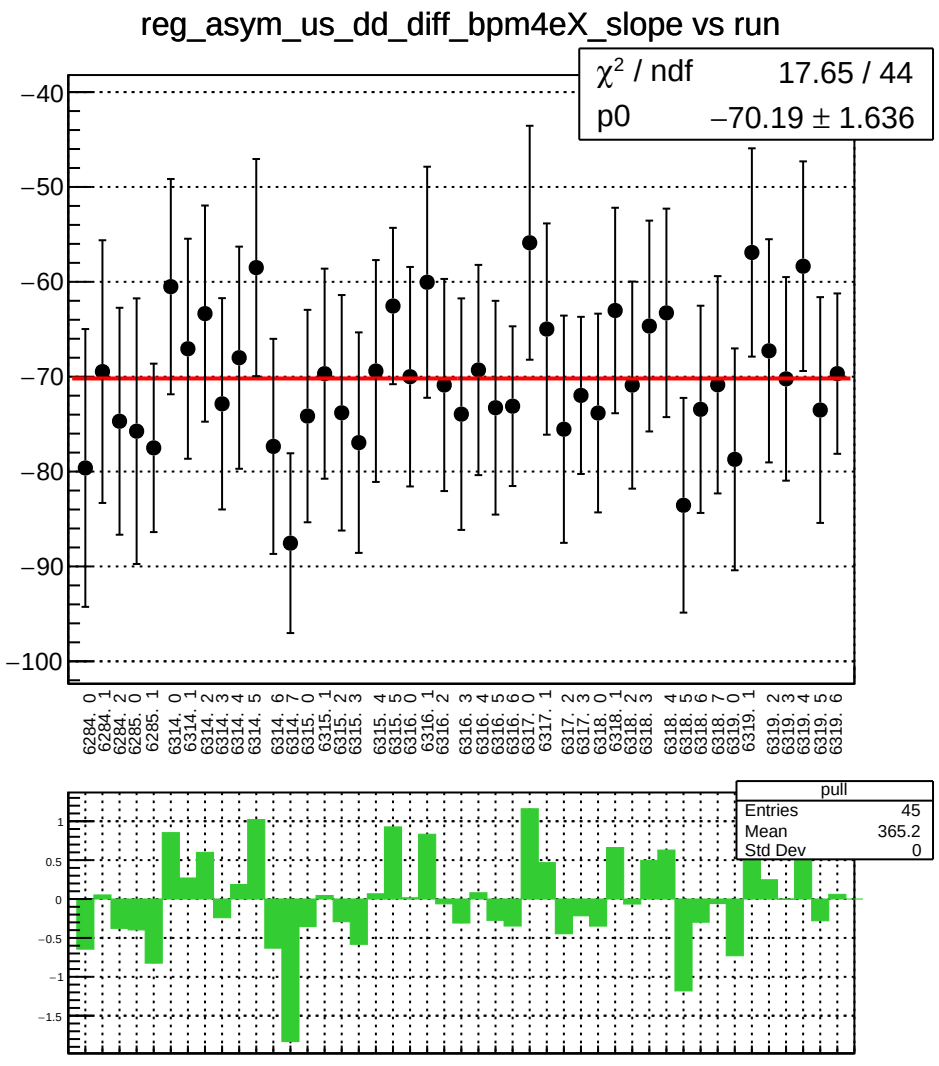

pull1D
Entries 45
Mean −0.03071
Std Dev 0.7989

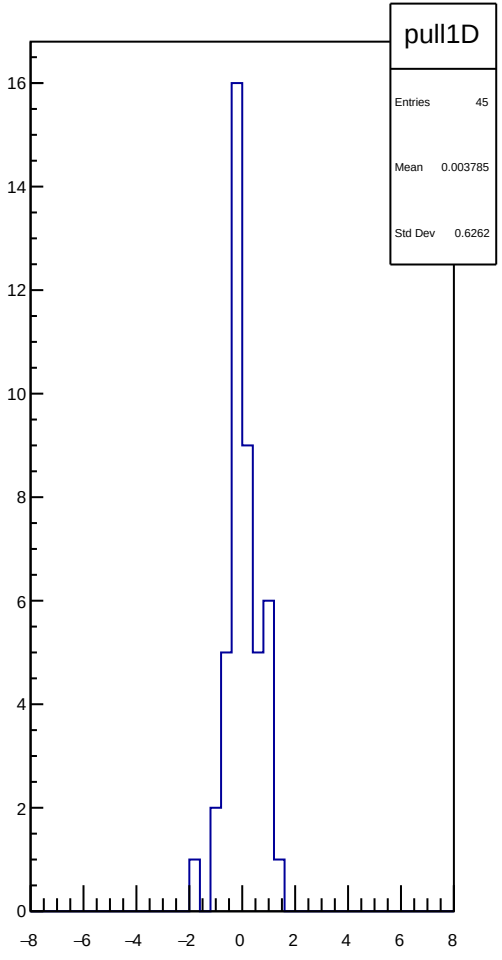

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 18.42 / 44
p0 9.444 ± 1.596
pull
Entries 45
Mean 265.5
Std Dev 0

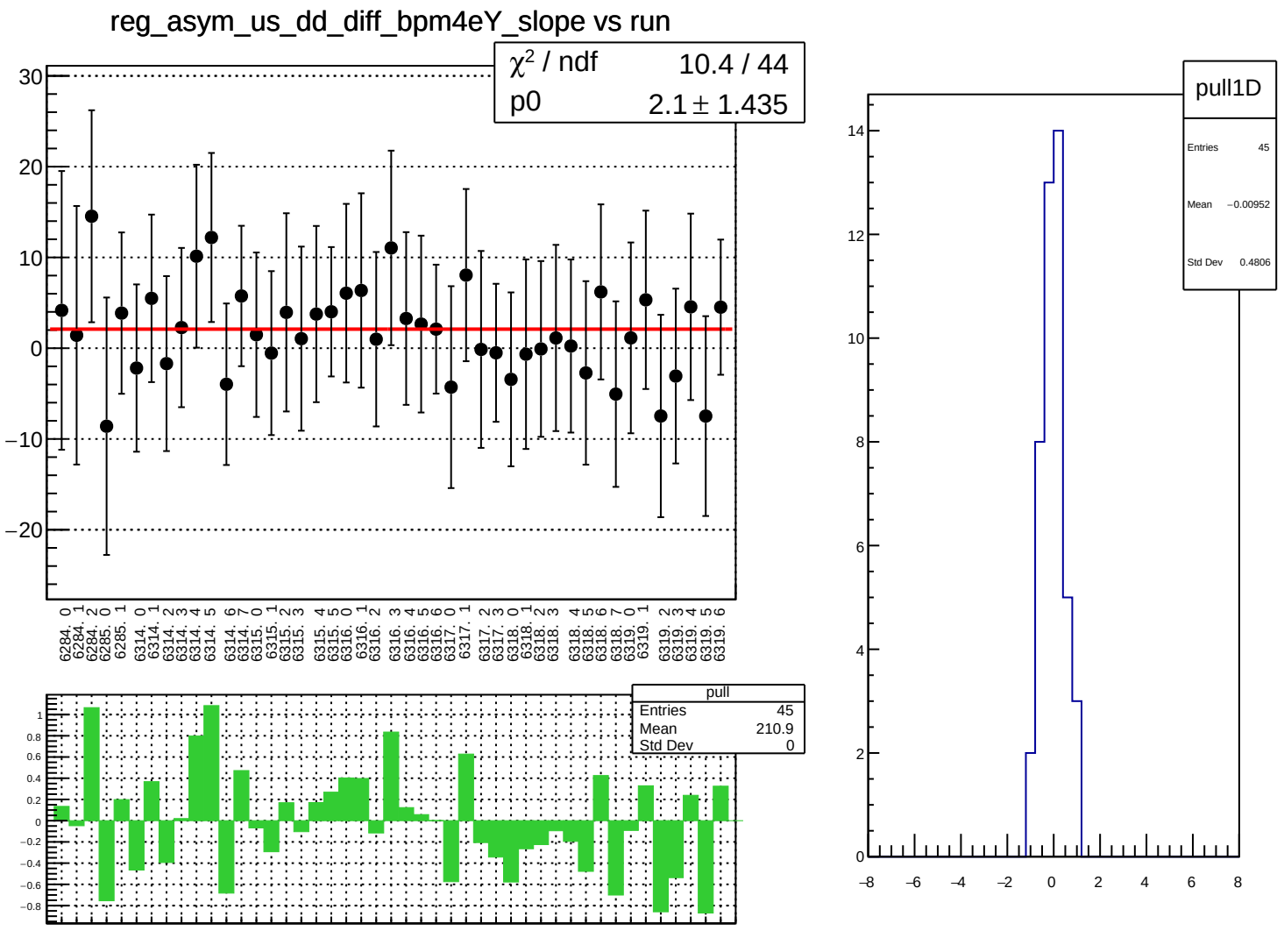

pull1D
Entries 45
Mean −0.004931
Std Dev 0.6397

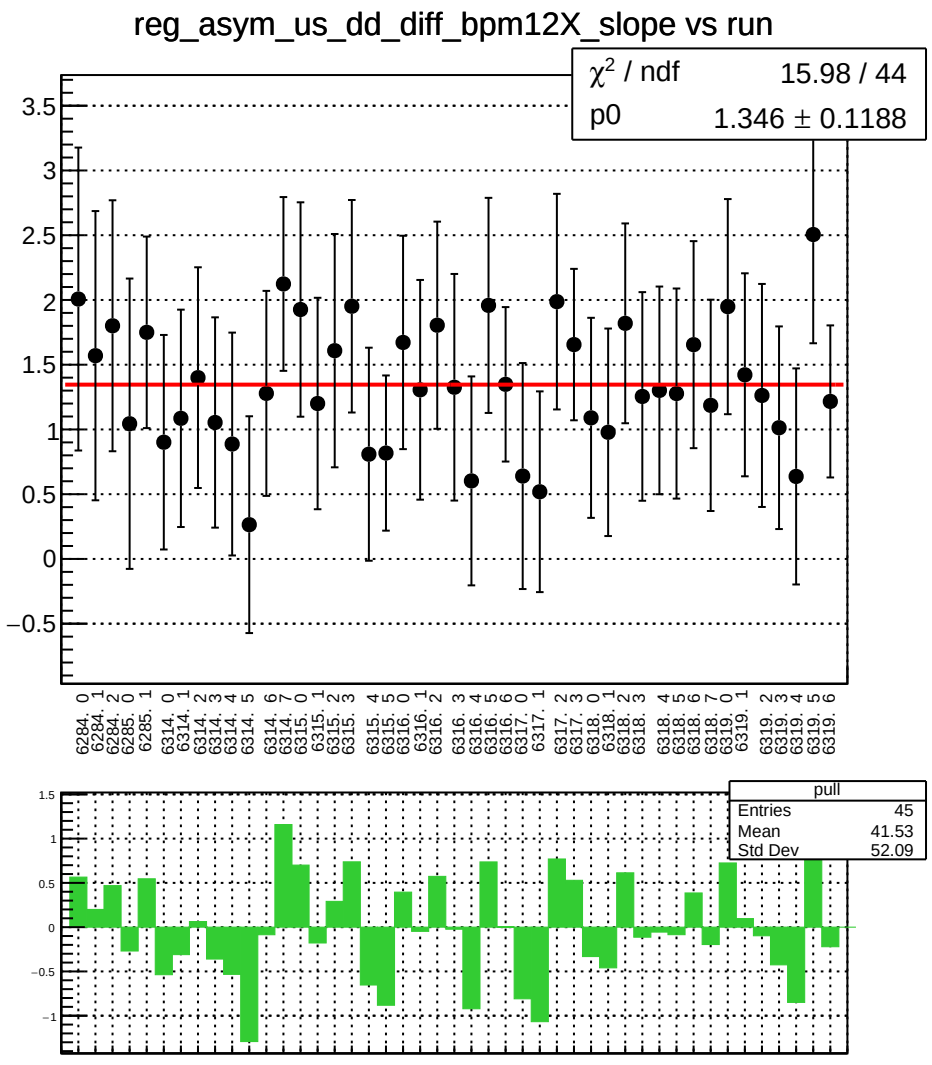

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.91 / 44
p0 −0.8196 ± 1.164
pull
Entries 45
Mean 143.8
Std Dev 0

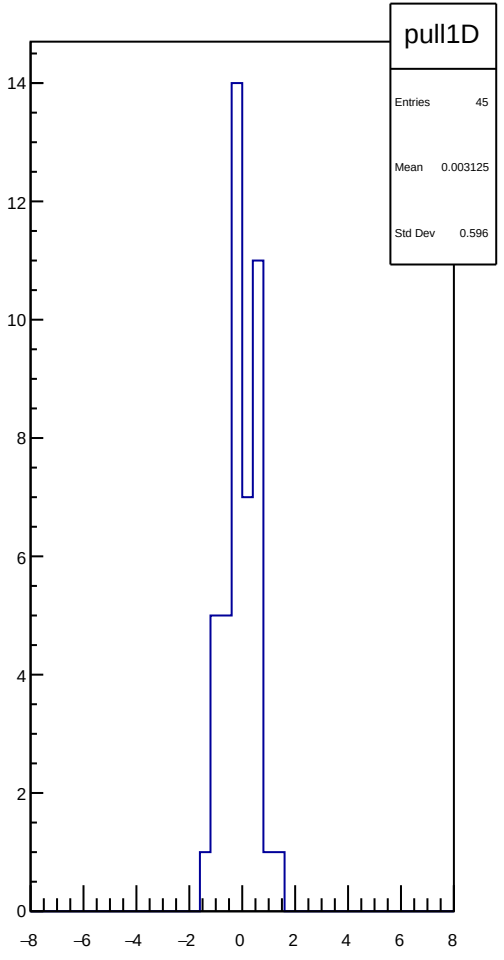

pull1D
Entries 45
Mean 0.01697
Std Dev 0.4921

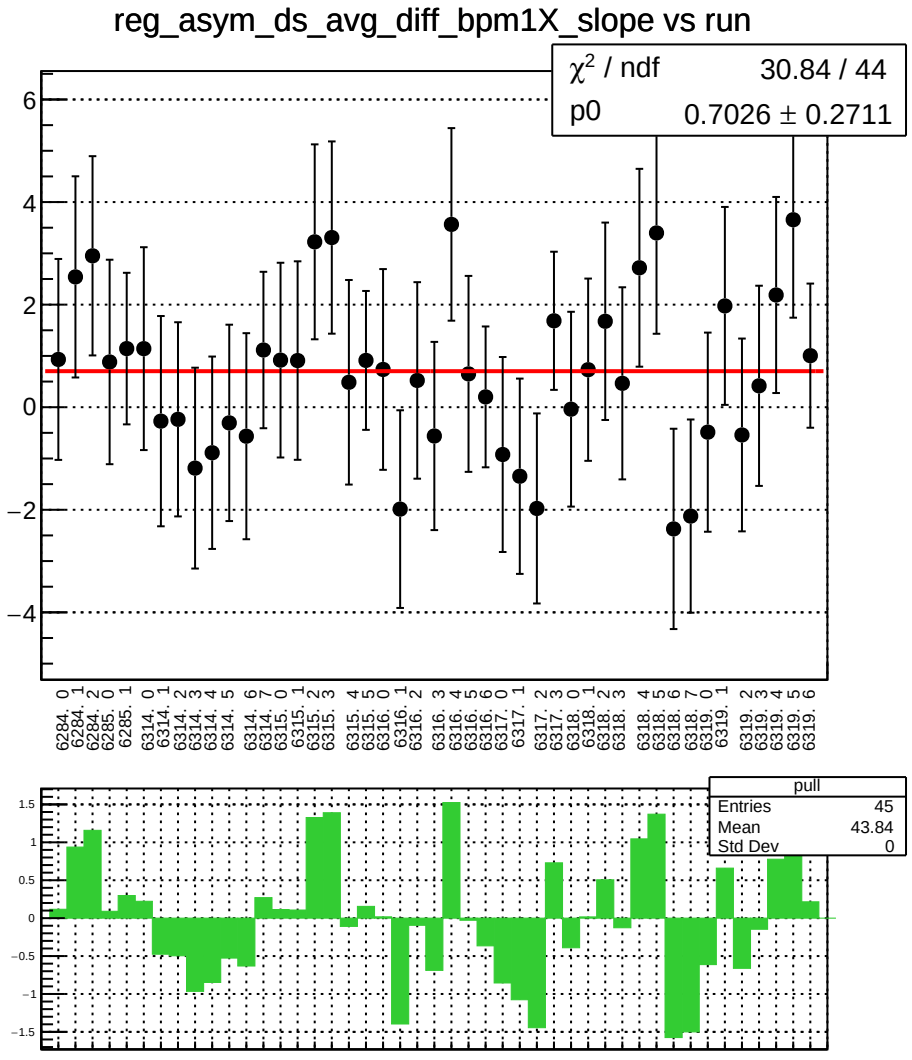

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.65 / 44
p0 −70.19 ± 1.636
−40
−50
−60
−70
−80
−90
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 365.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

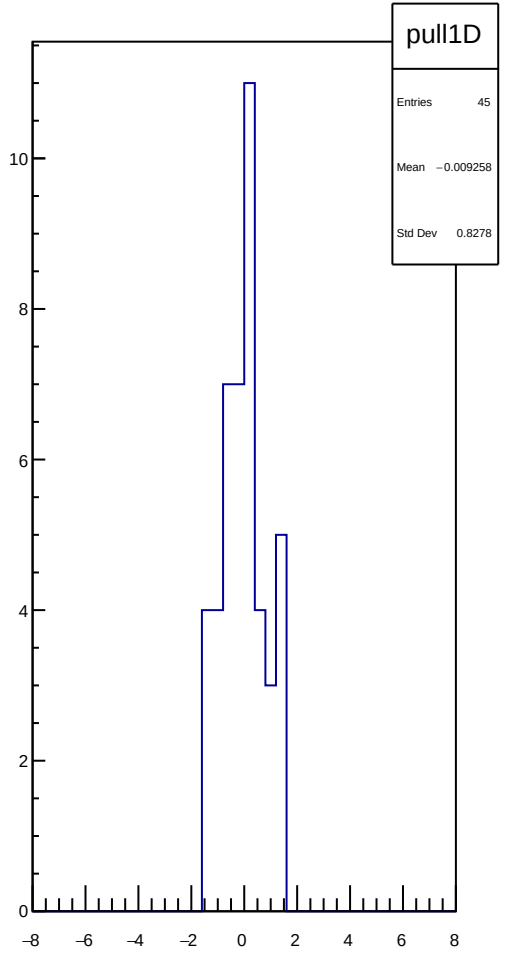

pull1D
Entries 45
Mean 0.003785
Std Dev 0.6262
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

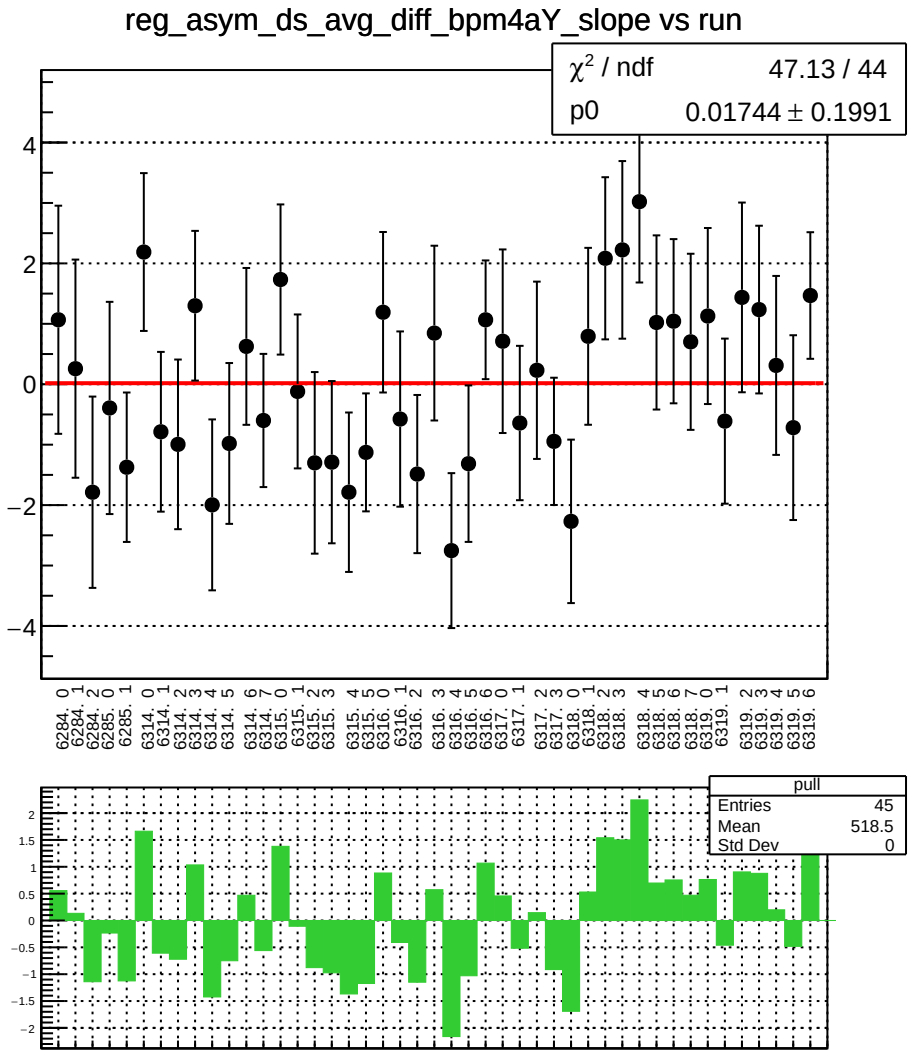

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.4 / 44
p0 2.1 ± 1.435
30
20
10
0
−10
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 210.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.00952
Std Dev 0.4806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

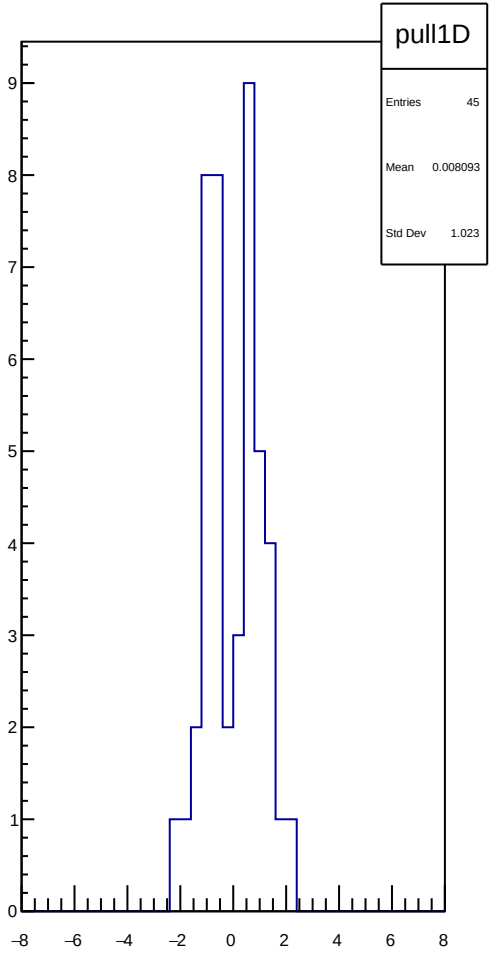

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 15.98 / 44
p0 1.346 ± 0.1188
pull
Entries 45
Mean 41.53
Std Dev 52.09

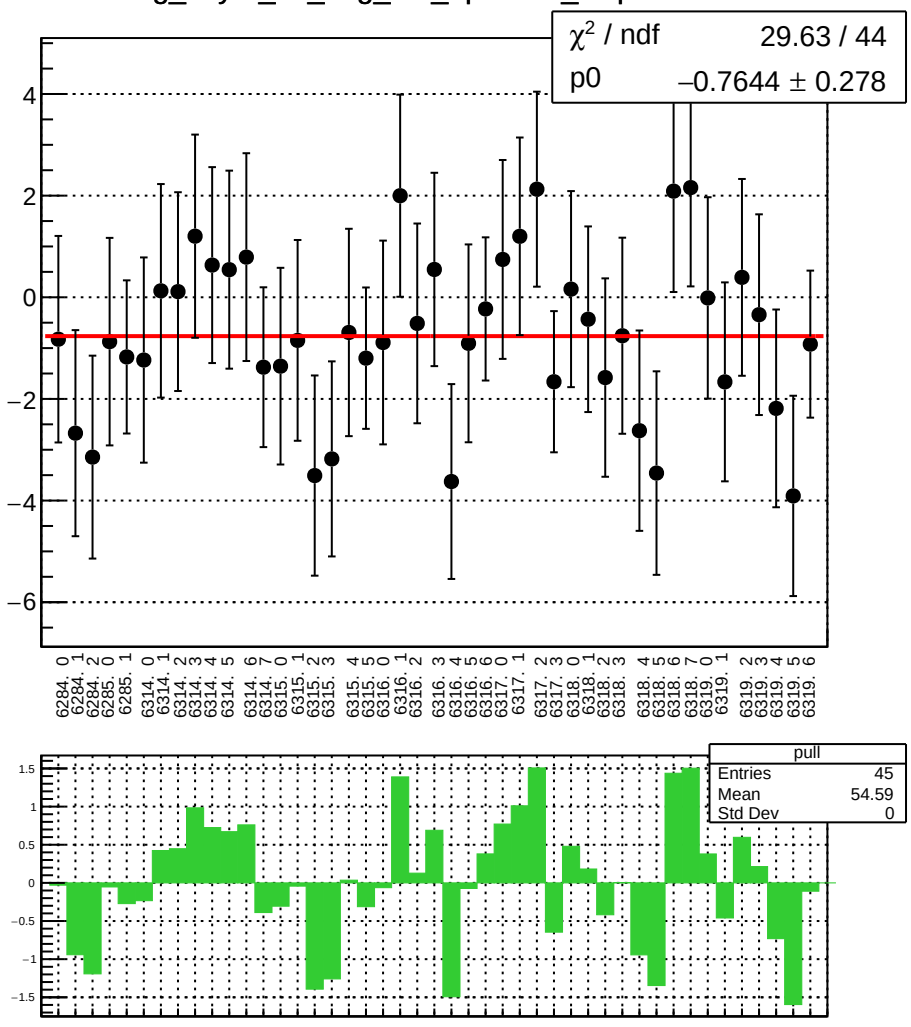

pull1D
Entries 45
Mean 0.003125
Std Dev 0.596

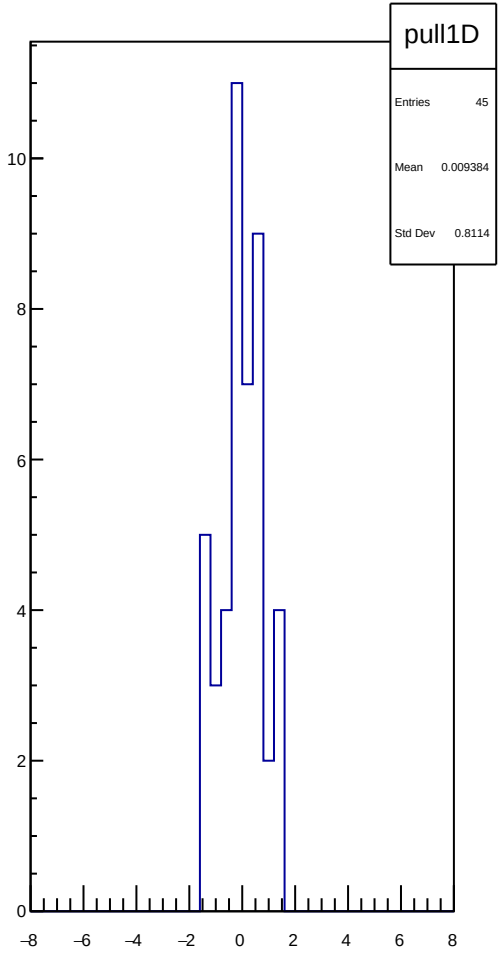

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 30.84 / 44
p0 0.7026 ± 0.2711
pull
Entries 45
Mean 43.84
Std Dev 0

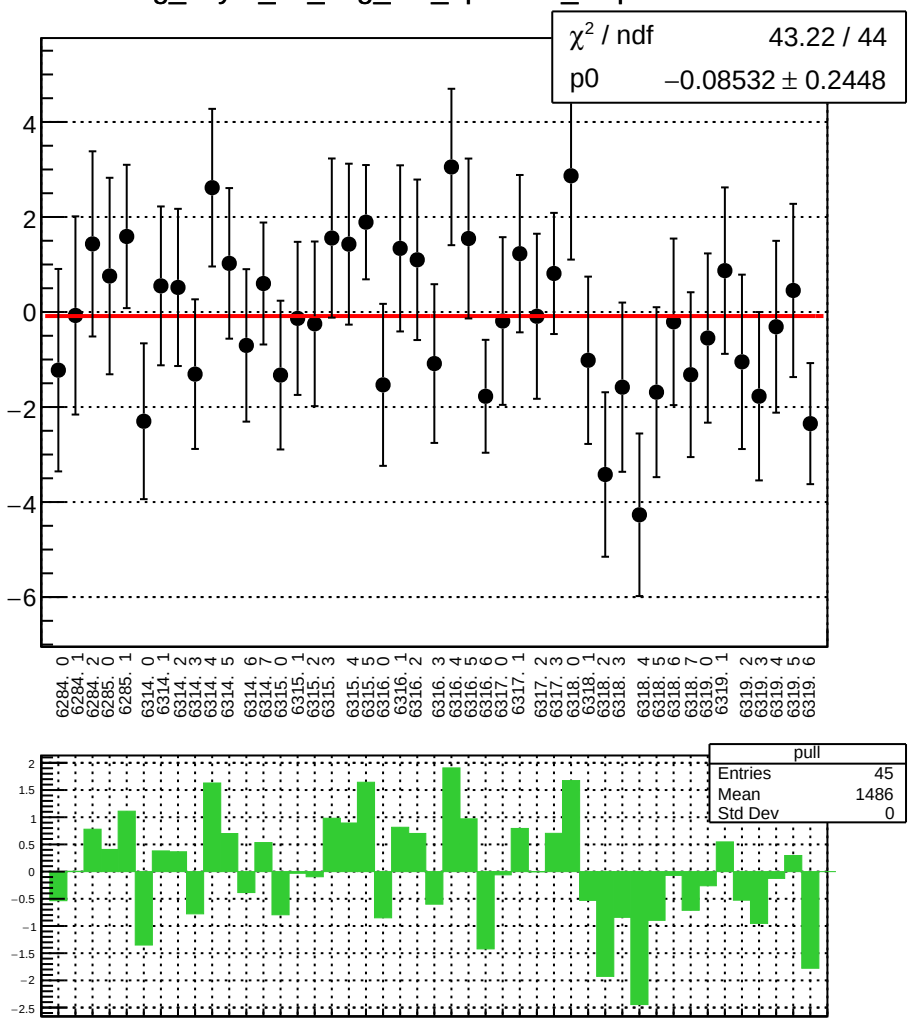

pull1D
Entries 45
Mean −0.009258
Std Dev 0.8278

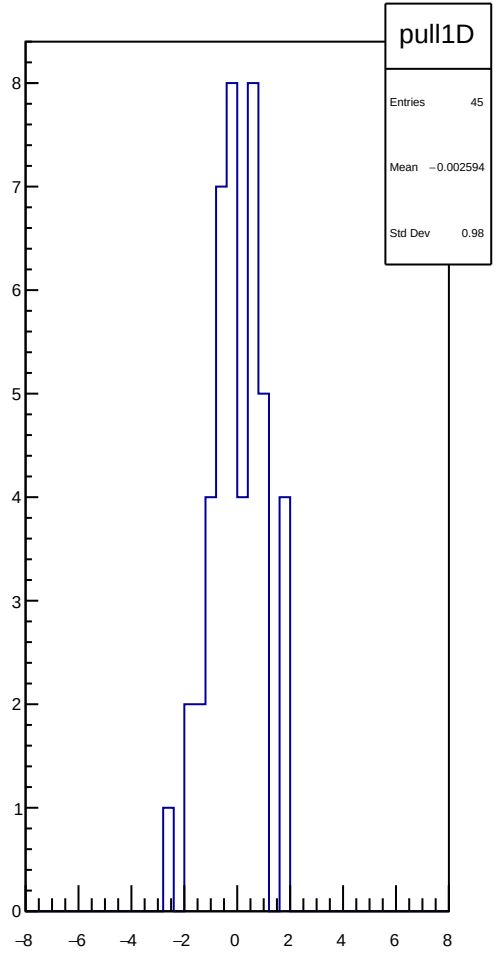

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.13 / 44
p0 0.01744 ± 0.1991
pull
Entries 45
Mean 518.5
Std Dev 0

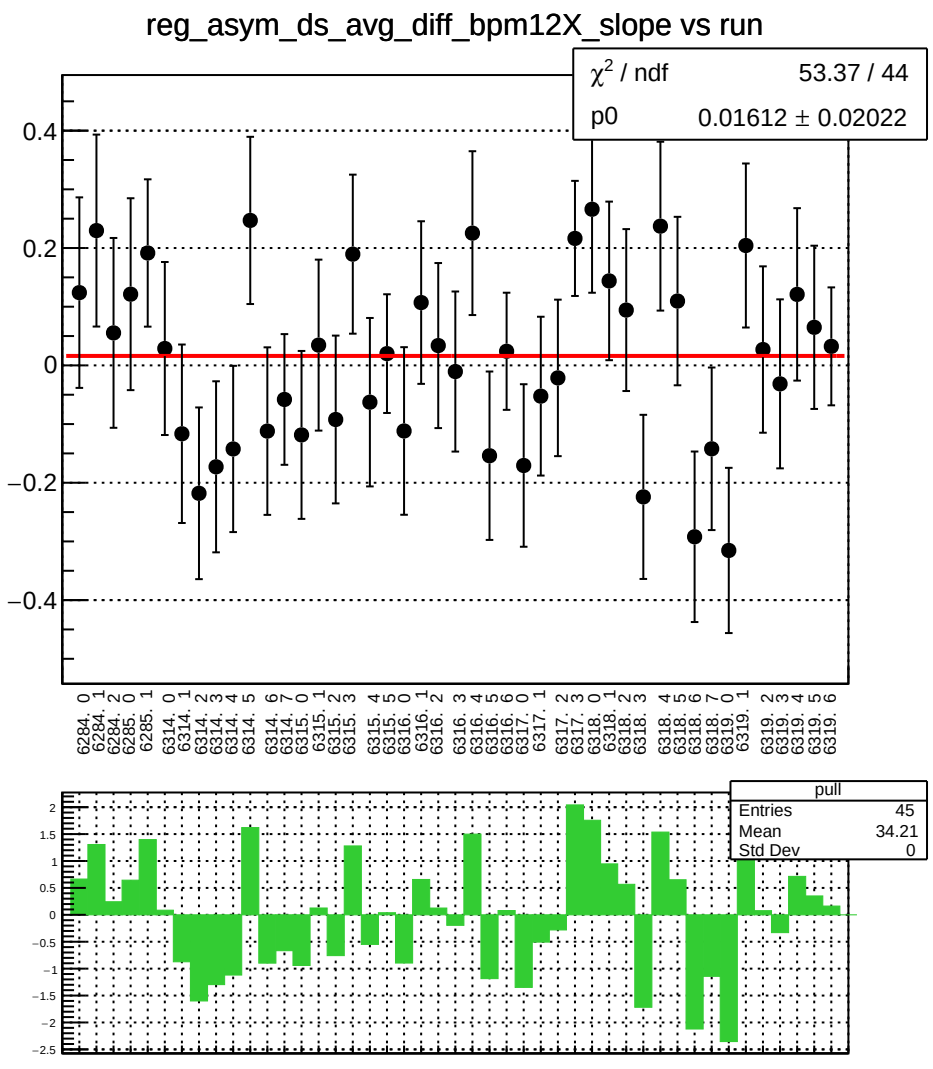

pull1D
Entries 45
Mean 0.008093
Std Dev 1.023

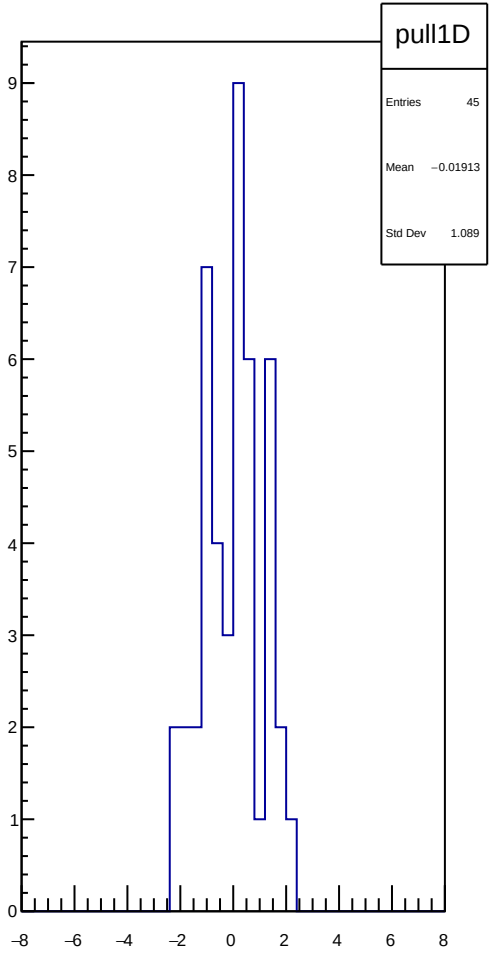

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.63 / 44
p0 −0.7644 ± 0.278
pull
Entries 45
Mean 54.59
Std Dev 0

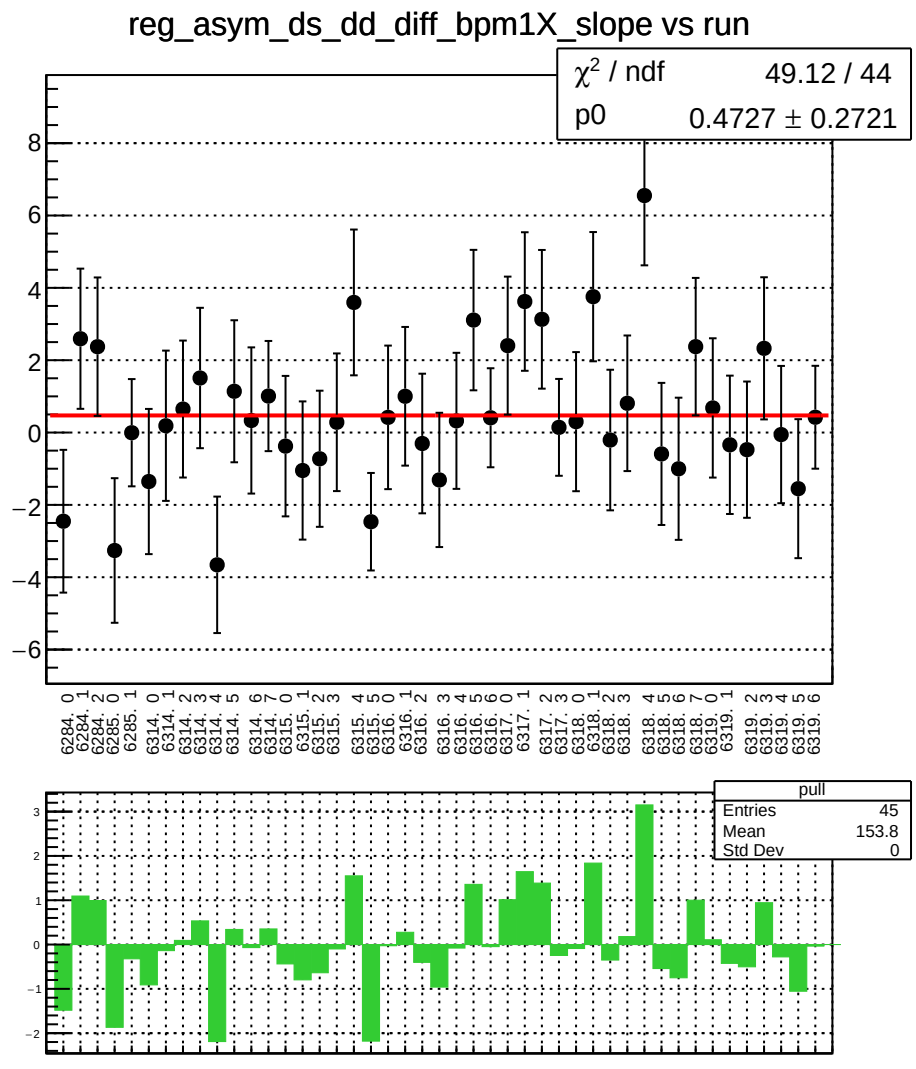

pull1D
Entries 45
Mean 0.009384
Std Dev 0.8114

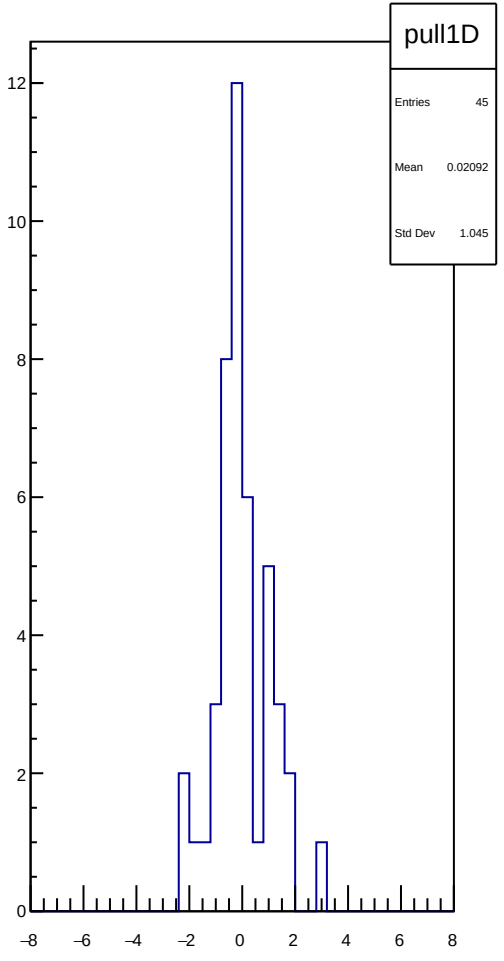

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.22 / 44
p0 −0.08532 ± 0.2448
pull
Entries 45
Mean 1486
Std Dev 0

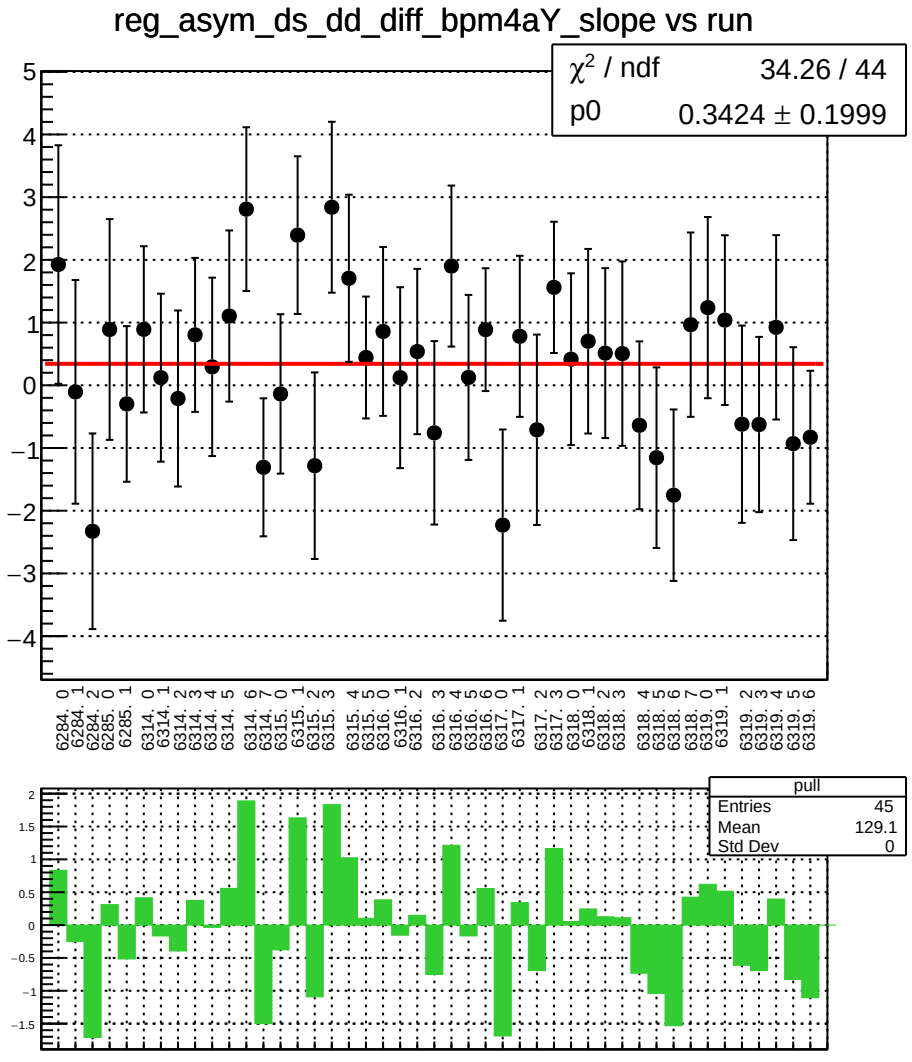

pull1D
Entries 45
Mean −0.002594
Std Dev 0.98

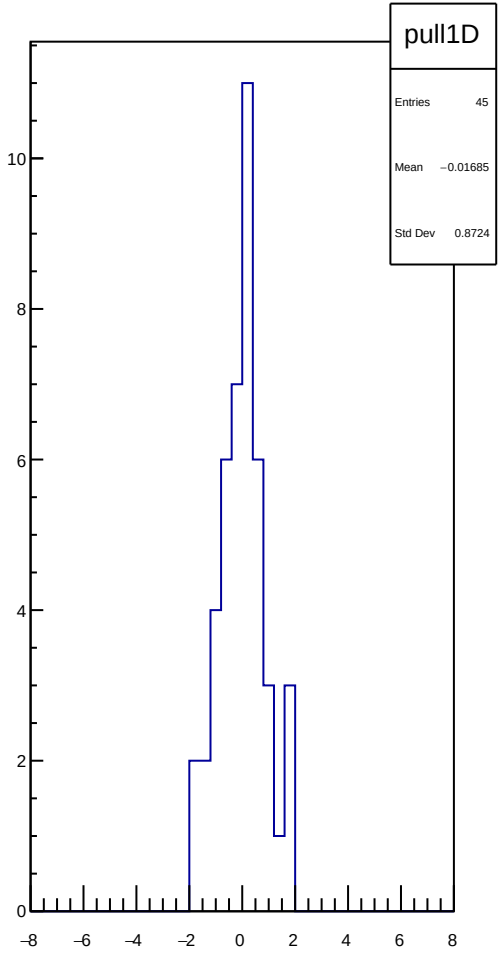

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 53.37 / 44
p0 0.01612 ± 0.02022
pull
Entries 45
Mean 34.21
Std Dev 0

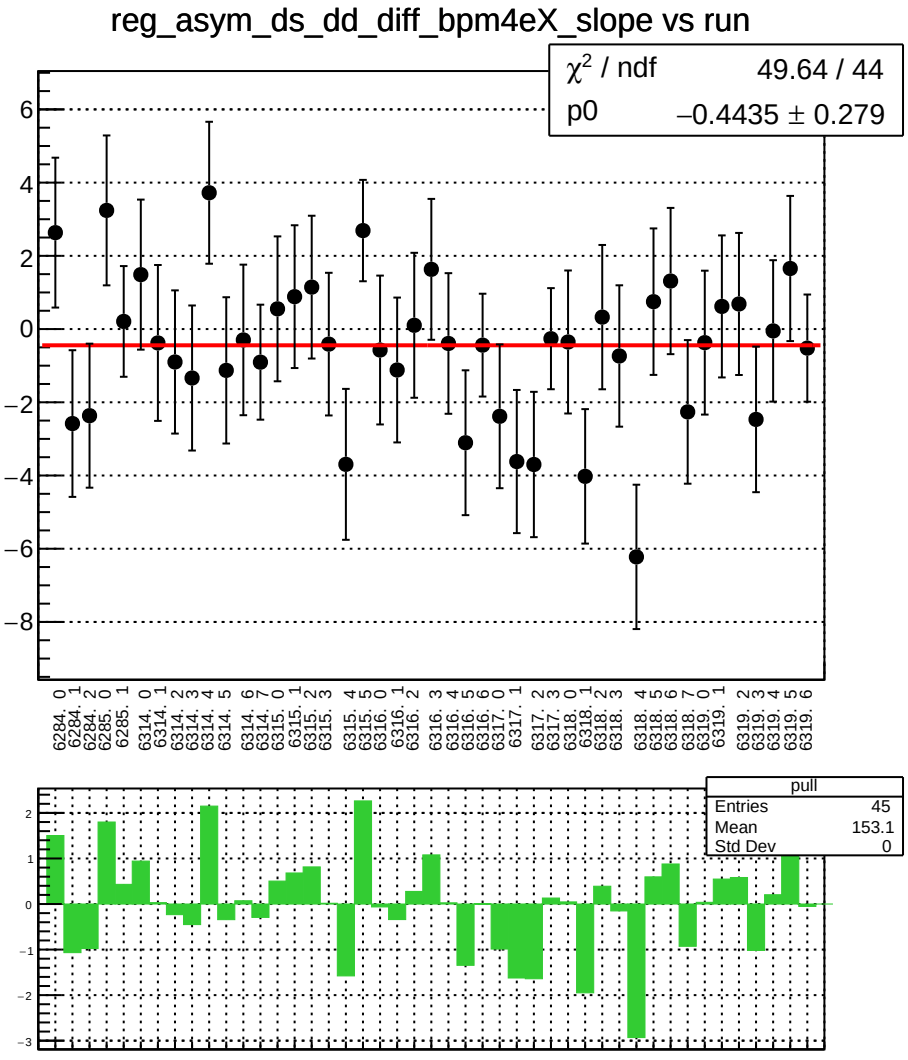

pull1D
Entries 45
Mean −0.01913
Std Dev 1.089

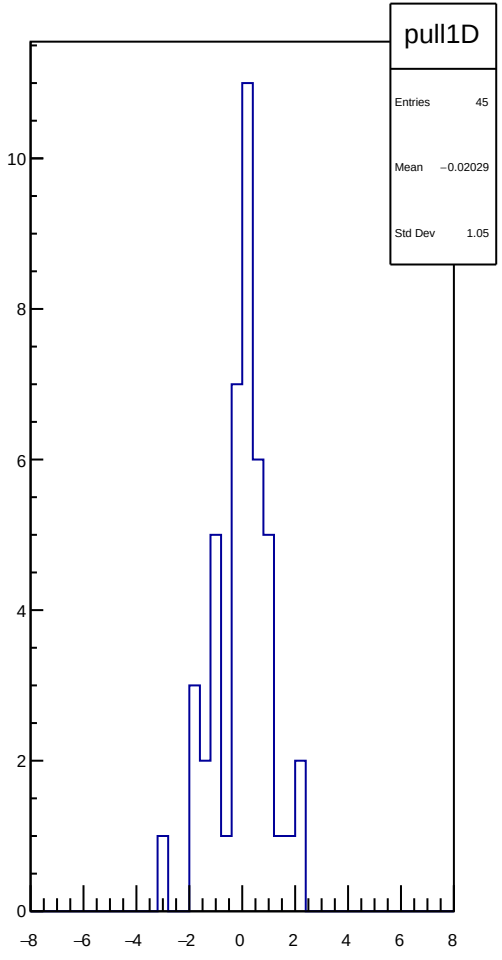

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 49.12 / 44
p0 0.4727 ± 0.2721
pull
Entries 45
Mean 153.8
Std Dev 0

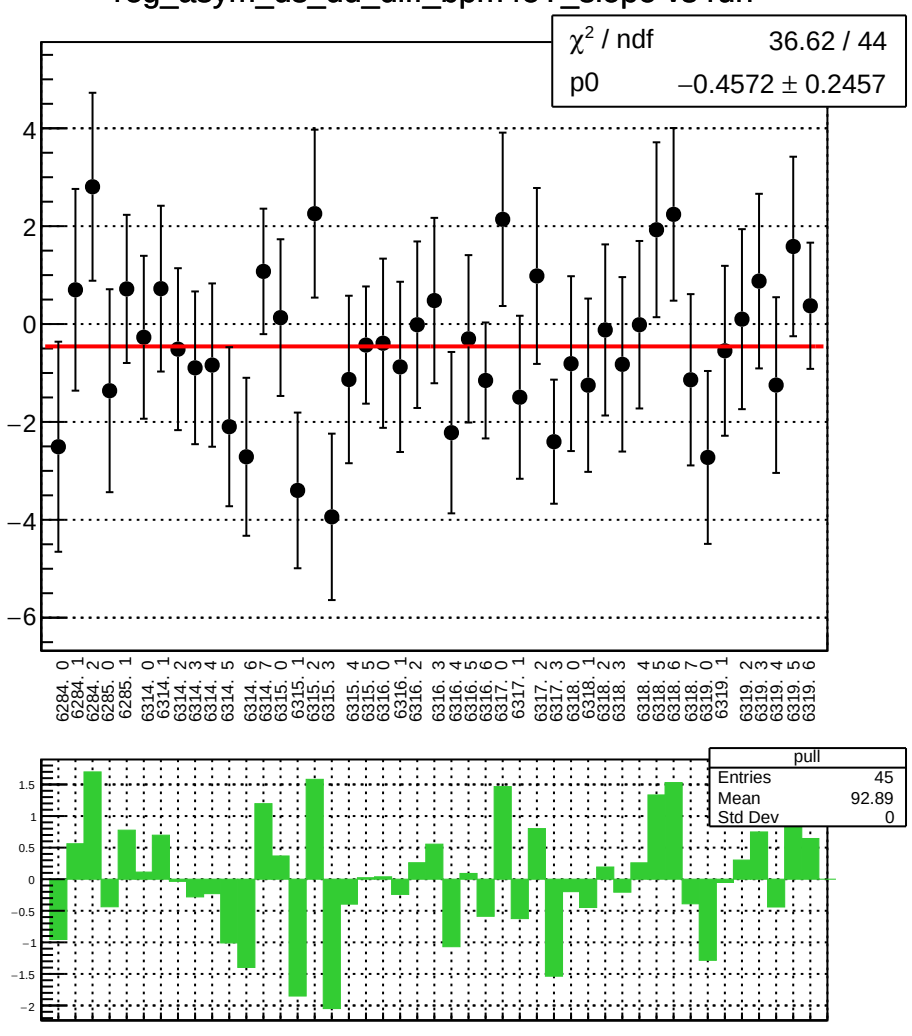

pull1D
Entries 45
Mean 0.02092
Std Dev 1.045

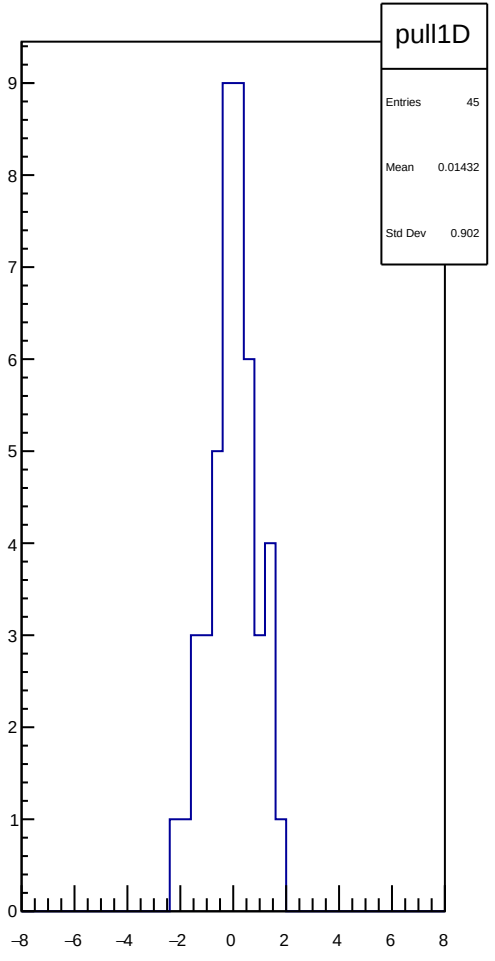

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.26 / 44
p0 0.3424 ± 0.1999
pull
Entries 45
Mean 129.1
Std Dev 0

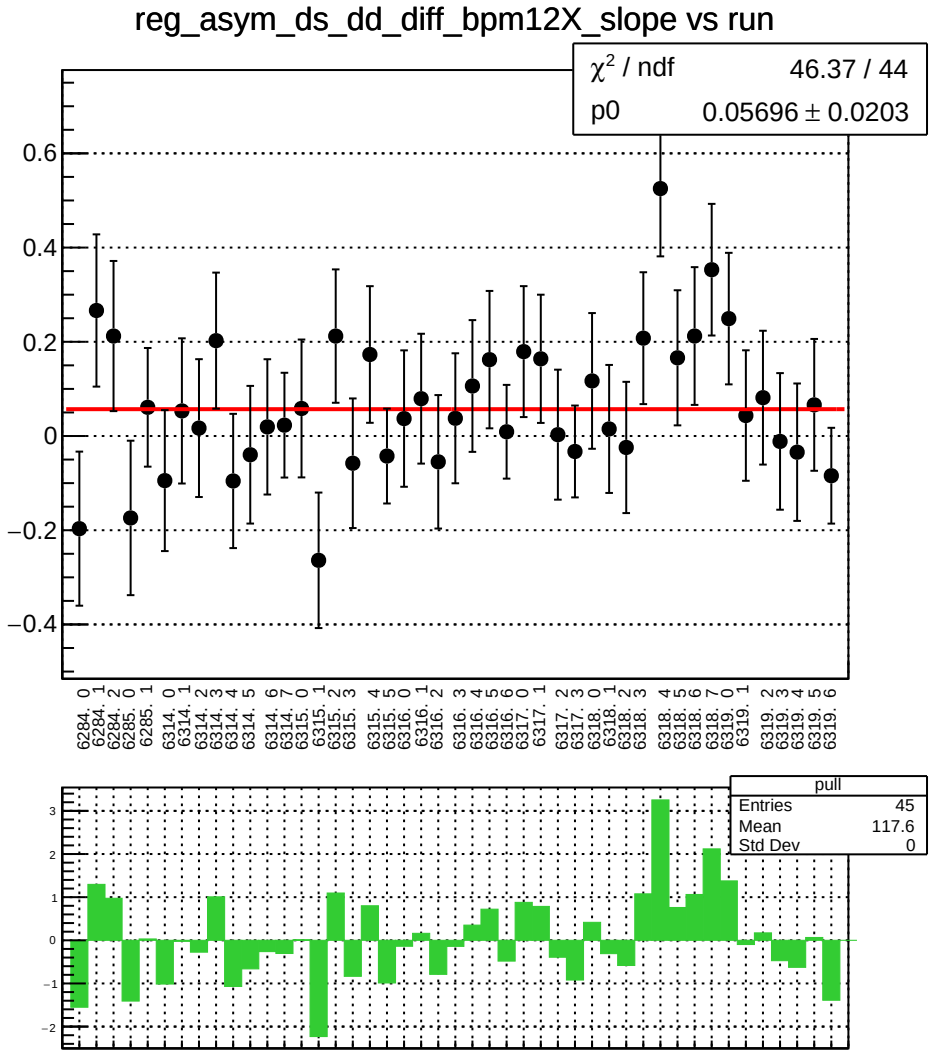

pull1D
Entries 45
Mean −0.01685
Std Dev 0.8724

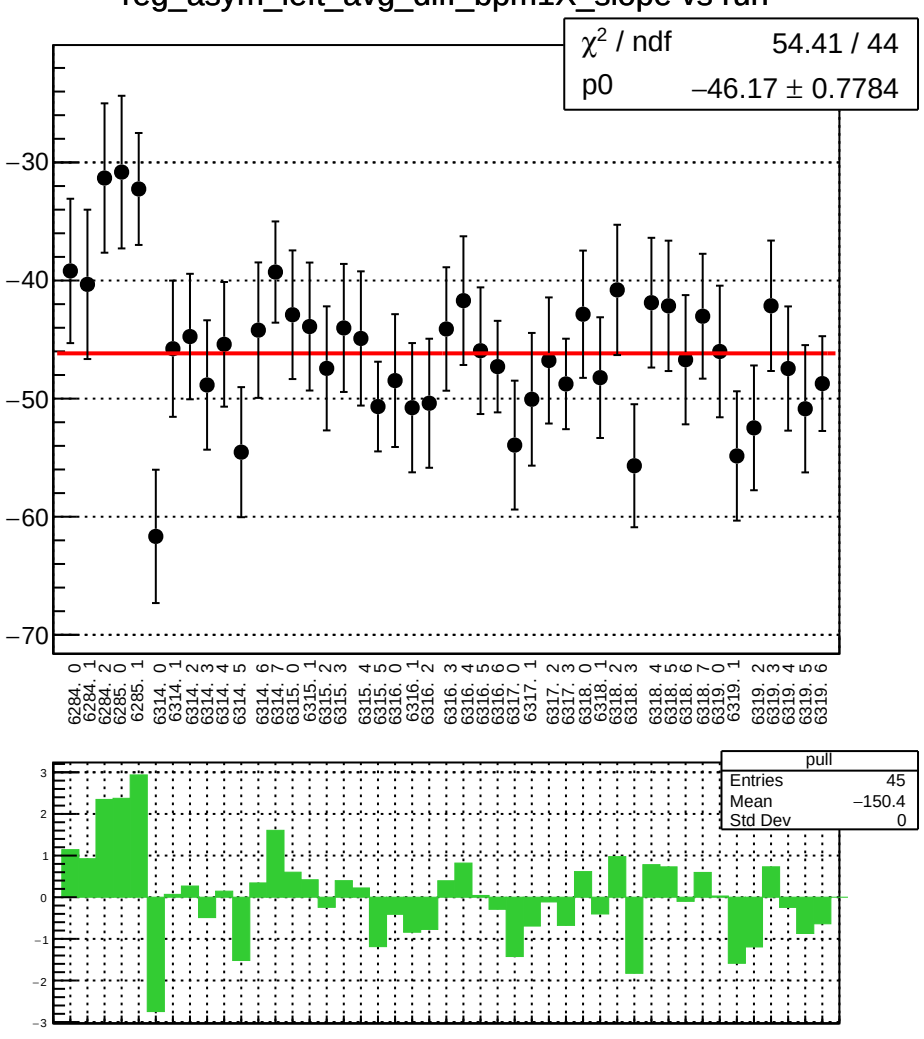

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.64 / 44
p0 −0.4435 ± 0.279
pull
Entries 45
Mean 153.1
Std Dev 0


pull1D
Entries 45
Mean −0.02029
Std Dev 1.05


reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.62 / 44
p0 −0.4572 ± 0.2457
pull
Entries 45
Mean 92.89
Std Dev 0


pull1D
Entries 45
Mean 0.01432
Std Dev 0.902


reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 46.37 / 44
p0 0.05696 ± 0.0203
pull
Entries 45
Mean 117.6
Std Dev 0
pull1D
Entries 45
Mean 0.03245
Std Dev 1.015


reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 54.41 / 44
p0 −46.17 ± 0.7784
−30
−40
−50
−60
−70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
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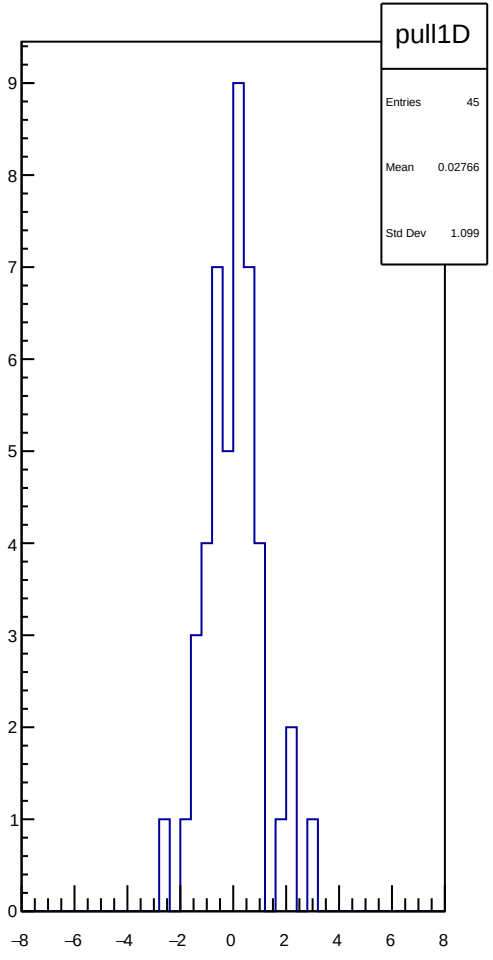
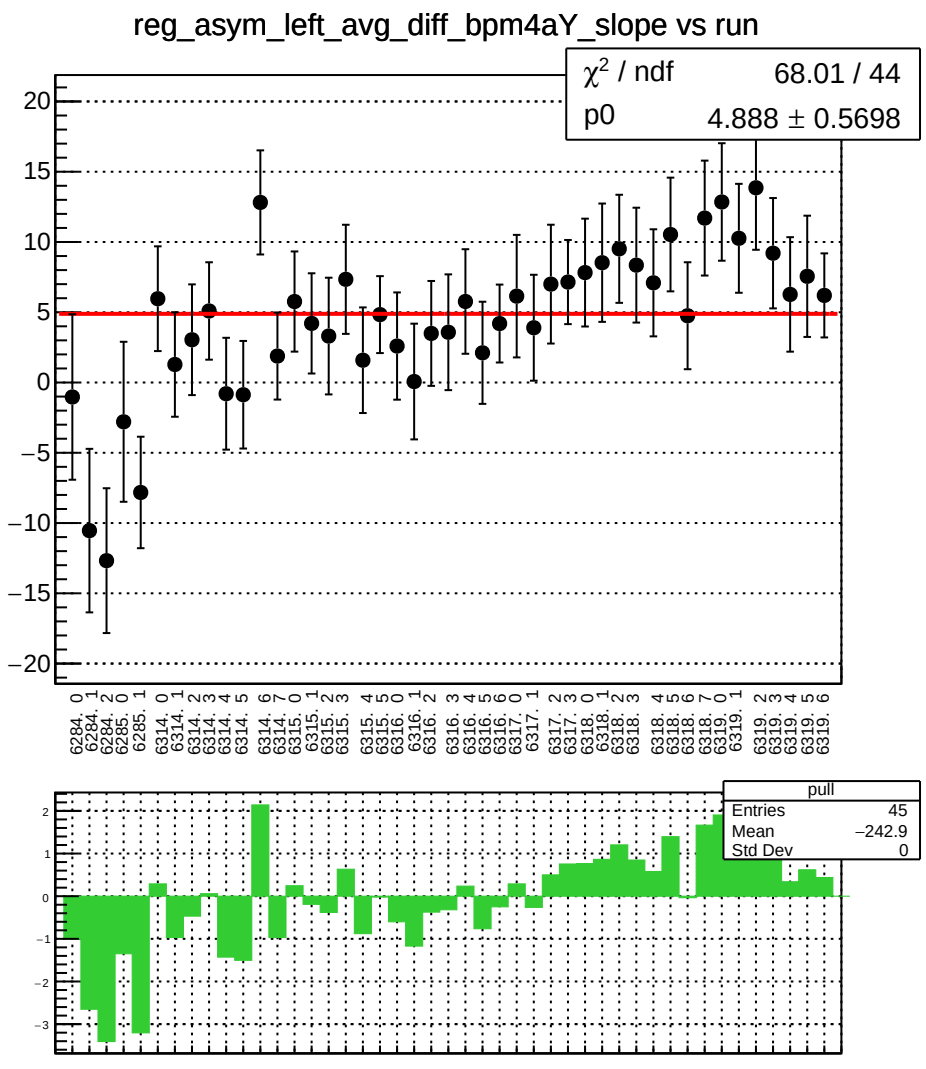
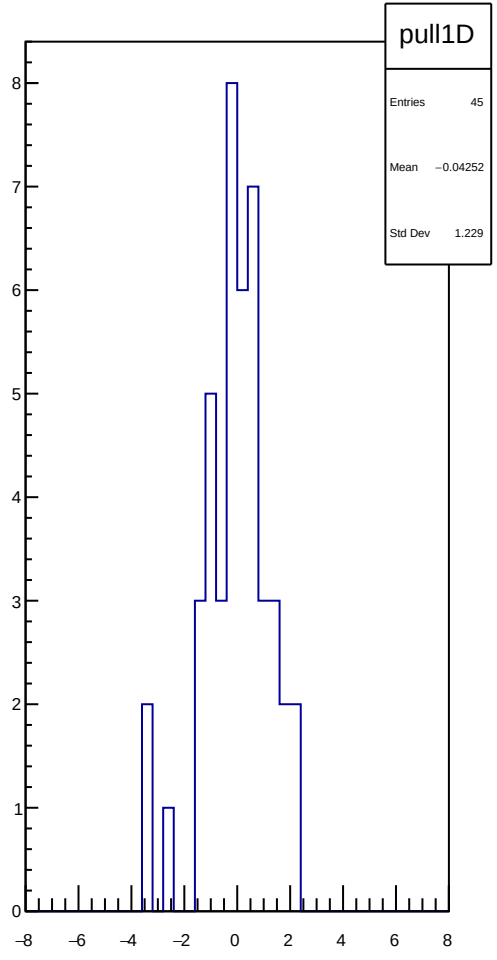
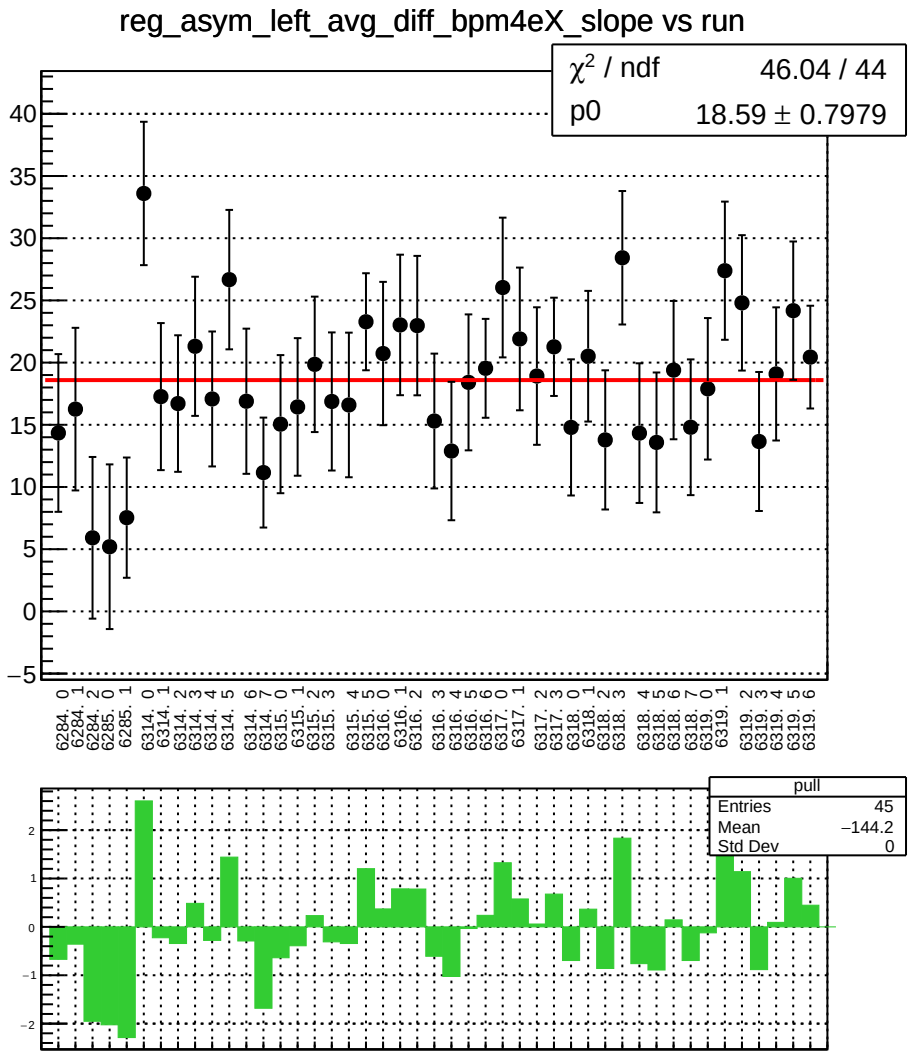
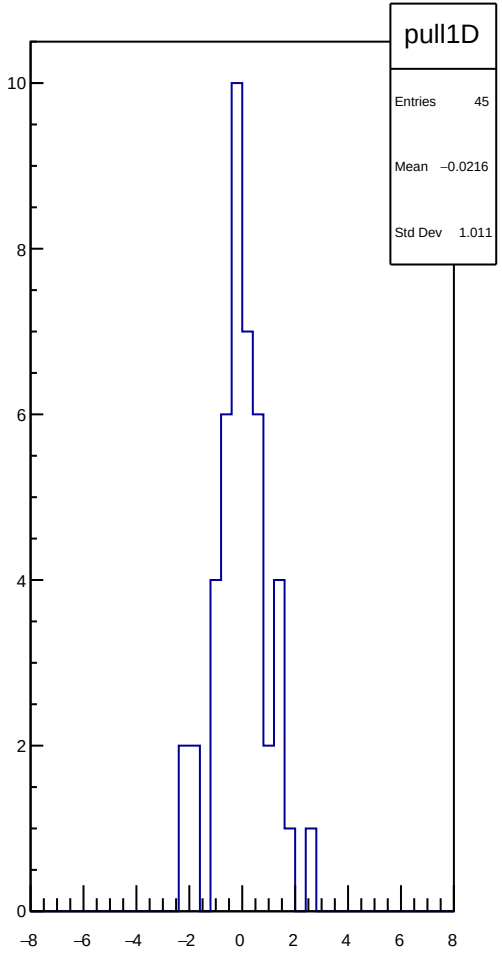
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −150.4
Std Dev 0
3
2
1
0
−1
−2
−3

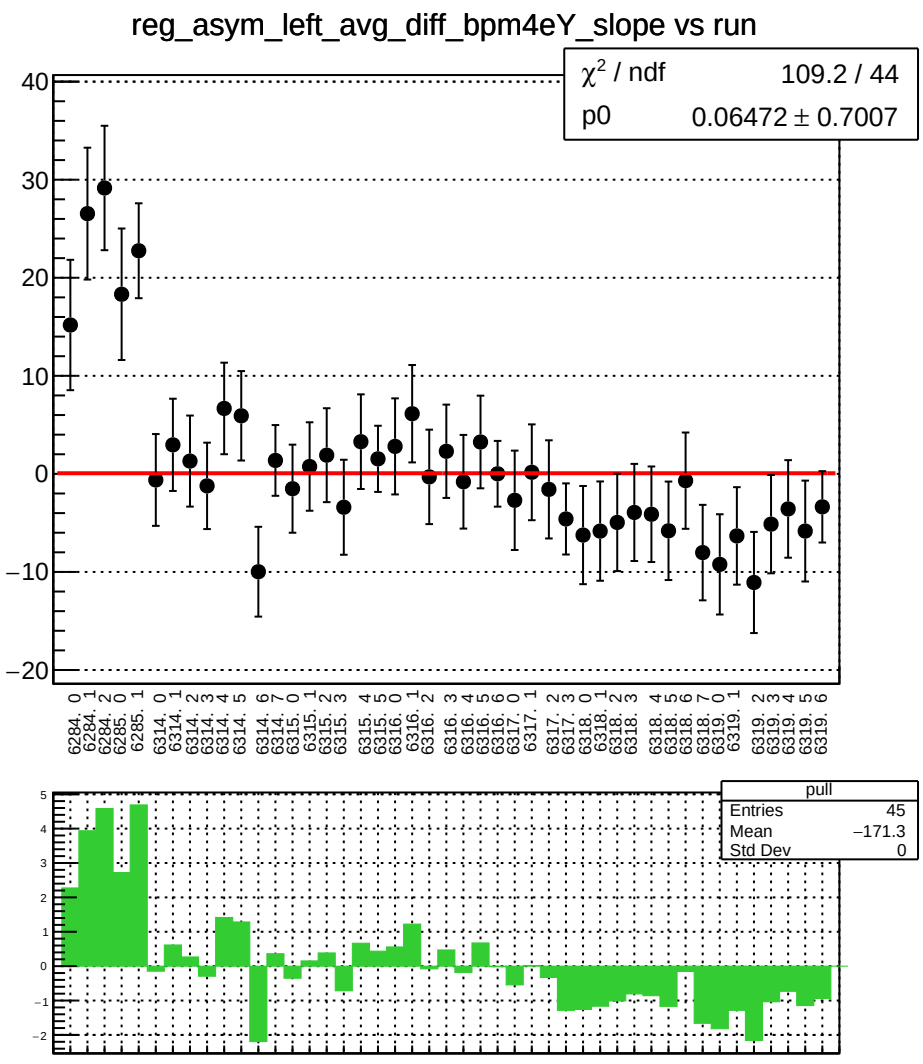

pull1D
Entries 45
Mean 0.02766
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

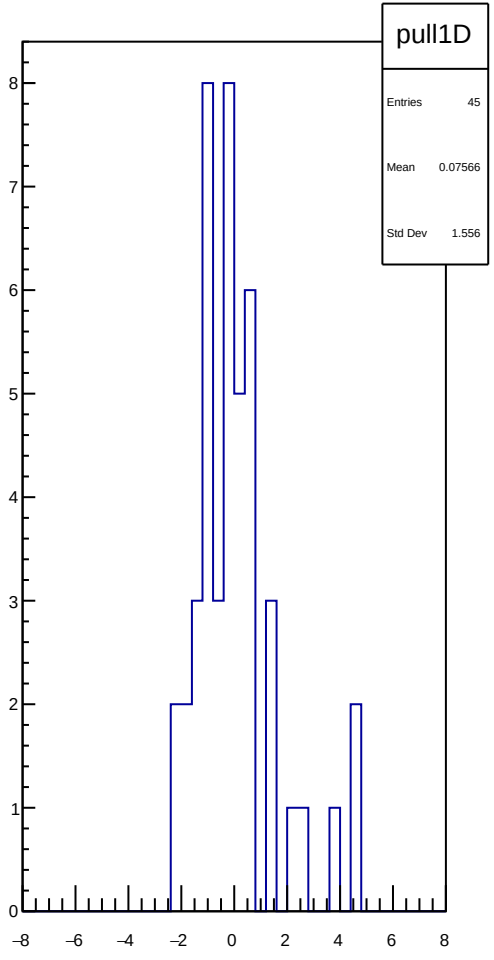

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.01 / 44
p0 4.888 ± 0.5698
pull
Entries 45
Mean −242.9
Std Dev 0

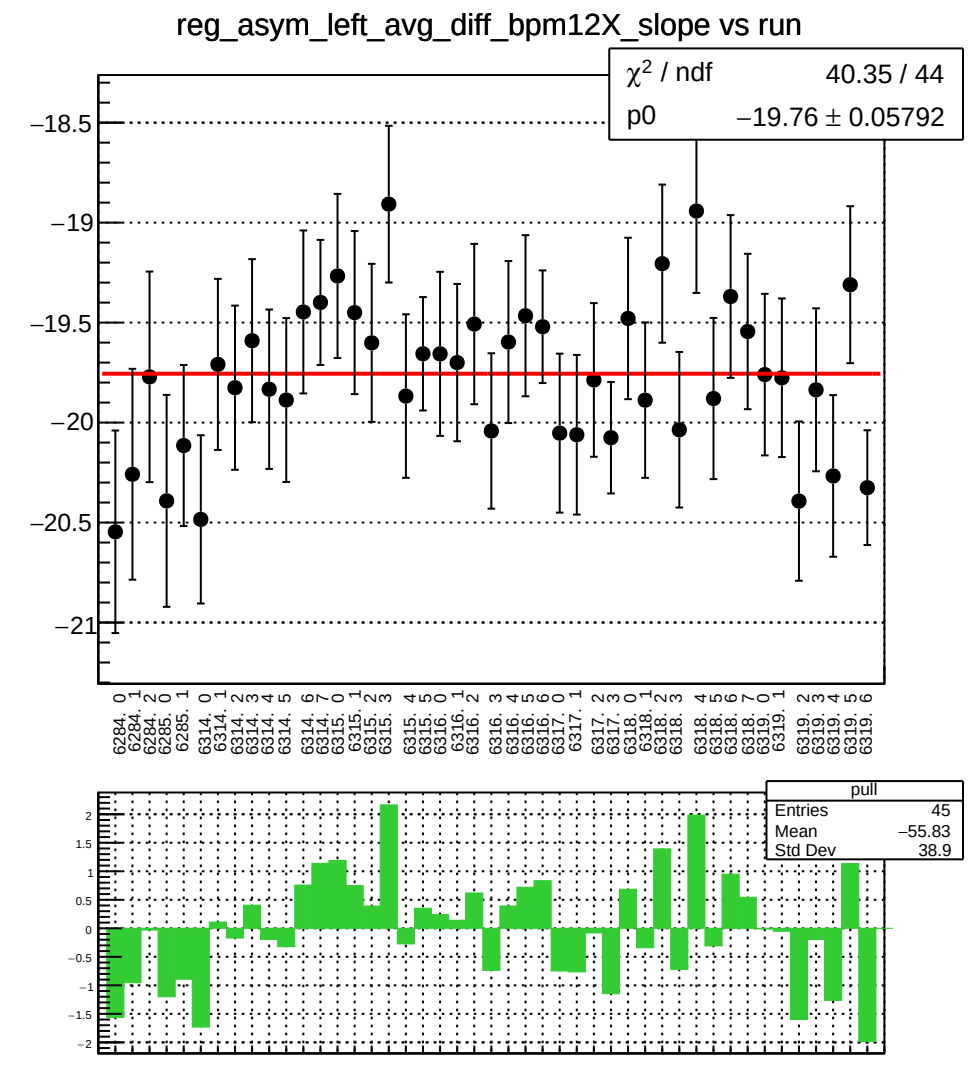

pull1D
Entries 45
Mean −0.04252
Std Dev 1.229

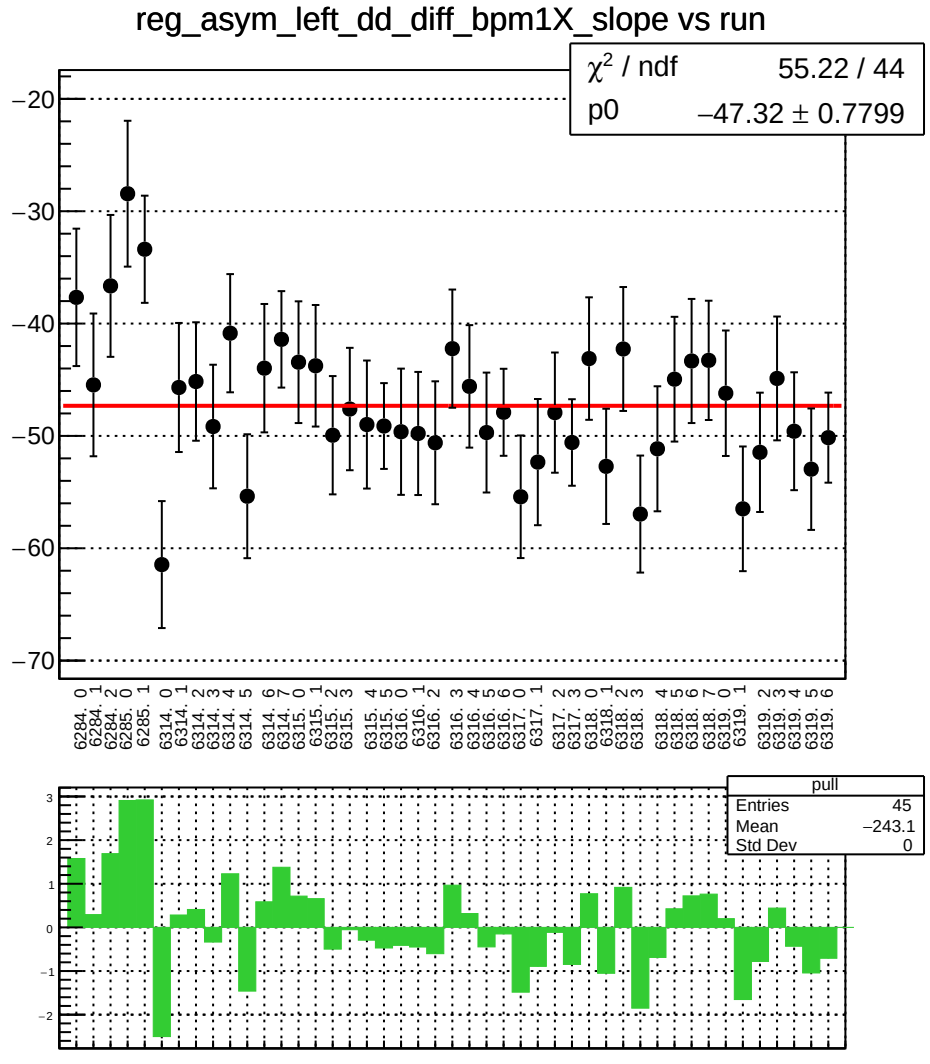

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.04 / 44
p0 18.59 ± 0.7979
pull
Entries 45
Mean −144.2
Std Dev 0

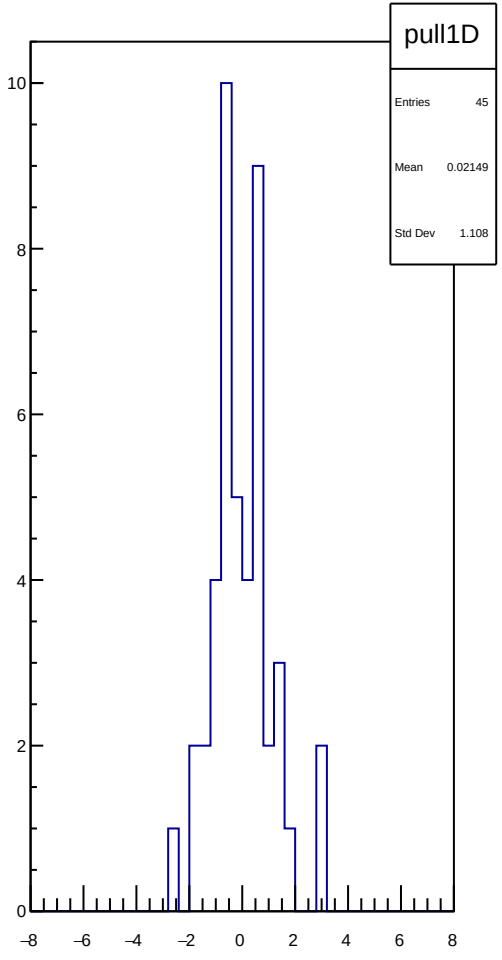

pull1D
Entries 45
Mean −0.0216
Std Dev 1.011

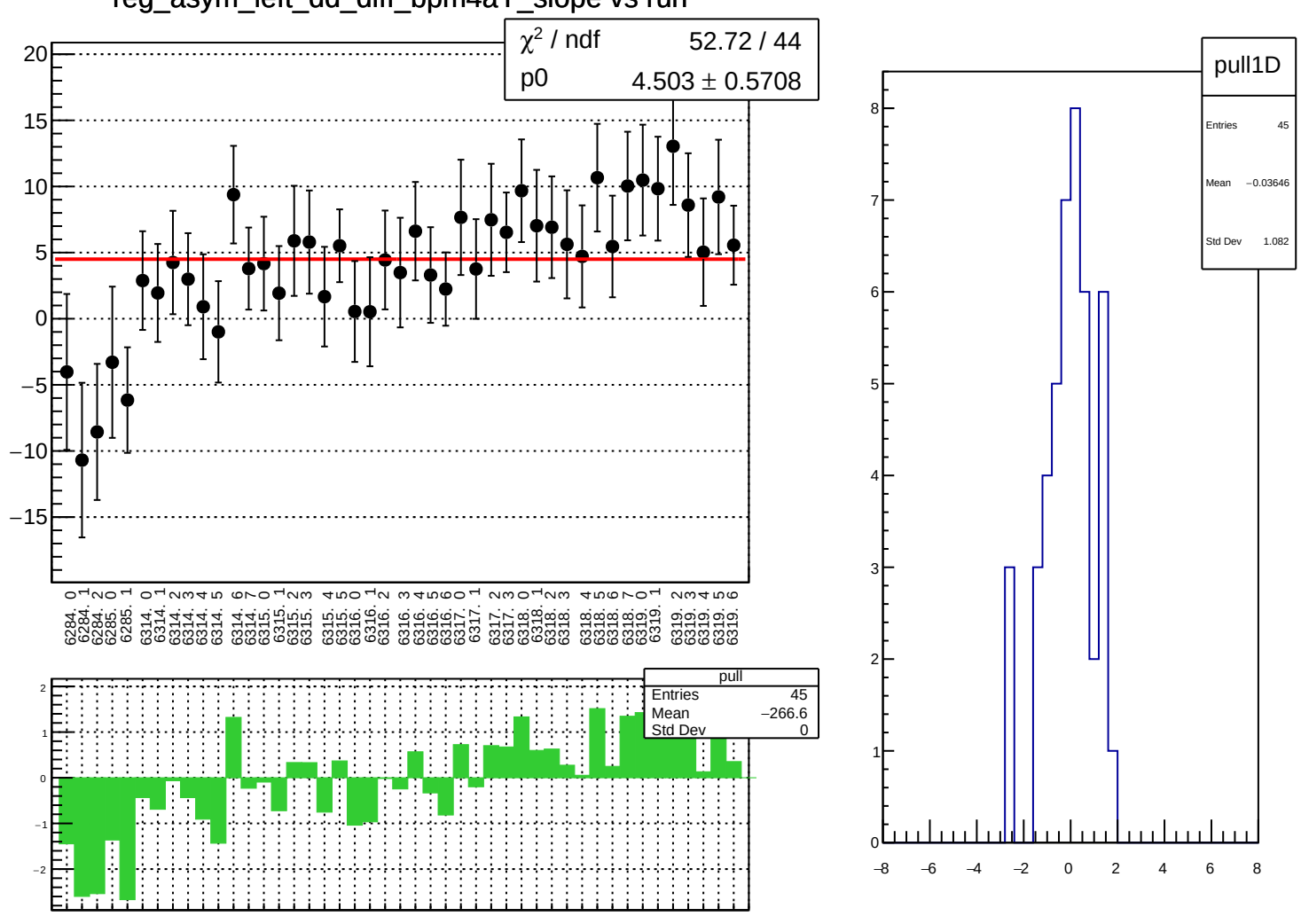

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.2 / 44
p0 0.06472 ± 0.7007
pull
Entries 45
Mean −171.3
Std Dev 0

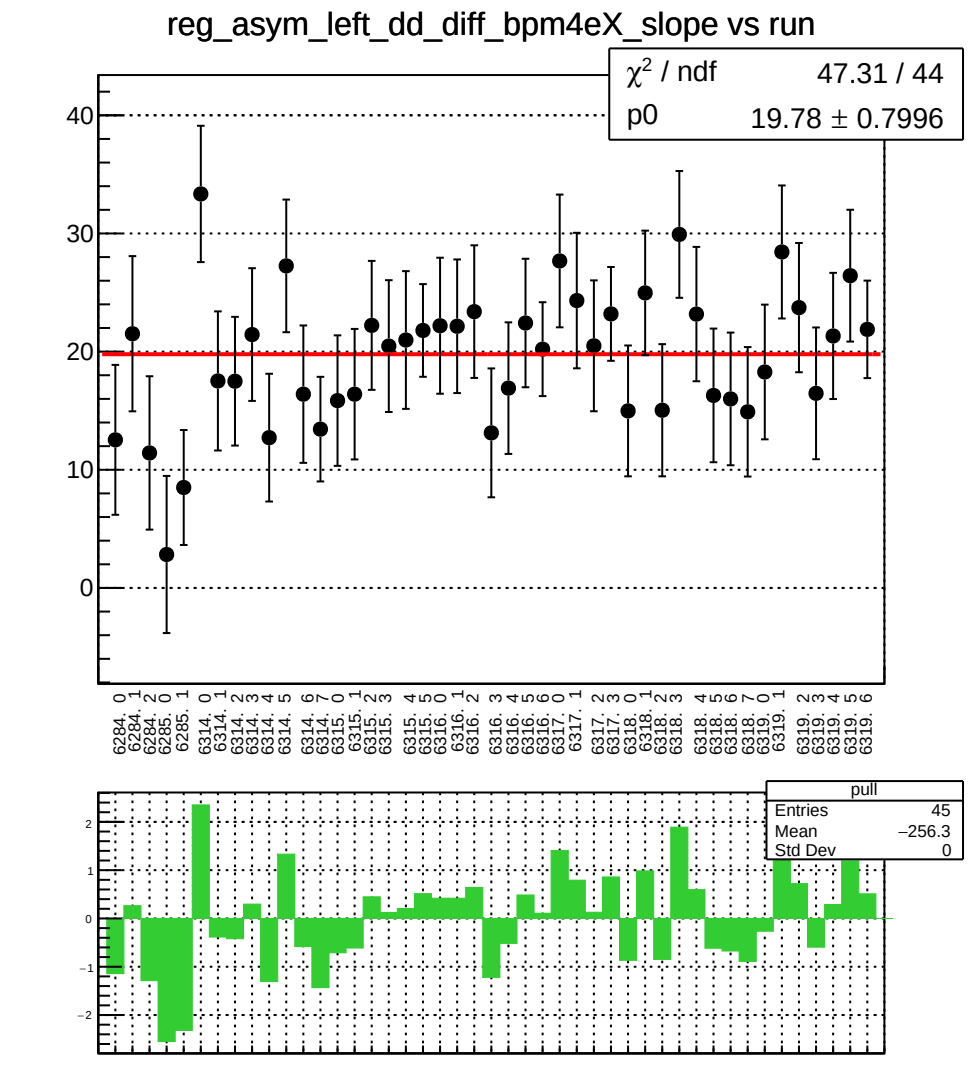

pull1D
Entries 45
Mean 0.07566
Std Dev 1.556

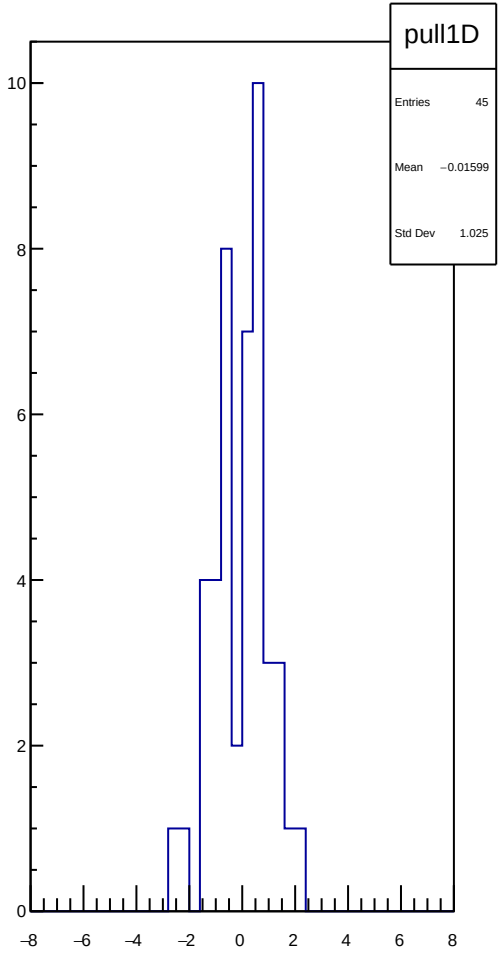

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 40.35 / 44
p0 −19.76 ± 0.05792
−18.5
−19
−19.5
−20
−20.5
−21
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −55.83
Std Dev 38.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.00876
Std Dev 0.9469
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

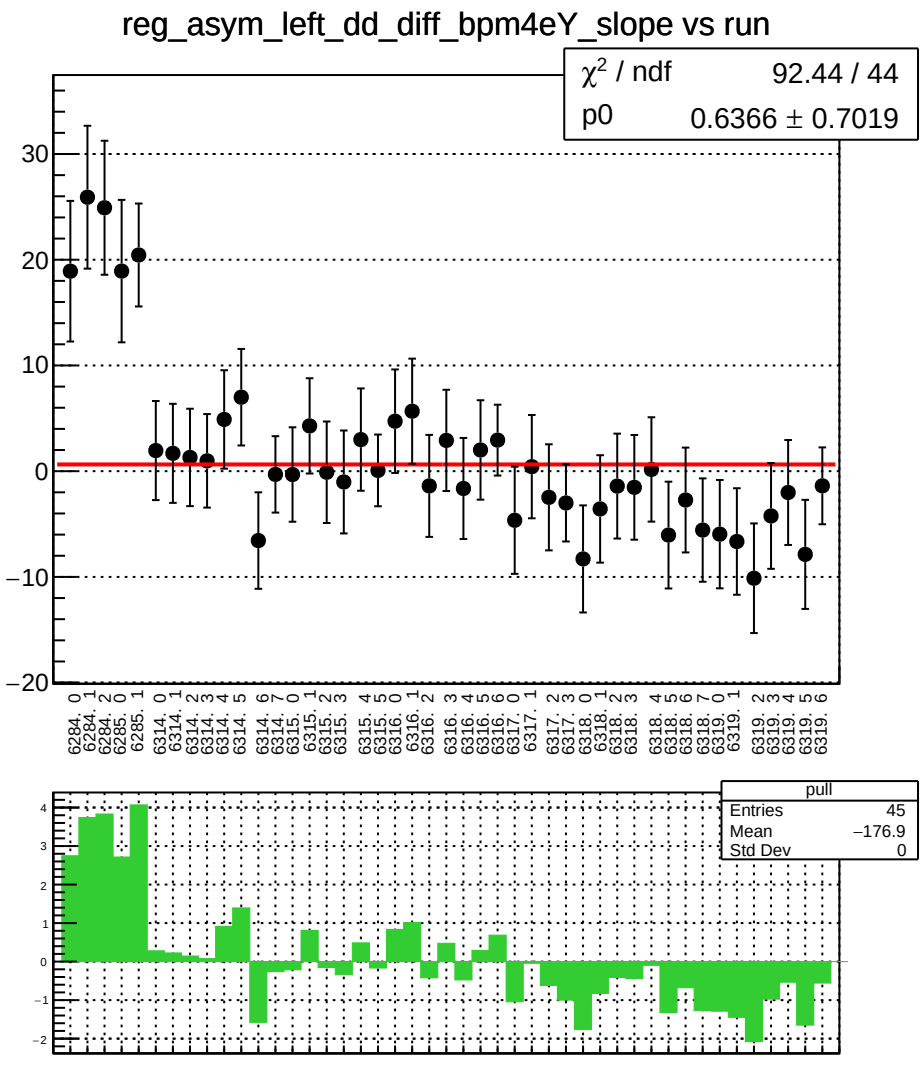

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 55.22 / 44
p0 −47.32 ± 0.7799
pull
Entries 45
Mean −243.1
Std Dev 0

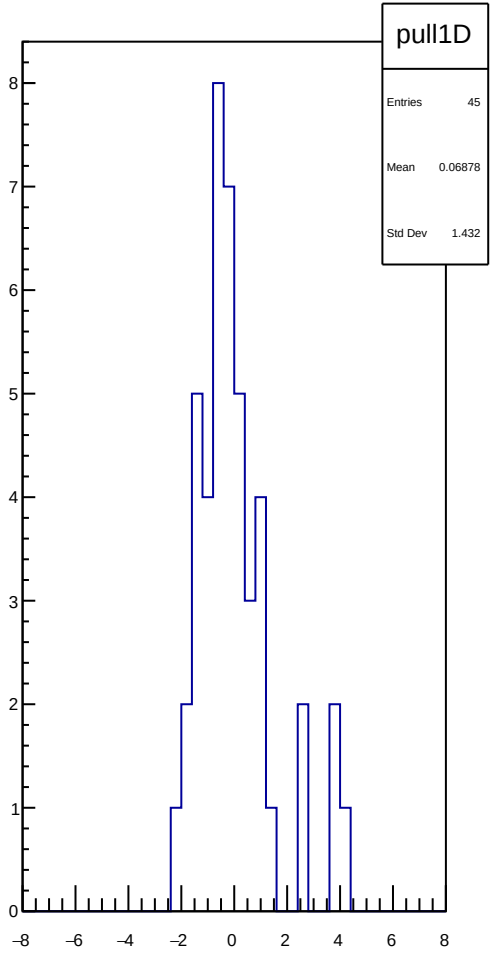

pull1D
Entries 45
Mean 0.02149
Std Dev 1.108

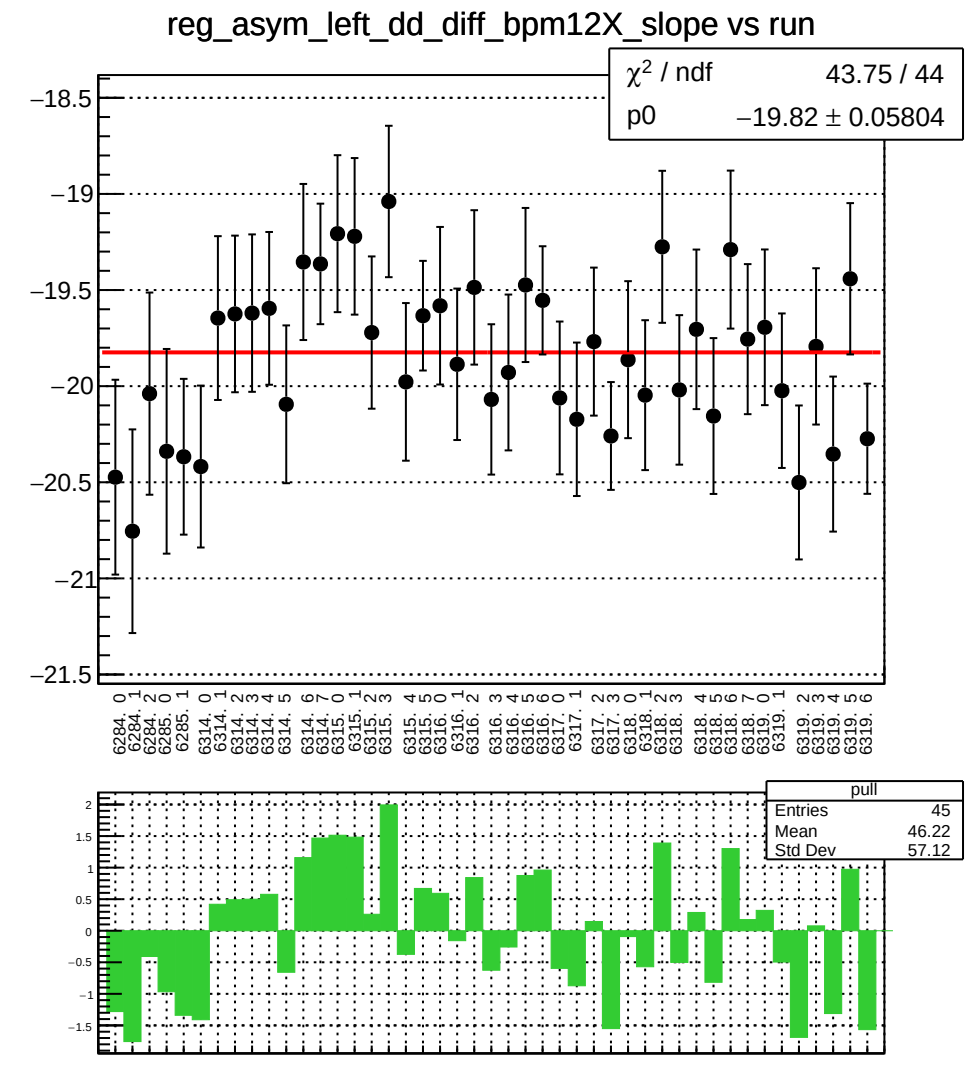

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.72 / 44
p0 4.503 ± 0.5708
pull
Entries 45
Mean −266.6
Std Dev 0
pull1D
Entries 45
Mean −0.03646
Std Dev 1.082

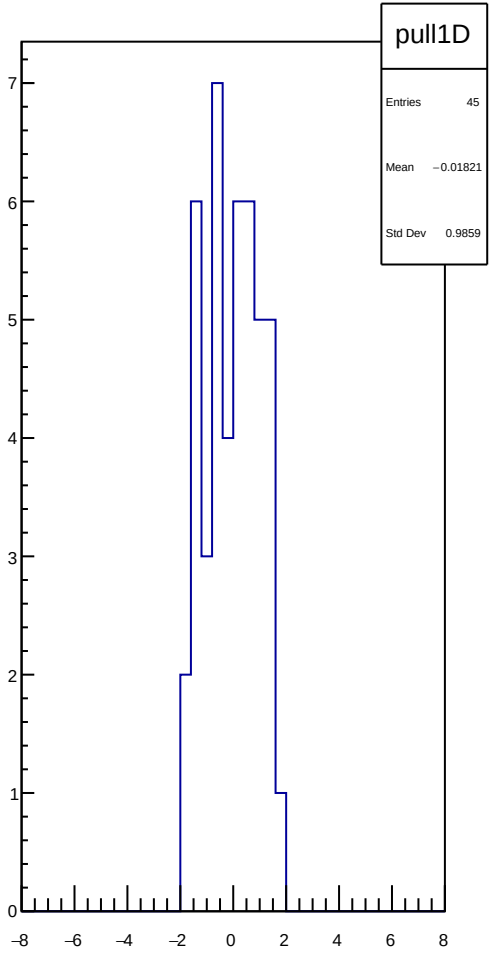

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.31 / 44
p0 19.78 ± 0.7996
40
30
20
10
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −256.3
Std Dev 0
2
1
0
−1
−2

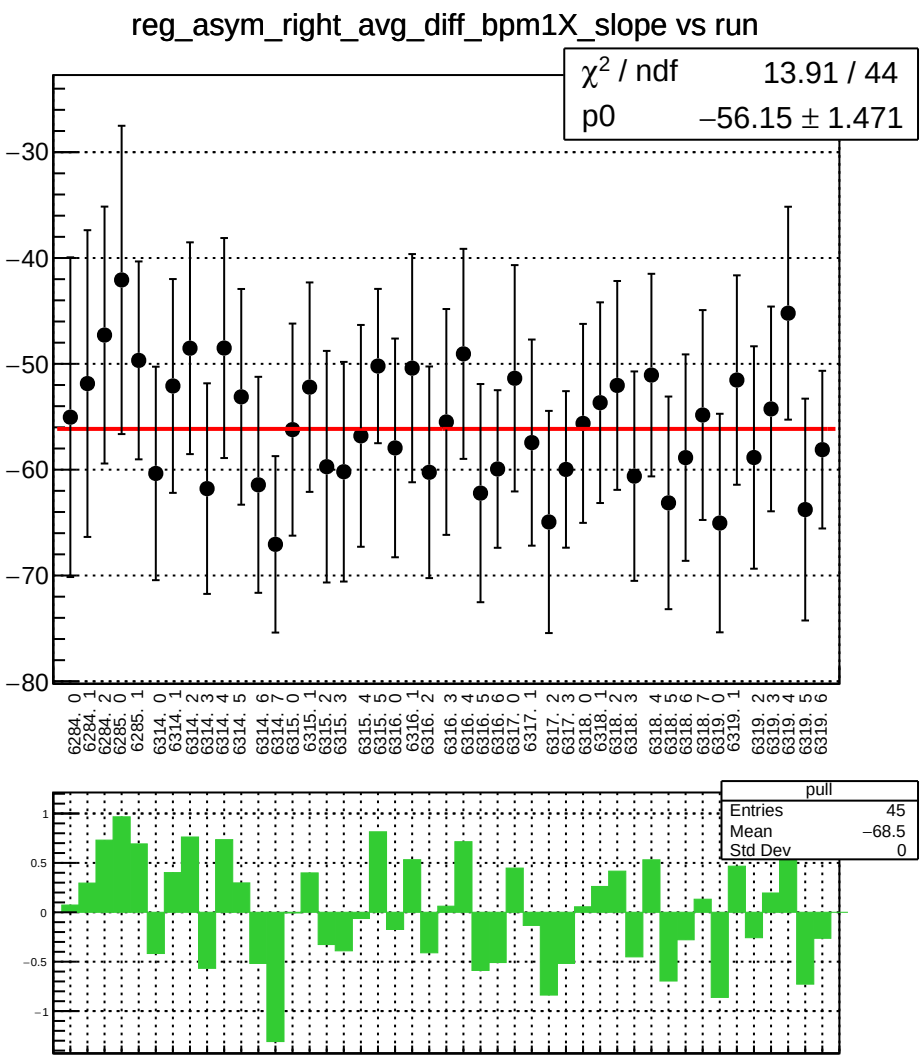

pull1D
Entries 45
Mean −0.01599
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

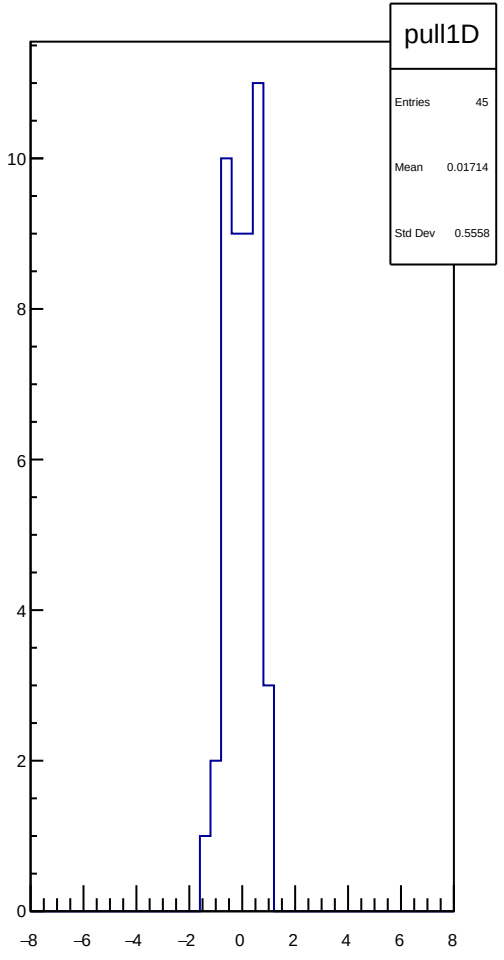

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.44 / 44
p0 0.6366 ± 0.7019
pull
Entries 45
Mean −176.9
Std Dev 0

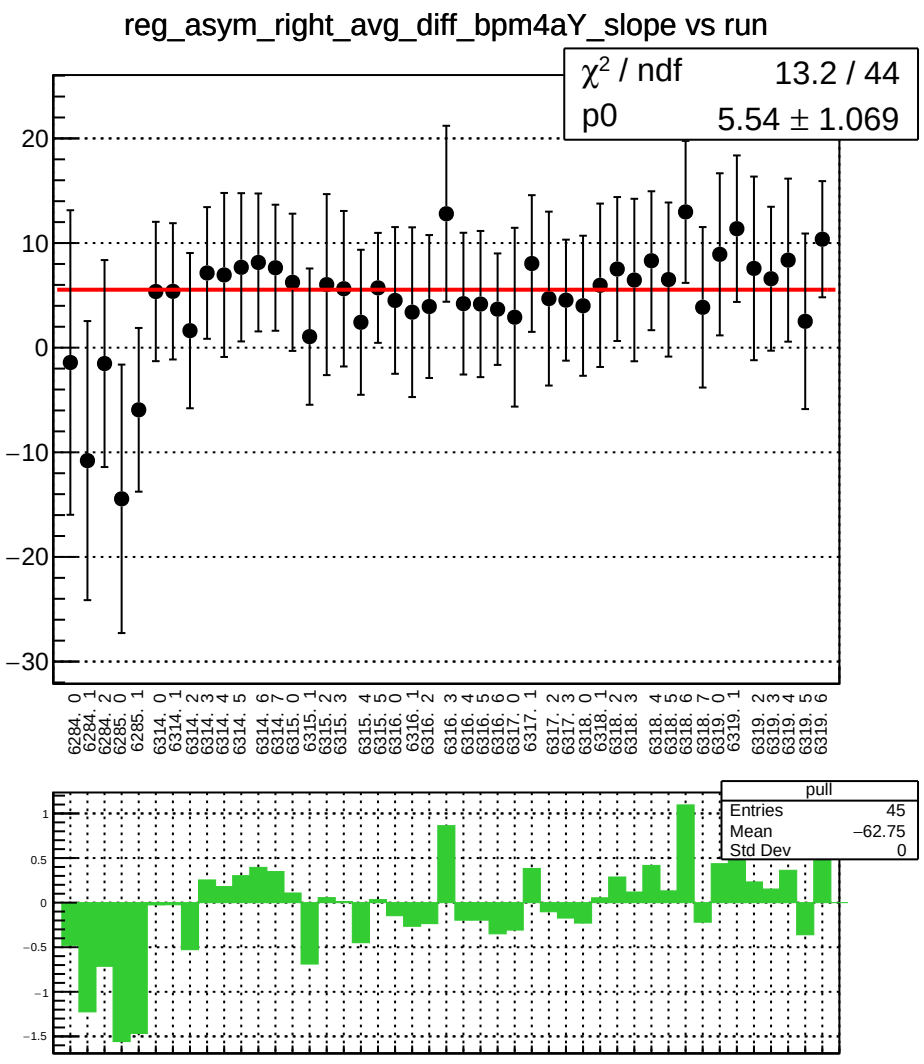

pull1D
Entries 45
Mean 0.06878
Std Dev 1.432

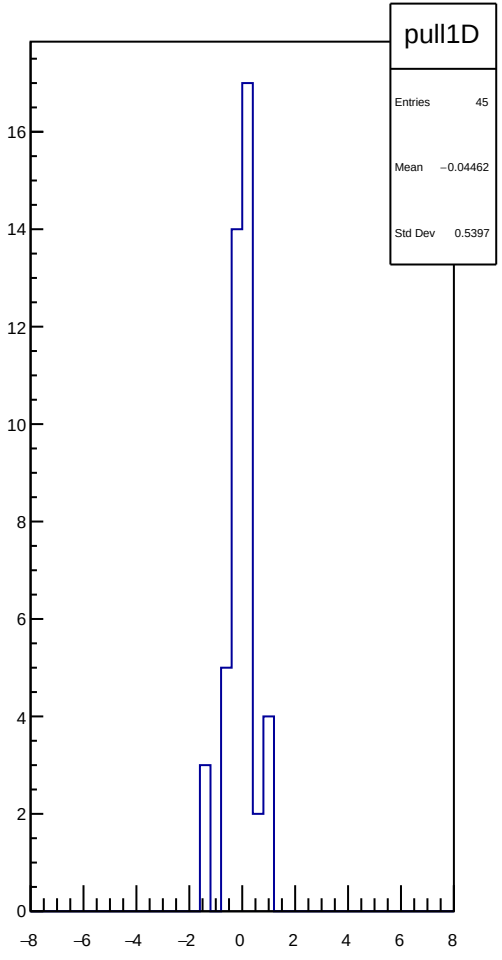

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 43.75 / 44
p0 −19.82 ± 0.05804
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 46.22
Std Dev 57.12
2
1.5
1
0.5
0
−0.5
−1
−1.5

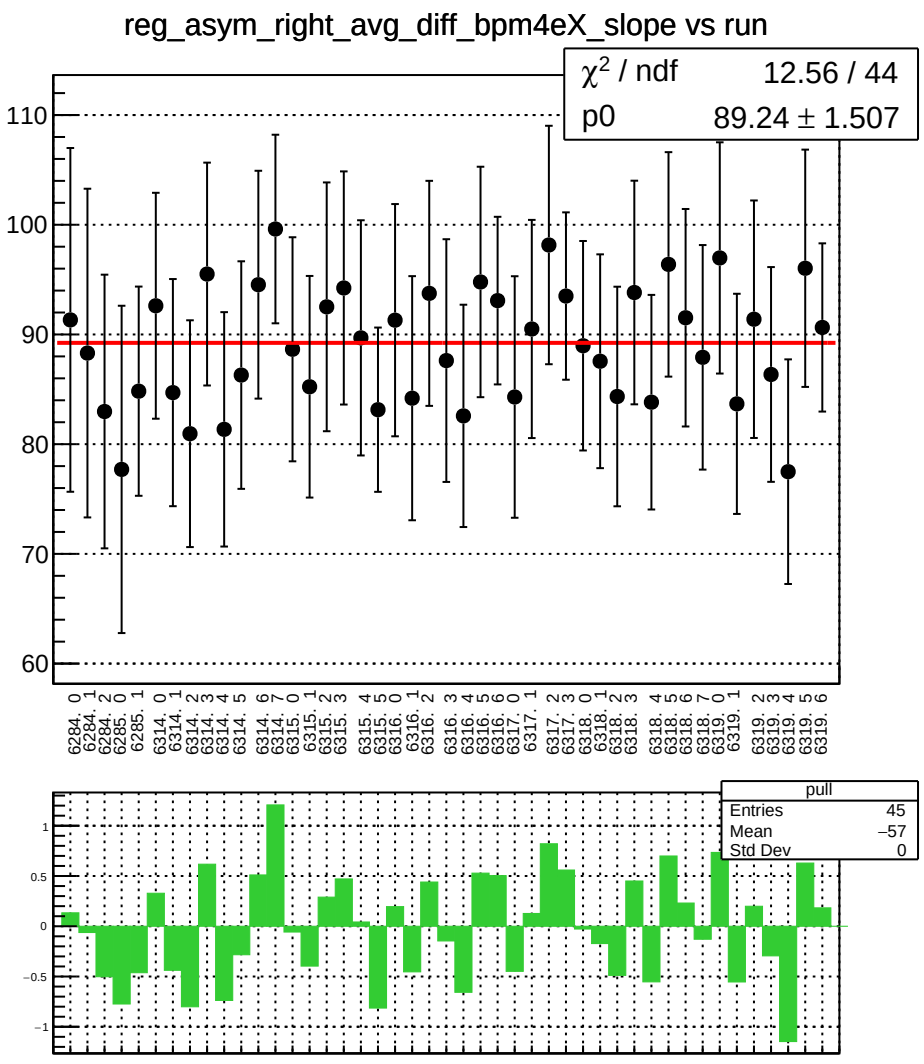

pull1D
Entries 45
Mean −0.01821
Std Dev 0.9859
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

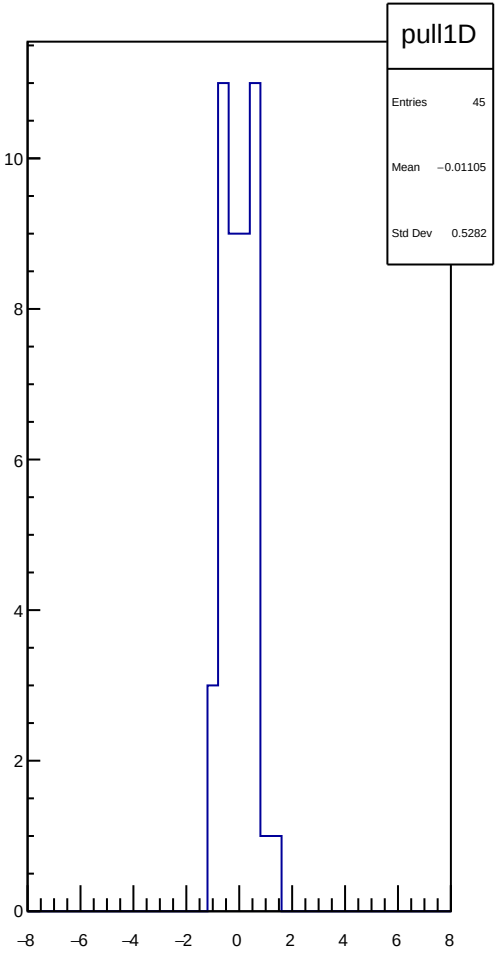

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 13.91 / 44
p0 −56.15 ± 1.471
−30
−40
−50
−60
−70
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −68.5
Std Dev 0
1
0.5
0
−0.5
−1

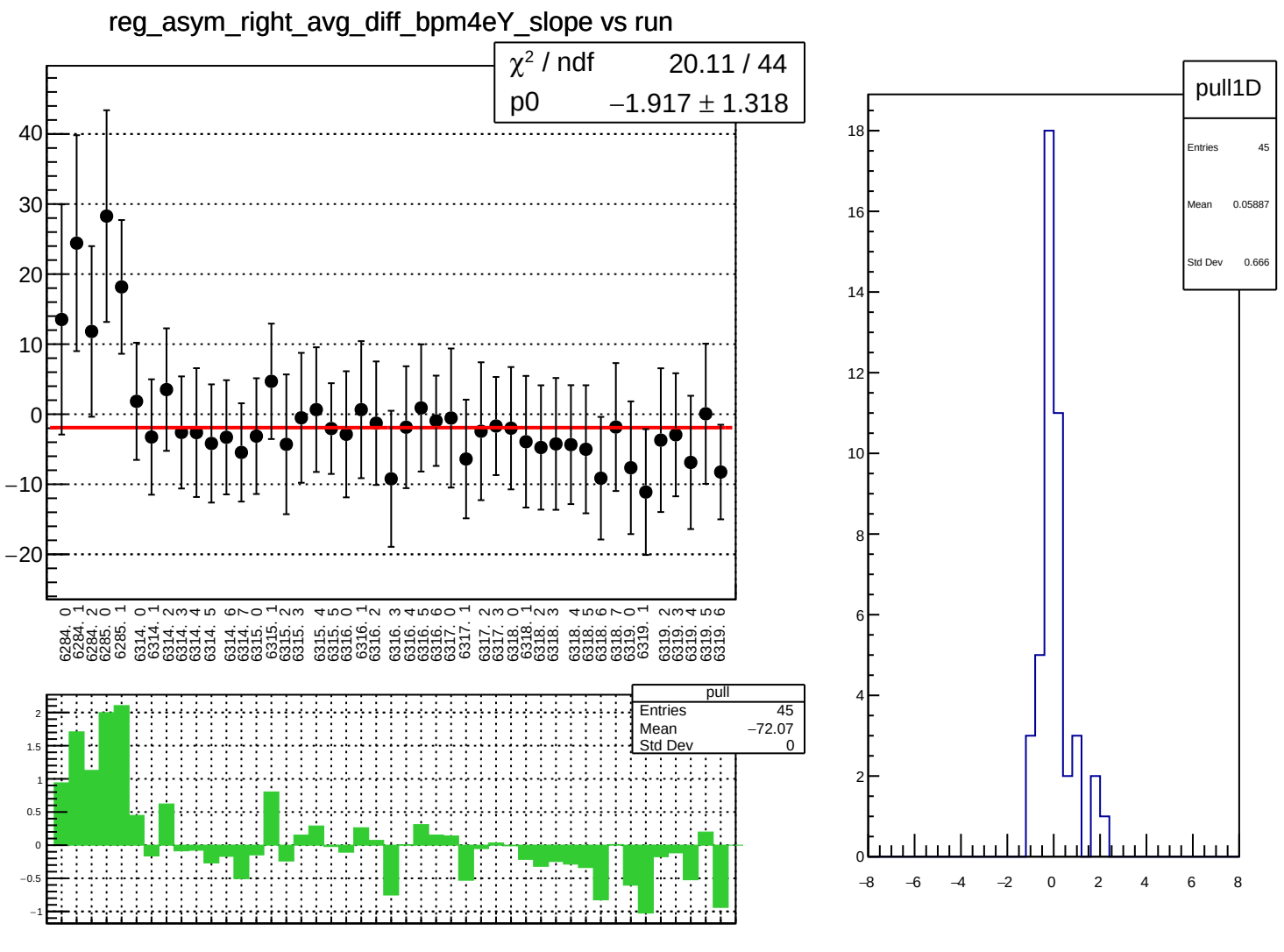

pull1D
Entries 45
Mean 0.01714
Std Dev 0.5558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

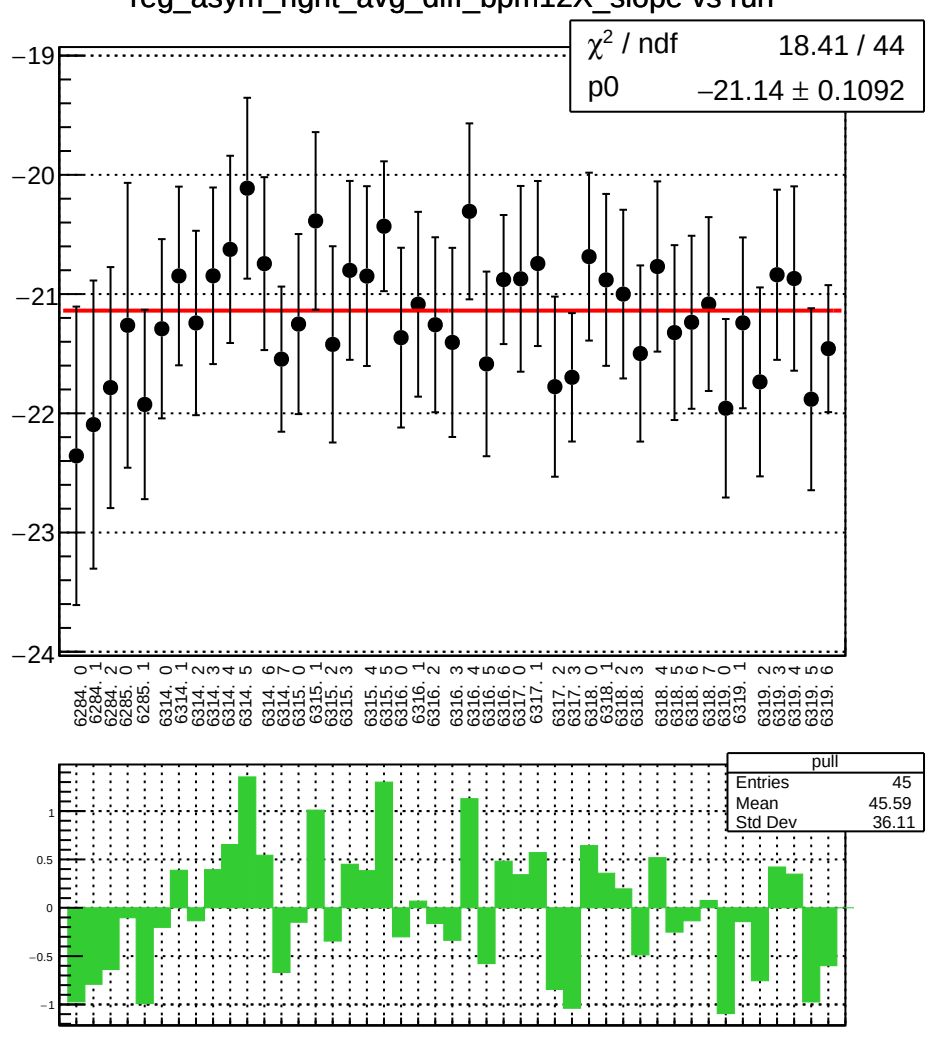

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.2 / 44
p0 5.54 ± 1.069
pull
Entries 45
Mean −62.75
Std Dev 0

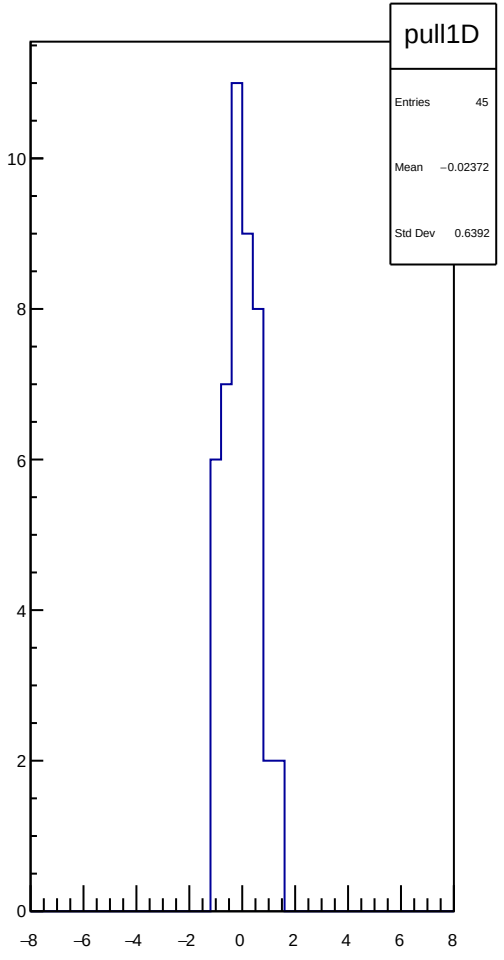

pull1D
Entries 45
Mean −0.04462
Std Dev 0.5397

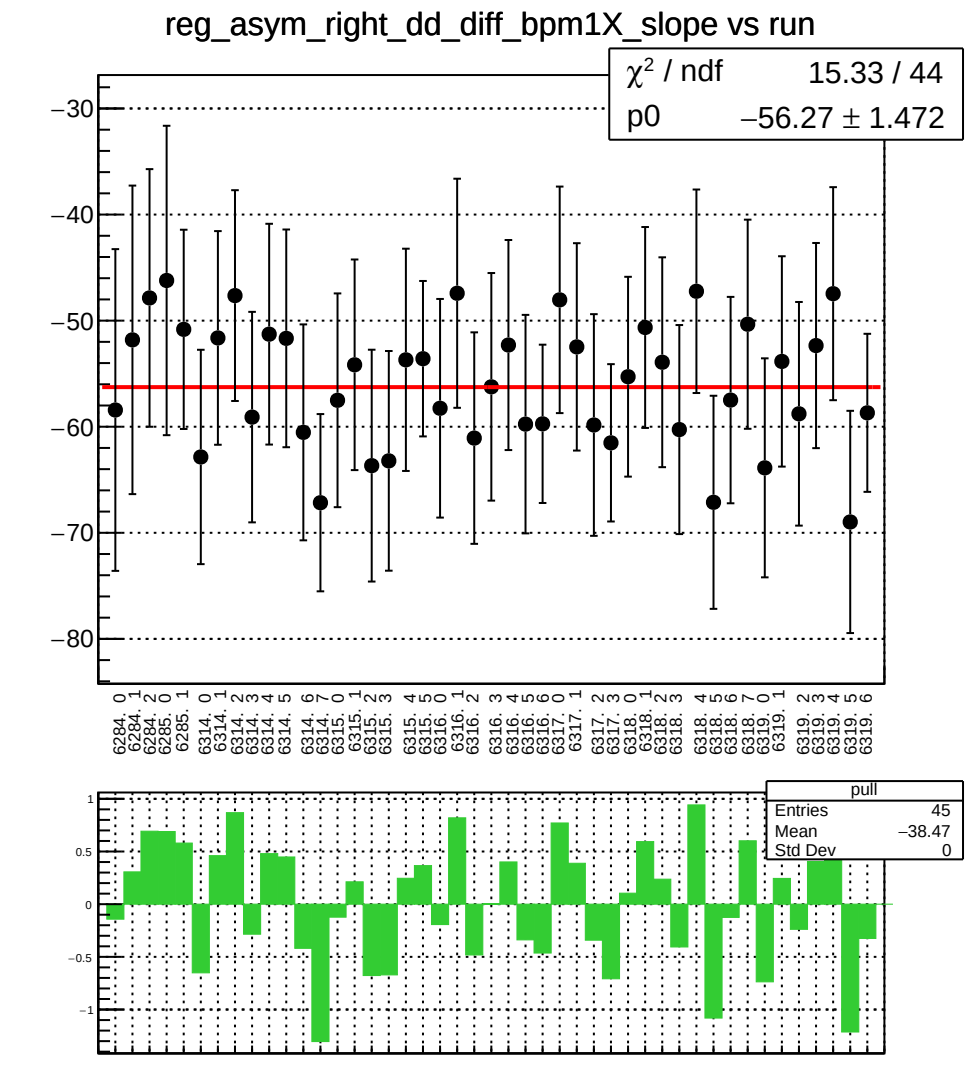

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.56 / 44
p0 89.24 ± 1.507
pull
Entries 45
Mean −57
Std Dev 0

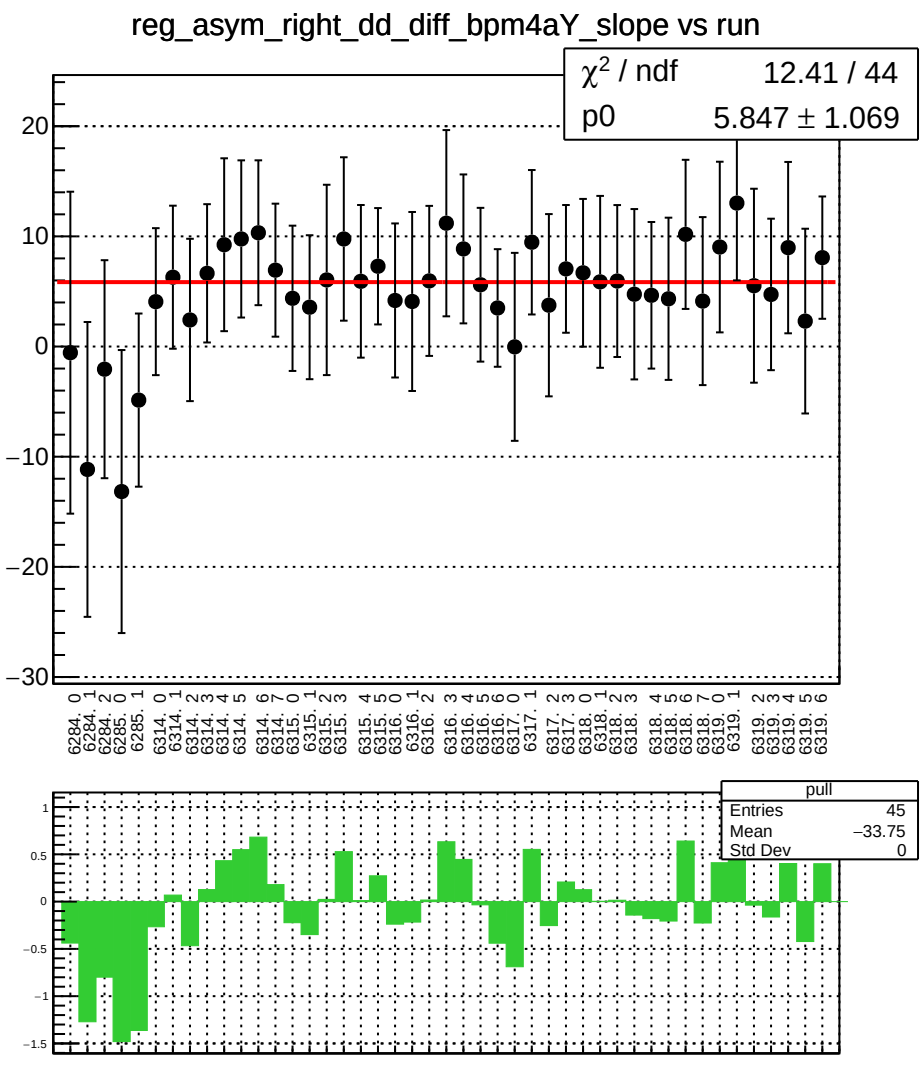

pull1D
Entries 45
Mean −0.01105
Std Dev 0.5282

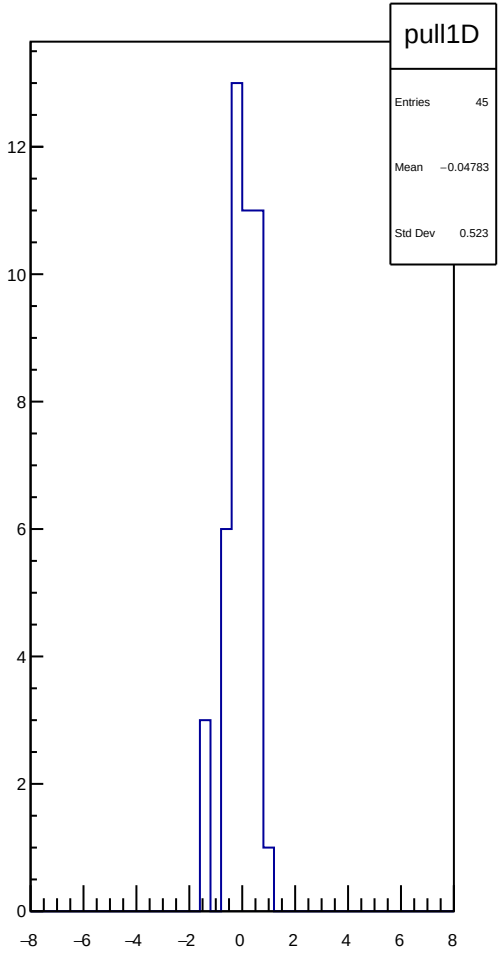

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.11 / 44
p0 −1.917 ± 1.318
pull
Entries 45
Mean −72.07
Std Dev 0
pull1D
Entries 45
Mean 0.05887
Std Dev 0.666

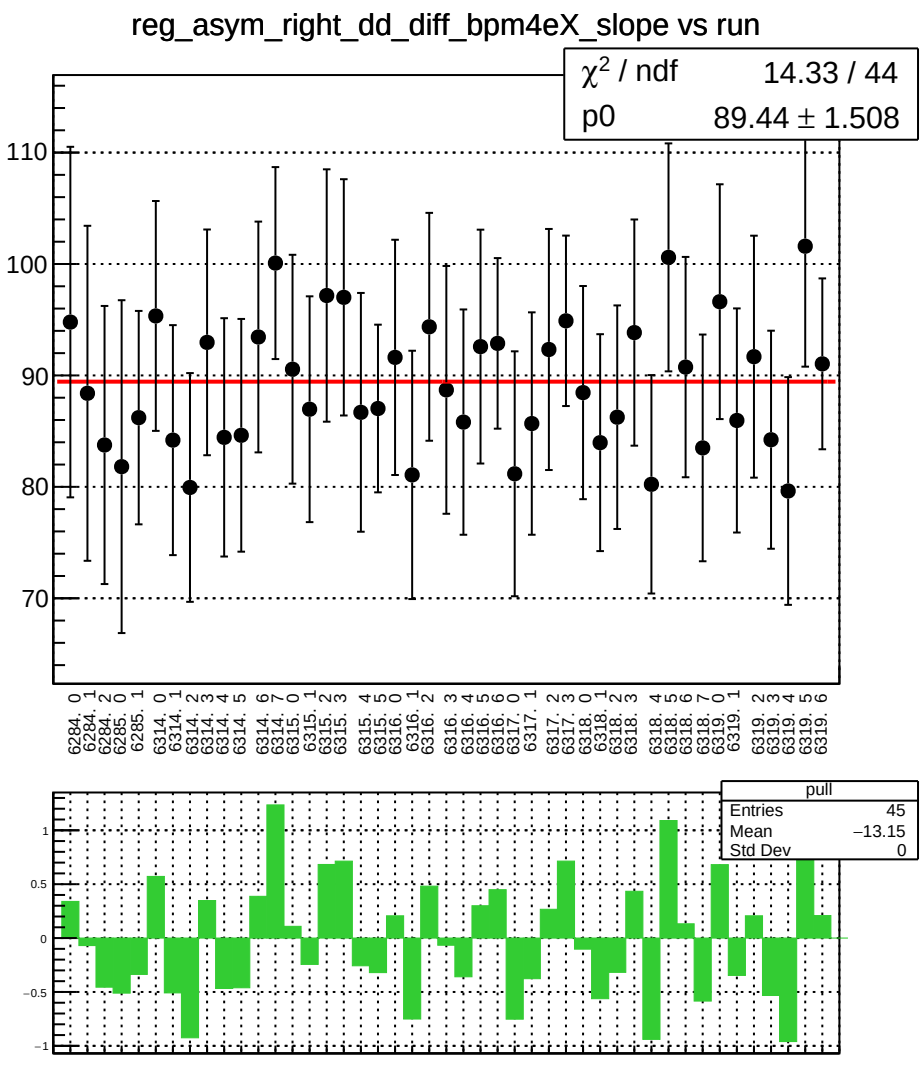

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 18.41 / 44
p0 −21.14 ± 0.1092
pull
Entries 45
Mean 45.59
Std Dev 36.11

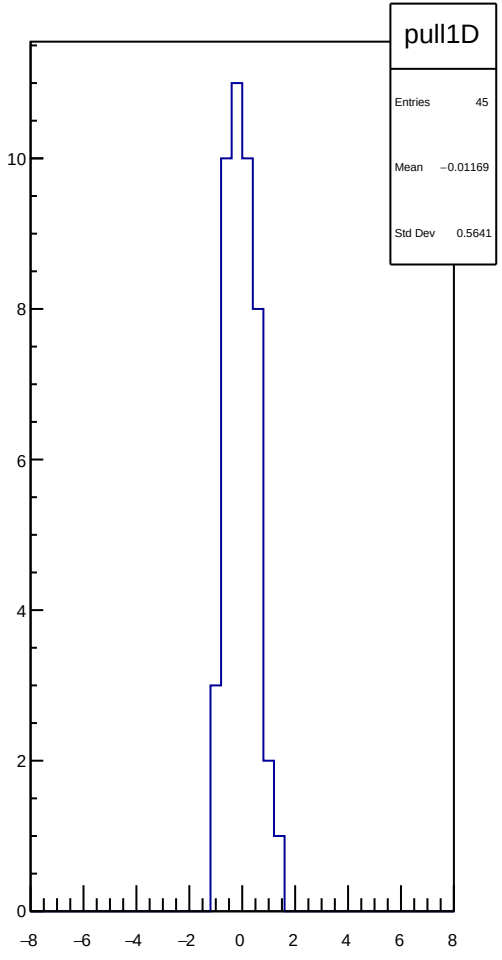

pull1D
Entries 45
Mean −0.02372
Std Dev 0.6392

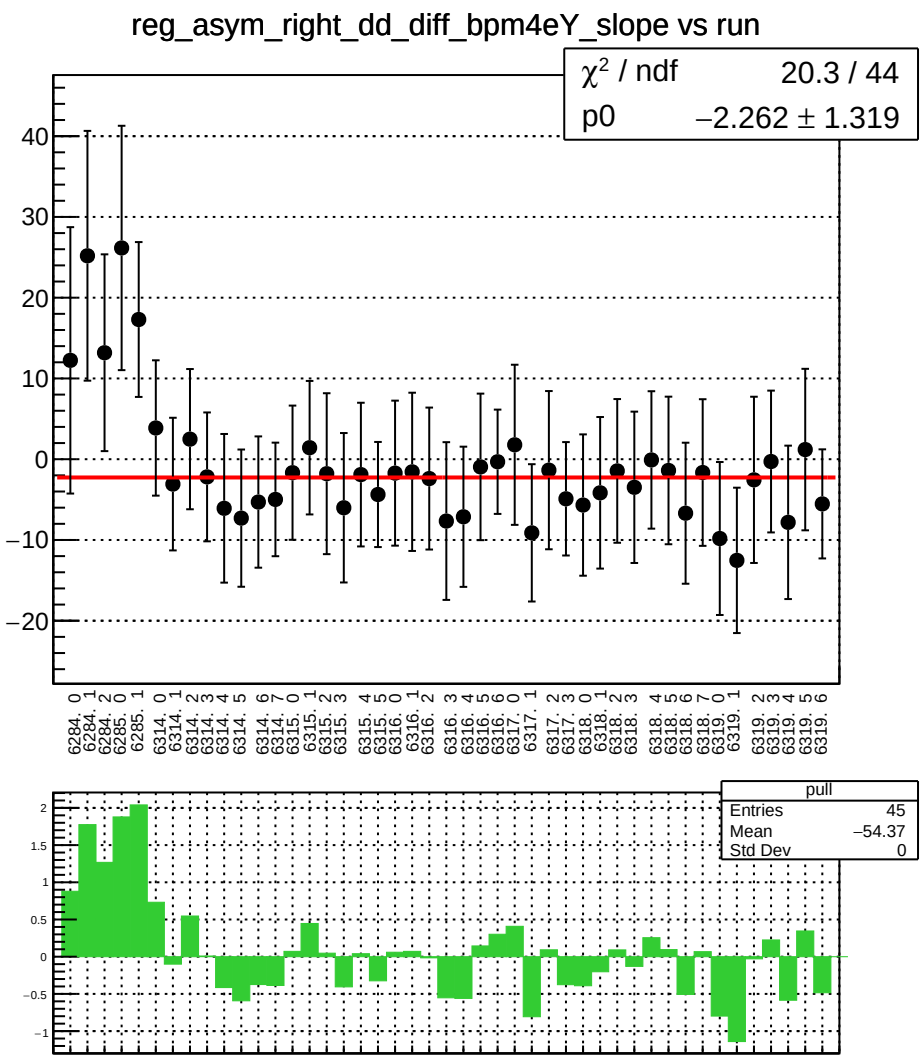

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 15.33 / 44
p0 −56.27 ± 1.472
−30
−40
−50
−60
−70
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −38.47
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.01802
Std Dev 0.5834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

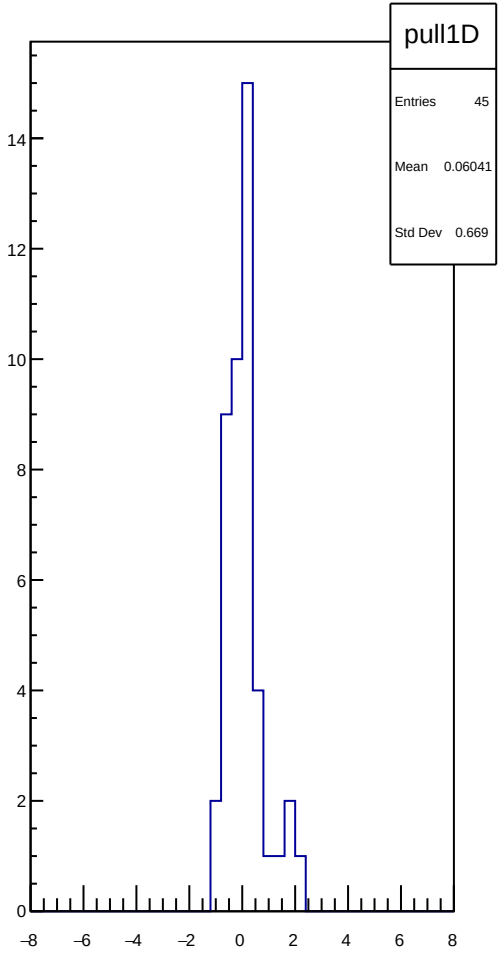

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.41 / 44
p0 5.847 ± 1.069
pull
Entries 45
Mean −33.75
Std Dev 0

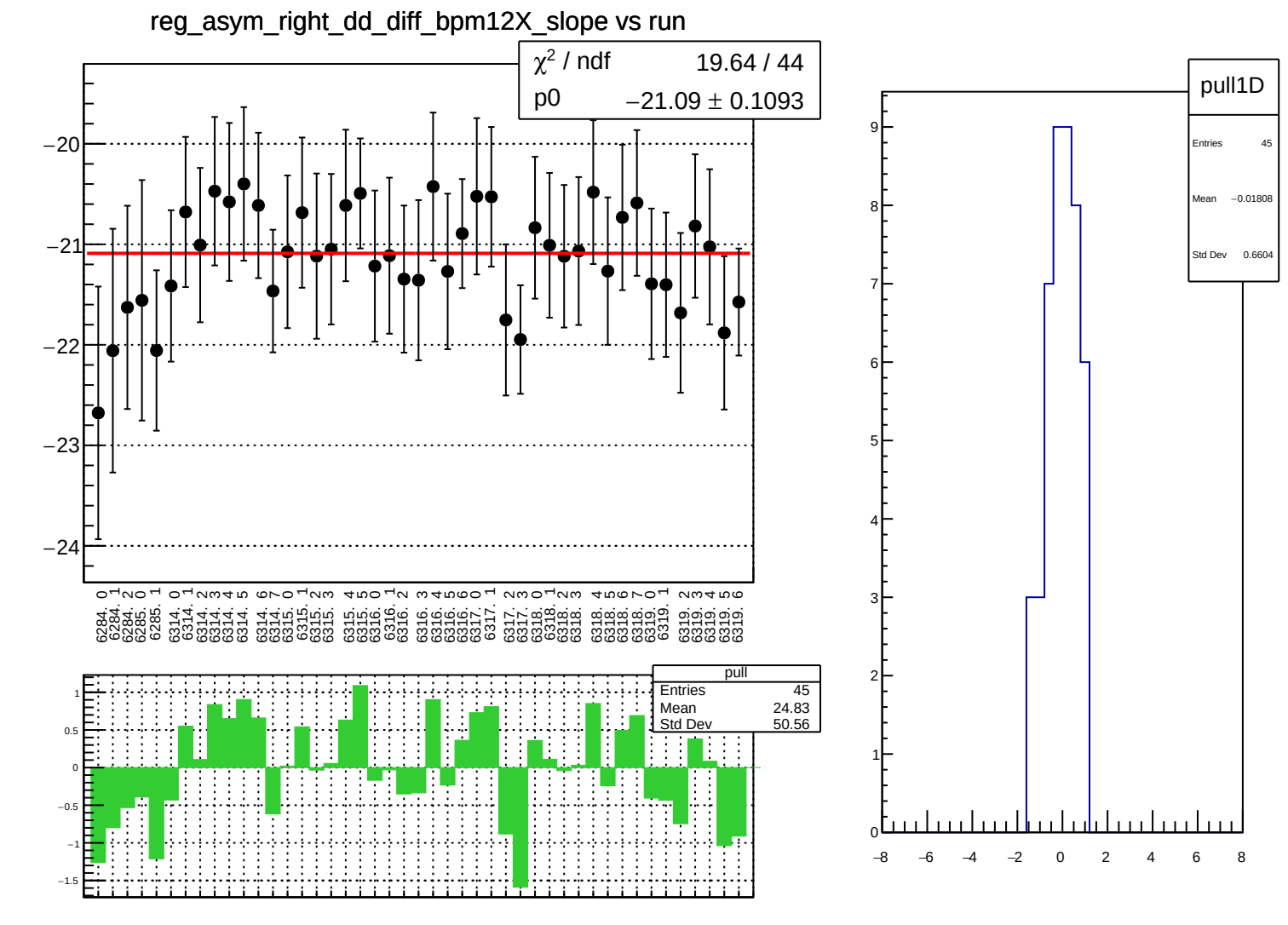

pull1D
Entries 45
Mean −0.04783
Std Dev 0.523

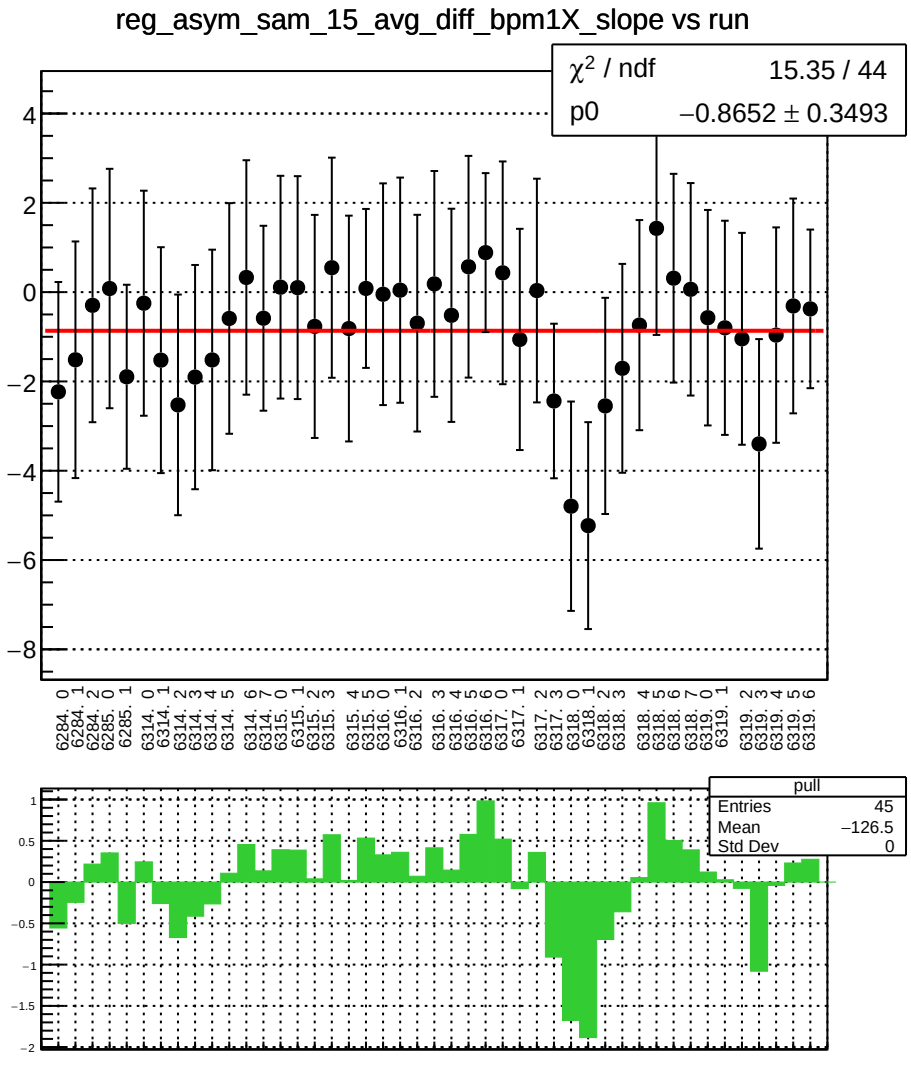

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.33 / 44
p0 89.44 ± 1.508
110
100
90
80
70
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −13.15
Std Dev 0
1
0.5
0
−0.5
−1

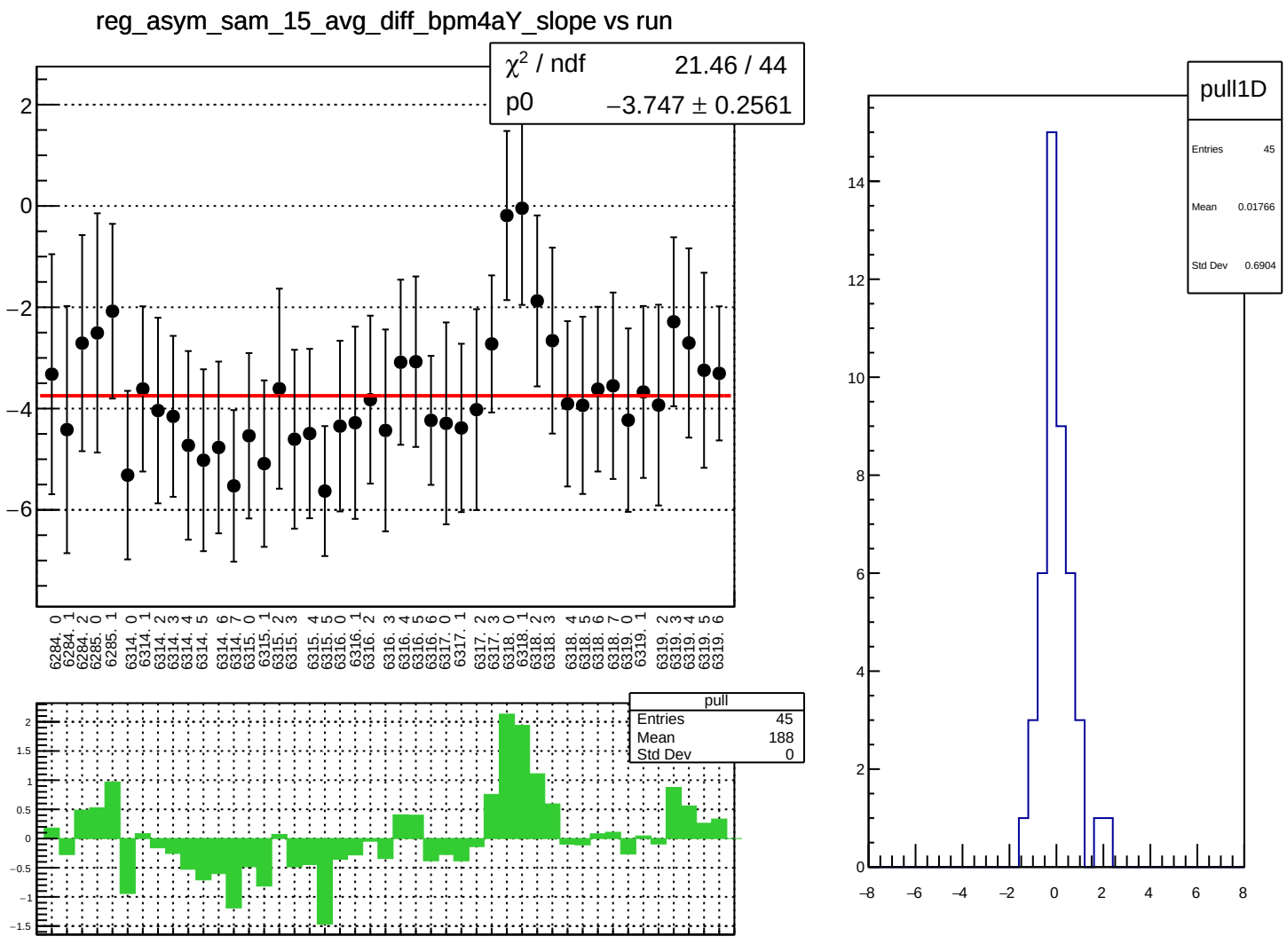

pull1D
Entries 45
Mean −0.01169
Std Dev 0.5641
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

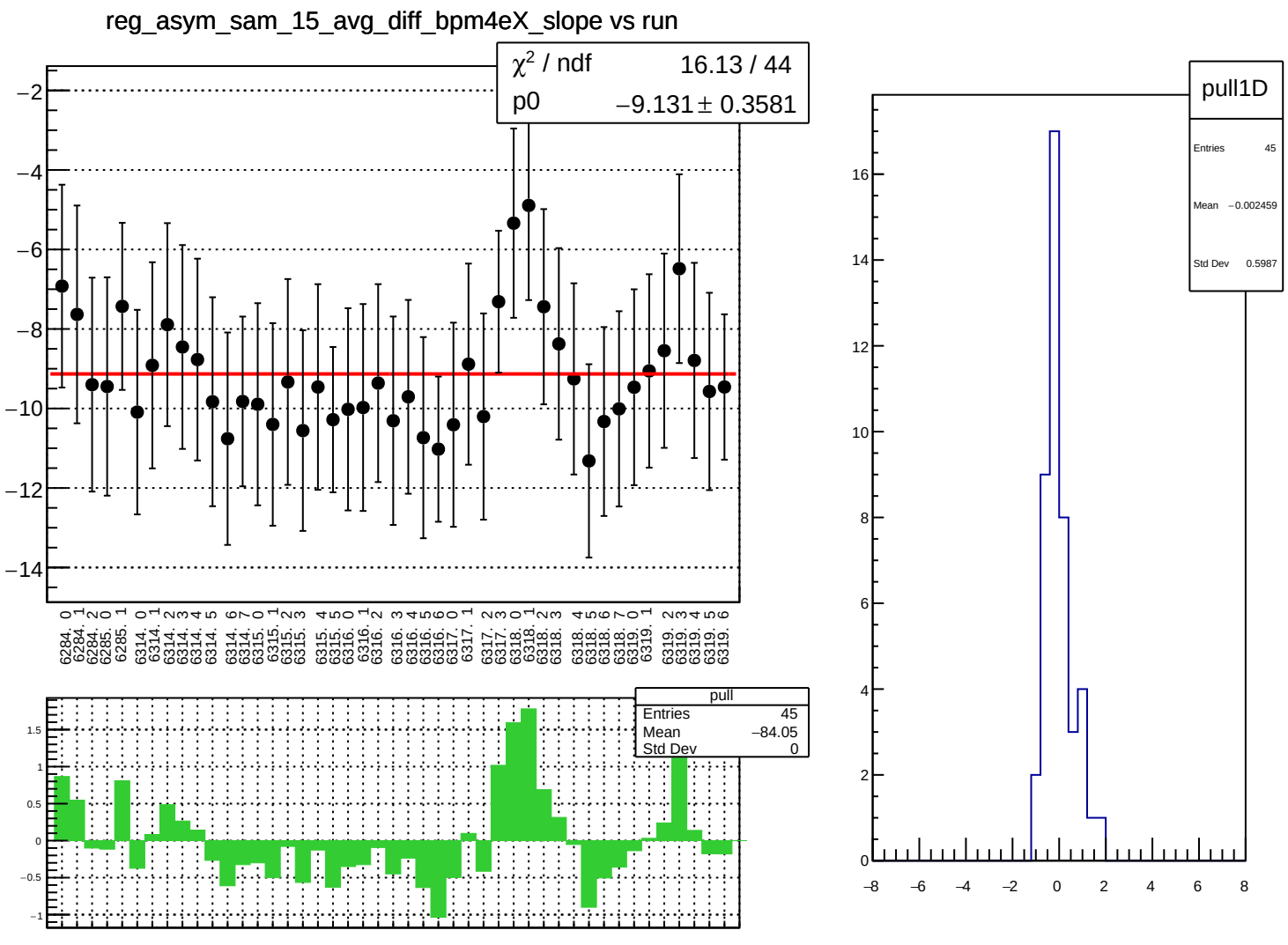

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.3 / 44
p0 −2.262 ± 1.319
pull
Entries 45
Mean −54.37
Std Dev 0

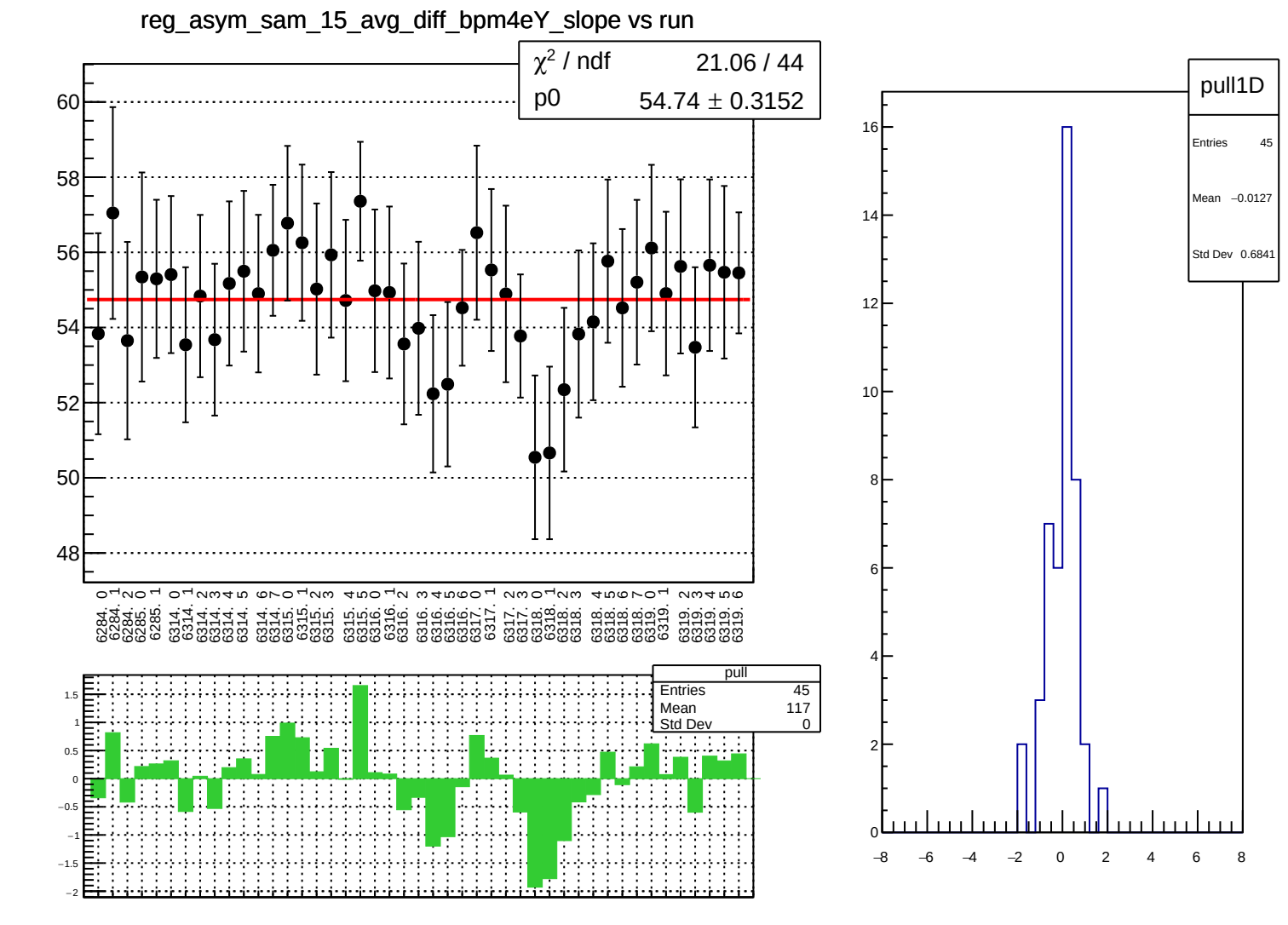

pull1D
Entries 45
Mean 0.06041
Std Dev 0.669

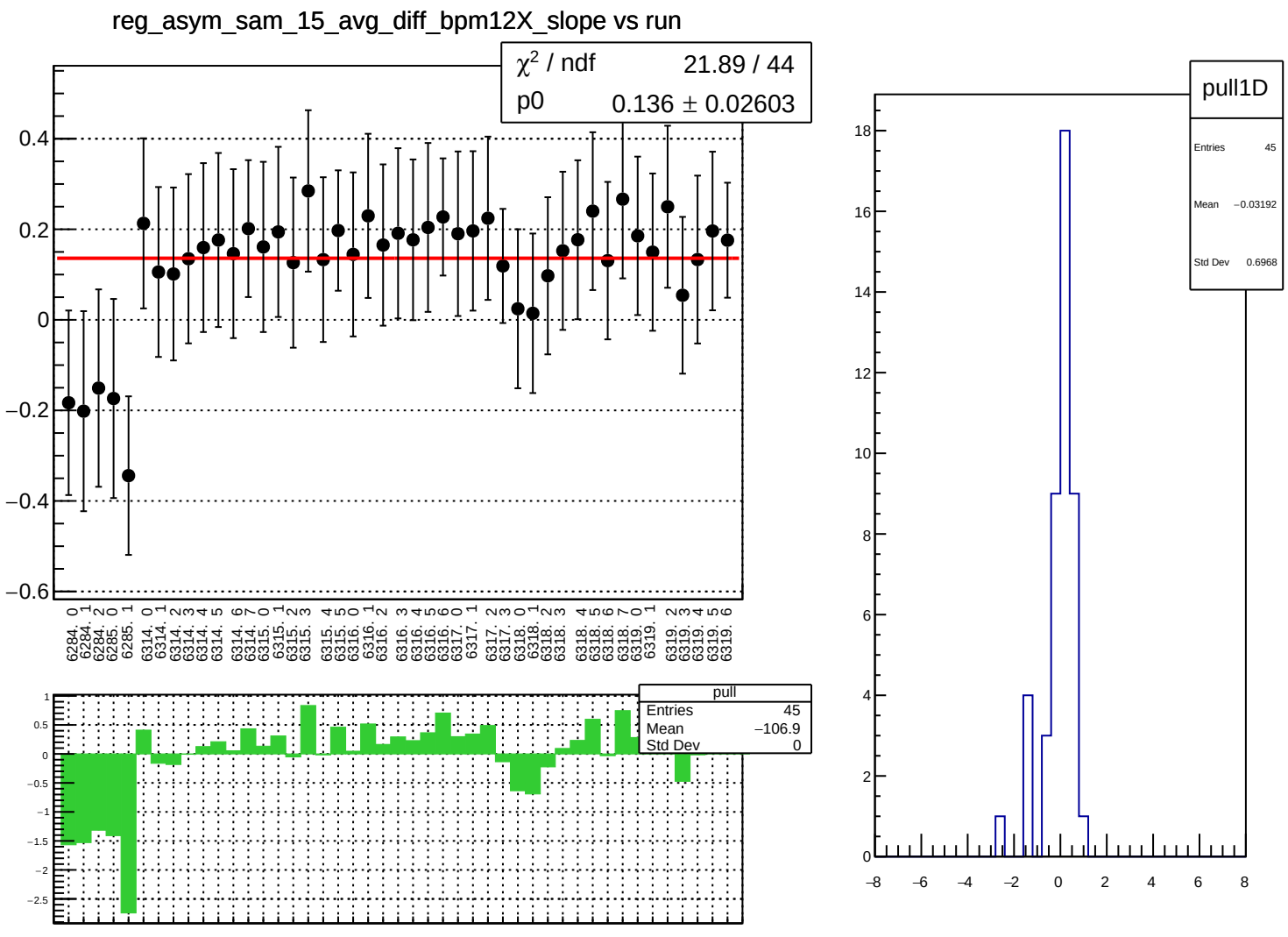

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 19.64 / 44
p0 −21.09 ± 0.1093
pull
Entries 45
Mean 24.83
Std Dev 50.56
pull1D
Entries 45
Mean −0.01808
Std Dev 0.6604

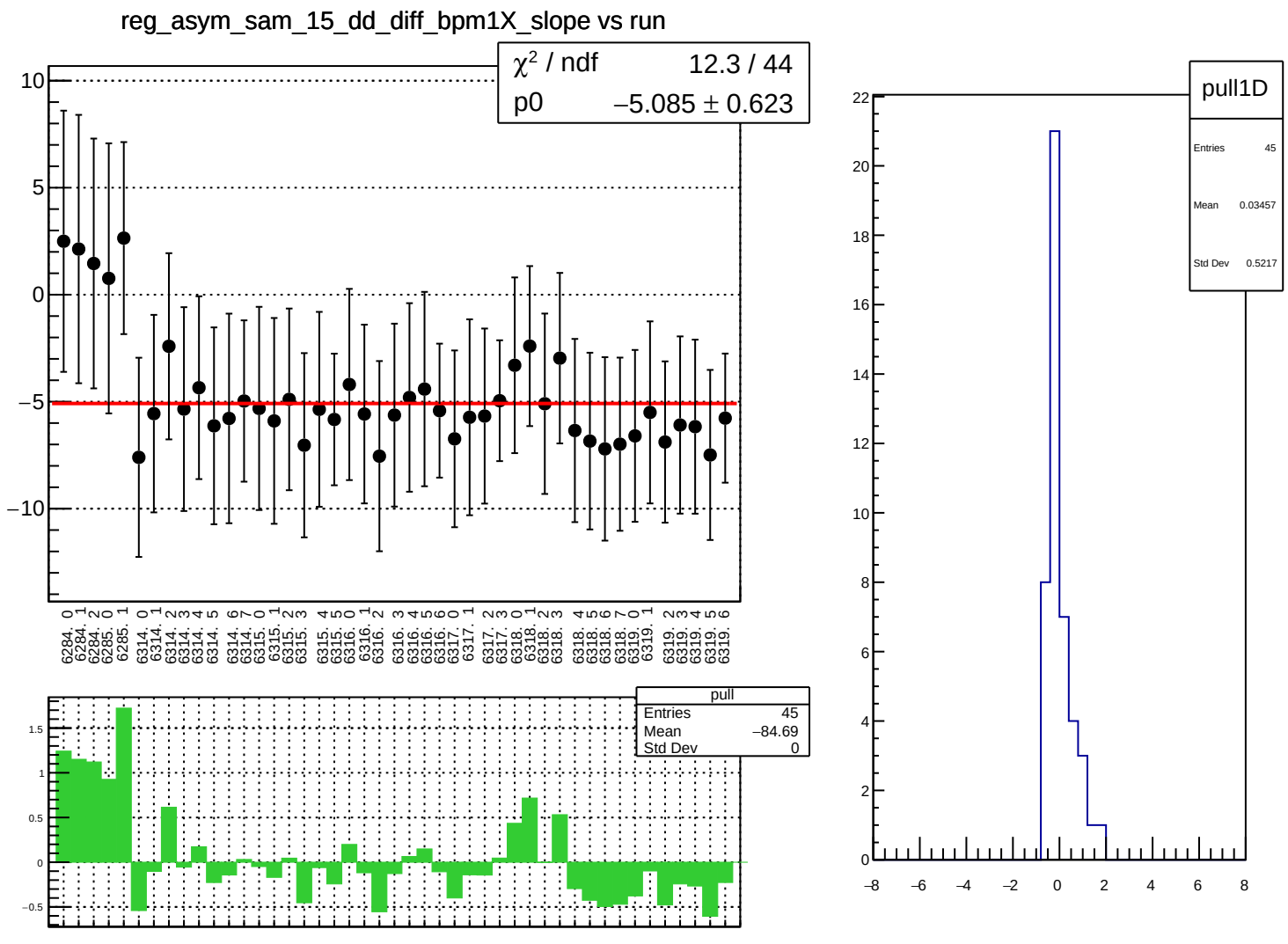

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 15.35 / 44
p0 −0.8652 ± 0.3493
pull
Entries 45
Mean −126.5
Std Dev 0
pull1D
Entries 45
Mean 0.00152
Std Dev 0.5841

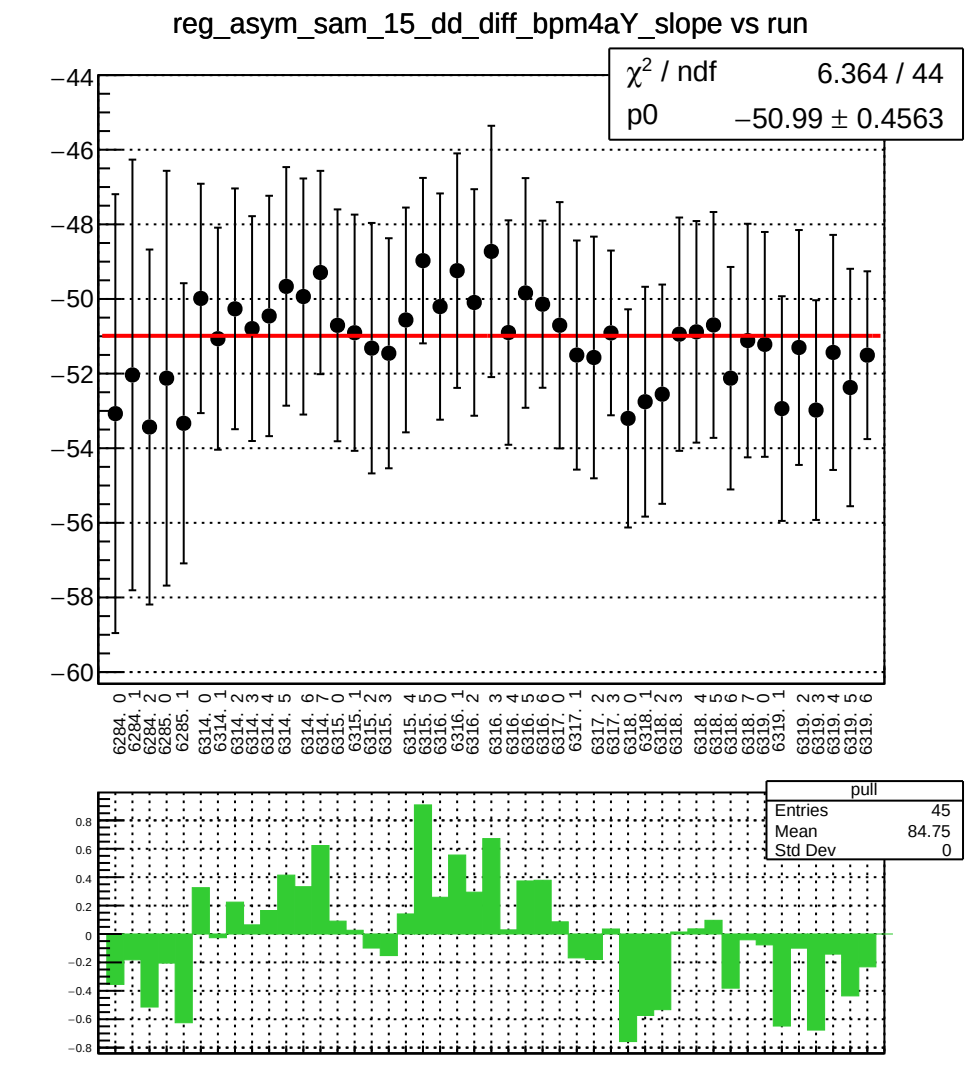

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.46 / 44
p0 −3.747 ± 0.2561
pull
Entries 45
Mean 188
Std Dev 0
pull1D
Entries 45
Mean 0.01766
Std Dev 0.6904

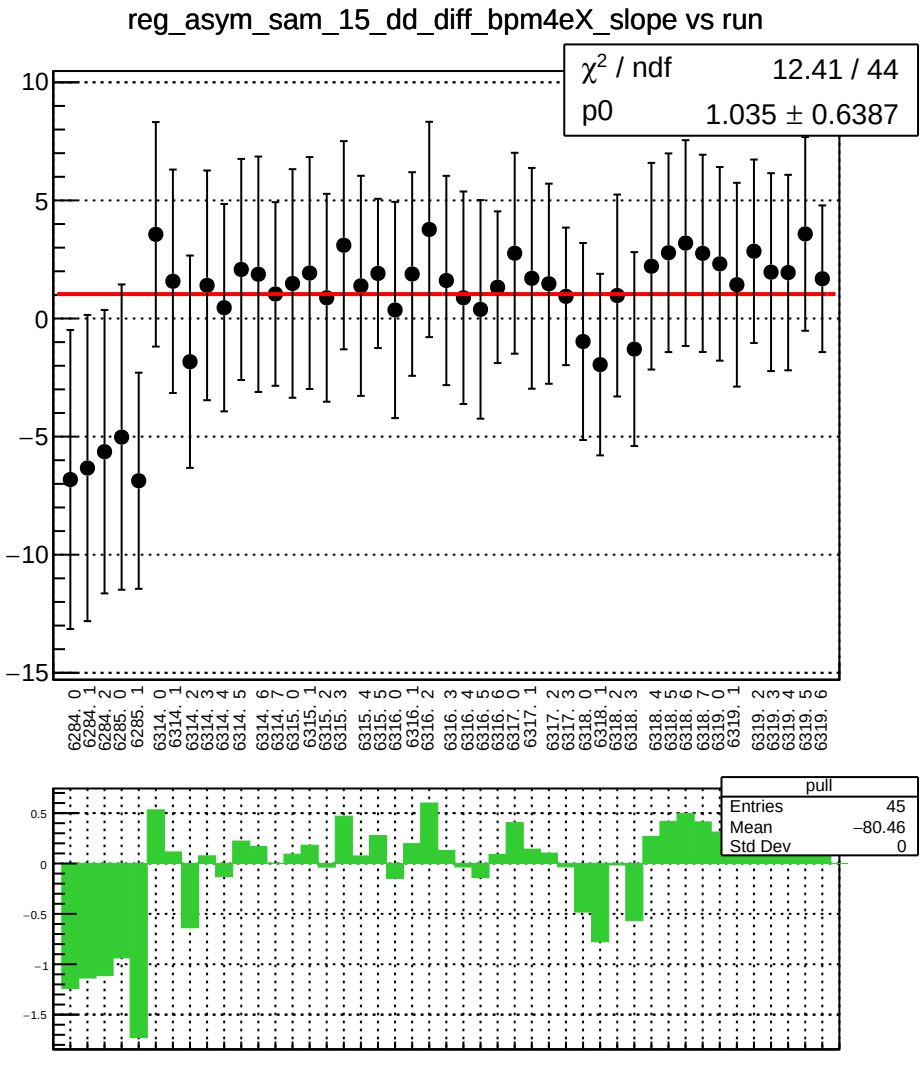

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.13 / 44
p0 −9.131 ± 0.3581
pull
Entries 45
Mean −84.05
Std Dev 0
pull1D
Entries 45
Mean −0.002459
Std Dev 0.5987

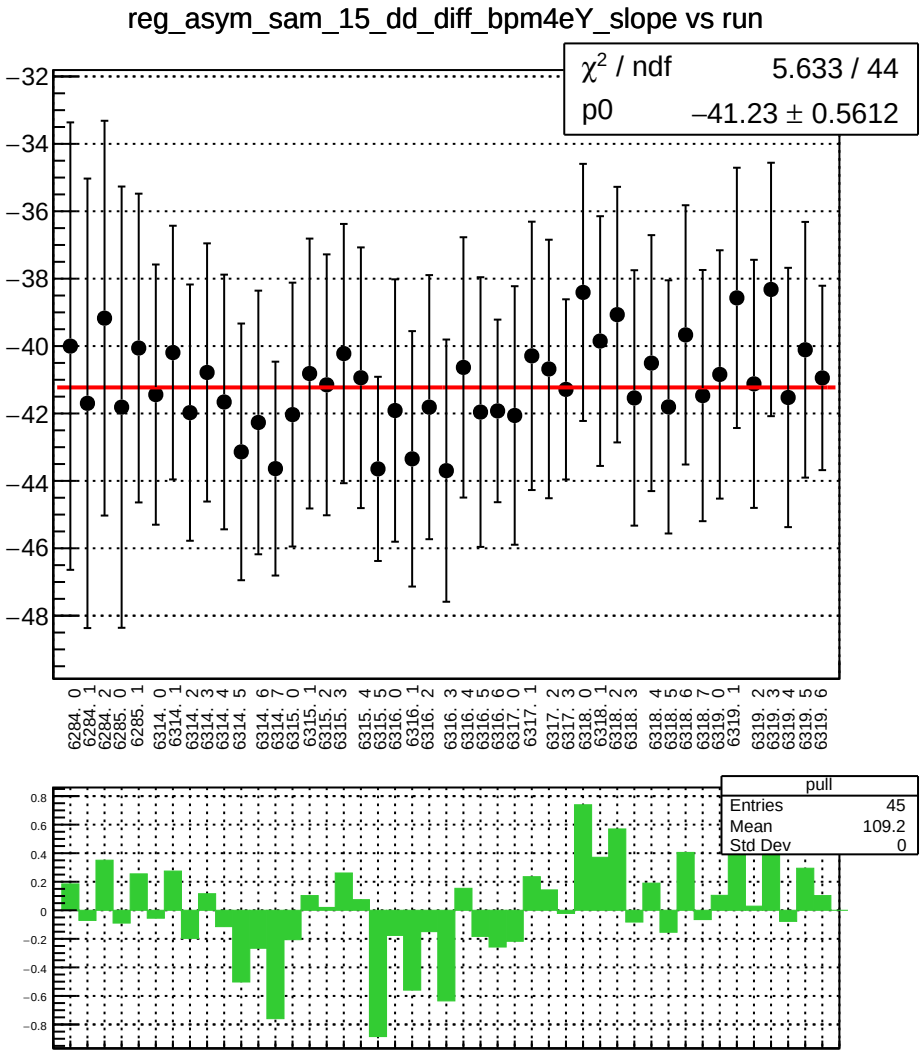

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.06 / 44
p0 54.74 ± 0.3152
pull
Entries 45
Mean 117
Std Dev 0
pull1D
Entries 45
Mean −0.0127
Std Dev 0.6841

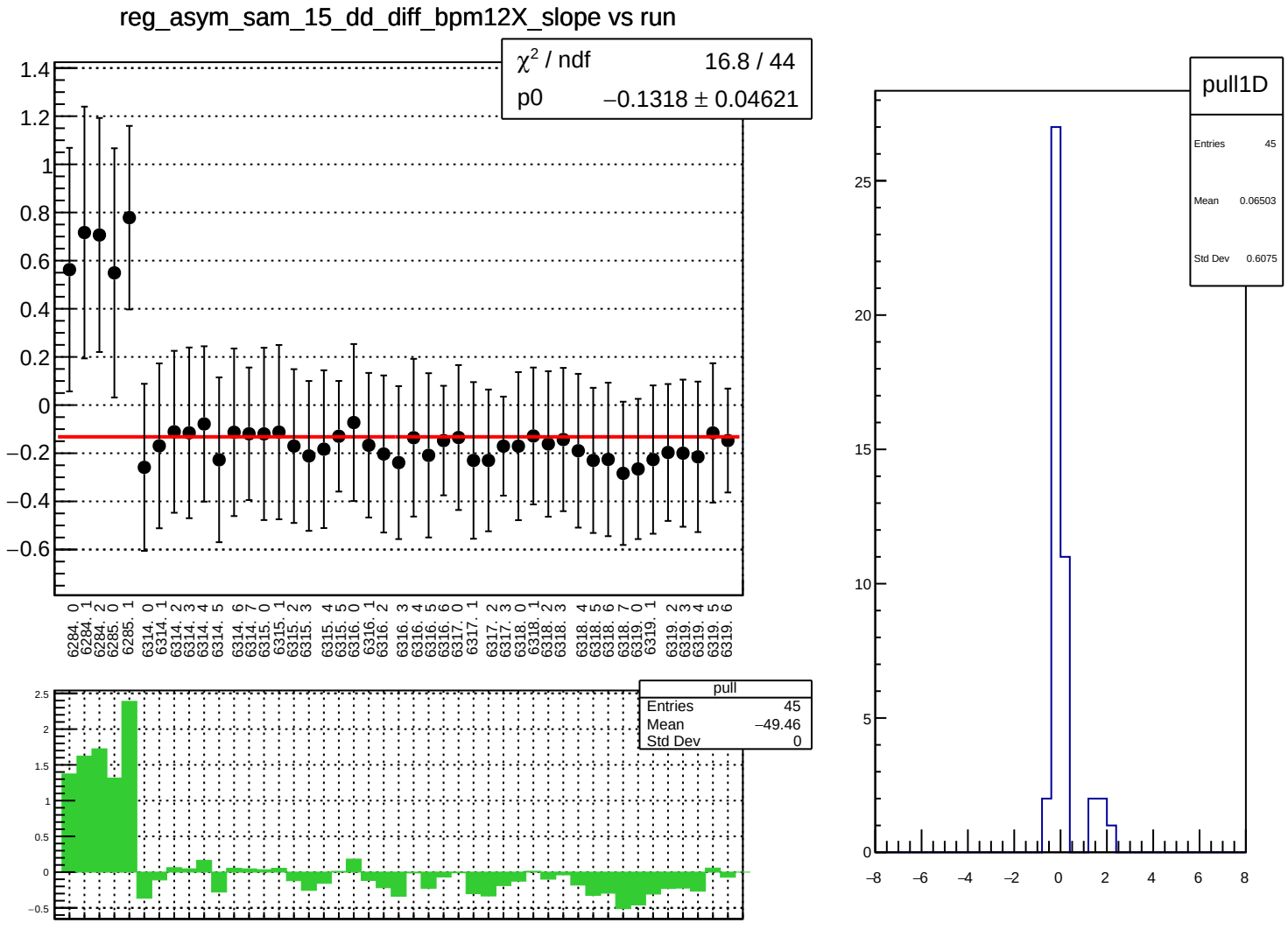

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 21.89 / 44
p0 0.136 ± 0.02603
pull
Entries 45
Mean −106.9
Std Dev 0
pull1D
Entries 45
Mean −0.03192
Std Dev 0.6968

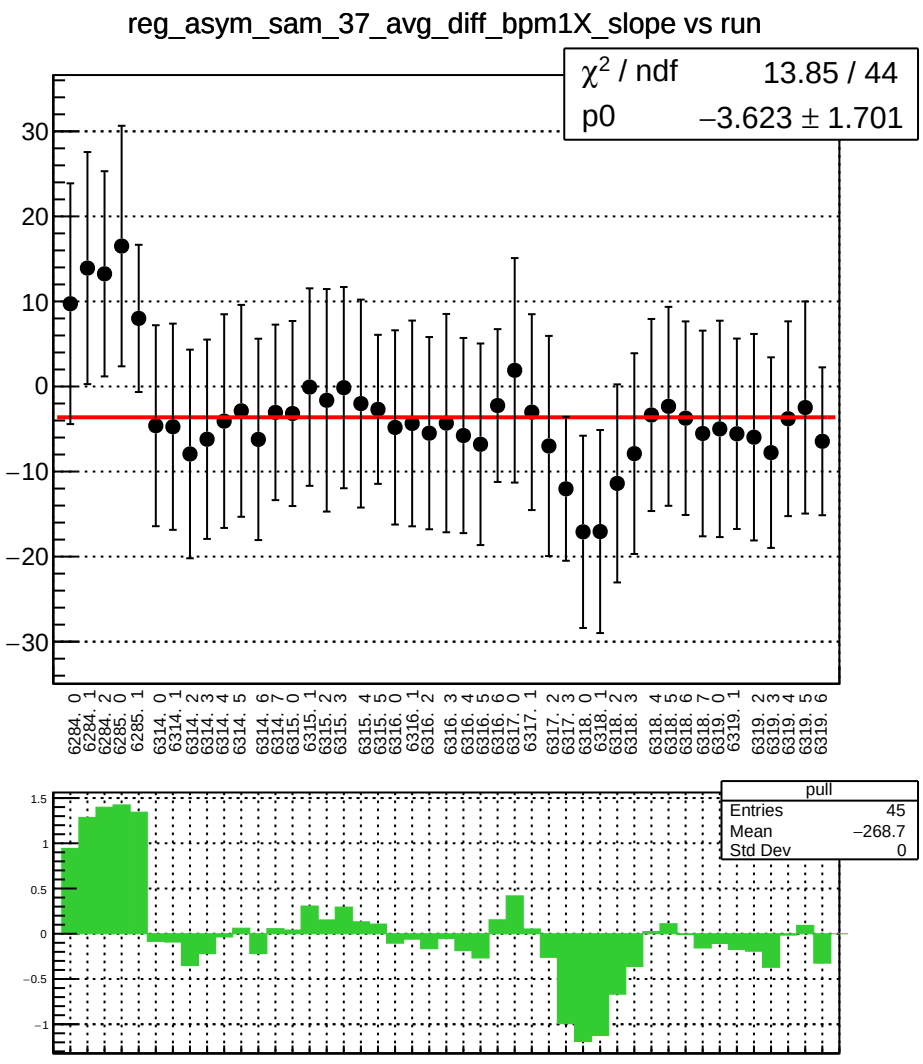

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 12.3 / 44
p0 −5.085 ± 0.623
pull
Entries 45
Mean −84.69
Std Dev 0
pull1D
Entries 45
Mean 0.03457
Std Dev 0.5217

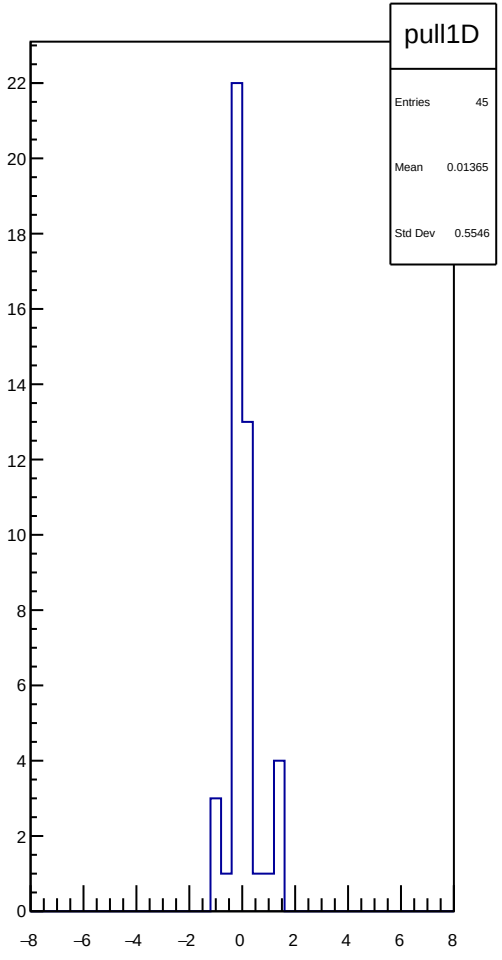

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.364 / 44
p0 −50.99 ± 0.4563
−44
−46
−48
−50
−52
−54
−56
−58
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 84.75
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.02117
Std Dev 0.3755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

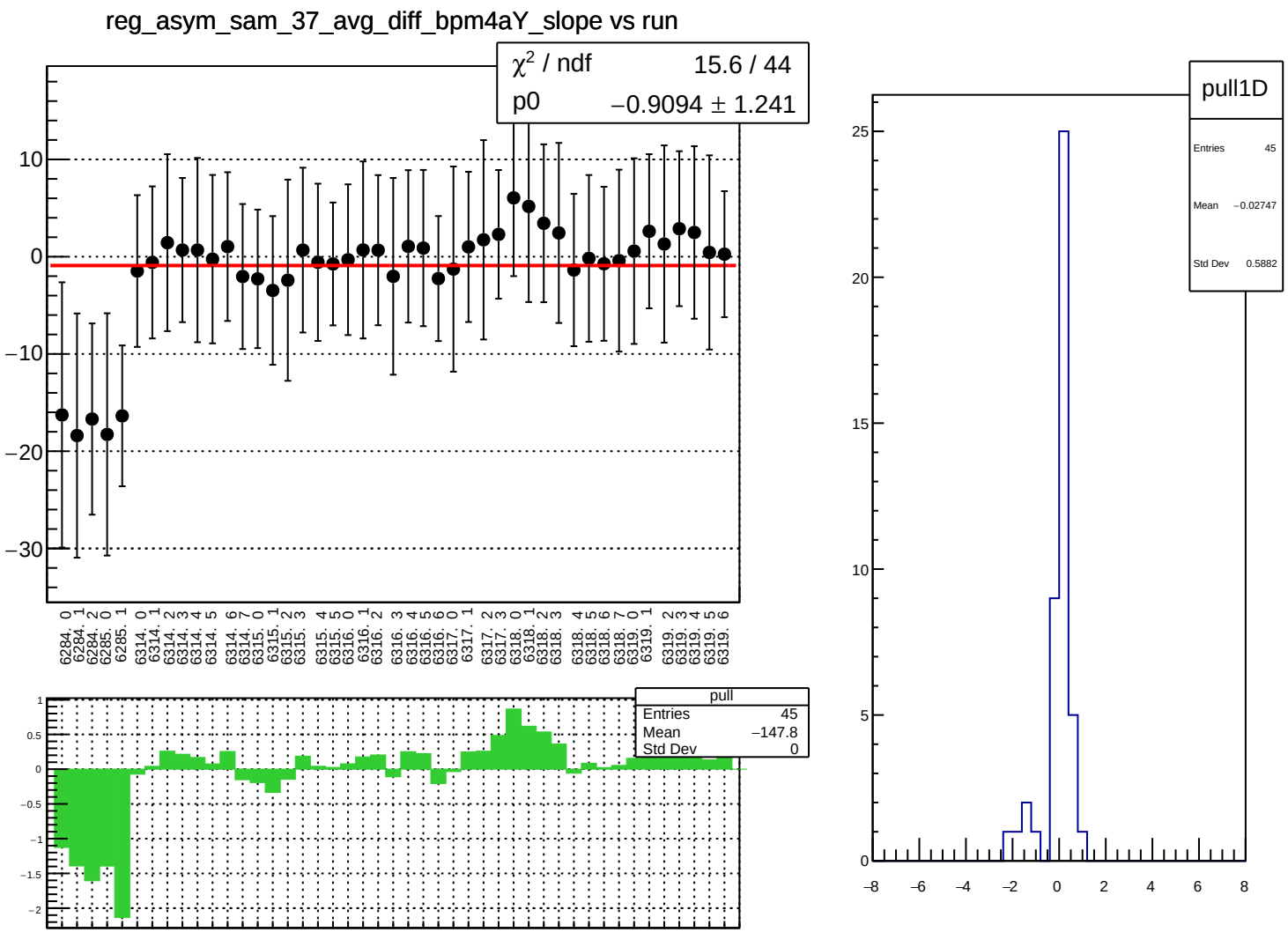

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.41 / 44
p0 1.035 ± 0.6387
pull
Entries 45
Mean −80.46
Std Dev 0
pull1D
Entries 45
Mean −0.03423
Std Dev 0.524

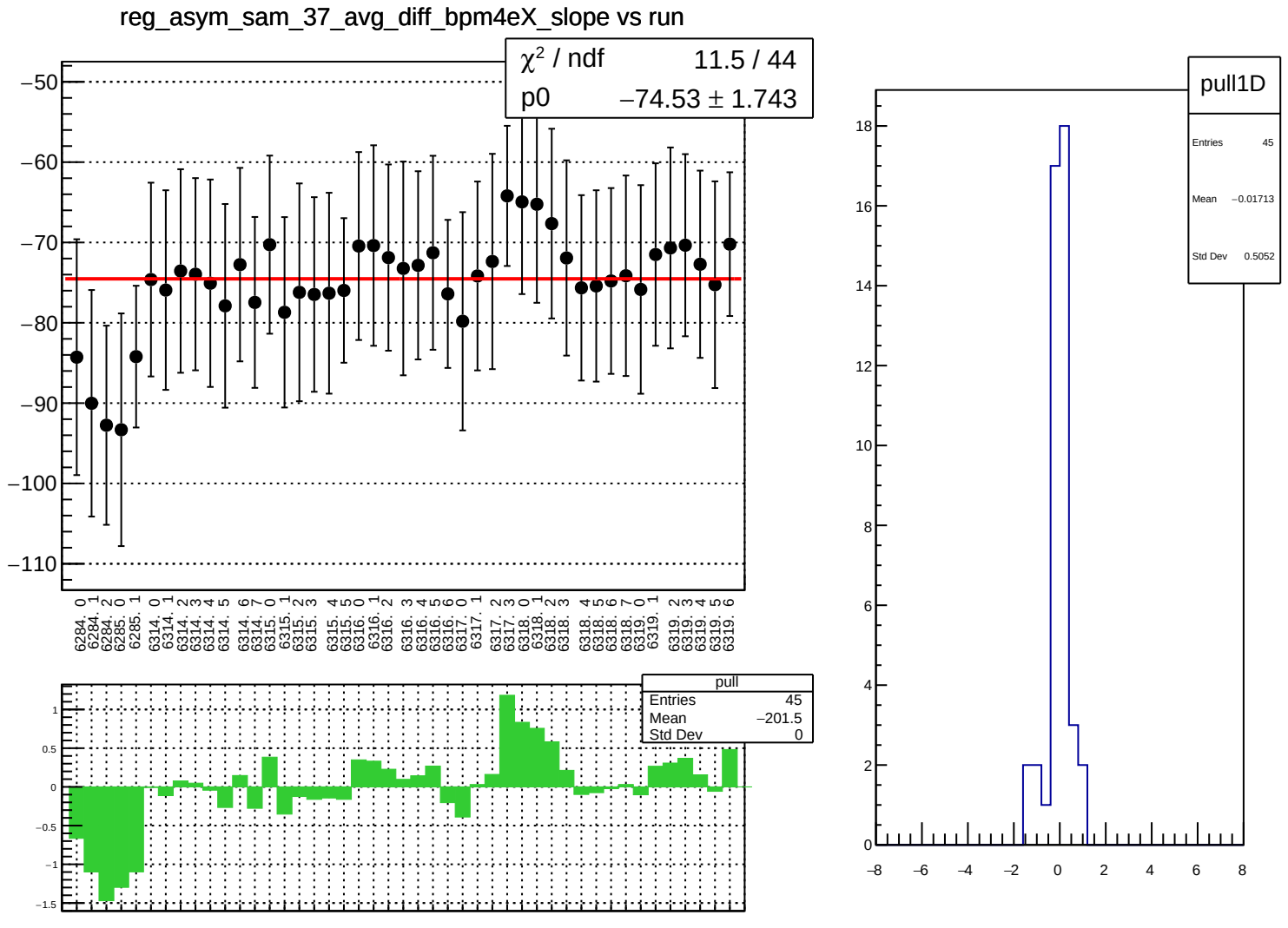

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.633 / 44
p0 −41.23 ± 0.5612
pull
Entries 45
Mean 109.2
Std Dev 0
pull1D
Entries 45
Mean 0.01595
Std Dev 0.3535

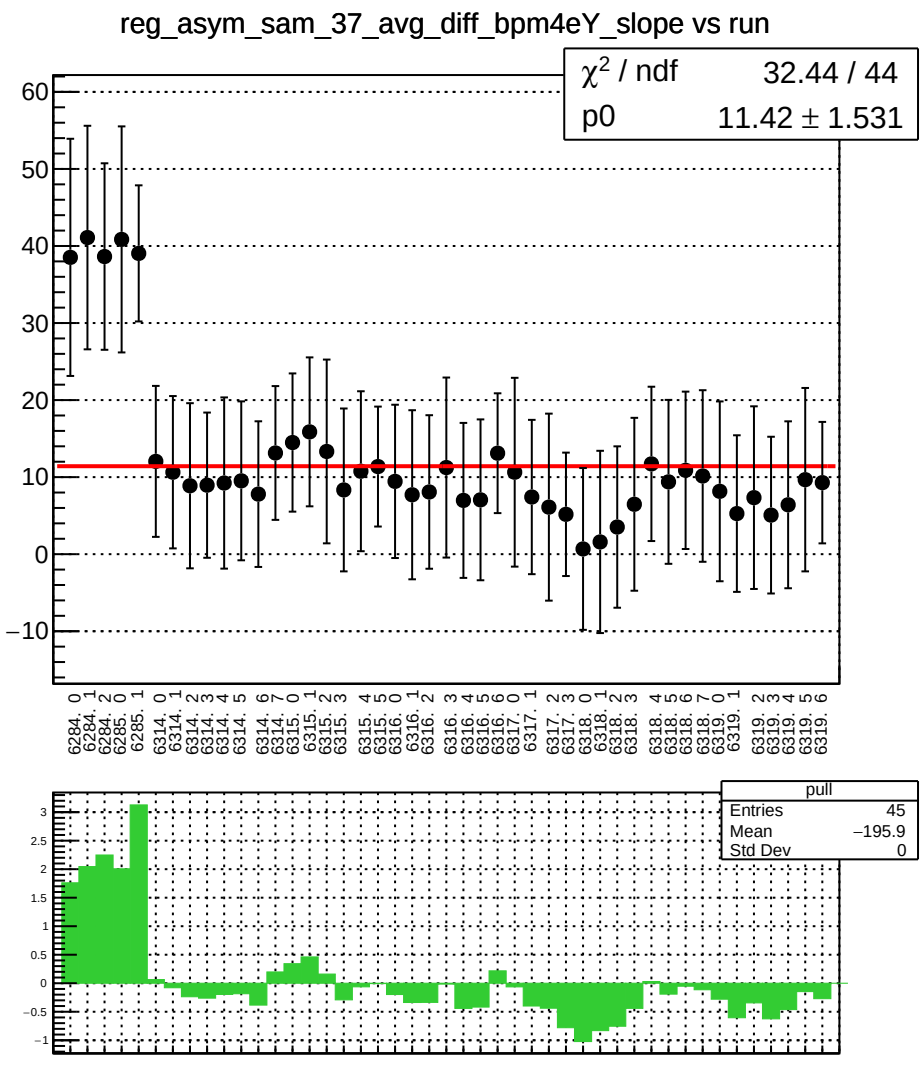

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 16.8 / 44
p0 −0.1318 ± 0.04621
pull
Entries 45
Mean −49.46
Std Dev 0
pull1D
Entries 45
Mean 0.06503
Std Dev 0.6075

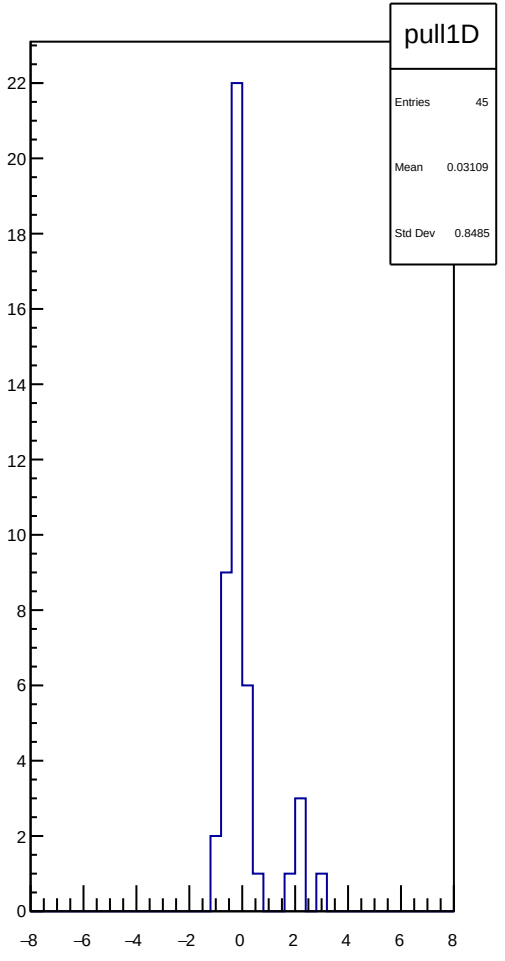

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 13.85 / 44
p0 −3.623 ± 1.701
pull
Entries 45
Mean −268.7
Std Dev 0

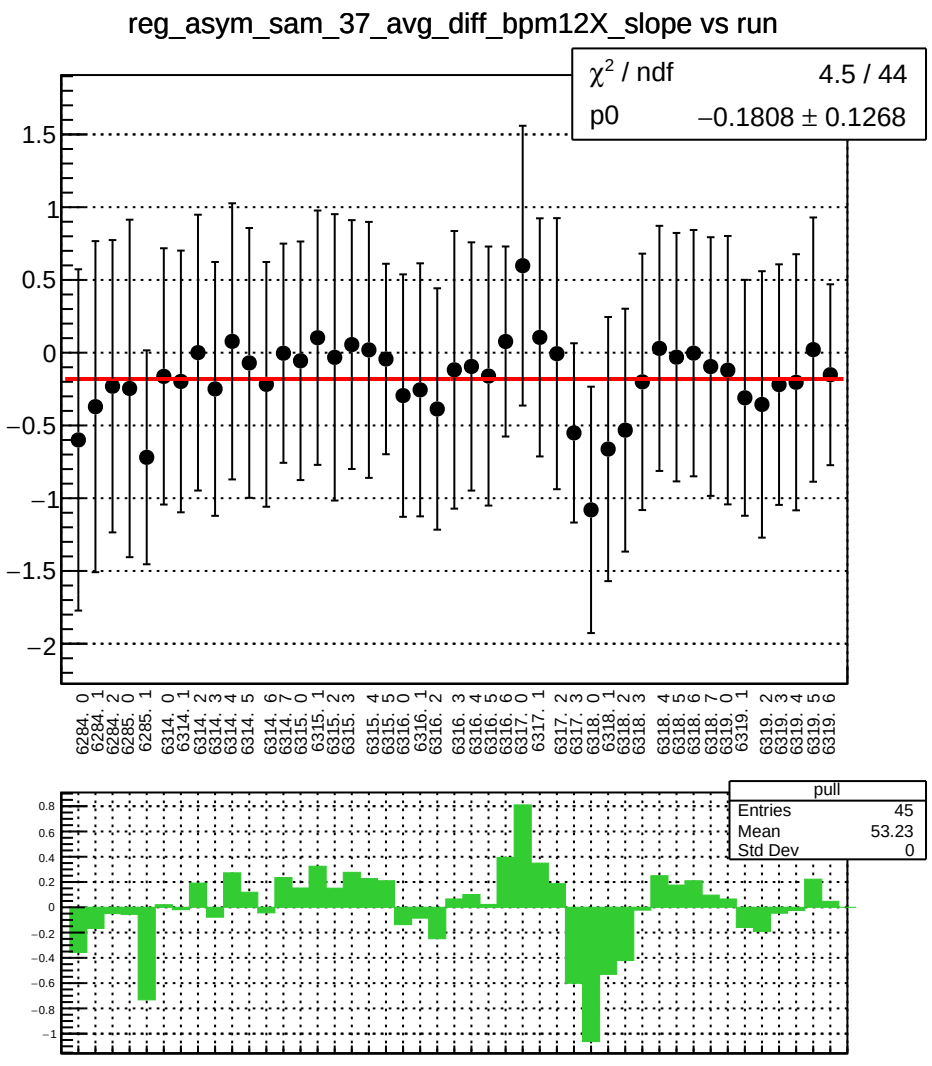

pull1D
Entries 45
Mean 0.01365
Std Dev 0.5546

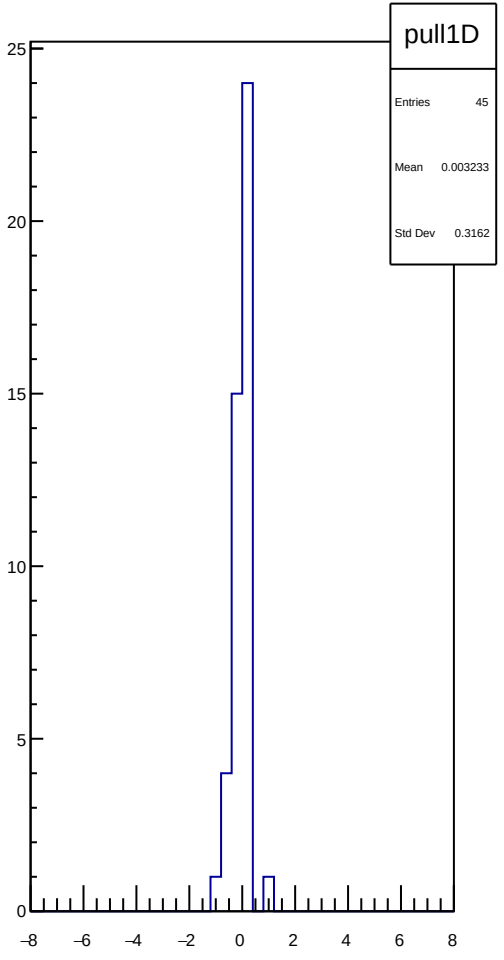

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.6 / 44
p0 −0.9094 ± 1.241
10
0
−10
−20
−30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −147.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02747
Std Dev 0.5882
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

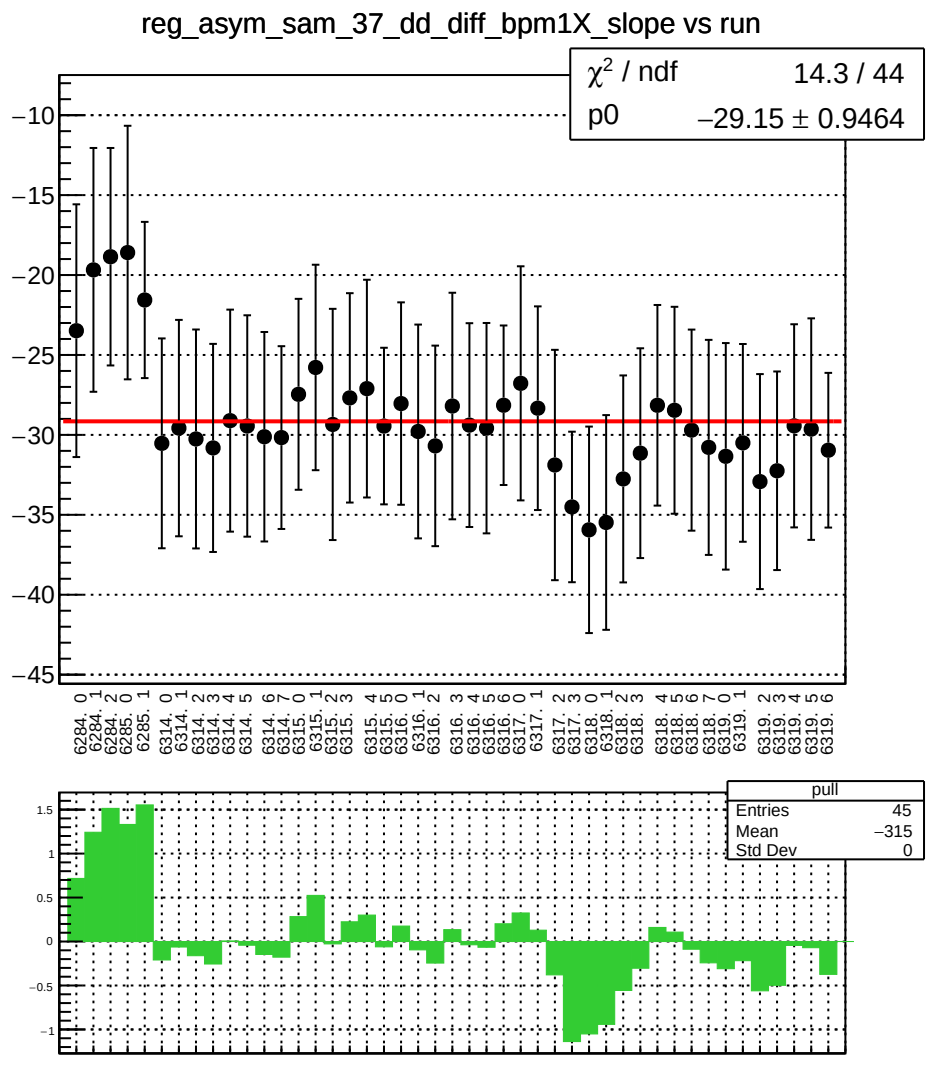

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.5 / 44
p0 −74.53 ± 1.743
−50
−60
−70
−80
−90
−100
−110
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −201.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01713
Std Dev 0.5052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

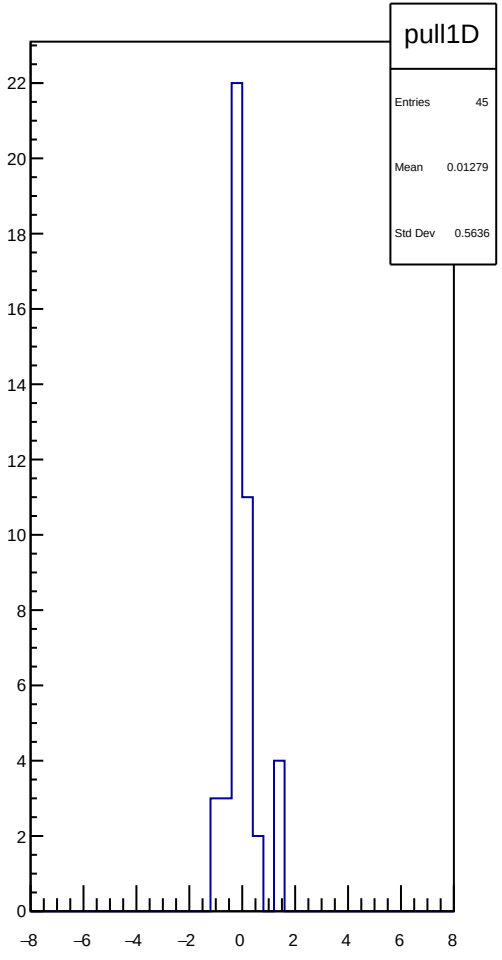

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.44 / 44
p0 11.42 ± 1.531
pull
Entries 45
Mean −195.9
Std Dev 0

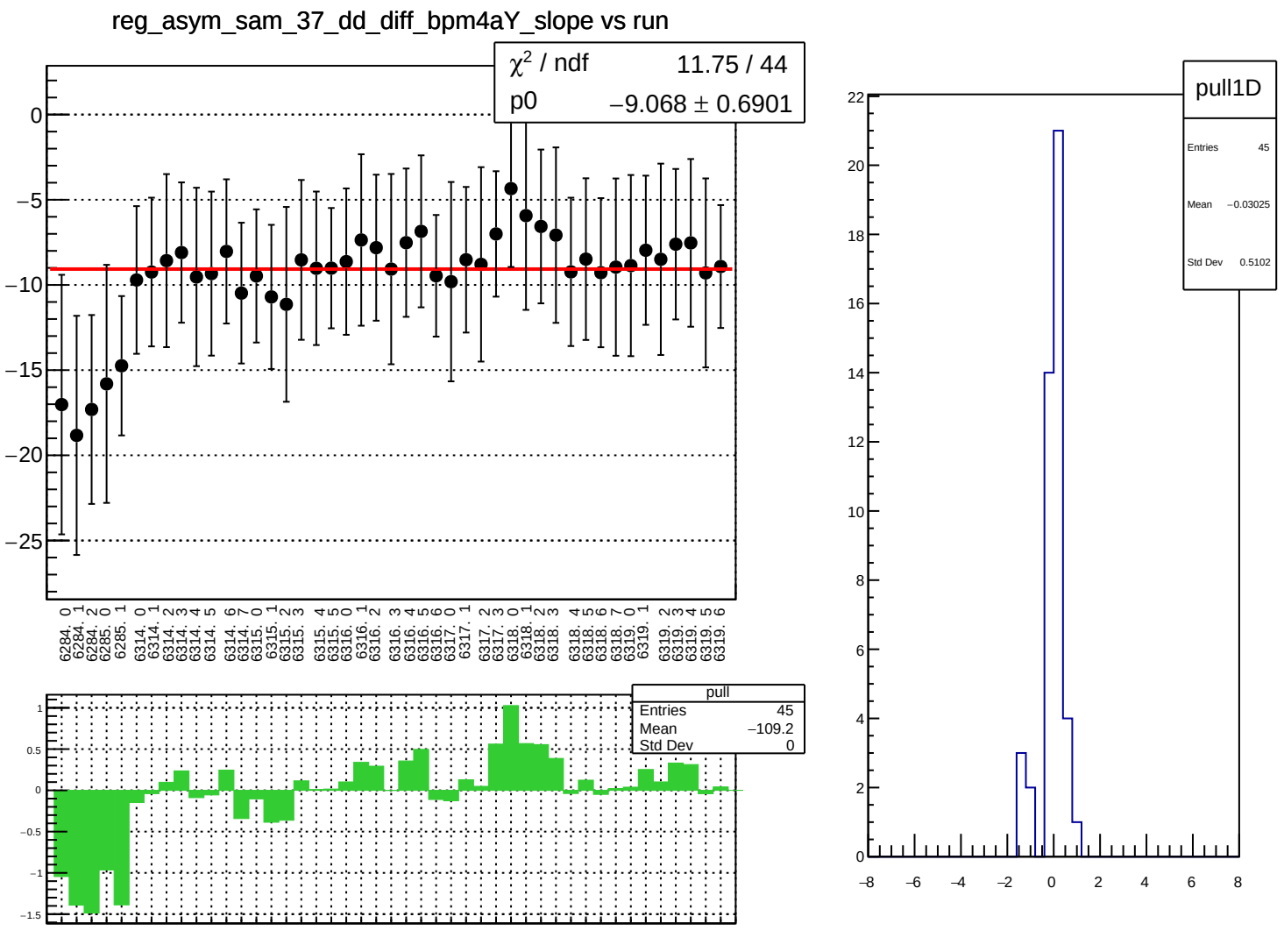

pull1D
Entries 45
Mean 0.03109
Std Dev 0.8485

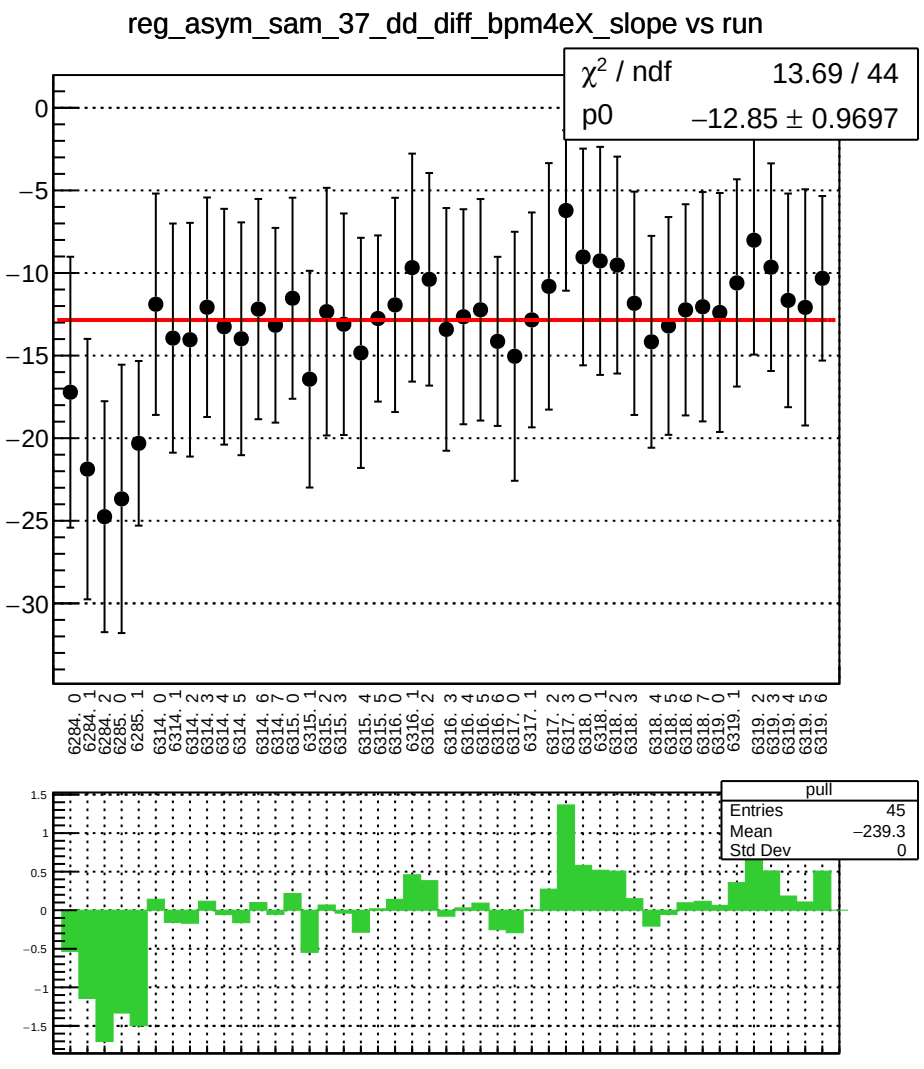

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.5 / 44
p0 −0.1808 ± 0.1268
pull
Entries 45
Mean 53.23
Std Dev 0

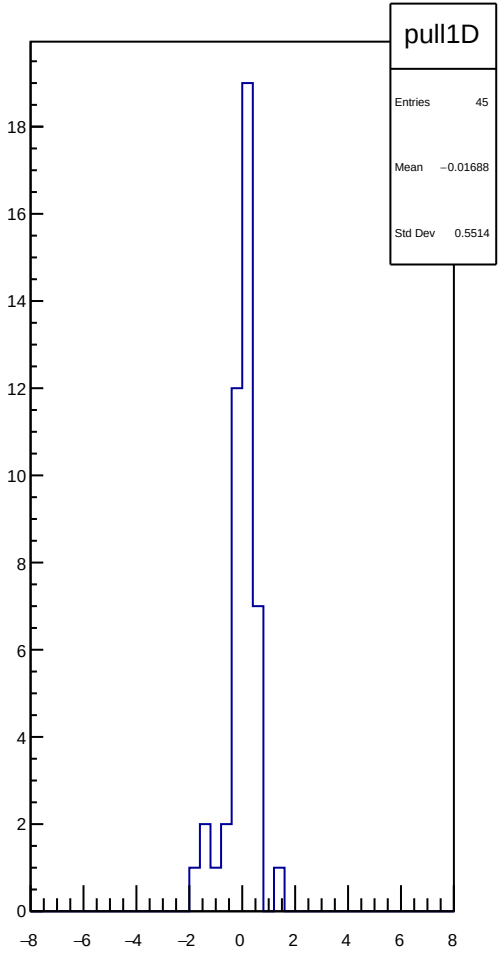

pull1D
Entries 45
Mean 0.003233
Std Dev 0.3162

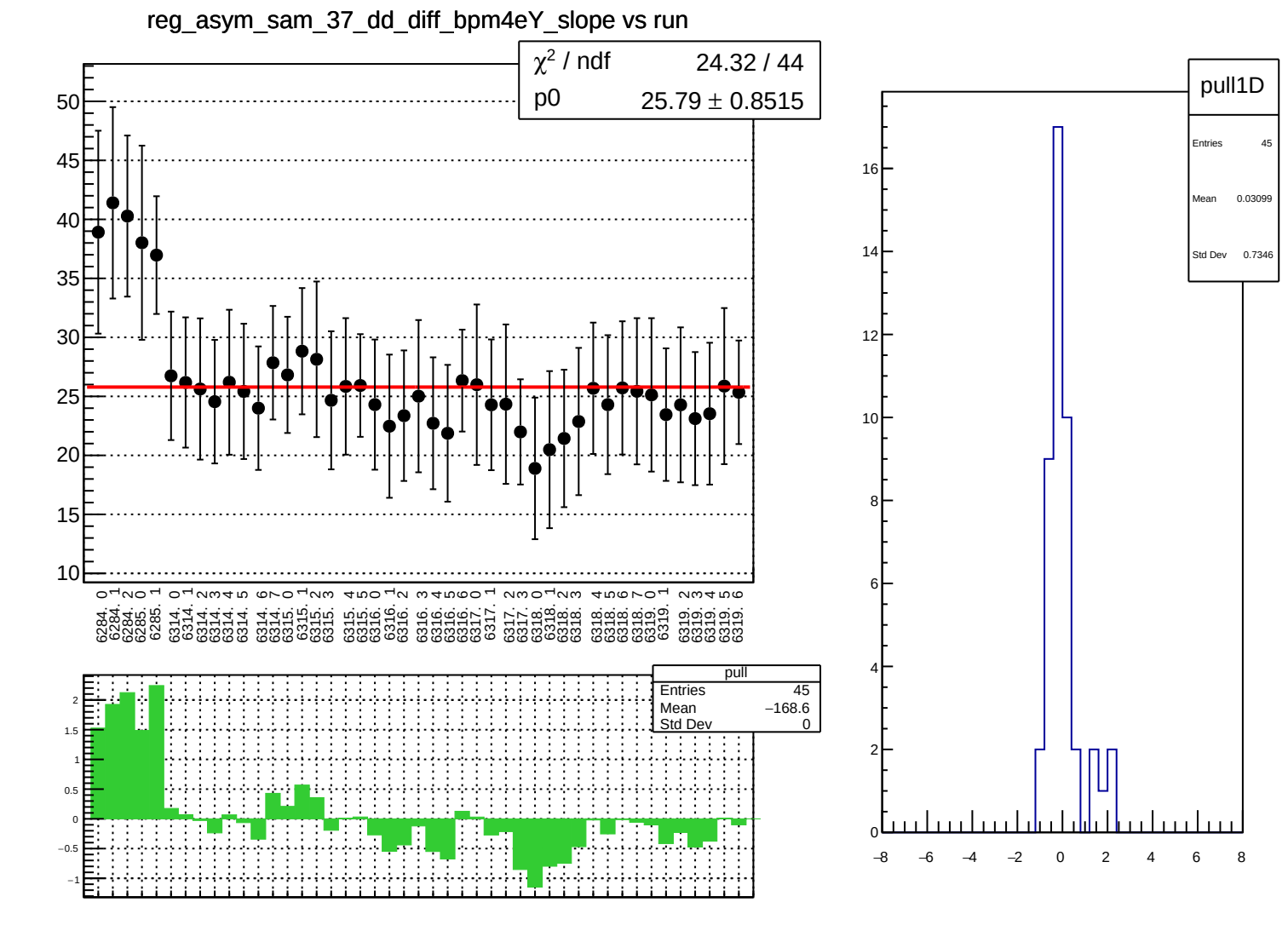

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 14.3 / 44
p0 −29.15 ± 0.9464
pull
Entries 45
Mean −315
Std Dev 0

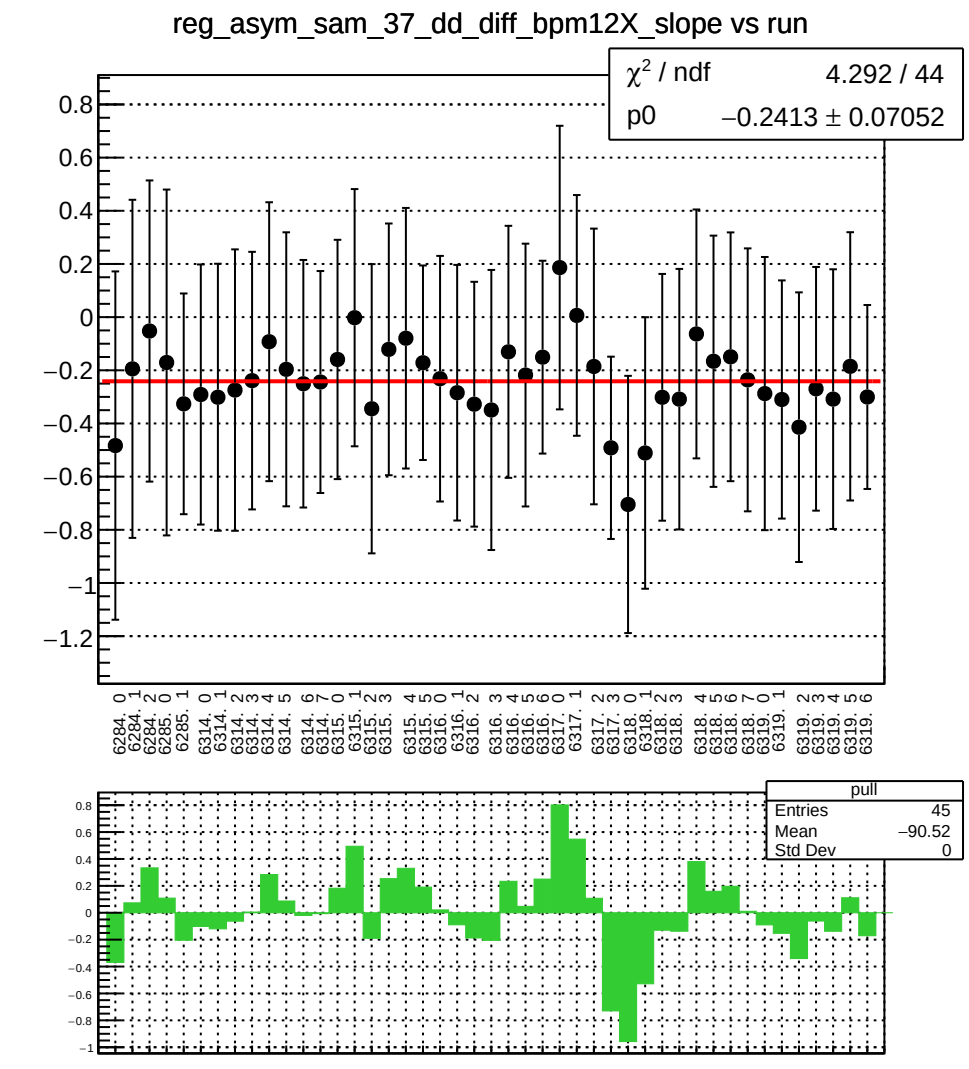

pull1D
Entries 45
Mean 0.01279
Std Dev 0.5636

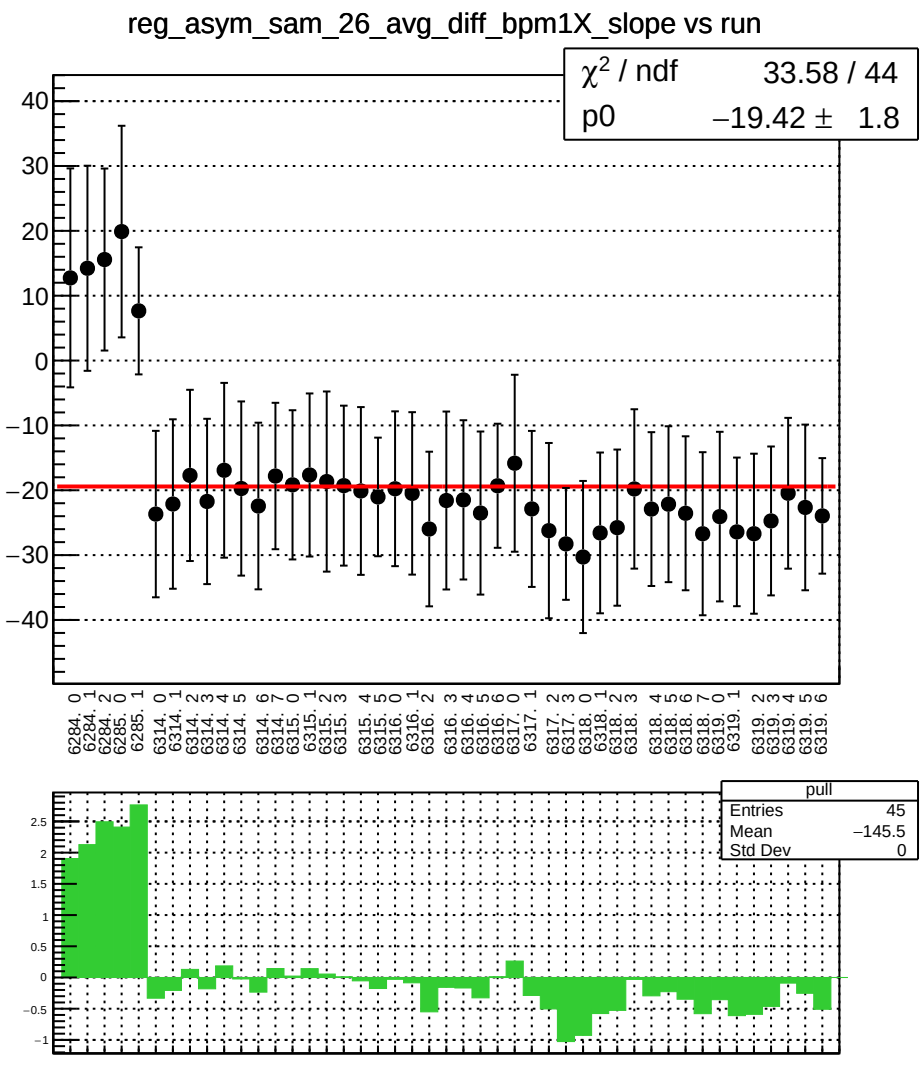

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.75 / 44
p0 −9.068 ± 0.6901
0
−5
−10
−15
−20
−25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −109.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.03025
Std Dev 0.5102
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

