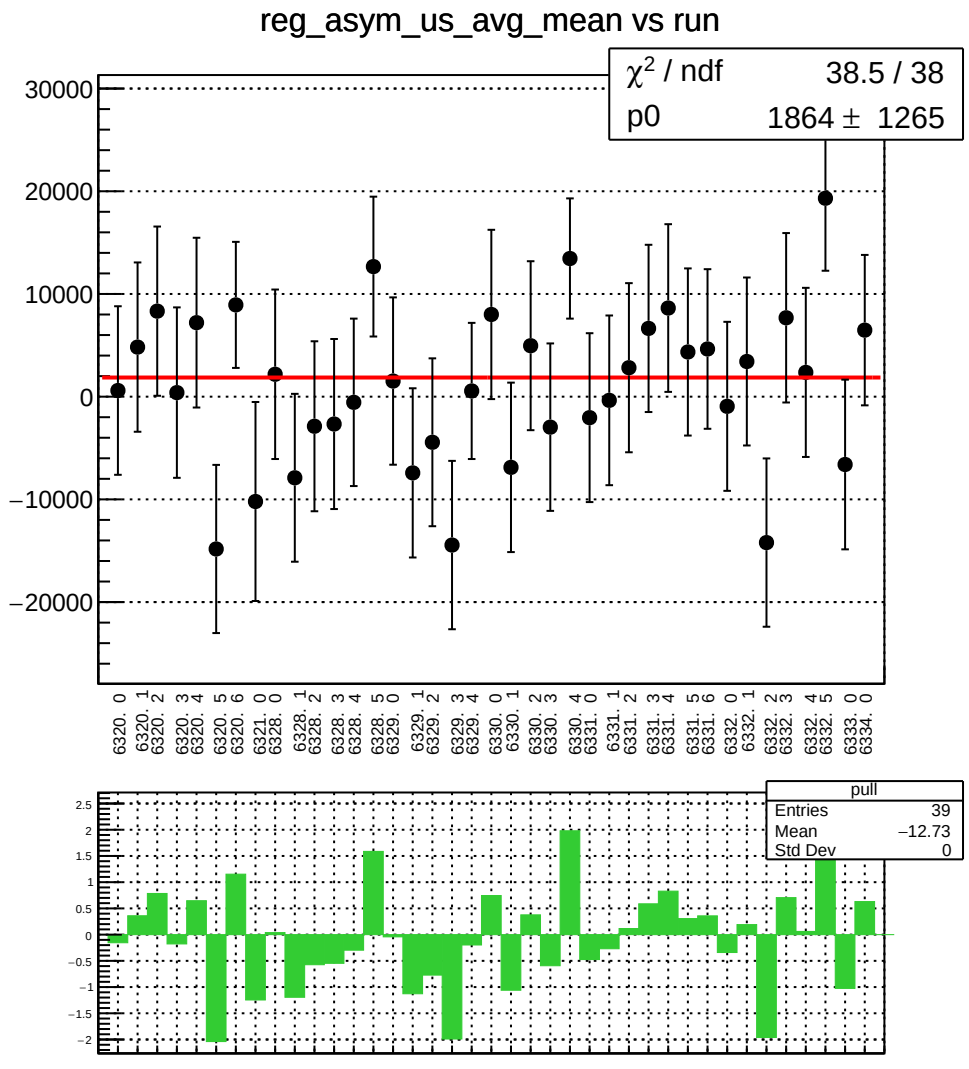
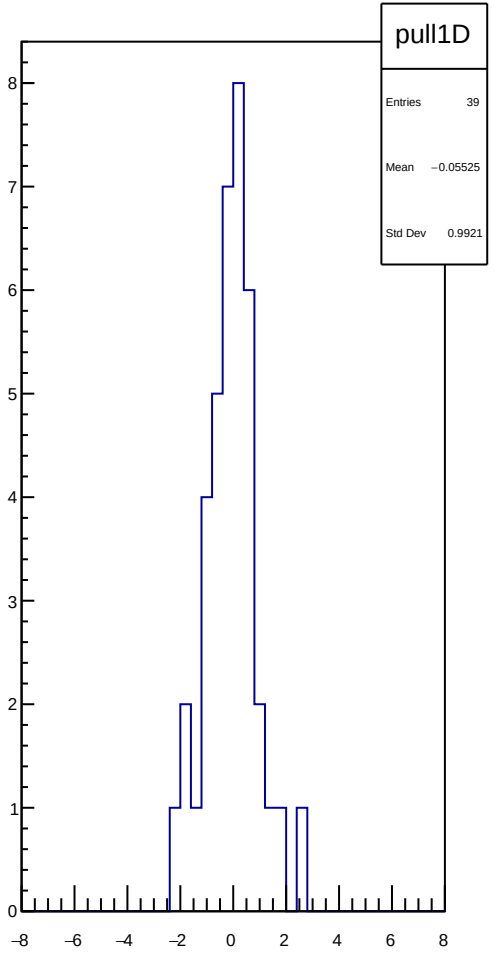
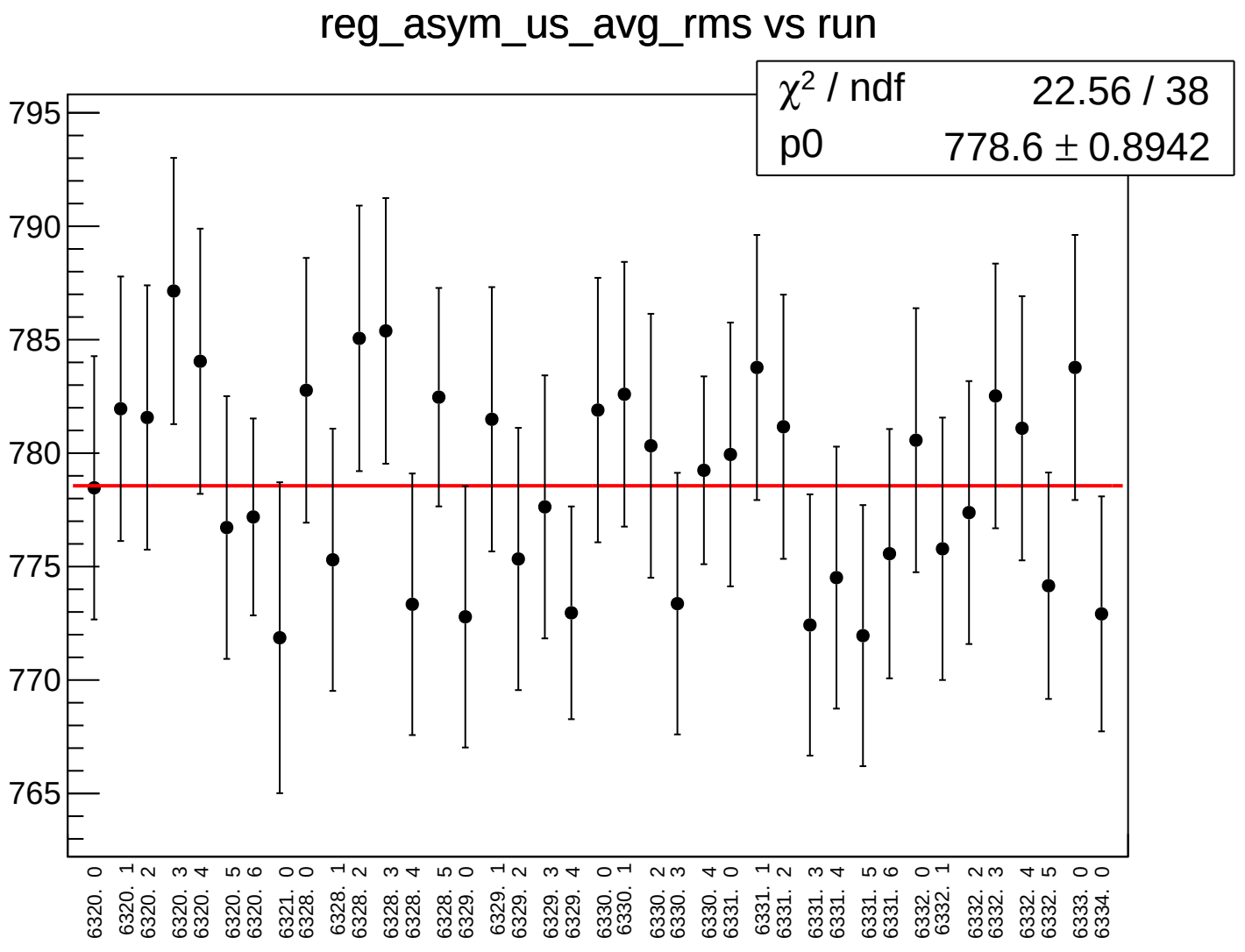
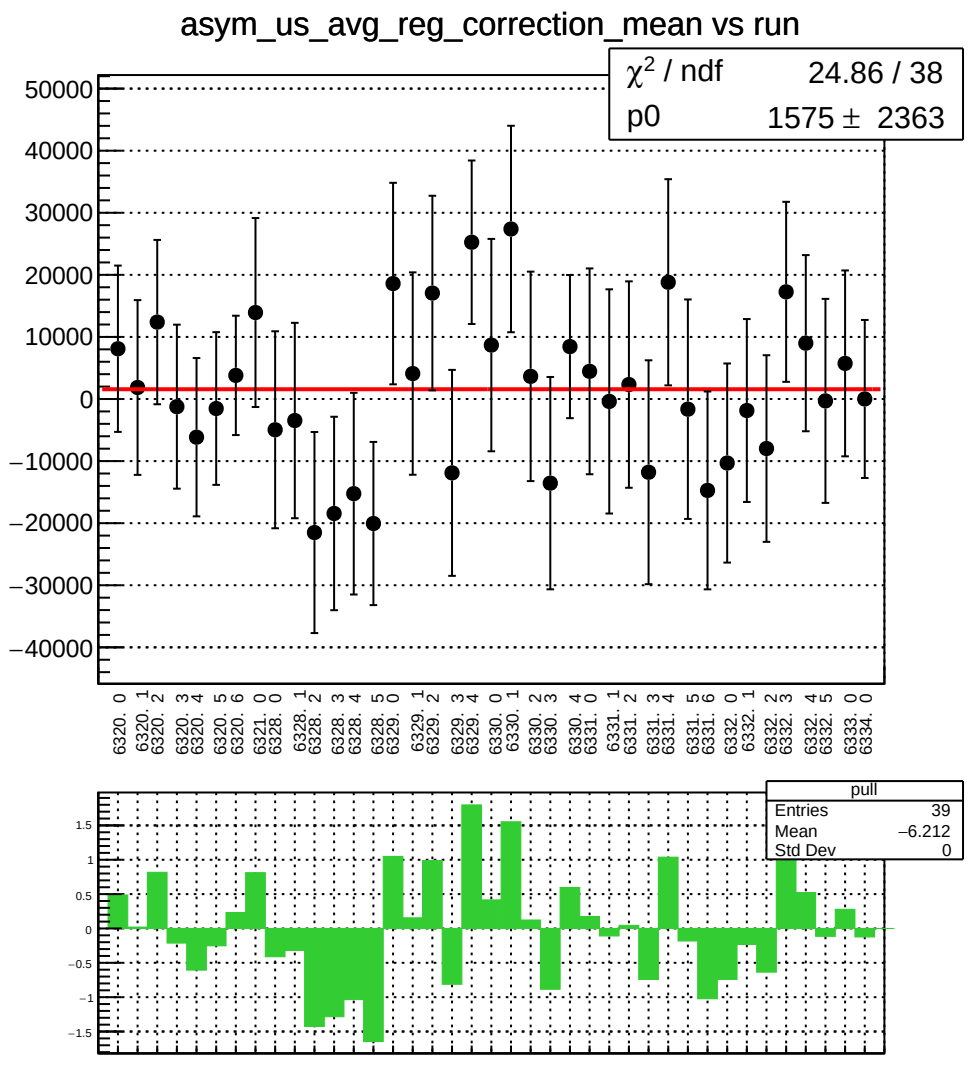
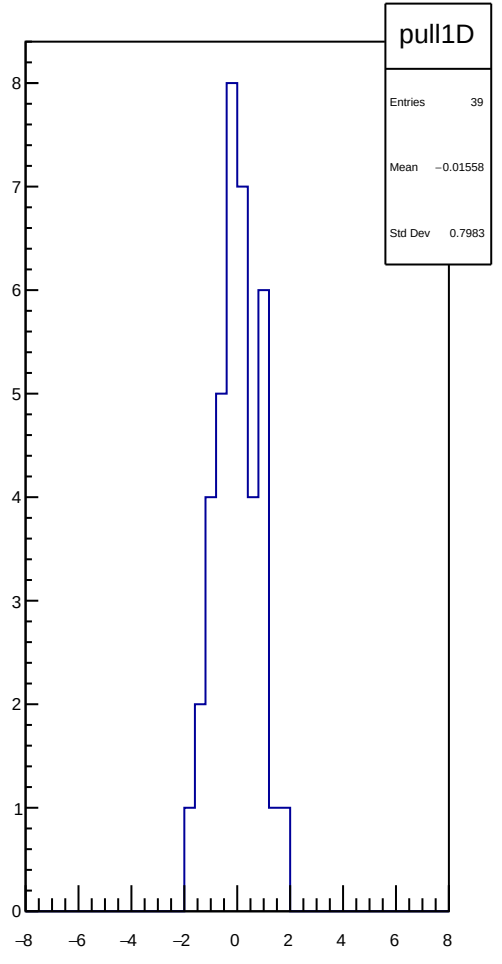
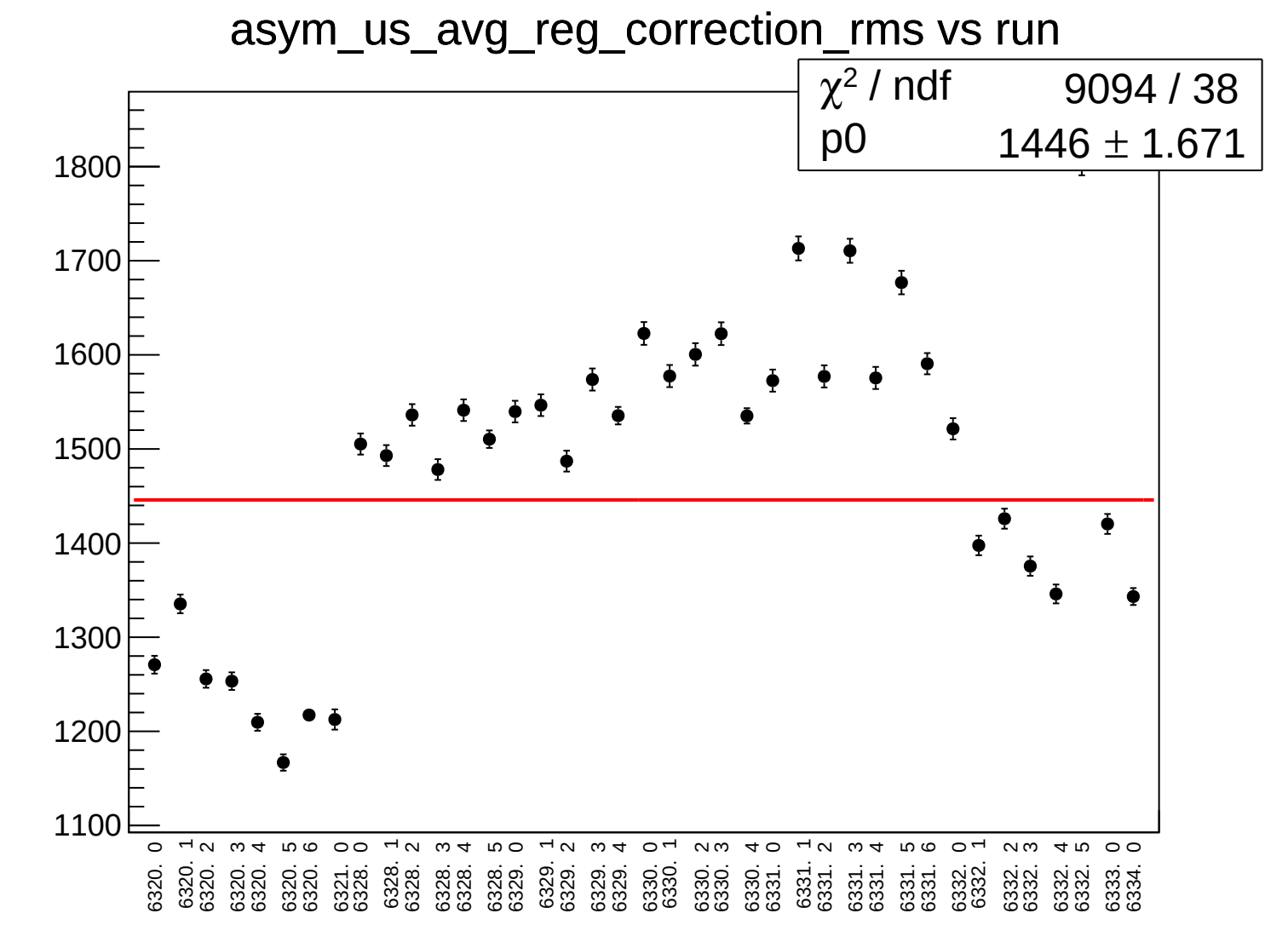

reg_asym_us_avg_mean vs run
χ² / ndf 38.5 / 38
p0 1864 ± 1265
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

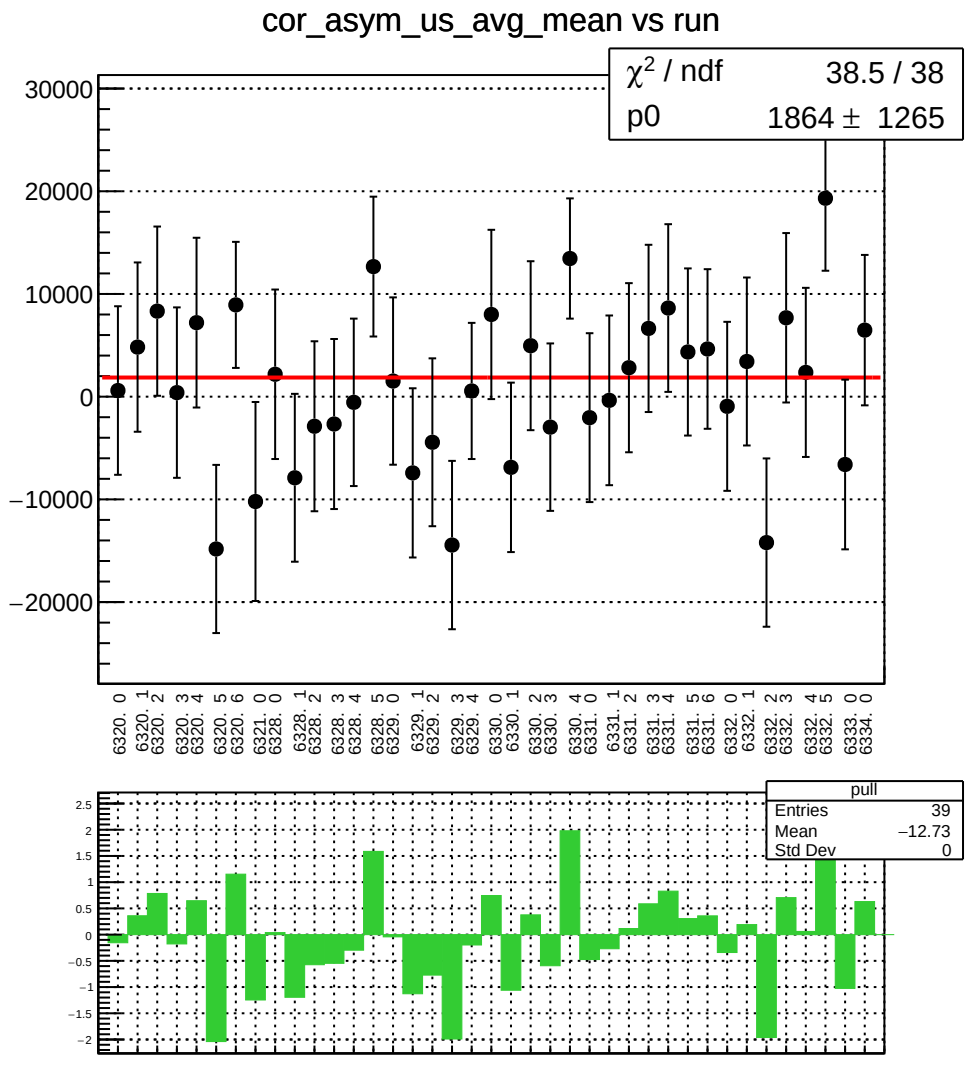

pull1D
Entries 39
Mean −0.05525
Std Dev 0.9921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

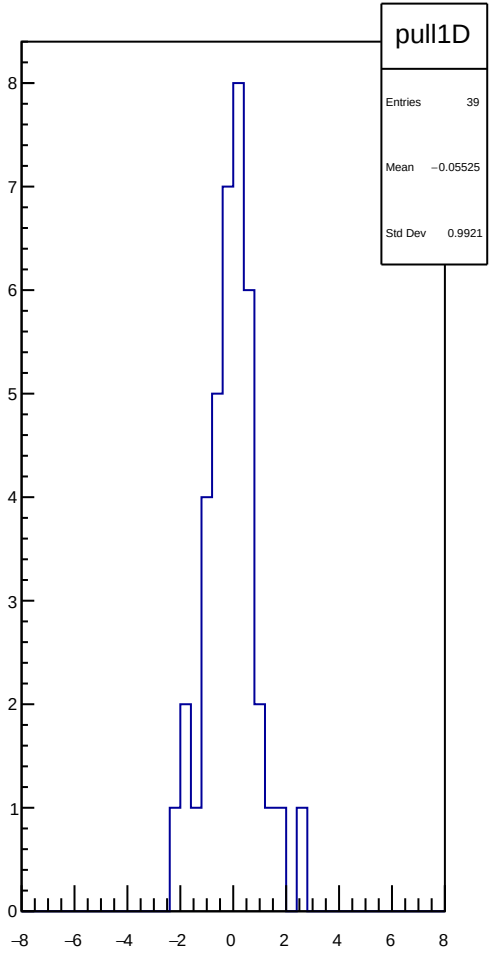

reg_asym_us_avg_rms vs run
χ² / ndf 22.56 / 38
p0 778.6 ± 0.8942
795
790
785
780
775
770
765
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_avg_reg_correction_mean vs run
χ² / ndf 24.86 / 38
p0 1575 ± 2363
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.212
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01558
Std Dev 0.7983
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 9094 / 38
p0 1446 ± 1.671
1800
1700
1600
1500
1400
1300
1200
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_us_avg_mean vs run
χ² / ndf 38.5 / 38
p0 1864 ± 1265
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.05525
Std Dev 0.9921
8
7
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−8
−6
−4
−2
0
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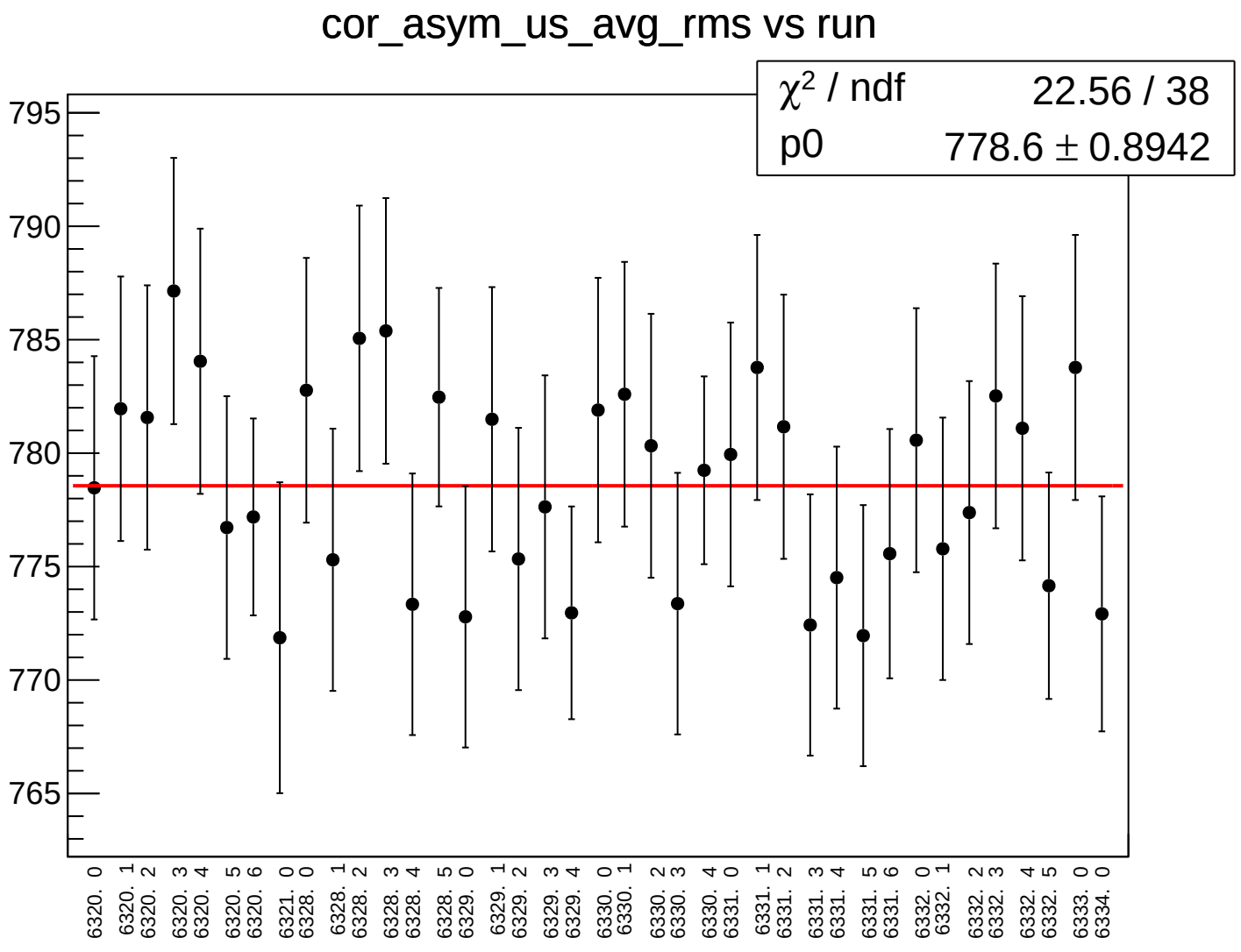
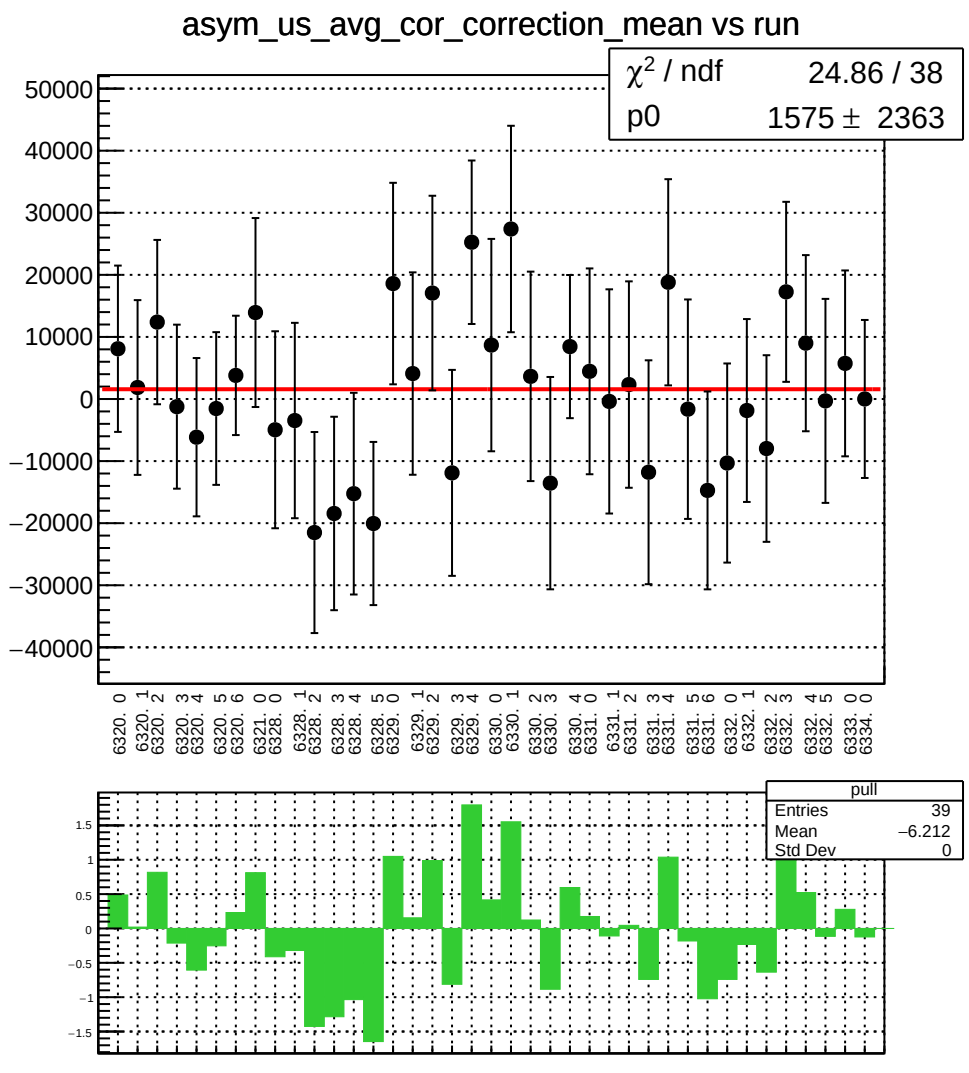
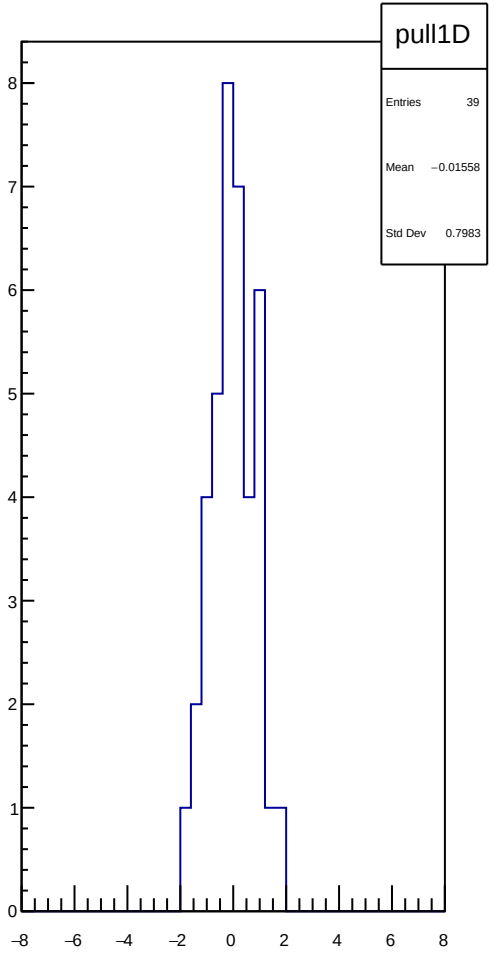
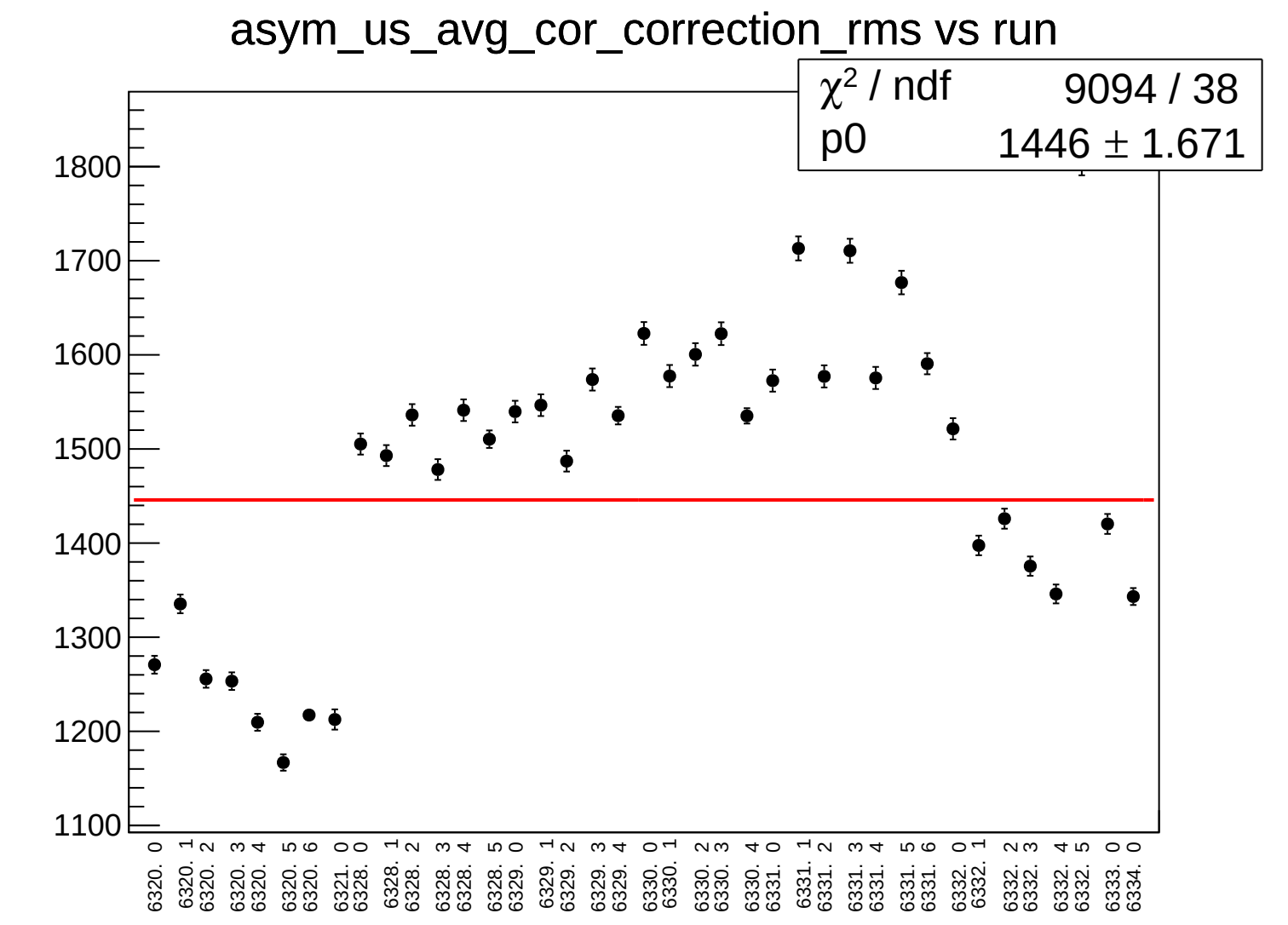
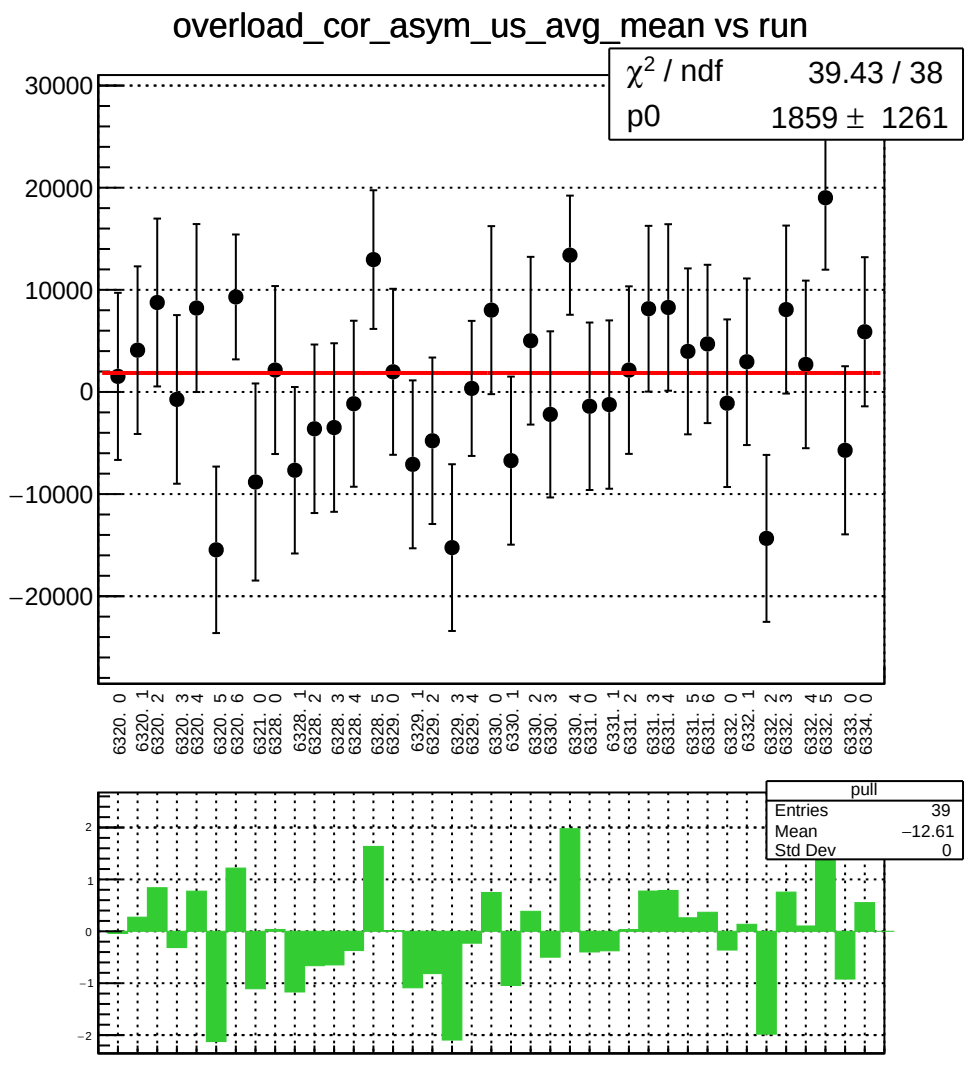
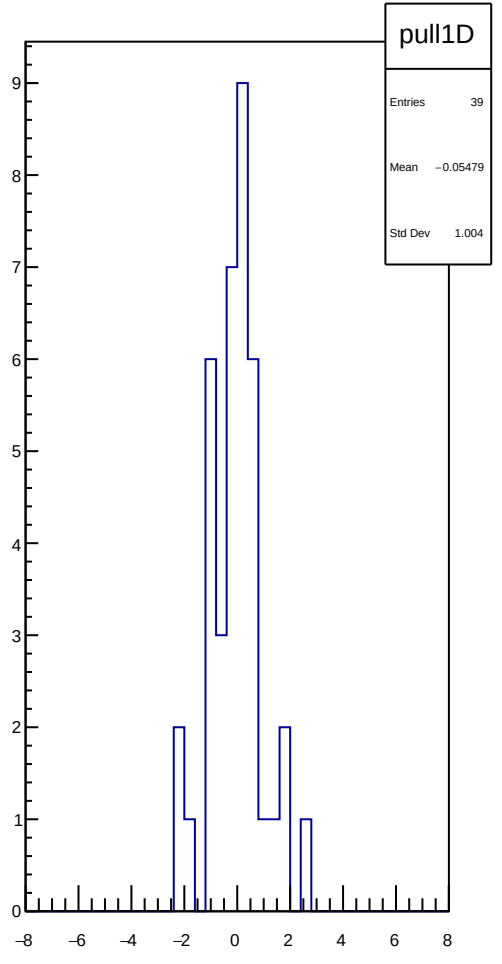

cor_asym_us_avg_rms vs run
χ² / ndf 22.56 / 38
p0 778.6 ± 0.8942
795
790
785
780
775
770
765
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

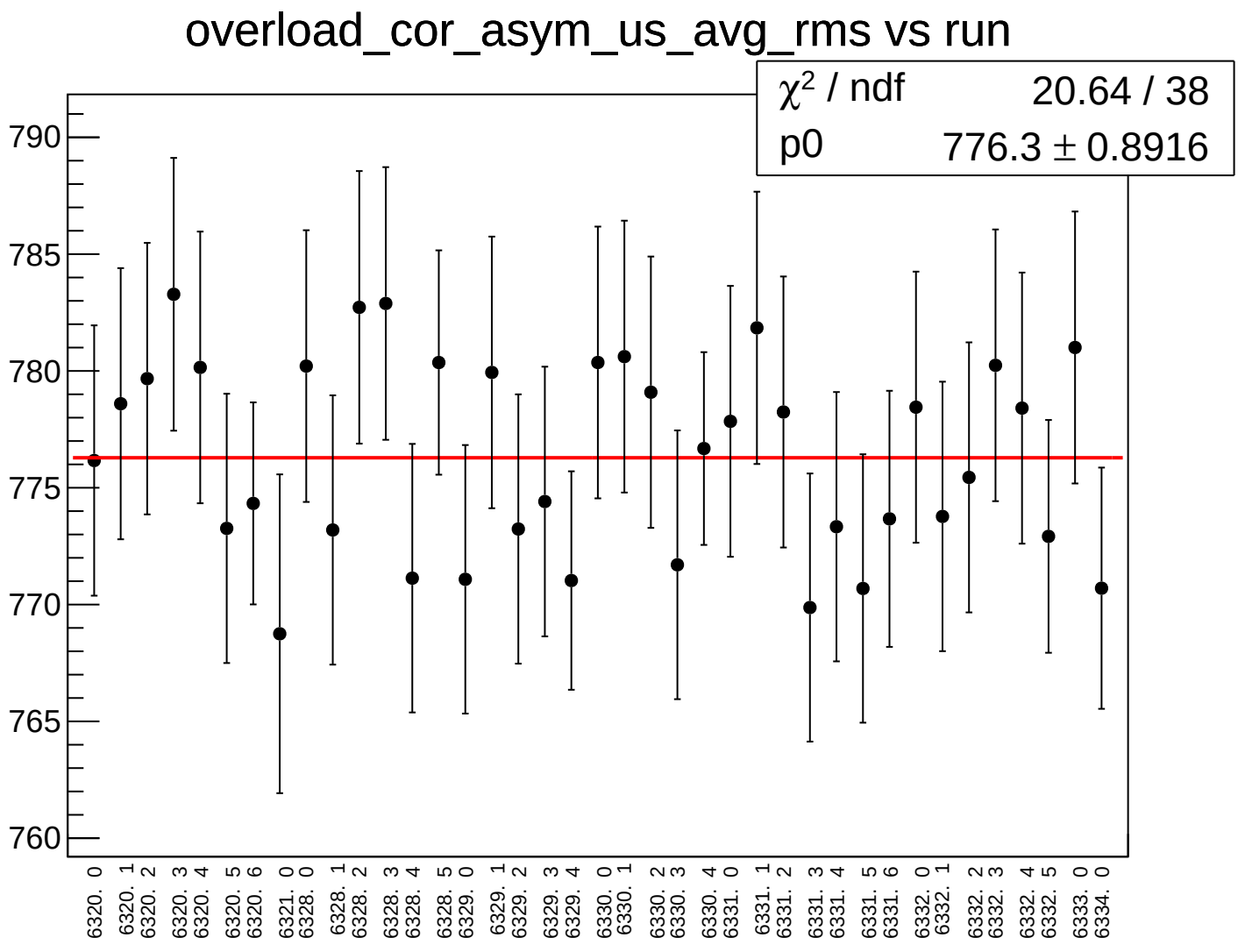

asym_us_avg_cor_correction_mean vs run
χ² / ndf 24.86 / 38
p0 1575 ± 2363
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.212
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

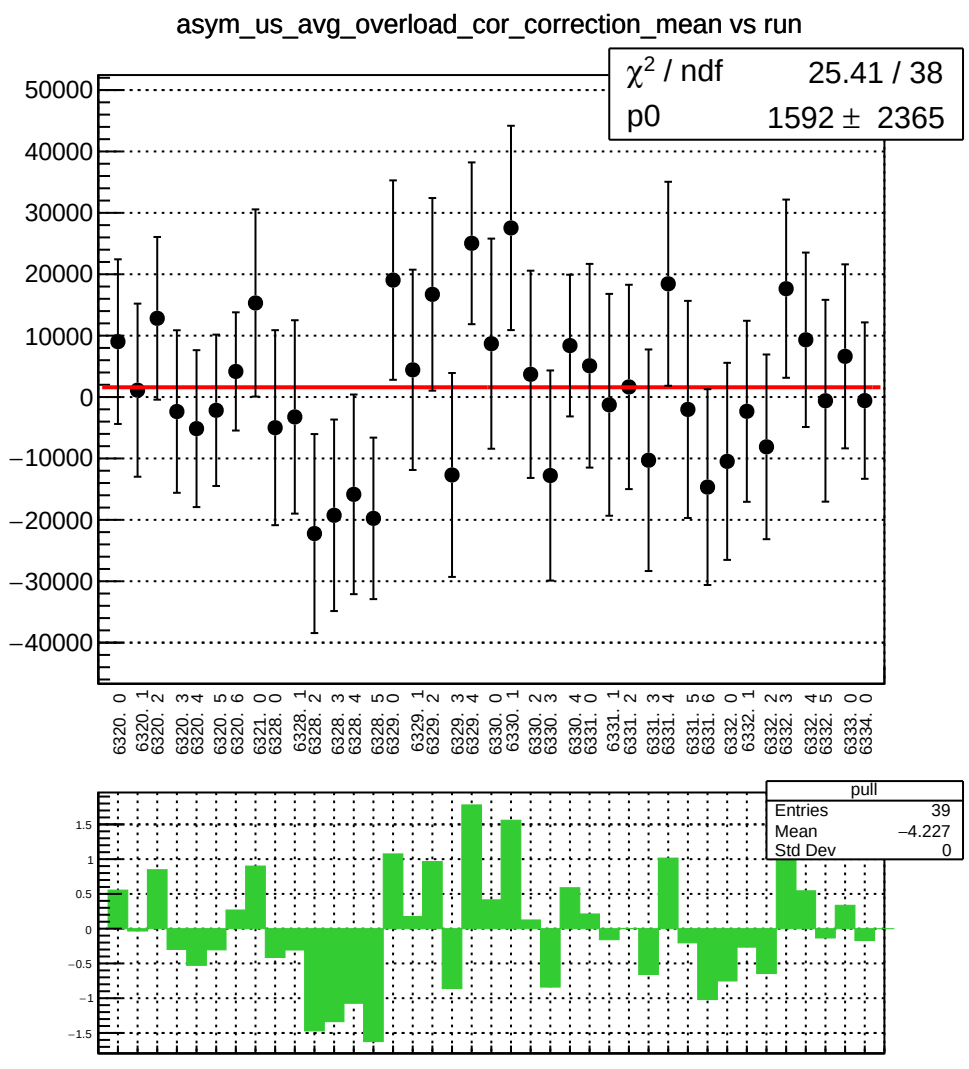

pull1D
Entries 39
Mean −0.01558
Std Dev 0.7983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

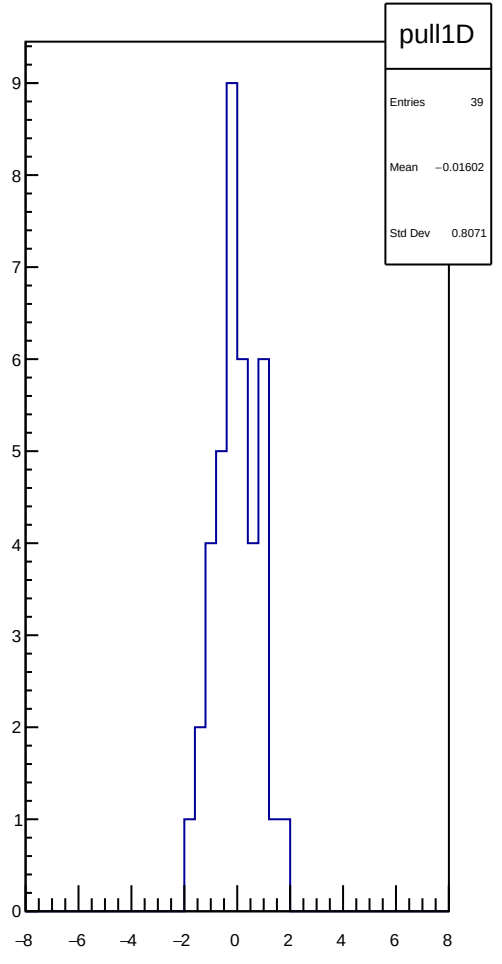

asym_us_avg_cor_correction_rms vs run
χ² / ndf 9094 / 38
p0 1446 ± 1.671
1800
1700
1600
1500
1400
1300
1200
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

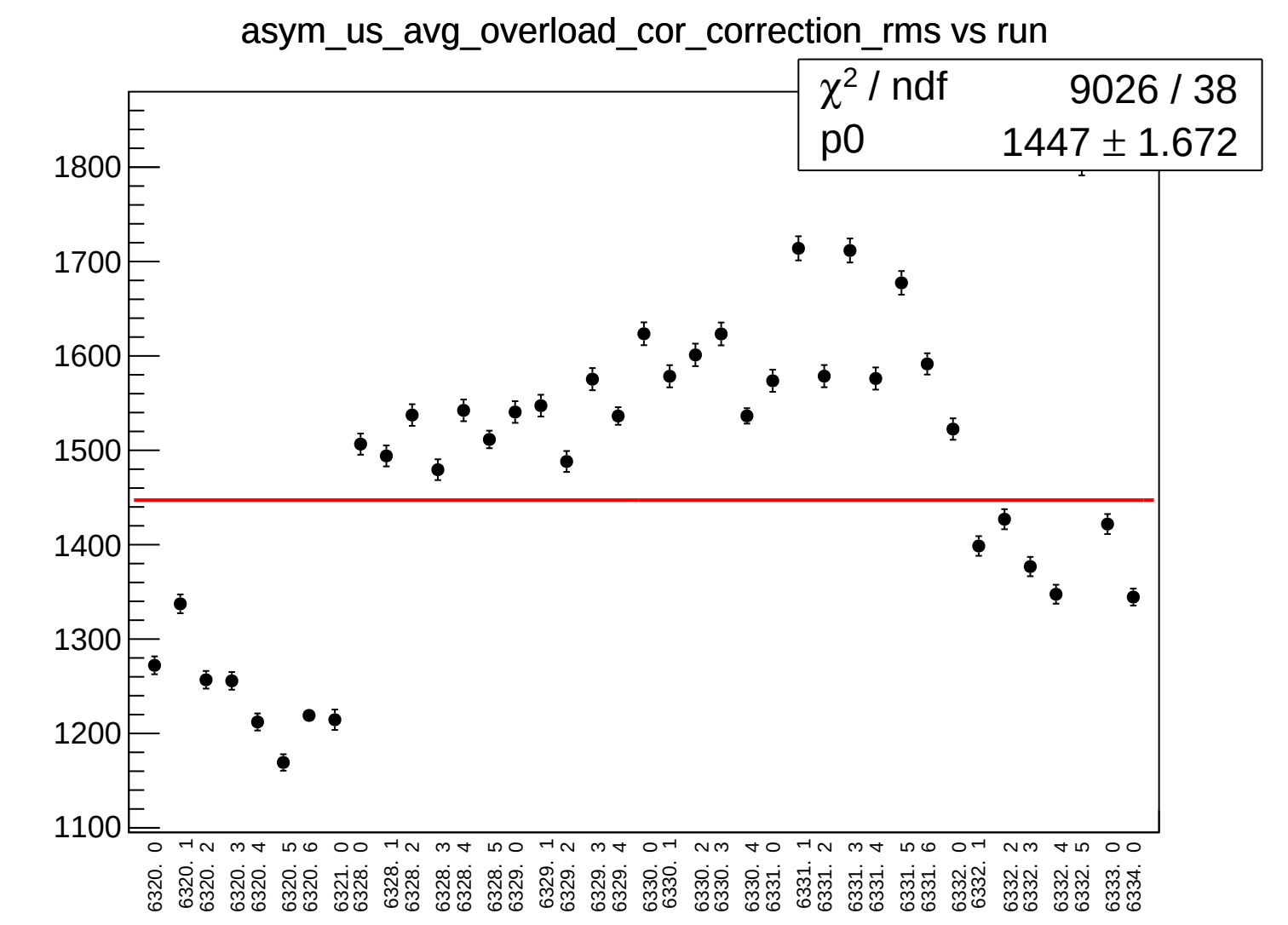

overload_cor_asym_us_avg_mean vs run
χ² / ndf 39.43 / 38
p0 1859 ± 1261
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.61
Std Dev 0
2
1
0
−1
−2

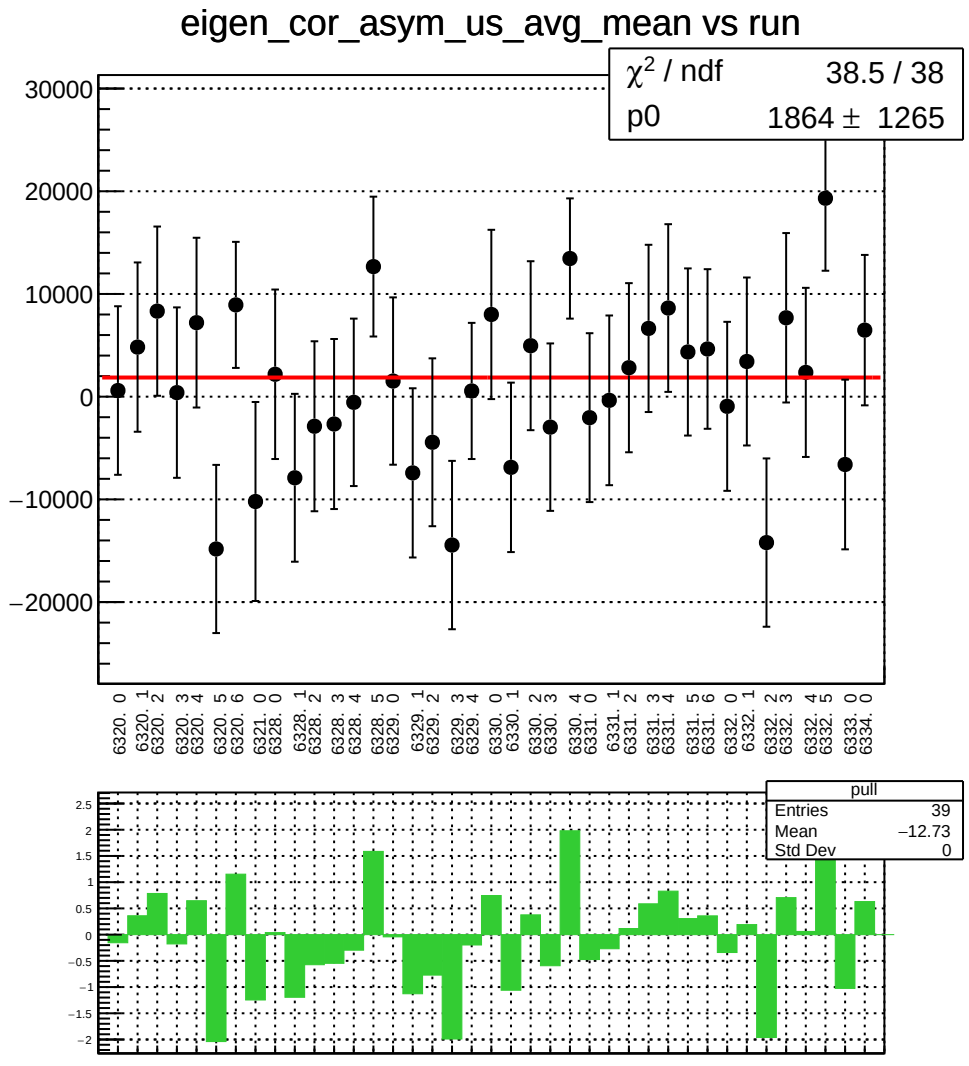

pull1D
Entries 39
Mean −0.05479
Std Dev 1.004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

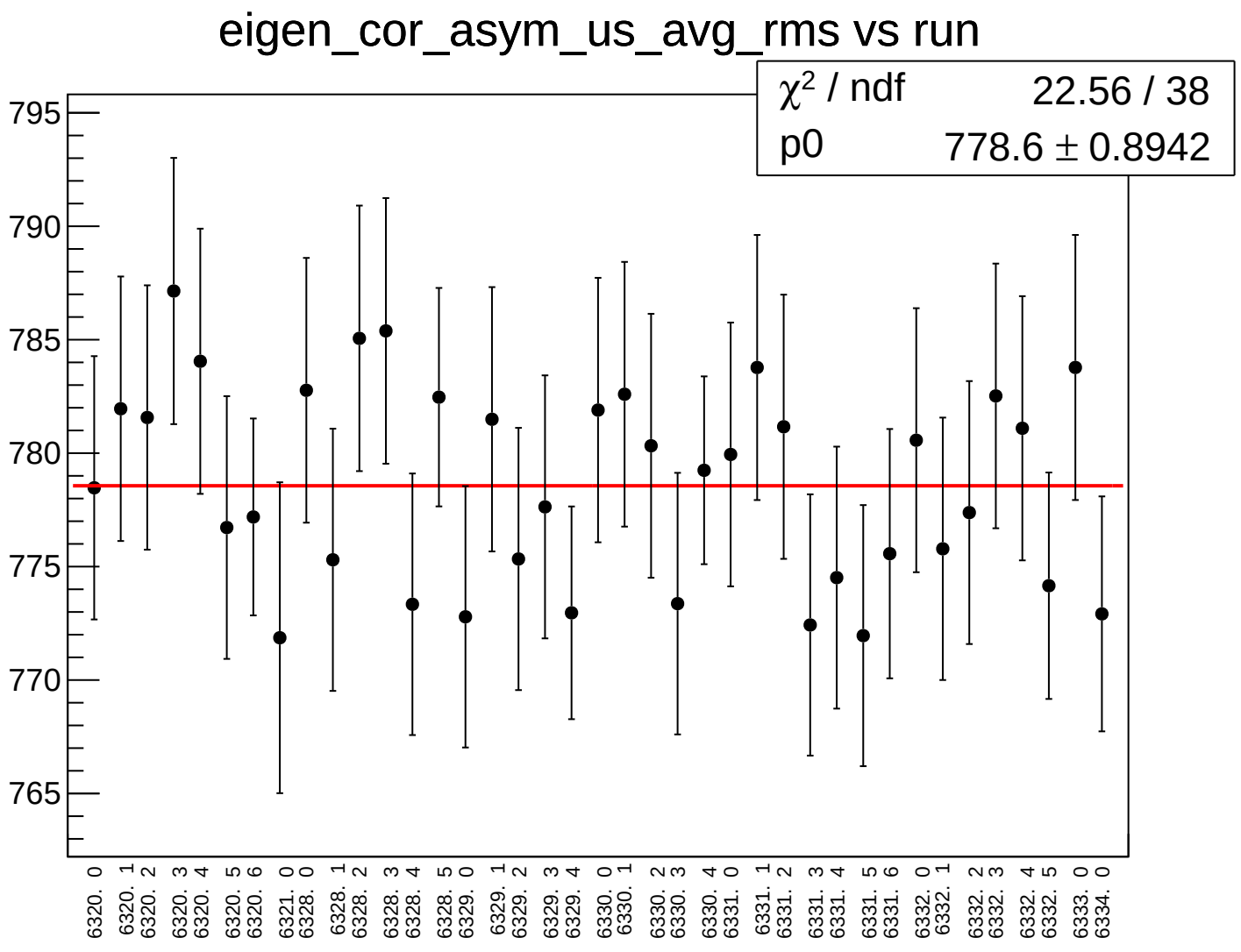

overload_cor_asym_us_avg_rms vs run
χ² / ndf 20.64 / 38
p0 776.3 ± 0.8916
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 25.41 / 38
p0 1592 ± 2365
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.227
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01602
Std Dev 0.8071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 9026 / 38
p0 1447 ± 1.672
1800
1700
1600
1500
1400
1300
1200
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 38.5 / 38
p0 1864 ± 1265
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.05525
Std Dev 0.9921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 22.56 / 38
p0 778.6 ± 0.8942
795
790
785
780
775
770
765
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
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6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
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6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
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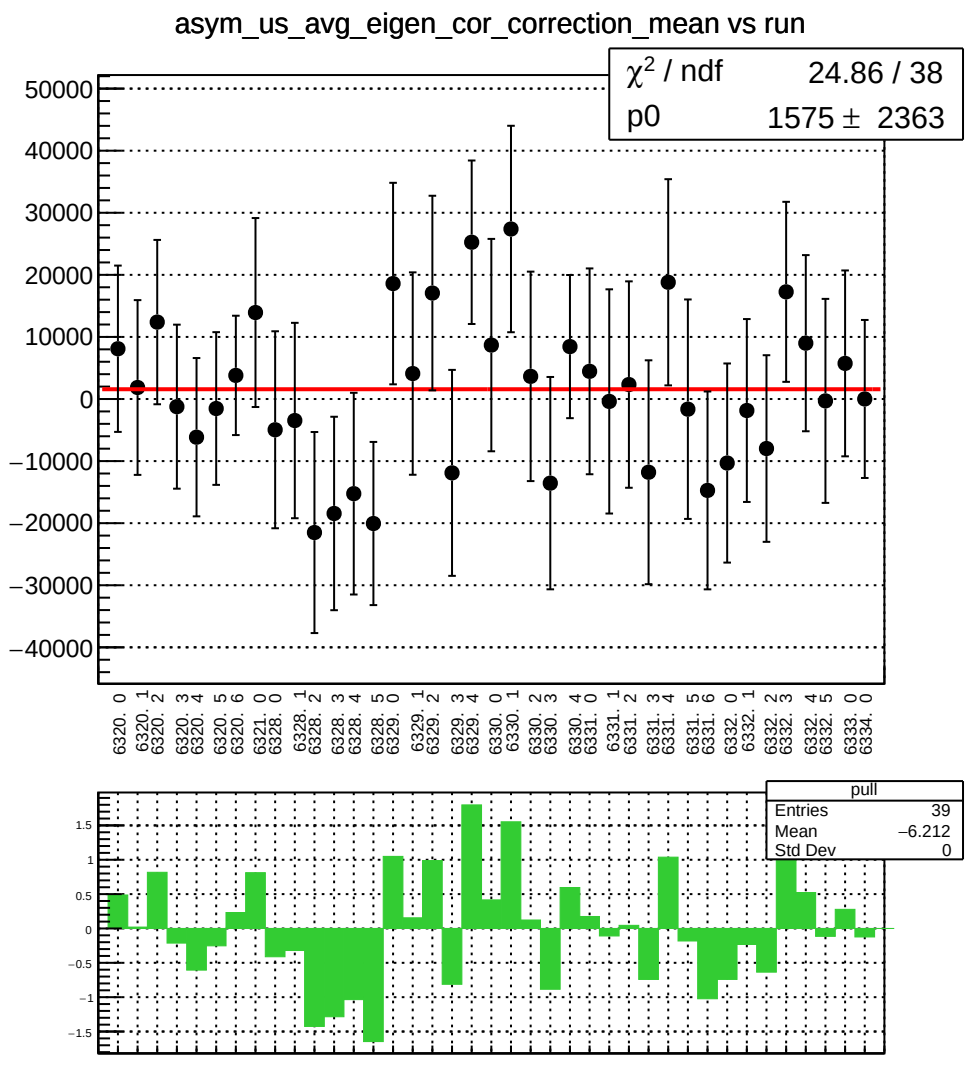
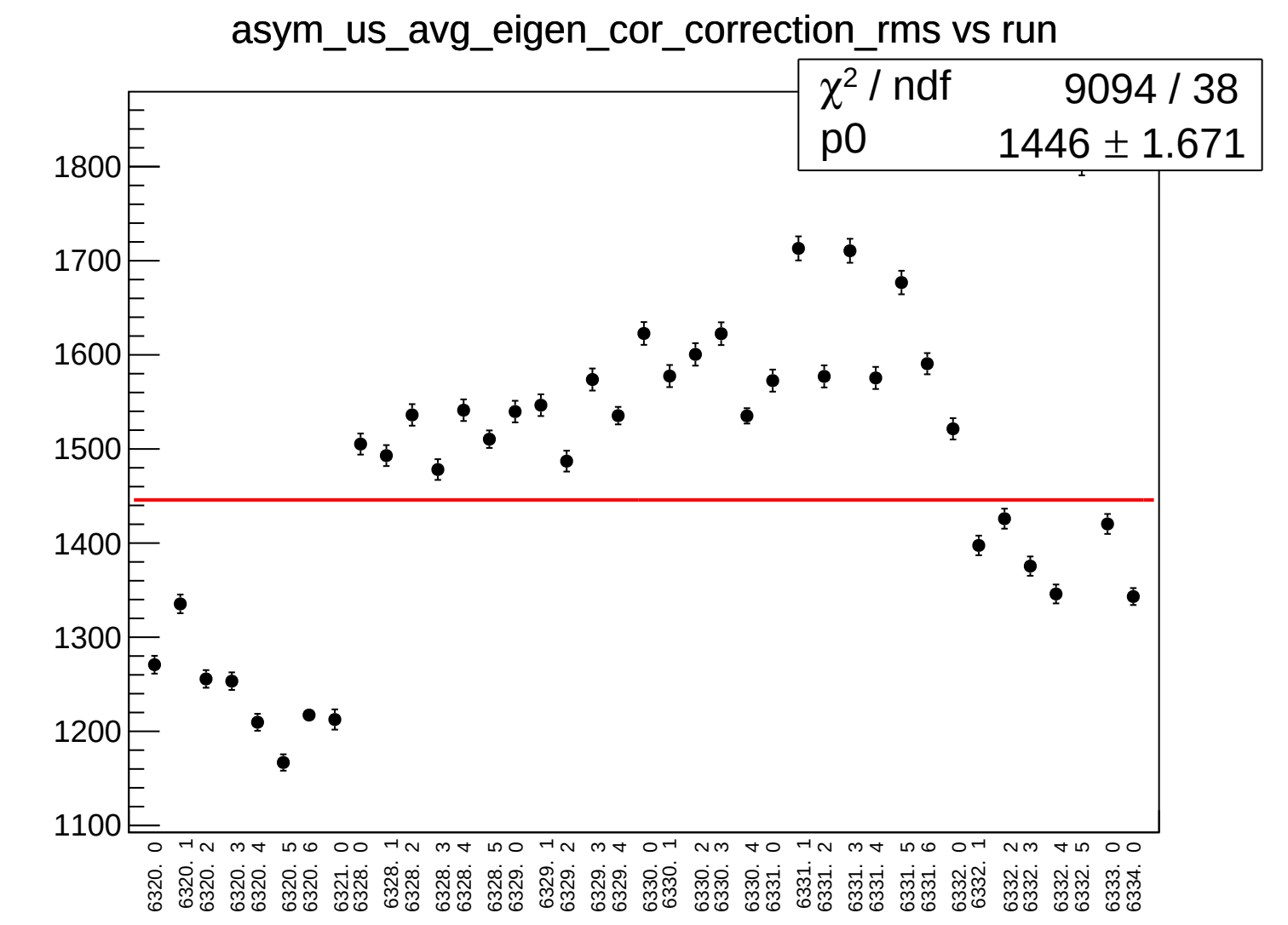
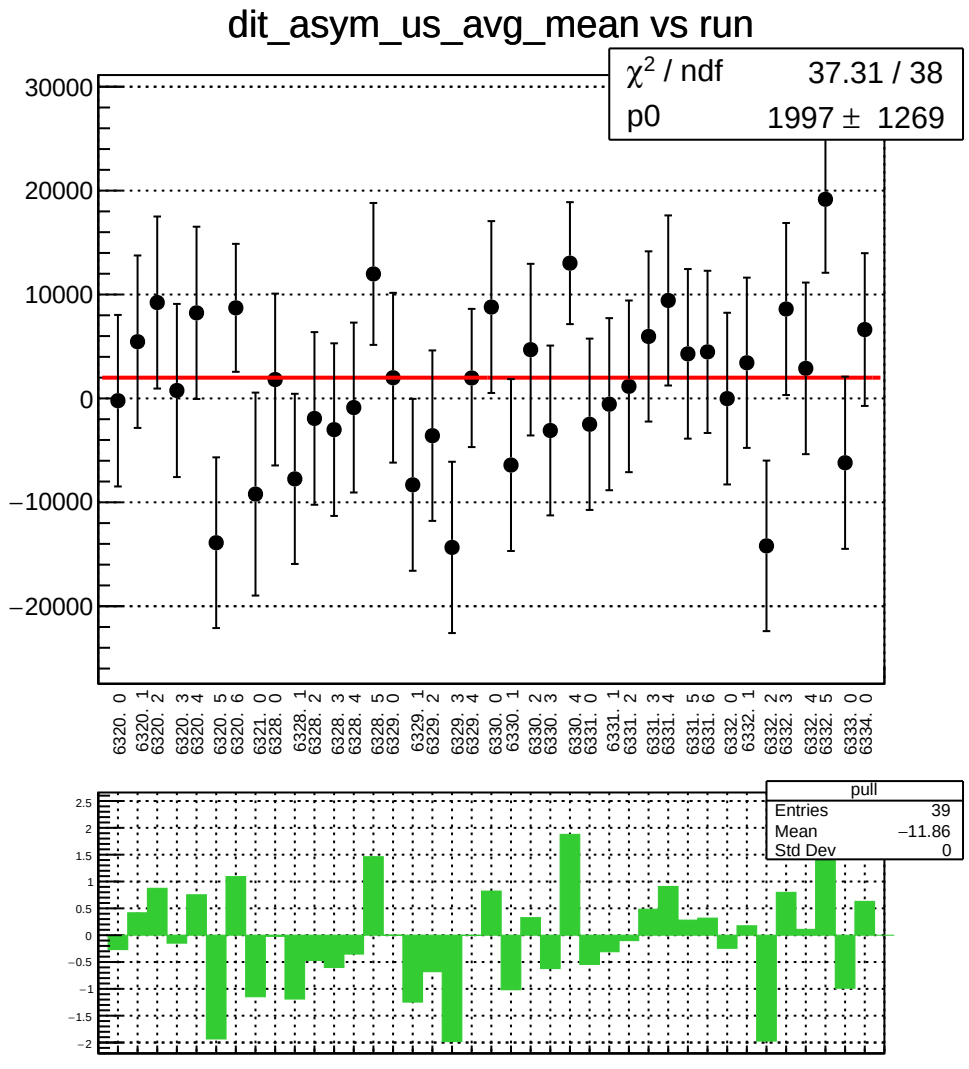
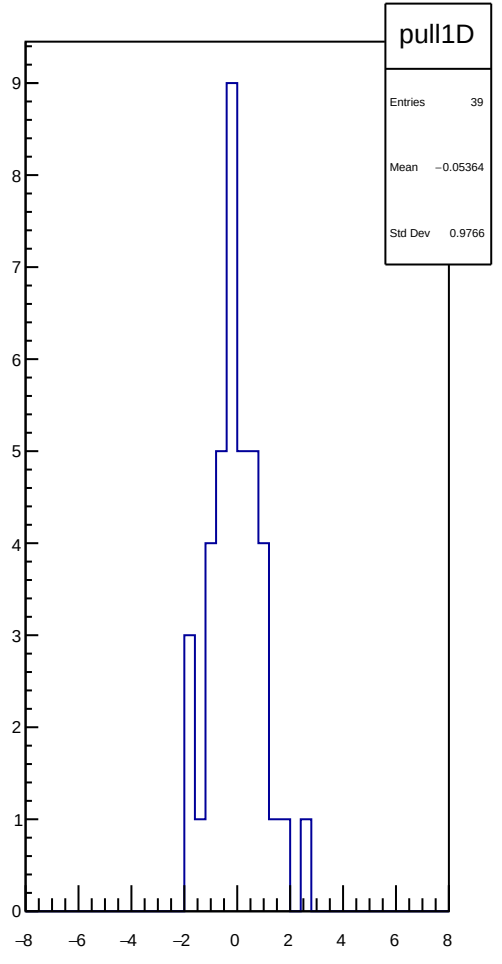
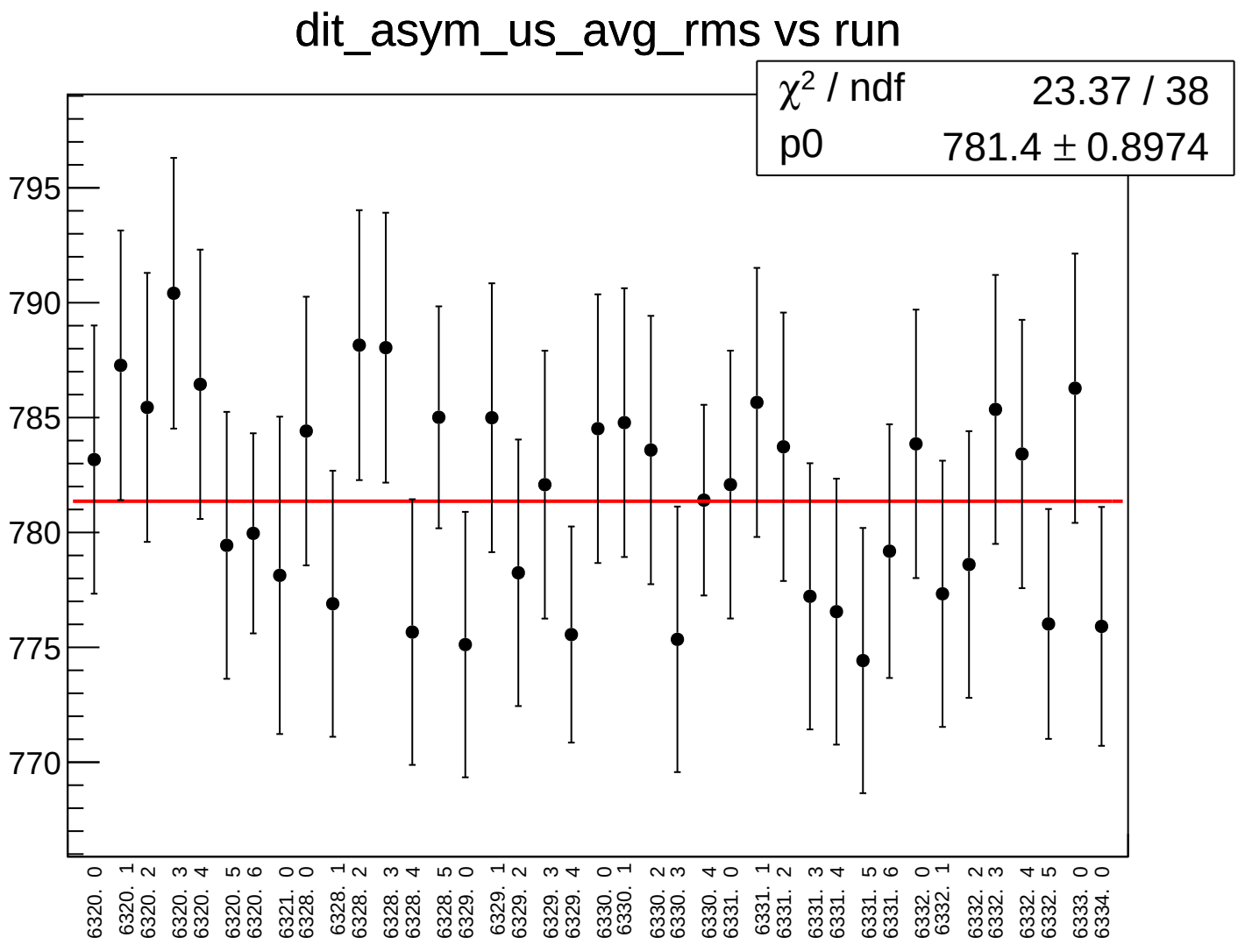
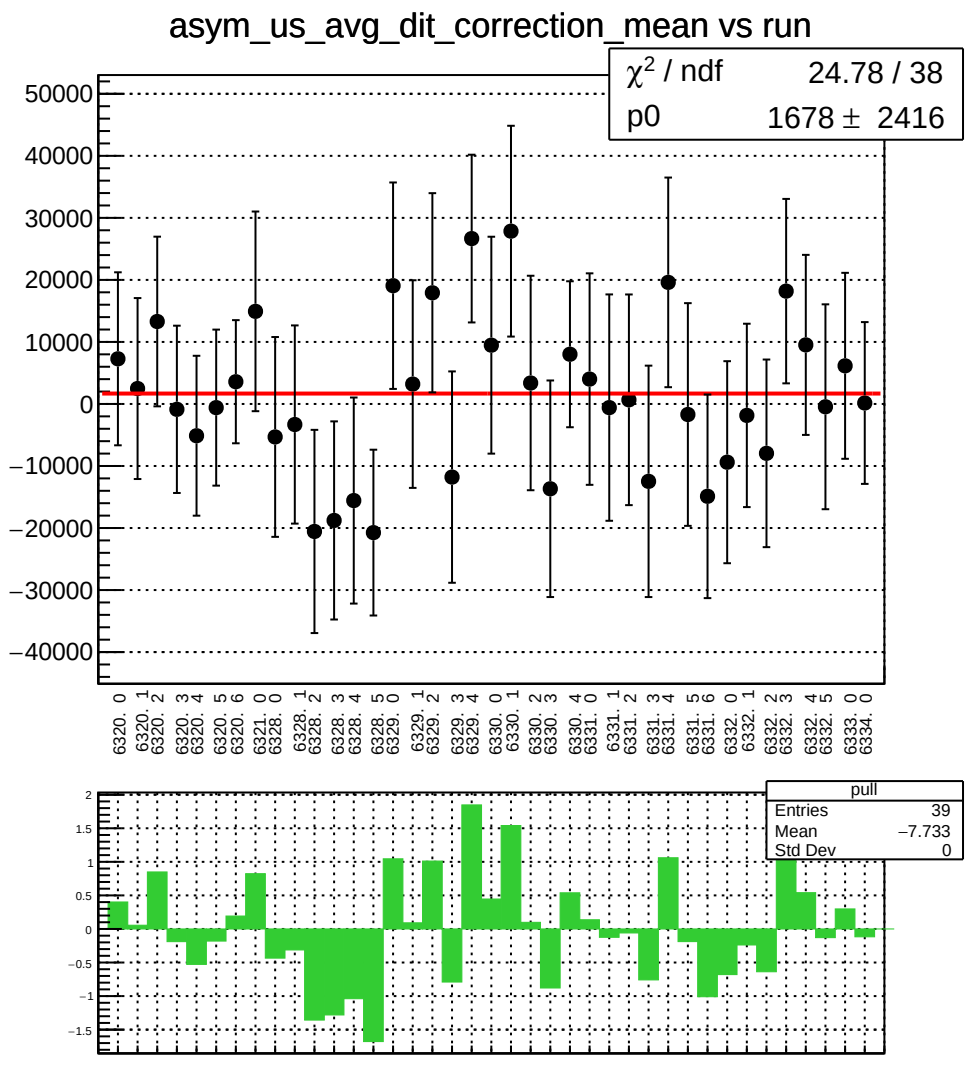

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 24.86 / 38
p0 1575 ± 2363
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.212
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01558
Std Dev 0.7983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

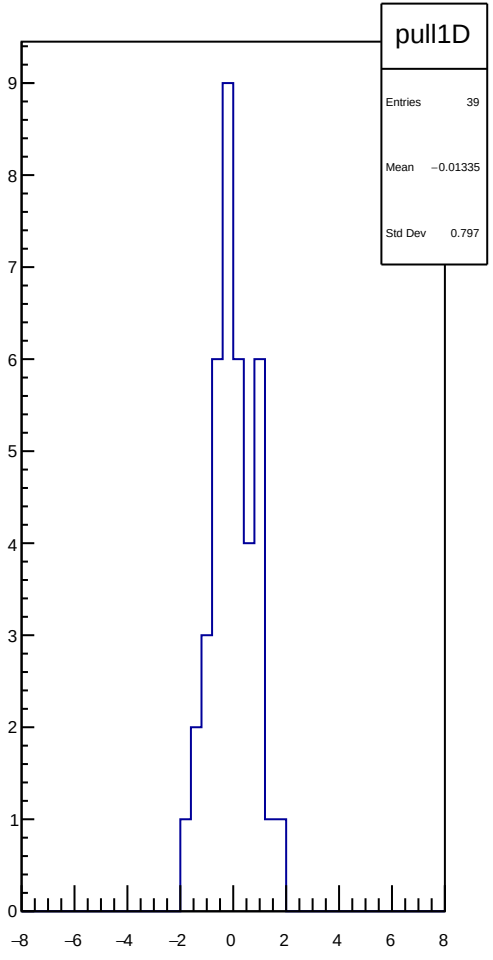

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 9094 / 38
p0 1446 ± 1.671
1800
1700
1600
1500
1400
1300
1200
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

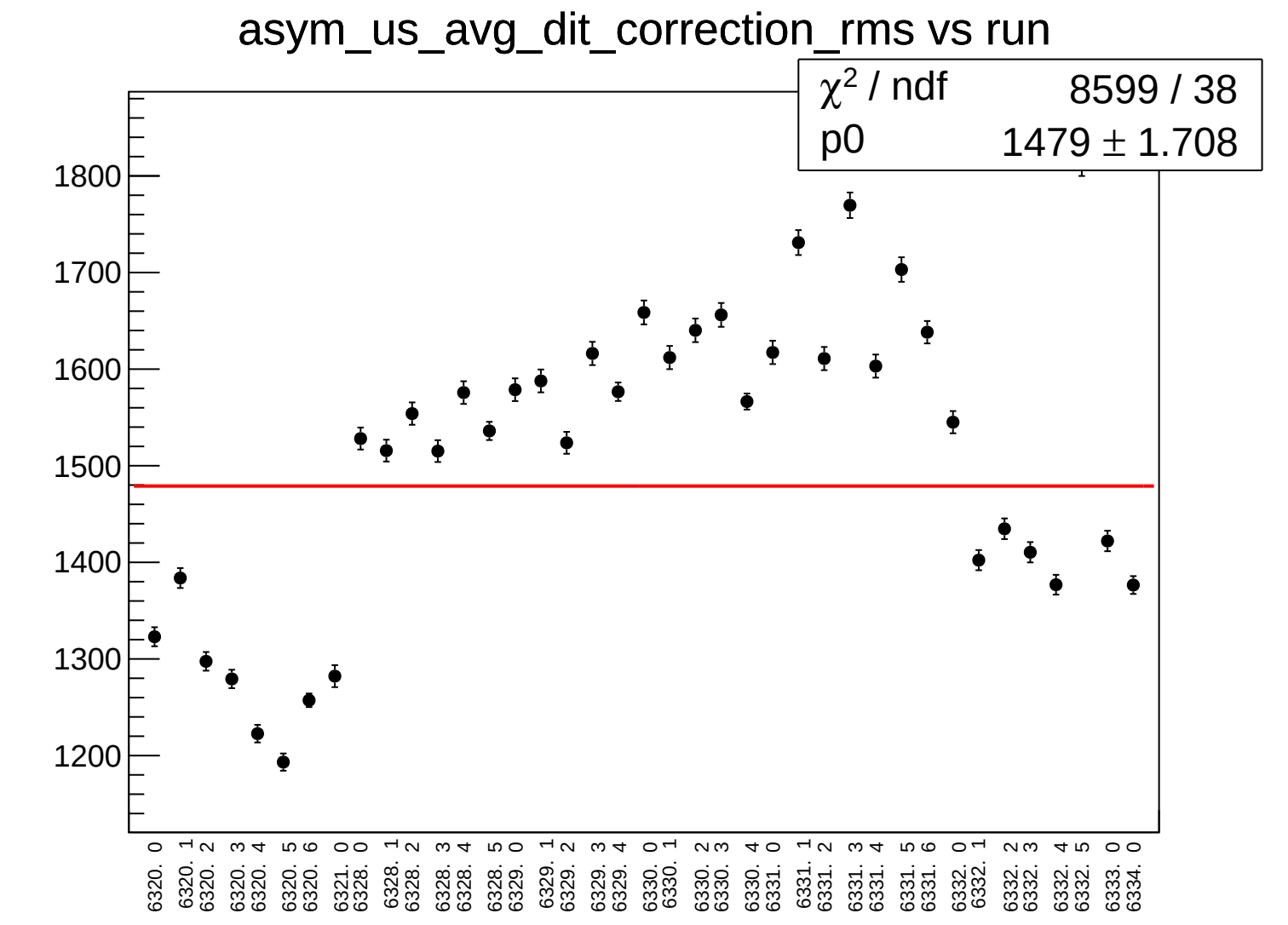

dit_asym_us_avg_mean vs run
χ² / ndf 37.31 / 38
p0 1997 ± 1269
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

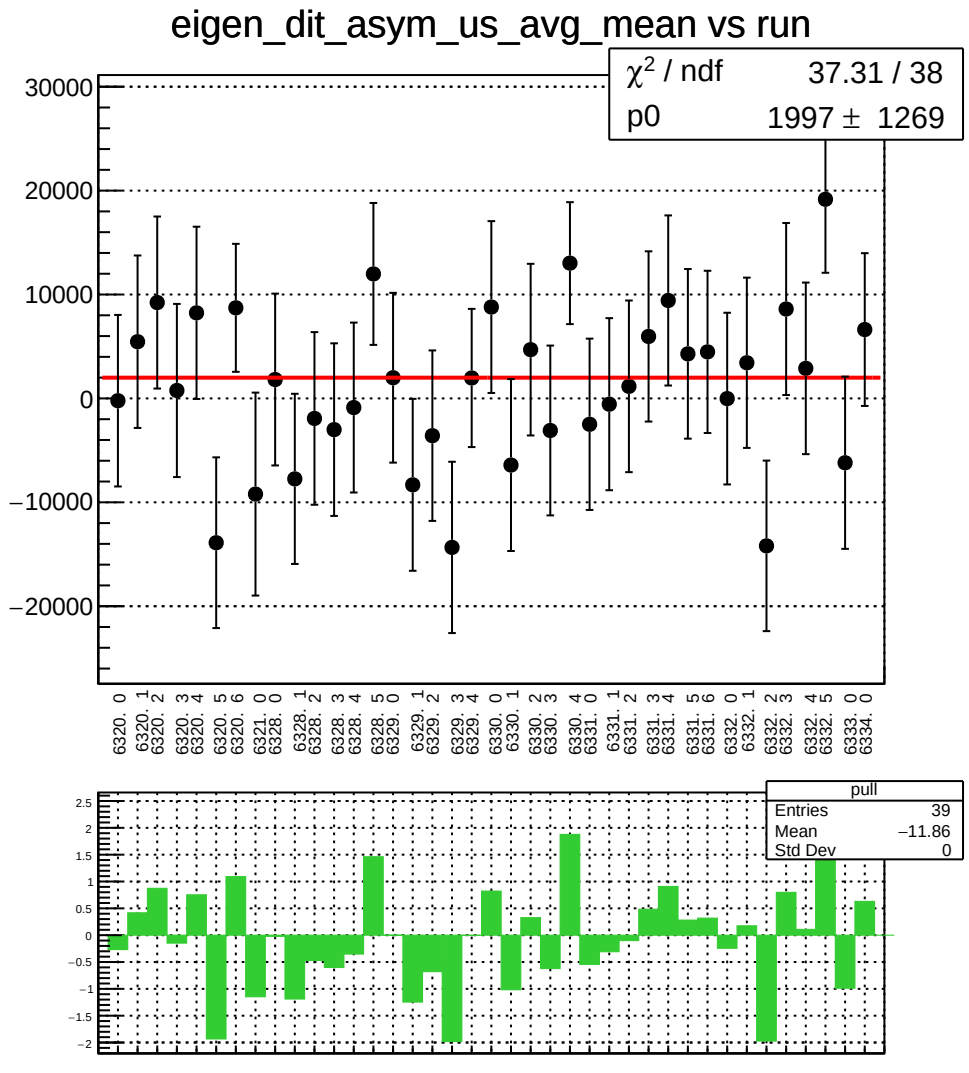

pull1D
Entries 39
Mean −0.05364
Std Dev 0.9766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

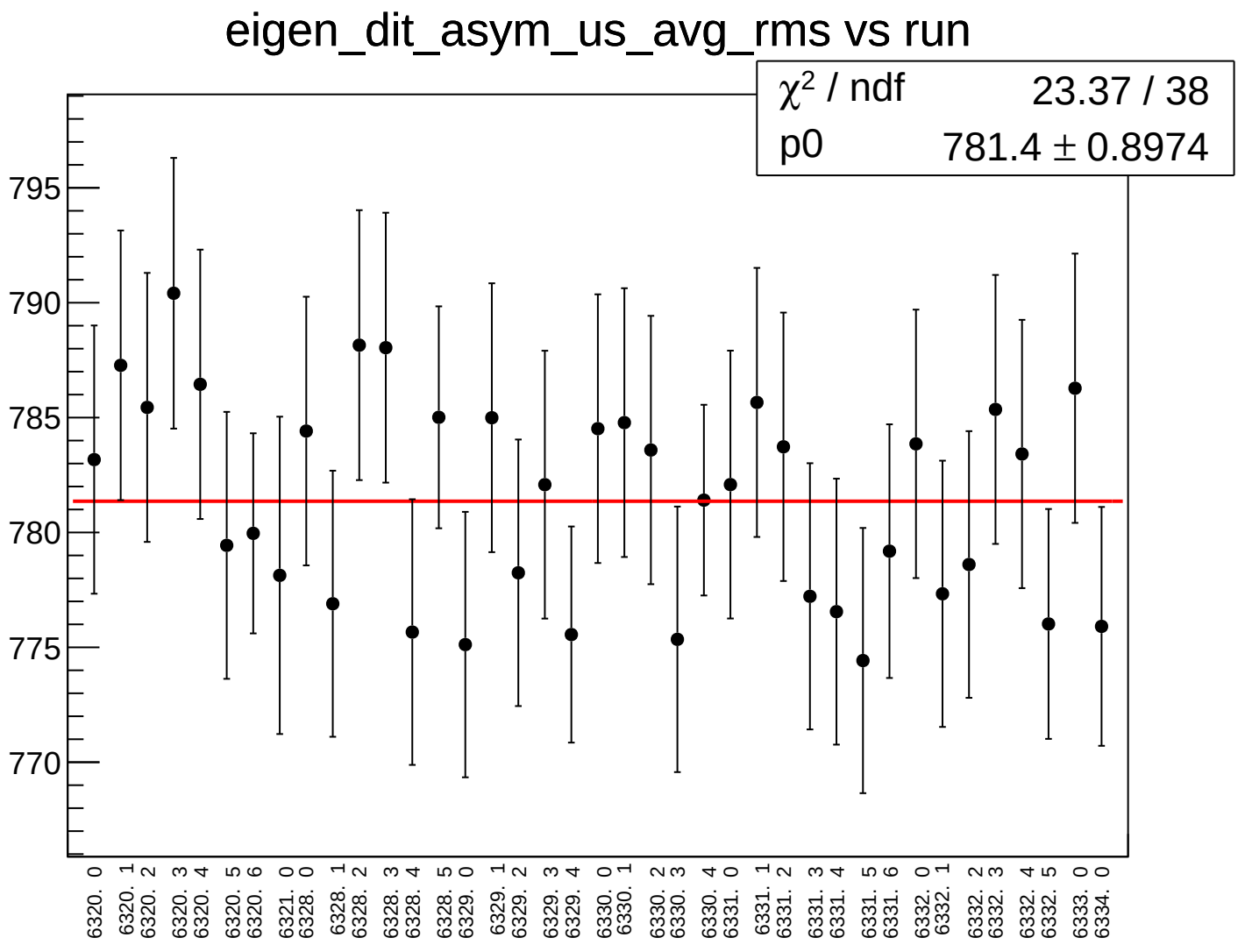

dit_asym_us_avg_rms vs run
χ² / ndf 23.37 / 38
p0 781.4 ± 0.8974
795
790
785
780
775
770
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

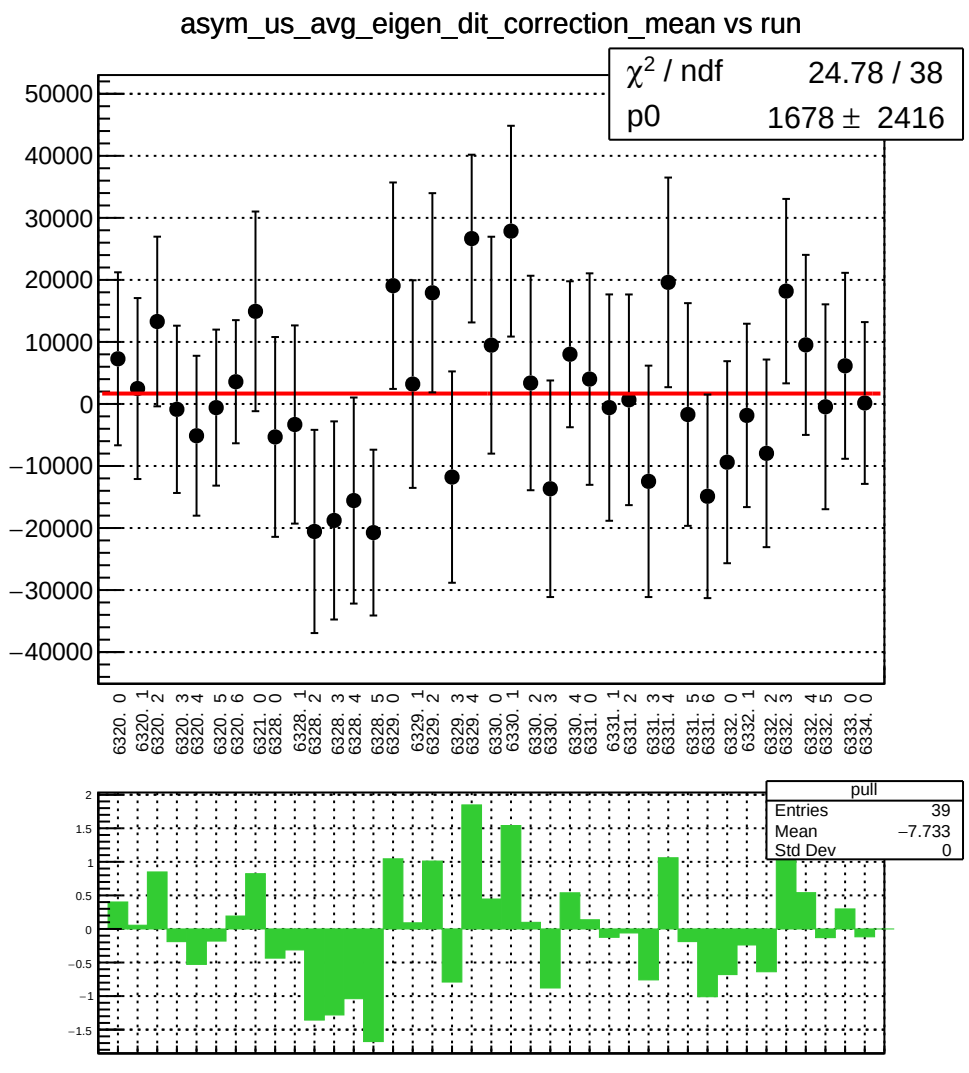

asym_us_avg_dit_correction_mean vs run
χ² / ndf 24.78 / 38
p0 1678 ± 2416
pull
Entries 39
Mean −7.733
Std Dev 0

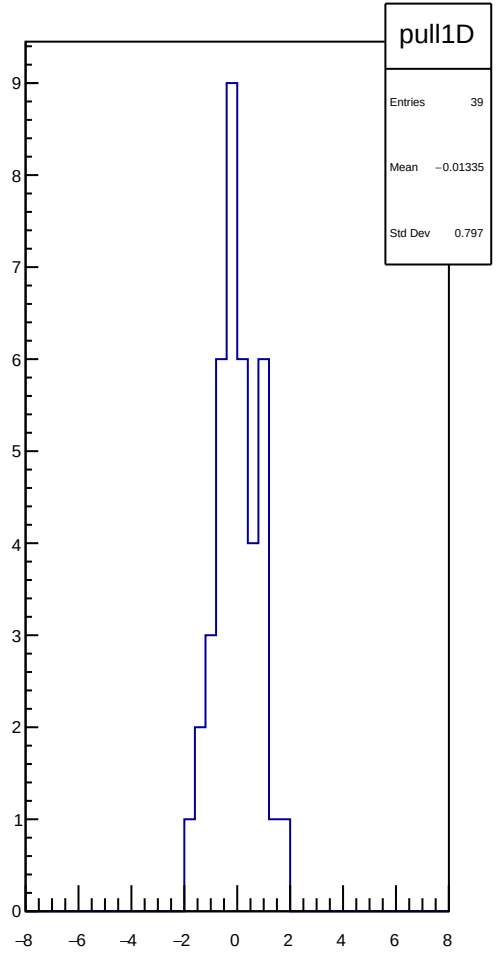

pull1D
Entries 39
Mean −0.01335
Std Dev 0.797

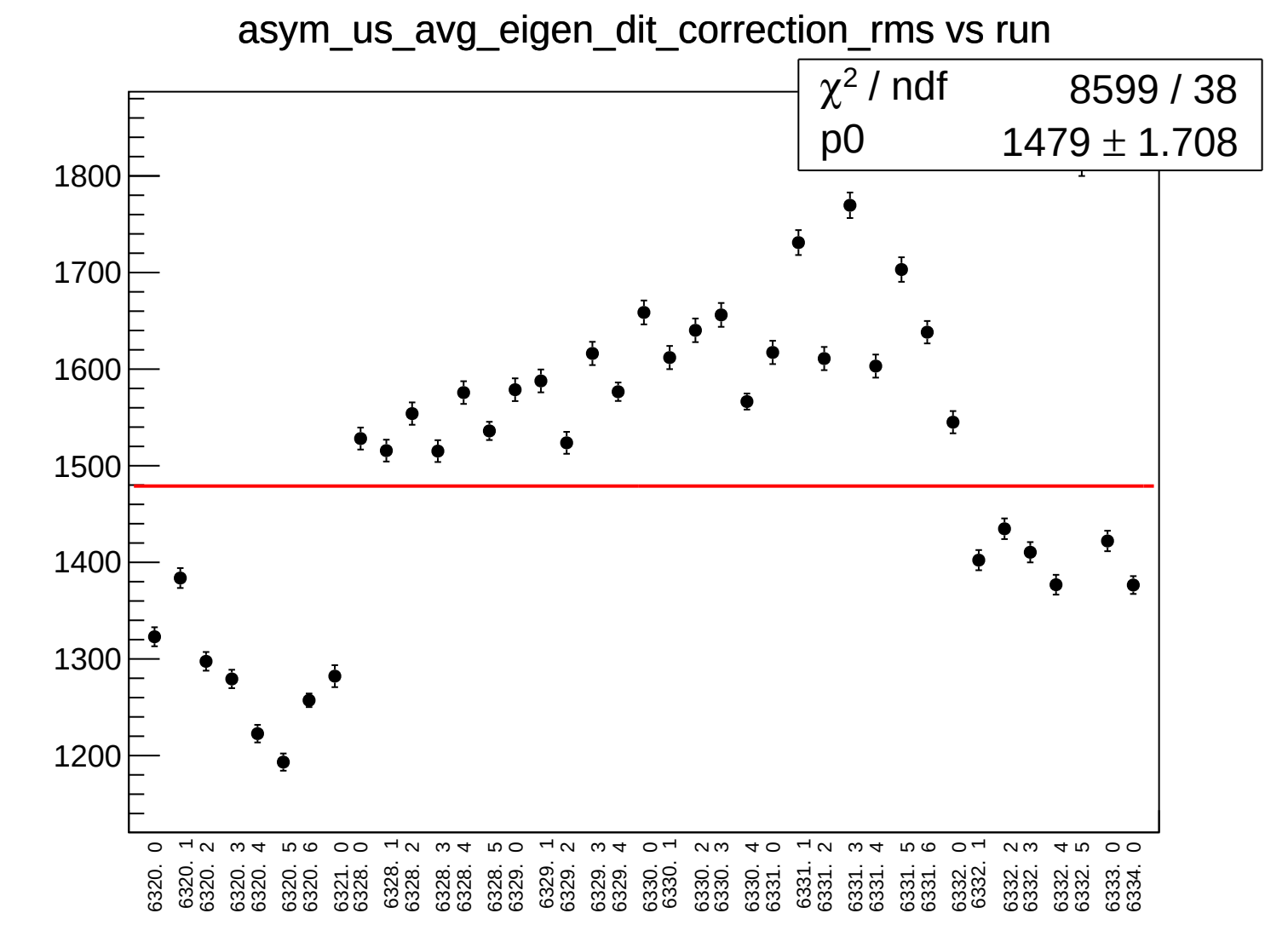

asym_us_avg_dit_correction_rms vs run
χ² / ndf 8599 / 38
p0 1479 ± 1.708
1800
1700
1600
1500
1400
1300
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

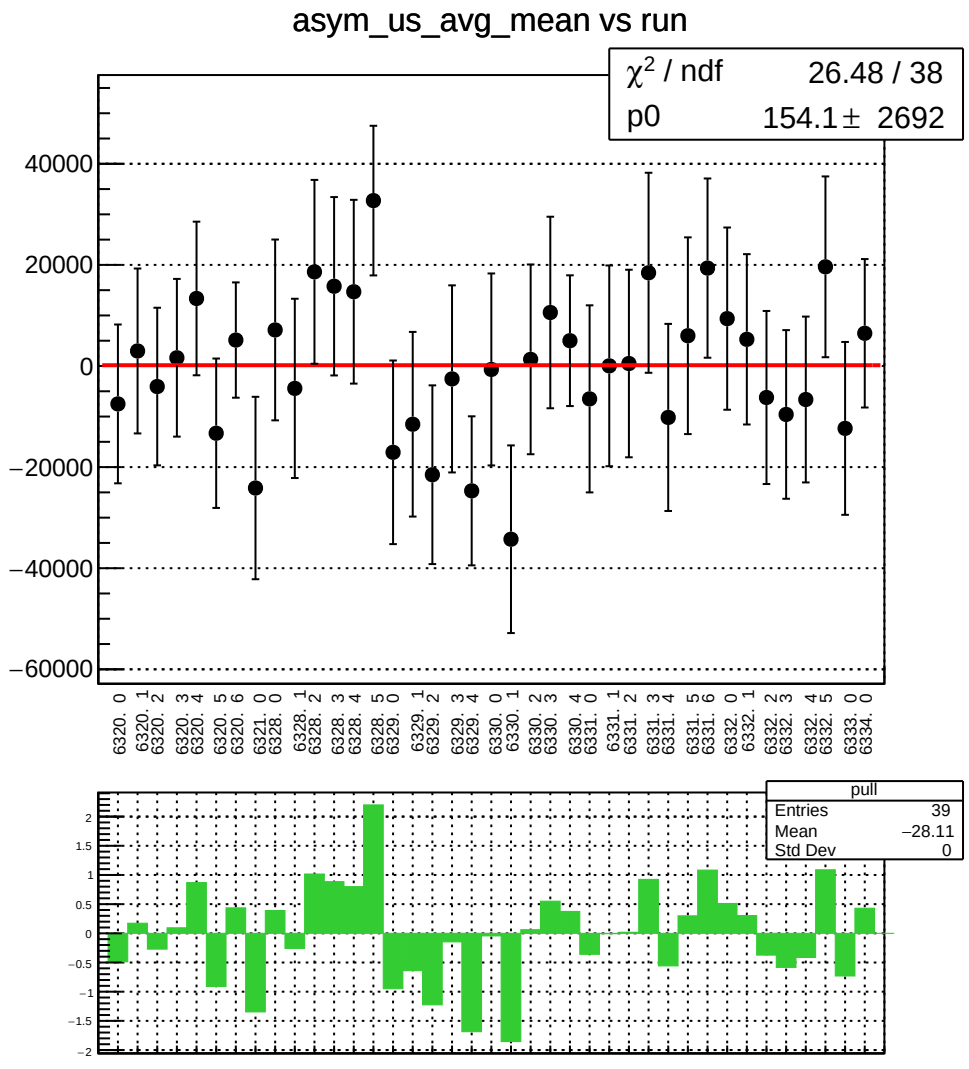

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 37.31 / 38
p0 1997 ± 1269
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.05364
Std Dev 0.9766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

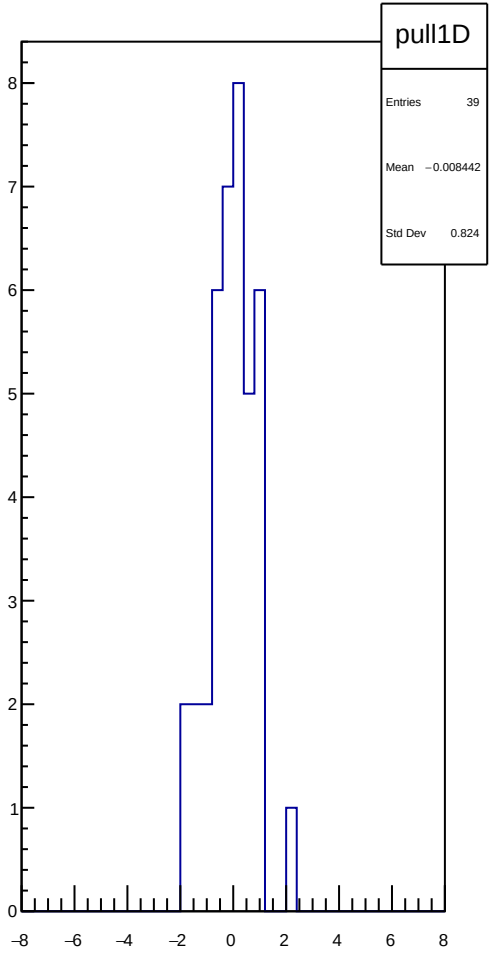

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 23.37 / 38
p0 781.4 ± 0.8974
795
790
785
780
775
770
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

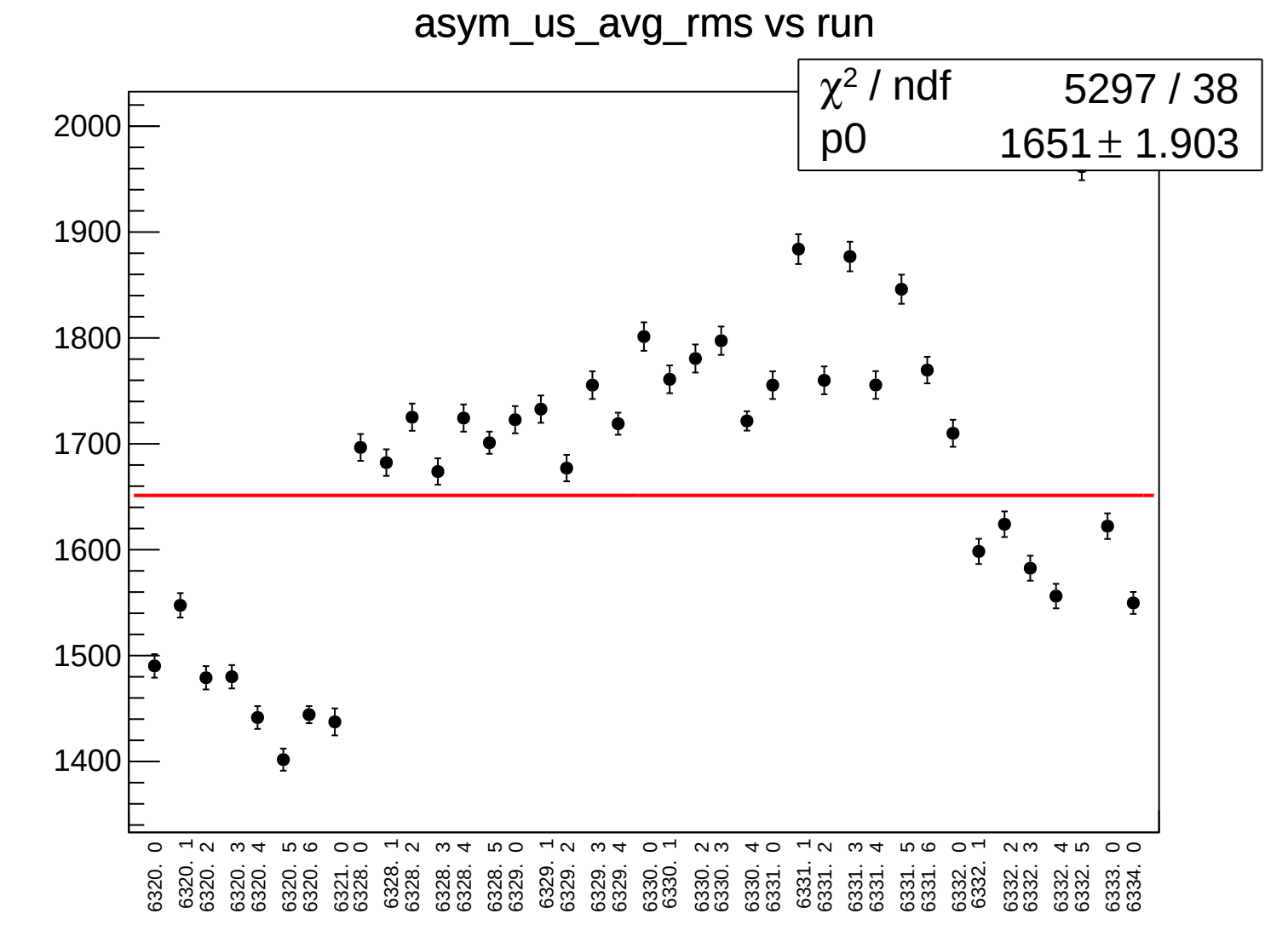

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.78 / 38
p0 1678 ± 2416
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.733
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

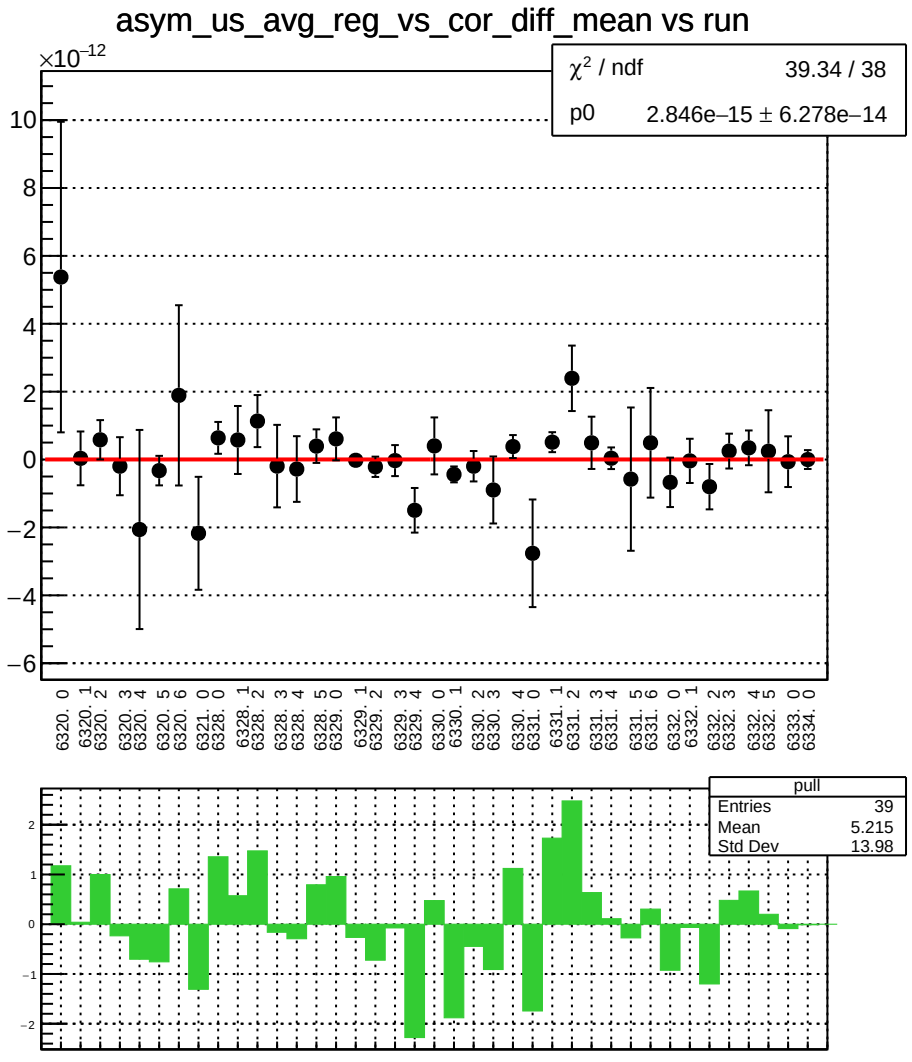

pull1D
Entries 39
Mean −0.01335
Std Dev 0.797
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

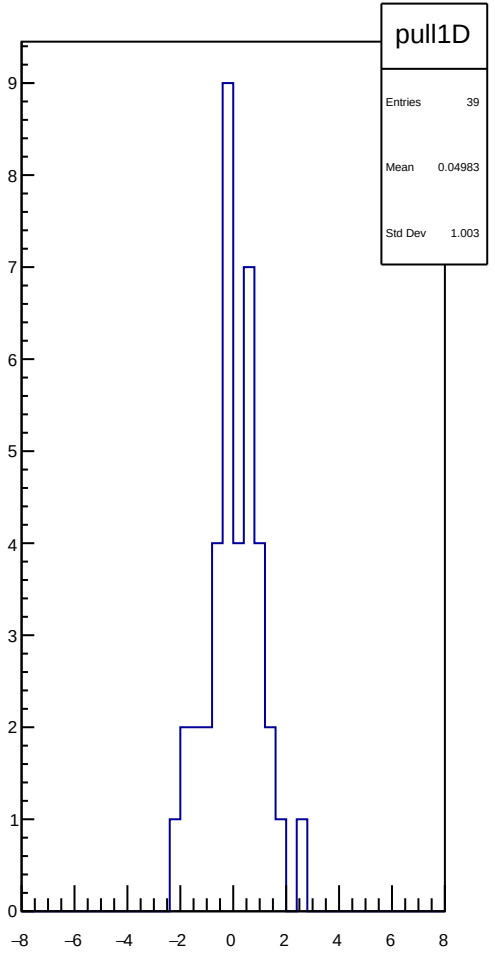

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8599 / 38
p0 1479 ± 1.708
1800
1700
1600
1500
1400
1300
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

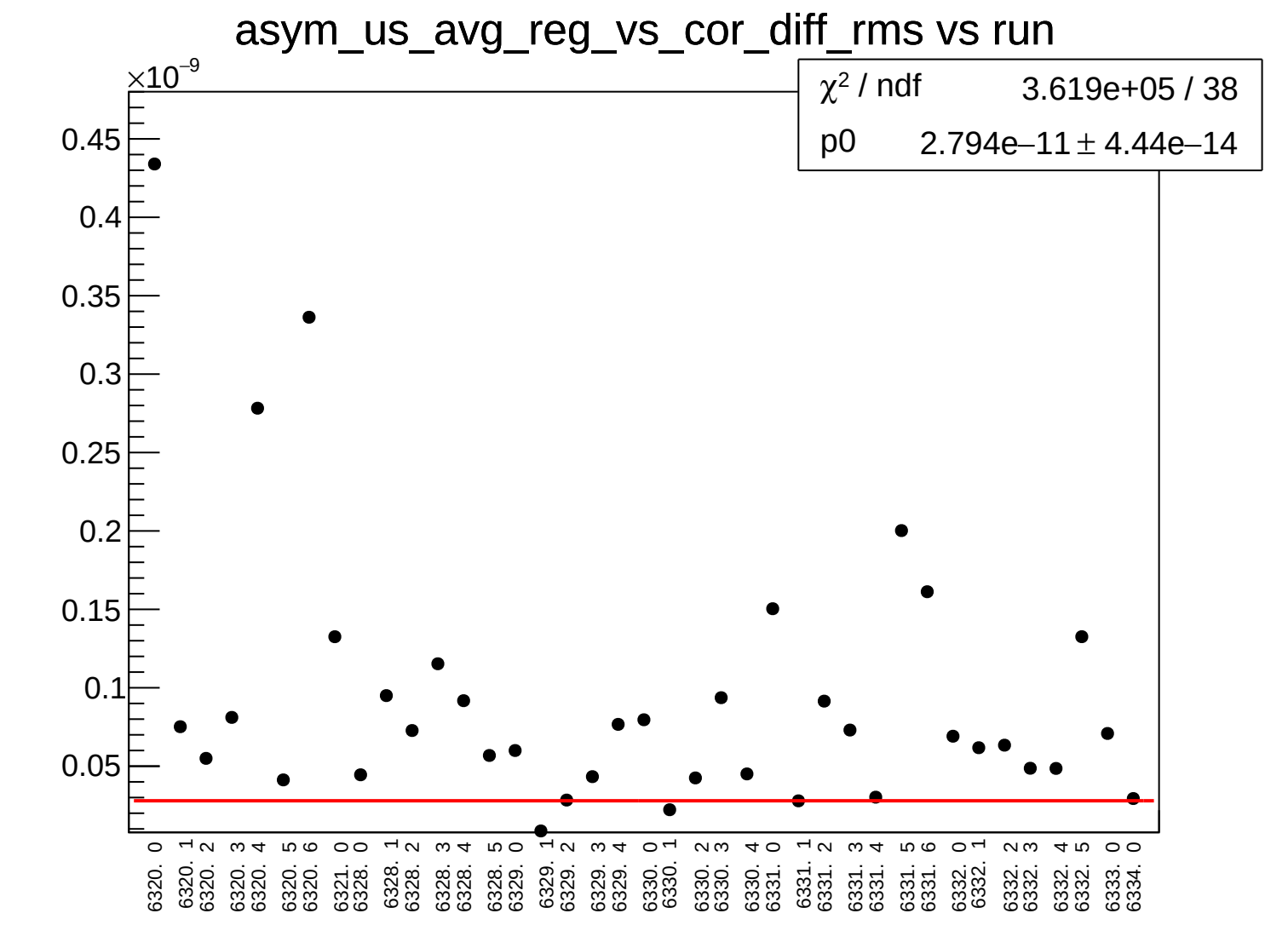

asym_us_avg_mean vs run
χ² / ndf 26.48 / 38
p0 154.1 ± 2692
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

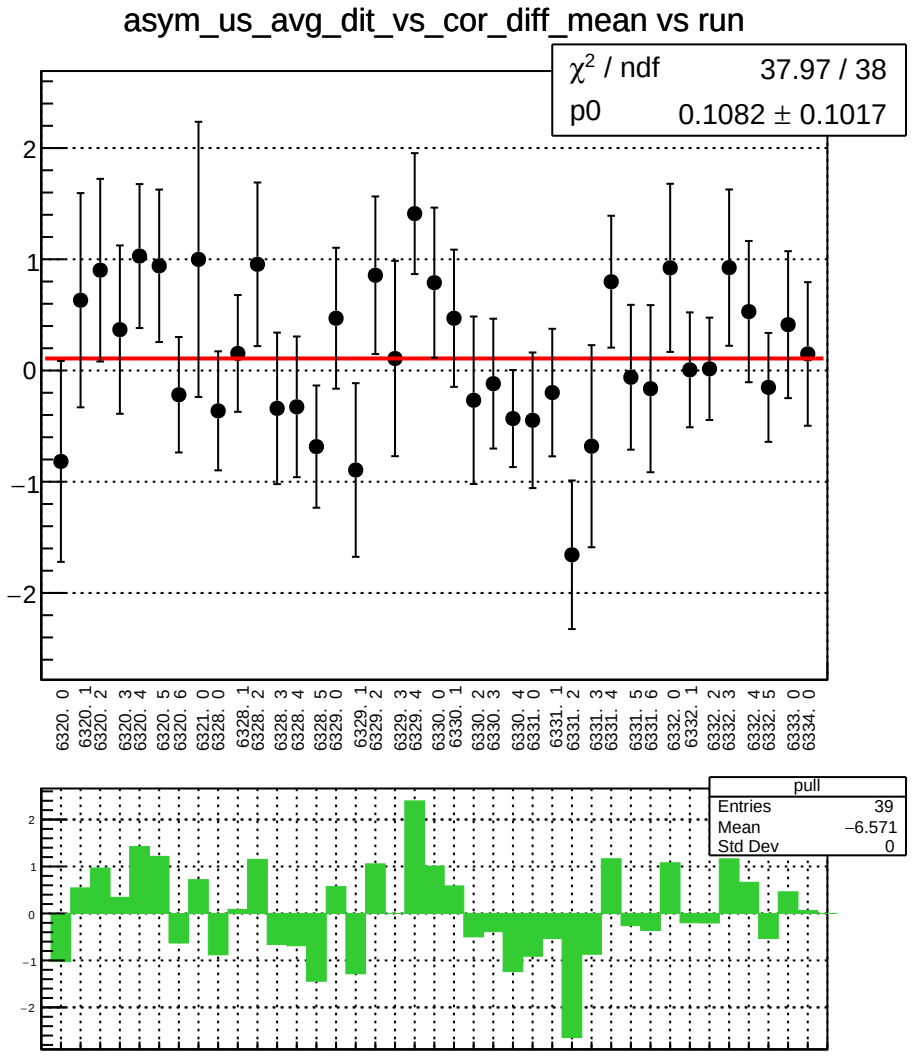

pull1D
Entries 39
Mean −0.008442
Std Dev 0.824
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

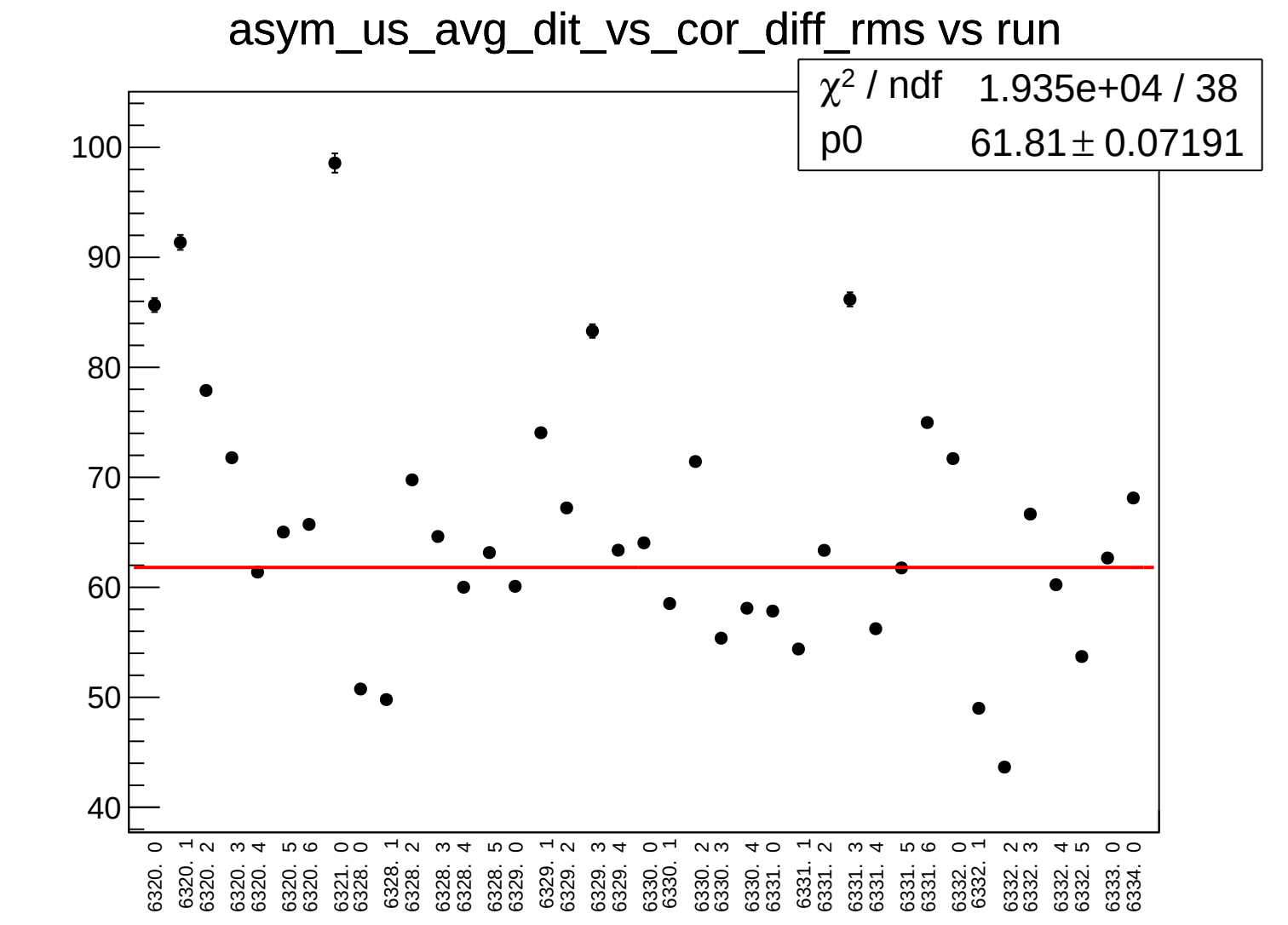

asym_us_avg_rms vs run
χ² / ndf 5297 / 38
p0 1651 ± 1.903
2000
1900
1800
1700
1600
1500
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

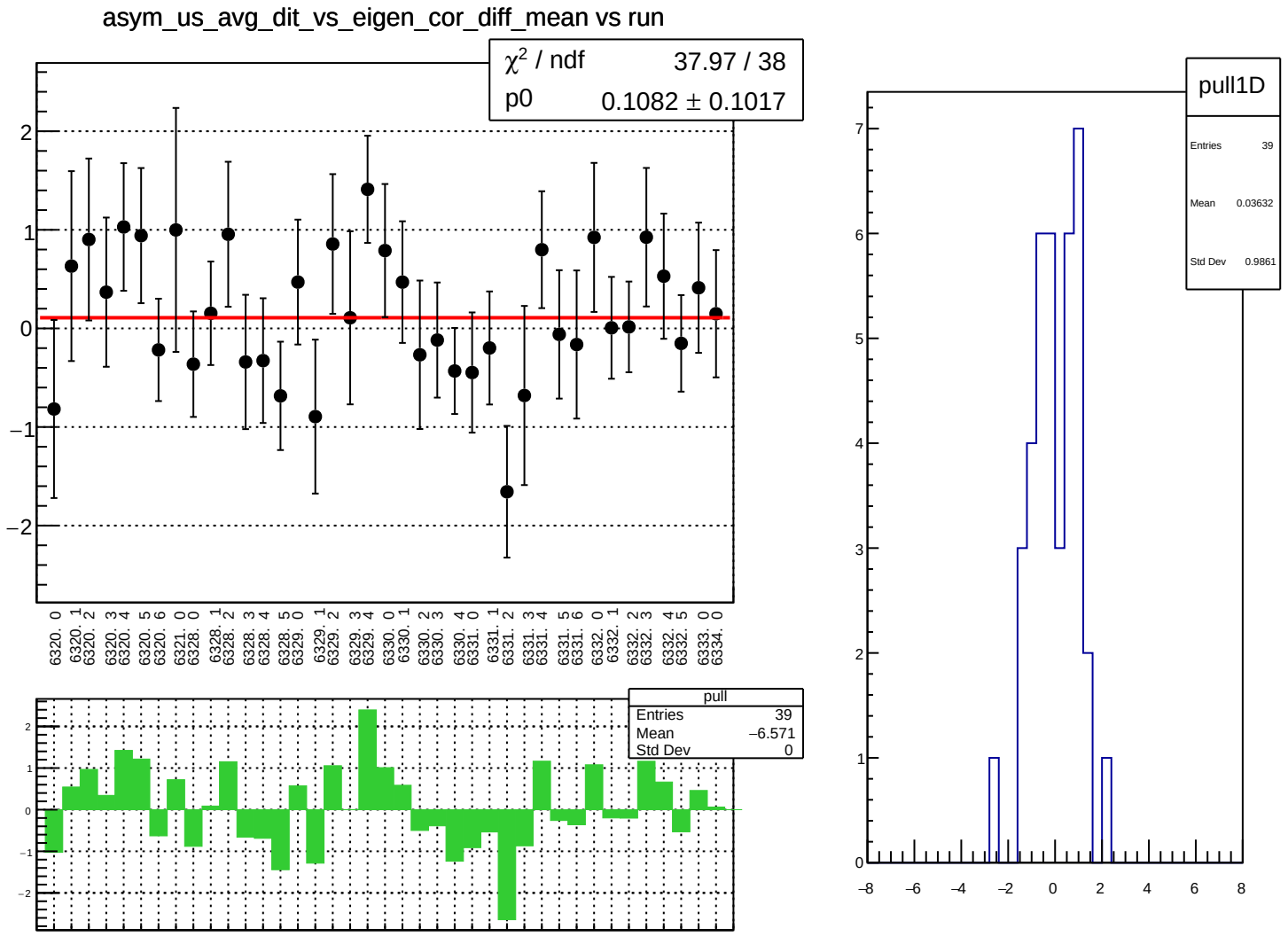

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.34 / 38
p0 2.846e−15 ± 6.278e−14
10
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.215
Std Dev 13.98
2
1
0
−1
−2

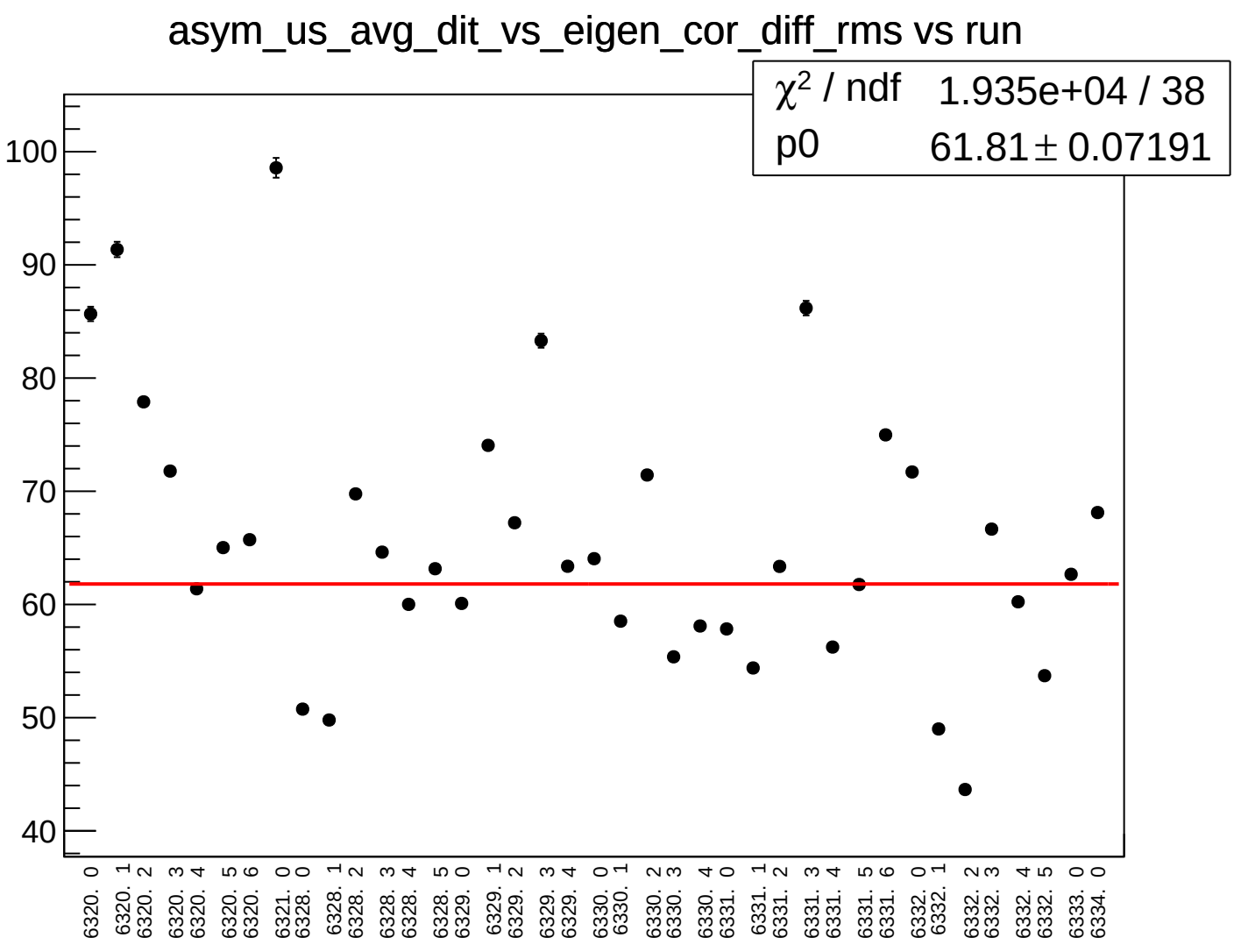

pull1D
Entries 39
Mean 0.04983
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

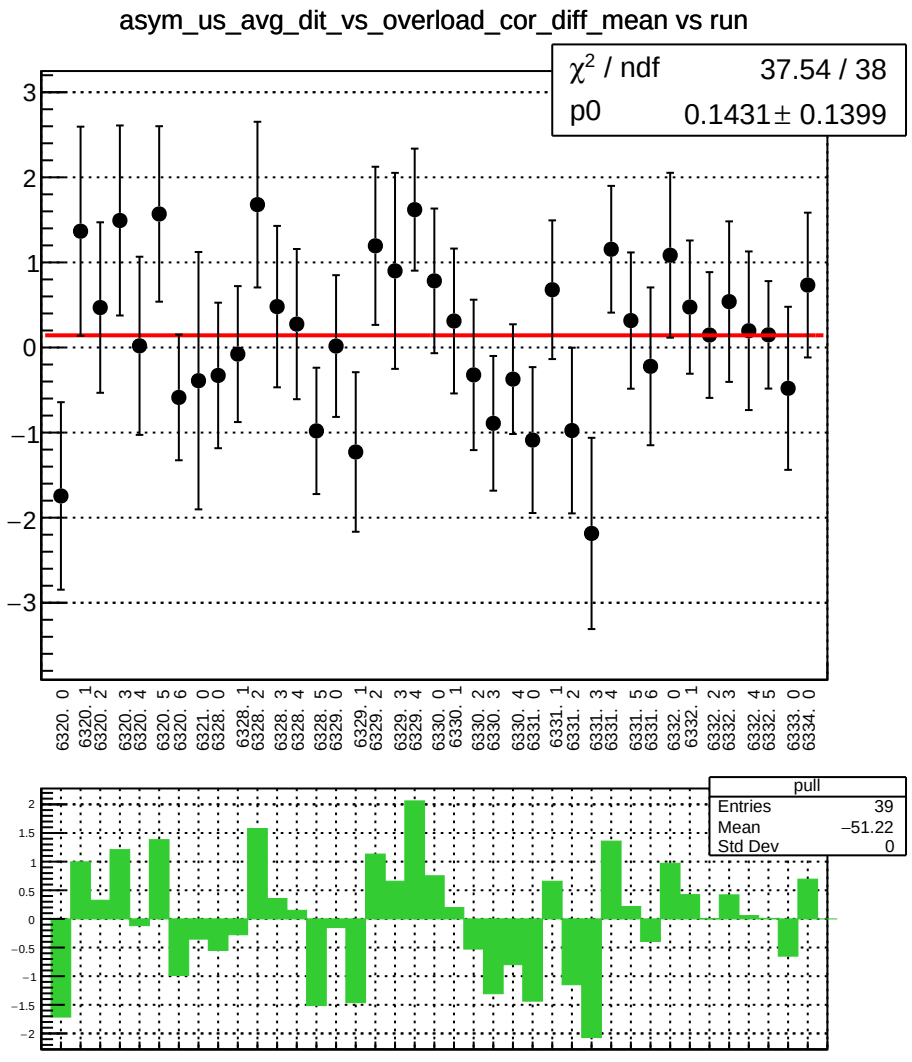

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.619e+05 / 38
p0 2.794e−11 ± 4.44e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

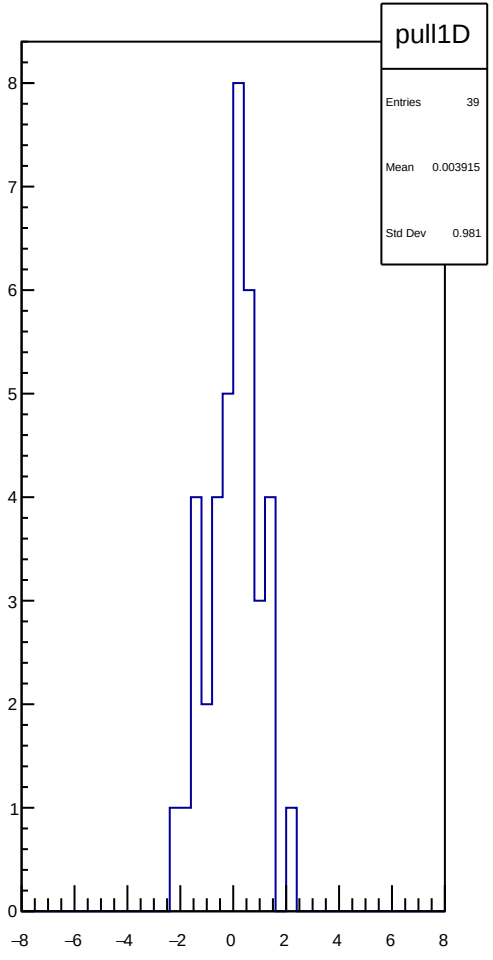

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.97 / 38
p0 0.1082 ± 0.1017
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.571
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03632
Std Dev 0.9861
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

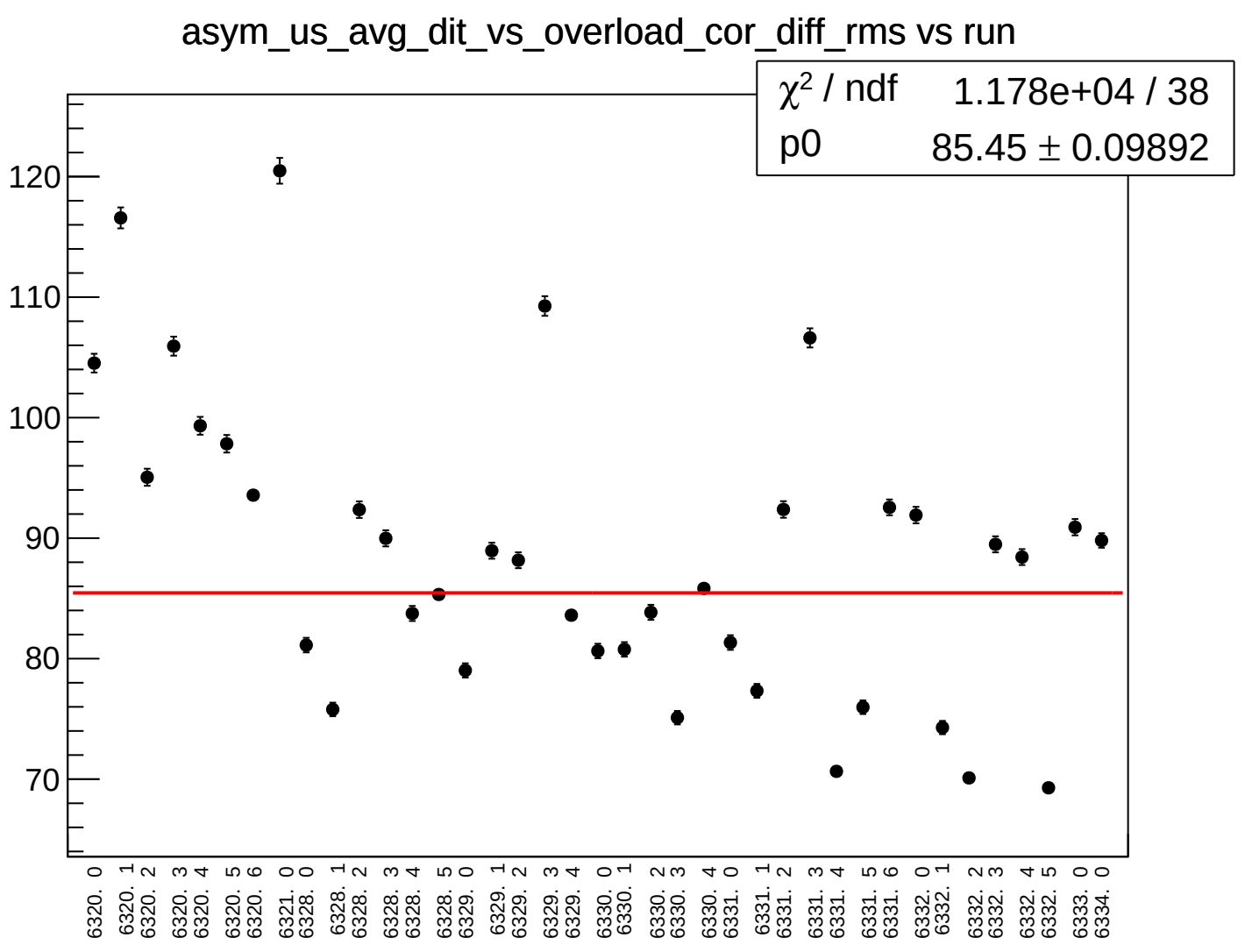

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.935e+04 / 38
p0 61.81 ± 0.07191
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

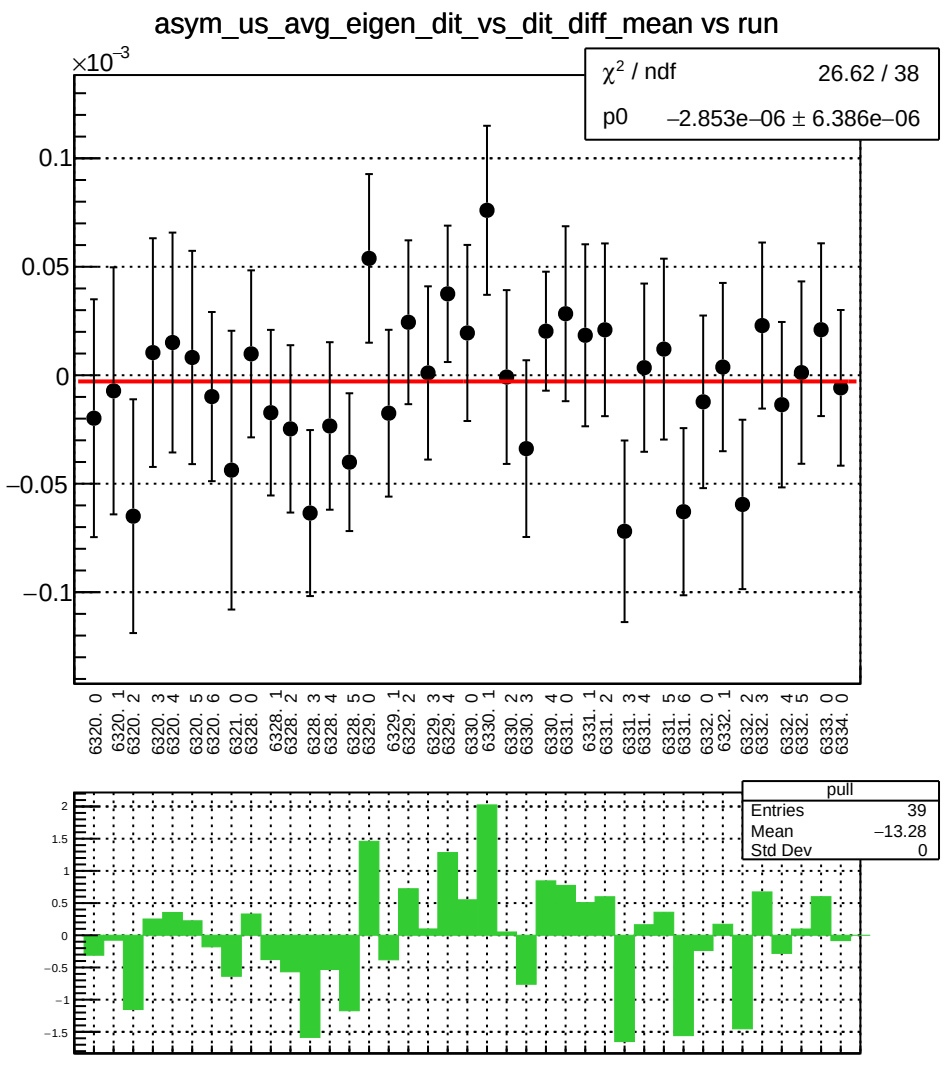

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.97 / 38
p0 0.1082 ± 0.1017
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.571
Std Dev 0
pull1D
Entries 39
Mean 0.03632
Std Dev 0.9861
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

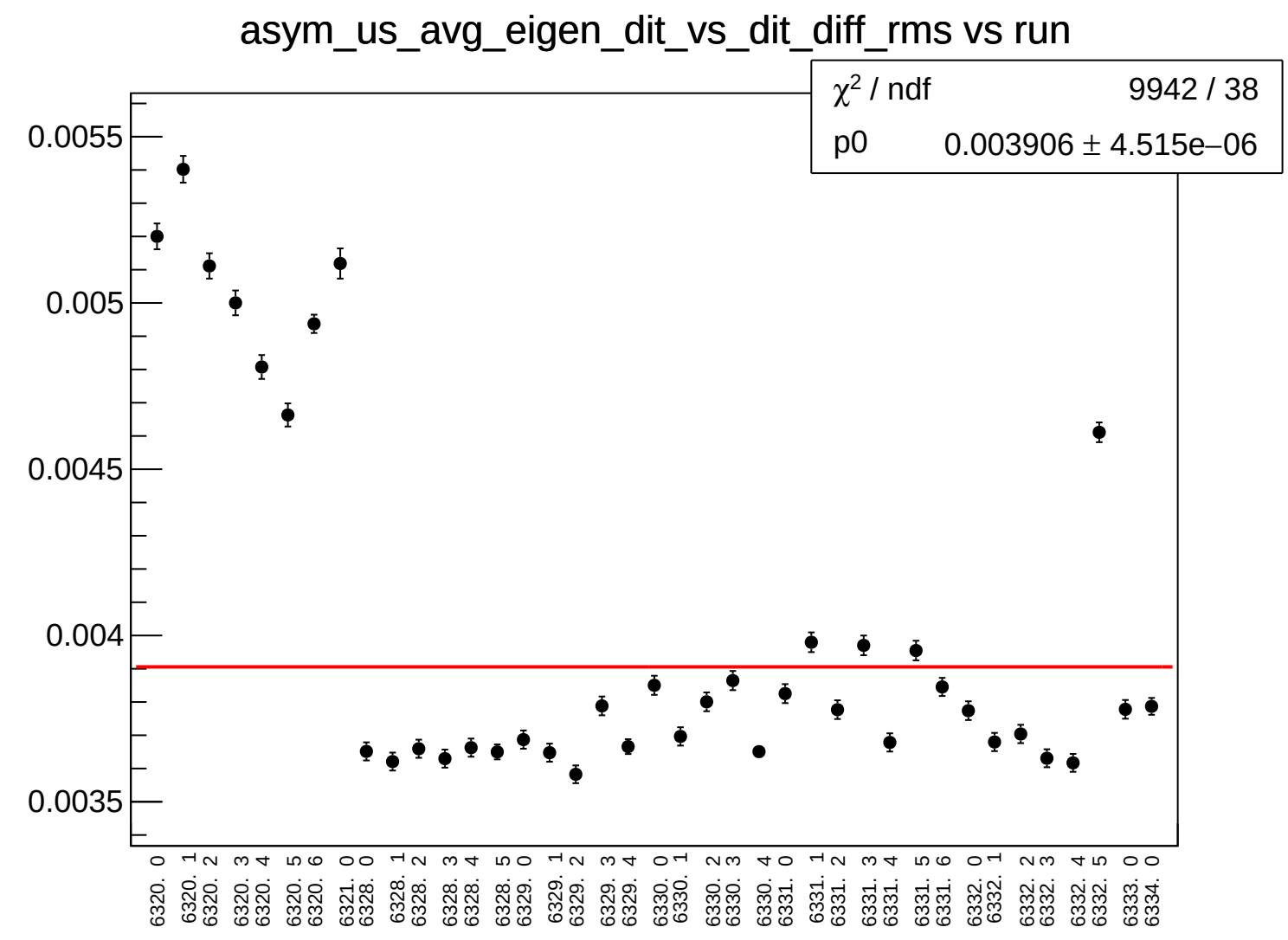

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.935e+04 / 38
p0 61.81 ± 0.07191
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

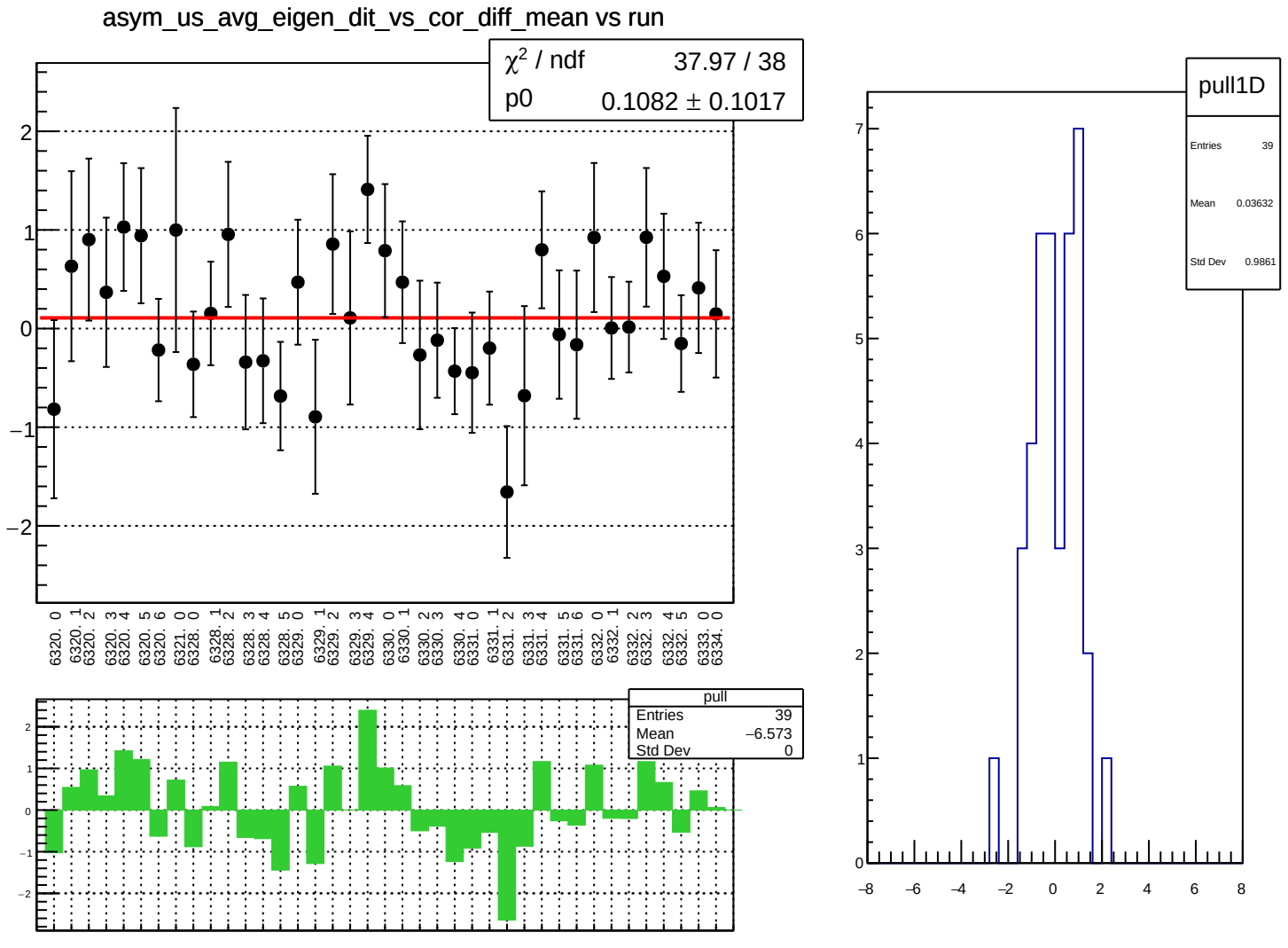

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.54 / 38
p0 0.1431 ± 0.1399
pull
Entries 39
Mean −51.22
Std Dev 0

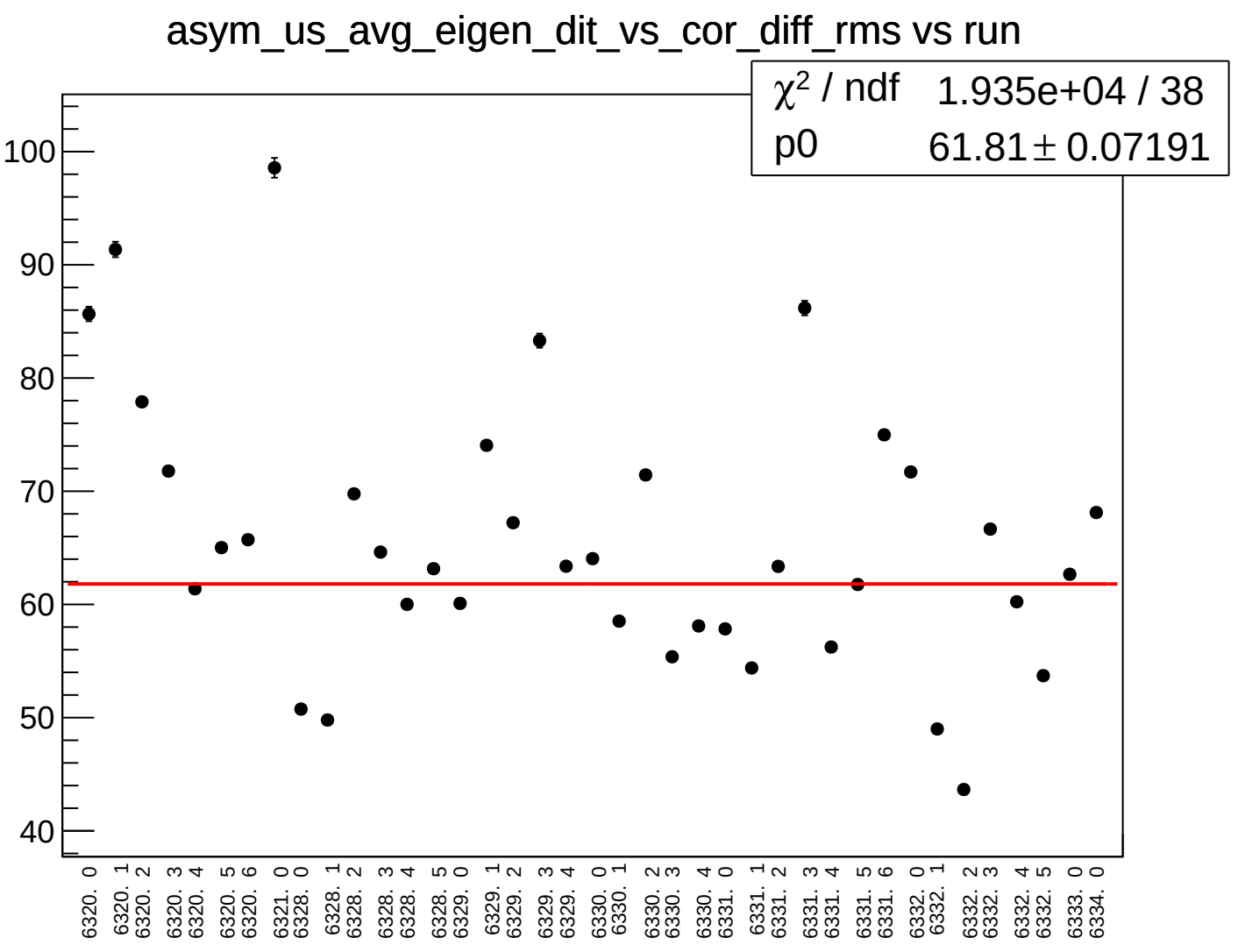

pull1D
Entries 39
Mean 0.003915
Std Dev 0.981

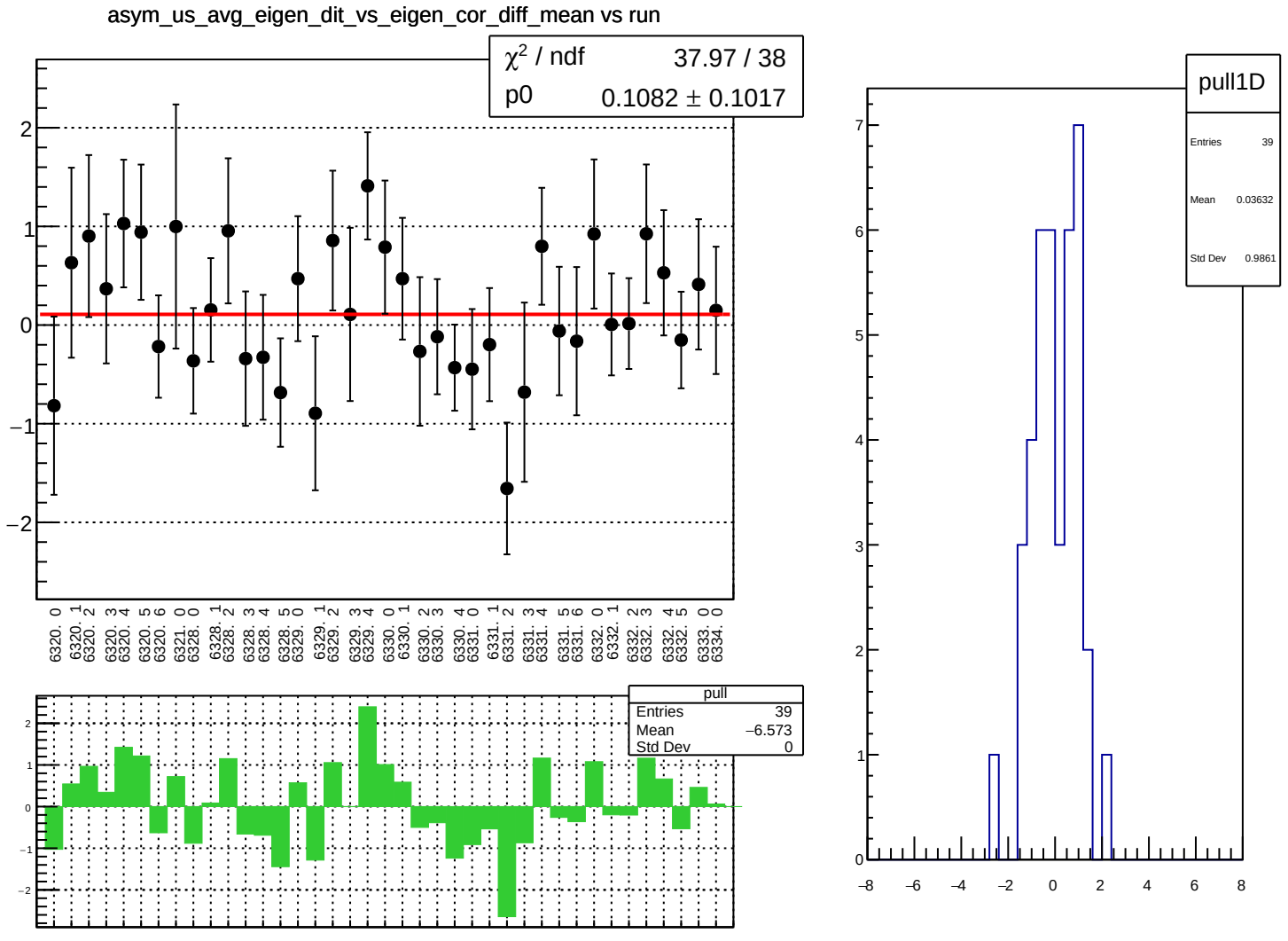

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.178e+04 / 38
p0 85.45 ± 0.09892
120
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

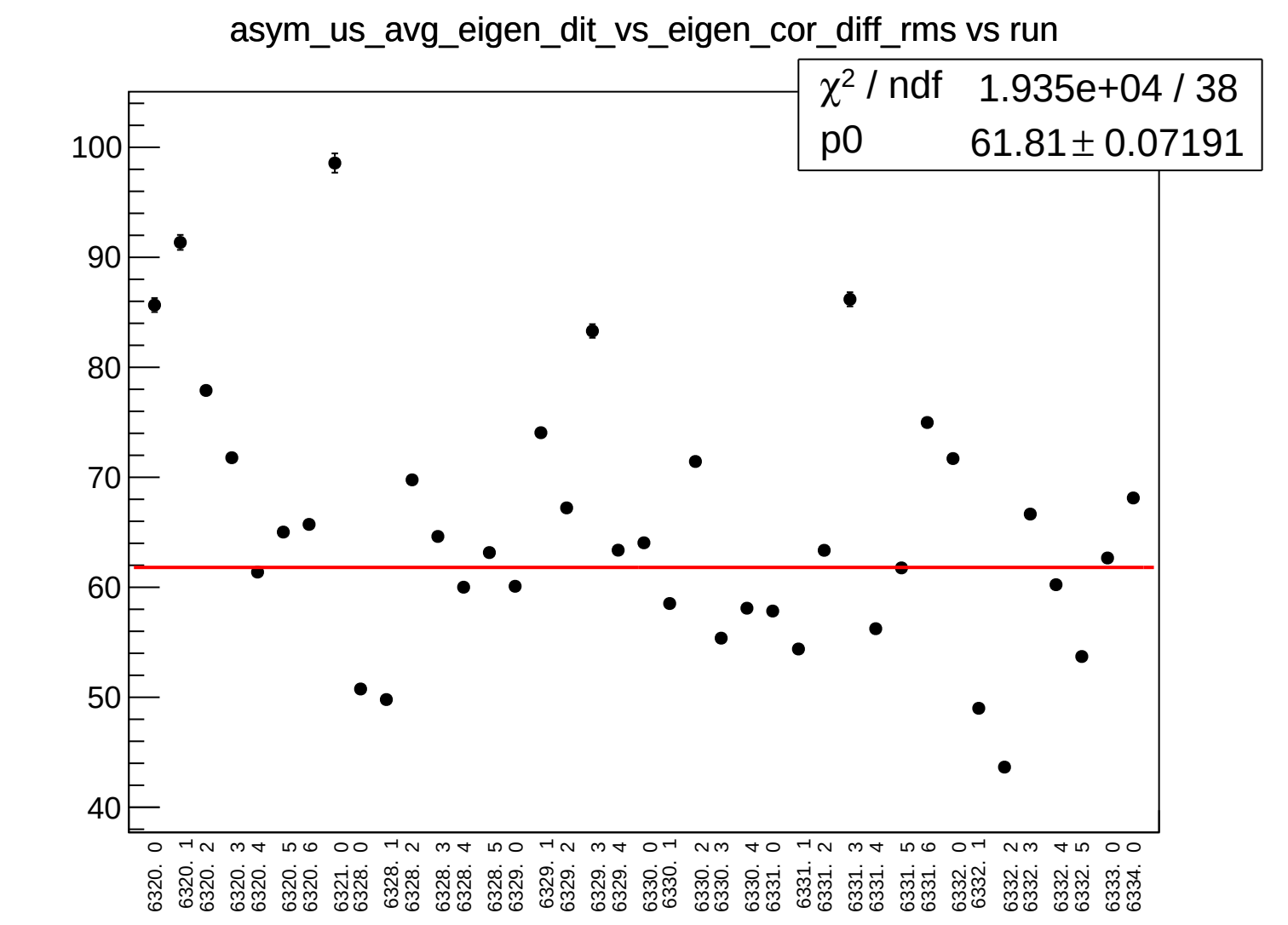

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 26.62 / 38
p0 −2.853e−06 ± 6.386e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02199
Std Dev 0.826
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9942 / 38
p0 0.003906 ± 4.515e−06
0.0055
0.005
0.0045
0.004
0.0035
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

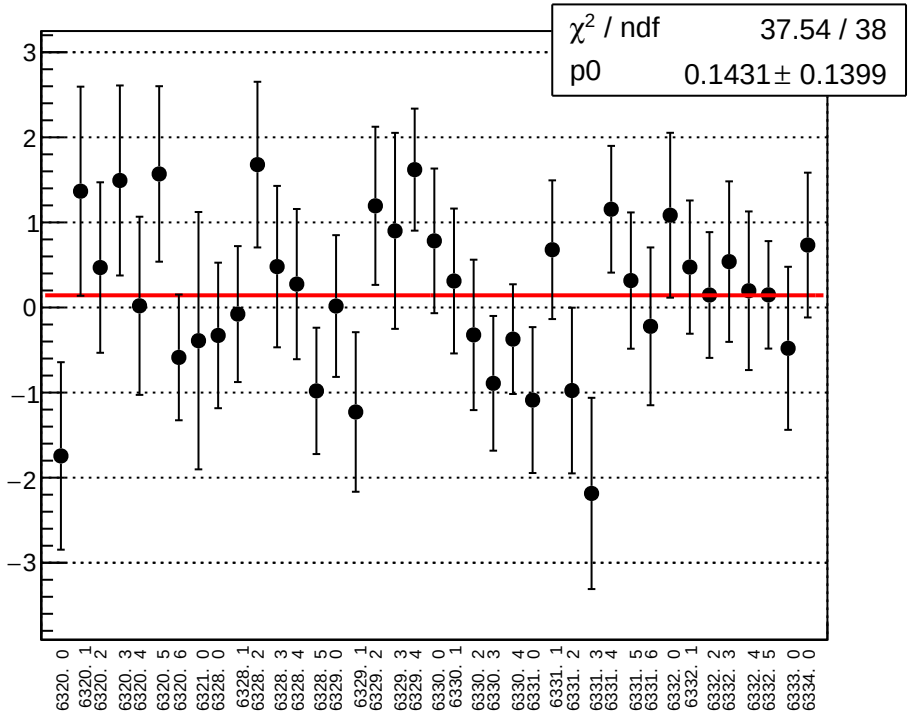

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.97 / 38
p0 0.1082 ± 0.1017
pull
Entries 39
Mean −6.573
Std Dev 0
pull1D
Entries 39
Mean 0.03632
Std Dev 0.9861

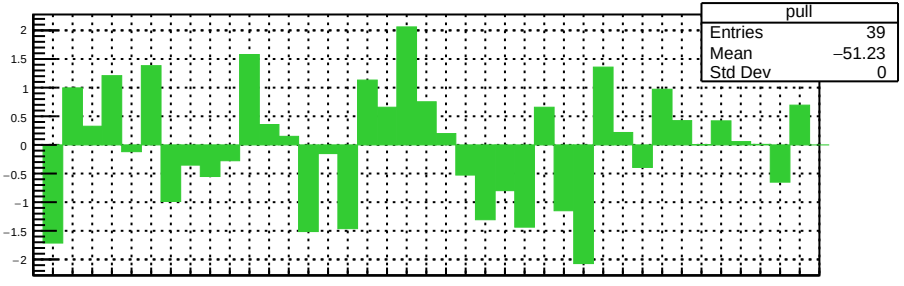

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.935e+04 / 38
p0 61.81 ± 0.07191
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

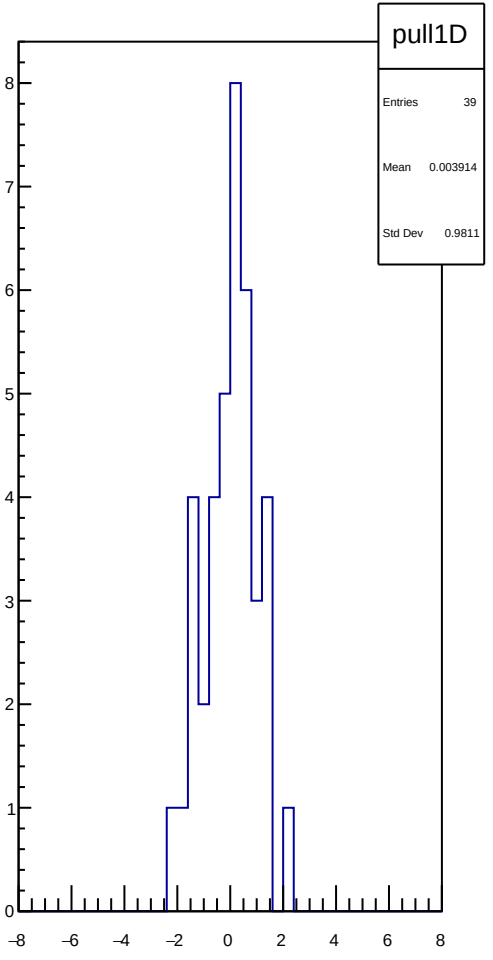

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.97 / 38
p0 0.1082 ± 0.1017
pull
Entries 39
Mean −6.573
Std Dev 0
pull1D
Entries 39
Mean 0.03632
Std Dev 0.9861

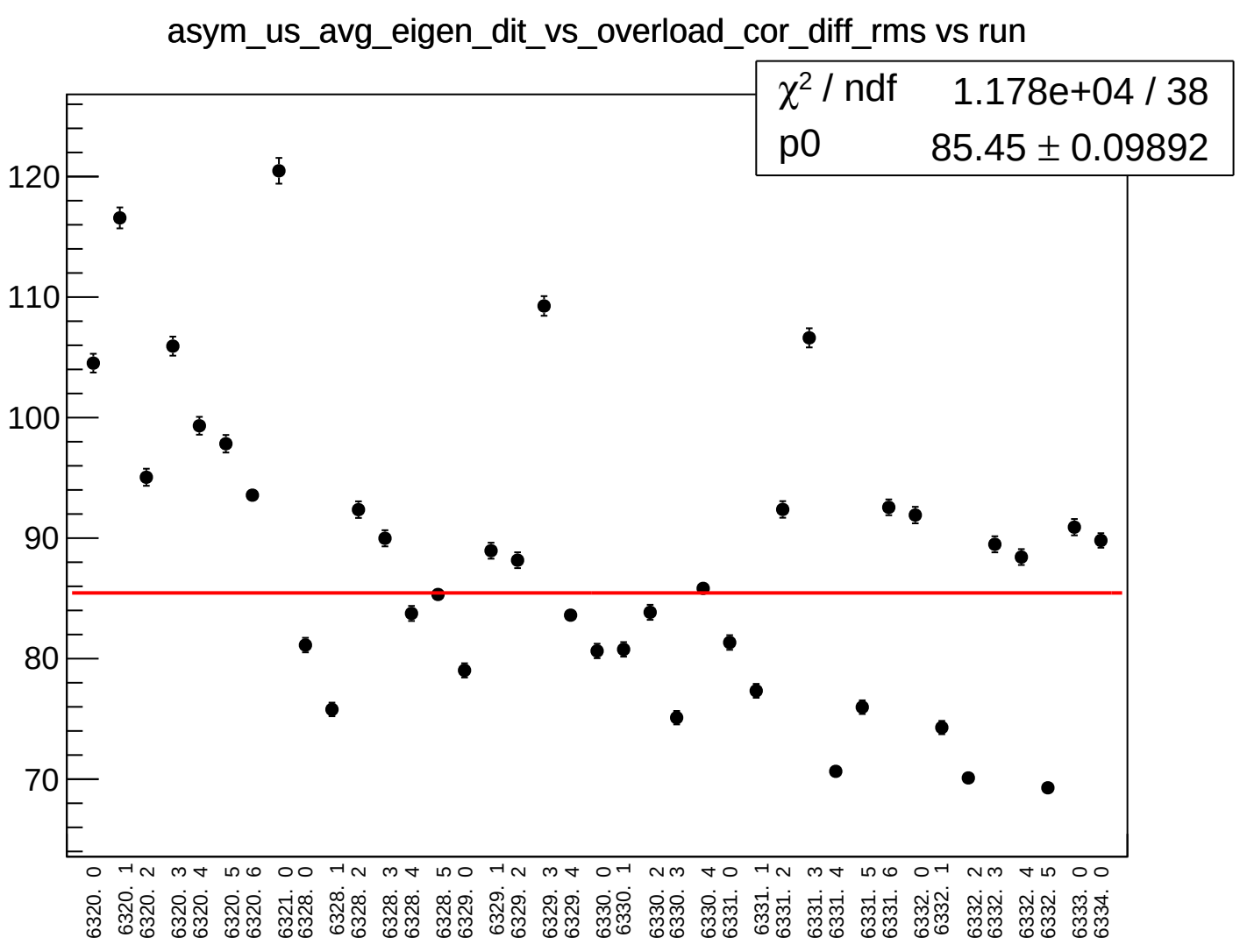

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.935e+04 / 38
p0 61.81 ± 0.07191
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

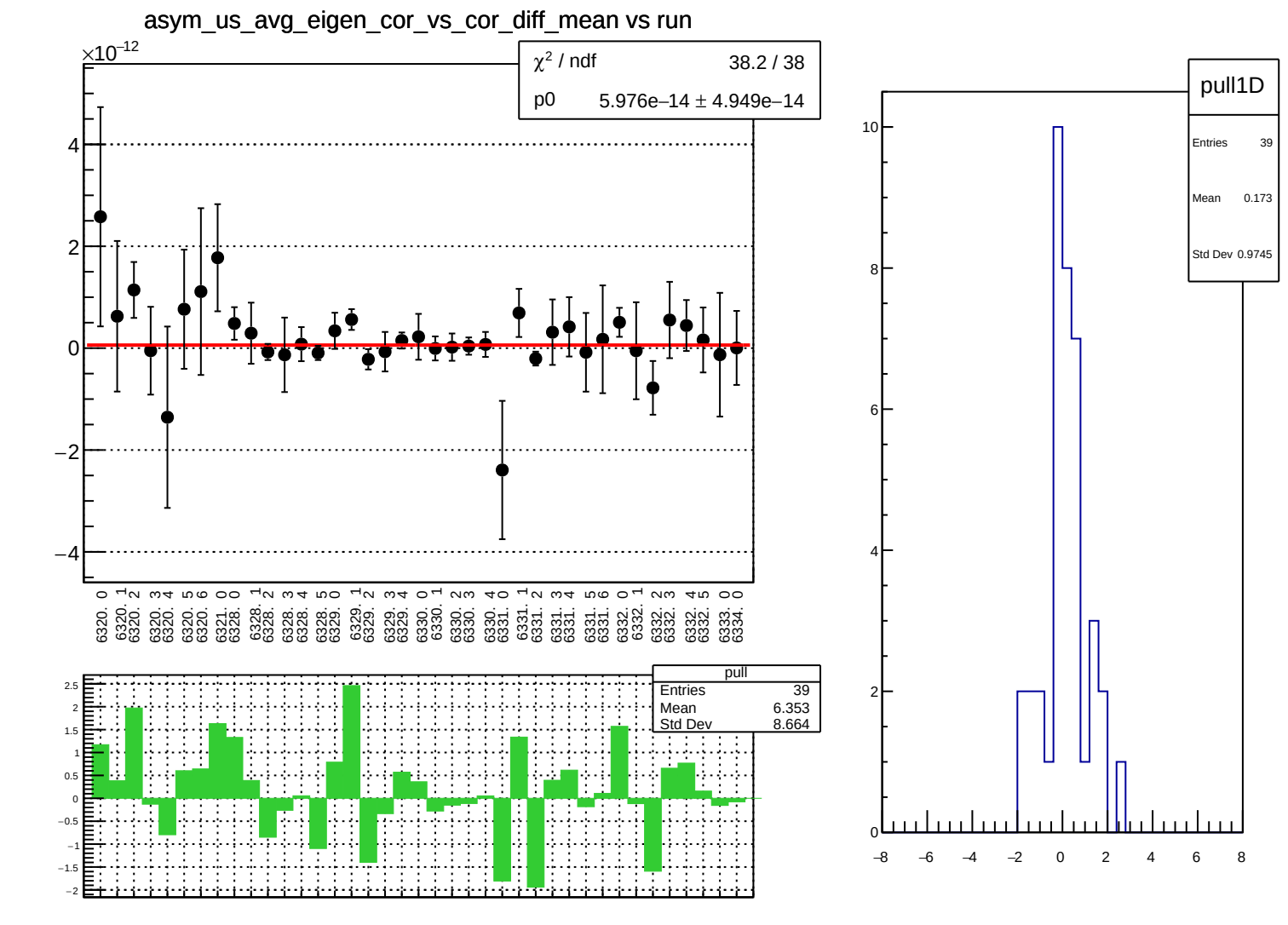
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

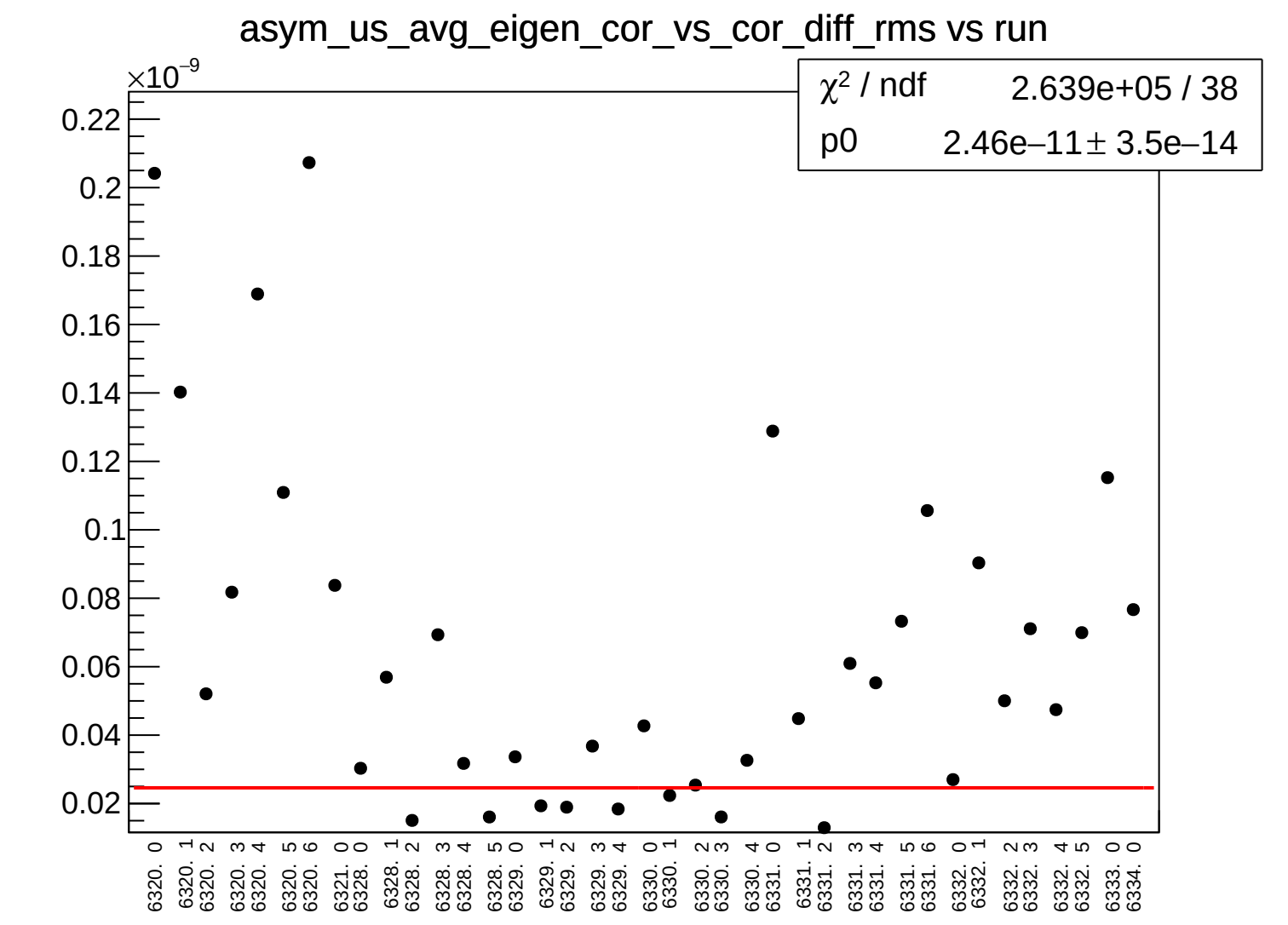


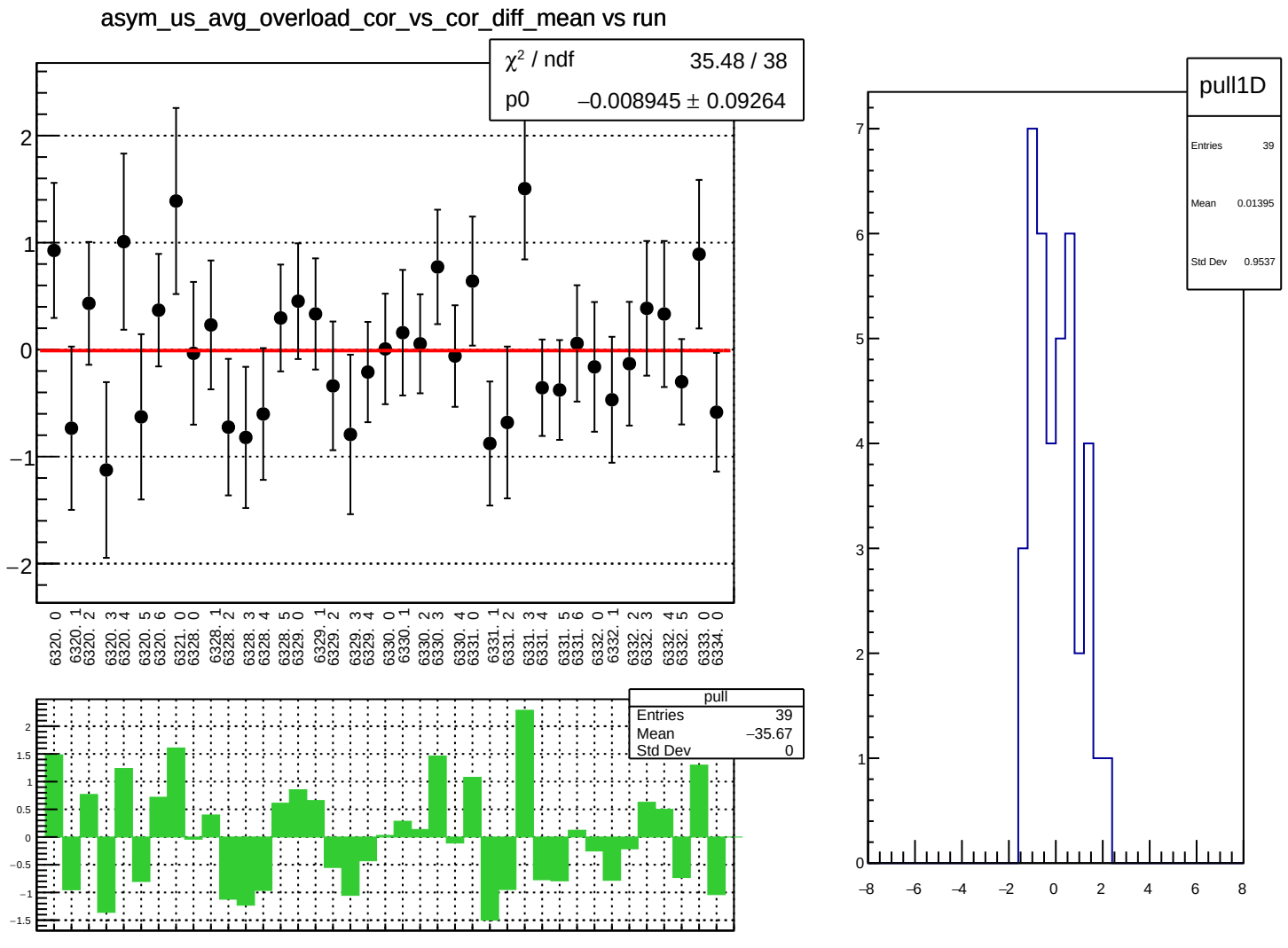


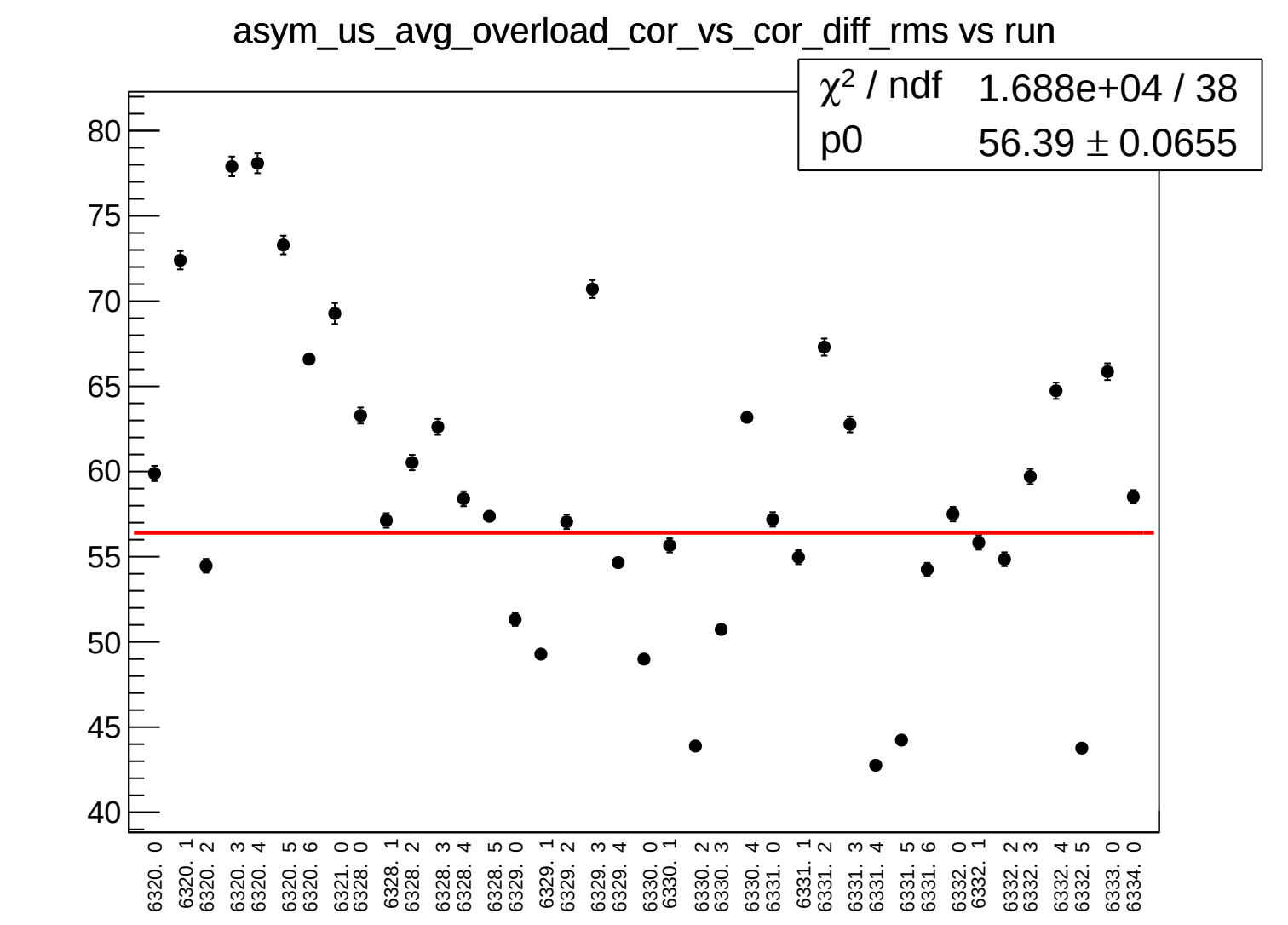


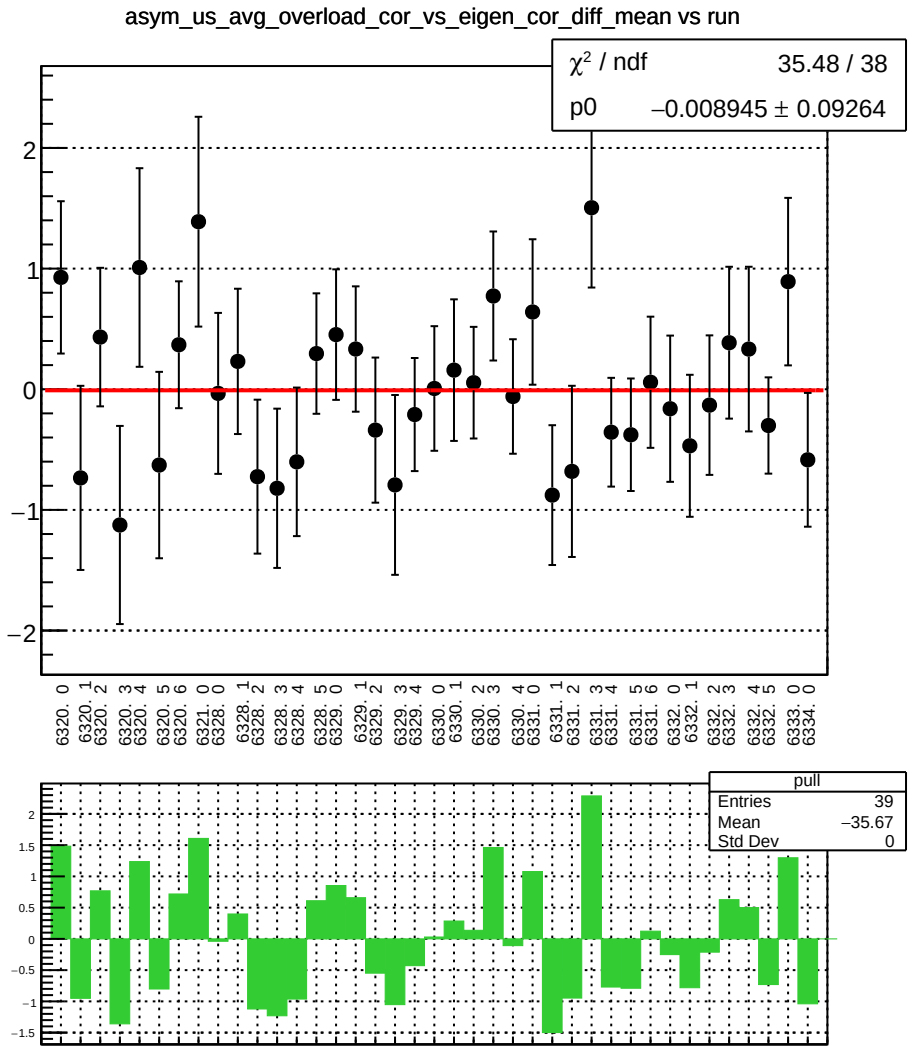

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.178e+04 / 38
p0 85.45 ± 0.09892
120
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

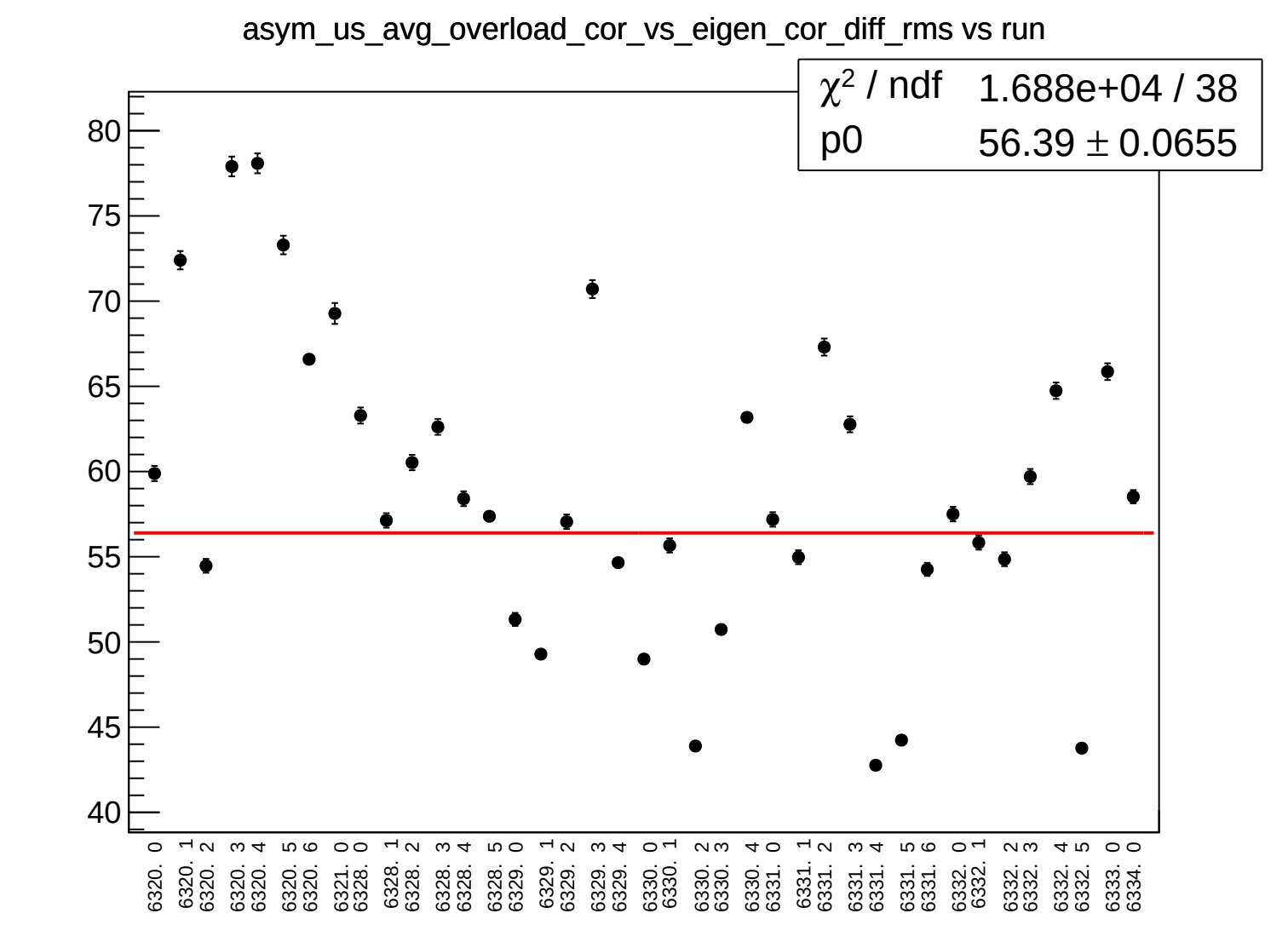

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.2 / 38
p0 5.976e−14 ± 4.949e−14
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.353
Std Dev 8.664
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.173
Std Dev 0.9745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

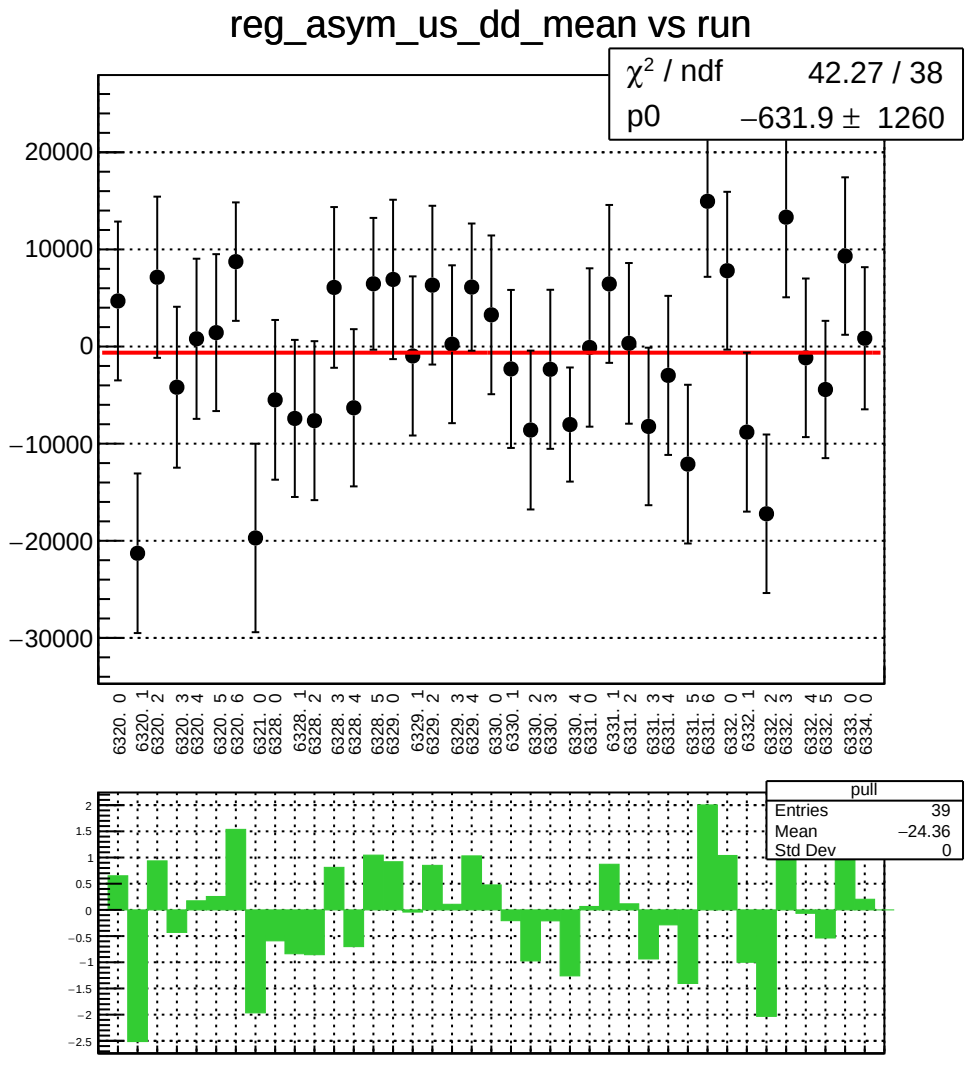

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.639e+05 / 38
p0 2.46e−11 ± 3.5e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

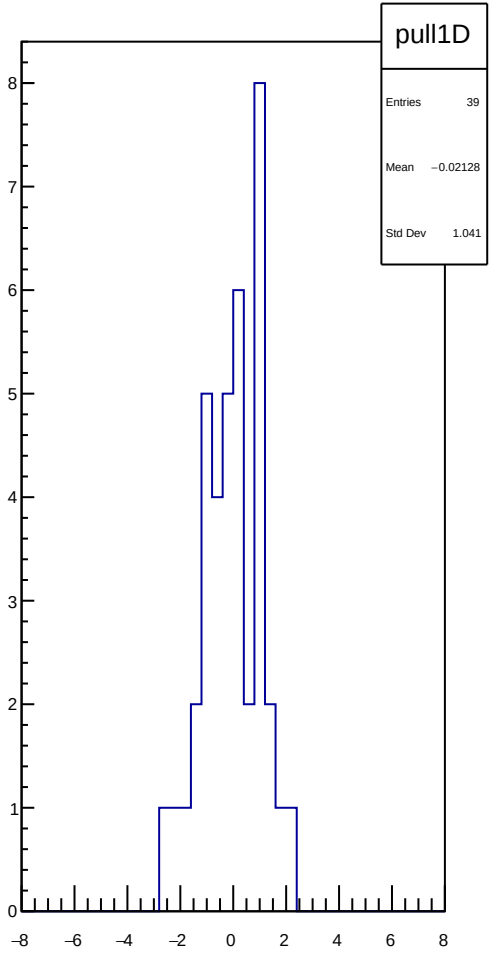

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 35.48 / 38
p0 −0.008945 ± 0.09264
pull
Entries 39
Mean −35.67
Std Dev 0
pull1D
Entries 39
Mean 0.01395
Std Dev 0.9537


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.688e+04 / 38
p0 56.39 ± 0.0655
80
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.48 / 38
p0 −0.008945 ± 0.09264
pull
Entries 39
Mean −35.67
Std Dev 0
pull1D
Entries 39
Mean 0.01395
Std Dev 0.9537


asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+04 / 38
p0 56.39 ± 0.0655
80
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


reg_asym_us_dd_mean vs run
χ² / ndf 42.27 / 38
p0 −631.9 ± 1260
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02128
Std Dev 1.041
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7
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5
4
3
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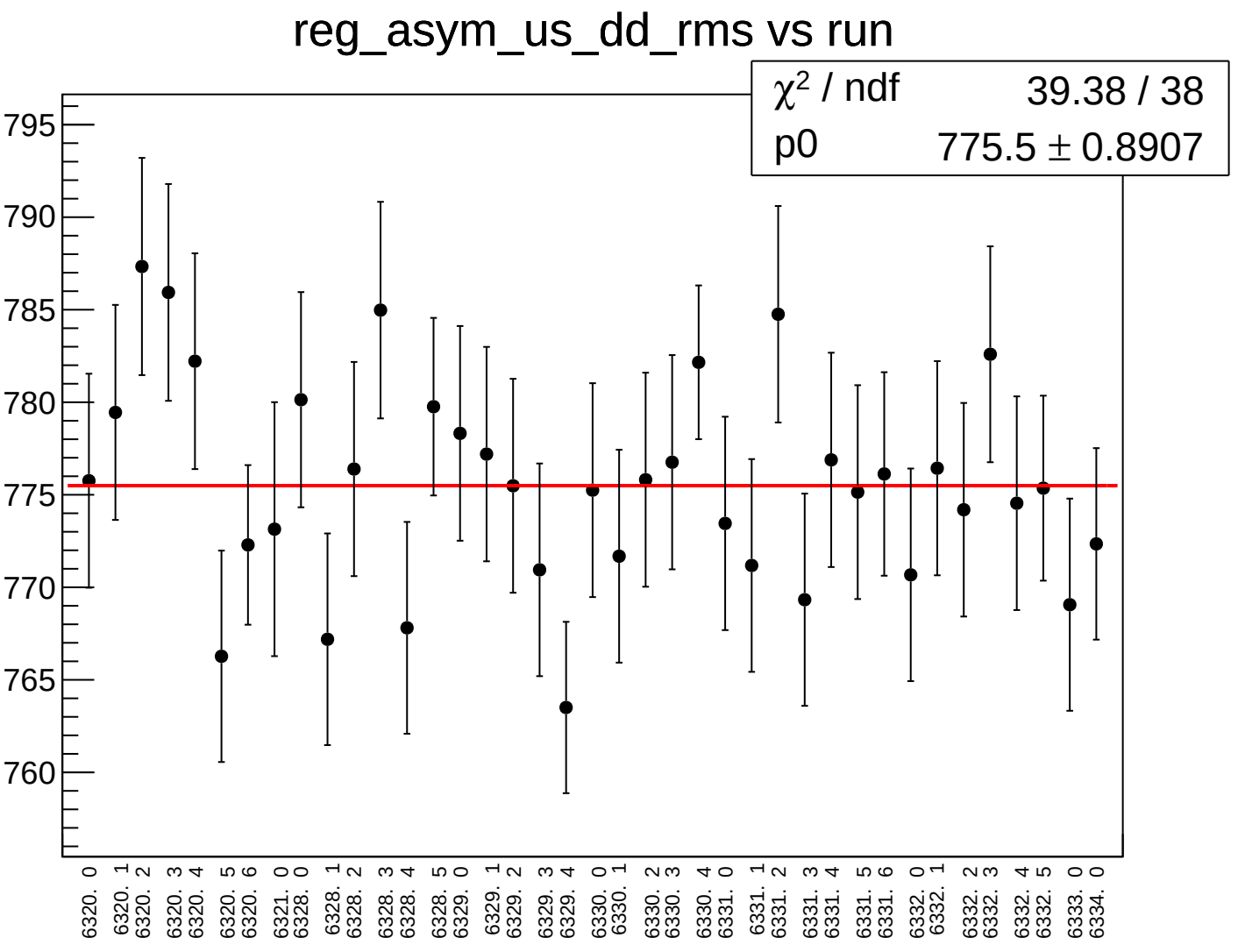
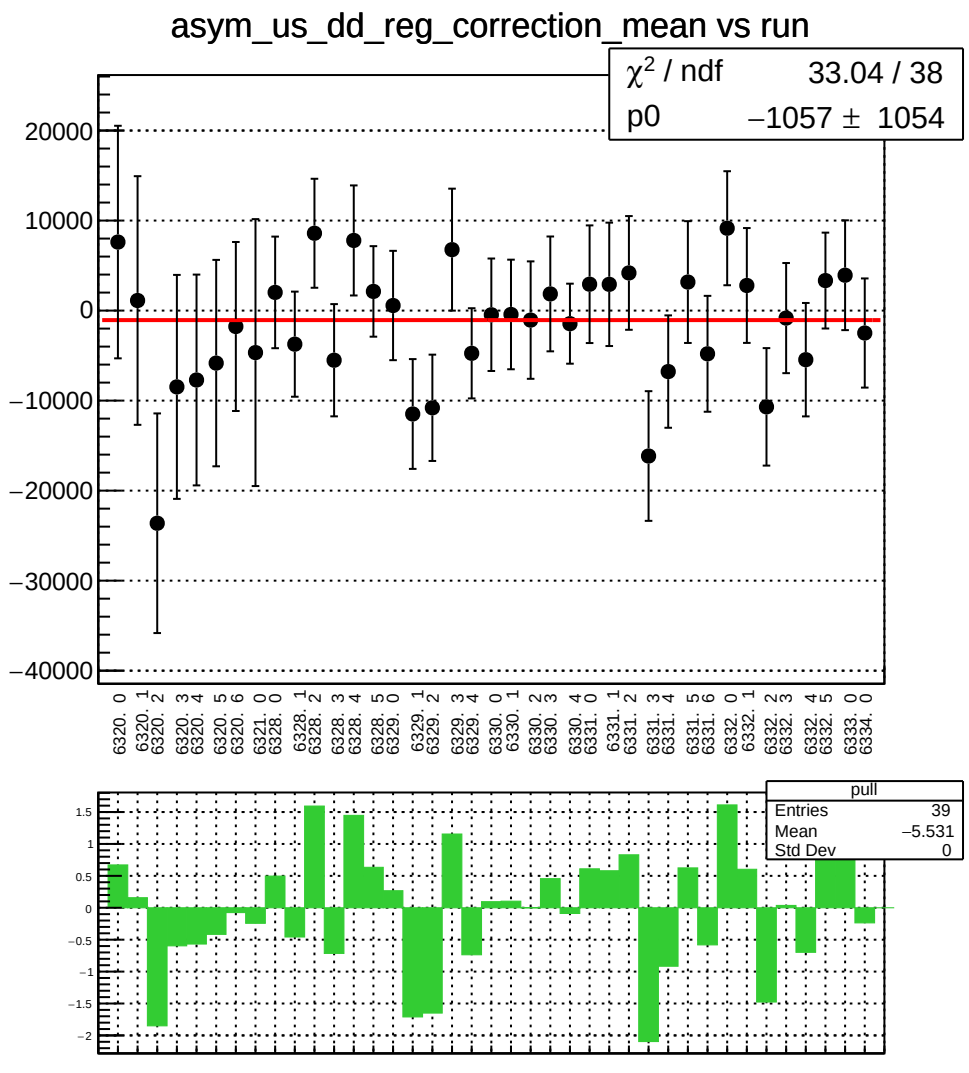
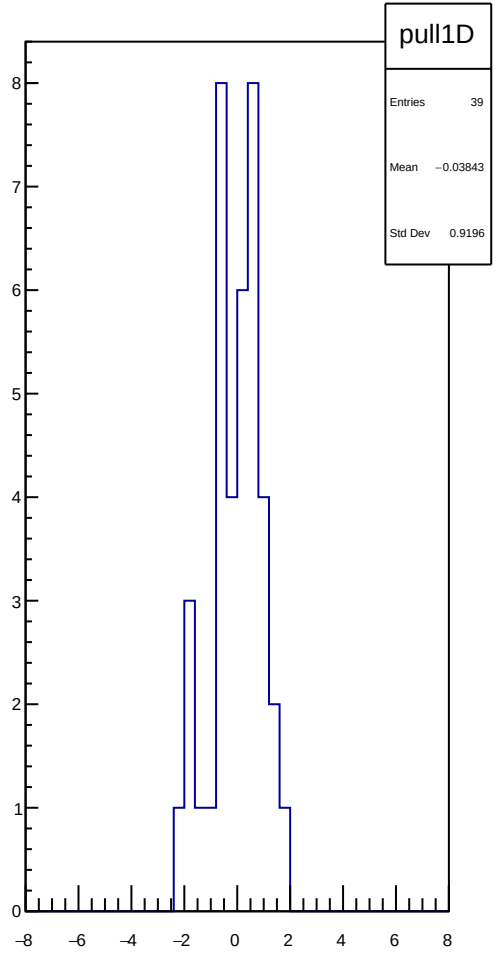
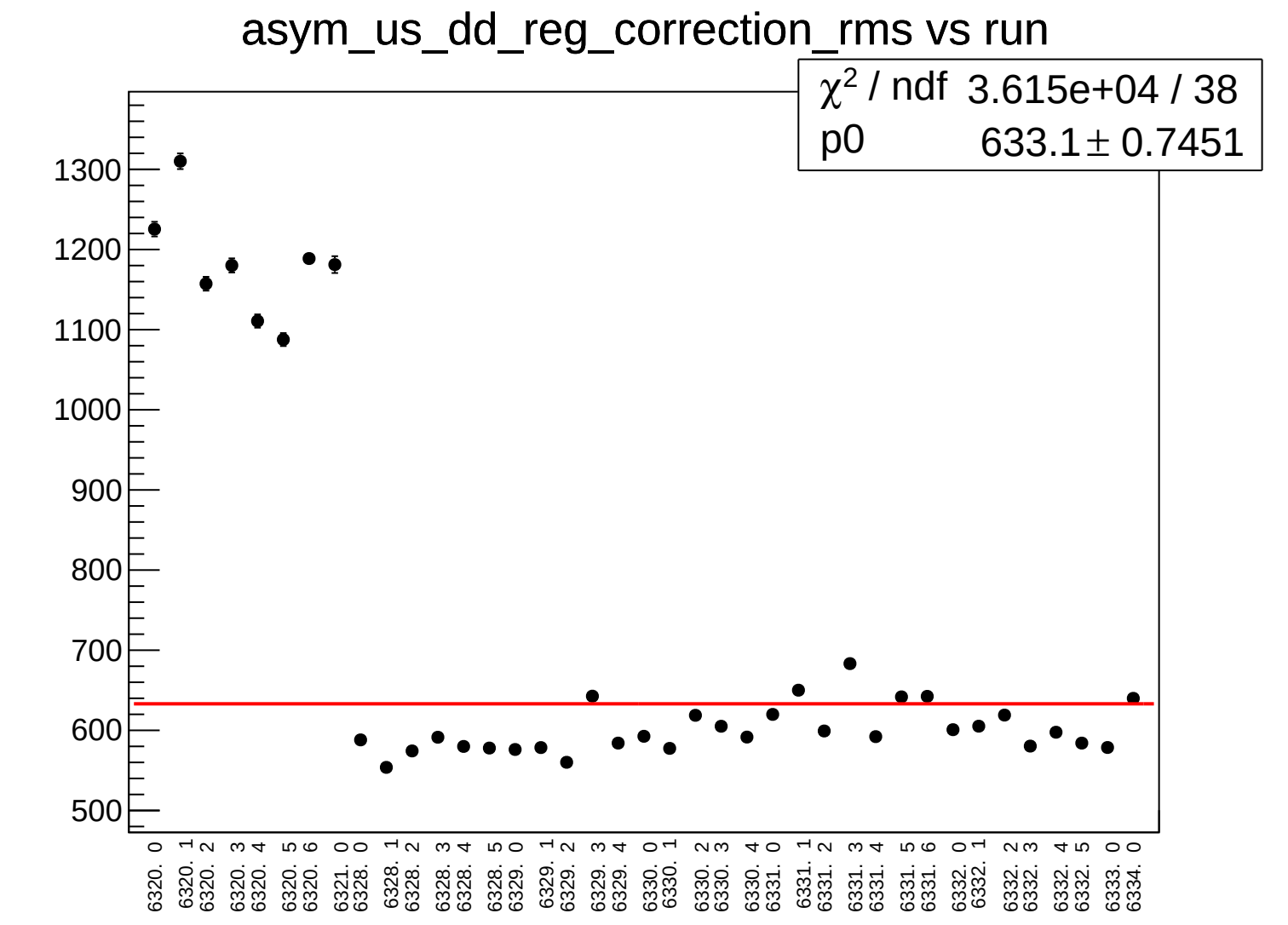
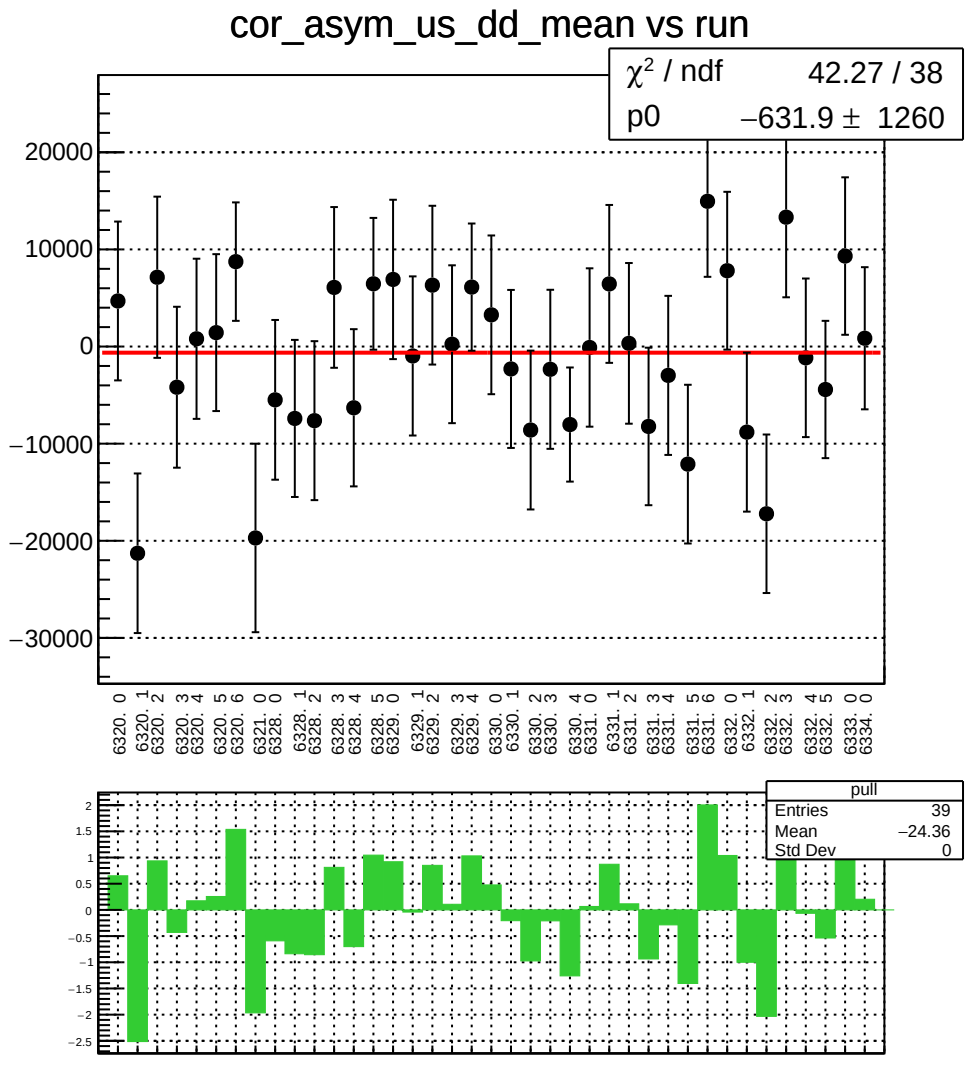
1
0
−8
−6
−4
−2
0
2
4
6
8