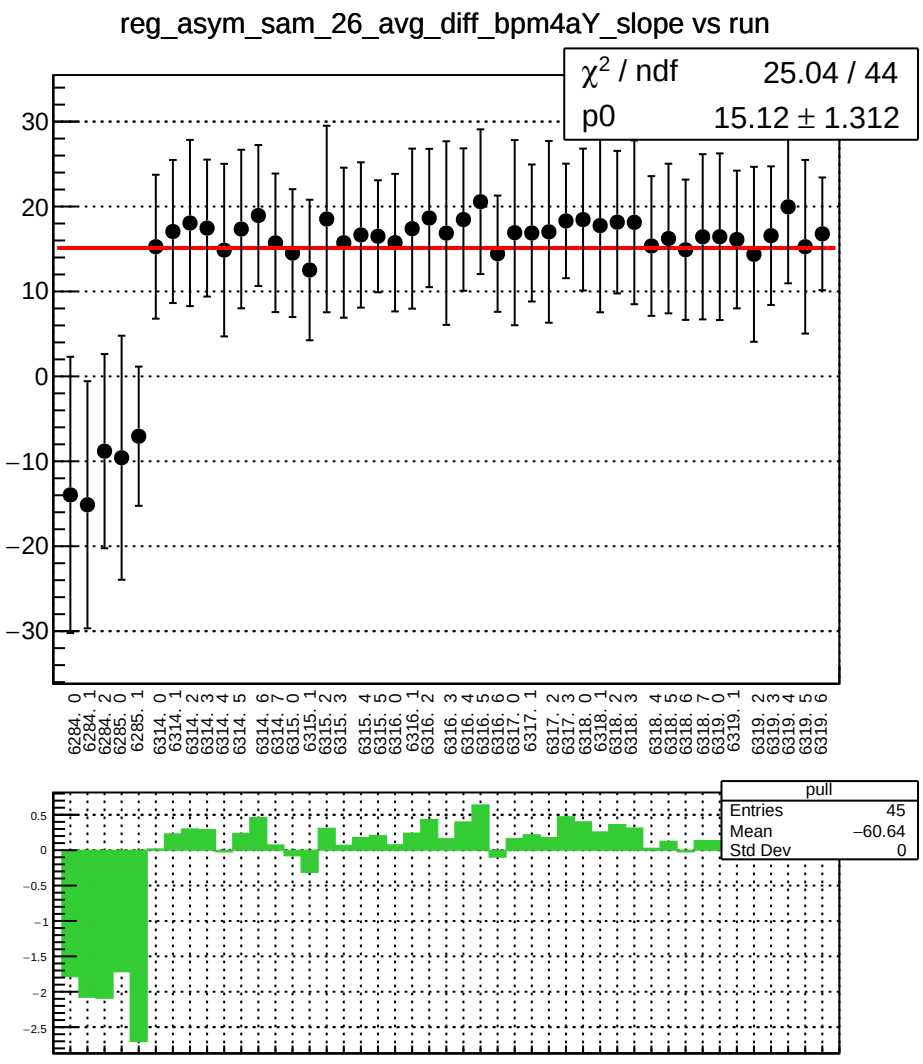

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.69 / 44
p0 −12.85 ± 0.9697
0
−5
−10
−15
−20
−25
−30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −239.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

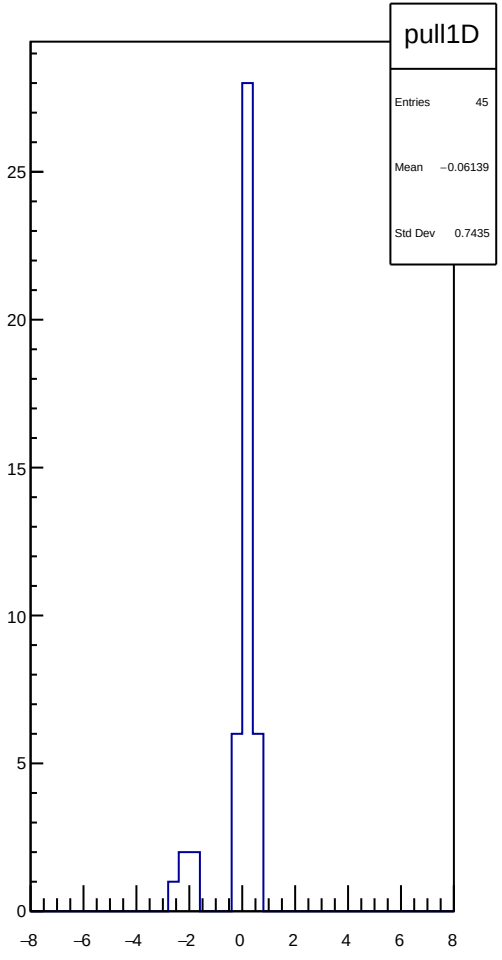

pull1D
Entries 45
Mean −0.01688
Std Dev 0.5514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

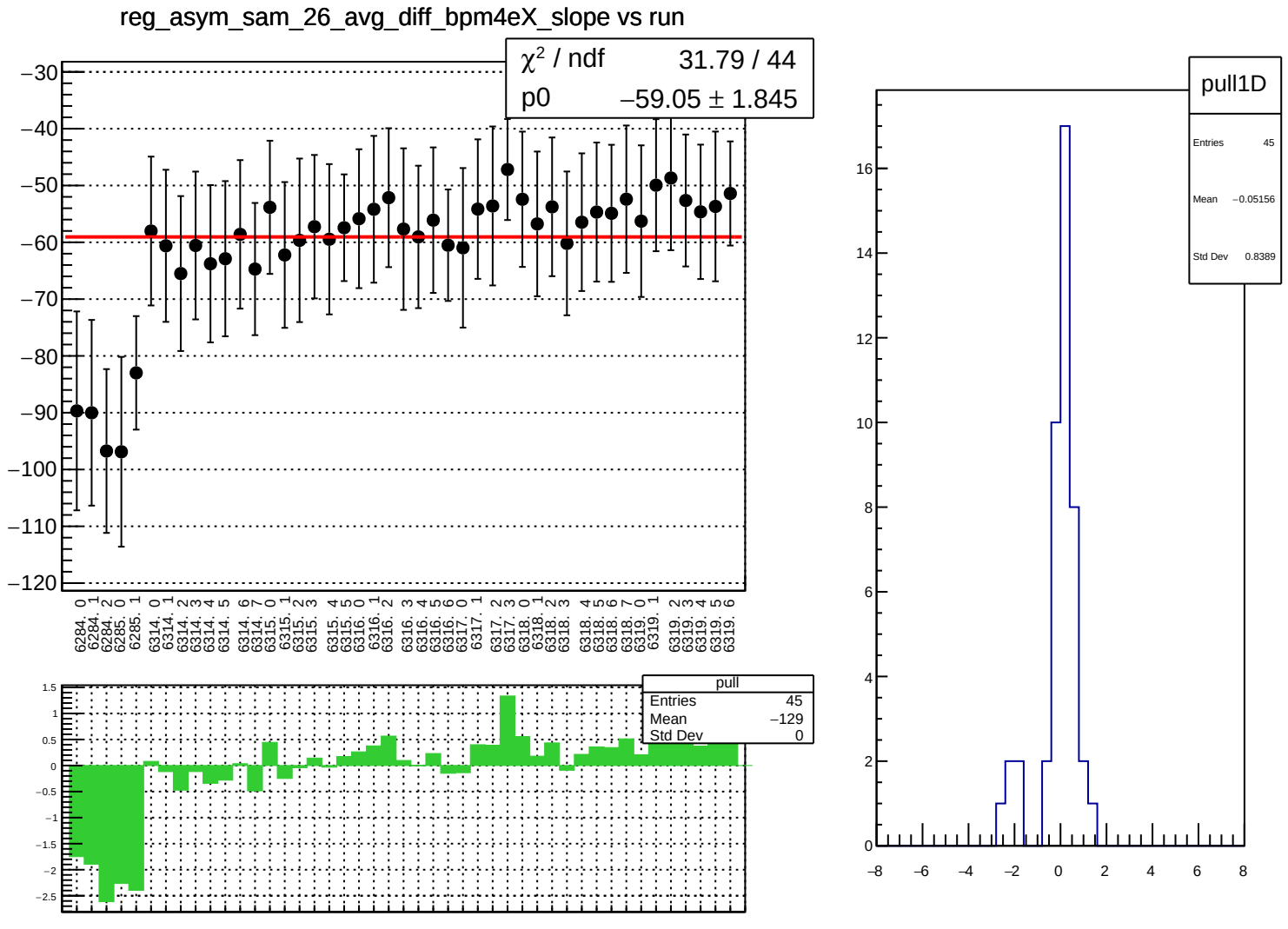

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.32 / 44
p0 25.79 ± 0.8515
pull
Entries 45
Mean −168.6
Std Dev 0
pull1D
Entries 45
Mean 0.03099
Std Dev 0.7346

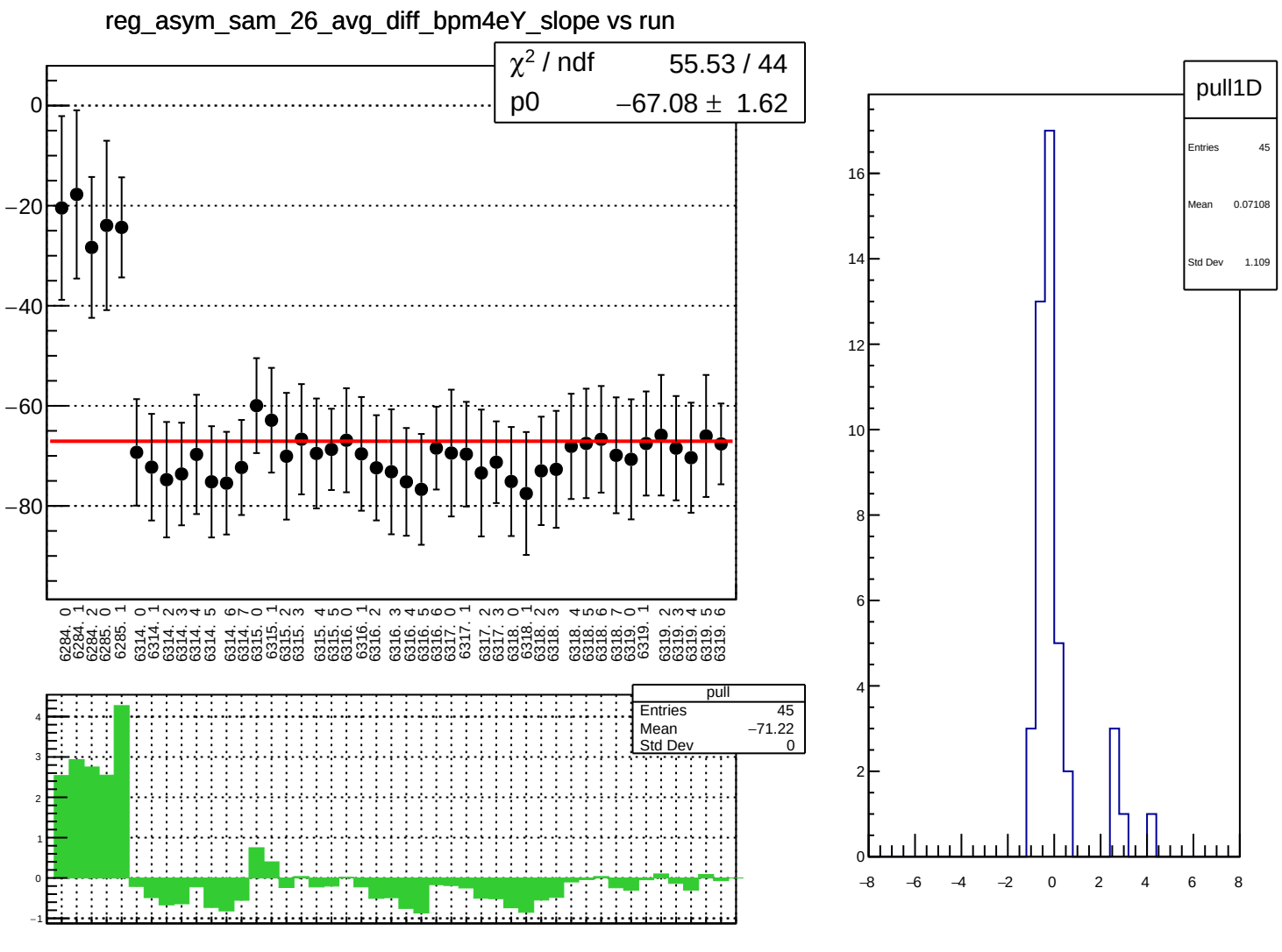

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.292 / 44
p0 −0.2413 ± 0.07052
pull
Entries 45
Mean −90.52
Std Dev 0
pull1D
Entries 45
Mean 0.004905
Std Dev 0.3088

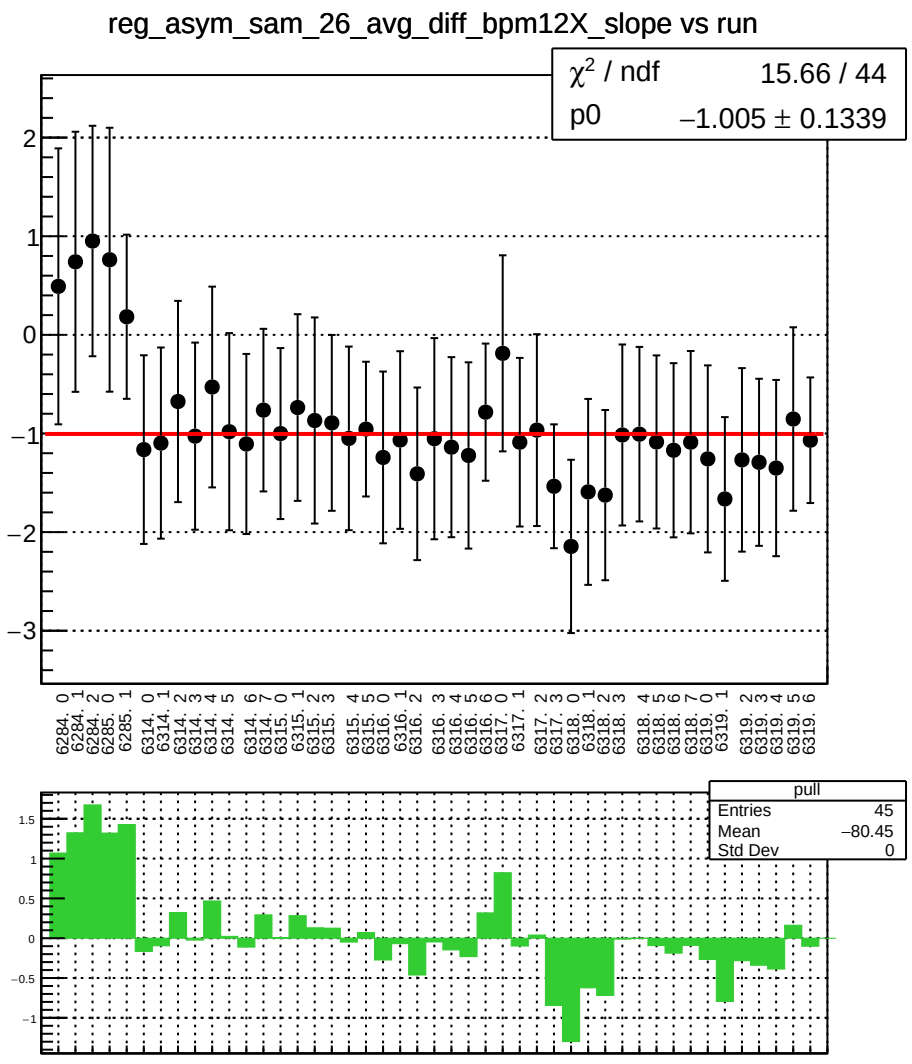

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 33.58 / 44
p0 −19.42 ± 1.8
pull
Entries 45
Mean −145.5
Std Dev 0
pull1D
Entries 45
Mean 0.04325
Std Dev 0.8628

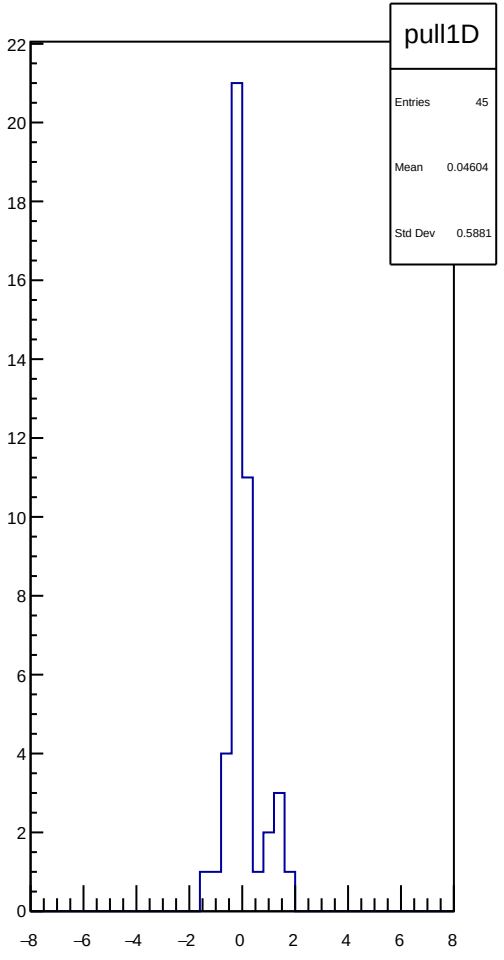

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.04 / 44
p0 15.12 ± 1.312
pull
Entries 45
Mean −60.64
Std Dev 0

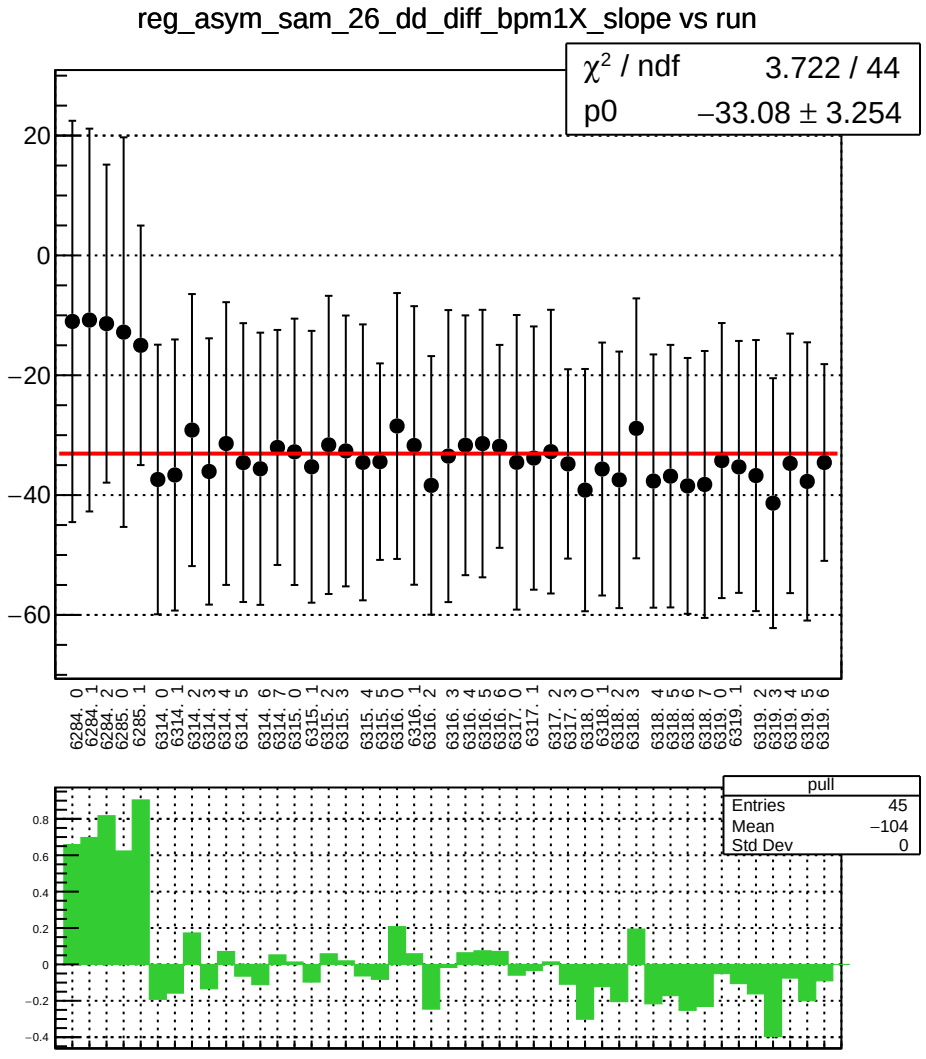

pull1D
Entries 45
Mean −0.06139
Std Dev 0.7435

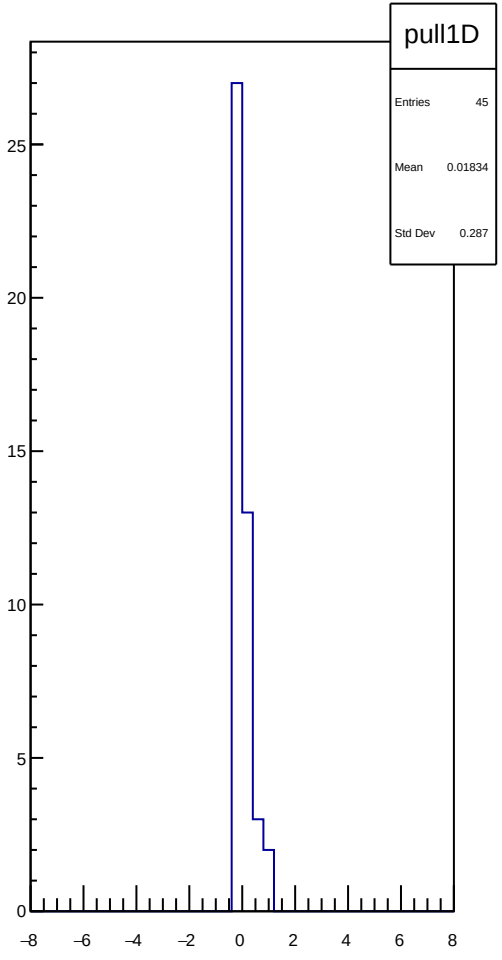

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.79 / 44
p0 −59.05 ± 1.845
pull
Entries 45
Mean −129
Std Dev 0
pull1D
Entries 45
Mean −0.05156
Std Dev 0.8389

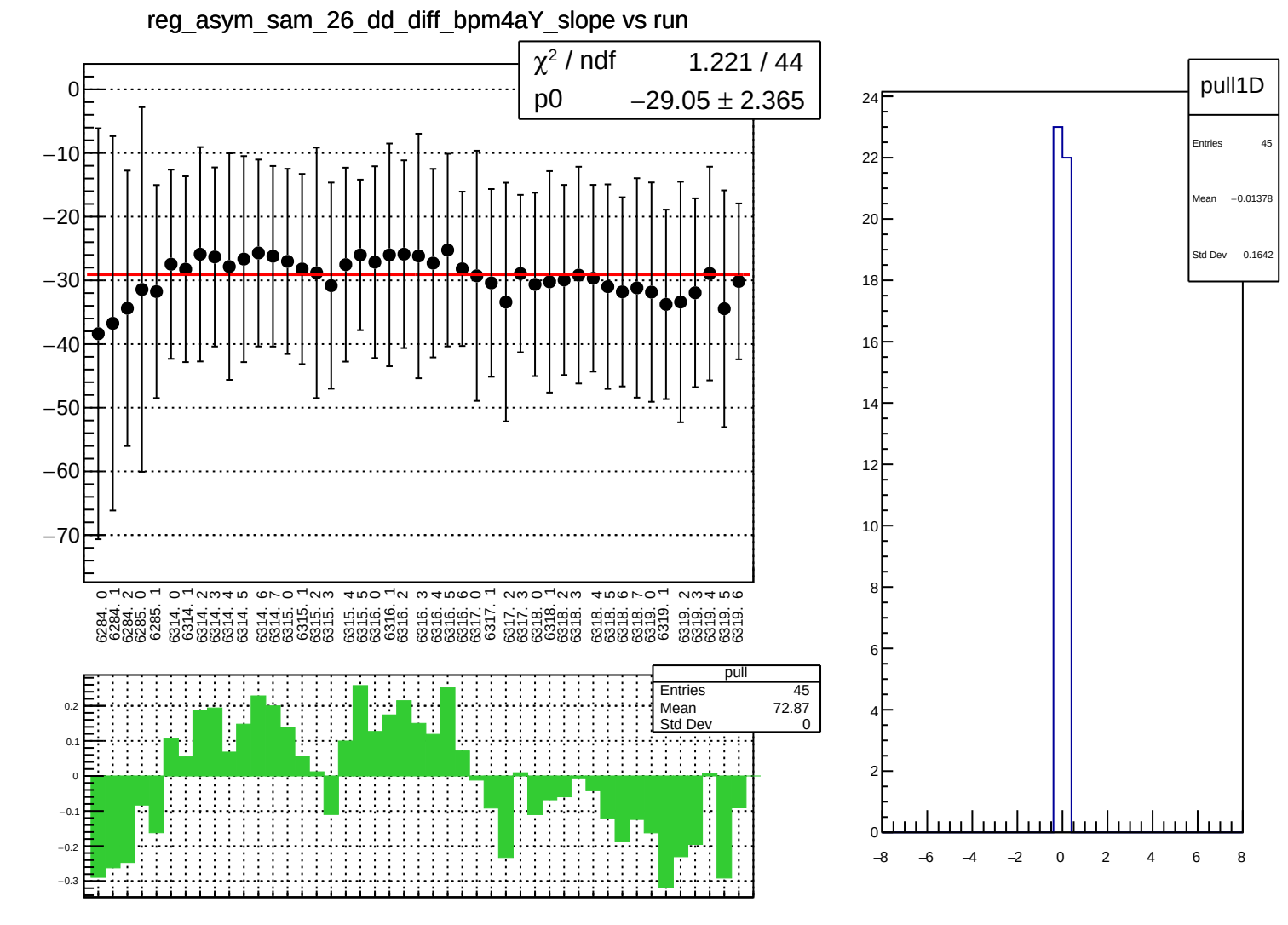

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.53 / 44
p0 −67.08 ± 1.62
0
−20
−40
−60
−80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −71.22
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 45
Mean 0.07108
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

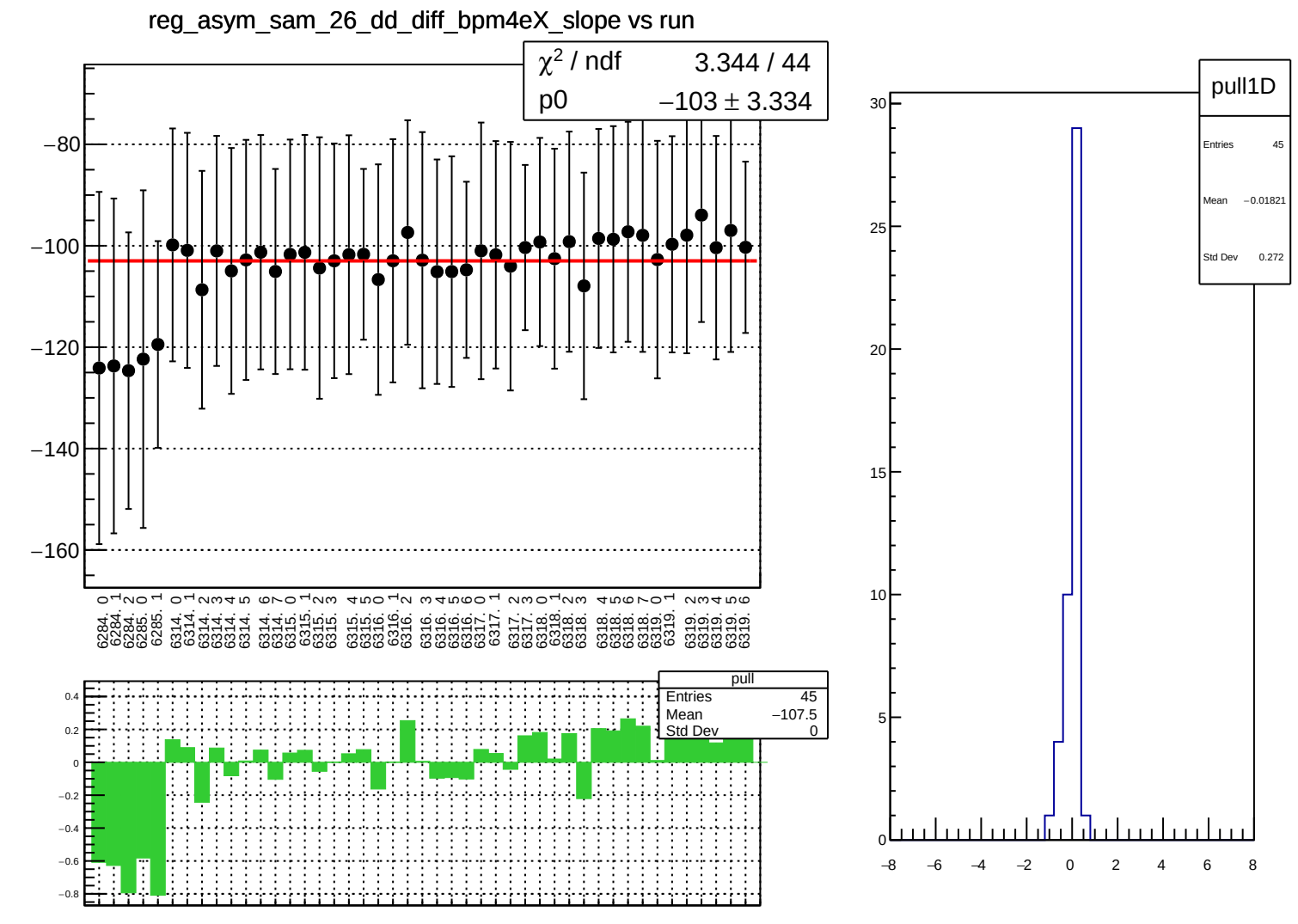

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.66 / 44
p0 −1.005 ± 0.1339
pull
Entries 45
Mean −80.45
Std Dev 0

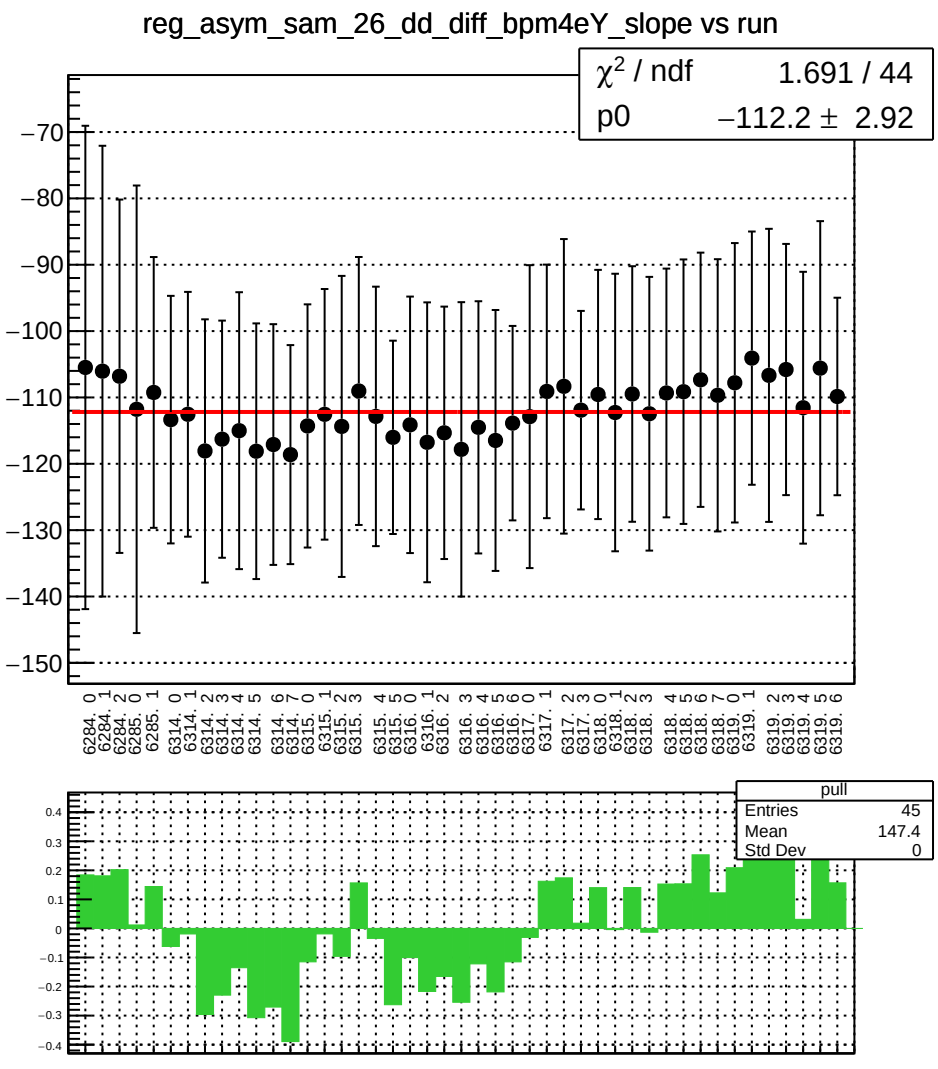

pull1D
Entries 45
Mean 0.04604
Std Dev 0.5881

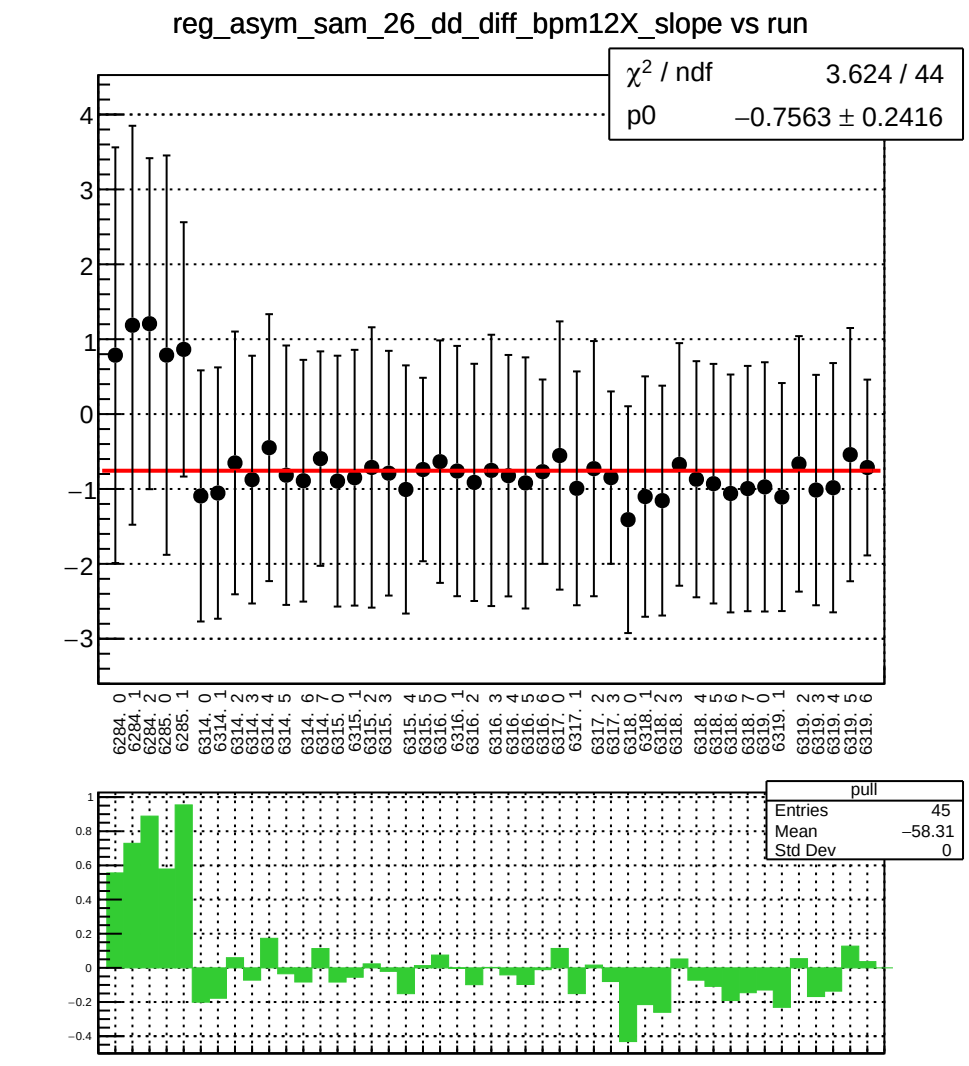

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.722 / 44
p0 −33.08 ± 3.254
pull
Entries 45
Mean −104
Std Dev 0

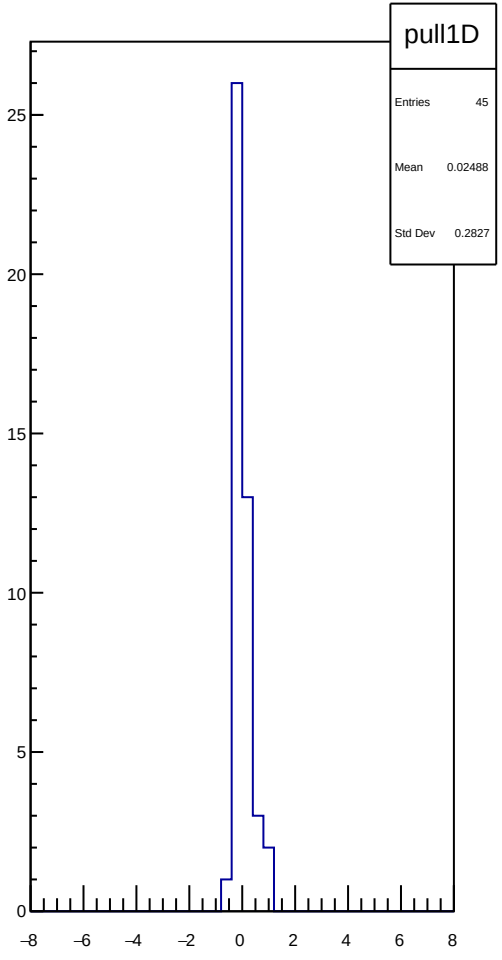

pull1D
Entries 45
Mean 0.01834
Std Dev 0.287

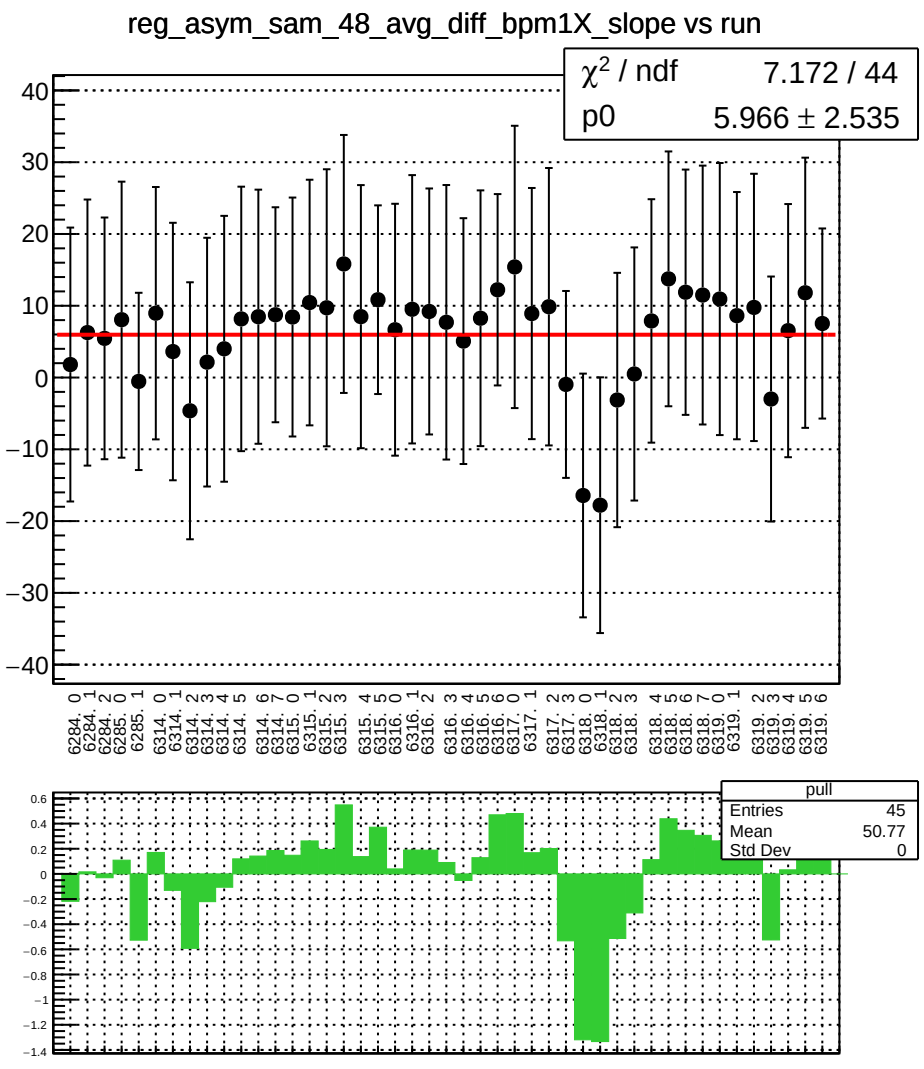

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.221 / 44
p0 −29.05 ± 2.365
pull
Entries 45
Mean 72.87
Std Dev 0
pull1D
Entries 45
Mean −0.01378
Std Dev 0.1642

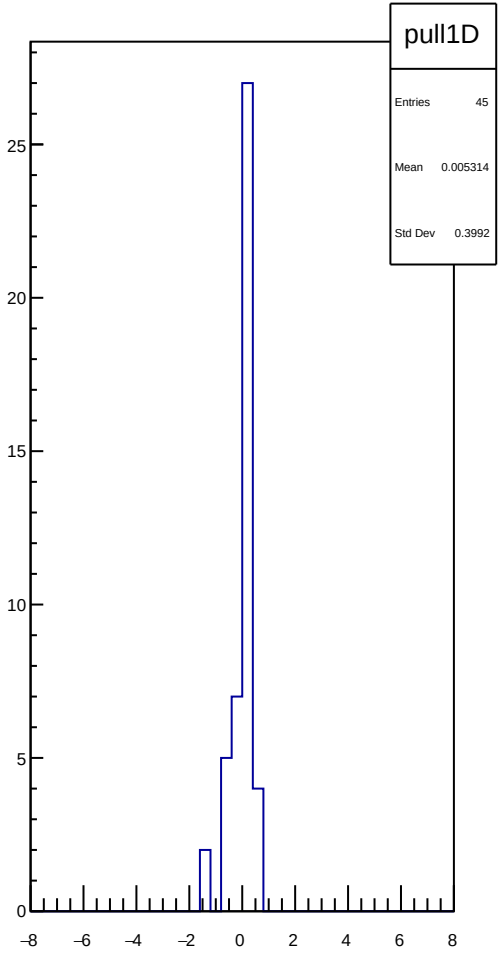

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.344 / 44
p0 −103 ± 3.334
−80
−100
−120
−140
−160
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −107.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.01821
Std Dev 0.272
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

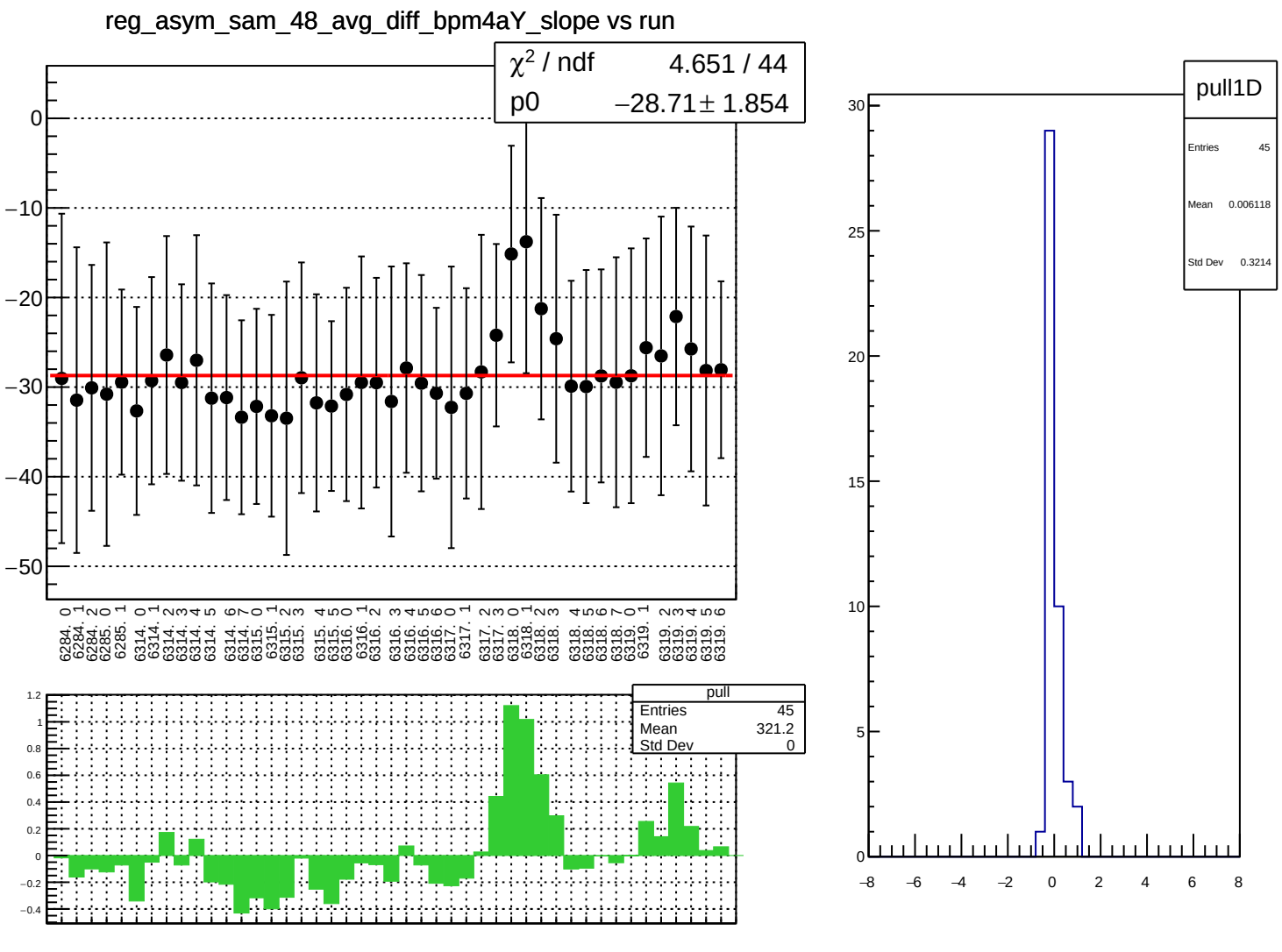

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.691 / 44
p0 −112.2 ± 2.92
pull
Entries 45
Mean 147.4
Std Dev 0
pull1D
Entries 45
Mean 0.009604
Std Dev 0.1936

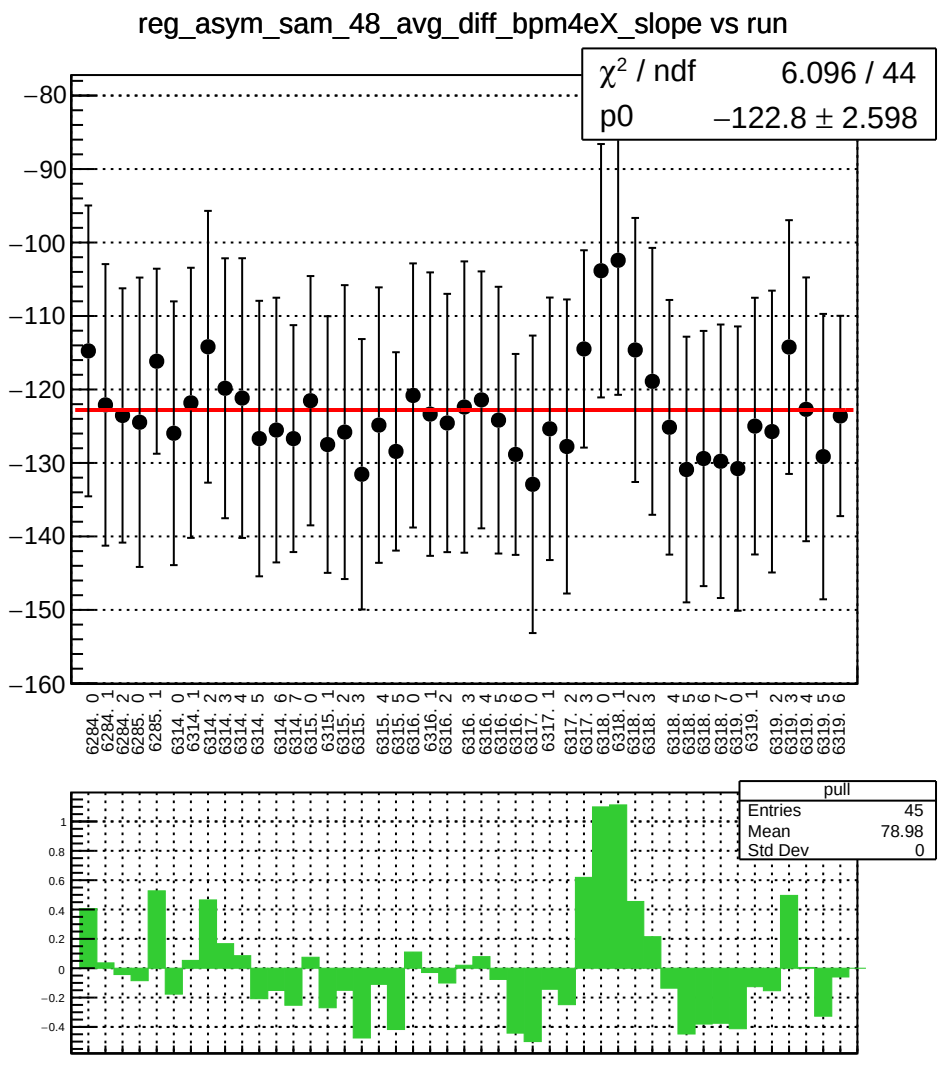

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.624 / 44
p0 −0.7563 ± 0.2416
pull
Entries 45
Mean −58.31
Std Dev 0

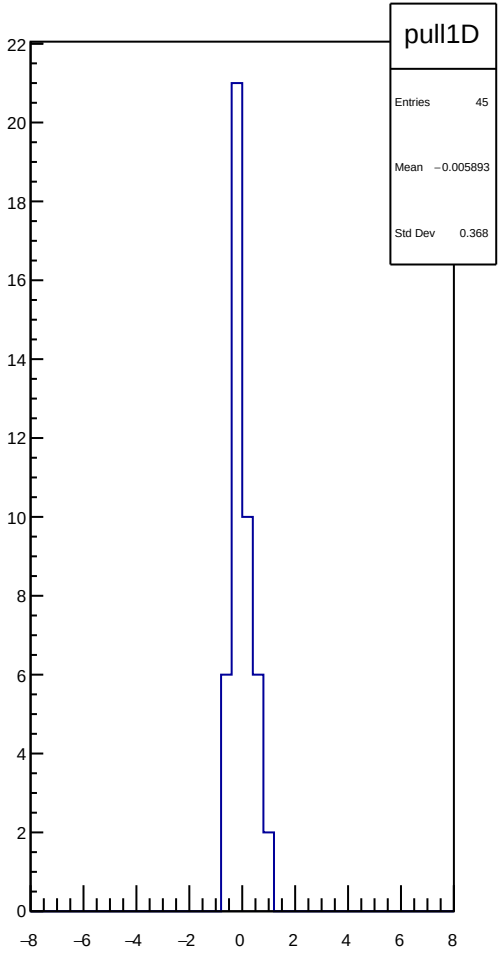

pull1D
Entries 45
Mean 0.02488
Std Dev 0.2827

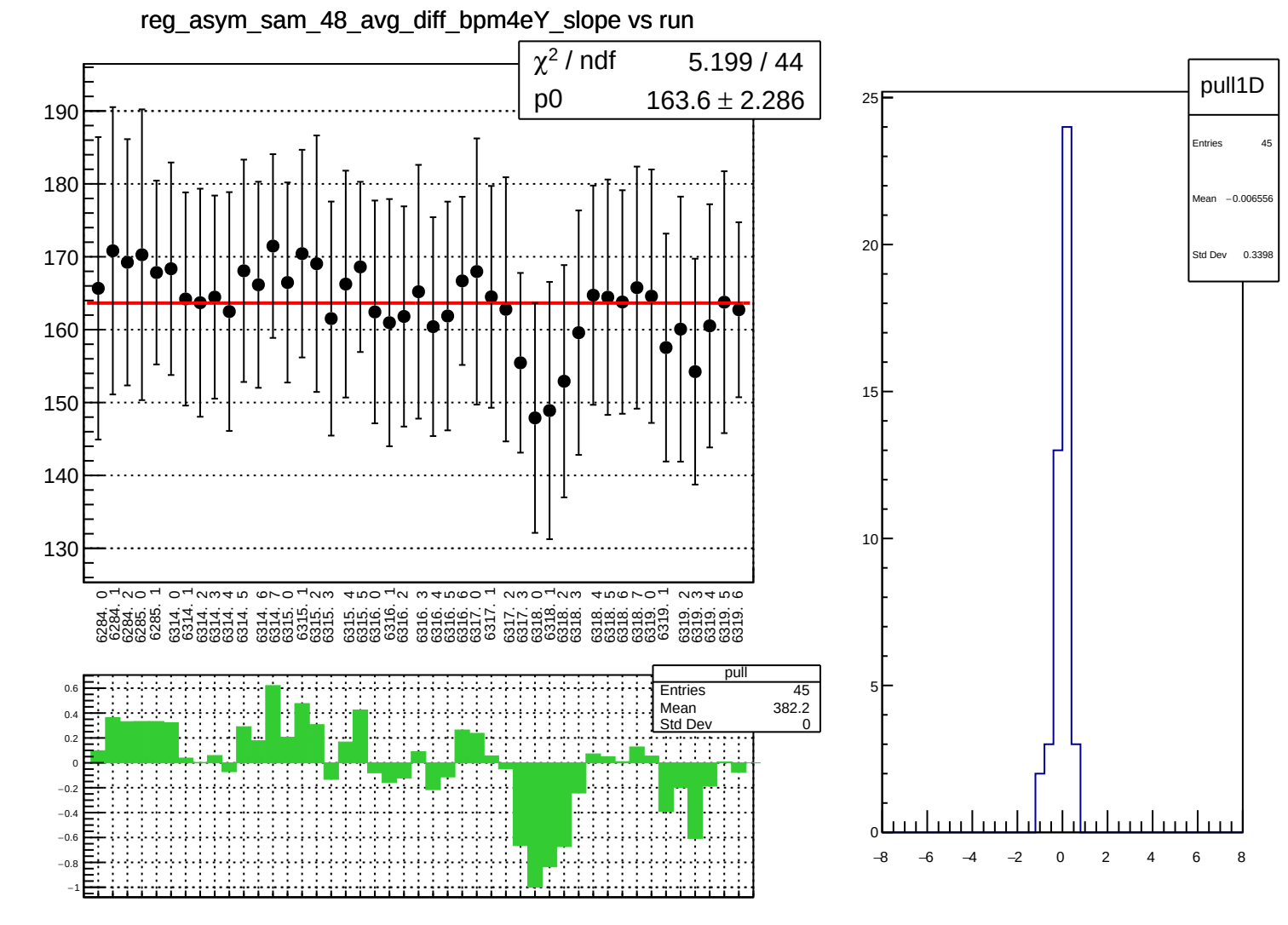

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 7.172 / 44
p0 5.966 ± 2.535
pull
Entries 45
Mean 50.77
Std Dev 0

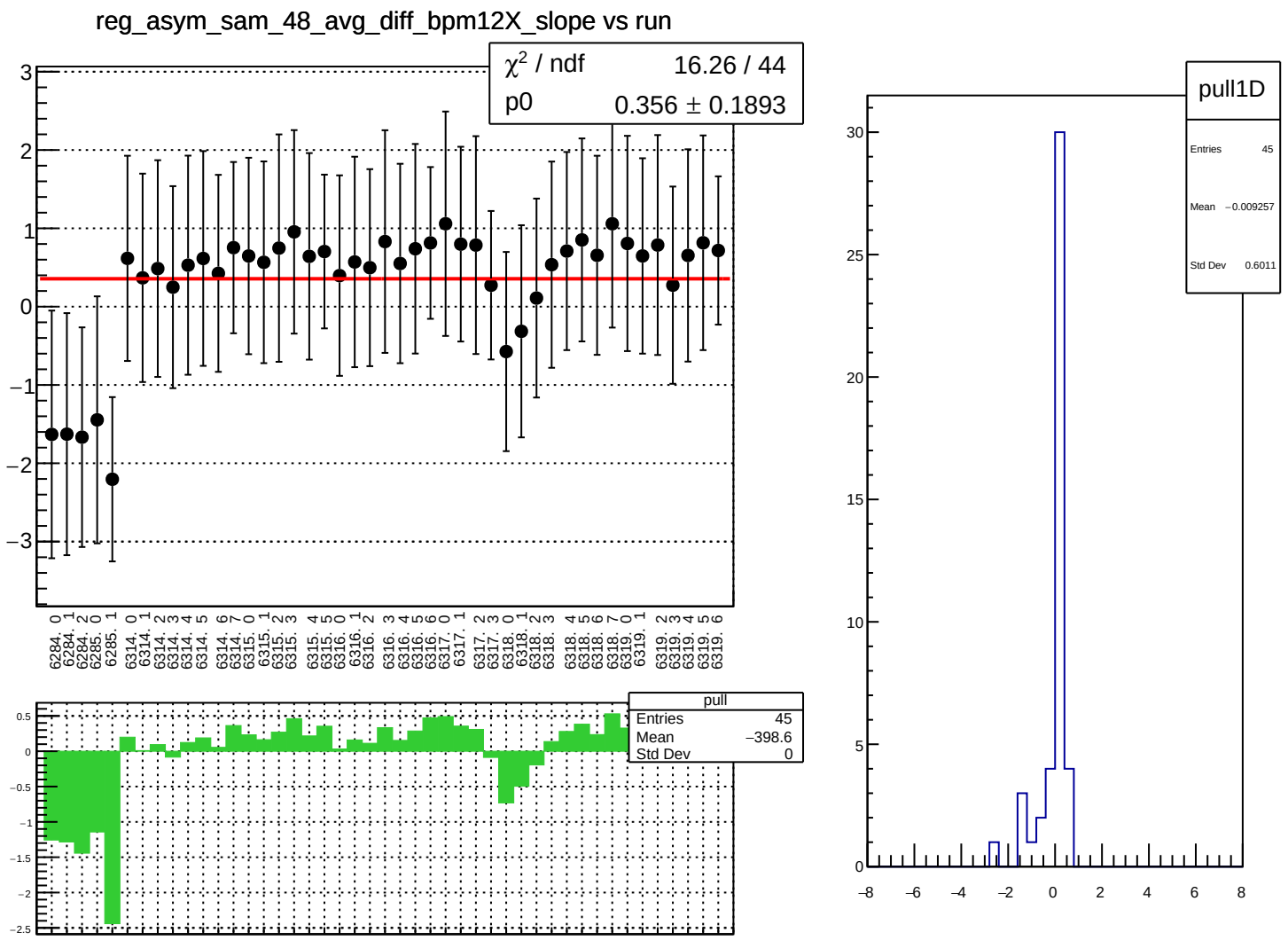

pull1D
Entries 45
Mean 0.005314
Std Dev 0.3992

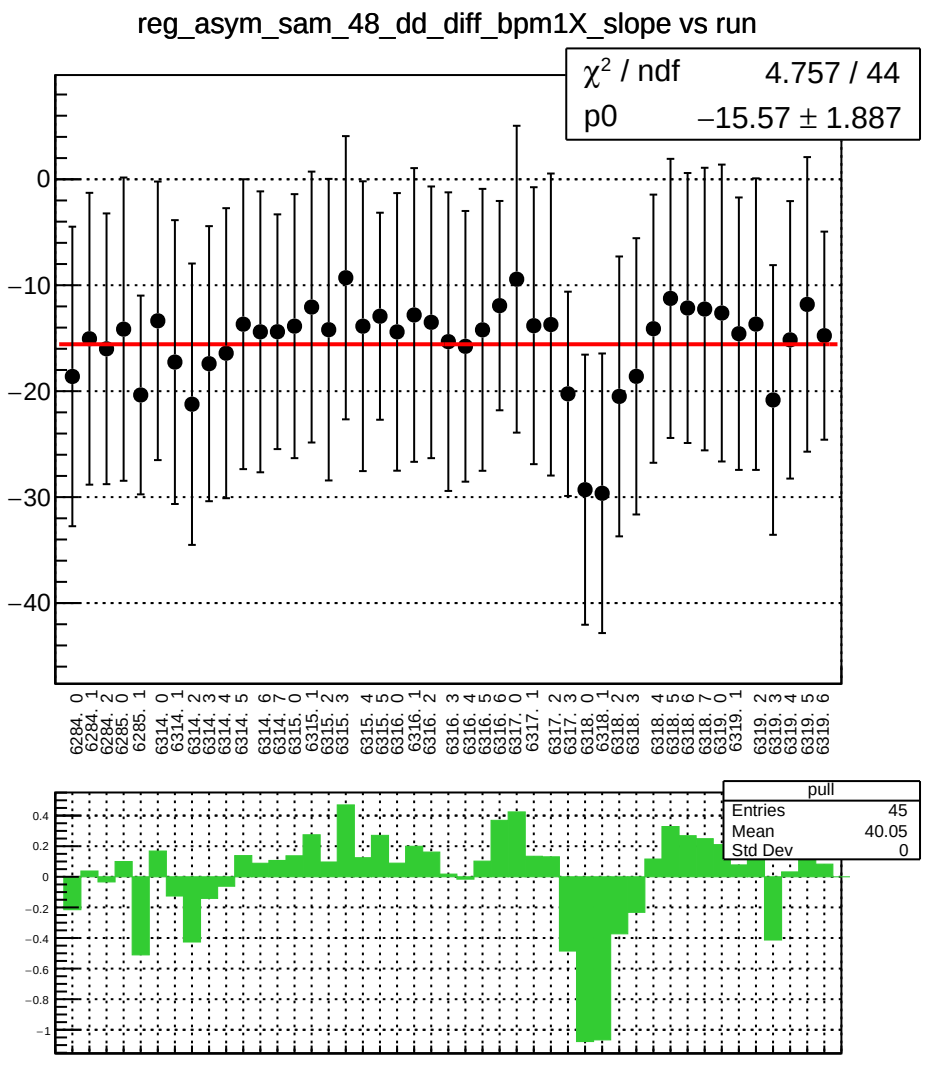

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.651 / 44
p0 −28.71± 1.854
pull
Entries 45
Mean 321.2
Std Dev 0
pull1D
Entries 45
Mean 0.006118
Std Dev 0.3214

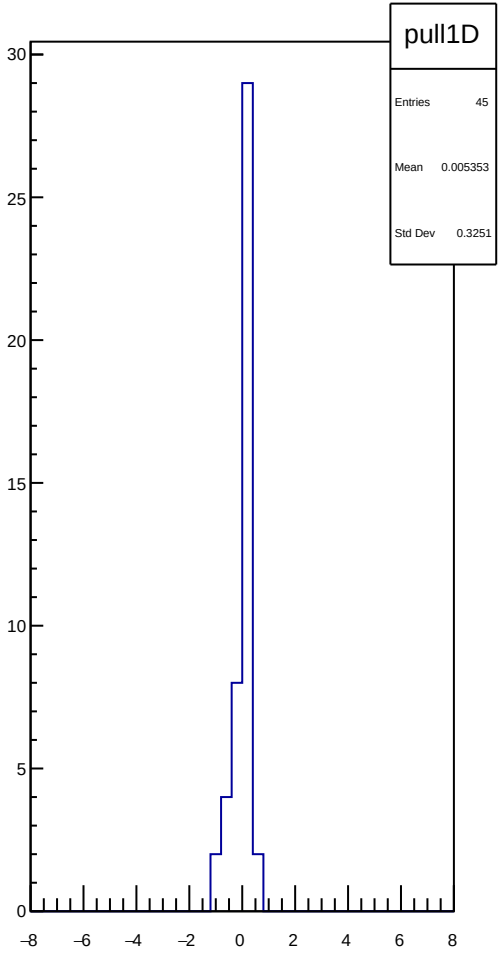

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.096 / 44
p0 −122.8 ± 2.598
pull
Entries 45
Mean 78.98
Std Dev 0

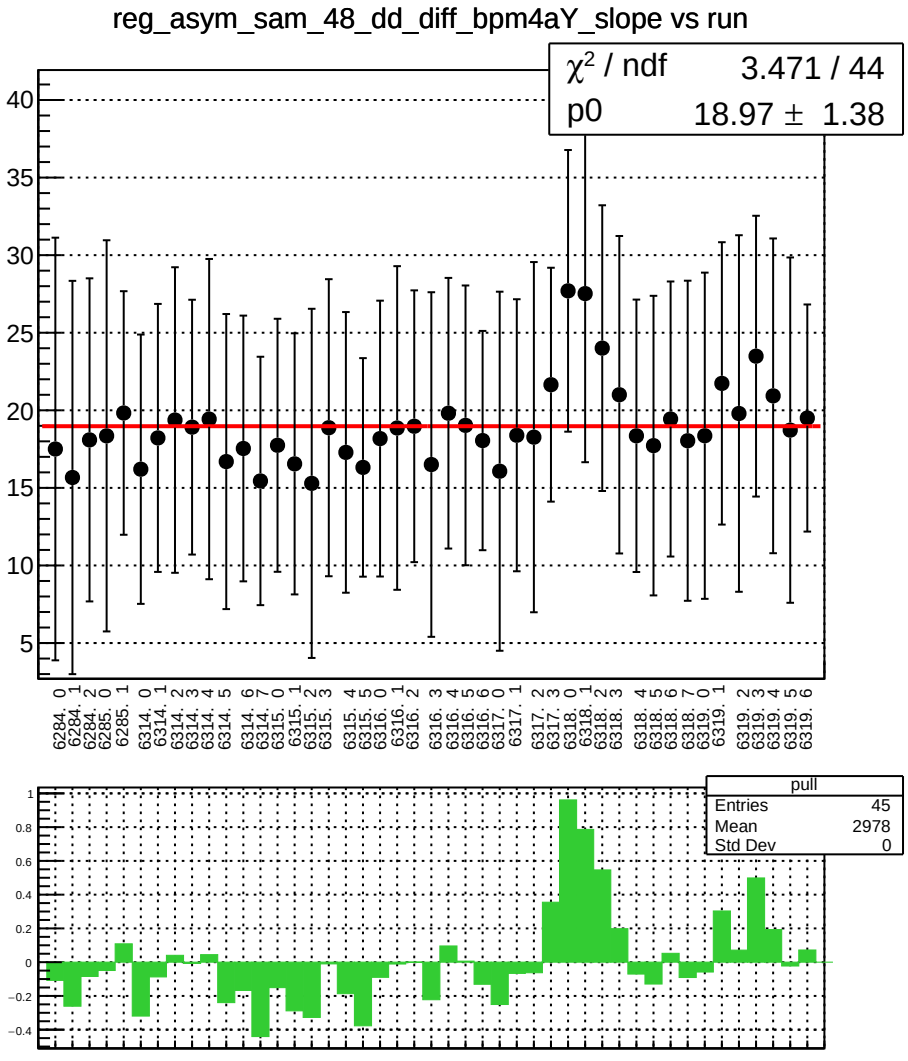

pull1D
Entries 45
Mean −0.005893
Std Dev 0.368

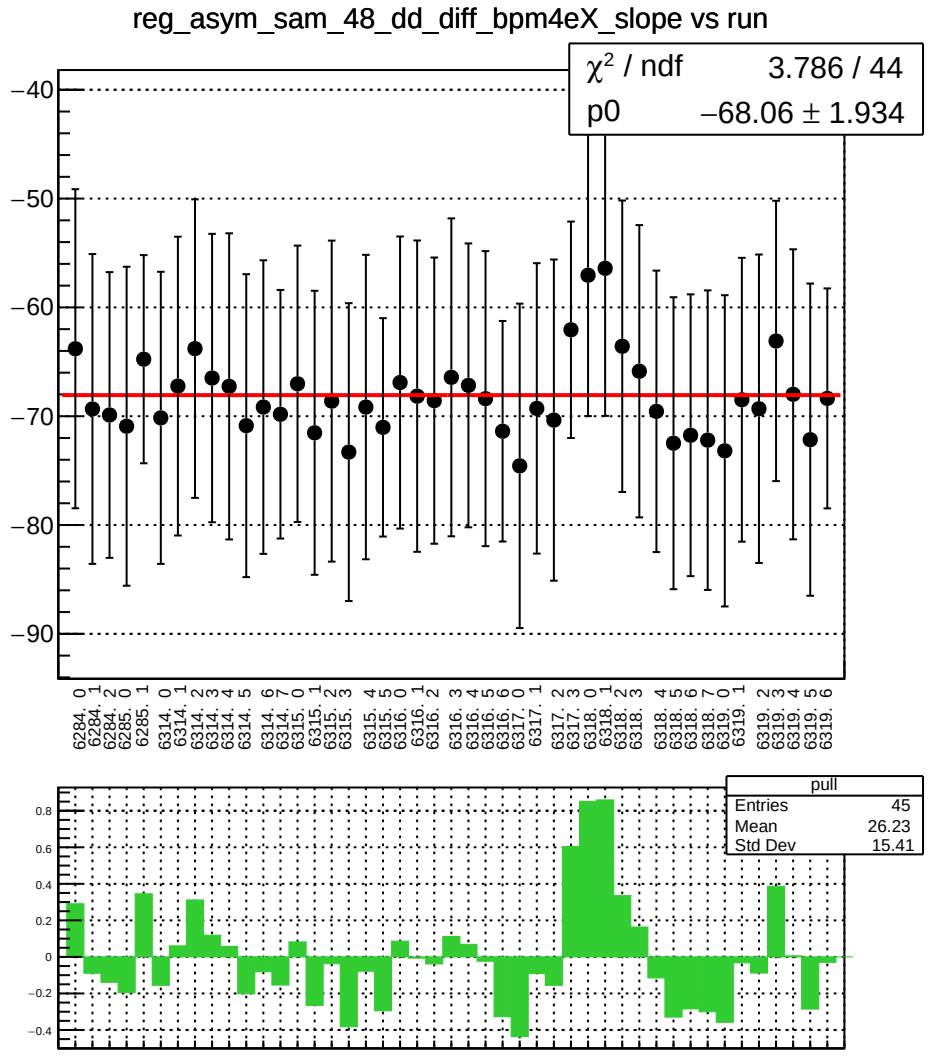

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.199 / 44
p0 163.6 ± 2.286
190
180
170
160
150
140
130
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 382.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.006556
Std Dev 0.3398
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

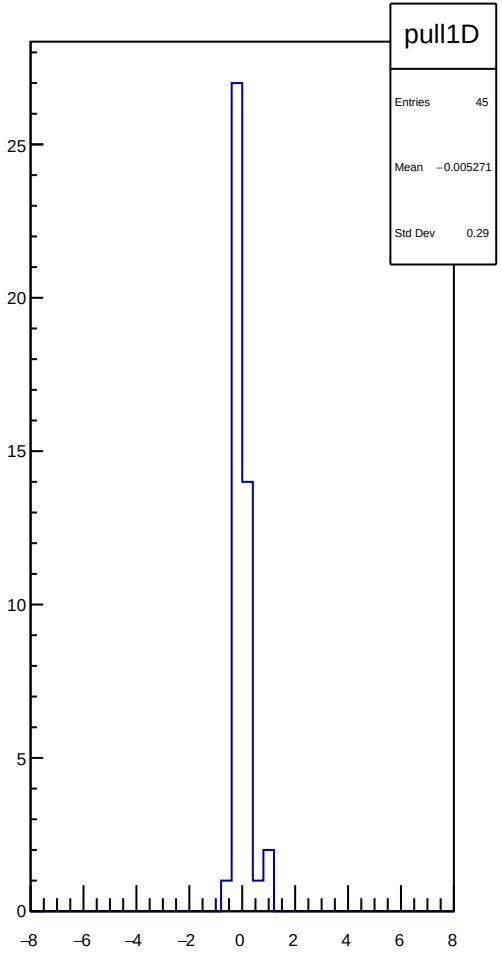

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 16.26 / 44
p0 0.356 ± 0.1893
pull
Entries 45
Mean −398.6
Std Dev 0
pull1D
Entries 45
Mean −0.009257
Std Dev 0.6011

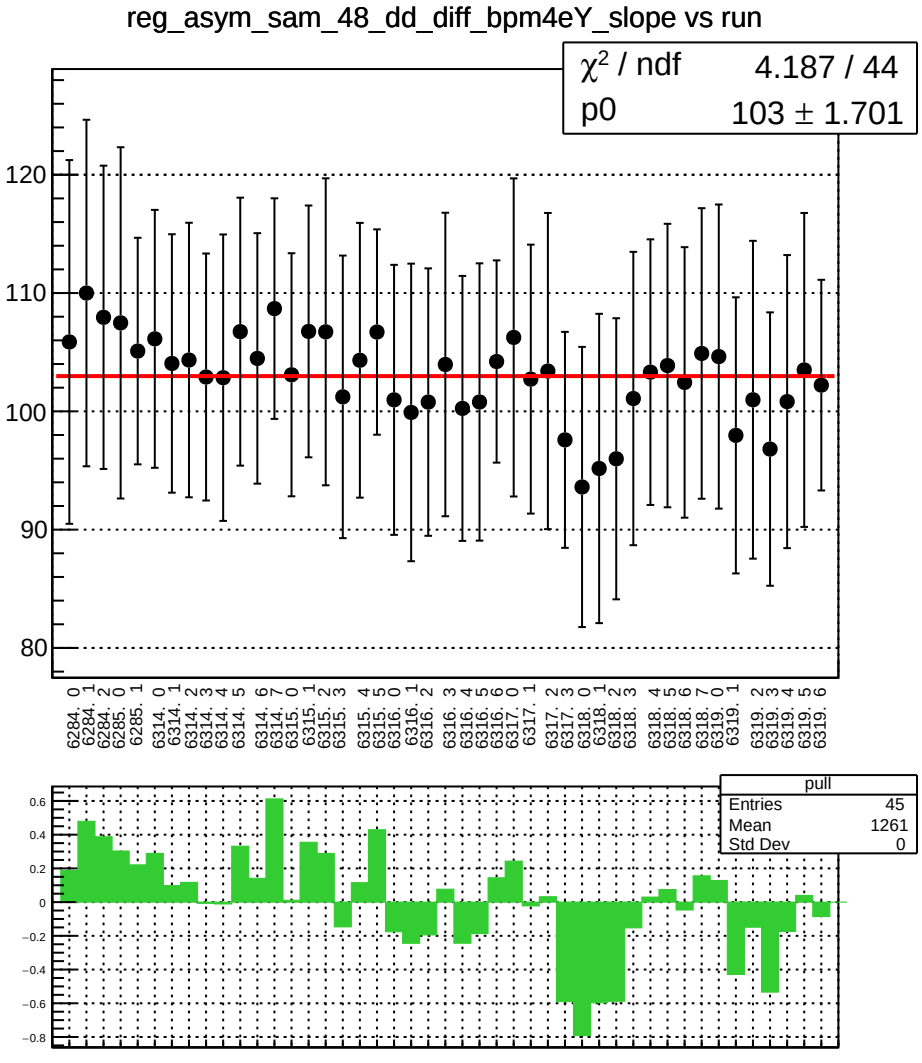

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.757 / 44
p0 −15.57 ± 1.887
0
−10
−20
−30
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 40.05
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

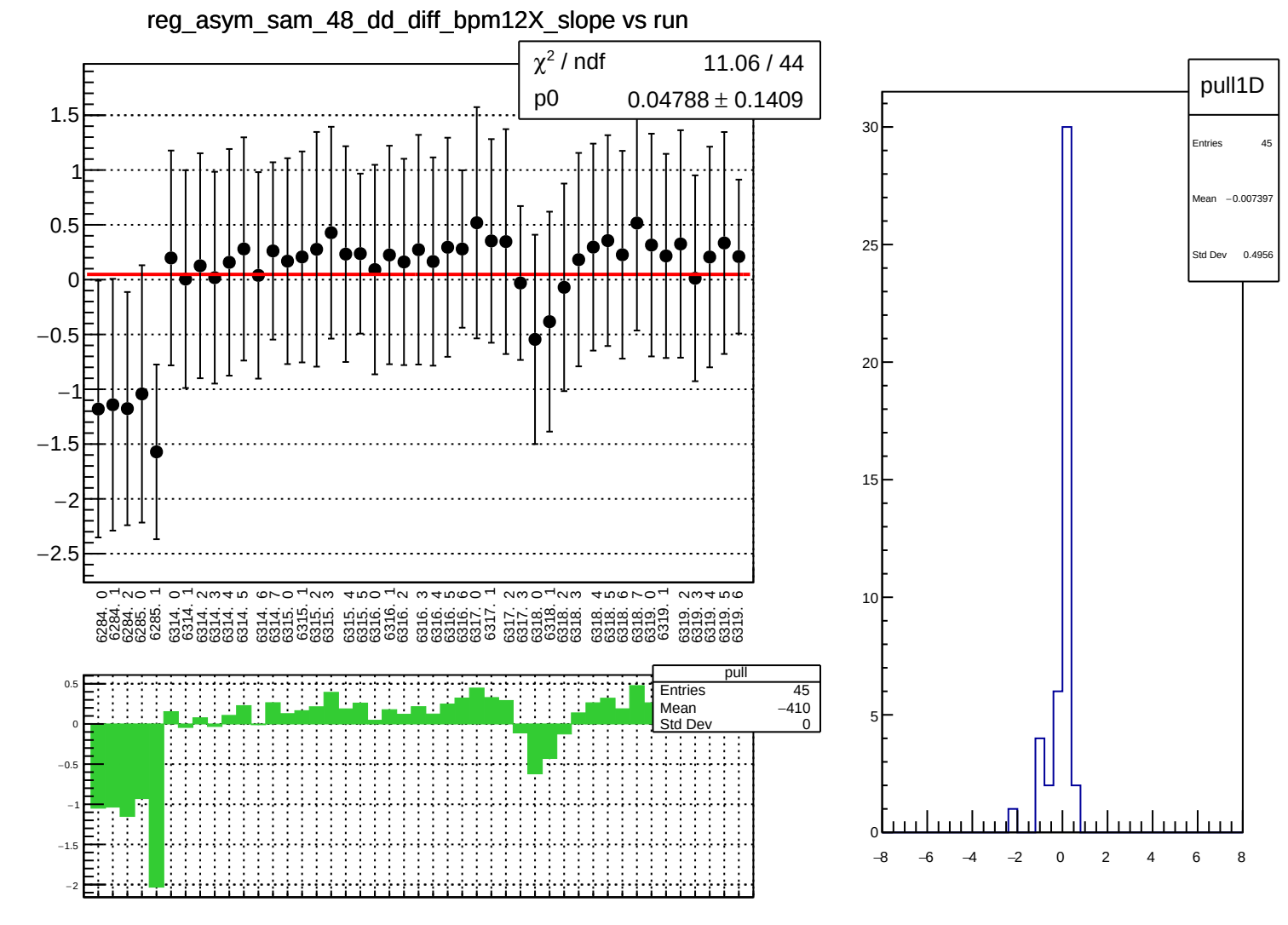

pull1D
Entries 45
Mean 0.005353
Std Dev 0.3251
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

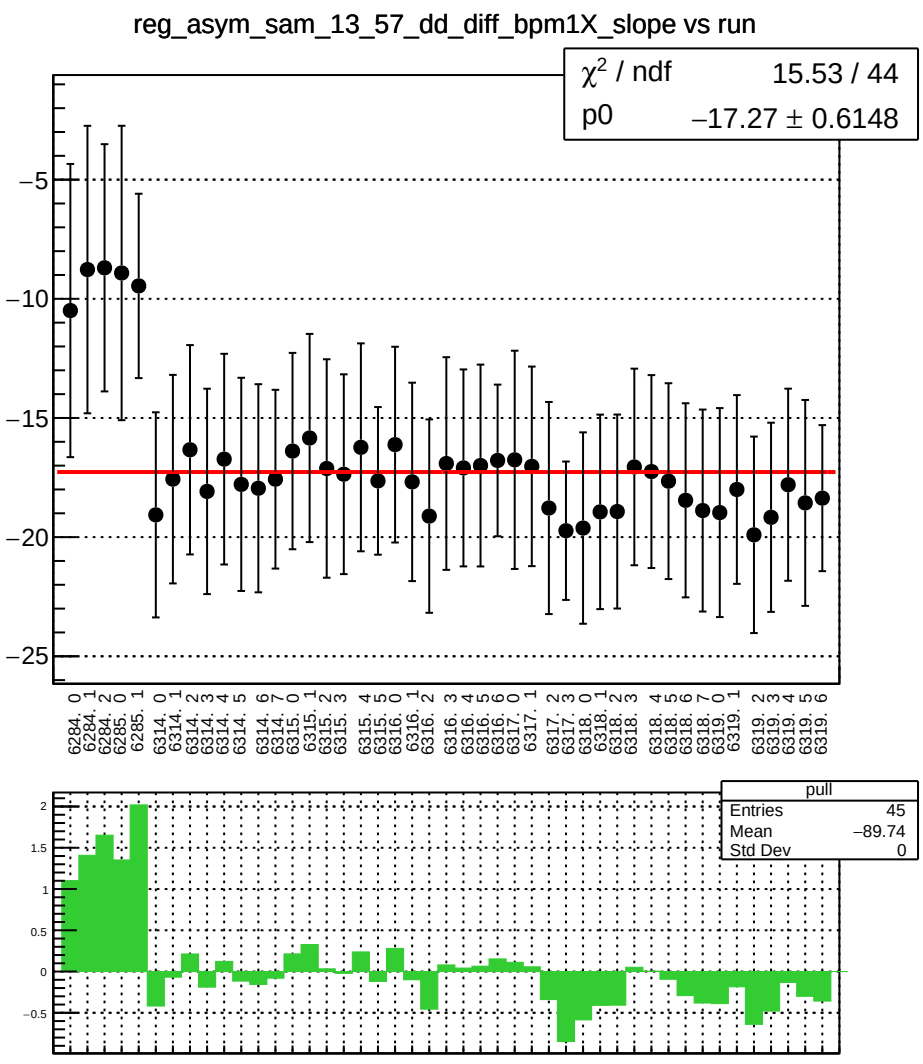

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.471 / 44
p0 18.97 ± 1.38
pull
Entries 45
Mean 2978
Std Dev 0
pull1D
Entries 45
Mean 0.0005401
Std Dev 0.2777

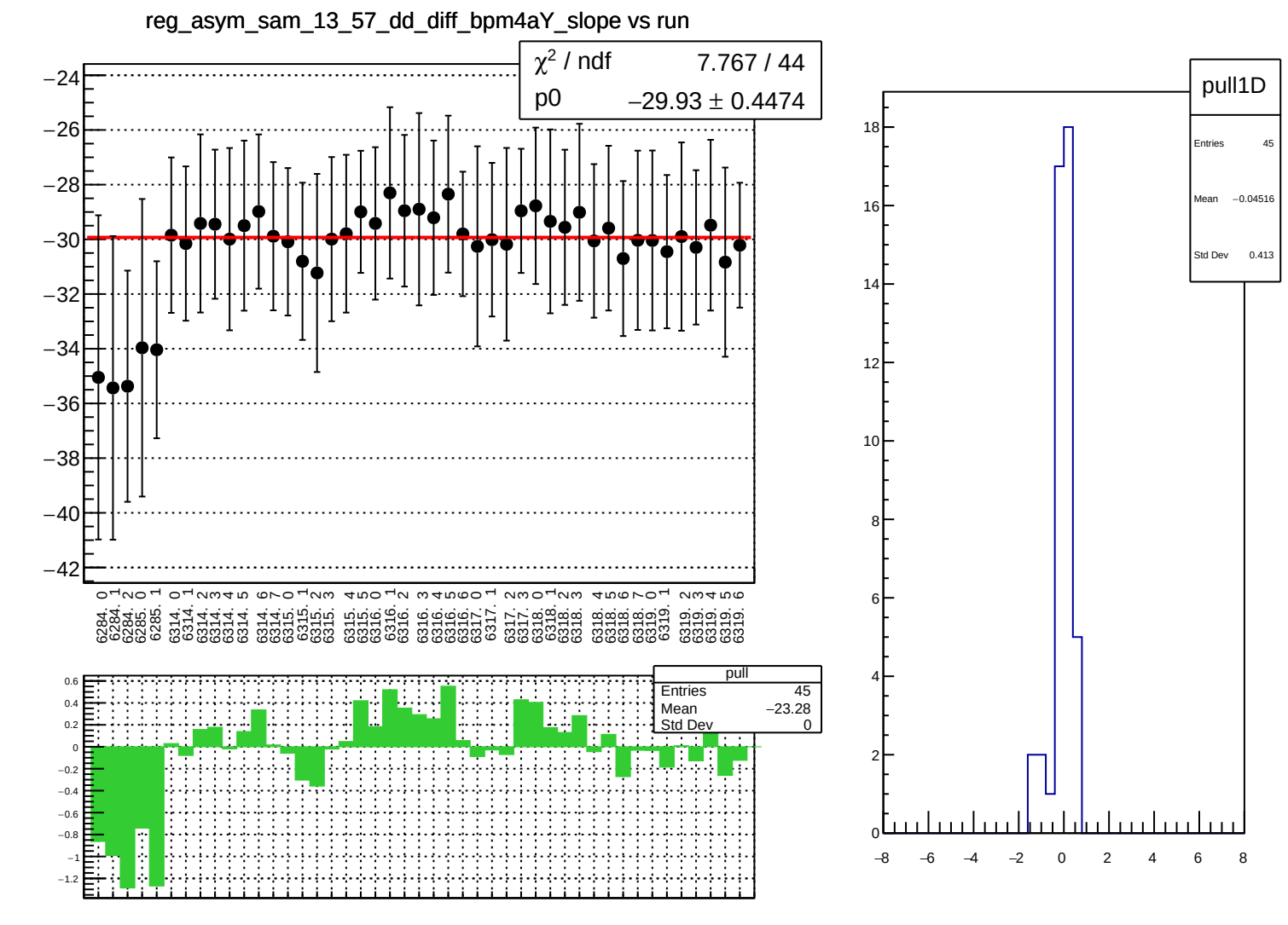

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.786 / 44
p0 −68.06 ± 1.934
pull
Entries 45
Mean 26.23
Std Dev 15.41

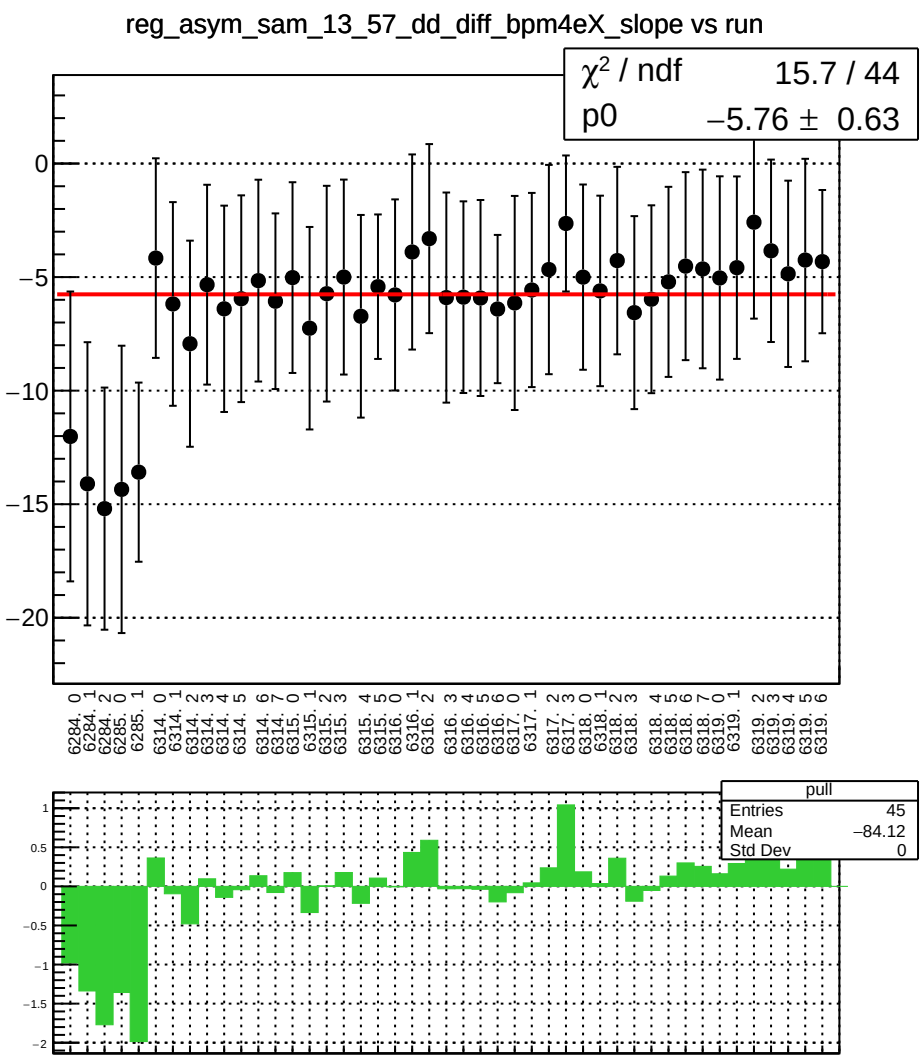

pull1D
Entries 45
Mean −0.005271
Std Dev 0.29

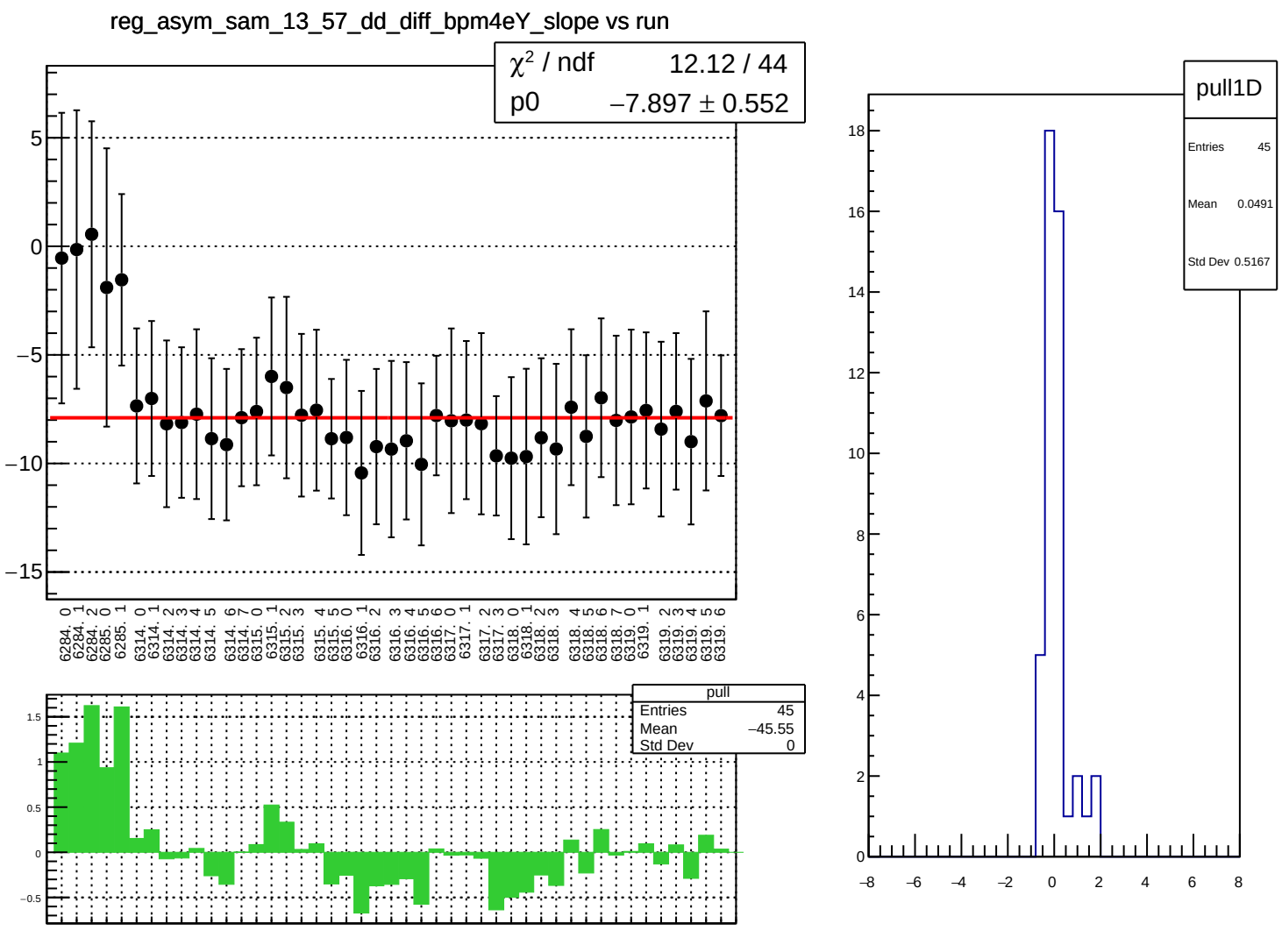

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.187 / 44
p0 103 ± 1.701
120
110
100
90
80
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 1261
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.00177
Std Dev 0.305
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

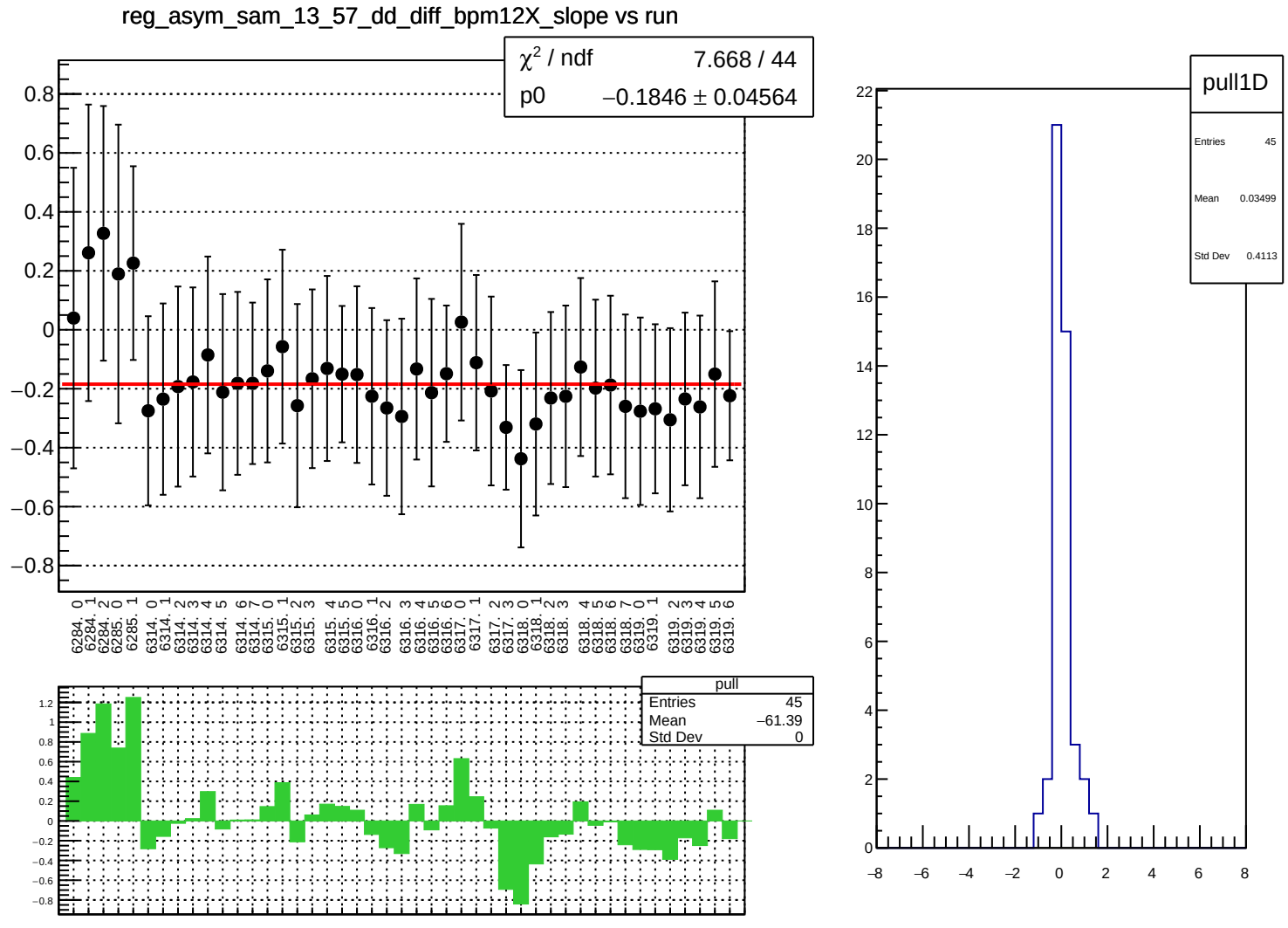

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.06 / 44
p0 0.04788 ± 0.1409
pull
Entries 45
Mean −410
Std Dev 0
pull1D
Entries 45
Mean −0.007397
Std Dev 0.4956

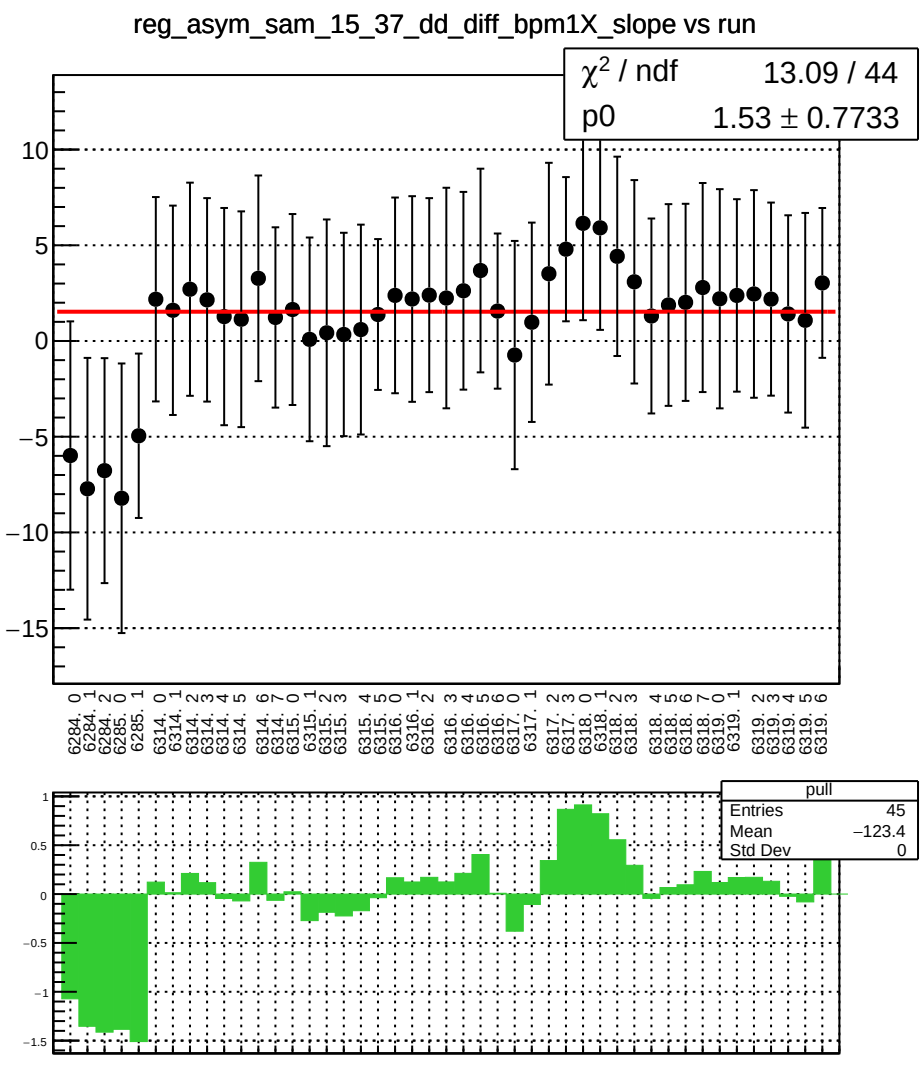

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 15.53 / 44
p0 −17.27 ± 0.6148
−5
−10
−15
−20
−25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −89.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 45
Mean 0.04369
Std Dev 0.5859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

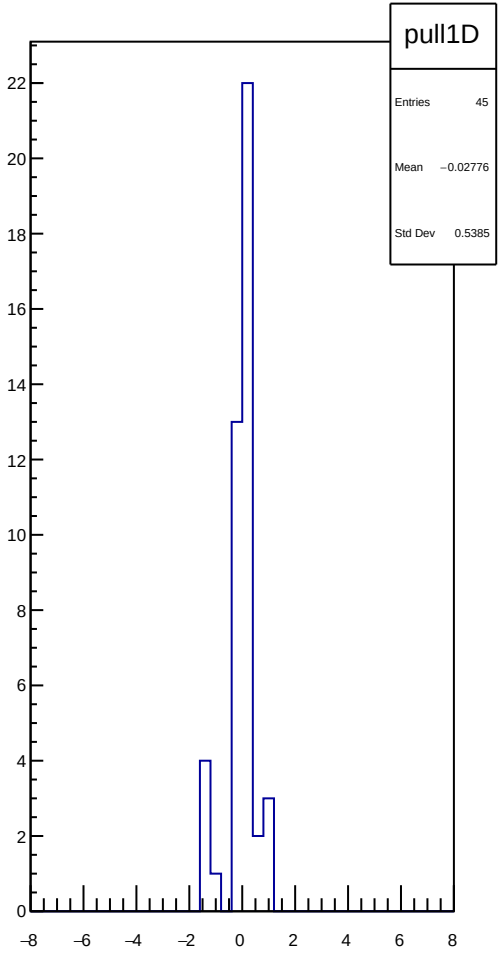

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.767 / 44
p0 −29.93 ± 0.4474
pull
Entries 45
Mean −23.28
Std Dev 0
pull1D
Entries 45
Mean −0.04516
Std Dev 0.413

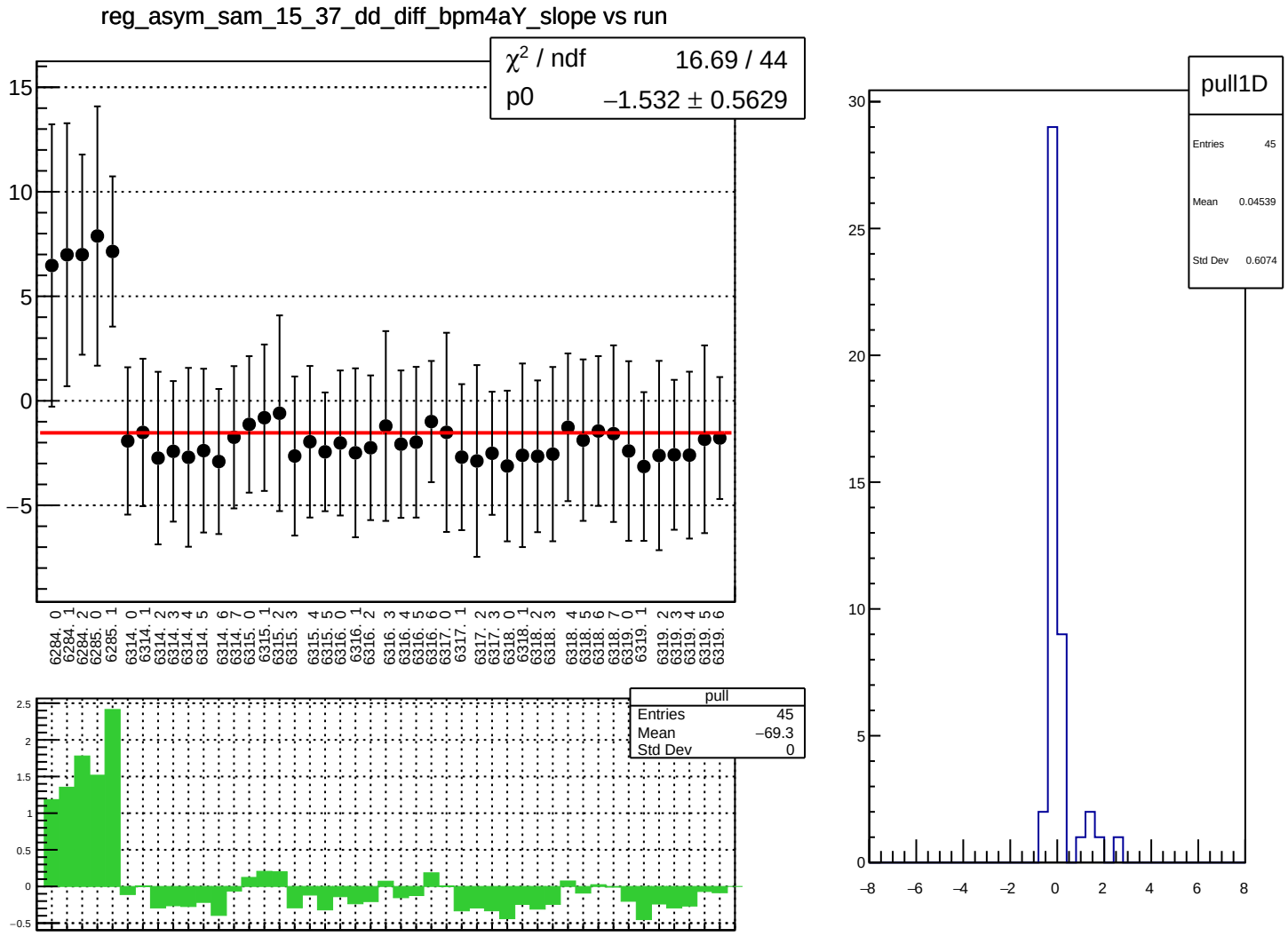

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.7 / 44
p0 −5.76 ± 0.63
0
−5
−10
−15
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −84.12
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04598
Std Dev 0.5889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

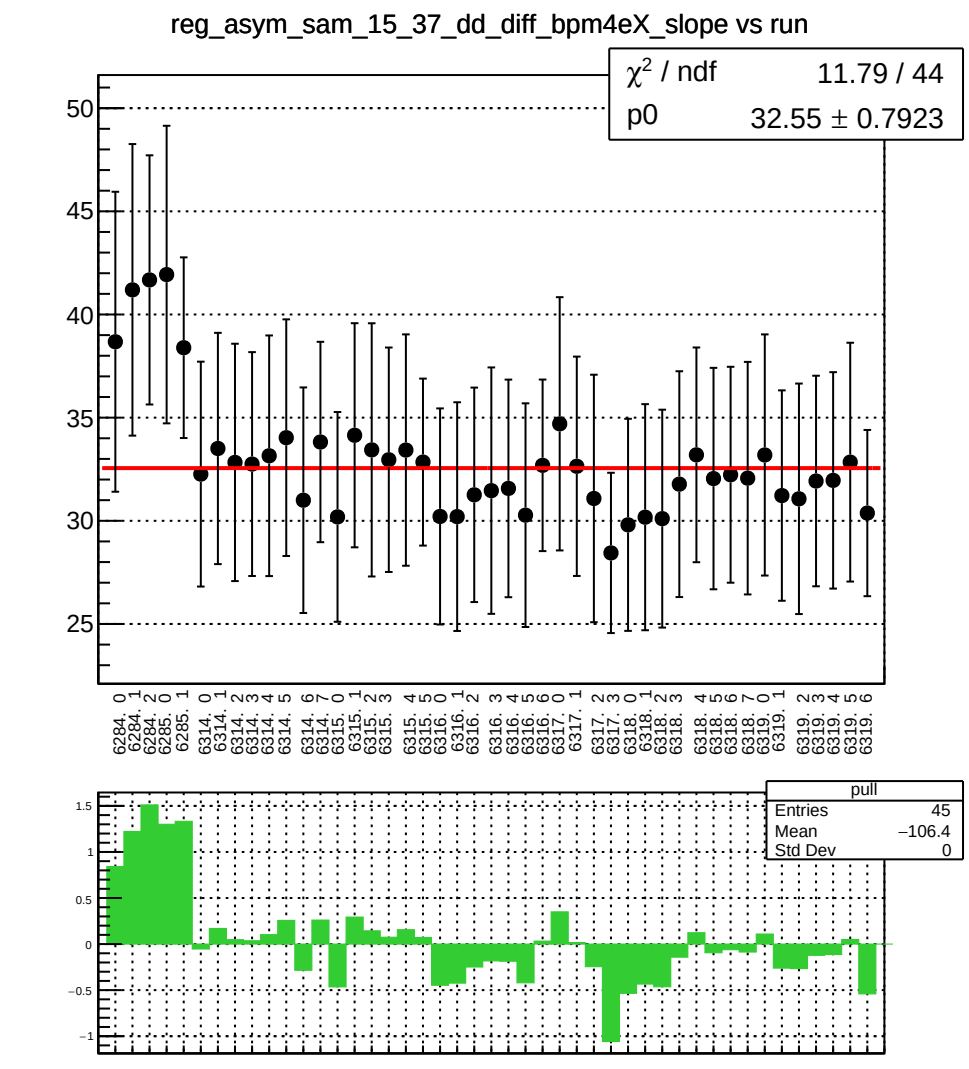

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.12 / 44
p0 −7.897 ± 0.552
pull
Entries 45
Mean −45.55
Std Dev 0
pull1D
Entries 45
Mean 0.0491
Std Dev 0.5167

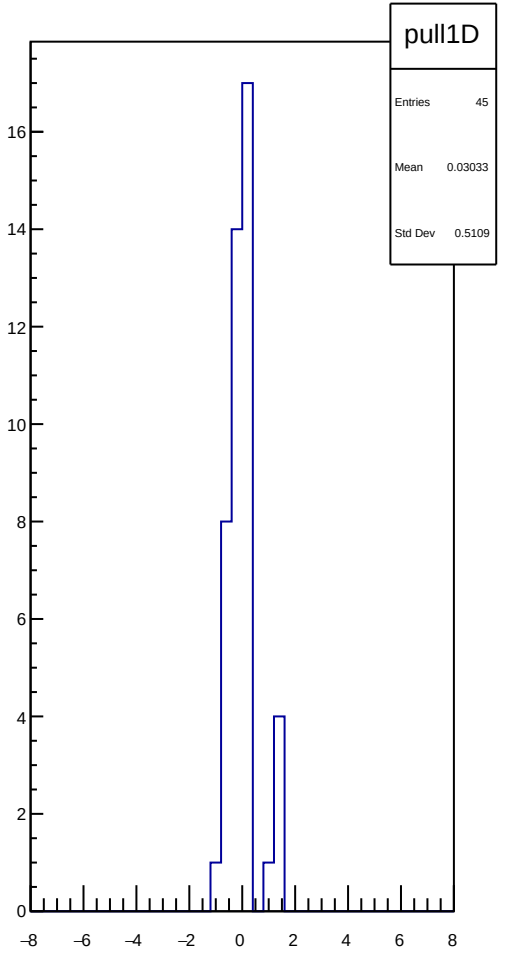

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 7.668 / 44
p0 −0.1846 ± 0.04564
pull
Entries 45
Mean −61.39
Std Dev 0
pull1D
Entries 45
Mean 0.03499
Std Dev 0.4113

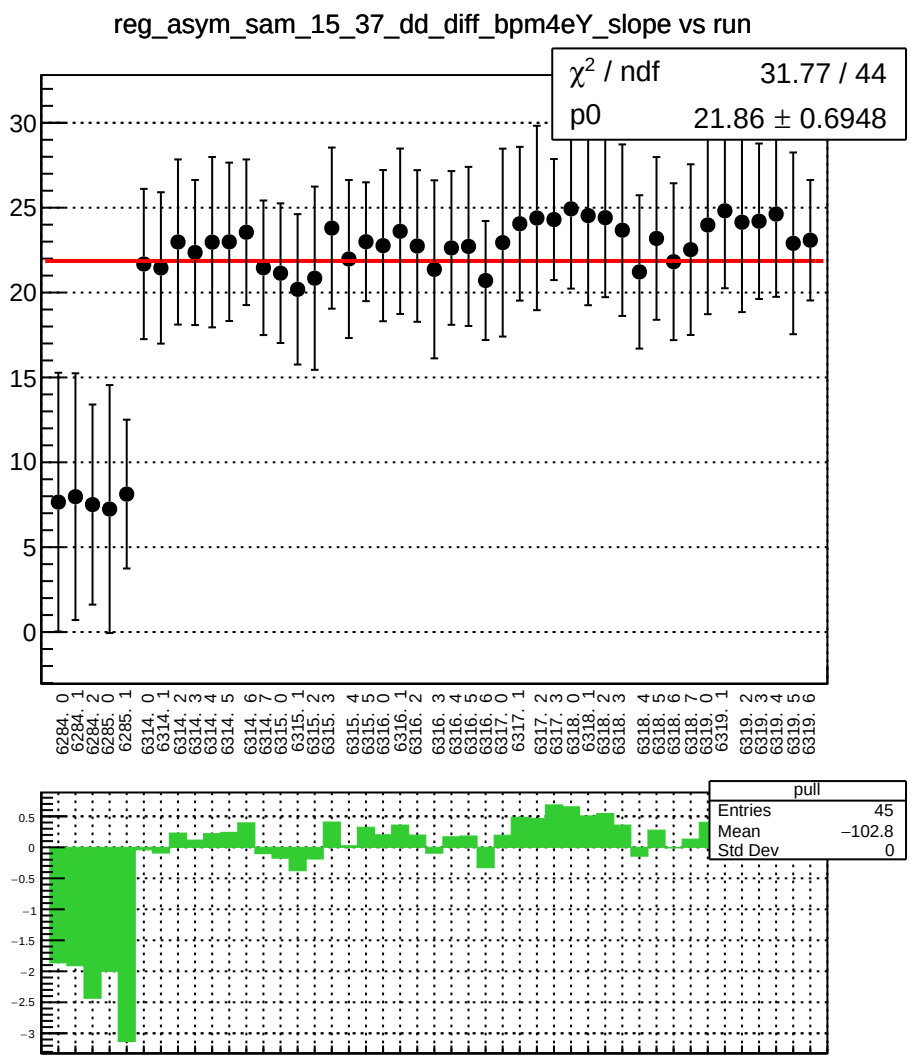

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 13.09 / 44
p0 1.53 ± 0.7733
pull
Entries 45
Mean −123.4
Std Dev 0

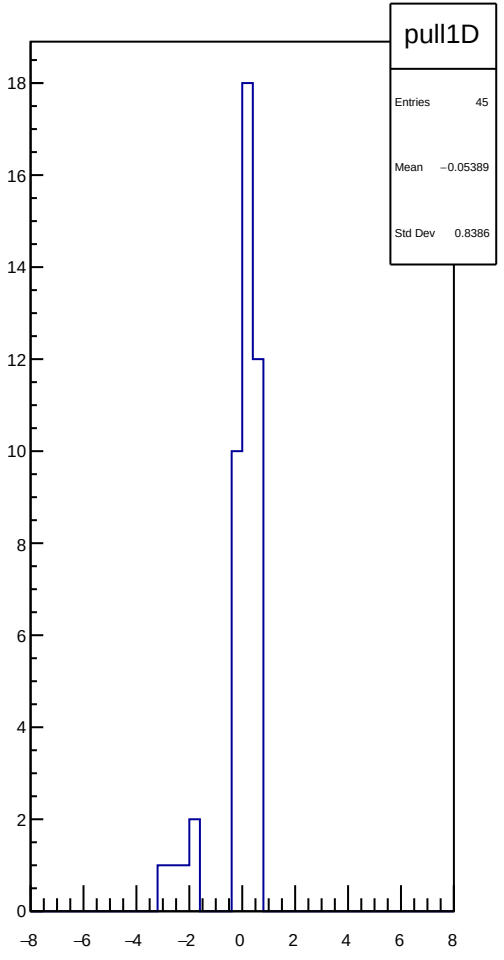

pull1D
Entries 45
Mean −0.02776
Std Dev 0.5385

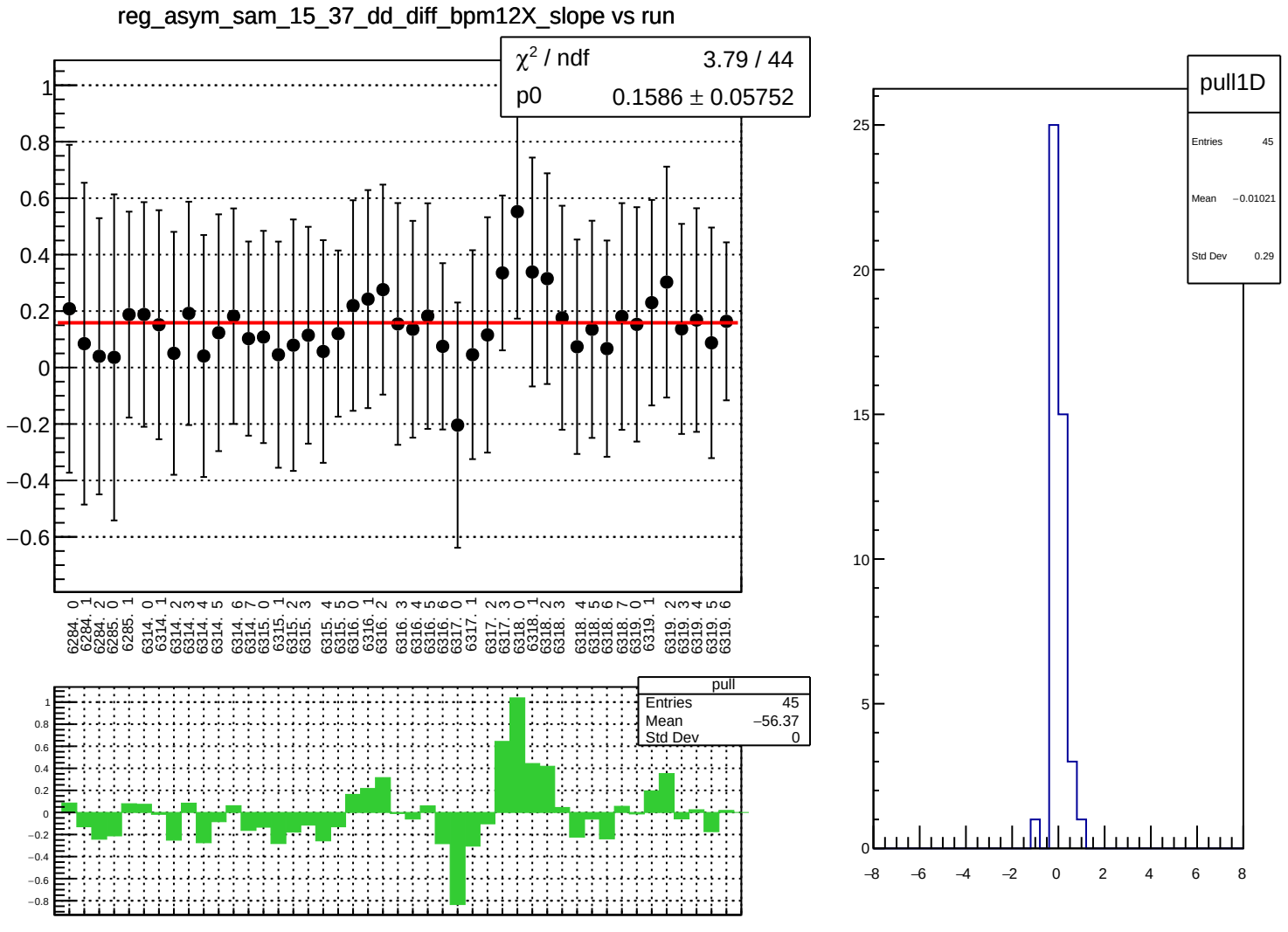

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.69 / 44
p0 −1.532 ± 0.5629
pull
Entries 45
Mean −69.3
Std Dev 0
pull1D
Entries 45
Mean 0.04539
Std Dev 0.6074

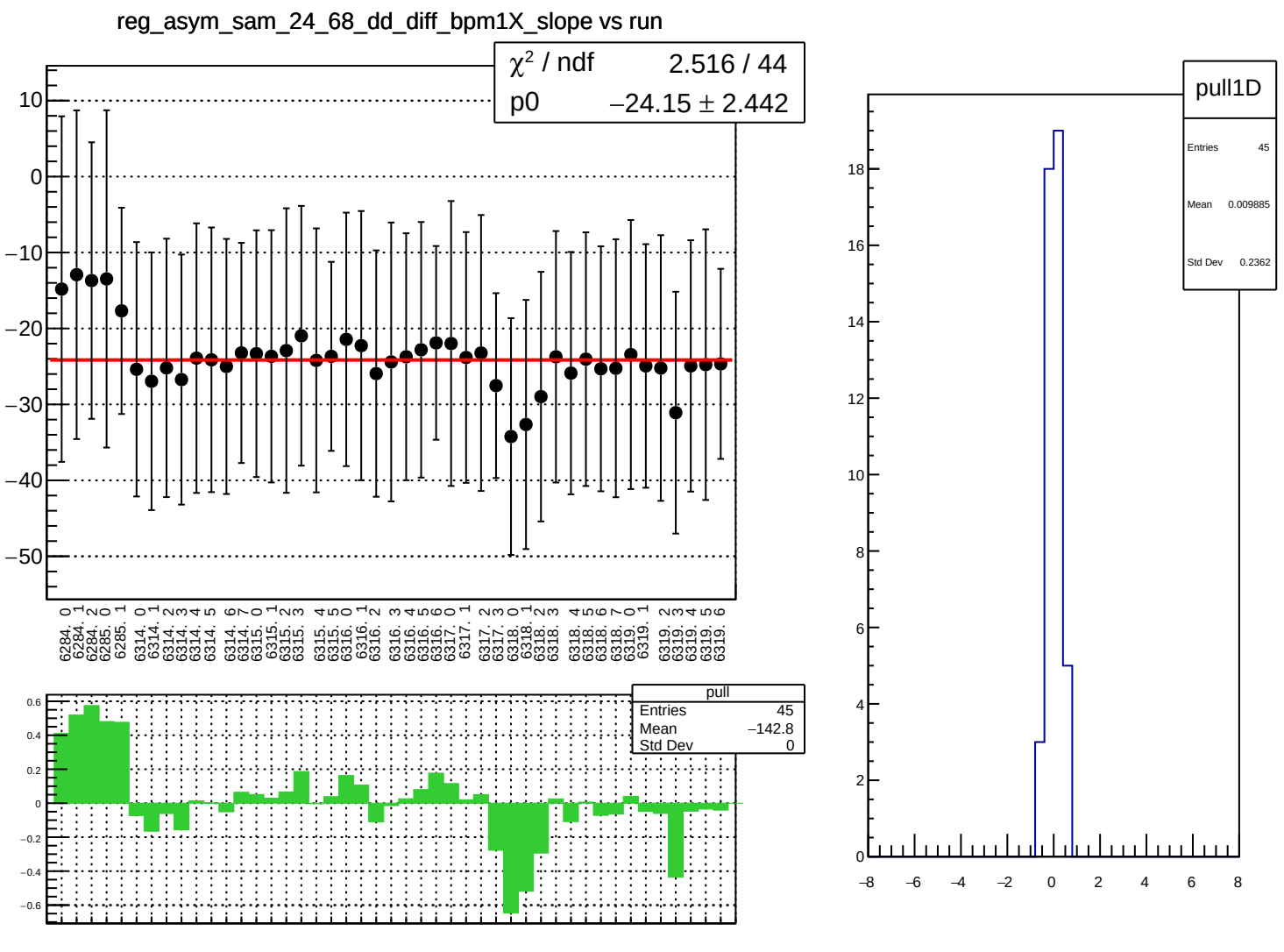

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.79 / 44
p0 32.55 ± 0.7923
50
45
40
35
30
25
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −106.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

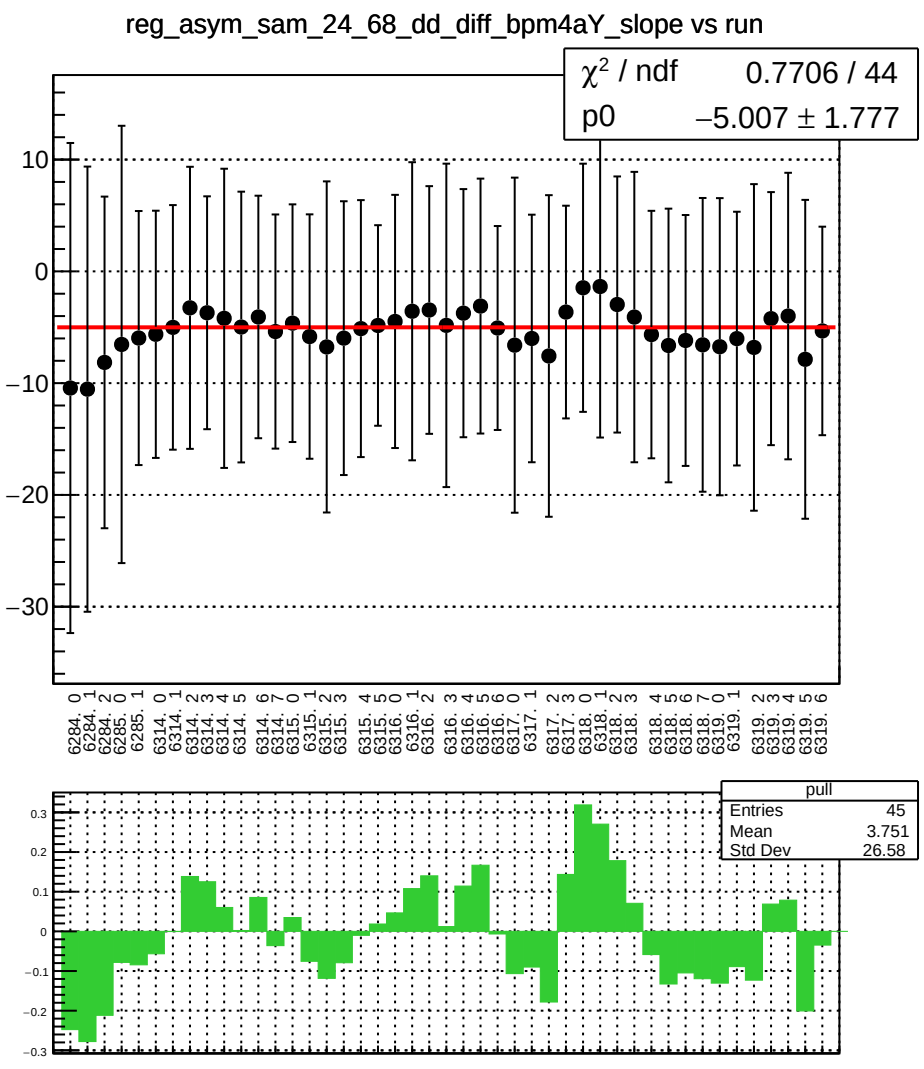

pull1D
Entries 45
Mean 0.03033
Std Dev 0.5109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

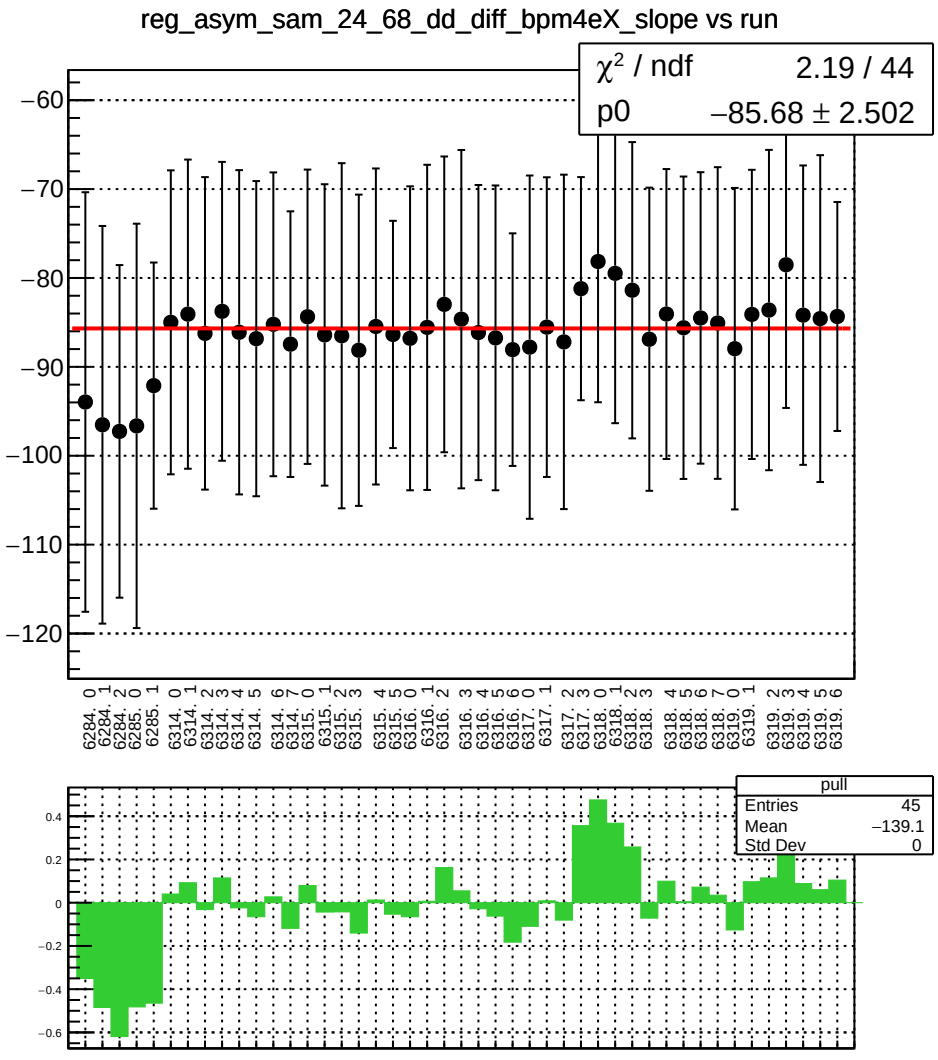

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.77 / 44
p0 21.86 ± 0.6948
pull
Entries 45
Mean −102.8
Std Dev 0

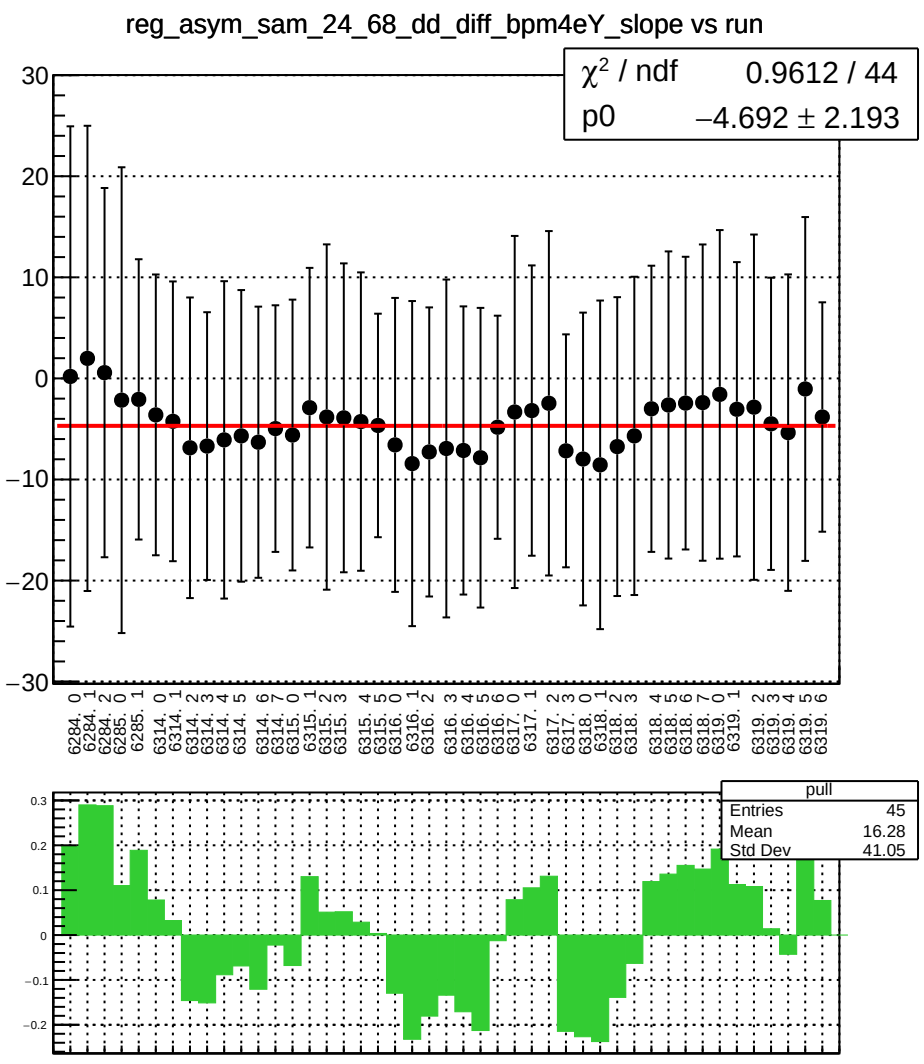

pull1D
Entries 45
Mean −0.05389
Std Dev 0.8386

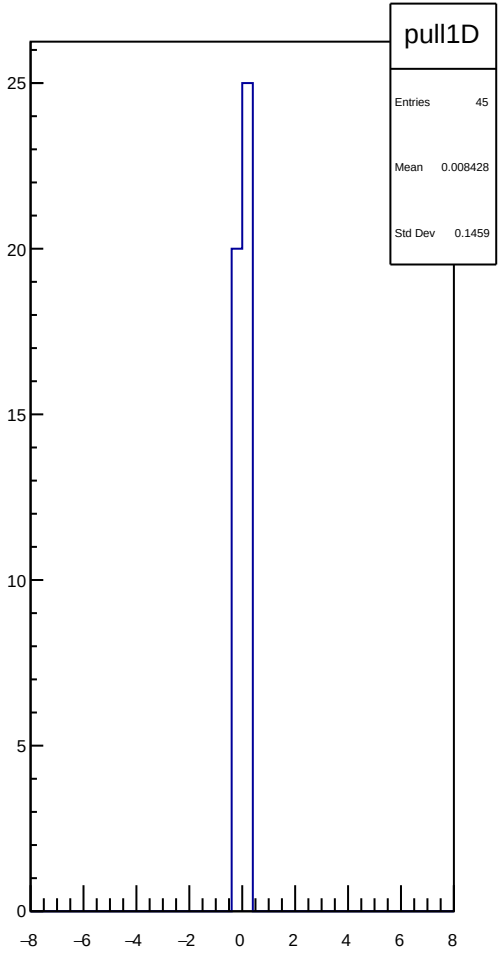

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.79 / 44
p0 0.1586 ± 0.05752
pull
Entries 45
Mean −56.37
Std Dev 0
pull1D
Entries 45
Mean −0.01021
Std Dev 0.29

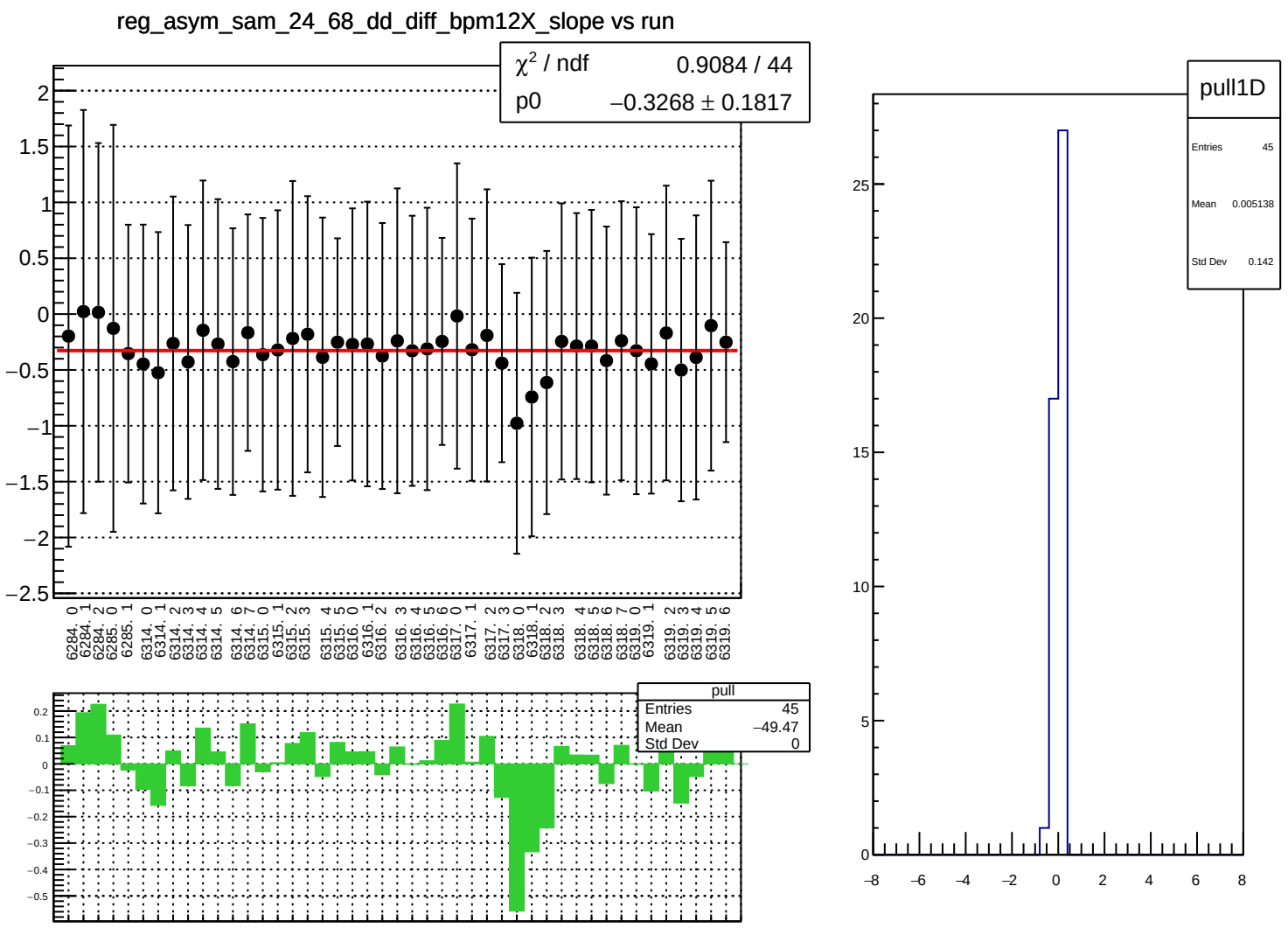

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.516 / 44
p0 −24.15 ± 2.442
10
0
−10
−20
−30
−40
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −142.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.009885
Std Dev 0.2362
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

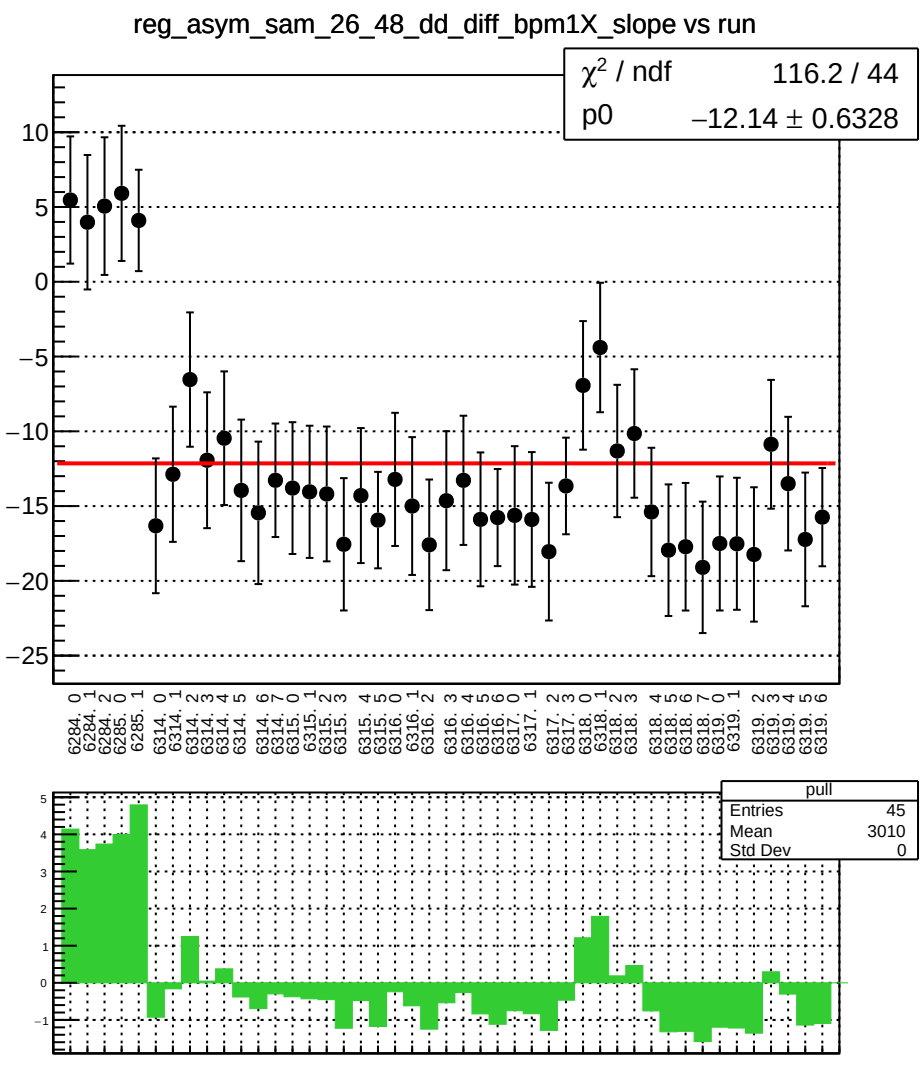

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7706 / 44
p0 −5.007 ± 1.777
10
0
−10
−20
−30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3.751
Std Dev 26.58
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.01042
Std Dev 0.1304
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

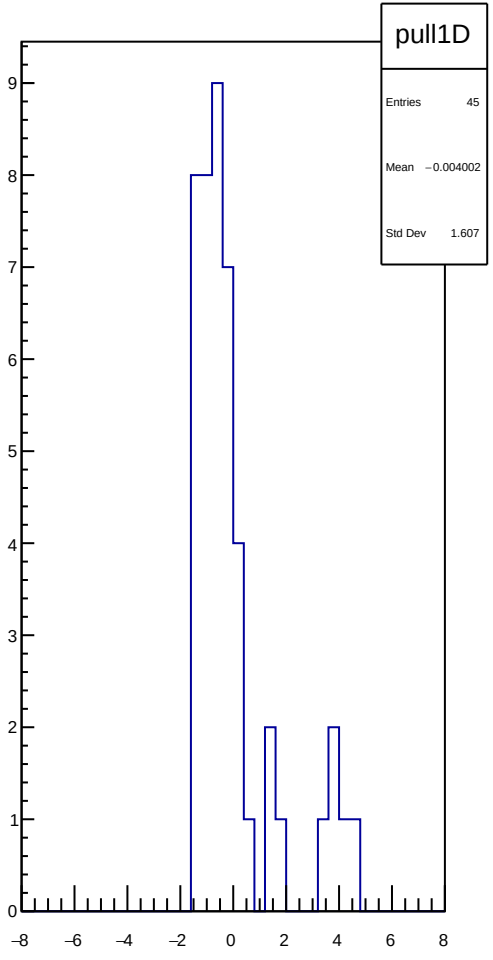

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.19 / 44
p0 −85.68 ± 2.502
pull
Entries 45
Mean −139.1
Std Dev 0
pull1D
Entries 45
Mean −0.01038
Std Dev 0.2204

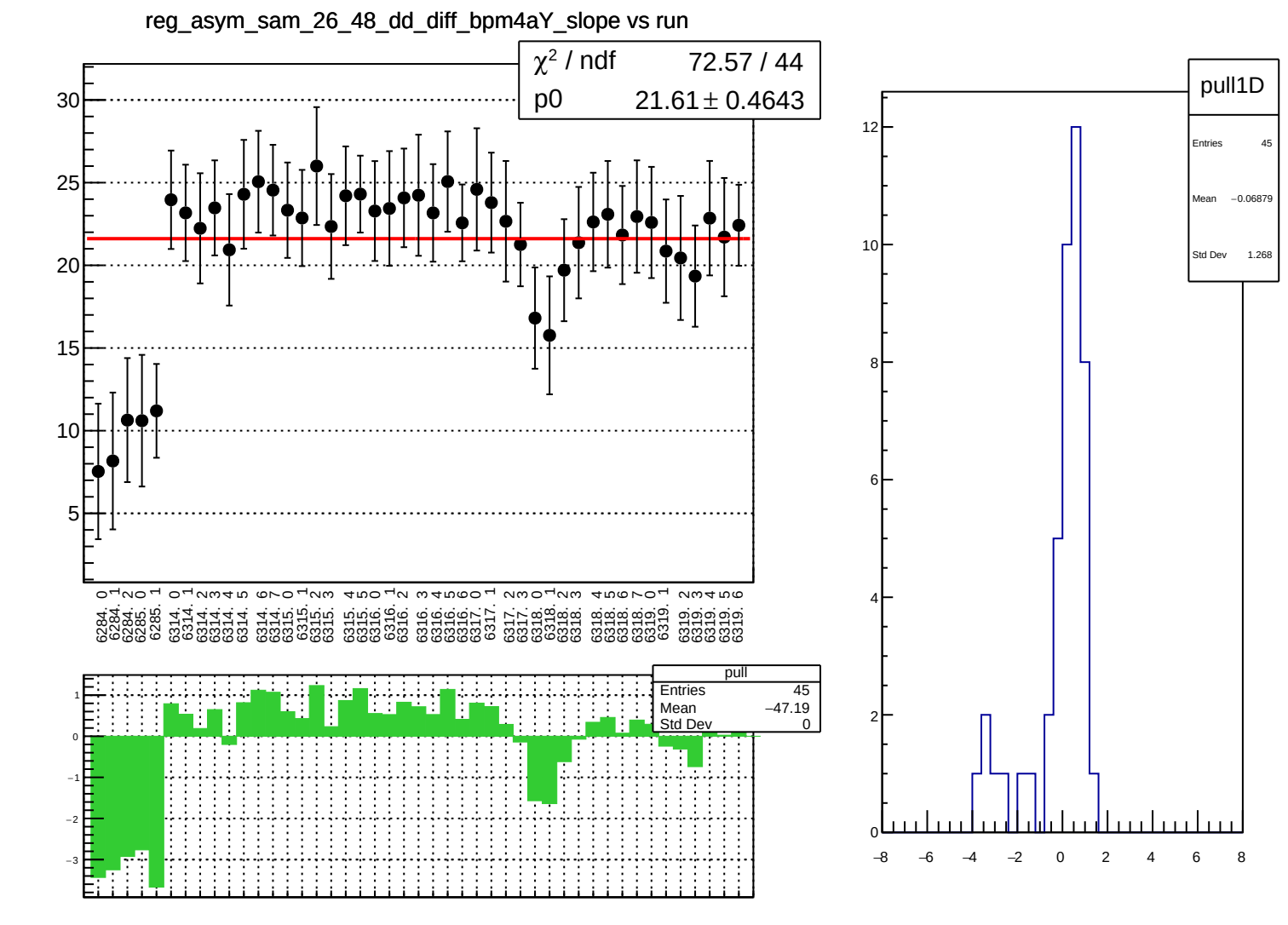

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9612 / 44
p0 −4.692 ± 2.193
pull
Entries 45
Mean 16.28
Std Dev 41.05

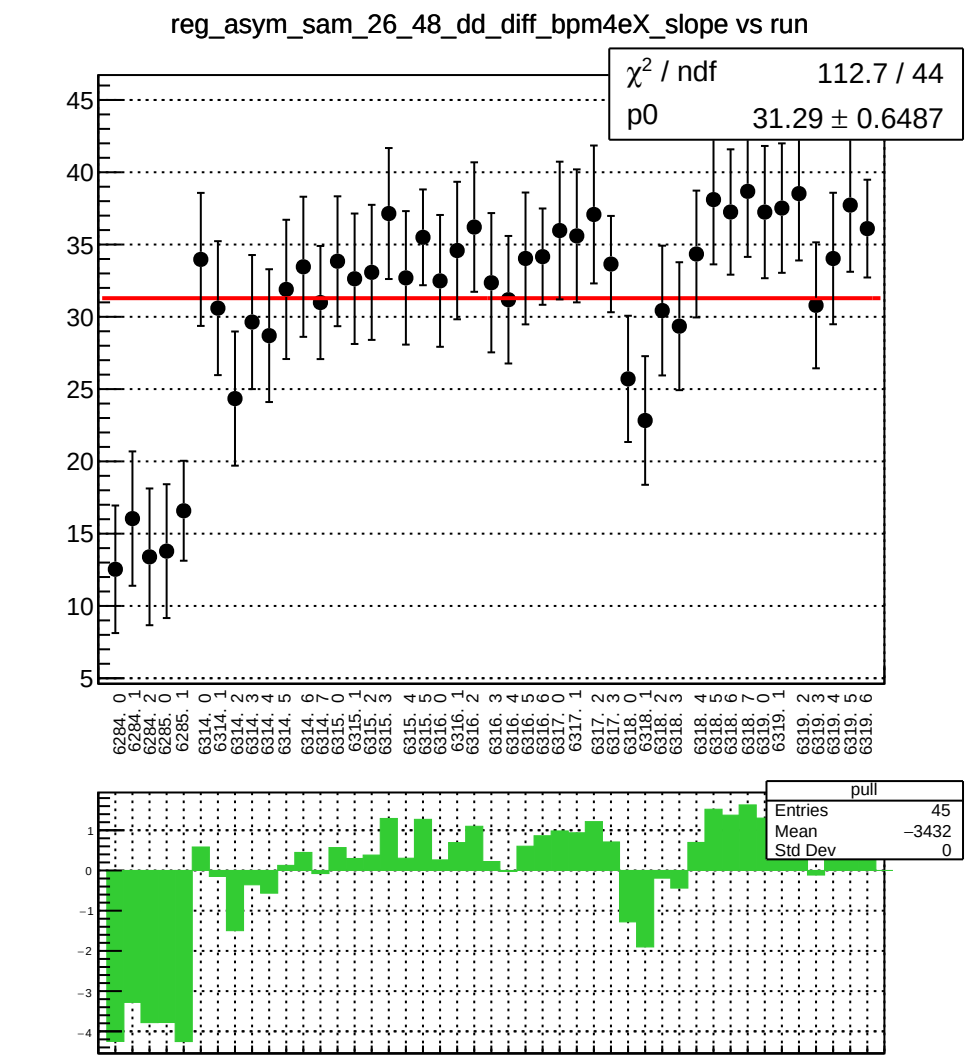

pull1D
Entries 45
Mean 0.008428
Std Dev 0.1459

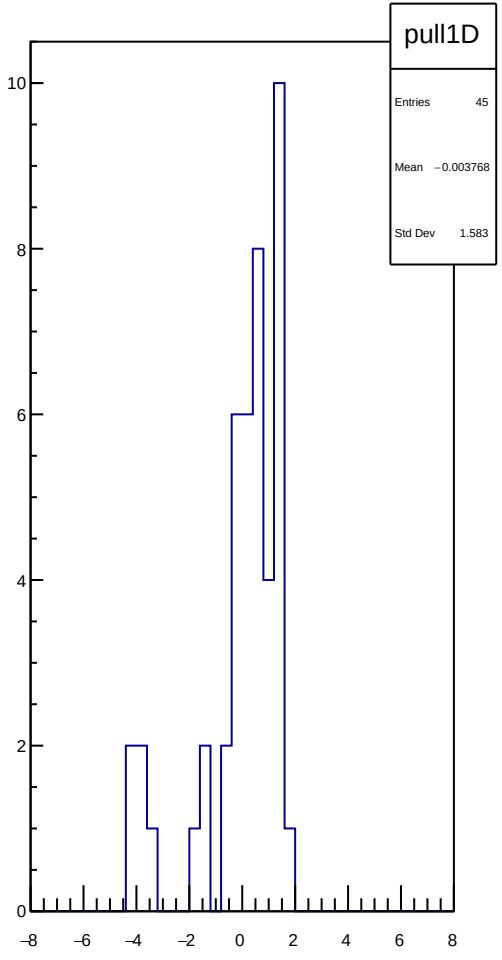

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9084 / 44
p0 −0.3268 ± 0.1817
pull
Entries 45
Mean −49.47
Std Dev 0
pull1D
Entries 45
Mean 0.005138
Std Dev 0.142

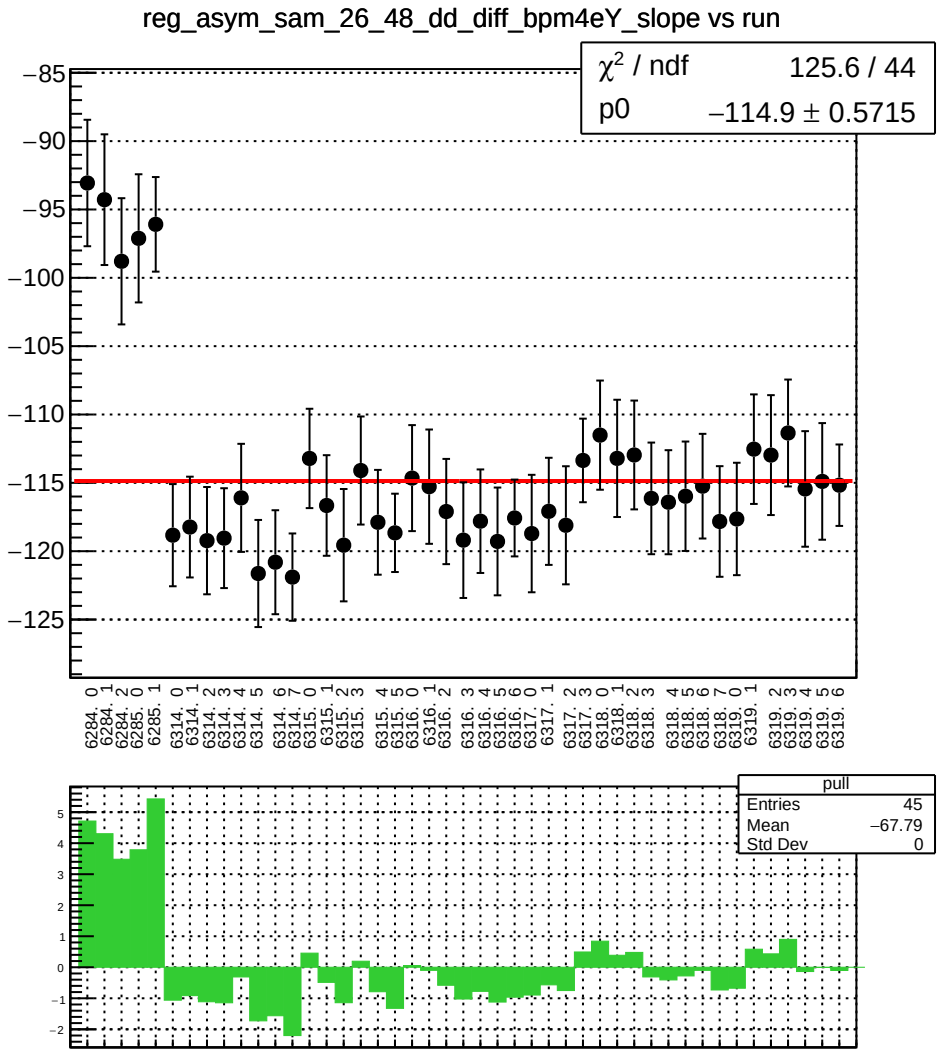

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 116.2 / 44
p0 −12.14 ± 0.6328
pull
Entries 45
Mean 3010
Std Dev 0

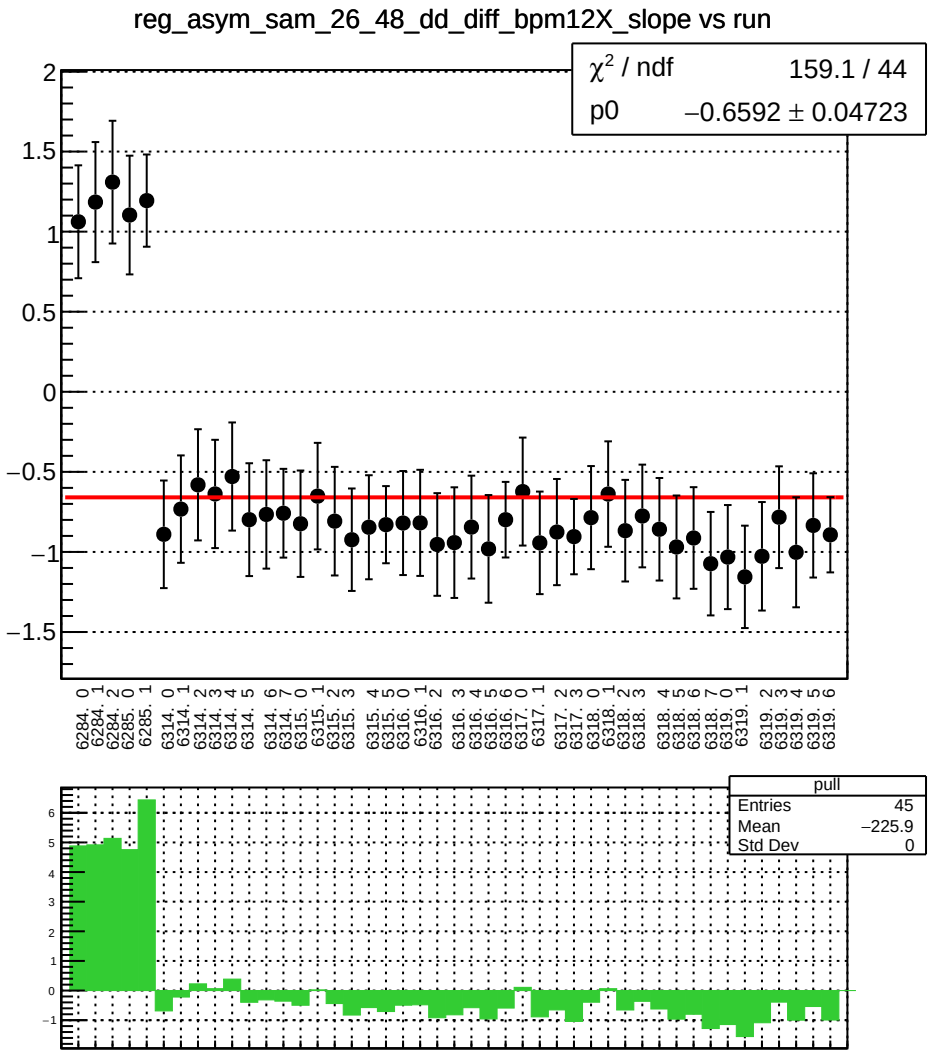

pull1D
Entries 45
Mean −0.004002
Std Dev 1.607

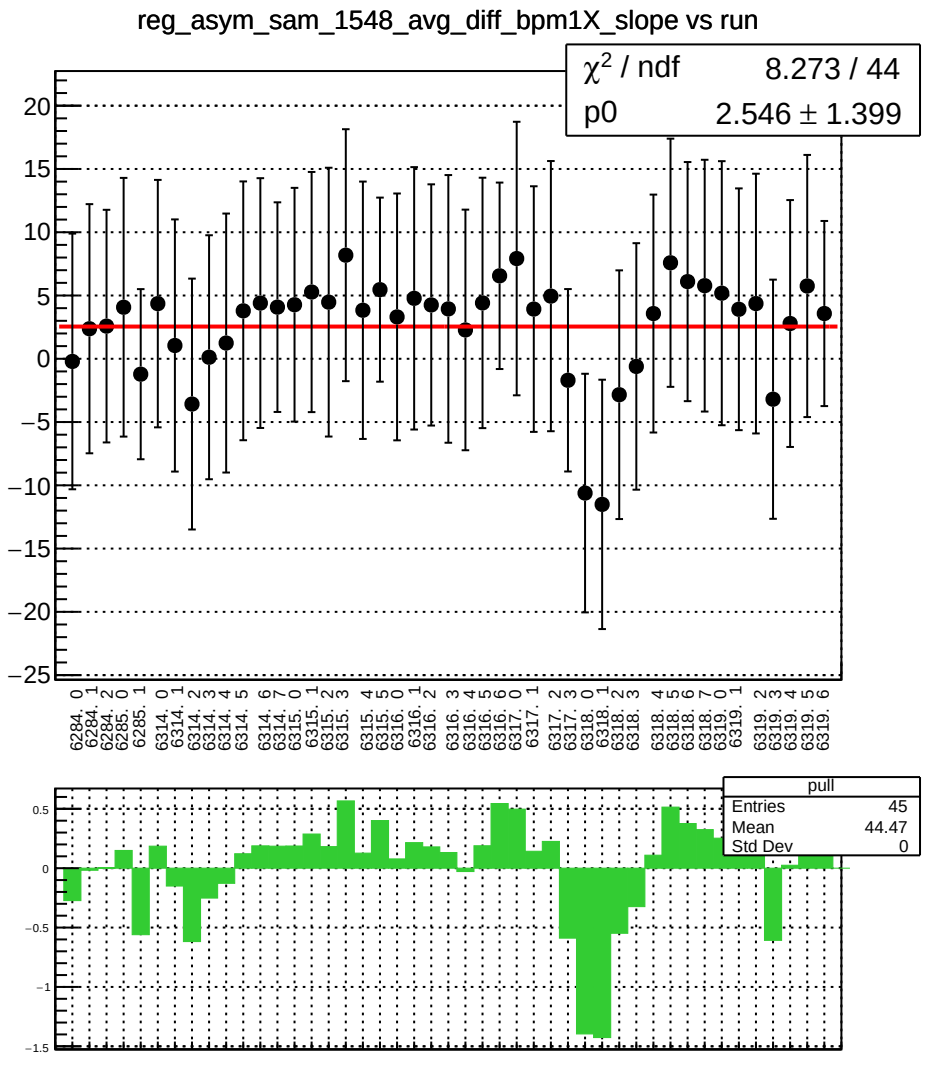

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.57 / 44
p0 21.61 ± 0.4643
pull
Entries 45
Mean −47.19
Std Dev 0
pull1D
Entries 45
Mean −0.06879
Std Dev 1.268

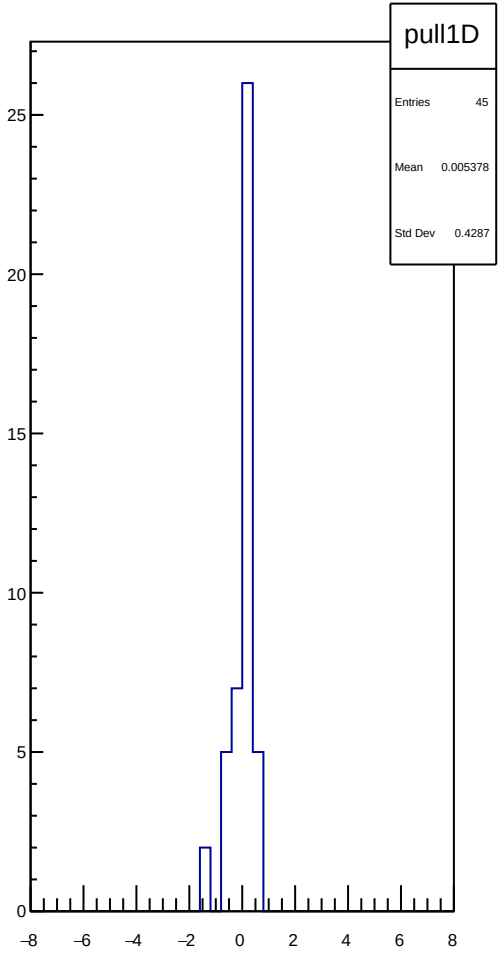

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 112.7 / 44
p0 31.29 ± 0.6487
pull
Entries 45
Mean −3432
Std Dev 0

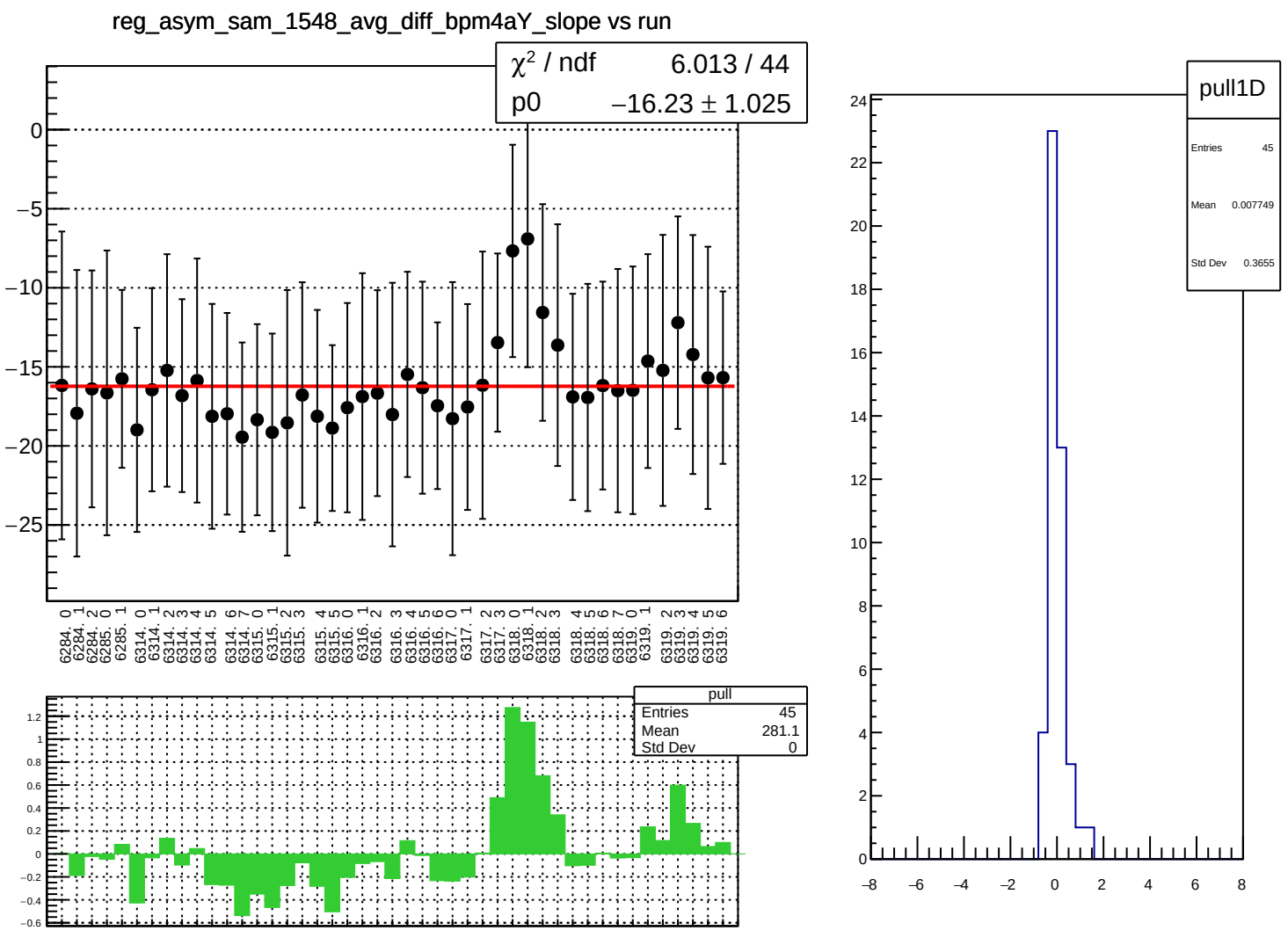

pull1D
Entries 45
Mean −0.003768
Std Dev 1.583

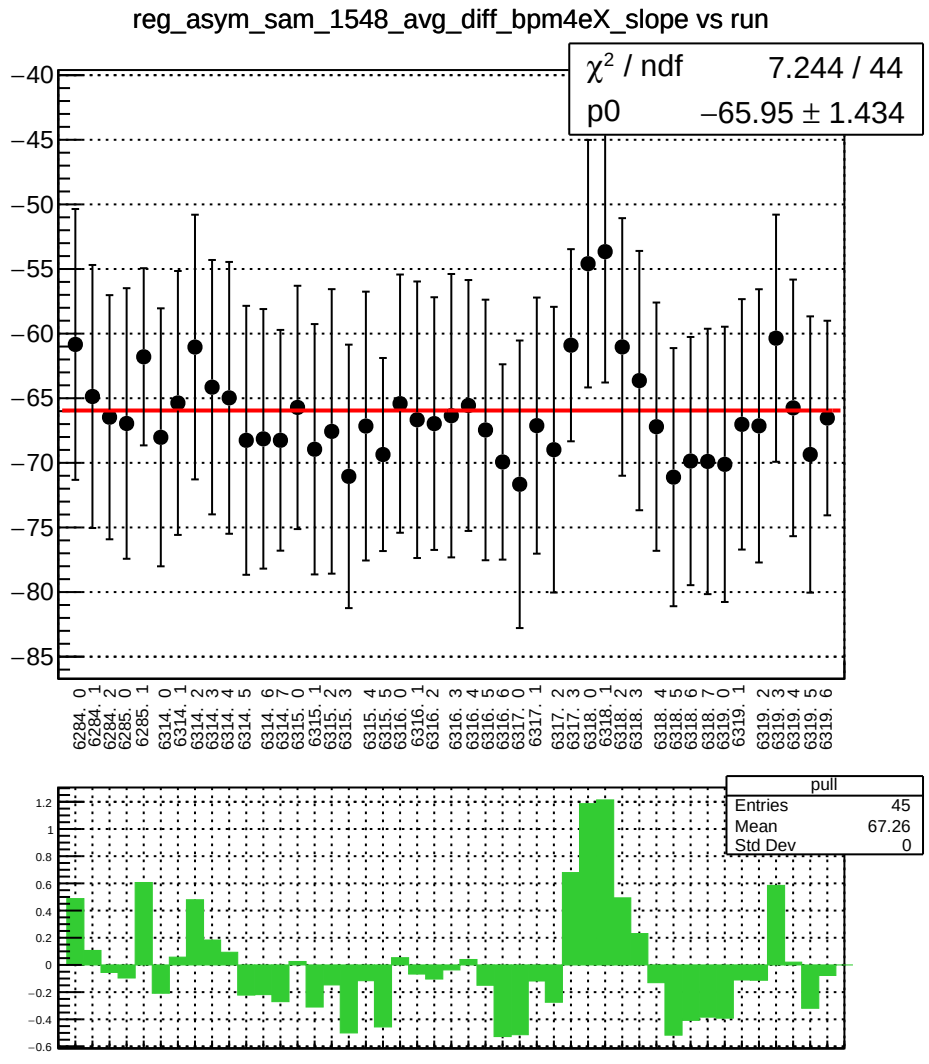

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 125.6 / 44
p0 −114.9 ± 0.5715
pull
Entries 45
Mean −67.79
Std Dev 0
pull1D
Entries 45
Mean 0.07173
Std Dev 1.669

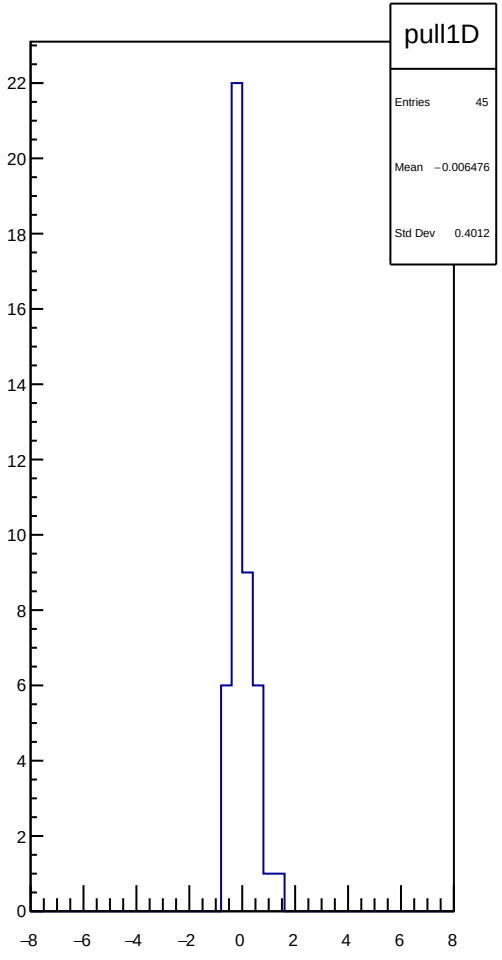

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 159.1 / 44
p0 −0.6592 ± 0.04723
pull
Entries 45
Mean −225.9
Std Dev 0
pull1D
Entries 45
Mean 0.0616
Std Dev 1.879

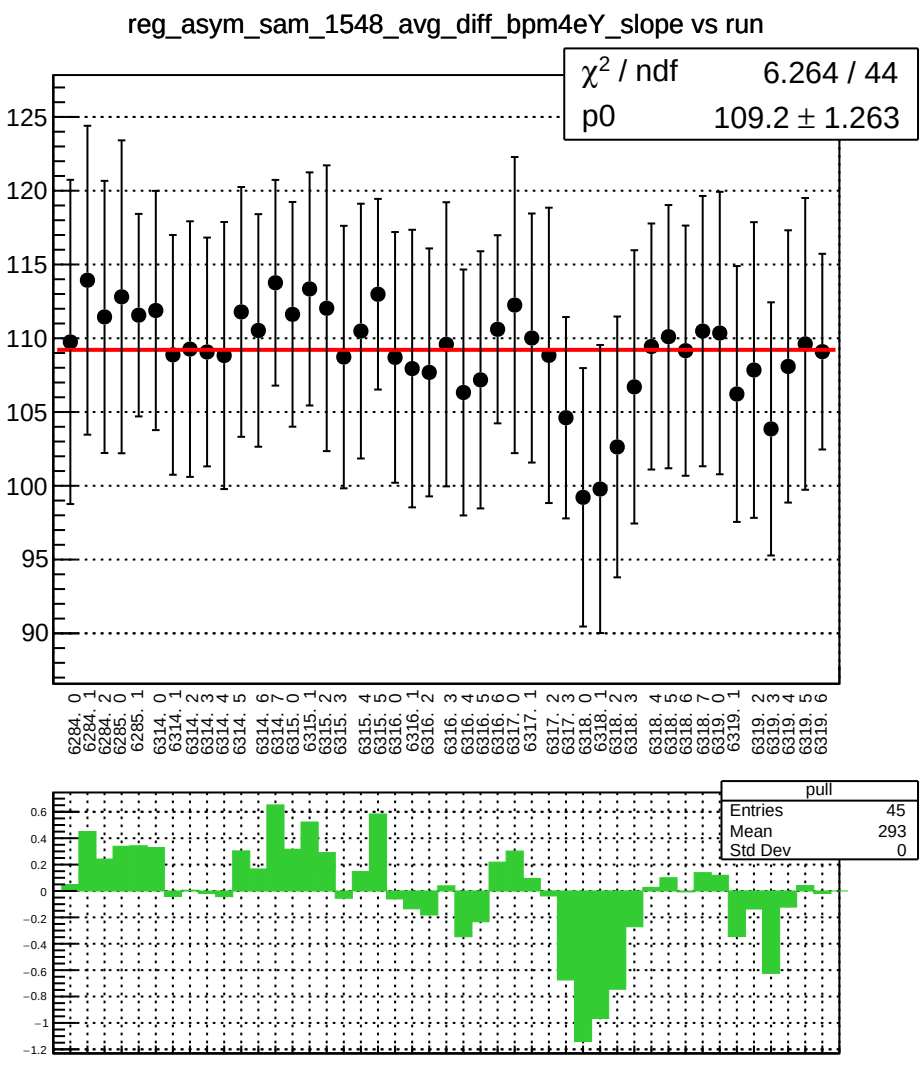

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 8.273 / 44
p0 2.546 ± 1.399
pull
Entries 45
Mean 44.47
Std Dev 0

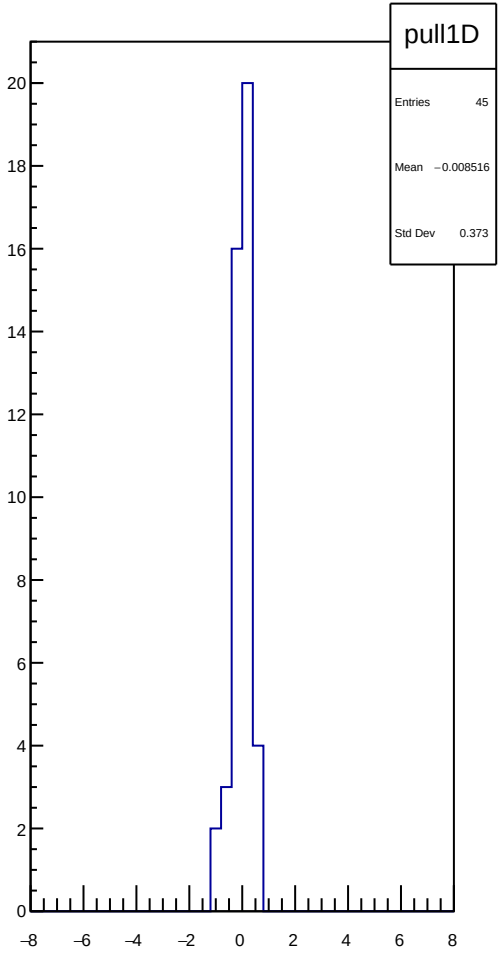

pull1D
Entries 45
Mean 0.005378
Std Dev 0.4287

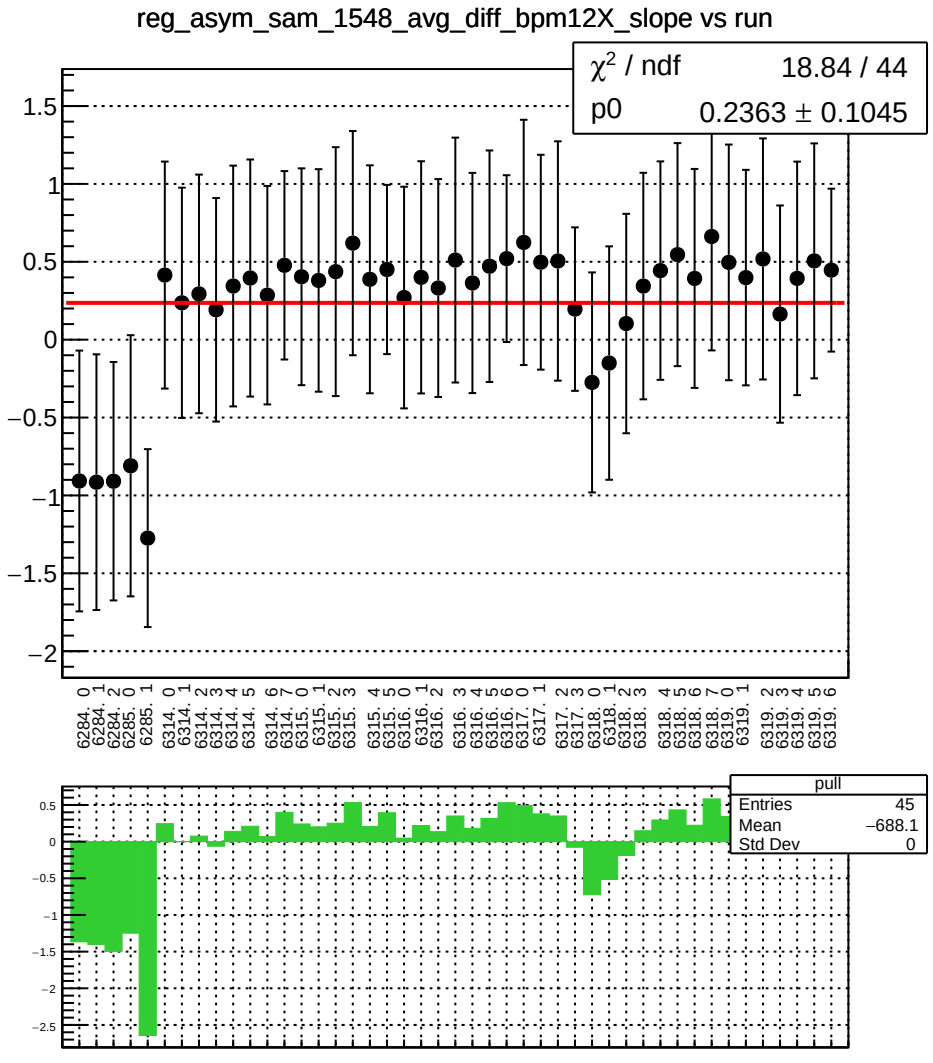

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.013 / 44
p0 −16.23 ± 1.025
pull
Entries 45
Mean 281.1
Std Dev 0
pull1D
Entries 45
Mean 0.007749
Std Dev 0.3655

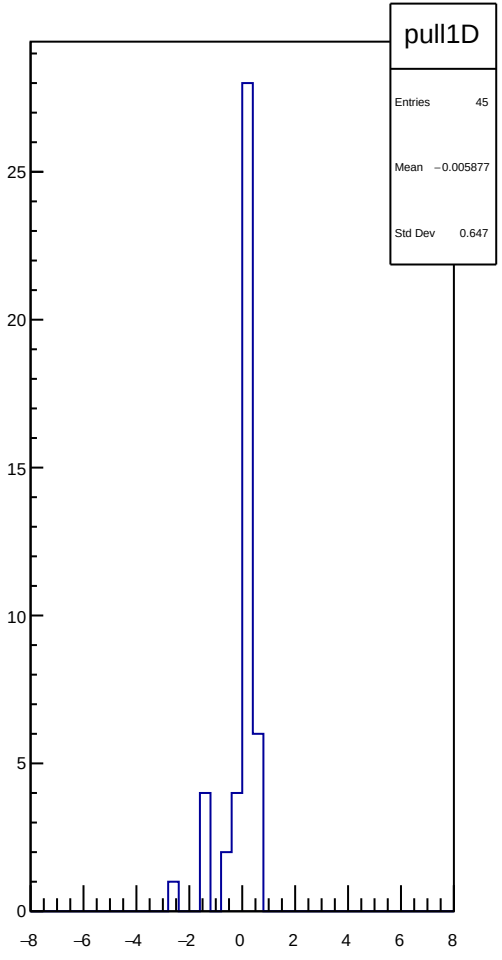

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.244 / 44
p0 −65.95 ± 1.434
pull
Entries 45
Mean 67.26
Std Dev 0

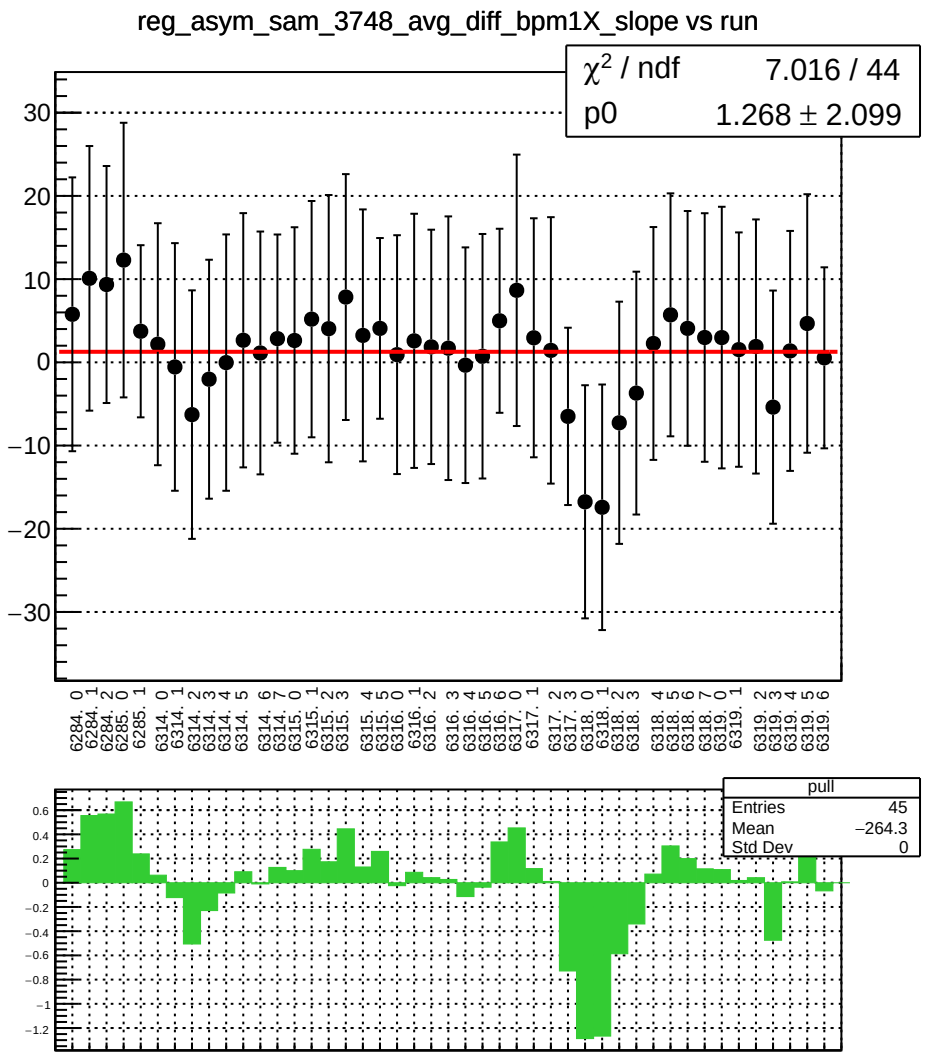

pull1D
Entries 45
Mean −0.006476
Std Dev 0.4012

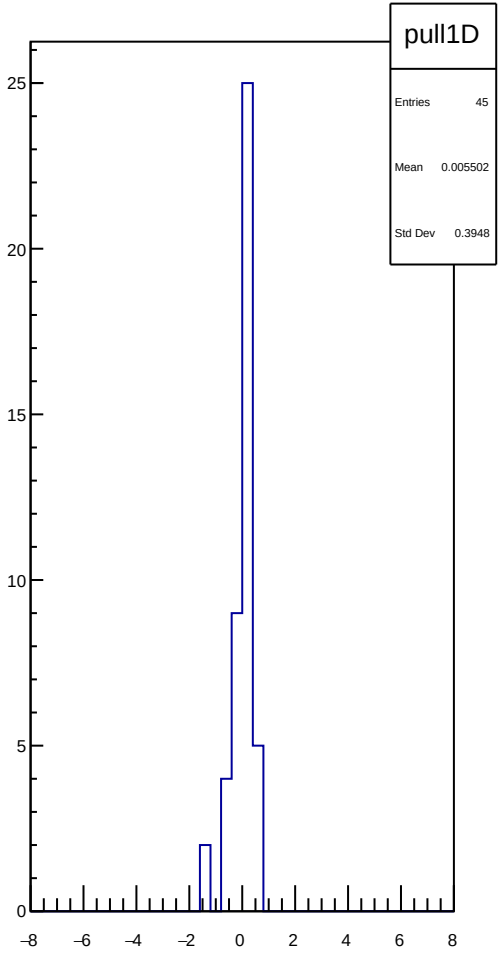

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.264 / 44
p0 109.2 ± 1.263
pull
Entries 45
Mean 293
Std Dev 0

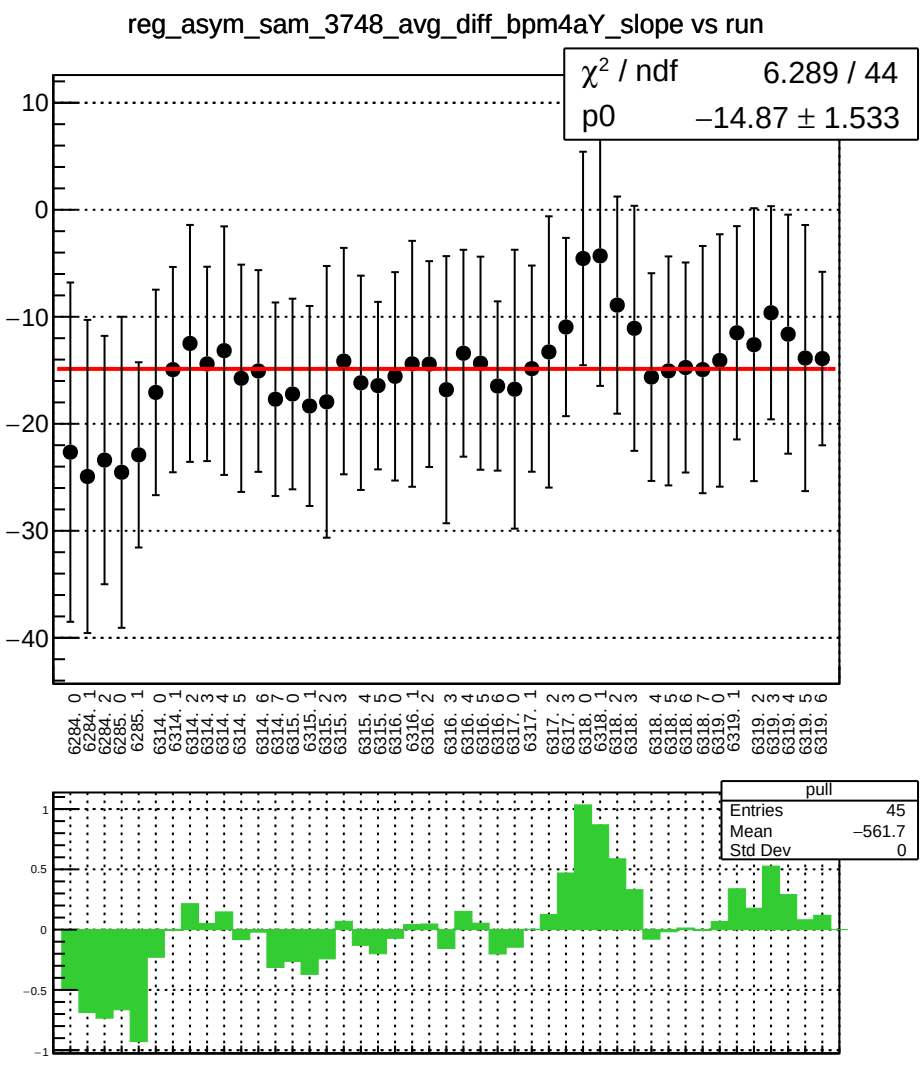

pull1D
Entries 45
Mean −0.008516
Std Dev 0.373

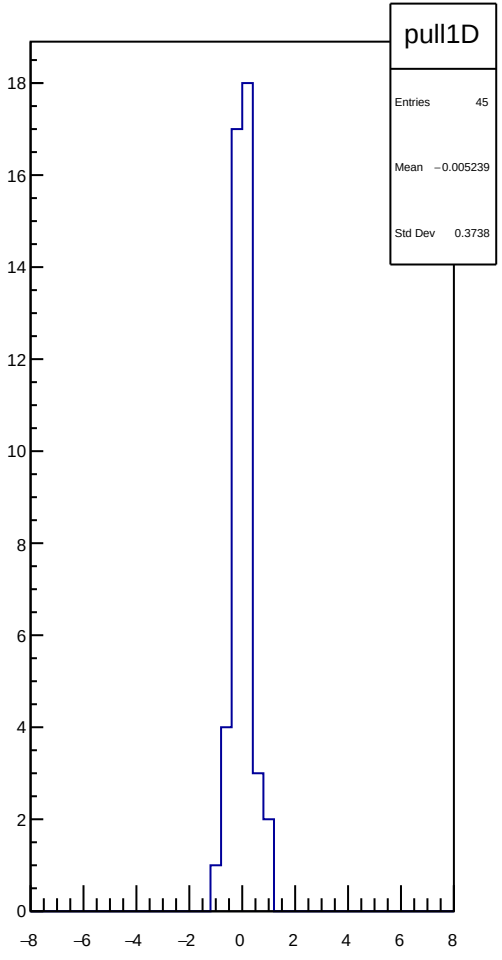

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 18.84 / 44
p0 0.2363 ± 0.1045
pull
Entries 45
Mean −688.1
Std Dev 0

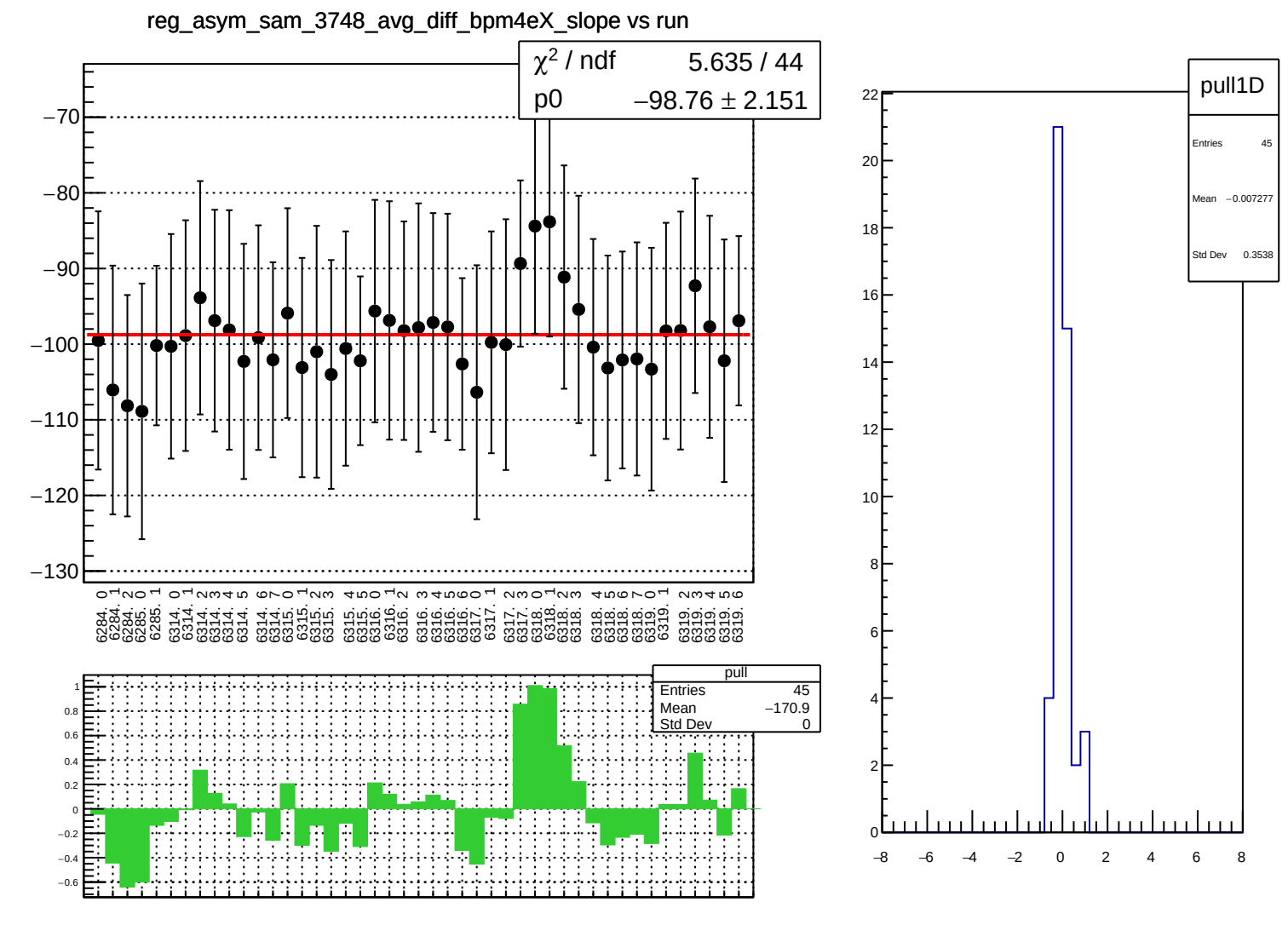

pull1D
Entries 45
Mean −0.005877
Std Dev 0.647

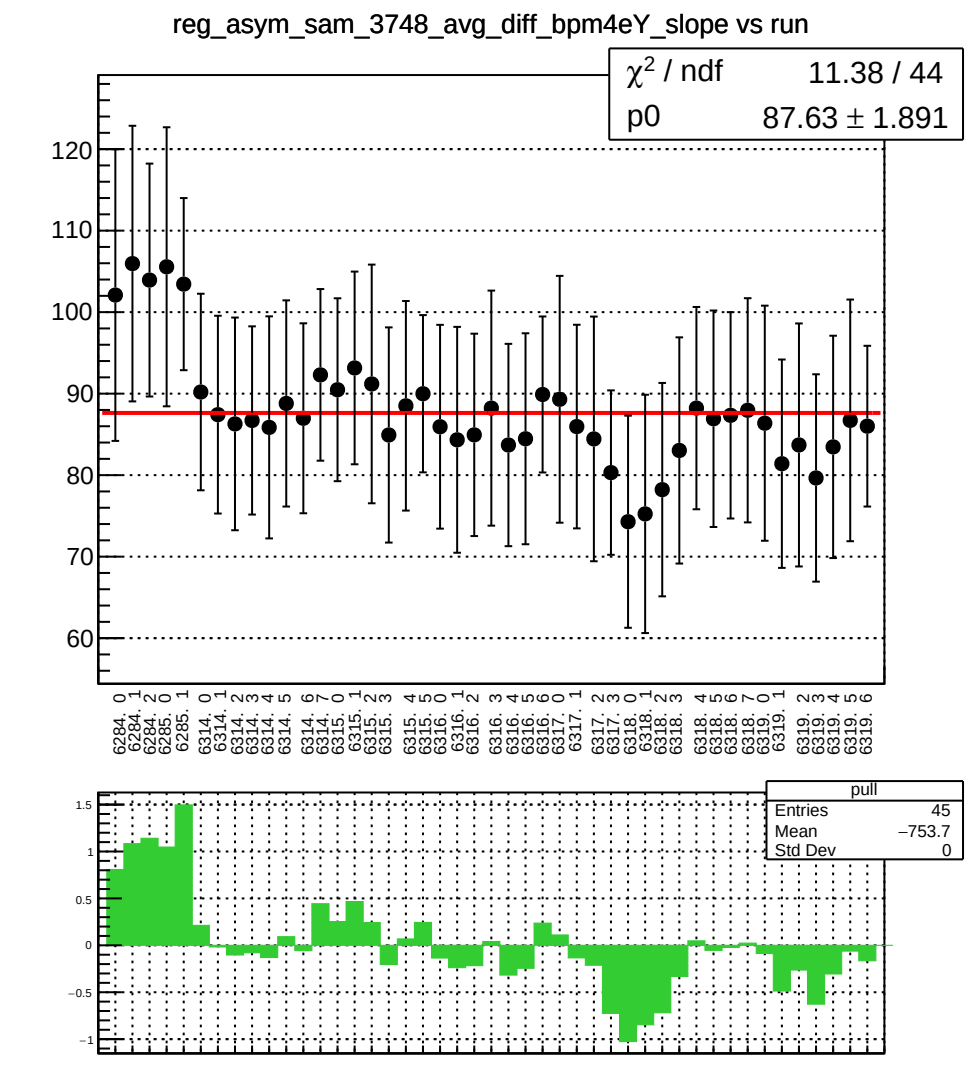

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 7.016 / 44
p0 1.268 ± 2.099
pull
Entries 45
Mean −264.3
Std Dev 0

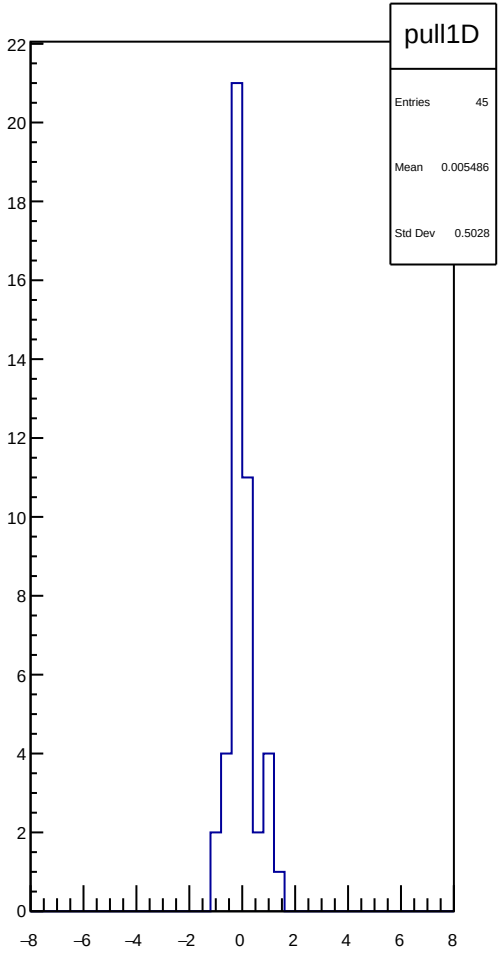

pull1D
Entries 45
Mean 0.005502
Std Dev 0.3948

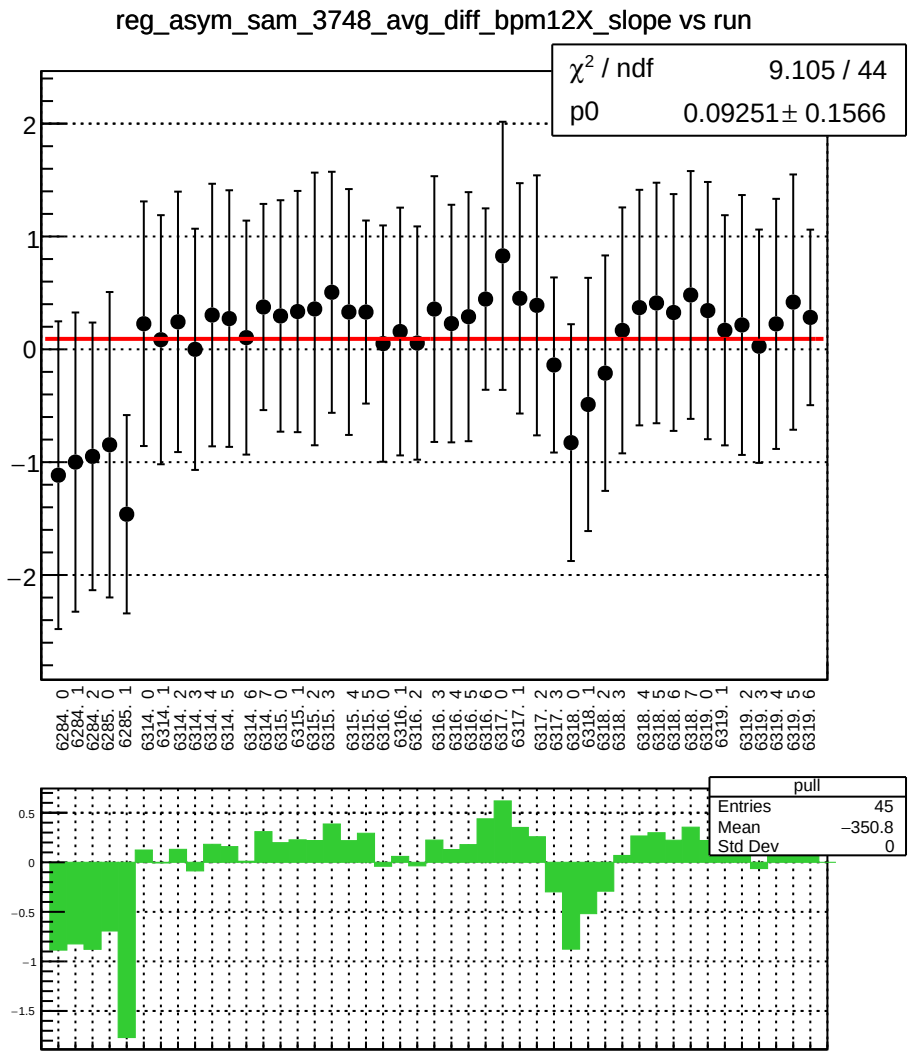

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.289 / 44
p0 −14.87 ± 1.533
pull
Entries 45
Mean −561.7
Std Dev 0

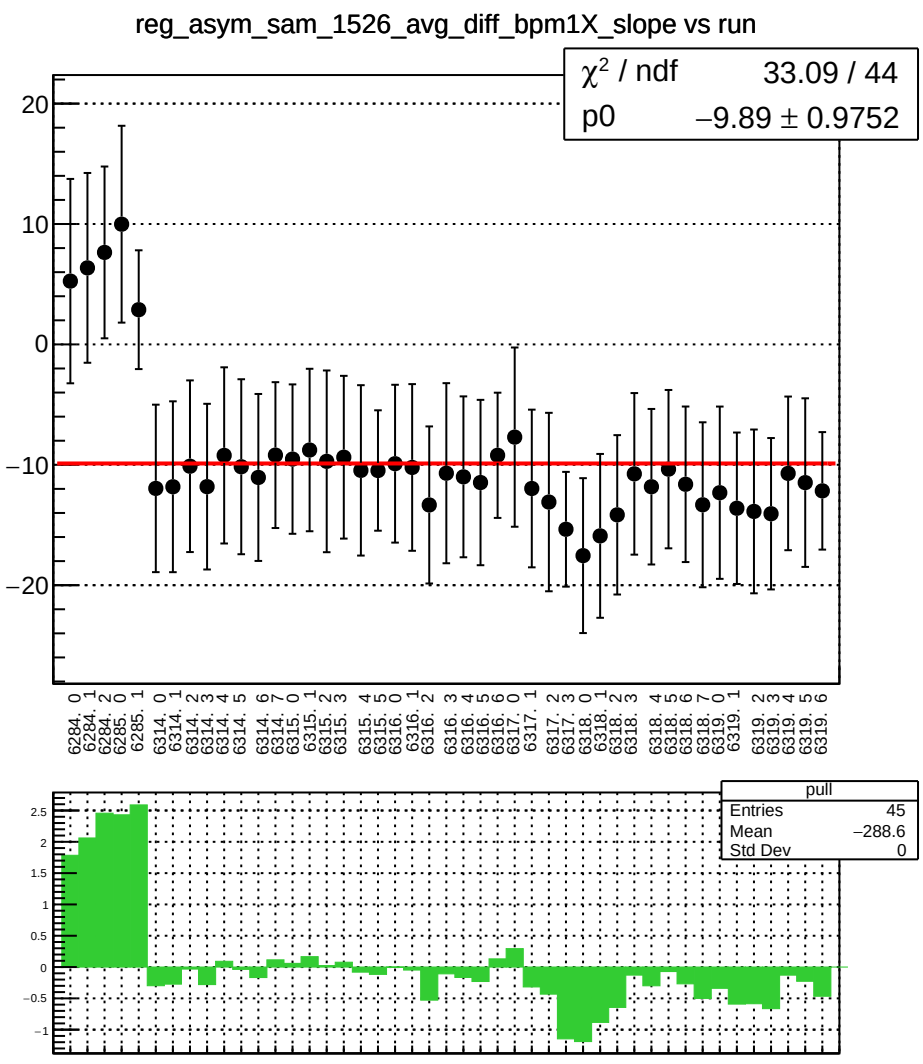

pull1D
Entries 45
Mean −0.005239
Std Dev 0.3738

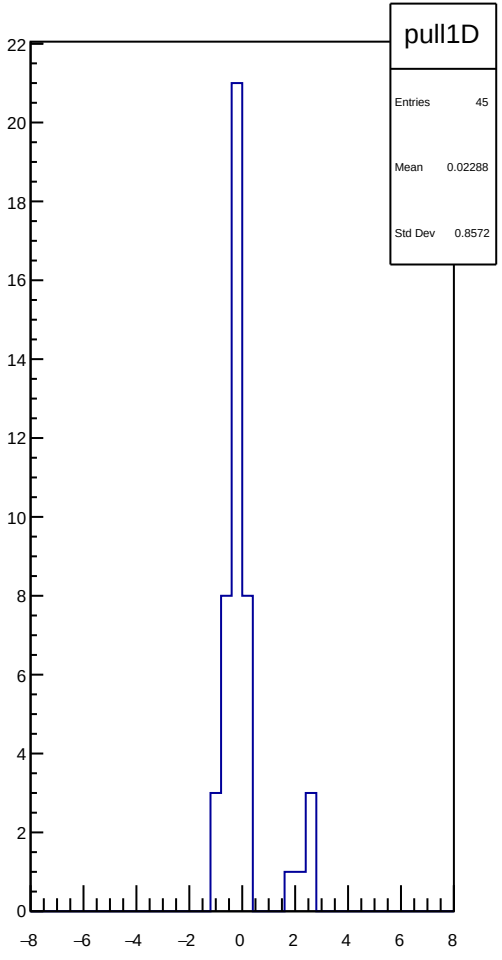

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.635 / 44
p0 −98.76 ± 2.151
pull
Entries 45
Mean −170.9
Std Dev 0
pull1D
Entries 45
Mean −0.007277
Std Dev 0.3538

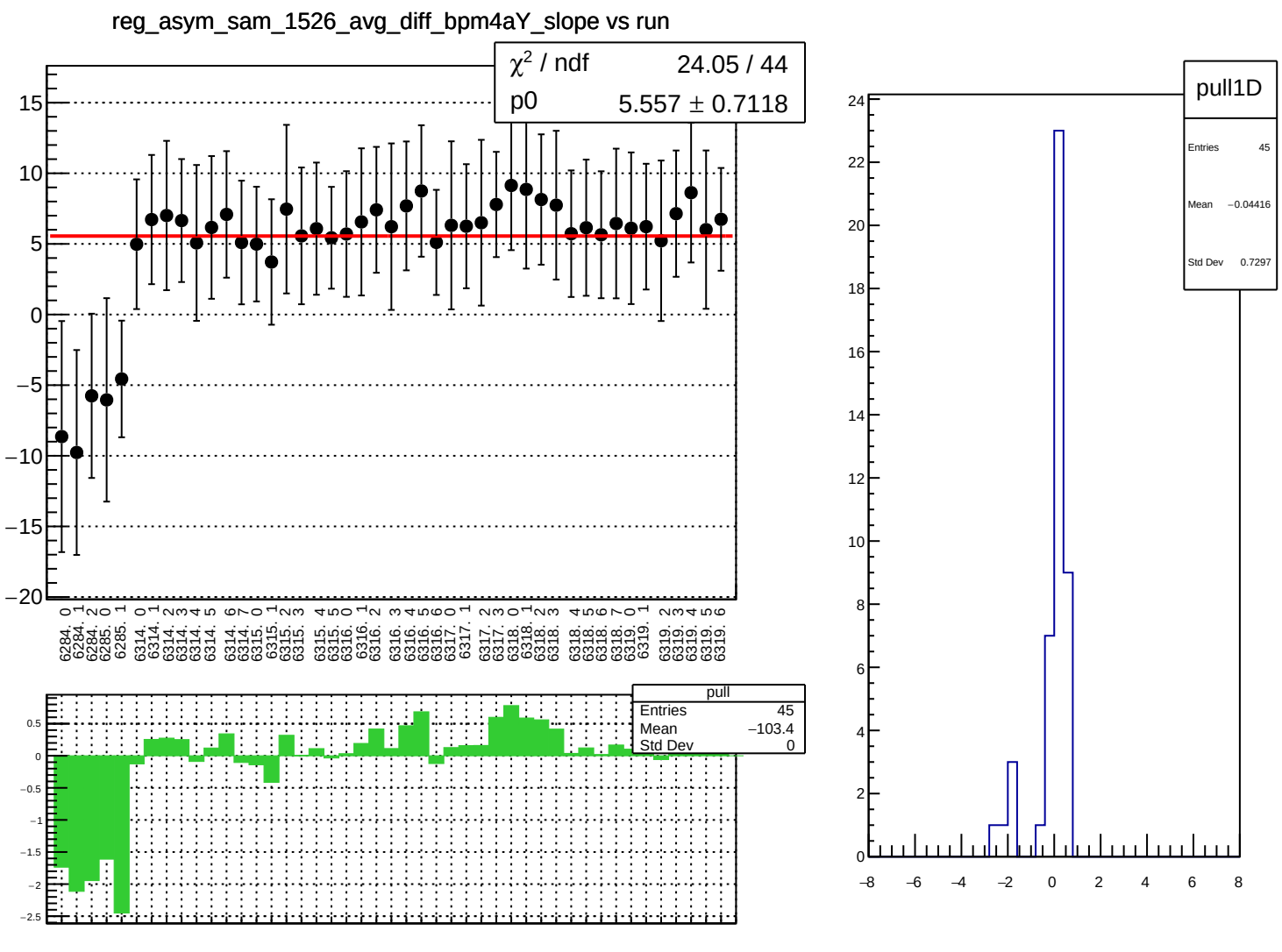

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.38 / 44
p0 87.63 ± 1.891
pull
Entries 45
Mean −753.7
Std Dev 0

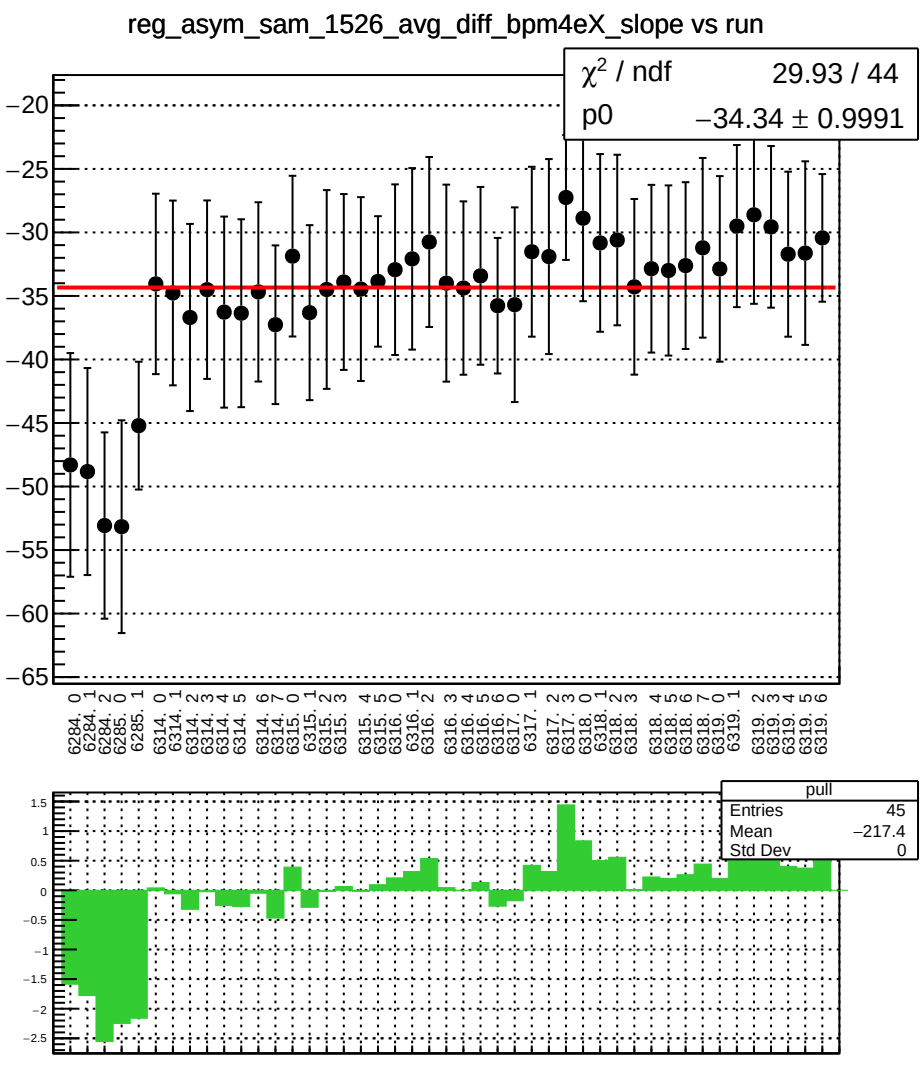

pull1D
Entries 45
Mean 0.005486
Std Dev 0.5028

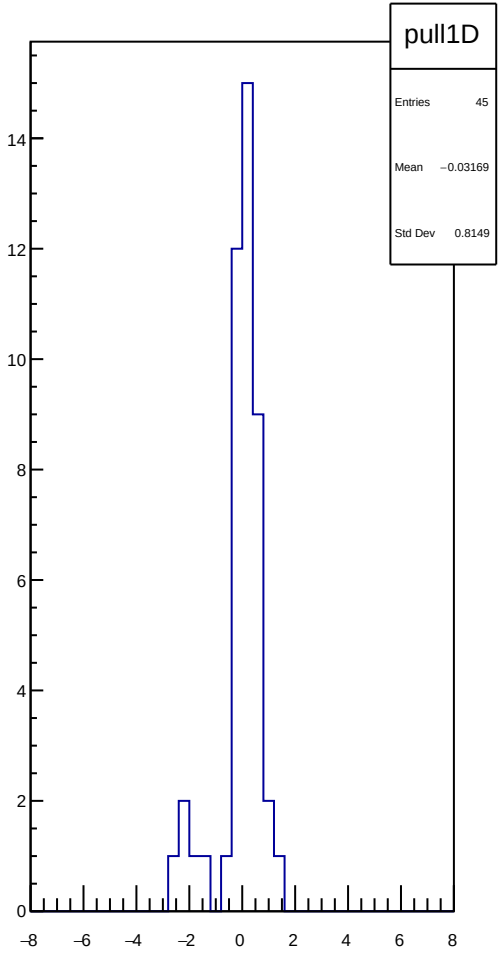

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 9.105 / 44
p0 0.09251 ± 0.1566
pull
Entries 45
Mean −350.8
Std Dev 0
pull1D
Entries 45
Mean −0.006309
Std Dev 0.4498

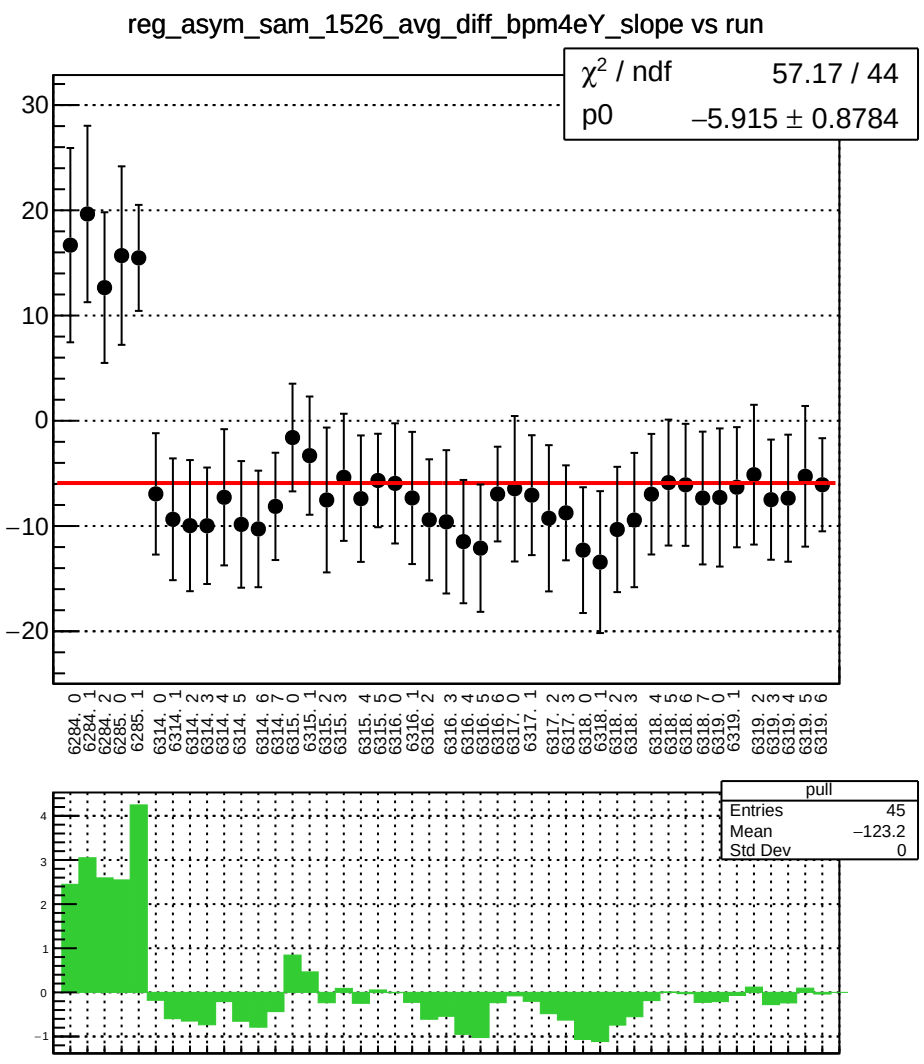

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 33.09 / 44
p0 −9.89 ± 0.9752
pull
Entries 45
Mean −288.6
Std Dev 0

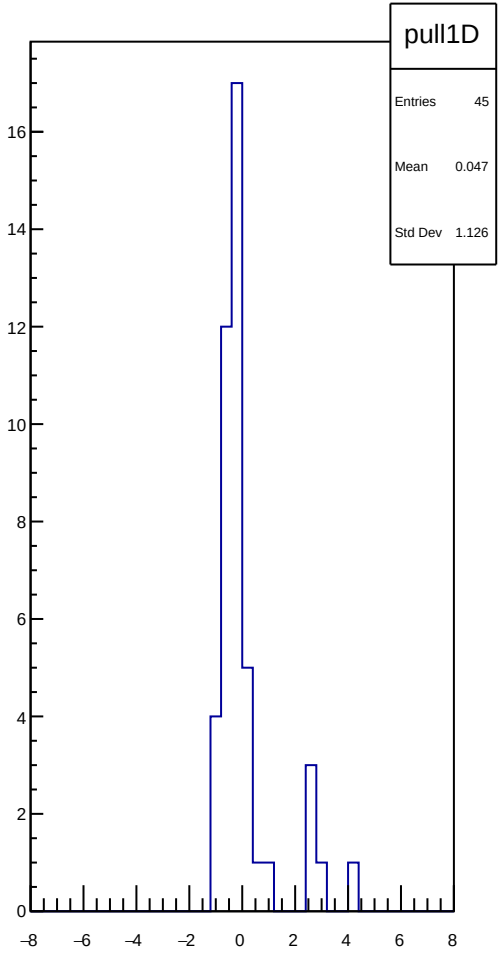

pull1D
Entries 45
Mean 0.02288
Std Dev 0.8572

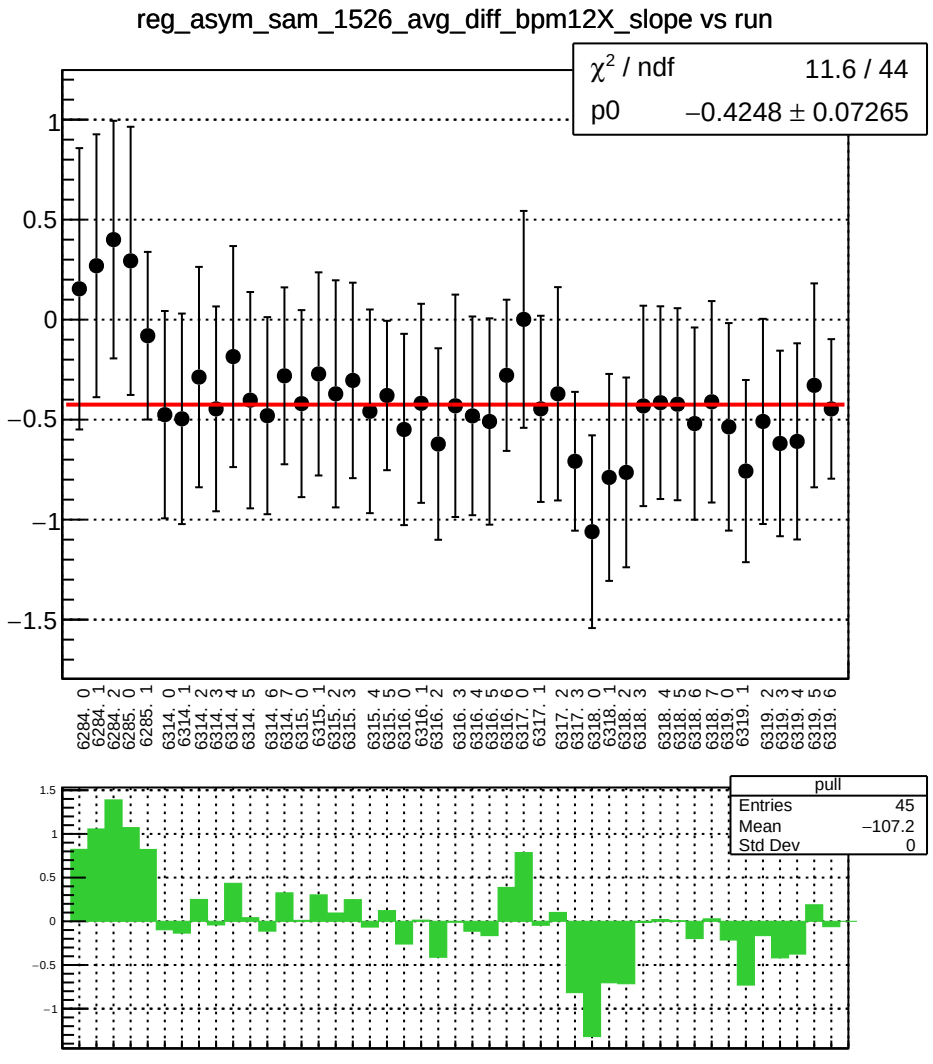

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.05 / 44
p0 5.557 ± 0.7118
pull
Entries 45
Mean −103.4
Std Dev 0
pull1D
Entries 45
Mean −0.04416
Std Dev 0.7297

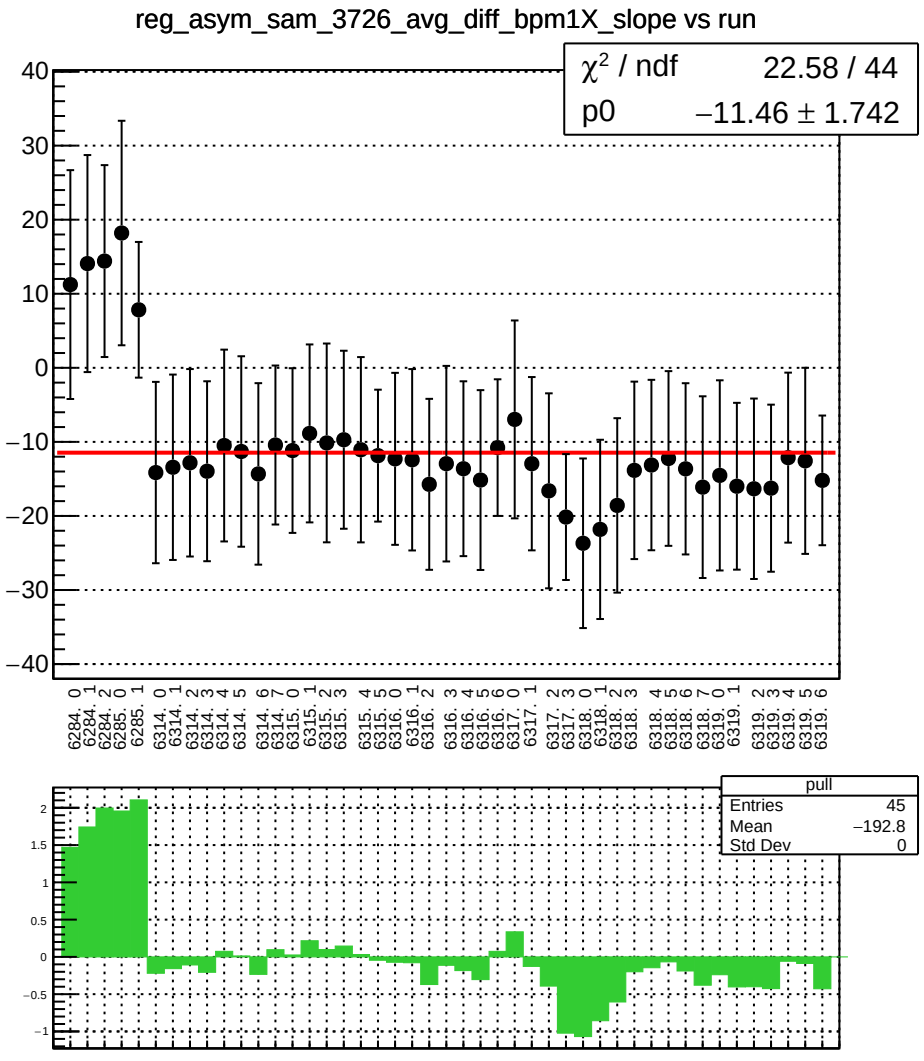

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.93 / 44
p0 −34.34 ± 0.9991
pull
Entries 45
Mean −217.4
Std Dev 0

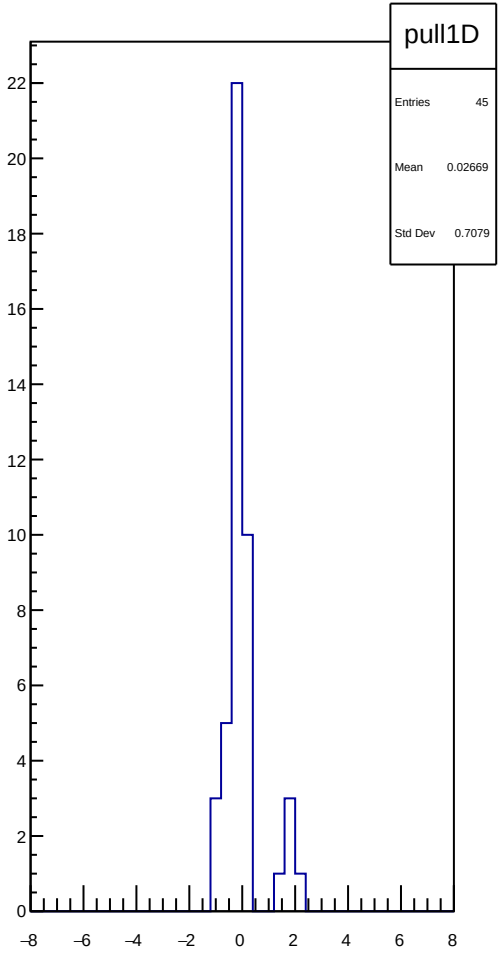

pull1D
Entries 45
Mean −0.03169
Std Dev 0.8149

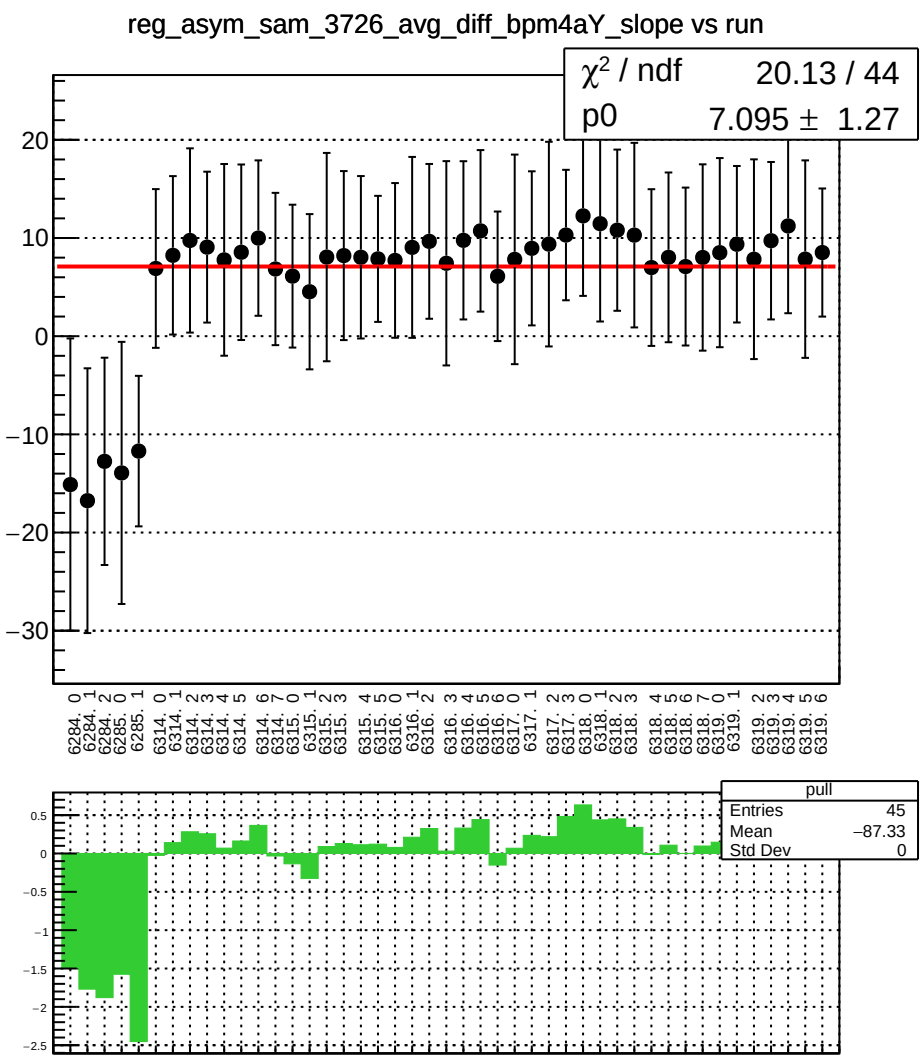

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.17 / 44
p0 −5.915 ± 0.8784
pull
Entries 45
Mean −123.2
Std Dev 0