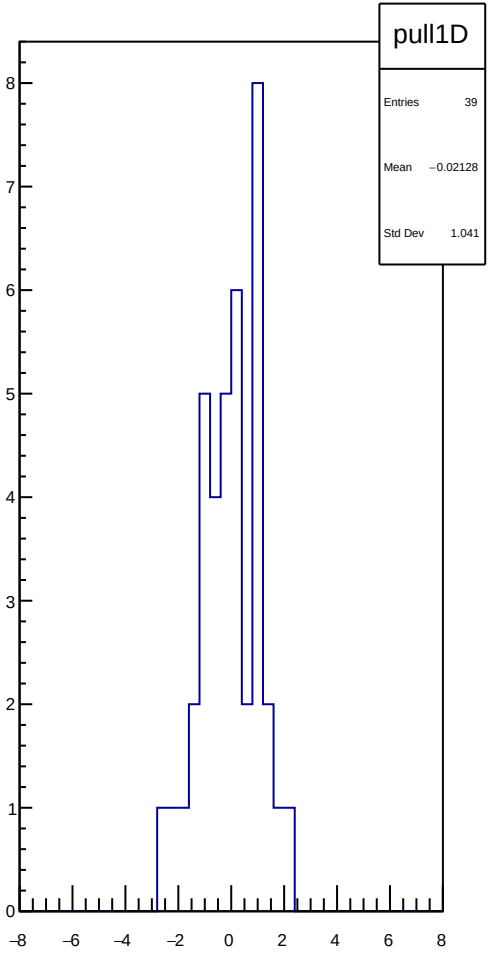

reg_asym_us_dd_rms vs run
χ² / ndf 39.38 / 38
p0 775.5 ± 0.8907
795
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_reg_correction_mean vs run
χ² / ndf 33.04 / 38
p0 −1057 ± 1054
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.531
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.03843
Std Dev 0.9196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_reg_correction_rms vs run
χ² / ndf 3.615e+04 / 38
p0 633.1 ± 0.7451
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_us_dd_mean vs run
χ² / ndf 42.27 / 38
p0 −631.9 ± 1260
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02128
Std Dev 1.041
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7
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5
4
3
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1
0
−8
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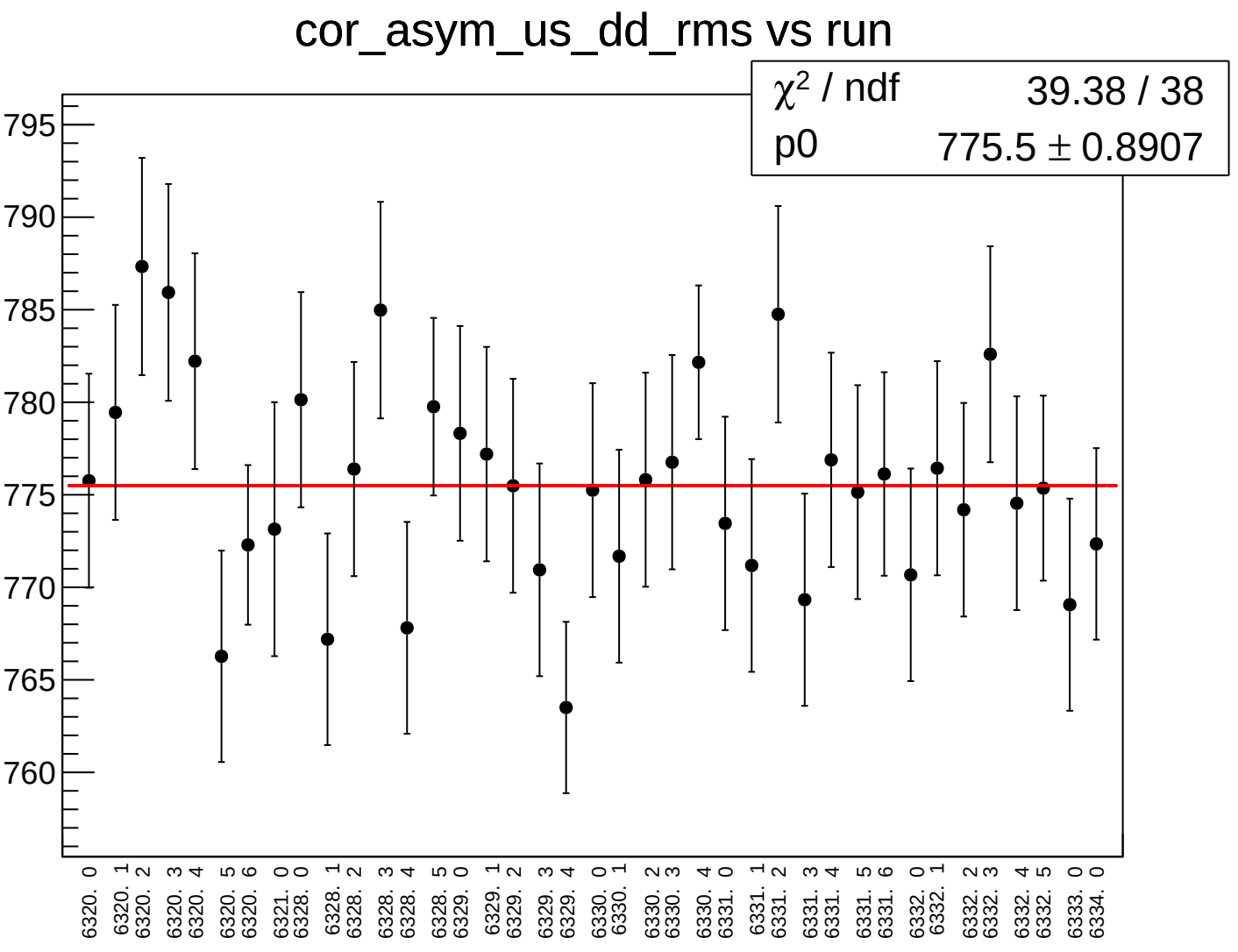
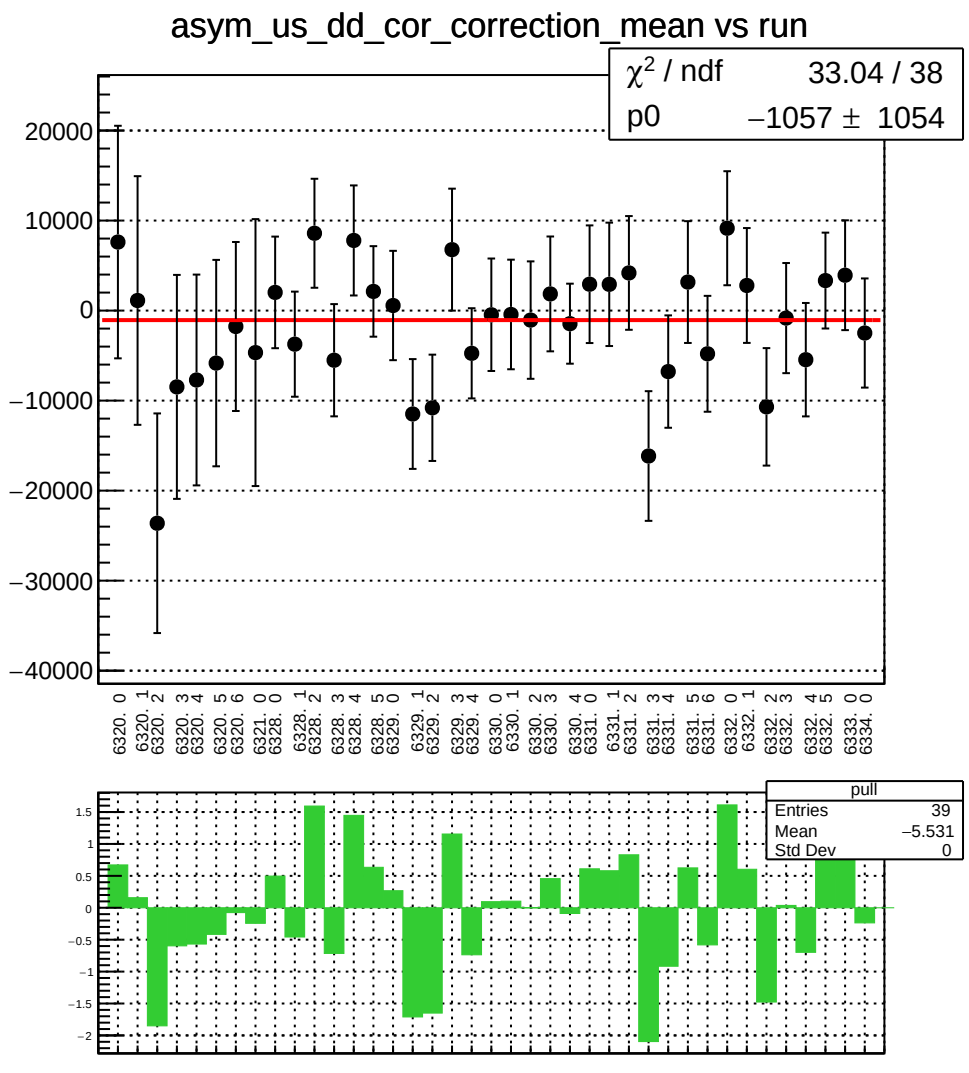
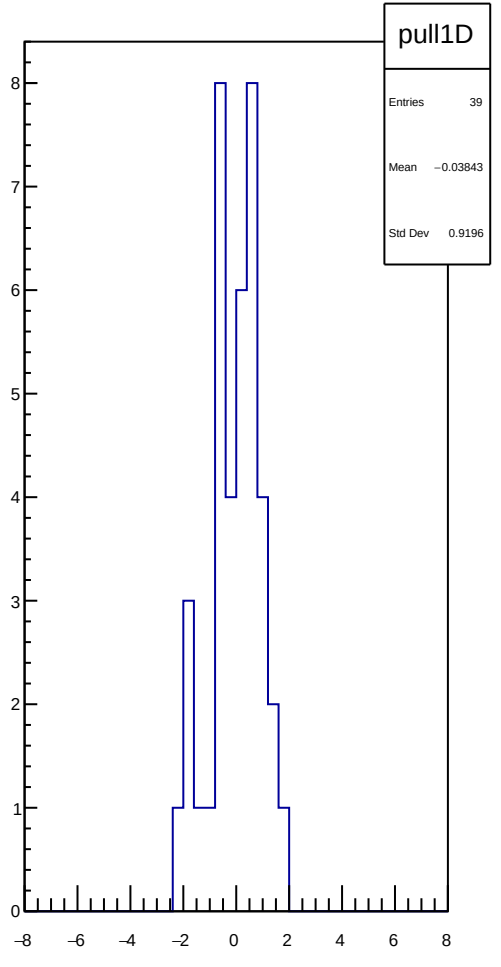
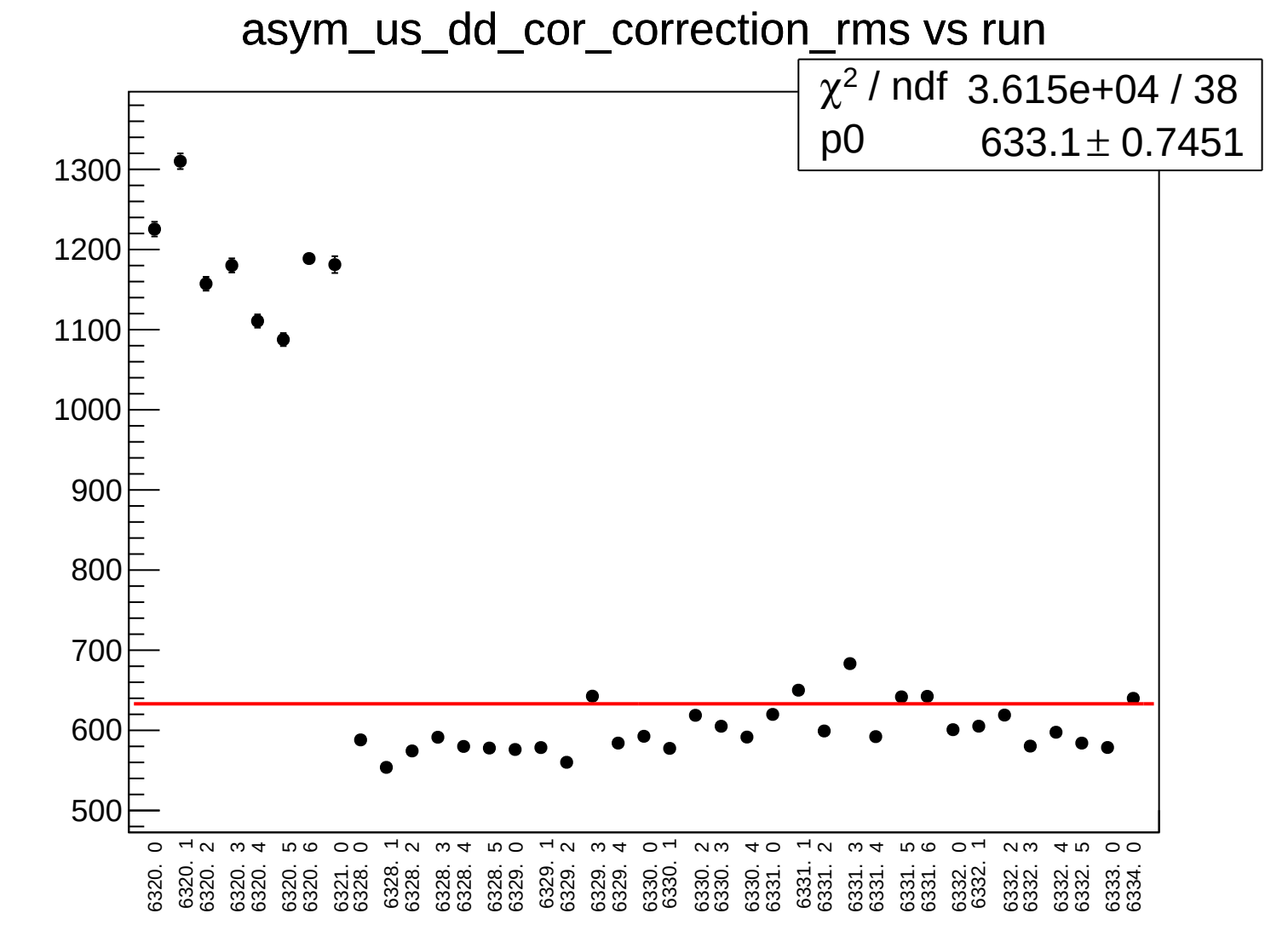
−4
−2
0
2
4
6
8


cor_asym_us_dd_rms vs run
χ² / ndf 39.38 / 38
p0 775.5 ± 0.8907
795
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_cor_correction_mean vs run
χ² / ndf 33.04 / 38
p0 −1057 ± 1054
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.531
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.03843
Std Dev 0.9196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 3.615e+04 / 38
p0 633.1 ± 0.7451
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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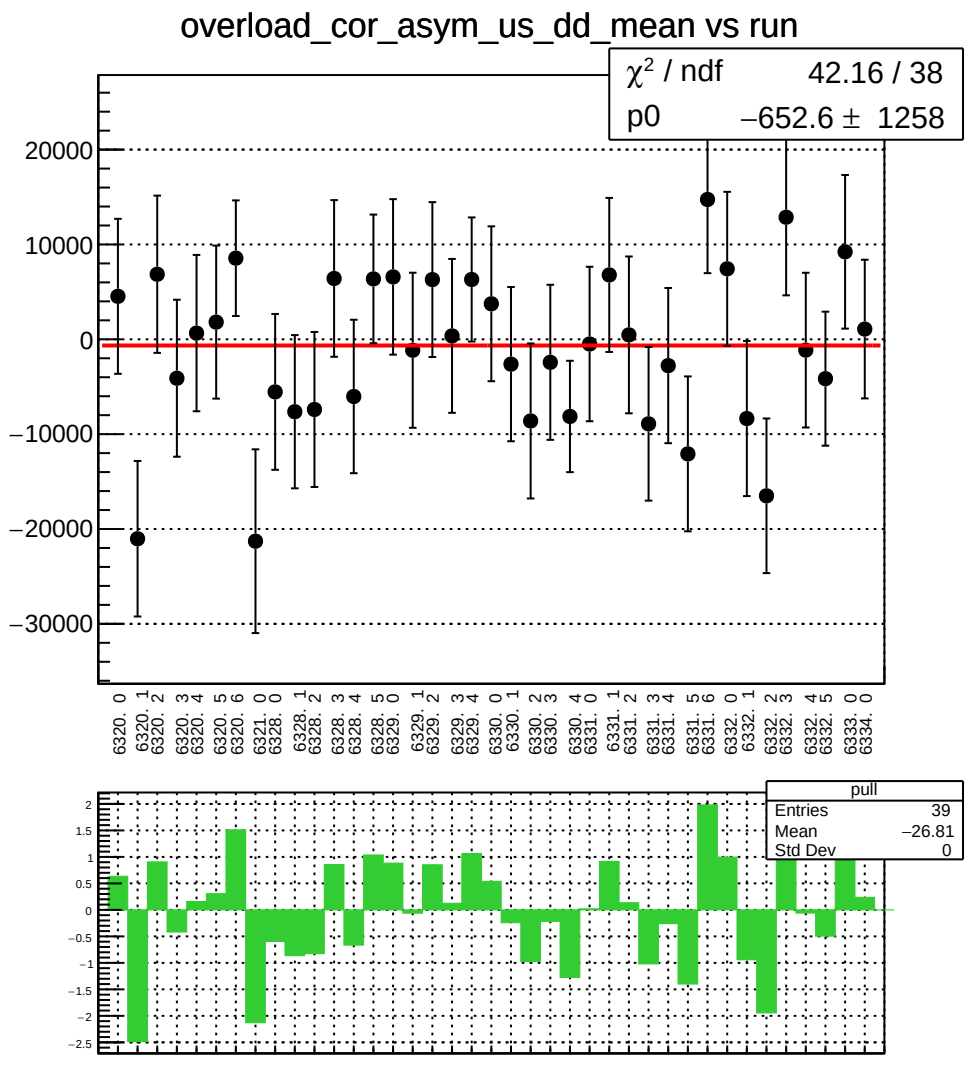
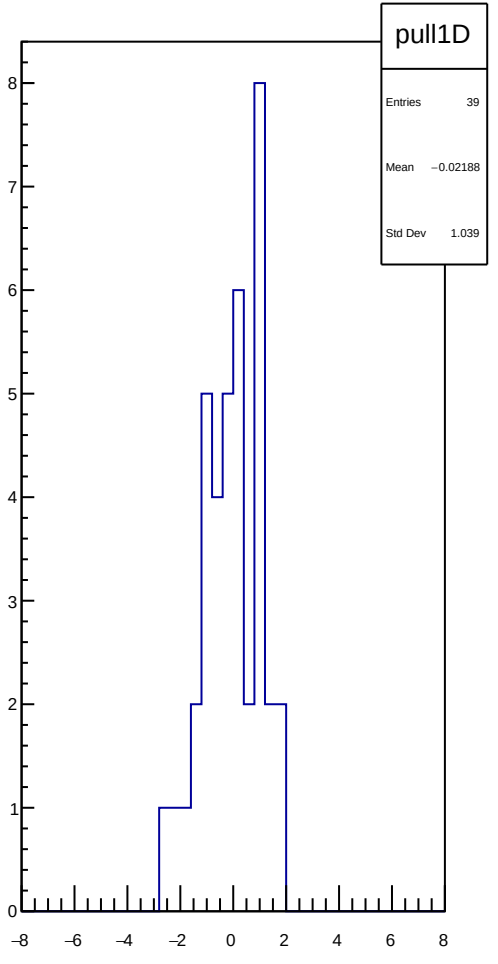
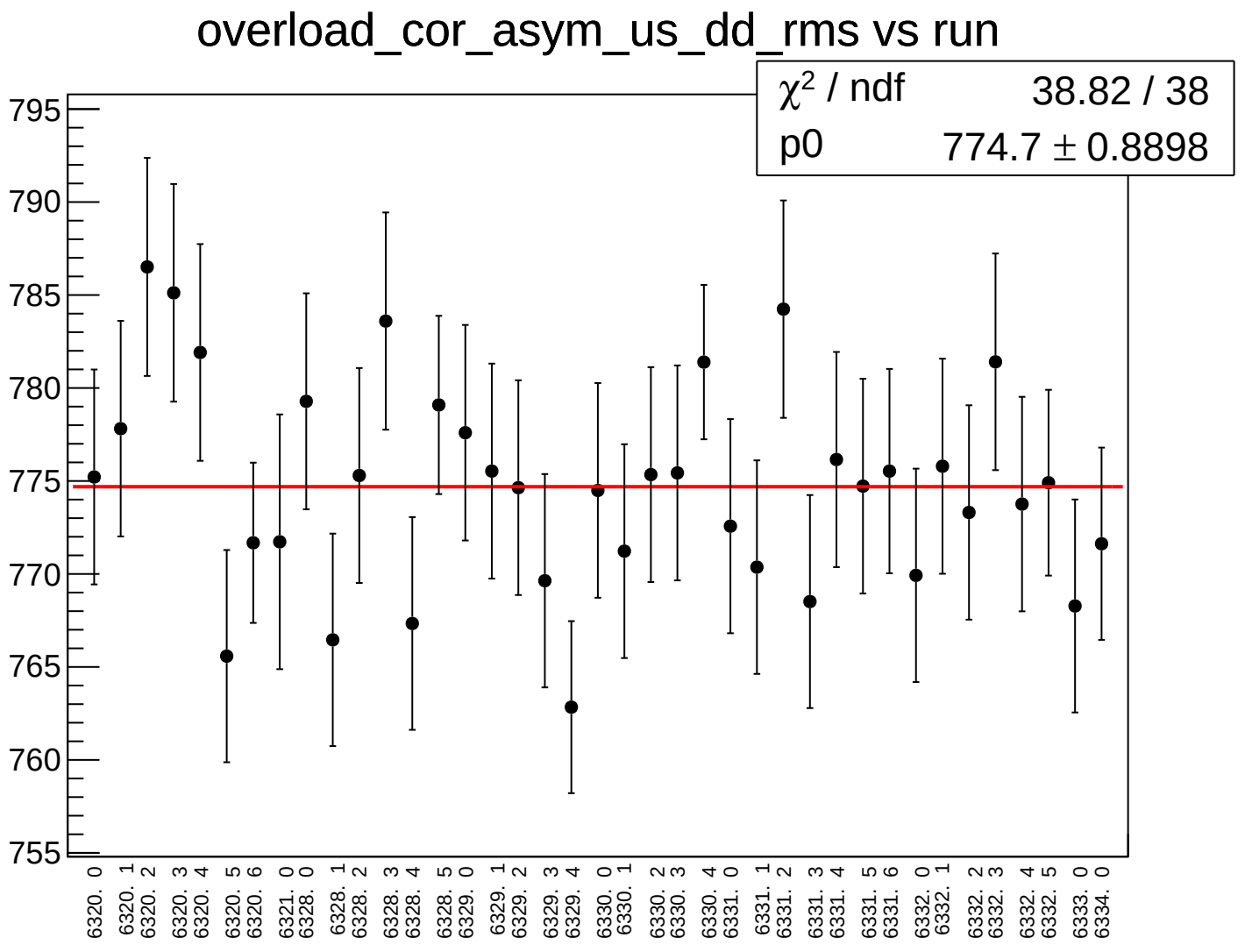
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


overload_cor_asym_us_dd_mean vs run
χ² / ndf 42.16 / 38
p0 −652.6 ± 1258
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02188
Std Dev 1.039
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 38.82 / 38
p0 774.7 ± 0.8898
795
790
785
780
775
770
765
760
755
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
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6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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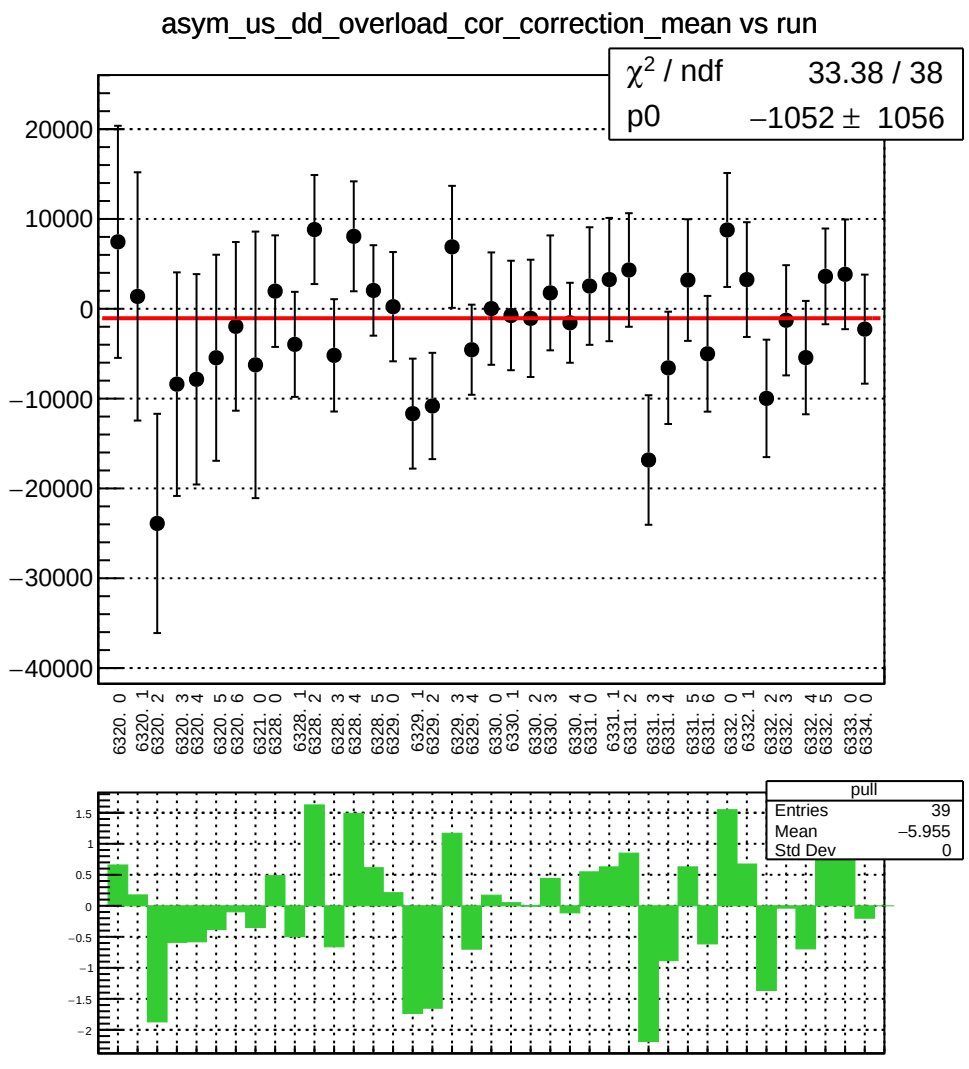
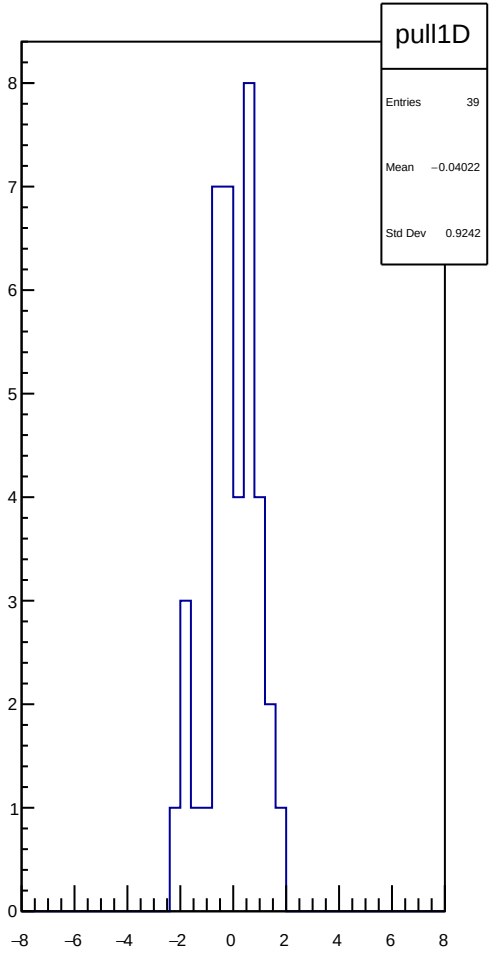
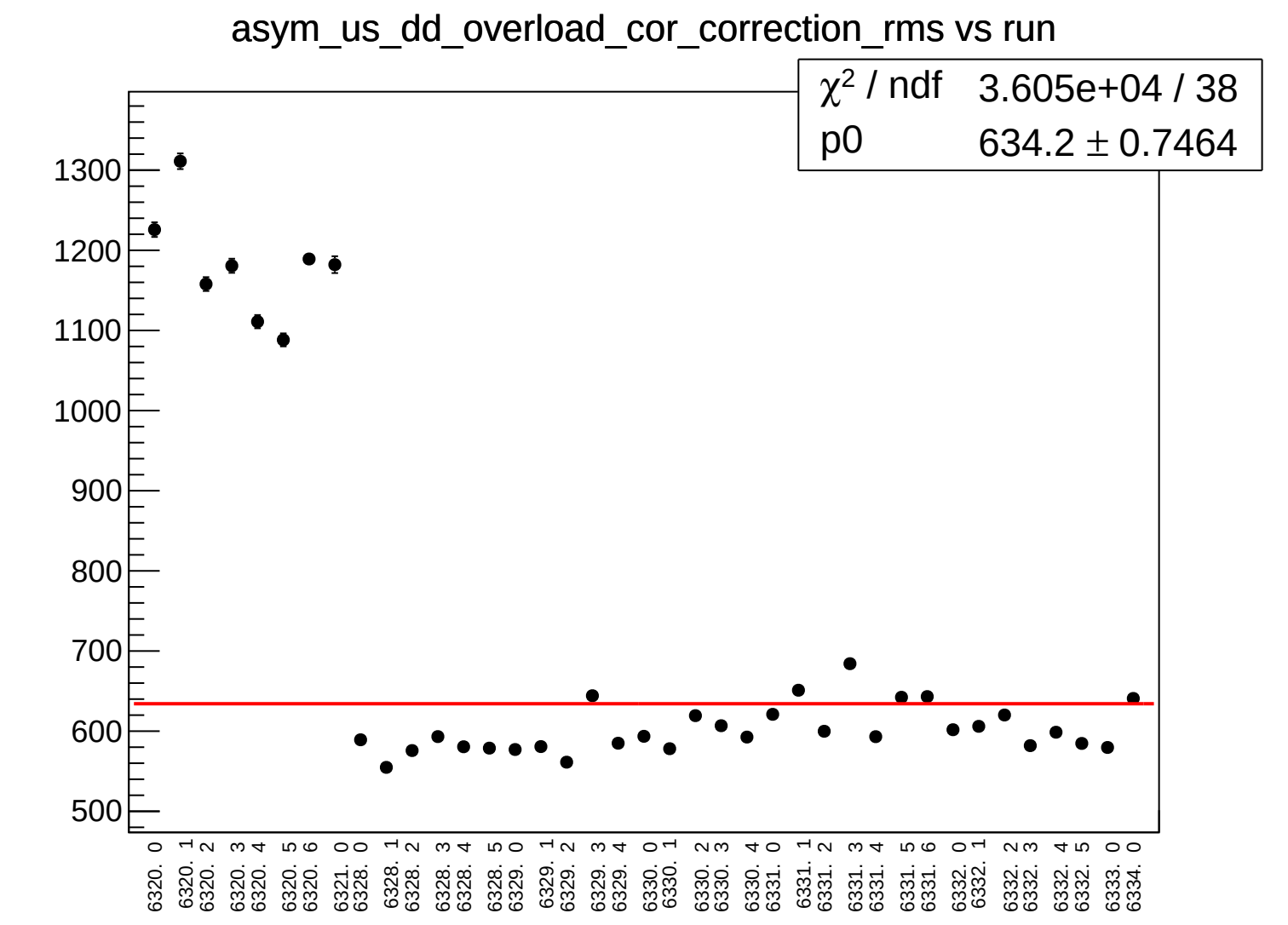
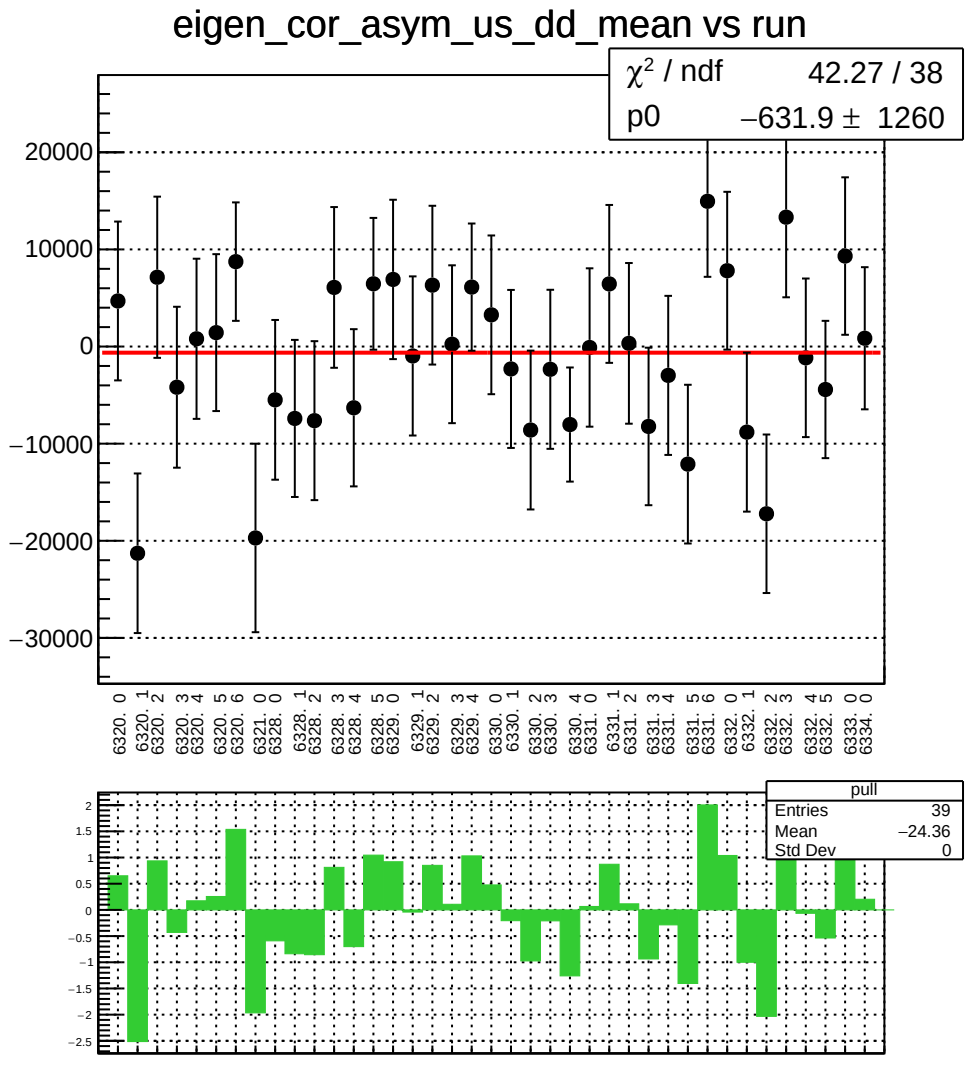
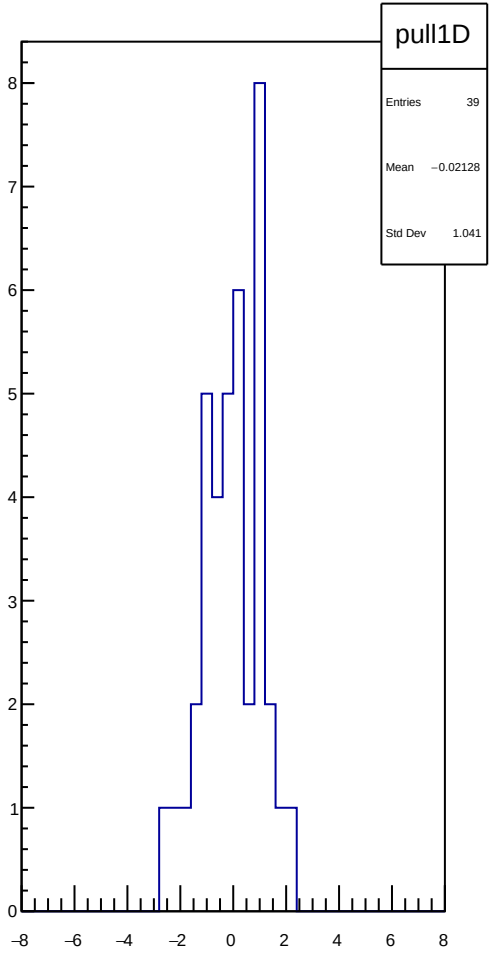
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

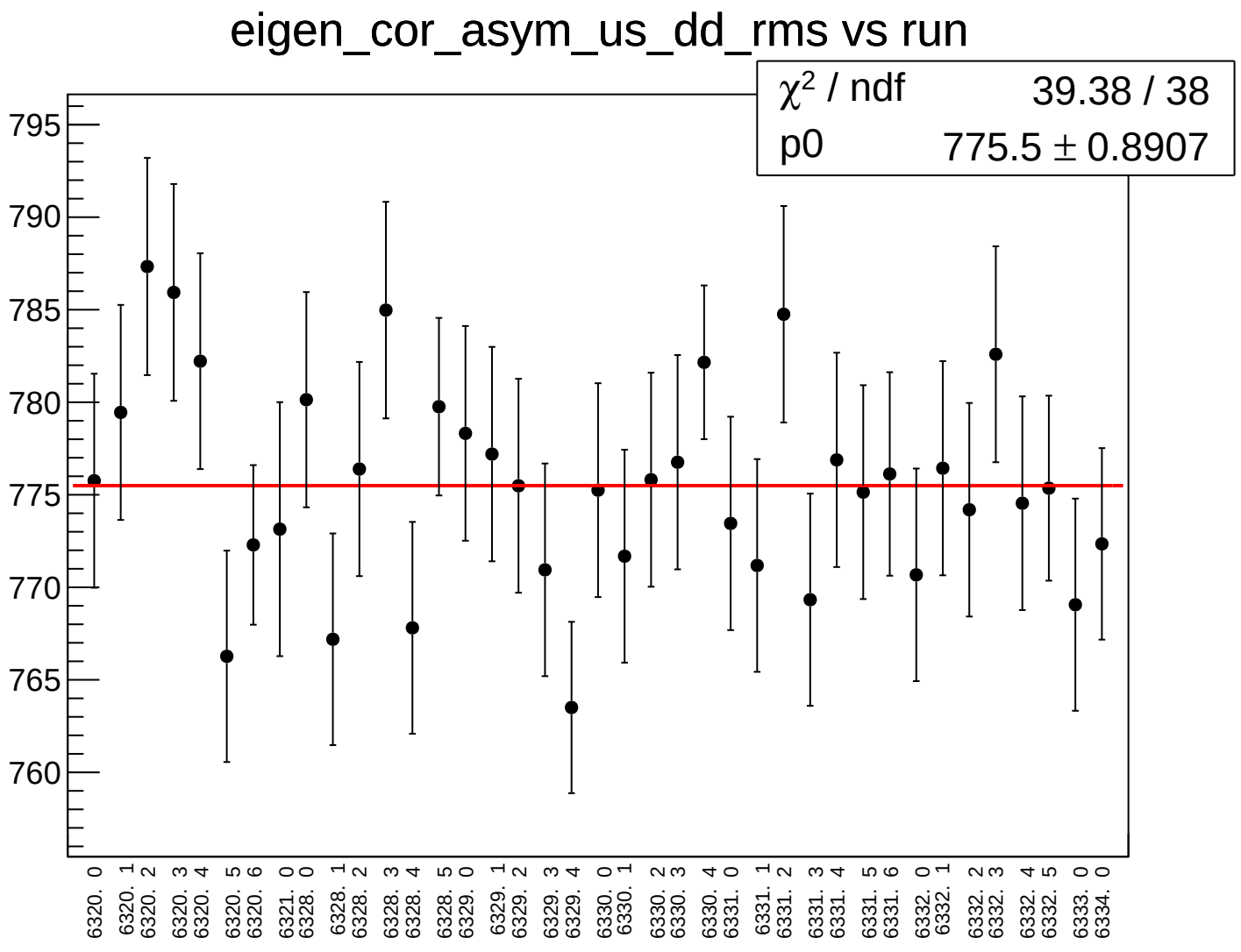

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 33.38 / 38
p0 −1052 ± 1056
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.955
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.04022
Std Dev 0.9242
8
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 3.605e+04 / 38
p0 634.2 ± 0.7464
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 42.27 / 38
p0 −631.9 ± 1260
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02128
Std Dev 1.041
8
7
6
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 39.38 / 38
p0 775.5 ± 0.8907
795
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 0
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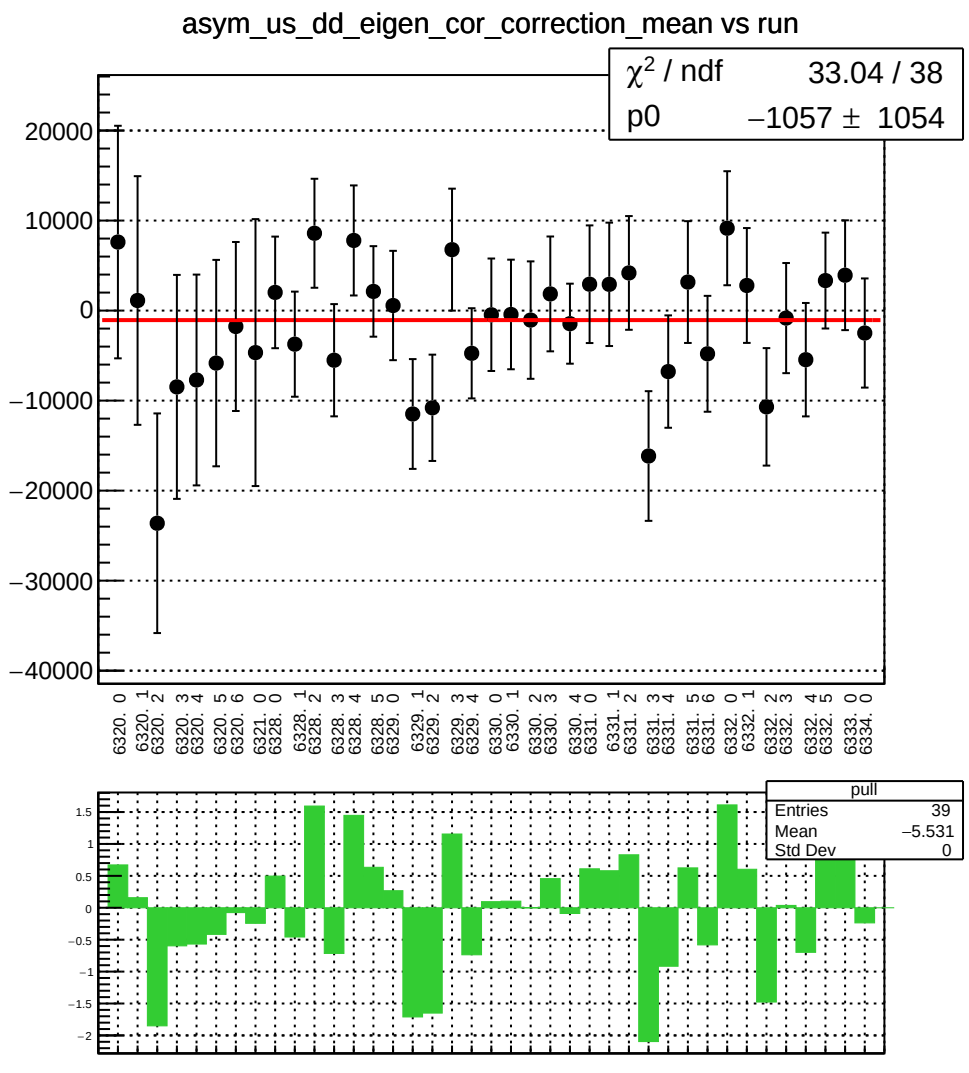
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.04 / 38
p0 −1057 ± 1054
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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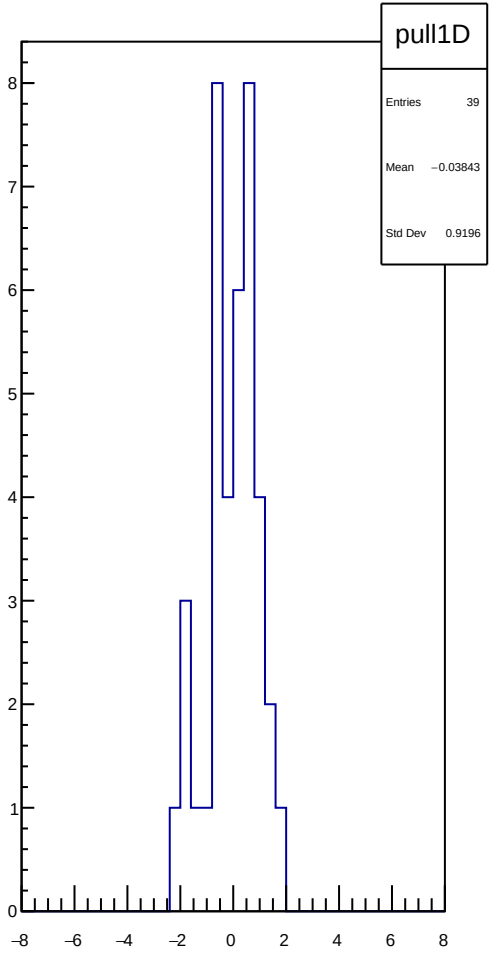
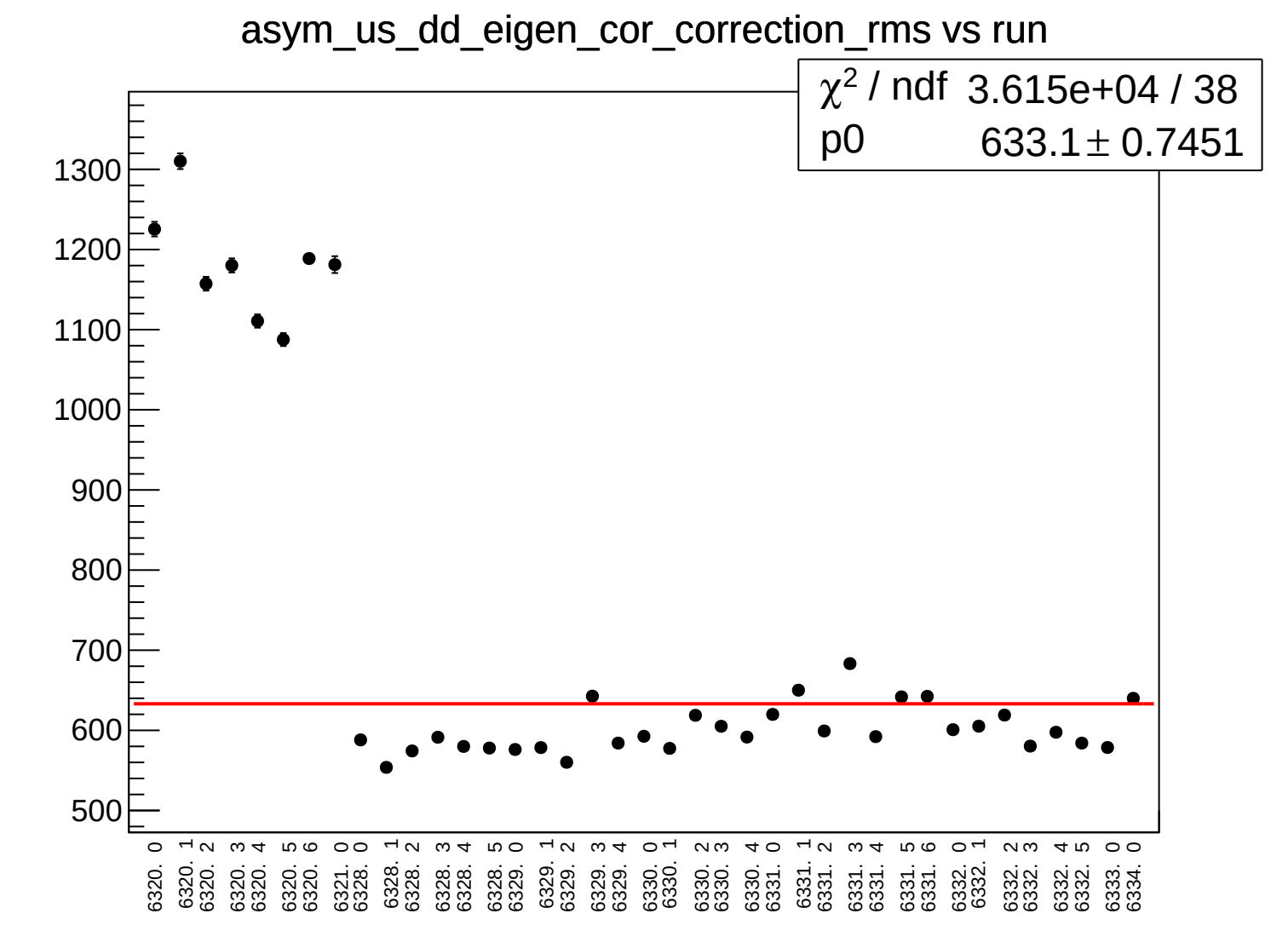
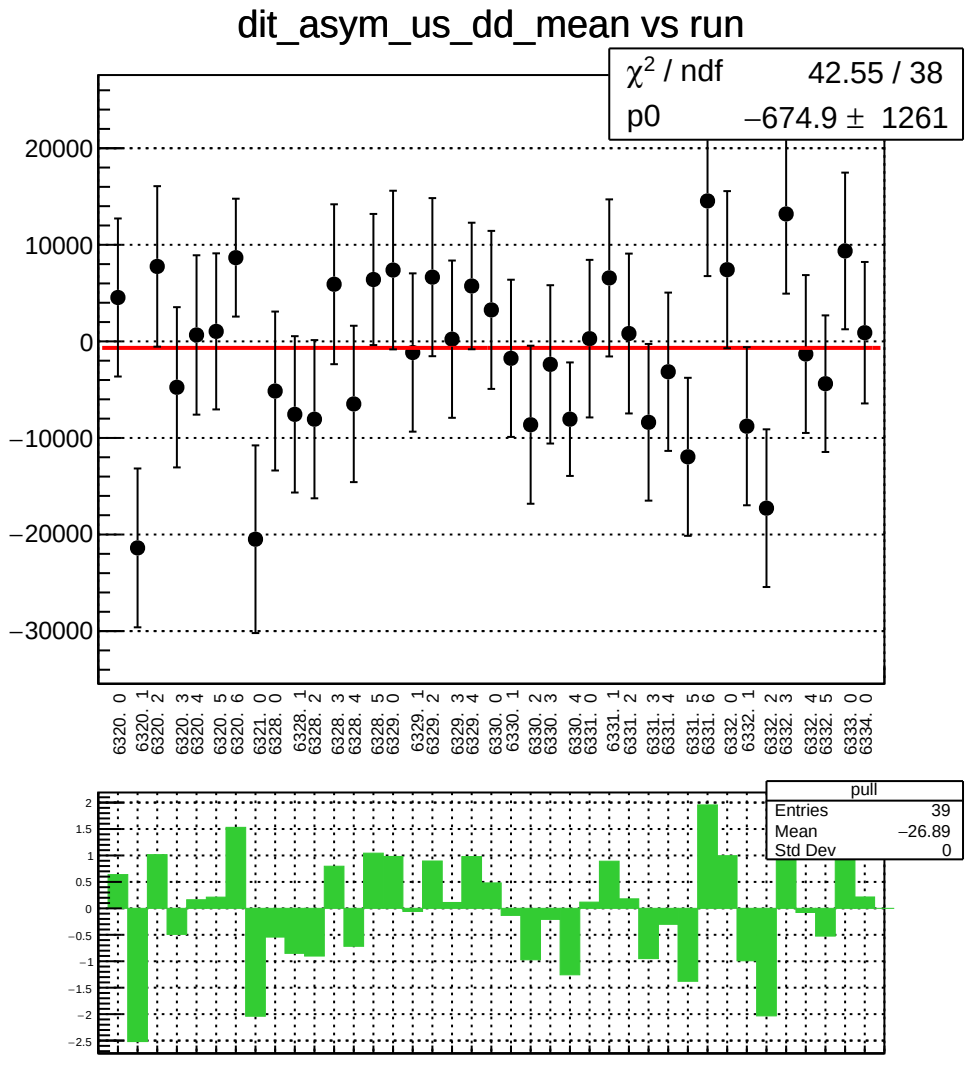
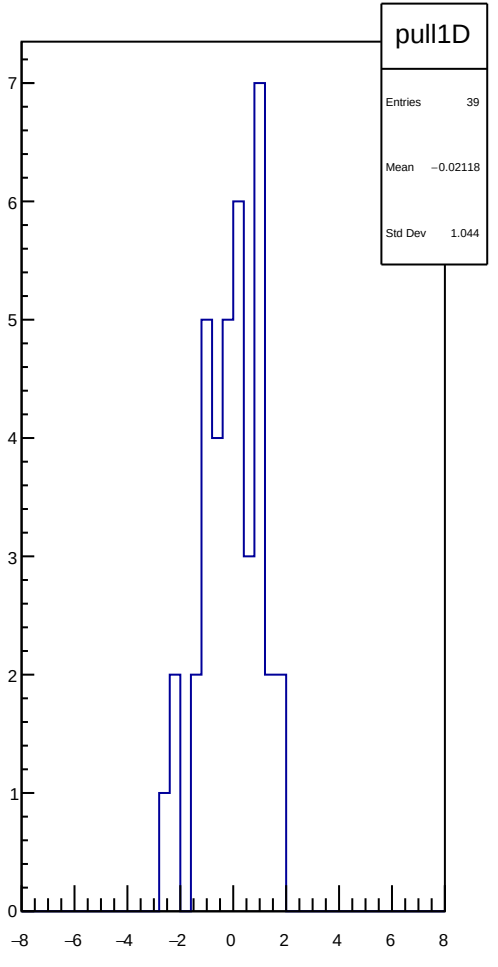
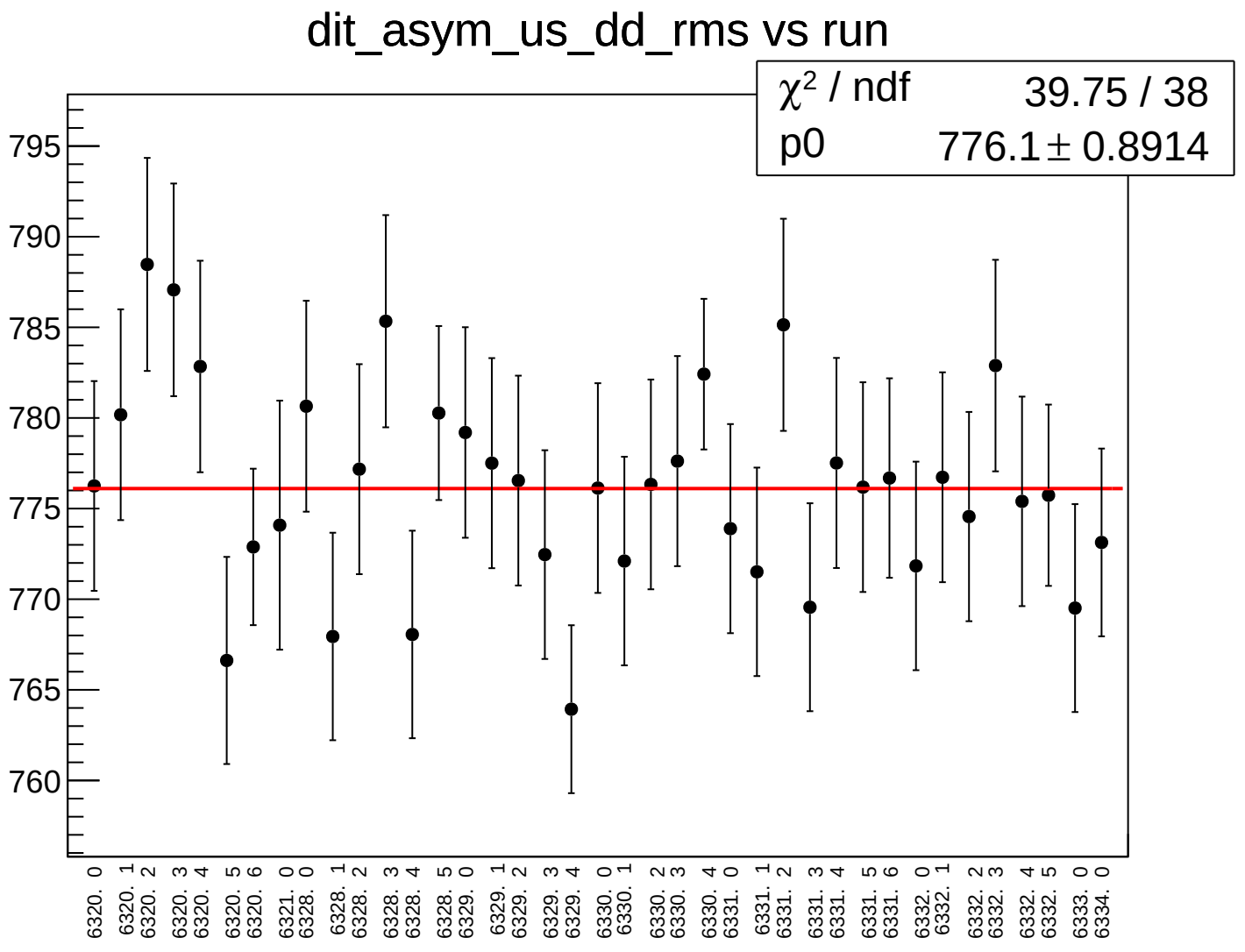
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.531
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

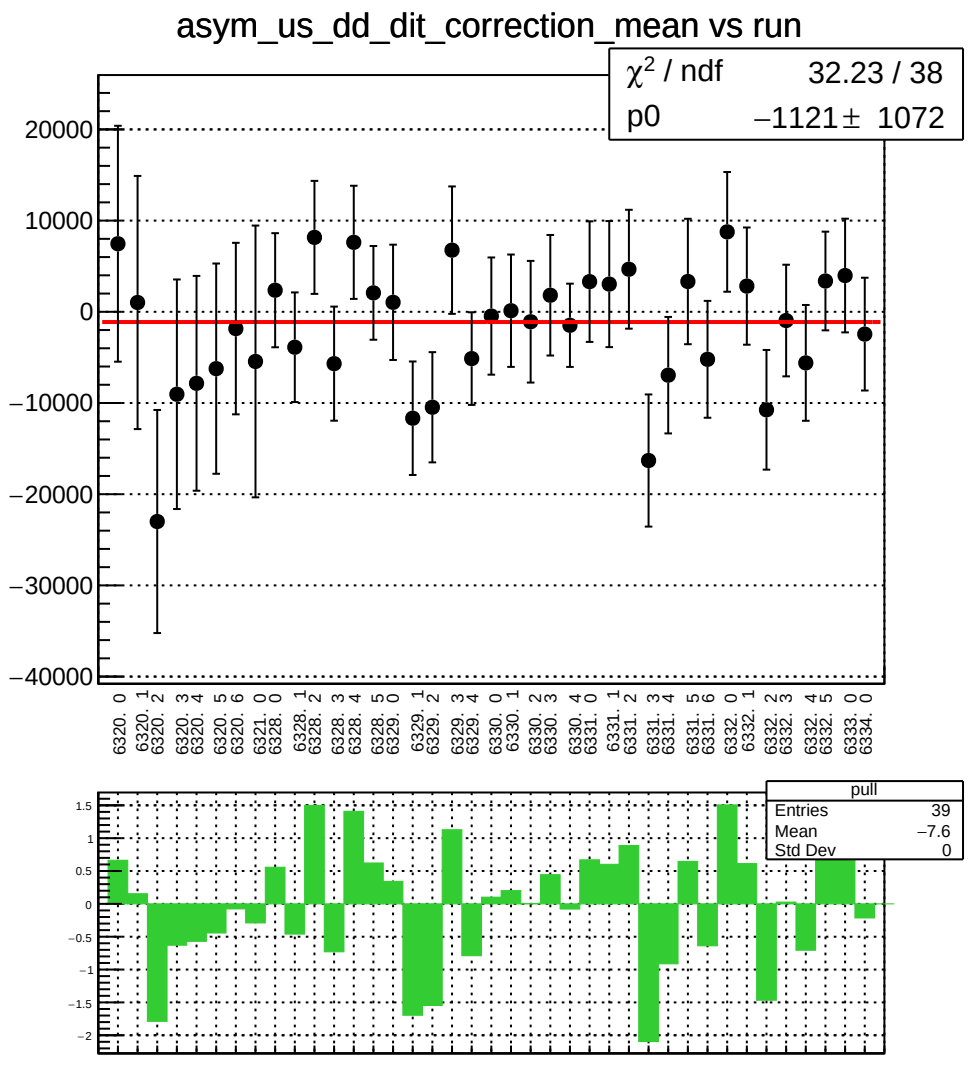

pull1D
Entries 39
Mean −0.03843
Std Dev 0.9196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

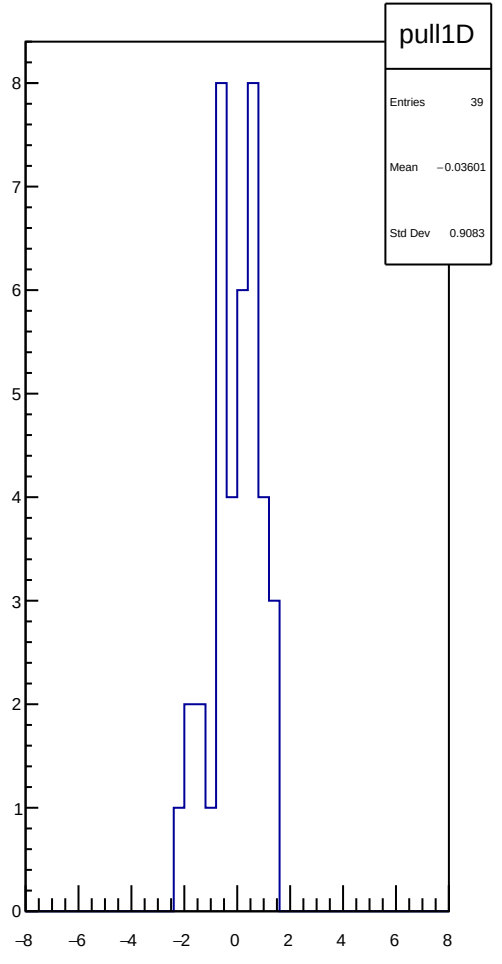

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.615e+04 / 38
p0 633.1 ± 0.7451
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

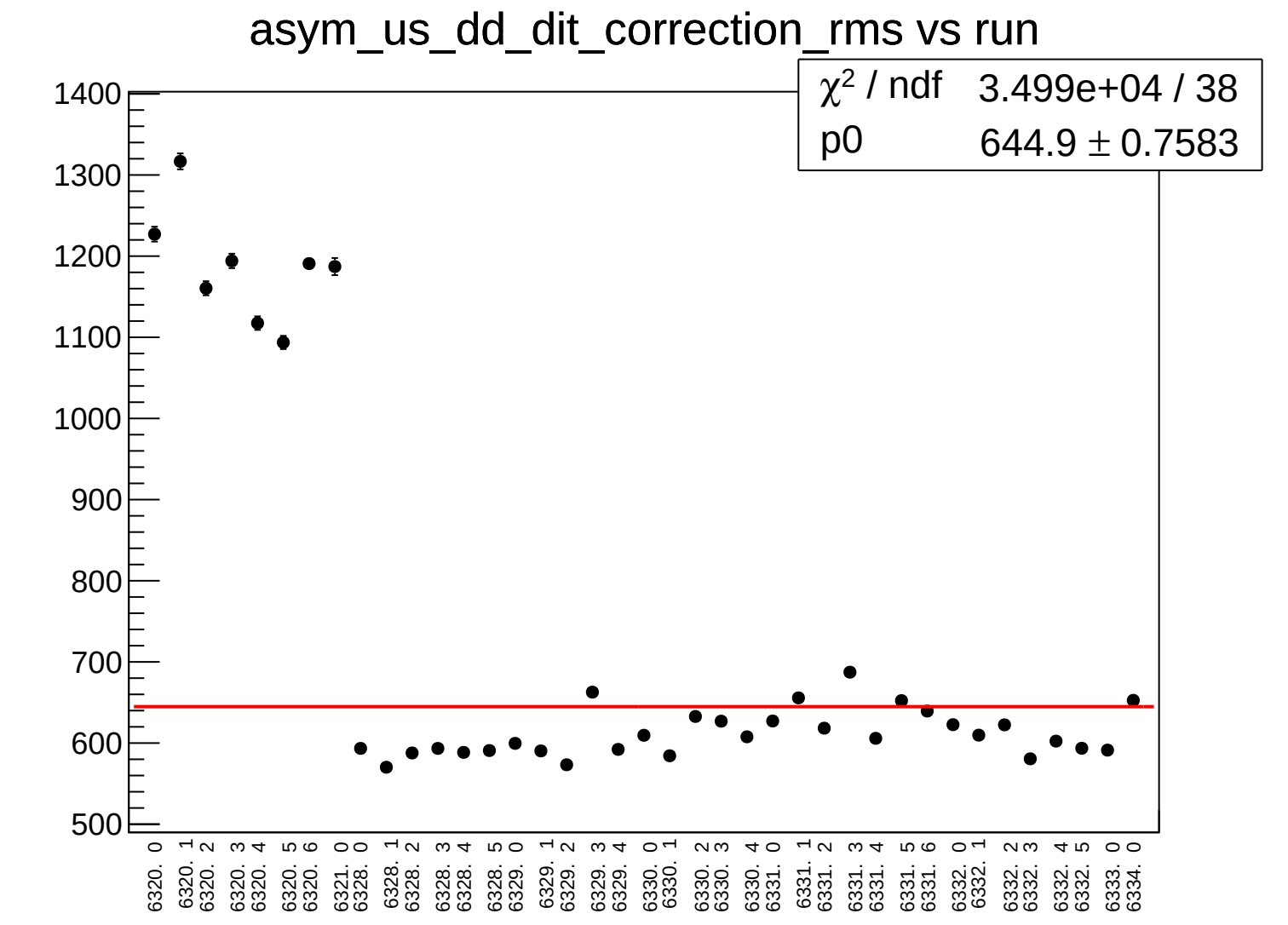

dit_asym_us_dd_mean vs run
χ² / ndf 42.55 / 38
p0 −674.9 ± 1261
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

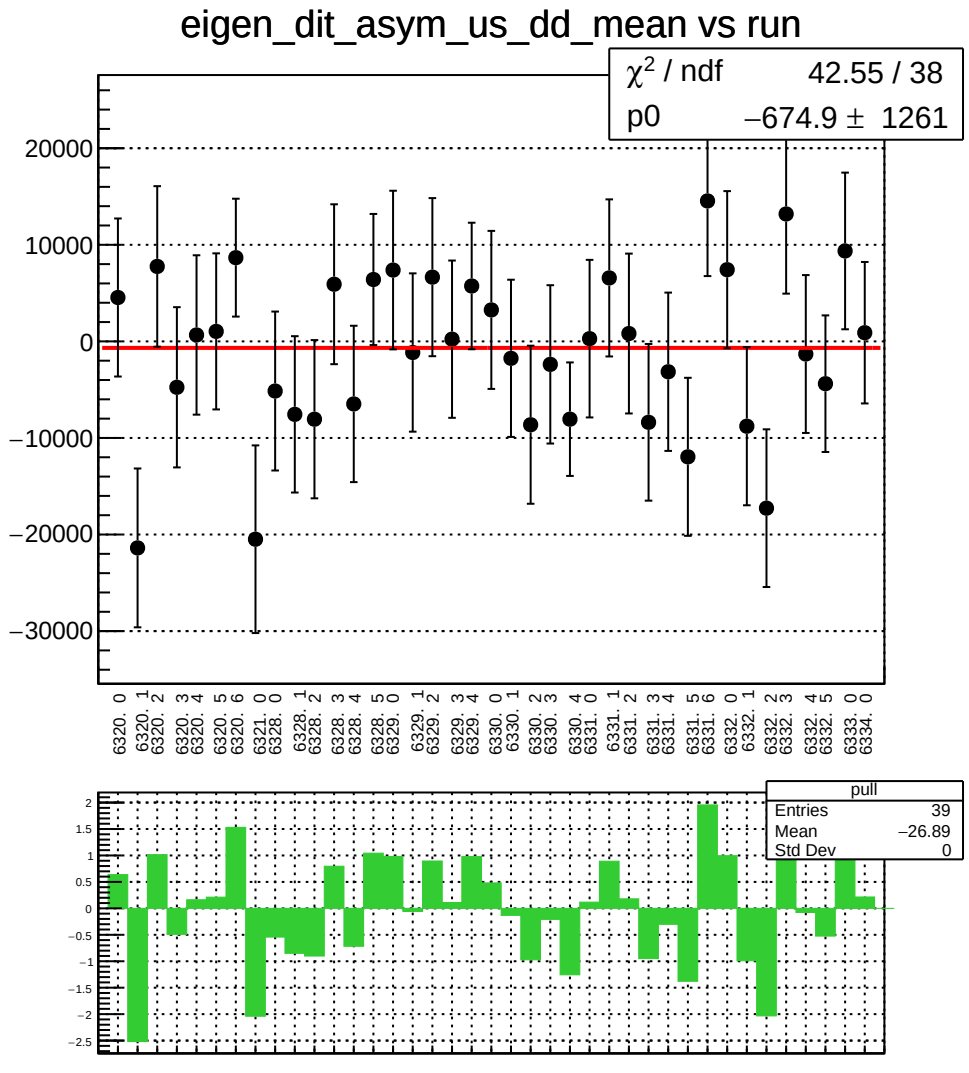

pull1D
Entries 39
Mean −0.02118
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

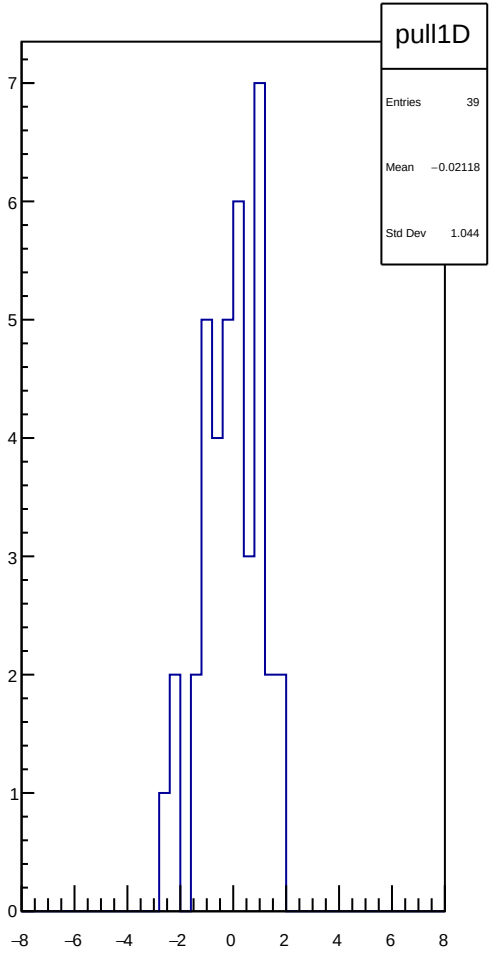

dit_asym_us_dd_rms vs run
χ² / ndf 39.75 / 38
p0 776.1 ± 0.8914
795
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

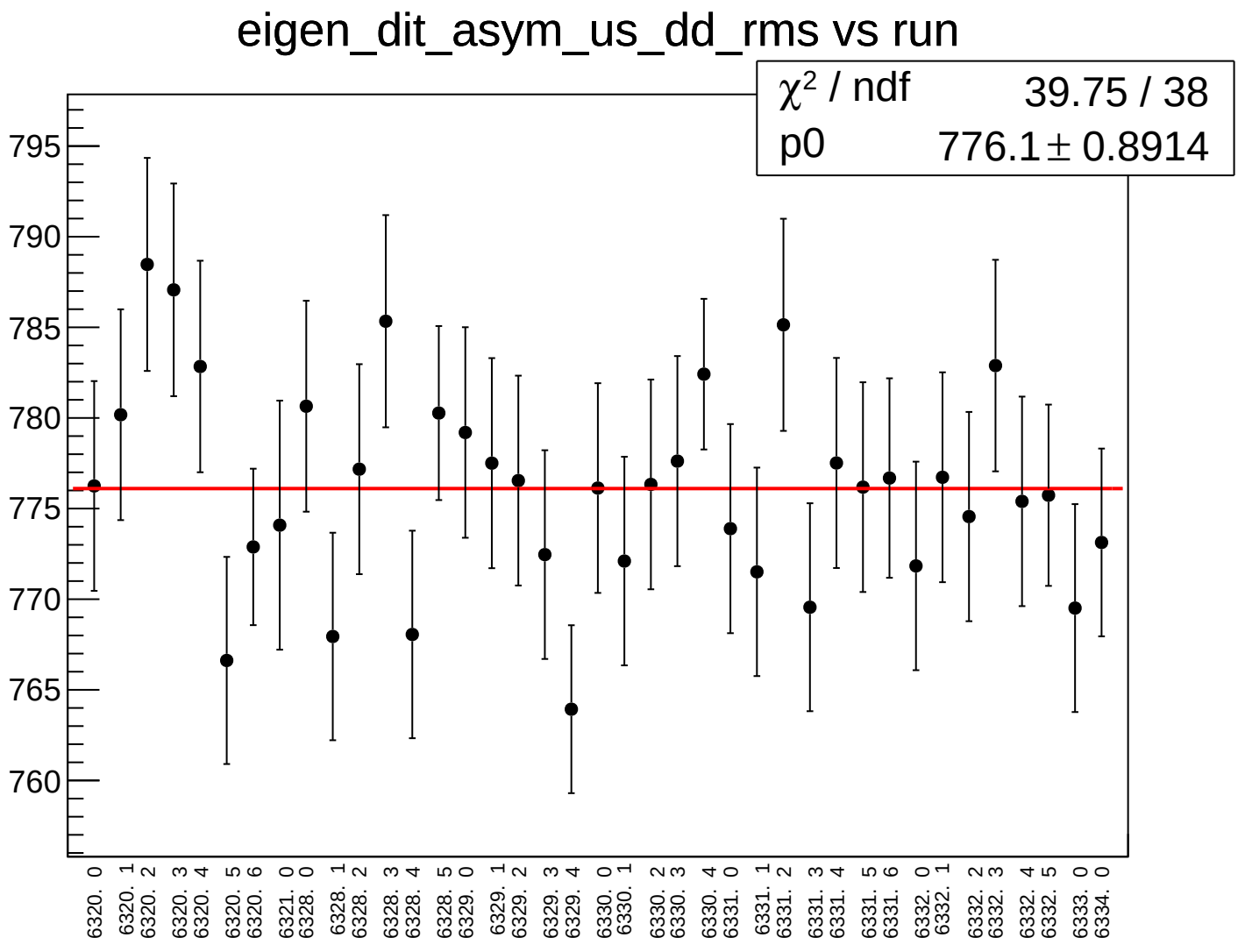

asym_us_dd_dit_correction_mean vs run
χ² / ndf 32.23 / 38
p0 −1121 ± 1072
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

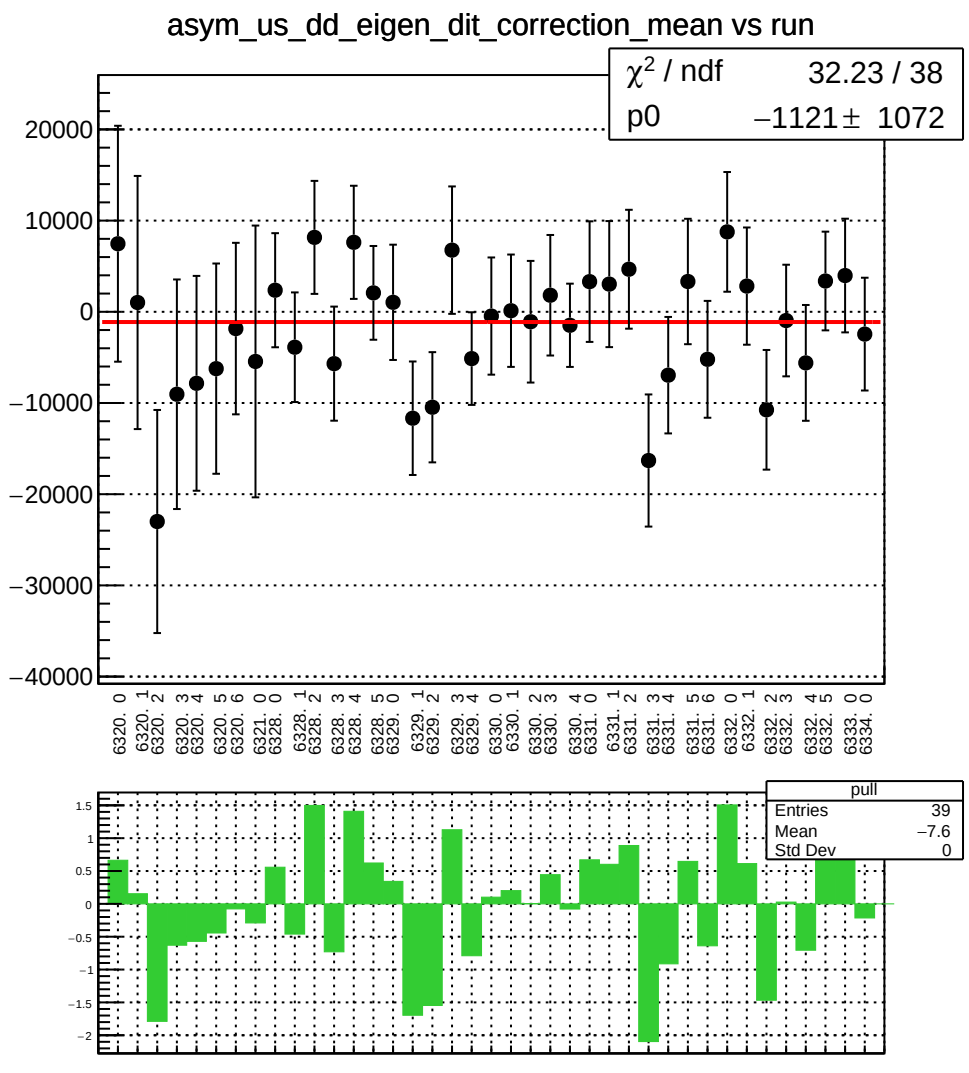

pull1D
Entries 39
Mean −0.03601
Std Dev 0.9083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

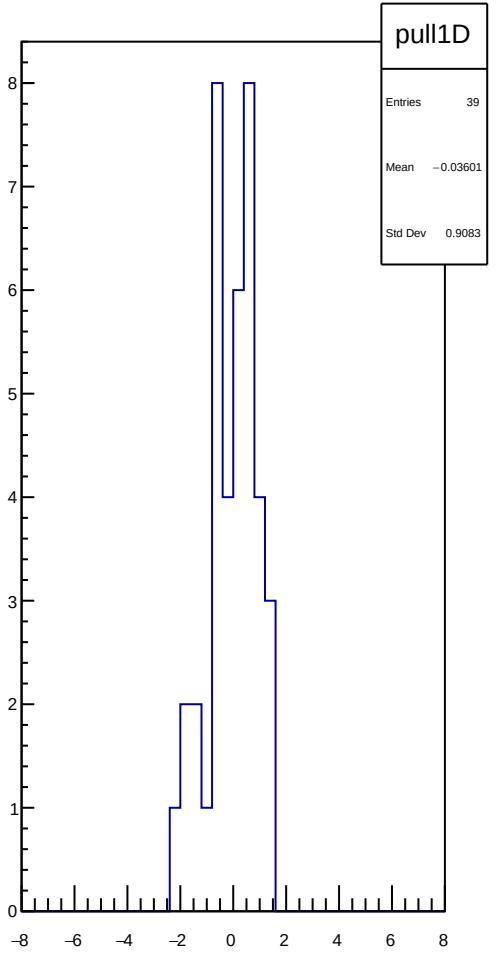

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3.499e+04 / 38
p0 644.9 ± 0.7583
1400
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

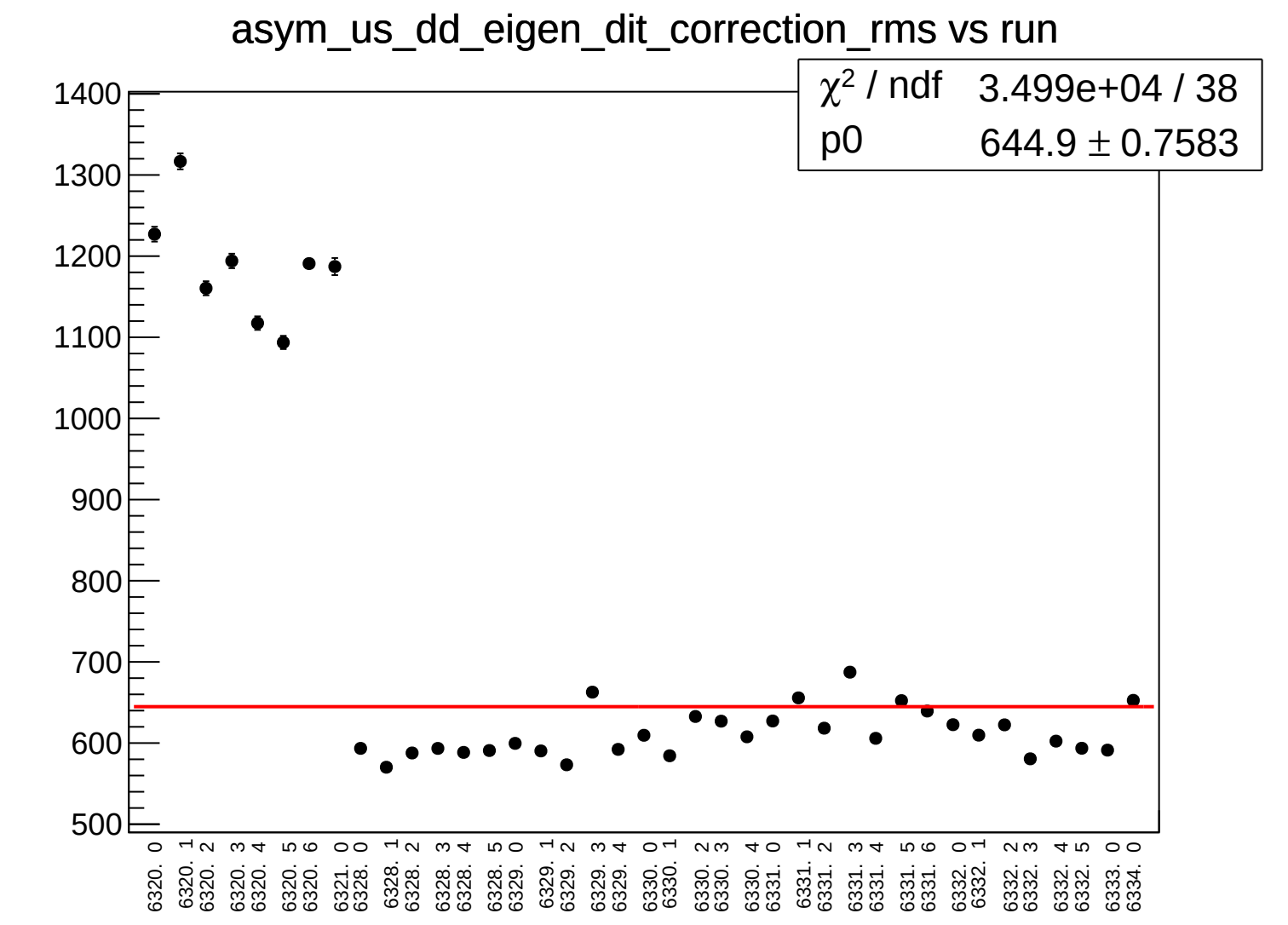

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 42.55 / 38
p0 −674.9 ± 1261
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

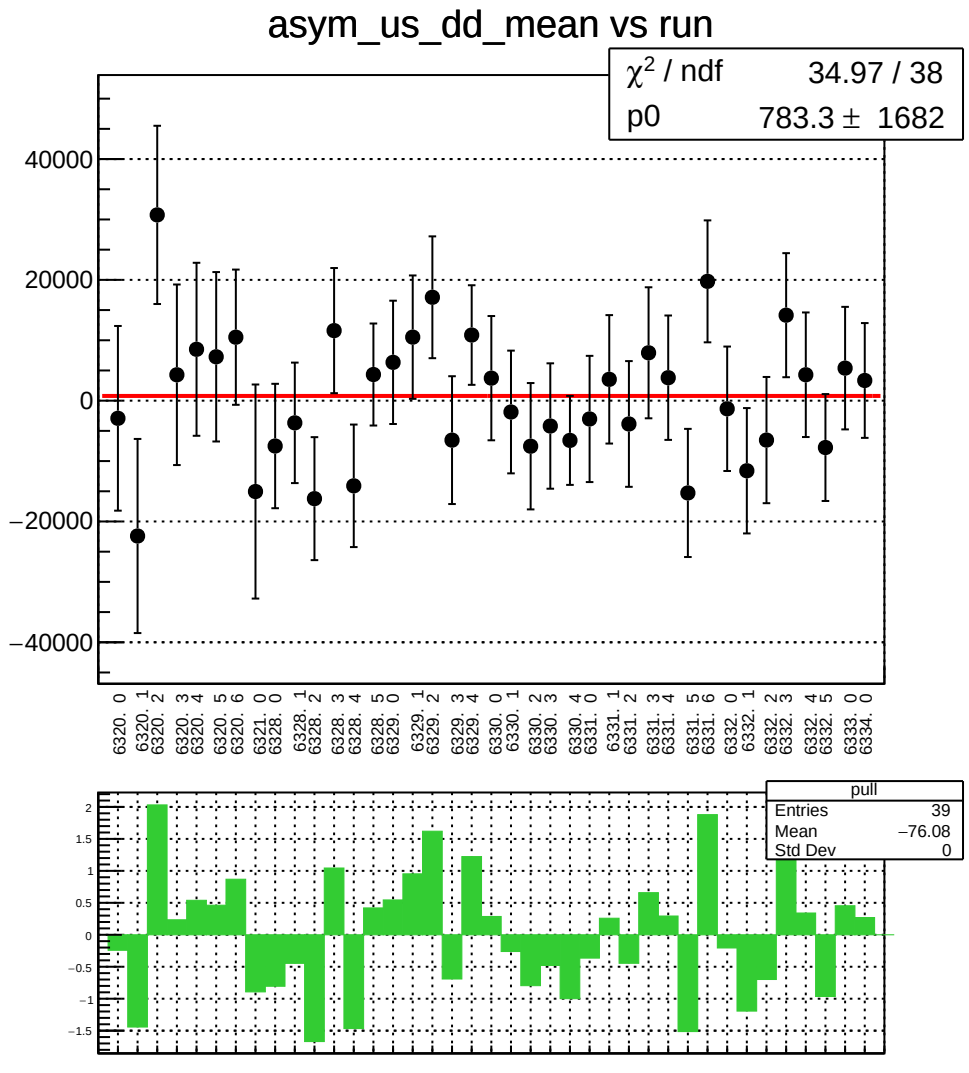

pull1D
Entries 39
Mean −0.02118
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

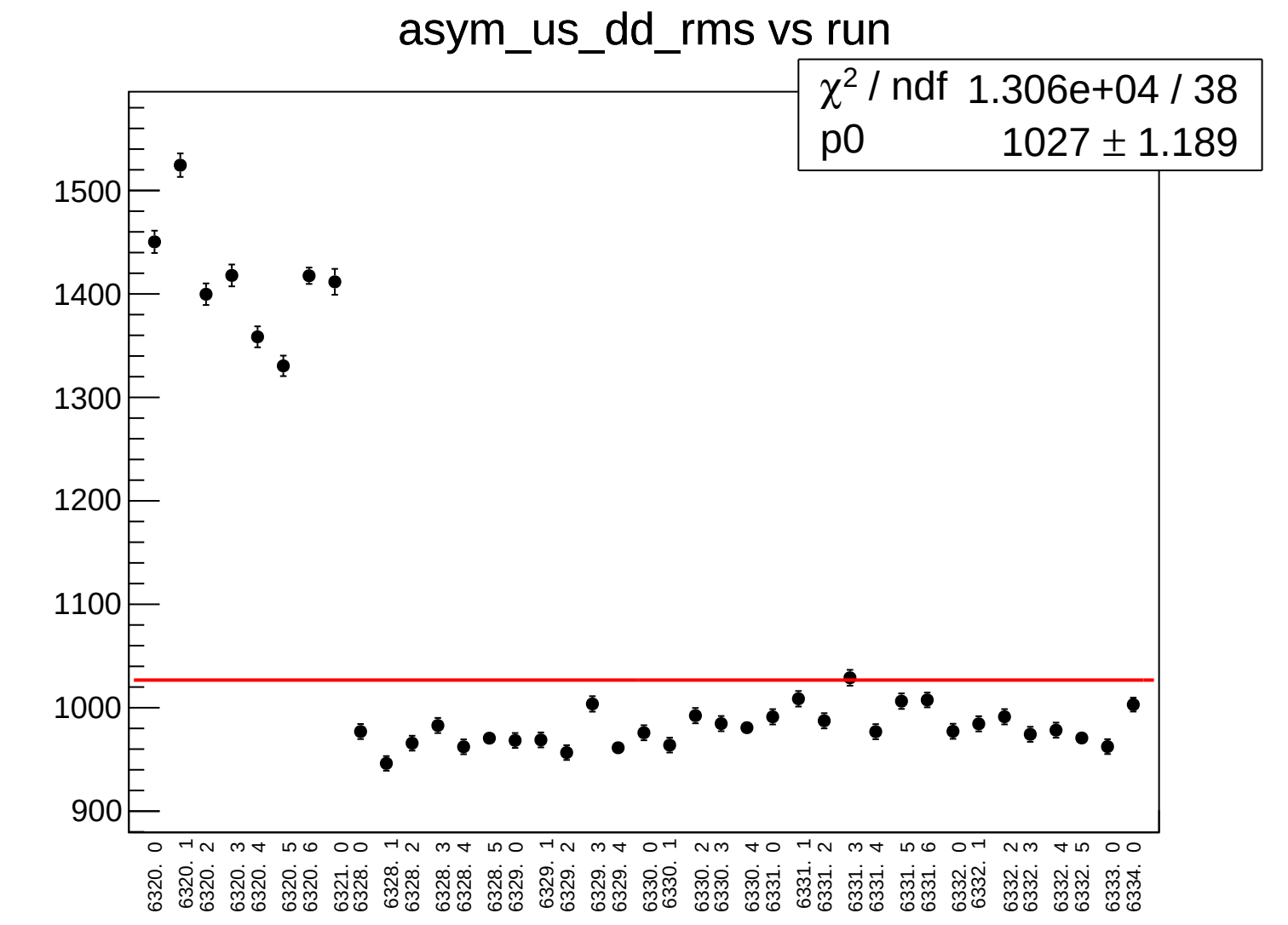

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 39.75 / 38
p0 776.1 ± 0.8914
795
790
785
780
775
770
765
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

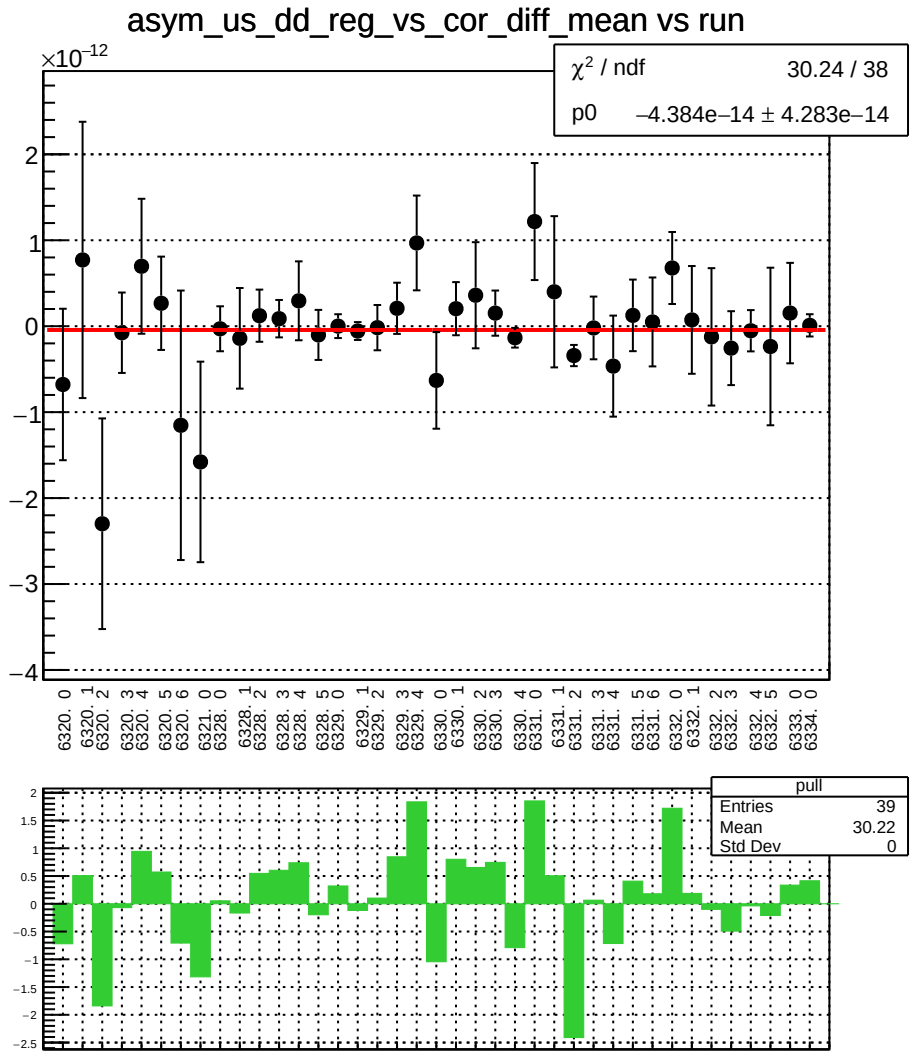

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.23 / 38
p0 −1121 ± 1072
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

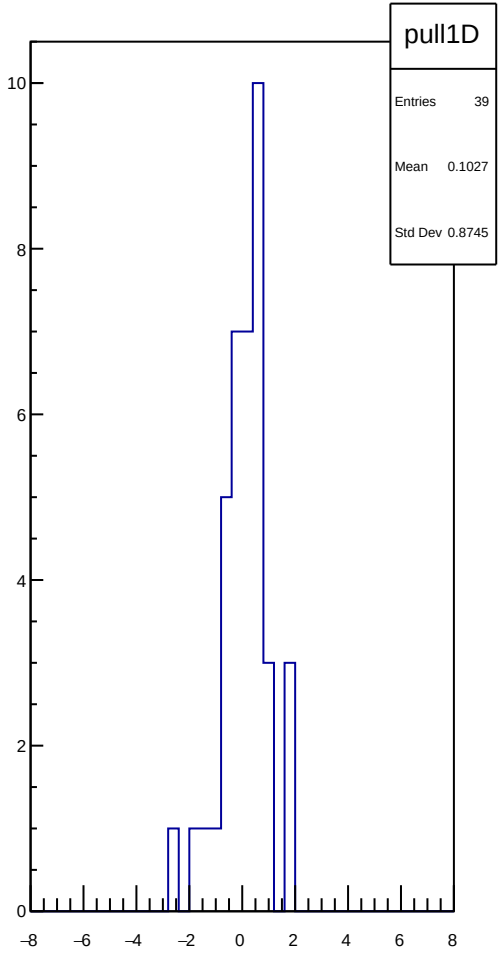

pull1D
Entries 39
Mean −0.03601
Std Dev 0.9083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

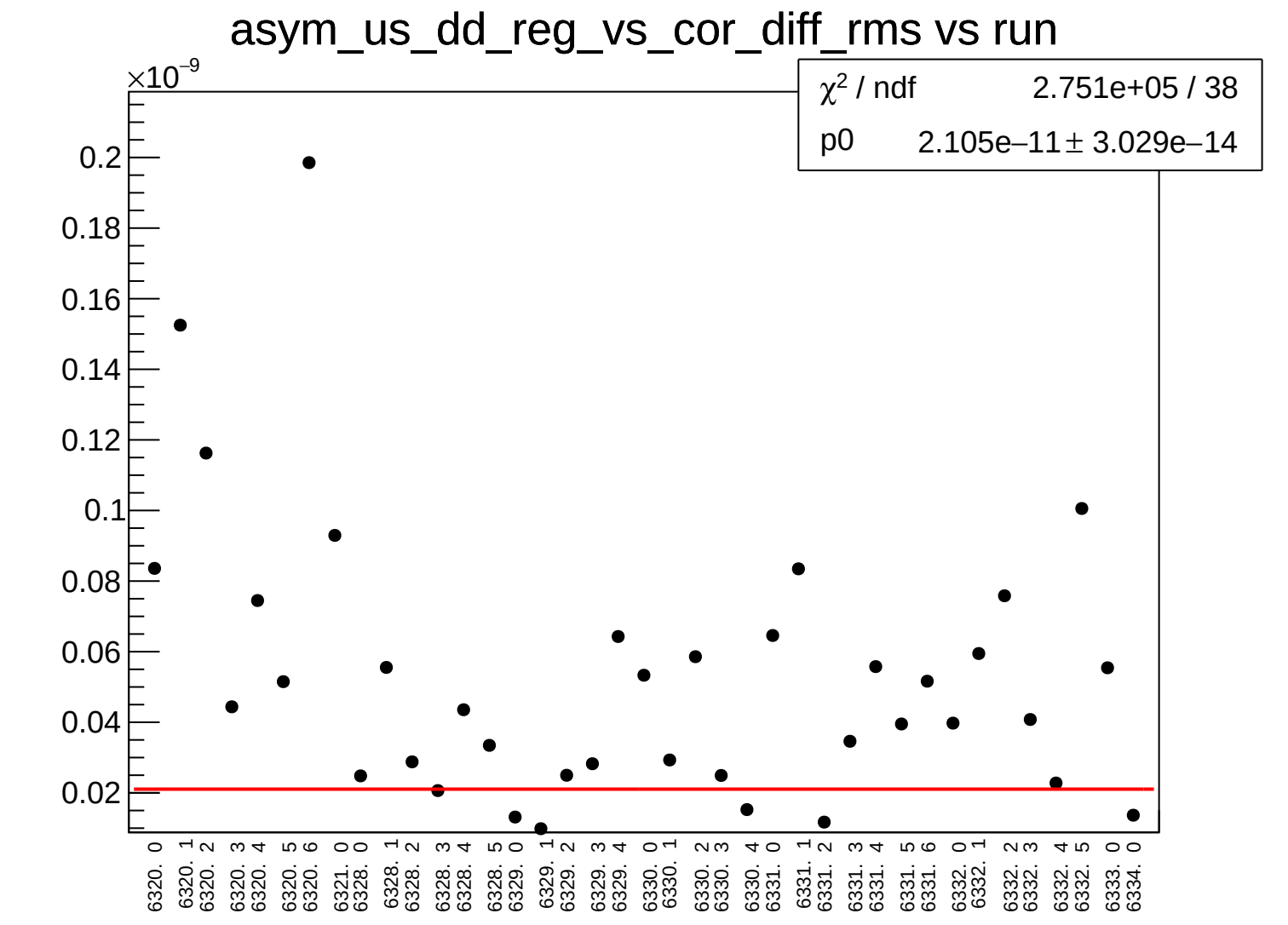

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.499e+04 / 38
p0 644.9 ± 0.7583
1400
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

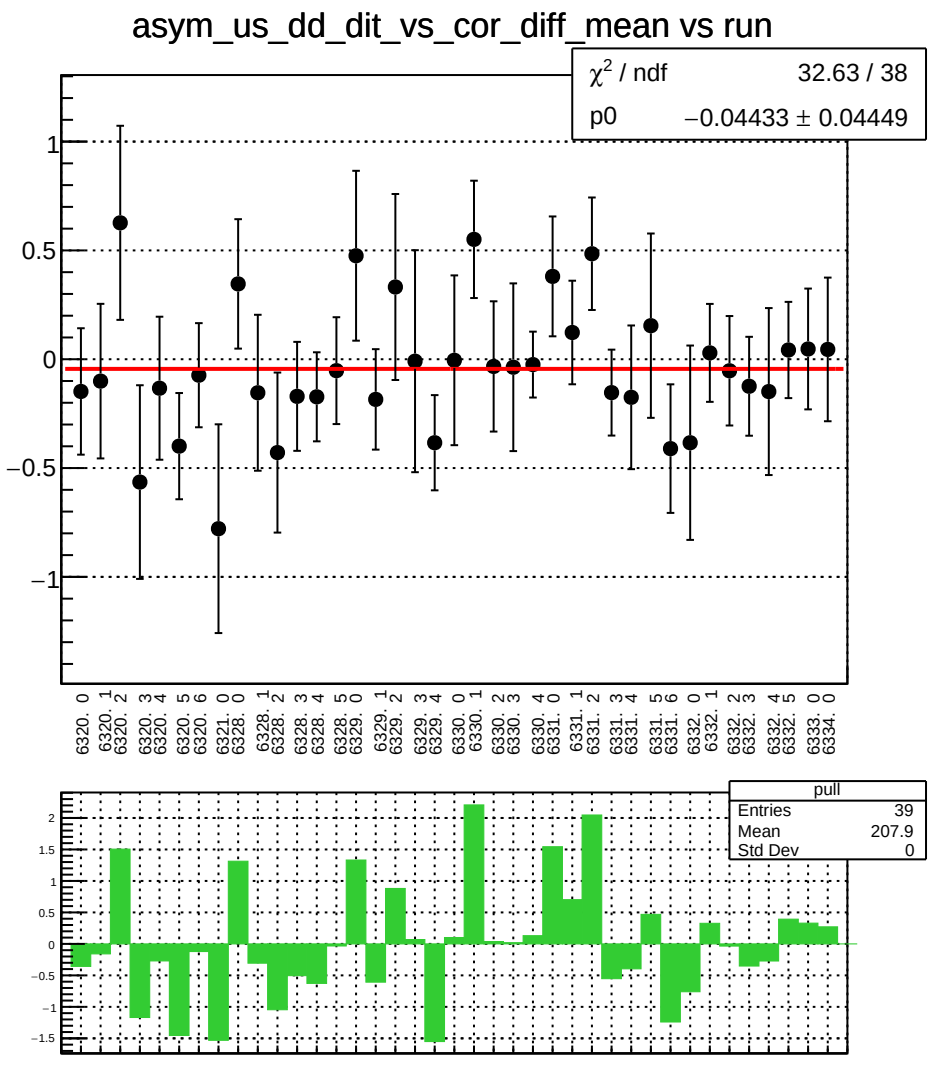

asym_us_dd_mean vs run
χ² / ndf 34.97 / 38
p0 783.3 ± 1682
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −76.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.002548
Std Dev 0.9469
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

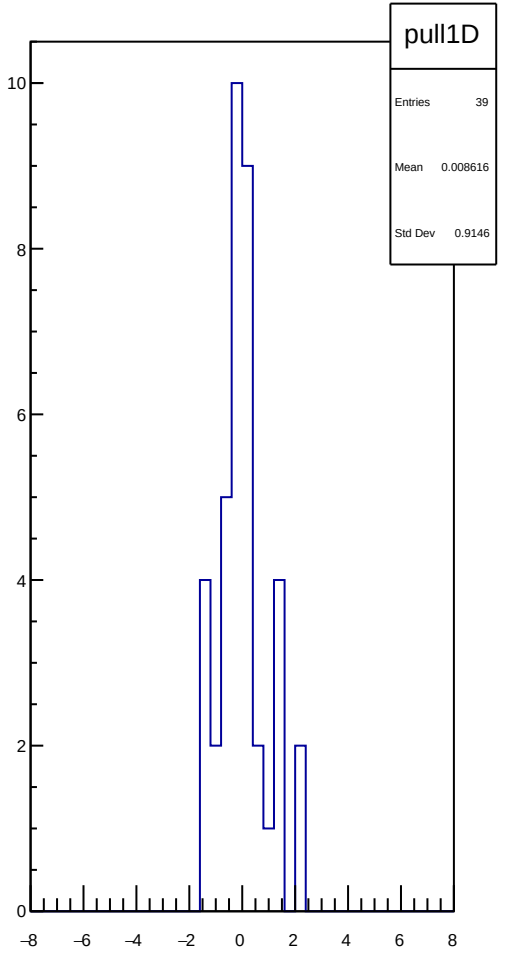

asym_us_dd_rms vs run
χ² / ndf 1.306e+04 / 38
p0 1027 ± 1.189
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

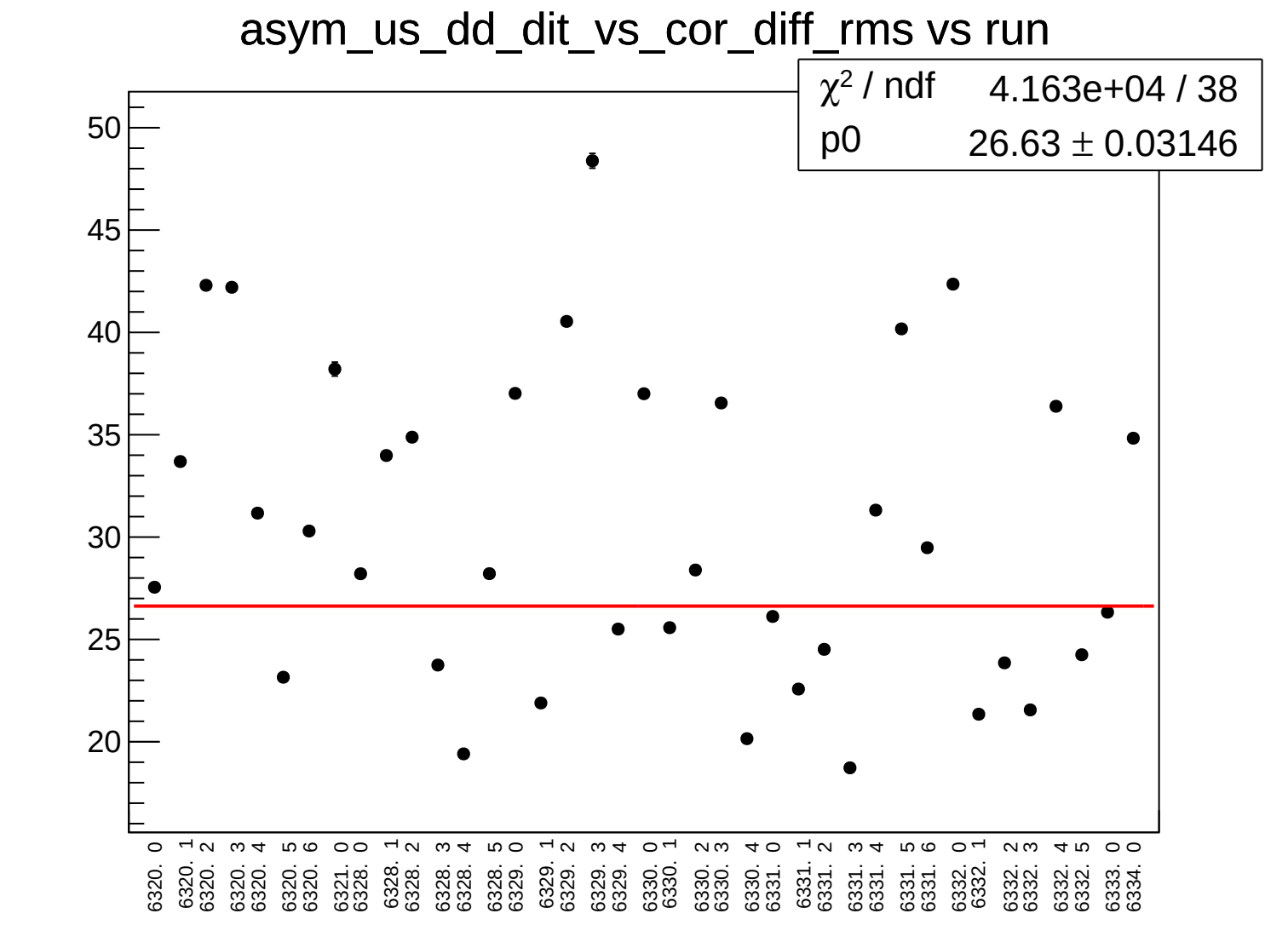

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.24 / 38
p0 −4.384e−14 ± 4.283e−14
pull
Entries 39
Mean 30.22
Std Dev 0

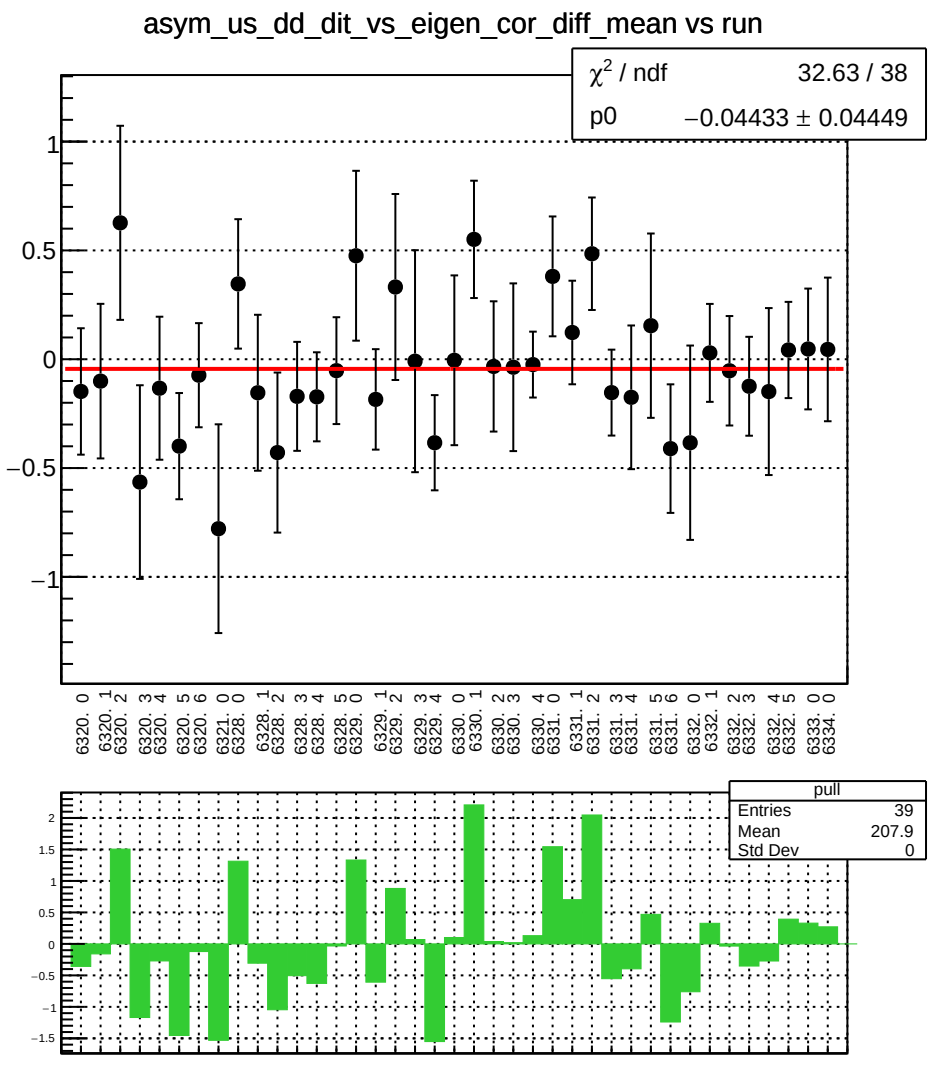

pull1D
Entries 39
Mean 0.1027
Std Dev 0.8745

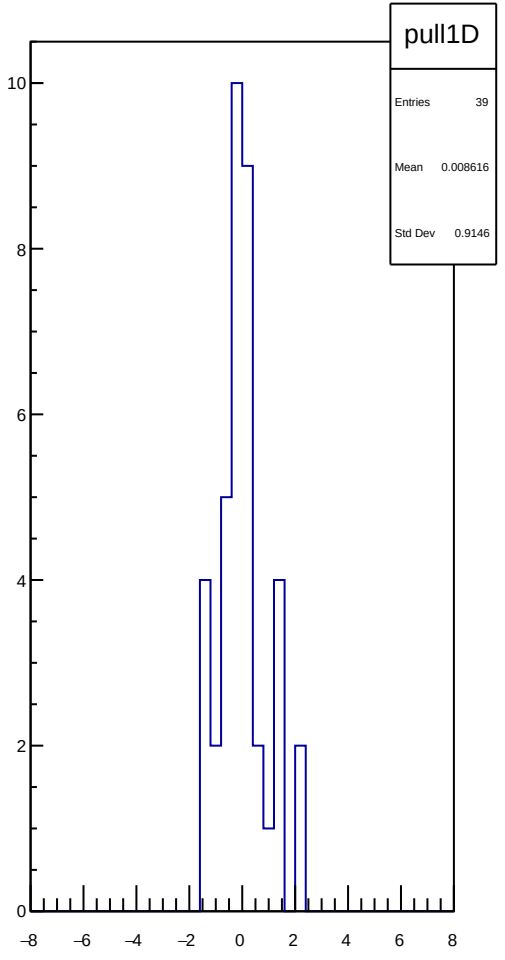

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.751e+05 / 38
p0 2.105e−11 ± 3.029e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

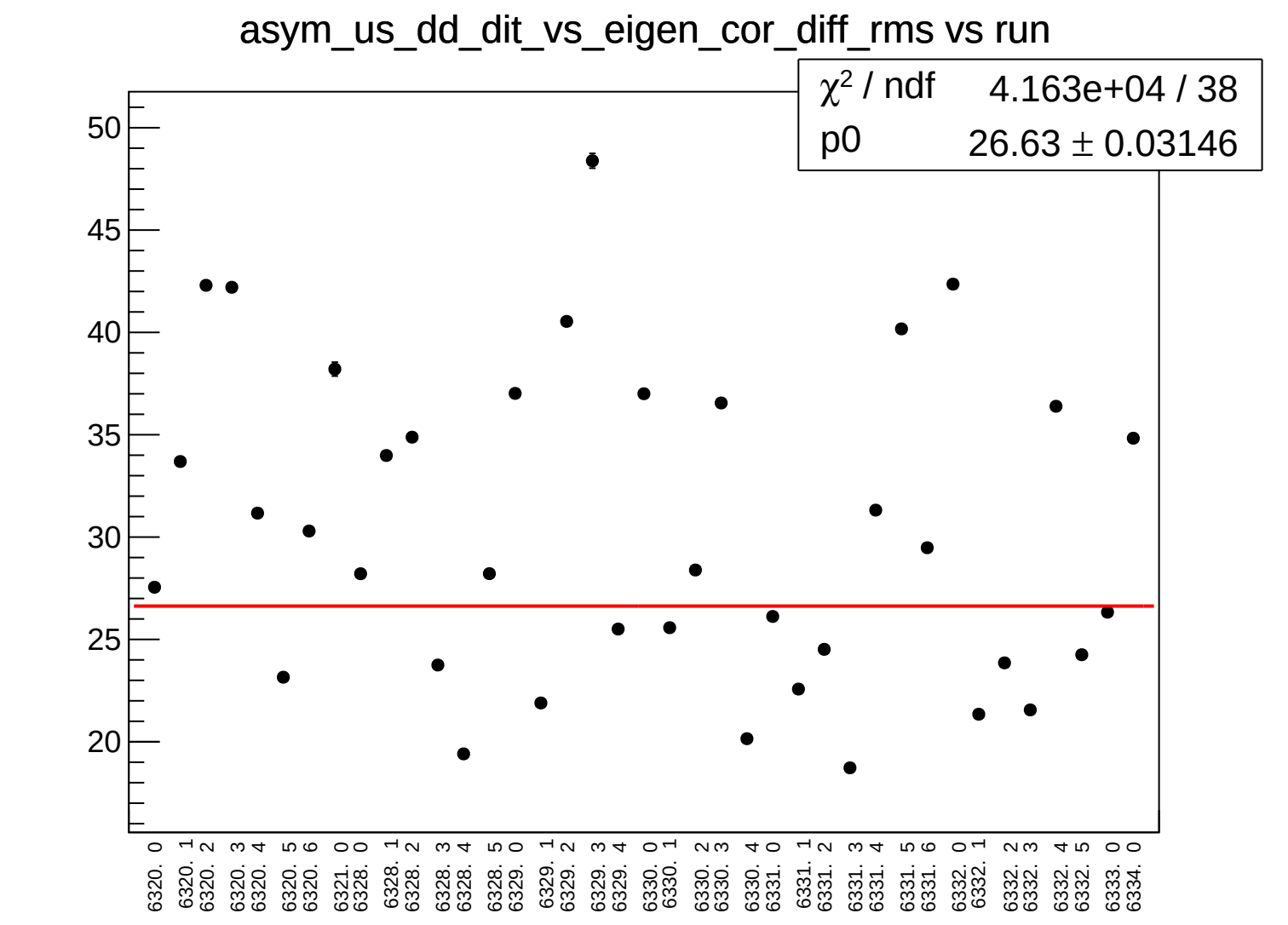

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.63 / 38
p0 −0.04433 ± 0.04449
pull
Entries 39
Mean 207.9
Std Dev 0

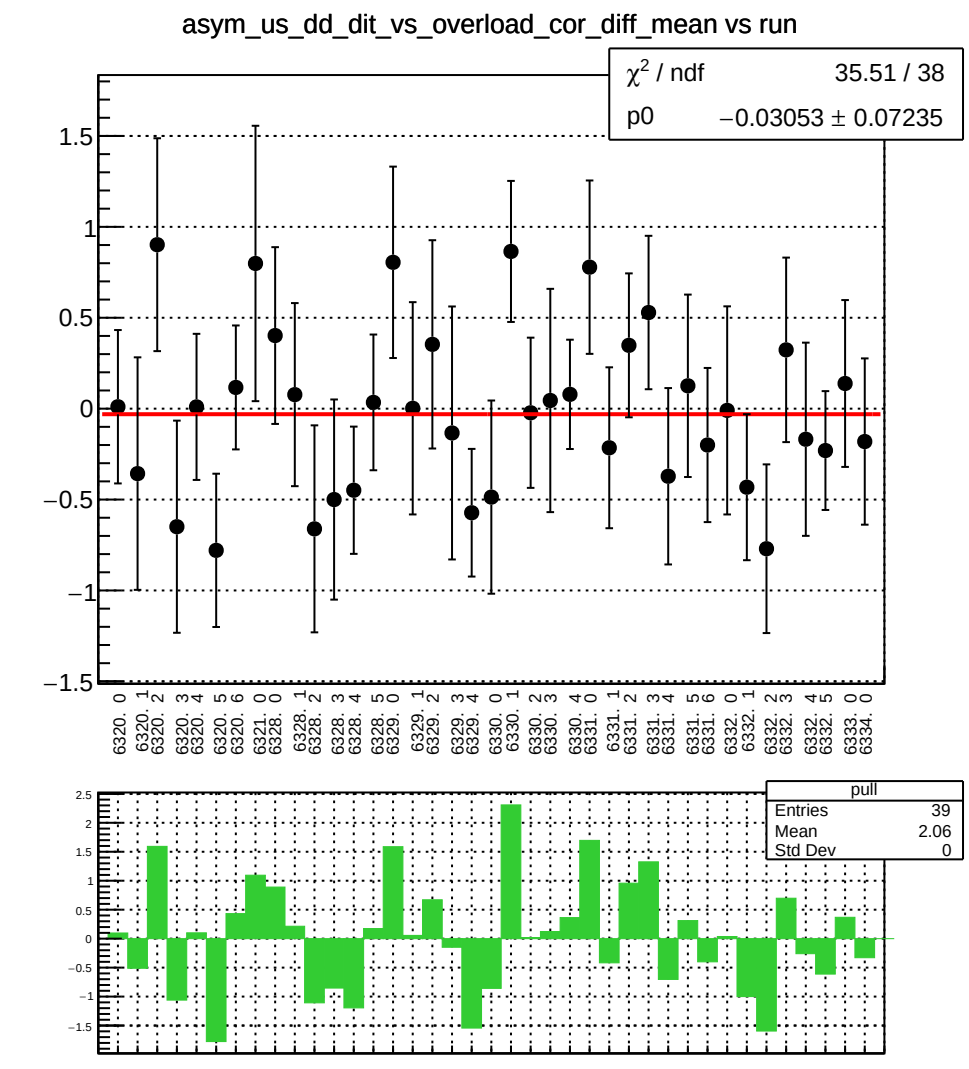

pull1D
Entries 39
Mean 0.008616
Std Dev 0.9146

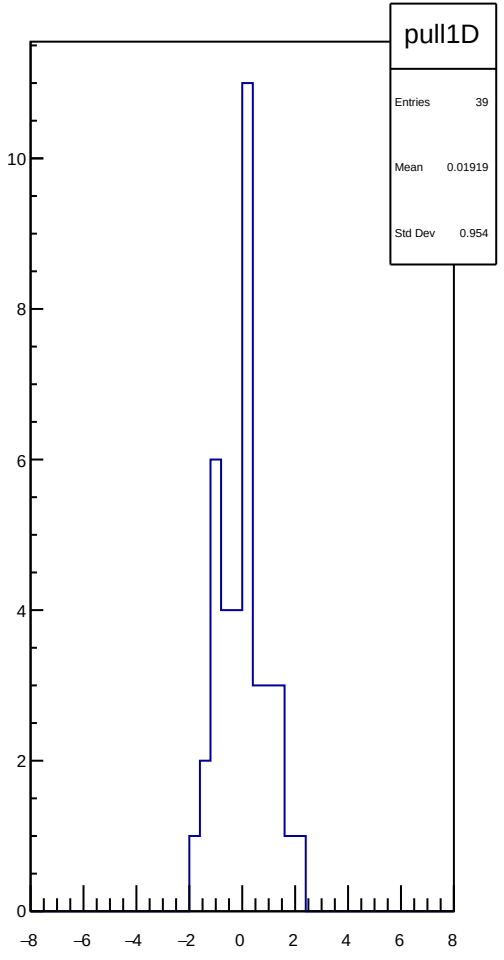

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.163e+04 / 38
p0 26.63 ± 0.03146
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

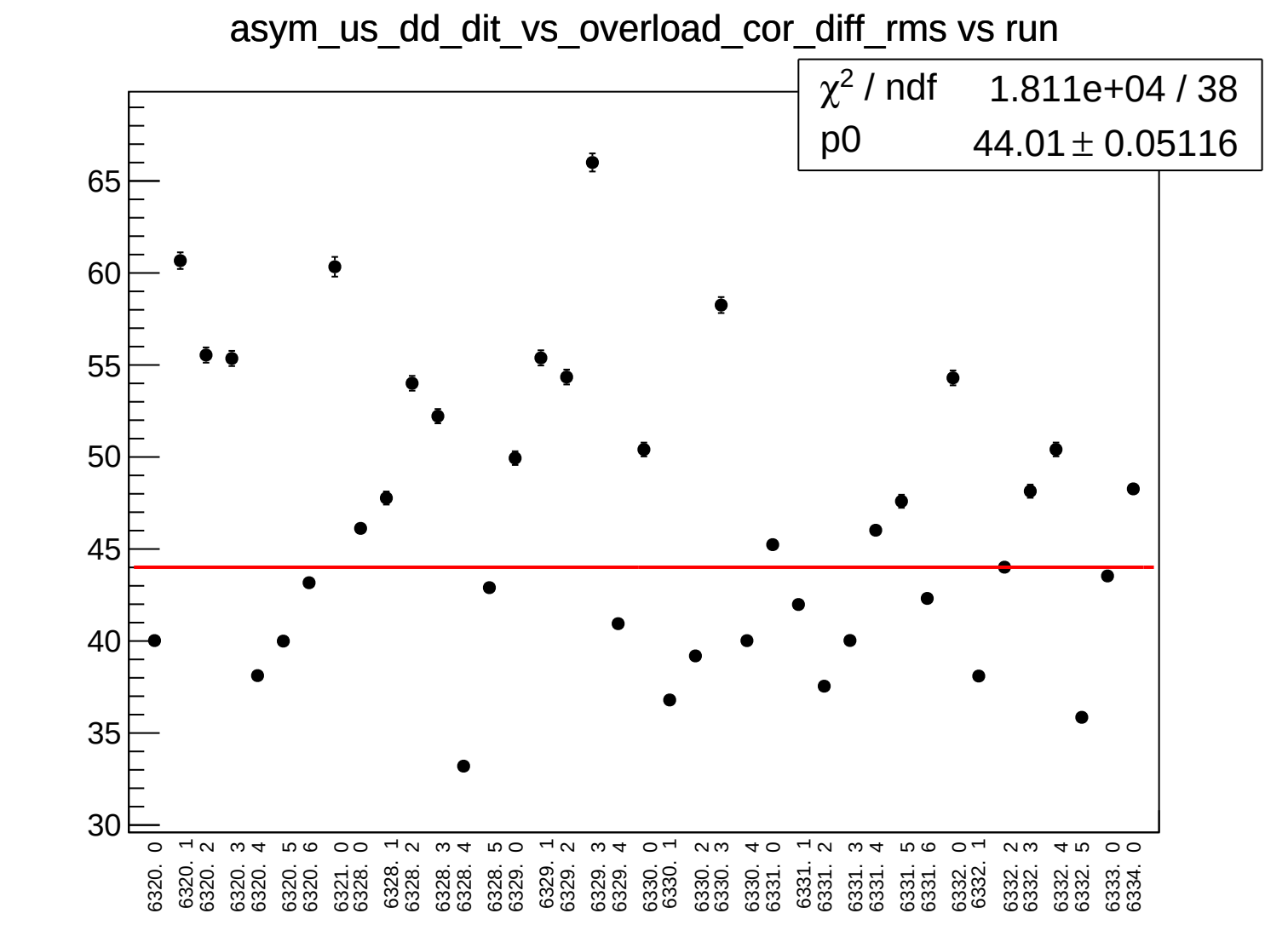

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.63 / 38
p0 −0.04433 ± 0.04449
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 207.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

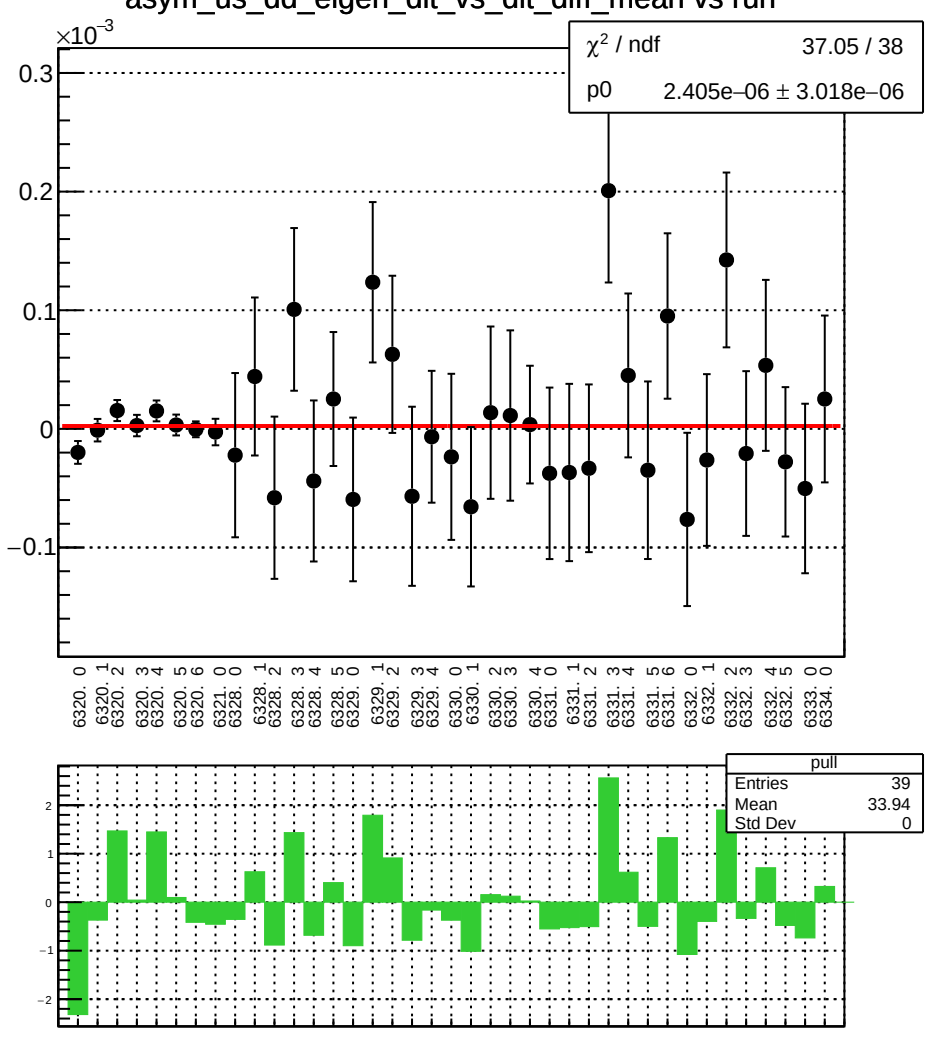

pull1D
Entries 39
Mean 0.008616
Std Dev 0.9146
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

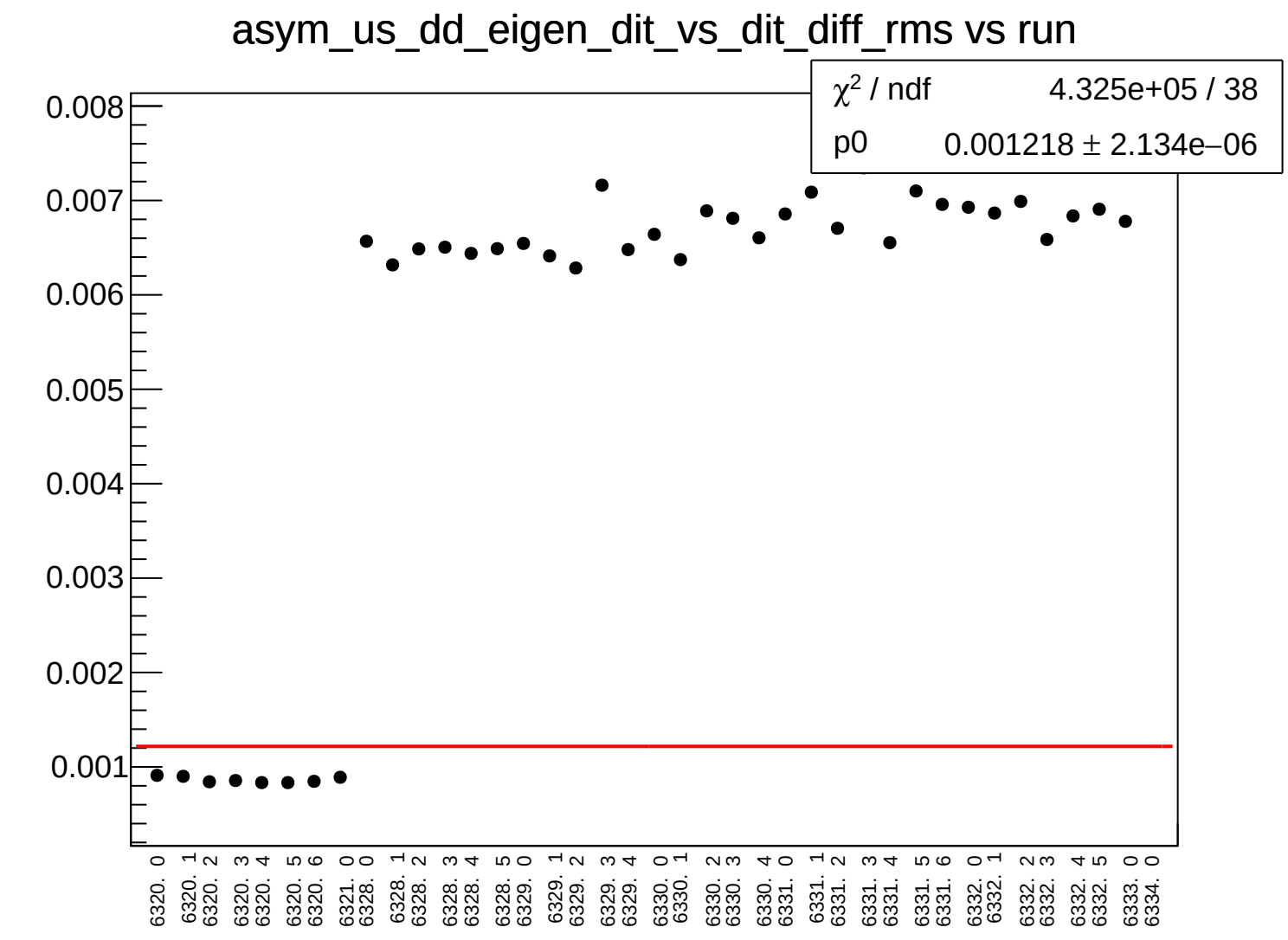

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.163e+04 / 38
p0 26.63 ± 0.03146
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

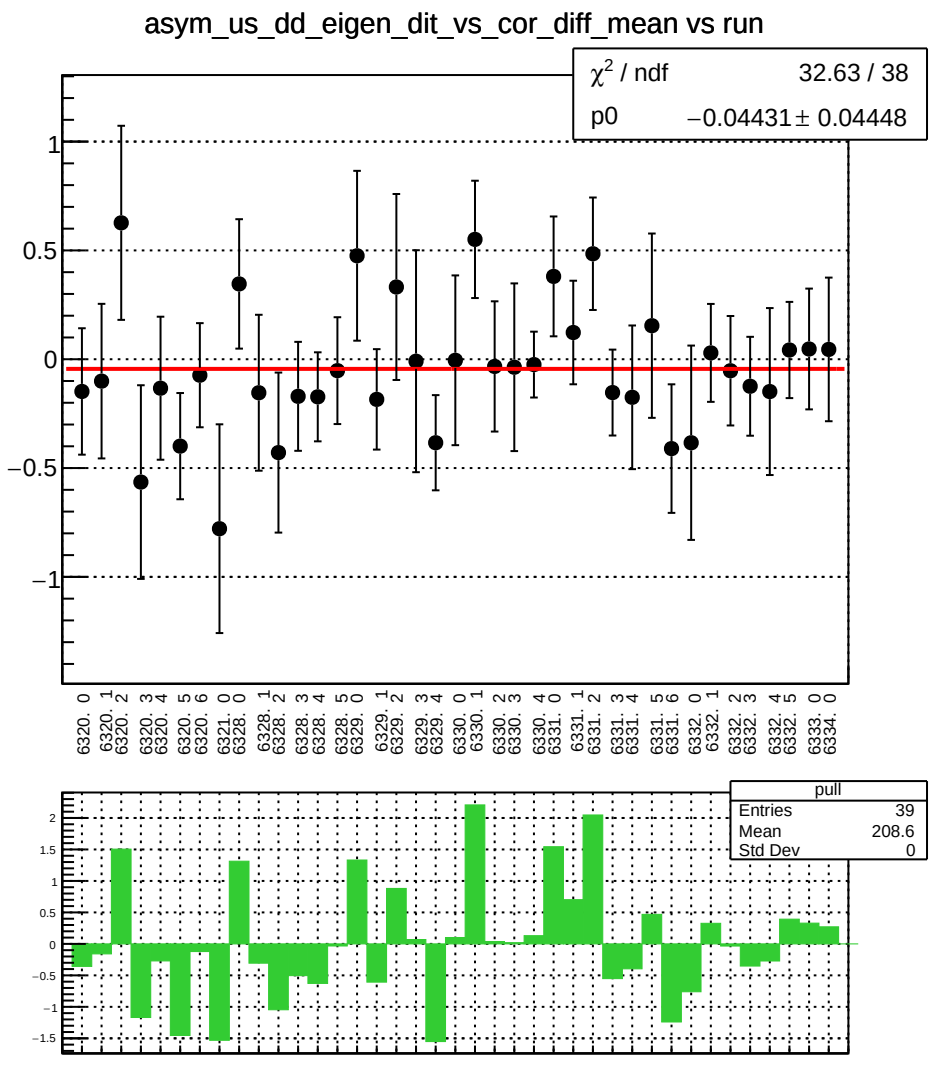

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 35.51 / 38
p0 −0.03053 ± 0.07235
pull
Entries 39
Mean 2.06
Std Dev 0

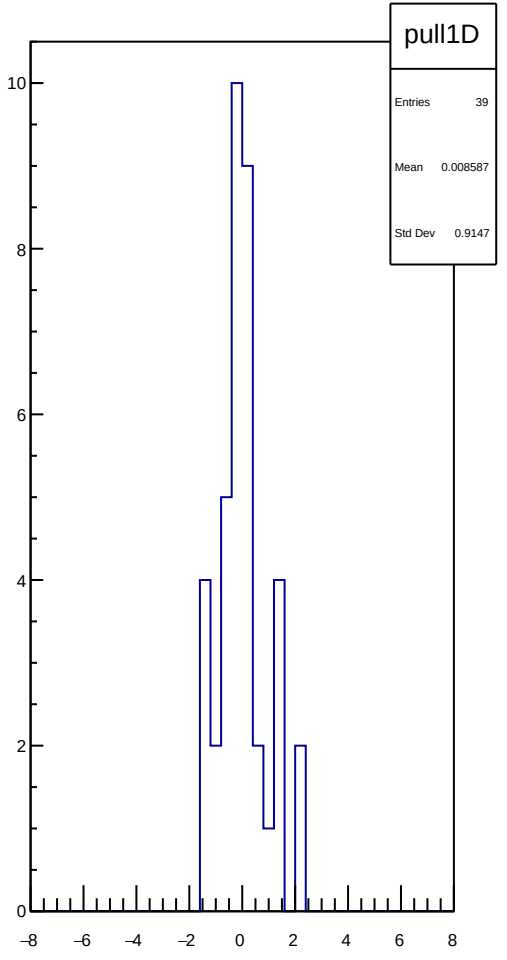

pull1D
Entries 39
Mean 0.01919
Std Dev 0.954

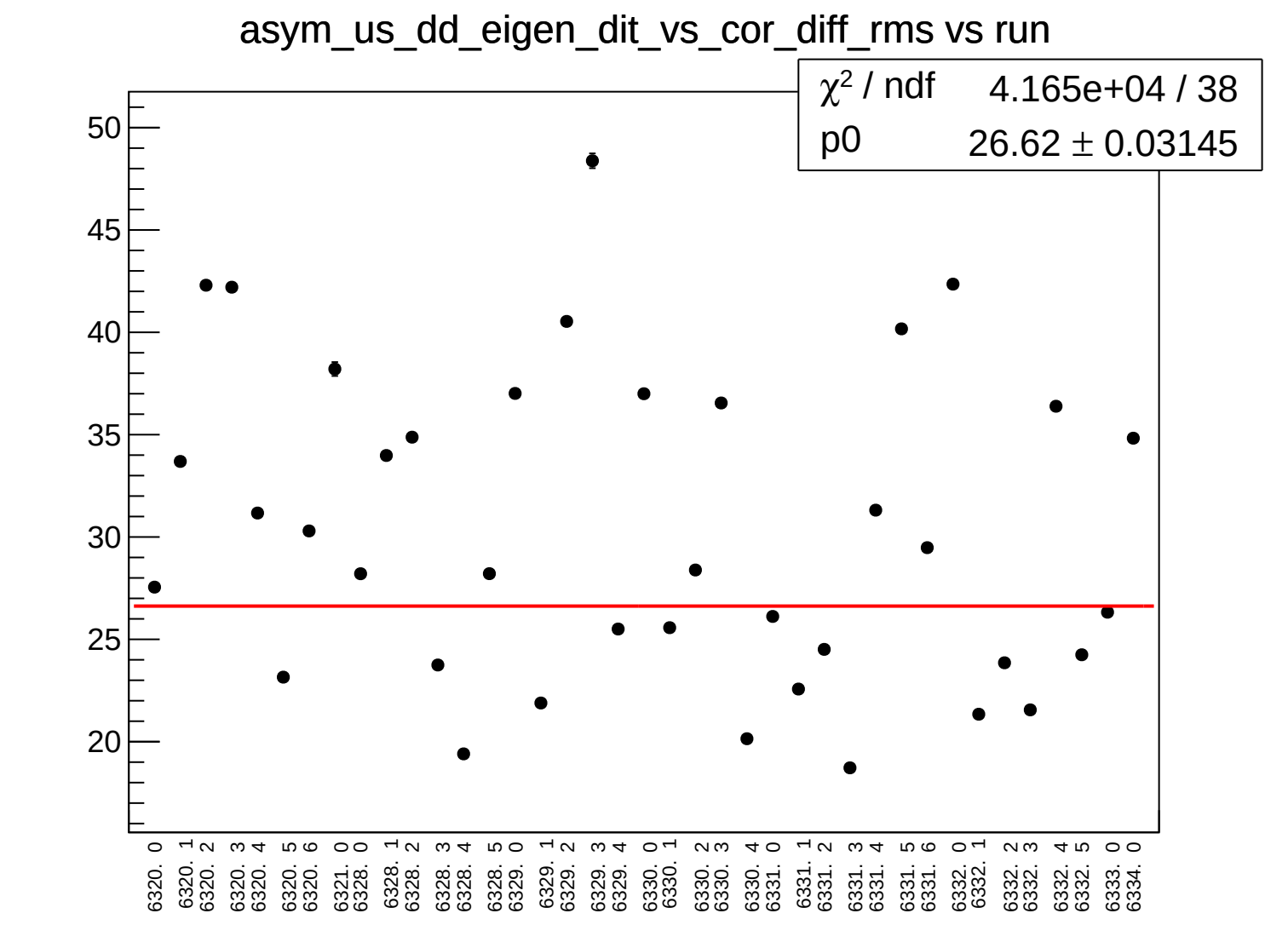

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.811e+04 / 38
p0 44.01 ± 0.05116
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.05 / 38
p0 2.405e−06 ± 3.018e−06
0.3
0.2
0.1
0
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05544
Std Dev 0.9732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

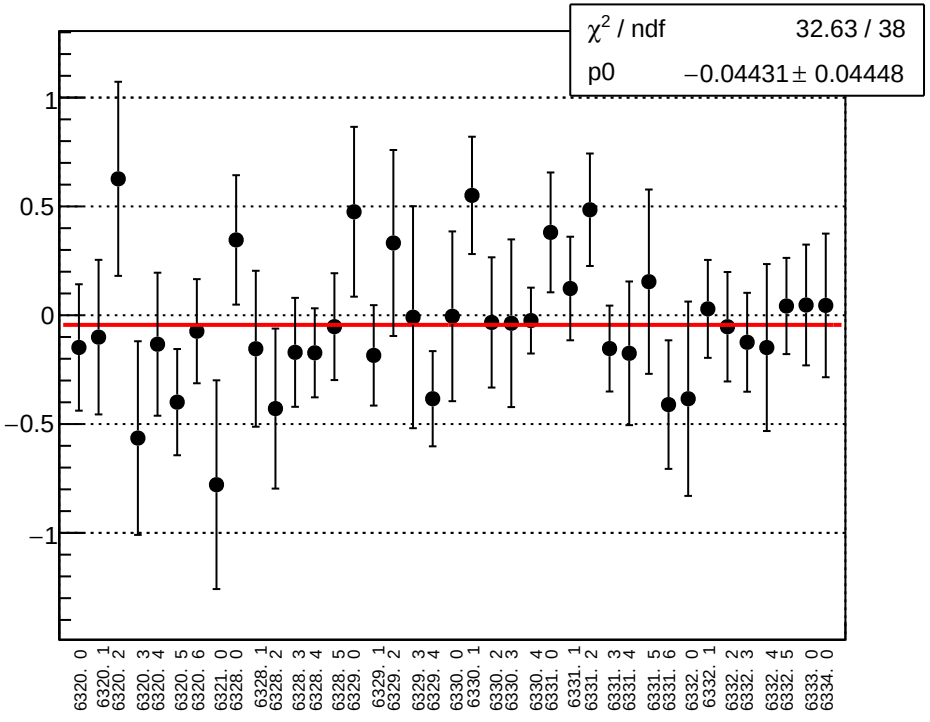

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.325e+05 / 38
p0 0.001218 ± 2.134e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

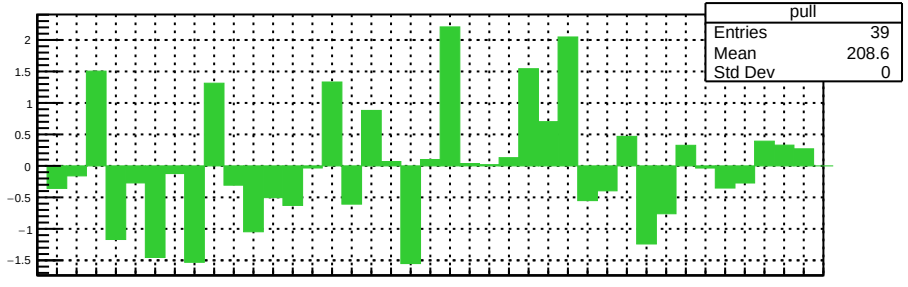

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.63 / 38
p0 −0.04431 ± 0.04448
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 208.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

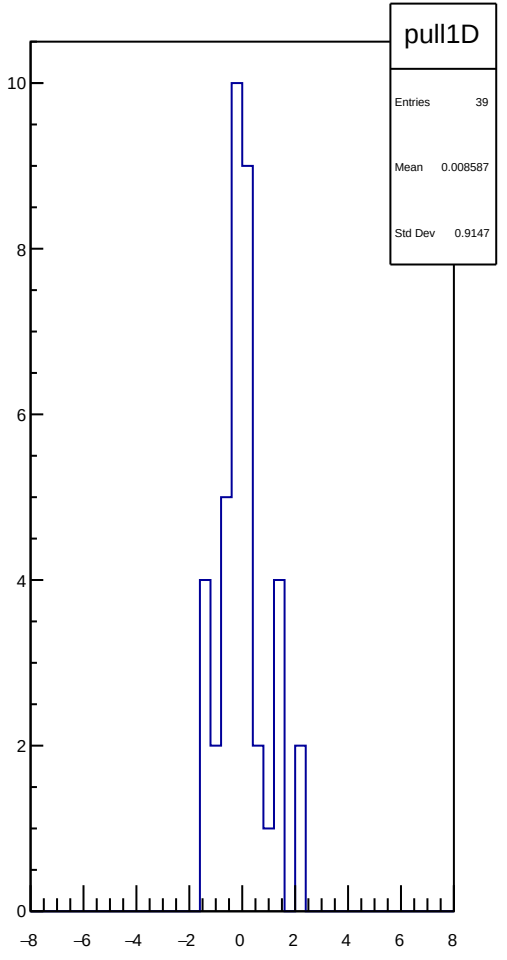

pull1D
Entries 39
Mean 0.008587
Std Dev 0.9147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

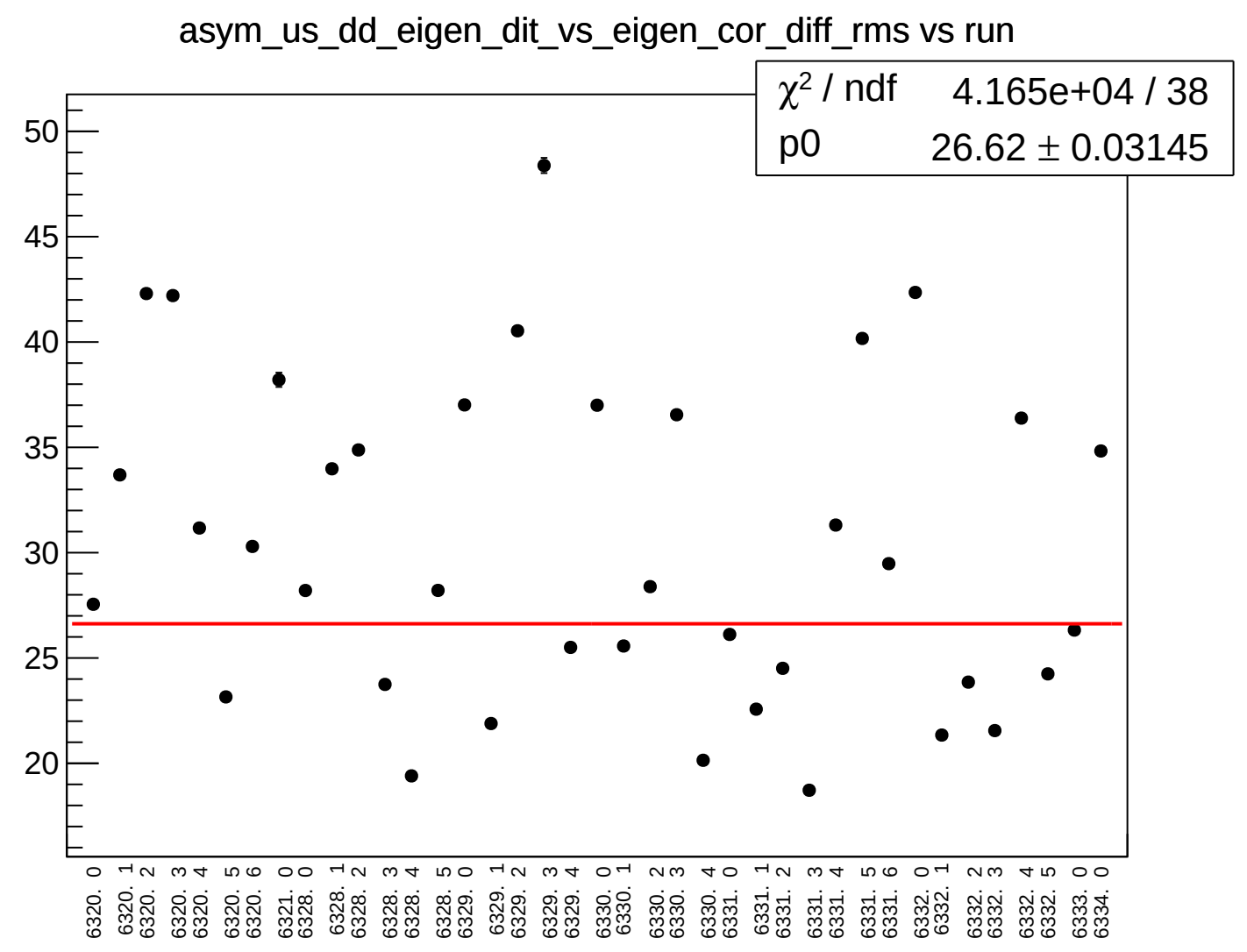

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.165e+04 / 38
p0 26.62 ± 0.03145
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

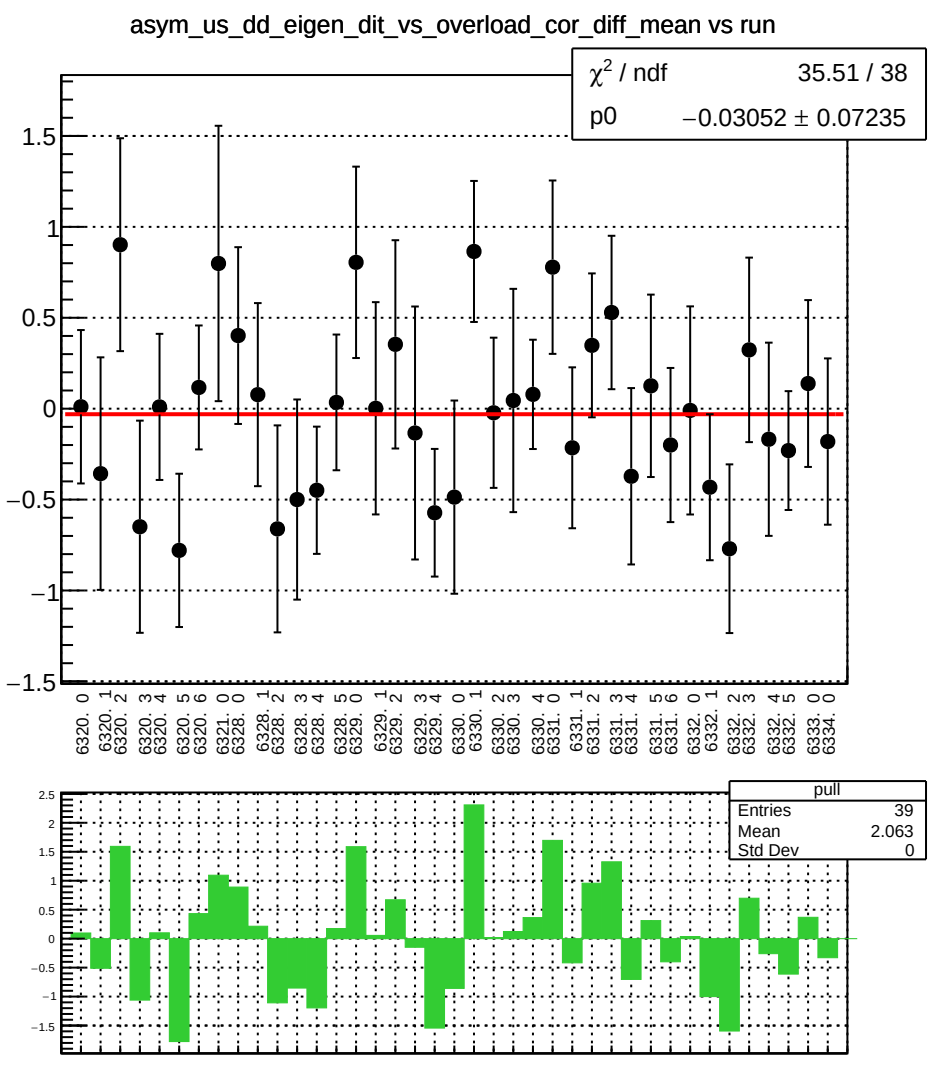
asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

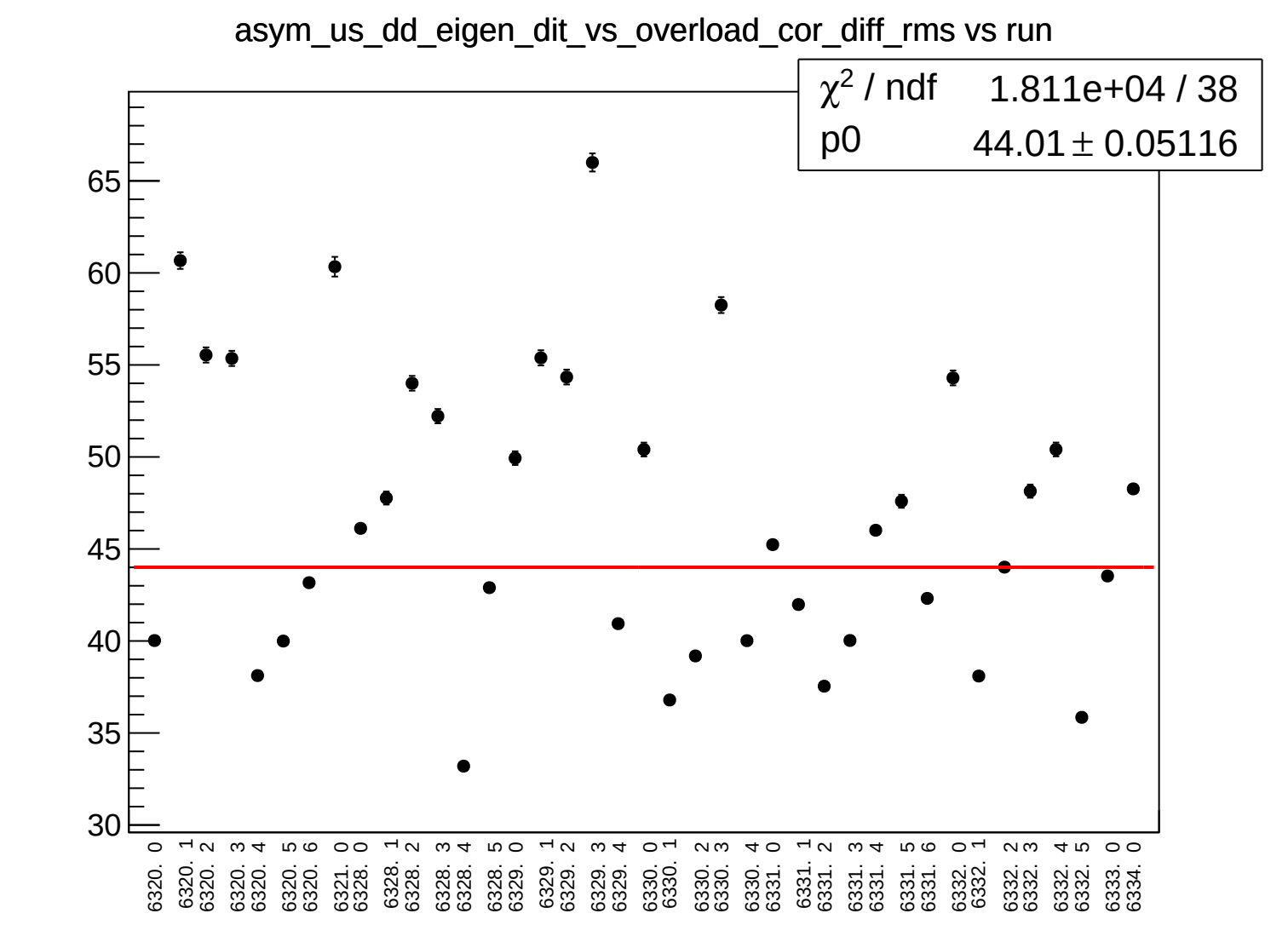


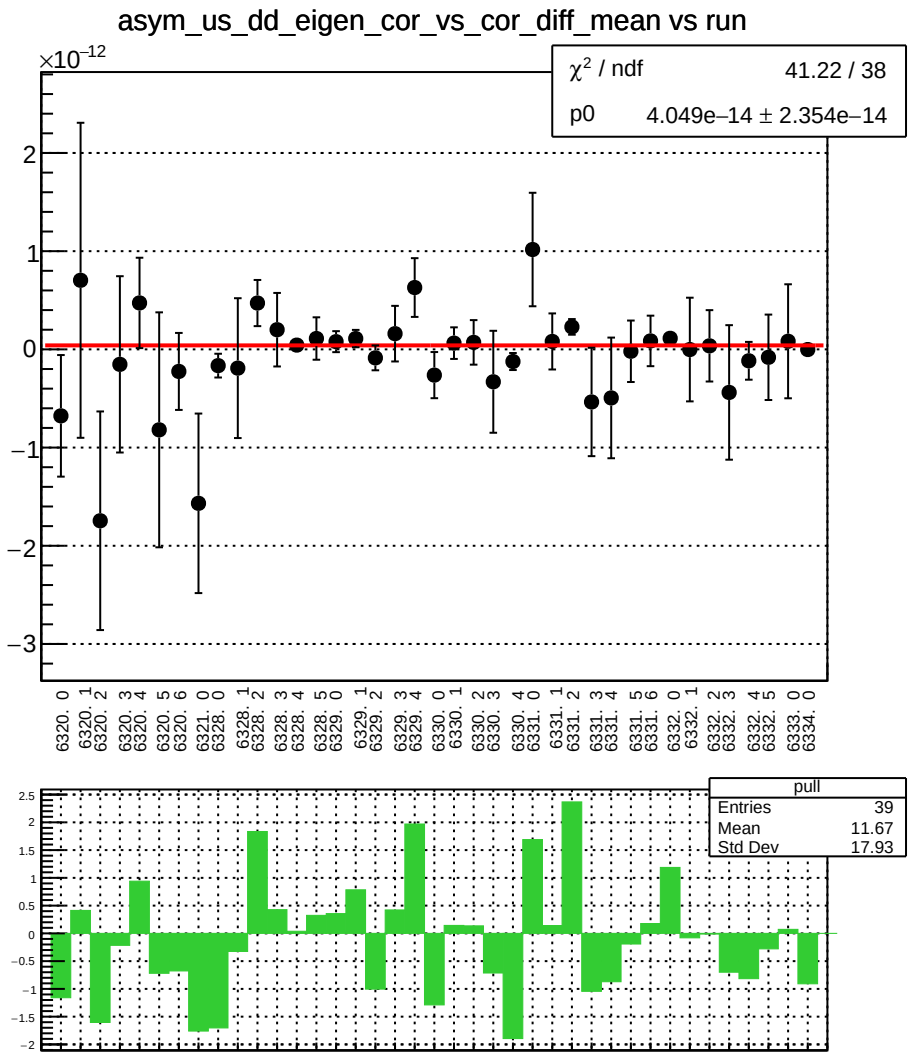


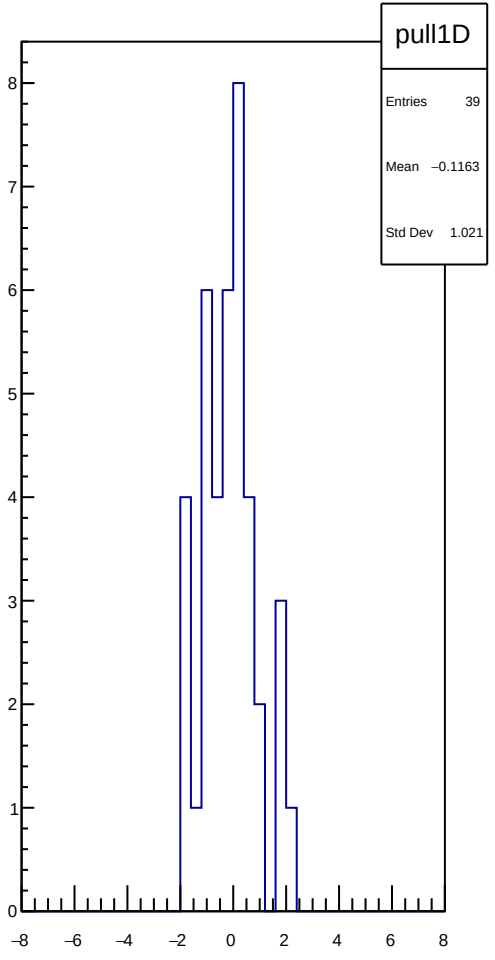


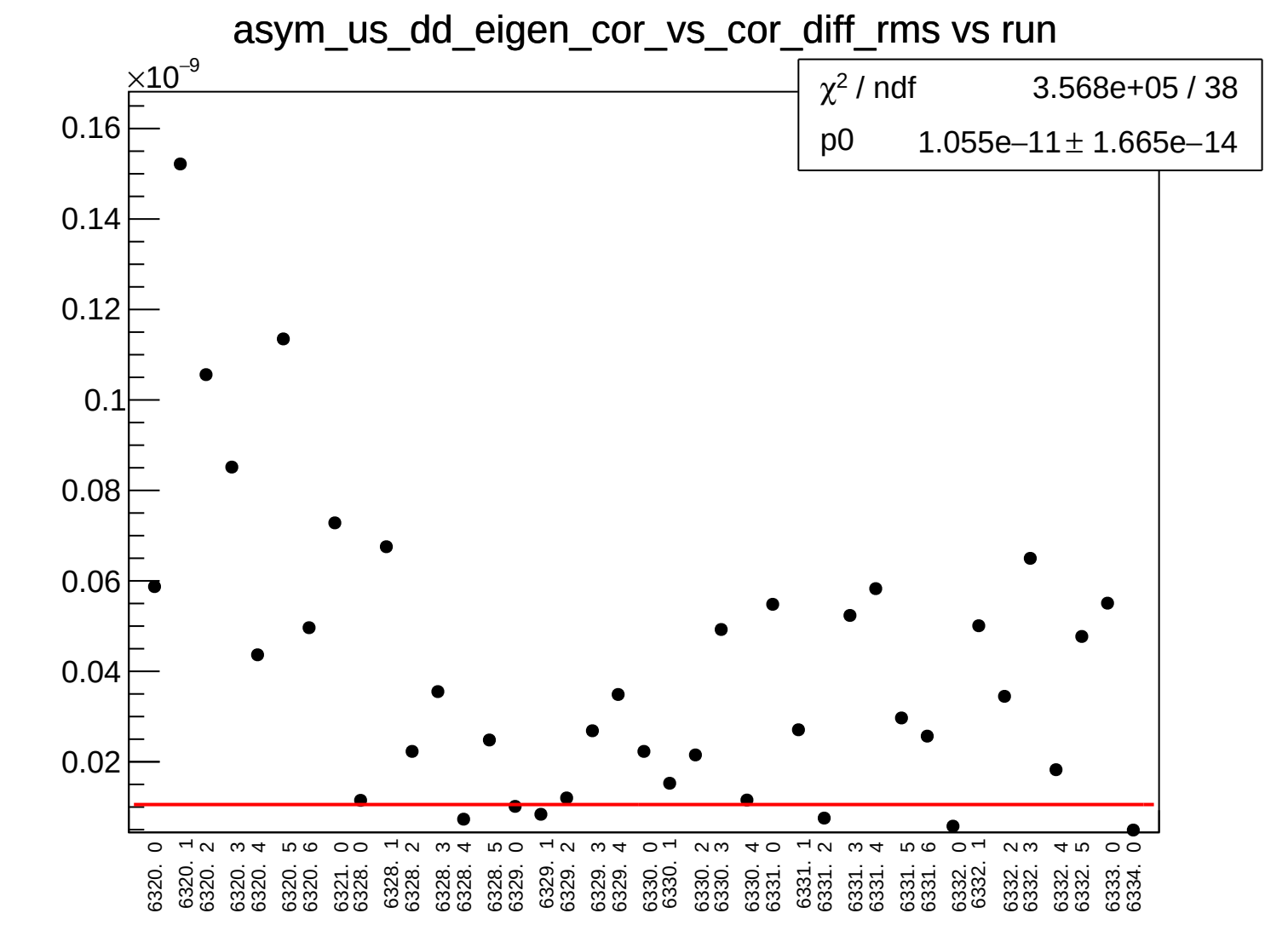

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.165e+04 / 38
p0 26.62 ± 0.03145
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

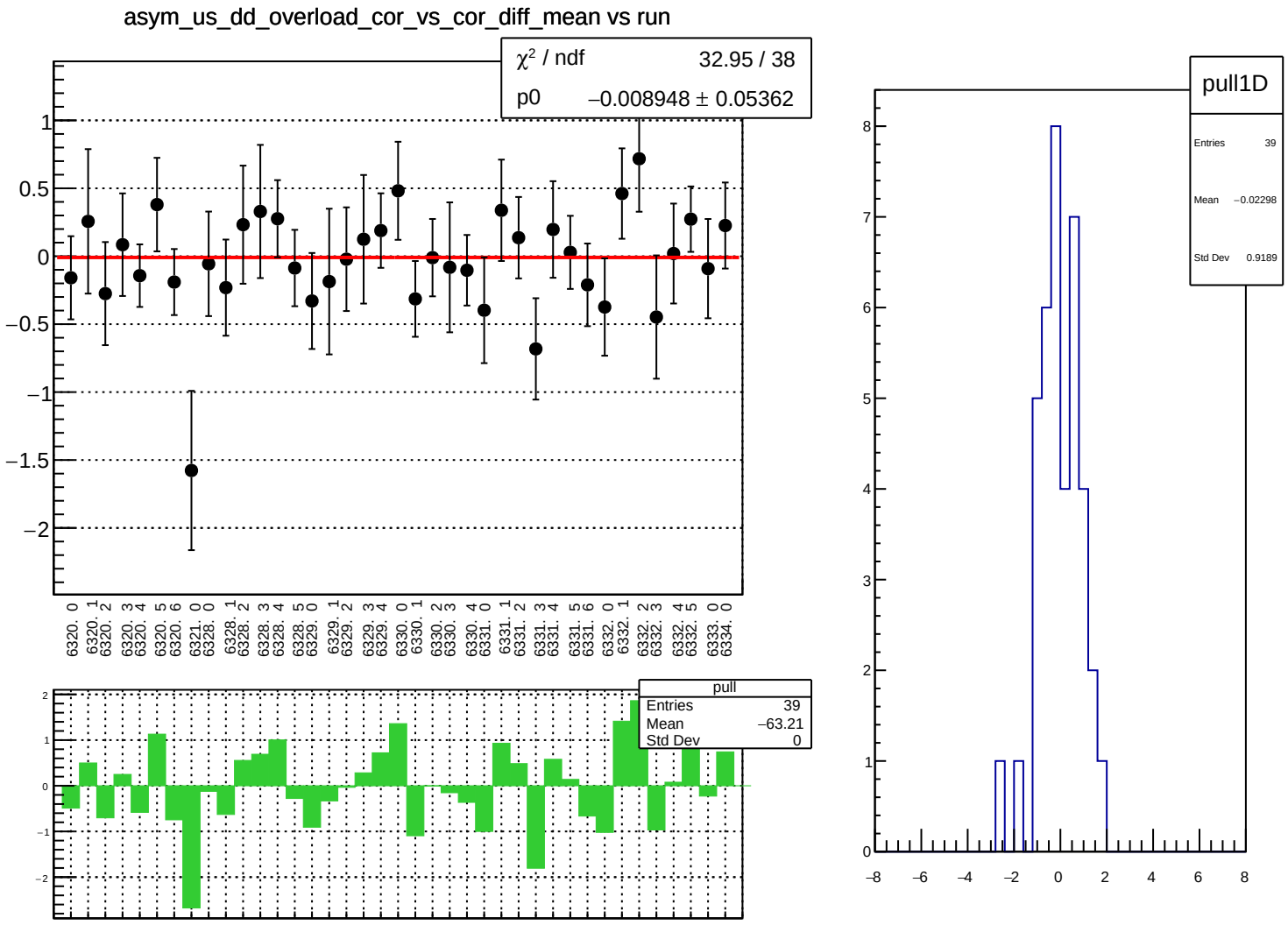

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 35.51 / 38
p0 −0.03052 ± 0.07235
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 2.063
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01918
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

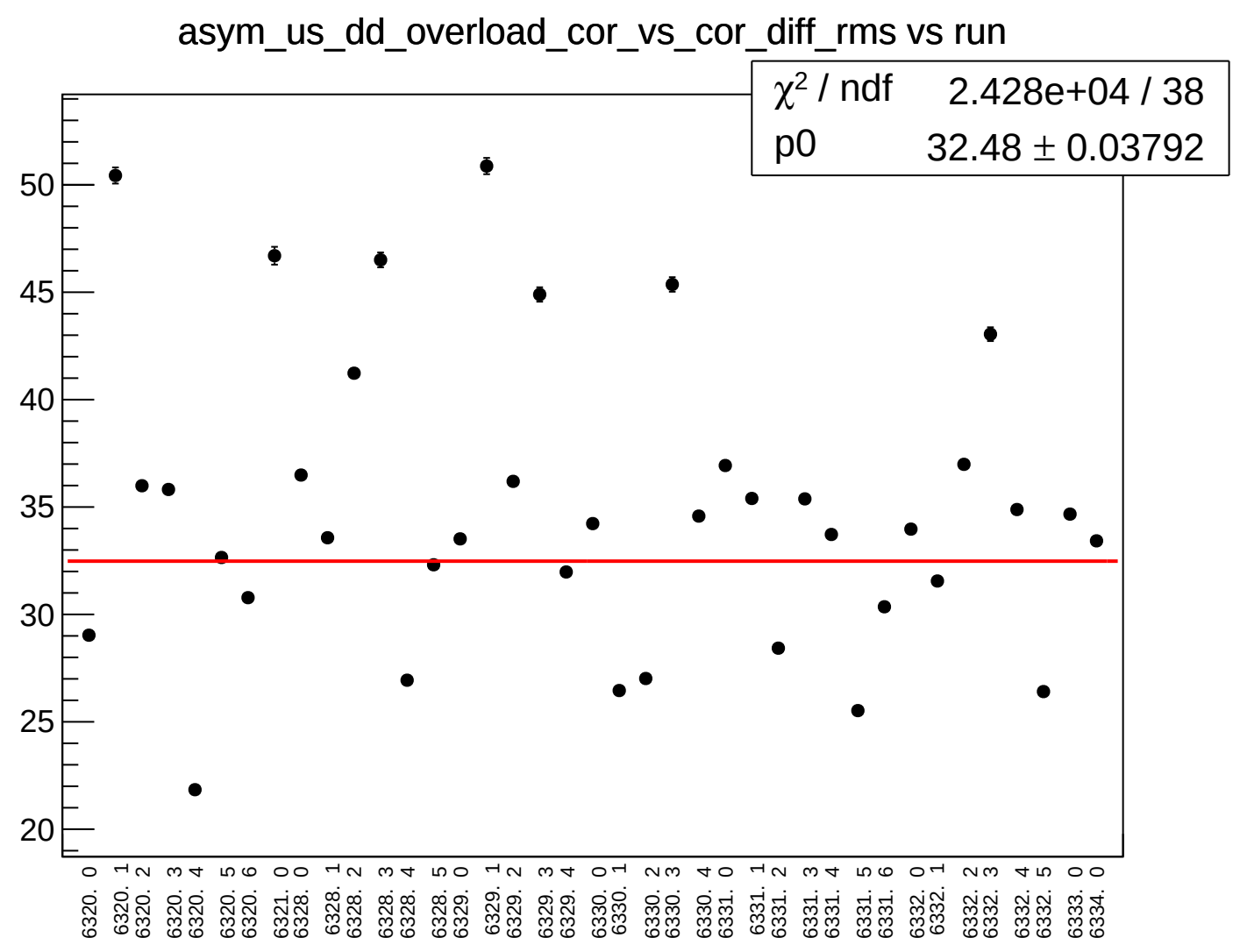

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.811e+04 / 38
p0 44.01 ± 0.05116
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

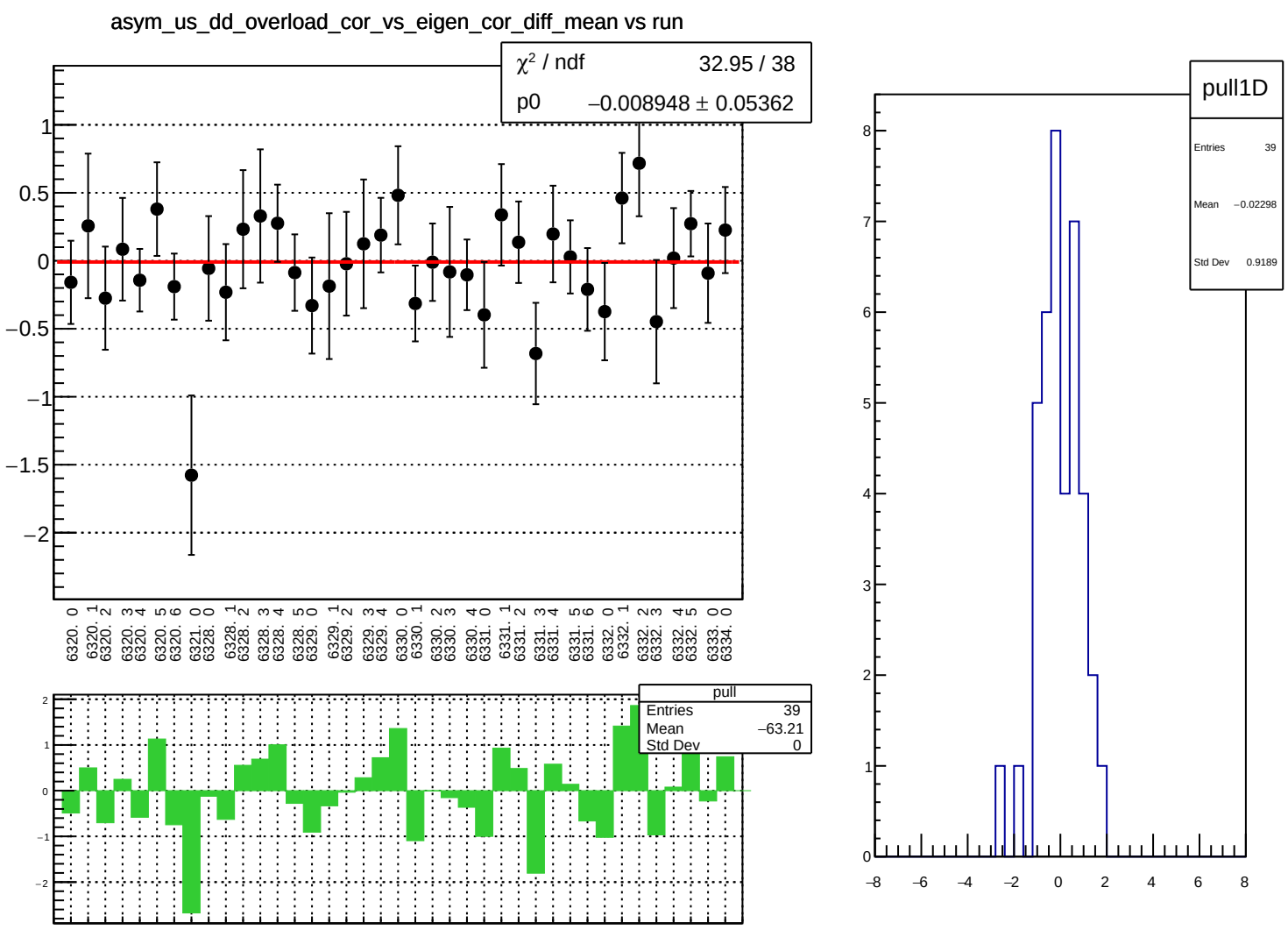

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.22 / 38
p0 4.049e−14 ± 2.354e−14
pull
Entries 39
Mean 11.67
Std Dev 17.93

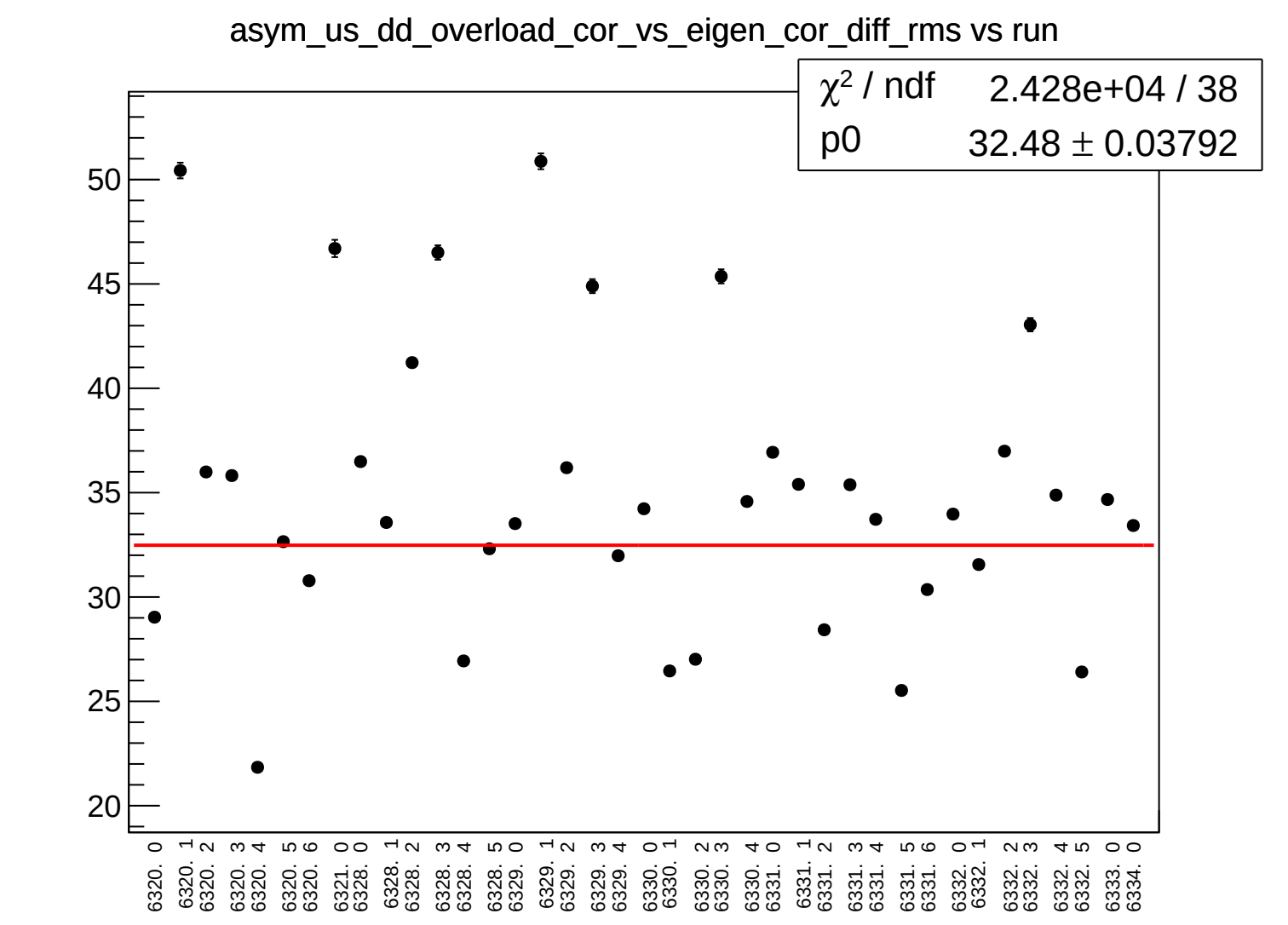

pull1D
Entries 39
Mean −0.1163
Std Dev 1.021

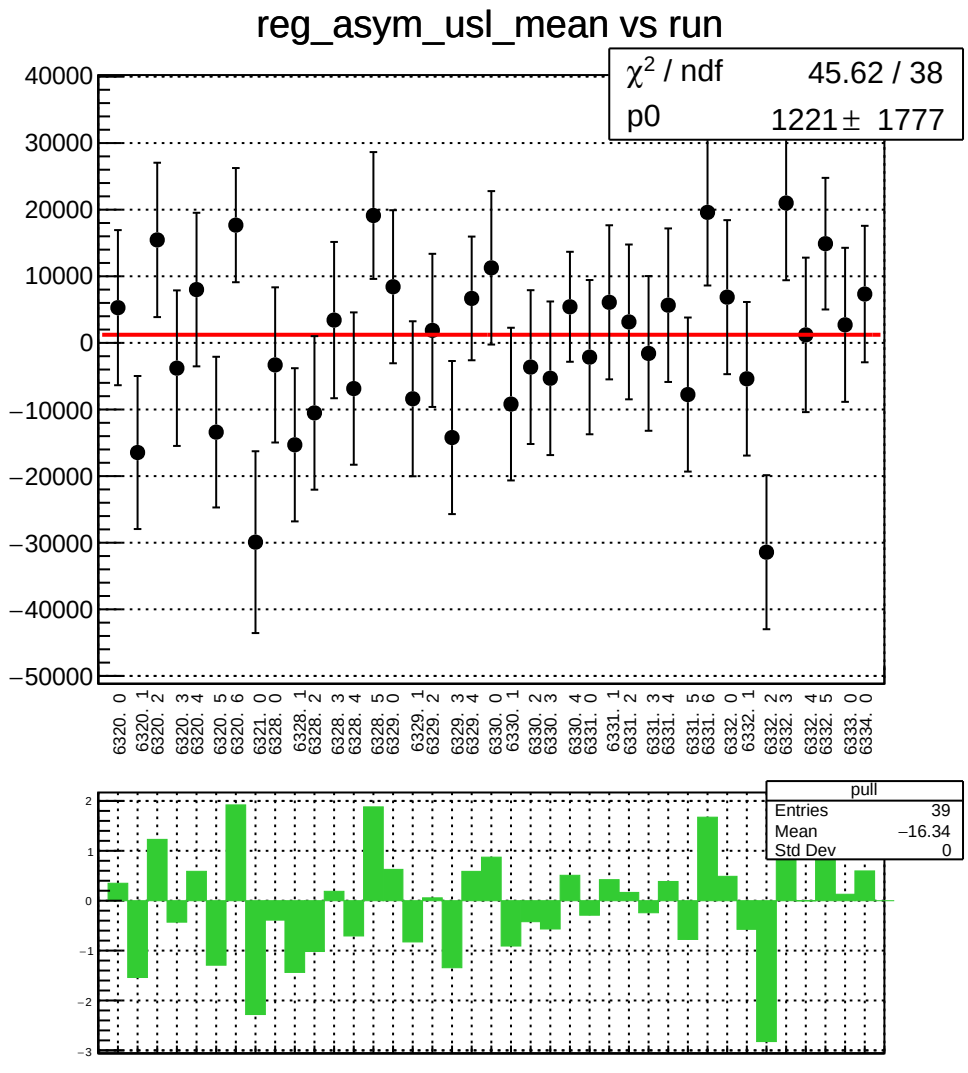

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.568e+05 / 38
p0 1.055e−11 ± 1.665e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

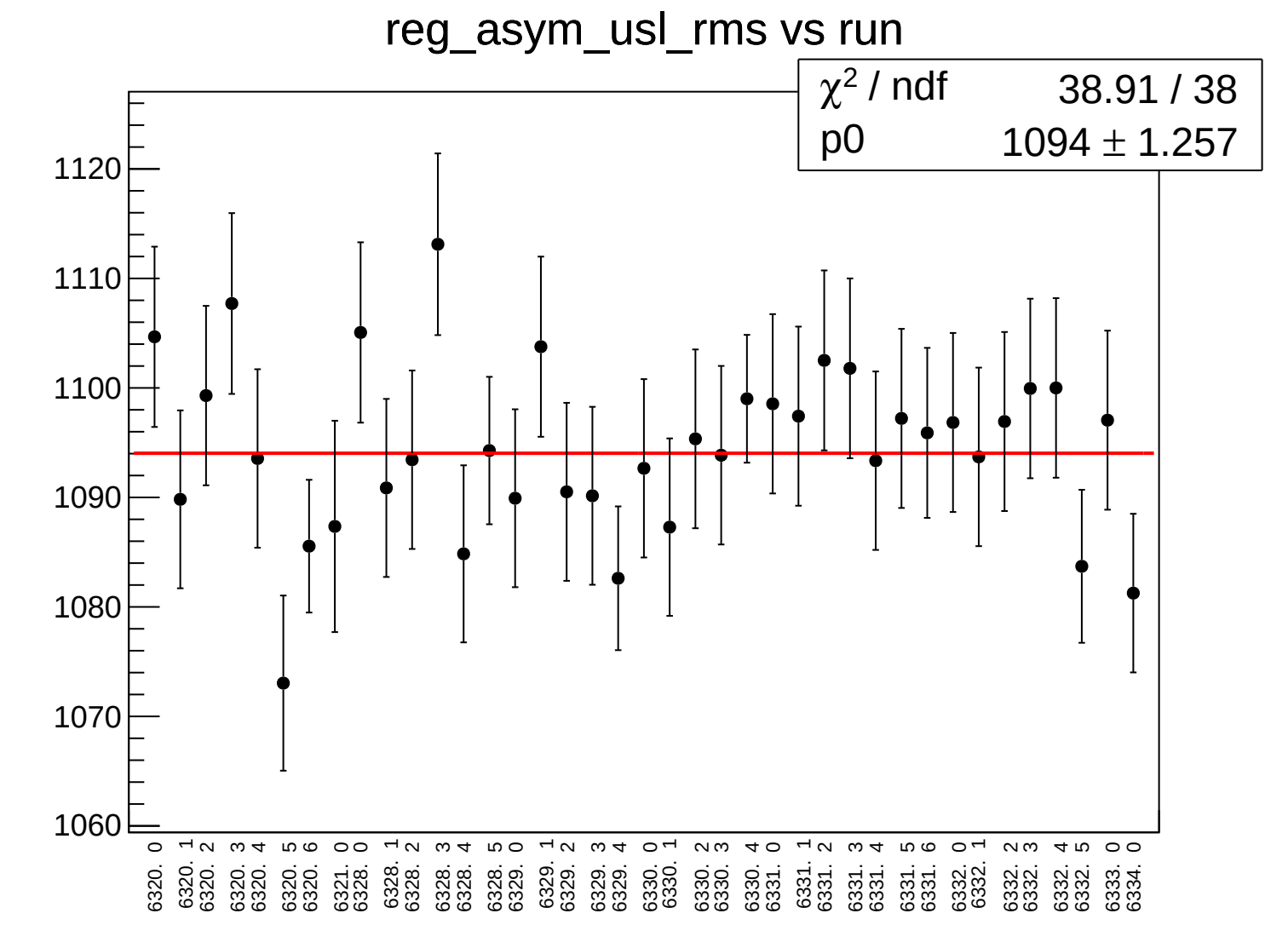

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 32.95 / 38
p0 −0.008948 ± 0.05362
pull
Entries 39
Mean −63.21
Std Dev 0
pull1D
Entries 39
Mean −0.02298
Std Dev 0.9189

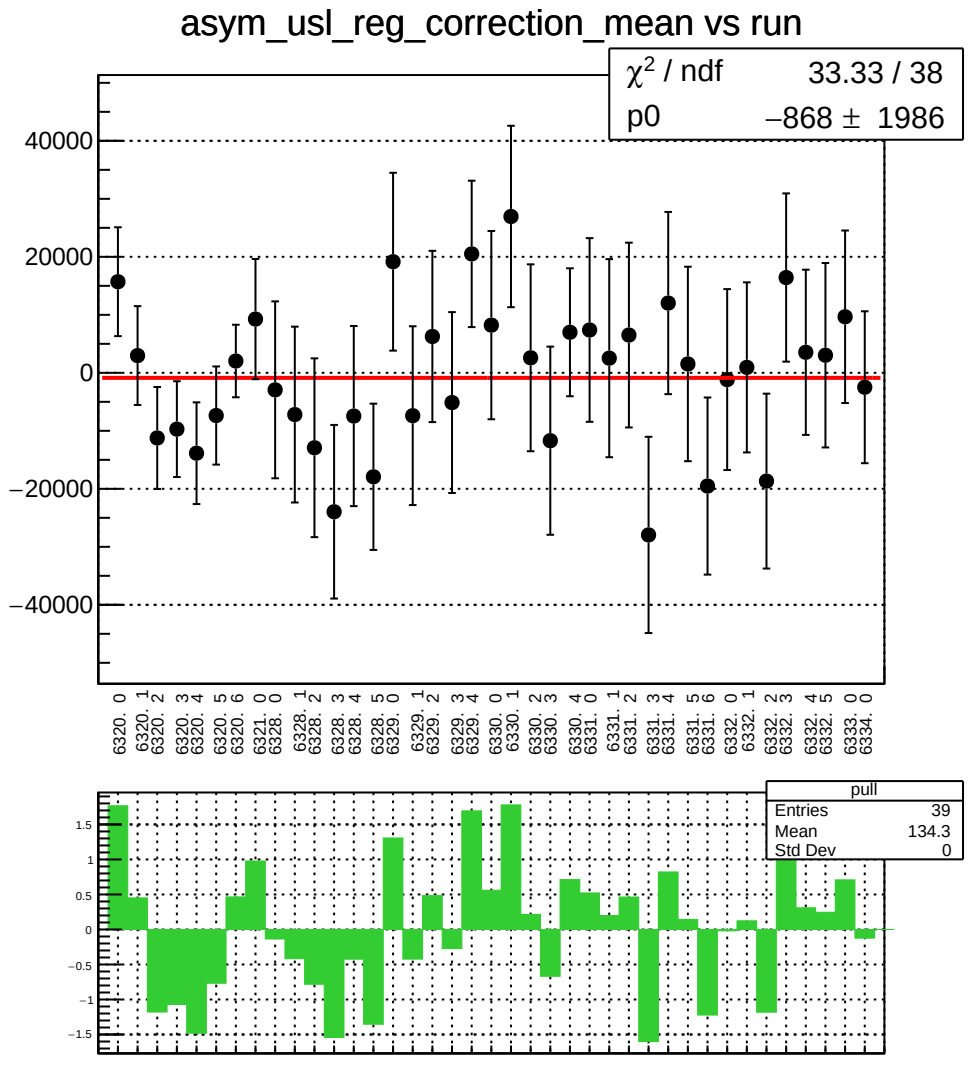

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 32.48 ± 0.03792
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

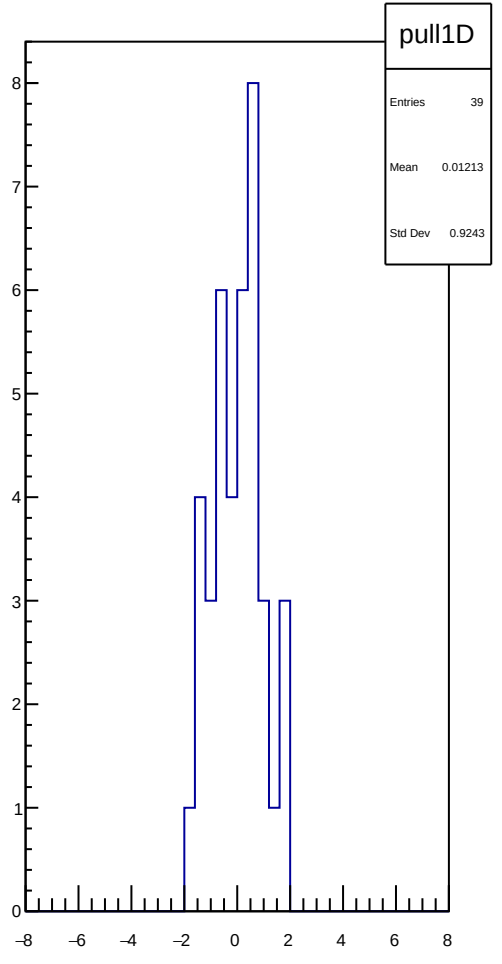

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.95 / 38
p0 −0.008948 ± 0.05362
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02298
Std Dev 0.9189
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

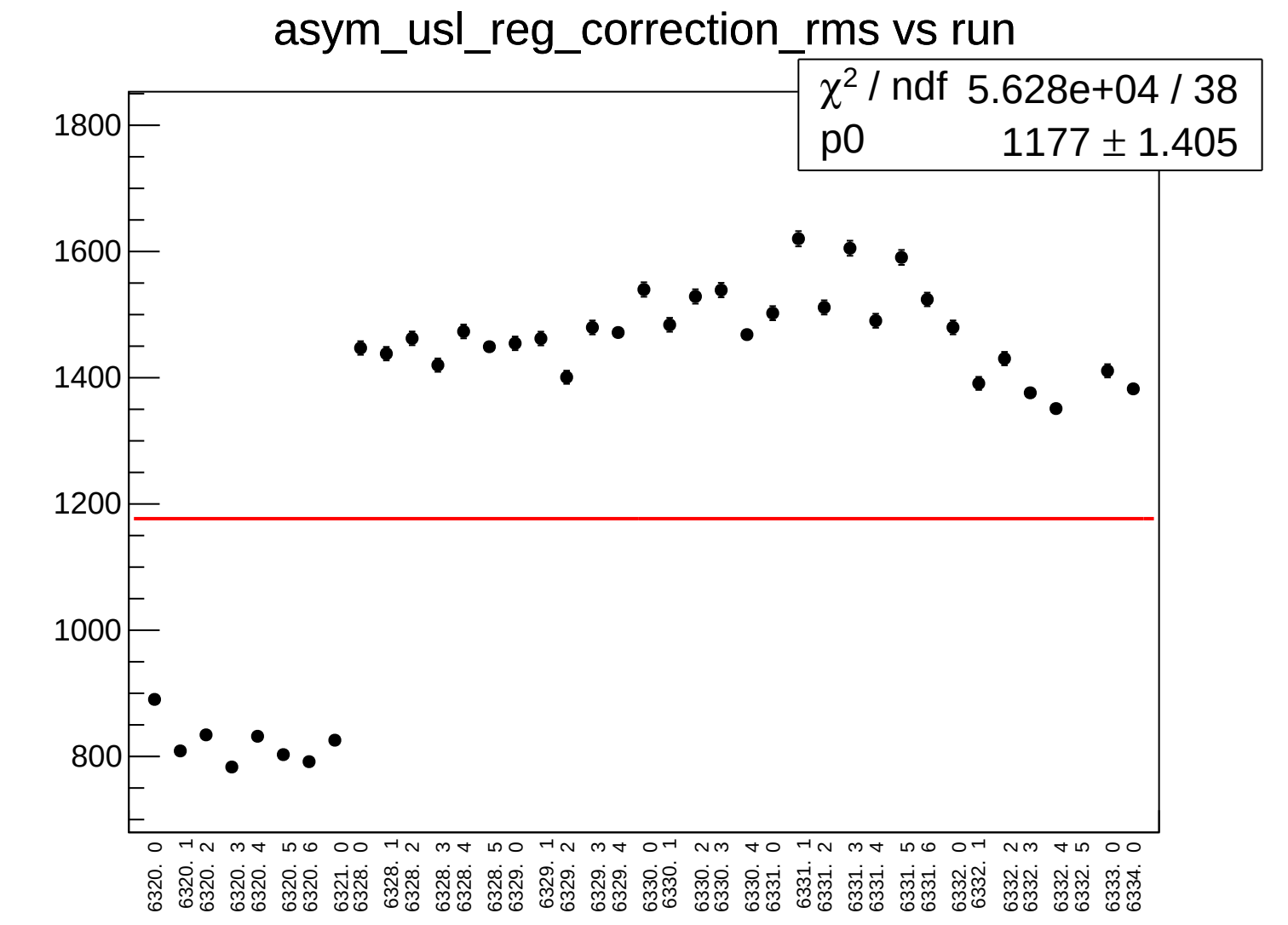

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 32.48 ± 0.03792
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

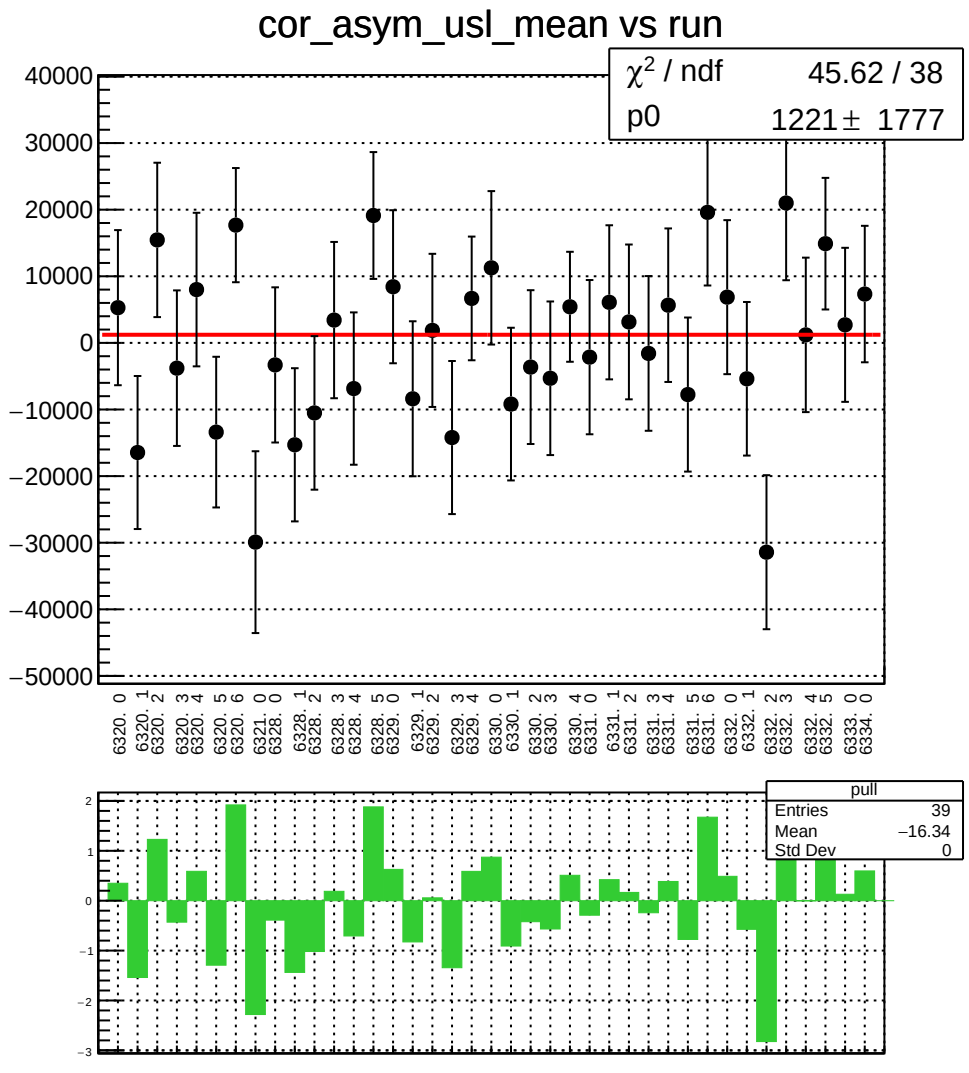

reg_asym_usl_mean vs run
χ² / ndf 45.62 / 38
p0 1221 ± 1777
pull
Entries 39
Mean −16.34
Std Dev 0
pull1D
Entries 39
Mean −0.05395
Std Dev 1.08

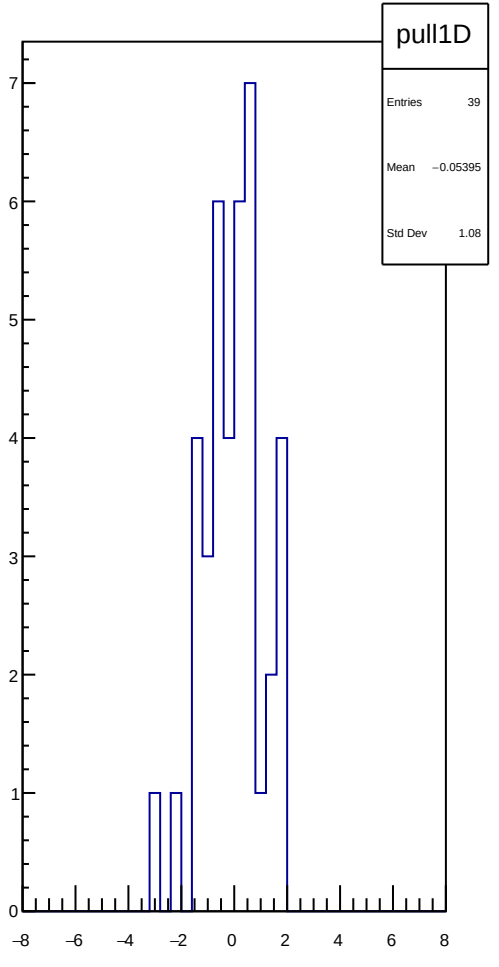

reg_asym_usl_rms vs run
χ² / ndf 38.91 / 38
p0 1094 ± 1.257
1120
1110
1100
1090
1080
1070
1060
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

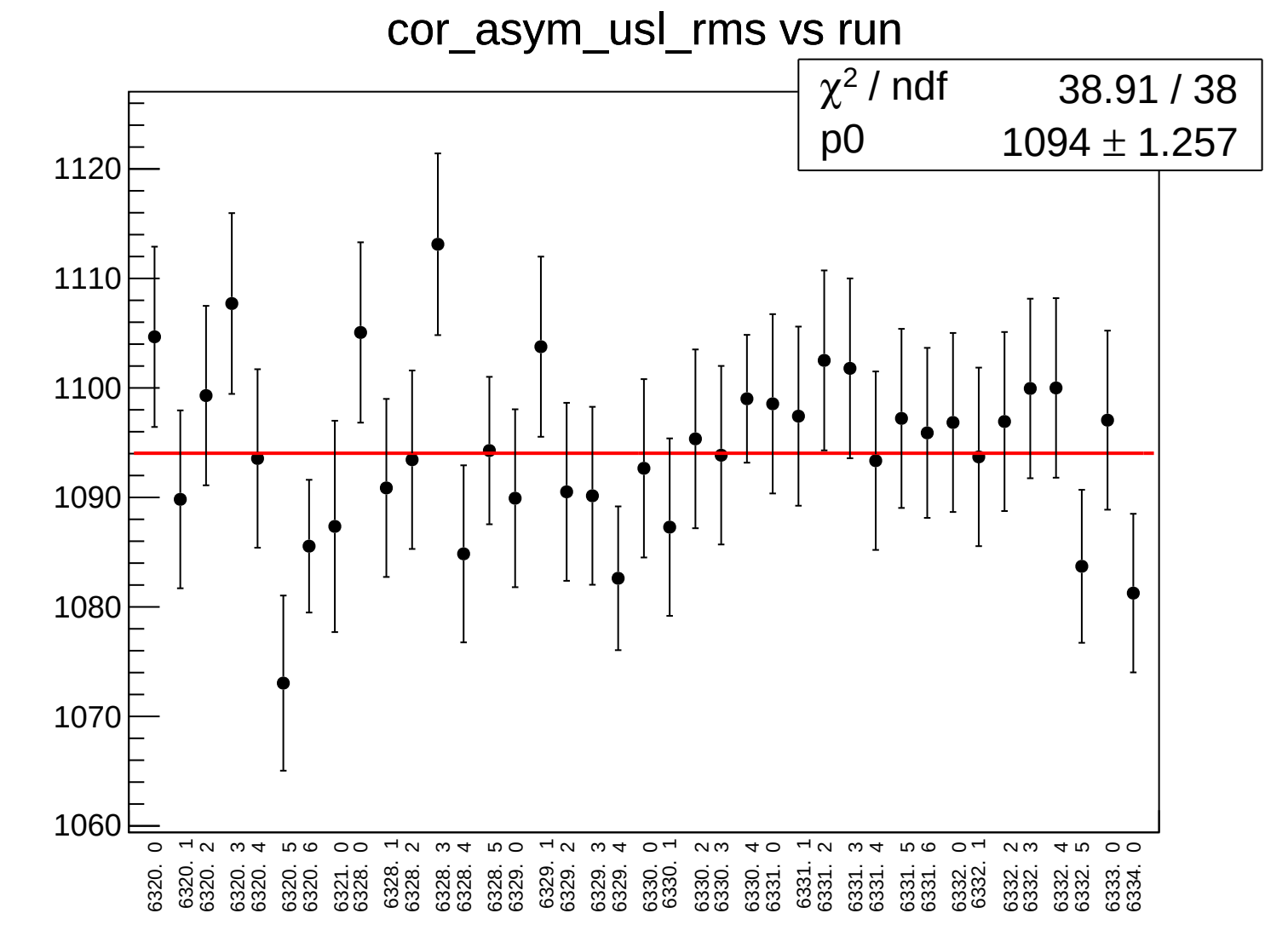

asym_usl_reg_correction_mean vs run
χ² / ndf 33.33 / 38
p0 −868 ± 1986
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 134.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

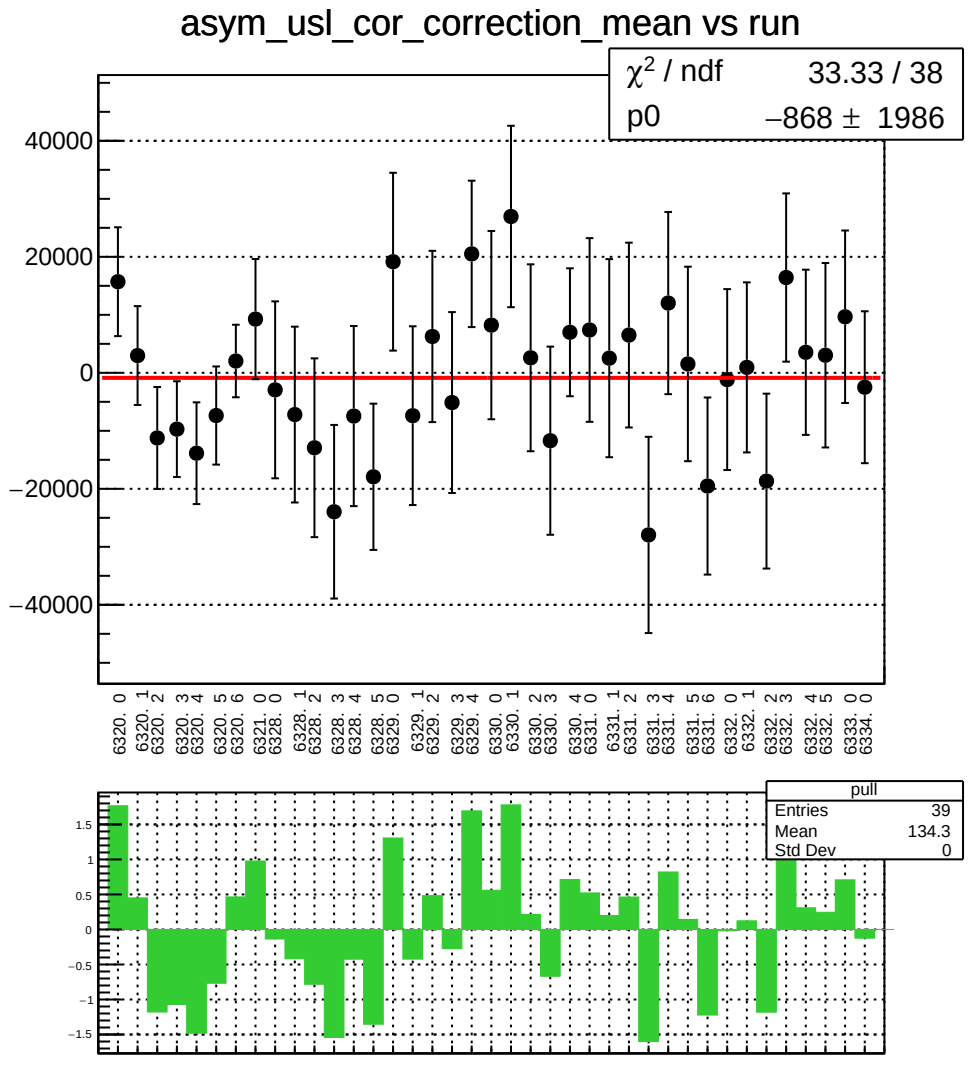

pull1D
Entries 39
Mean 0.01213
Std Dev 0.9243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

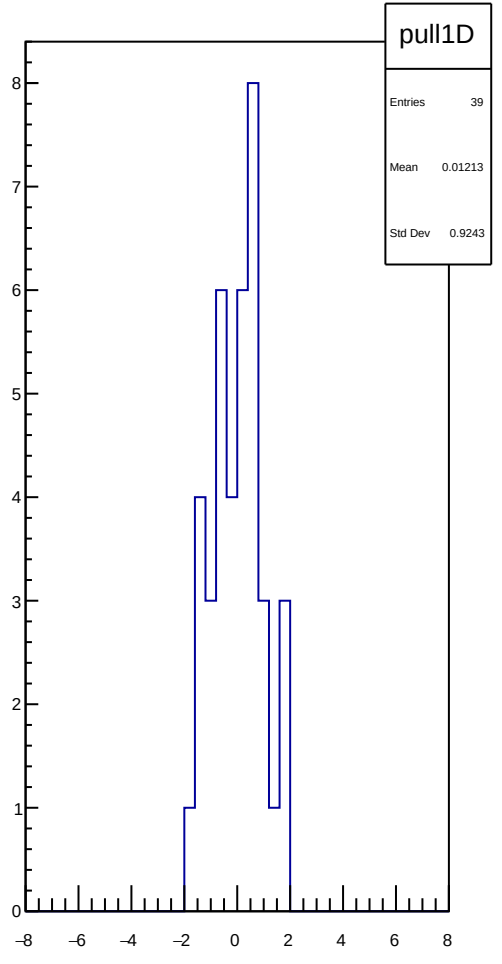

asym_usl_reg_correction_rms vs run
χ² / ndf 5.628e+04 / 38
p0 1177 ± 1.405
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

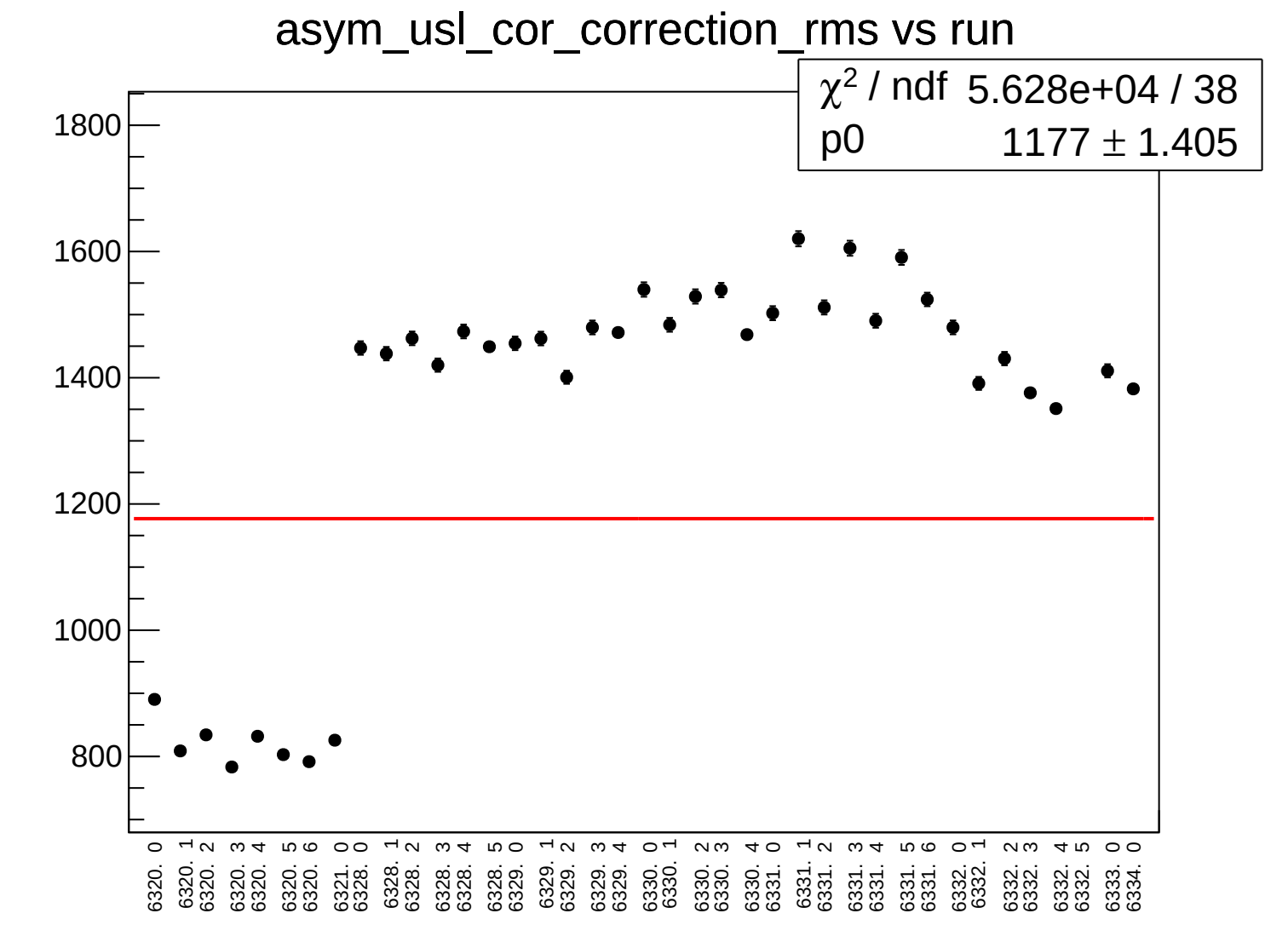

cor_asym_usl_mean vs run
χ² / ndf 45.62 / 38
p0 1221 ± 1777
pull
Entries 39
Mean −16.34
Std Dev 0