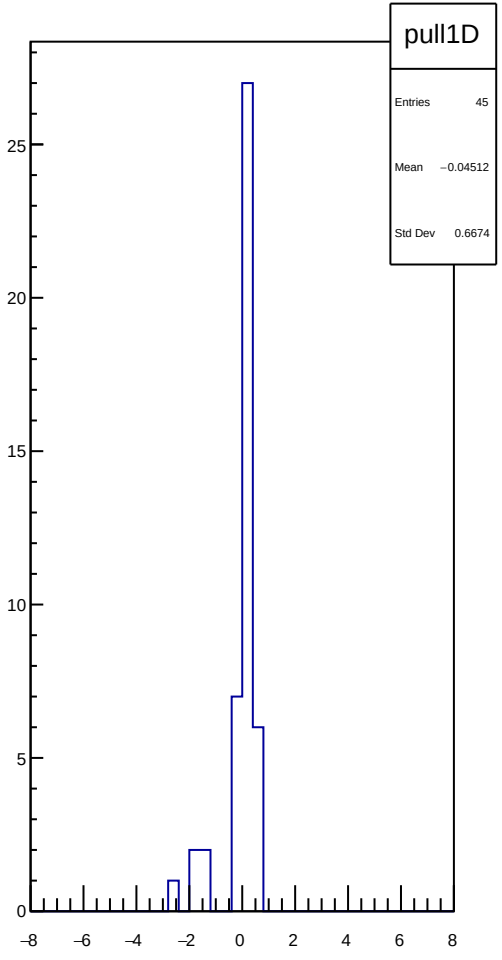

pull1D
Entries 45
Mean 0.047
Std Dev 1.126

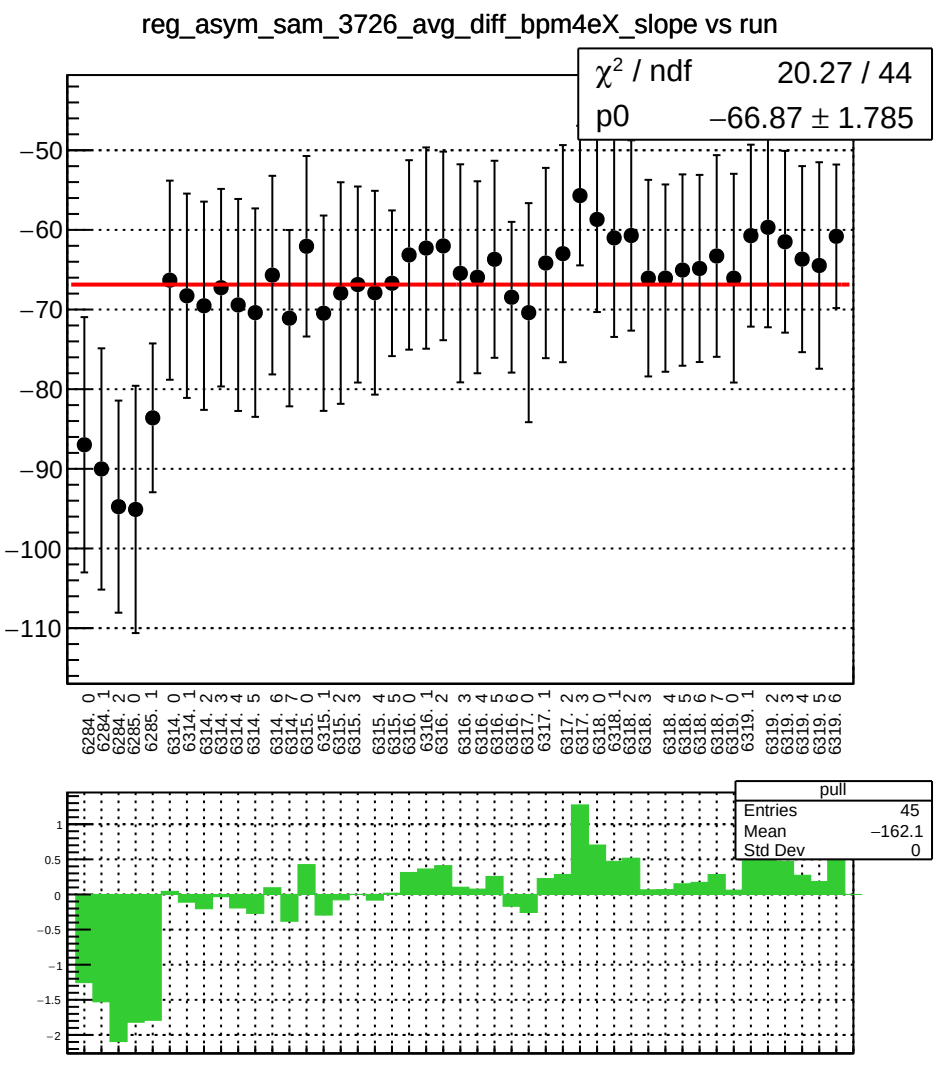

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 11.6 / 44
p0 −0.4248 ± 0.07265
pull
Entries 45
Mean −107.2
Std Dev 0
pull1D
Entries 45
Mean 0.02976
Std Dev 0.5068

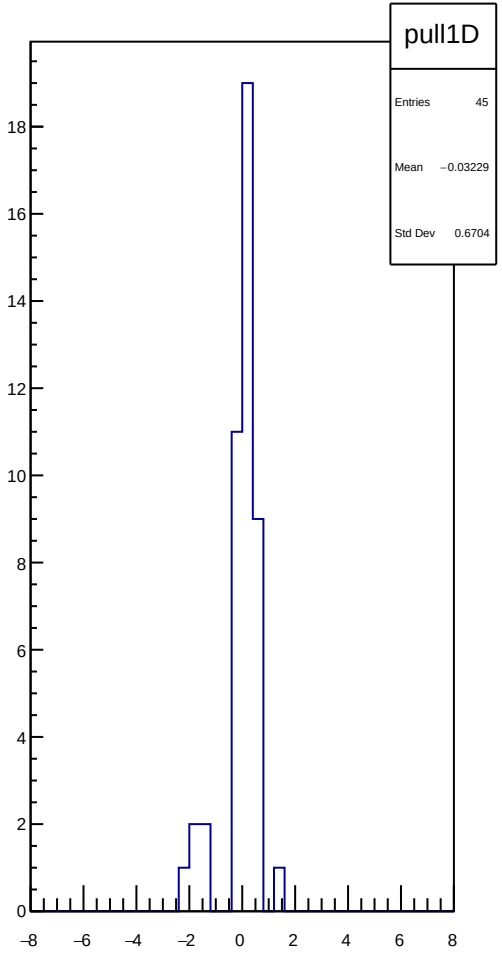

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 22.58 / 44
p0 −11.46 ± 1.742
pull
Entries 45
Mean −192.8
Std Dev 0

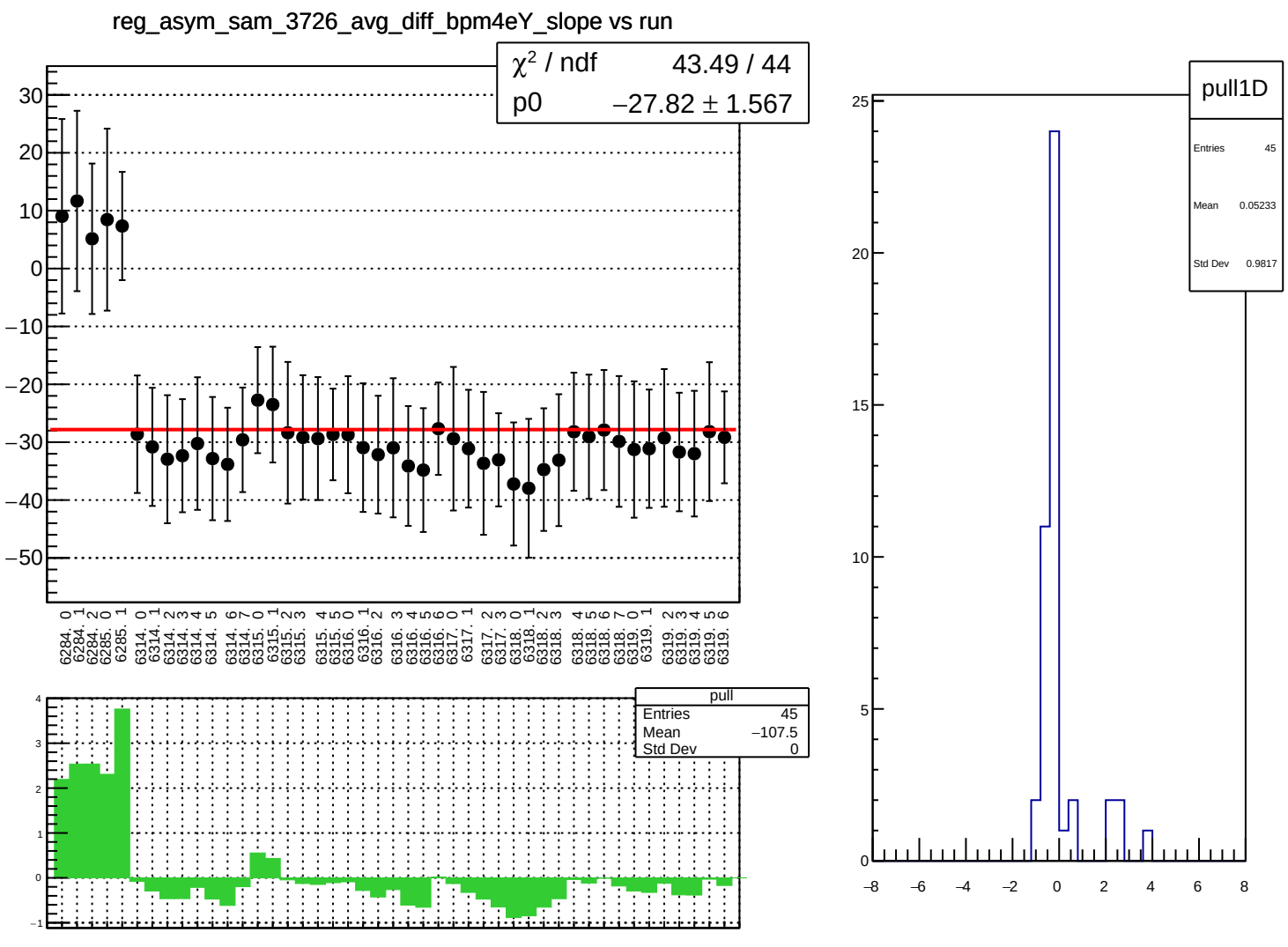

pull1D
Entries 45
Mean 0.02669
Std Dev 0.7079

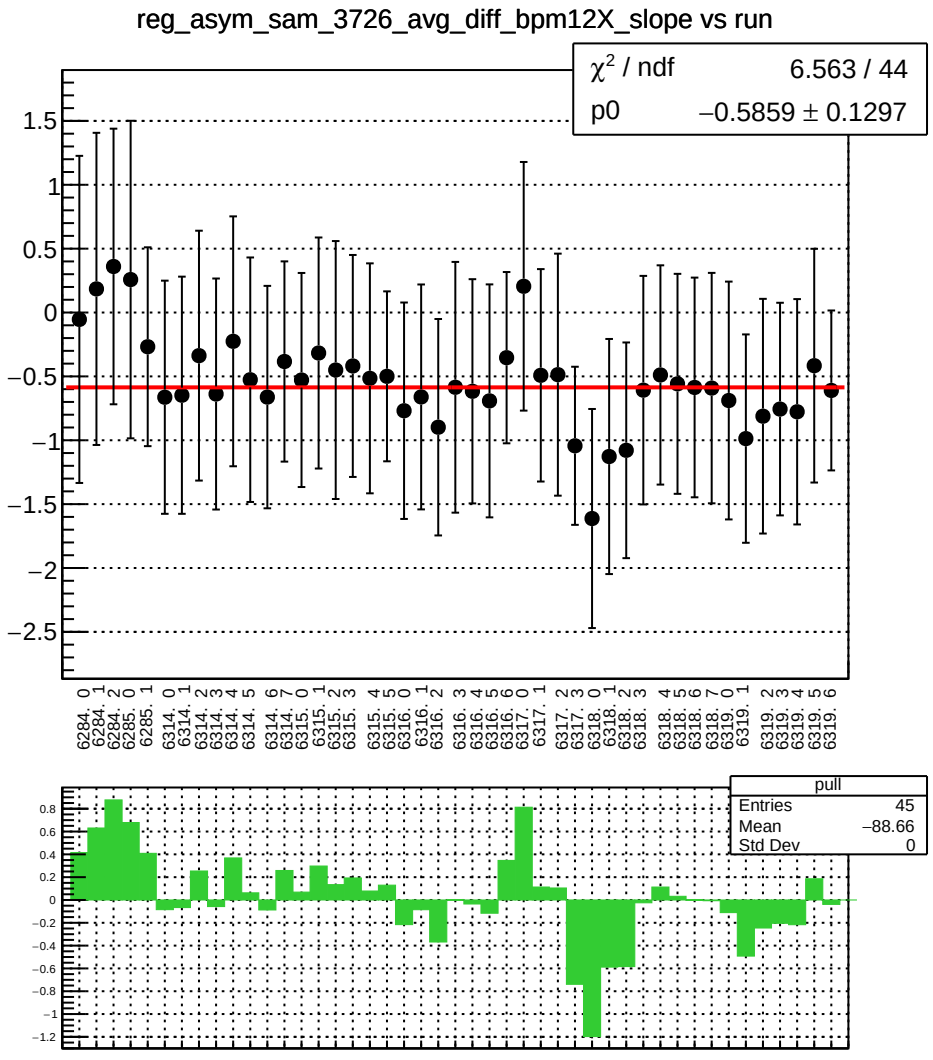

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.13 / 44
p0 7.095 ± 1.27
pull
Entries 45
Mean −87.33
Std Dev 0

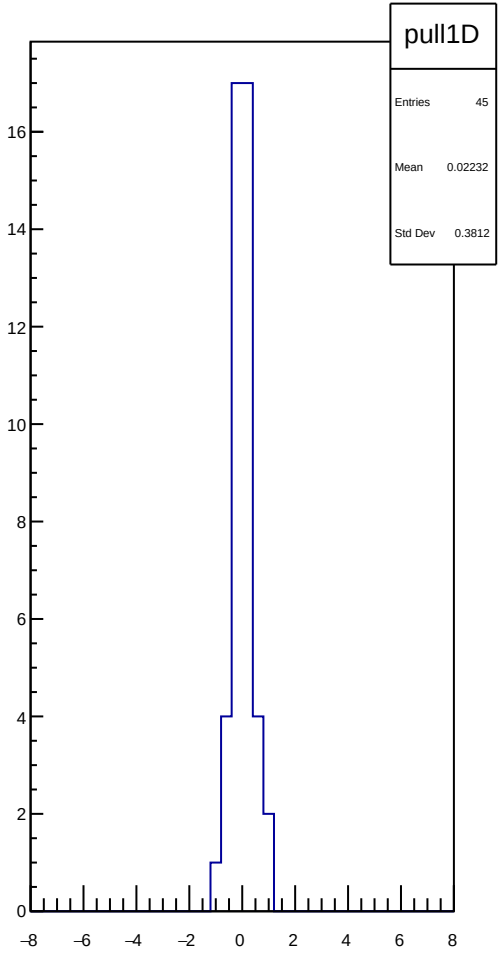

pull1D
Entries 45
Mean −0.04512
Std Dev 0.6674

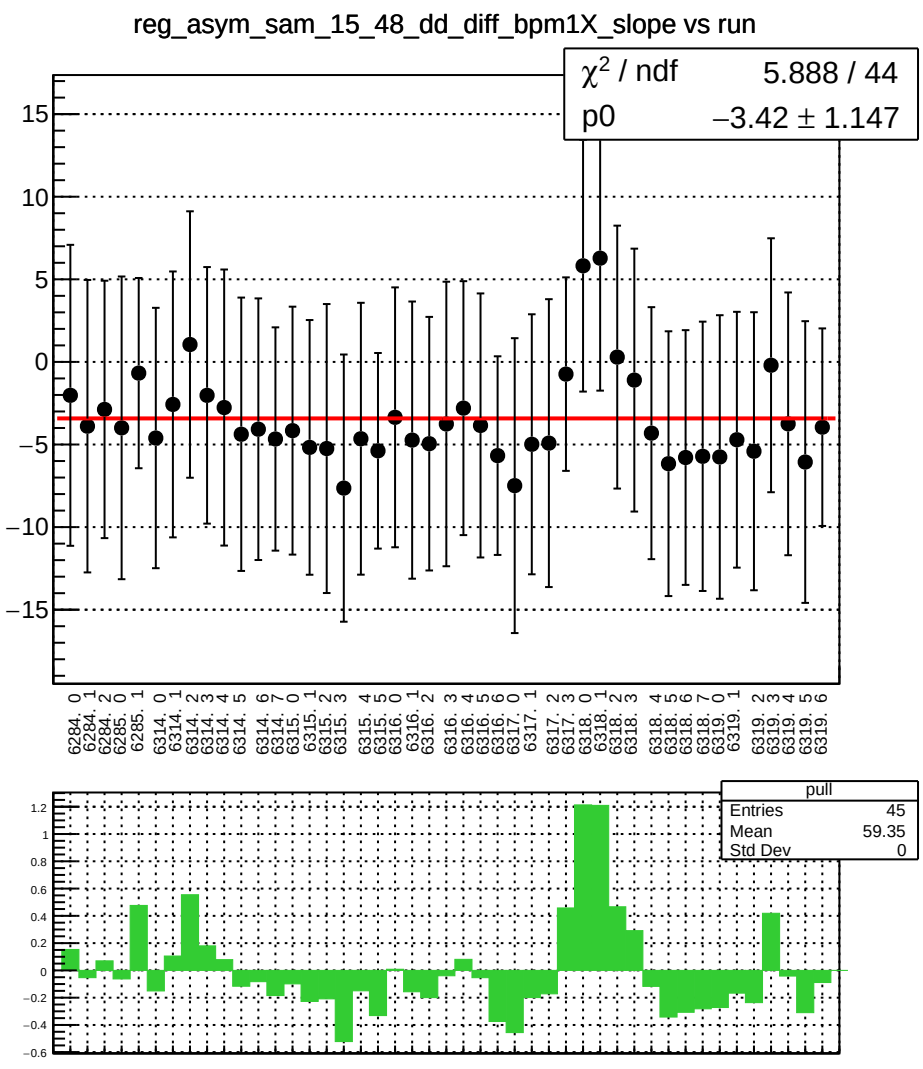

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.27 / 44
p0 −66.87 ± 1.785
−50
−60
−70
−80
−90
−100
−110
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −162.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

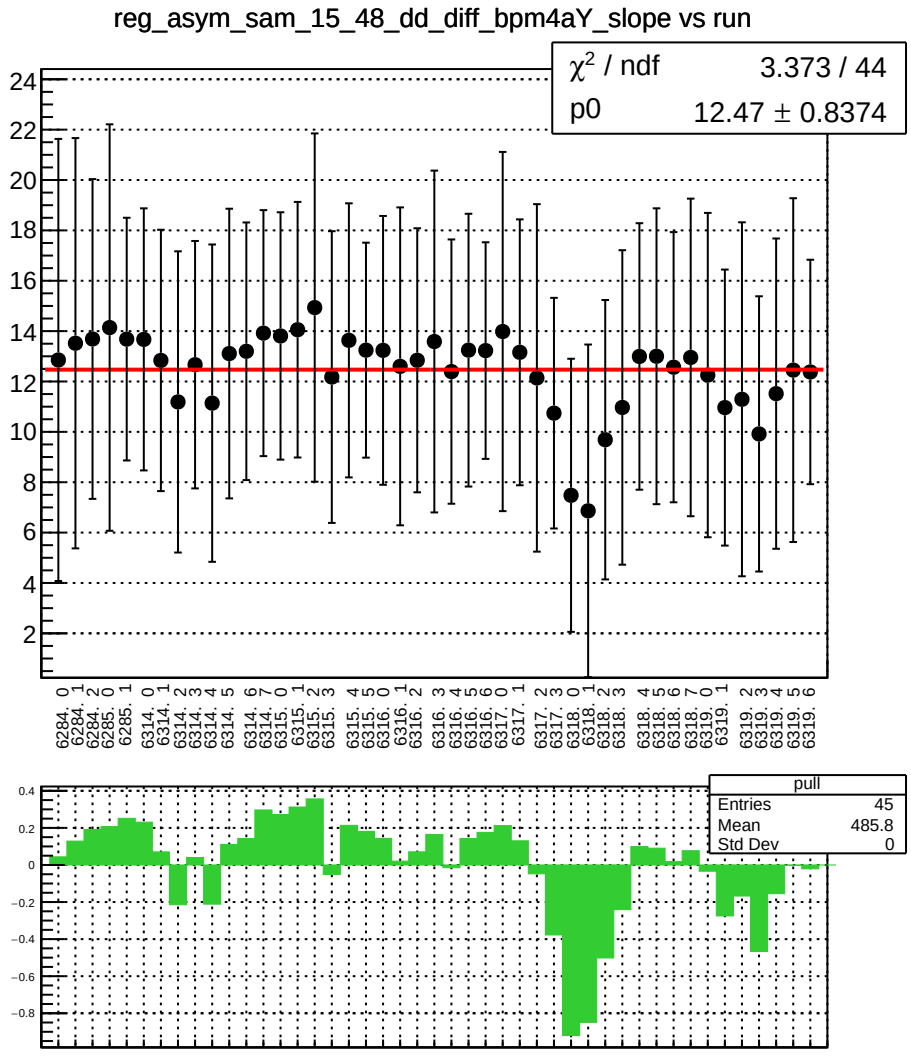

pull1D
Entries 45
Mean −0.03229
Std Dev 0.6704
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

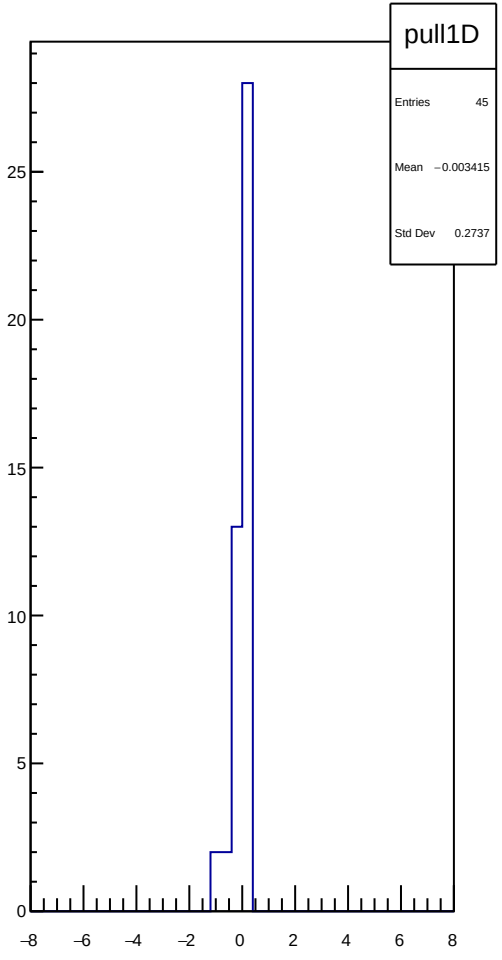

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.49 / 44
p0 −27.82 ± 1.567
pull
Entries 45
Mean −107.5
Std Dev 0
pull1D
Entries 45
Mean 0.05233
Std Dev 0.9817

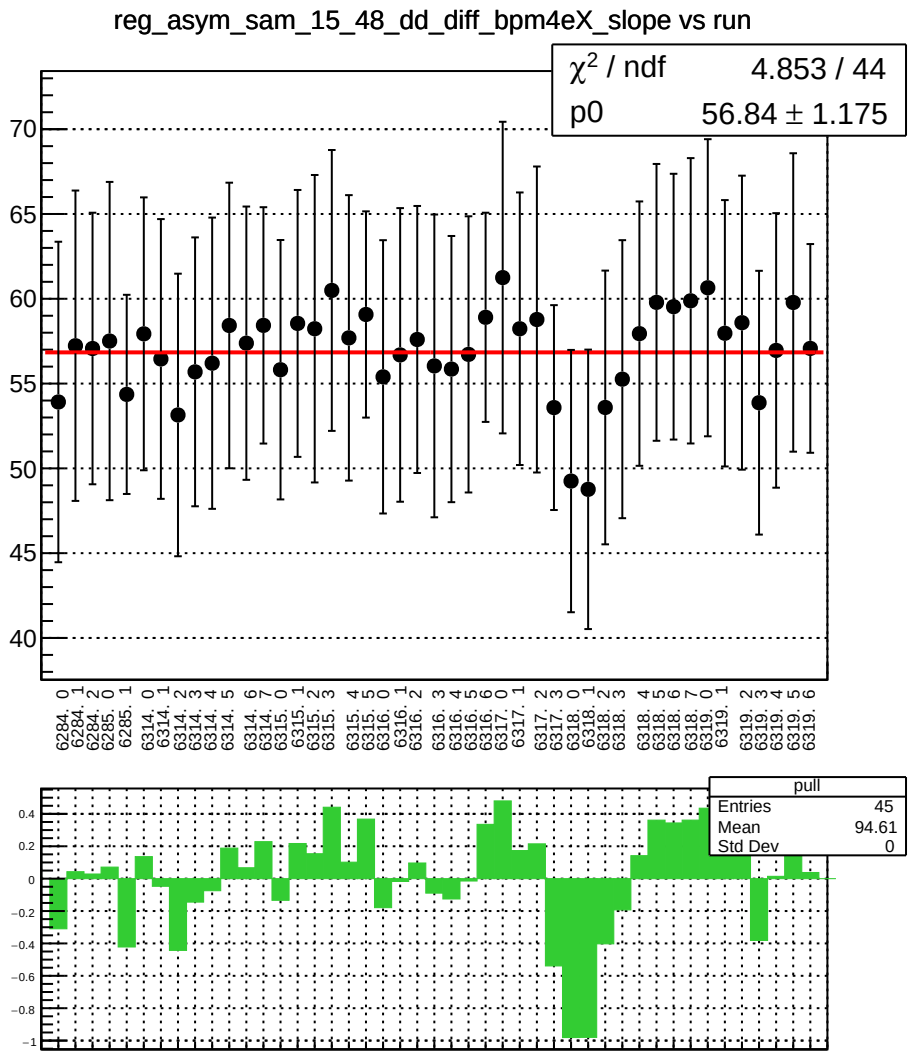

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 6.563 / 44
p0 −0.5859 ± 0.1297
pull
Entries 45
Mean −88.66
Std Dev 0

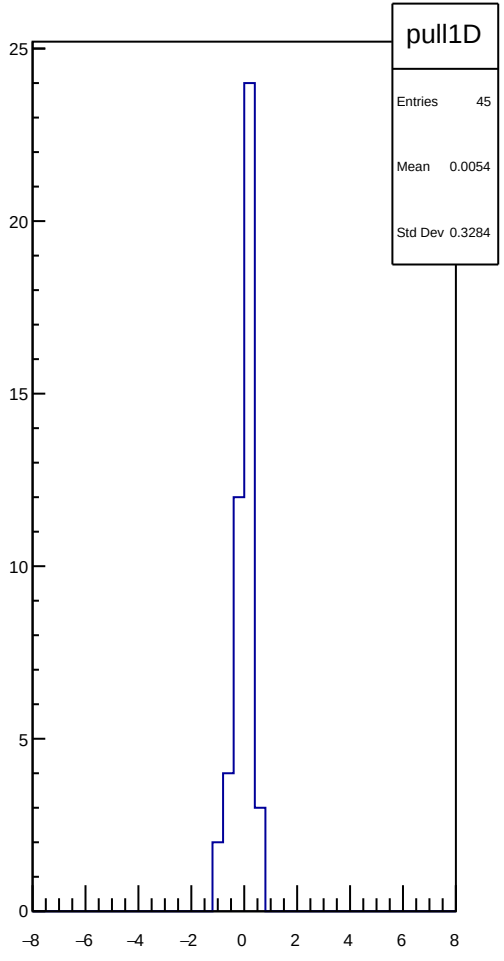

pull1D
Entries 45
Mean 0.02232
Std Dev 0.3812

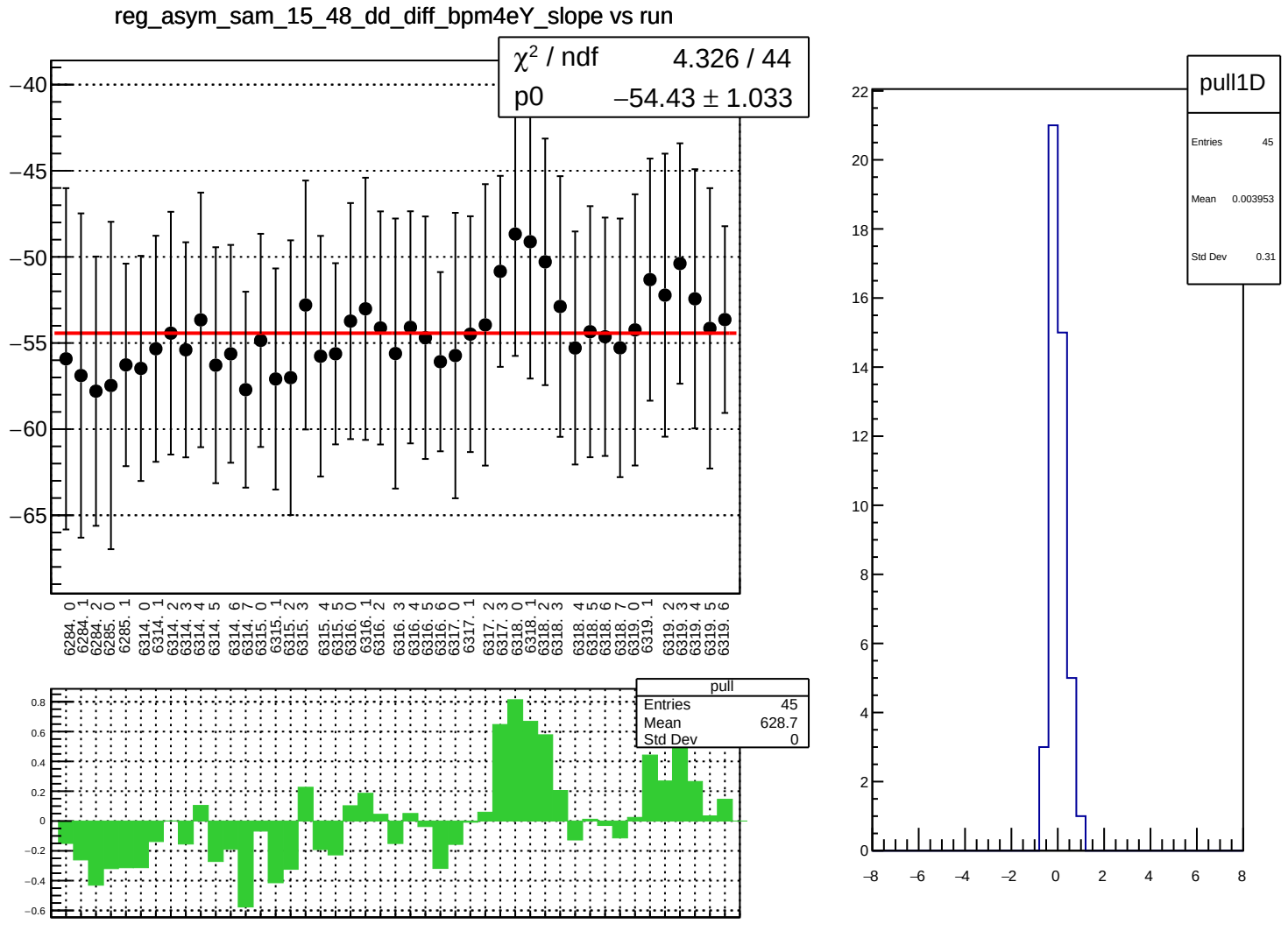

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.888 / 44
p0 −3.42 ± 1.147
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 59.35
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.005124
Std Dev 0.3617
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

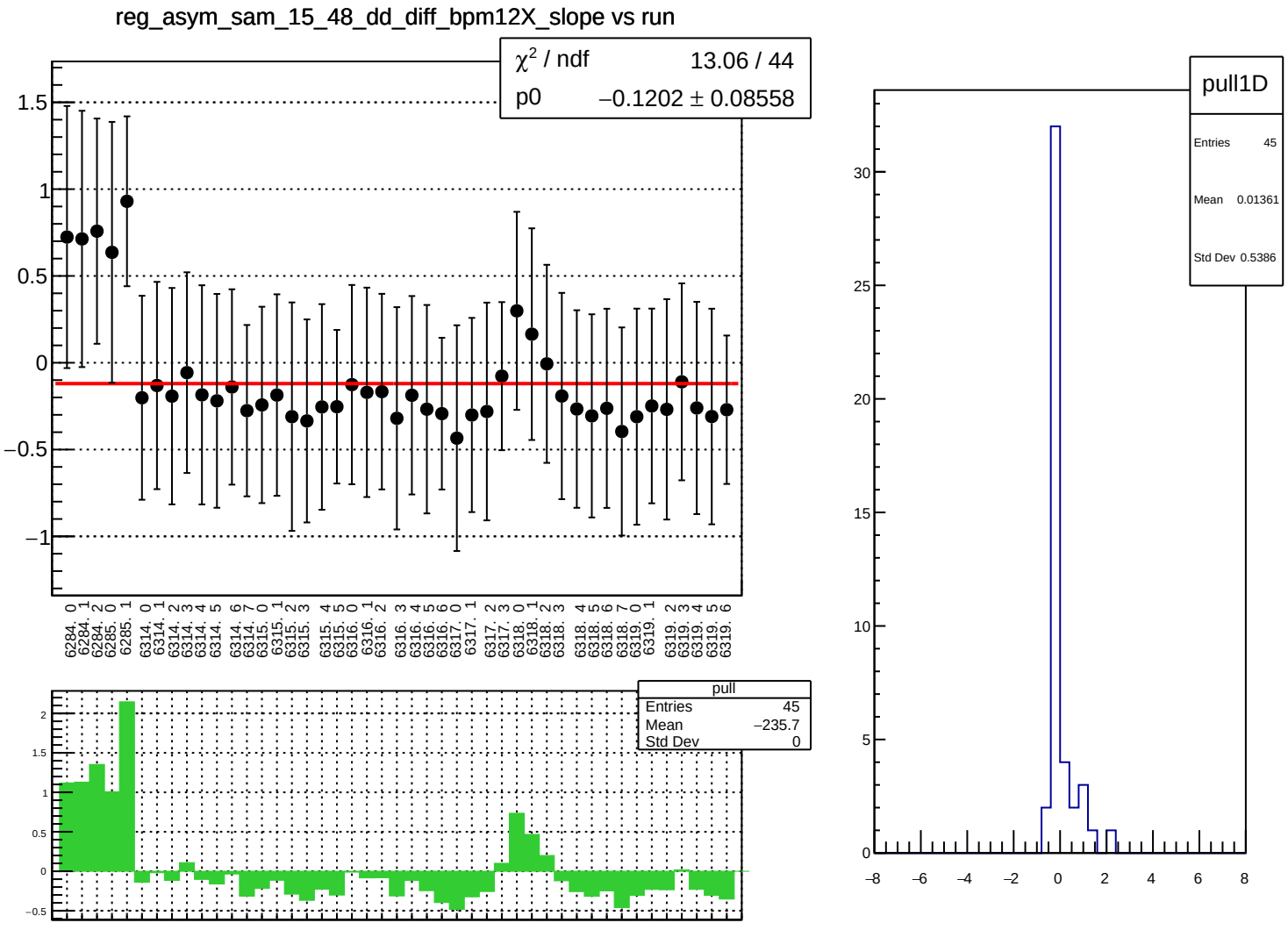

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.373 / 44
p0 12.47 ± 0.8374
pull
Entries 45
Mean 485.8
Std Dev 0

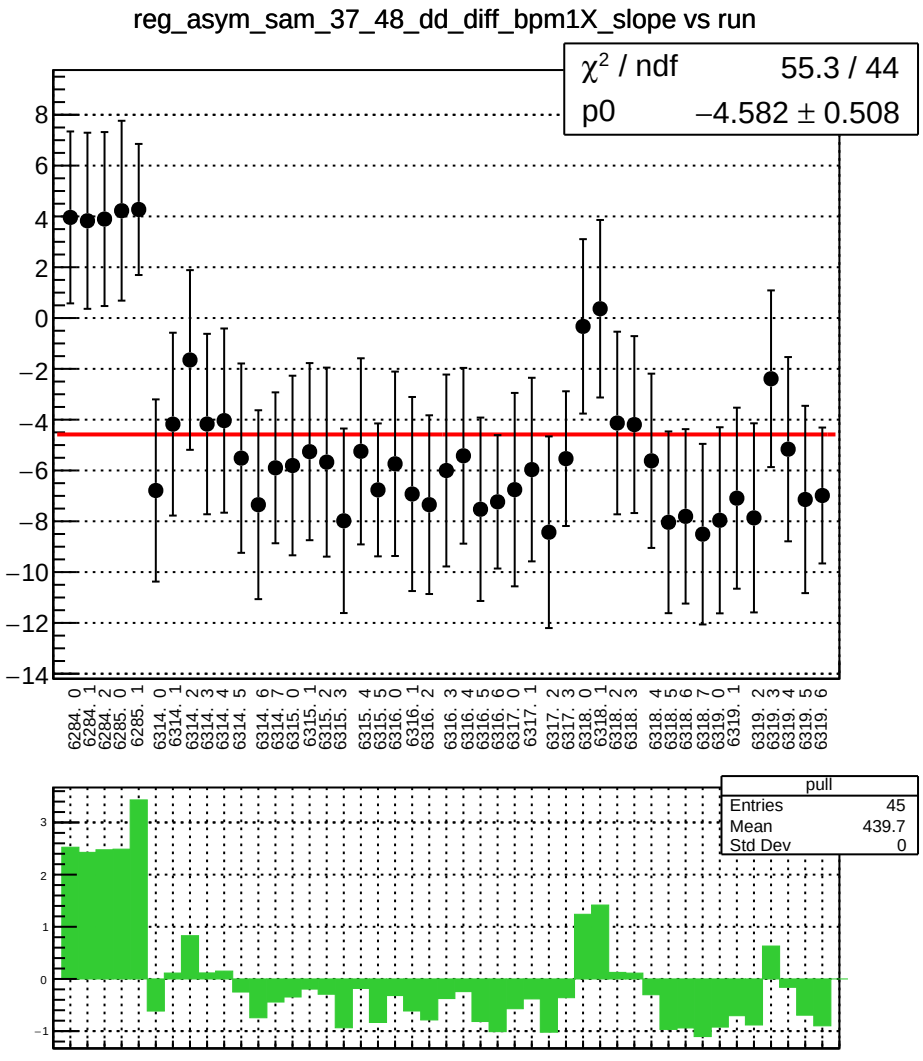

pull1D
Entries 45
Mean −0.003415
Std Dev 0.2737

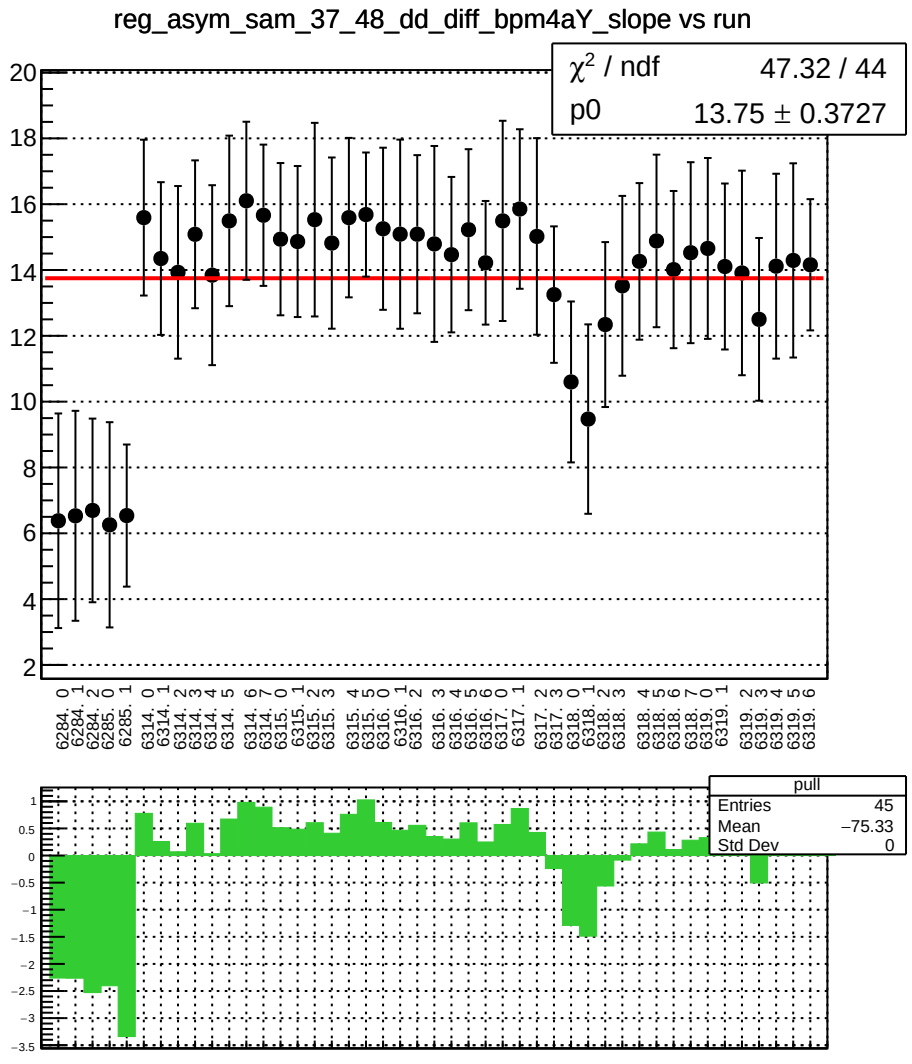

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.853 / 44
p0 56.84 ± 1.175
pull
Entries 45
Mean 94.61
Std Dev 0

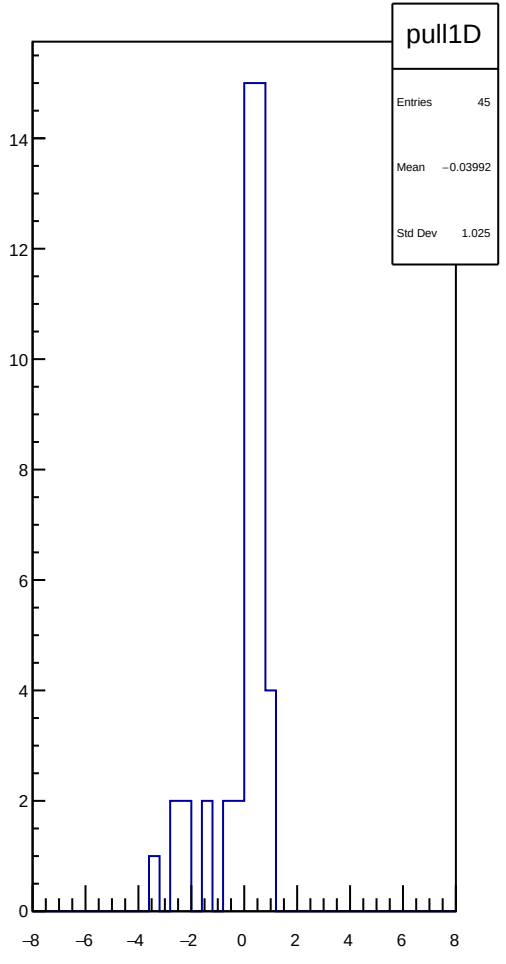

pull1D
Entries 45
Mean 0.0054
Std Dev 0.3284

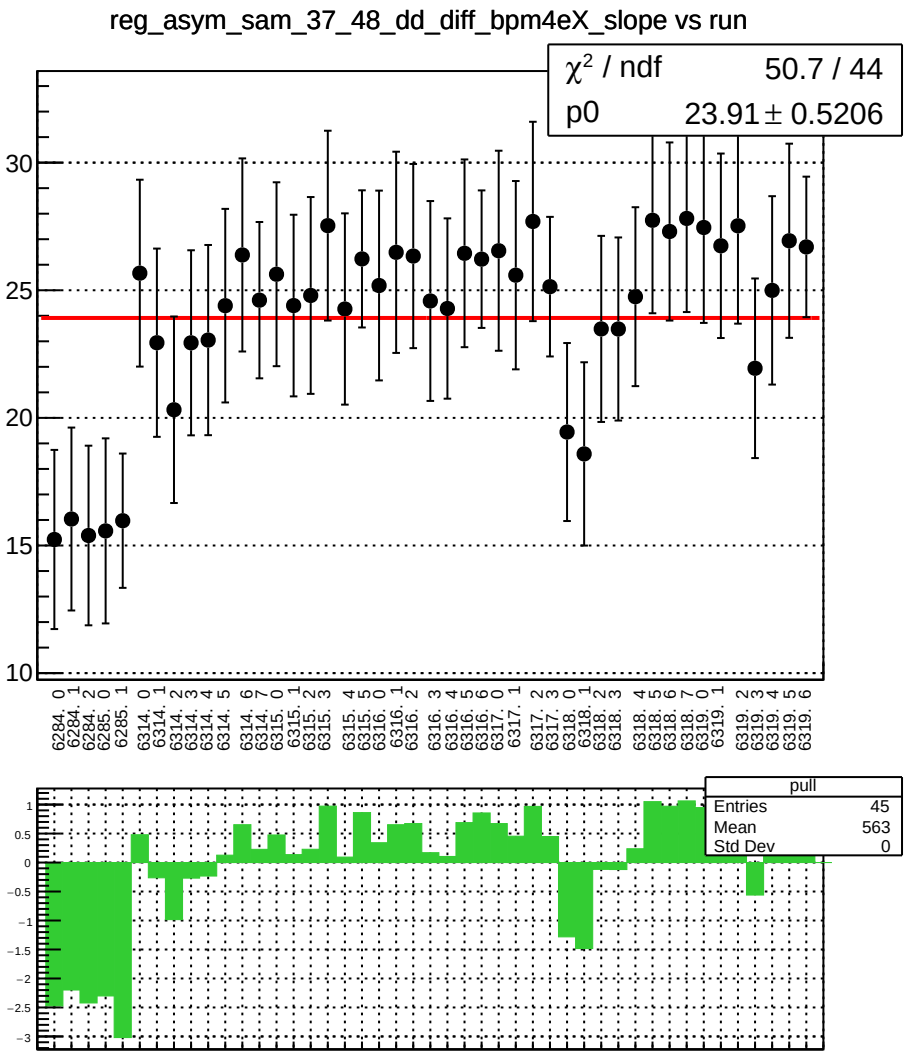

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.326 / 44
p0 −54.43 ± 1.033
−40
−45
−50
−55
−60
−65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 628.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.003953
Std Dev 0.31
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

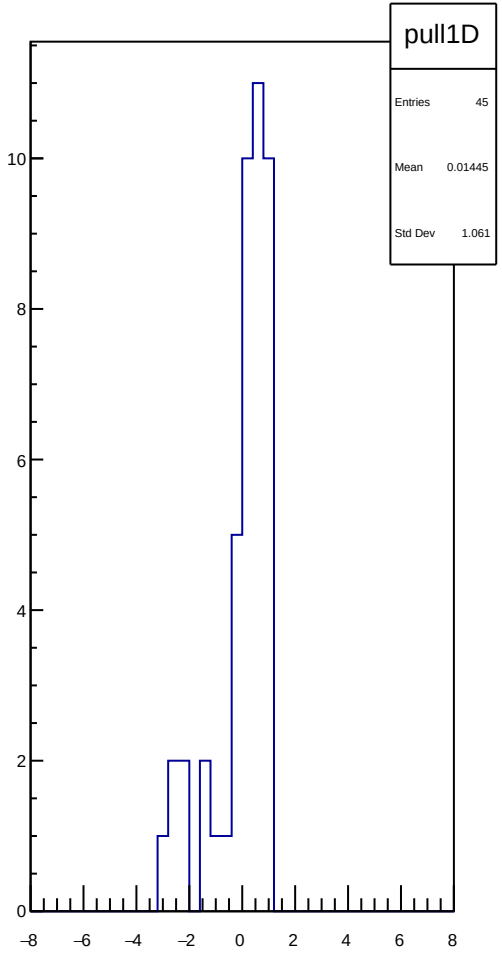

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.06 / 44
p0 −0.1202 ± 0.08558
pull
Entries 45
Mean −235.7
Std Dev 0
pull1D
Entries 45
Mean 0.01361
Std Dev 0.5386

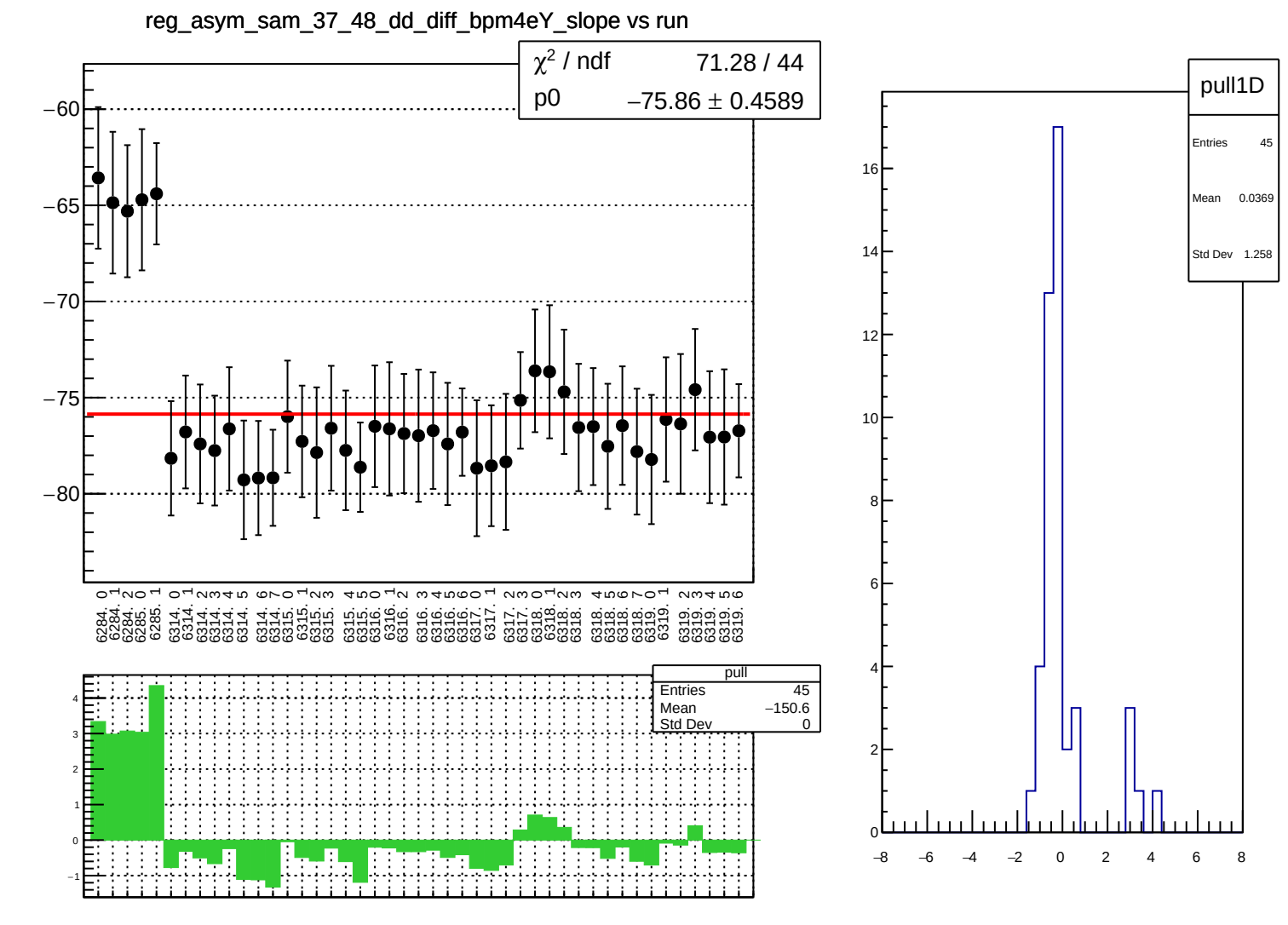

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 55.3 / 44
p0 −4.582 ± 0.508
pull
Entries 45
Mean 439.7
Std Dev 0
pull1D
Entries 45
Mean −0.01832
Std Dev 1.108

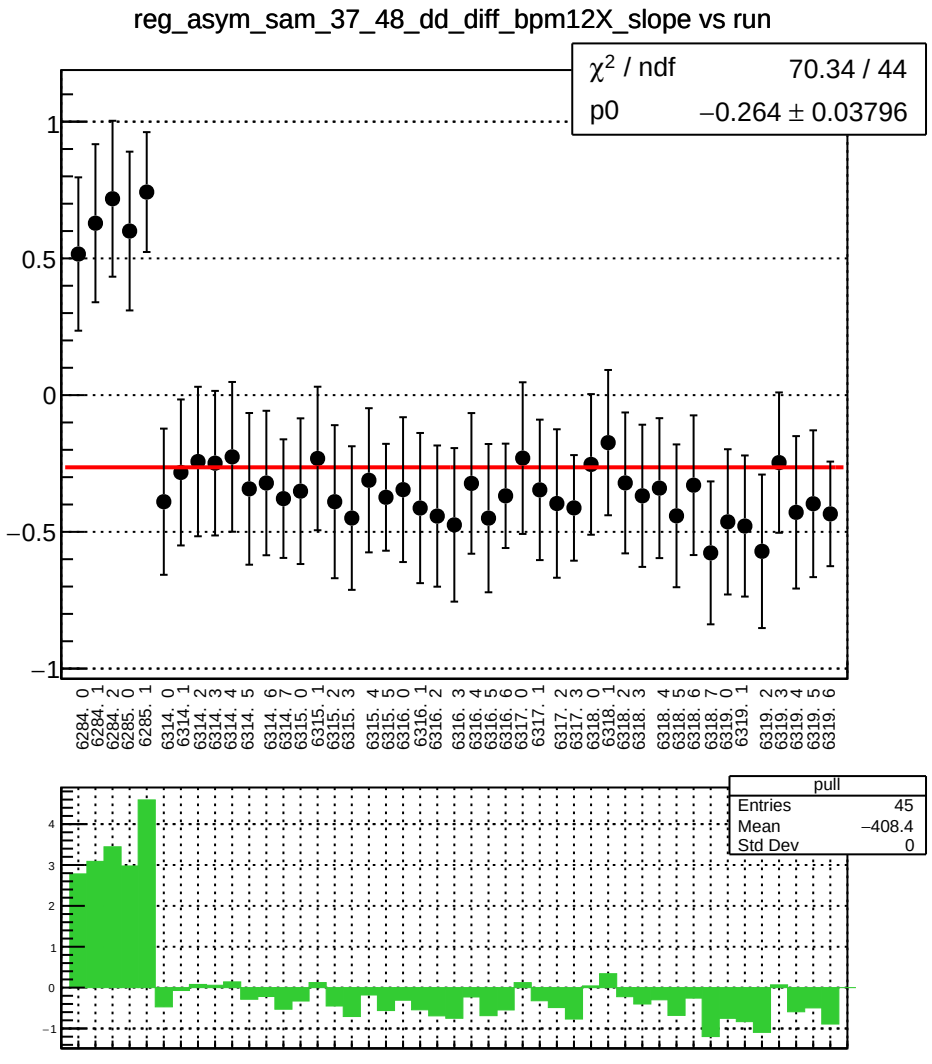

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.32 / 44
p0 13.75 ± 0.3727
pull
Entries 45
Mean −75.33
Std Dev 0

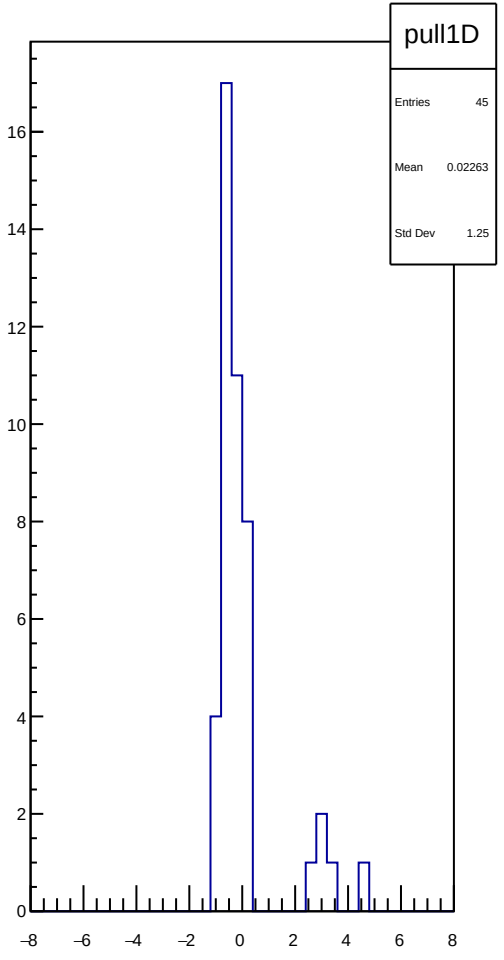

pull1D
Entries 45
Mean −0.03992
Std Dev 1.025

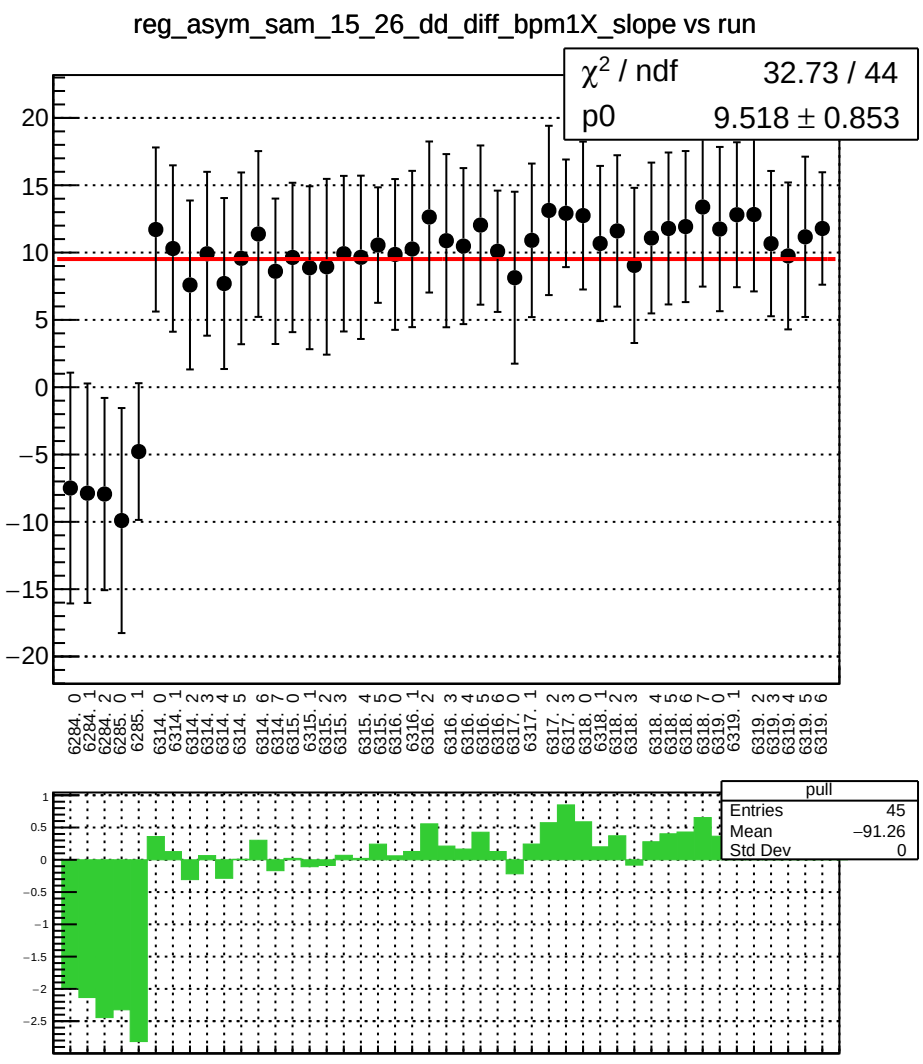

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.7 / 44
p0 23.91 ± 0.5206
pull
Entries 45
Mean 563
Std Dev 0

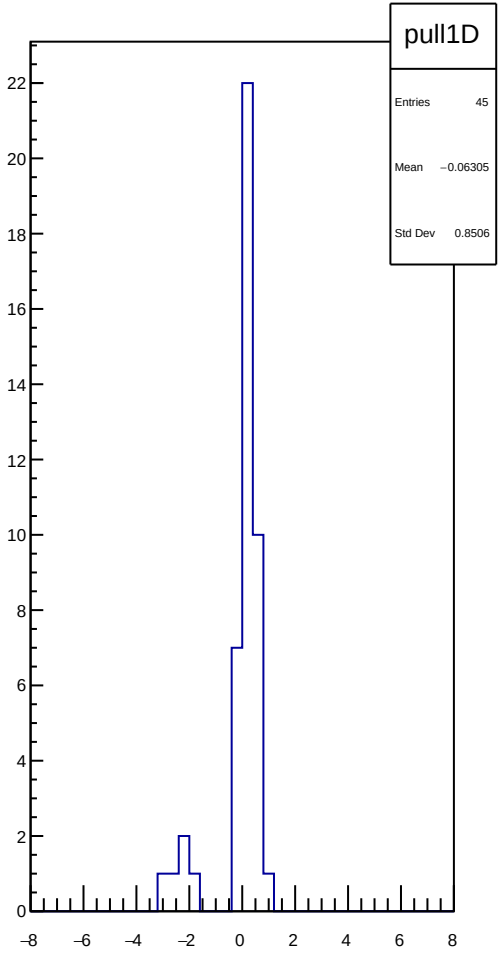

pull1D
Entries 45
Mean 0.01445
Std Dev 1.061

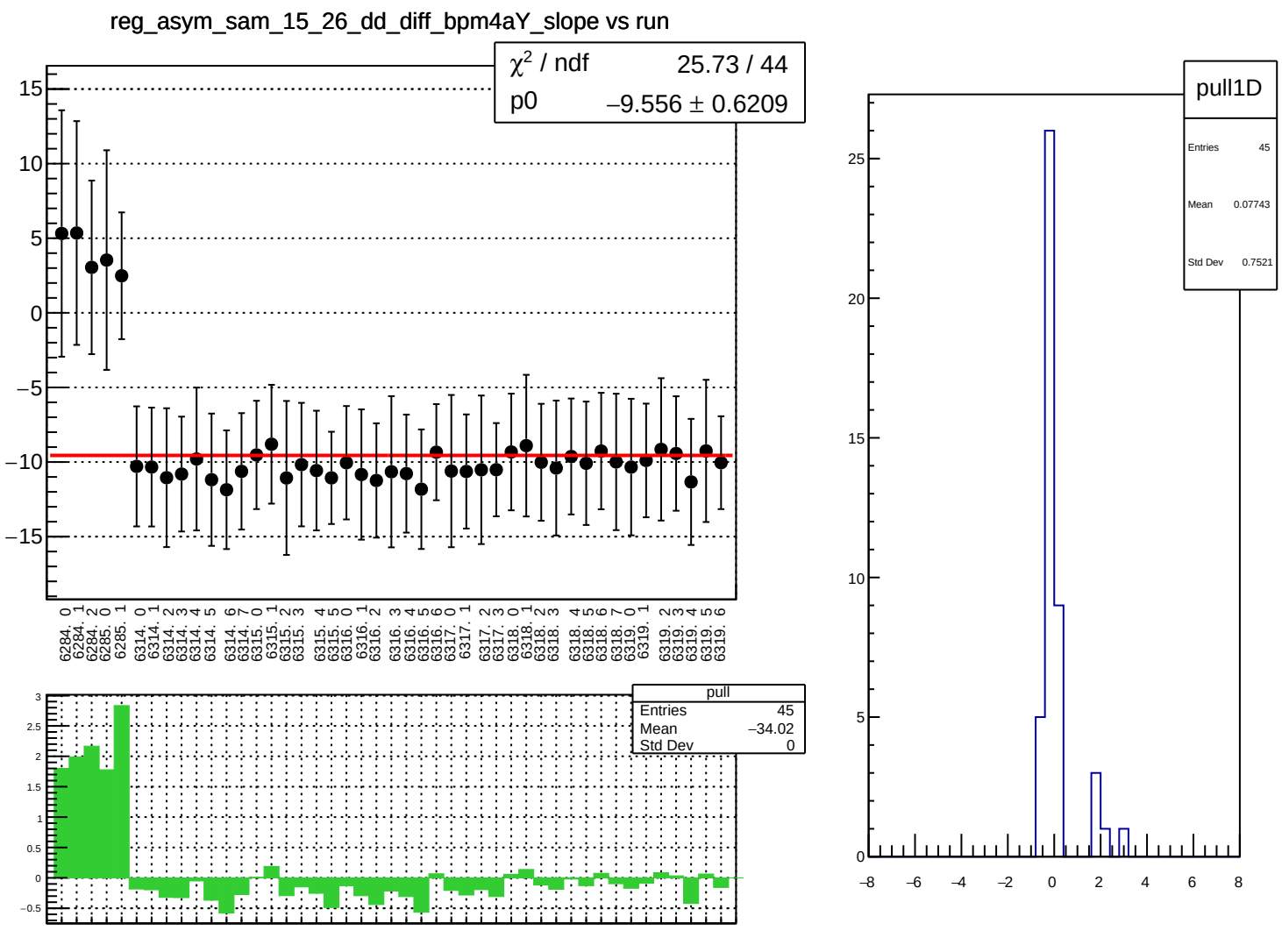

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.28 / 44
p0 −75.86 ± 0.4589
pull
Entries 45
Mean −150.6
Std Dev 0
pull1D
Entries 45
Mean 0.0369
Std Dev 1.258

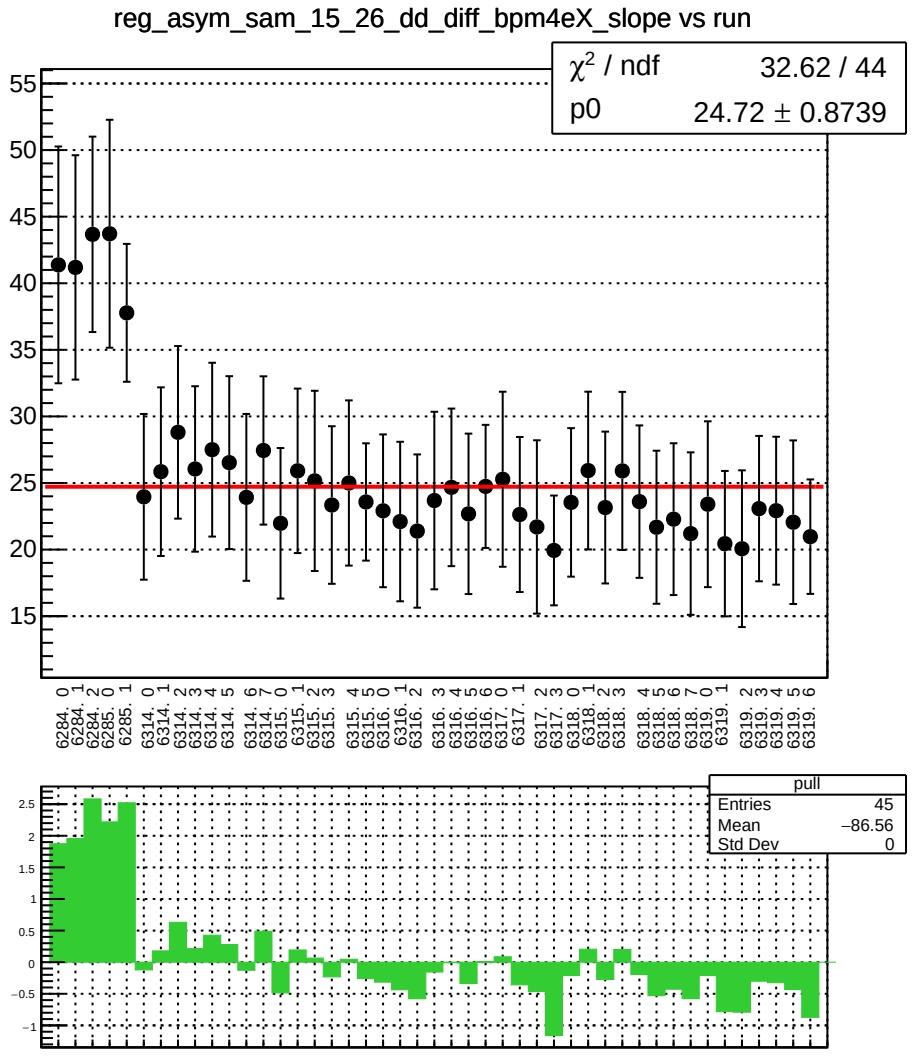

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 70.34 / 44
p0 −0.264 ± 0.03796
pull
Entries 45
Mean −408.4
Std Dev 0

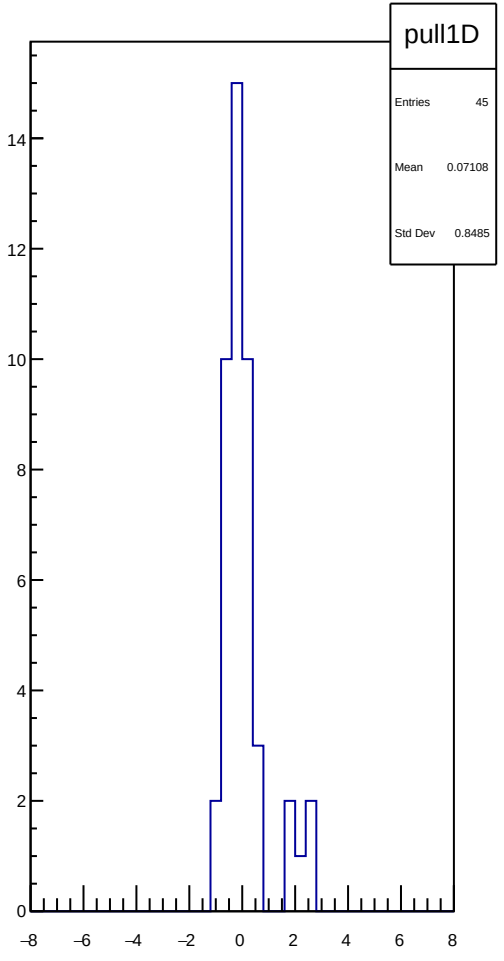

pull1D
Entries 45
Mean 0.02263
Std Dev 1.25

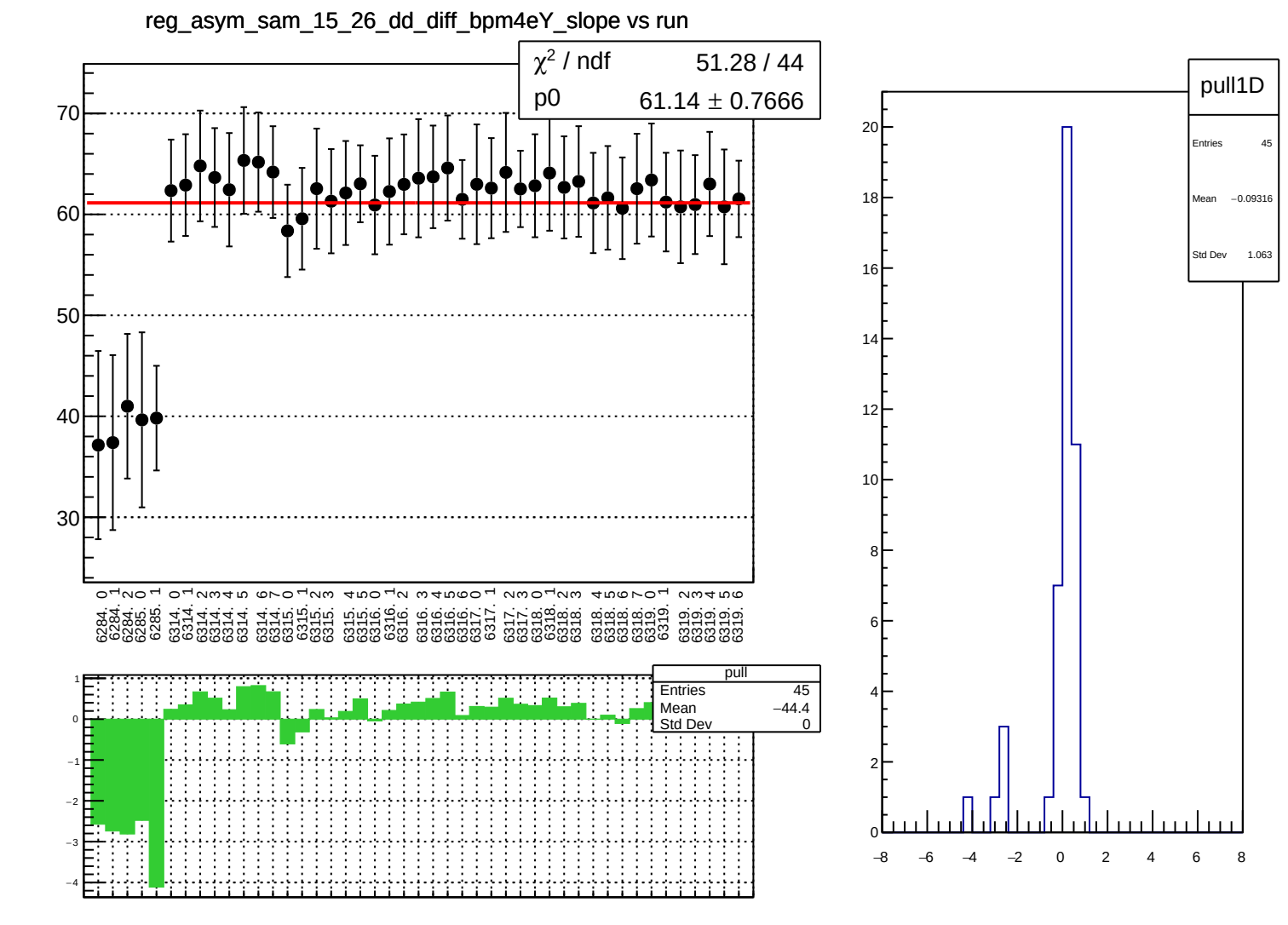

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 32.73 / 44
p0 9.518 ± 0.853
pull
Entries 45
Mean −91.26
Std Dev 0

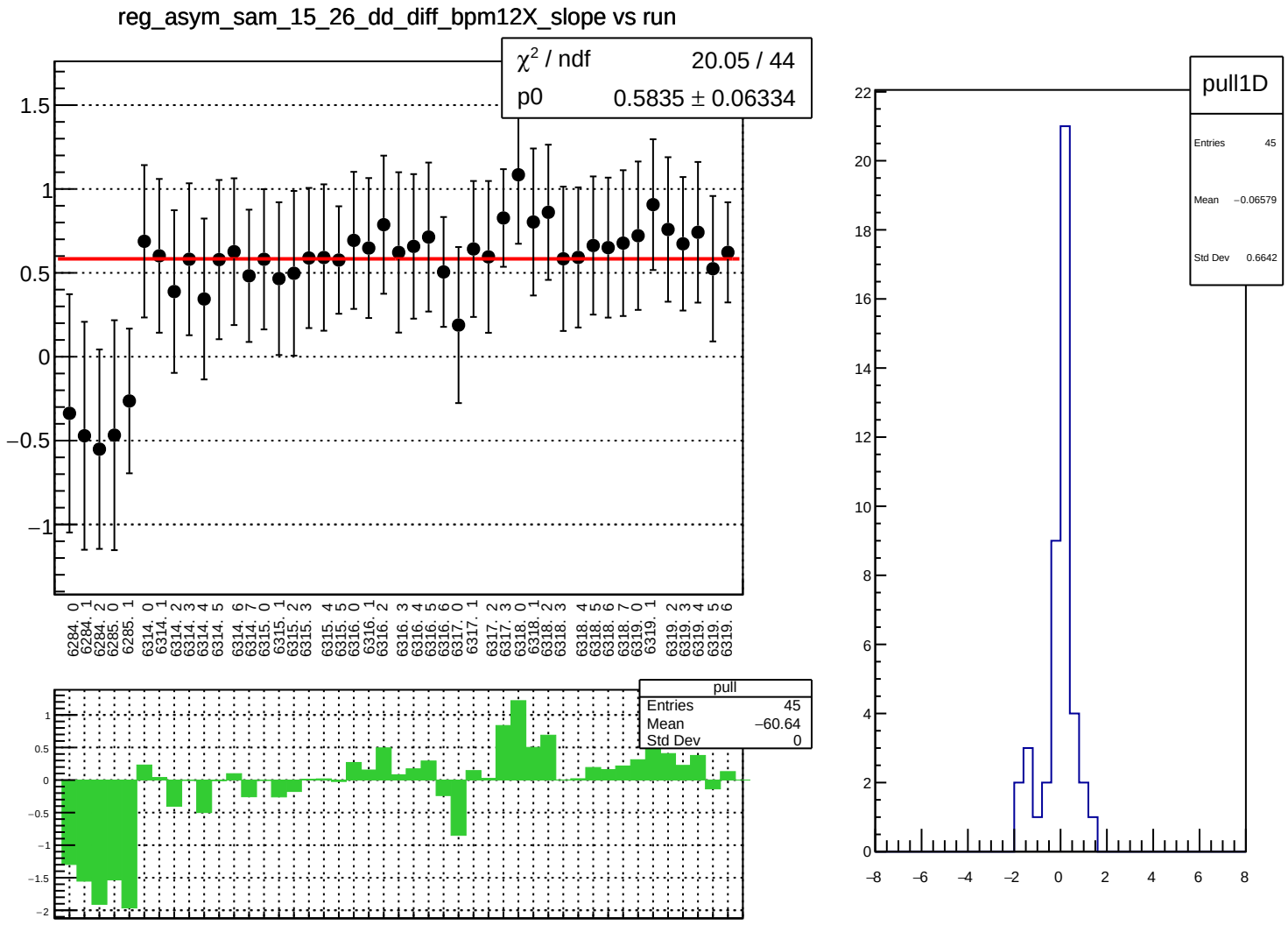

pull1D
Entries 45
Mean −0.06305
Std Dev 0.8506

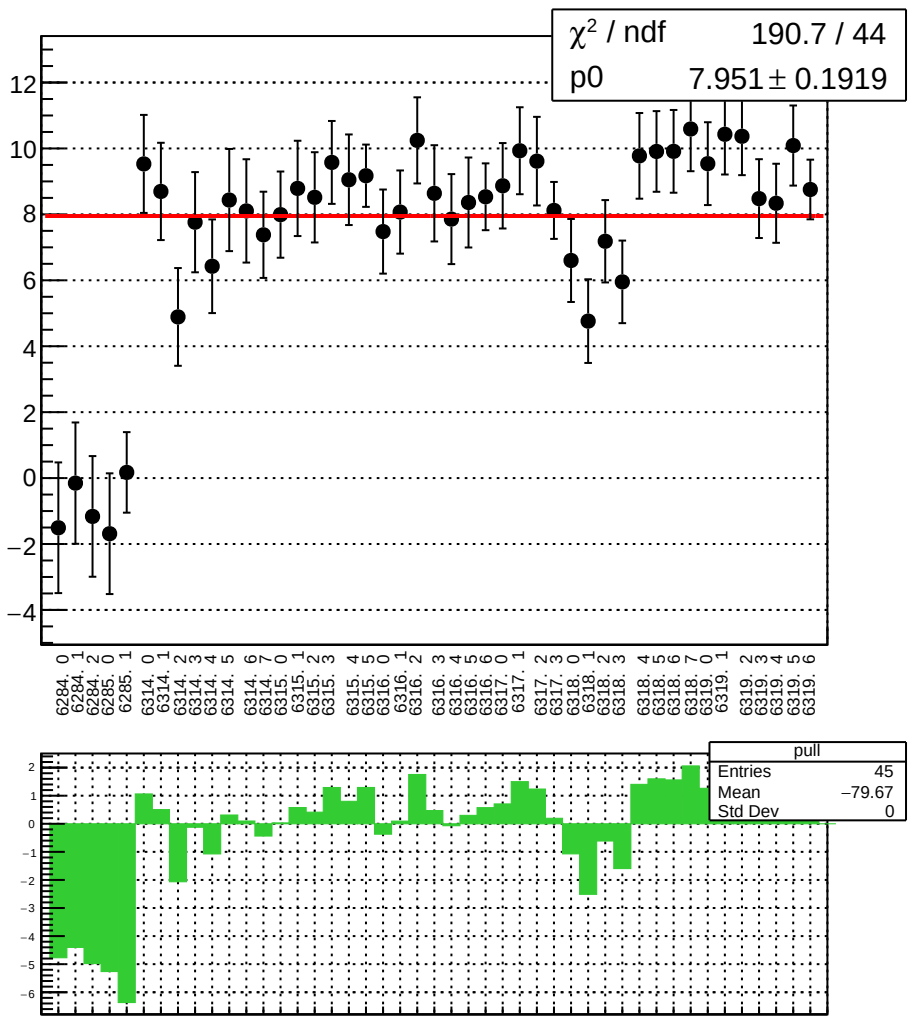

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.73 / 44
p0 −9.556 ± 0.6209
15
10
5
0
−5
−10
−15
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −34.02
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 45
Mean 0.07743
Std Dev 0.7521
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

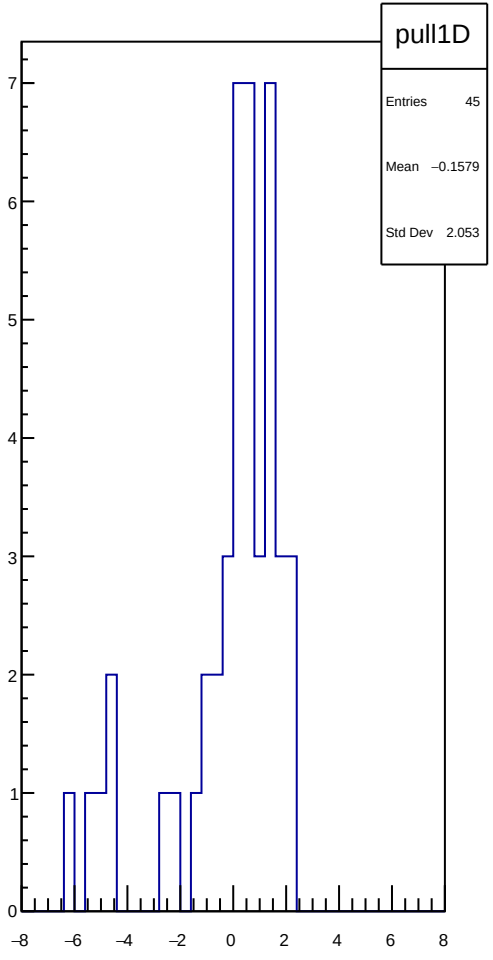

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.62 / 44
p0 24.72 ± 0.8739
pull
Entries 45
Mean −86.56
Std Dev 0

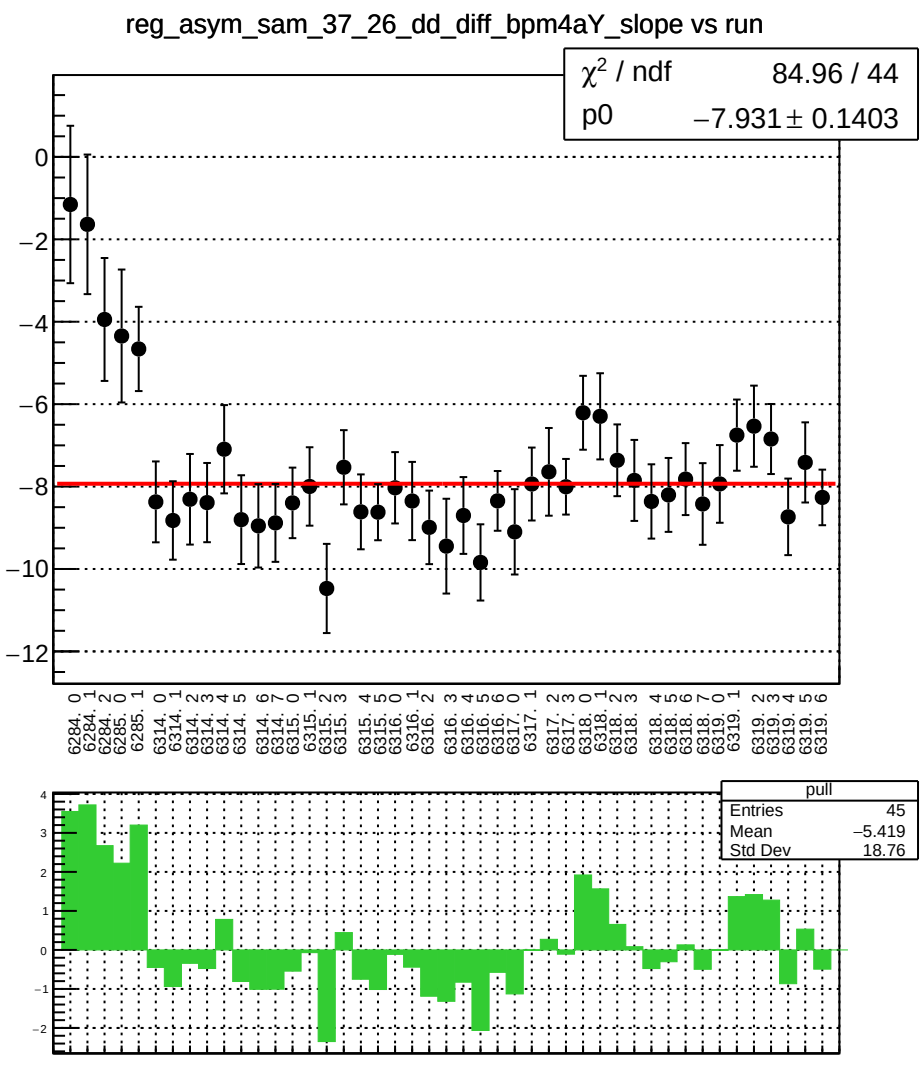

pull1D
Entries 45
Mean 0.07108
Std Dev 0.8485

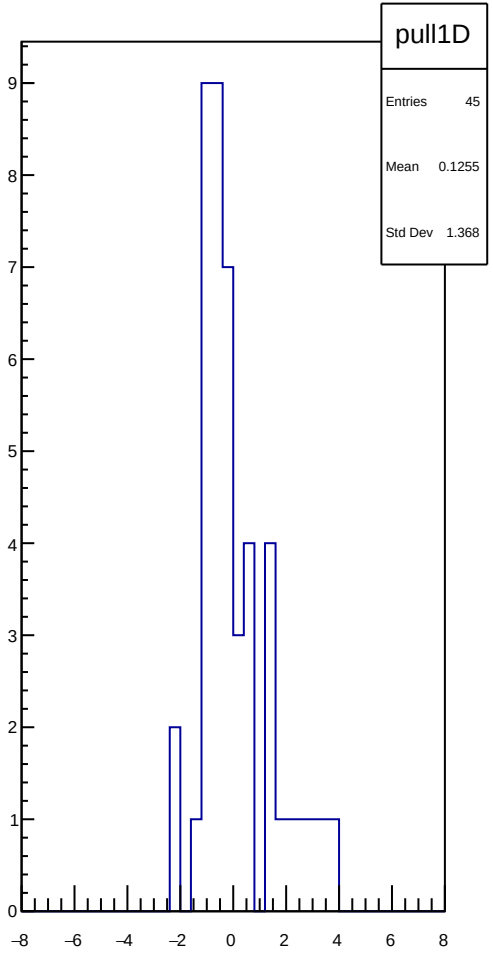

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.28 / 44
p0 61.14 ± 0.7666
70
60
50
40
30
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −44.4
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.09316
Std Dev 1.063
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

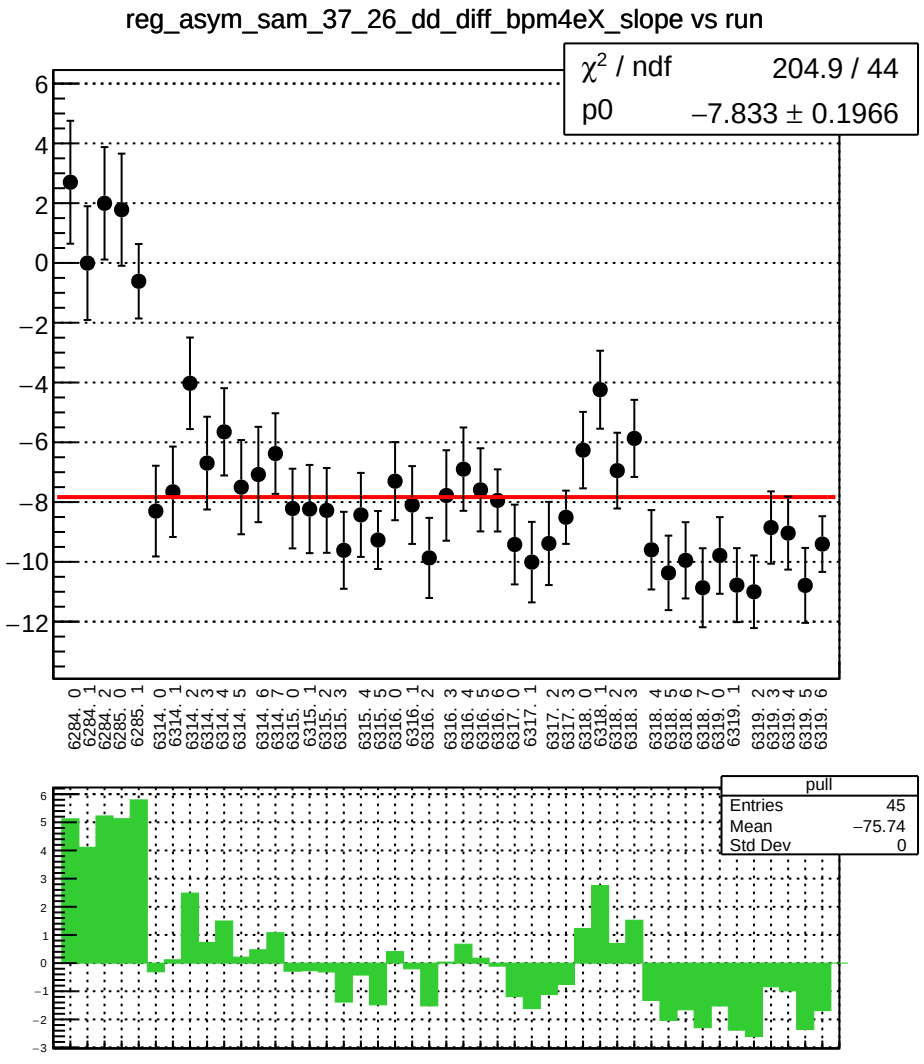

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 20.05 / 44
p0 0.5835 ± 0.06334
pull
Entries 45
Mean −60.64
Std Dev 0
pull1D
Entries 45
Mean −0.06579
Std Dev 0.6642

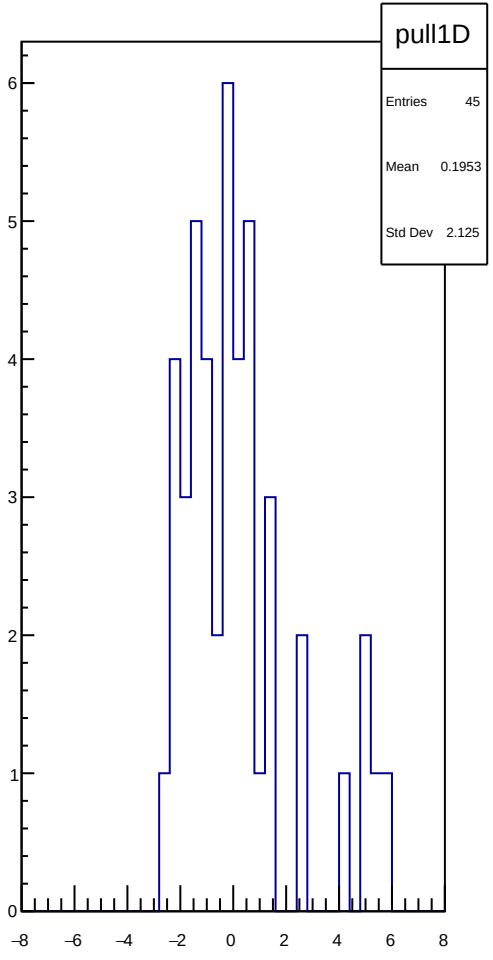

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 190.7 / 44
p0 7.951 ± 0.1919
pull
Entries 45
Mean −79.67
Std Dev 0

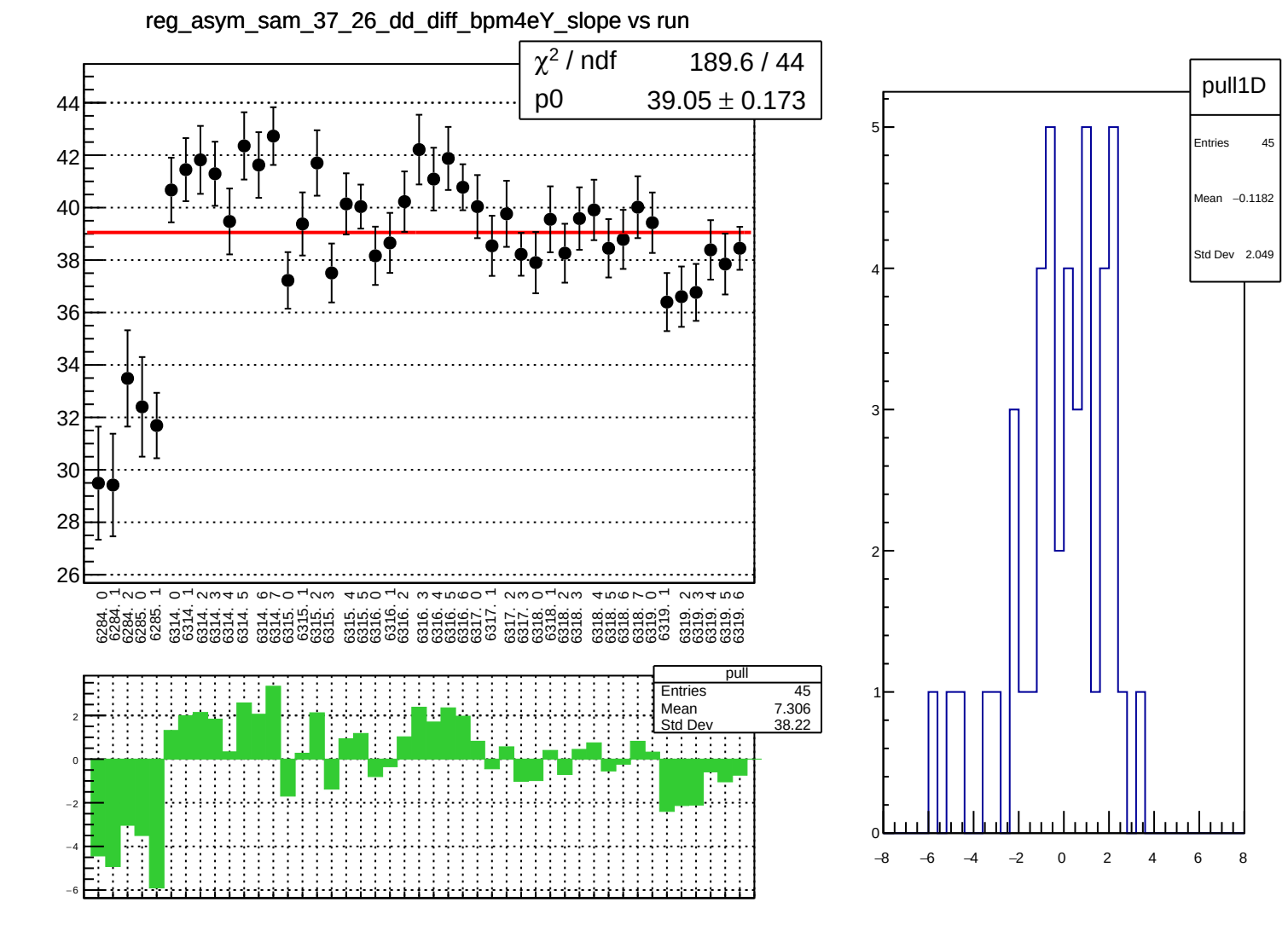

pull1D
Entries 45
Mean −0.1579
Std Dev 2.053

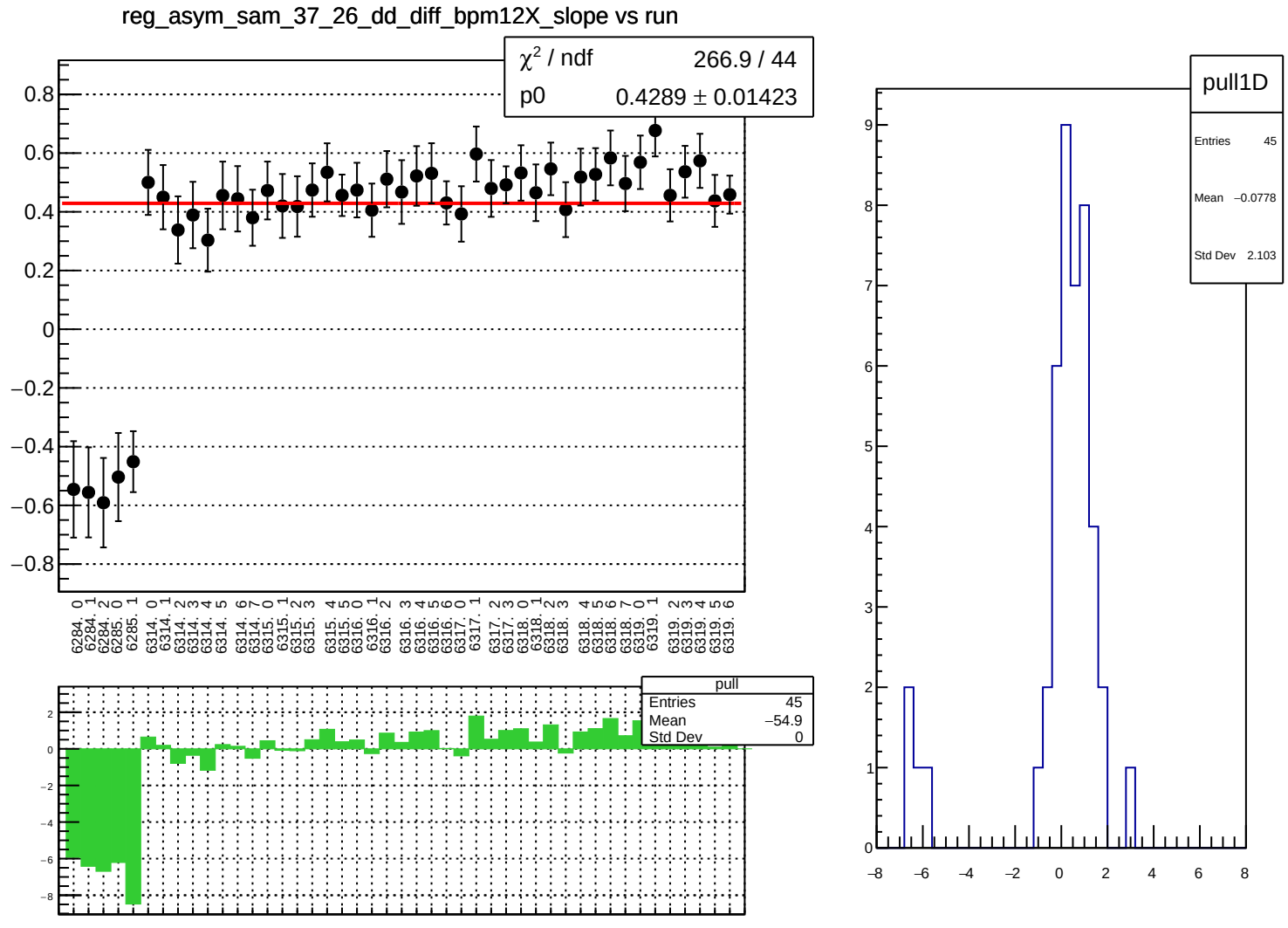

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.96 / 44
p0 −7.931 ± 0.1403
pull
Entries 45
Mean −5.419
Std Dev 18.76

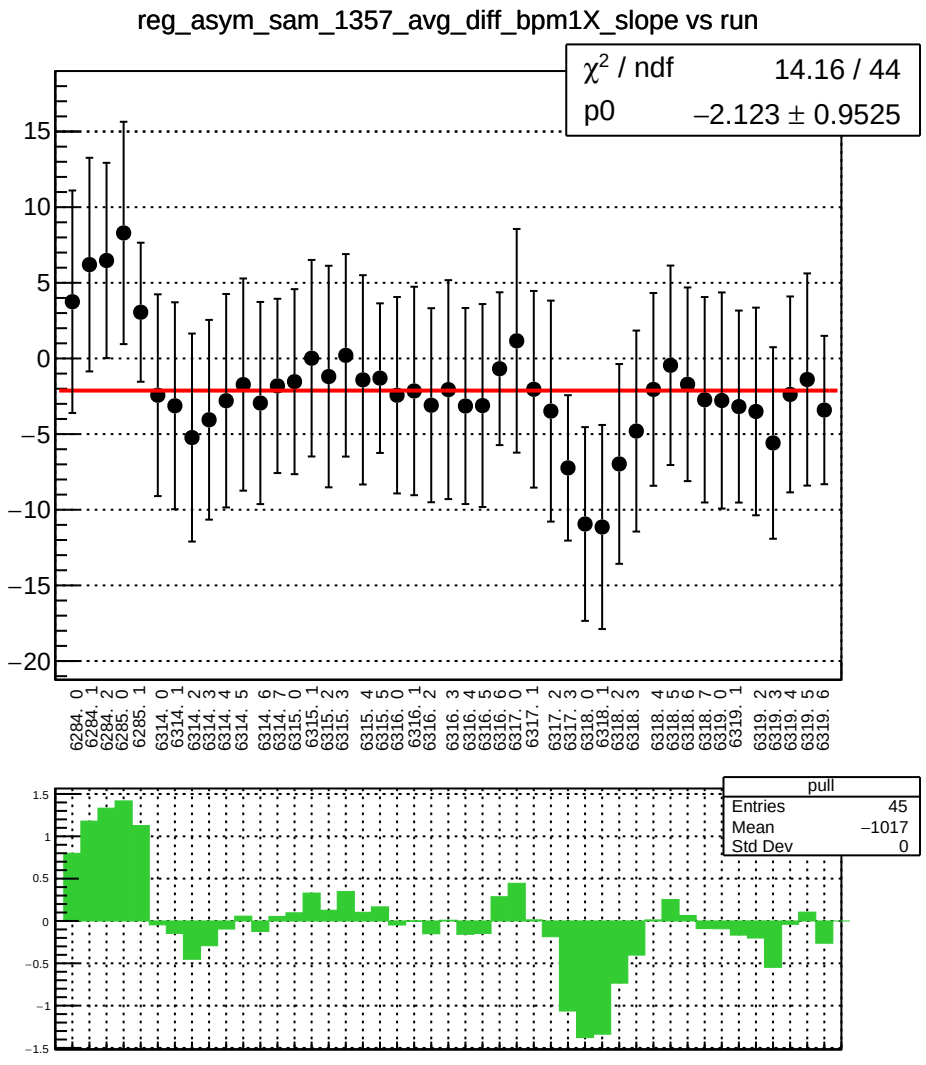

pull1D
Entries 45
Mean 0.1255
Std Dev 1.368

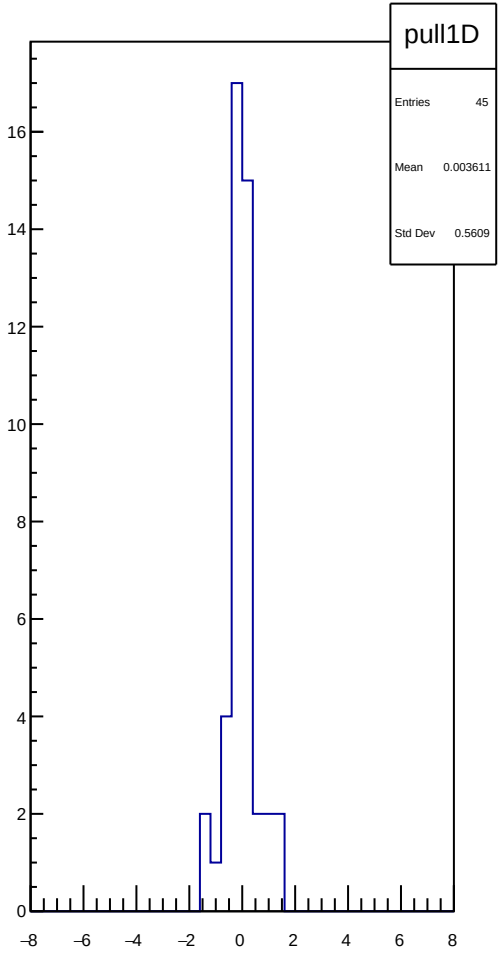

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 204.9 / 44
p0 −7.833 ± 0.1966
pull
Entries 45
Mean −75.74
Std Dev 0

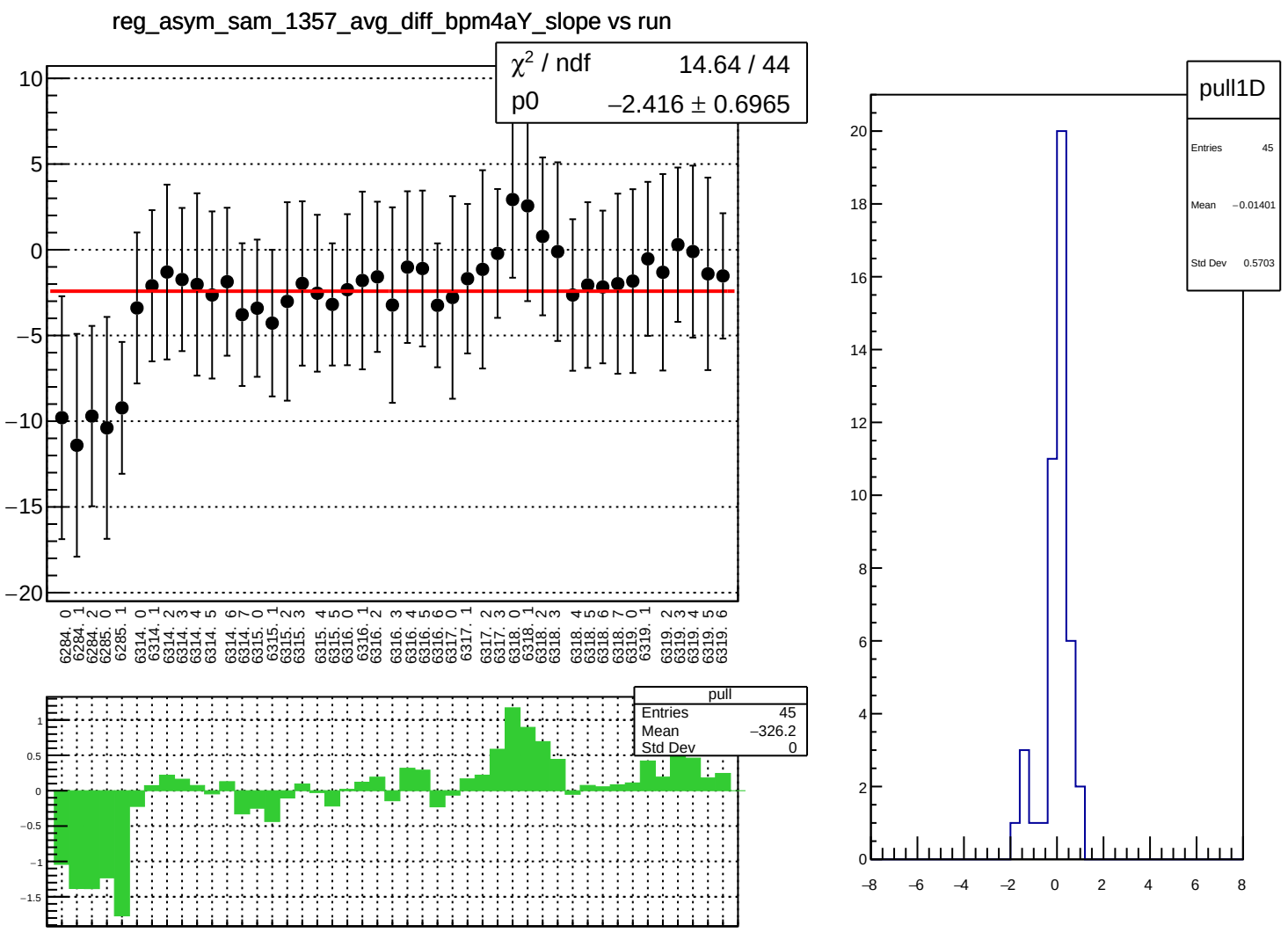

pull1D
Entries 45
Mean 0.1953
Std Dev 2.125

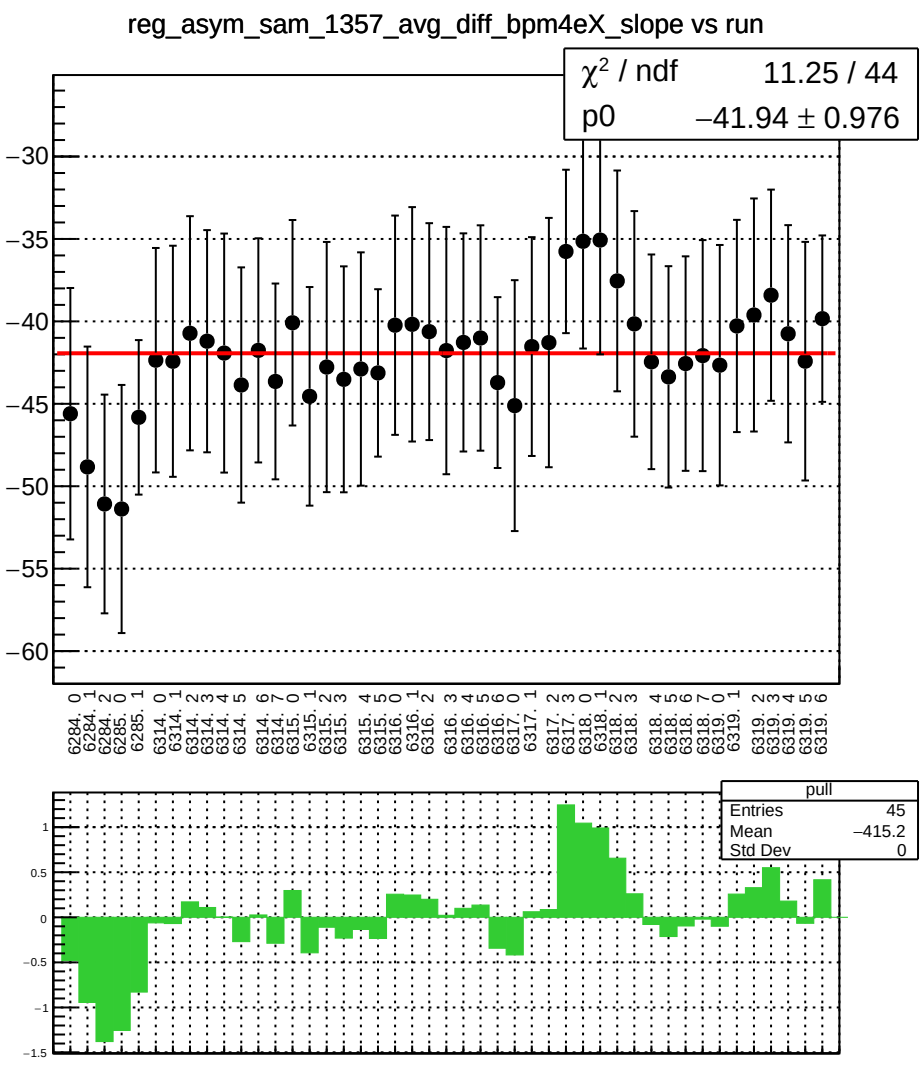

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 189.6 / 44
p0 39.05 ± 0.173
pull
Entries 45
Mean 7.306
Std Dev 38.22
pull1D
Entries 45
Mean −0.1182
Std Dev 2.049

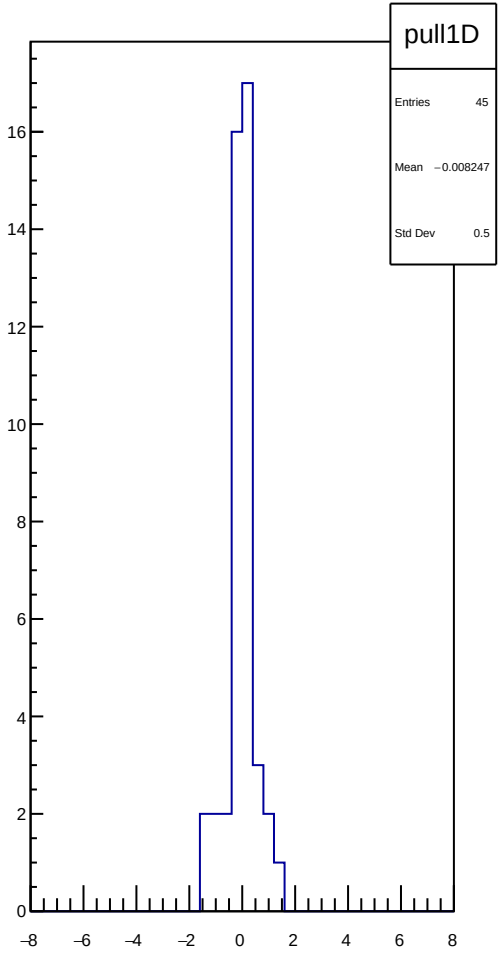

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 266.9 / 44
p0 0.4289 ± 0.01423
pull
Entries 45
Mean −54.9
Std Dev 0
pull1D
Entries 45
Mean −0.0778
Std Dev 2.103

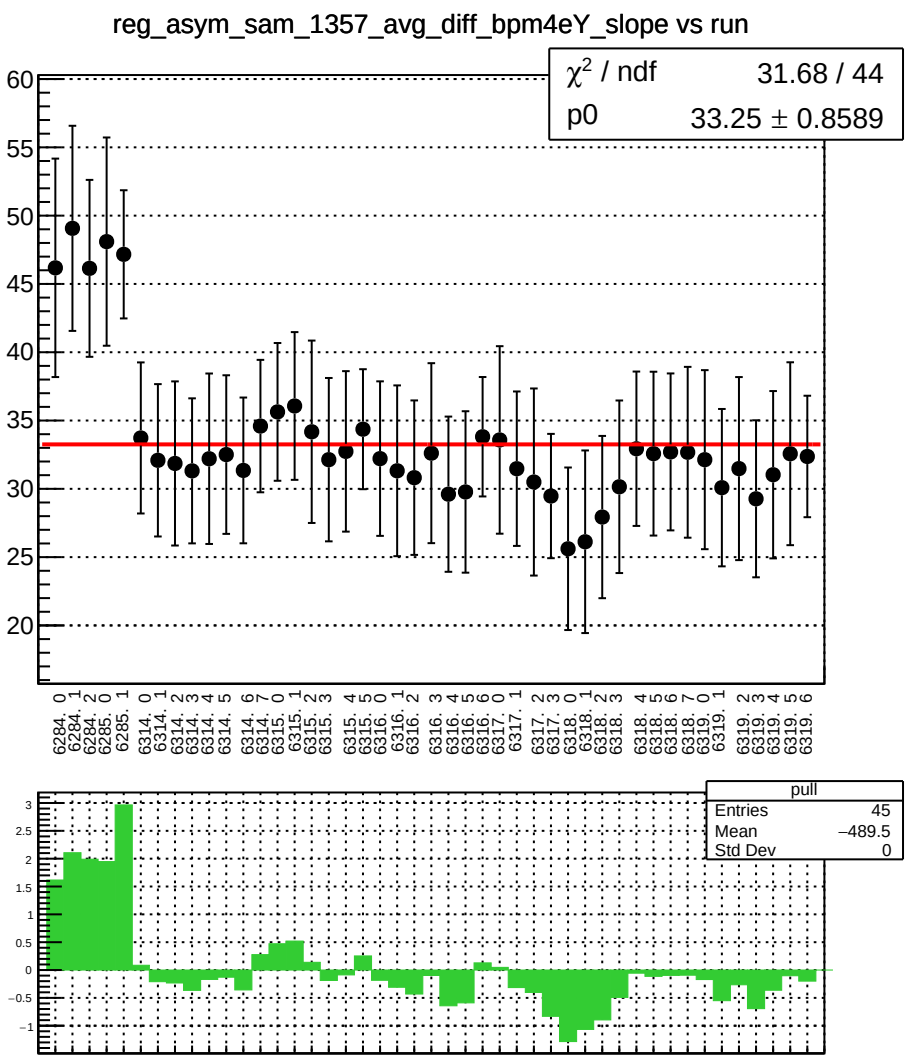

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 14.16 / 44
p0 −2.123 ± 0.9525
pull
Entries 45
Mean −1017
Std Dev 0

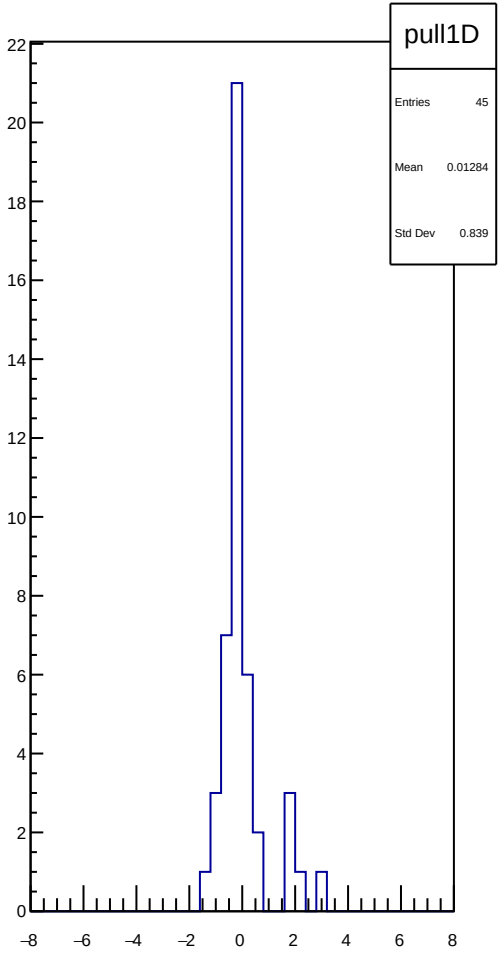

pull1D
Entries 45
Mean 0.003611
Std Dev 0.5609

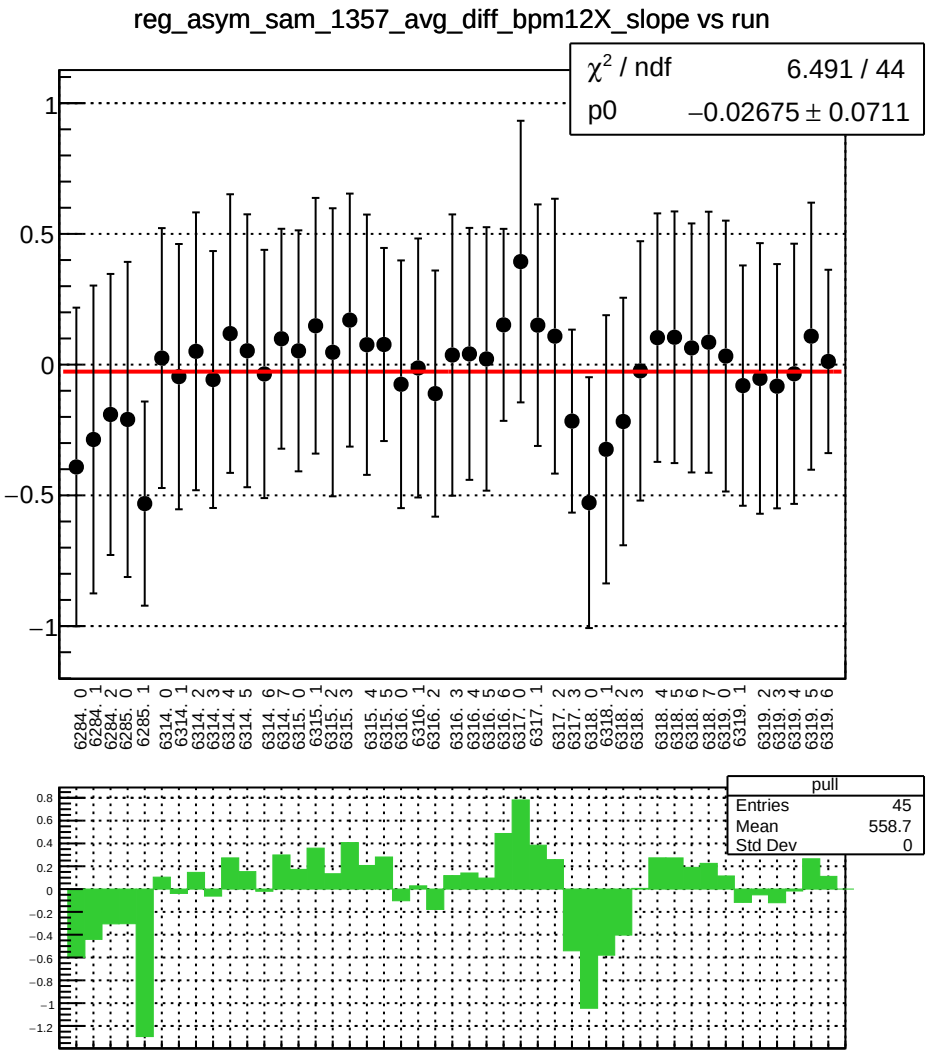

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.64 / 44
p0 −2.416 ± 0.6965
pull
Entries 45
Mean −326.2
Std Dev 0
pull1D
Entries 45
Mean −0.01401
Std Dev 0.5703

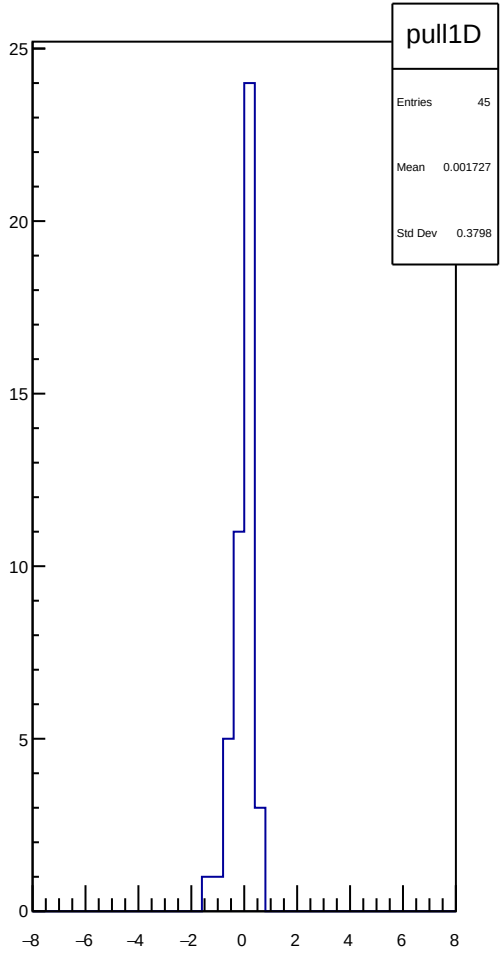

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.25 / 44
p0 −41.94 ± 0.976
−30
−35
−40
−45
−50
−55
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −415.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

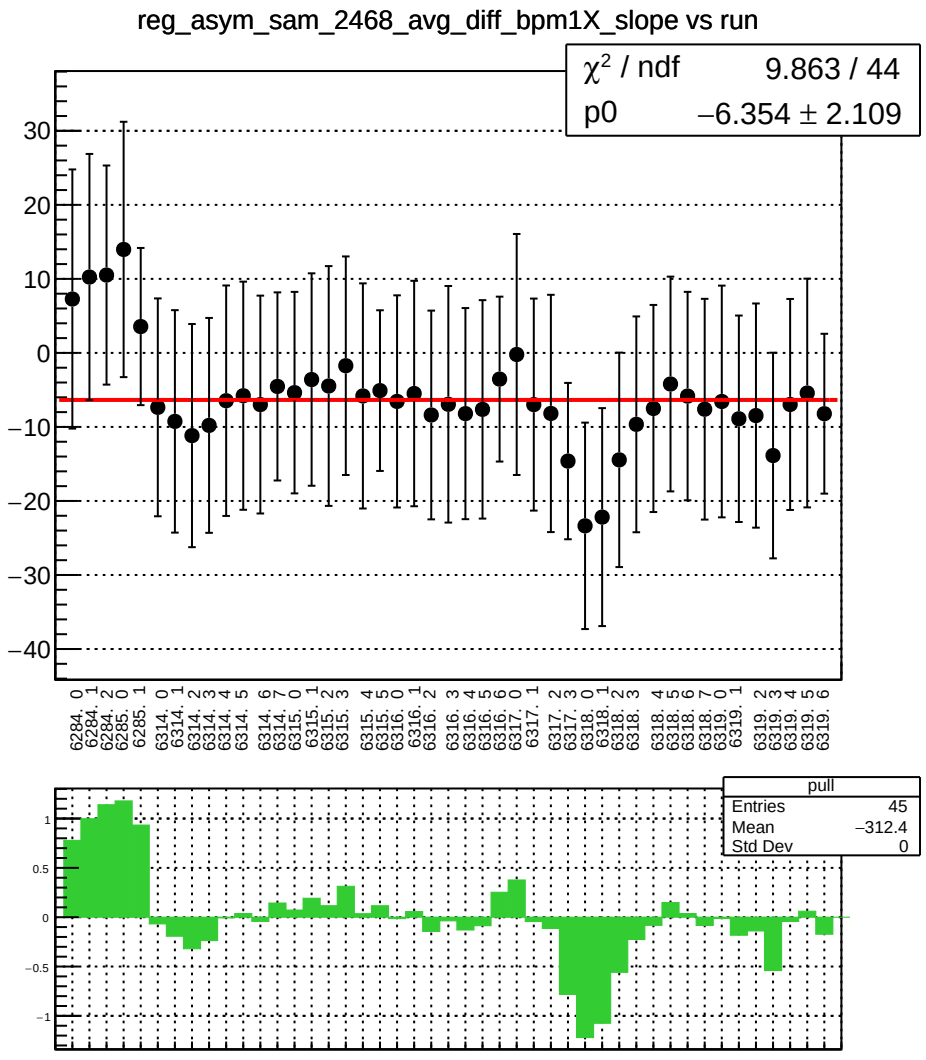

pull1D
Entries 45
Mean −0.008247
Std Dev 0.5
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

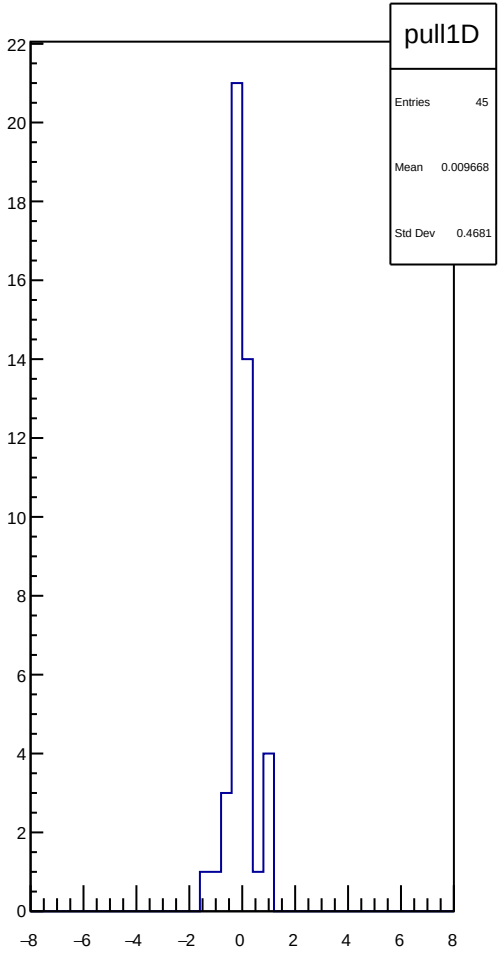

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.68 / 44
p0 33.25 ± 0.8589
pull
Entries 45
Mean −489.5
Std Dev 0

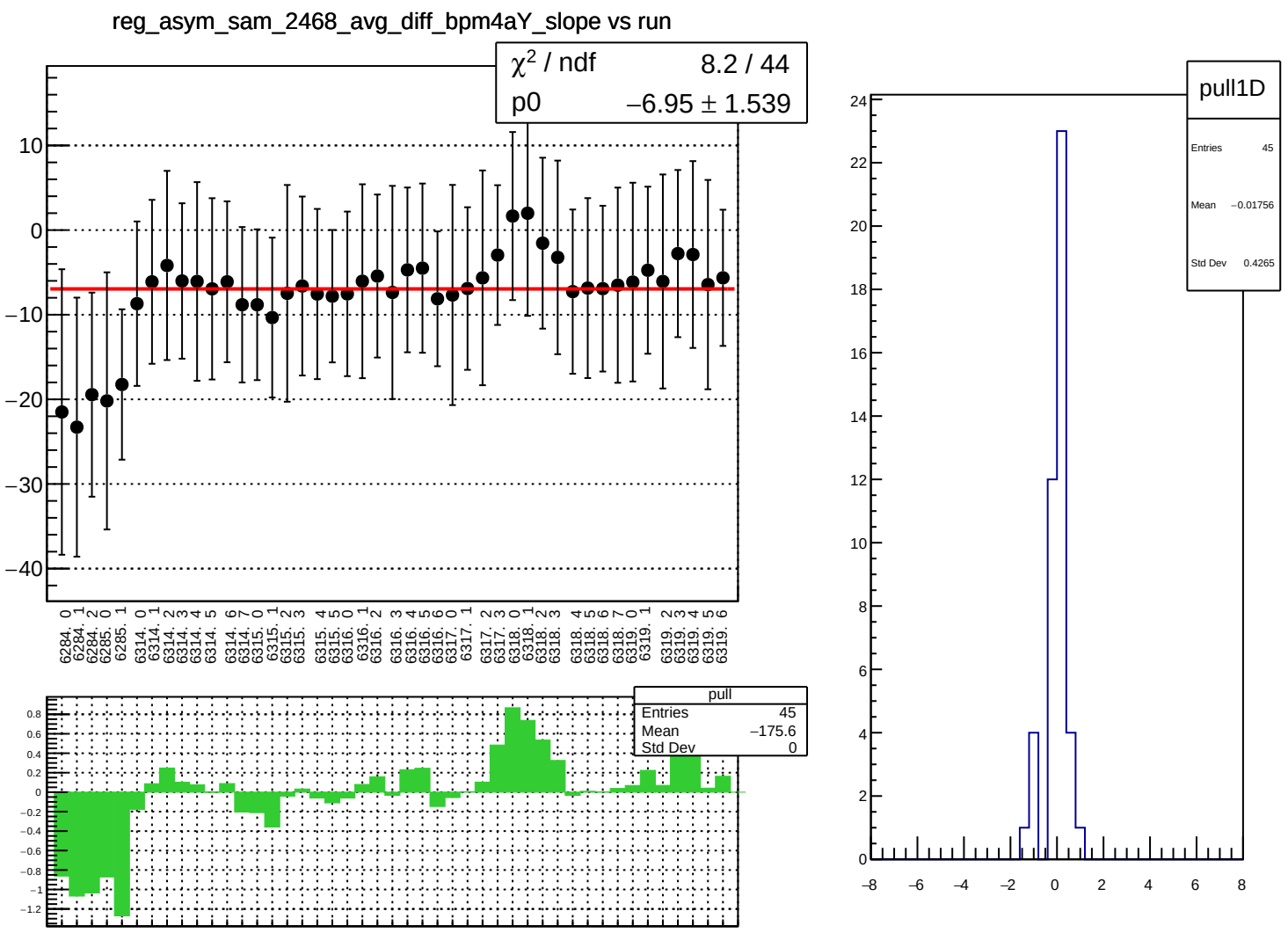

pull1D
Entries 45
Mean 0.01284
Std Dev 0.839

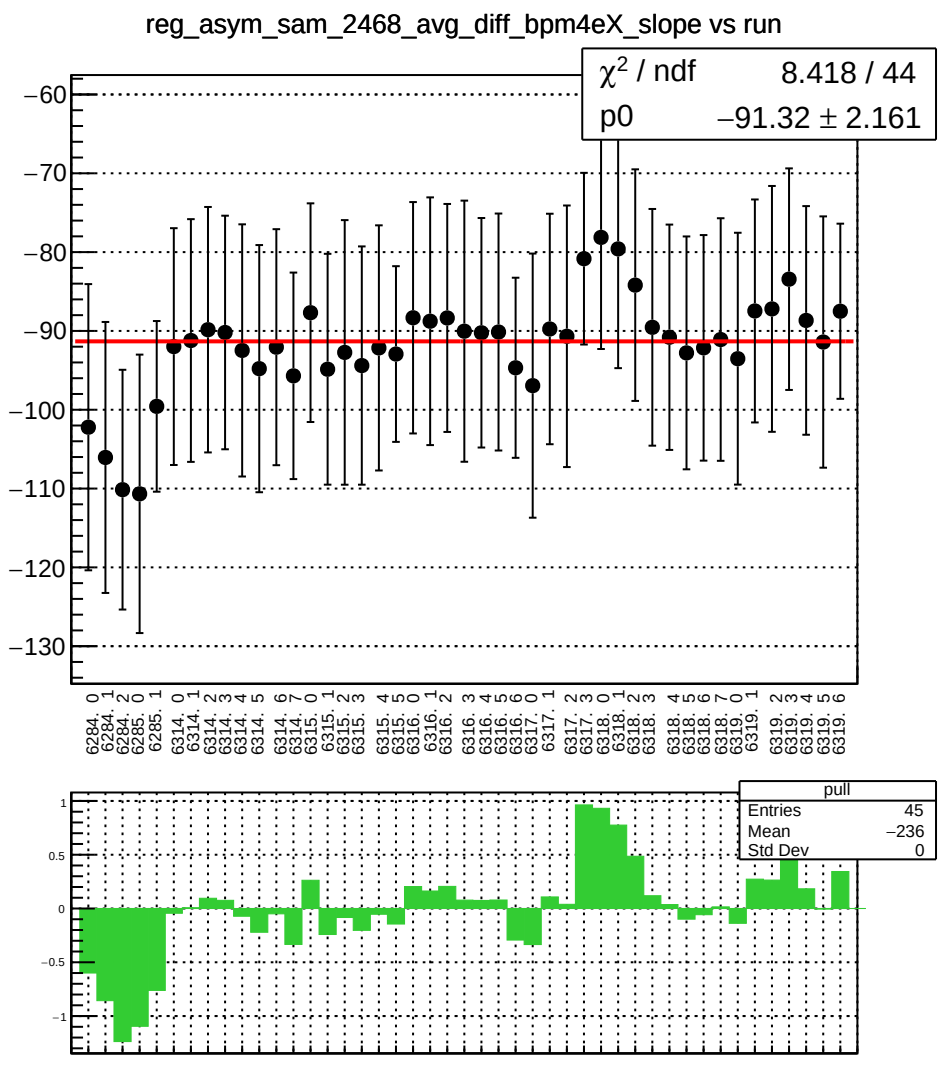

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.491 / 44
p0 −0.02675 ± 0.0711
pull
Entries 45
Mean 558.7
Std Dev 0

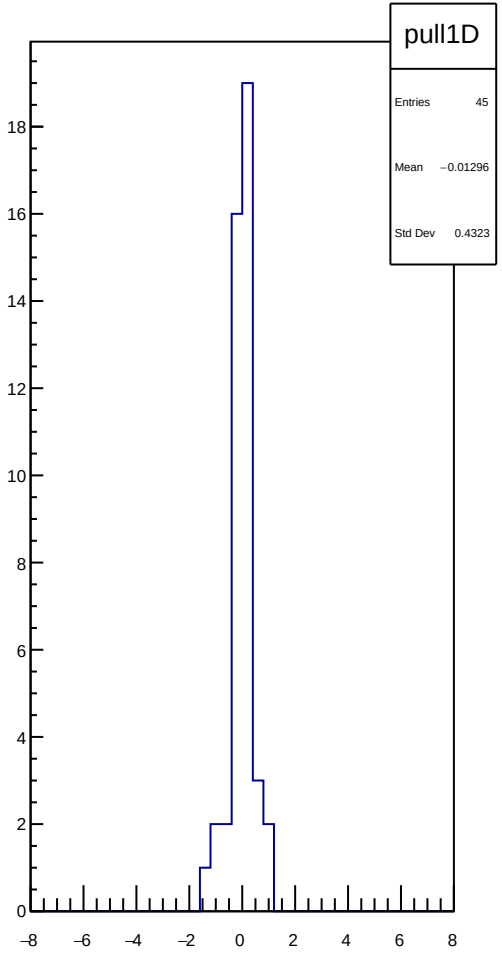

pull1D
Entries 45
Mean 0.001727
Std Dev 0.3798

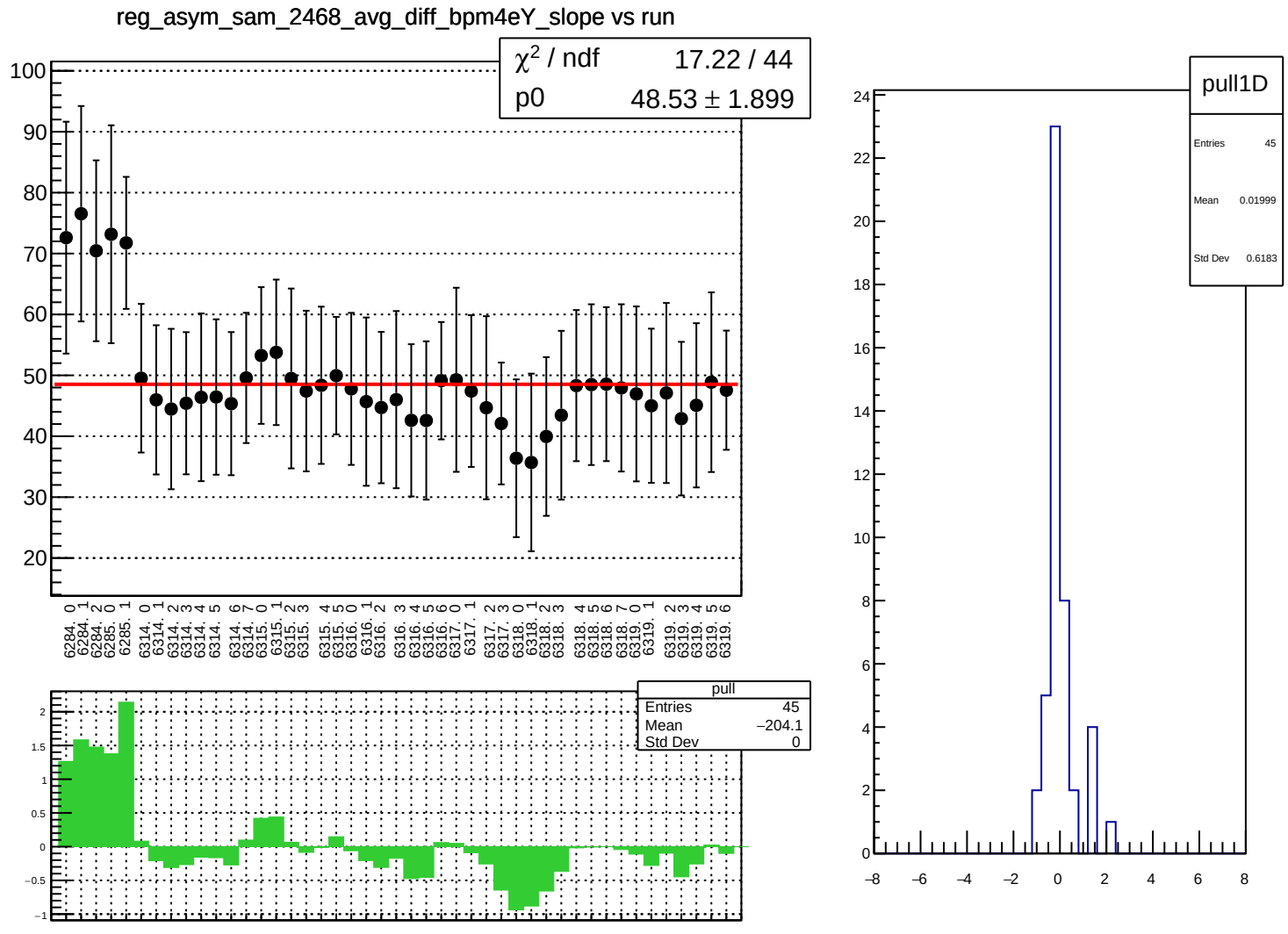

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 9.863 / 44
p0 −6.354 ± 2.109
pull
Entries 45
Mean −312.4
Std Dev 0

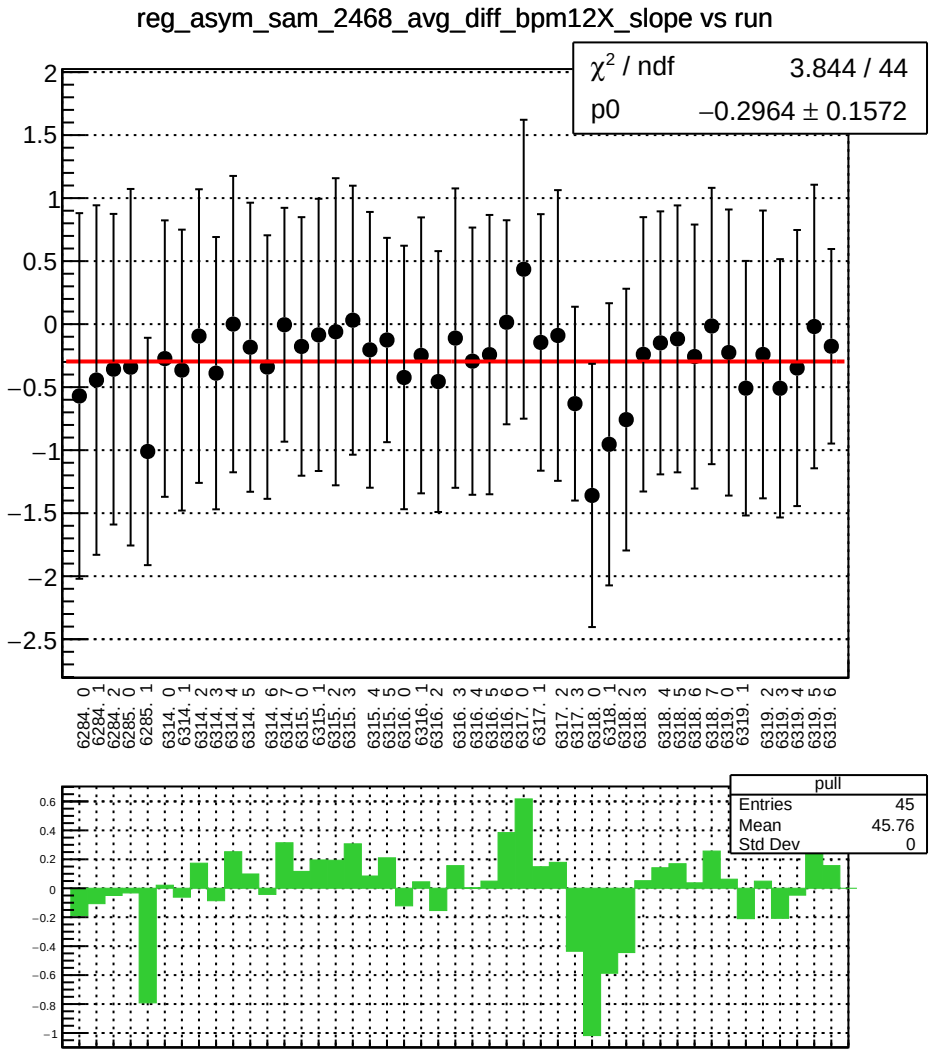

pull1D
Entries 45
Mean 0.009668
Std Dev 0.4681

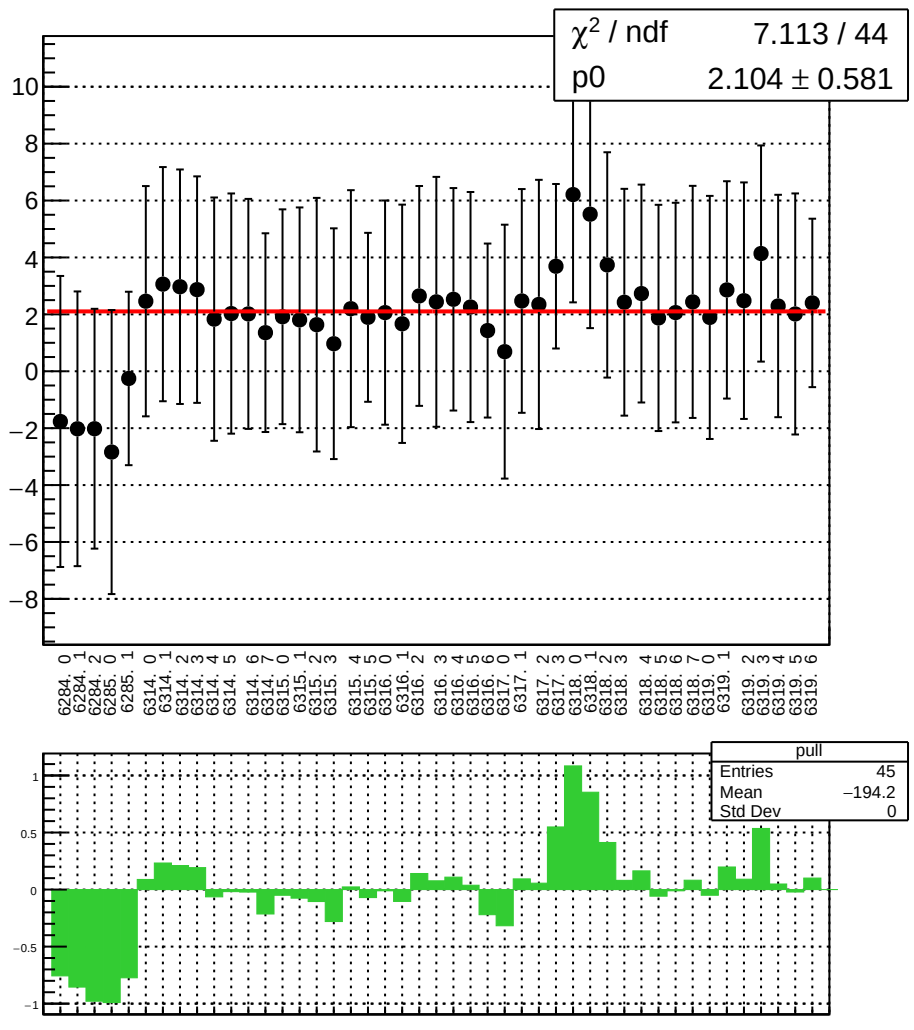

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.2 / 44
p0 −6.95 ± 1.539
pull
Entries 45
Mean −175.6
Std Dev 0
pull1D
Entries 45
Mean −0.01756
Std Dev 0.4265

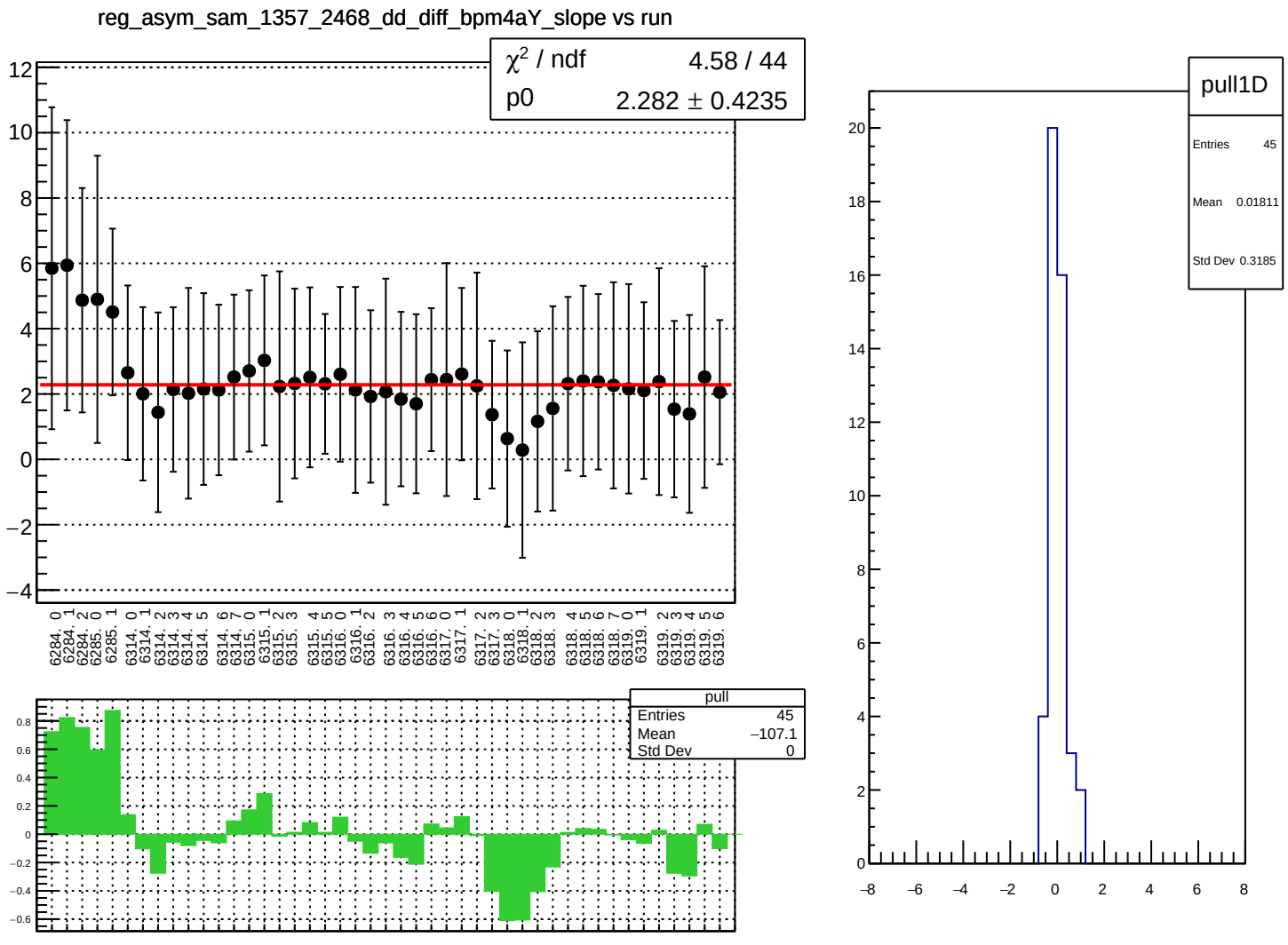

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.418 / 44
p0 −91.32 ± 2.161
pull
Entries 45
Mean −236
Std Dev 0

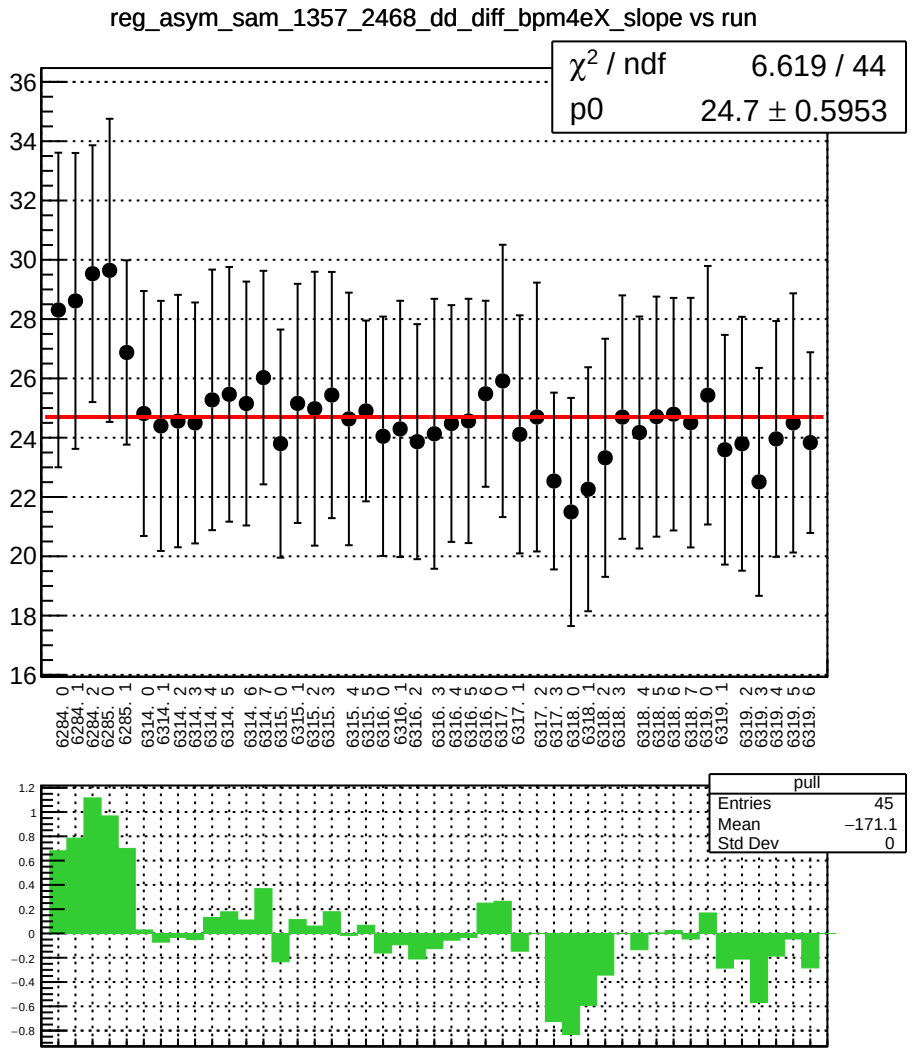

pull1D
Entries 45
Mean −0.01296
Std Dev 0.4323

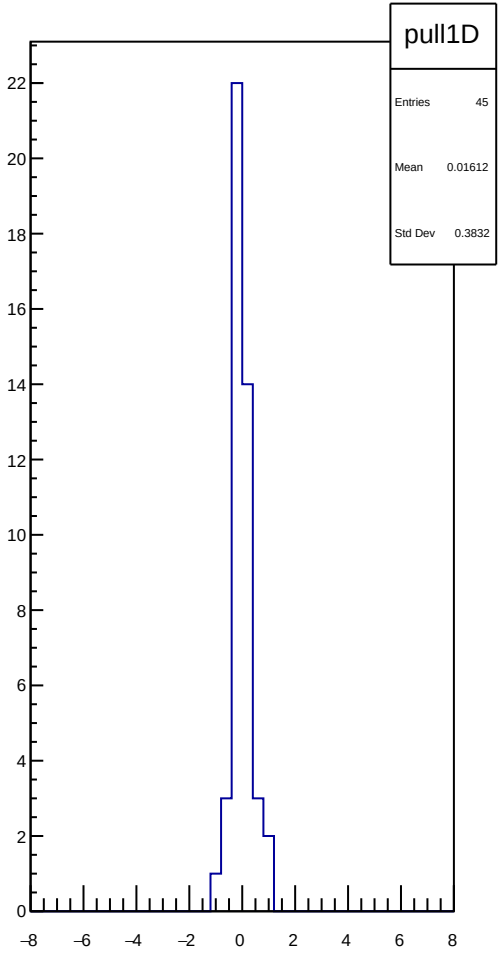

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.22 / 44
p0 48.53 ± 1.899
pull
Entries 45
Mean −204.1
Std Dev 0
pull1D
Entries 45
Mean 0.01999
Std Dev 0.6183

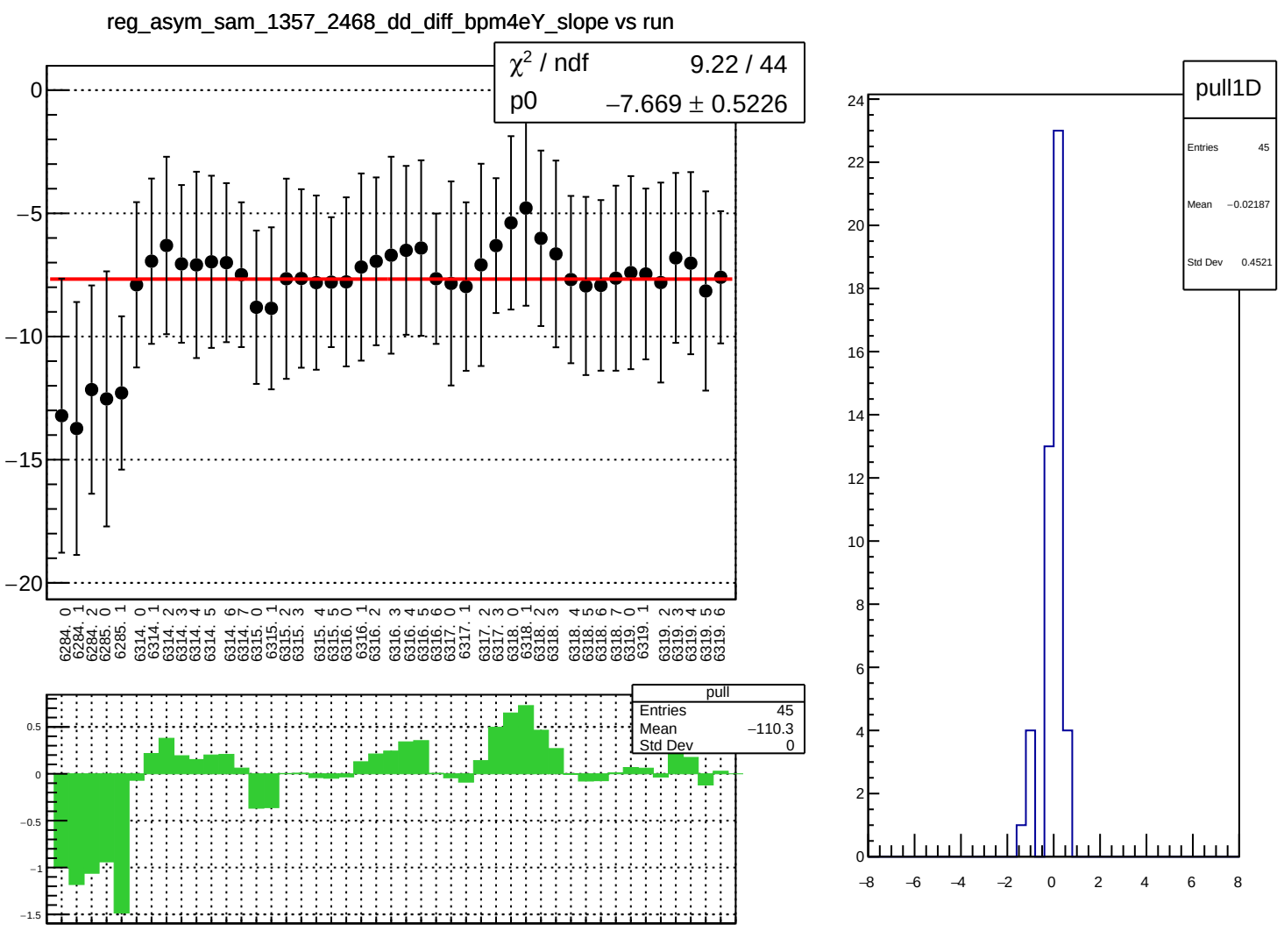

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.844 / 44
p0 −0.2964 ± 0.1572
pull
Entries 45
Mean 45.76
Std Dev 0
pull1D
Entries 45
Mean 0.003061
Std Dev 0.2922

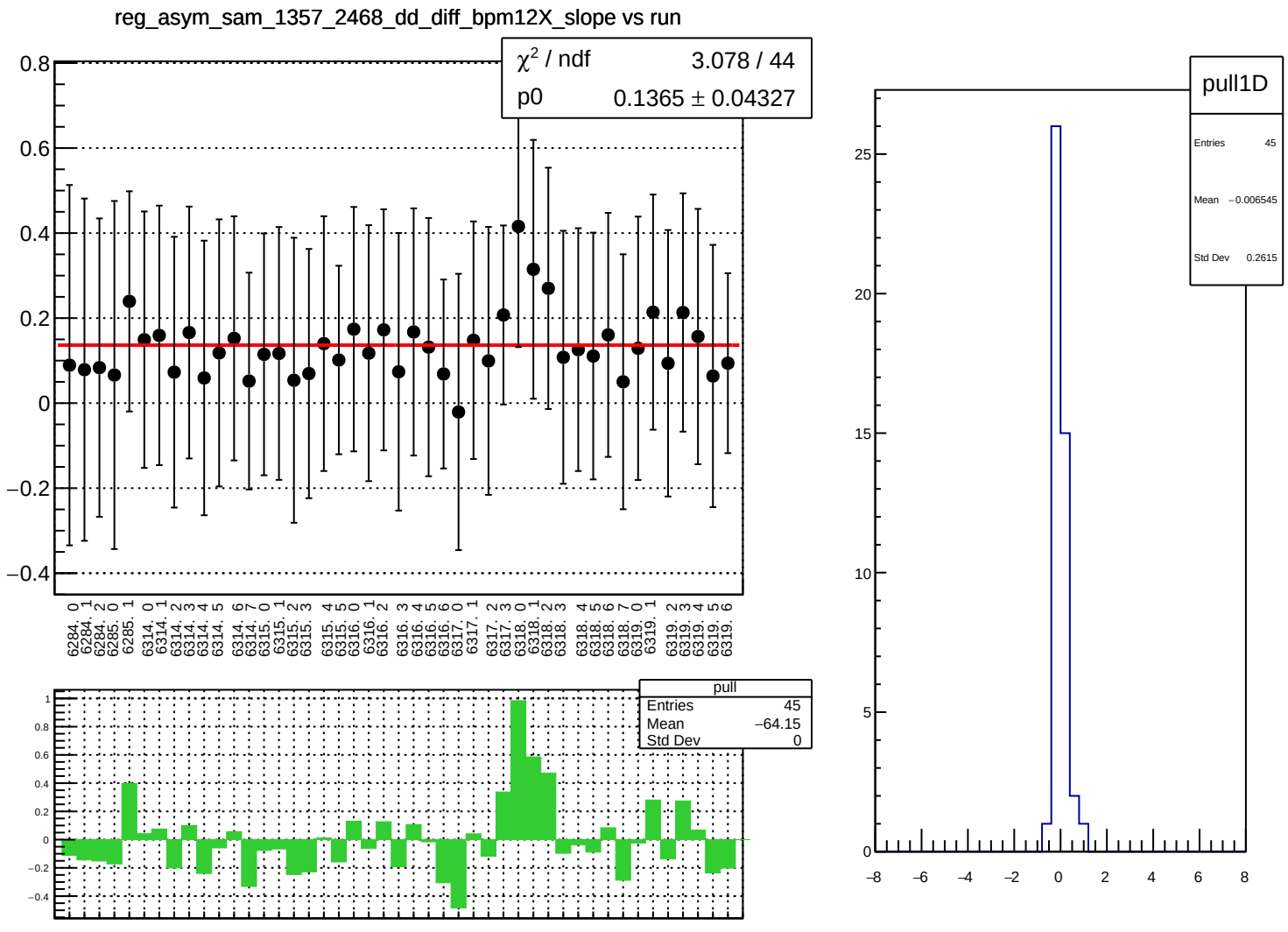

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 7.113 / 44
p0 2.104 ± 0.581
pull
Entries 45
Mean −194.2
Std Dev 0
pull1D
Entries 45
Mean −0.01299
Std Dev 0.3974

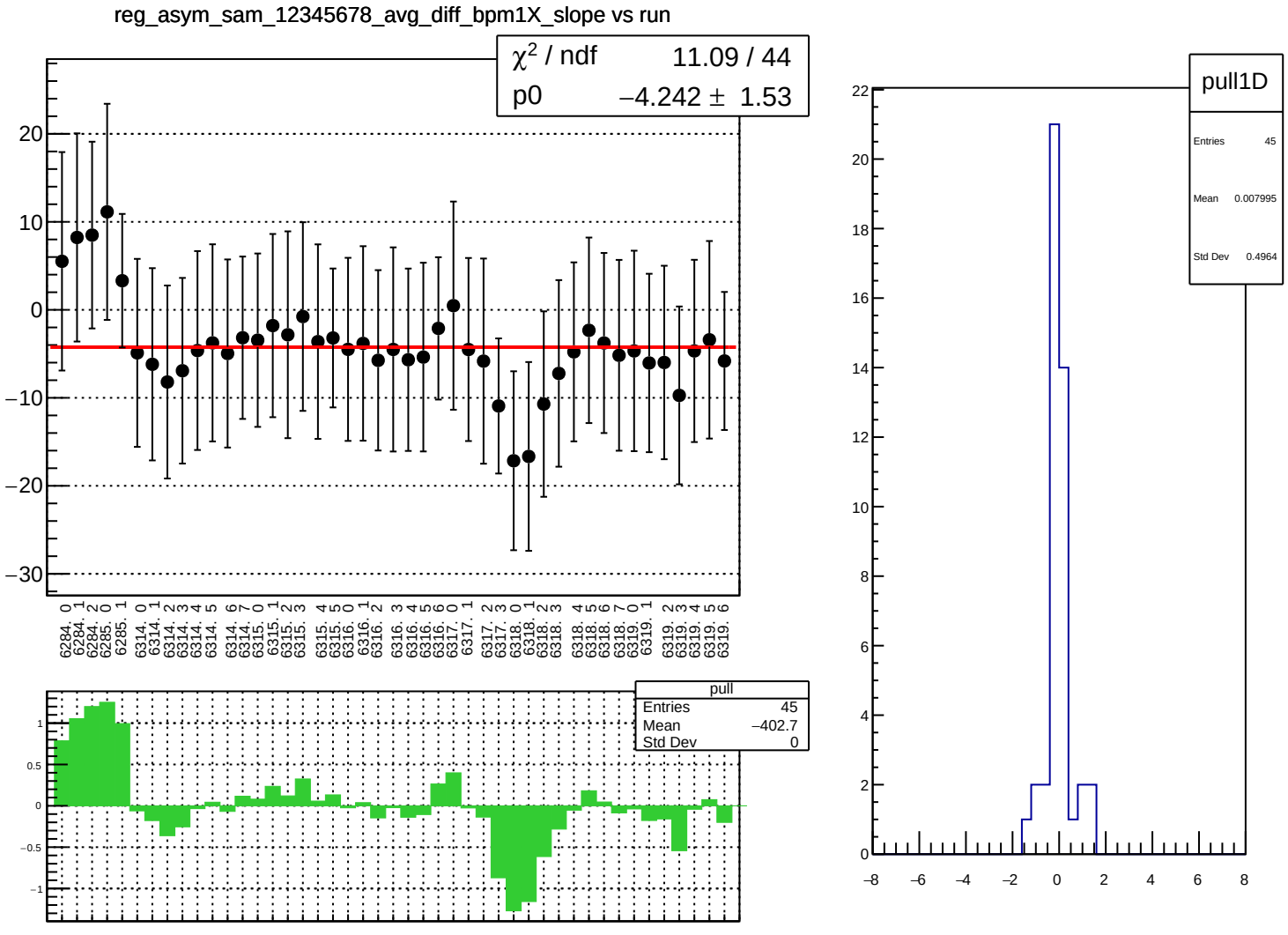

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.58 / 44
p0 2.282 ± 0.4235
pull
Entries 45
Mean −107.1
Std Dev 0
pull1D
Entries 45
Mean 0.01811
Std Dev 0.3185

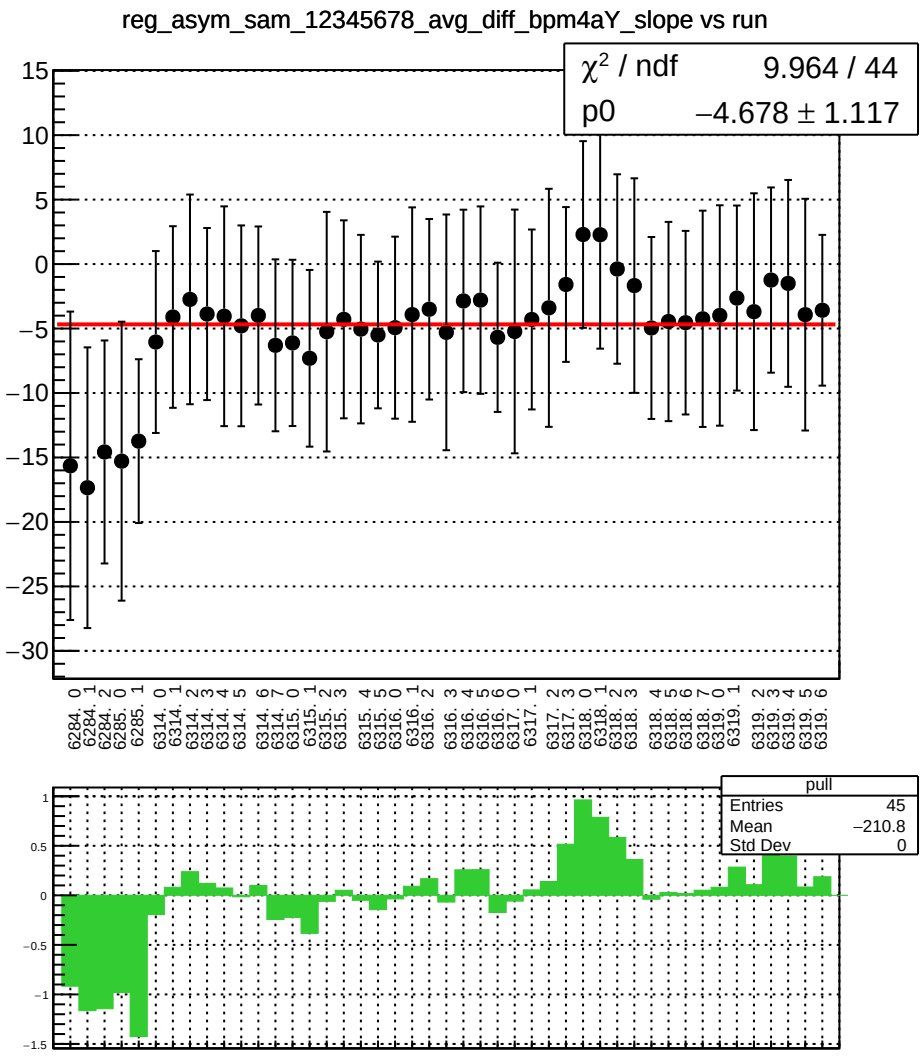

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.619 / 44
p0 24.7 ± 0.5953
pull
Entries 45
Mean −171.1
Std Dev 0

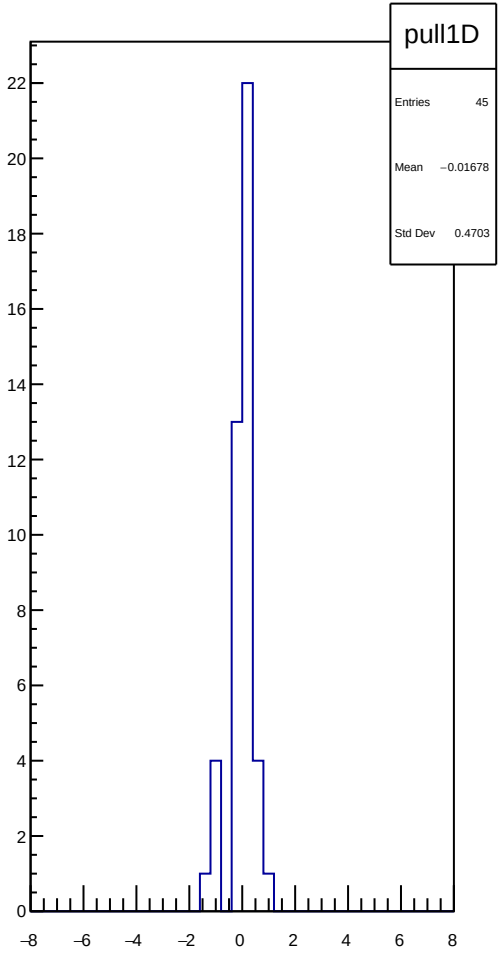

pull1D
Entries 45
Mean 0.01612
Std Dev 0.3832

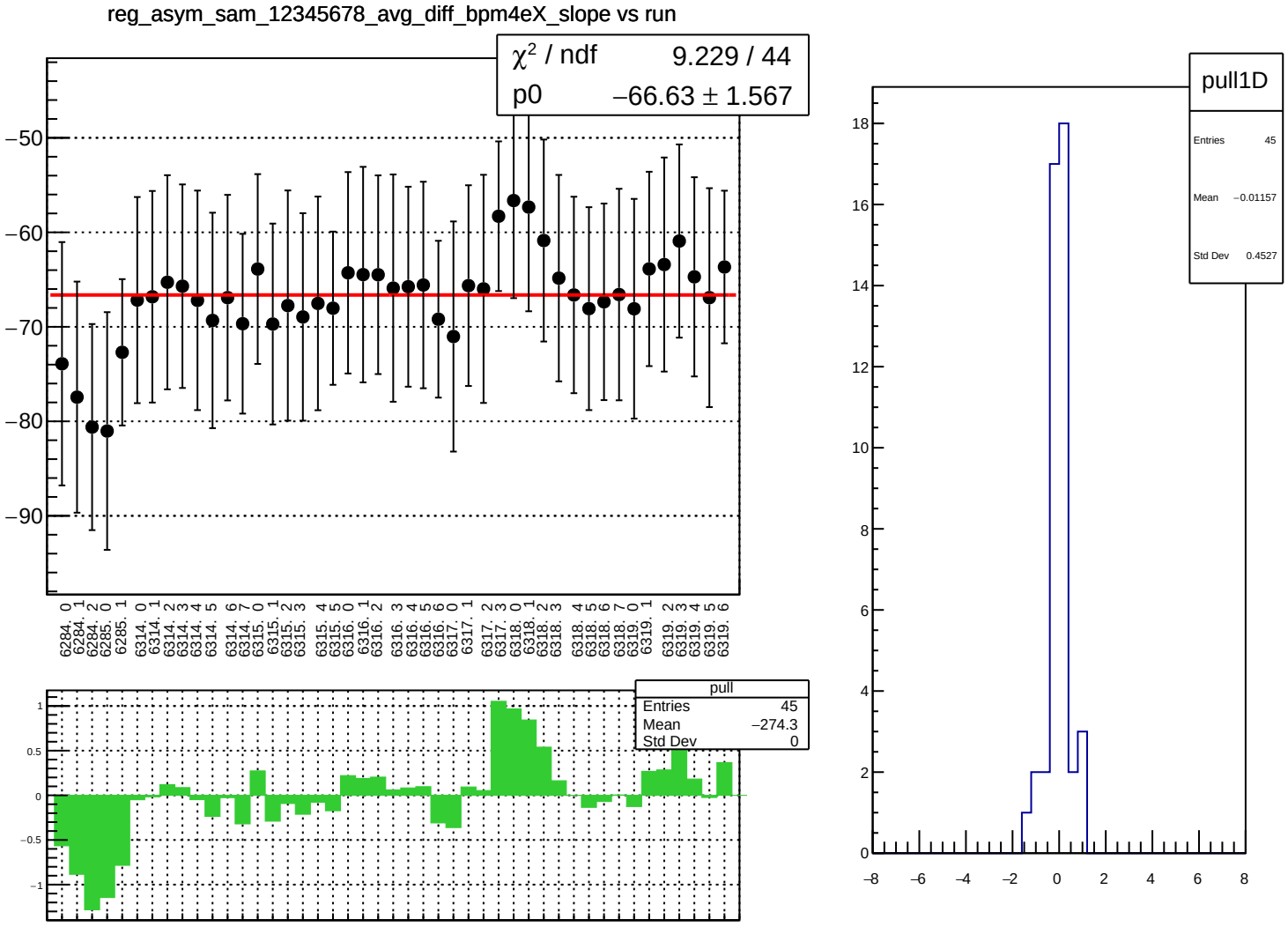

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.22 / 44
p0 −7.669 ± 0.5226
pull
Entries 45
Mean −110.3
Std Dev 0
pull1D
Entries 45
Mean −0.02187
Std Dev 0.4521

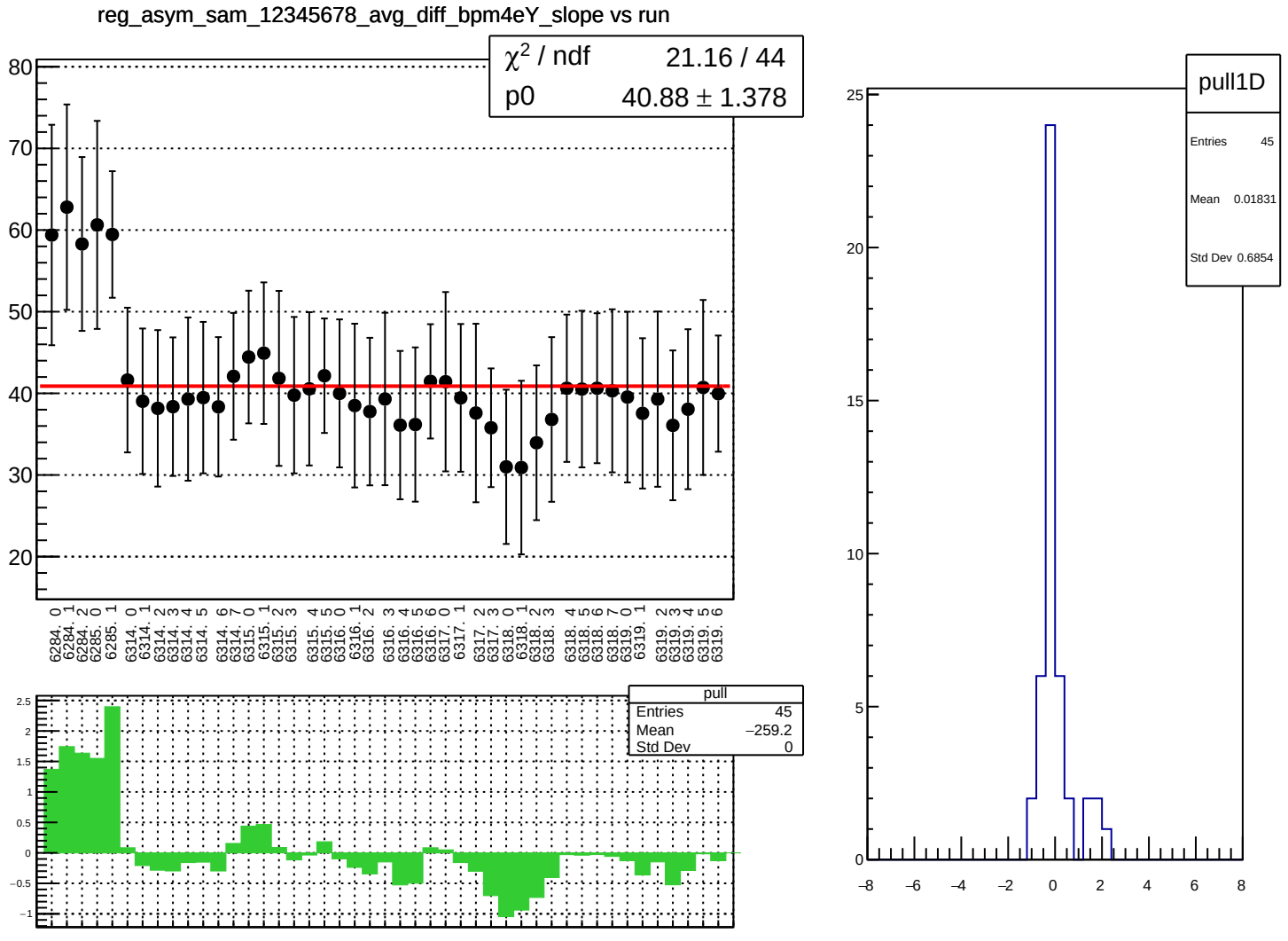

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.078 / 44
p0 0.1365 ± 0.04327
pull
Entries 45
Mean −64.15
Std Dev 0
pull1D
Entries 45
Mean −0.006545
Std Dev 0.2615

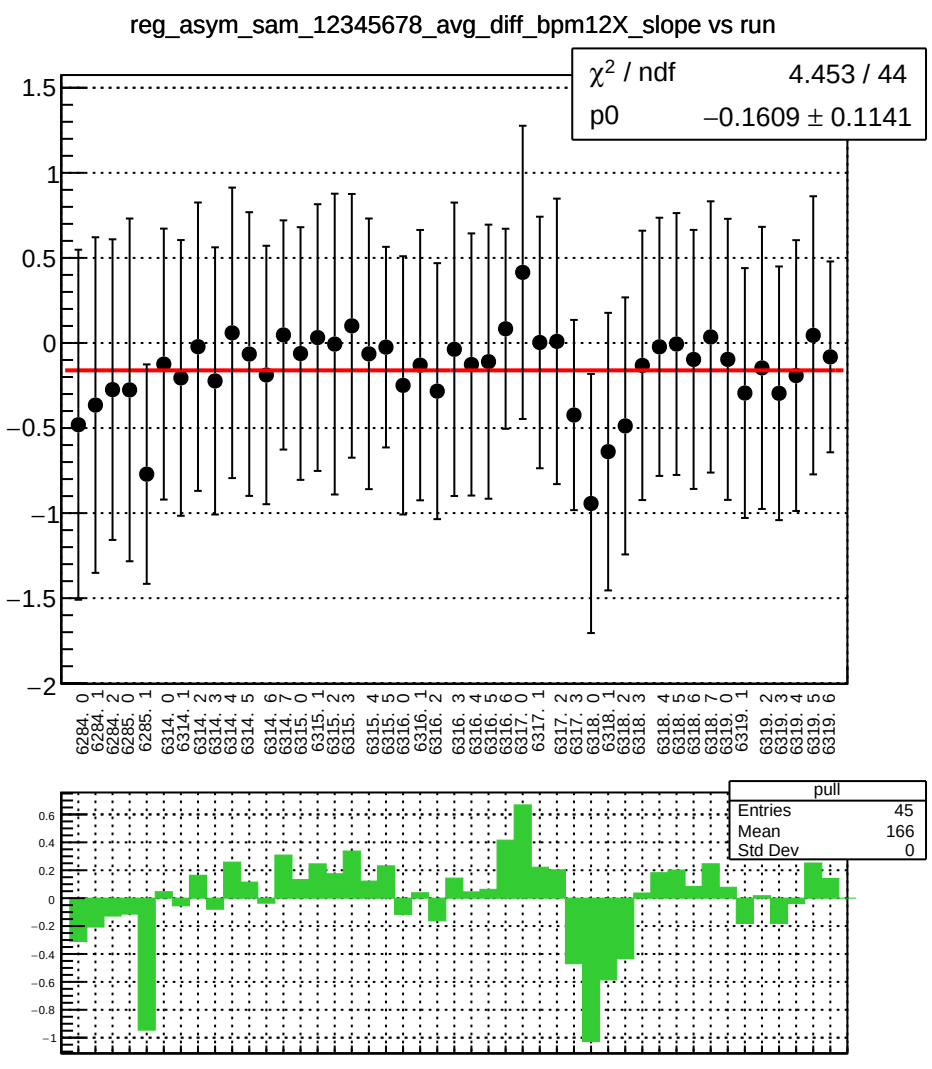

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 11.09 / 44
p0 −4.242 ± 1.53
pull
Entries 45
Mean −402.7
Std Dev 0
pull1D
Entries 45
Mean 0.007995
Std Dev 0.4964

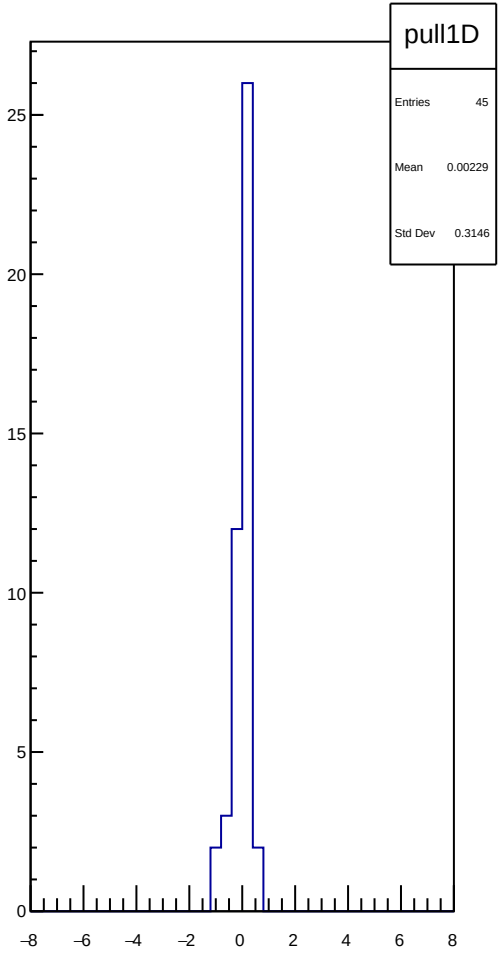

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.964 / 44
p0 −4.678 ± 1.117
pull
Entries 45
Mean −210.8
Std Dev 0

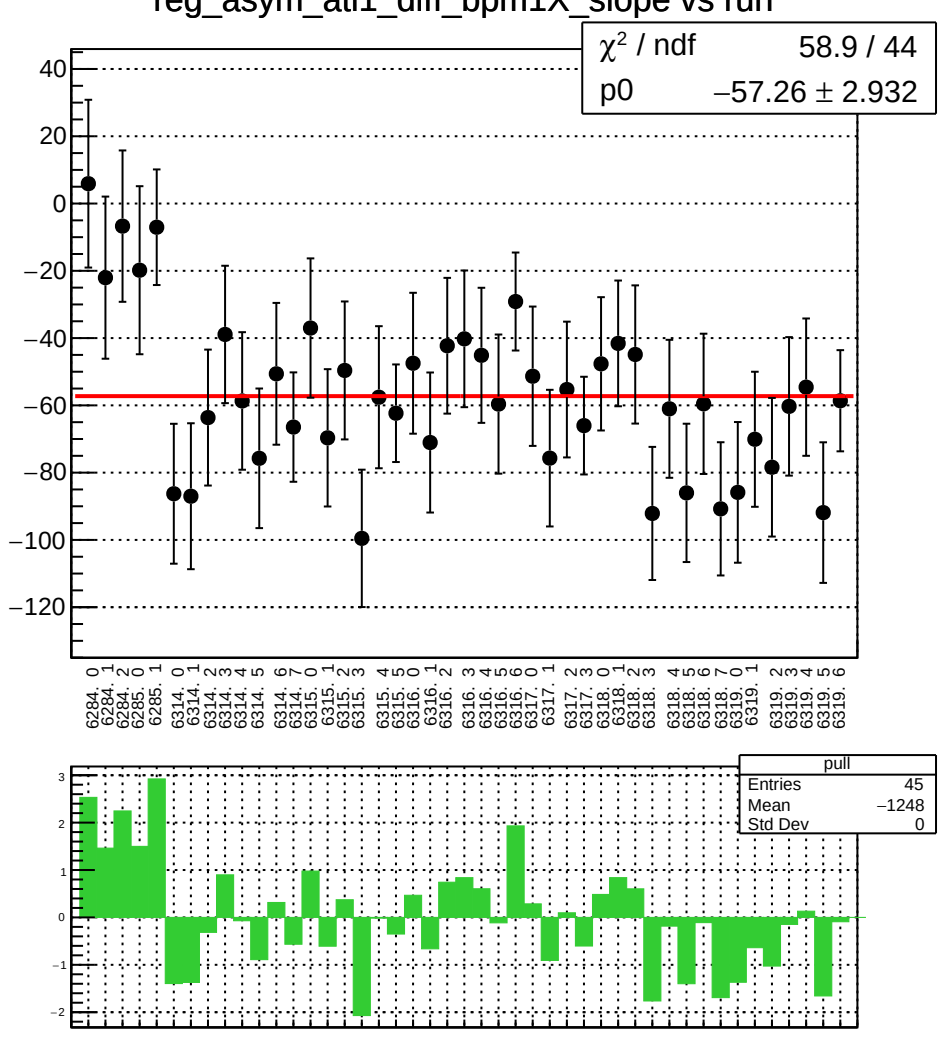

pull1D
Entries 45
Mean −0.01678
Std Dev 0.4703

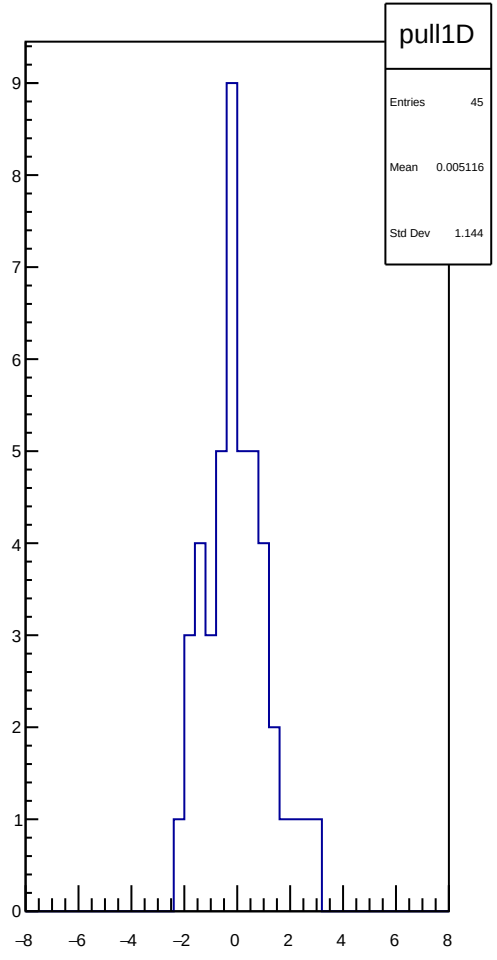

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.229 / 44
p0 −66.63 ± 1.567
−50
−60
−70
−80
−90
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −274.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01157
Std Dev 0.4527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

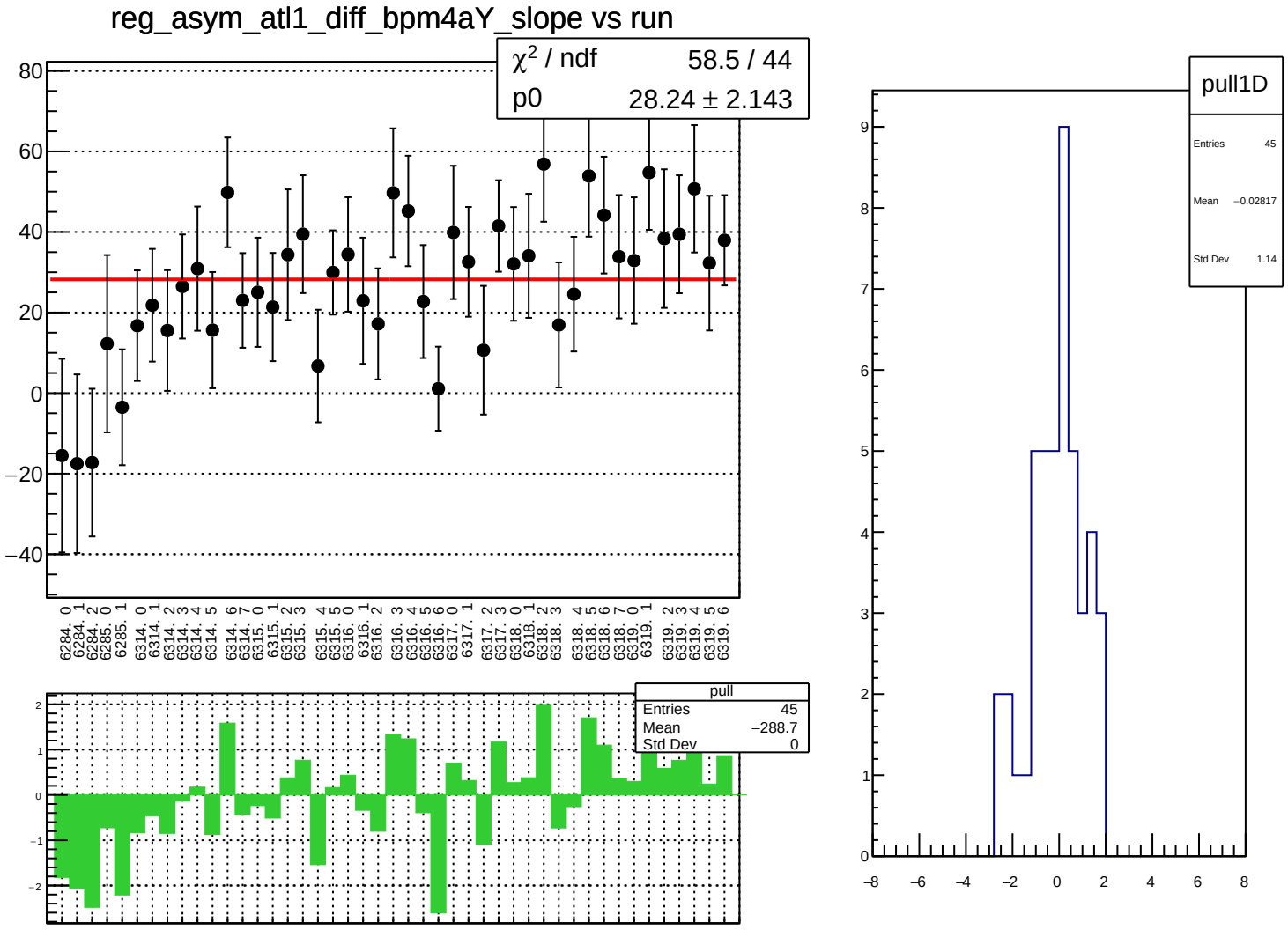

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.16 / 44
p0 40.88 ± 1.378
80
70
60
50
40
30
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −259.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.01831
Std Dev 0.6854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

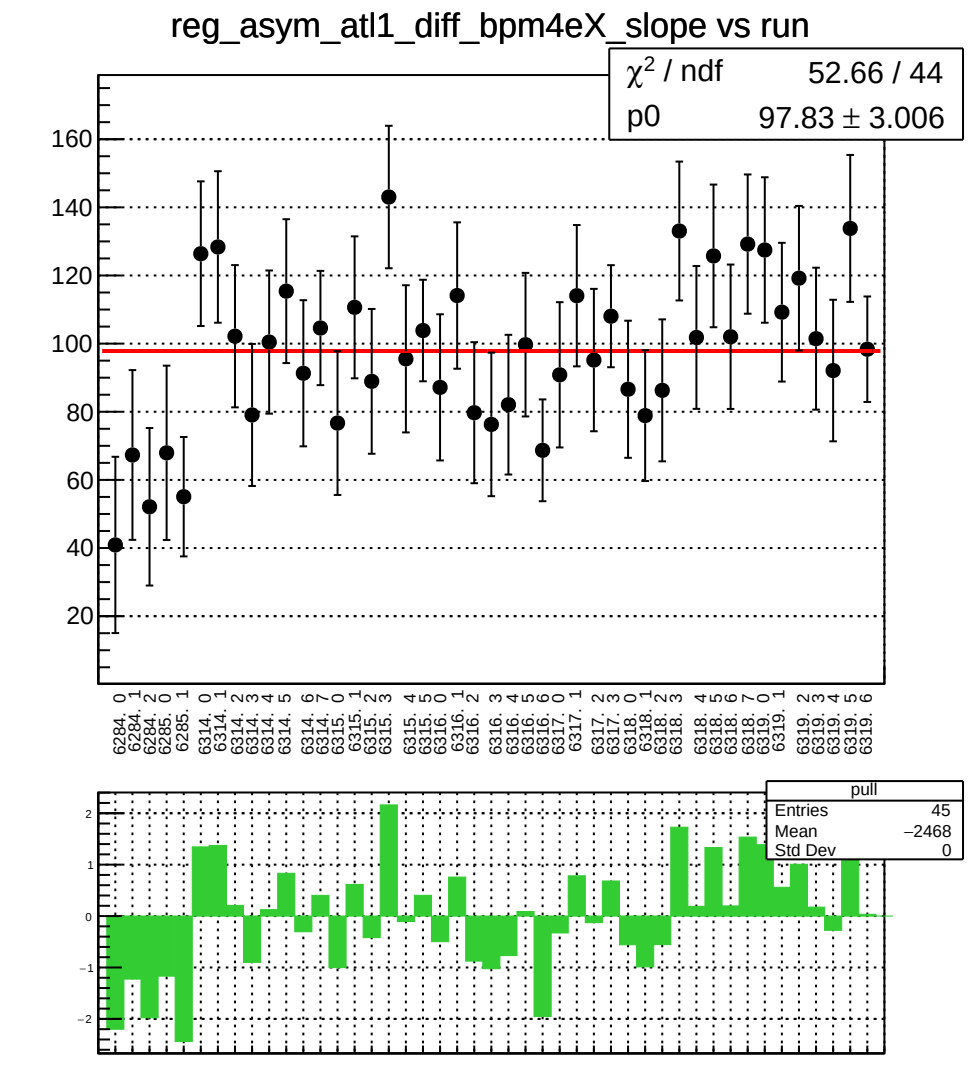

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.453 / 44
p0 −0.1609 ± 0.1141
pull
Entries 45
Mean 166
Std Dev 0

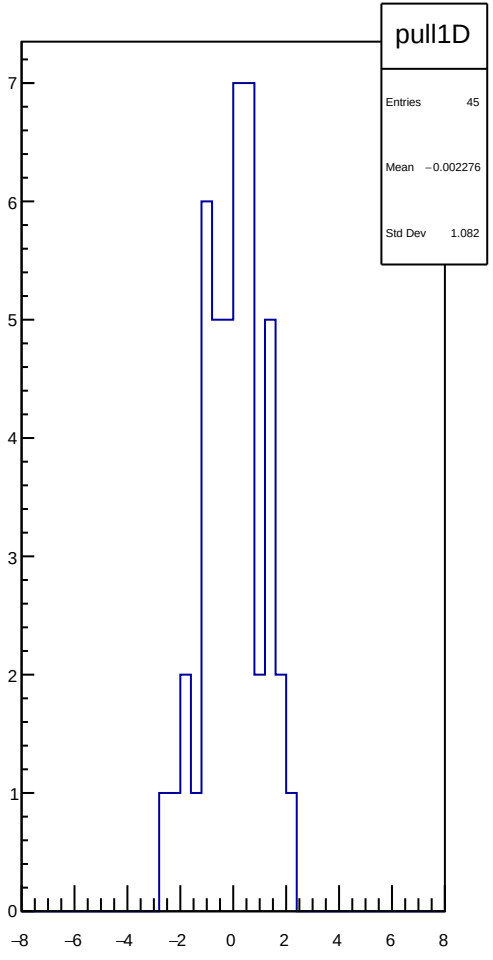

pull1D
Entries 45
Mean 0.00229
Std Dev 0.3146

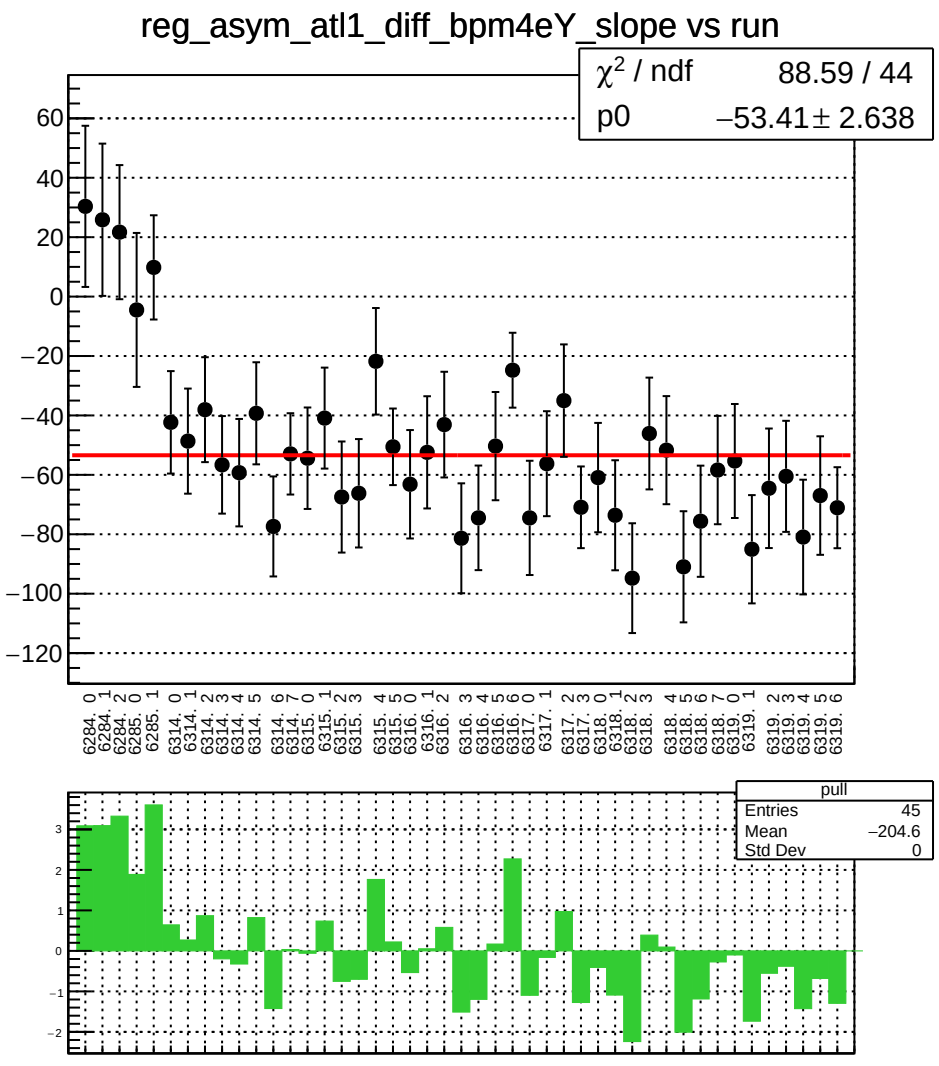

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 58.9 / 44
p0 −57.26 ± 2.932
pull
Entries 45
Mean −1248
Std Dev 0

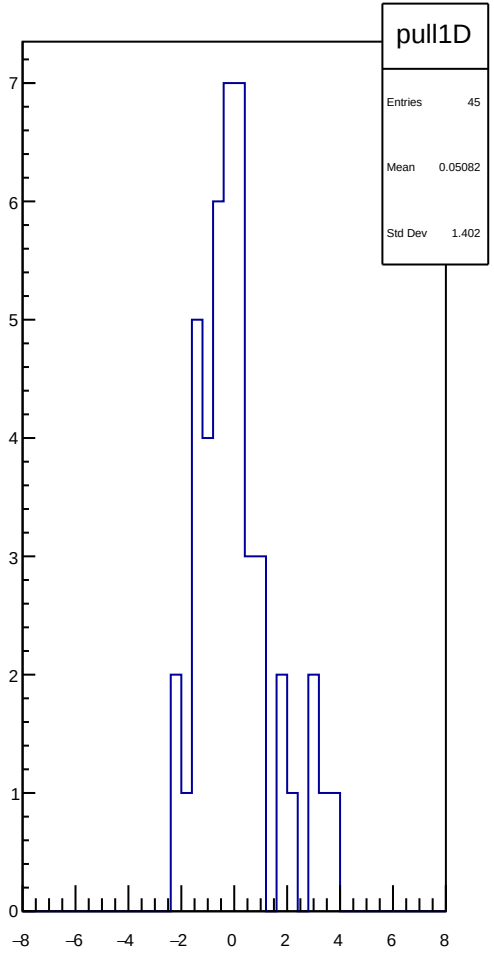

pull1D
Entries 45
Mean 0.005116
Std Dev 1.144

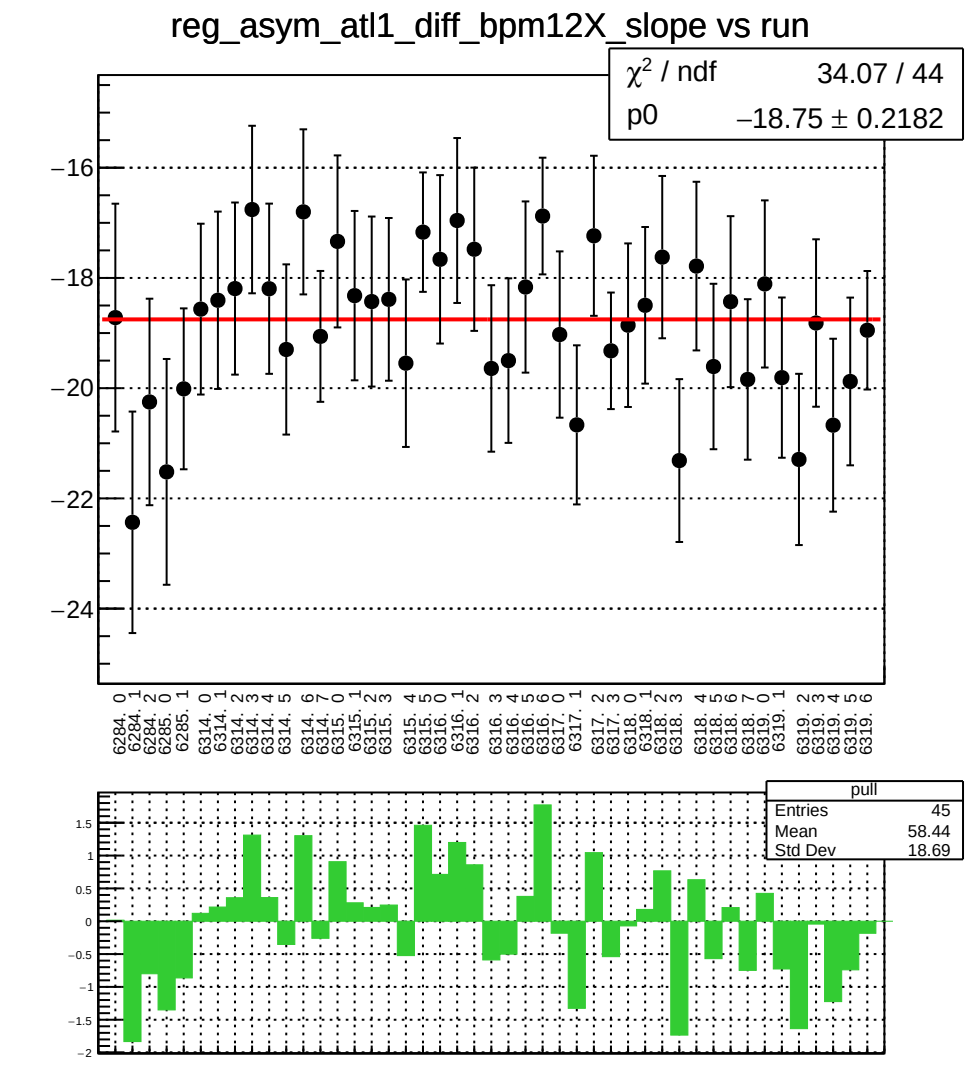

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 58.5 / 44
p0 28.24 ± 2.143
pull
Entries 45
Mean −288.7
Std Dev 0
pull1D
Entries 45
Mean −0.02817
Std Dev 1.14

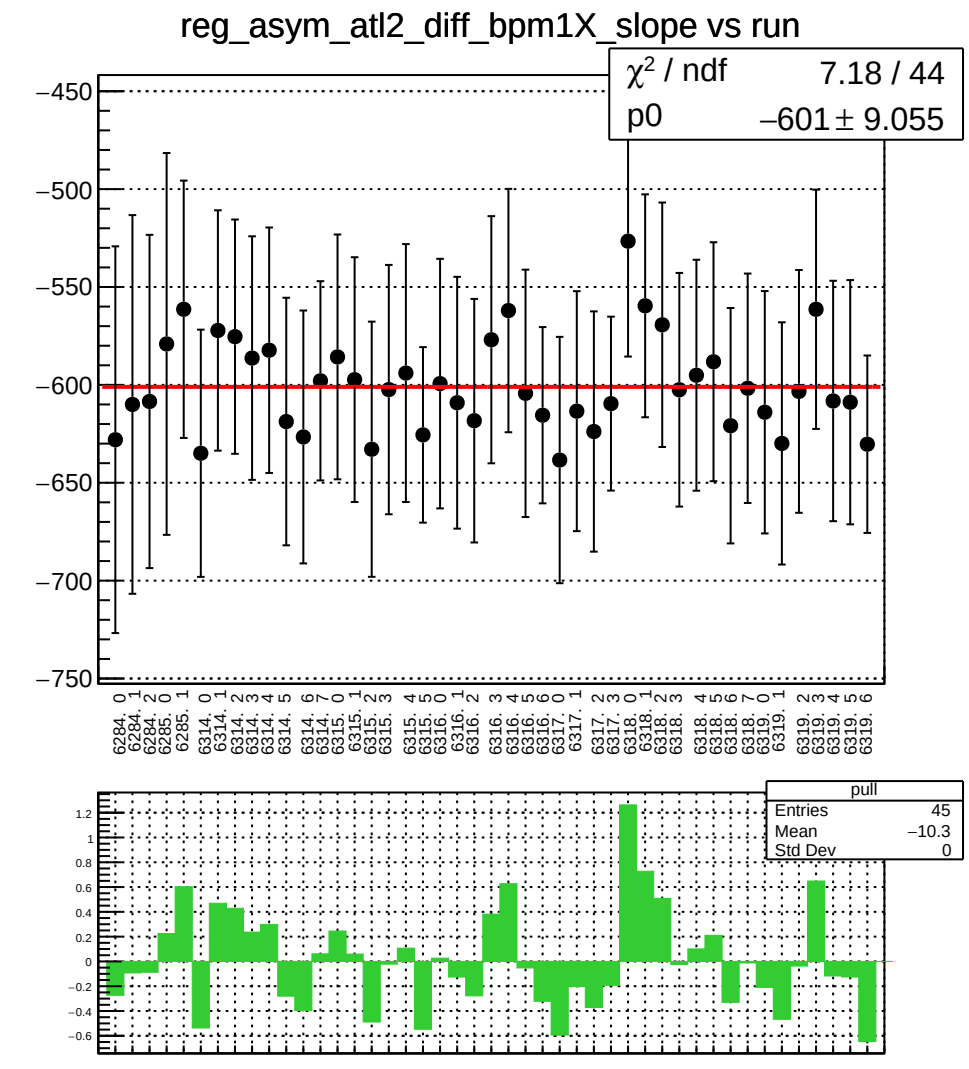

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 52.66 / 44
p0 97.83 ± 3.006
160
140
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −2468
Std Dev 0
2
1
0
−1
−2

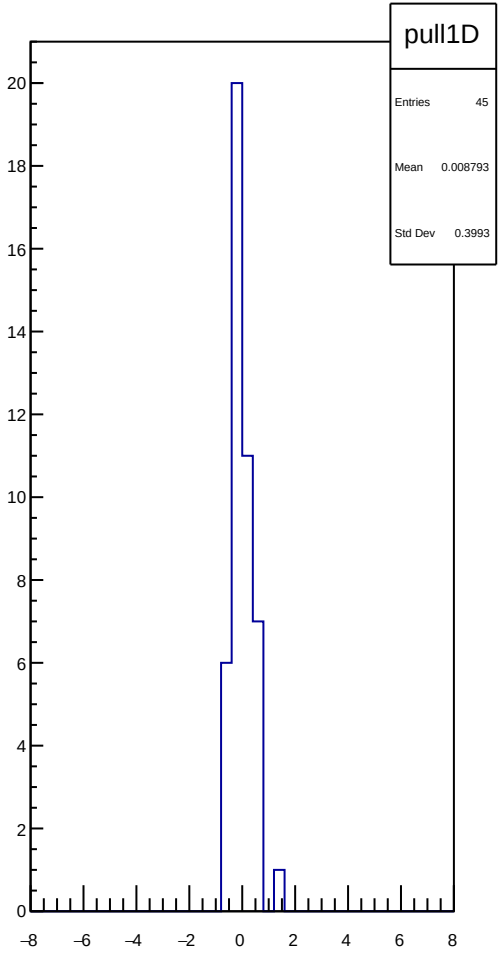

pull1D
Entries 45
Mean −0.002276
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

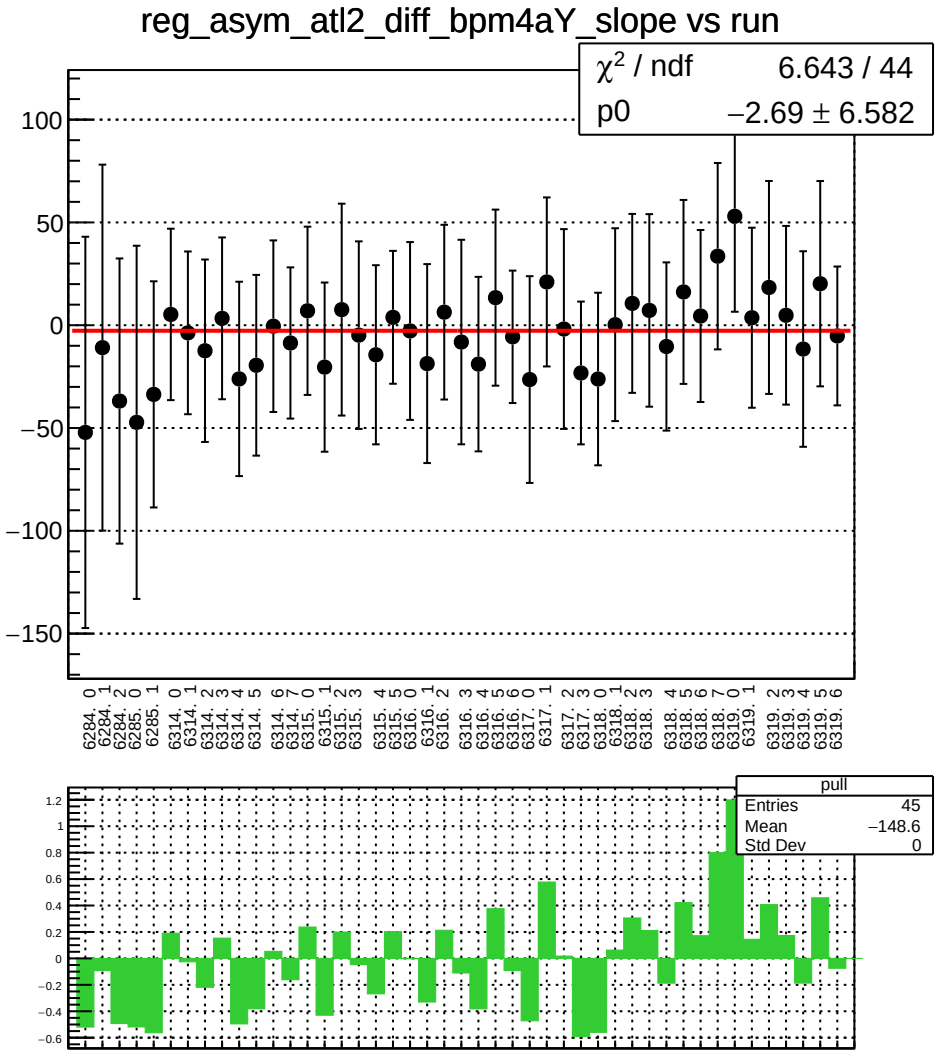

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 88.59 / 44
p0 −53.41 ± 2.638
pull
Entries 45
Mean −204.6
Std Dev 0

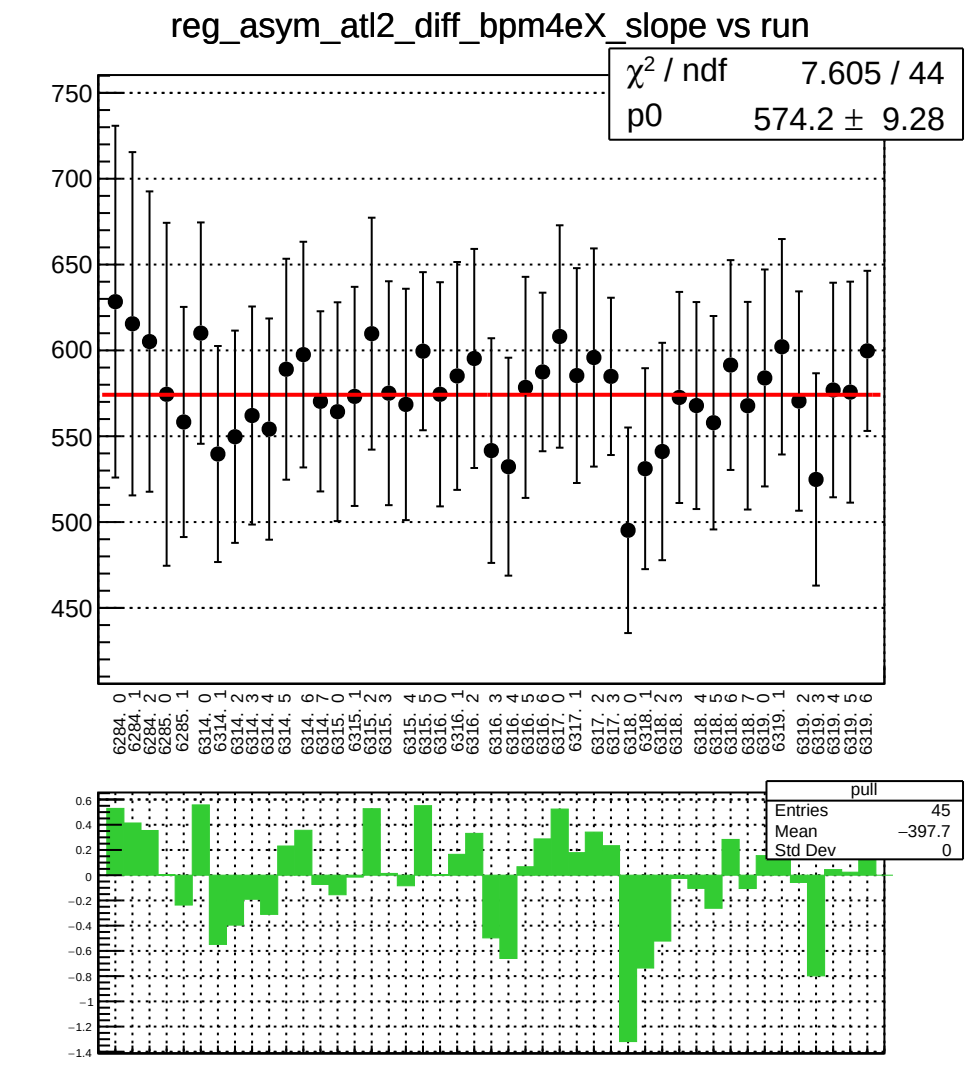

pull1D
Entries 45
Mean 0.05082
Std Dev 1.402

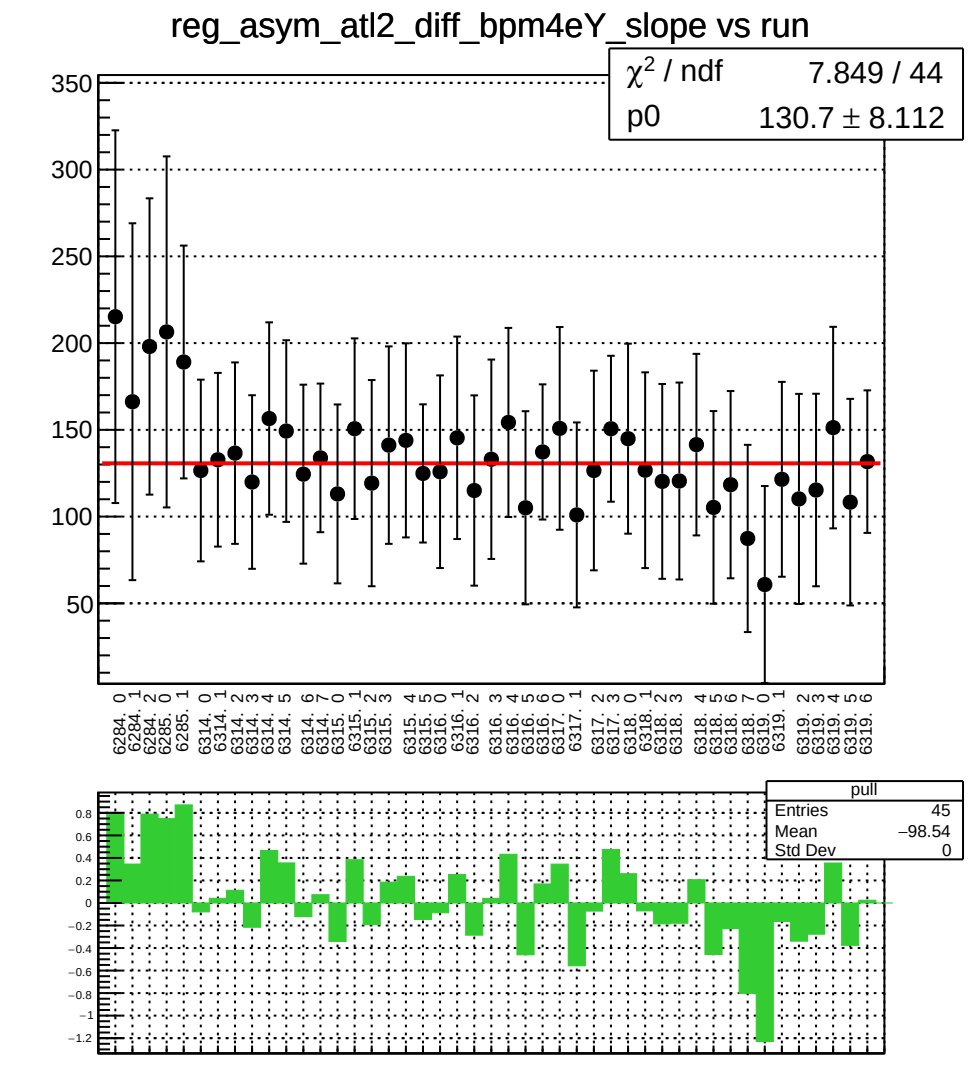

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 34.07 / 44
p0 −18.75 ± 0.2182
−16
−18
−20
−22
−24
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 58.44
Std Dev 18.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04063
Std Dev 0.8692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

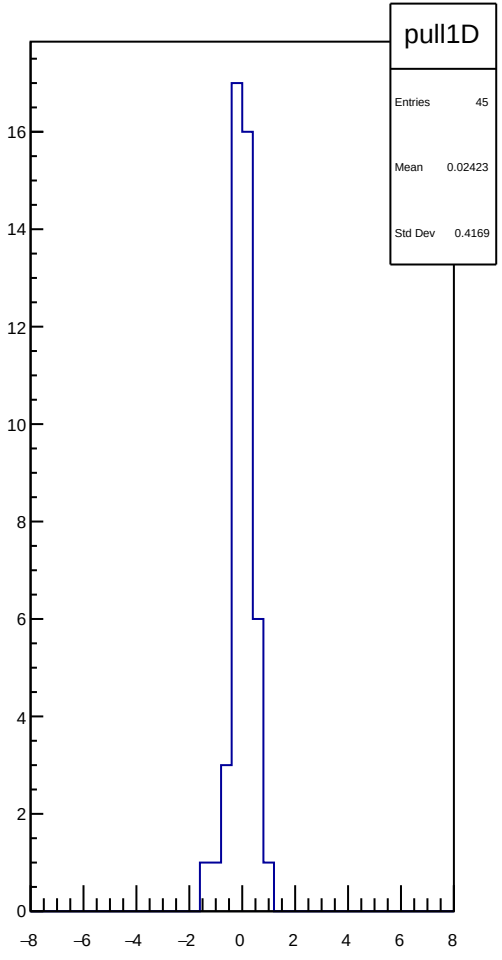

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.18 / 44
p0 −601 ± 9.055
pull
Entries 45
Mean −10.3
Std Dev 0

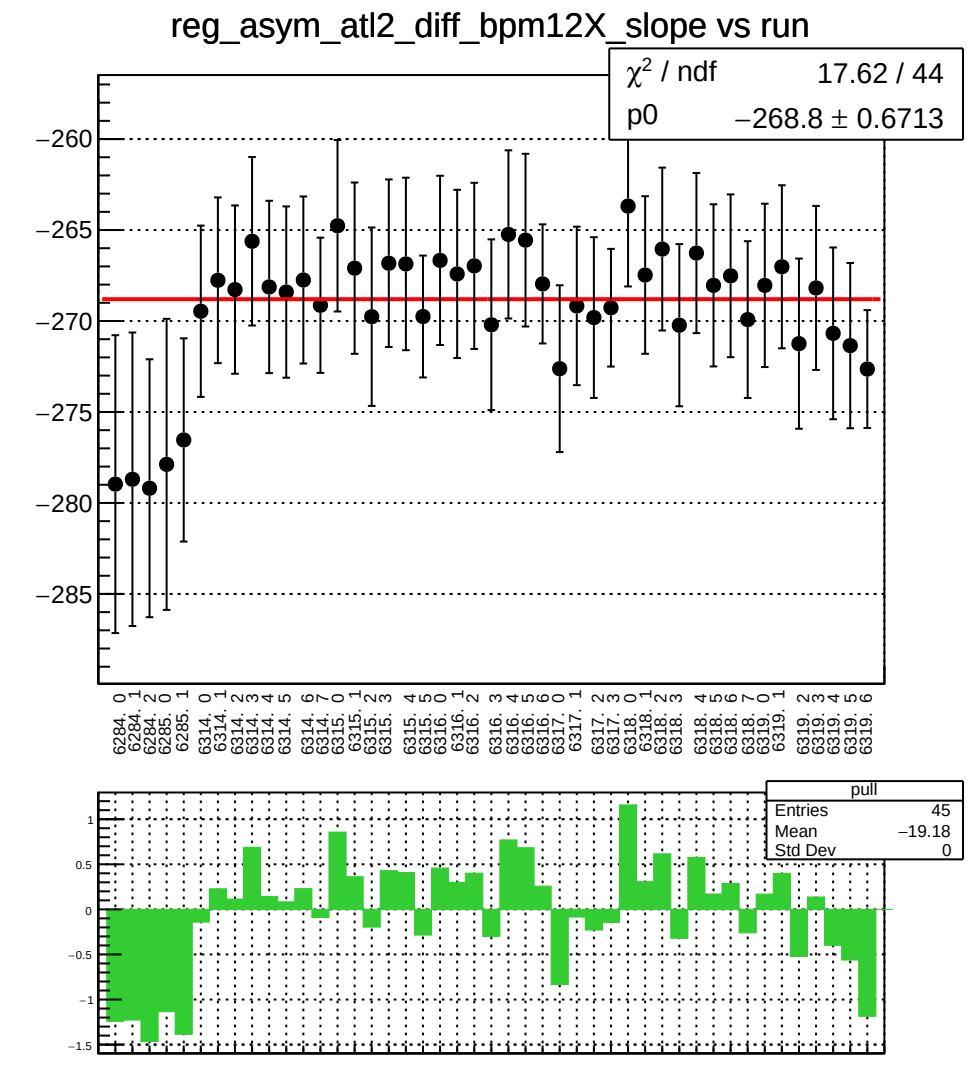

pull1D
Entries 45
Mean 0.008793
Std Dev 0.3993

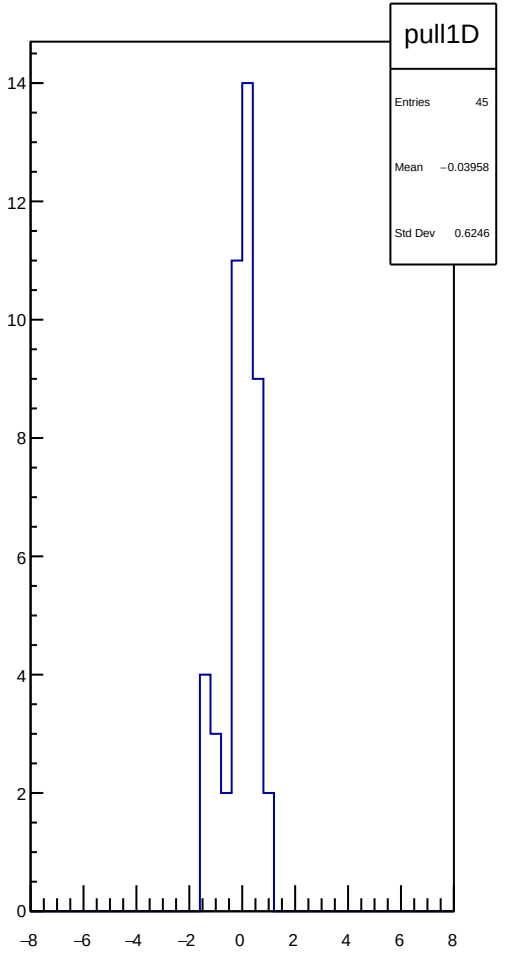

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.643 / 44
p0 −2.69 ± 6.582
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −148.6
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.01396
Std Dev 0.384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

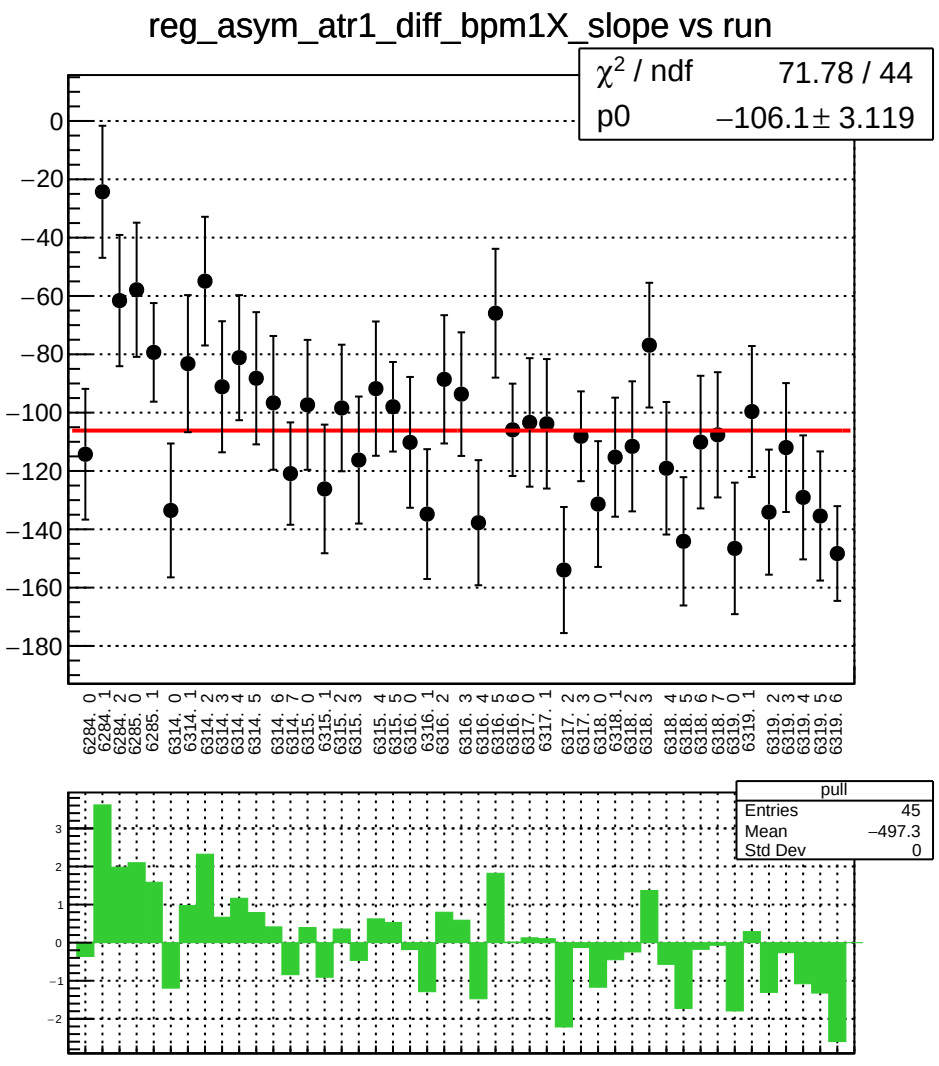

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 7.605 / 44
p0 574.2 ± 9.28
750
700
650
600
550
500
450
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −397.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 45
Mean 0.001722
Std Dev 0.4111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

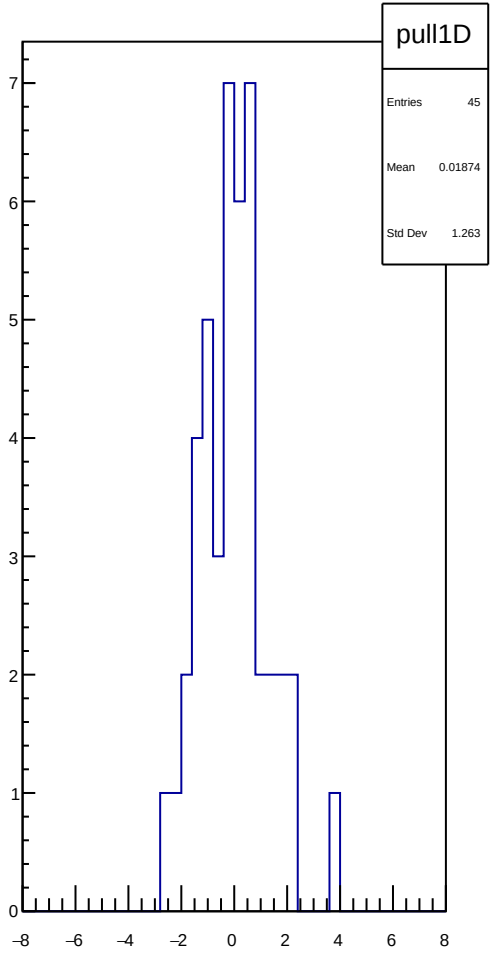

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.849 / 44
p0 130.7 ± 8.112
pull
Entries 45
Mean −98.54
Std Dev 0

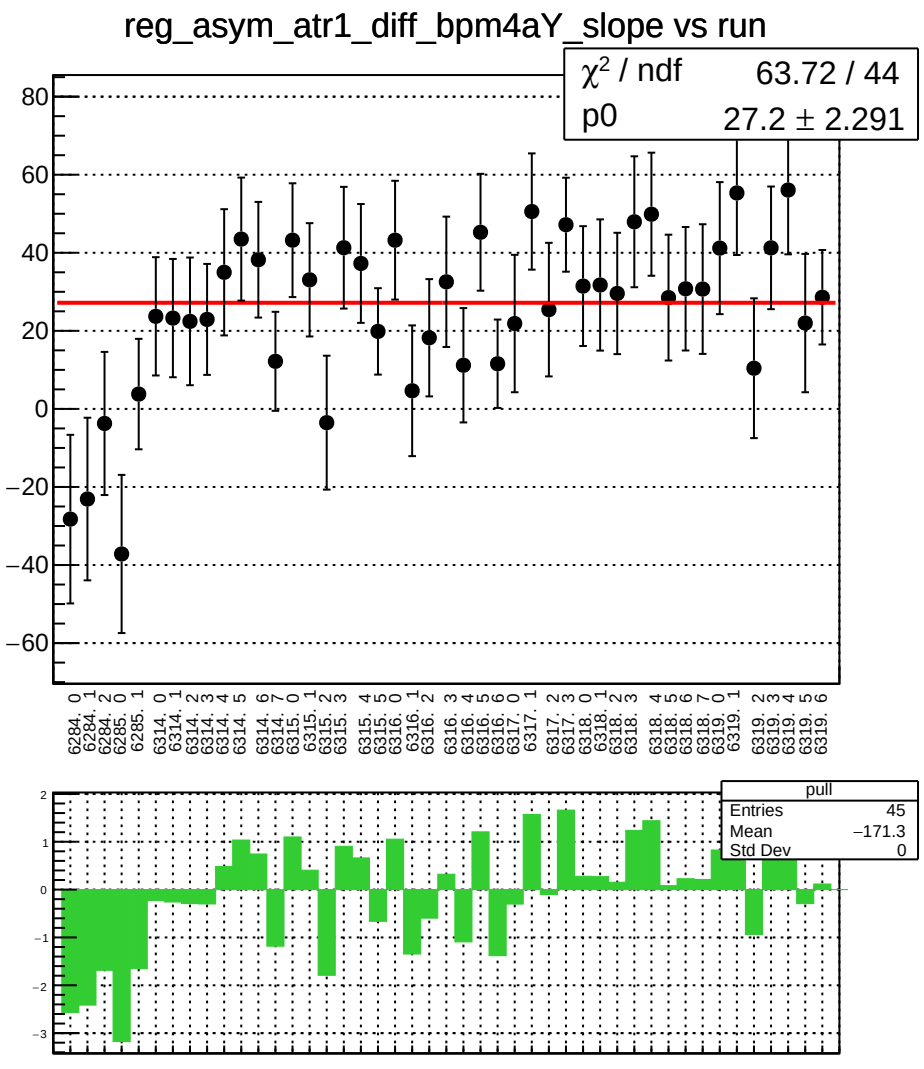

pull1D
Entries 45
Mean 0.02423
Std Dev 0.4169

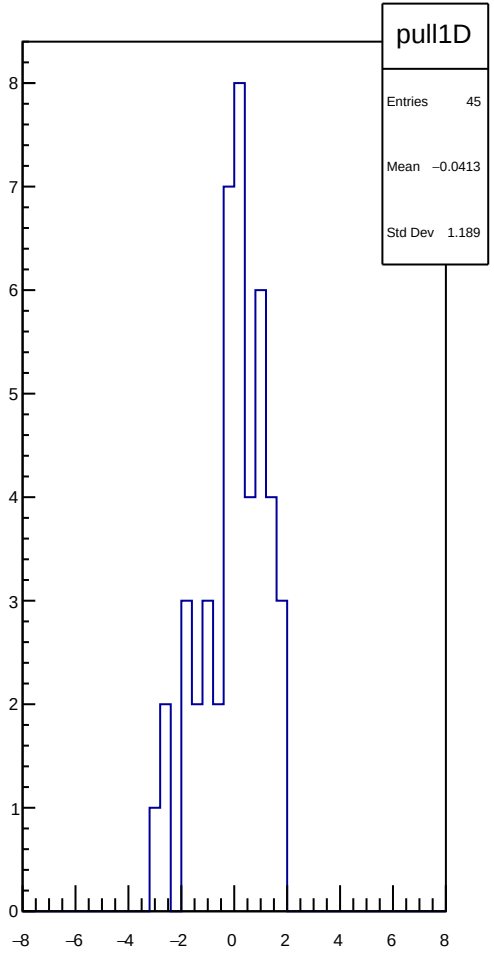

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 17.62 / 44
p0 −268.8 ± 0.6713
−260
−265
−270
−275
−280
−285
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −19.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