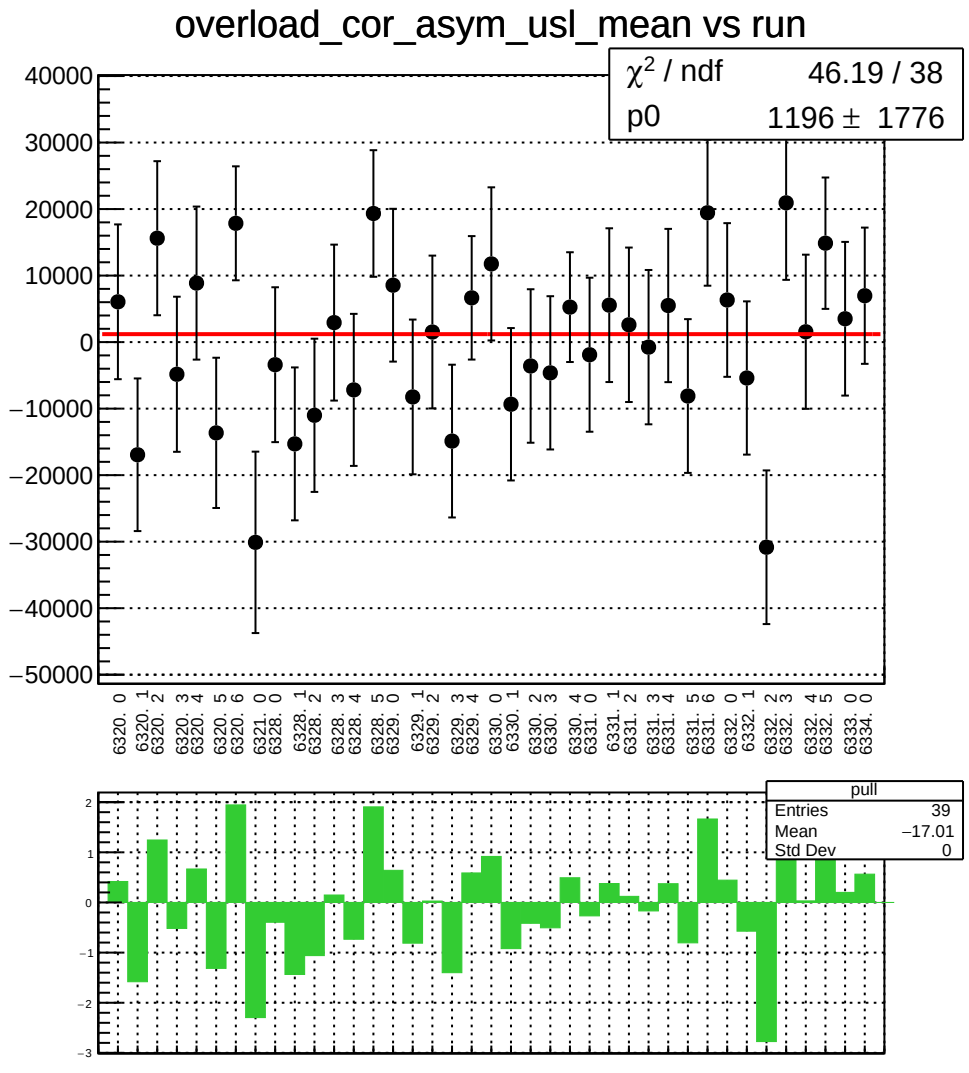

pull1D
Entries 39
Mean −0.05395
Std Dev 1.08

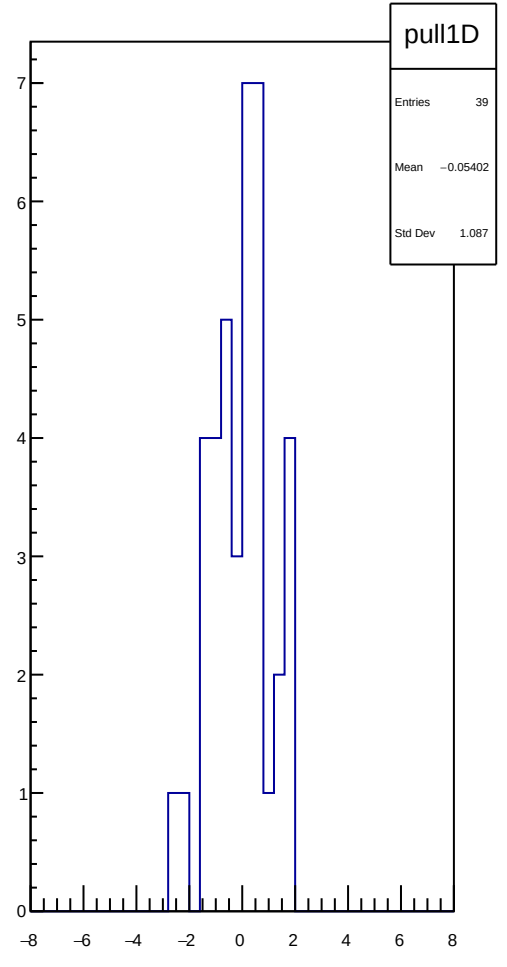

cor_asym_usl_rms vs run
χ² / ndf 38.91 / 38
p0 1094 ± 1.257
1120
1110
1100
1090
1080
1070
1060
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

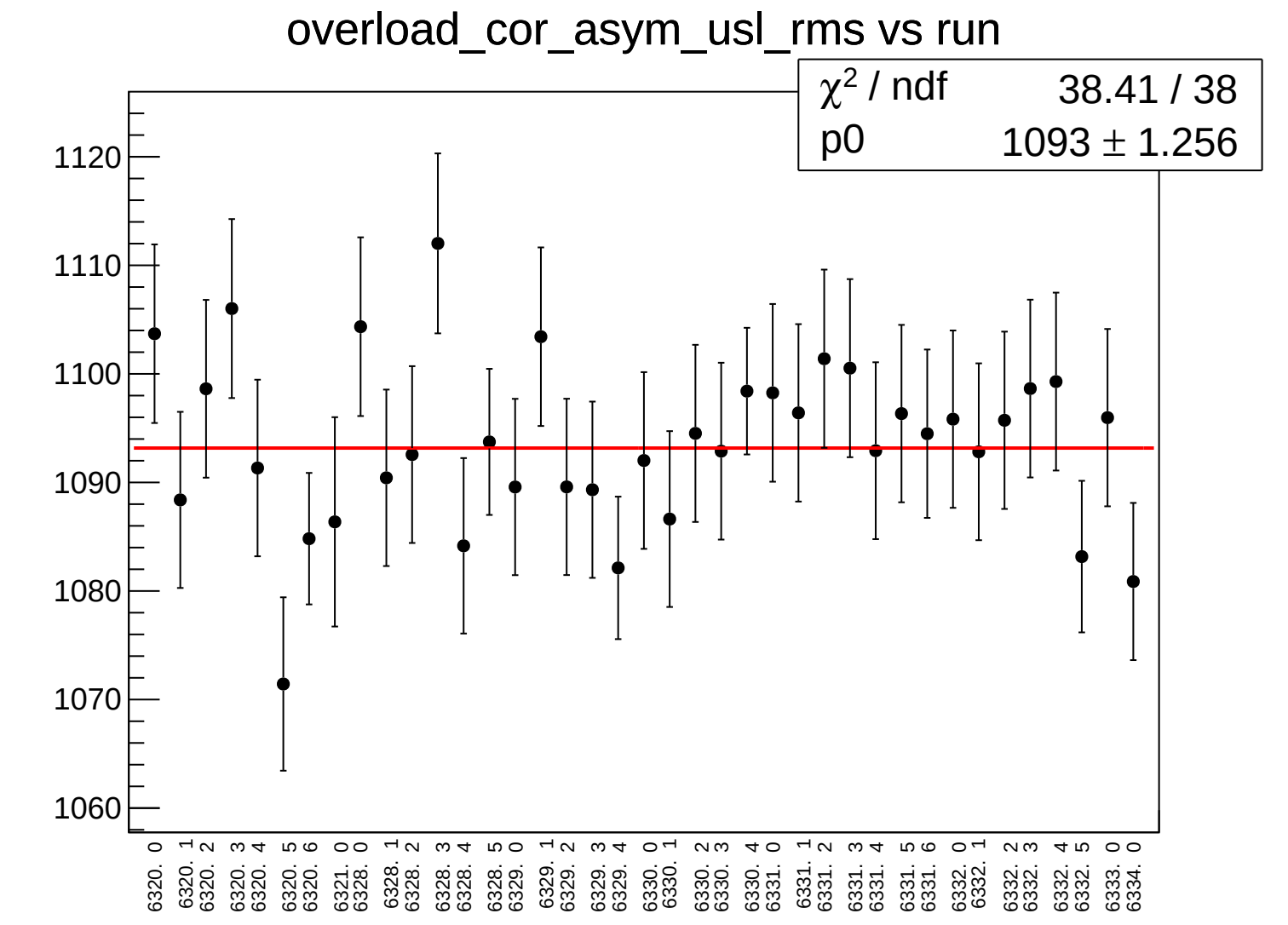

asym_usl_cor_correction_mean vs run
χ² / ndf 33.33 / 38
p0 −868 ± 1986
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 134.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

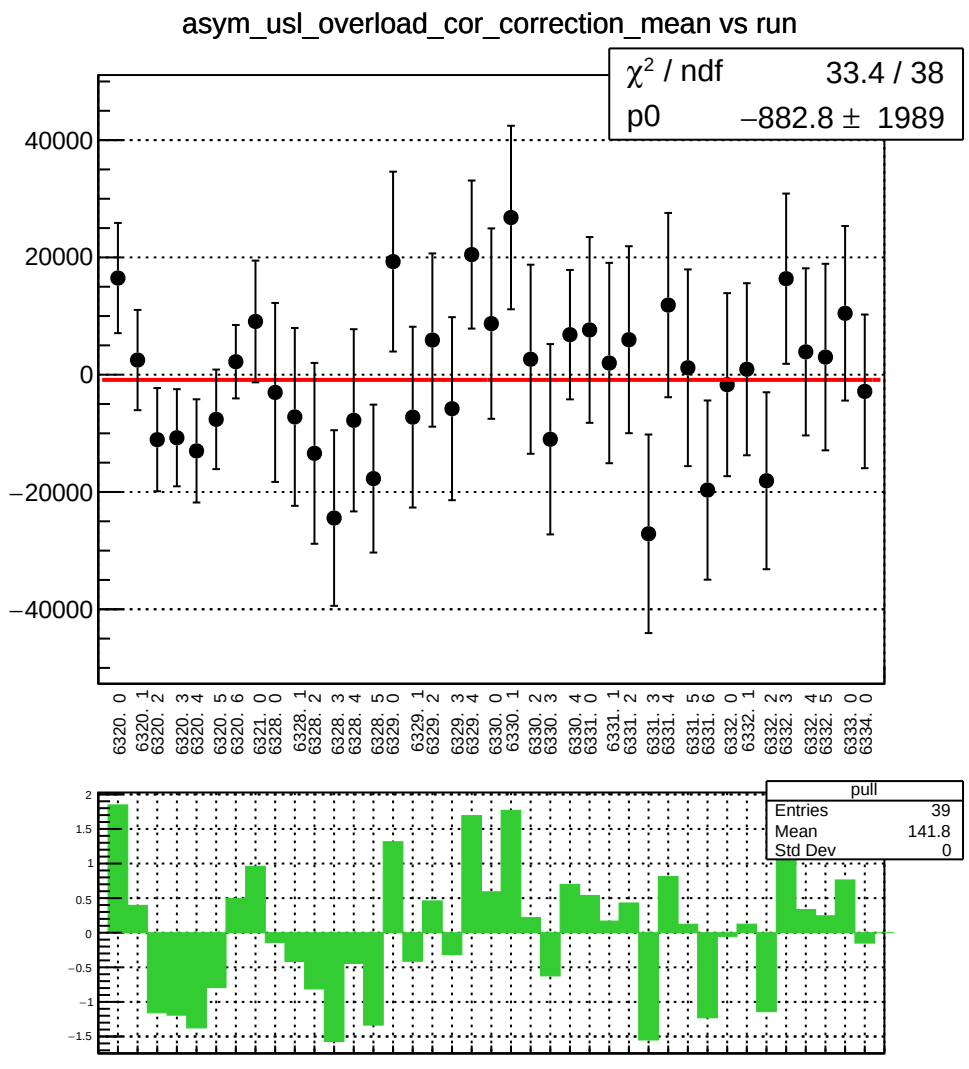

pull1D
Entries 39
Mean 0.01213
Std Dev 0.9243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

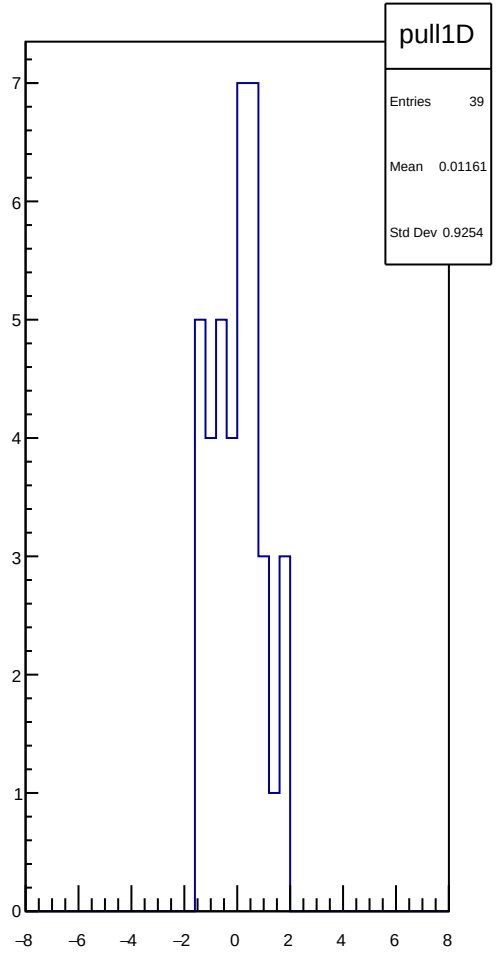

asym_usl_cor_correction_rms vs run
χ² / ndf 5.628e+04 / 38
p0 1177 ± 1.405
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

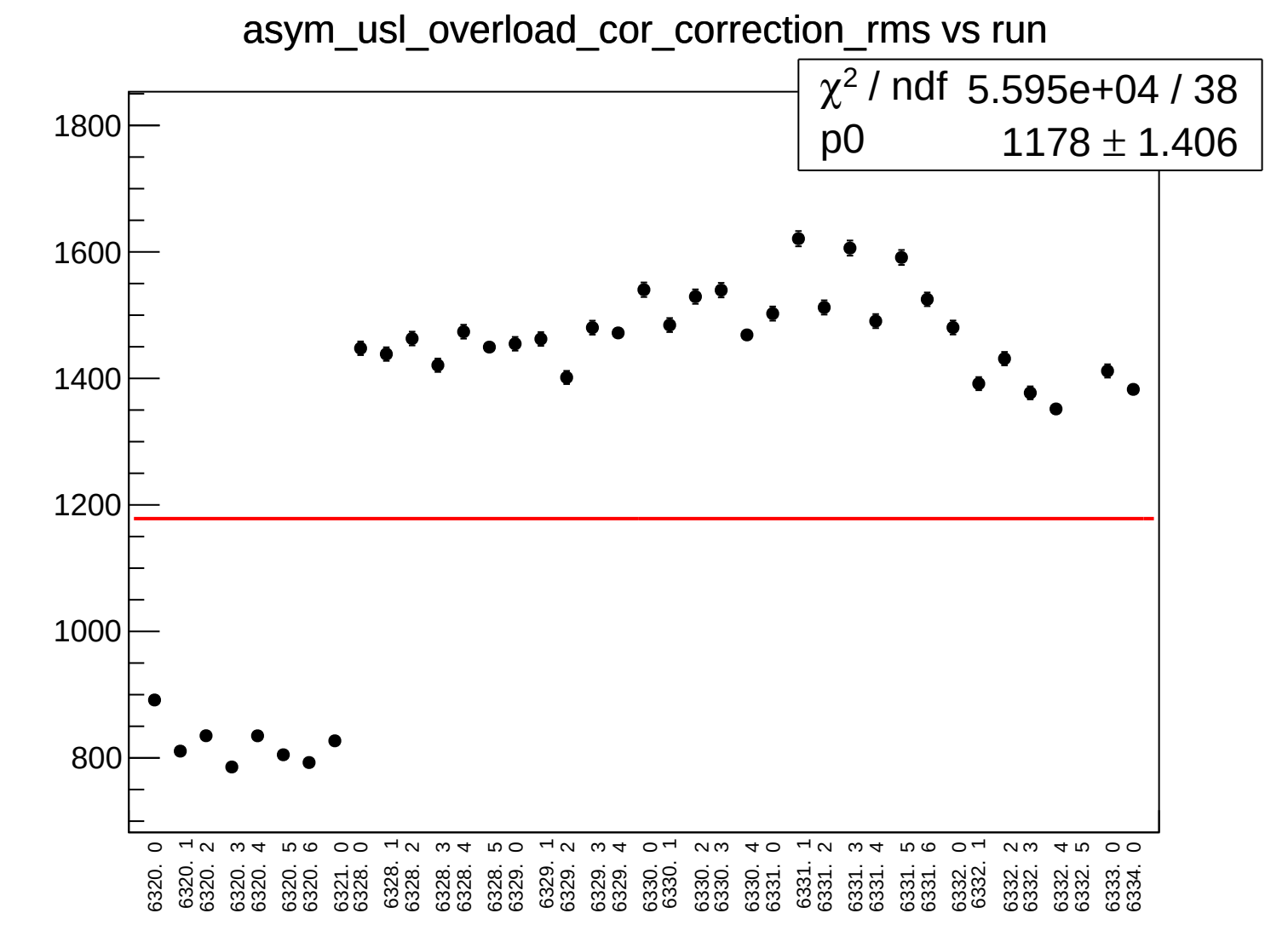

overload_cor_asym_usl_mean vs run
χ² / ndf 46.19 / 38
p0 1196 ± 1776
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.01
Std Dev 0
2
1
0
−1
−2
−3

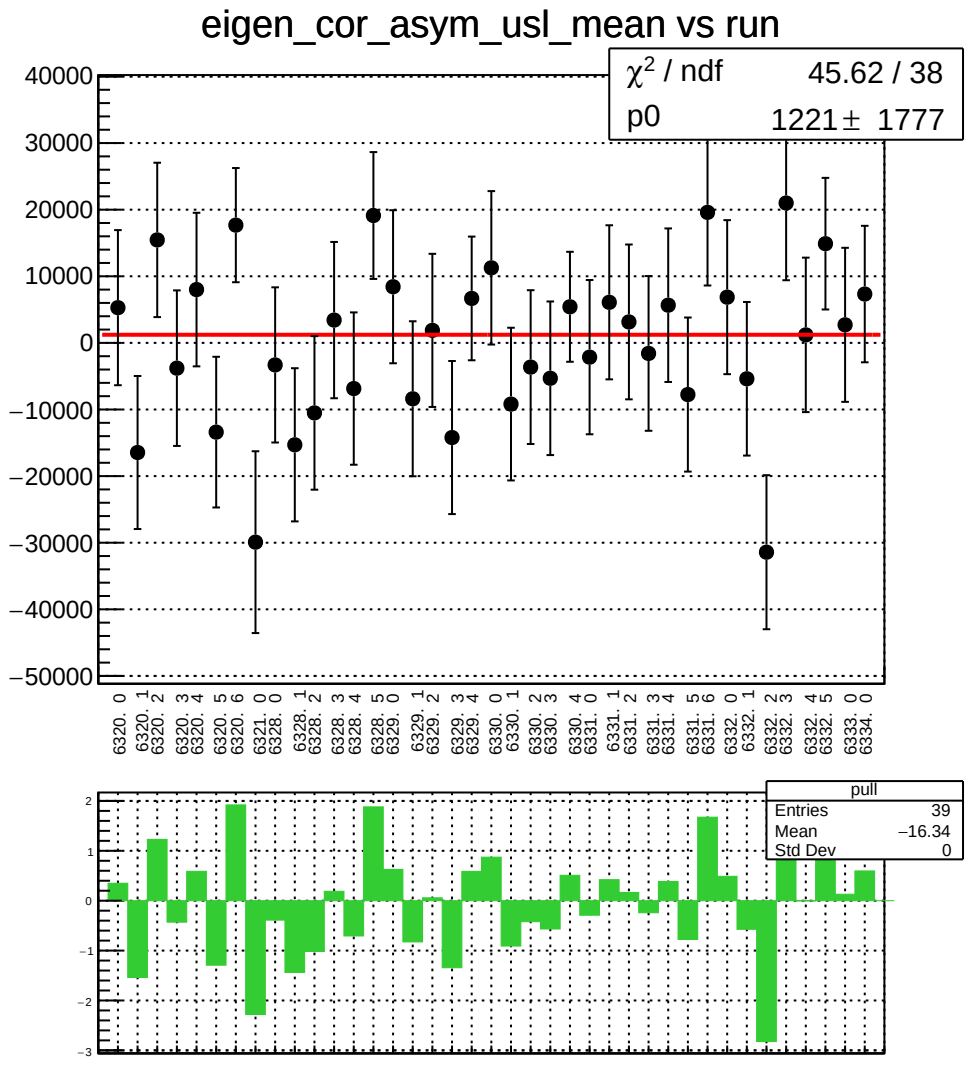

pull1D
Entries 39
Mean −0.05402
Std Dev 1.087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

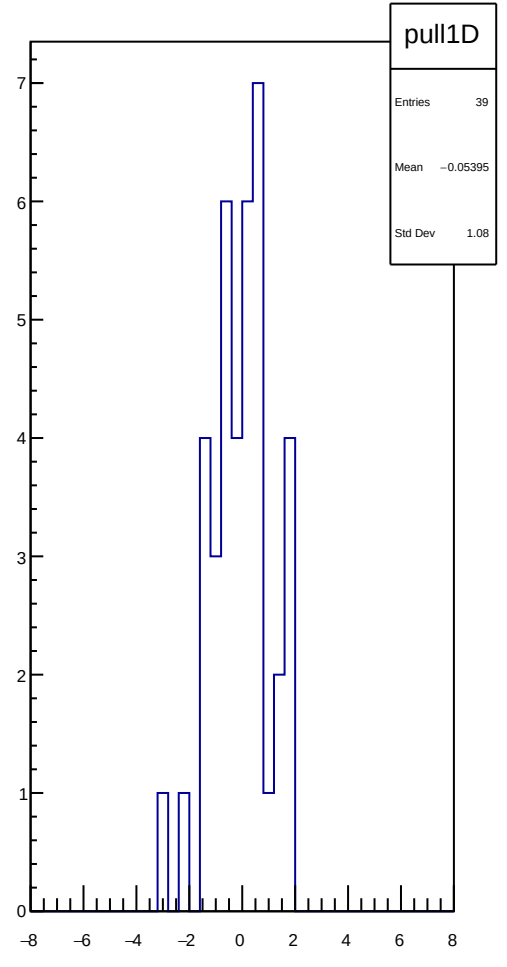

overload_cor_asym_usl_rms vs run
χ² / ndf 38.41 / 38
p0 1093 ± 1.256
1120
1110
1100
1090
1080
1070
1060
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

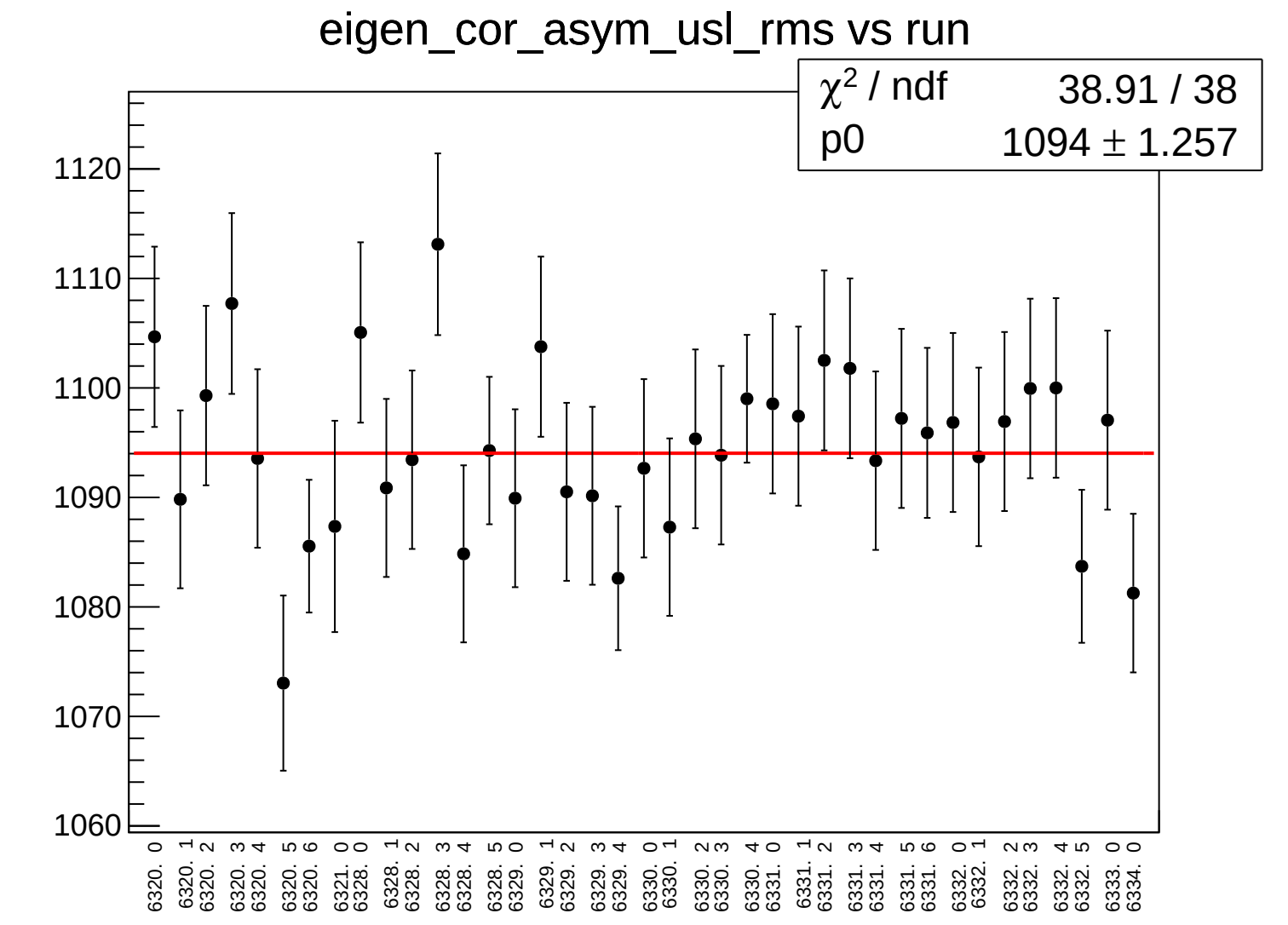

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 33.4 / 38
p0 −882.8 ± 1989
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 141.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

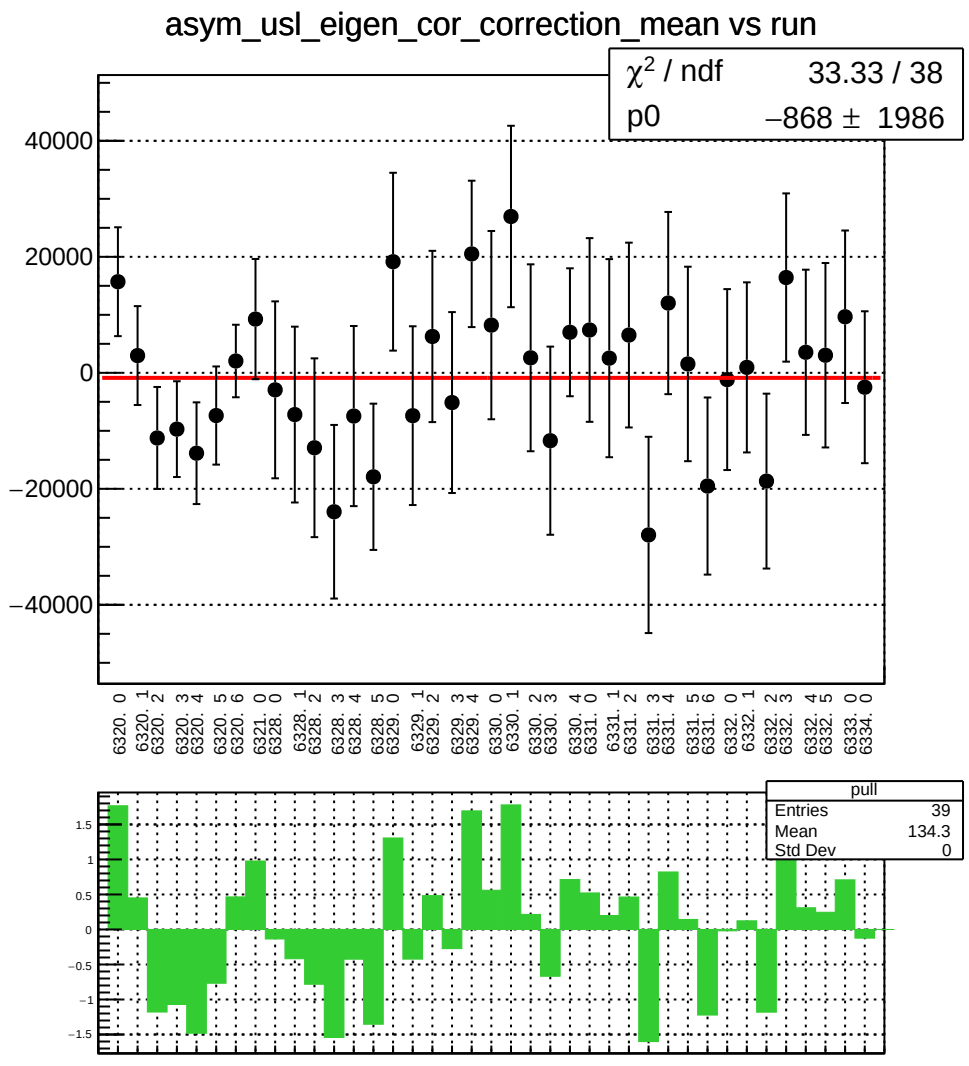

pull1D
Entries 39
Mean 0.01161
Std Dev 0.9254
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

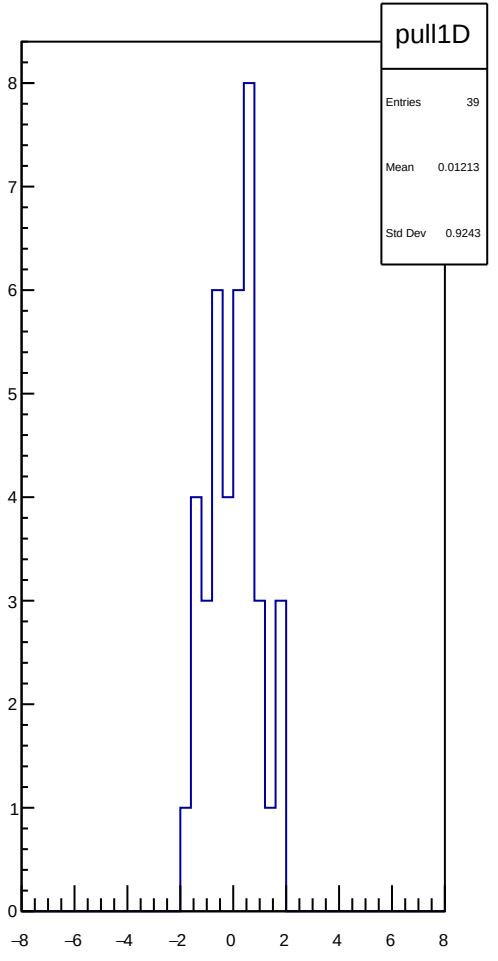

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 5.595e+04 / 38
p0 1178 ± 1.406
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

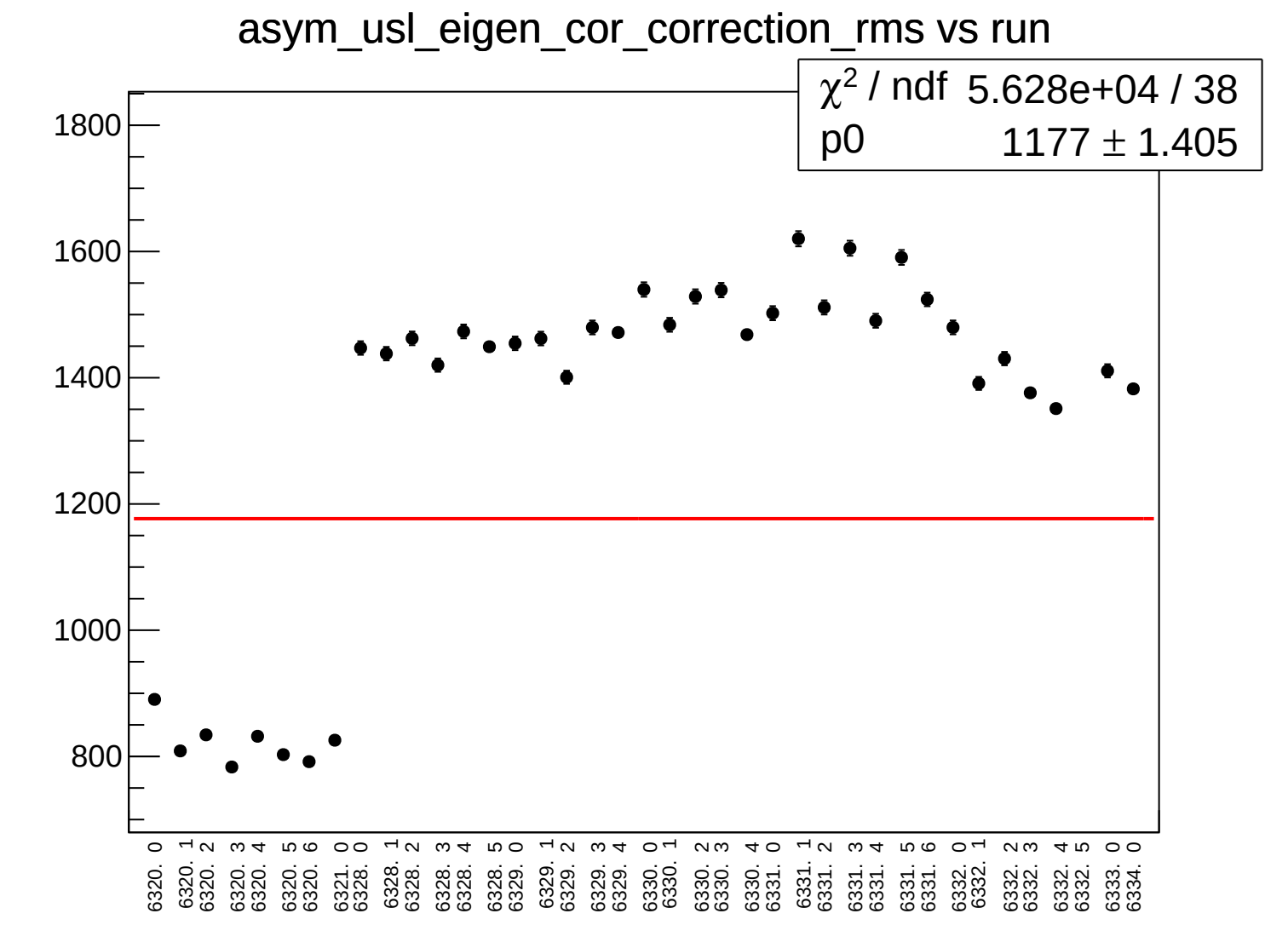

eigen_cor_asym_usl_mean vs run
χ² / ndf 45.62 / 38
p0 1221 ± 1777
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.34
Std Dev 0
2
1
0
−1
−2
−3

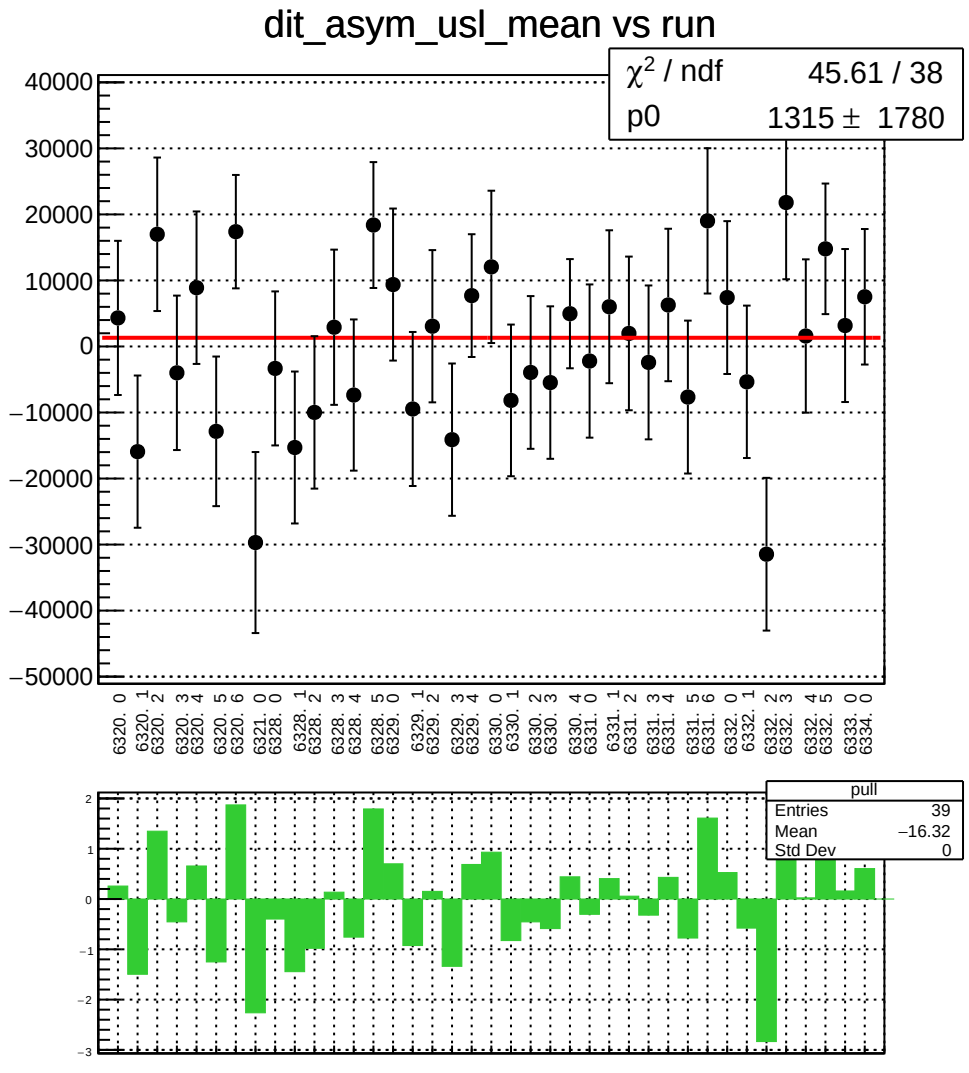

pull1D
Entries 39
Mean −0.05395
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

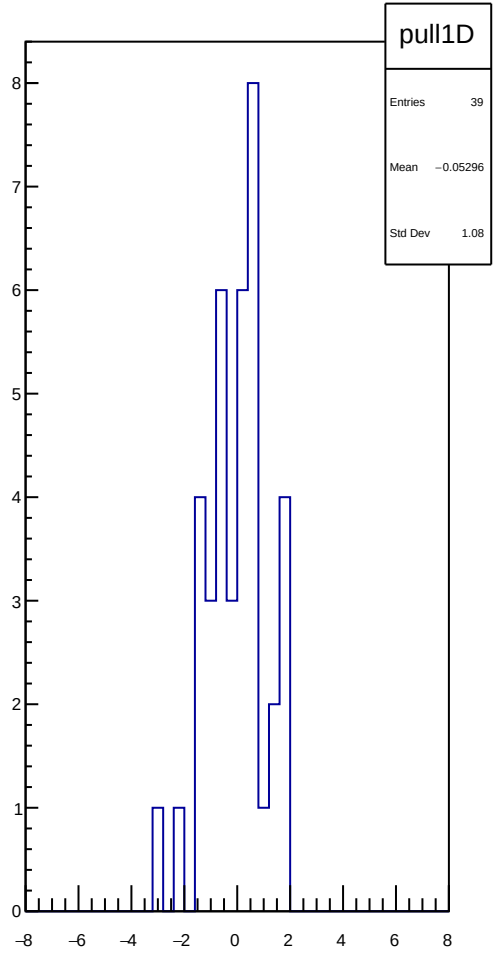

eigen_cor_asym_usl_rms vs run
χ² / ndf 38.91 / 38
p0 1094 ± 1.257
1120
1110
1100
1090
1080
1070
1060
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

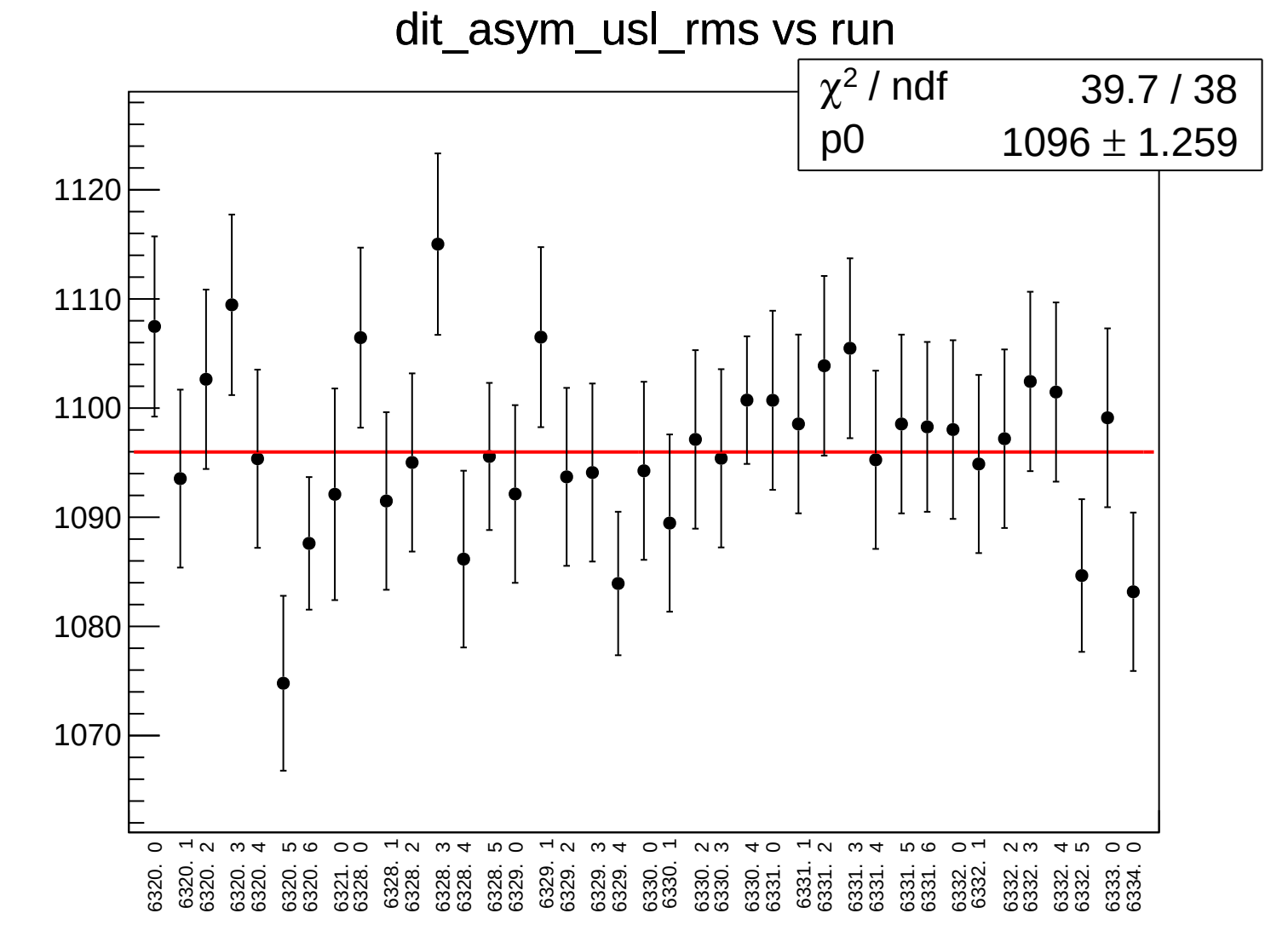

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 33.33 / 38
p0 −868 ± 1986
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 134.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

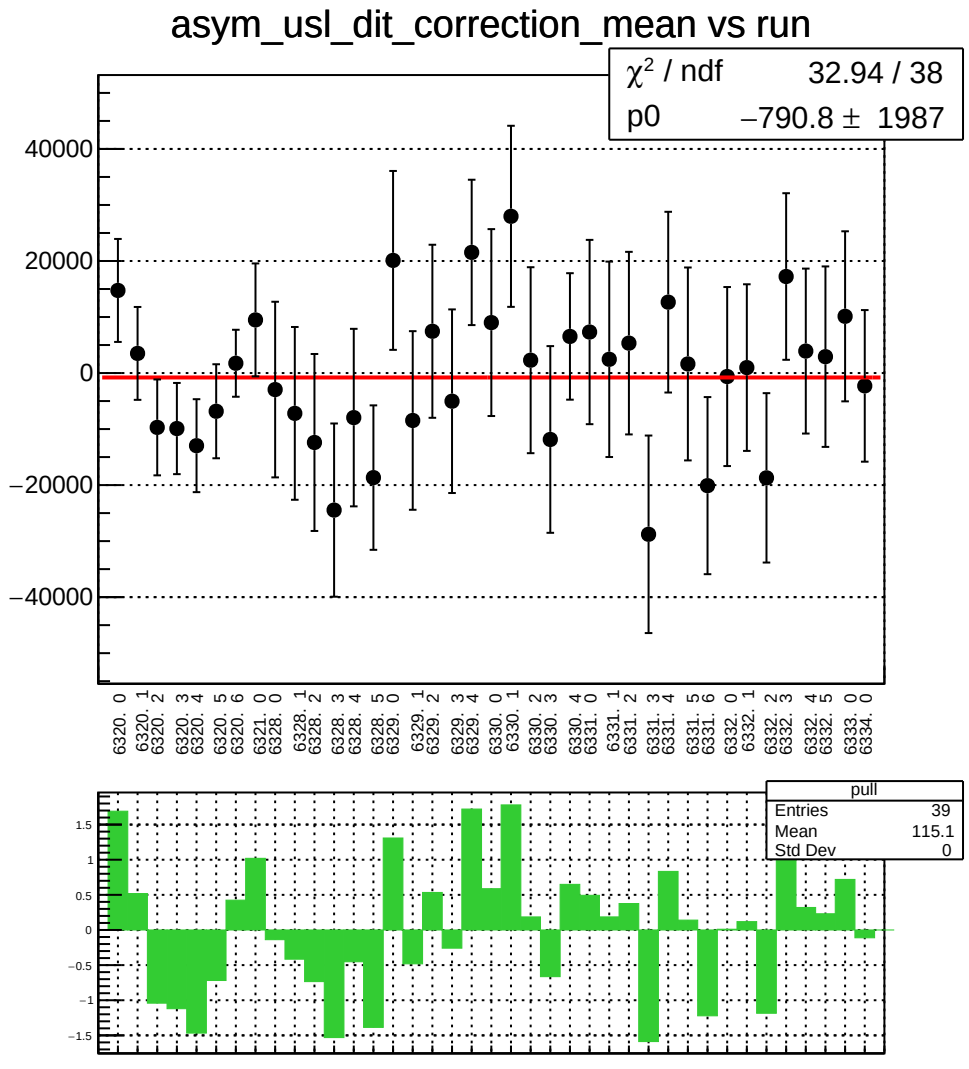

pull1D
Entries 39
Mean 0.01213
Std Dev 0.9243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

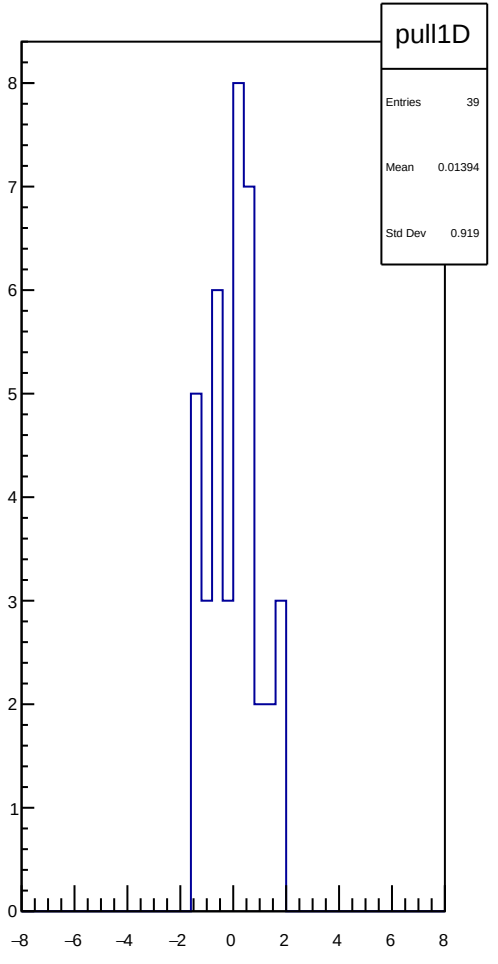

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 5.628e+04 / 38
p0 1177 ± 1.405
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

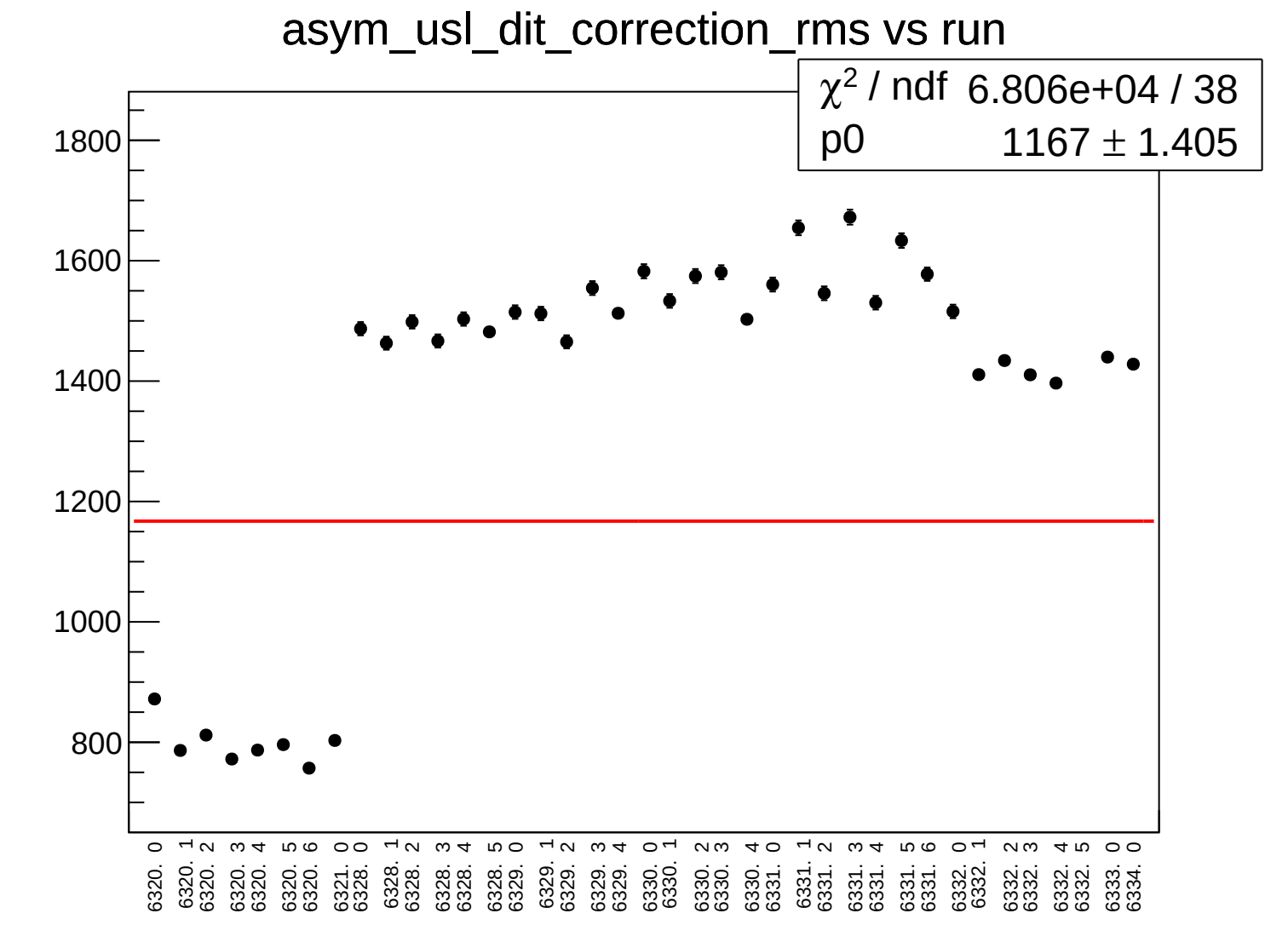

dit_asym_usl_mean vs run
χ² / ndf 45.61 / 38
p0 1315 ± 1780
pull
Entries 39
Mean −16.32
Std Dev 0

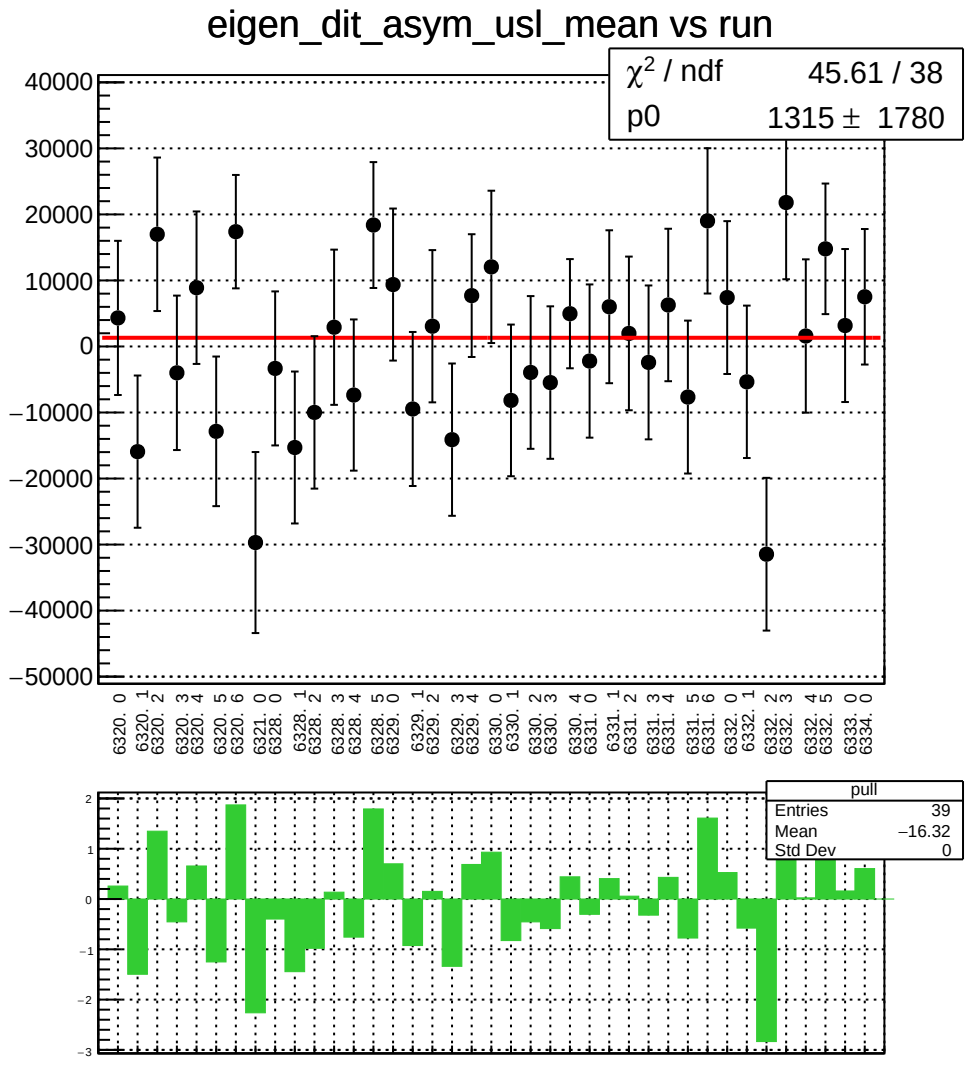

pull1D
Entries 39
Mean −0.05296
Std Dev 1.08

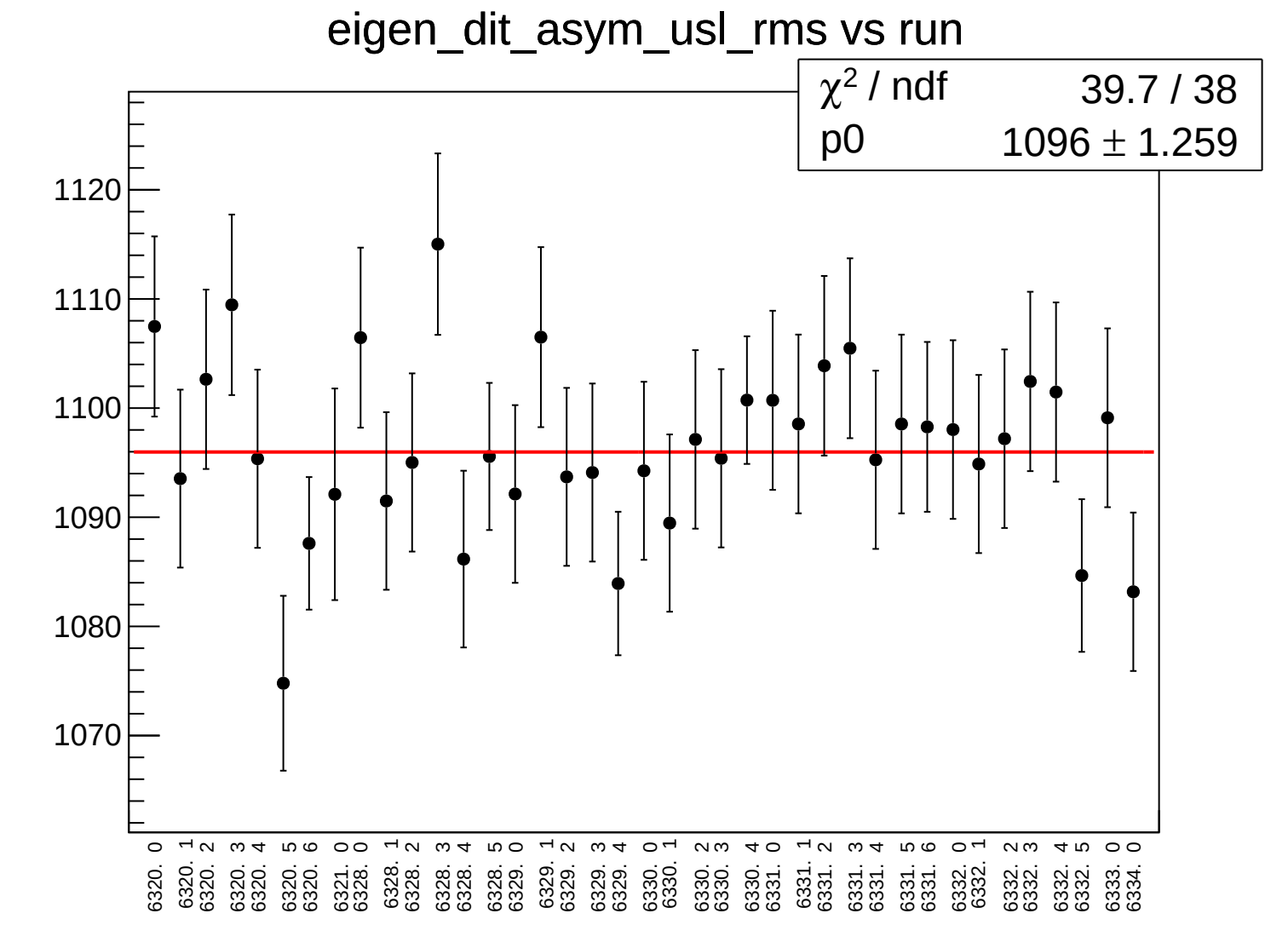

dit_asym_usl_rms vs run
χ² / ndf 39.7 / 38
p0 1096 ± 1.259
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

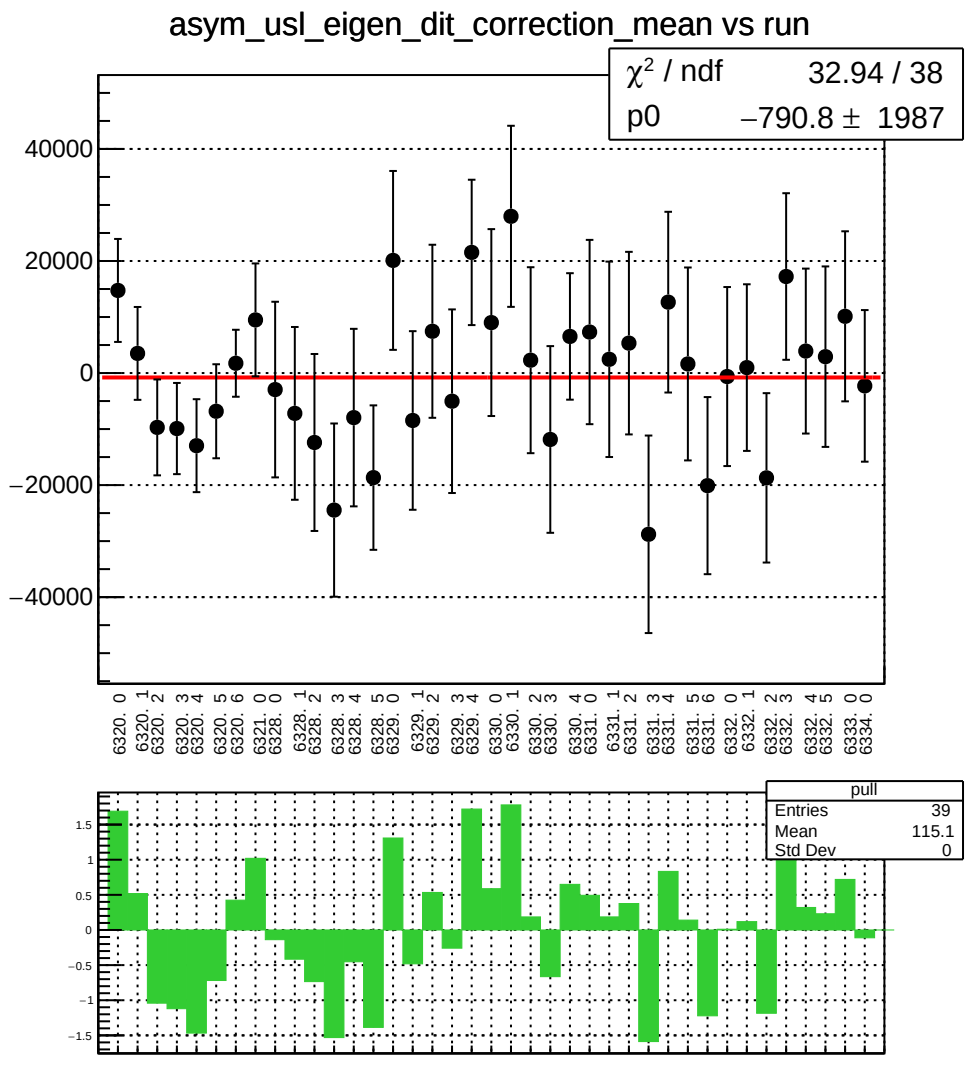

asym_usl_dit_correction_mean vs run
χ² / ndf 32.94 / 38
p0 −790.8 ± 1987
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 115.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

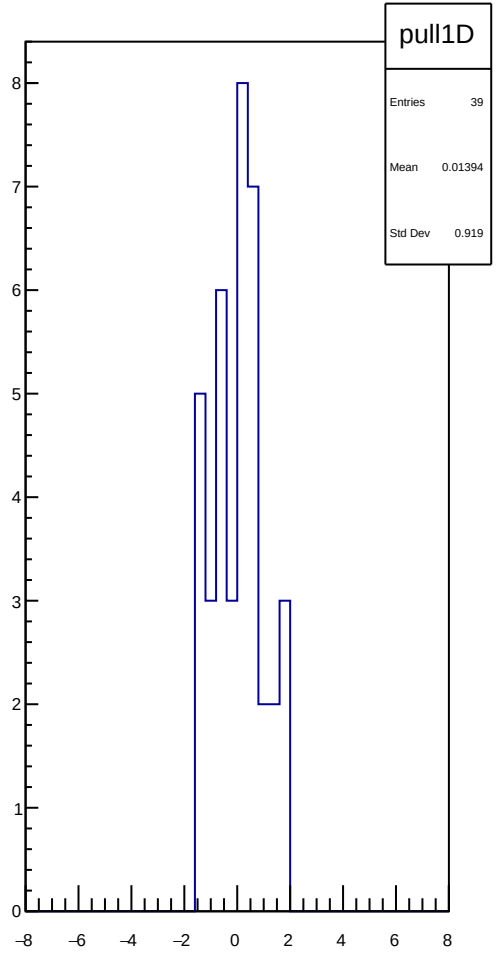

pull1D
Entries 39
Mean 0.01394
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

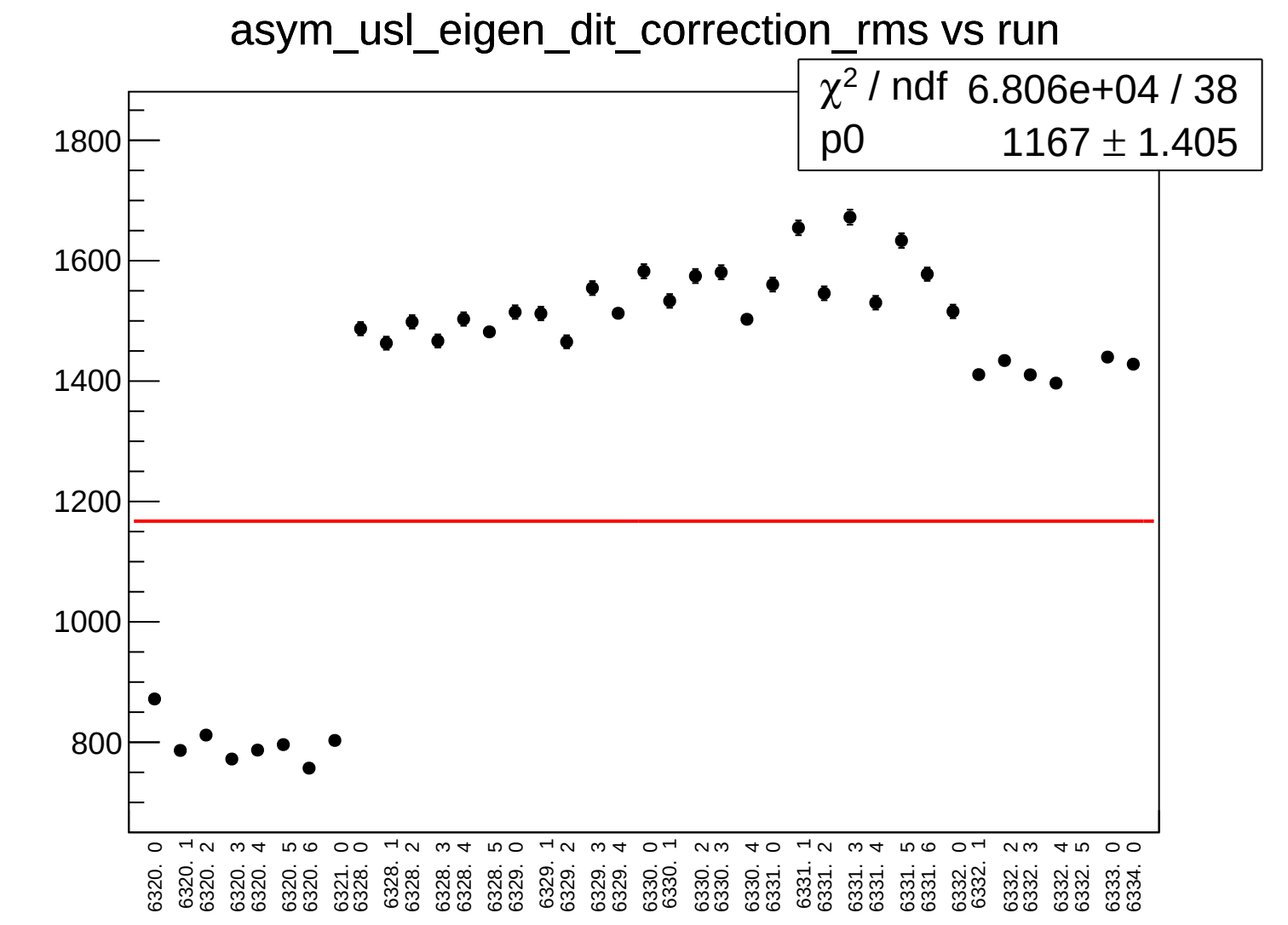

asym_usl_dit_correction_rms vs run
χ² / ndf 6.806e+04 / 38
p0 1167 ± 1.405
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

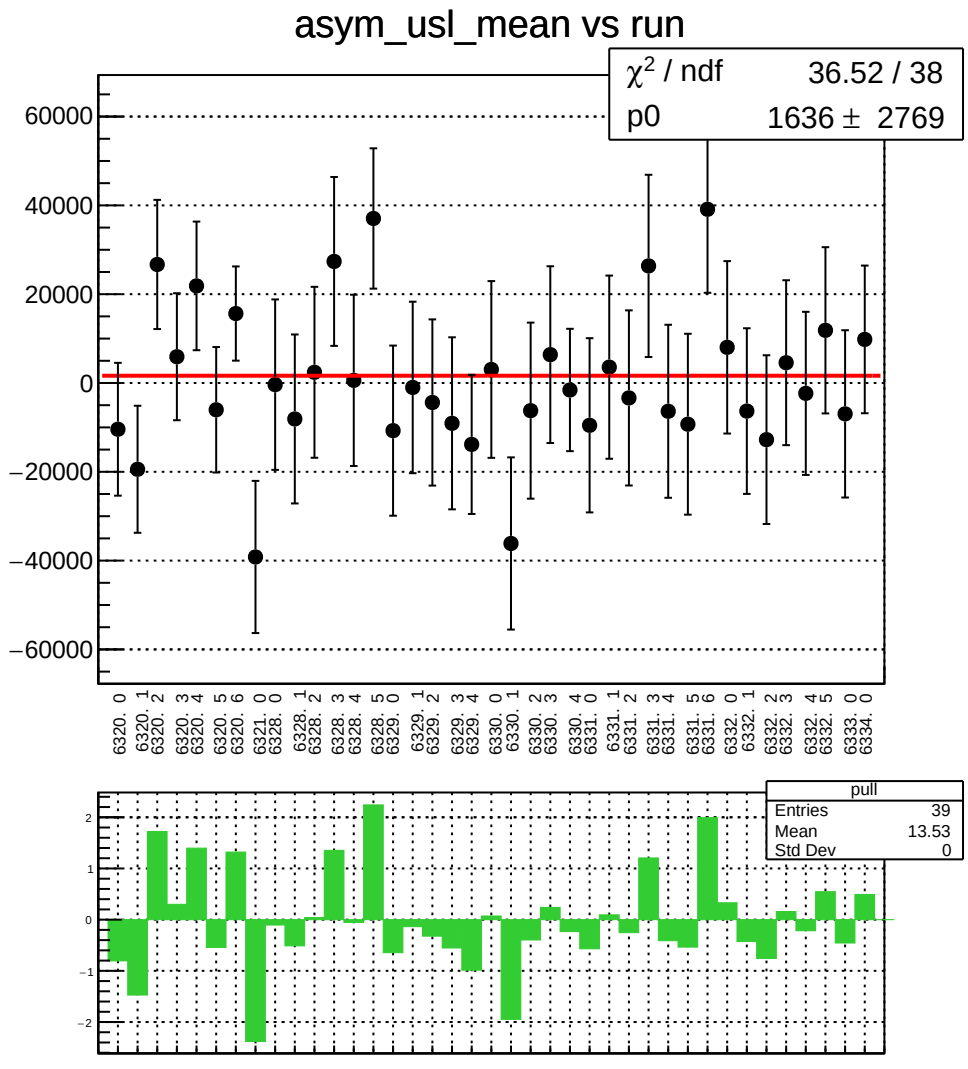

eigen_dit_asym_usl_mean vs run
χ² / ndf 45.61 / 38
p0 1315 ± 1780
pull
Entries 39
Mean −16.32
Std Dev 0
pull1D
Entries 39
Mean −0.05296
Std Dev 1.08

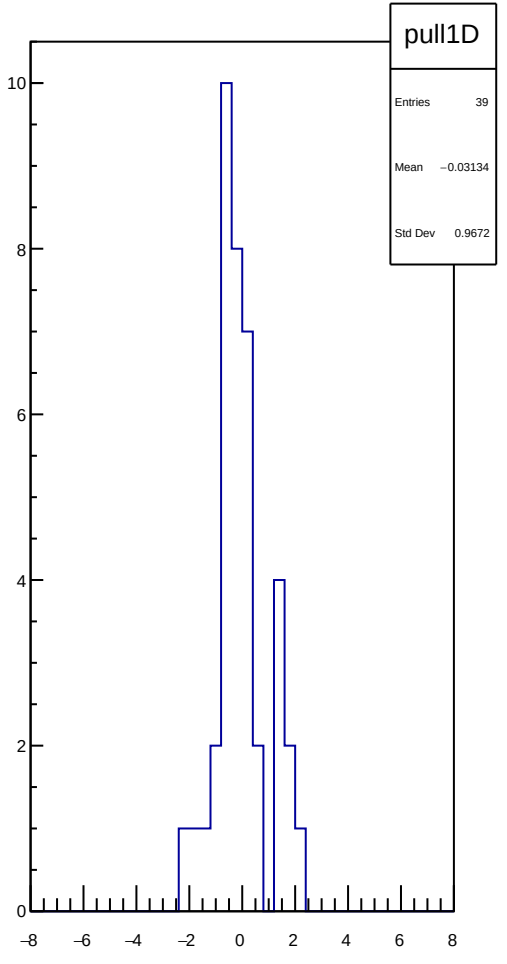

eigen_dit_asym_usl_rms vs run
χ² / ndf 39.7 / 38
p0 1096 ± 1.259
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

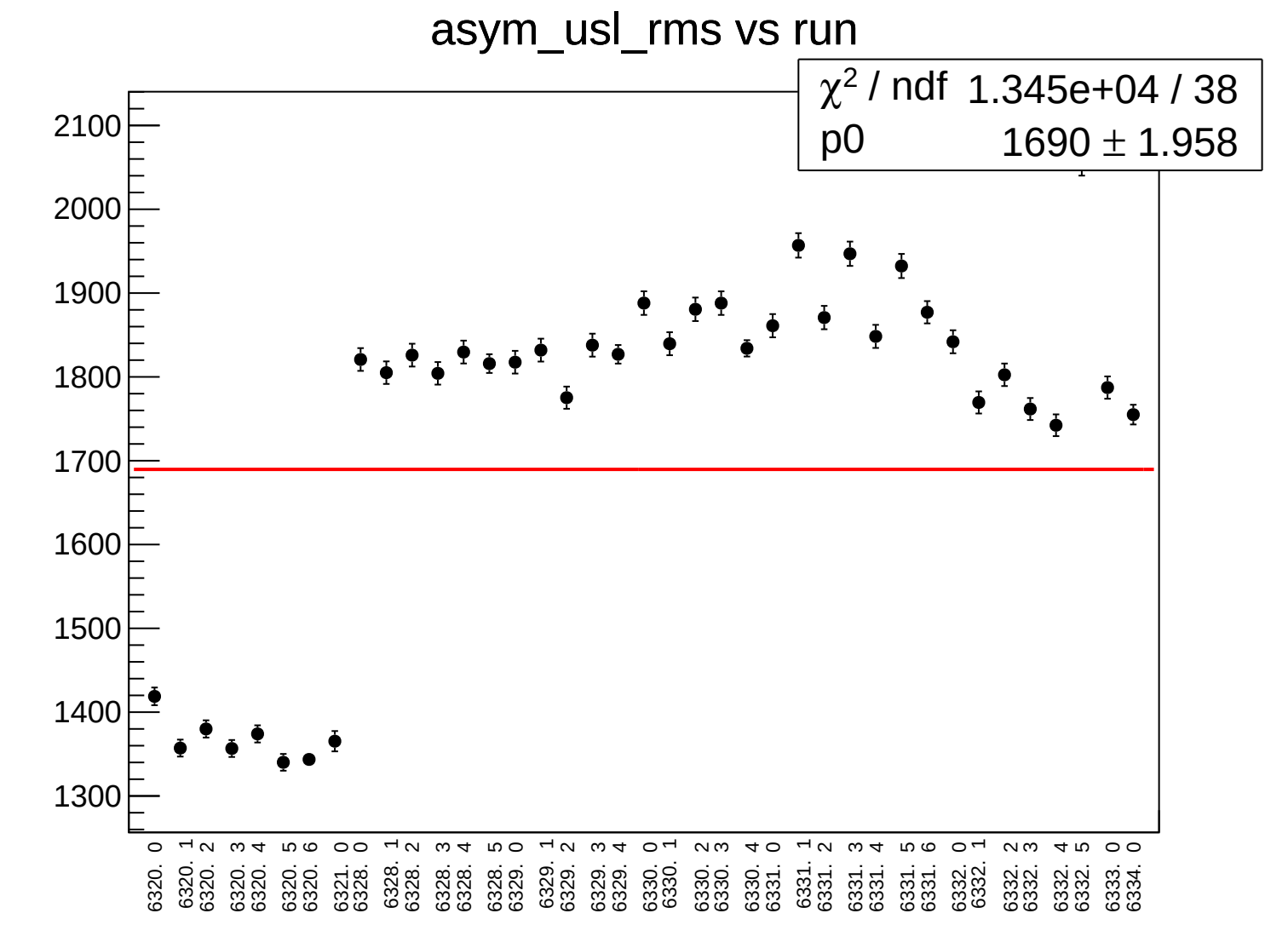

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 32.94 / 38
p0 −790.8 ± 1987
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 115.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

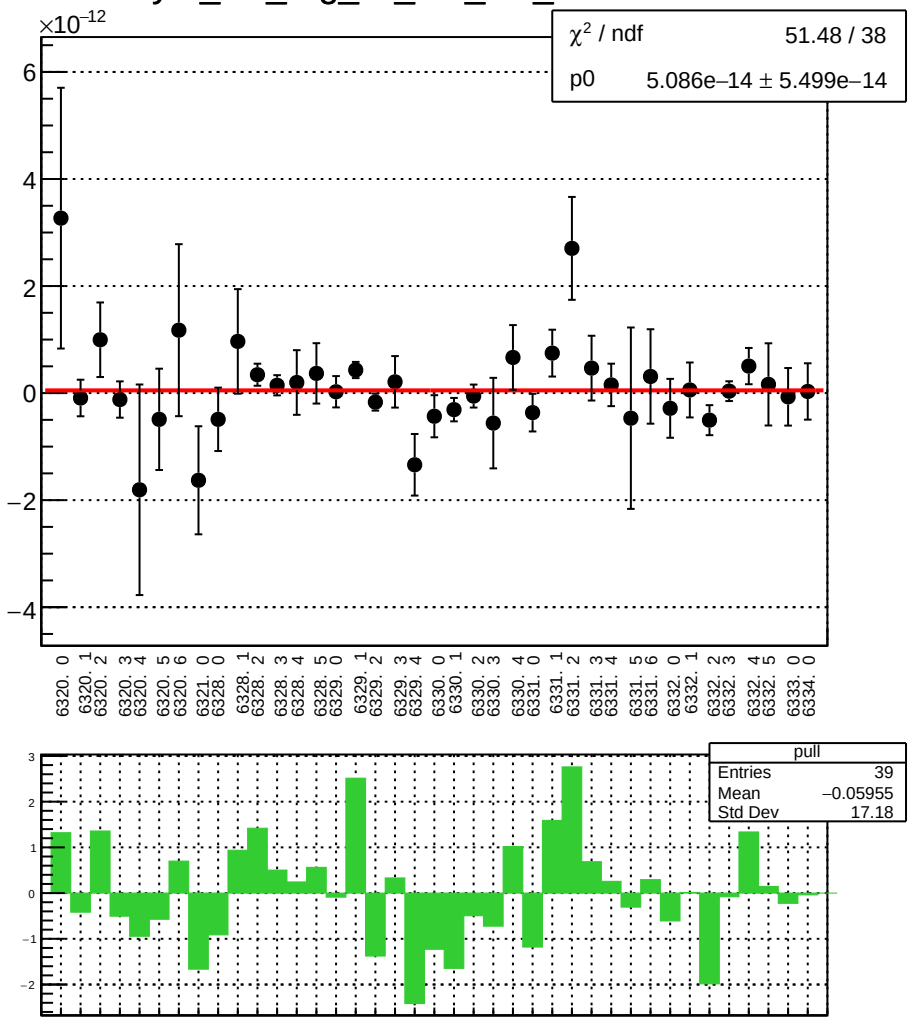

pull1D
Entries 39
Mean 0.01394
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

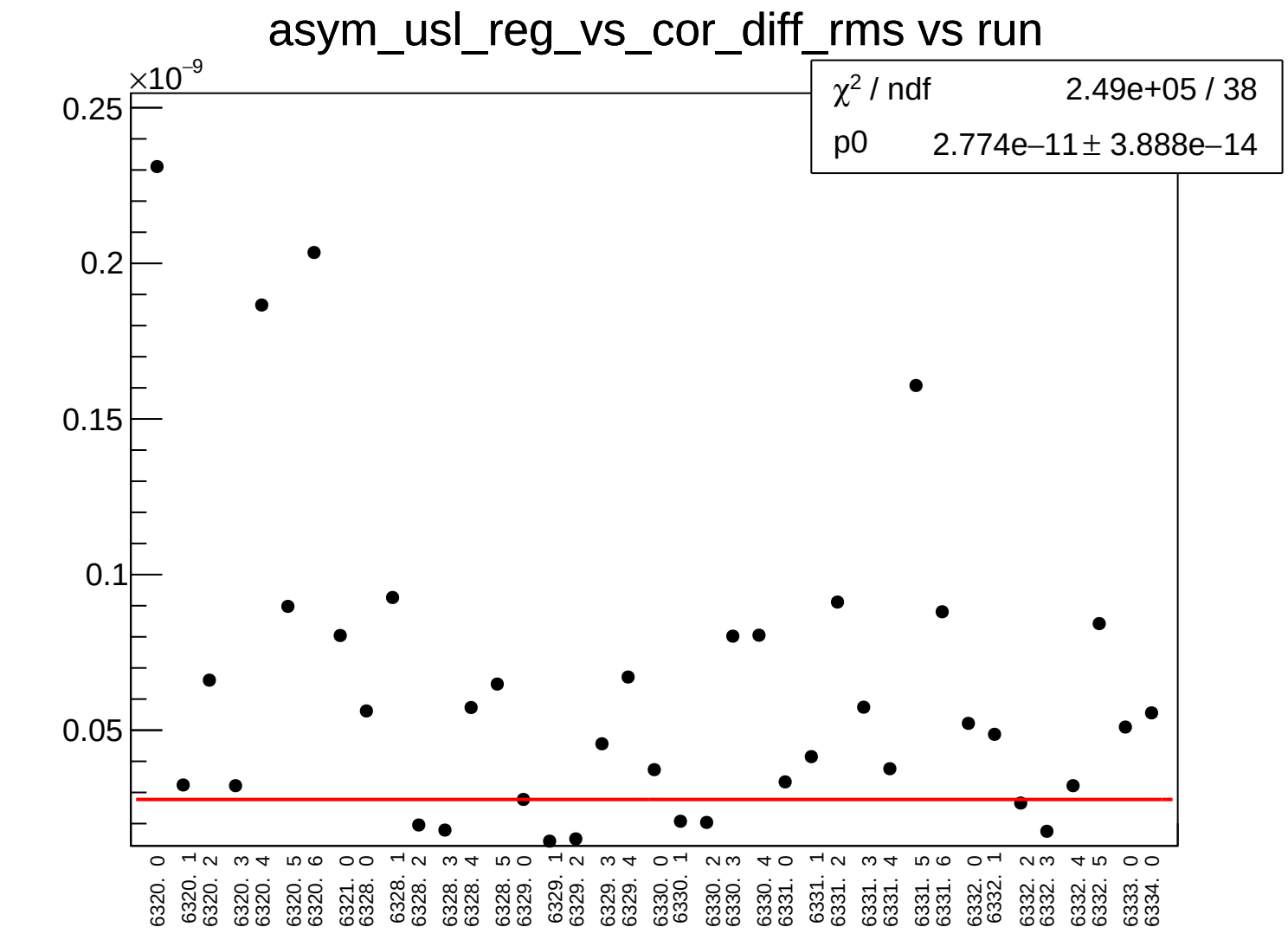

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 6.806e+04 / 38
p0 1167 ± 1.405
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

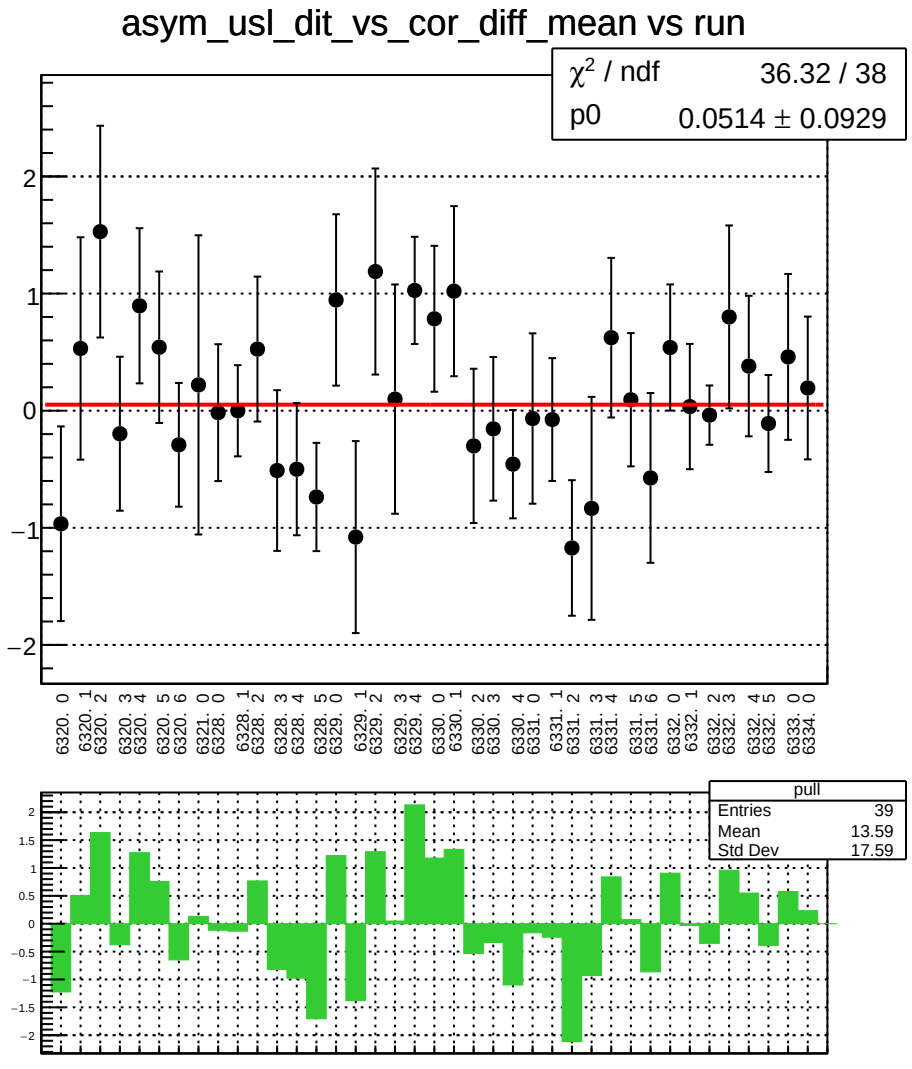

asym_usl_mean vs run
χ² / ndf 36.52 / 38
p0 1636 ± 2769
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.53
Std Dev 0
2
1
0
−1
−2

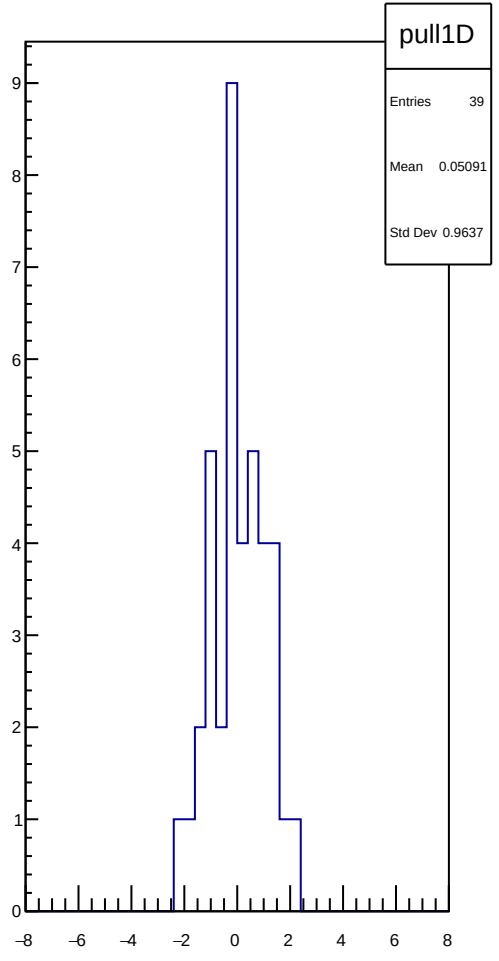

pull1D
Entries 39
Mean −0.03134
Std Dev 0.9672
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

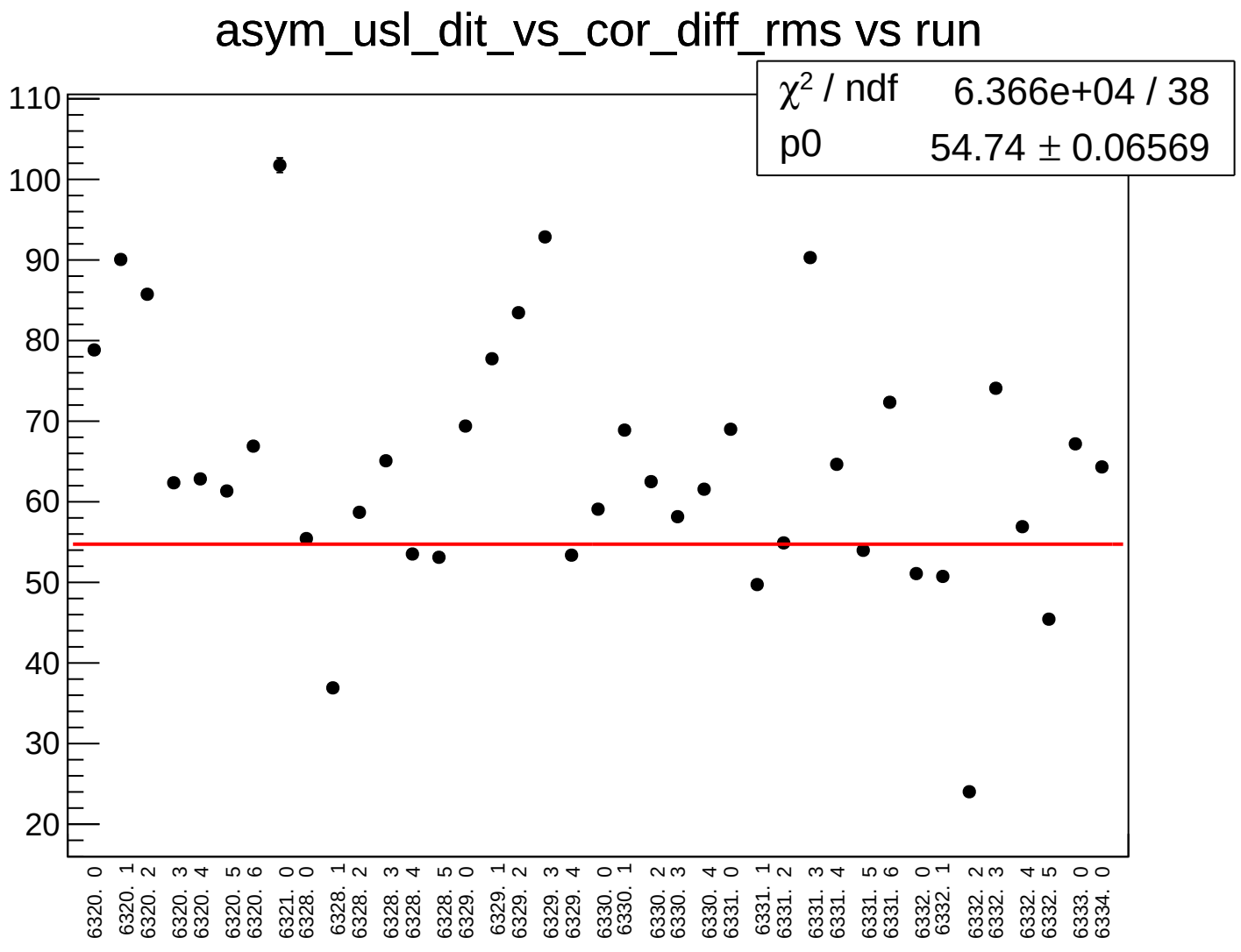

asym_usl_rms vs run
χ² / ndf 1.345e+04 / 38
p0 1690 ± 1.958
2100
2000
1900
1800
1700
1600
1500
1400
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

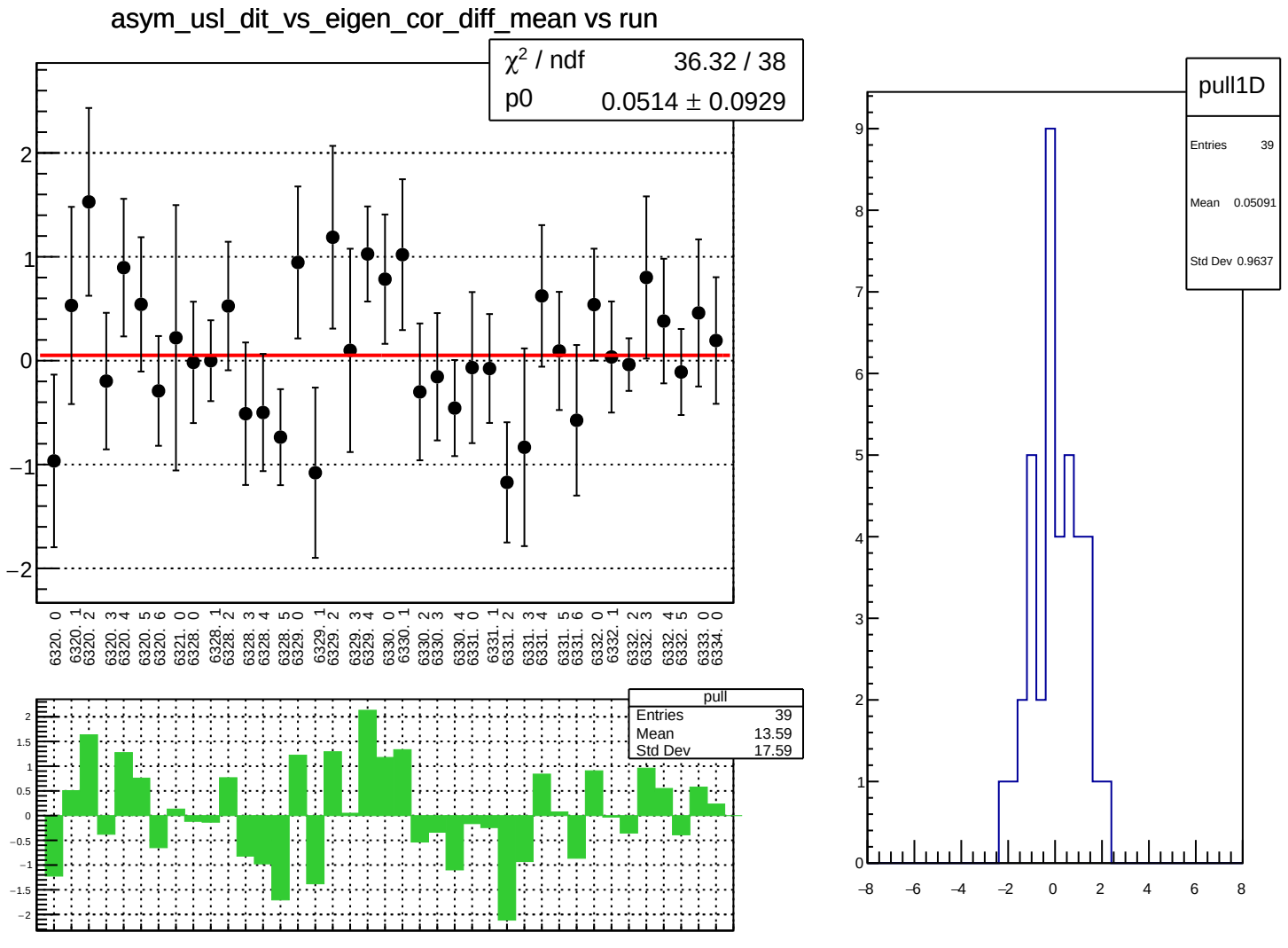

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.48 / 38
p0 5.086e−14 ± 5.499e−14
6
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −0.05955
Std Dev 17.18
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01477
Std Dev 1.149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

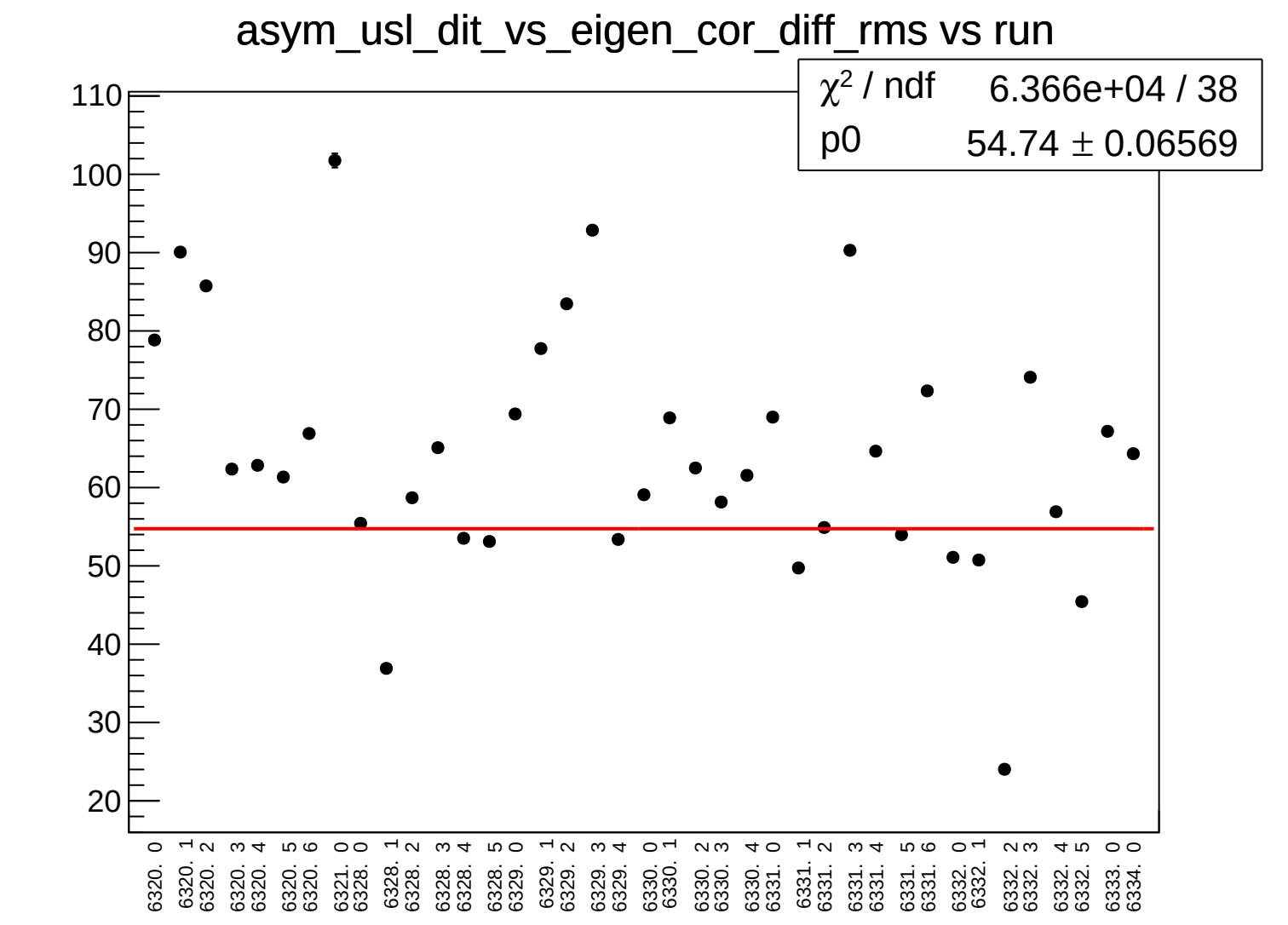

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.49e+05 / 38
p0 2.774e−11 ± 3.888e−14
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

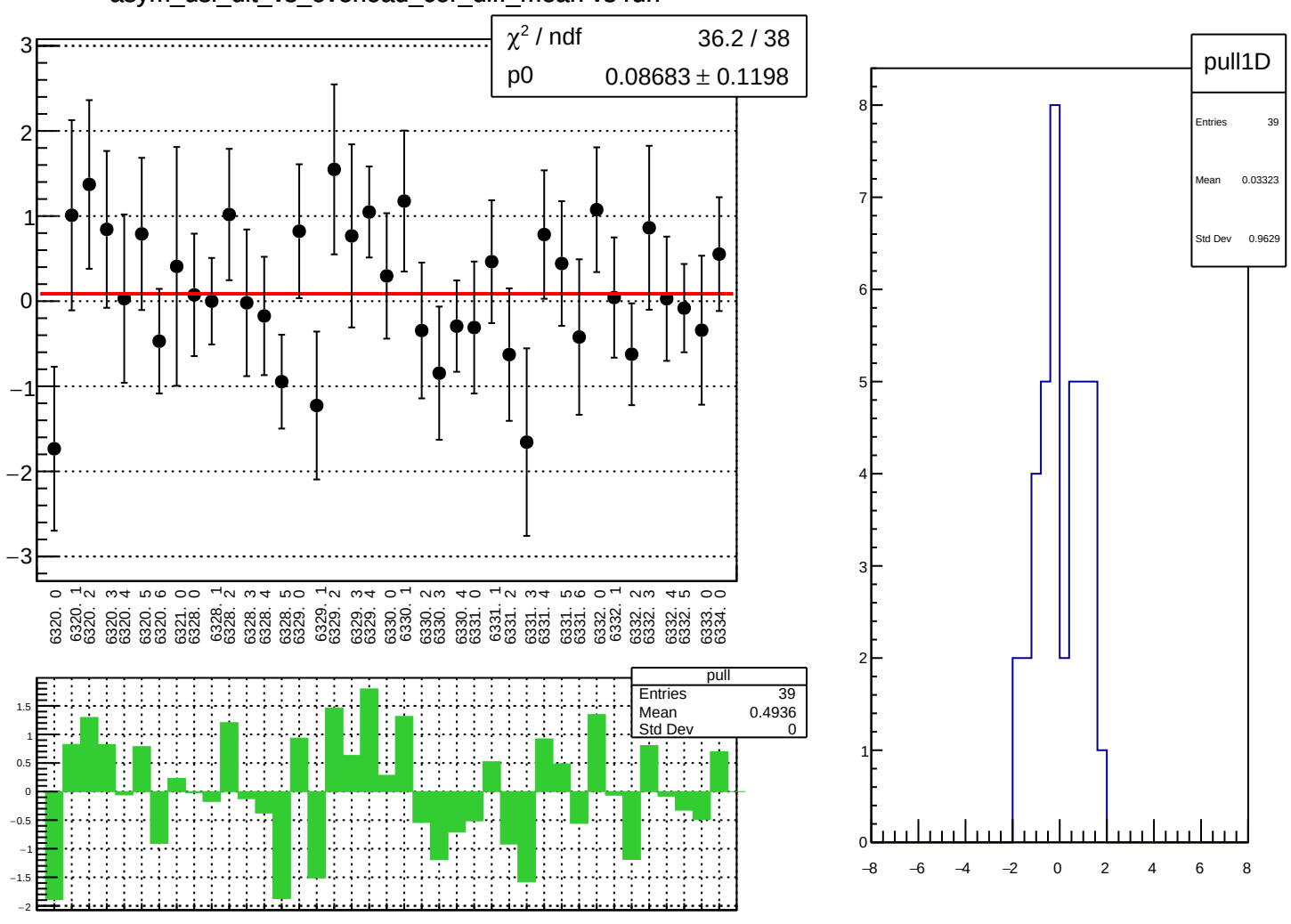

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 36.32 / 38
p0 0.0514 ± 0.0929
pull
Entries 39
Mean 13.59
Std Dev 17.59

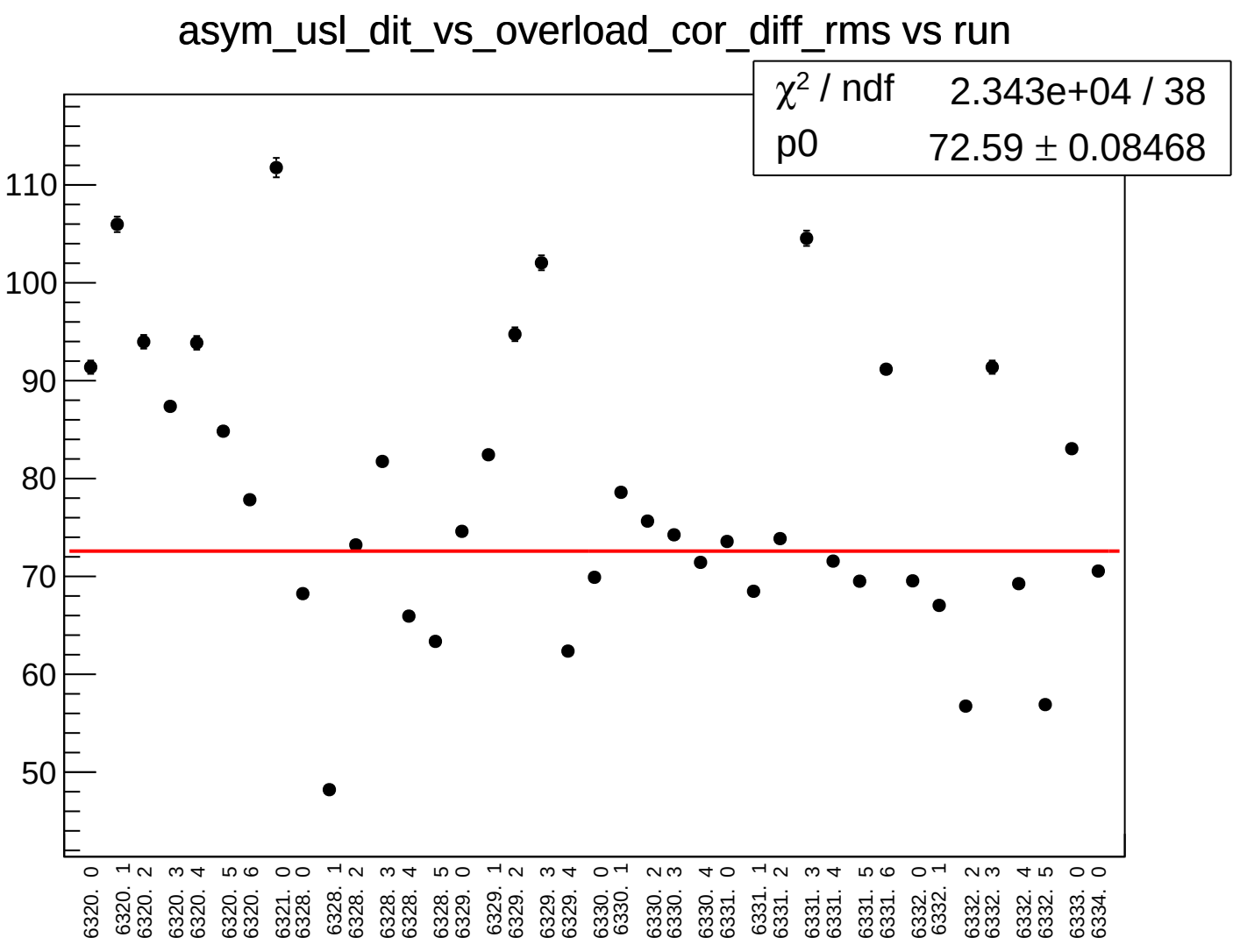

pull1D
Entries 39
Mean 0.05091
Std Dev 0.9637

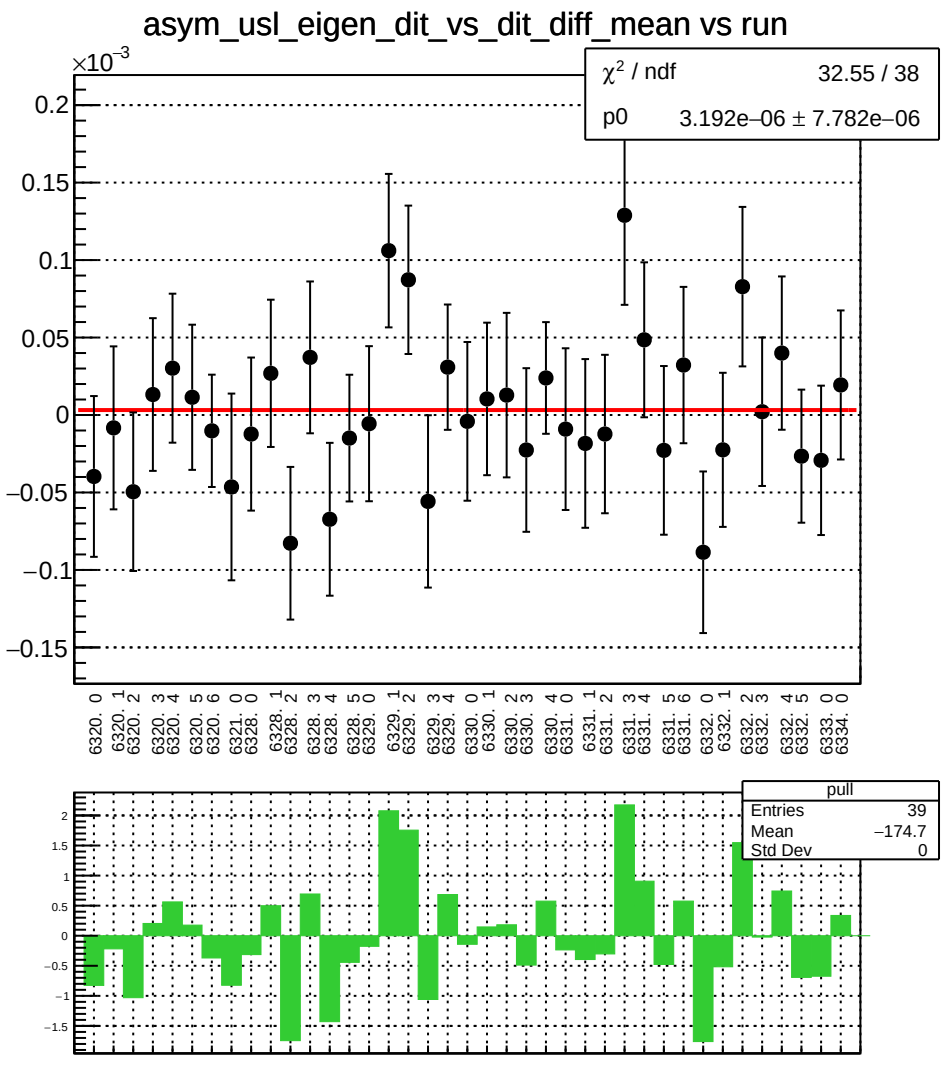

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 6.366e+04 / 38
p0 54.74 ± 0.06569
110
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

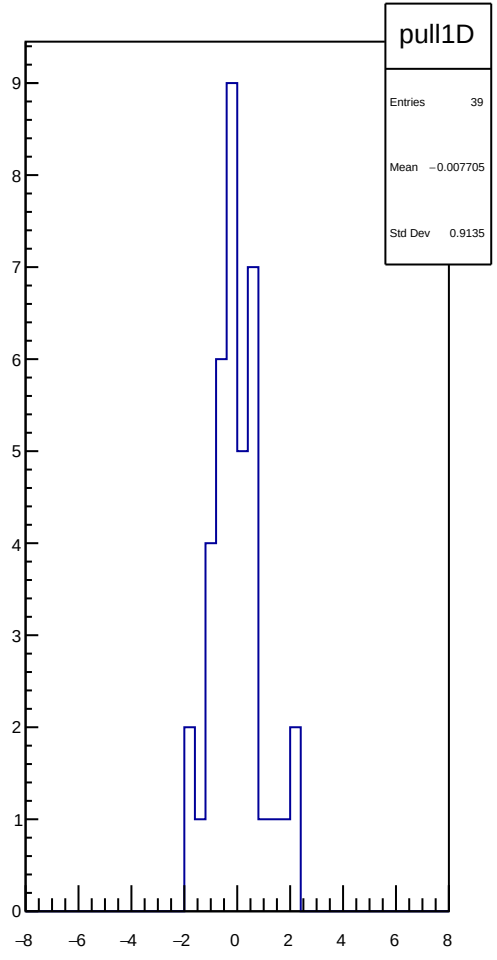

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.32 / 38
p0 0.0514 ± 0.0929
pull
Entries 39
Mean 13.59
Std Dev 17.59
pull1D
Entries 39
Mean 0.05091
Std Dev 0.9637

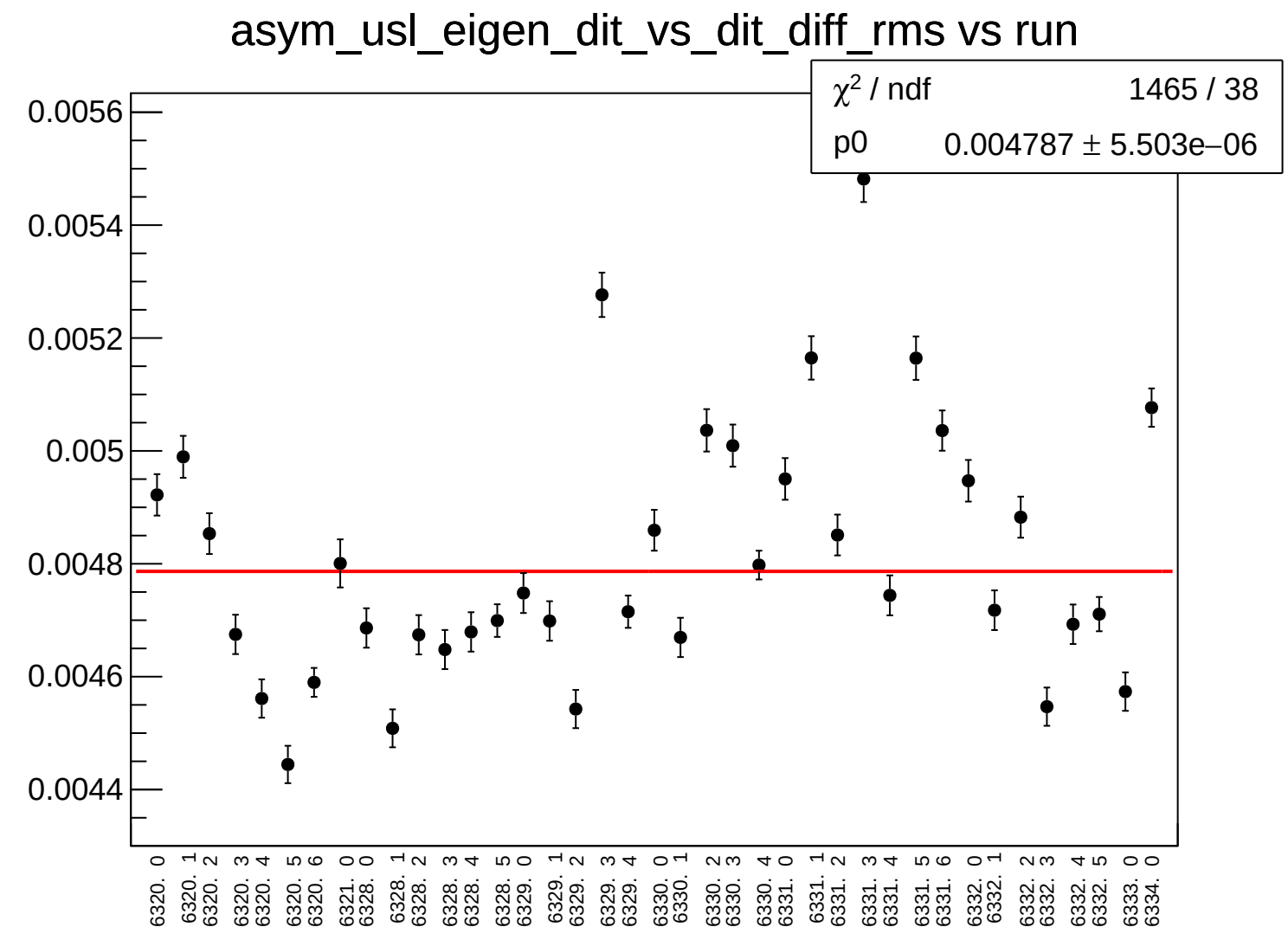

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.366e+04 / 38
p0 54.74 ± 0.06569
110
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

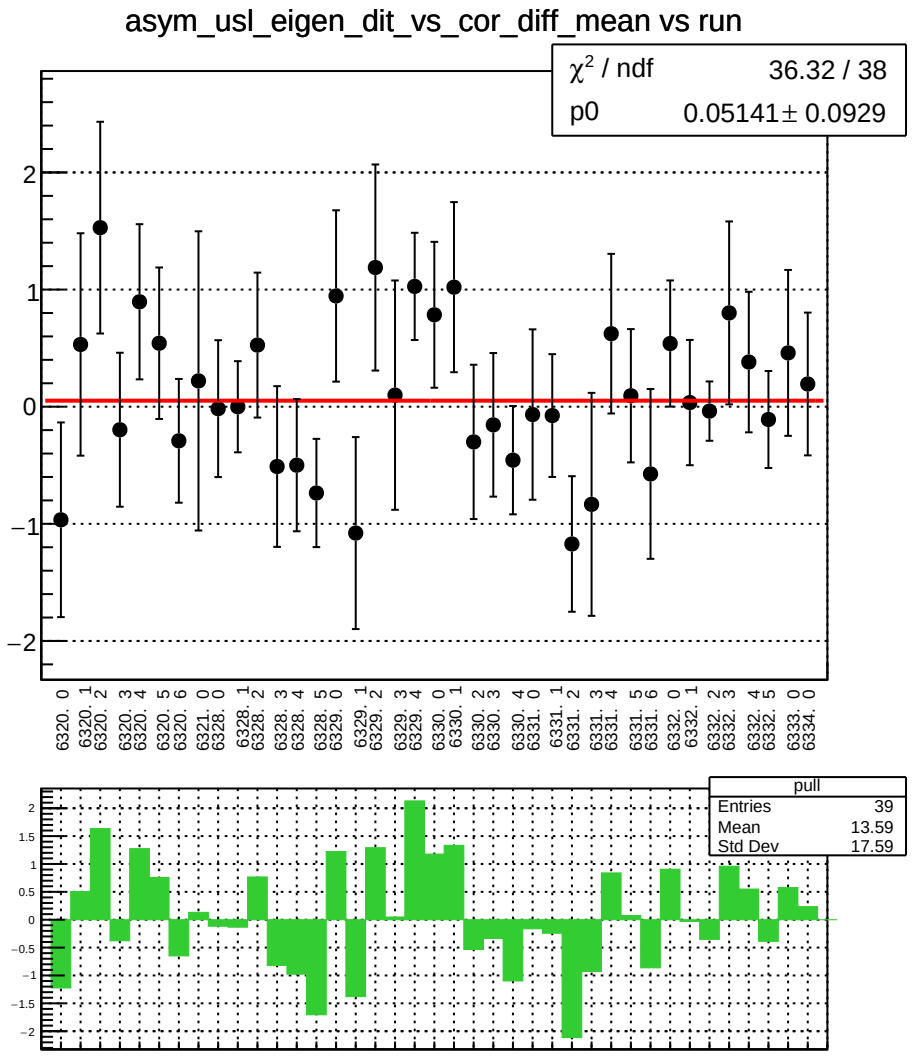

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.2 / 38
p0 0.08683 ± 0.1198
pull
Entries 39
Mean 0.4936
Std Dev 0
pull1D
Entries 39
Mean 0.03323
Std Dev 0.9629

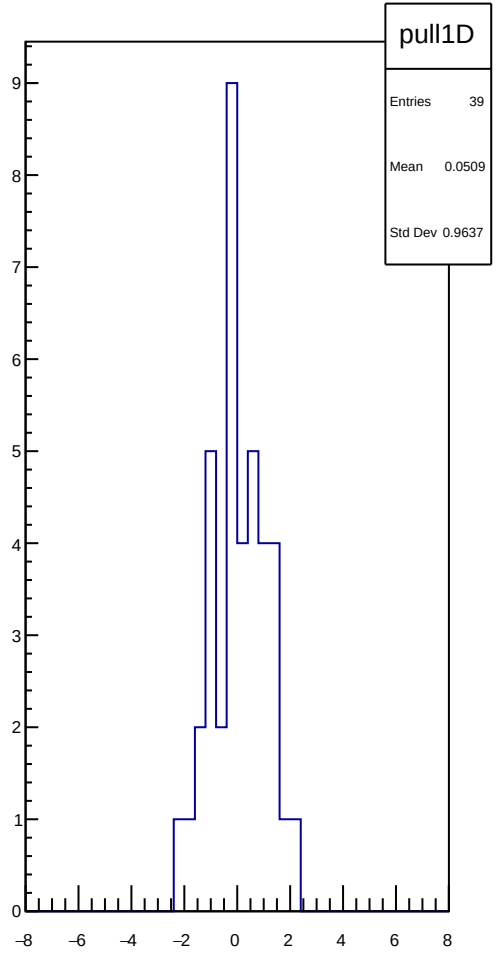

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 38
p0 72.59 ± 0.08468
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

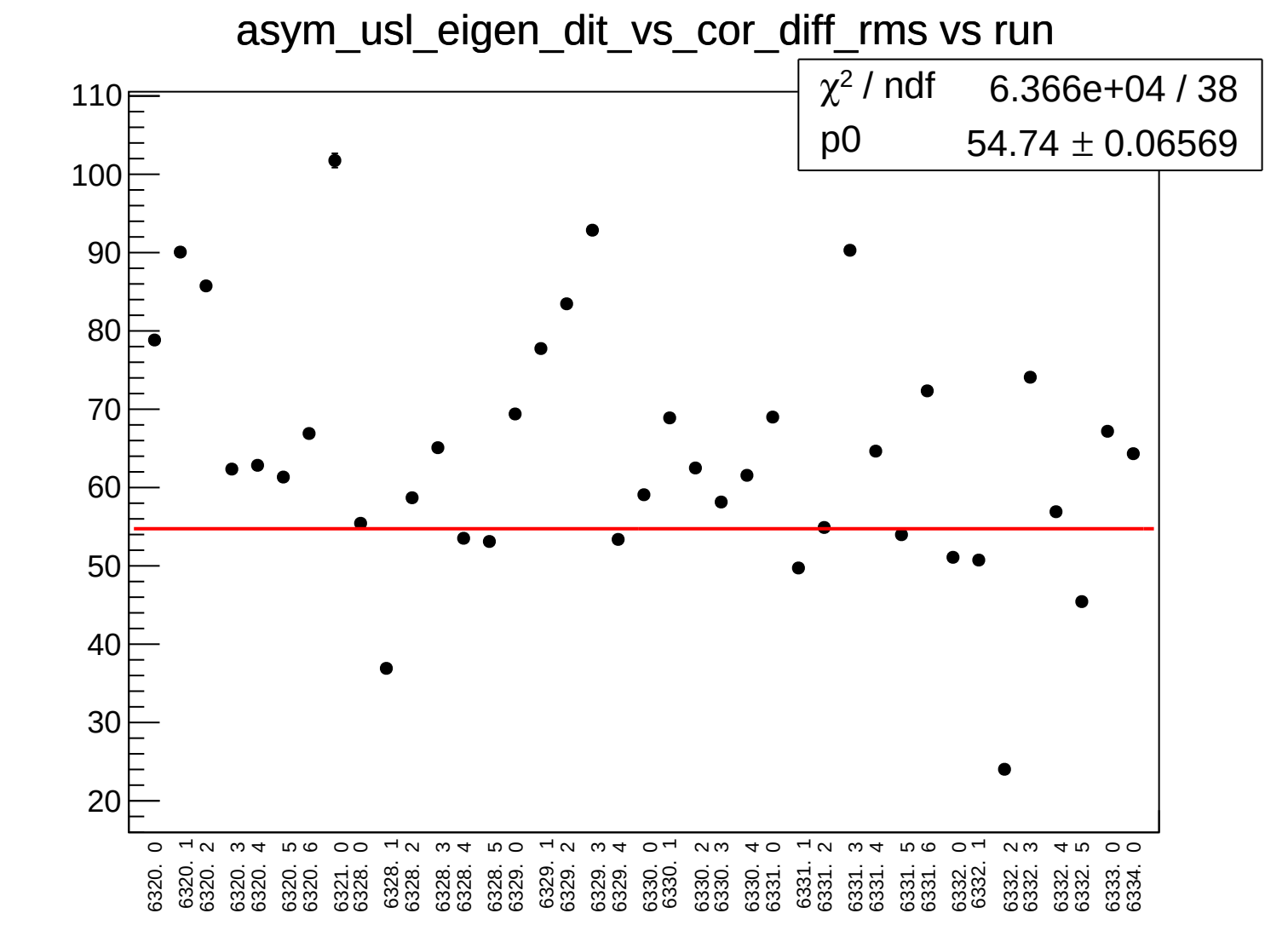

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.55 / 38
p0 3.192e−06 ± 7.782e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −174.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

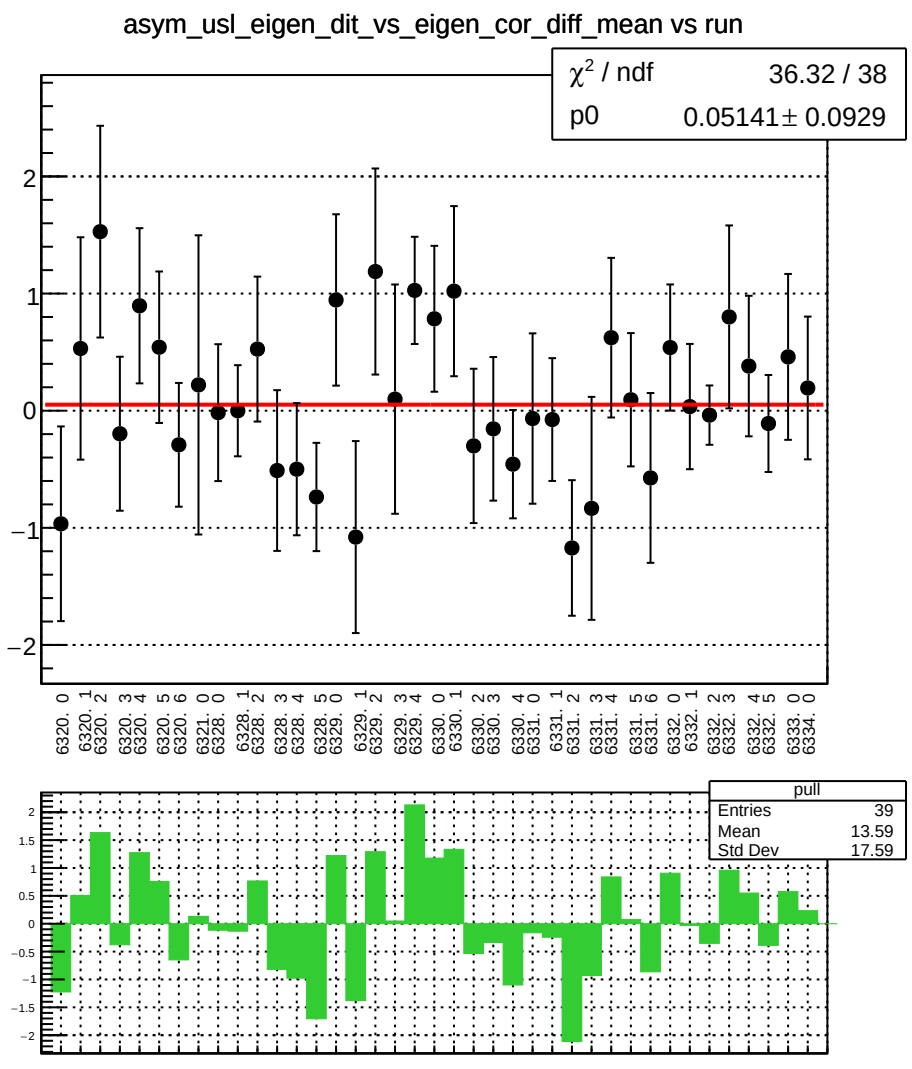

pull1D
Entries 39
Mean −0.007705
Std Dev 0.9135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

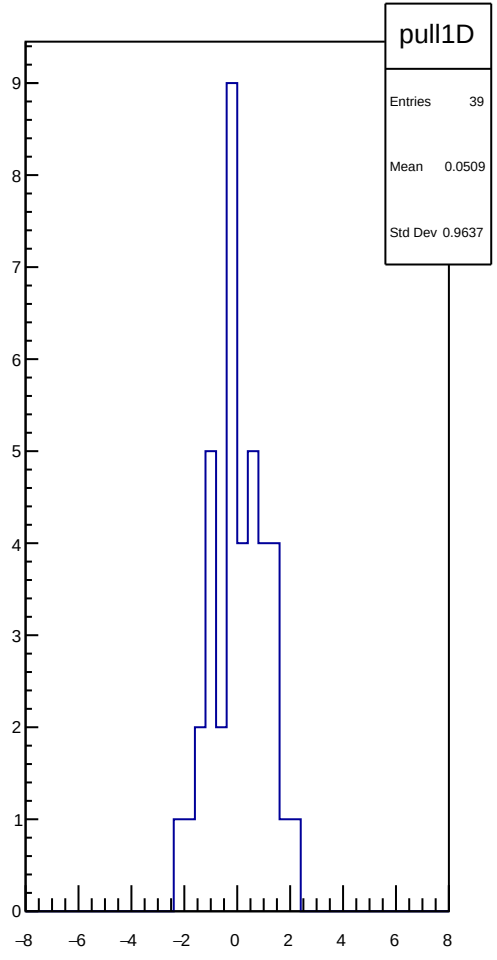

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1465 / 38
p0 0.004787 ± 5.503e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

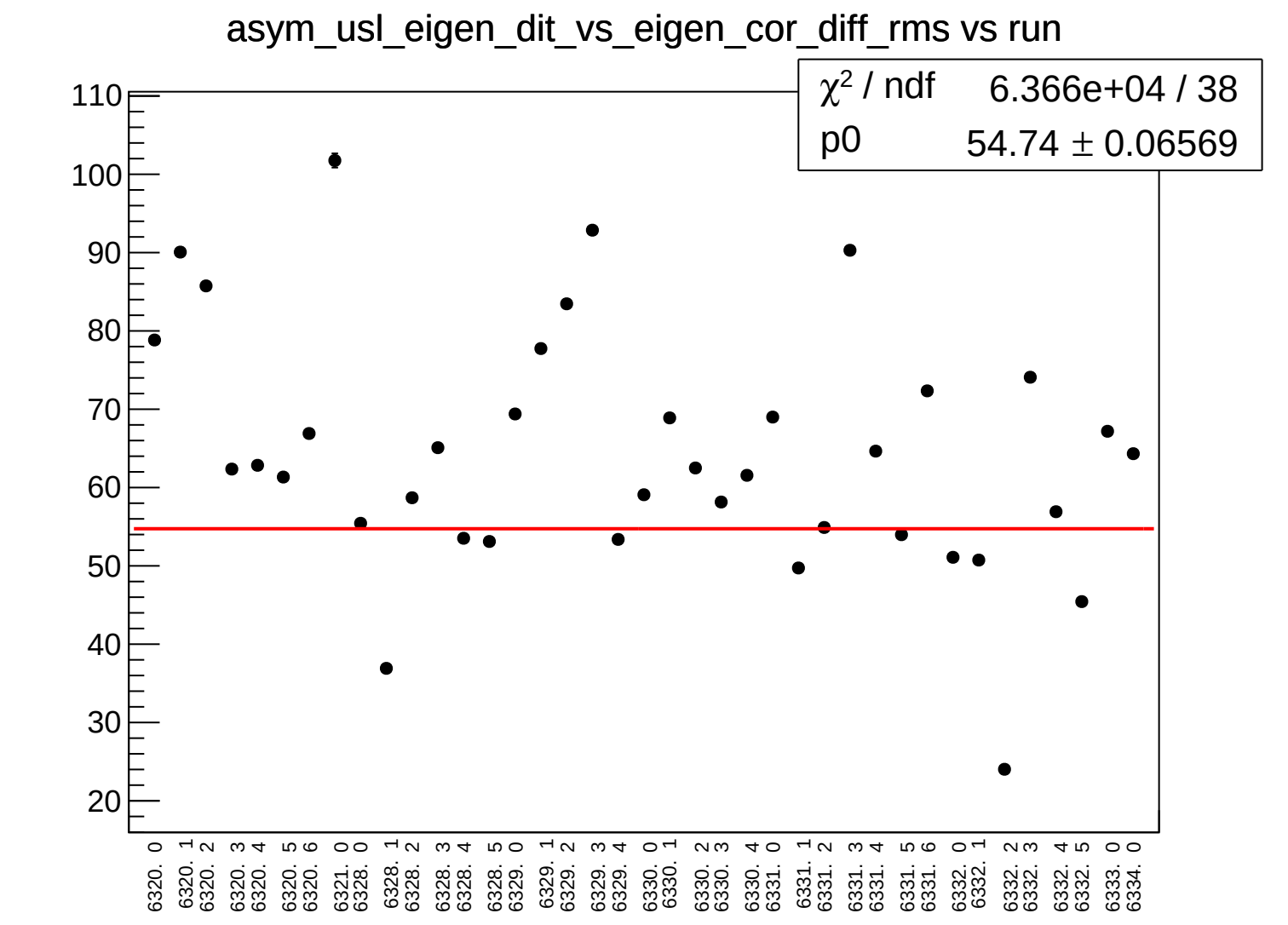

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.32 / 38
p0 0.05141 ± 0.0929
pull
Entries 39
Mean 13.59
Std Dev 17.59

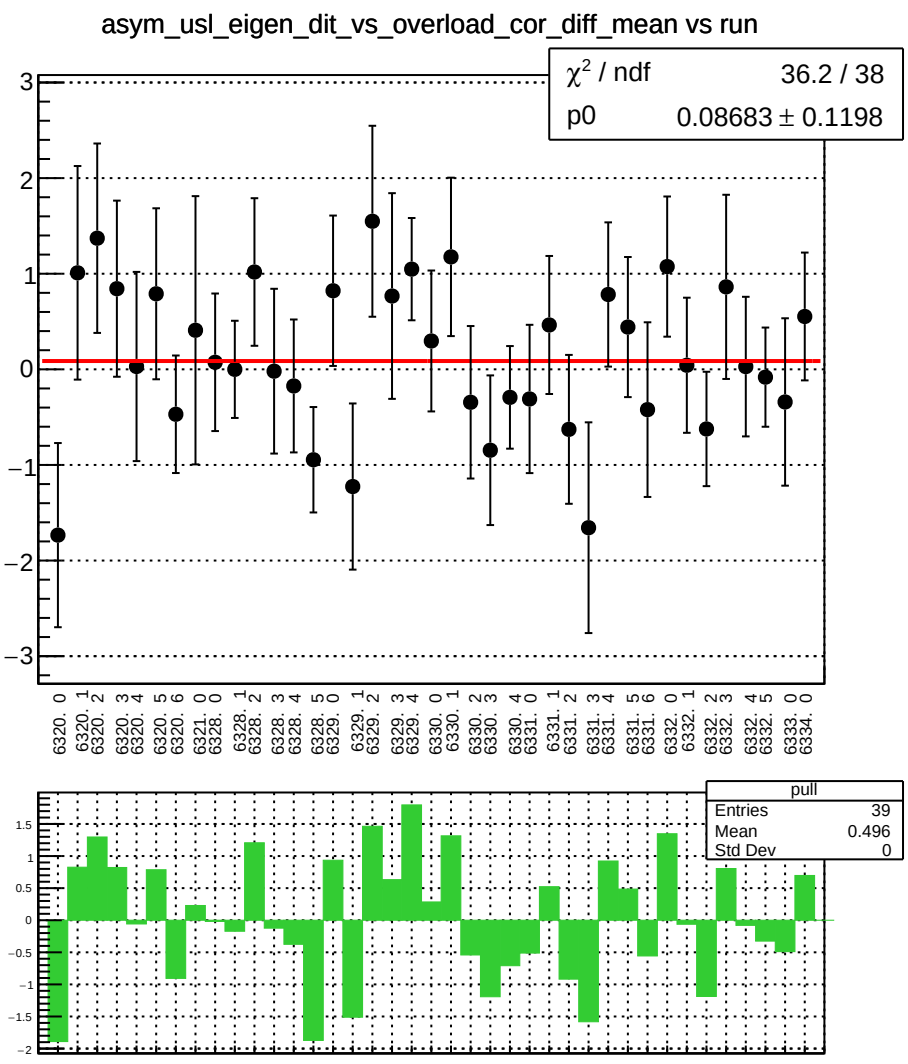

pull1D
Entries 39
Mean 0.0509
Std Dev 0.9637

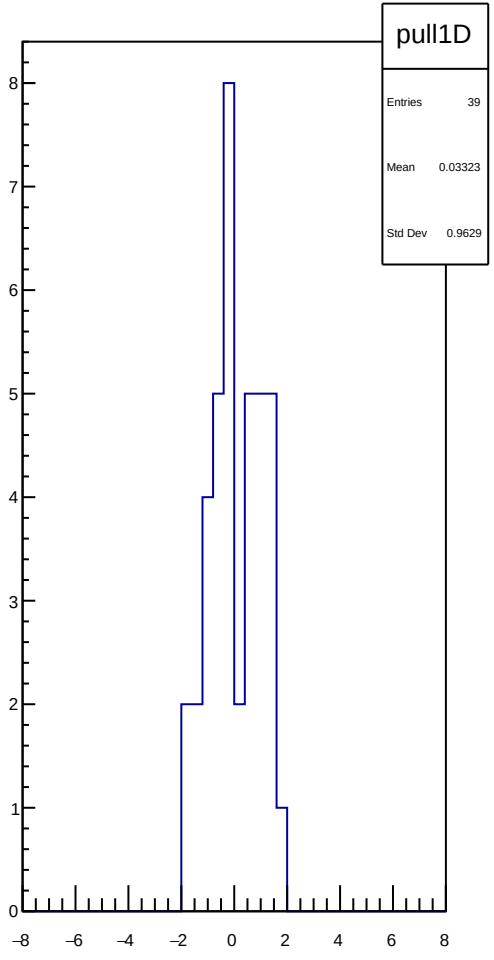

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.366e+04 / 38
p0 54.74 ± 0.06569
110
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

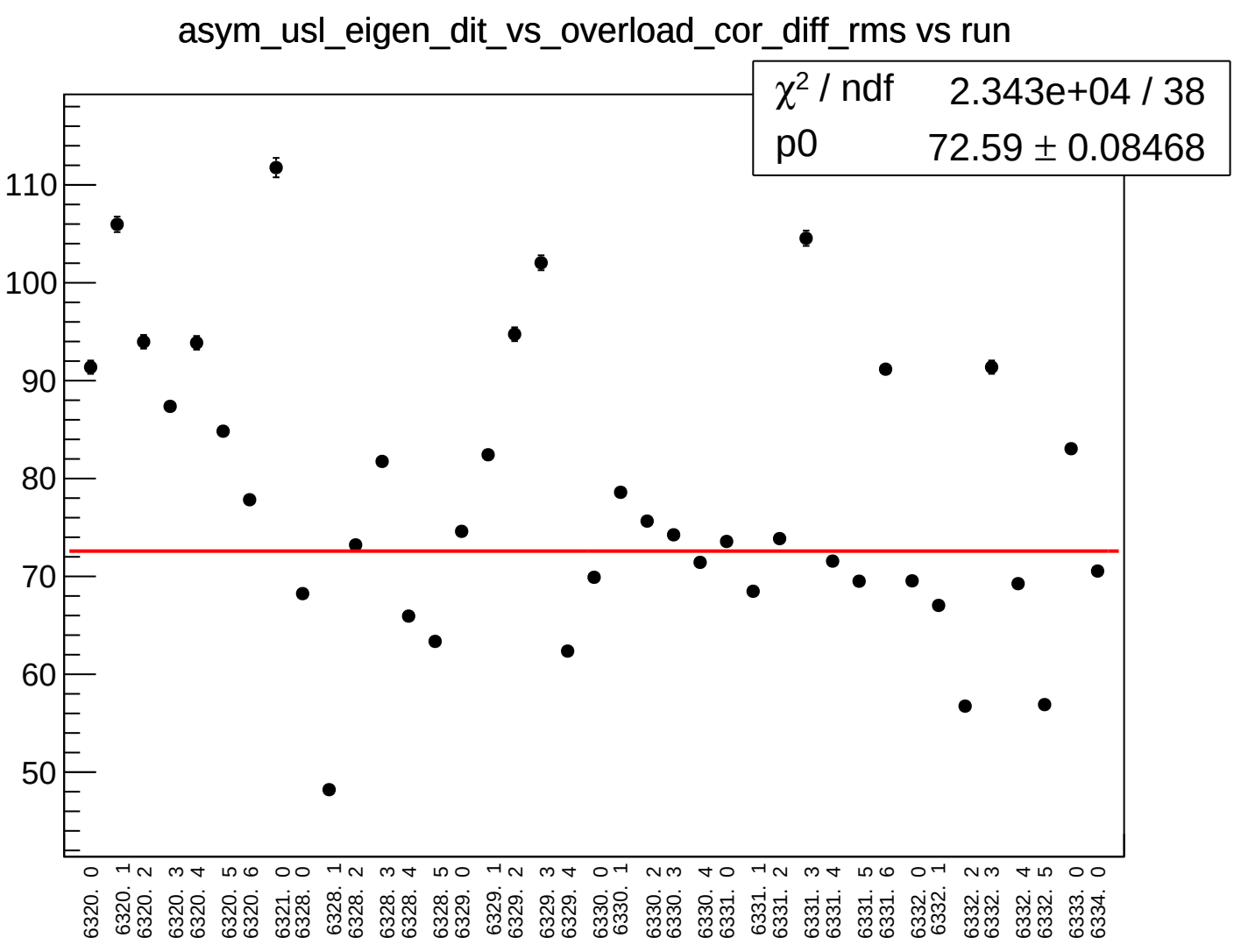

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.32 / 38
p0 0.05141 ± 0.0929
pull
Entries 39
Mean 13.59
Std Dev 17.59

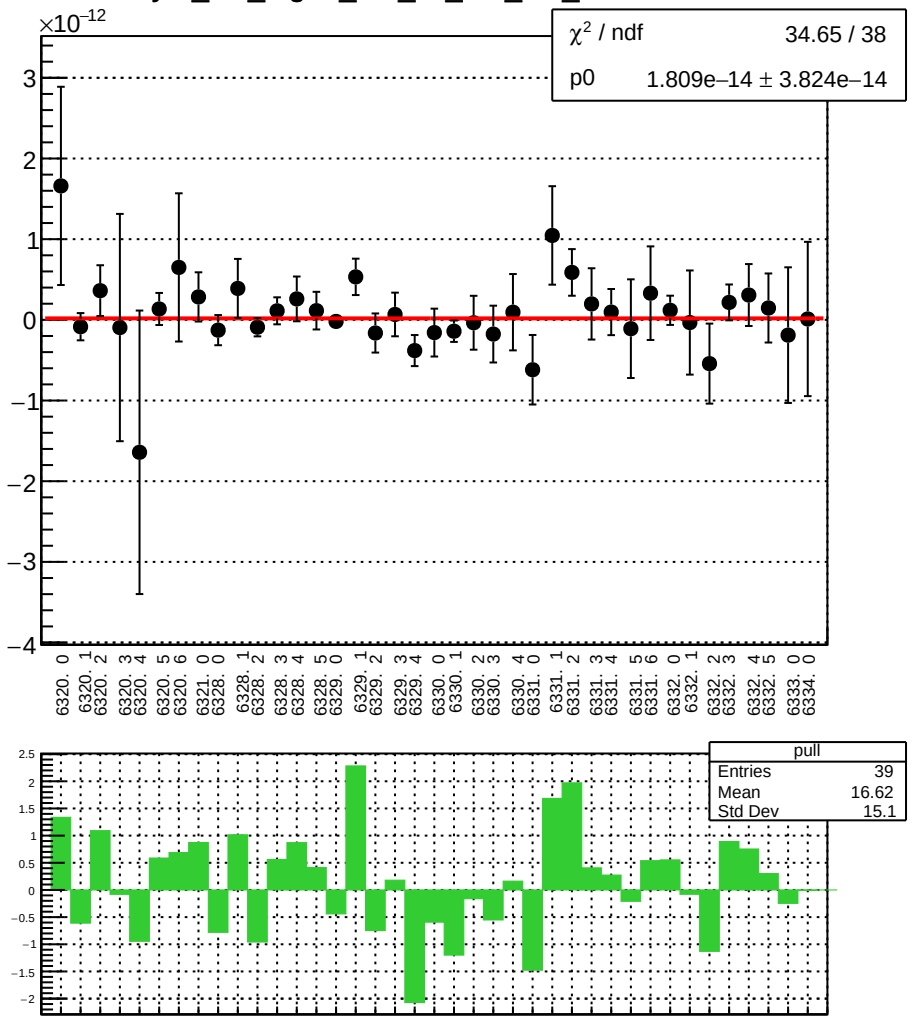

pull1D
Entries 39
Mean 0.0509
Std Dev 0.9637

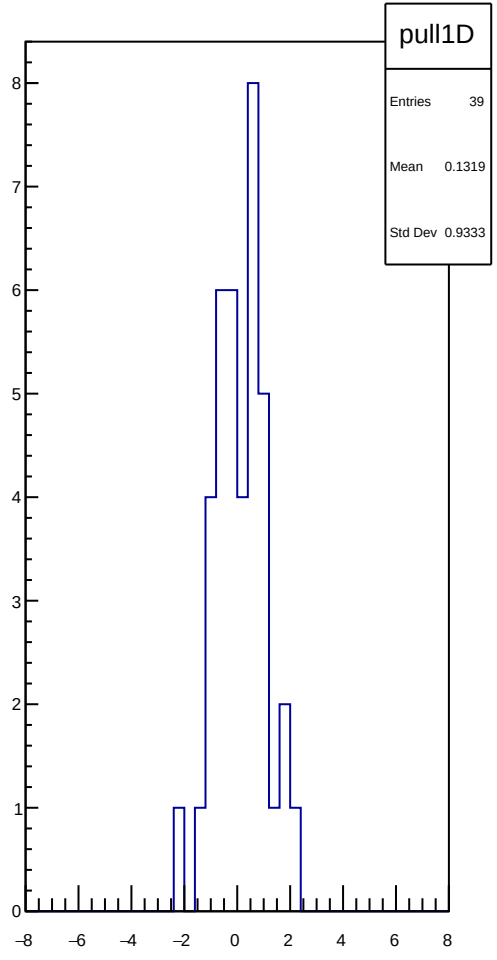

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.366e+04 / 38
p0 54.74 ± 0.06569
110
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

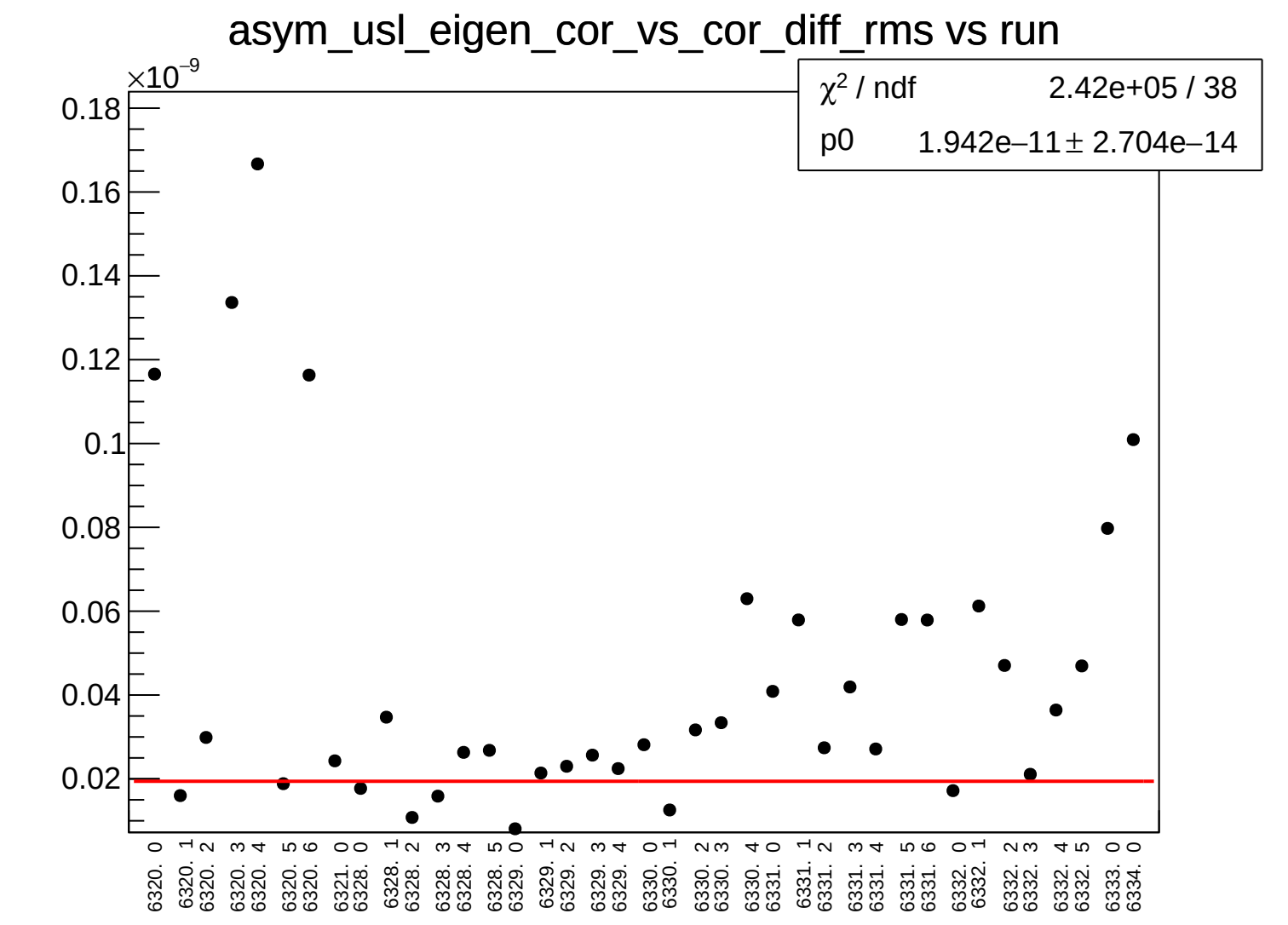

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.2 / 38
p0 0.08683 ± 0.1198
pull
Entries 39
Mean 0.496
Std Dev 0

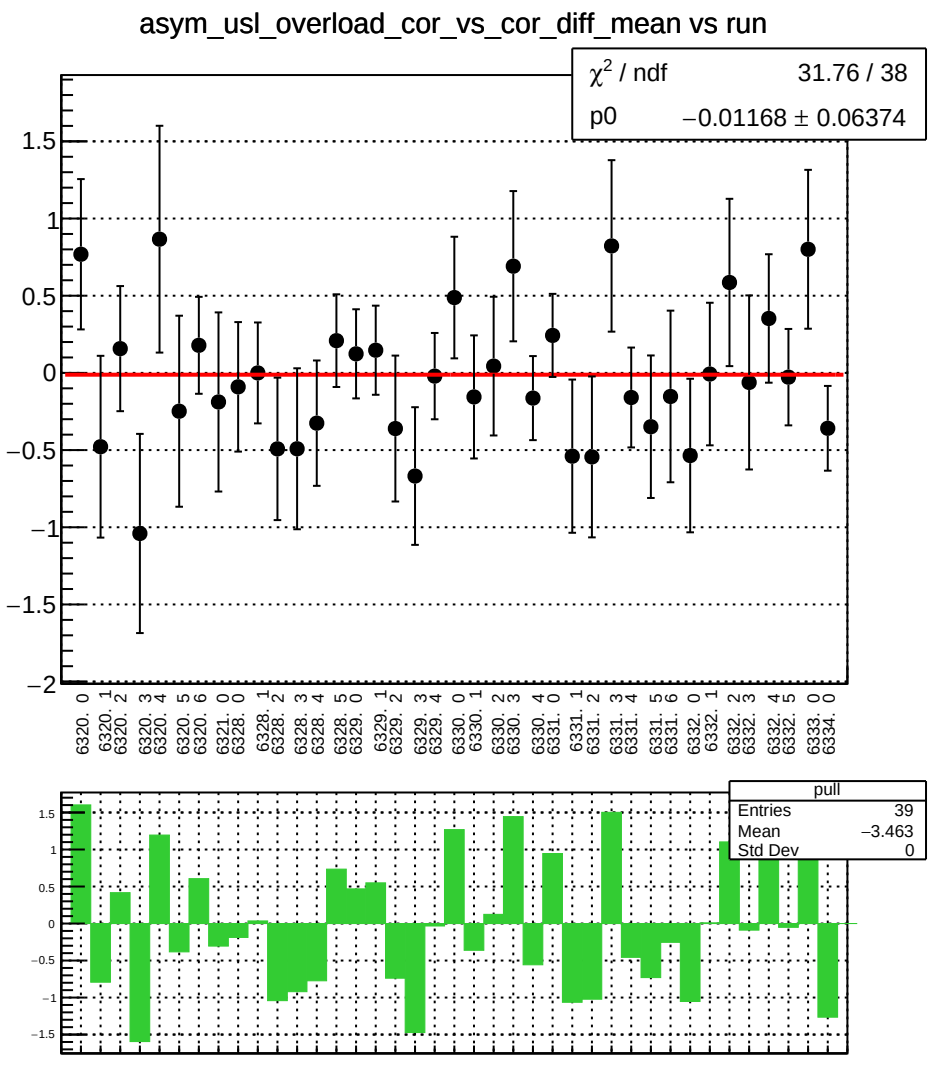

pull1D
Entries 39
Mean 0.03323
Std Dev 0.9629

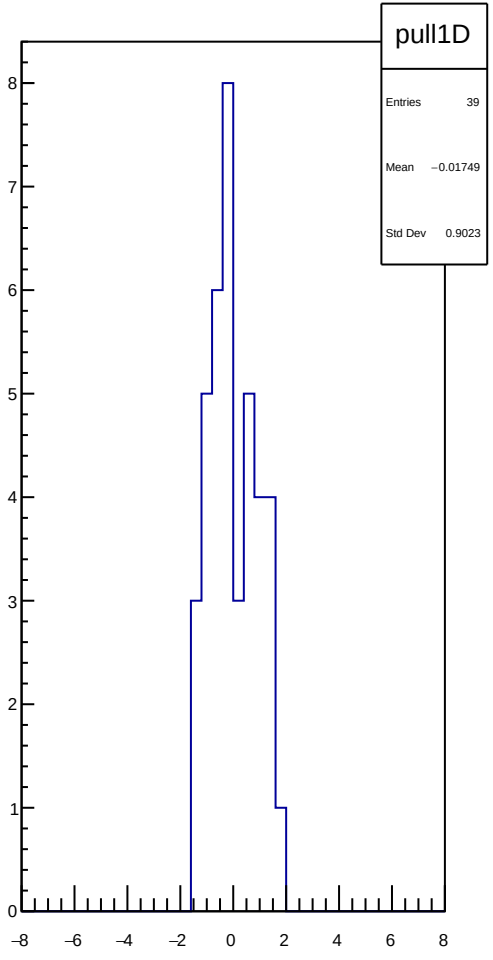

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 38
p0 72.59 ± 0.08468
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

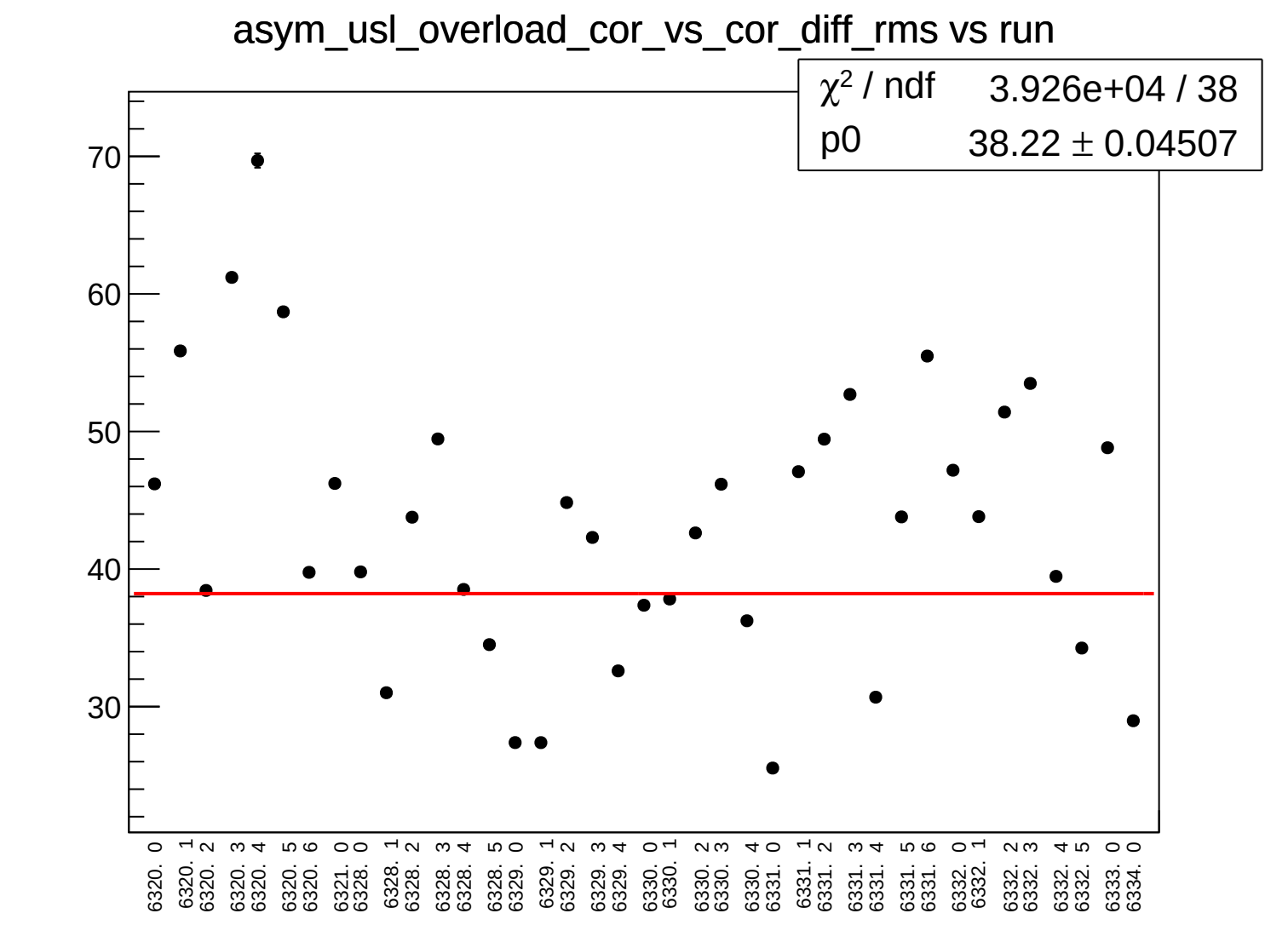

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 34.65 / 38
p0 1.809e−14 ± 3.824e−14
pull
Entries 39
Mean 16.62
Std Dev 15.1

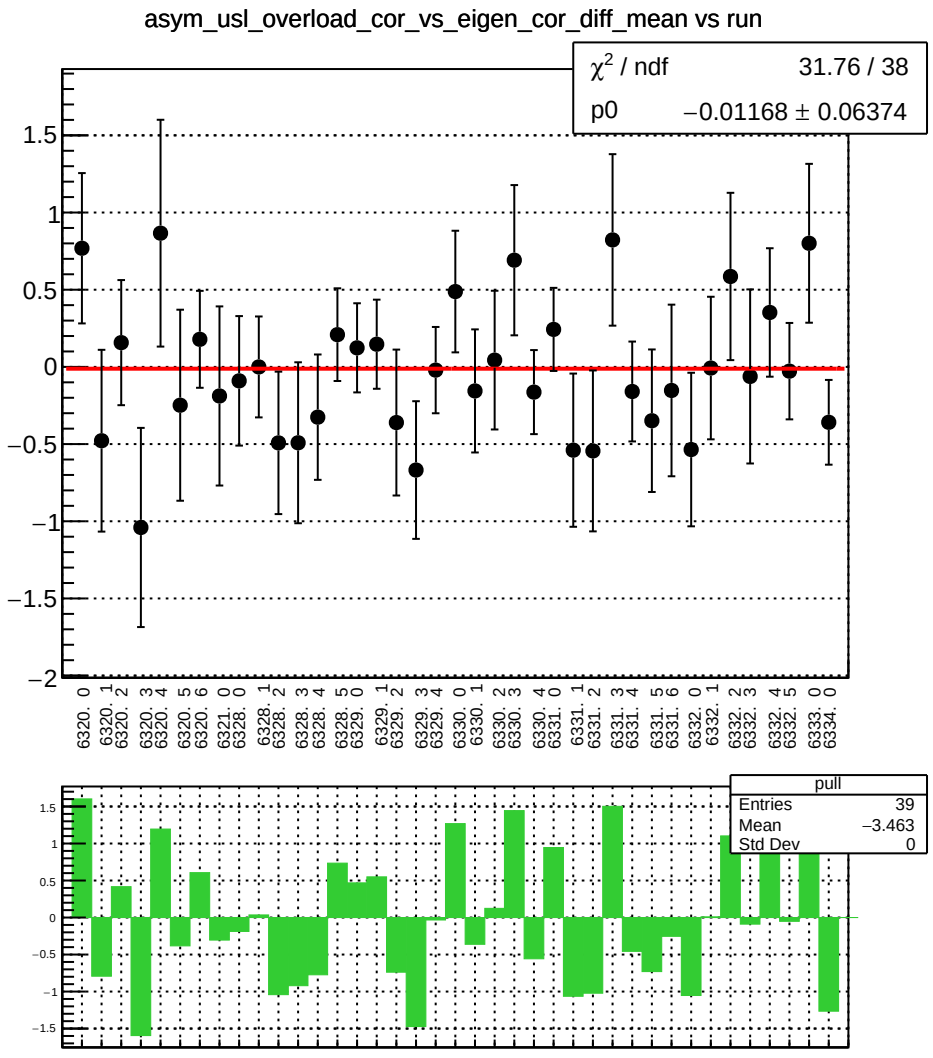

pull1D
Entries 39
Mean 0.1319
Std Dev 0.9333

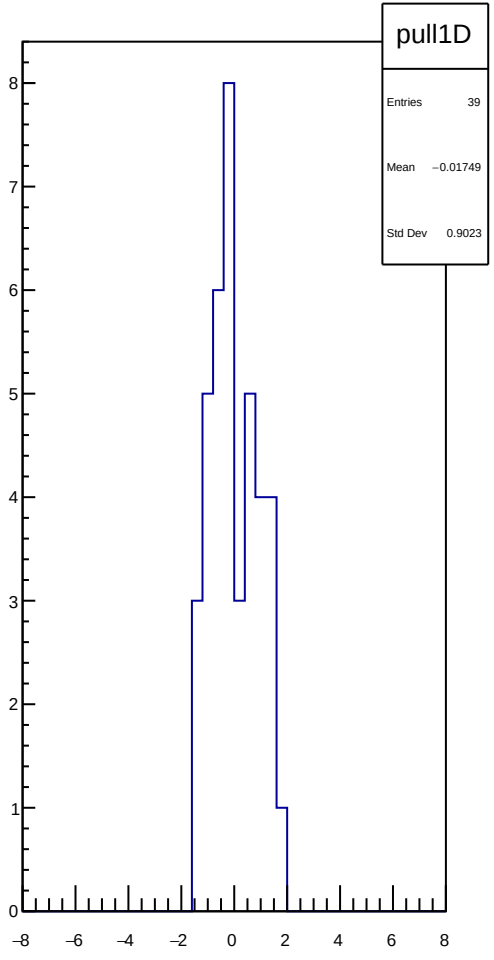

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.42e+05 / 38
p0 1.942e−11 ± 2.704e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

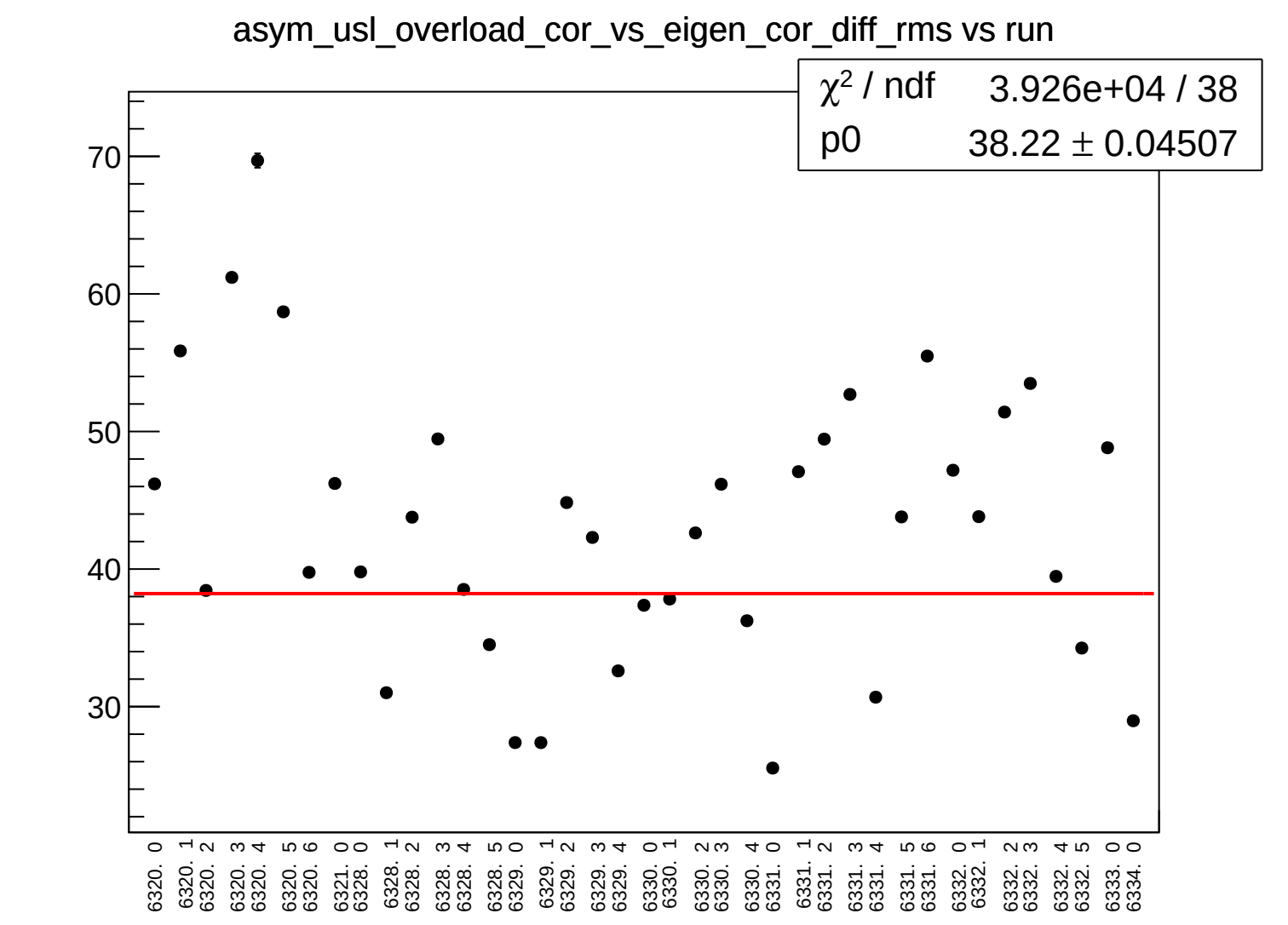

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 31.76 / 38
p0 −0.01168 ± 0.06374
pull
Entries 39
Mean −3.463
Std Dev 0

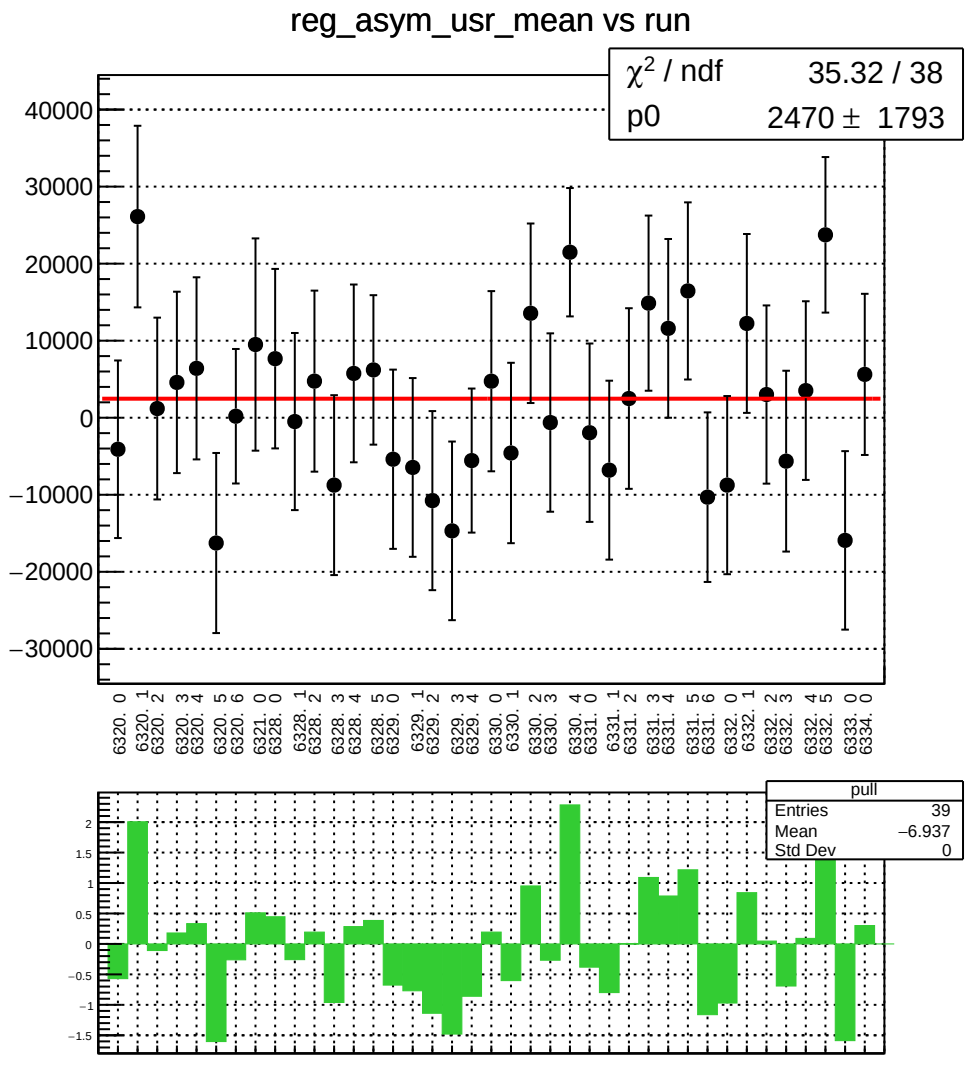

pull1D
Entries 39
Mean −0.01749
Std Dev 0.9023

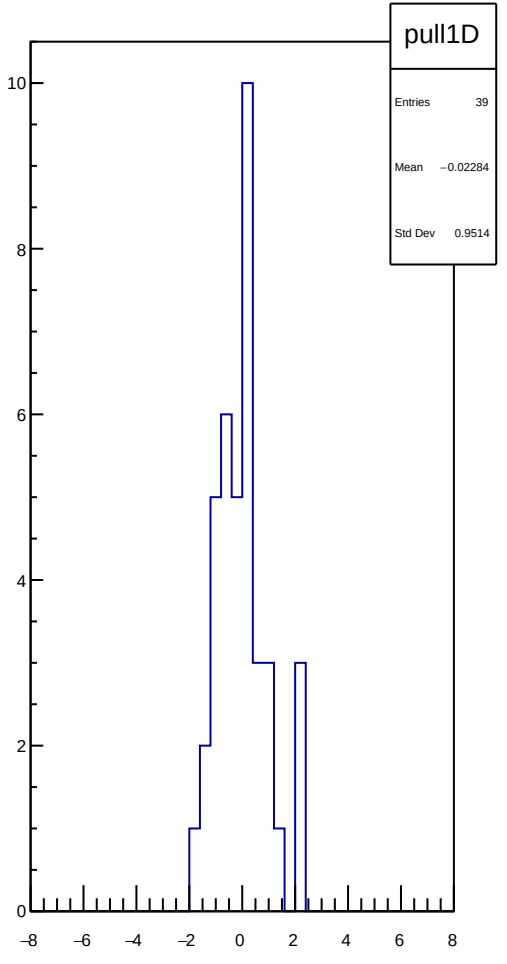

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.926e+04 / 38
p0 38.22 ± 0.04507
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

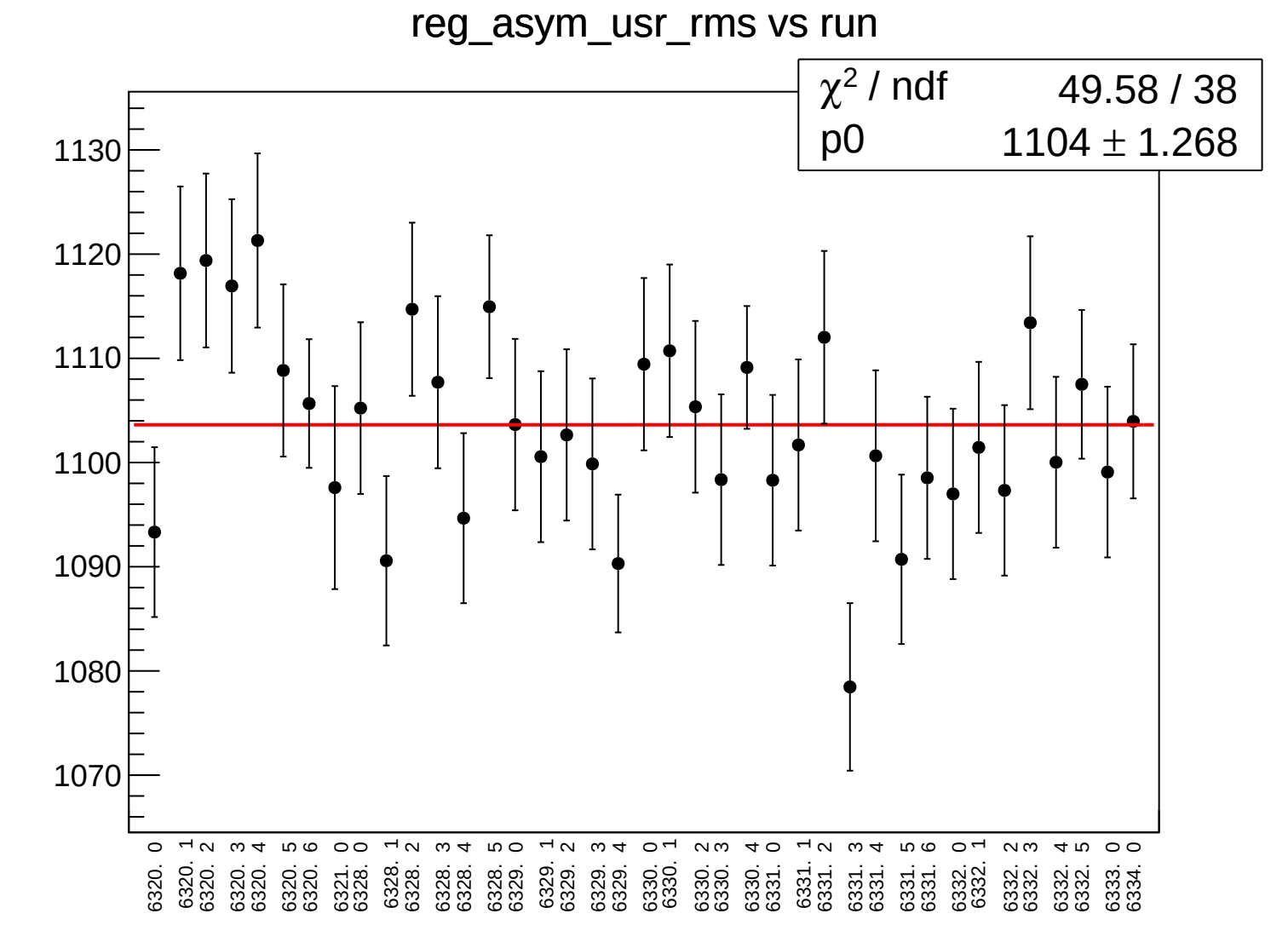

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.76 / 38
p0 −0.01168 ± 0.06374
pull
Entries 39
Mean −3.463
Std Dev 0

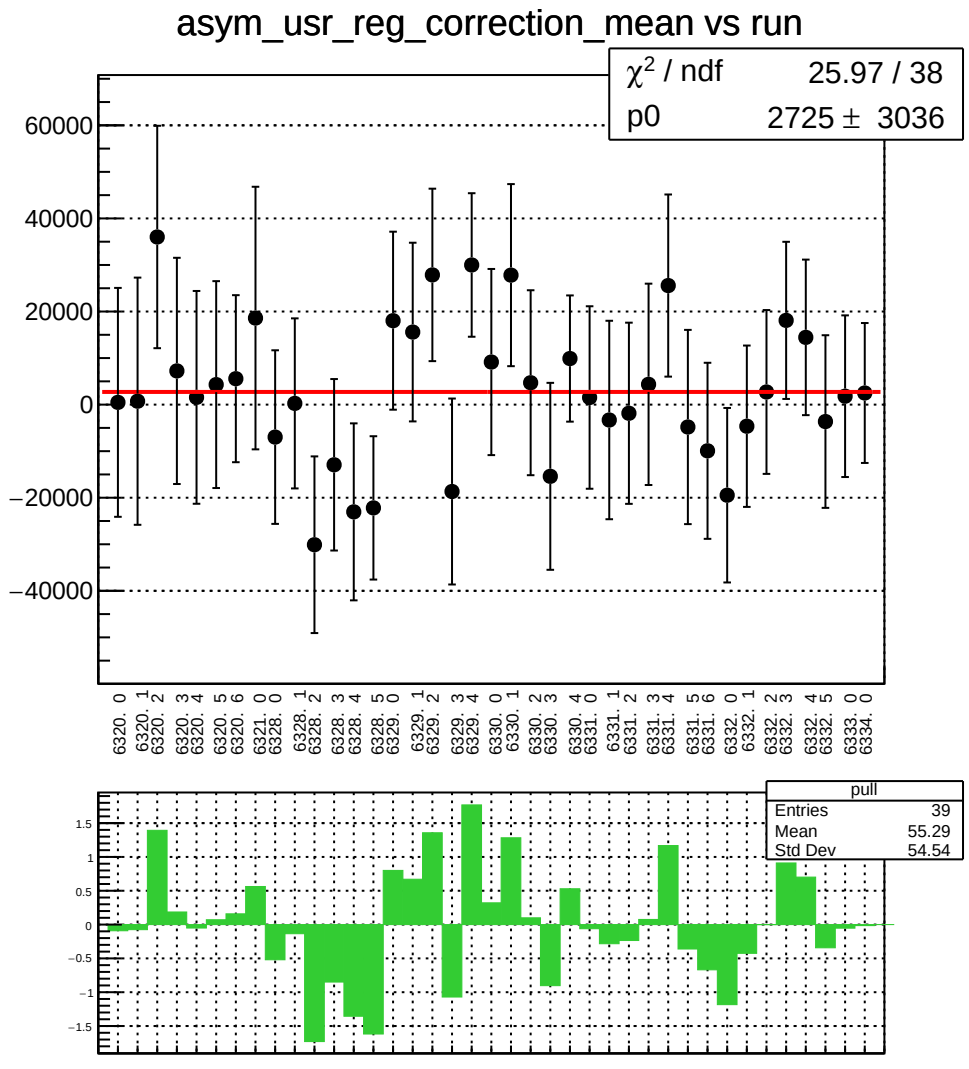

pull1D
Entries 39
Mean −0.01749
Std Dev 0.9023

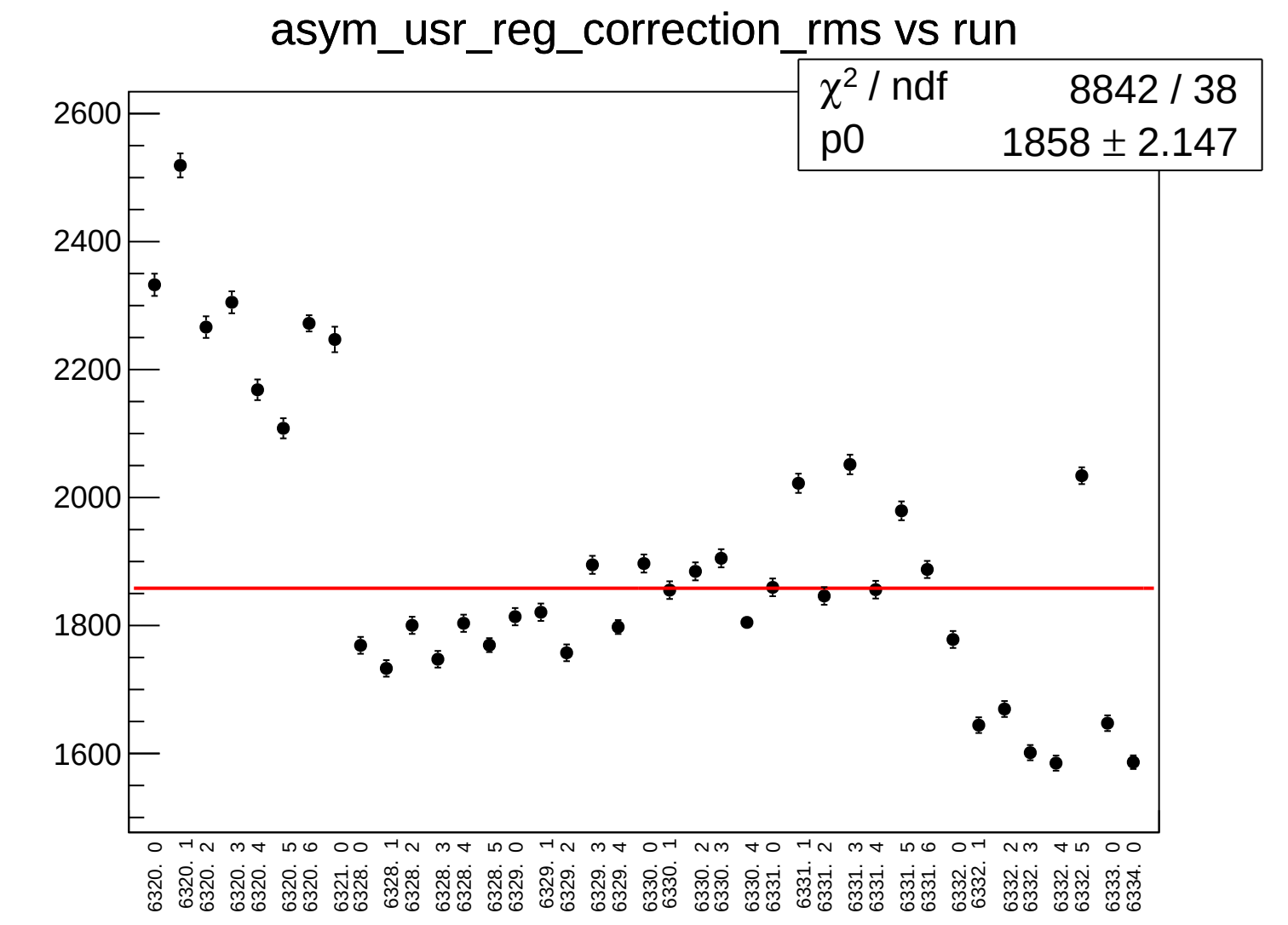

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.926e+04 / 38
p0 38.22 ± 0.04507
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

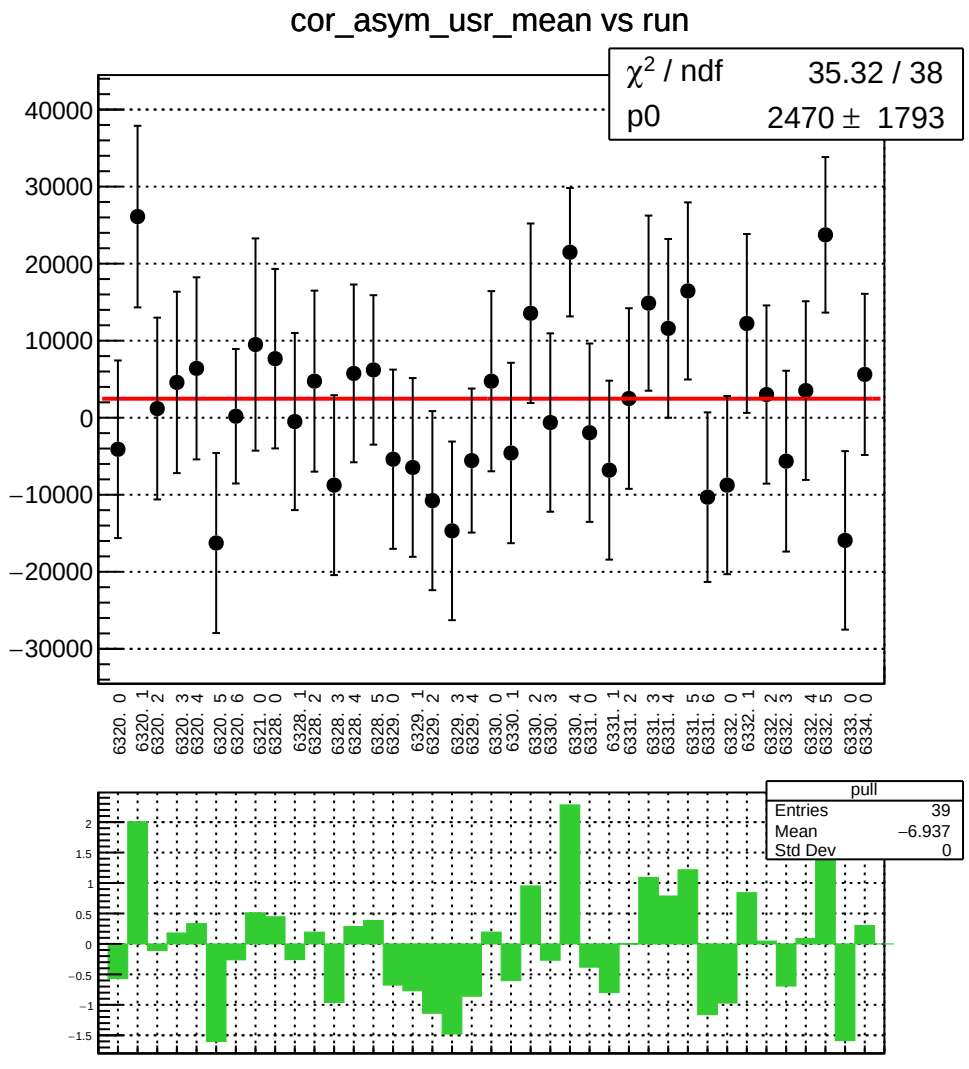

reg_asym_usr_mean vs run
χ² / ndf 35.32 / 38
p0 2470 ± 1793
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.937
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

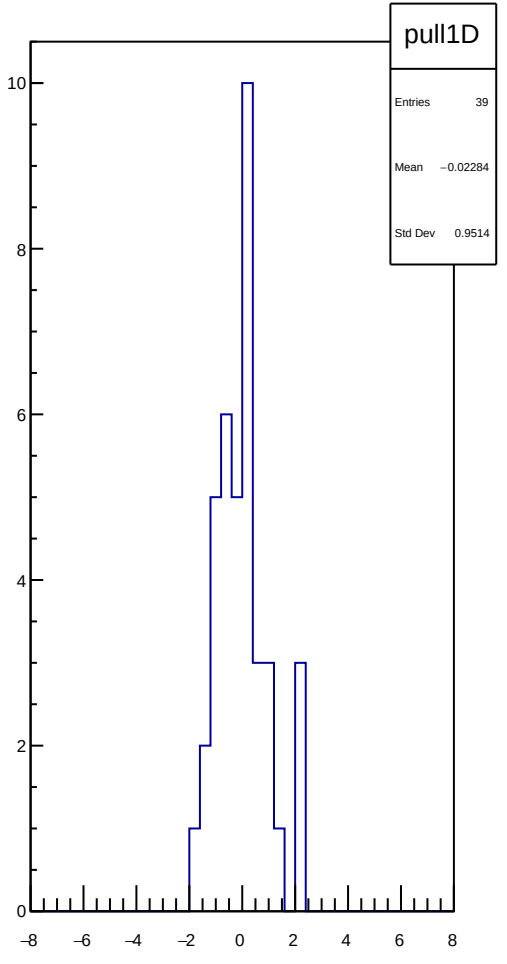

pull1D
Entries 39
Mean −0.02284
Std Dev 0.9514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

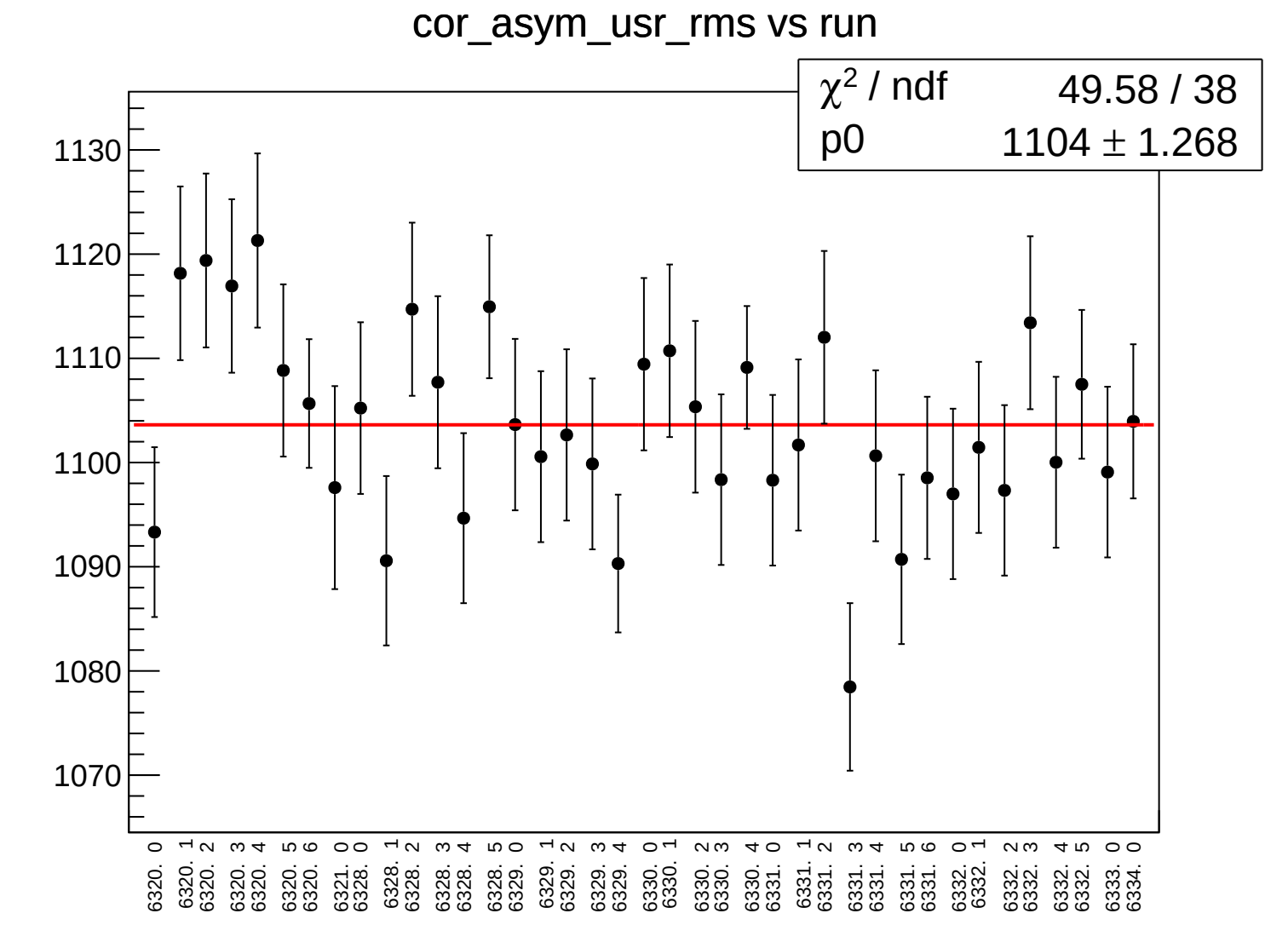

reg_asym_usr_rms vs run
χ² / ndf 49.58 / 38
p0 1104 ± 1.268
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

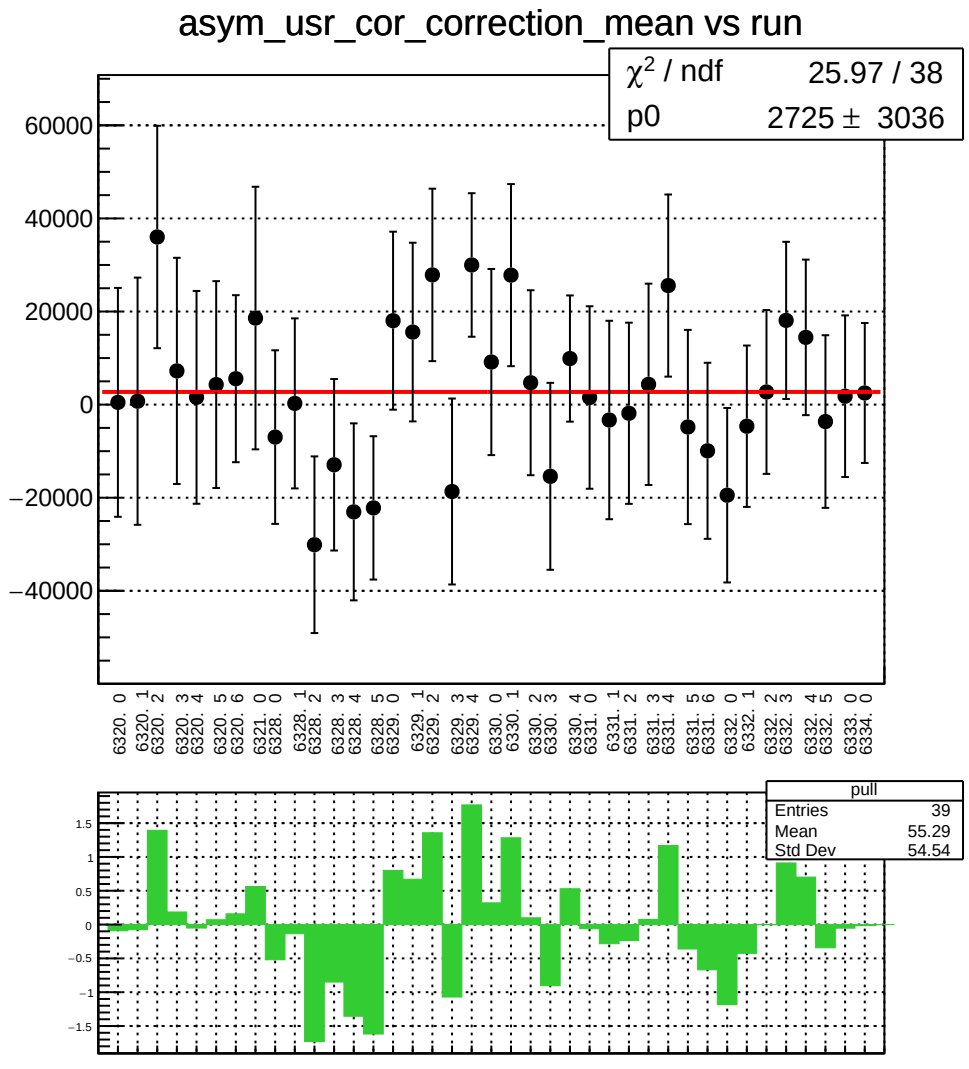

asym_usr_reg_correction_mean vs run
χ² / ndf 25.97 / 38
p0 2725 ± 3036
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.29
Std Dev 54.54
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0007833
Std Dev 0.816
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

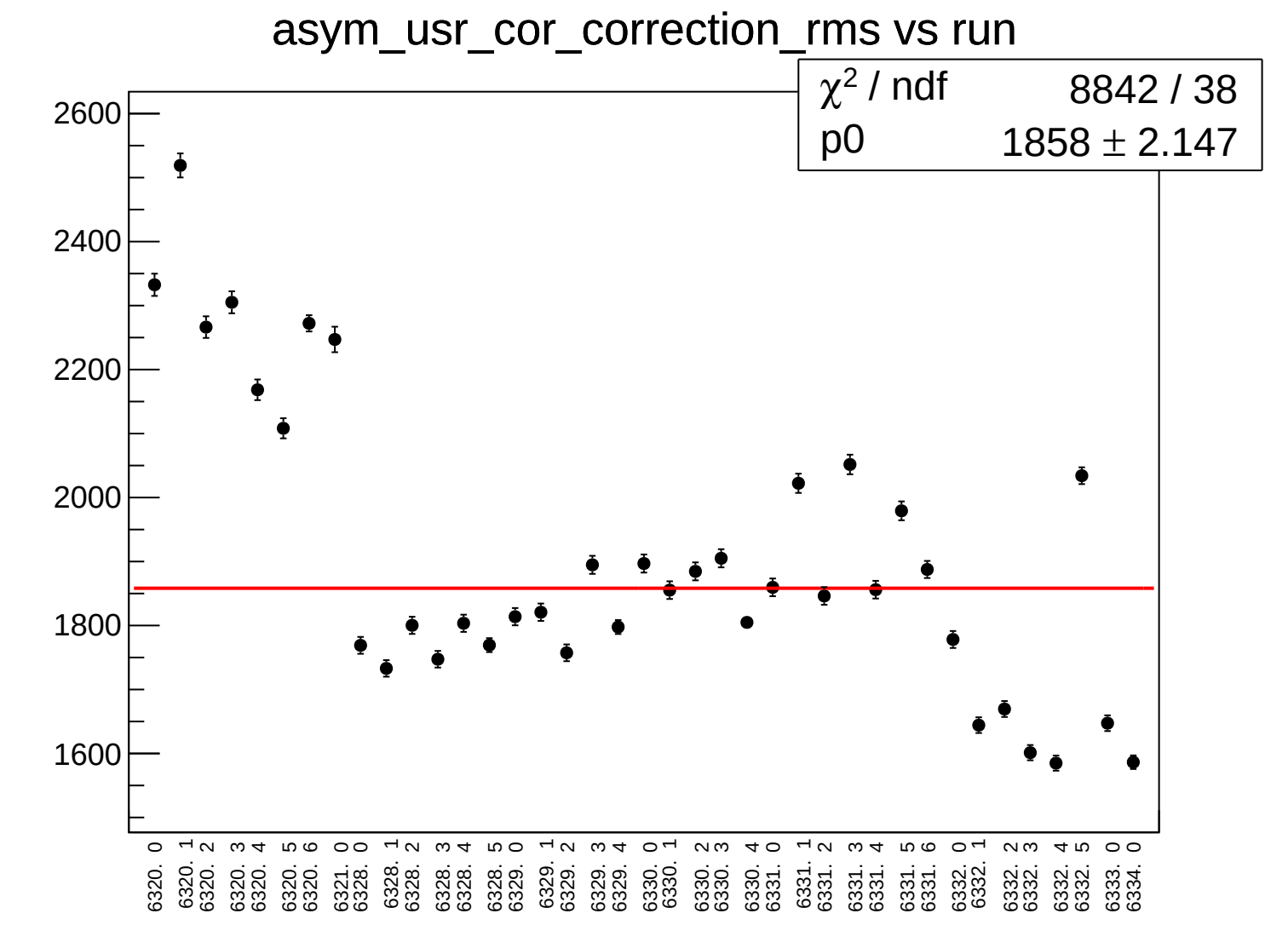

asym_usr_reg_correction_rms vs run
χ² / ndf 8842 / 38
p0 1858 ± 2.147
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

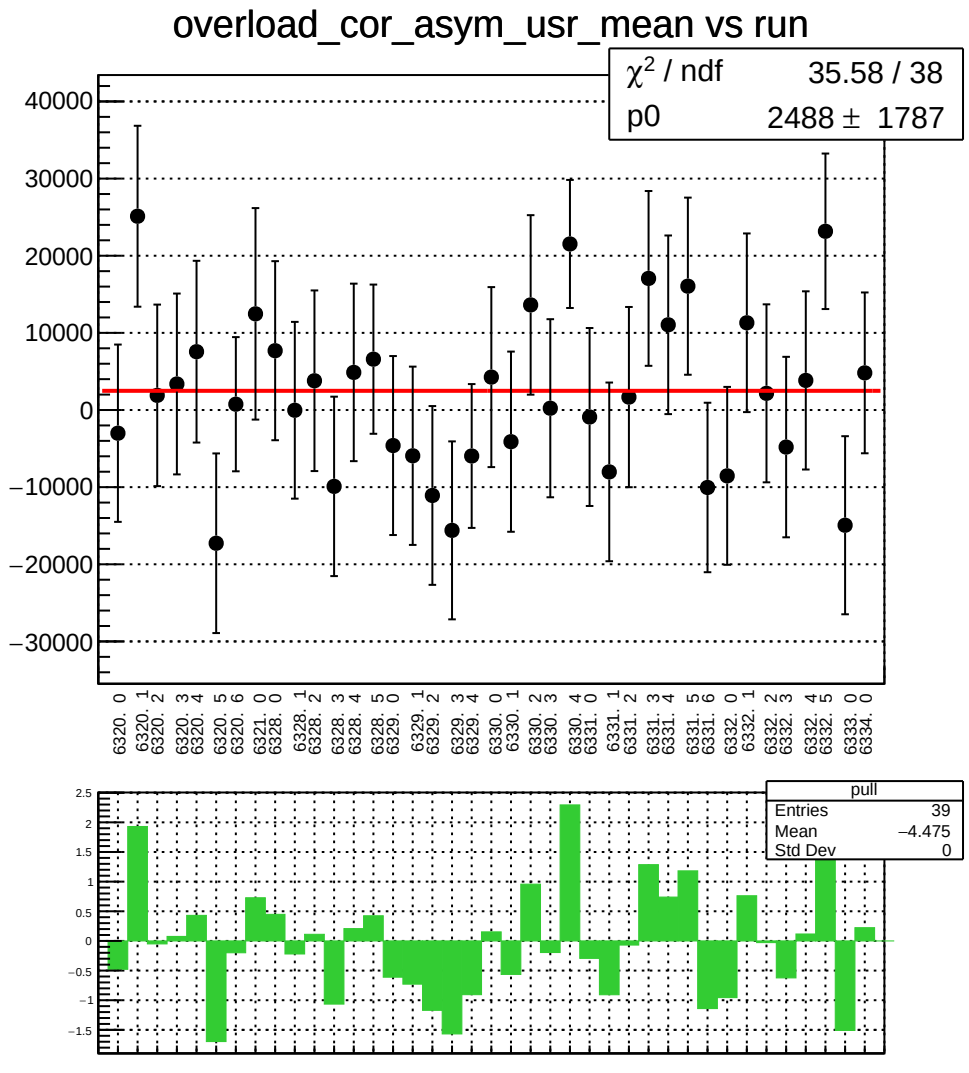

cor_asym_usr_mean vs run
χ² / ndf 35.32 / 38
p0 2470 ± 1793
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.937
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

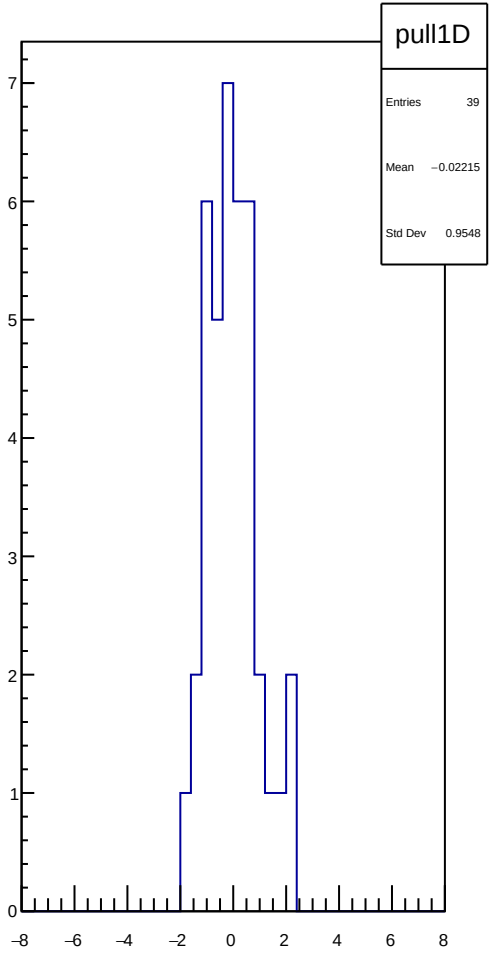

pull1D
Entries 39
Mean −0.02284
Std Dev 0.9514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

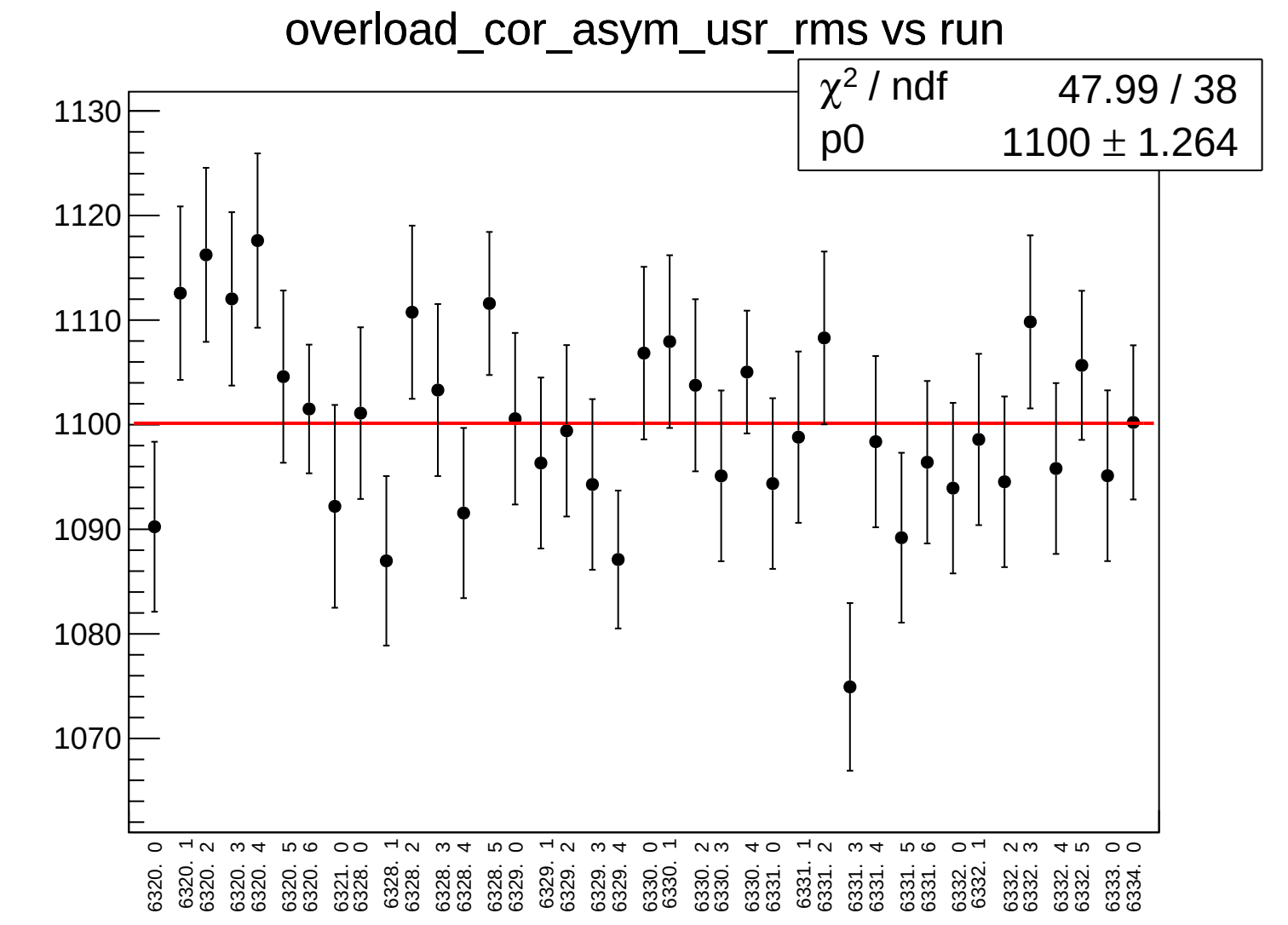

cor_asym_usr_rms vs run
χ² / ndf 49.58 / 38
p0 1104 ± 1.268
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