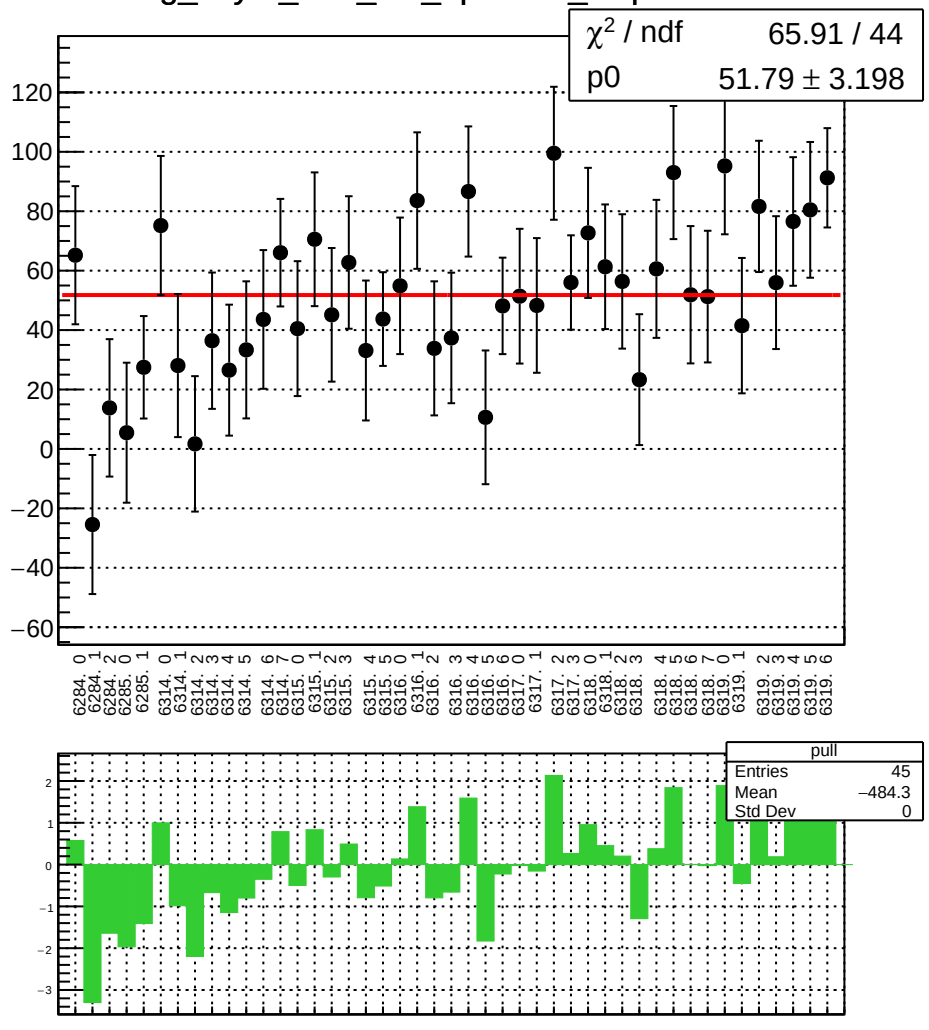

pull1D
Entries 45
Mean −0.03958
Std Dev 0.6246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

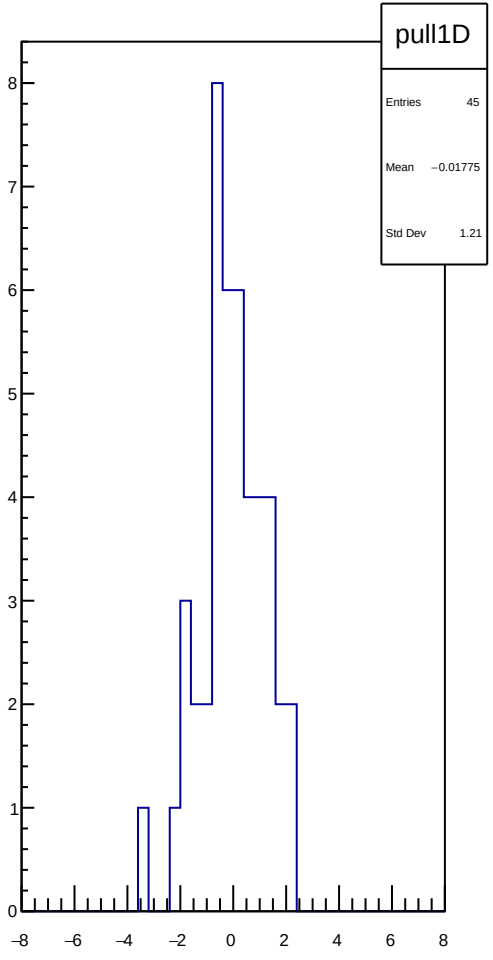

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 71.78 / 44
p0 −106.1± 3.119
pull
Entries 45
Mean −497.3
Std Dev 0

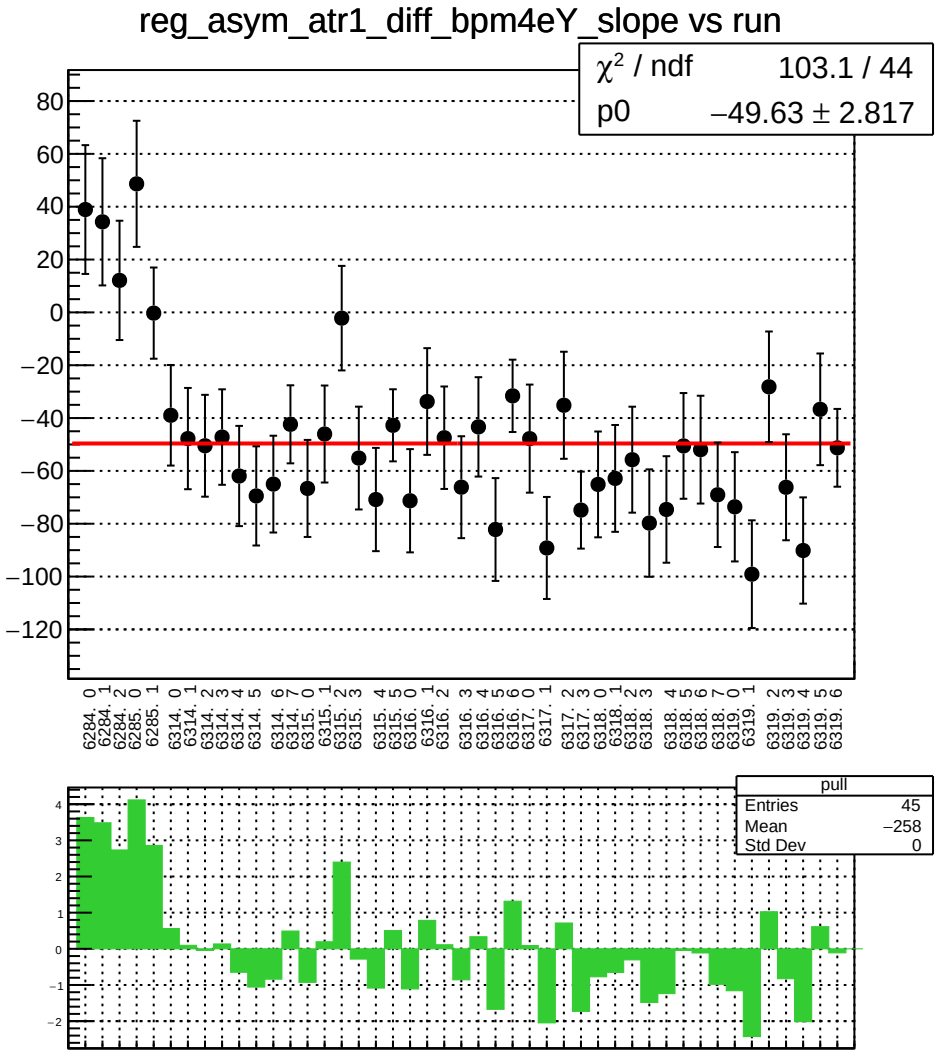

pull1D
Entries 45
Mean 0.01874
Std Dev 1.263

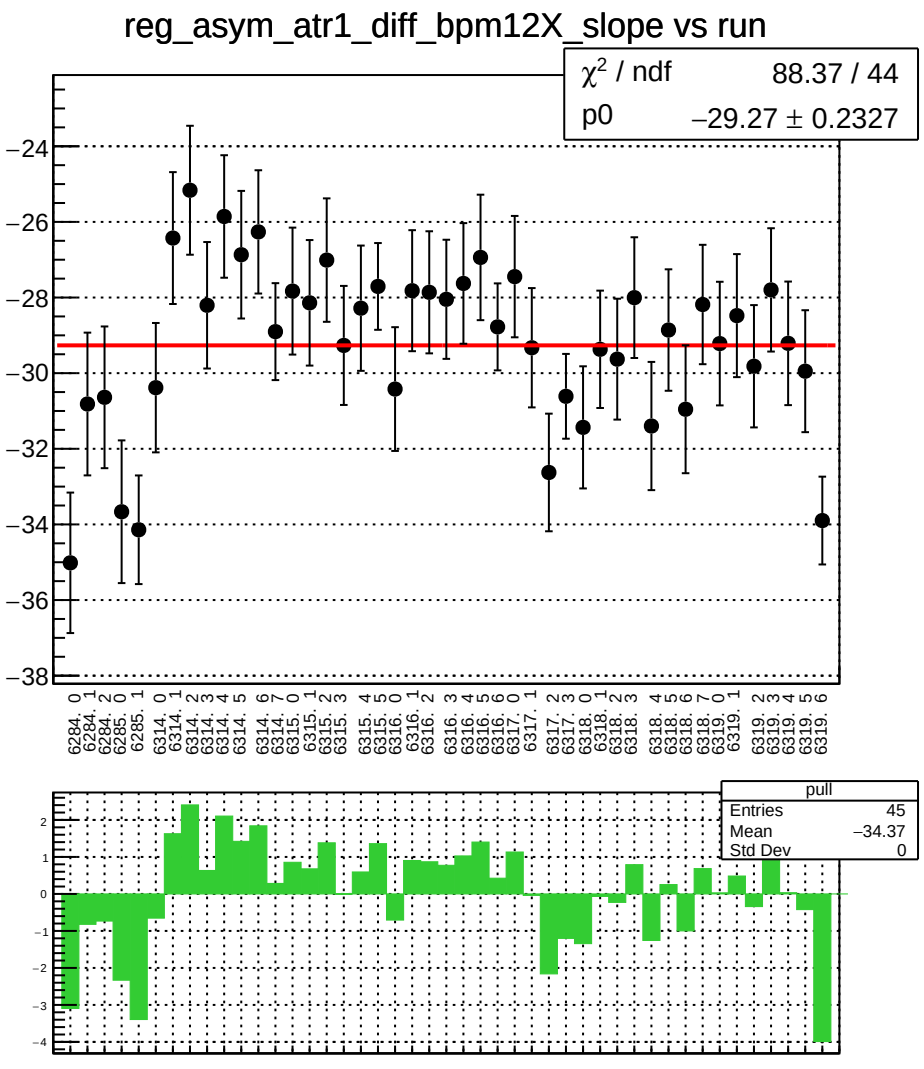

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 63.72 / 44
p0 27.2 ± 2.291
pull
Entries 45
Mean −171.3
Std Dev 0

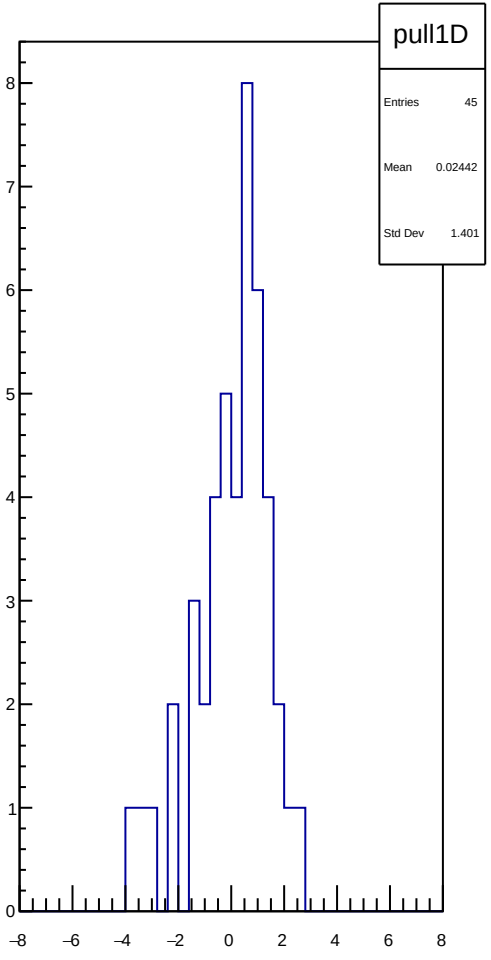

pull1D
Entries 45
Mean −0.0413
Std Dev 1.189

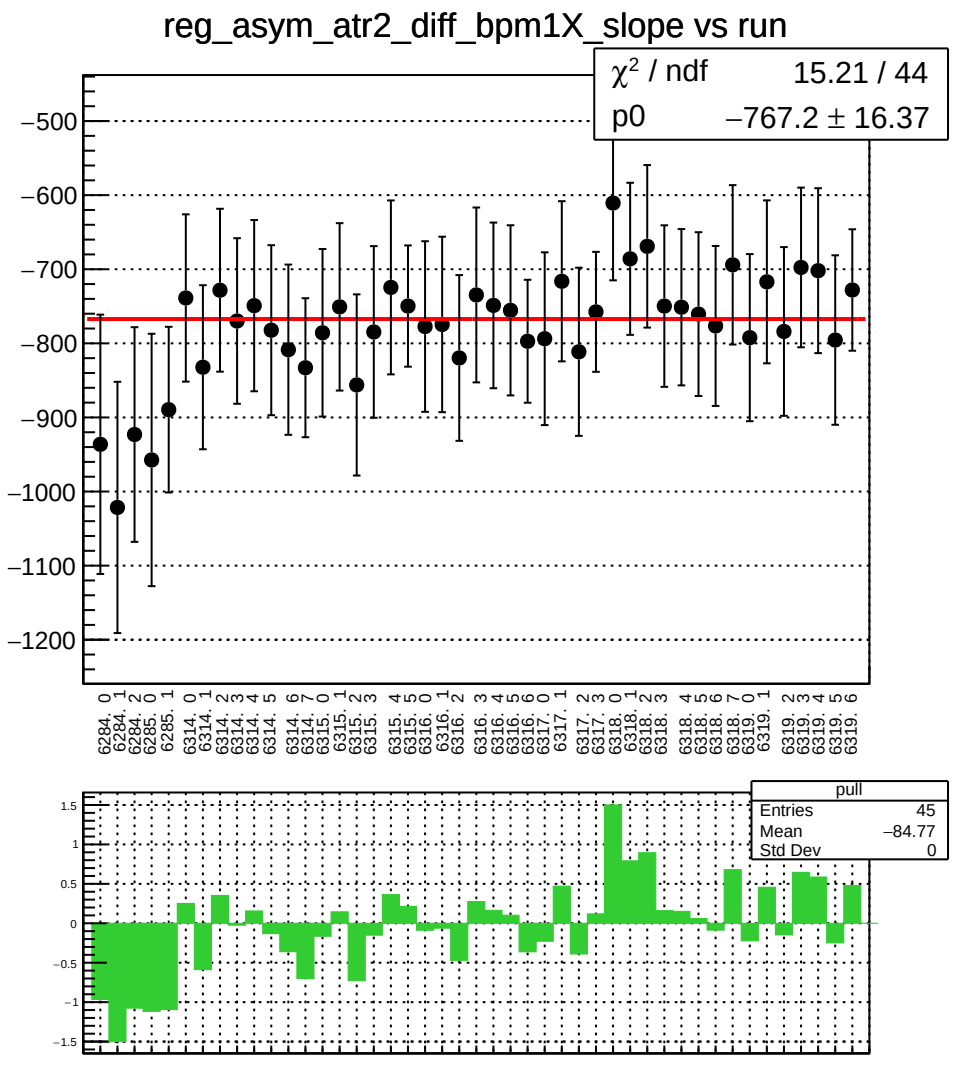

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 65.91 / 44
p0 51.79 ± 3.198
pull
Entries 45
Mean −484.3
Std Dev 0

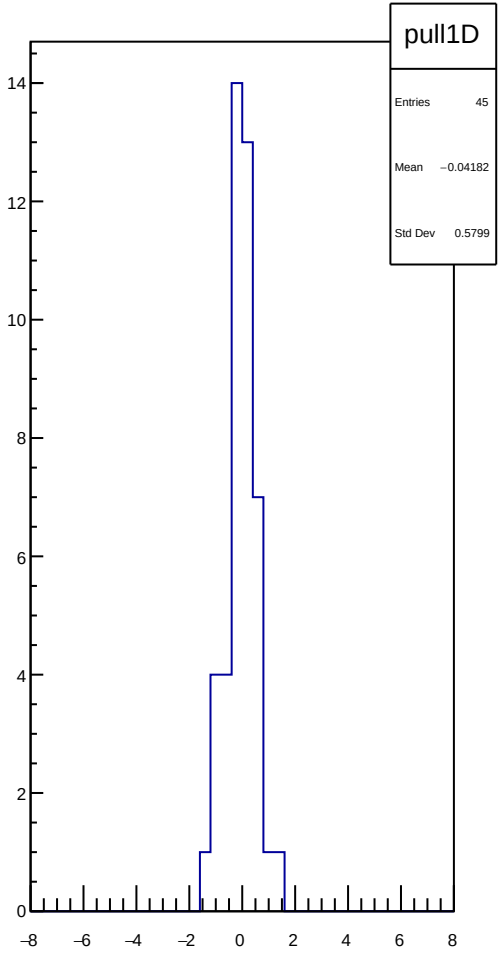

pull1D
Entries 45
Mean −0.01775
Std Dev 1.21

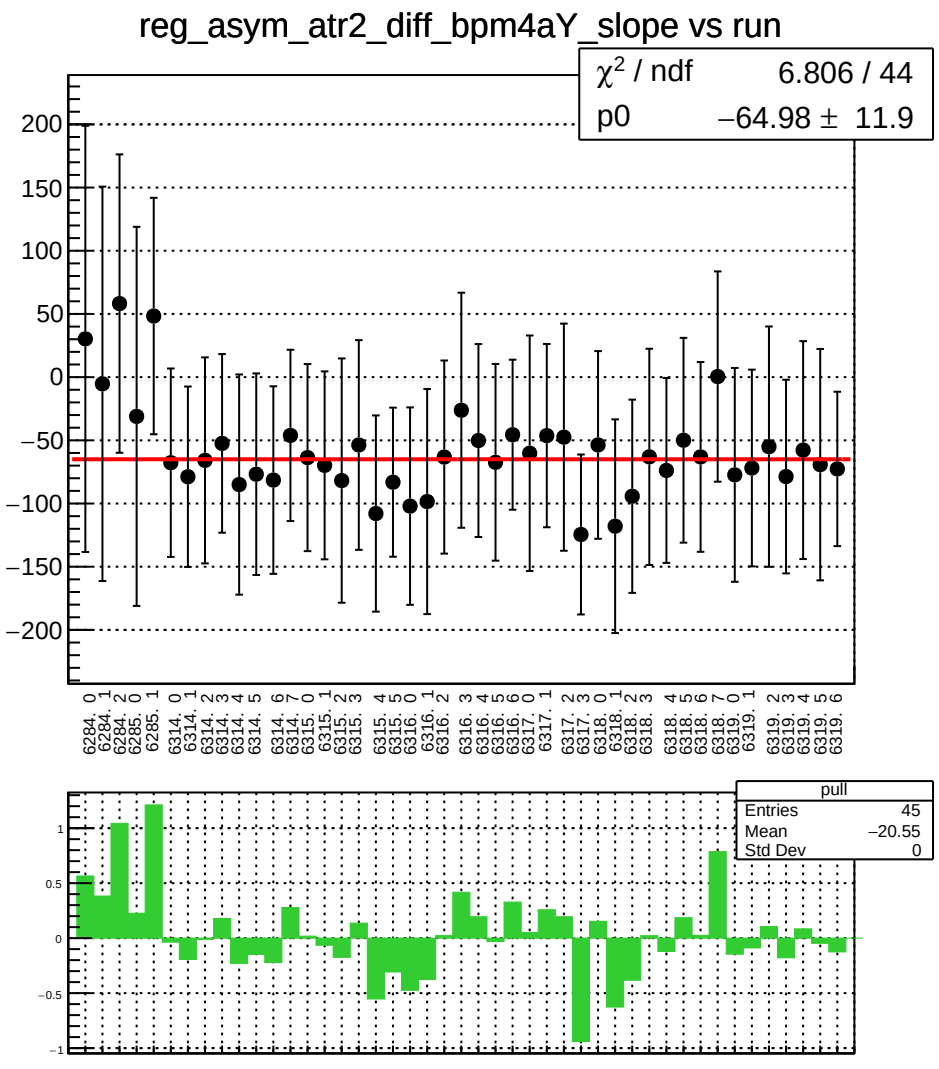

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 103.1 / 44
p0 −49.63 ± 2.817
pull
Entries 45
Mean −258
Std Dev 0
pull1D
Entries 45
Mean 0.03918
Std Dev 1.513

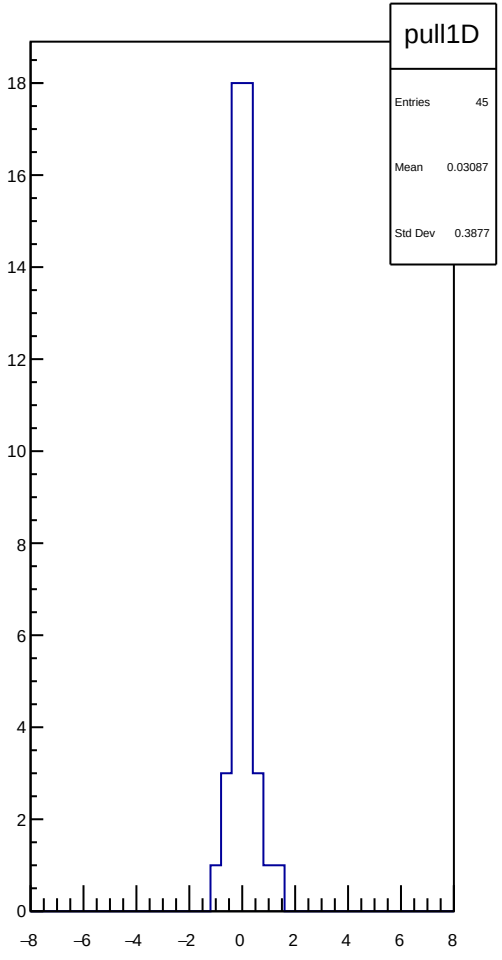

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 88.37 / 44
p0 −29.27 ± 0.2327
pull
Entries 45
Mean −34.37
Std Dev 0

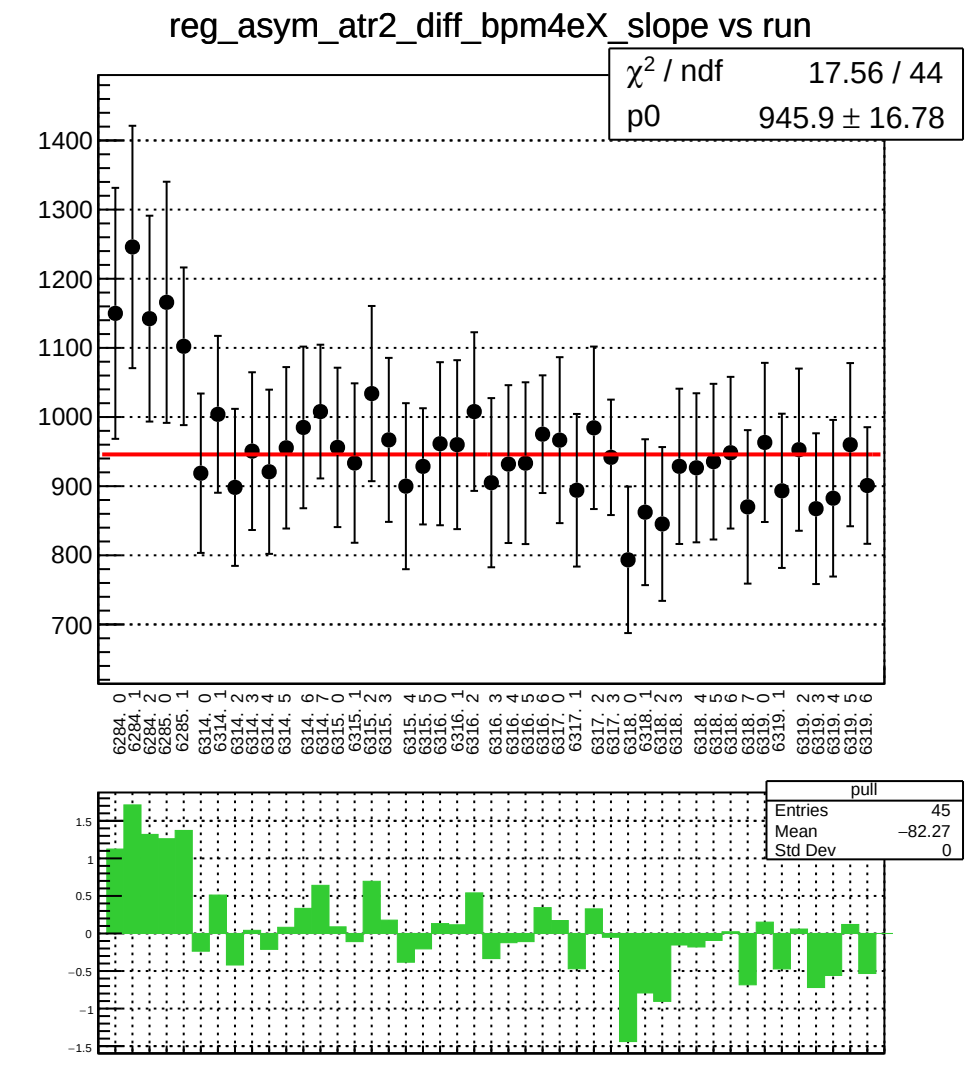

pull1D
Entries 45
Mean 0.02442
Std Dev 1.401

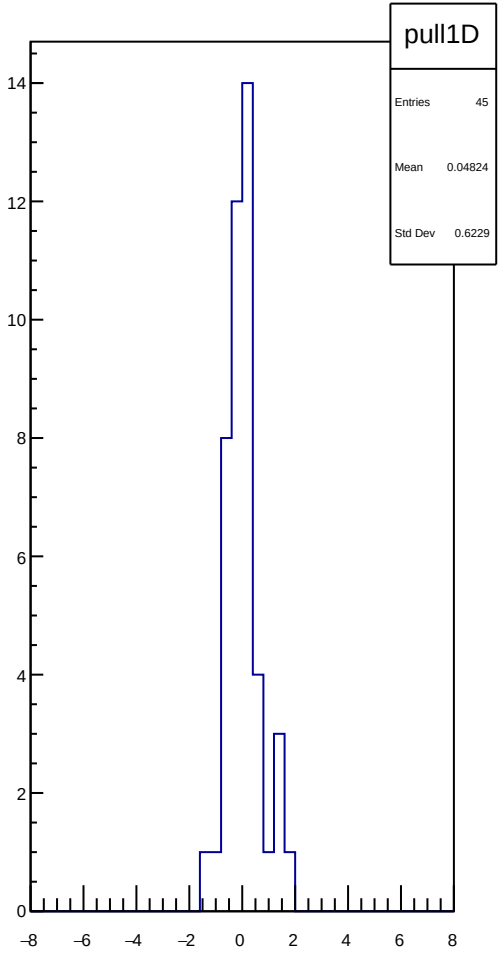

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 15.21 / 44
p0 −767.2 ± 16.37
pull
Entries 45
Mean −84.77
Std Dev 0

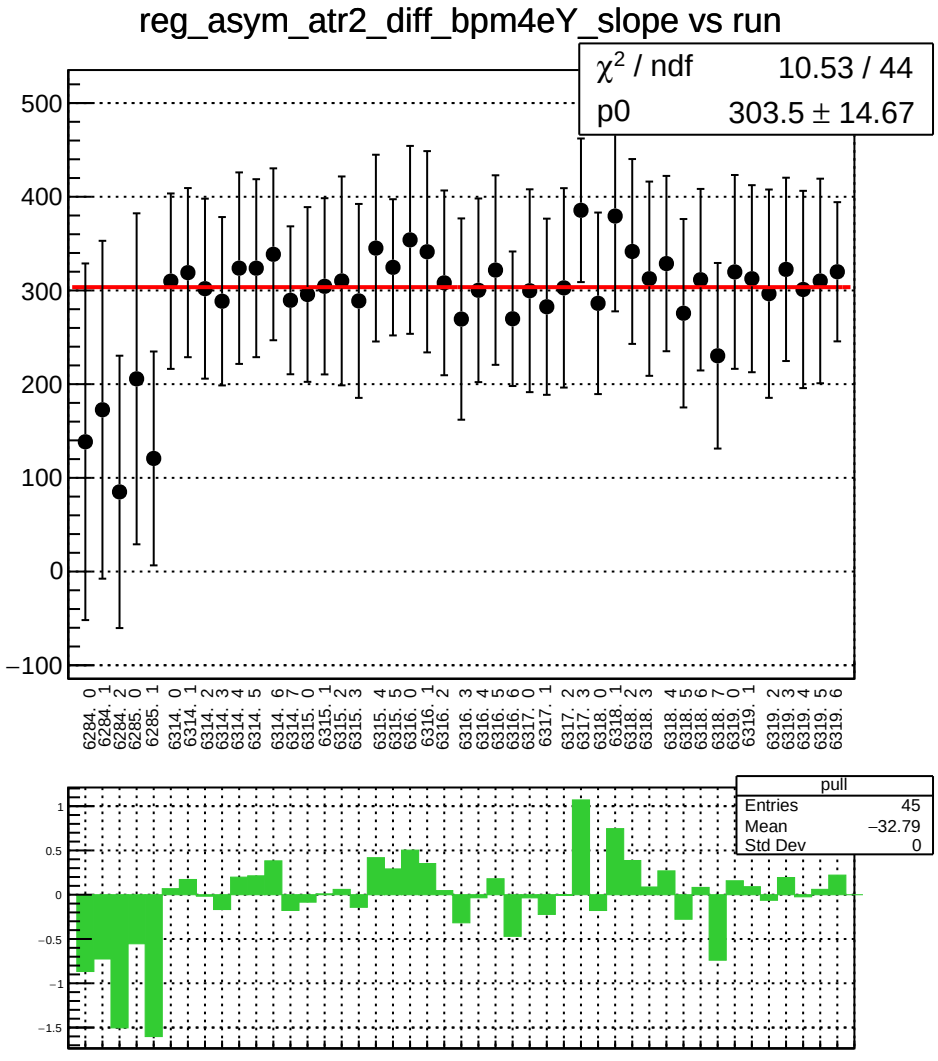

pull1D
Entries 45
Mean −0.04182
Std Dev 0.5799

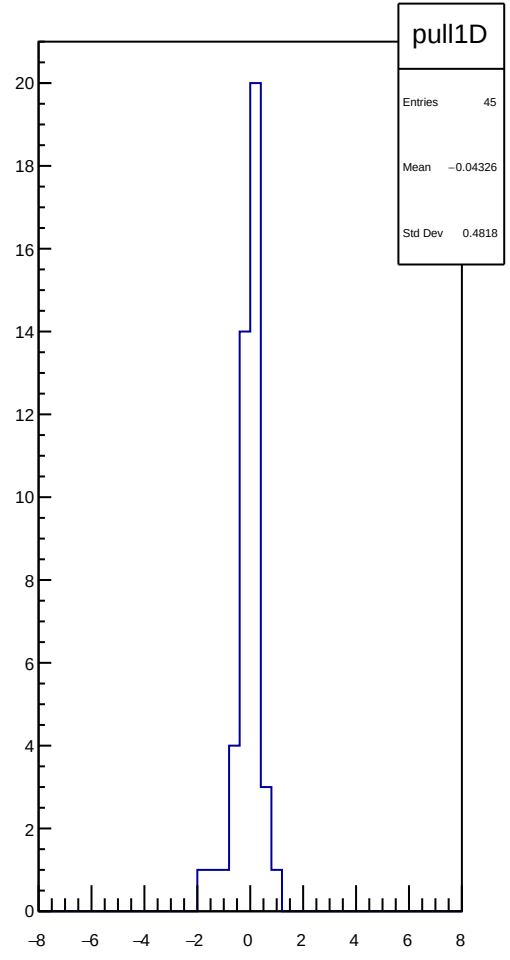

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.806 / 44
p0 −64.98 ± 11.9
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −20.55
Std Dev 0
1
0.5
0
−0.5
−1

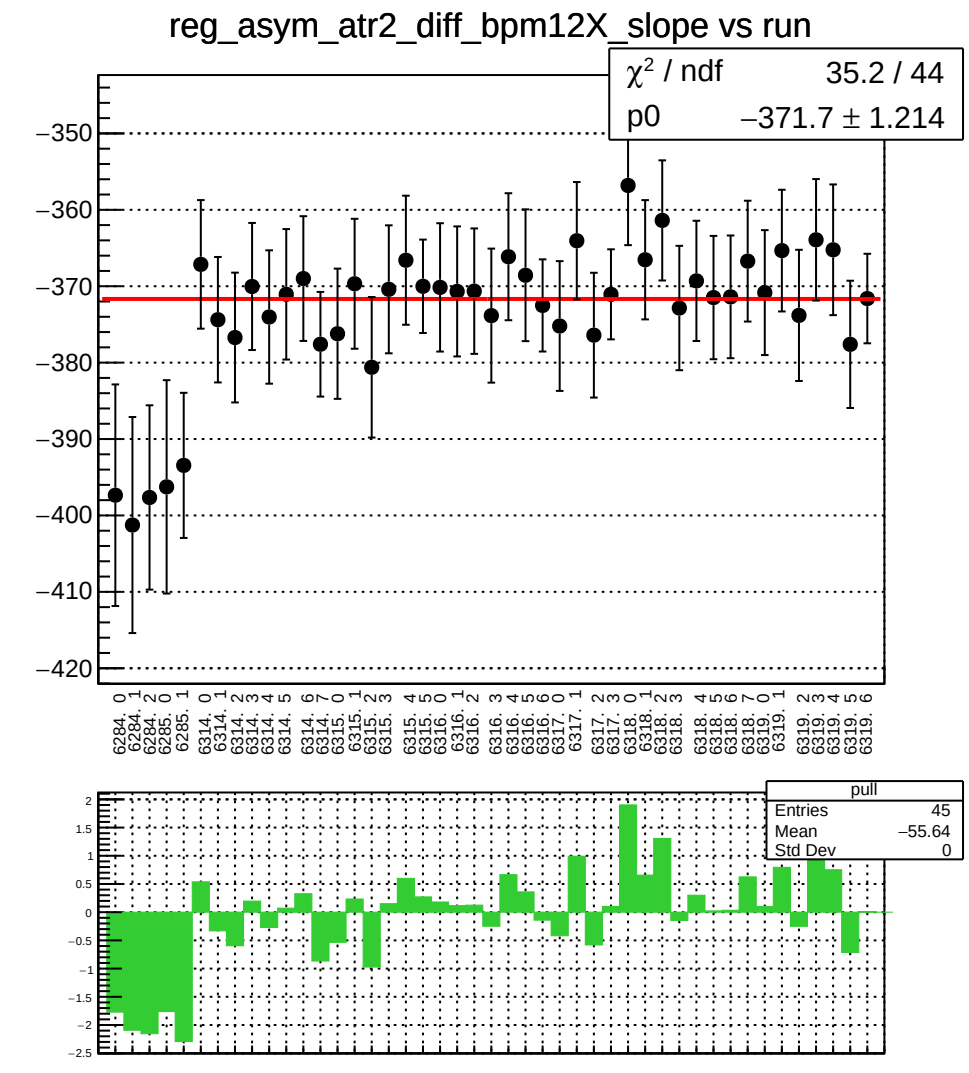

pull1D
Entries 45
Mean 0.03087
Std Dev 0.3877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

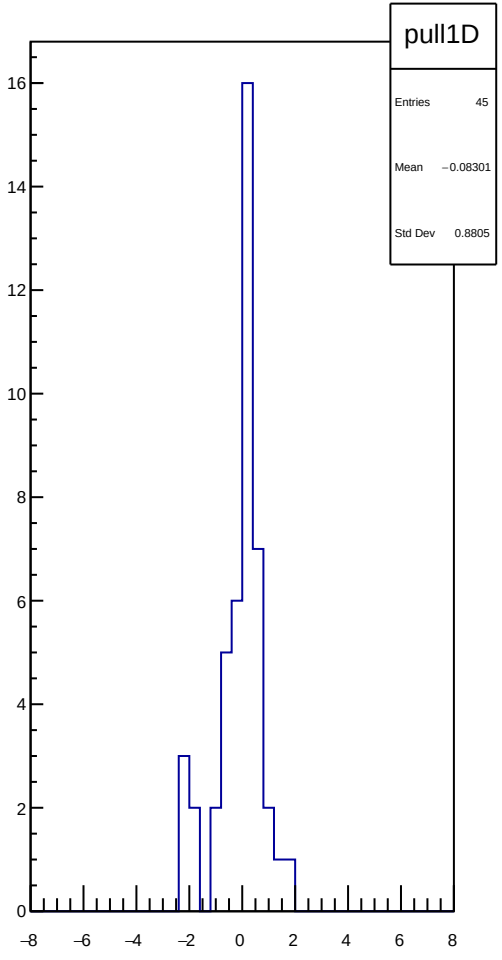

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 17.56 / 44
p0 945.9 ± 16.78
pull
Entries 45
Mean −82.27
Std Dev 0

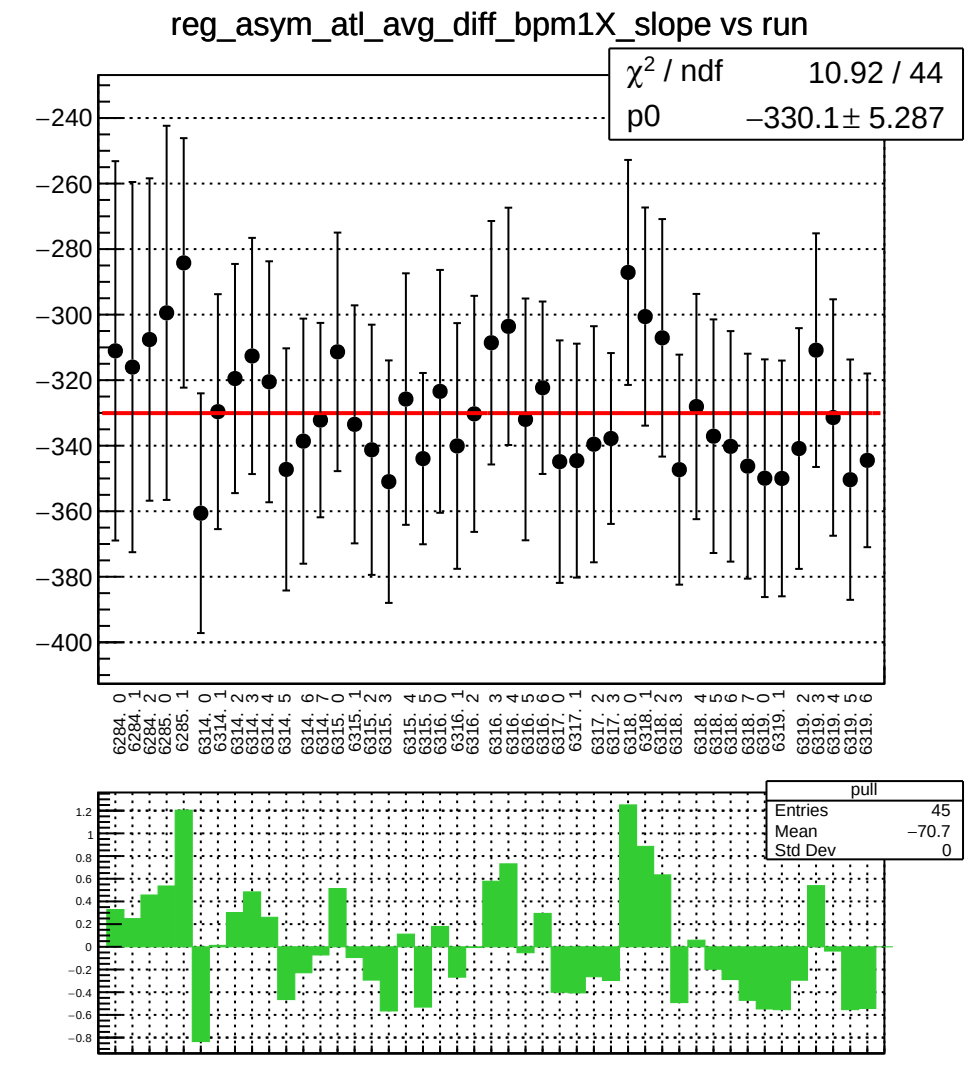

pull1D
Entries 45
Mean 0.04824
Std Dev 0.6229

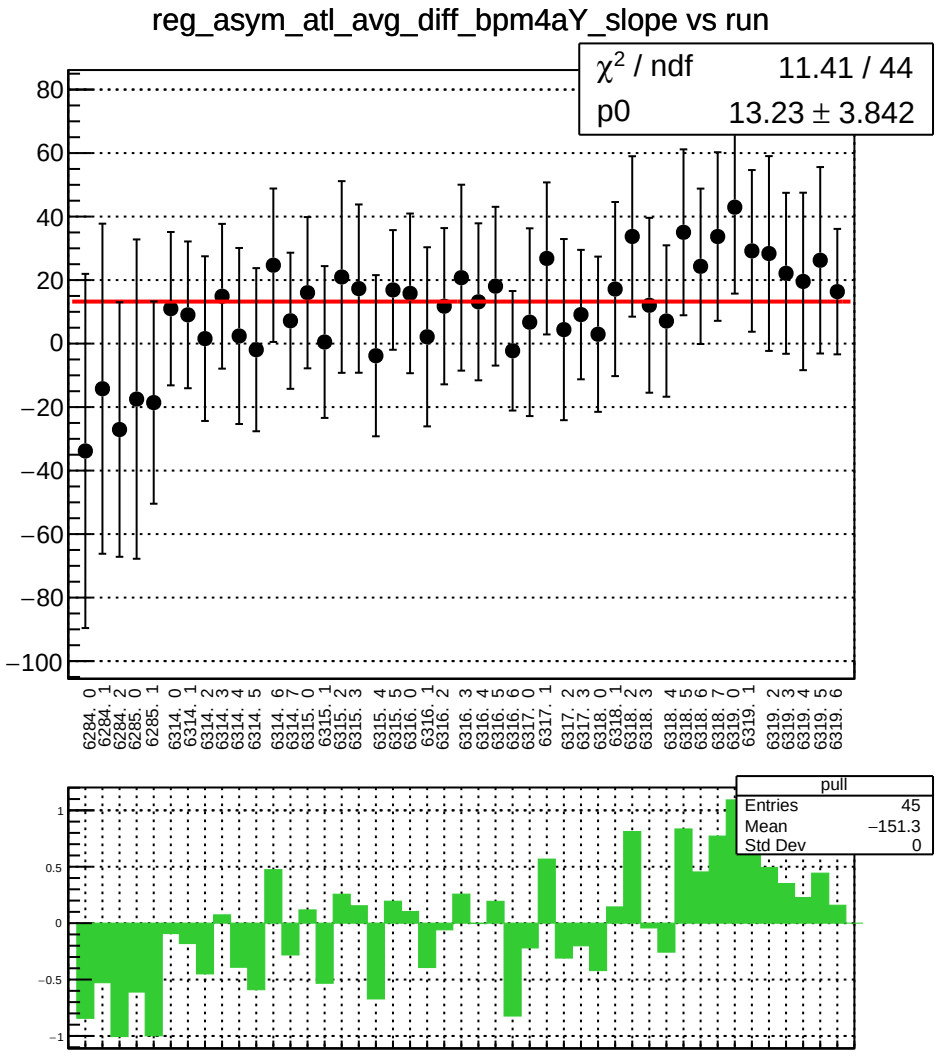

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 10.53 / 44
p0 303.5 ± 14.67
pull
Entries 45
Mean −32.79
Std Dev 0

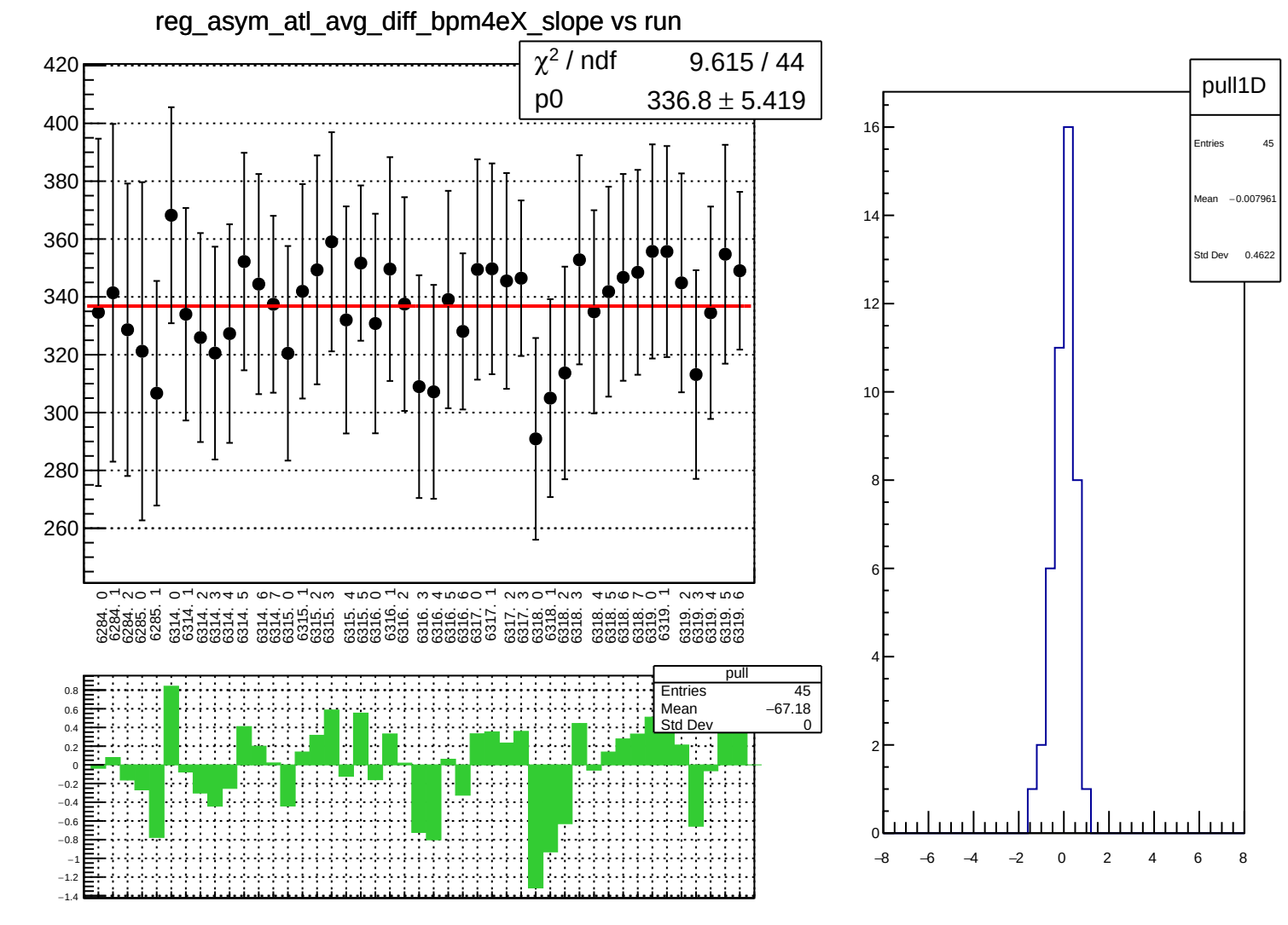

pull1D
Entries 45
Mean −0.04326
Std Dev 0.4818

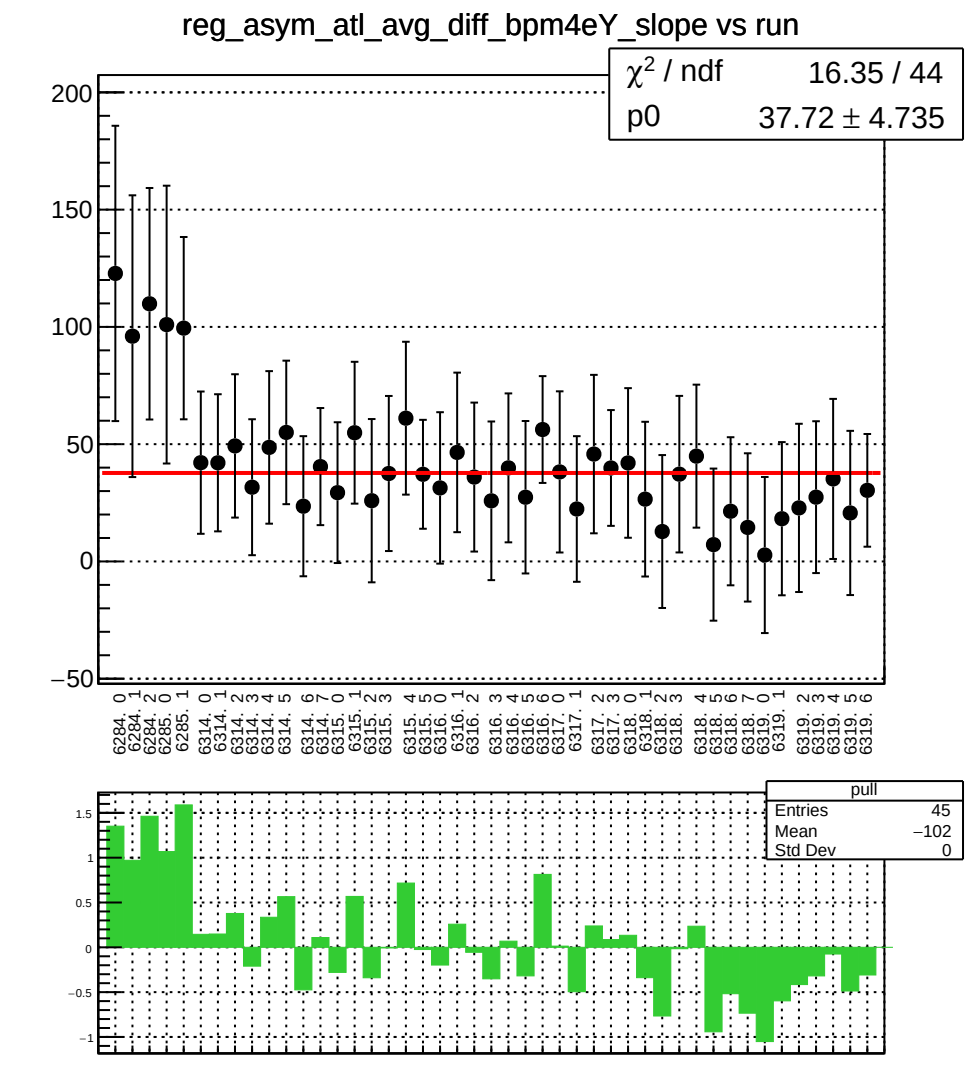

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 35.2 / 44
p0 −371.7 ± 1.214
pull
Entries 45
Mean −55.64
Std Dev 0

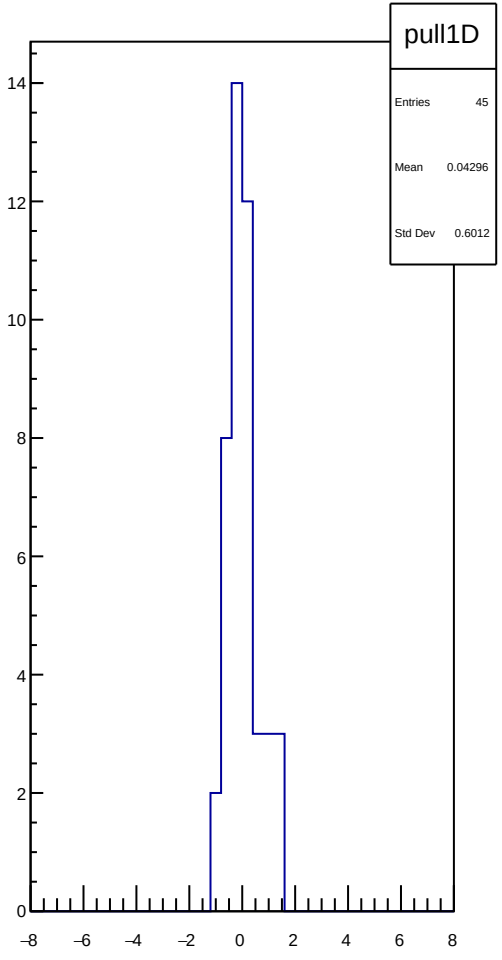

pull1D
Entries 45
Mean −0.08301
Std Dev 0.8805

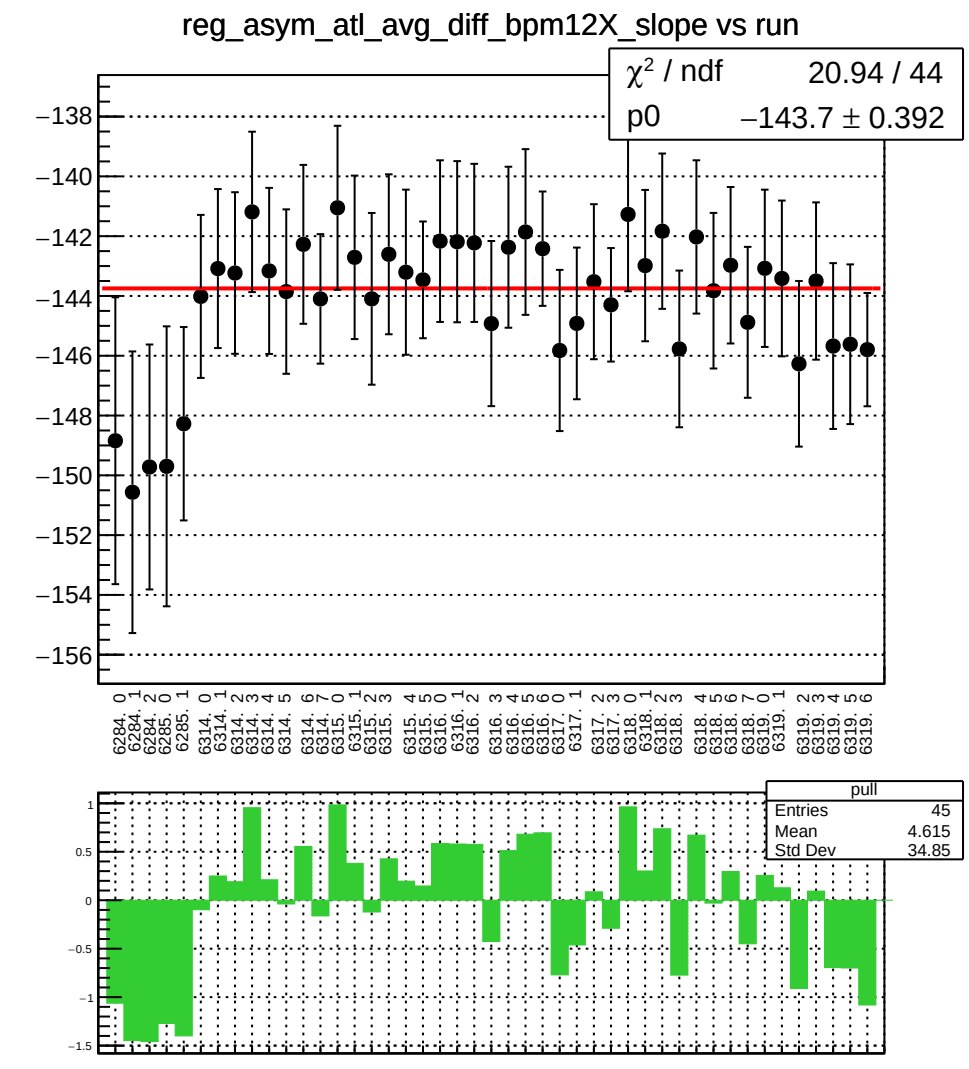

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 10.92 / 44
p0 −330.1 ± 5.287
pull
Entries 45
Mean −70.7
Std Dev 0
pull1D
Entries 45
Mean 0.01898
Std Dev 0.4923

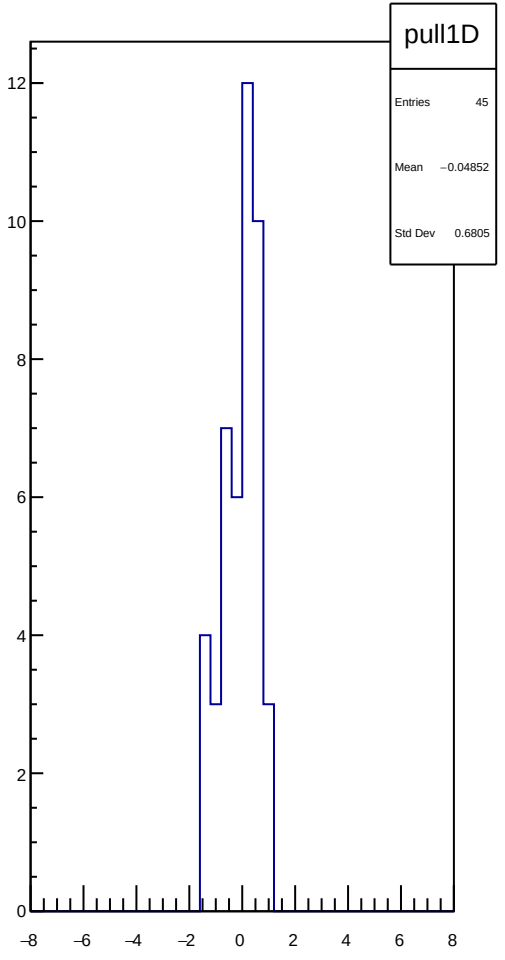

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.41 / 44
p0 13.23 ± 3.842
pull
Entries 45
Mean −151.3
Std Dev 0
pull1D
Entries 45
Mean −0.02453
Std Dev 0.5029

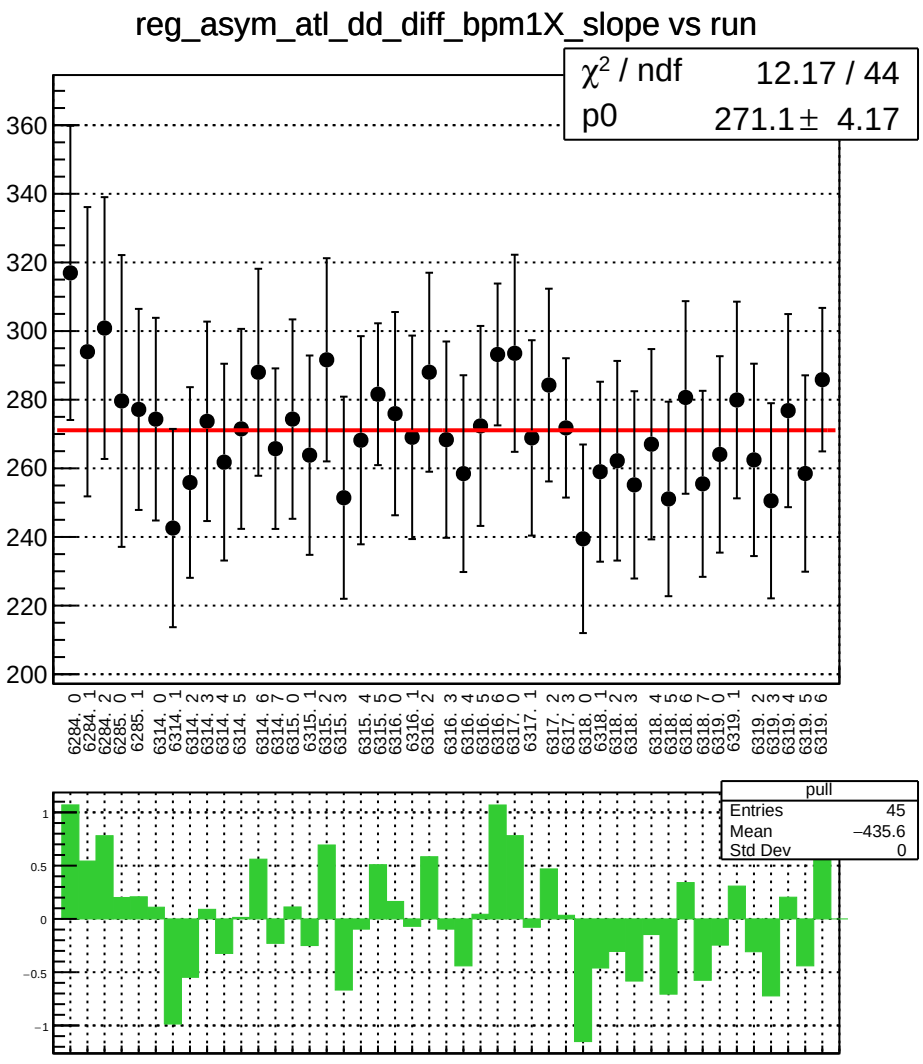

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.615 / 44
p0 336.8 ± 5.419
pull
Entries 45
Mean −67.18
Std Dev 0
pull1D
Entries 45
Mean −0.007961
Std Dev 0.4622

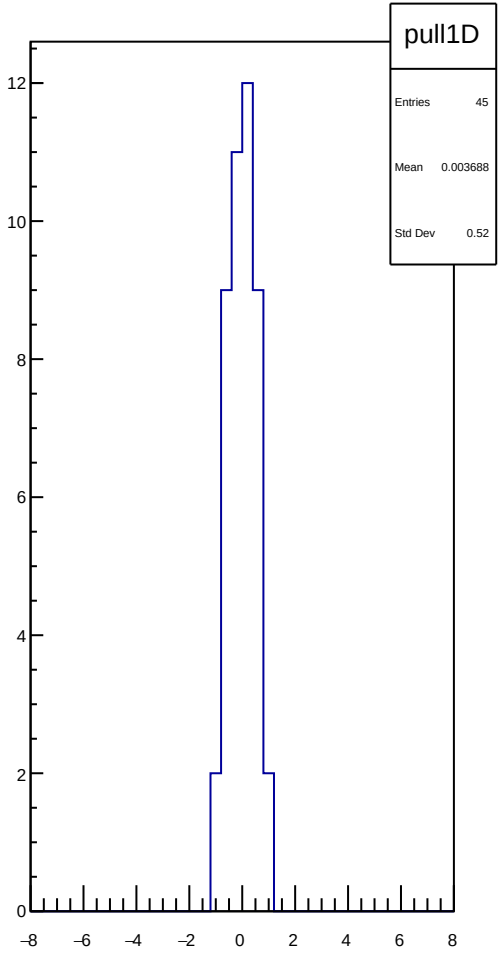

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.35 / 44
p0 37.72 ± 4.735
200
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −102
Std Dev 0
1.5
1
0.5
0
−0.5
−1

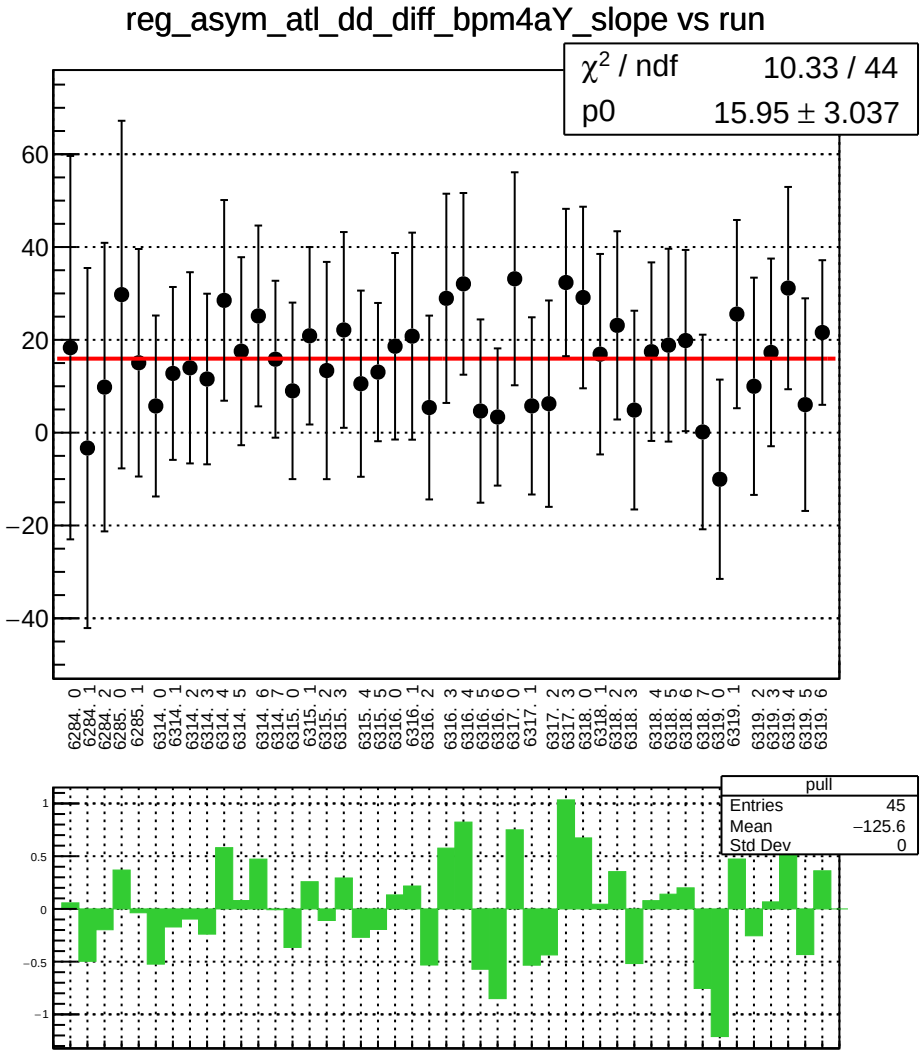

pull1D
Entries 45
Mean 0.04296
Std Dev 0.6012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

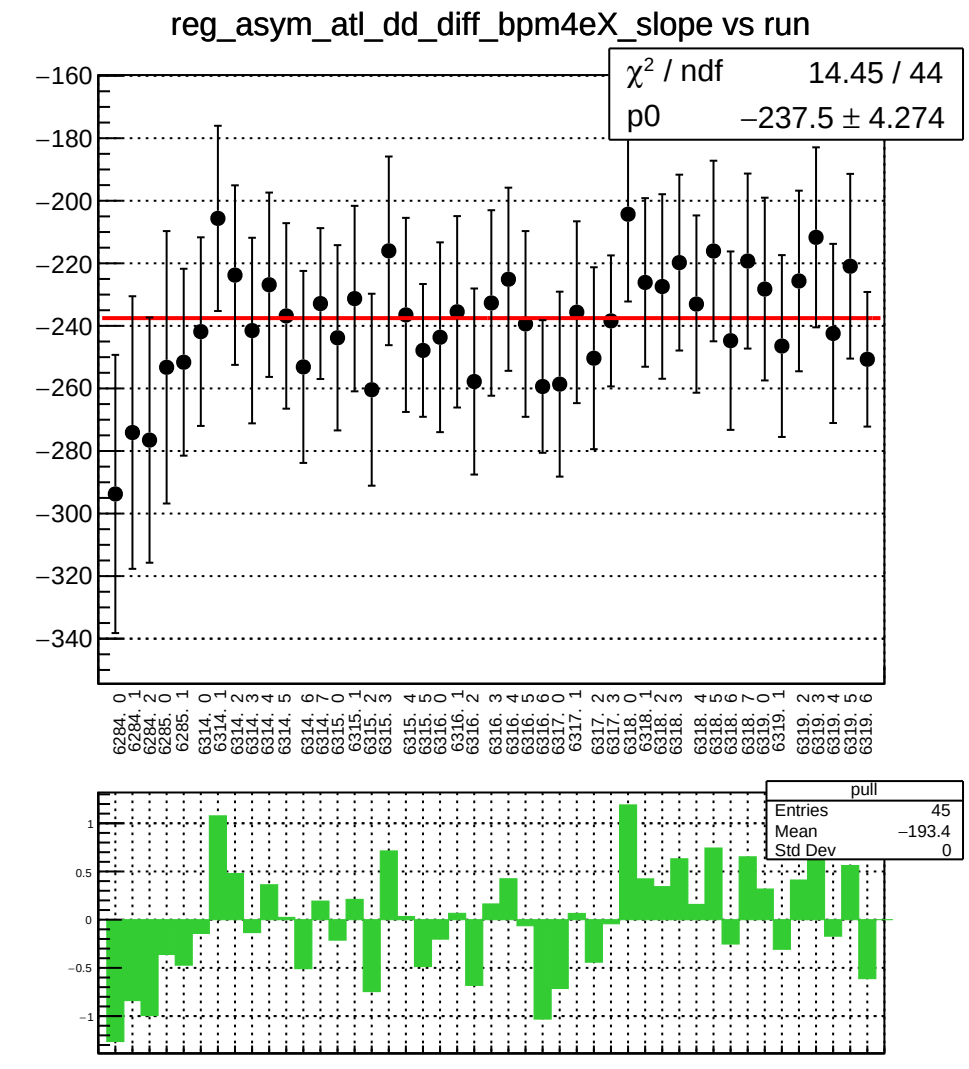

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 20.94 / 44
p0 −143.7 ± 0.392
pull
Entries 45
Mean 4.615
Std Dev 34.85

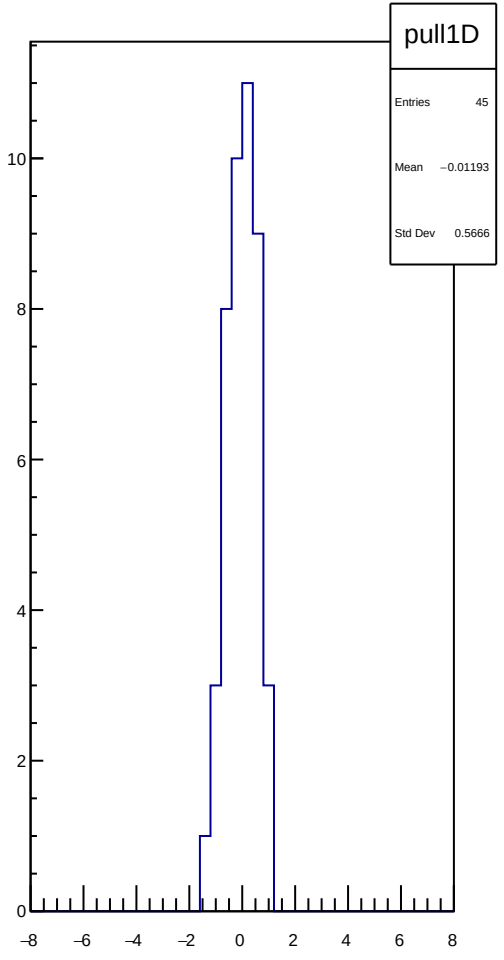

pull1D
Entries 45
Mean −0.04852
Std Dev 0.6805

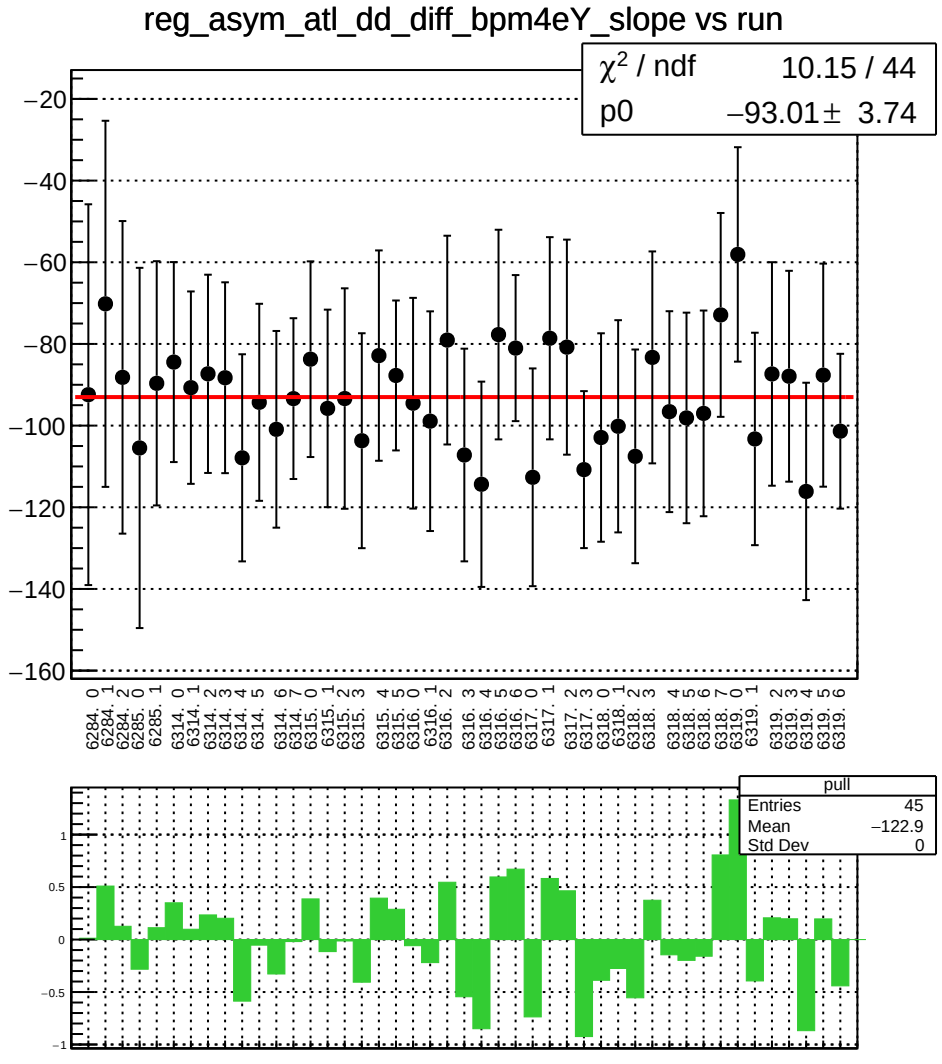

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 12.17 / 44
p0 271.1 ± 4.17
pull
Entries 45
Mean −435.6
Std Dev 0

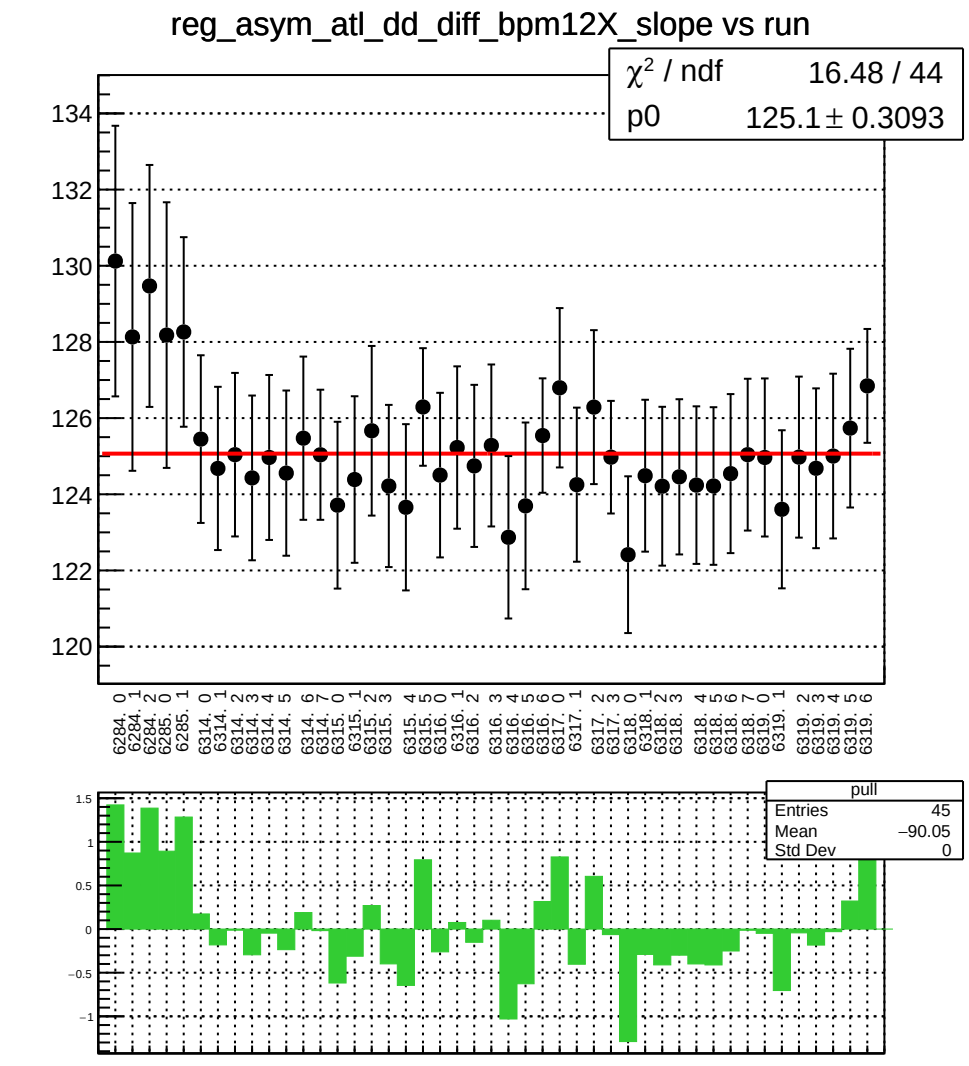

pull1D
Entries 45
Mean 0.003688
Std Dev 0.52

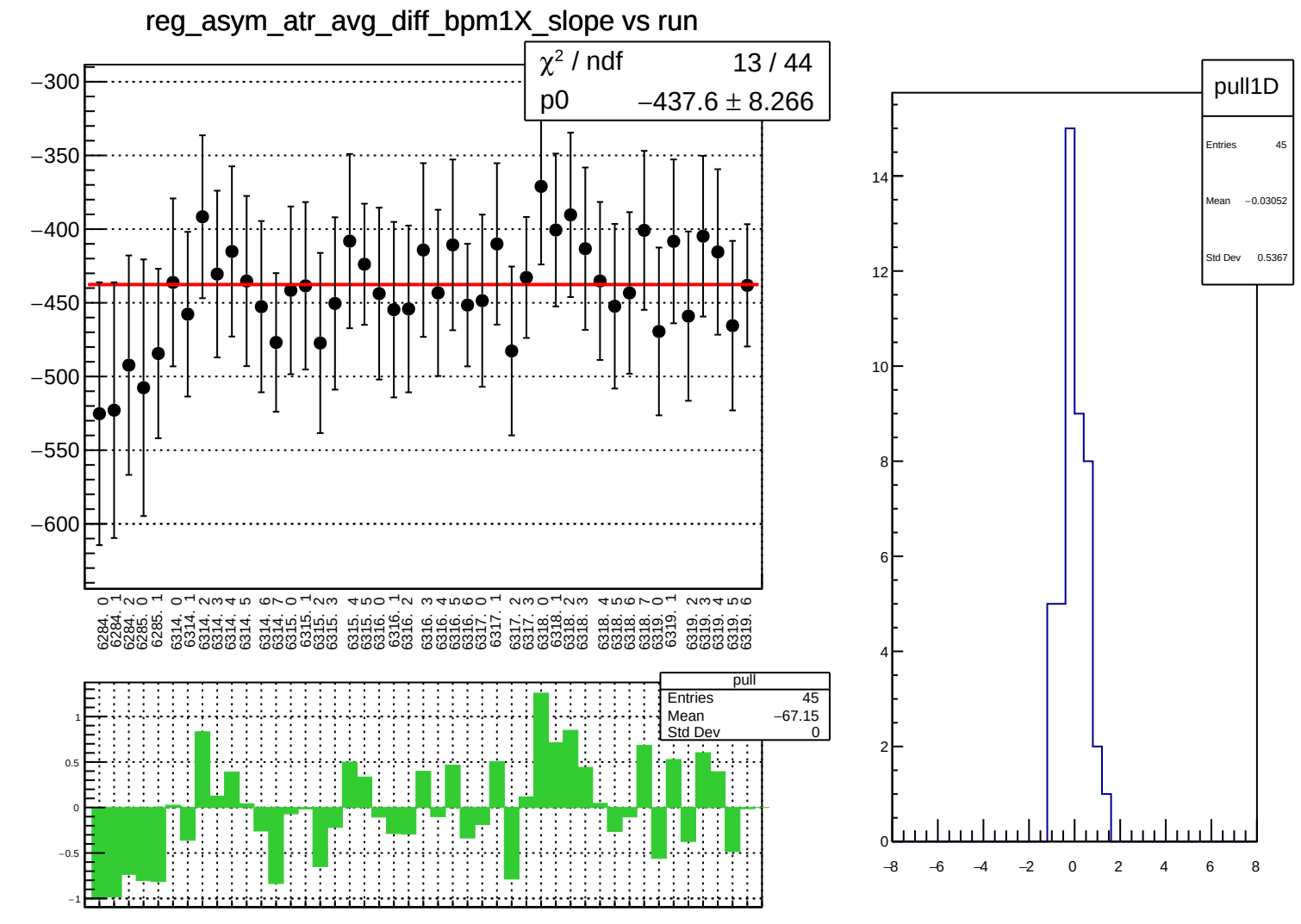

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.33 / 44
p0 15.95 ± 3.037
60
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −125.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.00146
Std Dev 0.4791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

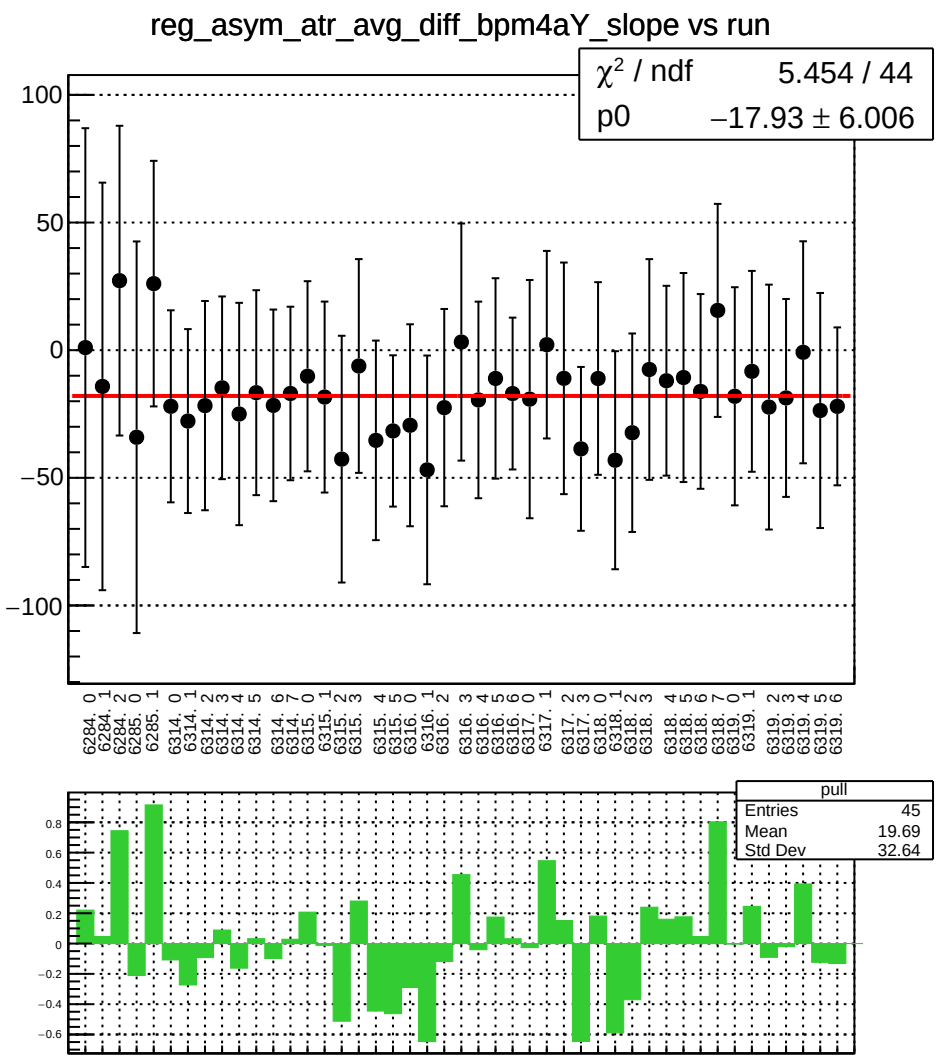

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.45 / 44
p0 −237.5 ± 4.274
pull
Entries 45
Mean −193.4
Std Dev 0

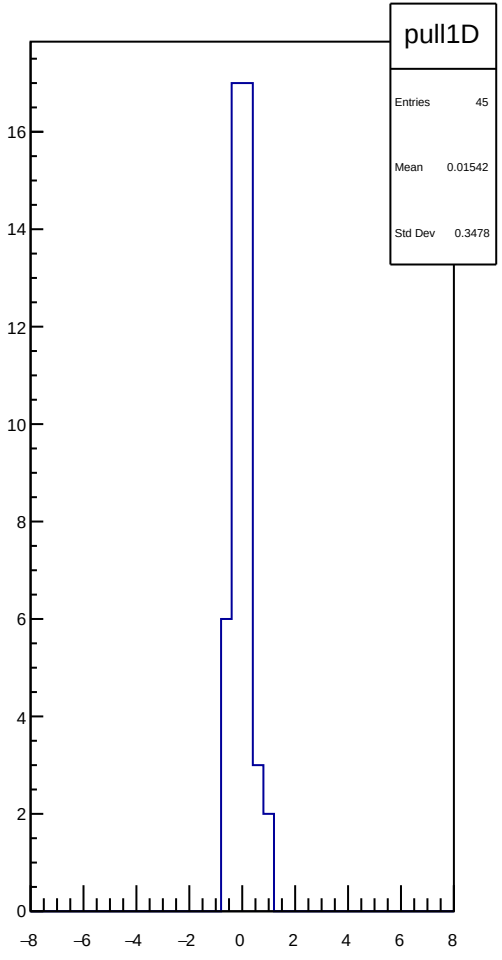

pull1D
Entries 45
Mean −0.01193
Std Dev 0.5666

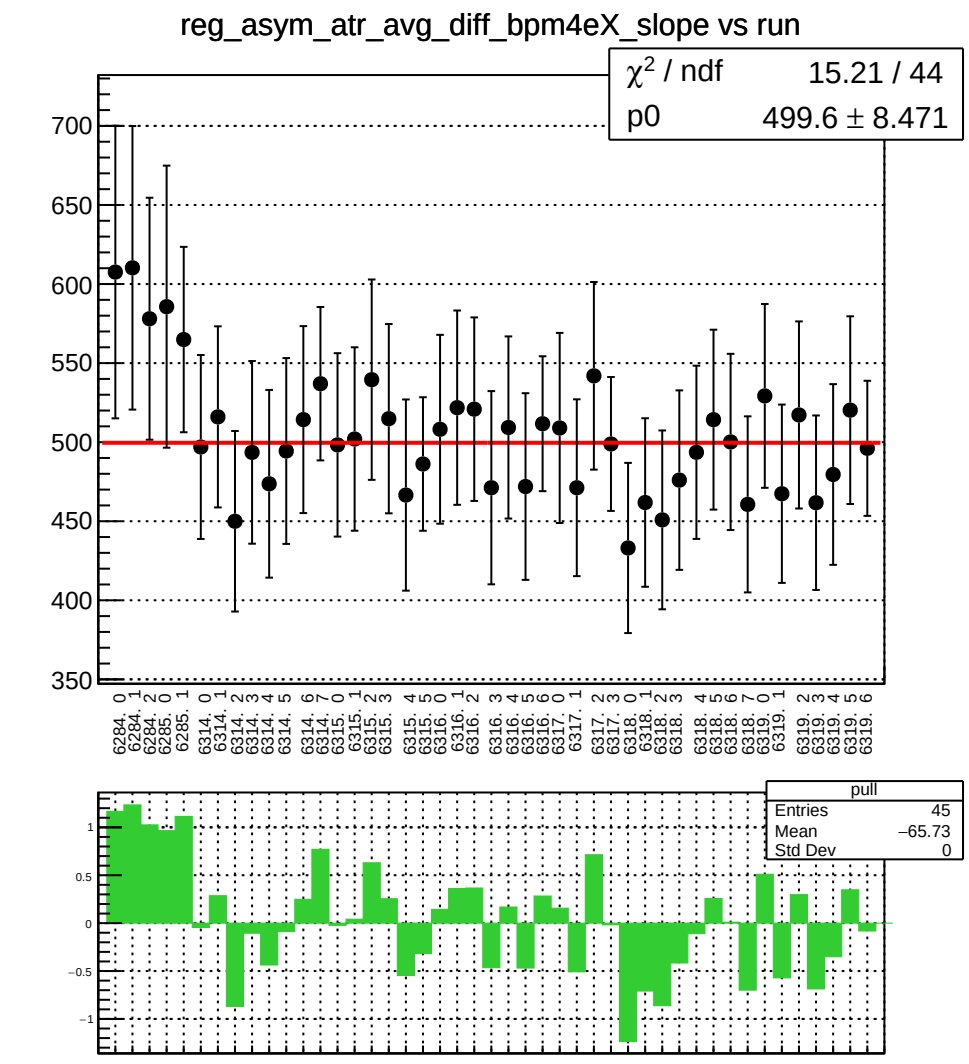

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.15 / 44
p0 −93.01± 3.74
pull
Entries 45
Mean −122.9
Std Dev 0
pull1D
Entries 45
Mean 0.002868
Std Dev 0.4748

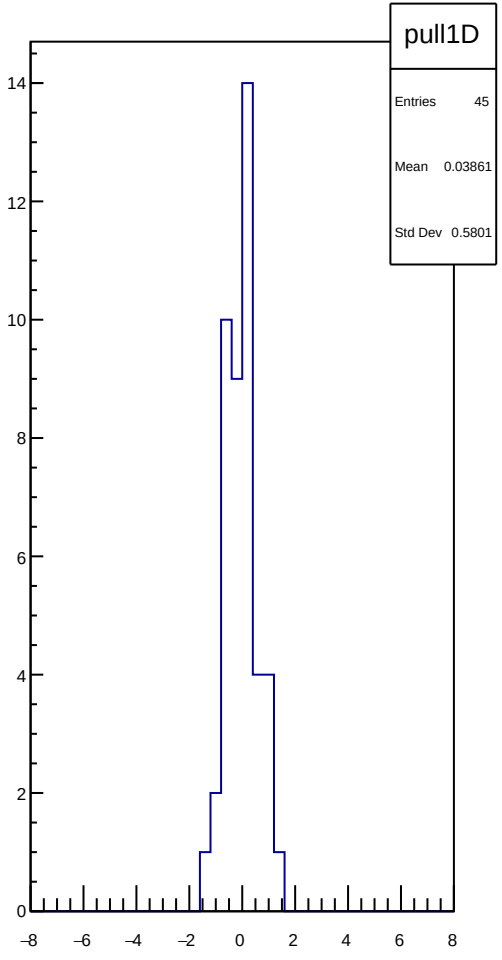

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 16.48 / 44
p0 125.1 ± 0.3093
134
132
130
128
126
124
122
120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −90.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.02328
Std Dev 0.6047
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

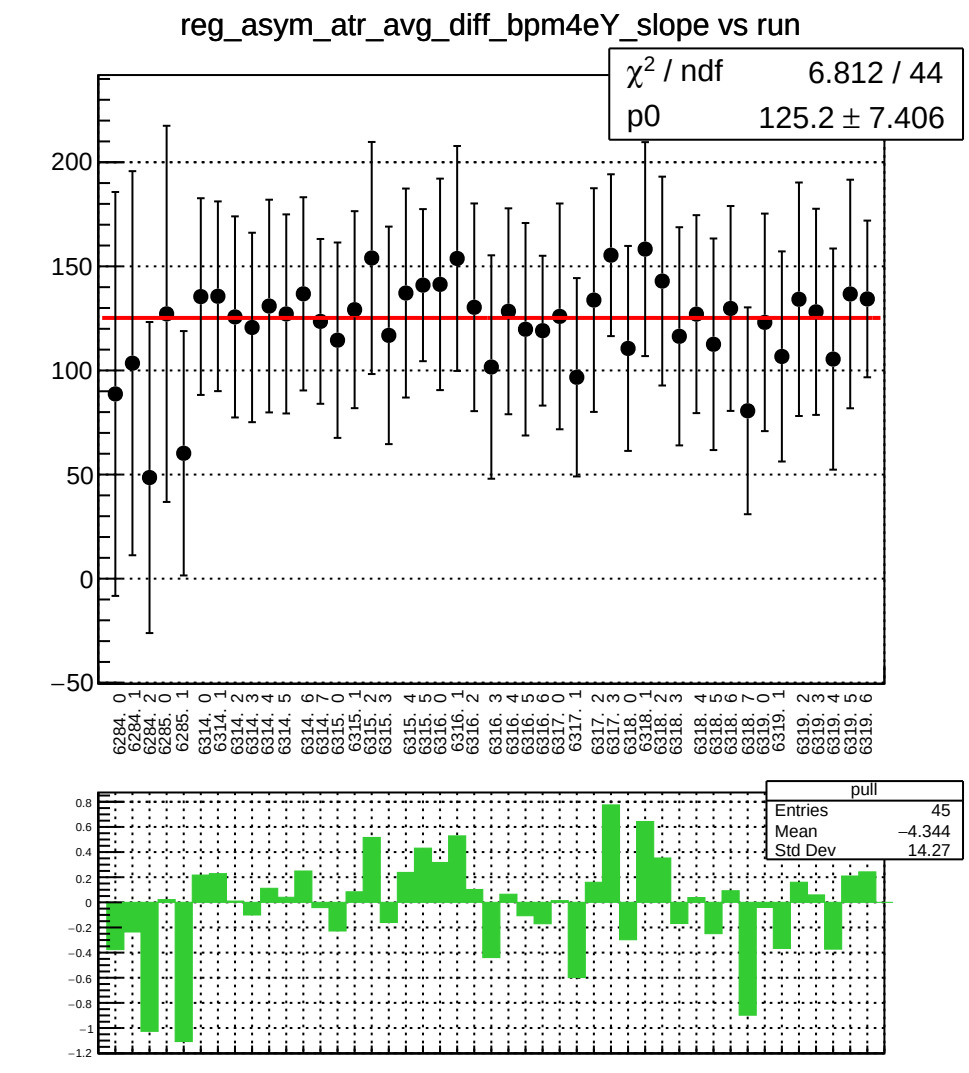

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 13 / 44
p0 −437.6 ± 8.266
−300
−350
−400
−450
−500
−550
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −67.15
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.03052
Std Dev 0.5367
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

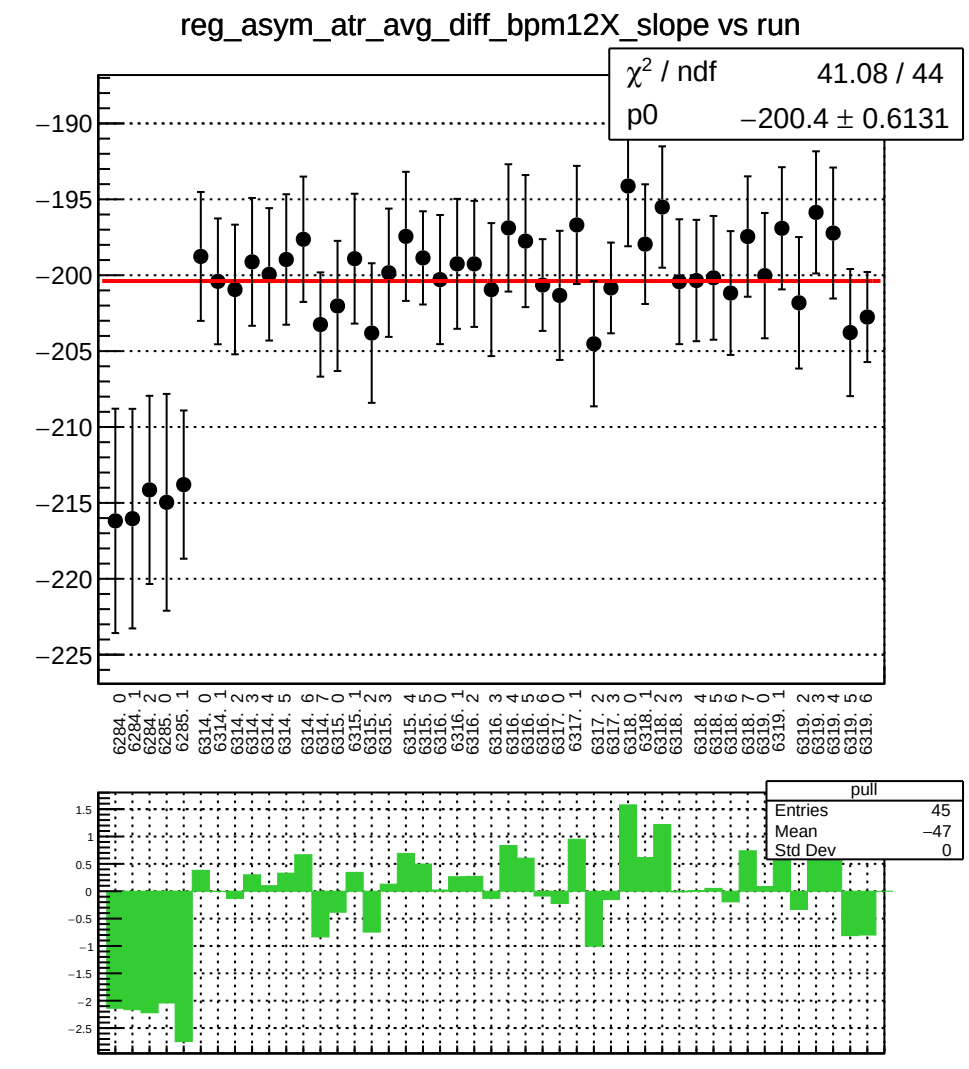

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.454 / 44
p0 −17.93 ± 6.006
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 19.69
Std Dev 32.64
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

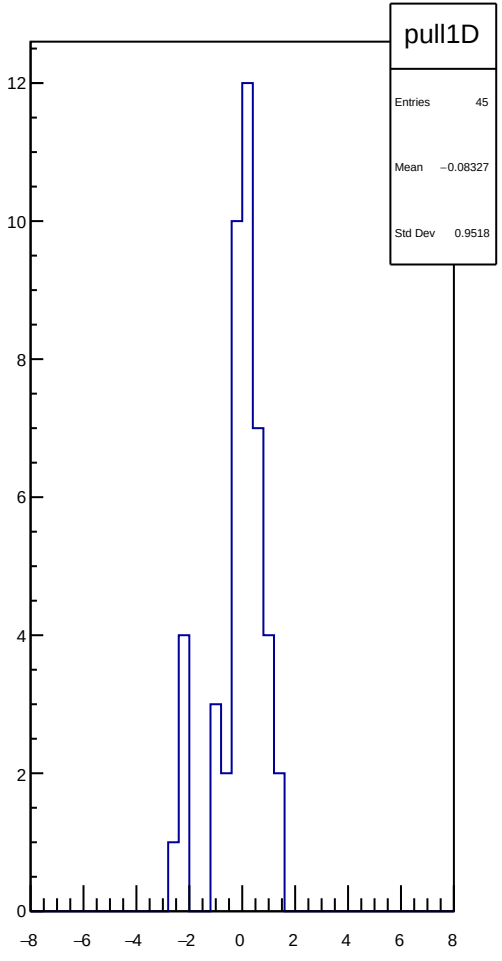

pull1D
Entries 45
Mean 0.01542
Std Dev 0.3478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

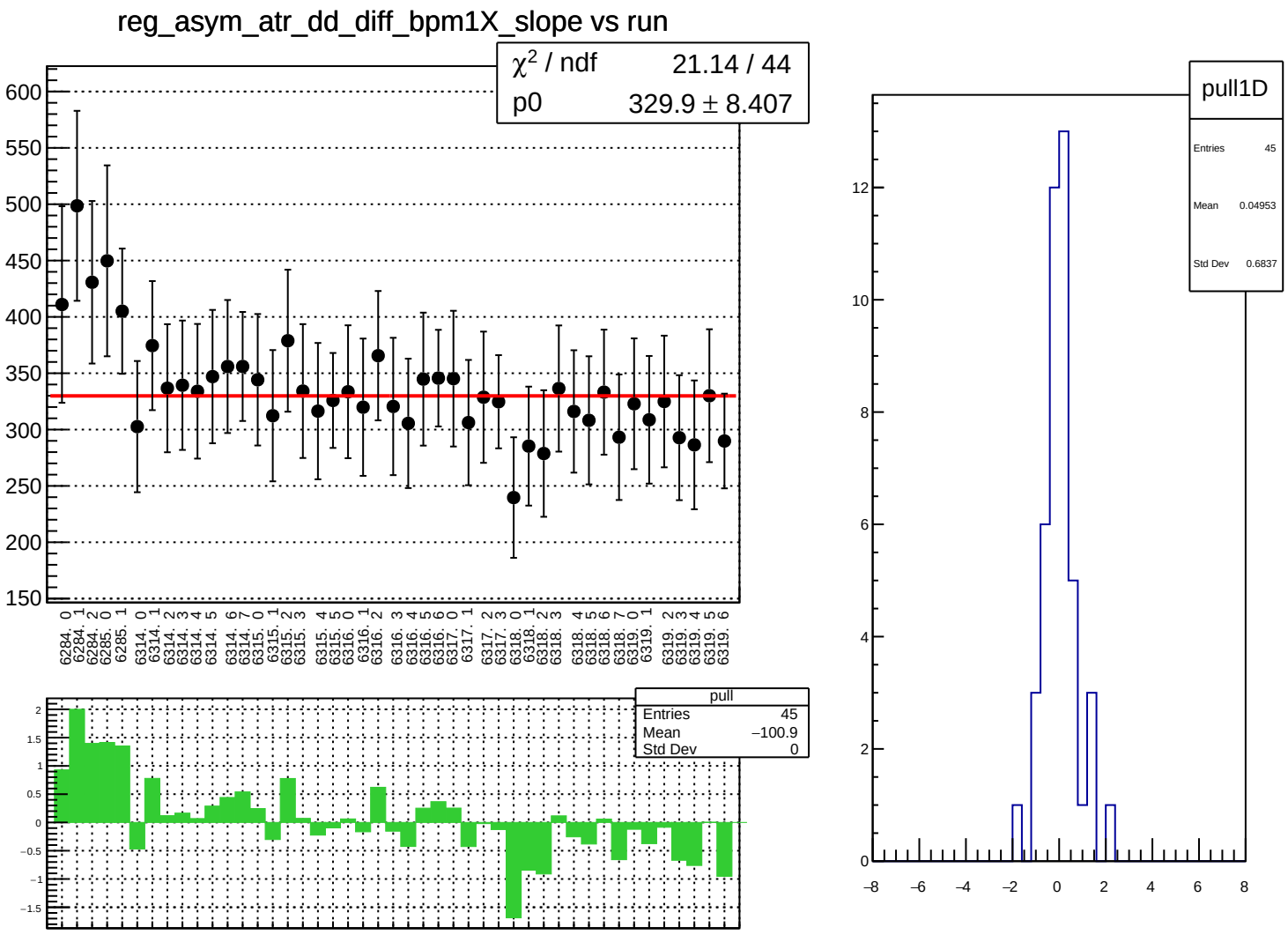

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.21 / 44
p0 499.6 ± 8.471
700
650
600
550
500
450
400
350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −65.73
Std Dev 0
1
0.5
0
−0.5
−1

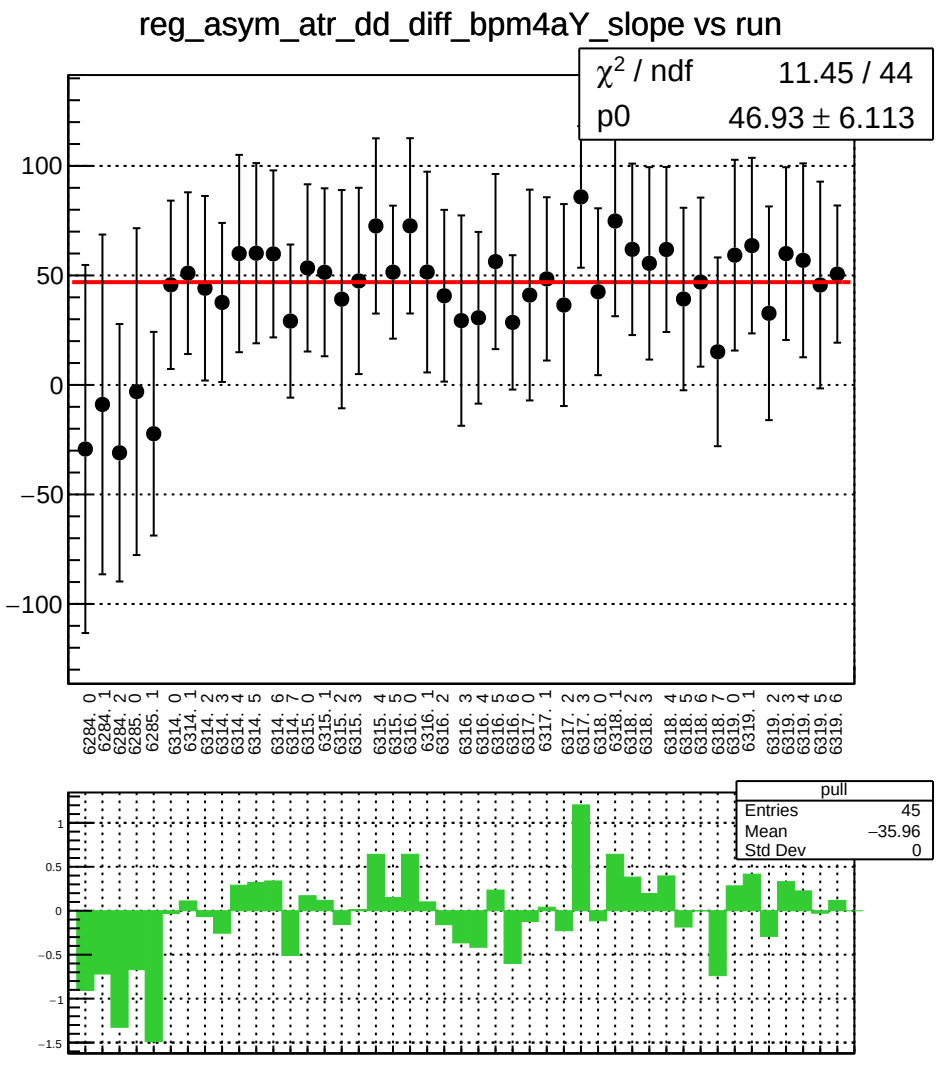

pull1D
Entries 45
Mean 0.03861
Std Dev 0.5801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

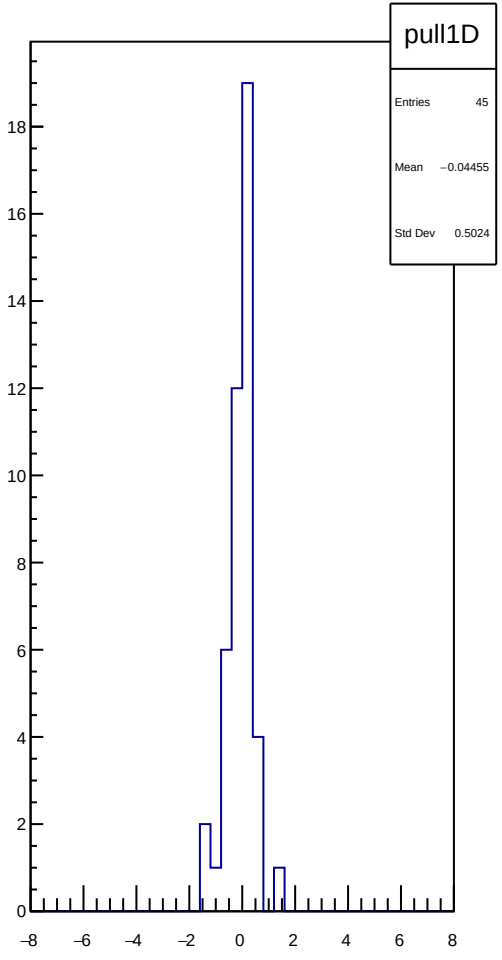

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.812 / 44
p0 125.2 ± 7.406
200
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −4.344
Std Dev 14.27
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean −0.02397
Std Dev 0.3883
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

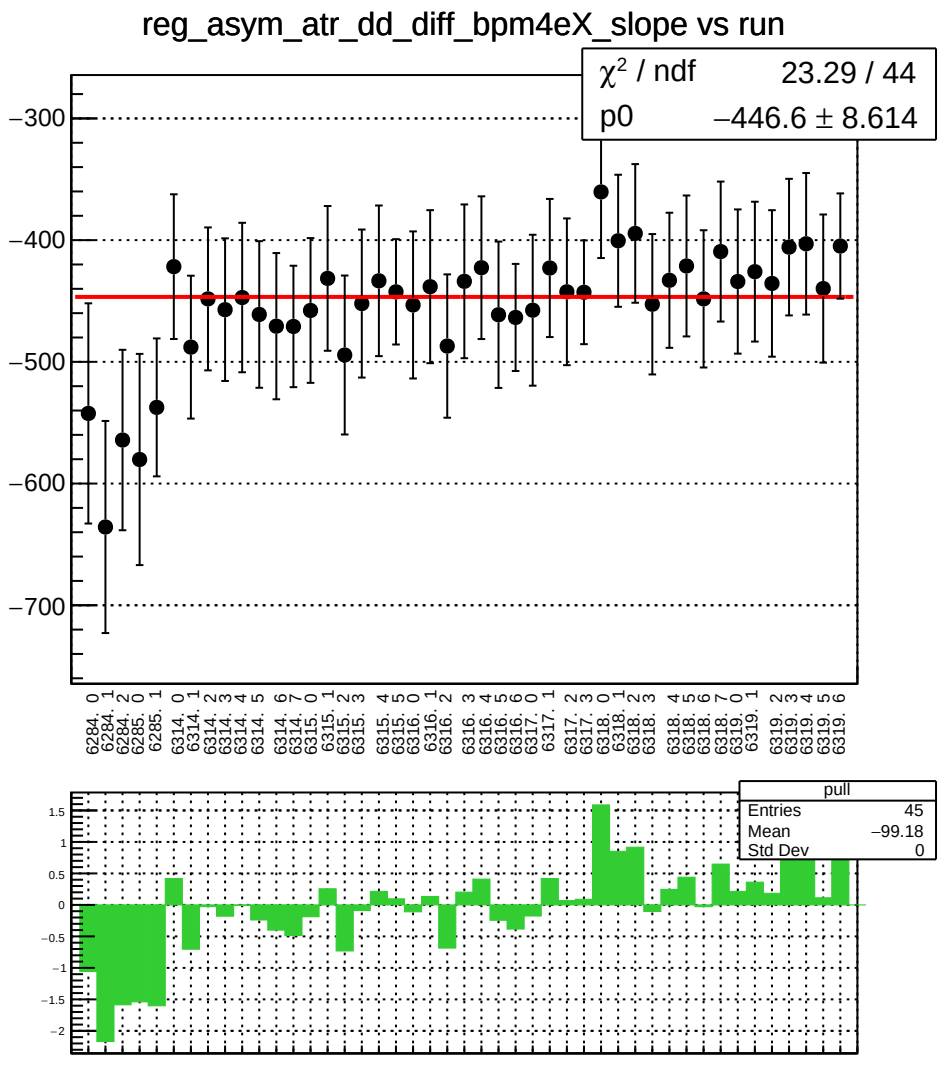

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 41.08 / 44
p0 −200.4 ± 0.6131
pull
Entries 45
Mean −47
Std Dev 0

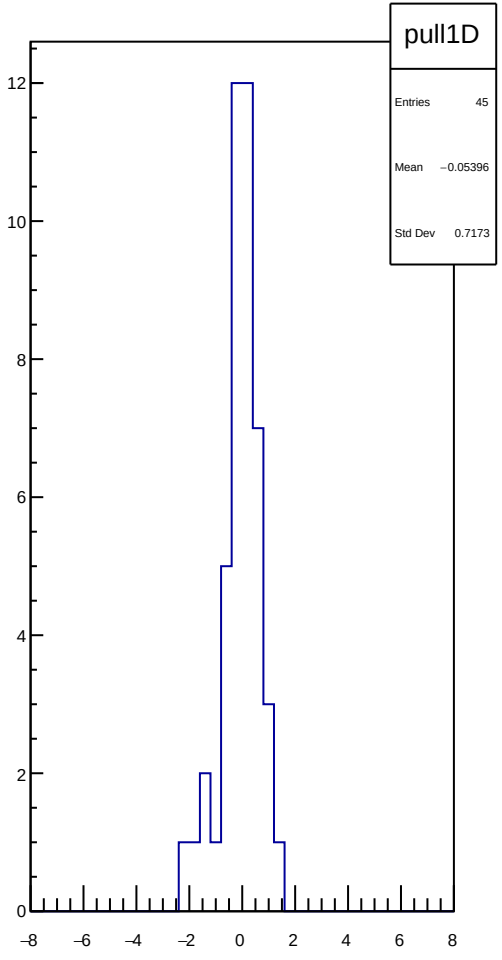

pull1D
Entries 45
Mean −0.08327
Std Dev 0.9518

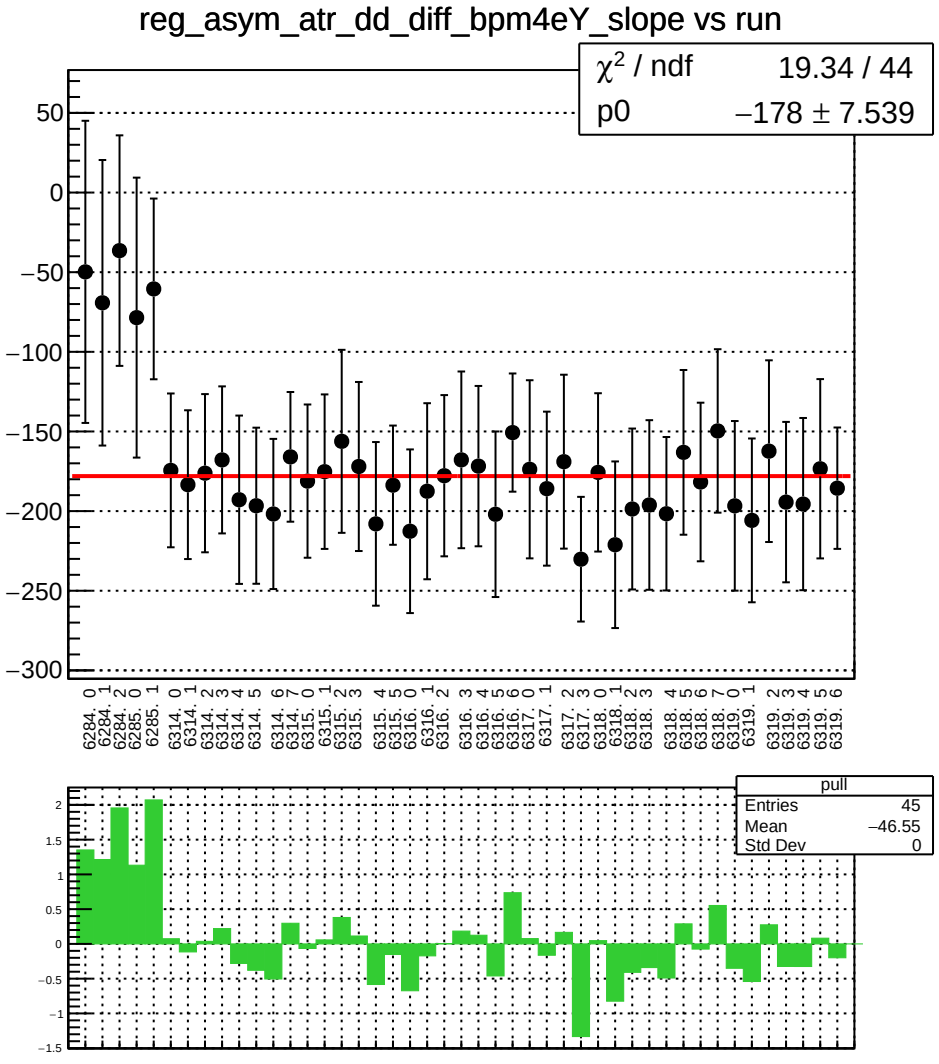

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 21.14 / 44
p0 329.9 ± 8.407
pull
Entries 45
Mean −100.9
Std Dev 0
pull1D
Entries 45
Mean 0.04953
Std Dev 0.6837

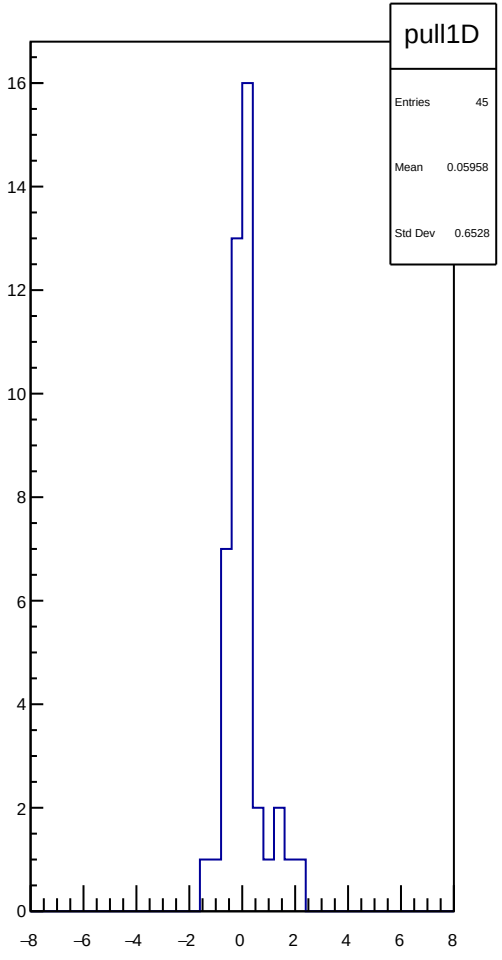

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 44
p0 46.93 ± 6.113
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −35.96
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

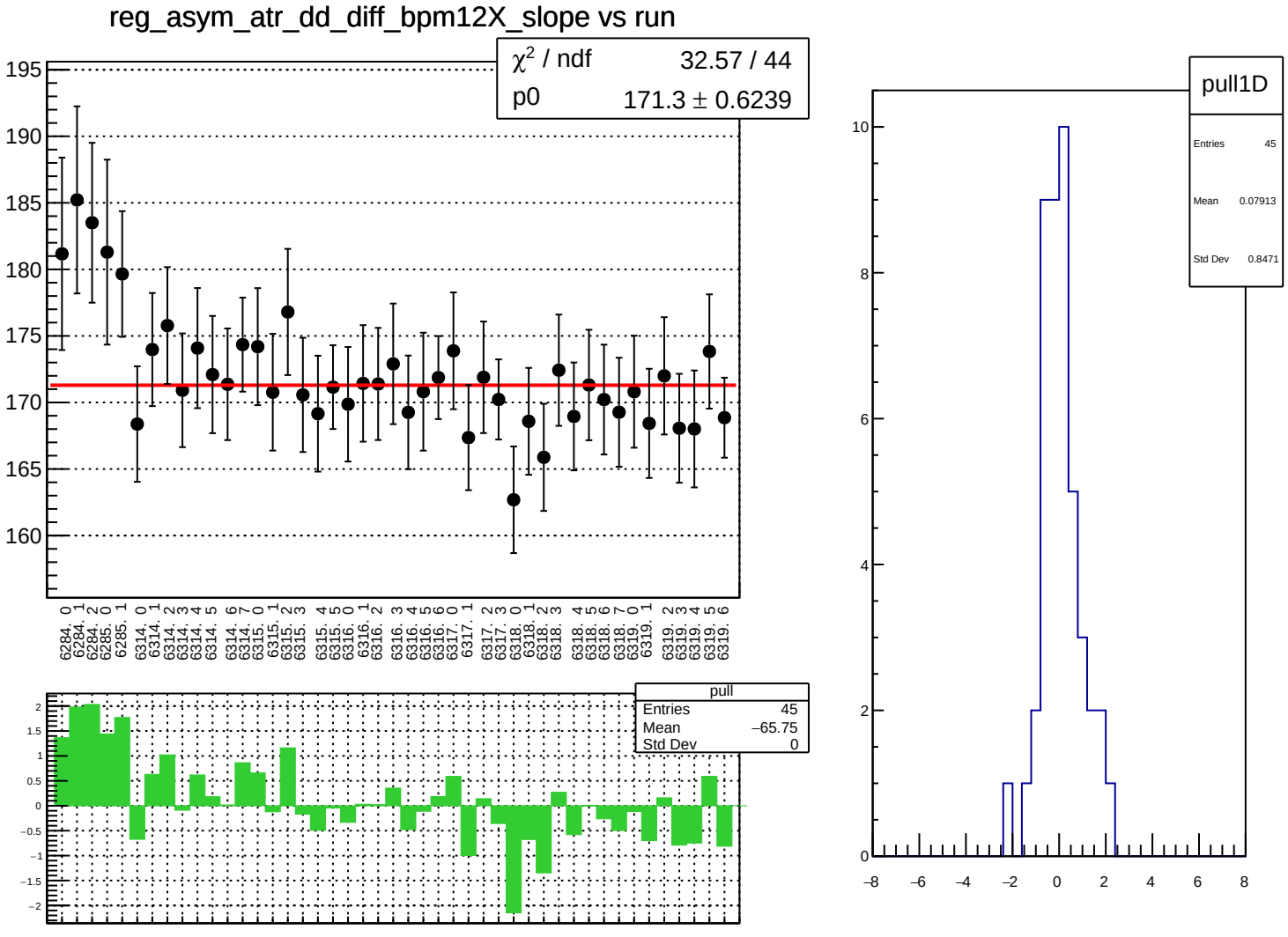

pull1D
Entries 45
Mean −0.04455
Std Dev 0.5024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

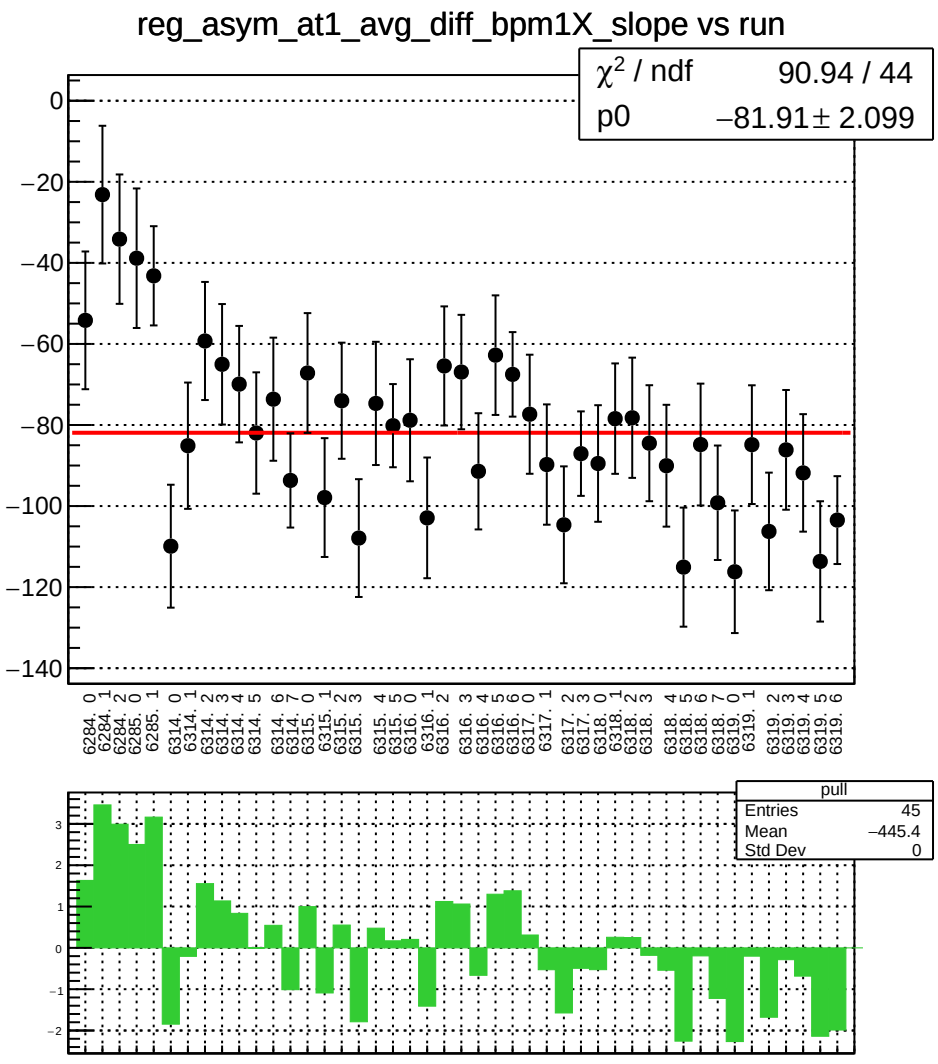

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.29 / 44
p0 −446.6 ± 8.614
−300
−400
−500
−600
−700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −99.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

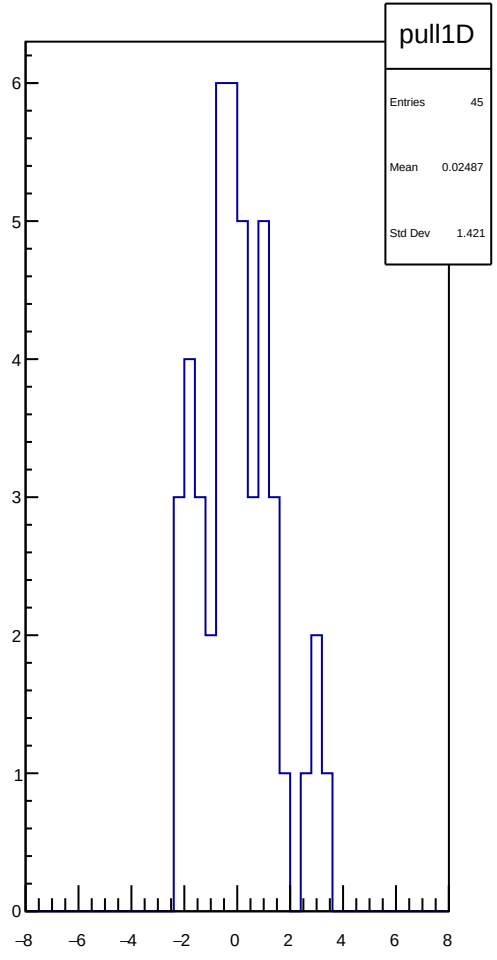

pull1D
Entries 45
Mean −0.05396
Std Dev 0.7173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

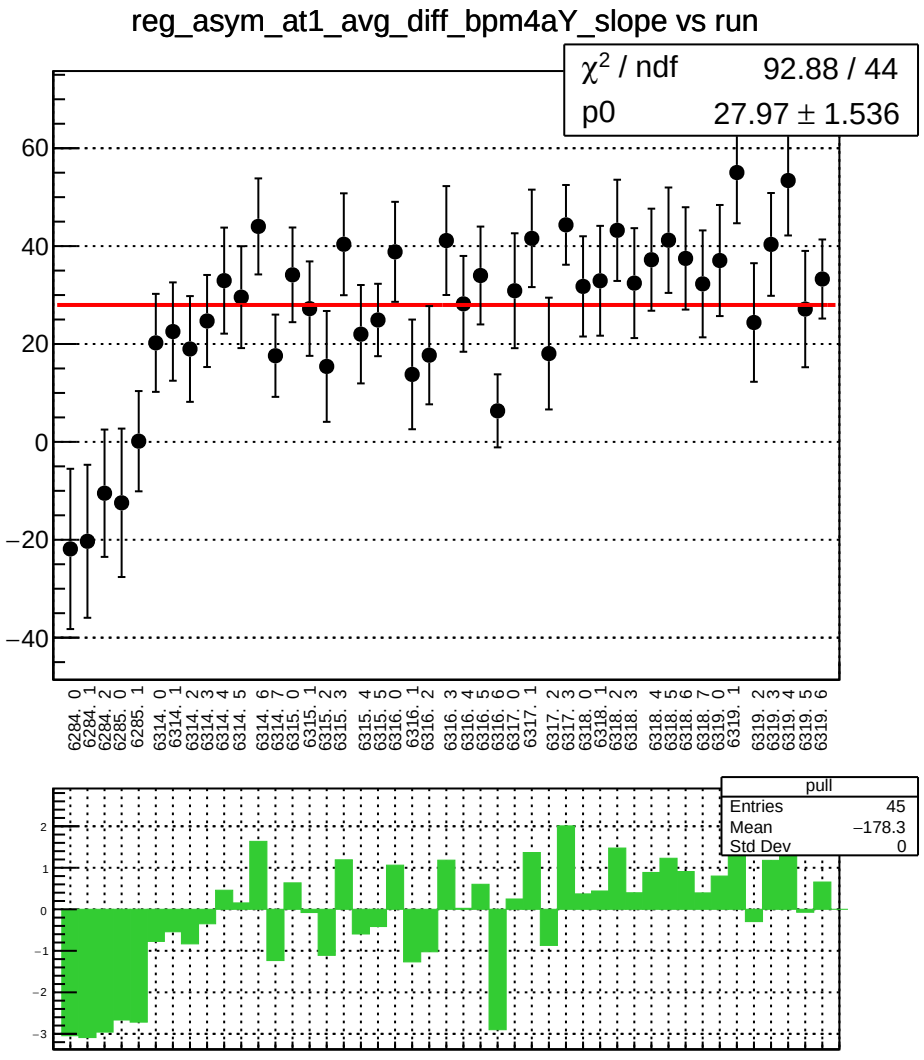

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.34 / 44
p0 −178 ± 7.539
pull
Entries 45
Mean −46.55
Std Dev 0

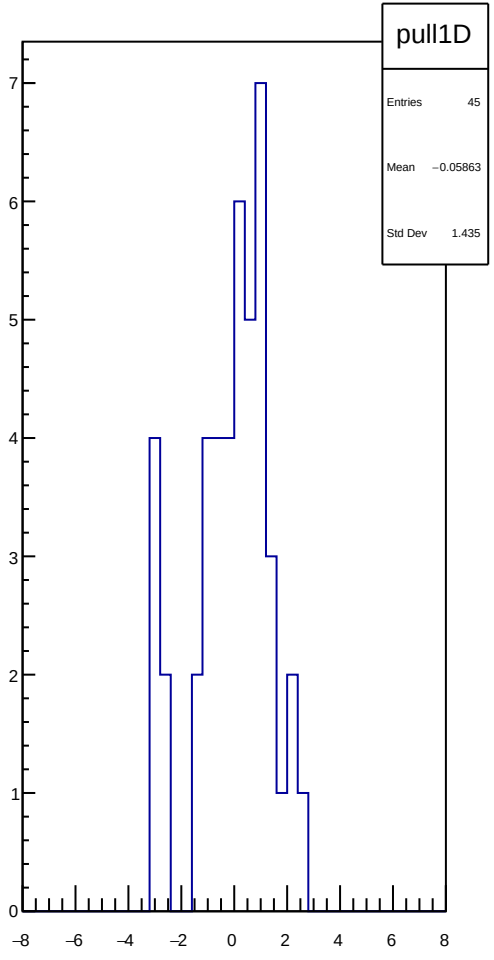

pull1D
Entries 45
Mean 0.05958
Std Dev 0.6528

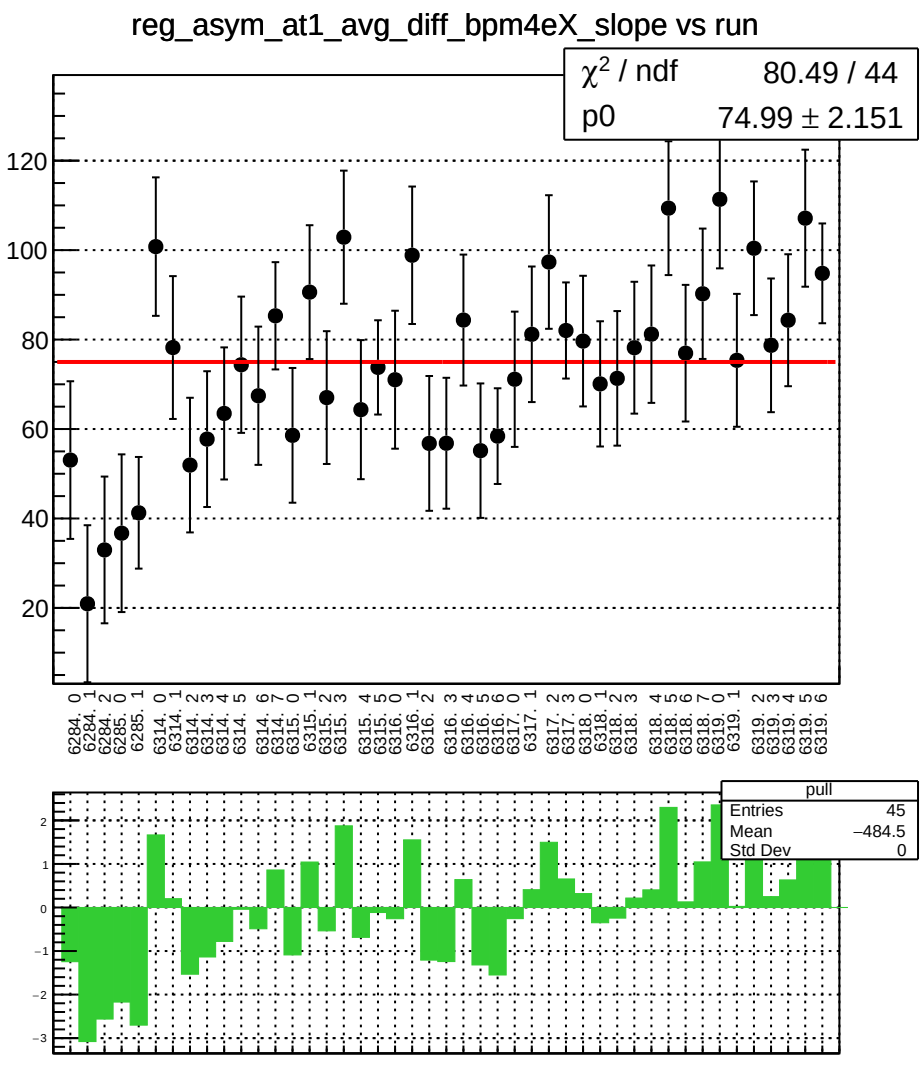

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 32.57 / 44
p0 171.3 ± 0.6239
pull
Entries 45
Mean −65.75
Std Dev 0
pull1D
Entries 45
Mean 0.07913
Std Dev 0.8471

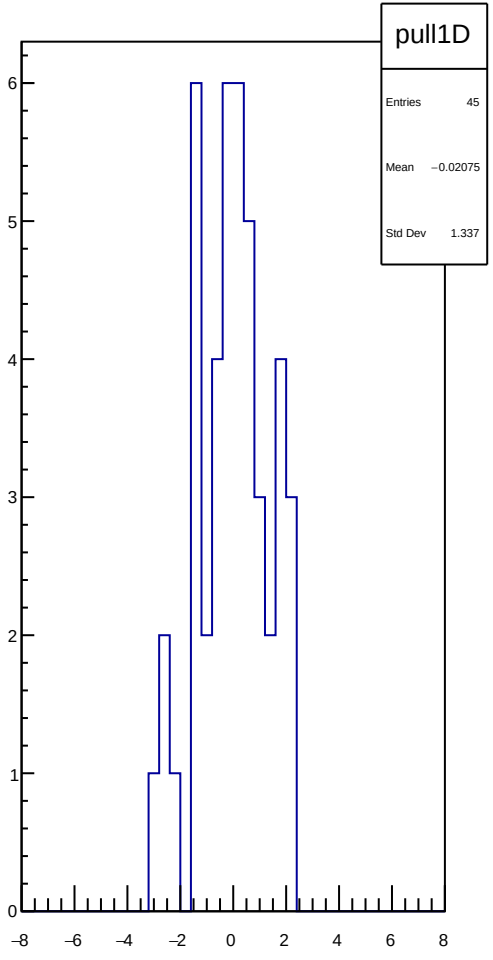

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 90.94 / 44
p0 −81.91 ± 2.099
pull
Entries 45
Mean −445.4
Std Dev 0

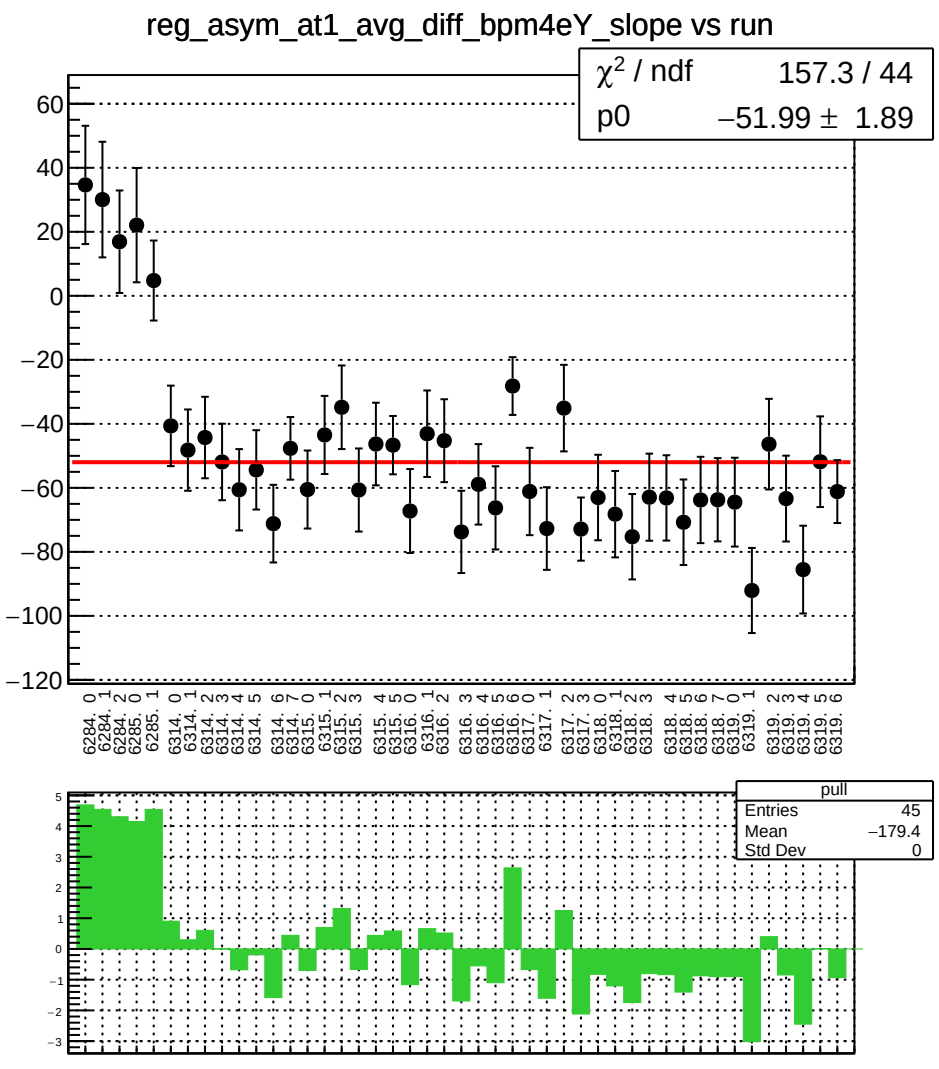

pull1D
Entries 45
Mean 0.02487
Std Dev 1.421

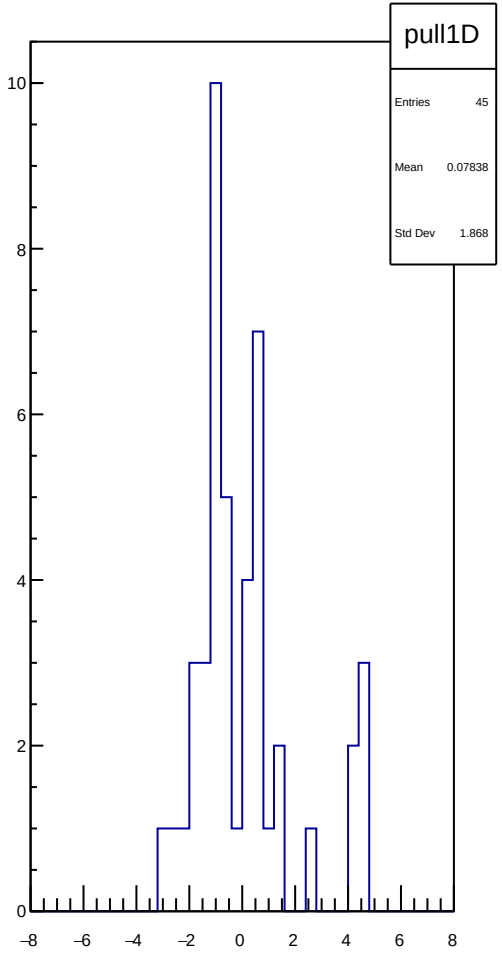

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.88 / 44
p0 27.97 ± 1.536
pull
Entries 45
Mean −178.3
Std Dev 0

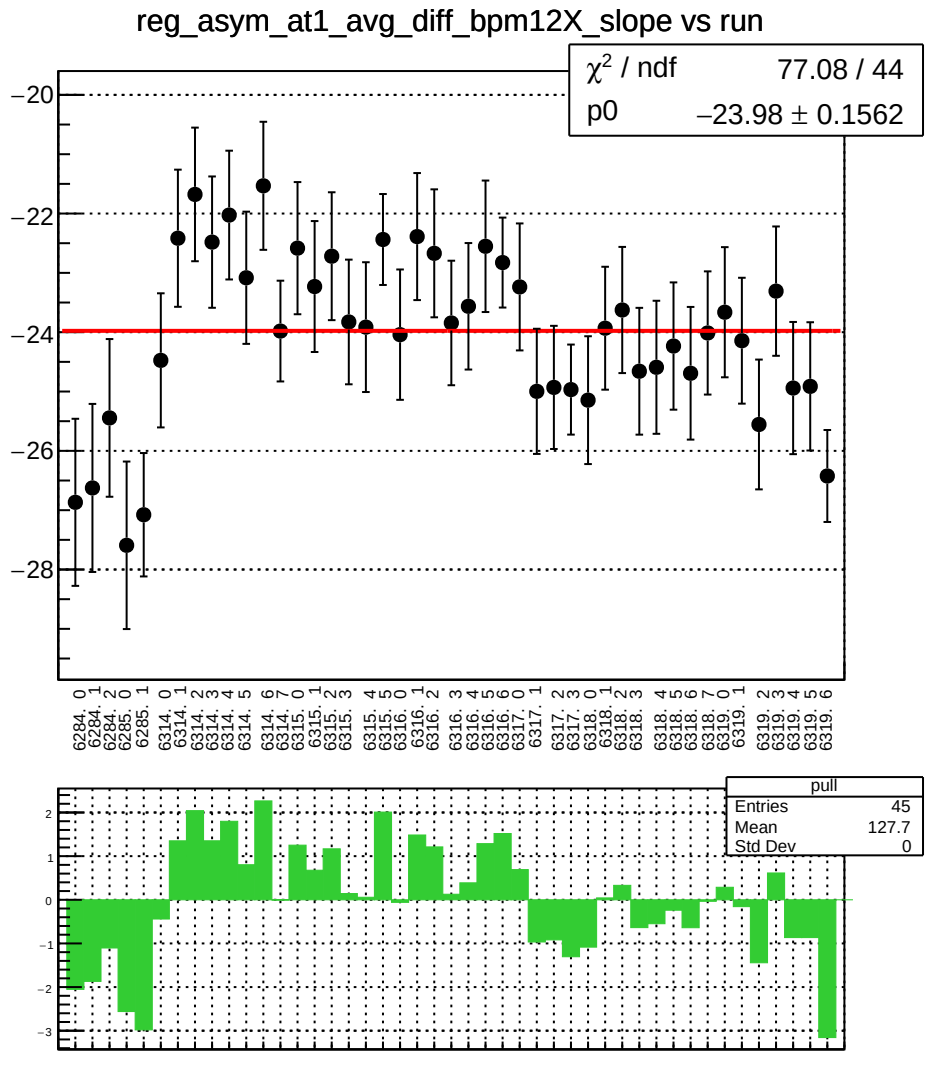

pull1D
Entries 45
Mean −0.05863
Std Dev 1.435

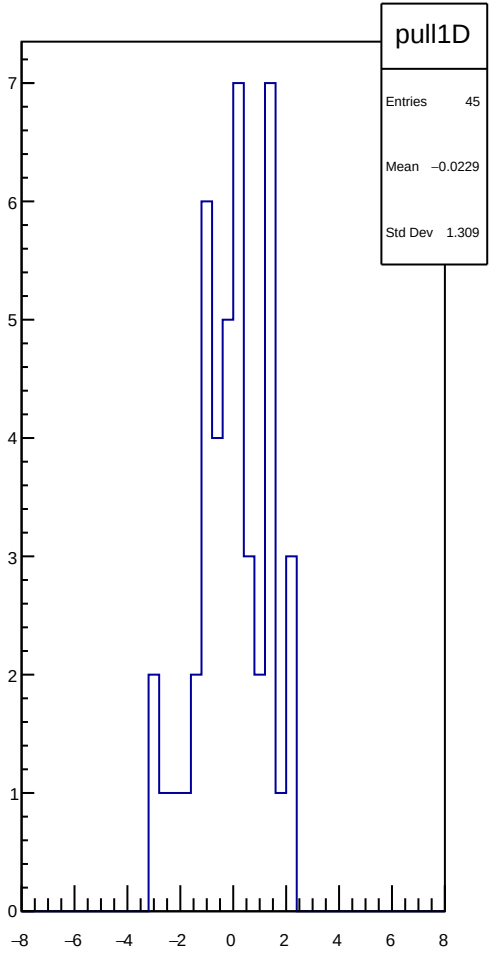

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.49 / 44
p0 74.99 ± 2.151
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −484.5
Std Dev 0
2
1
0
−1
−2
−3

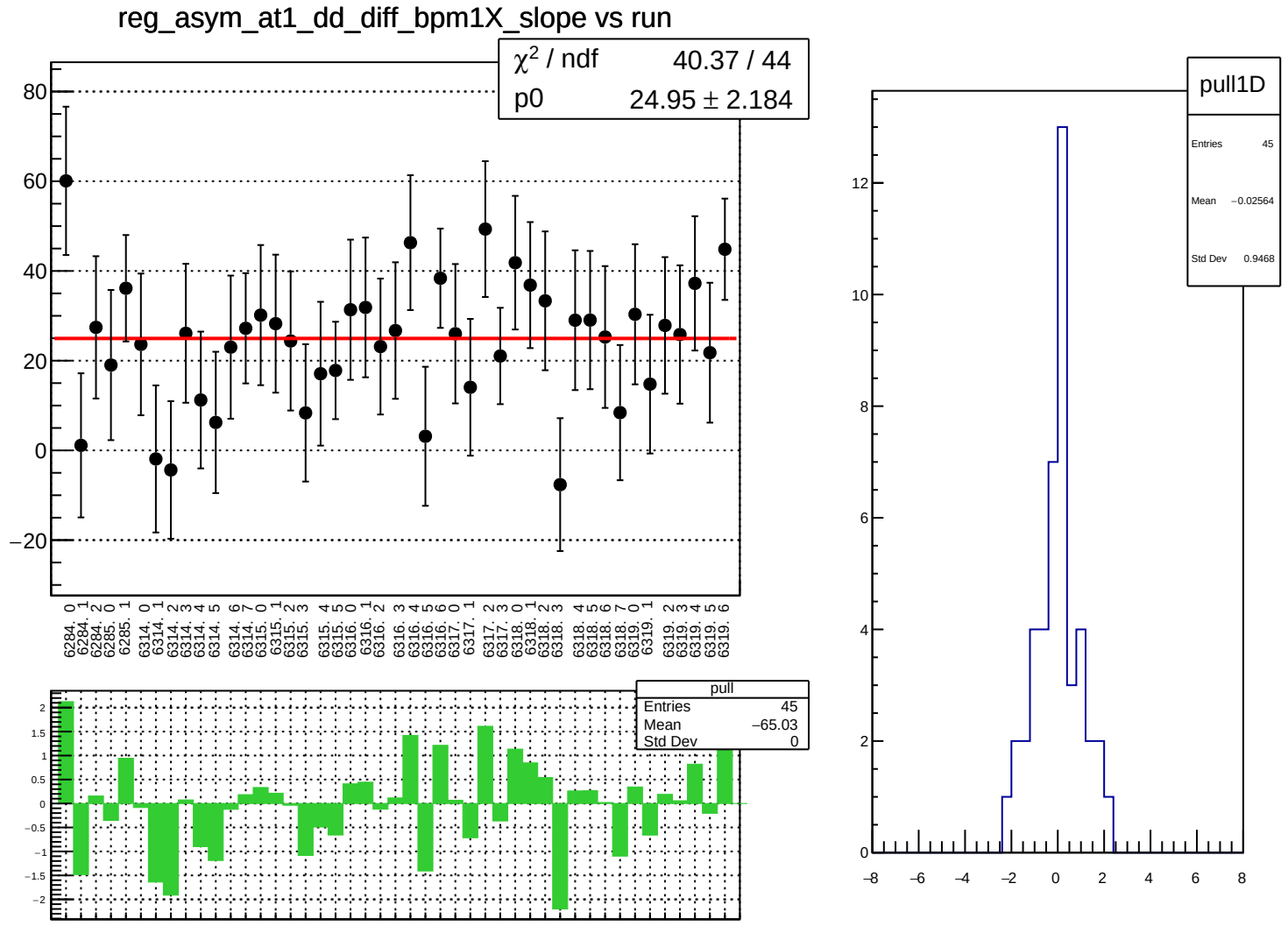

pull1D
Entries 45
Mean −0.02075
Std Dev 1.337
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

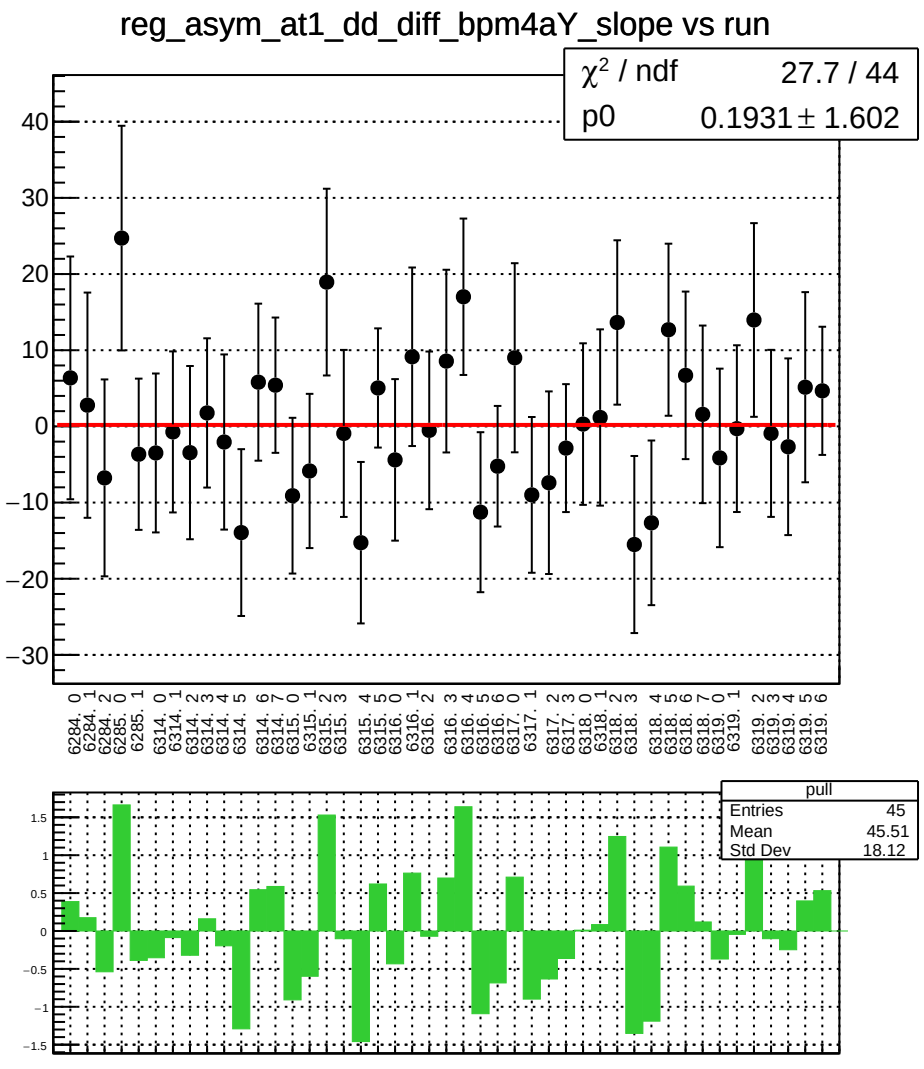

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 157.3 / 44
p0 −51.99 ± 1.89
pull
Entries 45
Mean −179.4
Std Dev 0

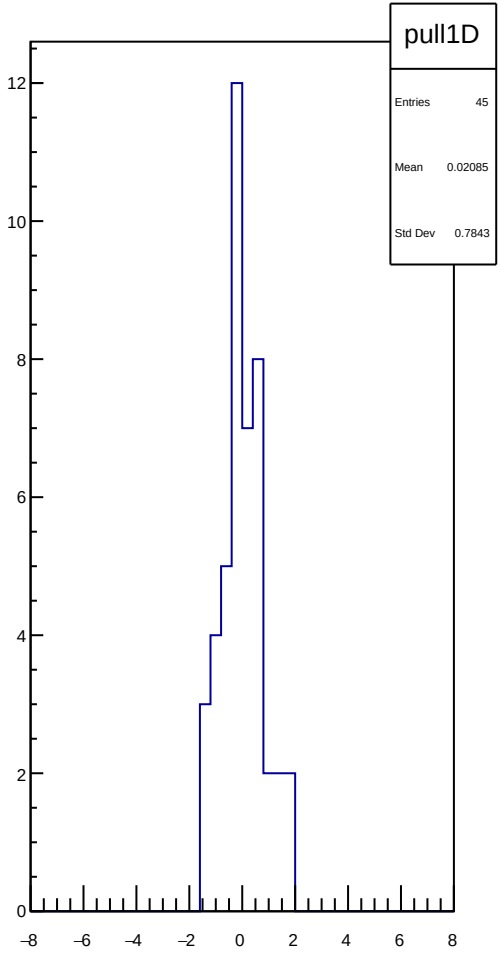

pull1D
Entries 45
Mean 0.07838
Std Dev 1.868

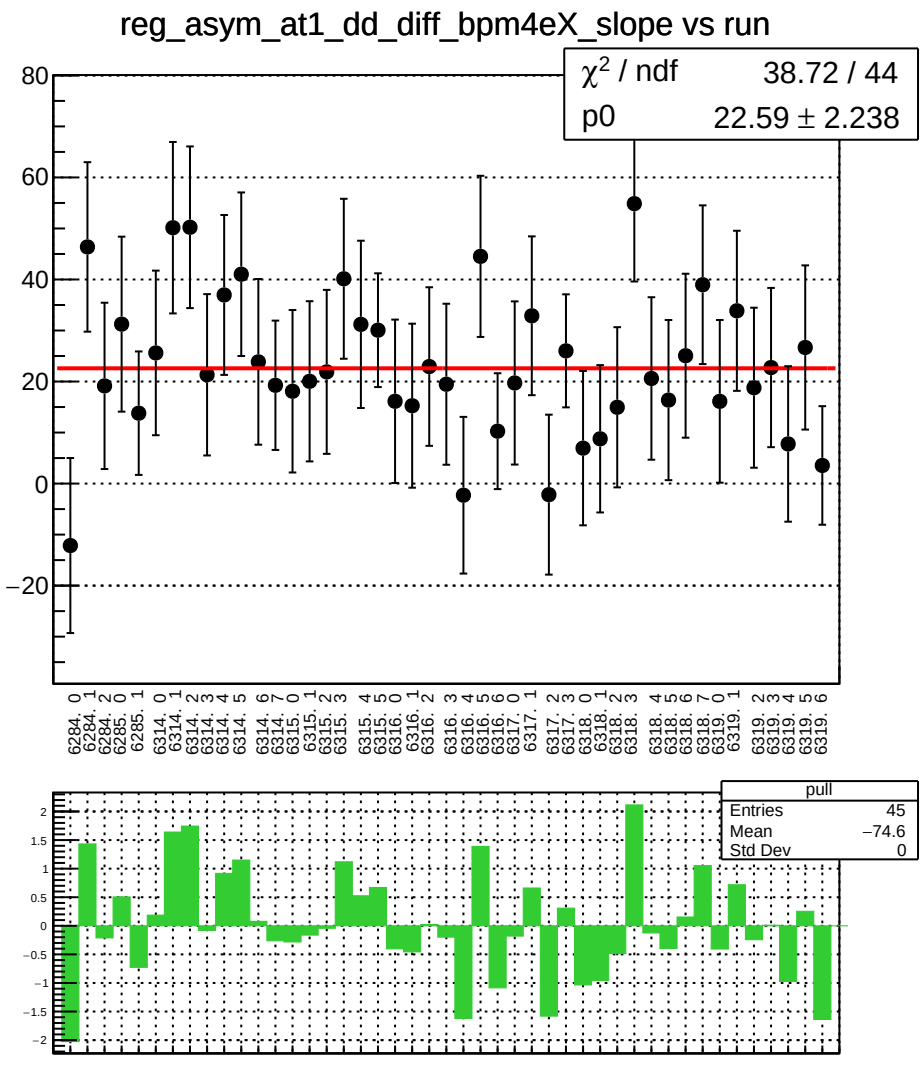

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 77.08 / 44
p0 −23.98 ± 0.1562
pull
Entries 45
Mean 127.7
Std Dev 0

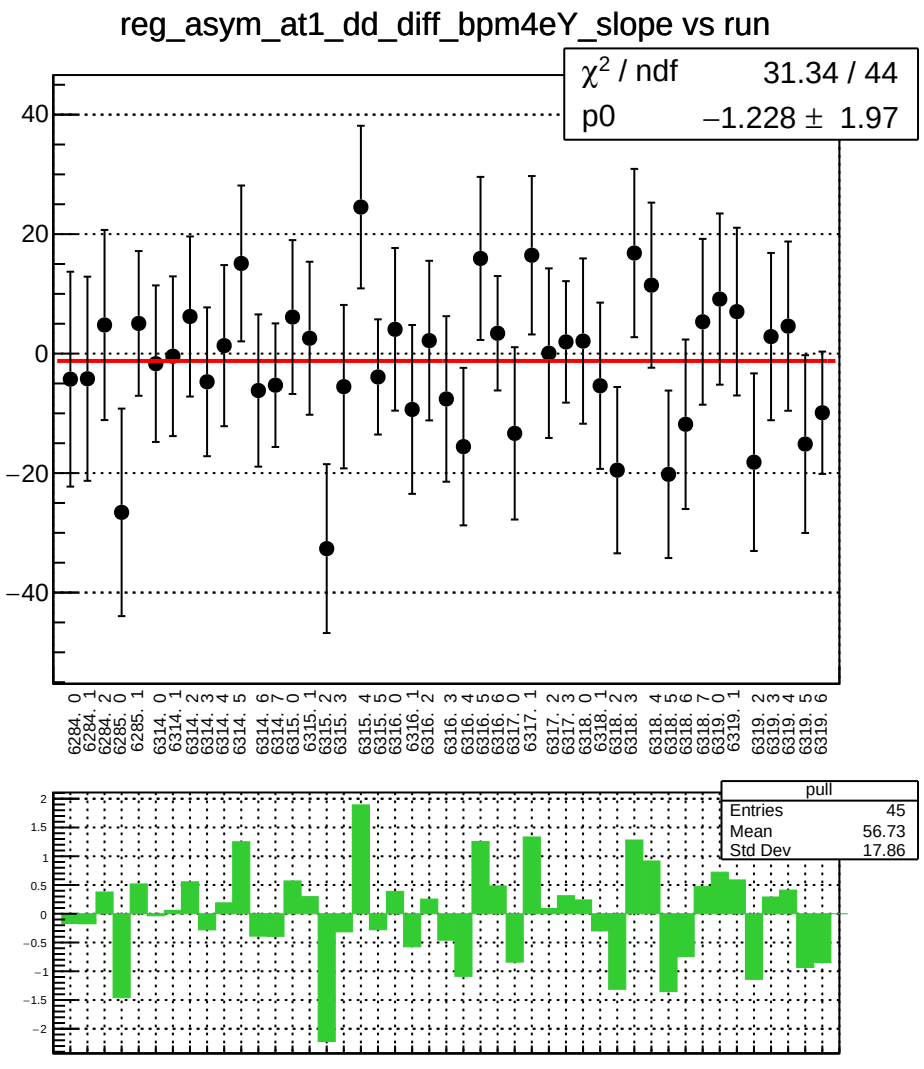

pull1D
Entries 45
Mean −0.0229
Std Dev 1.309

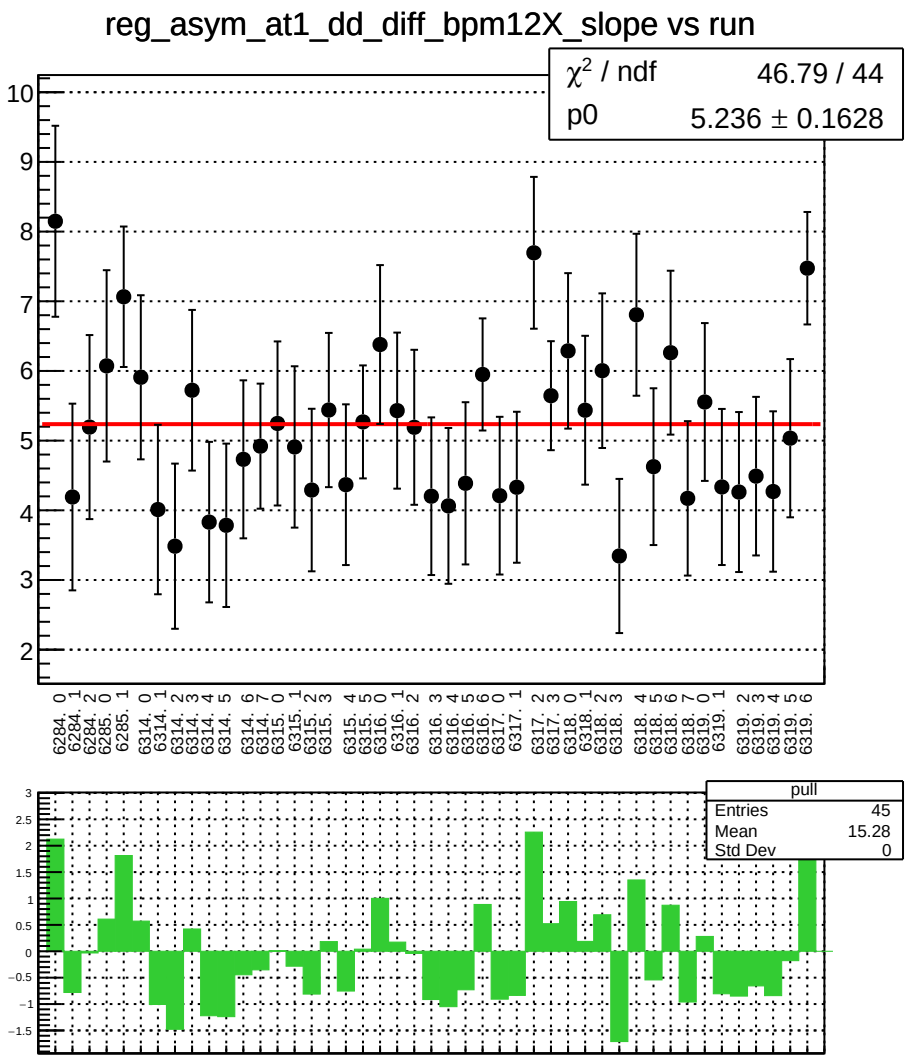

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 40.37 / 44
p0 24.95 ± 2.184
pull
Entries 45
Mean −65.03
Std Dev 0
pull1D
Entries 45
Mean −0.02564
Std Dev 0.9468

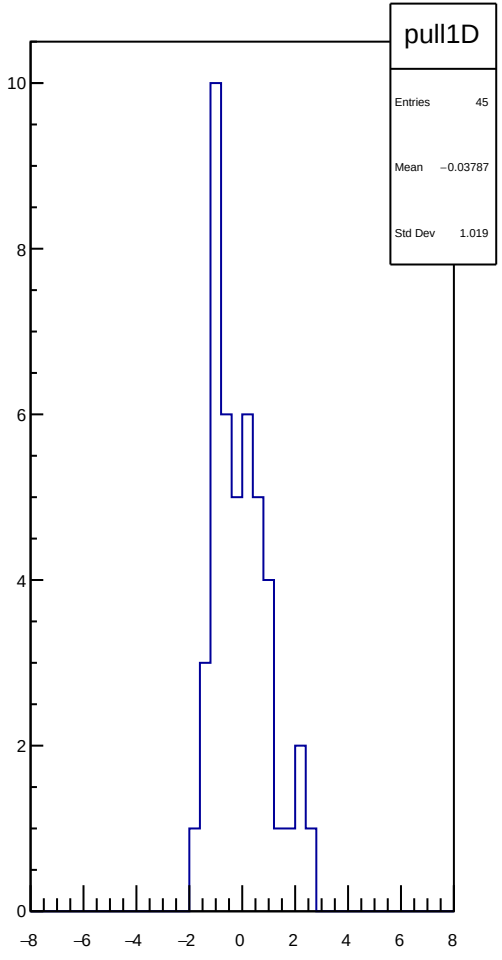

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.7 / 44
p0 0.1931 ± 1.602
pull
Entries 45
Mean 45.51
Std Dev 18.12

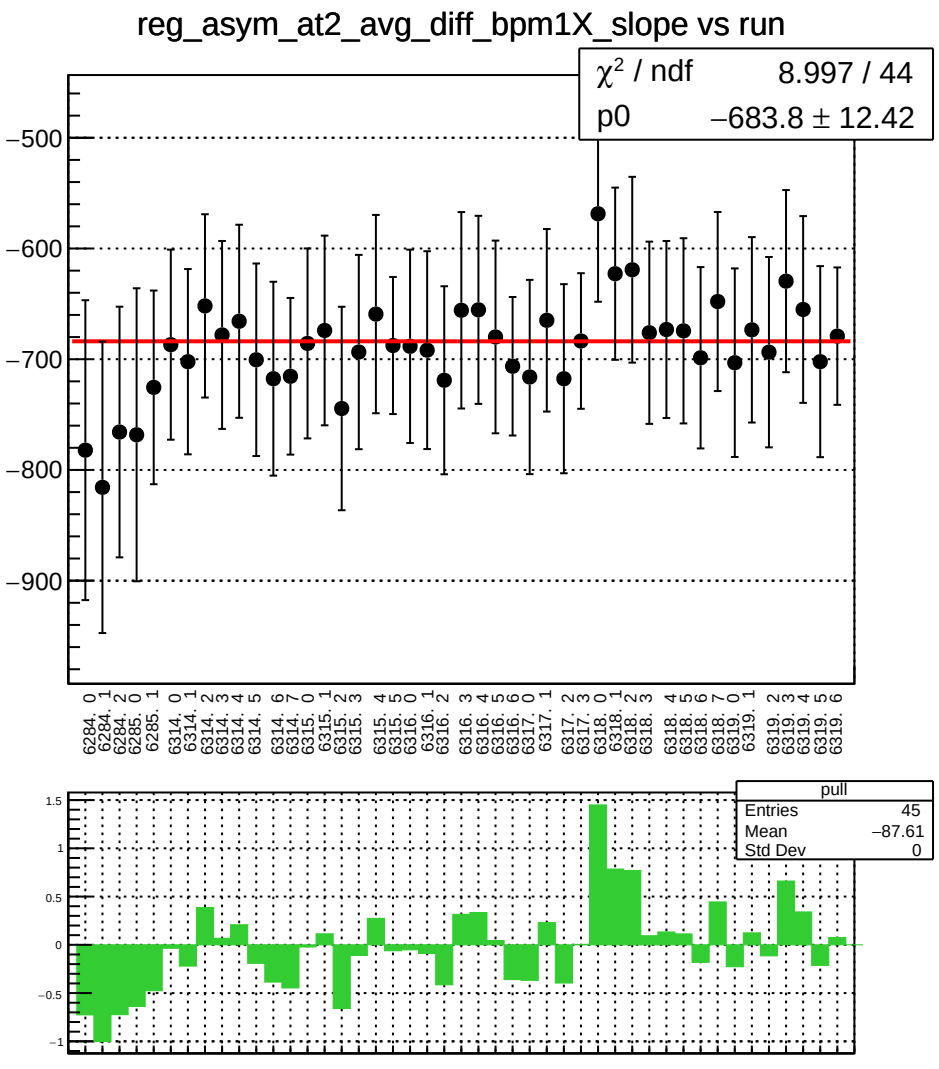

pull1D
Entries 45
Mean 0.02085
Std Dev 0.7843

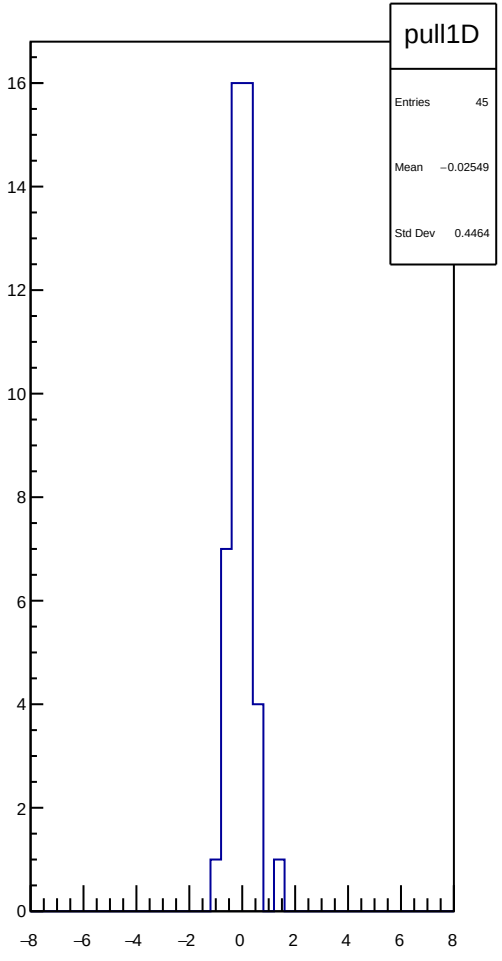

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.72 / 44
p0 22.59 ± 2.238
80
60
40
20
0
−20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −74.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02396
Std Dev 0.9273
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

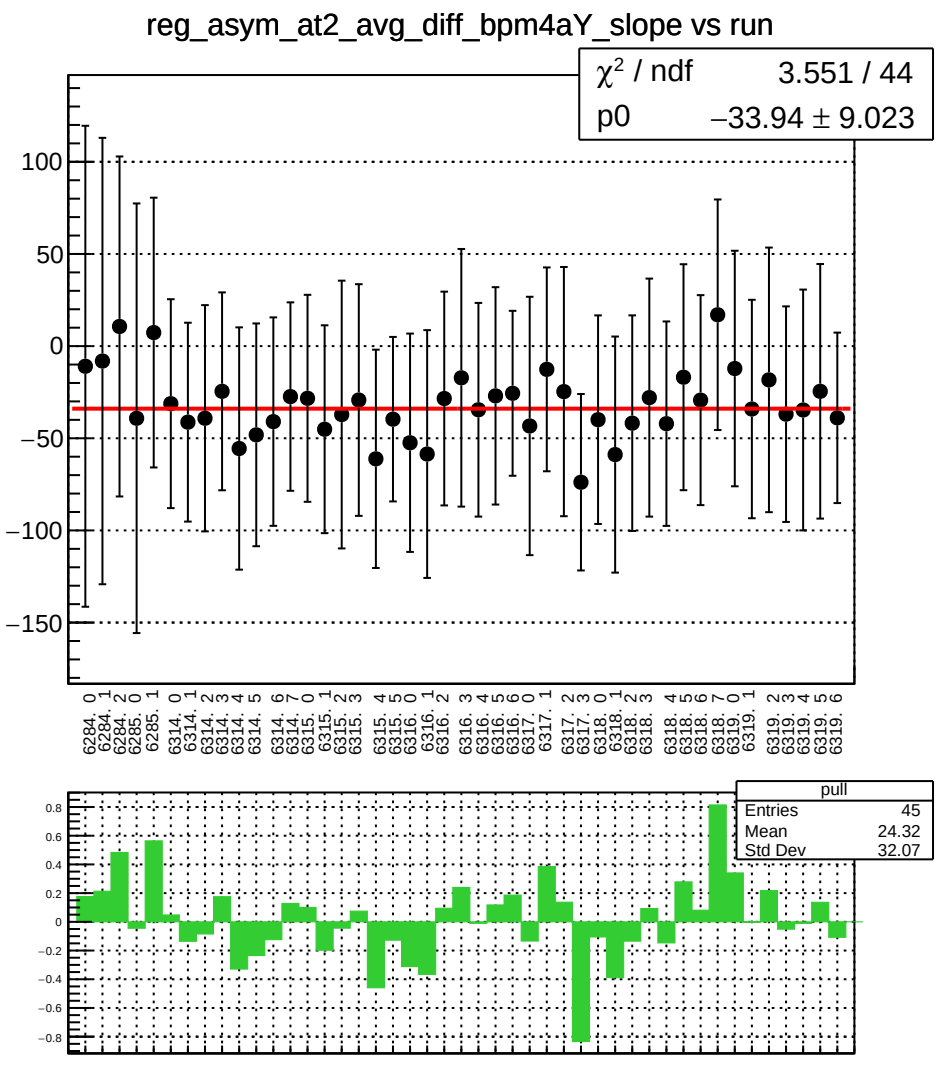

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.34 / 44
p0 −1.228 ± 1.97
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 56.73
Std Dev 17.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0122
Std Dev 0.8344
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

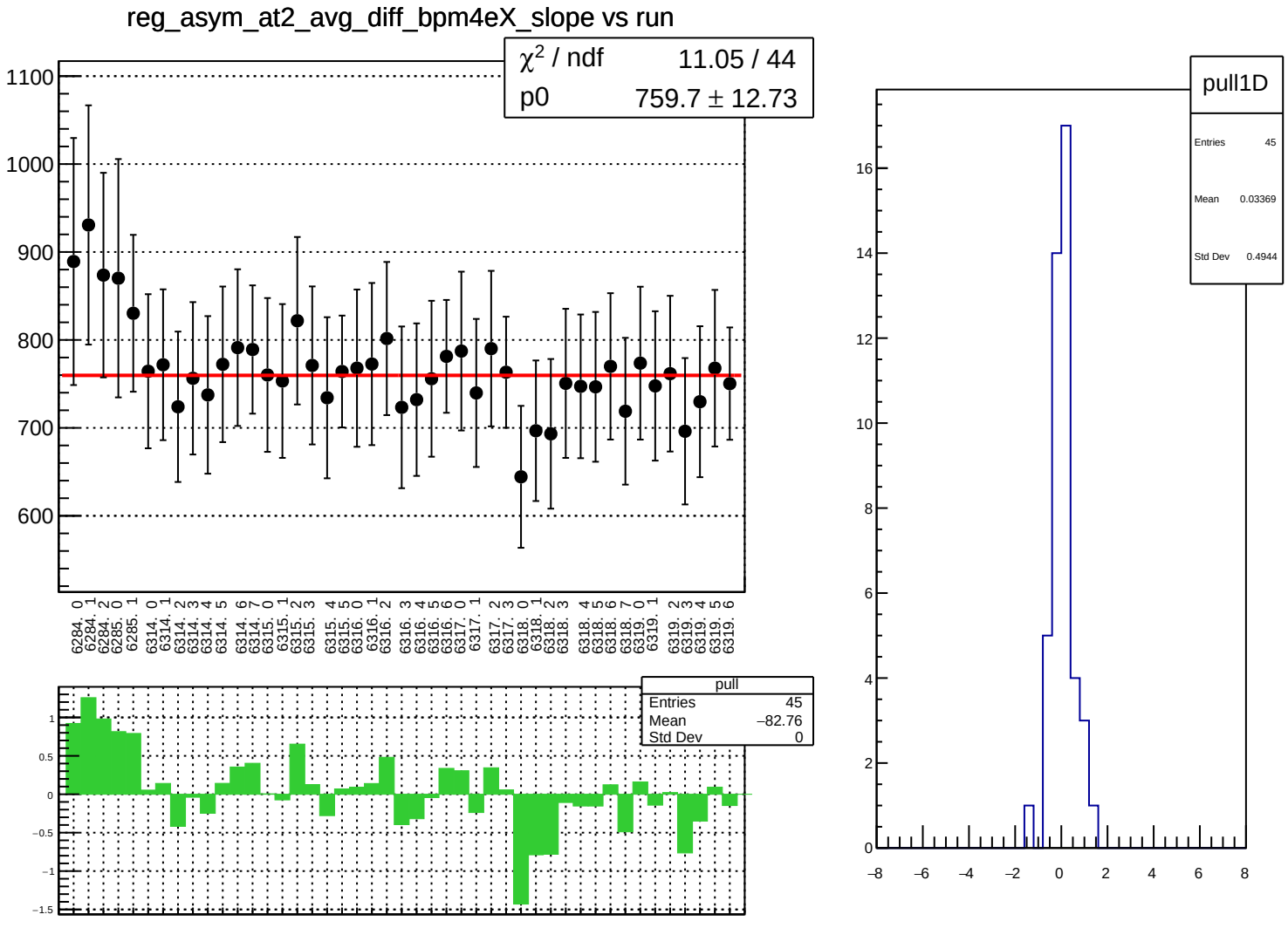

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 46.79 / 44
p0 5.236 ± 0.1628
pull
Entries 45
Mean 15.28
Std Dev 0

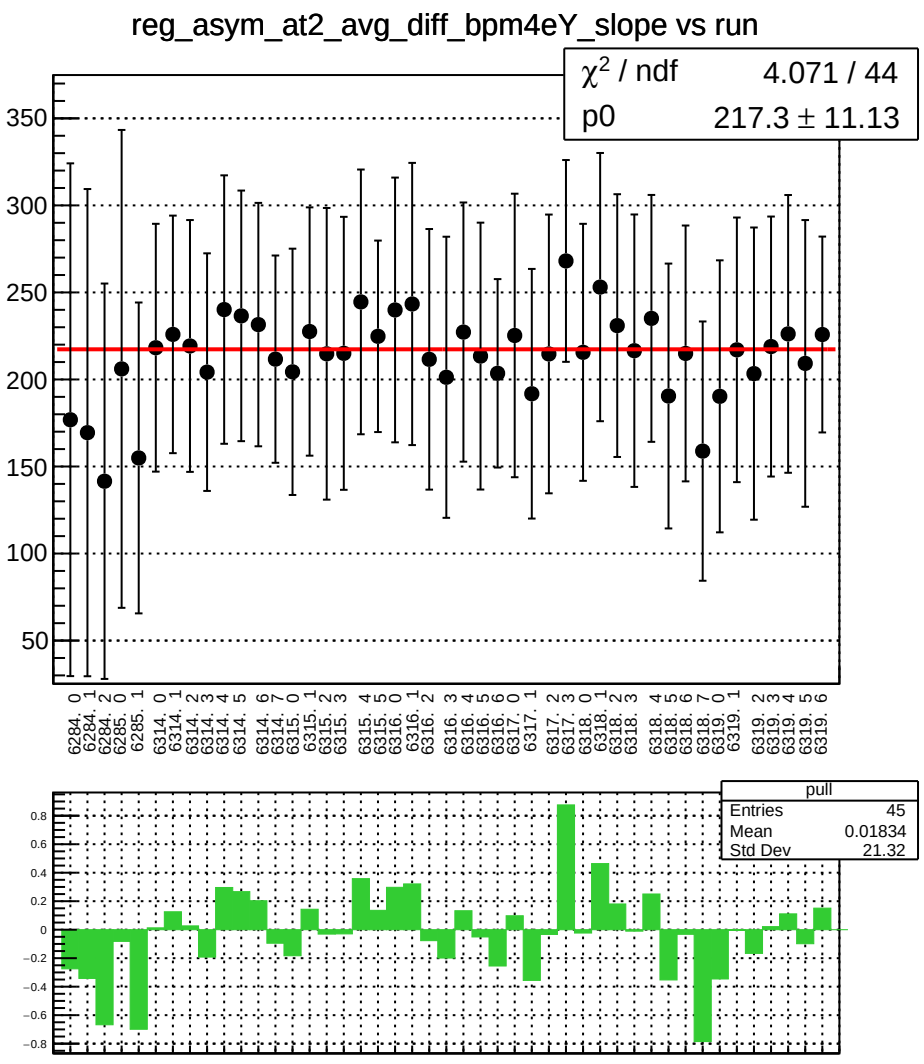

pull1D
Entries 45
Mean −0.03787
Std Dev 1.019

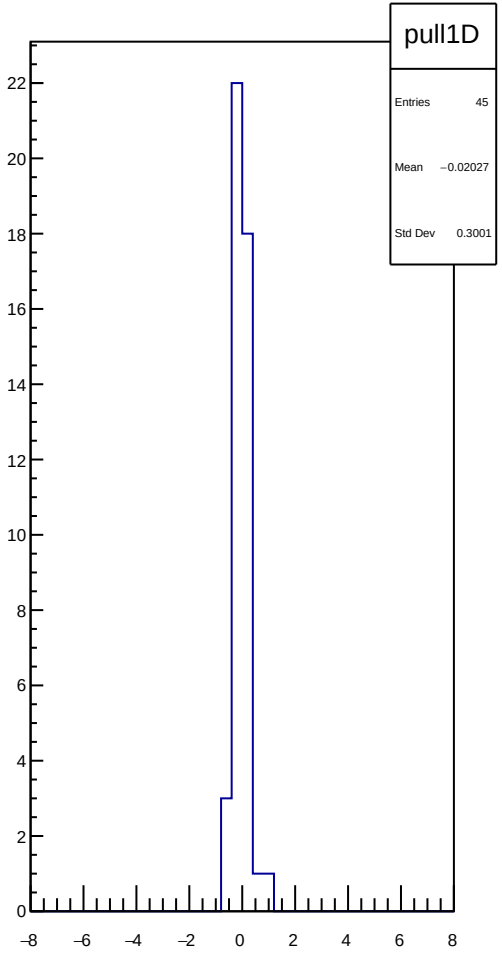

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.997 / 44
p0 −683.8 ± 12.42
−500
−600
−700
−800
−900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −87.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1

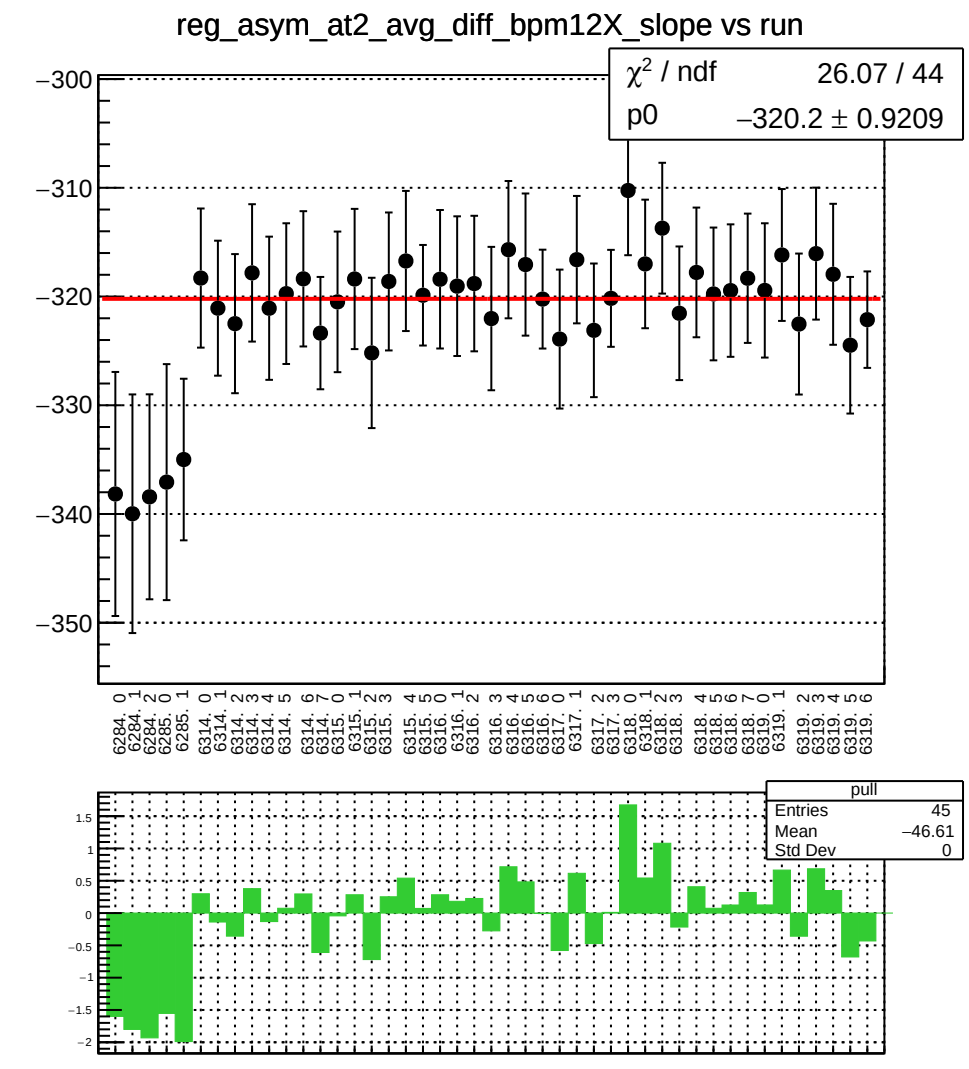

pull1D
Entries 45
Mean −0.02549
Std Dev 0.4464
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

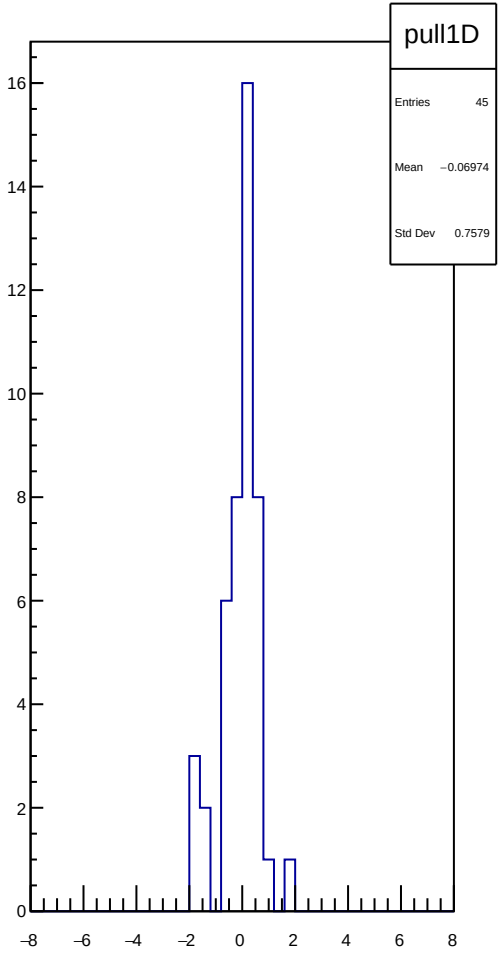

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.551 / 44
p0 −33.94 ± 9.023
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 24.32
Std Dev 32.07
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.01553
Std Dev 0.2805
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

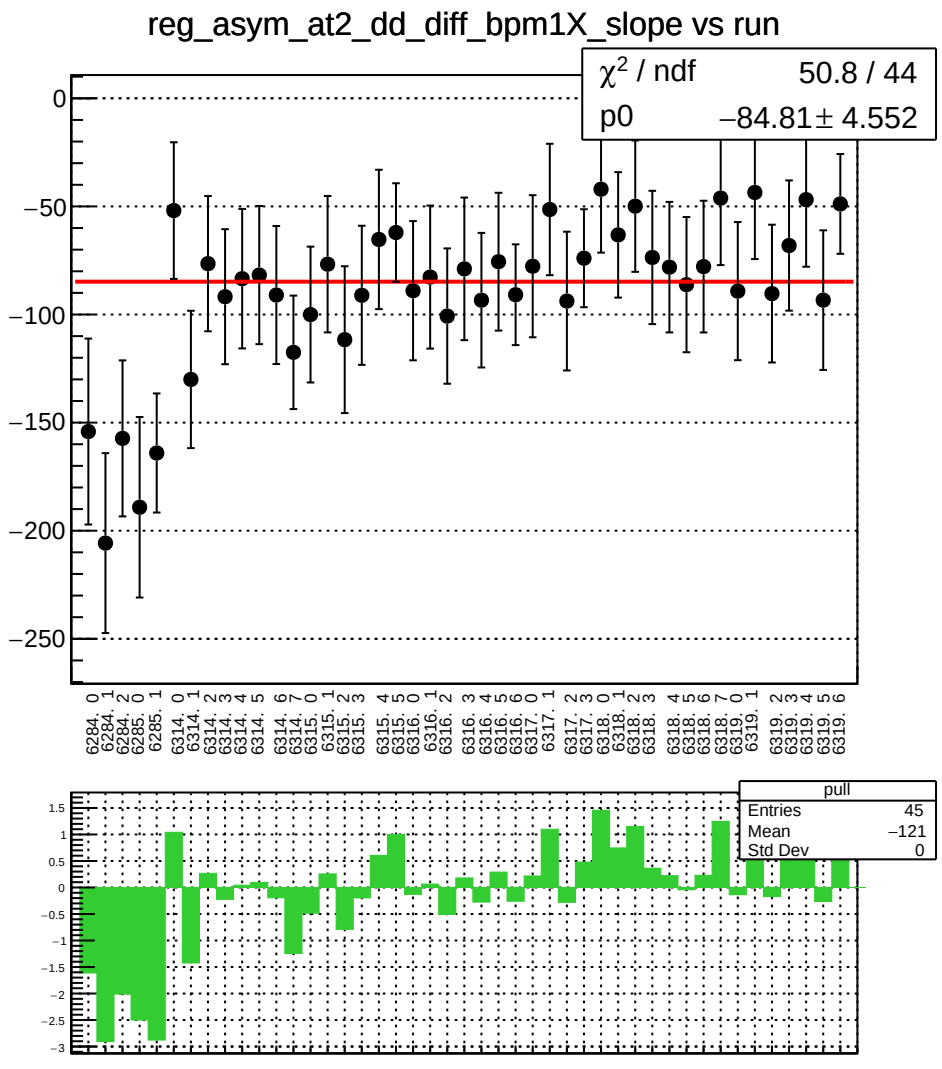

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.05 / 44
p0 759.7 ± 12.73
1100
1000
900
800
700
600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean –82.76
Std Dev 0
1
0.5
0
–0.5
–1
–1.5
pull1D
Entries 45
Mean 0.03369
Std Dev 0.4944
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

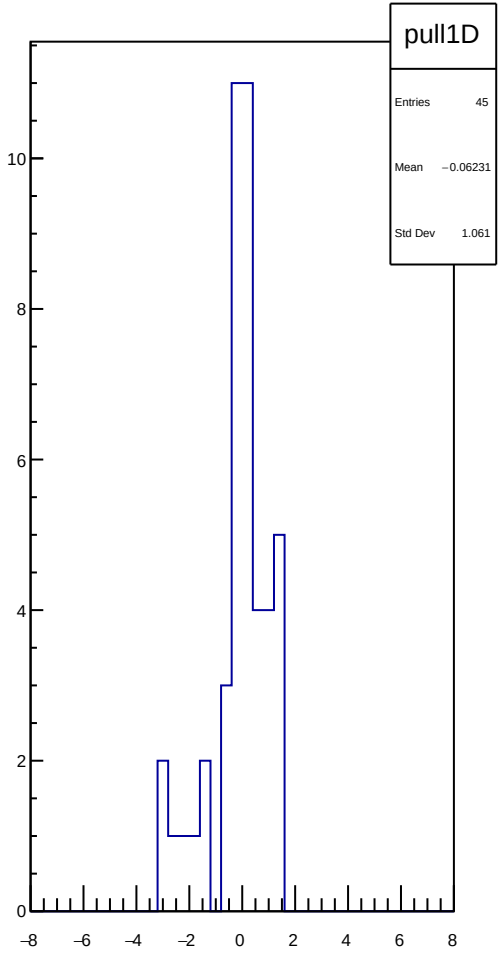

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 4.071 / 44
p0 217.3 ± 11.13
pull
Entries 45
Mean 0.01834
Std Dev 21.32

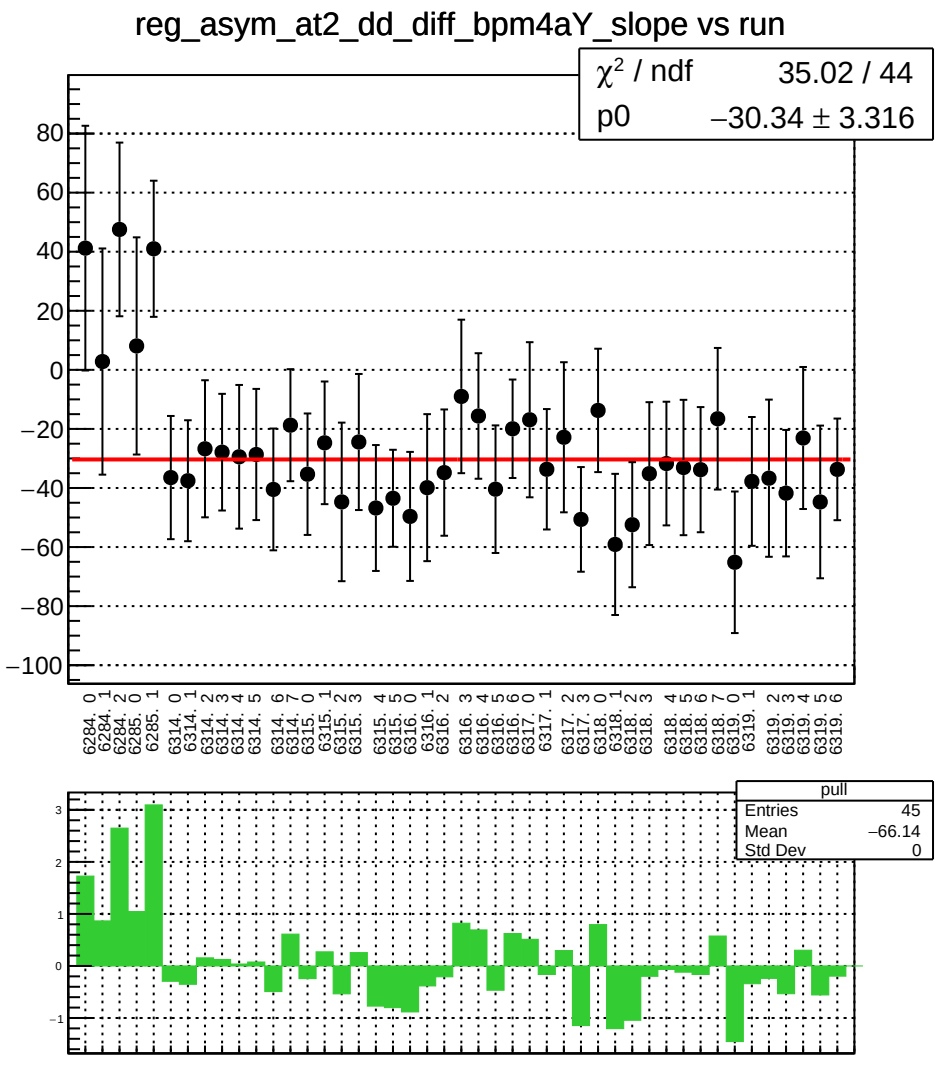

pull1D
Entries 45
Mean −0.02027
Std Dev 0.3001

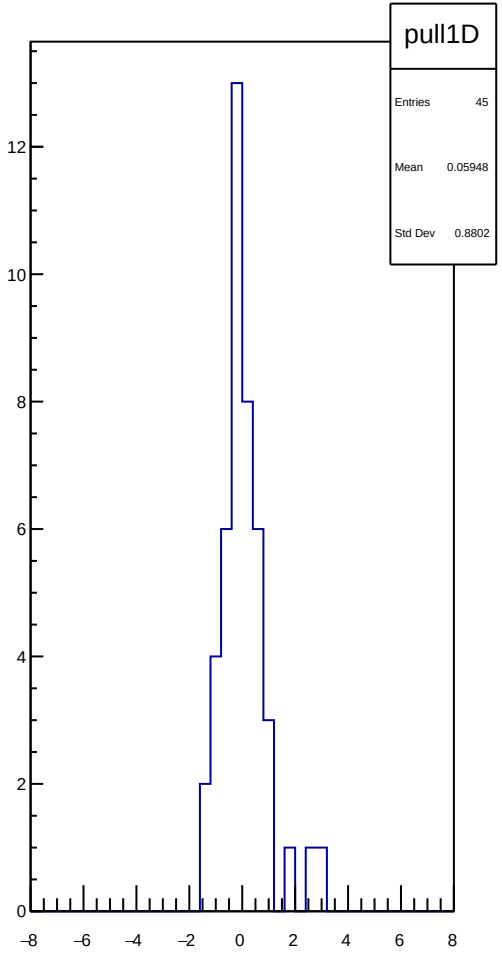

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 26.07 / 44
p0 −320.2 ± 0.9209
−300
−310
−320
−330
−340
−350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −46.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

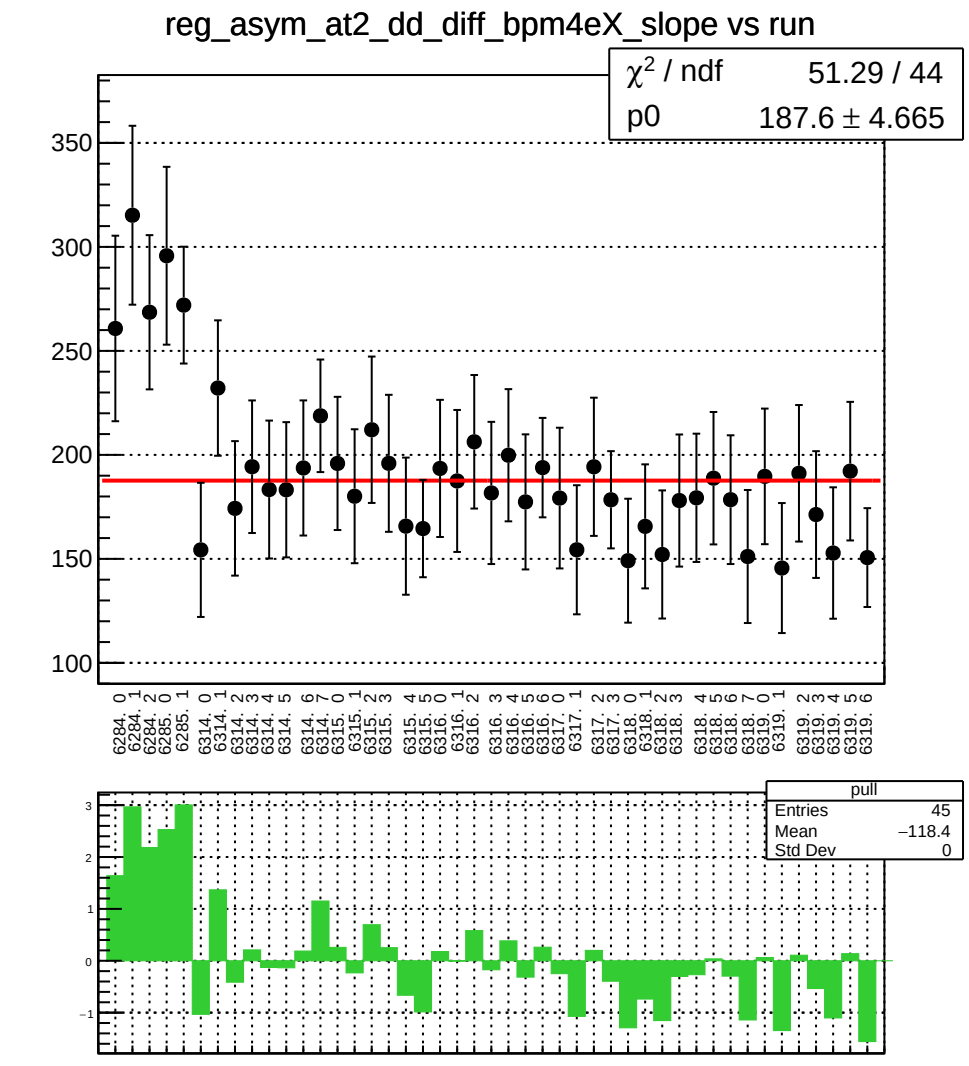

pull1D
Entries 45
Mean −0.06974
Std Dev 0.7579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

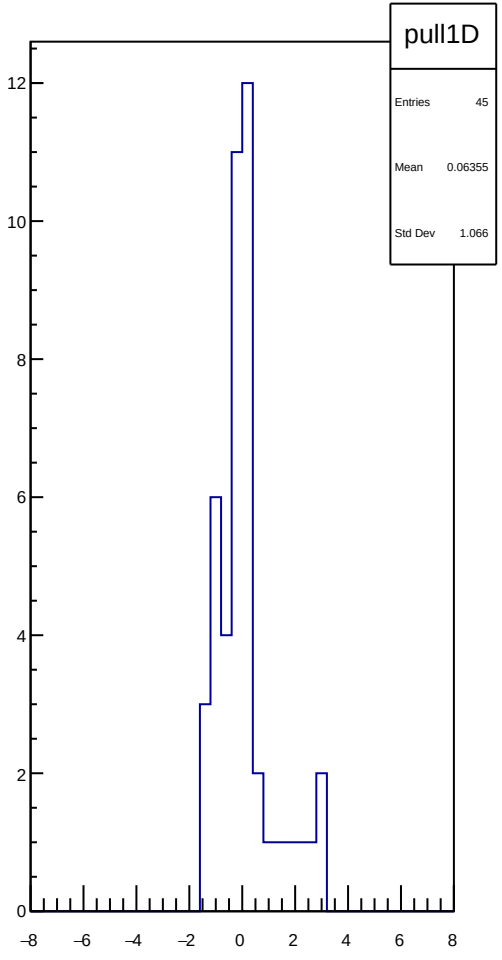

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 50.8 / 44
p0 −84.81 ± 4.552
pull
Entries 45
Mean −121
Std Dev 0

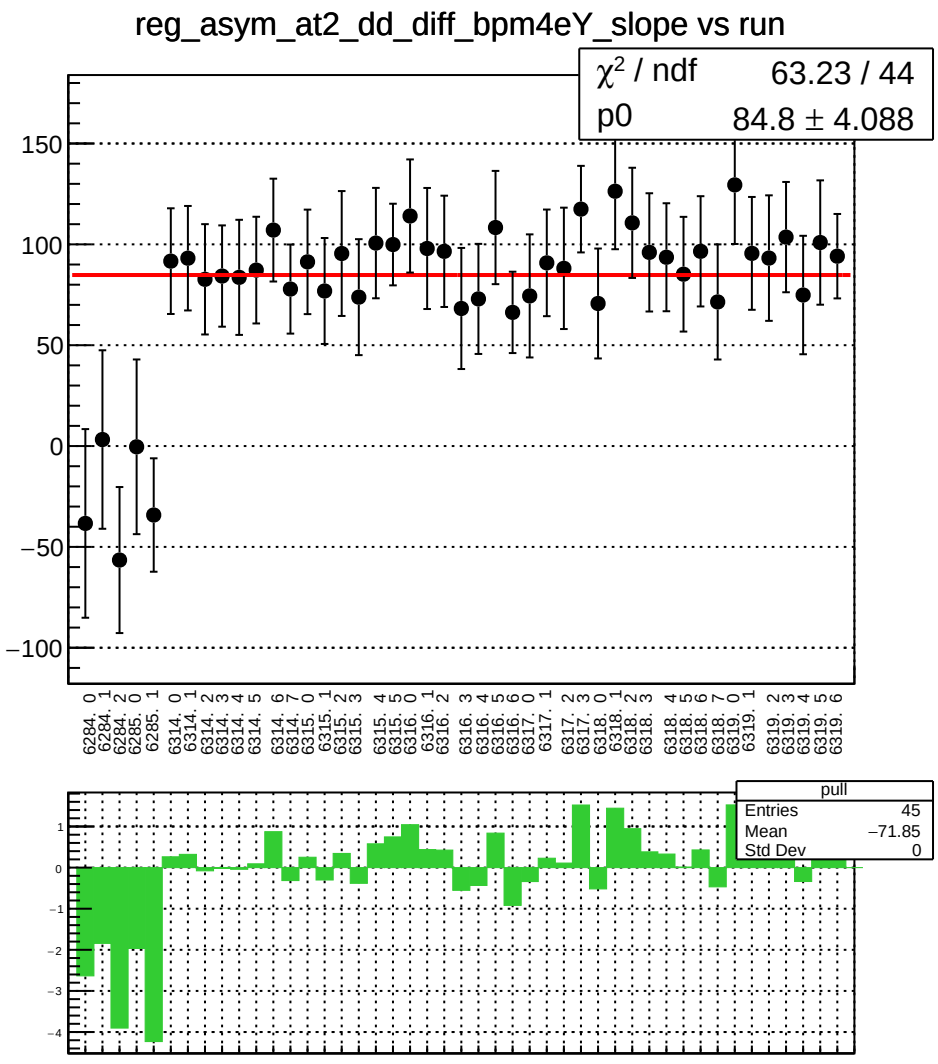

pull1D
Entries 45
Mean −0.06231
Std Dev 1.061

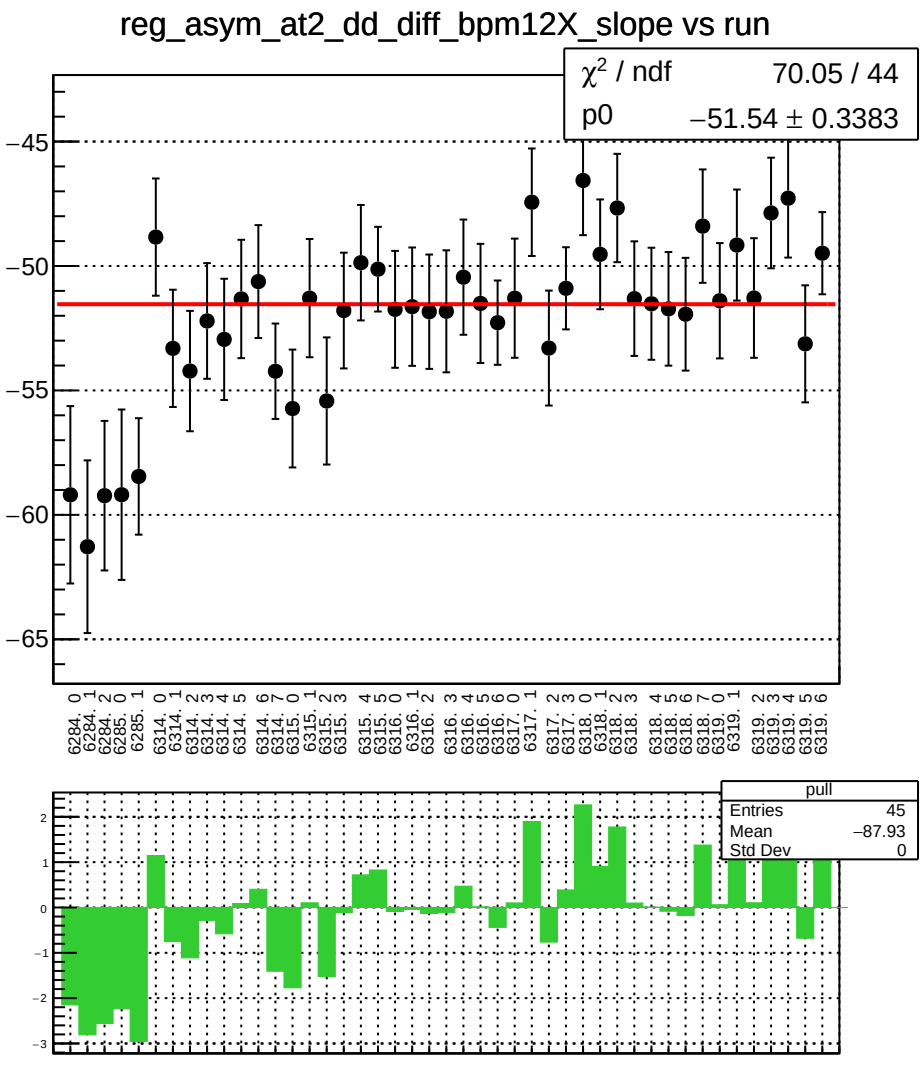

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.02 / 44
p0 −30.34 ± 3.316
pull
Entries 45
Mean −66.14
Std Dev 0

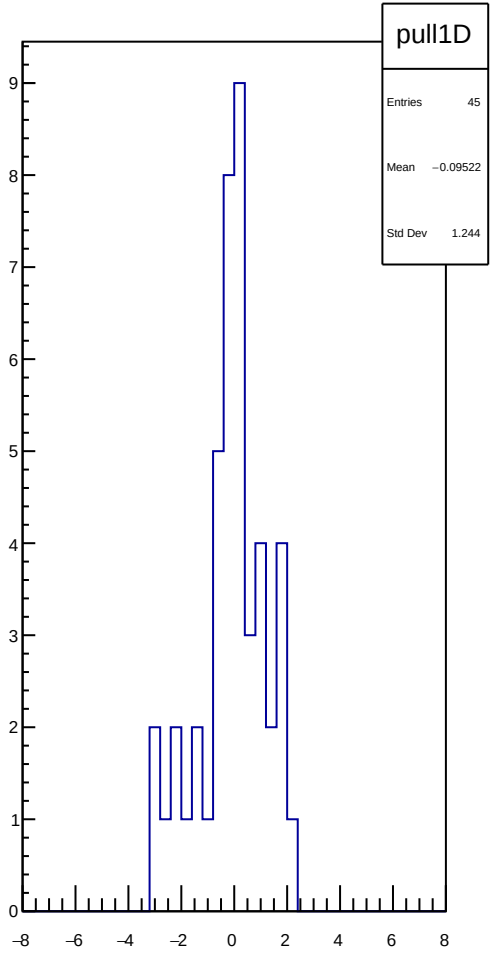

pull1D
Entries 45
Mean 0.05948
Std Dev 0.8802

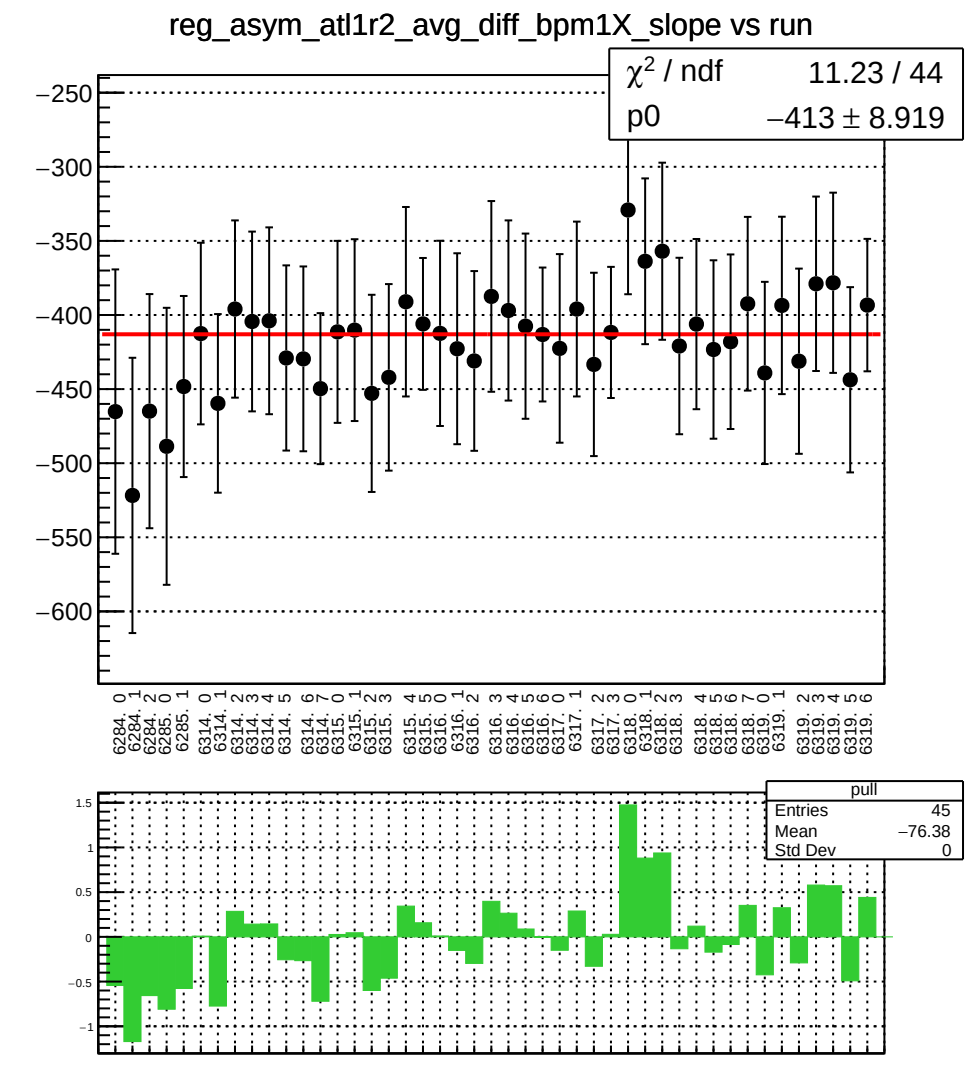

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.29 / 44
p0 187.6 ± 4.665
pull
Entries 45
Mean −118.4
Std Dev 0

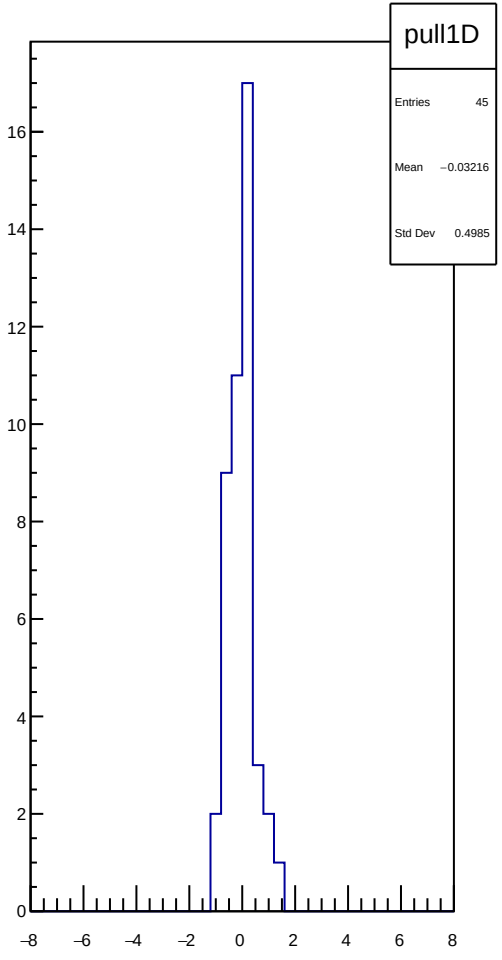

pull1D
Entries 45
Mean 0.06355
Std Dev 1.066

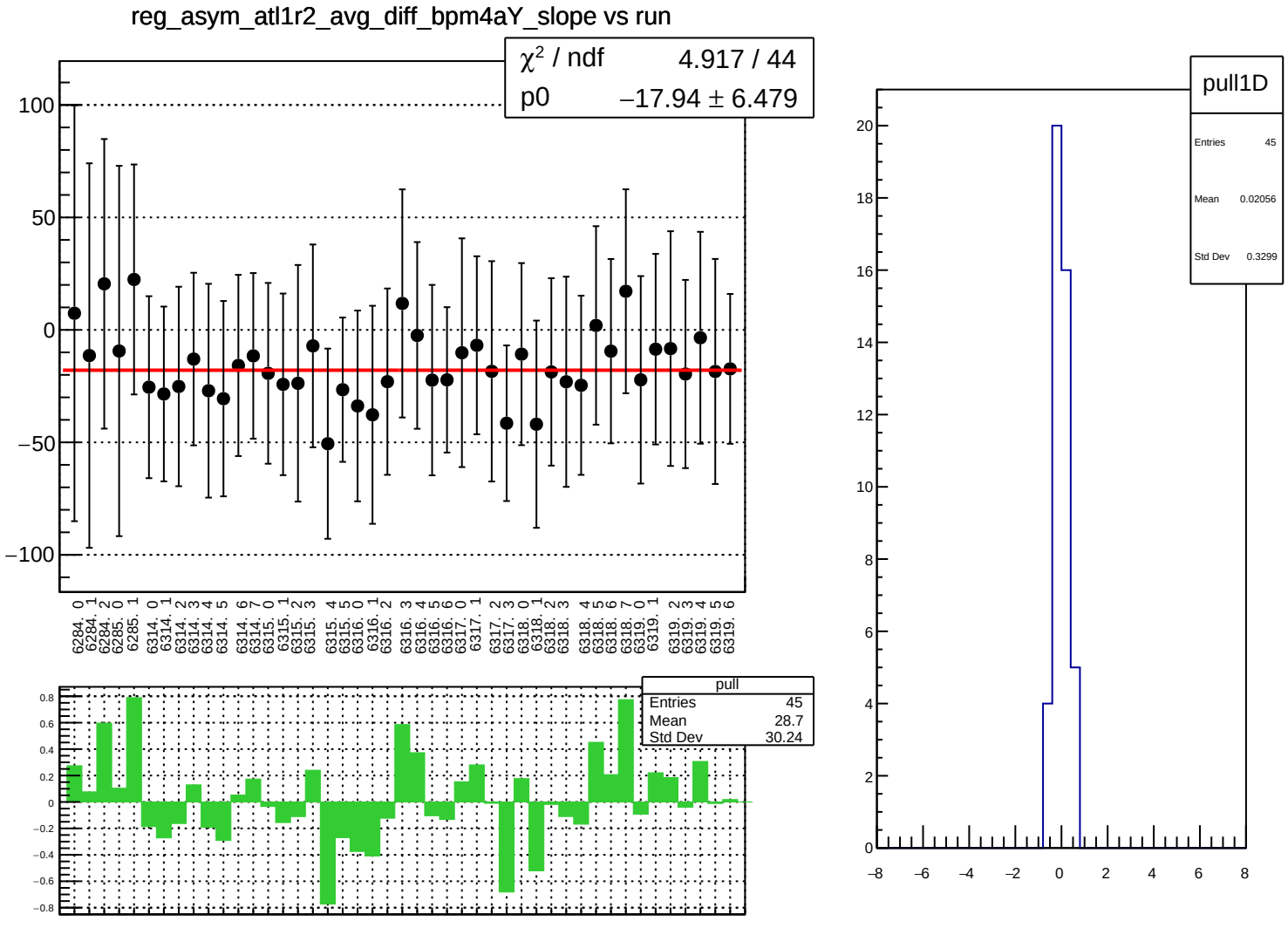

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.23 / 44
p0 84.8 ± 4.088
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −71.85
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.085
Std Dev 1.182
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

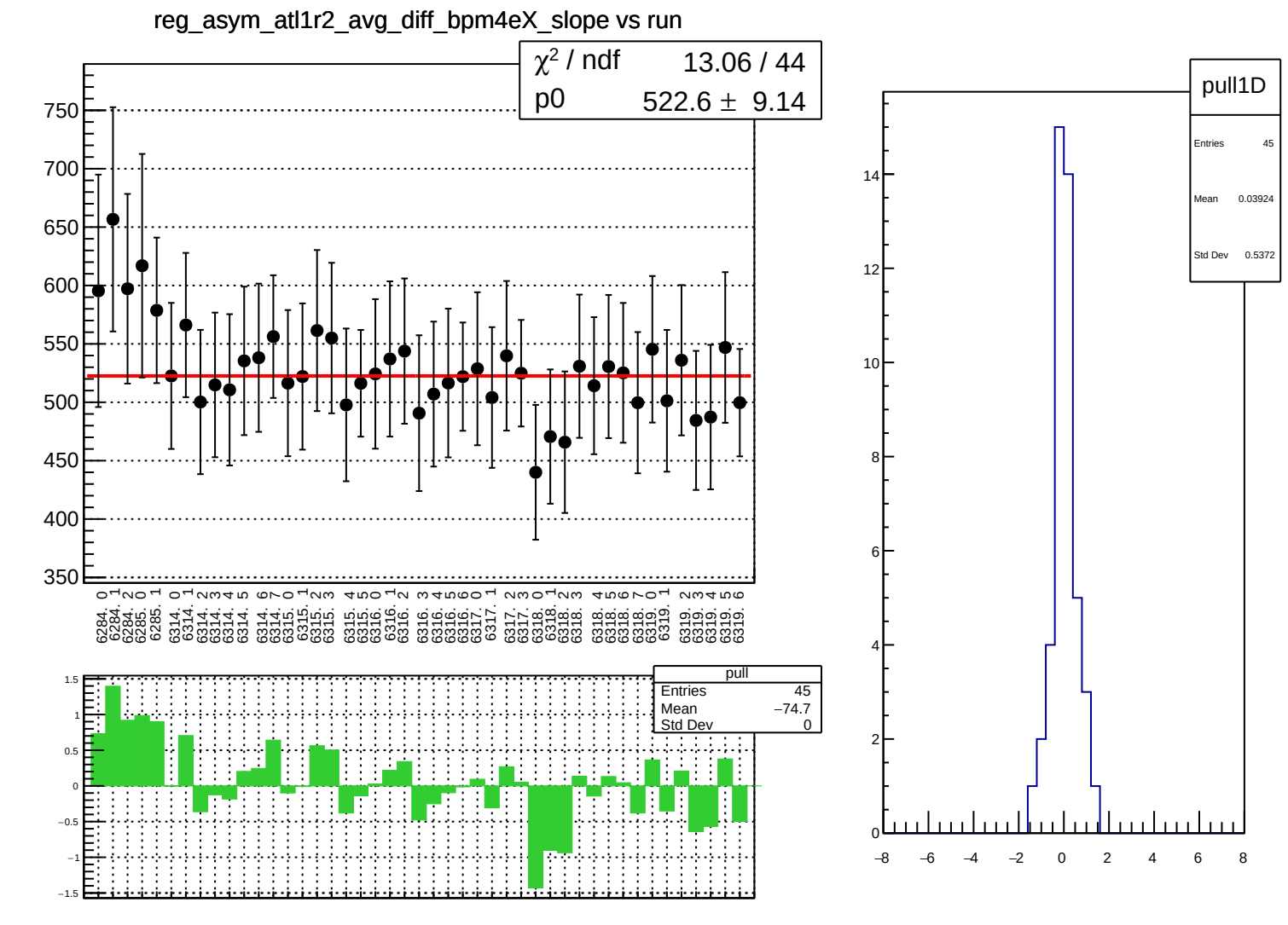

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 70.05 / 44
p0 −51.54 ± 0.3383
−45
−50
−55
−60
−65
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −87.93
Std Dev 0
2
1
0
−1
−2
−3

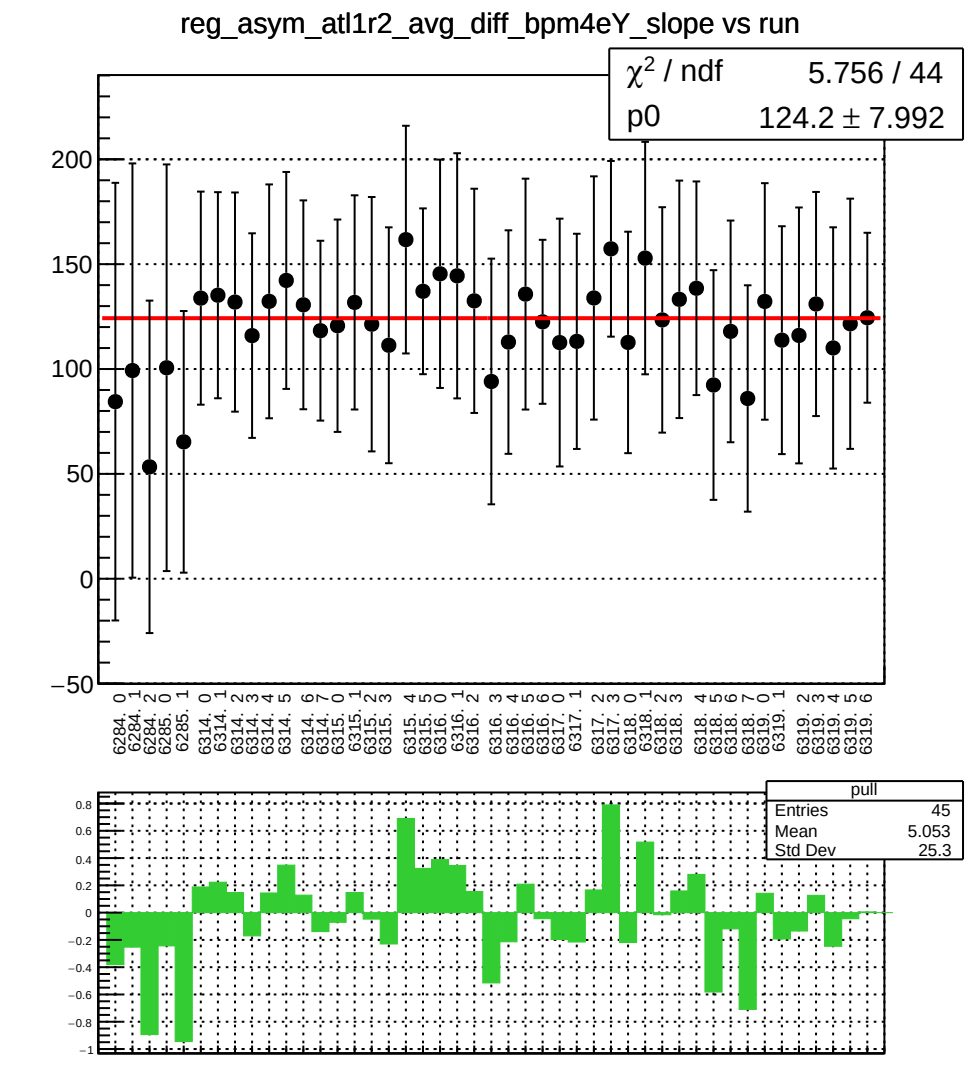

pull1D
Entries 45
Mean −0.09522
Std Dev 1.244
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

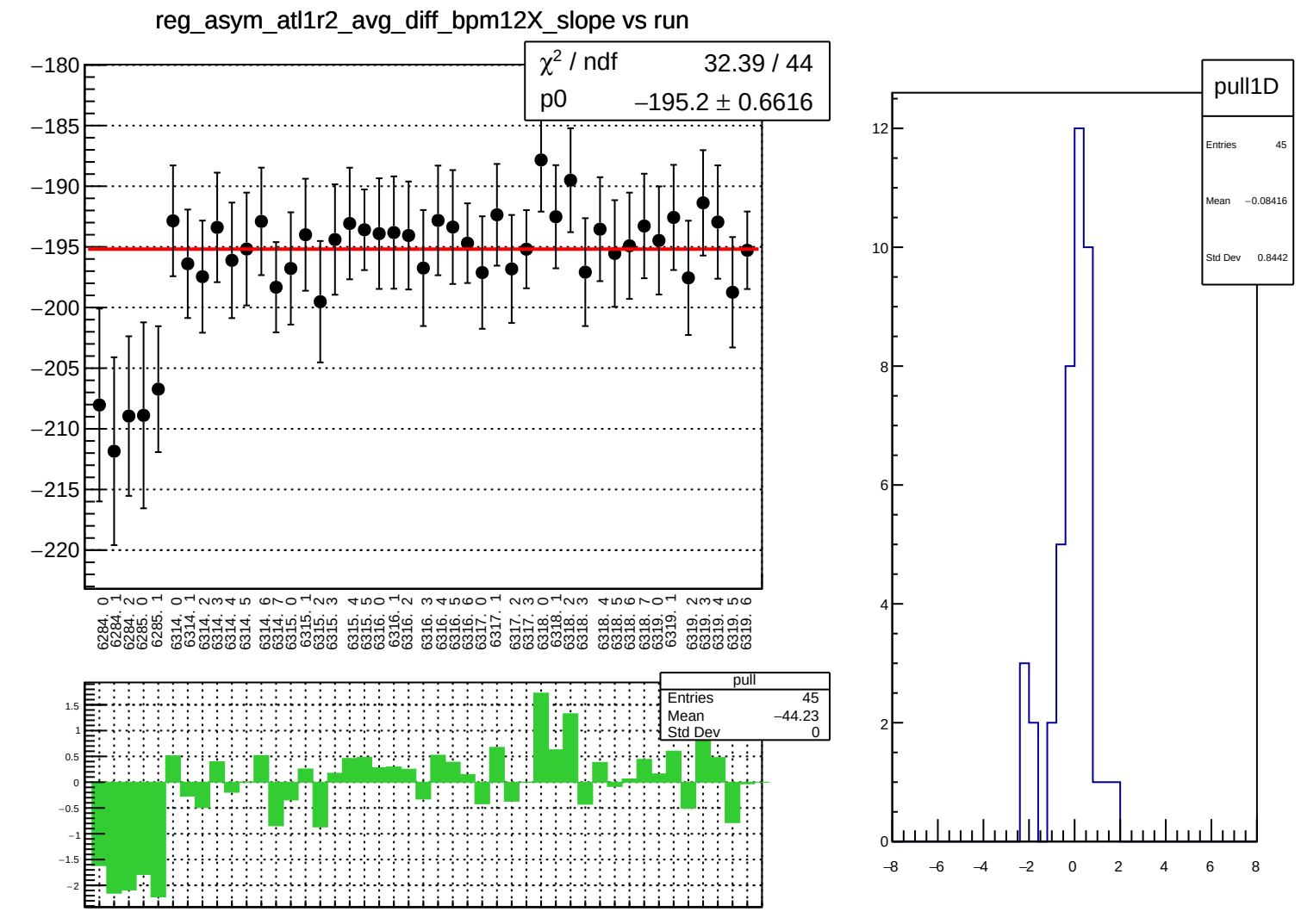

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.23 / 44
p0 −413 ± 8.919
pull
Entries 45
Mean −76.38
Std Dev 0