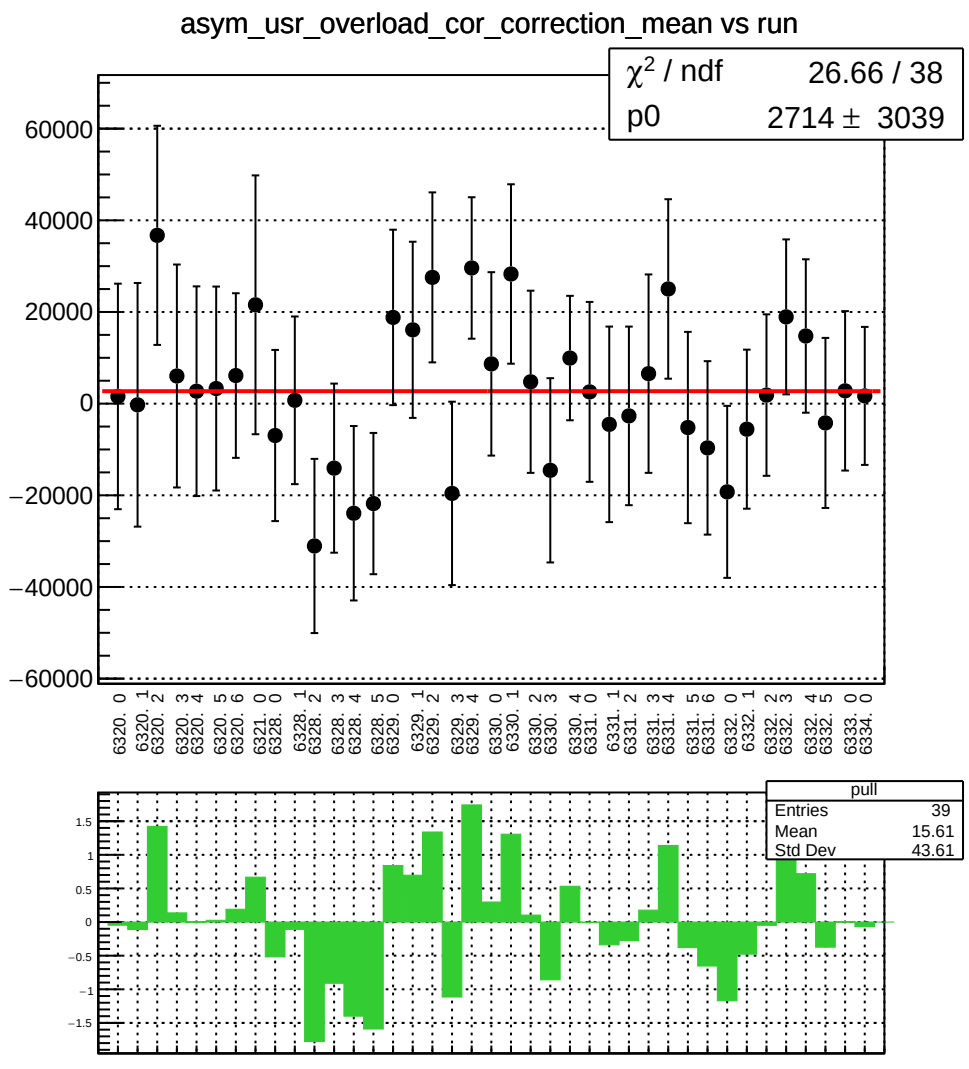

asym_usr_cor_correction_mean vs run
χ² / ndf 25.97 / 38
p0 2725 ± 3036
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.29
Std Dev 54.54
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0007833
Std Dev 0.816
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

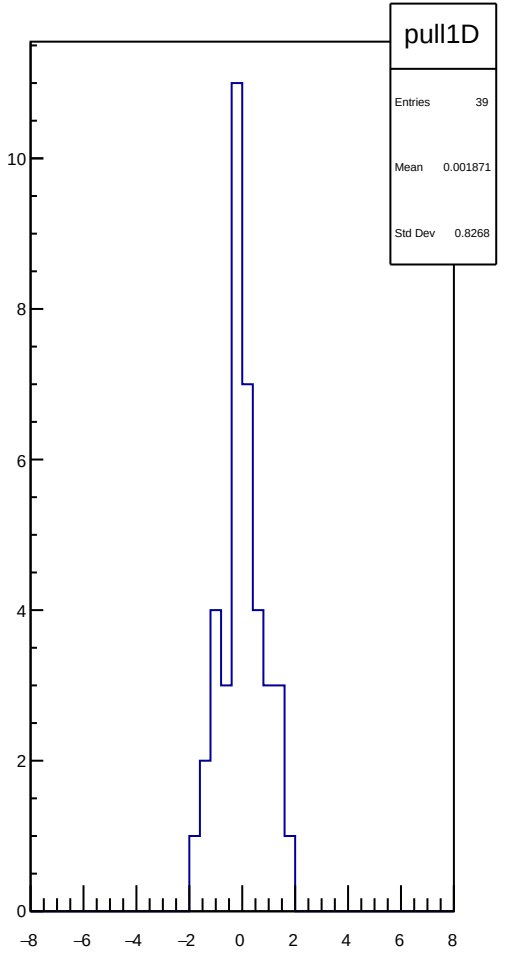

asym_usr_cor_correction_rms vs run
χ² / ndf 8842 / 38
p0 1858 ± 2.147
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

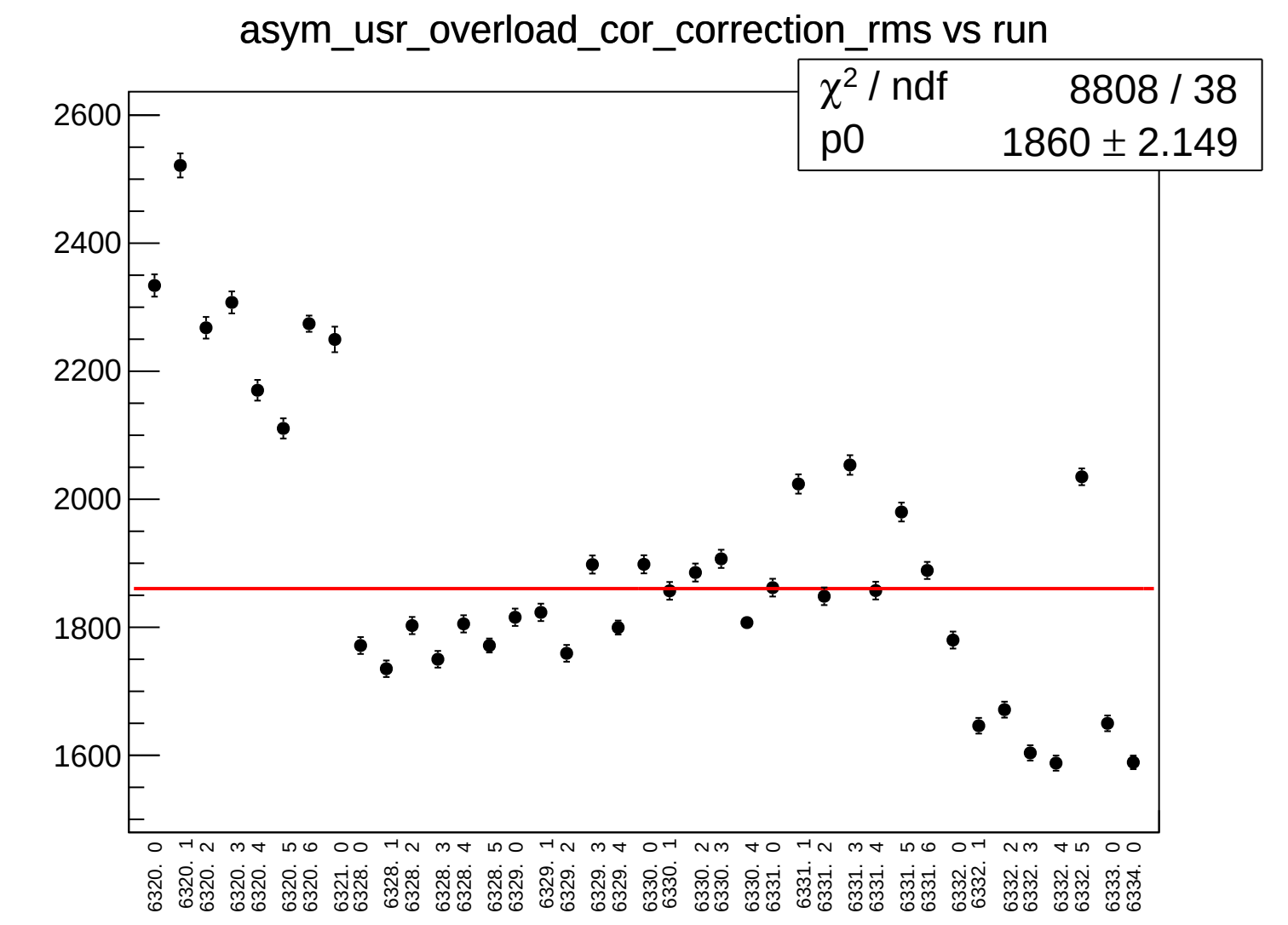

overload_cor_asym_usr_mean vs run
χ² / ndf 35.58 / 38
p0 2488 ± 1787
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.475
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

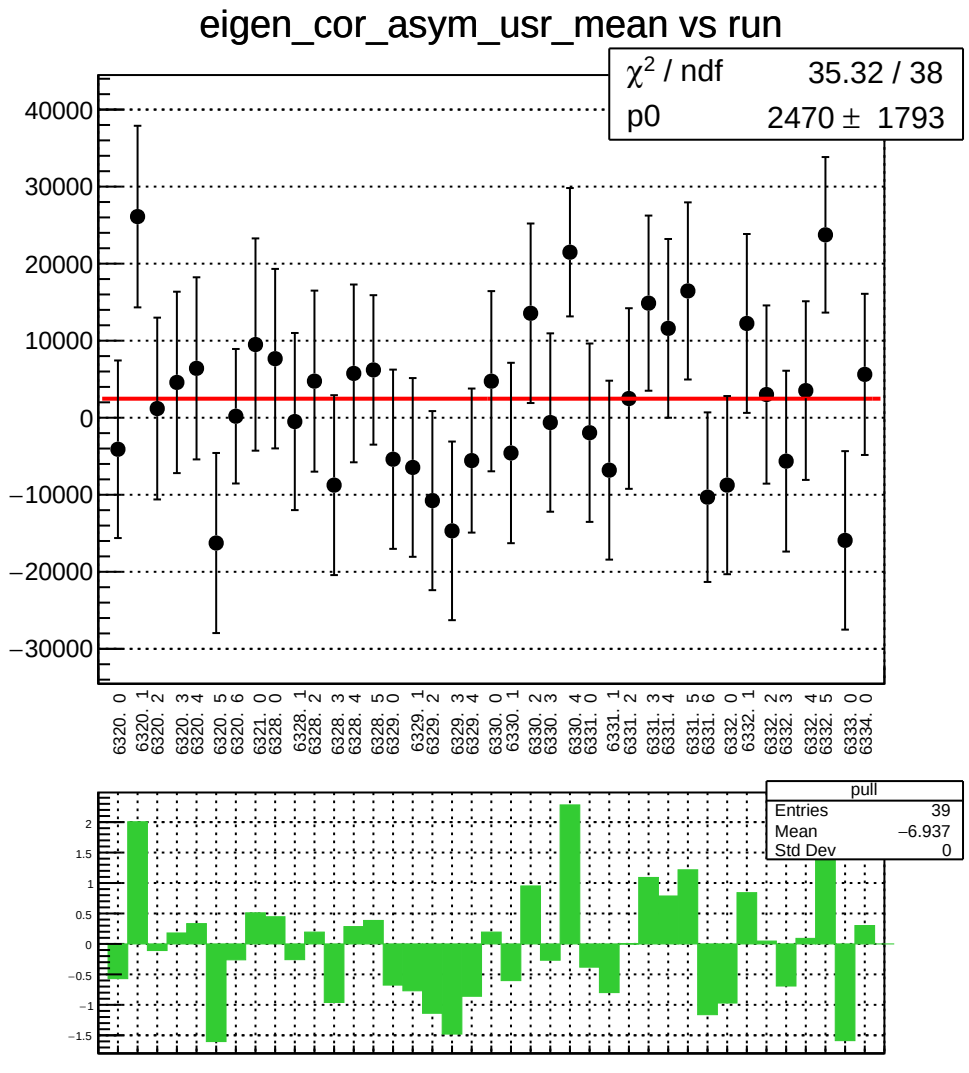

pull1D
Entries 39
Mean −0.02215
Std Dev 0.9548
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

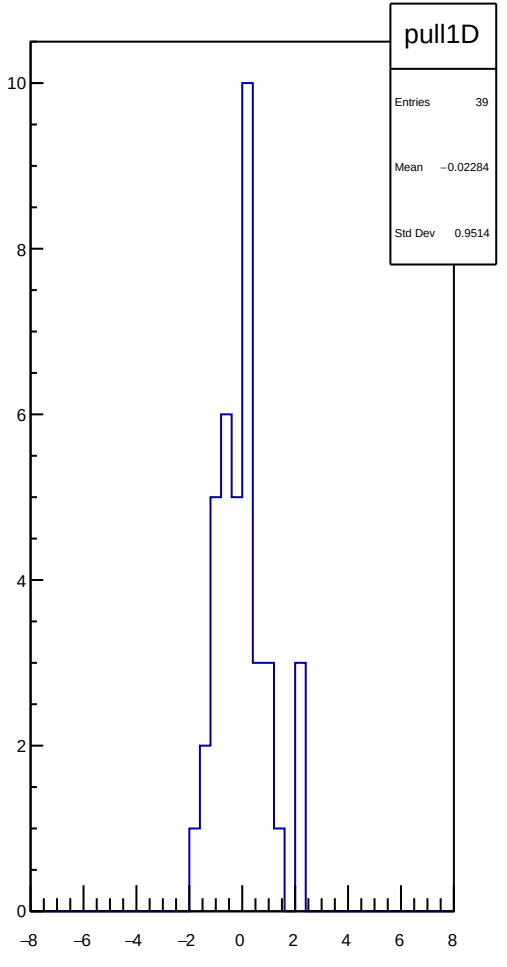

overload_cor_asym_usr_rms vs run
χ² / ndf 47.99 / 38
p0 1100 ± 1.264
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

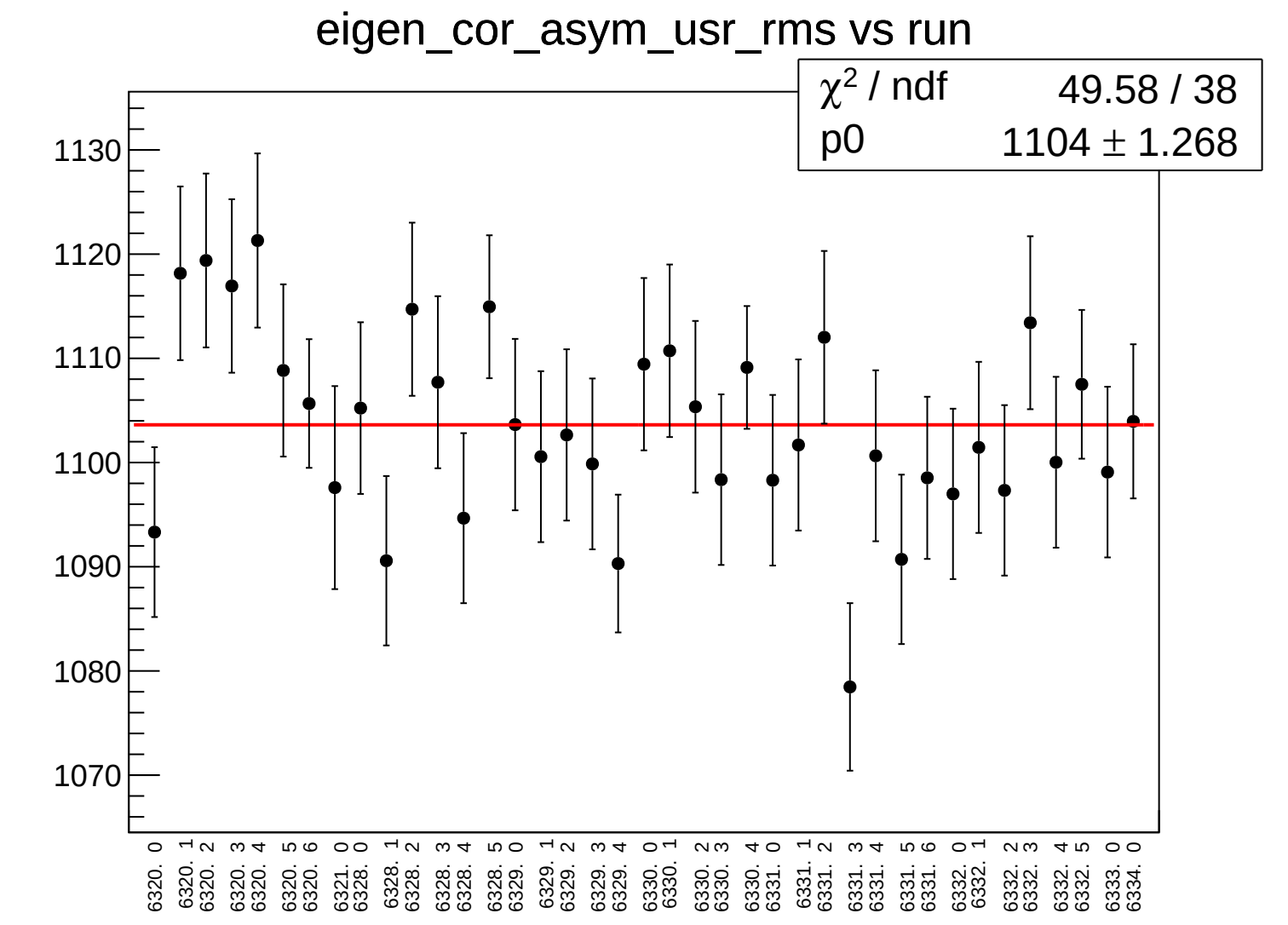

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 26.66 / 38
p0 2714 ± 3039
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.61
Std Dev 43.61
1.5
1
0.5
0
−0.5
−1
−1.5

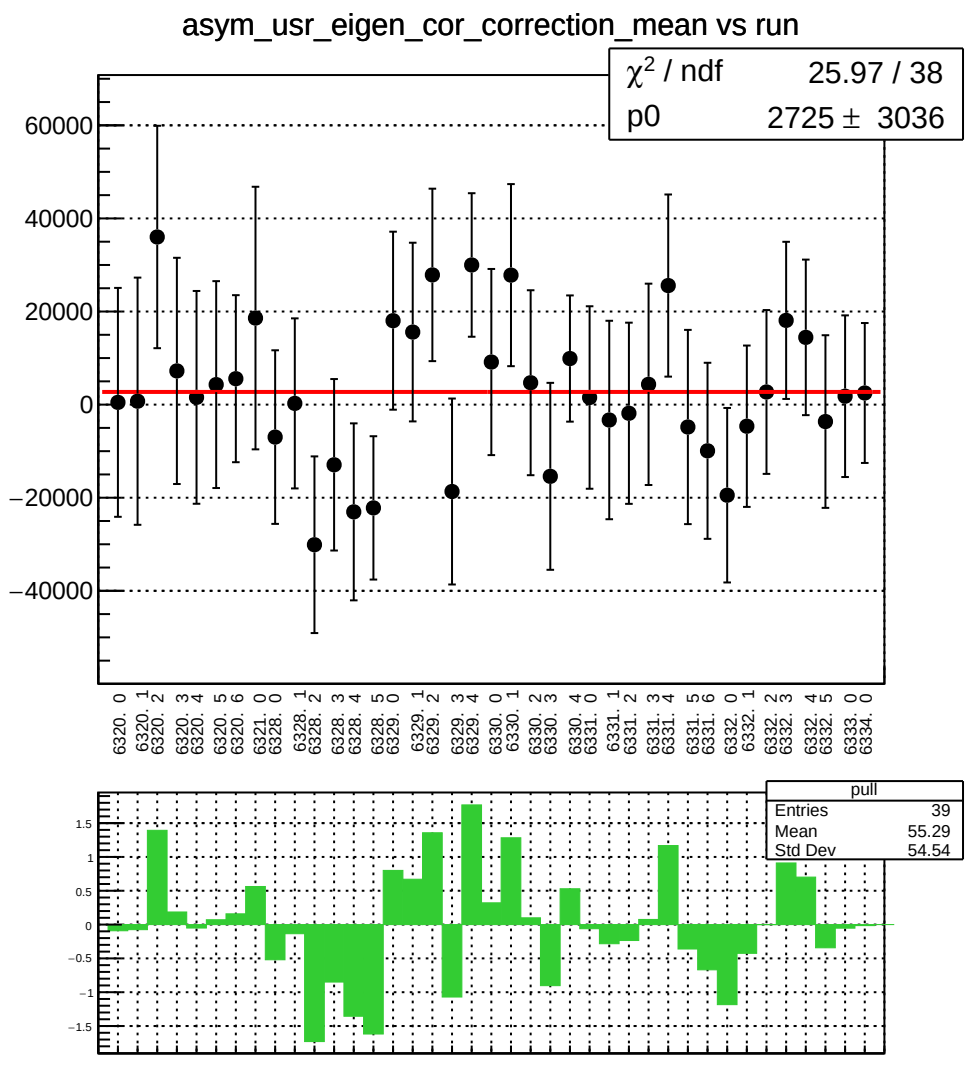

pull1D
Entries 39
Mean 0.001871
Std Dev 0.8268
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

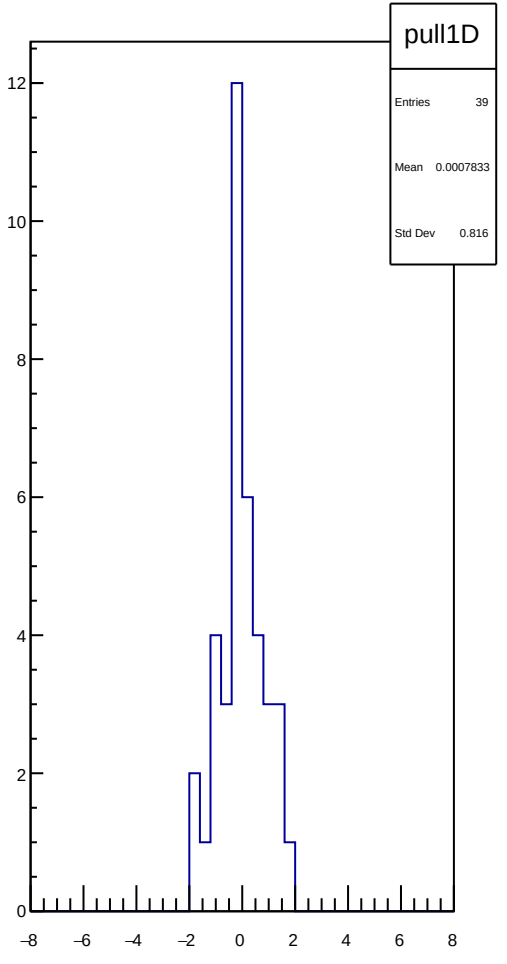

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 8808 / 38
p0 1860 ± 2.149
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

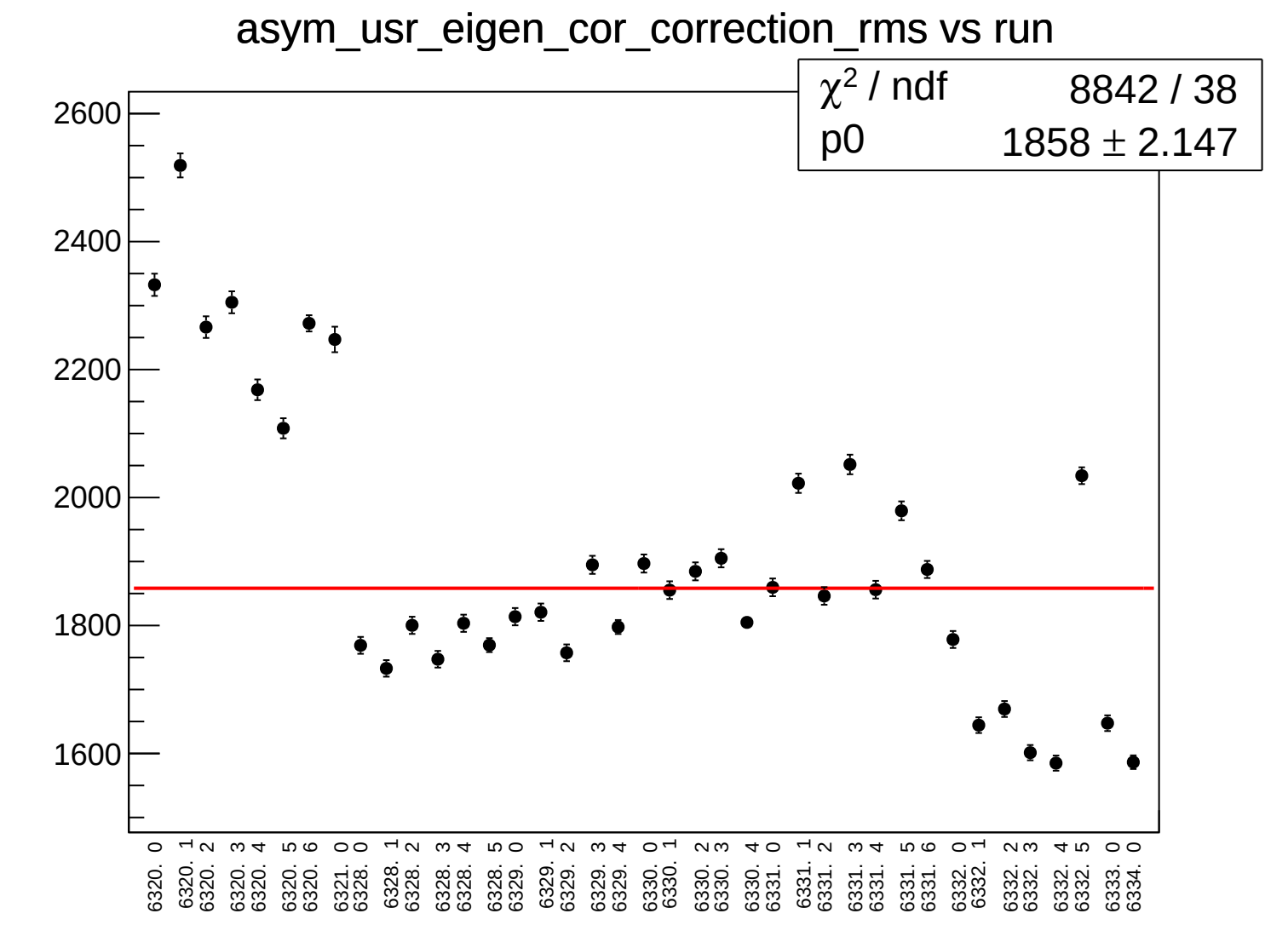

eigen_cor_asym_usr_mean vs run
χ² / ndf 35.32 / 38
p0 2470 ± 1793
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.937
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

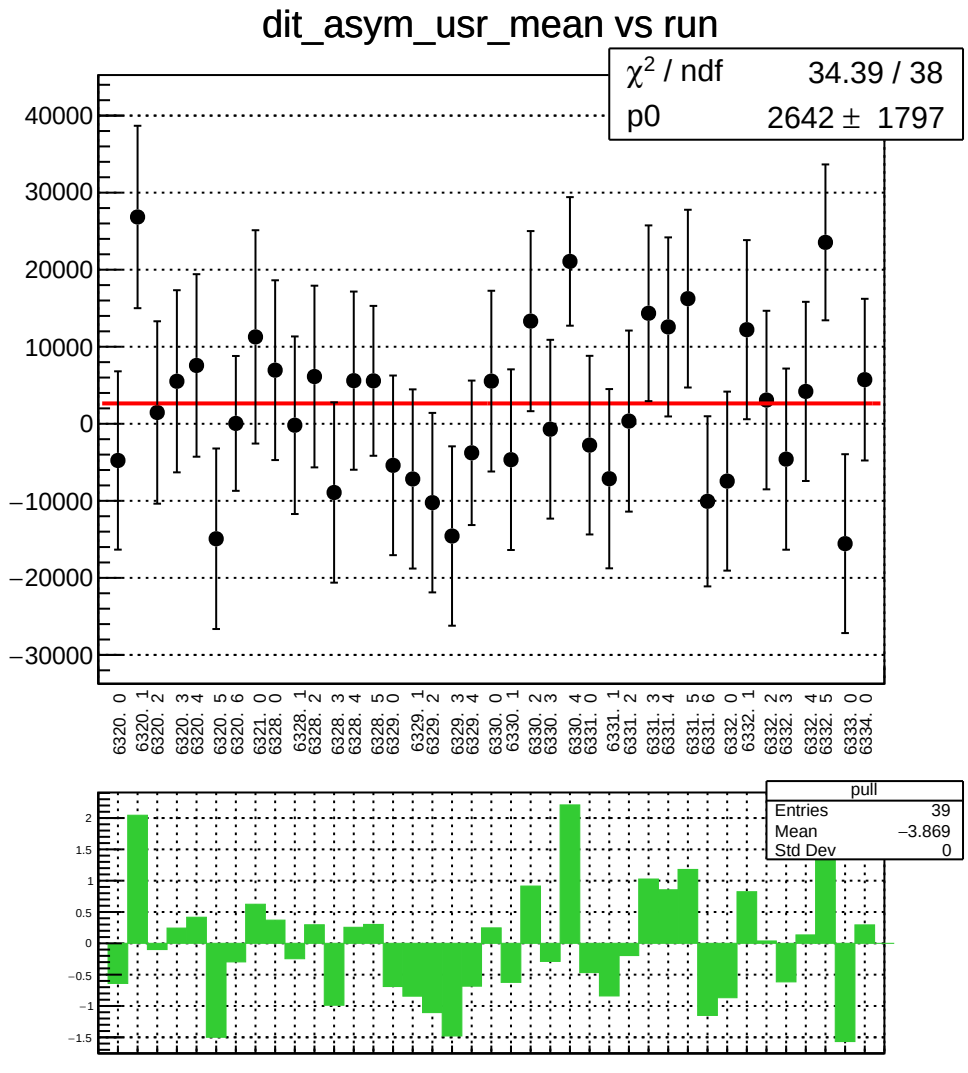

pull1D
Entries 39
Mean −0.02284
Std Dev 0.9514
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

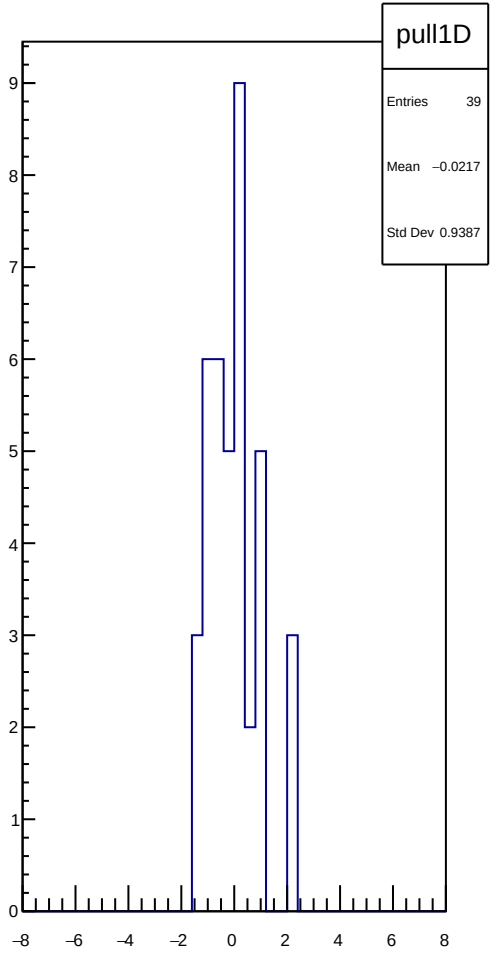

eigen_cor_asym_usr_rms vs run
χ² / ndf 49.58 / 38
p0 1104 ± 1.268
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

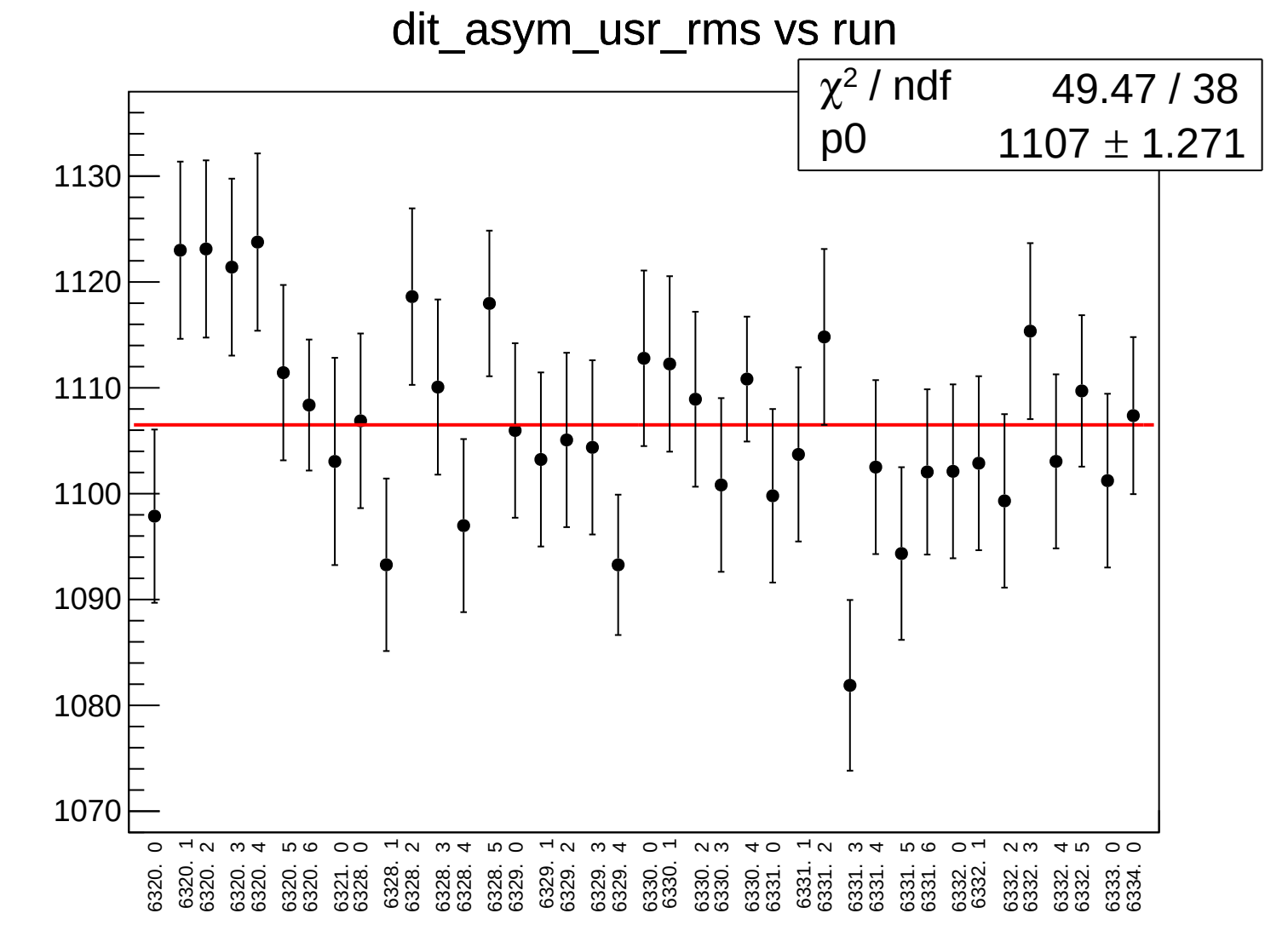

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 25.97 / 38
p0 2725 ± 3036
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.29
Std Dev 54.54
1.5
1
0.5
0
−0.5
−1
−1.5

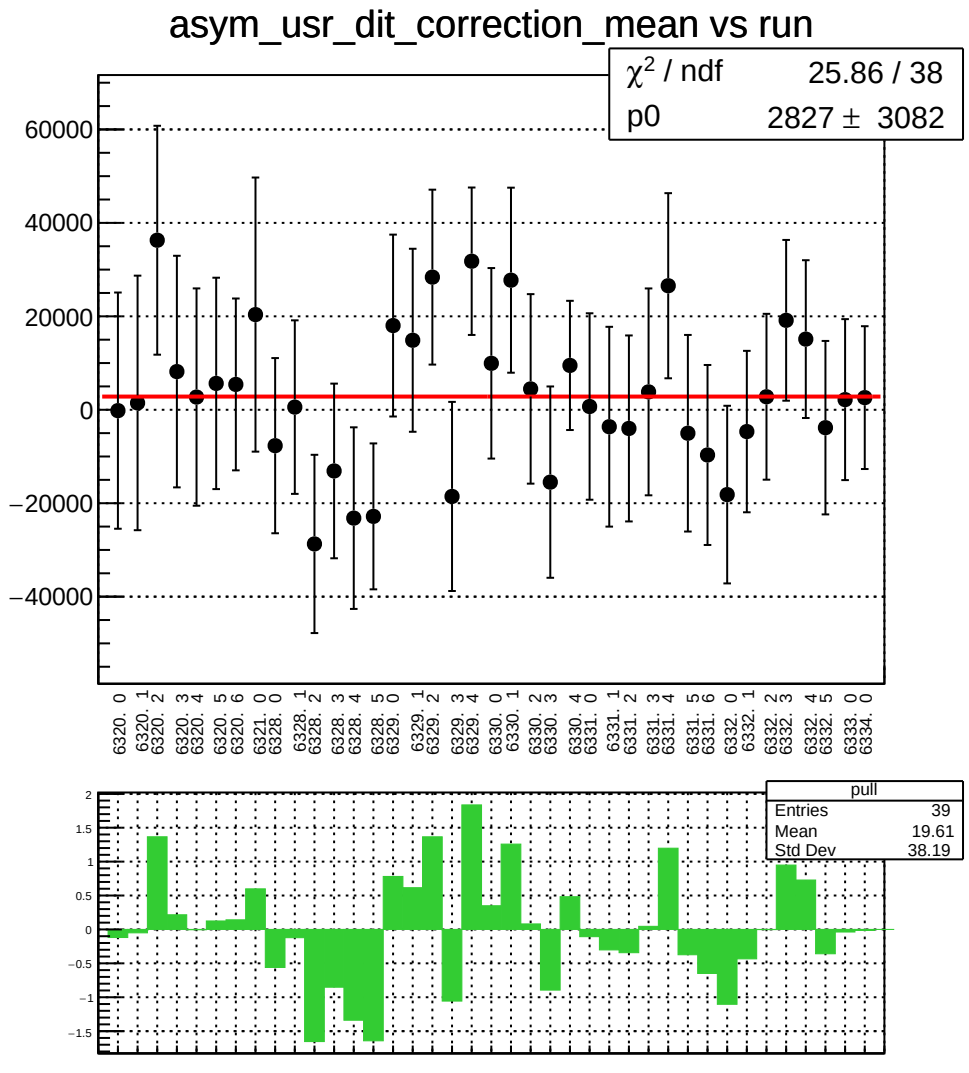

pull1D
Entries 39
Mean 0.0007833
Std Dev 0.816
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

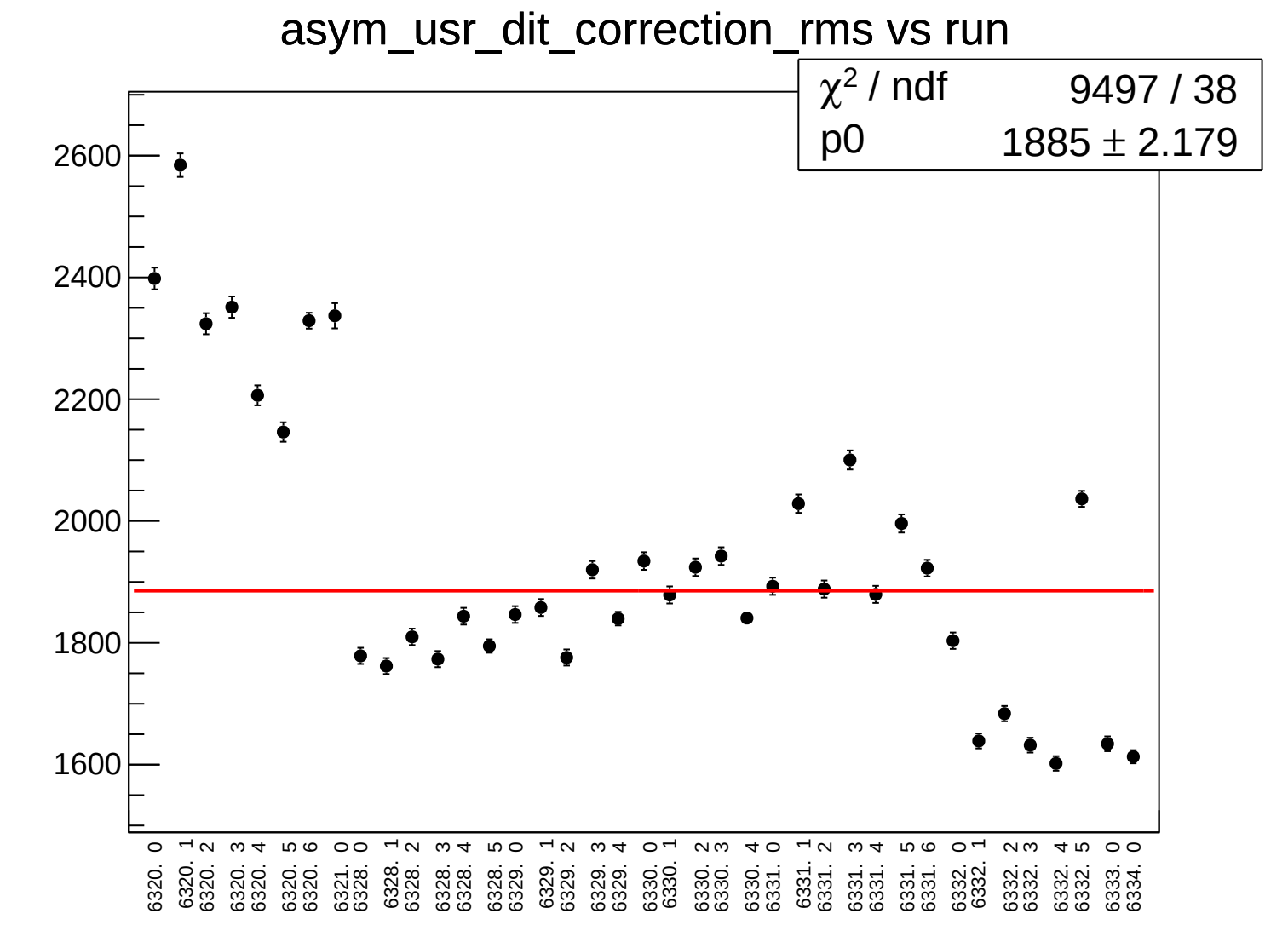

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 8842 / 38
p0 1858 ± 2.147
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

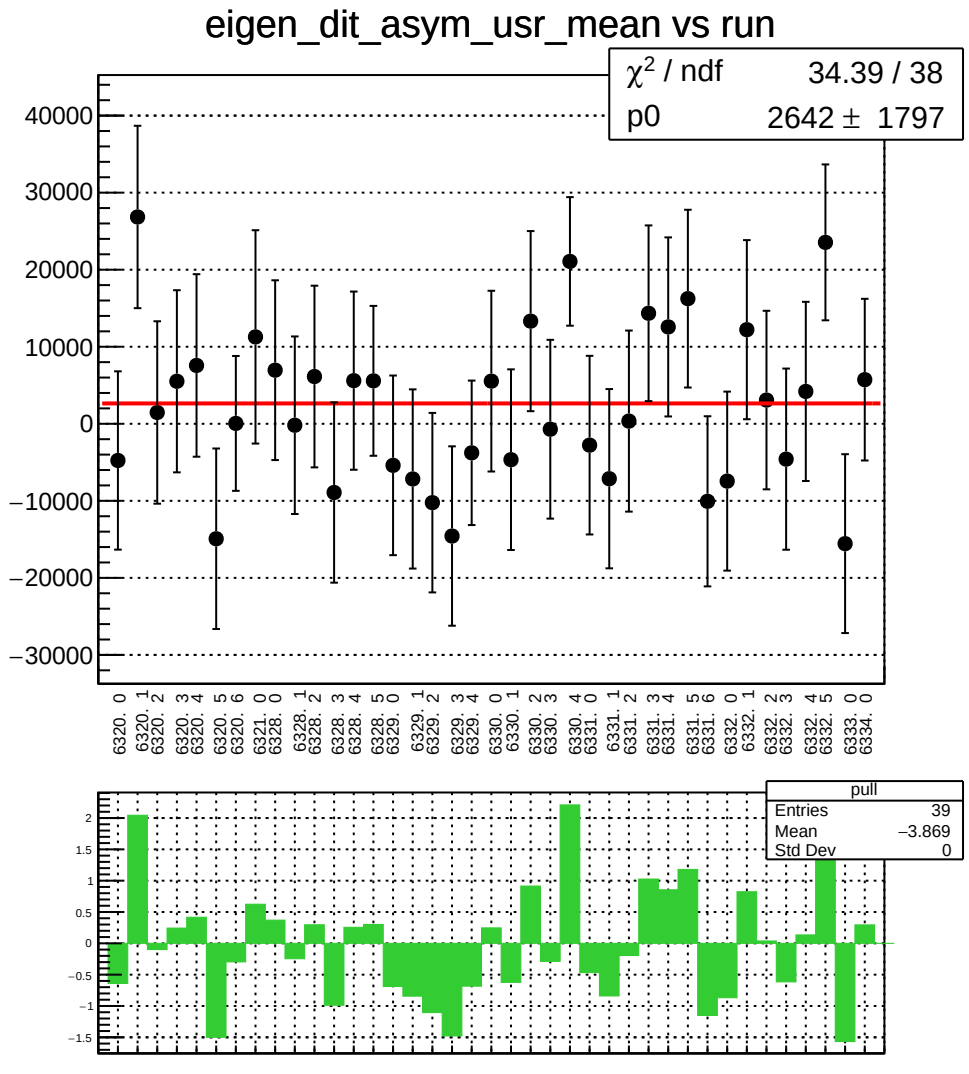

dit_asym_usr_mean vs run
χ² / ndf 34.39 / 38
p0 2642 ± 1797
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.869
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

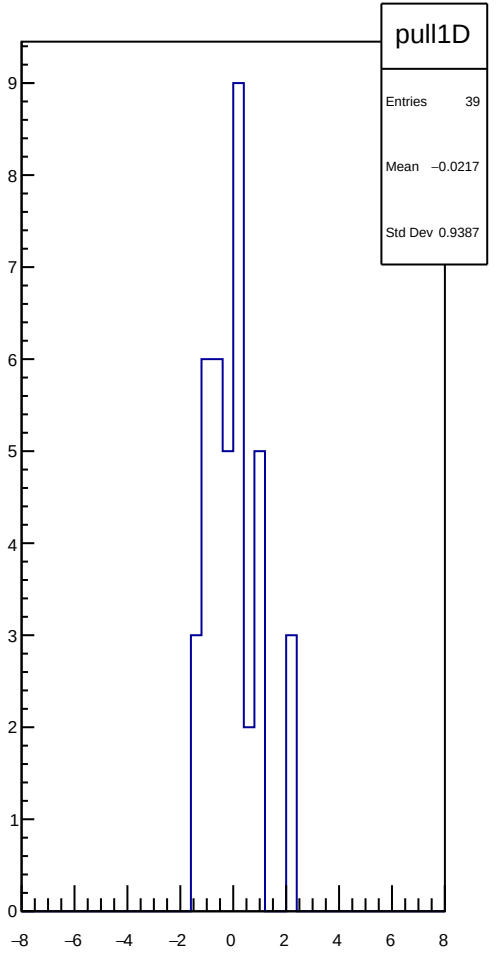

pull1D
Entries 39
Mean −0.0217
Std Dev 0.9387
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

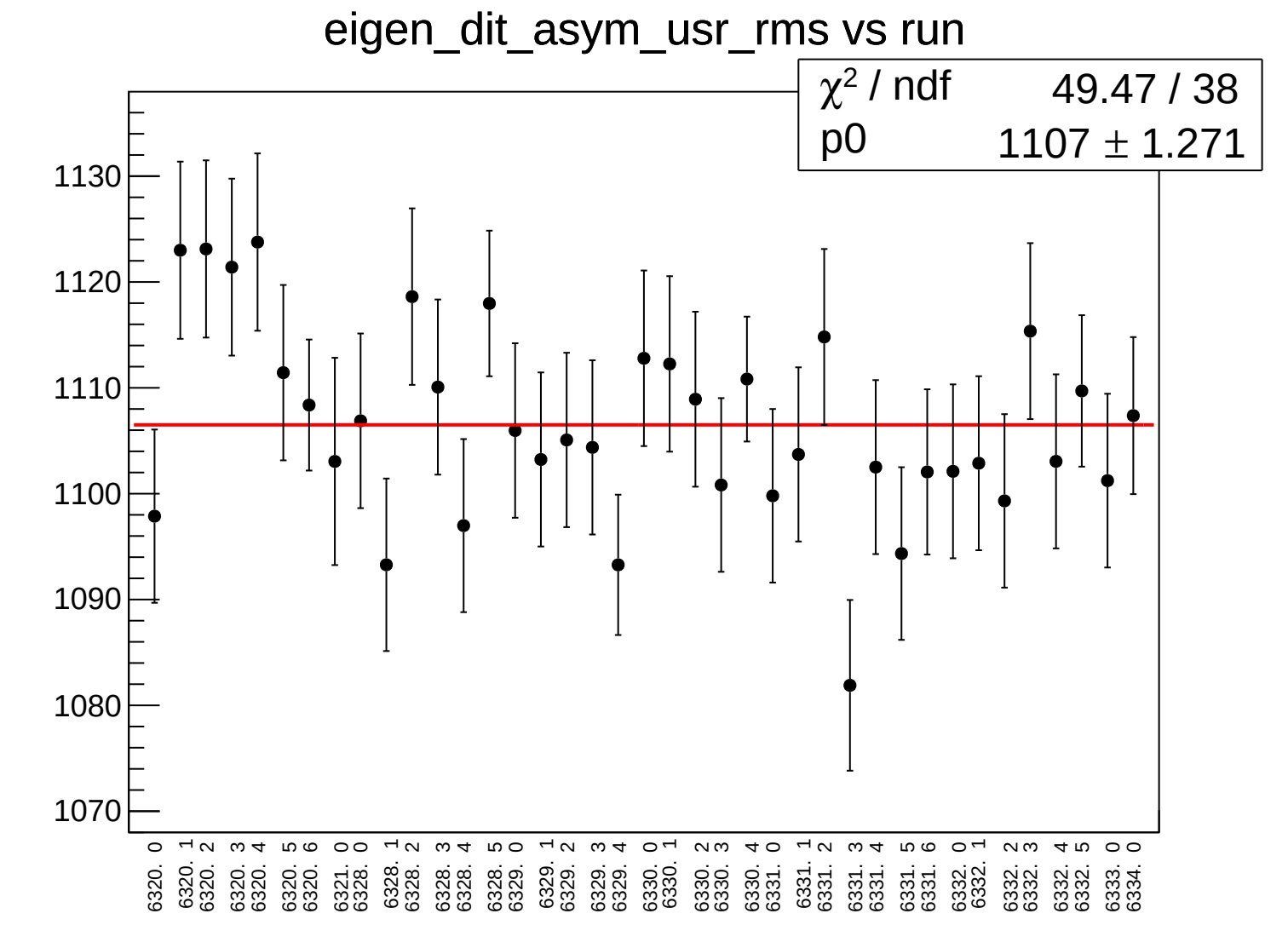

dit_asym_usr_rms vs run
χ² / ndf 49.47 / 38
p0 1107 ± 1.271
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

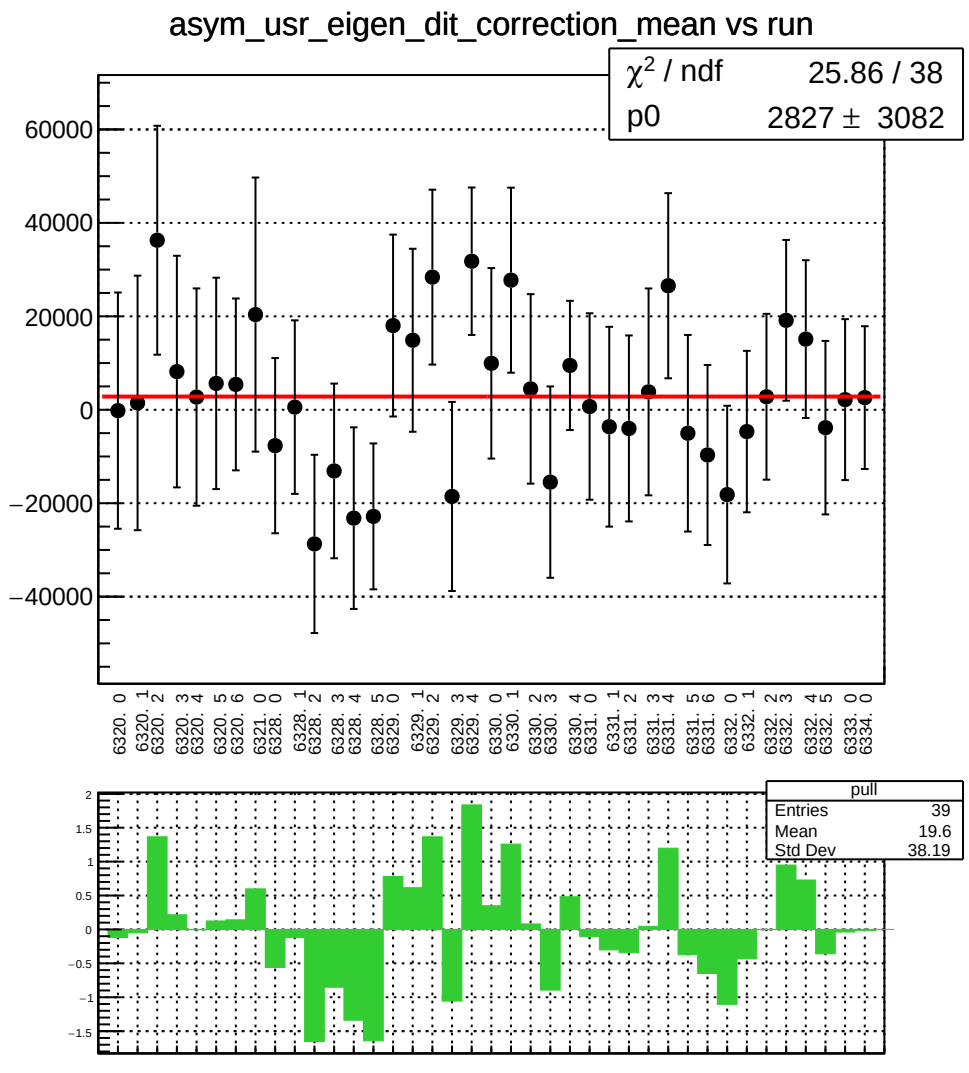

asym_usr_dit_correction_mean vs run
χ² / ndf 25.86 / 38
p0 2827 ± 3082
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.61
Std Dev 38.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.003014
Std Dev 0.8144
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

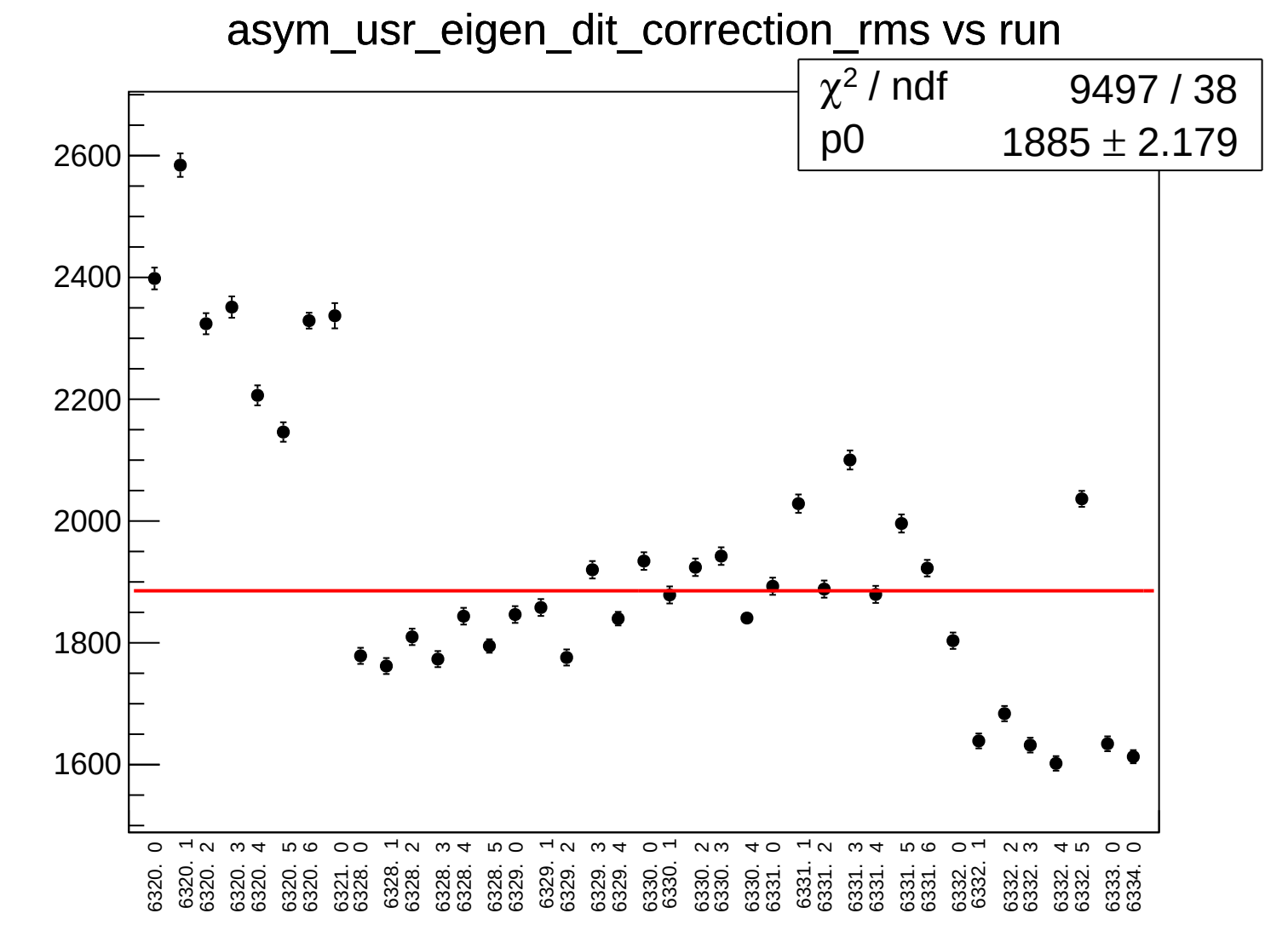

asym_usr_dit_correction_rms vs run
χ² / ndf 9497 / 38
p0 1885 ± 2.179
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

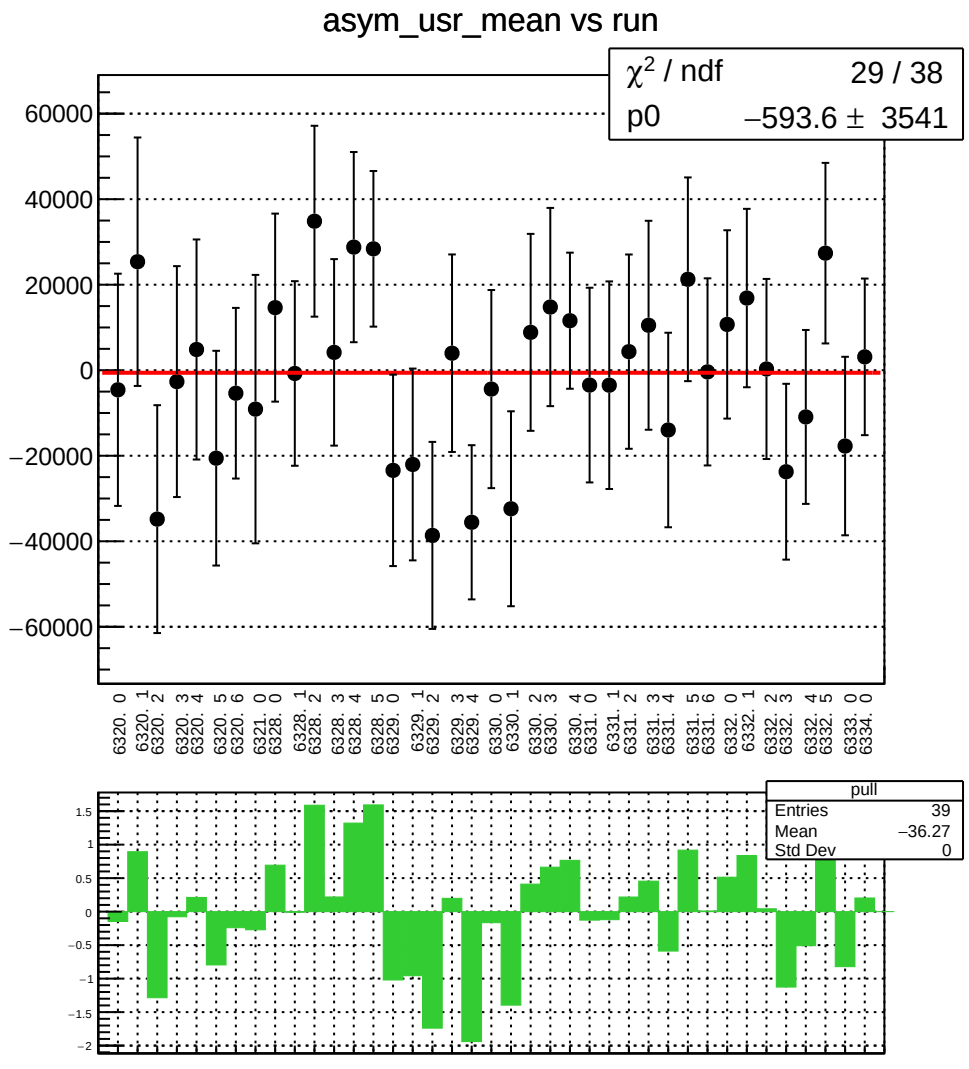

eigen_dit_asym_usr_mean vs run
χ² / ndf 34.39 / 38
p0 2642 ± 1797
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.869
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

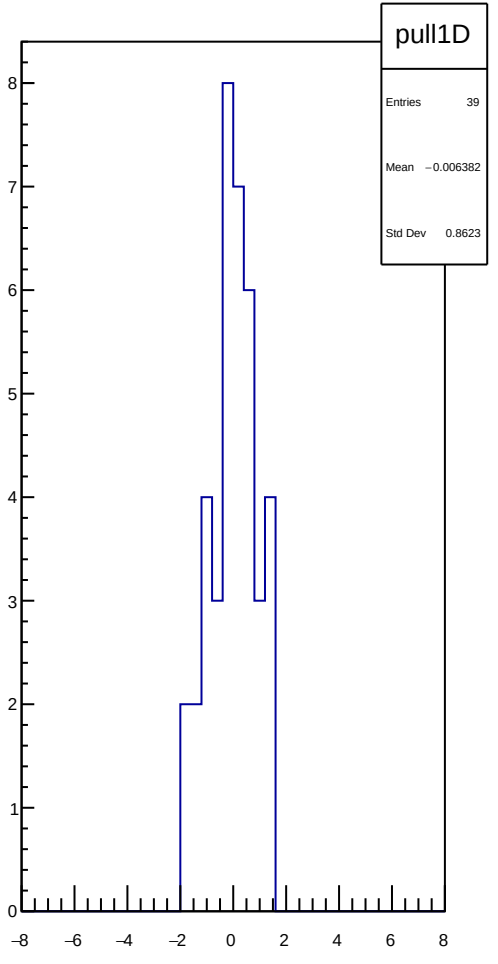

pull1D
Entries 39
Mean −0.0217
Std Dev 0.9387
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

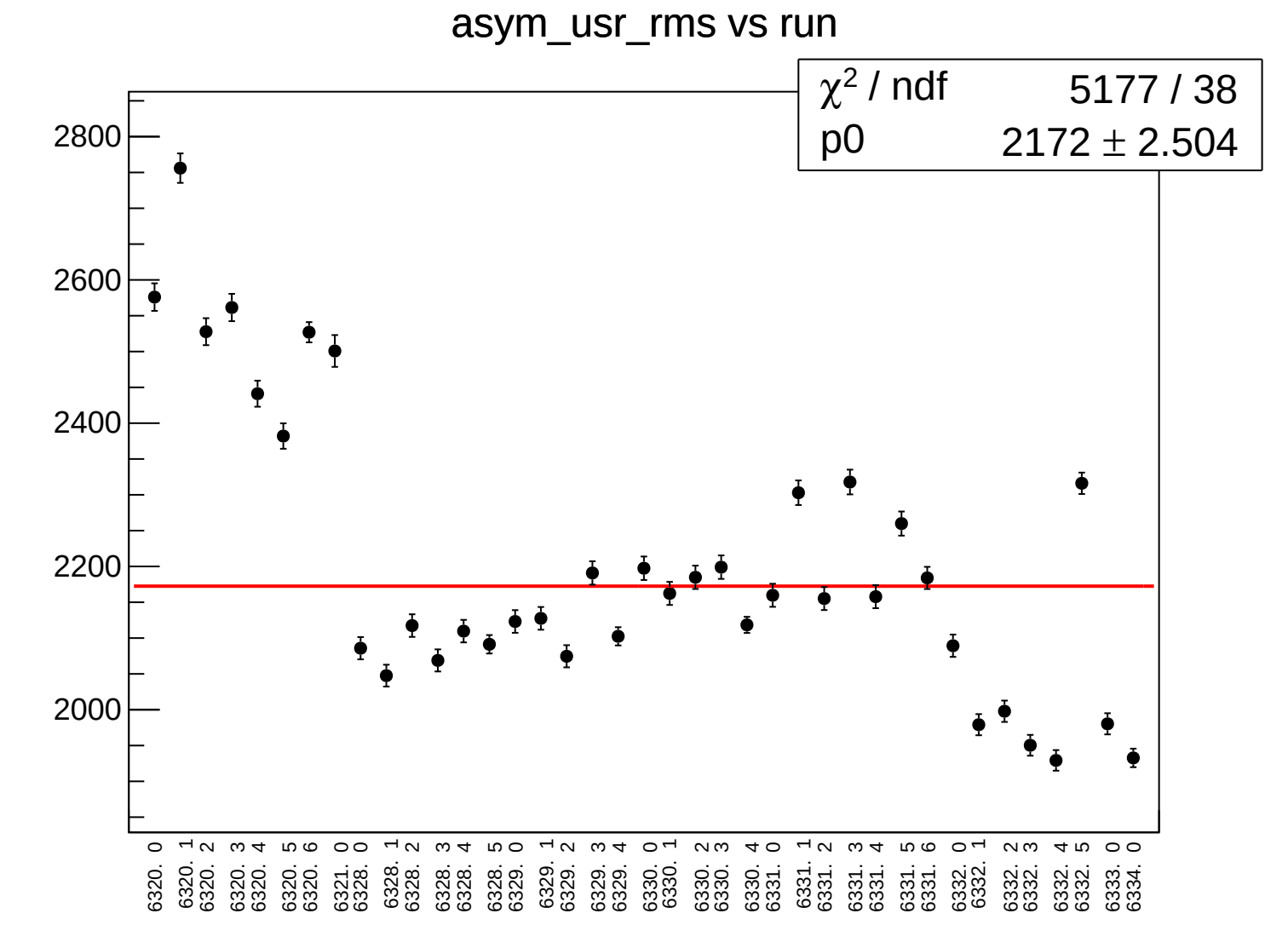

eigen_dit_asym_usr_rms vs run
χ² / ndf 49.47 / 38
p0 1107 ± 1.271
1130
1120
1110
1100
1090
1080
1070
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

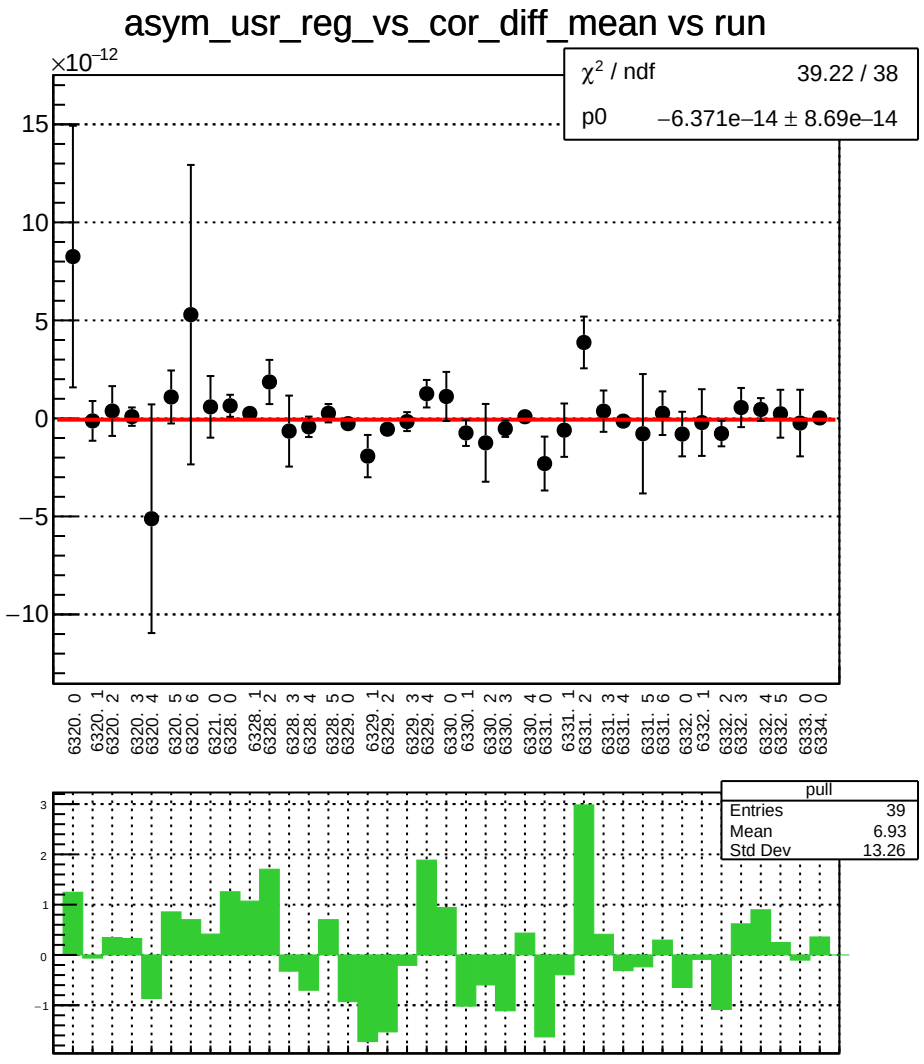

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 25.86 / 38
p0 2827 ± 3082
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.6
Std Dev 38.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.003014
Std Dev 0.8144
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

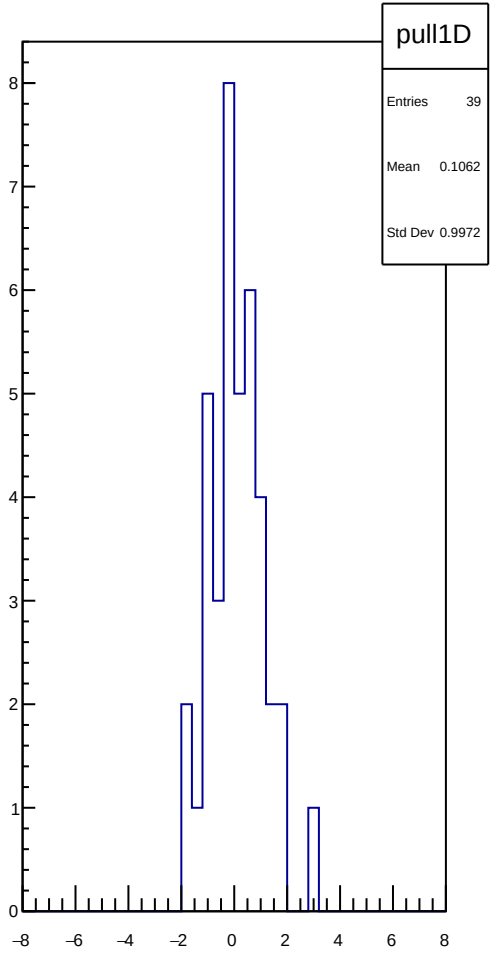

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 9497 / 38
p0 1885 ± 2.179
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

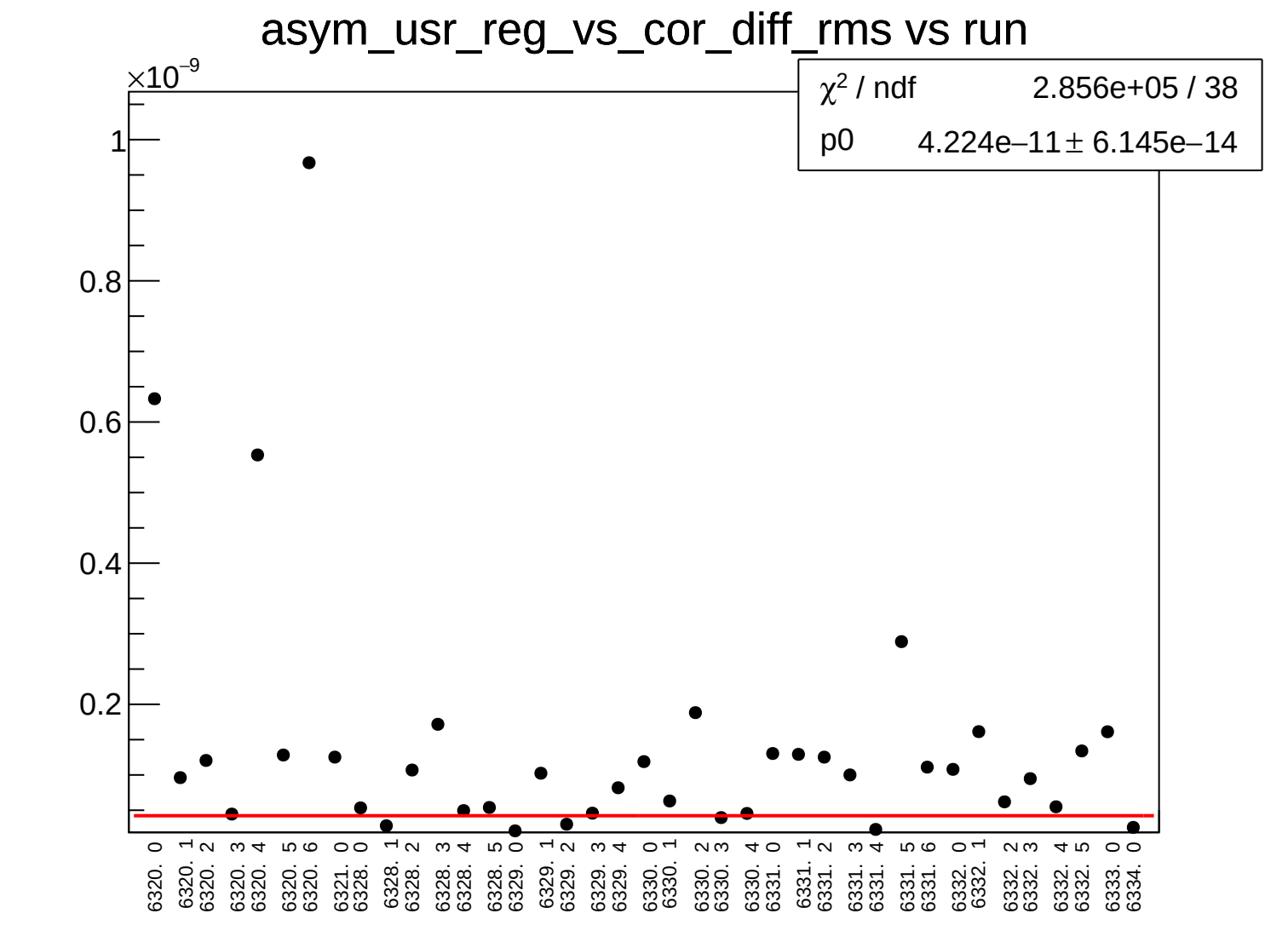

asym_usr_mean vs run
χ² / ndf 29 / 38
p0 −593.6 ± 3541
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

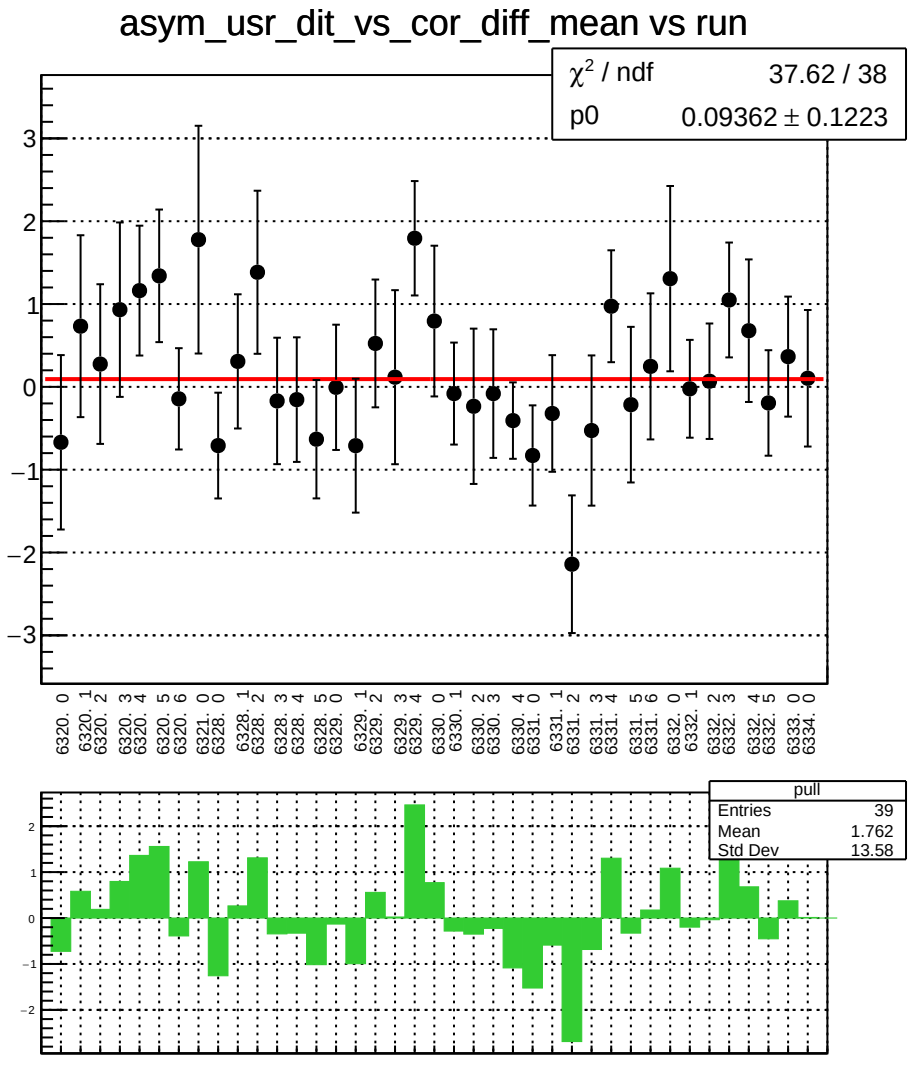

pull1D
Entries 39
Mean −0.006382
Std Dev 0.8623
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

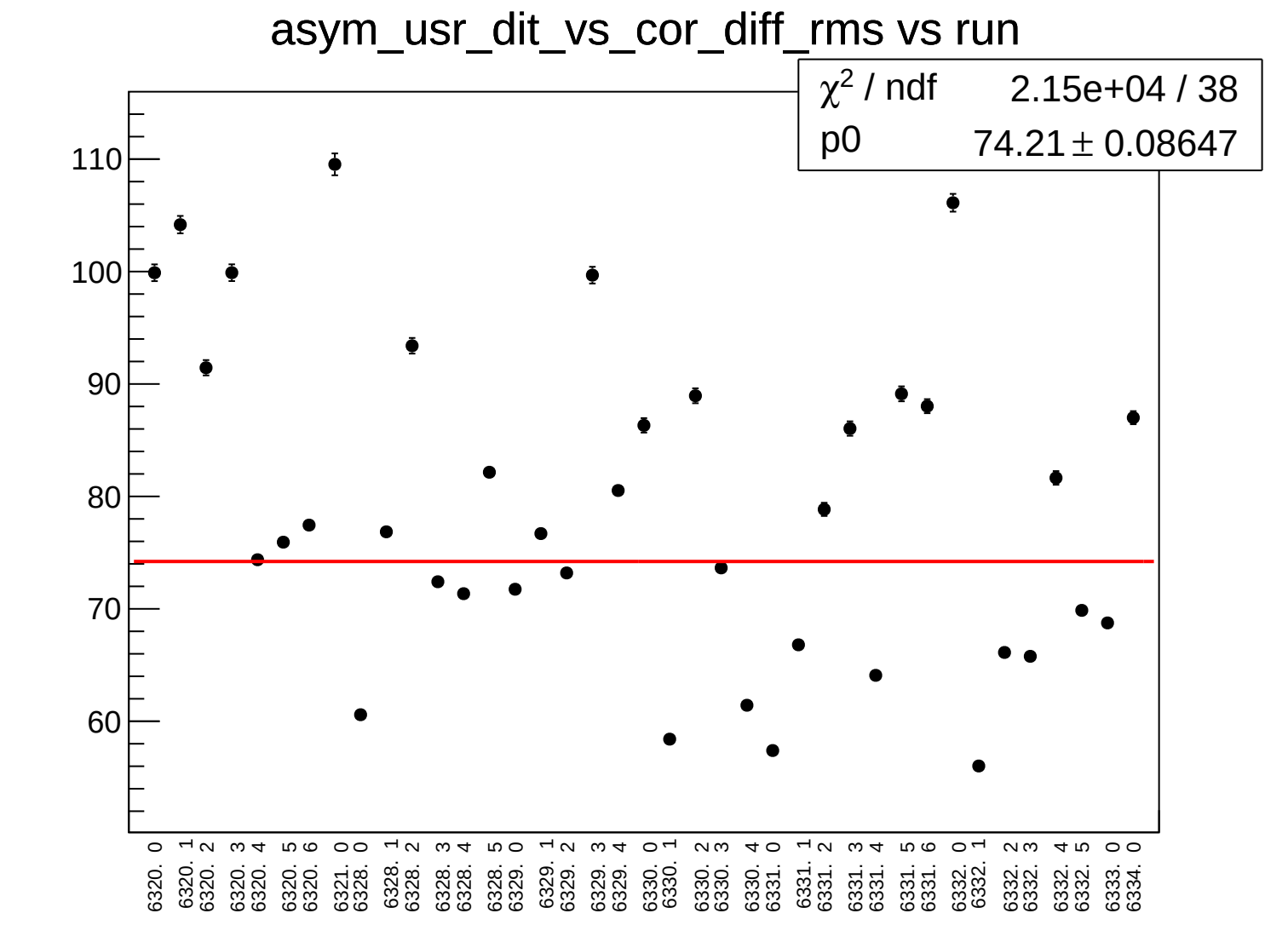

asym_usr_rms vs run
χ² / ndf 5177 / 38
p0 2172 ± 2.504
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

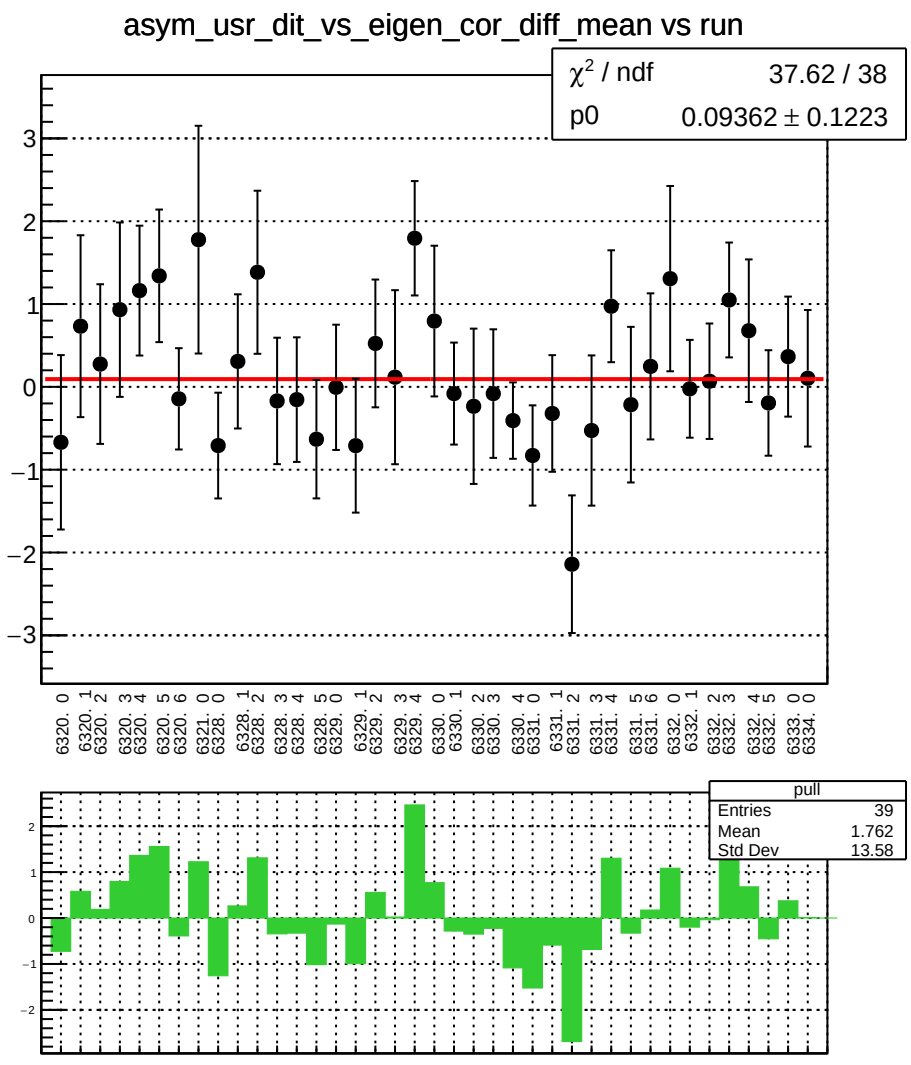

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.22 / 38
p0 −6.371e−14 ± 8.69e−14
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.93
Std Dev 13.26
3
2
1
0
−1

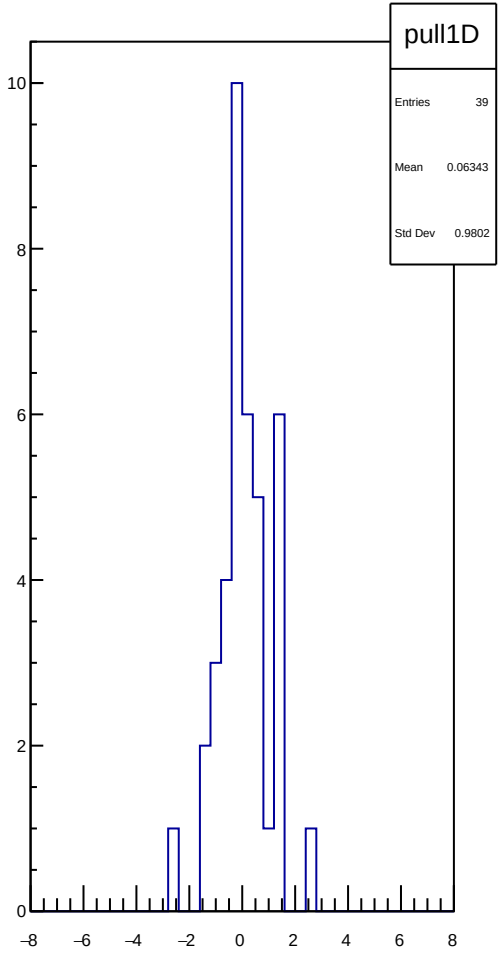

pull1D
Entries 39
Mean 0.1062
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

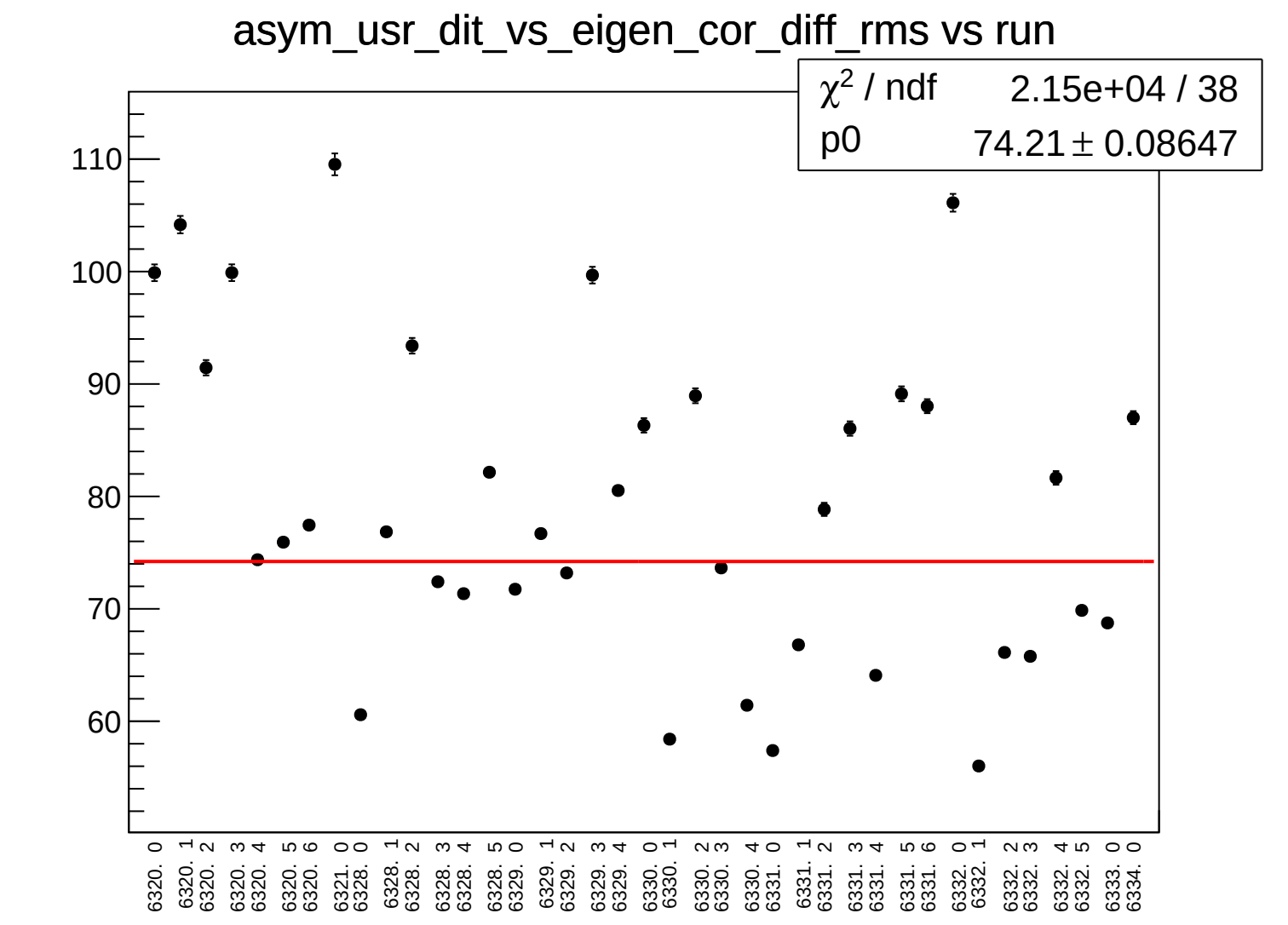

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.856e+05 / 38
p0 4.224e−11 ± 6.145e−14
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

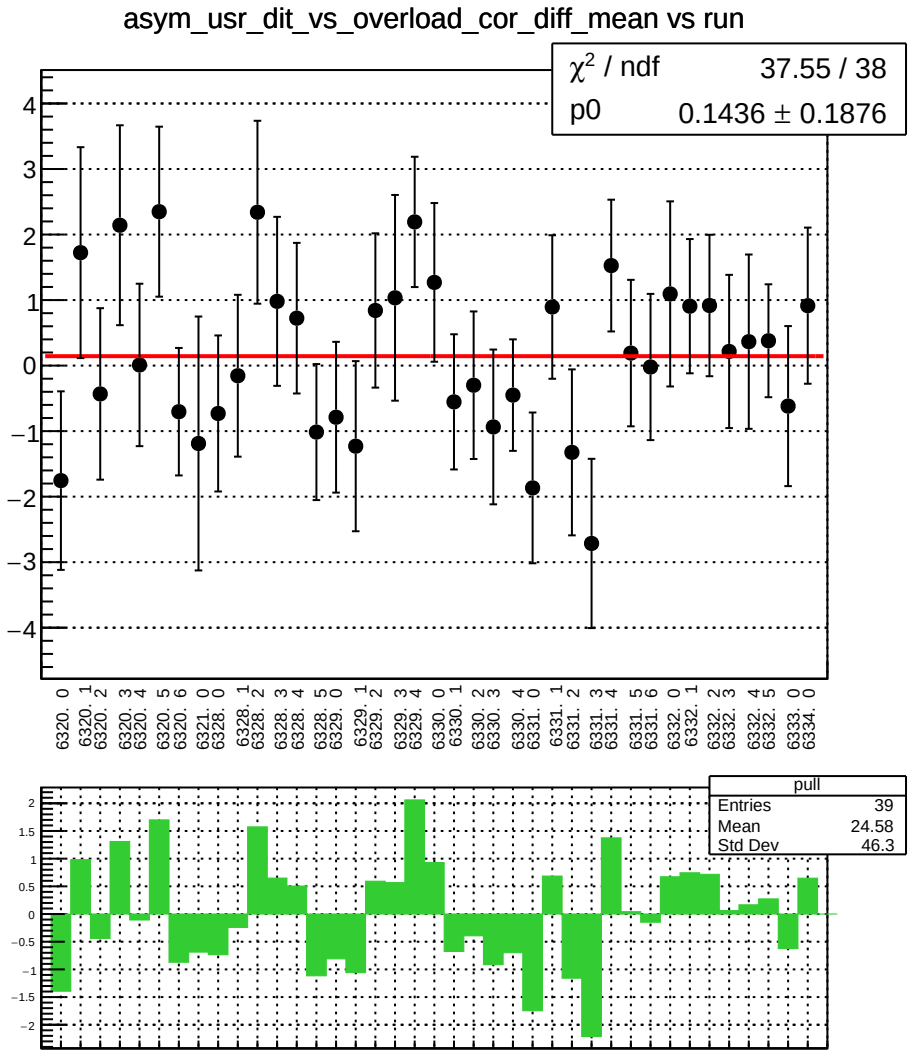

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 37.62 / 38
p0 0.09362 ± 0.1223
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.762
Std Dev 13.58
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.06343
Std Dev 0.9802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

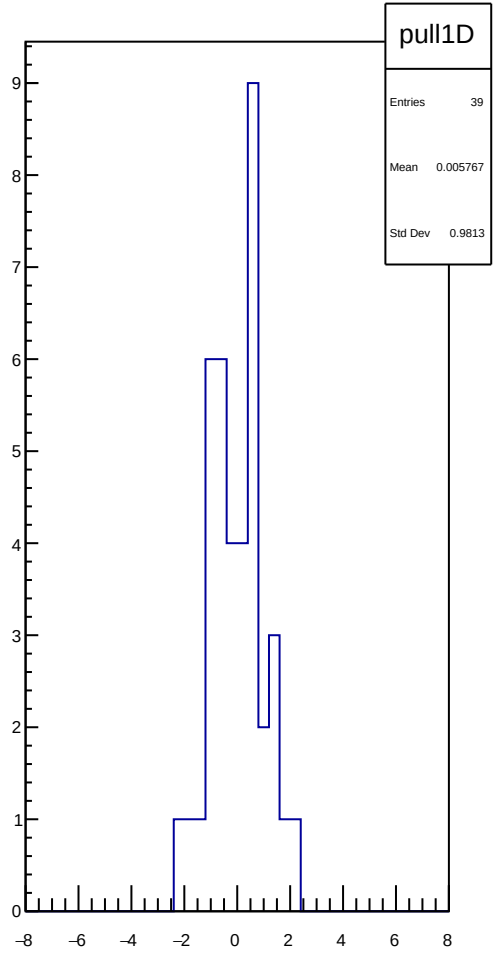

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 38
p0 74.21 ± 0.08647
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

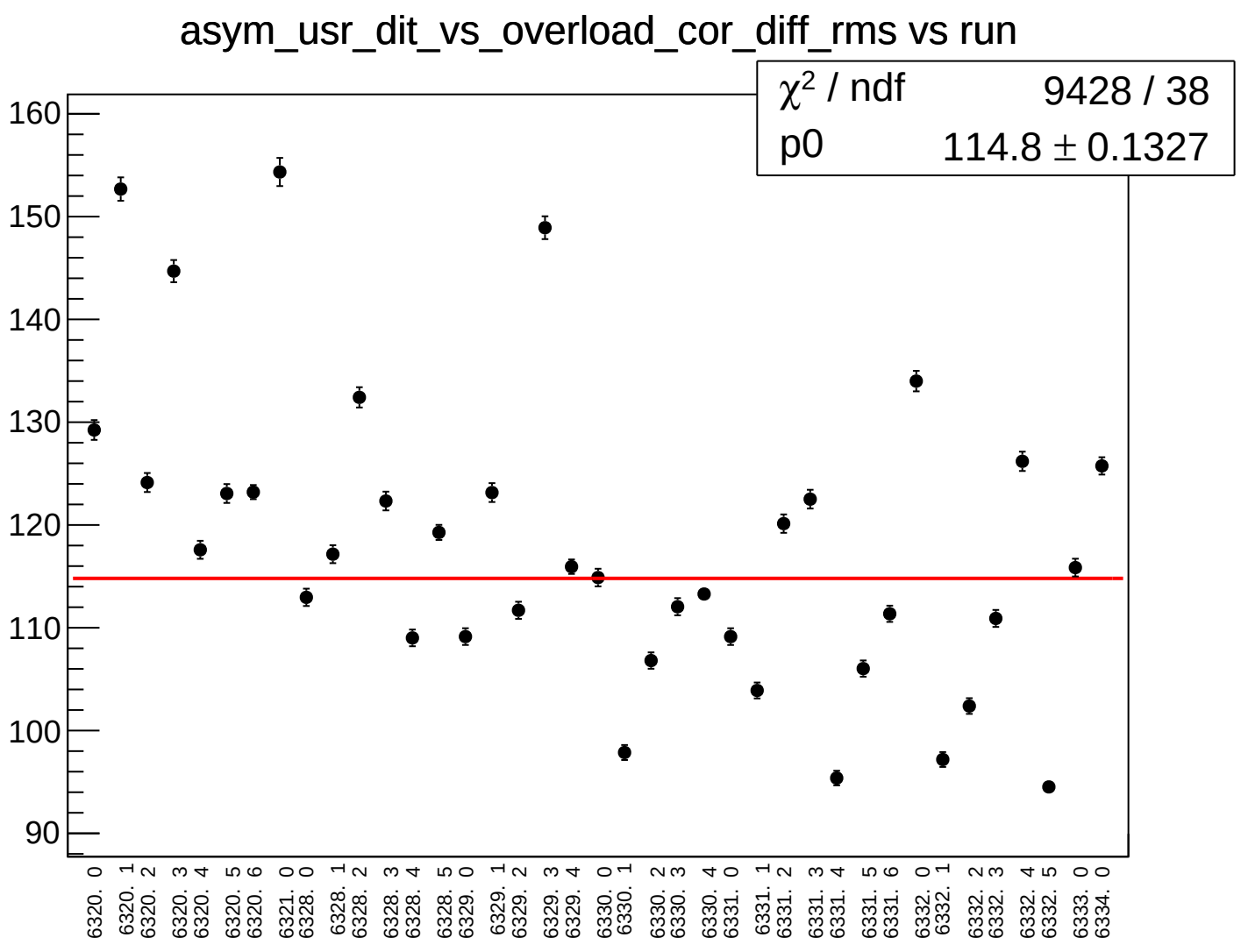

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.62 / 38
p0 0.09362 ± 0.1223
pull
Entries 39
Mean 1.762
Std Dev 13.58

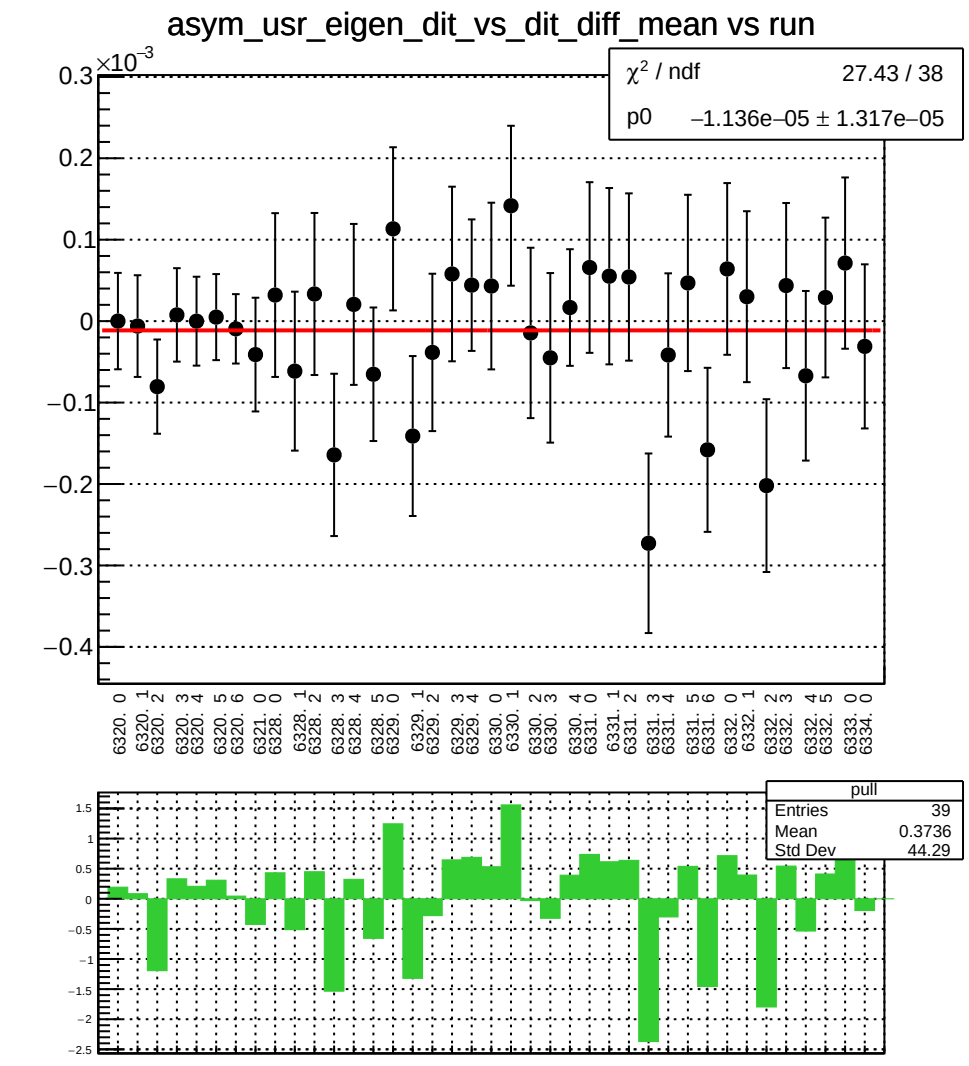

pull1D
Entries 39
Mean 0.06343
Std Dev 0.9802

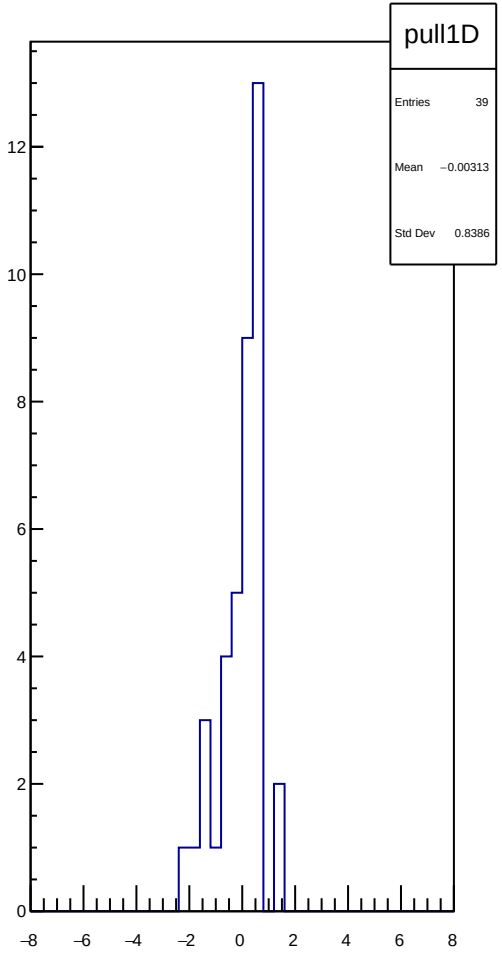

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.15e+04 / 38
p0 74.21 ± 0.08647
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

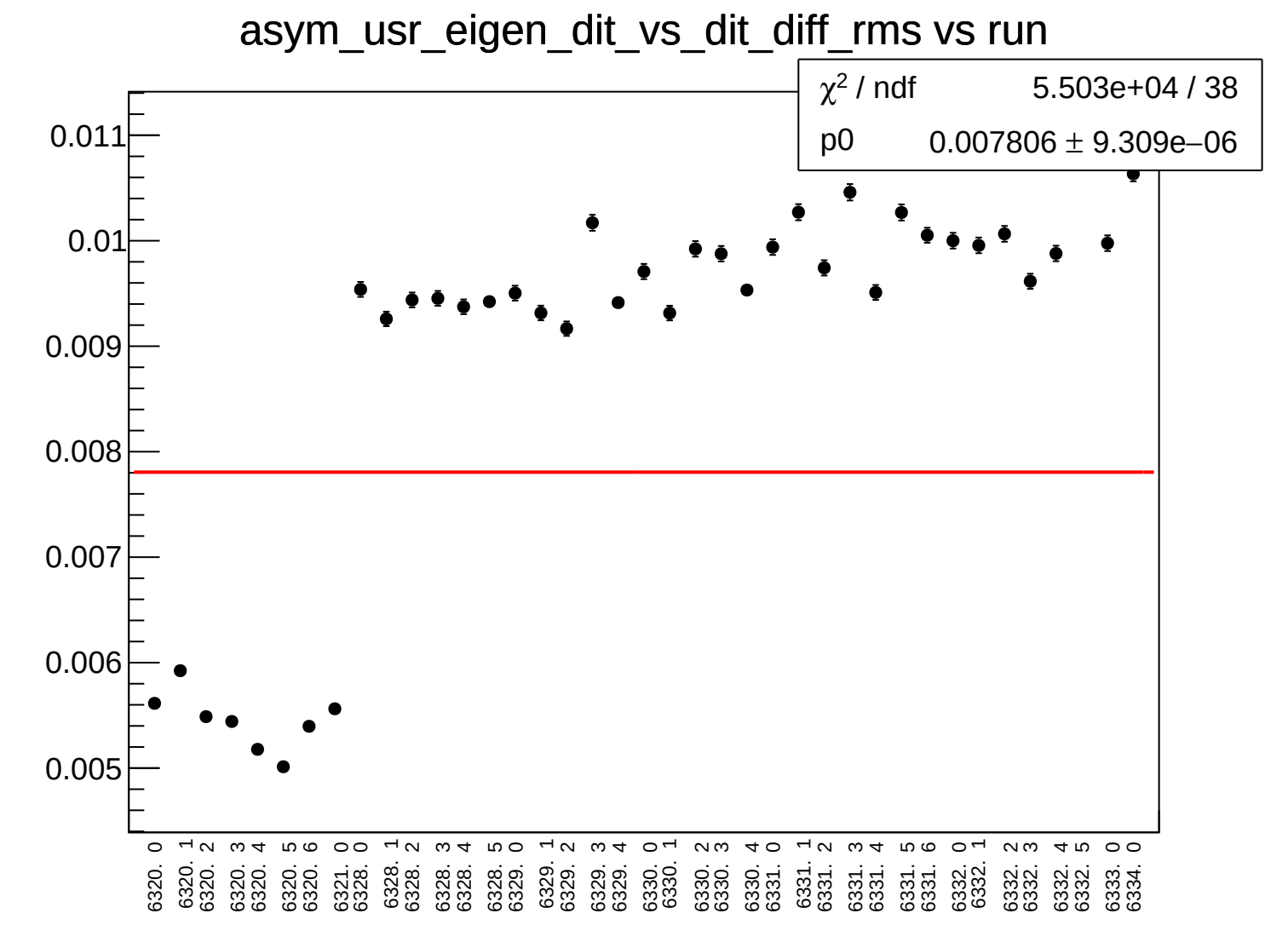

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.55 / 38
p0 0.1436 ± 0.1876
pull
Entries 39
Mean 24.58
Std Dev 46.3

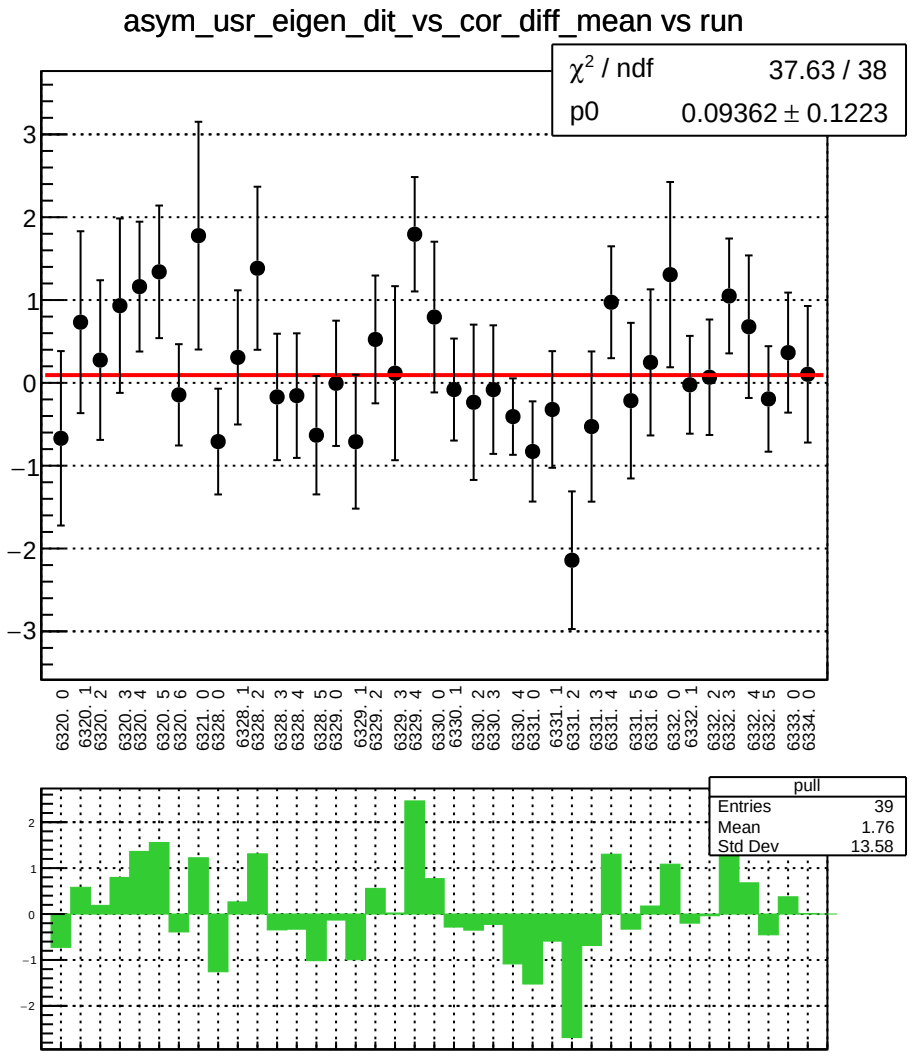

pull1D
Entries 39
Mean 0.005767
Std Dev 0.9813

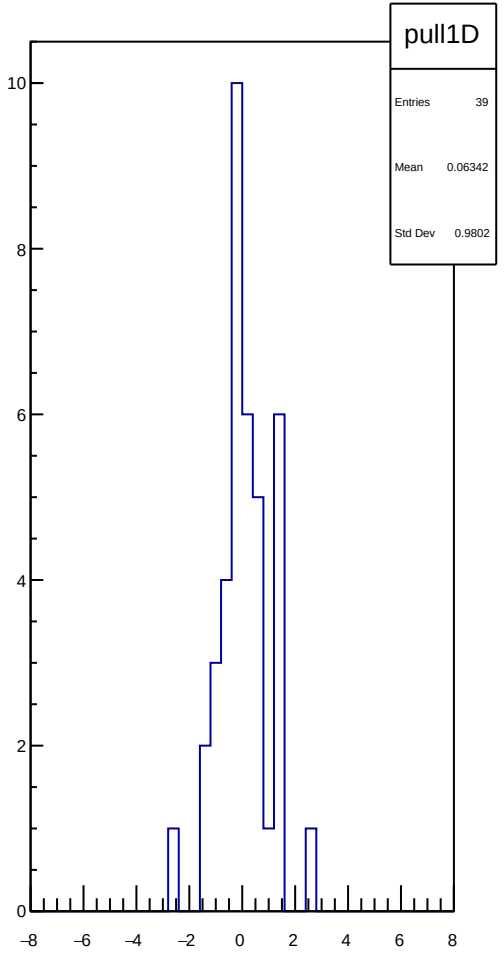

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9428 / 38
p0 114.8 ± 0.1327
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

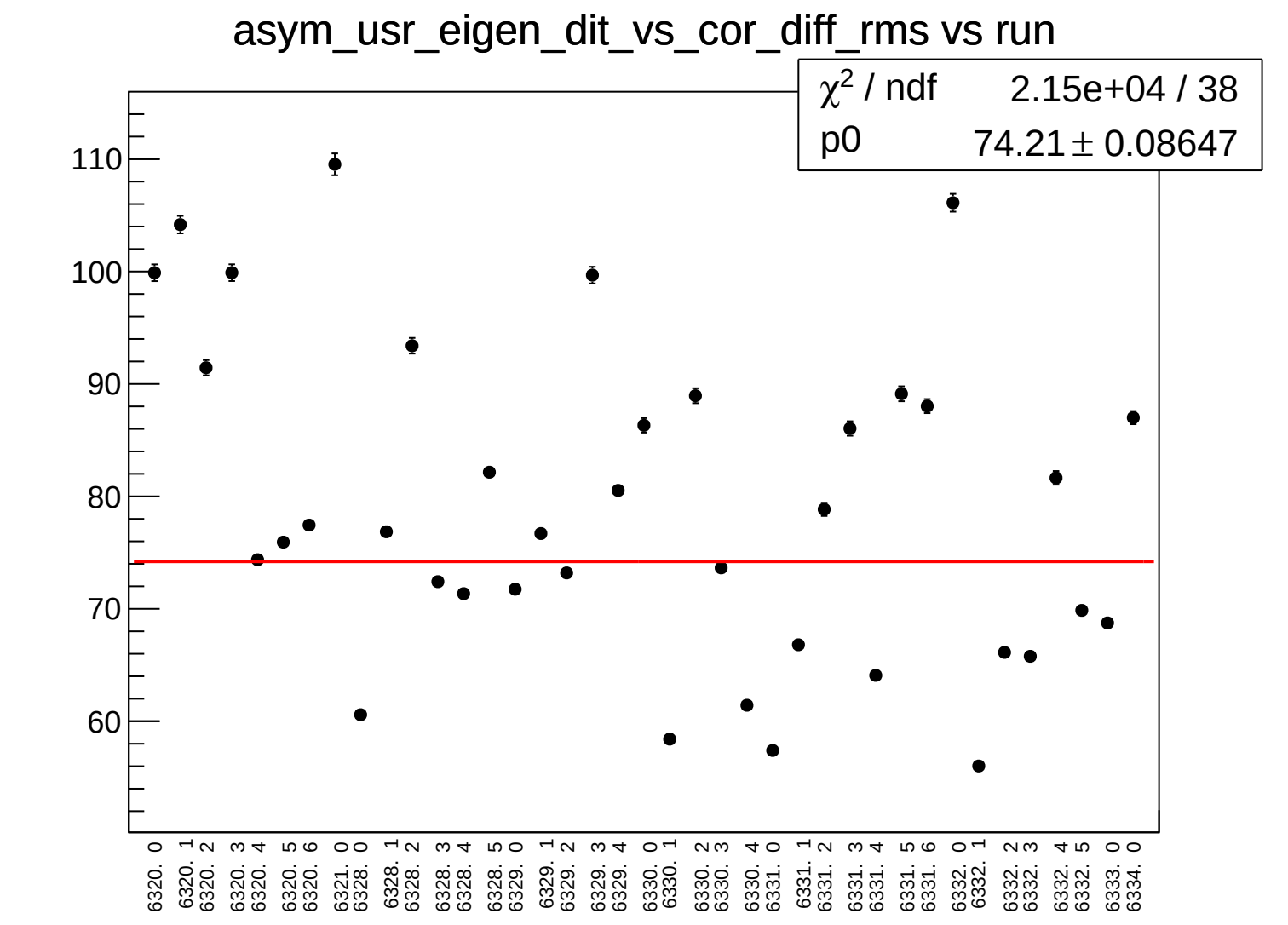

asym_usr_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 27.43 / 38
p0 −1.136e−05 ± 1.317e−05
×10⁻³
pull
Entries 39
Mean 0.3736
Std Dev 44.29

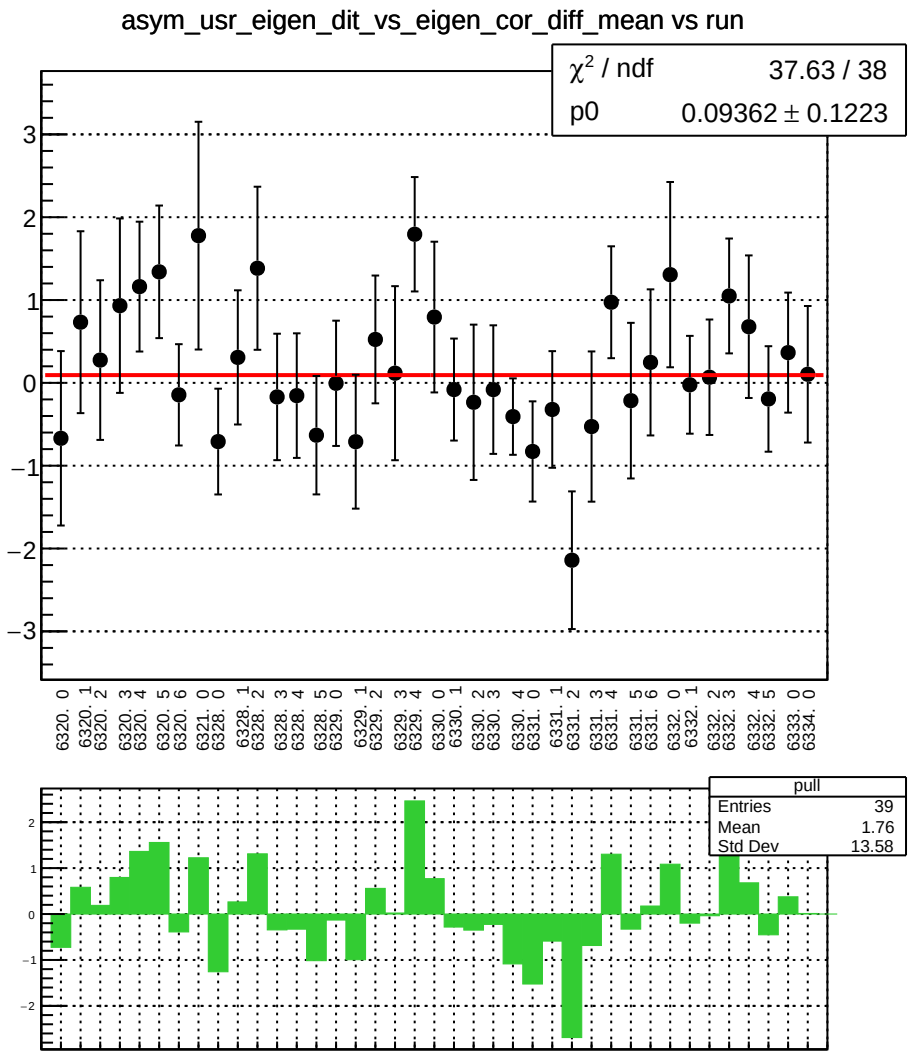

pull1D
Entries 39
Mean −0.00313
Std Dev 0.8386

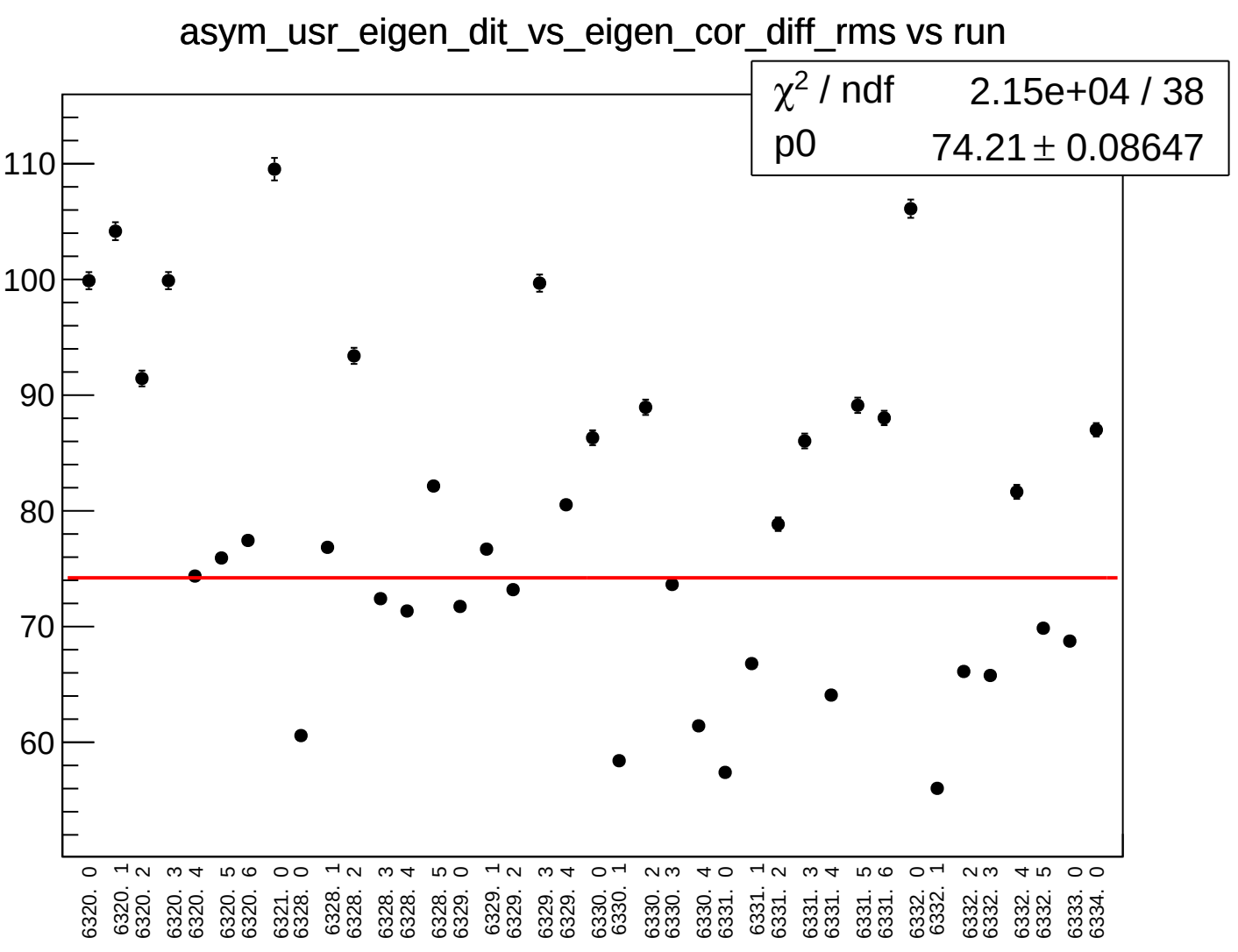

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.503e+04 / 38
p0 0.007806 ± 9.309e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

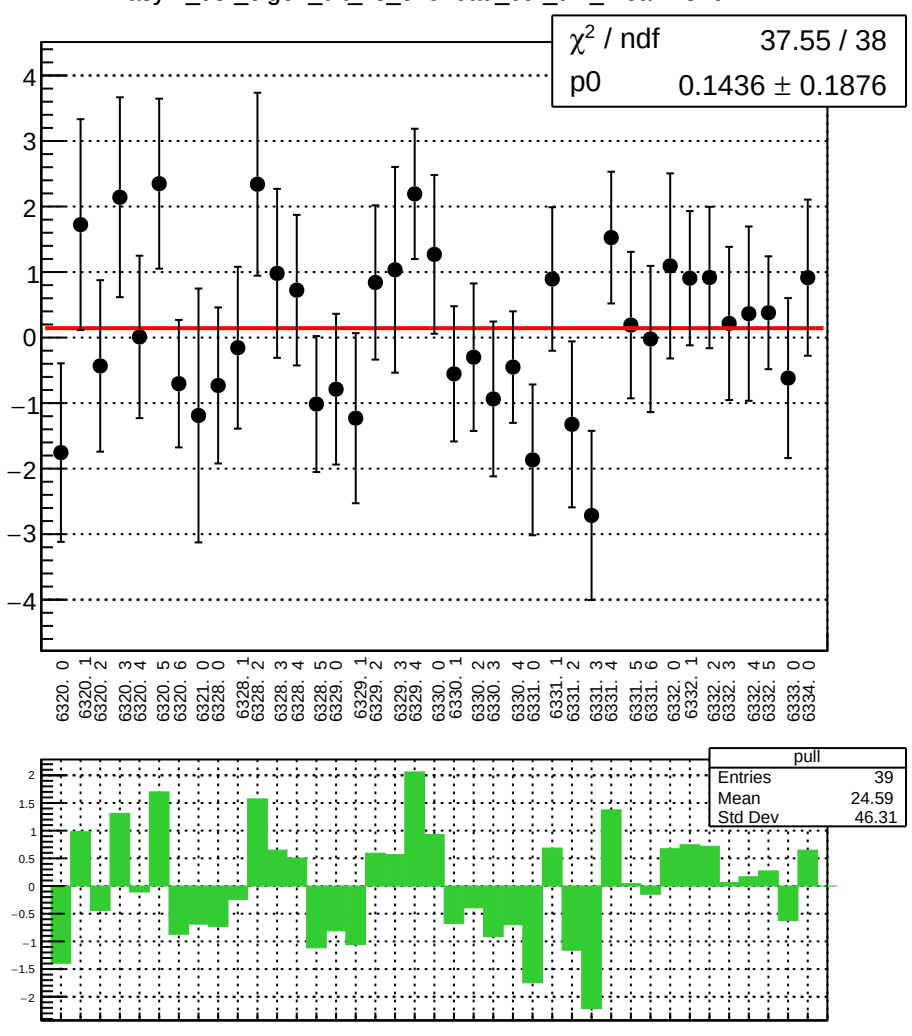

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.63 / 38
p0 0.09362 ± 0.1223
pull
Entries 39
Mean 1.76
Std Dev 13.58

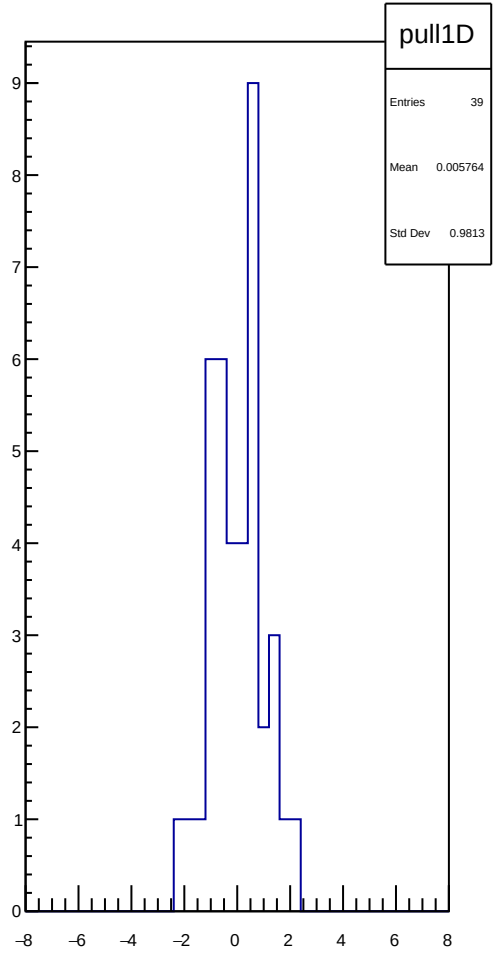

pull1D
Entries 39
Mean 0.06342
Std Dev 0.9802

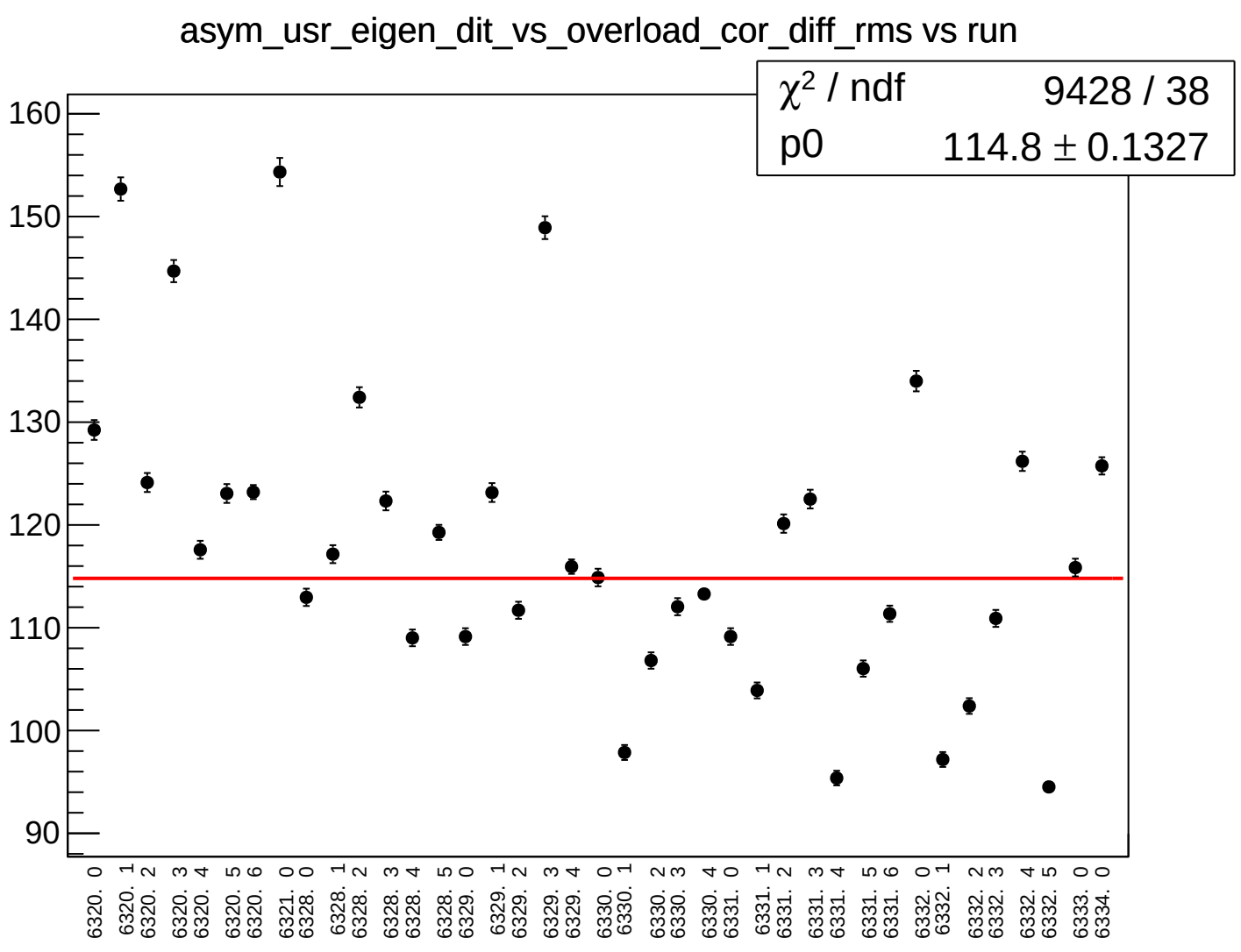

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.15e+04 / 38
p0 74.21 ± 0.08647
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

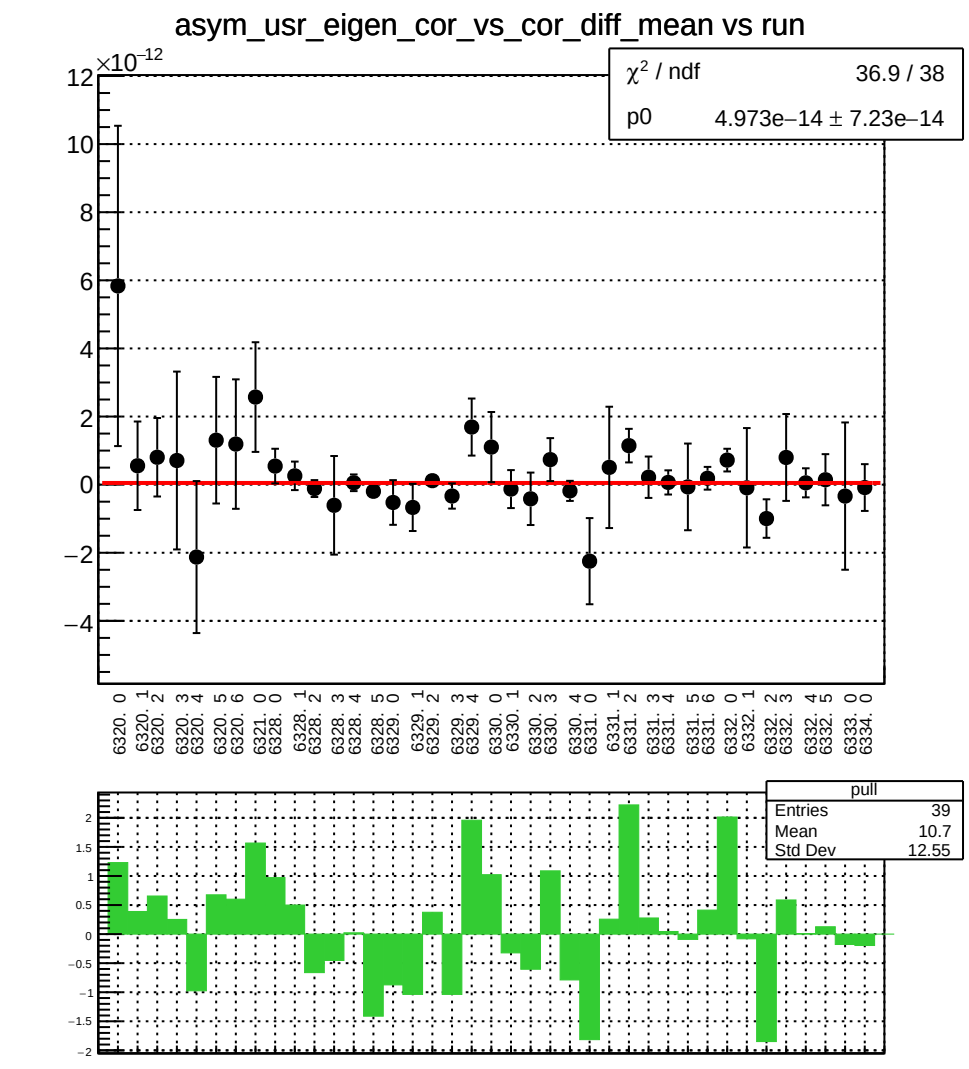

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.63 / 38
p0 0.09362 ± 0.1223
pull
Entries 39
Mean 1.76
Std Dev 13.58
pull1D
Entries 39
Mean 0.06342
Std Dev 0.9802

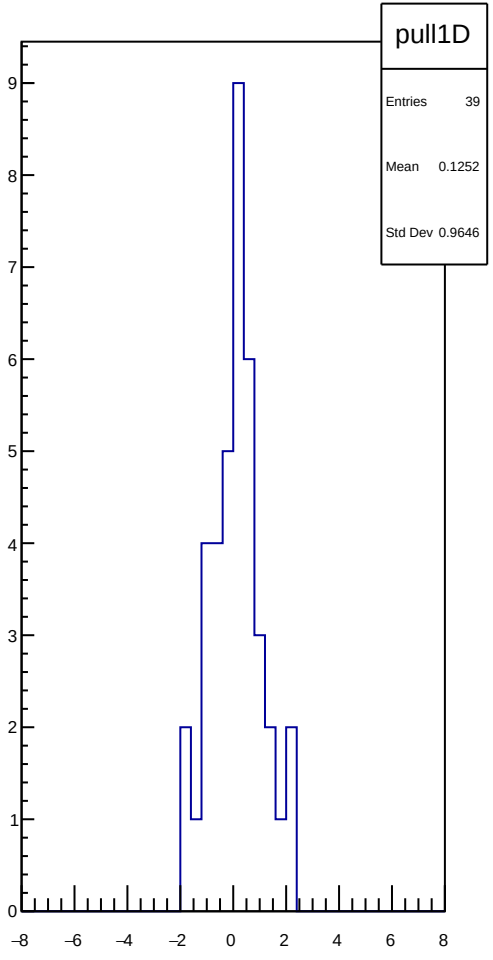

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 38
p0 74.21 ± 0.08647
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

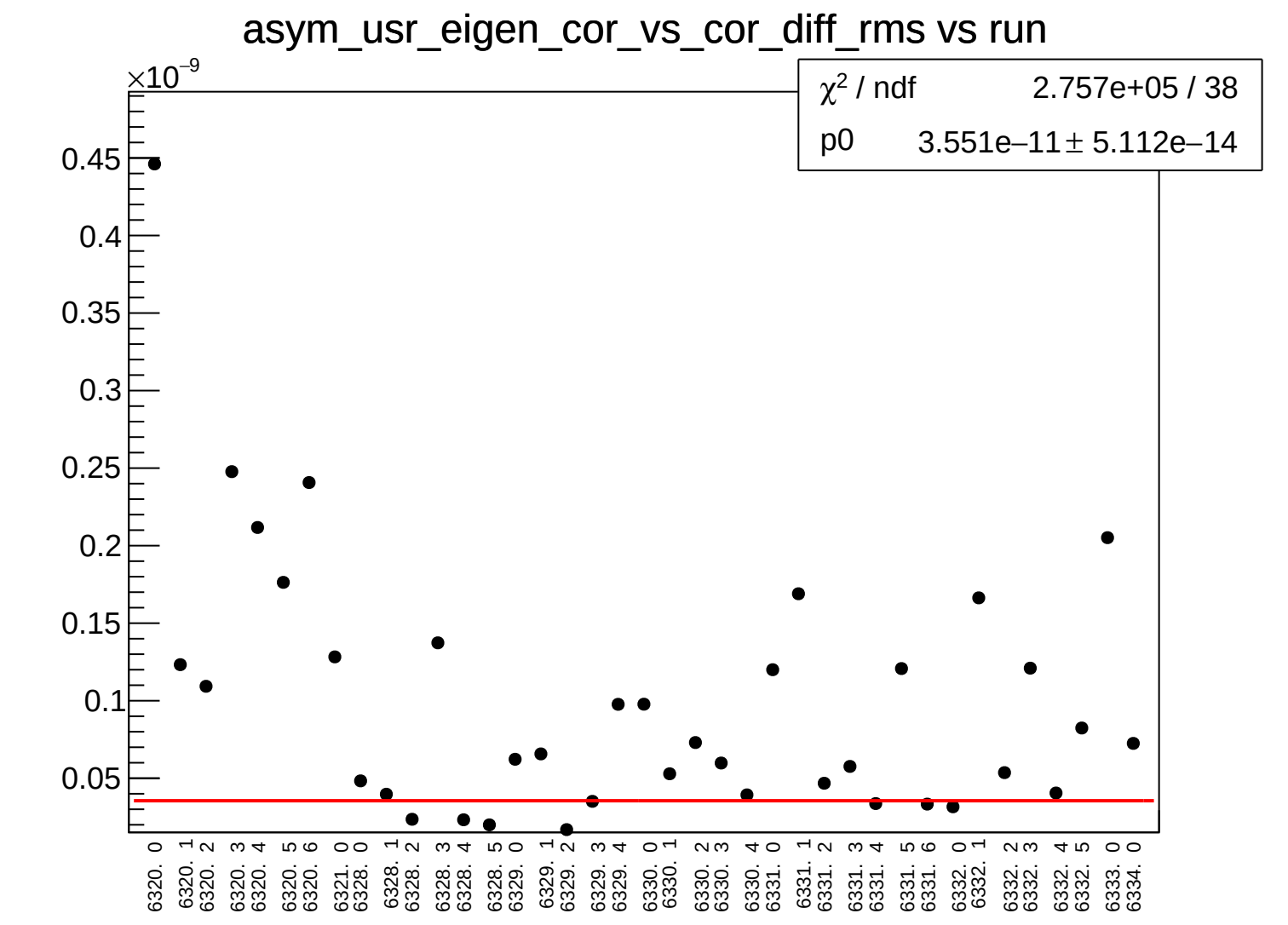

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.55 / 38
p0 0.1436 ± 0.1876
pull
Entries 39
Mean 24.59
Std Dev 46.31

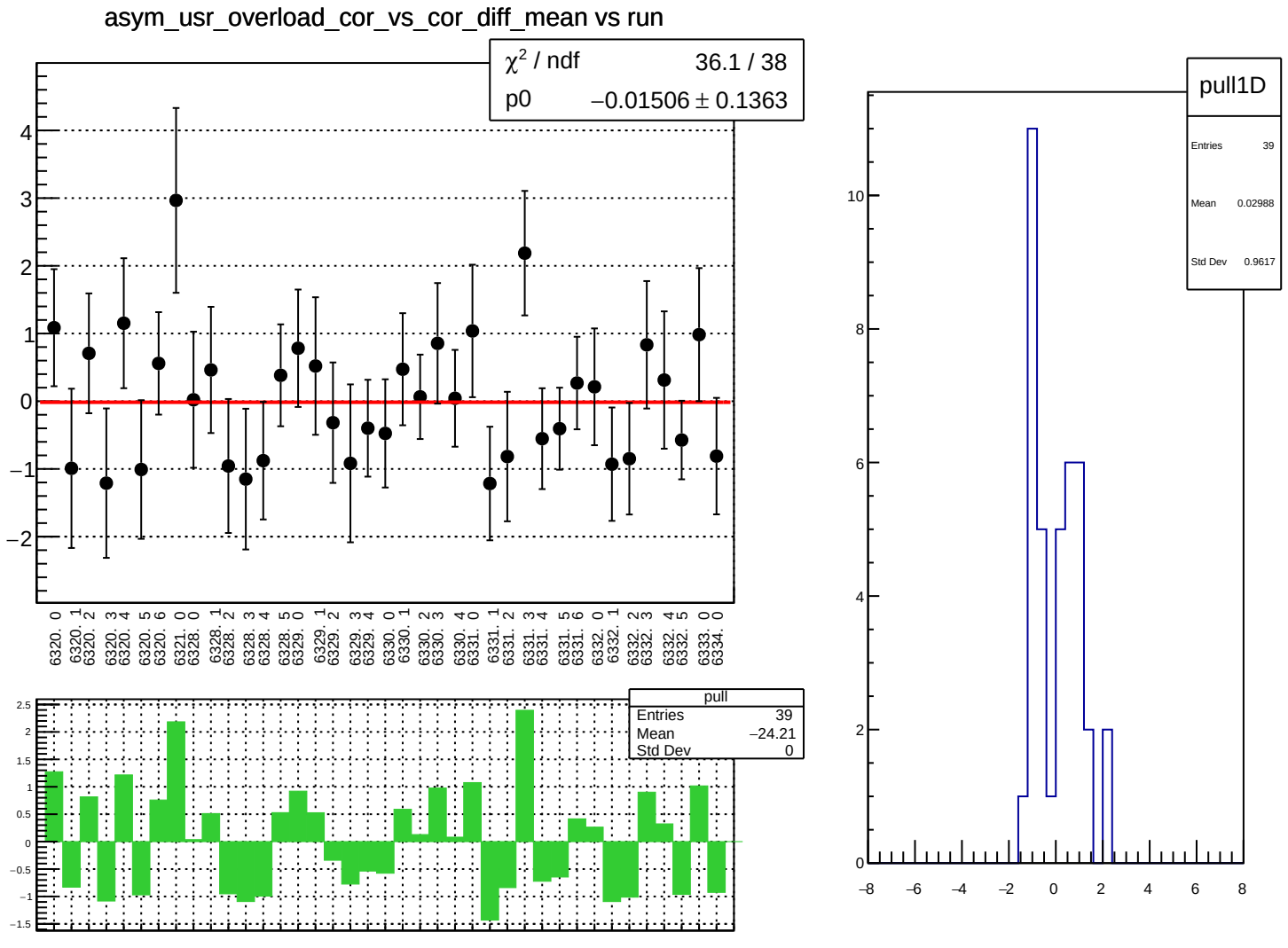

pull1D
Entries 39
Mean 0.005764
Std Dev 0.9813

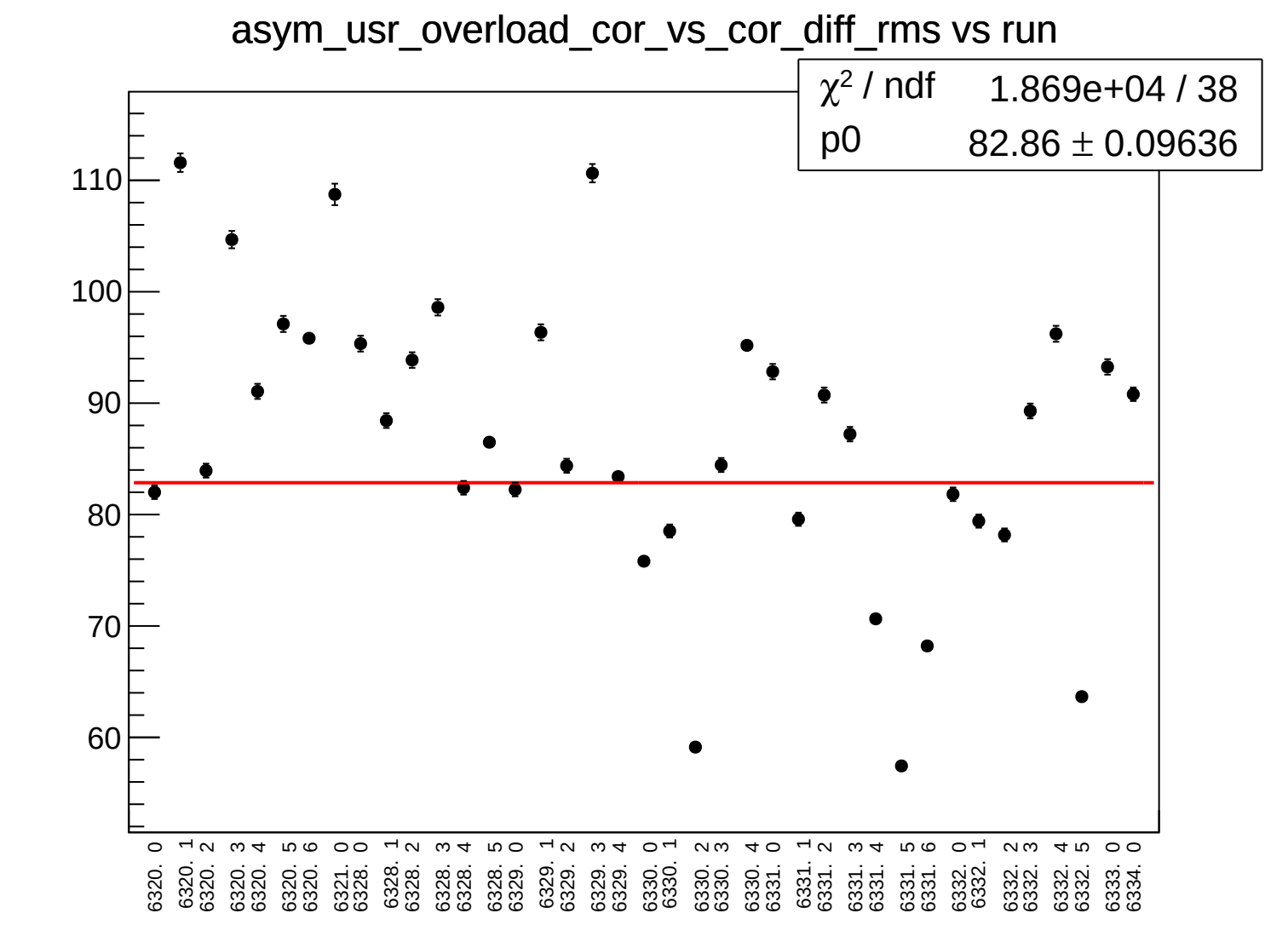

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9428 / 38
p0 114.8 ± 0.1327
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.9 / 38
p0 4.973e−14 ± 7.23e−14
pull
Entries 39
Mean 10.7
Std Dev 12.55

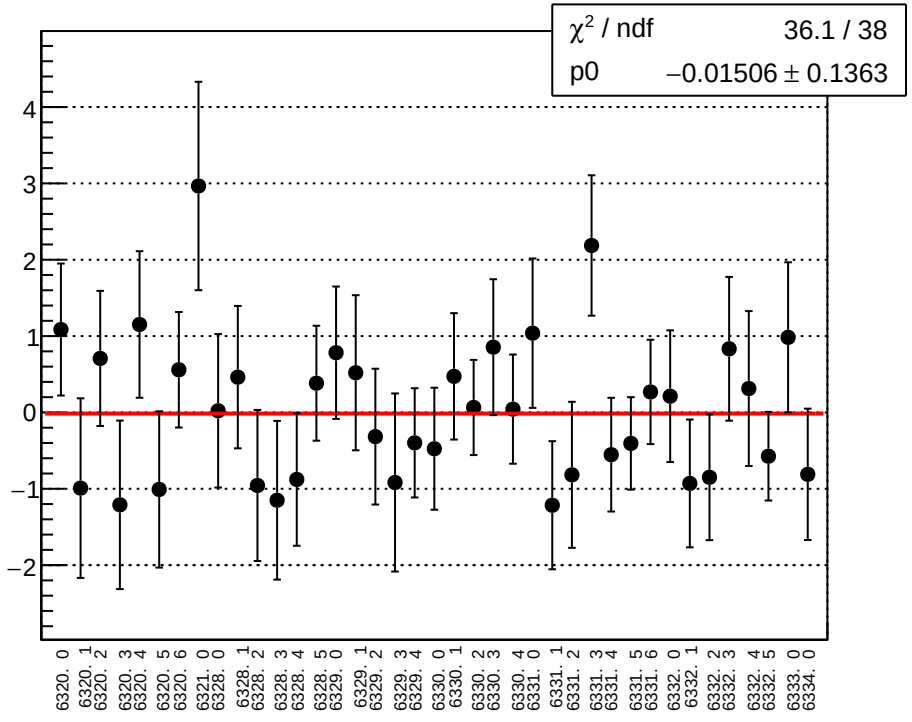

pull1D
Entries 39
Mean 0.1252
Std Dev 0.9646

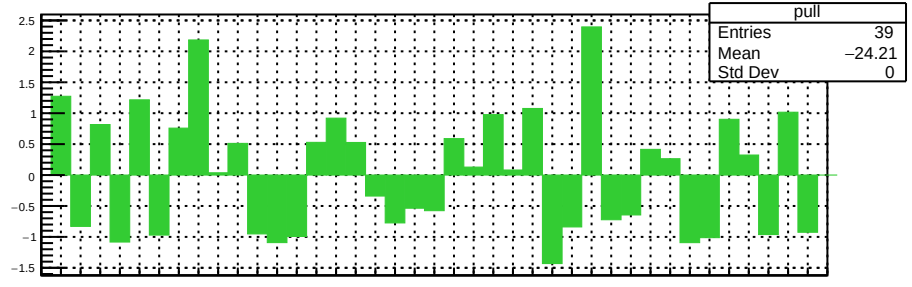

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.757e+05 / 38
p0 3.551e−11 ± 5.112e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

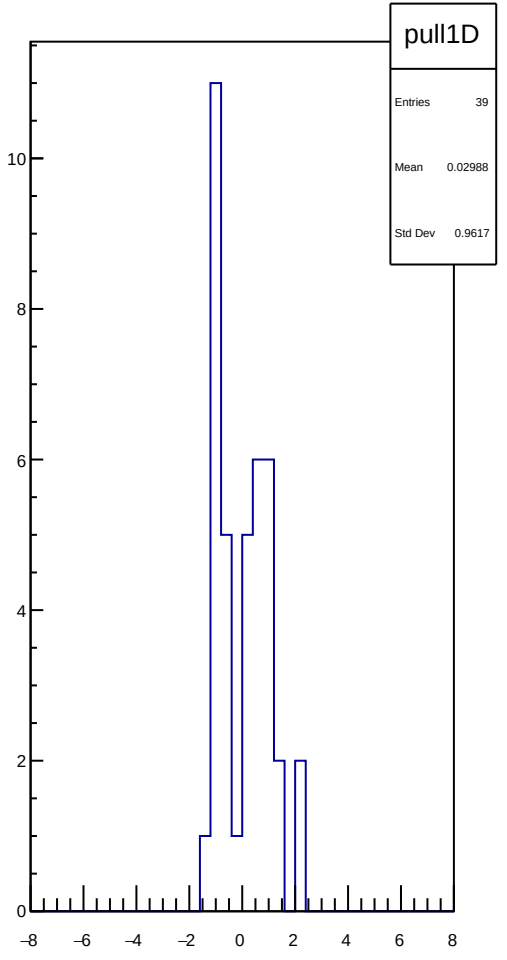

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 36.1 / 38
p0 −0.01506 ± 0.1363
pull
Entries 39
Mean −24.21
Std Dev 0
pull1D
Entries 39
Mean 0.02988
Std Dev 0.9617

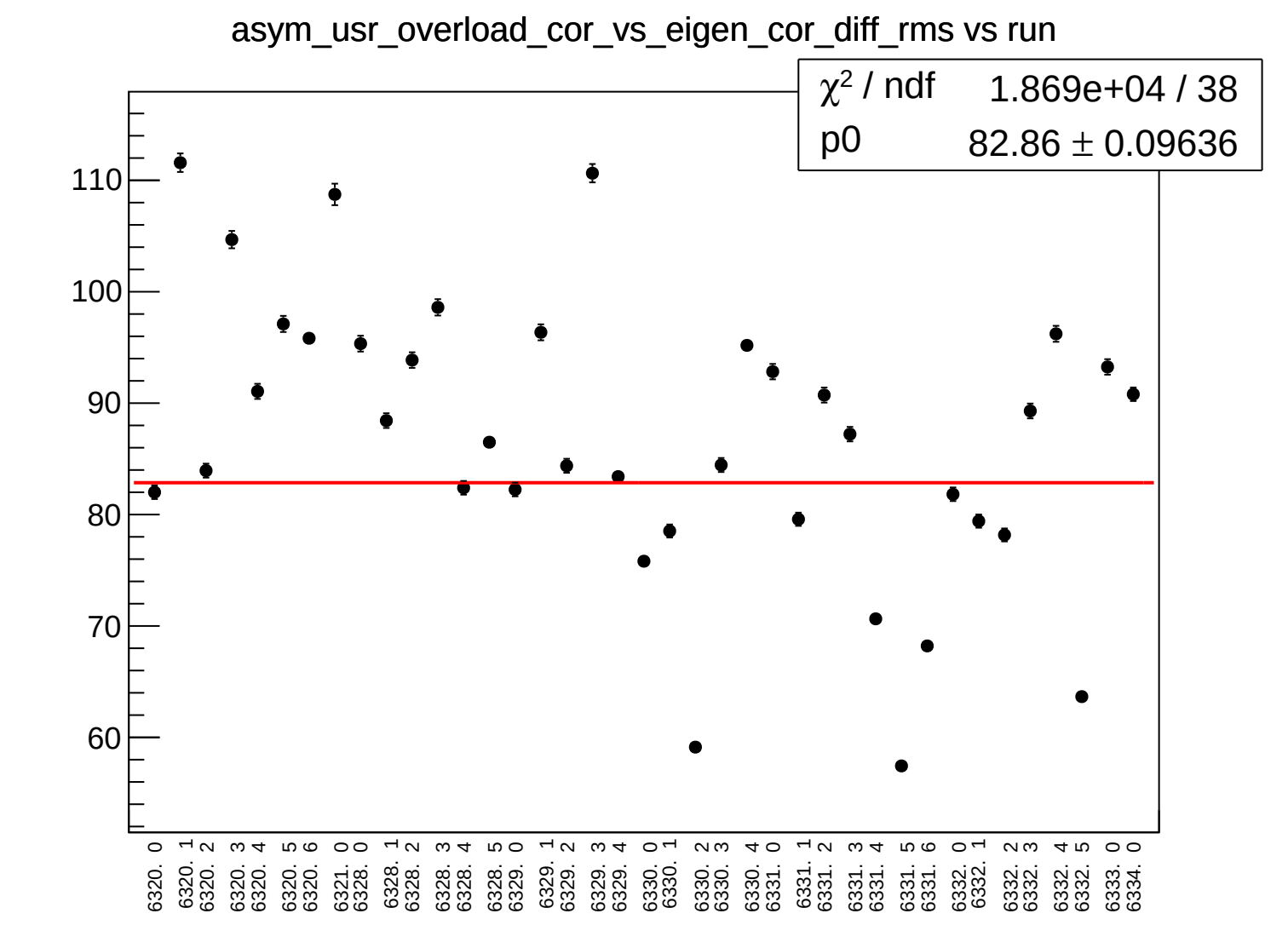

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.869e+04 / 38
p0 82.86 ± 0.09636
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

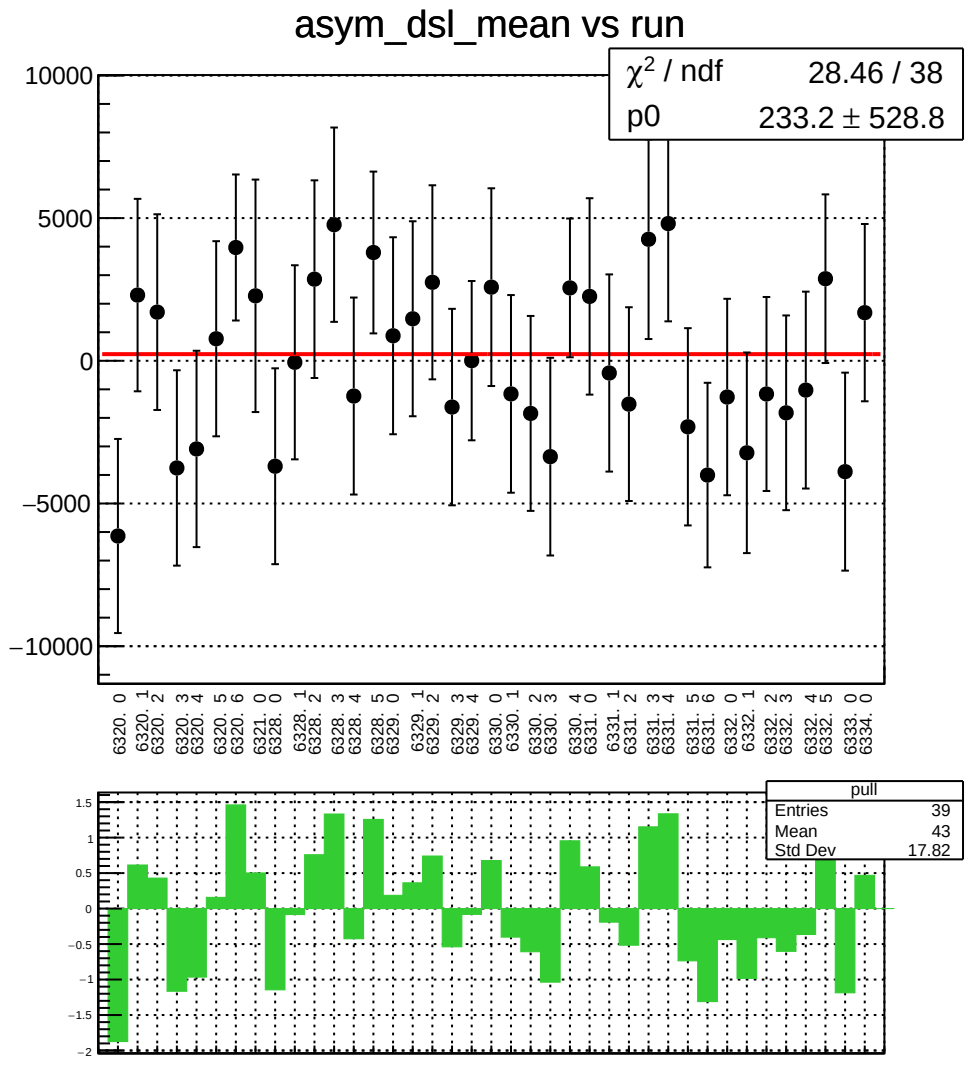
asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run

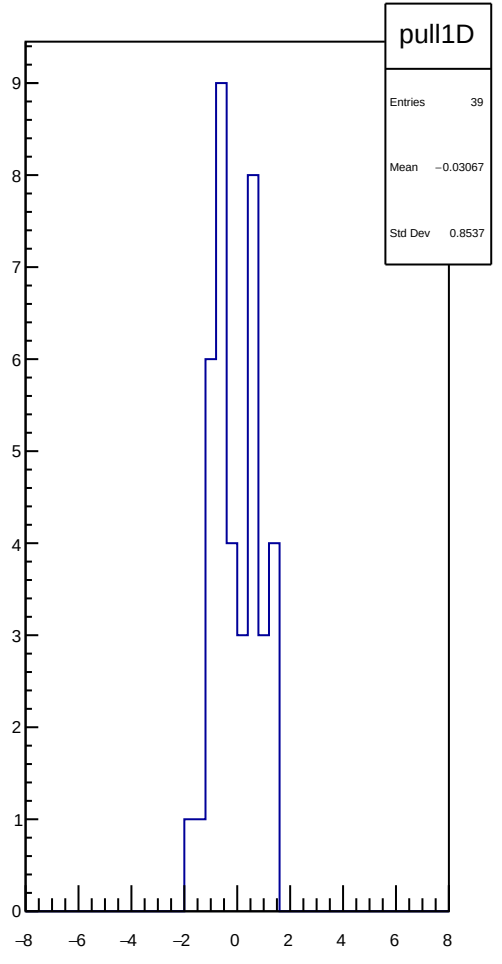


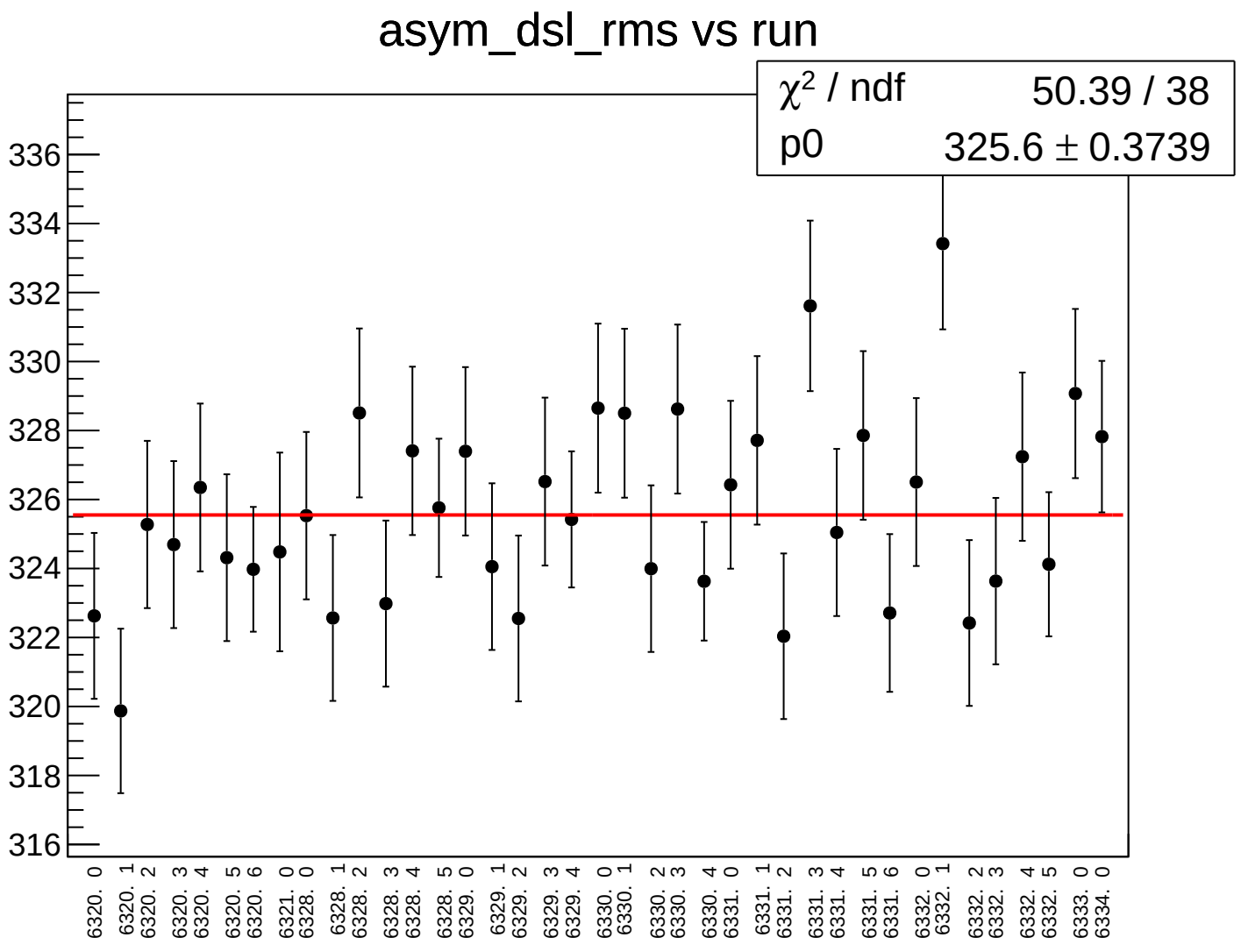


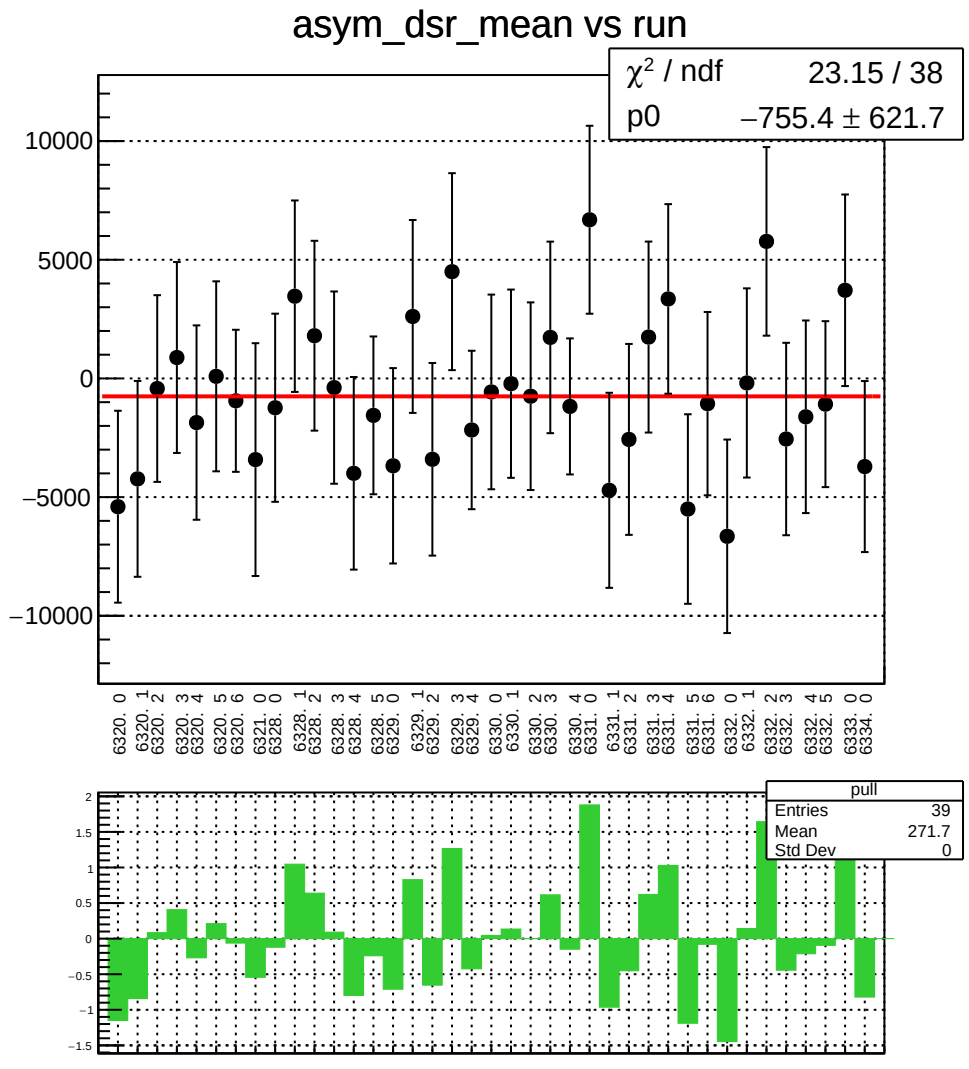


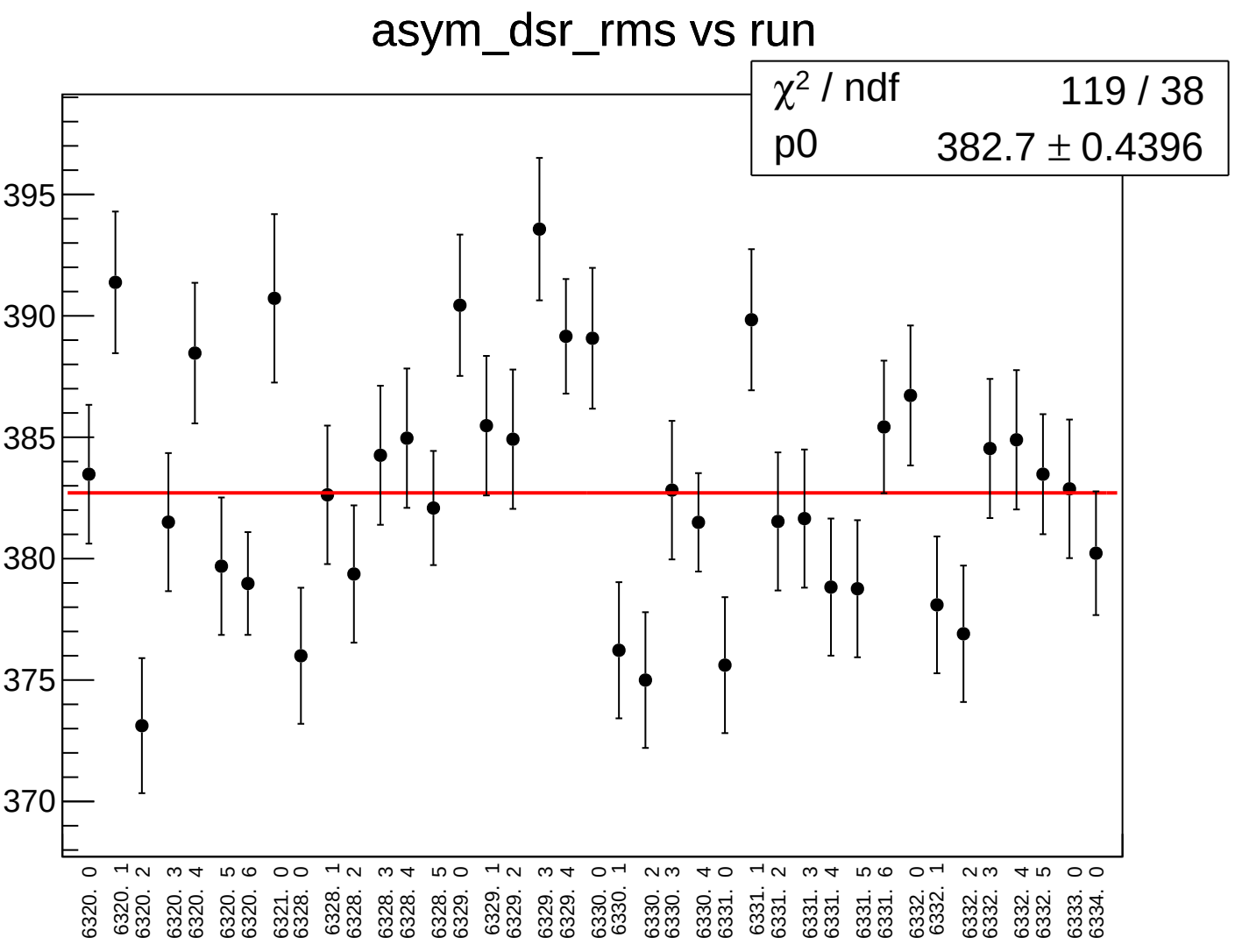

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.869e+04 / 38
p0 82.86 ± 0.09636
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

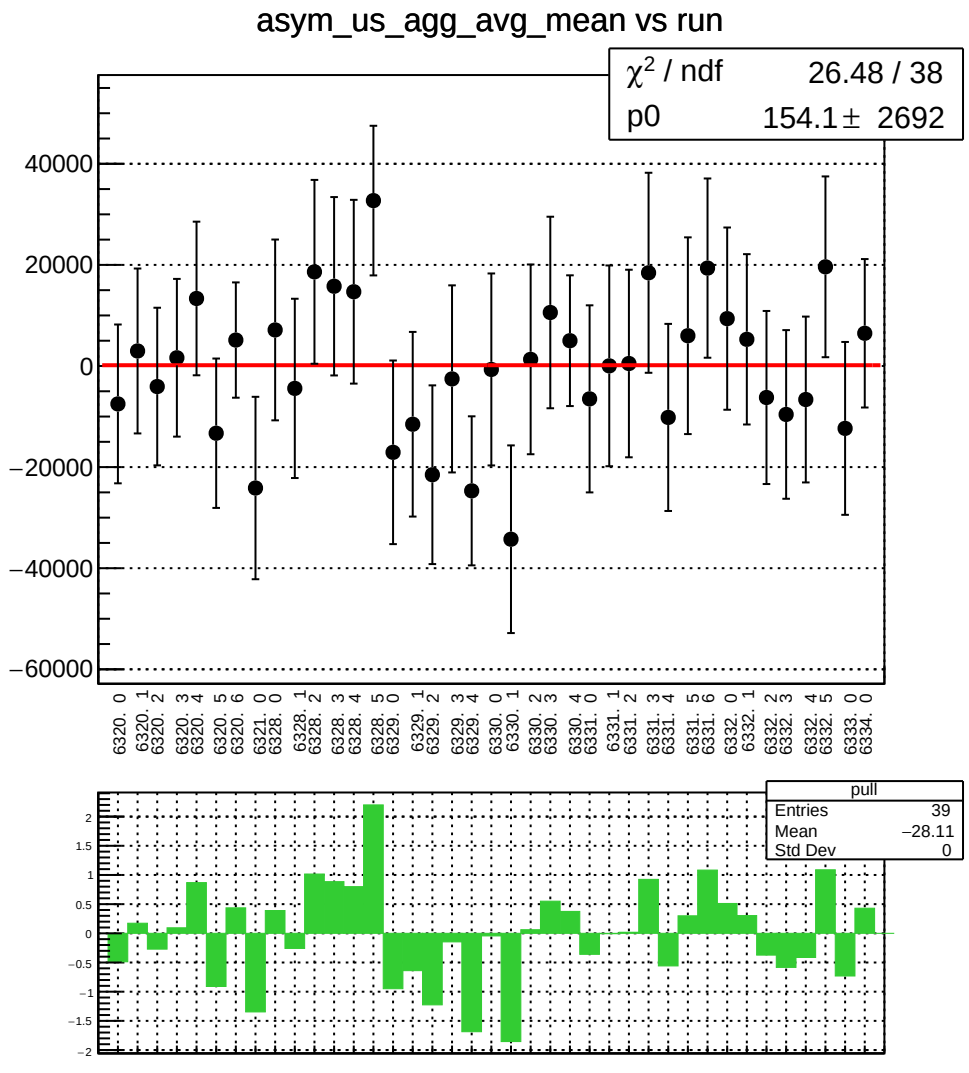

asym_dsl_mean vs run
χ² / ndf 28.46 / 38
p0 233.2 ± 528.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 43
Std Dev 17.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2

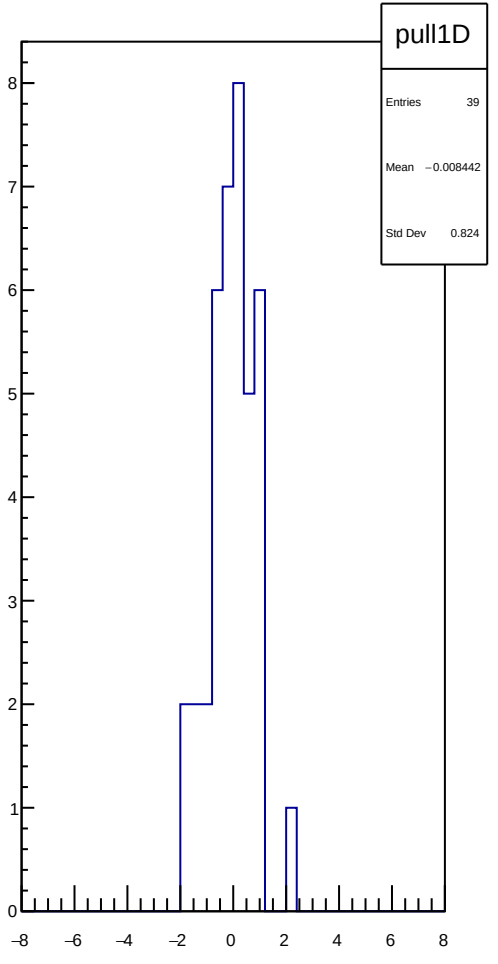

pull1D
Entries 39
Mean −0.03067
Std Dev 0.8537
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

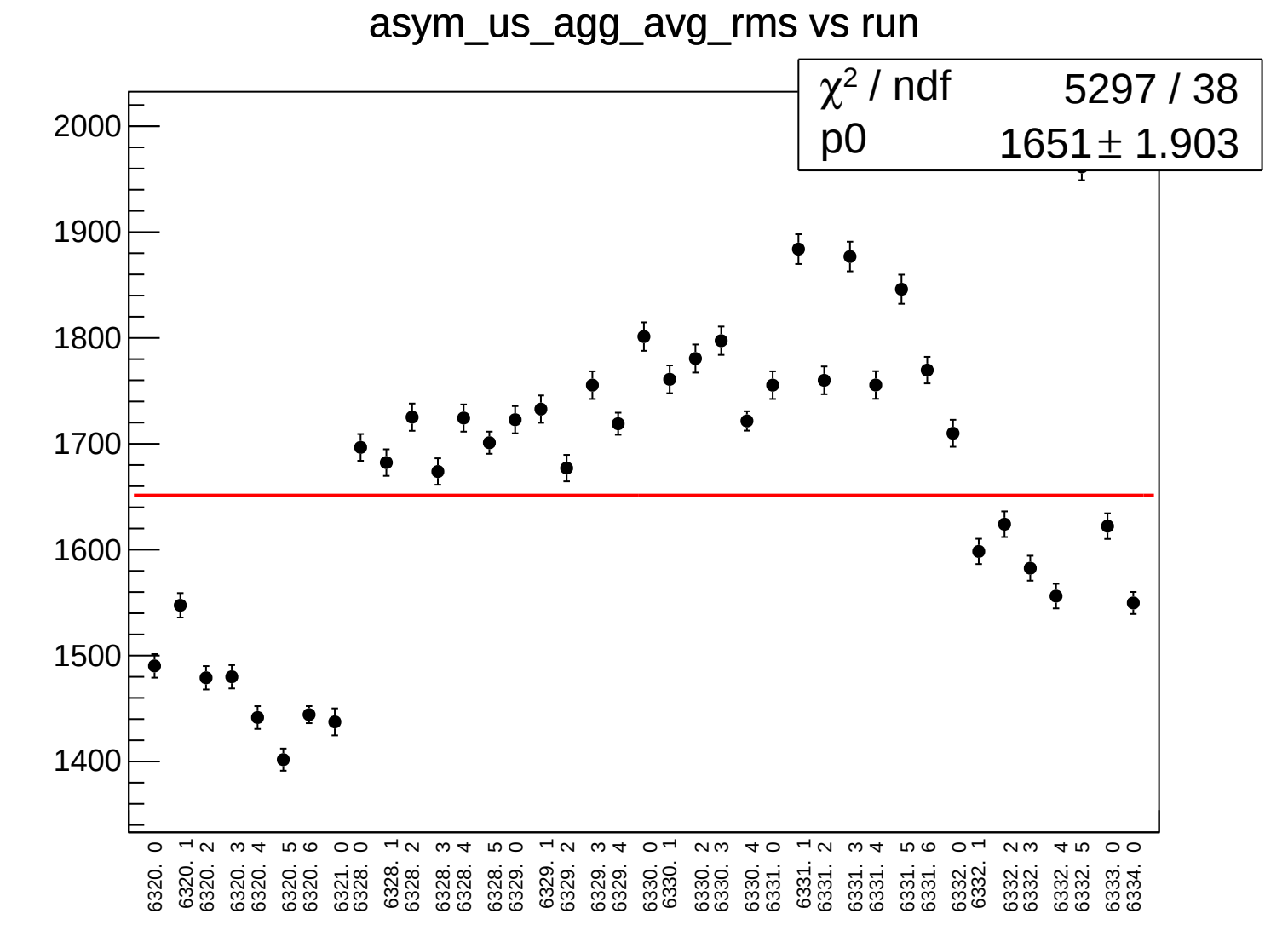

asym_dsl_rms vs run
χ² / ndf 50.39 / 38
p0 325.6 ± 0.3739
336
334
332
330
328
326
324
322
320
318
316
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

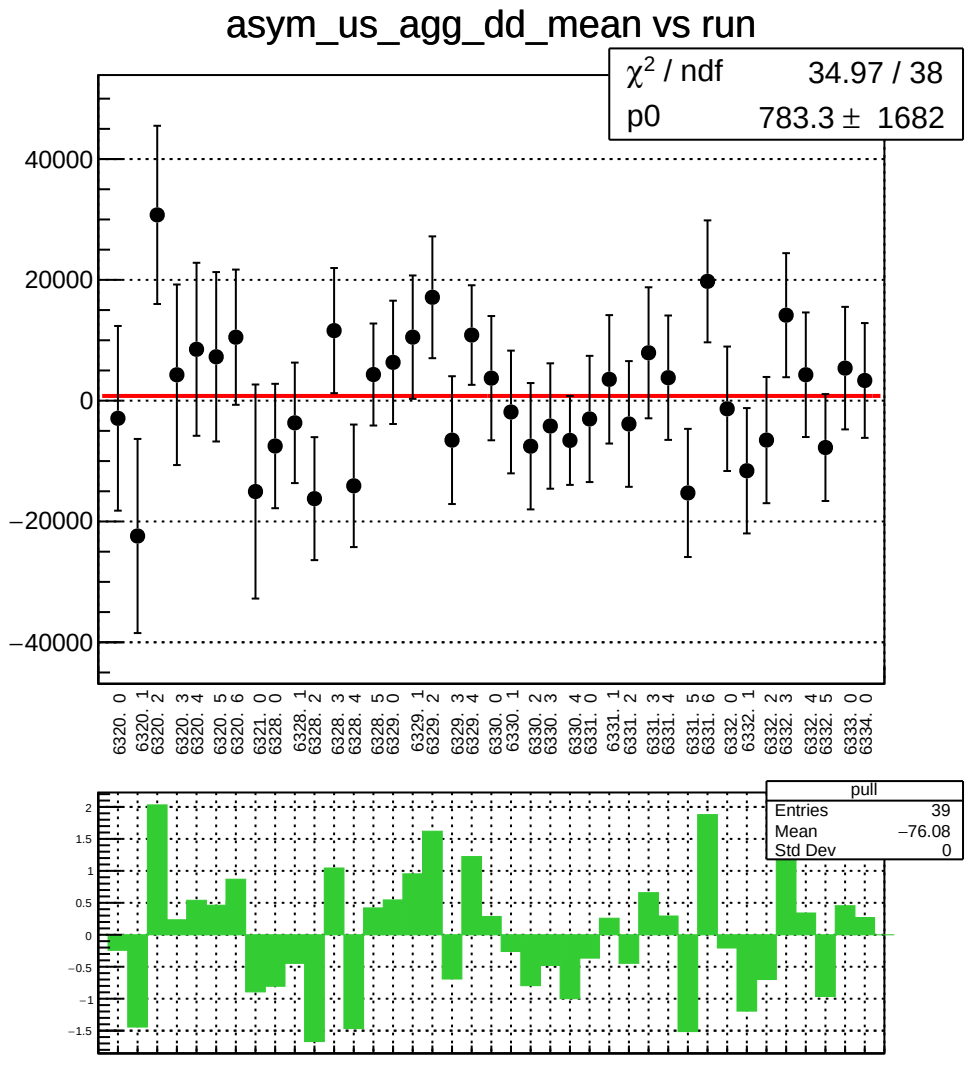

asym_dsr_mean vs run
χ² / ndf 23.15 / 38
p0 −755.4 ± 621.7
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 271.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.003308
Std Dev 0.7705
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

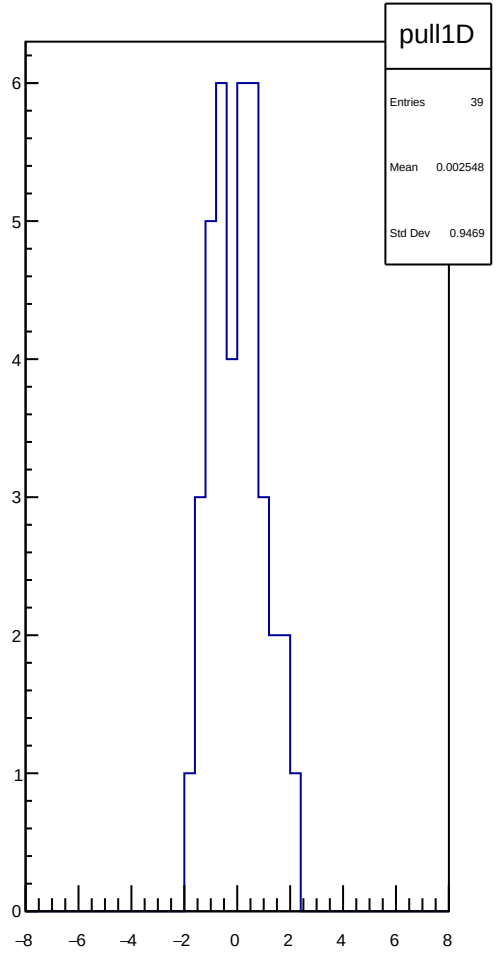

asym_dsr_rms vs run
χ² / ndf 119 / 38
p0 382.7 ± 0.4396
395
390
385
380
375
370
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

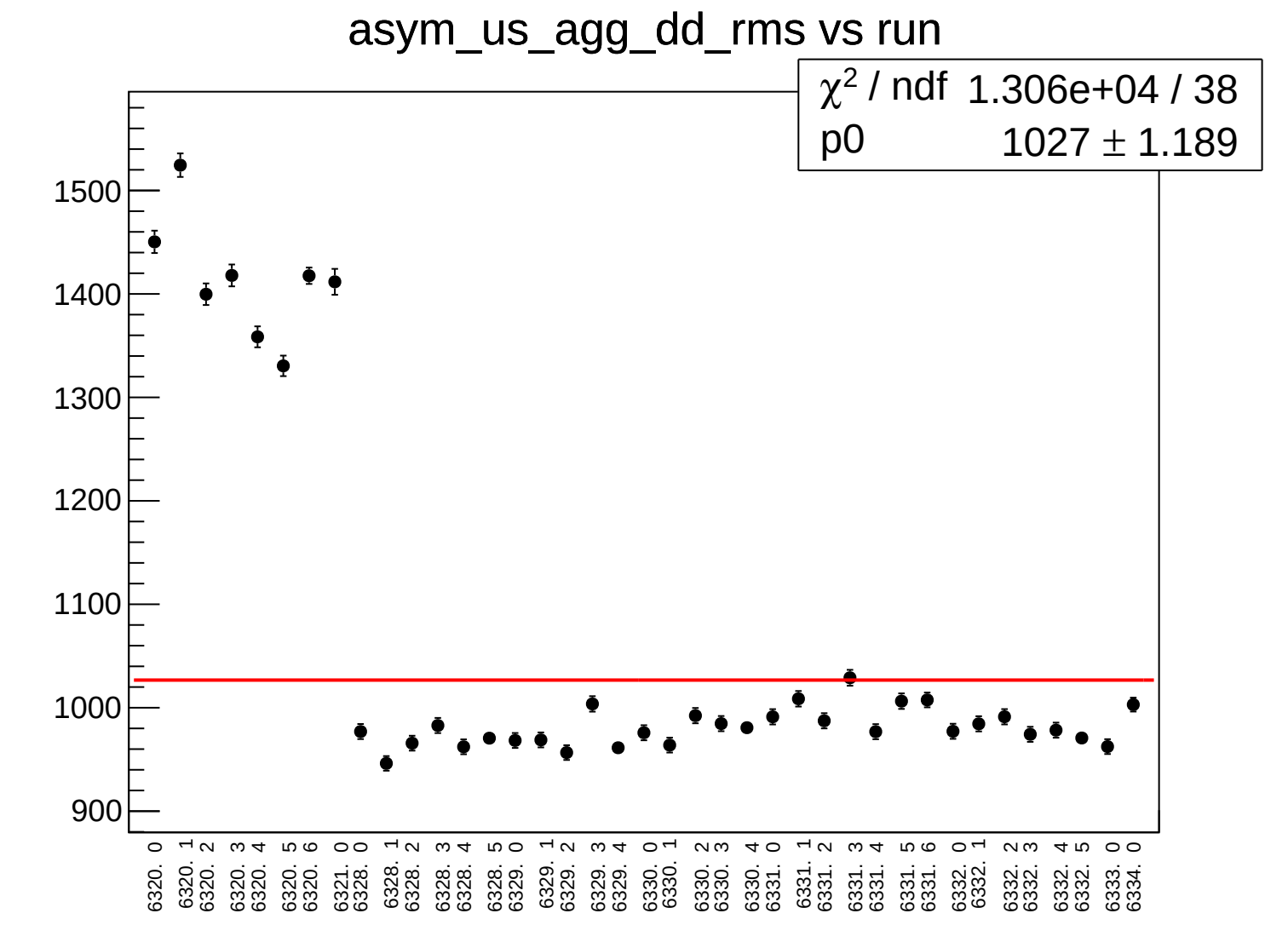

asym_us_agg_avg_mean vs run
χ² / ndf 26.48 / 38
p0 154.1± 2692
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

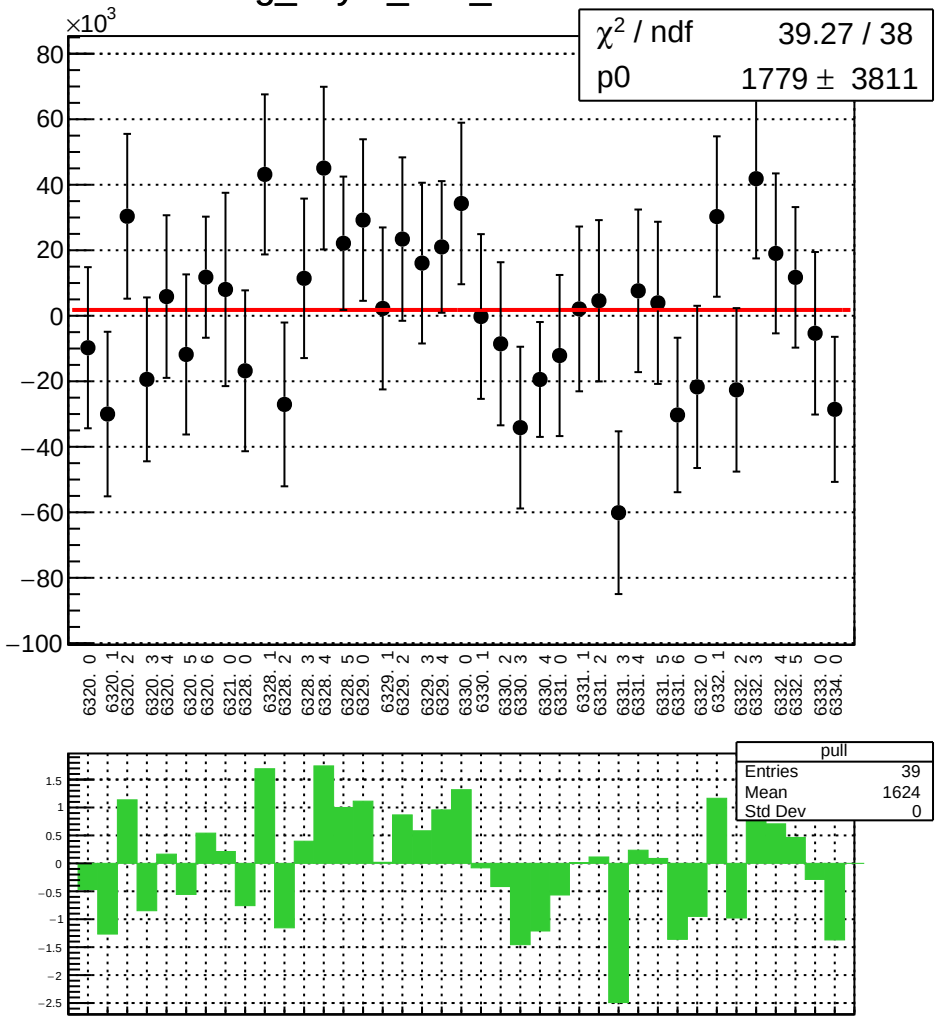

pull1D
Entries 39
Mean −0.008442
Std Dev 0.824
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

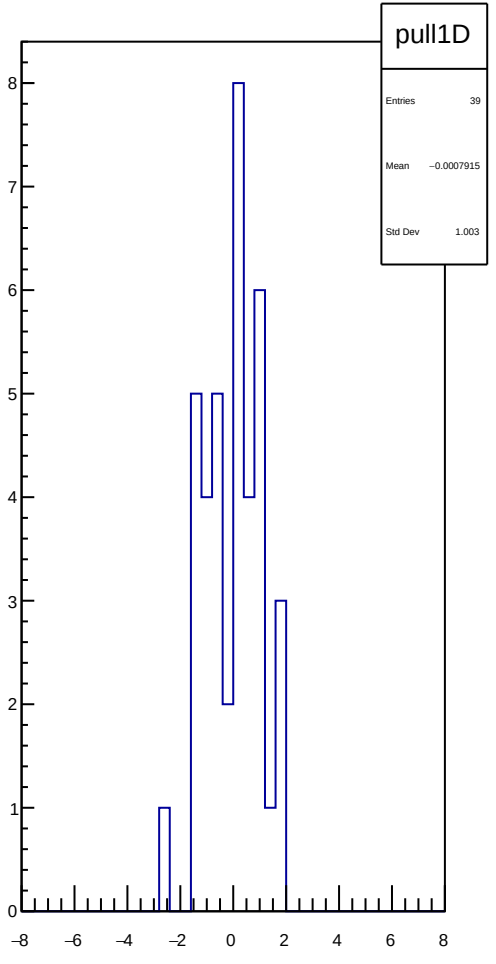

asym_us_agg_avg_rms vs run
χ² / ndf 5297 / 38
p0 1651 ± 1.903
2000
1900
1800
1700
1600
1500
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

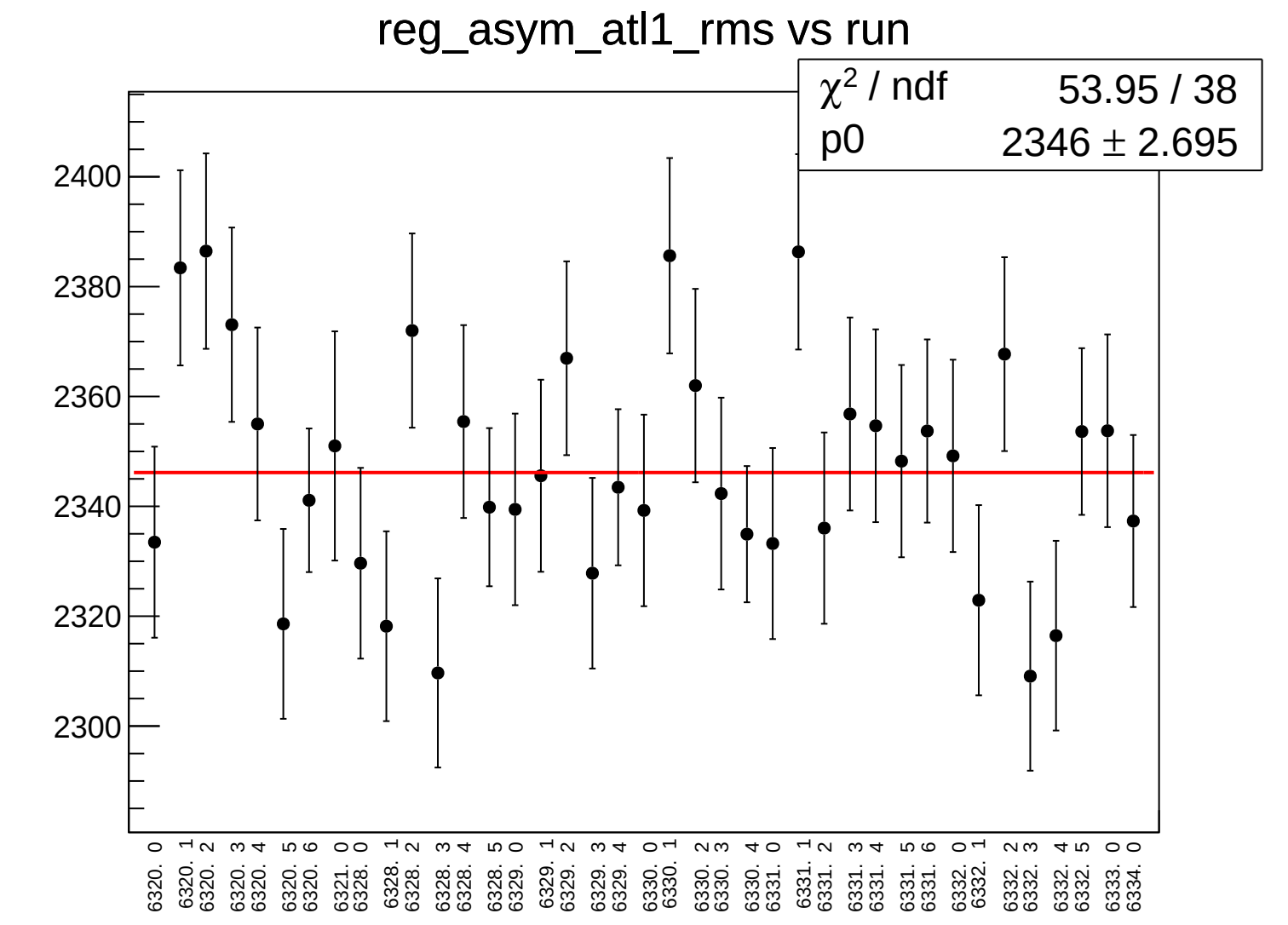

asym_us_agg_dd_mean vs run
χ² / ndf 34.97 / 38
p0 783.3 ± 1682
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −76.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

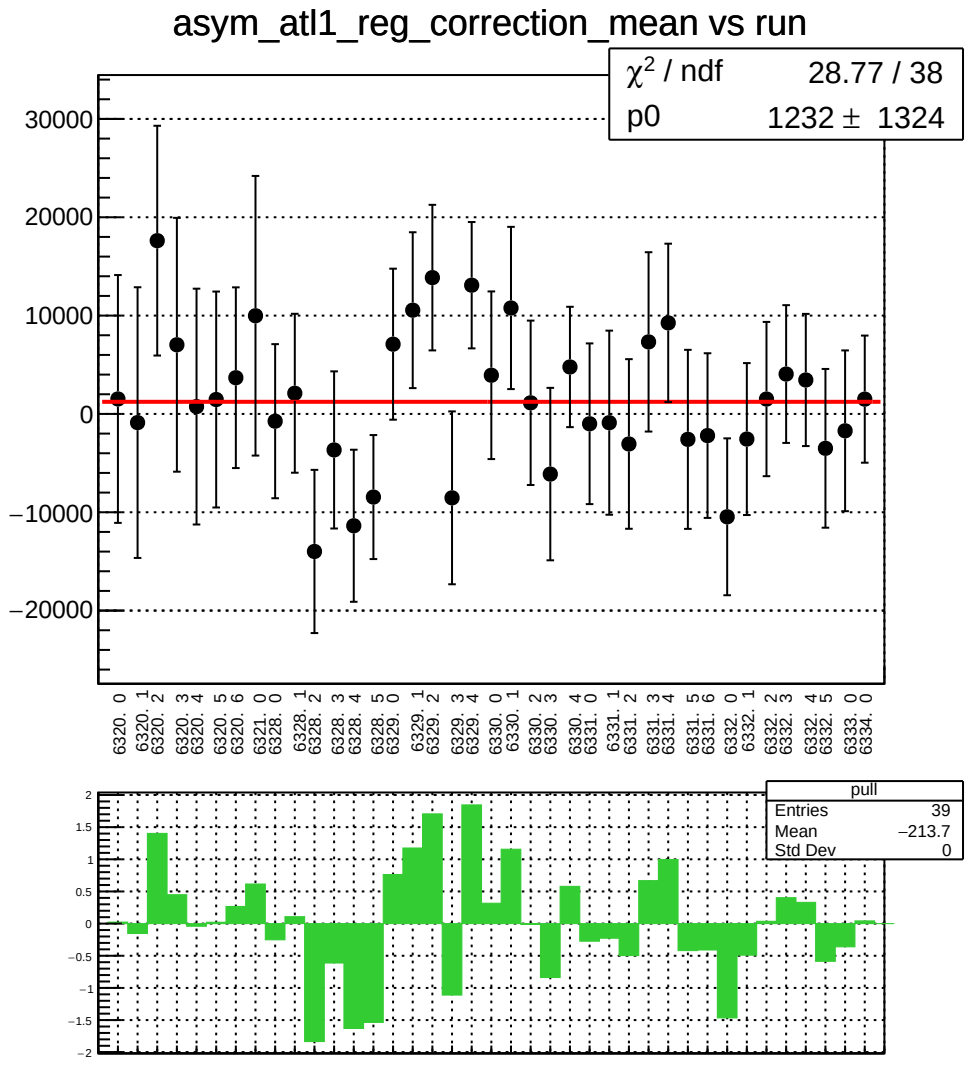

pull1D
Entries 39
Mean 0.002548
Std Dev 0.9469
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

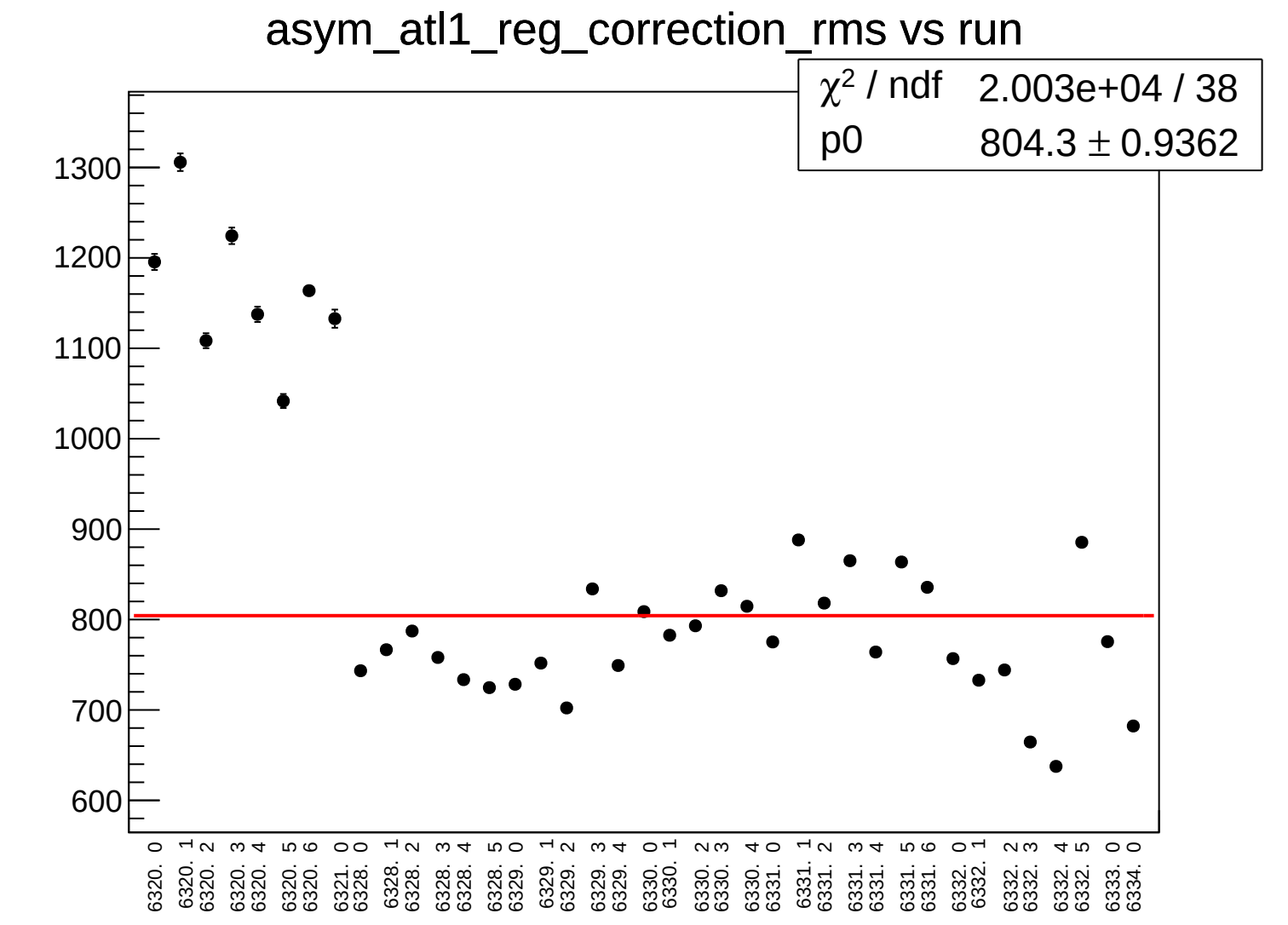

asym_us_agg_dd_rms vs run
χ² / ndf 1.306e+04 / 38
p0 1027 ± 1.189
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

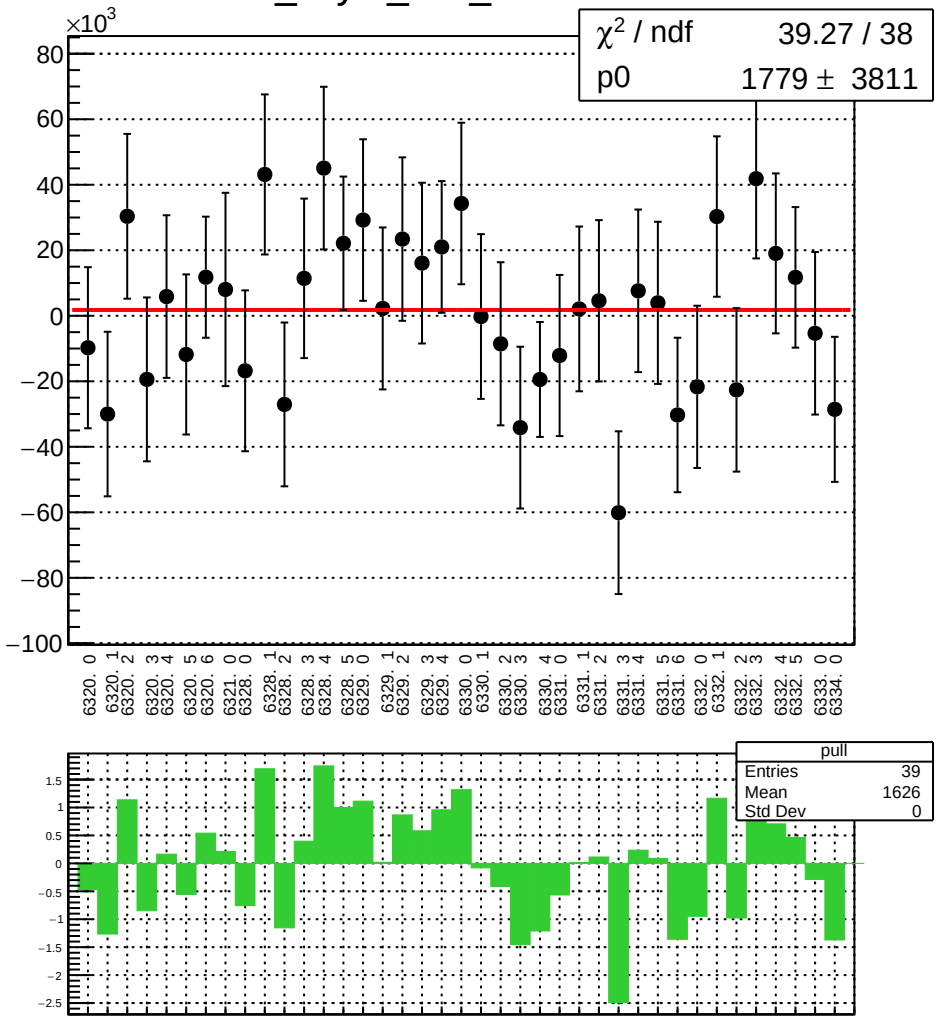

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 39.27 / 38
p0 1779 ± 3811
pull
Entries 39
Mean 1624
Std Dev 0

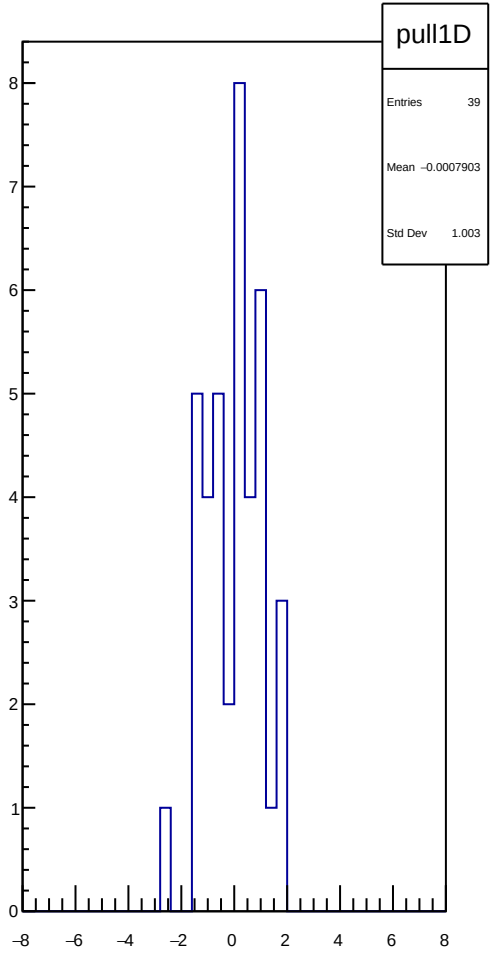

pull1D
Entries 39
Mean −0.0007915
Std Dev 1.003

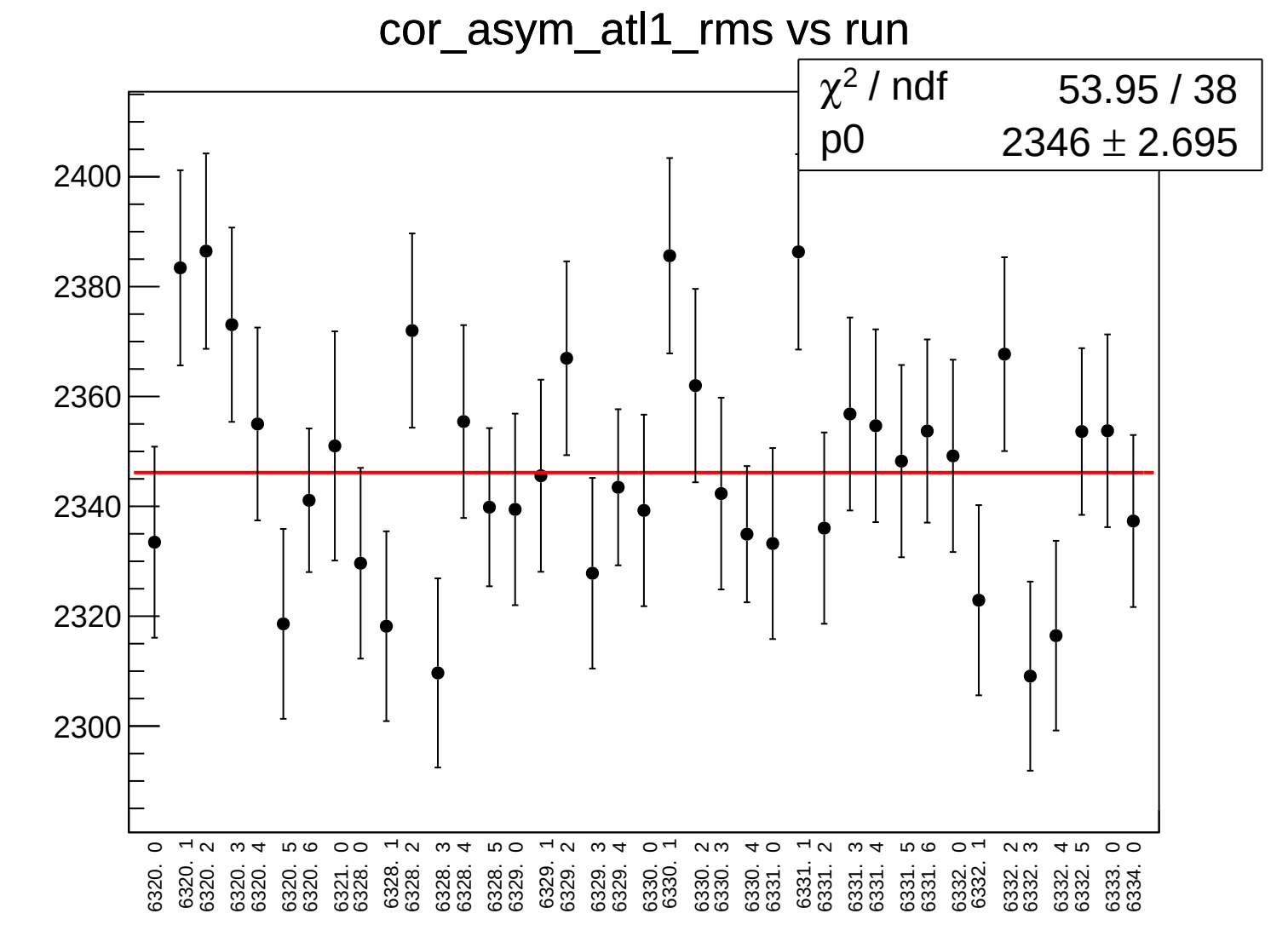

reg_asym_atl1_rms vs run
χ² / ndf 53.95 / 38
p0 2346 ± 2.695
2400
2380
2360
2340
2320
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