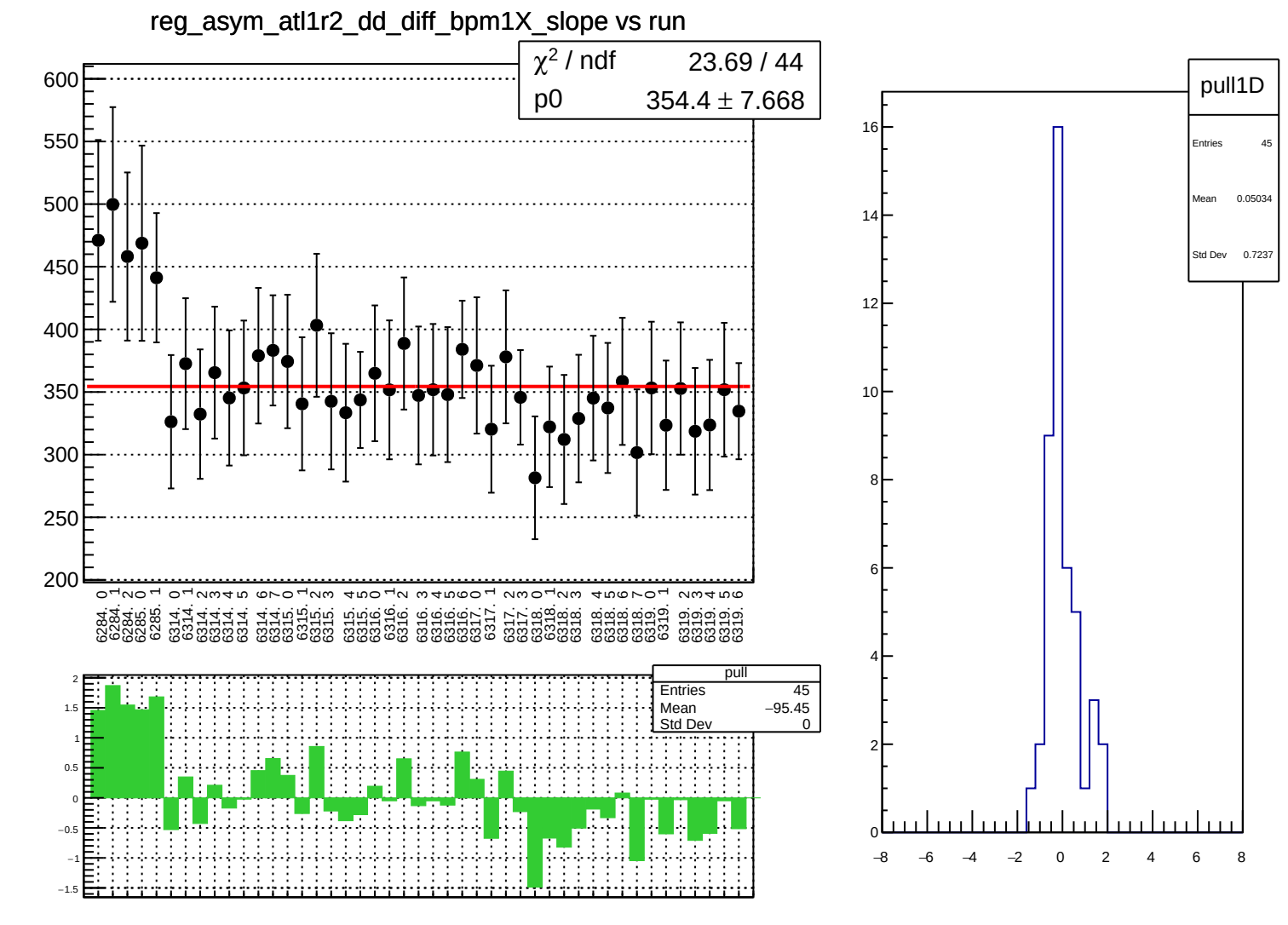

pull1D
Entries 45
Mean −0.03216
Std Dev 0.4985

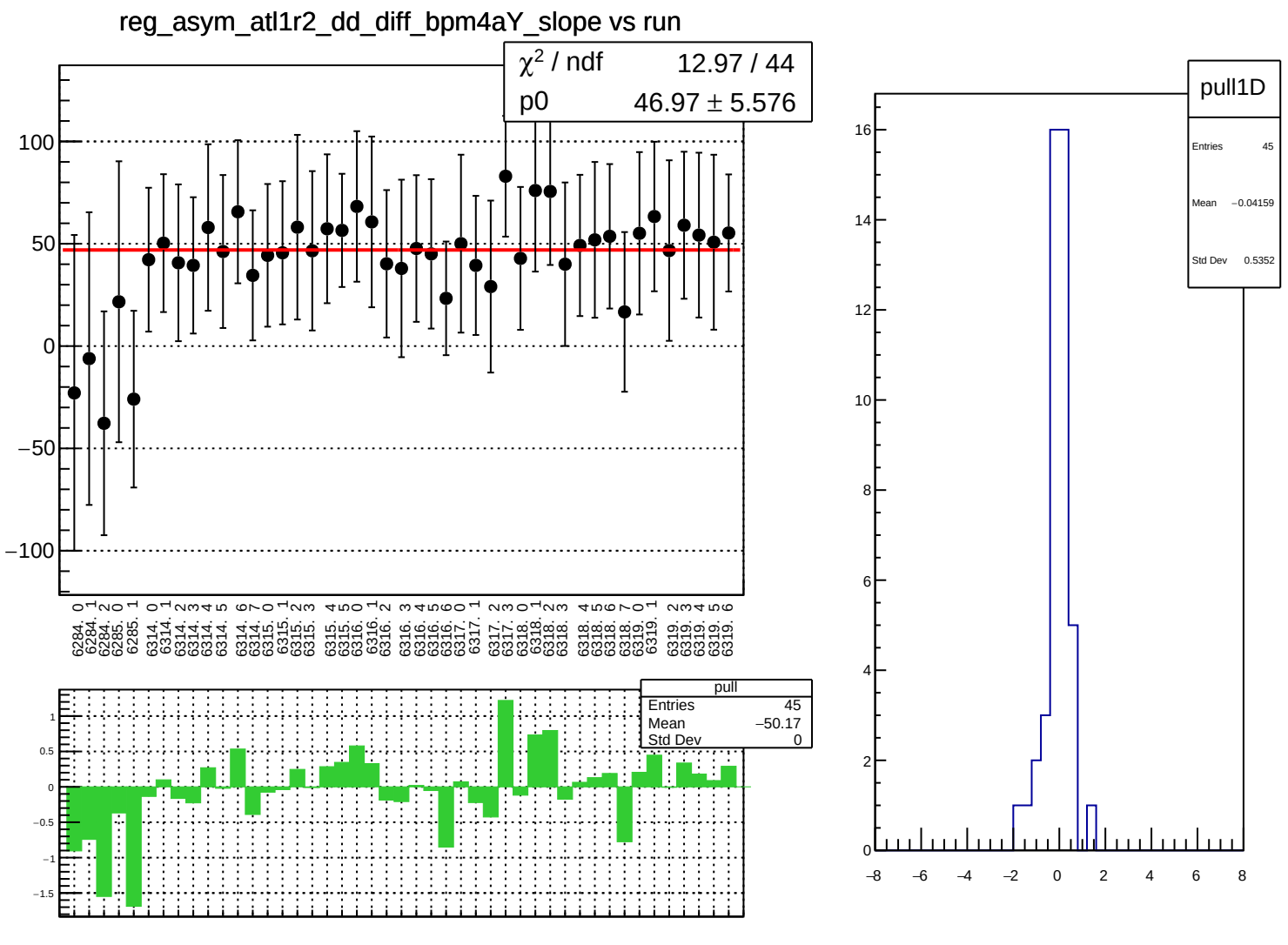

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.917 / 44
p0 −17.94 ± 6.479
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 28.7
Std Dev 30.24
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.02056
Std Dev 0.3299
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

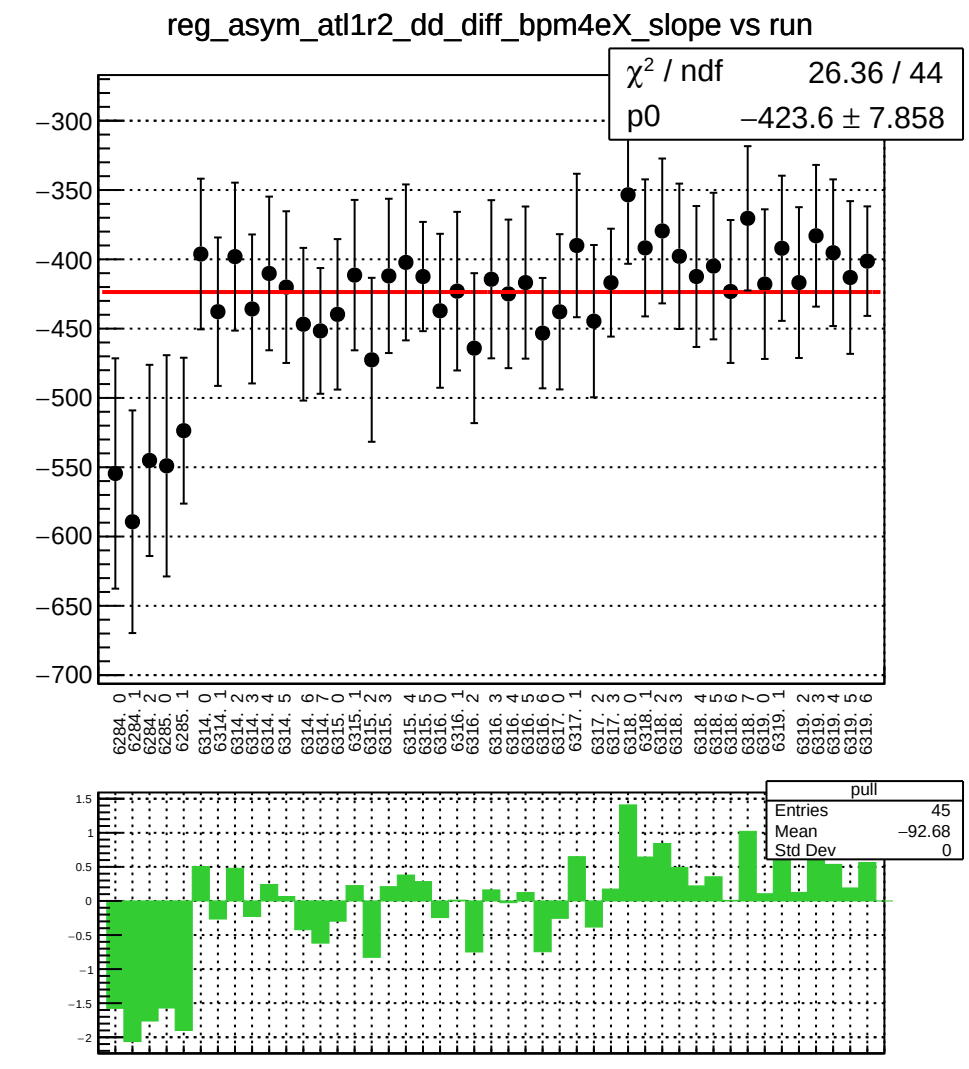

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.06 / 44
p0 522.6 ± 9.14
750
700
650
600
550
500
450
400
350
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −74.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.03924
Std Dev 0.5372
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

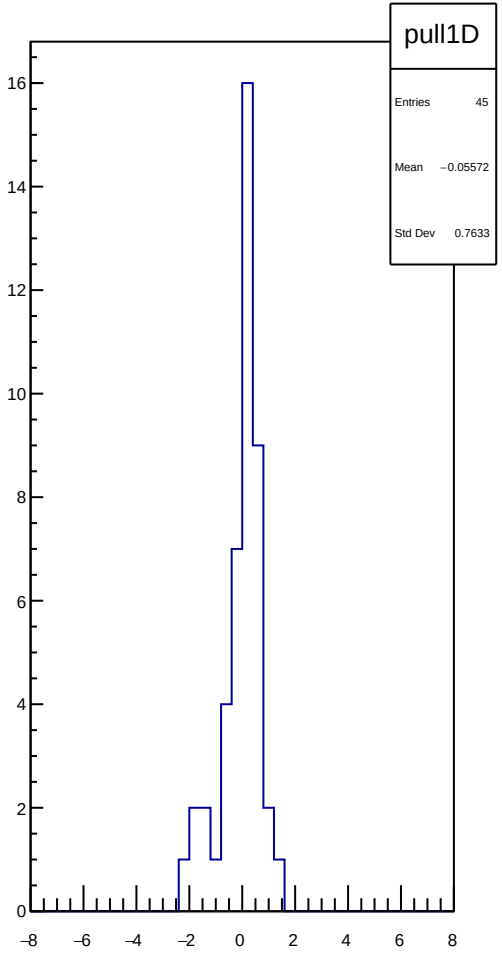

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.756 / 44
p0 124.2 ± 7.992
200
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 5.053
Std Dev 25.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.02664
Std Dev 0.3567
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

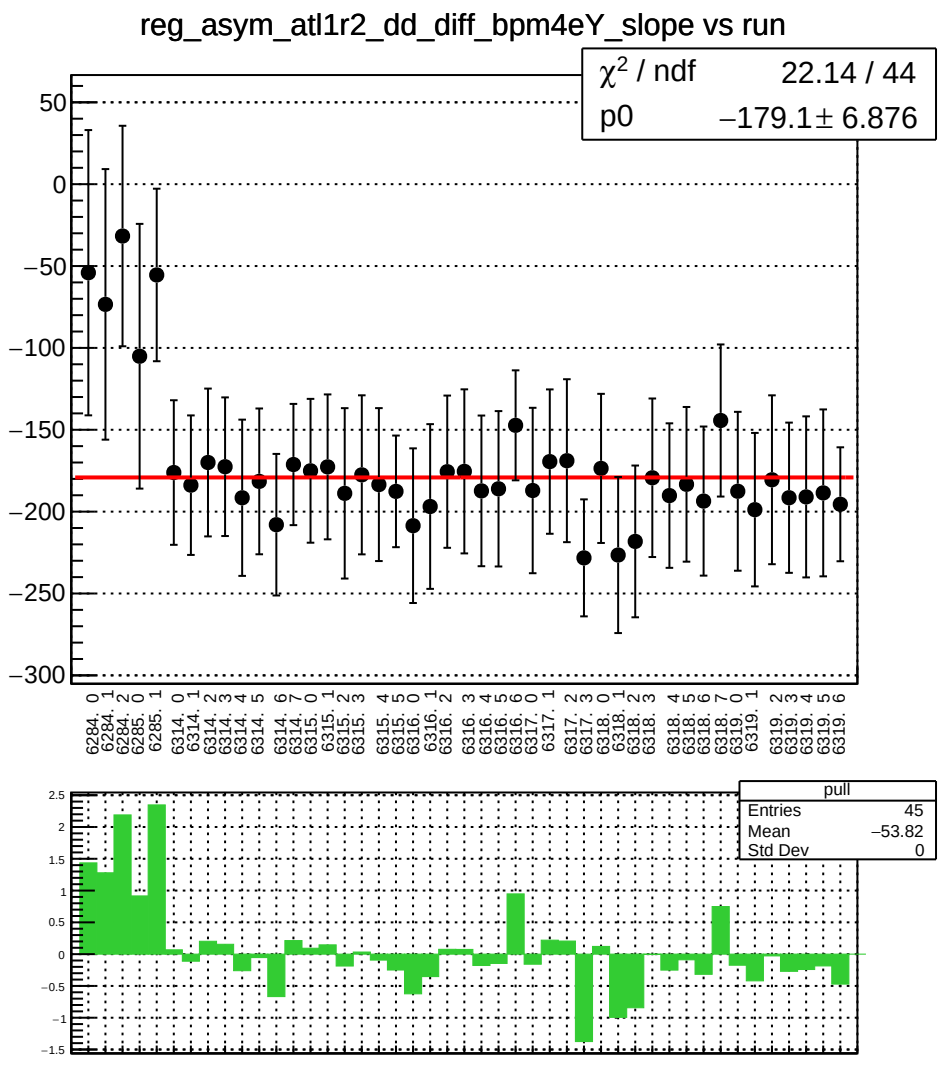

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.39 / 44
p0 −195.2 ± 0.6616
pull
Entries 45
Mean −44.23
Std Dev 0
pull1D
Entries 45
Mean −0.08416
Std Dev 0.8442

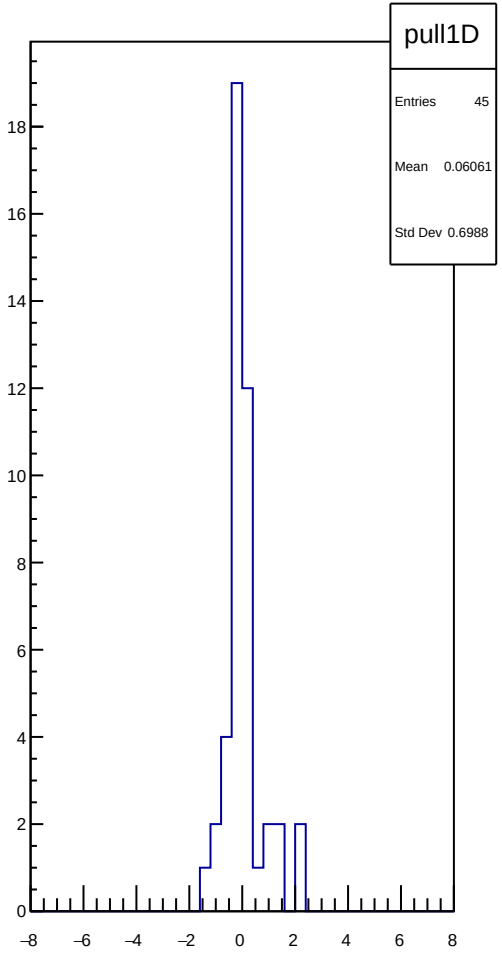

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 23.69 / 44
p0 354.4 ± 7.668
pull
Entries 45
Mean −95.45
Std Dev 0
pull1D
Entries 45
Mean 0.05034
Std Dev 0.7237

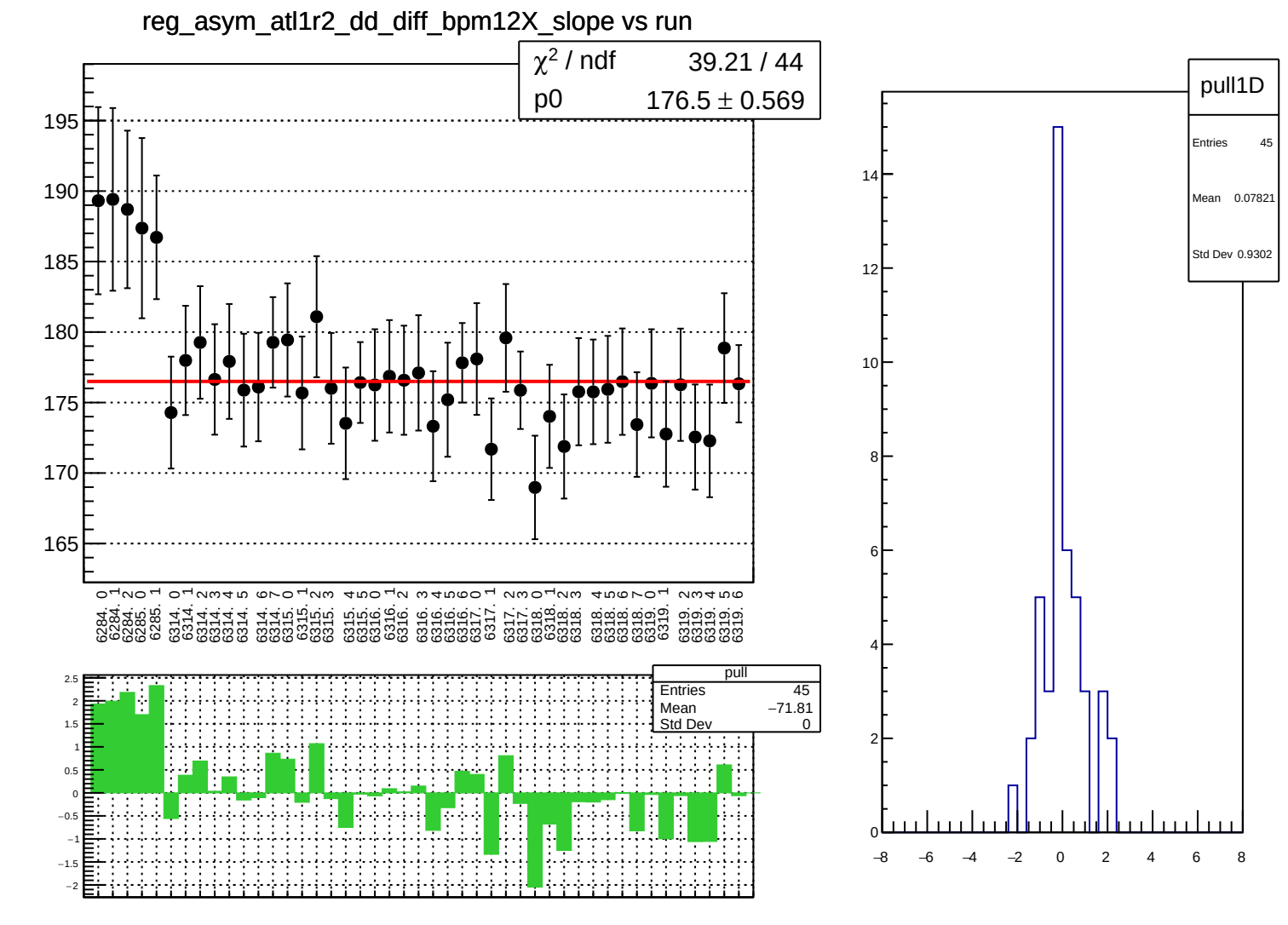

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.97 / 44
p0 46.97 ± 5.576
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −50.17
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04159
Std Dev 0.5352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

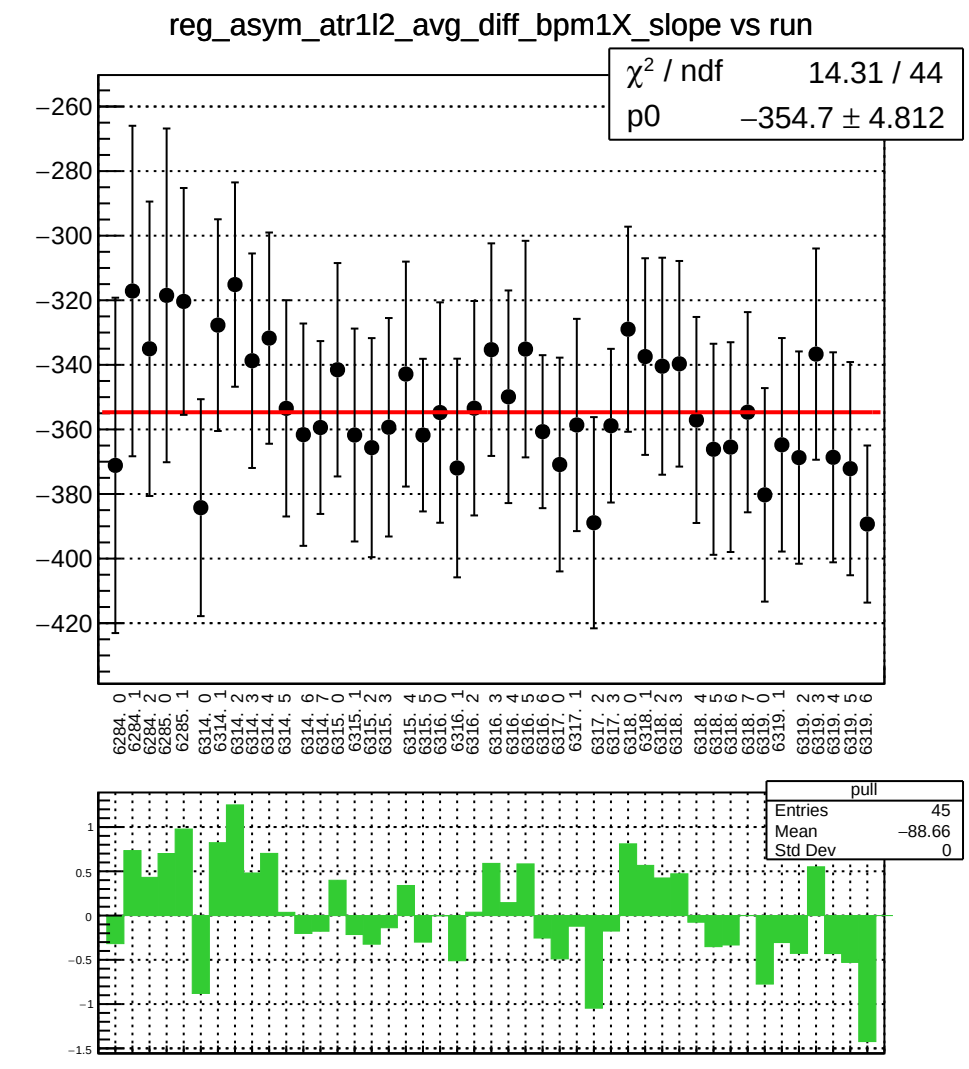

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.36 / 44
p0 −423.6 ± 7.858
−300
−350
−400
−450
−500
−550
−600
−650
−700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −92.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

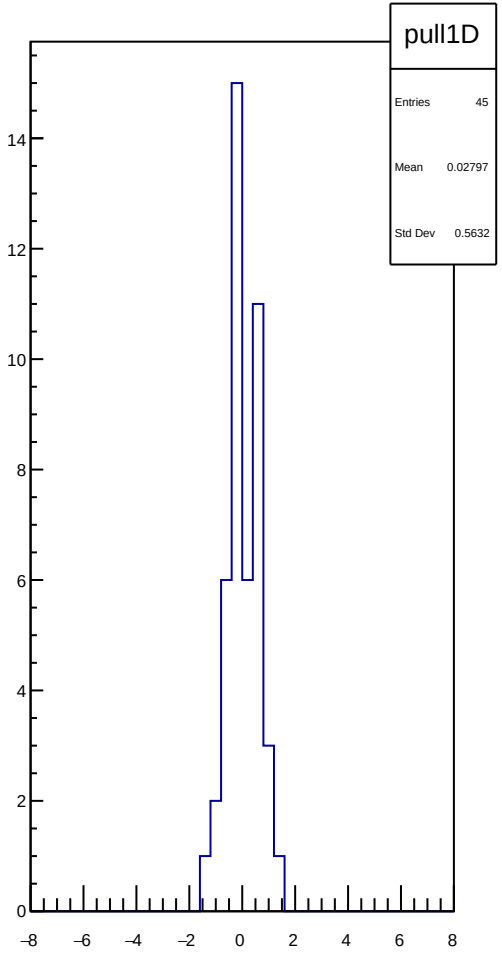

pull1D
Entries 45
Mean −0.05572
Std Dev 0.7633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

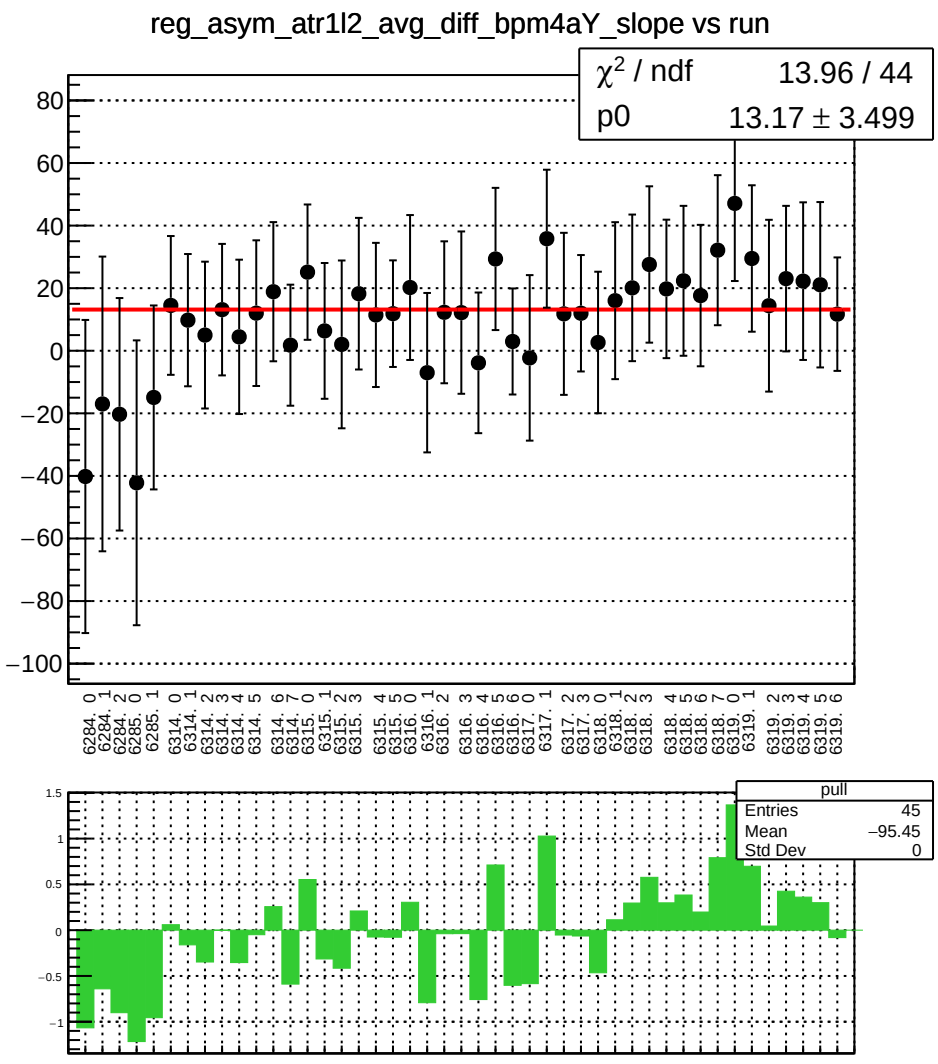

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.14 / 44
p0 −179.1± 6.876
pull
Entries 45
Mean −53.82
Std Dev 0

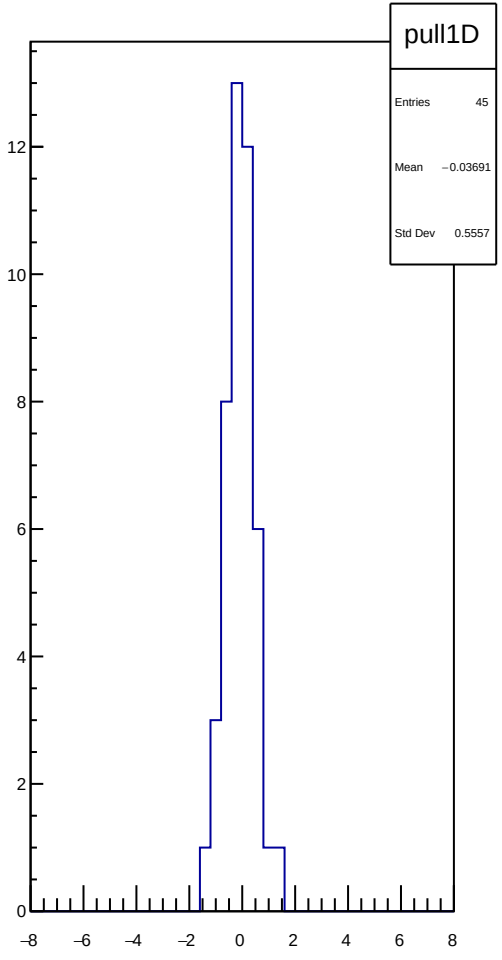

pull1D
Entries 45
Mean 0.06061
Std Dev 0.6988

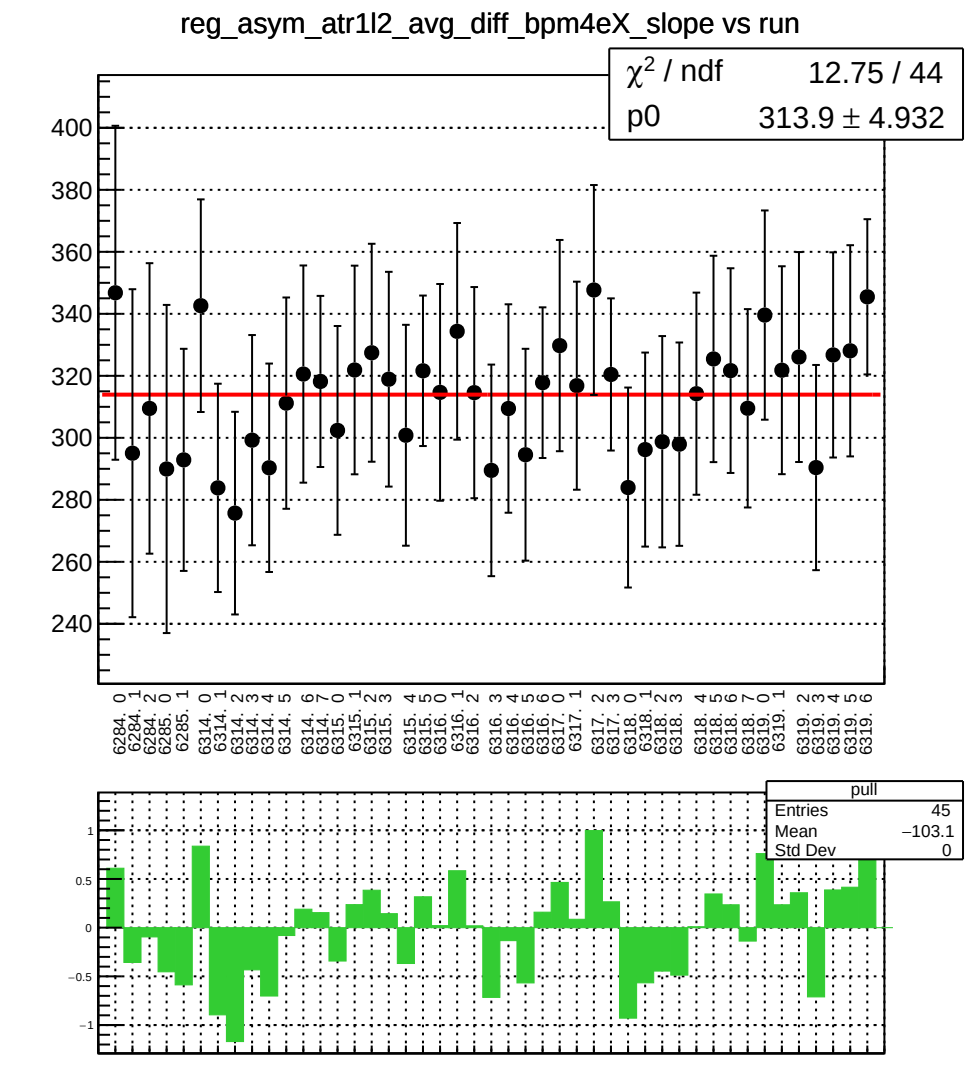

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.21 / 44
p0 176.5 ± 0.569
pull
Entries 45
Mean −71.81
Std Dev 0
pull1D
Entries 45
Mean 0.07821
Std Dev 0.9302

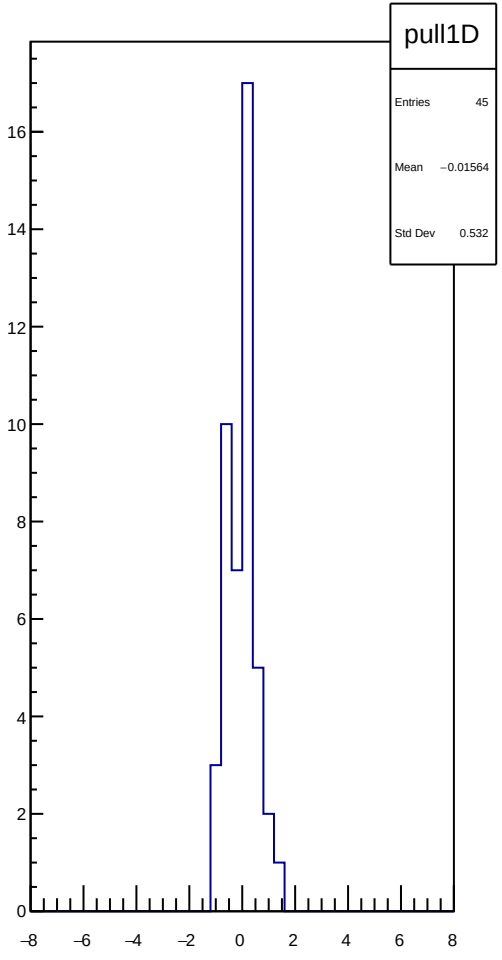

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.31 / 44
p0 −354.7 ± 4.812
−260
−280
−300
−320
−340
−360
−380
−400
−420
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −88.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

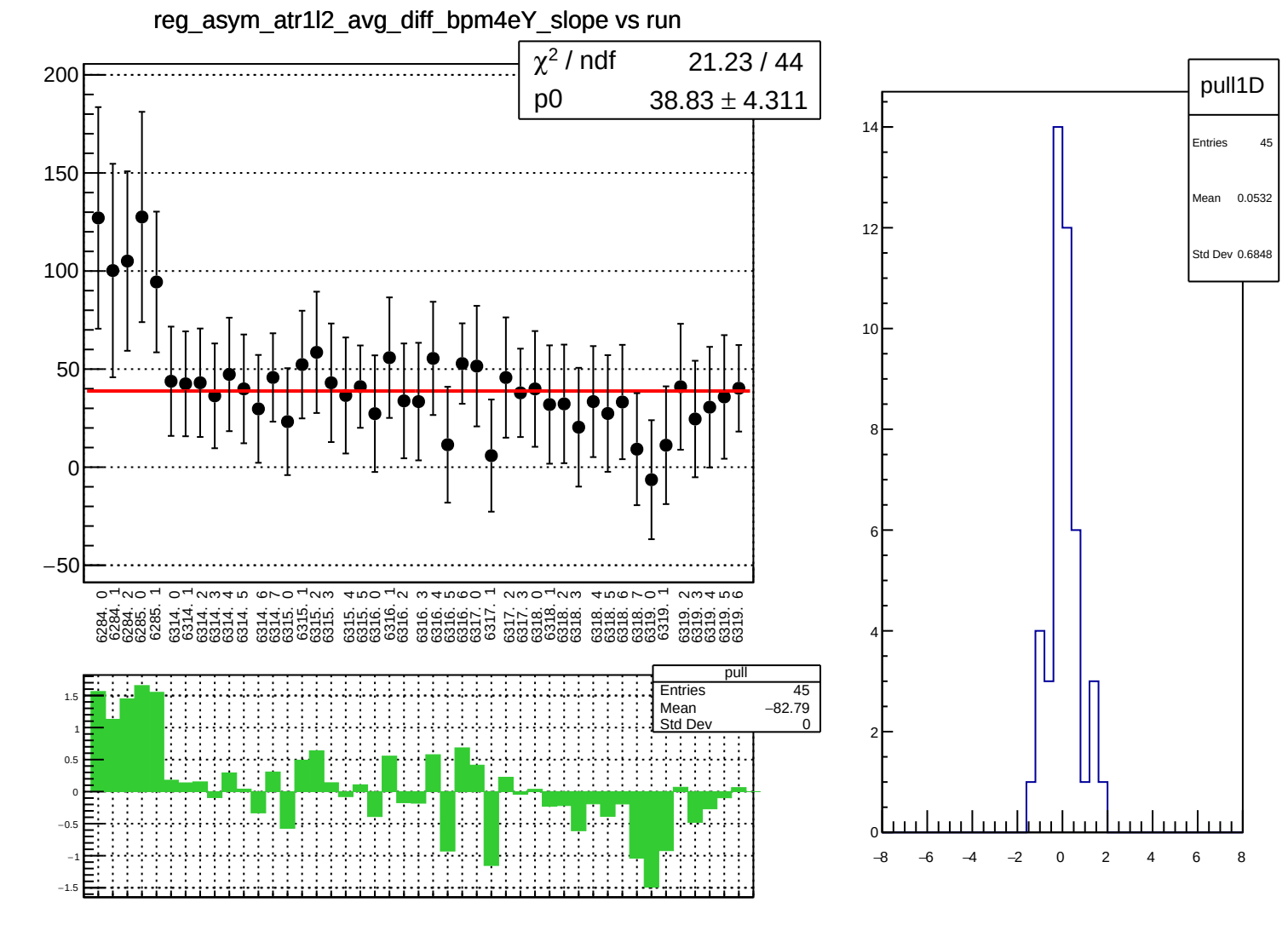

pull1D
Entries 45
Mean 0.02797
Std Dev 0.5632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

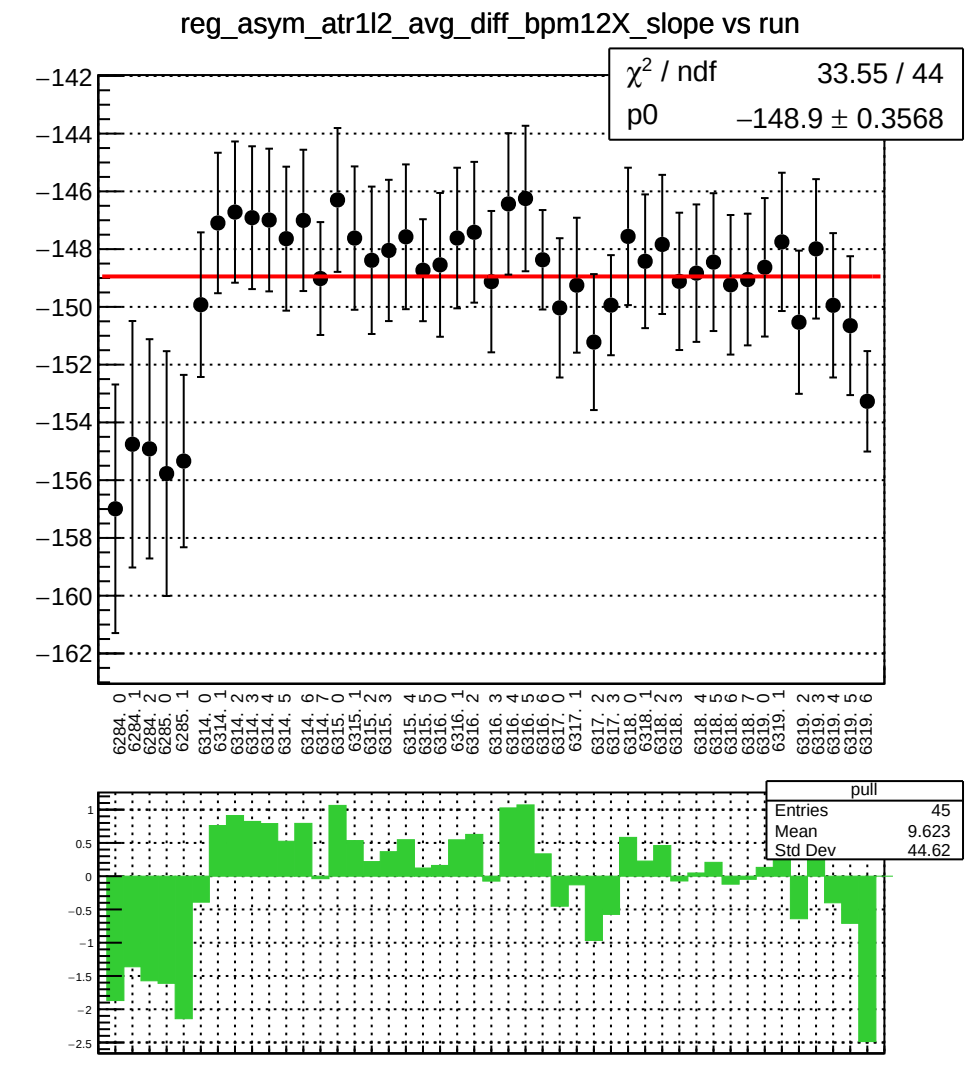

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.96 / 44
p0 13.17 ± 3.499
pull
Entries 45
Mean −95.45
Std Dev 0

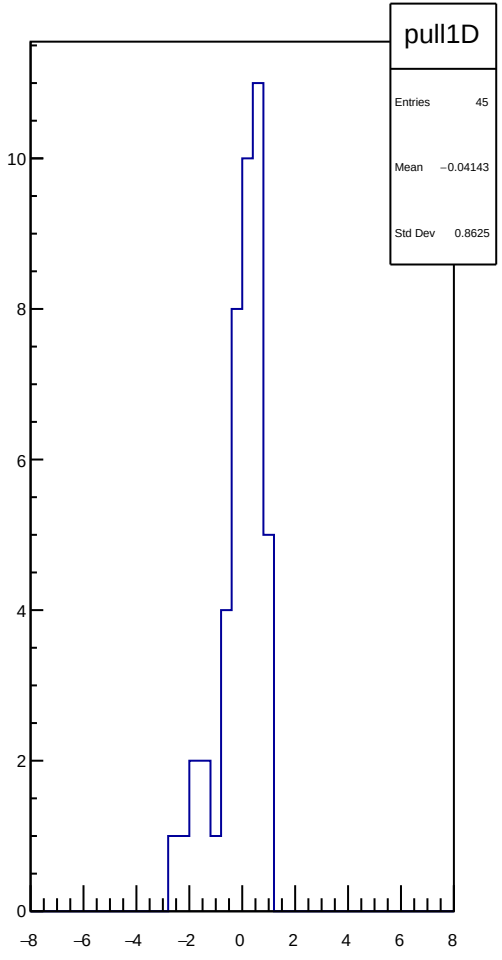

pull1D
Entries 45
Mean −0.03691
Std Dev 0.5557

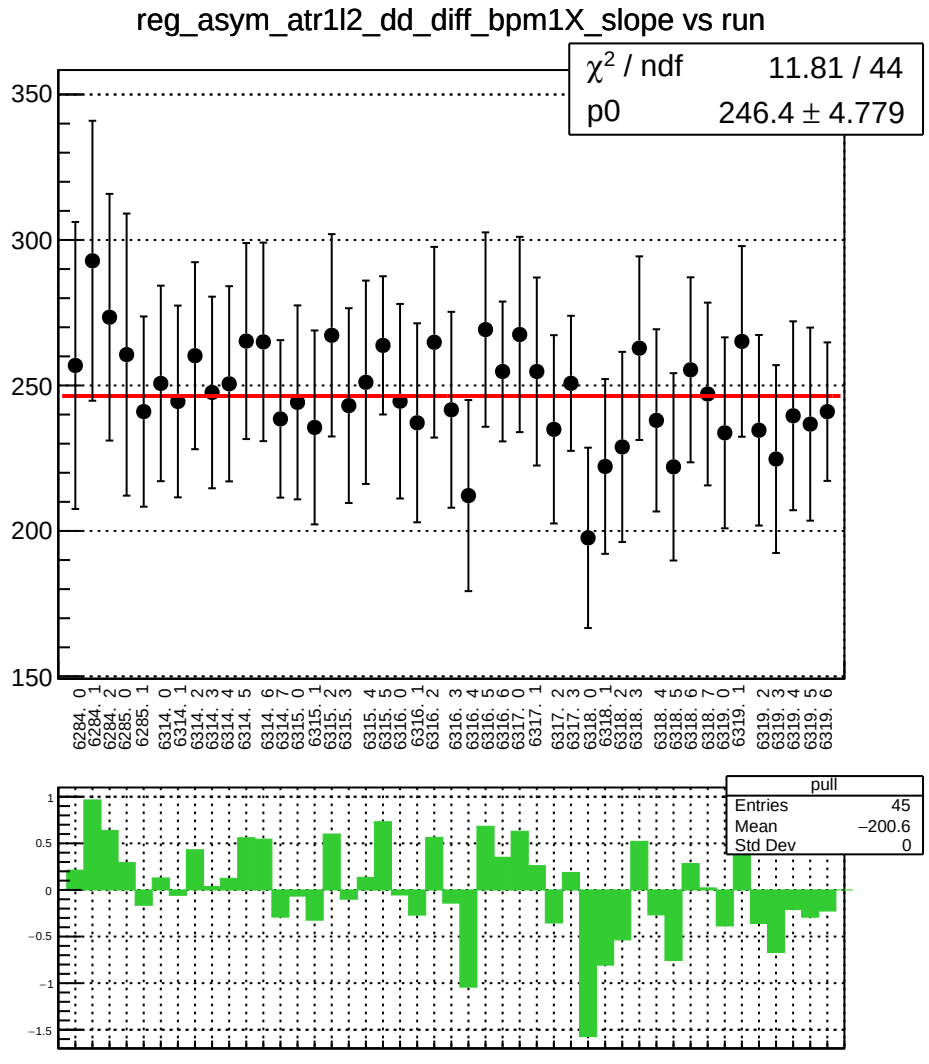

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.75 / 44
p0 313.9 ± 4.932
400
380
360
340
320
300
280
260
240
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −103.1
Std Dev 0
1
0.5
0
−0.5
−1

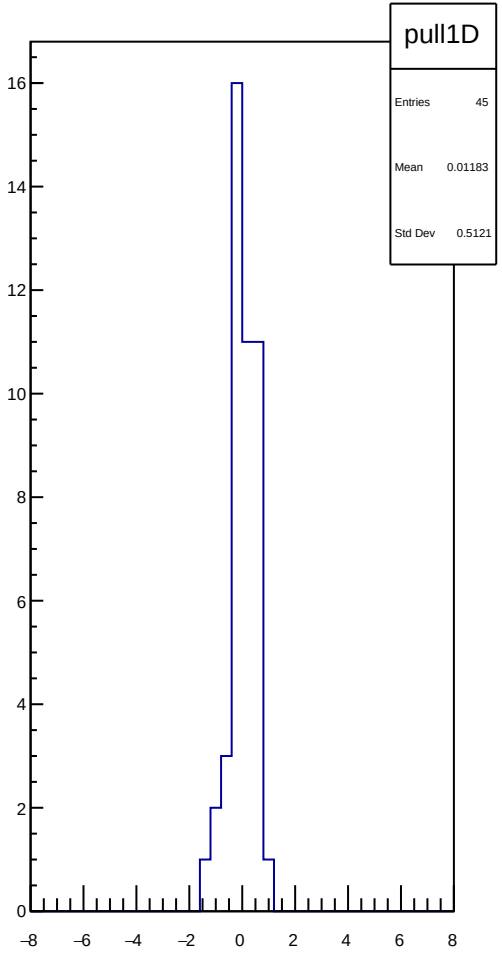

pull1D
Entries 45
Mean −0.01564
Std Dev 0.532
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

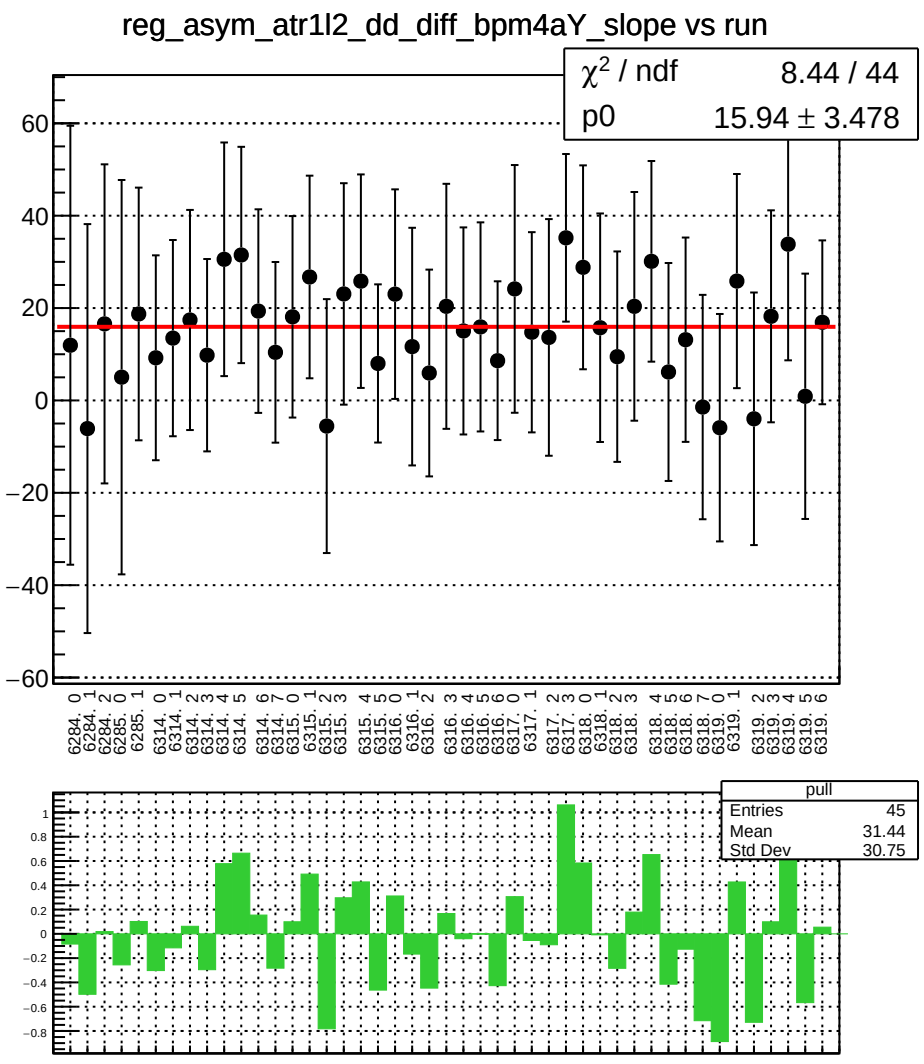

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.23 / 44
p0 38.83 ± 4.311
200
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −82.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0532
Std Dev 0.6848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

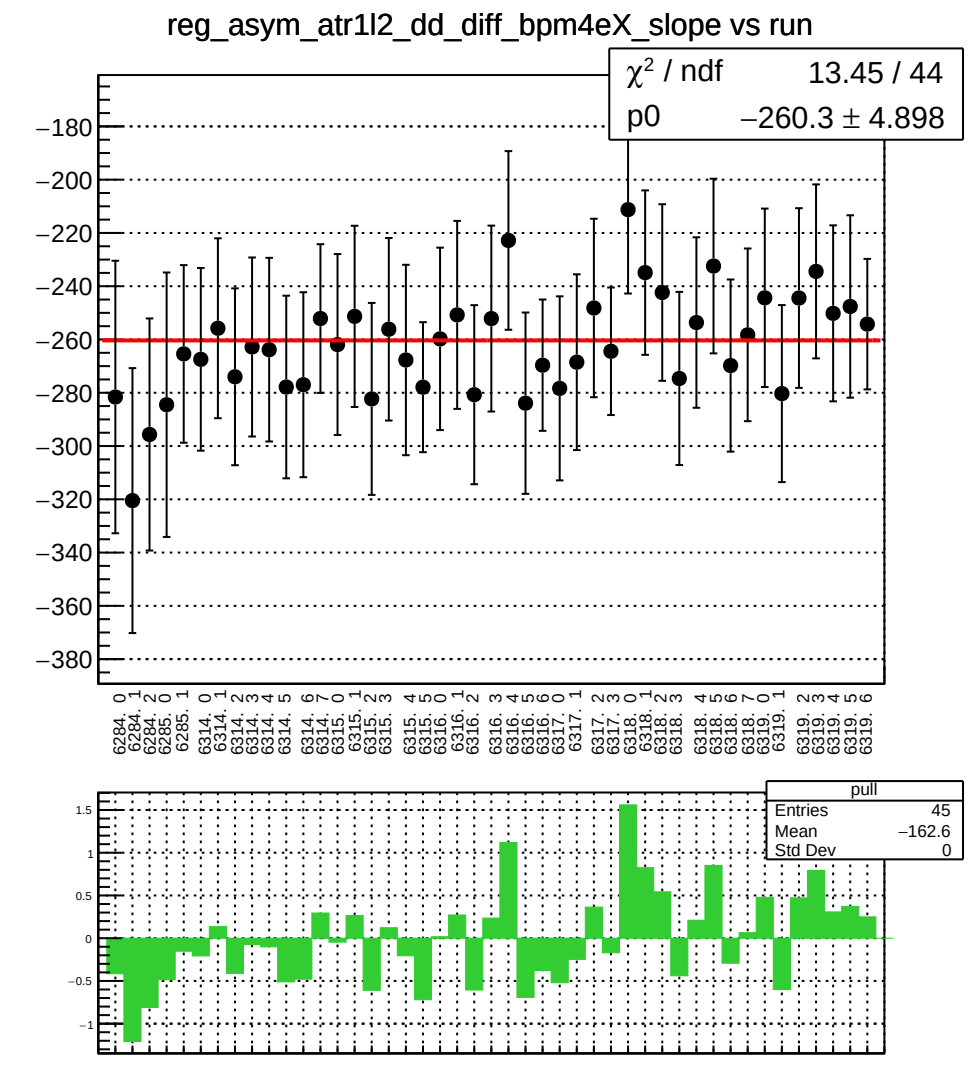

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 33.55 / 44
p0 −148.9 ± 0.3568
pull
Entries 45
Mean 9.623
Std Dev 44.62

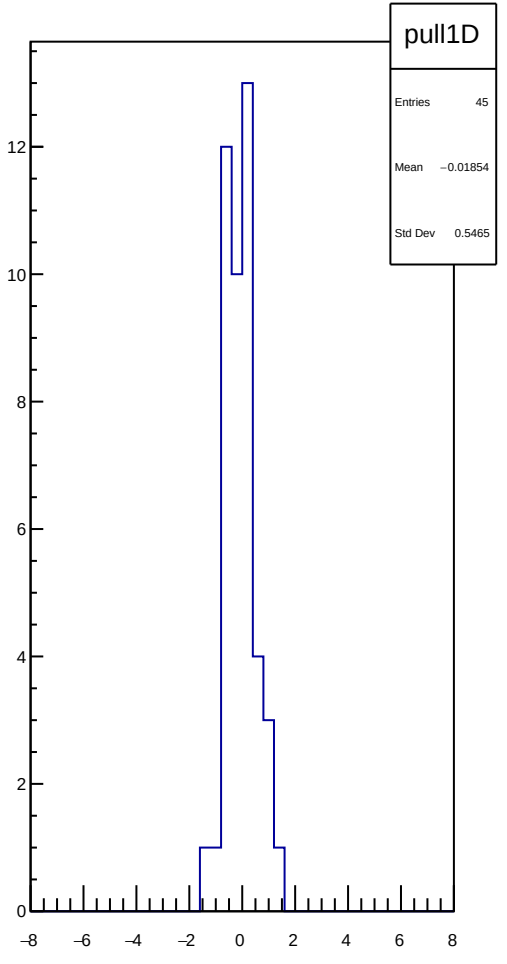

pull1D
Entries 45
Mean −0.04143
Std Dev 0.8625

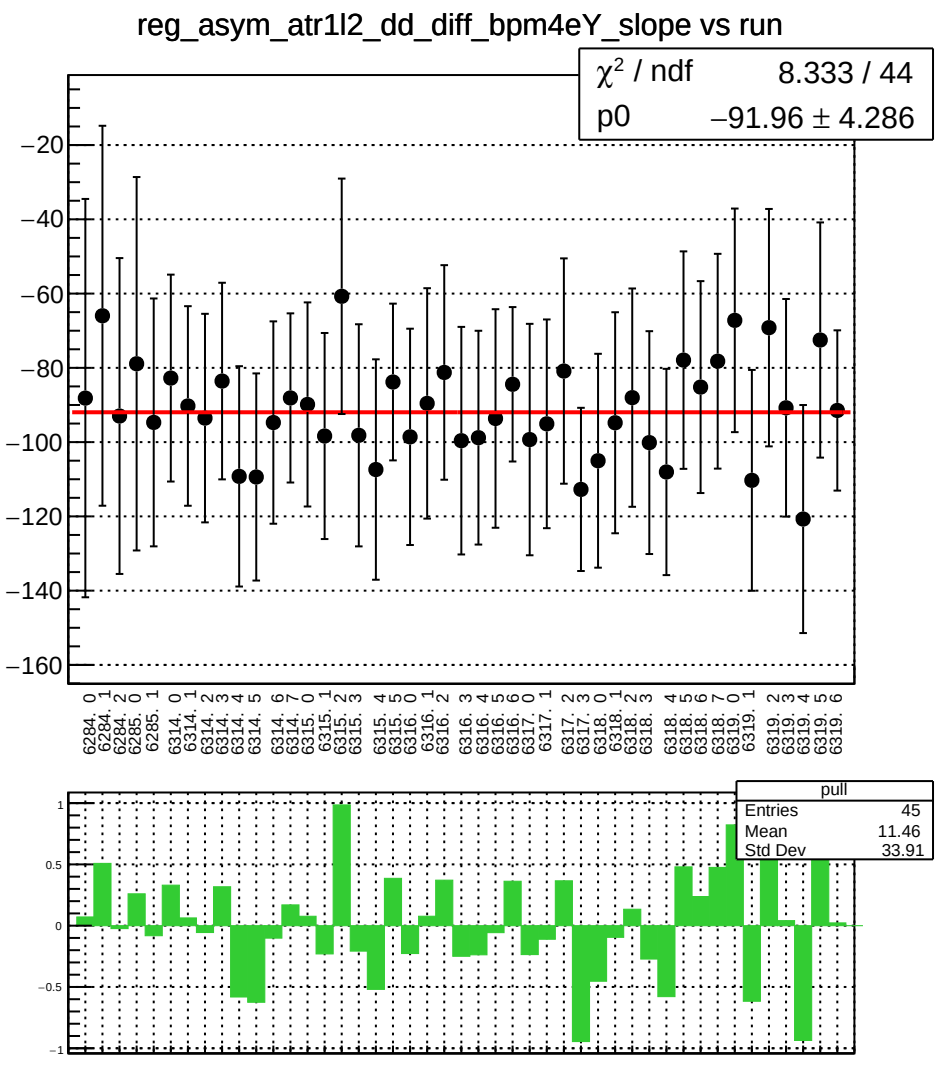

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.81 / 44
p0 246.4 ± 4.779
350
300
250
200
150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −200.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

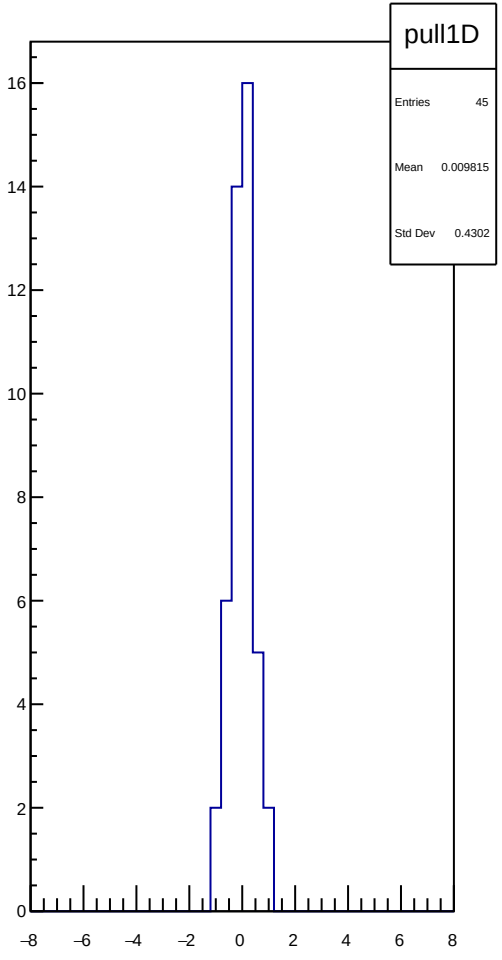

pull1D
Entries 45
Mean 0.01183
Std Dev 0.5121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

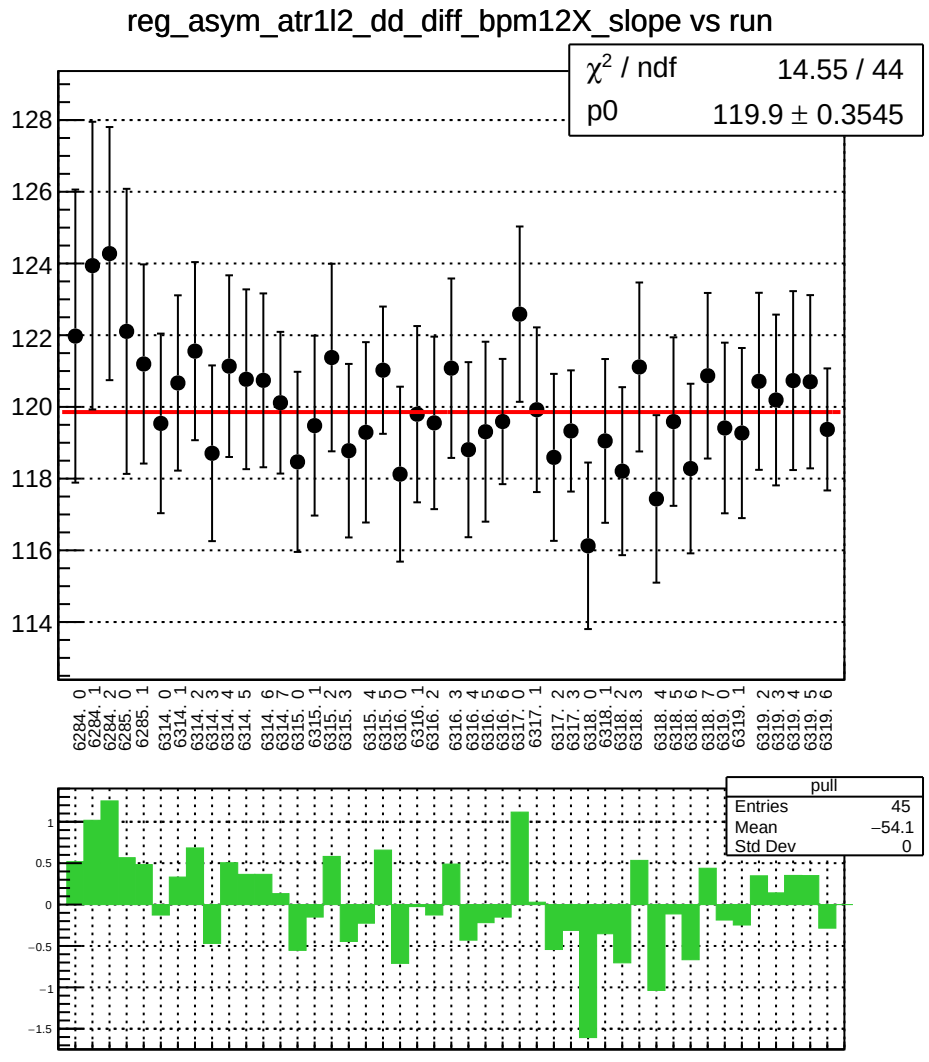

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.44 / 44
p0 15.94 ± 3.478
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 31.44
Std Dev 30.75
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.01296
Std Dev 0.4329
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

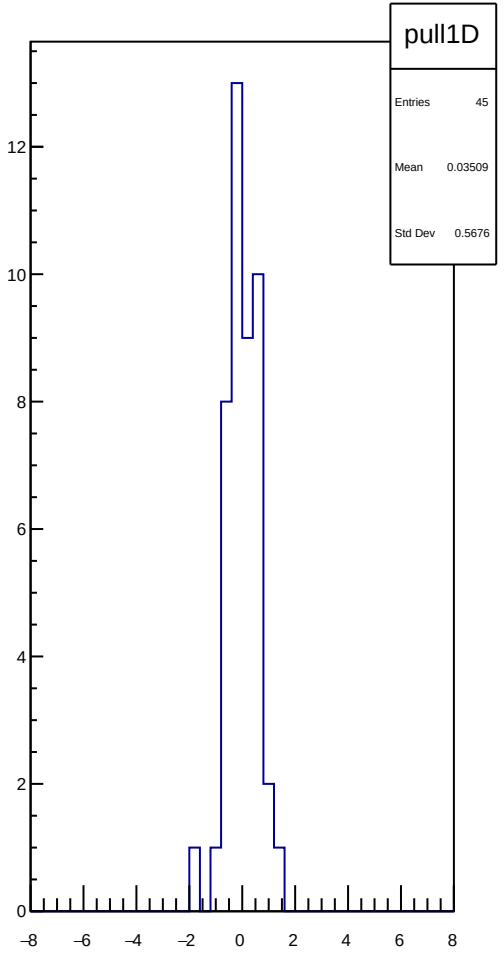

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.45 / 44
p0 −260.3 ± 4.898
−180
−200
−220
−240
−260
−280
−300
−320
−340
−360
−380
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −162.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

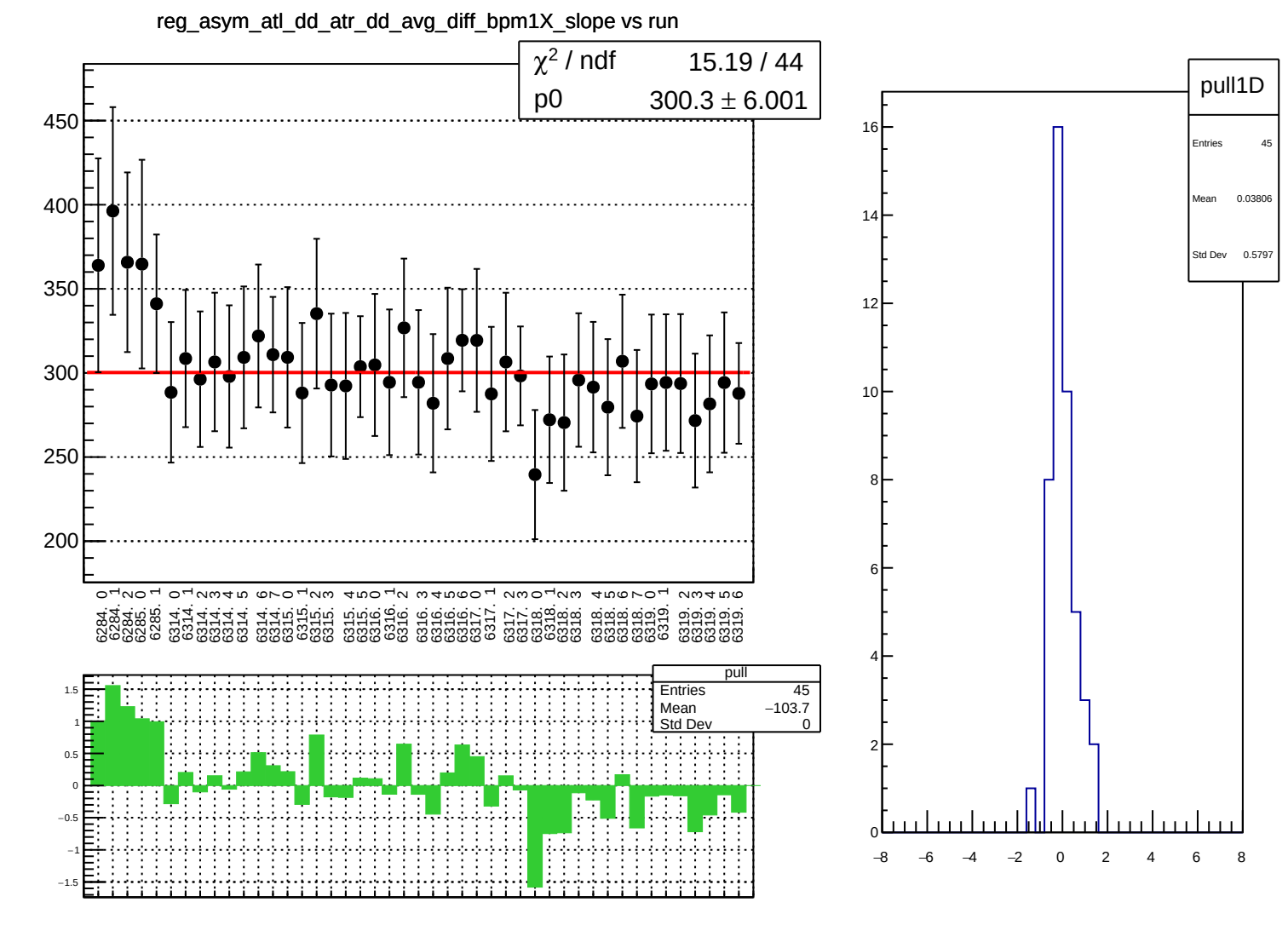

pull1D
Entries 45
Mean −0.01854
Std Dev 0.5465
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

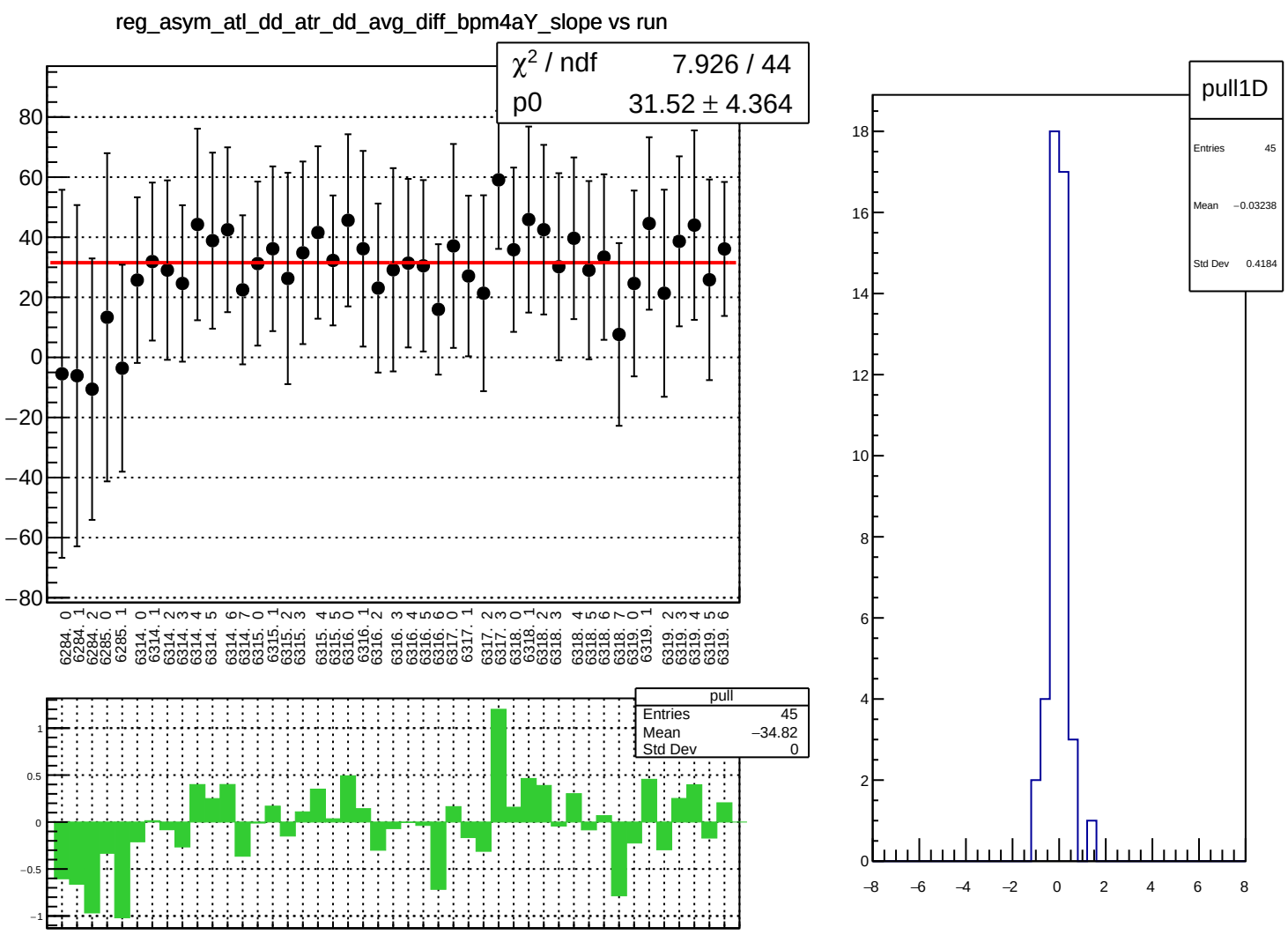

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.333 / 44
p0 −91.96 ± 4.286
pull
Entries 45
Mean 11.46
Std Dev 33.91

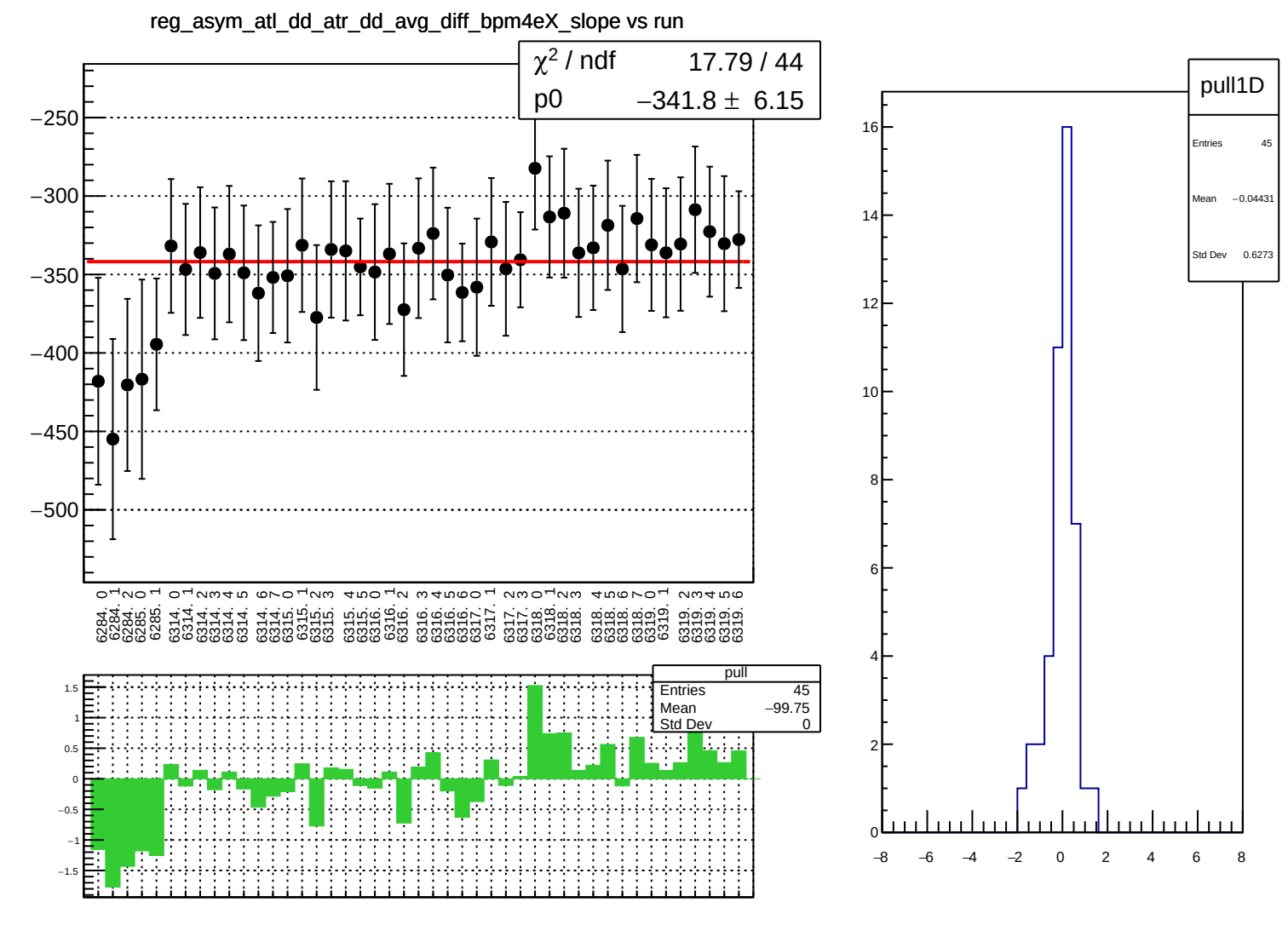

pull1D
Entries 45
Mean 0.009815
Std Dev 0.4302

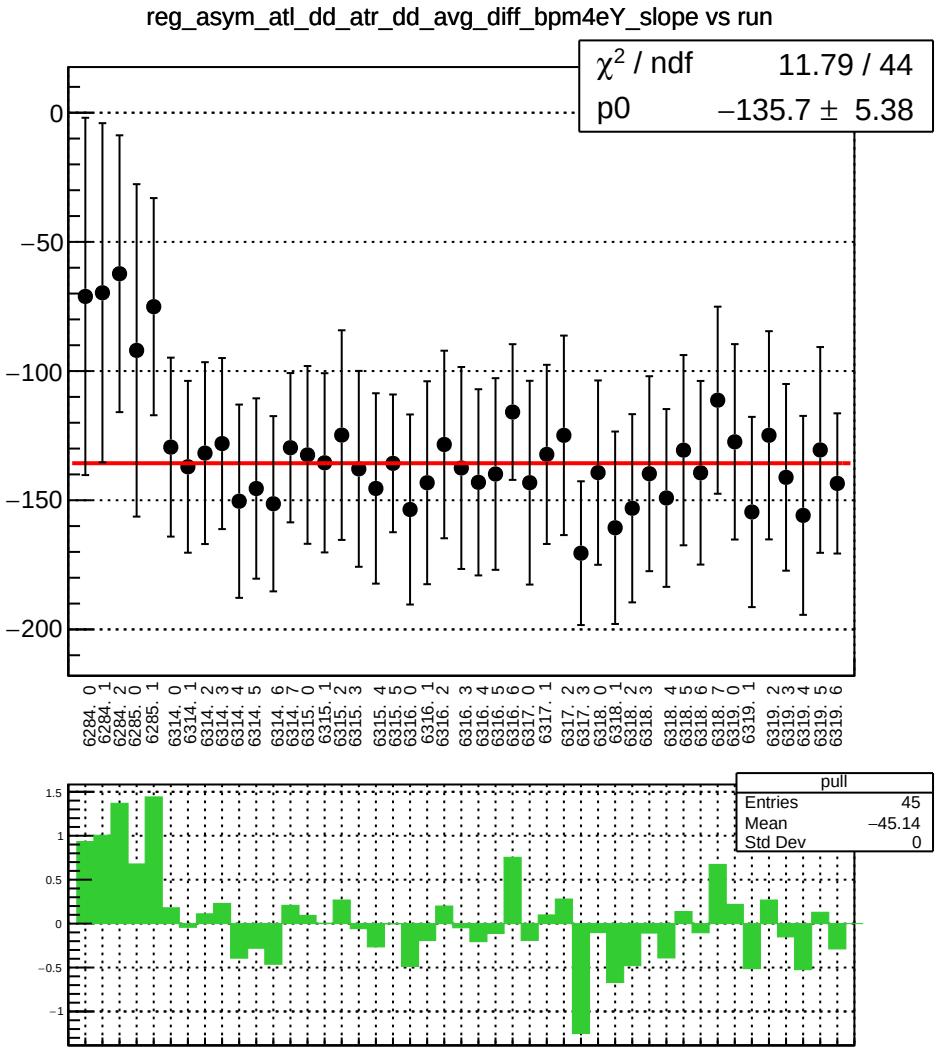

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.55 / 44
p0 119.9 ± 0.3545
pull
Entries 45
Mean −54.1
Std Dev 0

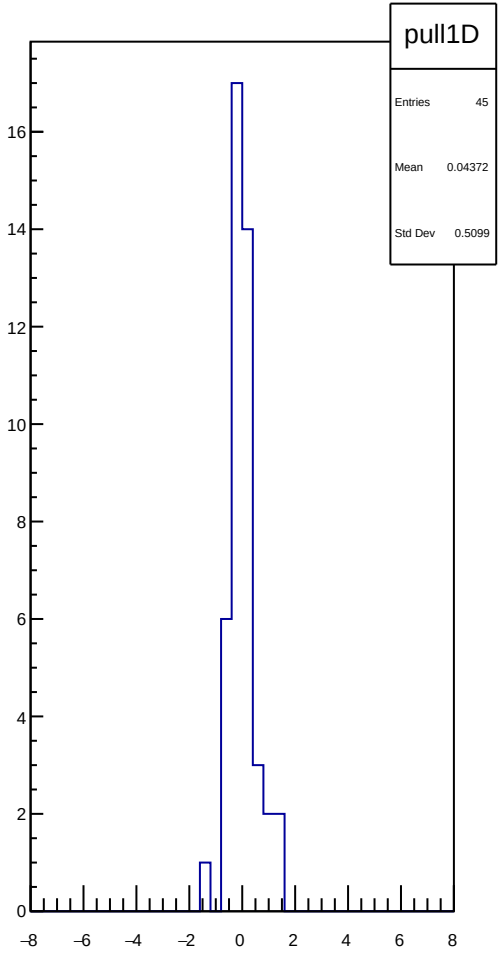

pull1D
Entries 45
Mean 0.03509
Std Dev 0.5676

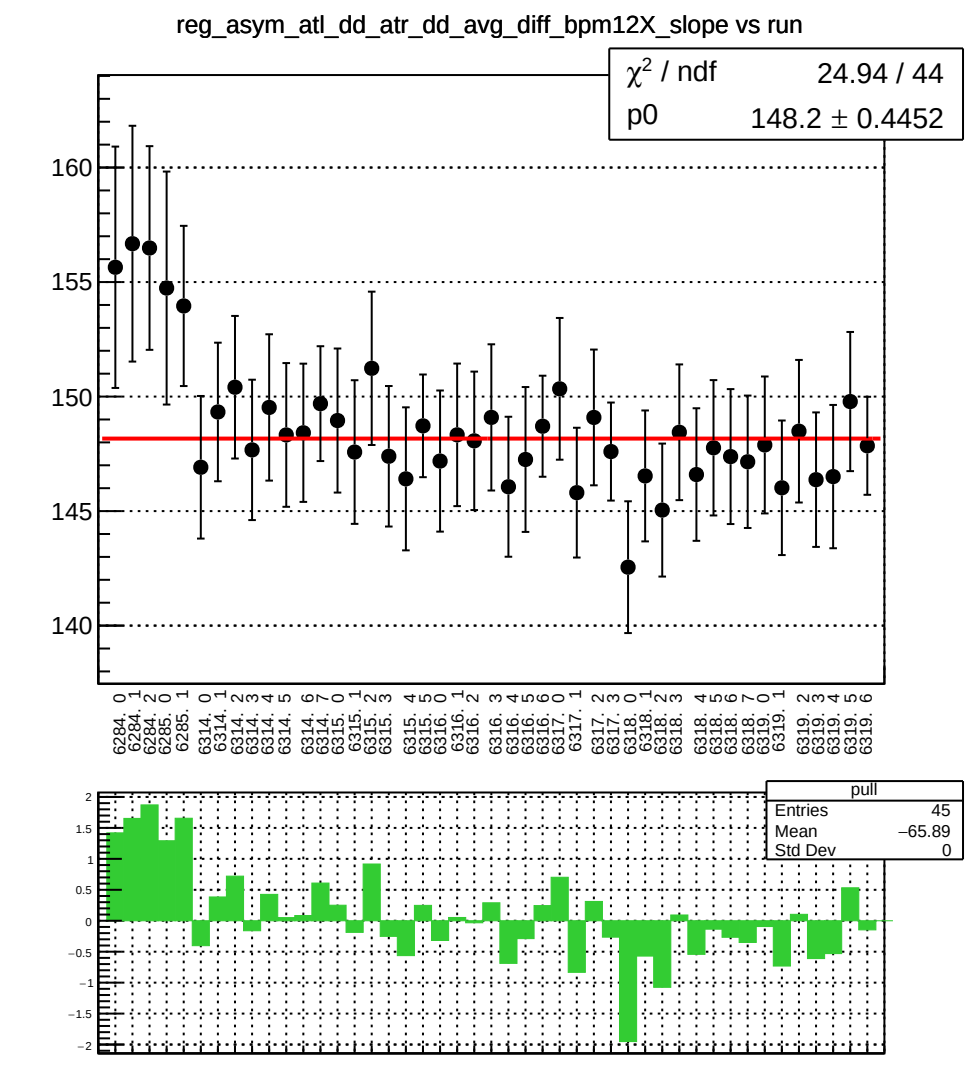

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 44
p0 300.3 ± 6.001
pull
Entries 45
Mean −103.7
Std Dev 0
pull1D
Entries 45
Mean 0.03806
Std Dev 0.5797

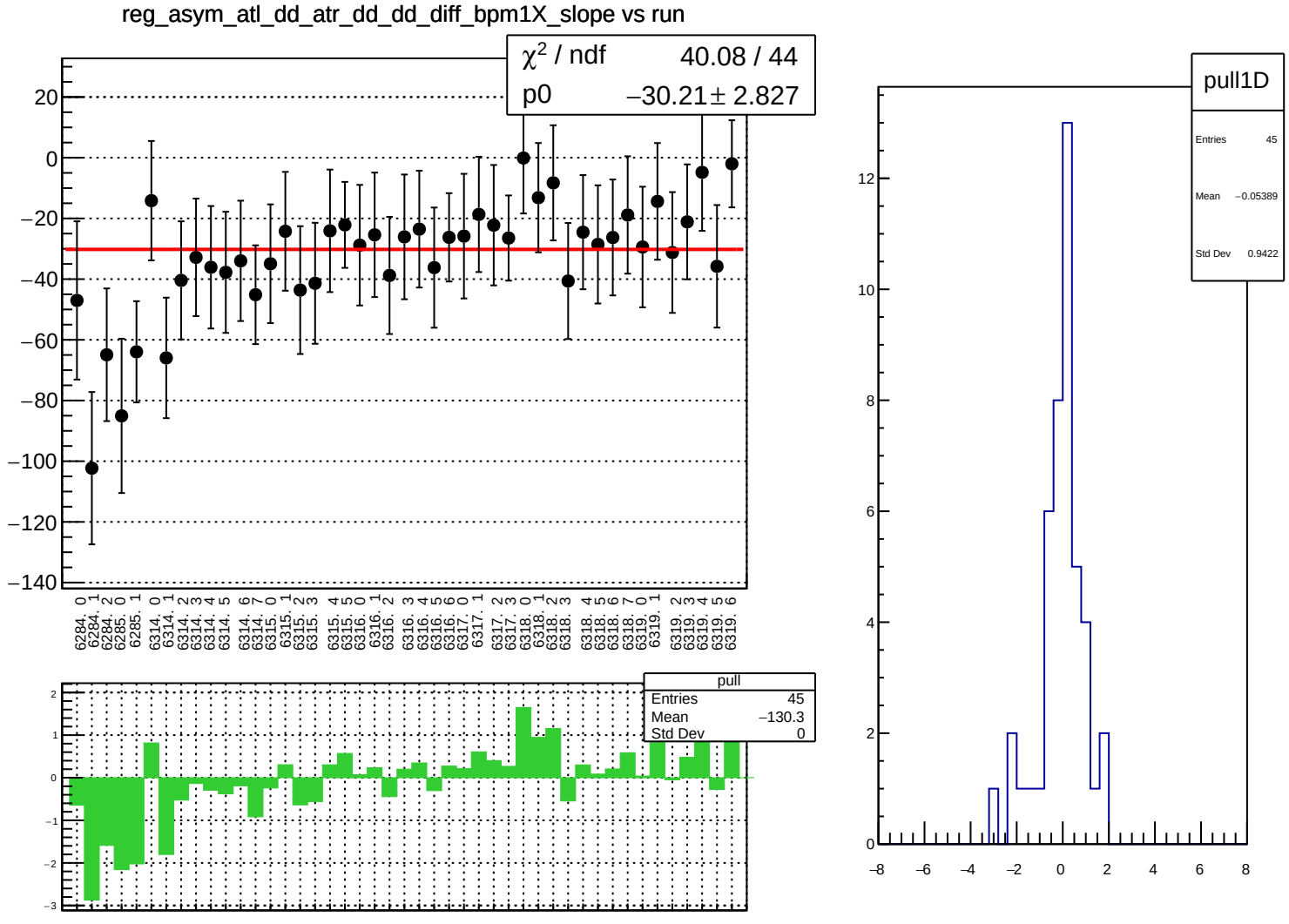

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.926 / 44
p0 31.52 ± 4.364
pull
Entries 45
Mean −34.82
Std Dev 0
pull1D
Entries 45
Mean −0.03238
Std Dev 0.4184

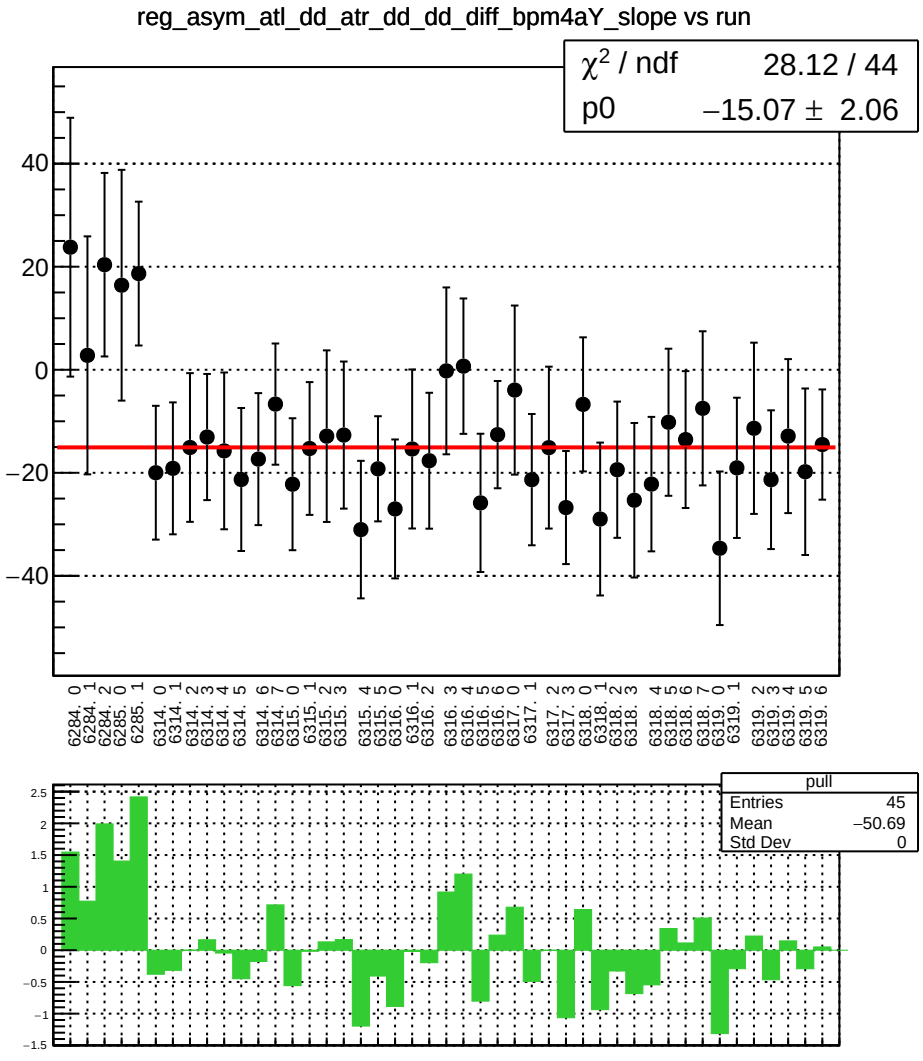

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.79 / 44
p0 −341.8 ± 6.15
−250
−300
−350
−400
−450
−500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −99.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04431
Std Dev 0.6273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

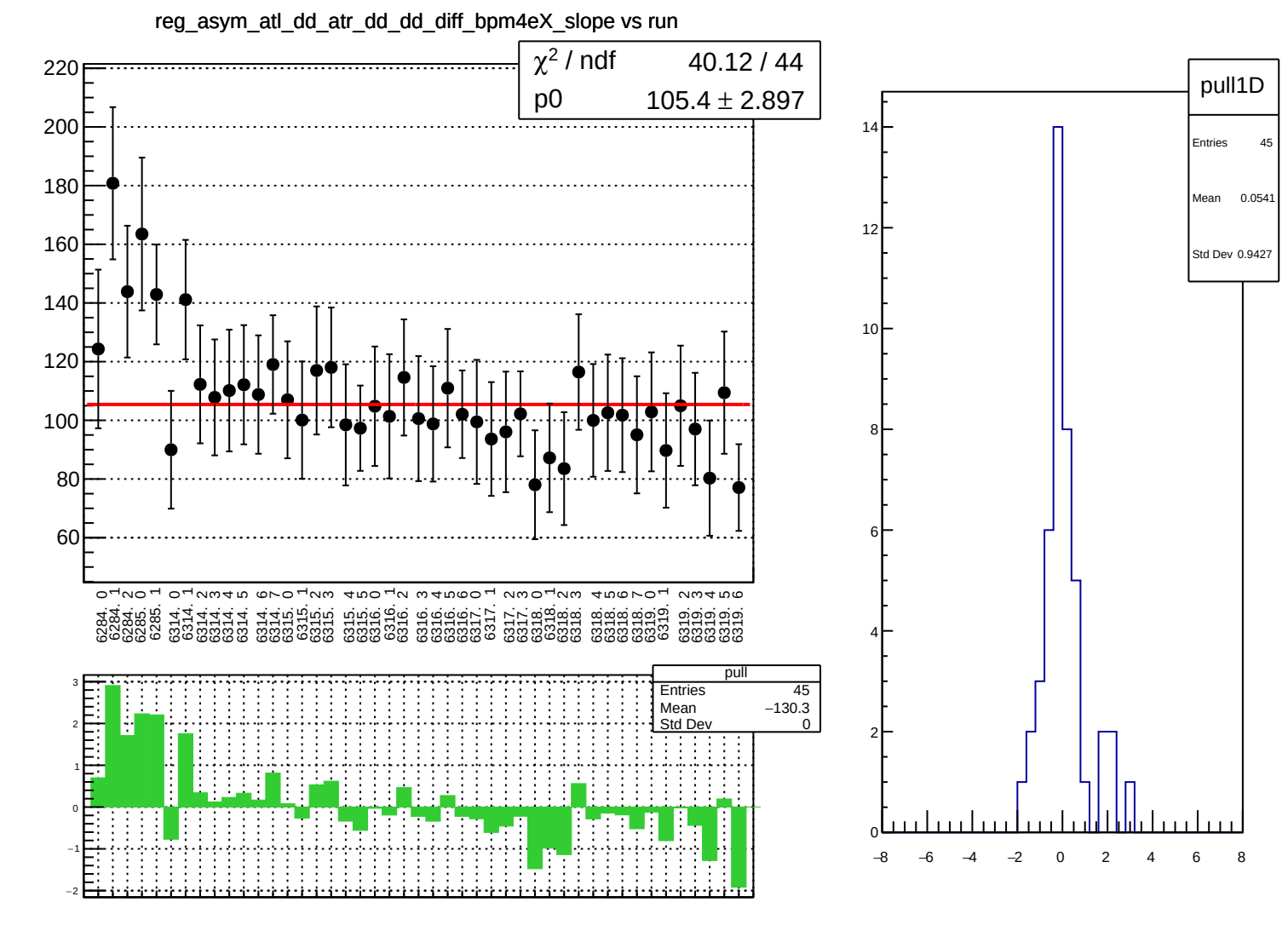

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.79 / 44
p0 −135.7 ± 5.38
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −45.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1

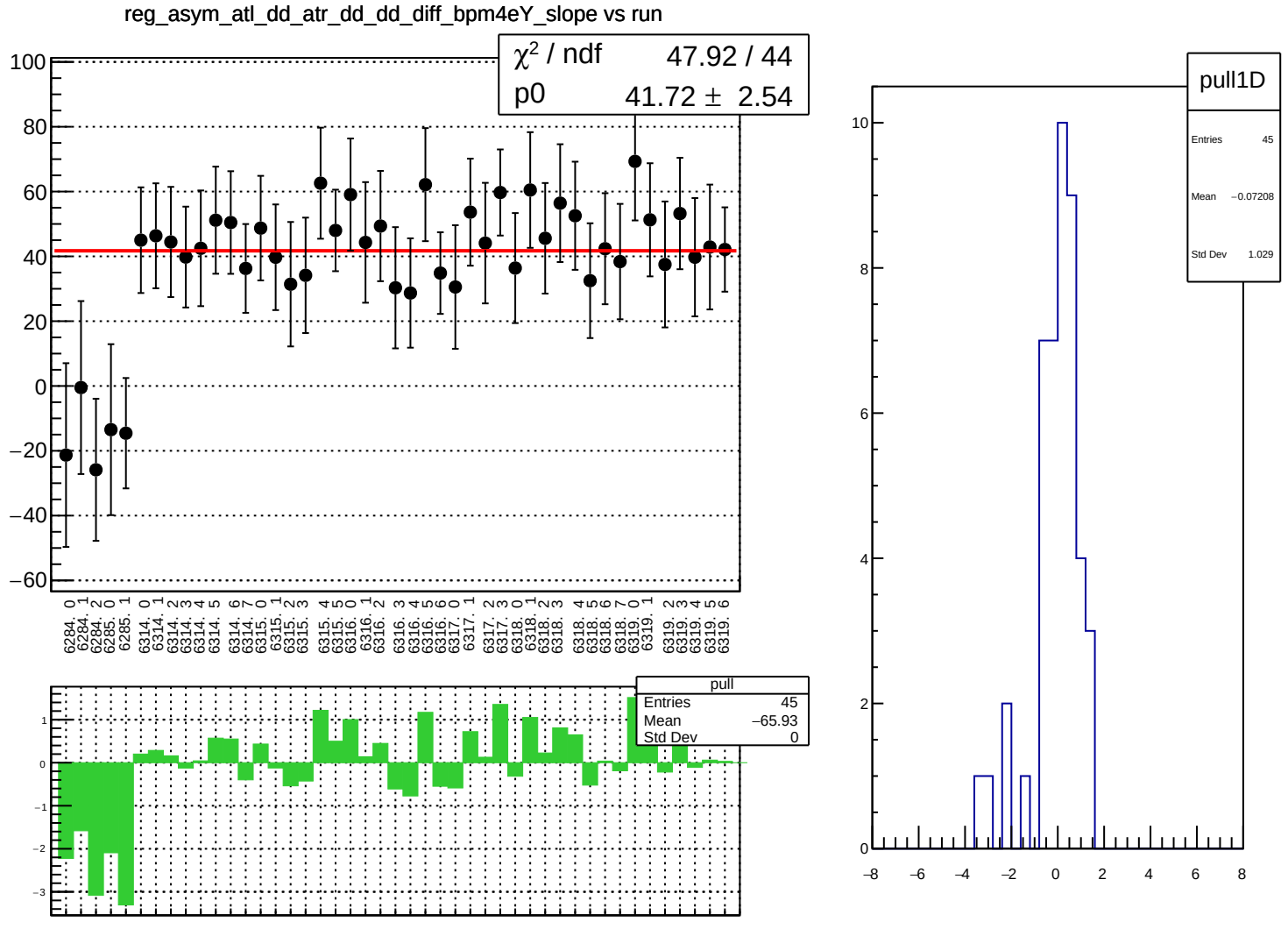

pull1D
Entries 45
Mean 0.04372
Std Dev 0.5099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

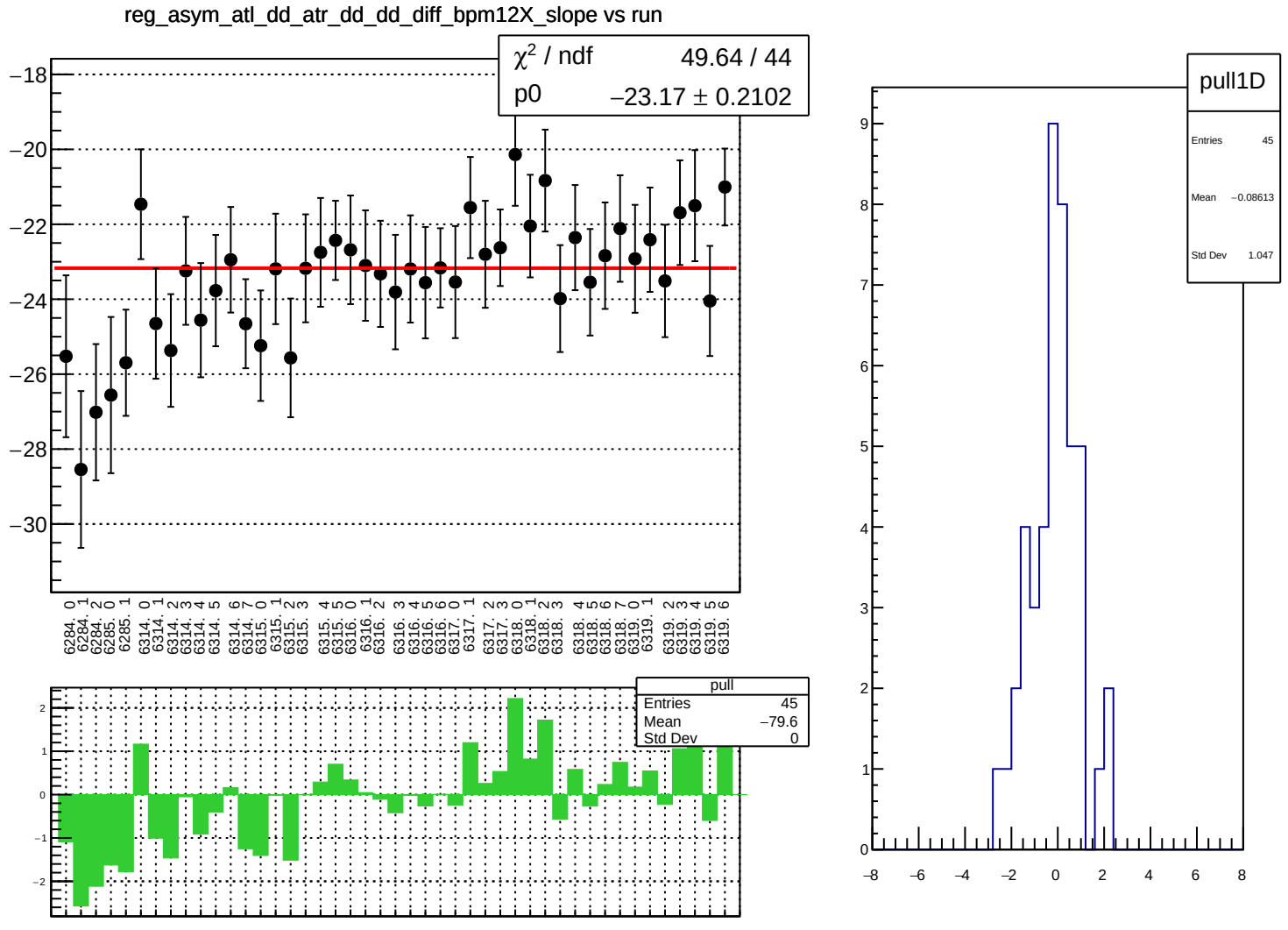

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 24.94 / 44
p0 148.2 ± 0.4452
160
155
150
145
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −65.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.06477
Std Dev 0.7416
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

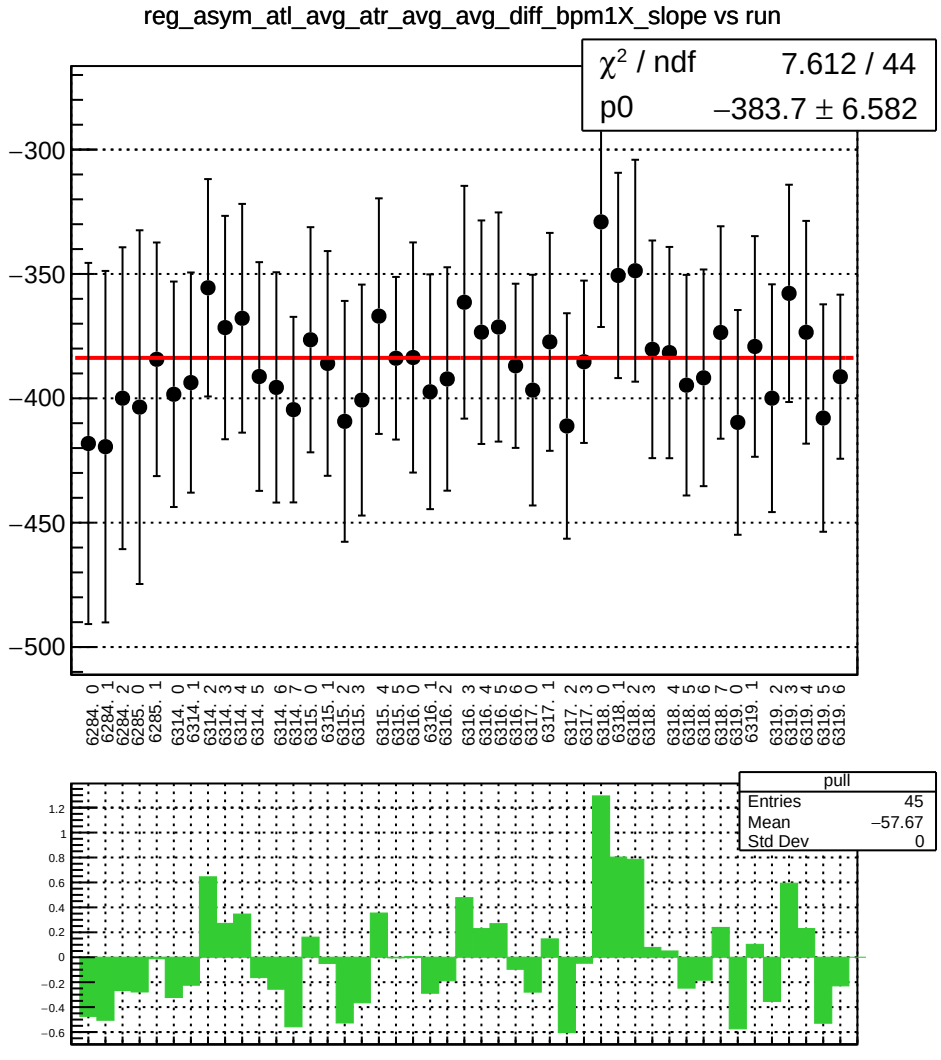

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 40.08 / 44
p0 −30.21± 2.827
pull
Entries 45
Mean −130.3
Std Dev 0
pull1D
Entries 45
Mean −0.05389
Std Dev 0.9422

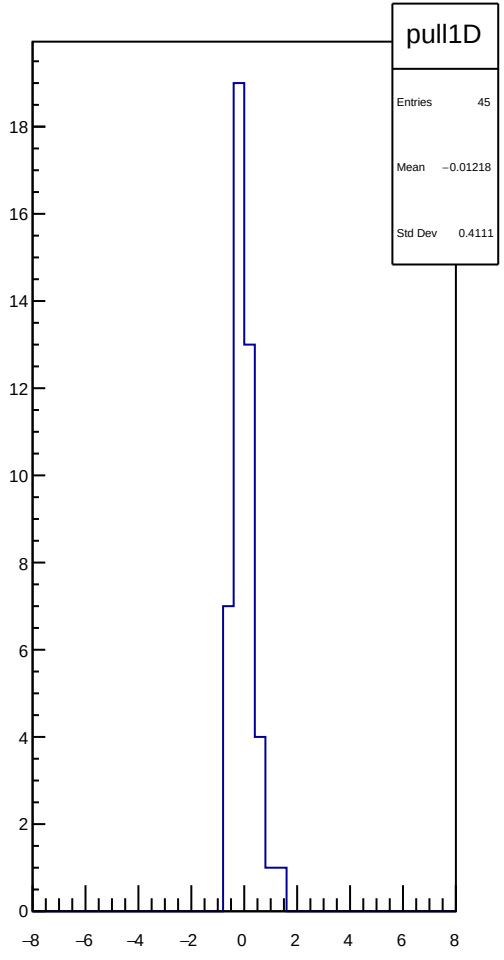

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.12 / 44
p0 −15.07 ± 2.06
pull
Entries 45
Mean −50.69
Std Dev 0
pull1D
Entries 45
Mean 0.05566
Std Dev 0.7885

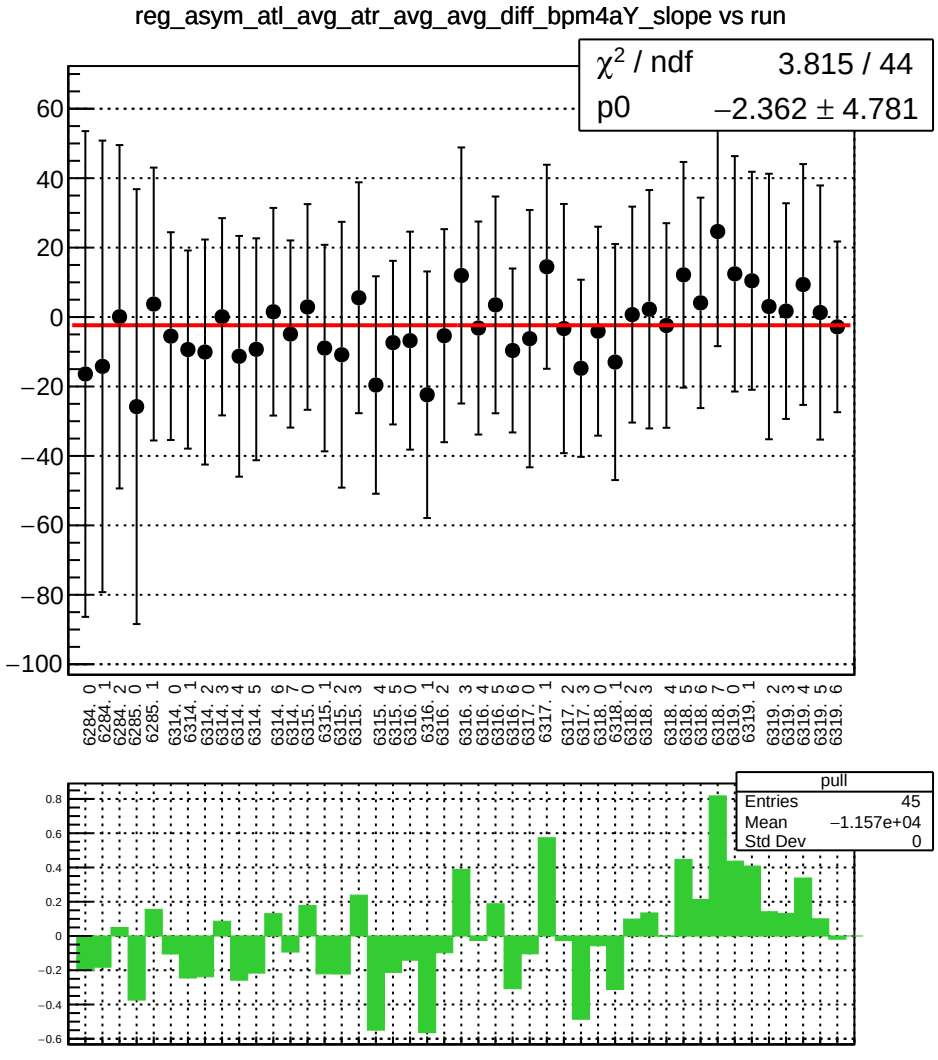

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.12 / 44
p0 105.4 ± 2.897
pull
Entries 45
Mean −130.3
Std Dev 0
pull1D
Entries 45
Mean 0.0541
Std Dev 0.9427

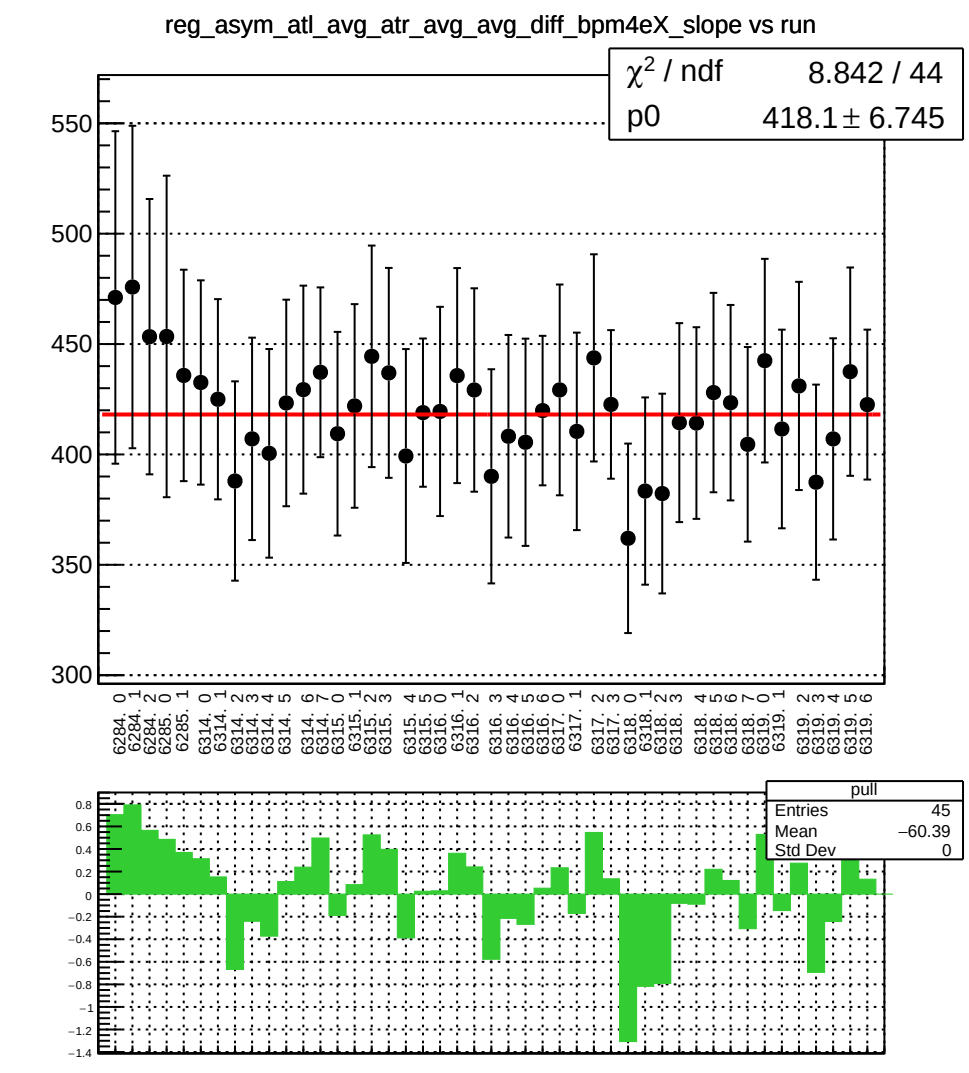

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.92 / 44
p0 41.72 ± 2.54
pull
Entries 45
Mean −65.93
Std Dev 0
pull1D
Entries 45
Mean −0.07208
Std Dev 1.029

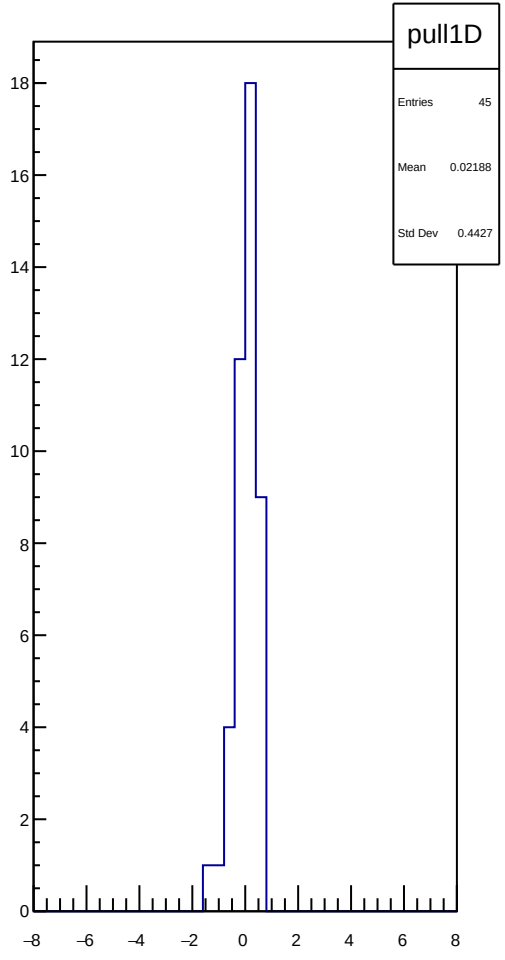

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 49.64 / 44
p0 −23.17 ± 0.2102
pull
Entries 45
Mean −79.6
Std Dev 0
pull1D
Entries 45
Mean −0.08613
Std Dev 1.047

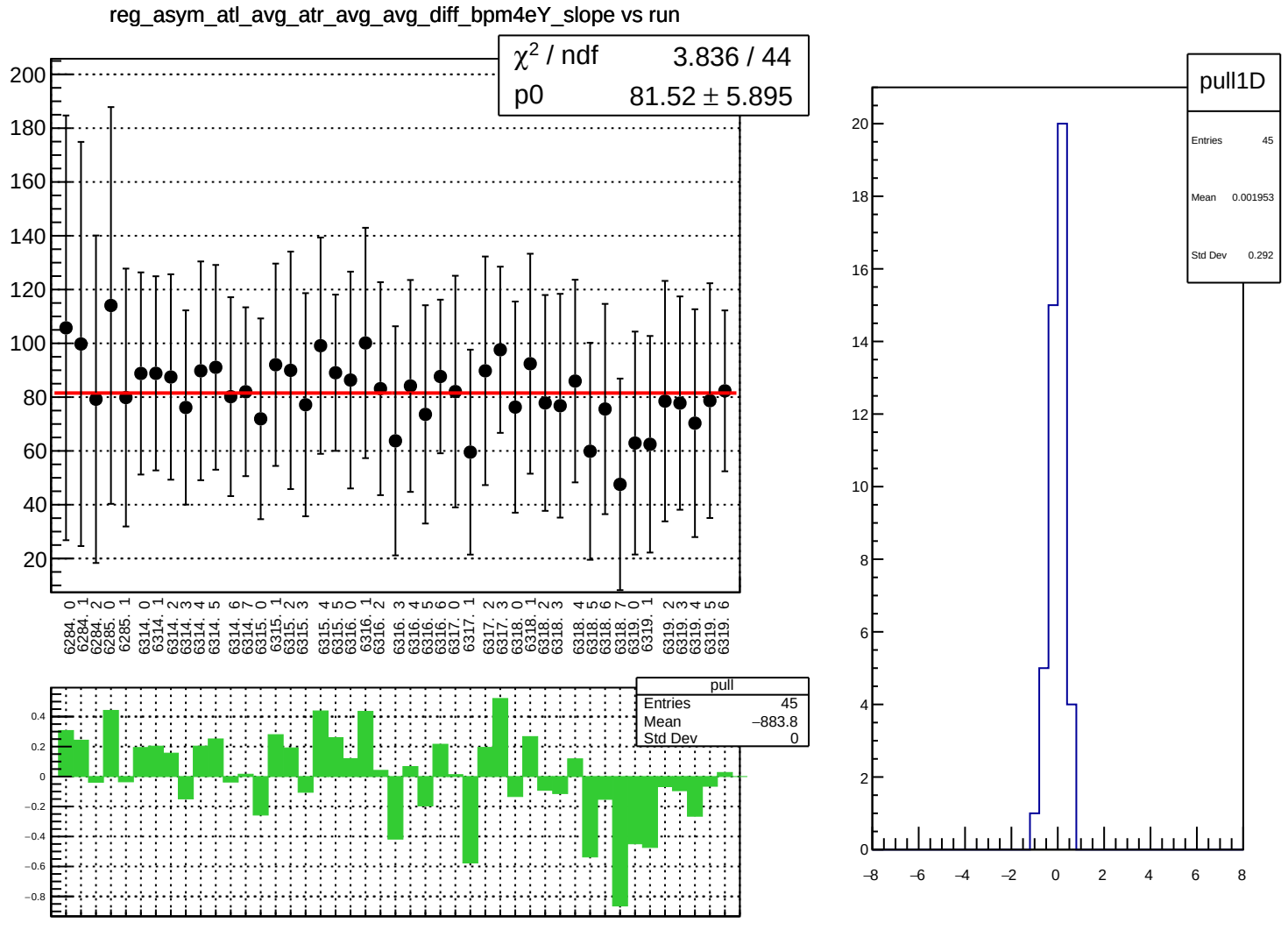

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.612 / 44
p0 −383.7 ± 6.582
−300
−350
−400
−450
−500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −57.67
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

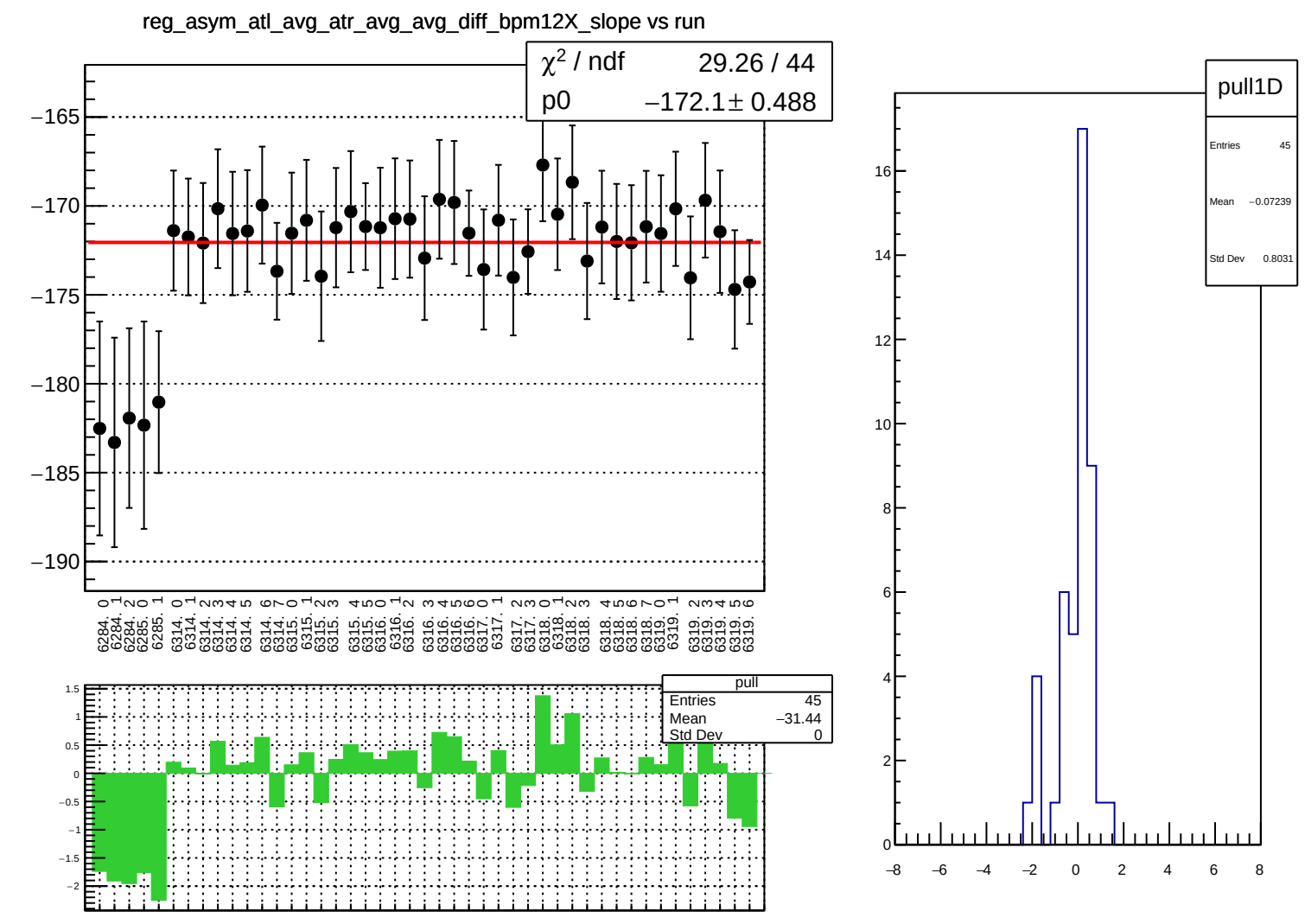

pull1D
Entries 45
Mean −0.01218
Std Dev 0.4111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

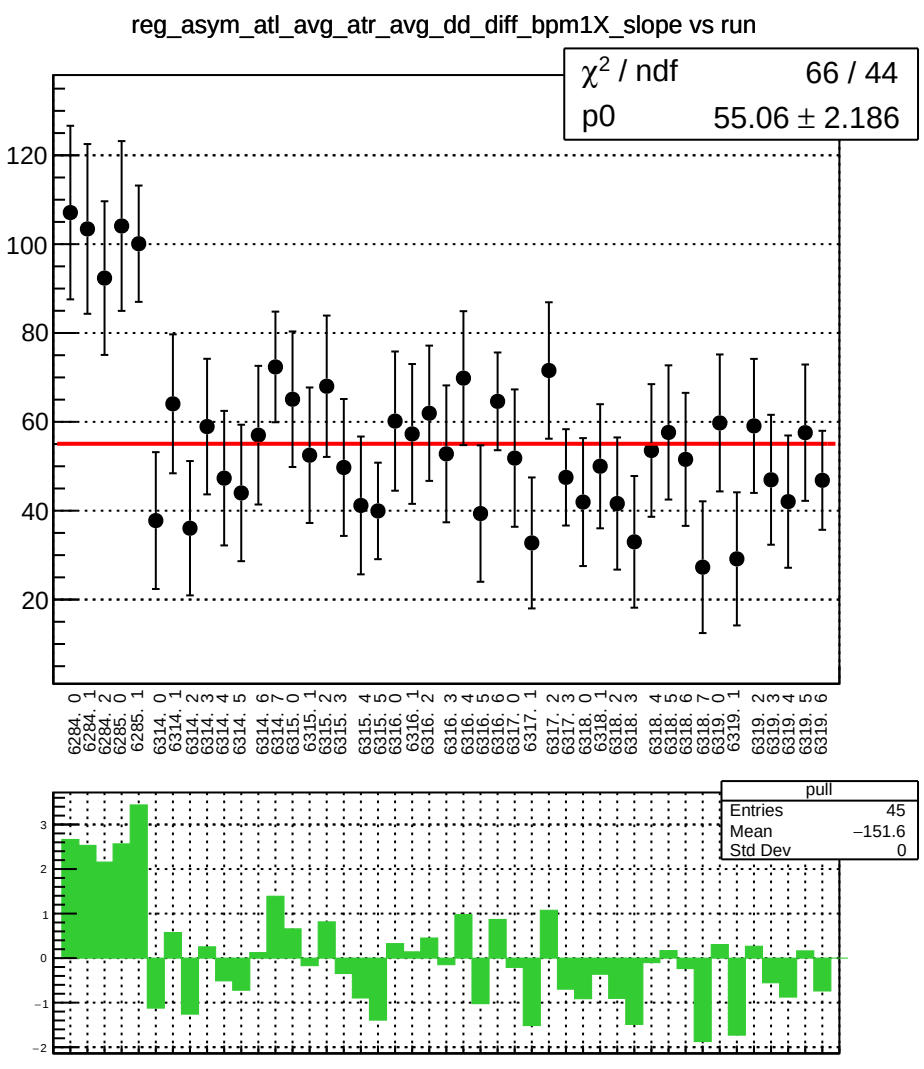

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.815 / 44
p0 −2.362 ± 4.781
pull
Entries 45
Mean −1.157e+04
Std Dev 0
pull1D
Entries 45
Mean −0.0001468
Std Dev 0.2912

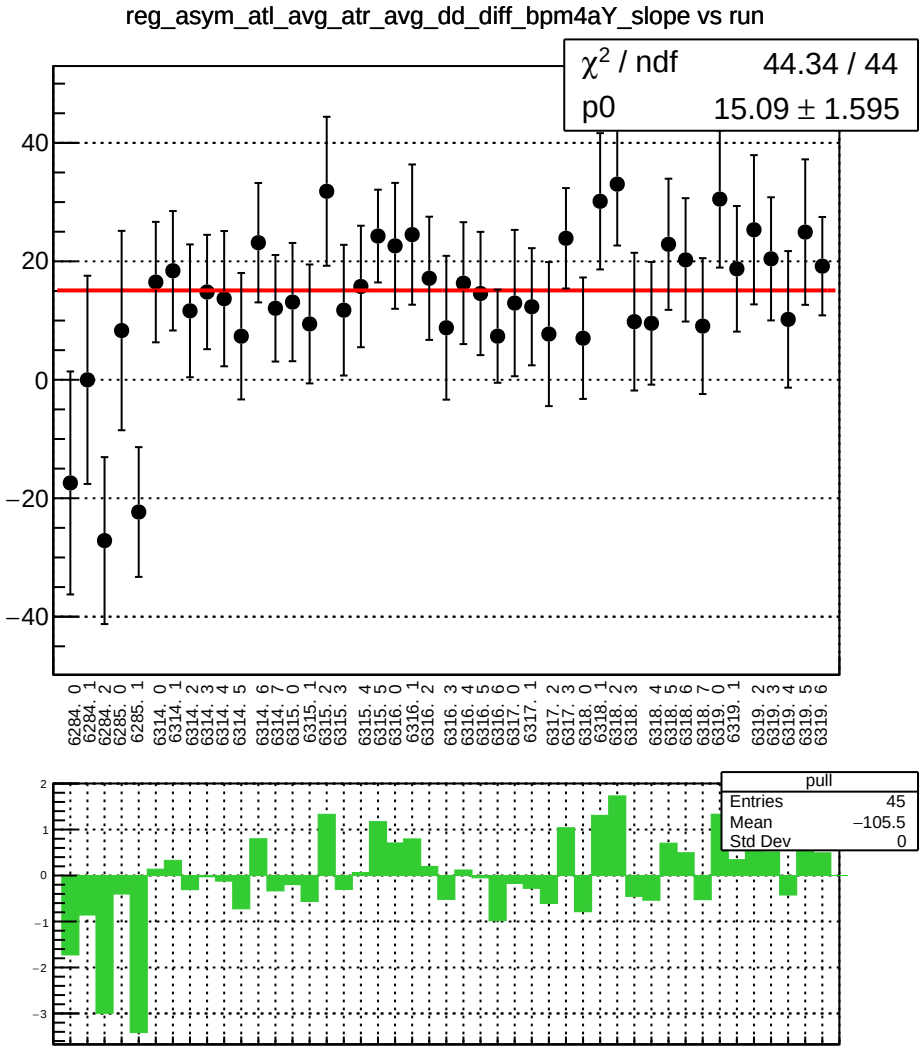

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.842 / 44
p0 418.1 ± 6.745
pull
Entries 45
Mean −60.39
Std Dev 0


pull1D
Entries 45
Mean 0.02188
Std Dev 0.4427


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.836 / 44
p0 81.52 ± 5.895
pull
Entries 45
Mean −883.8
Std Dev 0
pull1D
Entries 45
Mean 0.001953
Std Dev 0.292


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.26 / 44
p0 −172.1± 0.488
−165
−170
−175
−180
−185
−190
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −31.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.07239
Std Dev 0.8031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 66 / 44
p0 55.06 ± 2.186
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −151.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.04753
Std Dev 1.21
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.34 / 44
p0 15.09 ± 1.595
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
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6316. 2
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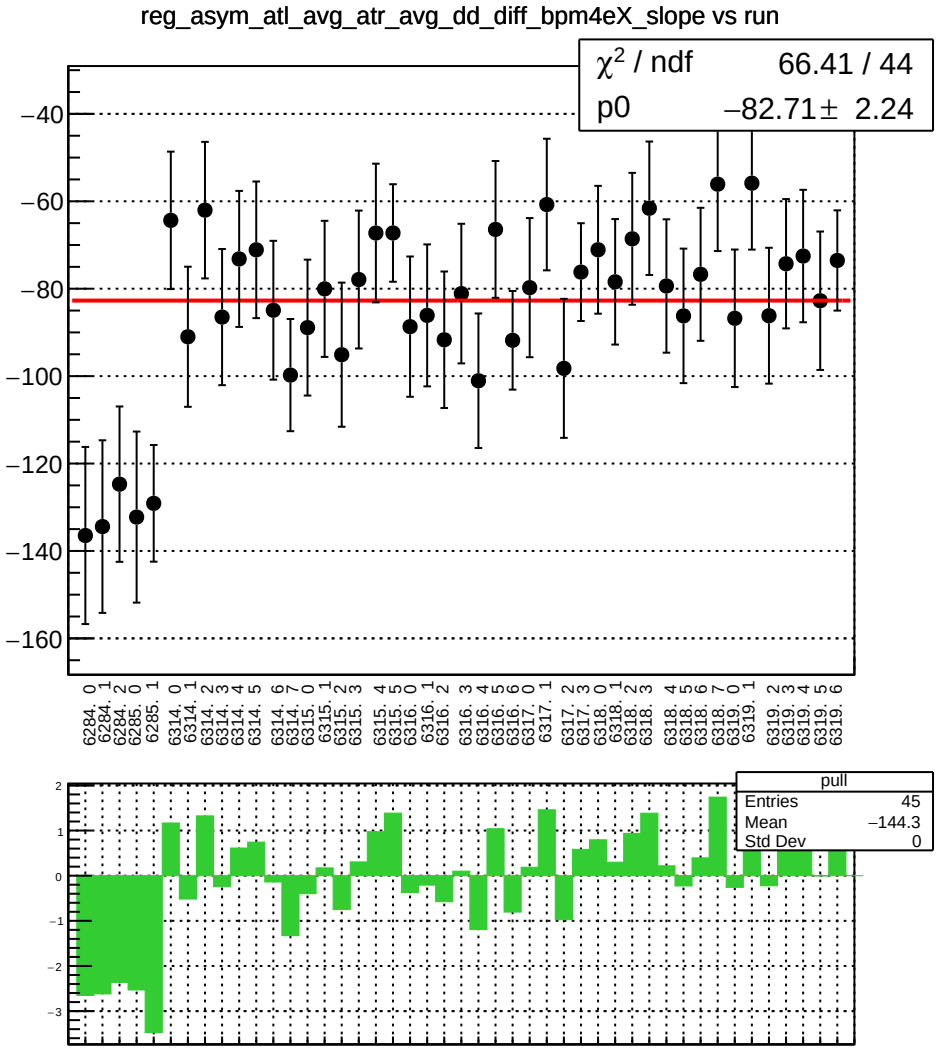
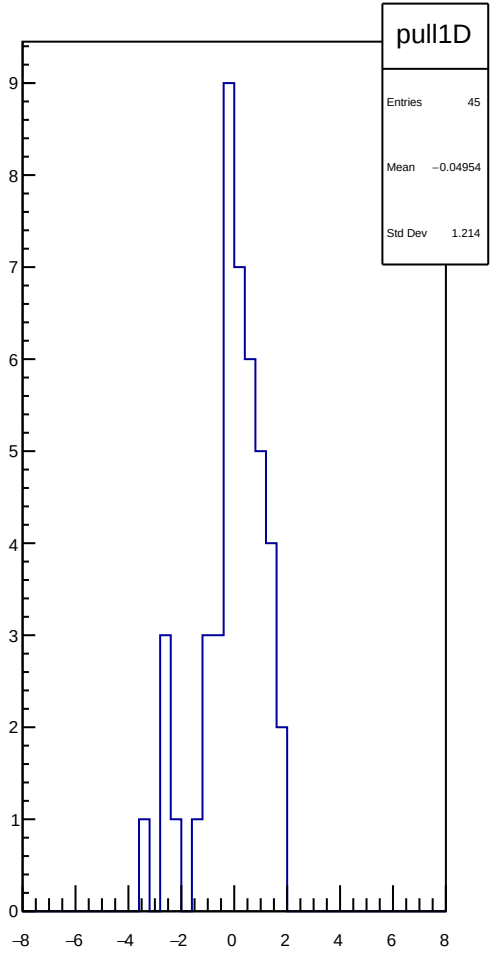
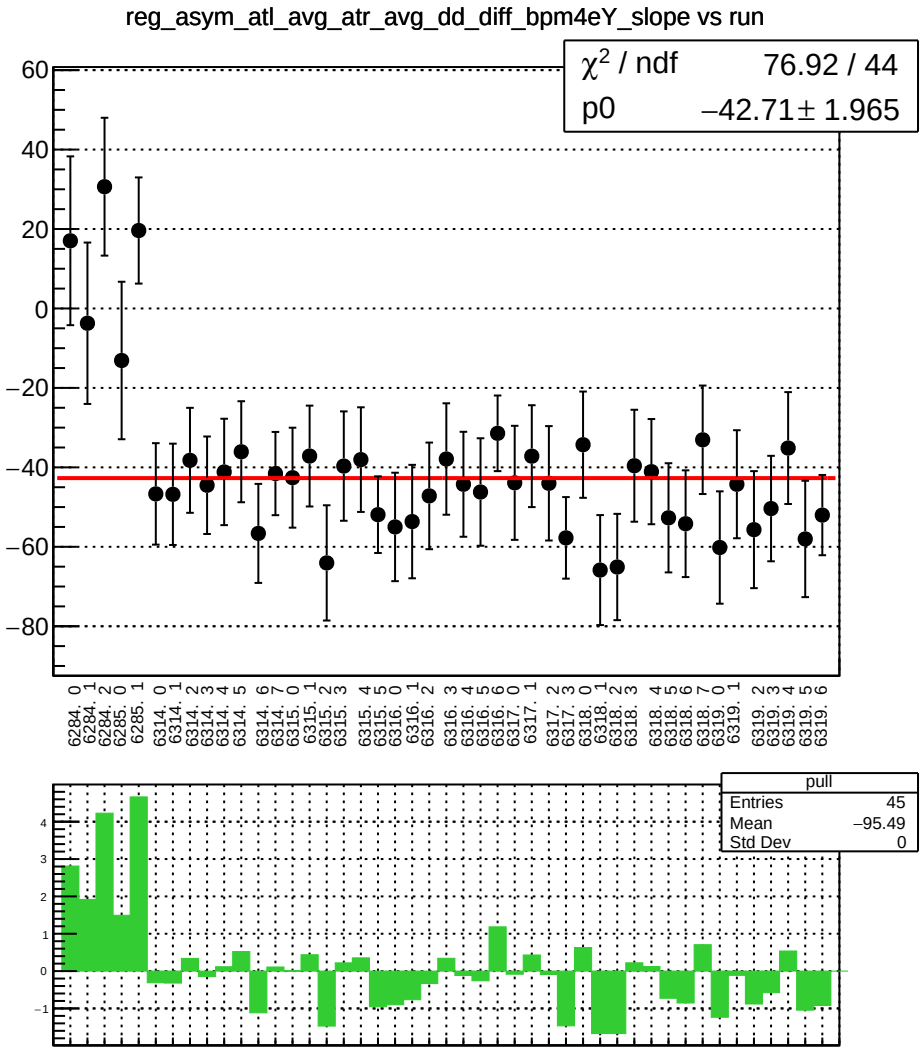
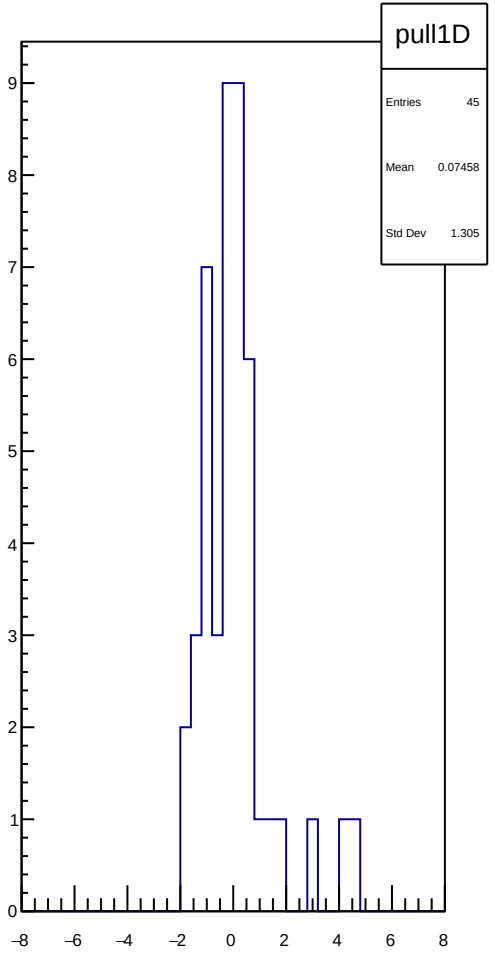
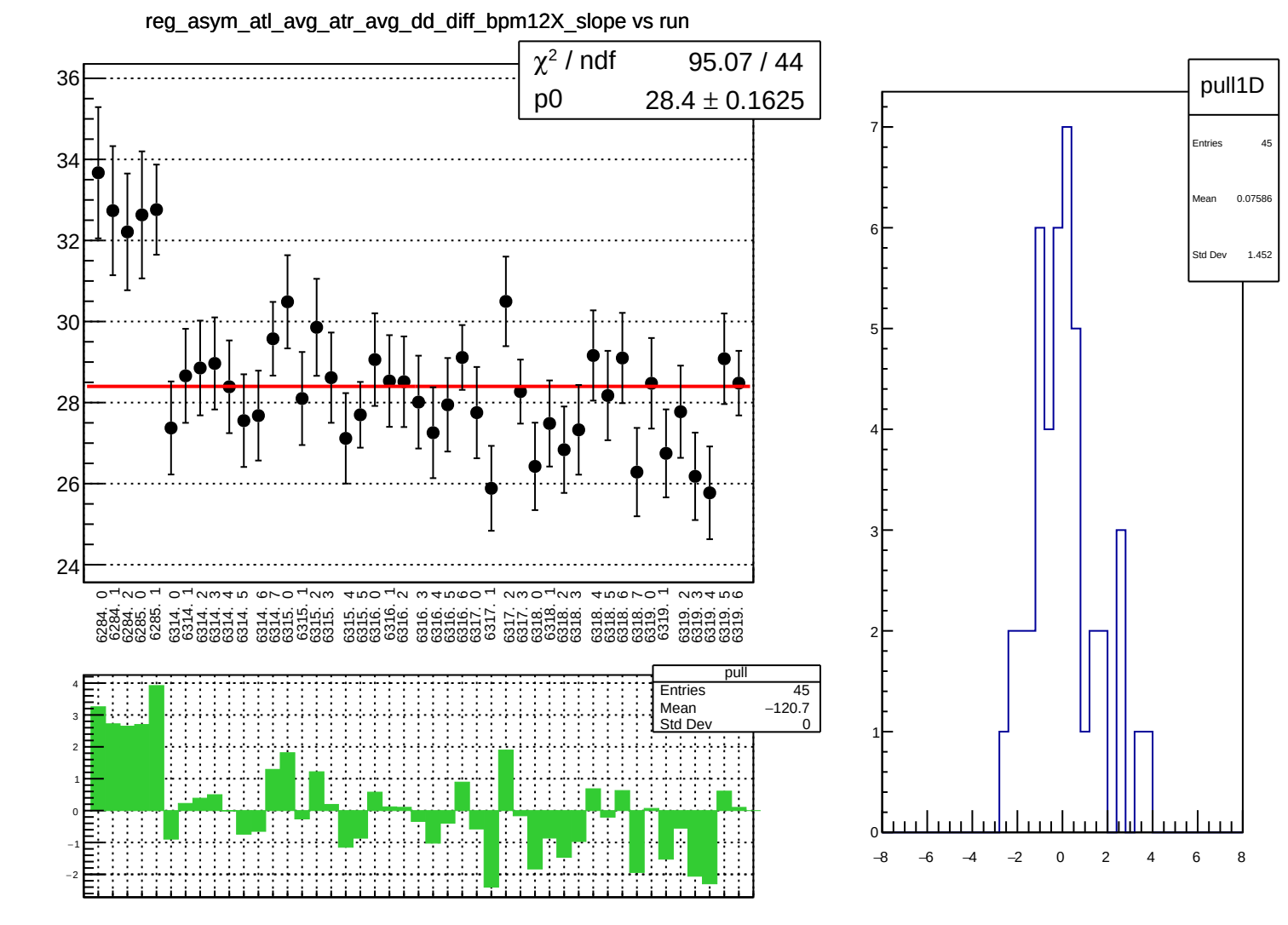
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −105.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.04621
Std Dev 0.9916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

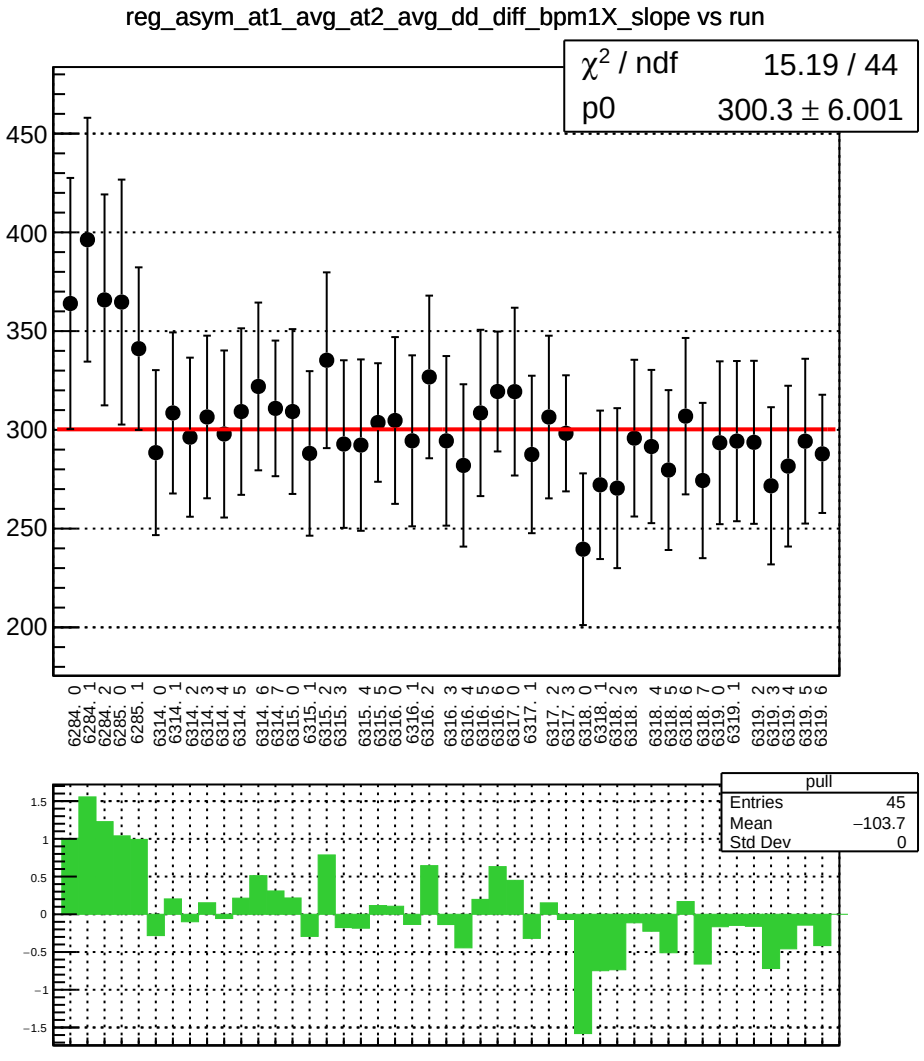

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.41 / 44
p0 −82.71± 2.24
pull
Entries 45
Mean −144.3
Std Dev 0

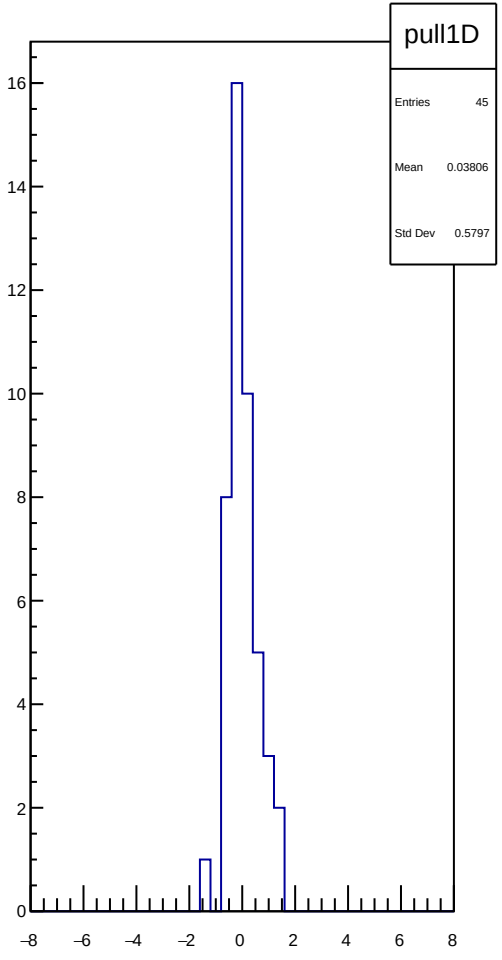

pull1D
Entries 45
Mean −0.04954
Std Dev 1.214

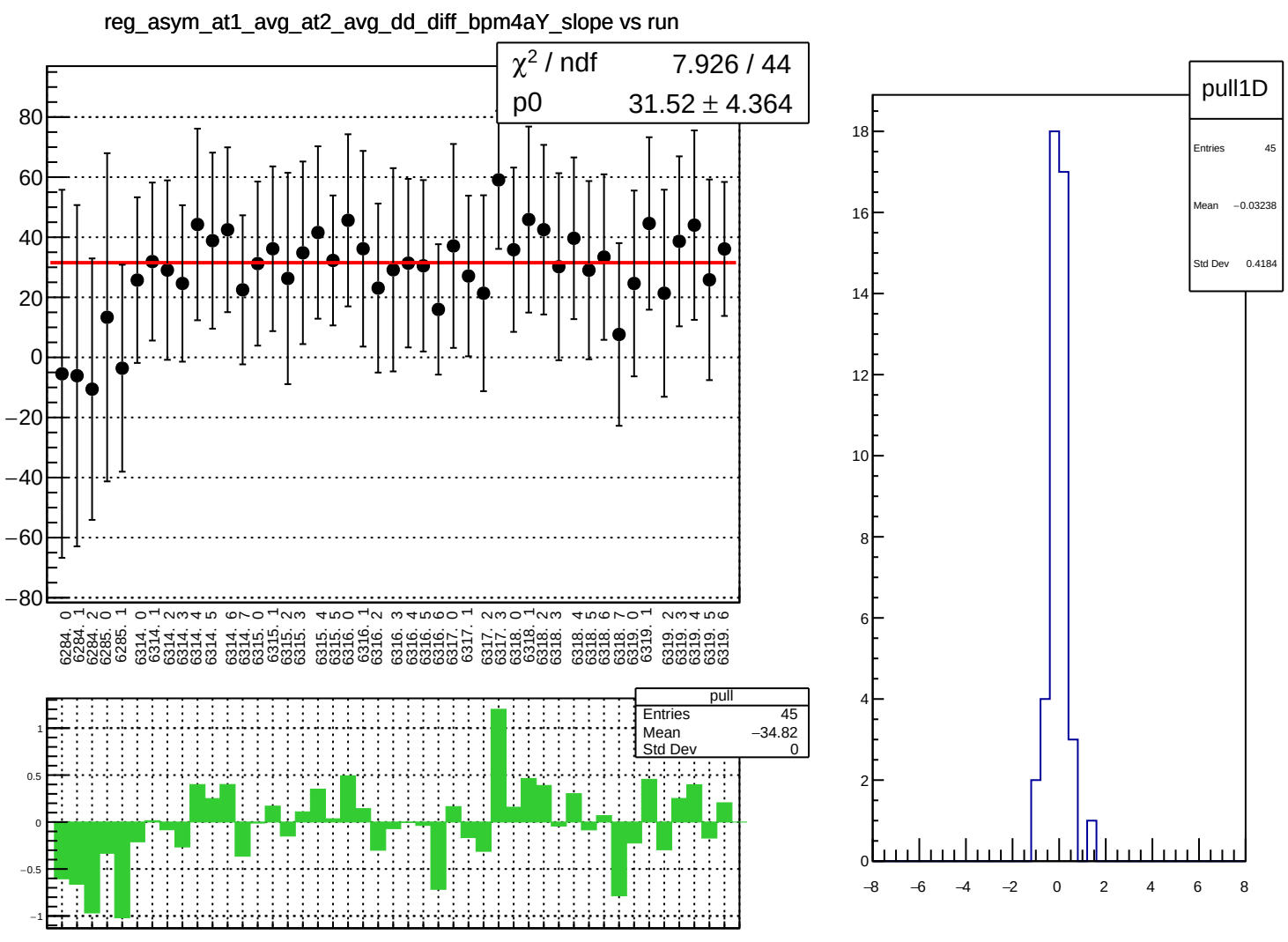

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.92 / 44
p0 −42.71± 1.965
pull
Entries 45
Mean −95.49
Std Dev 0

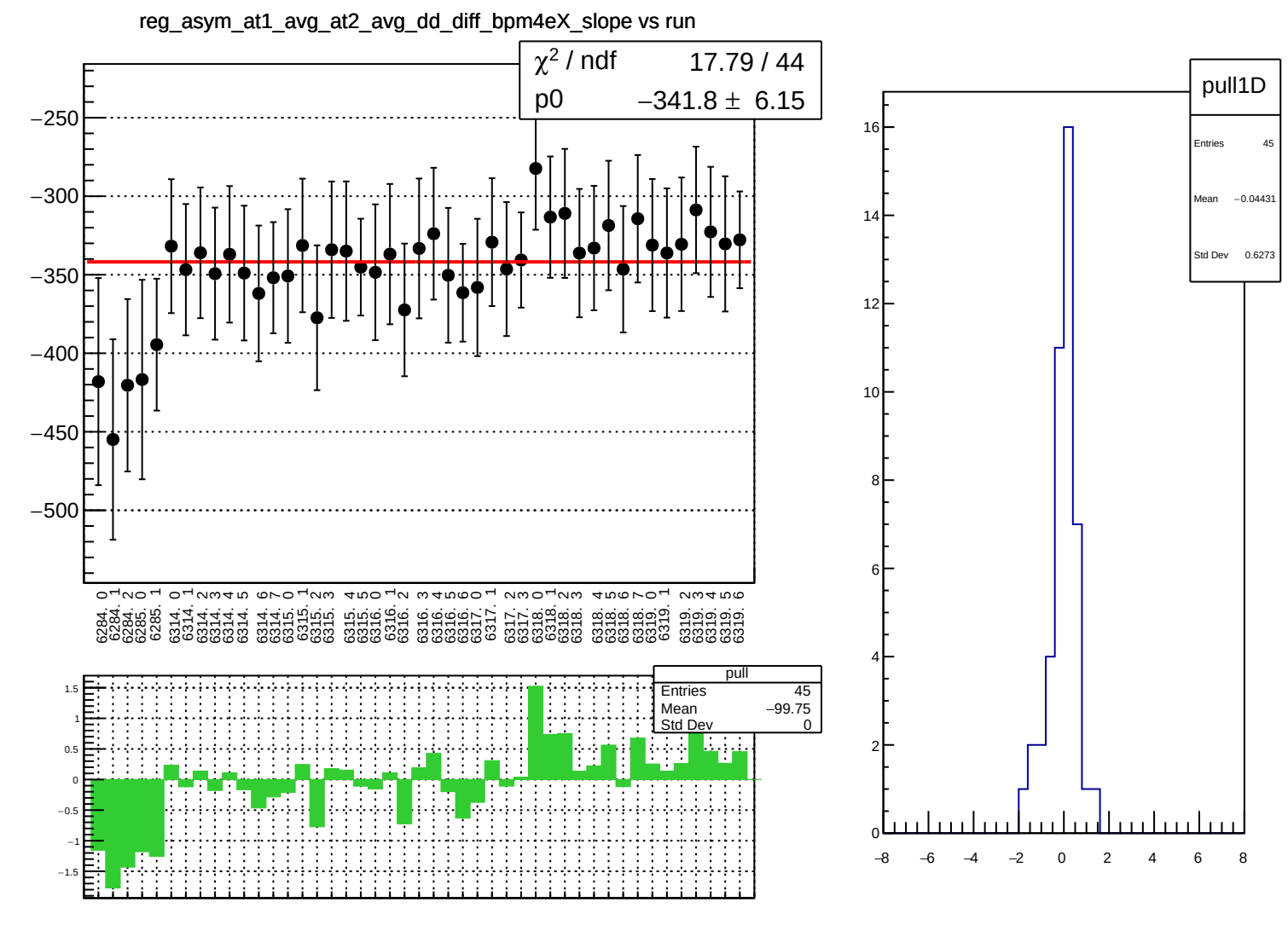

pull1D
Entries 45
Mean 0.07458
Std Dev 1.305

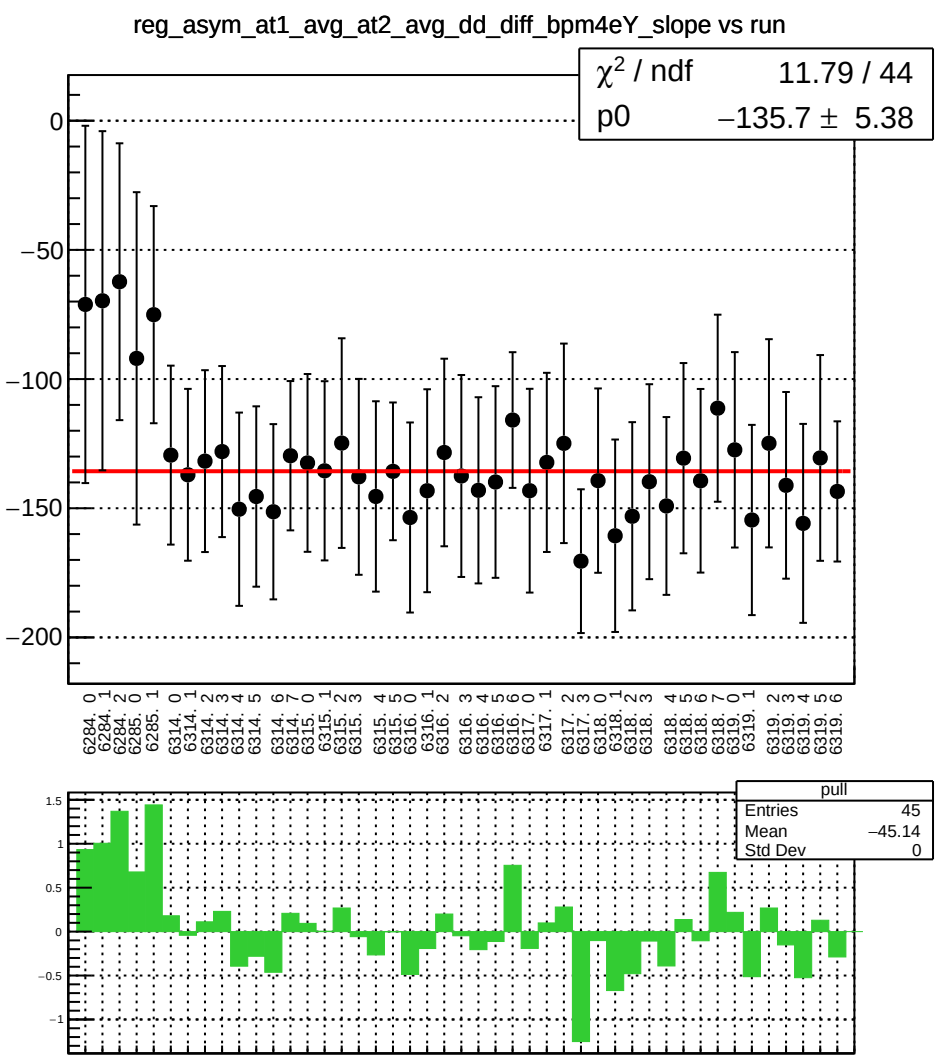

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 95.07 / 44
p0 28.4 ± 0.1625
pull
Entries 45
Mean −120.7
Std Dev 0
pull1D
Entries 45
Mean 0.07586
Std Dev 1.452

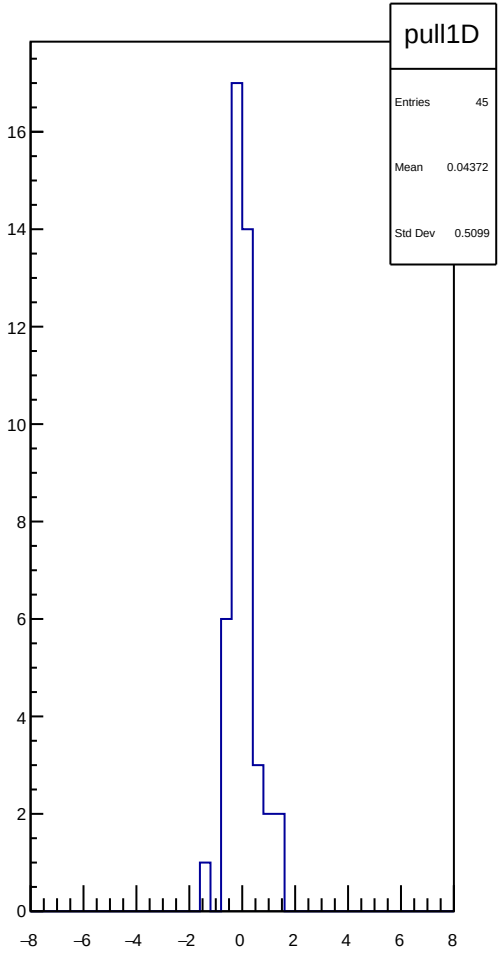

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 44
p0 300.3 ± 6.001
pull
Entries 45
Mean −103.7
Std Dev 0

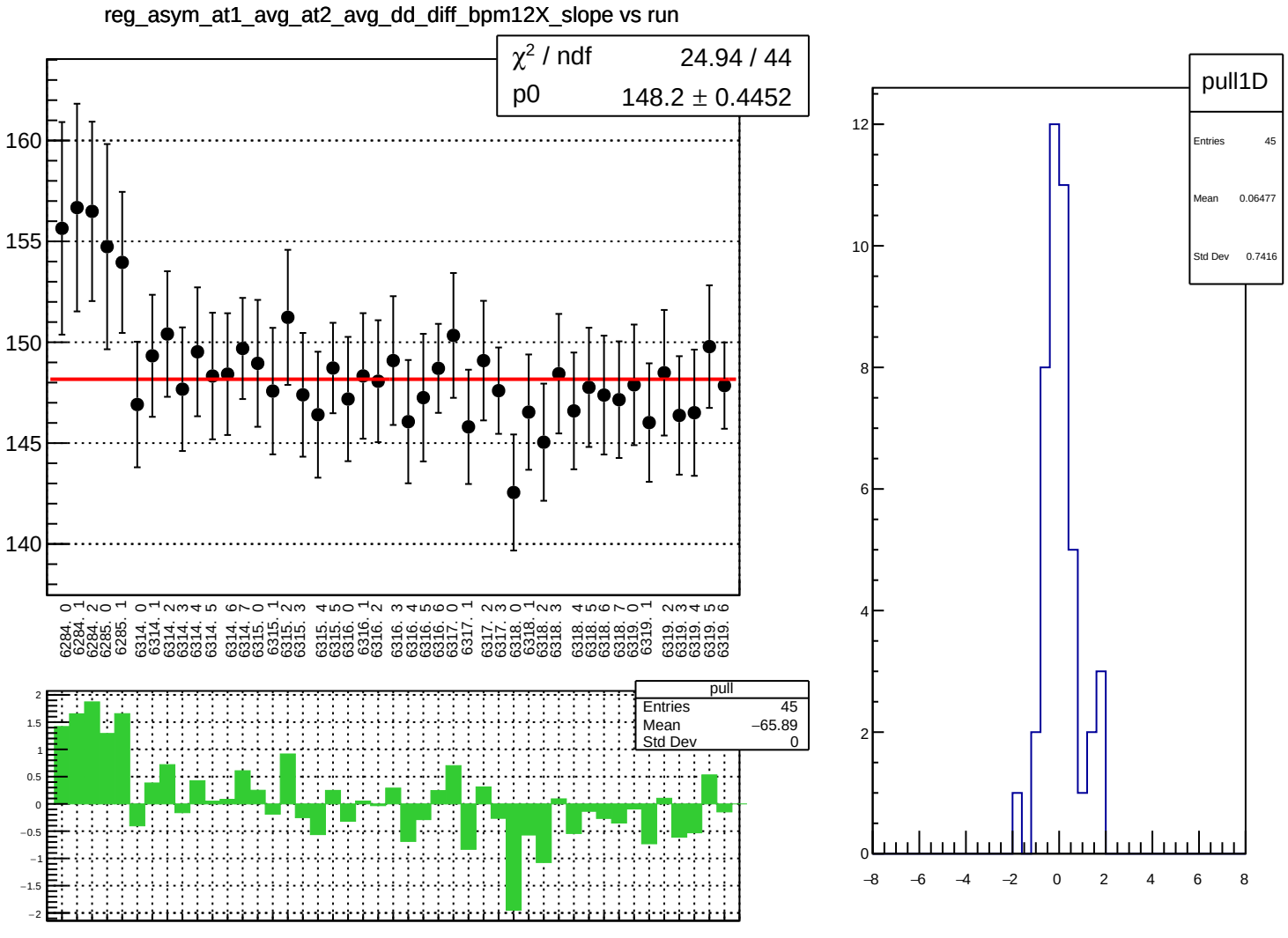

pull1D
Entries 45
Mean 0.03806
Std Dev 0.5797


reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.926 / 44
p0 31.52 ± 4.364
pull
Entries 45
Mean −34.82
Std Dev 0
pull1D
Entries 45
Mean −0.03238
Std Dev 0.4184


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.79 / 44
p0 −341.8 ± 6.15
−250
−300
−350
−400
−450
−500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −99.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04431
Std Dev 0.6273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.79 / 44
p0 −135.7 ± 5.38
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −45.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean 0.04372
Std Dev 0.5099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 24.94 / 44
p0 148.2 ± 0.4452
160
155
150
145
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
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6315. 2
6315. 3
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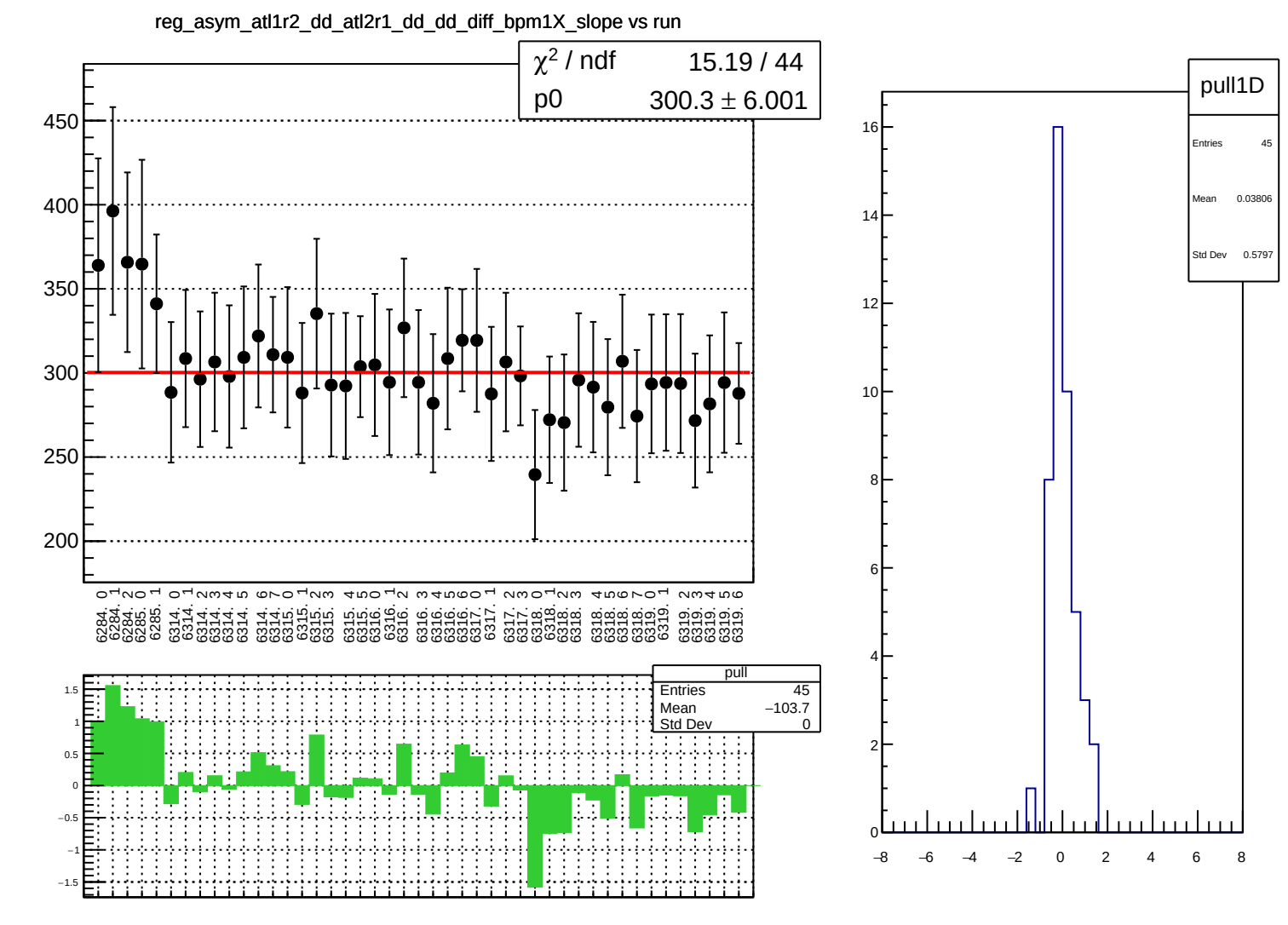
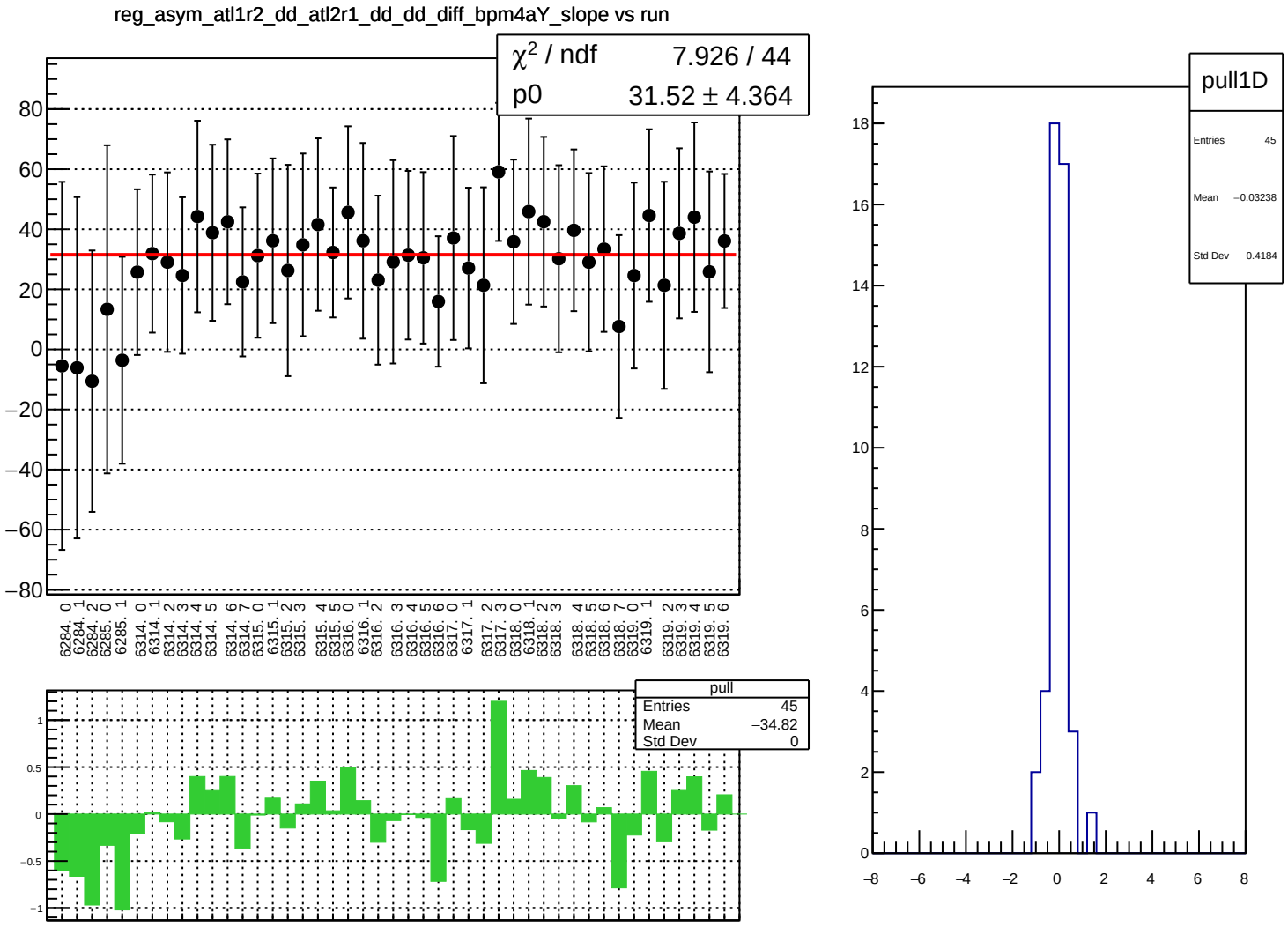
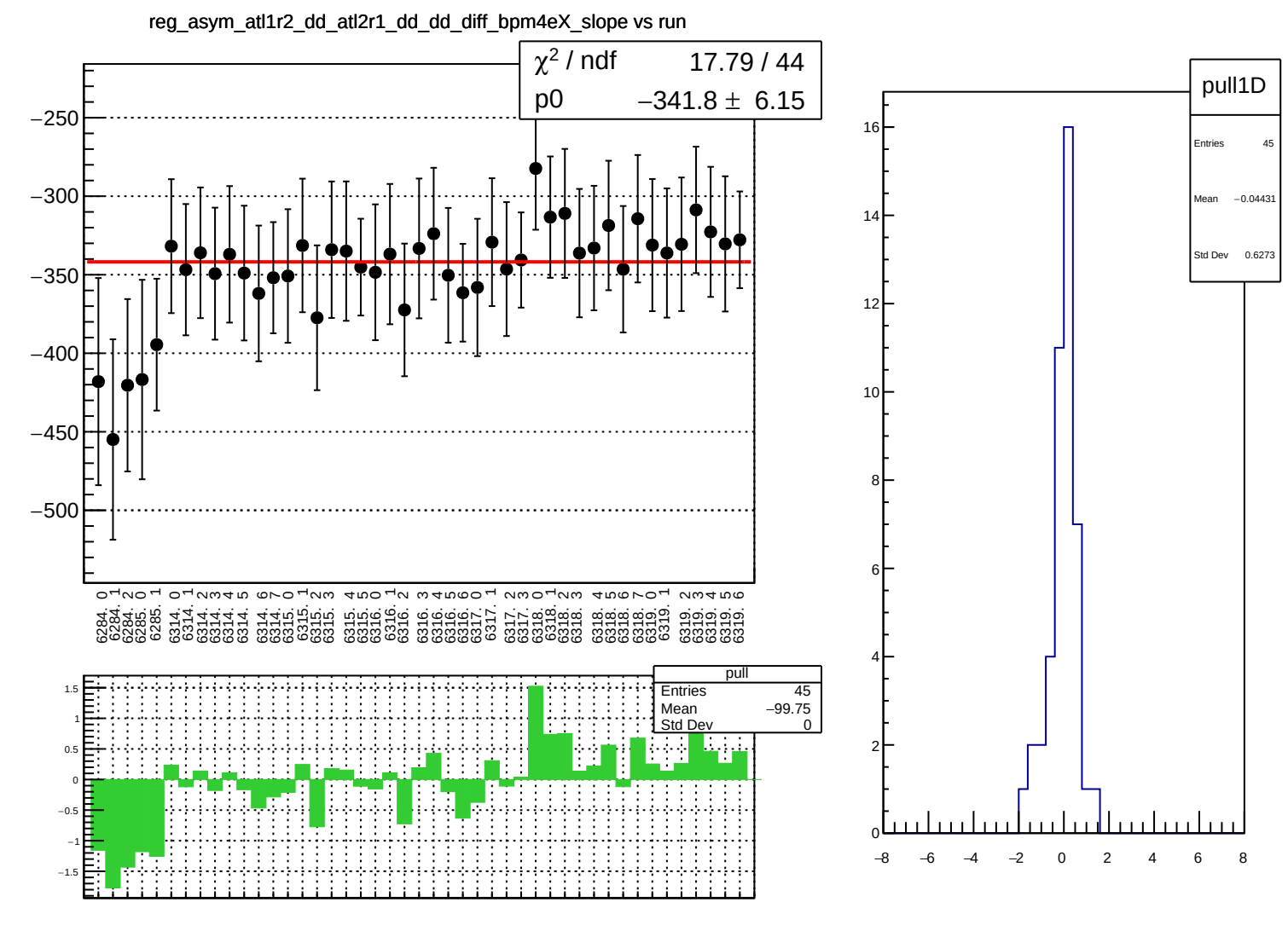
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −65.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.06477
Std Dev 0.7416
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 44
p0 300.3 ± 6.001
pull
Entries 45
Mean −103.7
Std Dev 0
pull1D
Entries 45
Mean 0.03806
Std Dev 0.5797


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.926 / 44
p0 31.52 ± 4.364
pull
Entries 45
Mean −34.82
Std Dev 0
pull1D
Entries 45
Mean −0.03238
Std Dev 0.4184


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.79 / 44
p0 −341.8 ± 6.15
−250
−300
−350
−400
−450
−500
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −99.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04431
Std Dev 0.6273
16
14
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10
8
6
4
2
0
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−4
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2
4
6
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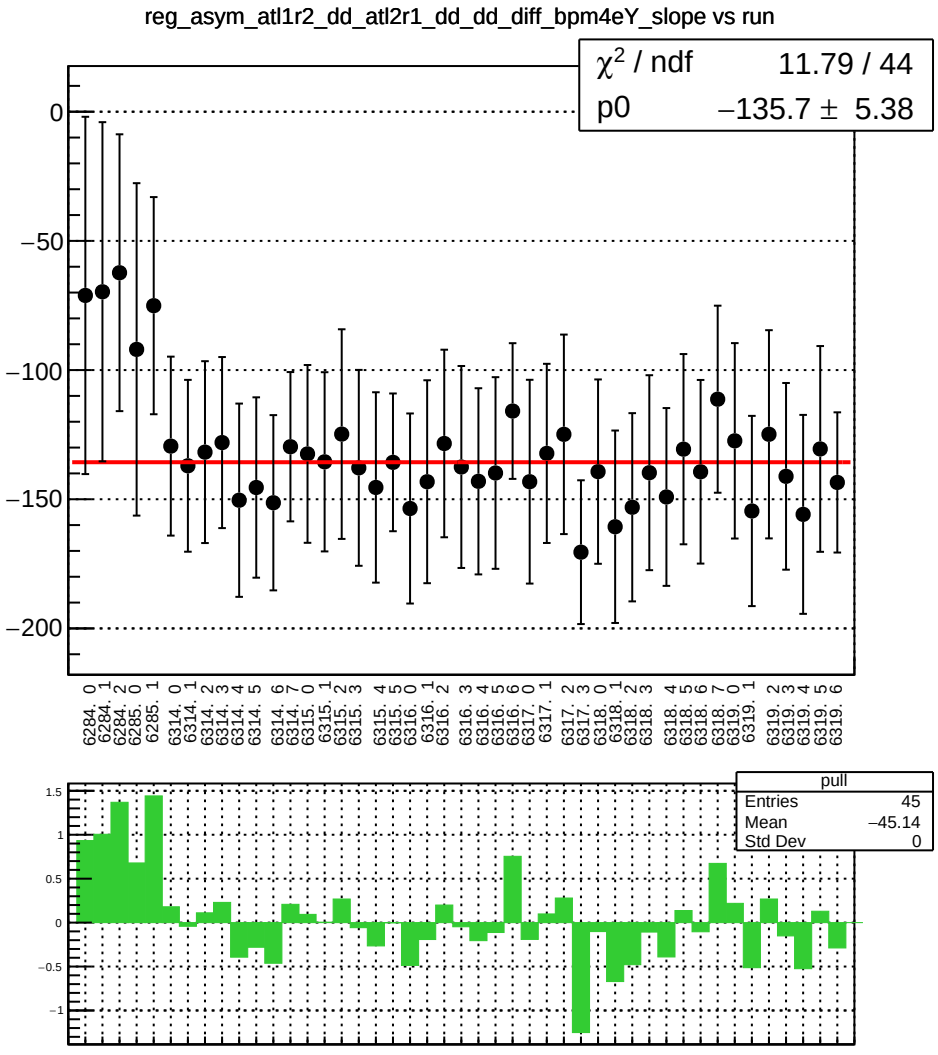
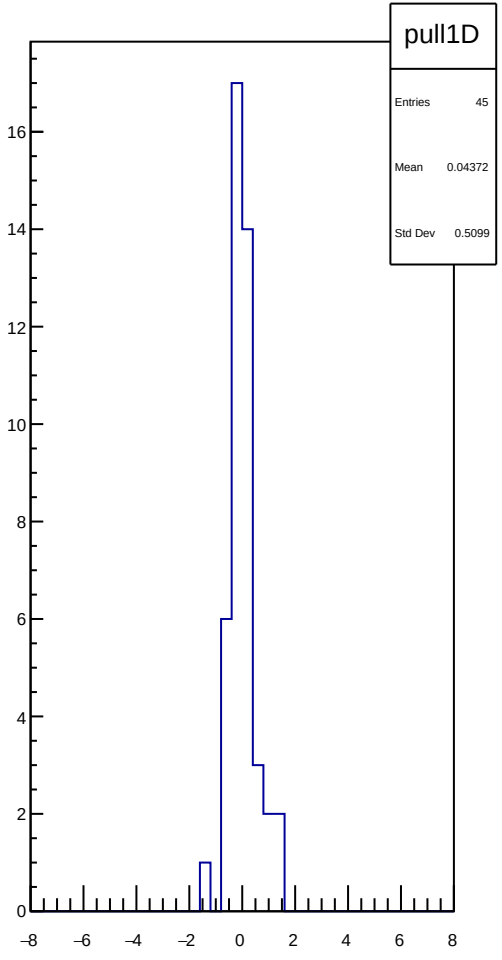
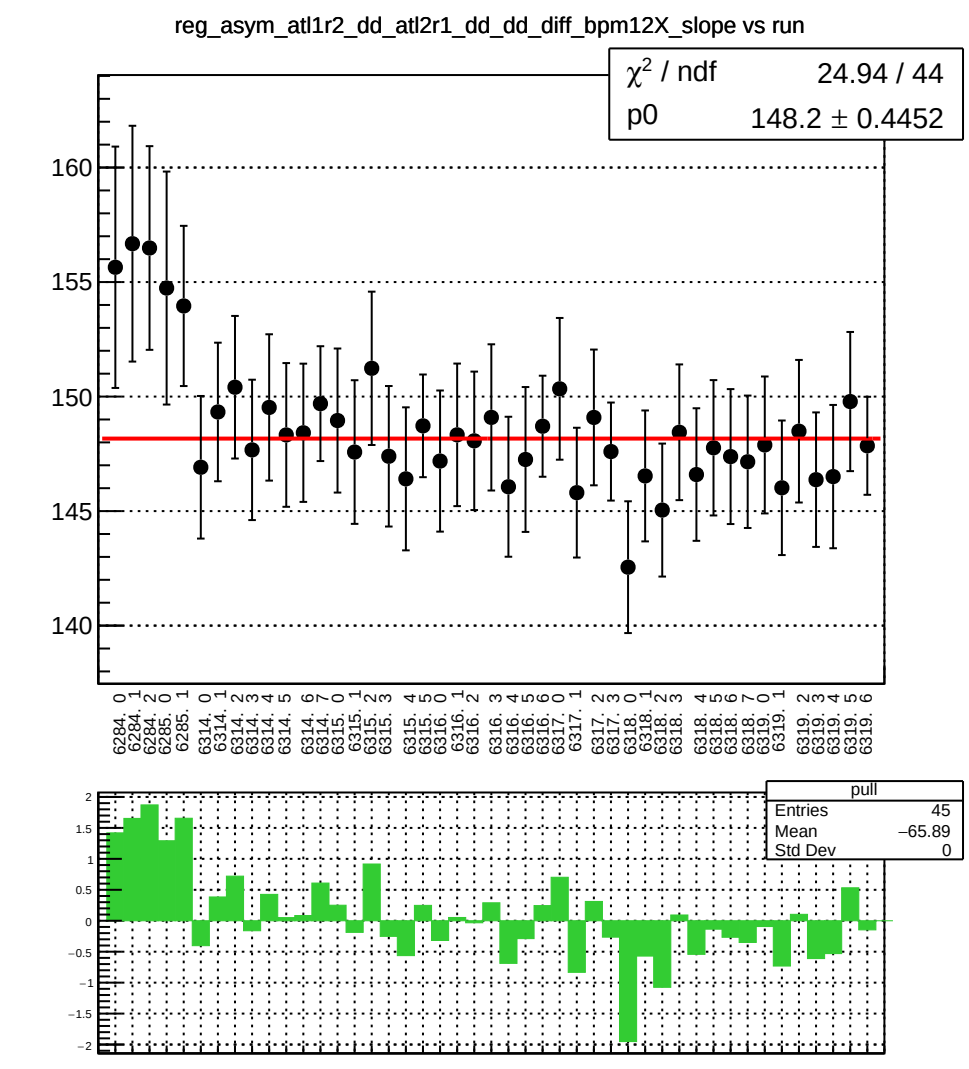

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.79 / 44
p0 −135.7 ± 5.38
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −45.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean 0.04372
Std Dev 0.5099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 24.94 / 44
p0 148.2 ± 0.4452
160
155
150
145
140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
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6315. 5
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6316. 2
6316. 3
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6316. 5
6316. 6
6317. 0
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6317. 2
6317. 3
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6318. 1
6318. 2
6318. 3
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6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −65.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.06477
Std Dev 0.7416
12
10
8
6
4
2
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−8
−6
−4
−2
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2
4
6
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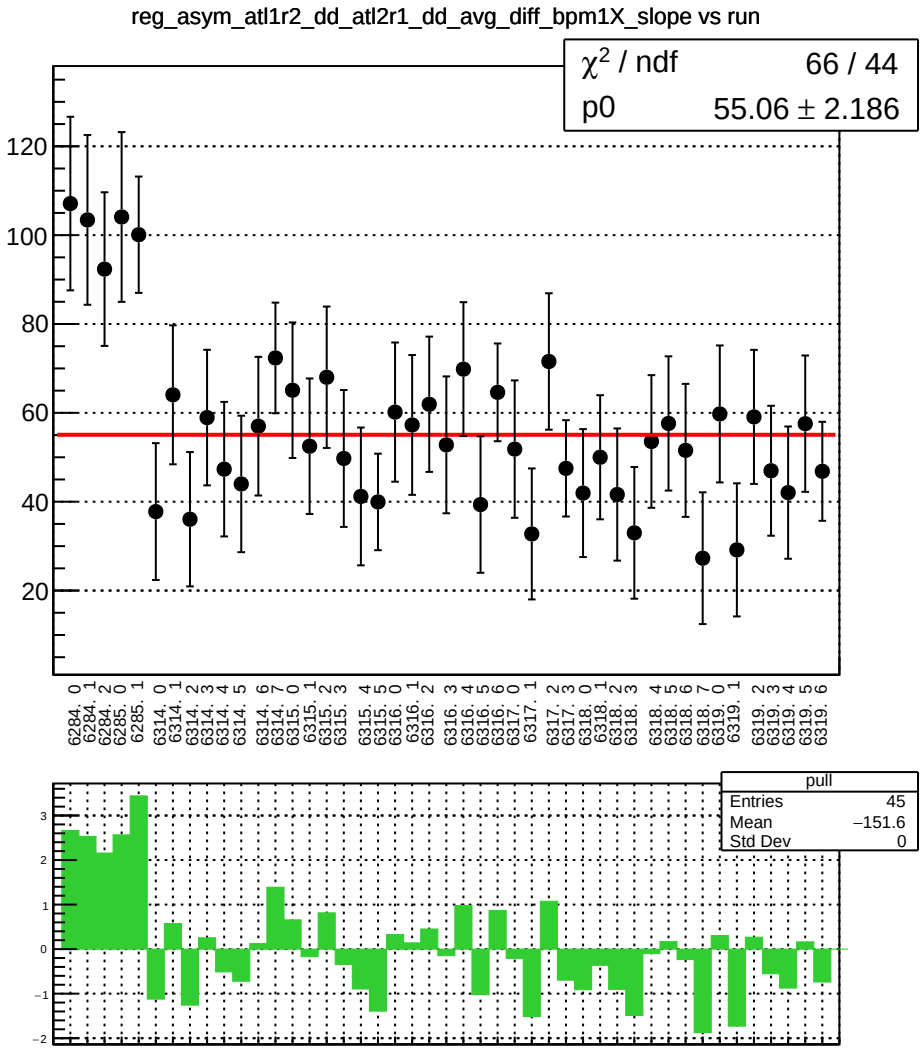
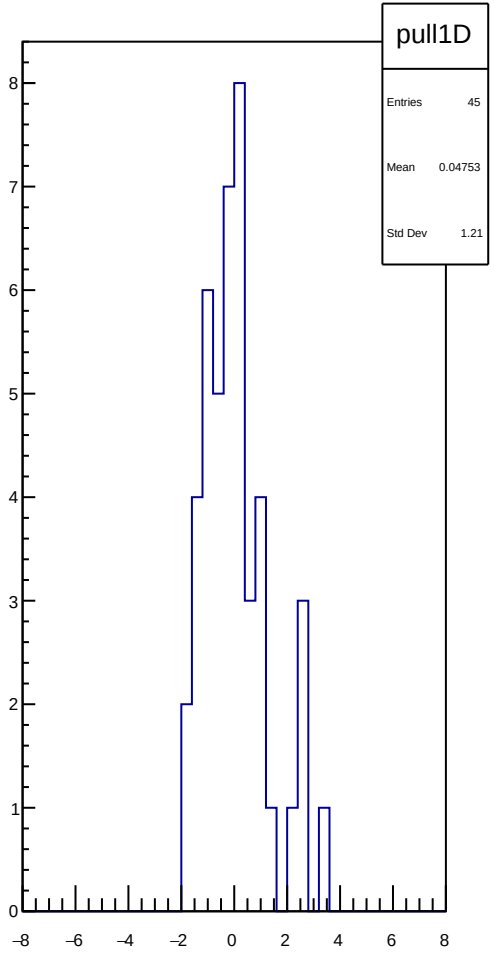
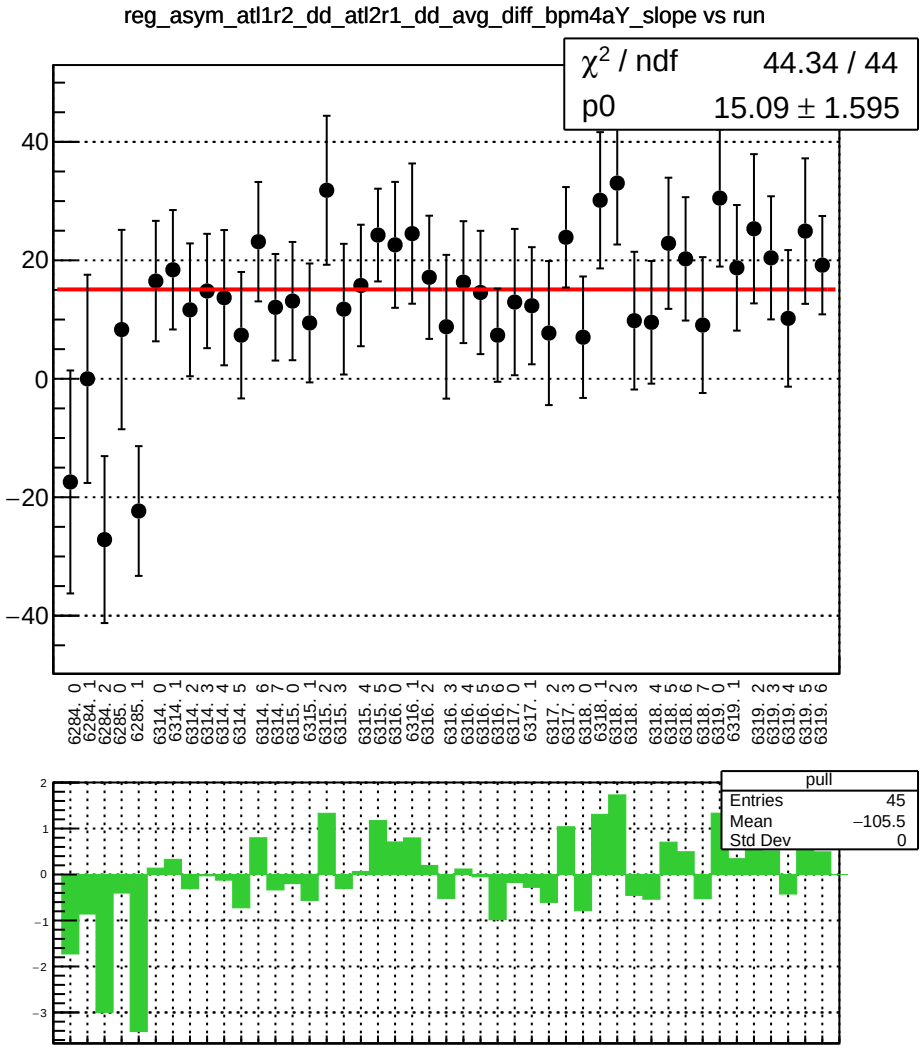
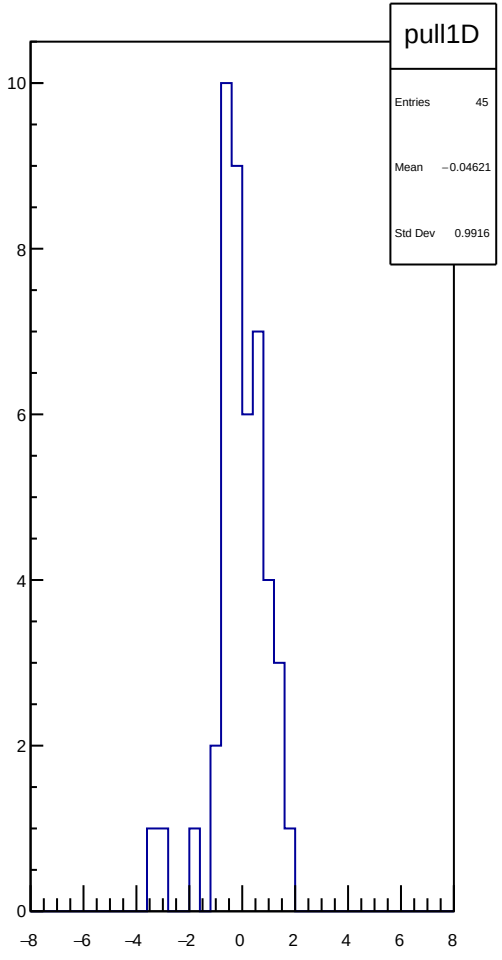
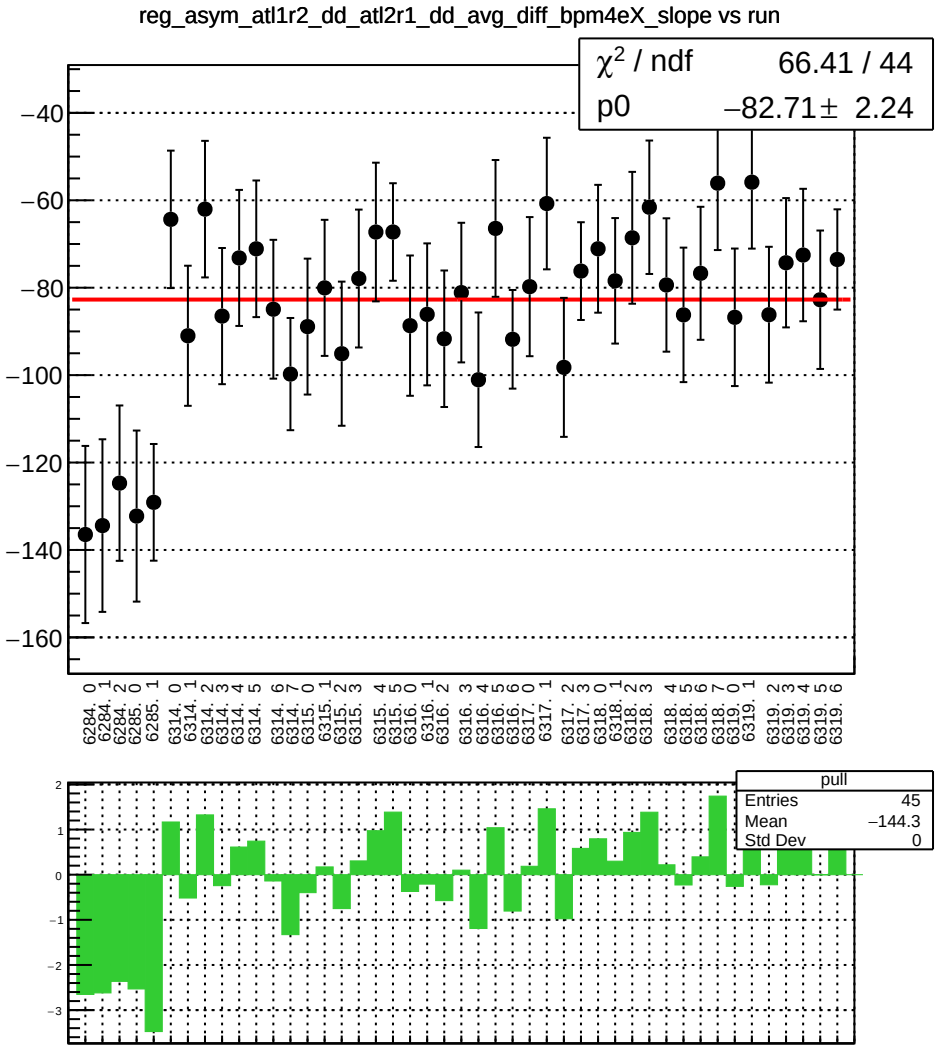
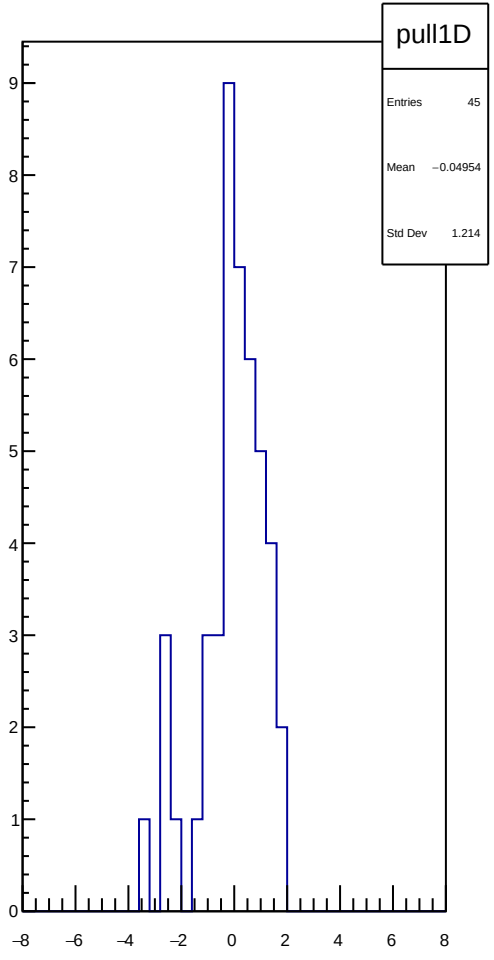

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66 / 44
p0 55.06 ± 2.186
pull
Entries 45
Mean −151.6
Std Dev 0

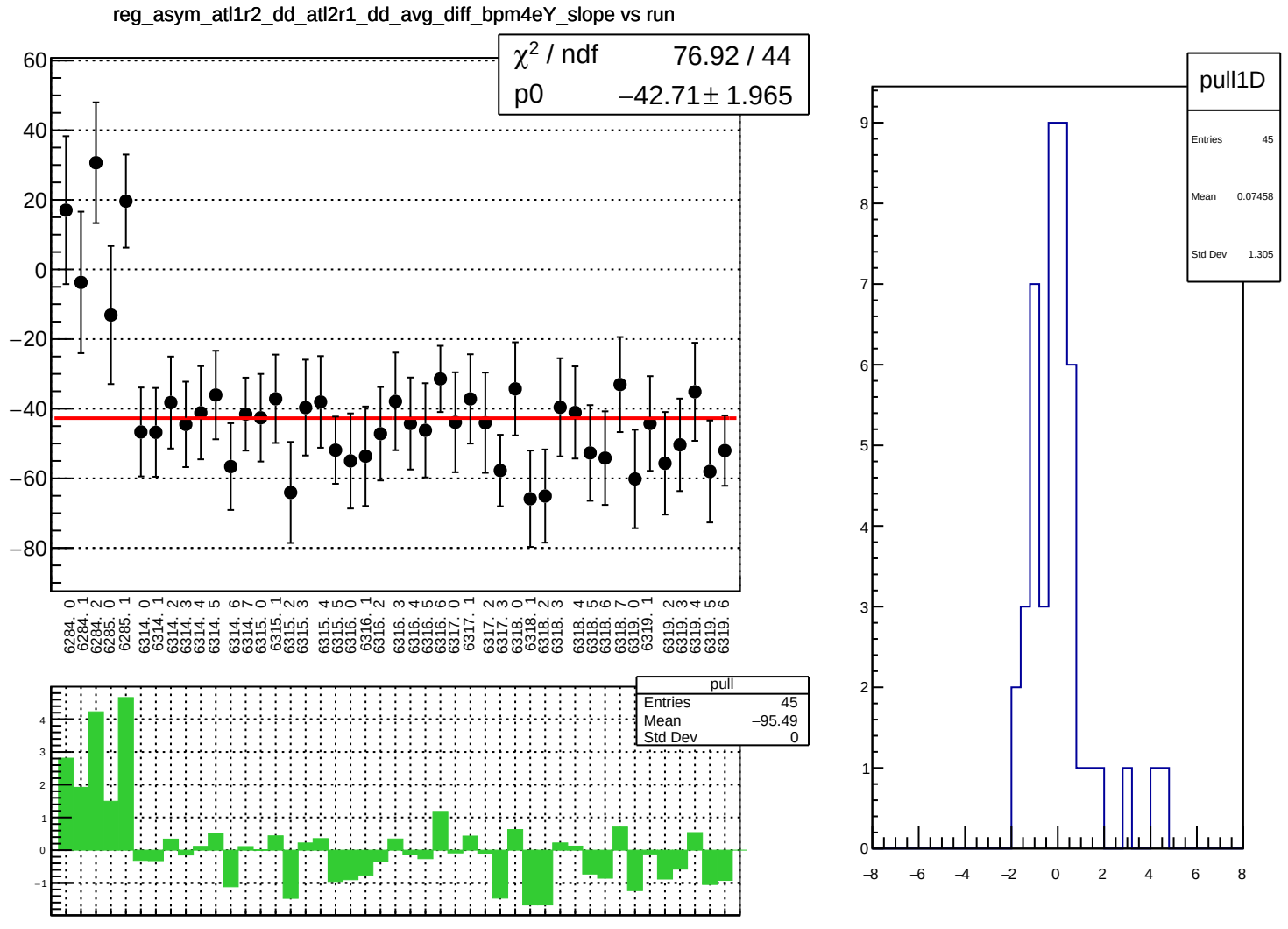

pull1D
Entries 45
Mean 0.04753
Std Dev 1.21

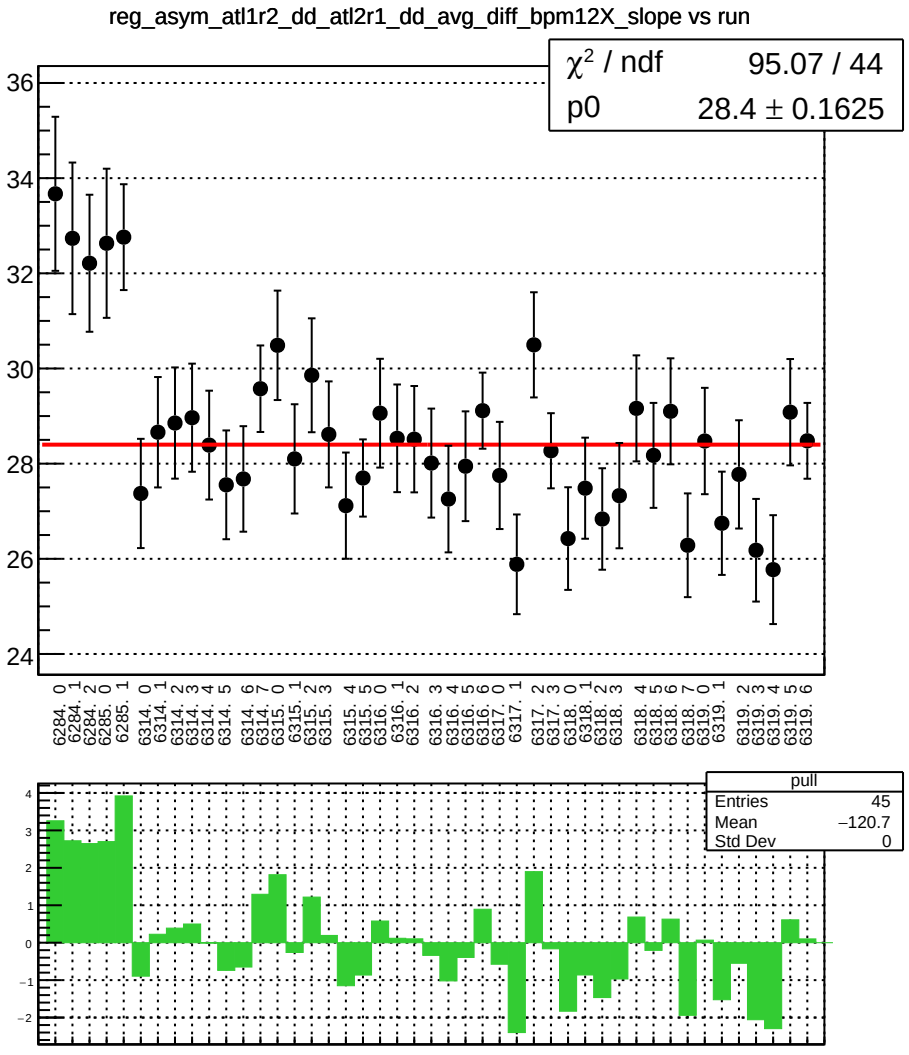

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.34 / 44
p0 15.09 ± 1.595
pull
Entries 45
Mean −105.5
Std Dev 0

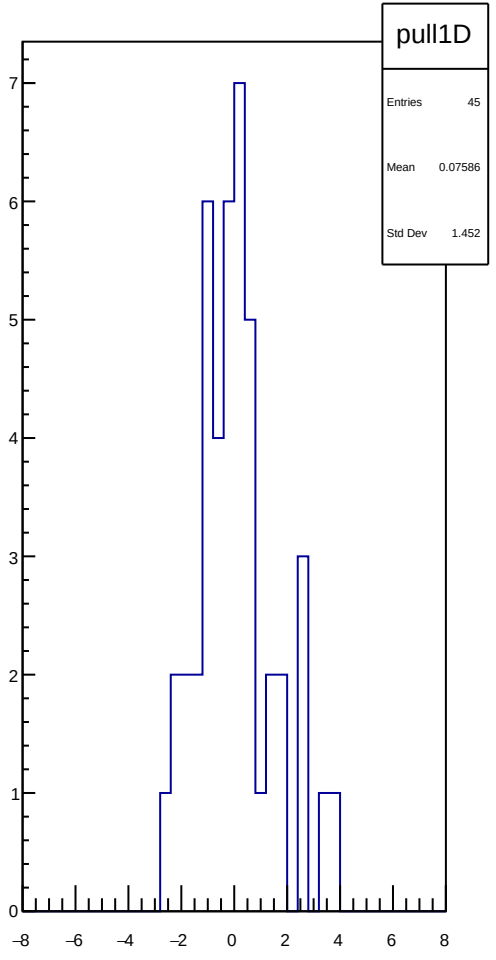

pull1D
Entries 45
Mean −0.04621
Std Dev 0.9916

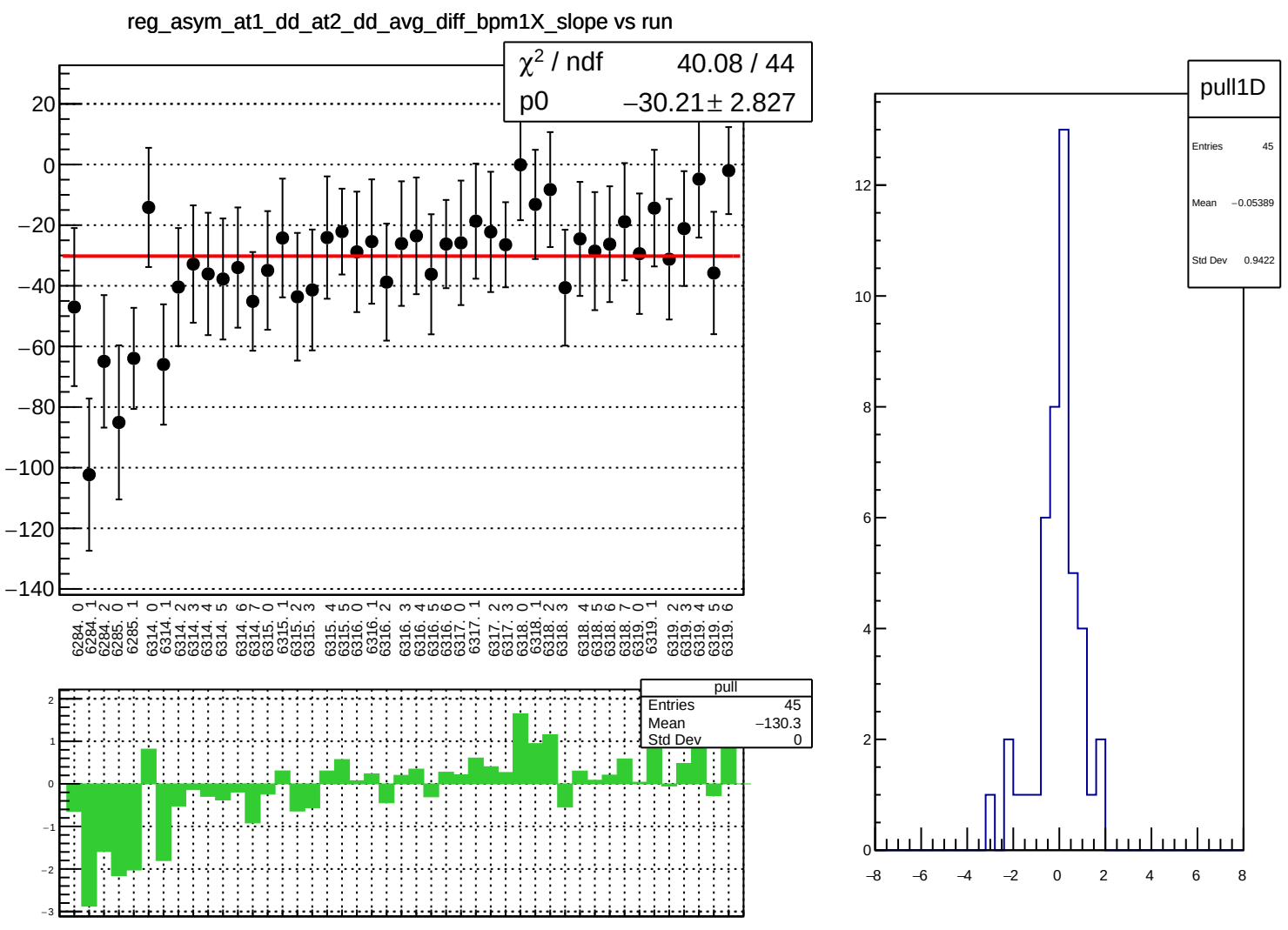

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.41 / 44
p0 −82.71± 2.24
pull
Entries 45
Mean −144.3
Std Dev 0

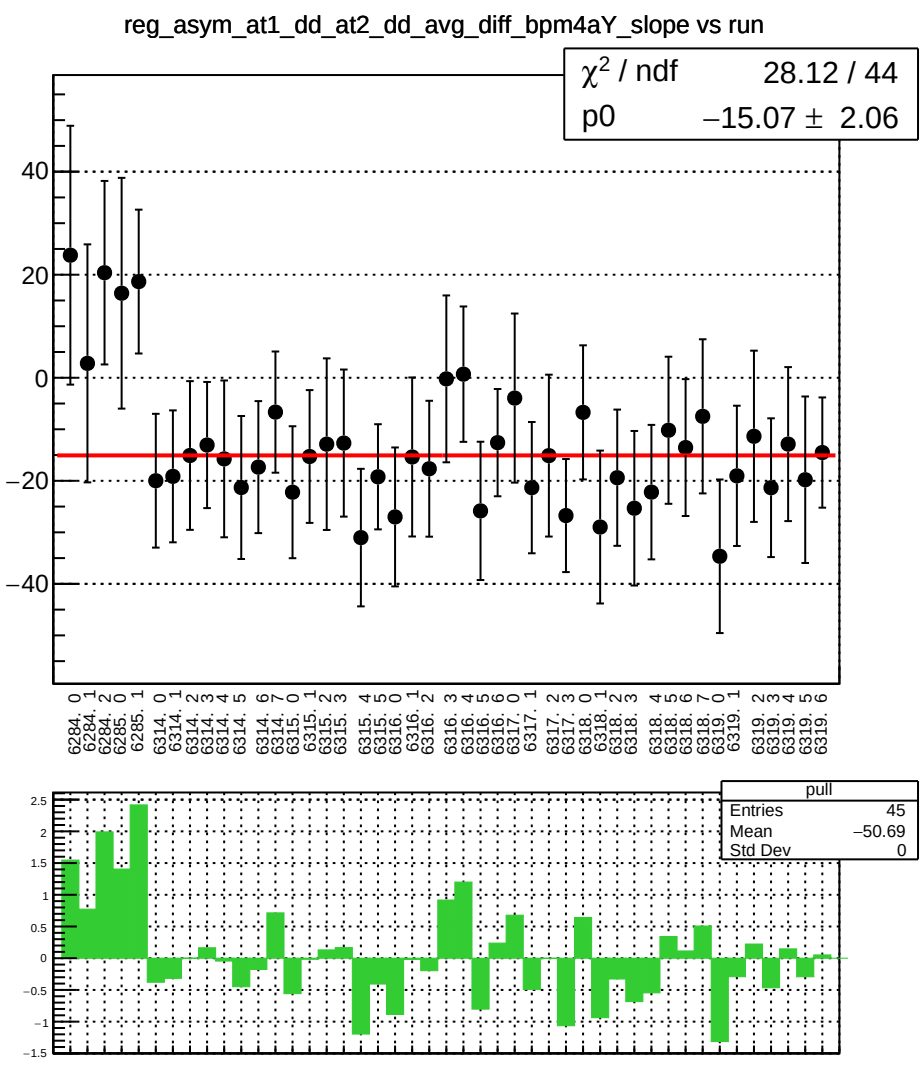

pull1D
Entries 45
Mean −0.04954
Std Dev 1.214

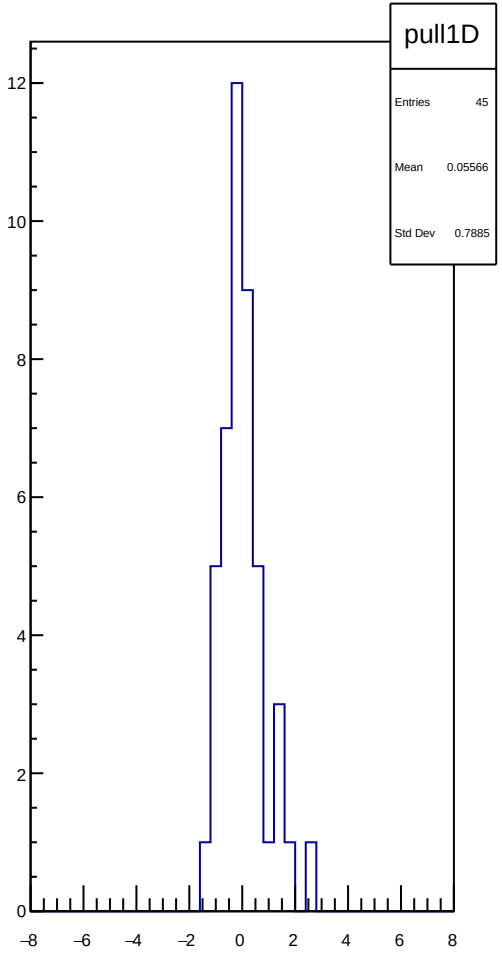

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.92 / 44
p0 −42.71 ± 1.965
pull
Entries 45
Mean −95.49
Std Dev 0
pull1D
Entries 45
Mean 0.07458
Std Dev 1.305

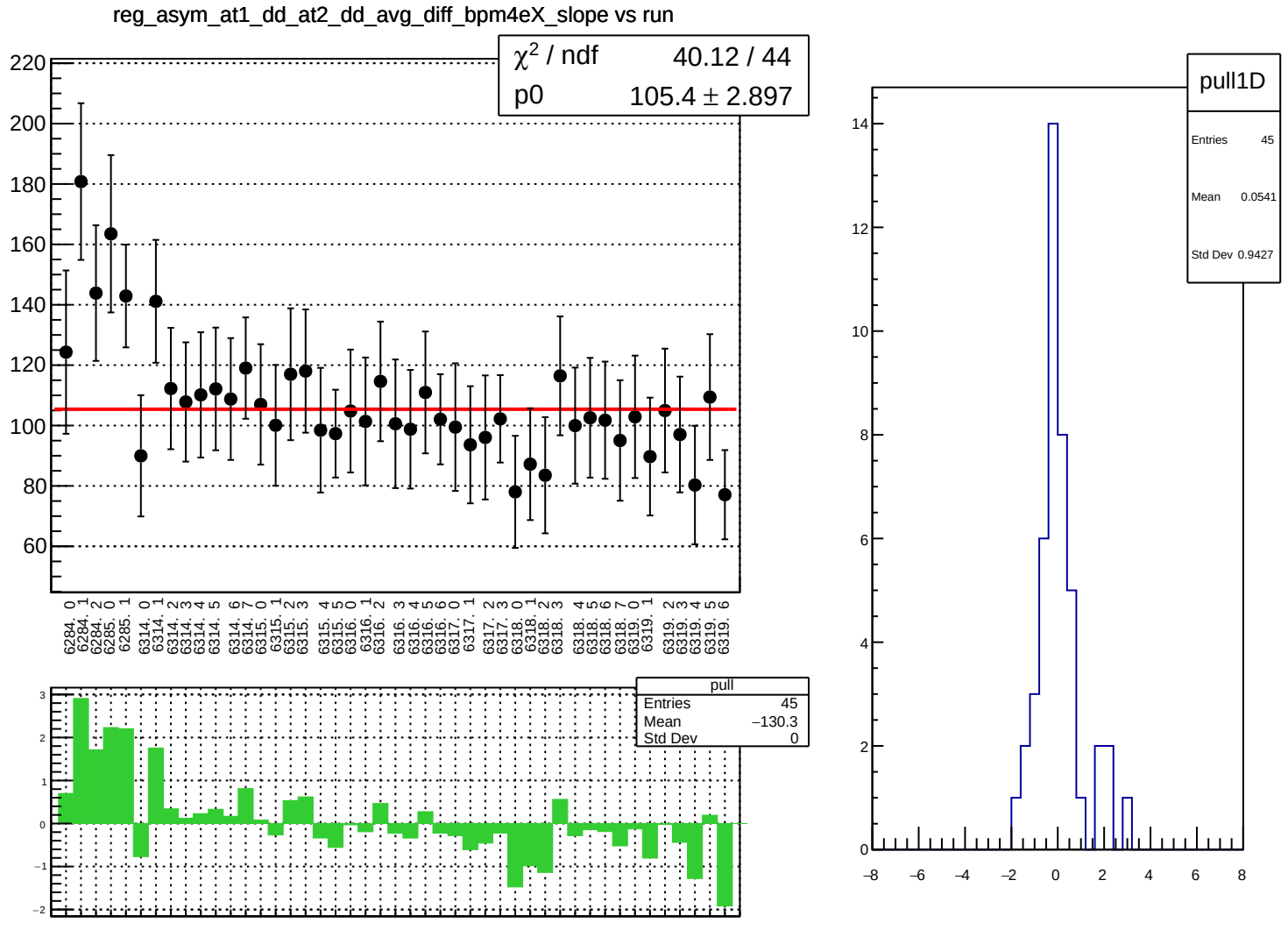

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 95.07 / 44
p0 28.4 ± 0.1625
pull
Entries 45
Mean −120.7
Std Dev 0

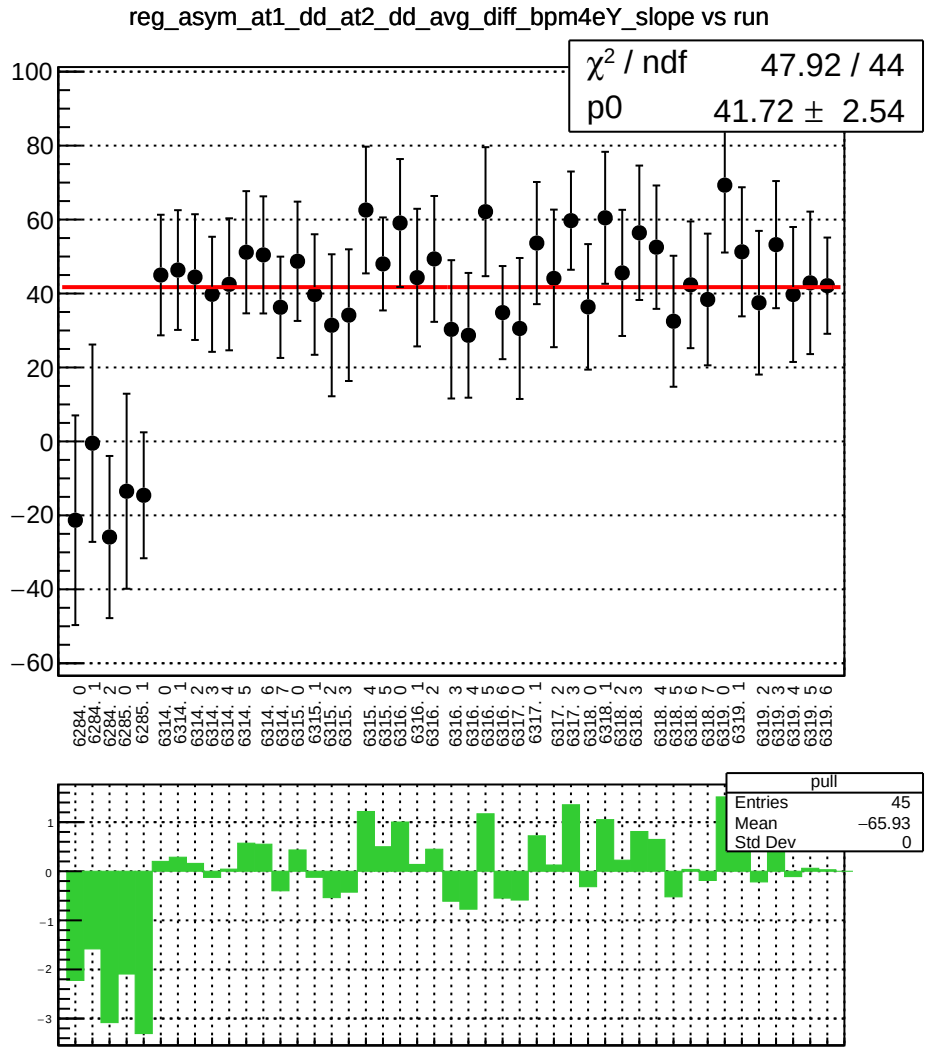

pull1D
Entries 45
Mean 0.07586
Std Dev 1.452

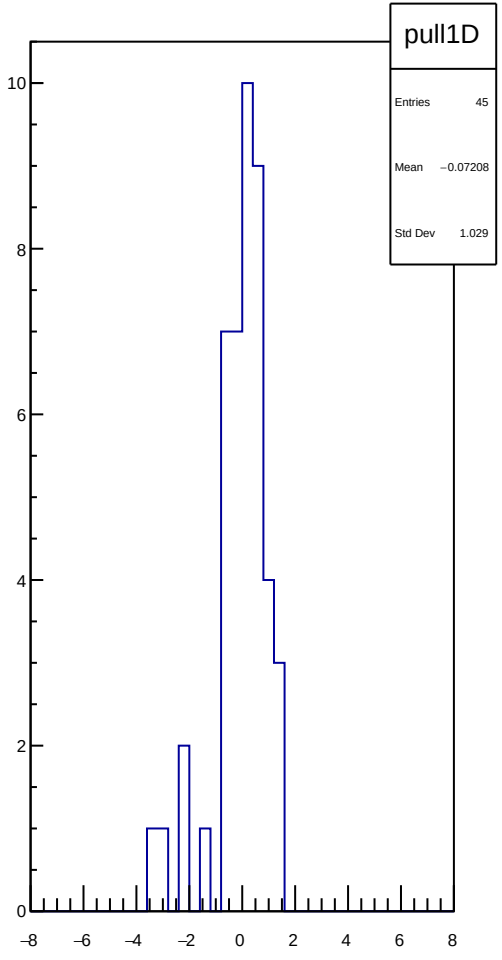

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 40.08 / 44
p0 −30.21± 2.827
pull
Entries 45
Mean −130.3
Std Dev 0
pull1D
Entries 45
Mean −0.05389
Std Dev 0.9422

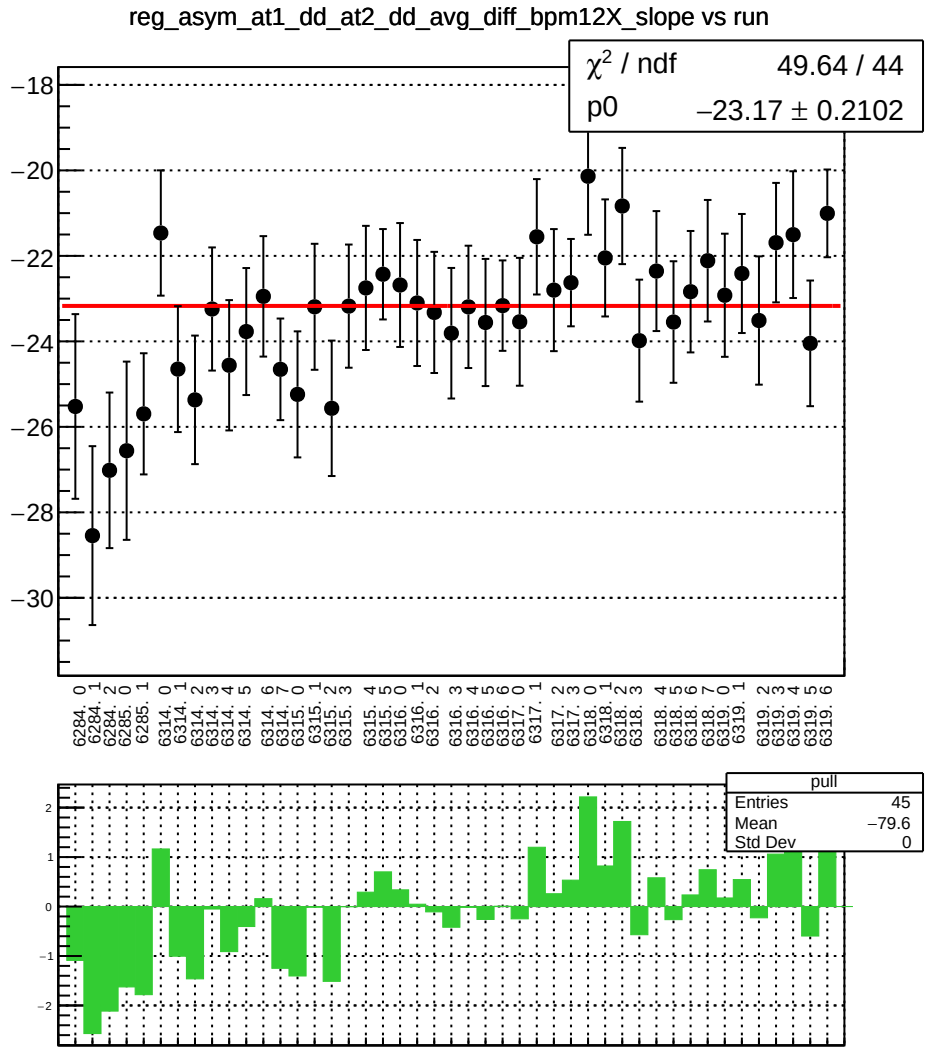

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.12 / 44
p0 −15.07 ± 2.06
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −50.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

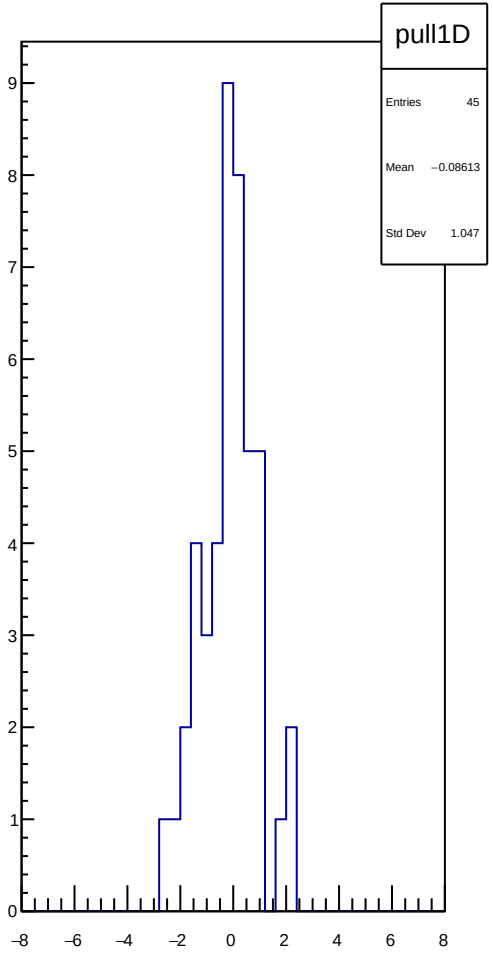

pull1D
Entries 45
Mean 0.05566
Std Dev 0.7885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

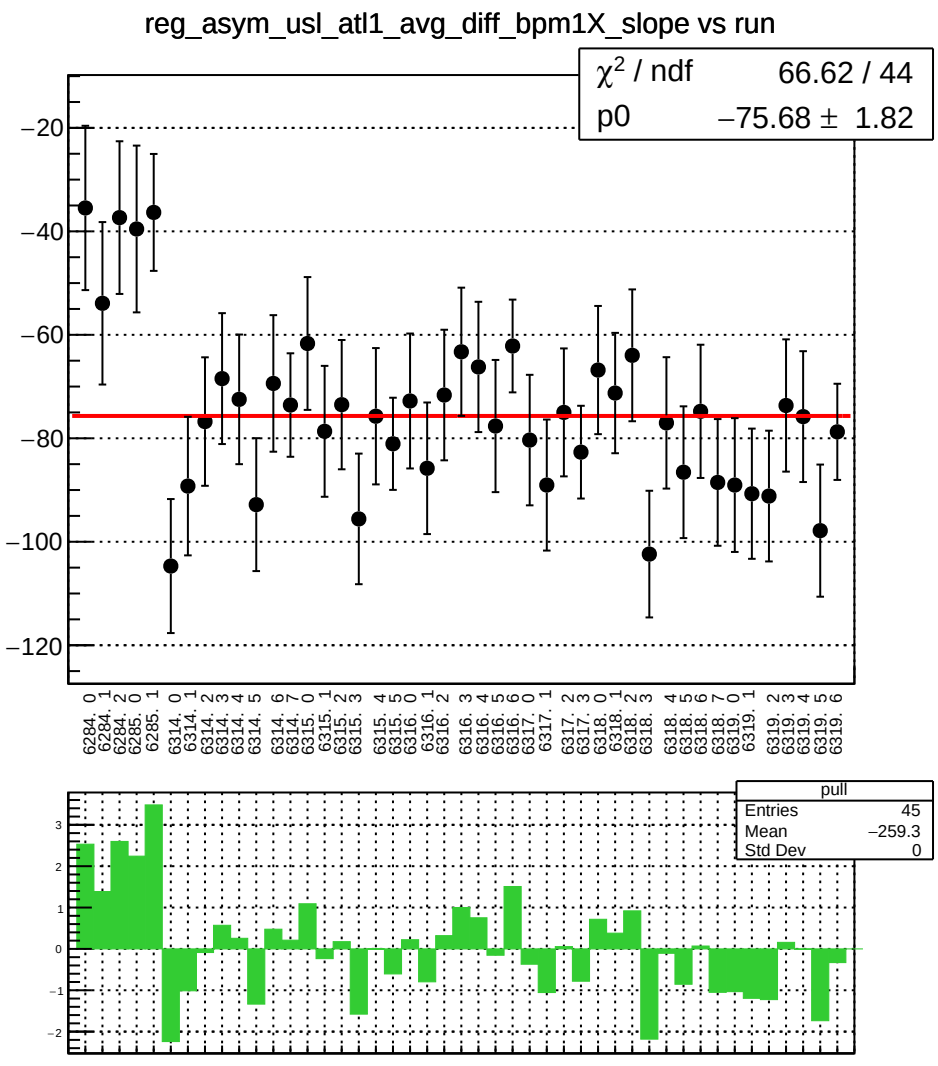

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.12 / 44
p0 105.4 ± 2.897
pull
Entries 45
Mean −130.3
Std Dev 0
pull1D
Entries 45
Mean 0.0541
Std Dev 0.9427