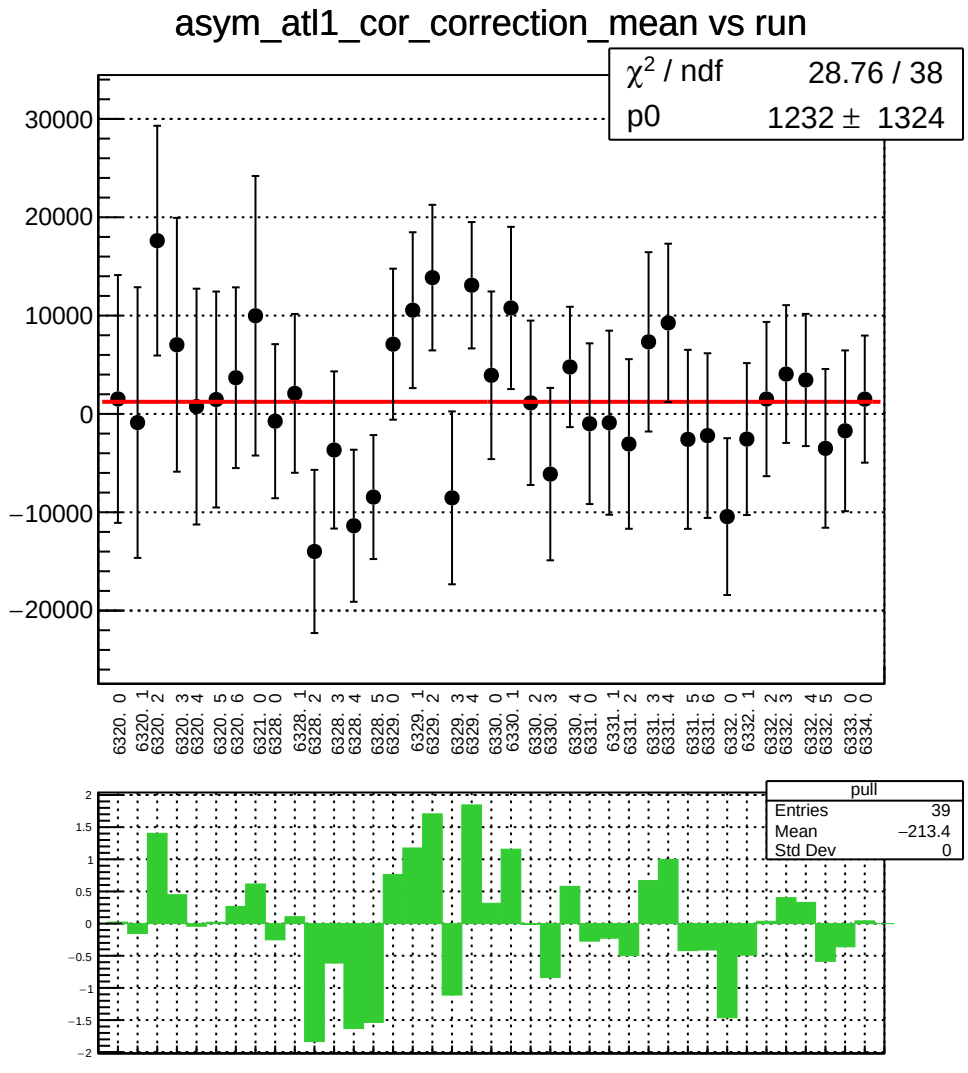

asym_atl1_reg_correction_mean vs run
χ² / ndf 28.77 / 38
p0 1232 ± 1324
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −213.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.003985
Std Dev 0.8588
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

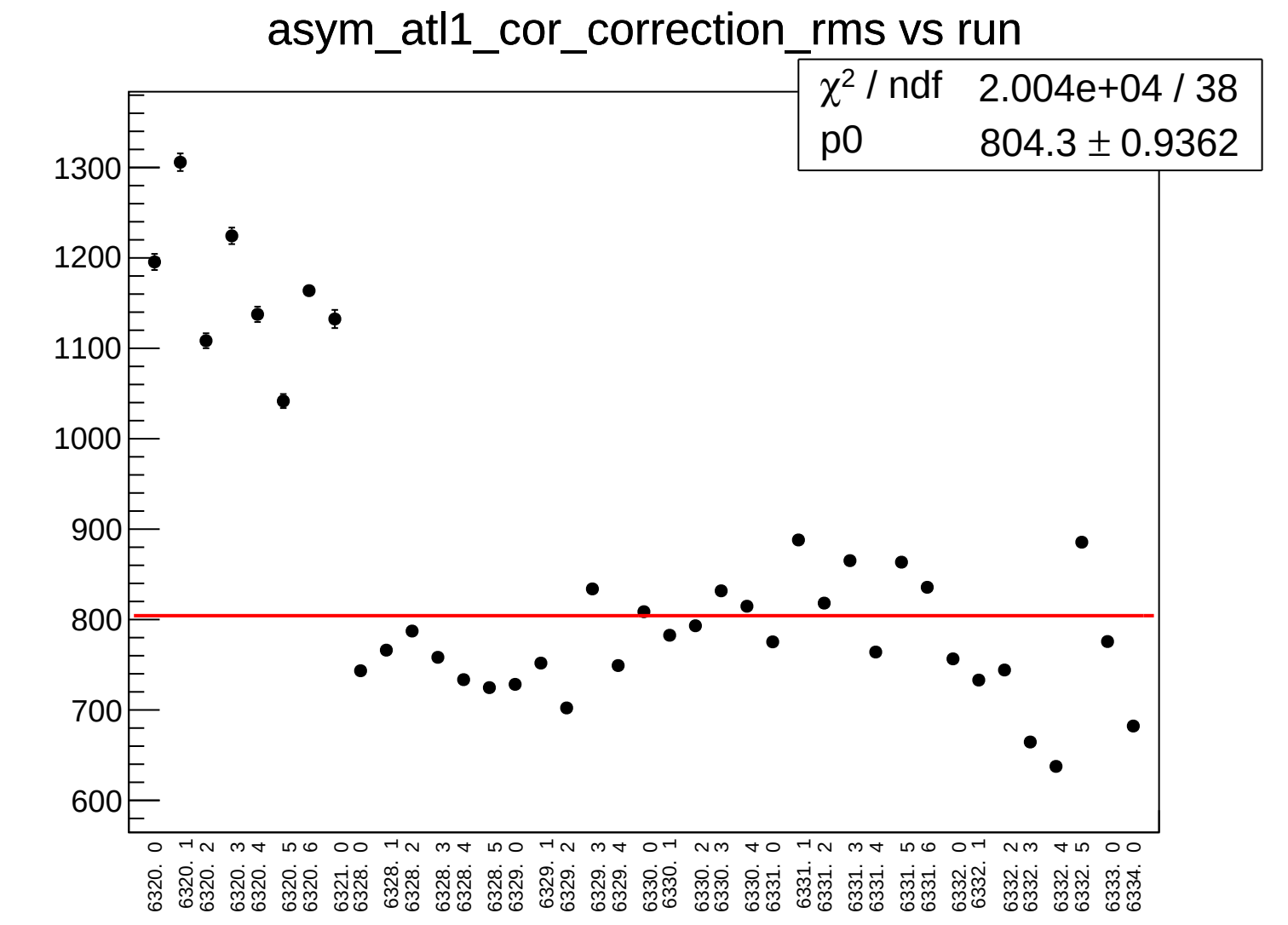

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.003e+04 / 38
p0 804.3 ± 0.9362
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

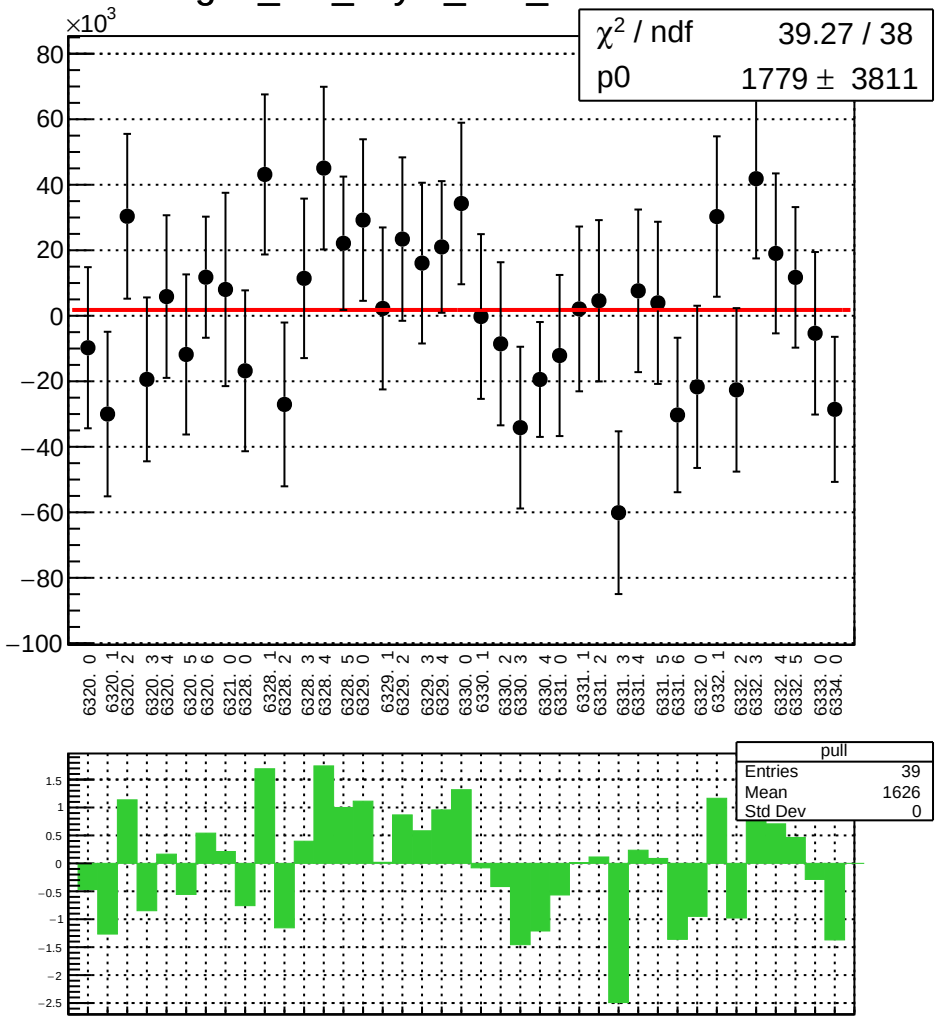

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 39.27 / 38
p0 1779 ± 3811
pull
Entries 39
Mean 1626
Std Dev 0

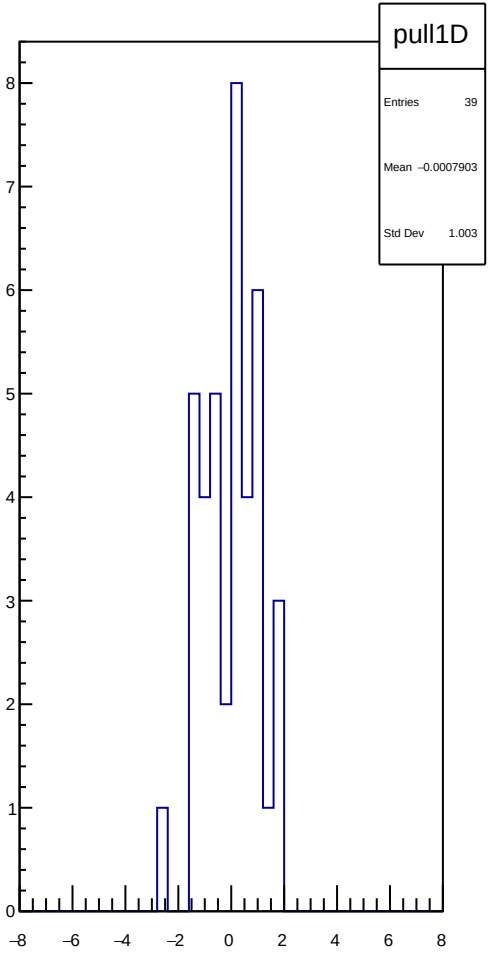

pull1D
Entries 39
Mean −0.0007903
Std Dev 1.003

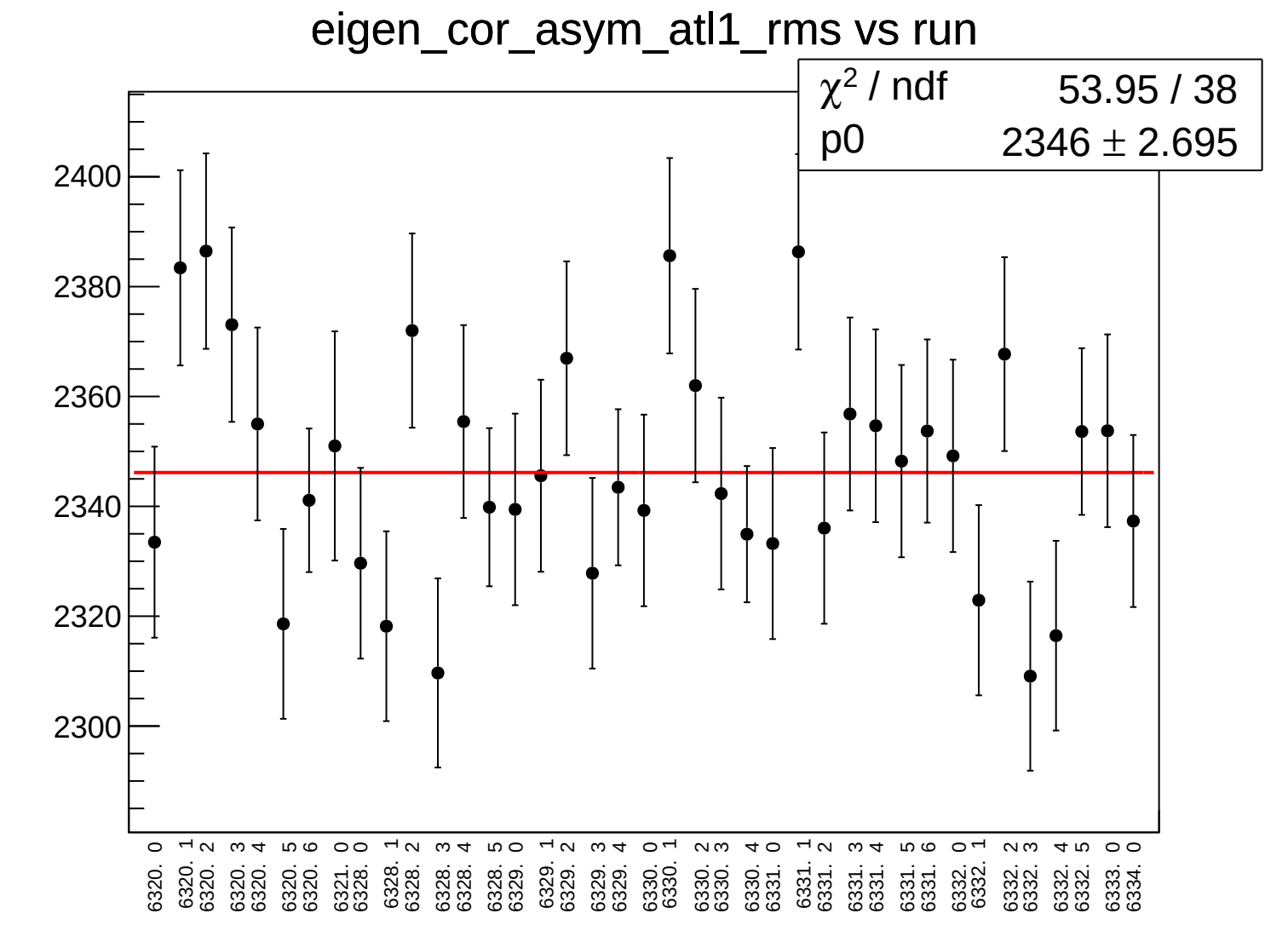

cor_asym_atl1_rms vs run
χ² / ndf 53.95 / 38
p0 2346 ± 2.695
2400
2380
2360
2340
2320
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

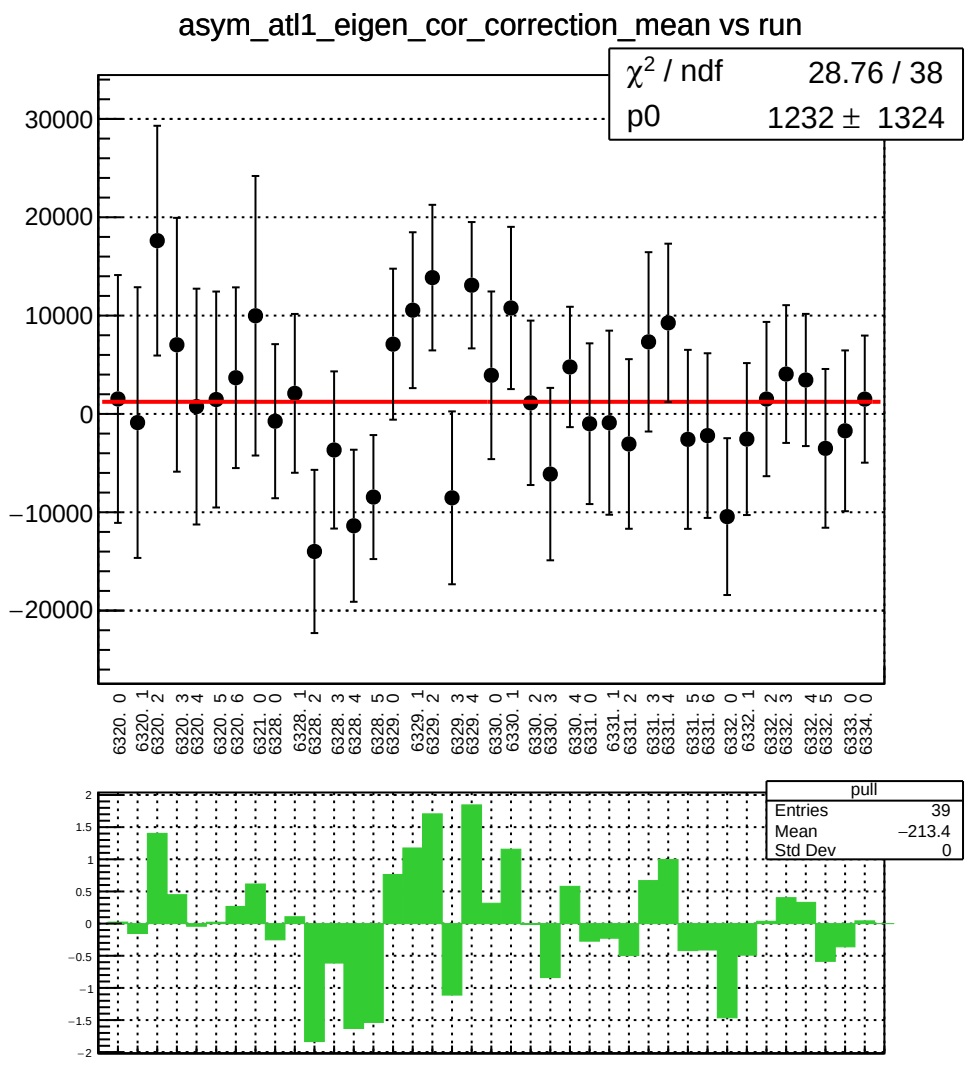

asym_atl1_cor_correction_mean vs run
χ² / ndf 28.76 / 38
p0 1232 ± 1324
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −213.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.003986
Std Dev 0.8587
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

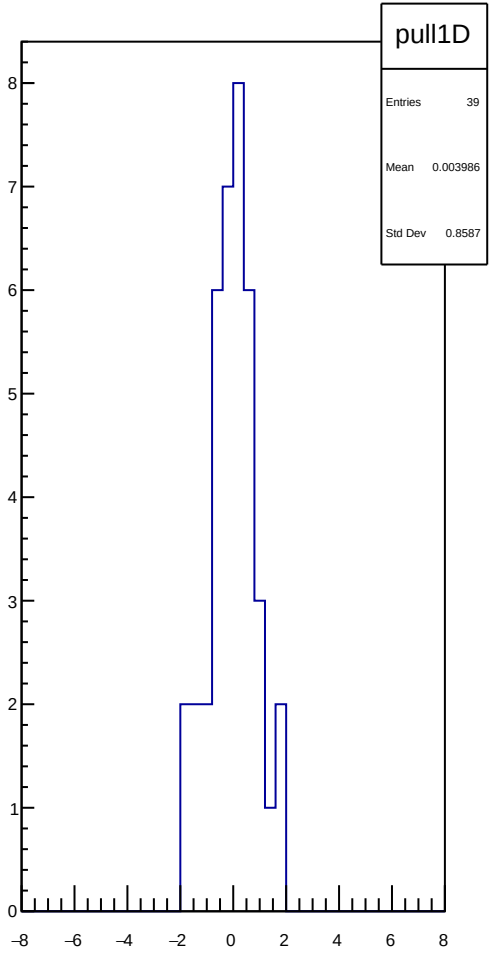

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.004e+04 / 38
p0 804.3 ± 0.9362
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

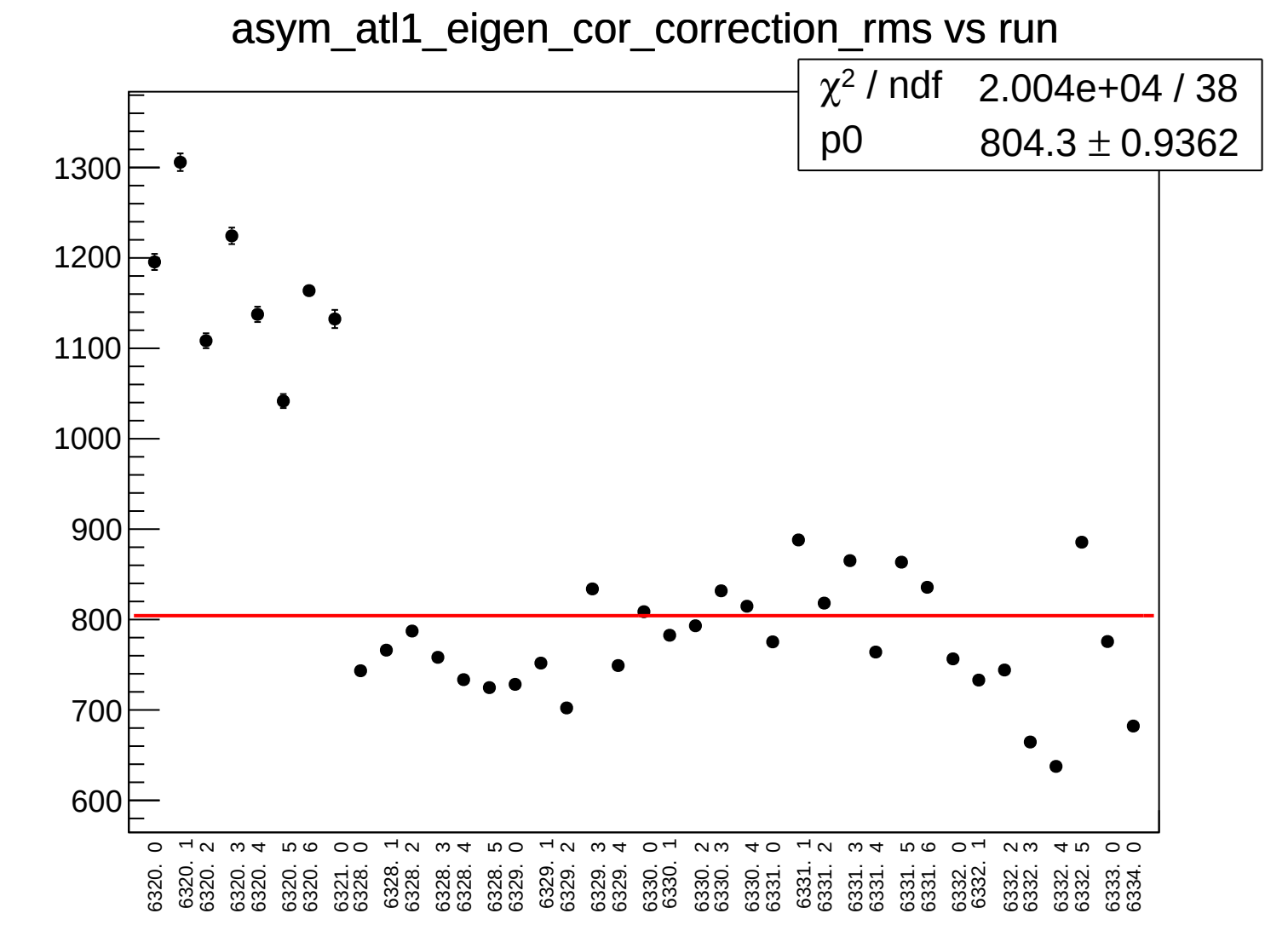

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 39.27 / 38
p0 1779 ± 3811
pull
Entries 39
Mean 1626
Std Dev 0

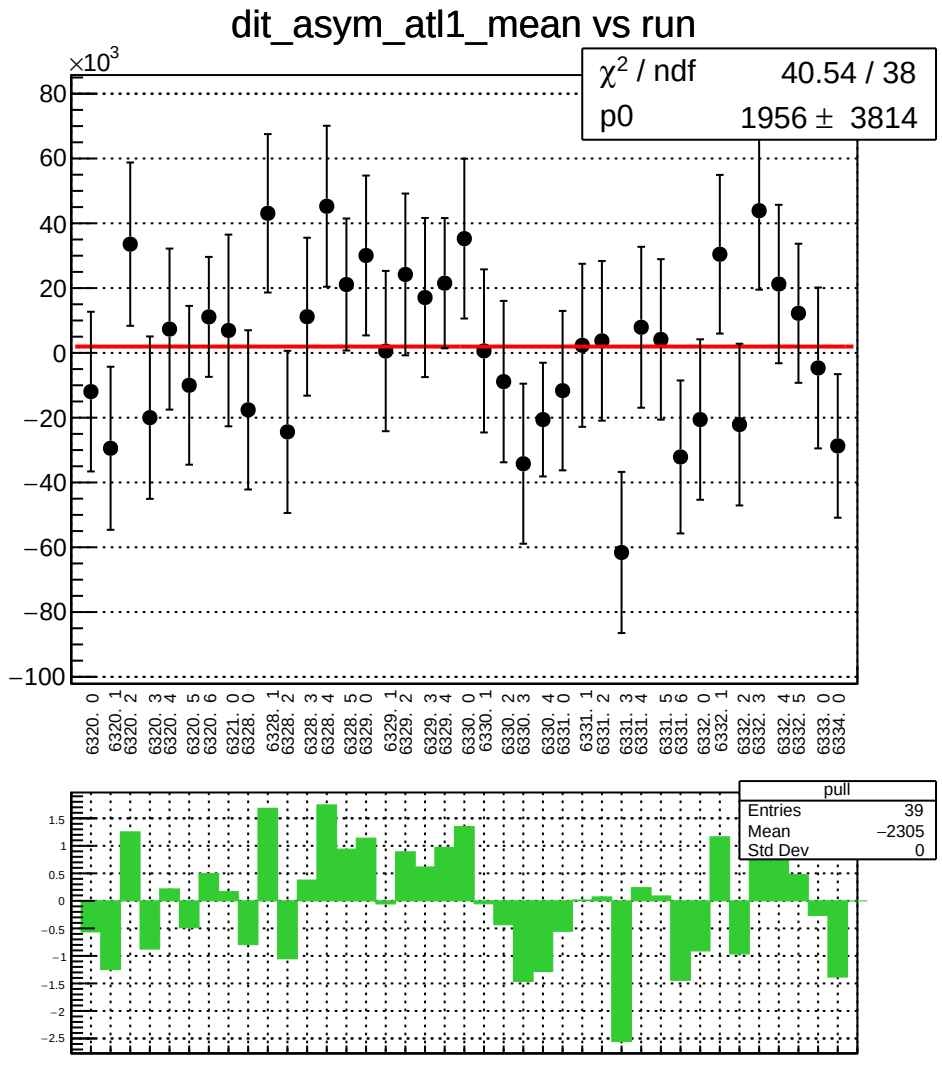

pull1D
Entries 39
Mean −0.0007903
Std Dev 1.003

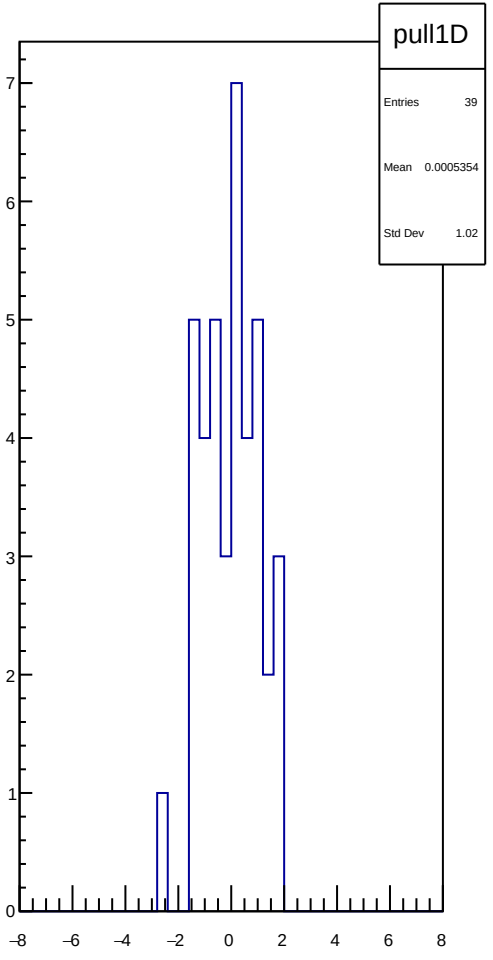

eigen_cor_asym_atl1_rms vs run
χ² / ndf 53.95 / 38
p0 2346 ± 2.695
2400
2380
2360
2340
2320
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

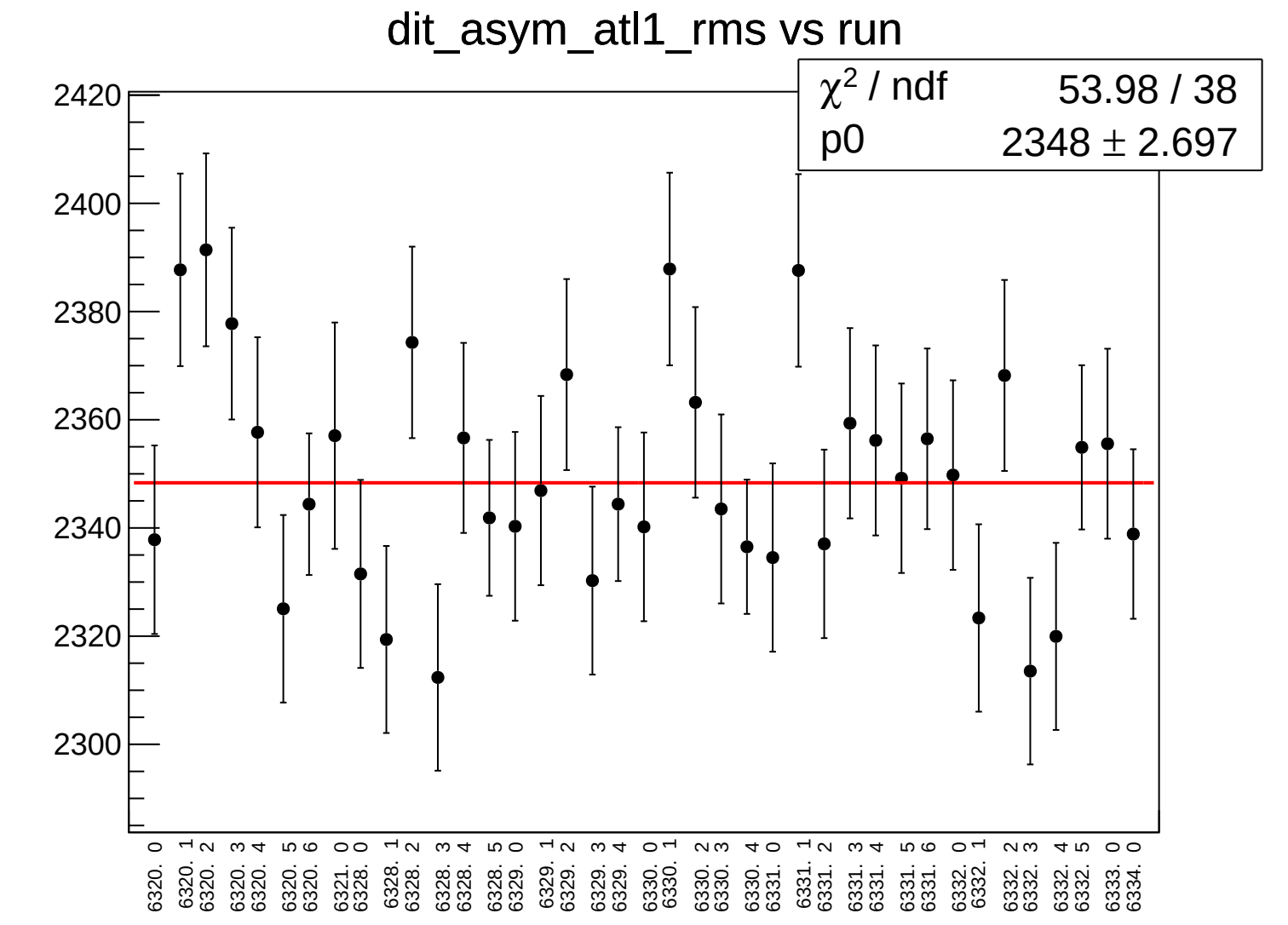

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 28.76 / 38
p0 1232 ± 1324
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −213.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

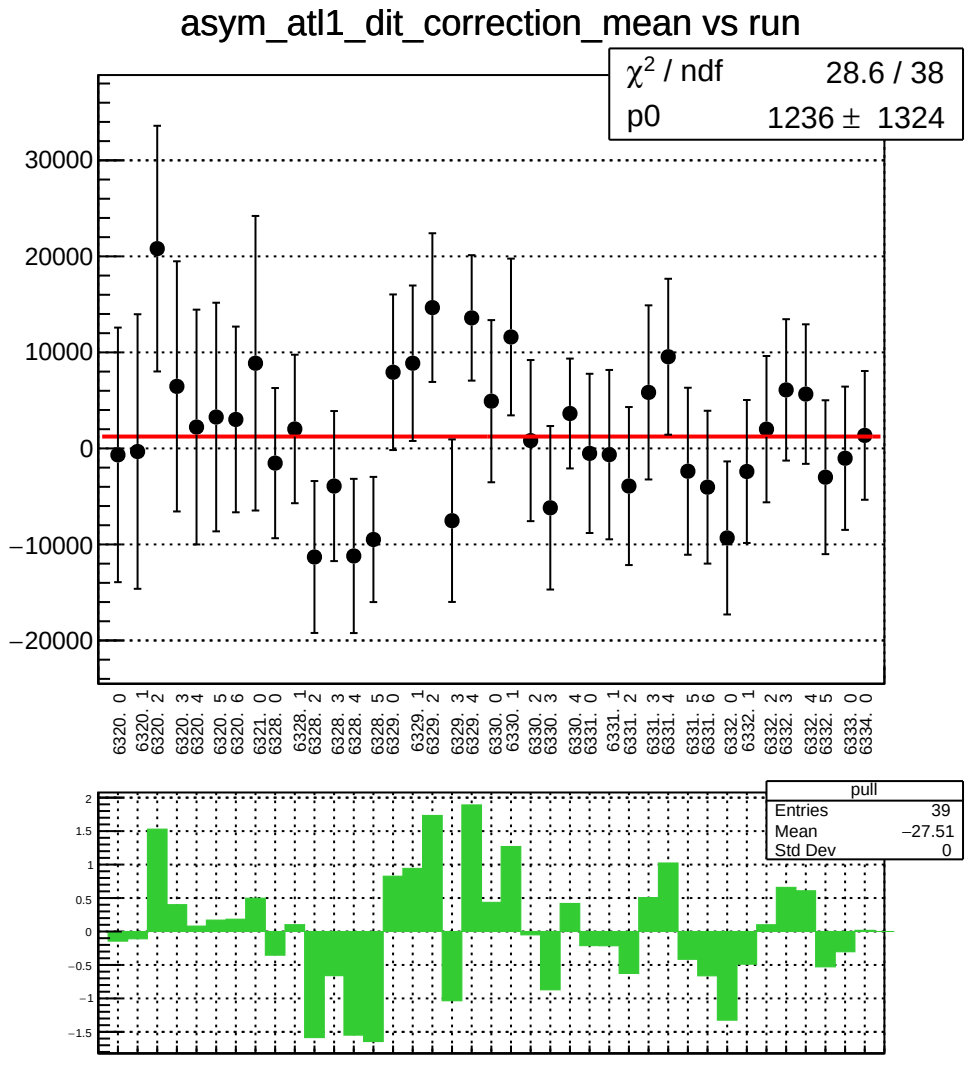

pull1D
Entries 39
Mean 0.003986
Std Dev 0.8587
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

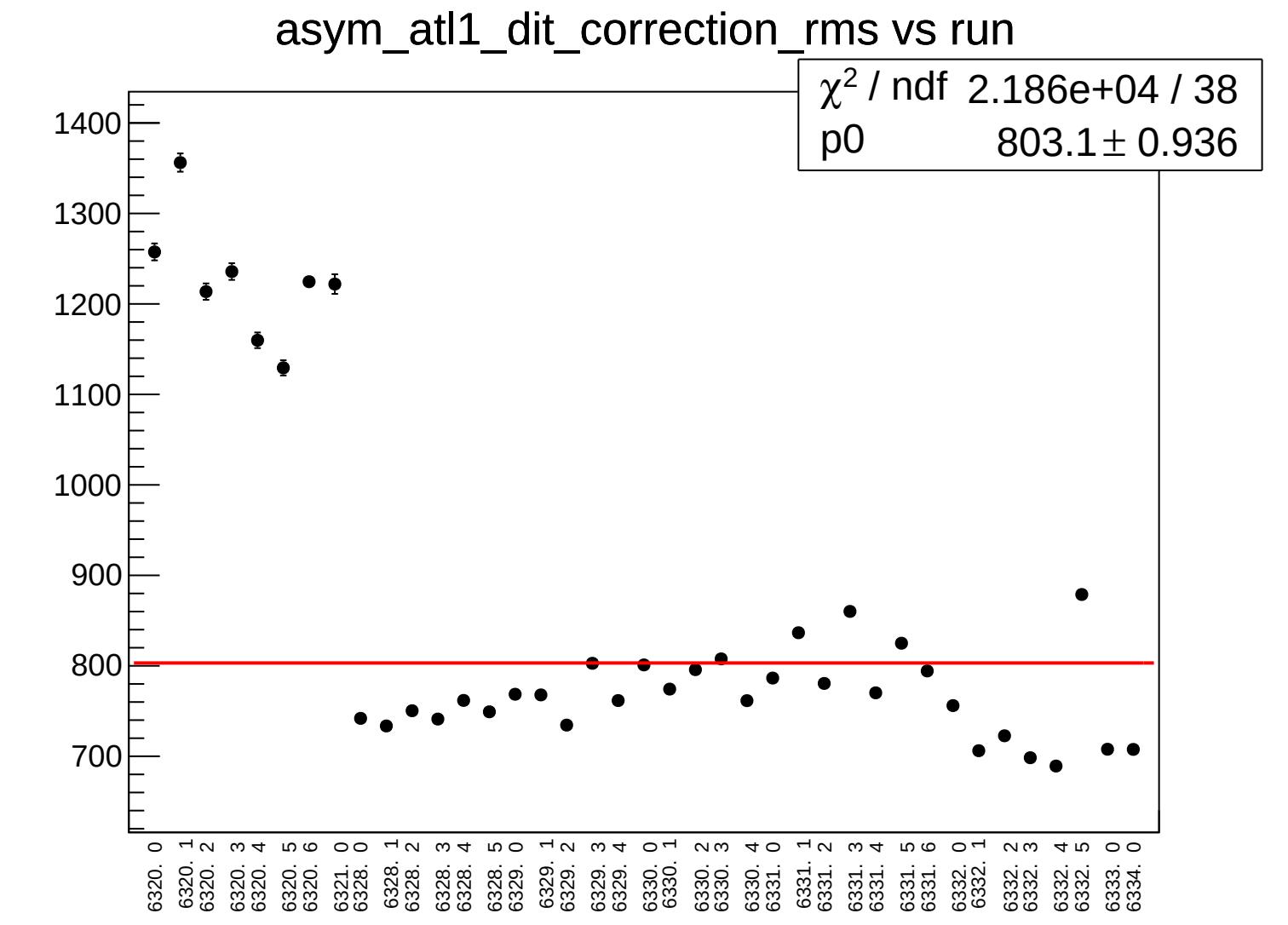

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.004e+04 / 38
p0 804.3 ± 0.9362
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

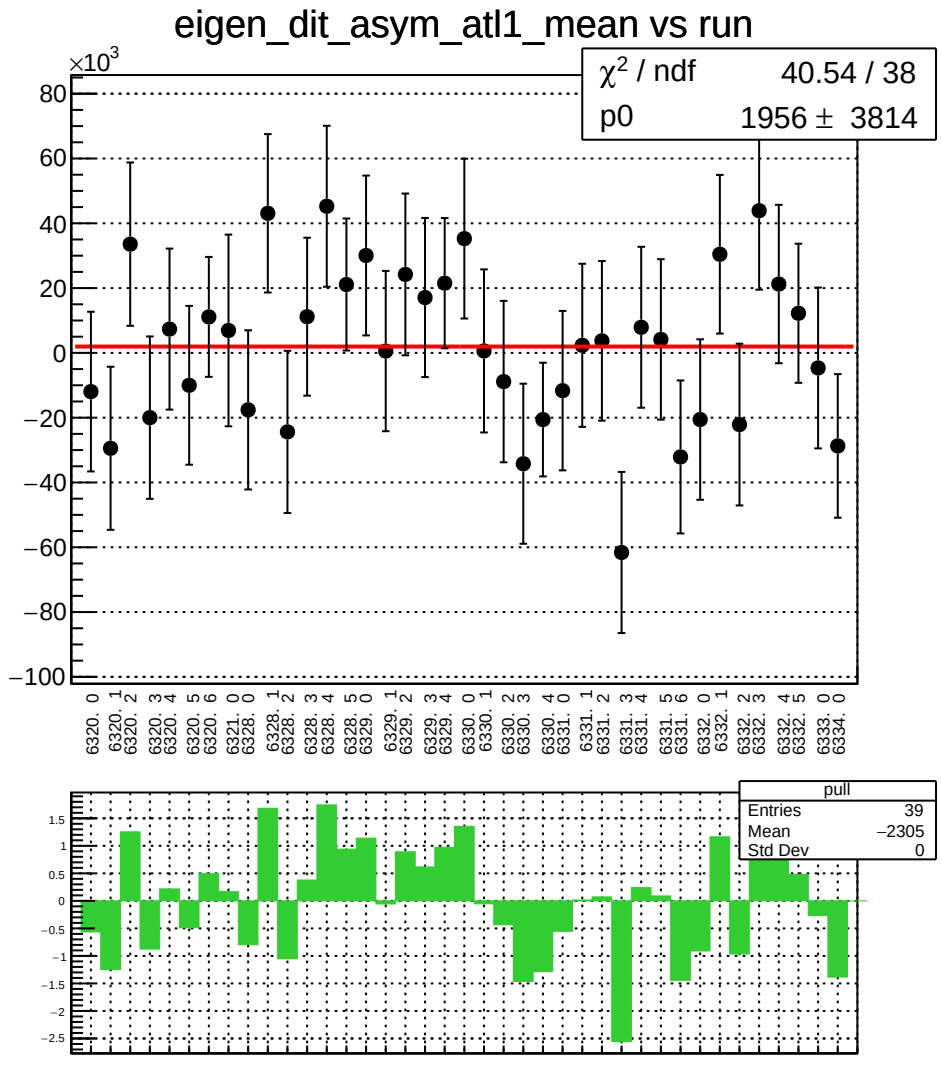

dit_asym_atl1_mean vs run
χ² / ndf 40.54 / 38
p0 1956 ± 3814
×10³
pull
Entries 39
Mean −2305
Std Dev 0

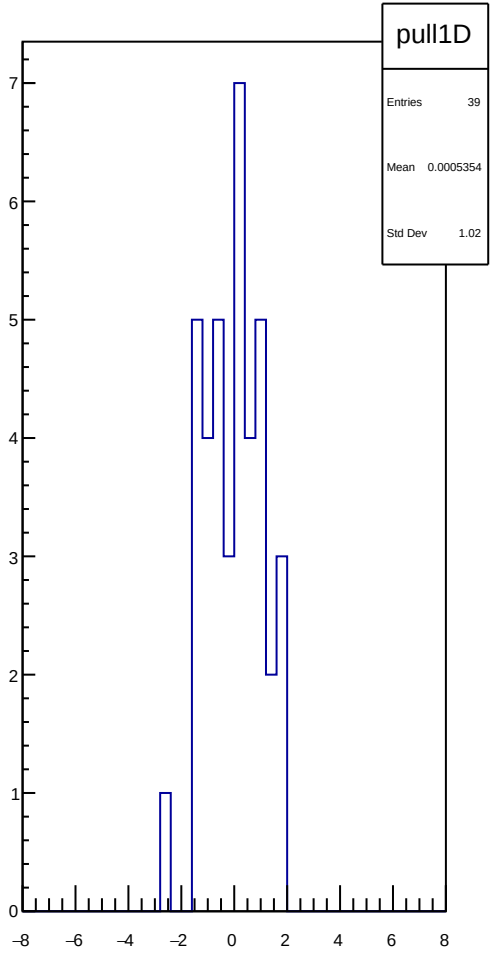

pull1D
Entries 39
Mean 0.0005354
Std Dev 1.02

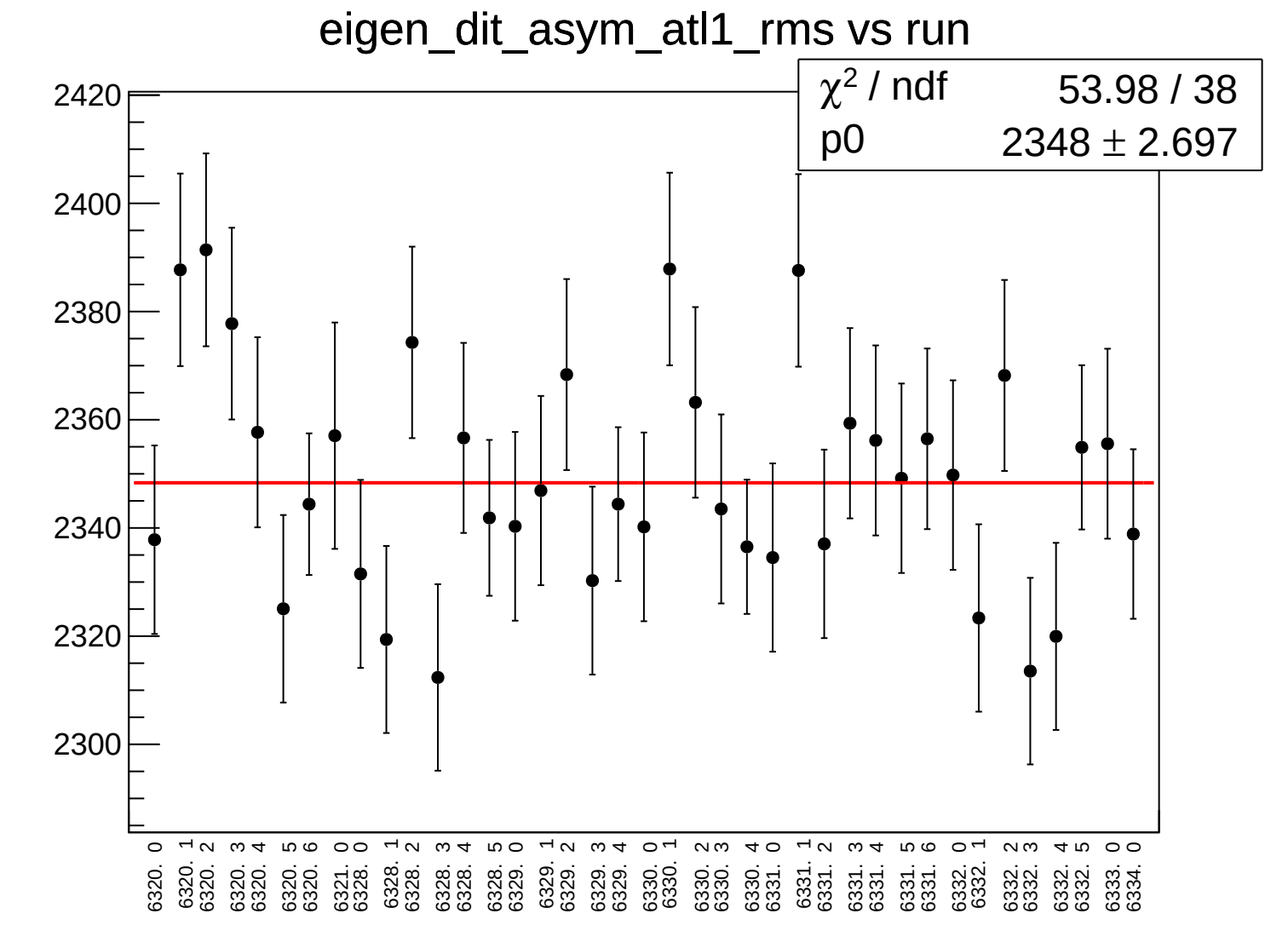

dit_asym_atl1_rms vs run
χ² / ndf 53.98 / 38
p0 2348 ± 2.697
2420
2400
2380
2360
2340
2320
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

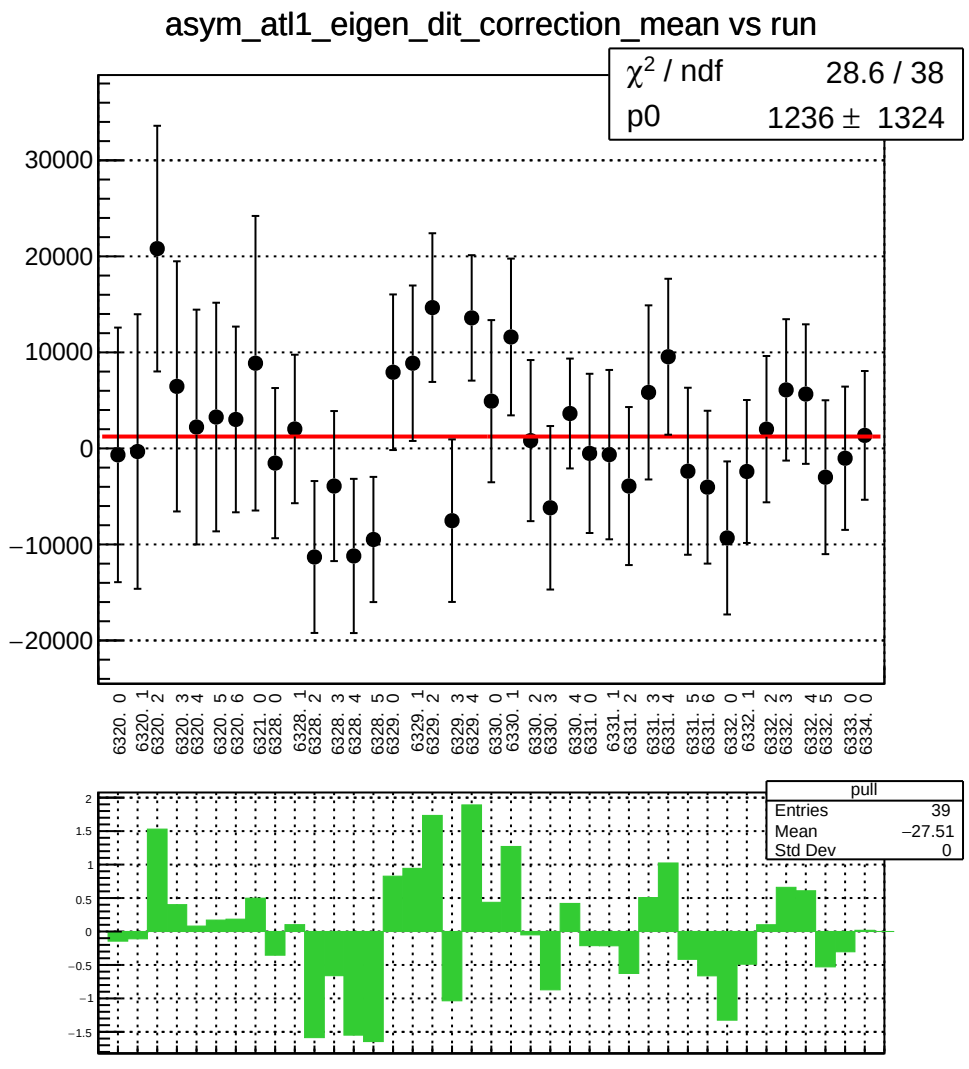

asym_atl1_dit_correction_mean vs run
χ² / ndf 28.6 / 38
p0 1236 ± 1324
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01607
Std Dev 0.8561
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

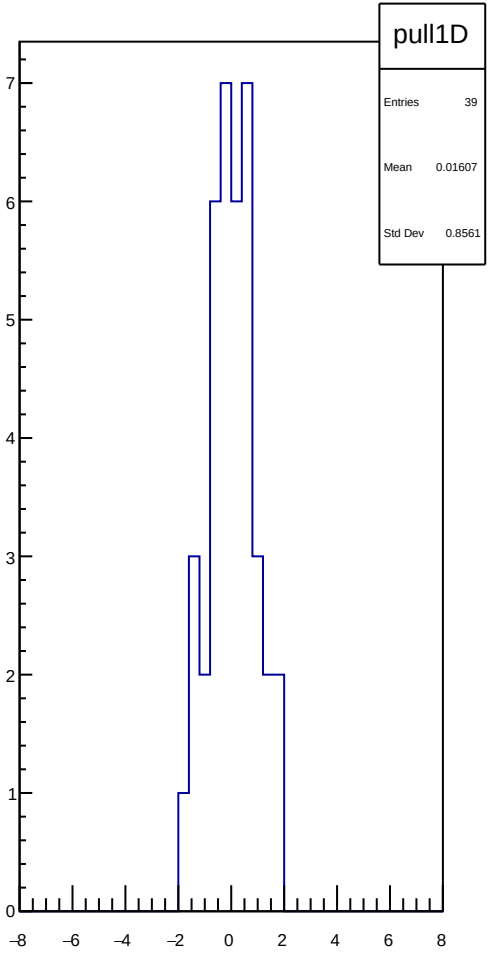

asym_atl1_dit_correction_rms vs run
χ² / ndf 2.186e+04 / 38
p0 803.1 ± 0.936
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

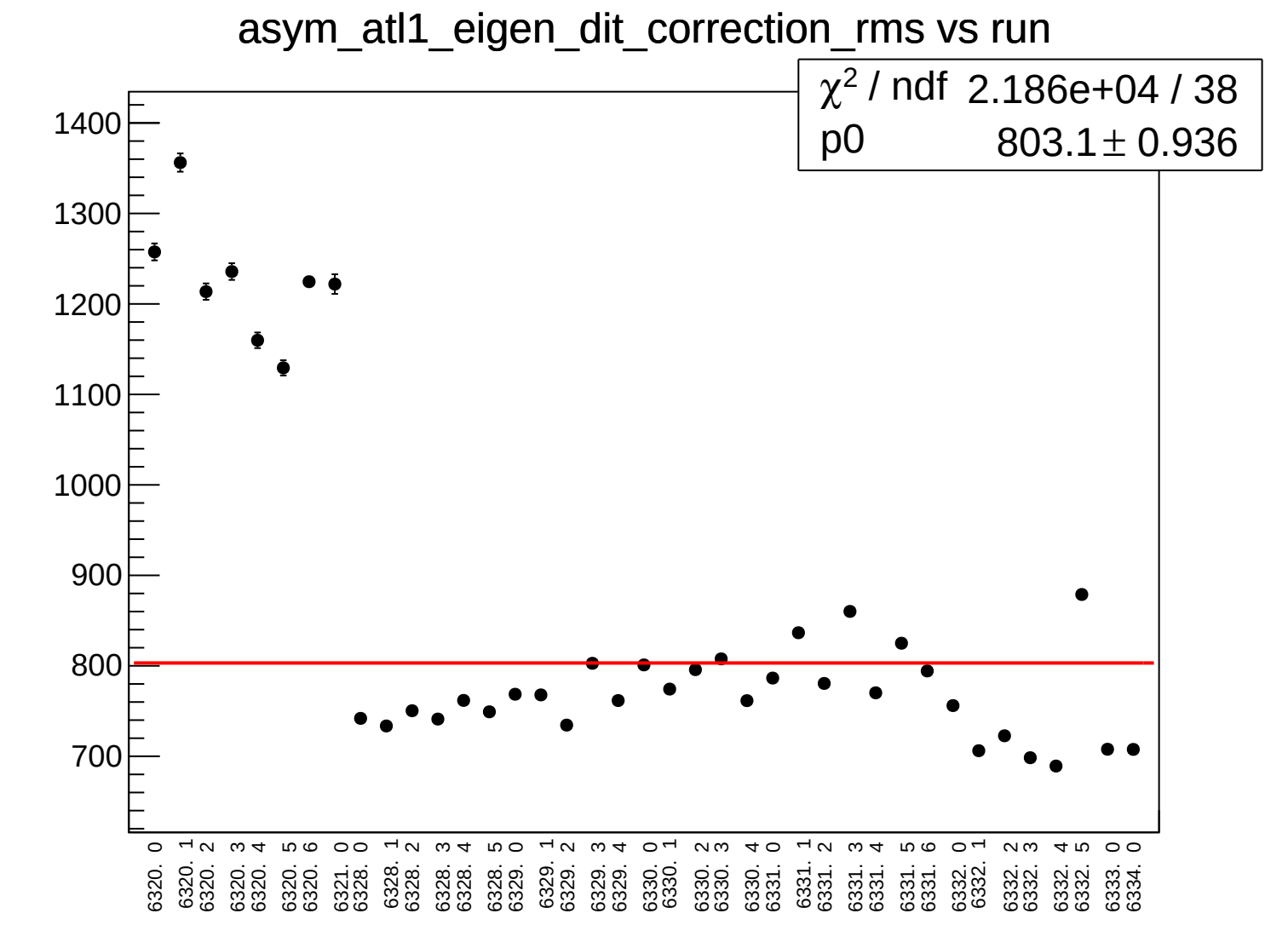

eigen_dit_asym_atl1_mean vs run
χ² / ndf 40.54 / 38
p0 1956 ± 3814
×10³
pull
Entries 39
Mean −2305
Std Dev 0

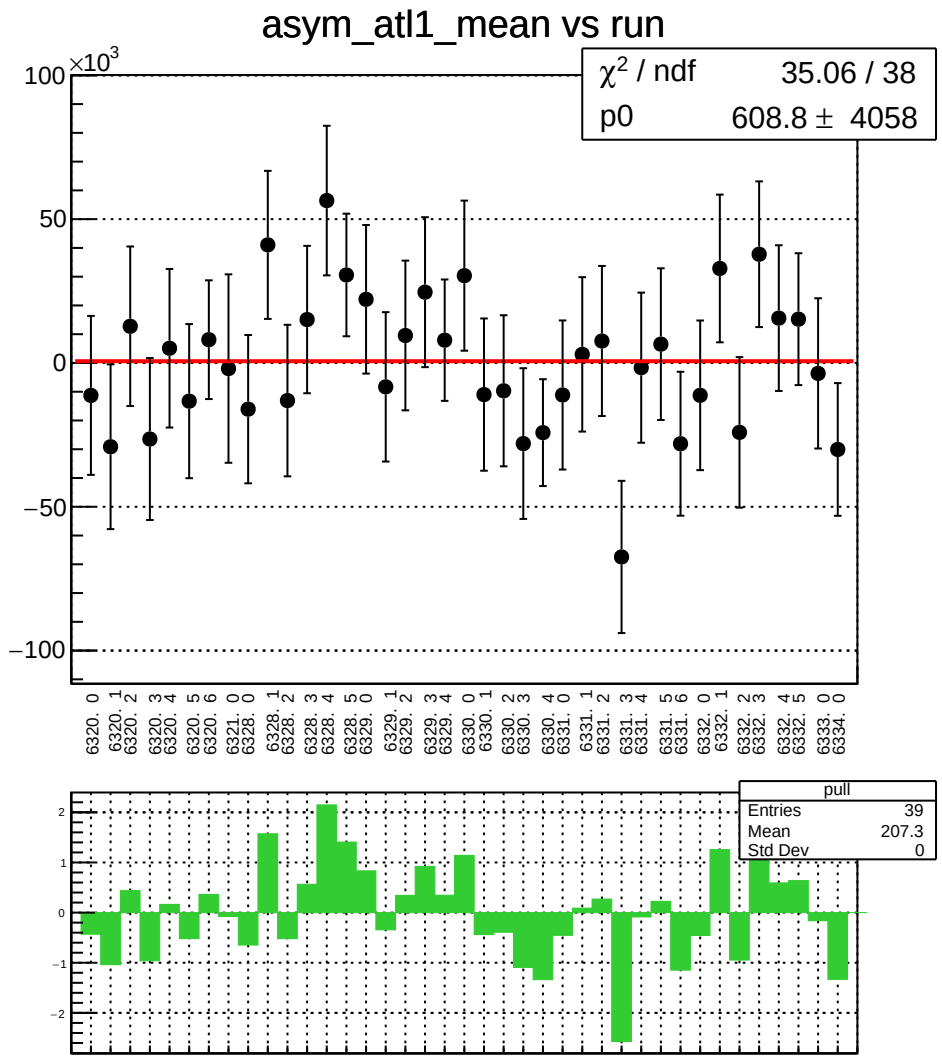

pull1D
Entries 39
Mean 0.0005354
Std Dev 1.02

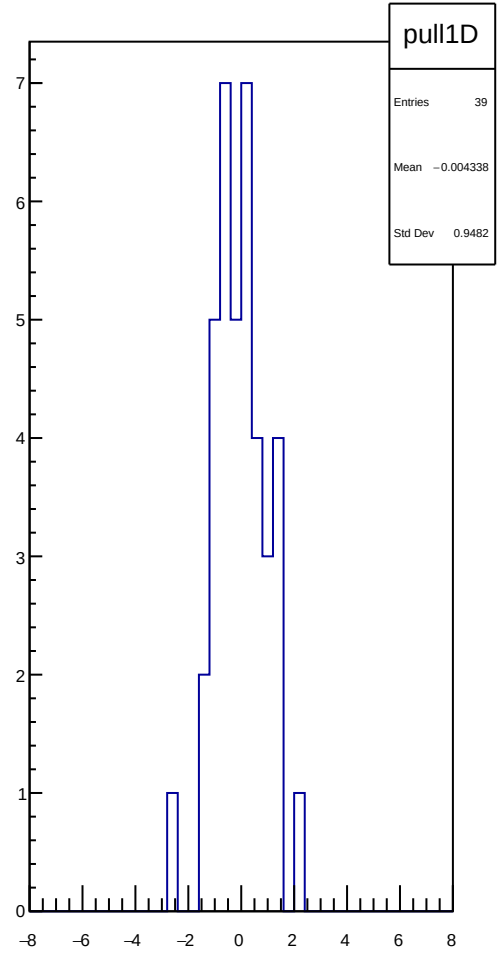

eigen_dit_asym_atl1_rms vs run
χ² / ndf 53.98 / 38
p0 2348 ± 2.697
2420
2400
2380
2360
2340
2320
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

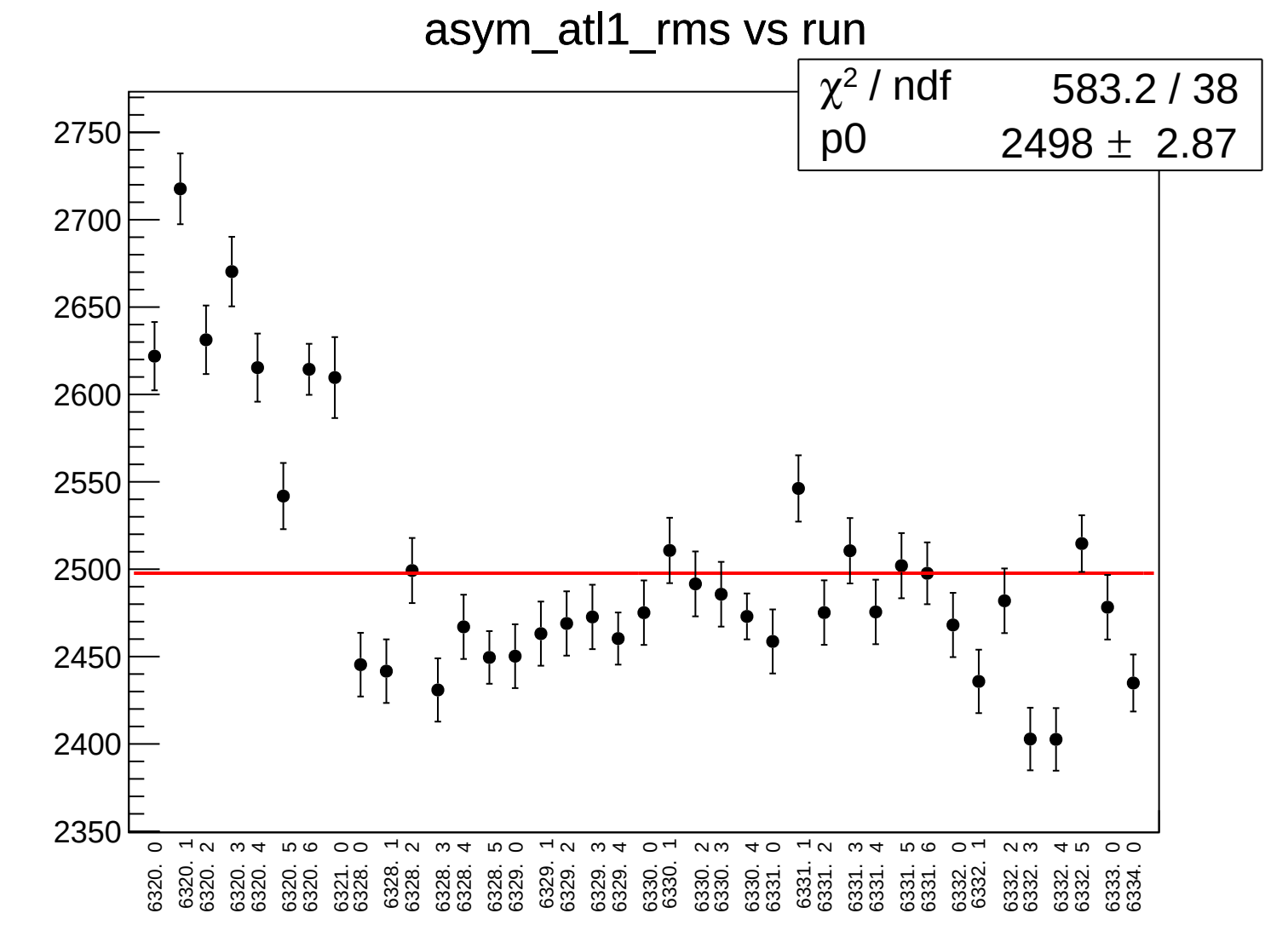

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 28.6 / 38
p0 1236 ± 1324
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

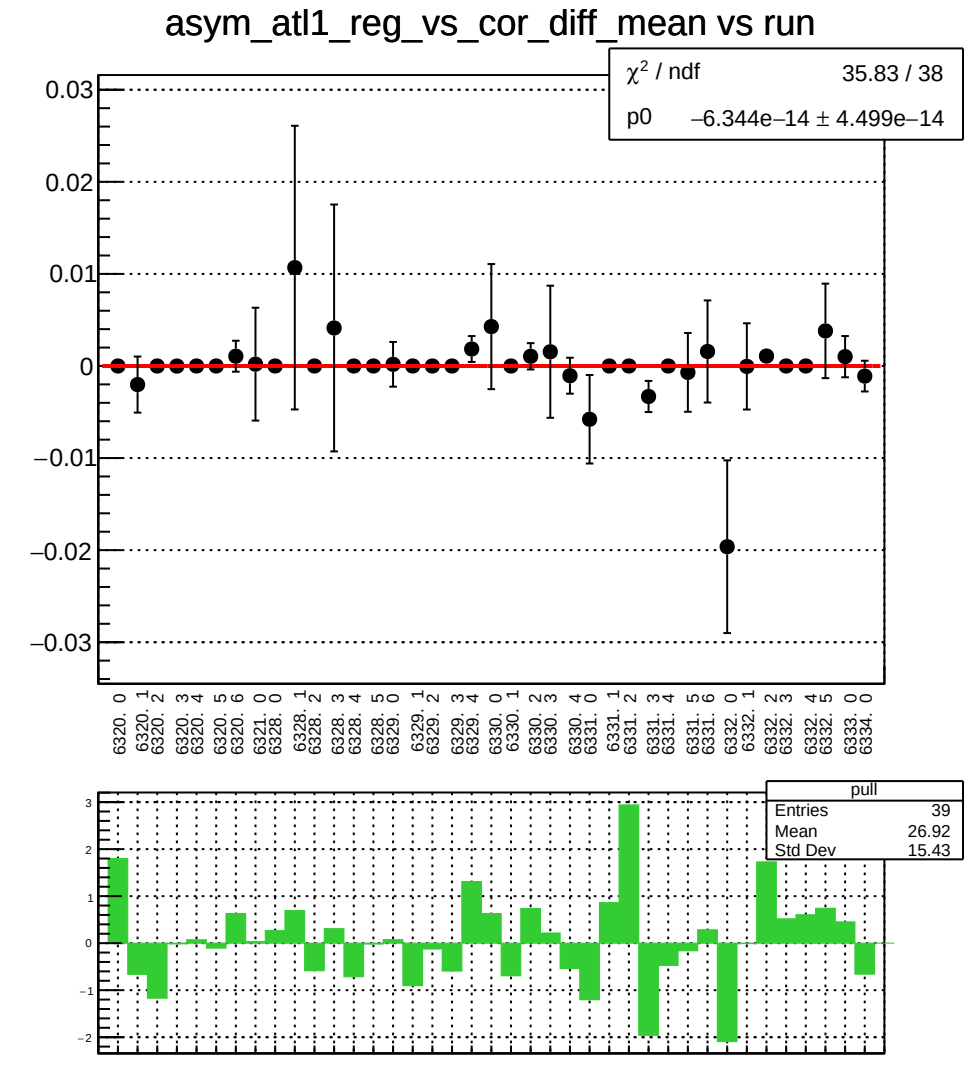

pull1D
Entries 39
Mean 0.01607
Std Dev 0.8561
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

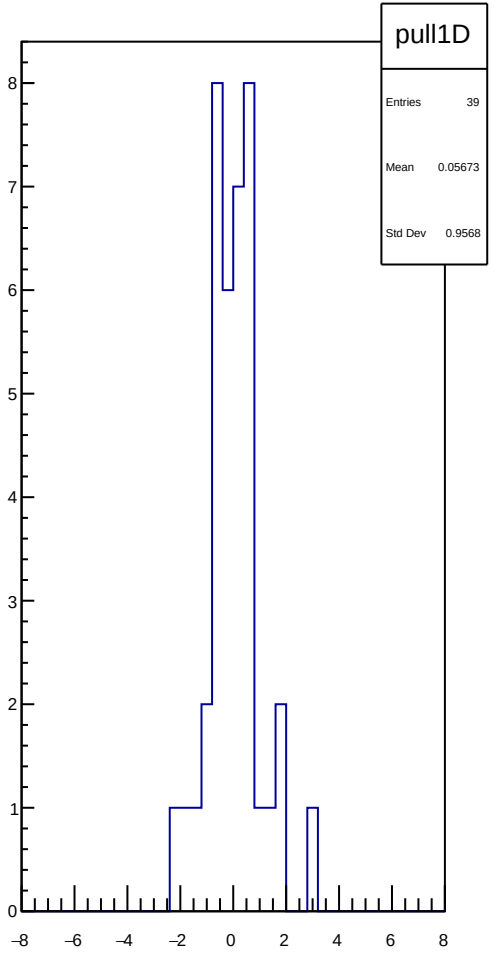

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.186e+04 / 38
p0 803.1 ± 0.936
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

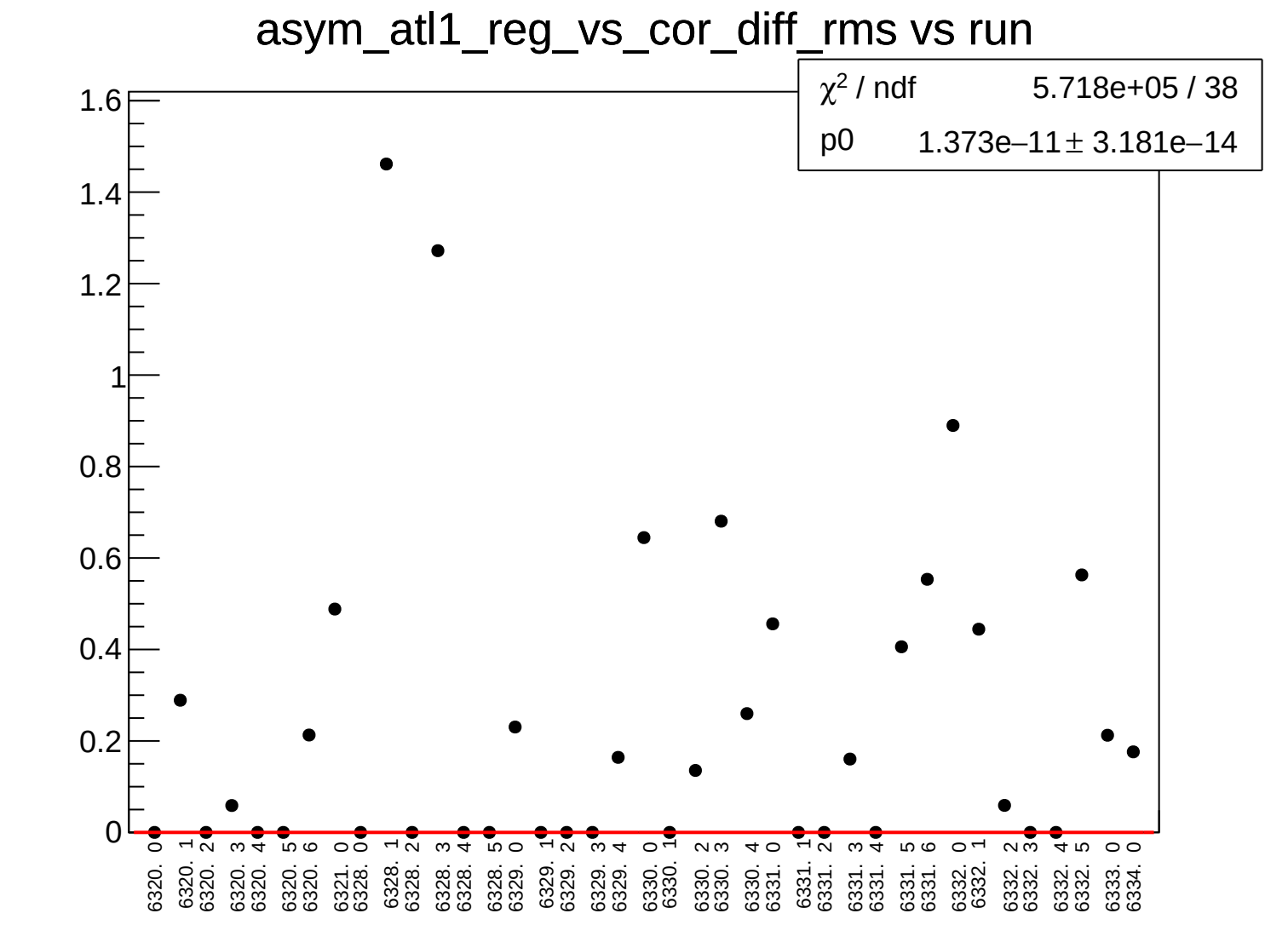

asym_atl1_mean vs run
χ² / ndf 35.06 / 38
p0 608.8 ± 4058
×10³
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 207.3
Std Dev 0
2
1
0
−1
−2

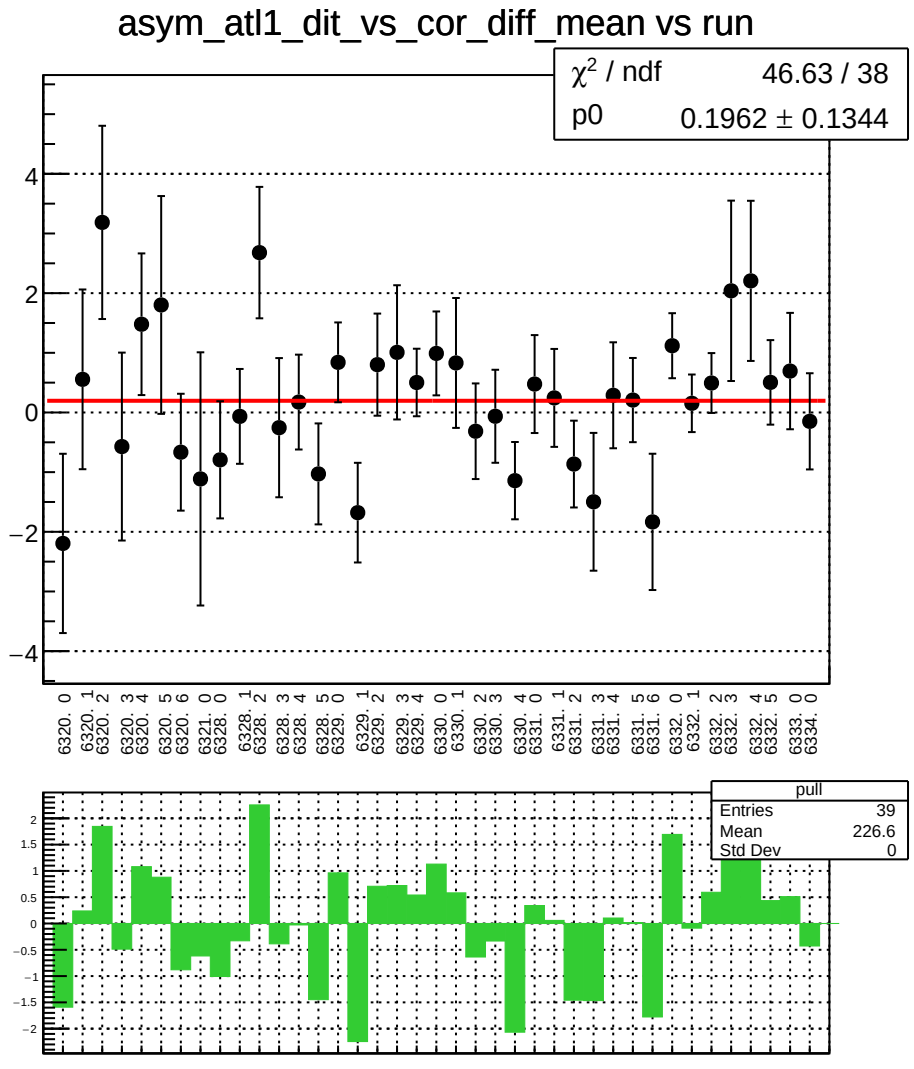

pull1D
Entries 39
Mean −0.004338
Std Dev 0.9482
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

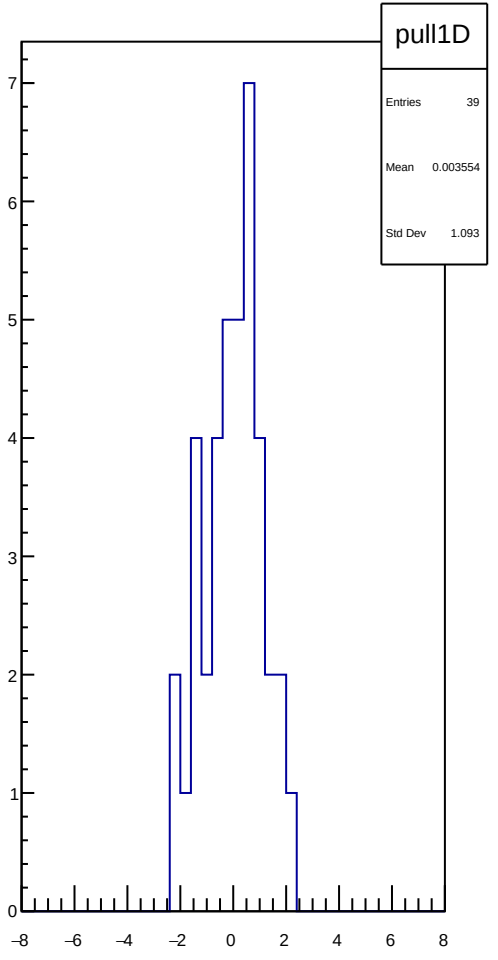

asym_atl1_rms vs run
χ² / ndf 583.2 / 38
p0 2498 ± 2.87
2750
2700
2650
2600
2550
2500
2450
2400
2350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

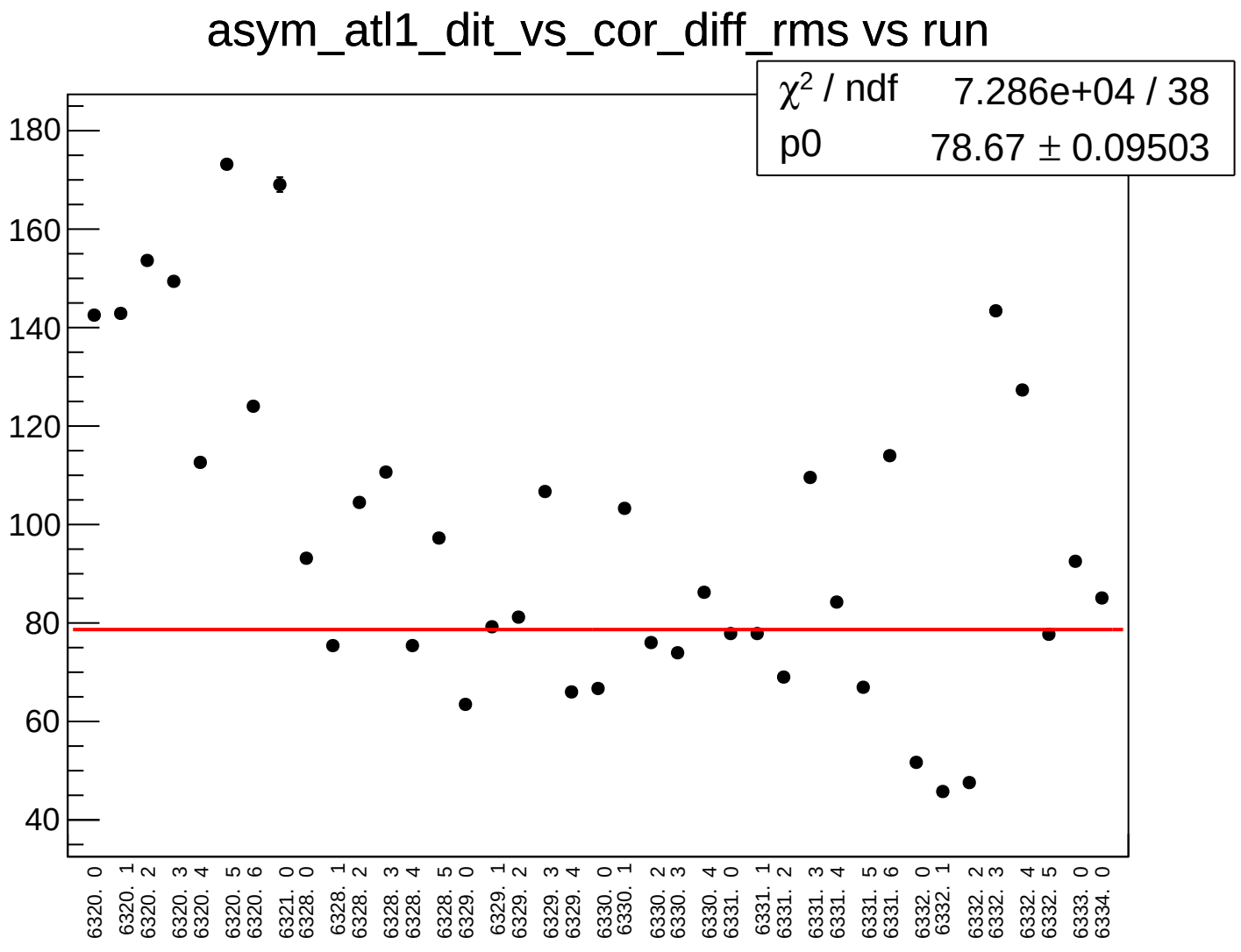

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 35.83 / 38
p0 −6.344e−14 ± 4.499e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.92
Std Dev 15.43
3
2
1
0
−1
−2

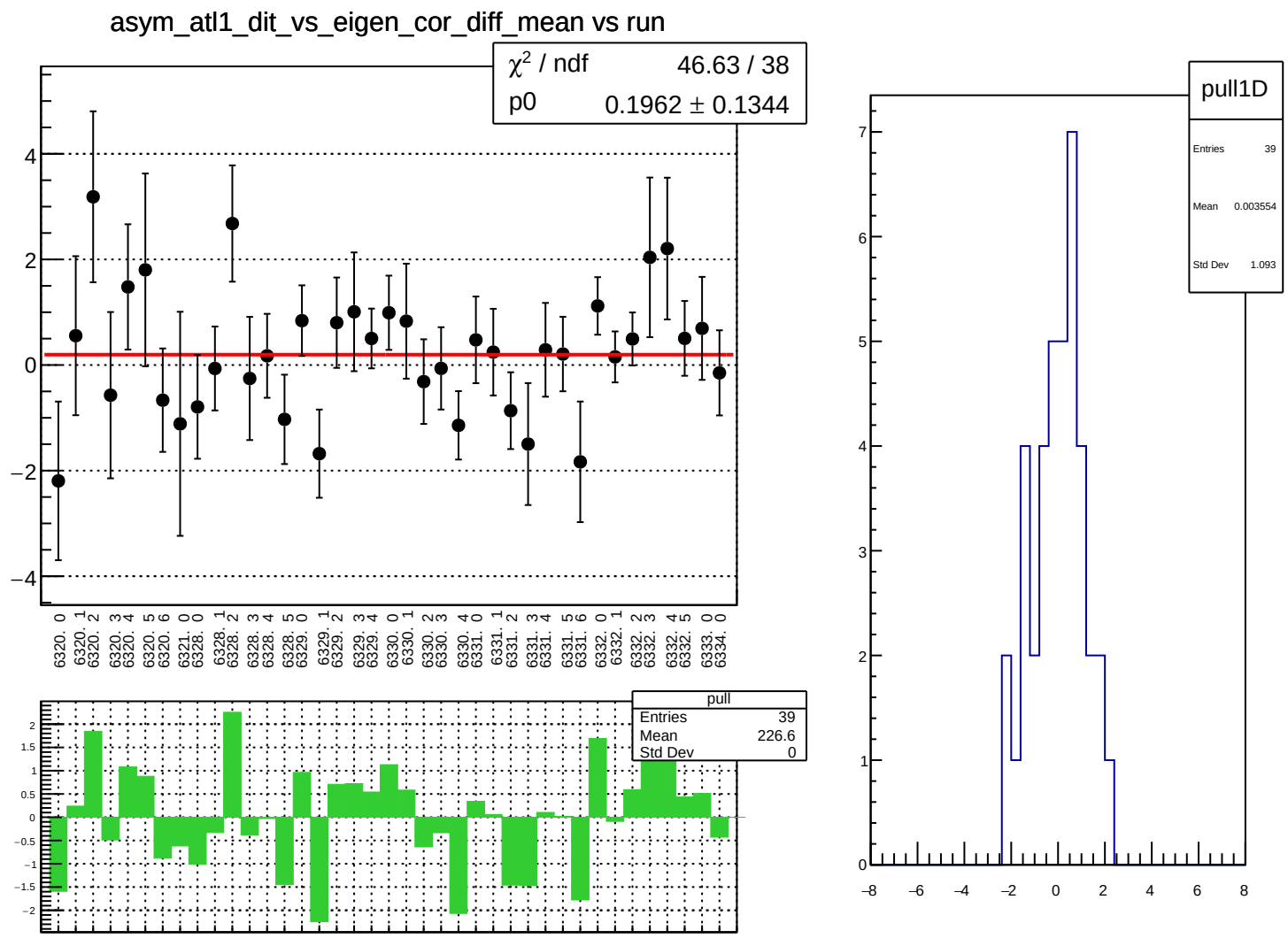

pull1D
Entries 39
Mean 0.05673
Std Dev 0.9568
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

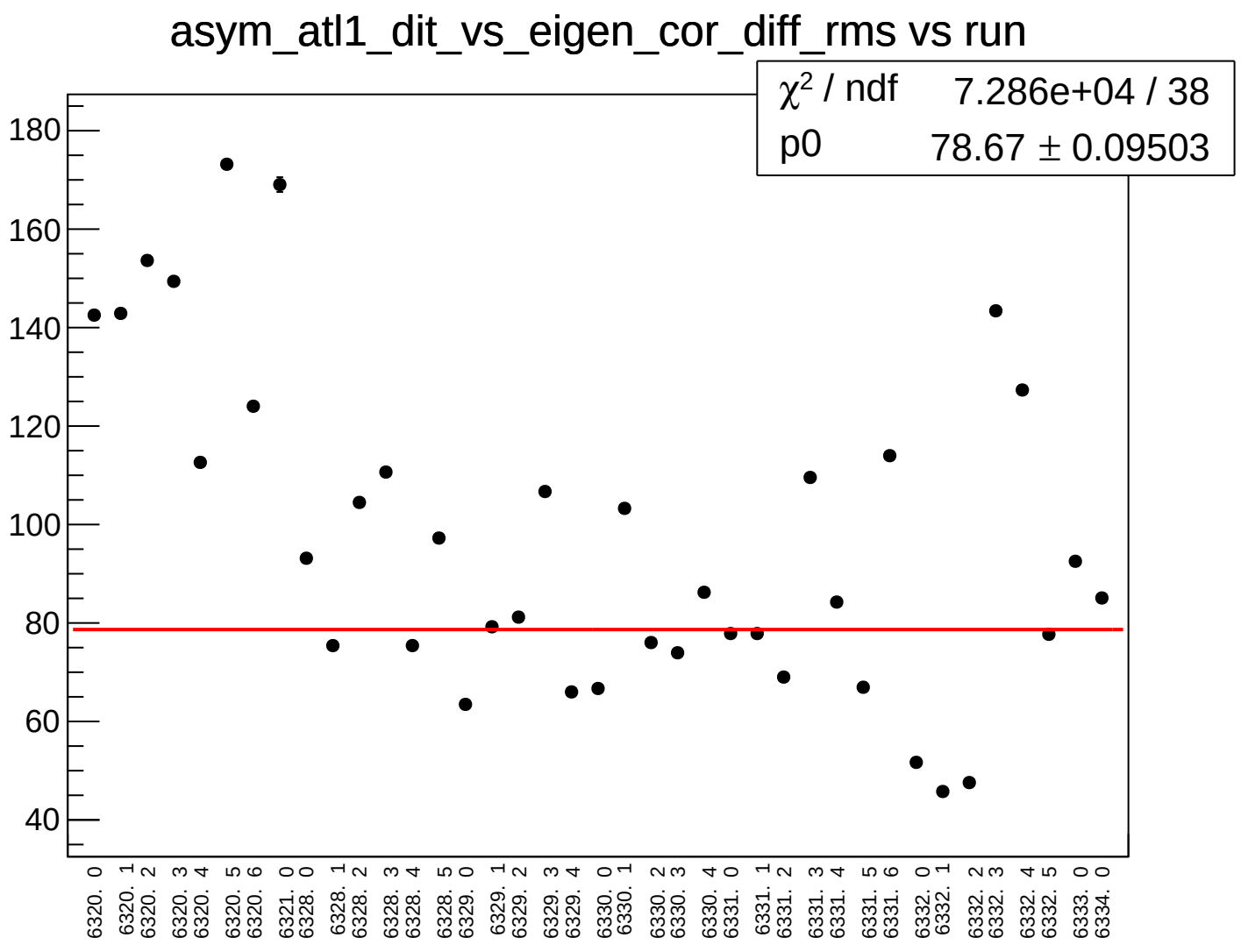

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.718e+05 / 38
p0 1.373e−11 ± 3.181e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

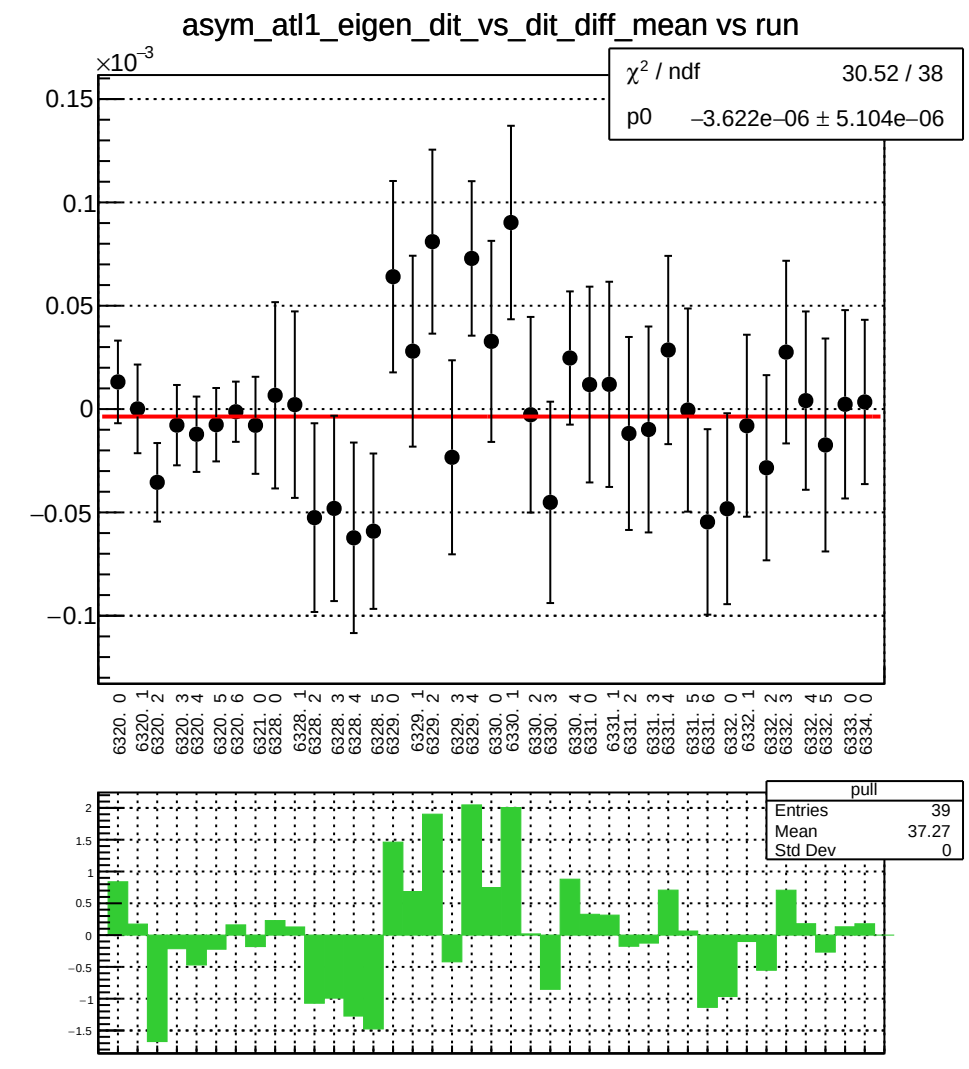

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 46.63 / 38
p0 0.1962 ± 0.1344
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 226.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

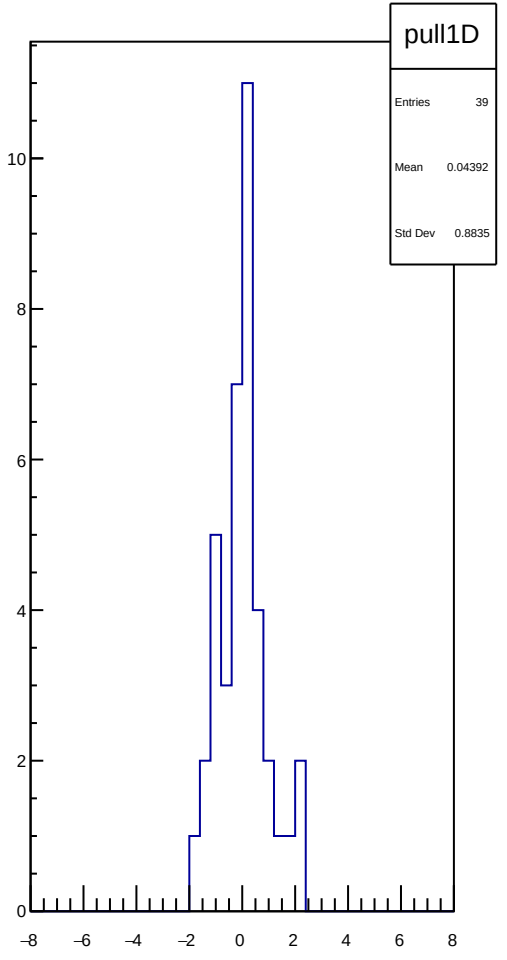

pull1D
Entries 39
Mean 0.003554
Std Dev 1.093
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

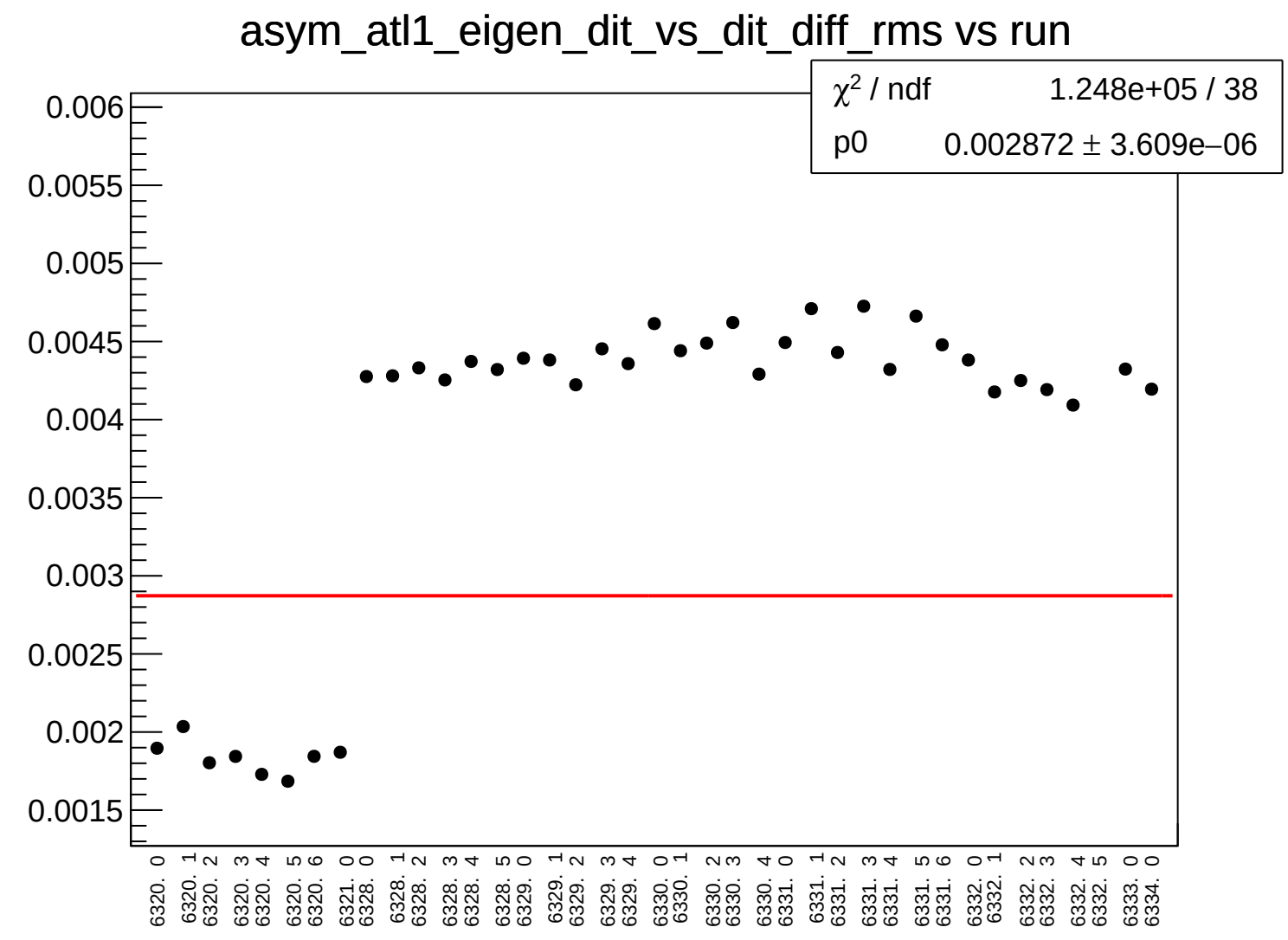

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.286e+04 / 38
p0 78.67 ± 0.09503
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

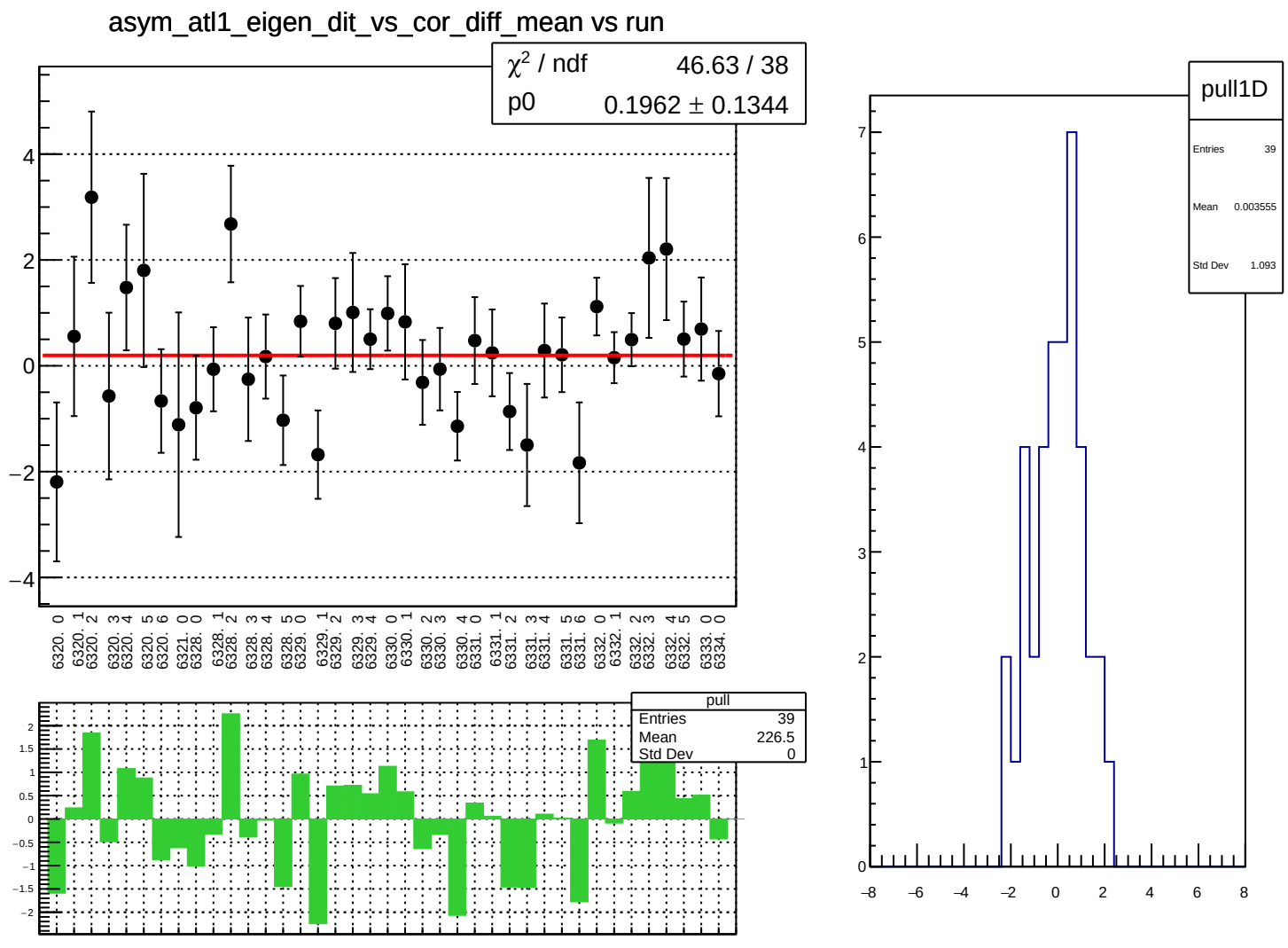

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.63 / 38
p0 0.1962 ± 0.1344
pull
Entries 39
Mean 226.6
Std Dev 0
pull1D
Entries 39
Mean 0.003554
Std Dev 1.093

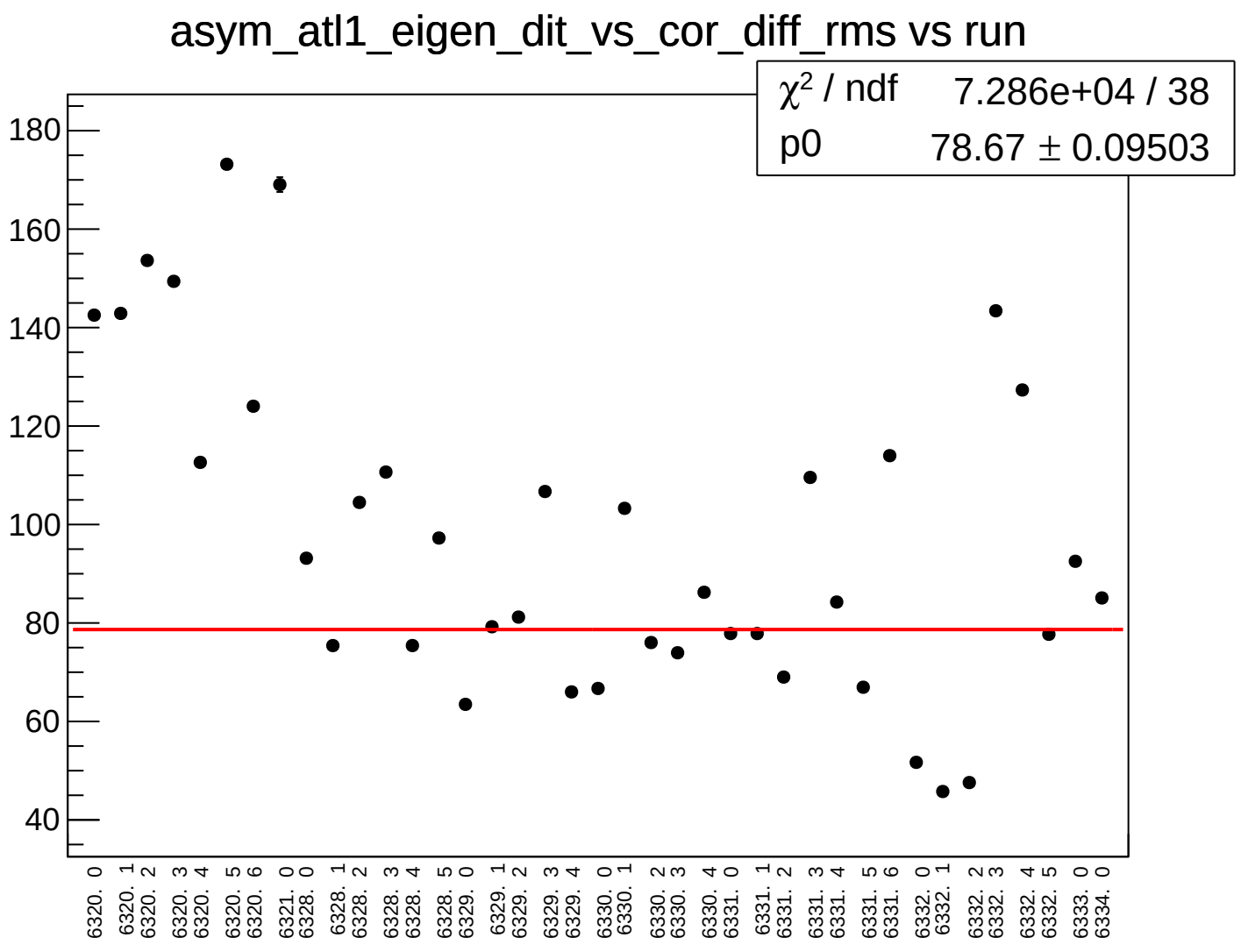

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.286e+04 / 38
p0 78.67 ± 0.09503
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

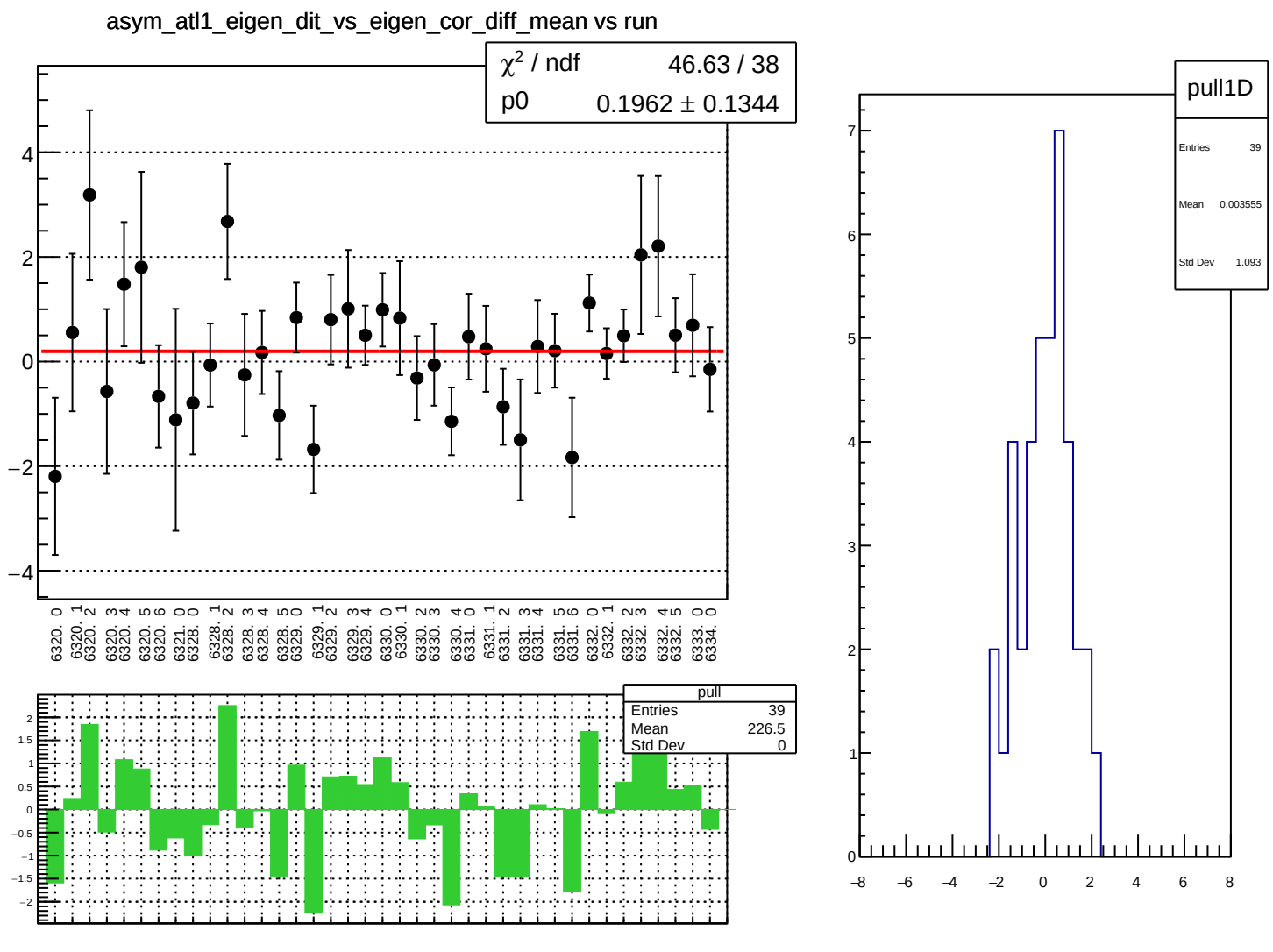

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.52 / 38
p0 −3.622e−06 ± 5.104e−06
0.15
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

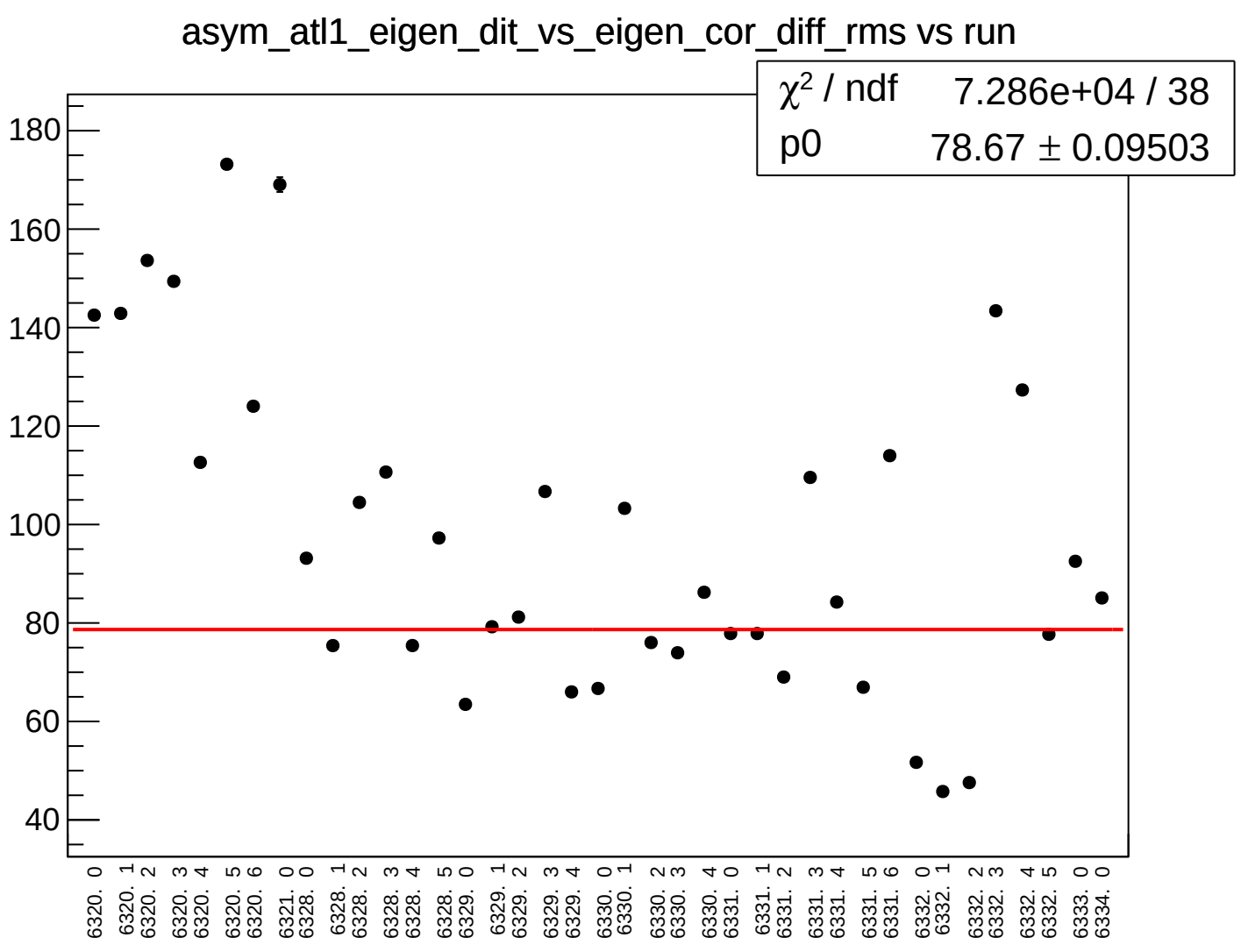

pull1D
Entries 39
Mean 0.04392
Std Dev 0.8835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

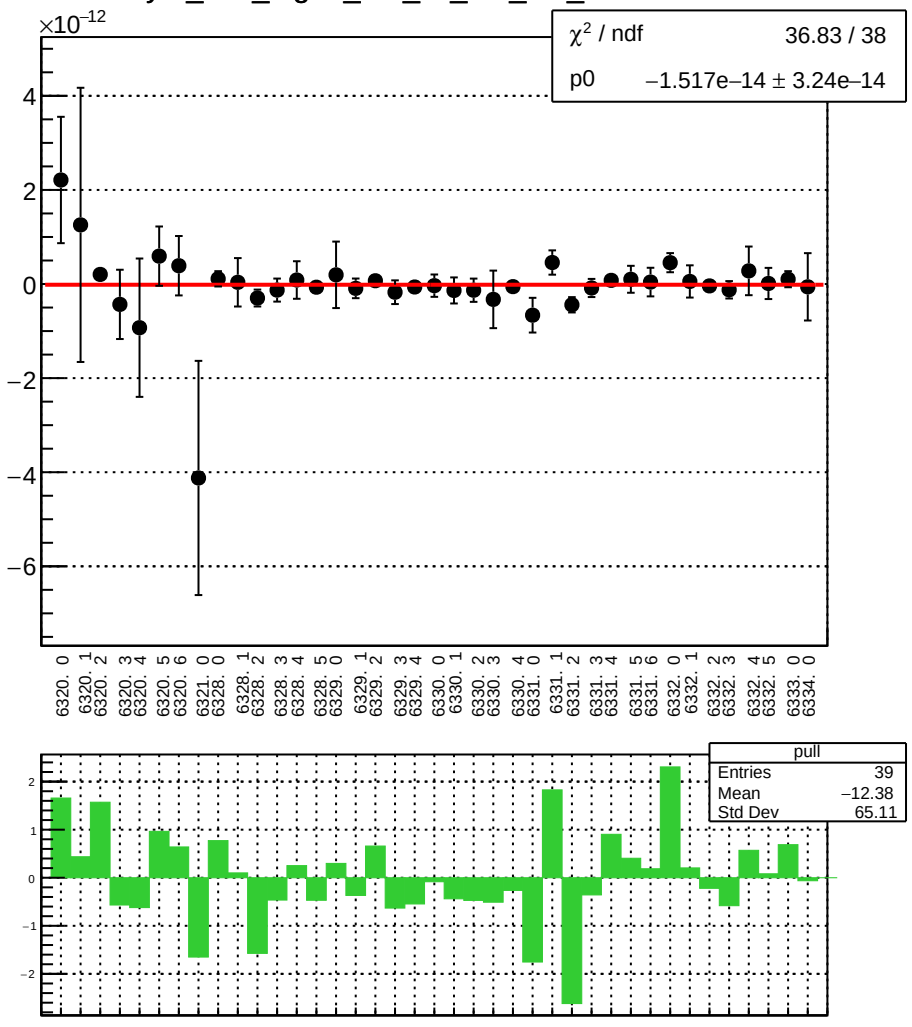

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.248e+05 / 38
p0 0.002872 ± 3.609e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

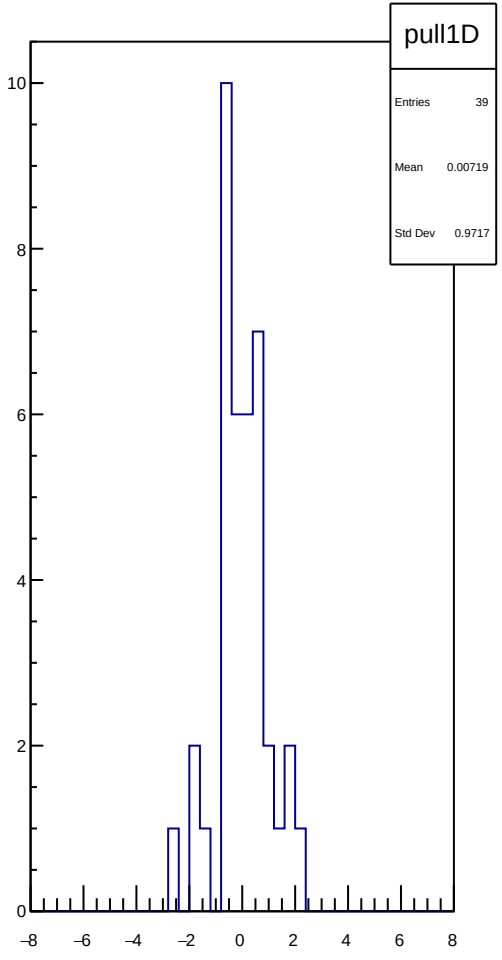

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.63 / 38
p0 0.1962 ± 0.1344
pull
Entries 39
Mean 226.5
Std Dev 0
pull1D
Entries 39
Mean 0.003555
Std Dev 1.093

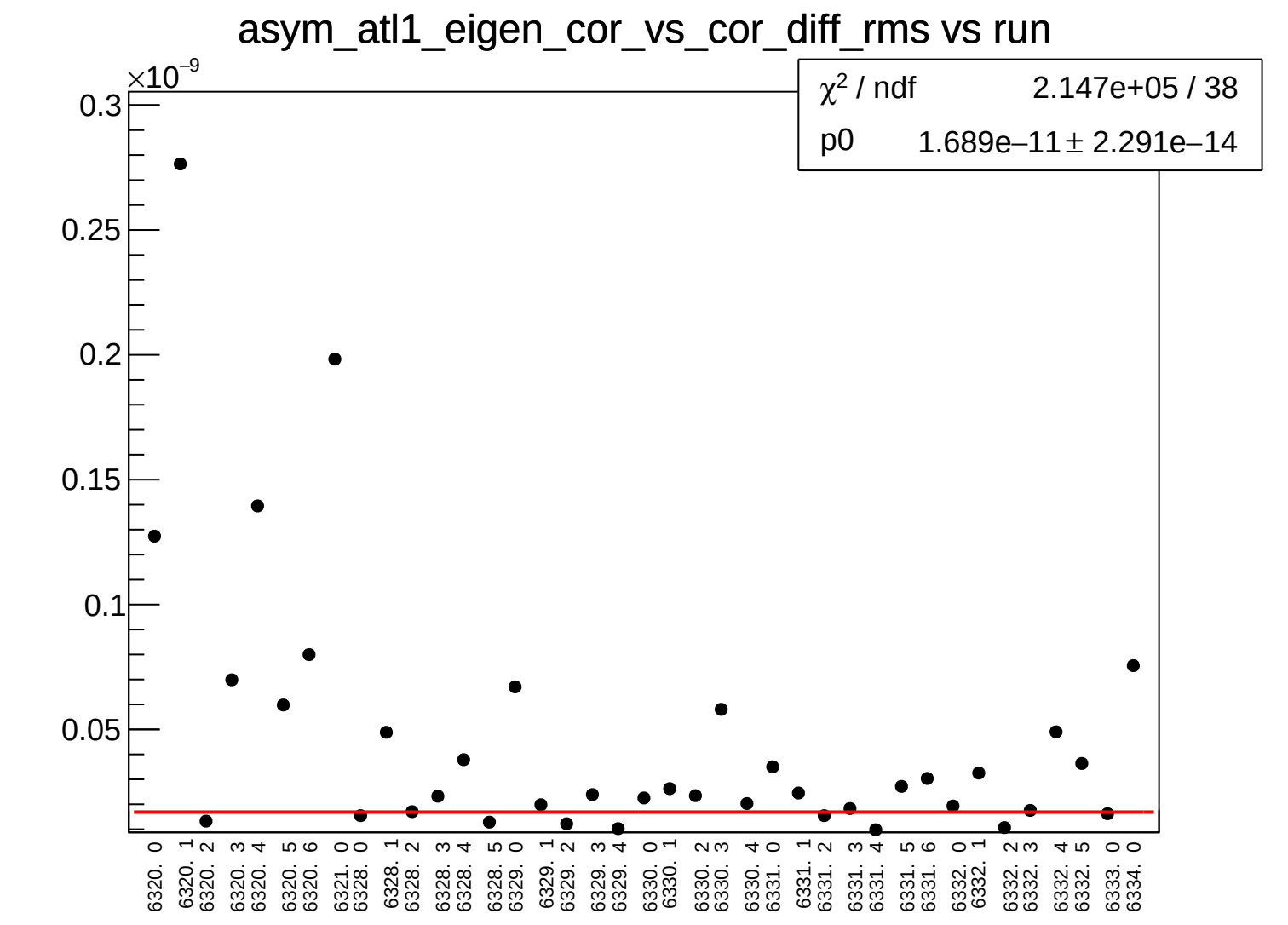

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.286e+04 / 38
p0 78.67 ± 0.09503
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

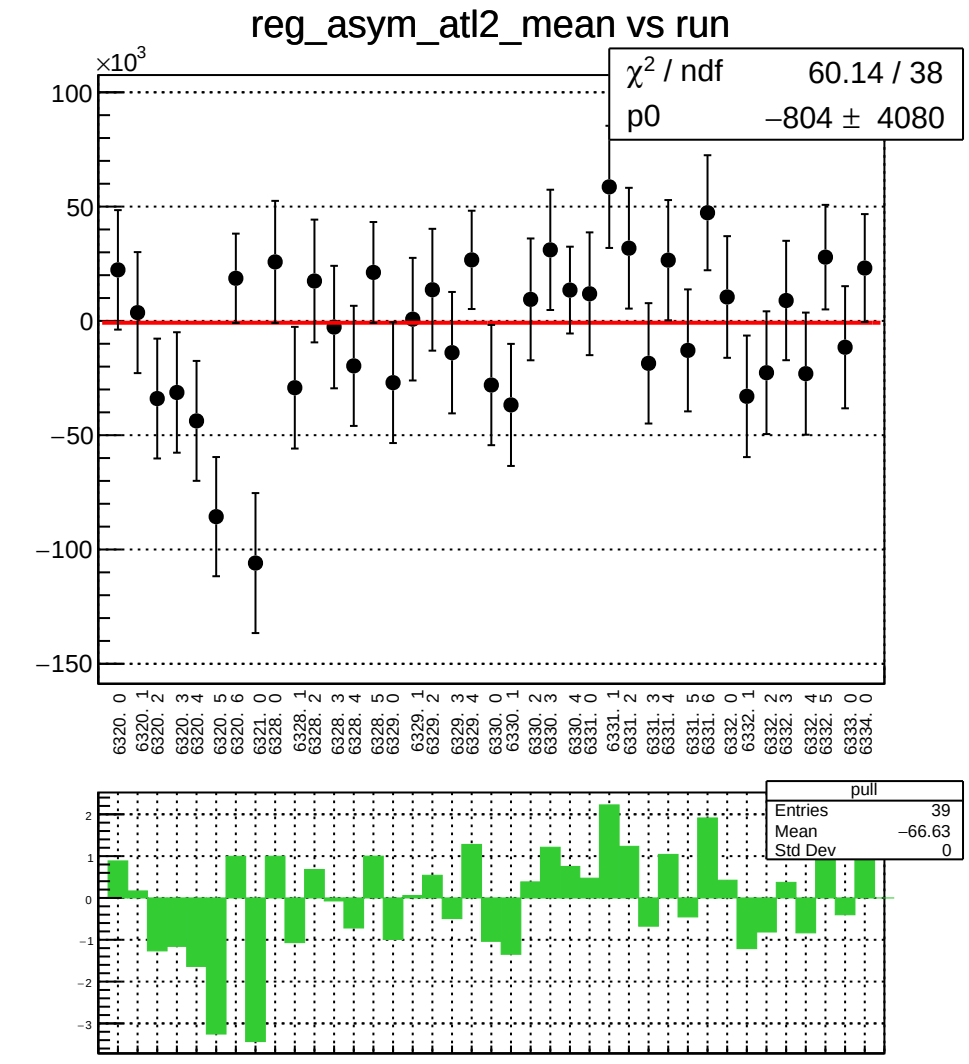

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.63 / 38
p0 0.1962 ± 0.1344
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 226.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.003555
Std Dev 1.093
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

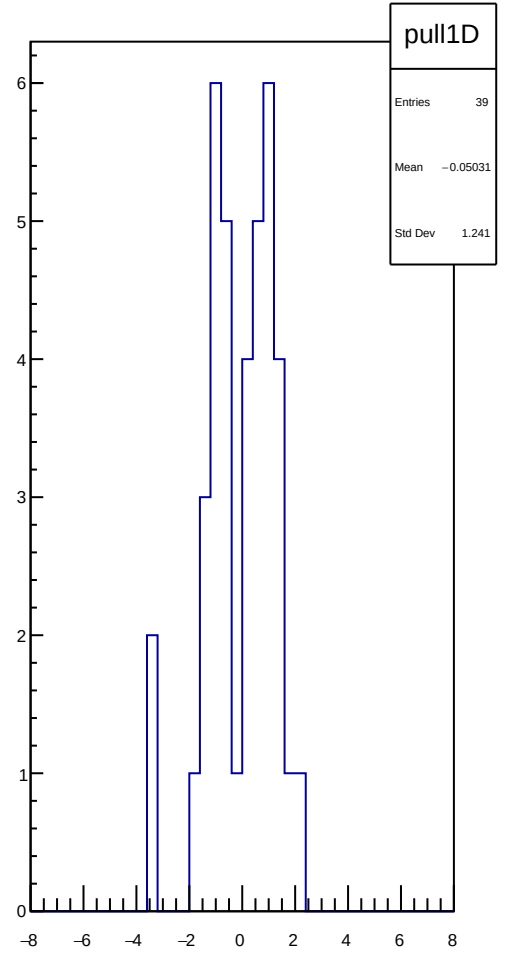

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.286e+04 / 38
p0 78.67 ± 0.09503
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

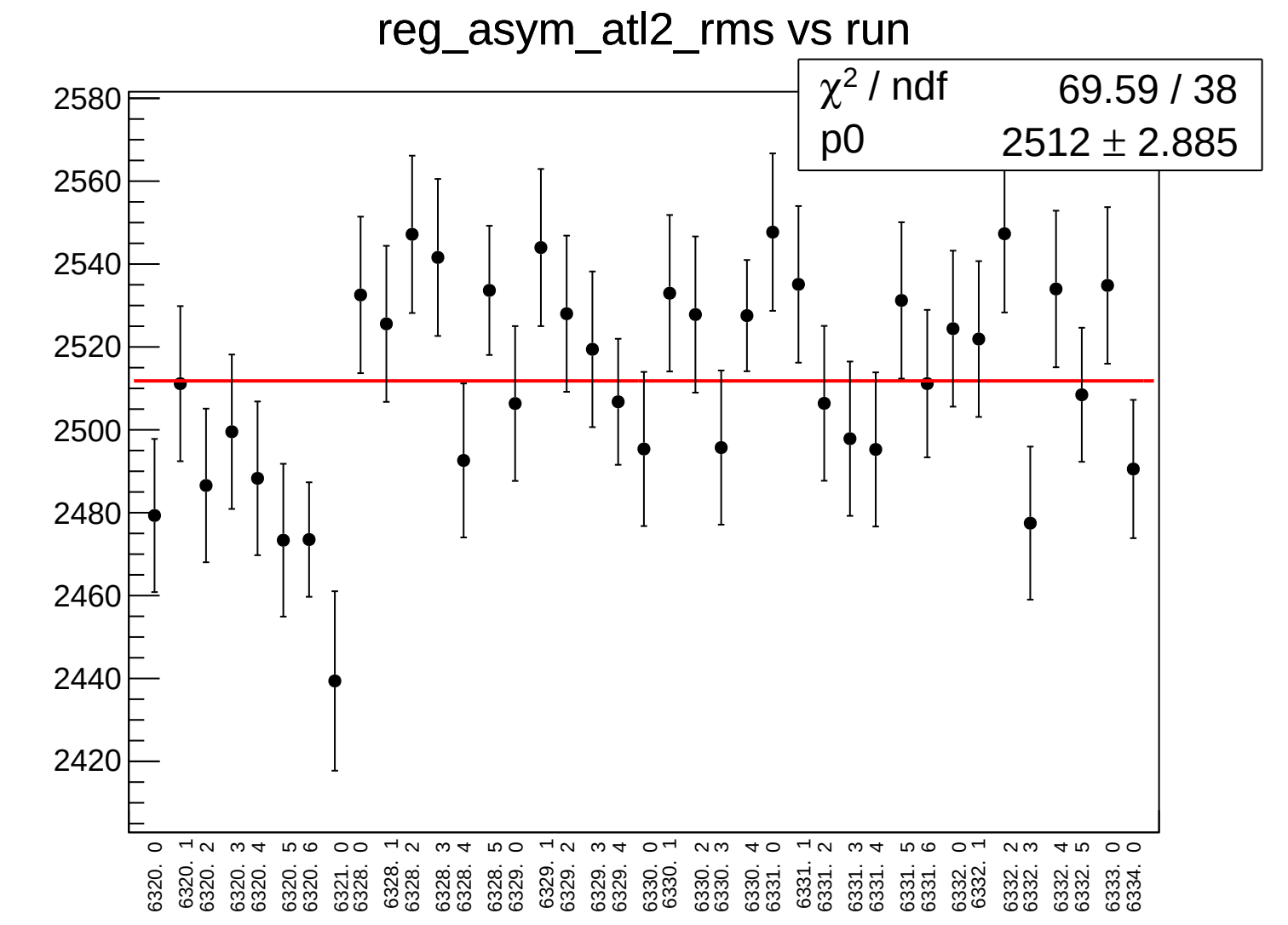

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.83 / 38
p0 −1.517e−14 ± 3.24e−14
pull
Entries 39
Mean −12.38
Std Dev 65.11

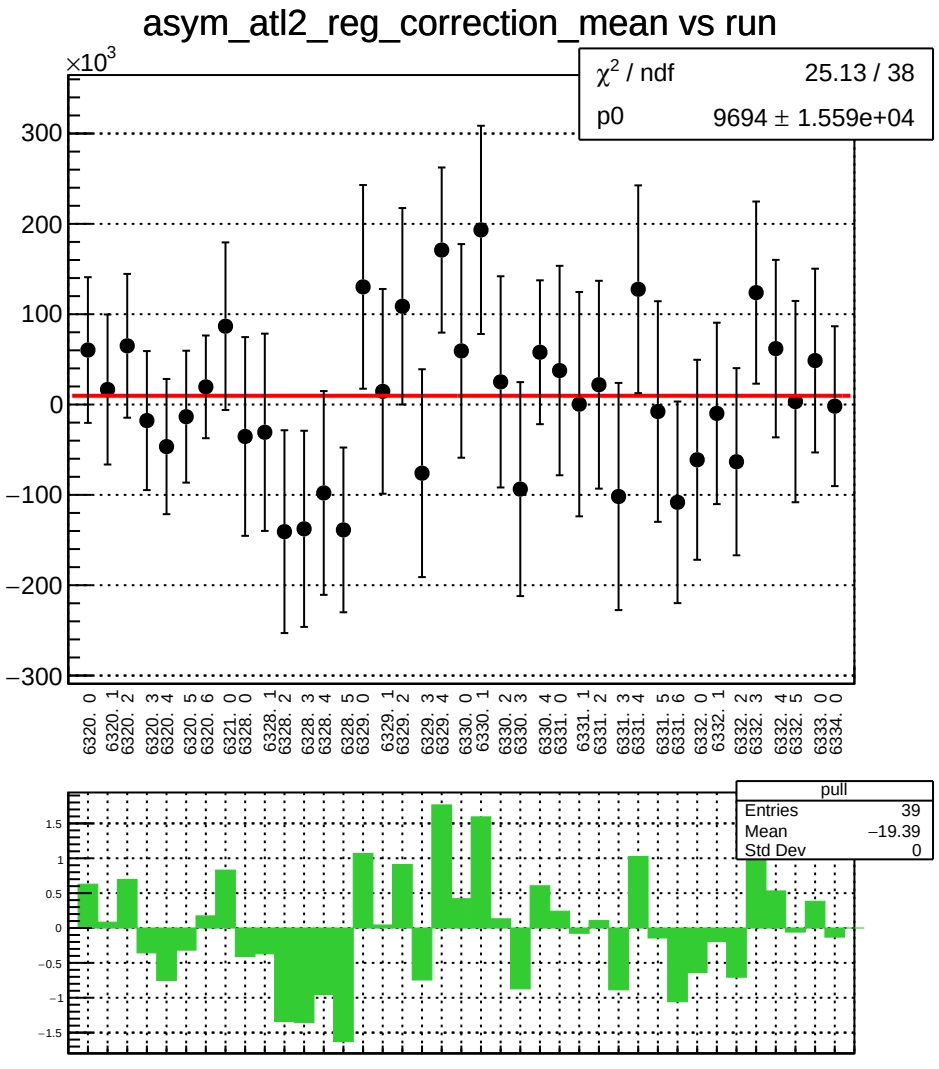

pull1D
Entries 39
Mean 0.00719
Std Dev 0.9717

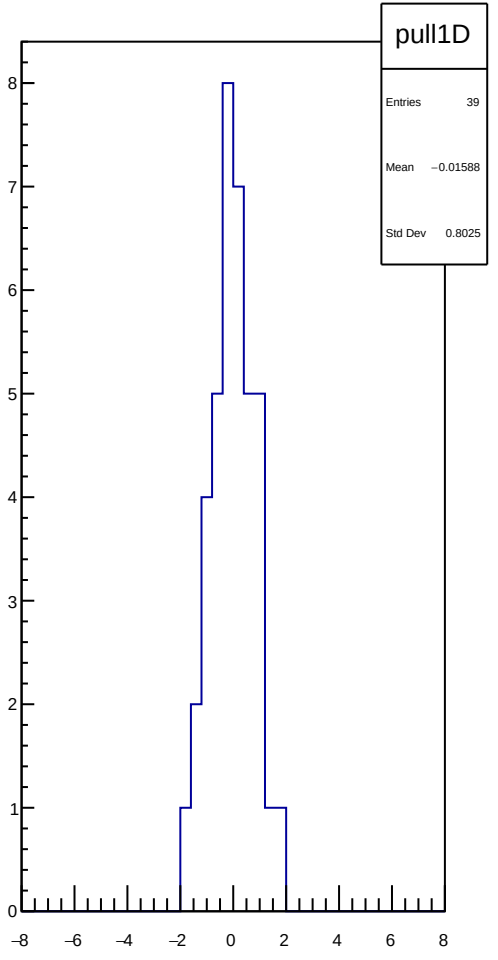

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.147e+05 / 38
p0 1.689e−11 ± 2.291e−14
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

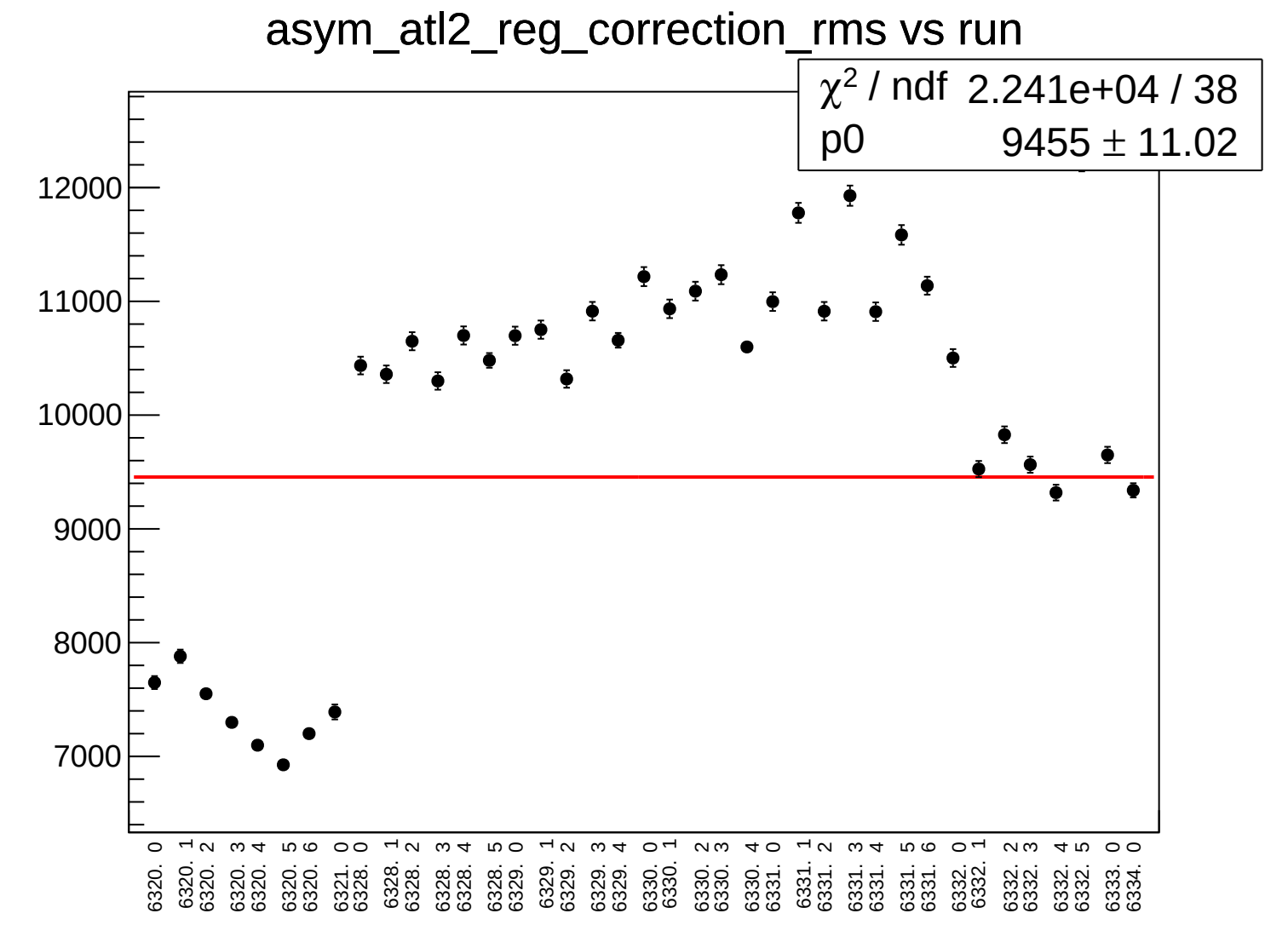

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 60.14 / 38
p0 −804 ± 4080
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −66.63
Std Dev 0
2
1
0
−1
−2
−3

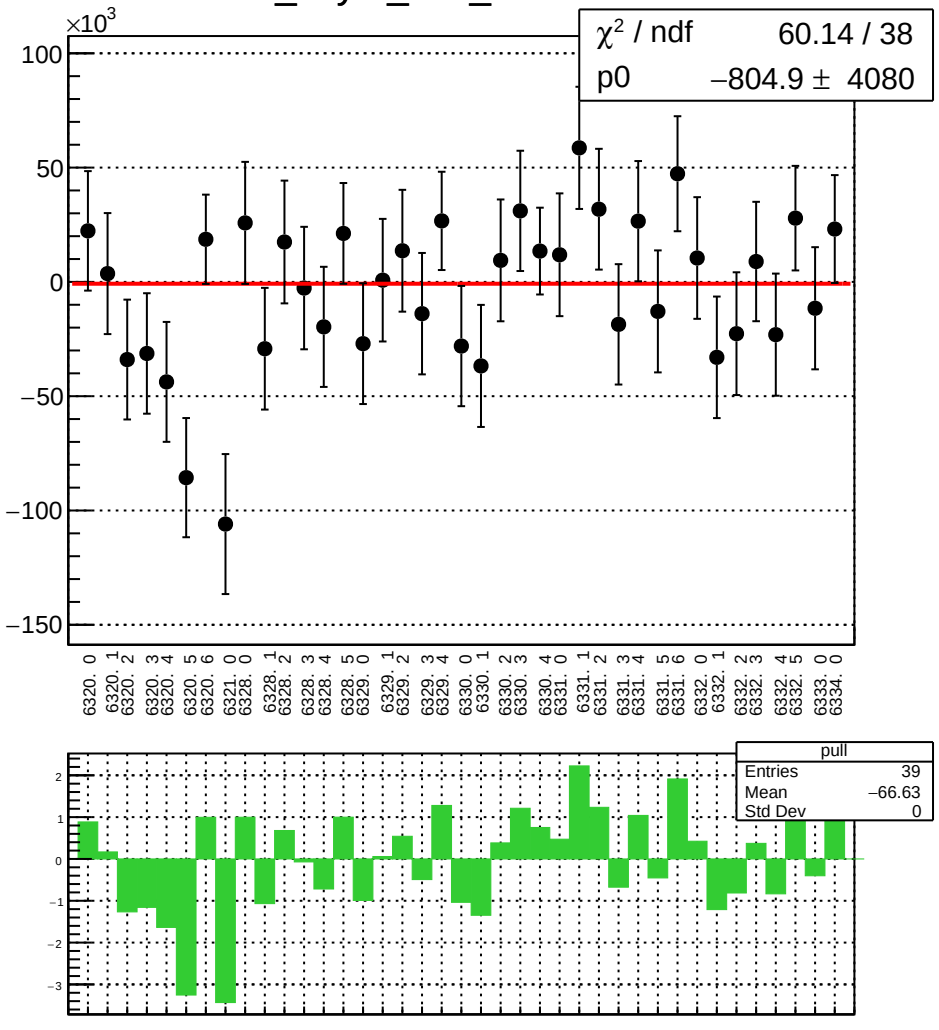

pull1D
Entries 39
Mean −0.05031
Std Dev 1.241
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

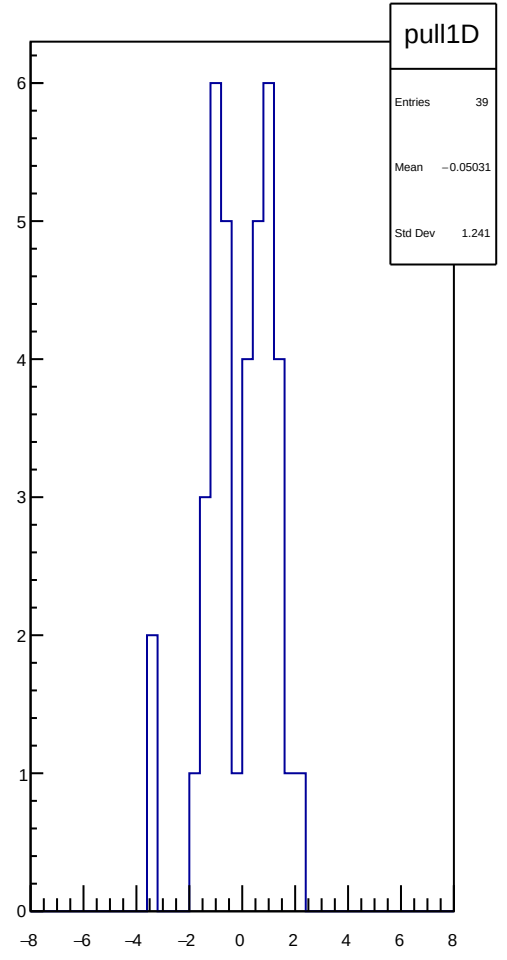

reg_asym_atl2_rms vs run
χ² / ndf 69.59 / 38
p0 2512 ± 2.885
2580
2560
2540
2520
2500
2480
2460
2440
2420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

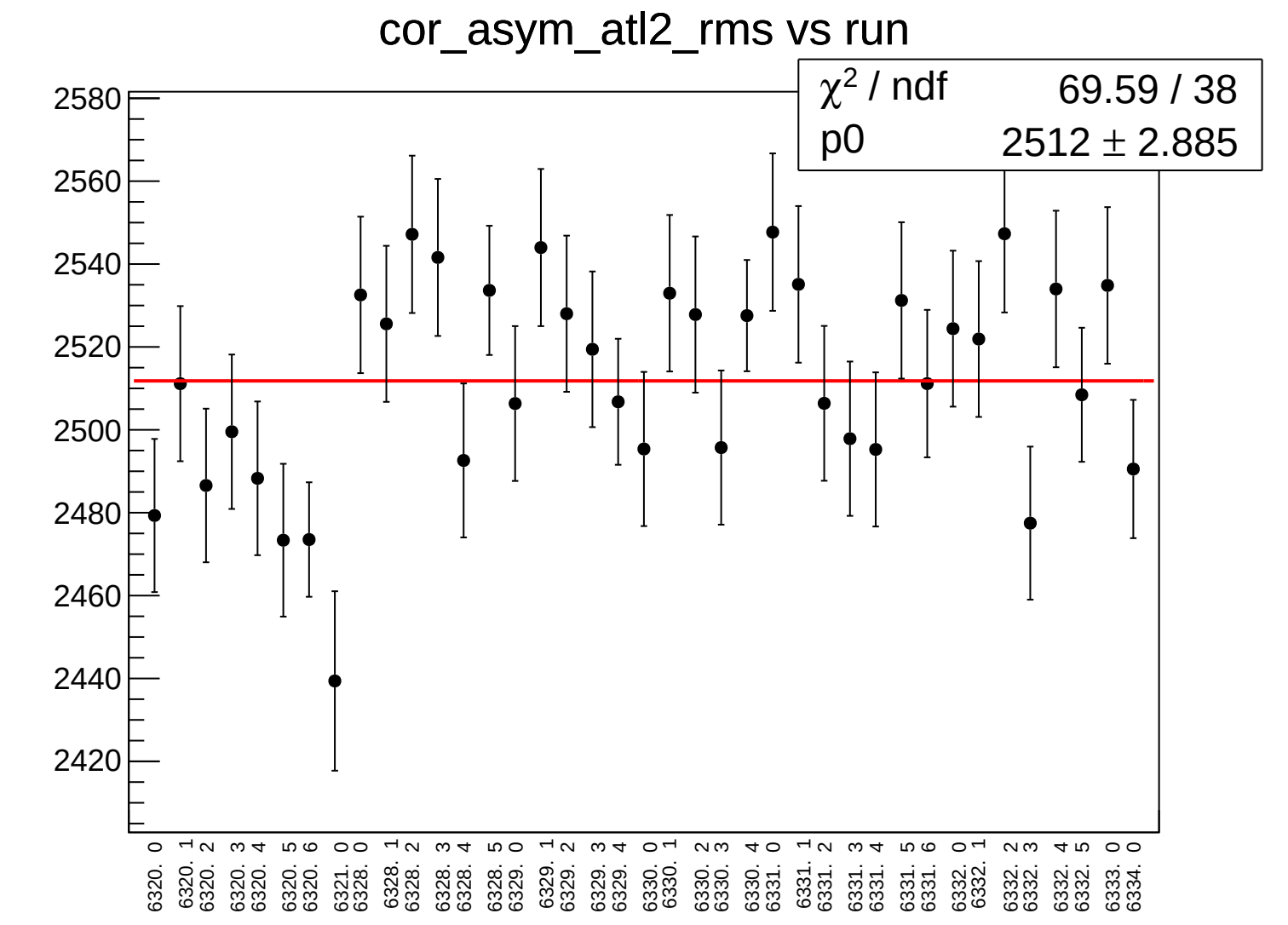

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 25.13 / 38
p0 9694 ± 1.559e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

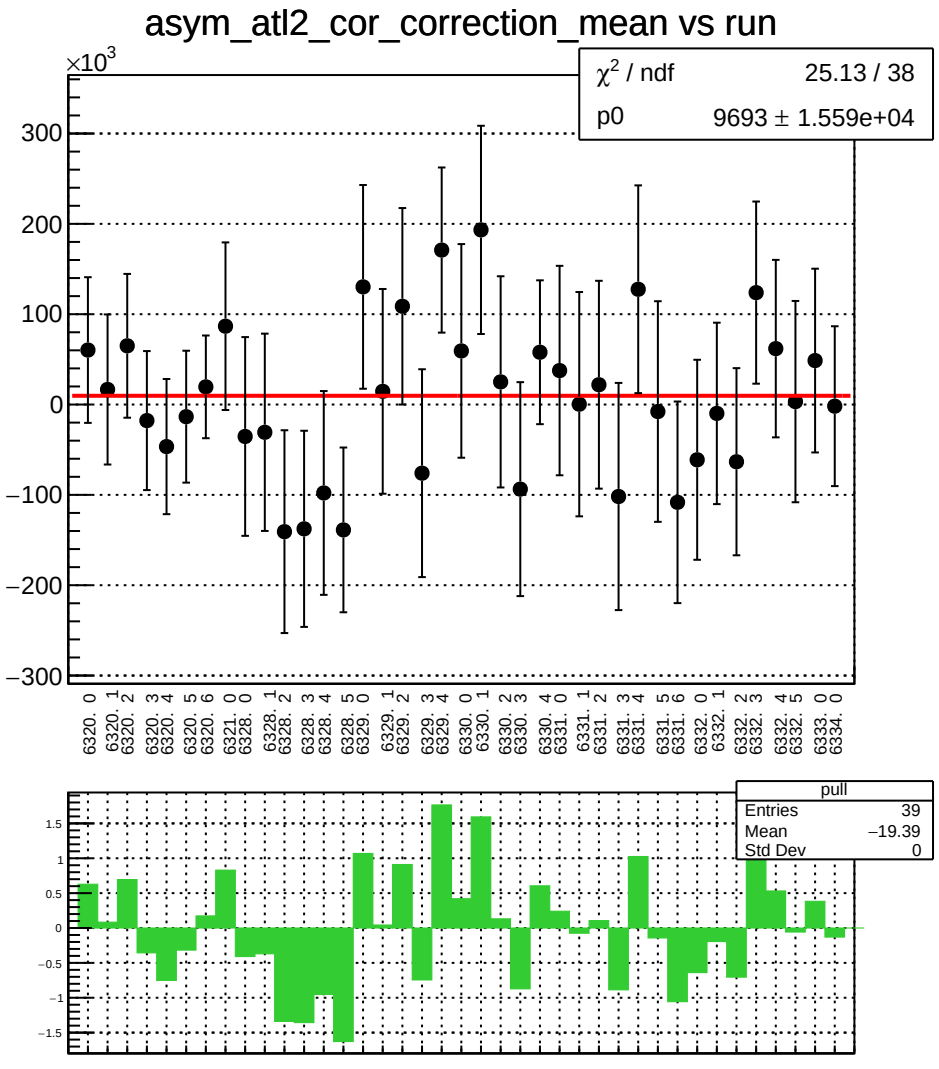

pull1D
Entries 39
Mean −0.01588
Std Dev 0.8025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

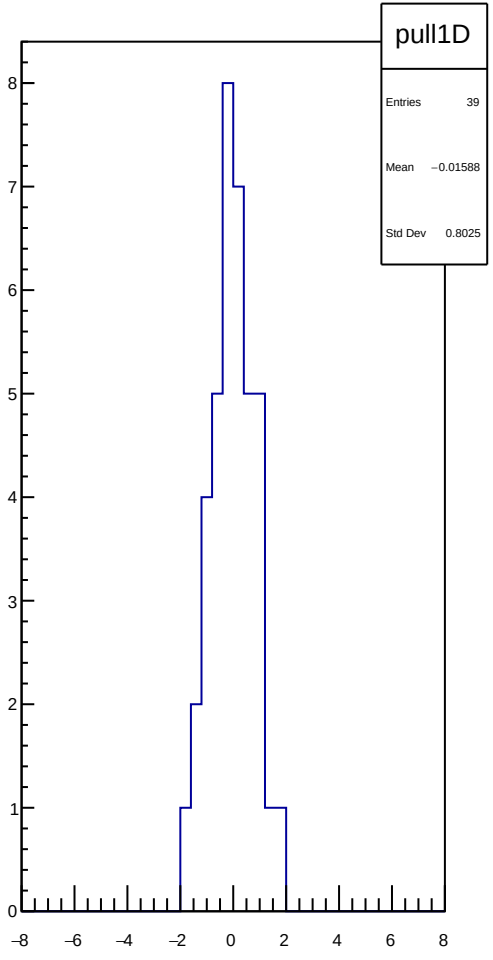

asym_atl2_reg_correction_rms vs run
χ² / ndf 2.241e+04 / 38
p0 9455 ± 11.02
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

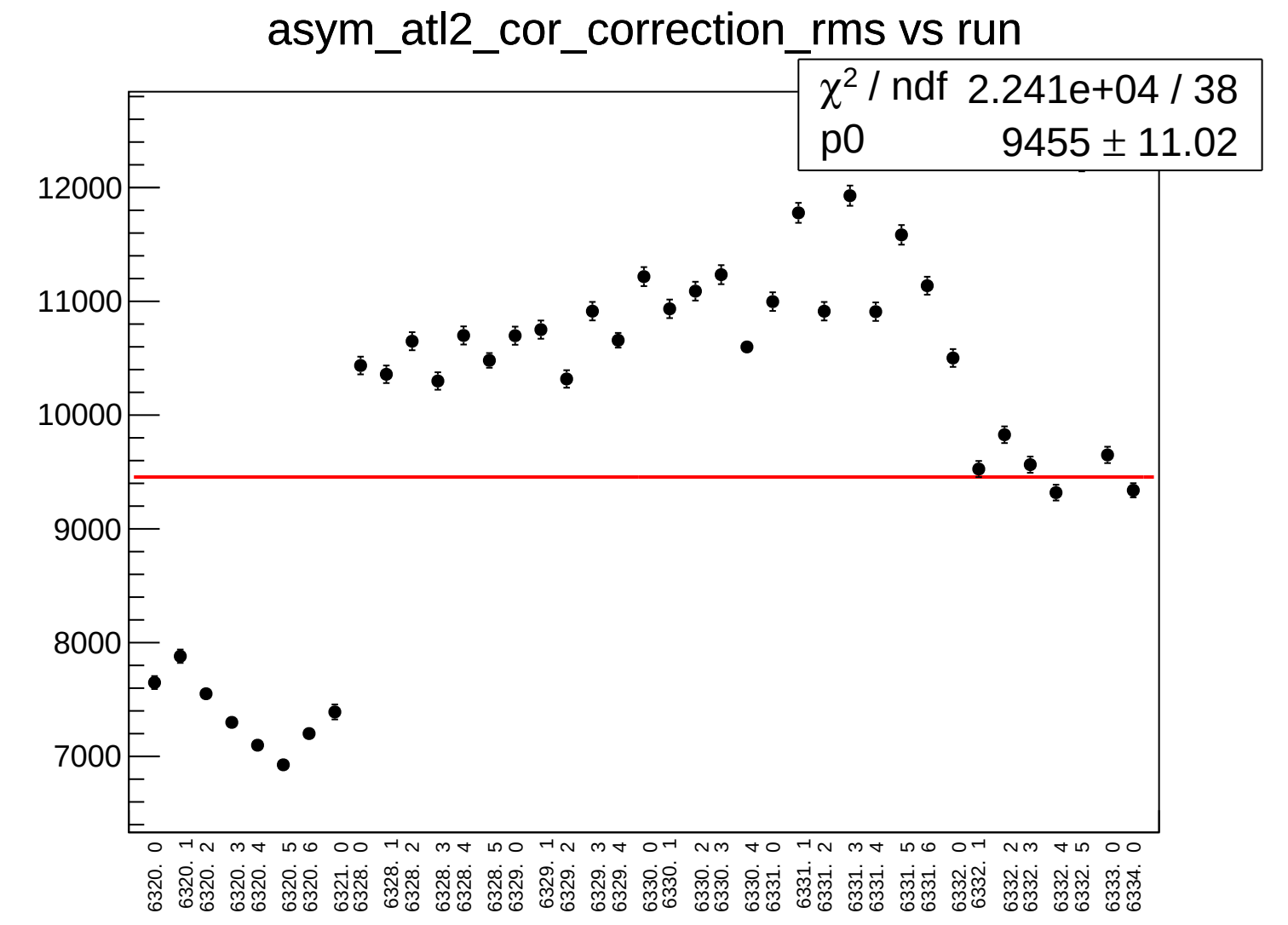

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 60.14 / 38
p0 −804.9 ± 4080
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −66.63
Std Dev 0
2
1
0
−1
−2
−3

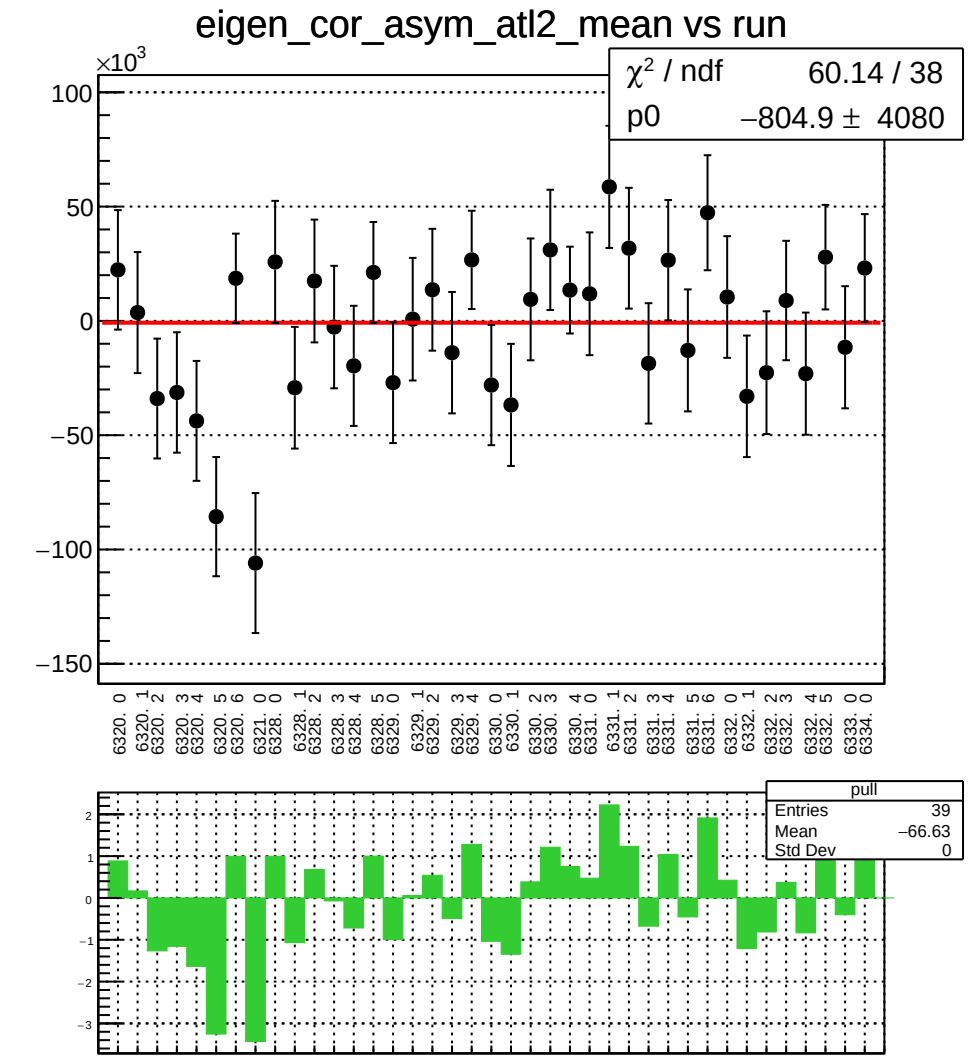

pull1D
Entries 39
Mean −0.05031
Std Dev 1.241
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

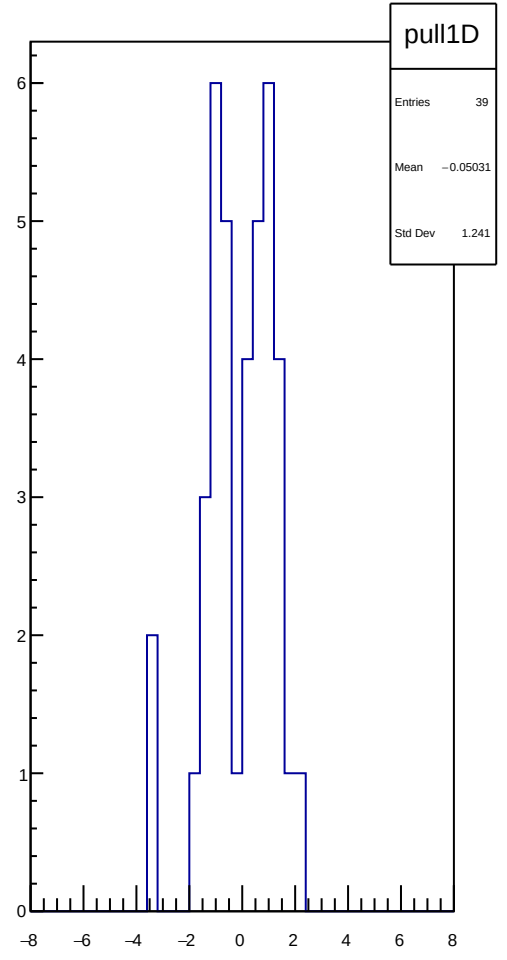

cor_asym_atl2_rms vs run
χ^2 / ndf 69.59 / 38
p0 2512 ± 2.885
2580
2560
2540
2520
2500
2480
2460
2440
2420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

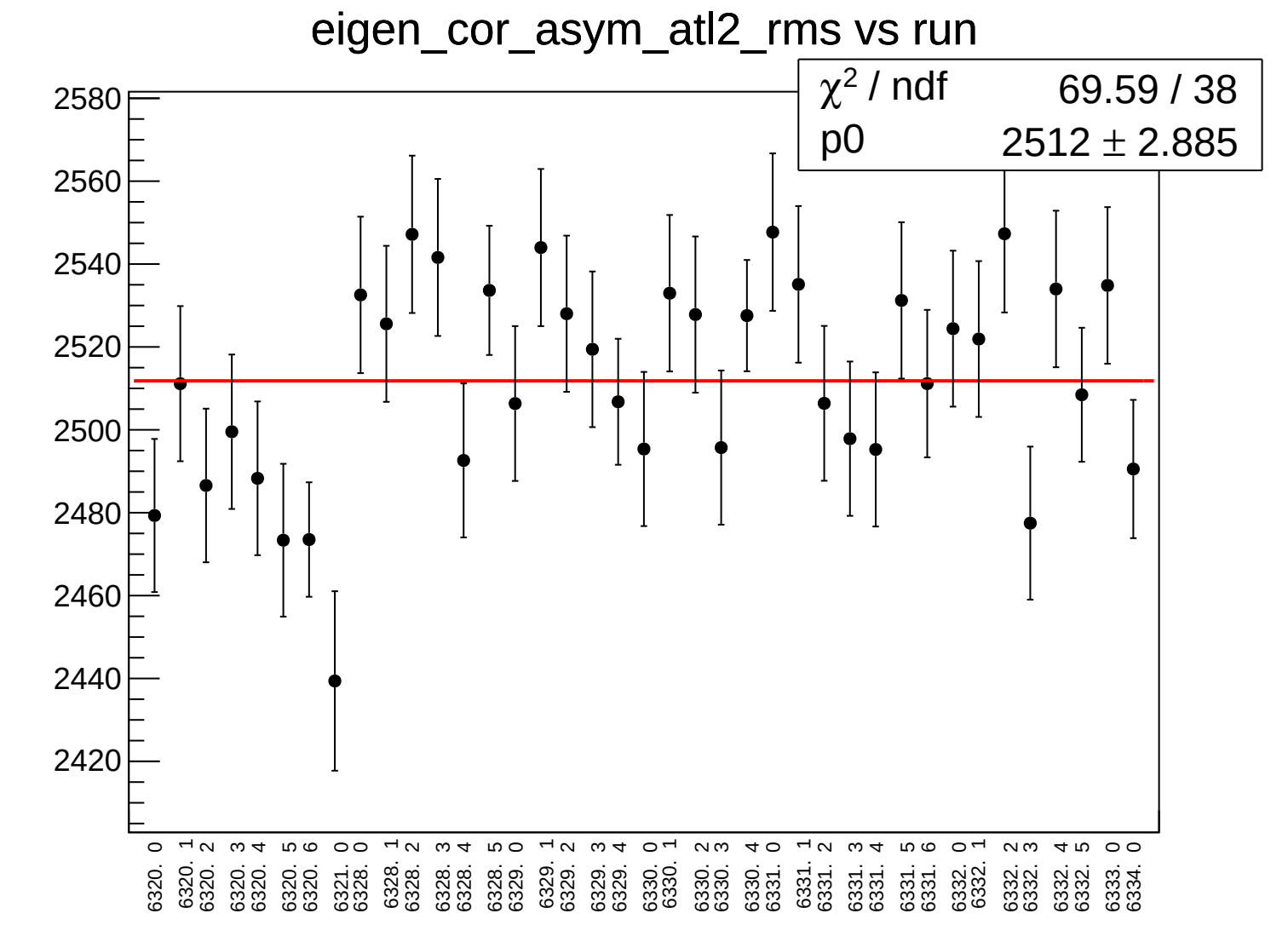

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 25.13 / 38
p0 9693 ± 1.559e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

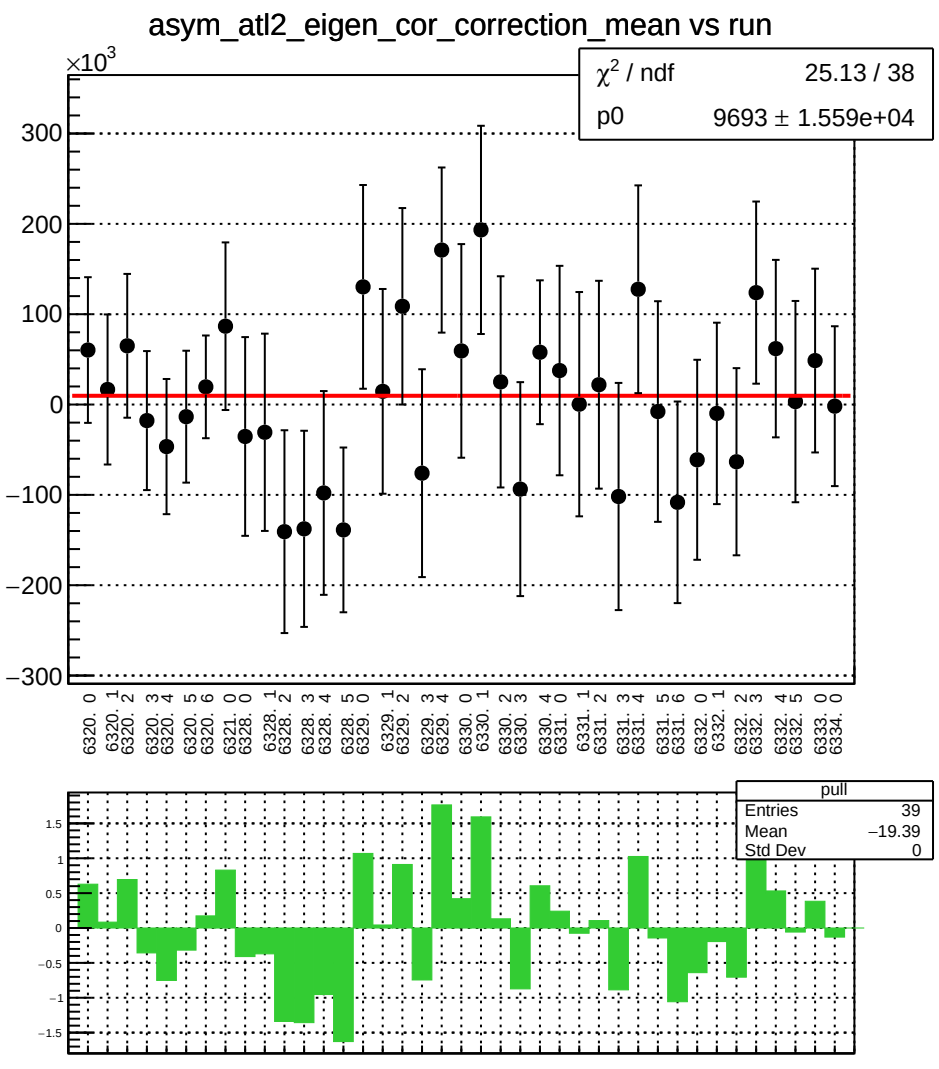

pull1D
Entries 39
Mean −0.01588
Std Dev 0.8025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

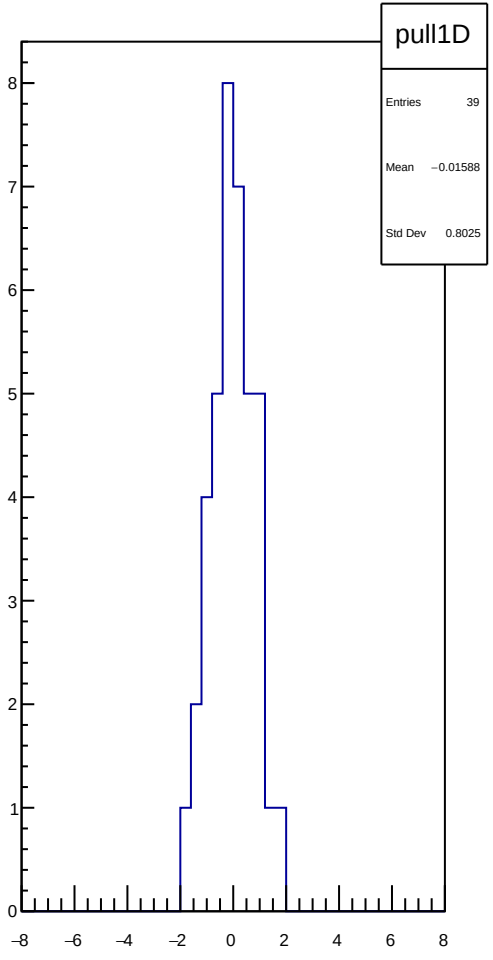

asym_atl2_cor_correction_rms vs run
χ² / ndf 2.241e+04 / 38
p0 9455 ± 11.02
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

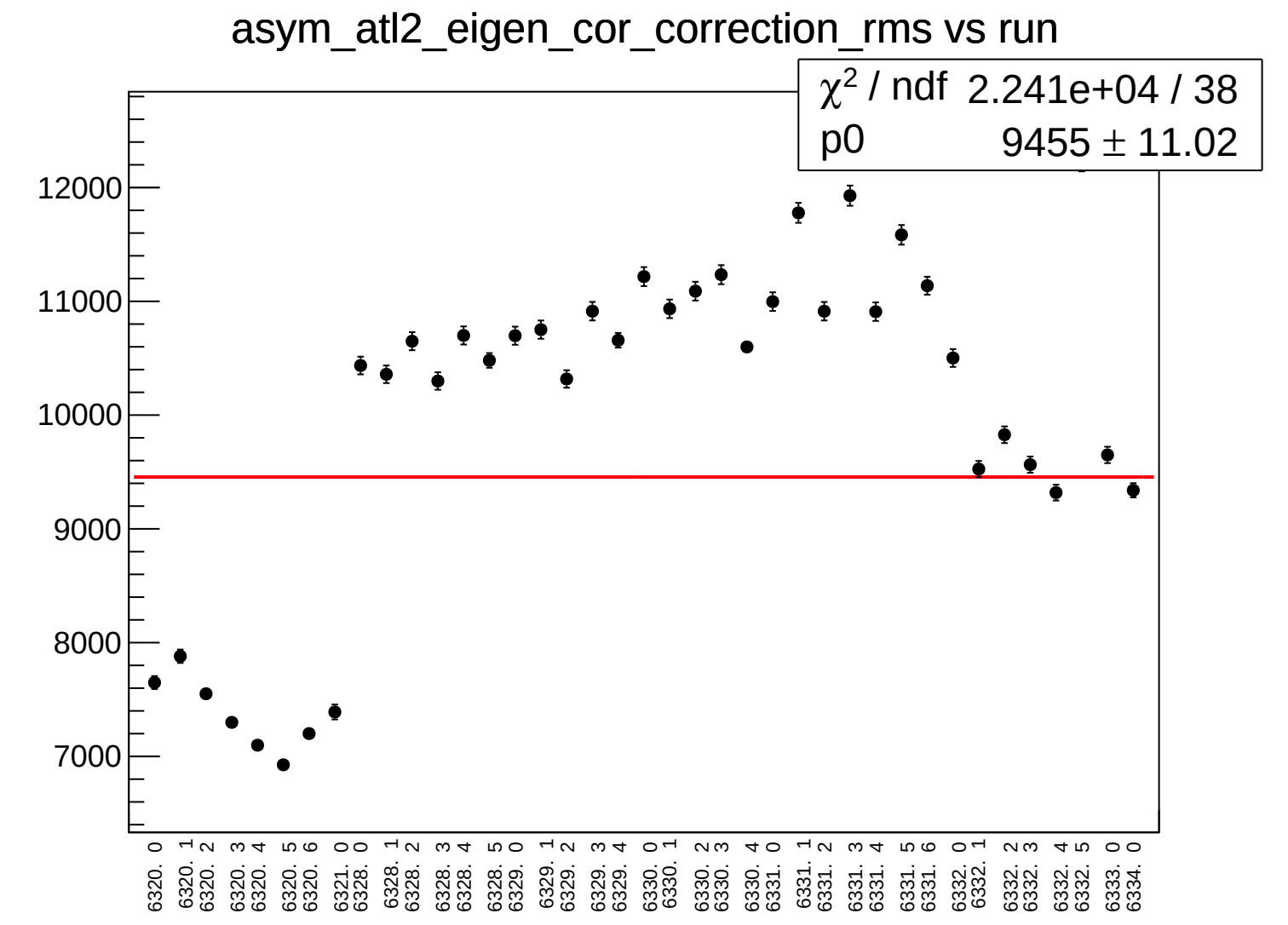

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 60.14 / 38
p0 −804.9 ± 4080
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −66.63
Std Dev 0
2
1
0
−1
−2
−3

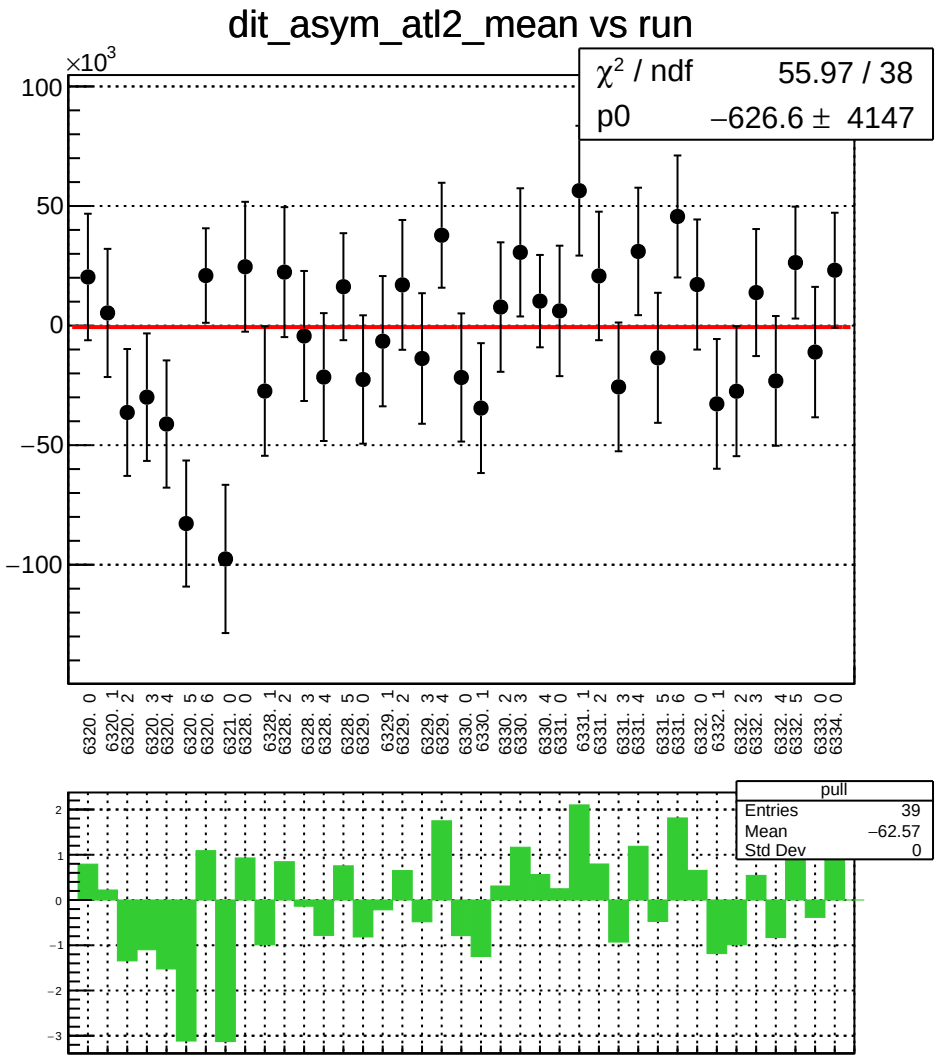

pull1D
Entries 39
Mean −0.05031
Std Dev 1.241
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

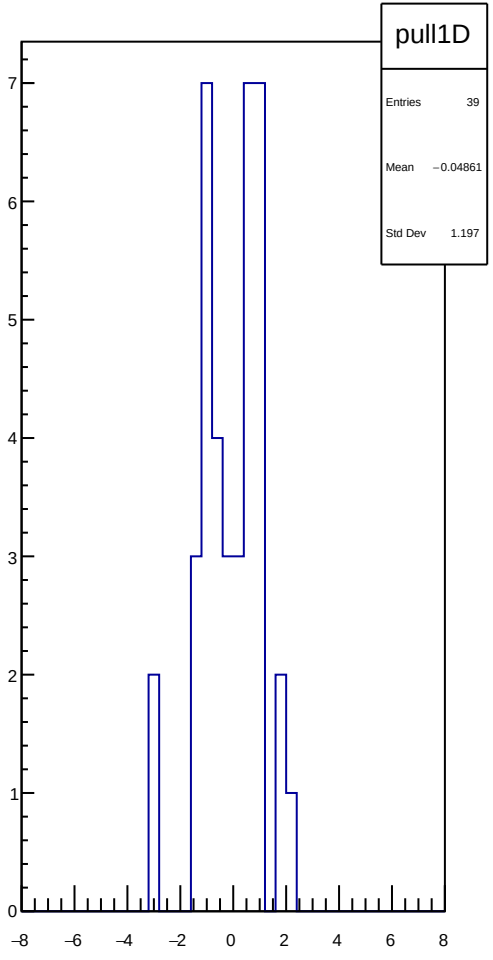

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 69.59 / 38
p0 2512 ± 2.885
2580
2560
2540
2520
2500
2480
2460
2440
2420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

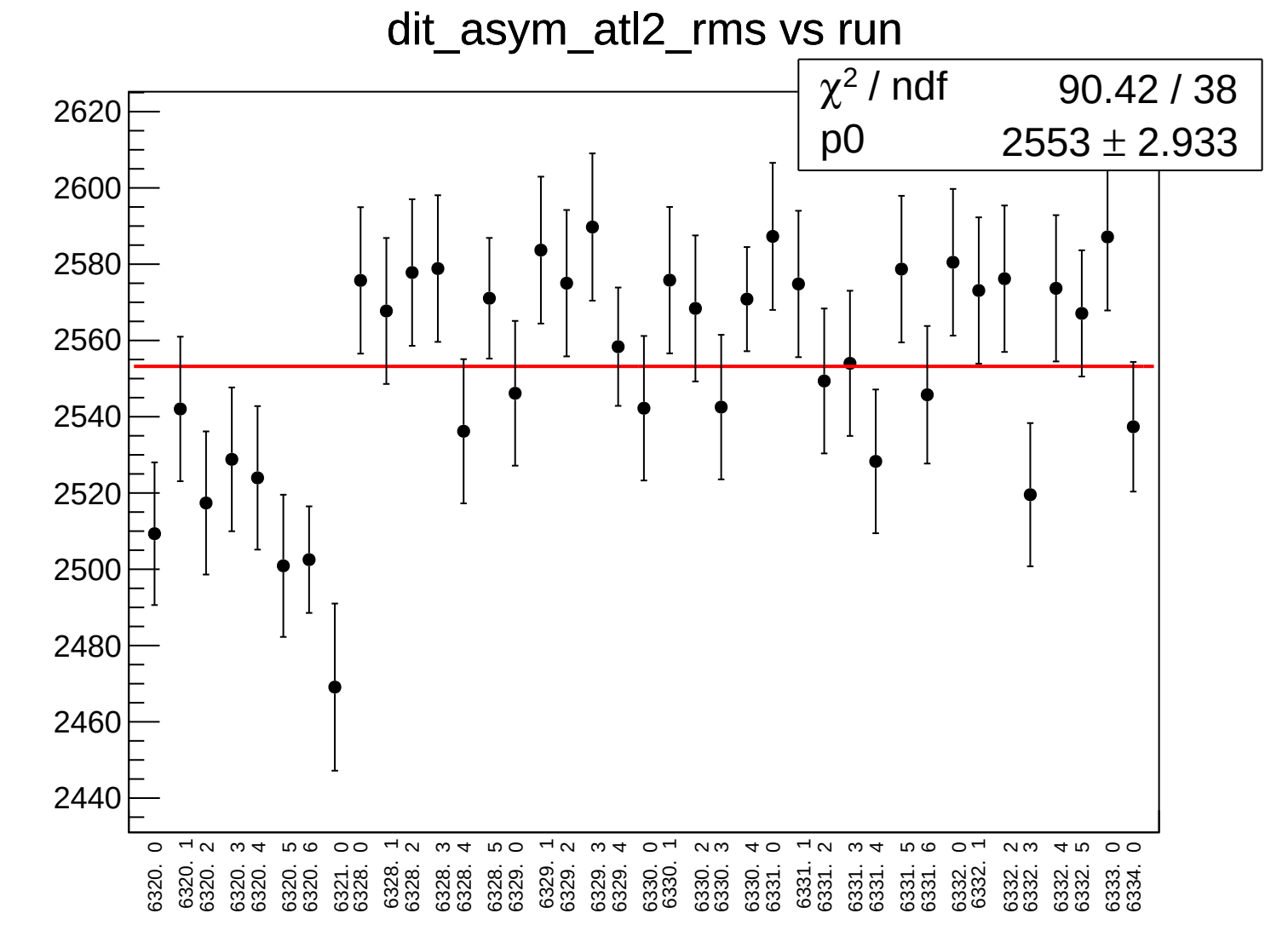

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.13 / 38
p0 9693 ± 1.559e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

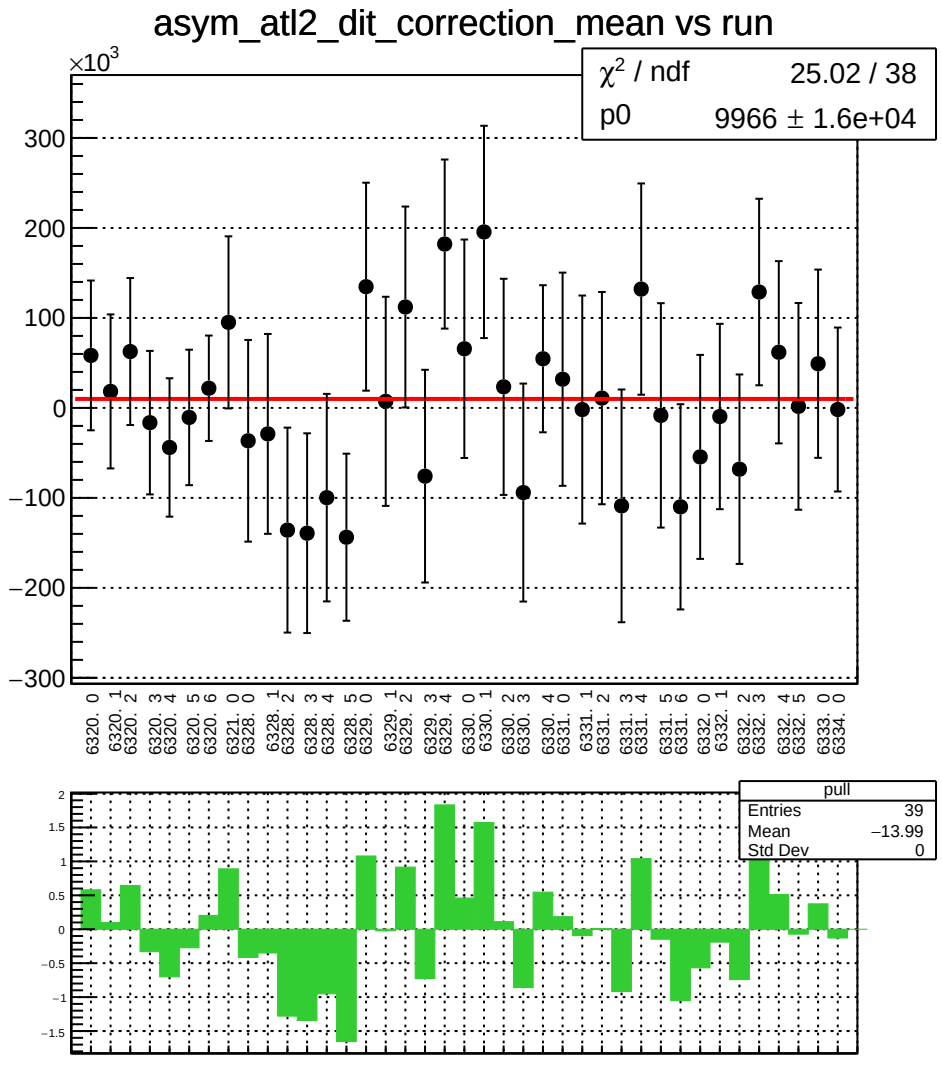

pull1D
Entries 39
Mean −0.01588
Std Dev 0.8025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

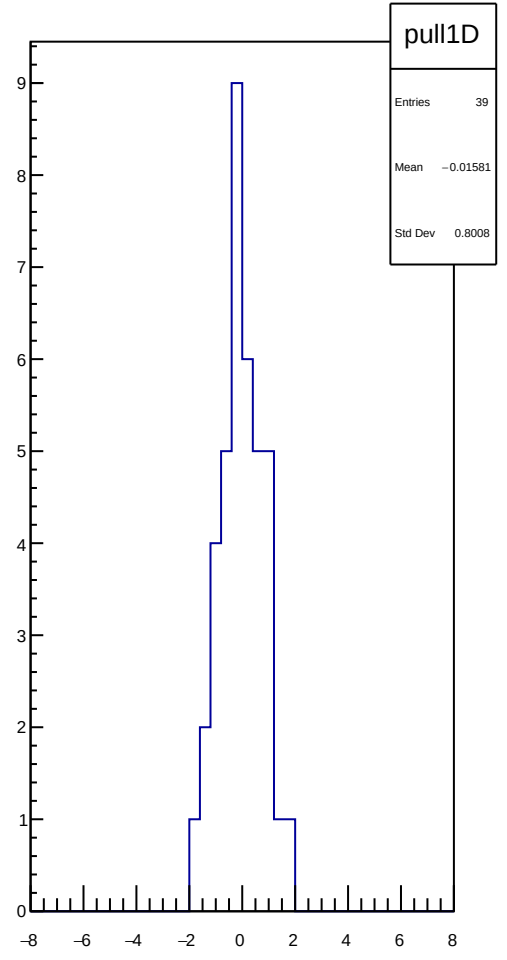

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.241e+04 / 38
p0 9455 ± 11.02
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

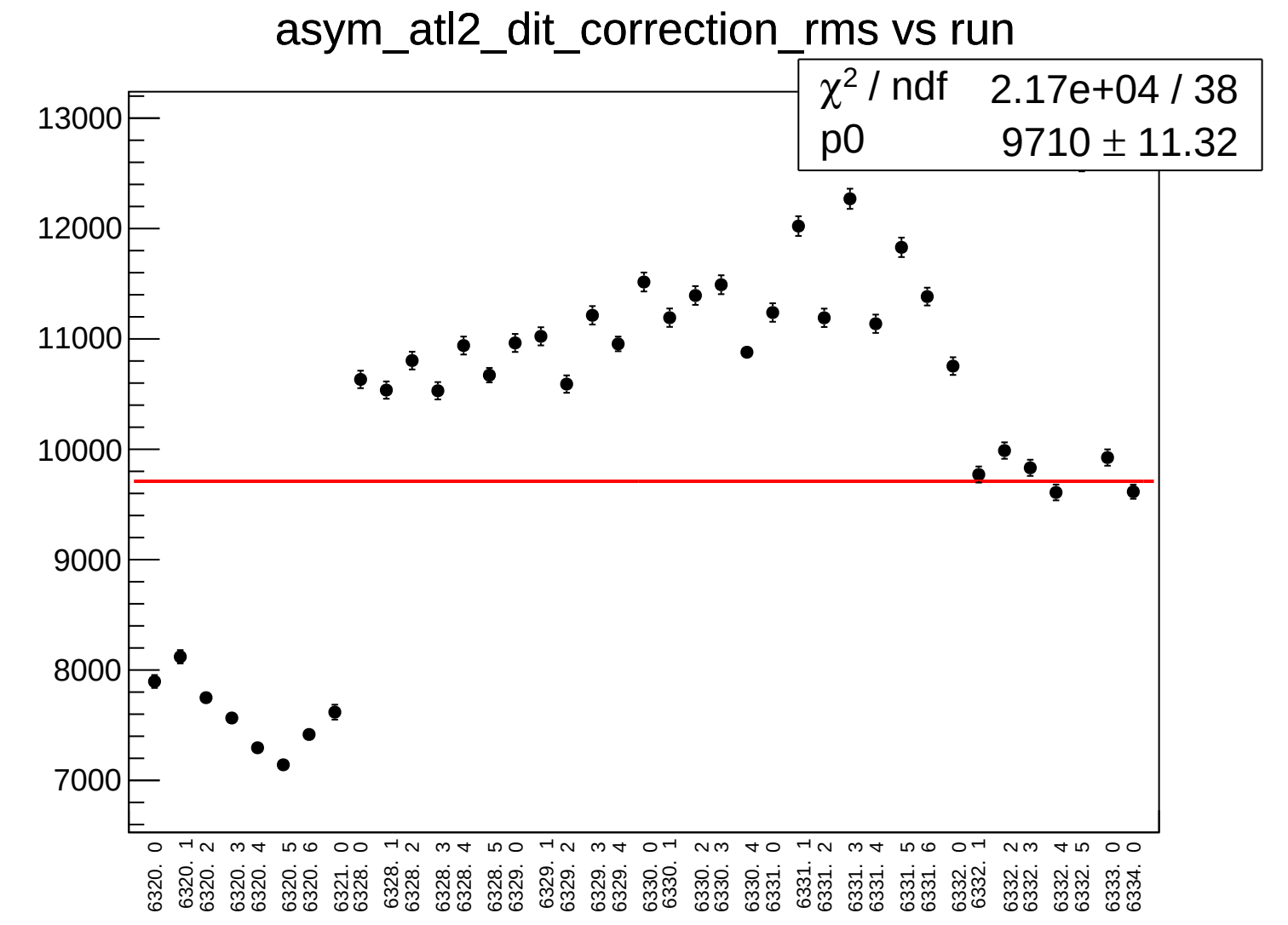

dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 55.97 / 38
p0 −626.6 ± 4147
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.57
Std Dev 0
2
1
0
−1
−2
−3

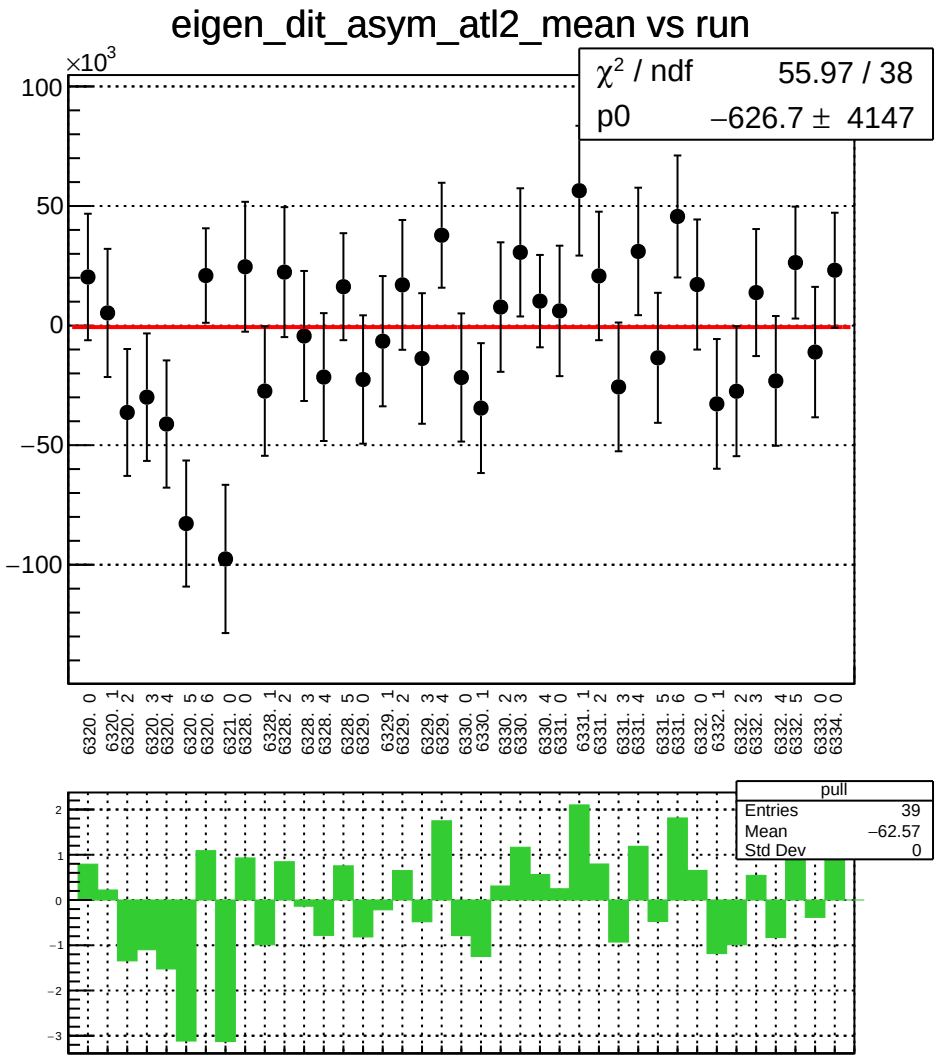

pull1D
Entries 39
Mean −0.04861
Std Dev 1.197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

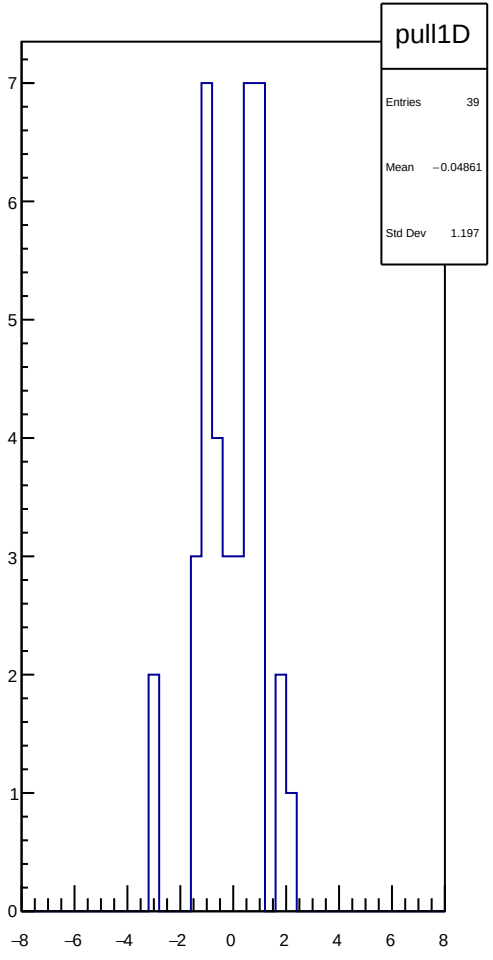

dit_asym_atl2_rms vs run
χ² / ndf 90.42 / 38
p0 2553 ± 2.933
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

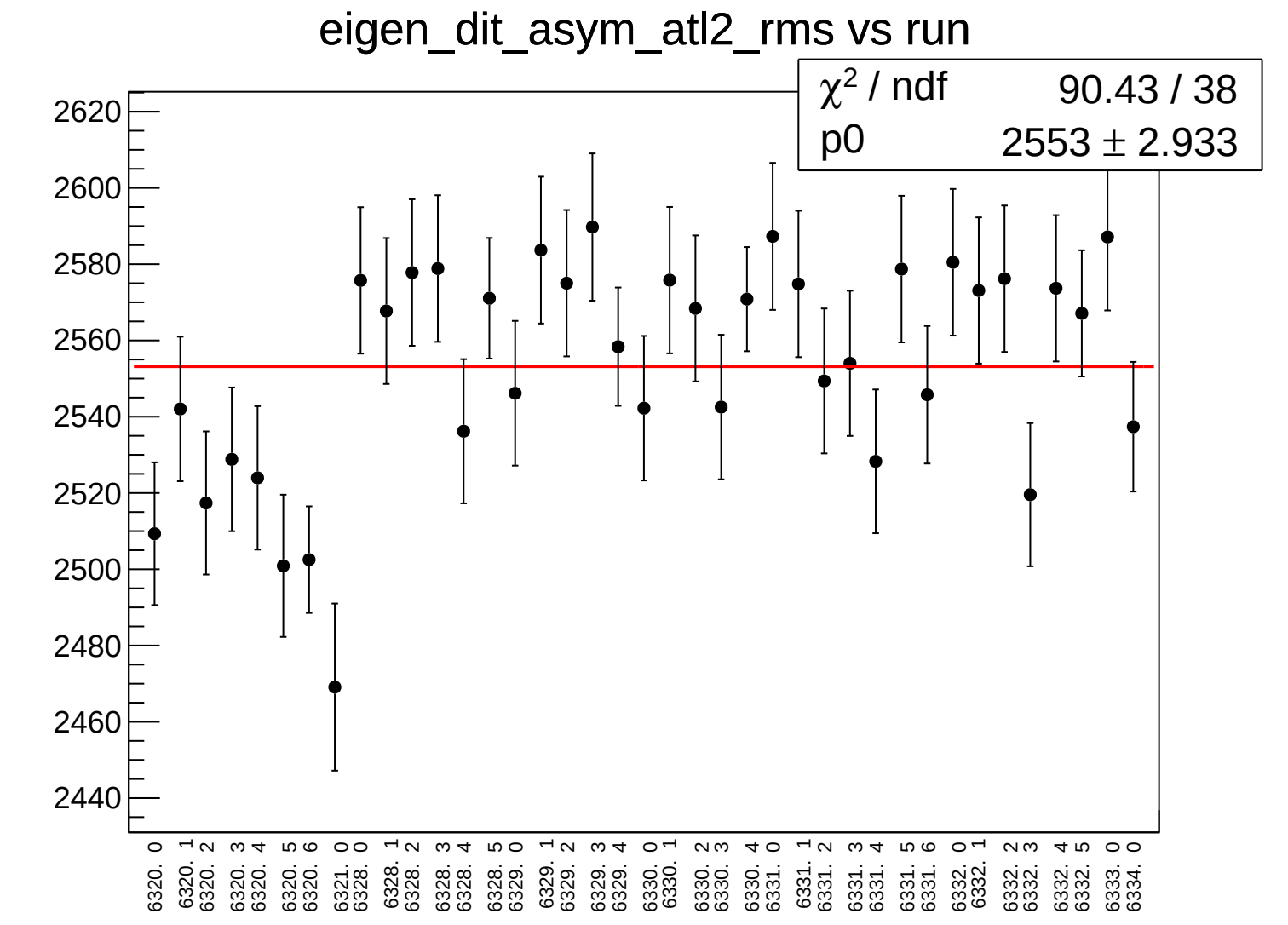

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 25.02 / 38
p0 9966 ± 1.6e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

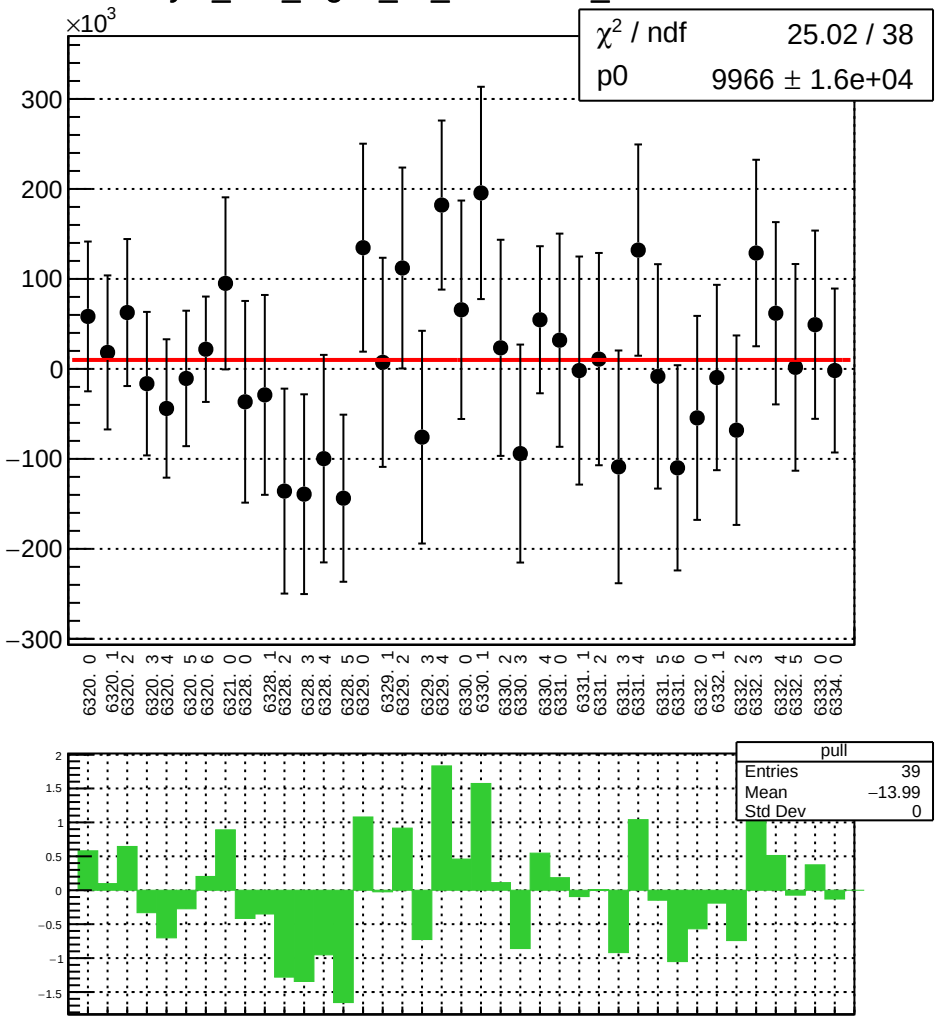

pull1D
Entries 39
Mean −0.01581
Std Dev 0.8008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

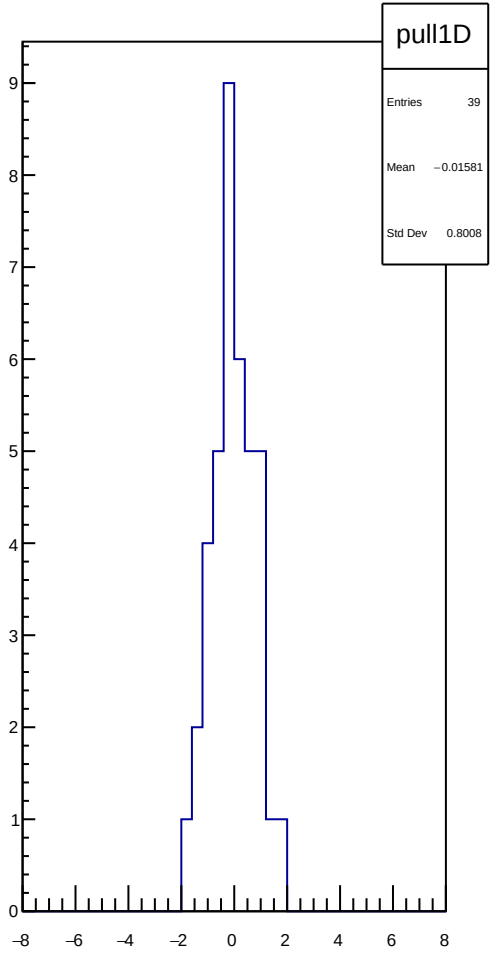

asym_atl2_dit_correction_rms vs run
χ² / ndf 2.17e+04 / 38
p0 9710 ± 11.32
13000
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

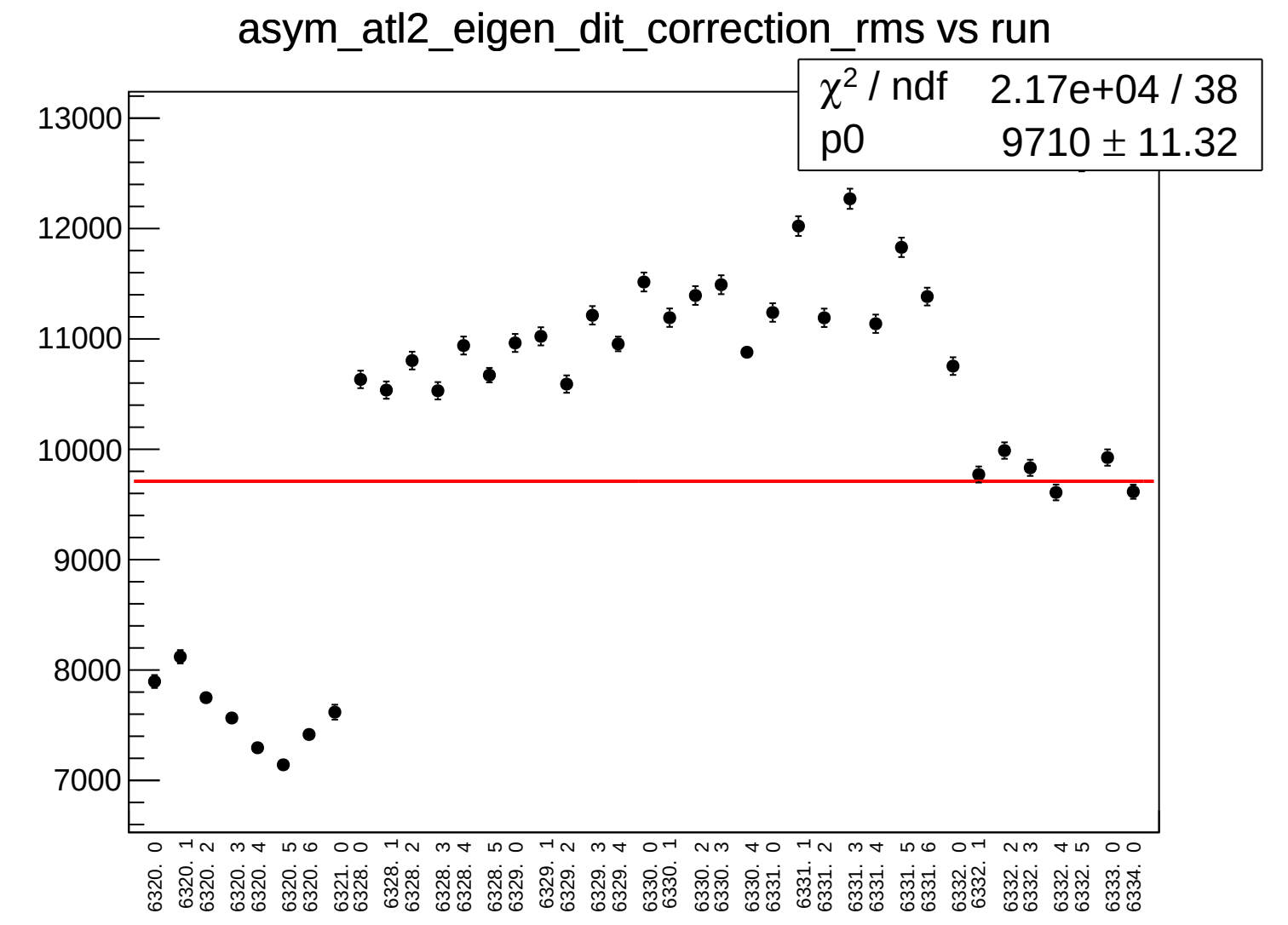

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 55.97 / 38
p0 −626.7 ± 4147
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.57
Std Dev 0
2
1
0
−1
−2
−3

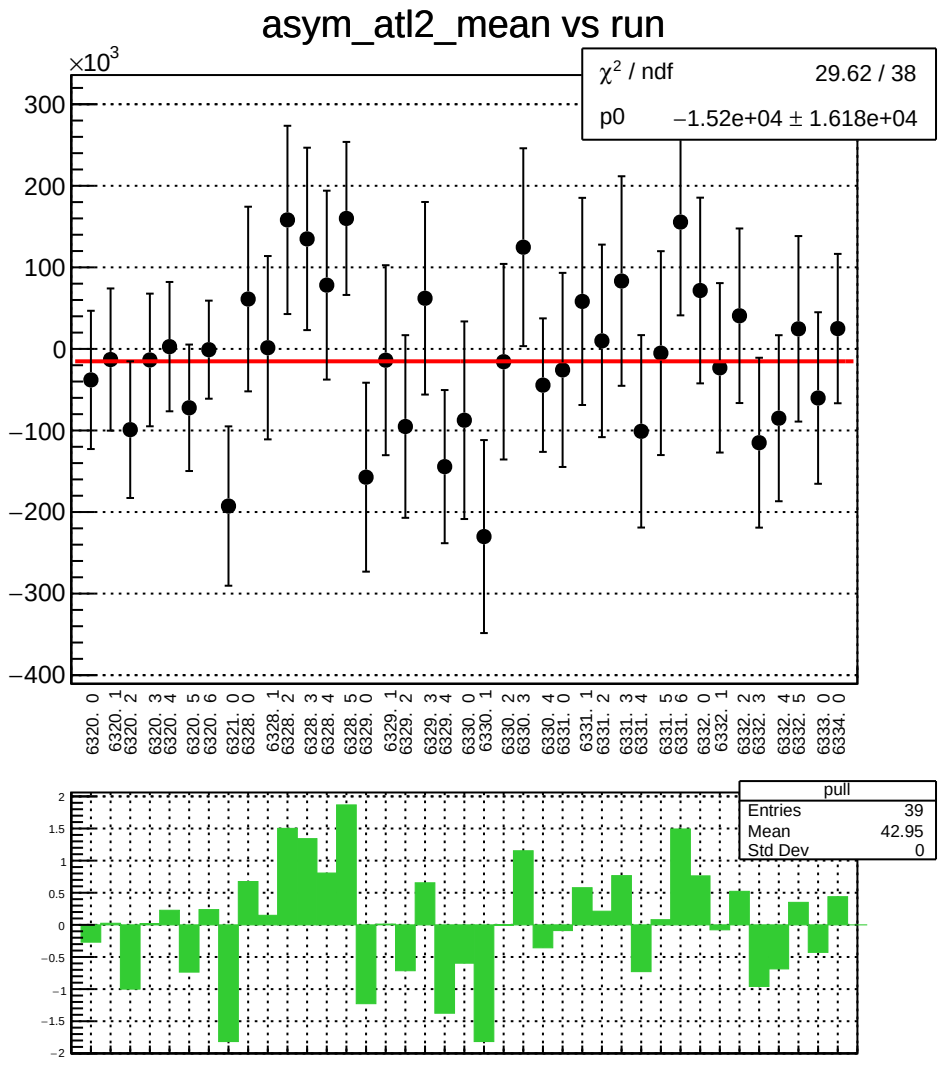

pull1D
Entries 39
Mean −0.04861
Std Dev 1.197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

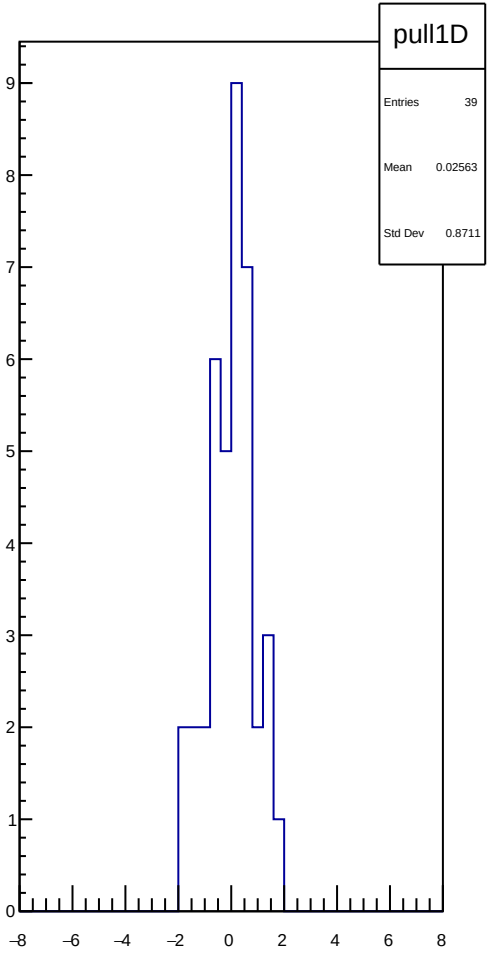

eigen_dit_asym_atl2_rms vs run
χ² / ndf 90.43 / 38
p0 2553 ± 2.933
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

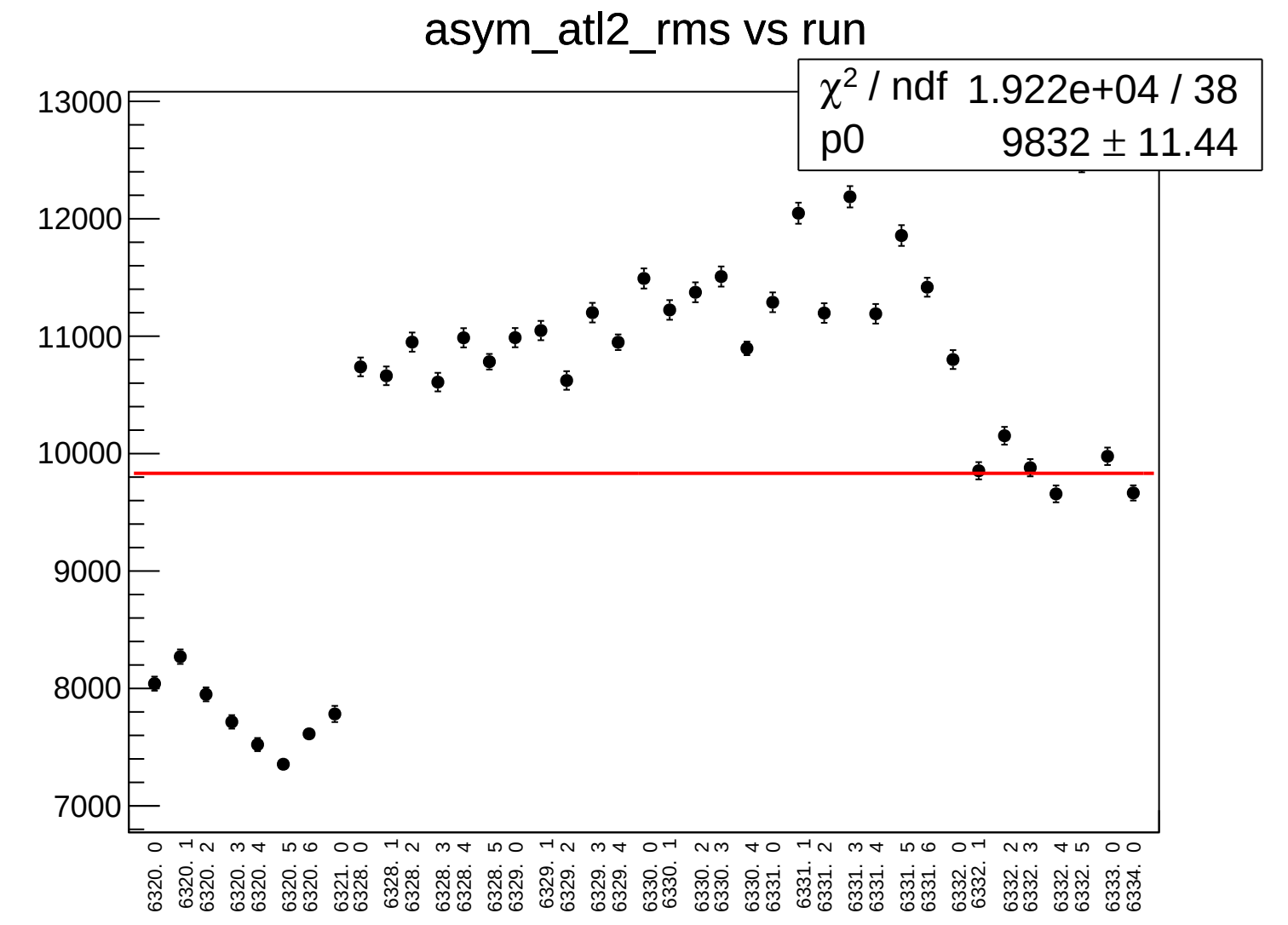

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 25.02 / 38
p0 9966 ± 1.6e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

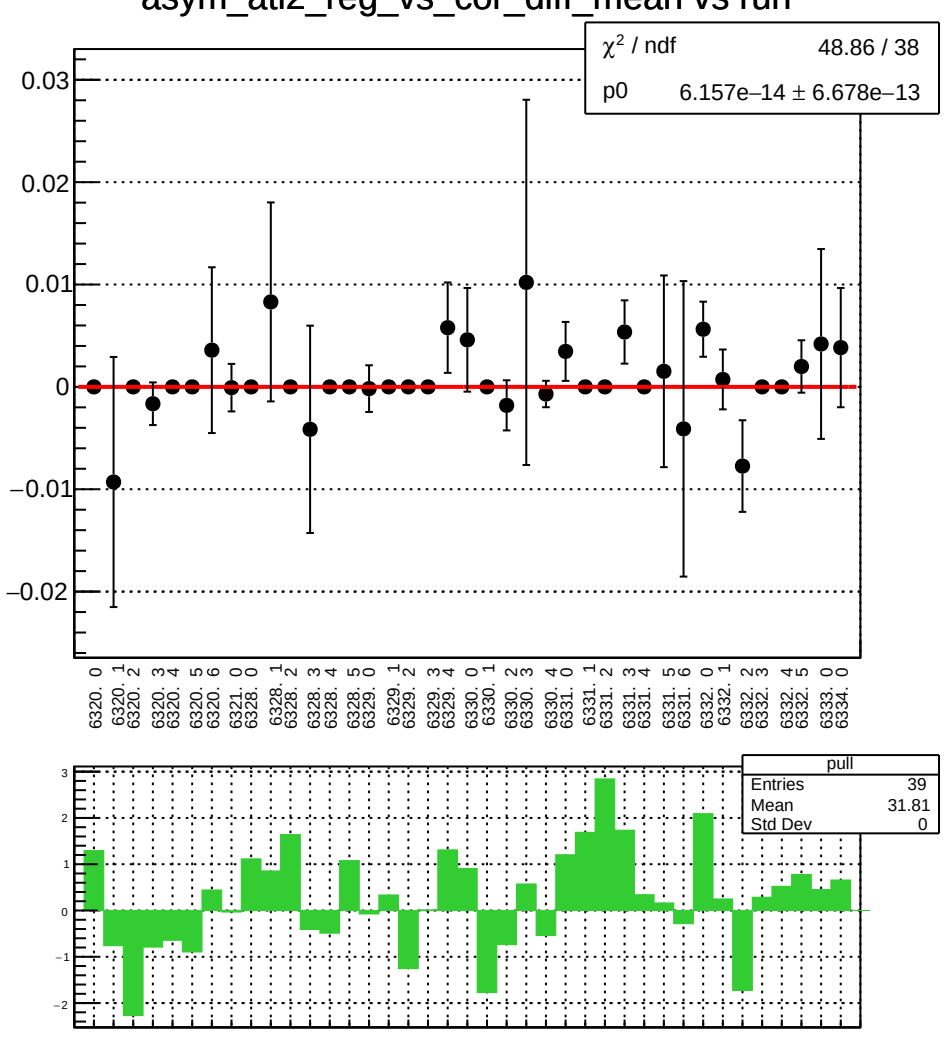

pull1D
Entries 39
Mean −0.01581
Std Dev 0.8008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

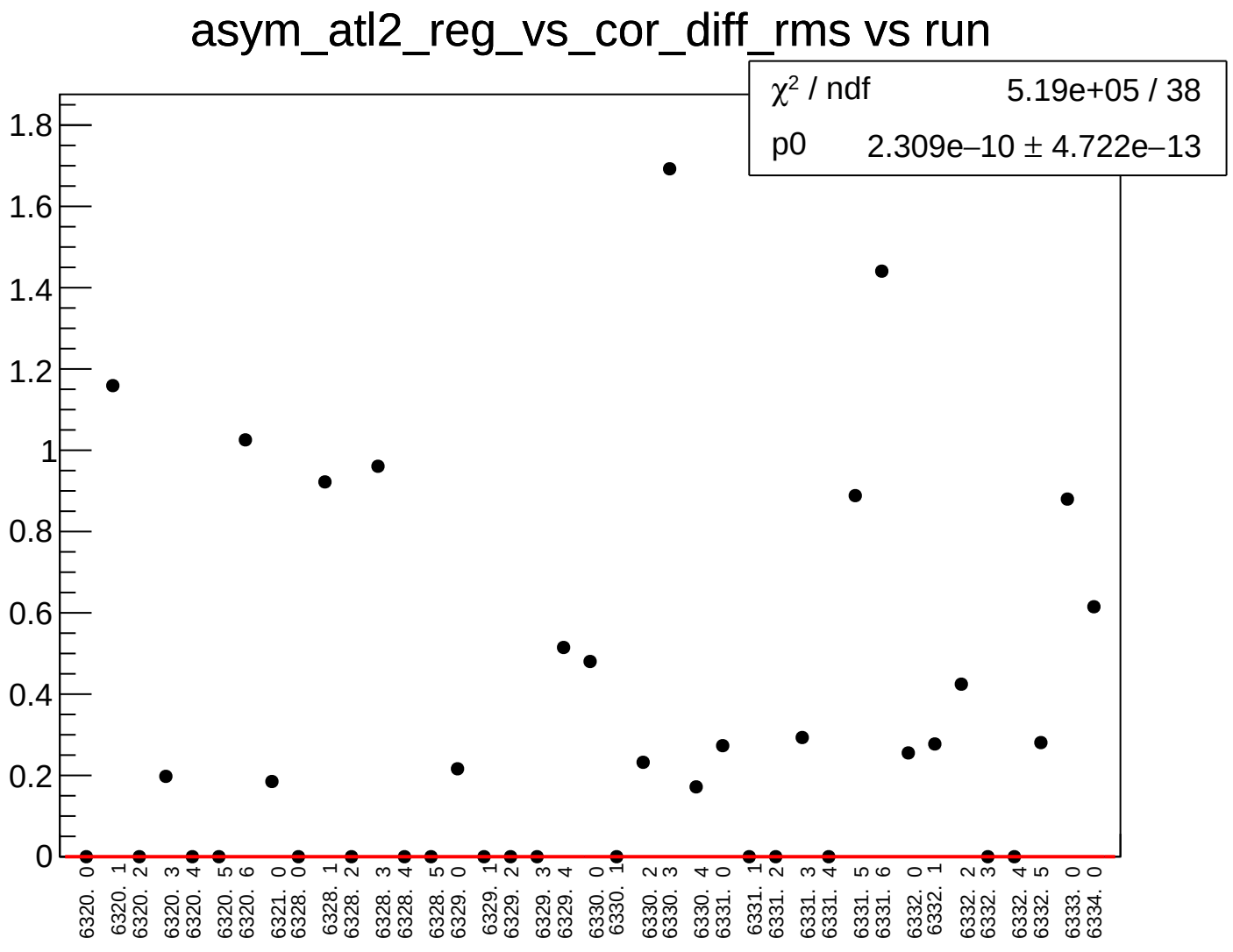

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2.17e+04 / 38
p0 9710 ± 11.32
13000
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

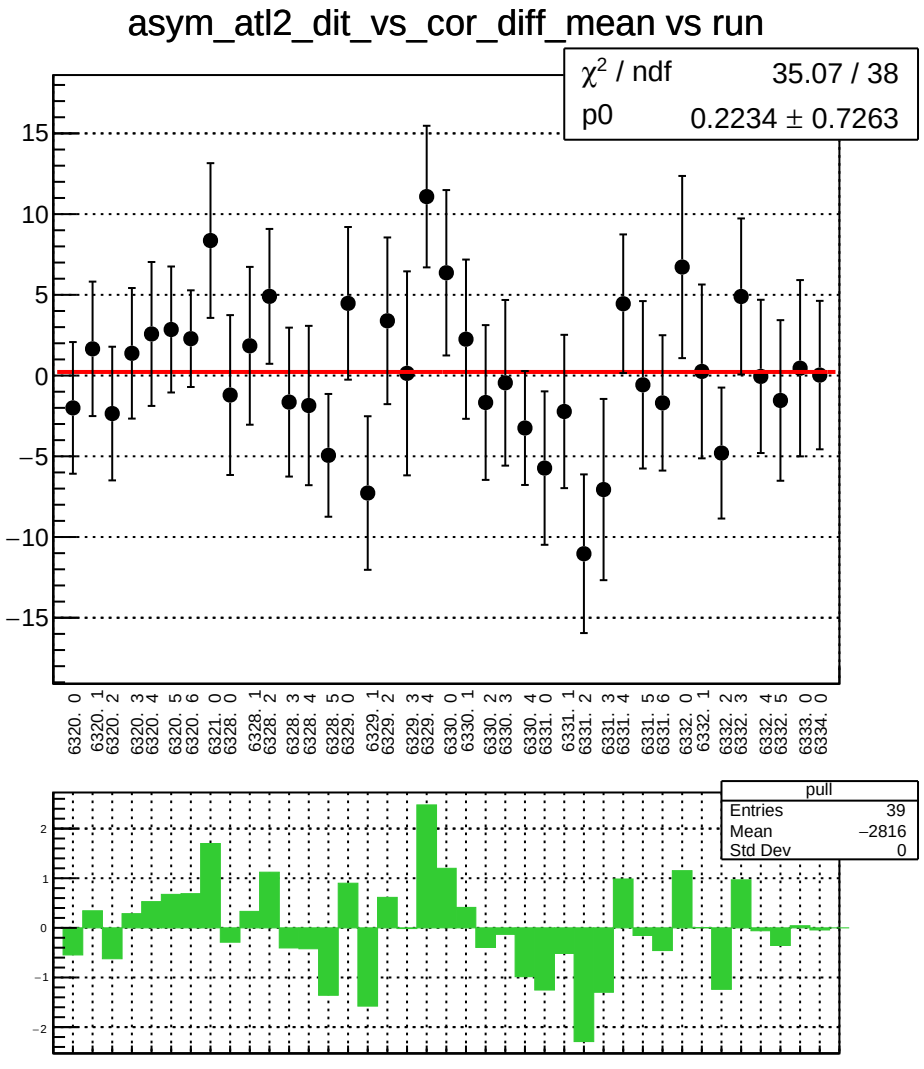

asym_atl2_mean vs run
×10^3
χ² / ndf 29.62 / 38
p0 −1.52e+04 ± 1.618e+04
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

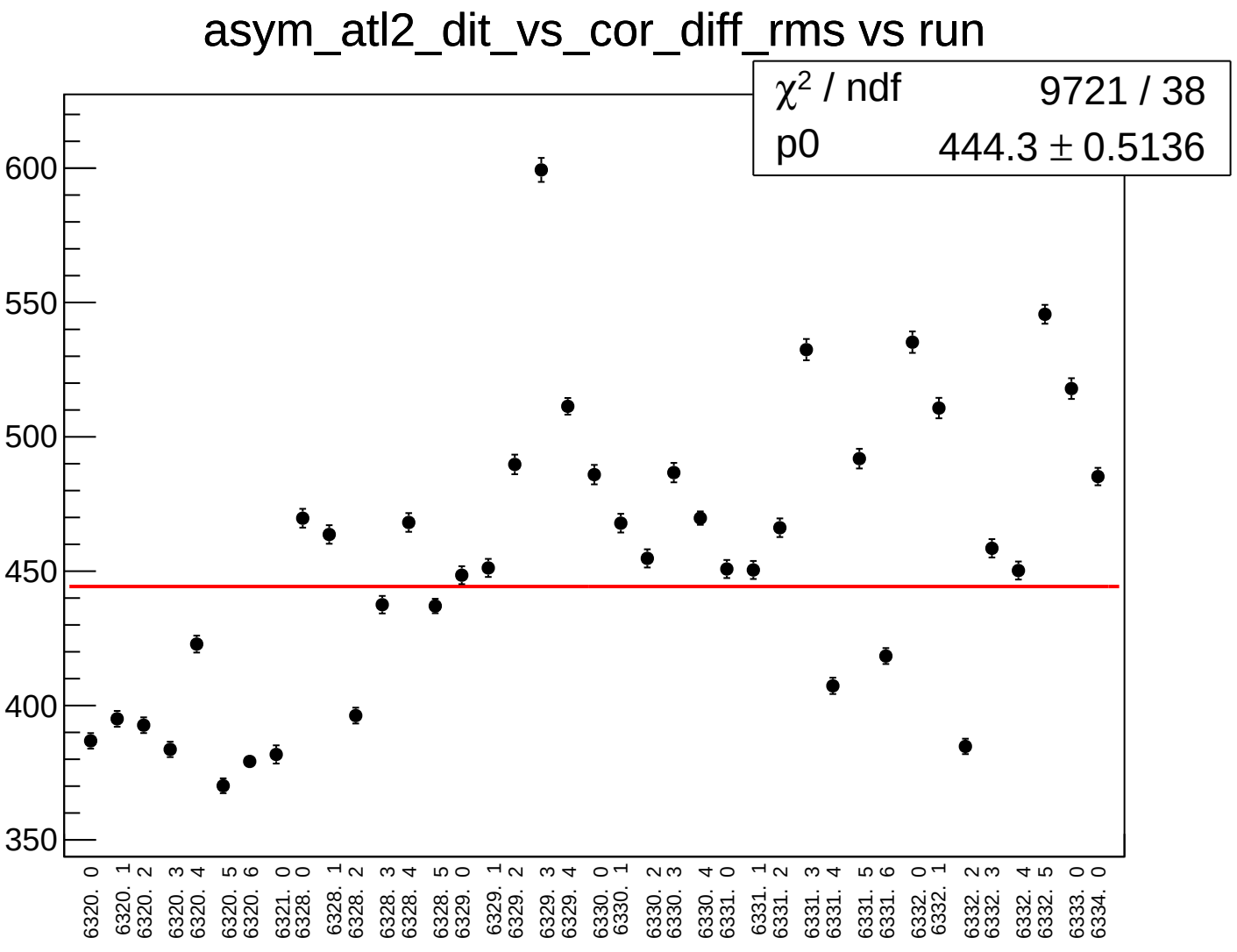

pull1D
Entries 39
Mean 0.02563
Std Dev 0.8711
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

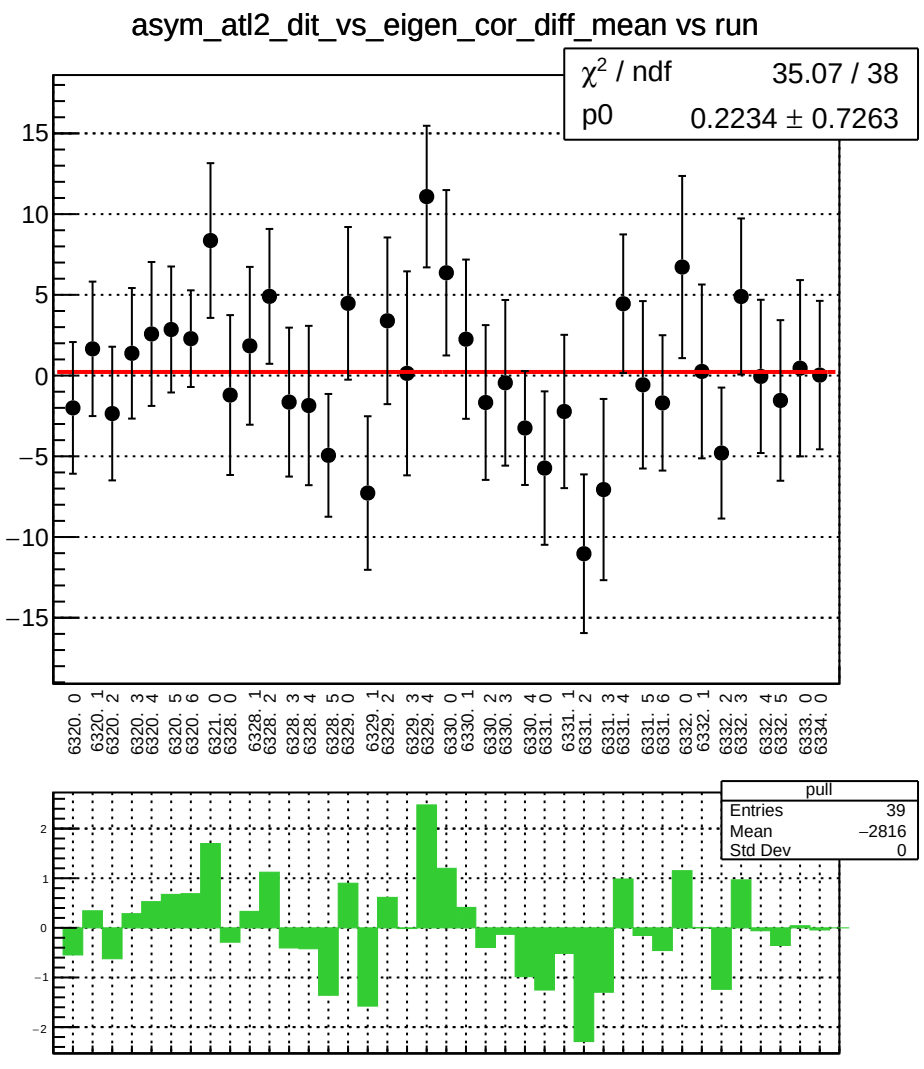

asym_atl2_rms vs run
χ² / ndf 1.922e+04 / 38
p0 9832 ± 11.44
13000
12000
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

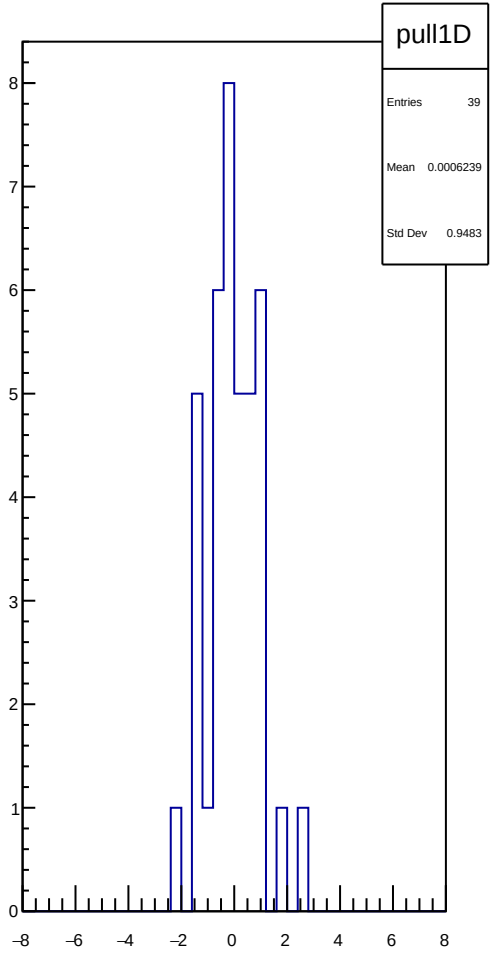

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 48.86 / 38
p0 6.157e−14 ± 6.678e−13
0.03
0.02
0.01
0
−0.01
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.81
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.2536
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

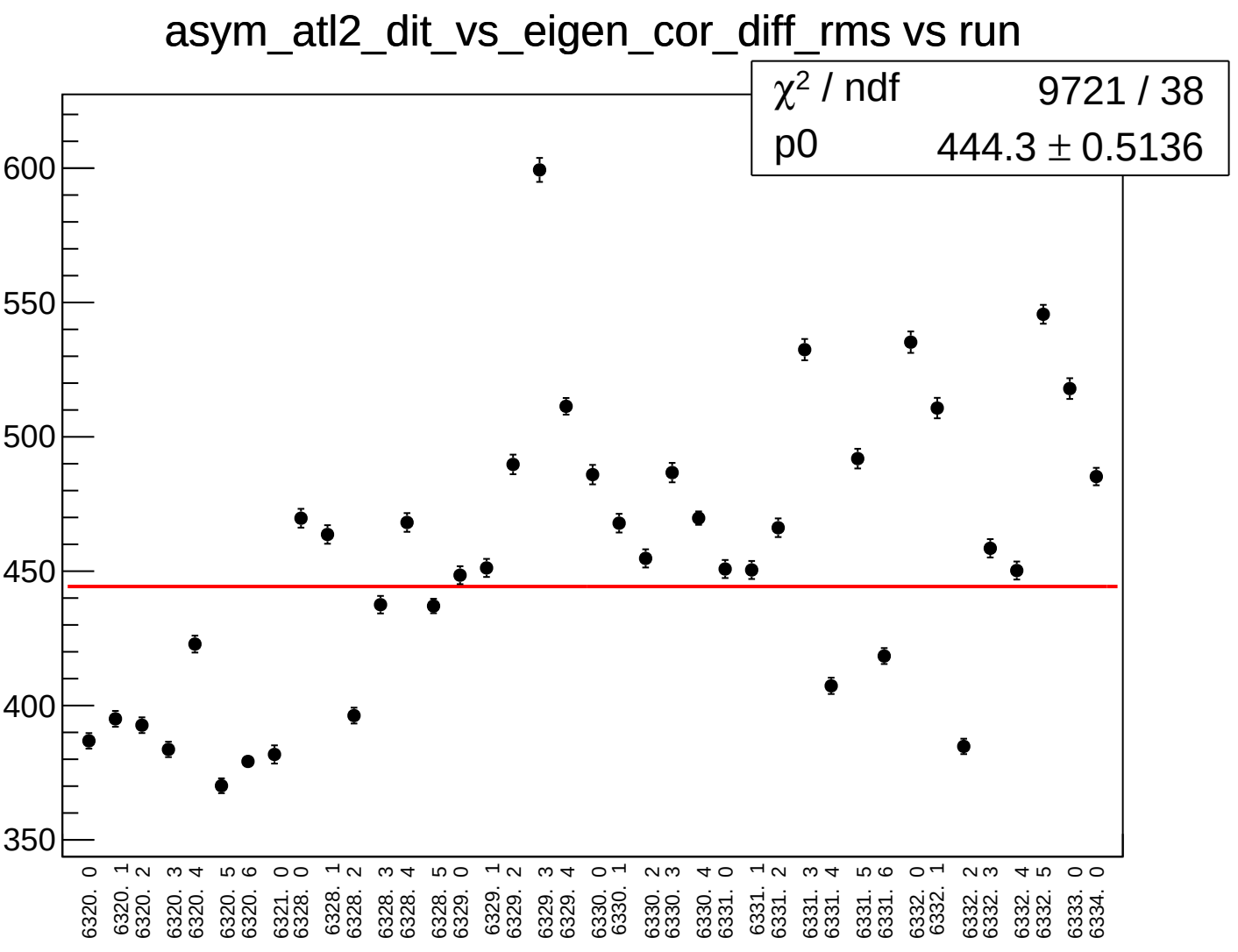

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.19e+05 / 38
p0 2.309e−10 ± 4.722e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

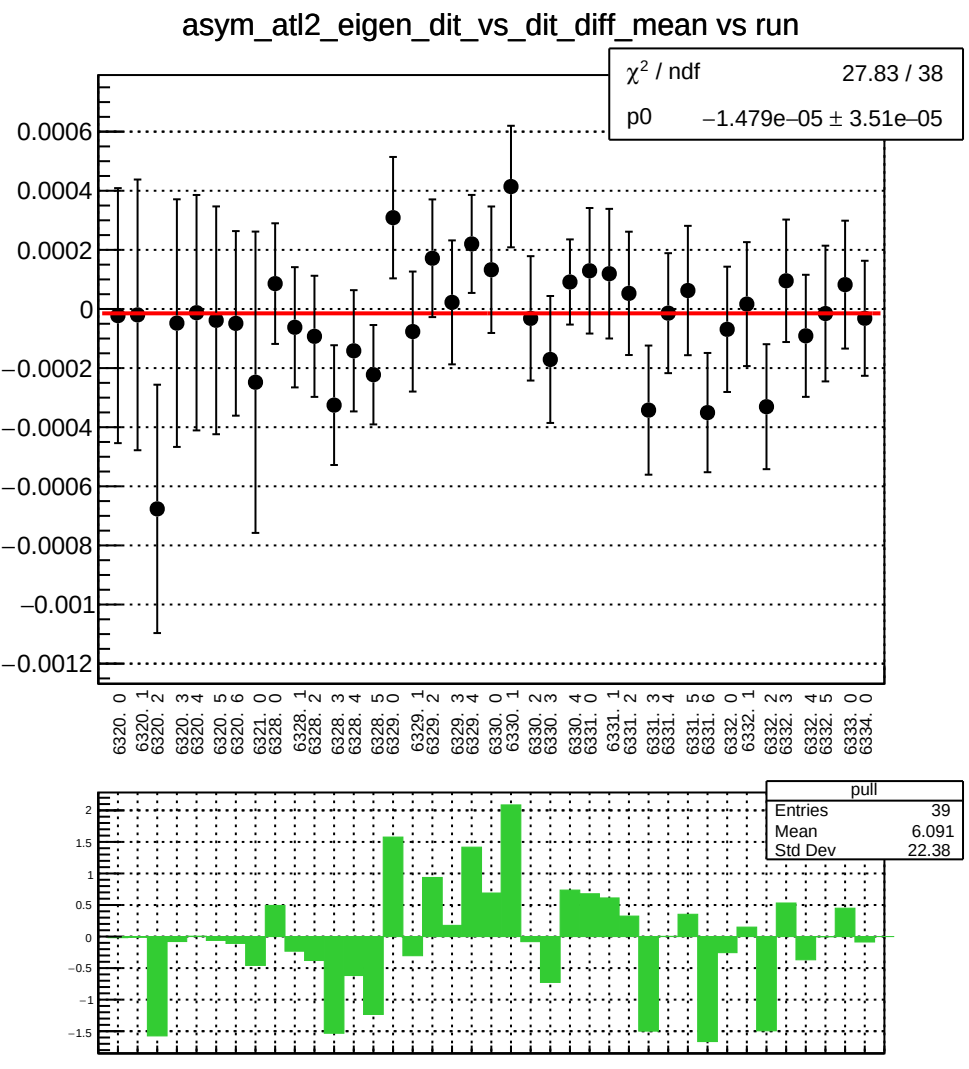

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 35.07 / 38
p0 0.2234 ± 0.7263
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2816
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0006239
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

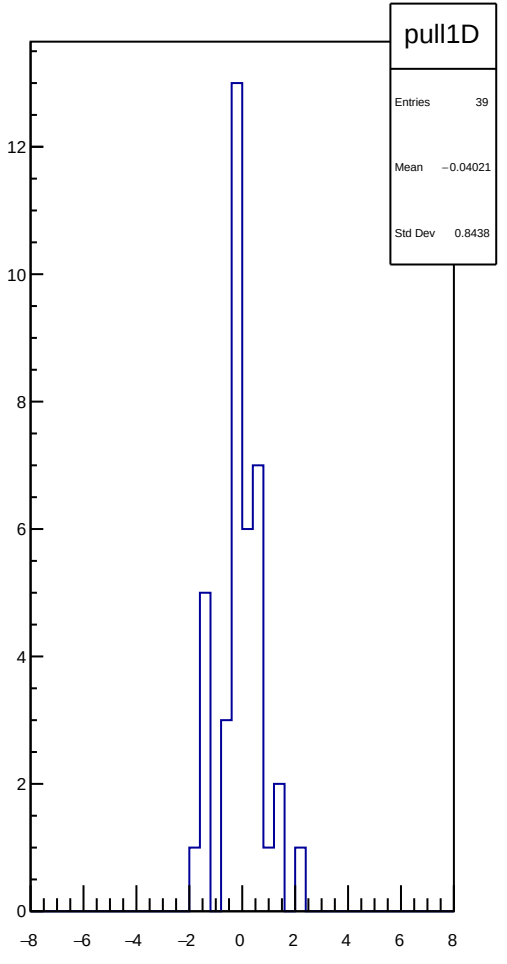

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 9721 / 38
p0 444.3 ± 0.5136
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

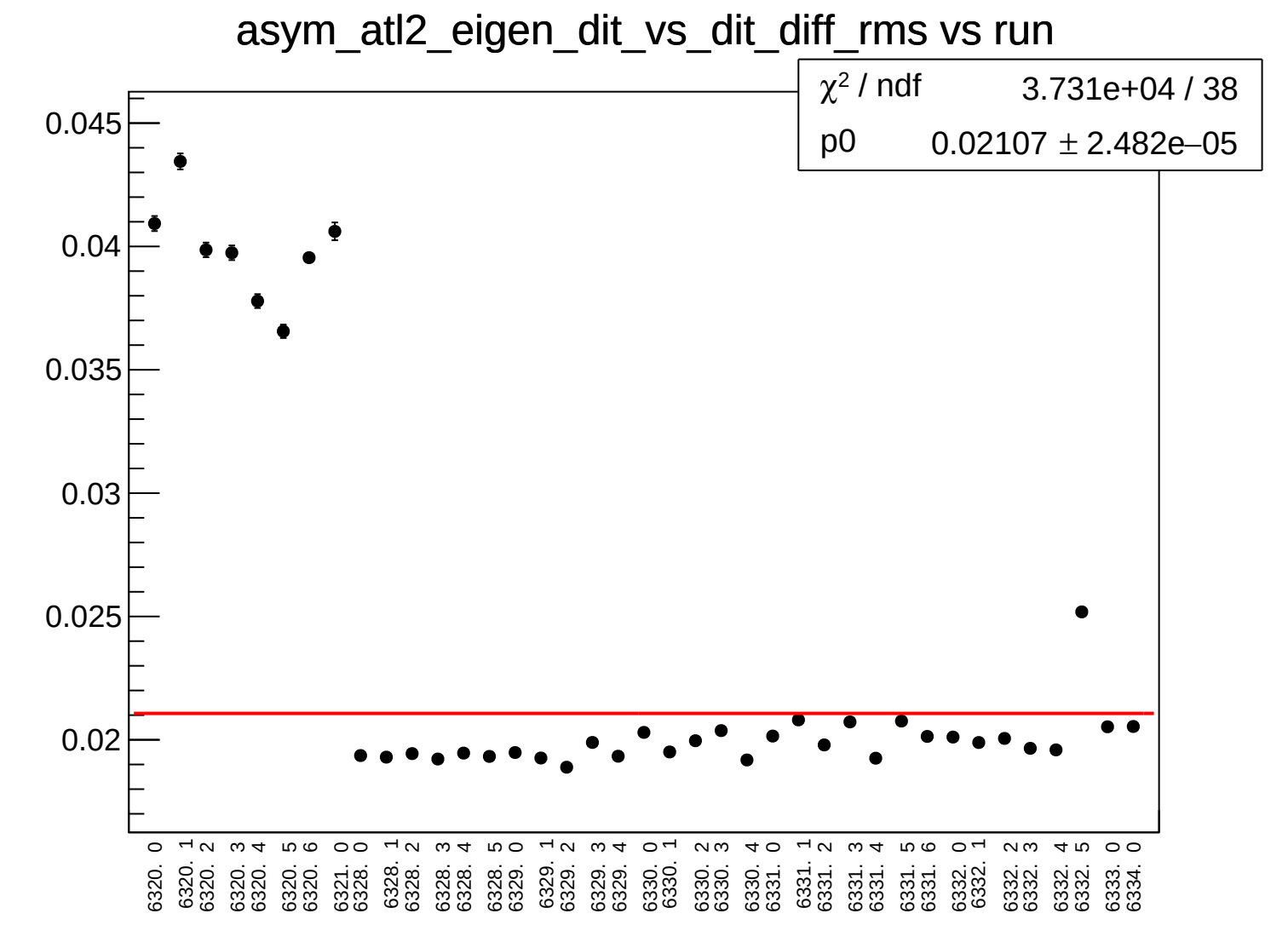

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.07 / 38
p0 0.2234 ± 0.7263
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2816
Std Dev 0
2
1
0
−1
−2

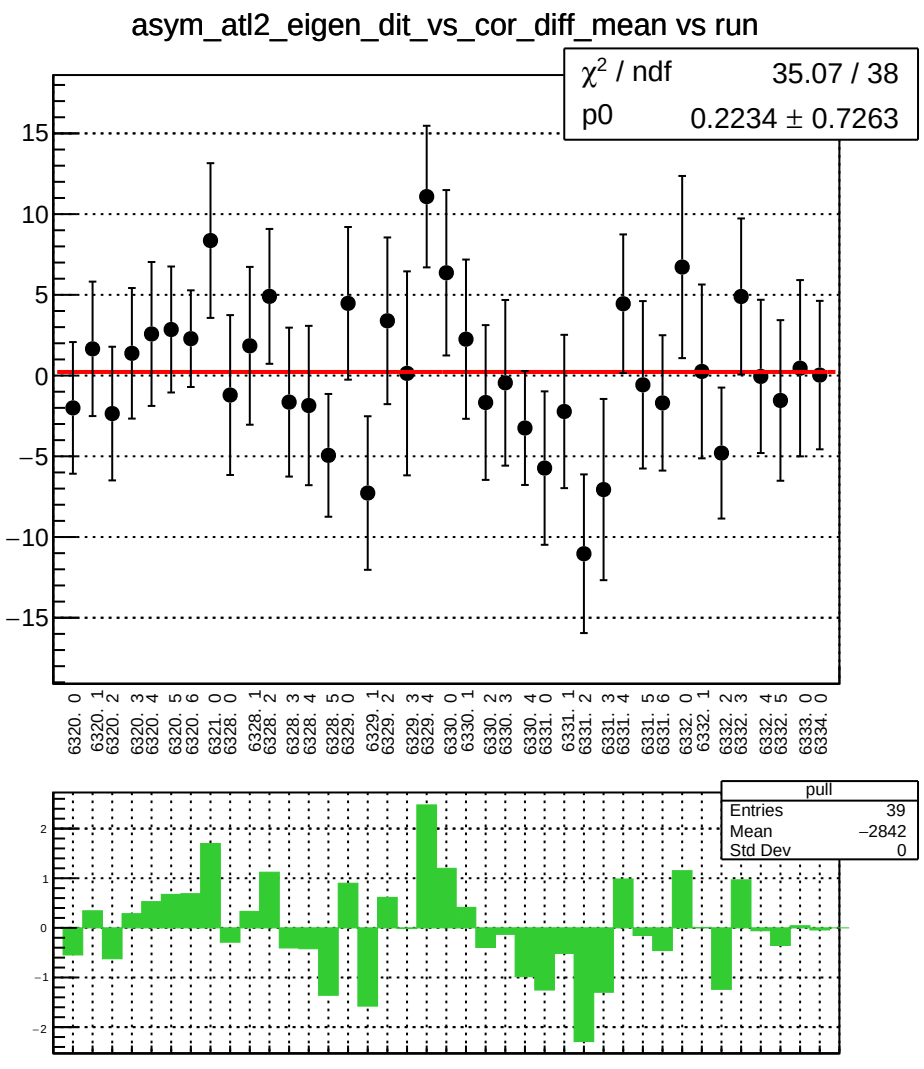

pull1D
Entries 39
Mean 0.0006239
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

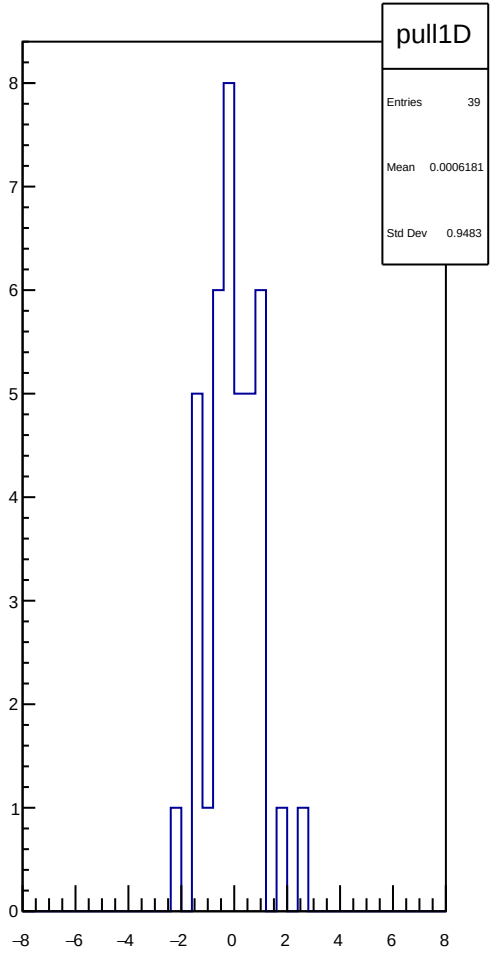

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9721 / 38
p0 444.3 ± 0.5136
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

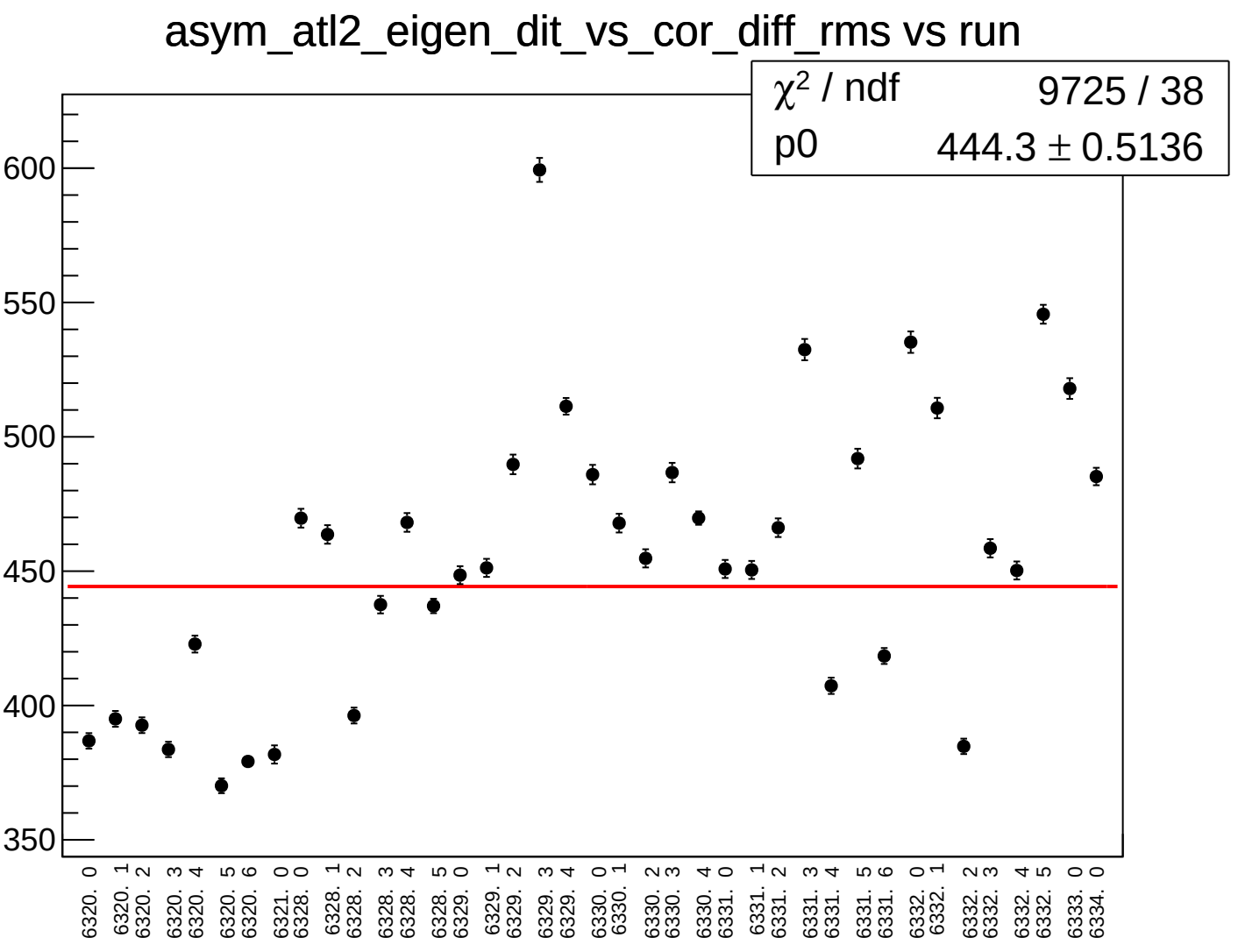

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 27.83 / 38
p0 −1.479e−05 ± 3.51e−05
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.091
Std Dev 22.38
2
1.5
1
0.5
0
−0.5
−1
−1.5

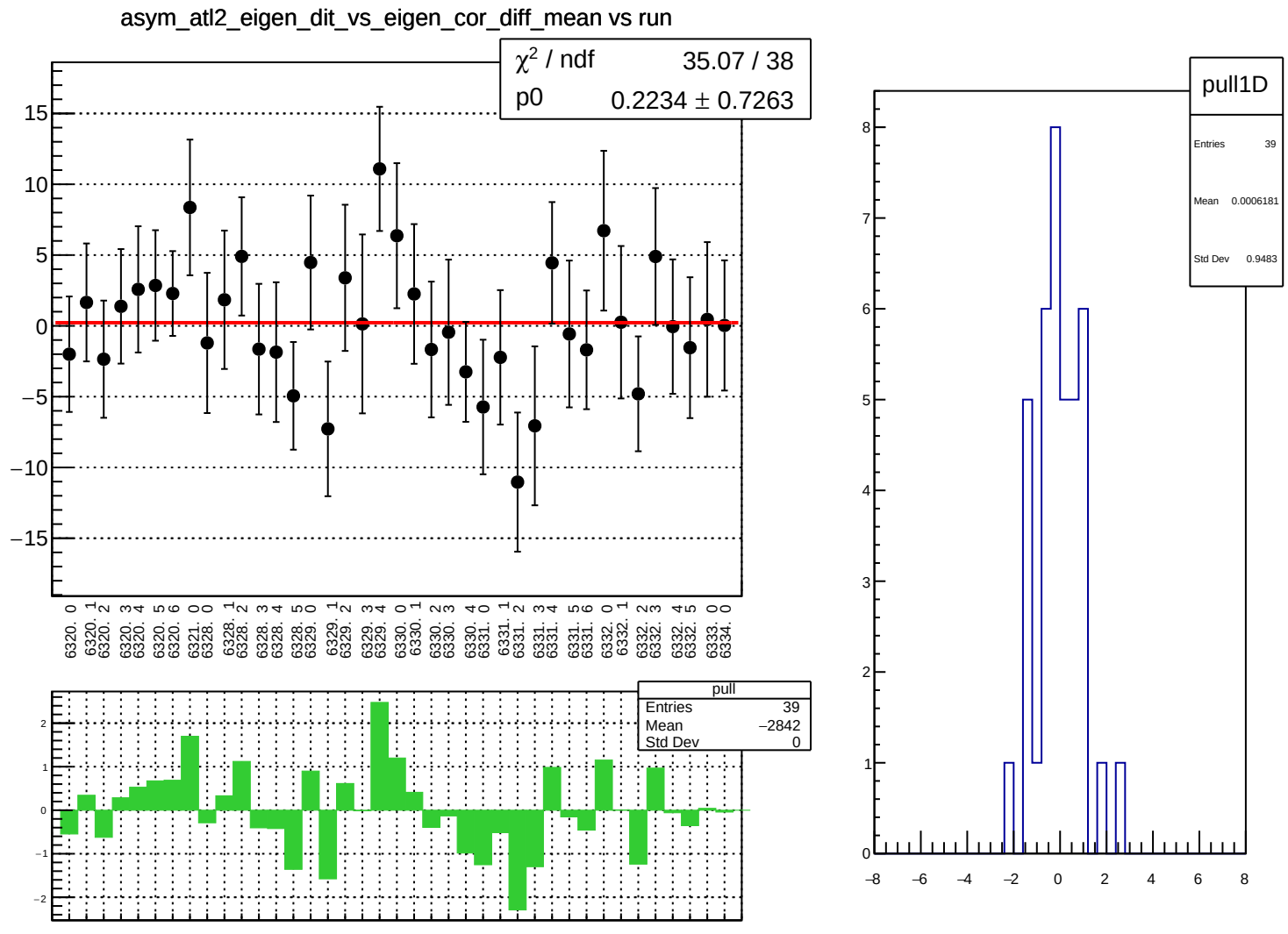

pull1D
Entries 39
Mean −0.04021
Std Dev 0.8438
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

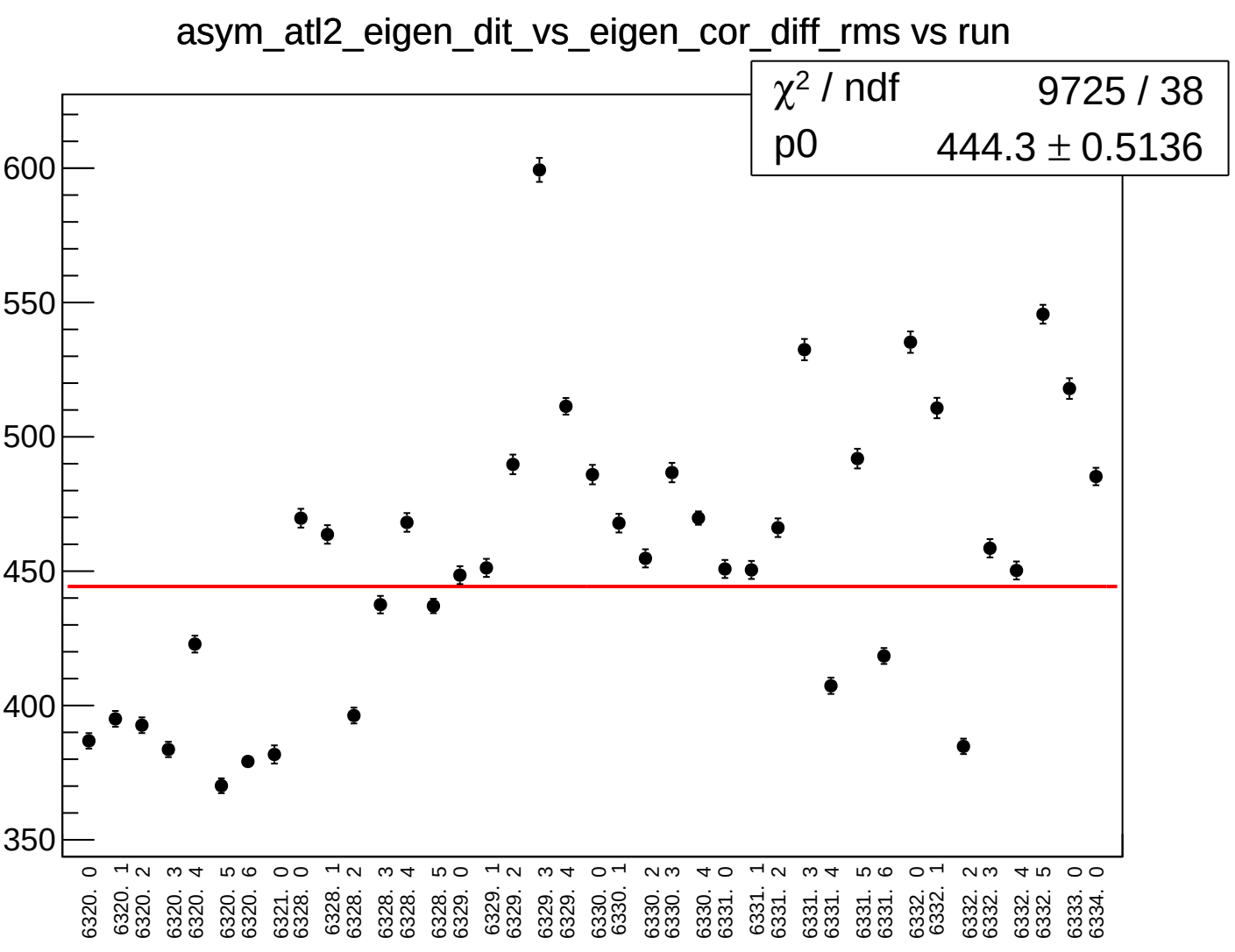

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.731e+04 / 38
p0 0.02107 ± 2.482e–05
0.045
0.04
0.035
0.03
0.025
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

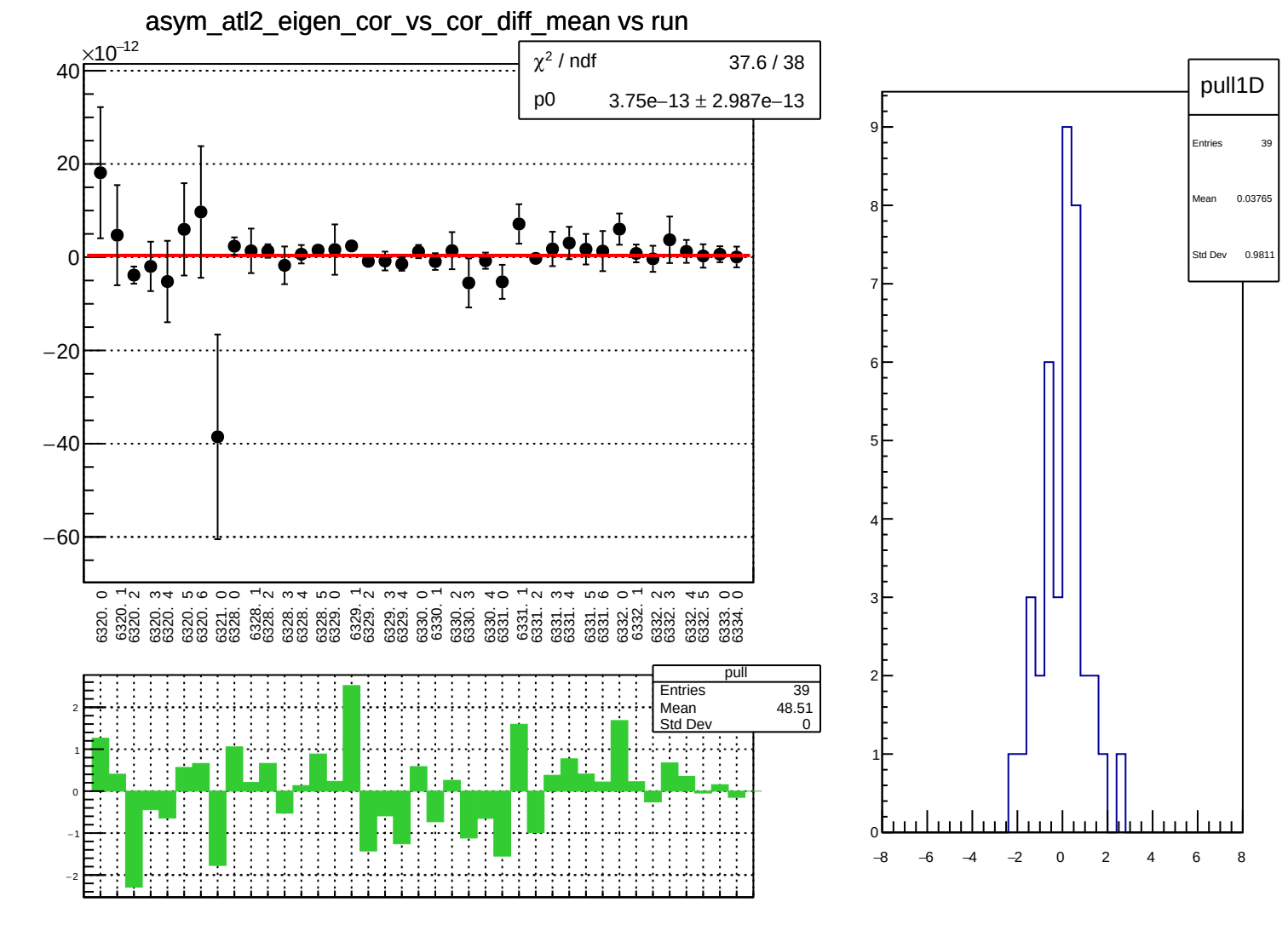

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.07 / 38
p0 0.2234 ± 0.7263
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2842
Std Dev 0
2
1
0
−1
−2

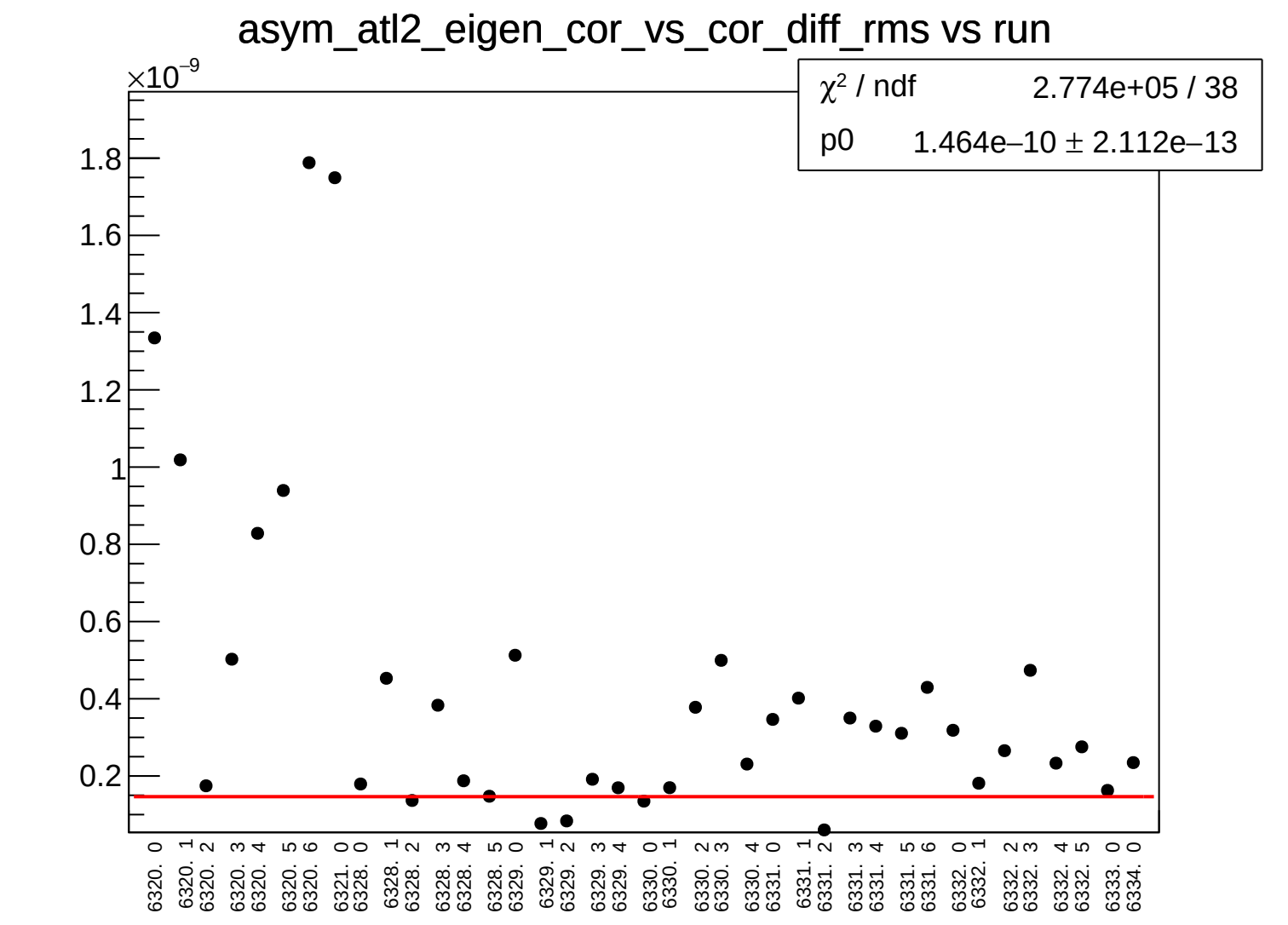

pull1D
Entries 39
Mean 0.0006181
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

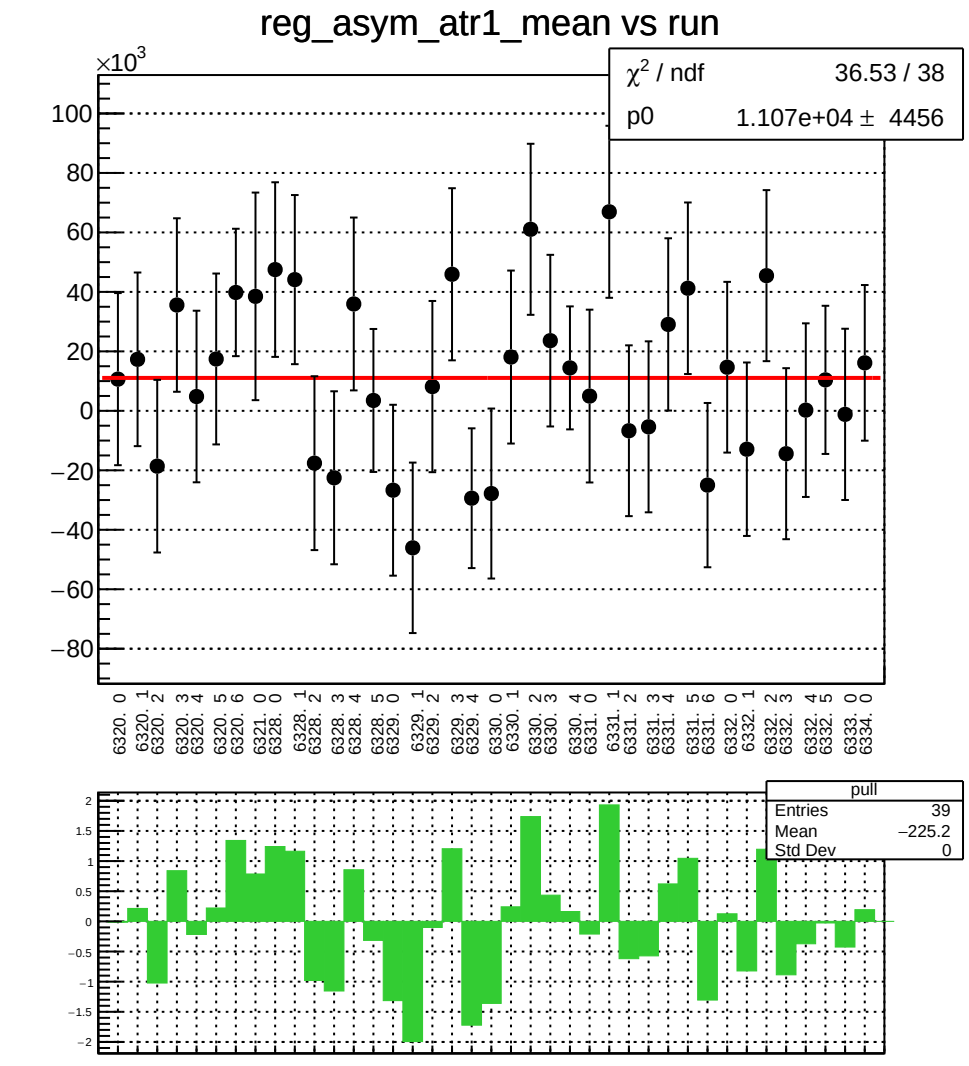

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9725 / 38
p0 444.3 ± 0.5136
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

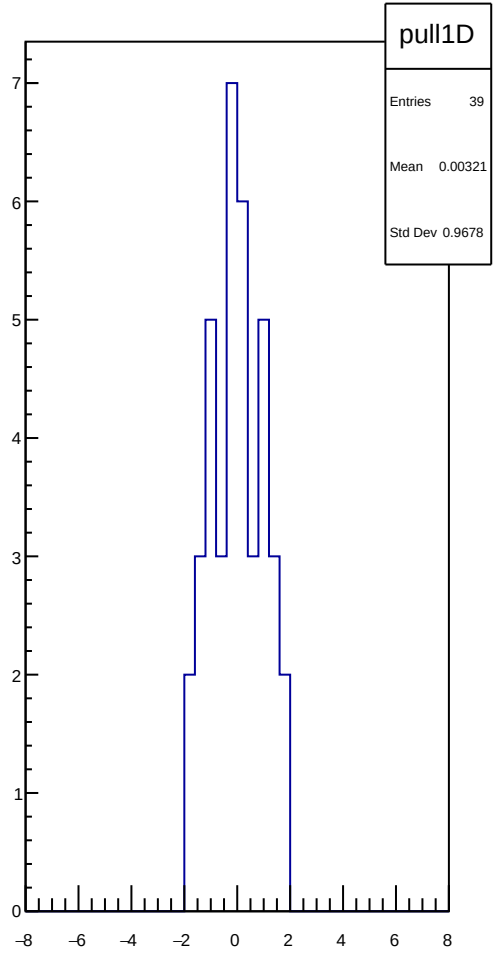

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.07 / 38
p0 0.2234 ± 0.7263
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2842
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0006181
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

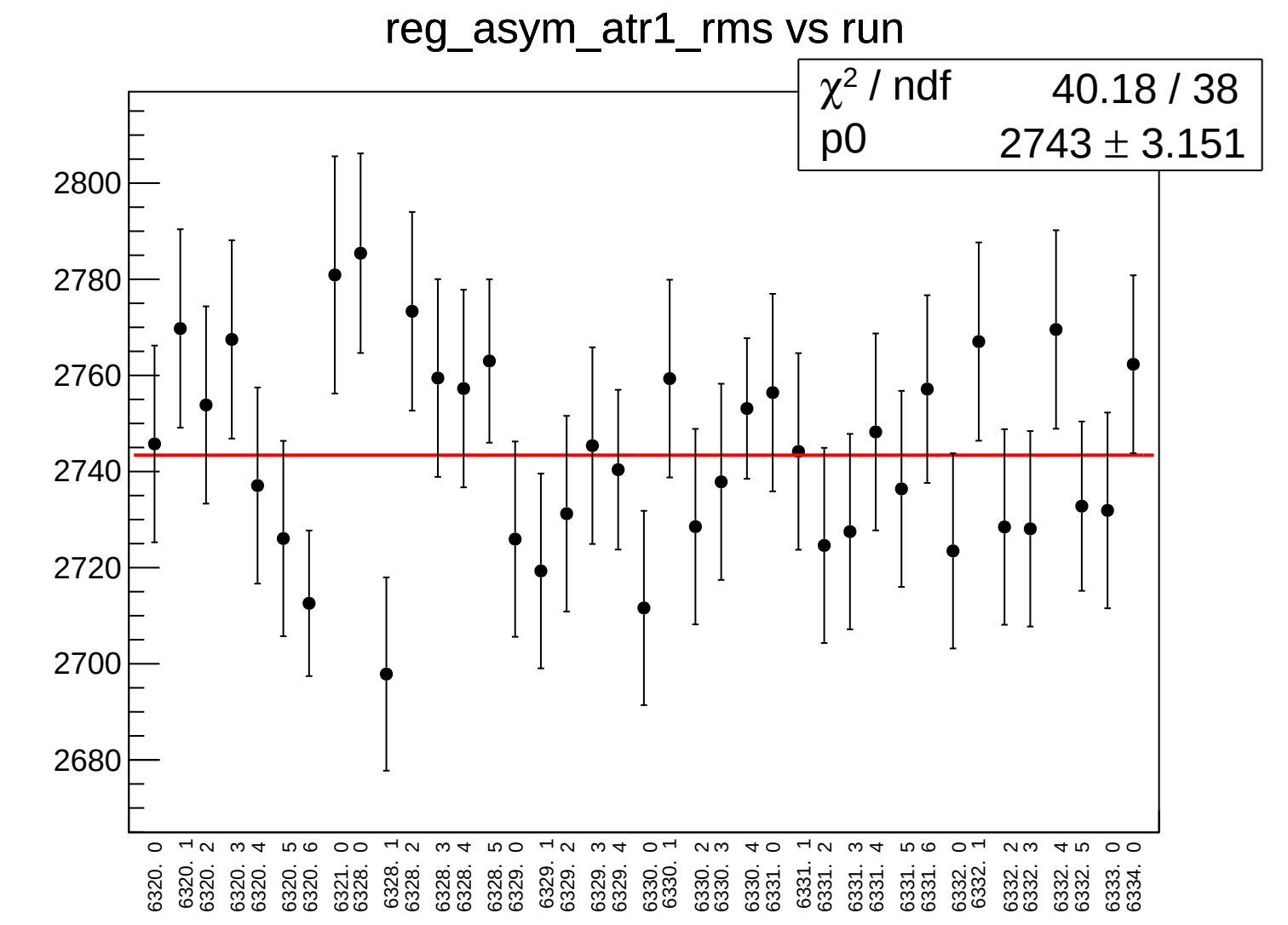

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9725 / 38
p0 444.3 ± 0.5136
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

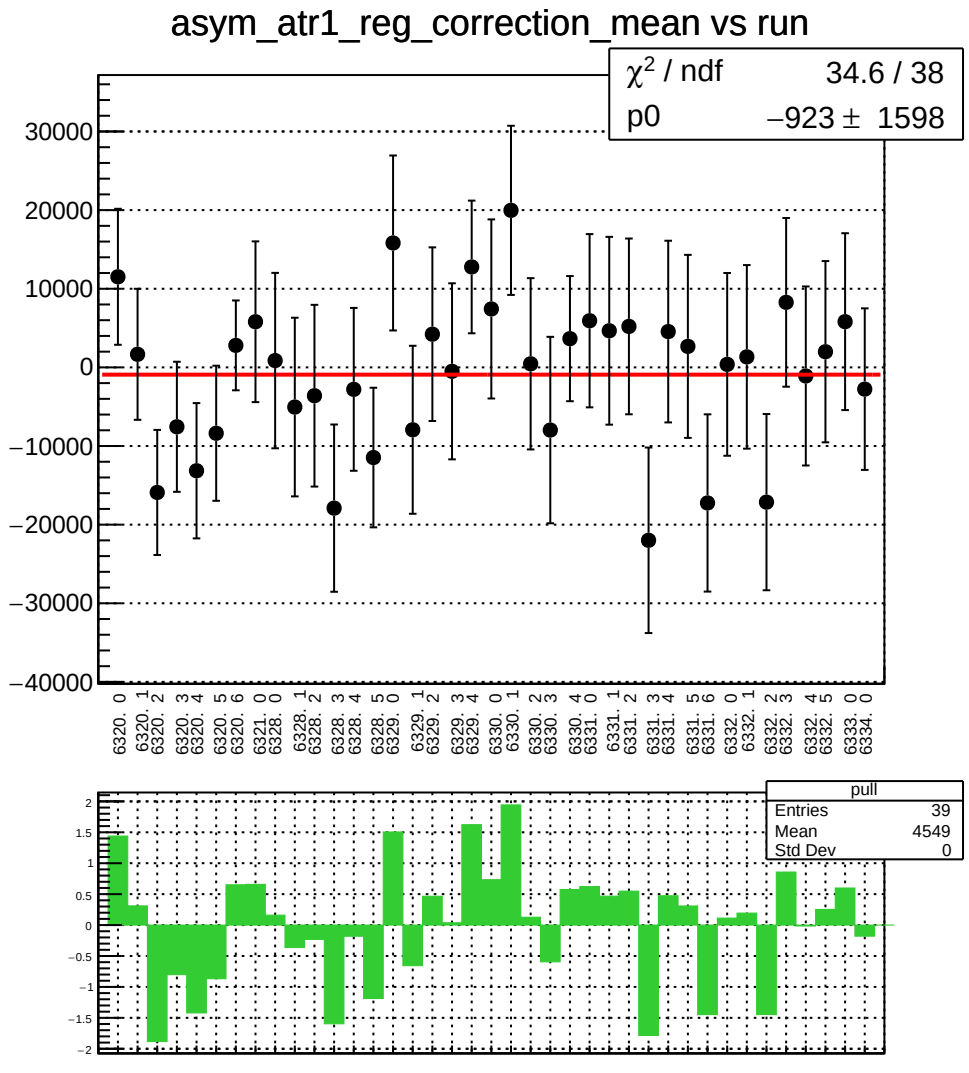

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.6 / 38
p0 3.75e−13 ± 2.987e−13
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 48.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03765
Std Dev 0.9811
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

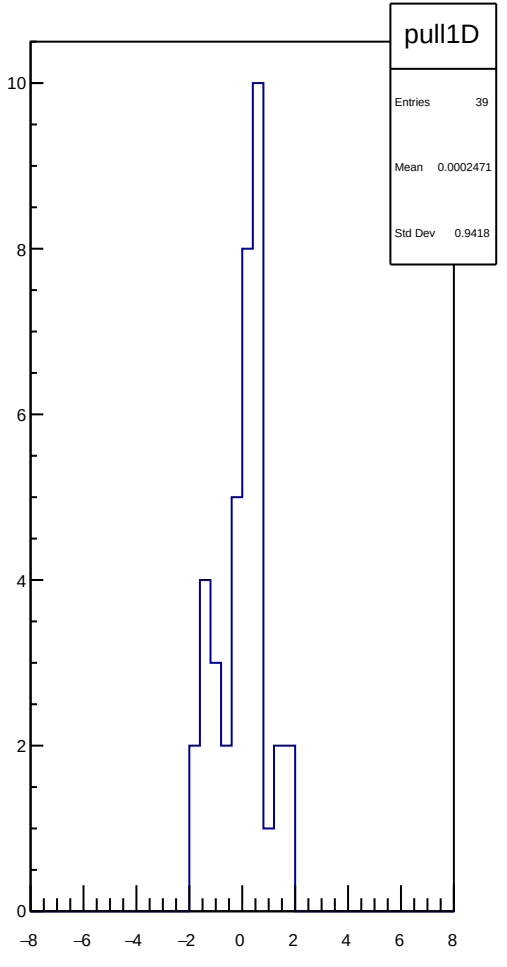

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.774e+05 / 38
p0 1.464e−10 ± 2.112e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

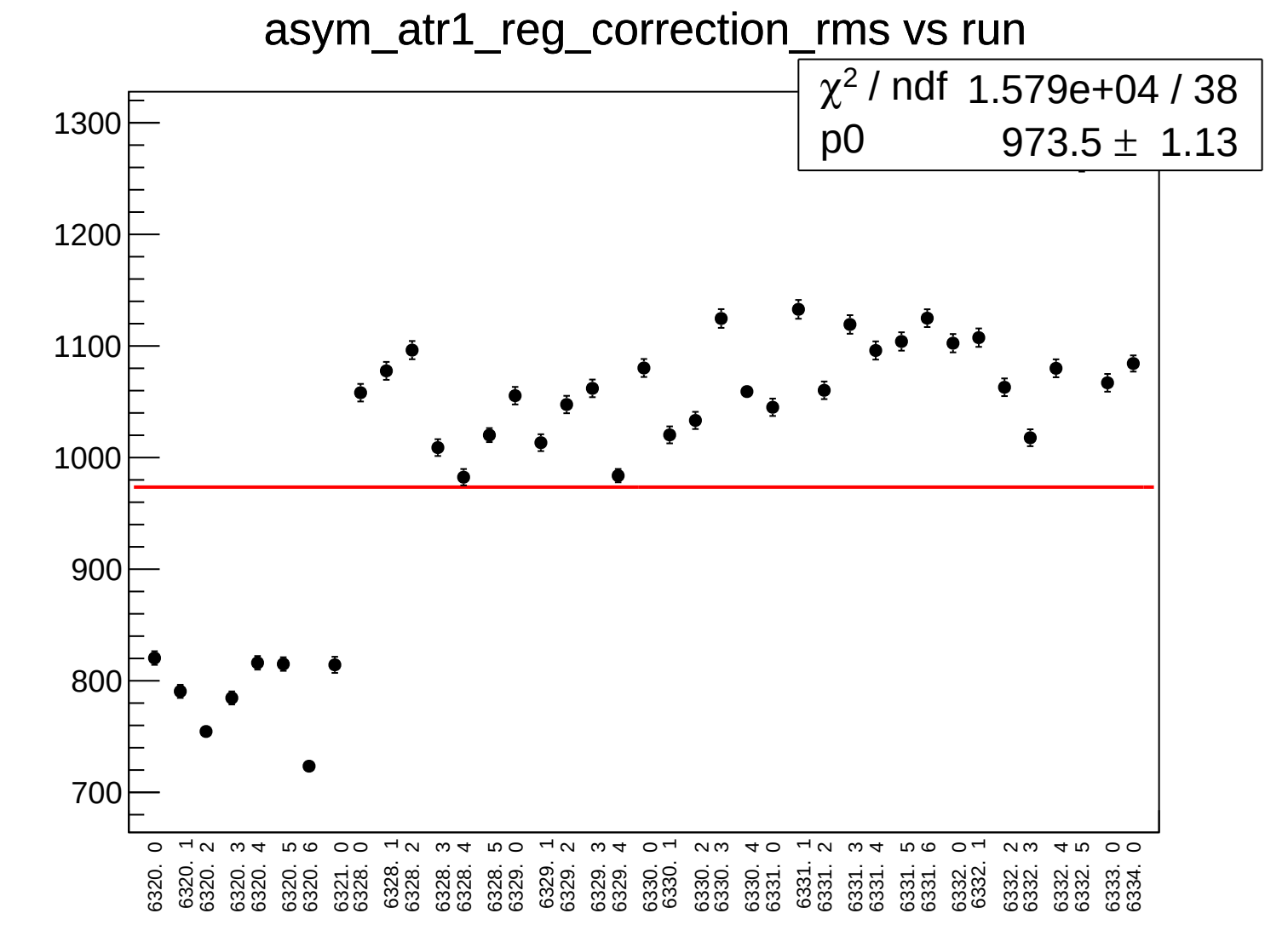

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 36.53 / 38
p0 1.107e+04 ± 4456
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −225.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

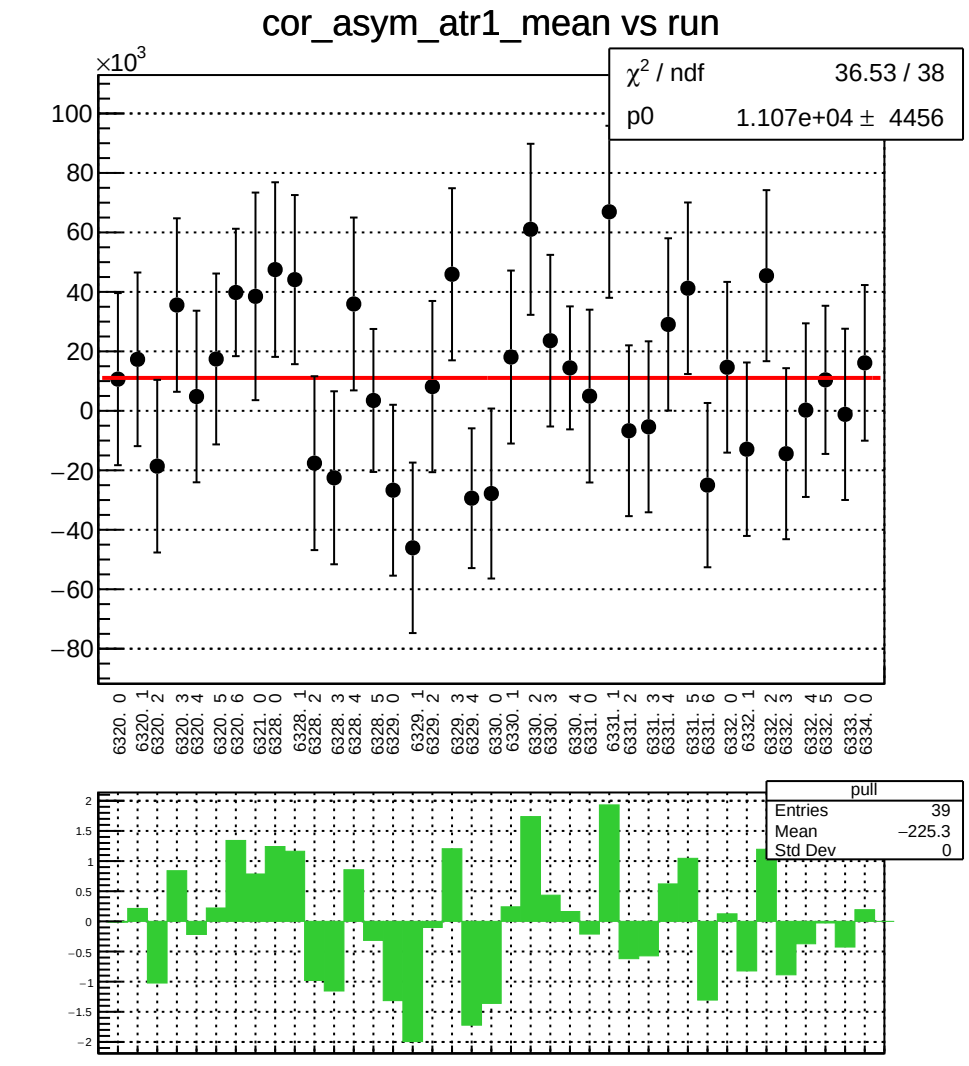

pull1D
Entries 39
Mean 0.00321
Std Dev 0.9678
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

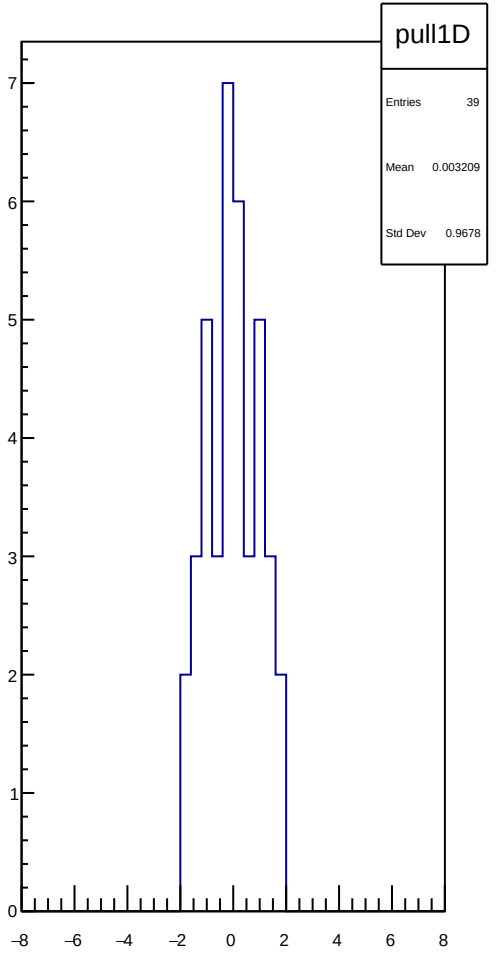

reg_asym_atr1_rms vs run
χ² / ndf 40.18 / 38
p0 2743 ± 3.151
2800
2780
2760
2740
2720
2700
2680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

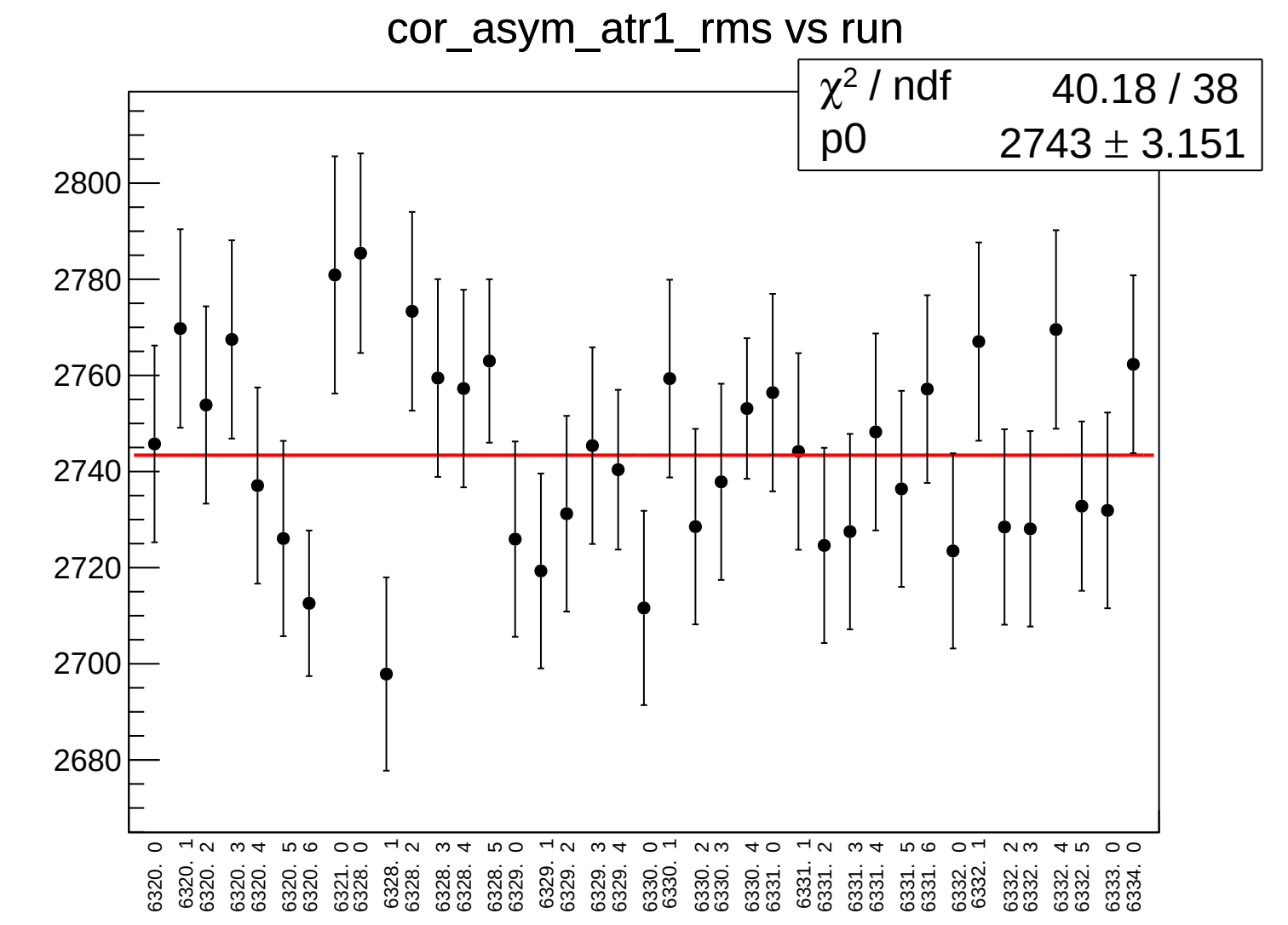

asym_atr1_reg_correction_mean vs run
χ² / ndf 34.6 / 38
p0 −923 ± 1598
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 4549
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

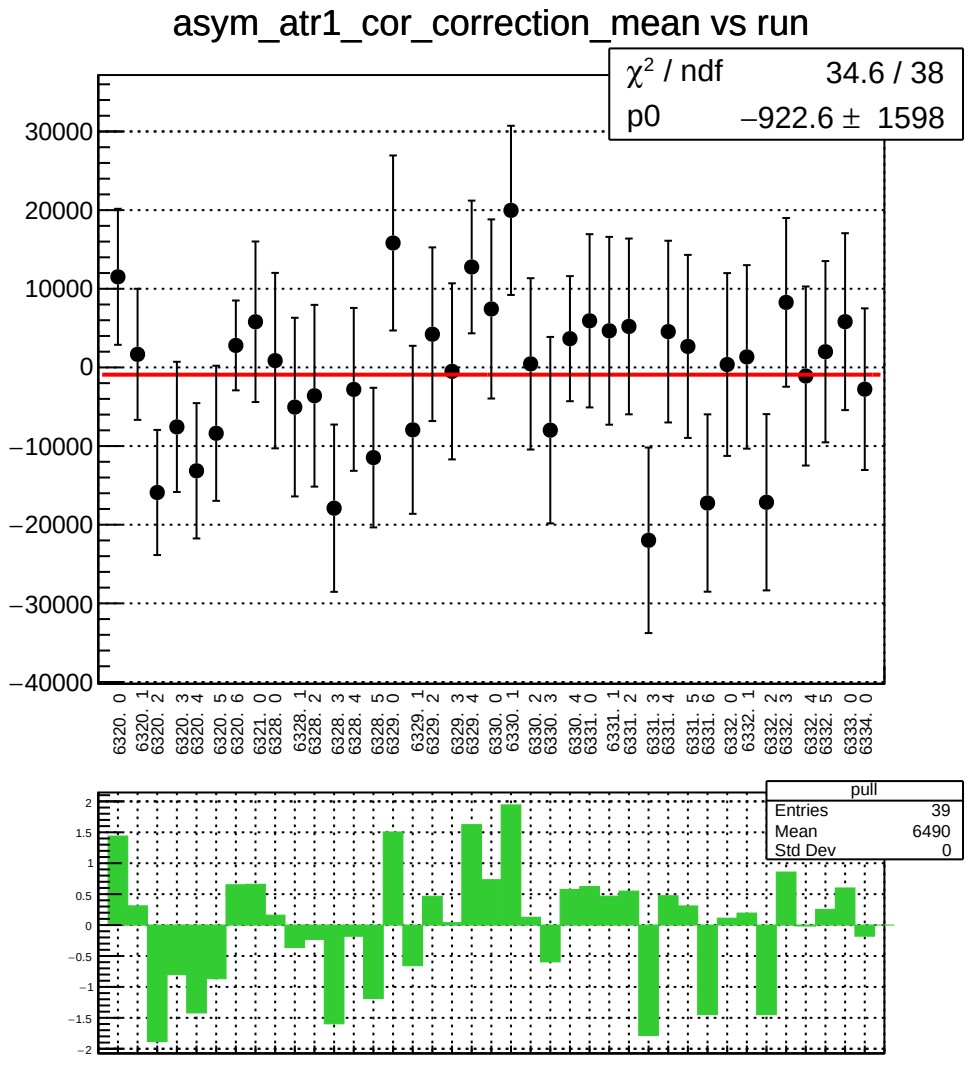

pull1D
Entries 39
Mean 0.0002471
Std Dev 0.9418
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

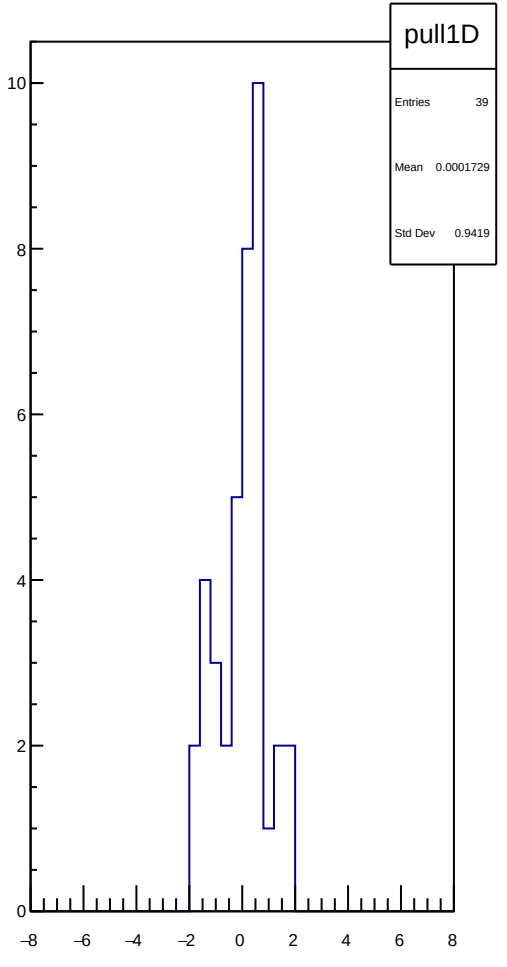

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.579e+04 / 38
p0 973.5 ± 1.13
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

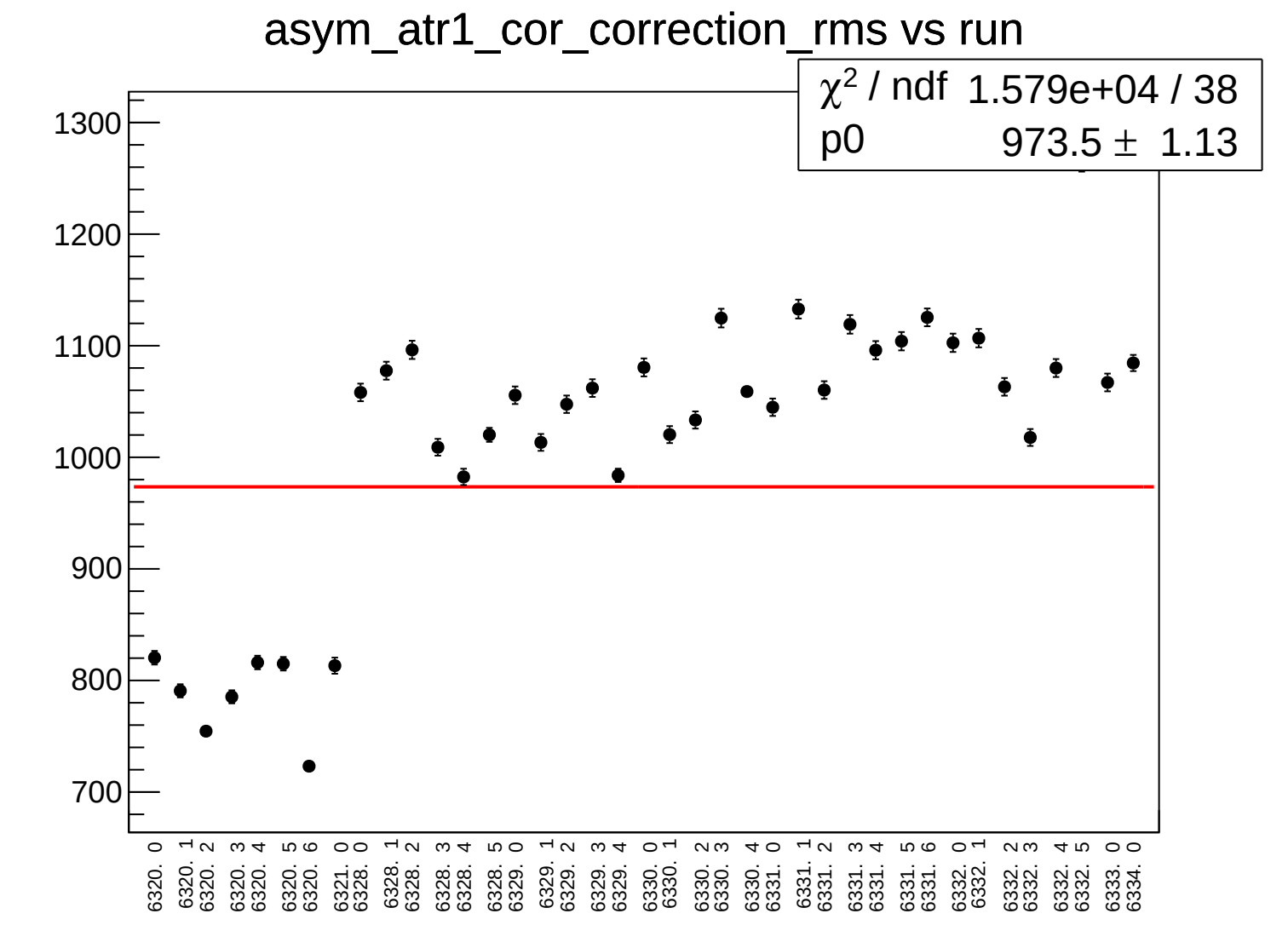

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 36.53 / 38
p0 1.107e+04 ± 4456
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −225.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

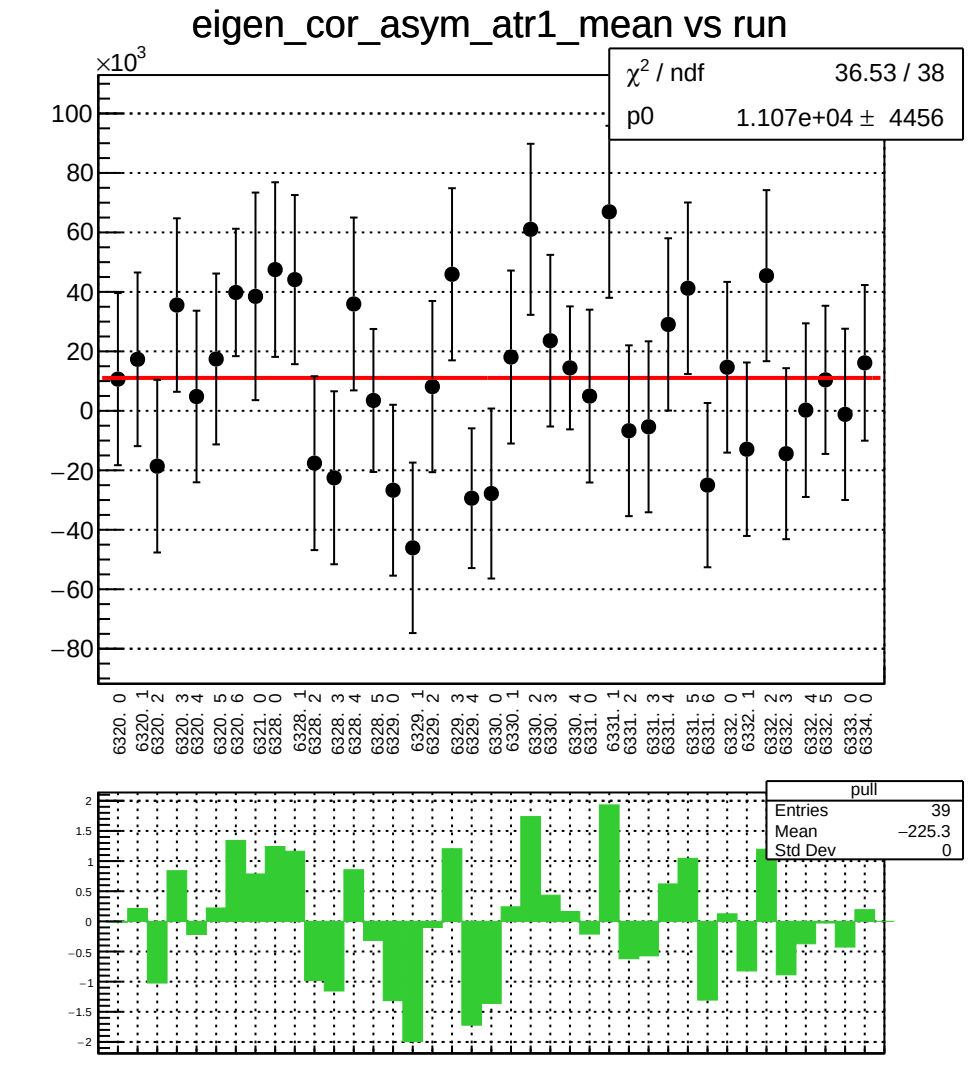

pull1D
Entries 39
Mean 0.003209
Std Dev 0.9678
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

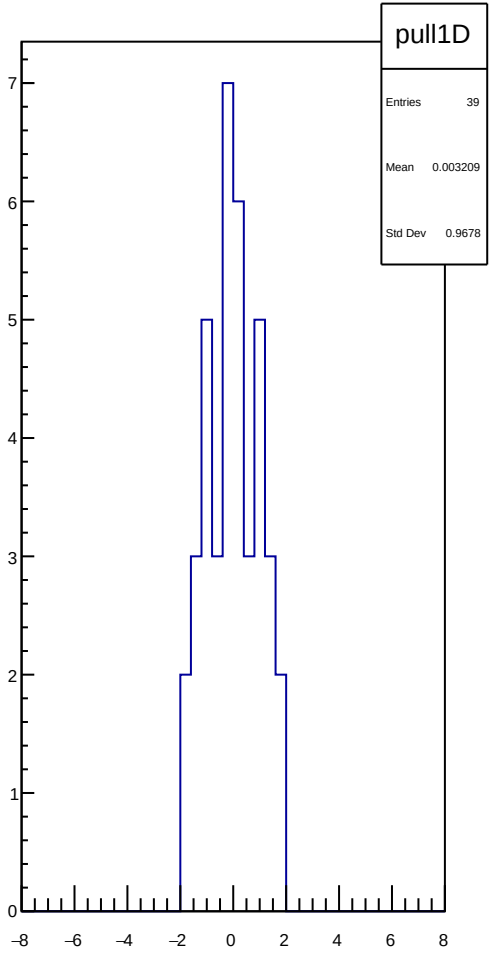

cor_asym_atr1_rms vs run
χ² / ndf 40.18 / 38
p0 2743 ± 3.151
2800
2780
2760
2740
2720
2700
2680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

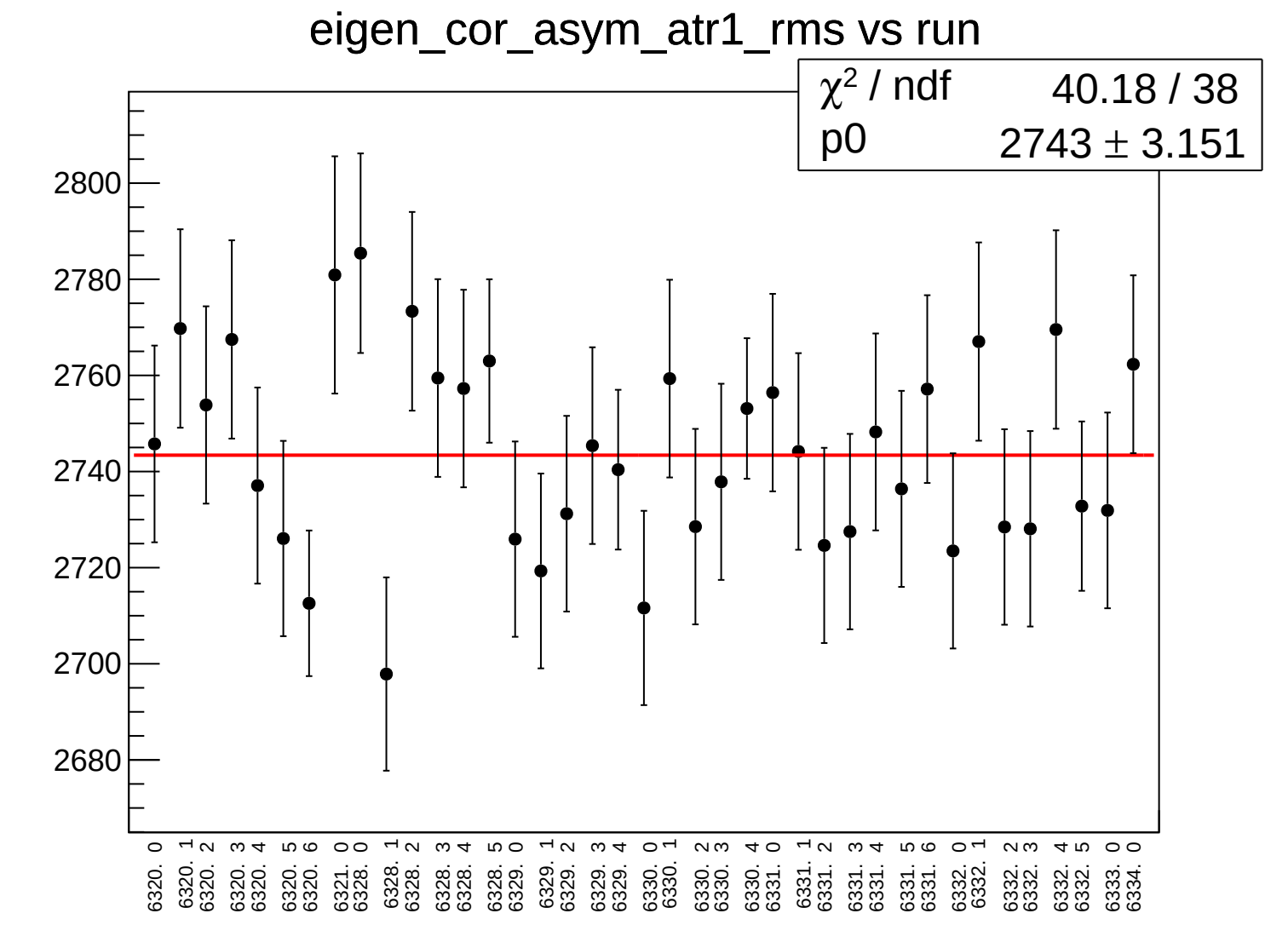

asym_atr1_cor_correction_mean vs run
χ² / ndf 34.6 / 38
p0 −922.6 ± 1598
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6490
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

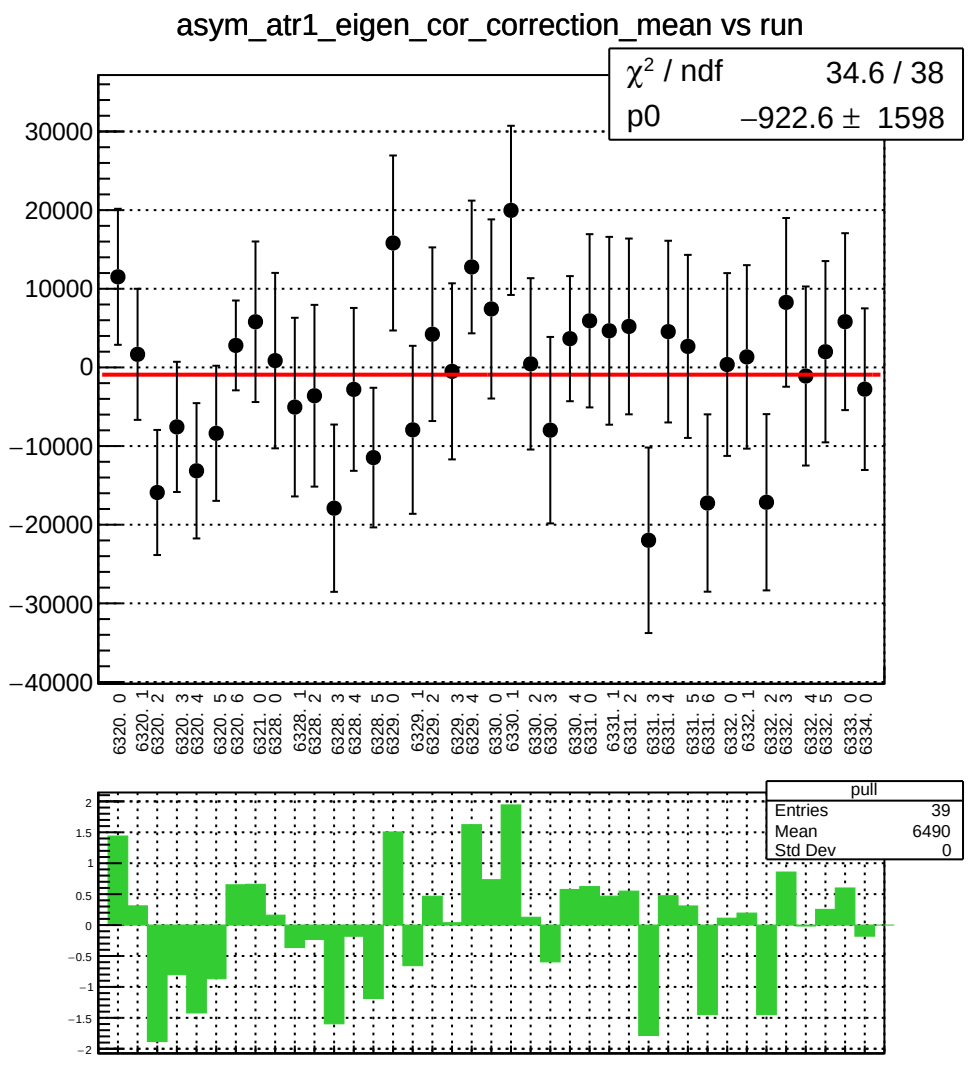

pull1D
Entries 39
Mean 0.0001729
Std Dev 0.9419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

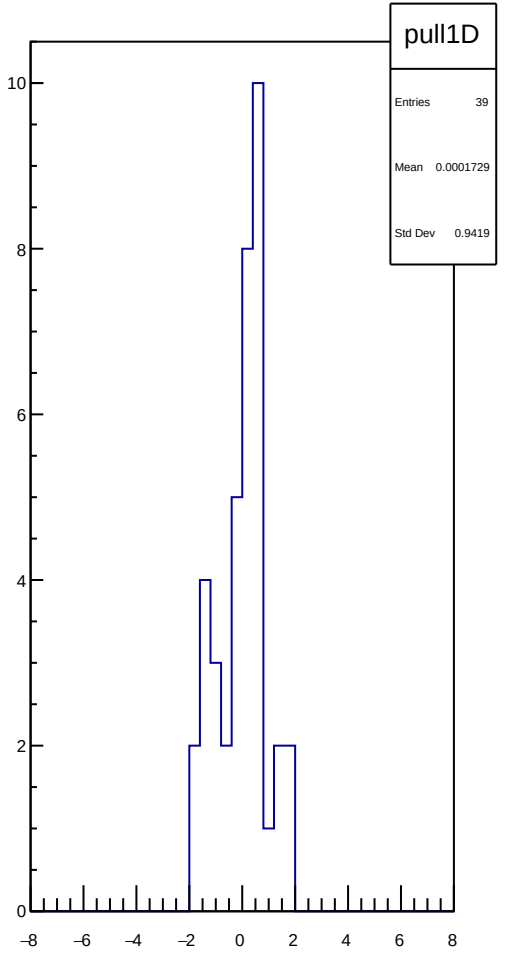

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.579e+04 / 38
p0 973.5 ± 1.13
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

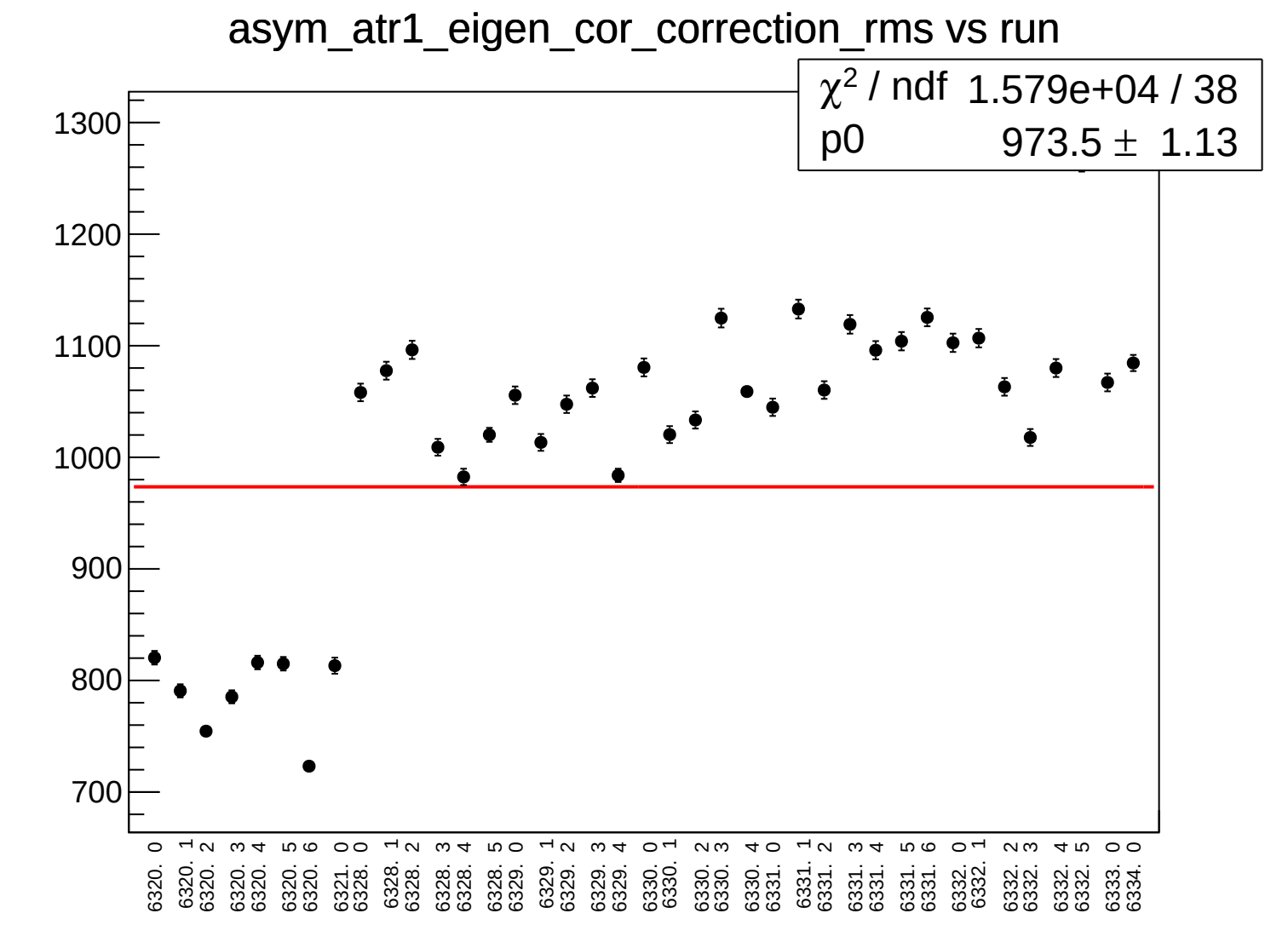

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 36.53 / 38
p0 1.107e+04 ± 4456
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −225.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

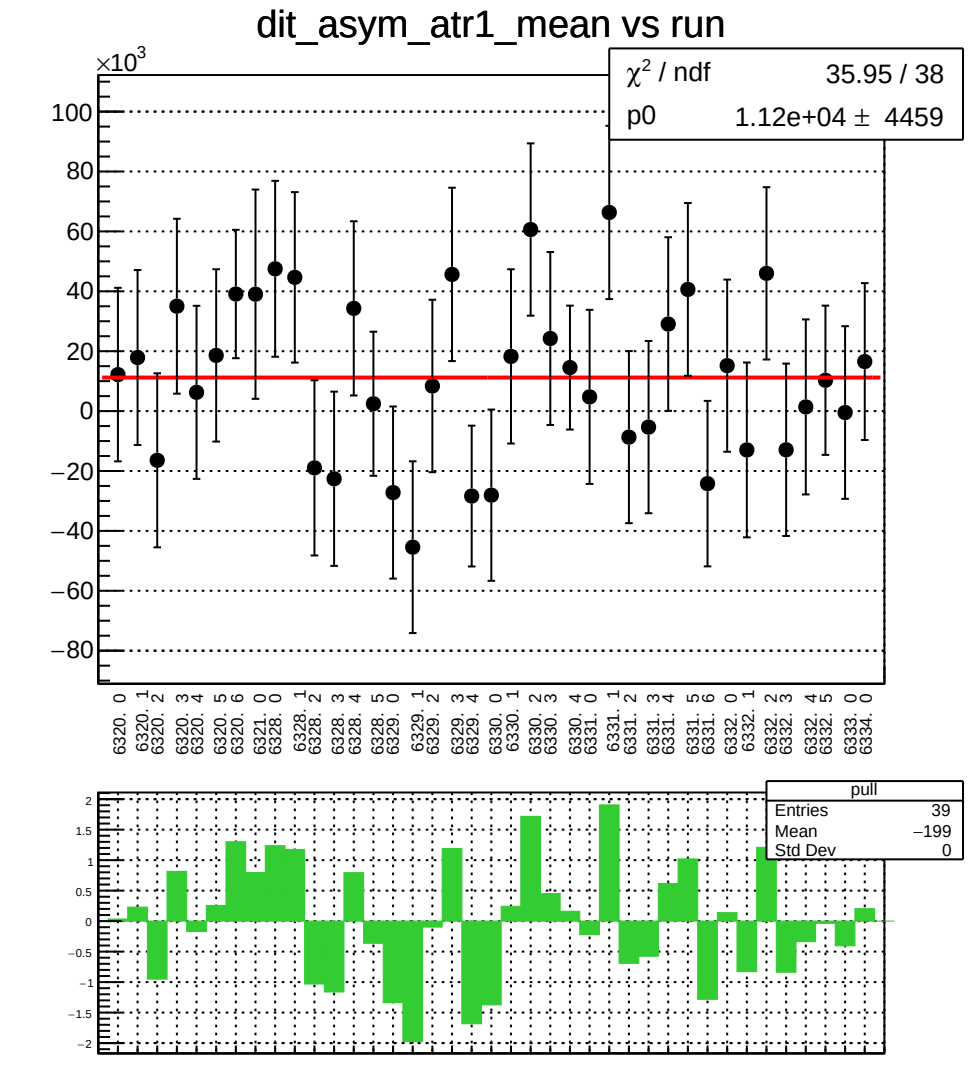

pull1D
Entries 39
Mean 0.003209
Std Dev 0.9678
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

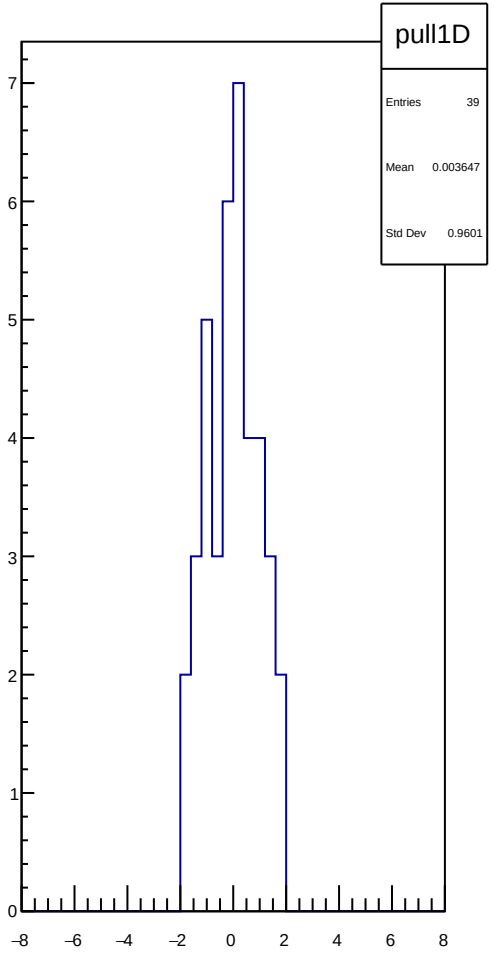

eigen_cor_asym_atr1_rms vs run
χ² / ndf 40.18 / 38
p0 2743 ± 3.151
2800
2780
2760
2740
2720
2700
2680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

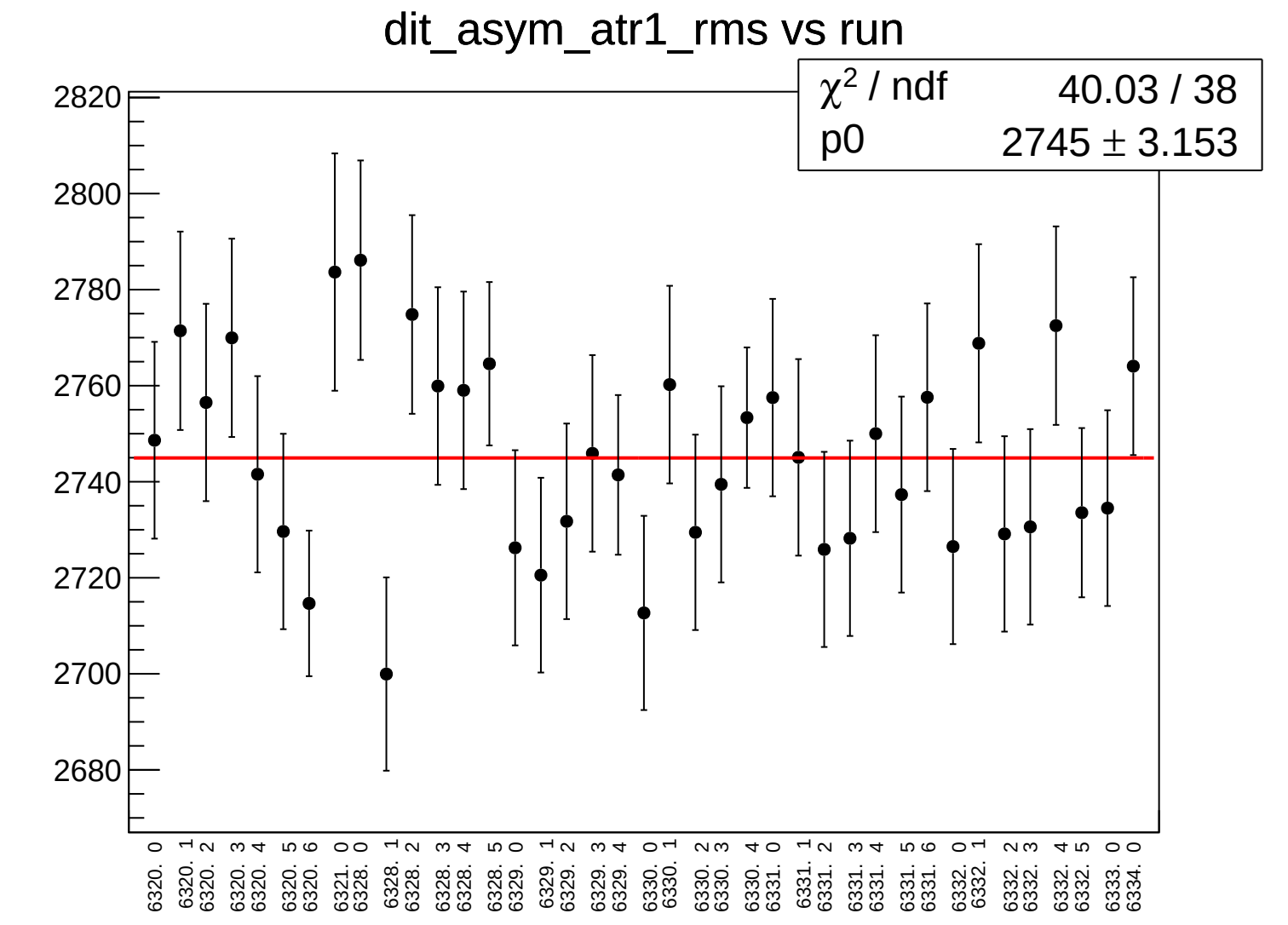

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 34.6 / 38
p0 −922.6 ± 1598
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6490
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

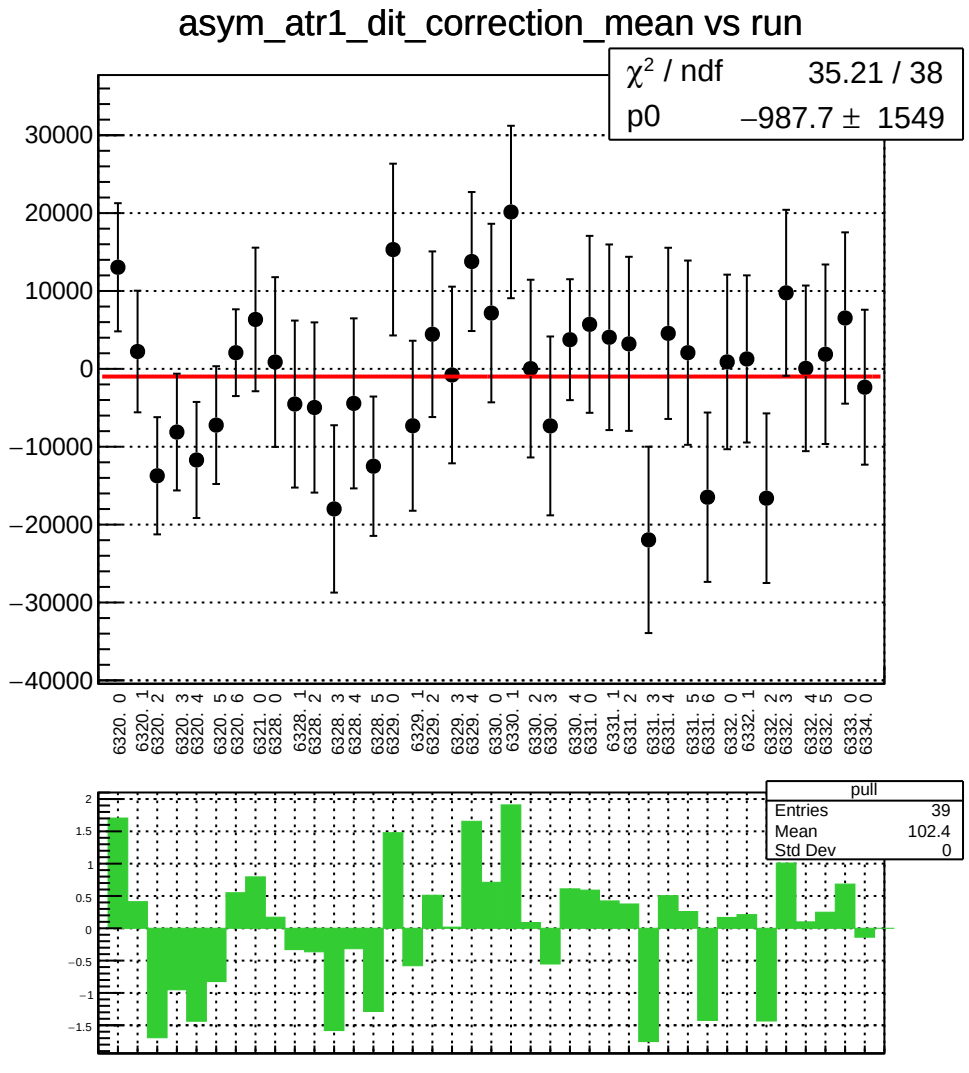

pull1D
Entries 39
Mean 0.0001729
Std Dev 0.9419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

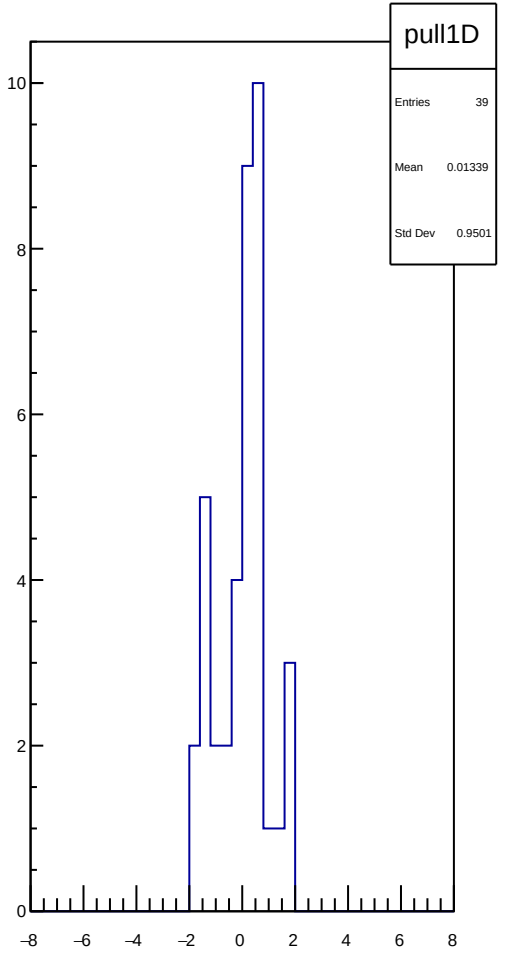

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.579e+04 / 38
p0 973.5 ± 1.13
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

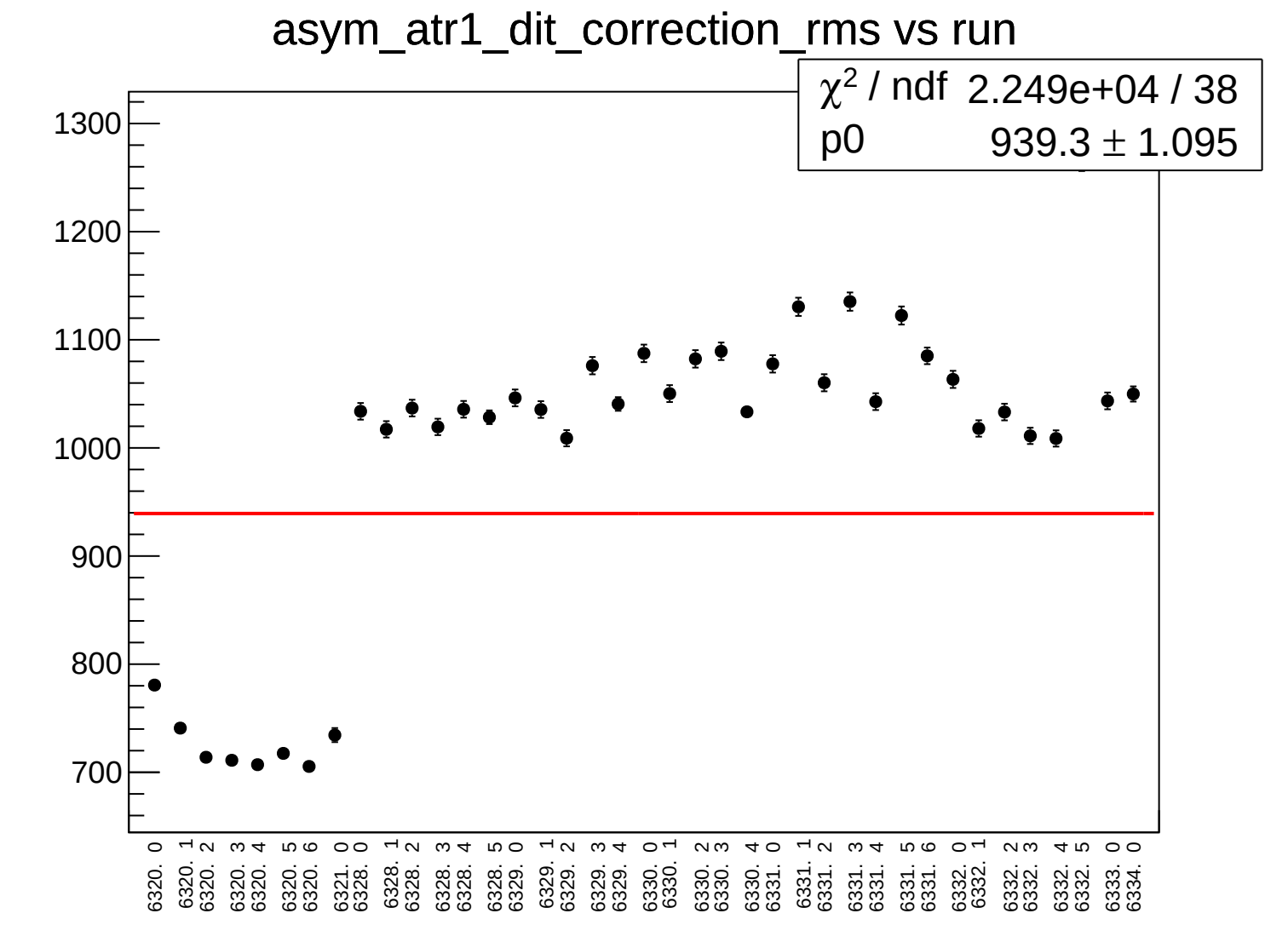

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 35.95 / 38
p0 1.12e+04 ± 4459
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

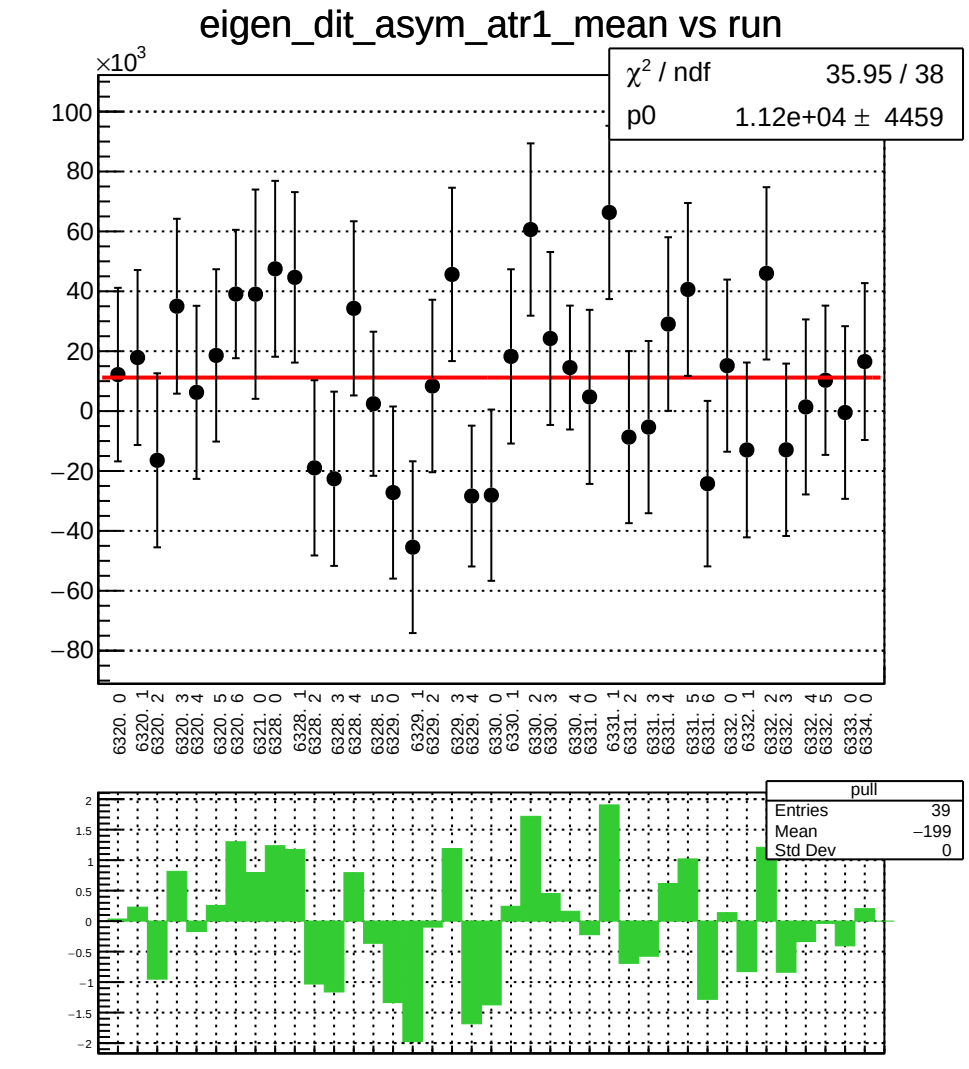

pull1D
Entries 39
Mean 0.003647
Std Dev 0.9601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

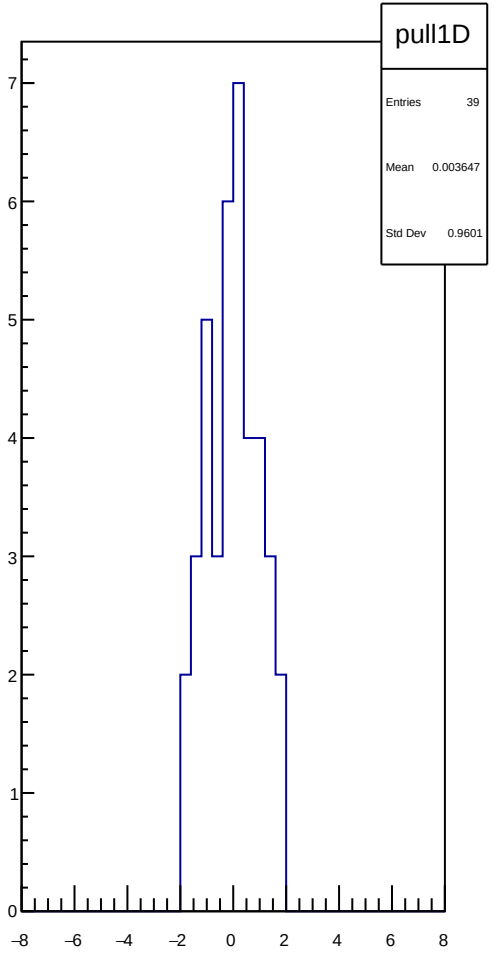

dit_asym_atr1_rms vs run
χ² / ndf 40.03 / 38
p0 2745 ± 3.153
2820
2800
2780
2760
2740
2720
2700
2680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

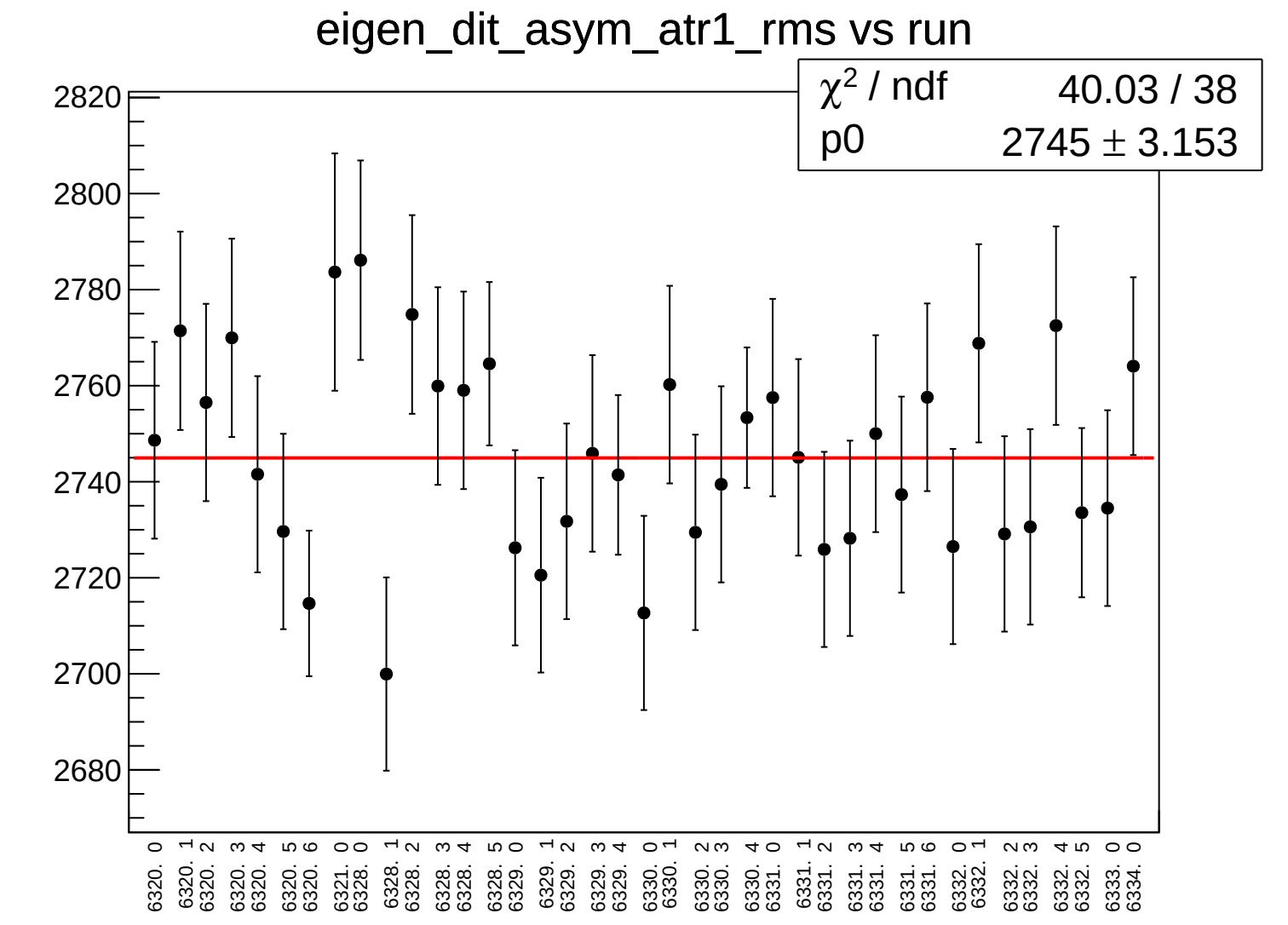

asym_atr1_dit_correction_mean vs run
χ² / ndf 35.21 / 38
p0 −987.7 ± 1549
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

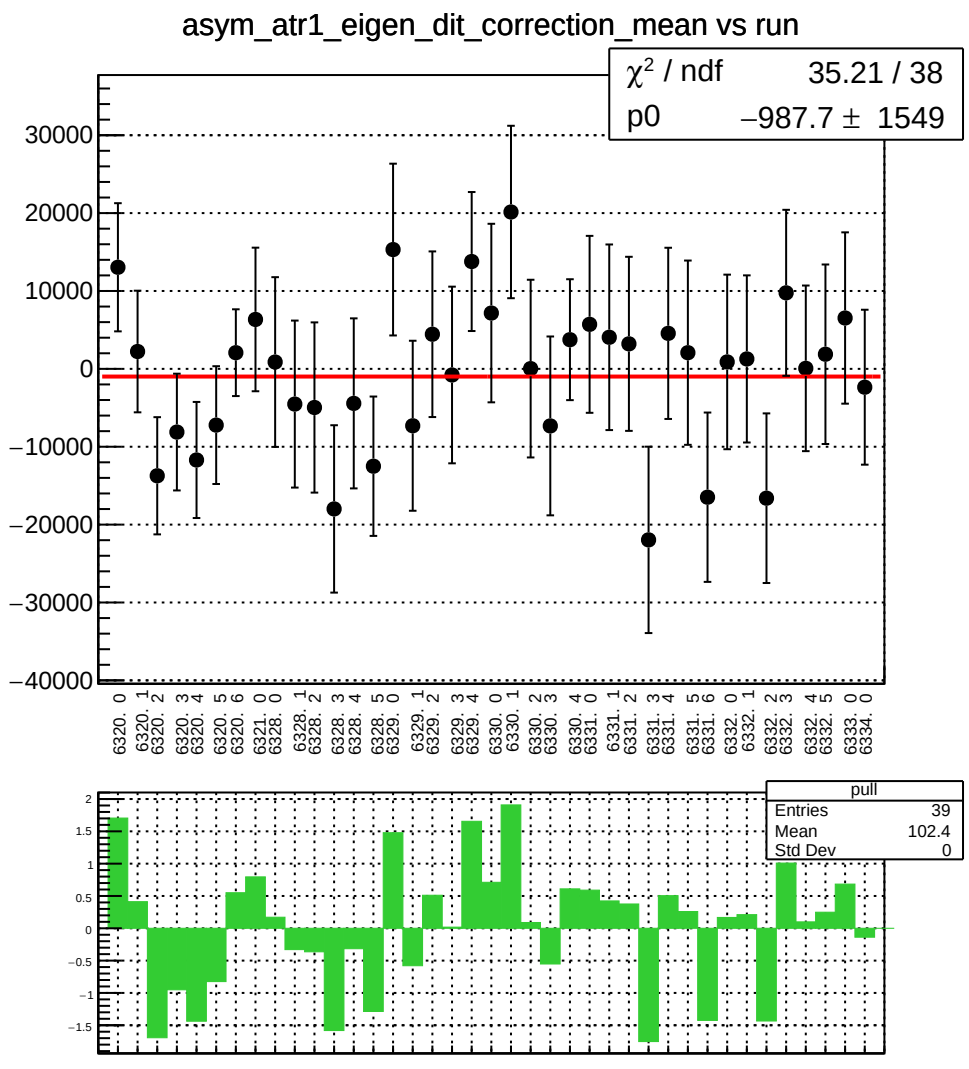

pull1D
Entries 39
Mean 0.01339
Std Dev 0.9501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

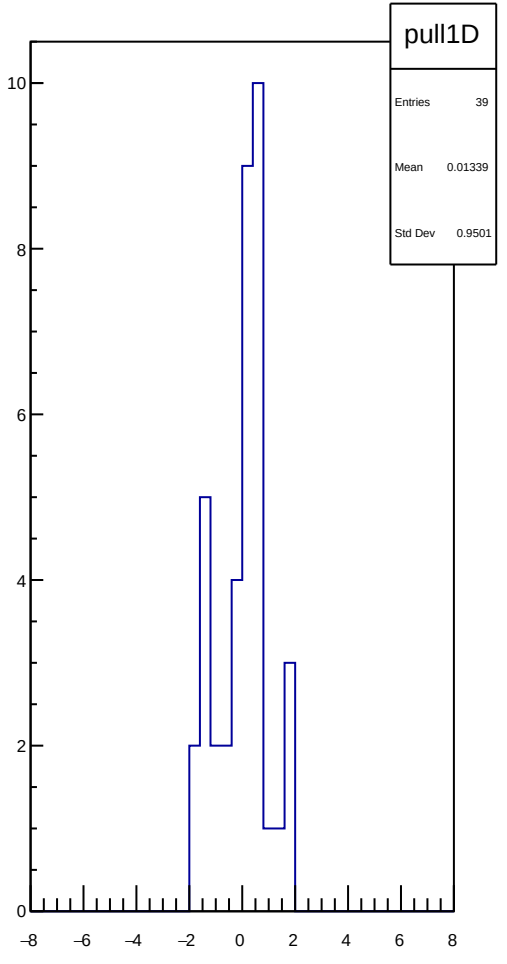

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.249e+04 / 38
p0 939.3 ± 1.095
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

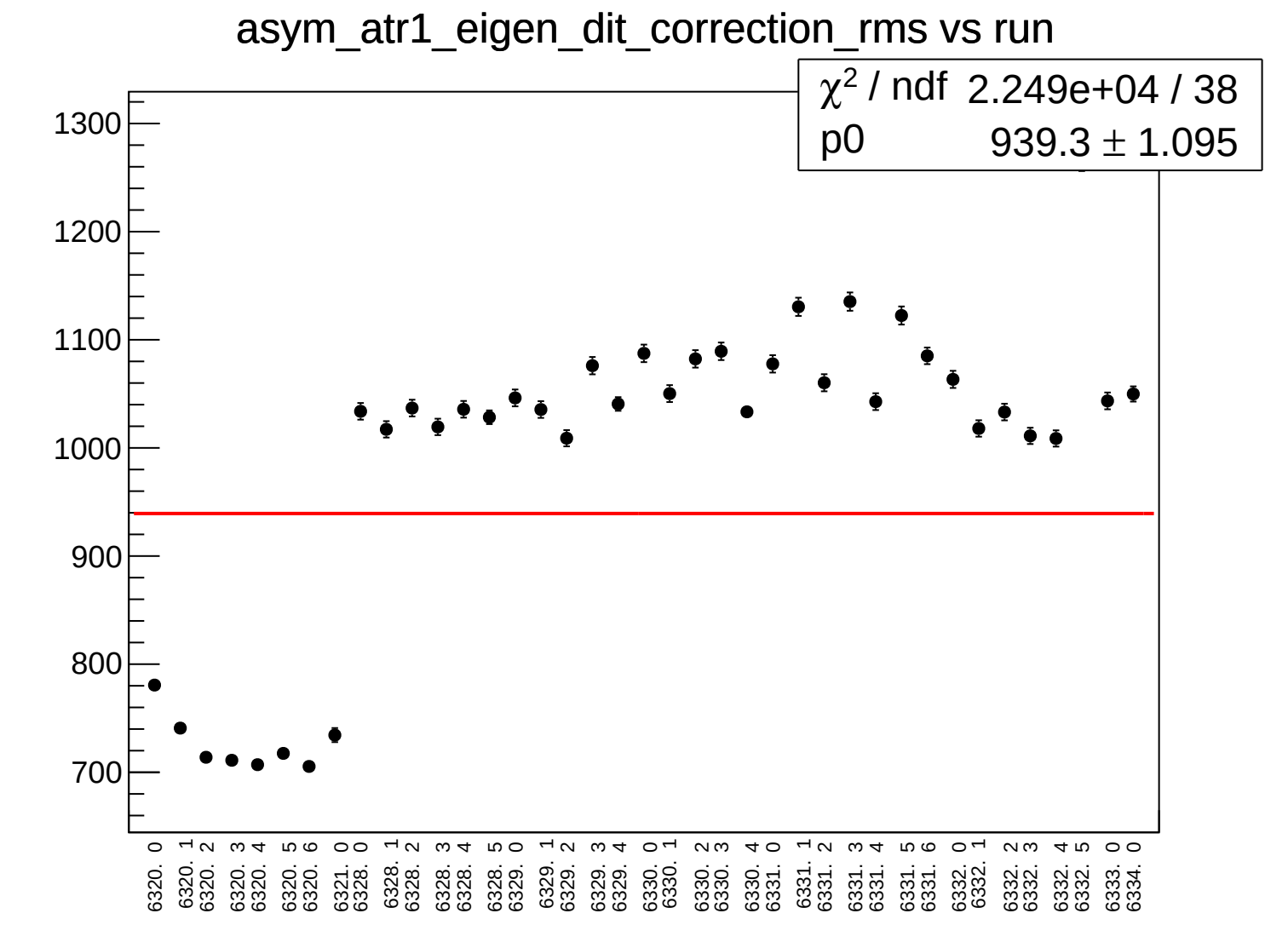

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 35.95 / 38
p0 1.12e+04 ± 4459
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

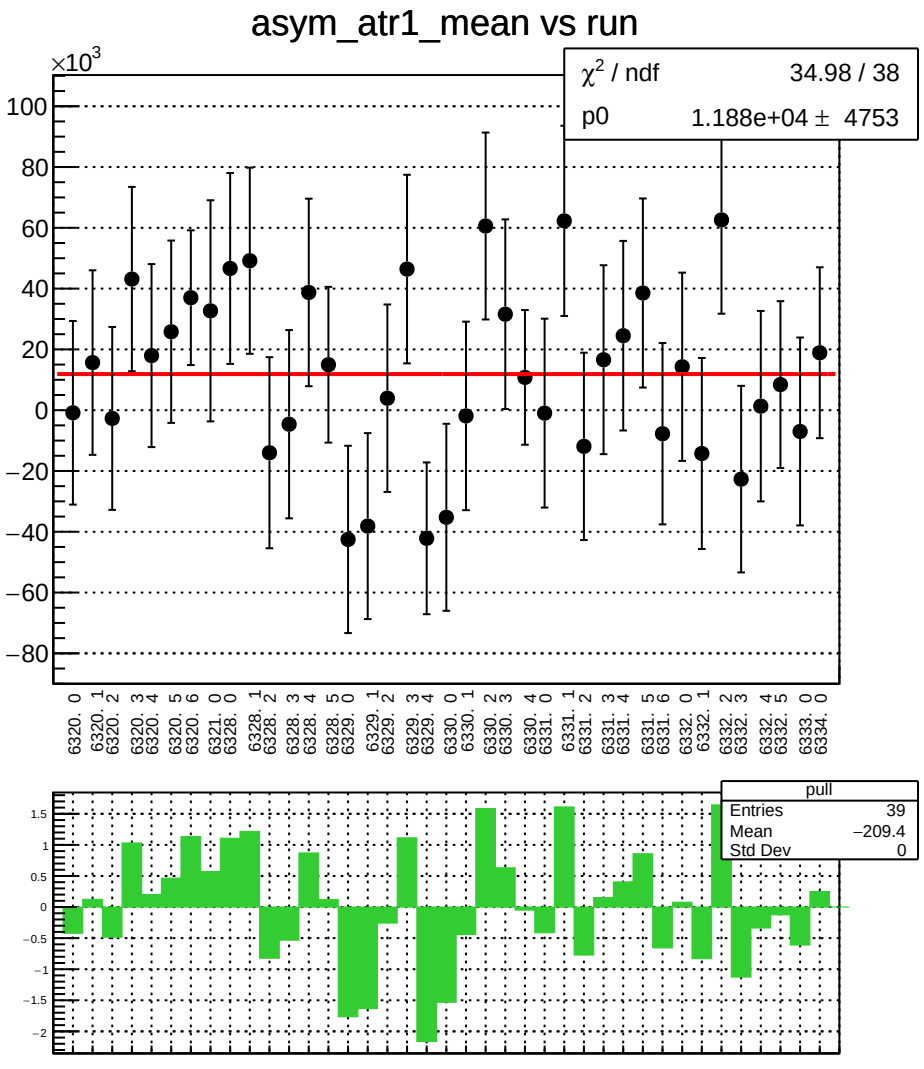

pull1D
Entries 39
Mean 0.003647
Std Dev 0.9601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

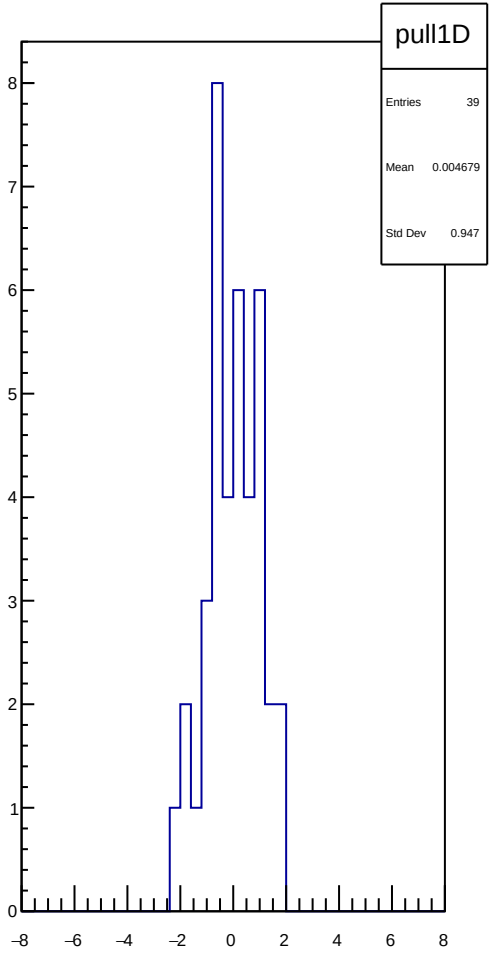

eigen_dit_asym_atr1_rms vs run
χ² / ndf 40.03 / 38
p0 2745 ± 3.153
2820
2800
2780
2760
2740
2720
2700
2680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

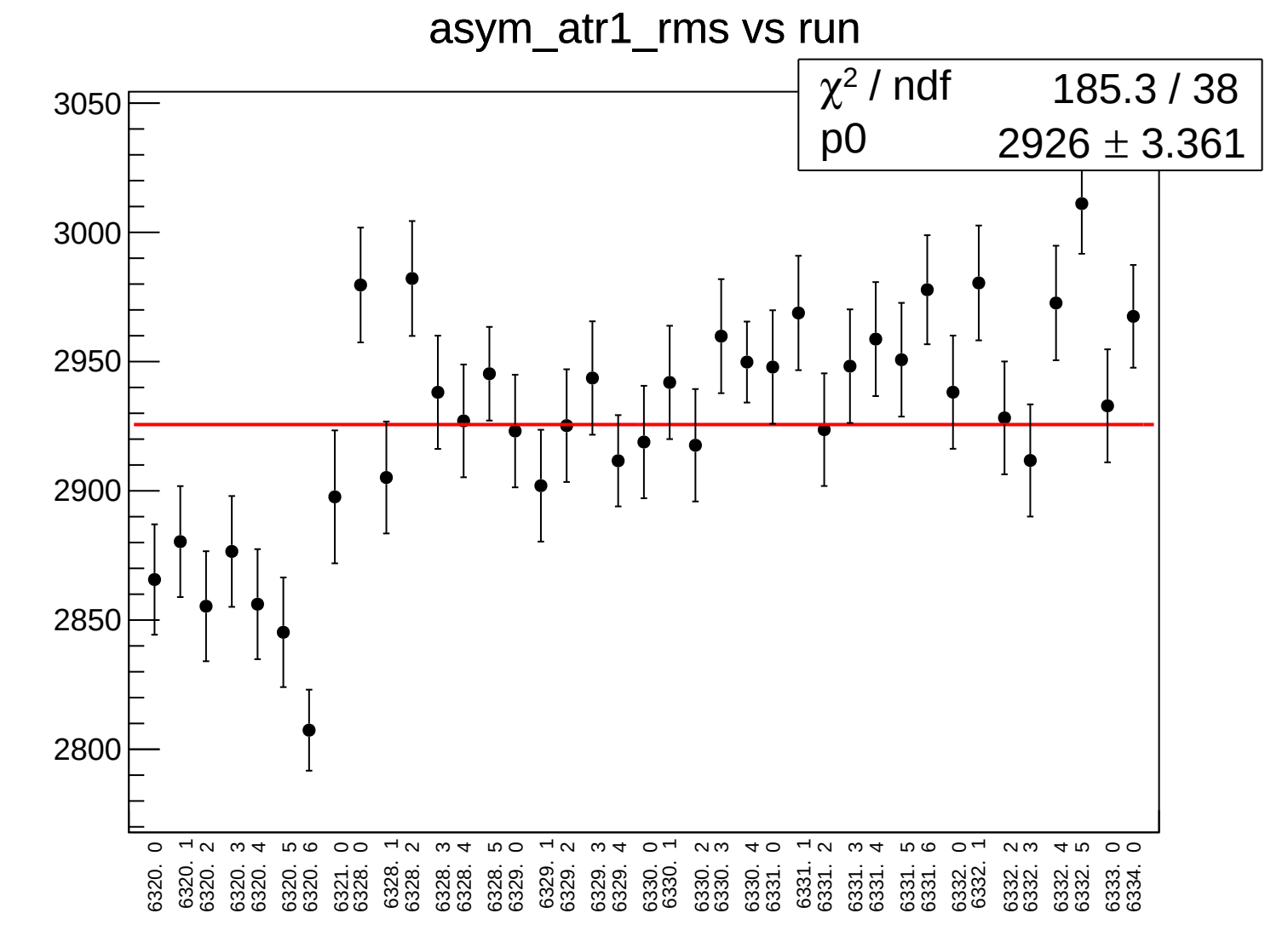

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 35.21 / 38
p0 −987.7 ± 1549
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

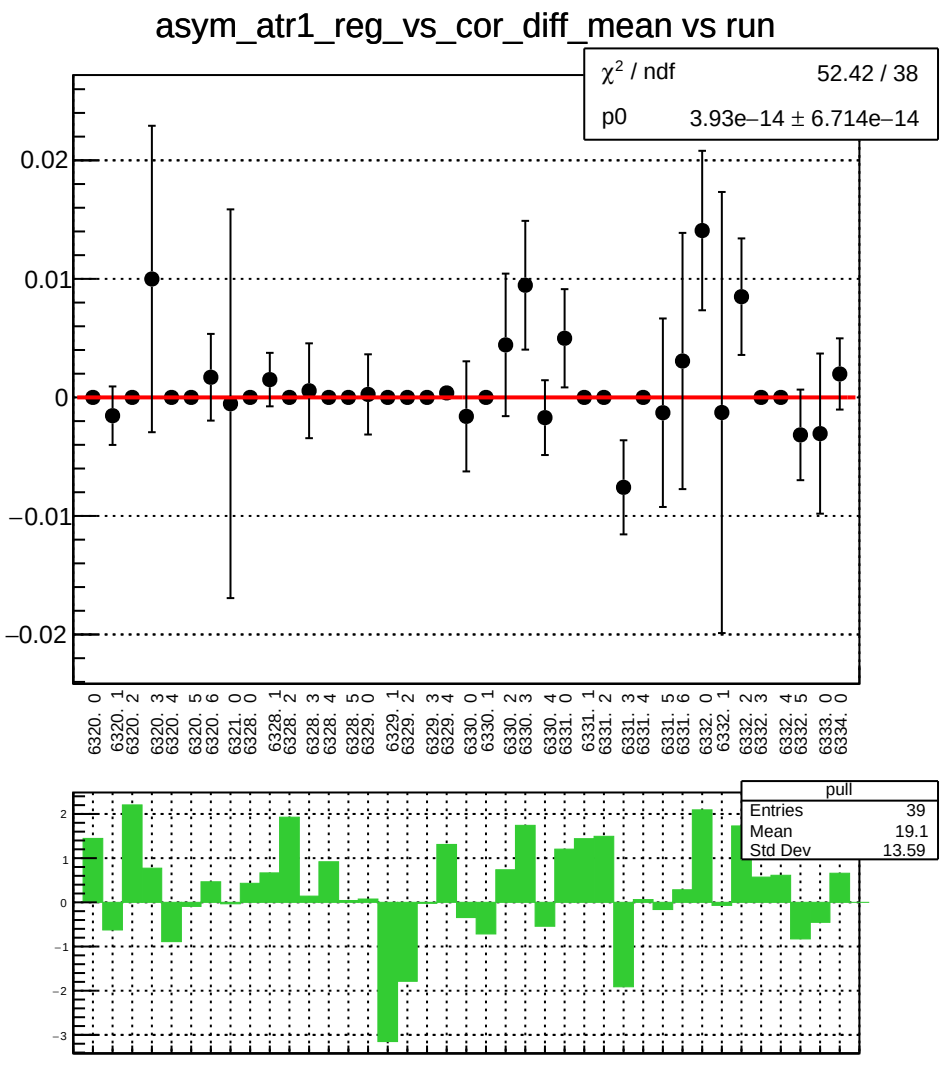

pull1D
Entries 39
Mean 0.01339
Std Dev 0.9501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

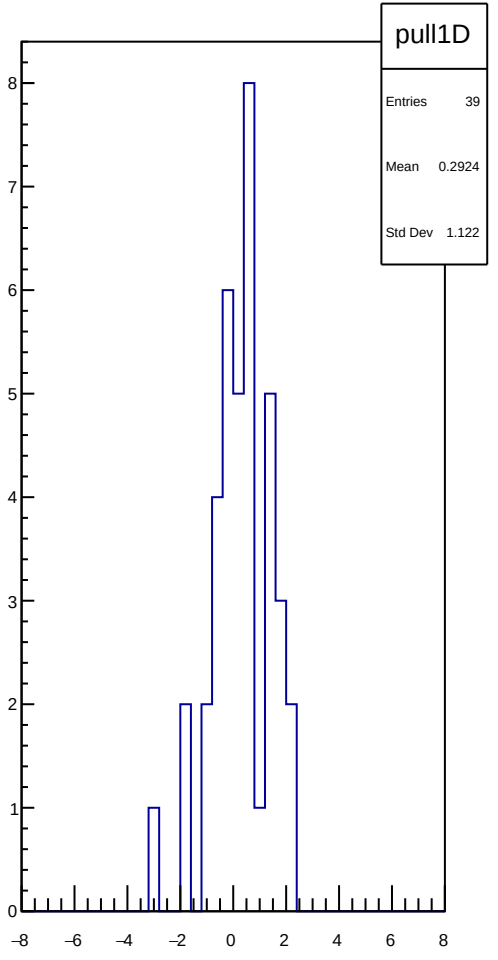

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.249e+04 / 38
p0 939.3 ± 1.095
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

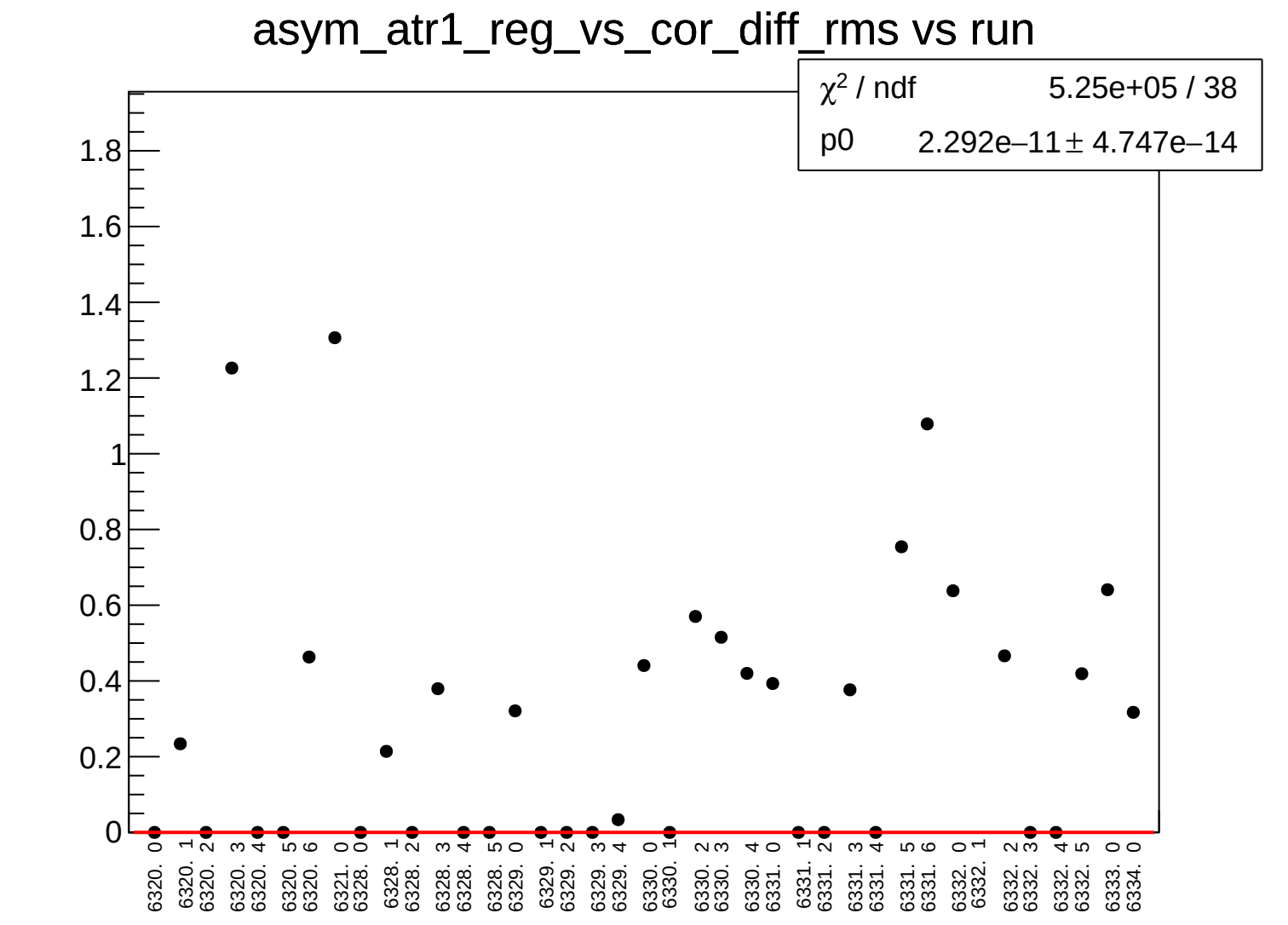

asym_atr1_mean vs run
×10^3
χ² / ndf 34.98 / 38
p0 1.188e+04 ± 4753
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −209.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

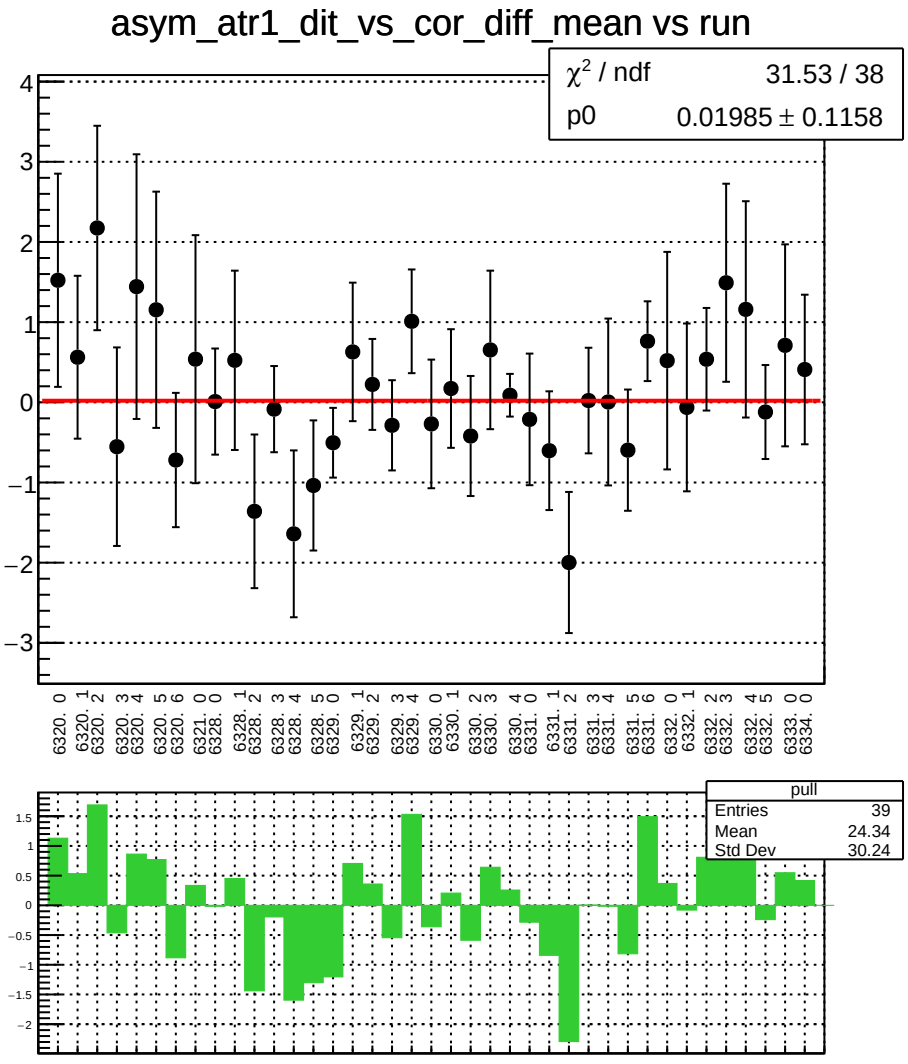

pull1D
Entries 39
Mean 0.004679
Std Dev 0.947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

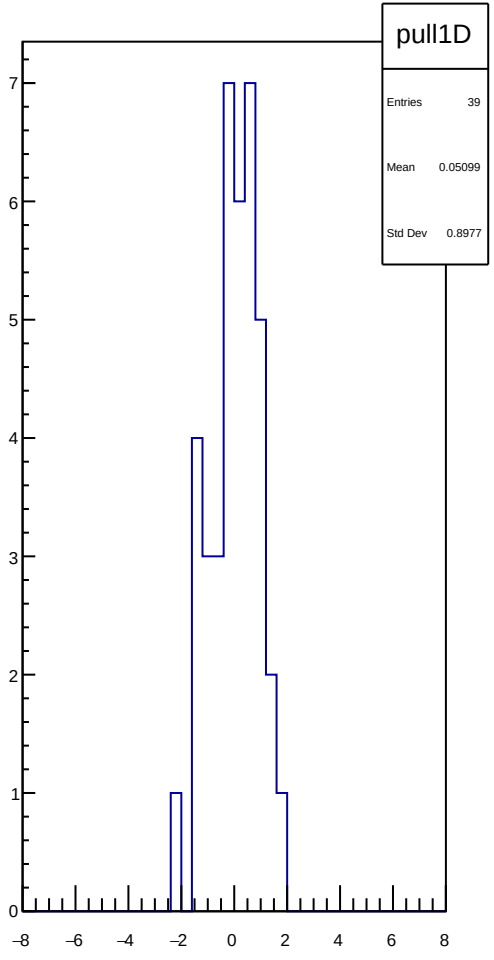

asym_atr1_rms vs run
χ² / ndf 185.3 / 38
p0 2926 ± 3.361
3050
3000
2950
2900
2850
2800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

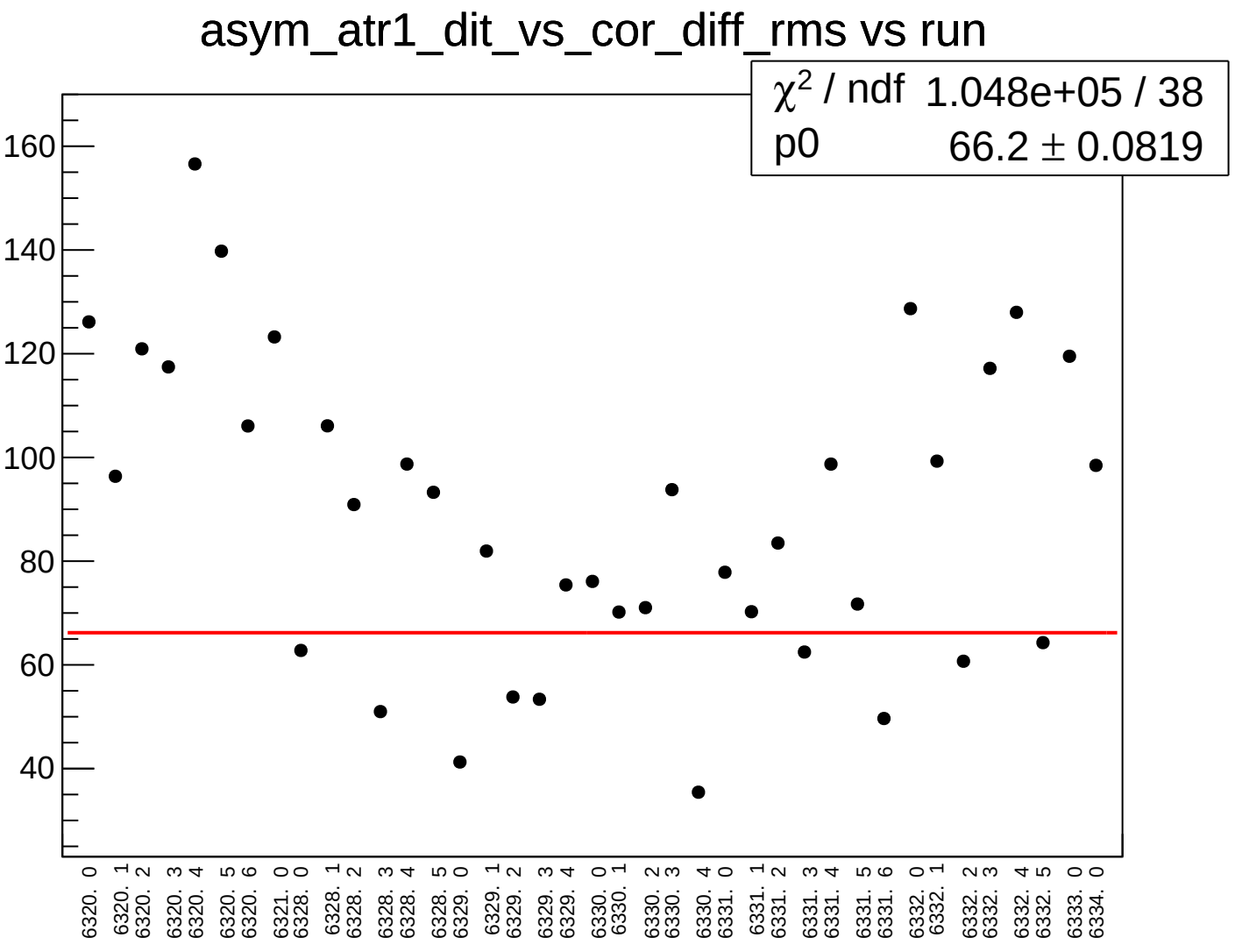

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 52.42 / 38
p0 3.93e−14 ± 6.714e−14
0.02
0.01
0
−0.01
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.1
Std Dev 13.59
2
1
0
−1
−2
−3

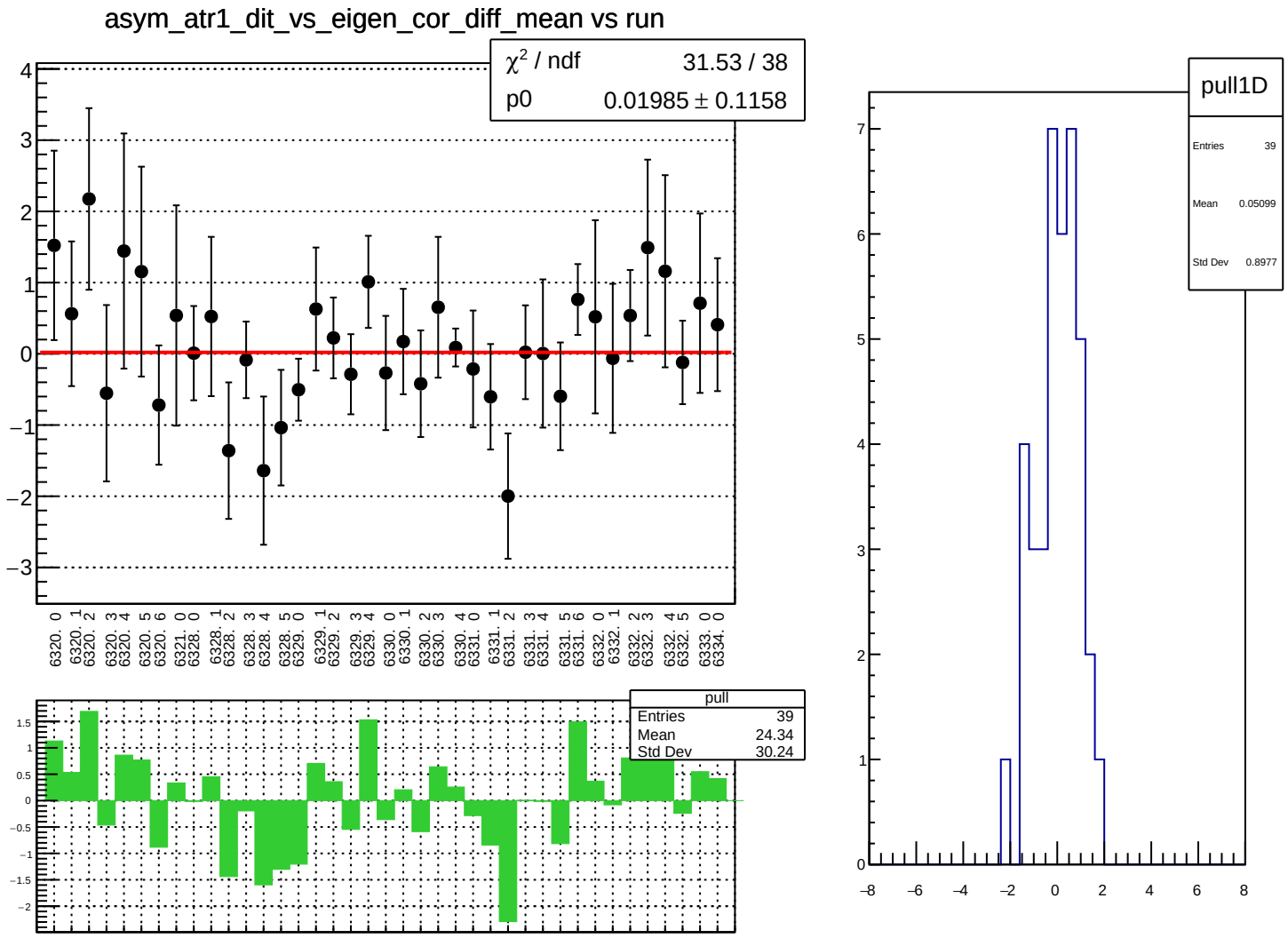

pull1D
Entries 39
Mean 0.2924
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

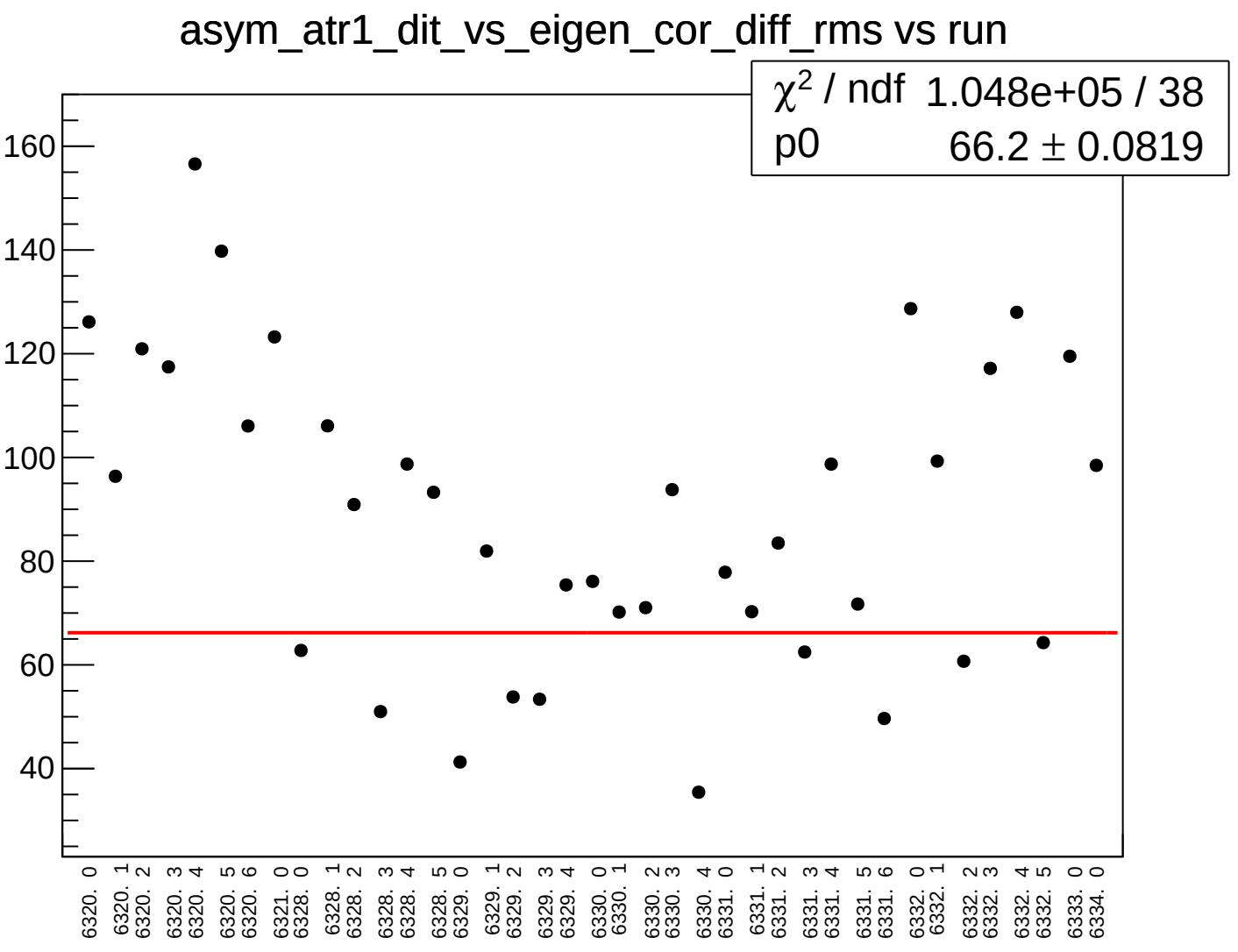

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.25e+05 / 38
p0 2.292e−11 ± 4.747e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

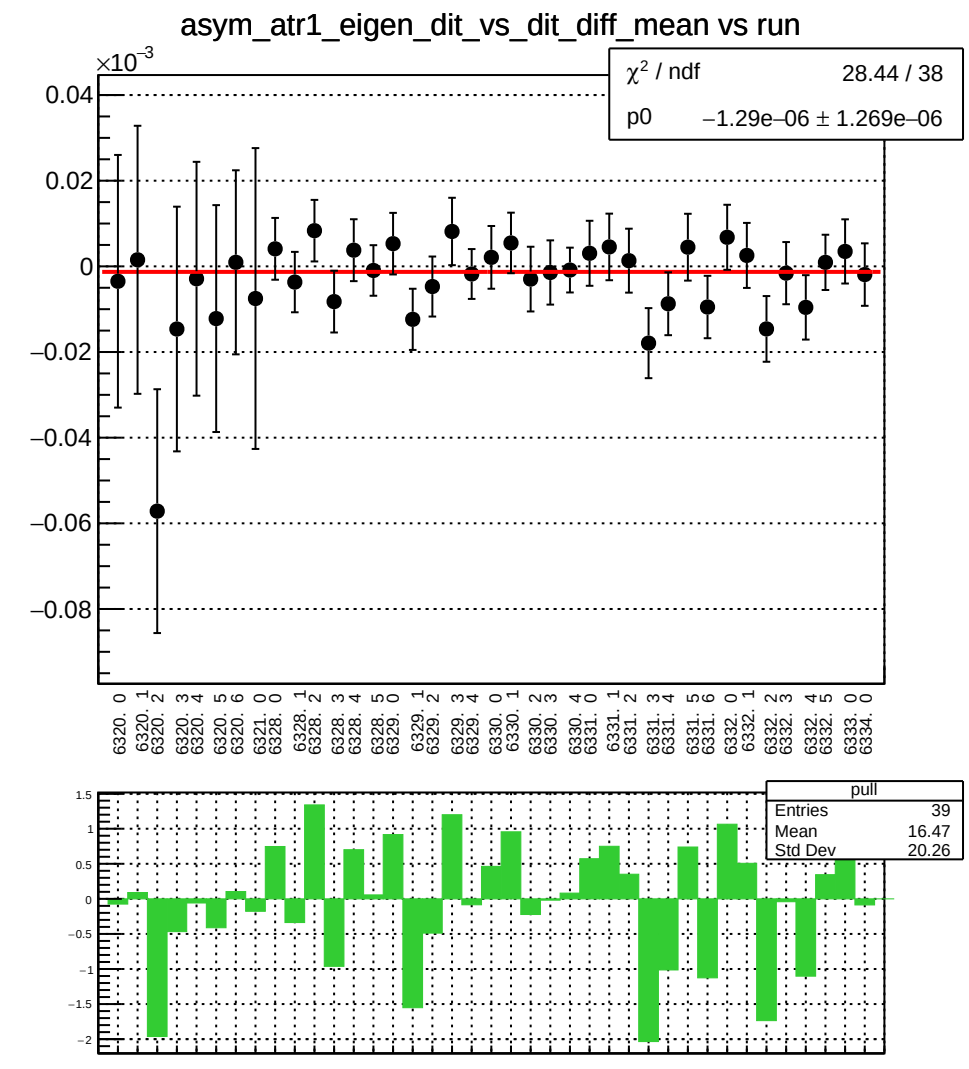

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 31.53 / 38
p0 0.01985 ± 0.1158
pull
Entries 39
Mean 24.34
Std Dev 30.24

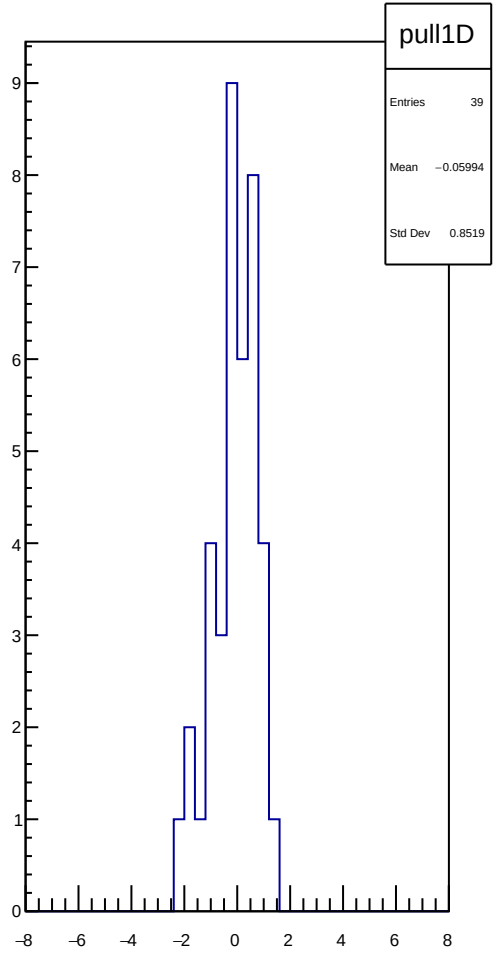

pull1D
Entries 39
Mean 0.05099
Std Dev 0.8977

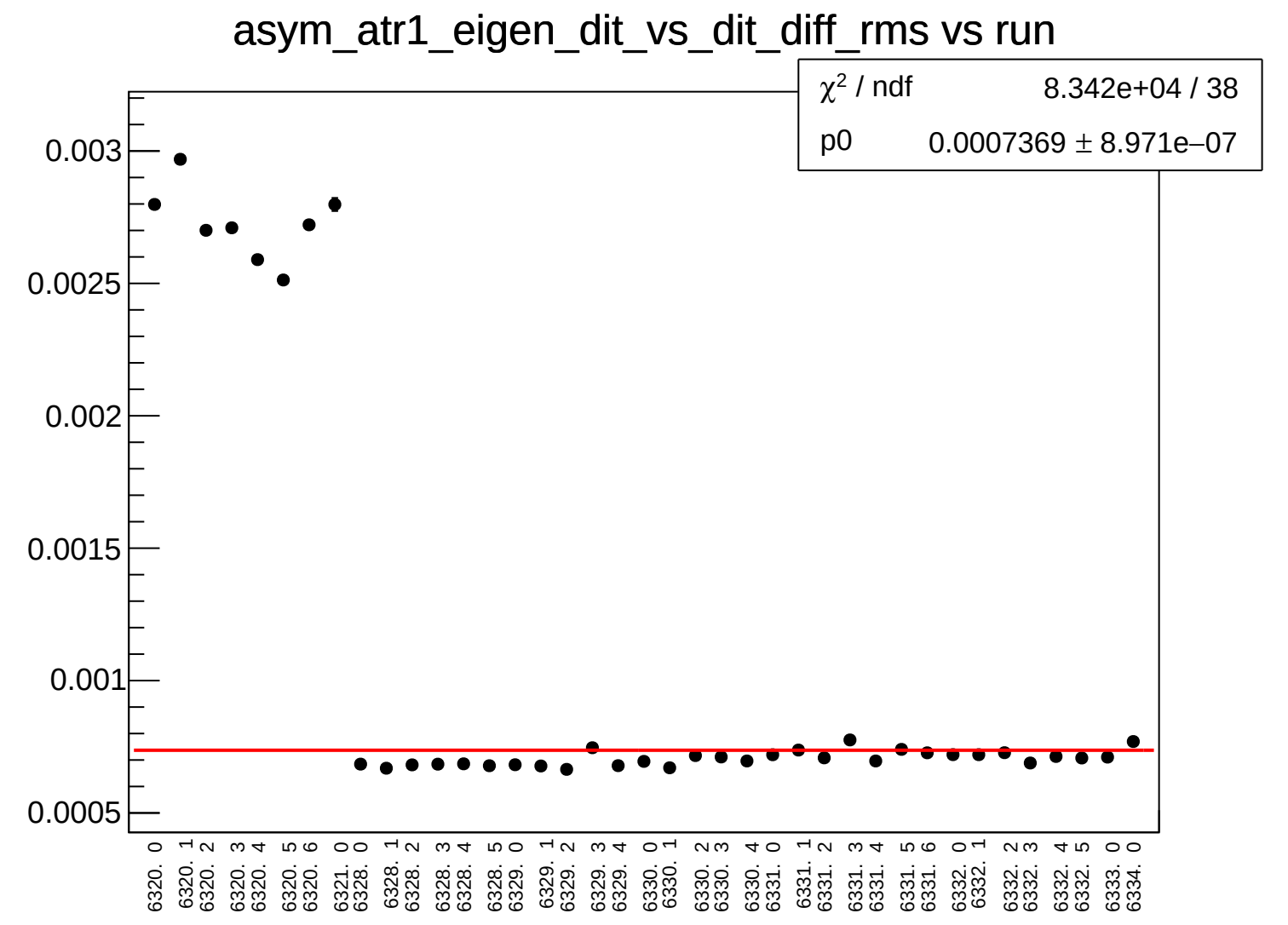

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.048e+05 / 38
p0 66.2 ± 0.0819
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

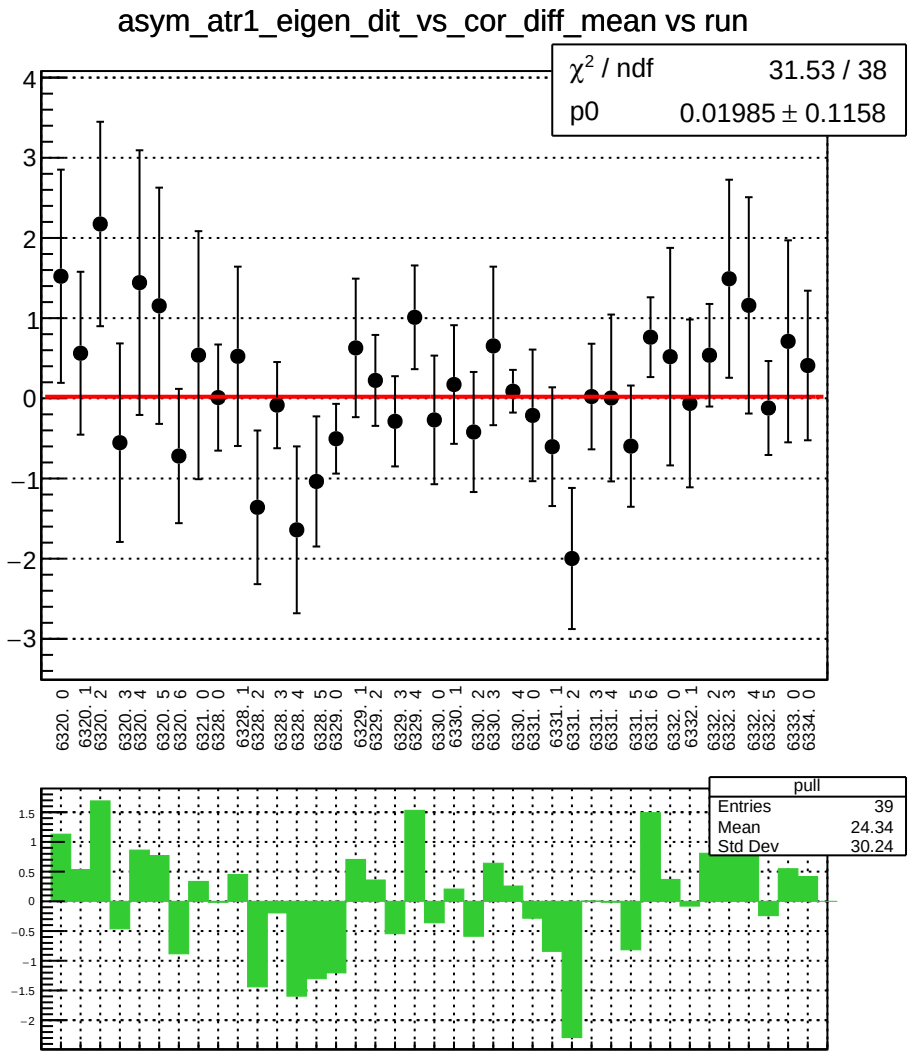

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.53 / 38
p0 0.01985 ± 0.1158
pull
Entries 39
Mean 24.34
Std Dev 30.24
pull1D
Entries 39
Mean 0.05099
Std Dev 0.8977

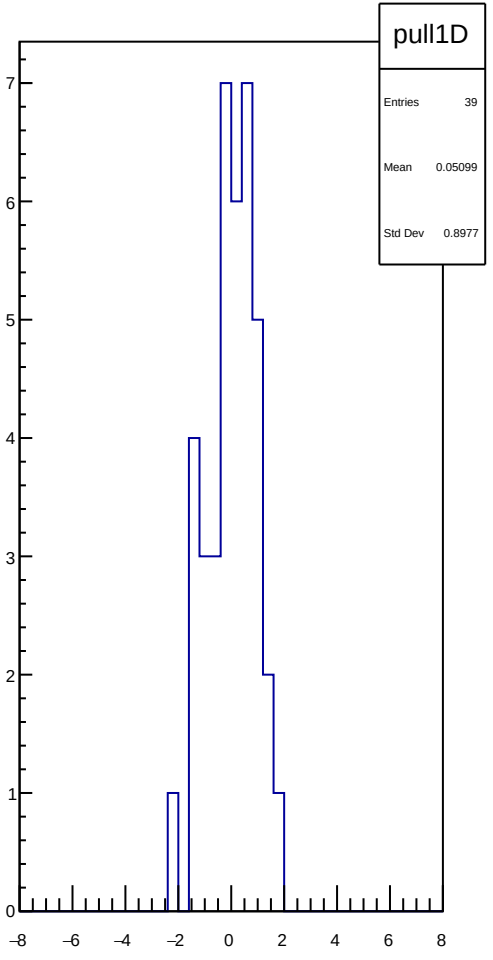

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.048e+05 / 38
p0 66.2 ± 0.0819
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

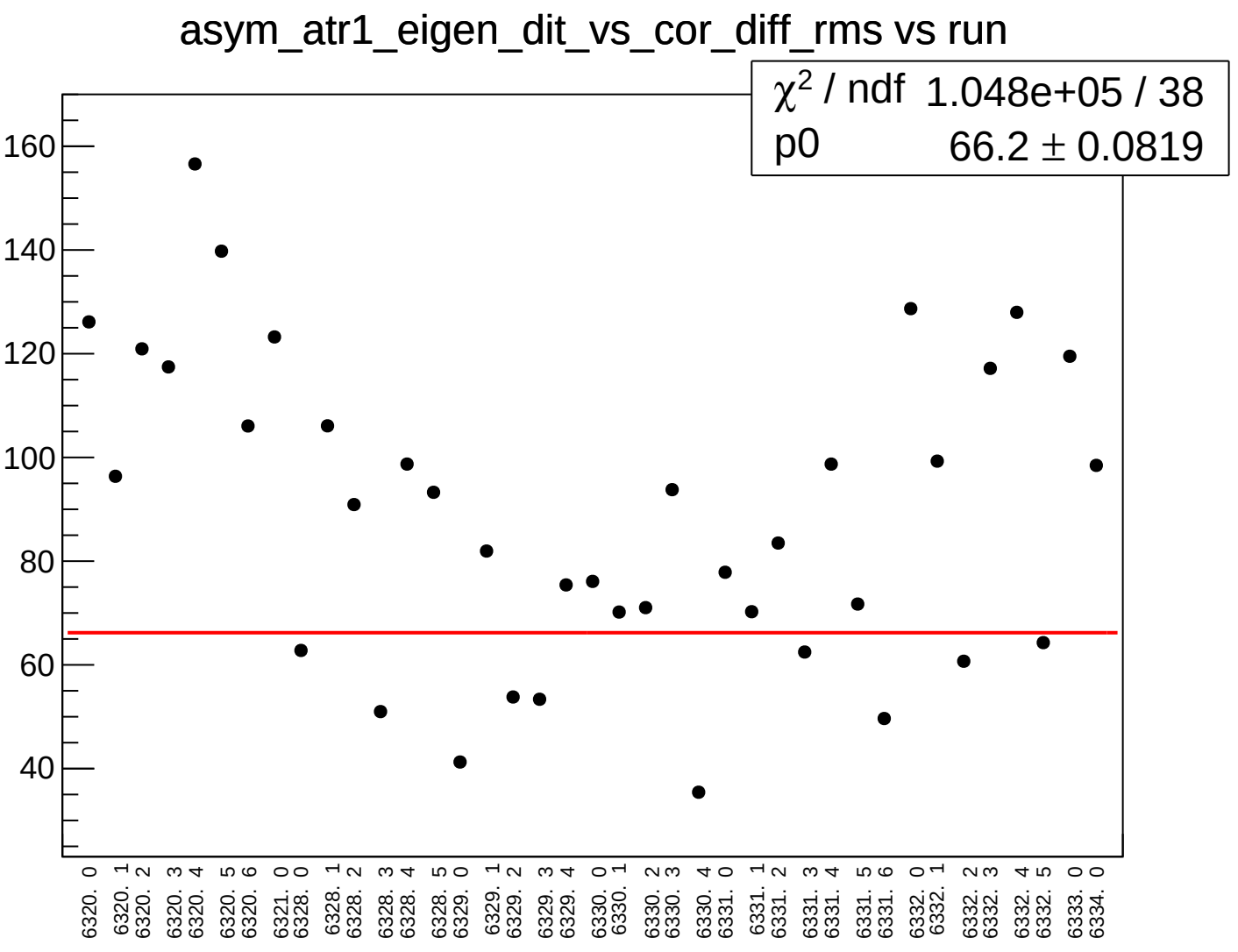

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.44 / 38
p0 −1.29e−06 ± 1.269e−06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 16.47
Std Dev 20.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2

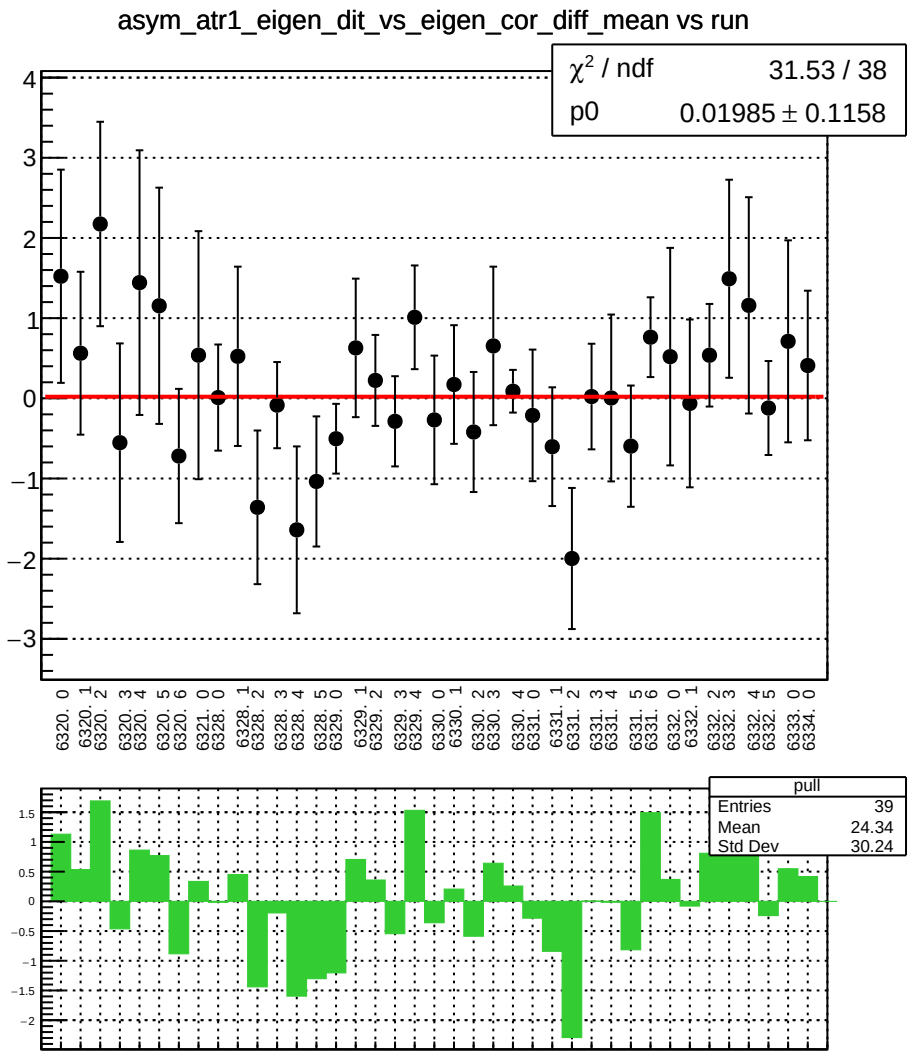

pull1D
Entries 39
Mean −0.05994
Std Dev 0.8519
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

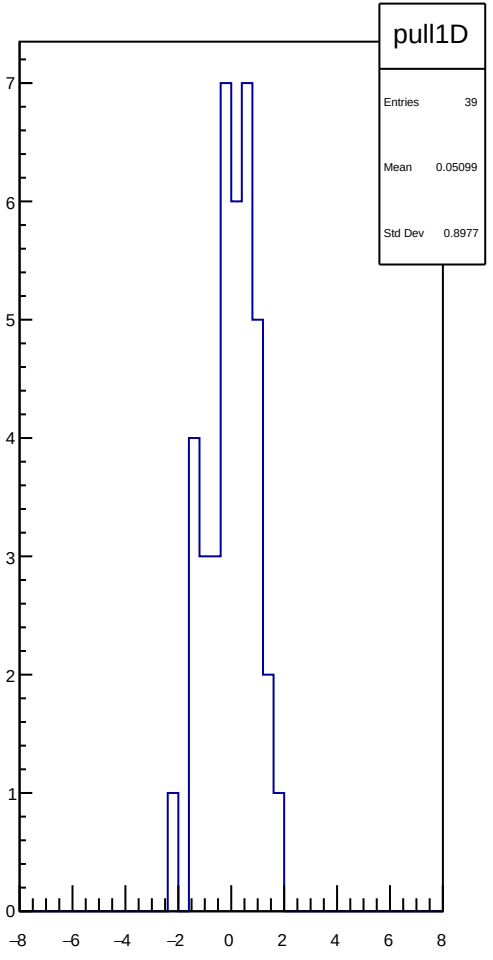

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.342e+04 / 38
p0 0.0007369 ± 8.971e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

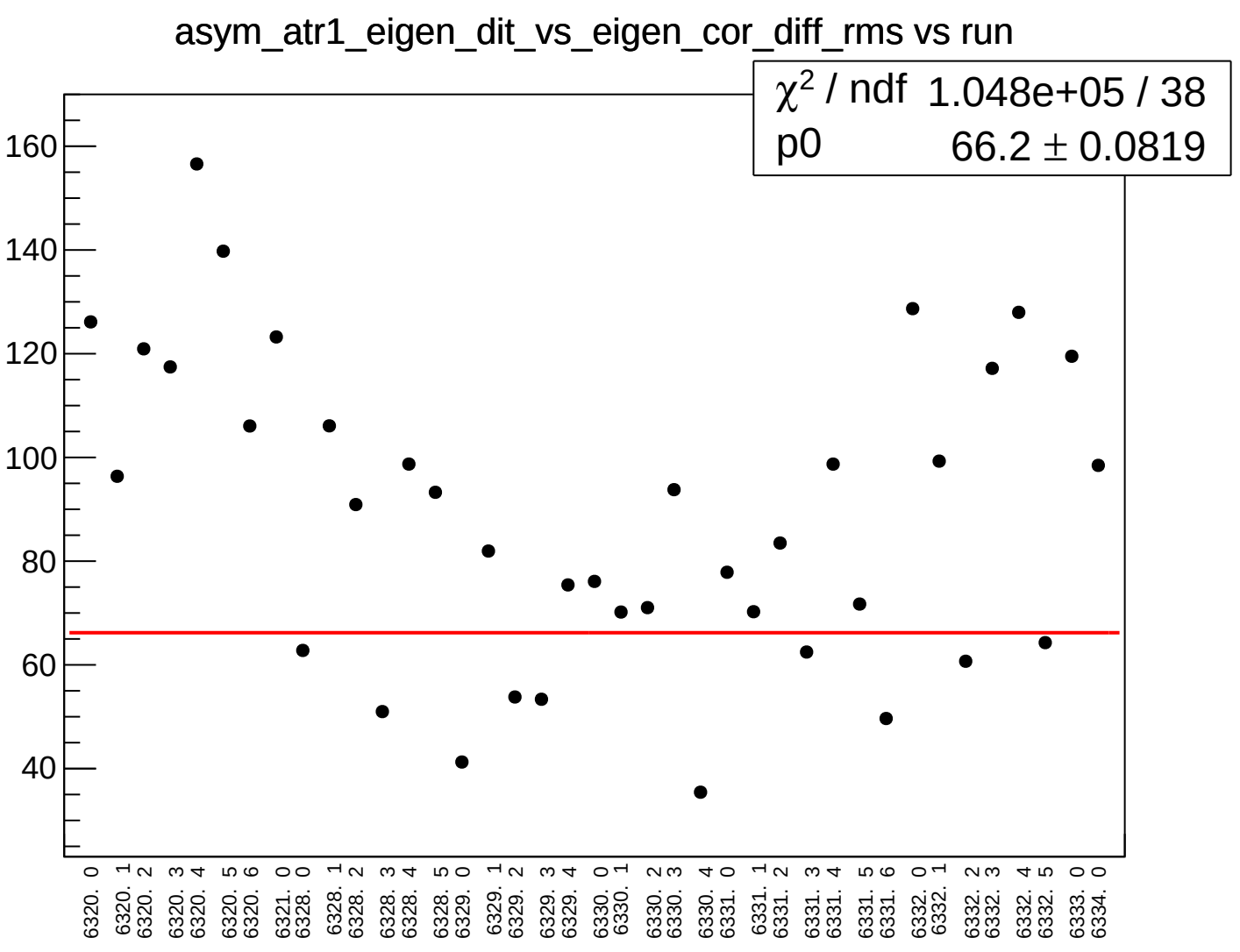

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.53 / 38
p0 0.01985 ± 0.1158
pull
Entries 39
Mean 24.34
Std Dev 30.24

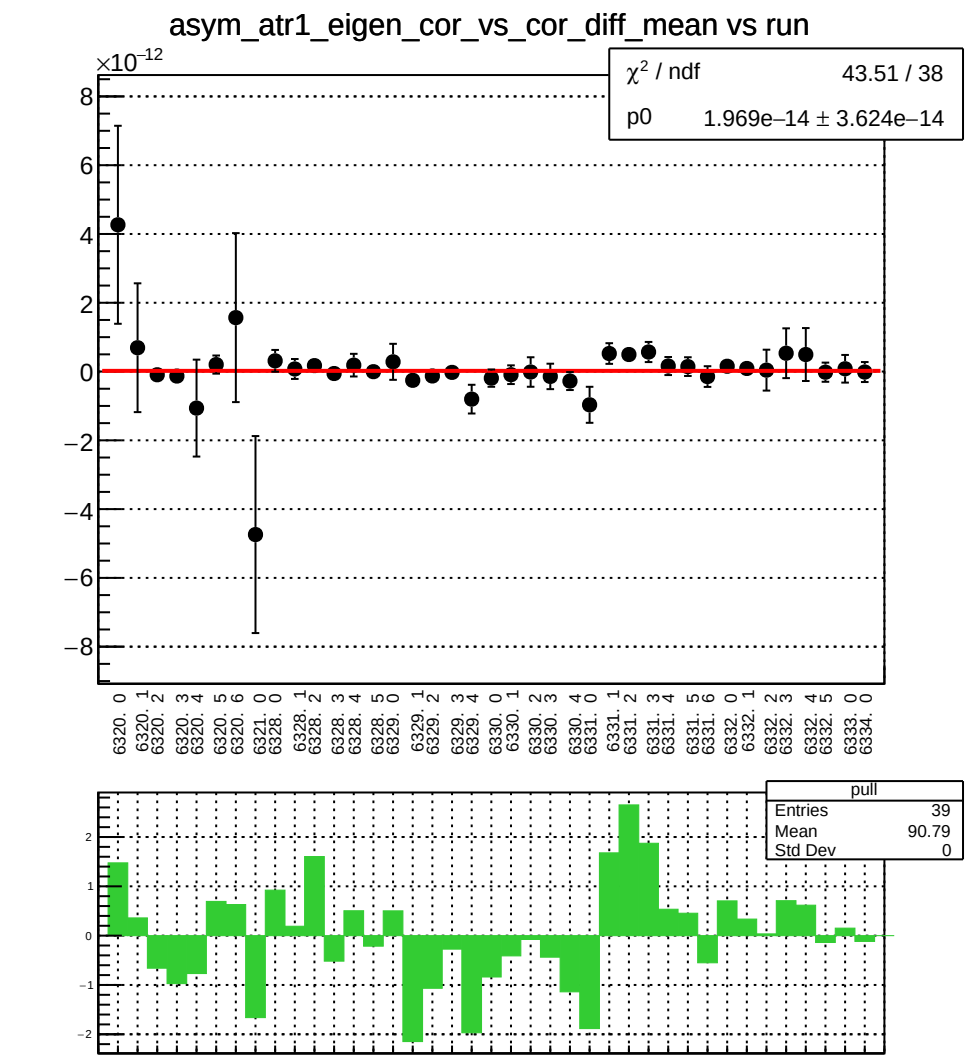

pull1D
Entries 39
Mean 0.05099
Std Dev 0.8977

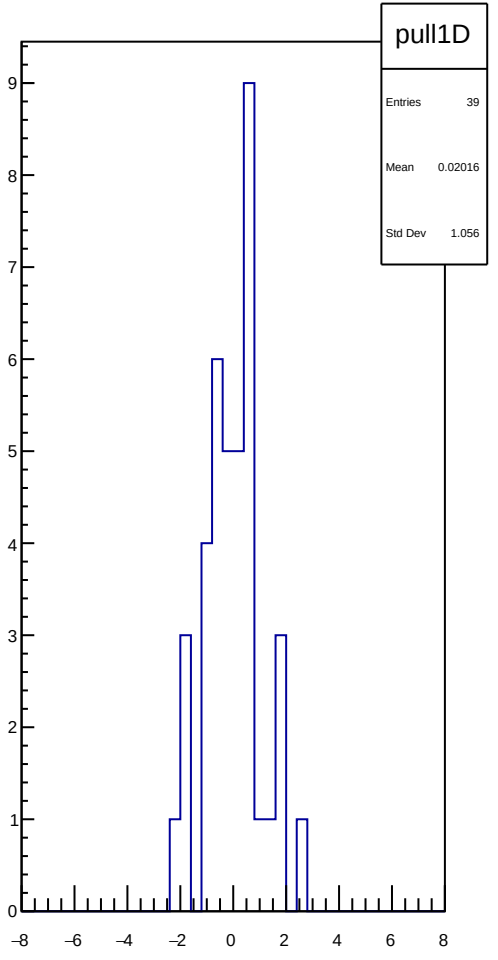

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.048e+05 / 38
p0 66.2 ± 0.0819
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