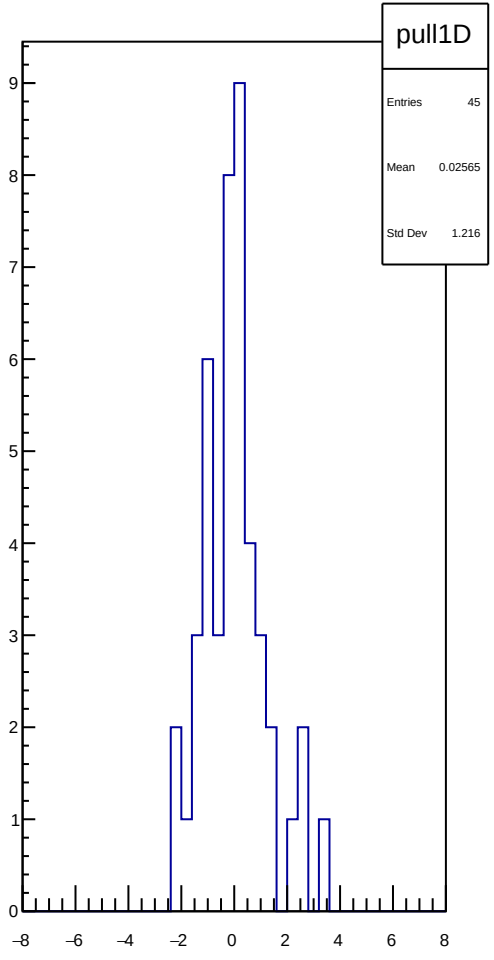

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.92 / 44
p0 41.72 ± 2.54
pull
Entries 45
Mean −65.93
Std Dev 0

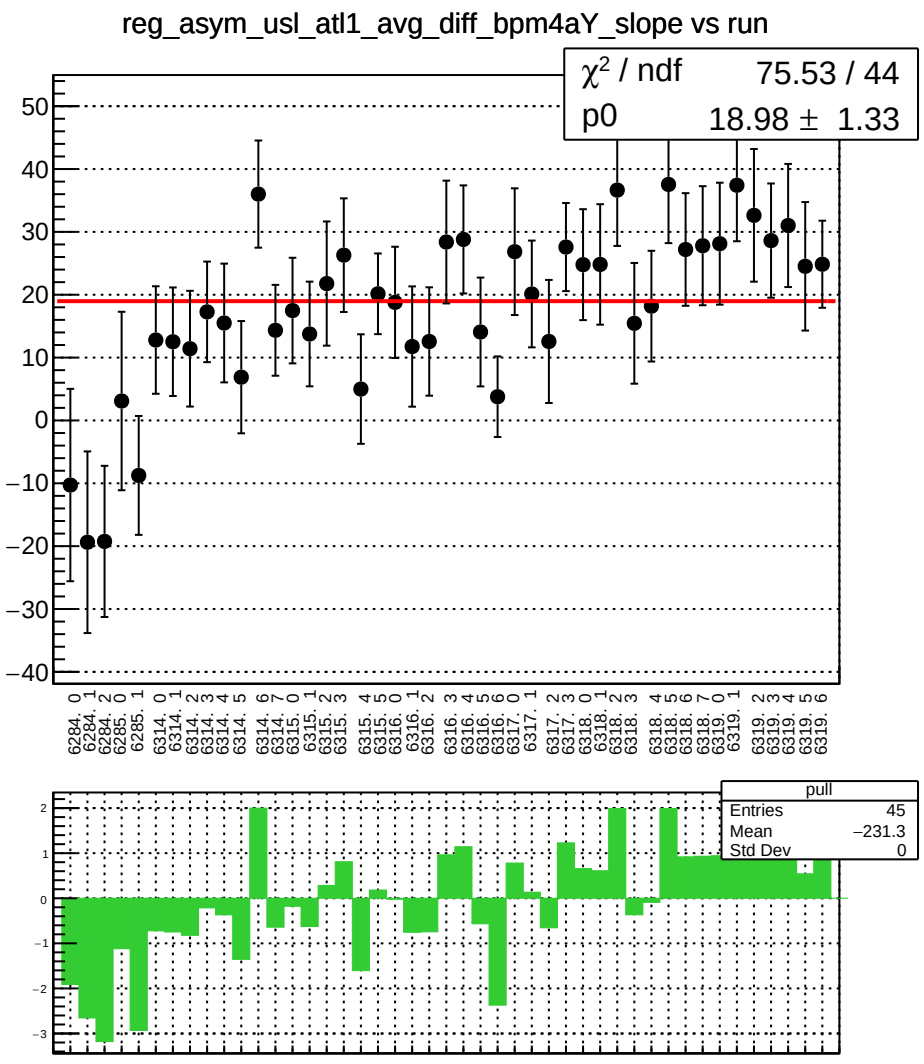

pull1D
Entries 45
Mean −0.07208
Std Dev 1.029

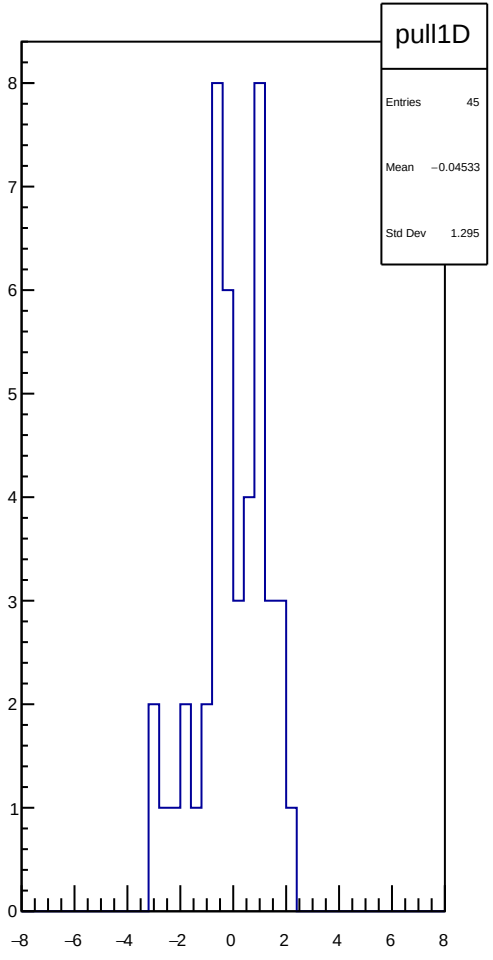

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 49.64 / 44
p0 −23.17 ± 0.2102
pull
Entries 45
Mean −79.6
Std Dev 0

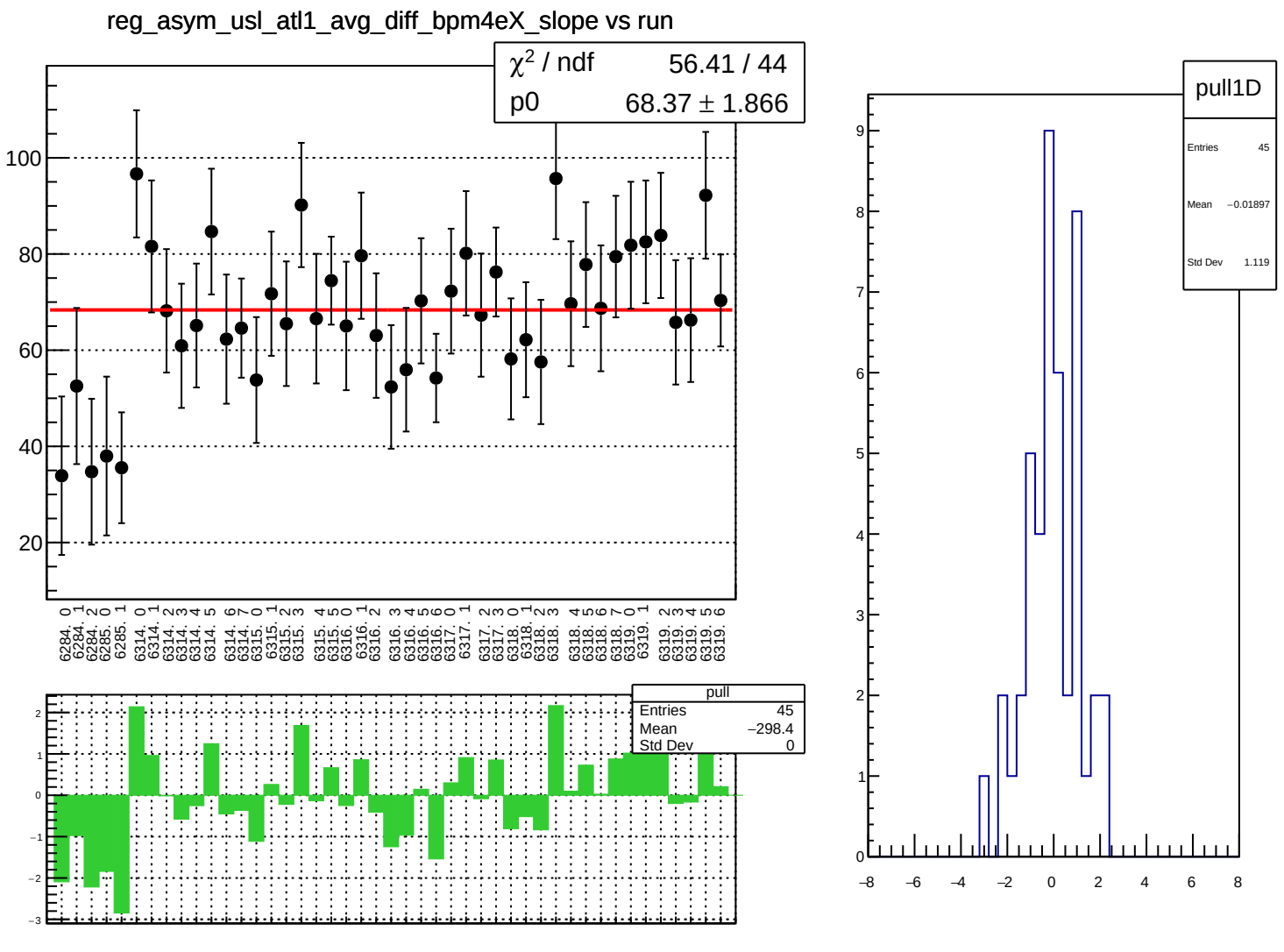

pull1D
Entries 45
Mean −0.08613
Std Dev 1.047

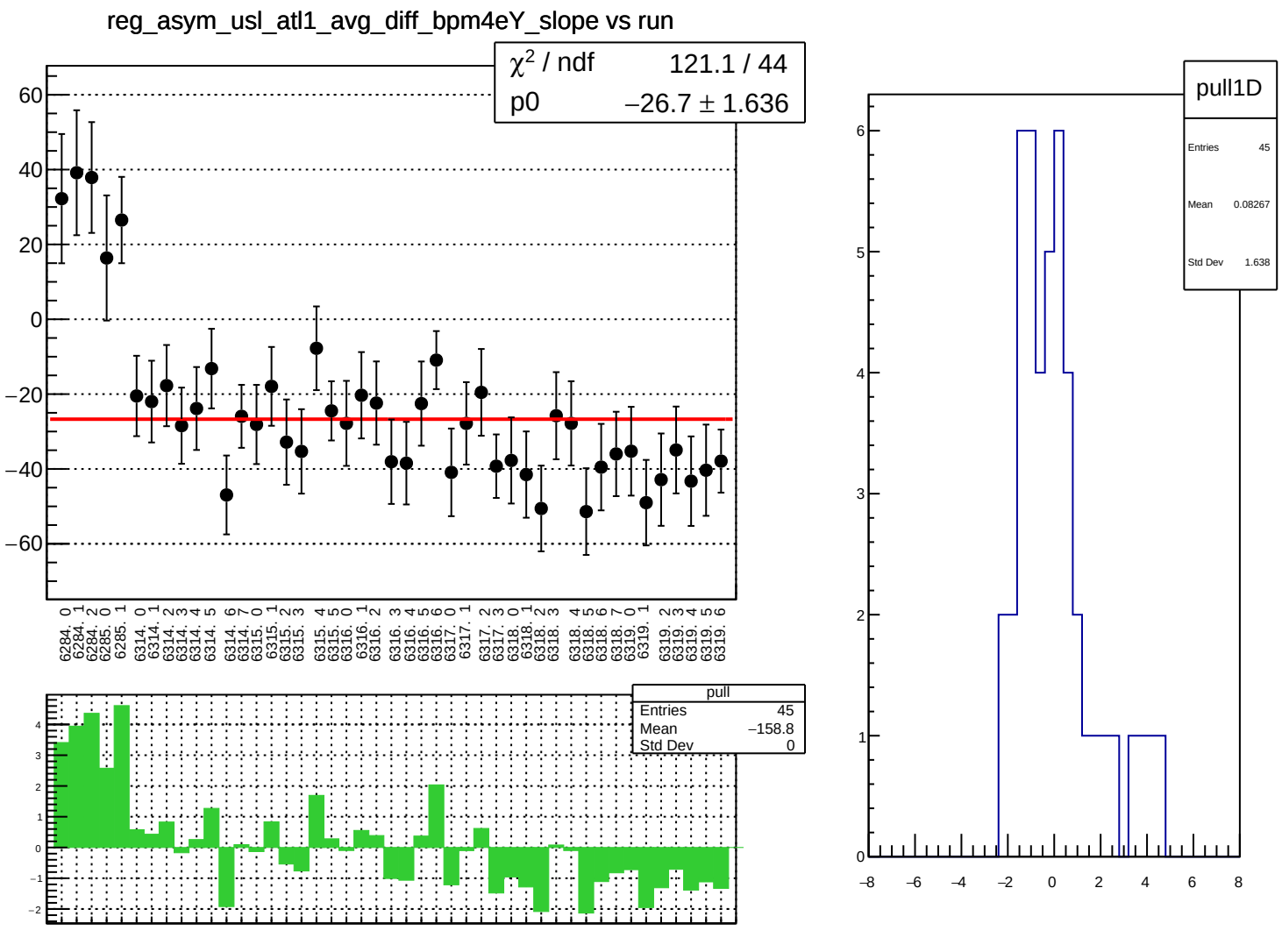

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 66.62 / 44
p0 −75.68 ± 1.82
−20
−40
−60
−80
−100
−120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −259.3
Std Dev 0
3
2
1
0
−1
−2

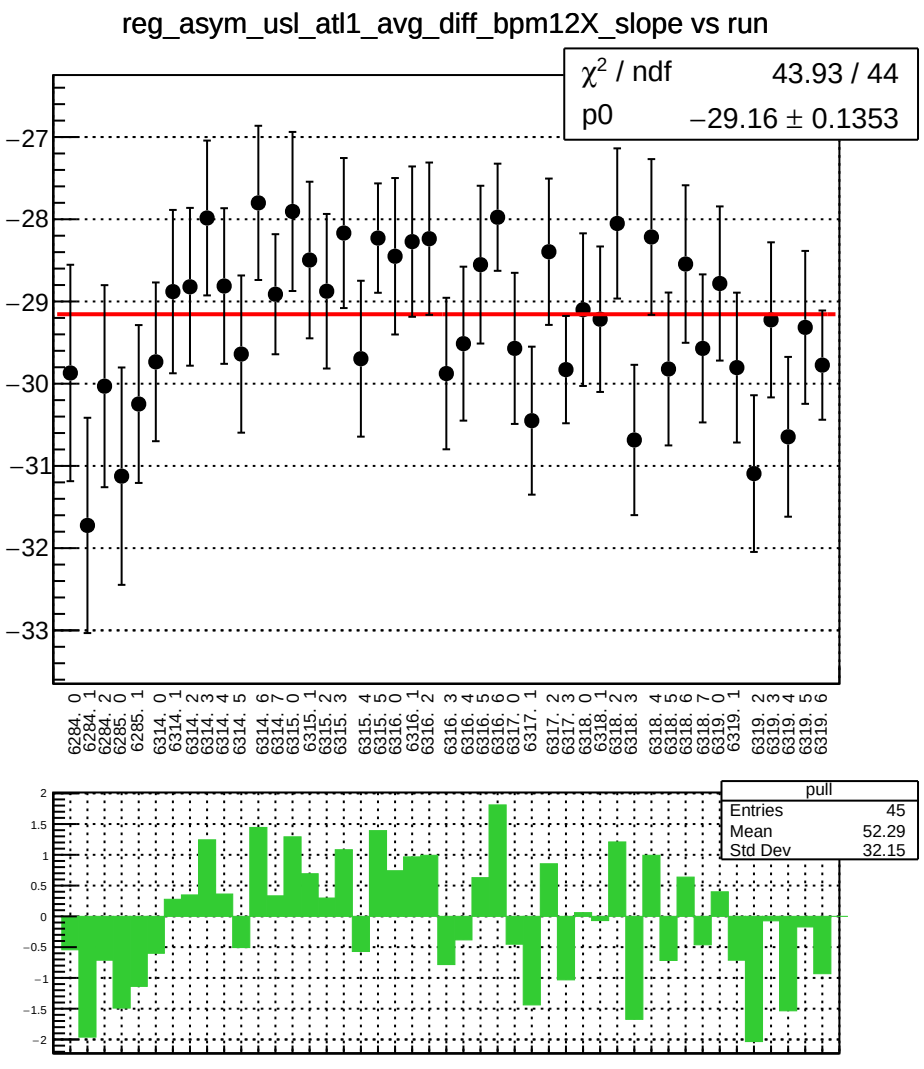

pull1D
Entries 45
Mean 0.02565
Std Dev 1.216
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

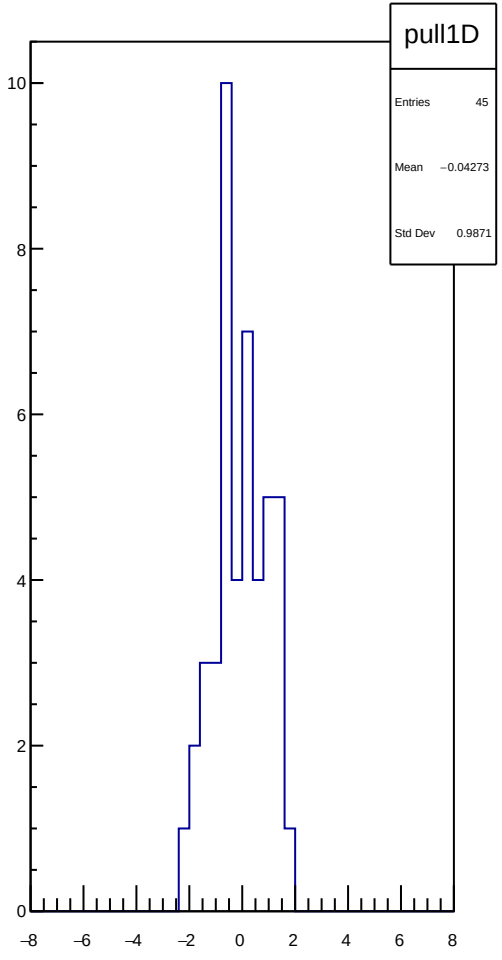

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.53 / 44
p0 18.98 ± 1.33
pull
Entries 45
Mean −231.3
Std Dev 0

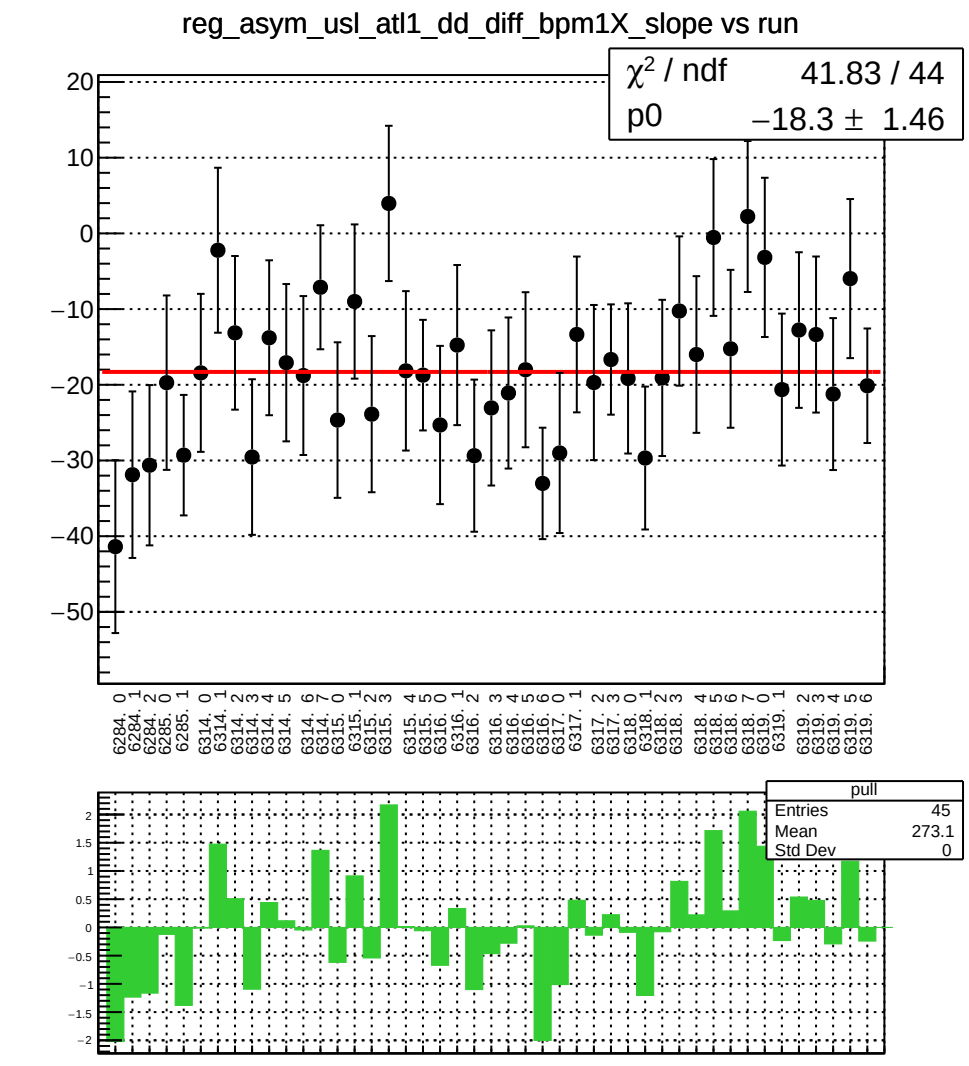

pull1D
Entries 45
Mean −0.04533
Std Dev 1.295

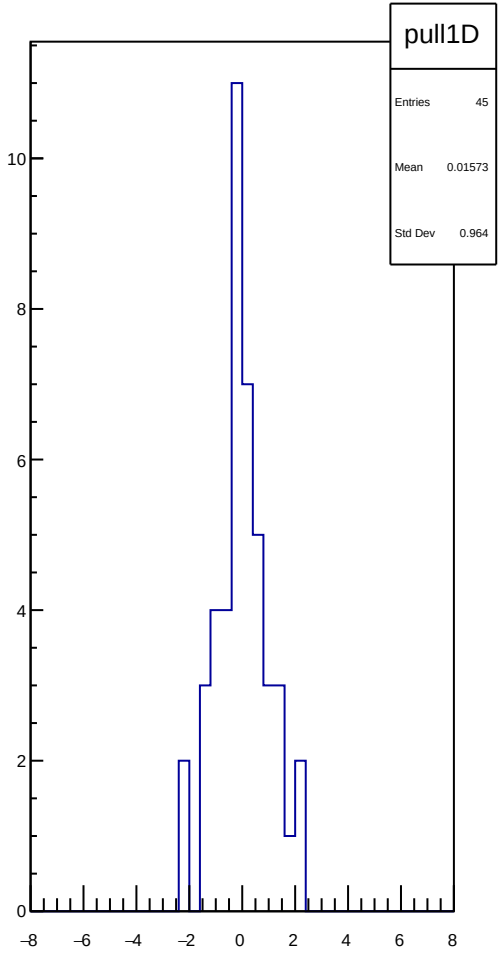

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.41 / 44
p0 68.37 ± 1.866
pull
Entries 45
Mean −298.4
Std Dev 0
pull1D
Entries 45
Mean −0.01897
Std Dev 1.119

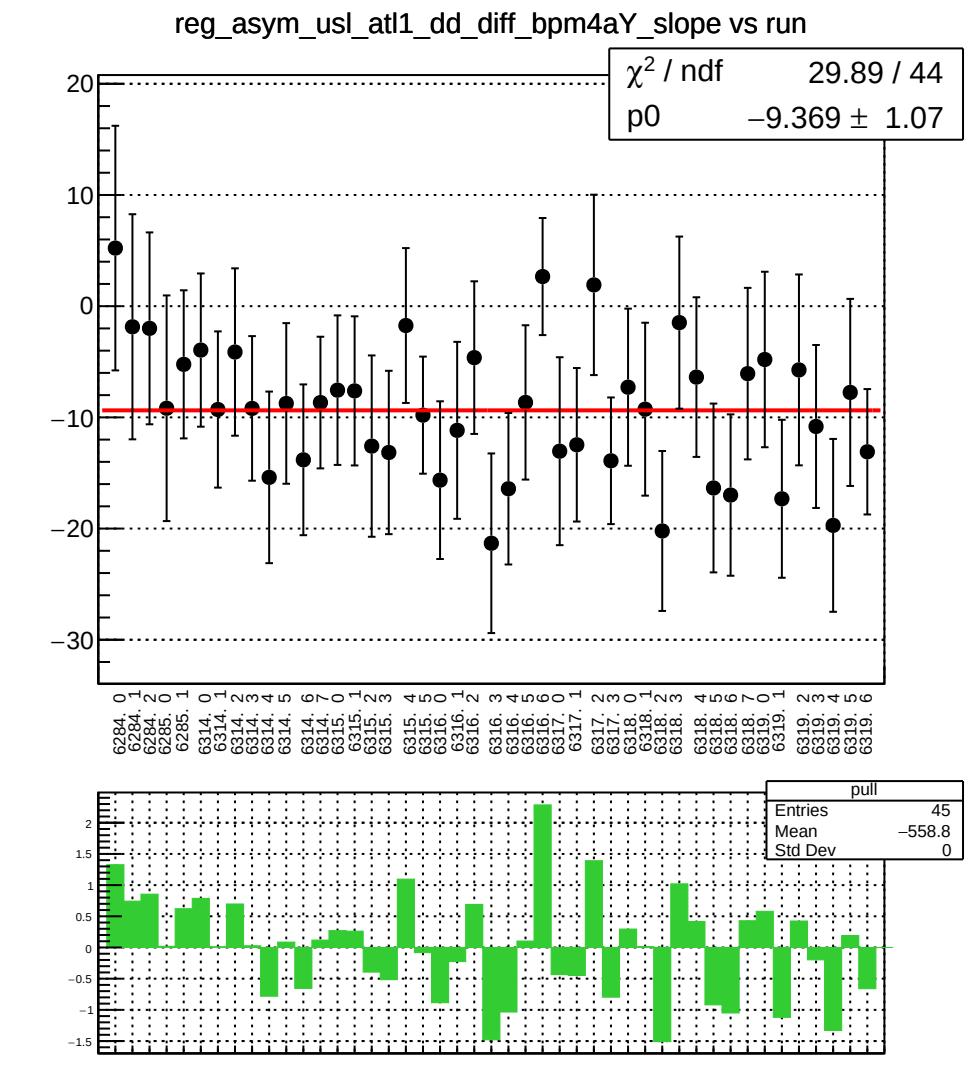

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 121.1 / 44
p0 −26.7 ± 1.636
pull
Entries 45
Mean −158.8
Std Dev 0
pull1D
Entries 45
Mean 0.08267
Std Dev 1.638

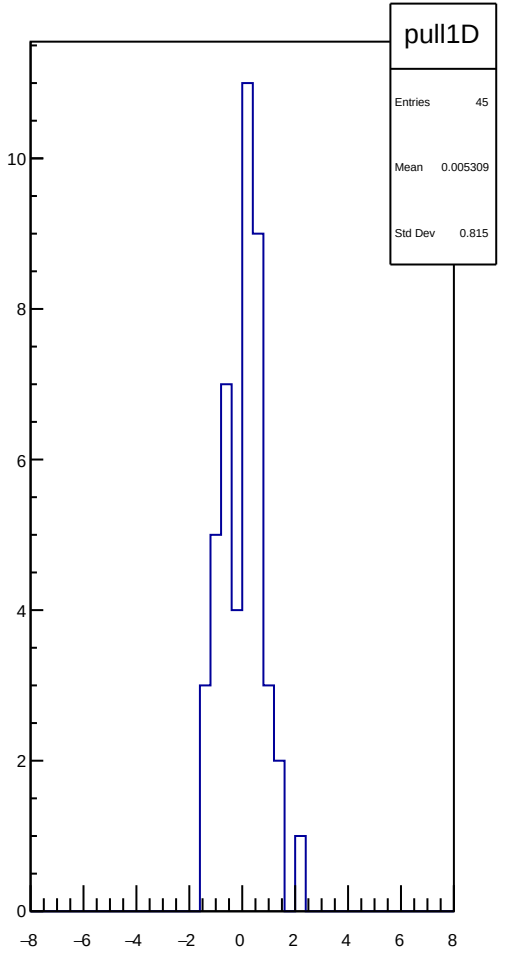

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 43.93 / 44
p0 −29.16 ± 0.1353
pull
Entries 45
Mean 52.29
Std Dev 32.15

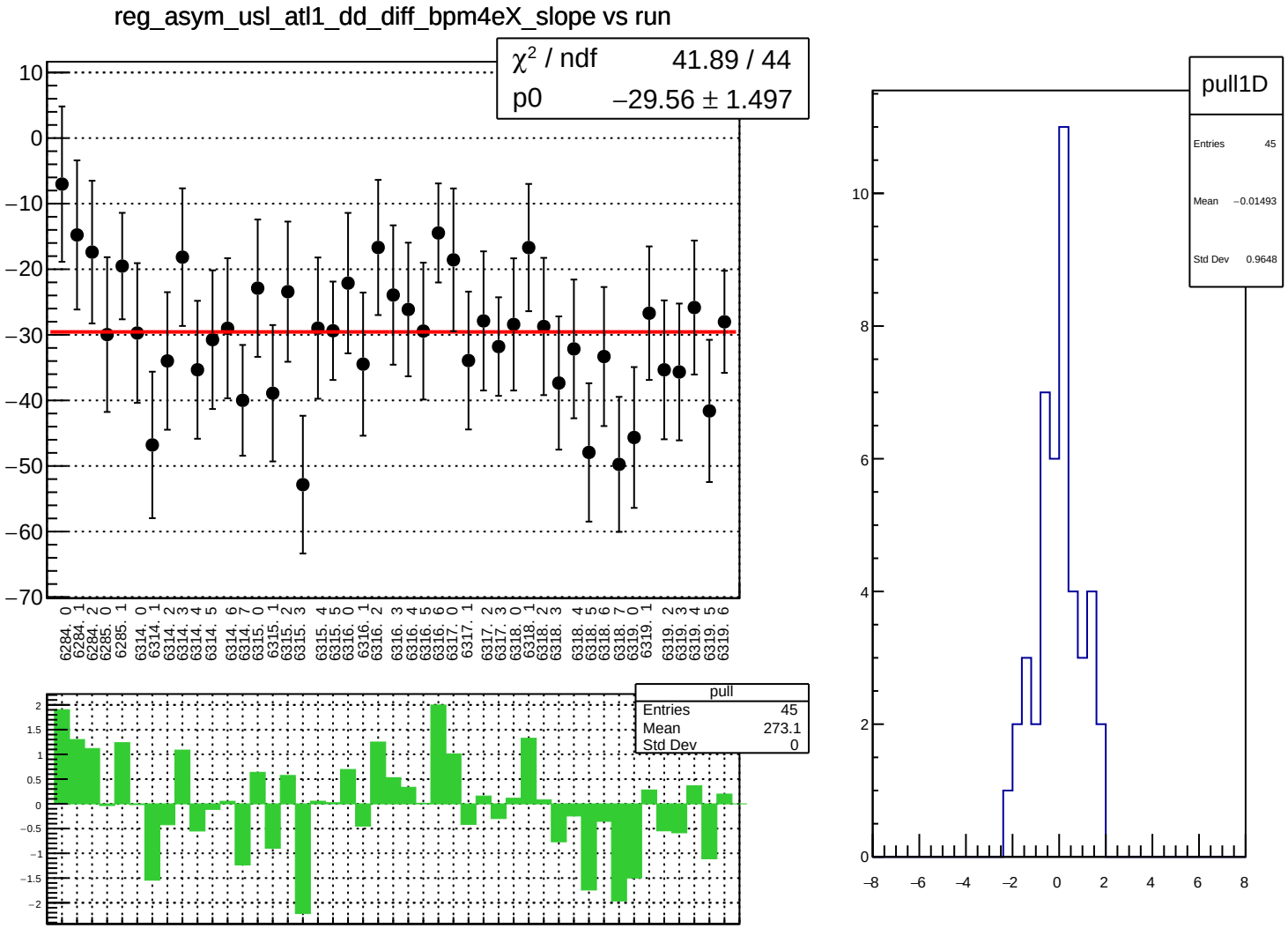

pull1D
Entries 45
Mean −0.04273
Std Dev 0.9871

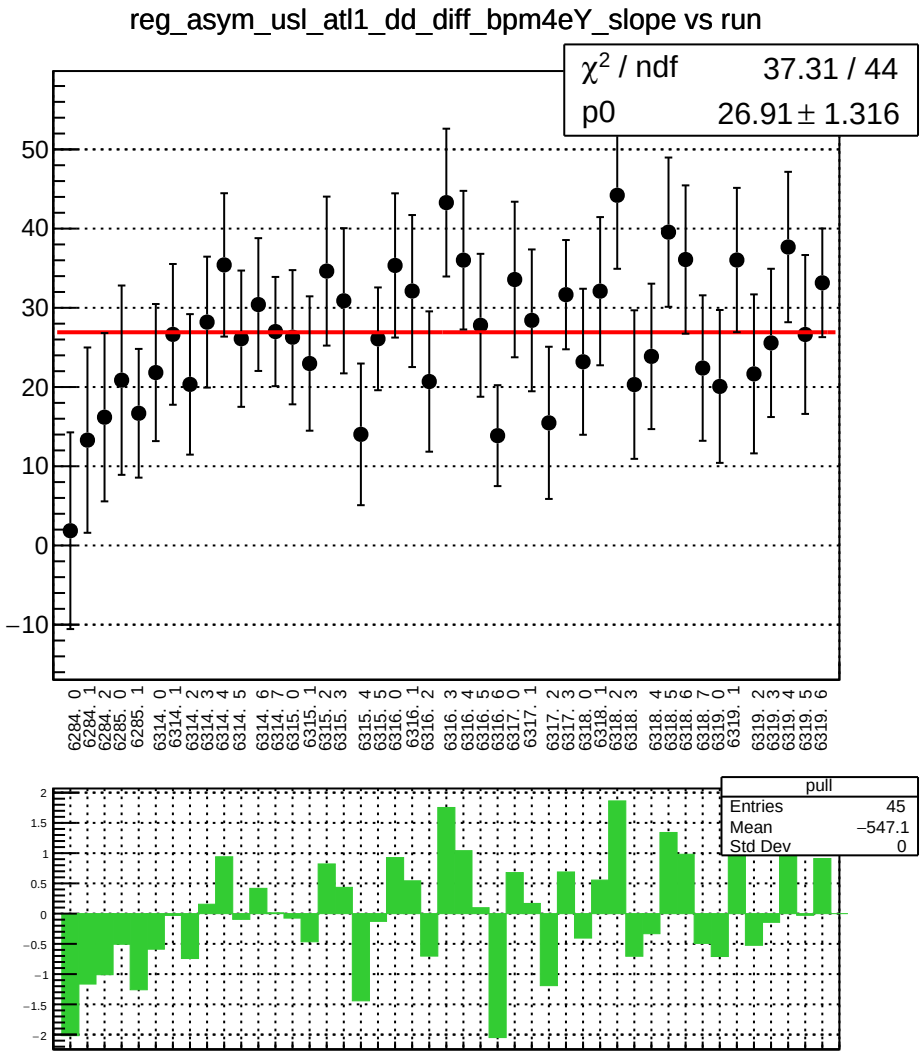

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 41.83 / 44
p0 −18.3 ± 1.46
pull
Entries 45
Mean 273.1
Std Dev 0

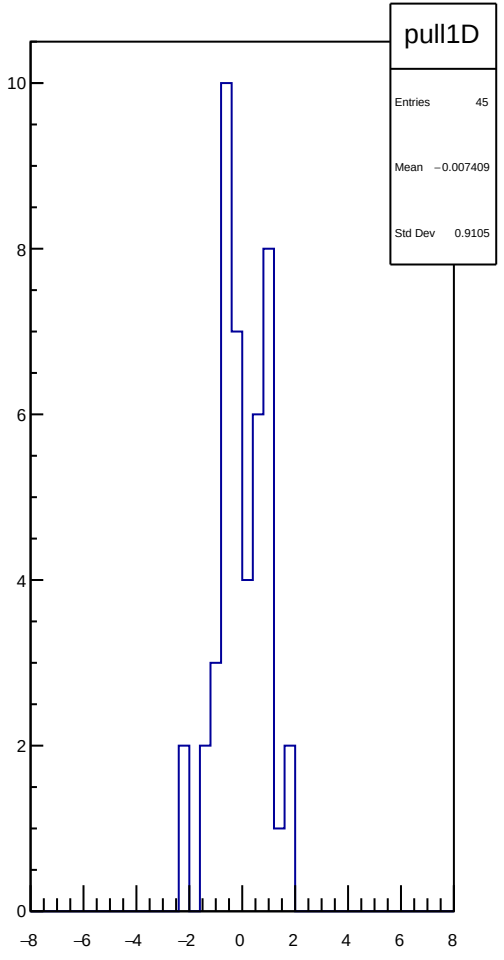

pull1D
Entries 45
Mean 0.01573
Std Dev 0.964

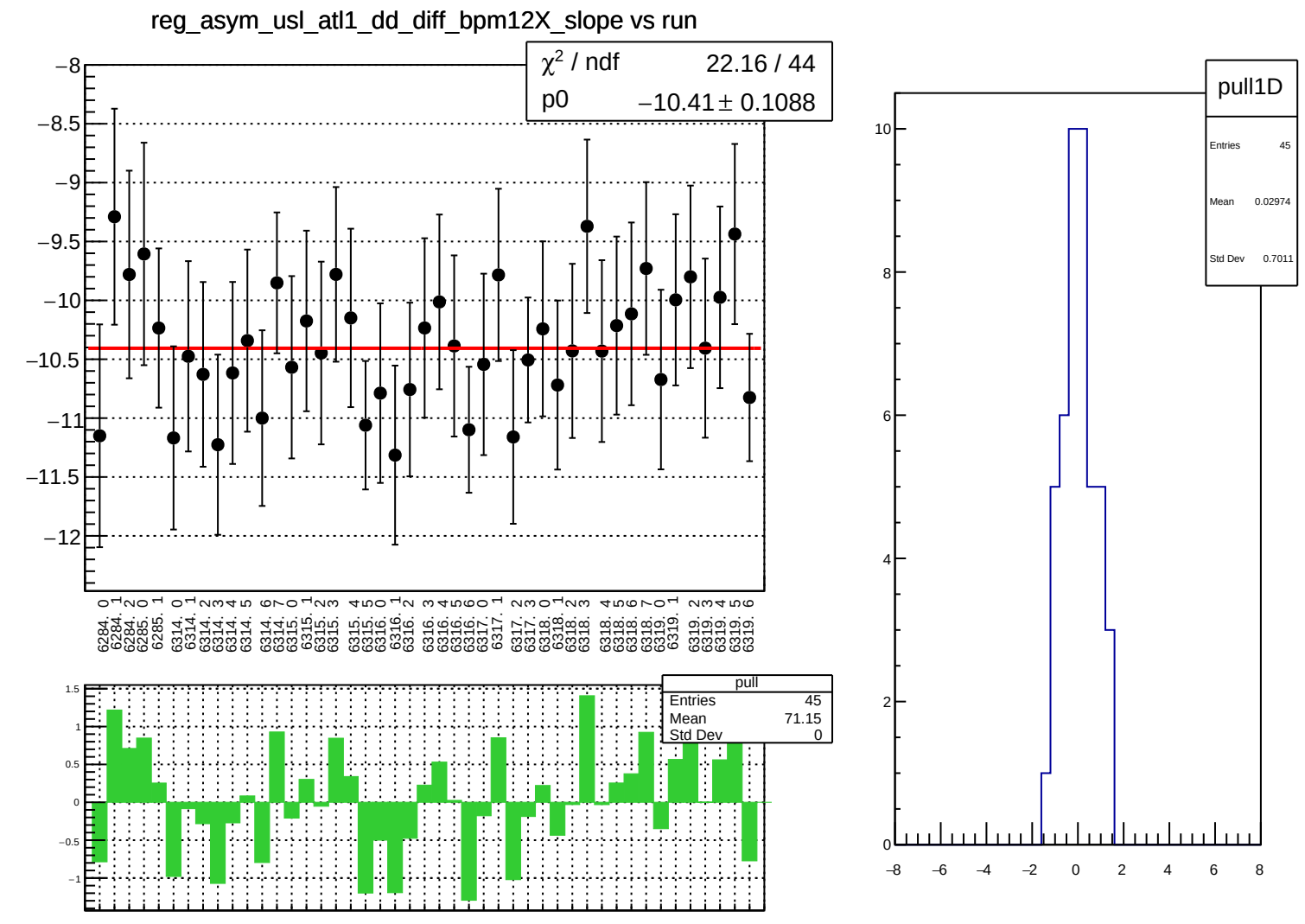

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.89 / 44
p0 −9.369 ± 1.07
pull
Entries 45
Mean −558.8
Std Dev 0

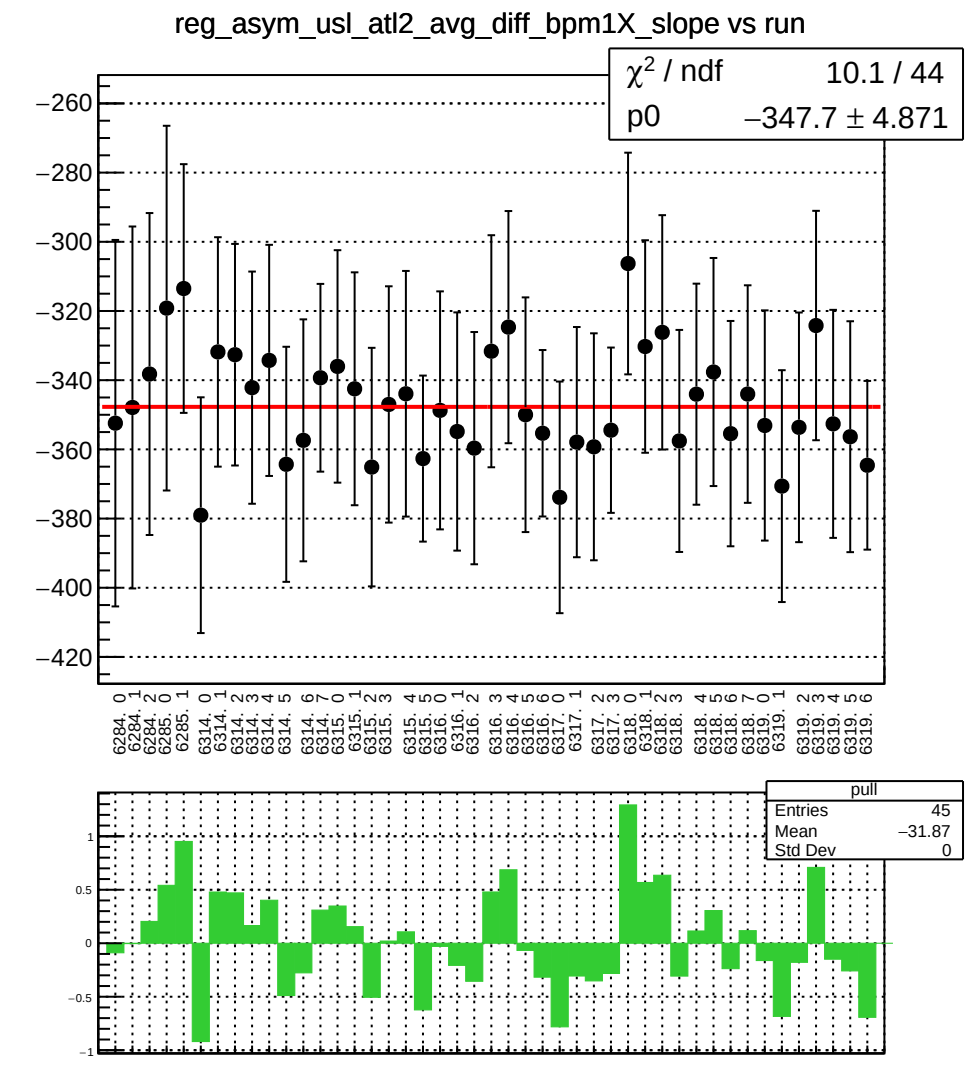

pull1D
Entries 45
Mean 0.005309
Std Dev 0.815

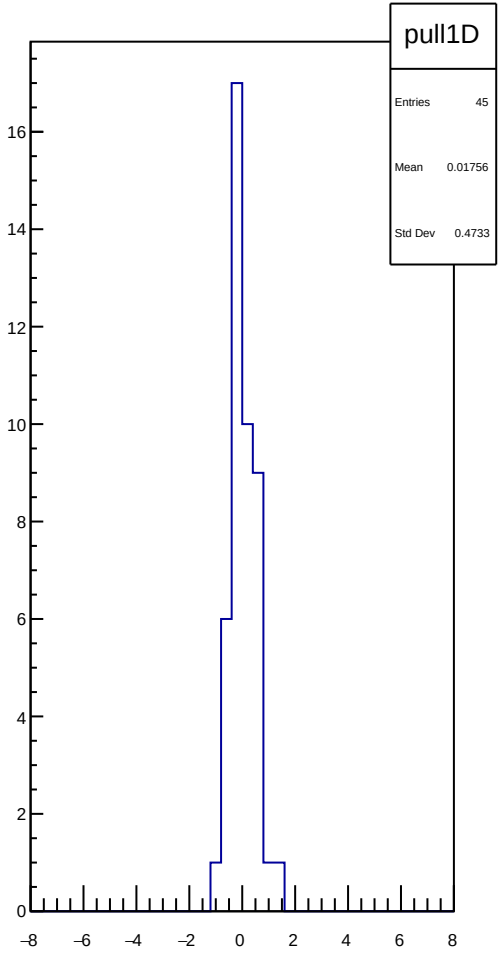

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.89 / 44
p0 −29.56 ± 1.497
pull
Entries 45
Mean 273.1
Std Dev 0
pull1D
Entries 45
Mean −0.01493
Std Dev 0.9648

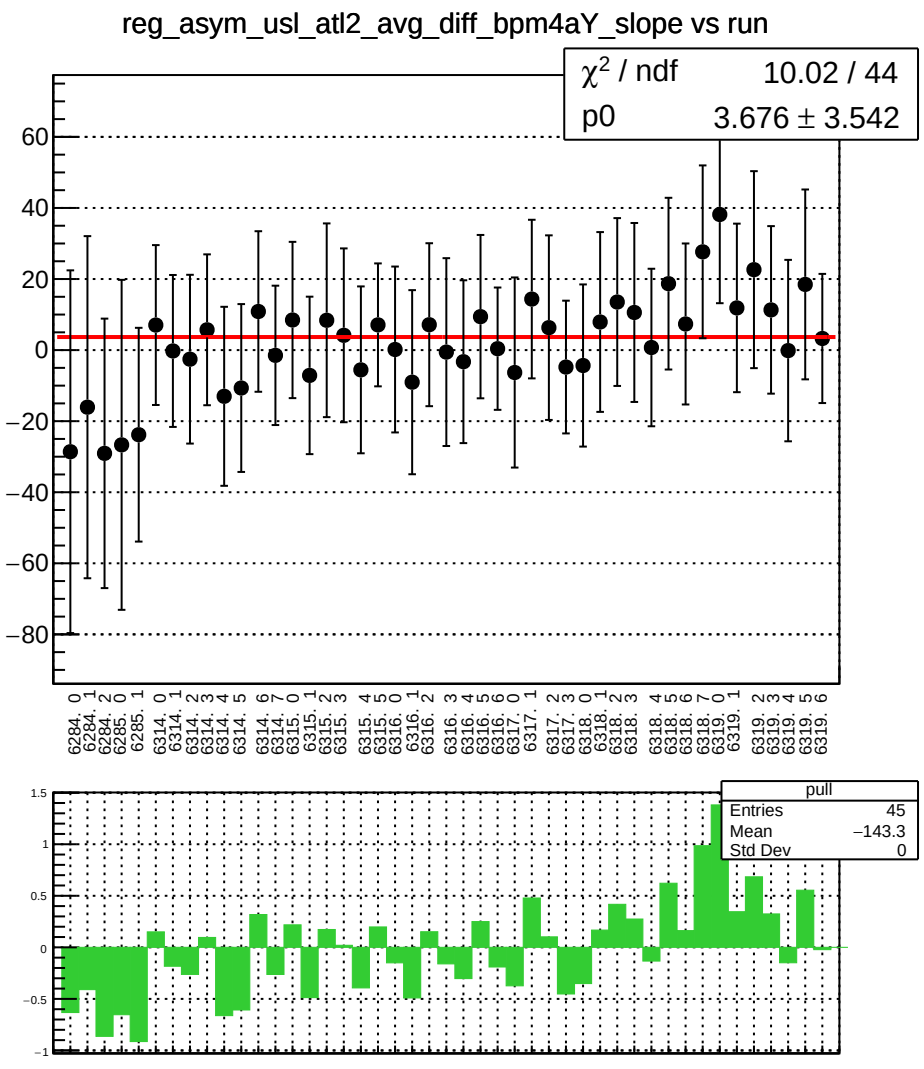

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.31 / 44
p0 26.91 ± 1.316
pull
Entries 45
Mean −547.1
Std Dev 0

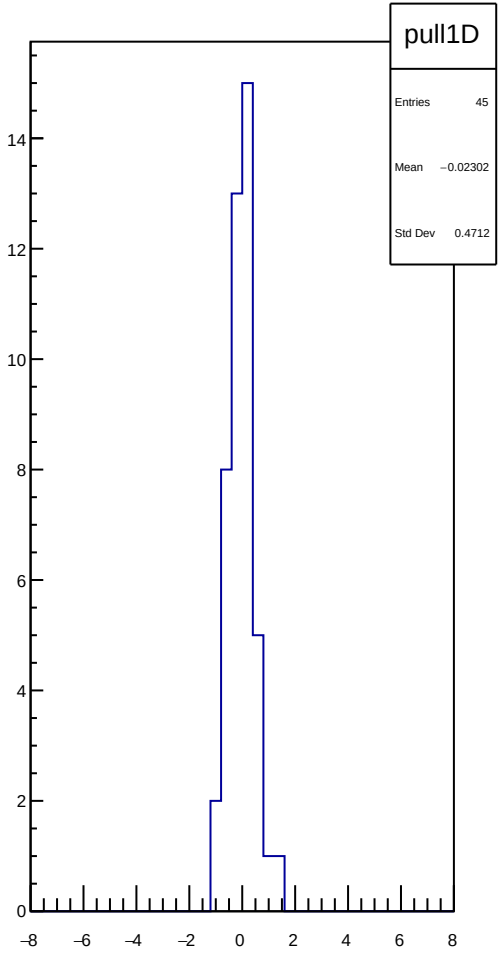

pull1D
Entries 45
Mean −0.007409
Std Dev 0.9105

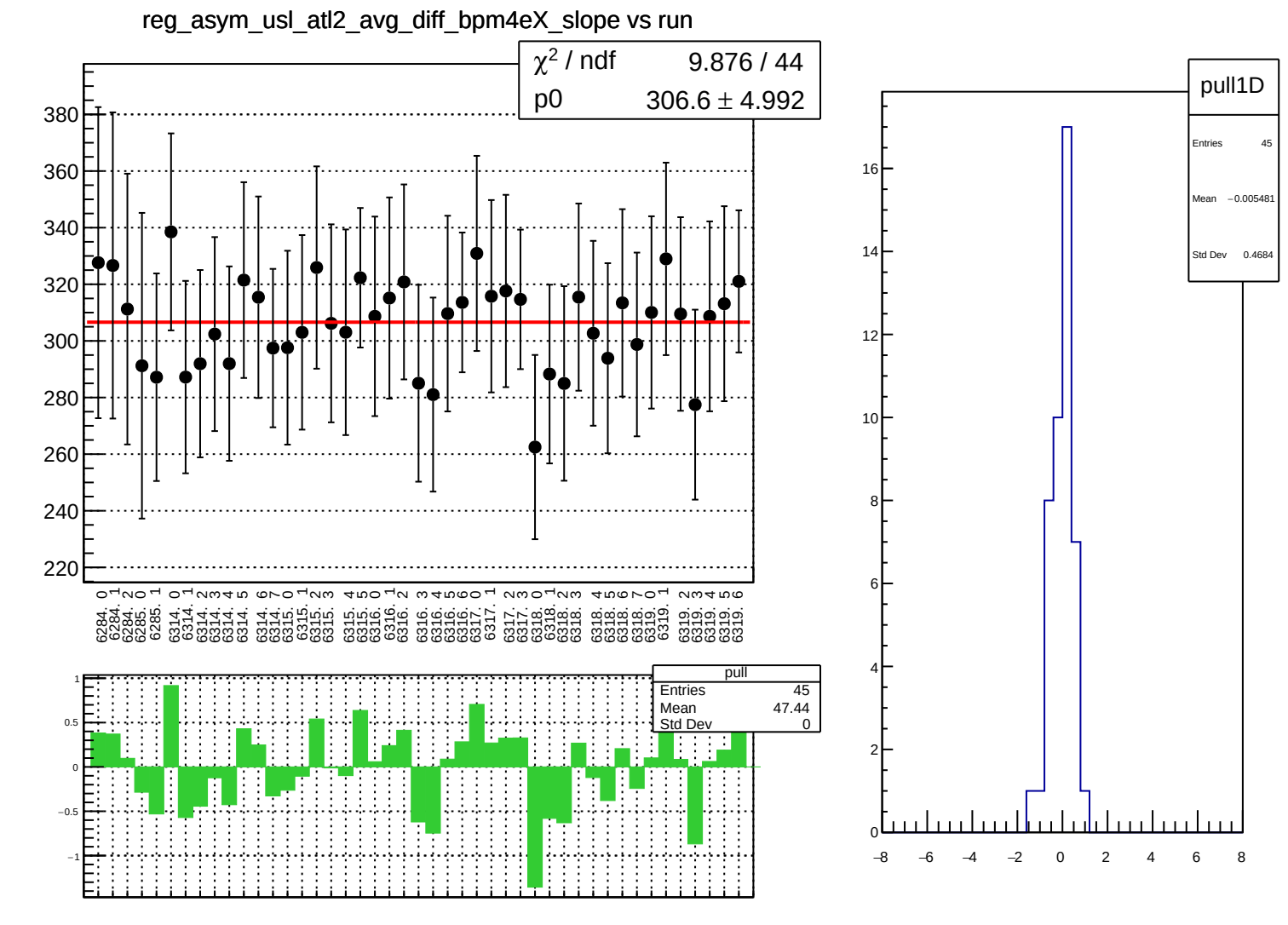

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 22.16 / 44
p0 −10.41 ± 0.1088
pull
Entries 45
Mean 71.15
Std Dev 0
pull1D
Entries 45
Mean 0.02974
Std Dev 0.7011

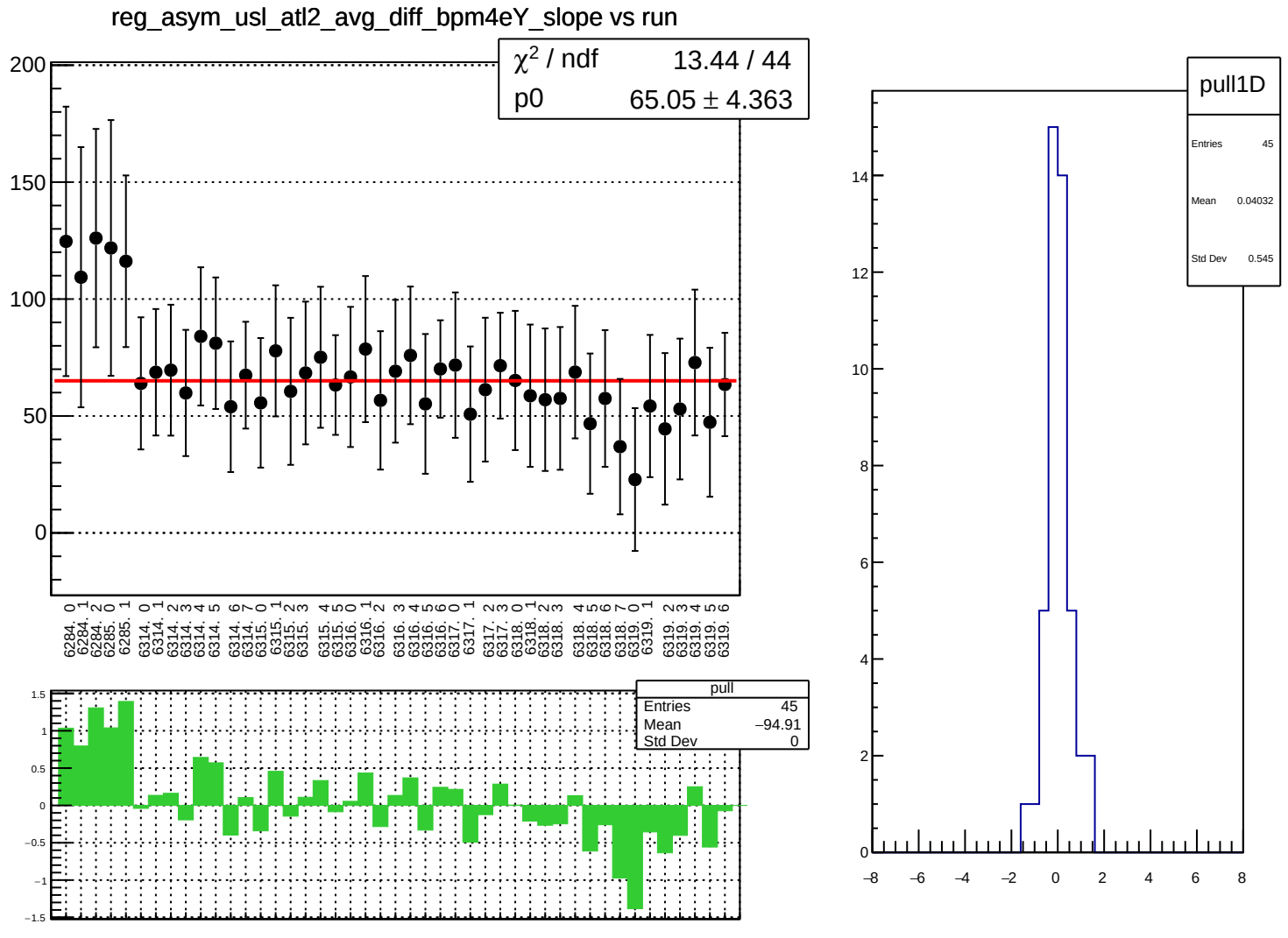

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.1 / 44
p0 −347.7 ± 4.871
pull
Entries 45
Mean −31.87
Std Dev 0

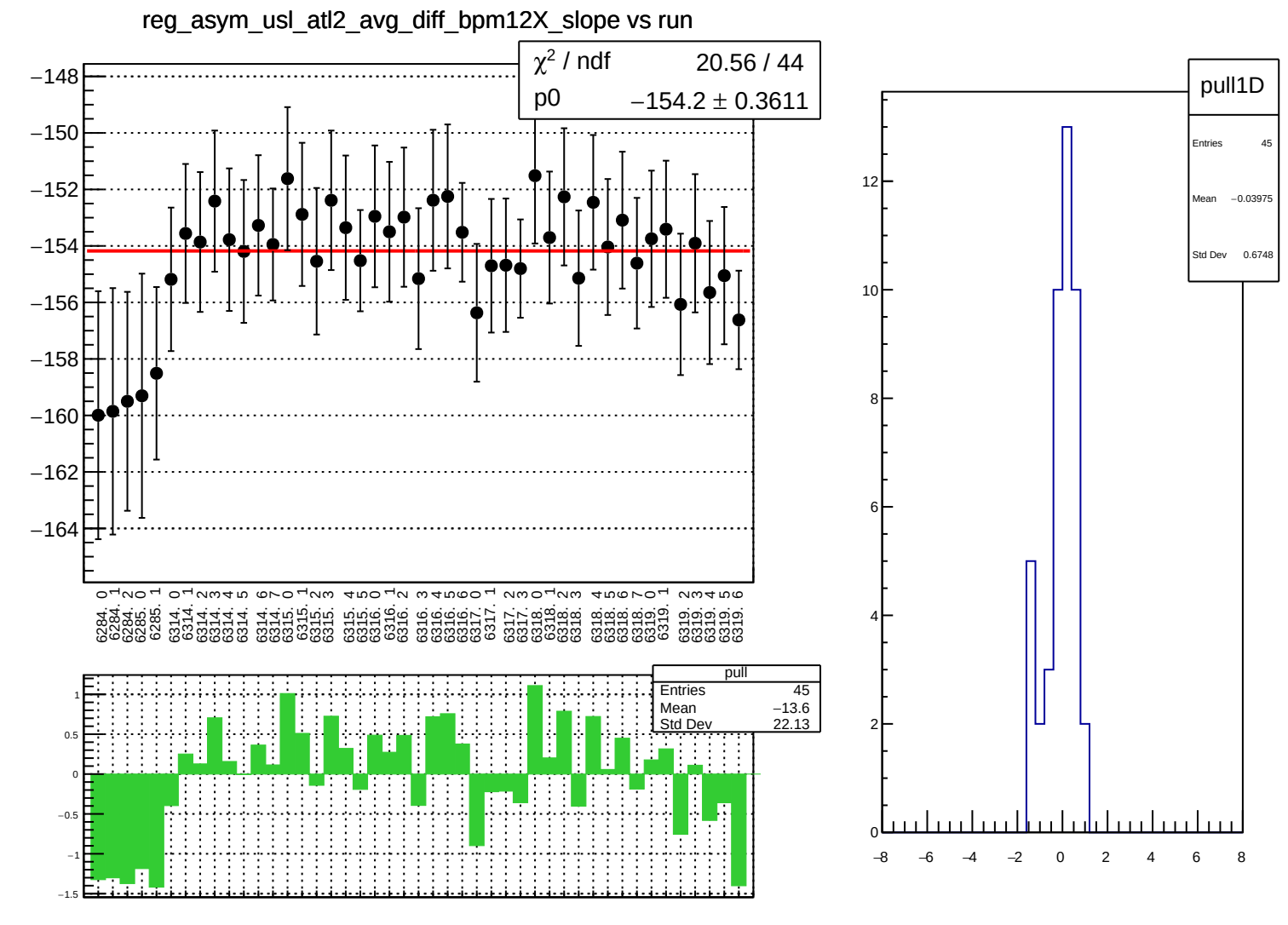

pull1D
Entries 45
Mean 0.01756
Std Dev 0.4733

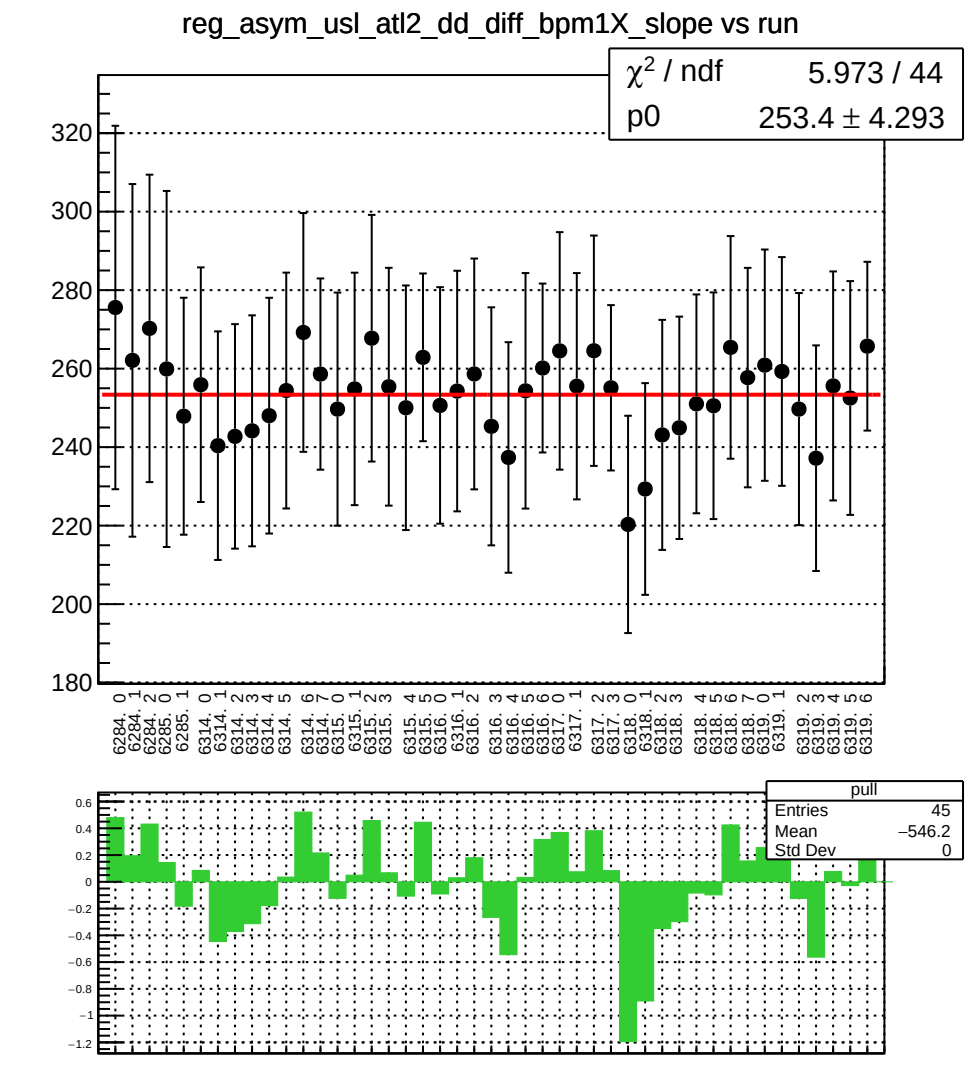

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.02 / 44
p0 3.676 ± 3.542
pull
Entries 45
Mean −143.3
Std Dev 0

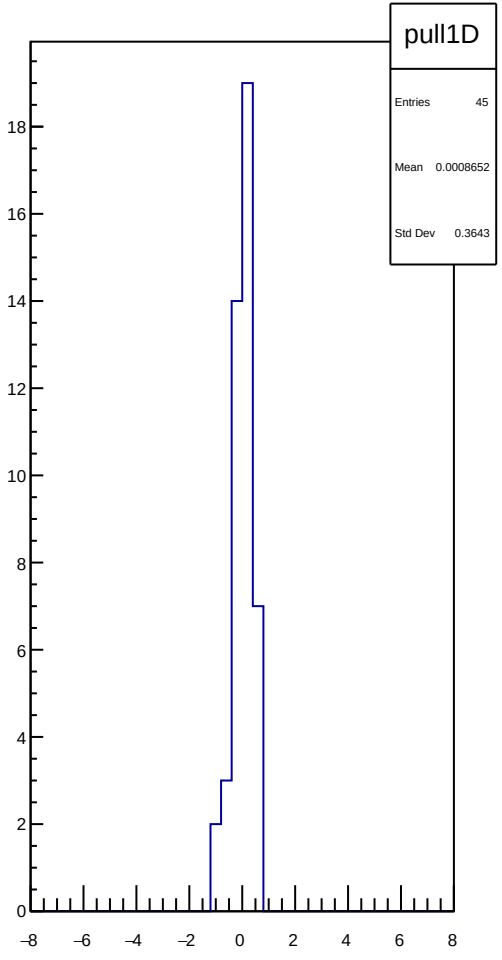

pull1D
Entries 45
Mean −0.02302
Std Dev 0.4712

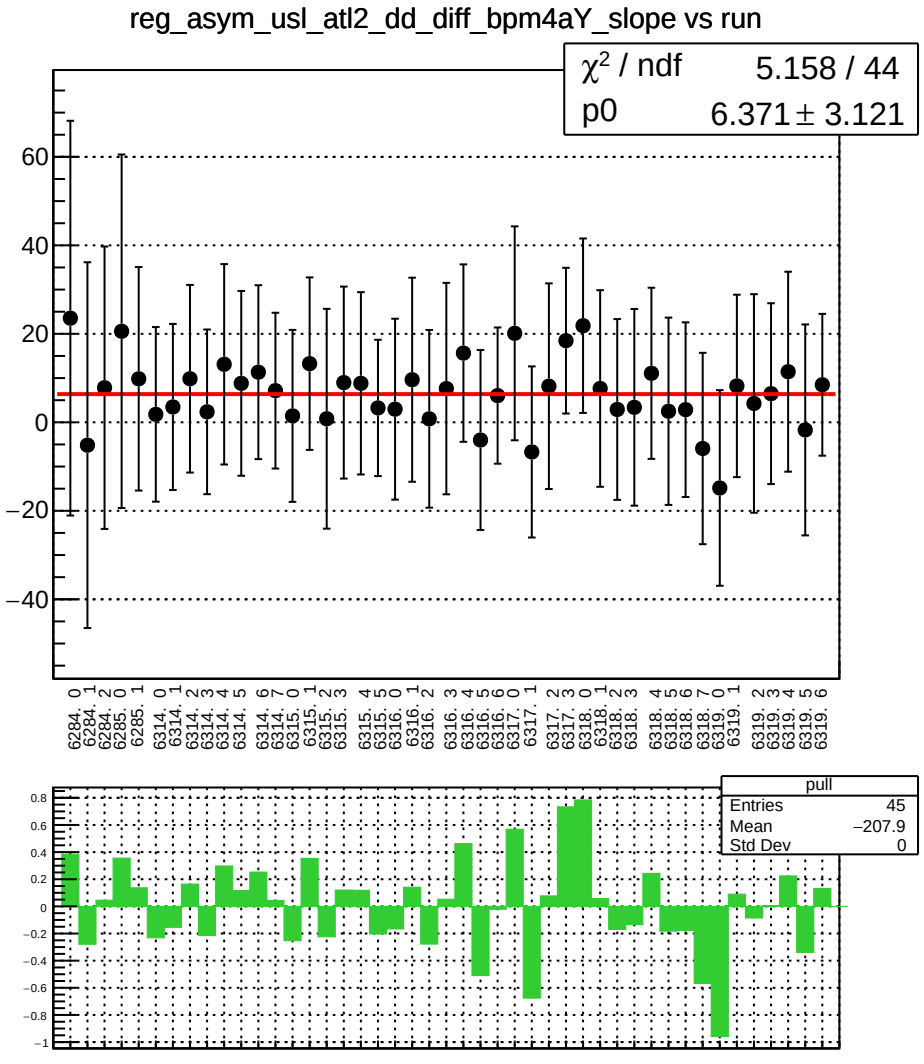

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.876 / 44
p0 306.6 ± 4.992
pull
Entries 45
Mean 47.44
Std Dev 0
pull1D
Entries 45
Mean −0.005481
Std Dev 0.4684

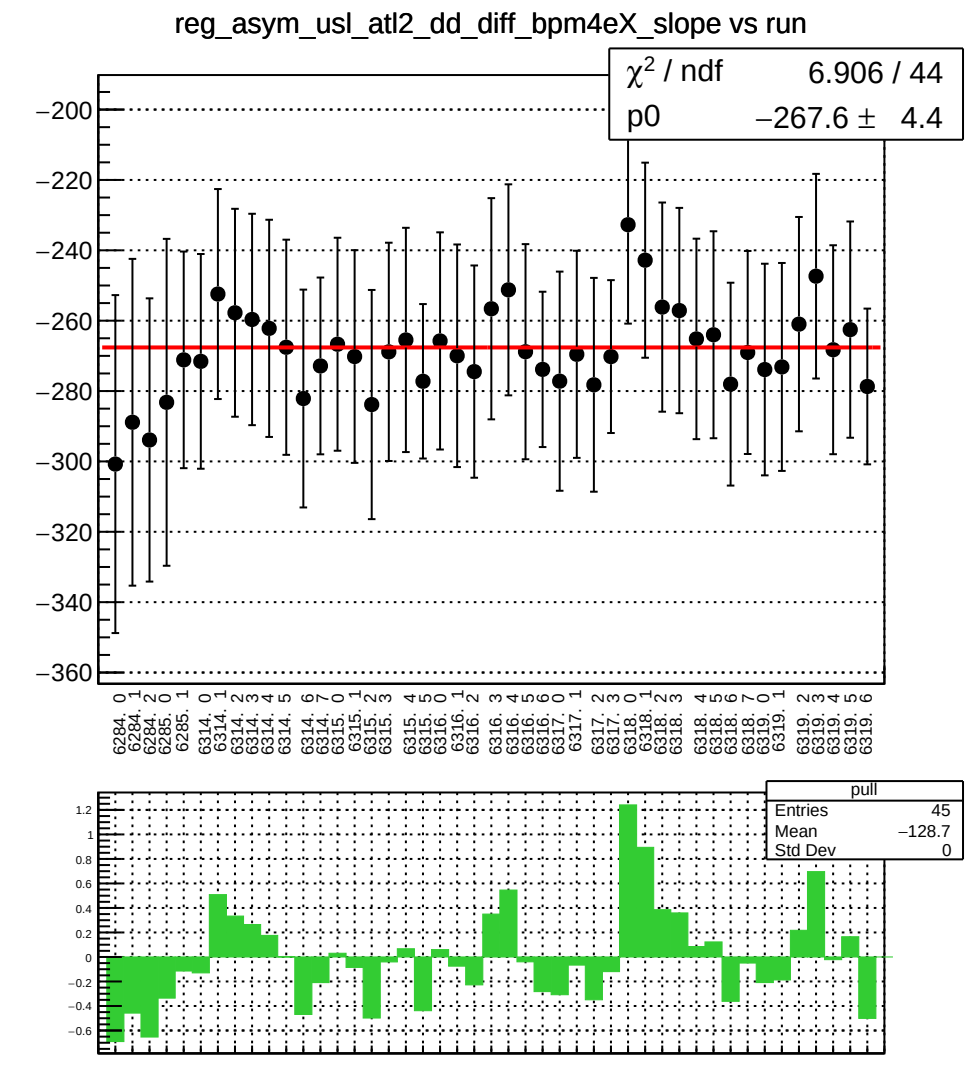

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.44 / 44
p0 65.05 ± 4.363
200
150
100
50
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −94.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04032
Std Dev 0.545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

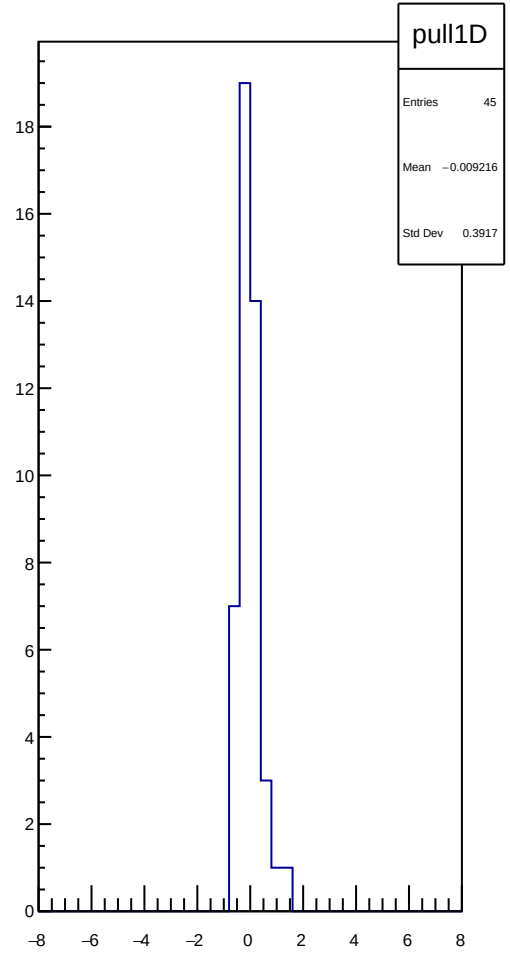

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 20.56 / 44
p0 −154.2 ± 0.3611
pull
Entries 45
Mean −13.6
Std Dev 22.13
pull1D
Entries 45
Mean −0.03975
Std Dev 0.6748

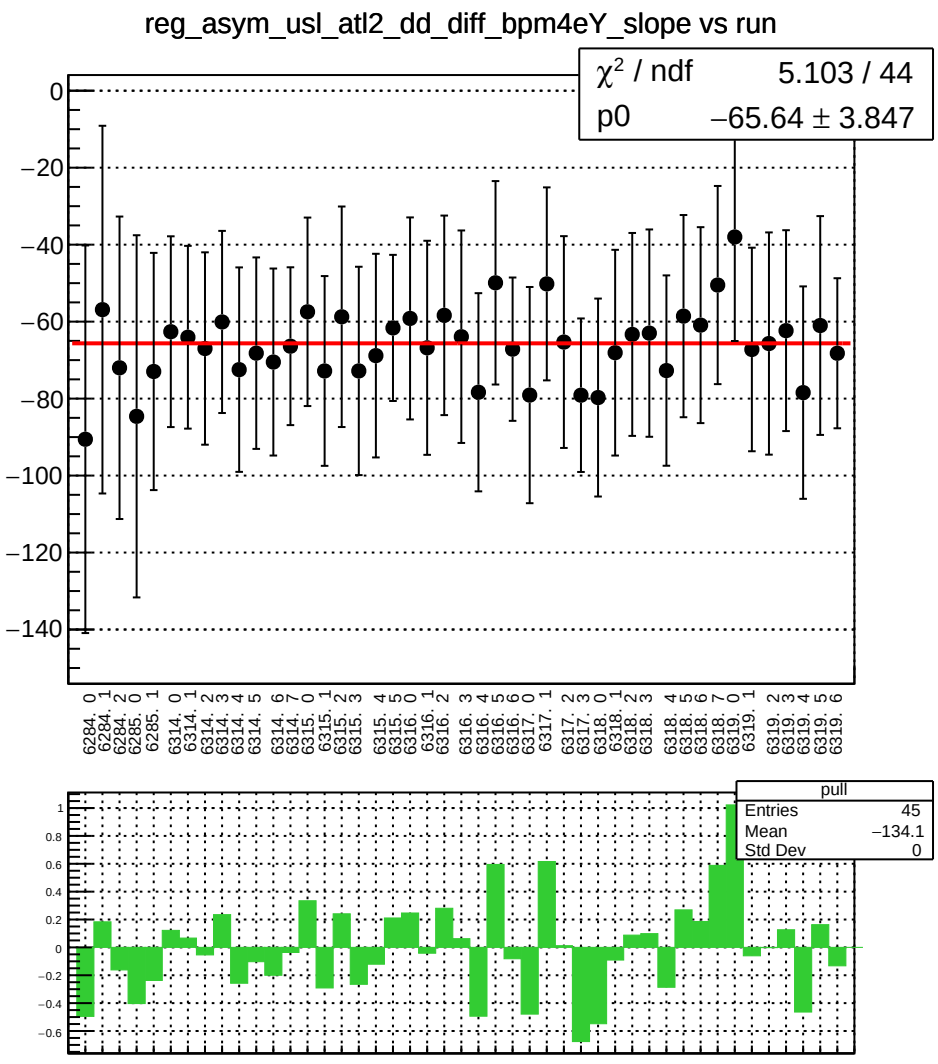

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.973 / 44
p0 253.4 ± 4.293
320
300
280
260
240
220
200
180
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −546.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

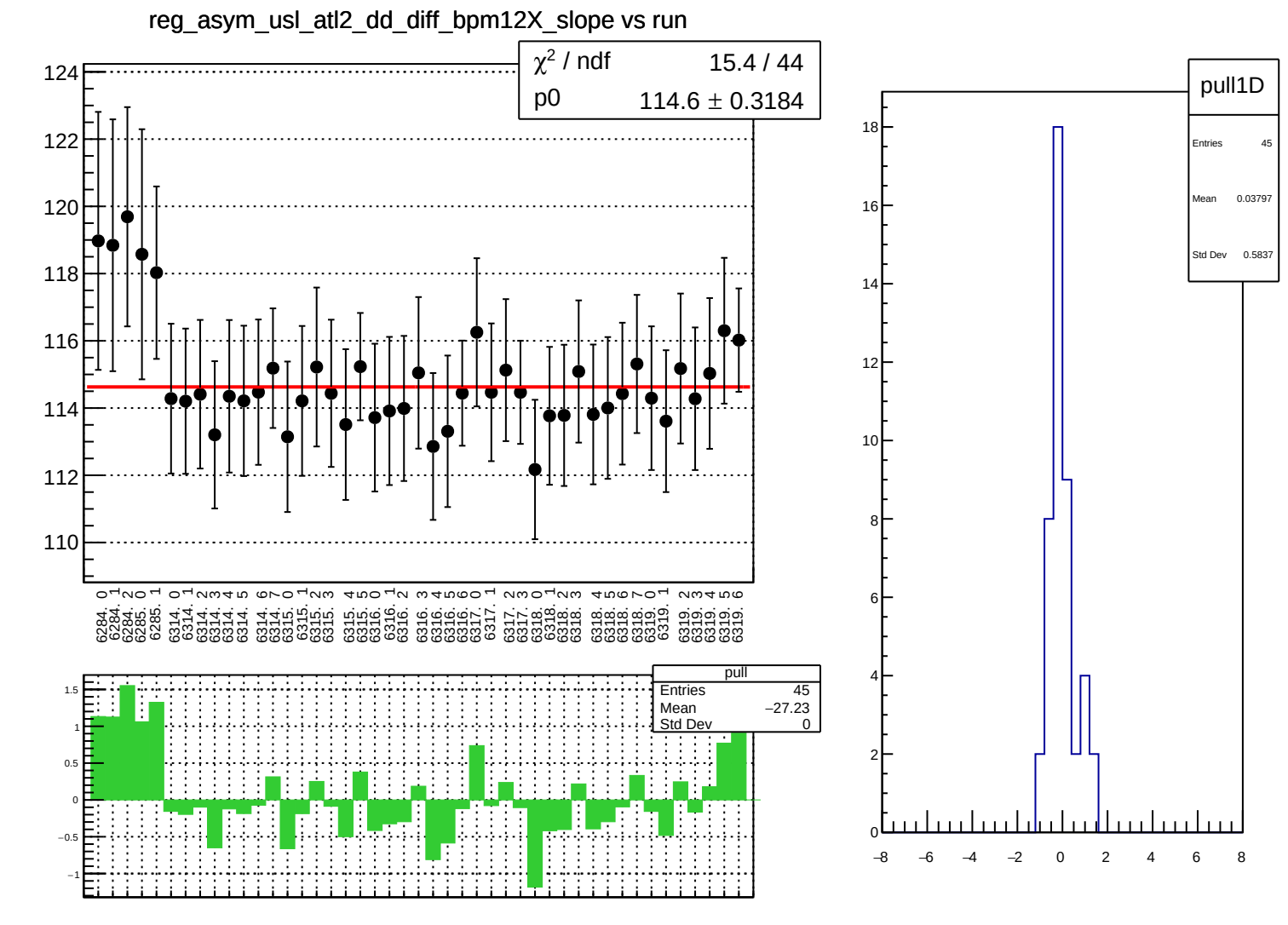

pull1D
Entries 45
Mean 0.0008652
Std Dev 0.3643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

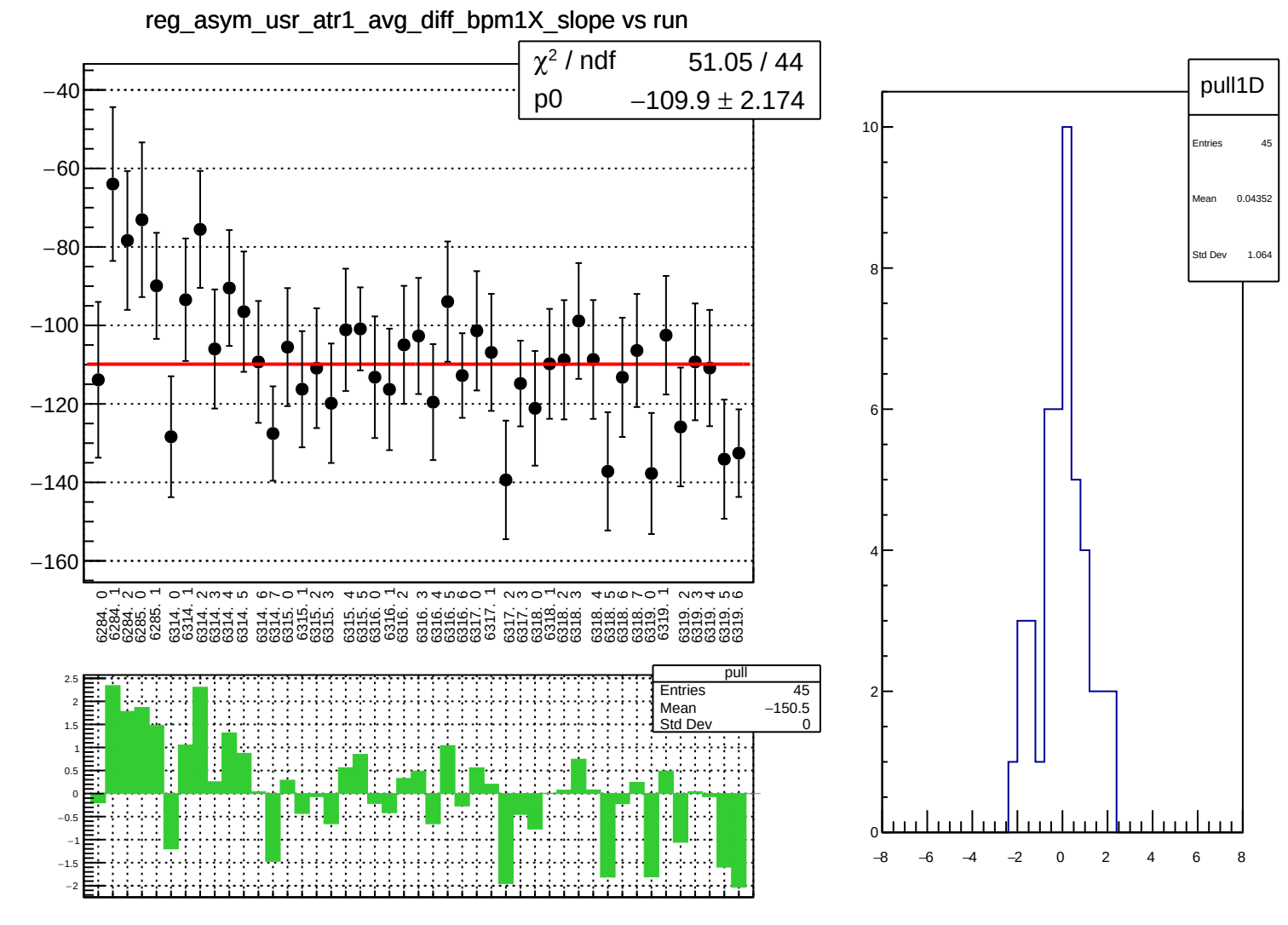

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.158 / 44
p0 6.371 ± 3.121
pull
Entries 45
Mean −207.9
Std Dev 0
pull1D
Entries 45
Mean 0.003012
Std Dev 0.3386

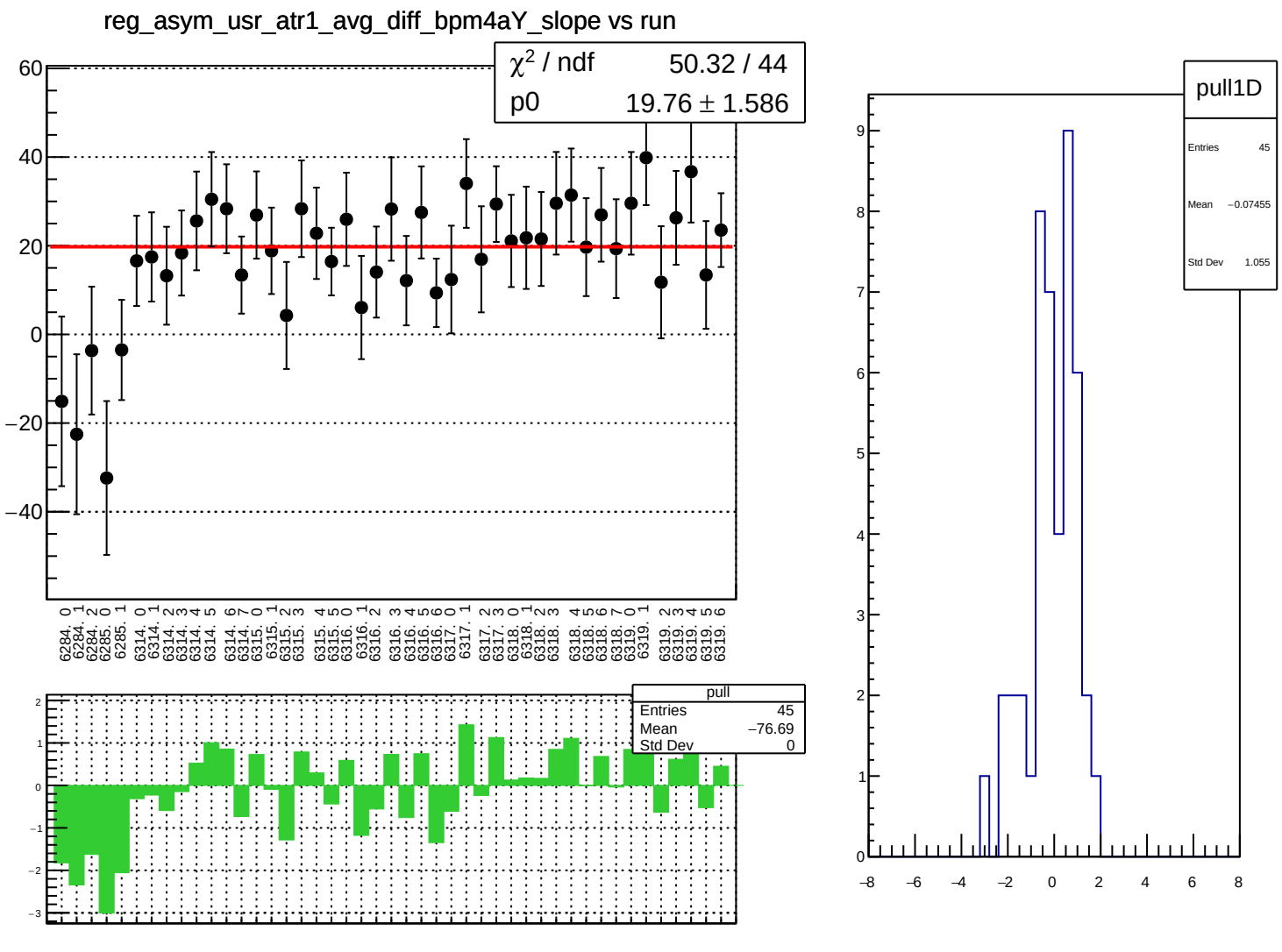

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.906 / 44
p0 −267.6 ± 4.4
pull
Entries 45
Mean −128.7
Std Dev 0

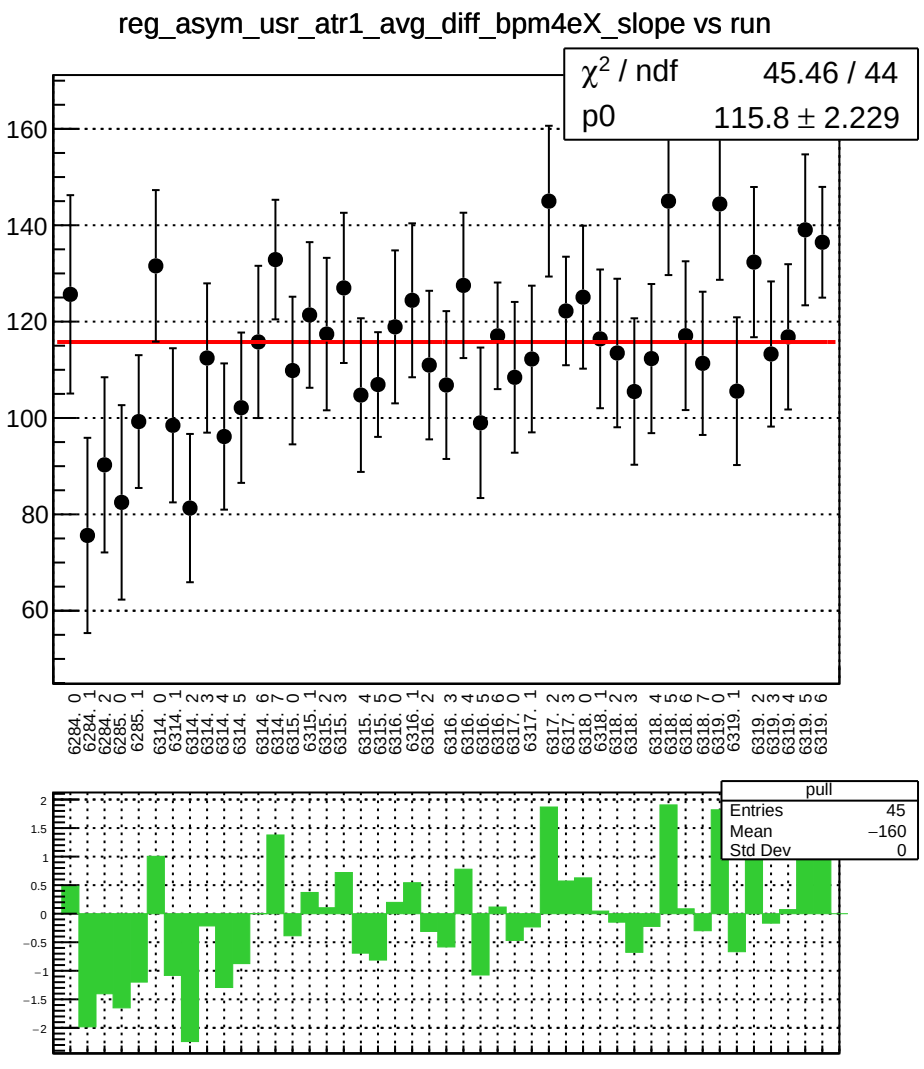

pull1D
Entries 45
Mean −0.009216
Std Dev 0.3917

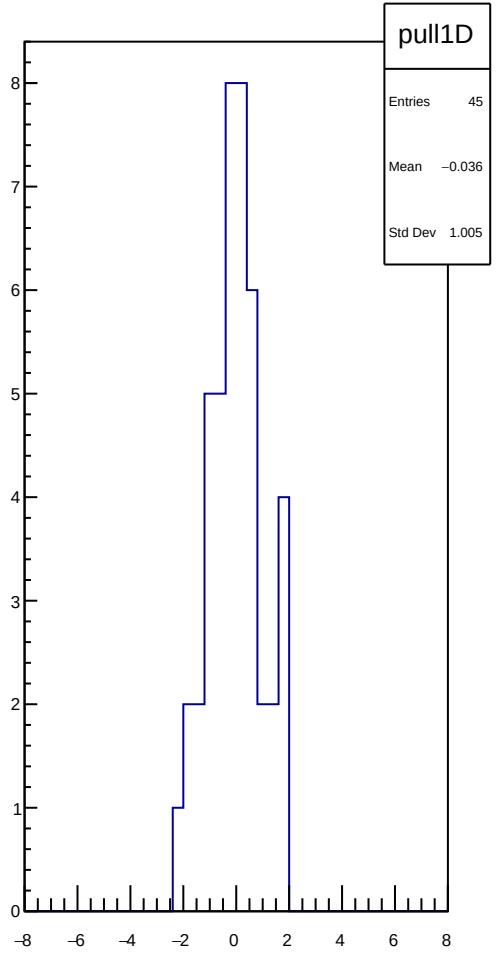

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.103 / 44
p0 −65.64 ± 3.847
0
−20
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −134.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.005095
Std Dev 0.3367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

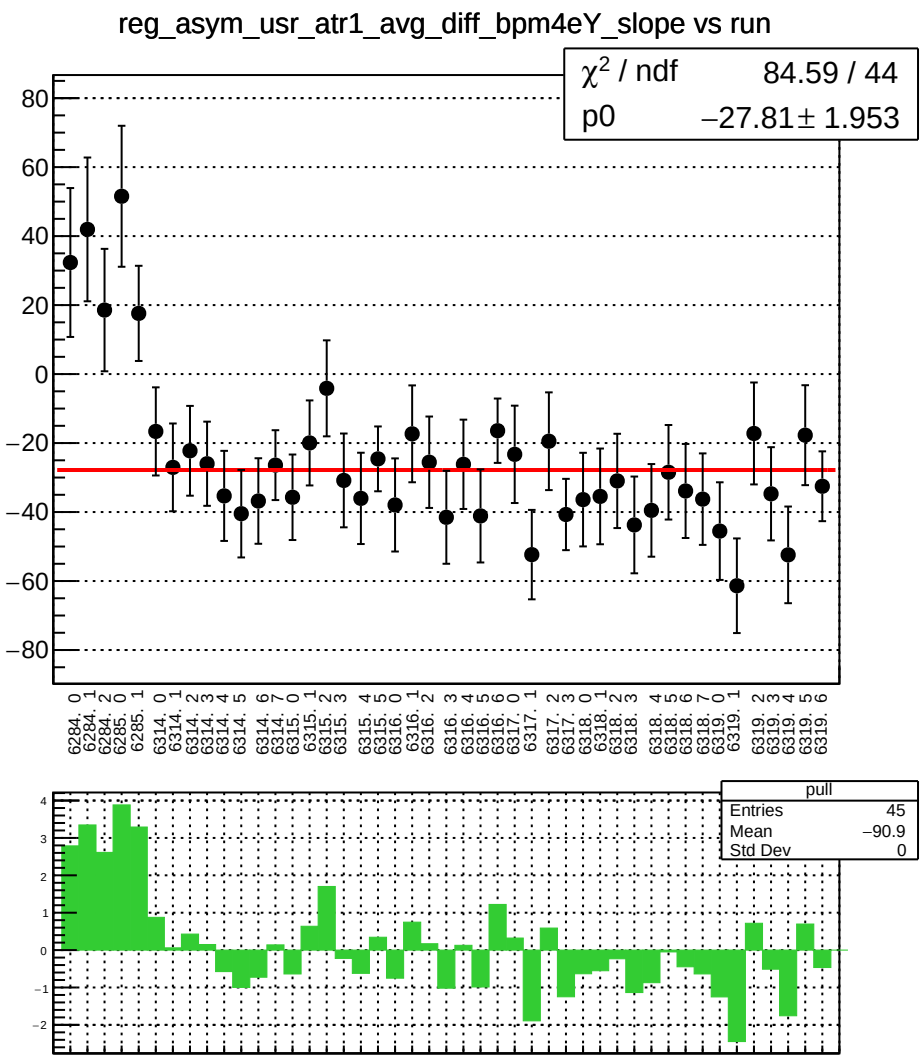

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.4 / 44
p0 114.6 ± 0.3184
pull
Entries 45
Mean −27.23
Std Dev 0
pull1D
Entries 45
Mean 0.03797
Std Dev 0.5837

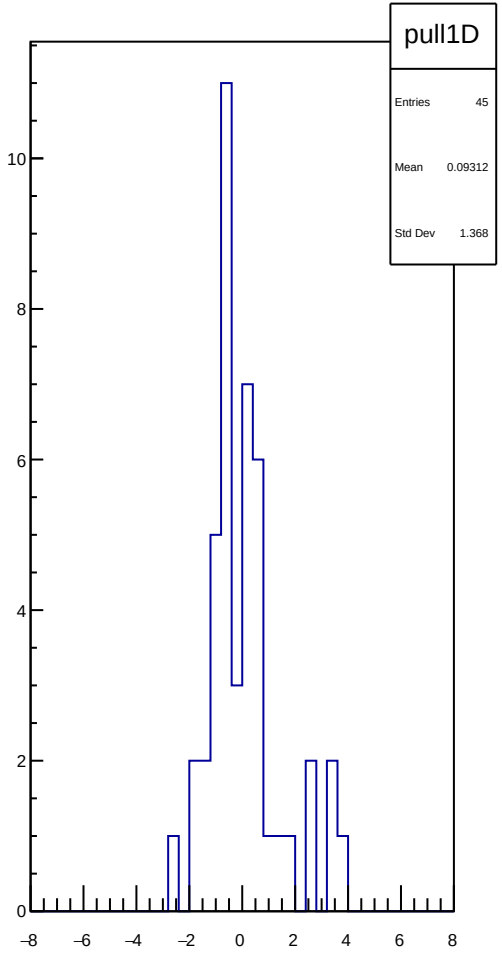

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 51.05 / 44
p0 −109.9 ± 2.174
pull
Entries 45
Mean −150.5
Std Dev 0
pull1D
Entries 45
Mean 0.04352
Std Dev 1.064

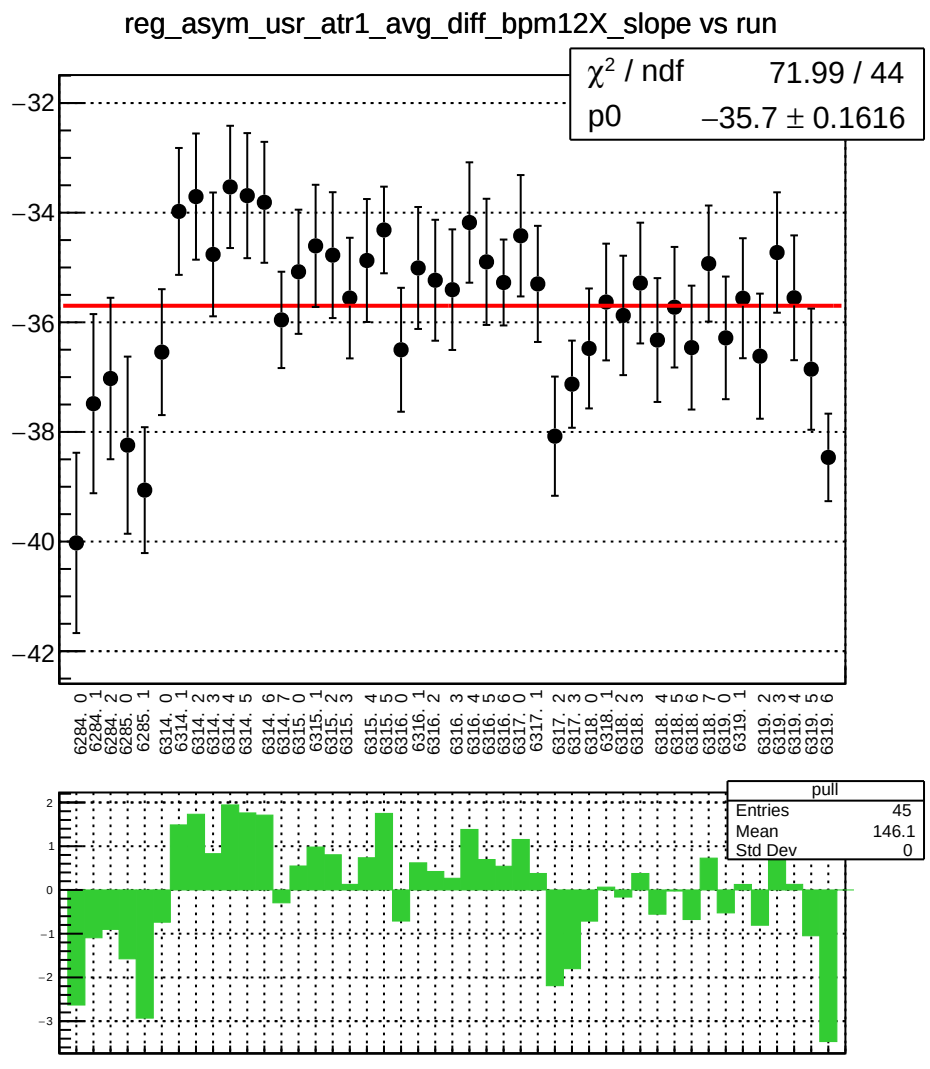

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.32 / 44
p0 19.76 ± 1.586
pull
Entries 45
Mean −76.69
Std Dev 0
pull1D
Entries 45
Mean −0.07455
Std Dev 1.055

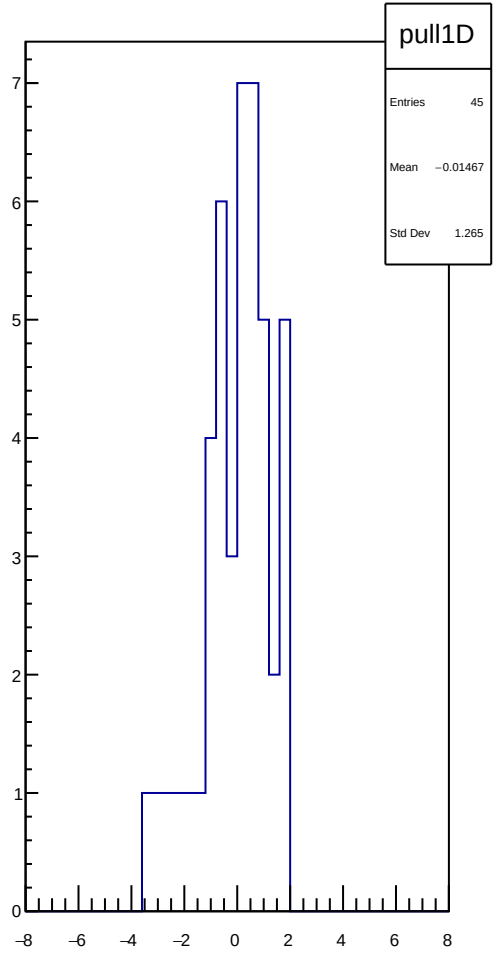

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.46 / 44
p0 115.8 ± 2.229
160
140
120
100
80
60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −160
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

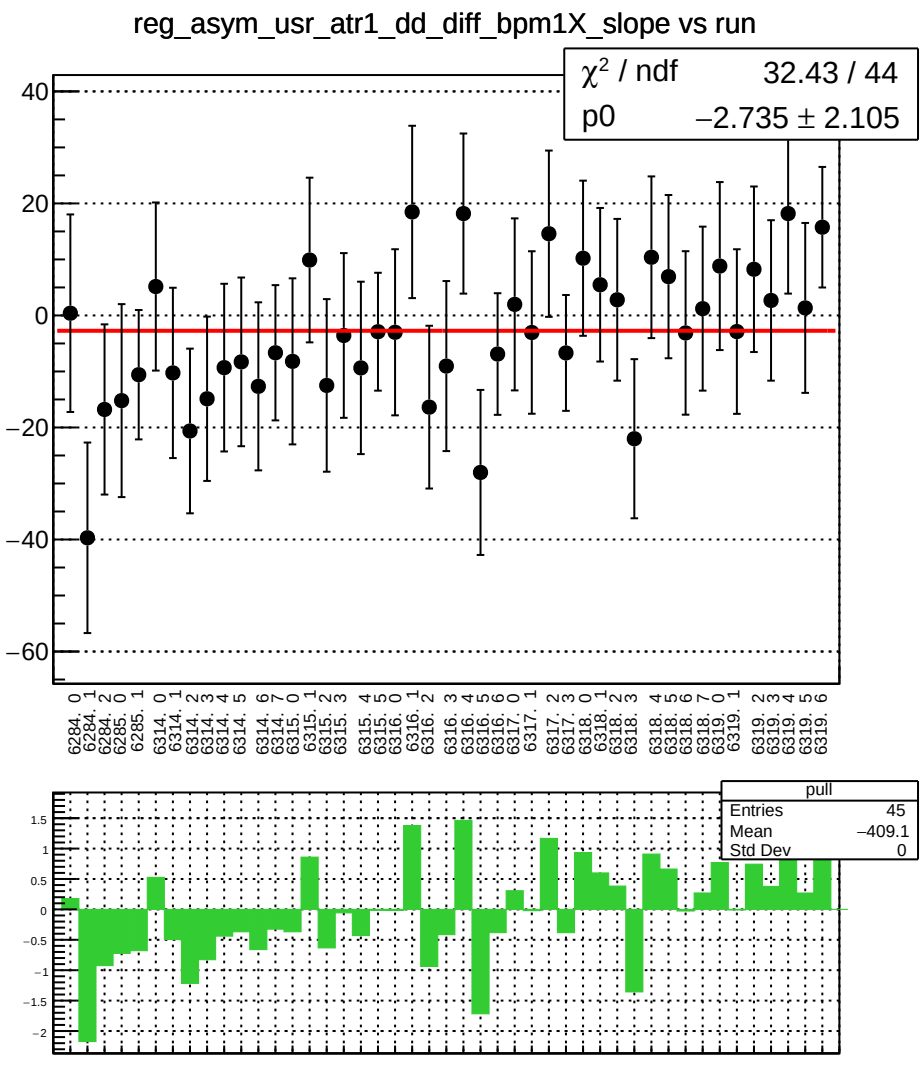

pull1D
Entries 45
Mean −0.036
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

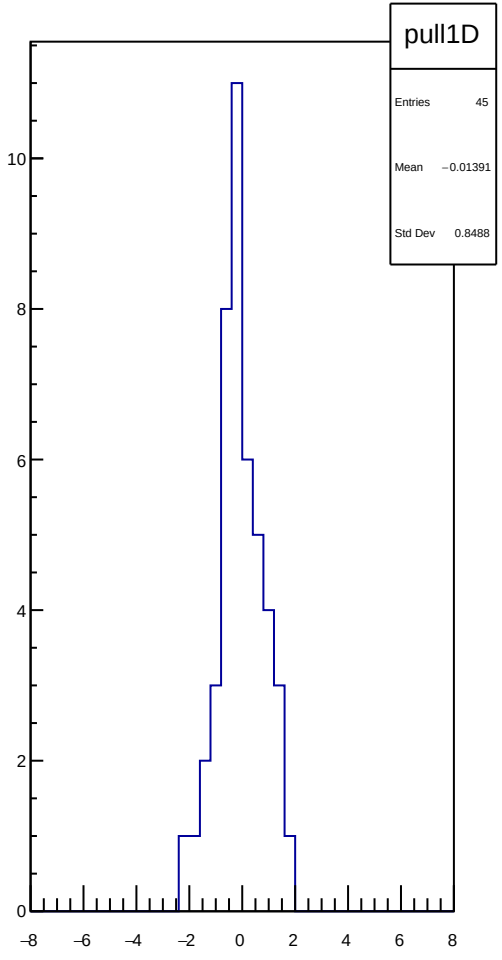

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.59 / 44
p0 −27.81± 1.953
pull
Entries 45
Mean −90.9
Std Dev 0

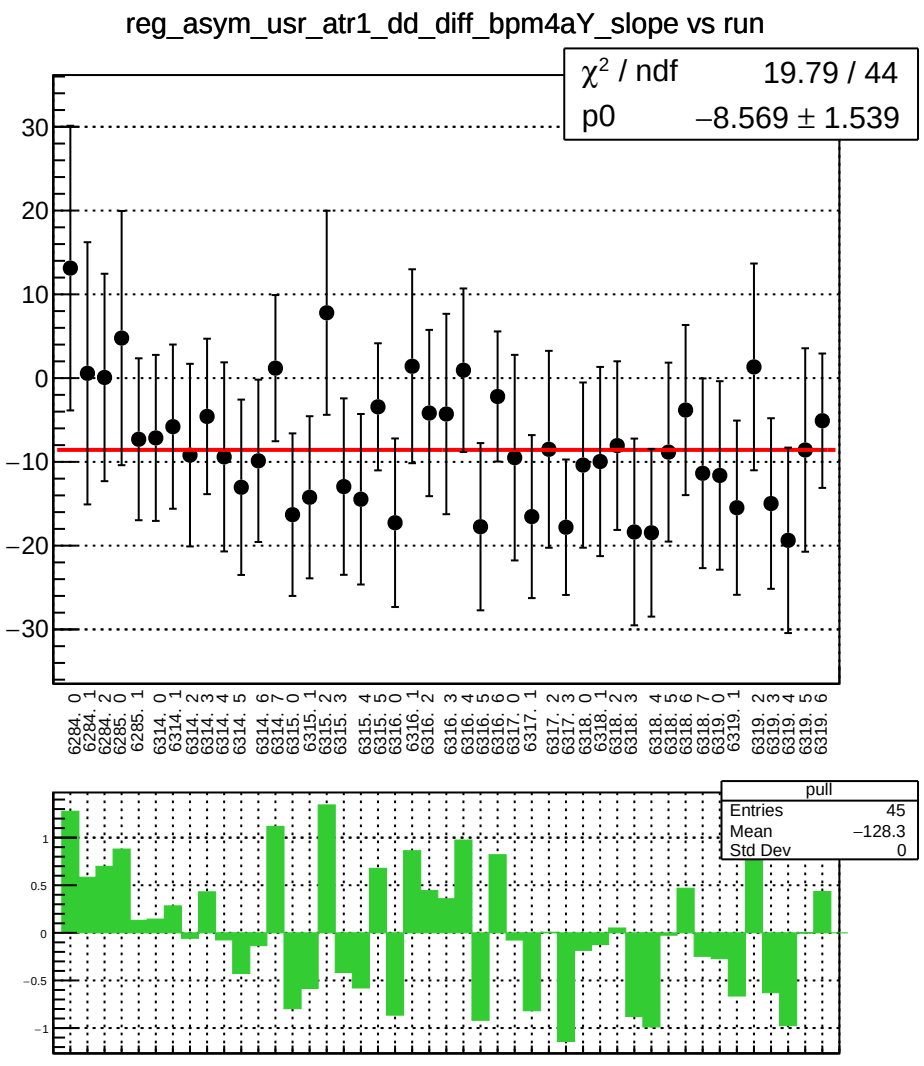

pull1D
Entries 45
Mean 0.09312
Std Dev 1.368

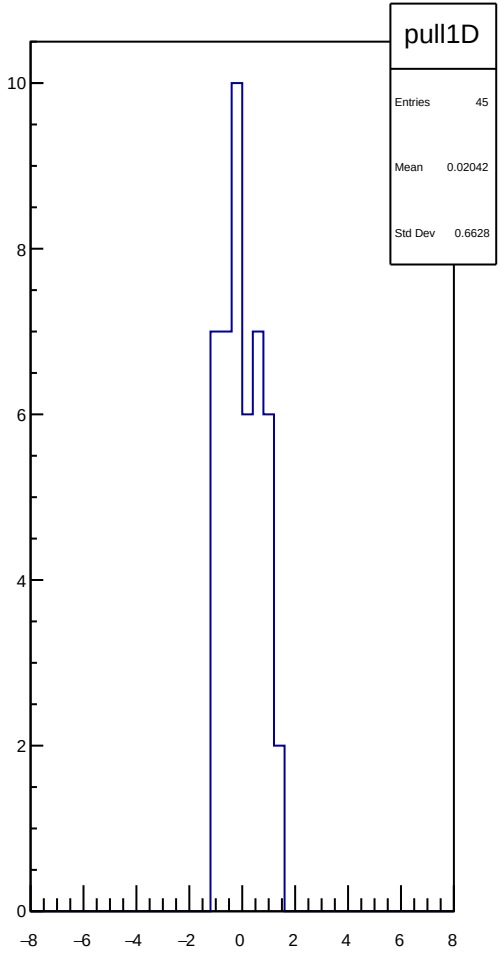

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 71.99 / 44
p0 −35.7 ± 0.1616
−32
−34
−36
−38
−40
−42
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 146.1
Std Dev 0
2
1
0
−1
−2
−3

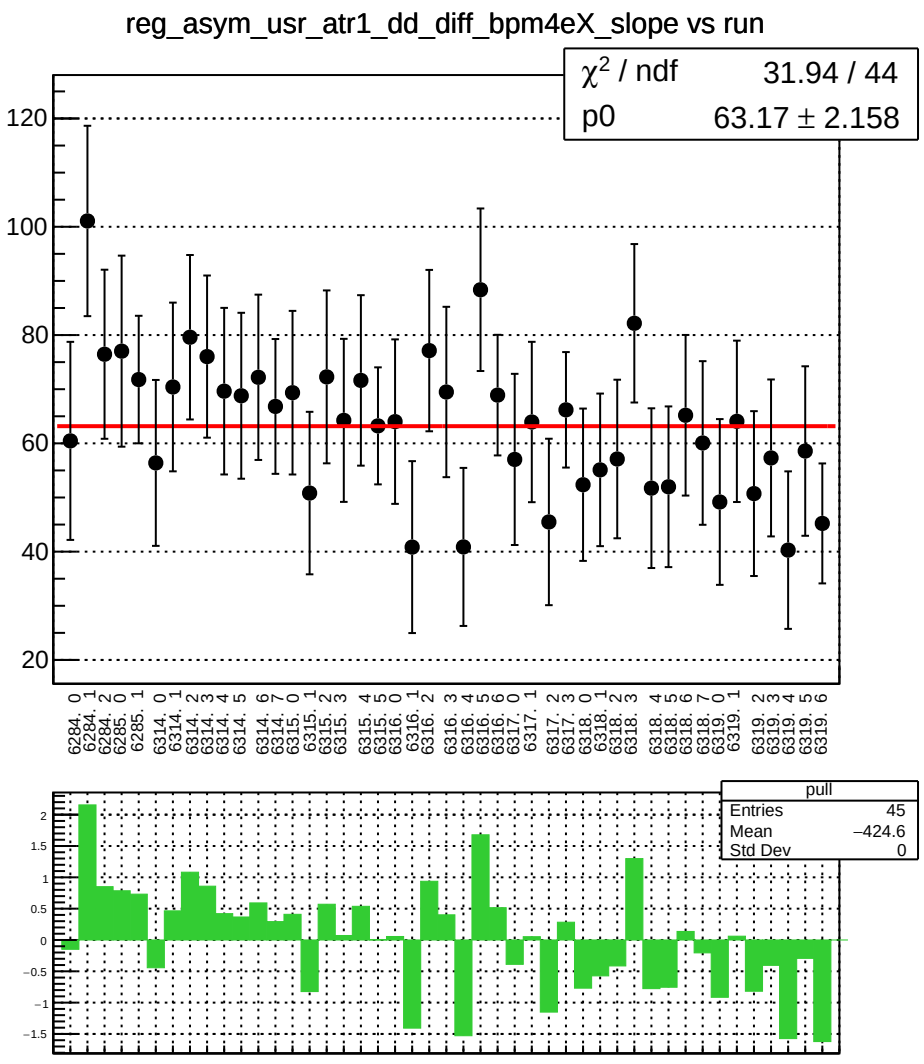

pull1D
Entries 45
Mean −0.01467
Std Dev 1.265
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

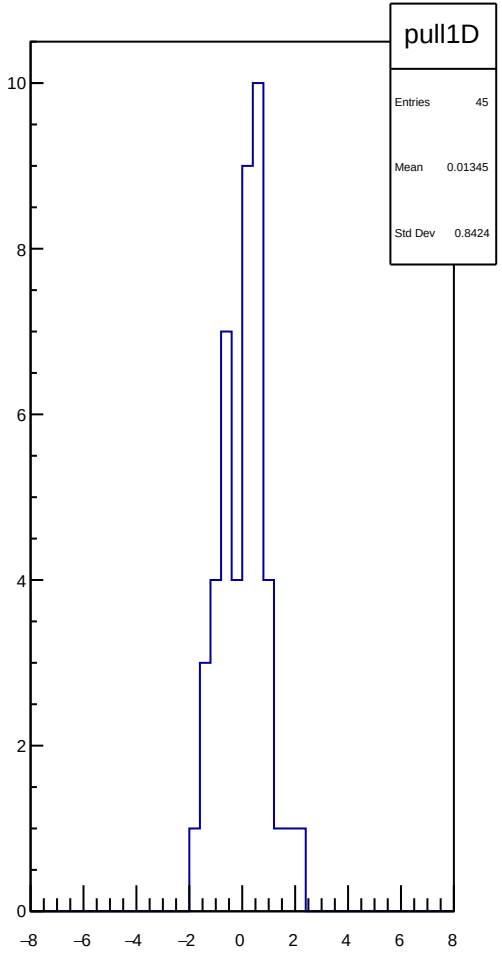

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 32.43 / 44
p0 −2.735 ± 2.105
40
20
0
−20
−40
−60
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −409.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

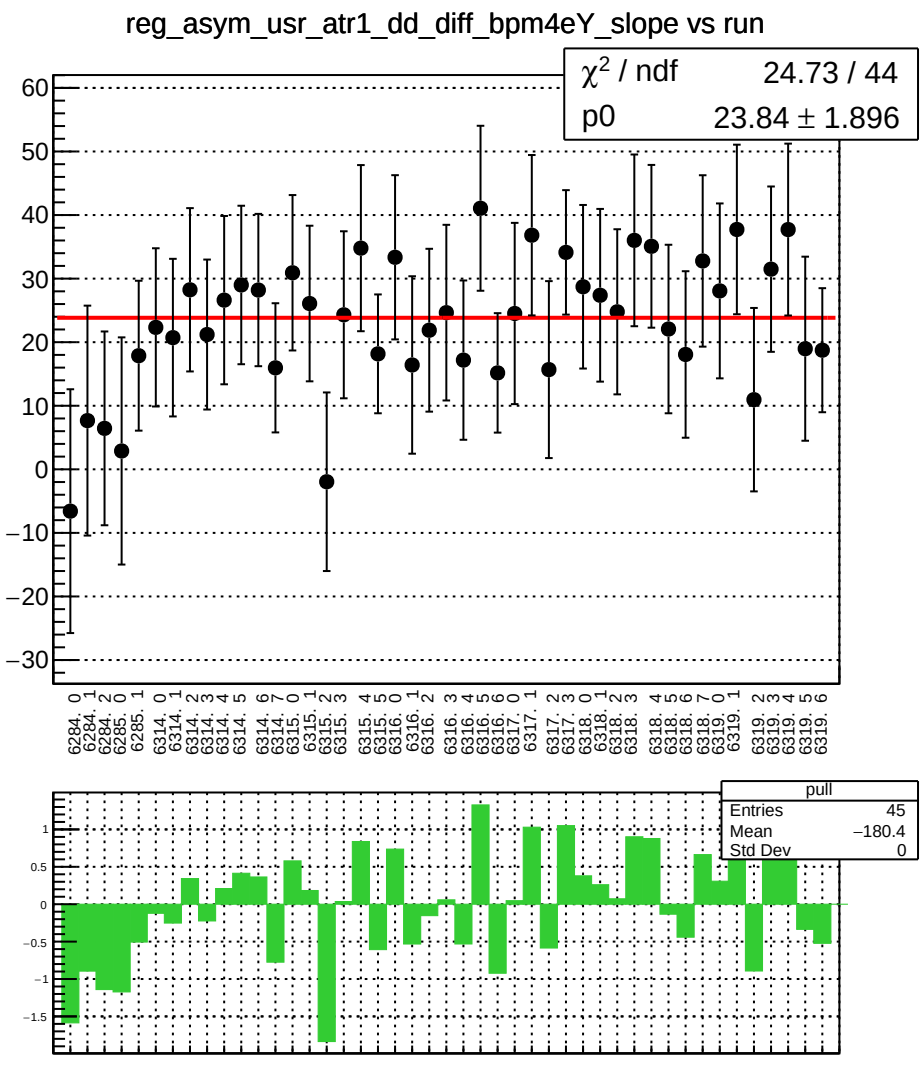

pull1D
Entries 45
Mean −0.01391
Std Dev 0.8488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

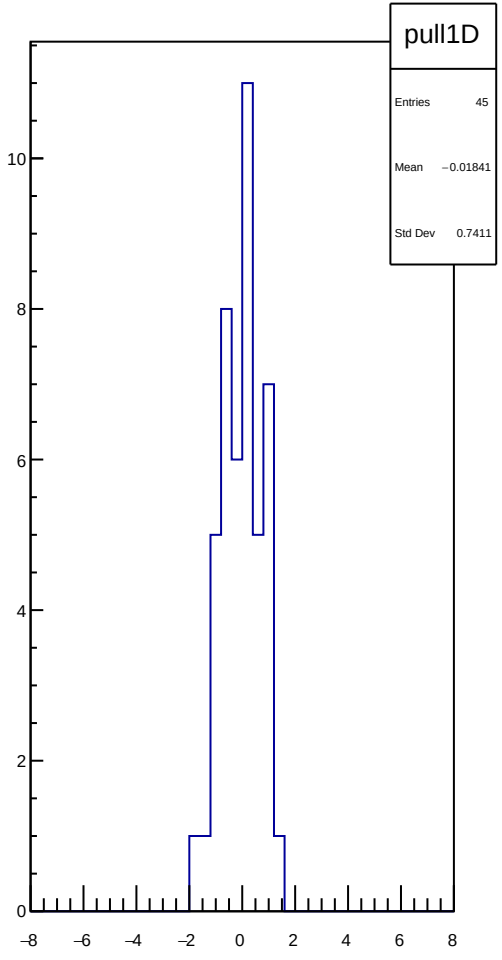

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.79 / 44
p0 −8.569 ± 1.539
pull
Entries 45
Mean −128.3
Std Dev 0

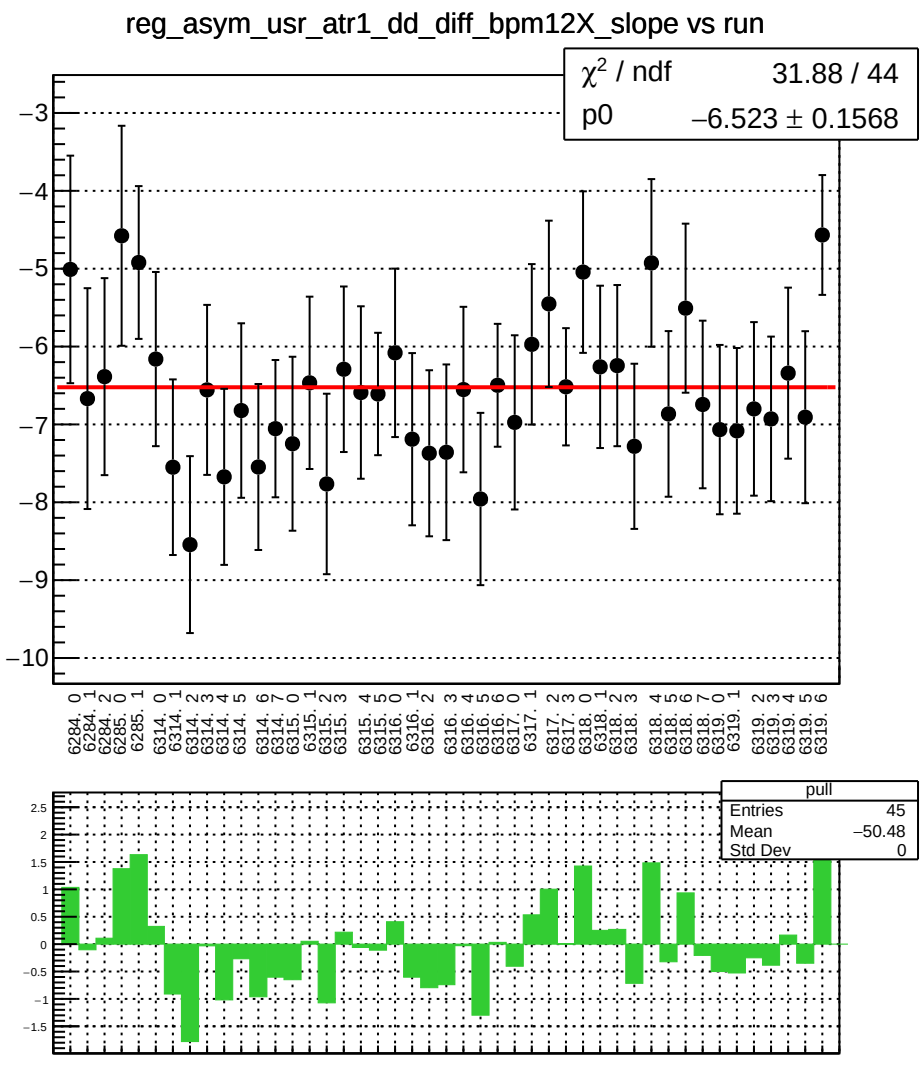

pull1D
Entries 45
Mean 0.02042
Std Dev 0.6628

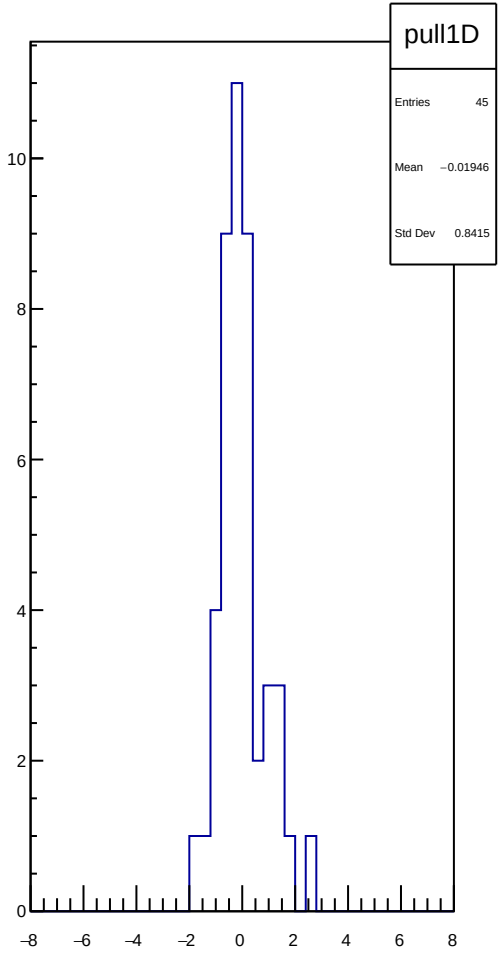

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.94 / 44
p0 63.17 ± 2.158
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −424.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

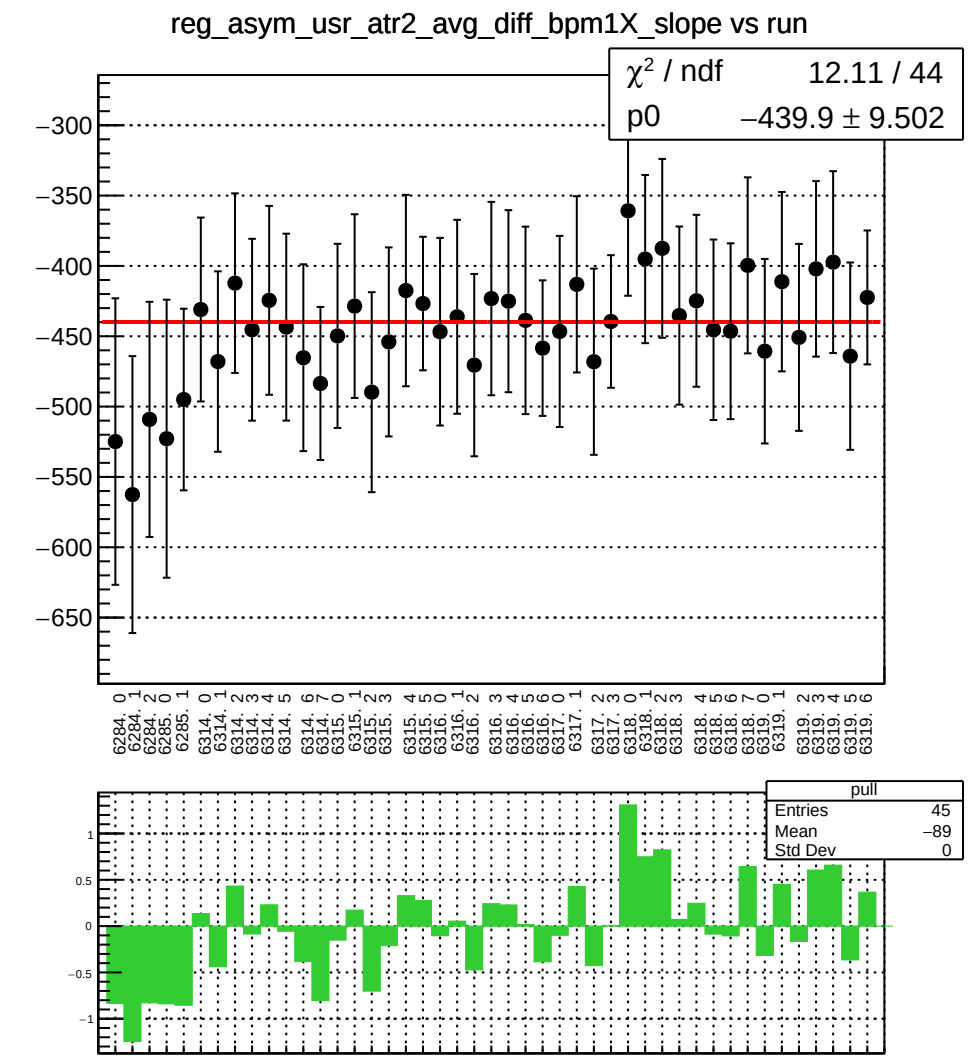

pull1D
Entries 45
Mean 0.01345
Std Dev 0.8424
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

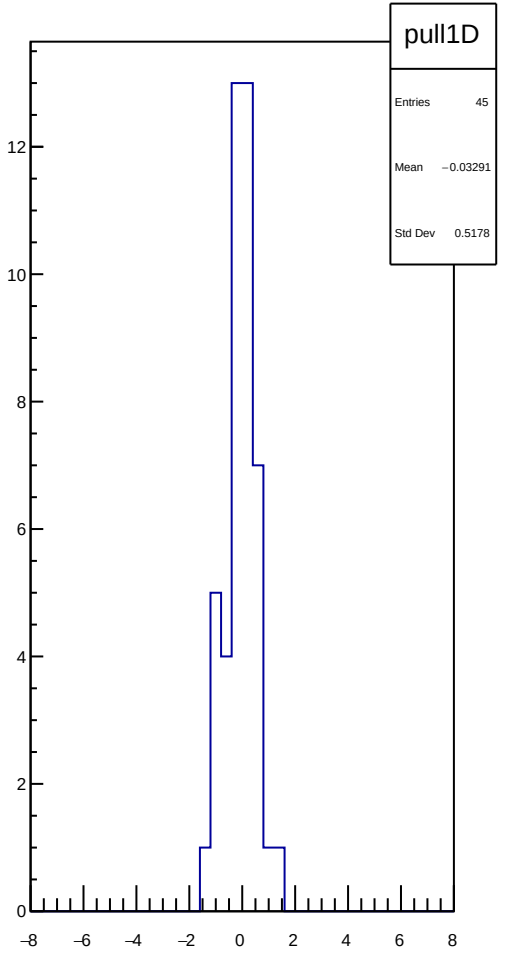

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.73 / 44
p0 23.84 ± 1.896
pull
Entries 45
Mean −180.4
Std Dev 0

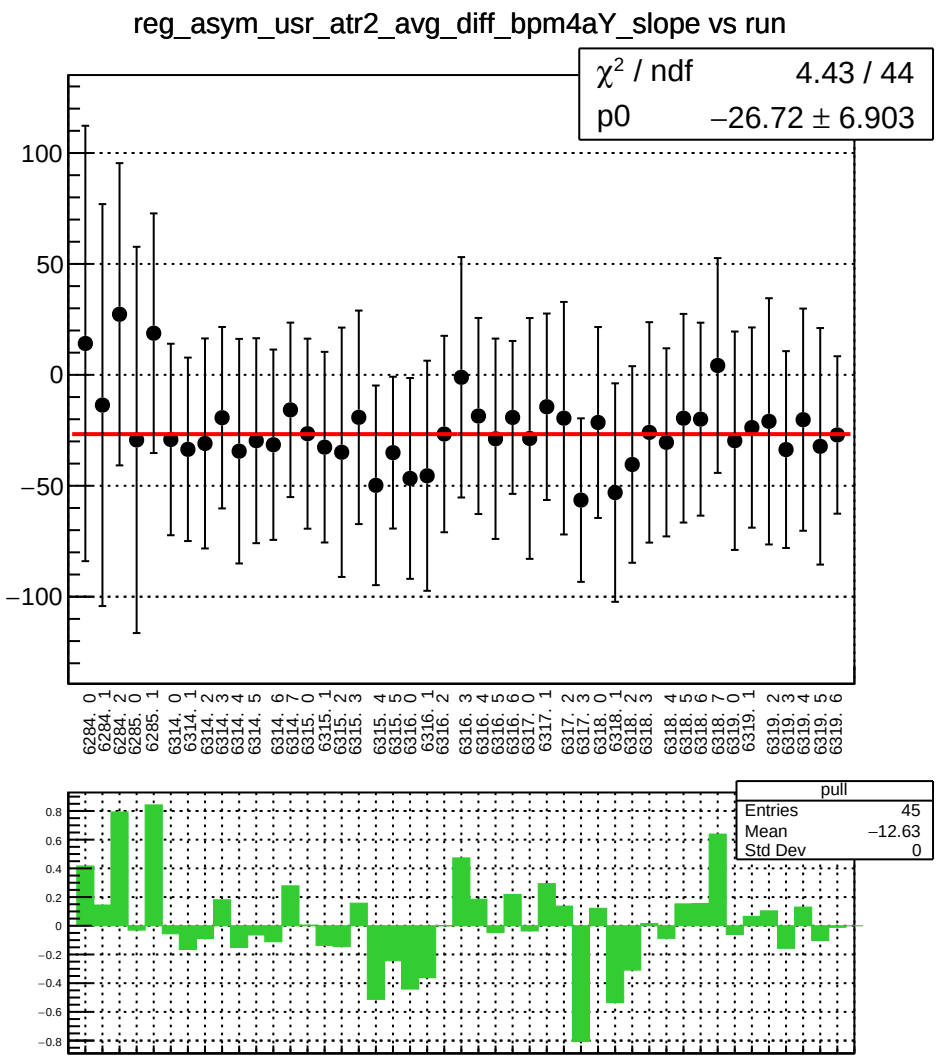

pull1D
Entries 45
Mean −0.01841
Std Dev 0.7411

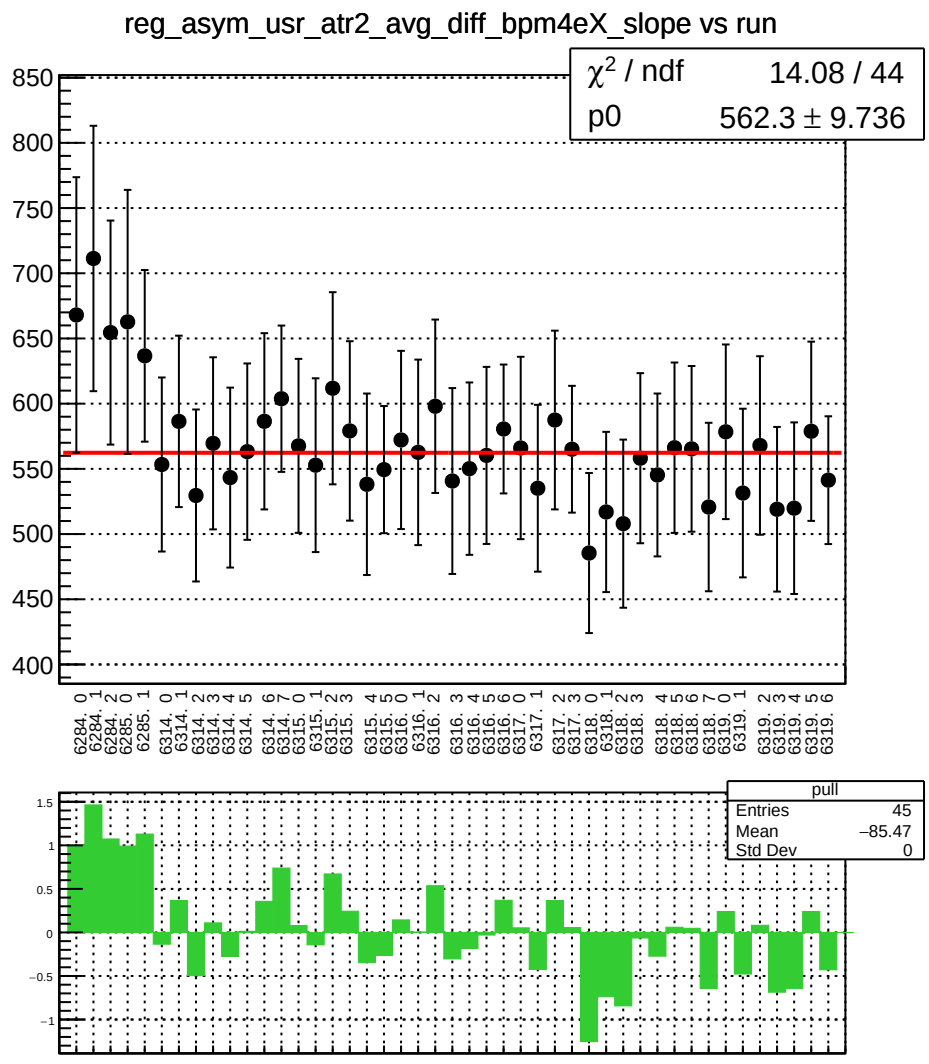

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 31.88 / 44
p0 −6.523 ± 0.1568
pull
Entries 45
Mean −50.48
Std Dev 0

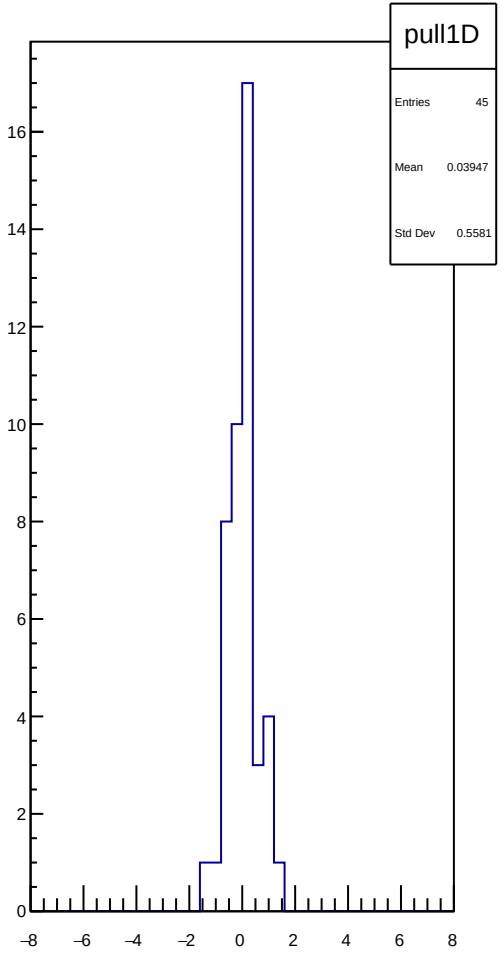

pull1D
Entries 45
Mean −0.01946
Std Dev 0.8415

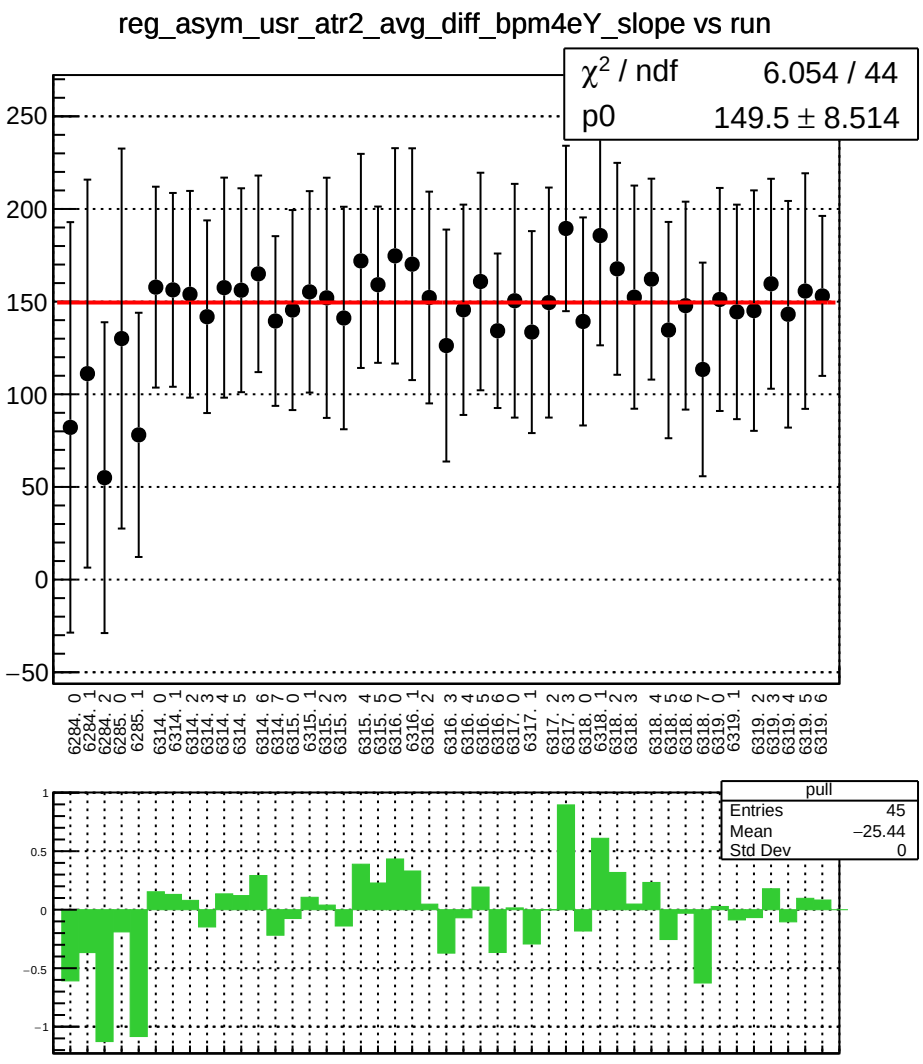

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.11 / 44
p0 −439.9 ± 9.502
−300
−350
−400
−450
−500
−550
−600
−650
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −89
Std Dev 0
1
0.5
0
−0.5
−1

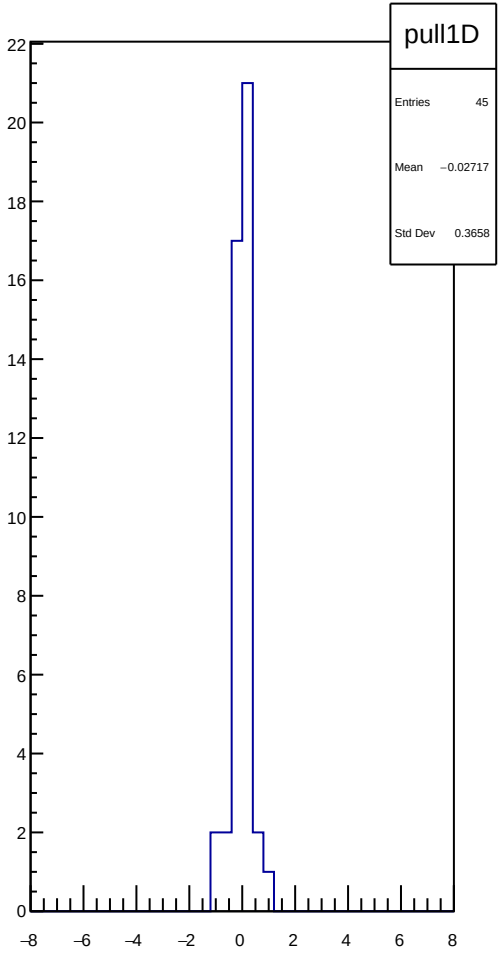

pull1D
Entries 45
Mean −0.03291
Std Dev 0.5178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

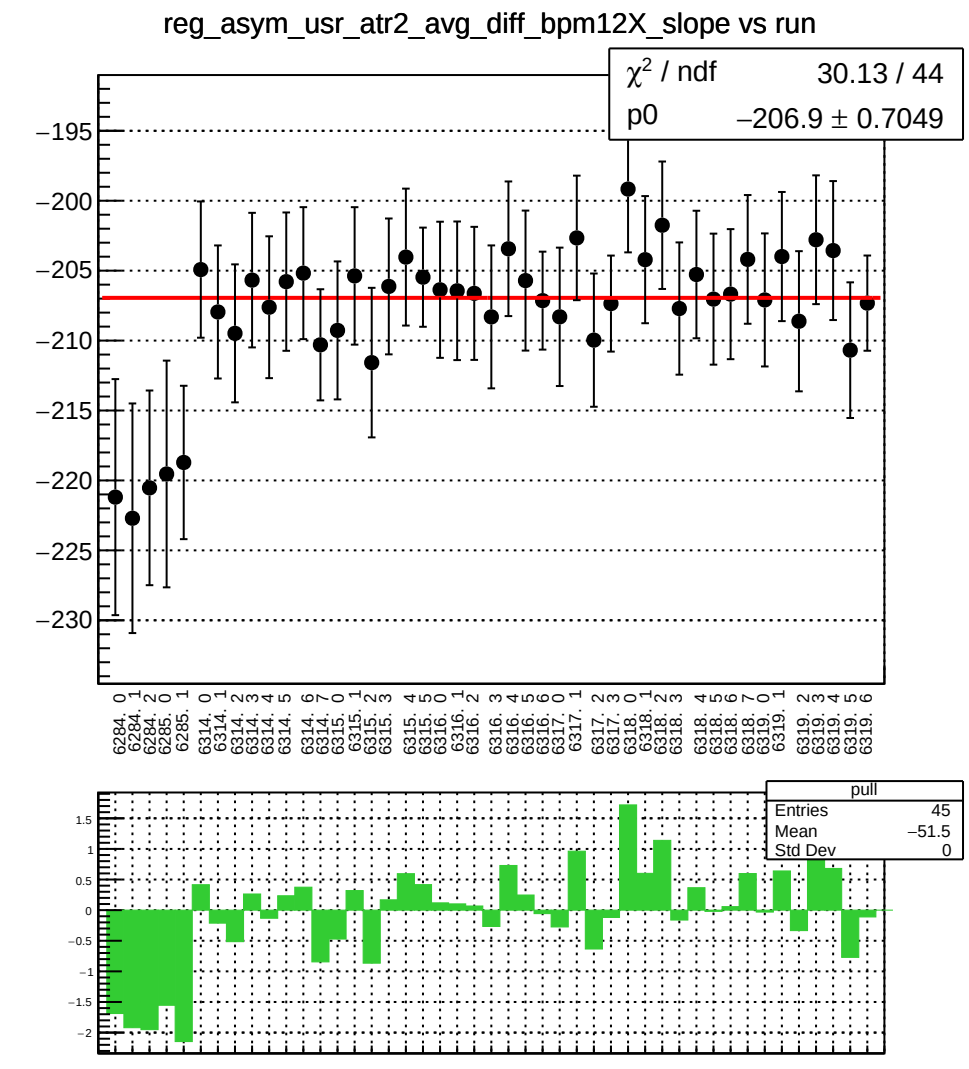

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.43 / 44
p0 −26.72 ± 6.903
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −12.63
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.01894
Std Dev 0.3132
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

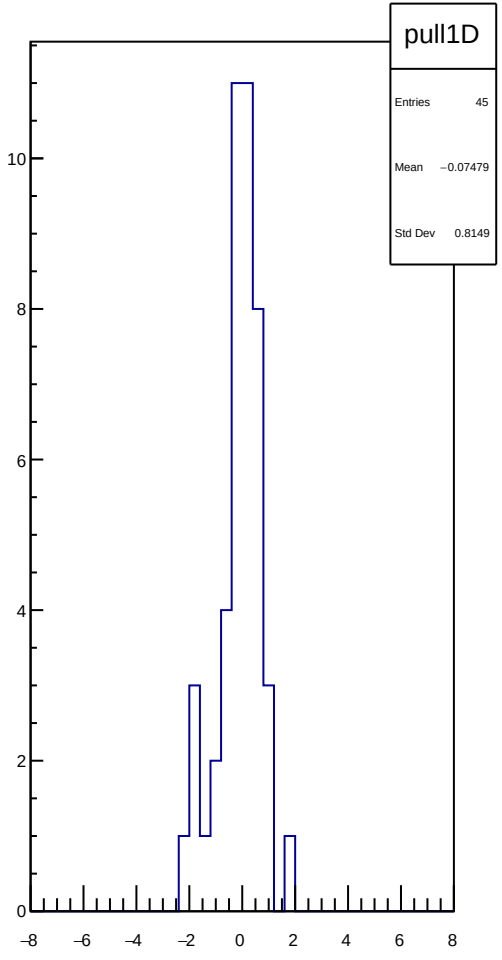

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.08 / 44
p0 562.3 ± 9.736
pull
Entries 45
Mean −85.47
Std Dev 0

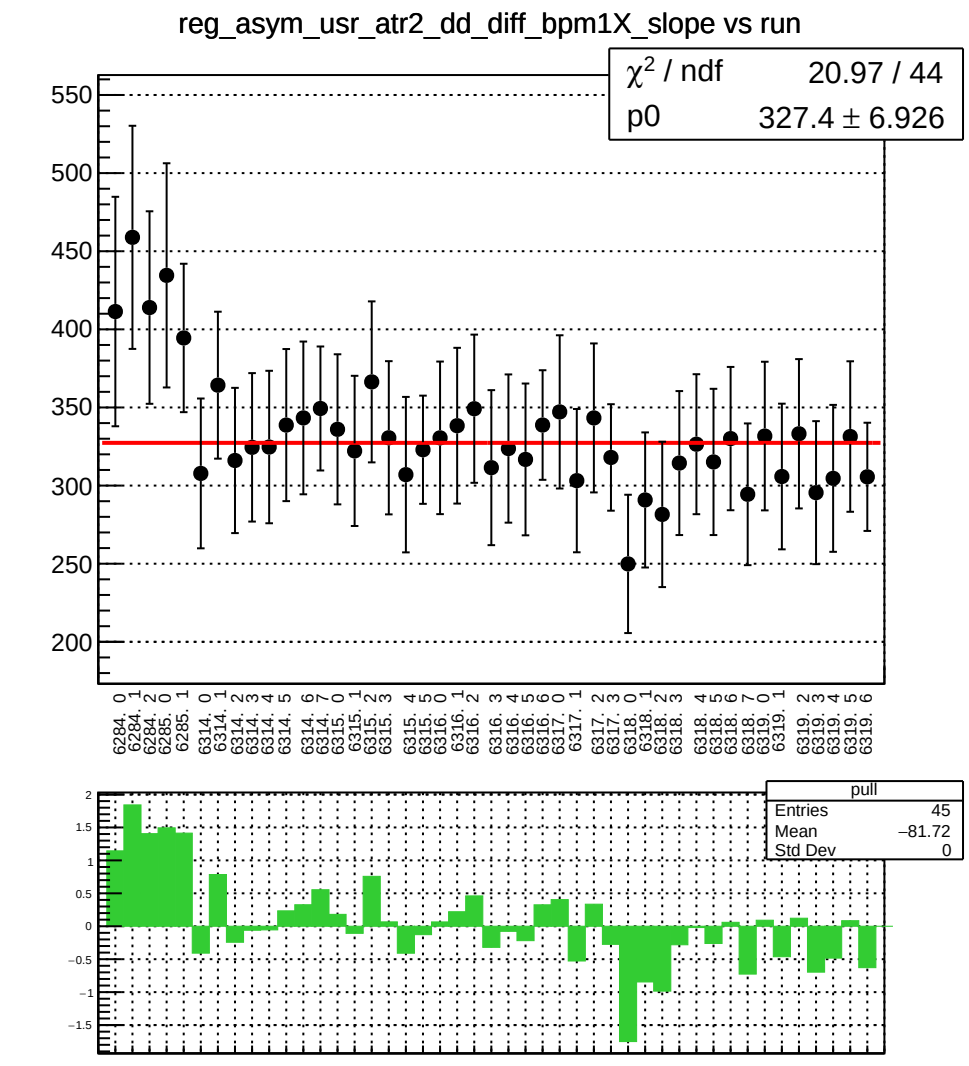

pull1D
Entries 45
Mean 0.03947
Std Dev 0.5581

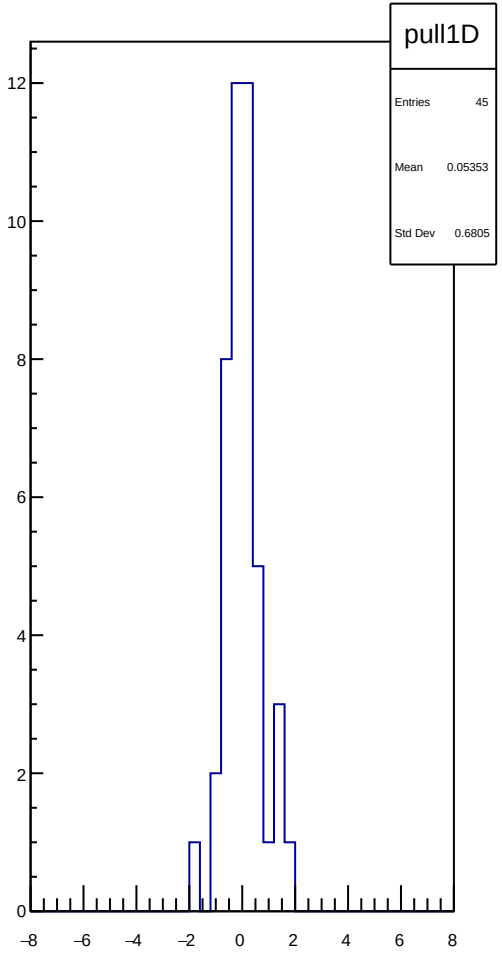

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.054 / 44
p0 149.5 ± 8.514
250
200
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.44
Std Dev 0
1
0.5
0
−0.5
−1

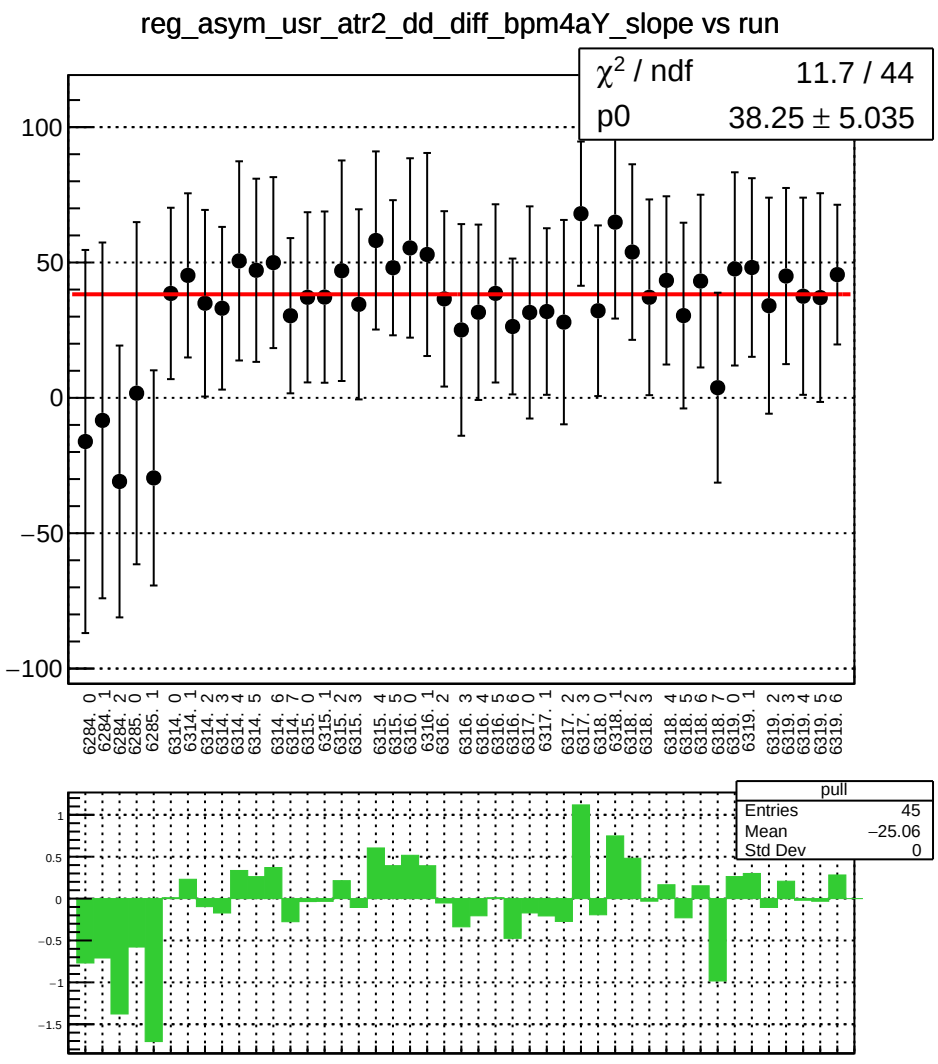

pull1D
Entries 45
Mean −0.02717
Std Dev 0.3658
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

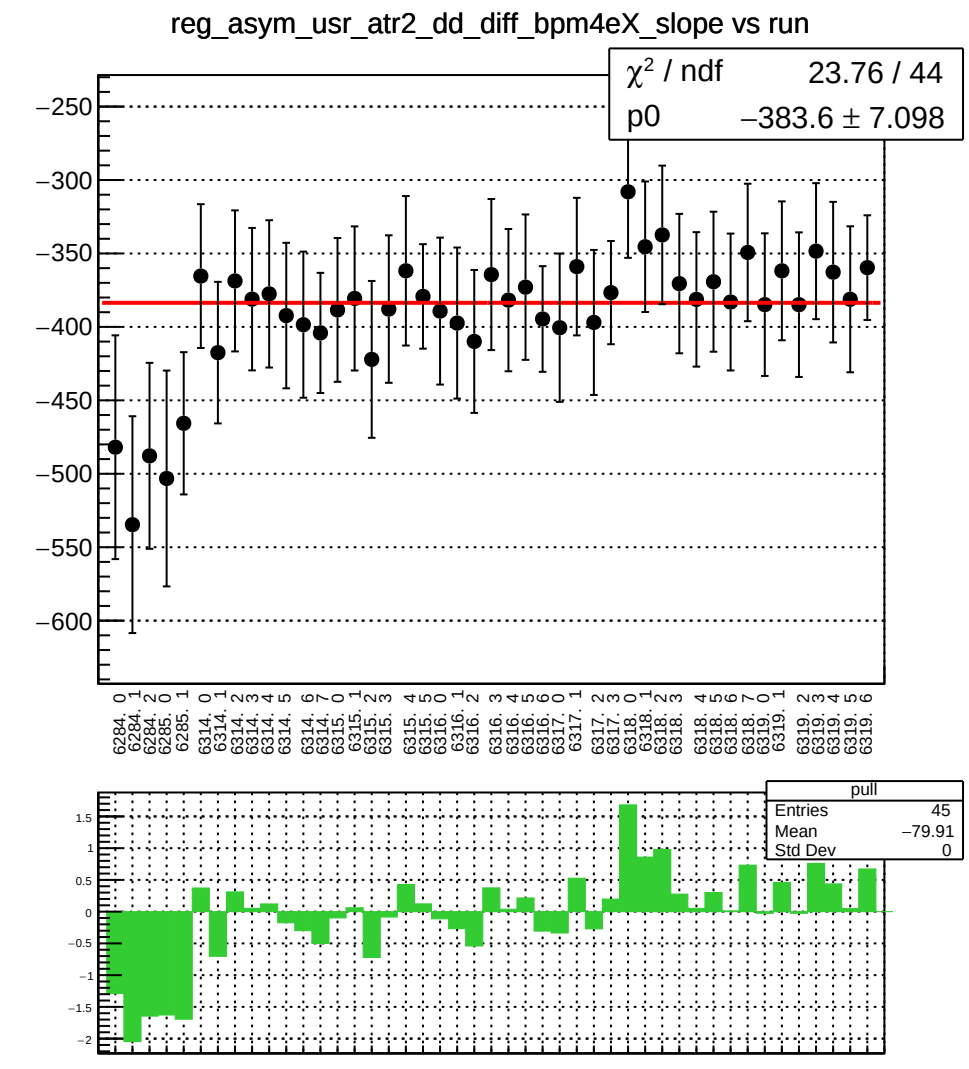

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 30.13 / 44
p0 −206.9 ± 0.7049
pull
Entries 45
Mean −51.5
Std Dev 0

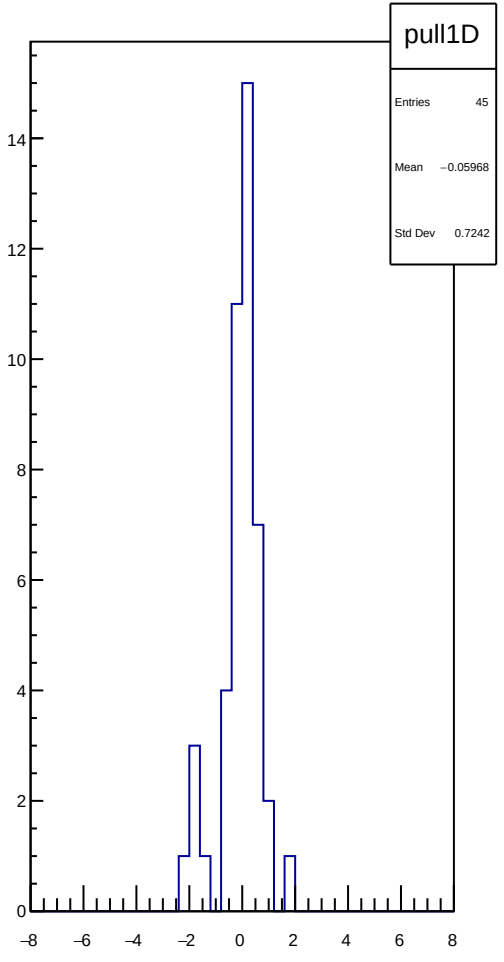

pull1D
Entries 45
Mean −0.07479
Std Dev 0.8149

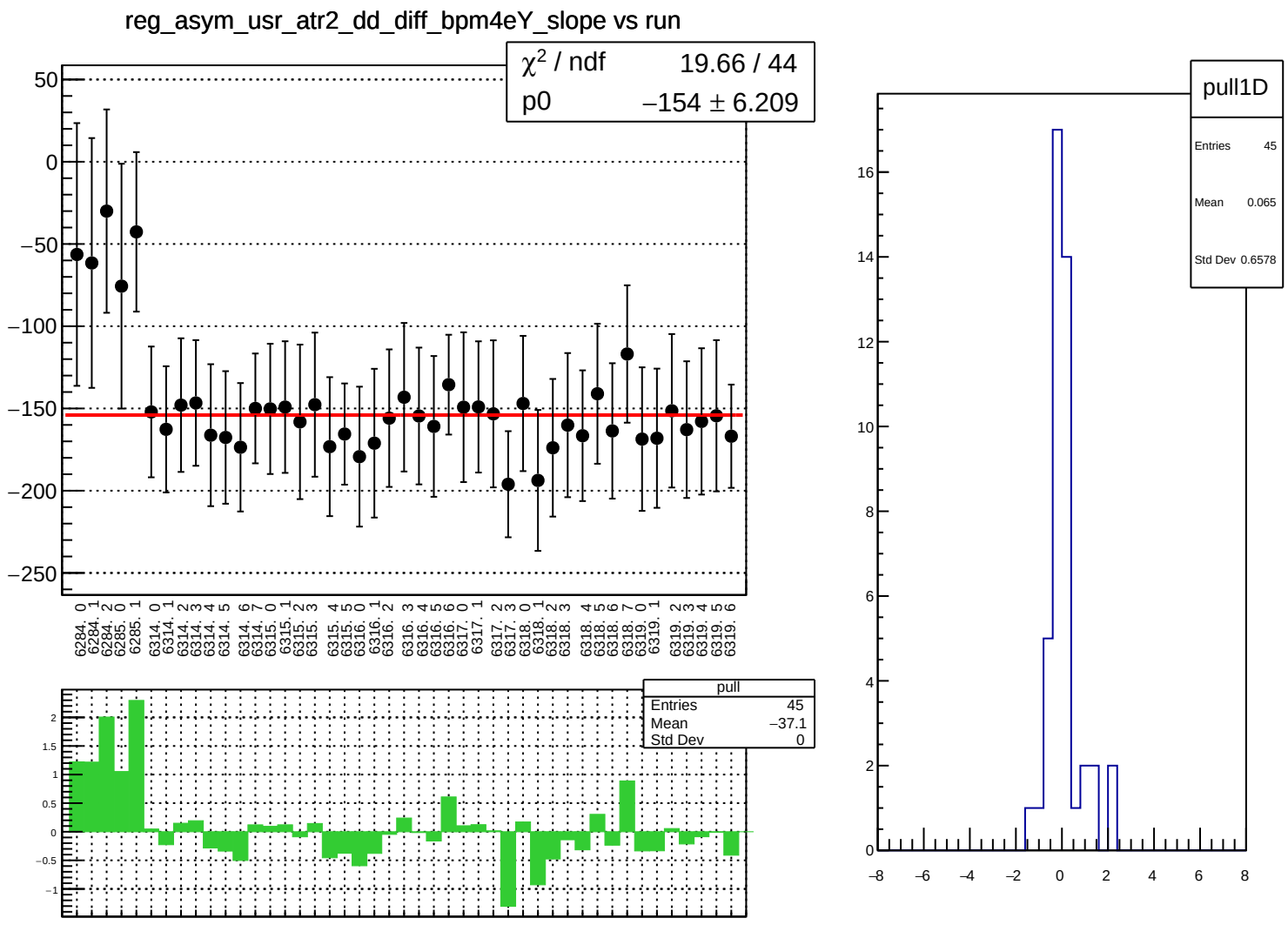

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.97 / 44
p0 327.4 ± 6.926
pull
Entries 45
Mean −81.72
Std Dev 0

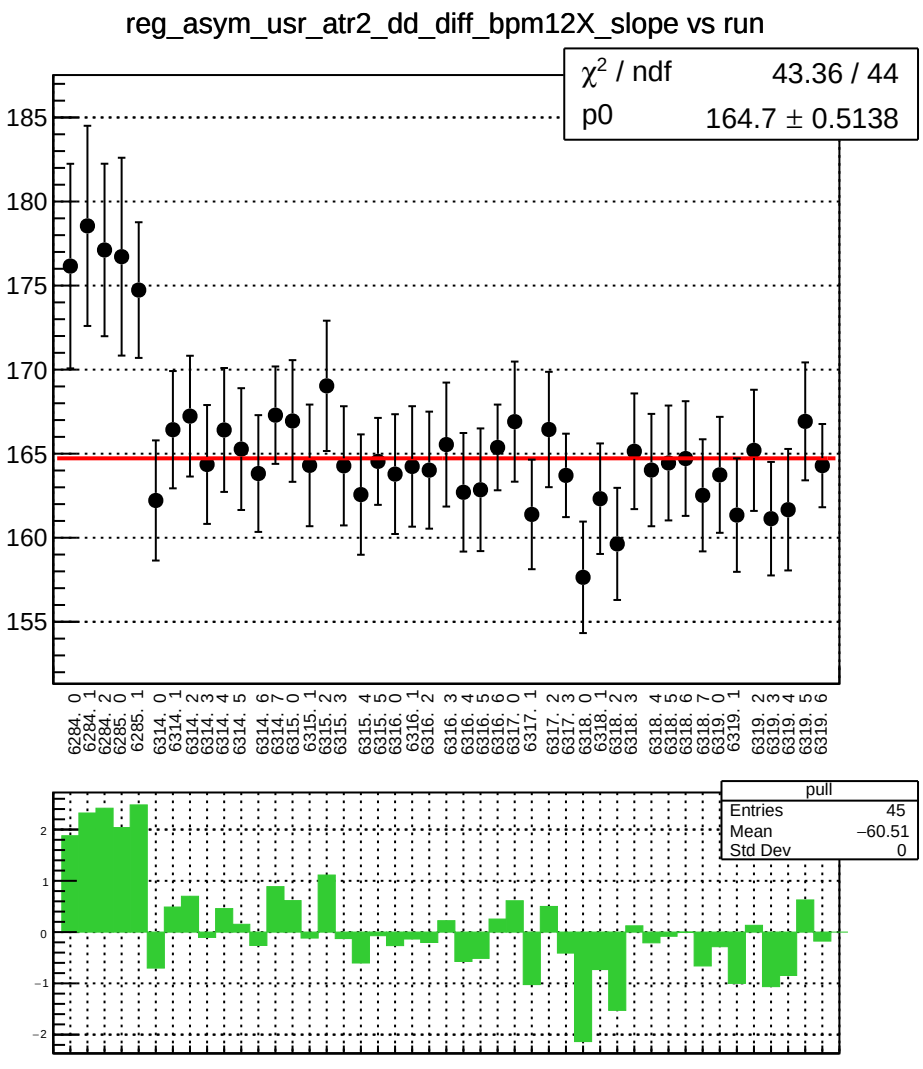

pull1D
Entries 45
Mean 0.05353
Std Dev 0.6805

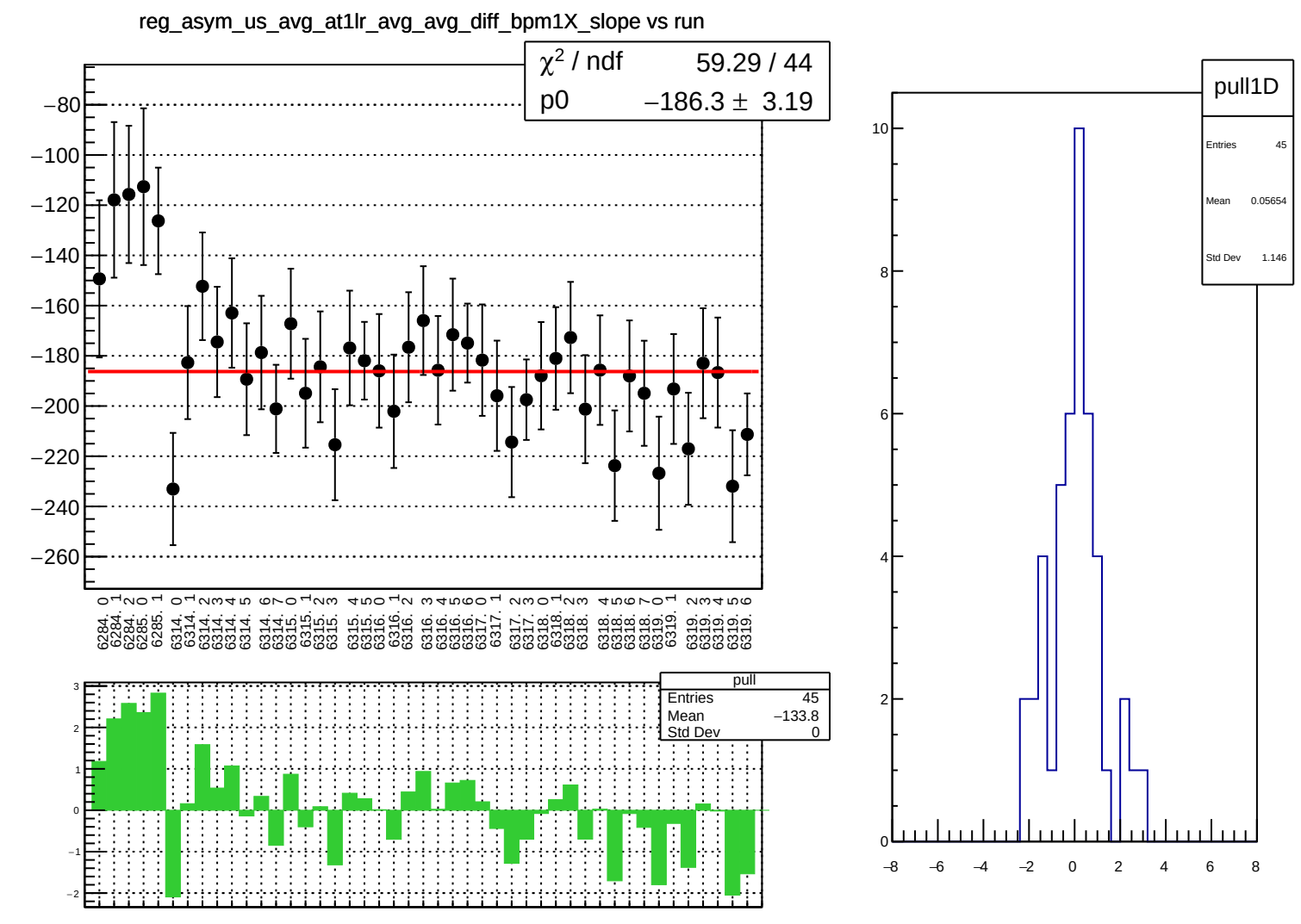

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.7 / 44
p0 38.25 ± 5.035
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −25.06
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.04694
Std Dev 0.5076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

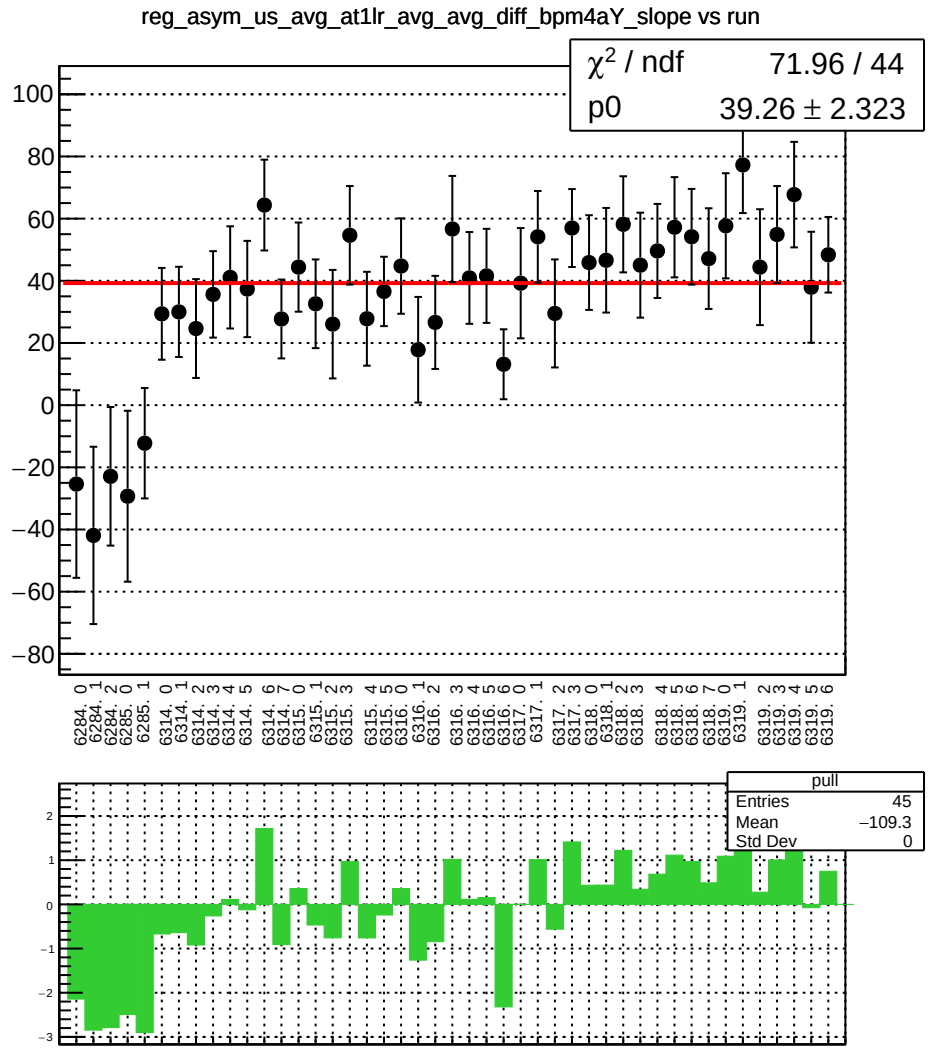

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.76 / 44
p0 −383.6 ± 7.098
pull
Entries 45
Mean −79.91
Std Dev 0

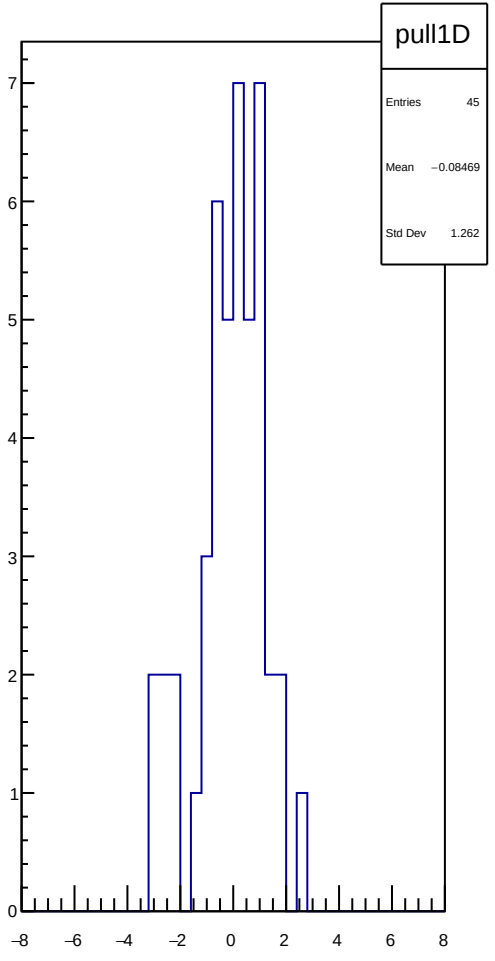

pull1D
Entries 45
Mean −0.05968
Std Dev 0.7242

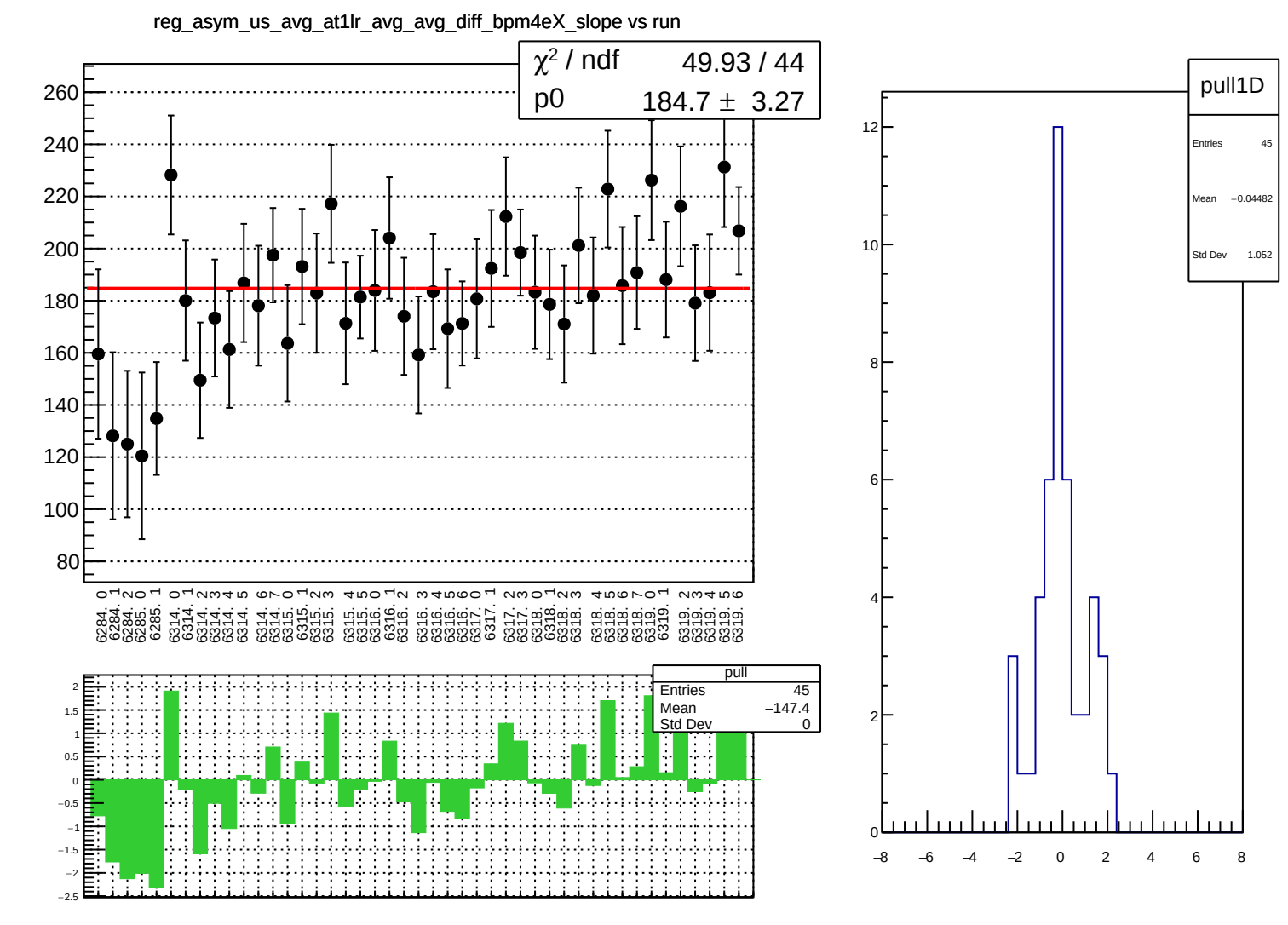

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.66 / 44
p0 −154 ± 6.209
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −37.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.065
Std Dev 0.6578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

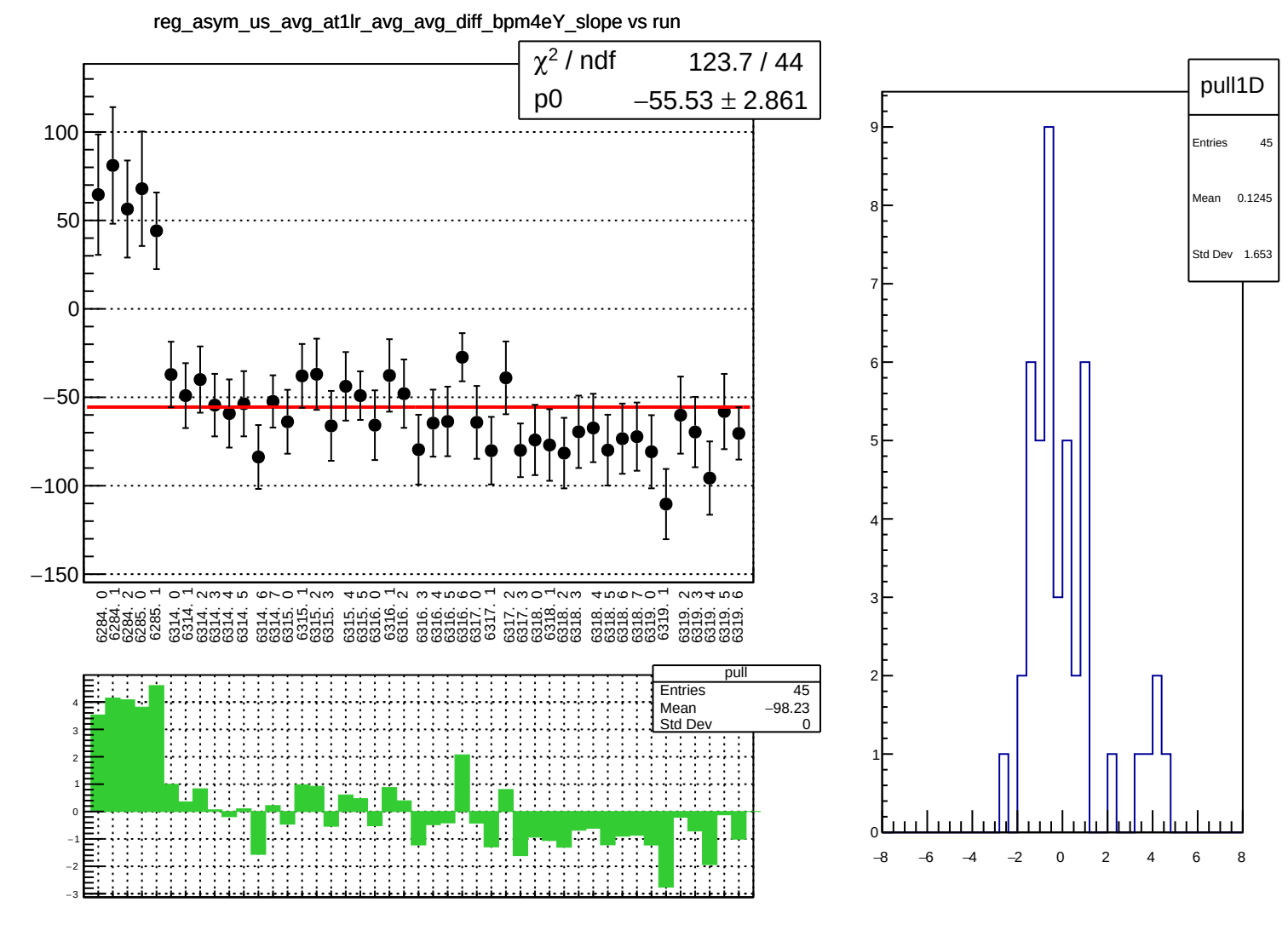

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.36 / 44
p0 164.7 ± 0.5138
185
180
175
170
165
160
155
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −60.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.09343
Std Dev 0.9771
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

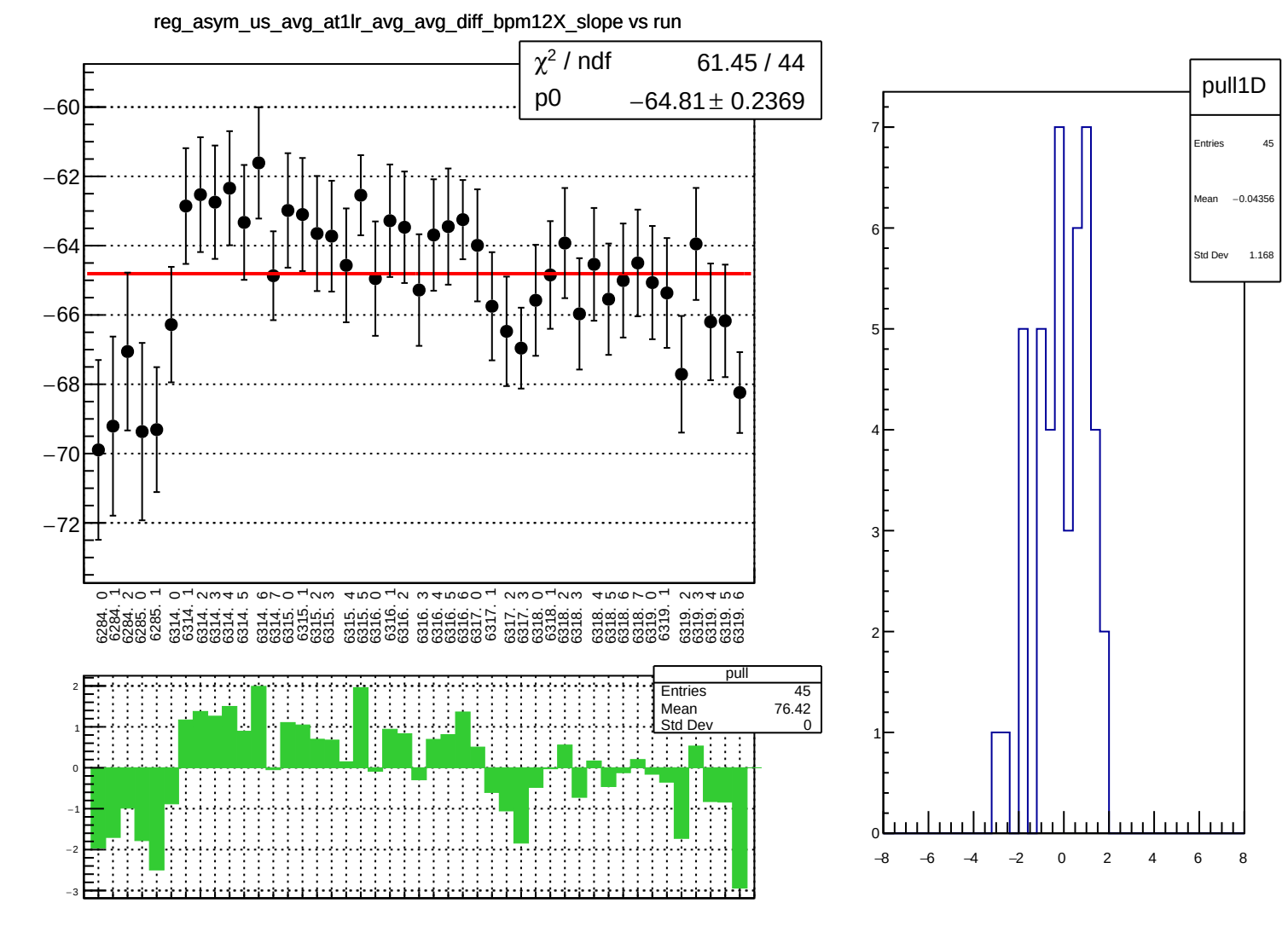

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 59.29 / 44
p0 −186.3 ± 3.19
pull
Entries 45
Mean −133.8
Std Dev 0
pull1D
Entries 45
Mean 0.05654
Std Dev 1.146

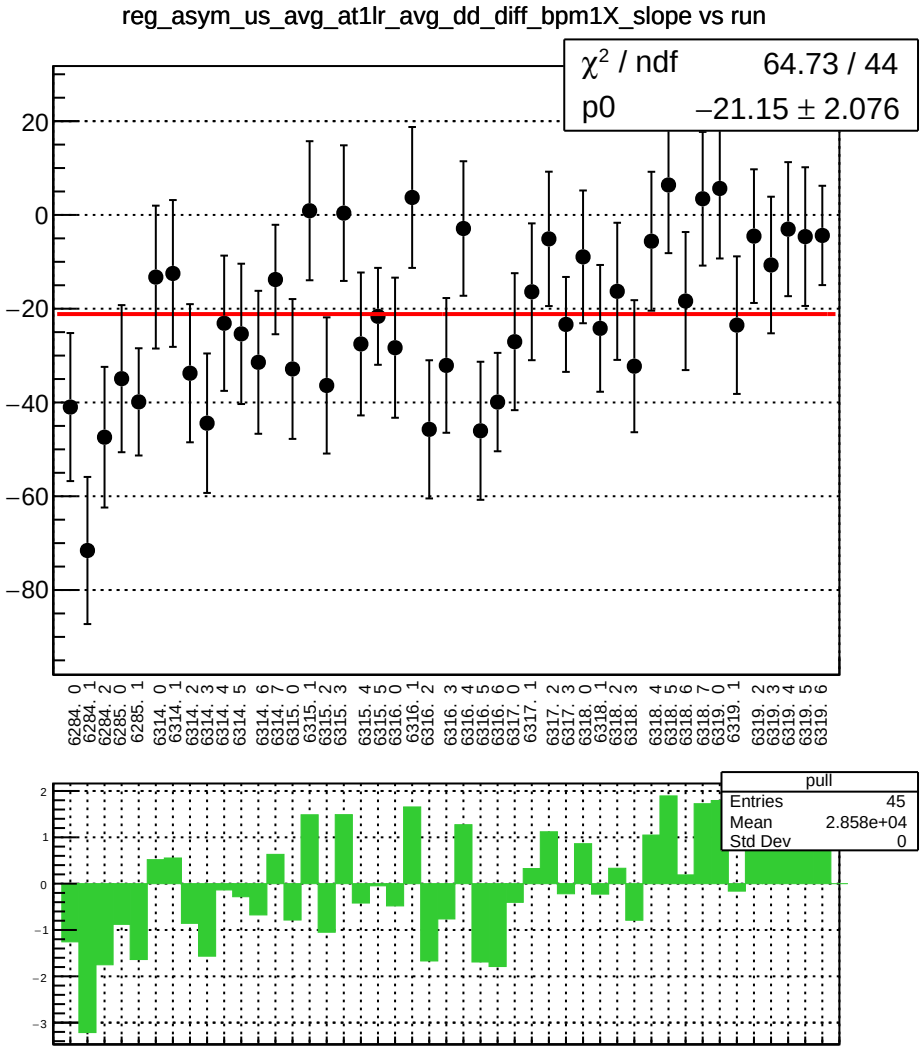

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.96 / 44
p0 39.26 ± 2.323
pull
Entries 45
Mean −109.3
Std Dev 0

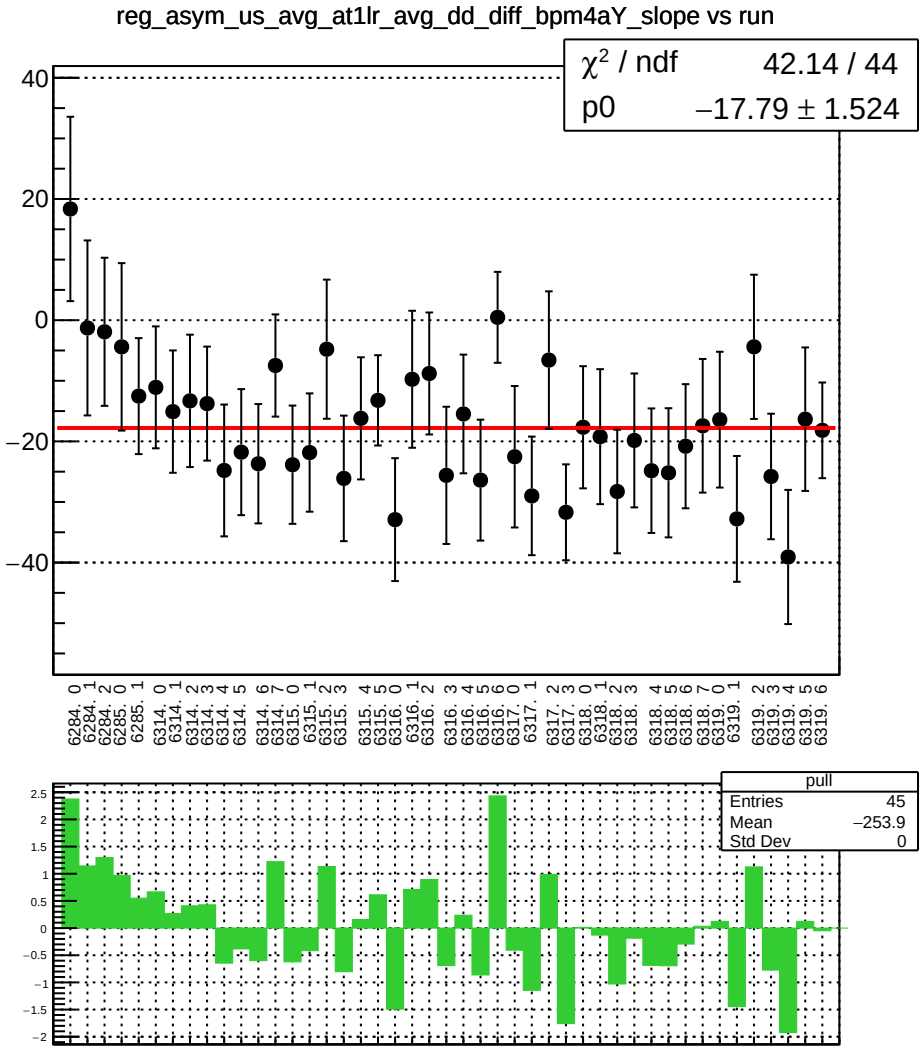

pull1D
Entries 45
Mean −0.08469
Std Dev 1.262

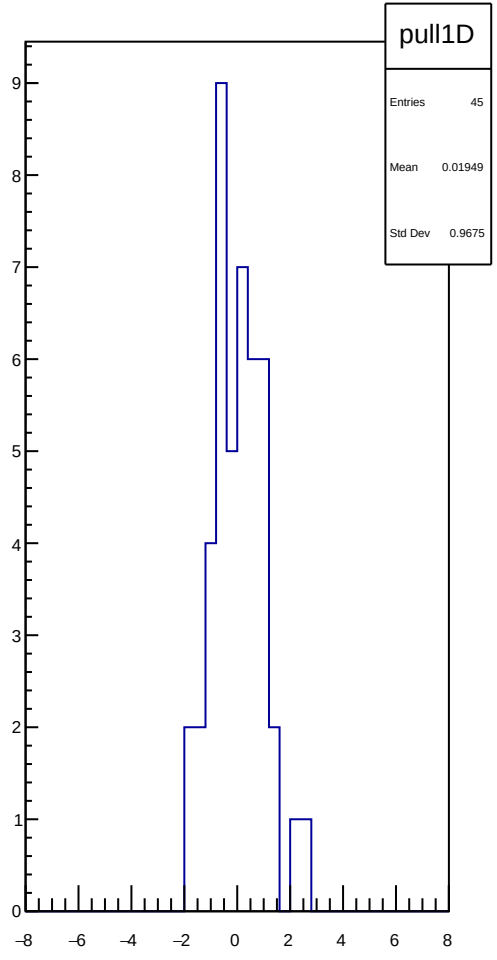

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.93 / 44
p0 184.7 ± 3.27
pull
Entries 45
Mean −147.4
Std Dev 0
pull1D
Entries 45
Mean −0.04482
Std Dev 1.052

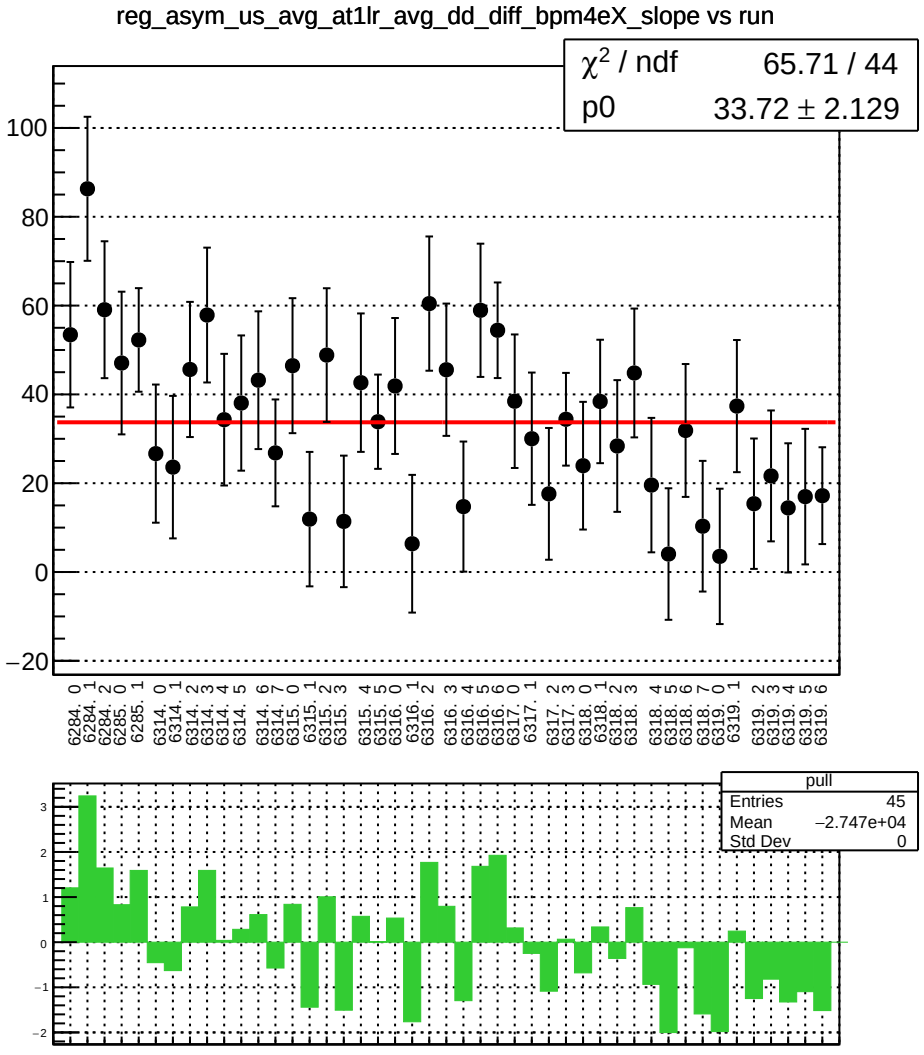

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 123.7 / 44
p0 −55.53 ± 2.861
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −98.23
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.1245
Std Dev 1.653
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

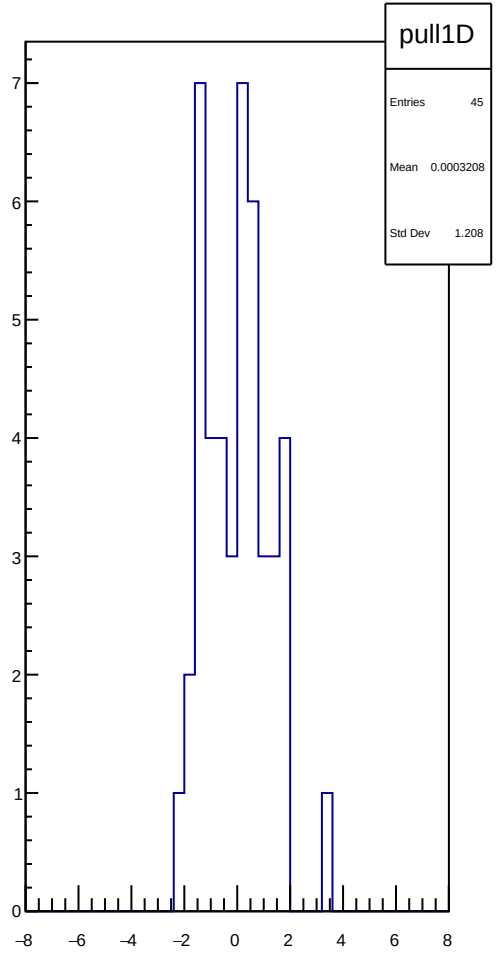

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 61.45 / 44
p0 −64.81 ± 0.2369
−60
−62
−64
−66
−68
−70
−72
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 76.42
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.04356
Std Dev 1.168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

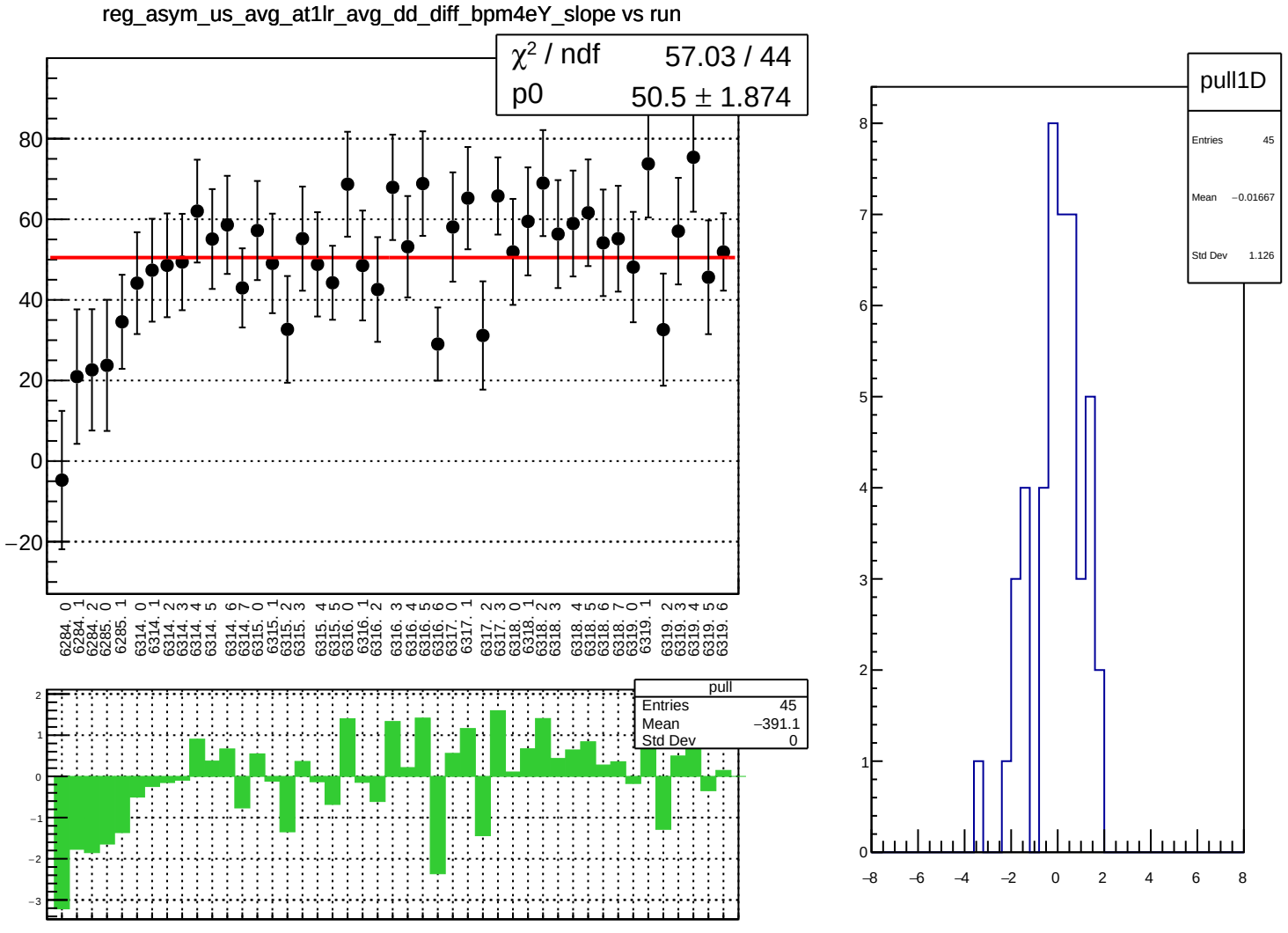

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 64.73 / 44
p0 −21.15 ± 2.076
pull
Entries 45
Mean 2.858e+04
Std Dev 0
pull1D
Entries 45
Mean 0.0003132
Std Dev 1.199

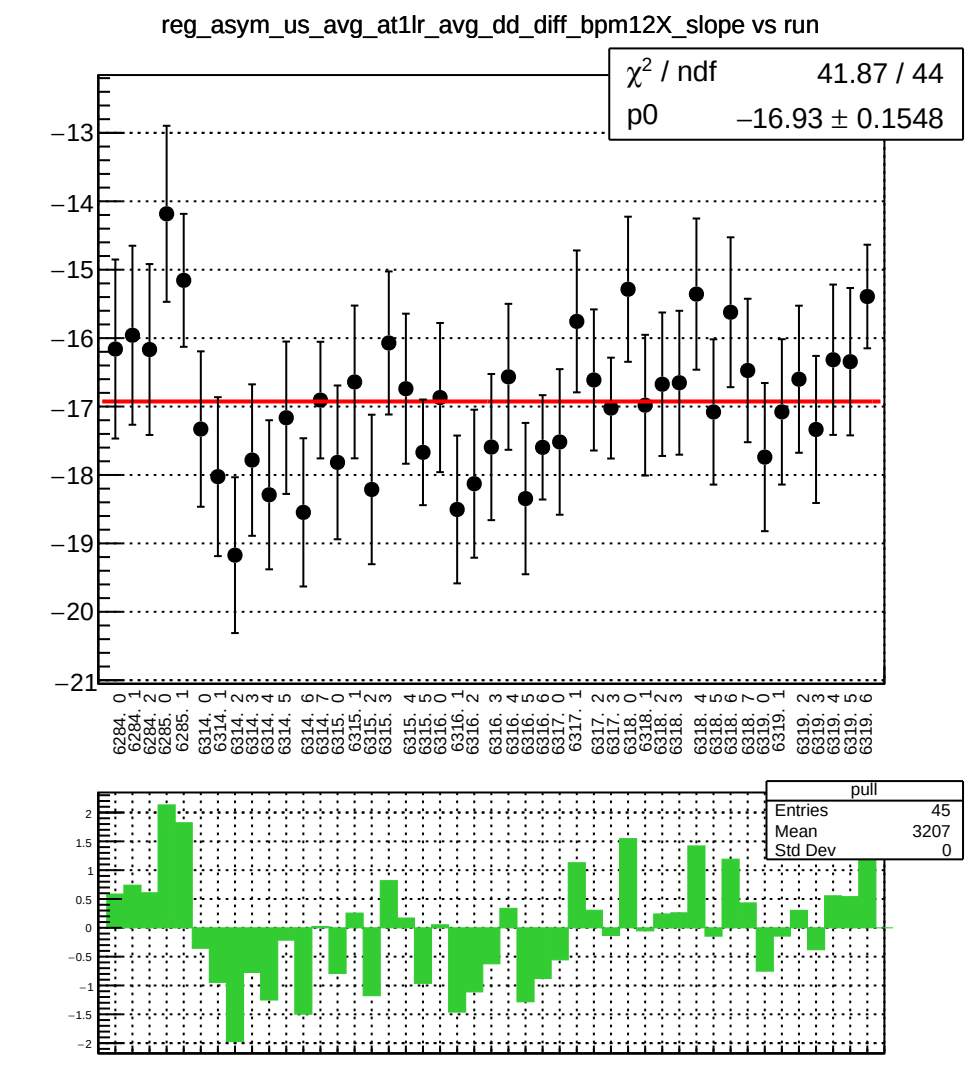

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.14 / 44
p0 −17.79 ± 1.524
pull
Entries 45
Mean −253.9
Std Dev 0

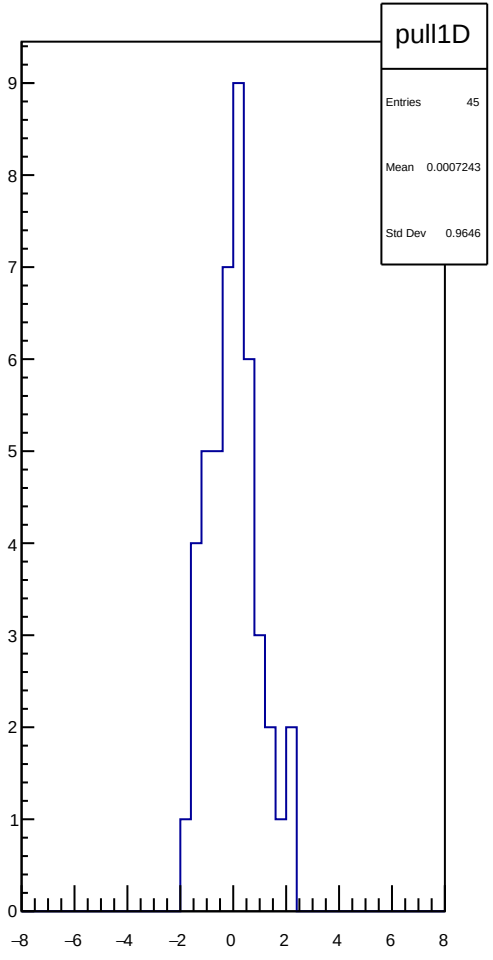

pull1D
Entries 45
Mean 0.01949
Std Dev 0.9675

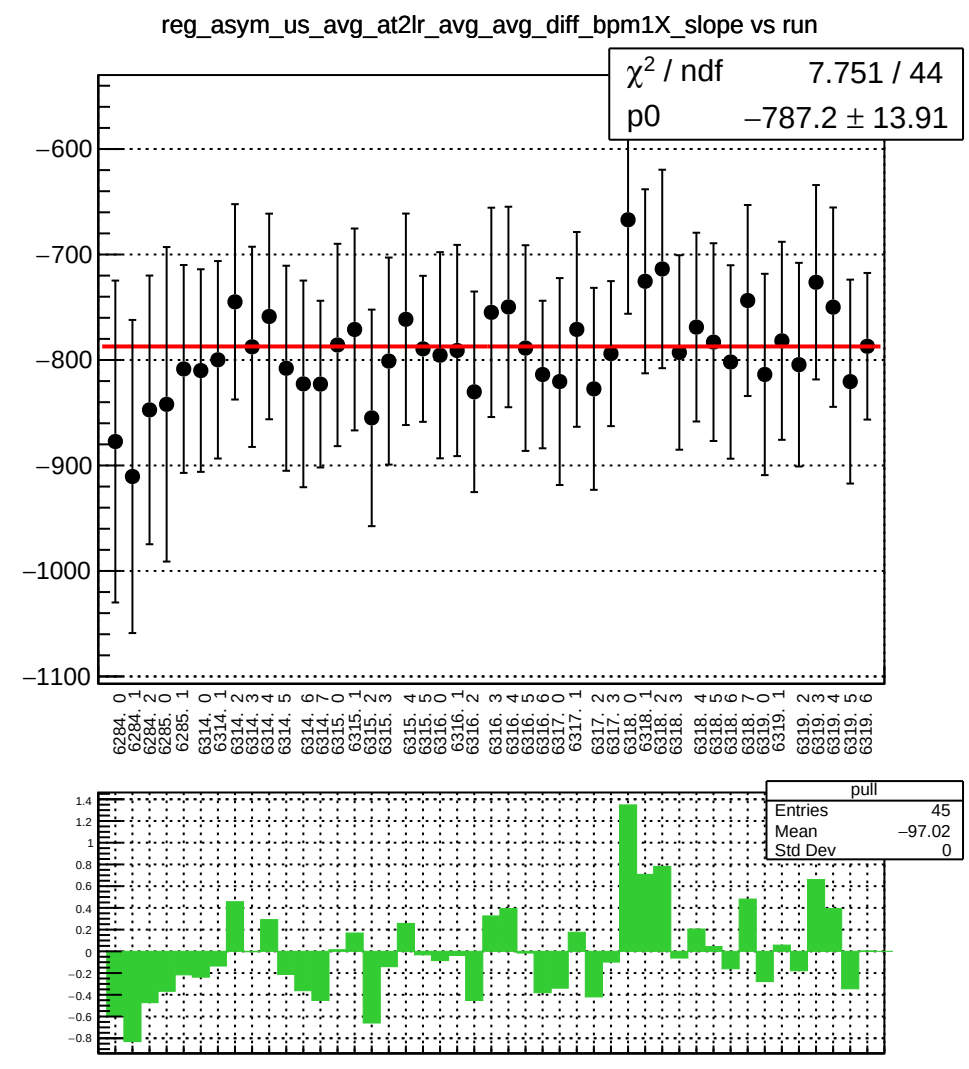

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.71 / 44
p0 33.72 ± 2.129
pull
Entries 45
Mean −2.747e+04
Std Dev 0

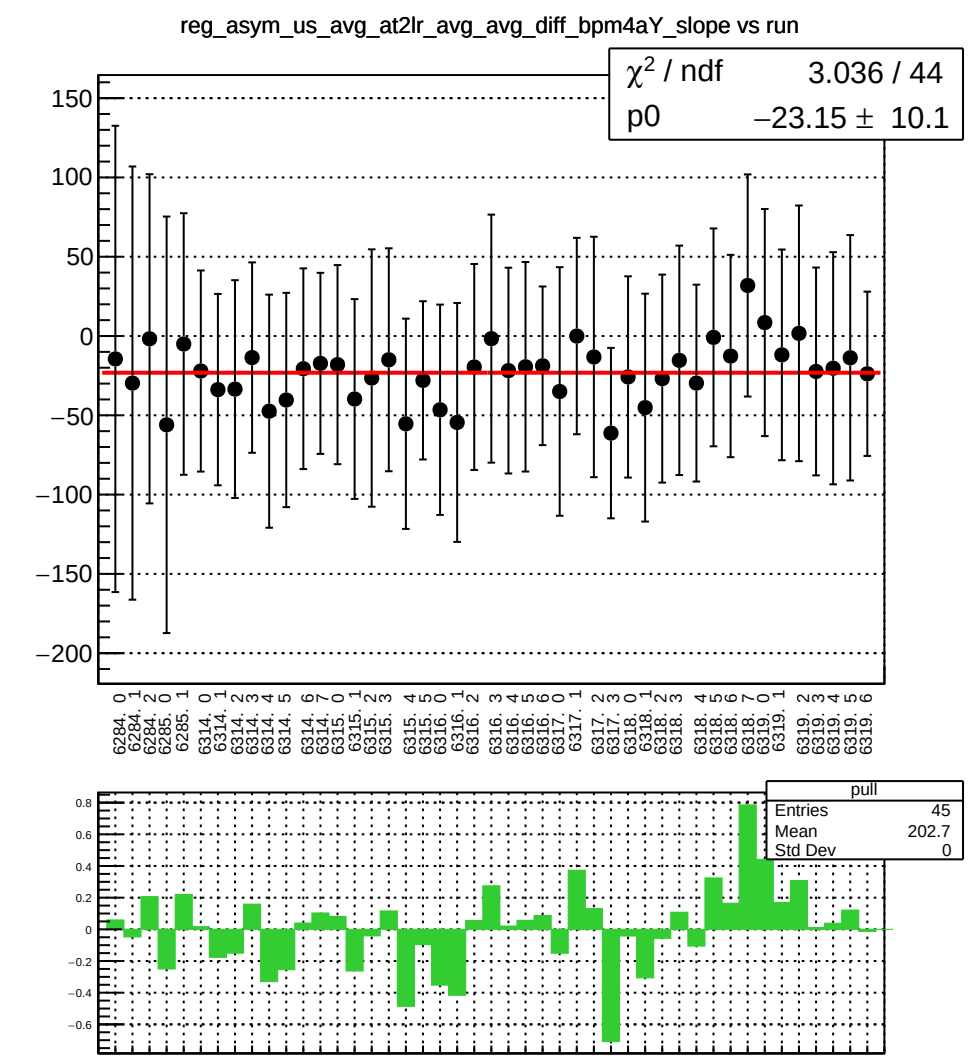

pull1D
Entries 45
Mean 0.0003208
Std Dev 1.208

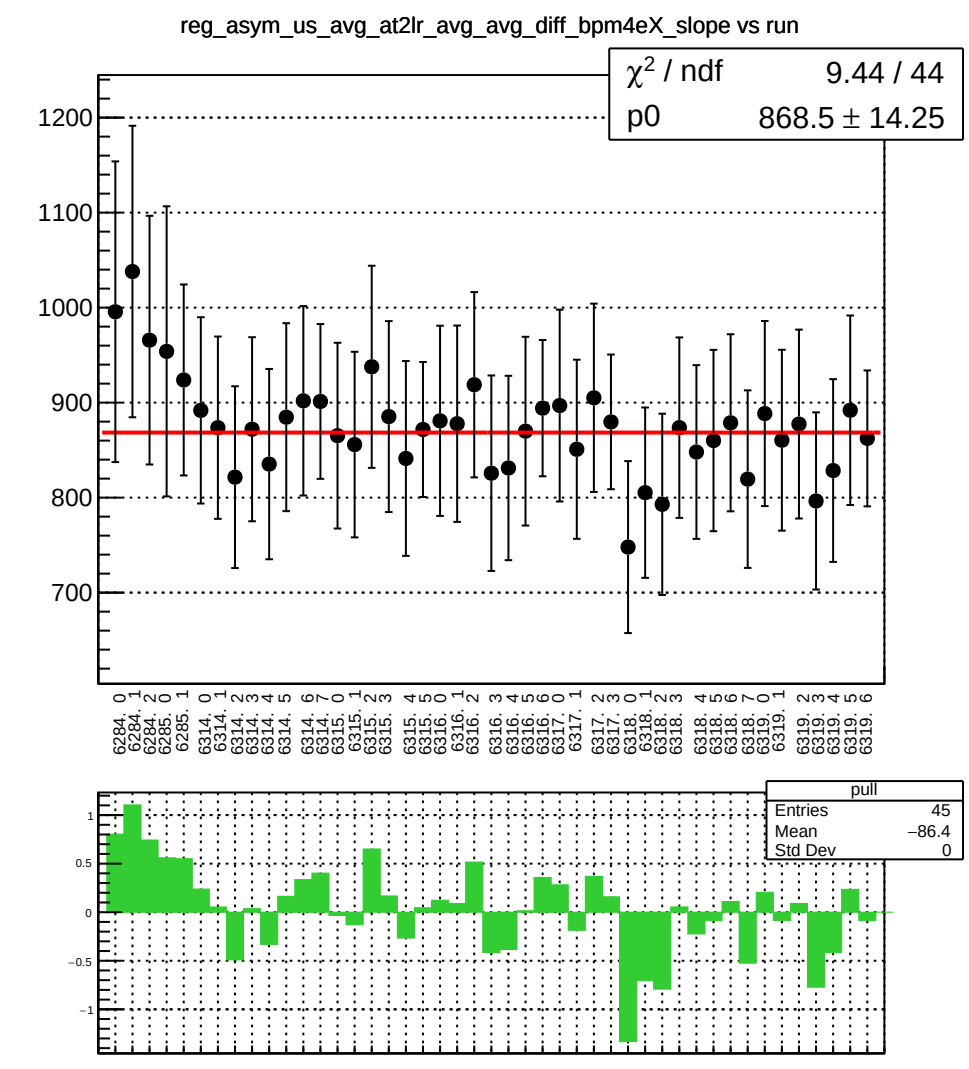

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.03 / 44
p0 50.5 ± 1.874
pull
Entries 45
Mean −391.1
Std Dev 0
pull1D
Entries 45
Mean −0.01667
Std Dev 1.126

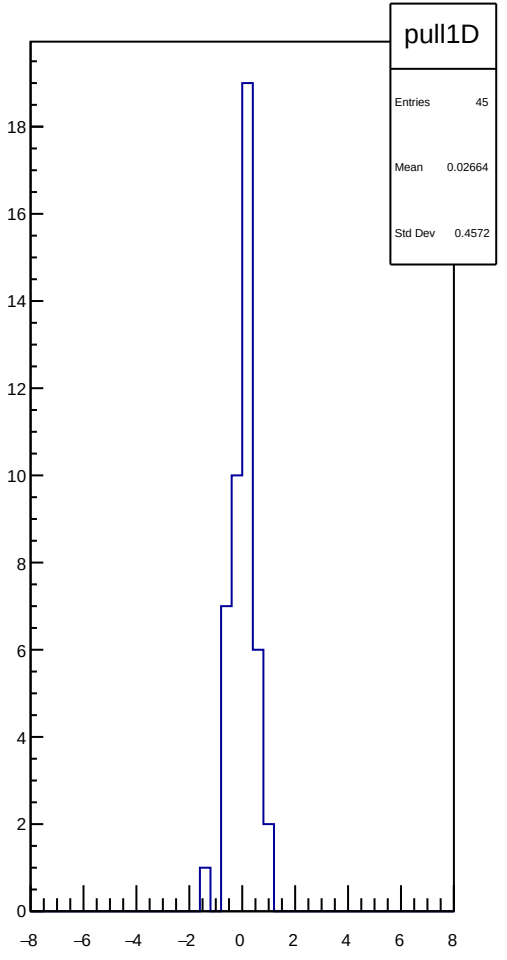

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.87 / 44
p0 −16.93 ± 0.1548
pull
Entries 45
Mean 3207
Std Dev 0

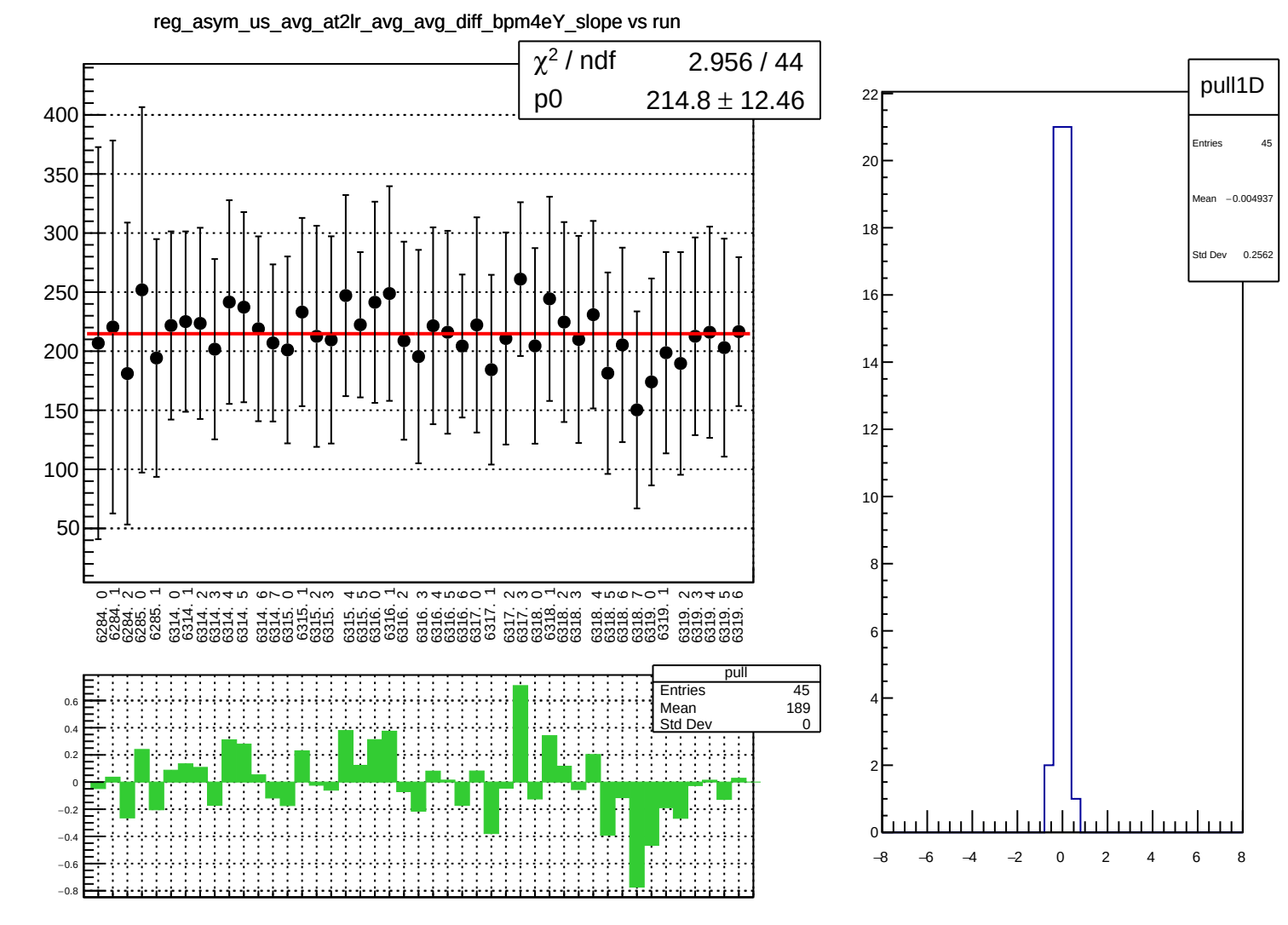

pull1D
Entries 45
Mean 0.0007243
Std Dev 0.9646

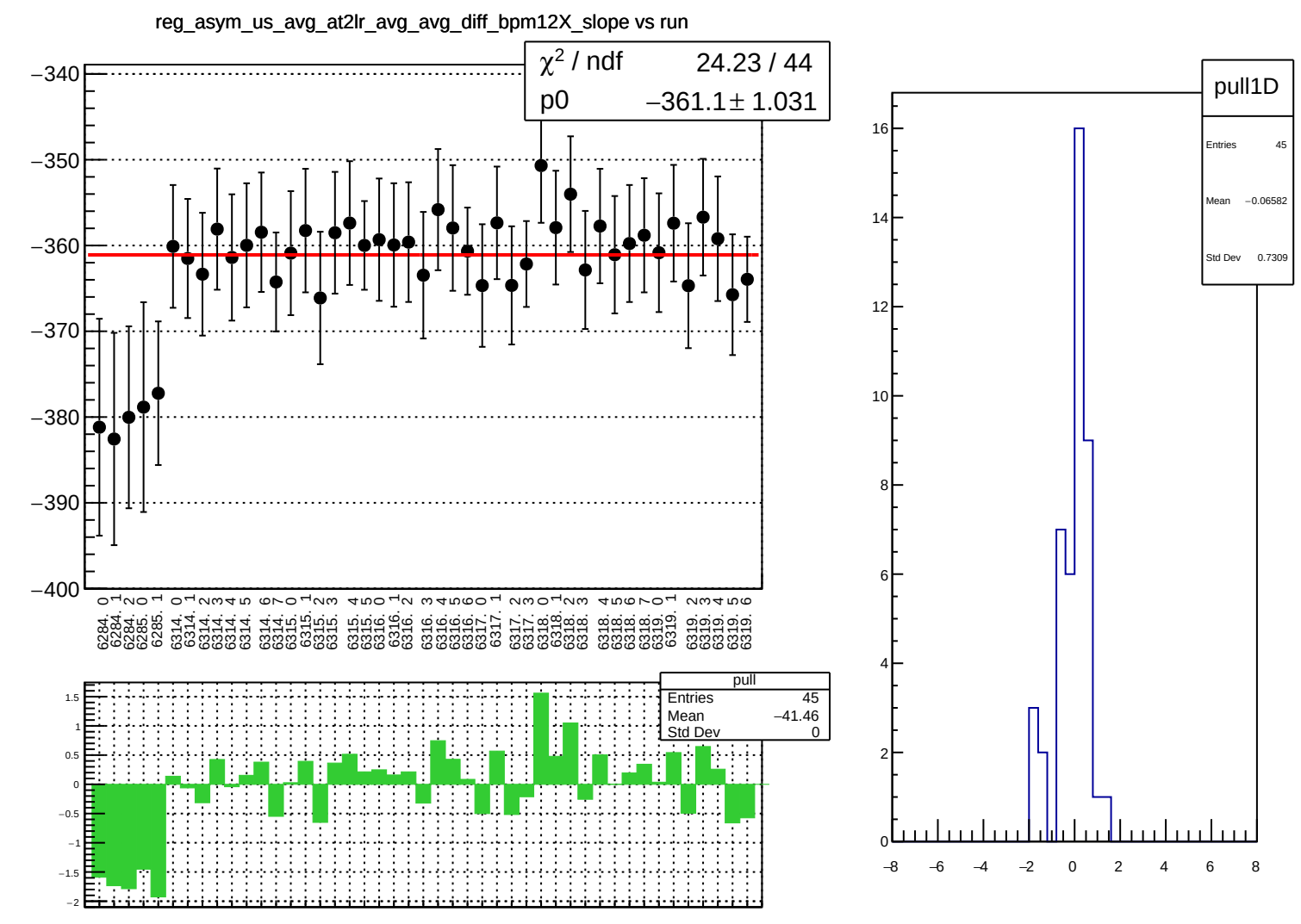

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.751 / 44
p0 −787.2 ± 13.91
−600
−700
−800
−900
−1000
−1100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −97.02
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.01774
Std Dev 0.4146
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