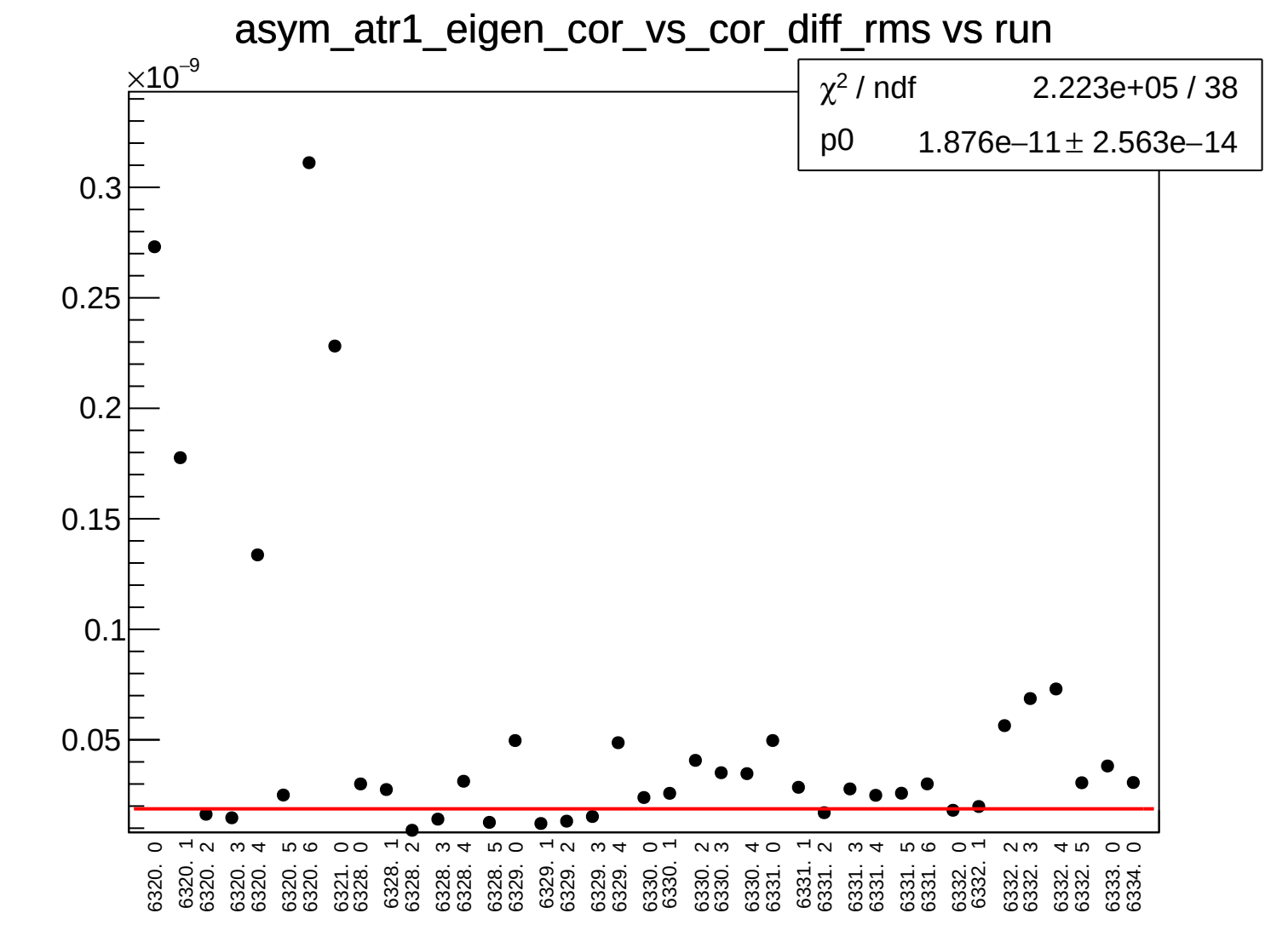

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.53 / 38
p0 0.01985 ± 0.1158
pull
Entries 39
Mean 24.34
Std Dev 30.24

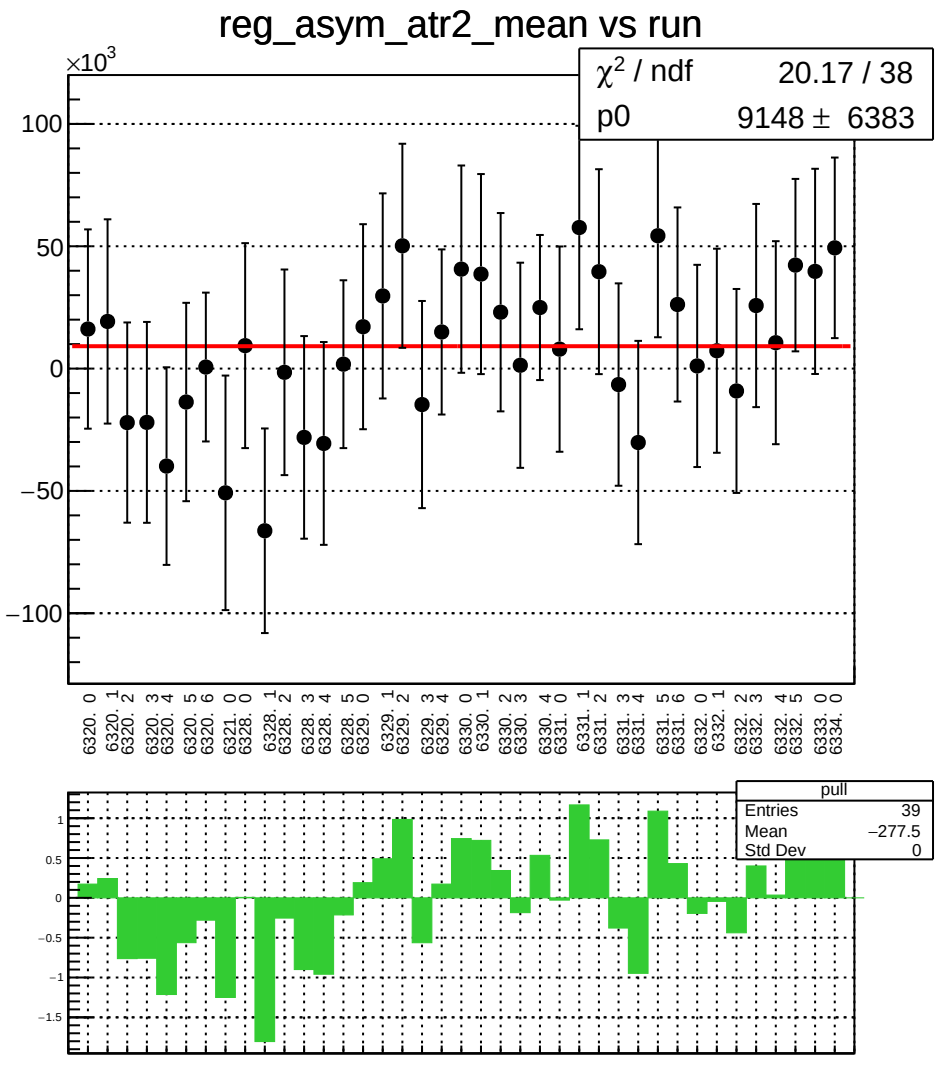

pull1D
Entries 39
Mean 0.05099
Std Dev 0.8977

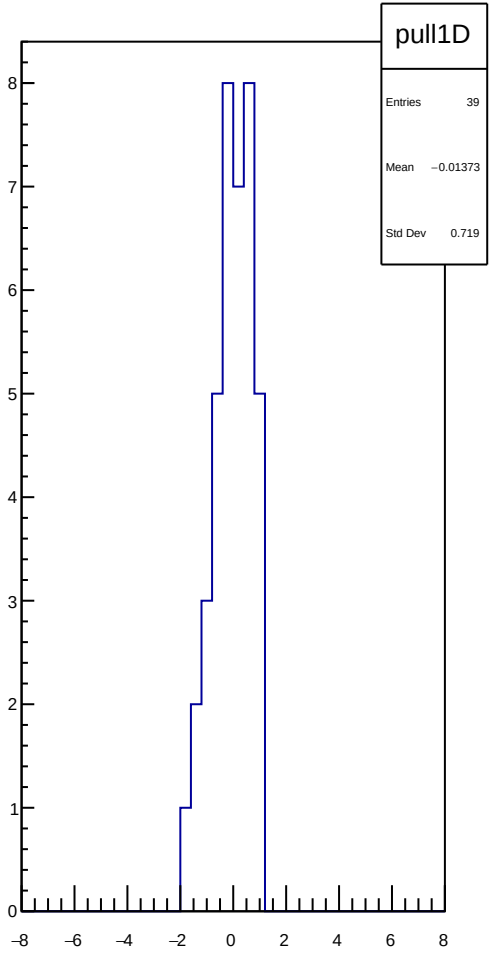

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.048e+05 / 38
p0 66.2 ± 0.0819
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

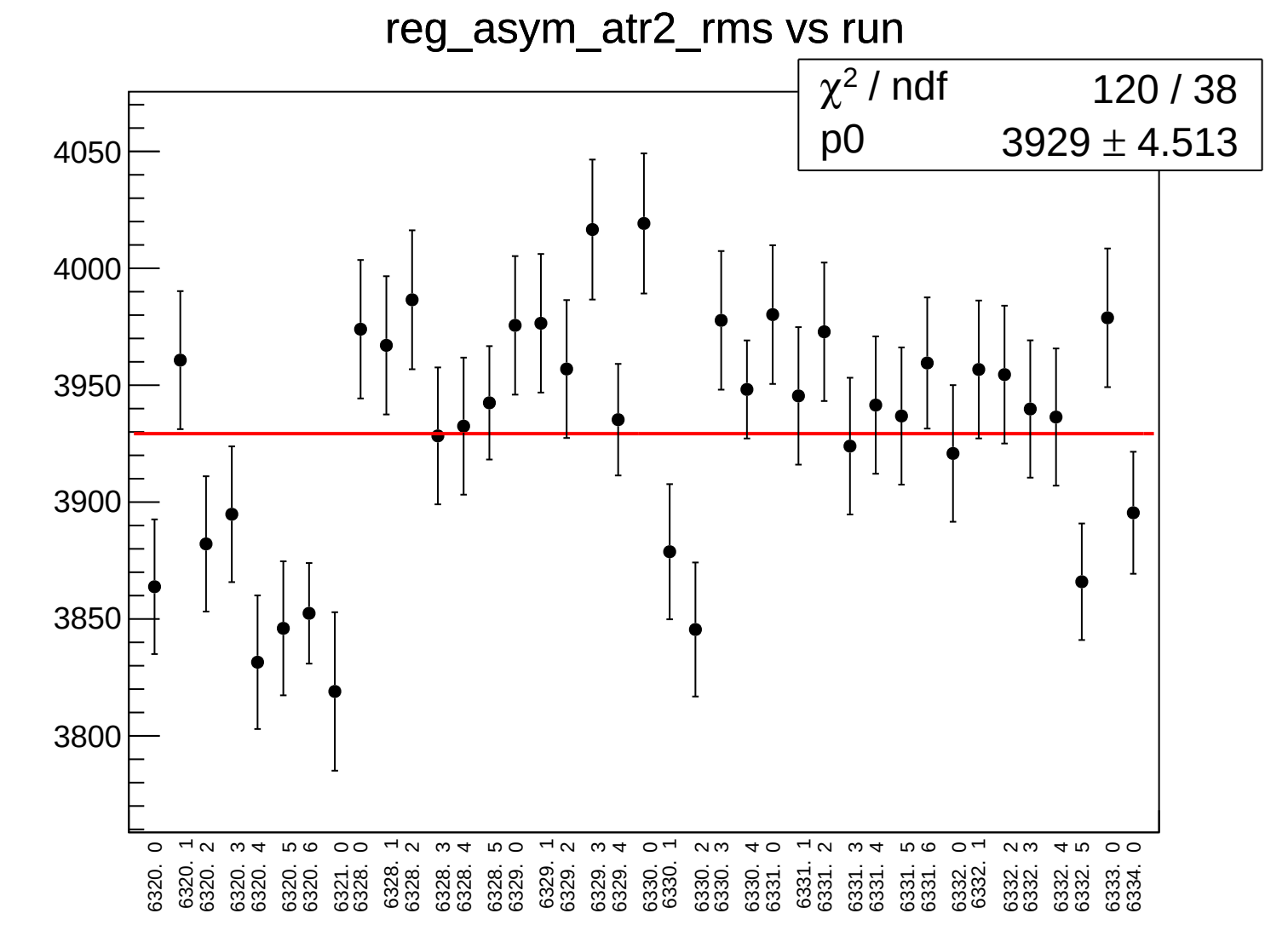

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.51 / 38
p0 1.969e−14 ± 3.624e−14
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 90.79
Std Dev 0
2
1
0
−1
−2

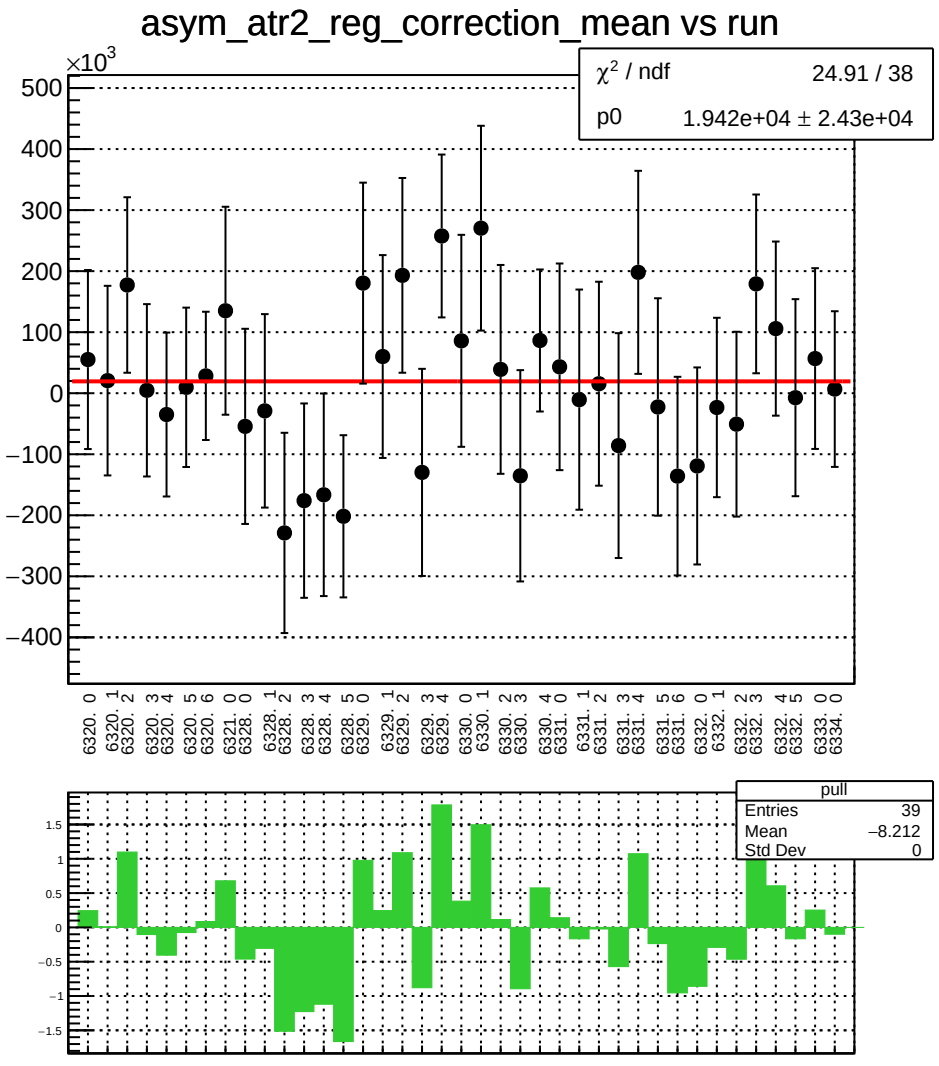

pull1D
Entries 39
Mean 0.02016
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

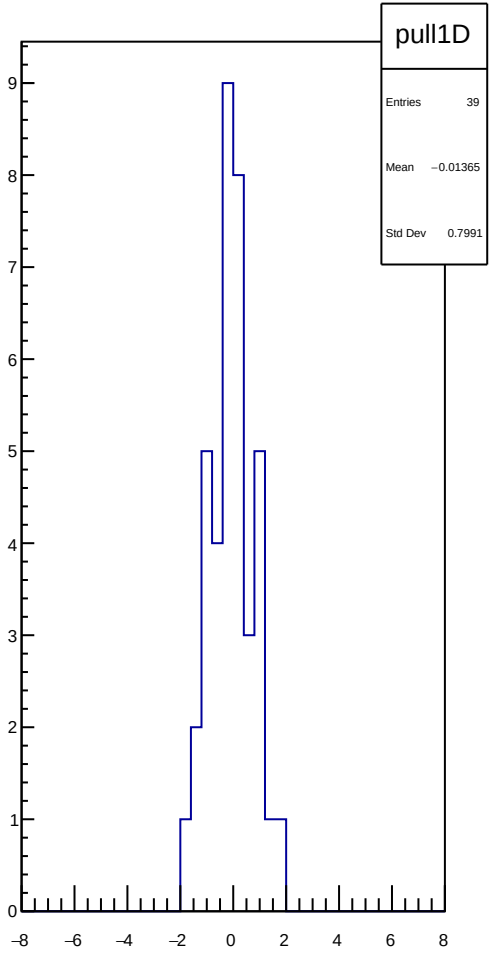

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.223e+05 / 38
p0 1.876e−11 ± 2.563e−14
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

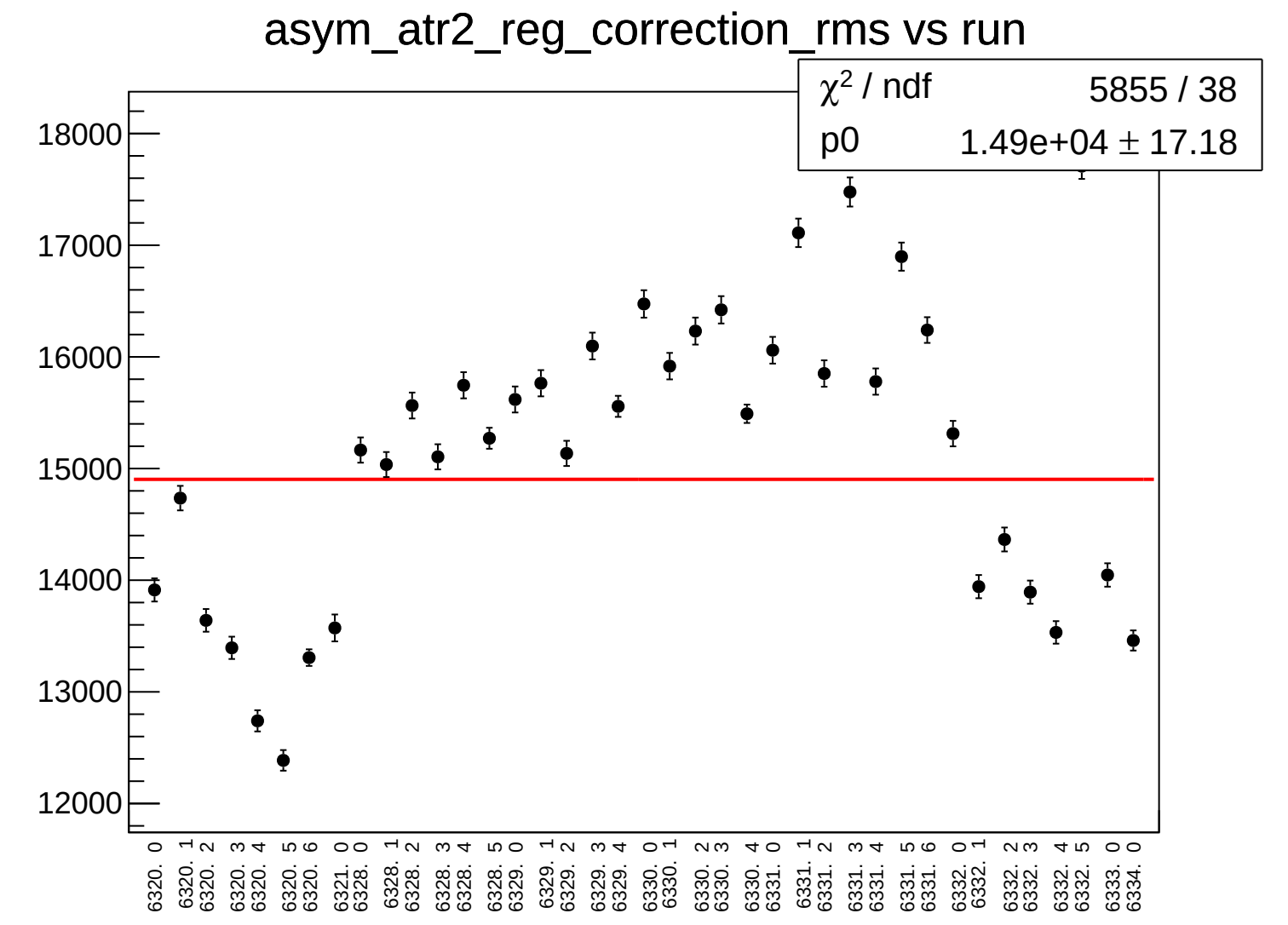

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 20.17 / 38
p0 9148 ± 6383
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −277.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

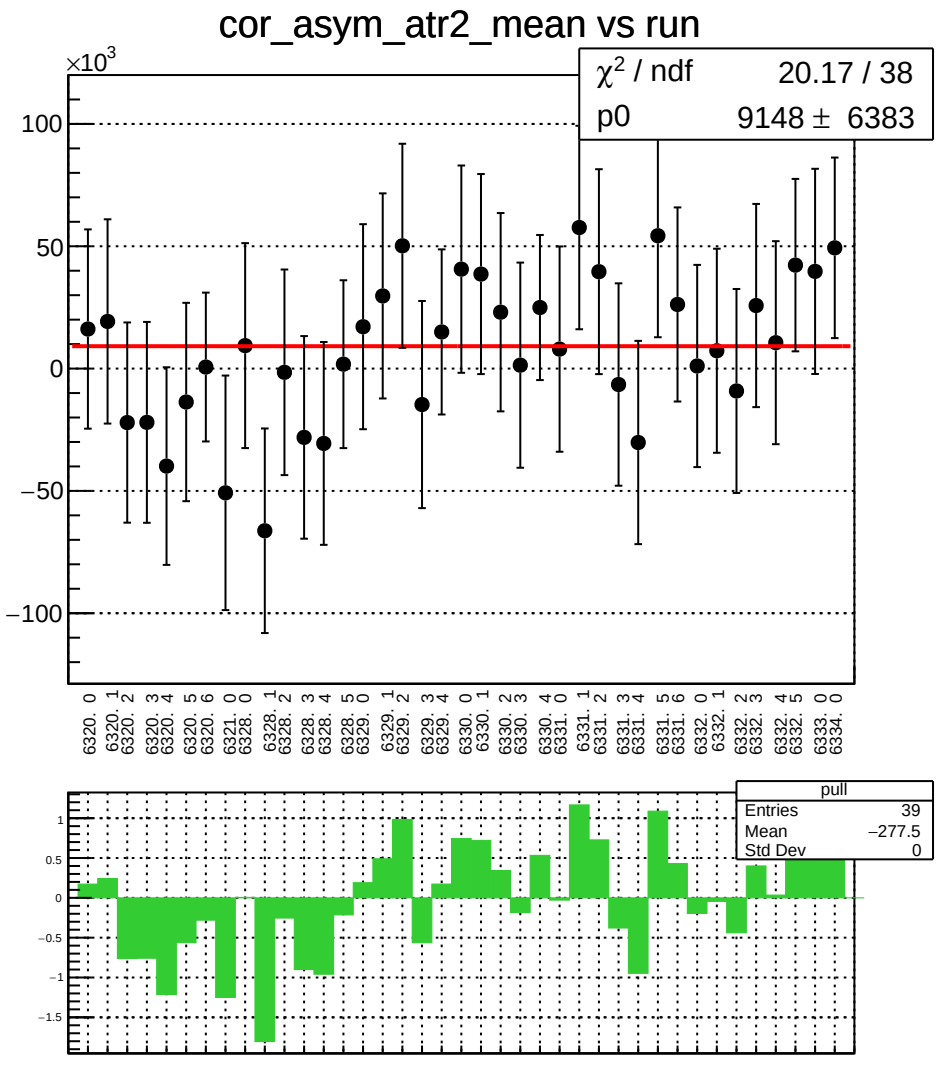

pull1D
Entries 39
Mean −0.01373
Std Dev 0.719
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

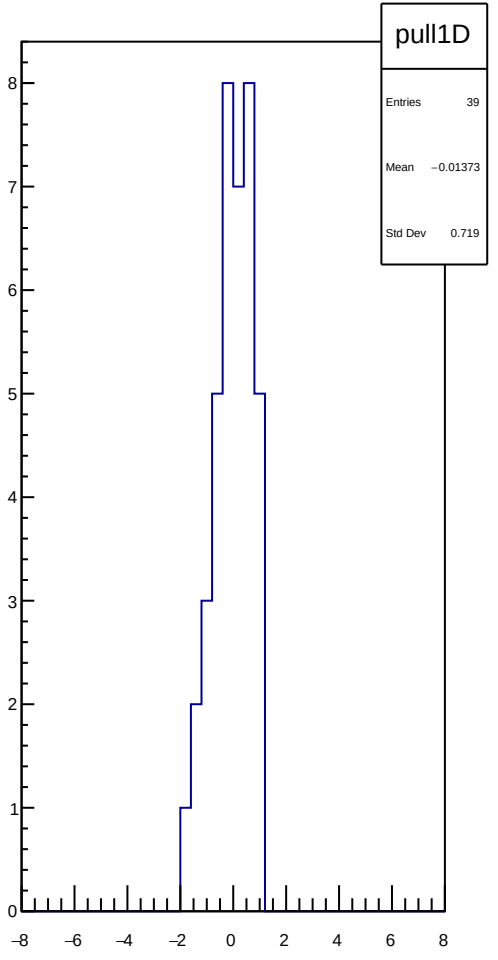

reg_asym_atr2_rms vs run
χ² / ndf 120 / 38
p0 3929 ± 4.513
4050
4000
3950
3900
3850
3800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

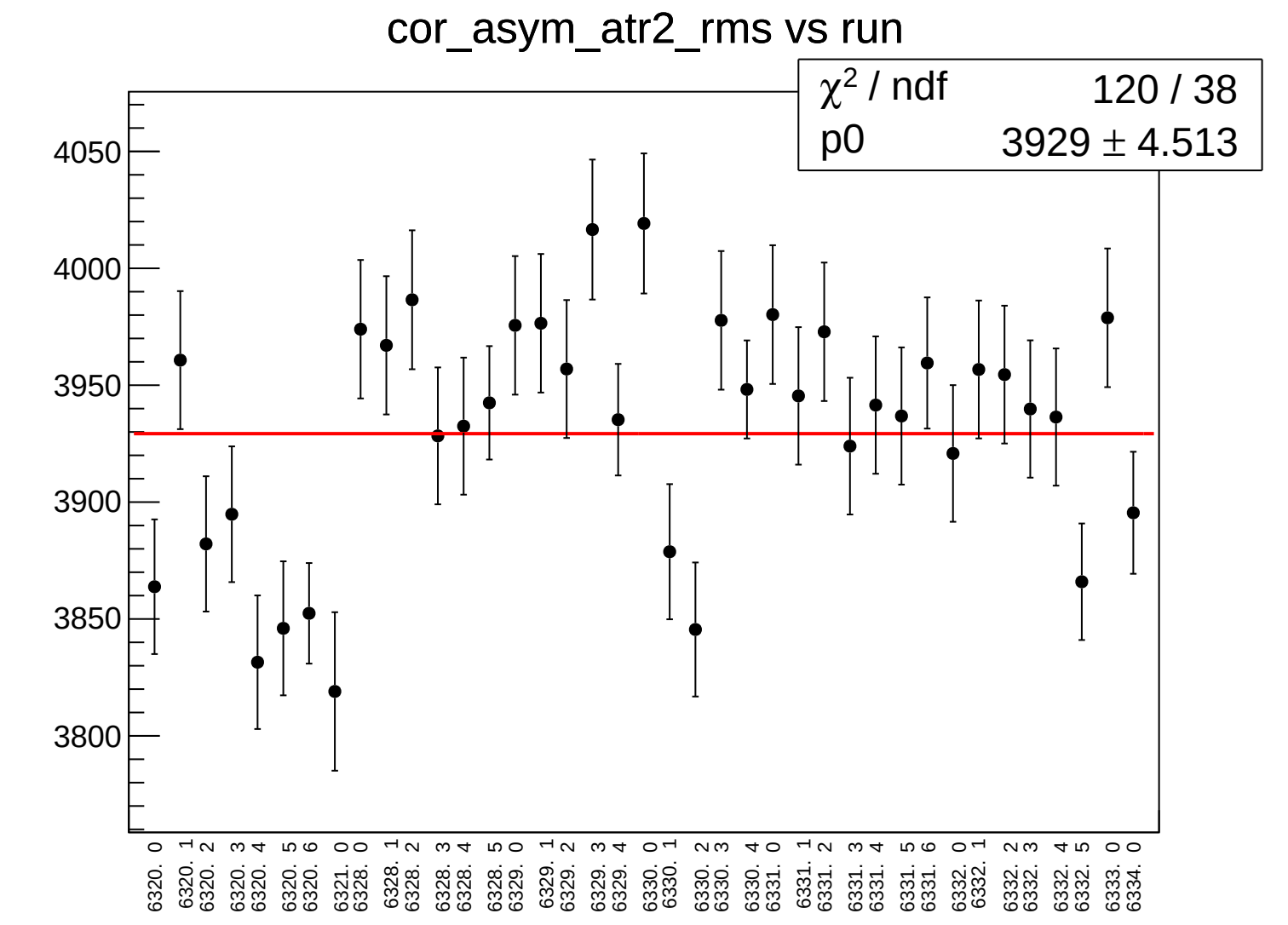

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 24.91 / 38
p0 1.942e+04 ± 2.43e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.212
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

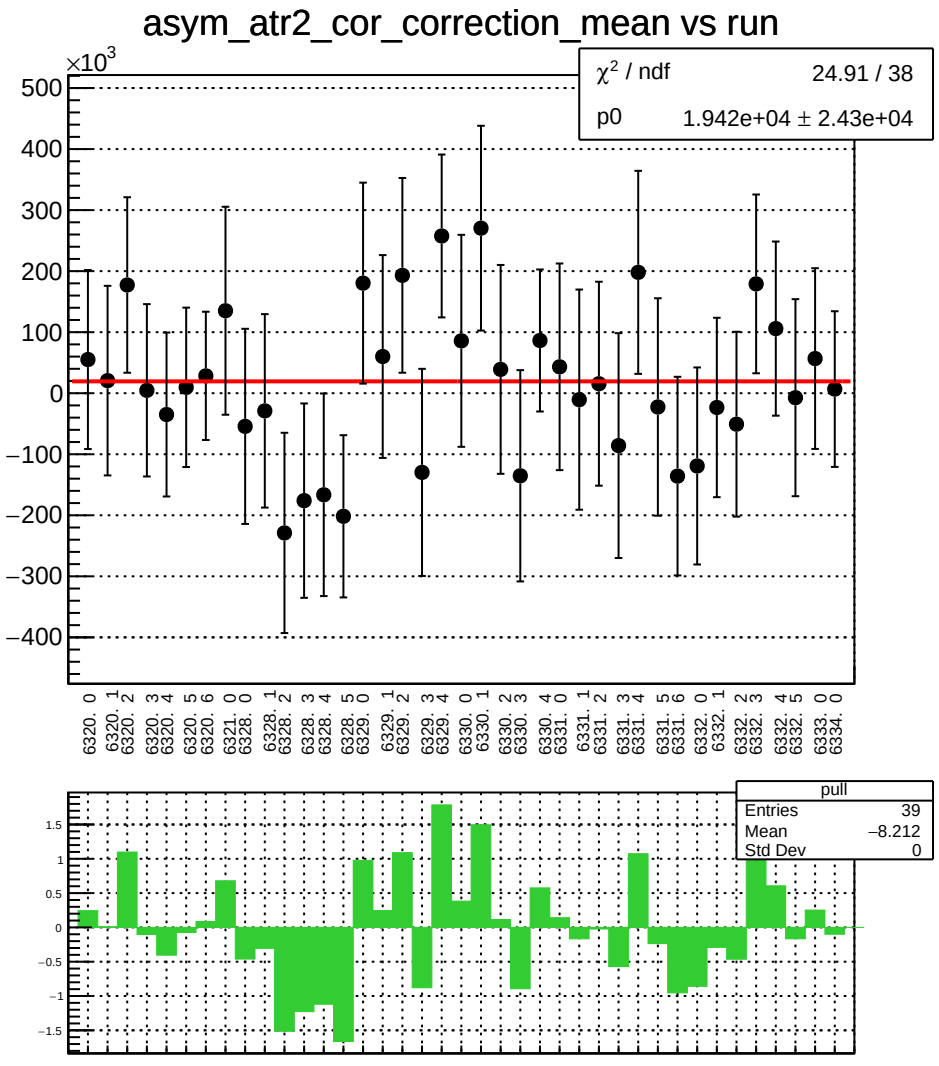

pull1D
Entries 39
Mean −0.01365
Std Dev 0.7991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

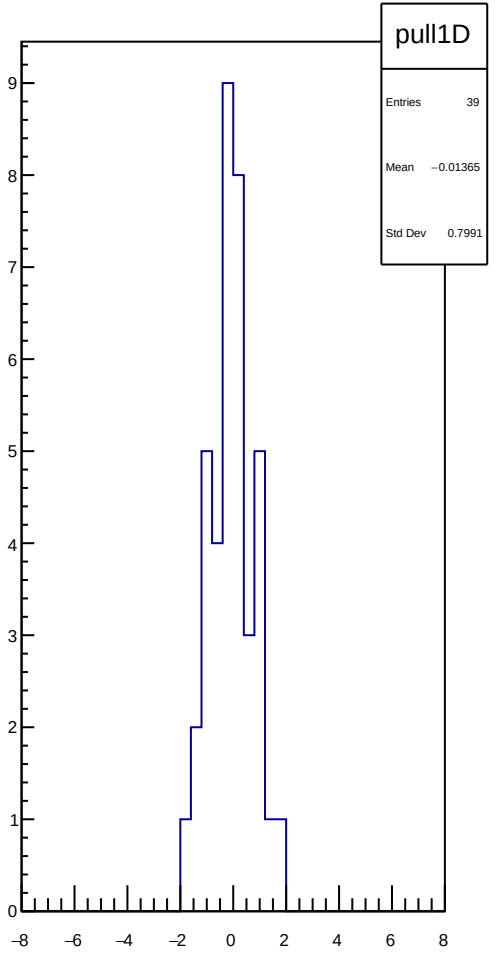

asym_atr2_reg_correction_rms vs run
χ² / ndf 5855 / 38
p0 1.49e+04 ± 17.18
18000
17000
16000
15000
14000
13000
12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

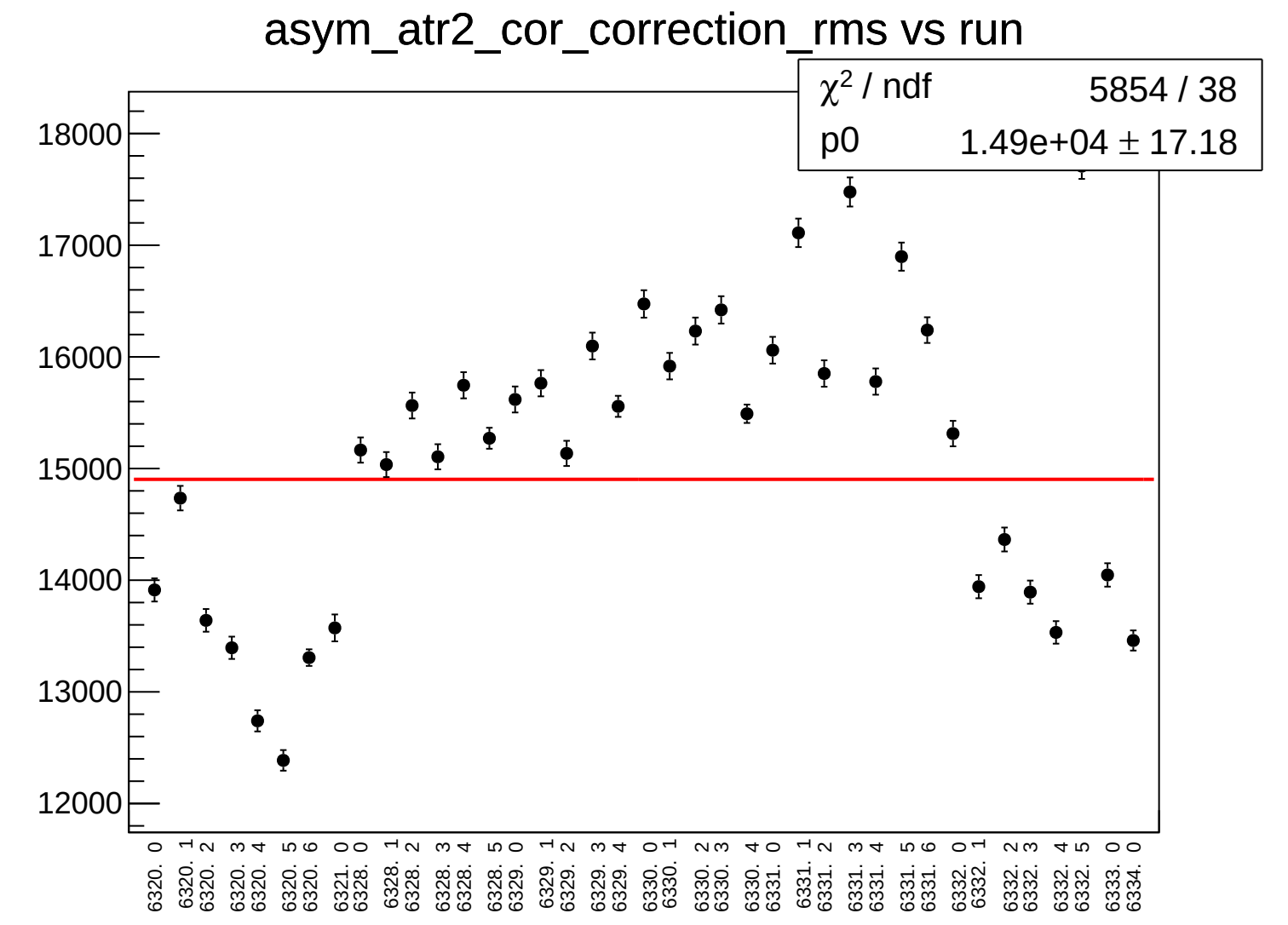

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 20.17 / 38
p0 9148 ± 6383
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −277.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

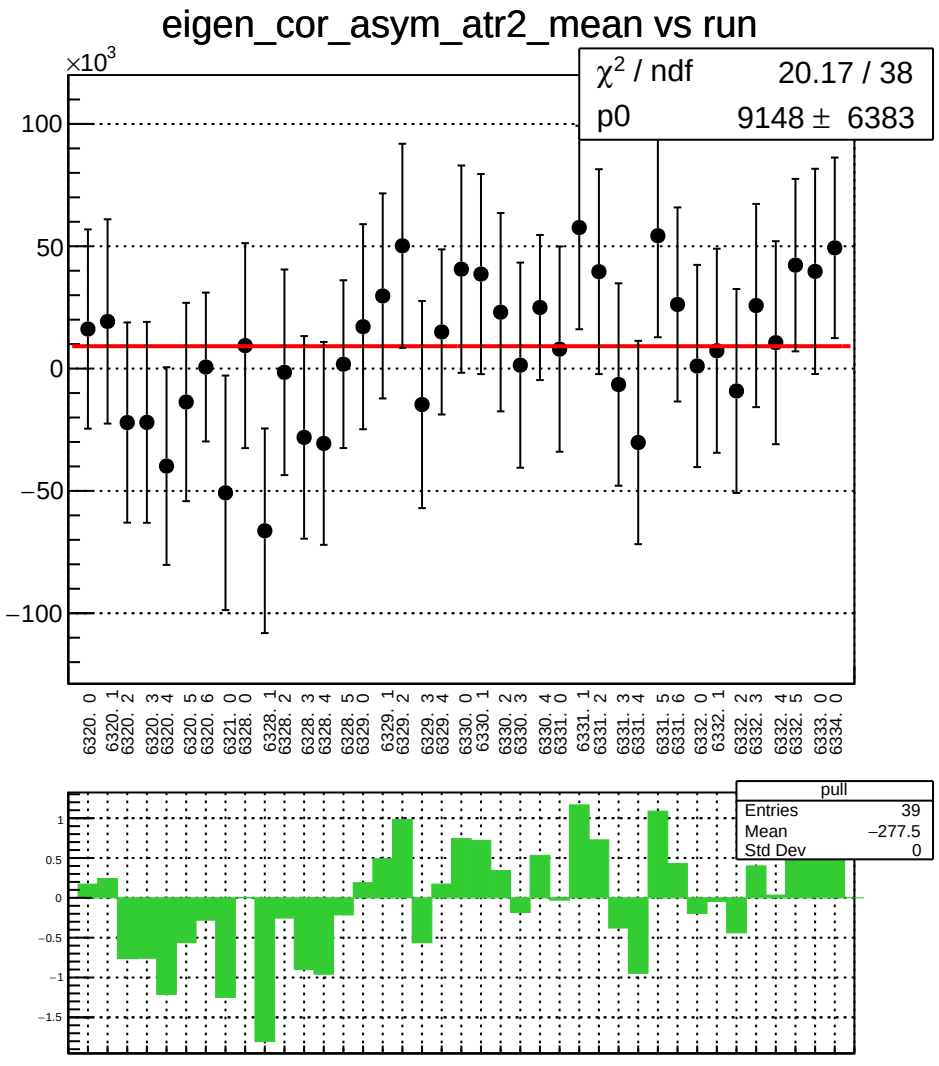

pull1D
Entries 39
Mean −0.01373
Std Dev 0.719
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

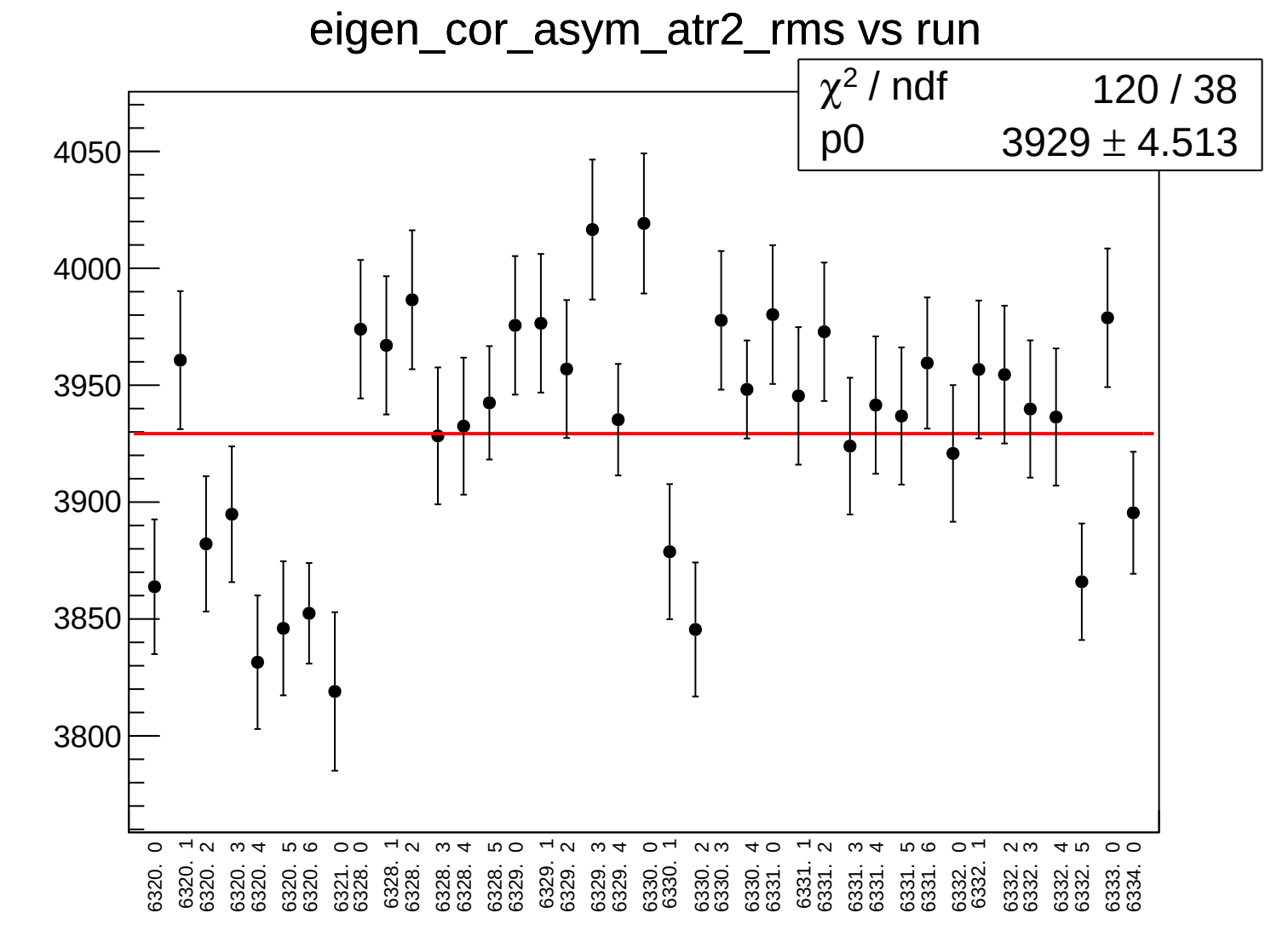

cor_asym_atr2_rms vs run
χ² / ndf 120 / 38
p0 3929 ± 4.513
4050
4000
3950
3900
3850
3800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

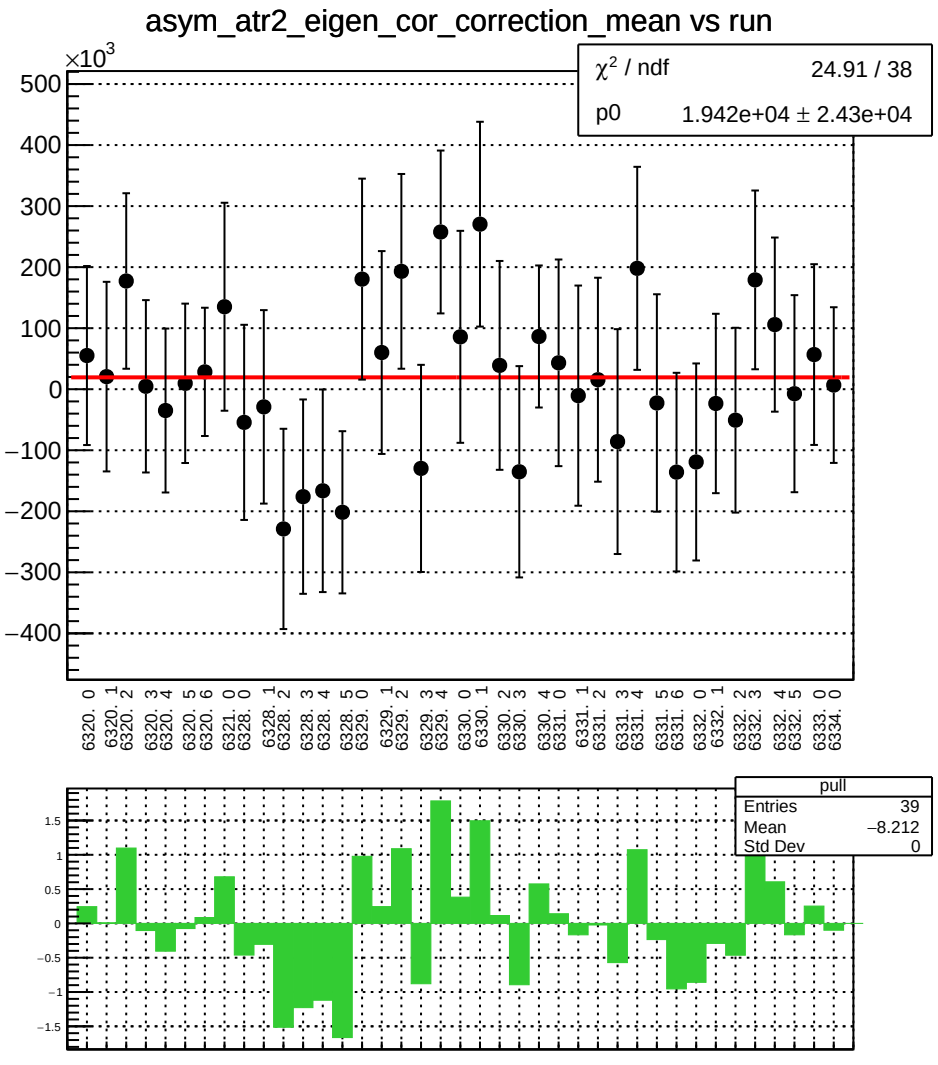

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 24.91 / 38
p0 1.942e+04 ± 2.43e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.212
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

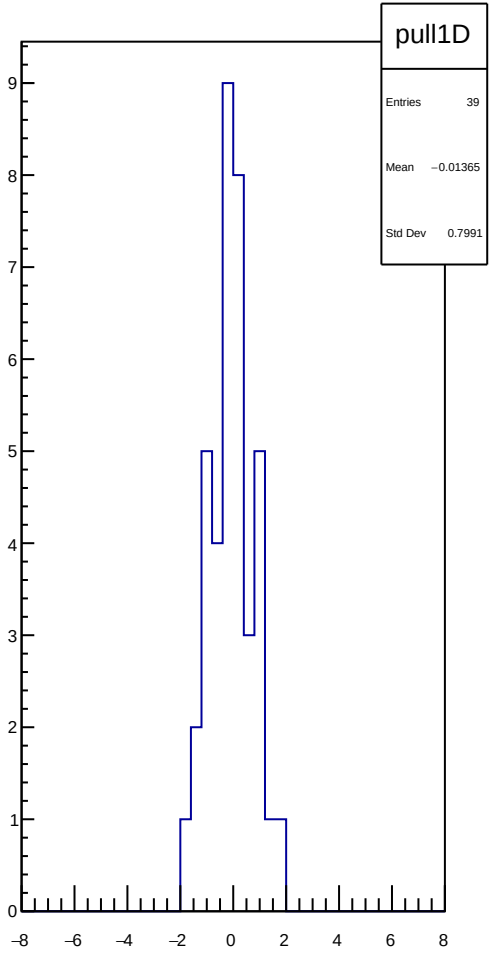

pull1D
Entries 39
Mean −0.01365
Std Dev 0.7991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

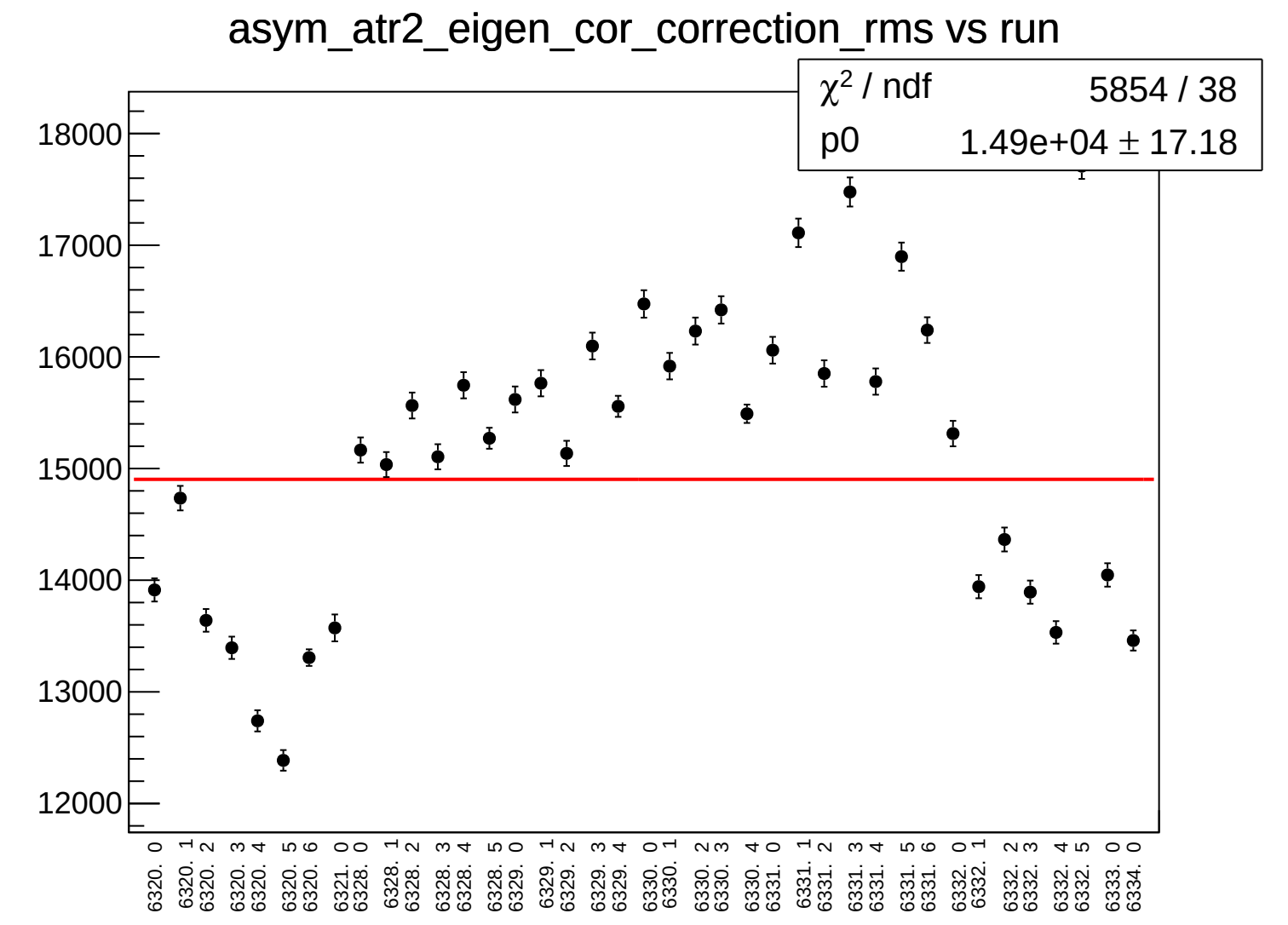

asym_atr2_cor_correction_rms vs run
χ² / ndf 5854 / 38
p0 1.49e+04 ± 17.18
18000
17000
16000
15000
14000
13000
12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

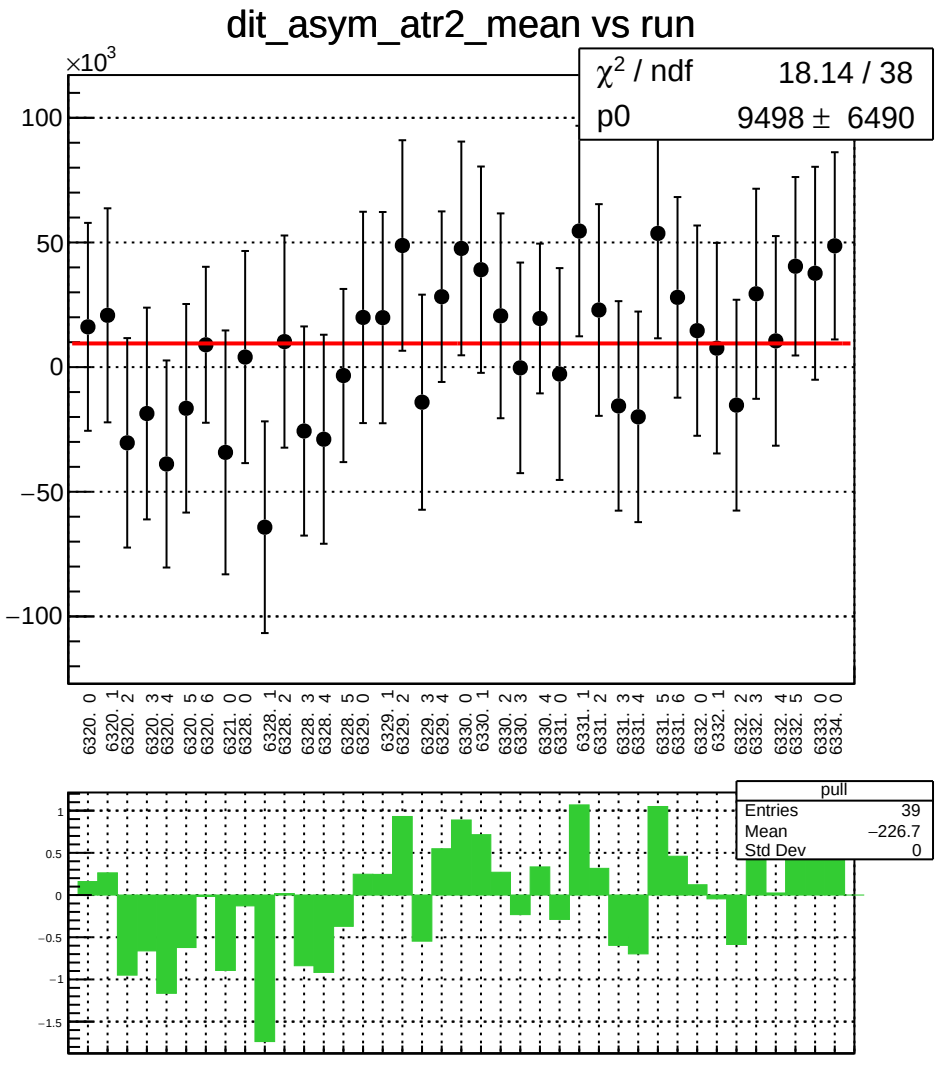

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 20.17 / 38
p0 9148 ± 6383
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −277.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01373
Std Dev 0.719
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

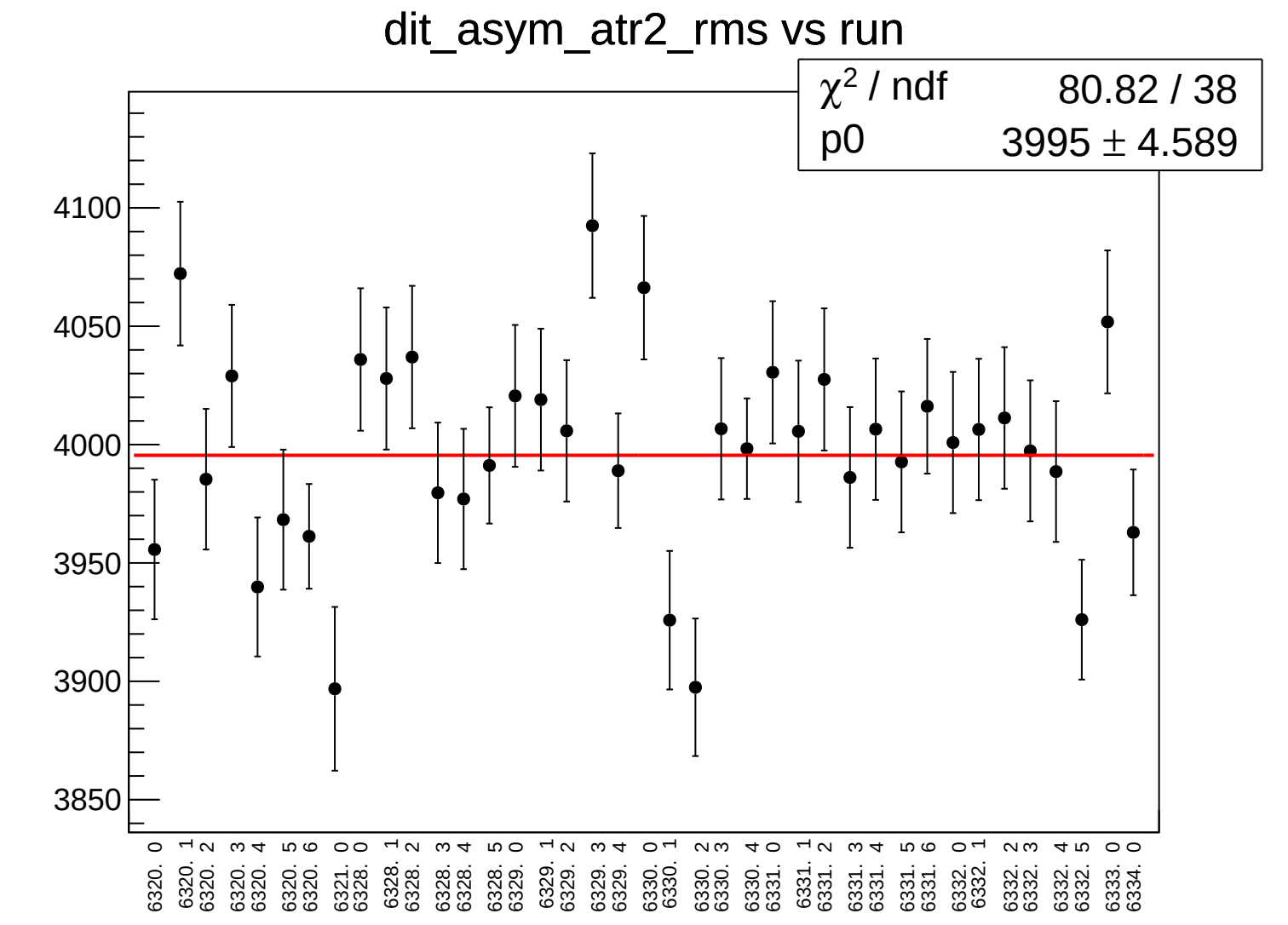

eigen_cor_asym_atr2_rms vs run
χ² / ndf 120 / 38
p0 3929 ± 4.513
4050
4000
3950
3900
3850
3800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

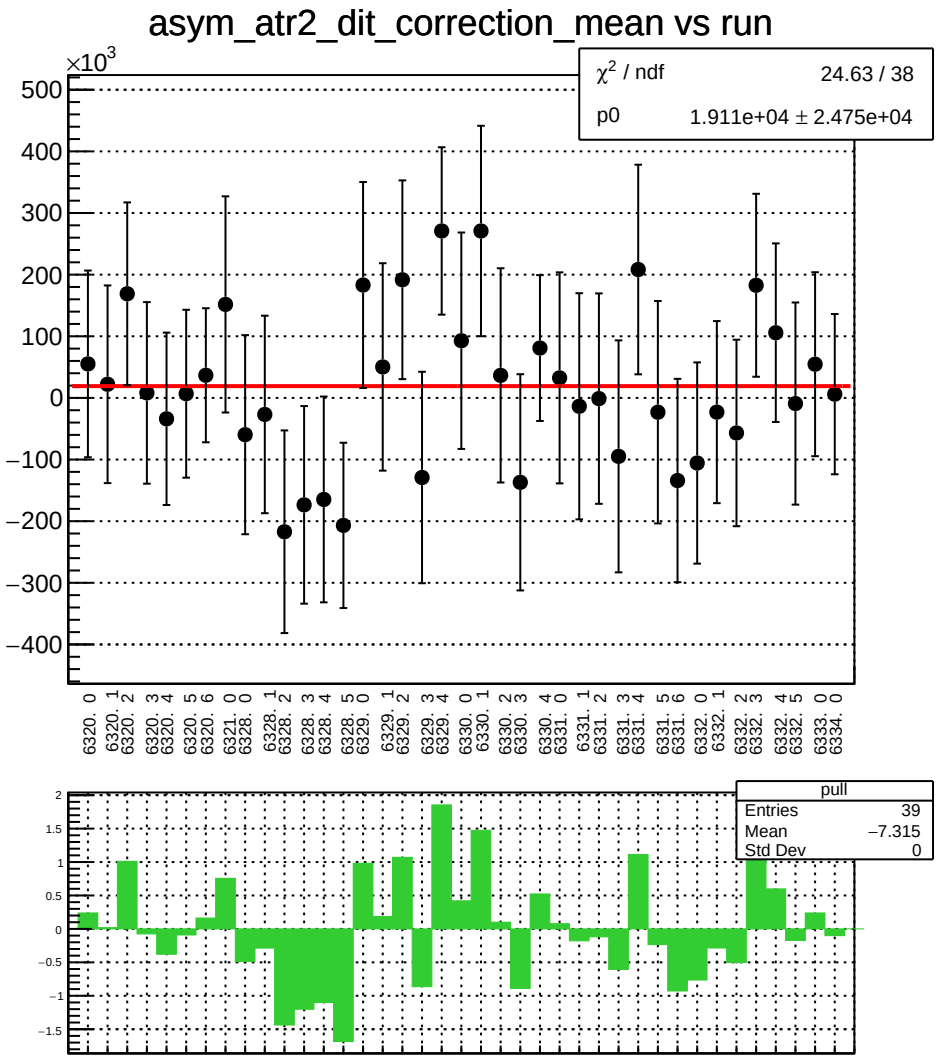

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.91 / 38
p0 1.942e+04 ± 2.43e+04
pull
Entries 39
Mean −8.212
Std Dev 0

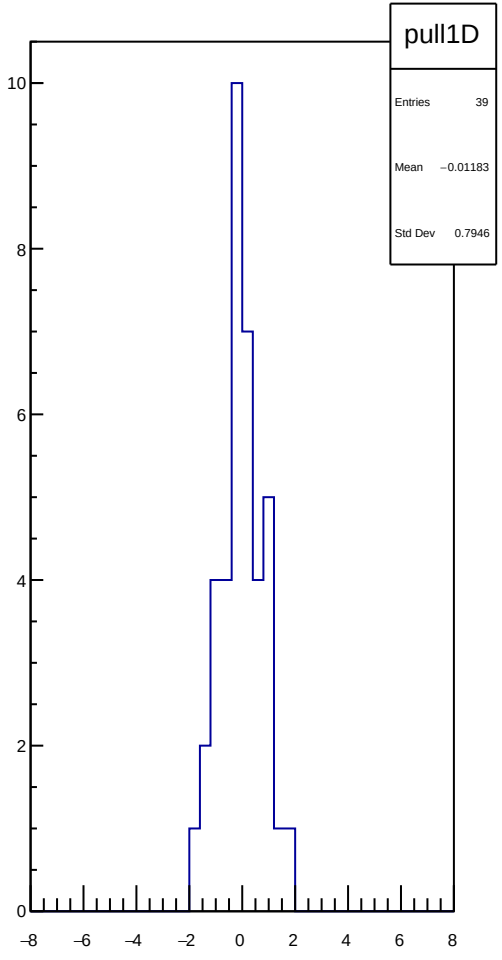

pull1D
Entries 39
Mean −0.01365
Std Dev 0.7991

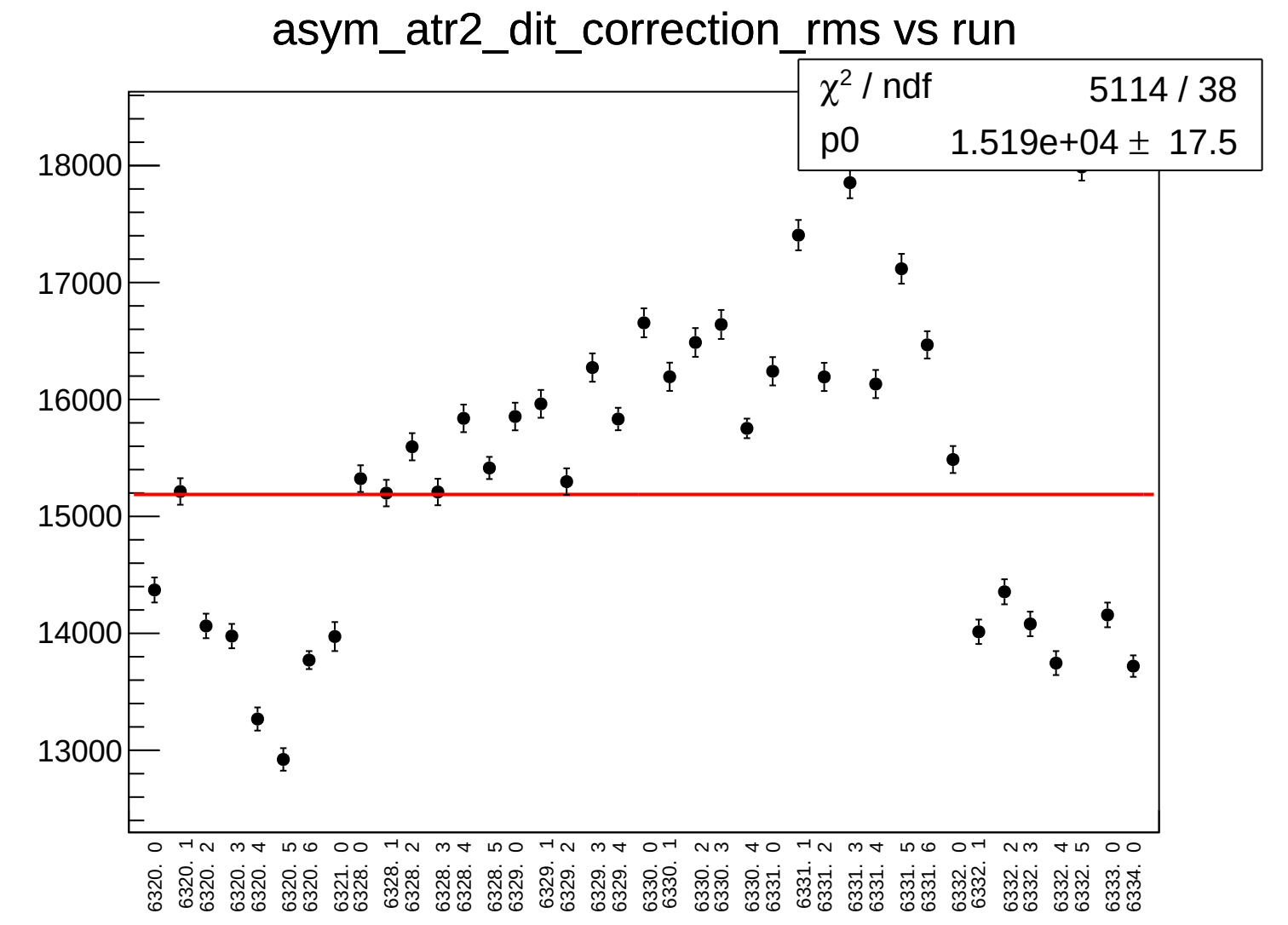

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 5854 / 38
p0 1.49e+04 ± 17.18
18000
17000
16000
15000
14000
13000
12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

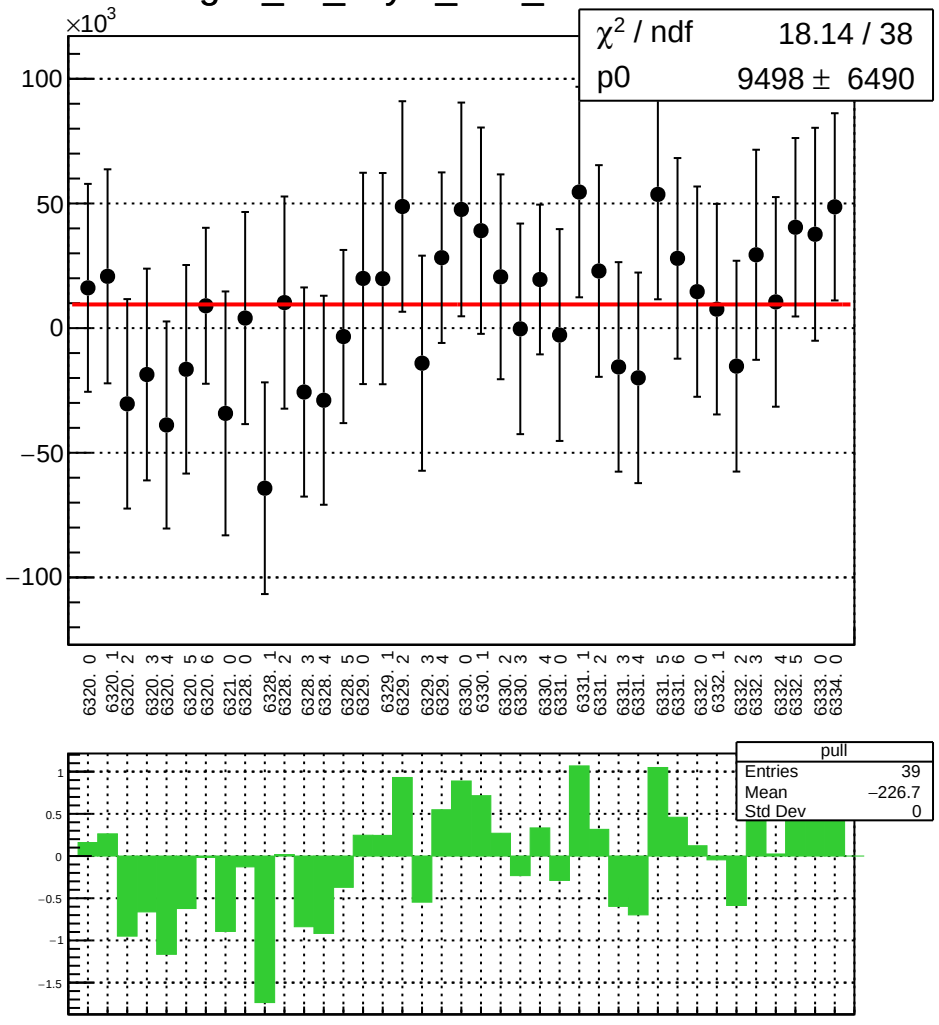

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 18.14 / 38
p0 9498 ± 6490
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −226.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01517
Std Dev 0.6818
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

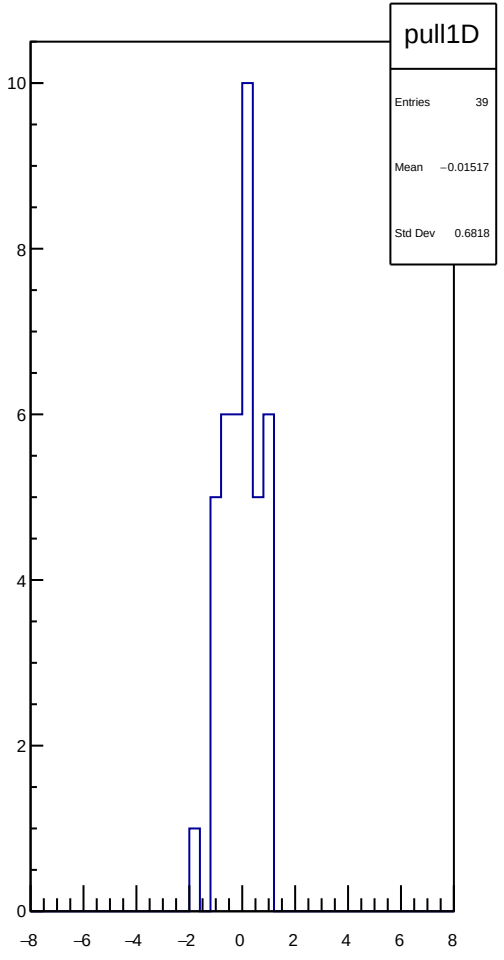

dit_asym_atr2_rms vs run
χ² / ndf 80.82 / 38
p0 3995 ± 4.589
4100
4050
4000
3950
3900
3850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

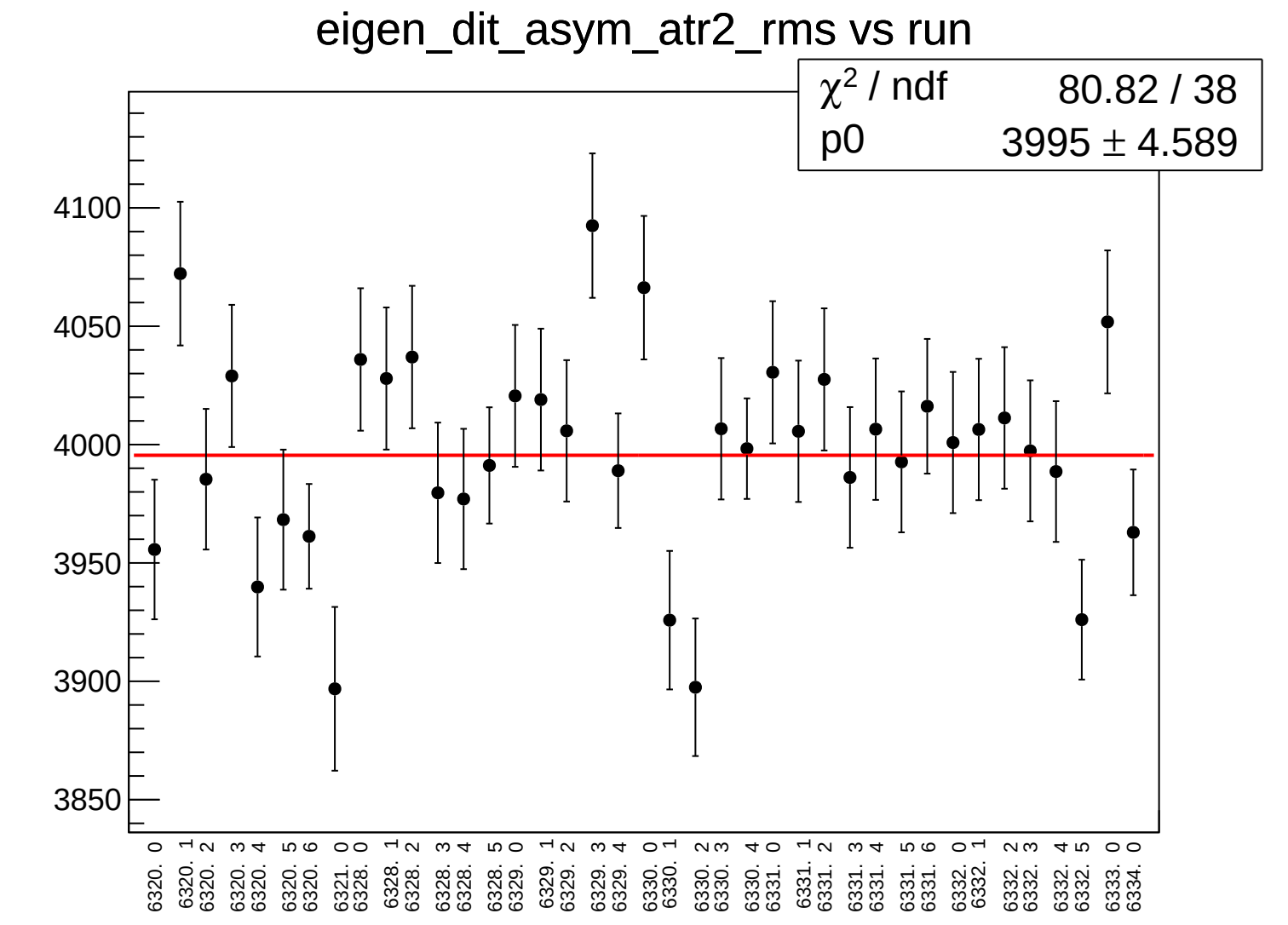

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 1.911e+04 ± 2.475e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.315
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

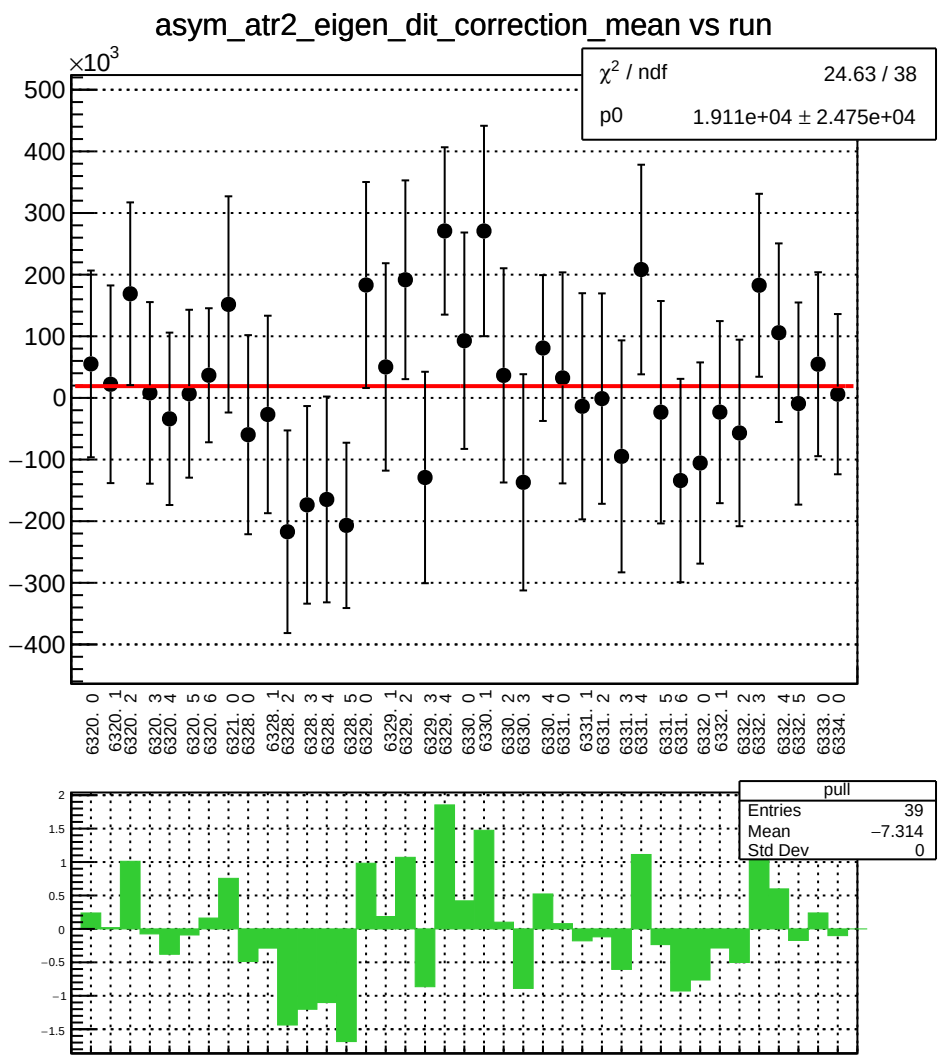

pull1D
Entries 39
Mean −0.01183
Std Dev 0.7946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

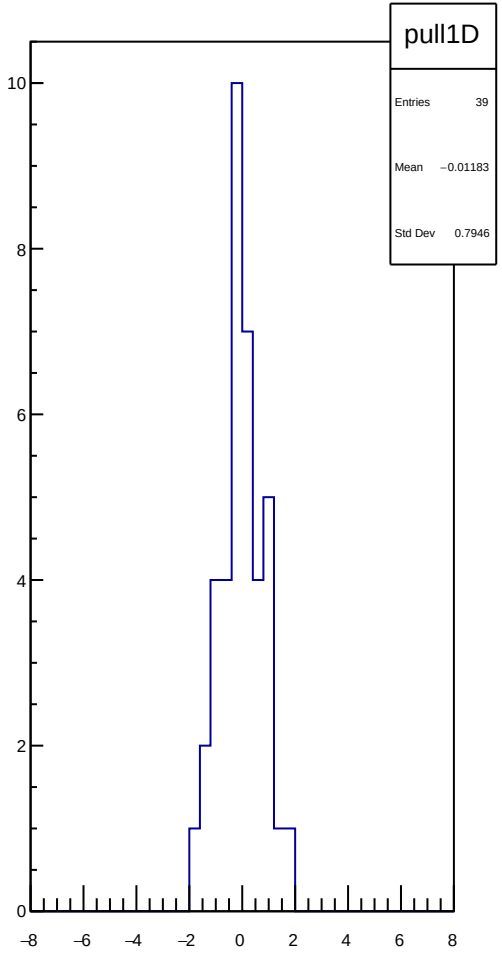

asym_atr2_dit_correction_rms vs run
χ² / ndf 5114 / 38
p0 1.519e+04 ± 17.5
18000
17000
16000
15000
14000
13000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

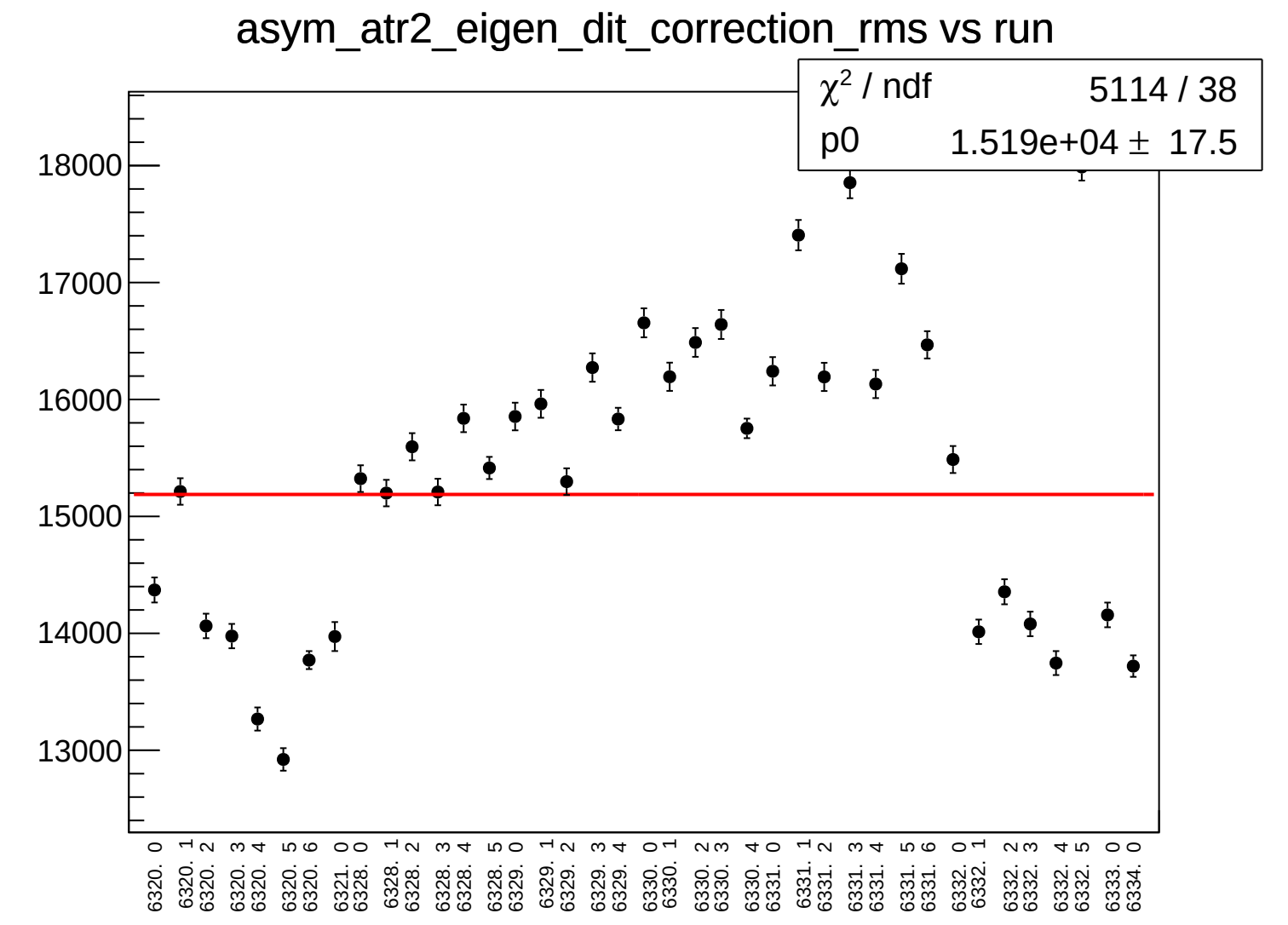

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 18.14 / 38
p0 9498 ± 6490
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −226.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

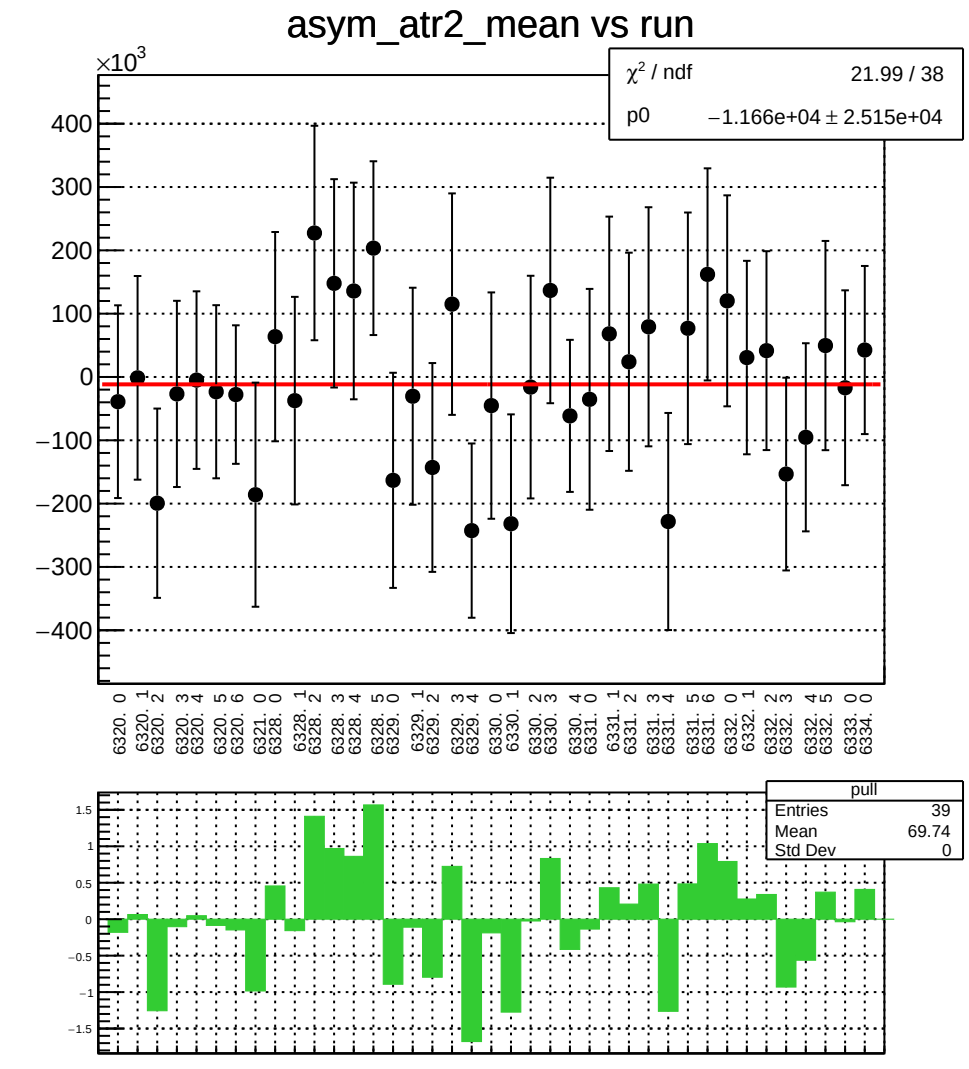

pull1D
Entries 39
Mean −0.01517
Std Dev 0.6818
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

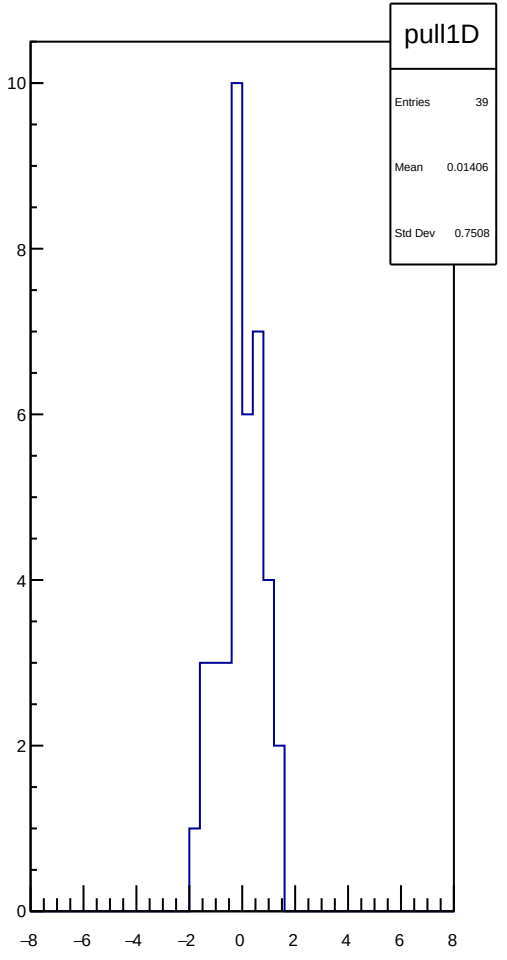

eigen_dit_asym_atr2_rms vs run
χ² / ndf 80.82 / 38
p0 3995 ± 4.589
4100
4050
4000
3950
3900
3850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

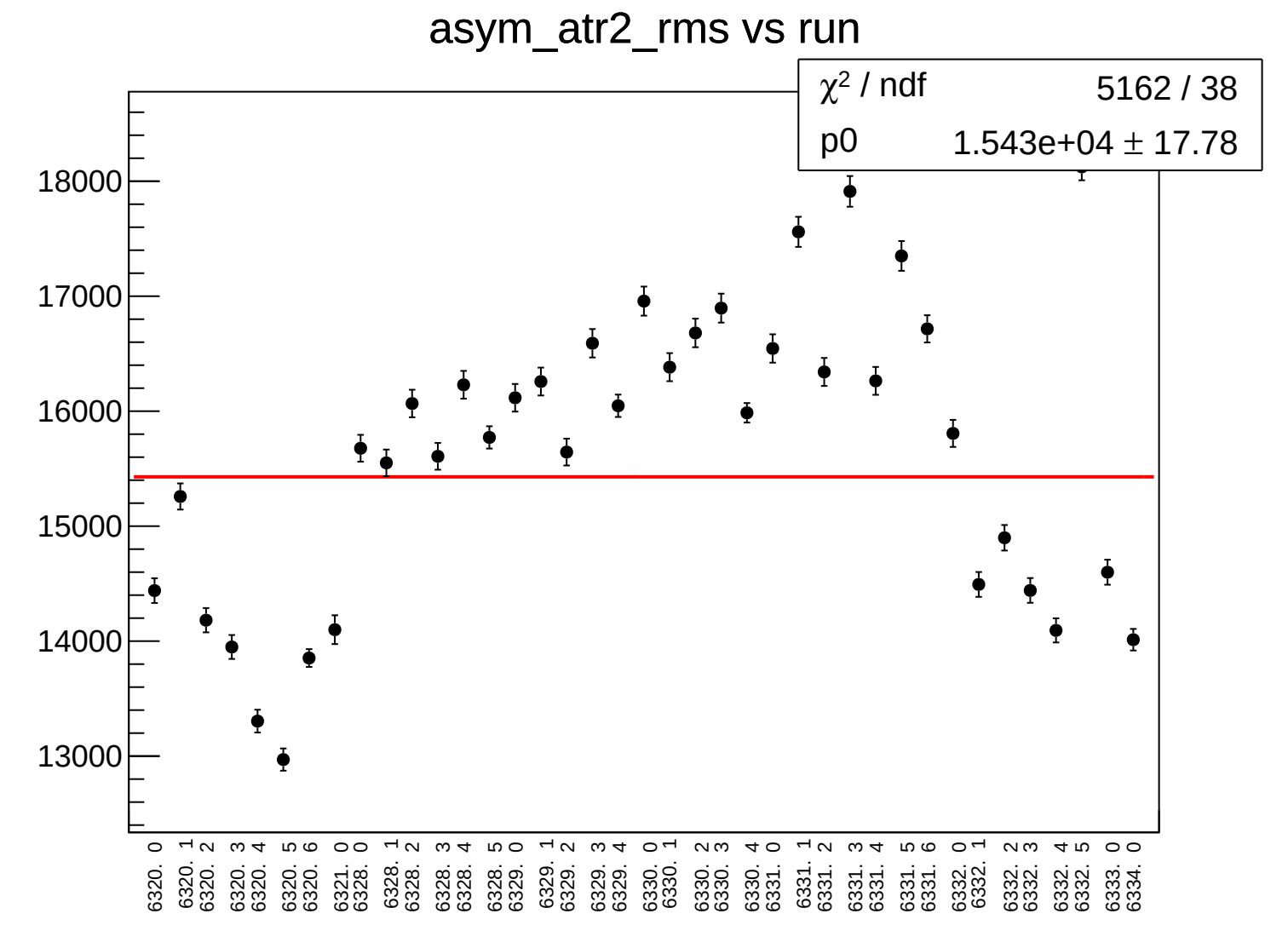

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 1.911e+04 ± 2.475e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

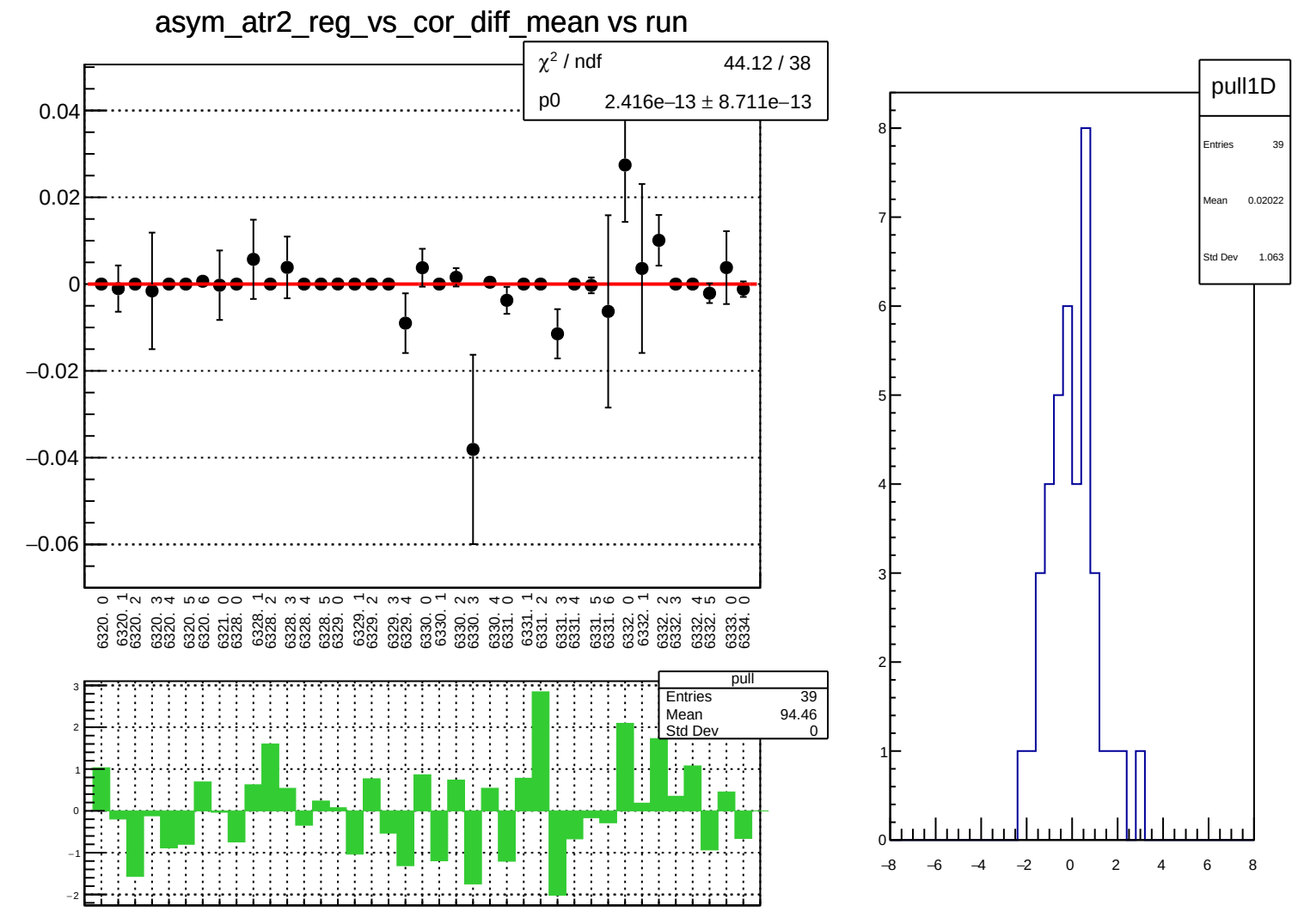

pull1D
Entries 39
Mean −0.01183
Std Dev 0.7946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

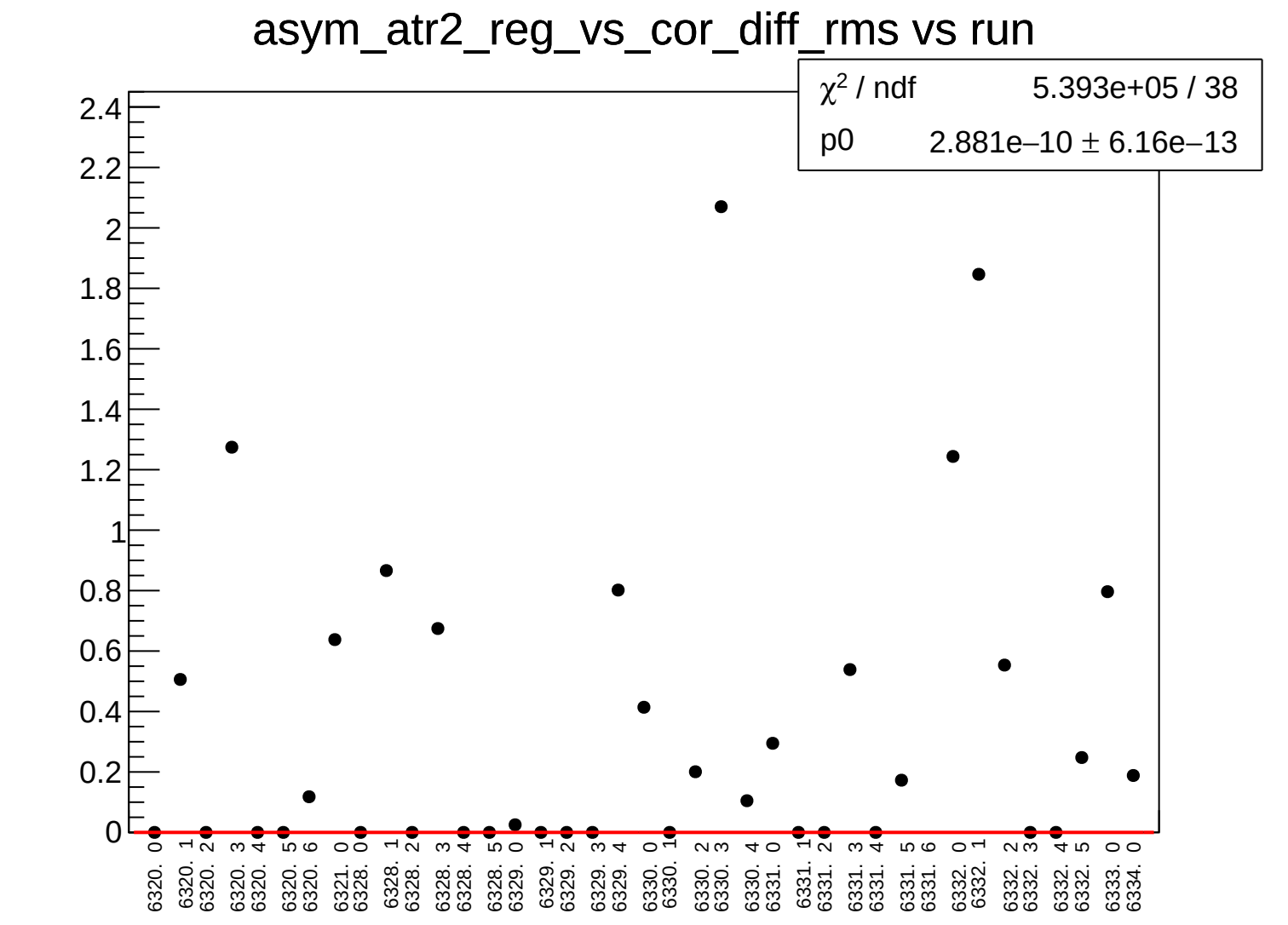

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5114 / 38
p0 1.519e+04 ± 17.5
18000
17000
16000
15000
14000
13000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

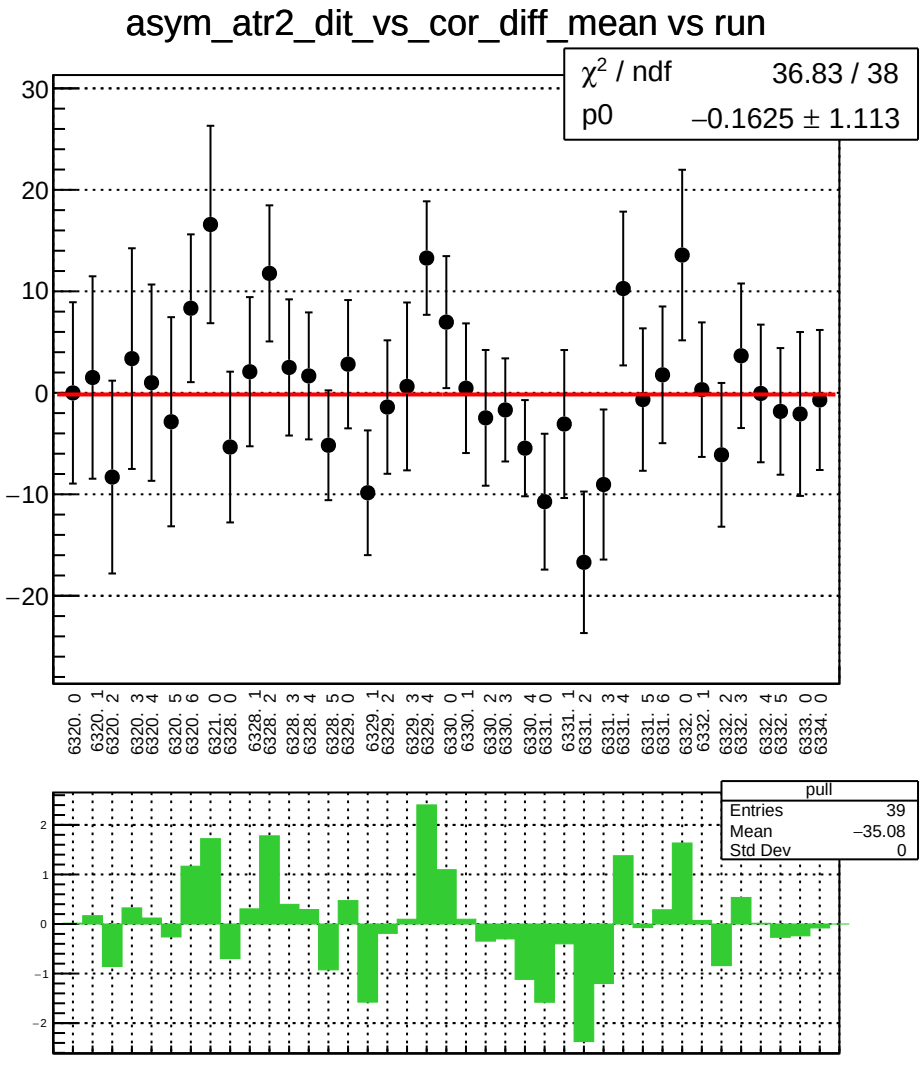

asym_atr2_mean vs run
×10^3
χ² / ndf 21.99 / 38
p0 −1.166e+04 ± 2.515e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 69.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

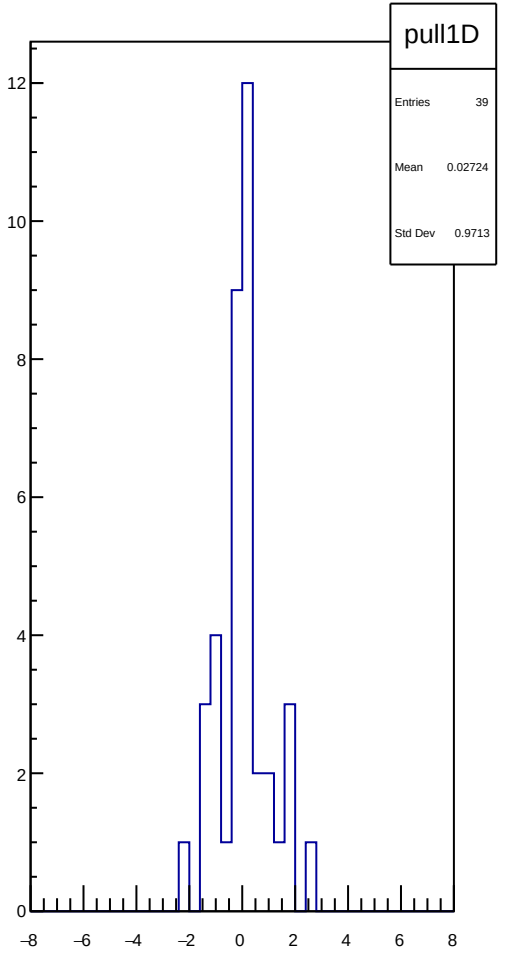

pull1D
Entries 39
Mean 0.01406
Std Dev 0.7508
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

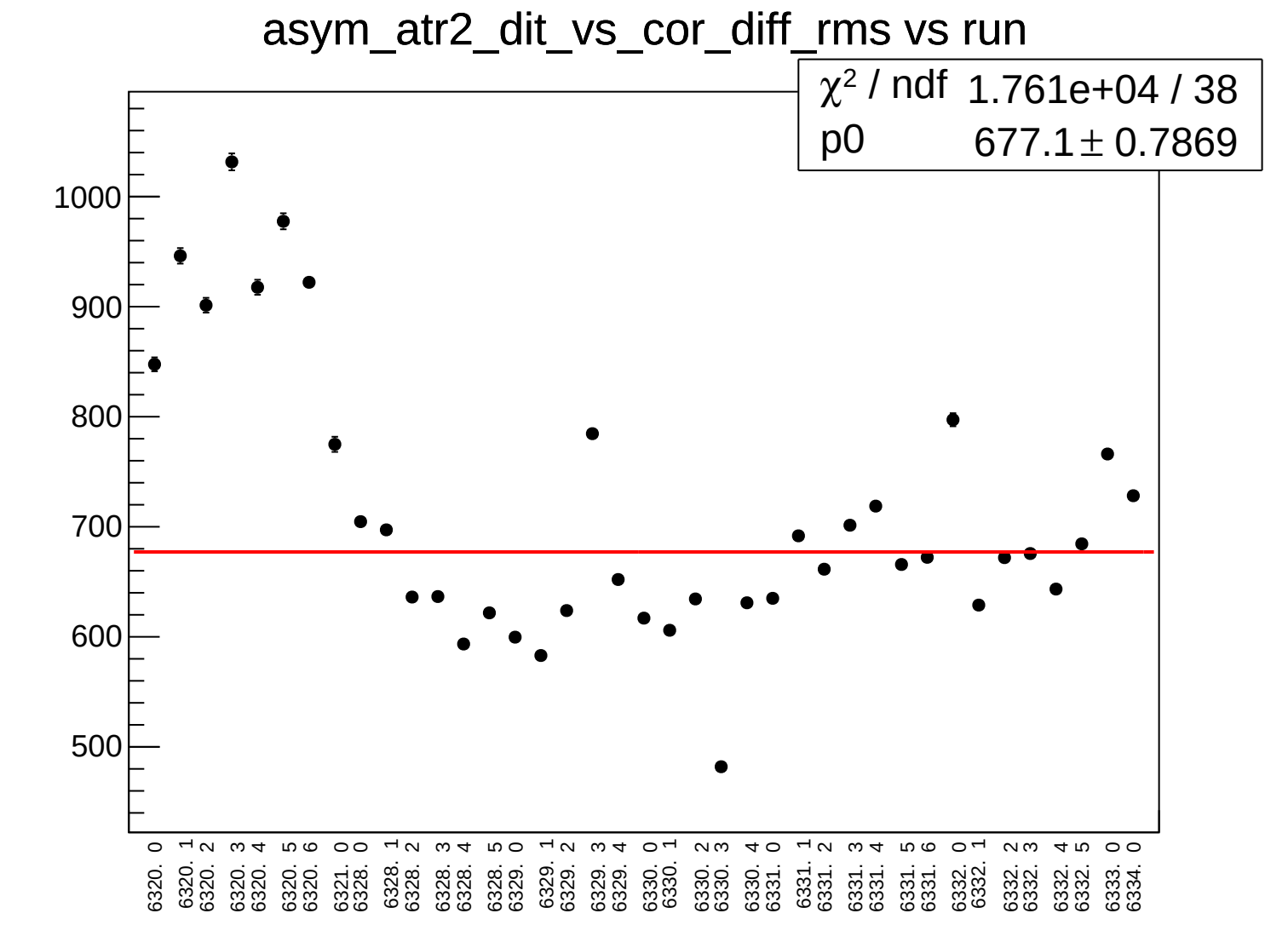

asym_atr2_rms vs run
χ² / ndf 5162 / 38
p0 1.543e+04 ± 17.78
18000
17000
16000
15000
14000
13000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

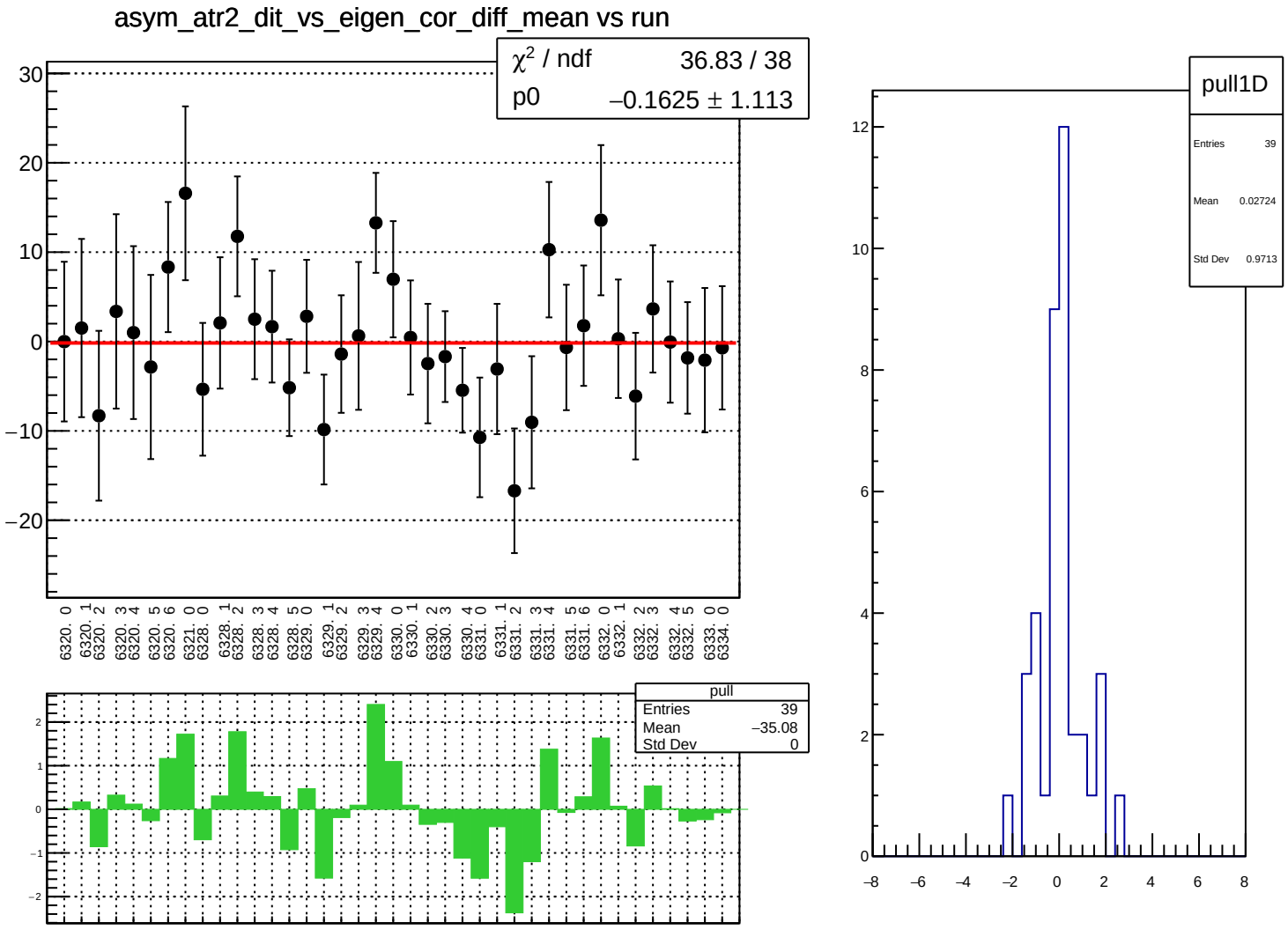

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 44.12 / 38
p0 2.416e−13 ± 8.711e−13
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 94.46
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02022
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

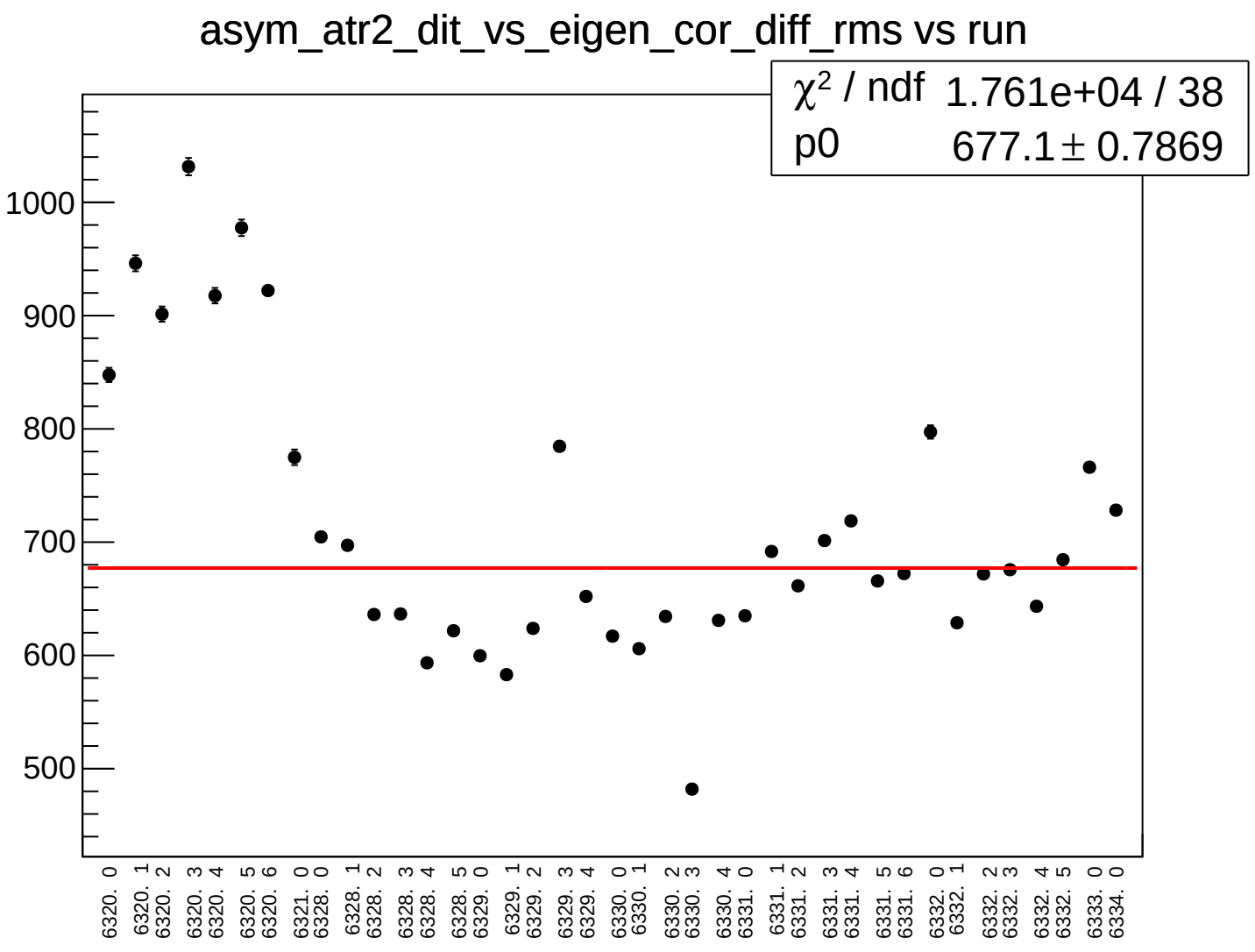

asym_atr2_reg_vs_cor_diff_rms vs run
χ^2 / ndf 5.393e+05 / 38
p0 2.881e−10 ± 6.16e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

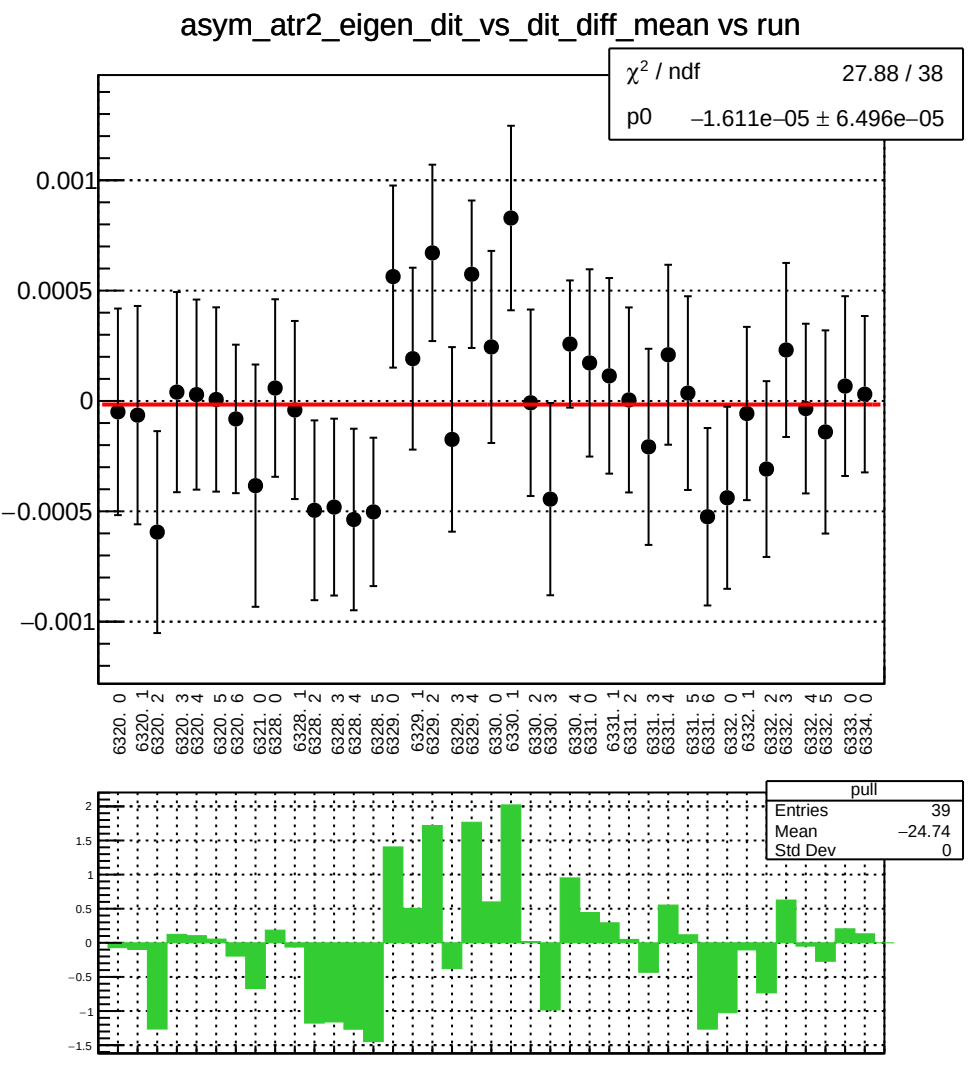

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 36.83 / 38
p0 −0.1625 ± 1.113
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.08
Std Dev 0
2
1
0
−1
−2

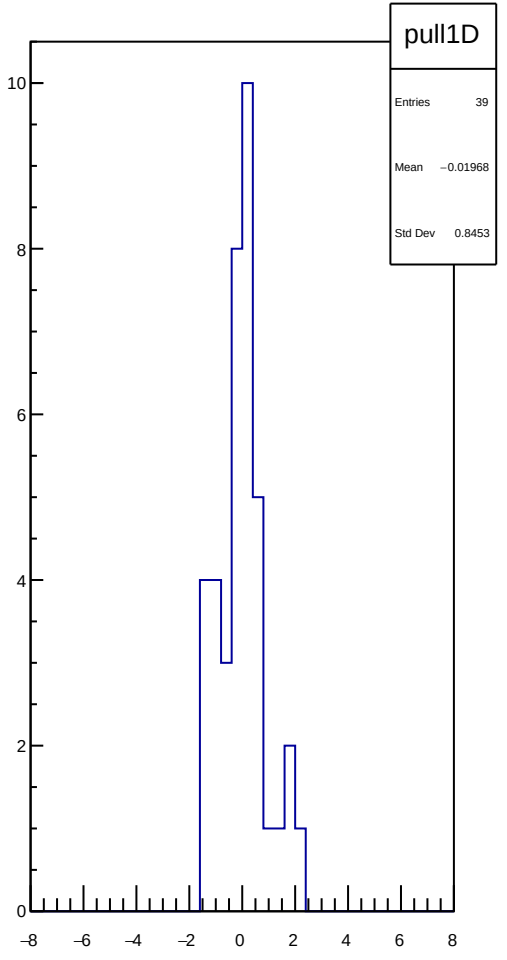

pull1D
Entries 39
Mean 0.02724
Std Dev 0.9713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

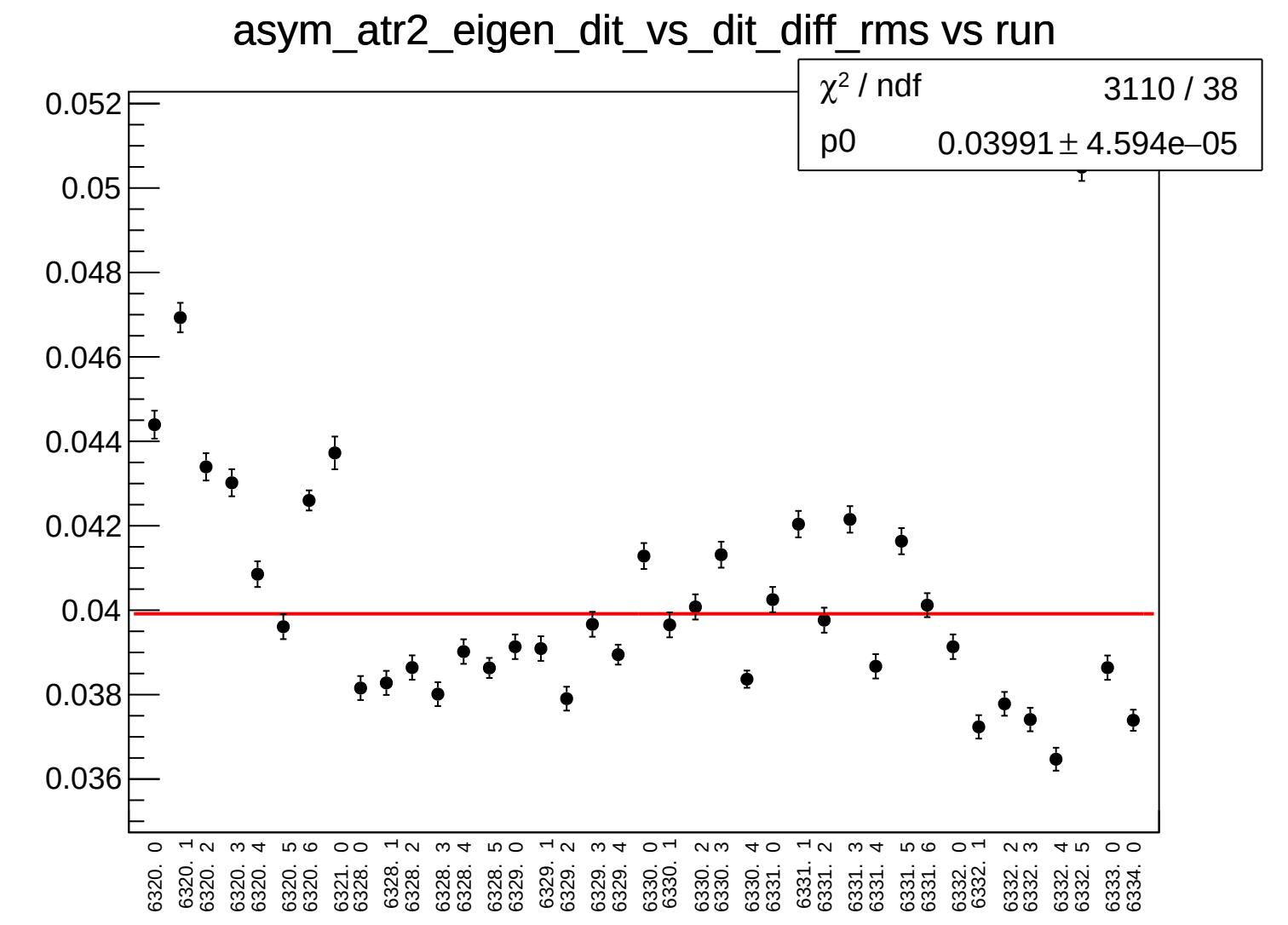

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.761e+04 / 38
p0 677.1 ± 0.7869
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

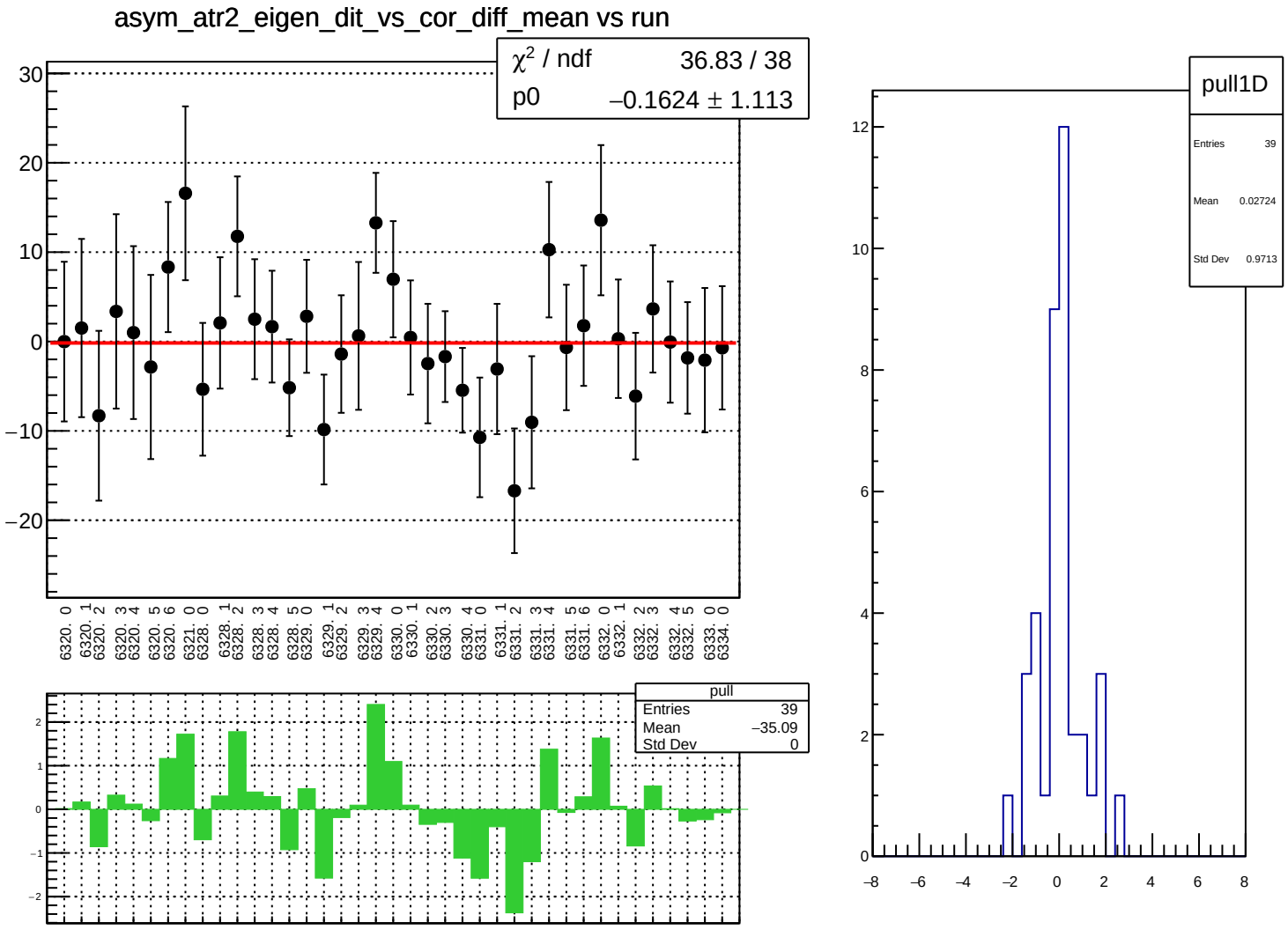

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.83 / 38
p0 −0.1625 ± 1.113
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02724
Std Dev 0.9713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

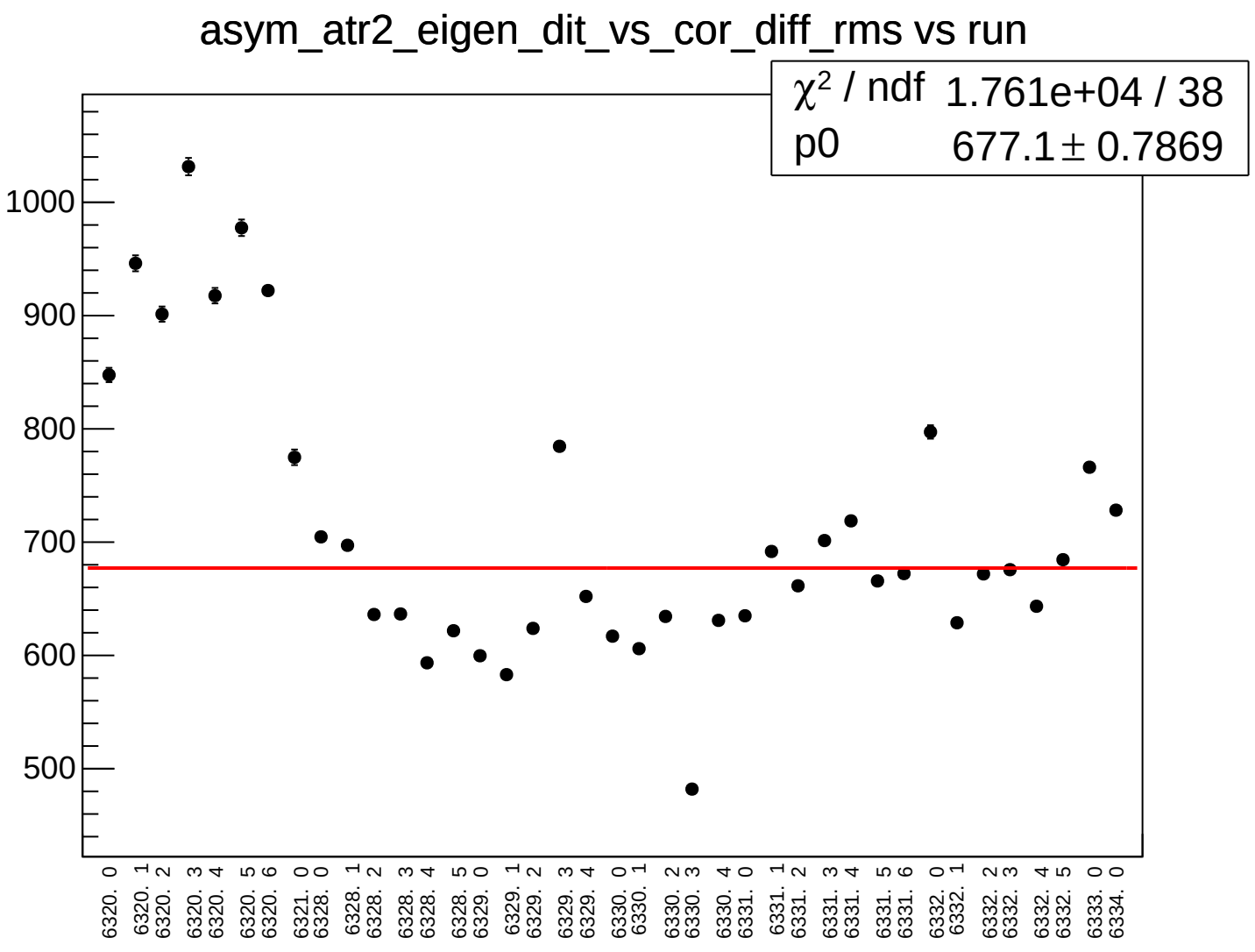

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.761e+04 / 38
p0 677.1 ± 0.7869
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

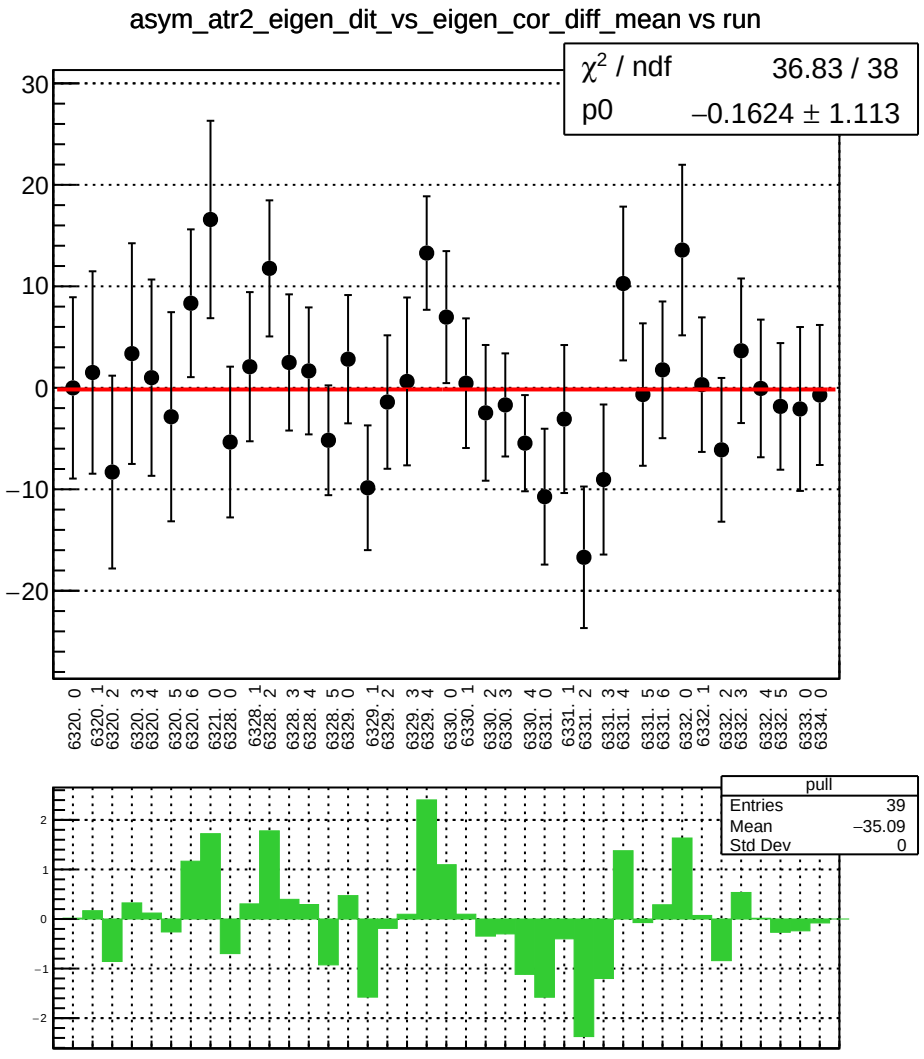

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 27.88 / 38
p0 −1.611e−05 ± 6.496e−05
0.001
0.0005
0
−0.0005
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

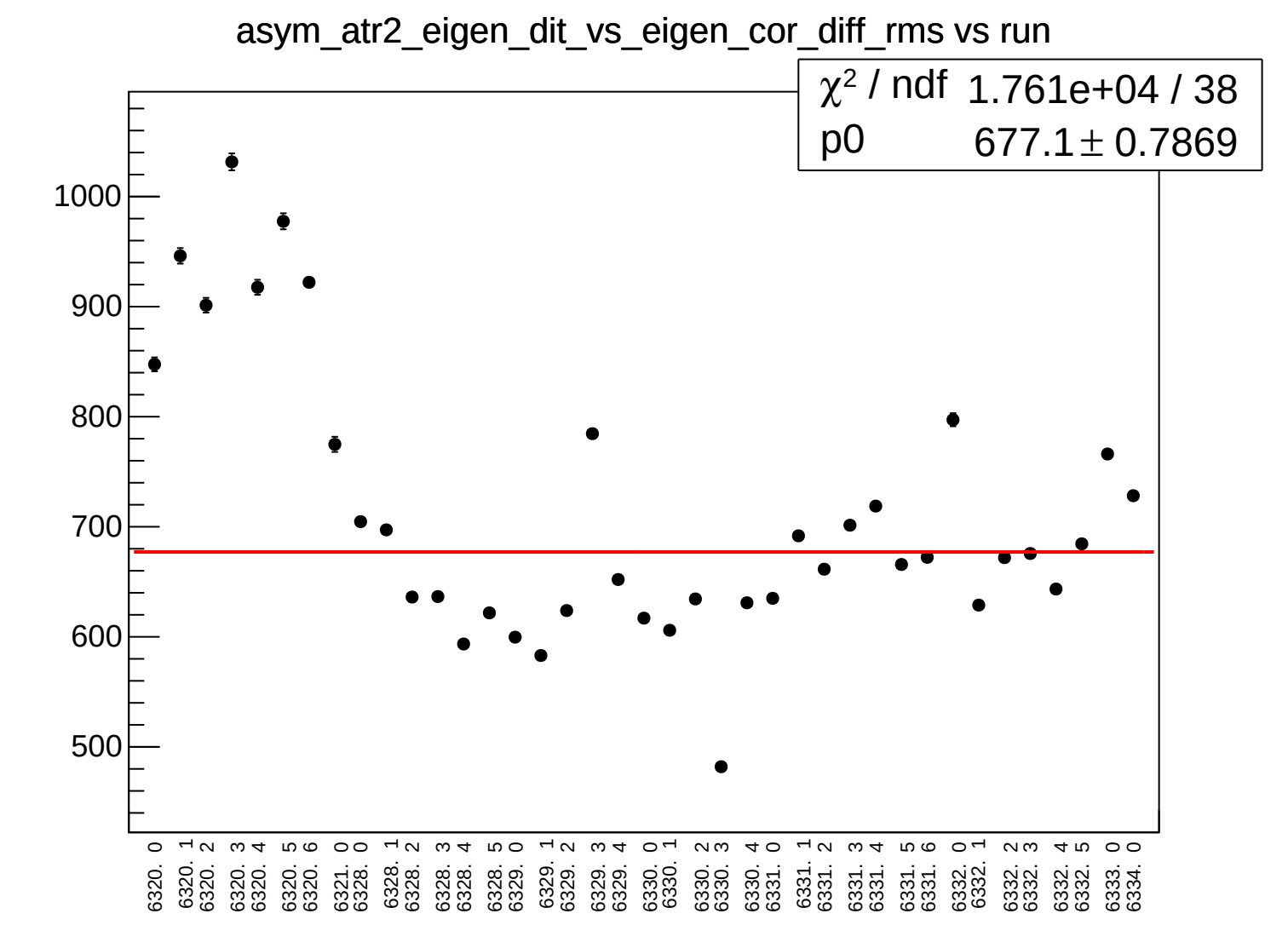

pull1D
Entries 39
Mean −0.01968
Std Dev 0.8453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

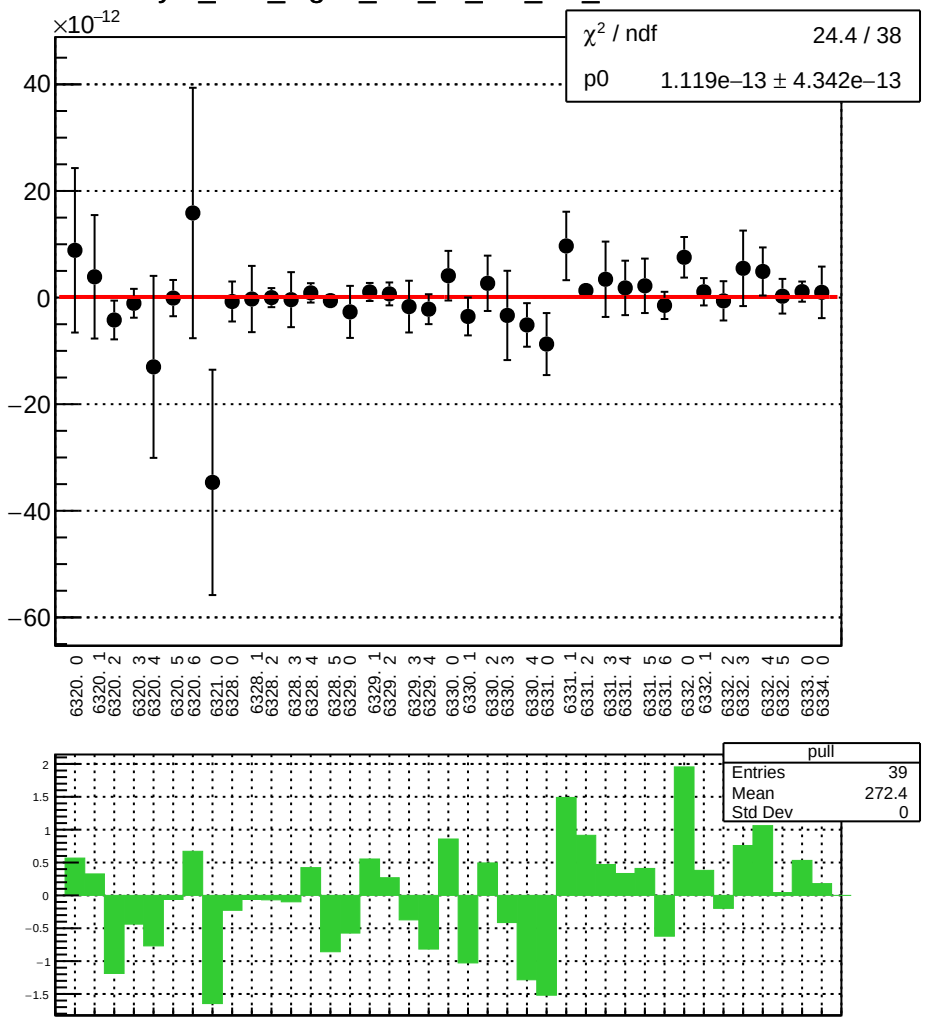

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3110 / 38
p0 0.03991 ± 4.594e−05
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

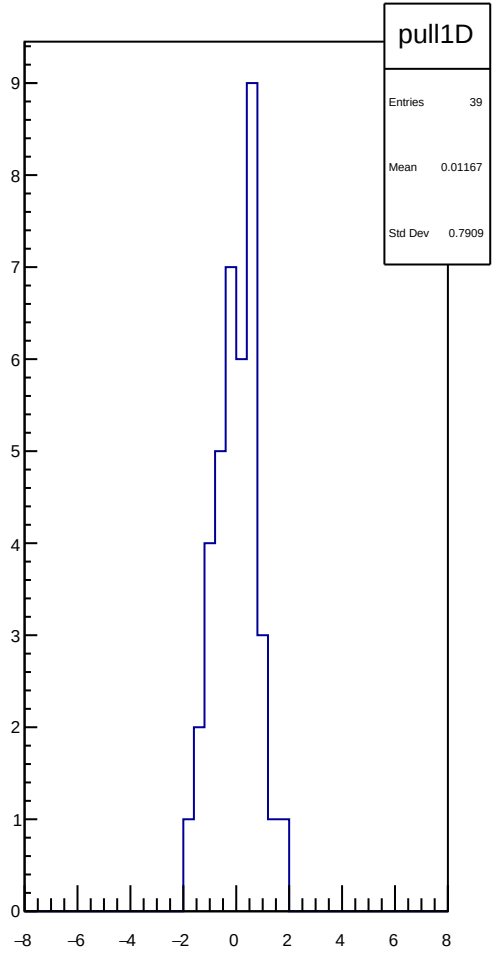

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.83 / 38
p0 −0.1624 ± 1.113
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02724
Std Dev 0.9713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

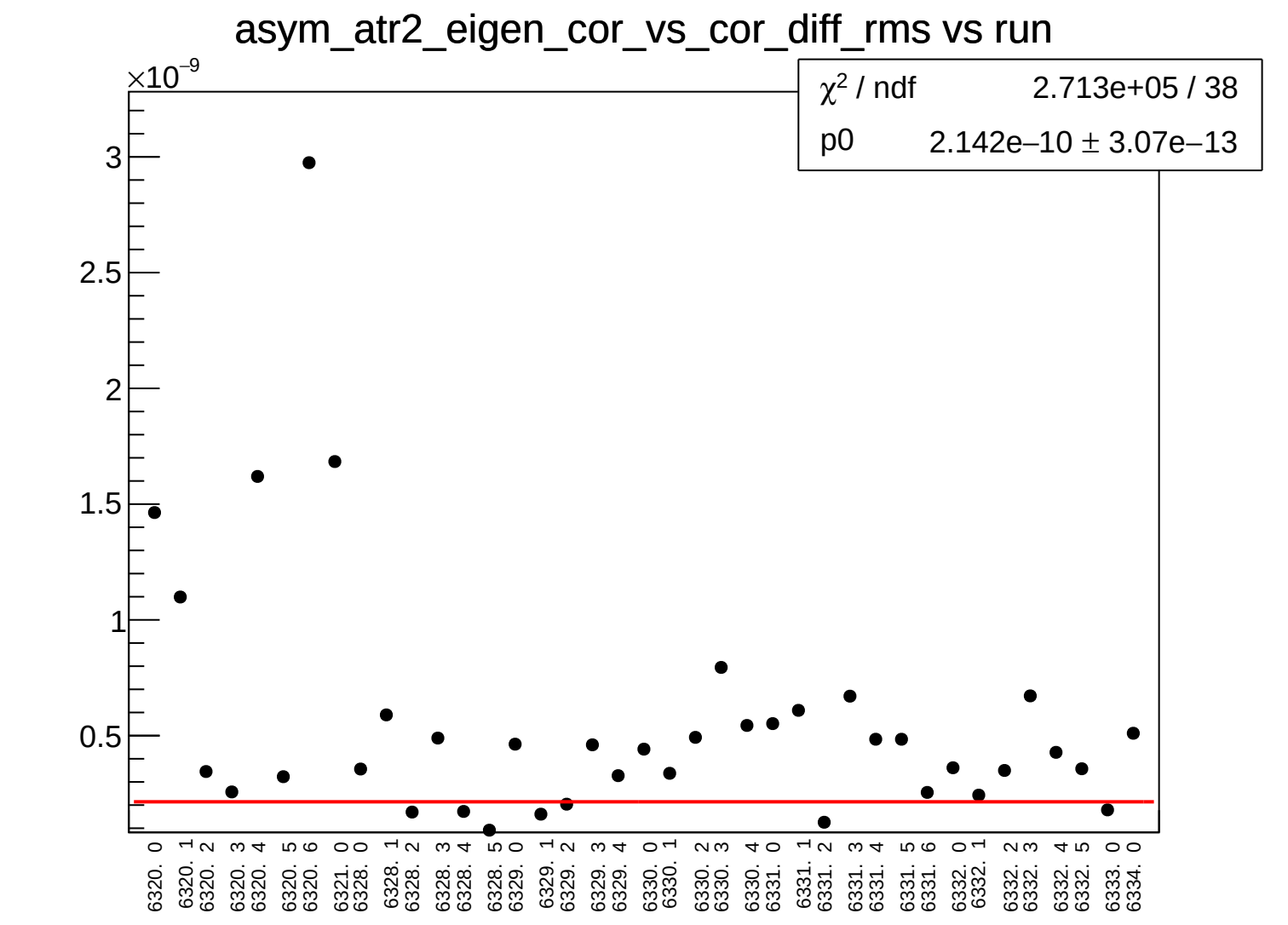

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.761e+04 / 38
p0 677.1 ± 0.7869
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

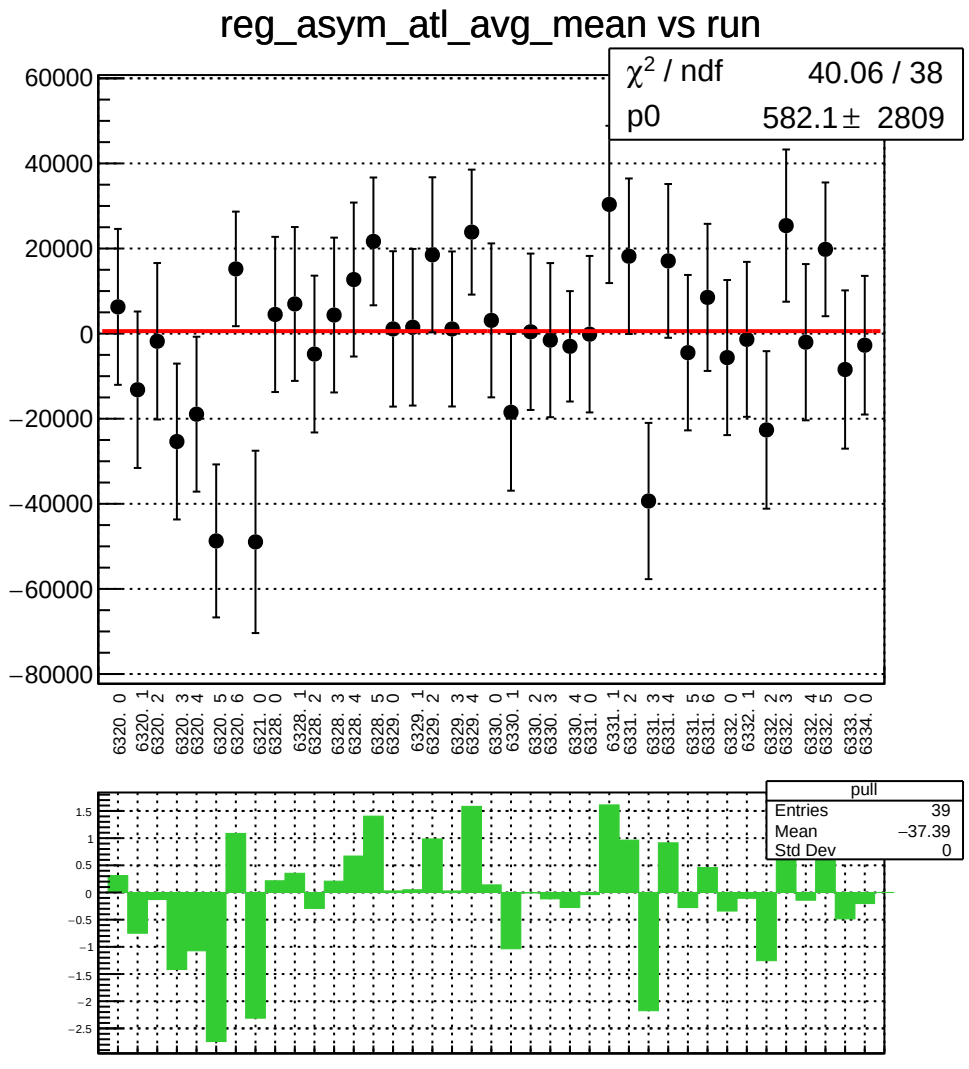

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.83 / 38
p0 −0.1624 ± 1.113
pull
Entries 39
Mean −35.09
Std Dev 0
pull1D
Entries 39
Mean 0.02724
Std Dev 0.9713

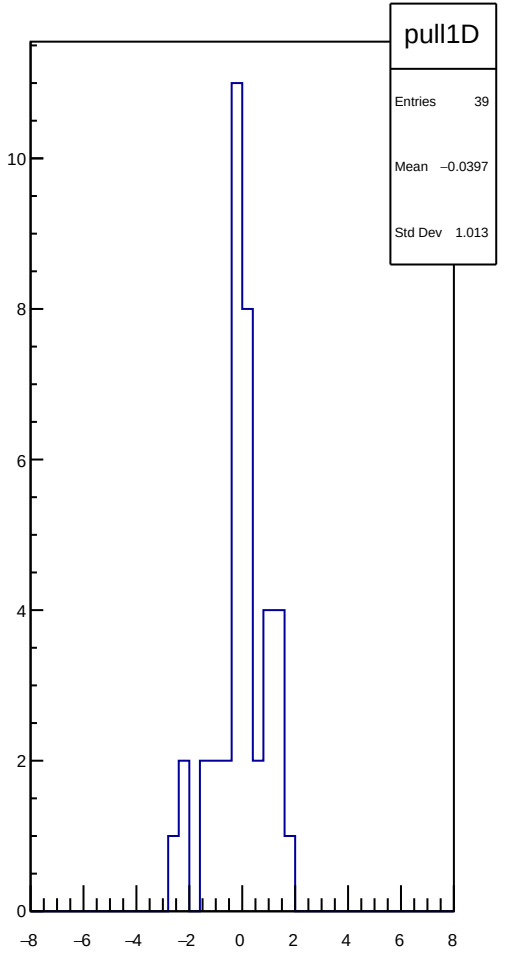

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.761e+04 / 38
p0 677.1 ± 0.7869
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

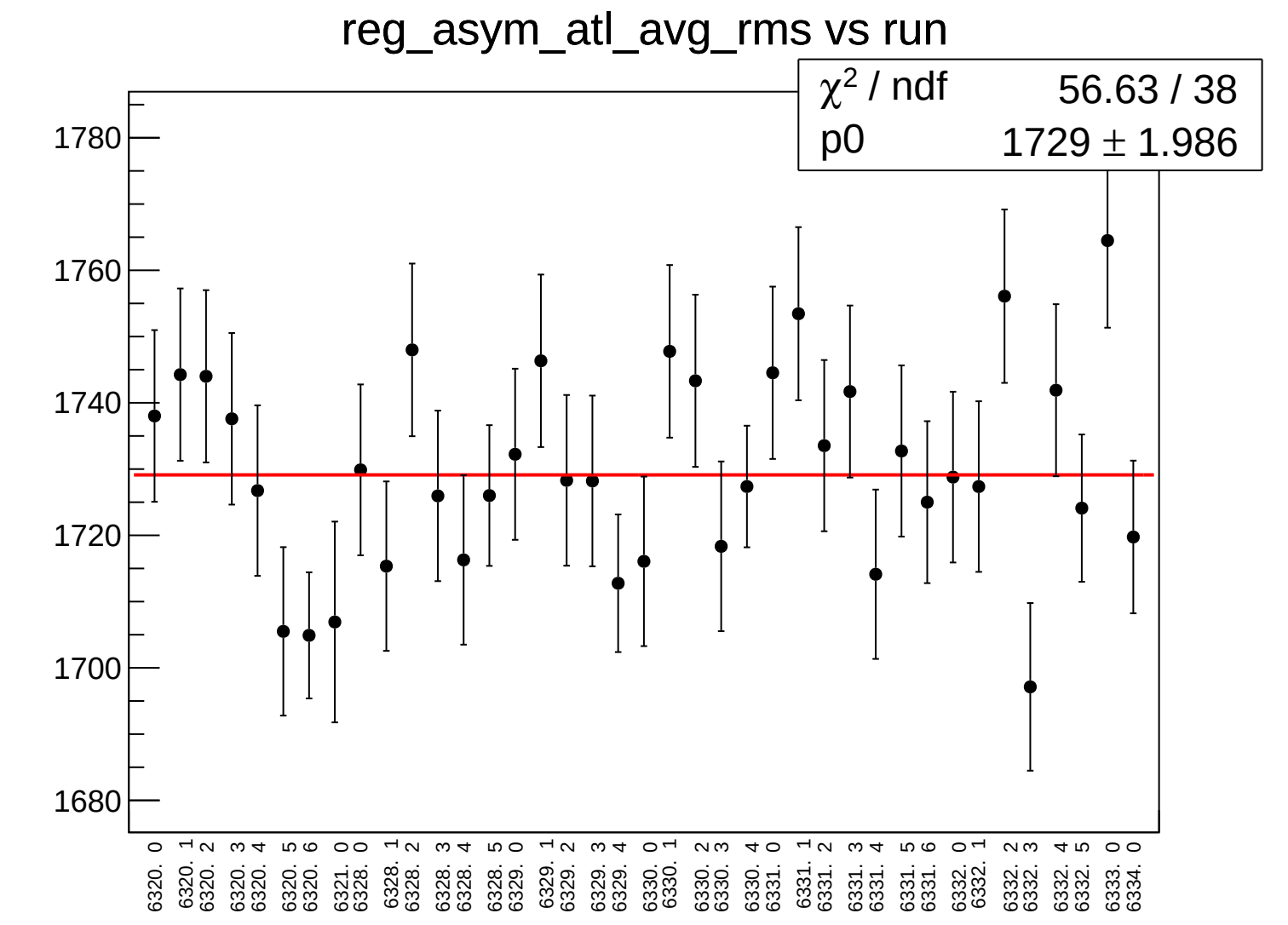

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 24.4 / 38
p0 1.119e−13 ± 4.342e−13
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 272.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

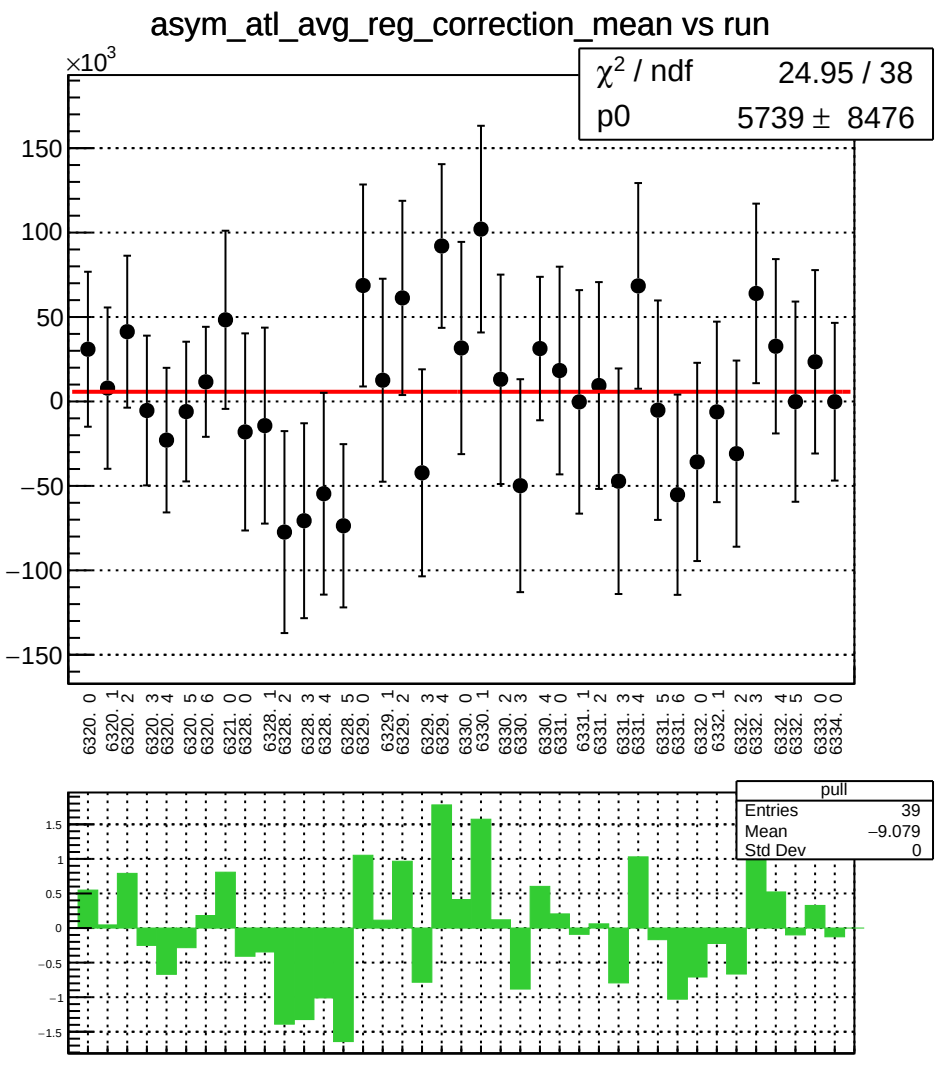

pull1D
Entries 39
Mean 0.01167
Std Dev 0.7909
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

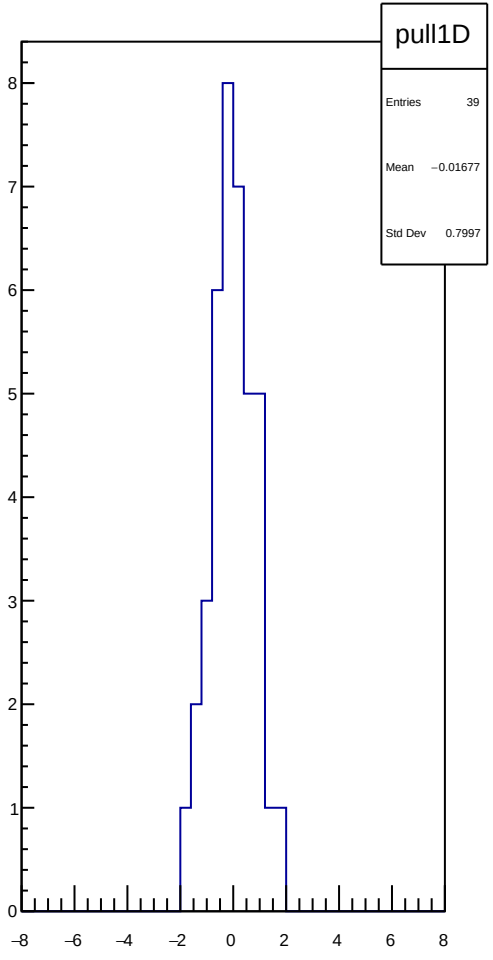

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.713e+05 / 38
p0 2.142e−10 ± 3.07e−13
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

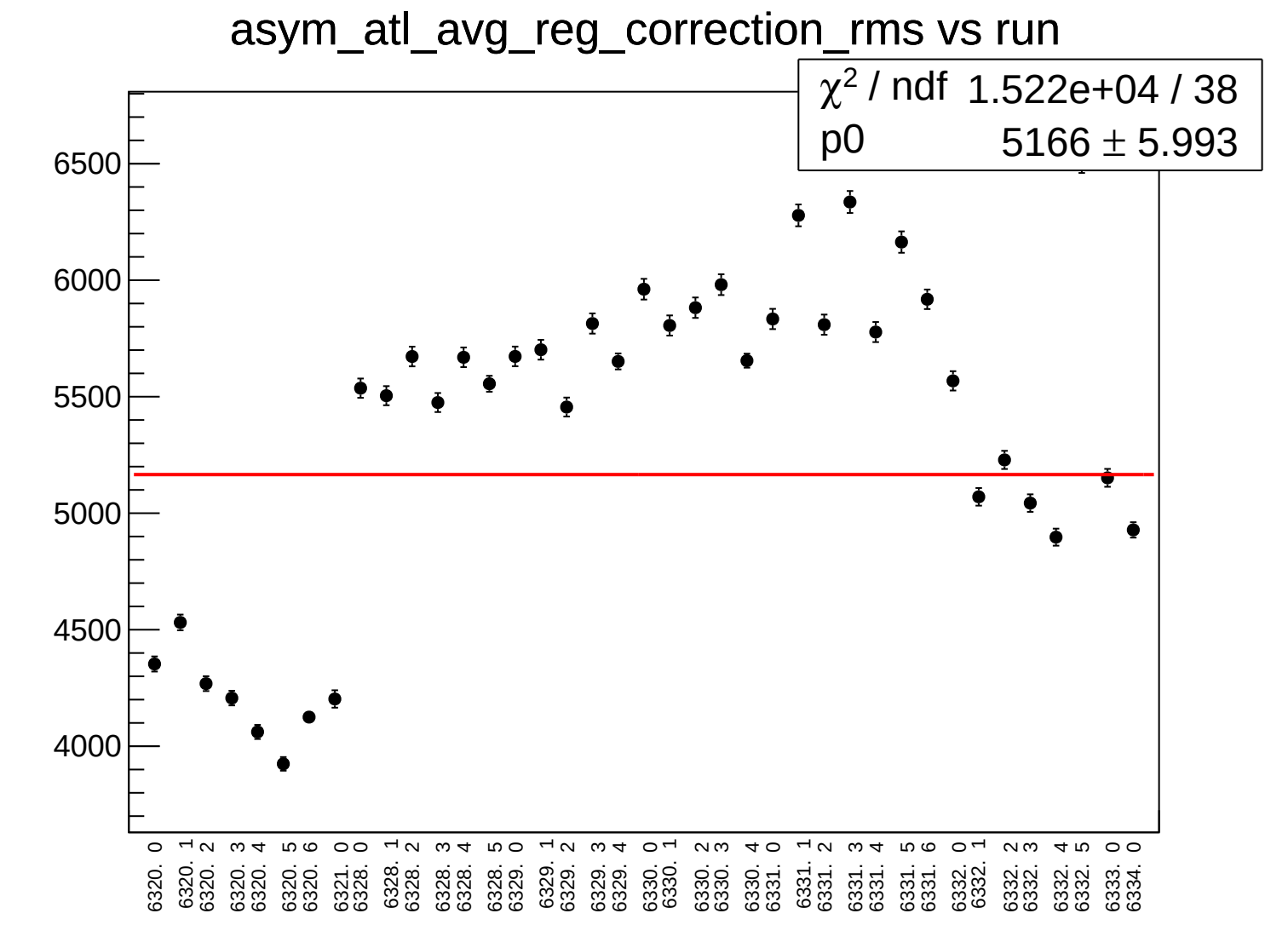

reg_asym_atl_avg_mean vs run
χ² / ndf 40.06 / 38
p0 582.1 ± 2809
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −37.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

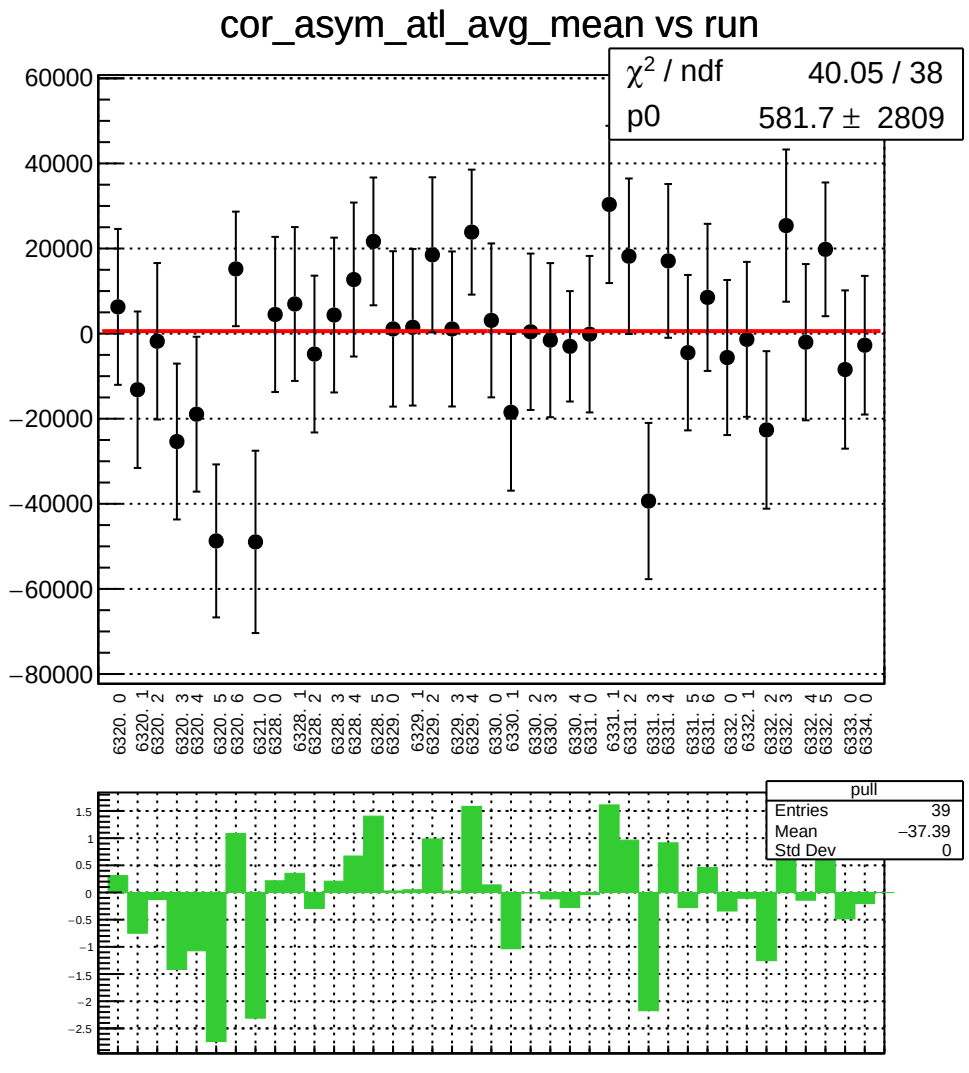

pull1D
Entries 39
Mean −0.0397
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

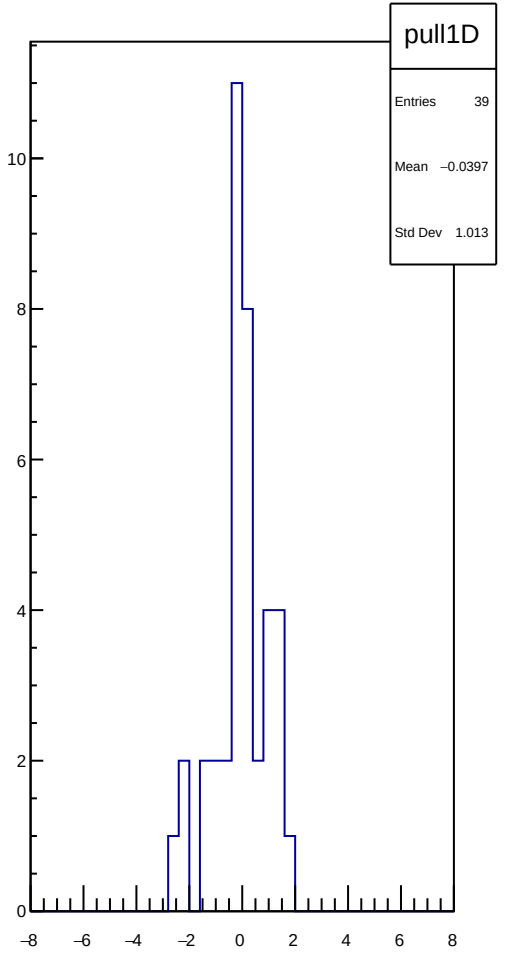

reg_asym_atl_avg_rms vs run
χ² / ndf 56.63 / 38
p0 1729 ± 1.986
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

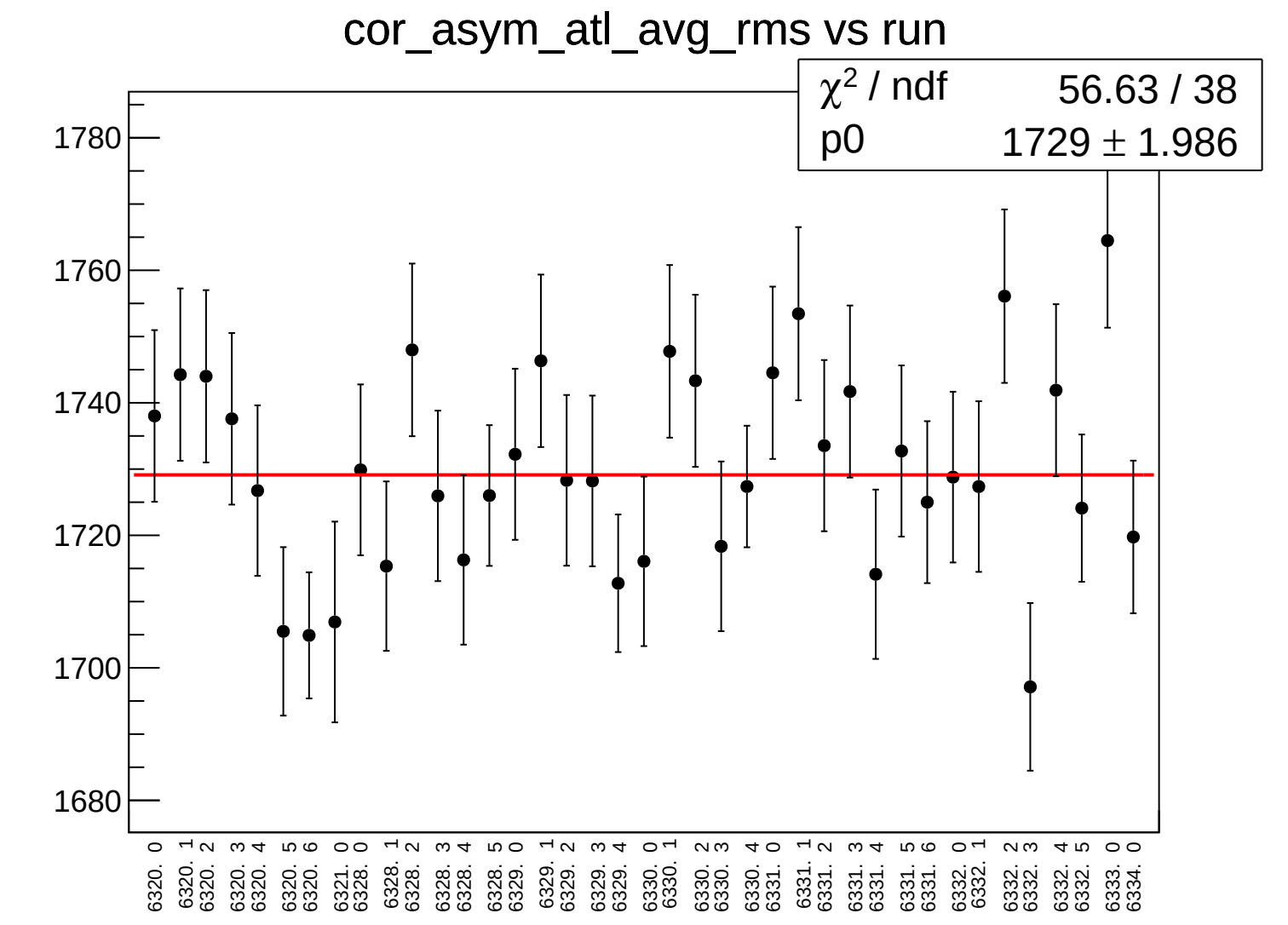

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.95 / 38
p0 5739 ± 8476
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.079
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

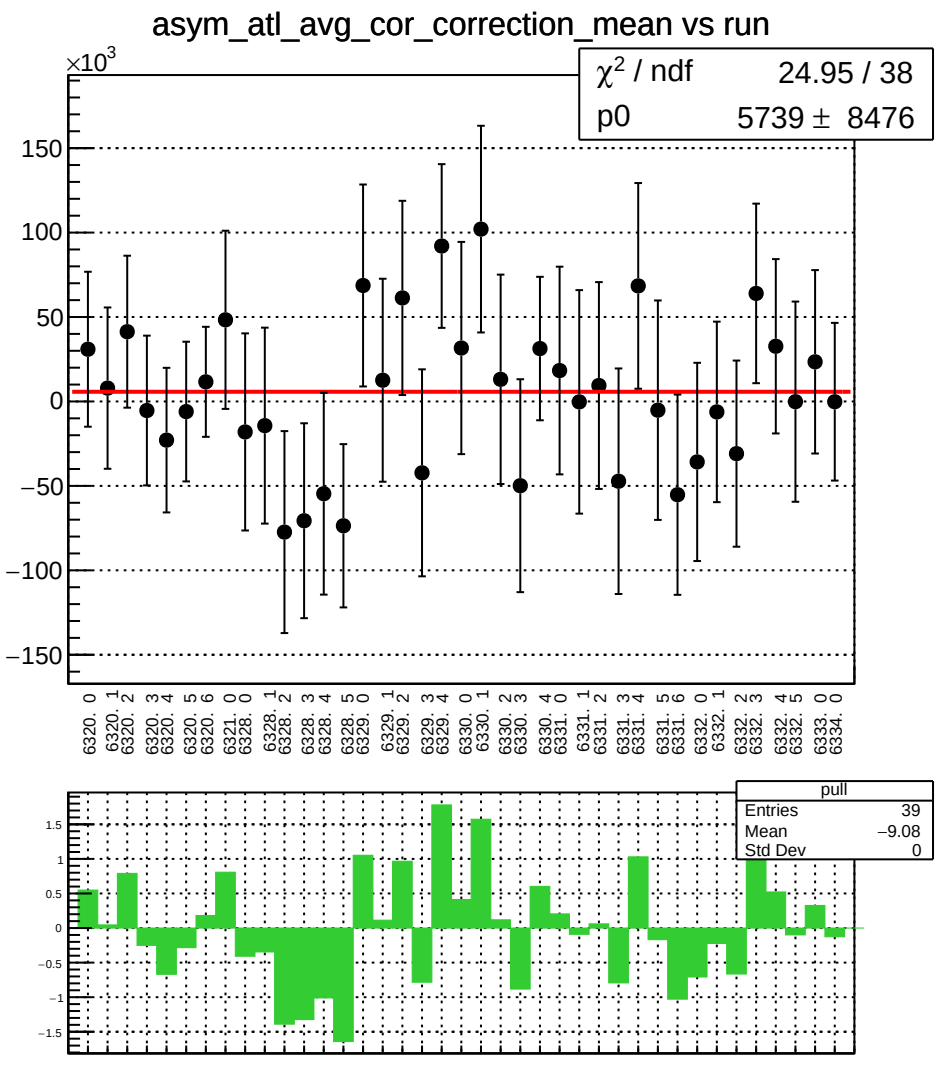

pull1D
Entries 39
Mean −0.01677
Std Dev 0.7997
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

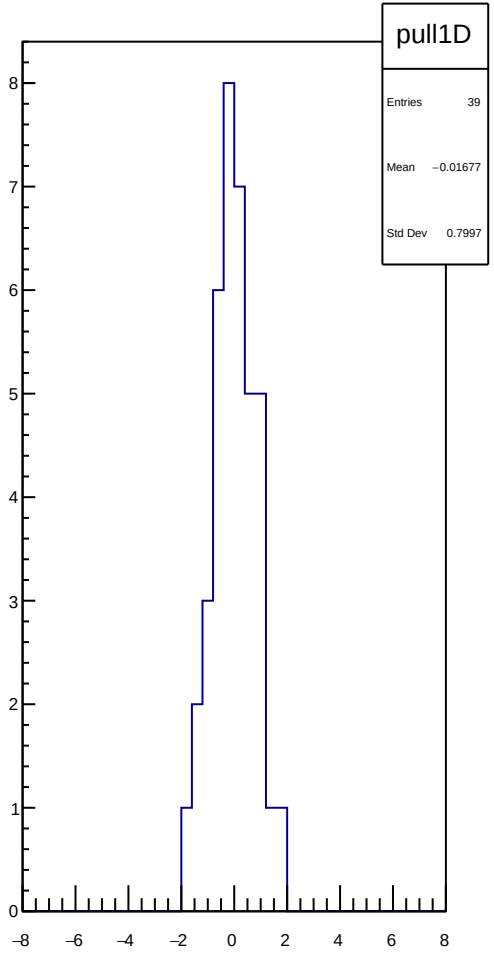

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.522e+04 / 38
p0 5166 ± 5.993
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

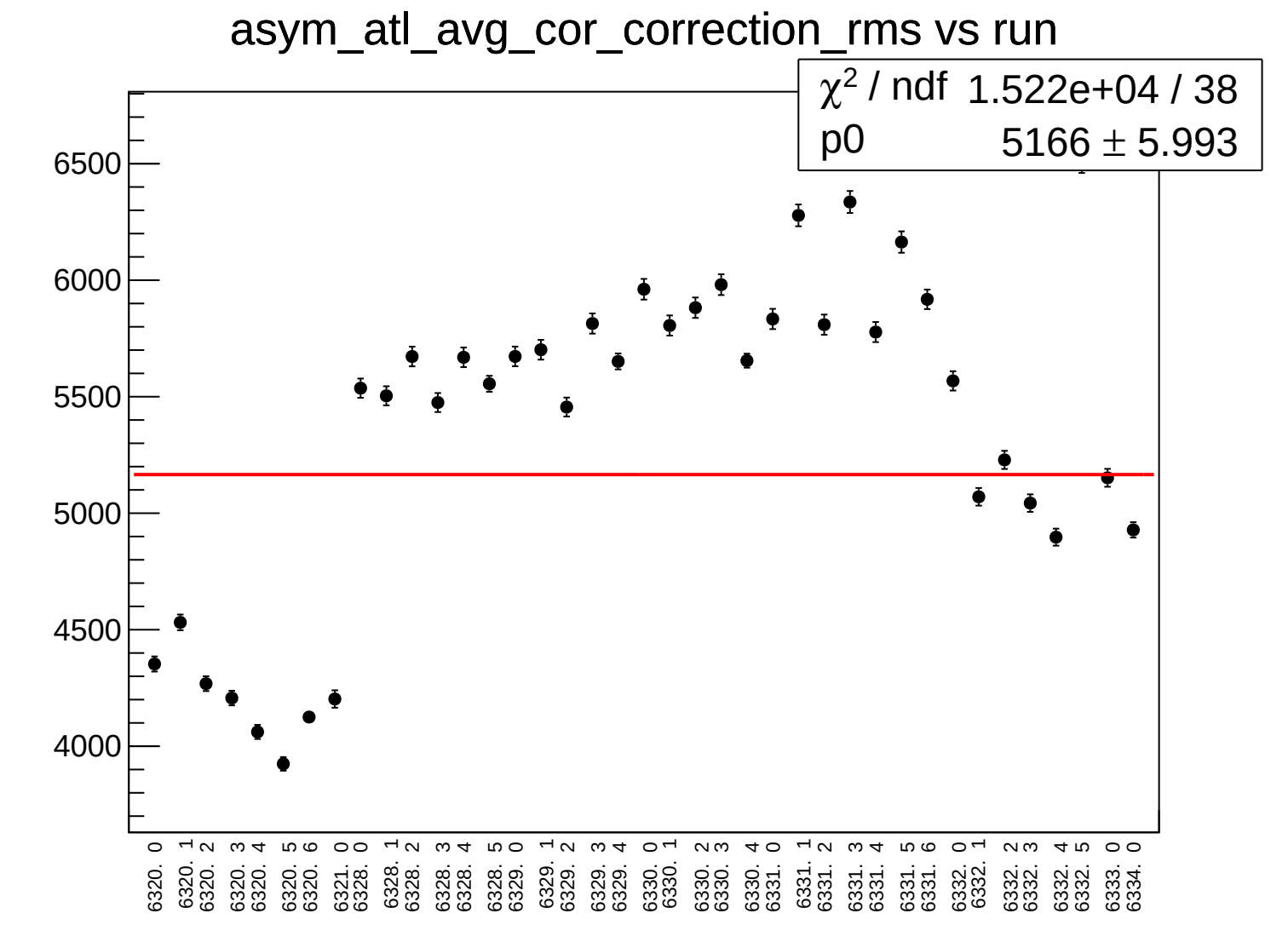

cor_asym_atl_avg_mean vs run
χ² / ndf 40.05 / 38
p0 581.7 ± 2809
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −37.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.0397
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_rms vs run
χ² / ndf 56.63 / 38
p0 1729 ± 1.986
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_avg_cor_correction_mean vs run
χ² / ndf 24.95 / 38
p0 5739 ± 8476
×10³
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01677
Std Dev 0.7997
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.522e+04 / 38
p0 5166 ± 5.993
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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6332. 2
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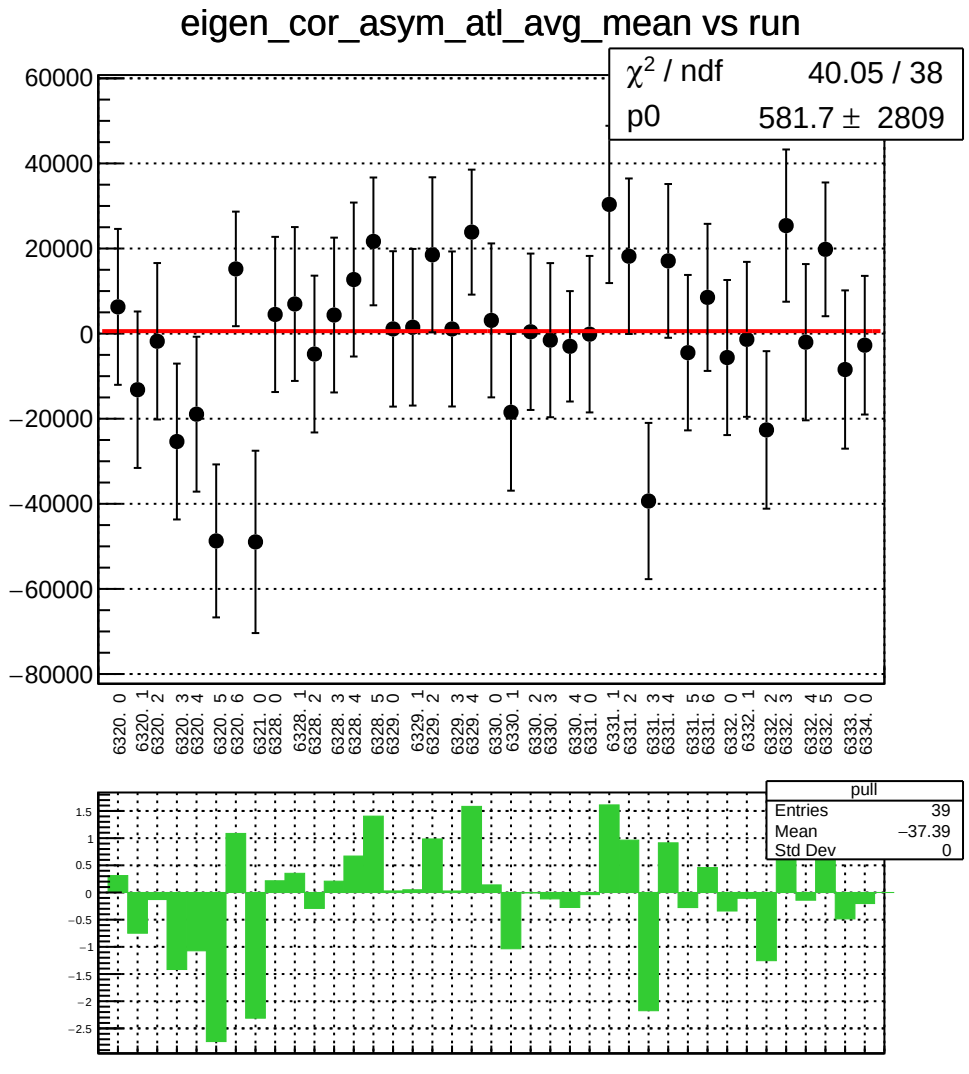
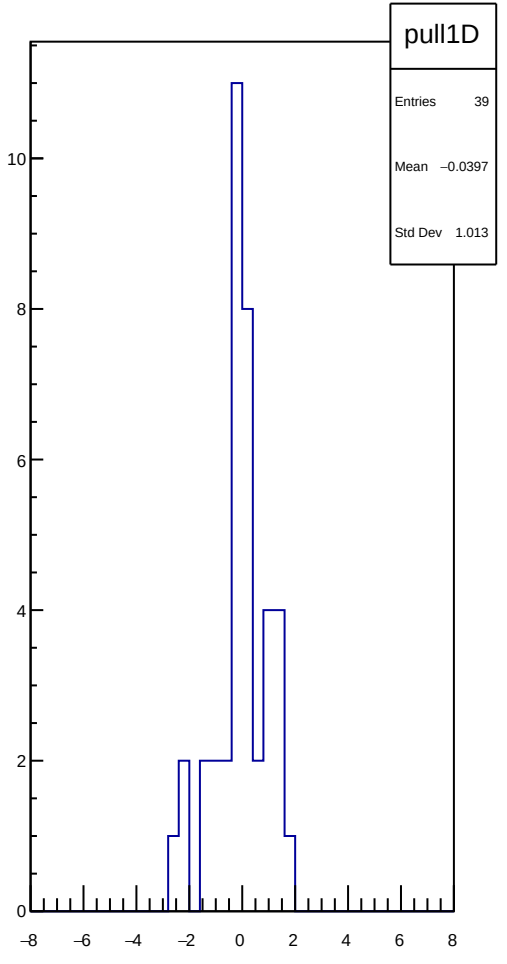
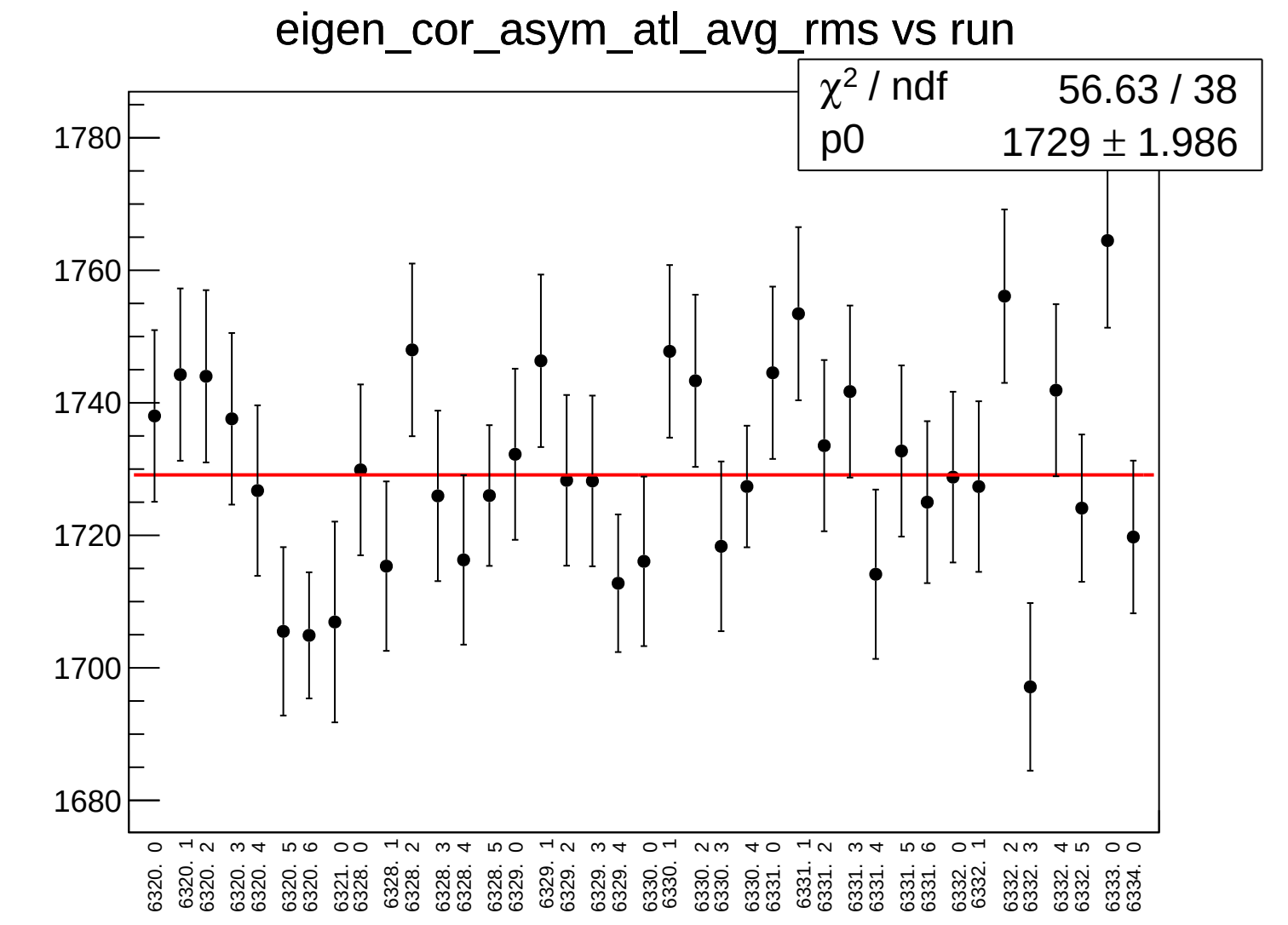
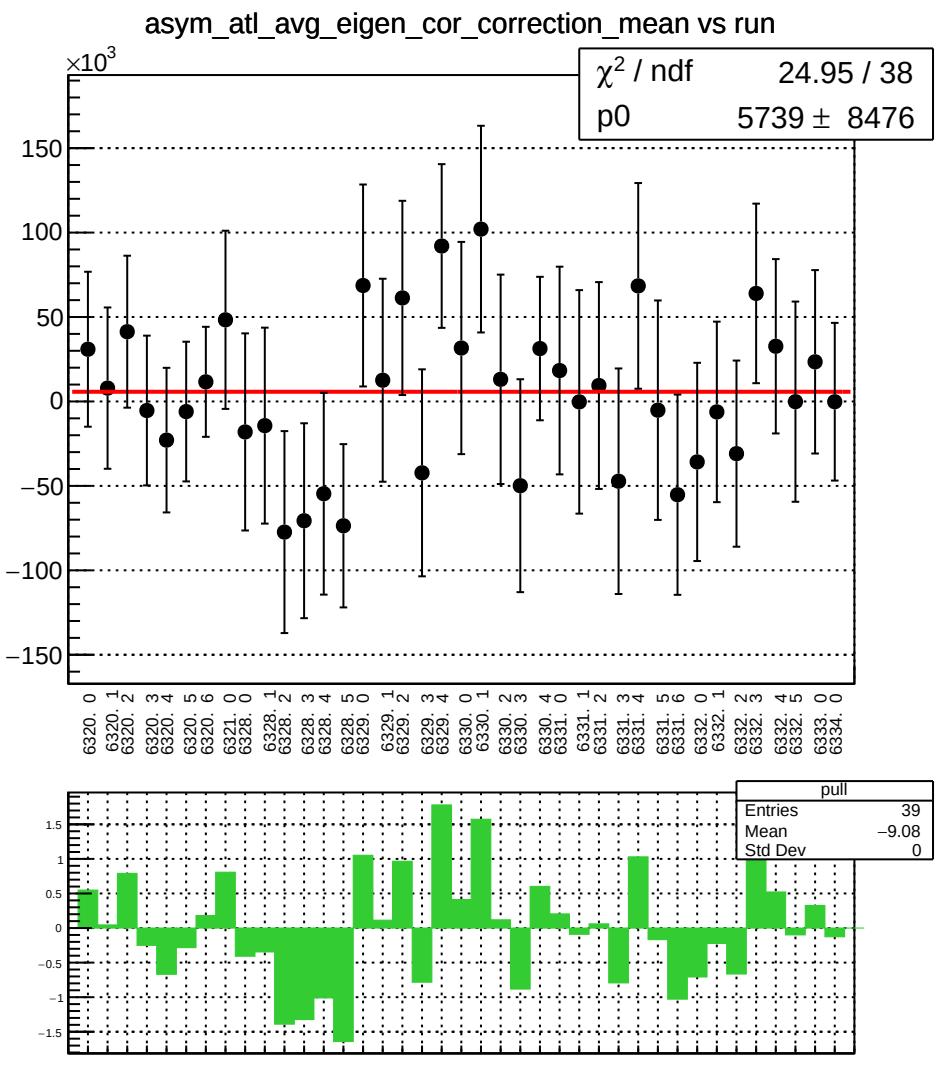
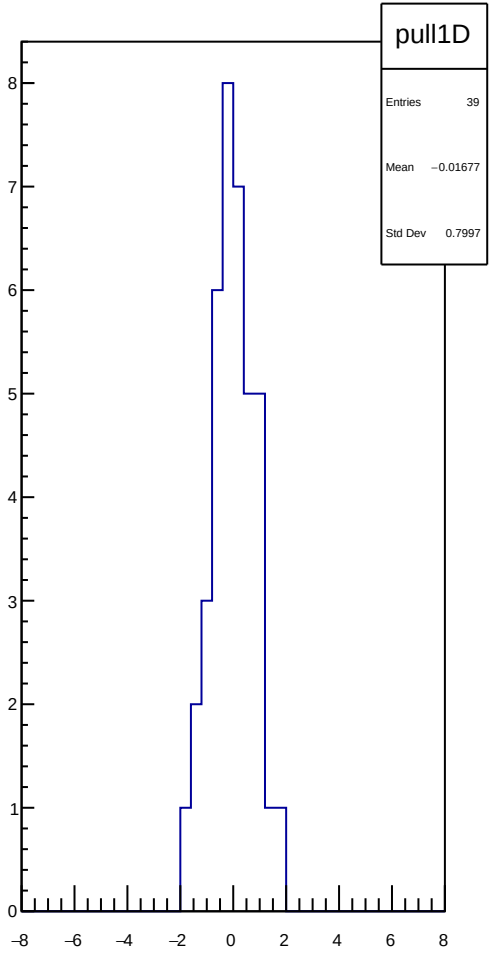
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 40.05 / 38
p0 581.7 ± 2809
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −37.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.0397
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 56.63 / 38
p0 1729 ± 1.986
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.95 / 38
p0 5739 ± 8476
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01677
Std Dev 0.7997
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7
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5
4
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2
1
0
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−4
−2
0
2
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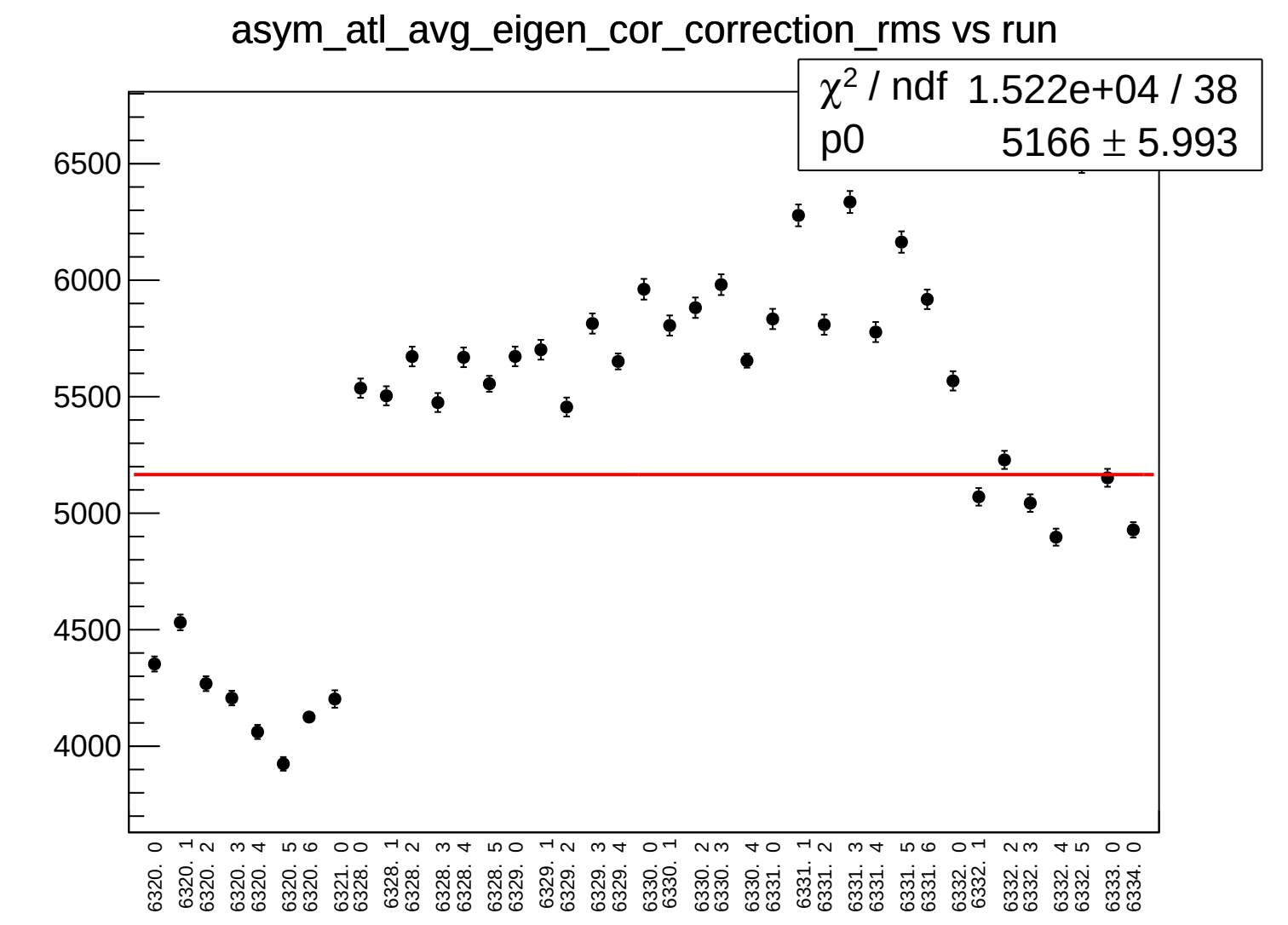
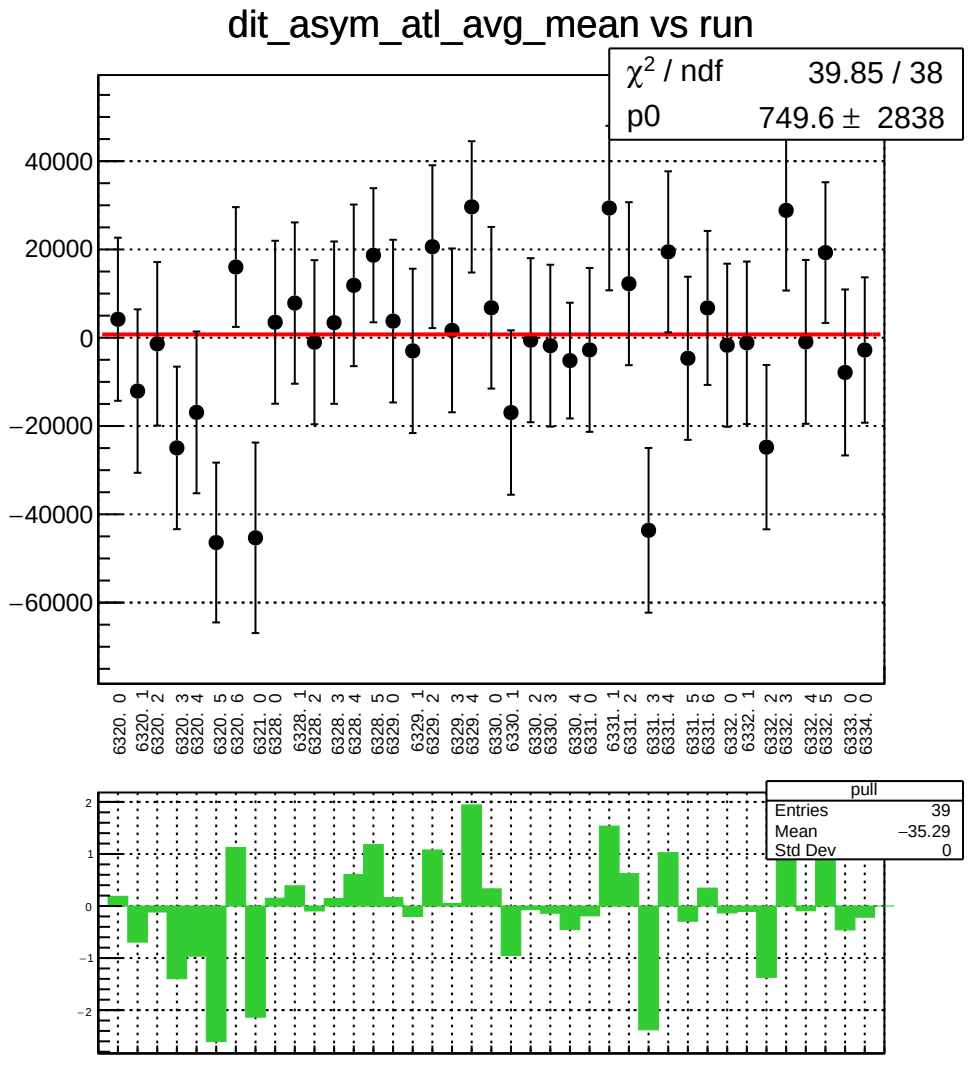
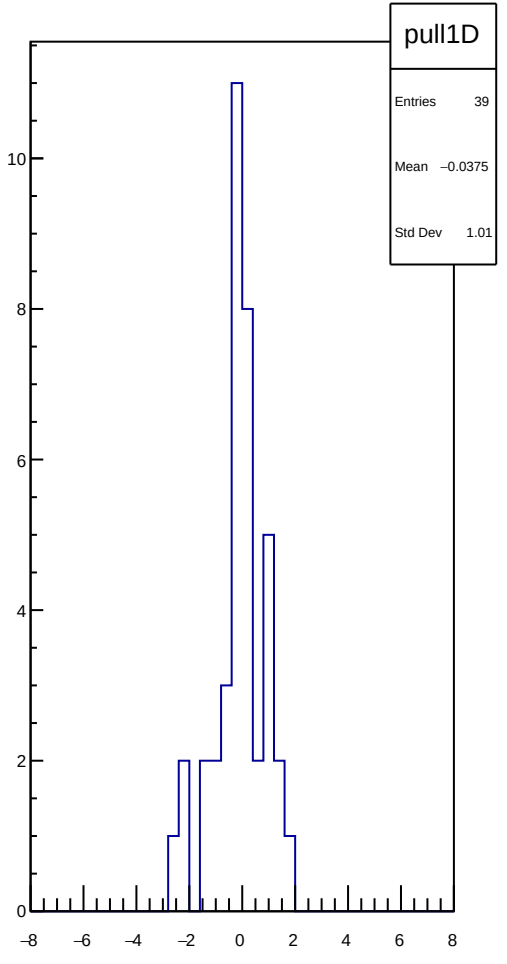
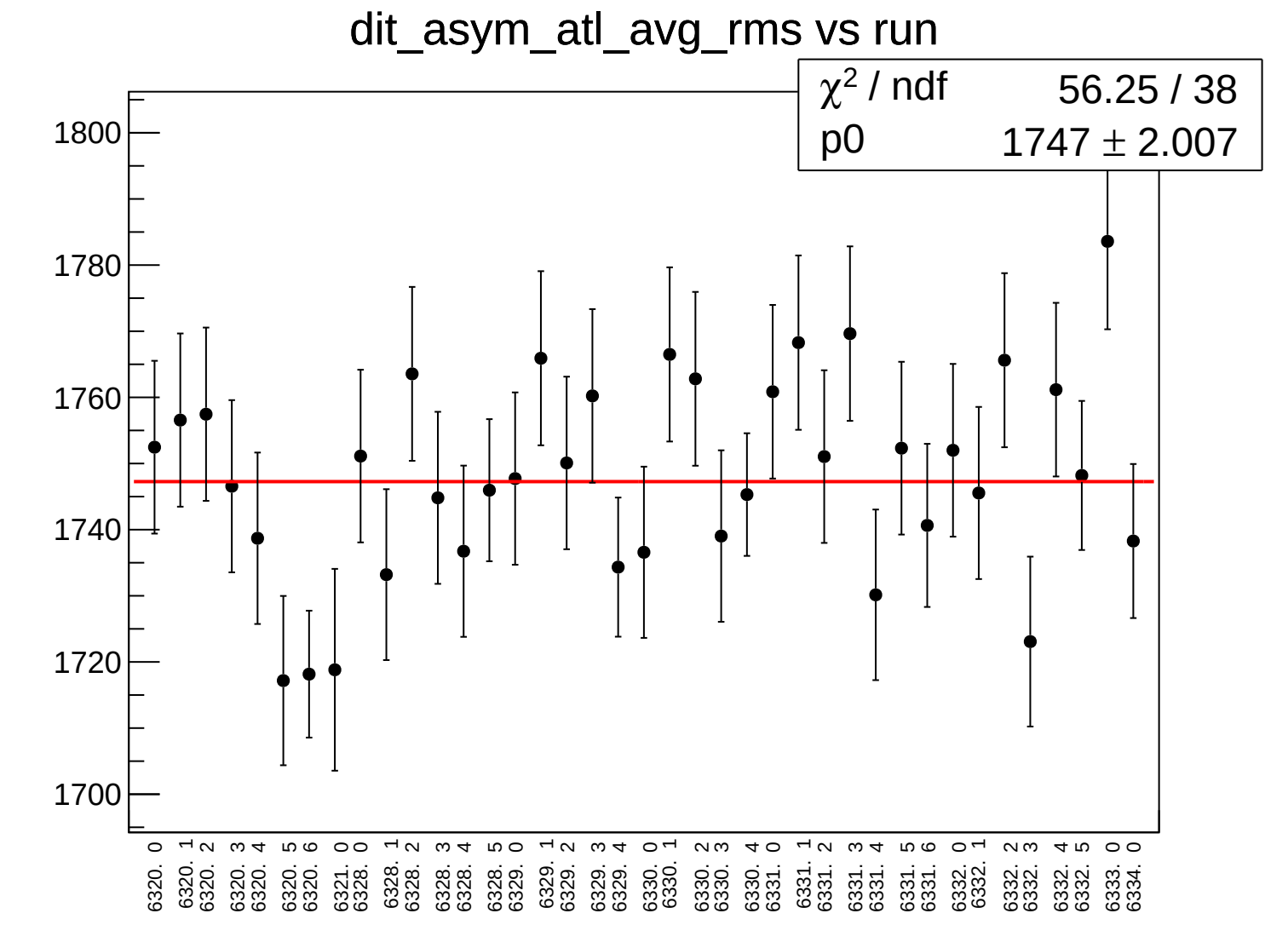
6
8