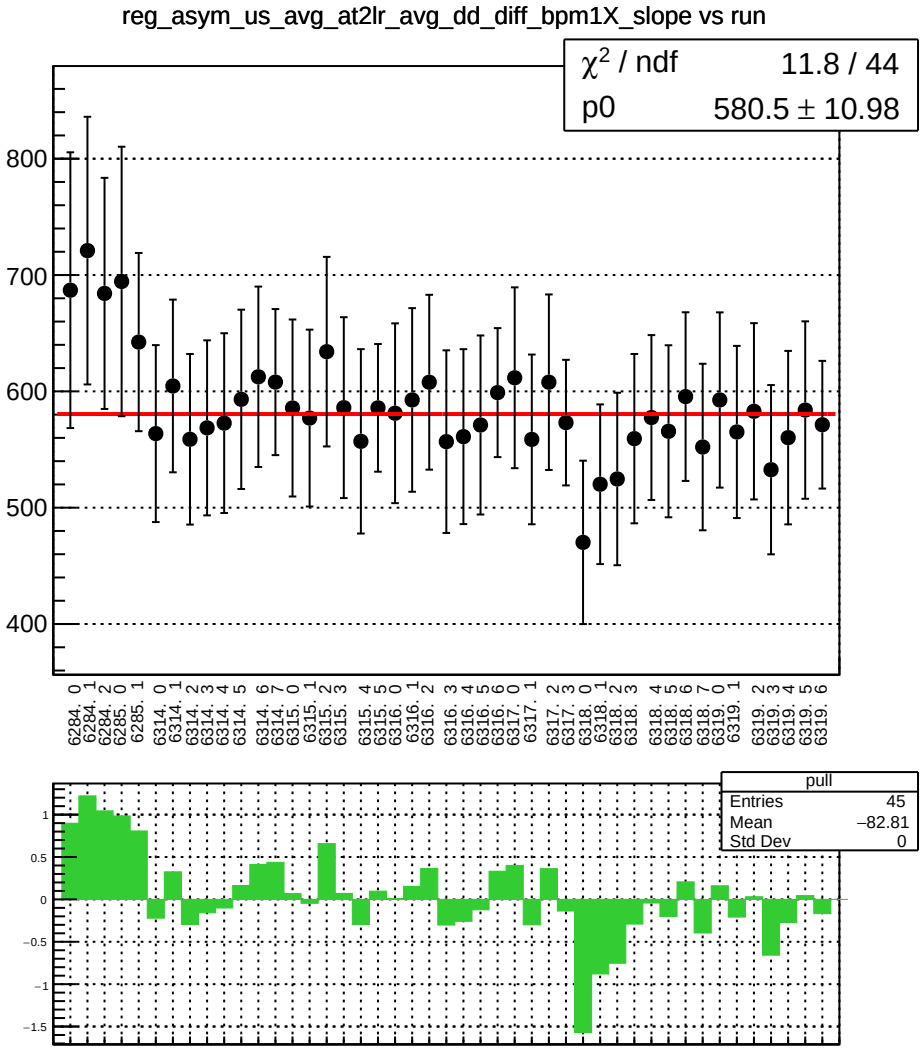

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.036 / 44
p0 −23.15 ± 10.1
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 202.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.005089
Std Dev 0.2597
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

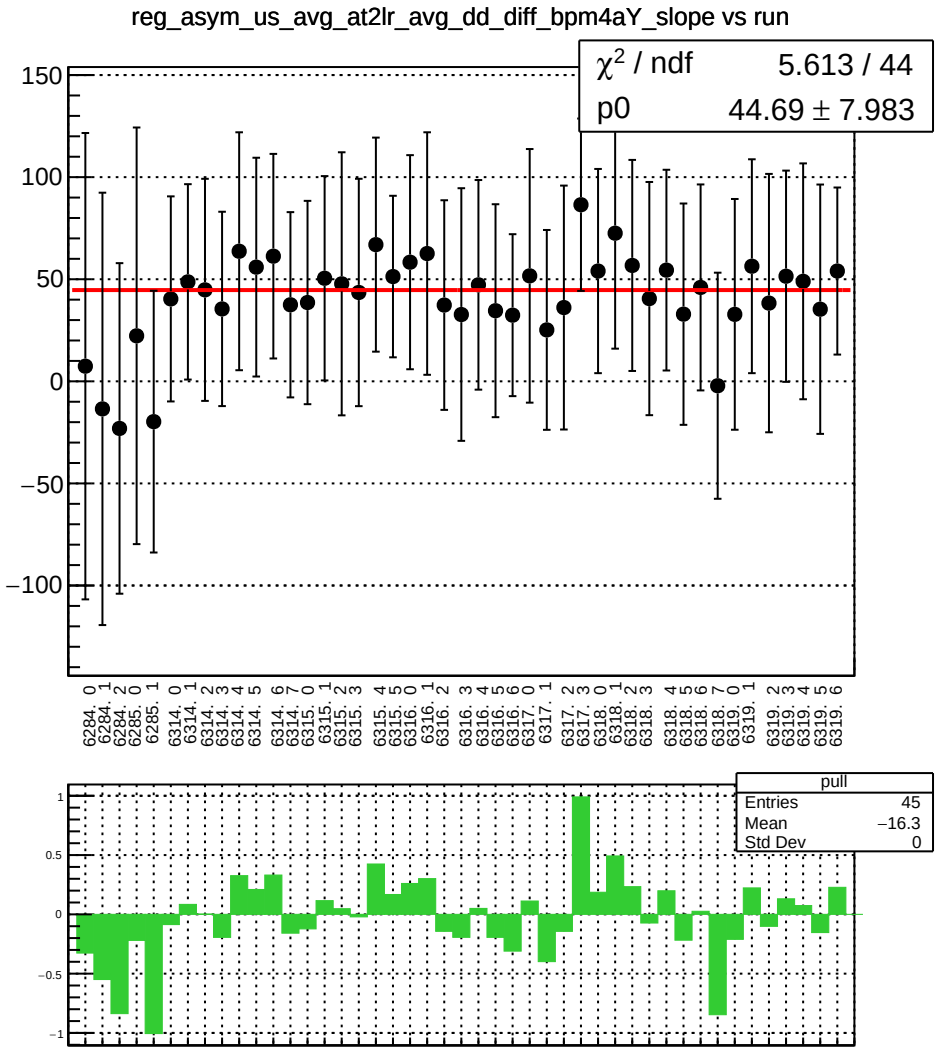

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.44 / 44
p0 868.5 ± 14.25
1200
1100
1000
900
800
700
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −86.4
Std Dev 0
1
0.5
0
−0.5
−1

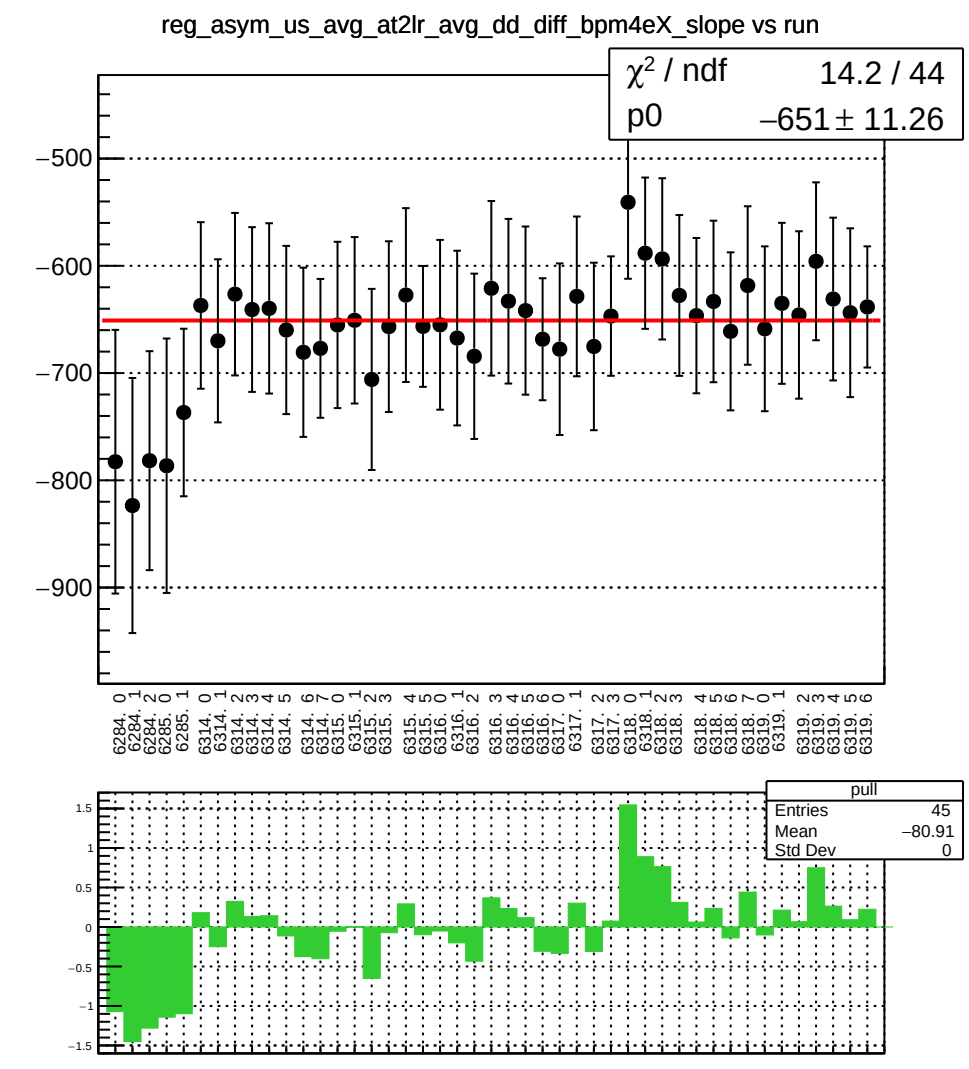

pull1D
Entries 45
Mean 0.02664
Std Dev 0.4572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

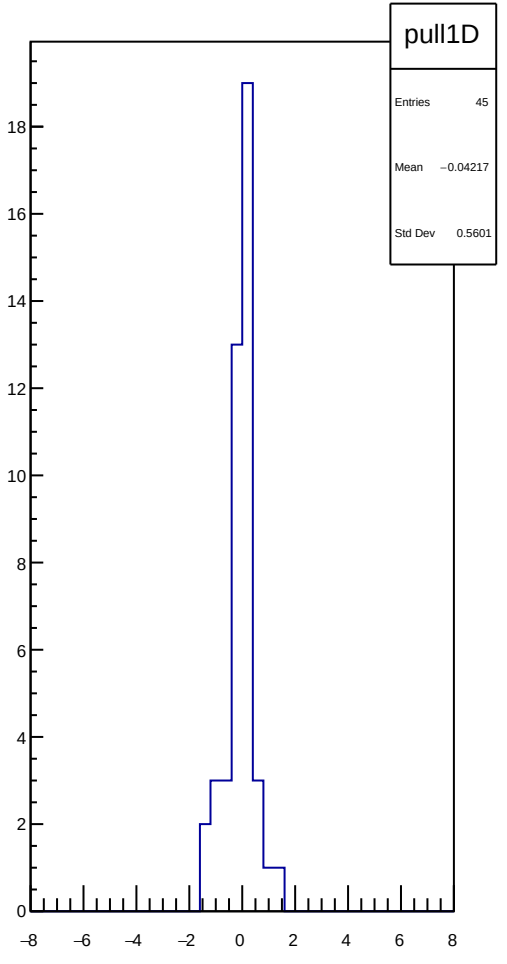

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.956 / 44
p0 214.8 ± 12.46
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 189
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.004937
Std Dev 0.2562
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

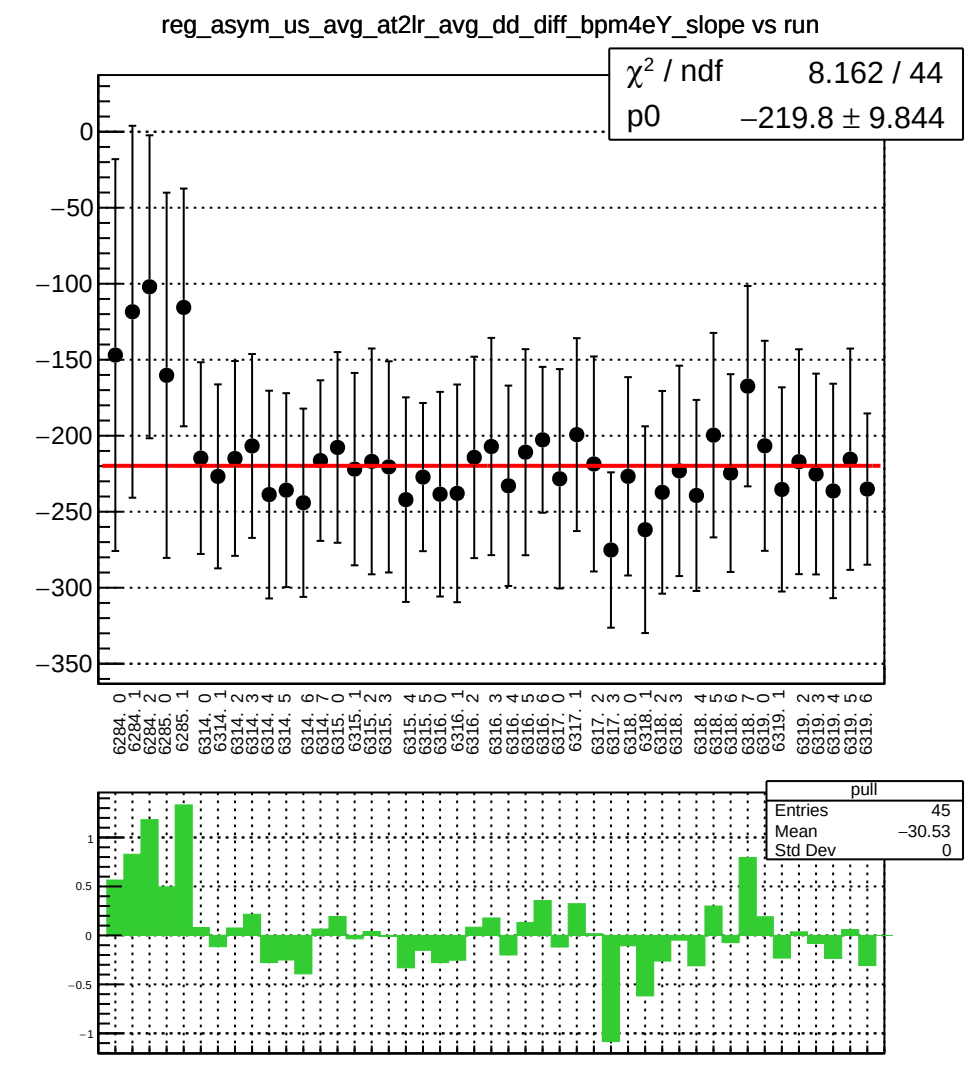

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 24.23 / 44
p0 −361.1 ± 1.031
−340
−350
−360
−370
−380
−390
−400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −41.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.06582
Std Dev 0.7309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

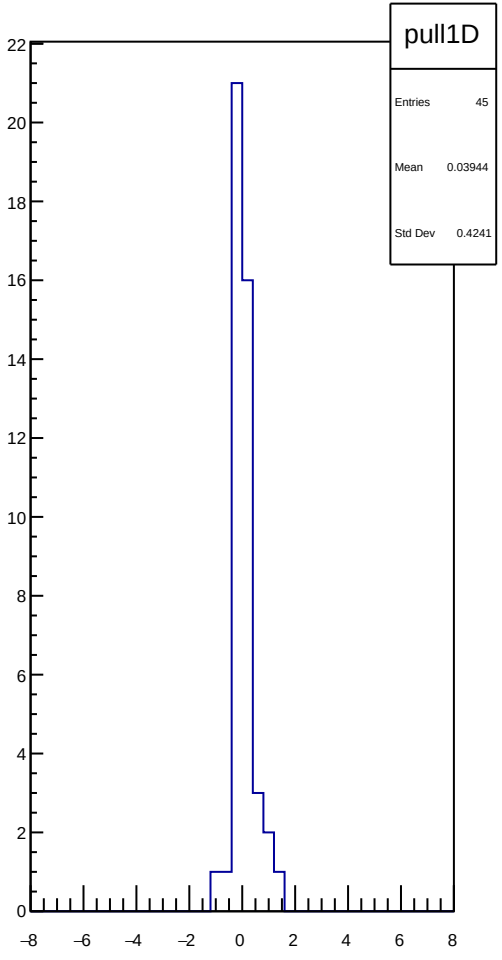

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.8 / 44
p0 580.5 ± 10.98
800
700
600
500
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −82.81
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0349
Std Dev 0.5108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

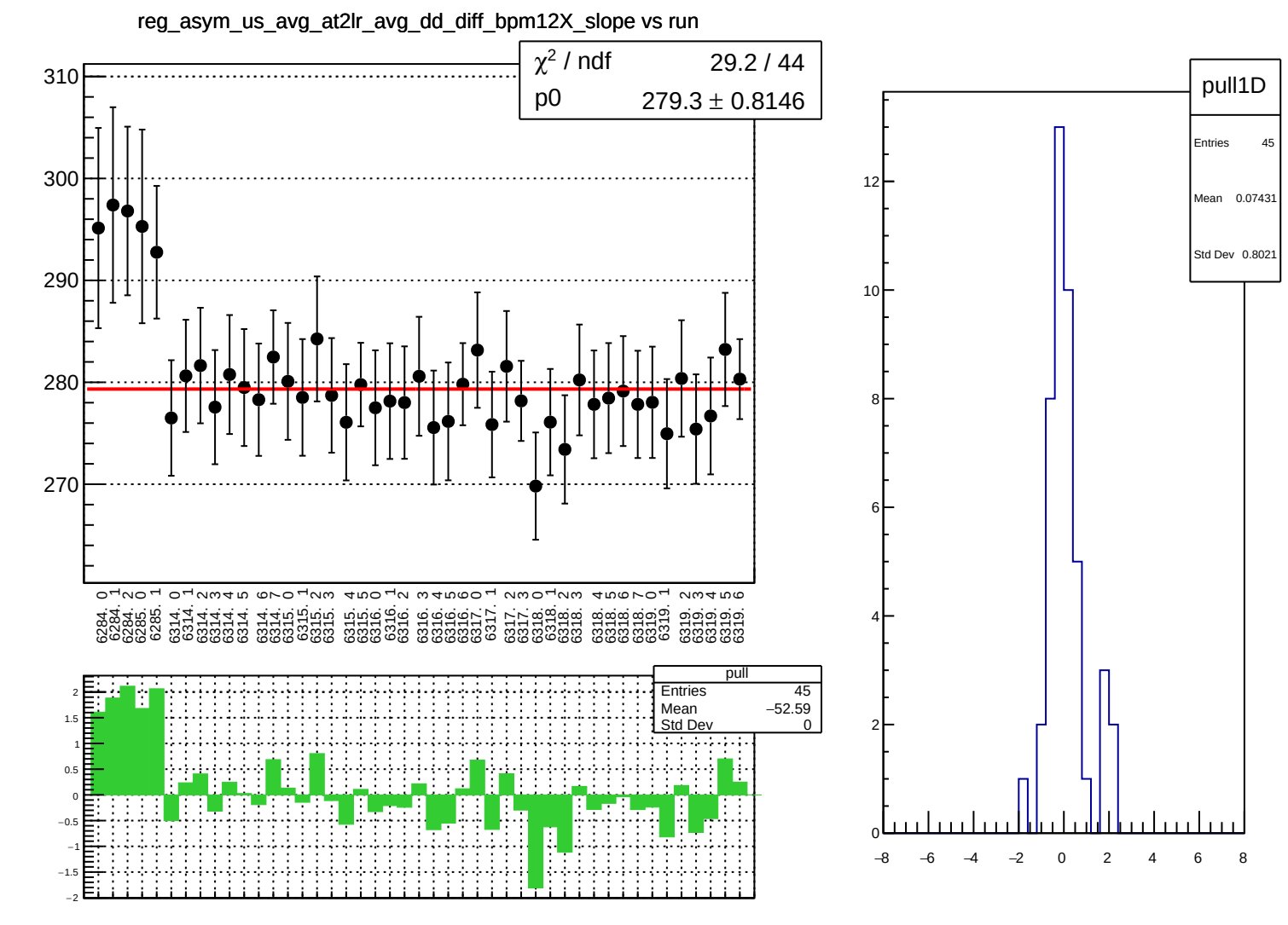

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.613 / 44
p0 44.69 ± 7.983
150
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −16.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.02862
Std Dev 0.352
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

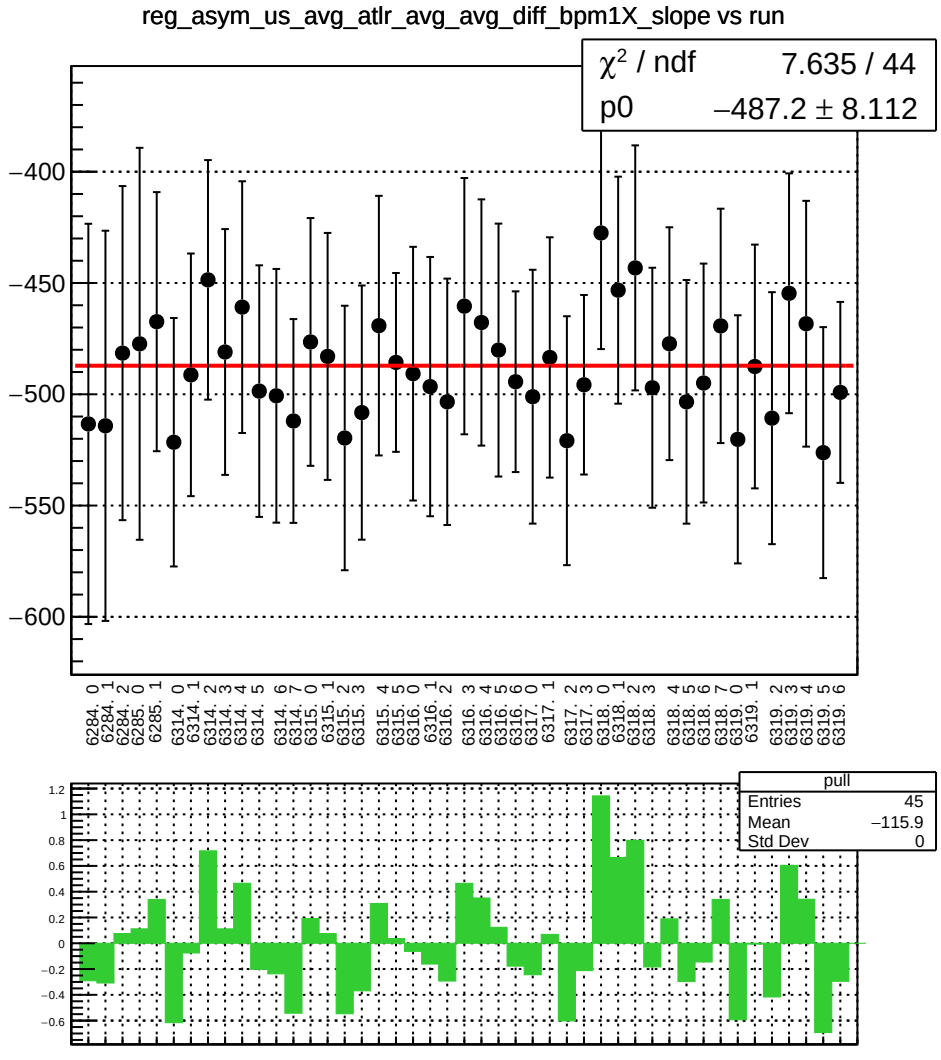

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.2 / 44
p0 −651 ± 11.26
−500
−600
−700
−800
−900
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −80.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

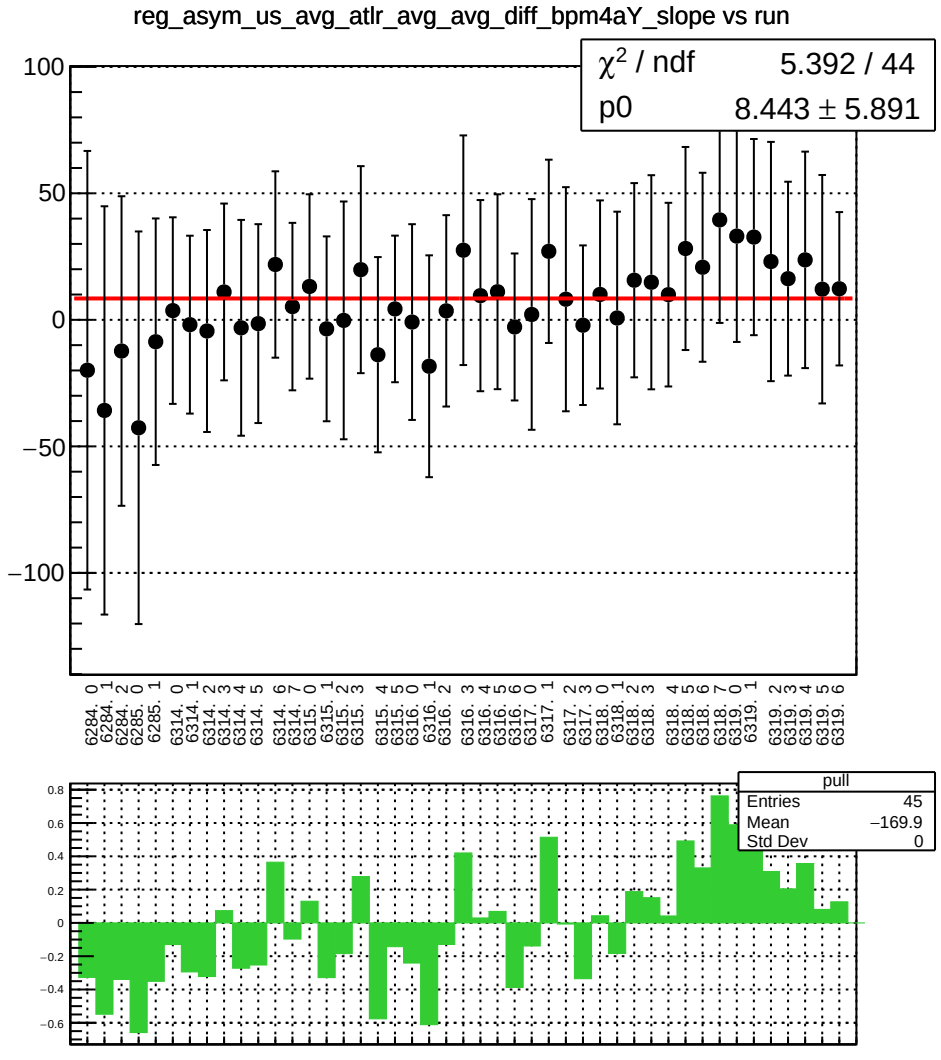

pull1D
Entries 45
Mean −0.04217
Std Dev 0.5601
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

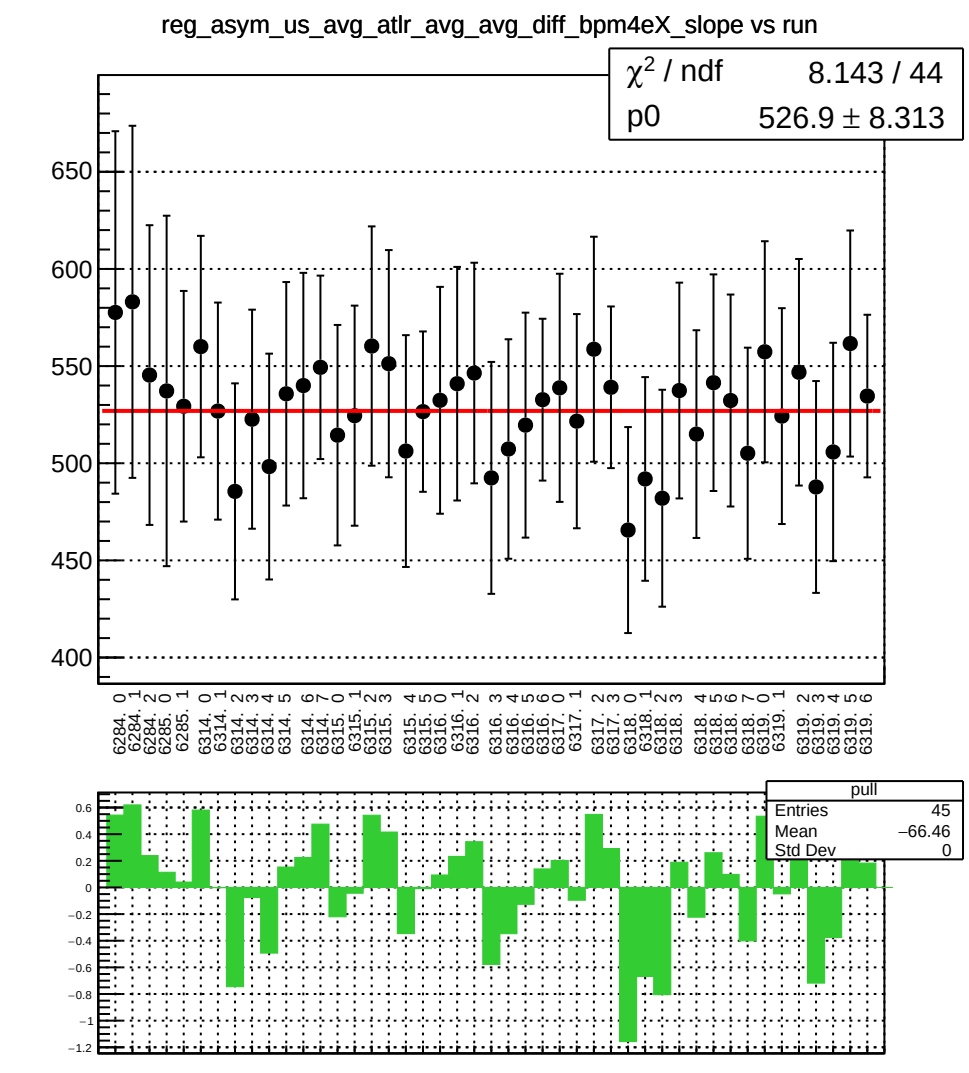

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.162 / 44
p0 −219.8 ± 9.844
pull
Entries 45
Mean −30.53
Std Dev 0

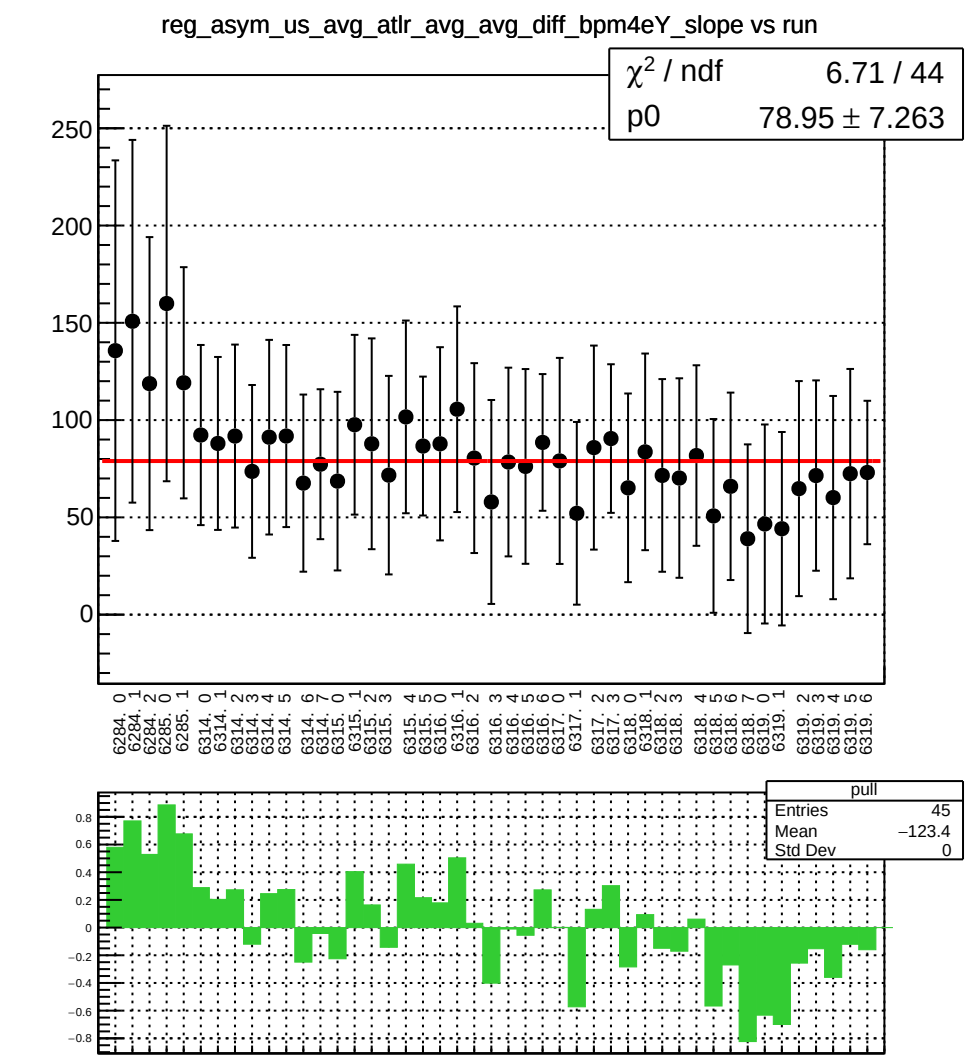

pull1D
Entries 45
Mean 0.03944
Std Dev 0.4241

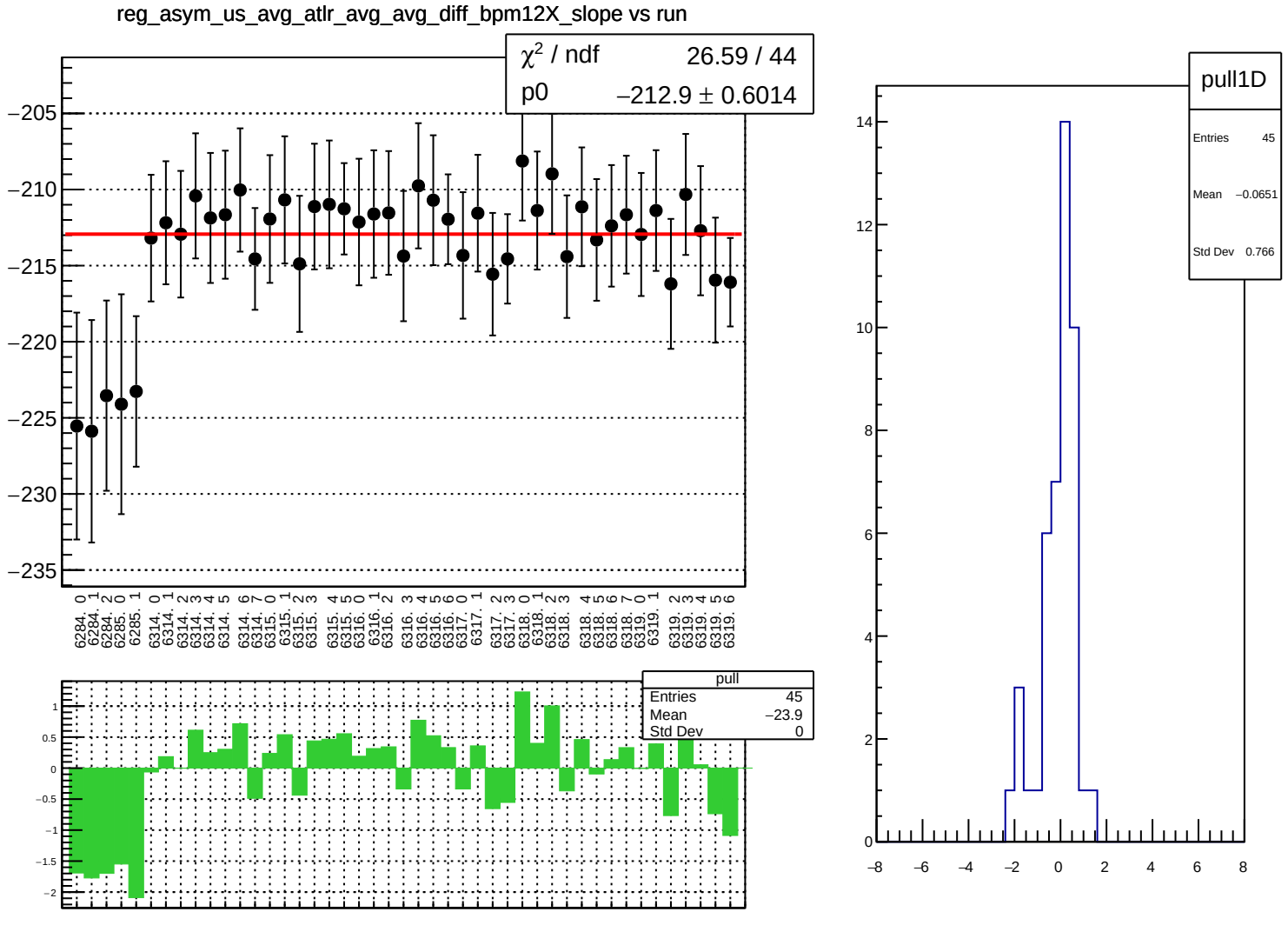

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 29.2 / 44
p0 279.3 ± 0.8146
310
300
290
280
270
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −52.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.07431
Std Dev 0.8021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

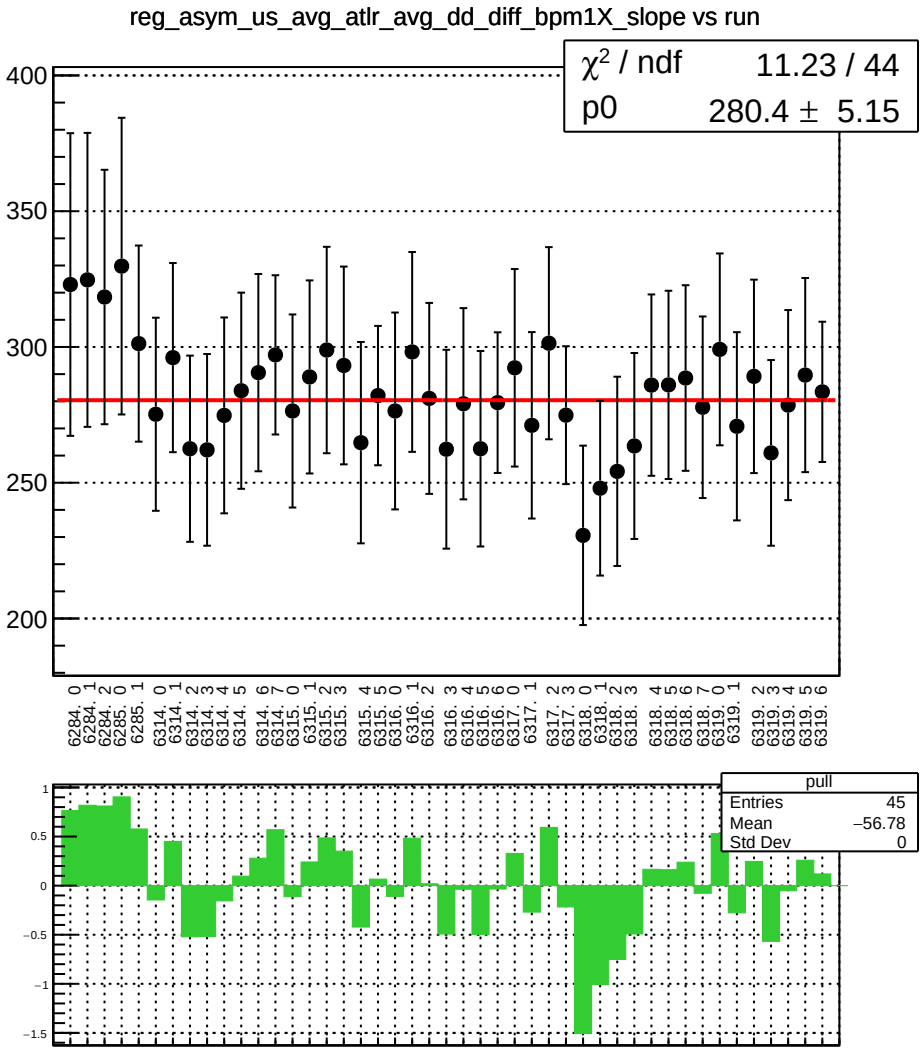

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.635 / 44
p0 −487.2 ± 8.112
−400
−450
−500
−550
−600
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −115.9
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.00109
Std Dev 0.4119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

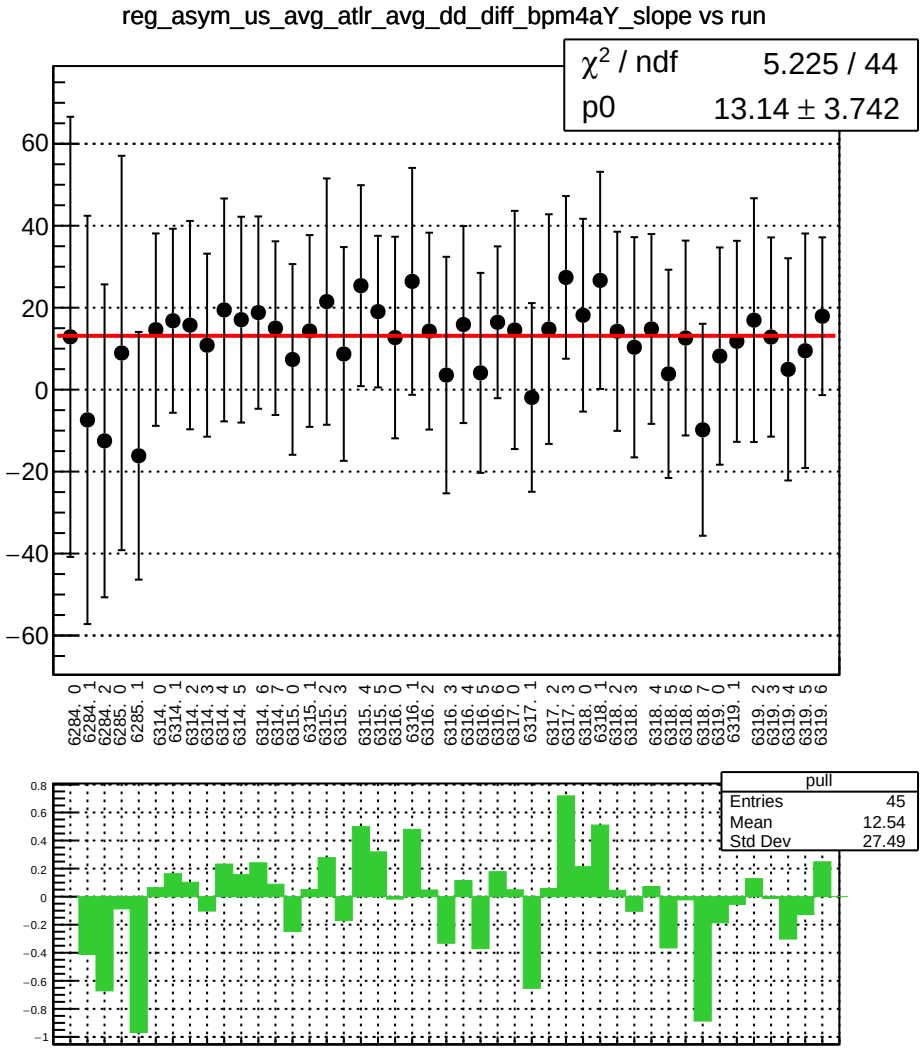

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.392 / 44
p0 8.443 ± 5.891
100
50
0
−50
−100
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −169.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.01503
Std Dev 0.3458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

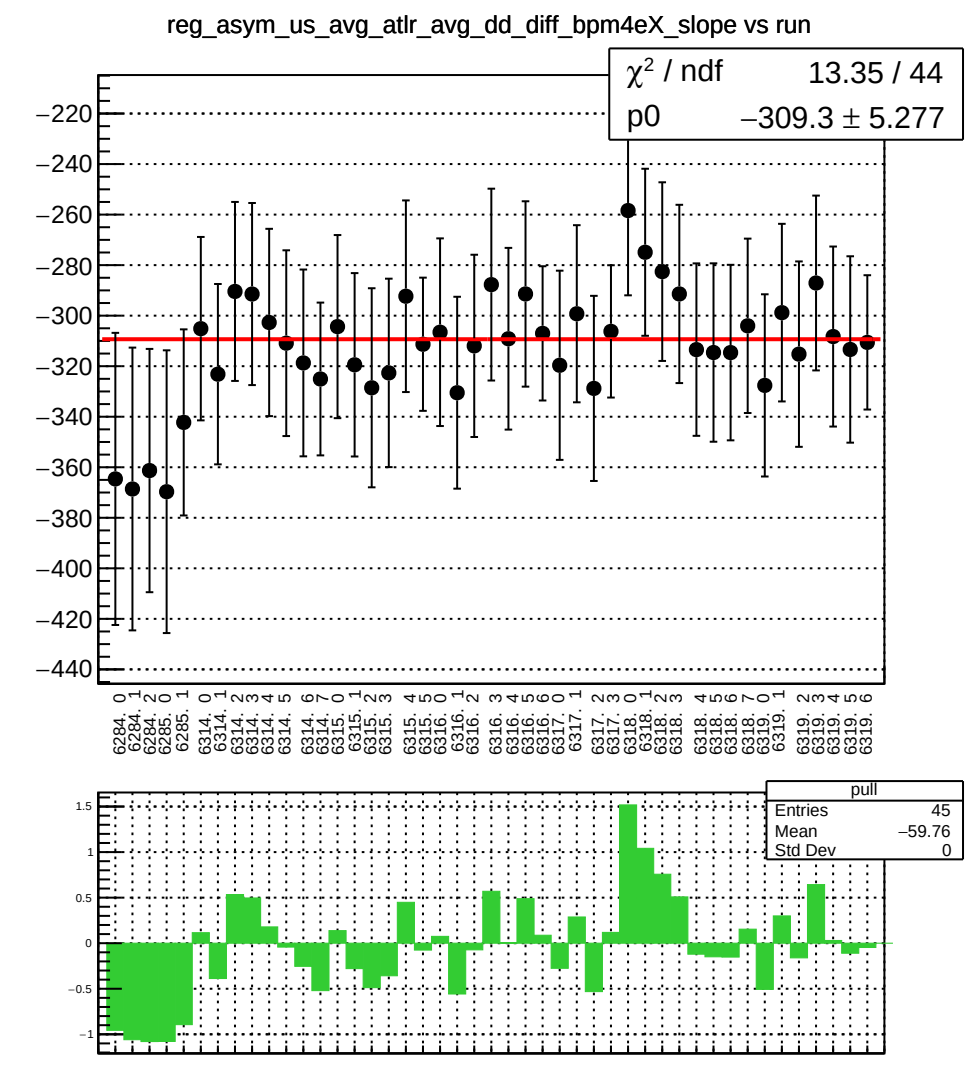

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.143 / 44
p0 526.9 ± 8.313
650
600
550
500
450
400
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −66.46
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.01165
Std Dev 0.4252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

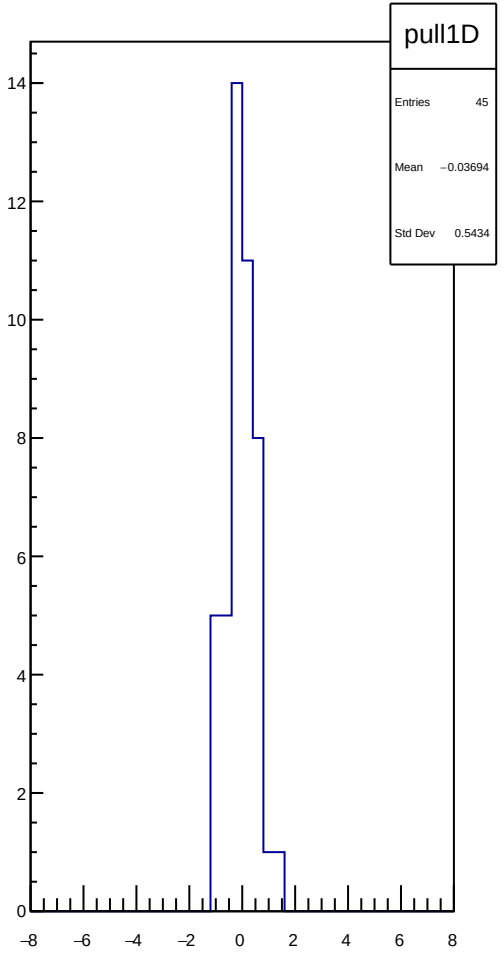

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.71 / 44
p0 78.95 ± 7.263
250
200
150
100
50
0
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −123.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.02409
Std Dev 0.3854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

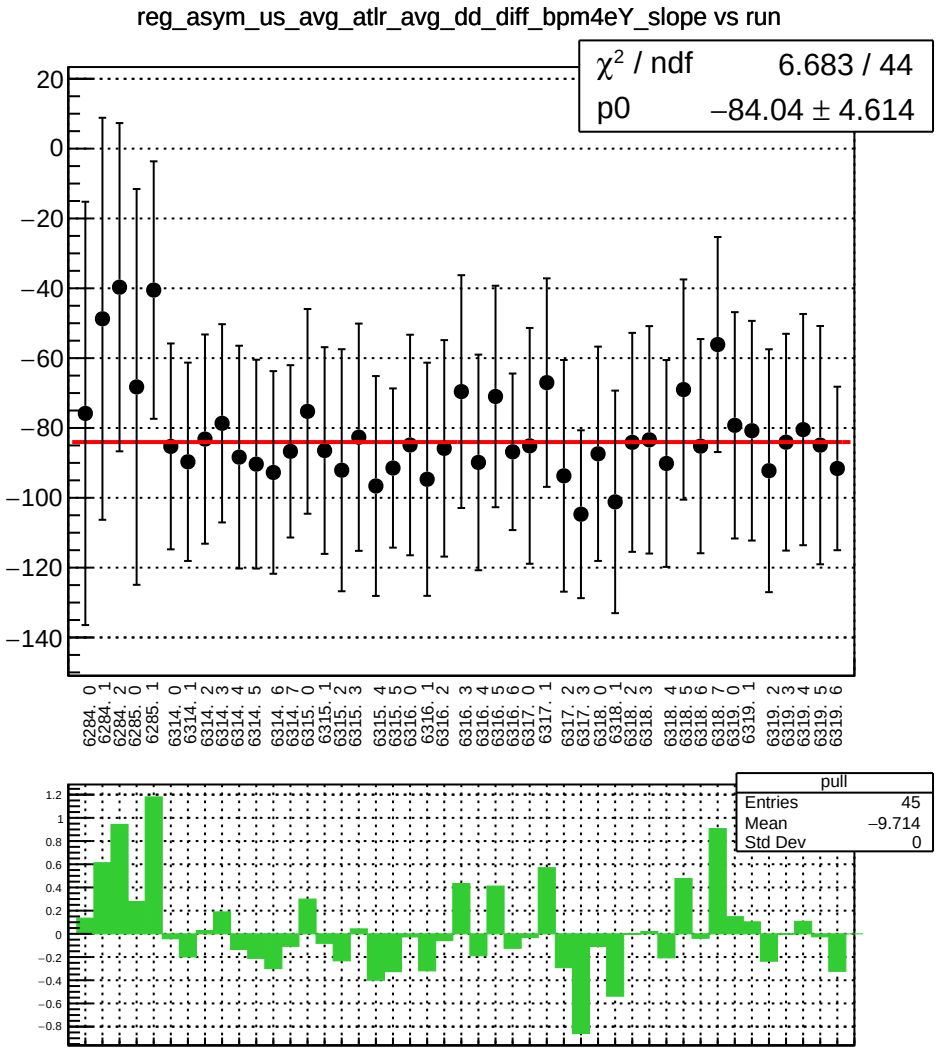

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.59 / 44
p0 −212.9 ± 0.6014
pull
Entries 45
Mean −23.9
Std Dev 0
pull1D
Entries 45
Mean −0.0651
Std Dev 0.766

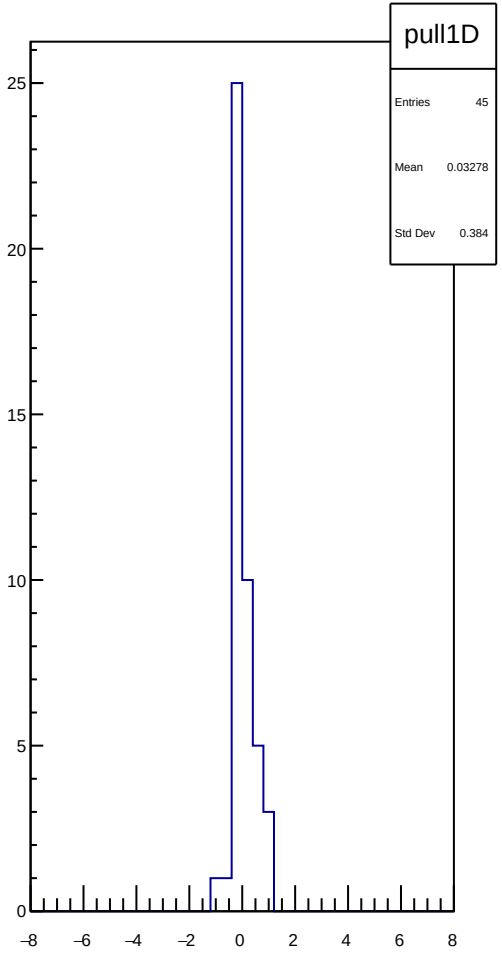

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.23 / 44
p0 280.4 ± 5.15
400
350
300
250
200
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −56.78
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02889
Std Dev 0.4986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

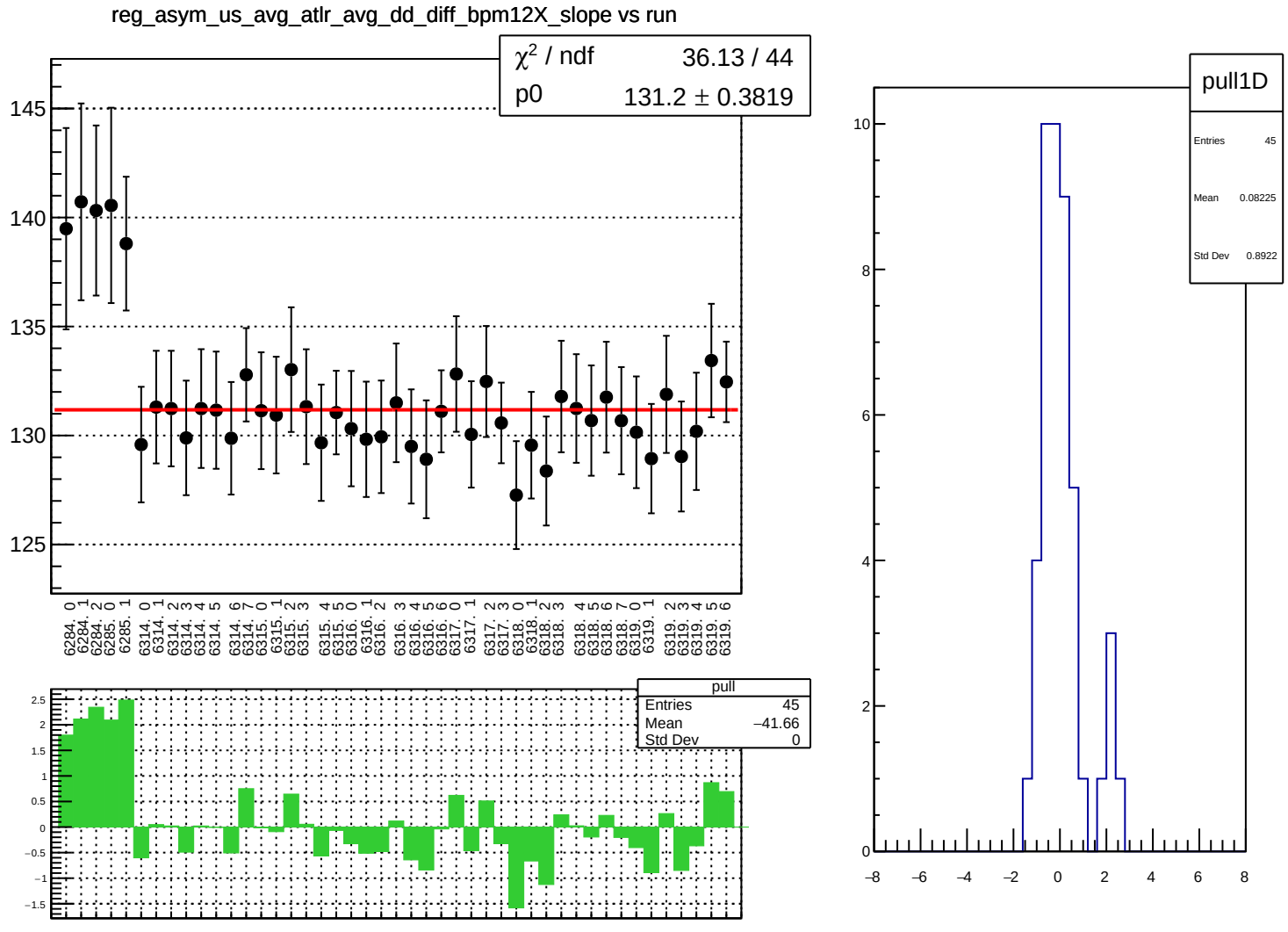

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.225 / 44
p0 13.14 ± 3.742
pull
Entries 45
Mean 12.54
Std Dev 27.49
pull1D
Entries 45
Mean −0.02327
Std Dev 0.34

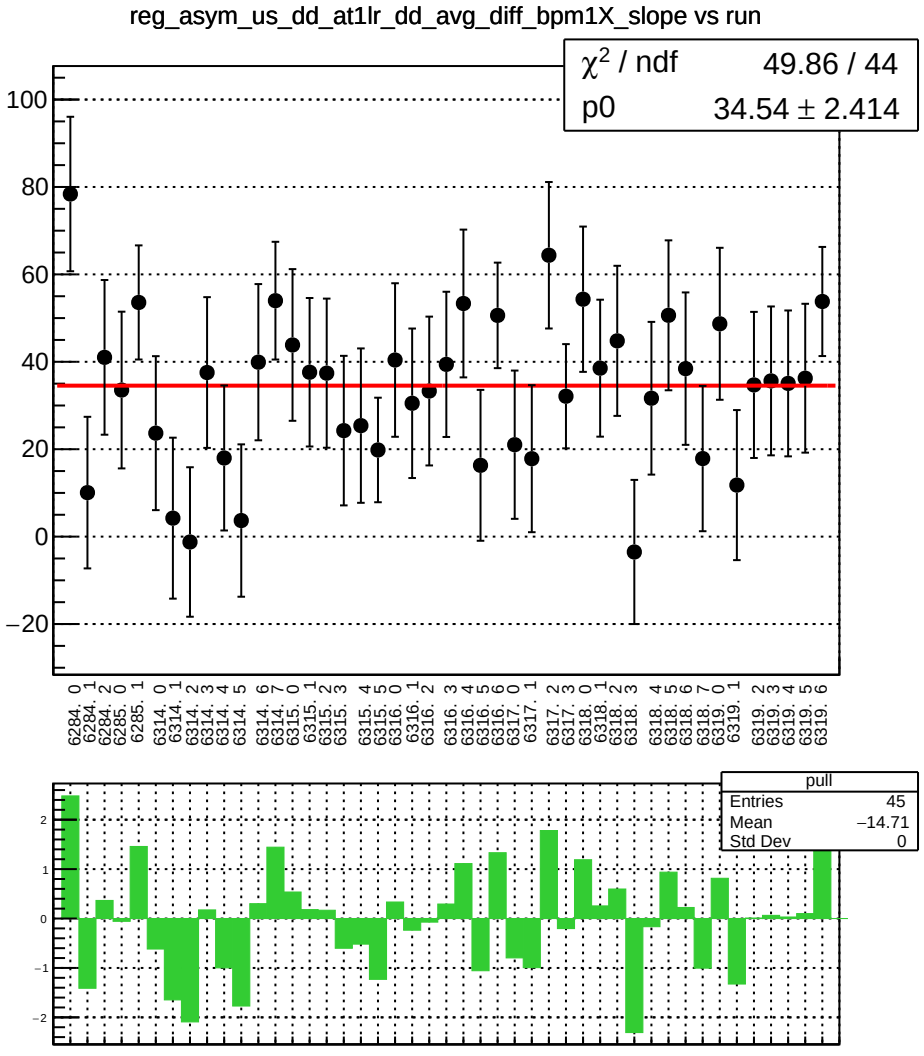

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.35 / 44
p0 −309.3 ± 5.277
pull
Entries 45
Mean −59.76
Std Dev 0

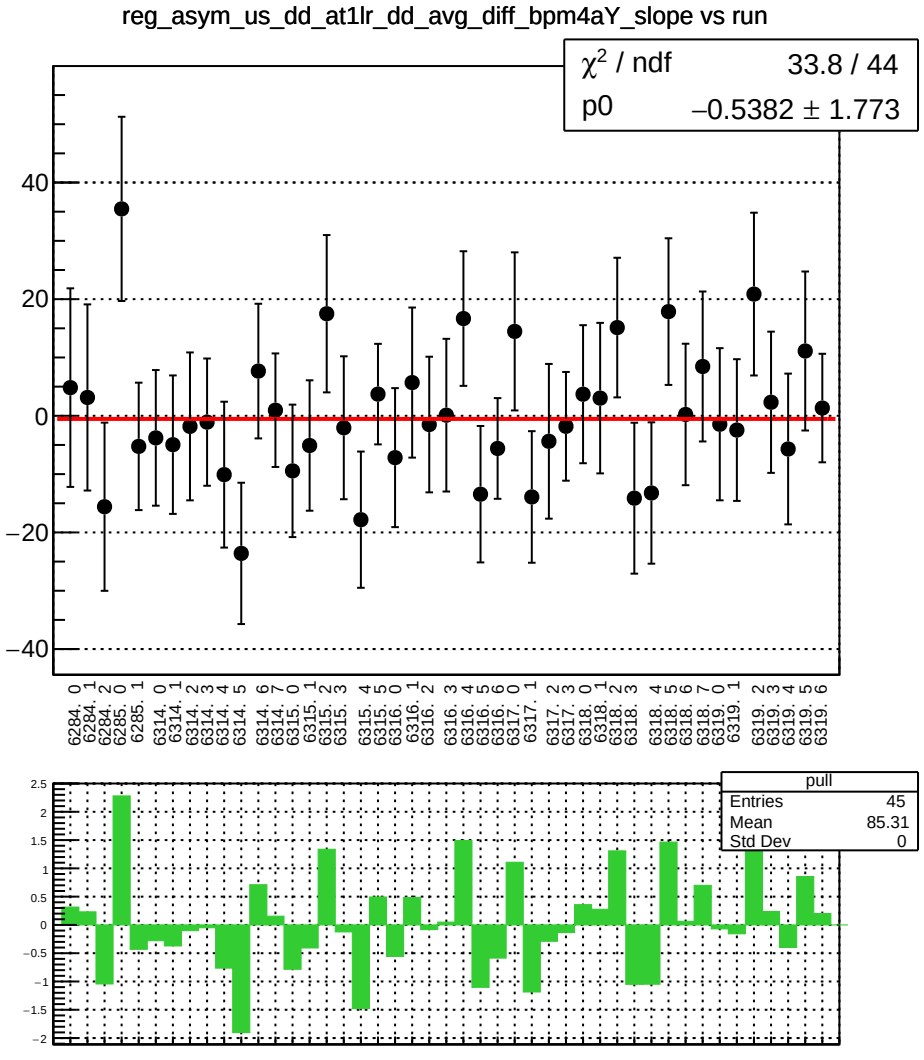

pull1D
Entries 45
Mean −0.03694
Std Dev 0.5434

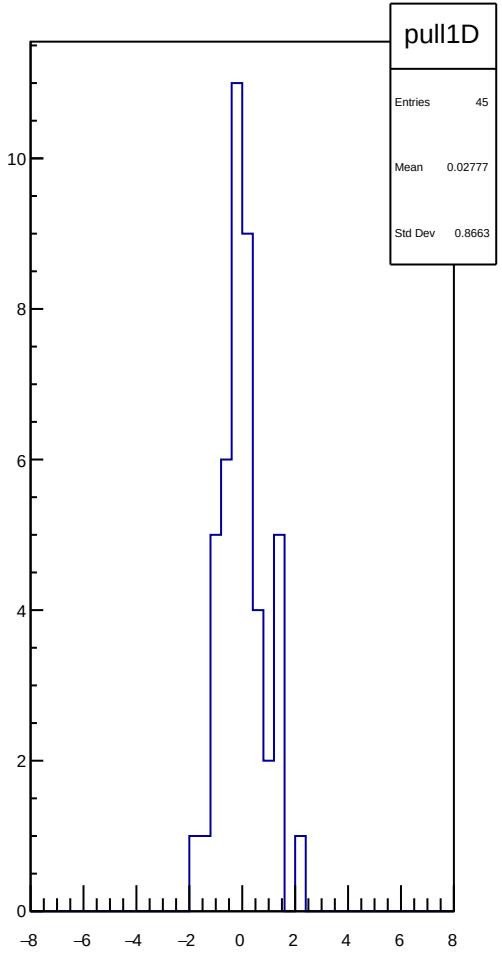

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.683 / 44
p0 −84.04 ± 4.614
pull
Entries 45
Mean −9.714
Std Dev 0

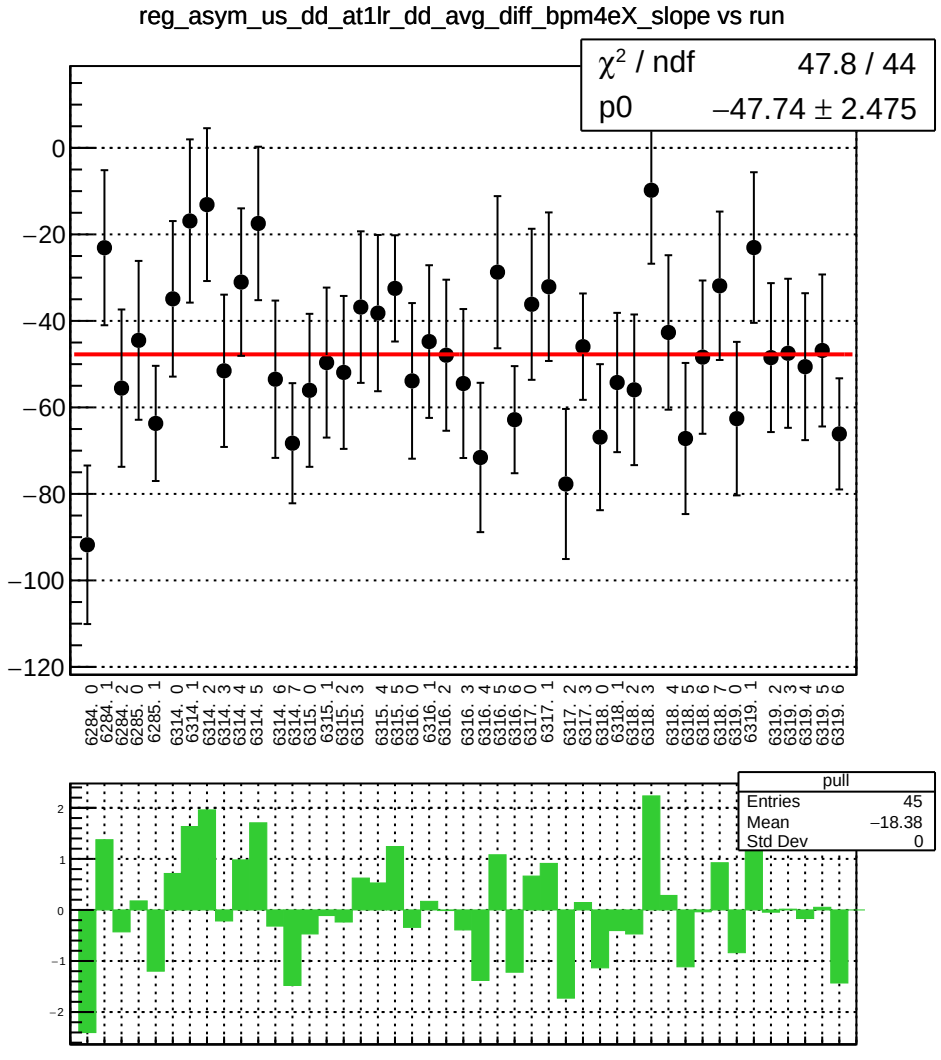

pull1D
Entries 45
Mean 0.03278
Std Dev 0.384

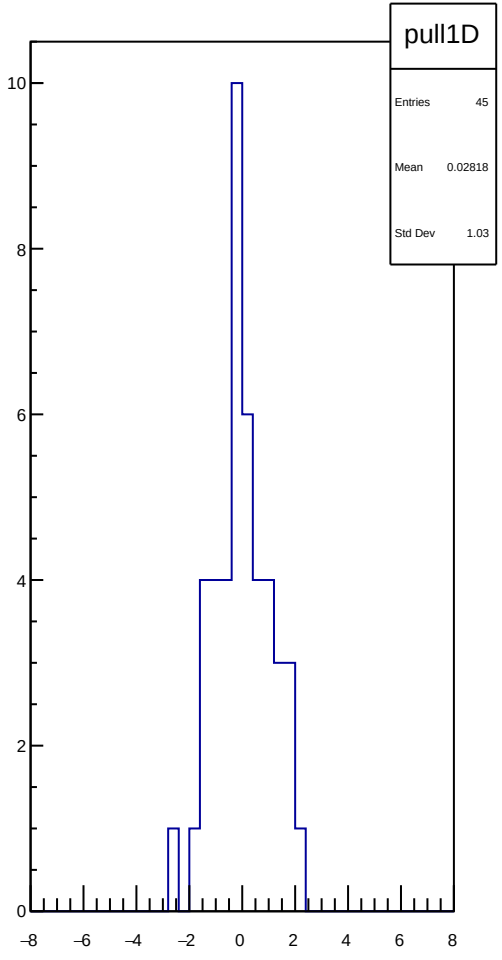

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 36.13 / 44
p0 131.2 ± 0.3819
145
140
135
130
125
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −41.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.08225
Std Dev 0.8922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

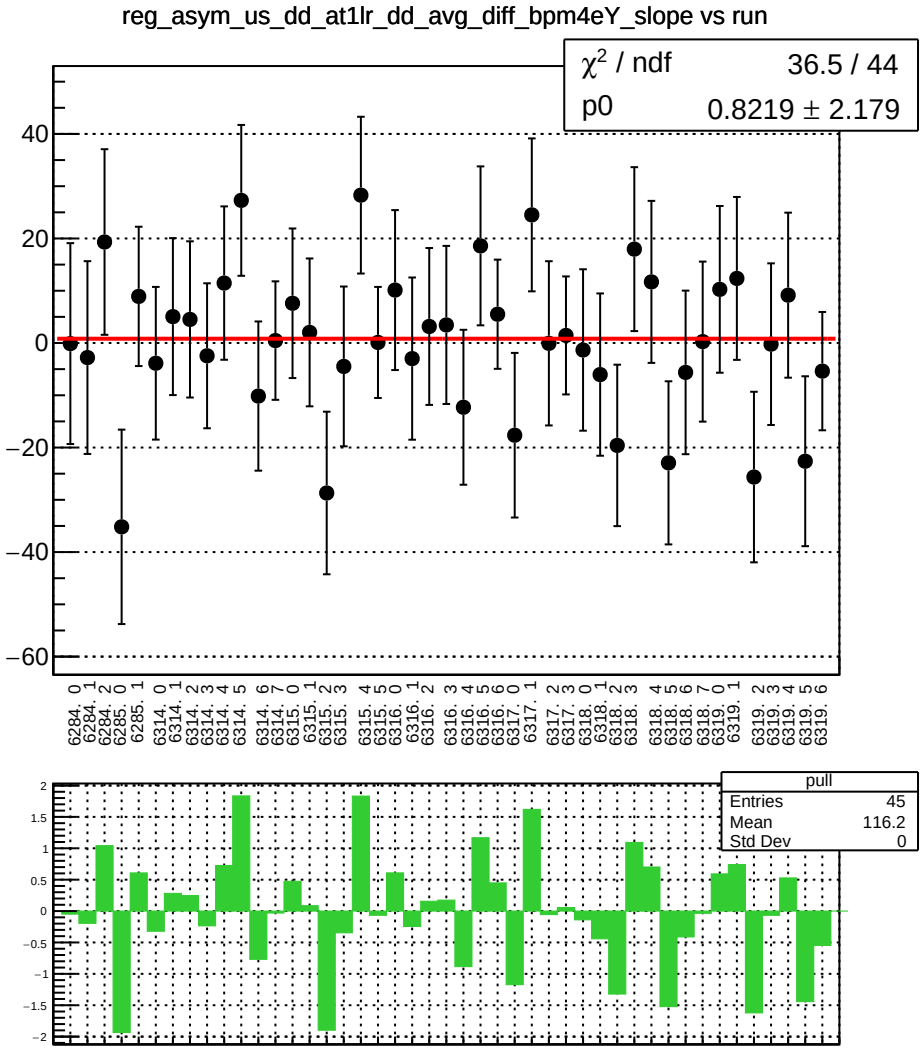

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 49.86 / 44
p0 34.54 ± 2.414
pull
Entries 45
Mean −14.71
Std Dev 0
pull1D
Entries 45
Mean −0.03066
Std Dev 1.052

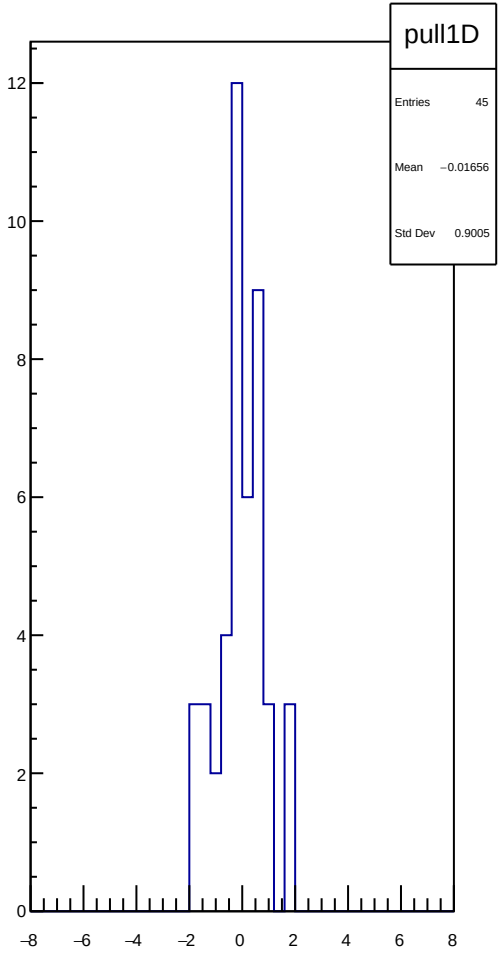

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.8 / 44
p0 −0.5382 ± 1.773
40
20
0
−20
−40
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 85.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

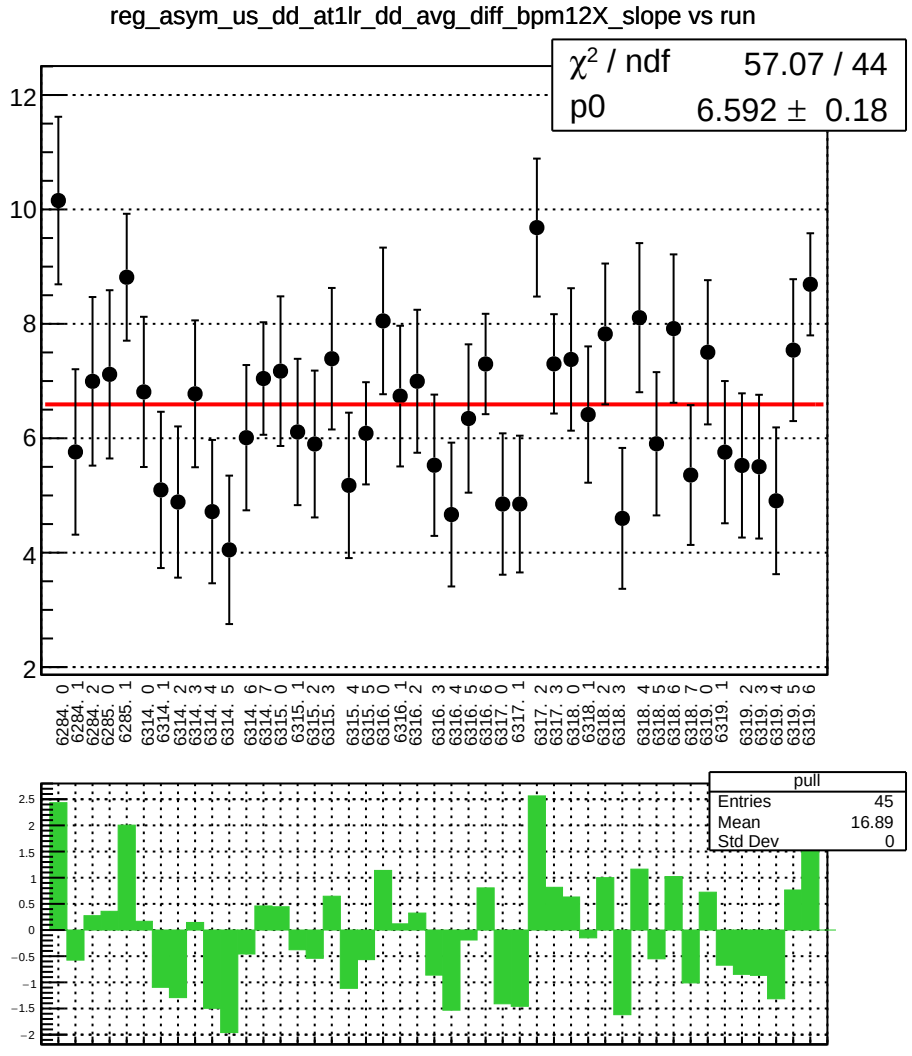

pull1D
Entries 45
Mean 0.02777
Std Dev 0.8663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

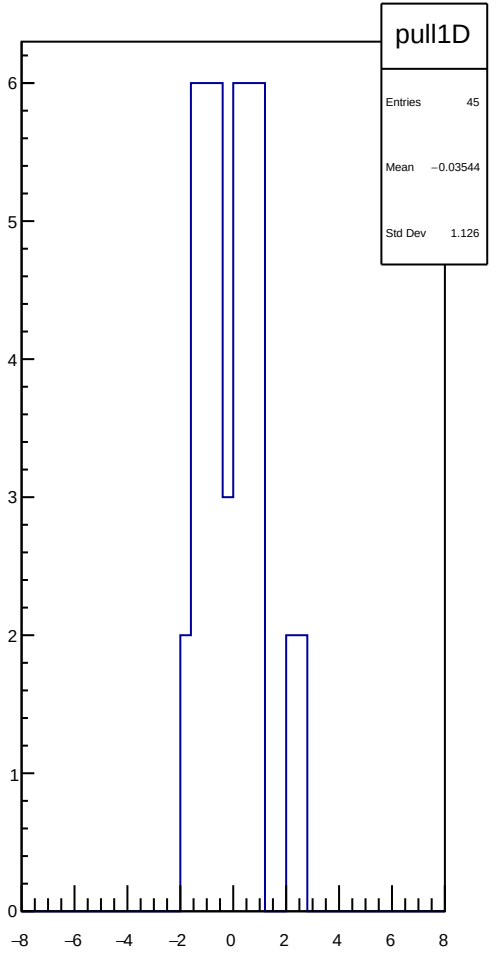

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.8 / 44
p0 −47.74 ± 2.475
0
−20
−40
−60
−80
−100
−120
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −18.38
Std Dev 0
2
1
0
−1
−2

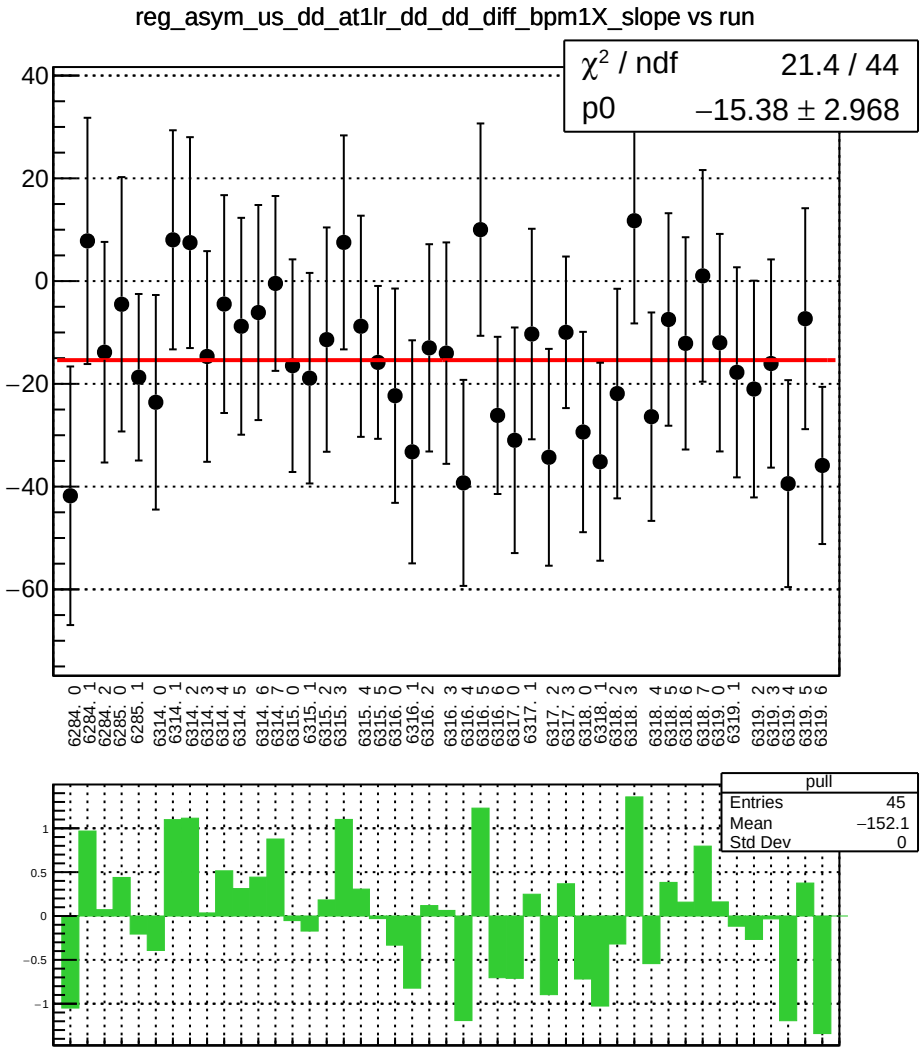

pull1D
Entries 45
Mean 0.02818
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

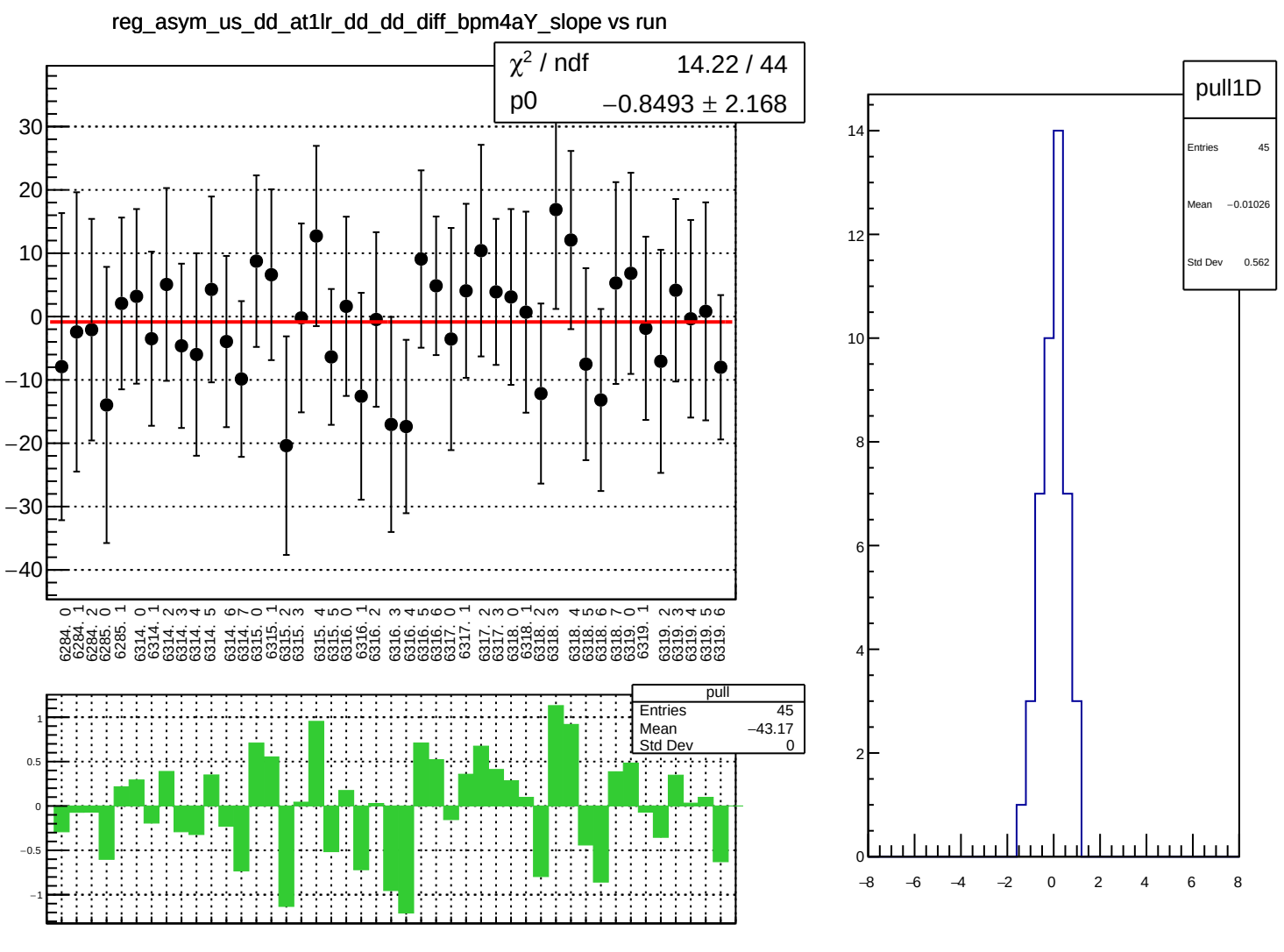

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.5 / 44
p0 0.8219 ± 2.179
pull
Entries 45
Mean 116.2
Std Dev 0

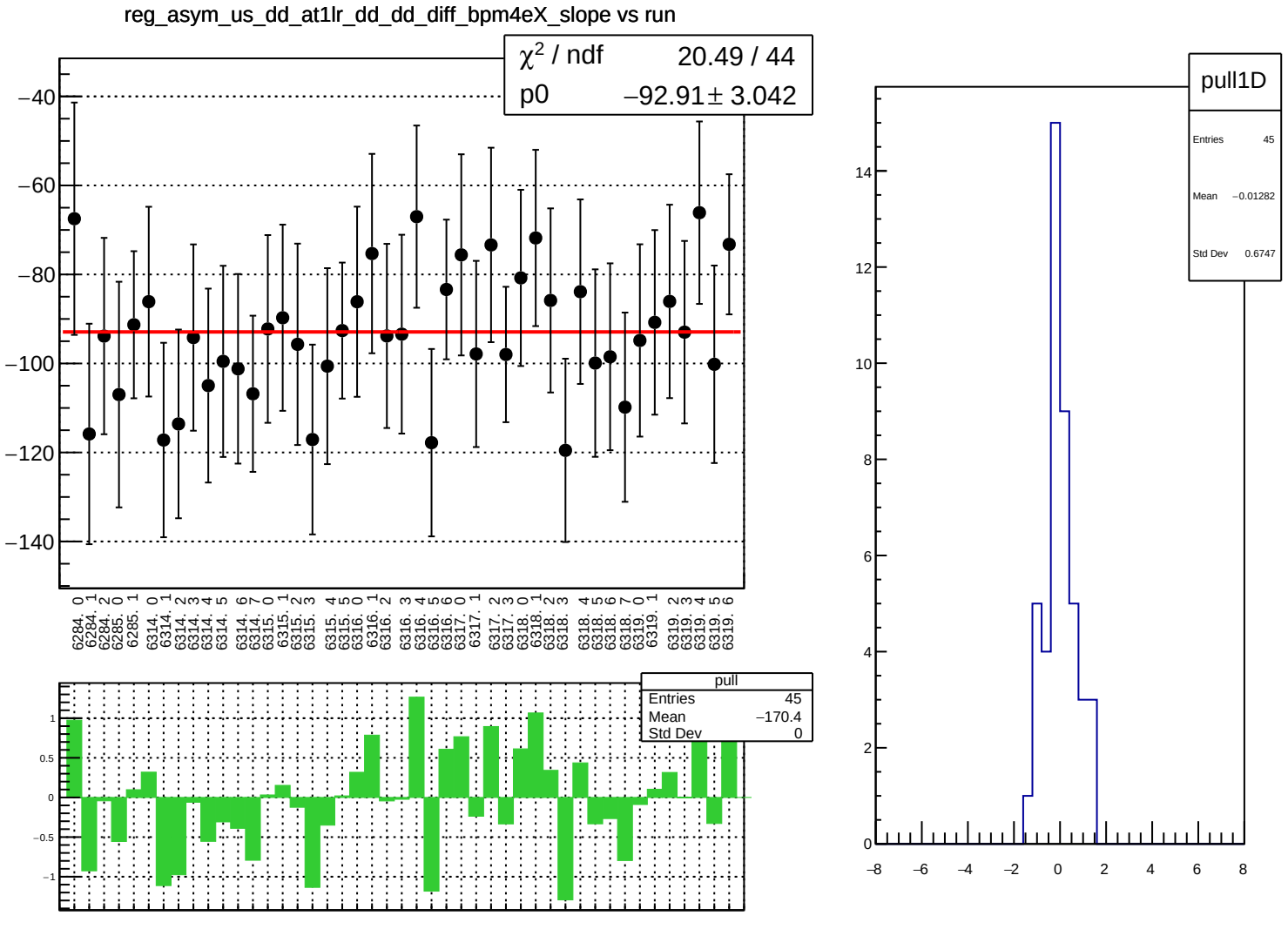

pull1D
Entries 45
Mean −0.01656
Std Dev 0.9005

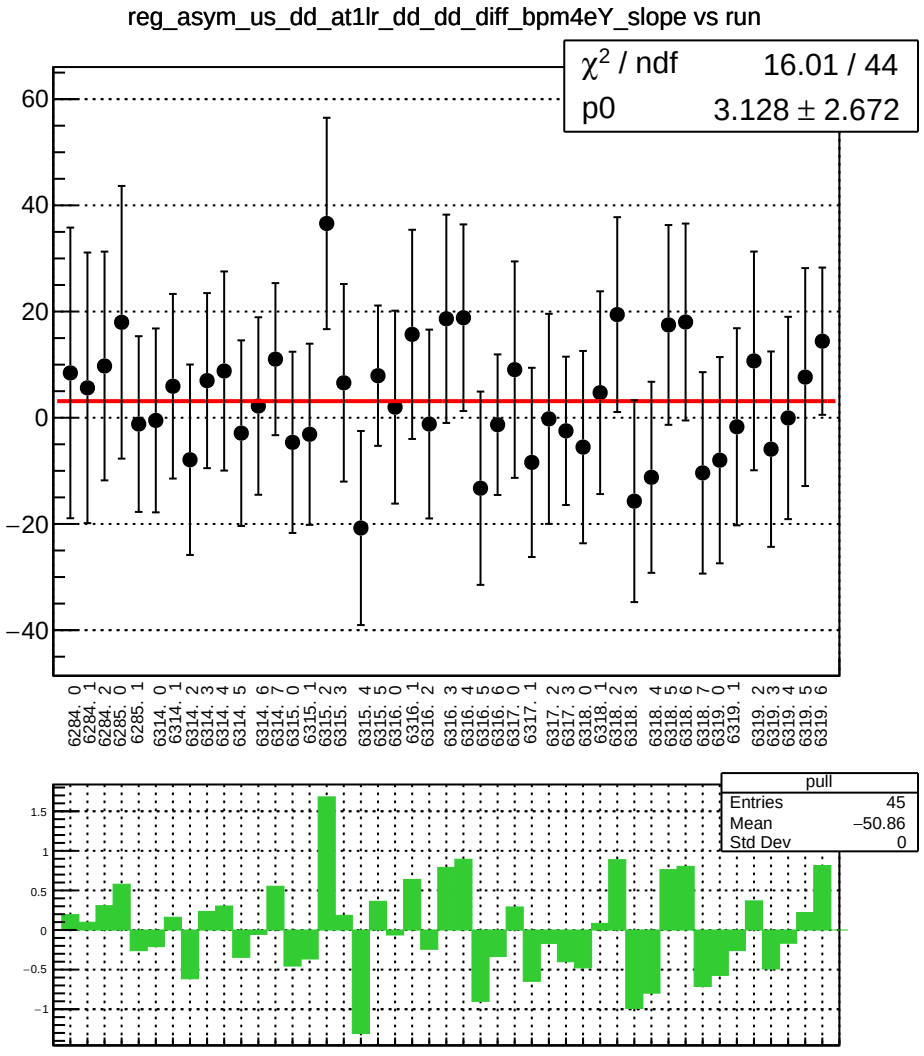

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 57.07 / 44
p0 6.592 ± 0.18
pull
Entries 45
Mean 16.89
Std Dev 0

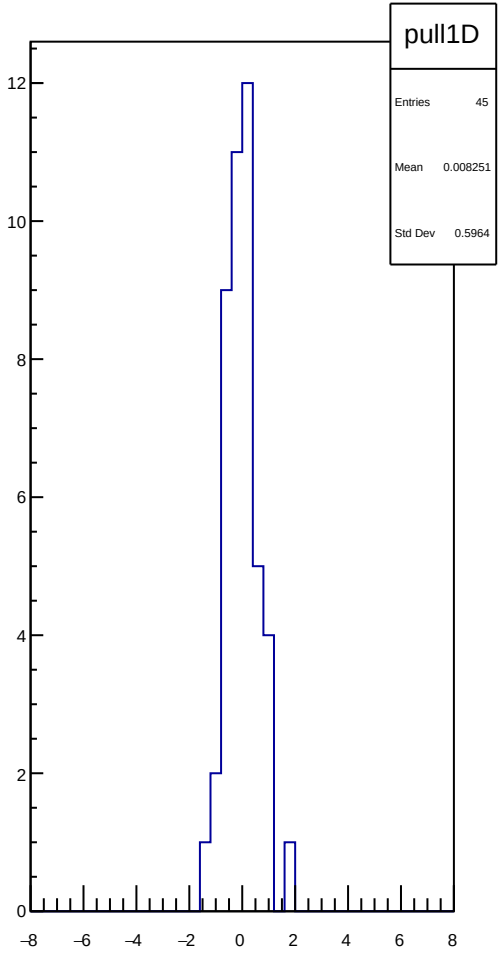

pull1D
Entries 45
Mean −0.03544
Std Dev 1.126

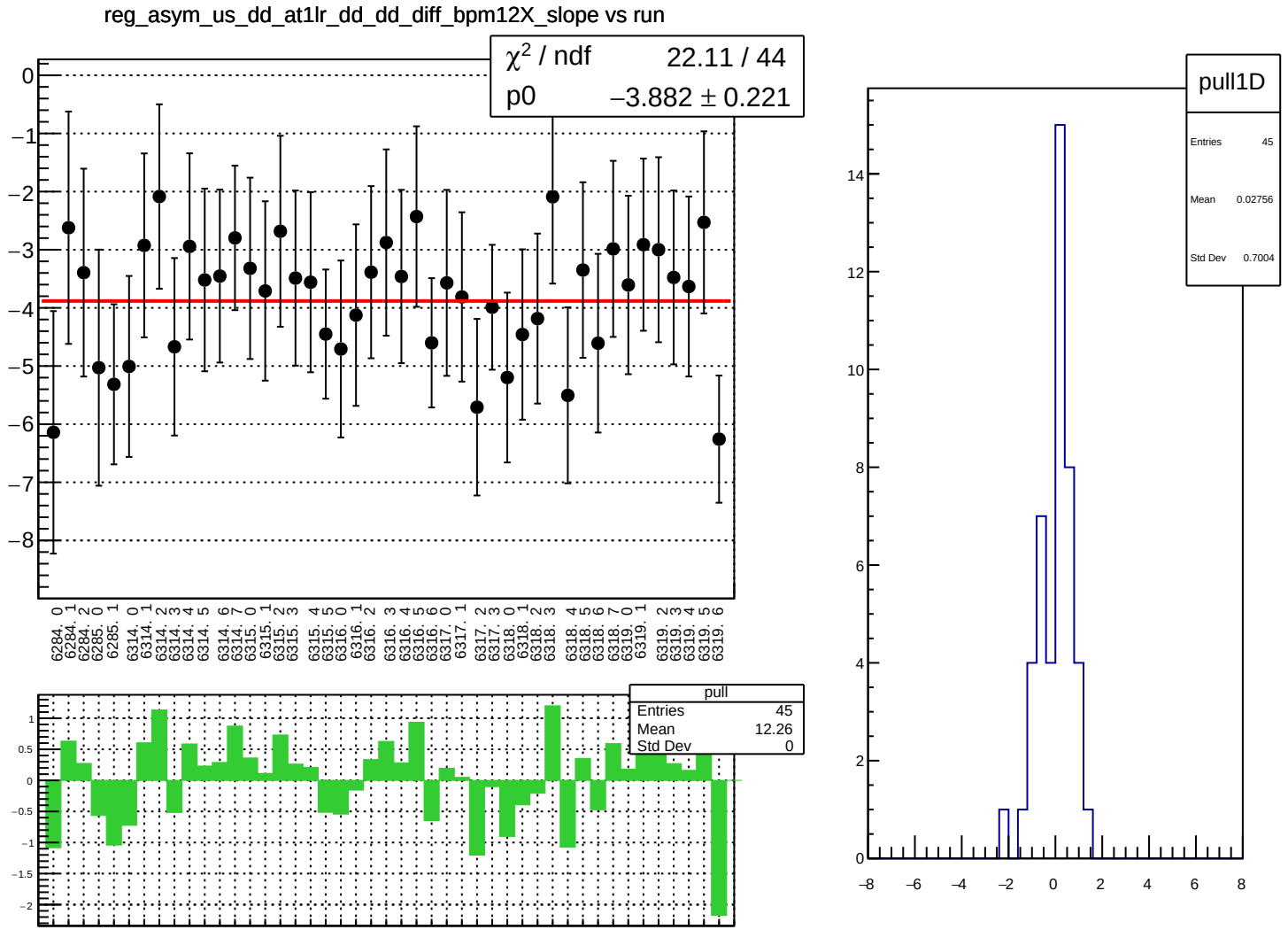

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.4 / 44
p0 −15.38 ± 2.968
pull
Entries 45
Mean −152.1
Std Dev 0
pull1D
Entries 45
Mean 0.01357
Std Dev 0.6895

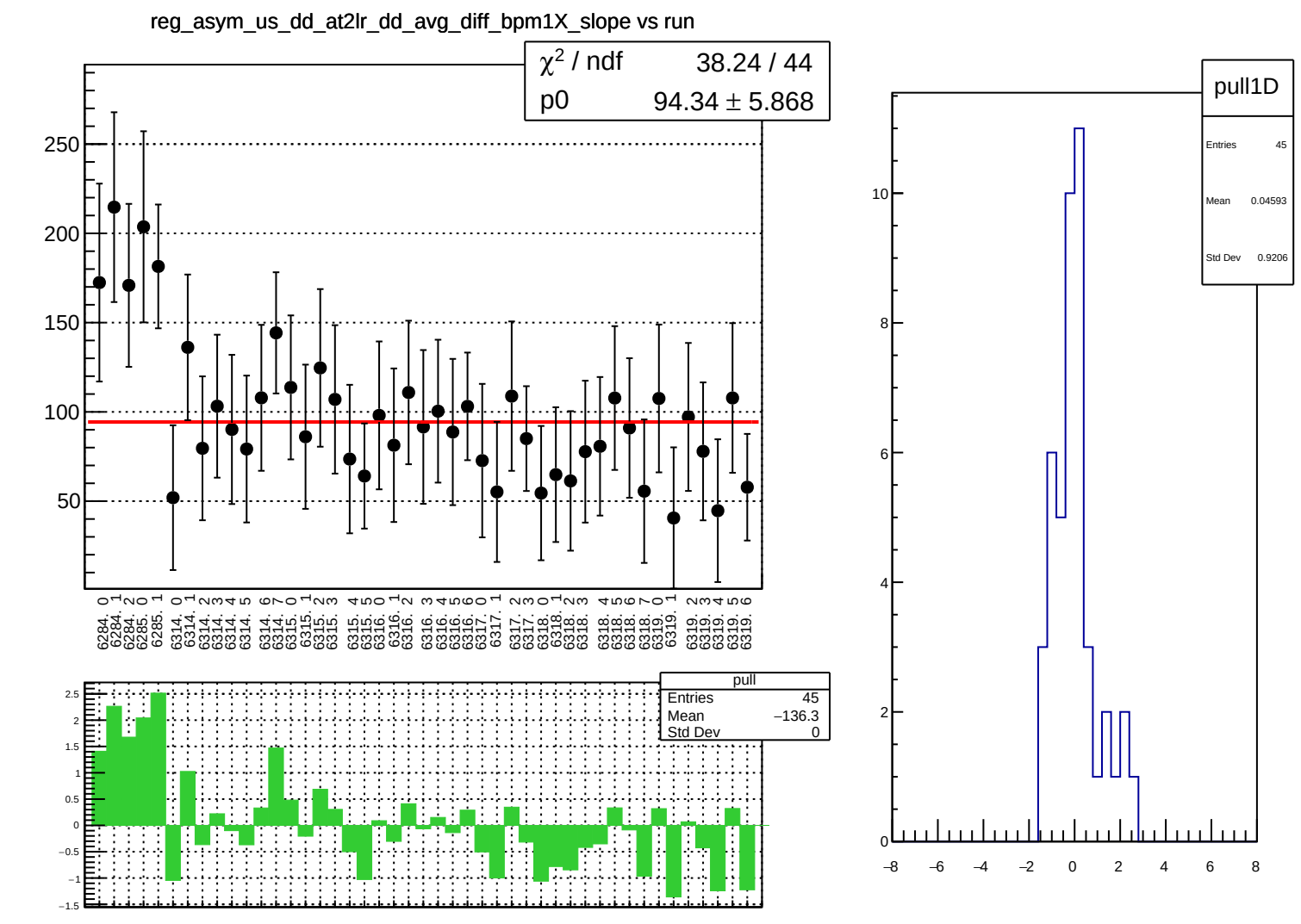

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.22 / 44
p0 −0.8493 ± 2.168
pull
Entries 45
Mean −43.17
Std Dev 0
pull1D
Entries 45
Mean −0.01026
Std Dev 0.562

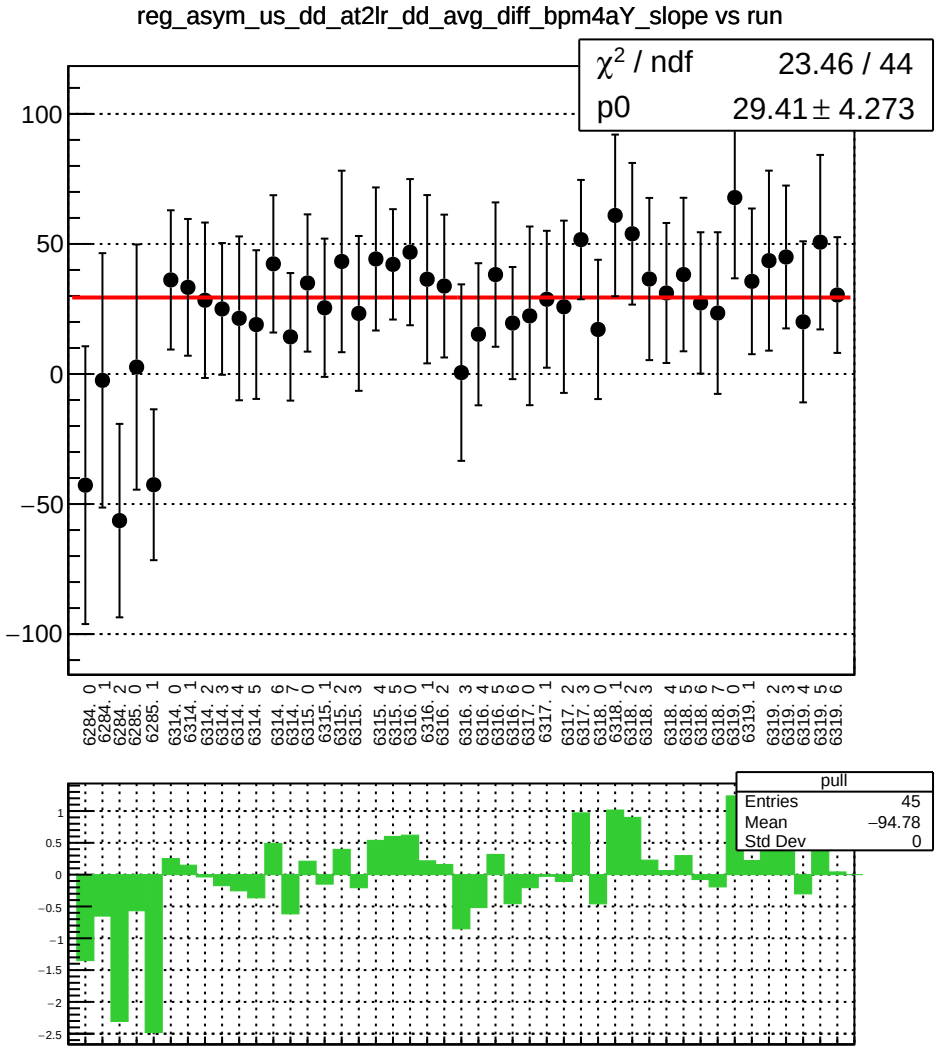

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.49 / 44
p0 −92.91± 3.042
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −170.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01282
Std Dev 0.6747
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

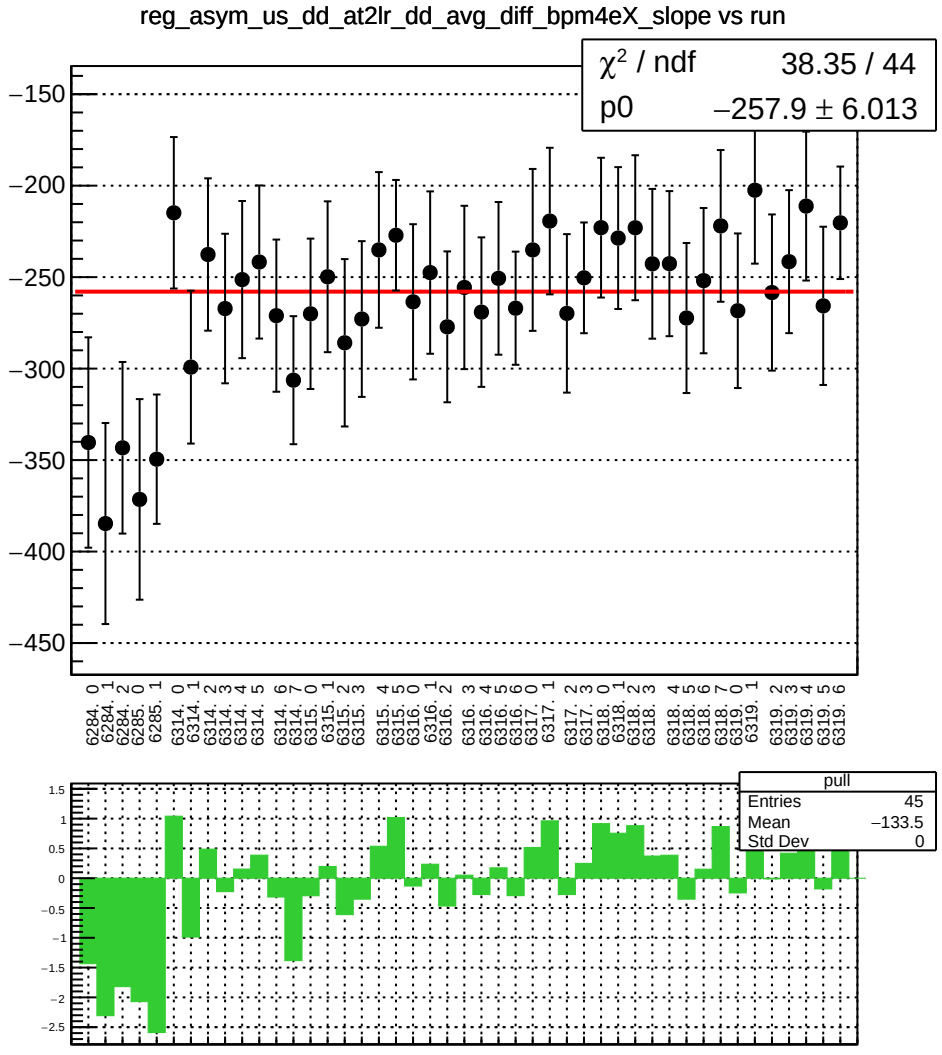

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.01 / 44
p0 3.128 ± 2.672
pull
Entries 45
Mean −50.86
Std Dev 0

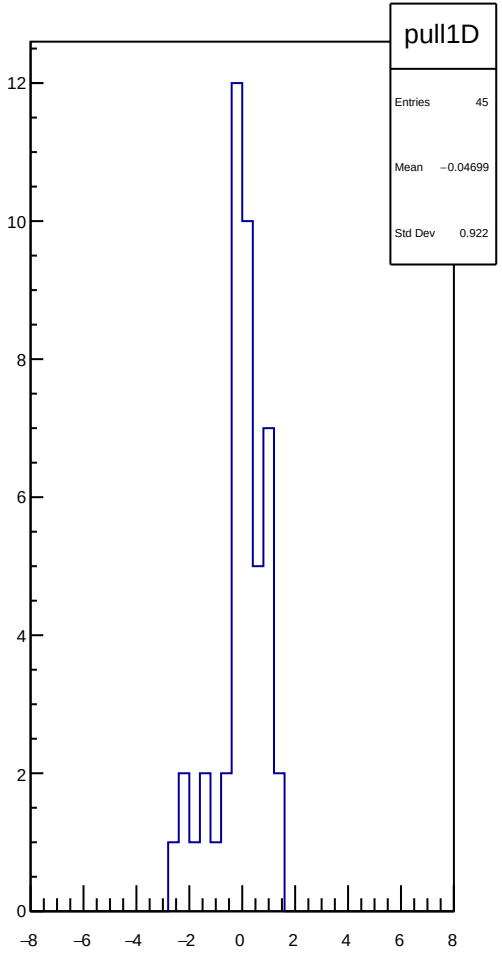

pull1D
Entries 45
Mean 0.008251
Std Dev 0.5964

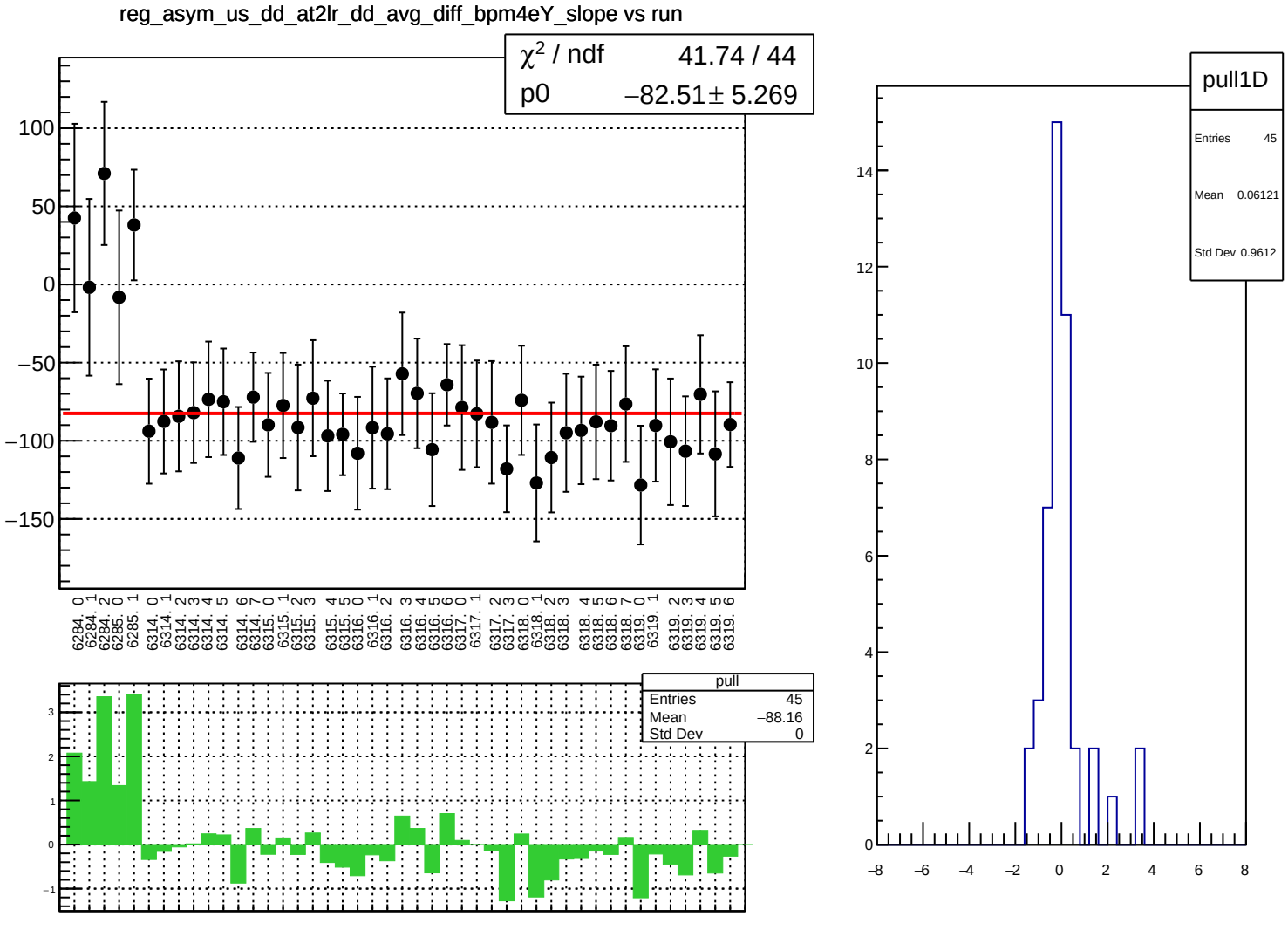

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 22.11 / 44
p0 −3.882 ± 0.221
pull
Entries 45
Mean 12.26
Std Dev 0
pull1D
Entries 45
Mean 0.02756
Std Dev 0.7004

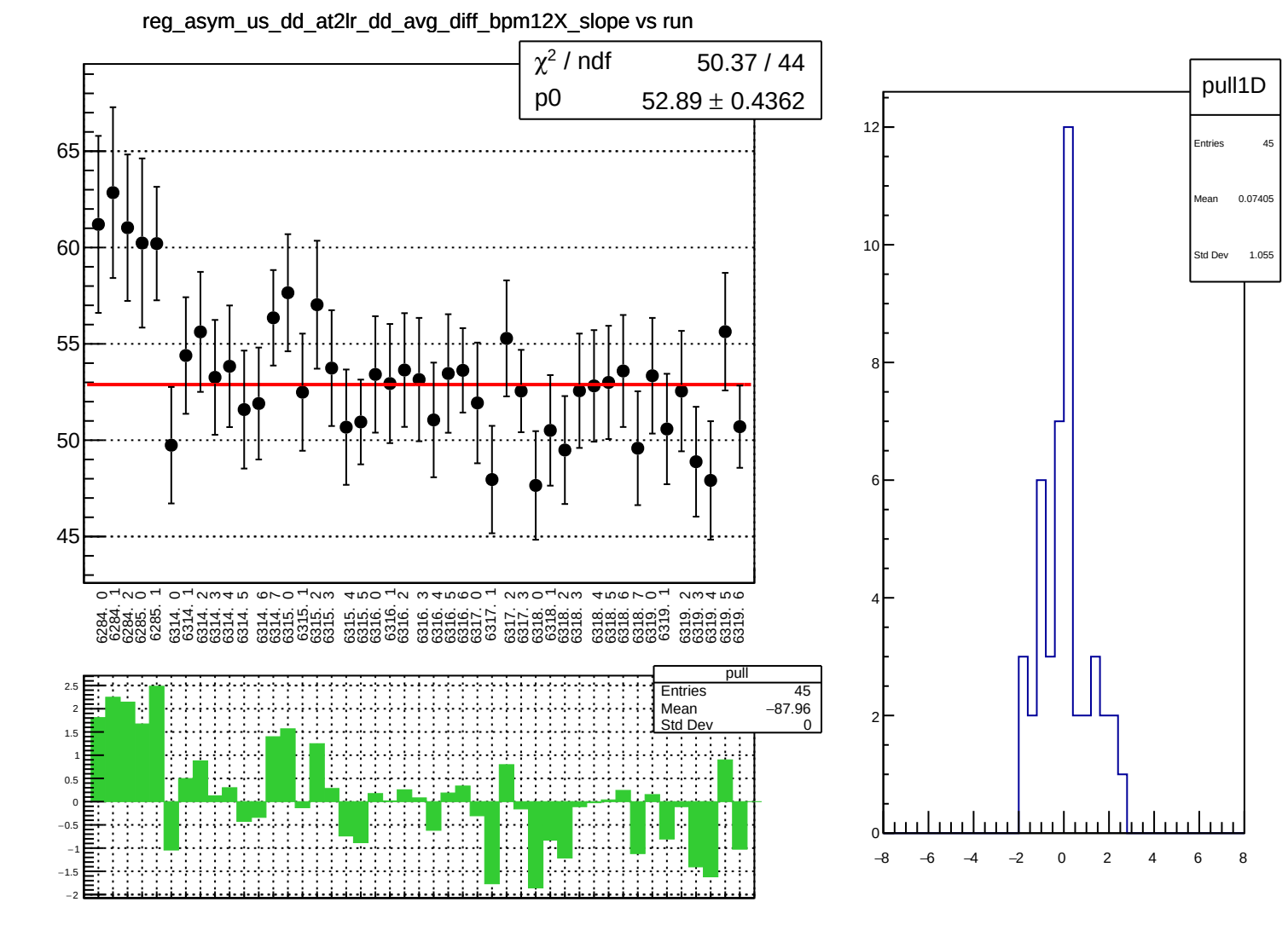

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 38.24 / 44
p0 94.34 ± 5.868
250
200
150
100
50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6314. 0
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −136.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04593
Std Dev 0.9206
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

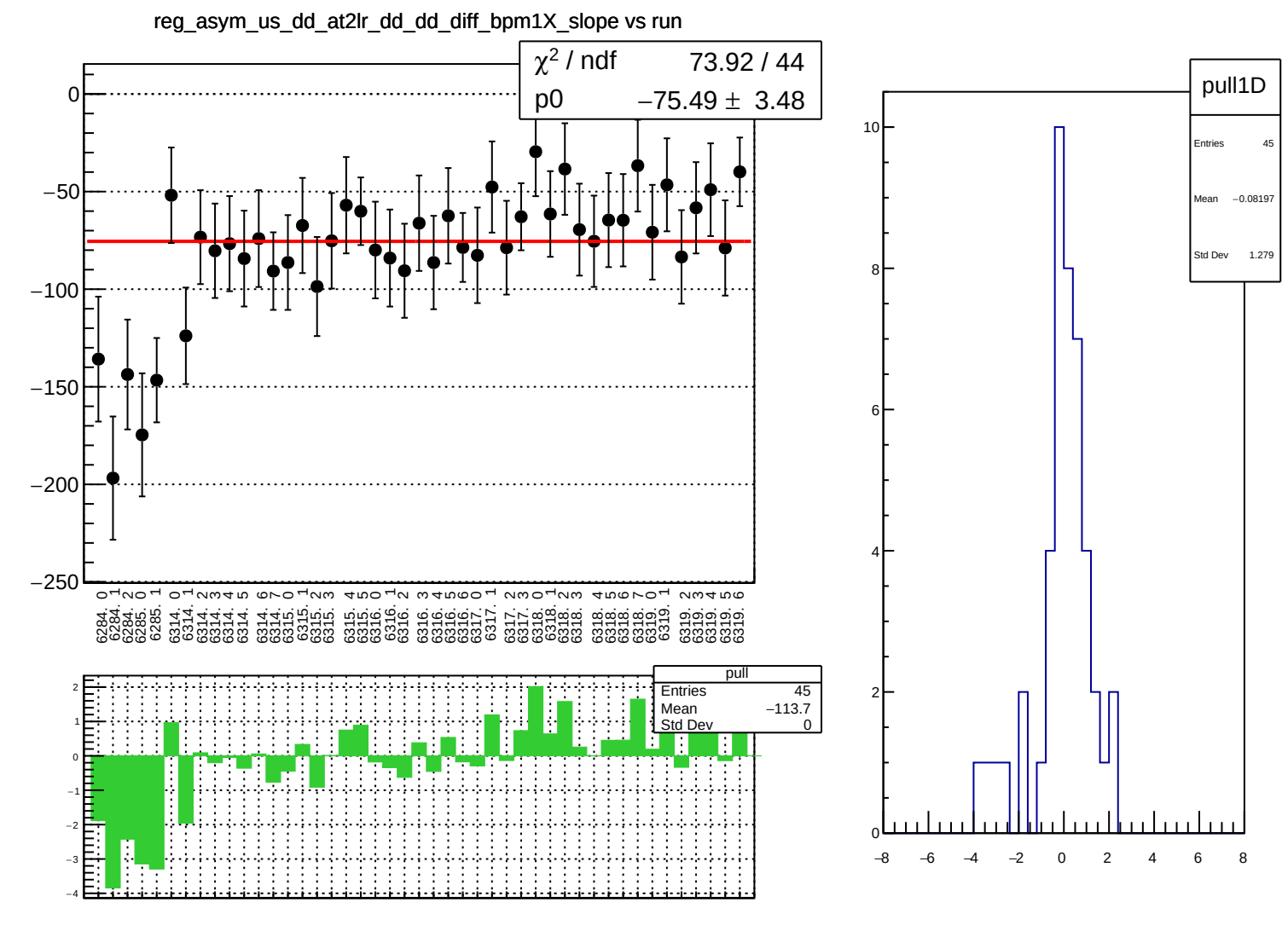

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.46 / 44
p0 29.41 ± 4.273
pull
Entries 45
Mean −94.78
Std Dev 0
pull1D
Entries 45
Mean −0.04007
Std Dev 0.721

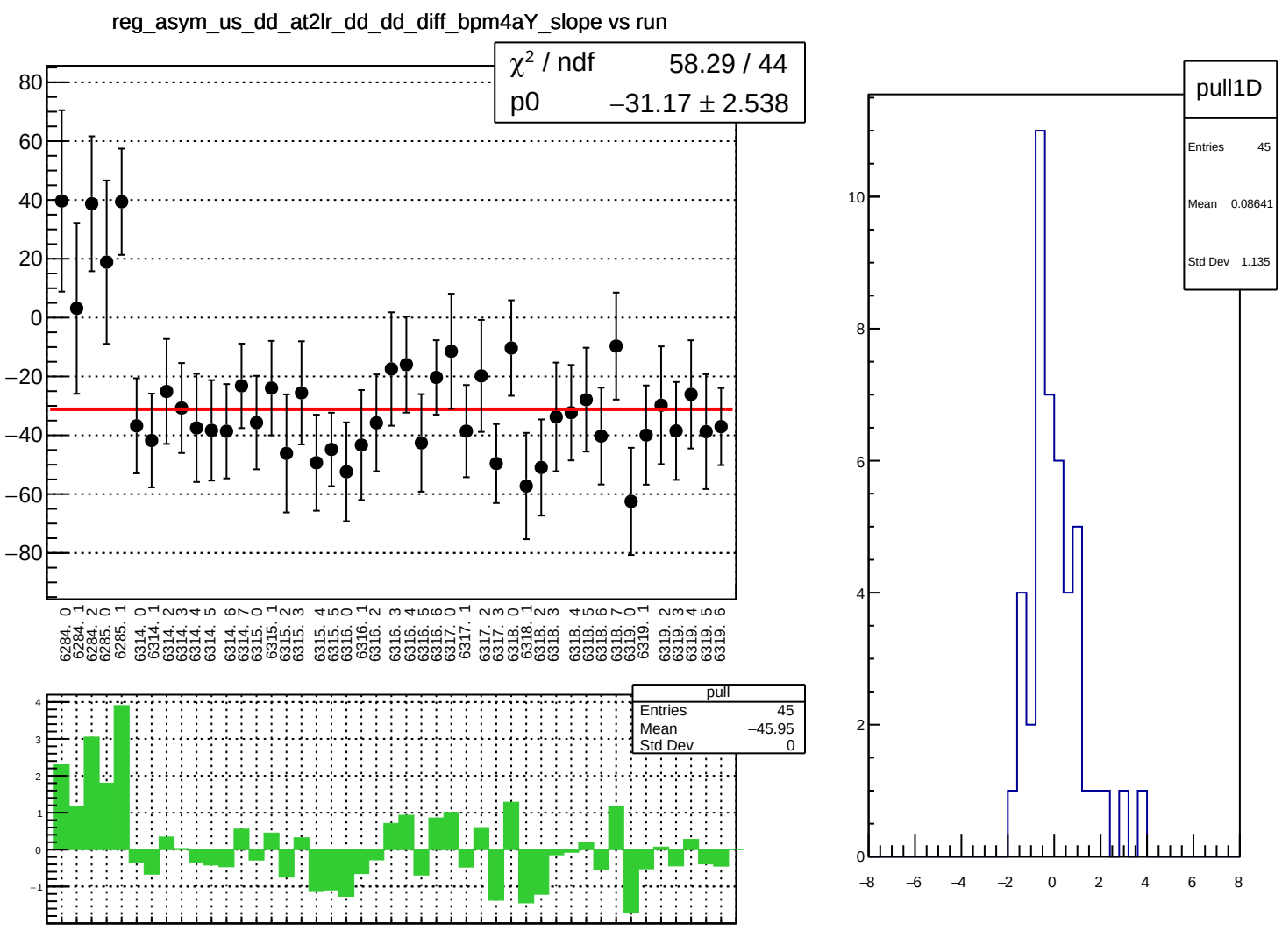

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.35 / 44
p0 −257.9 ± 6.013
−150
−200
−250
−300
−350
−400
−450
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

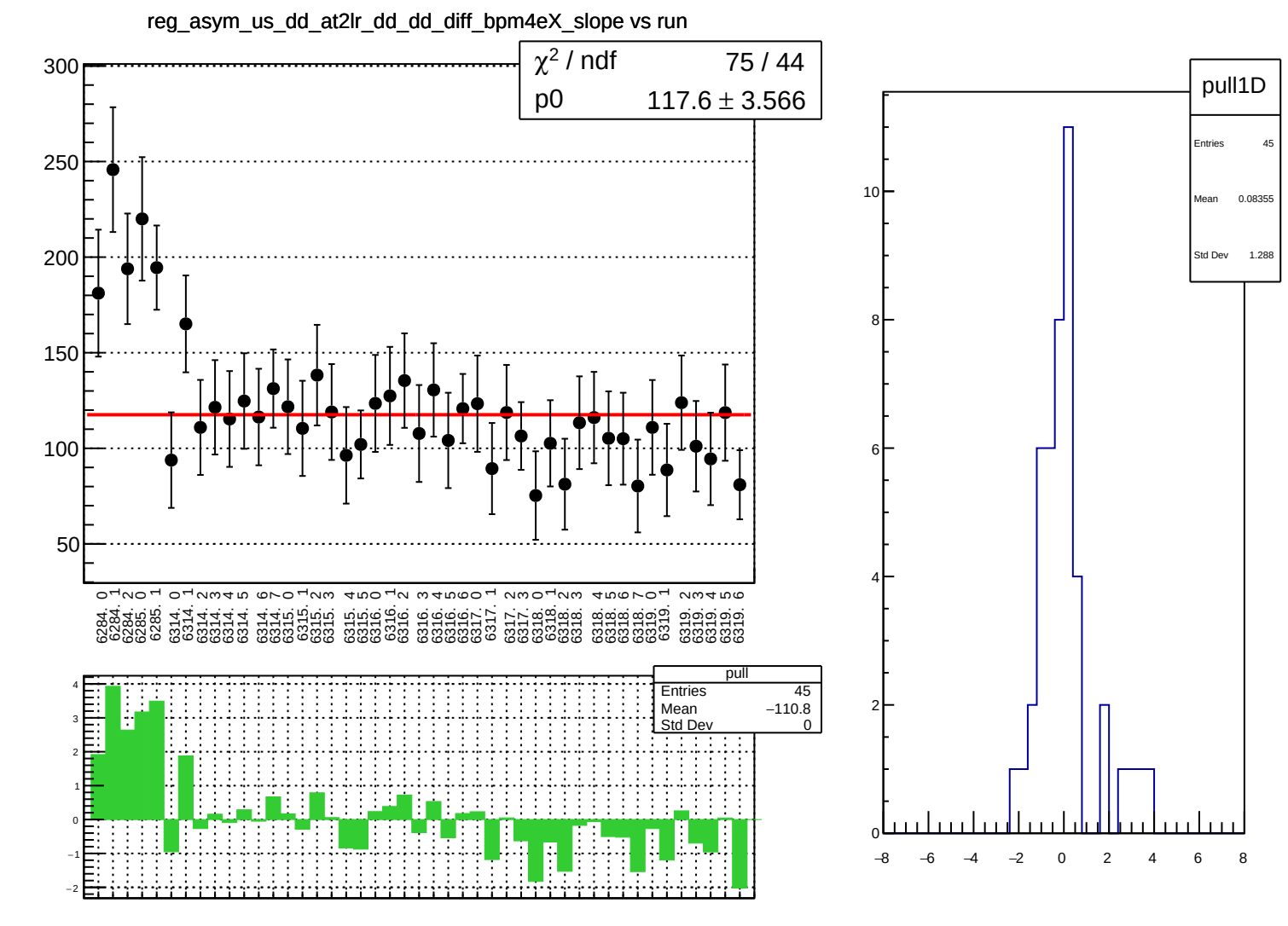

pull1D
Entries 45
Mean −0.04699
Std Dev 0.922
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

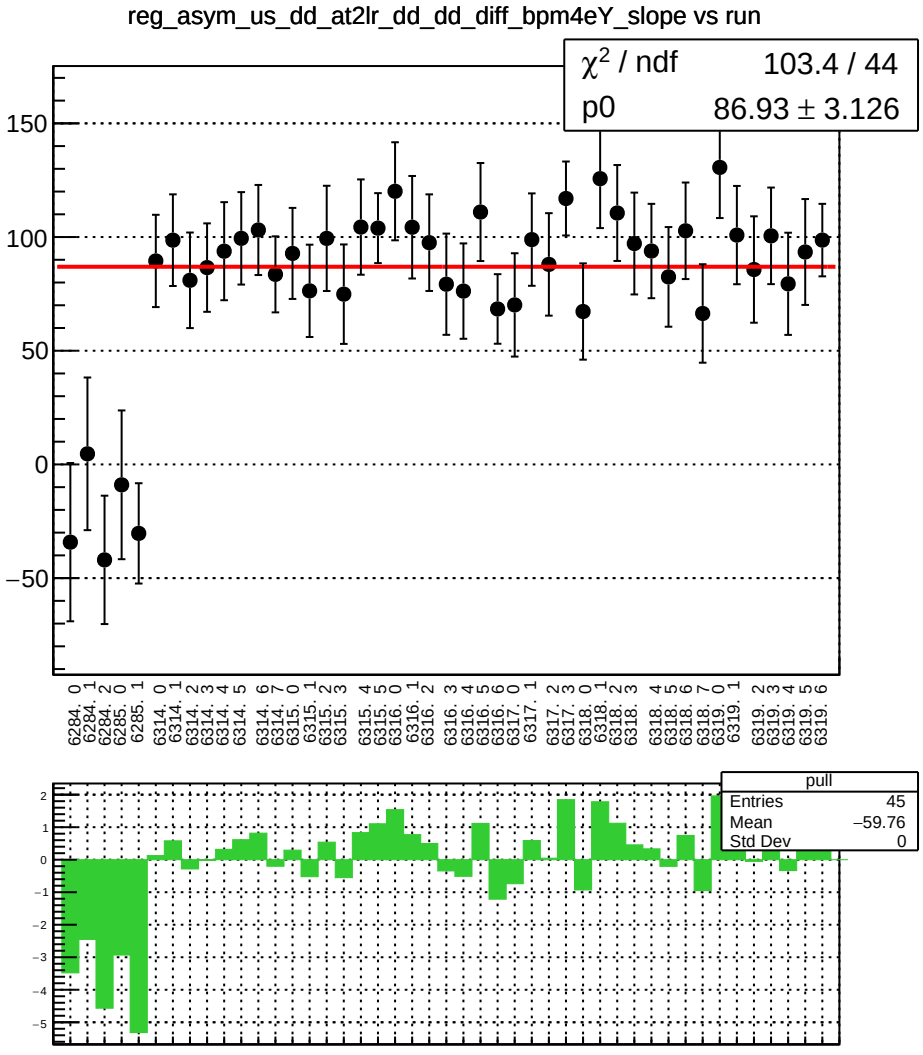

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.74 / 44
p0 −82.51 ± 5.269
100
50
0
−50
−100
−150
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −88.16
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean 0.06121
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

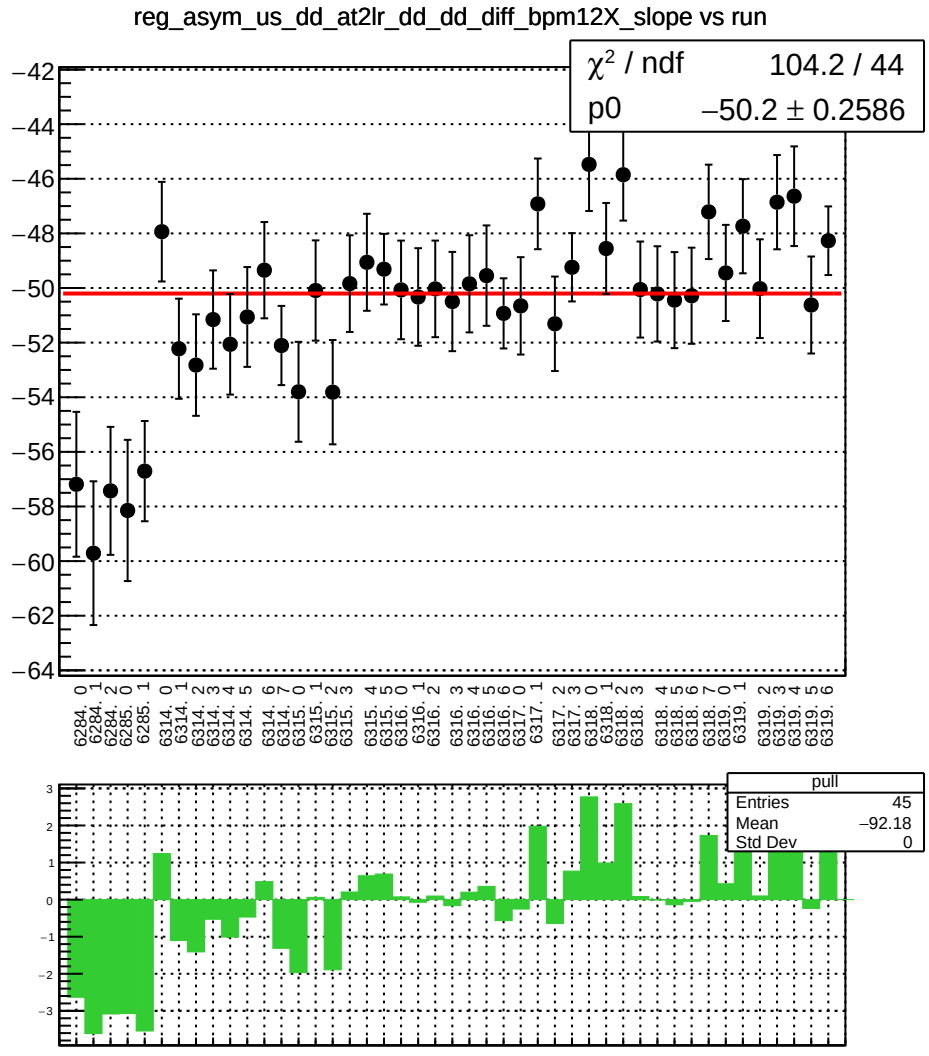

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 50.37 / 44
p0 52.89 ± 0.4362
65
60
55
50
45
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean –87.96
Std Dev 0
2.5
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
pull1D
Entries 45
Mean 0.07405
Std Dev 1.055
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

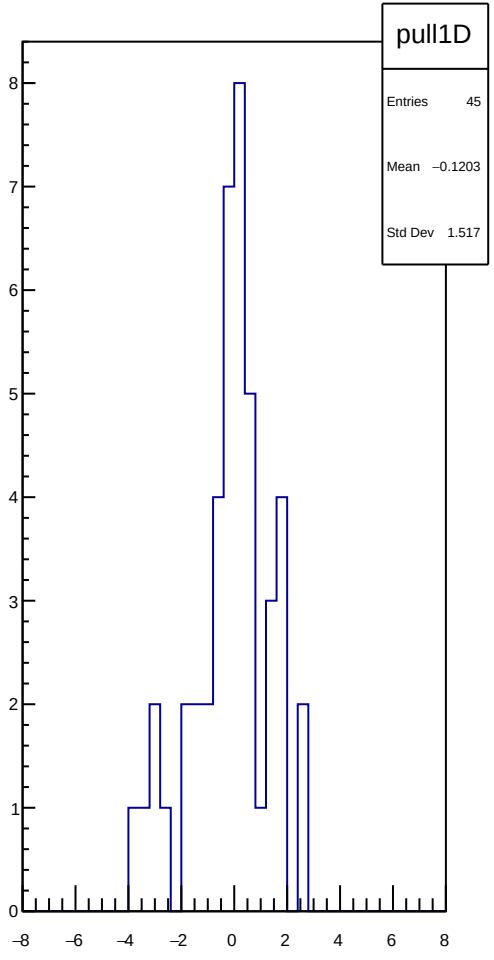

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.92 / 44
p0 −75.49 ± 3.48
pull
Entries 45
Mean −113.7
Std Dev 0
pull1D
Entries 45
Mean −0.08197
Std Dev 1.279

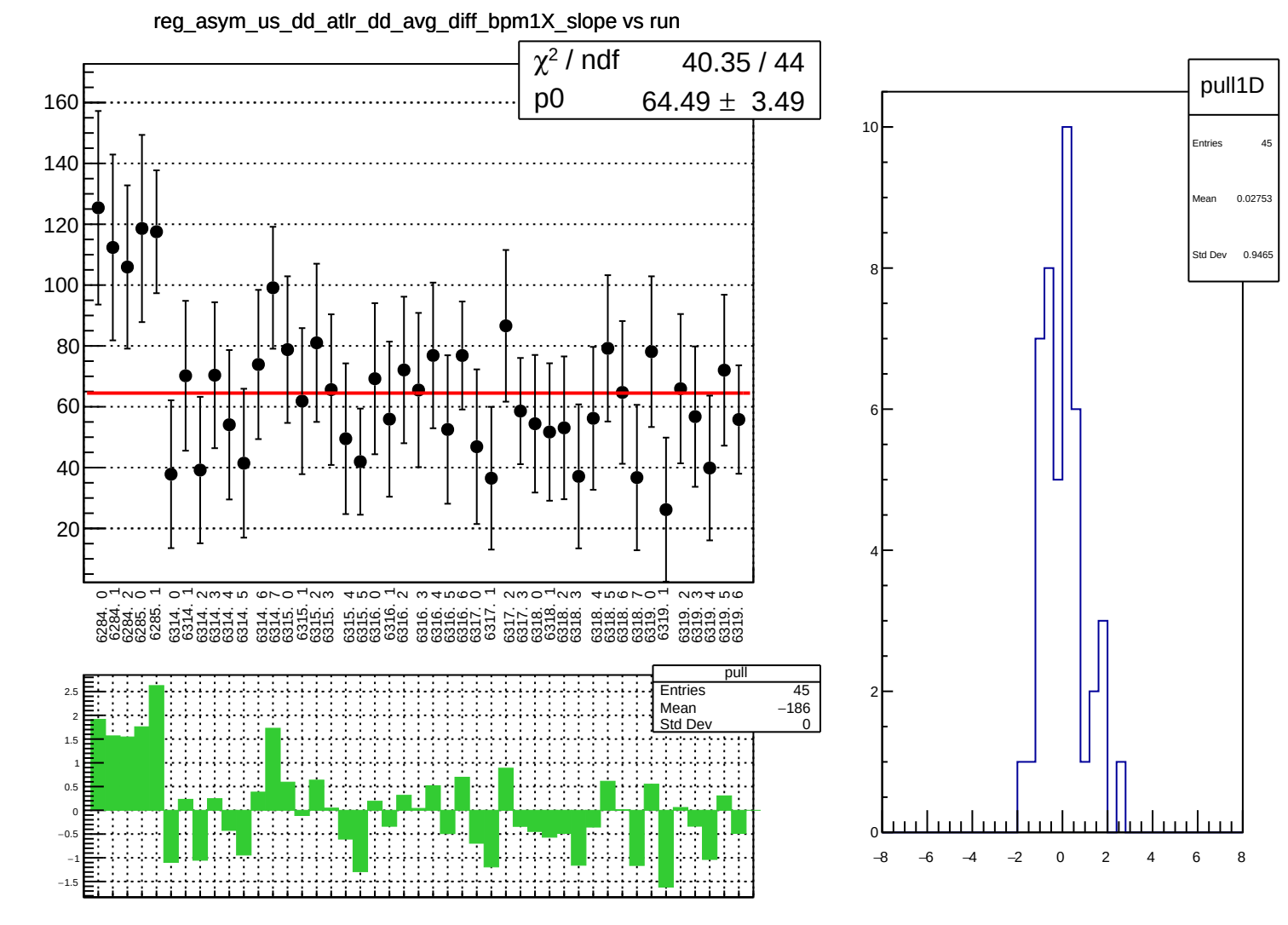

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.29 / 44
p0 −31.17 ± 2.538
pull
Entries 45
Mean −45.95
Std Dev 0
pull1D
Entries 45
Mean 0.08641
Std Dev 1.135

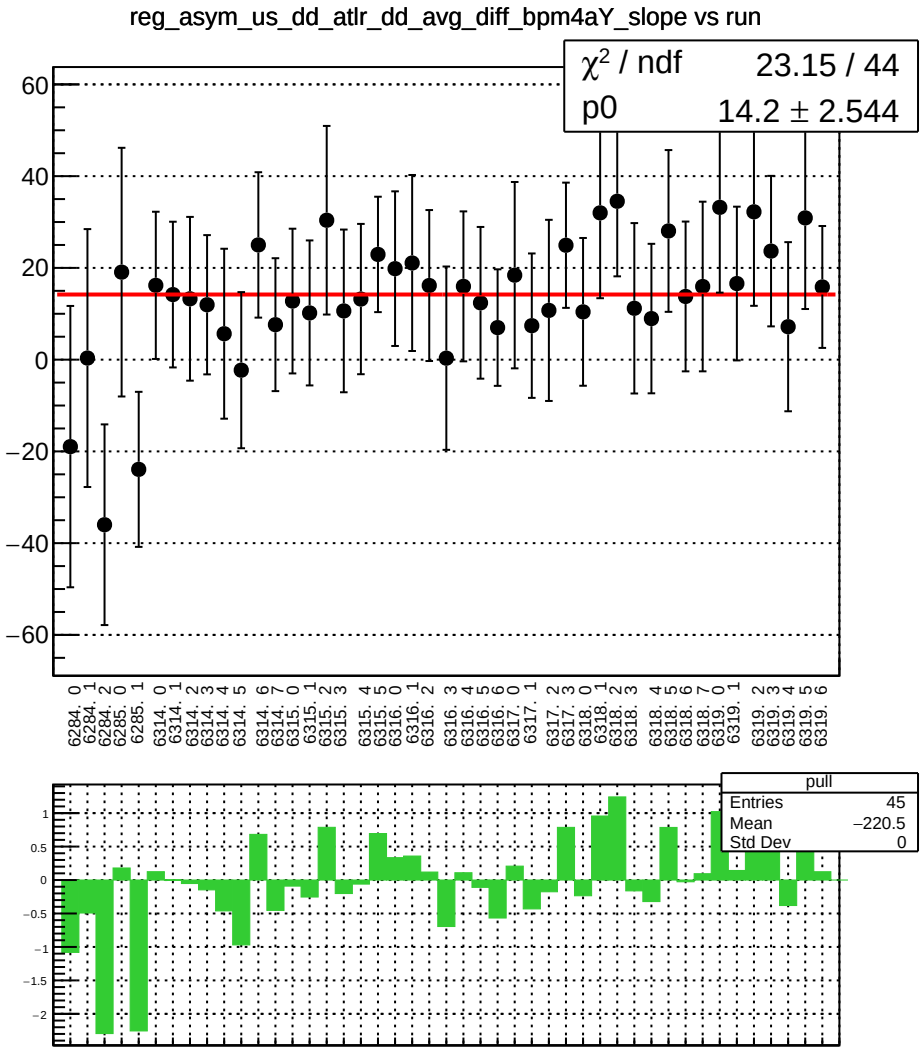

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 75 / 44
p0 117.6 ± 3.566
pull
Entries 45
Mean −110.8
Std Dev 0
pull1D
Entries 45
Mean 0.08355
Std Dev 1.288

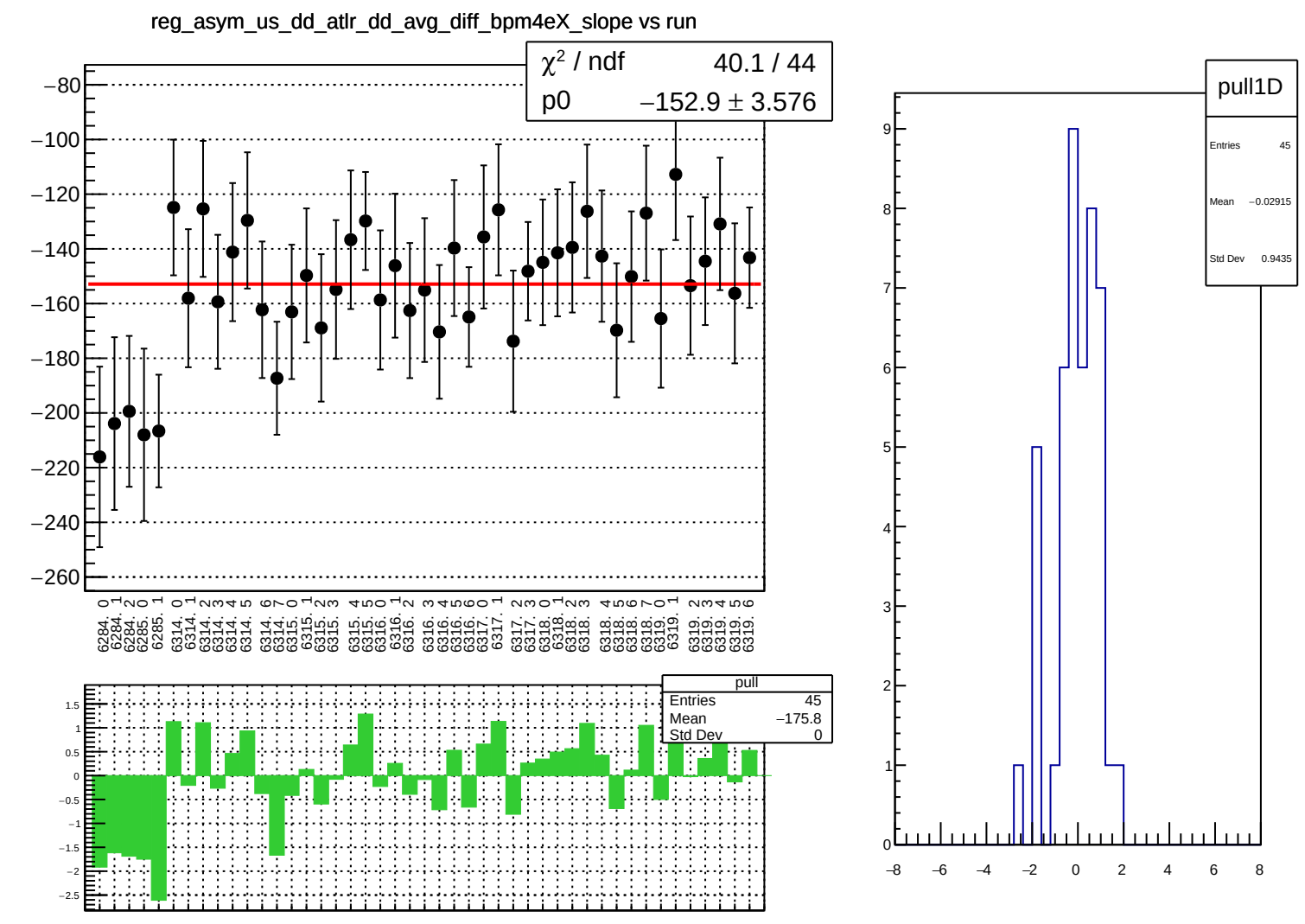

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.4 / 44
p0 86.93 ± 3.126
150
100
50
0
−50
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −59.76
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 45
Mean −0.1172
Std Dev 1.512
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

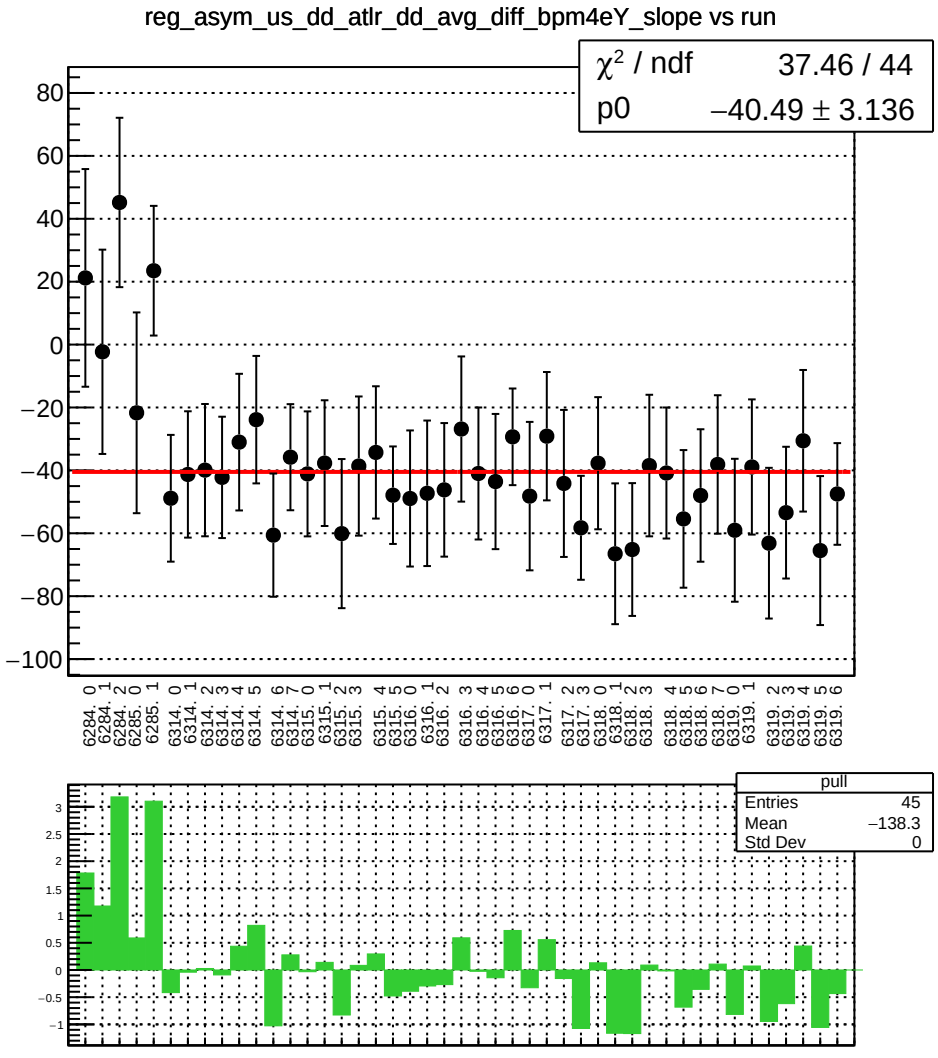

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 104.2 / 44
p0 −50.2 ± 0.2586
pull
Entries 45
Mean −92.18
Std Dev 0

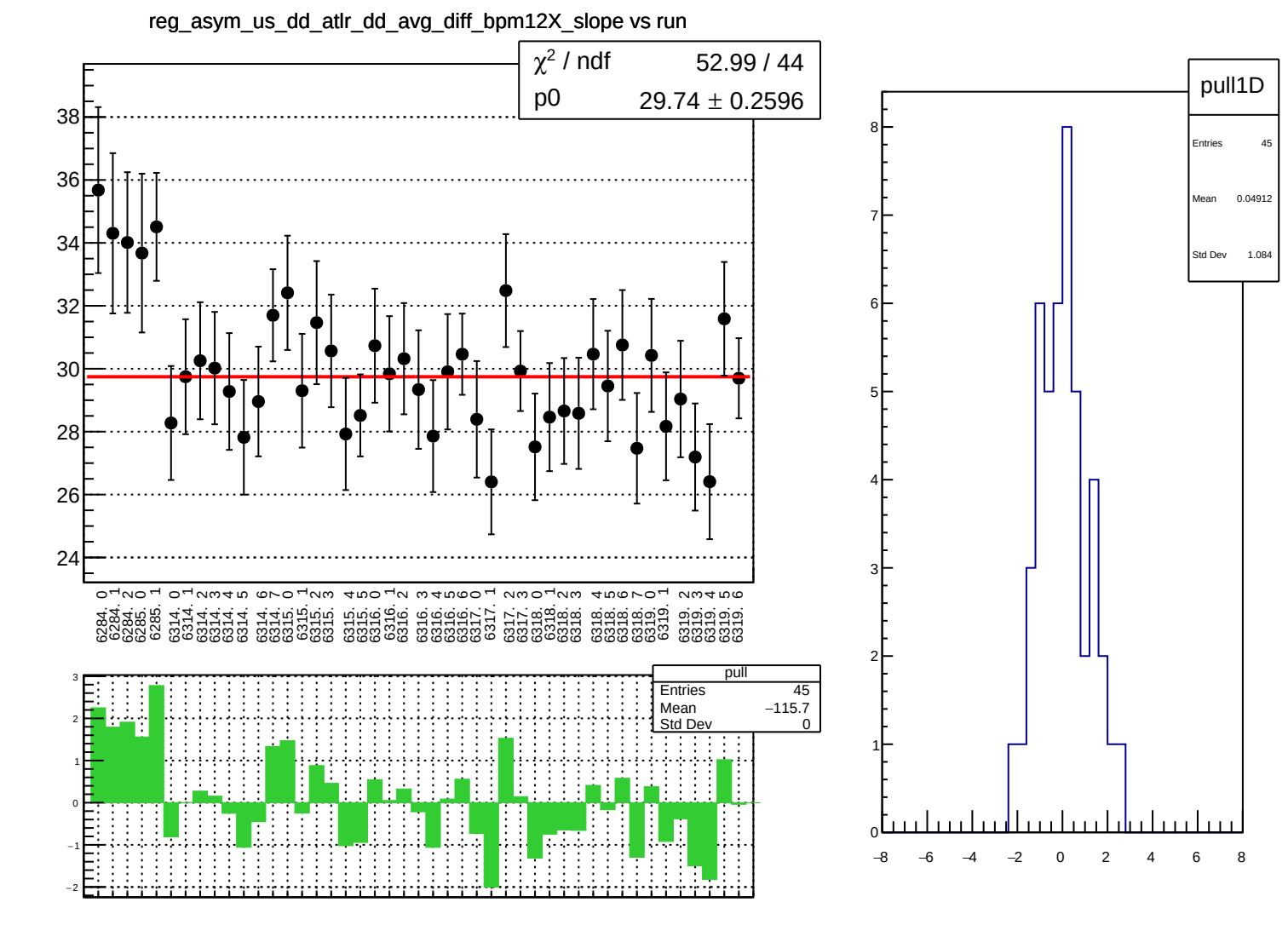

pull1D
Entries 45
Mean −0.1203
Std Dev 1.517

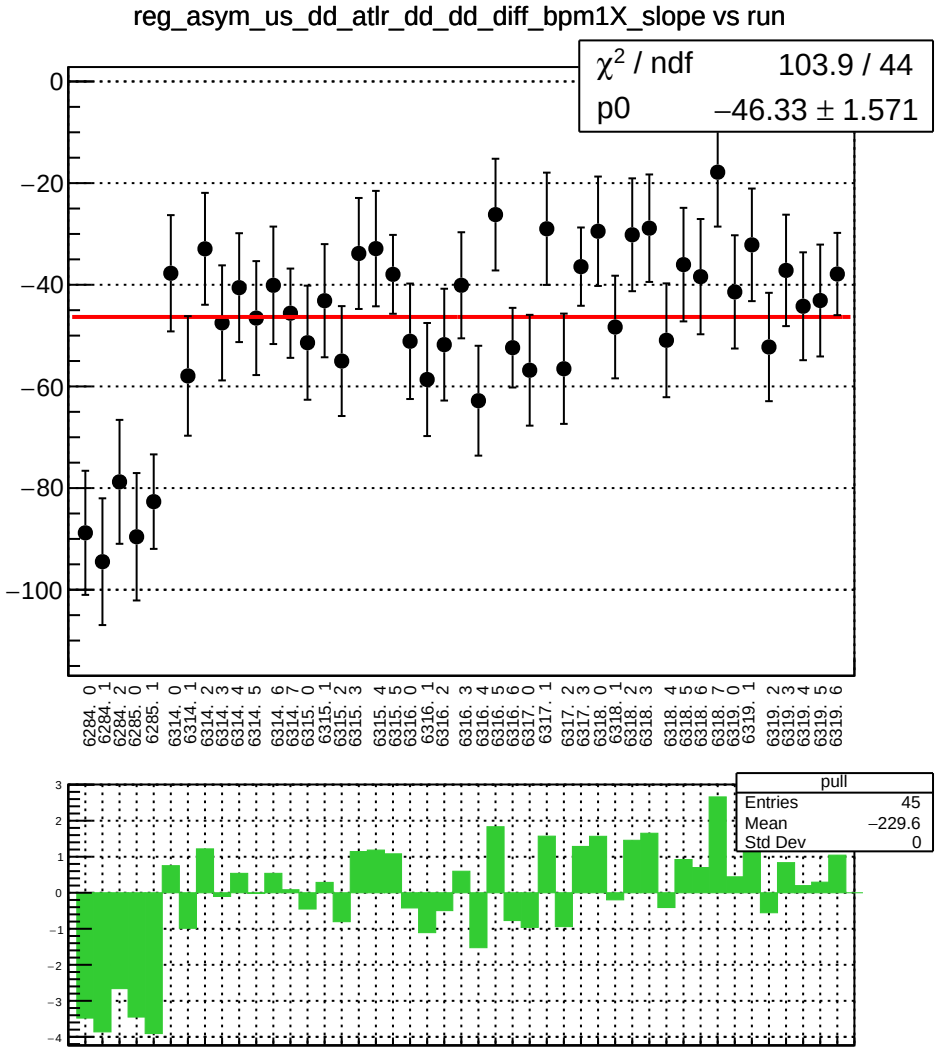

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 40.35 / 44
p0 64.49 ± 3.49
160
140
120
100
80
60
40
20
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −186
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02753
Std Dev 0.9465
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

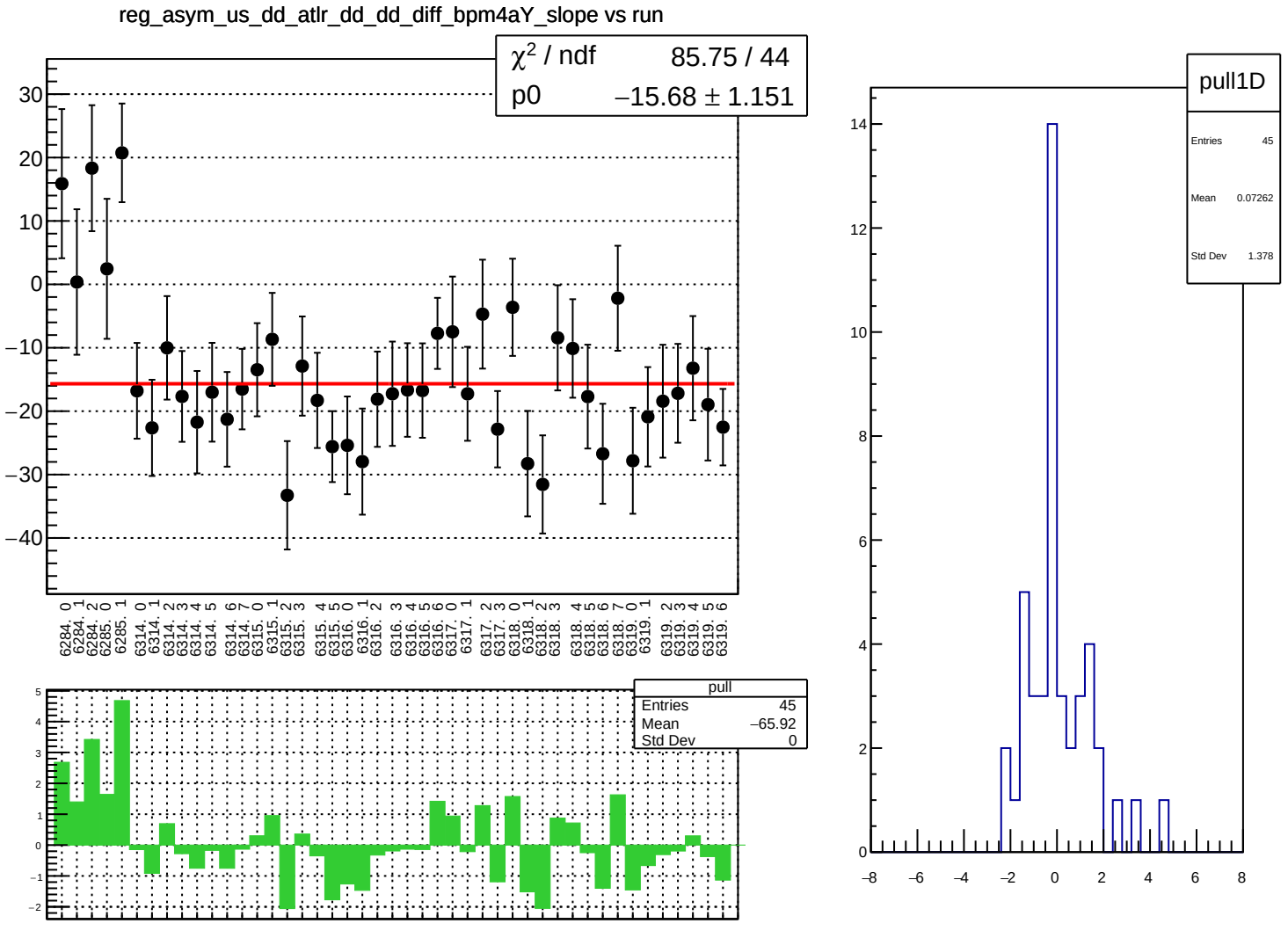

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.15 / 44
p0 14.2 ± 2.544
pull
Entries 45
Mean −220.5
Std Dev 0
pull1D
Entries 45
Mean −0.01932
Std Dev 0.717

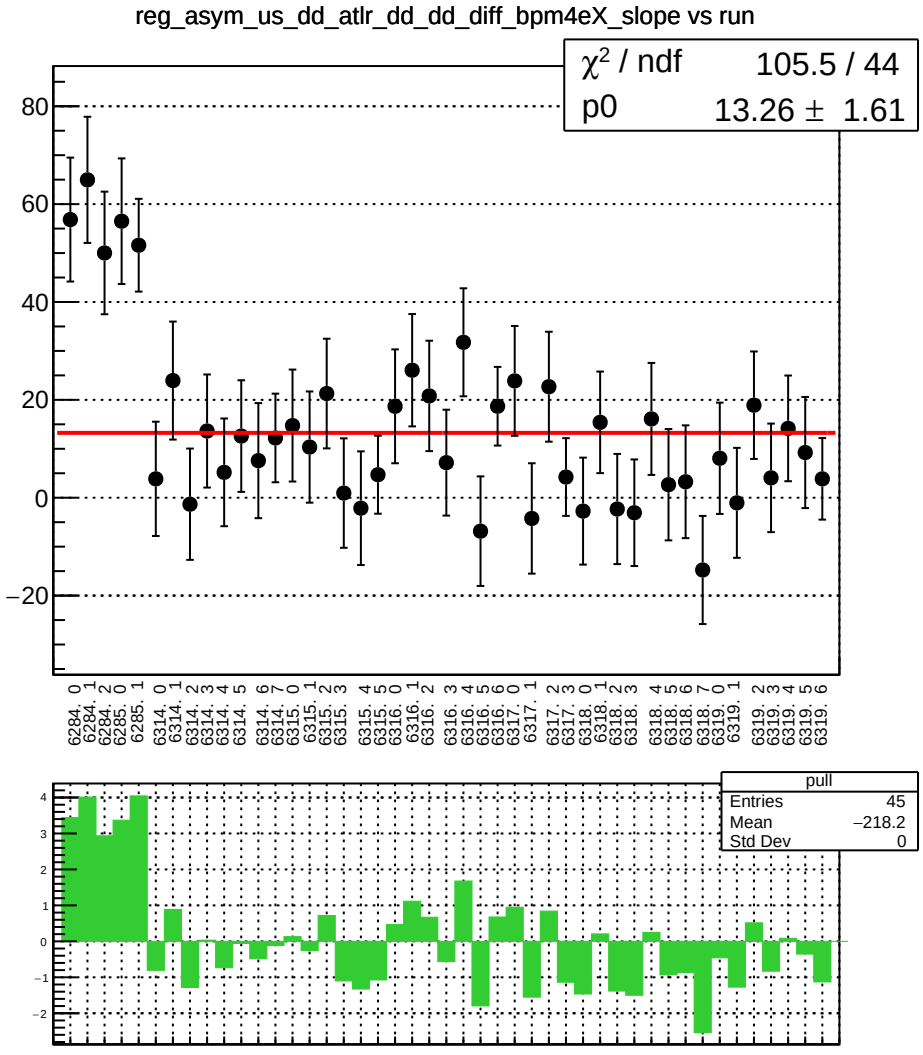

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.1 / 44
p0 −152.9 ± 3.576
pull
Entries 45
Mean −175.8
Std Dev 0
pull1D
Entries 45
Mean −0.02915
Std Dev 0.9435

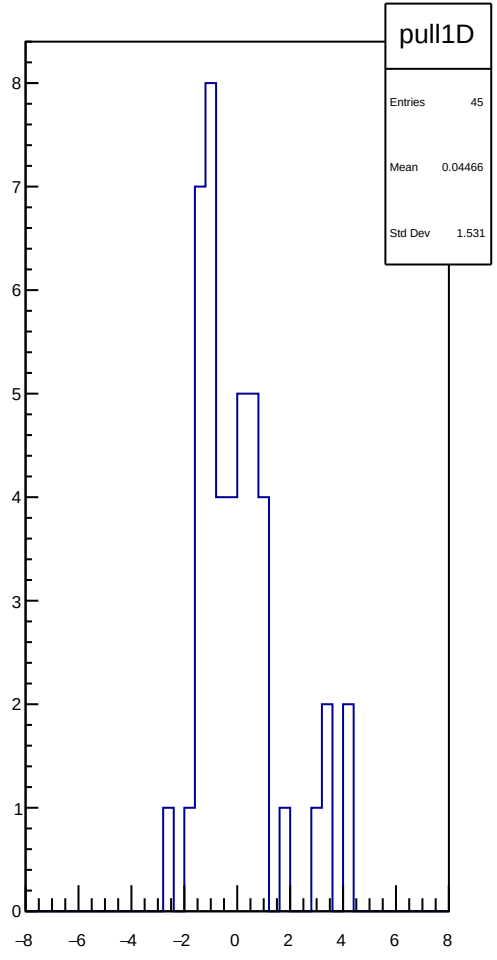

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.46 / 44
p0 −40.49 ± 3.136
pull
Entries 45
Mean −138.3
Std Dev 0
pull1D
Entries 45
Mean 0.03971
Std Dev 0.9115

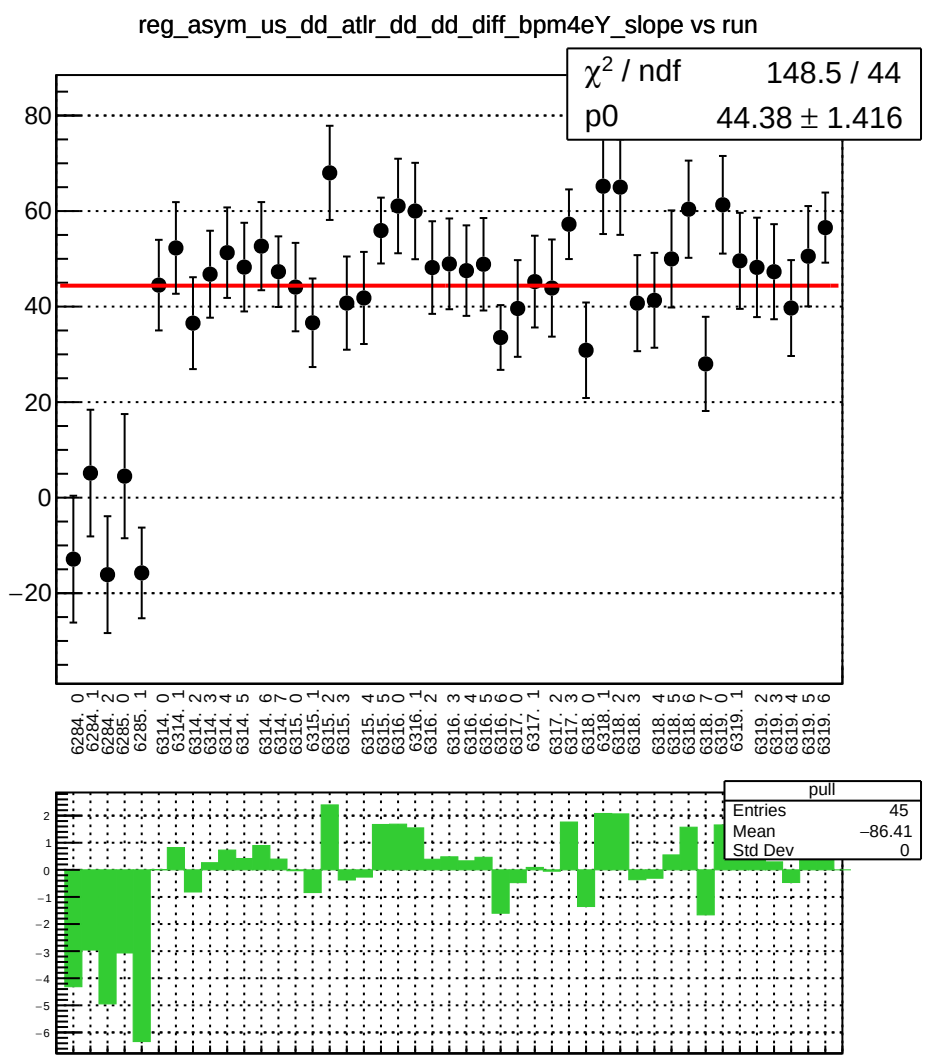

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 52.99 / 44
p0 29.74 ± 0.2596
38
36
34
32
30
28
26
24
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean −115.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.04912
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

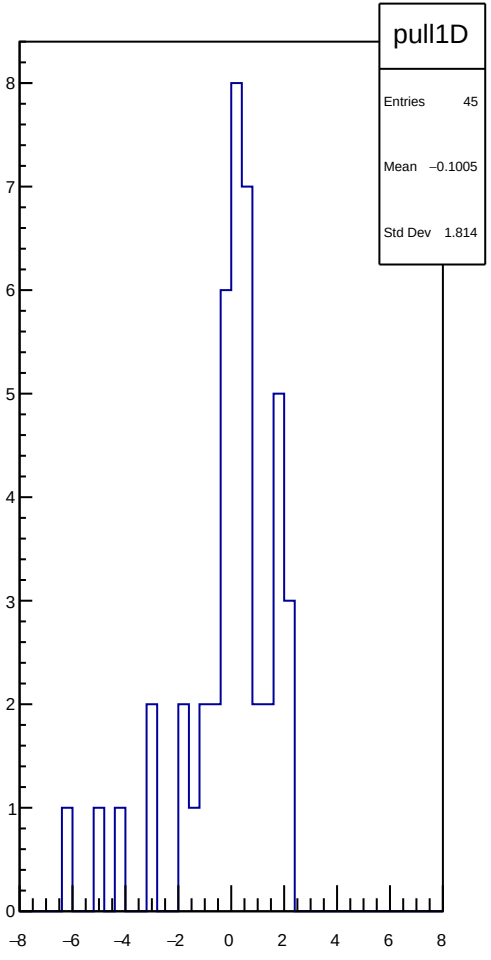

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 103.9 / 44
p0 −46.33 ± 1.571
pull
Entries 45
Mean −229.6
Std Dev 0
pull1D
Entries 45
Mean −0.04309
Std Dev 1.519

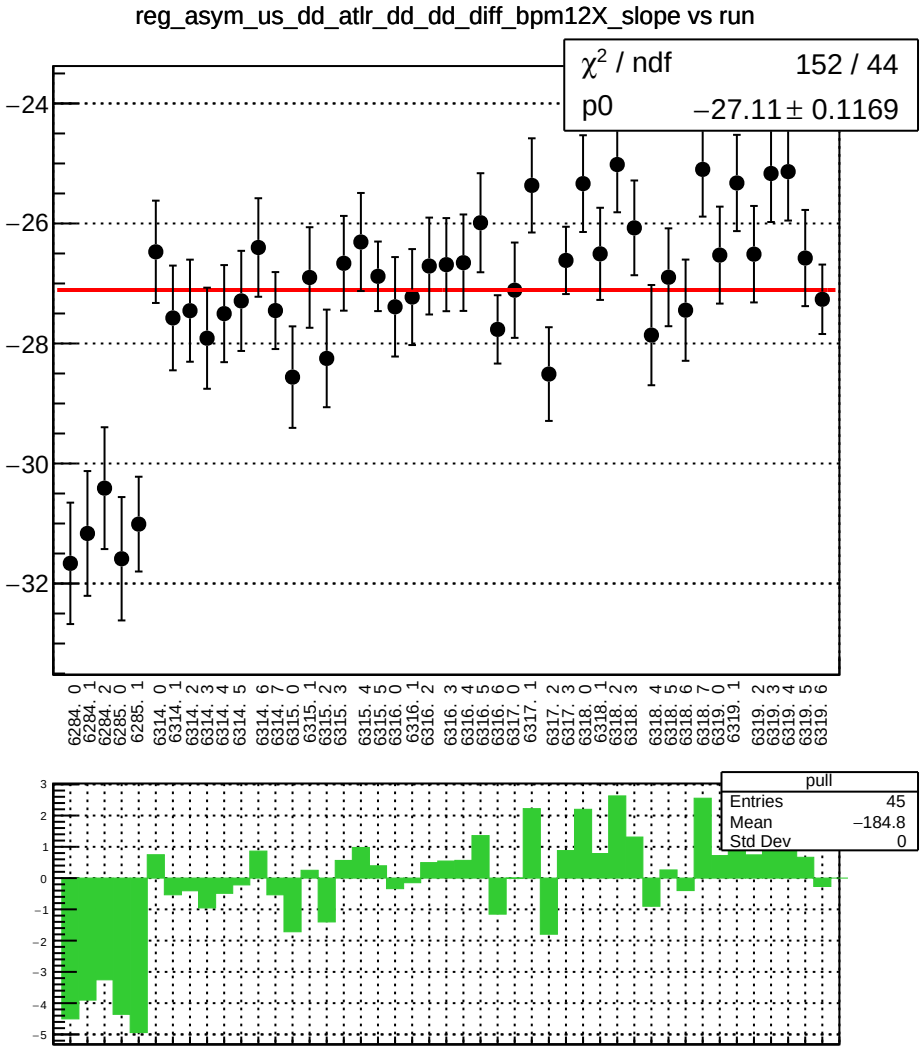

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.75 / 44
p0 −15.68 ± 1.151
pull
Entries 45
Mean −65.92
Std Dev 0
pull1D
Entries 45
Mean 0.07262
Std Dev 1.378

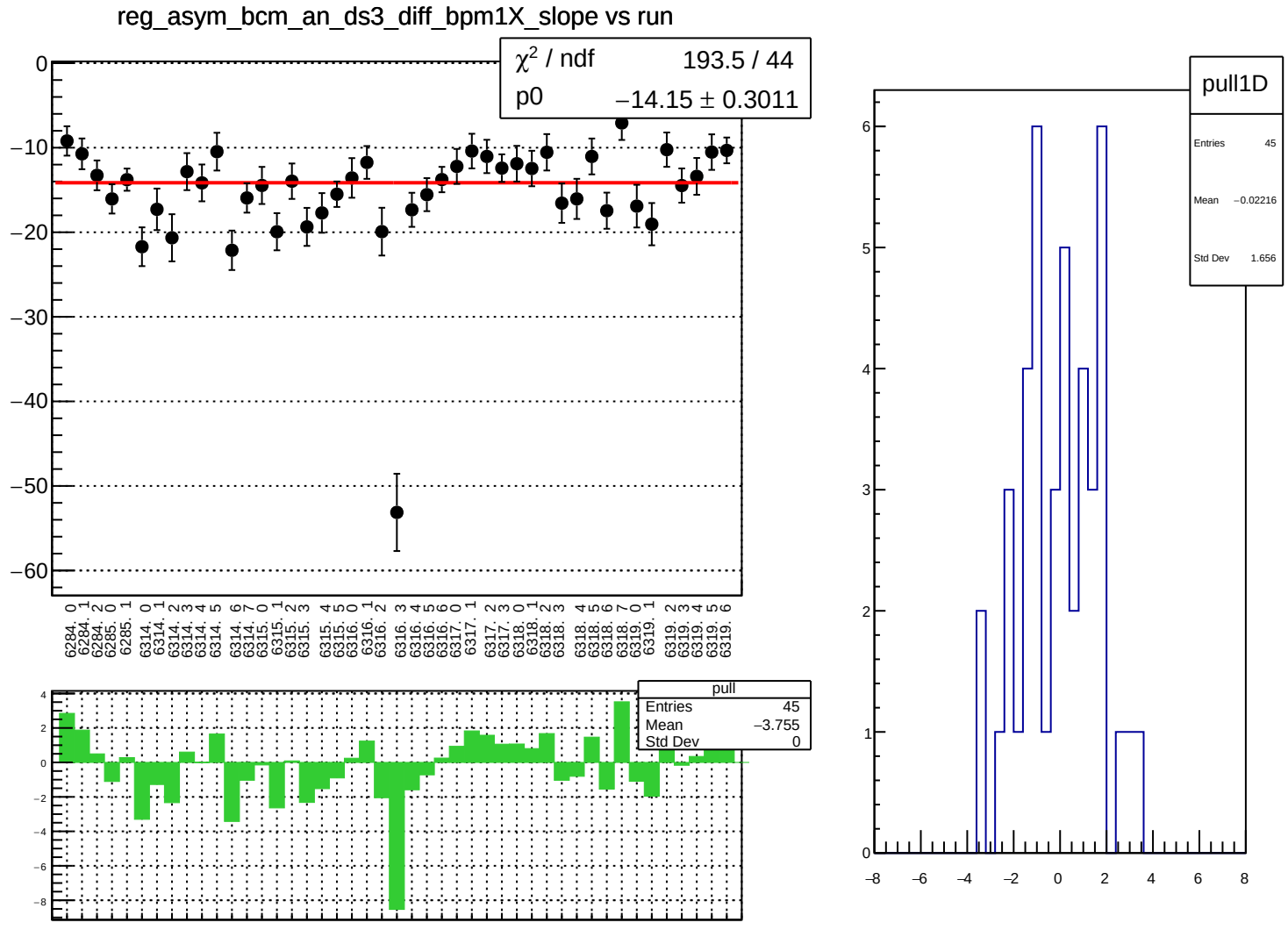

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.5 / 44
p0 13.26 ± 1.61
pull
Entries 45
Mean −218.2
Std Dev 0

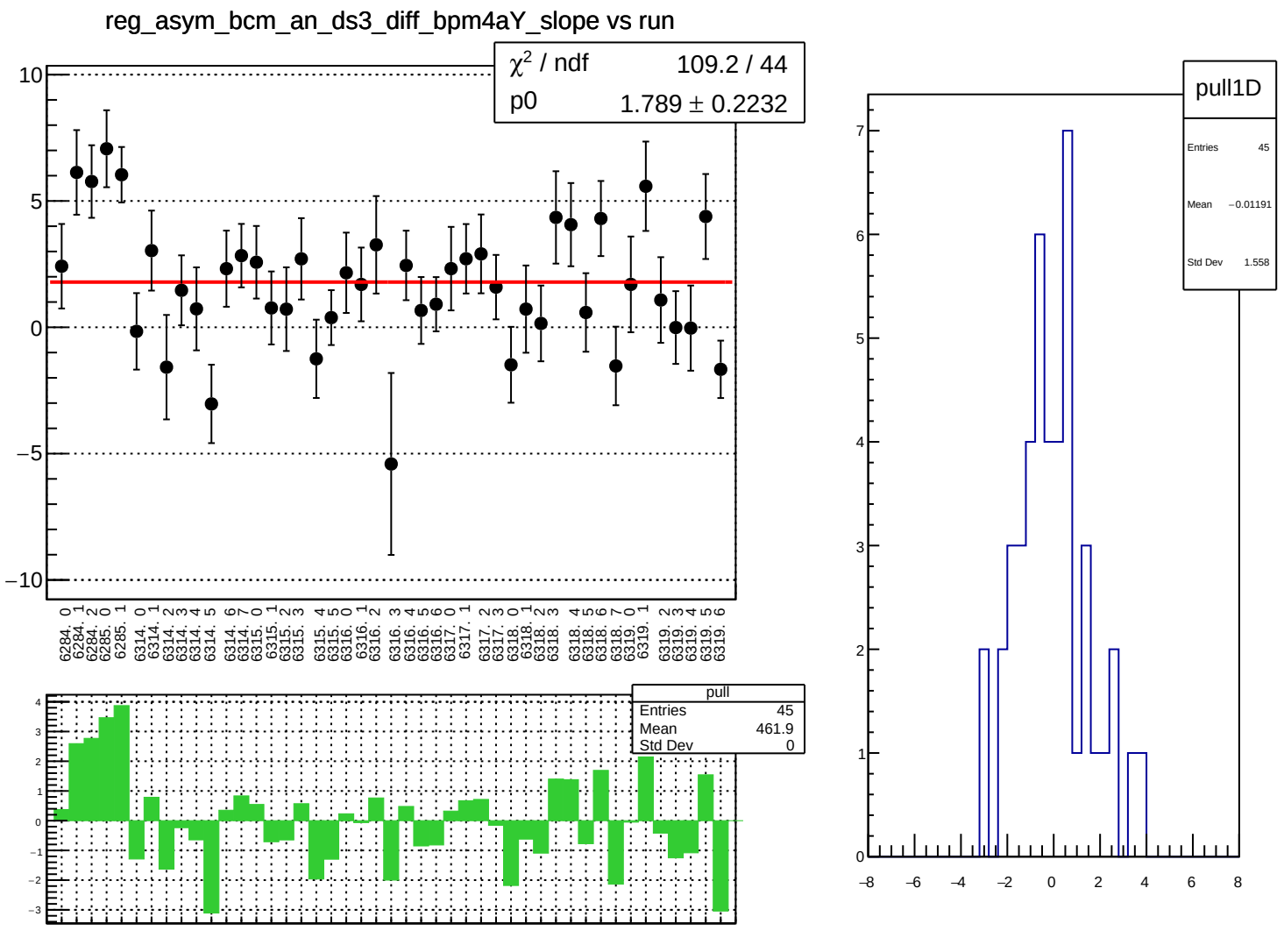

pull1D
Entries 45
Mean 0.04466
Std Dev 1.531

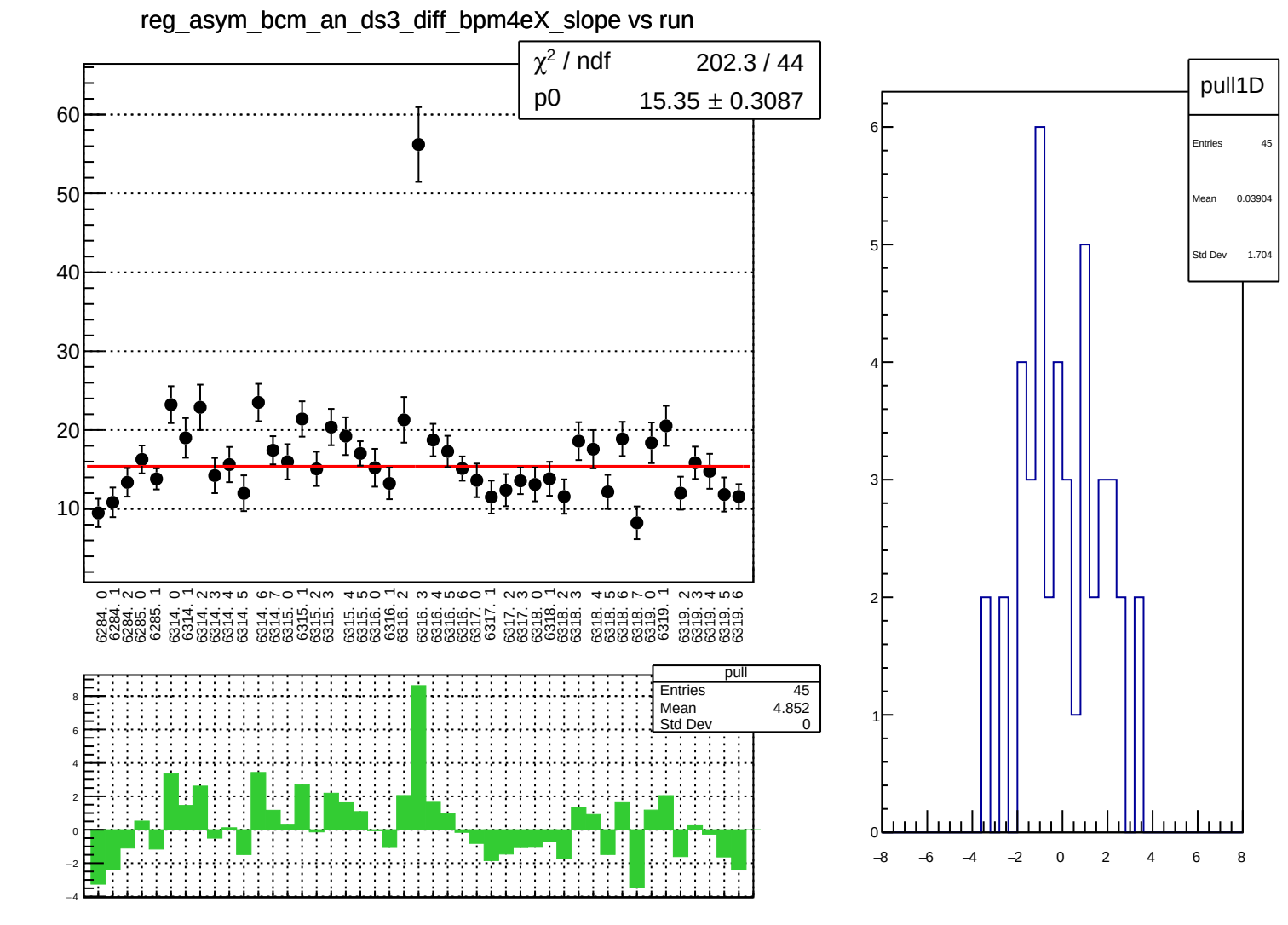

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 148.5 / 44
p0 44.38 ± 1.416
pull
Entries 45
Mean −86.41
Std Dev 0

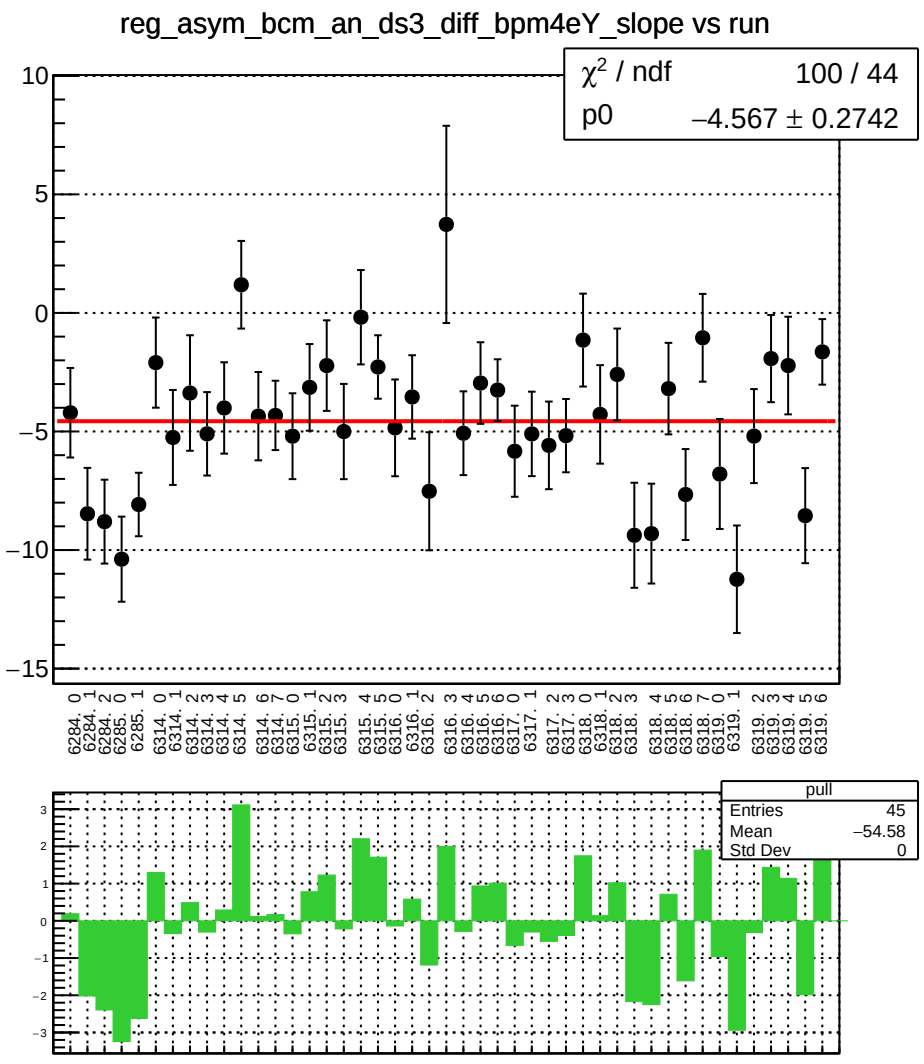

pull1D
Entries 45
Mean −0.1005
Std Dev 1.814

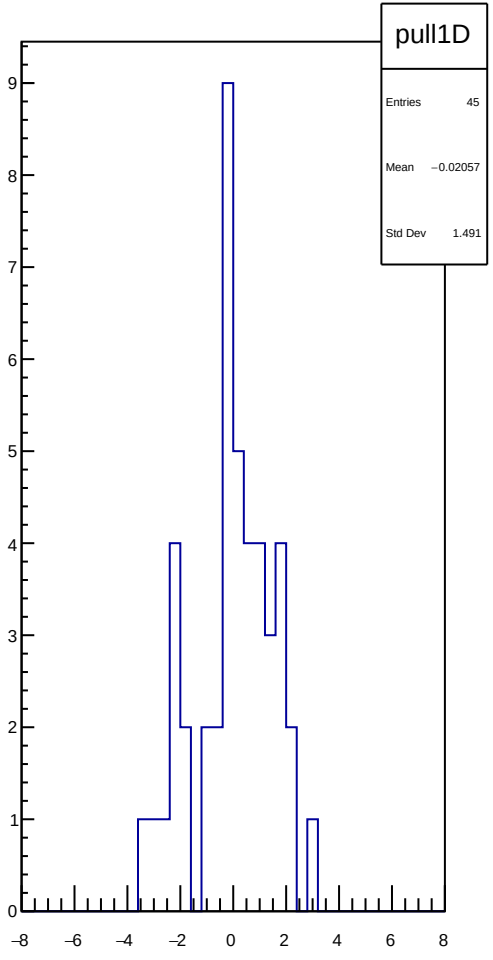

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 152 / 44
p0 −27.11 ± 0.1169
pull
Entries 45
Mean −184.8
Std Dev 0
pull1D
Entries 45
Mean −0.07651
Std Dev 1.836

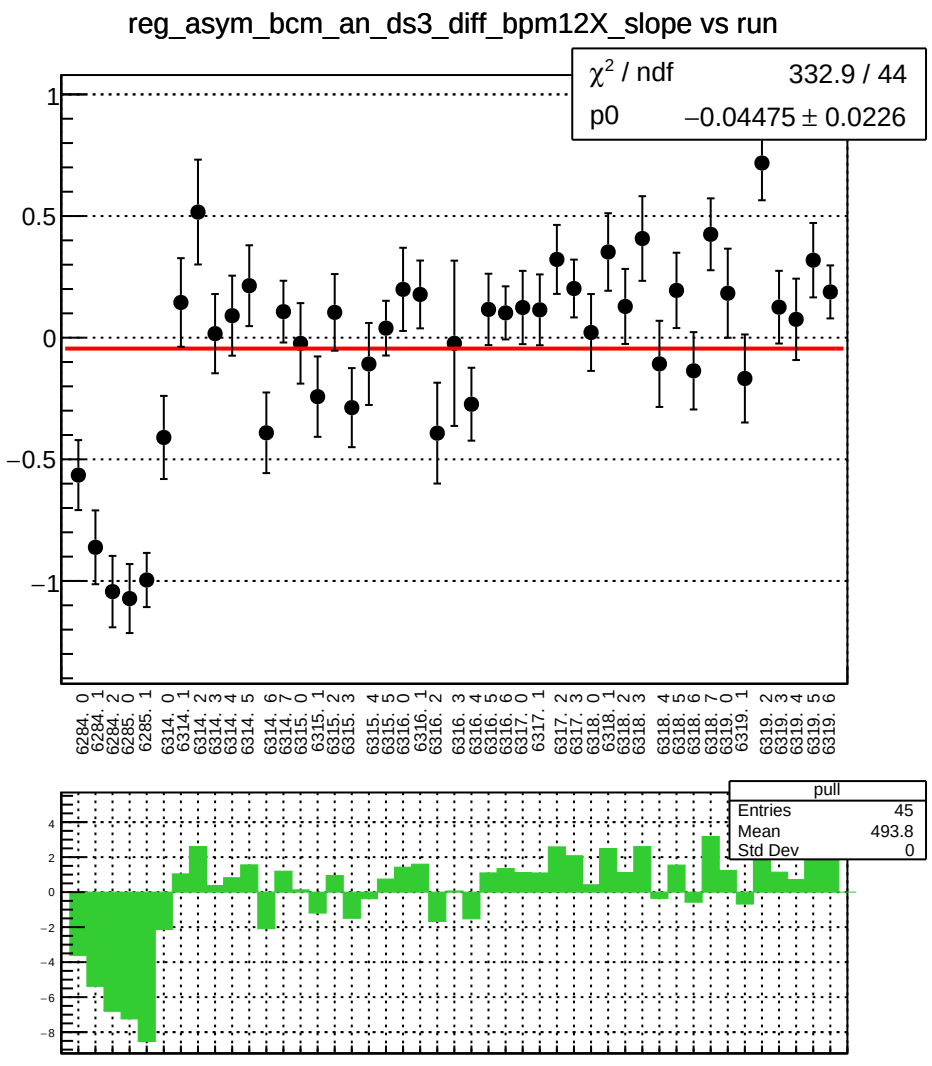

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 193.5 / 44
p0 −14.15 ± 0.3011
pull
Entries 45
Mean −3.755
Std Dev 0
pull1D
Entries 45
Mean −0.02216
Std Dev 1.656

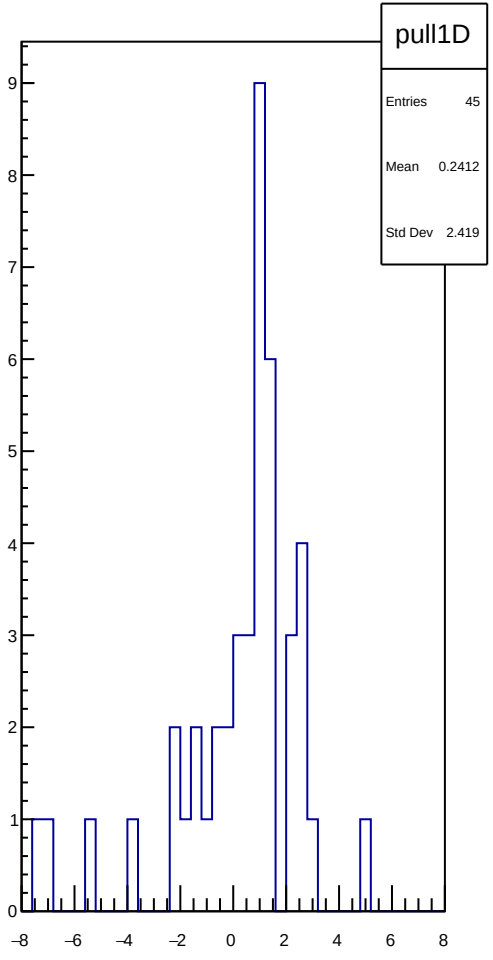

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 109.2 / 44
p0 1.789 ± 0.2232
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 461.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01191
Std Dev 1.558
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

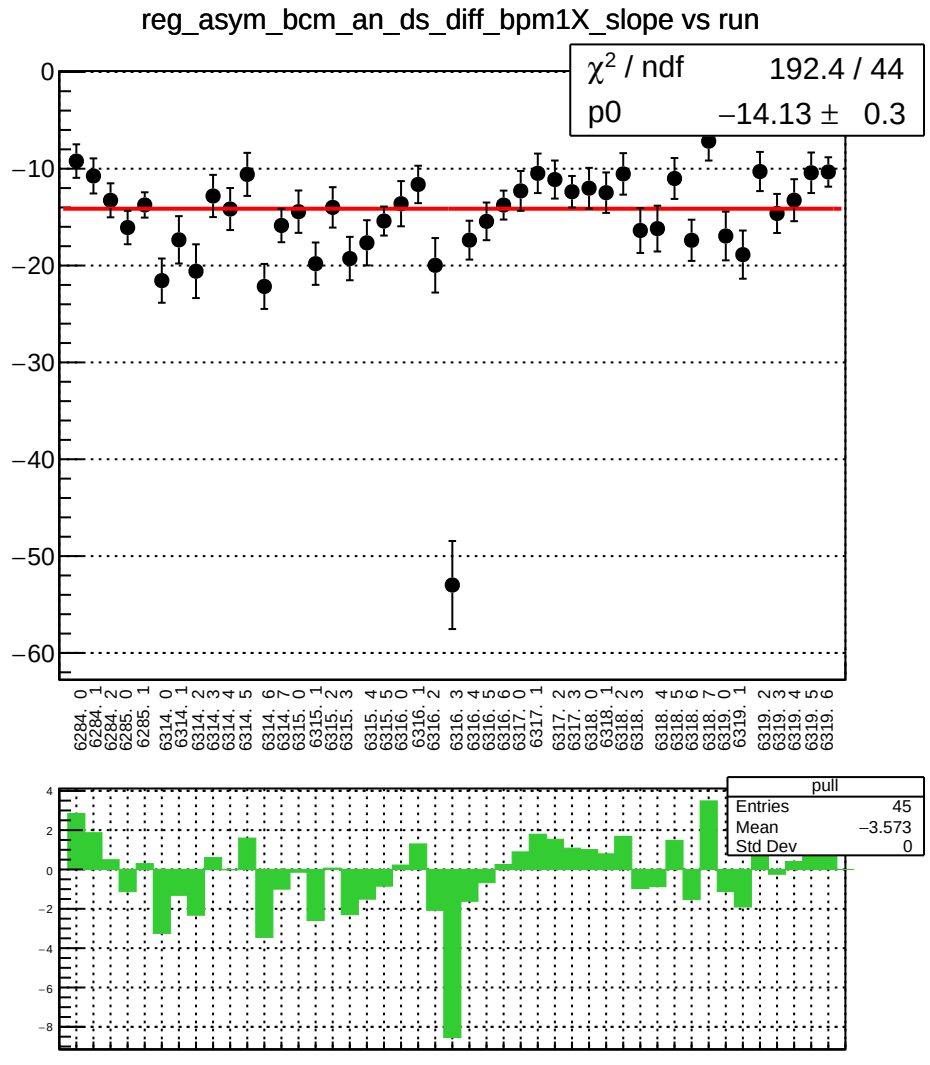

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 202.3 / 44
p0 15.35 ± 0.3087
pull
Entries 45
Mean 4.852
Std Dev 0
pull1D
Entries 45
Mean 0.03904
Std Dev 1.704

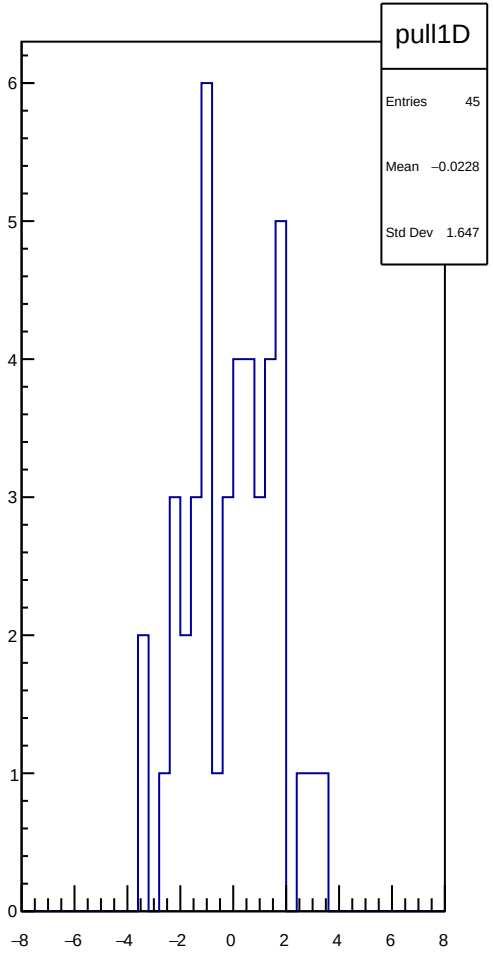

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 100 / 44
p0 −4.567 ± 0.2742
pull
Entries 45
Mean −54.58
Std Dev 0

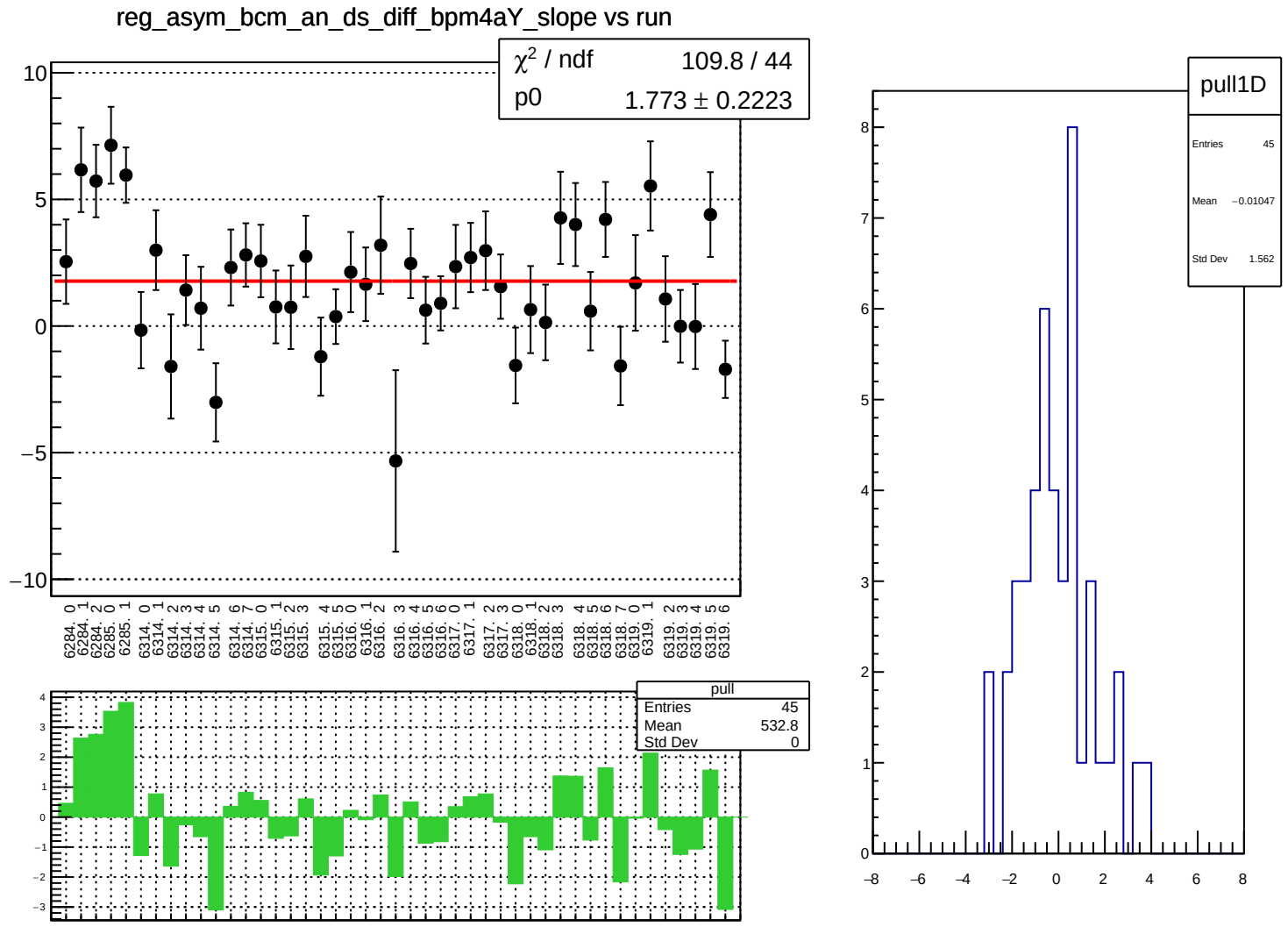

pull1D
Entries 45
Mean −0.02057
Std Dev 1.491

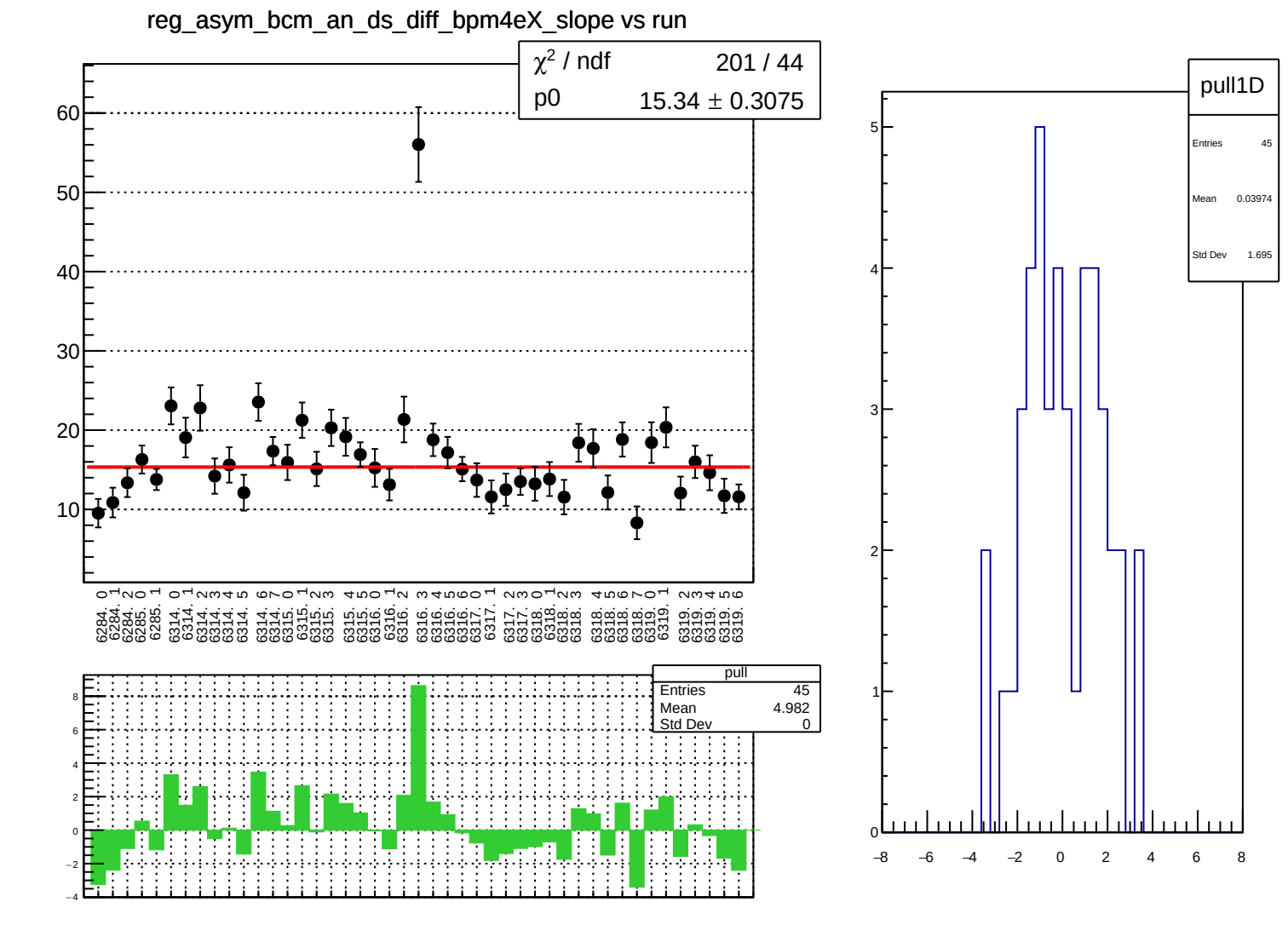

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 332.9 / 44
p0 −0.04475 ± 0.0226
pull
Entries 45
Mean 493.8
Std Dev 0

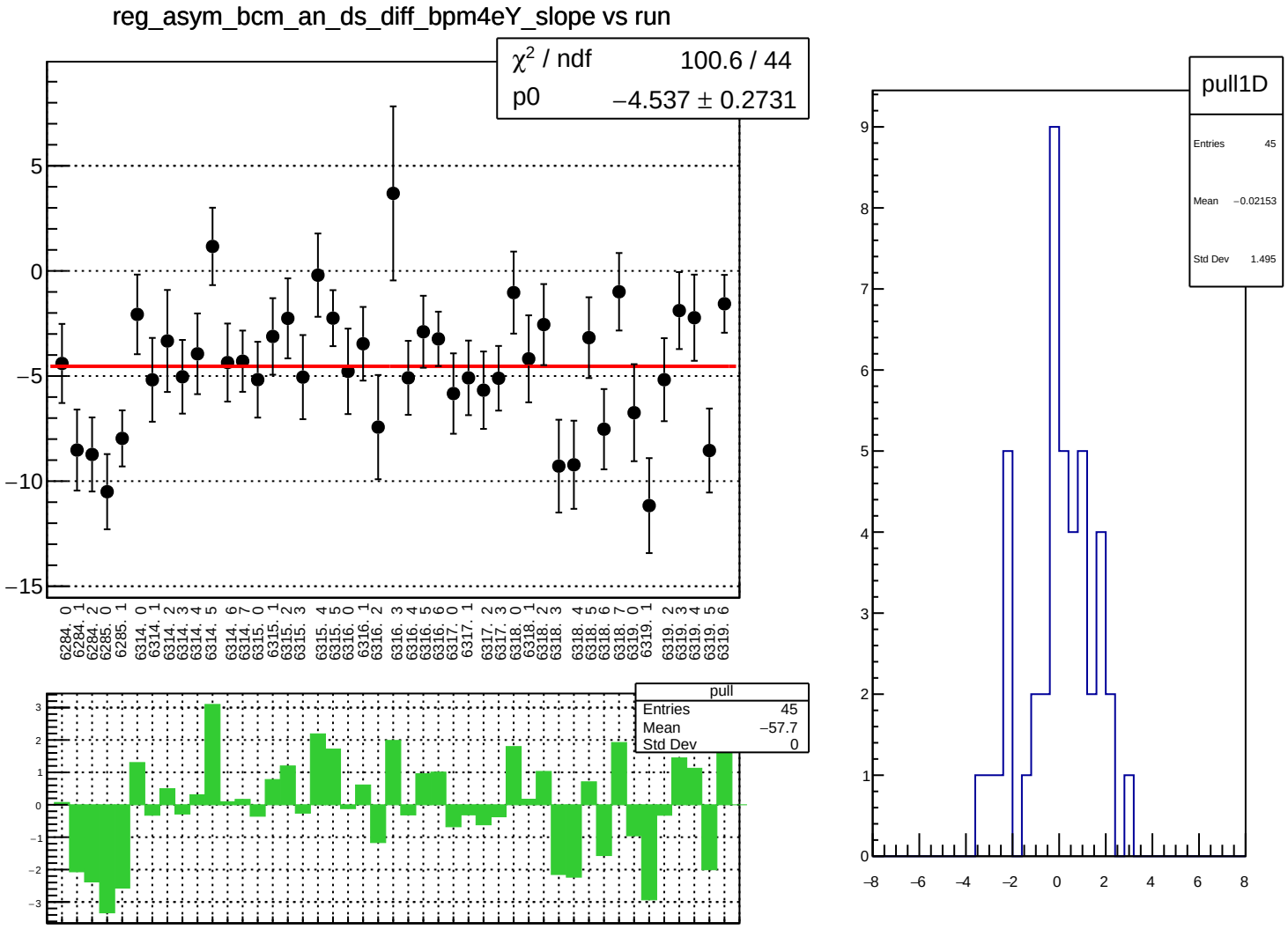

pull1D
Entries 45
Mean 0.2412
Std Dev 2.419

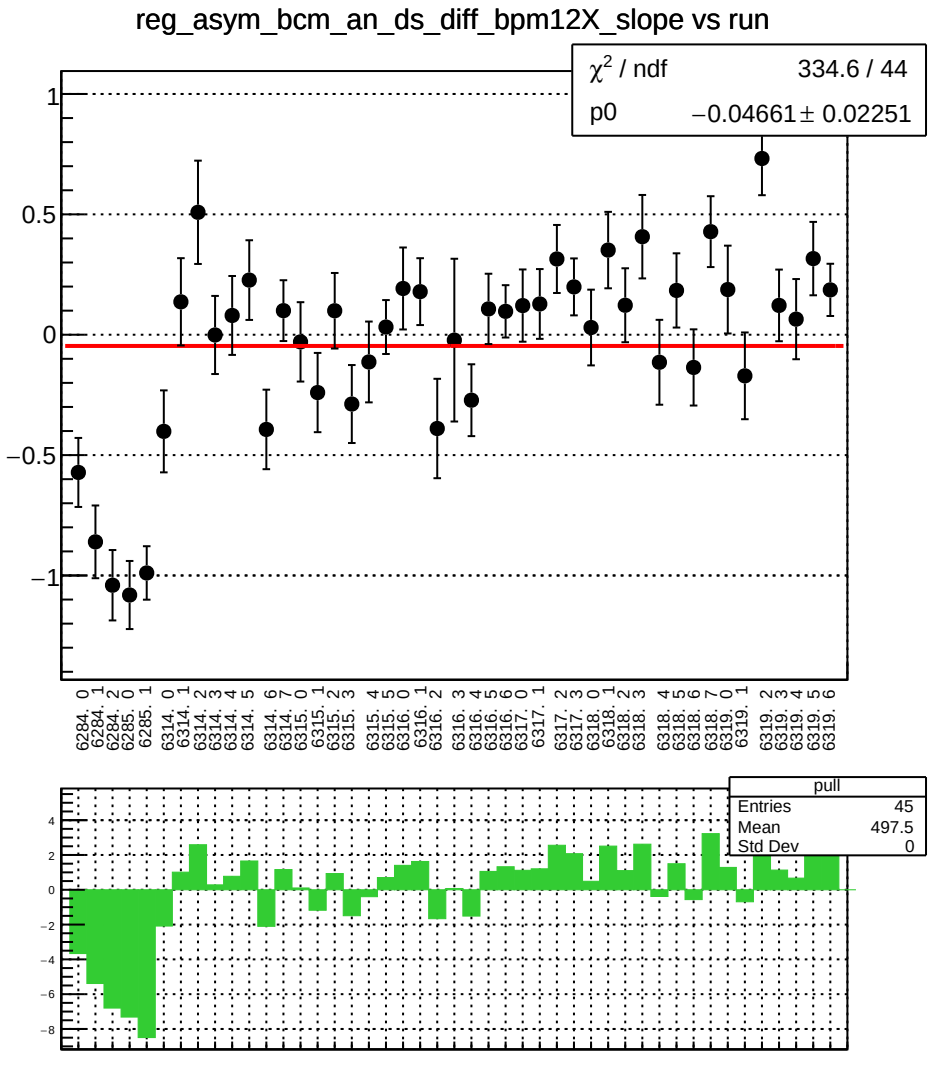

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 192.4 / 44
p0 −14.13 ± 0.3
pull
Entries 45
Mean −3.573
Std Dev 0

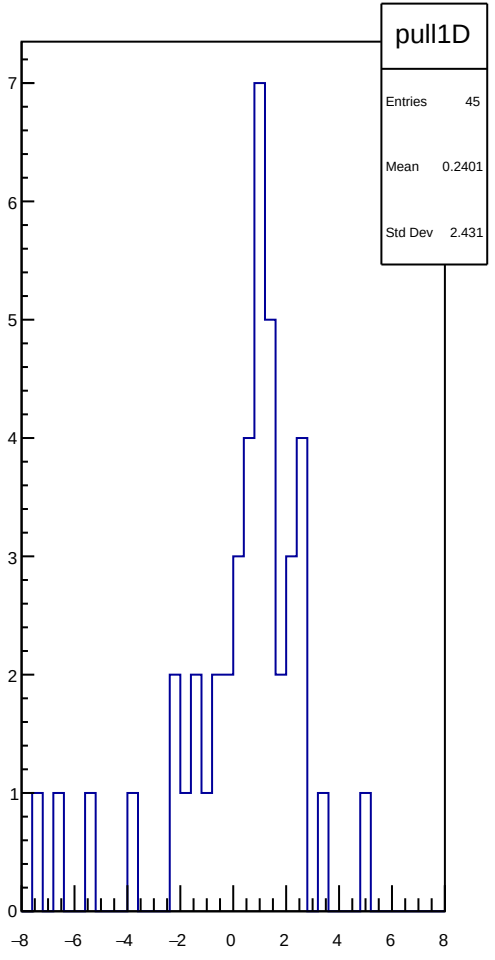

pull1D
Entries 45
Mean −0.0228
Std Dev 1.647

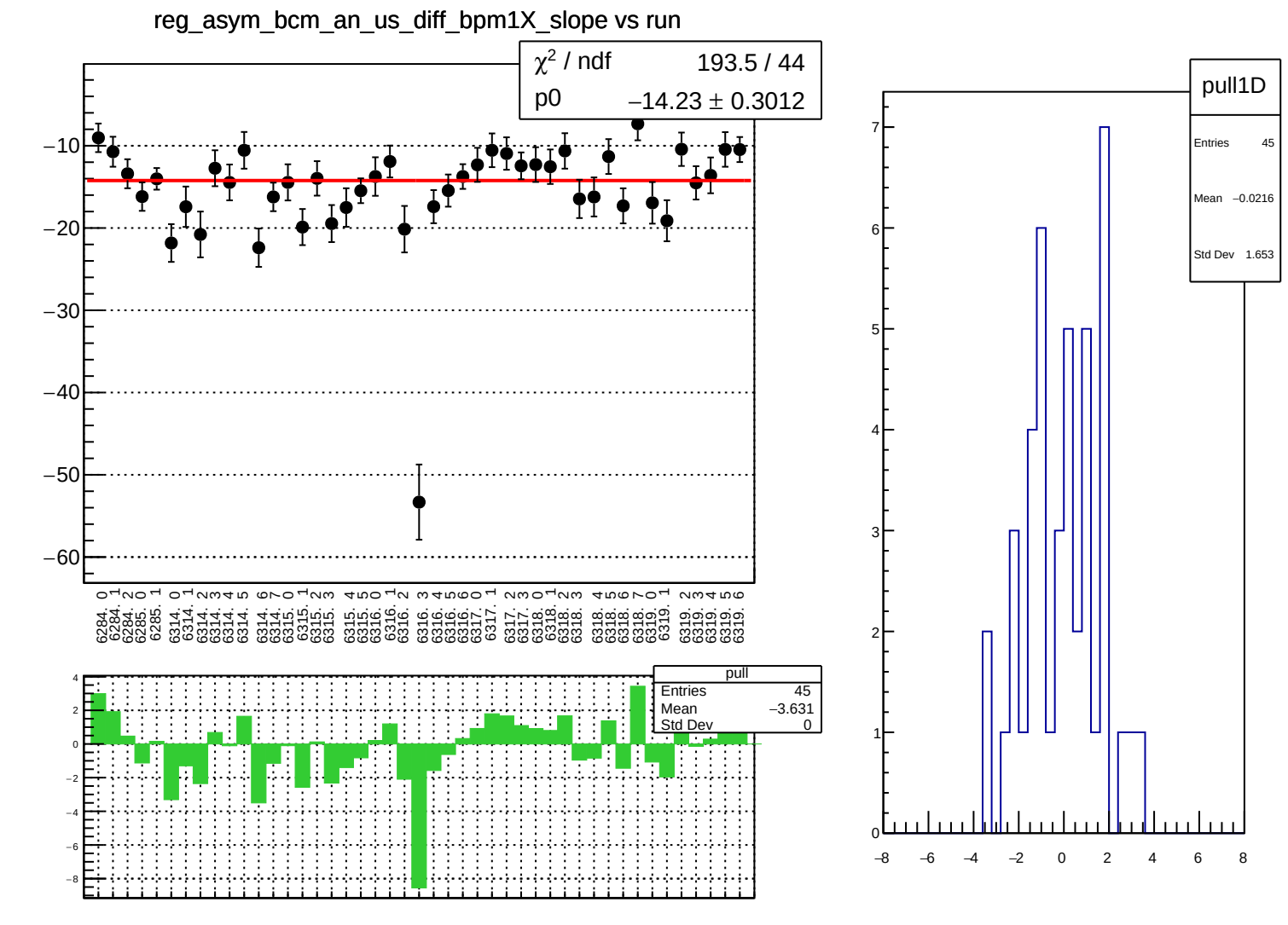

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 109.8 / 44
p0 1.773 ± 0.2223
pull
Entries 45
Mean 532.8
Std Dev 0
pull1D
Entries 45
Mean −0.01047
Std Dev 1.562

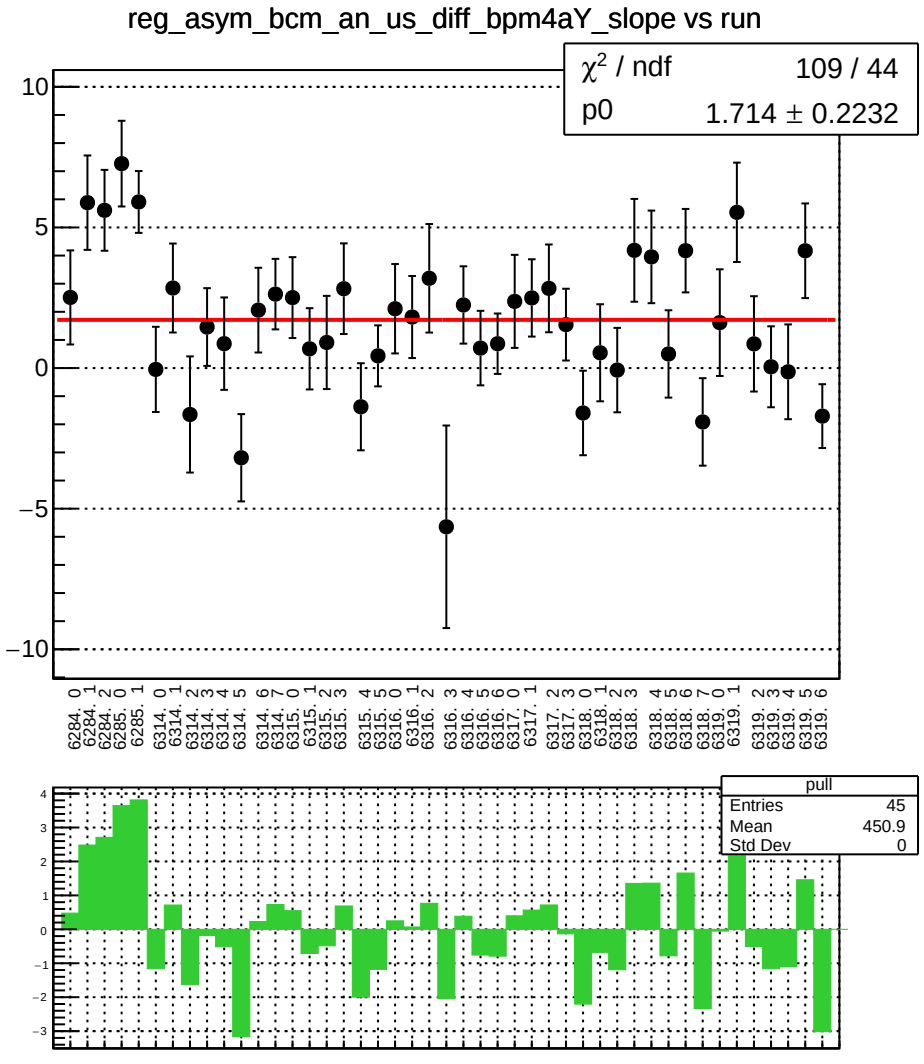

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 201 / 44
p0 15.34 ± 0.3075
pull
Entries 45
Mean 4.982
Std Dev 0
pull1D
Entries 45
Mean 0.03974
Std Dev 1.695

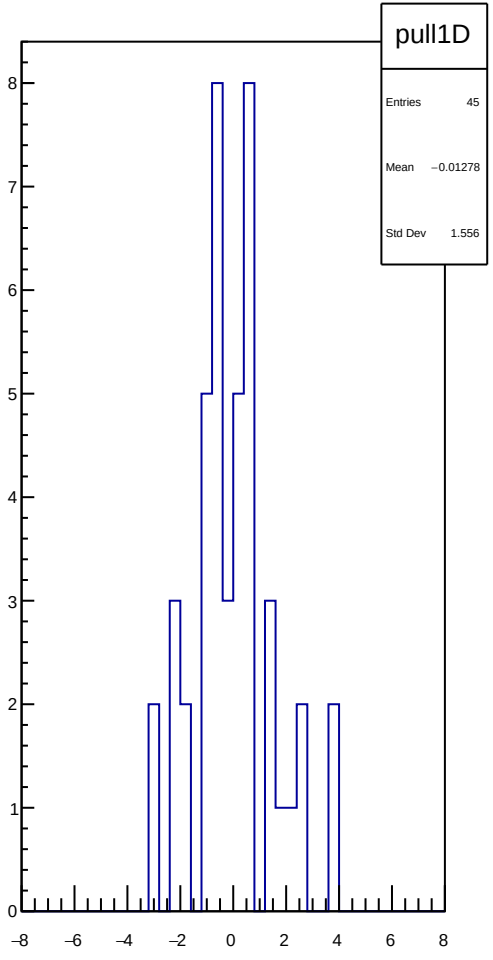

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 100.6 / 44
p0 −4.537 ± 0.2731
pull
Entries 45
Mean −57.7
Std Dev 0
pull1D
Entries 45
Mean −0.02153
Std Dev 1.495

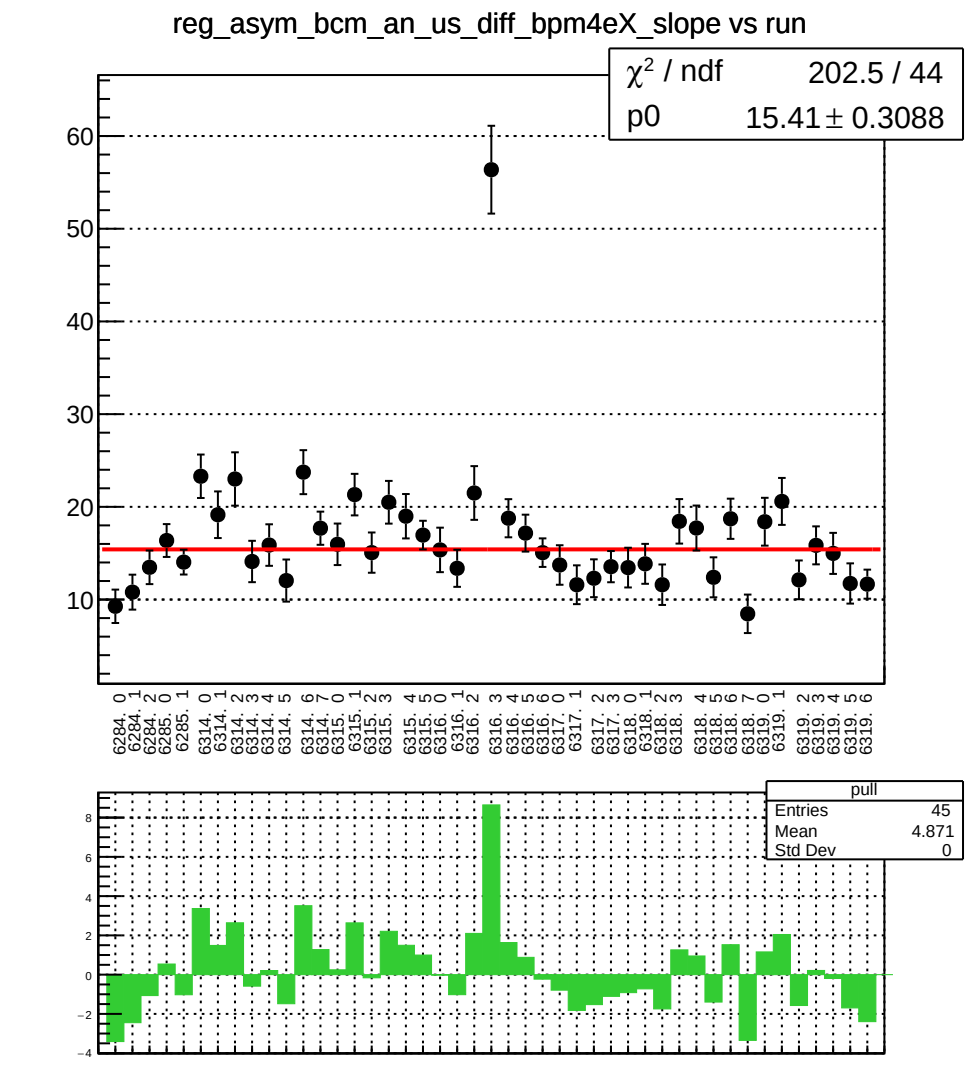

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 334.6 / 44
p0 −0.04661 ± 0.02251
pull
Entries 45
Mean 497.5
Std Dev 0

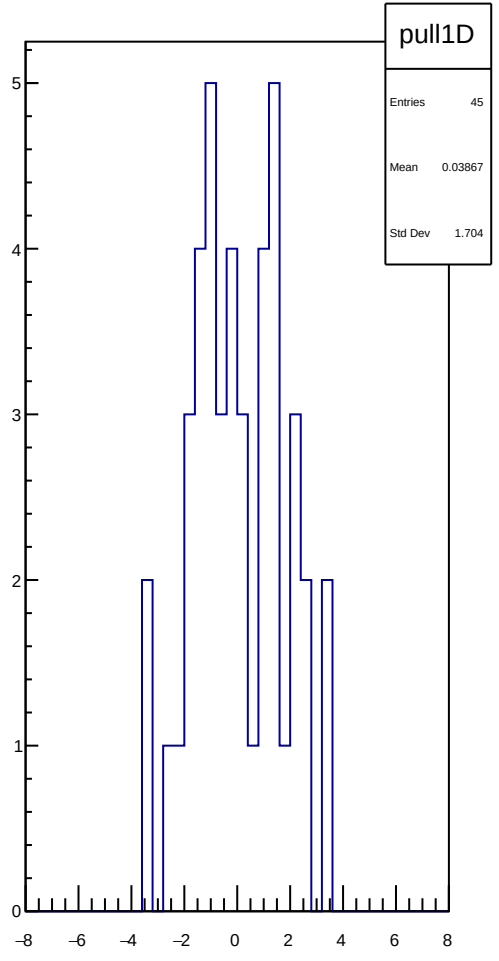

pull1D
Entries 45
Mean 0.2401
Std Dev 2.431

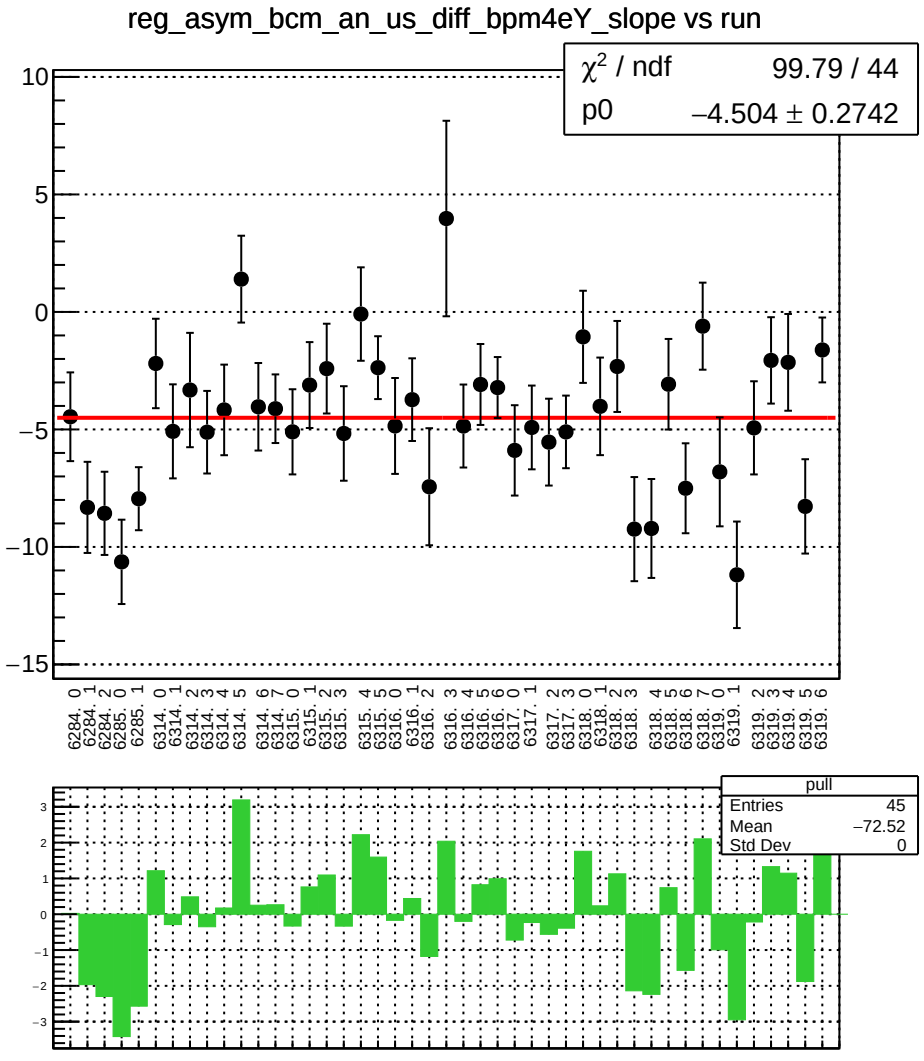

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 193.5 / 44
p0 −14.23 ± 0.3012
pull
Entries 45
Mean −3.631
Std Dev 0
pull1D
Entries 45
Mean −0.0216
Std Dev 1.653

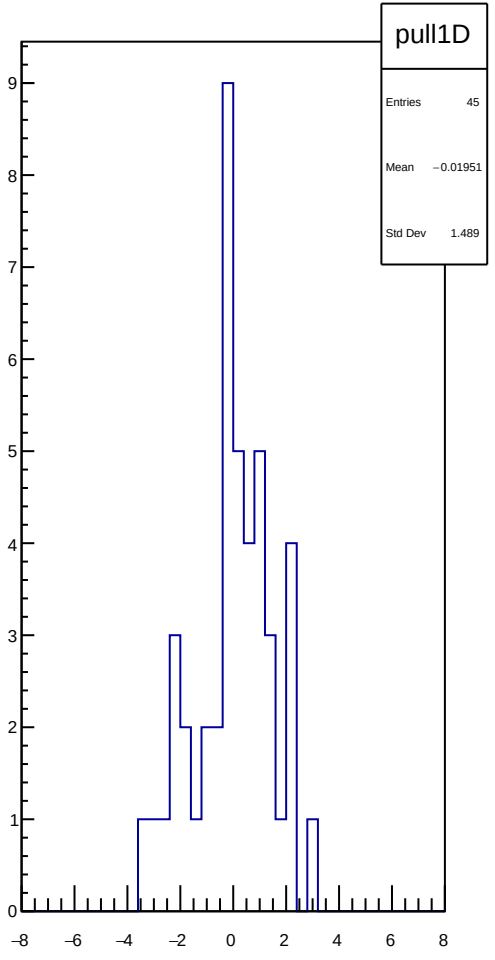

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 109 / 44
p0 1.714 ± 0.2232
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 450.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

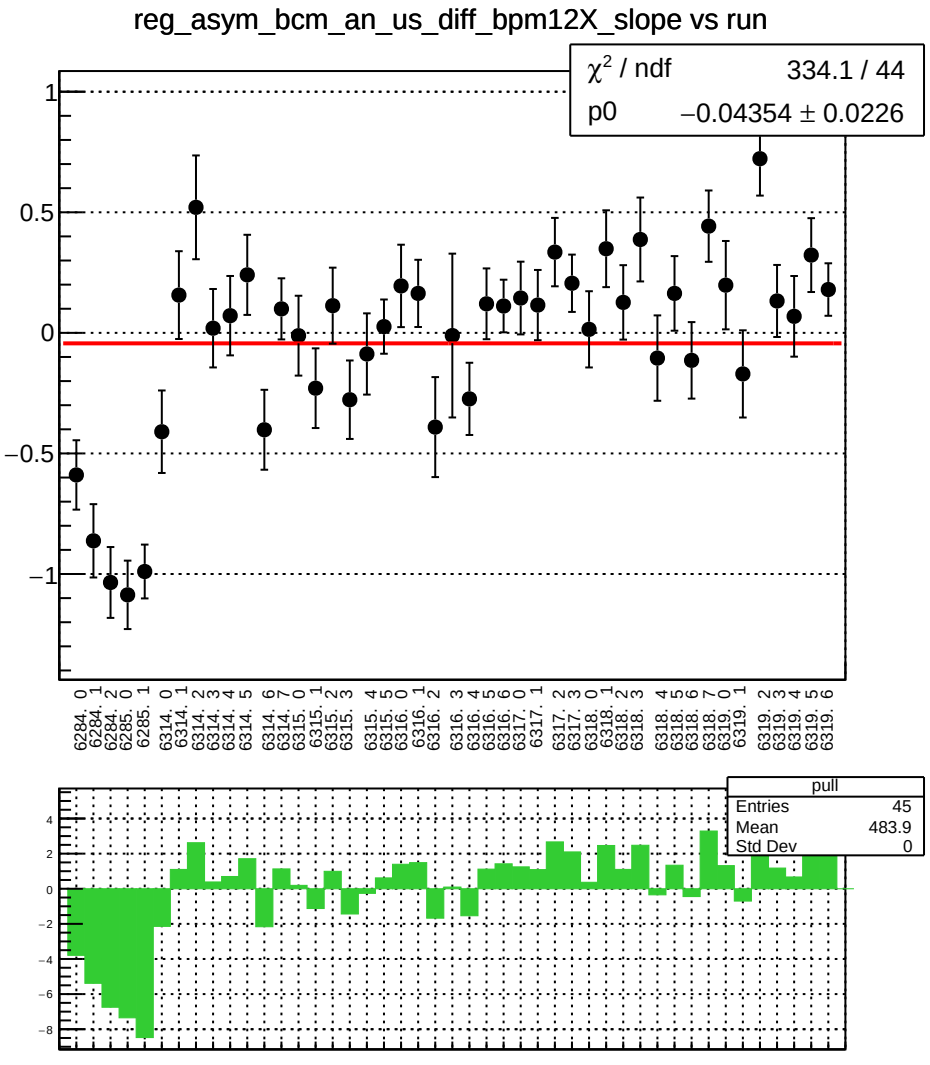

pull1D
Entries 45
Mean −0.01278
Std Dev 1.556
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

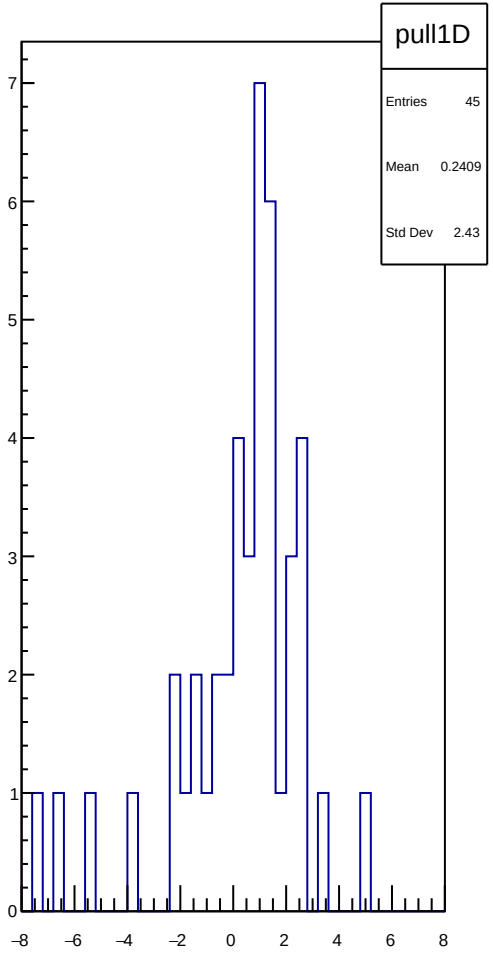

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 202.5 / 44
p0 15.41 ± 0.3088
pull
Entries 45
Mean 4.871
Std Dev 0

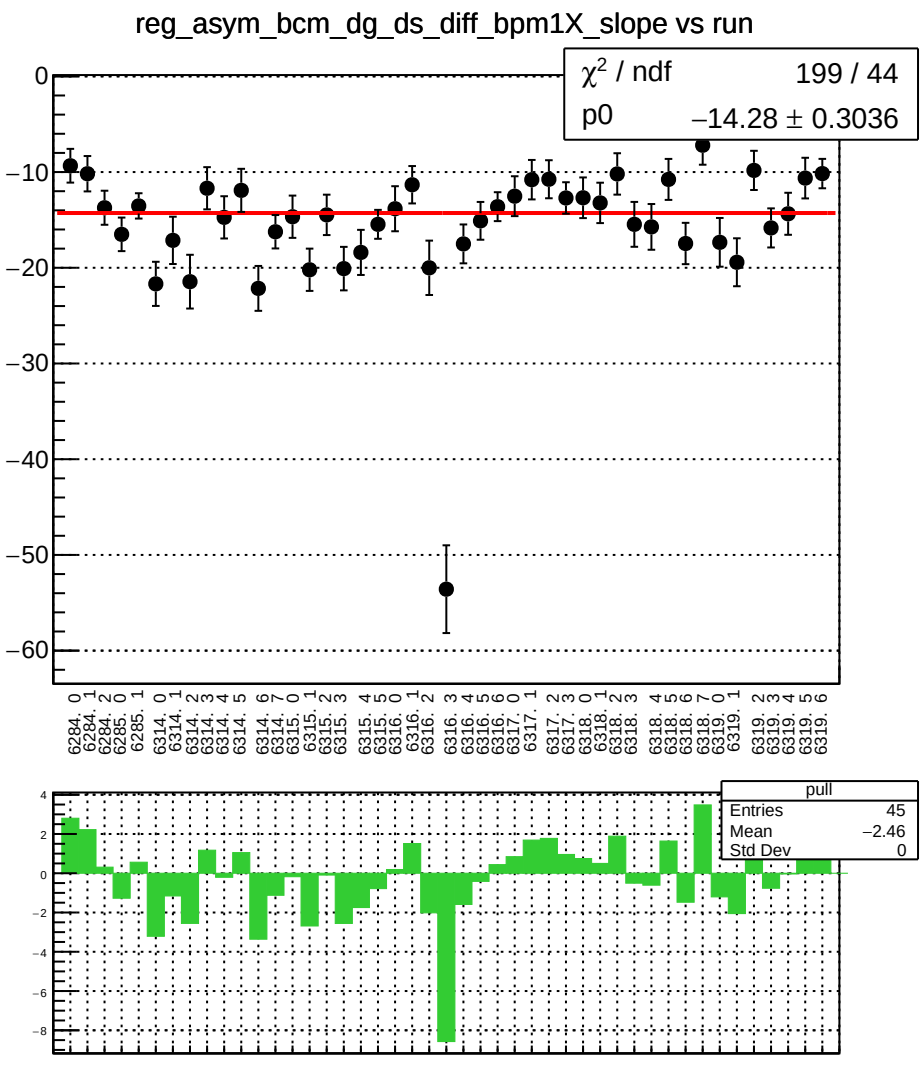

pull1D
Entries 45
Mean 0.03867
Std Dev 1.704

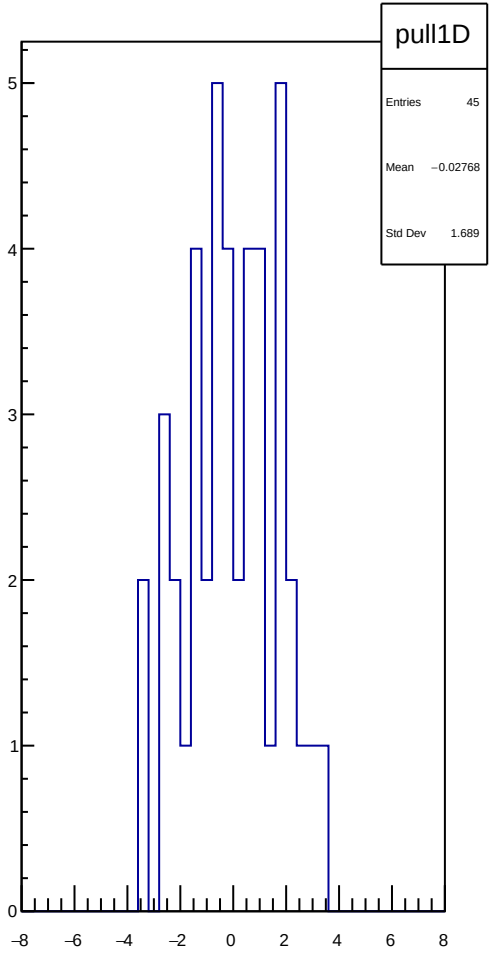

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 99.79 / 44
p0 −4.504 ± 0.2742
pull
Entries 45
Mean −72.52
Std Dev 0

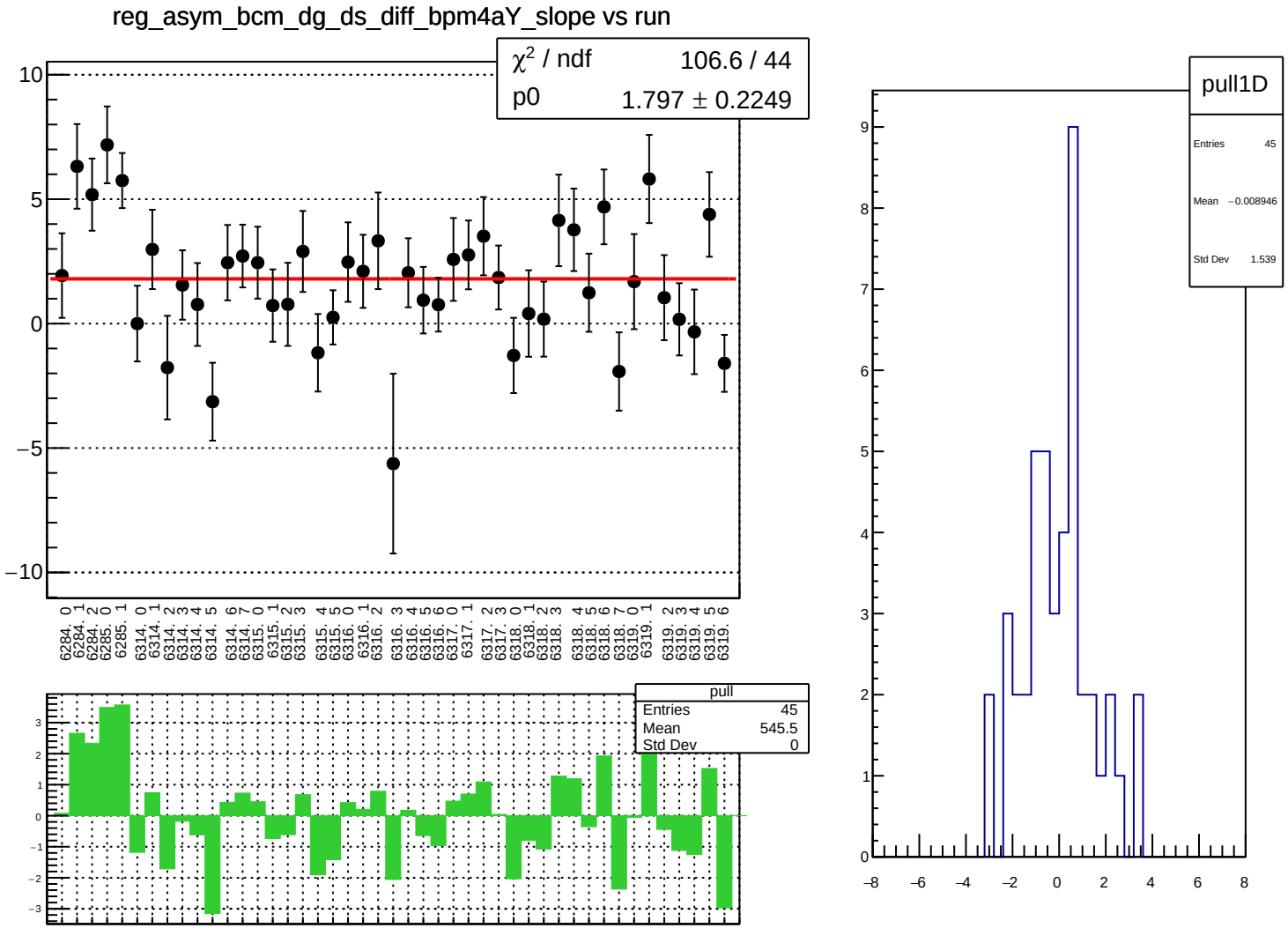

pull1D
Entries 45
Mean −0.01951
Std Dev 1.489

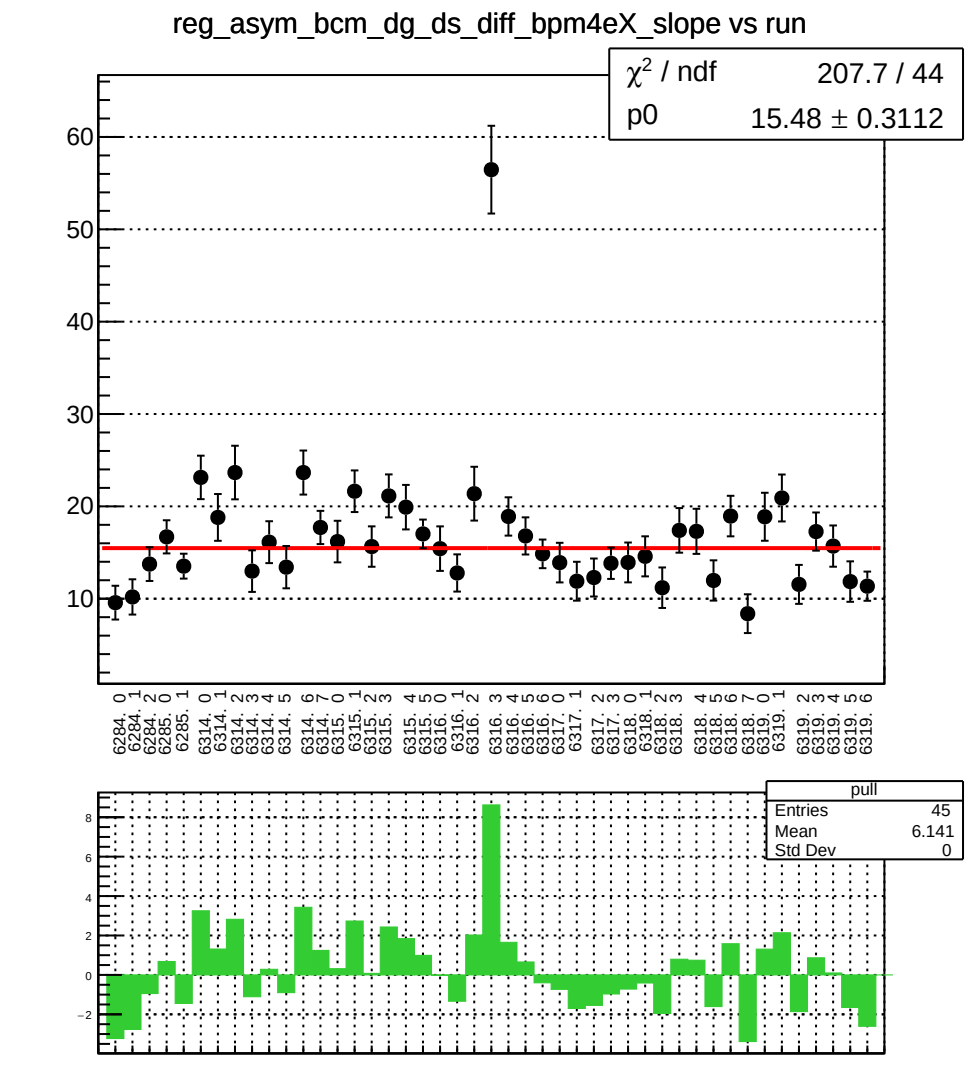

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 334.1 / 44
p0 −0.04354 ± 0.0226
pull
Entries 45
Mean 483.9
Std Dev 0

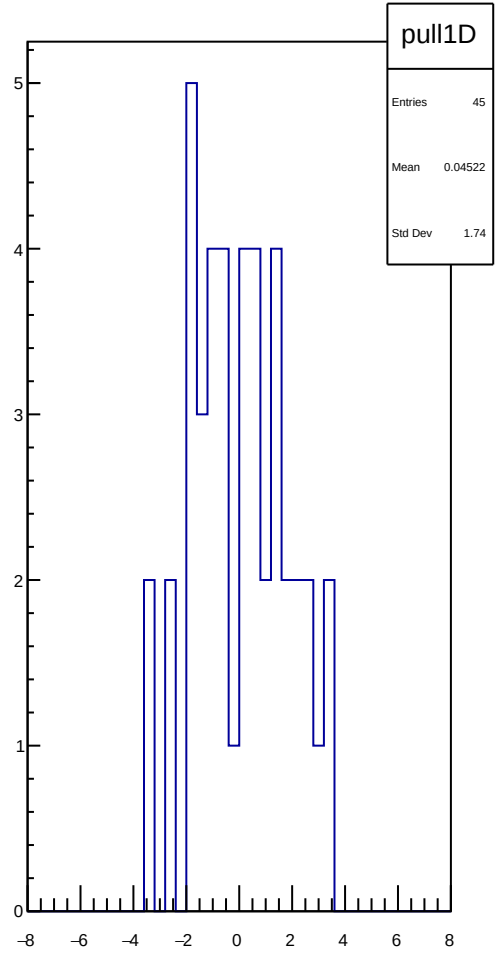

pull1D
Entries 45
Mean 0.2409
Std Dev 2.43

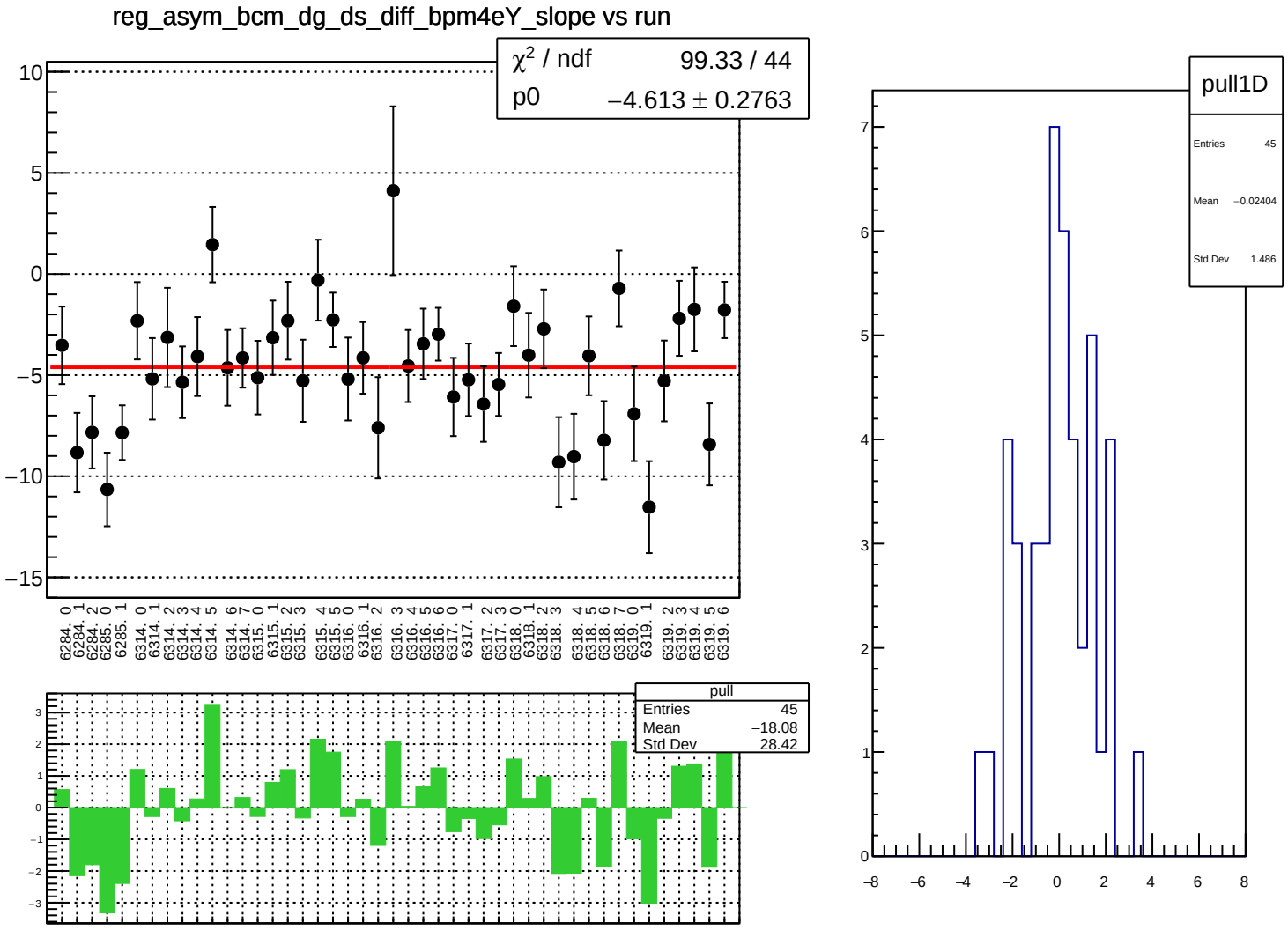

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 199 / 44
p0 −14.28 ± 0.3036
pull
Entries 45
Mean −2.46
Std Dev 0

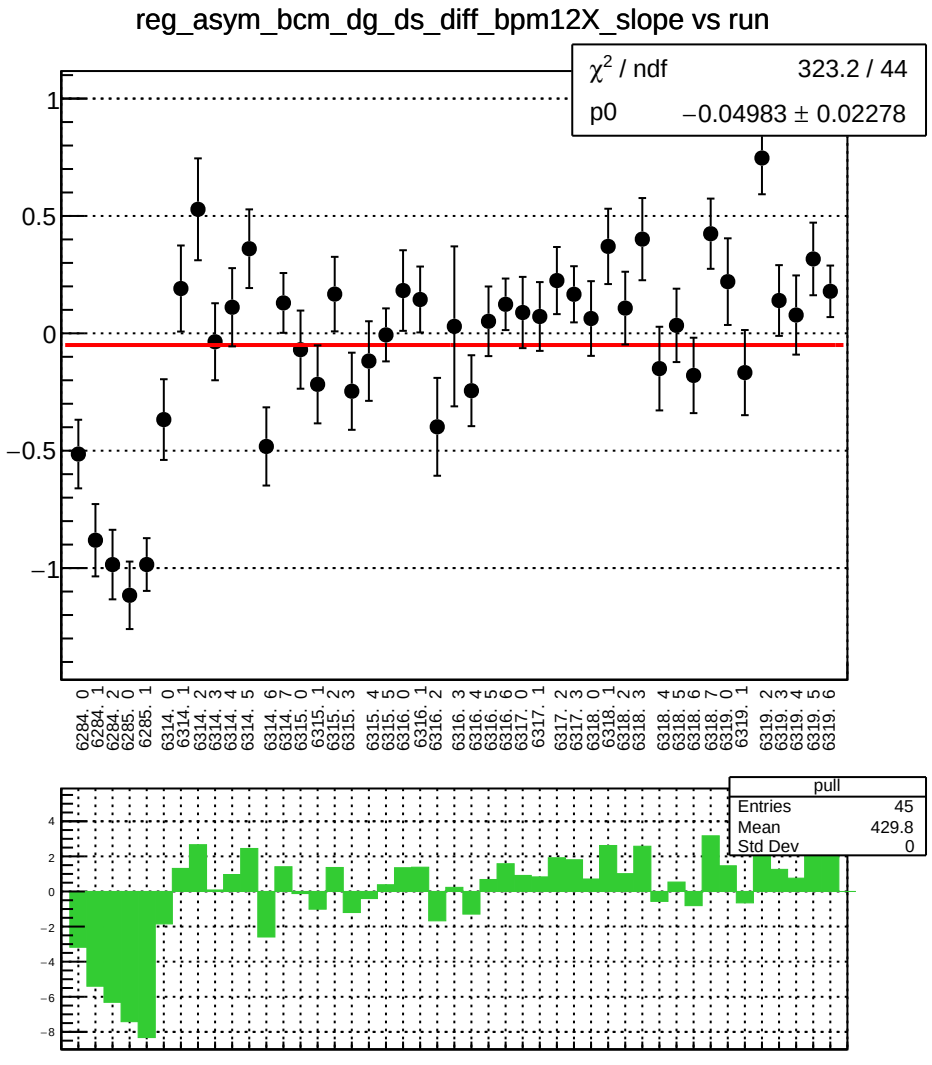

pull1D
Entries 45
Mean −0.02768
Std Dev 1.689

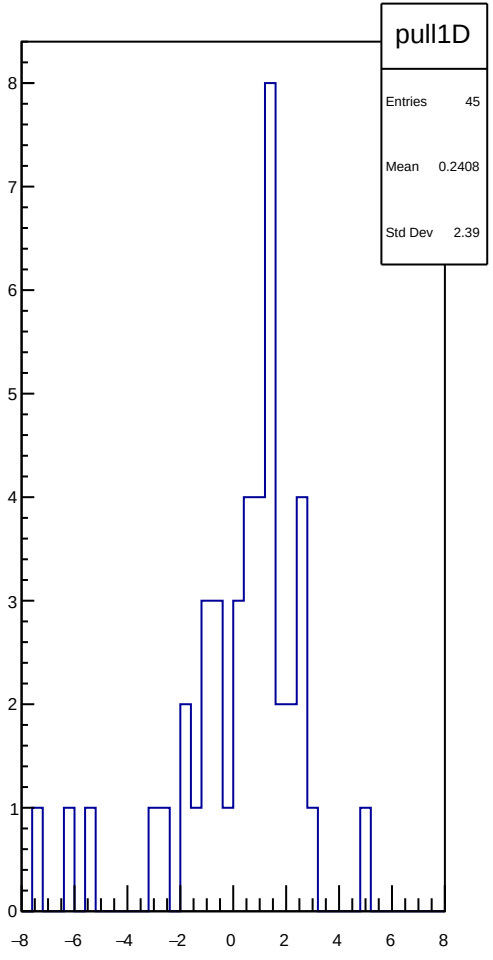

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 106.6 / 44
p0 1.797 ± 0.2249
pull
Entries 45
Mean 545.5
Std Dev 0
pull1D
Entries 45
Mean −0.008946
Std Dev 1.539

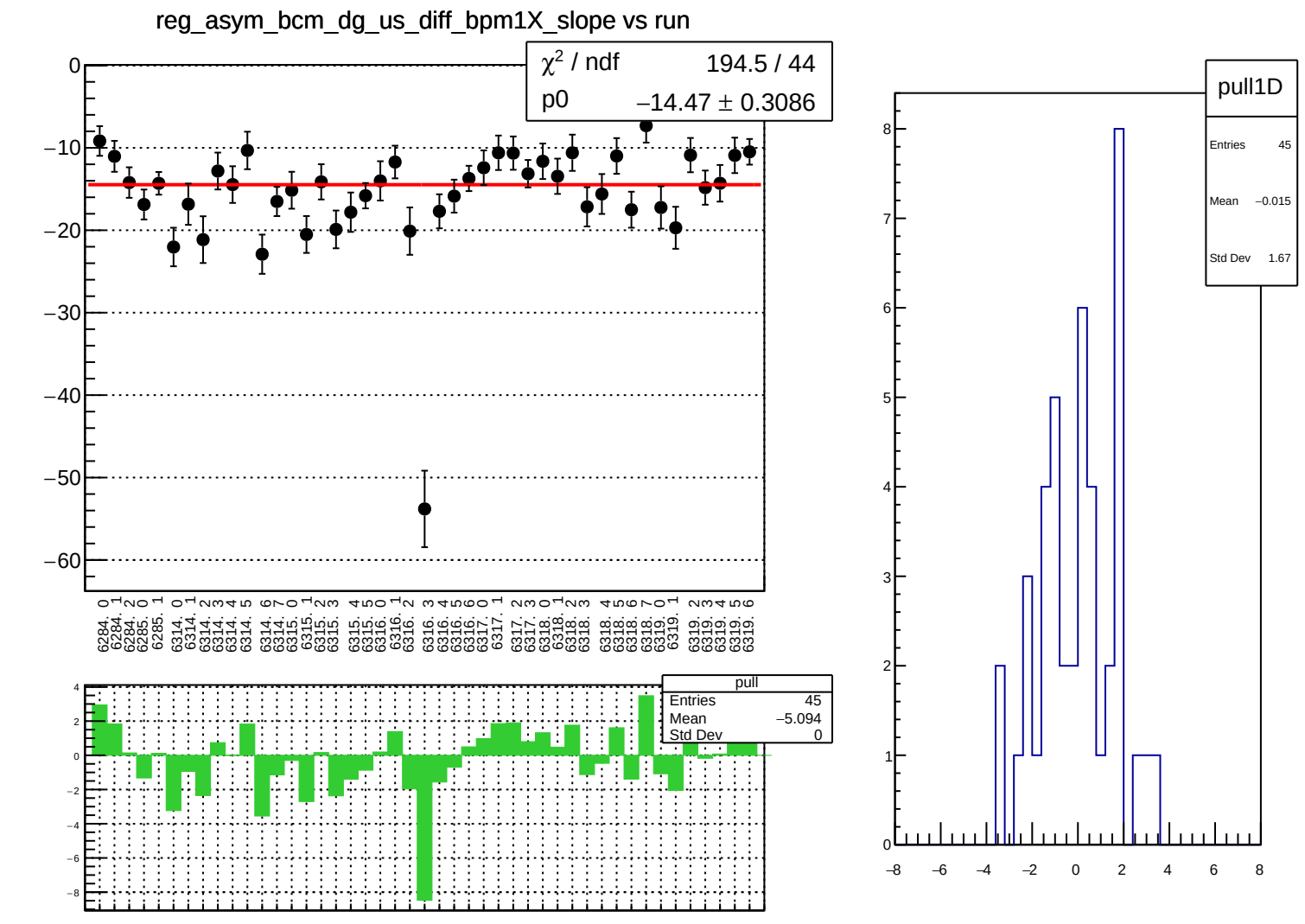

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 207.7 / 44
p0 15.48 ± 0.3112
pull
Entries 45
Mean 6.141
Std Dev 0

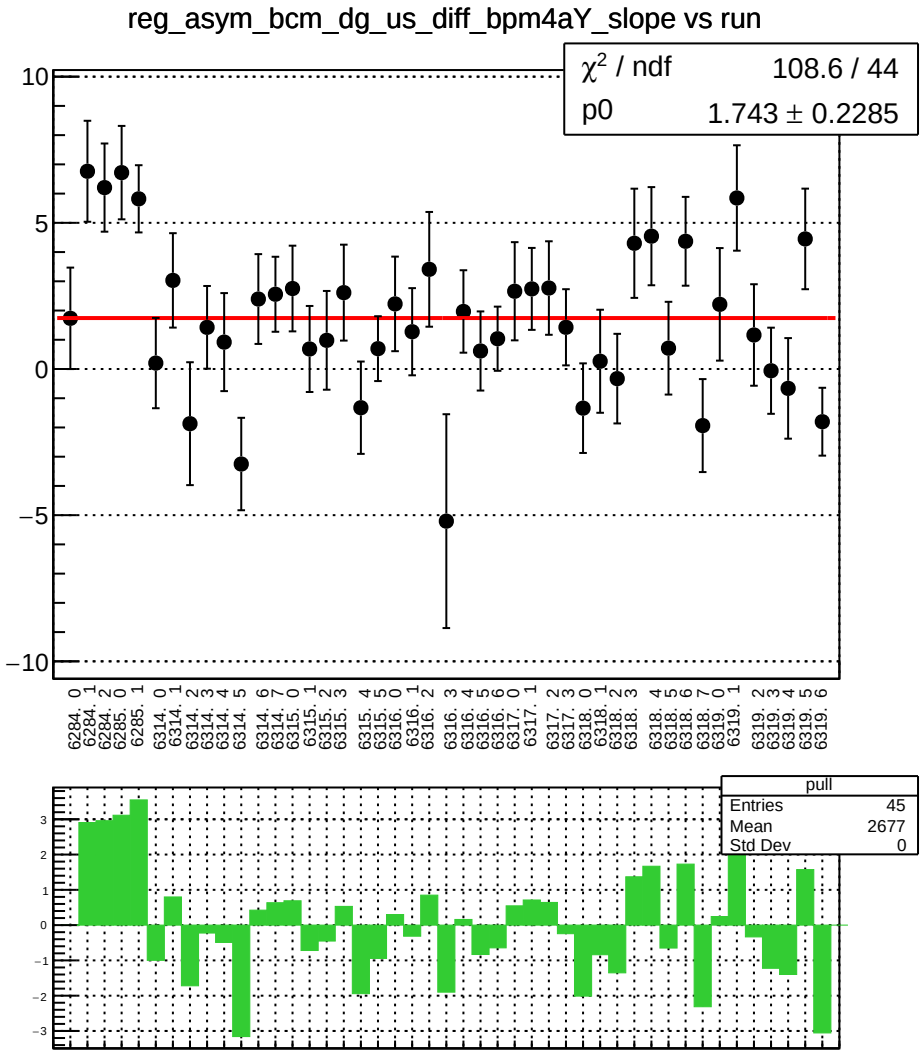

pull1D
Entries 45
Mean 0.04522
Std Dev 1.74

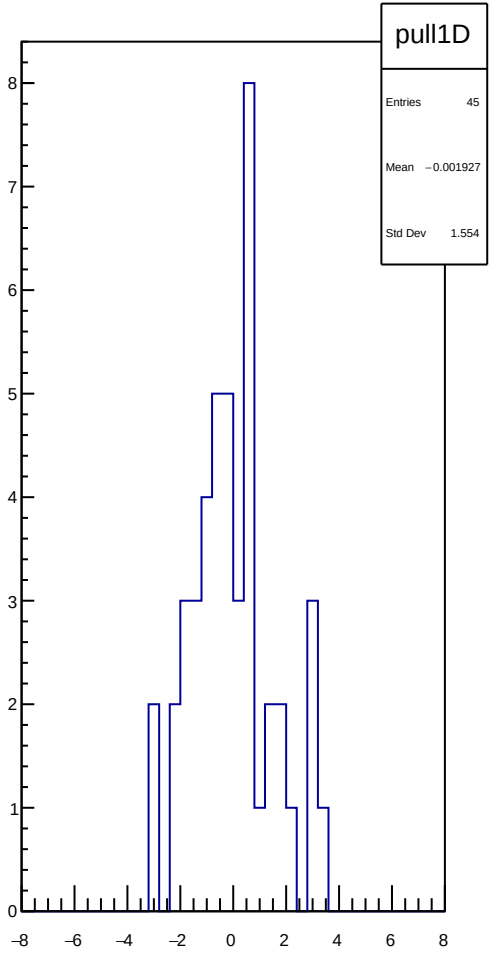

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 99.33 / 44
p0 −4.613 ± 0.2763
pull
Entries 45
Mean −18.08
Std Dev 28.42
pull1D
Entries 45
Mean −0.02404
Std Dev 1.486

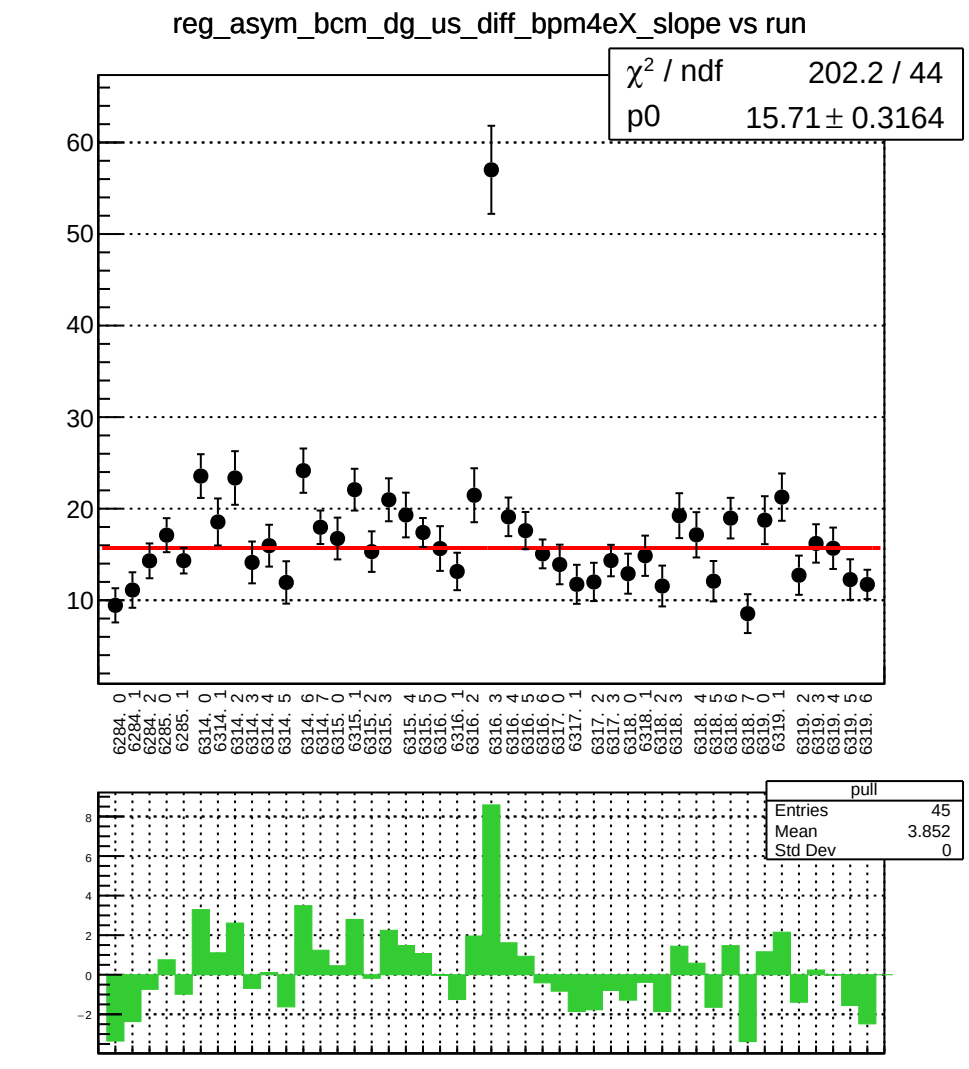

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 323.2 / 44
p0 −0.04983 ± 0.02278
pull
Entries 45
Mean 429.8
Std Dev 0

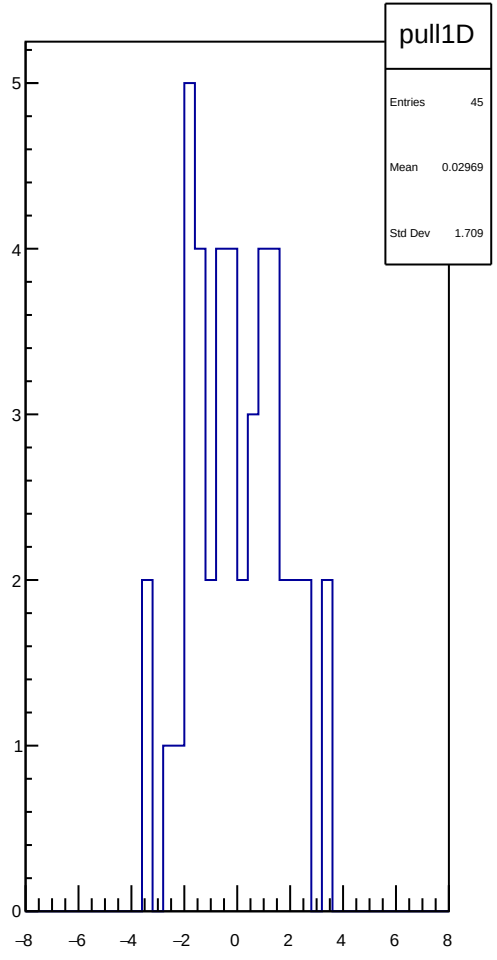

pull1D
Entries 45
Mean 0.2408
Std Dev 2.39

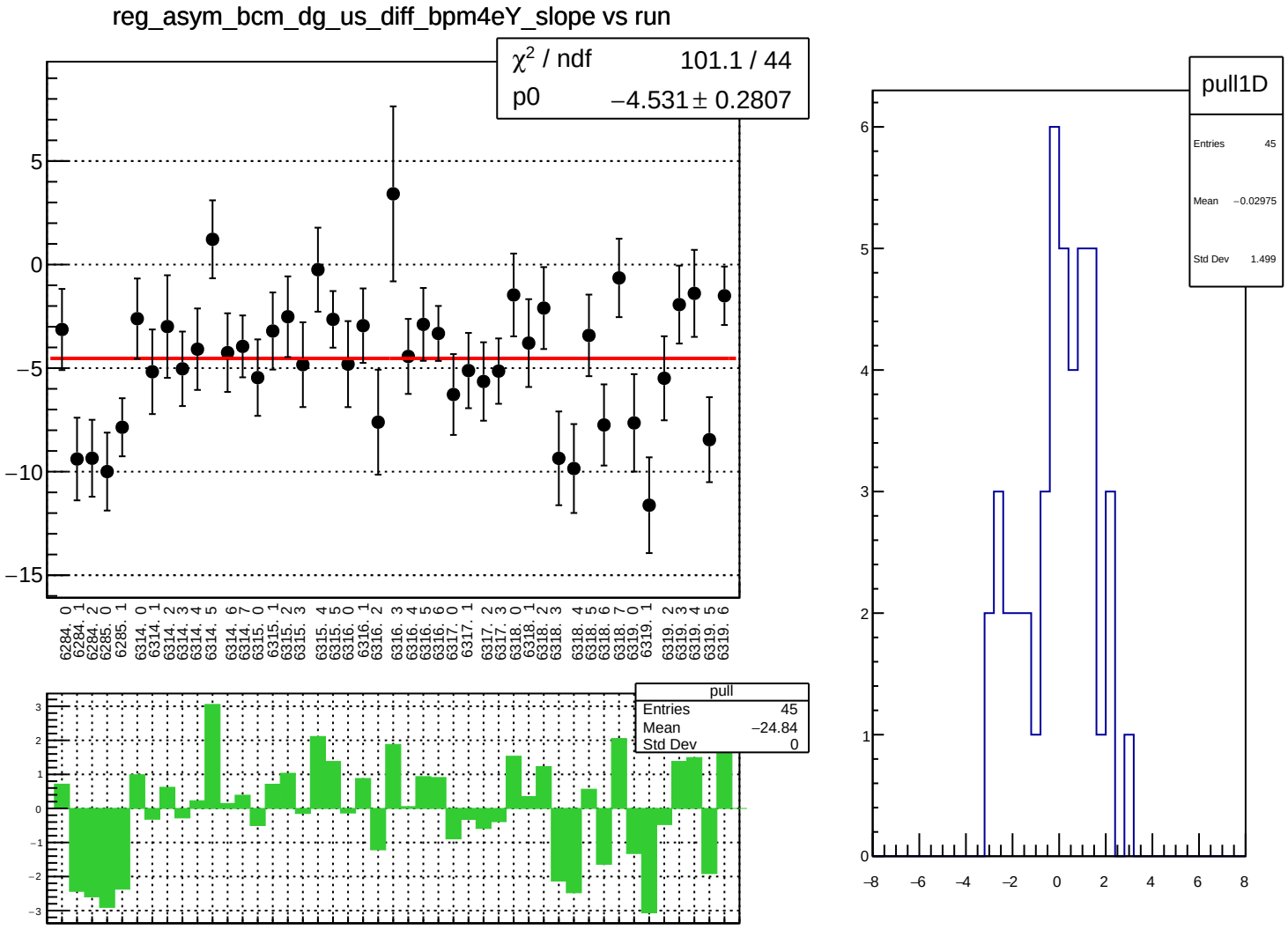

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 194.5 / 44
p0 −14.47 ± 0.3086
pull
Entries 45
Mean −5.094
Std Dev 0
pull1D
Entries 45
Mean −0.015
Std Dev 1.67

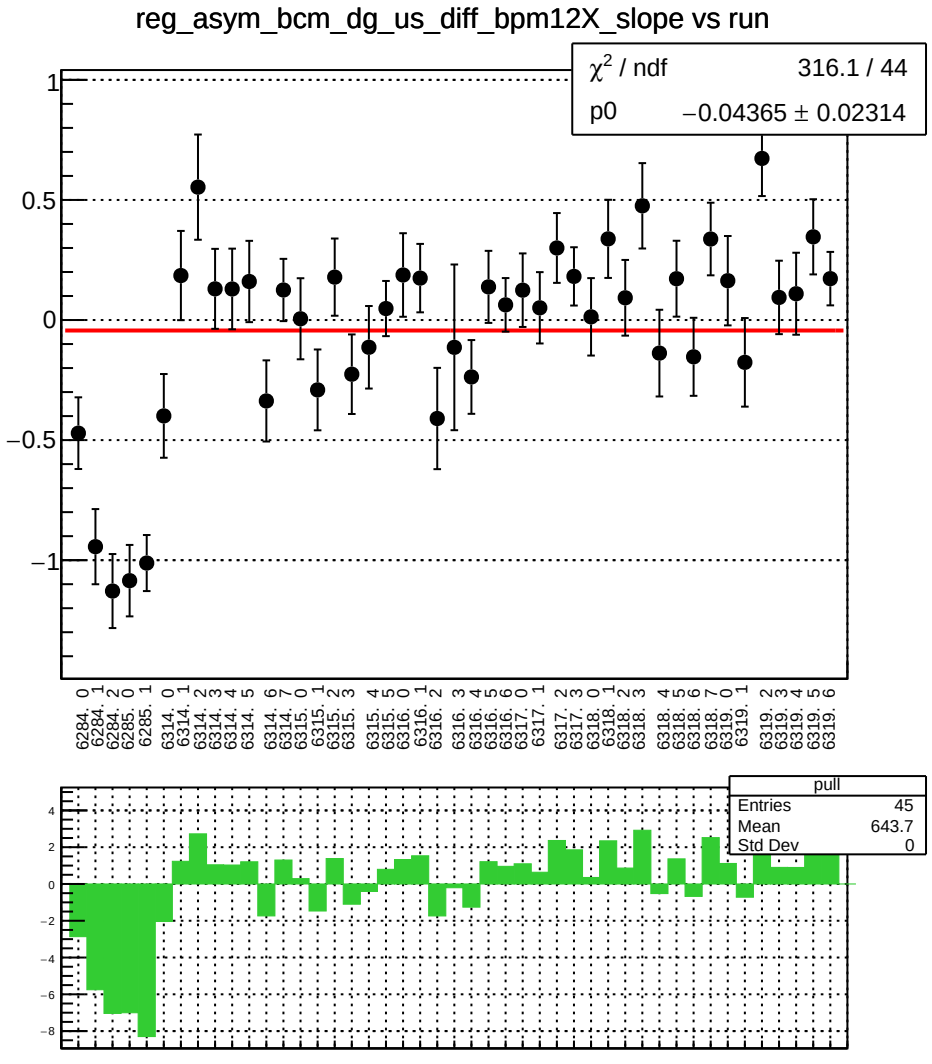

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 108.6 / 44
p0 1.743 ± 0.2285
pull
Entries 45
Mean 2677
Std Dev 0

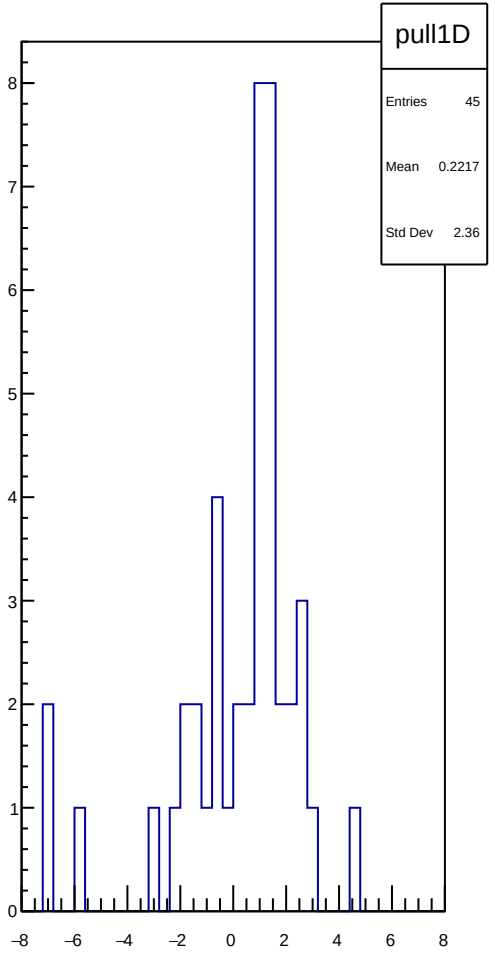

pull1D
Entries 45
Mean −0.001927
Std Dev 1.554

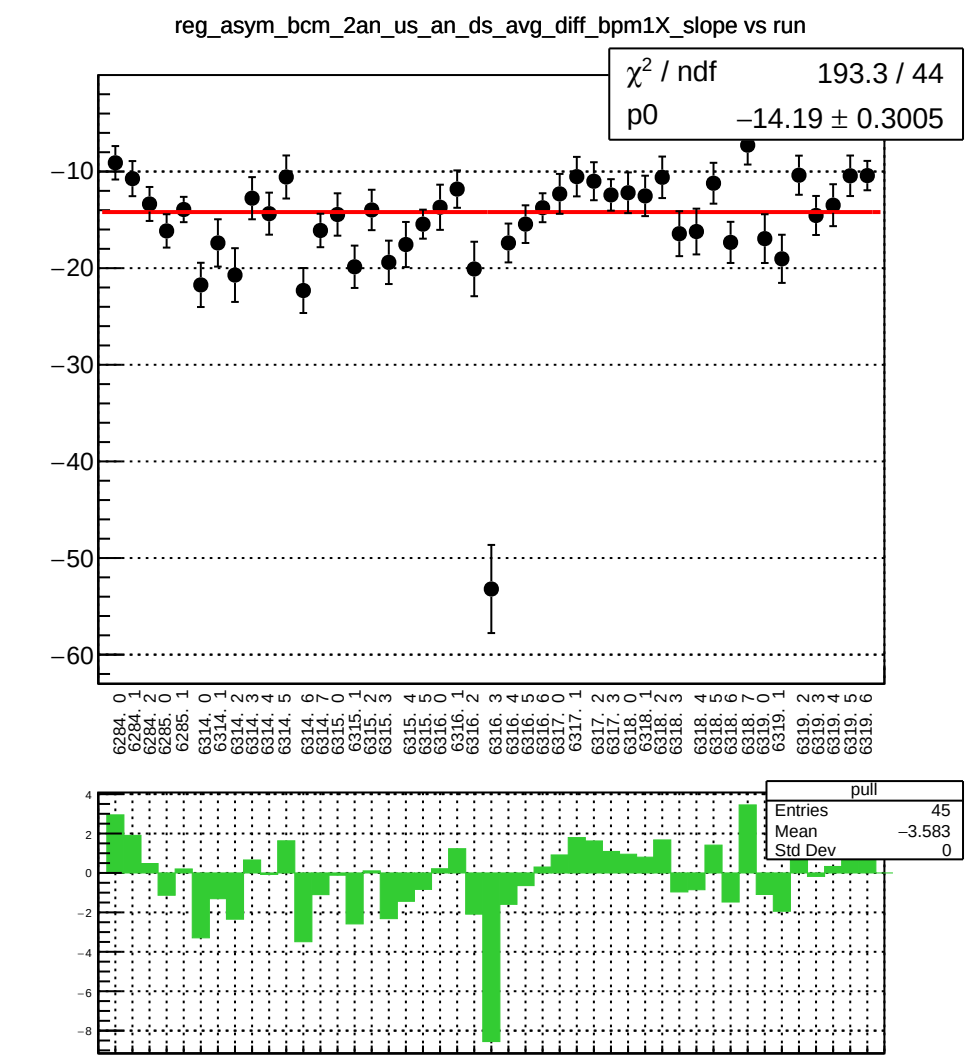

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 202.2 / 44
p0 15.71 ± 0.3164
pull
Entries 45
Mean 3.852
Std Dev 0

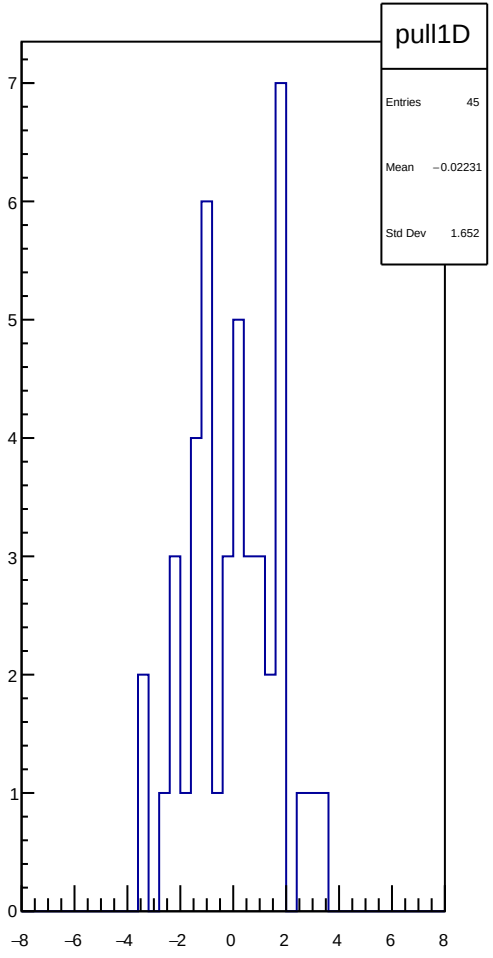

pull1D
Entries 45
Mean 0.02969
Std Dev 1.709

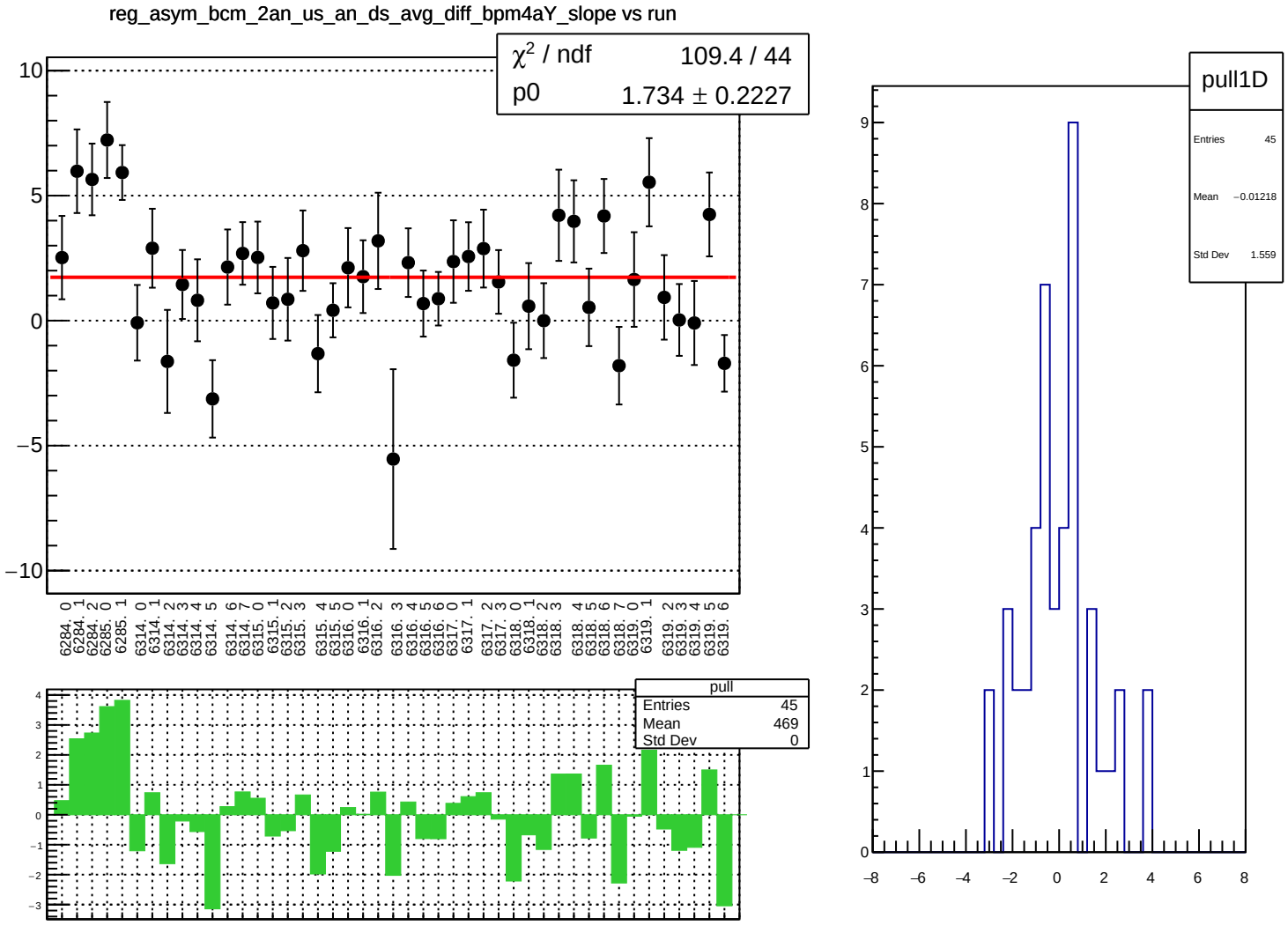

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 101.1 / 44
p0 −4.531 ± 0.2807
pull
Entries 45
Mean −24.84
Std Dev 0
pull1D
Entries 45
Mean −0.02975
Std Dev 1.499

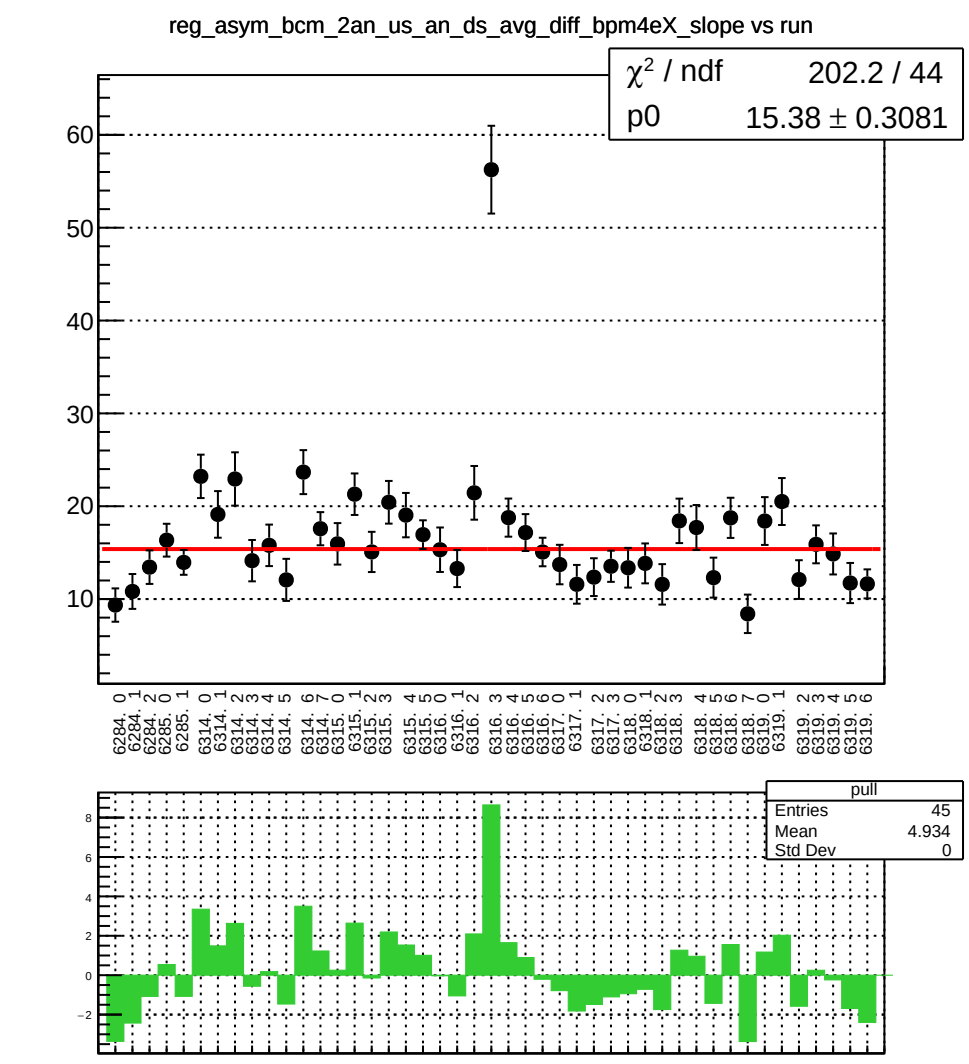

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 316.1 / 44
p0 −0.04365 ± 0.02314
pull
Entries 45
Mean 643.7
Std Dev 0

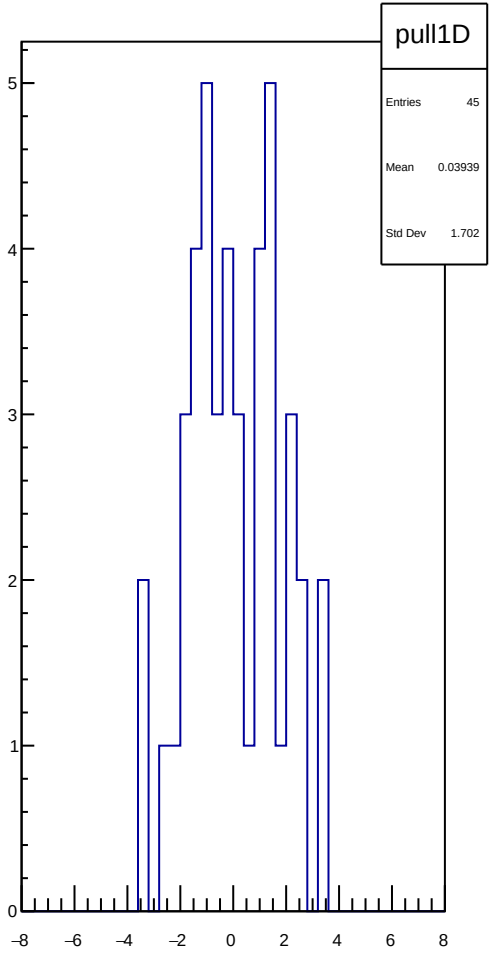

pull1D
Entries 45
Mean 0.2217
Std Dev 2.36

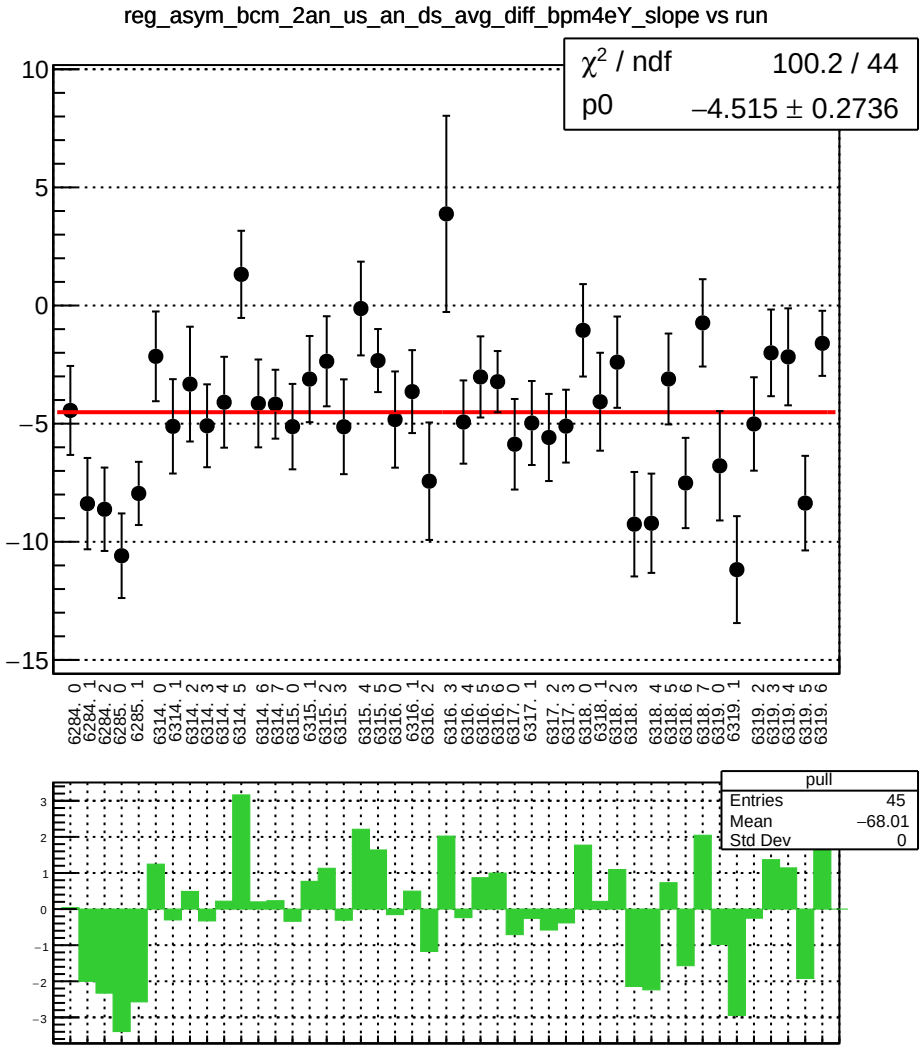

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 193.3 / 44
p0 −14.19 ± 0.3005
pull
Entries 45
Mean −3.583
Std Dev 0

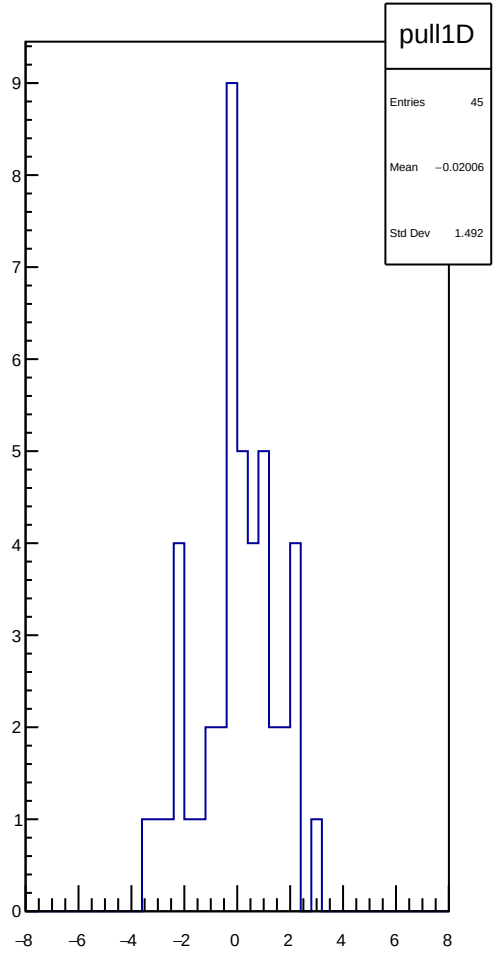

pull1D
Entries 45
Mean −0.02231
Std Dev 1.652

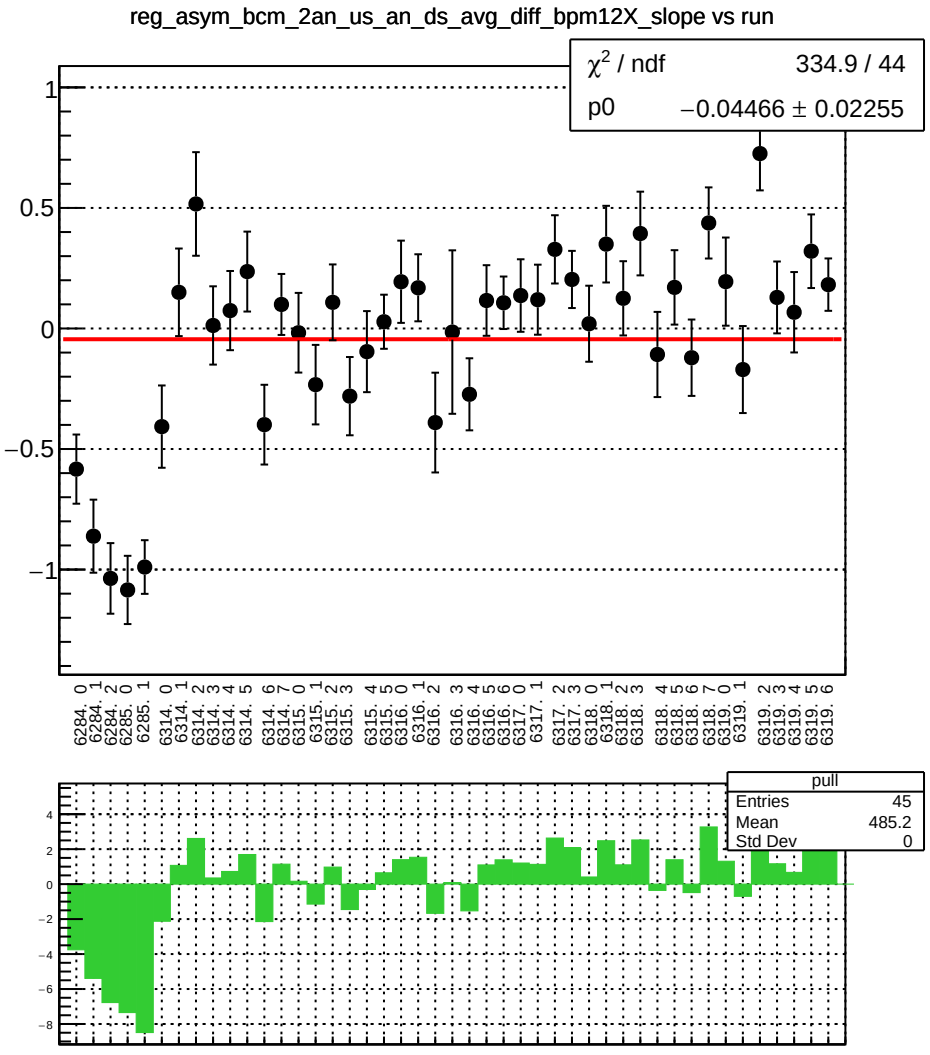

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 109.4 / 44
p0 1.734 ± 0.2227
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 469
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01218
Std Dev 1.559
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

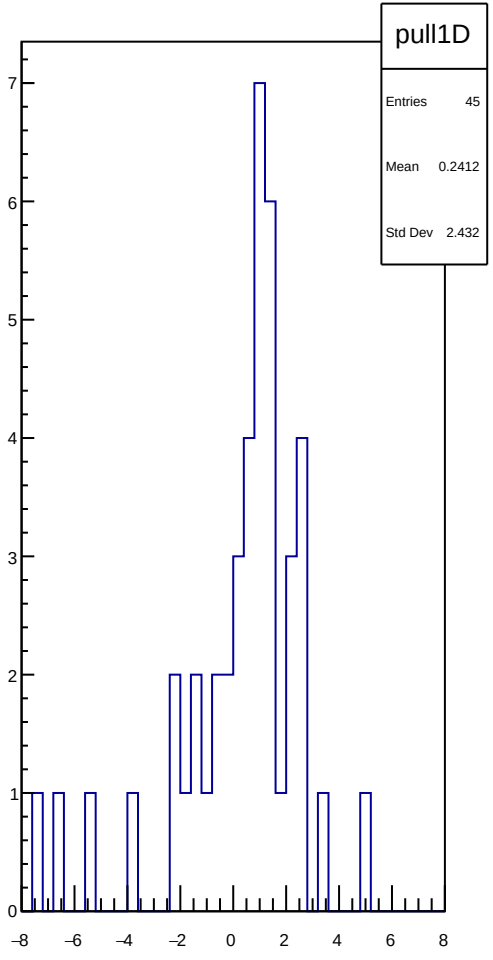

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 202.2 / 44
p0 15.38 ± 0.3081
pull
Entries 45
Mean 4.934
Std Dev 0

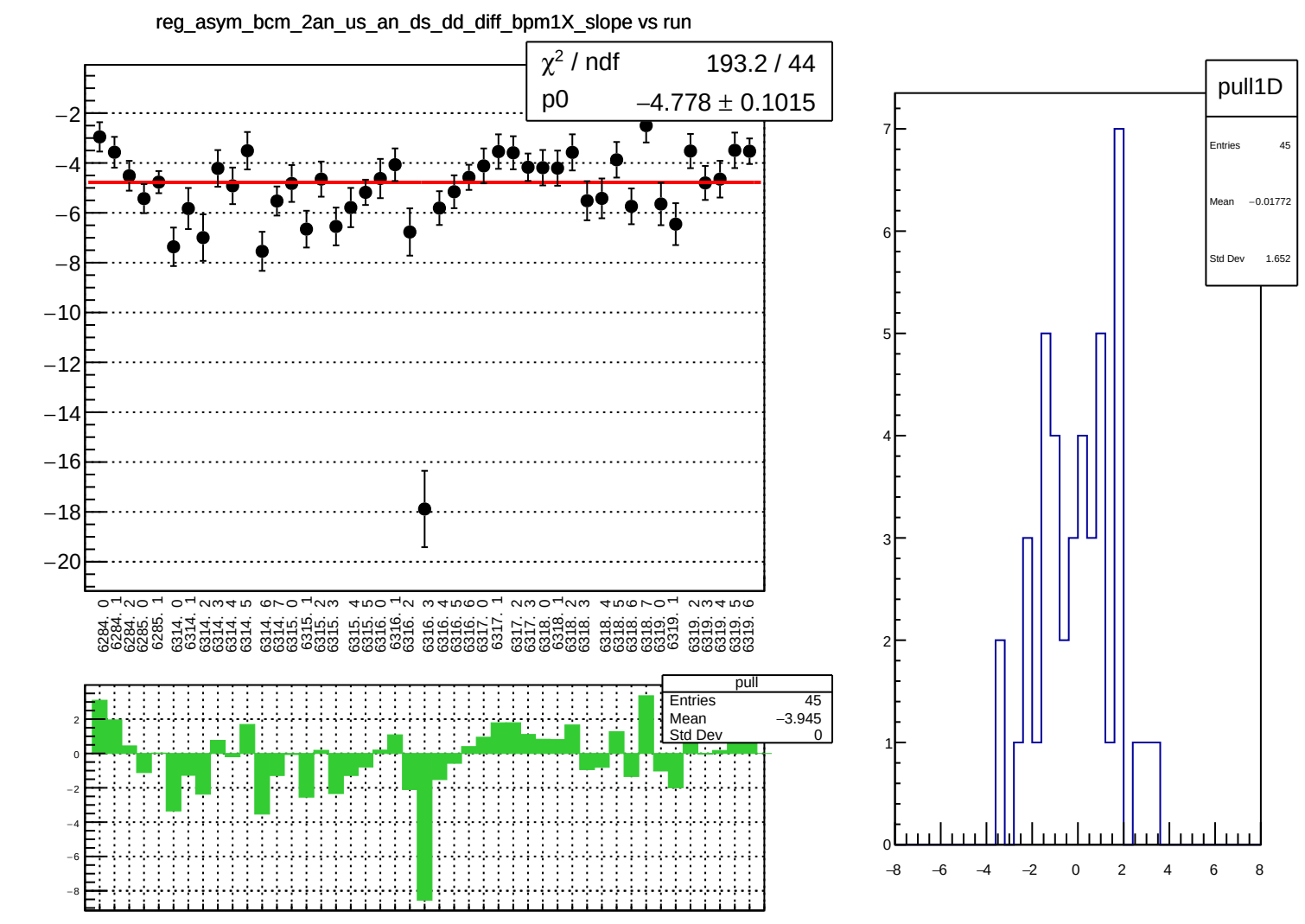

pull1D
Entries 45
Mean 0.03939
Std Dev 1.702

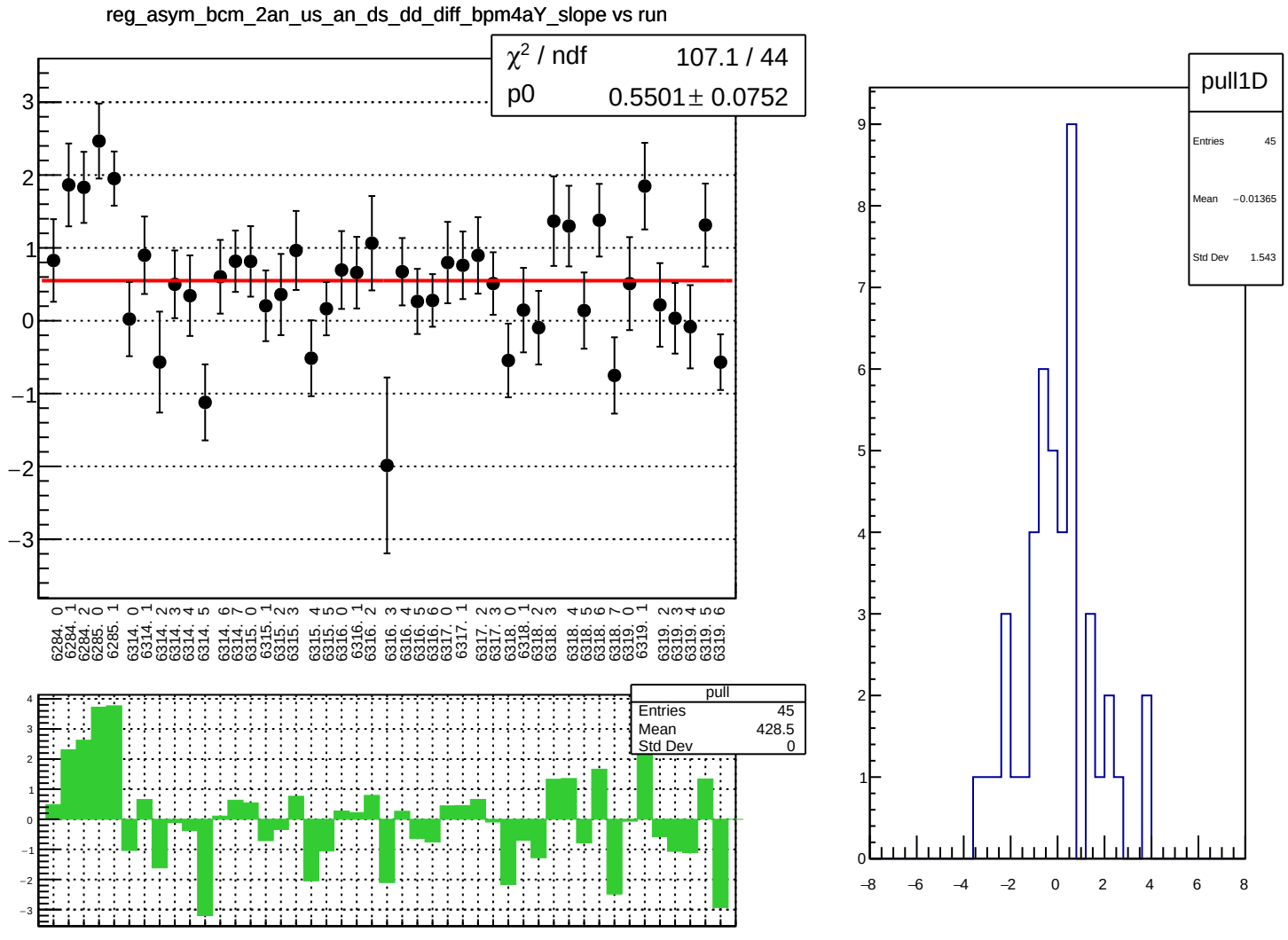

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.2 / 44
p0 −4.515 ± 0.2736
pull
Entries 45
Mean −68.01
Std Dev 0

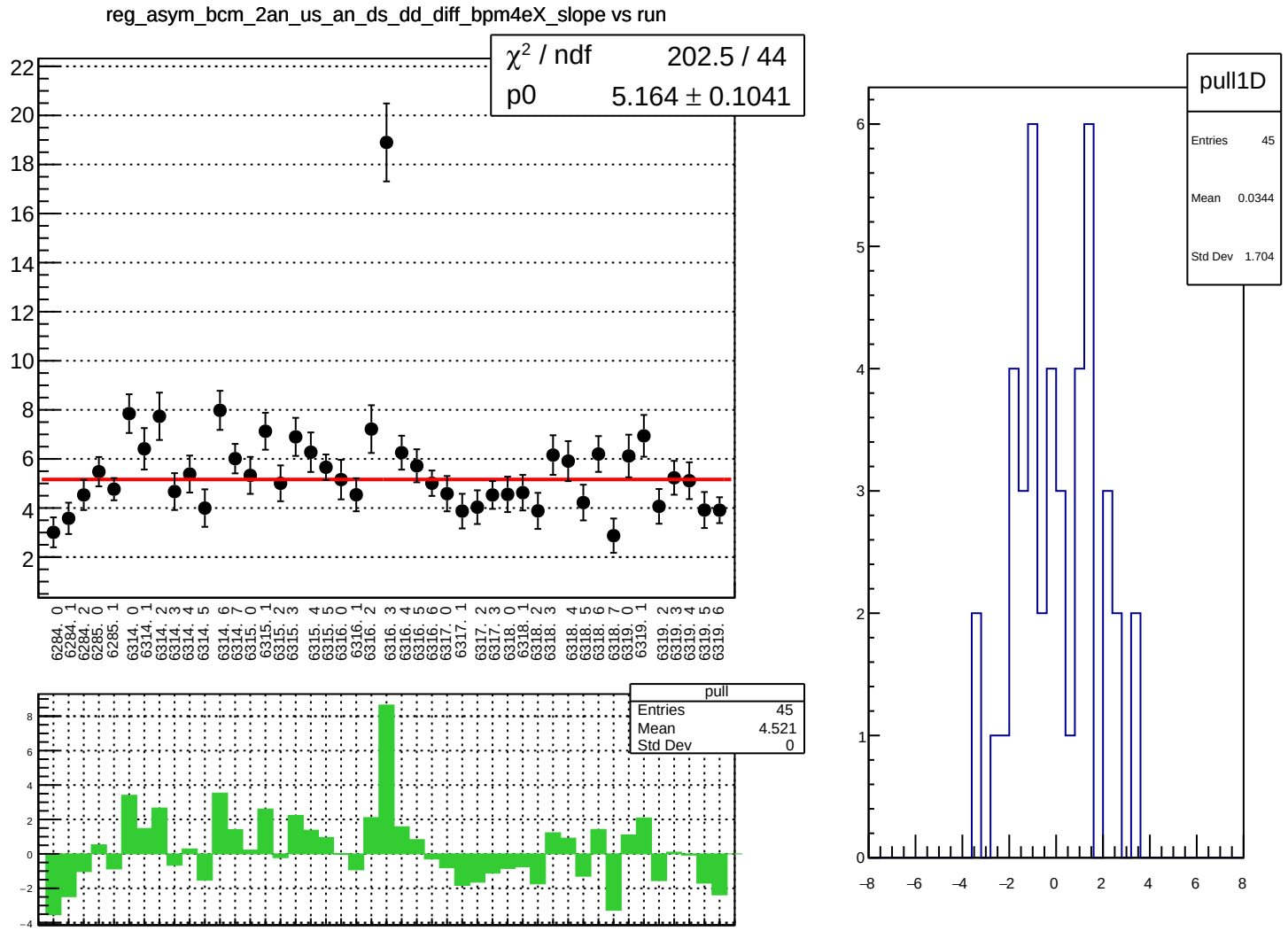

pull1D
Entries 45
Mean −0.02006
Std Dev 1.492

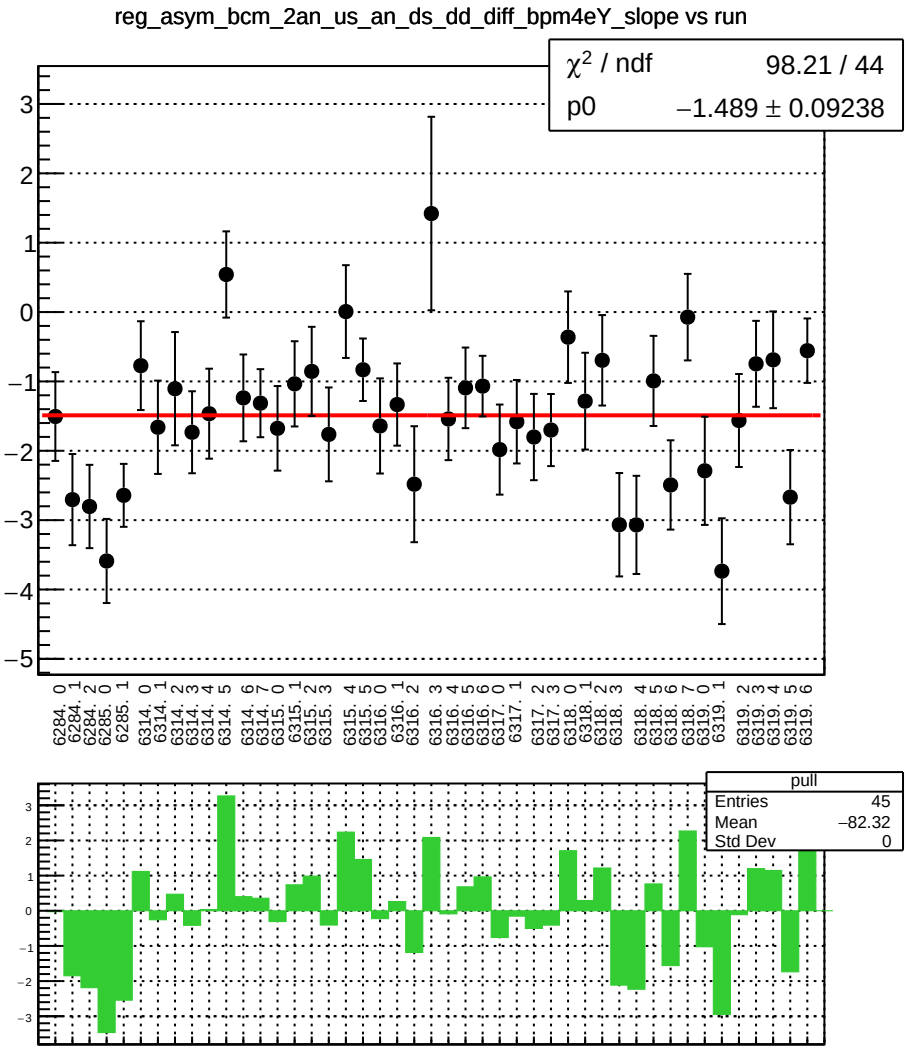

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 334.9 / 44
p0 −0.04466 ± 0.02255
pull
Entries 45
Mean 485.2
Std Dev 0

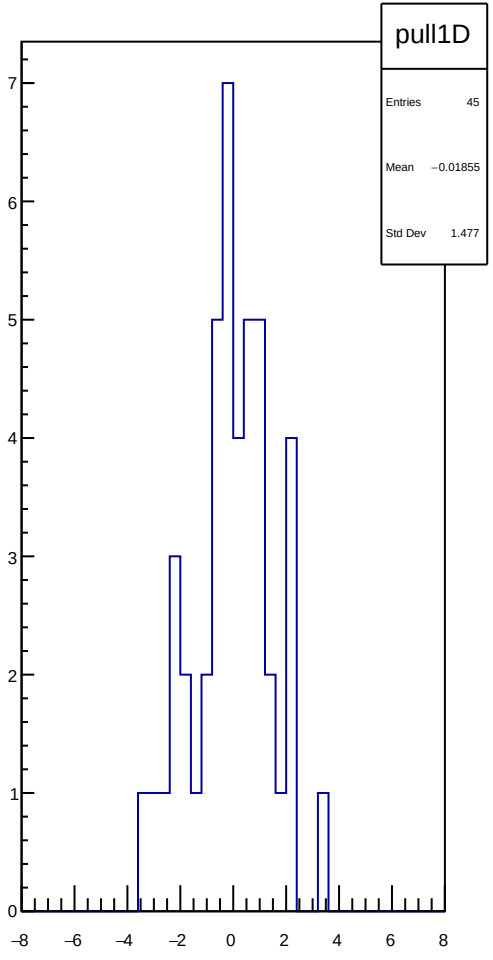

pull1D
Entries 45
Mean 0.2412
Std Dev 2.432

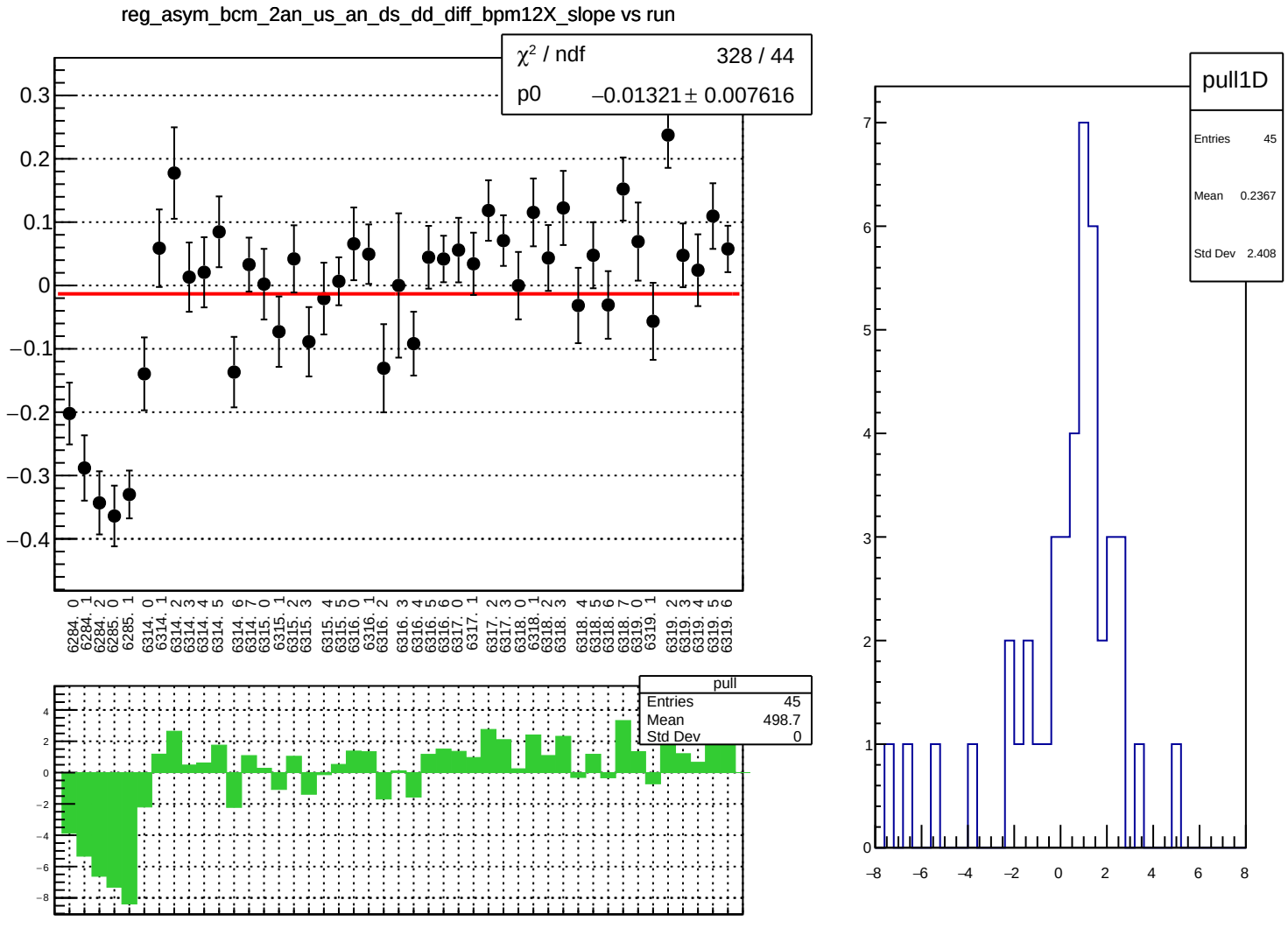

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 193.2 / 44
p0 −4.778 ± 0.1015
pull
Entries 45
Mean −3.945
Std Dev 0
pull1D
Entries 45
Mean −0.01772
Std Dev 1.652

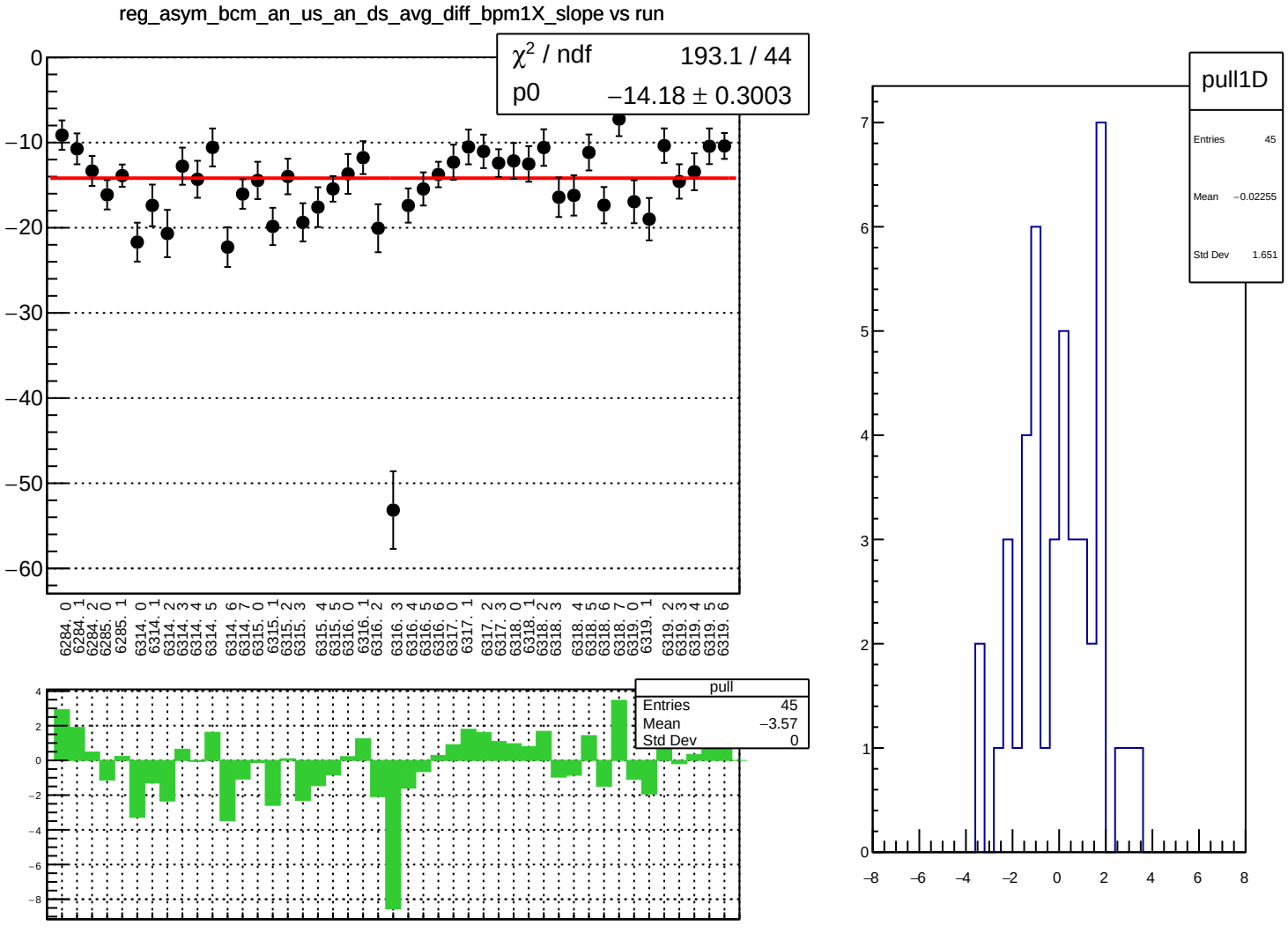

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.1 / 44
p0 0.5501 ± 0.0752
pull
Entries 45
Mean 428.5
Std Dev 0
pull1D
Entries 45
Mean −0.01365
Std Dev 1.543

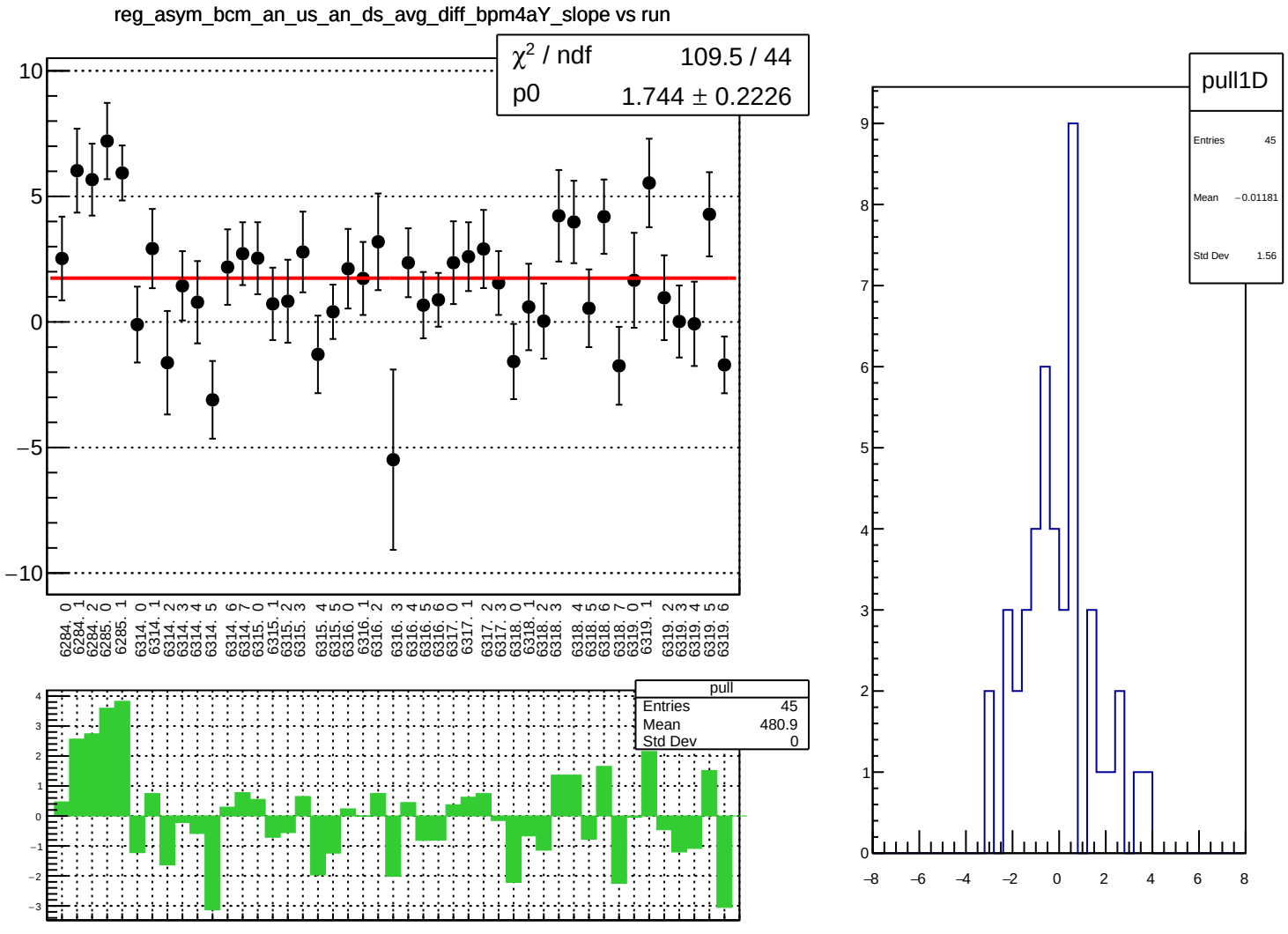

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 202.5 / 44
p0 5.164 ± 0.1041
pull
Entries 45
Mean 4.521
Std Dev 0
pull1D
Entries 45
Mean 0.0344
Std Dev 1.704

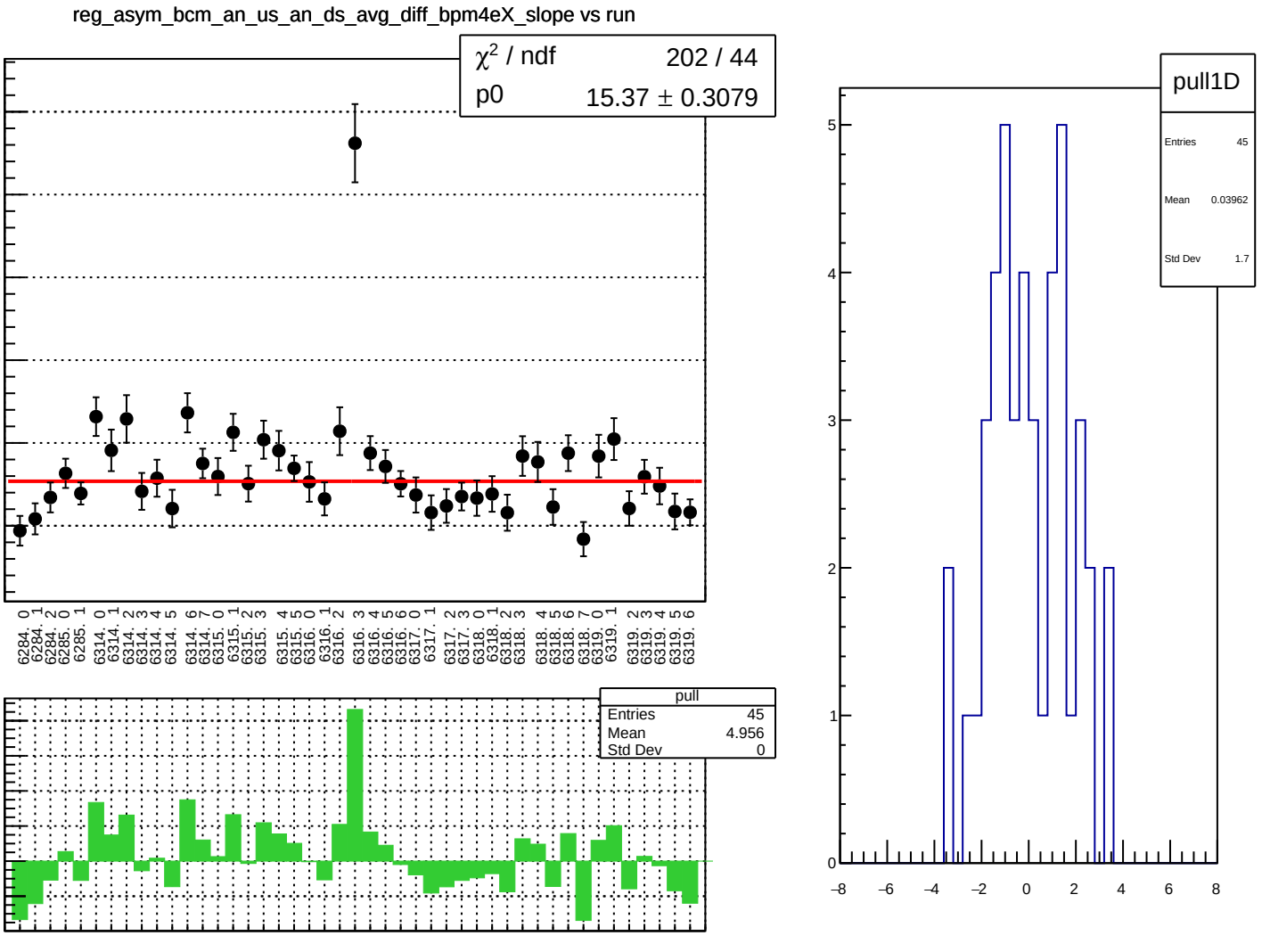

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.21 / 44
p0 −1.489 ± 0.09238
pull
Entries 45
Mean −82.32
Std Dev 0

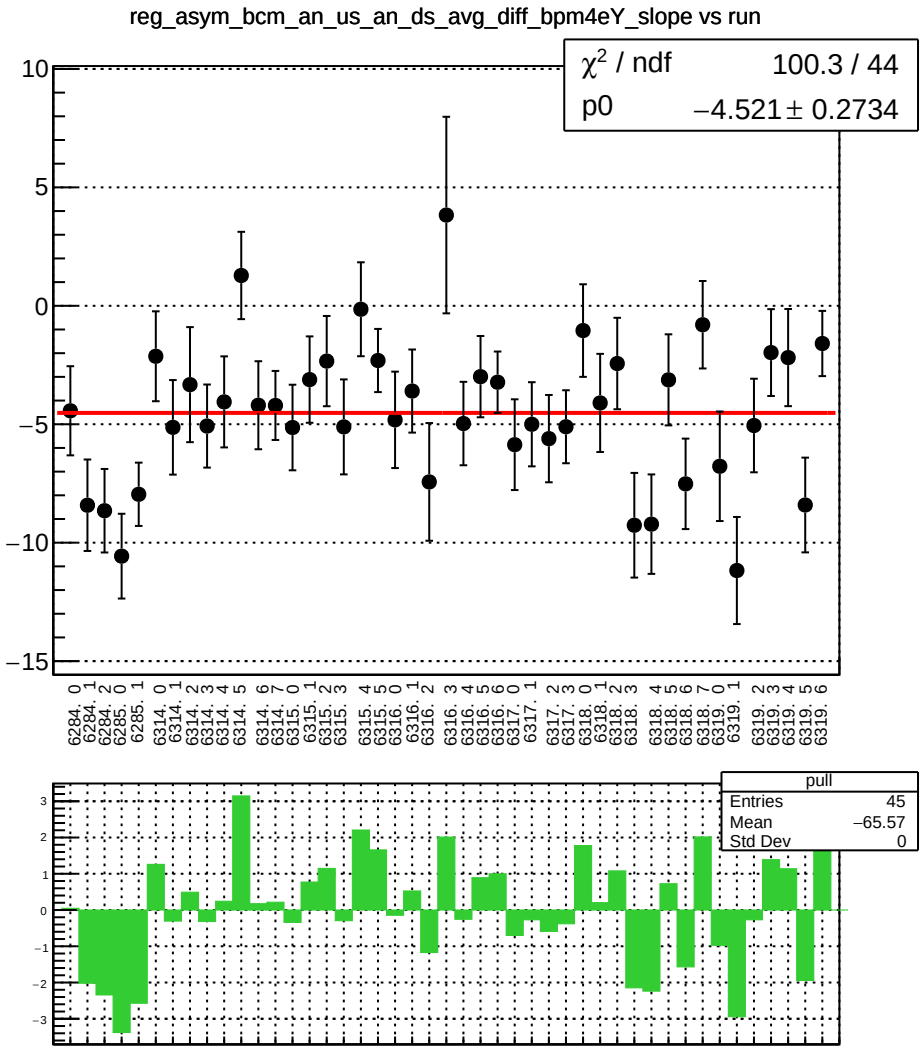

pull1D
Entries 45
Mean −0.01855
Std Dev 1.477

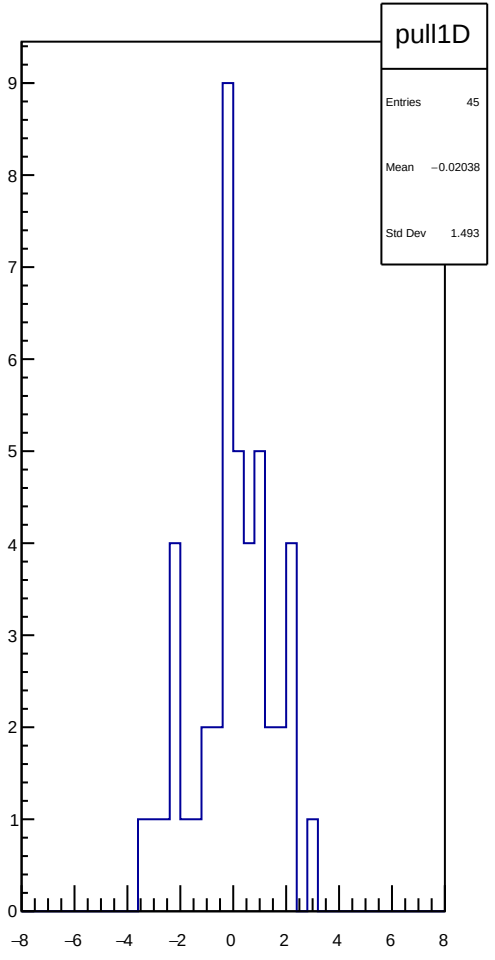

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 328 / 44
p0 −0.01321 ± 0.007616
pull
Entries 45
Mean 498.7
Std Dev 0
pull1D
Entries 45
Mean 0.2367
Std Dev 2.408

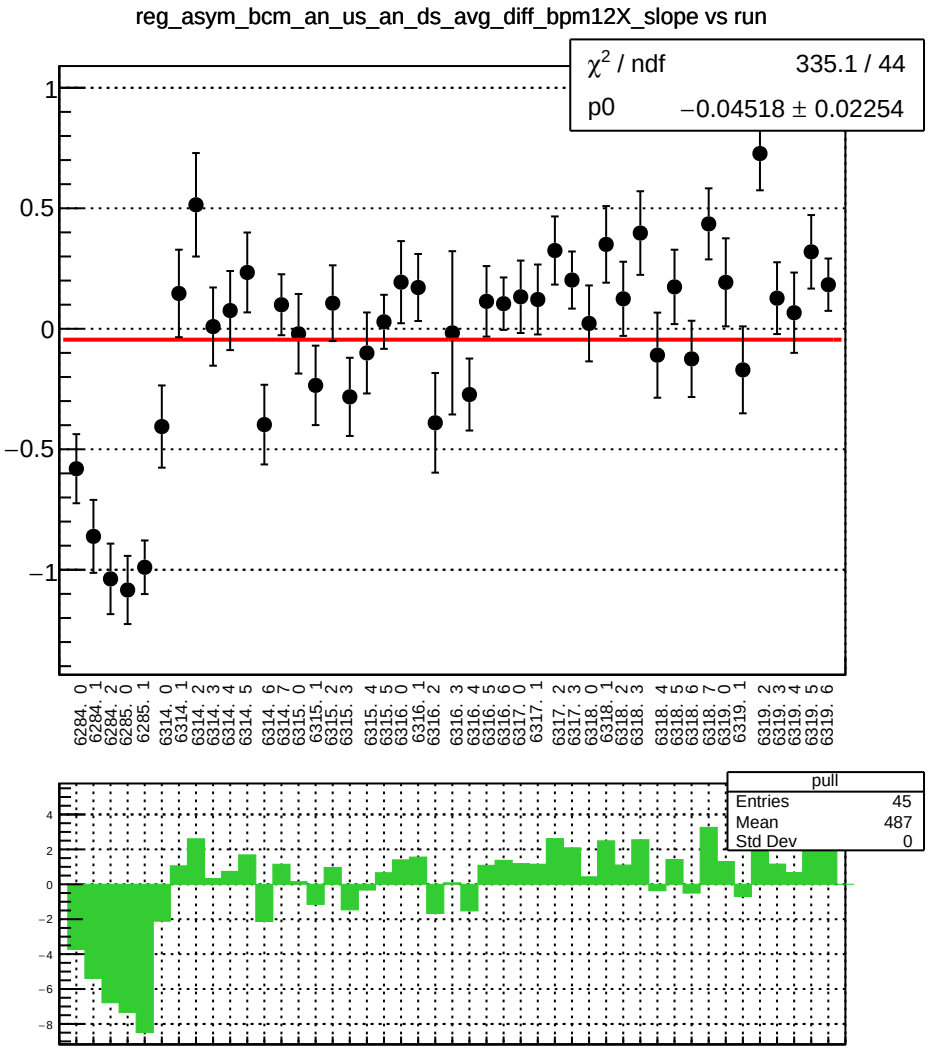

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 193.1 / 44
p0 −14.18 ± 0.3003
pull
Entries 45
Mean −3.57
Std Dev 0
pull1D
Entries 45
Mean −0.02255
Std Dev 1.651

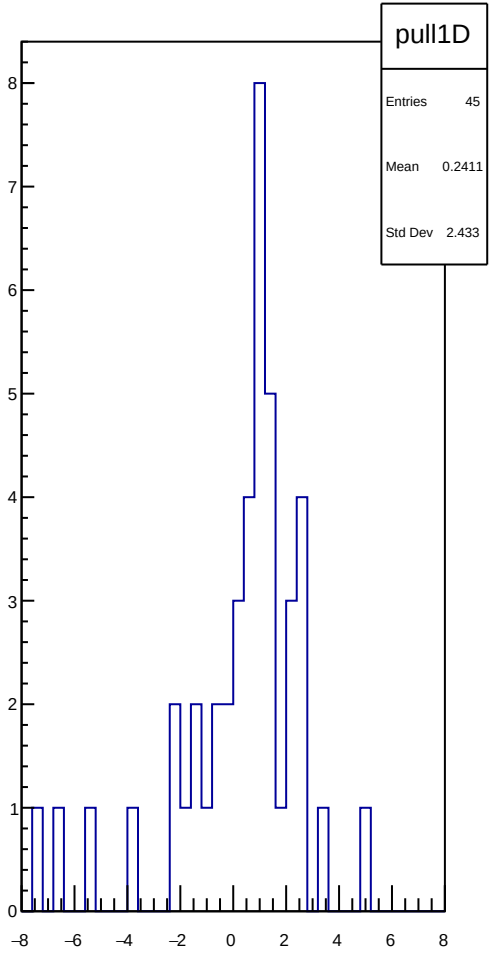

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 109.5 / 44
p0 1.744 ± 0.2226
10
5
0
−5
−10
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 480.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01181
Std Dev 1.56
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

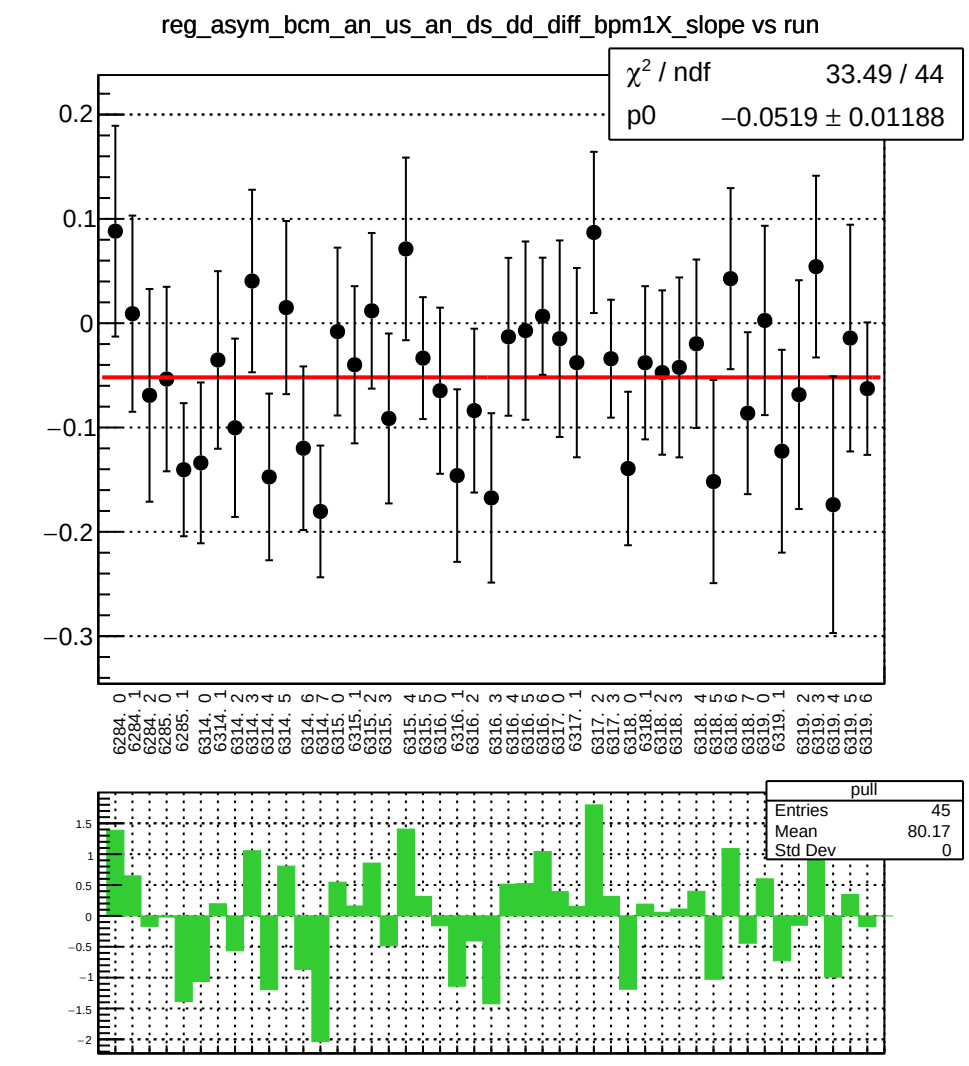

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 202 / 44
p0 15.37 ± 0.3079
pull
Entries 45
Mean 4.956
Std Dev 0
pull1D
Entries 45
Mean 0.03962
Std Dev 1.7

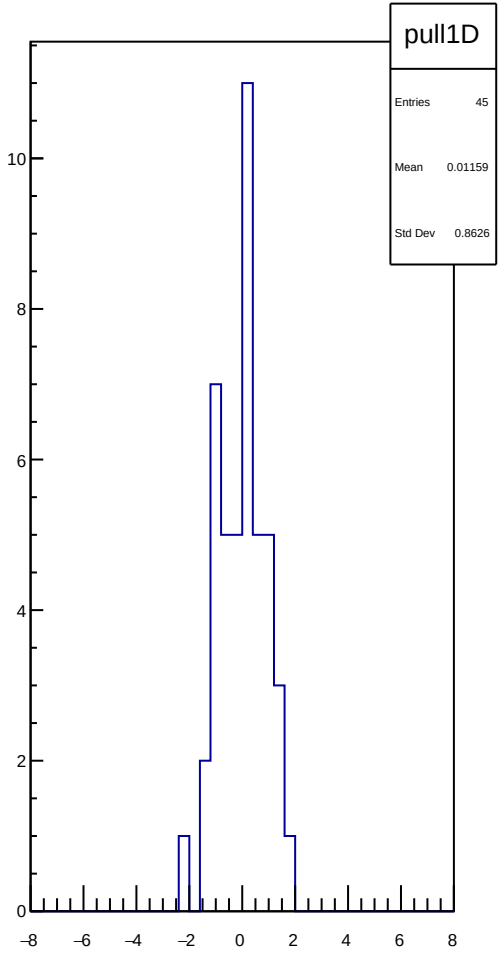

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 44
p0 −4.521 ± 0.2734
pull
Entries 45
Mean −65.57
Std Dev 0

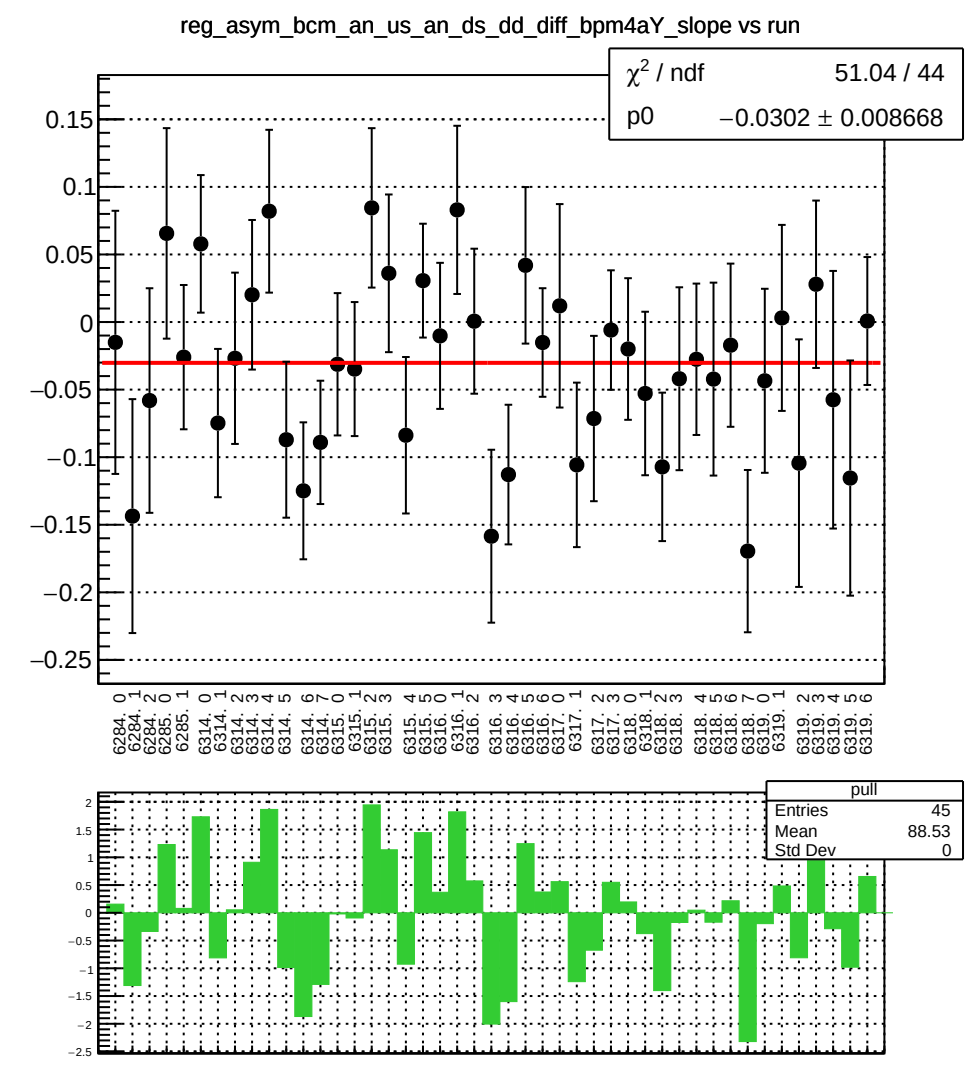

pull1D
Entries 45
Mean −0.02038
Std Dev 1.493

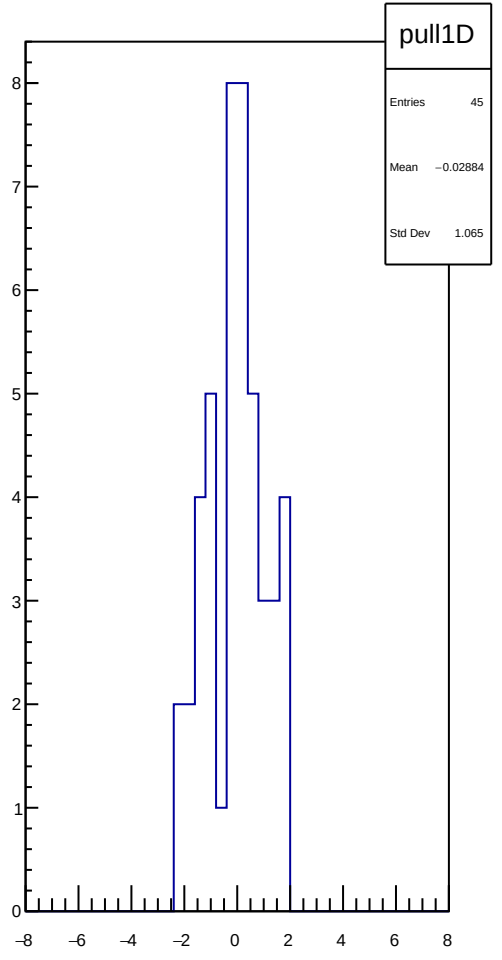

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 335.1 / 44
p0 −0.04518 ± 0.02254
pull
Entries 45
Mean 487
Std Dev 0

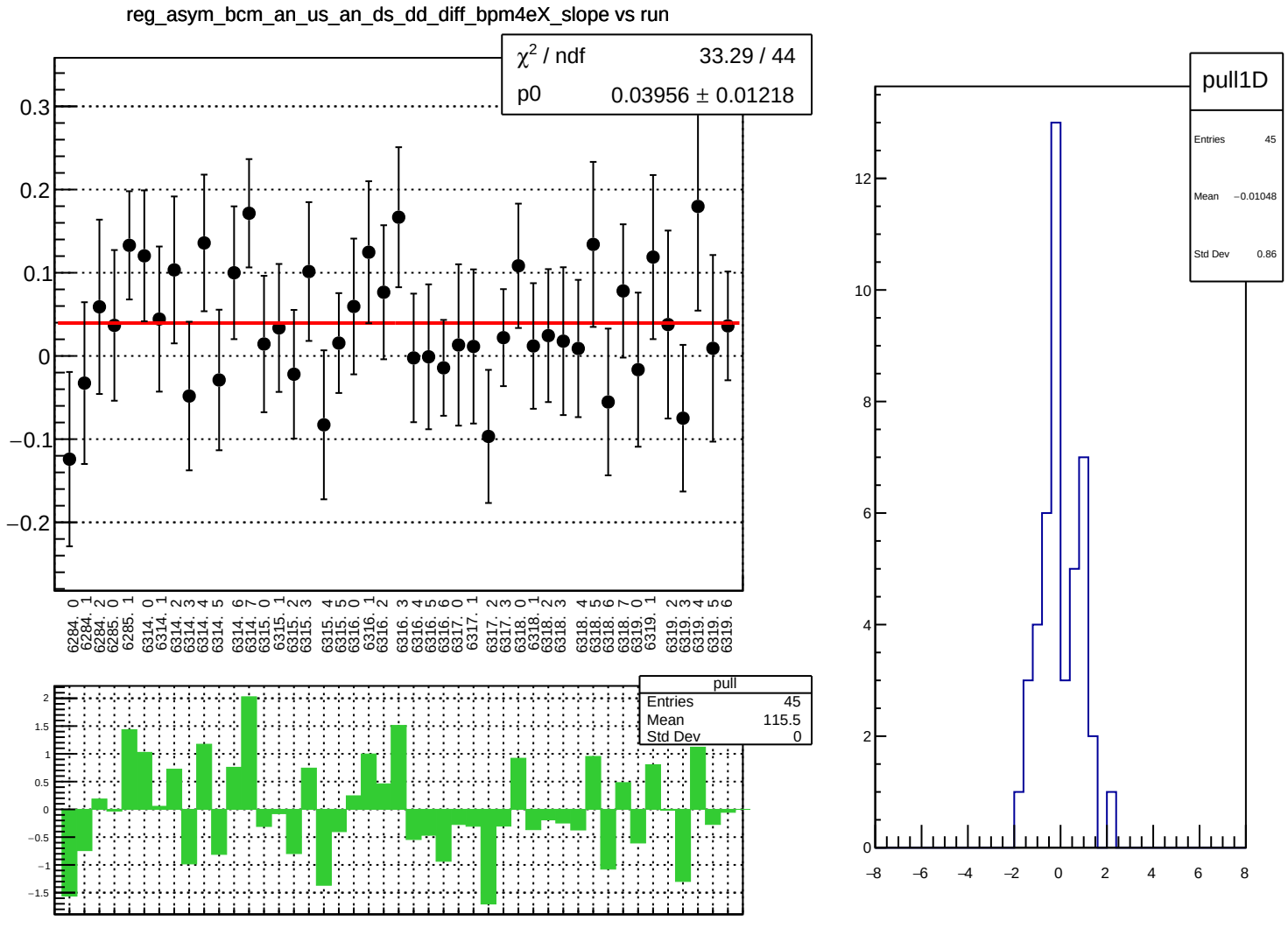

pull1D
Entries 45
Mean 0.2411
Std Dev 2.433

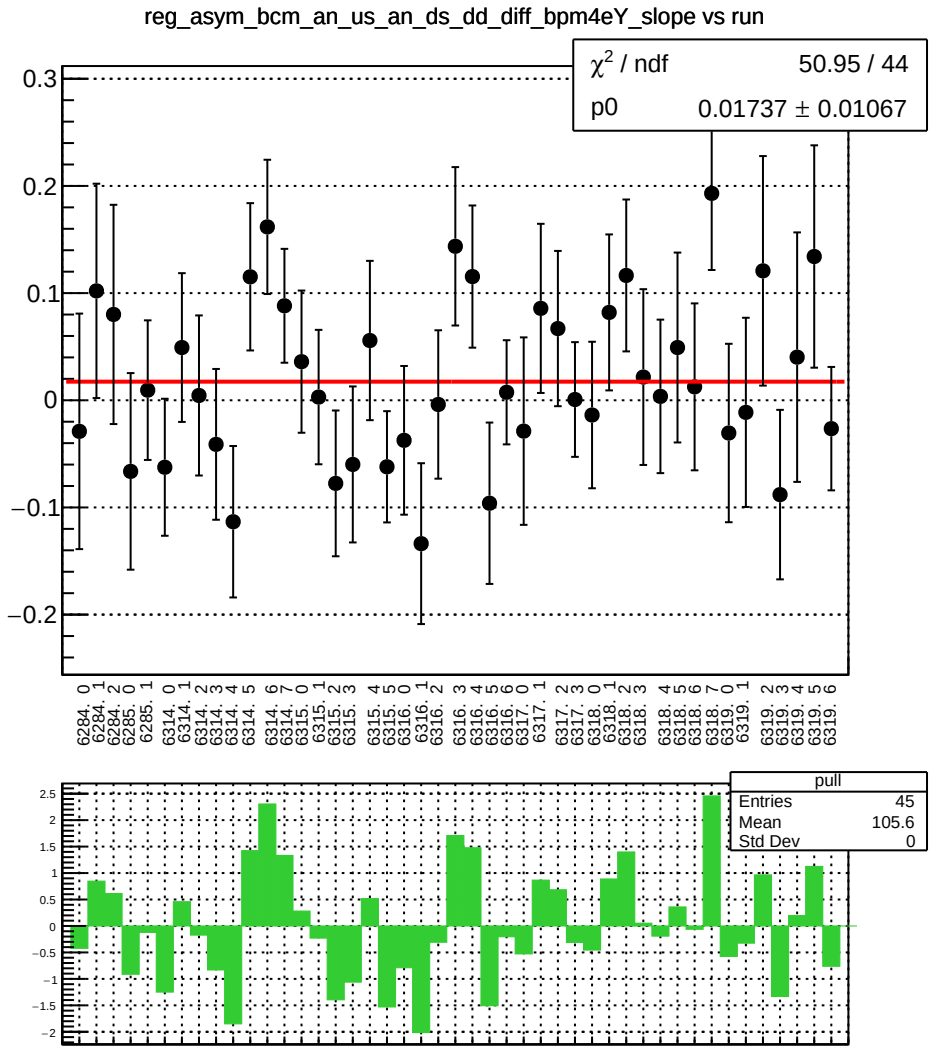

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 33.49 / 44
p0 −0.0519 ± 0.01188
0.2
0.1
0
−0.1
−0.2
−0.3
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 80.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

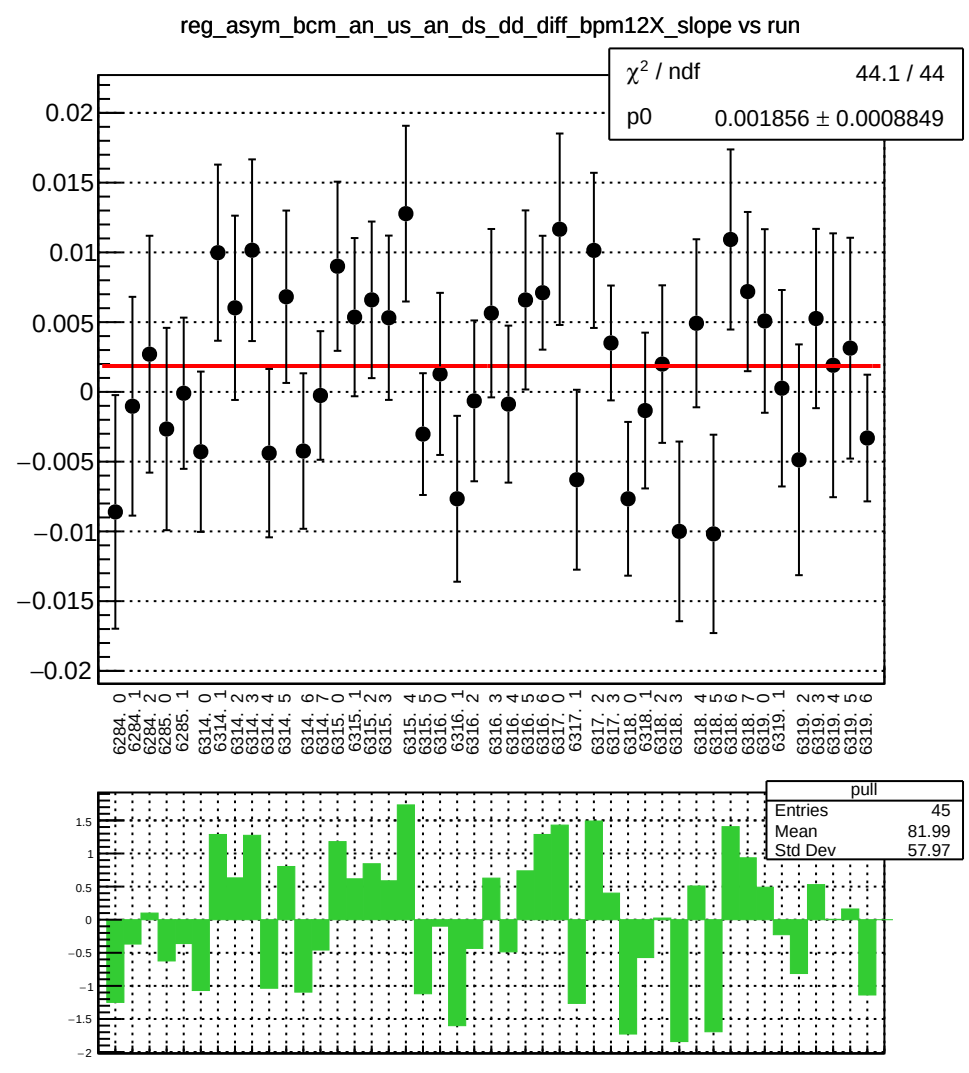

pull1D
Entries 45
Mean 0.01159
Std Dev 0.8626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

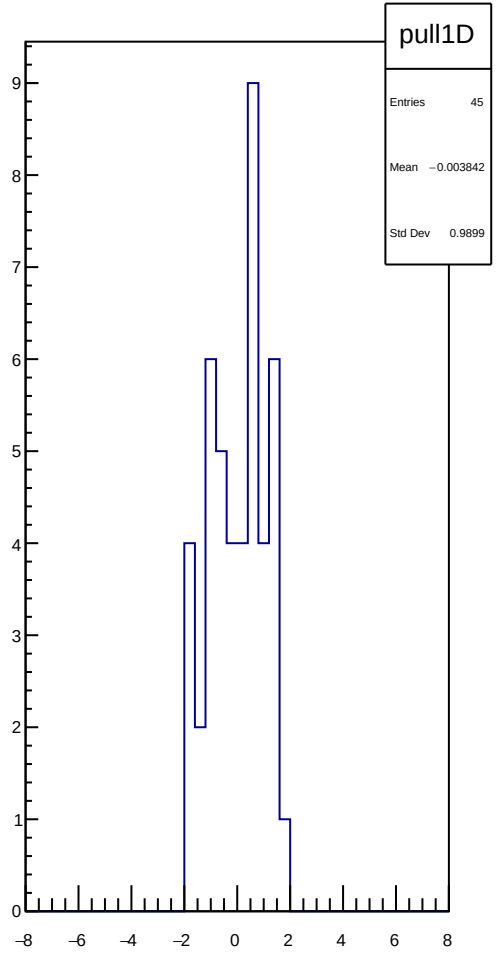

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.04 / 44
p0 −0.0302 ± 0.008668
pull
Entries 45
Mean 88.53
Std Dev 0

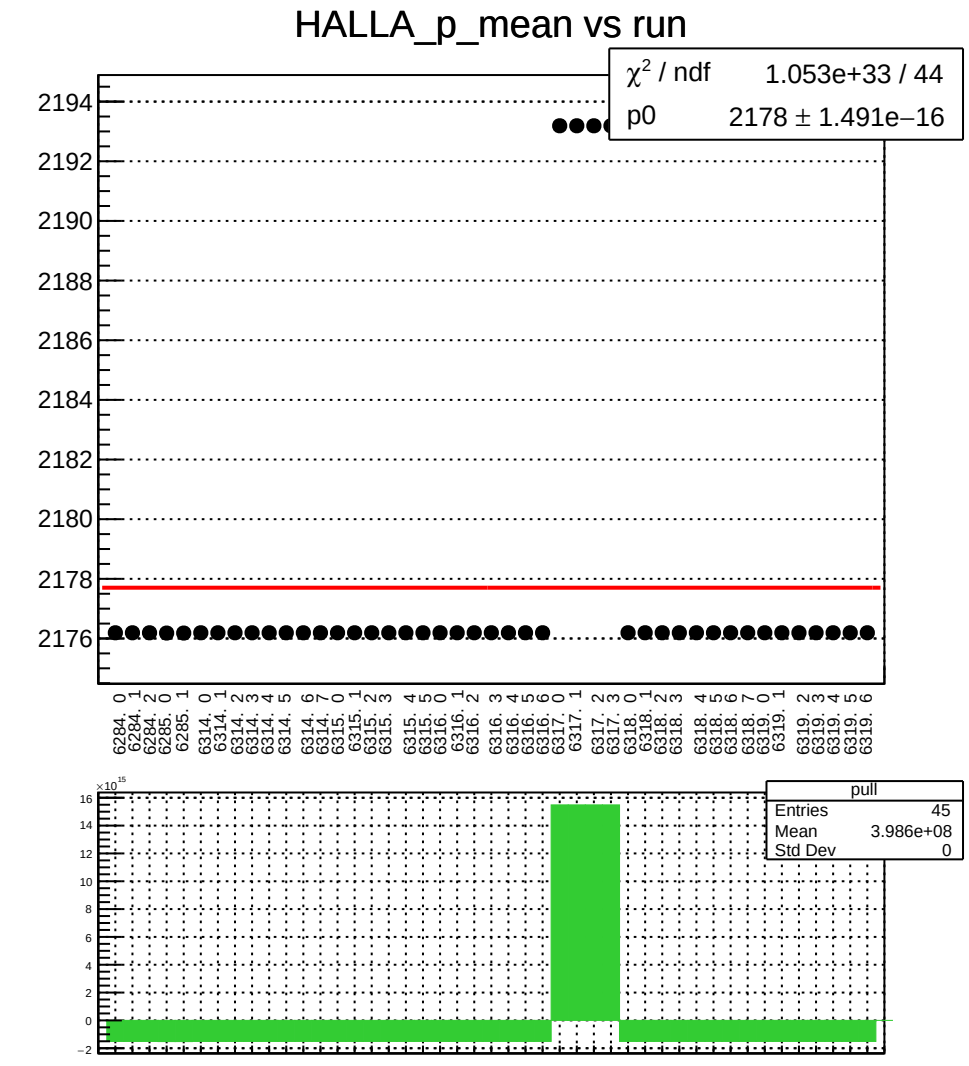

pull1D
Entries 45
Mean −0.02884
Std Dev 1.065

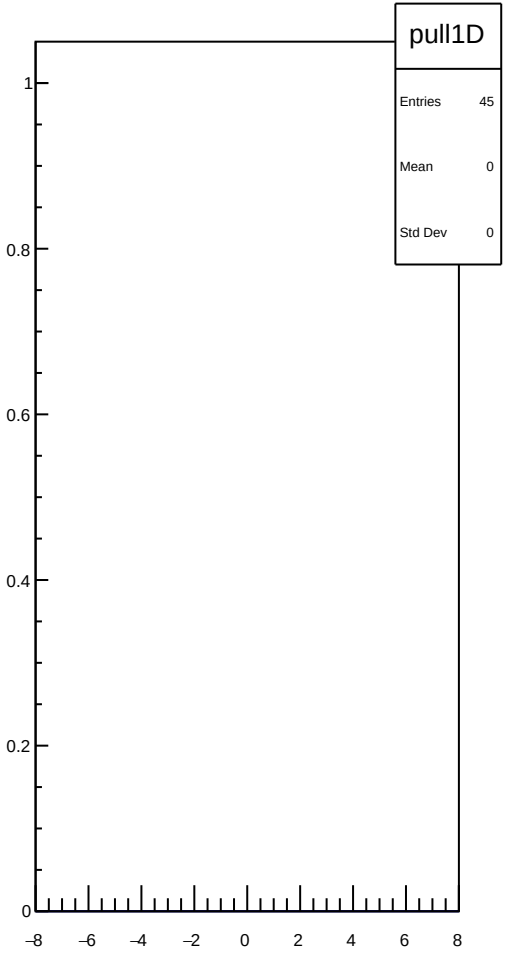

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.29 / 44
p0 0.03956 ± 0.01218
pull
Entries 45
Mean 115.5
Std Dev 0
pull1D
Entries 45
Mean −0.01048
Std Dev 0.86

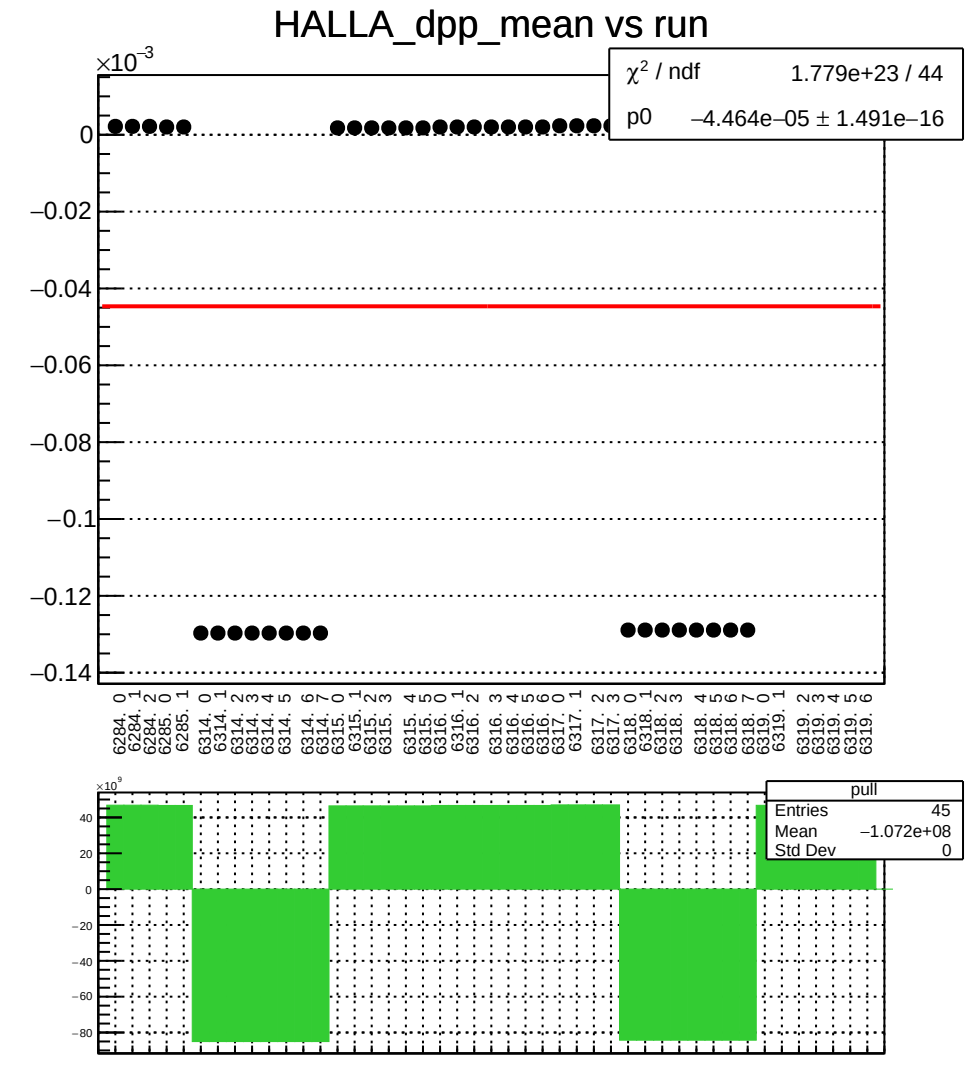

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.95 / 44
p0 0.01737 ± 0.01067
pull
Entries 45
Mean 105.6
Std Dev 0
pull1D
Entries 45
Mean 0.01825
Std Dev 1.064

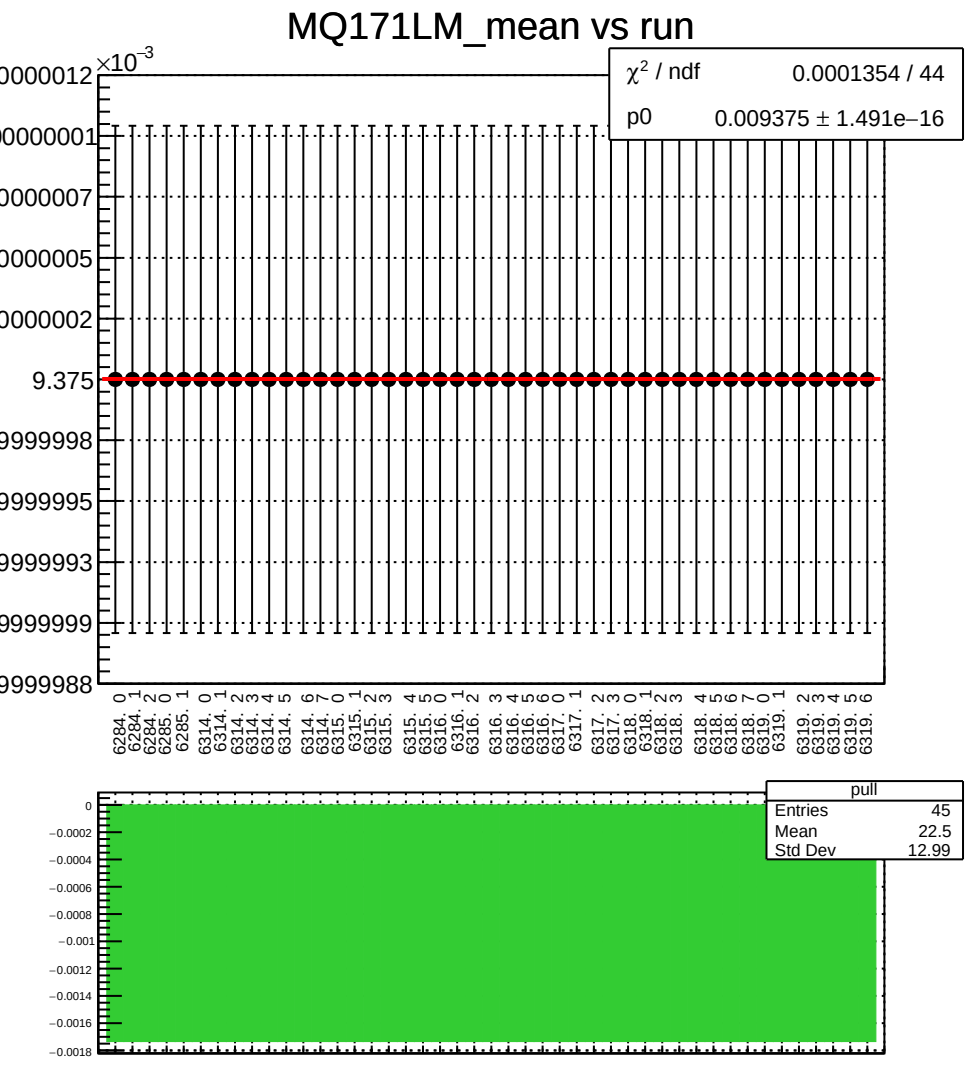

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 44.1 / 44
p0 0.001856 ± 0.0008849
pull
Entries 45
Mean 81.99
Std Dev 57.97

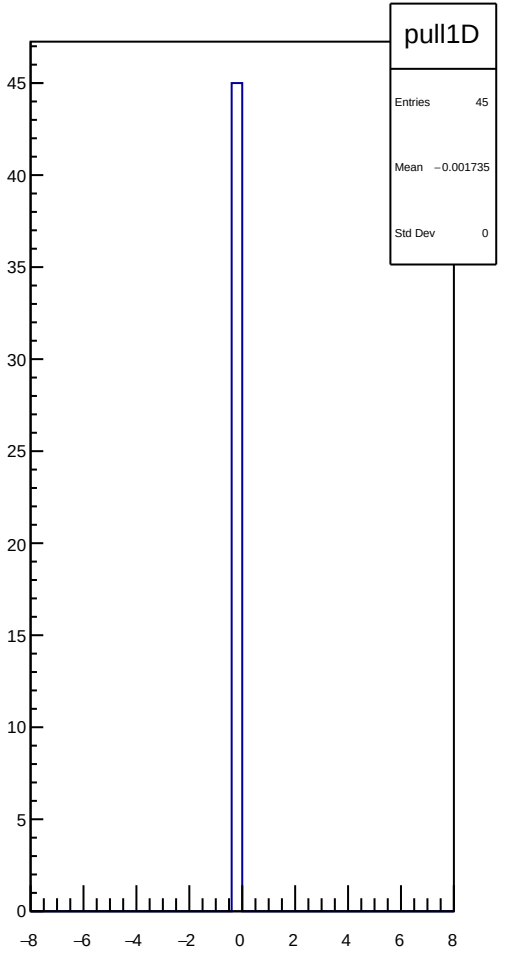

pull1D
Entries 45
Mean −0.003842
Std Dev 0.9899

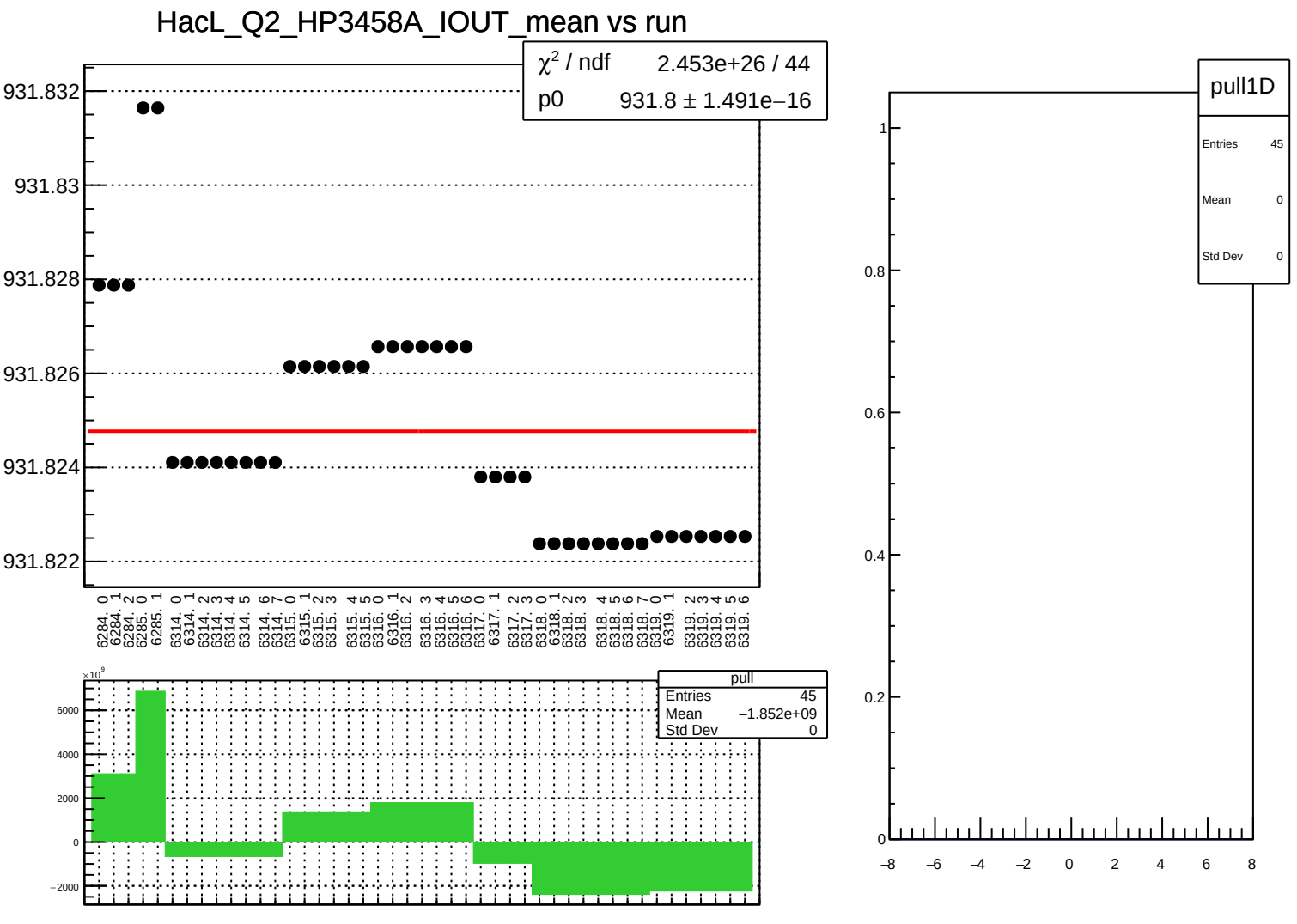

HALLA_p_mean vs run
χ² / ndf 1.053e+33 / 44
p0 2178 ± 1.491e−16
2194
2192
2190
2188
2186
2184
2182
2180
2178
2176
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 3.986e+08
Std Dev 0
×10¹⁵
16
14
12
10
8
6
4
2
0
−2

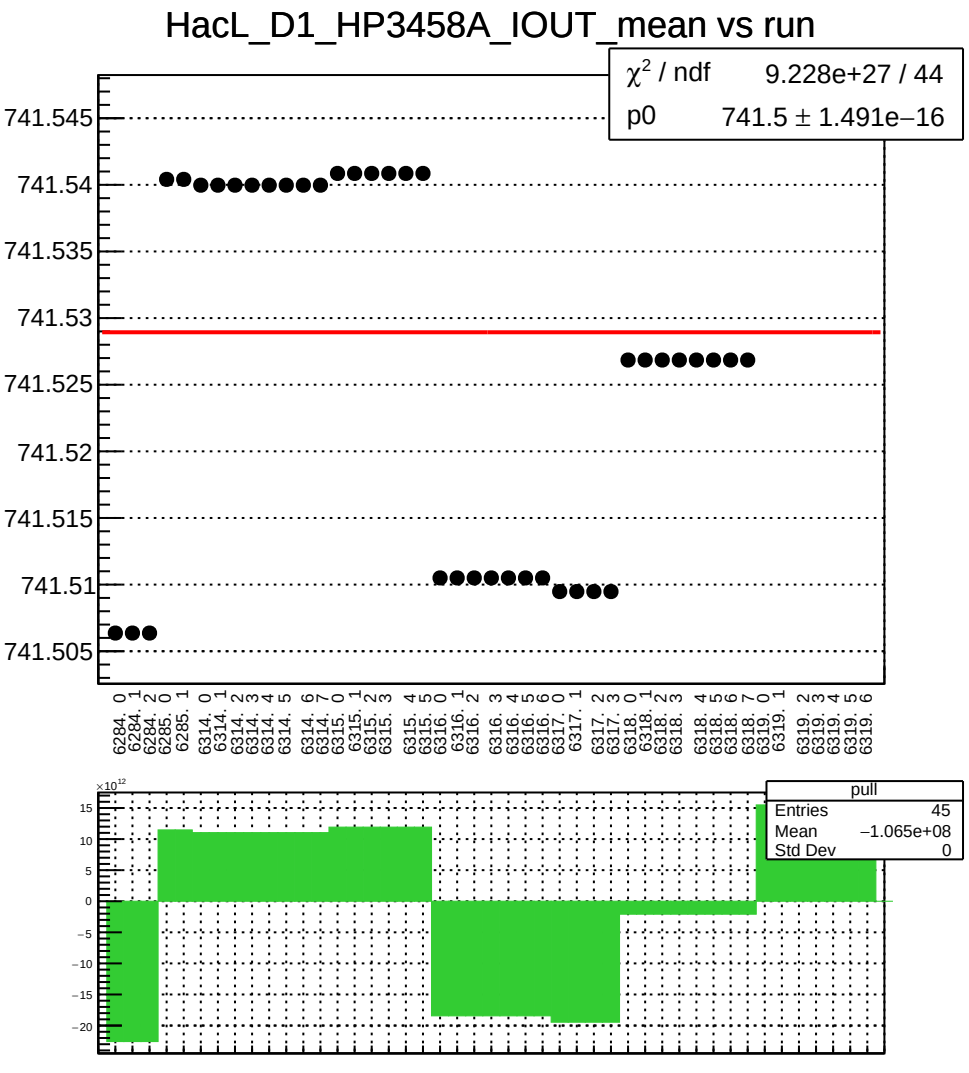

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

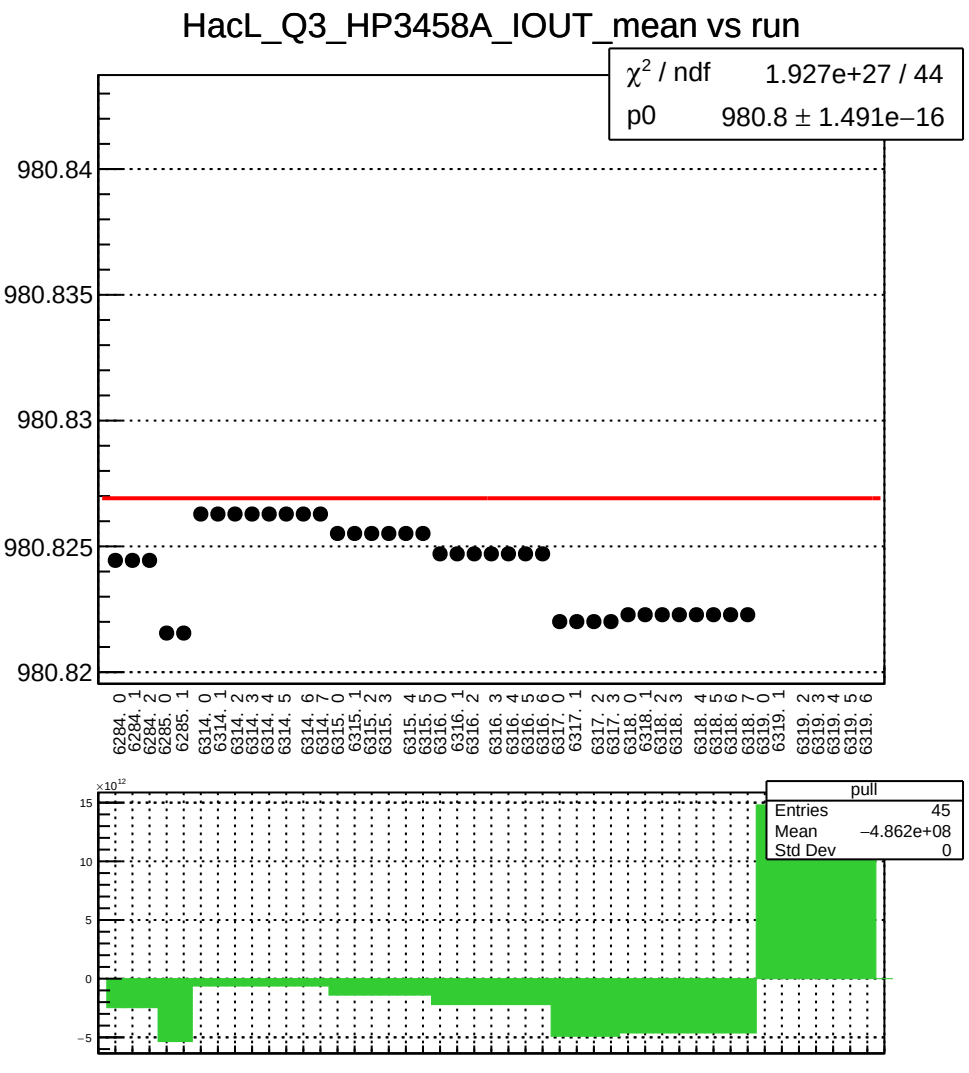

HALLA_dpp_mean vs run
χ² / ndf 1.779e+23 / 44
p0 −4.464e−05 ± 1.491e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
40
20
0
−20
−40
−60
−80
pull
Entries 45
Mean −1.072e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

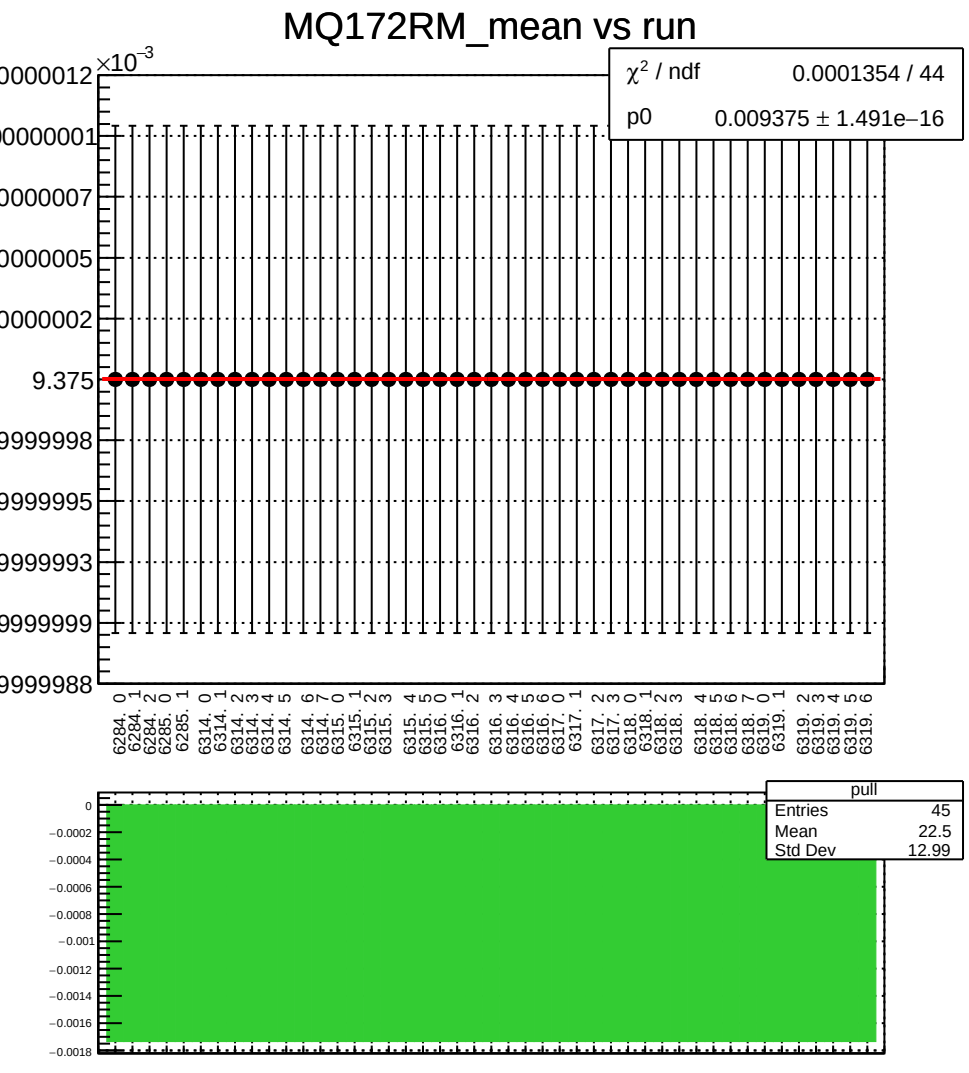

MQ171LM_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

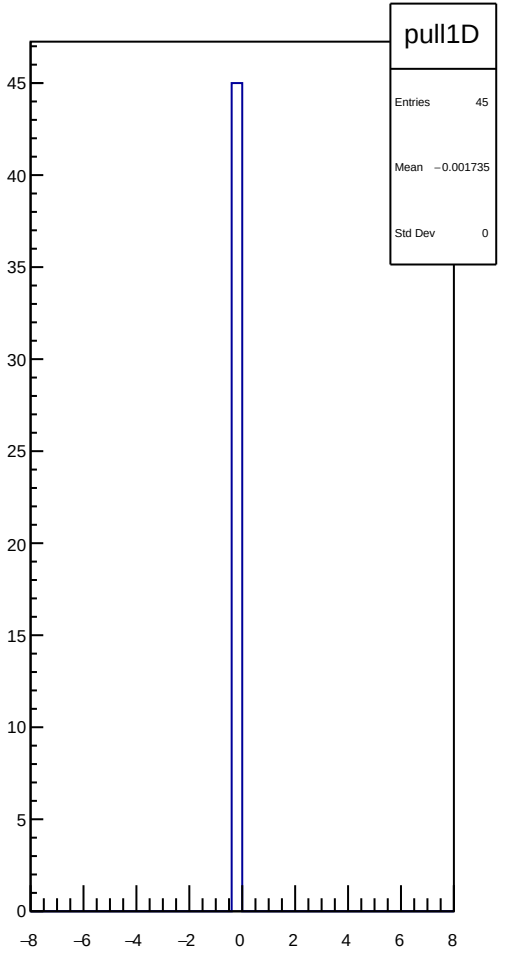

pull1D
Entries 45
Mean −0.001735
Std Dev 0

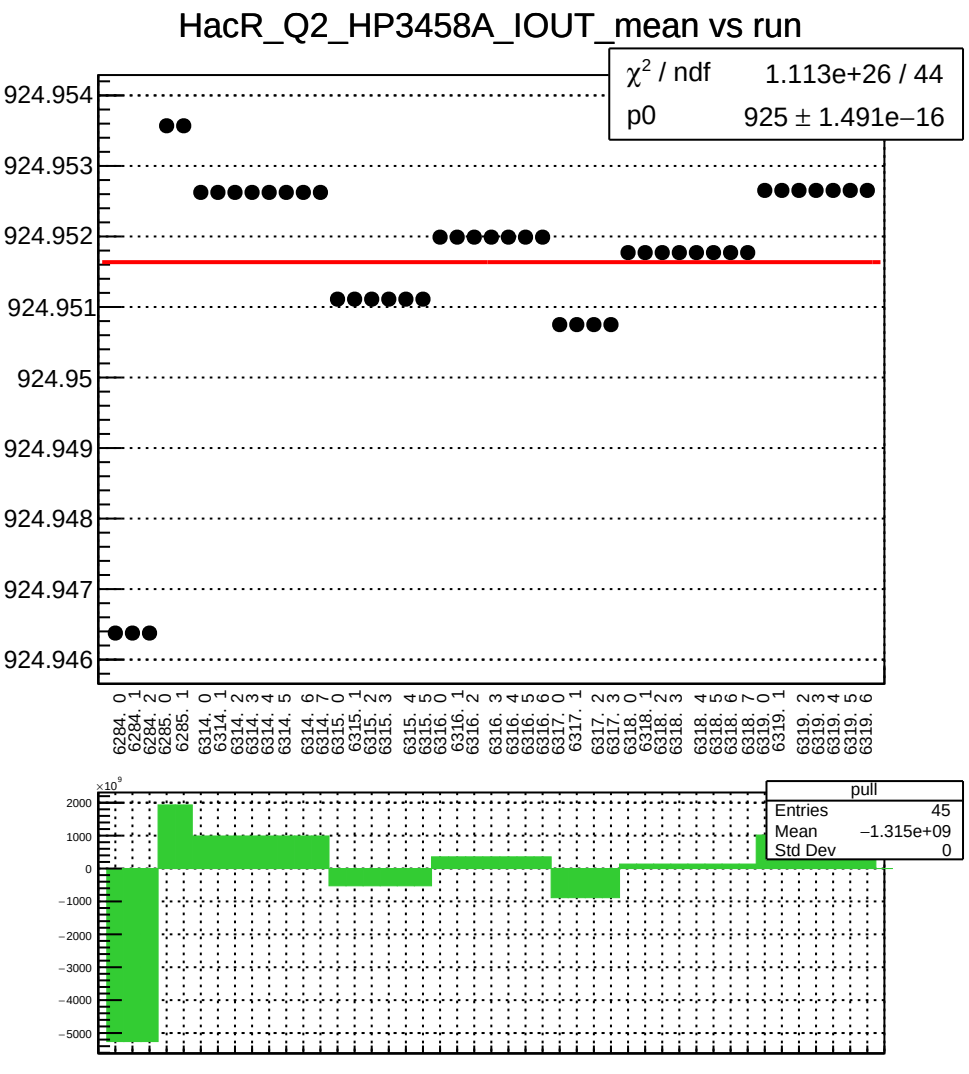

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.453e+26 / 44
p0 931.8 ± 1.491e−16
931.832
931.83
931.828
931.826
931.824
931.822
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
6000
4000
2000
0
−2000
pull
Entries 45
Mean −1.852e+09
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

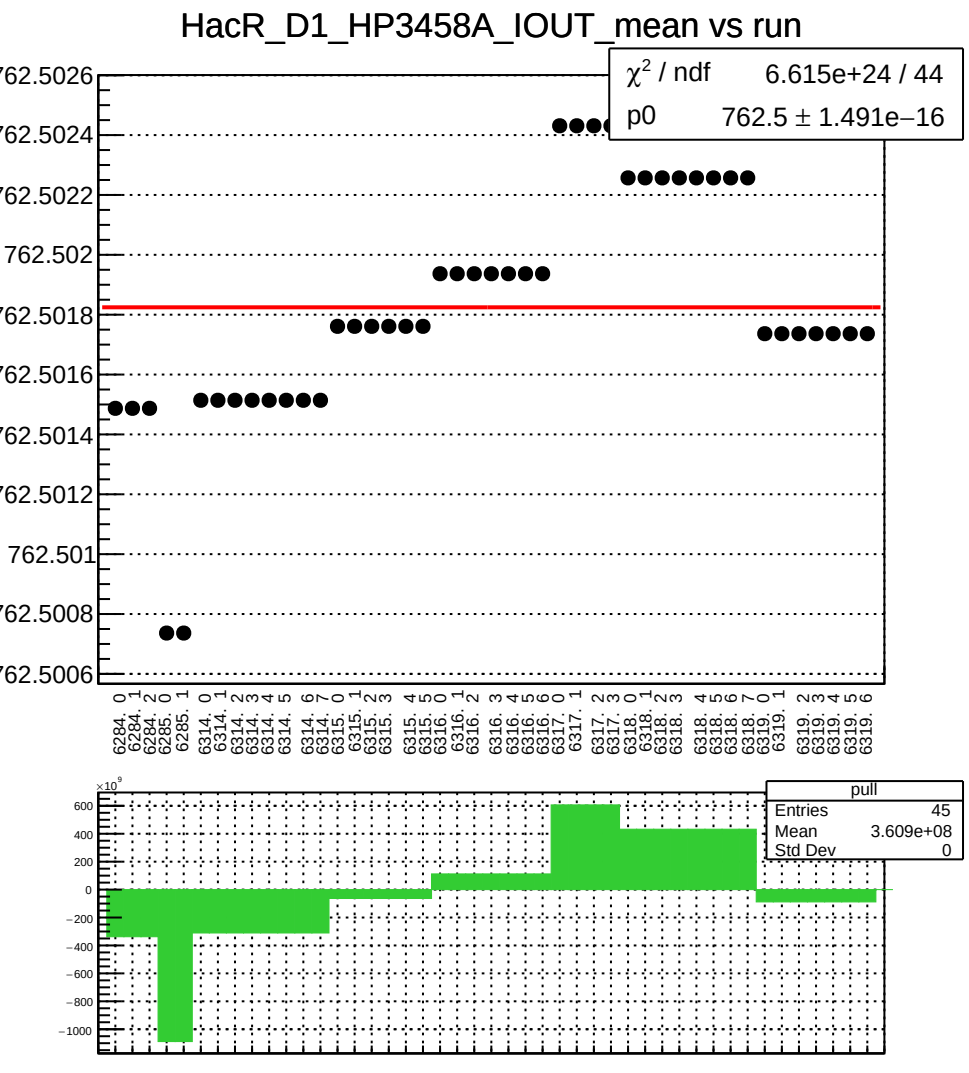

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.228e+27 / 44
p0 741.5 ± 1.491e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10¹²
15
10
5
0
−5
−10
−15
−20
pull
Entries 45
Mean −1.065e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

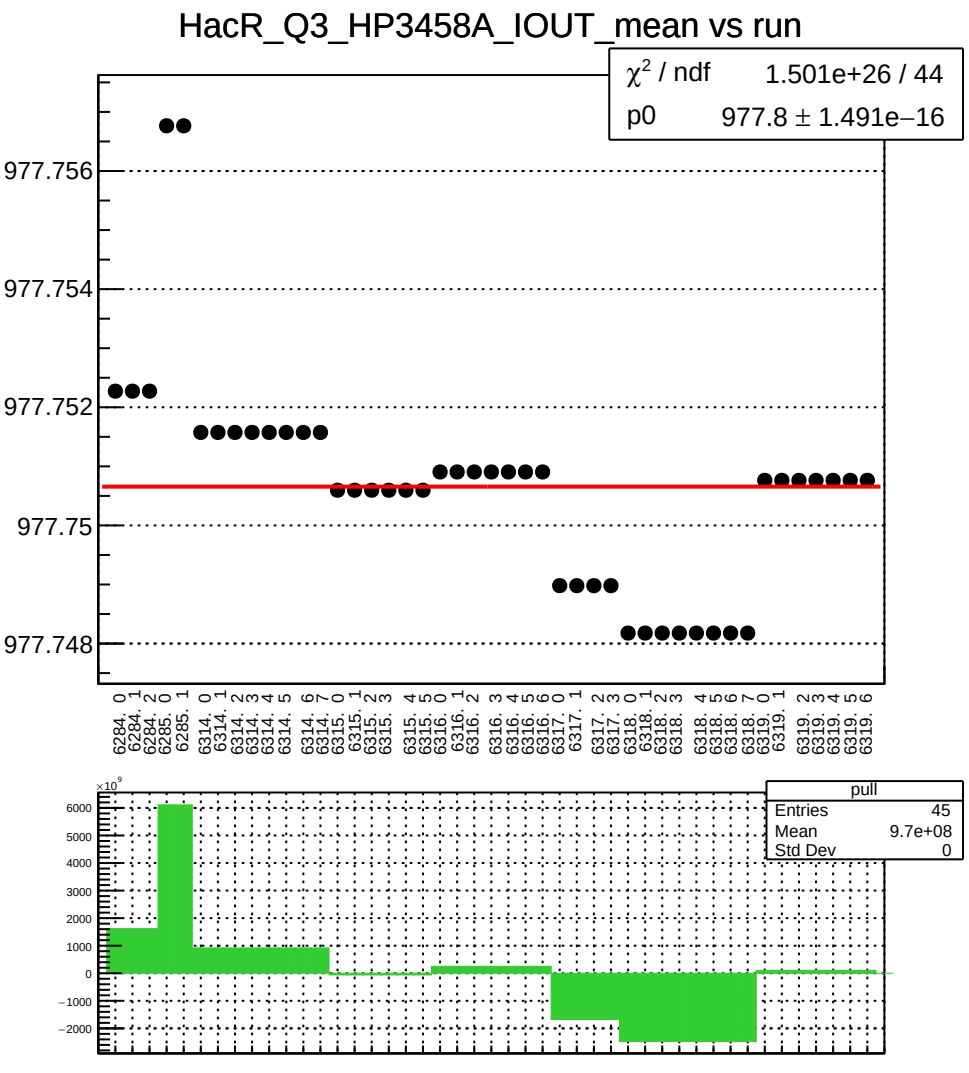

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.927e+27 / 44
p0 980.8 ± 1.491e−16
980.84
980.835
980.83
980.825
980.82
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10¹²
15
10
5
0
−5
pull
Entries 45
Mean −4.862e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

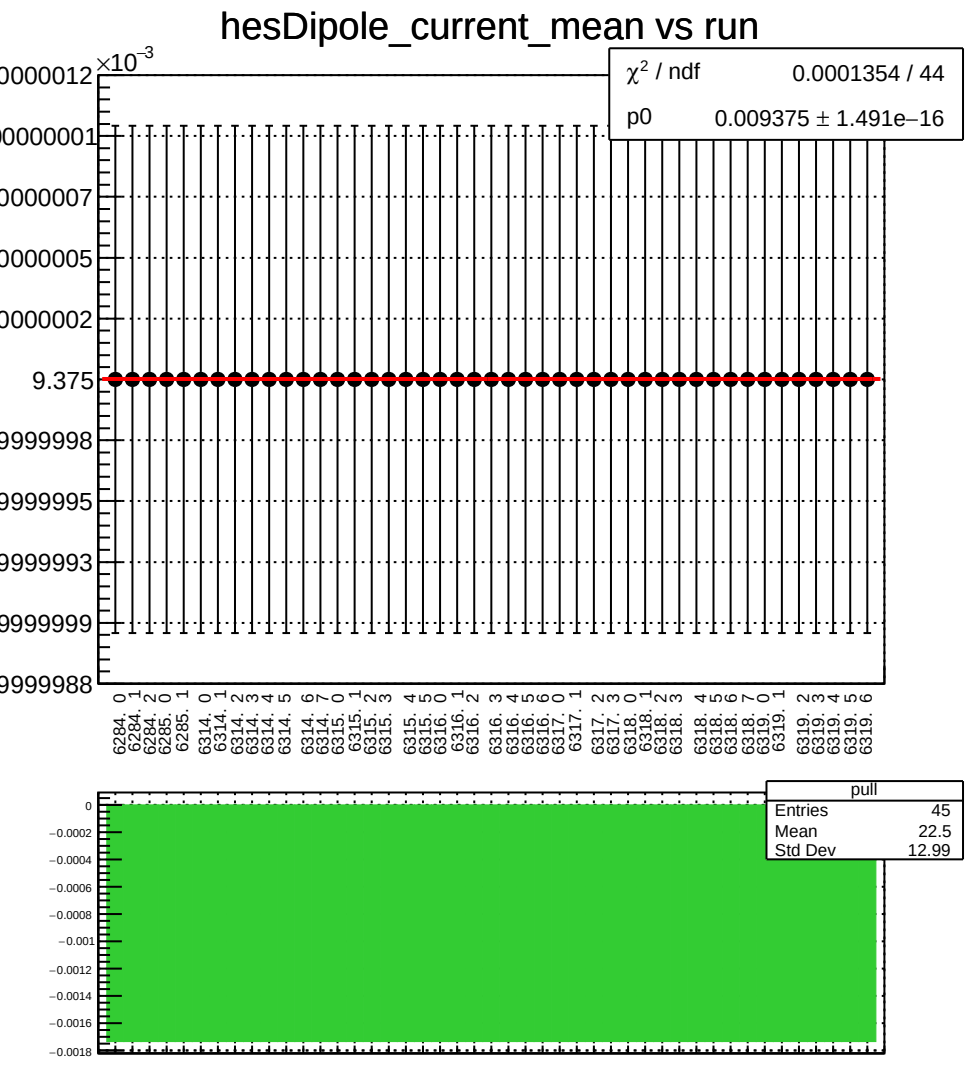

MQ172RM_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

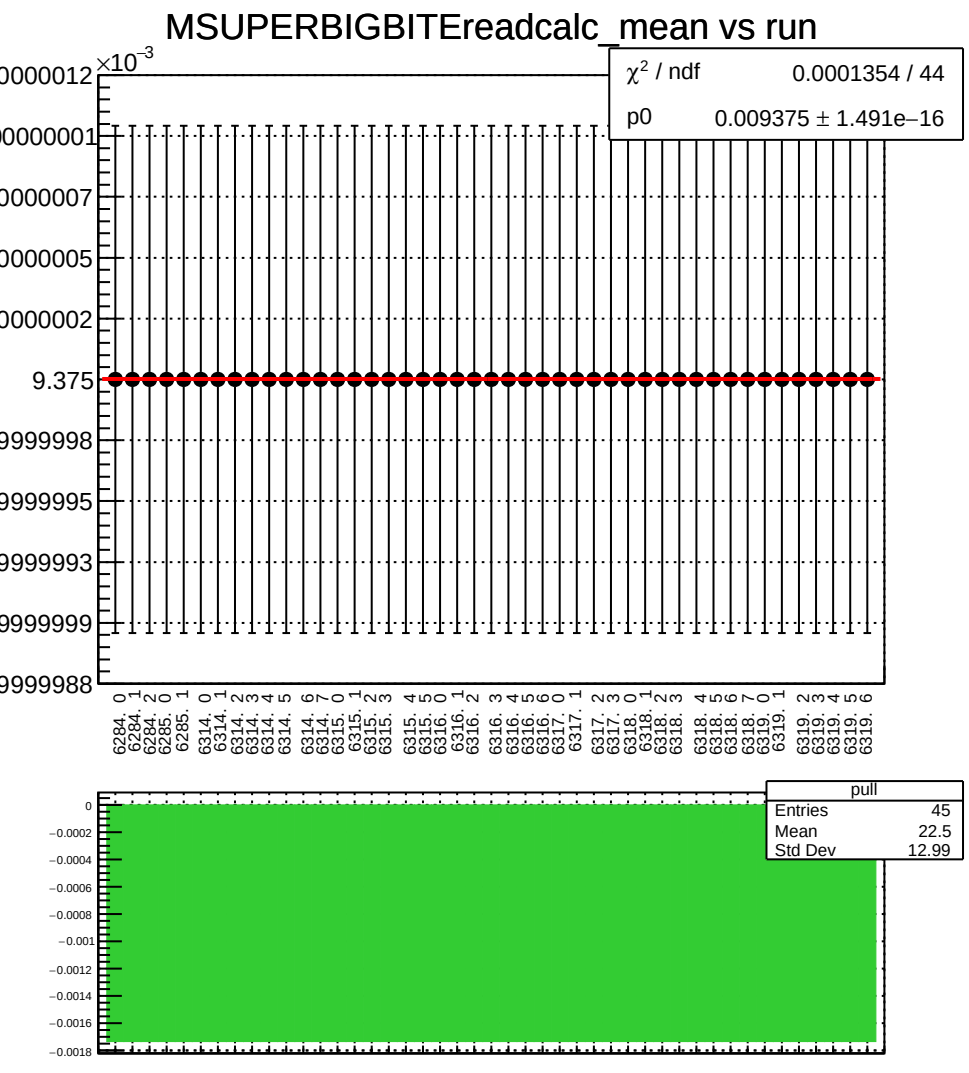

pull1D
Entries 45
Mean −0.001735
Std Dev 0

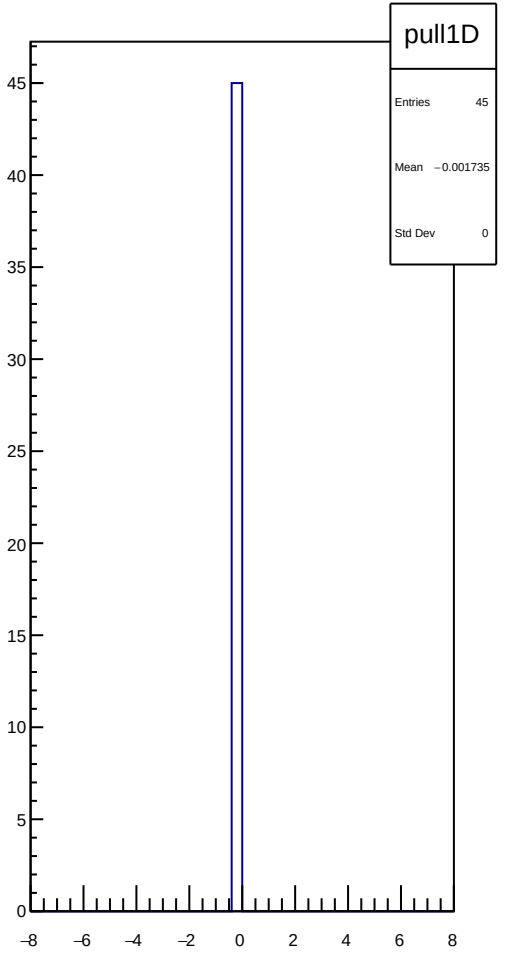

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.113e+26 / 44
p0 925 ± 1.491e−16
924.954
924.953
924.952
924.951
924.95
924.949
924.948
924.947
924.946
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 45
Mean −1.315e+09
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

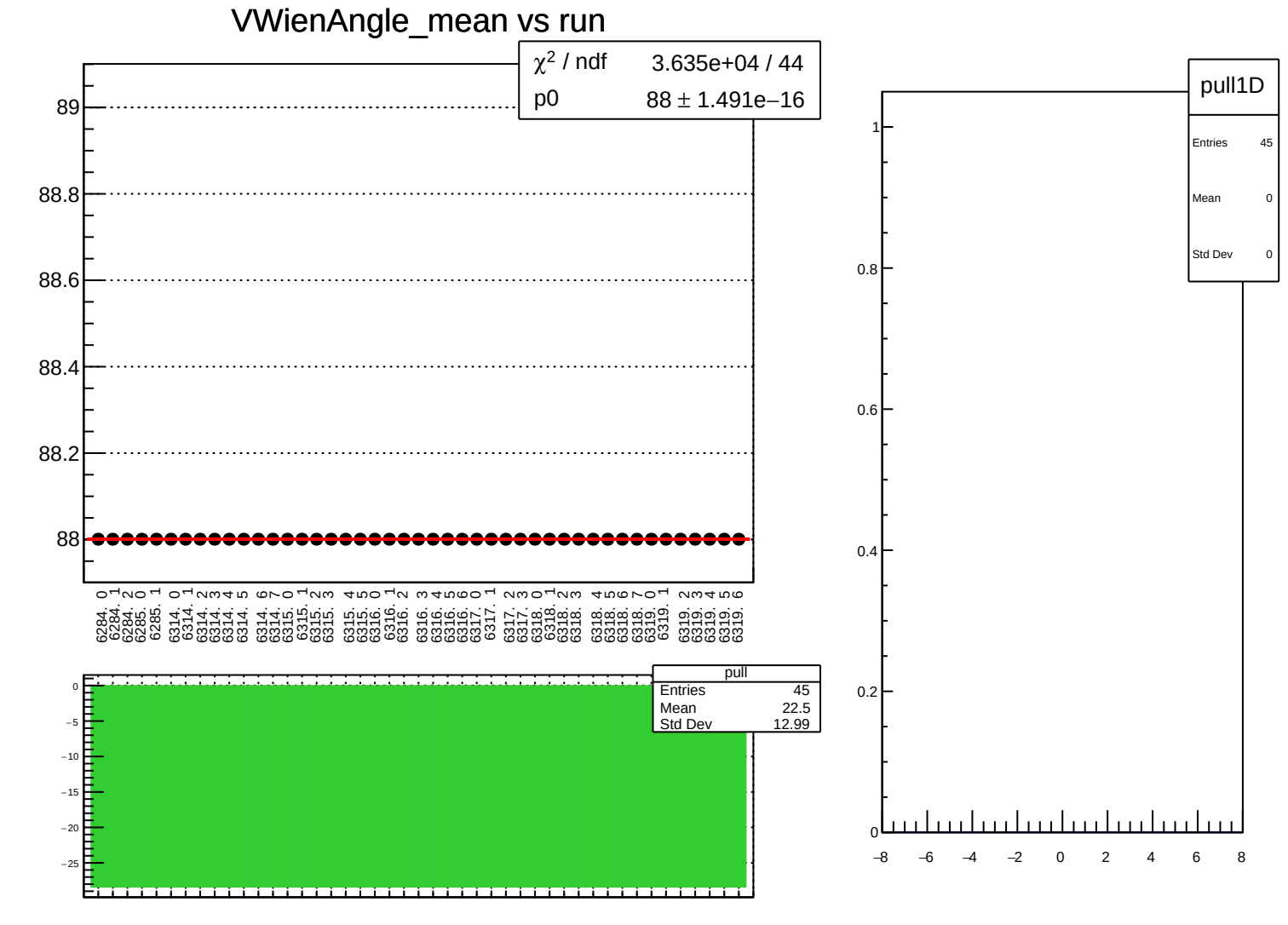

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.615e+24 / 44
p0 762.5 ± 1.491e−16
762.5026
762.5024
762.5022
762.502
762.5018
762.5016
762.5014
762.5012
762.501
762.5008
762.5006
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 45
Mean 3.609e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

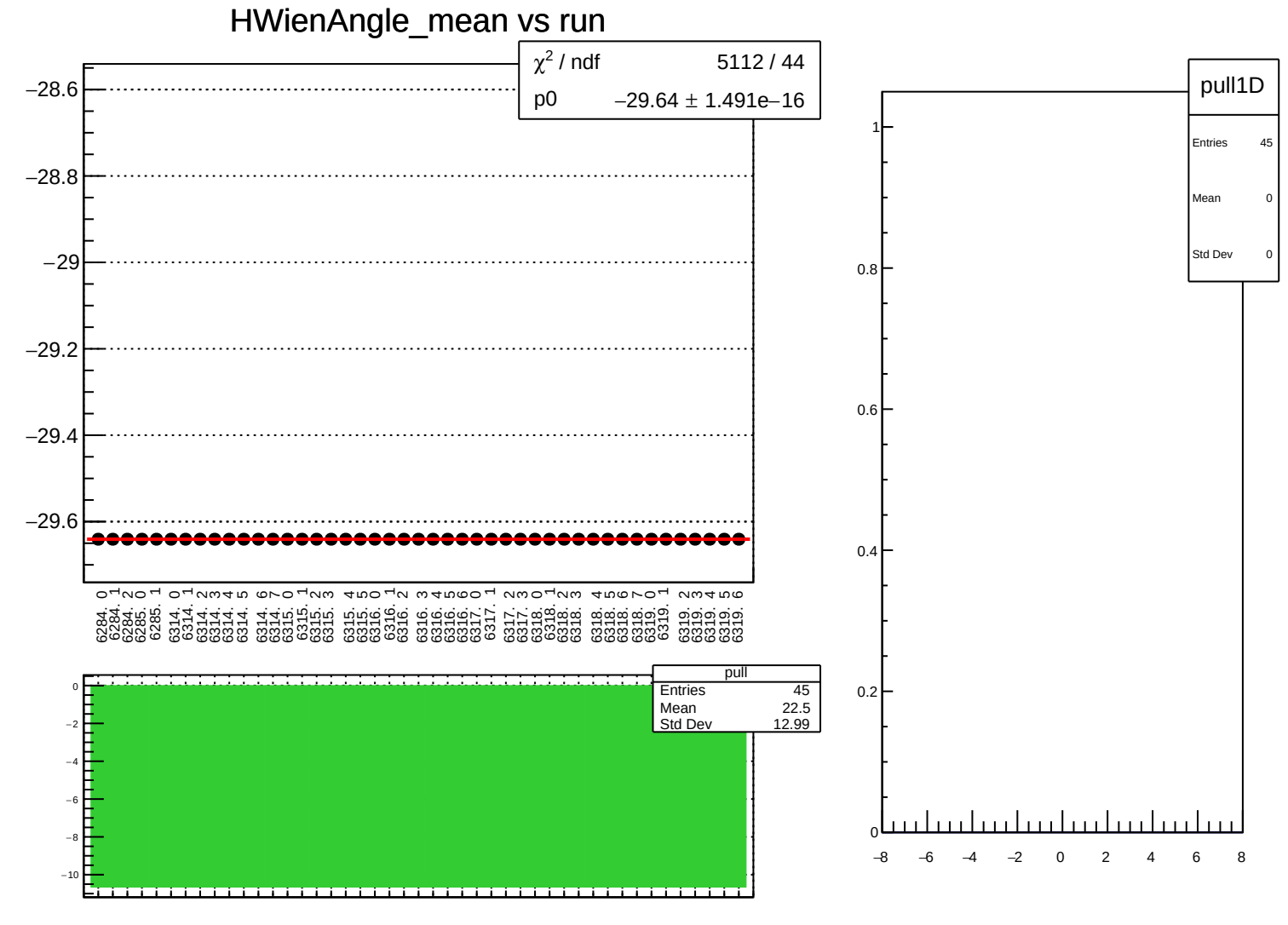

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.501e+26 / 44
p0 977.8 ± 1.491e−16
977.756
977.754
977.752
977.75
977.748
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
6000
5000
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 45
Mean 9.7e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

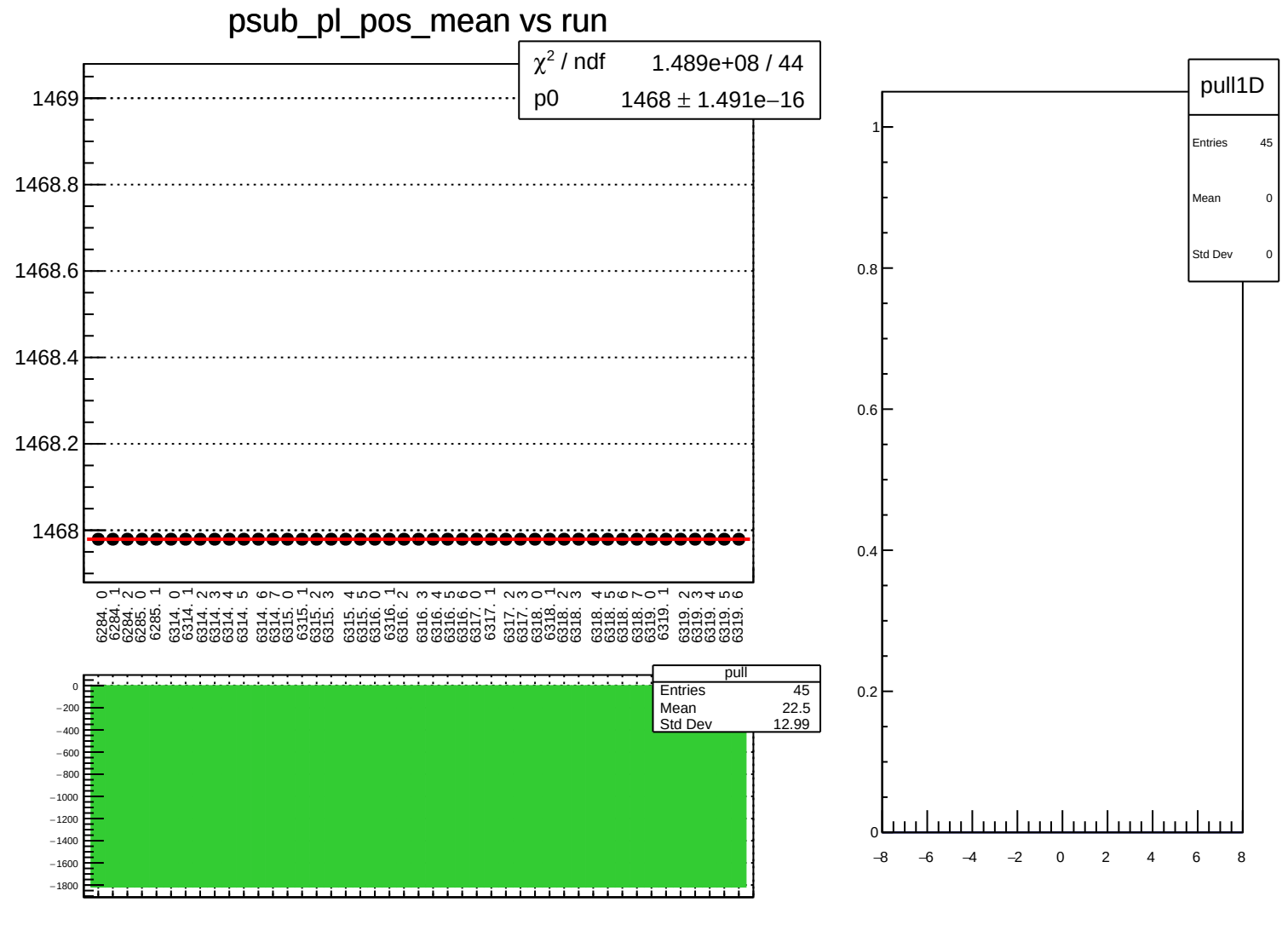

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
9.375
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −0.001735
Std Dev 0

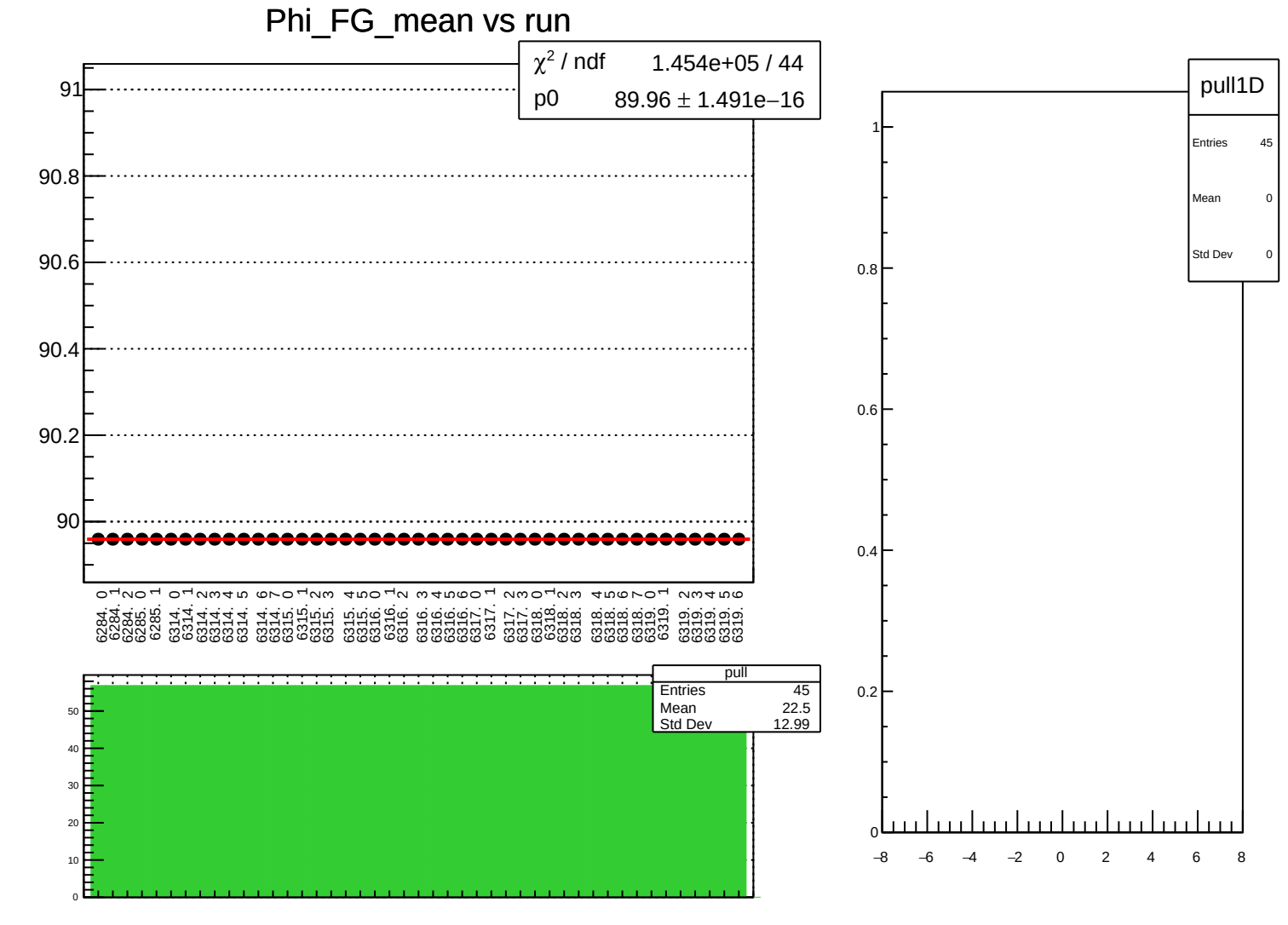

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

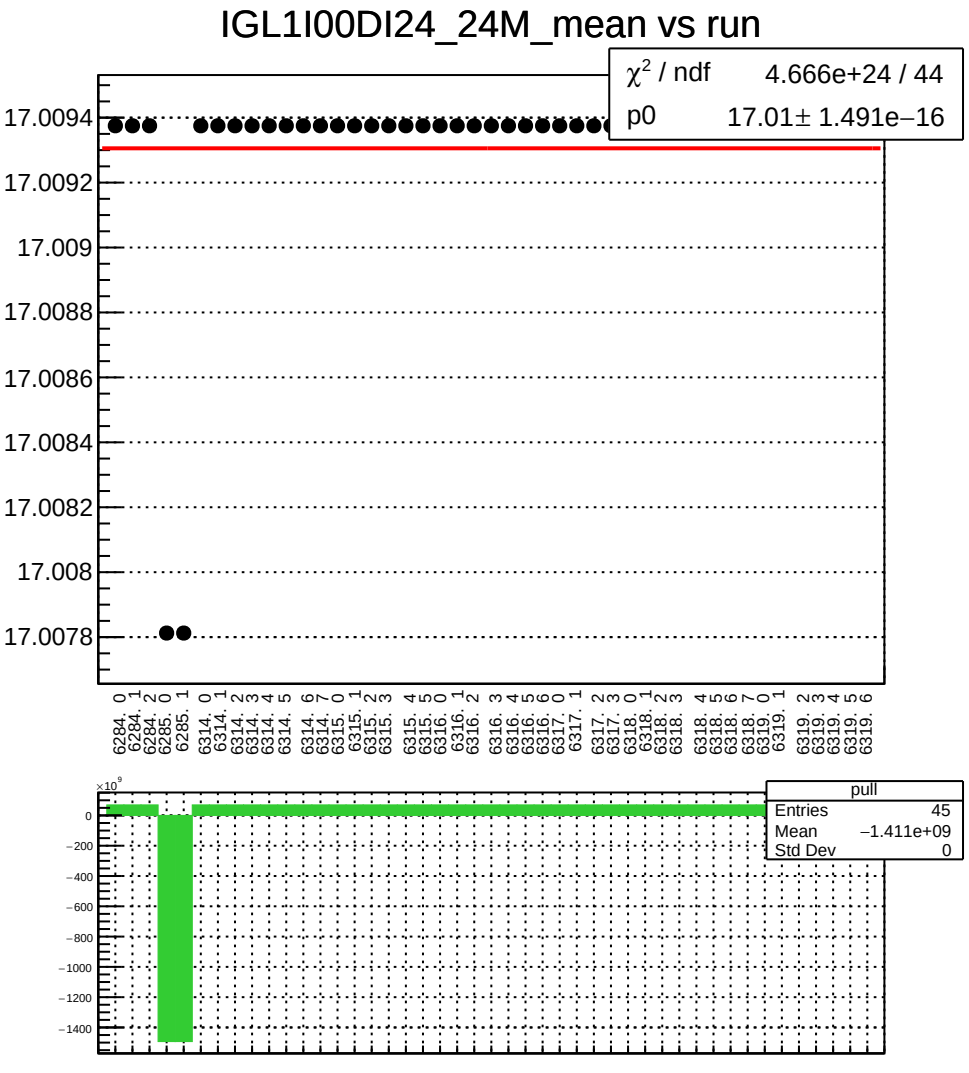

pull1D
Entries 45
Mean −0.001735
Std Dev 0

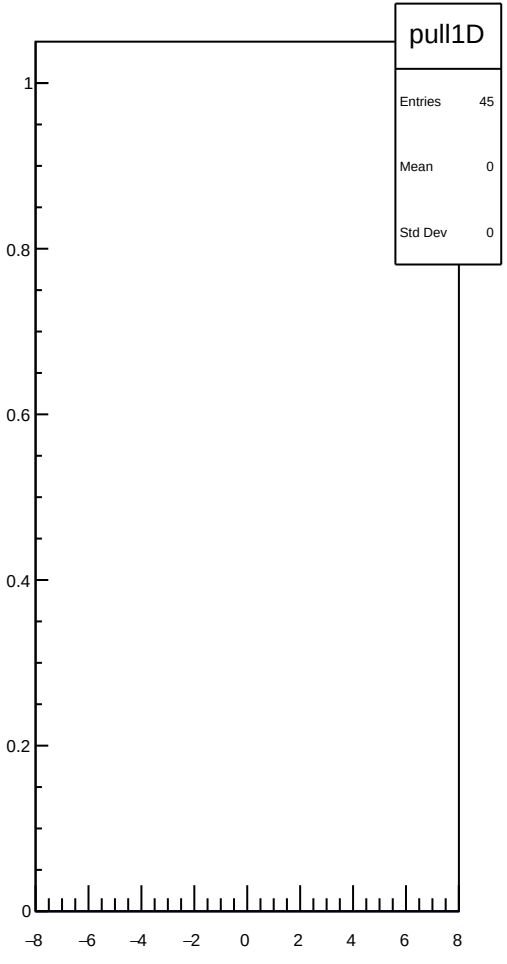

VWienAngle_mean vs run
χ² / ndf 3.635e+04 / 44
p0 88 ± 1.491e−16
89
88.8
88.6
88.4
88.2
88
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−5
−10
−15
−20
−25
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

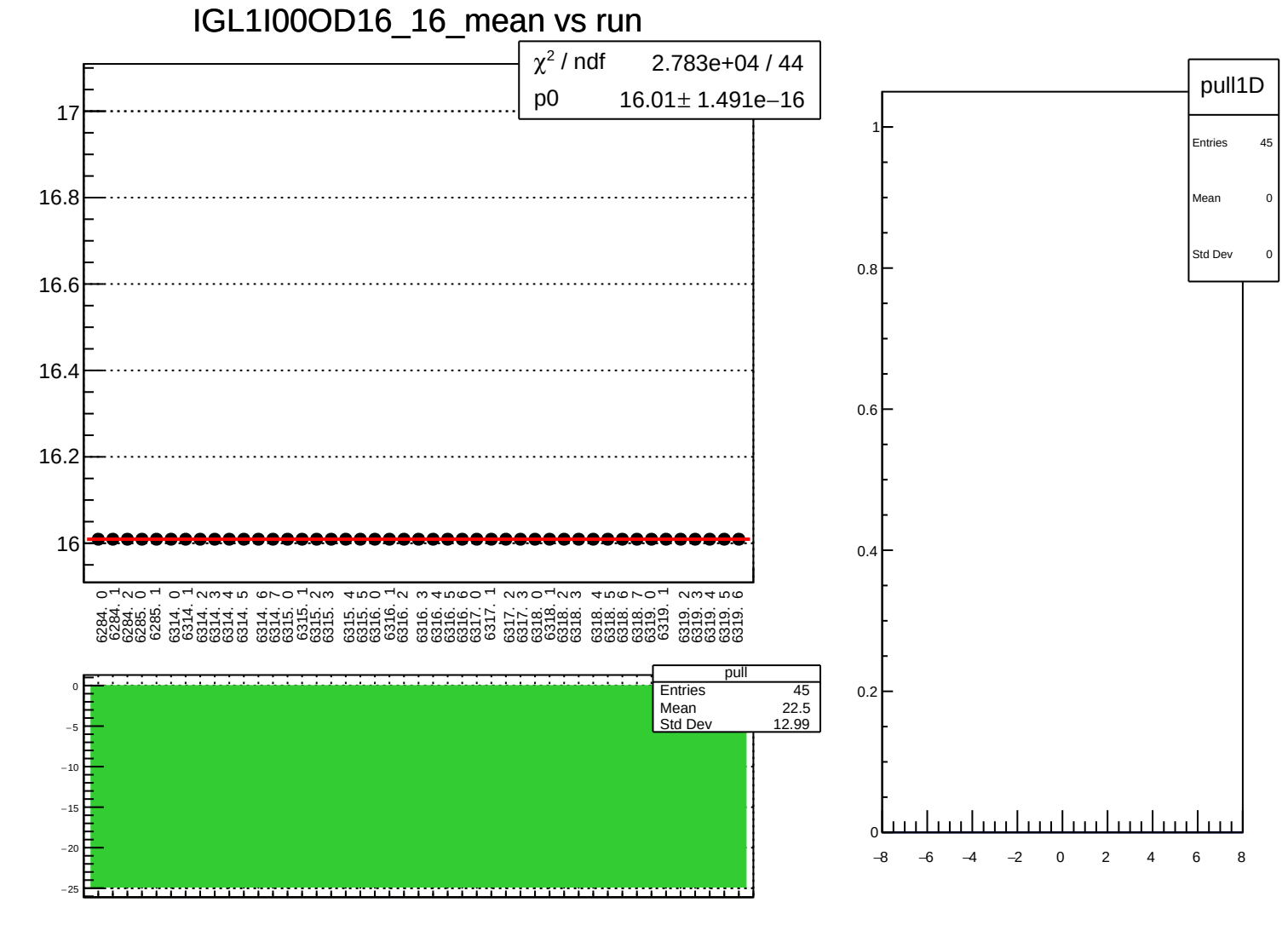

HWienAngle_mean vs run
χ² / ndf 5112 / 44
p0 −29.64 ± 1.491e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−2
−4
−6
−8
−10
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

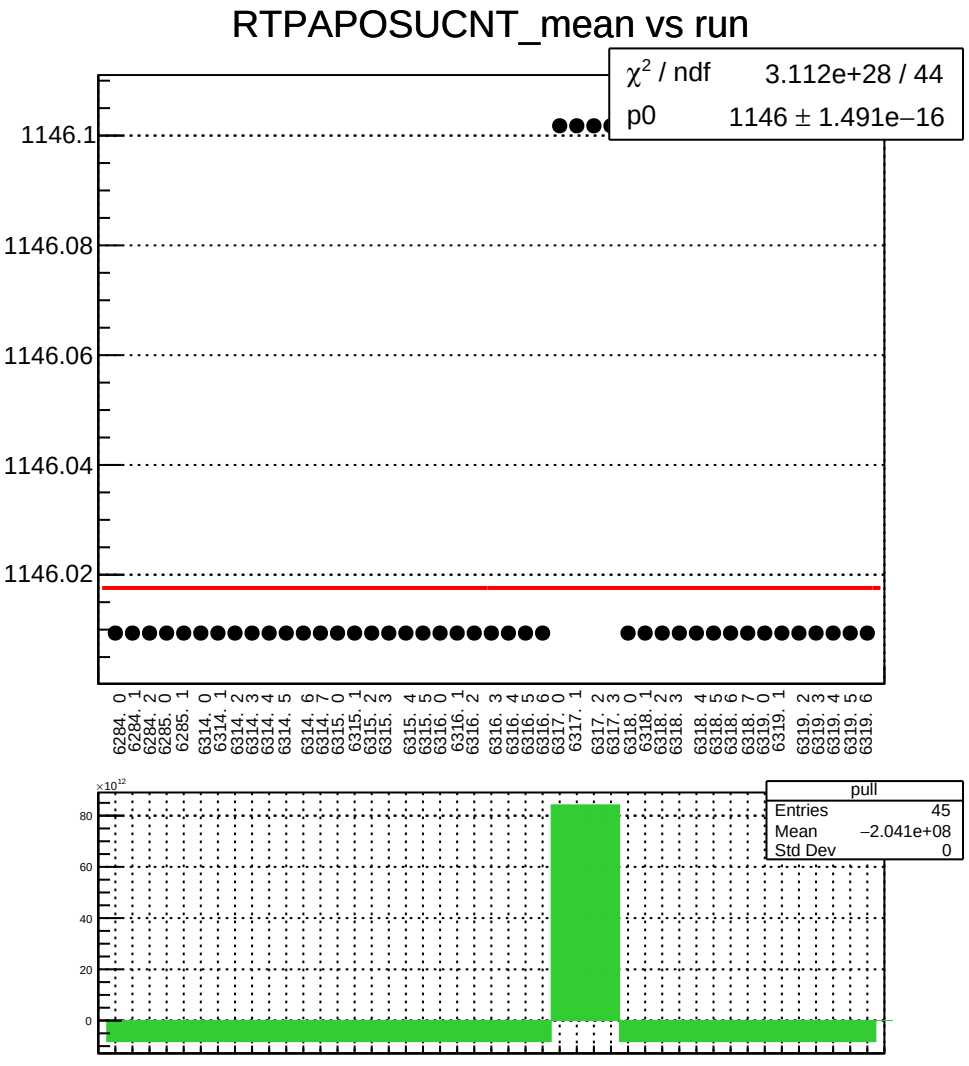

psub_pl_pos_mean vs run
χ² / ndf 1.489e+08 / 44
p0 1468 ± 1.491e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

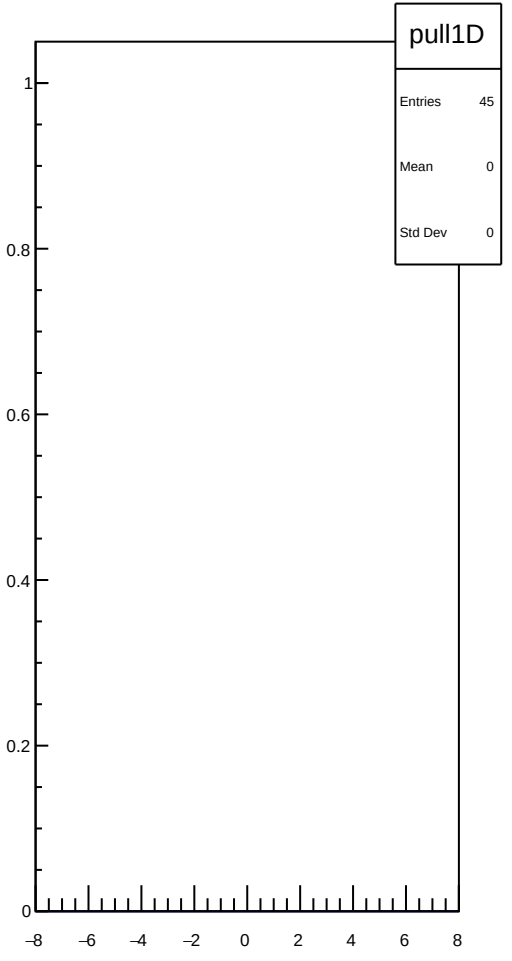

Phi_FG_mean vs run
χ² / ndf 1.454e+05 / 44
p0 89.96 ± 1.491e−16
91
90.8
90.6
90.4
90.2
90
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
50
40
30
20
10
0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

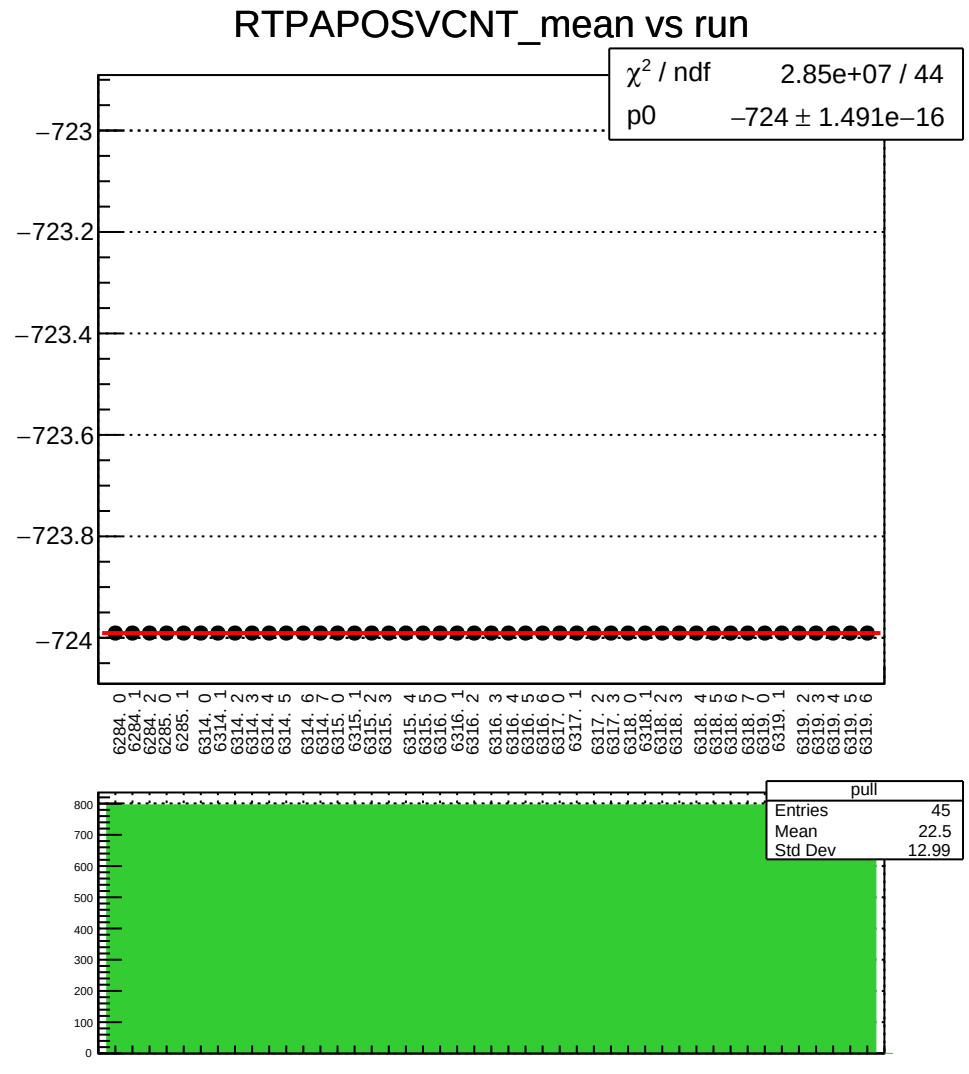

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.666e+24 / 44
p0 17.01± 1.491e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 45
Mean −1.411e+09
Std Dev 0

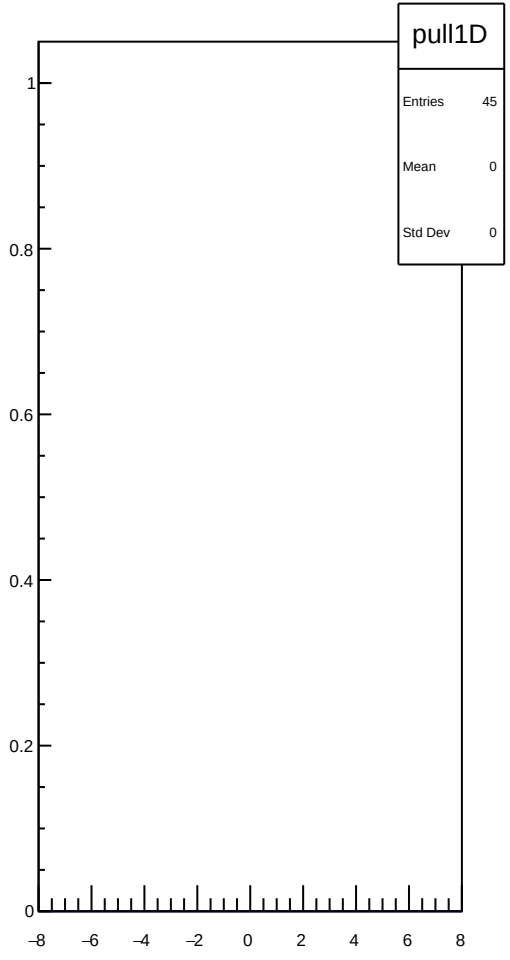

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

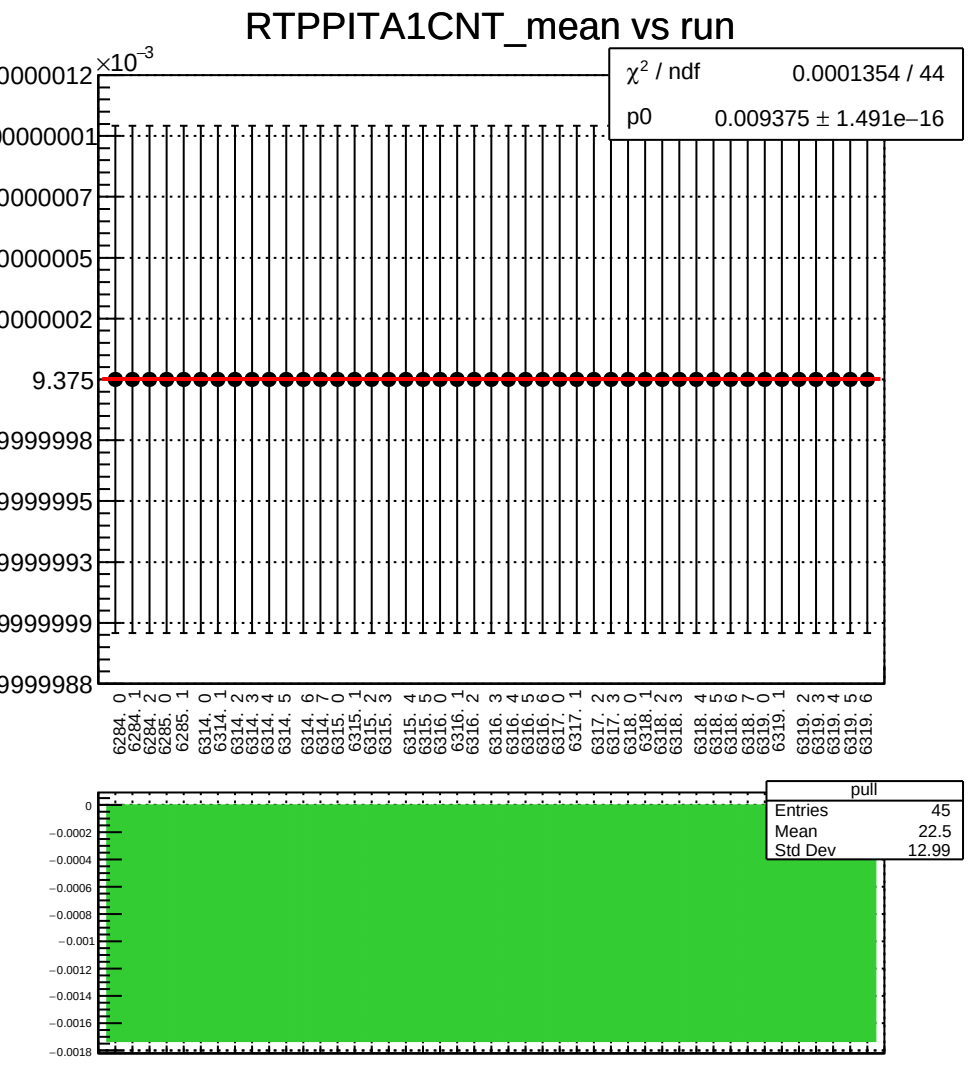

IGL1I00OD16_16_mean vs run
χ² / ndf 2.783e+04 / 44
p0 16.01± 1.491e−16
17
16.8
16.6
16.4
16.2
16
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−5
−10
−15
−20
−25
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

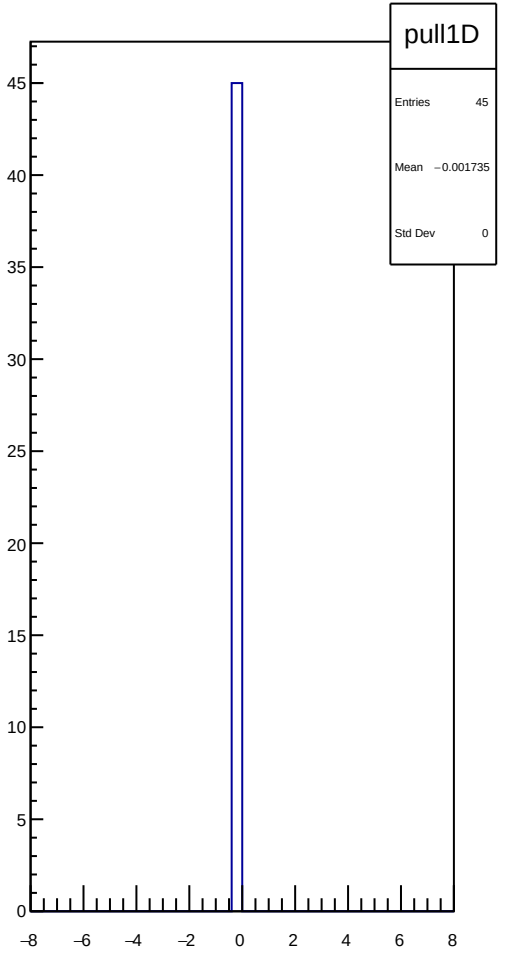

RTPAPOSUCNT_mean vs run
χ² / ndf 3.112e+28 / 44
p0 1146 ± 1.491e−16
1146.1
1146.08
1146.06
1146.04
1146.02
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10¹²
80
60
40
20
0
pull
Entries 45
Mean −2.041e+08
Std Dev 0

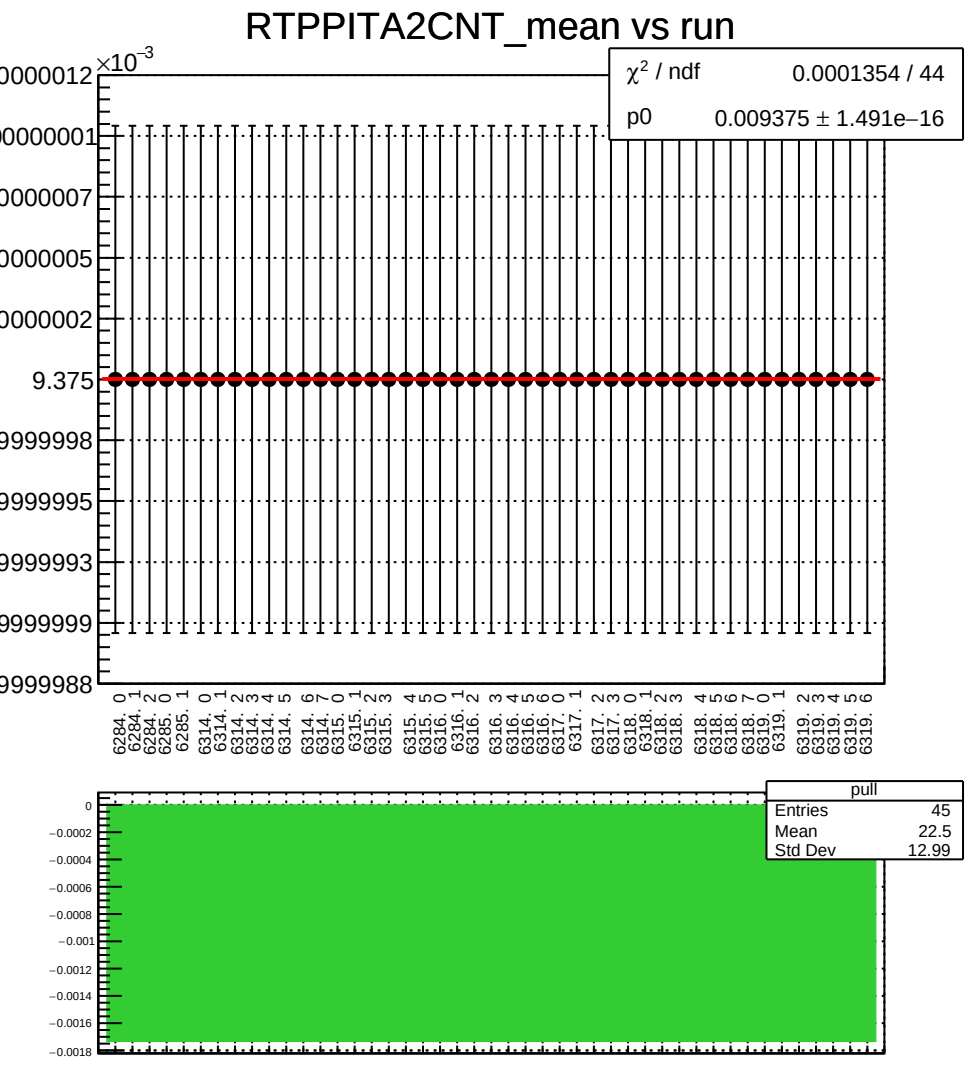

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

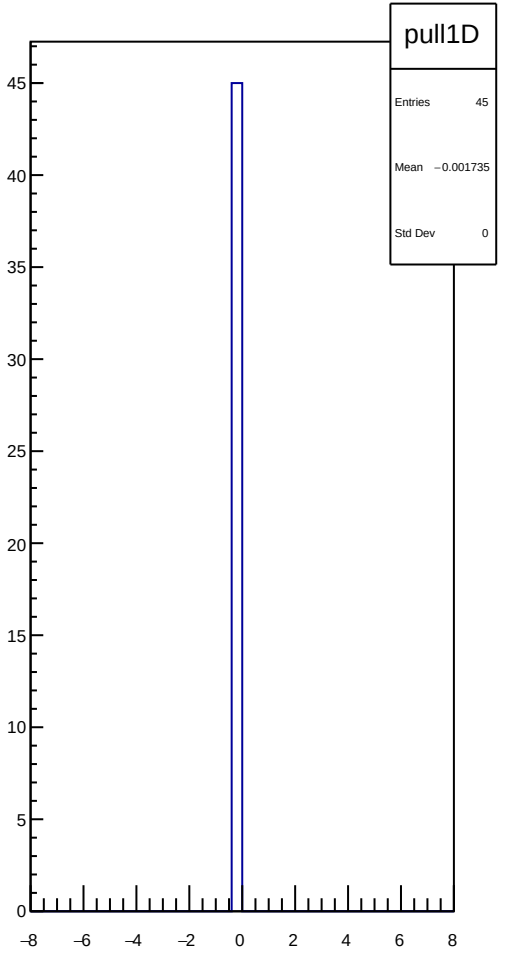

RTPAPOSVCNT_mean vs run
χ² / ndf 2.85e+07 / 44
p0 −724 ± 1.491e−16
−723
−723.2
−723.4
−723.6
−723.8
−724
6284. 0
6284. 1
6284. 2
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6318. 7
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 45
Mean 22.5
Std Dev 12.99
800
700
600
500
400
300
200
100
0


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
9.375
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −0.001735
Std Dev 0