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.522e+04 / 38
p0 5166 ± 5.993
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_atl_avg_mean vs run
χ² / ndf 39.85 / 38
p0 749.6 ± 2838
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.29
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.0375
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_rms vs run
χ² / ndf 56.25 / 38
p0 1747 ± 2.007
1800
1780
1760
1740
1720
1700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
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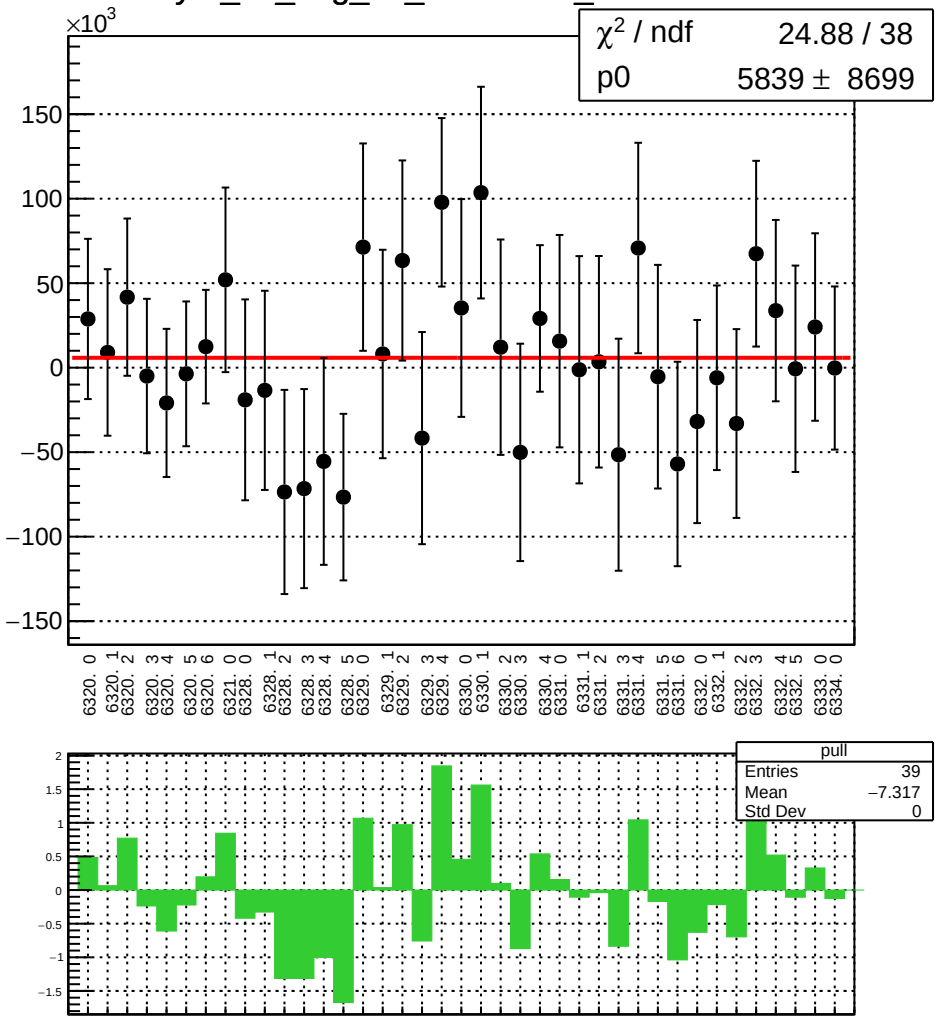
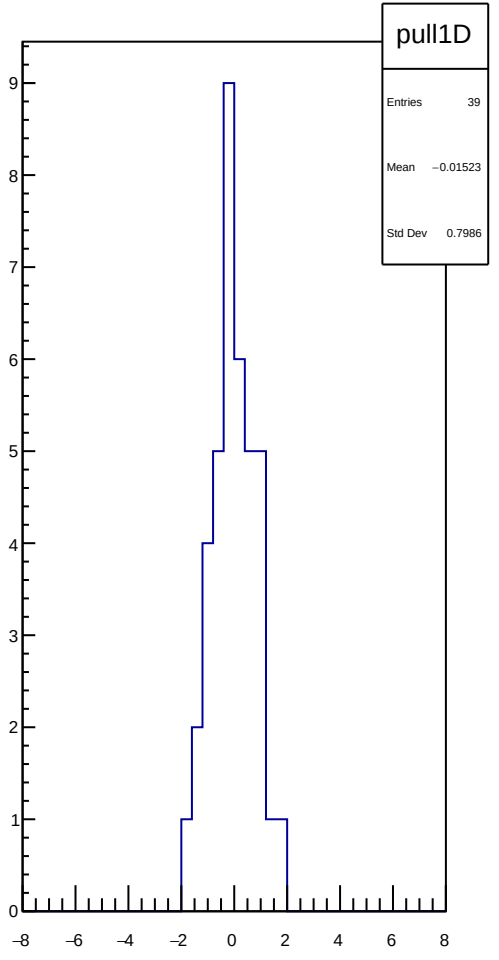
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 5839 ± 8699
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.317
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01523
Std Dev 0.7986
9
8
7
6
5
4
3
2
1
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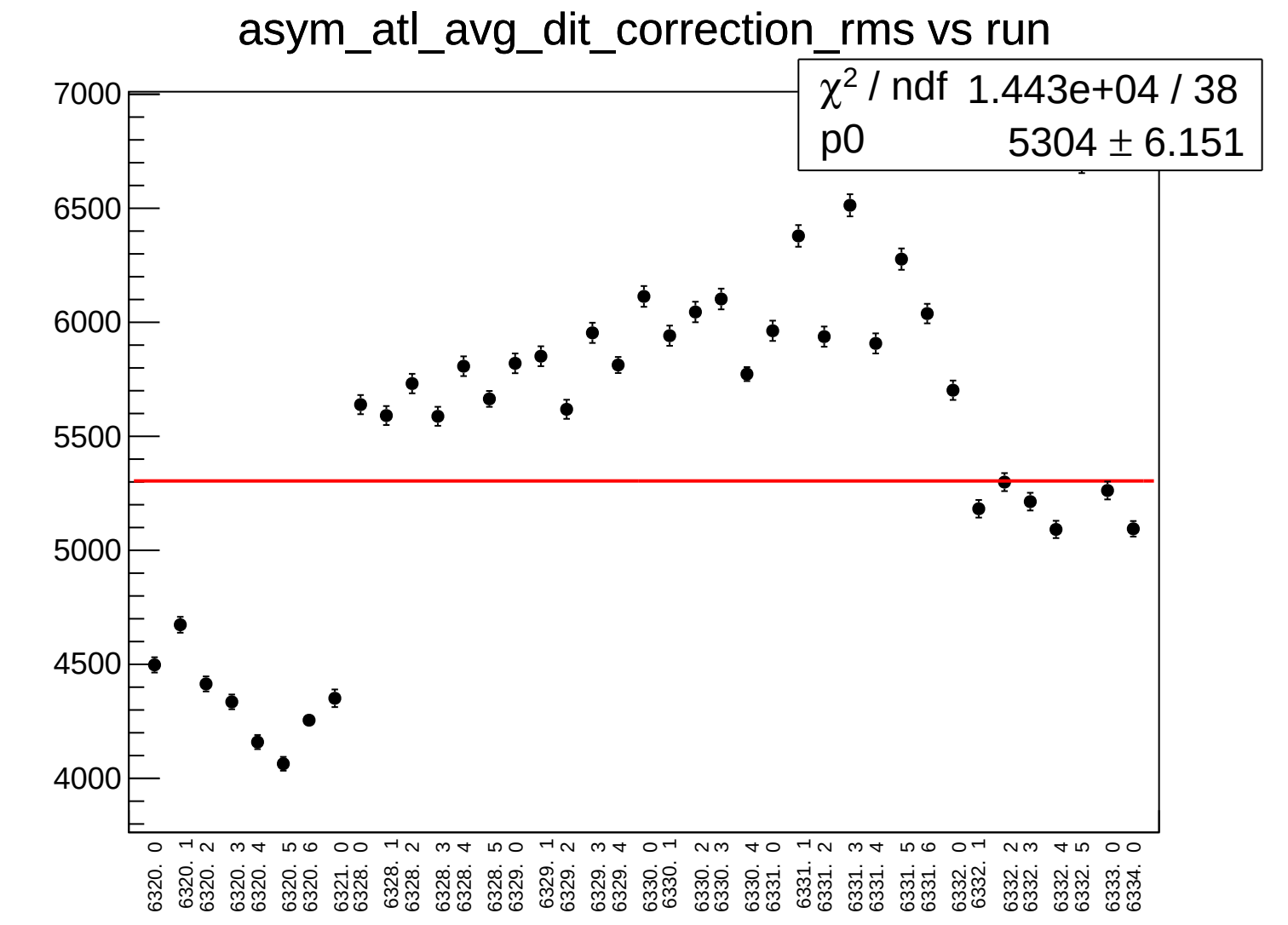
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.443e+04 / 38
p0 5304 ± 6.151
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
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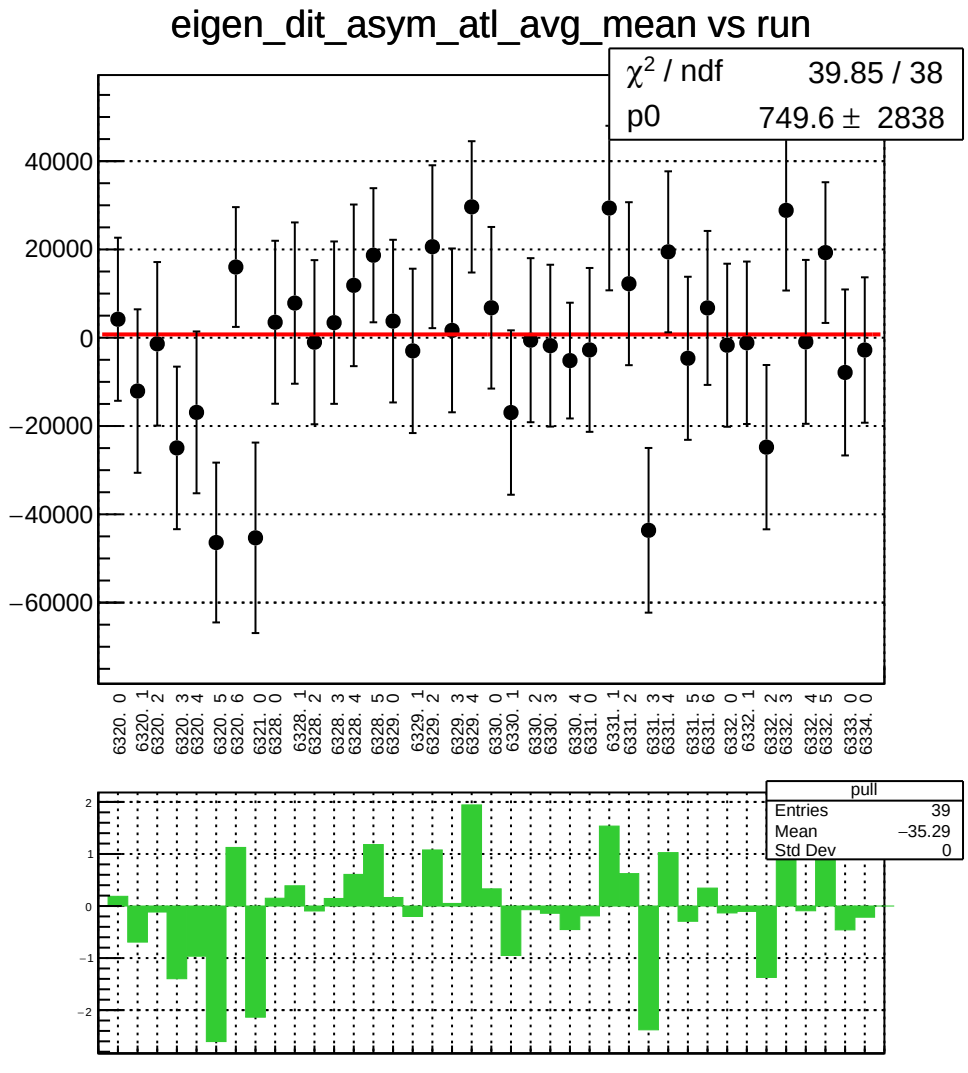
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 39.85 / 38
p0 749.6 ± 2838
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
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6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
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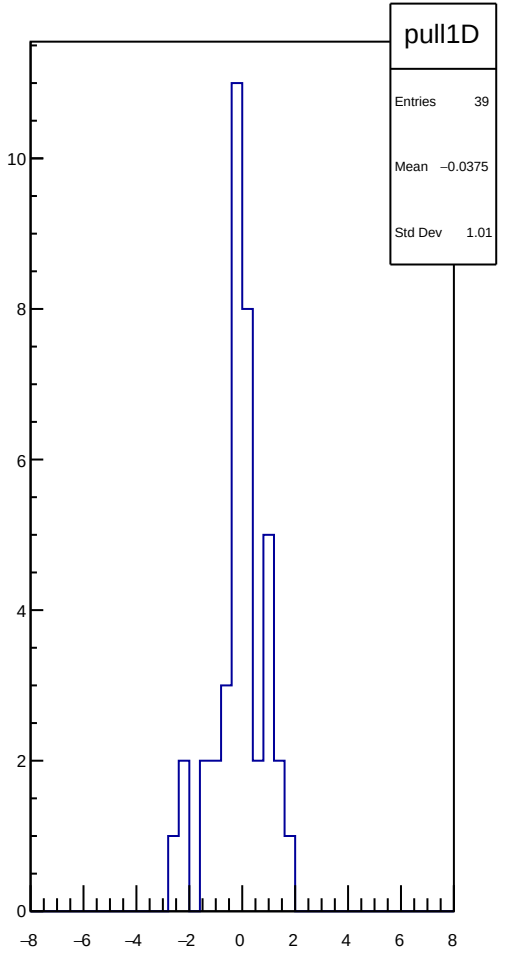
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.29
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.0375
Std Dev 1.01
10
8
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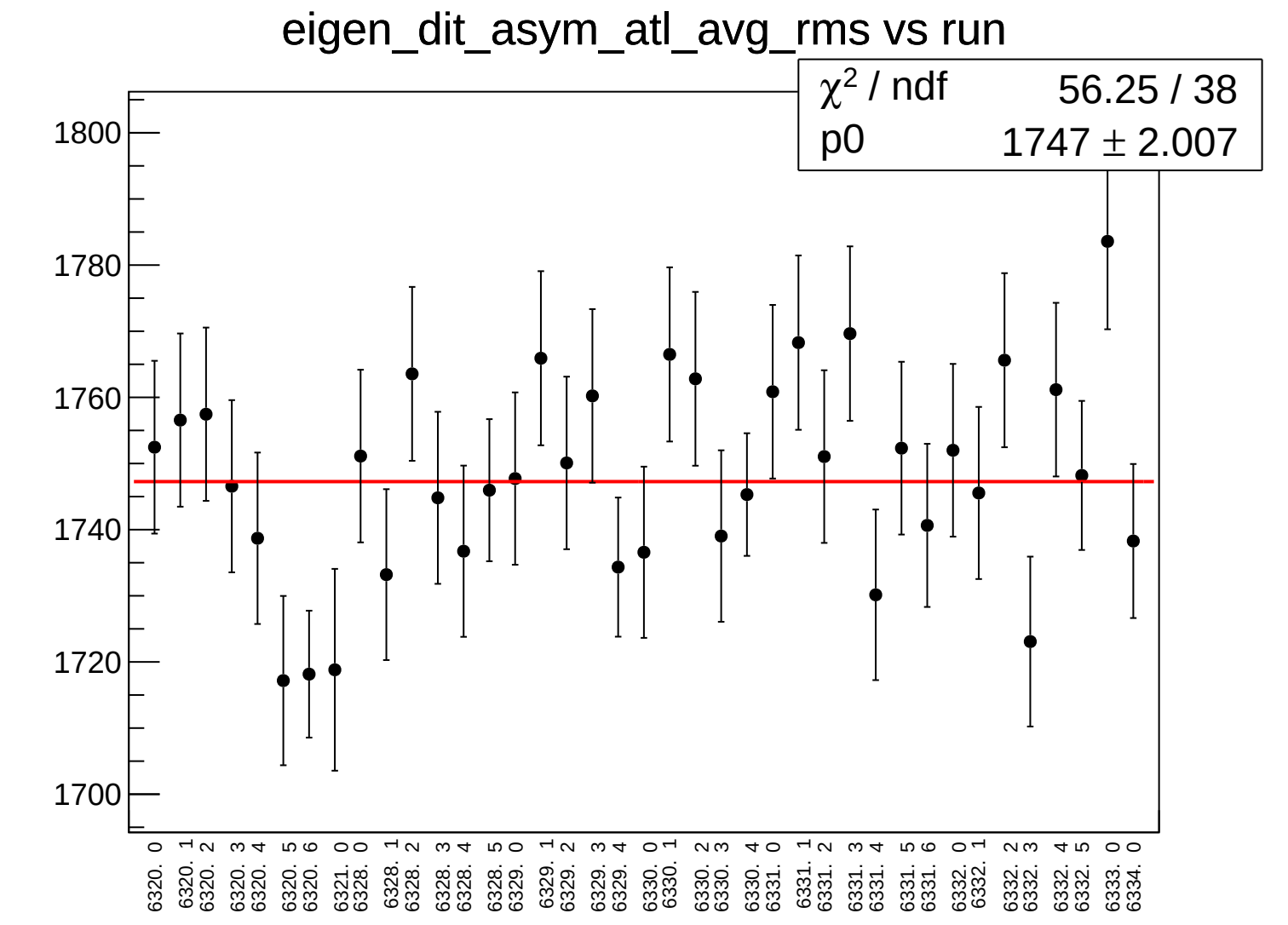
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 56.25 / 38
p0 1747 ± 2.007
1800
1780
1760
1740
1720
1700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6328. 1
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6331. 4
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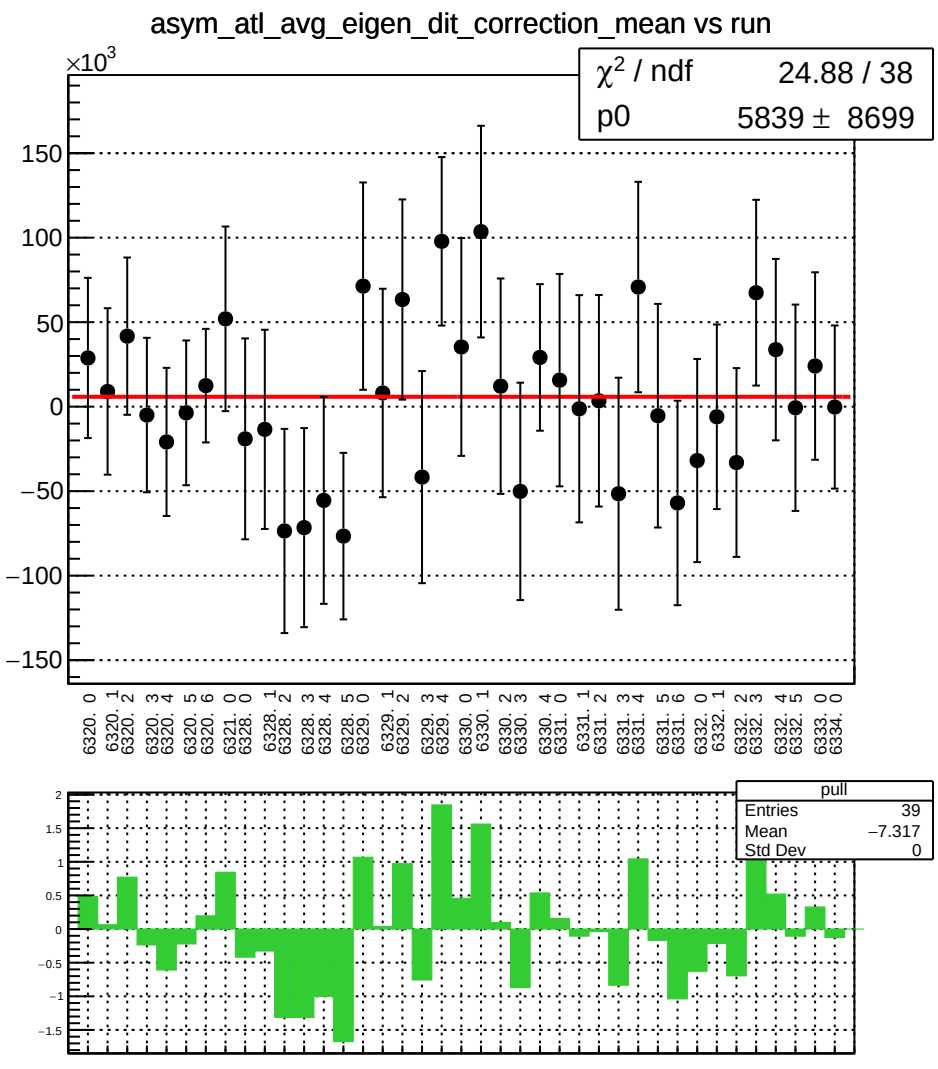
asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 24.88 / 38
p0 5839 ± 8699
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
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6330. 0
6330. 1
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6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.317
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01523
Std Dev 0.7986
9
8
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4
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−4
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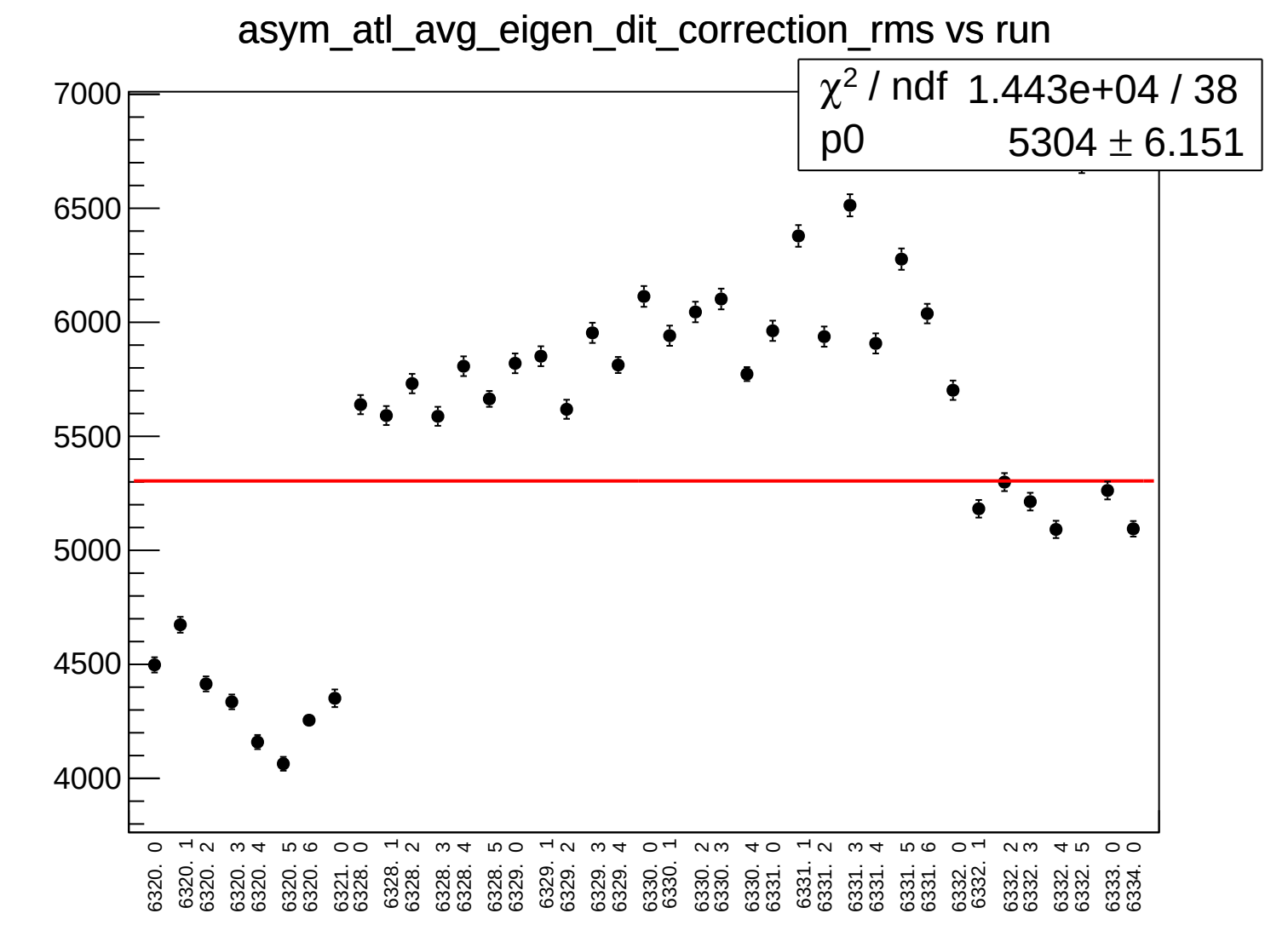
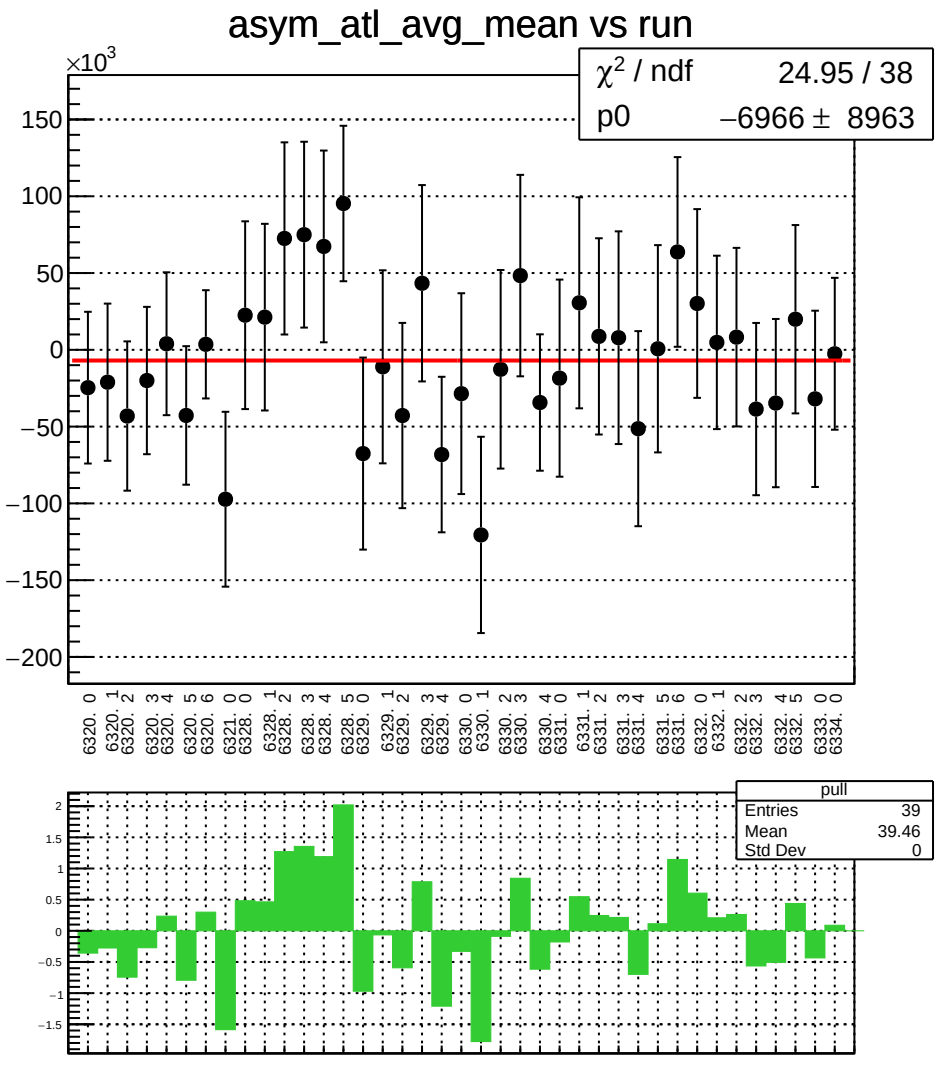
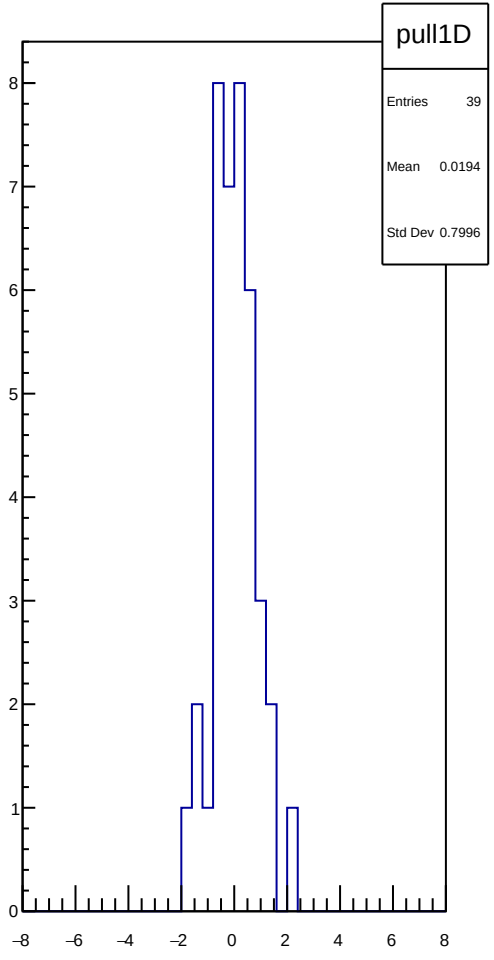
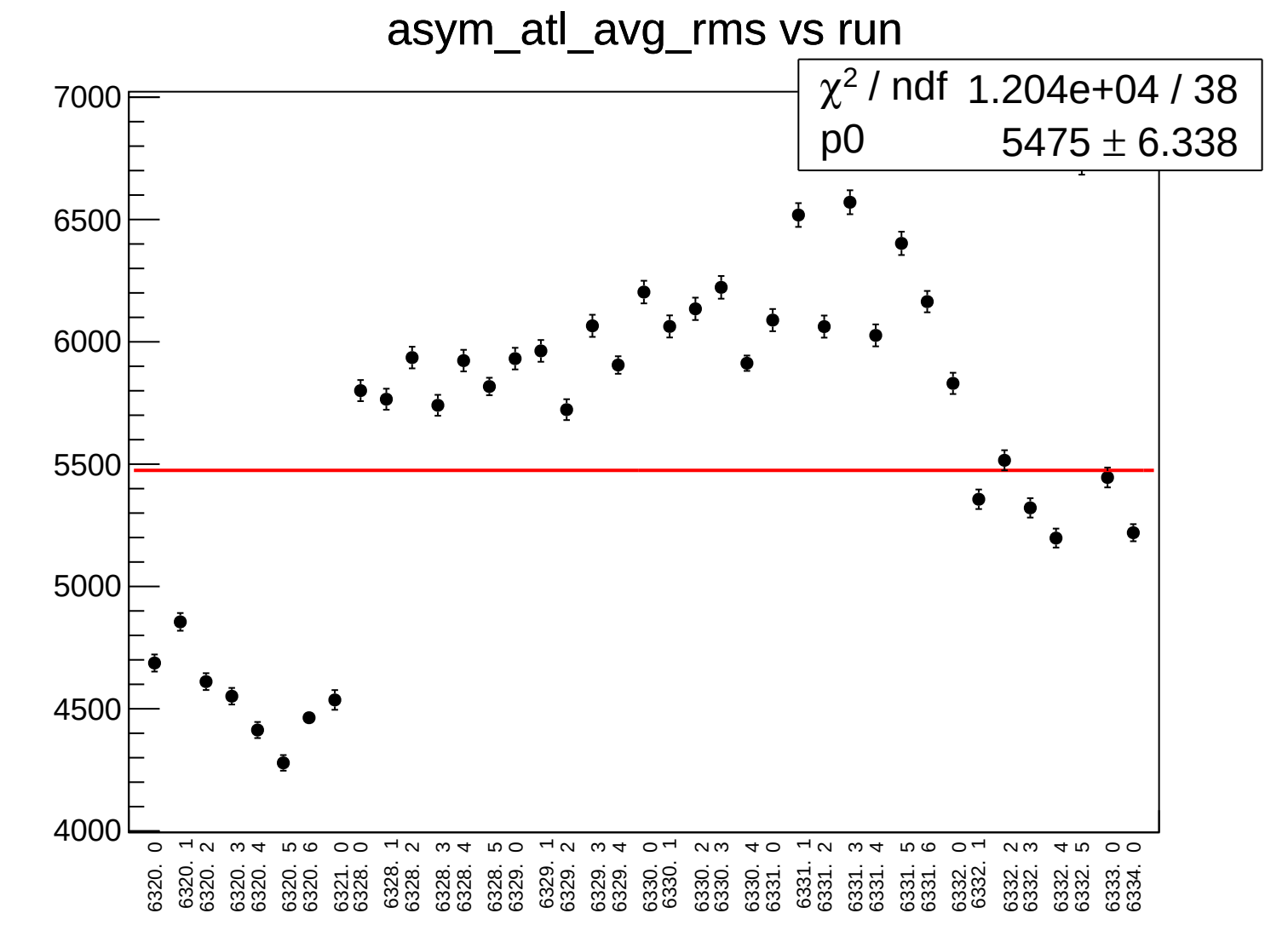
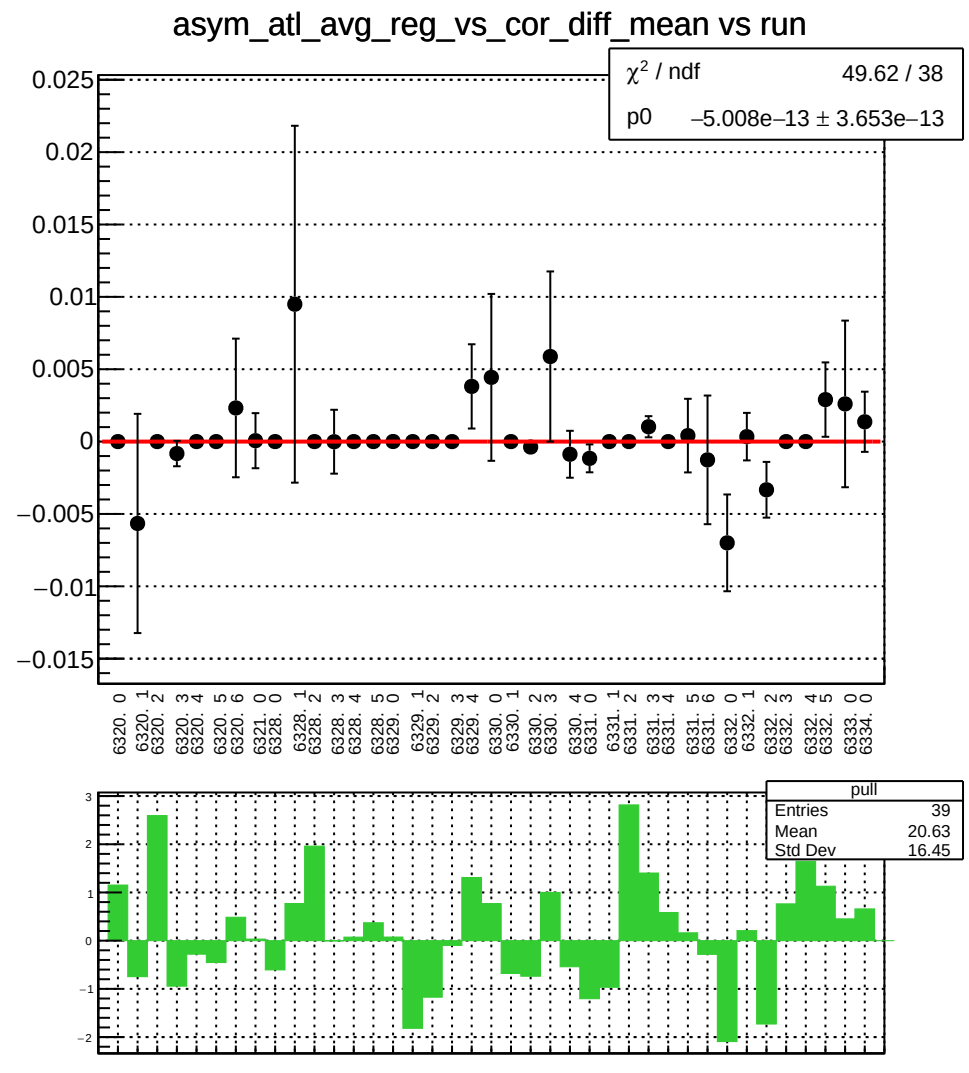
2
4
6
8

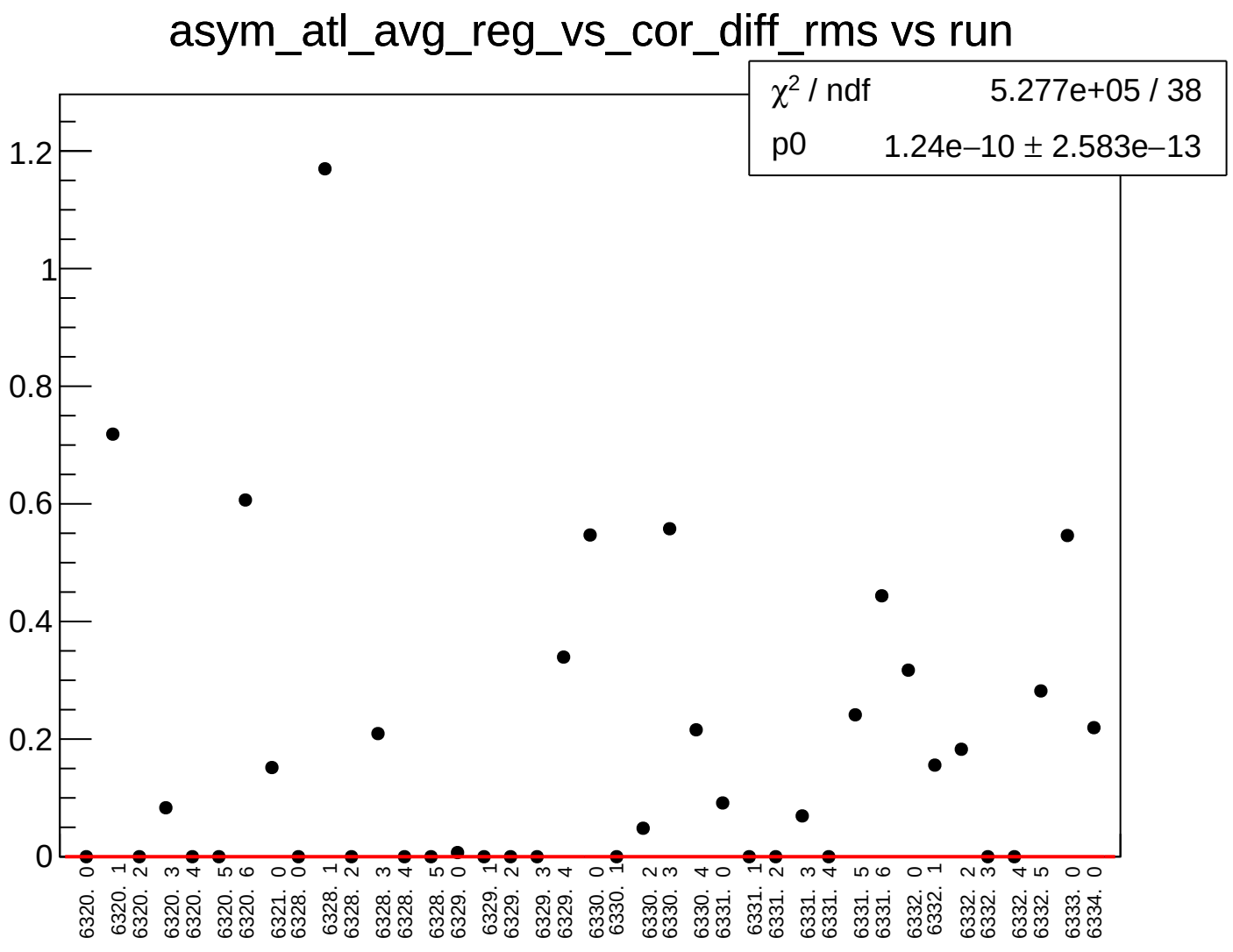

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.443e+04 / 38
p0 5304 ± 6.151
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

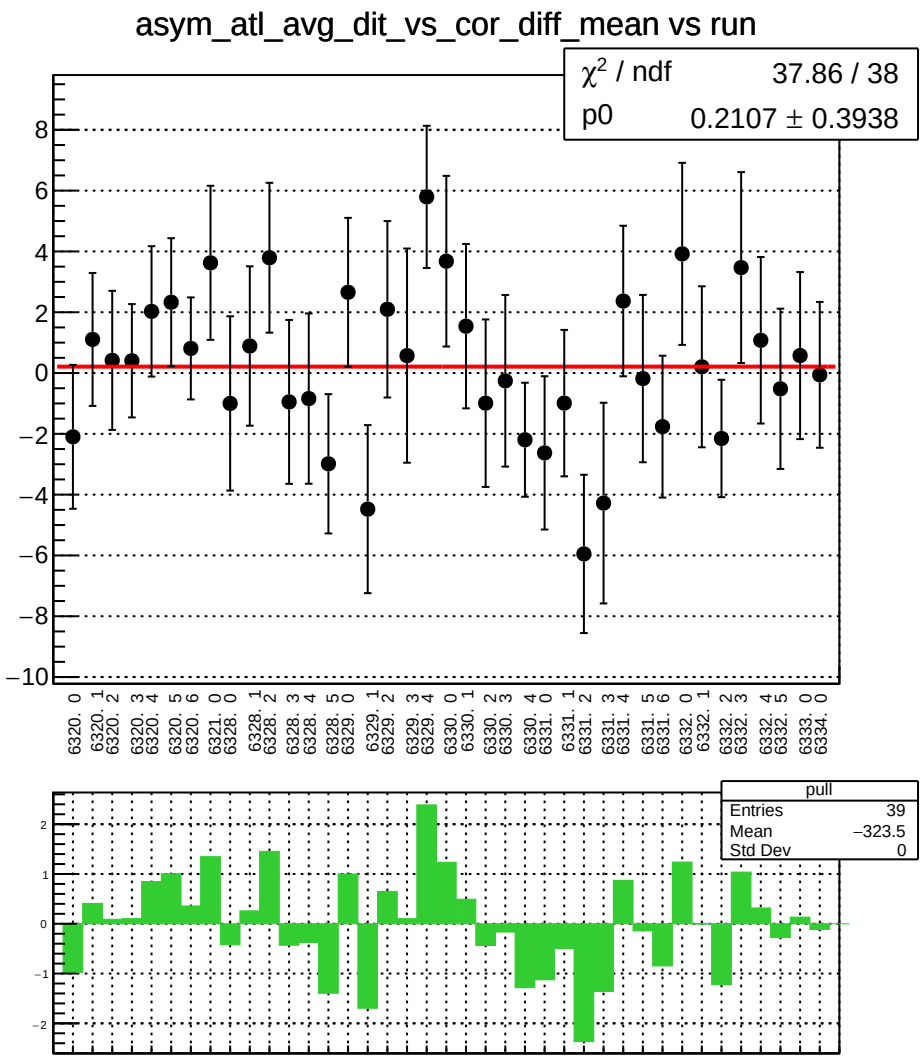

asym_atl_avg_mean vs run
×10^3
χ² / ndf 24.95 / 38
p0 −6966 ± 8963
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

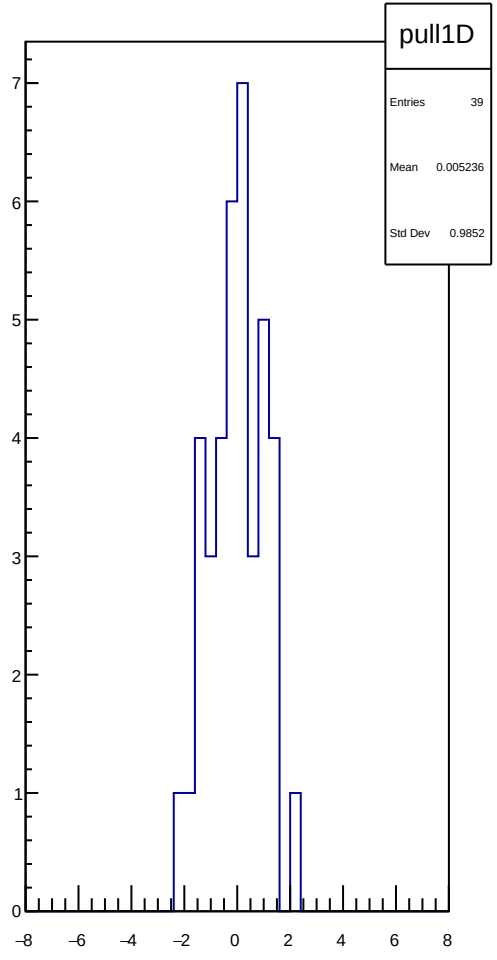

pull1D
Entries 39
Mean 0.0194
Std Dev 0.7996
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

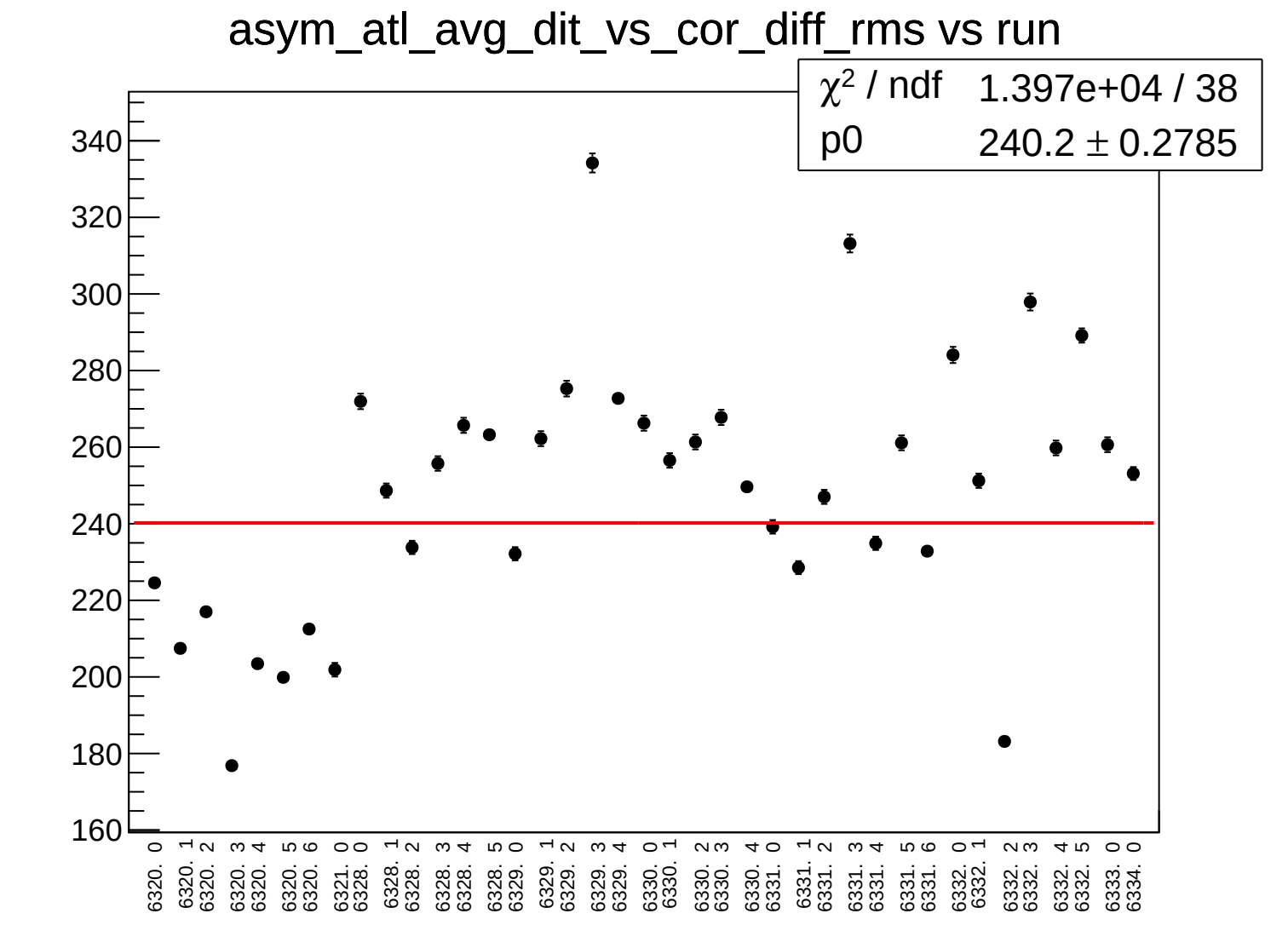

asym_atl_avg_rms vs run
χ² / ndf 1.204e+04 / 38
p0 5475 ± 6.338
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

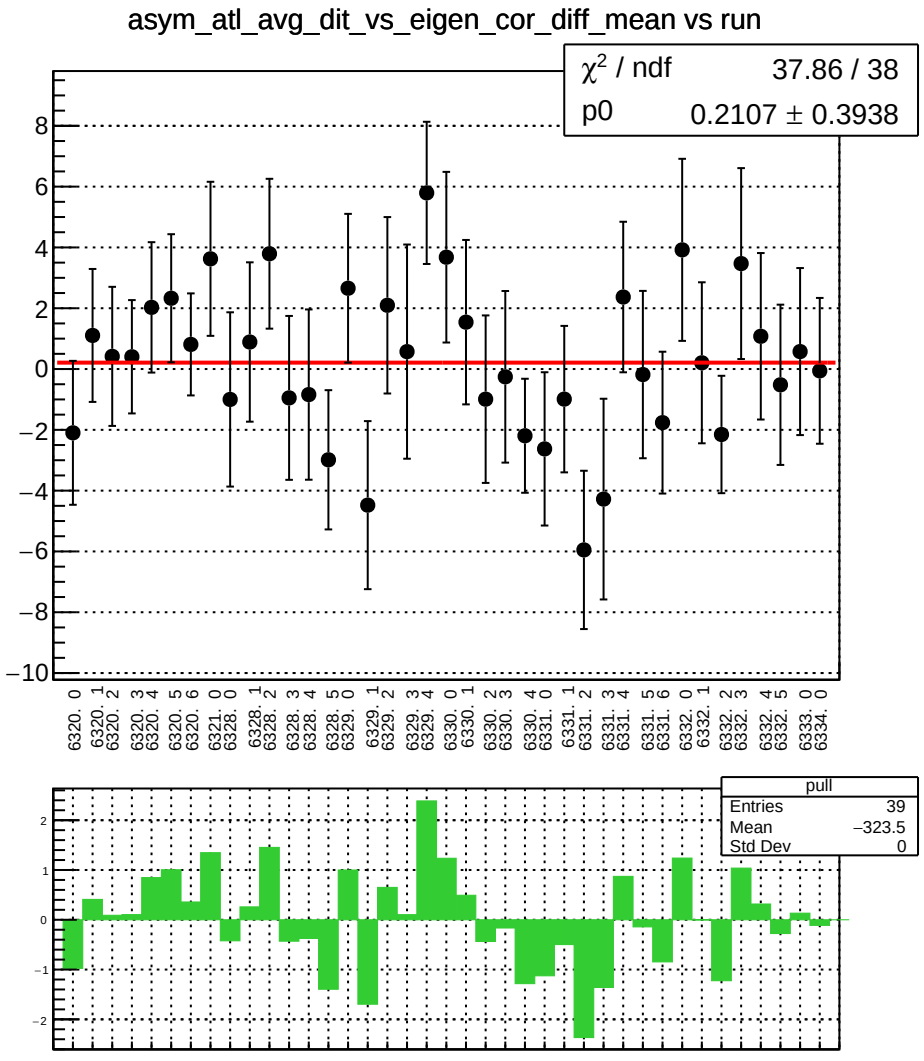

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 49.62 / 38
p0 −5.008e−13 ± 3.653e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.63
Std Dev 16.45
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1554
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

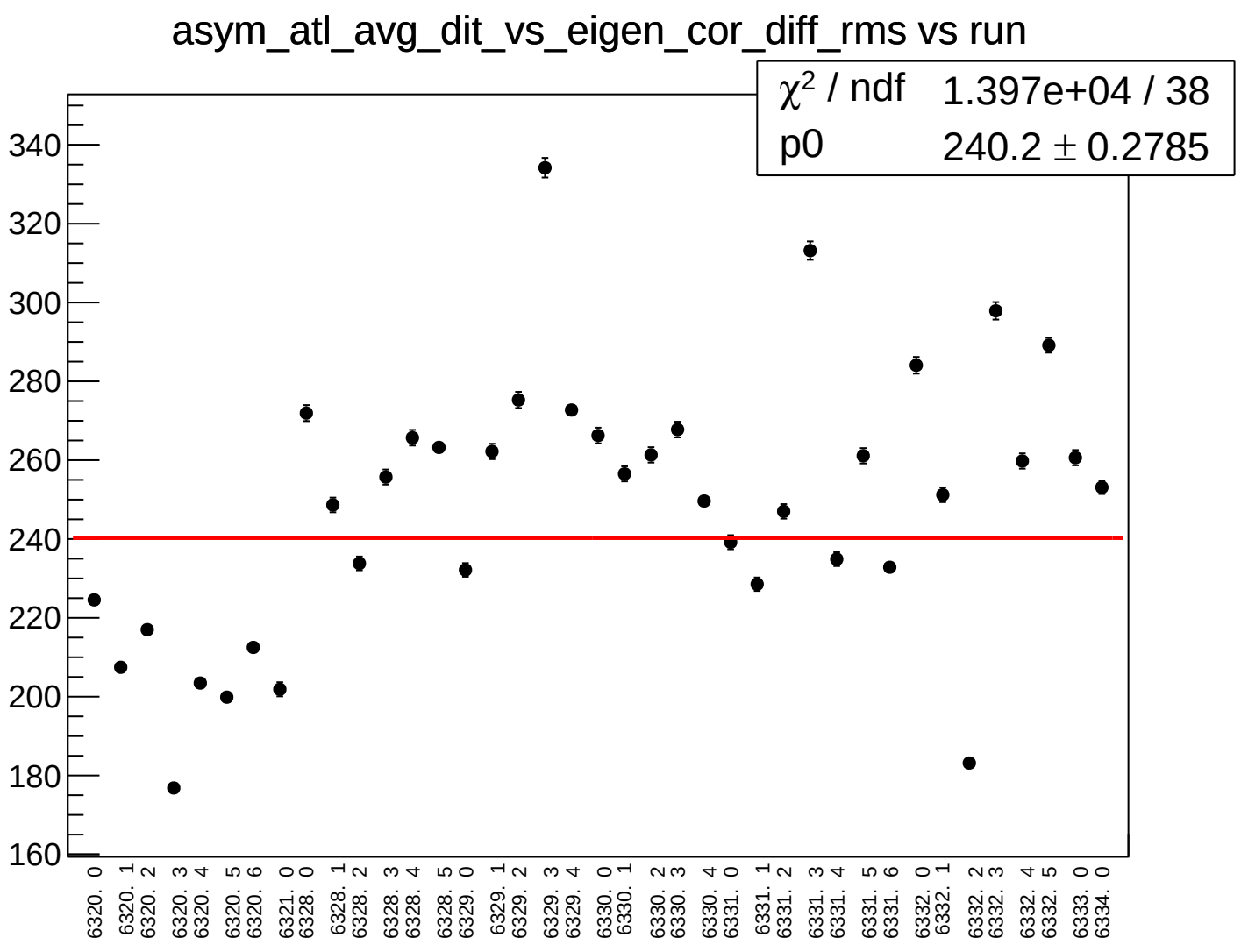

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.277e+05 / 38
p0 1.24e−10 ± 2.583e−13
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

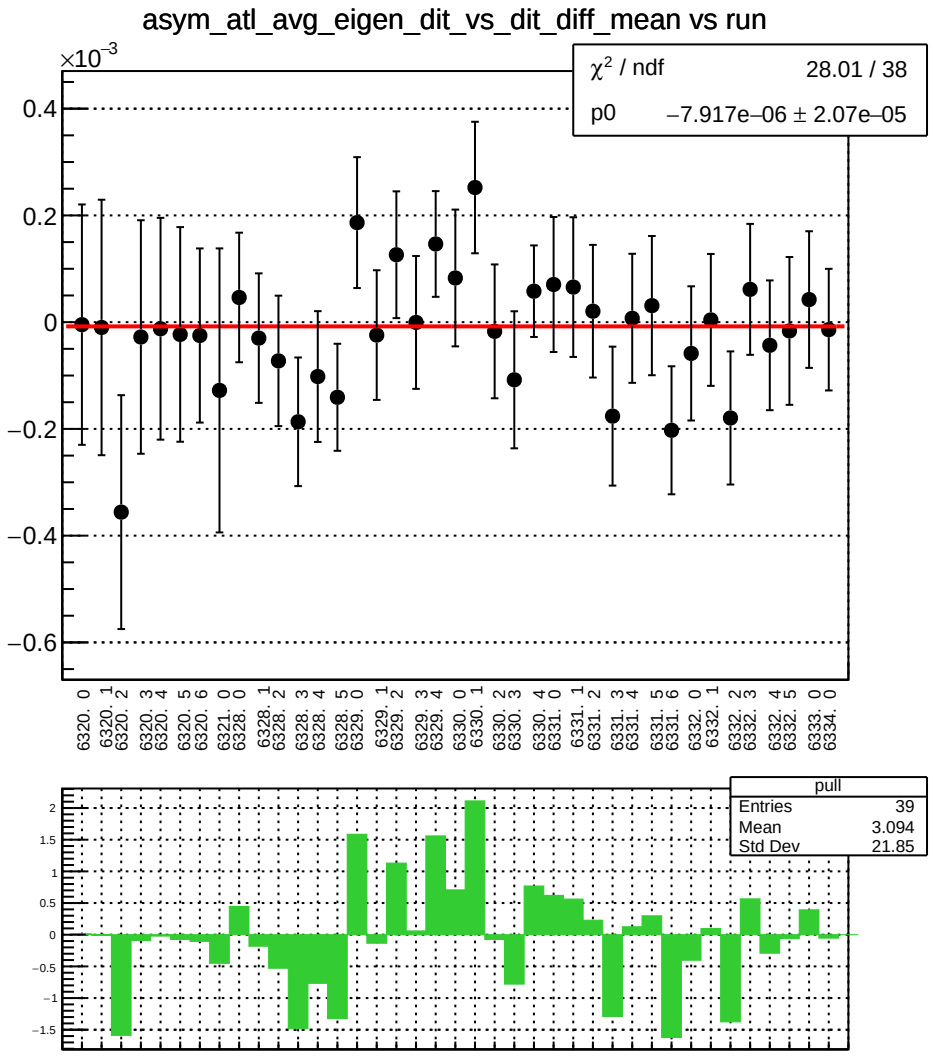

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.86 / 38
p0 0.2107 ± 0.3938
pull
Entries 39
Mean −323.5
Std Dev 0

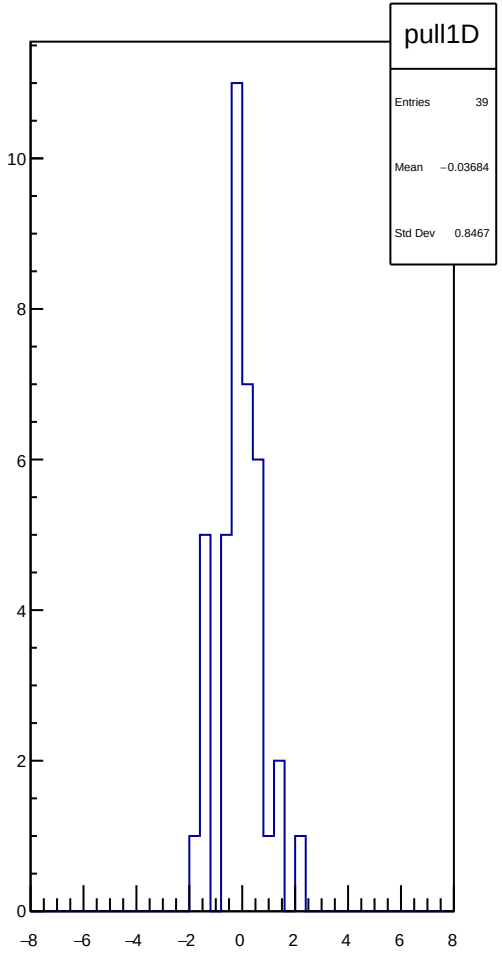

pull1D
Entries 39
Mean 0.005236
Std Dev 0.9852

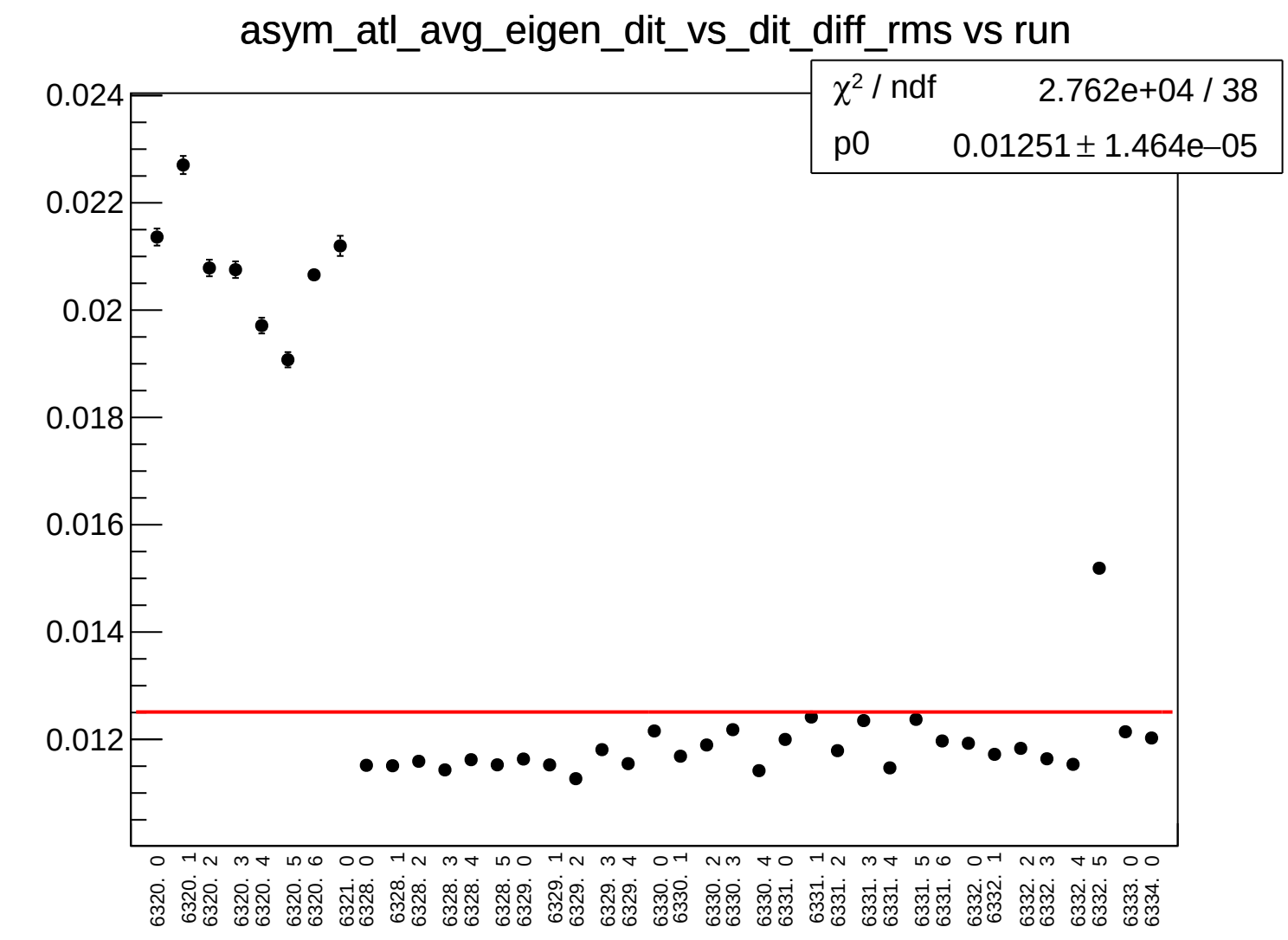

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 240.2 ± 0.2785
340
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

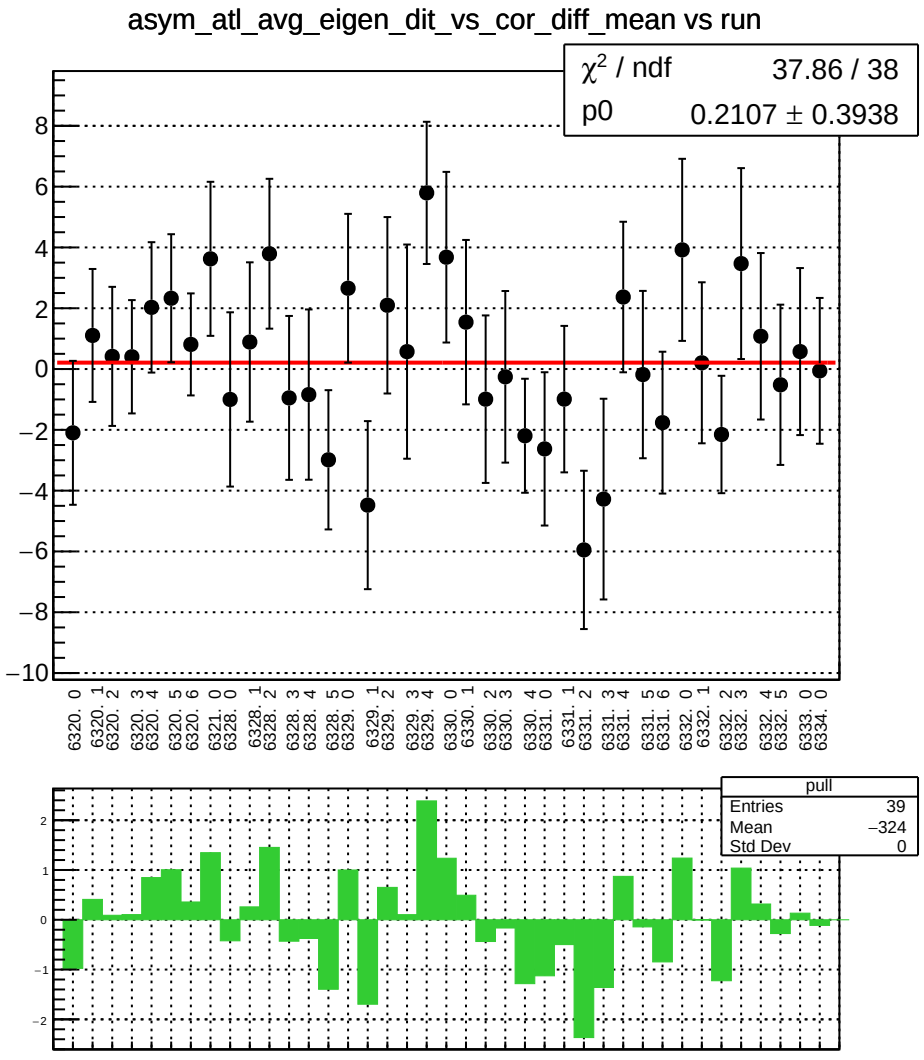

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.86 / 38
p0 0.2107 ± 0.3938
pull
Entries 39
Mean −323.5
Std Dev 0
pull1D
Entries 39
Mean 0.005236
Std Dev 0.9852

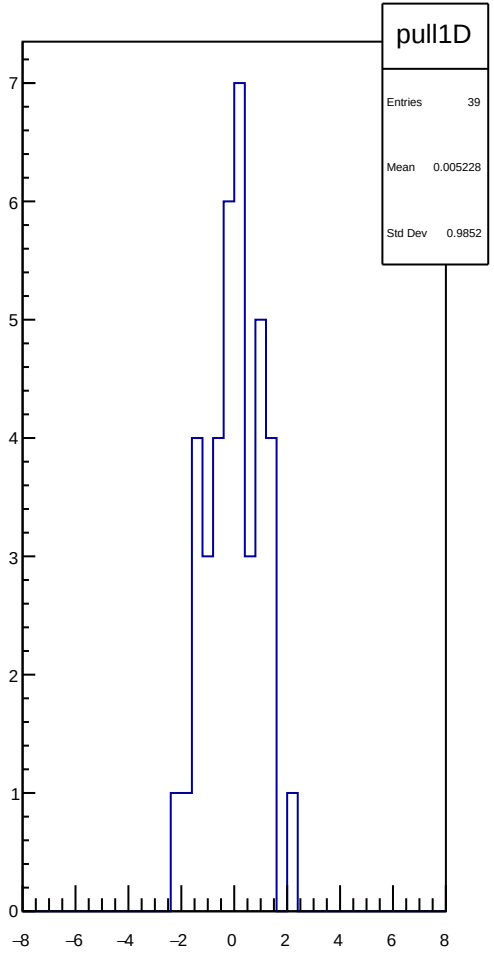

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 240.2 ± 0.2785
340
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

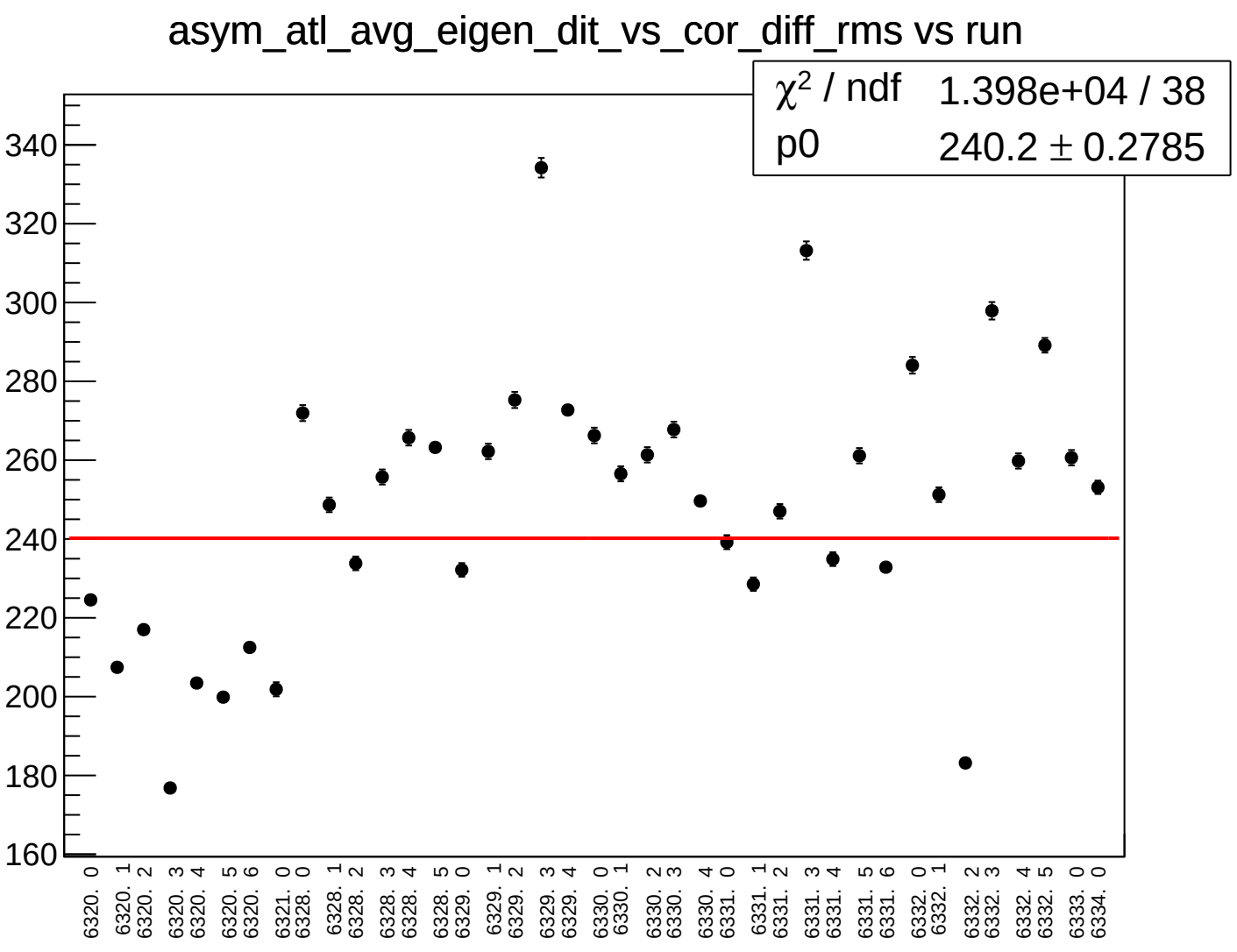

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.01 / 38
p0 −7.917e−06 ± 2.07e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.094
Std Dev 21.85
2
1.5
1
0.5
0
−0.5
−1
−1.5

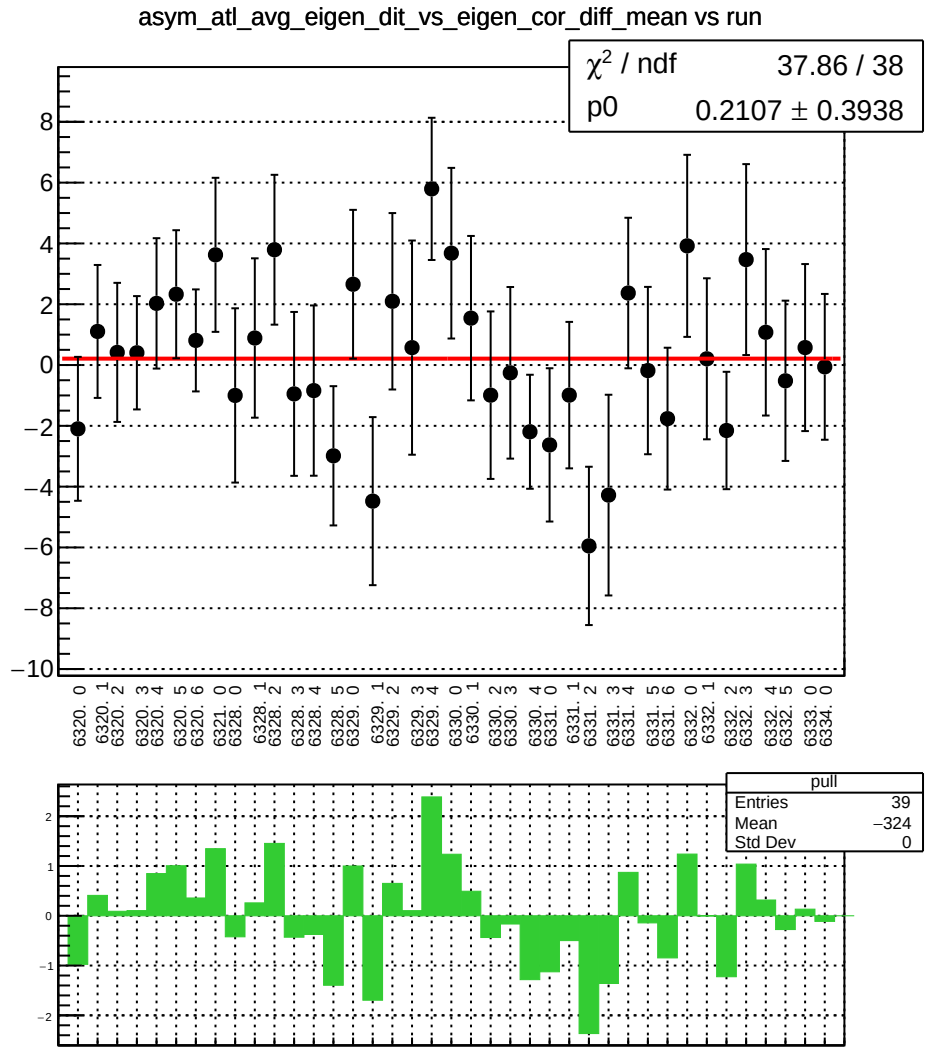

pull1D
Entries 39
Mean −0.03684
Std Dev 0.8467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

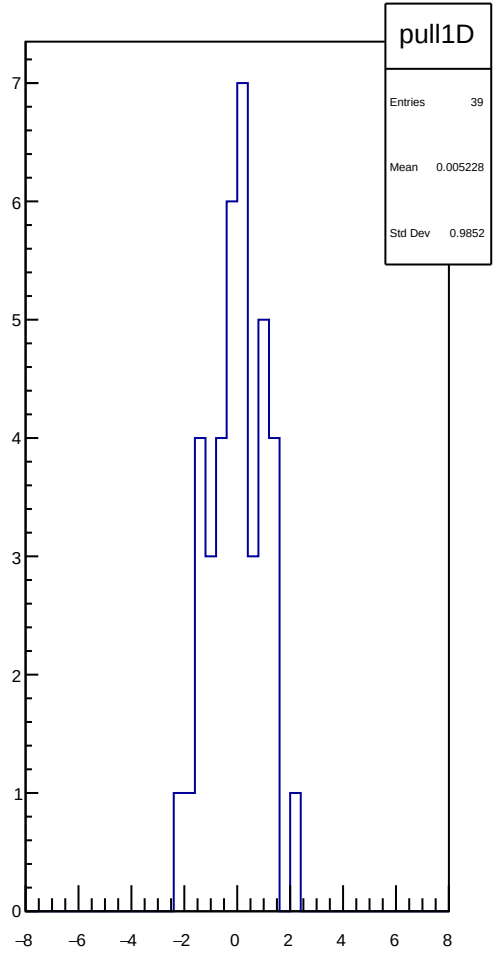

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.762e+04 / 38
p0 0.01251 ± 1.464e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

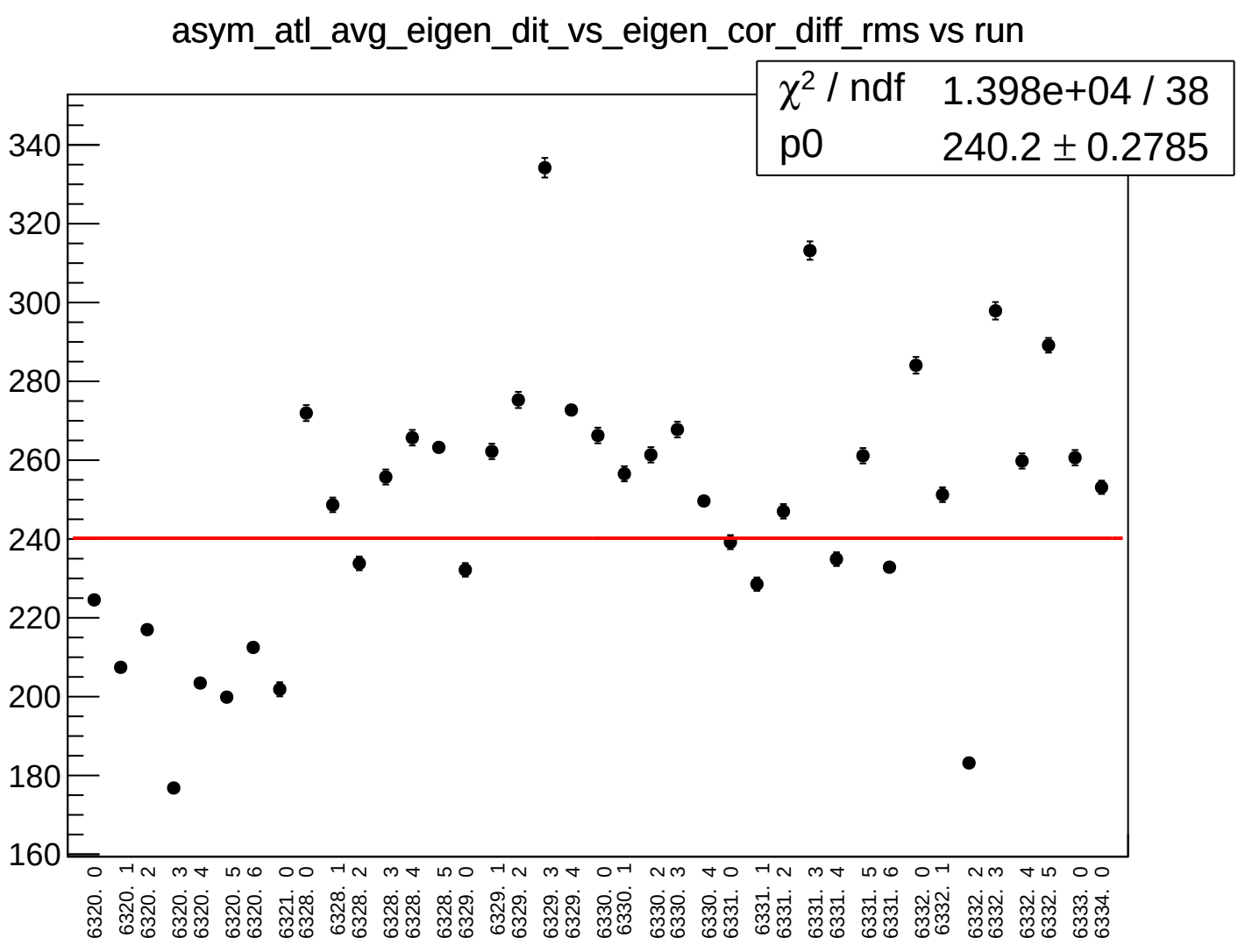

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.86 / 38
p0 0.2107 ± 0.3938
pull
Entries 39
Mean −324
Std Dev 0

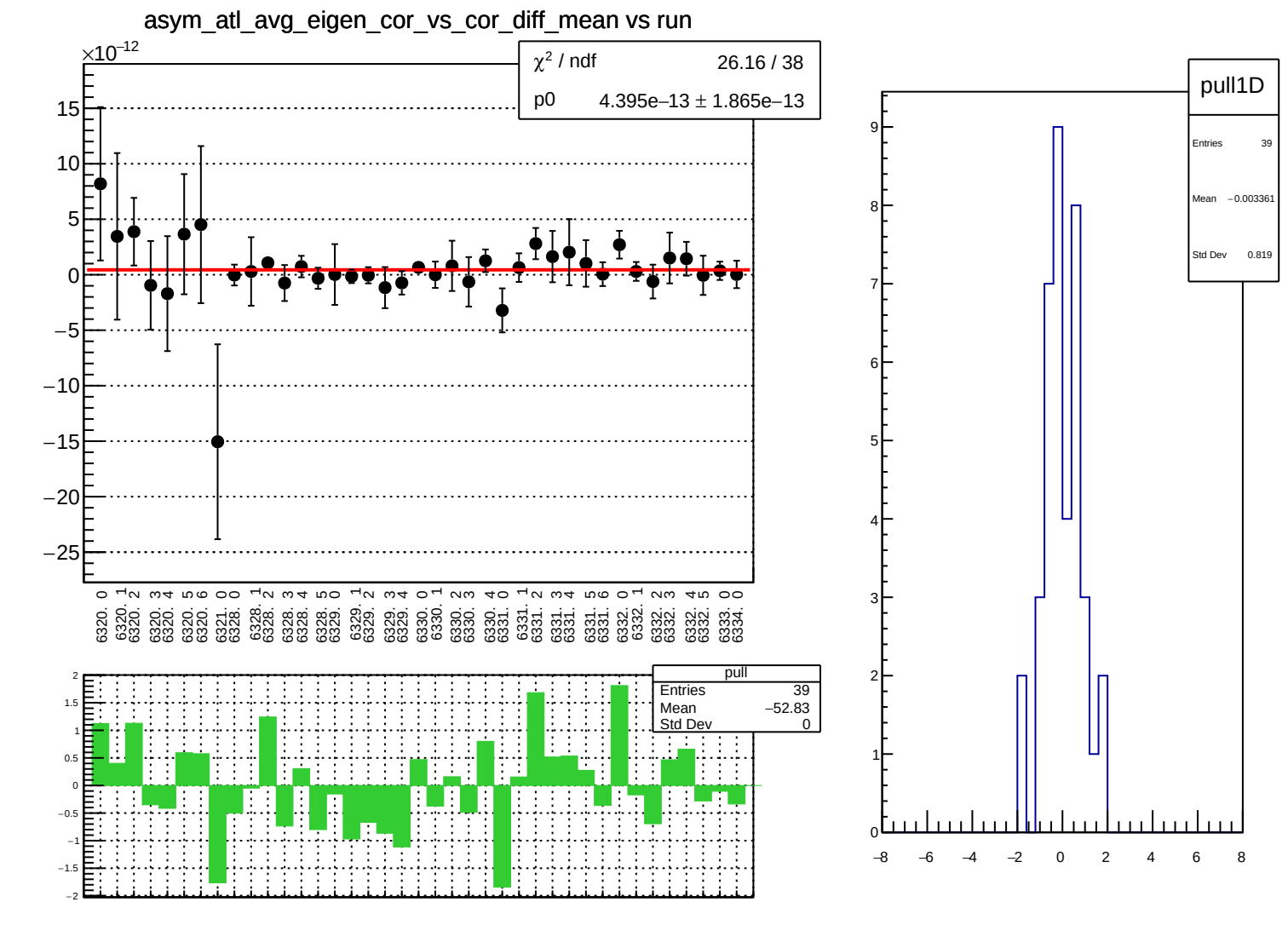

pull1D
Entries 39
Mean 0.005228
Std Dev 0.9852

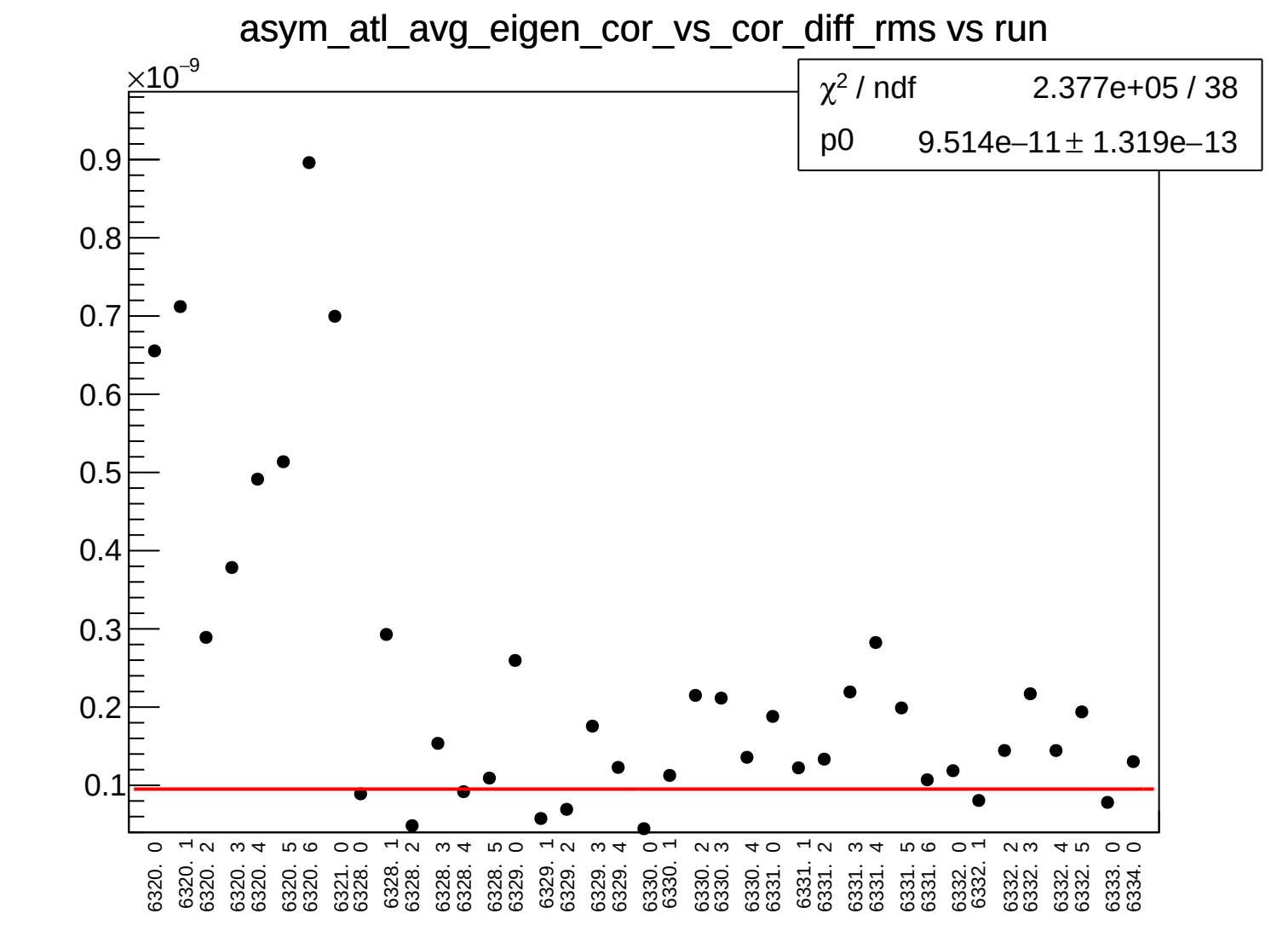

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.398e+04 / 38
p0 240.2 ± 0.2785
340
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

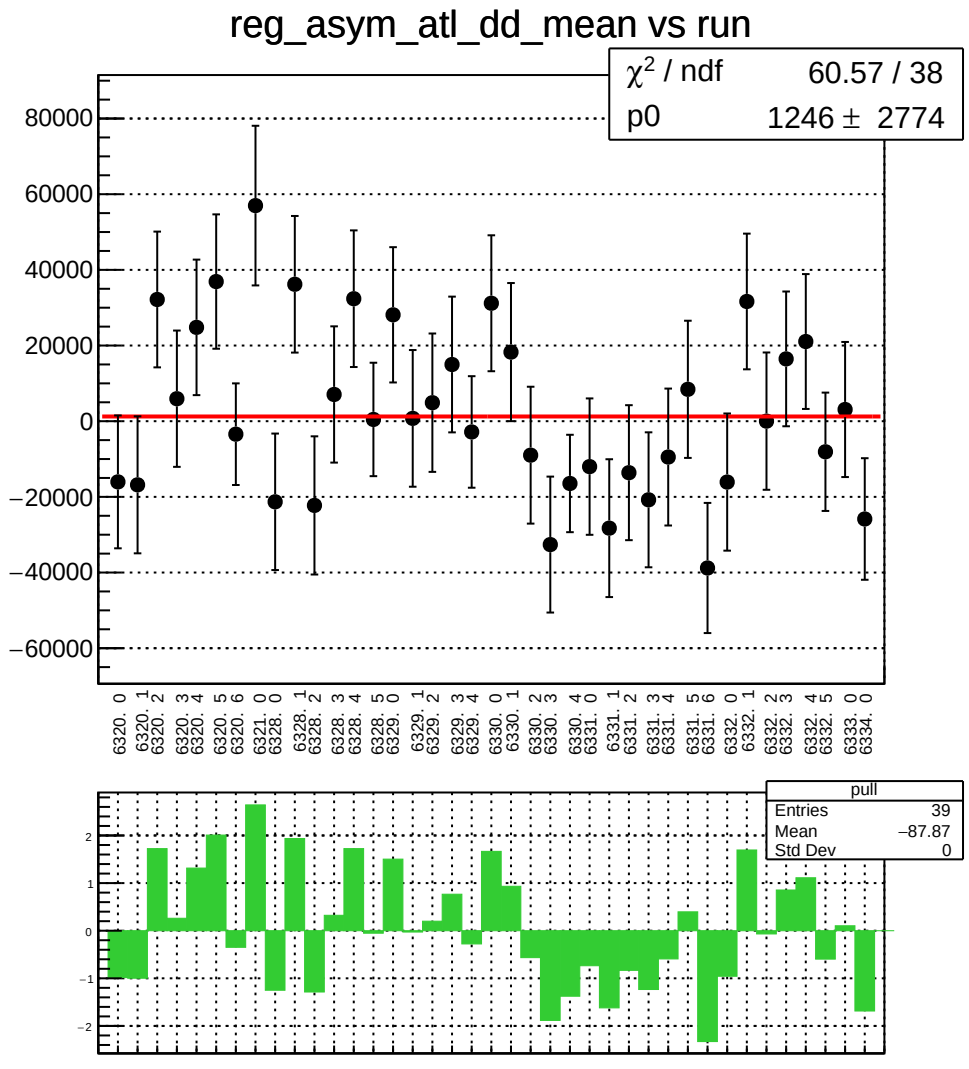

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.86 / 38
p0 0.2107 ± 0.3938
pull
Entries 39
Mean −324
Std Dev 0

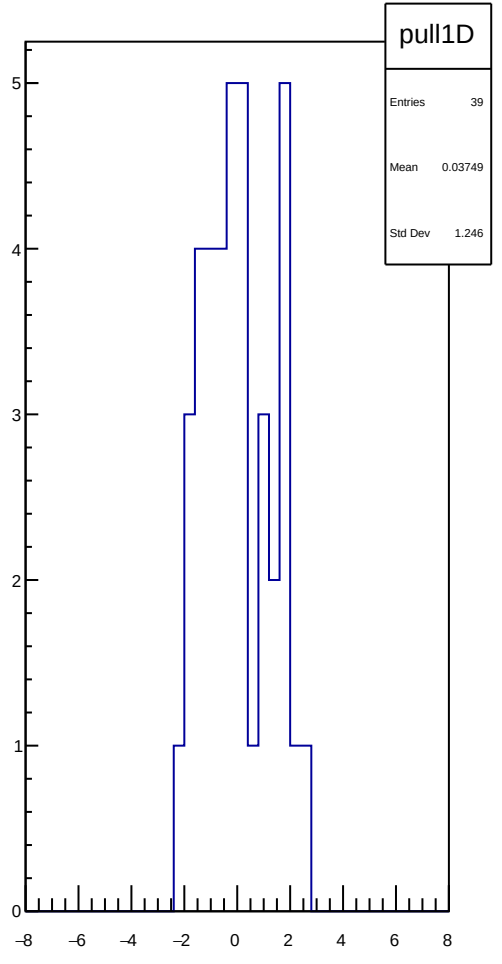

pull1D
Entries 39
Mean 0.005228
Std Dev 0.9852


asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.398e+04 / 38
p0 240.2 ± 0.2785
340
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.16 / 38
p0 4.395e−13 ± 1.865e−13
15
10
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.003361
Std Dev 0.819
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.377e+05 / 38
p0 9.514e−11 ± 1.319e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


reg_asym_atl_dd_mean vs run
χ² / ndf 60.57 / 38
p0 1246 ± 2774
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.87
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03749
Std Dev 1.246
5
4
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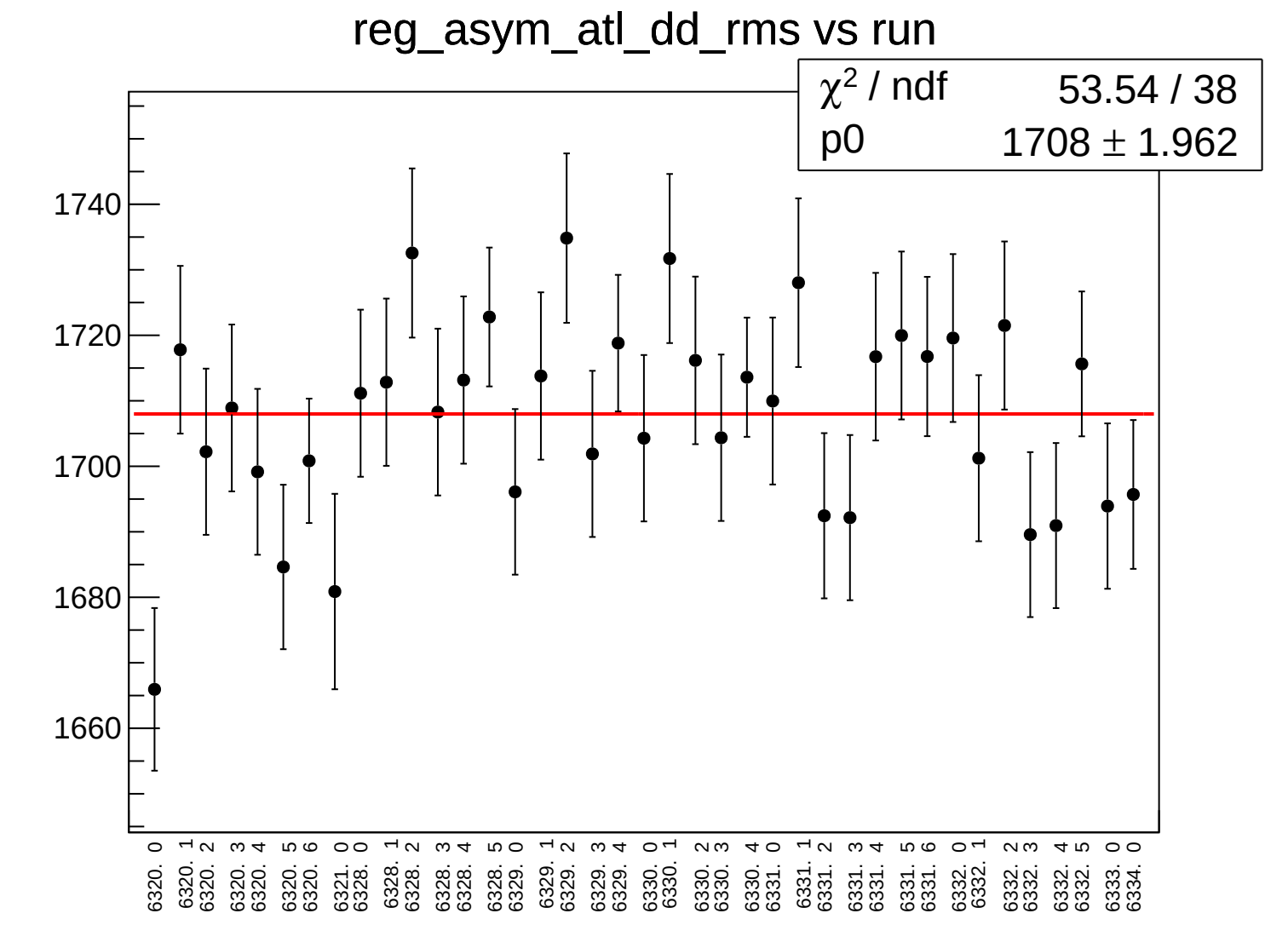
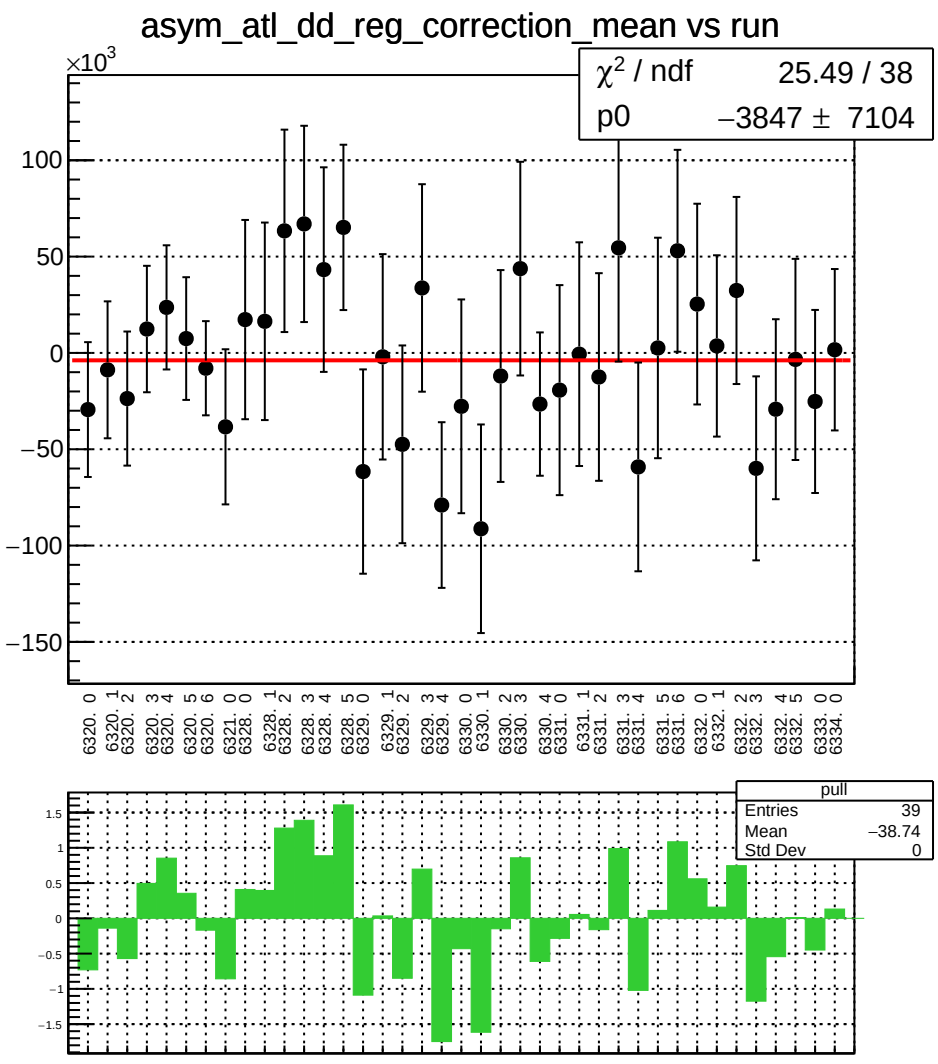
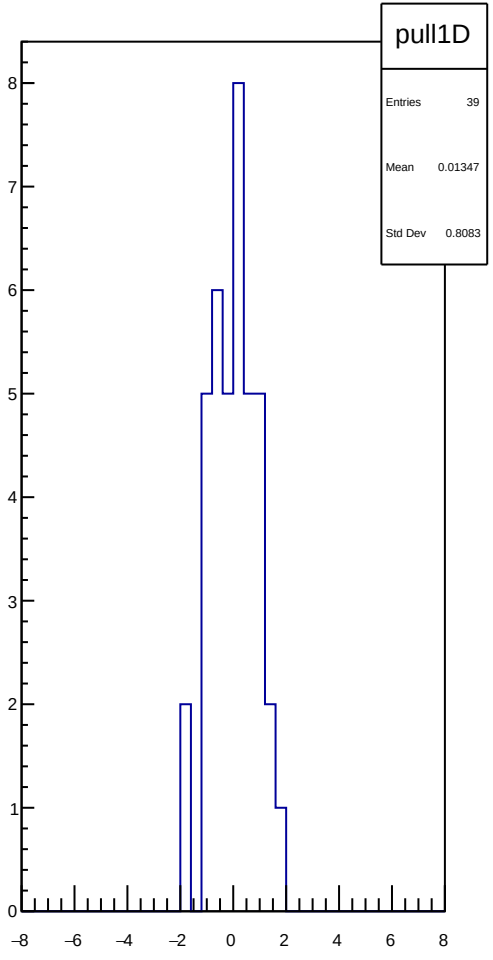
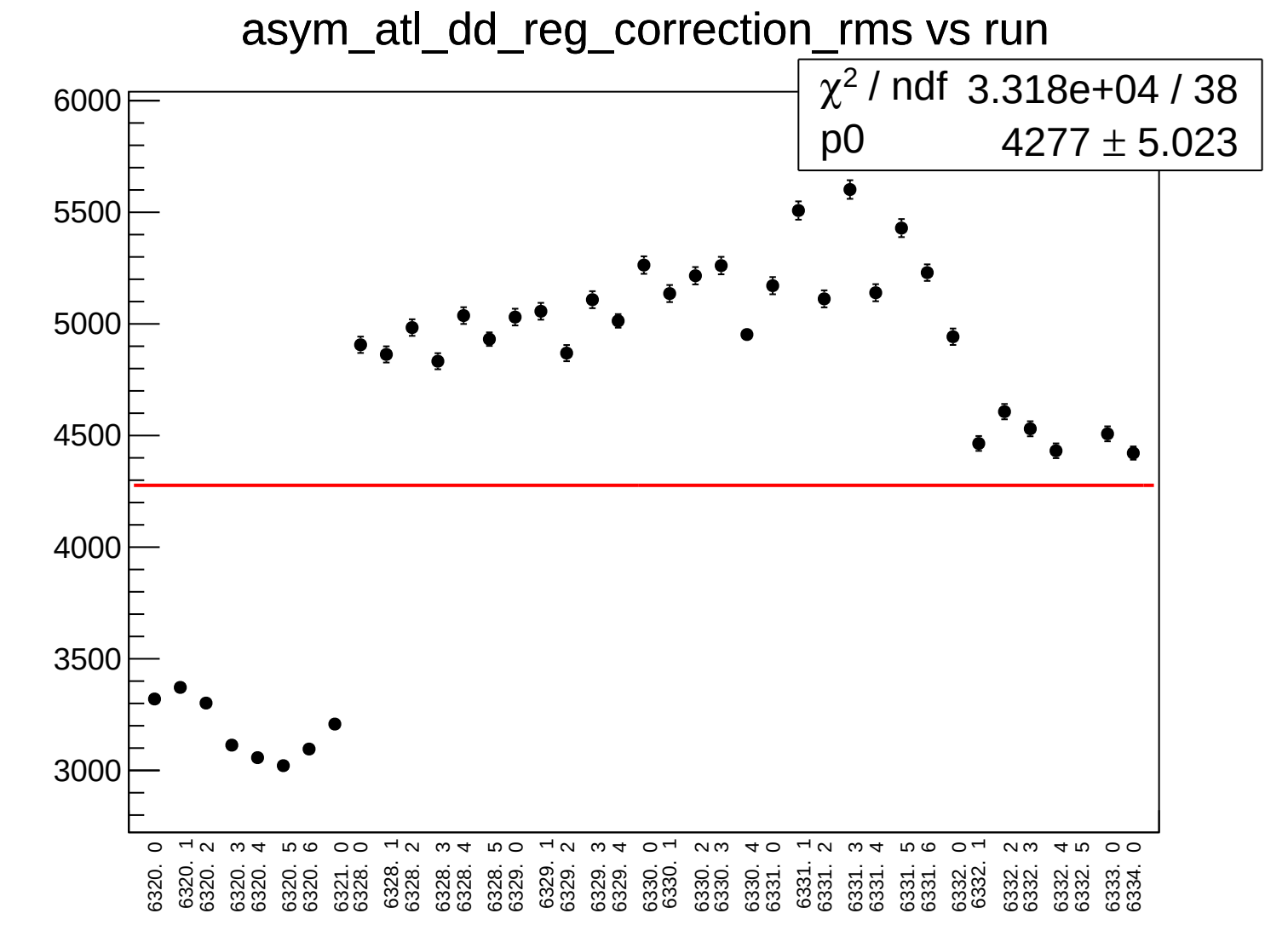
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ² / ndf 53.54 / 38
p0 1708 ± 1.962
1740
1720
1700
1680
1660
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 25.49 / 38
p0 −3847 ± 7104
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01347
Std Dev 0.8083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3.318e+04 / 38
p0 4277 ± 5.023
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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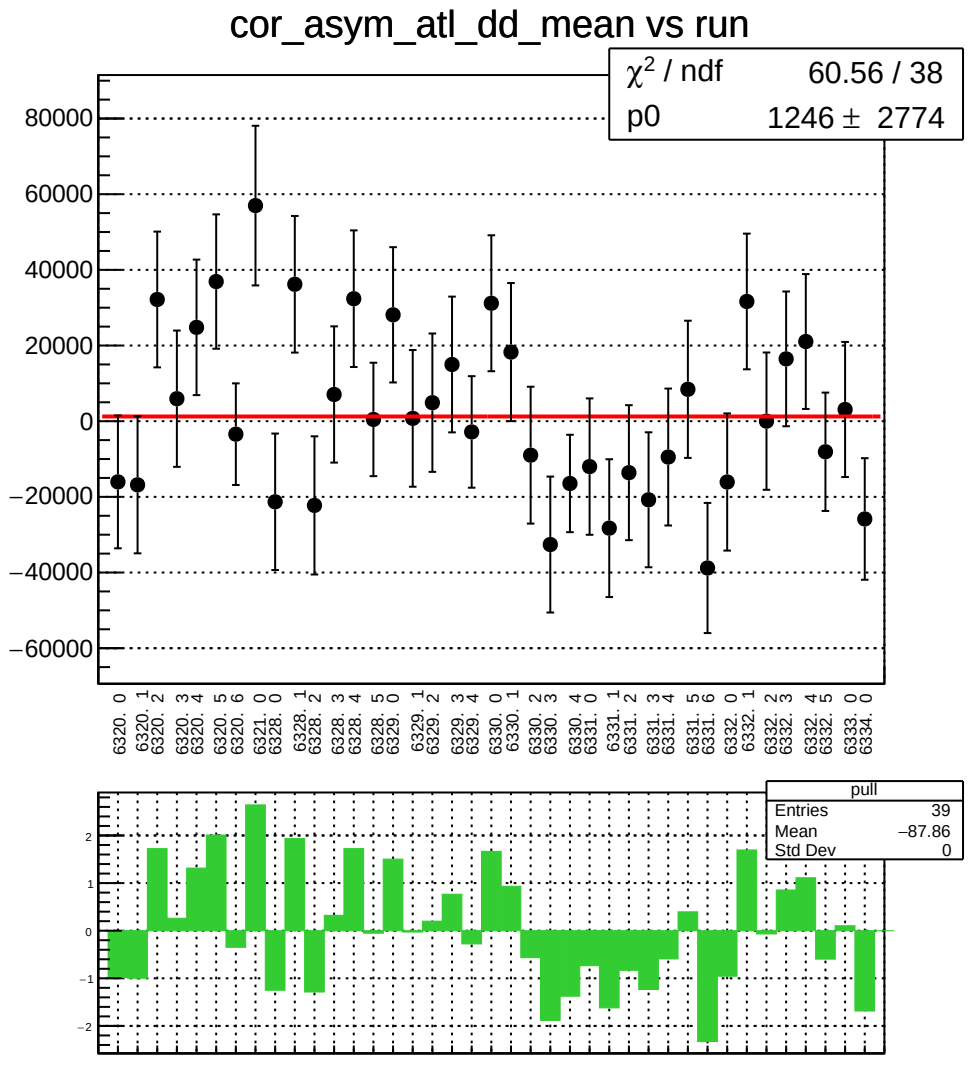
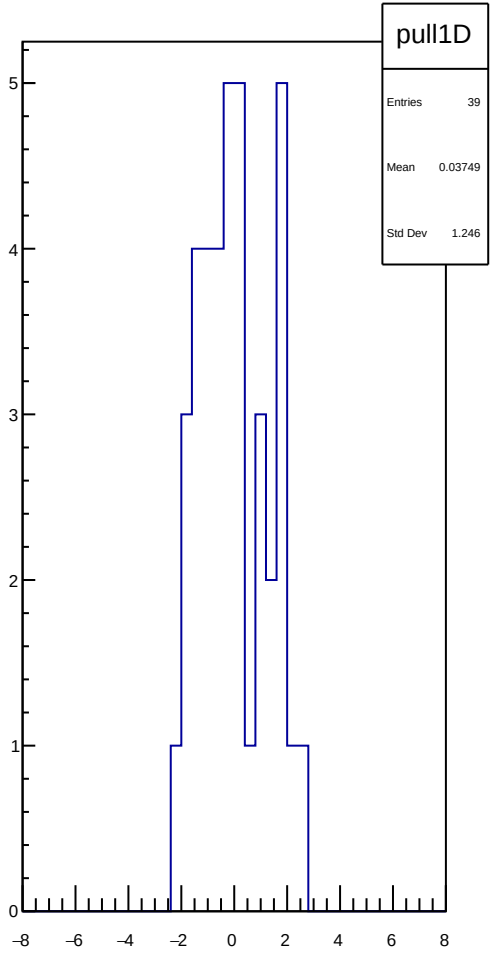
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_atl_dd_mean vs run
χ² / ndf 60.56 / 38
p0 1246 ± 2774
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.86
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03749
Std Dev 1.246
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4
3
2
1
0
−8
−6
−4
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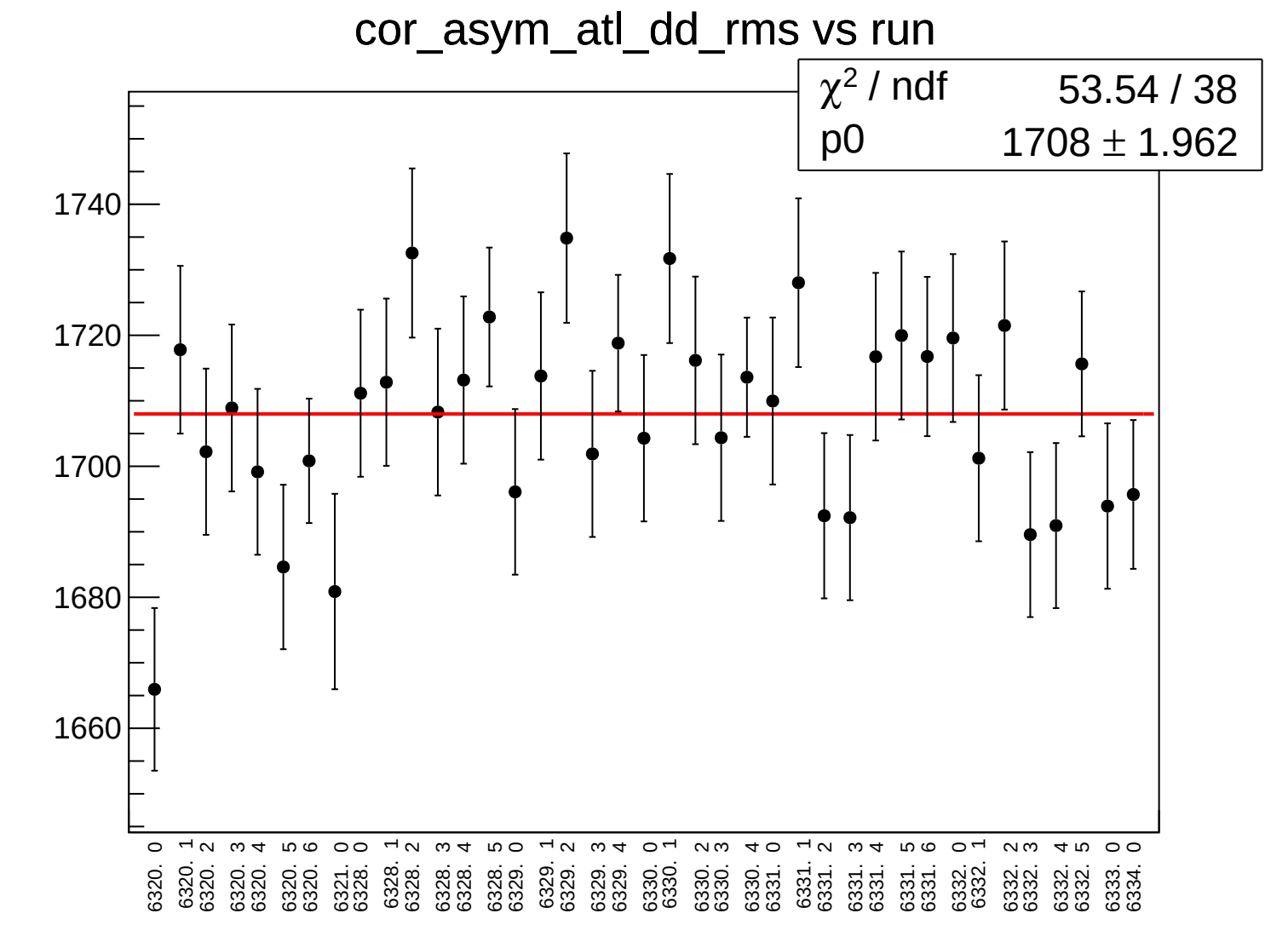
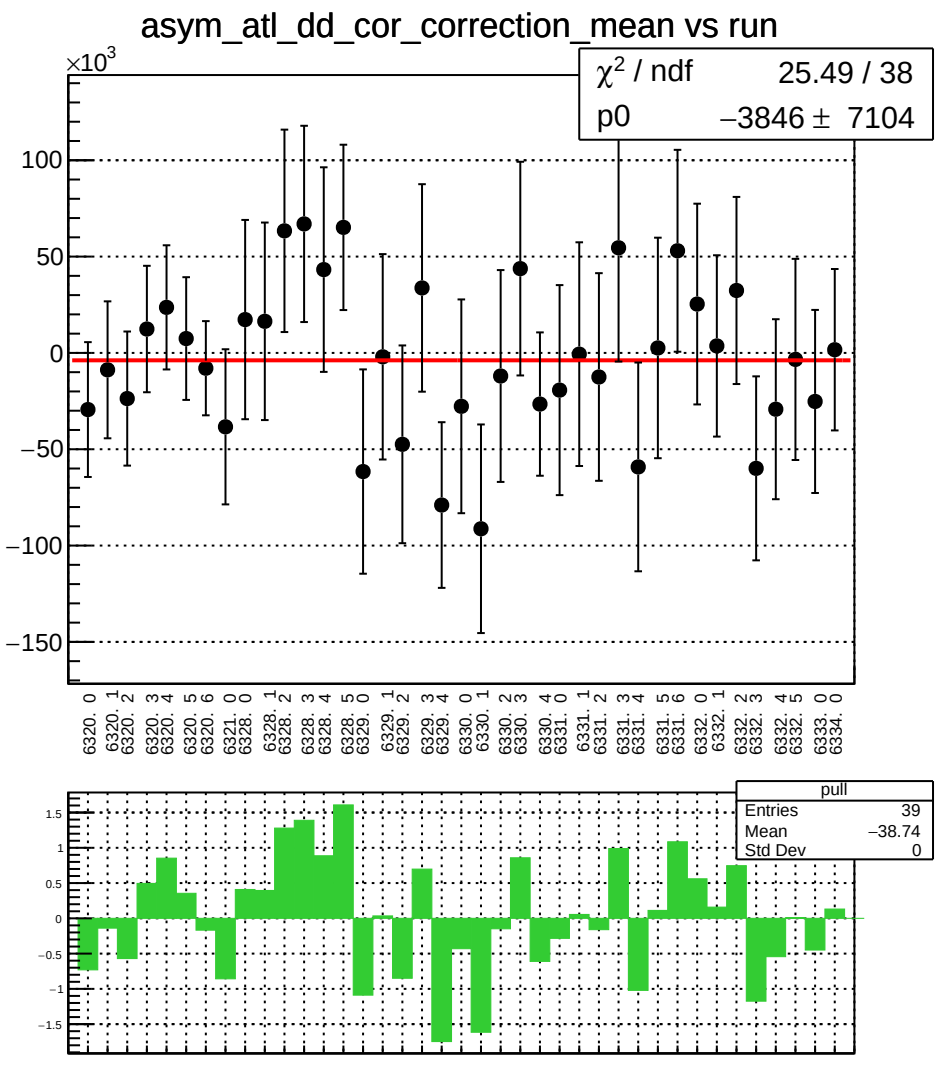
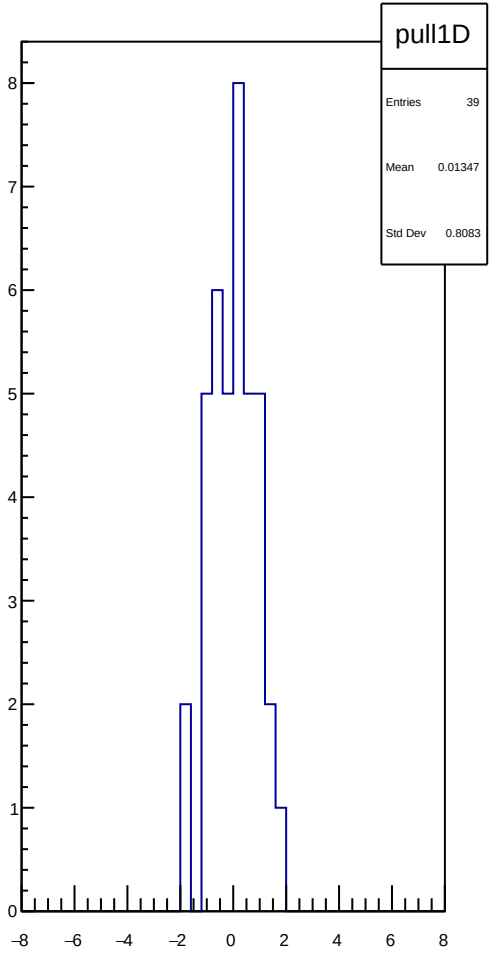
2
4
6
8


cor_asym_atl_dd_rms vs run
χ² / ndf 53.54 / 38
p0 1708 ± 1.962
1740
1720
1700
1680
1660
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 25.49 / 38
p0 −3846 ± 7104
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01347
Std Dev 0.8083
8
7
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5
4
3
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1
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−8
−6
−4
−2
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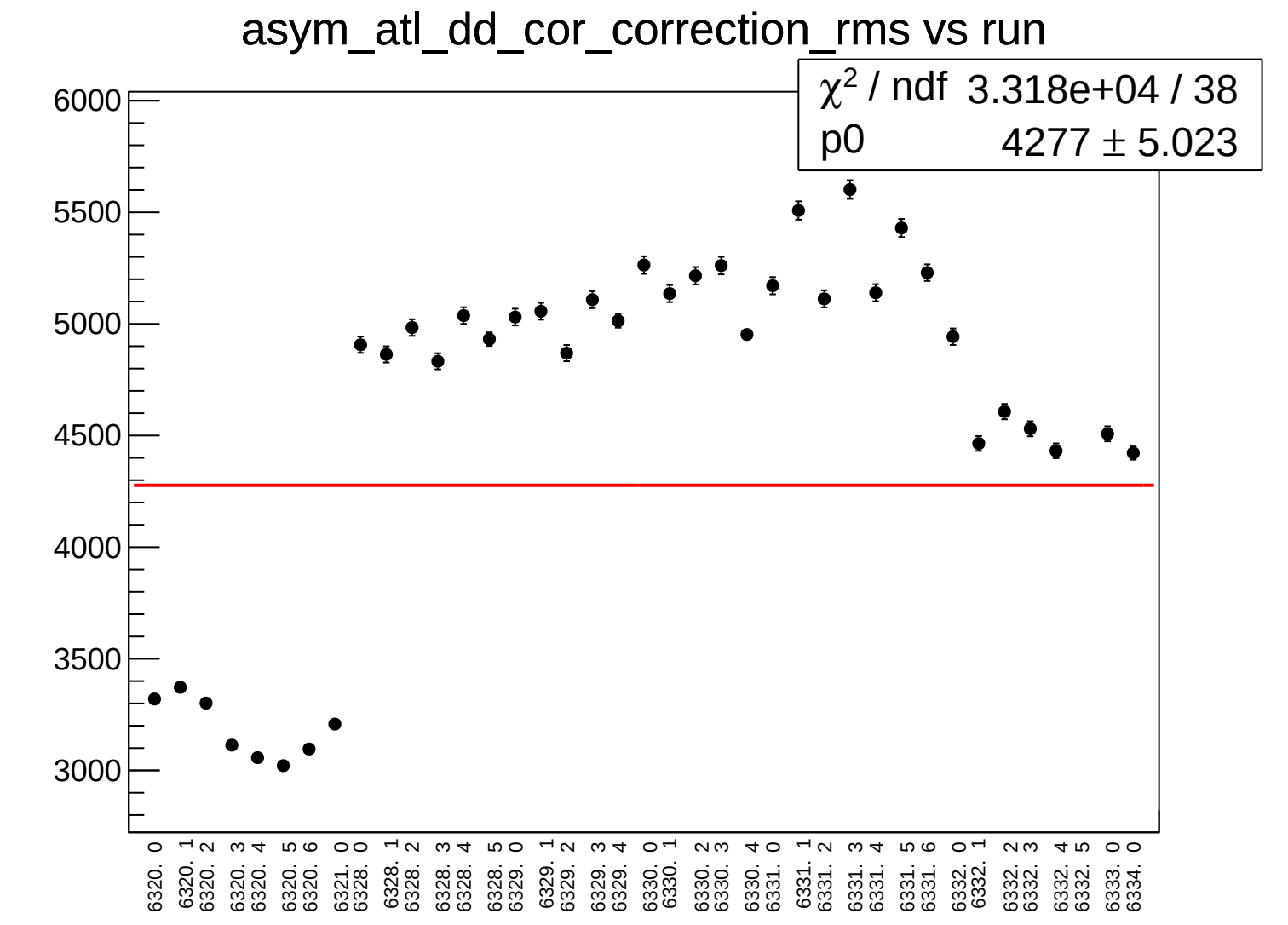
2
4
6
8


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3.318e+04 / 38
p0 4277 ± 5.023
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
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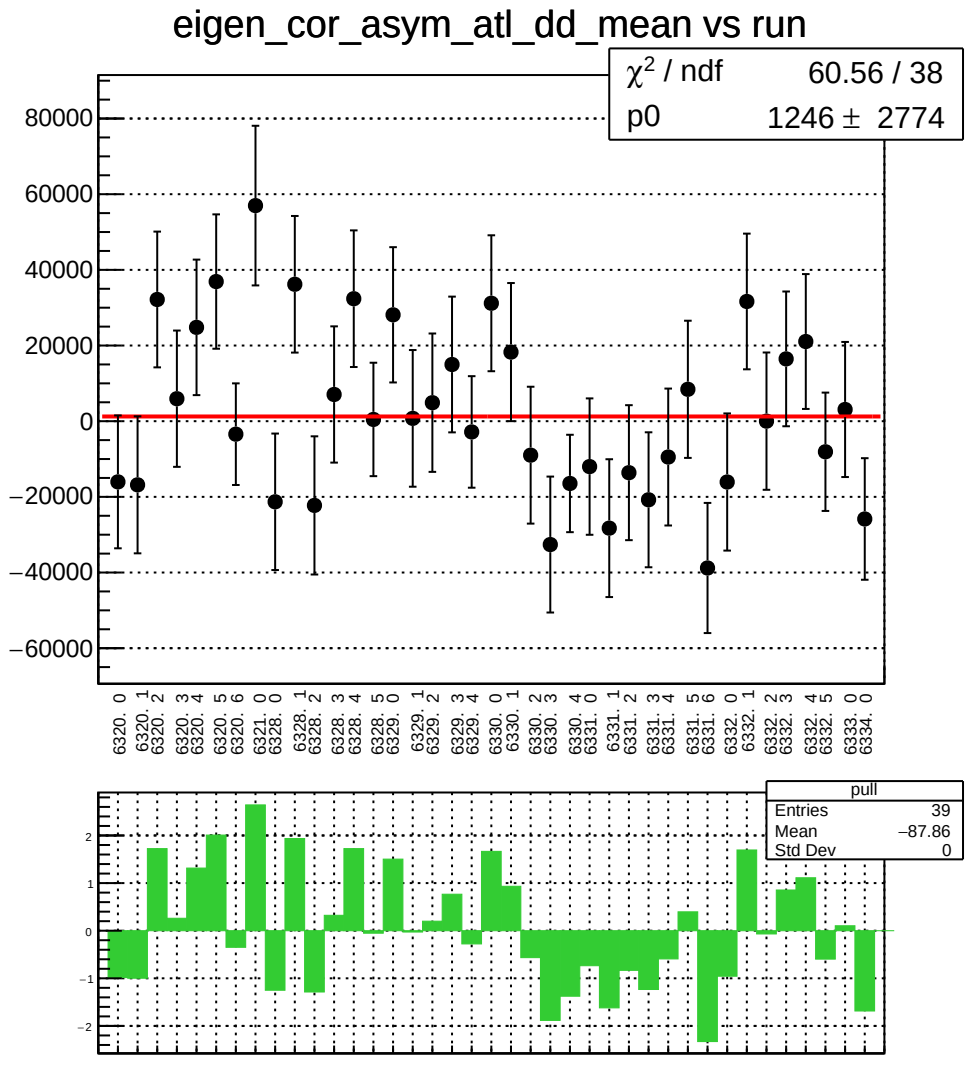
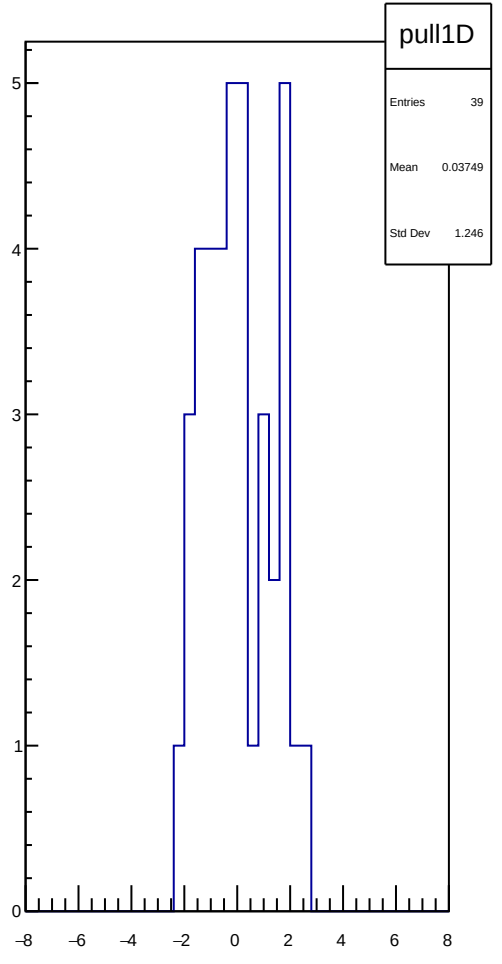

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 60.56 / 38
p0 1246 ± 2774
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.86
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03749
Std Dev 1.246
5
4
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0
−8
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−4
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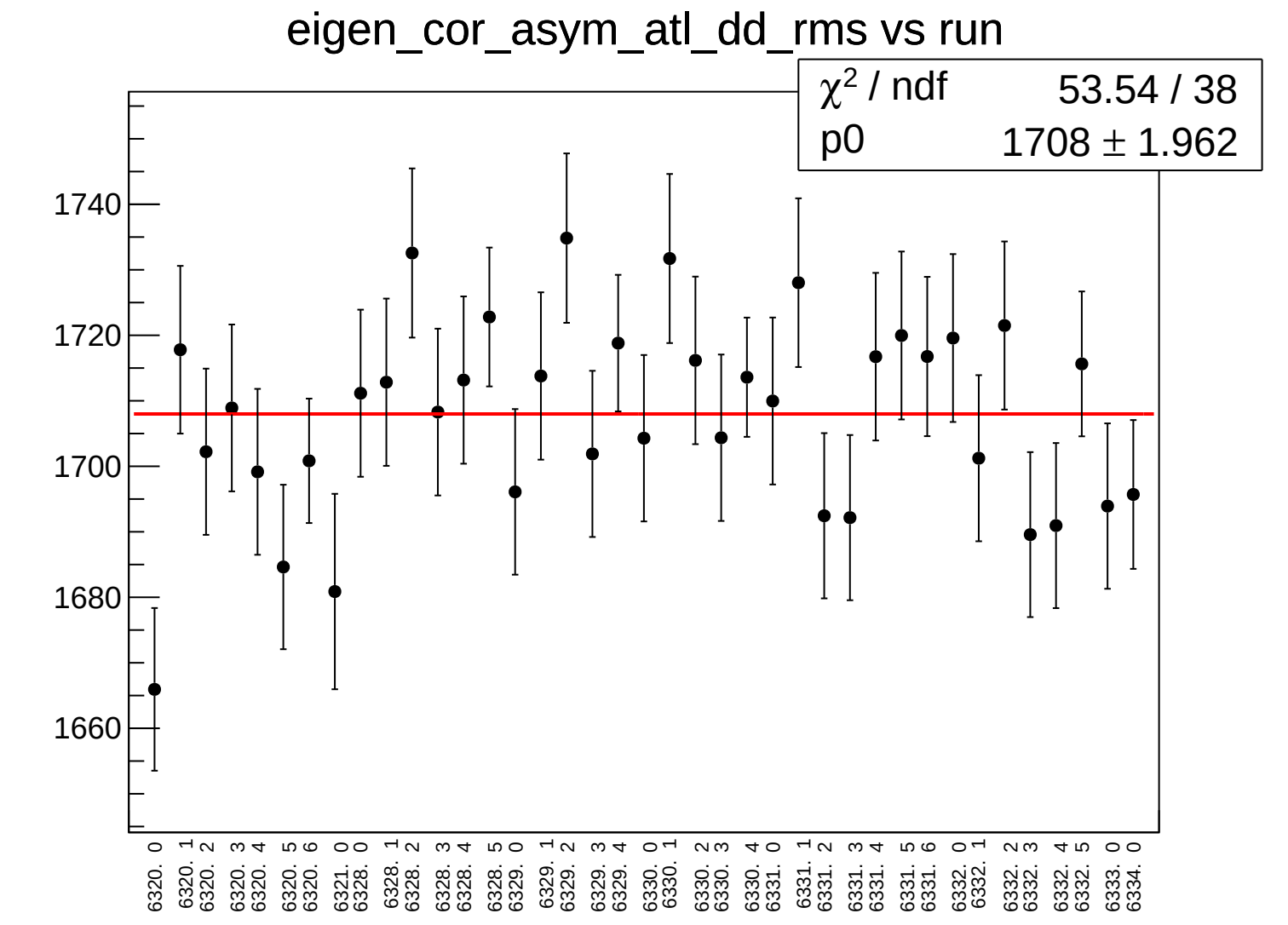
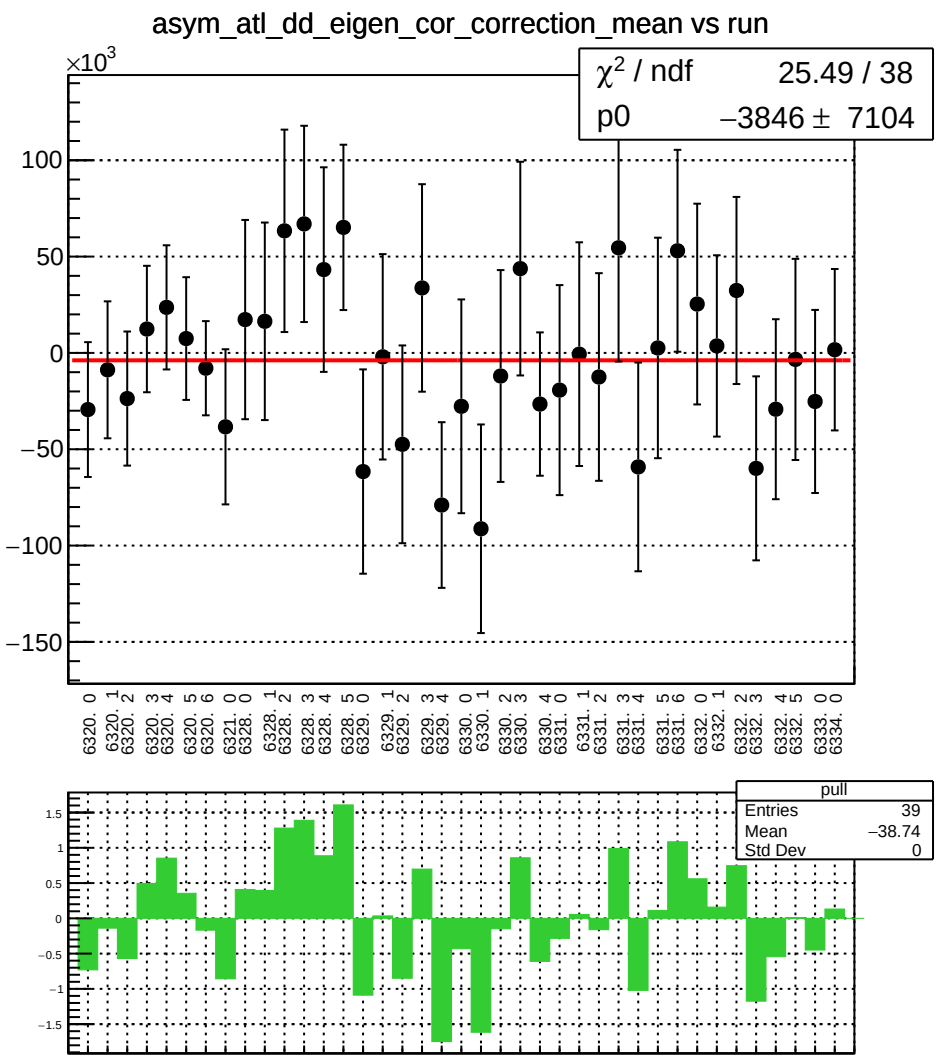
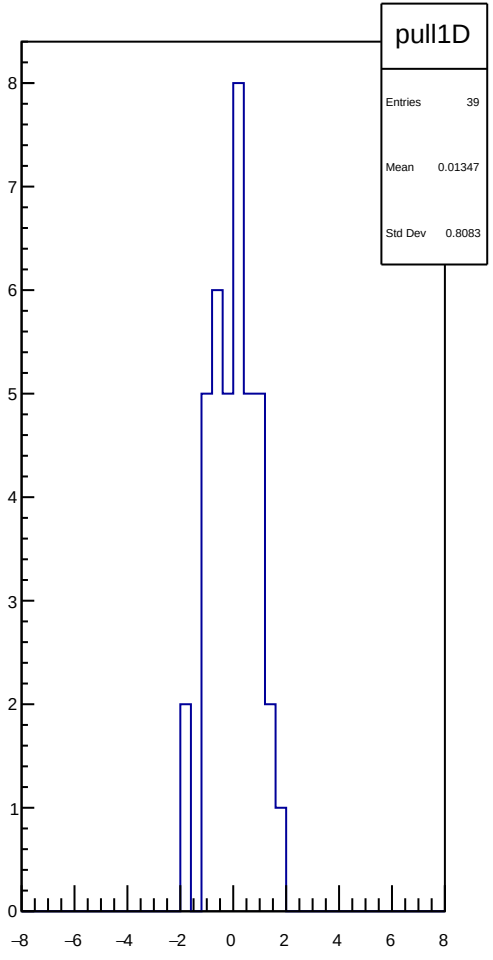
2
4
6
8


eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 53.54 / 38
p0 1708 ± 1.962
1740
1720
1700
1680
1660
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.49 / 38
p0 −3846 ± 7104
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01347
Std Dev 0.8083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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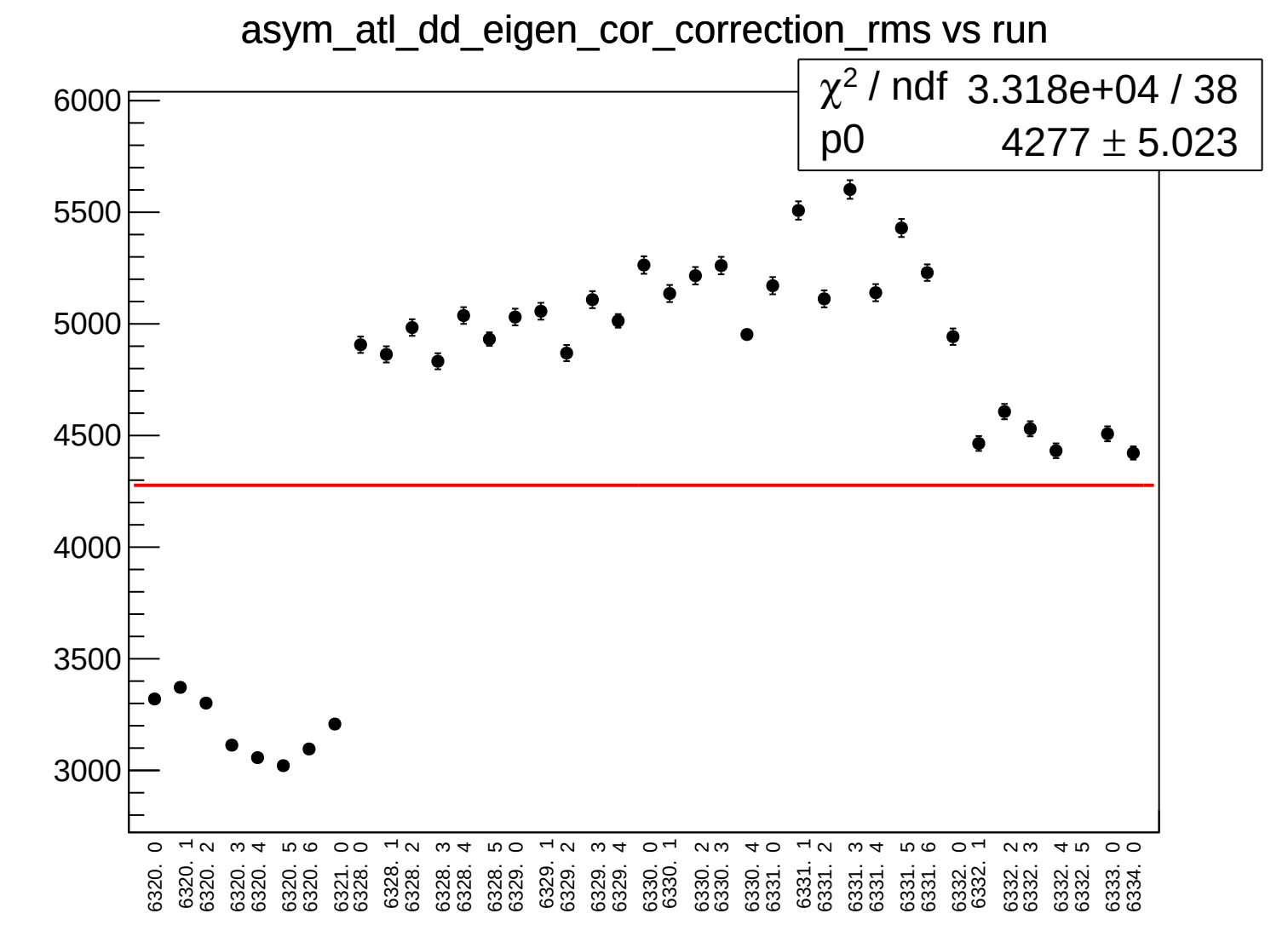
2
4
6
8


asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.318e+04 / 38
p0 4277 ± 5.023
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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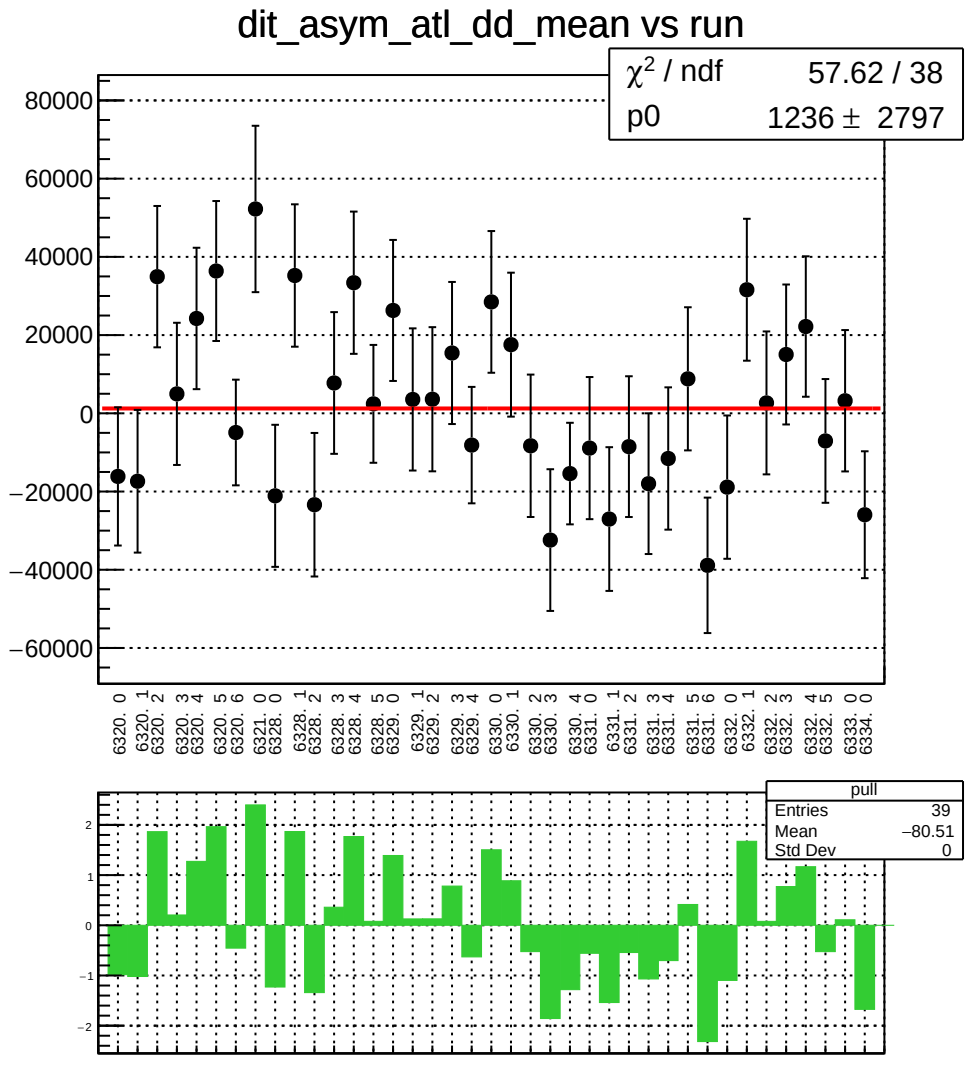
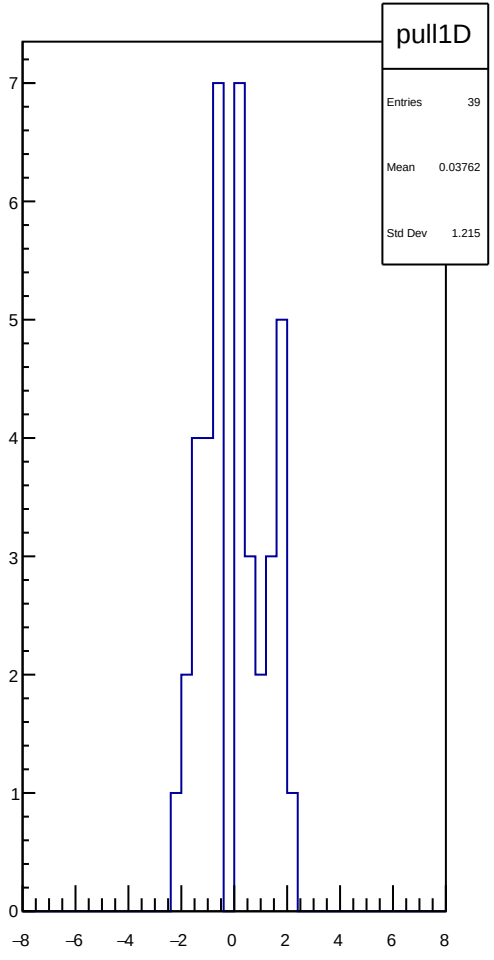
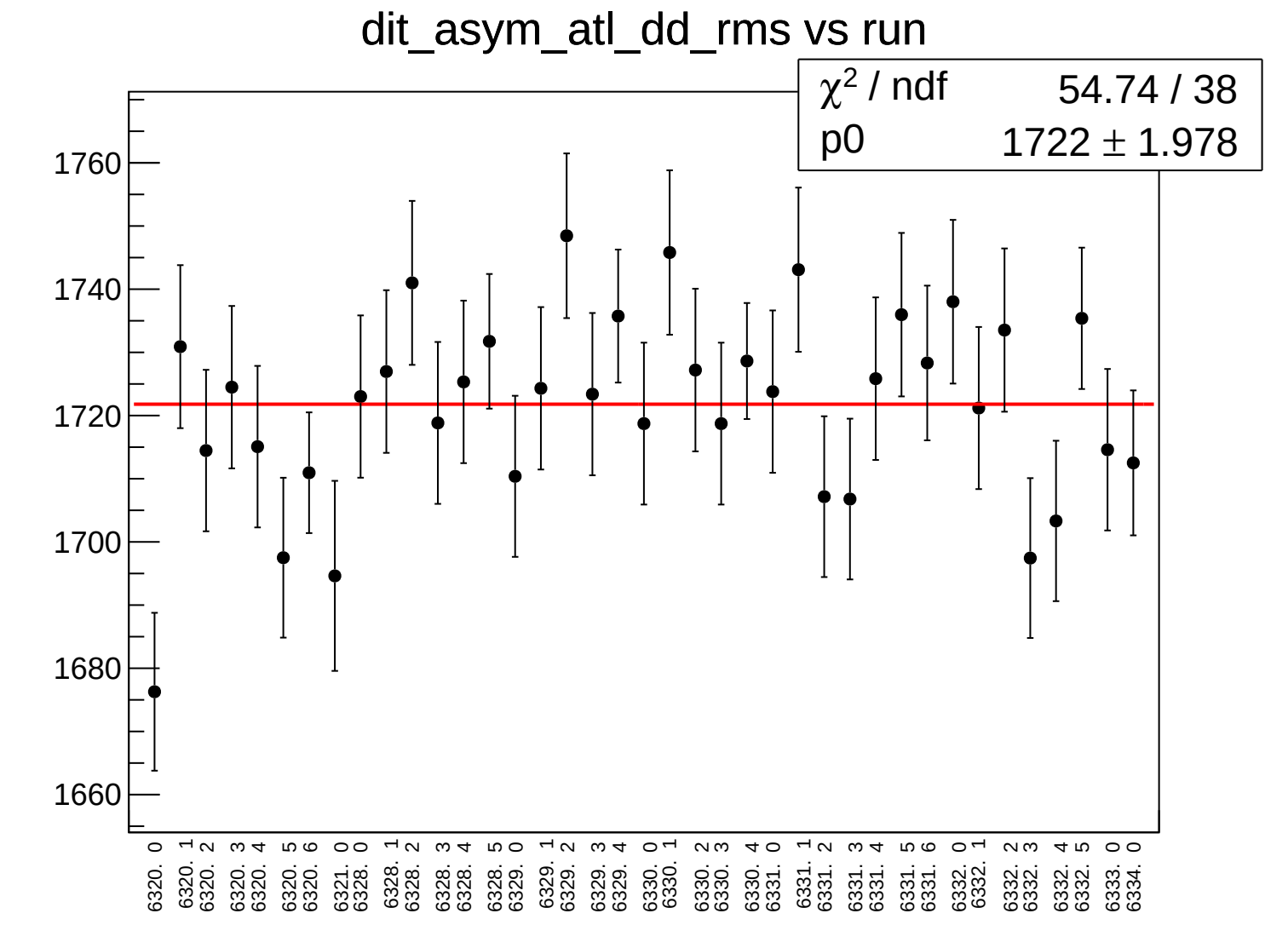
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_atl_dd_mean vs run
χ² / ndf 57.62 / 38
p0 1236 ± 2797
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −80.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03762
Std Dev 1.215
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 54.74 / 38
p0 1722 ± 1.978
1760
1740
1720
1700
1680
1660
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6331. 6
6332. 0
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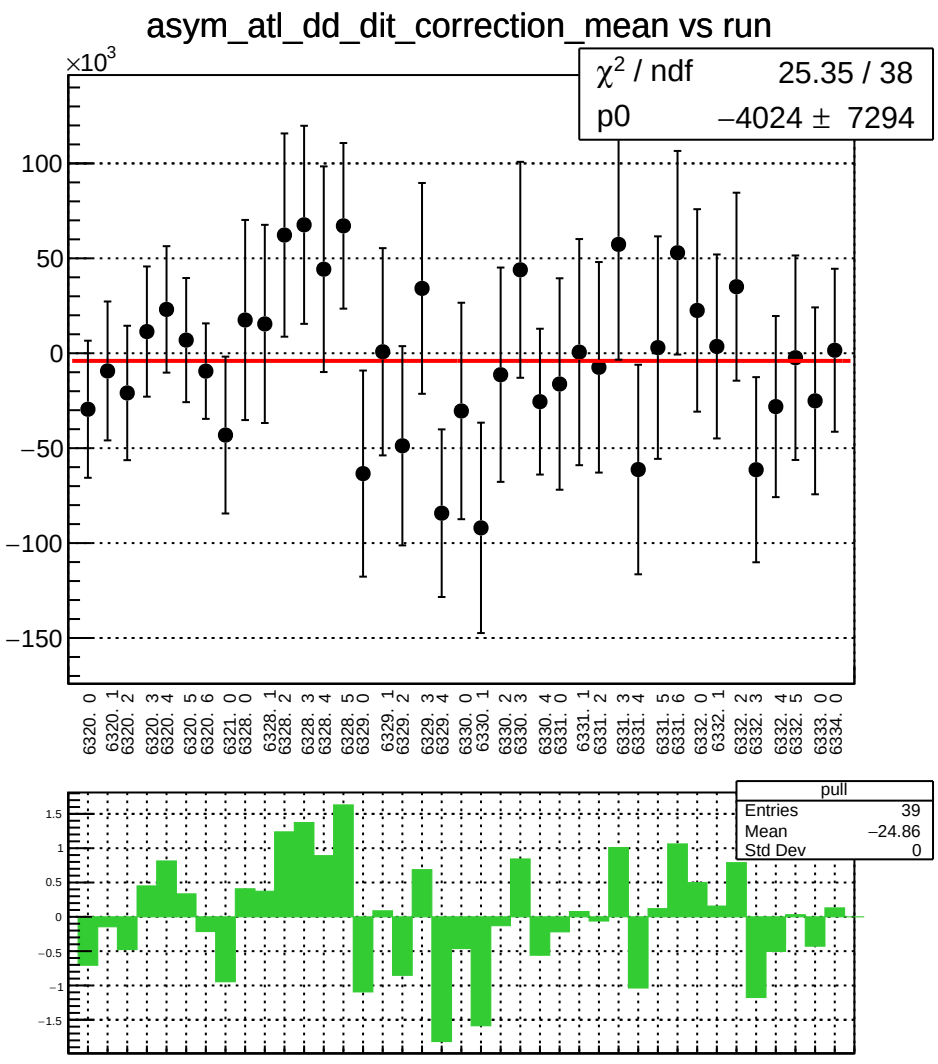
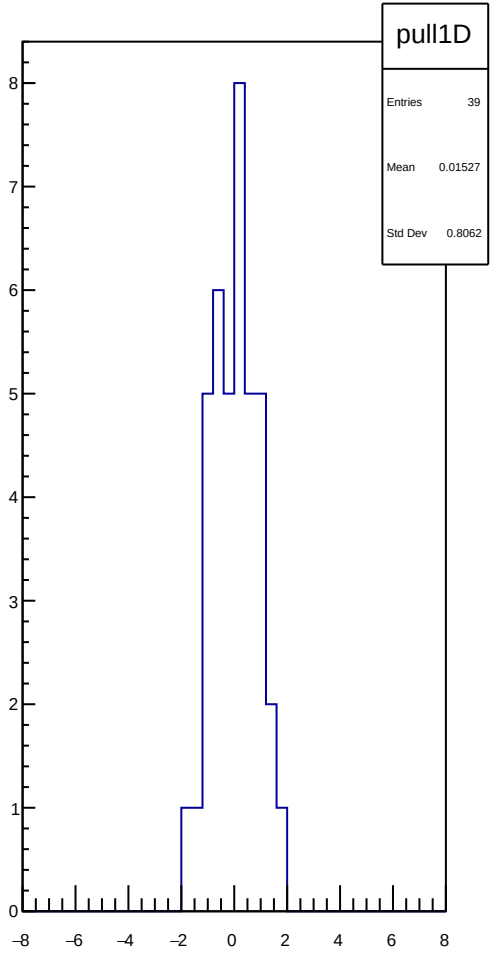
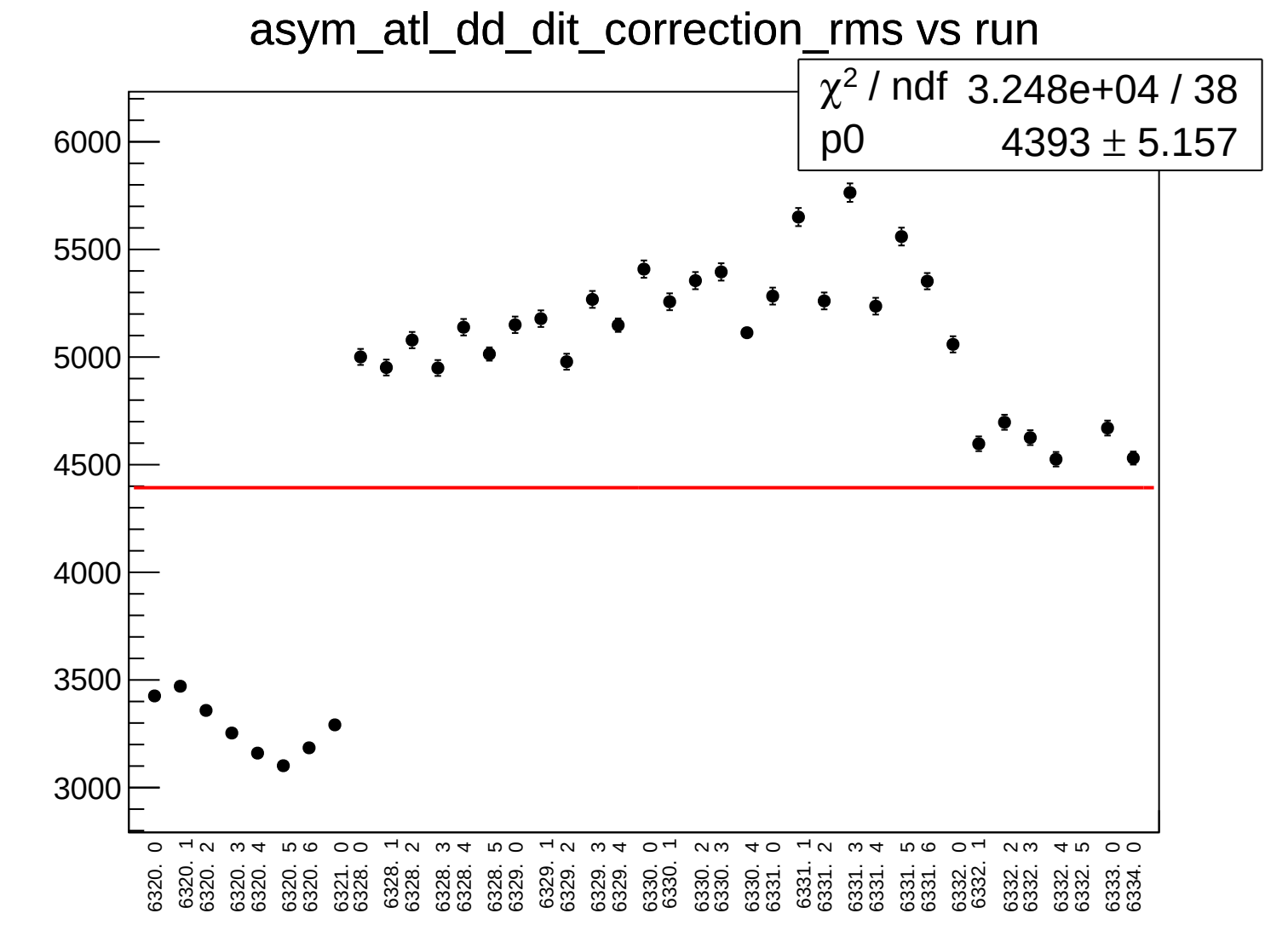
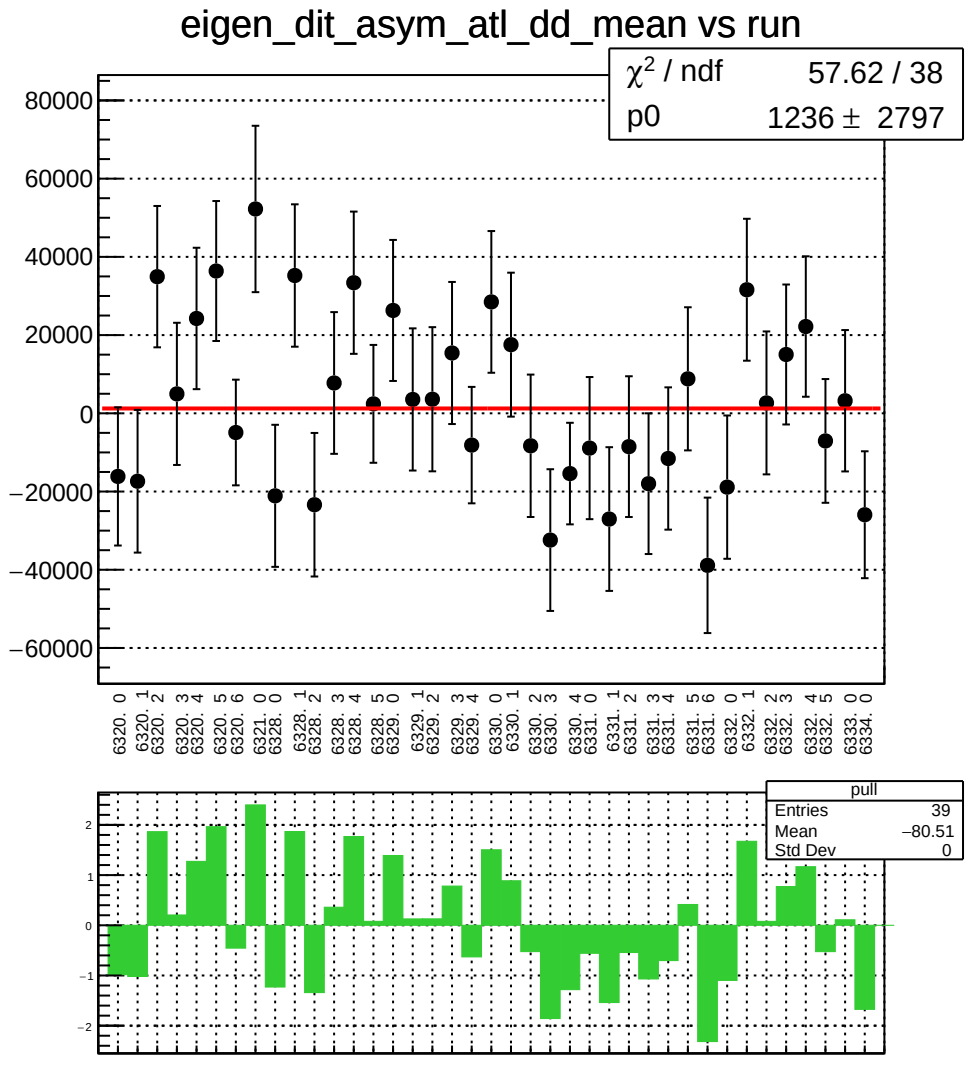
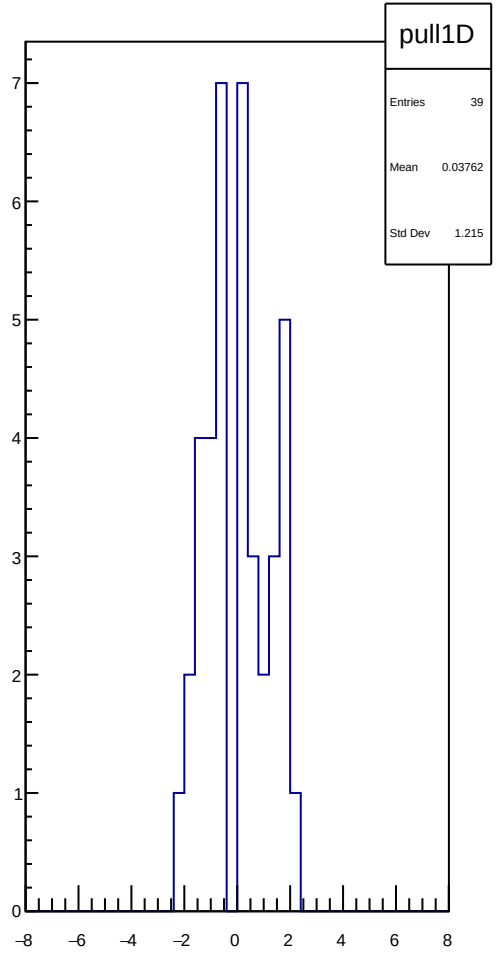
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

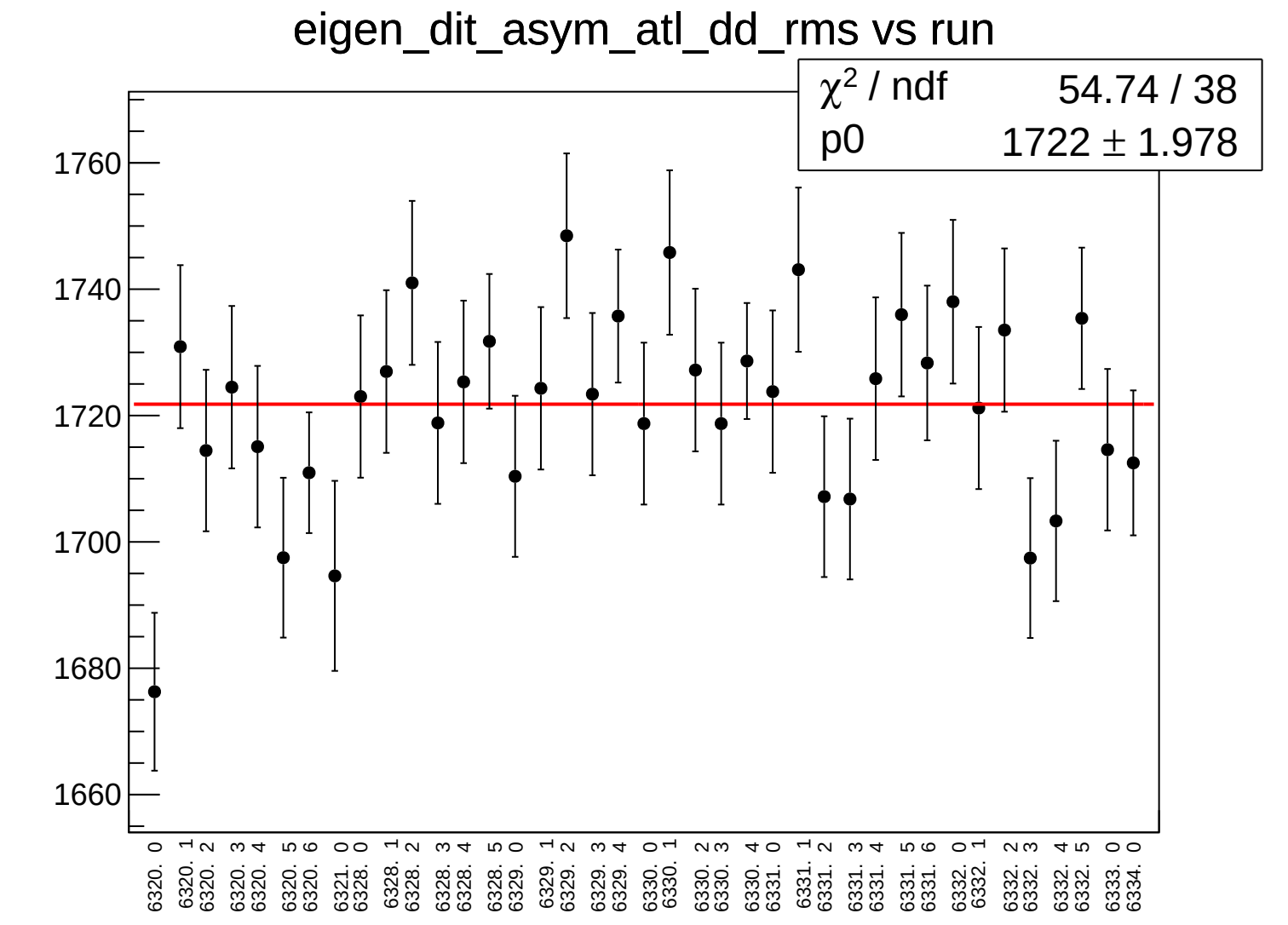

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 25.35 / 38
p0 −4024 ± 7294
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

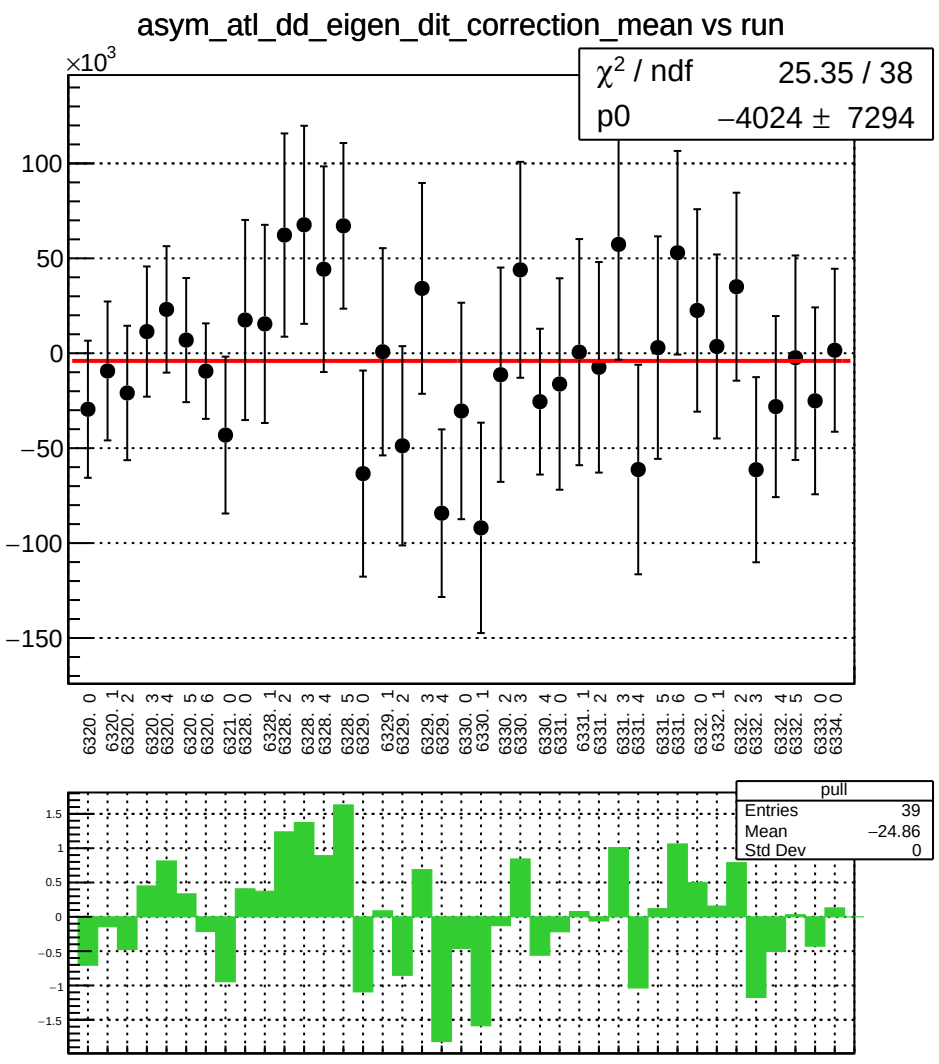

pull1D
Entries 39
Mean 0.01527
Std Dev 0.8062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

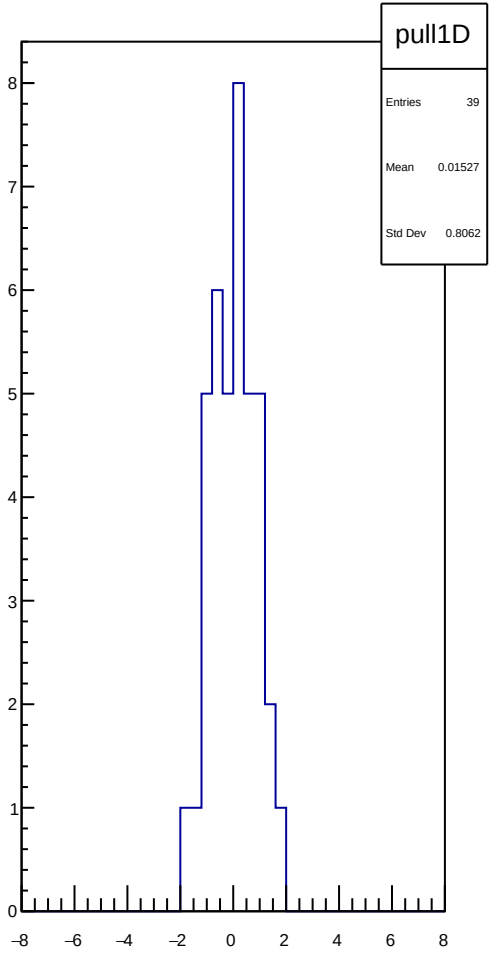

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3.248e+04 / 38
p0 4393 ± 5.157
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

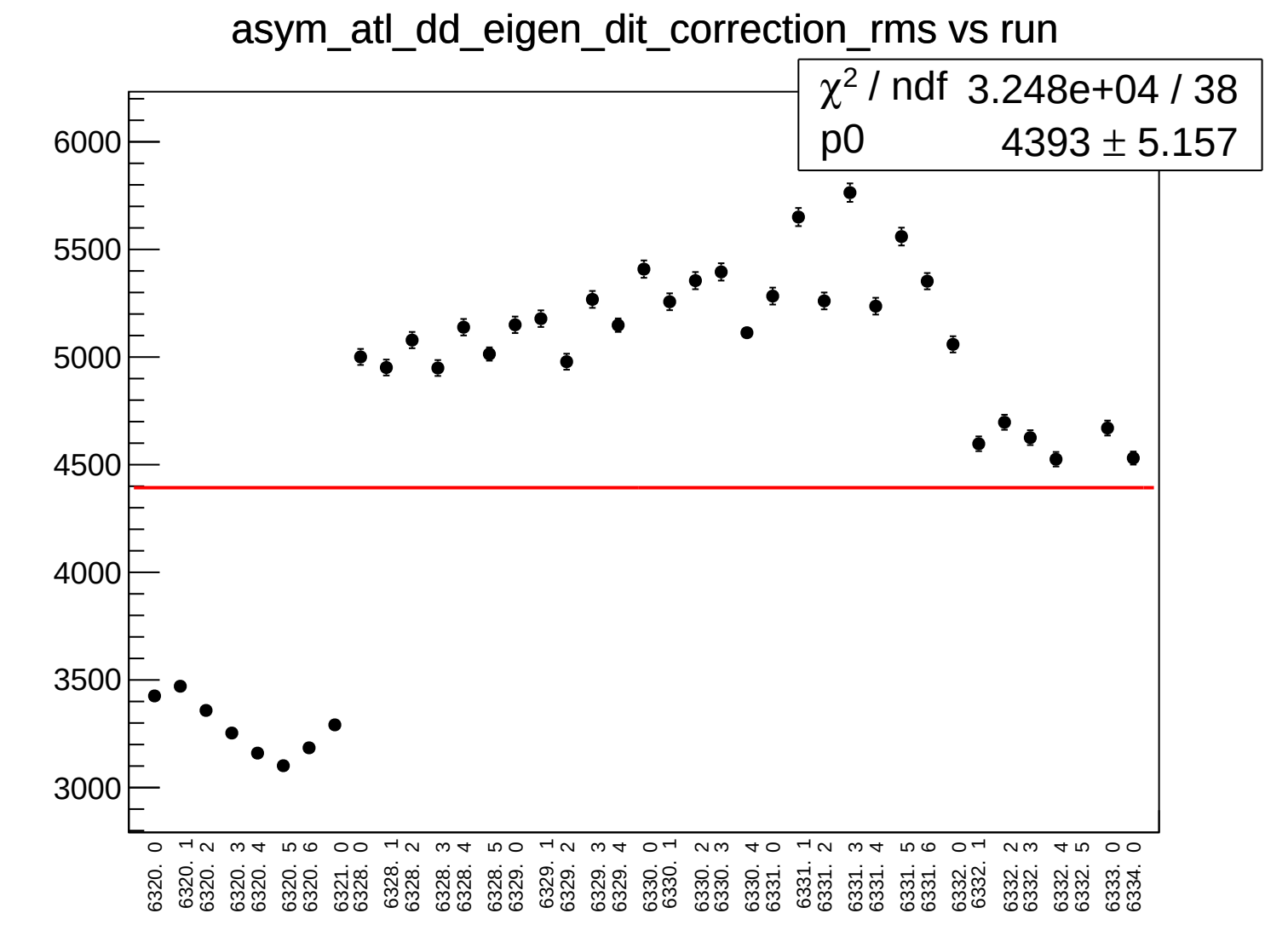

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 57.62 / 38
p0 1236 ± 2797
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −80.51
Std Dev 0
2
1
0
−1
−2

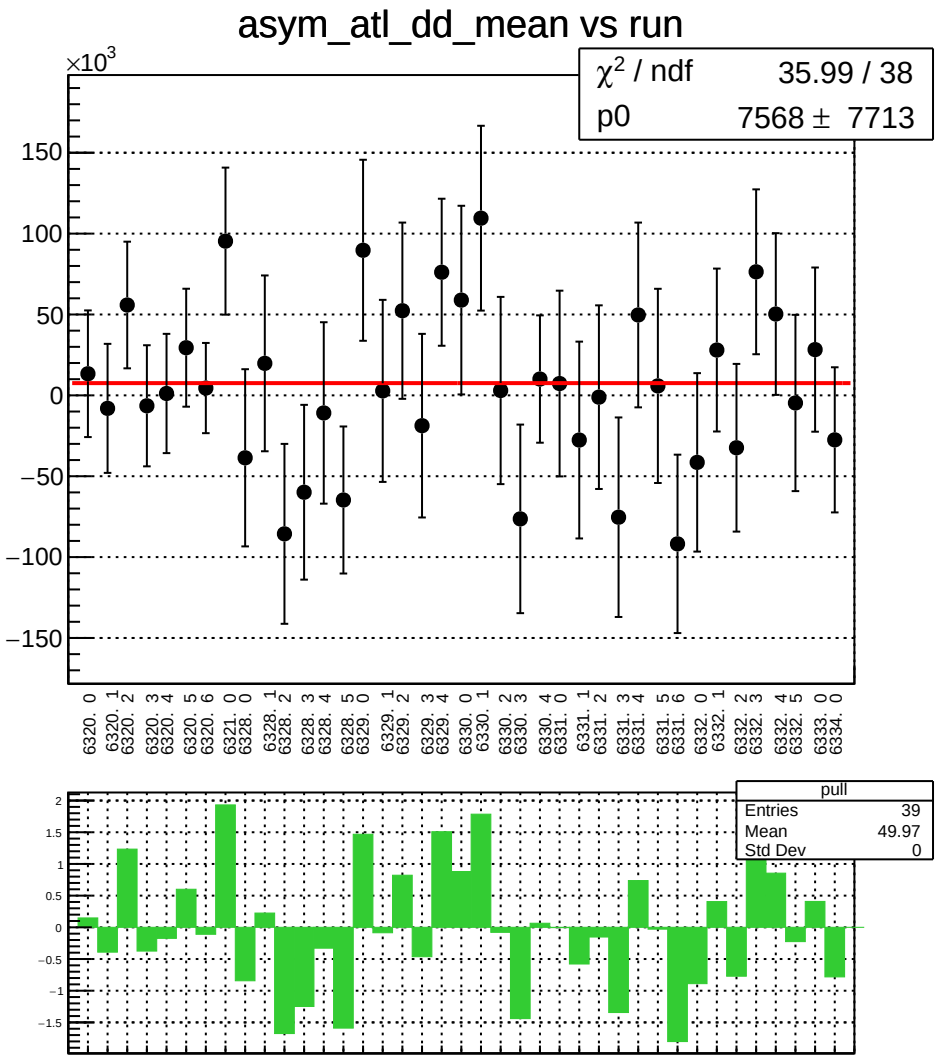

pull1D
Entries 39
Mean 0.03762
Std Dev 1.215
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

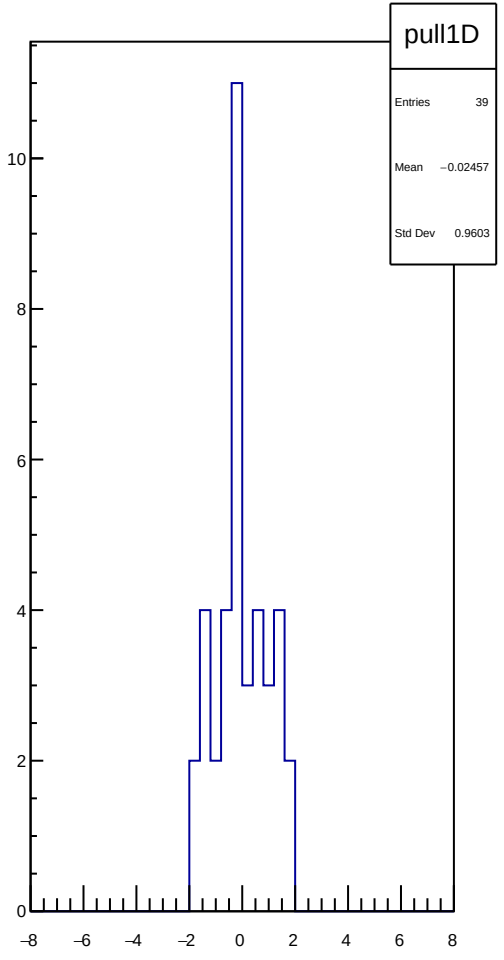

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 54.74 / 38
p0 1722 ± 1.978
1760
1740
1720
1700
1680
1660
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

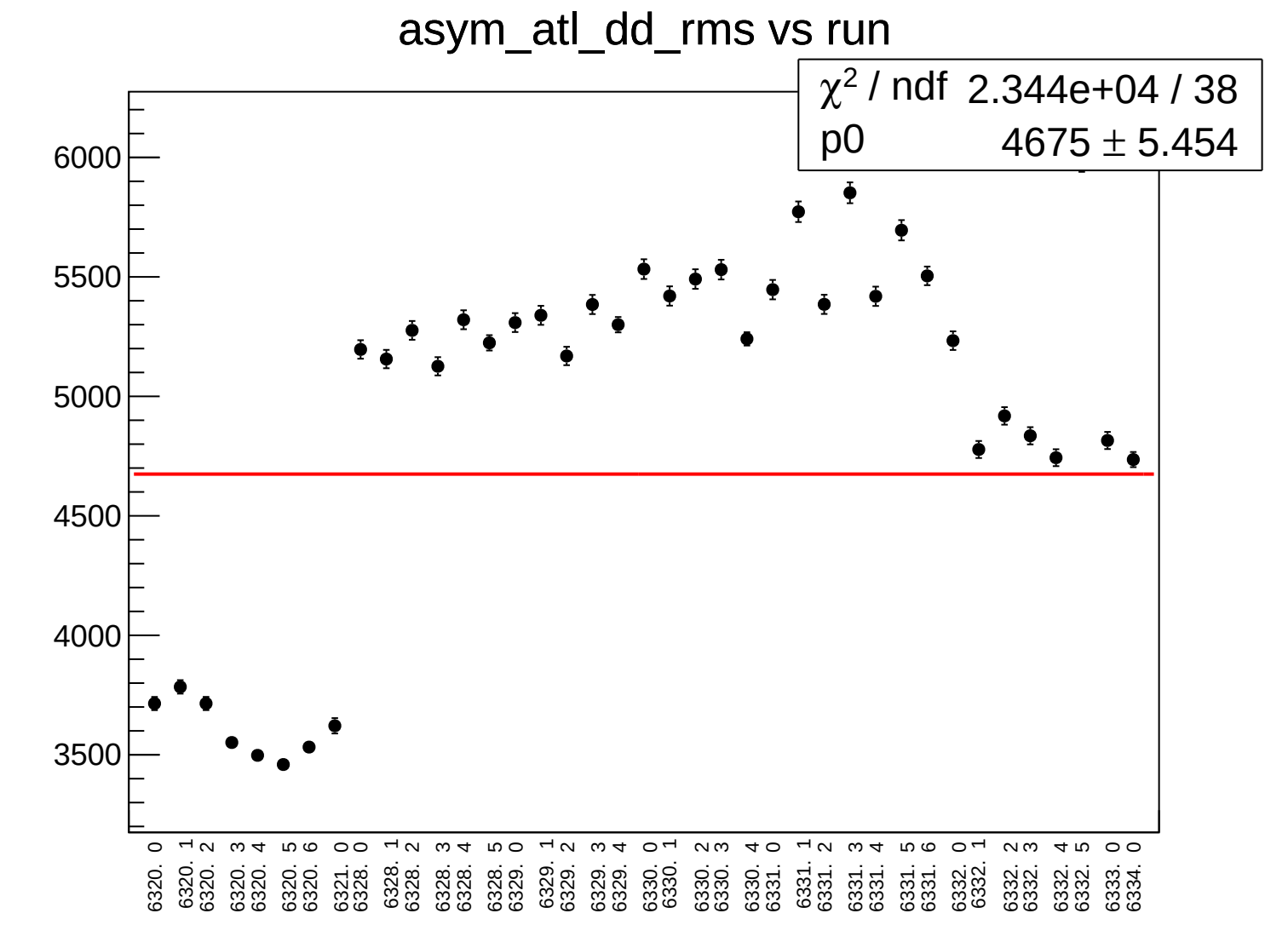

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 25.35 / 38
p0 −4024 ± 7294
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

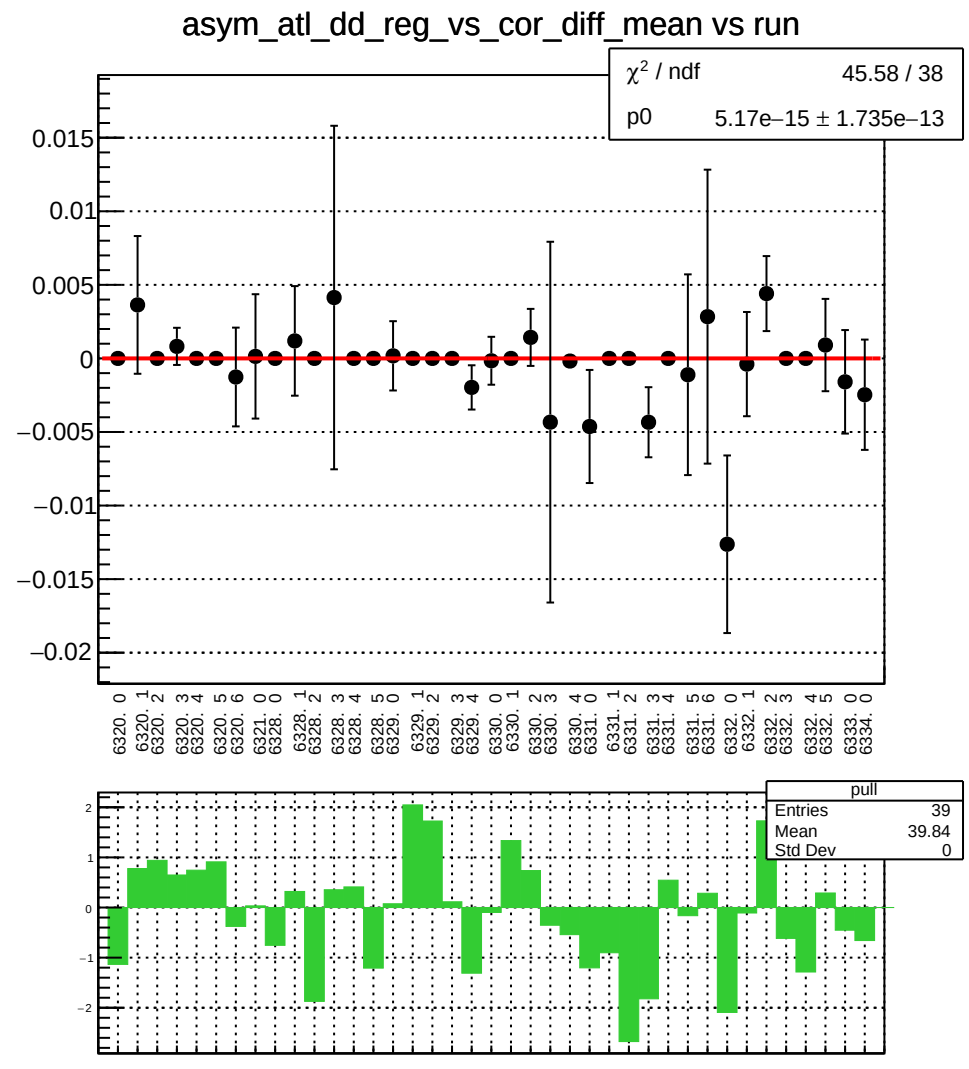

pull1D
Entries 39
Mean 0.01527
Std Dev 0.8062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

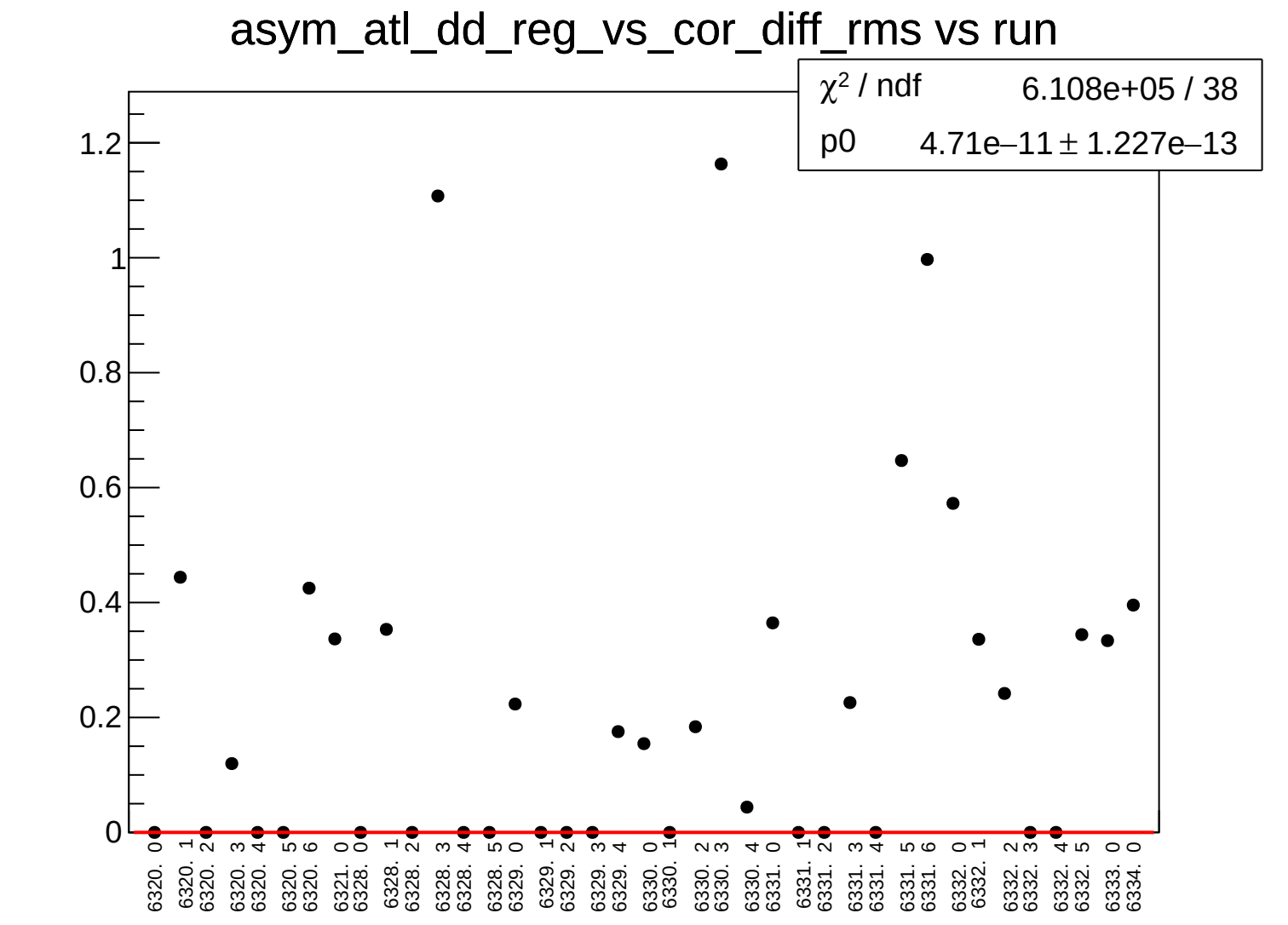

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.248e+04 / 38
p0 4393 ± 5.157
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

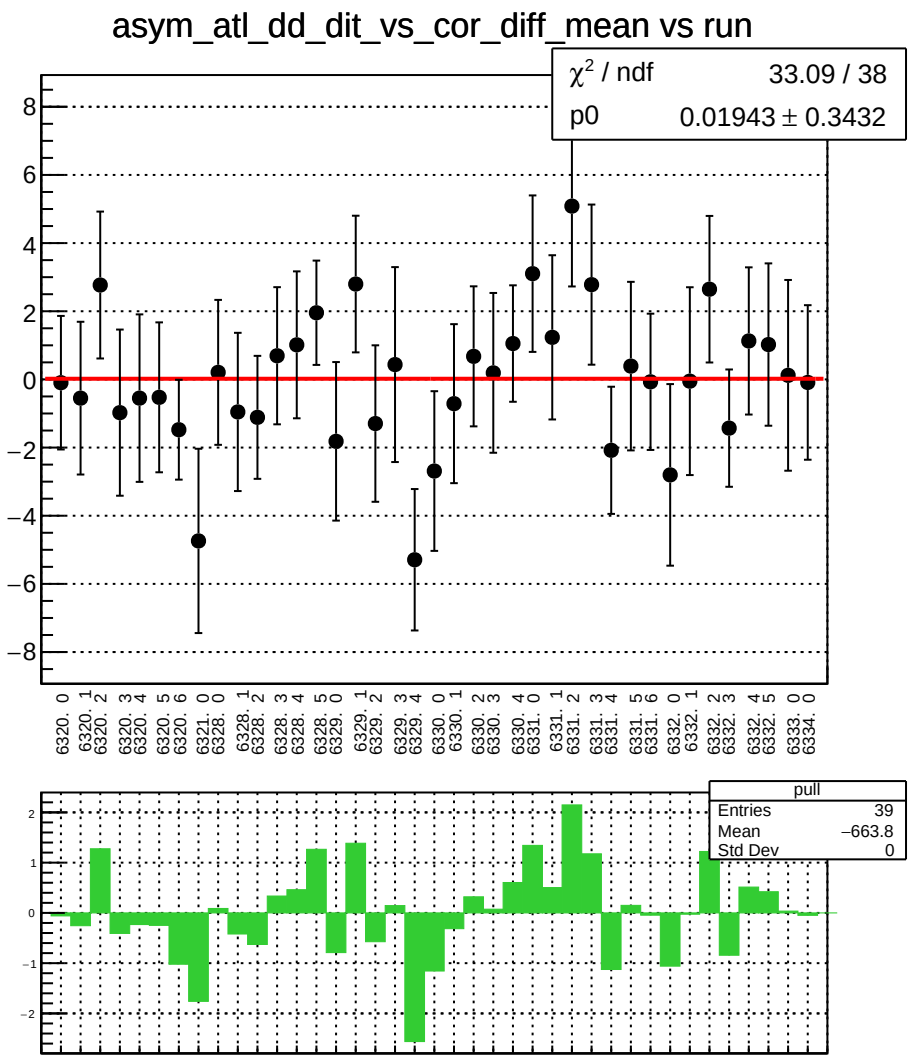

asym_atl_dd_mean vs run
χ² / ndf 35.99 / 38
p0 7568 ± 7713
×10³
pull
Entries 39
Mean 49.97
Std Dev 0

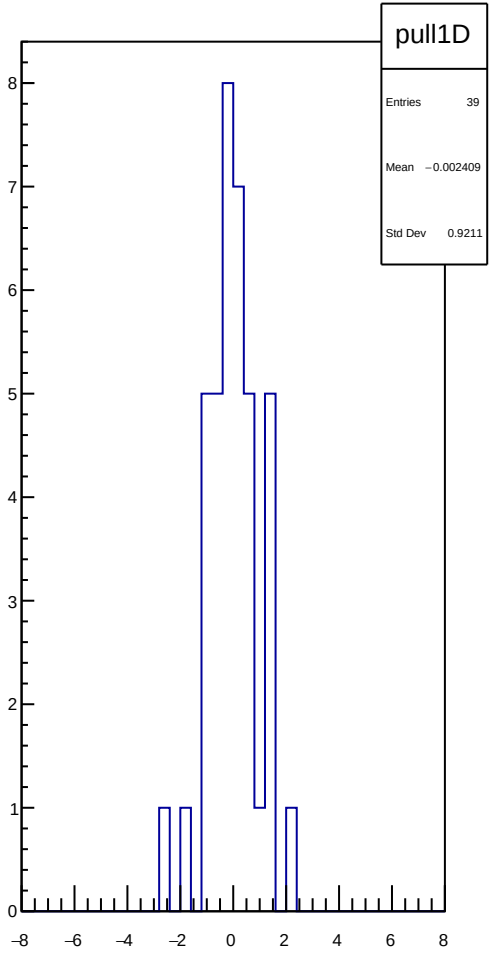

pull1D
Entries 39
Mean −0.02457
Std Dev 0.9603

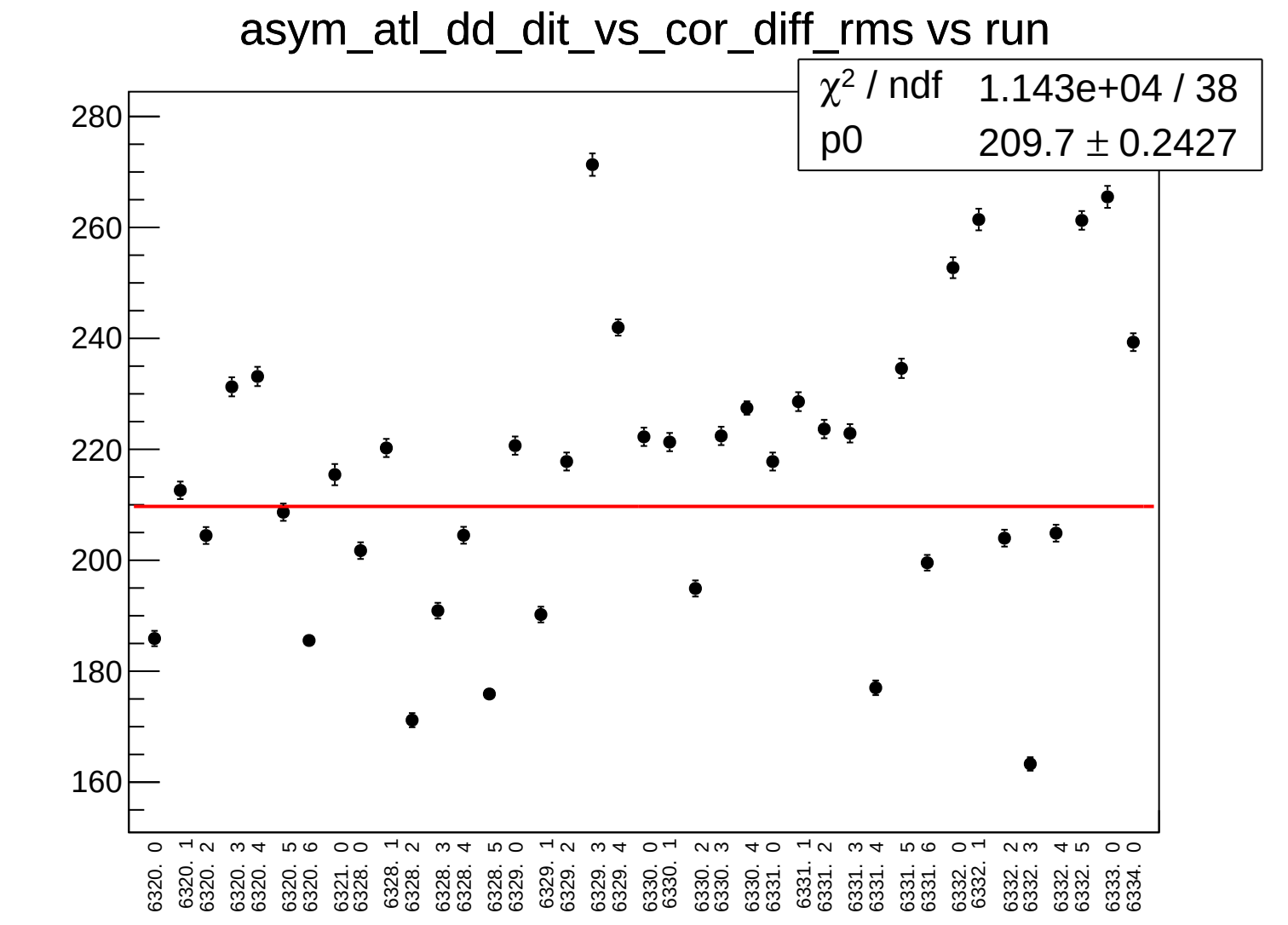

asym_atl_dd_rms vs run
χ² / ndf 2.344e+04 / 38
p0 4675 ± 5.454
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

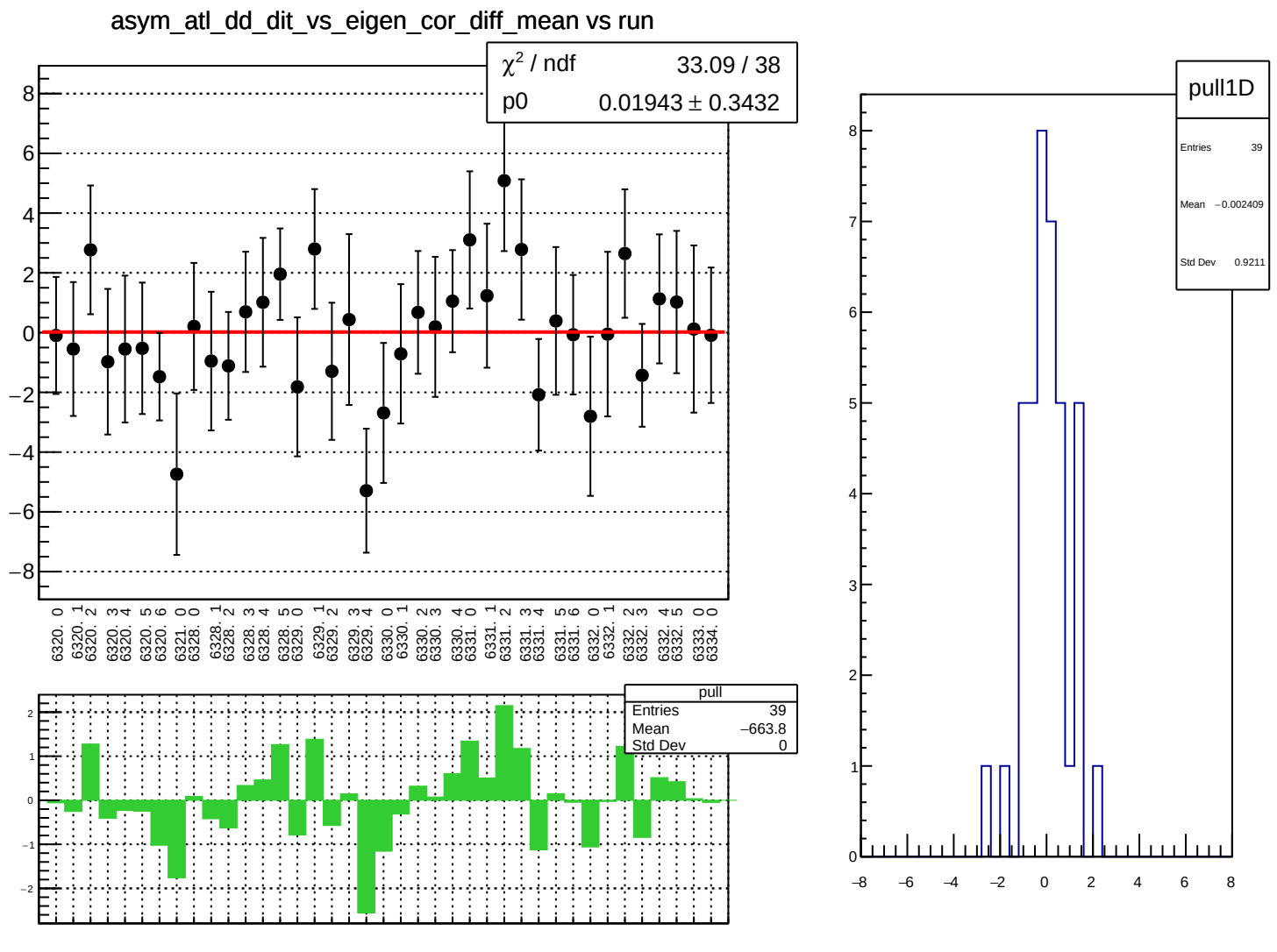

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.58 / 38
p0 5.17e−15 ± 1.735e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1437
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

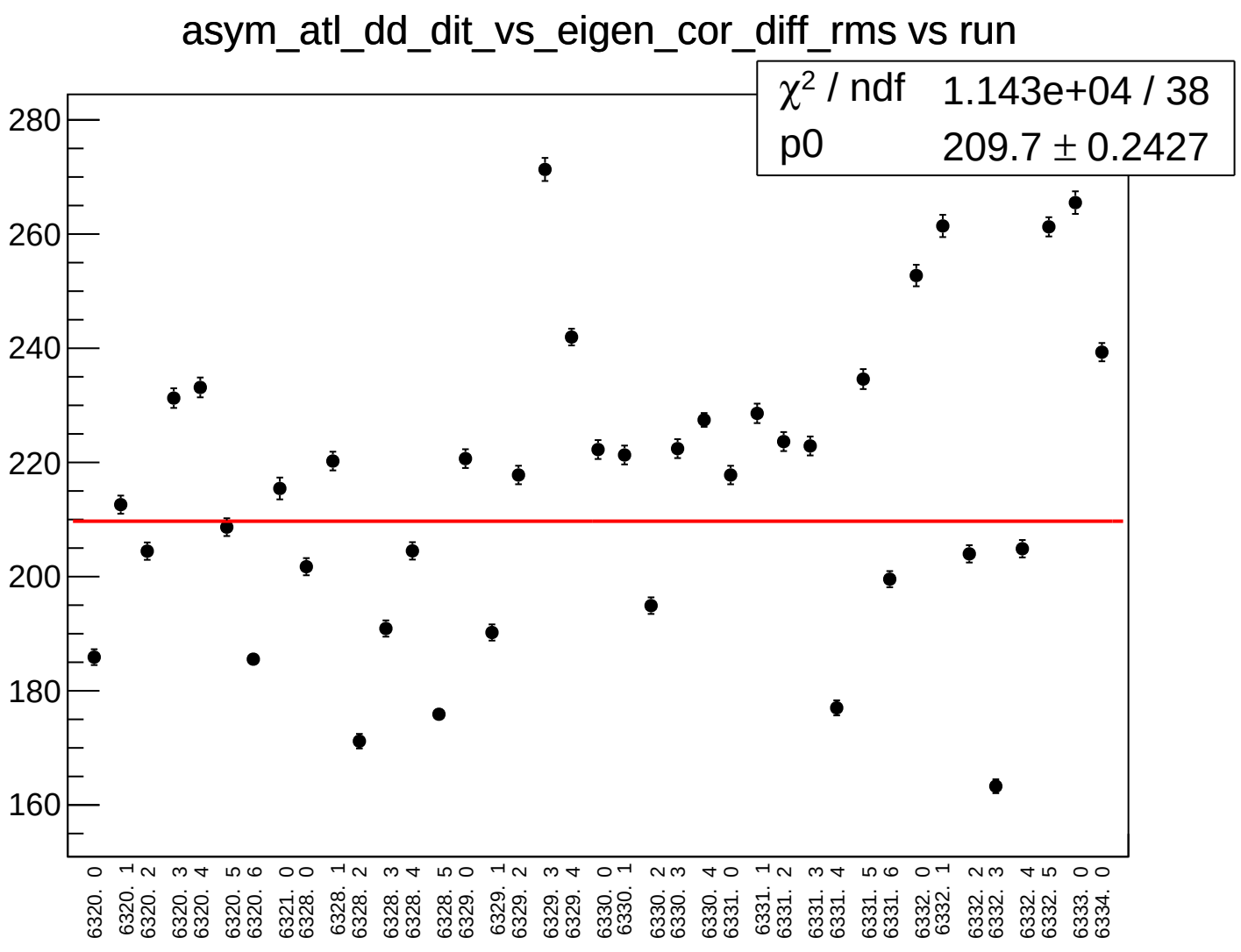

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.108e+05 / 38
p0 4.71e−11 ± 1.227e−13
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

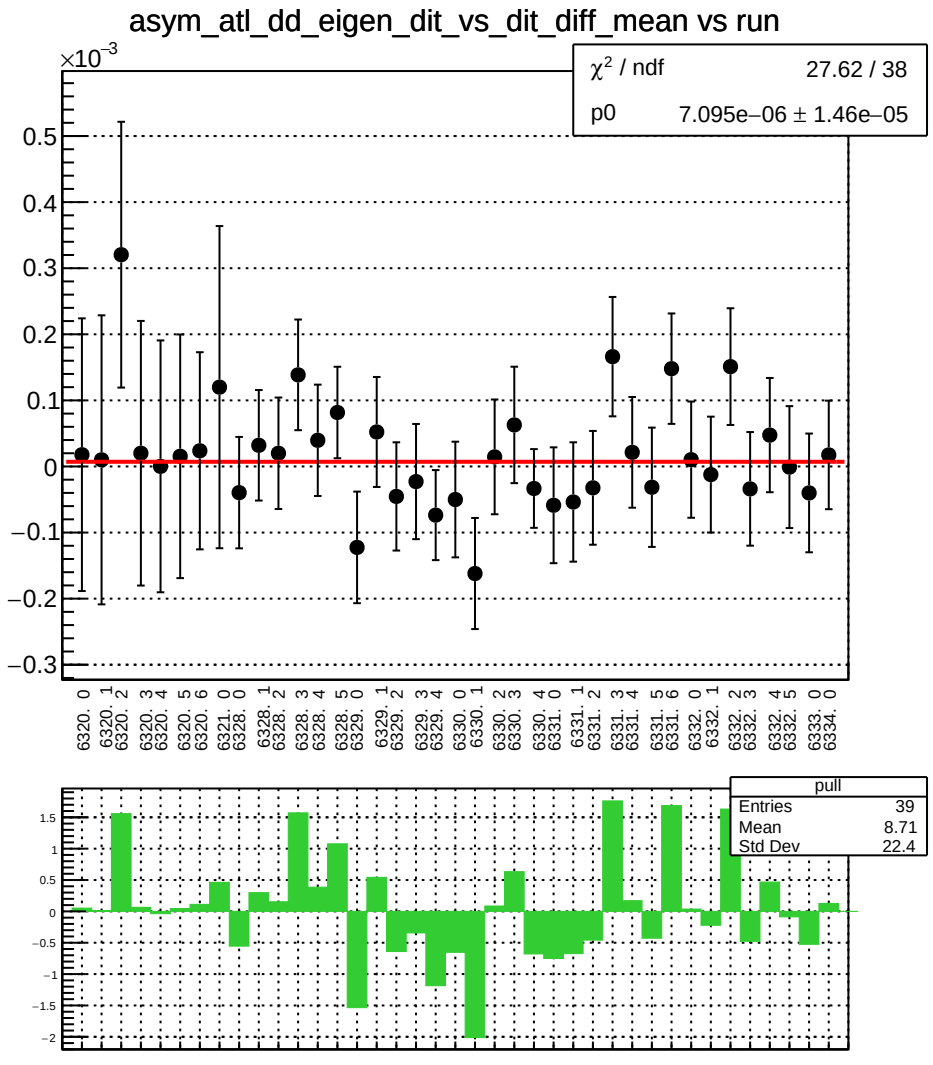

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.09 / 38
p0 0.01943 ± 0.3432
pull
Entries 39
Mean −663.8
Std Dev 0

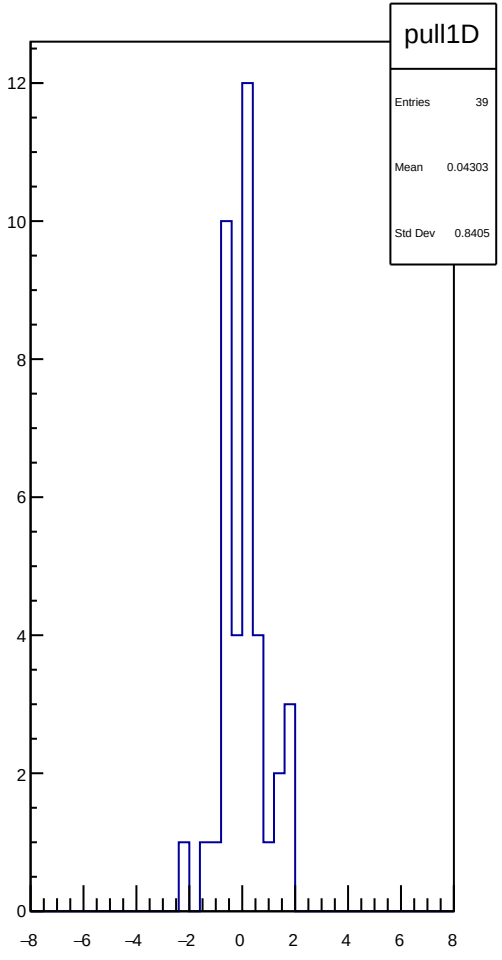

pull1D
Entries 39
Mean −0.002409
Std Dev 0.9211

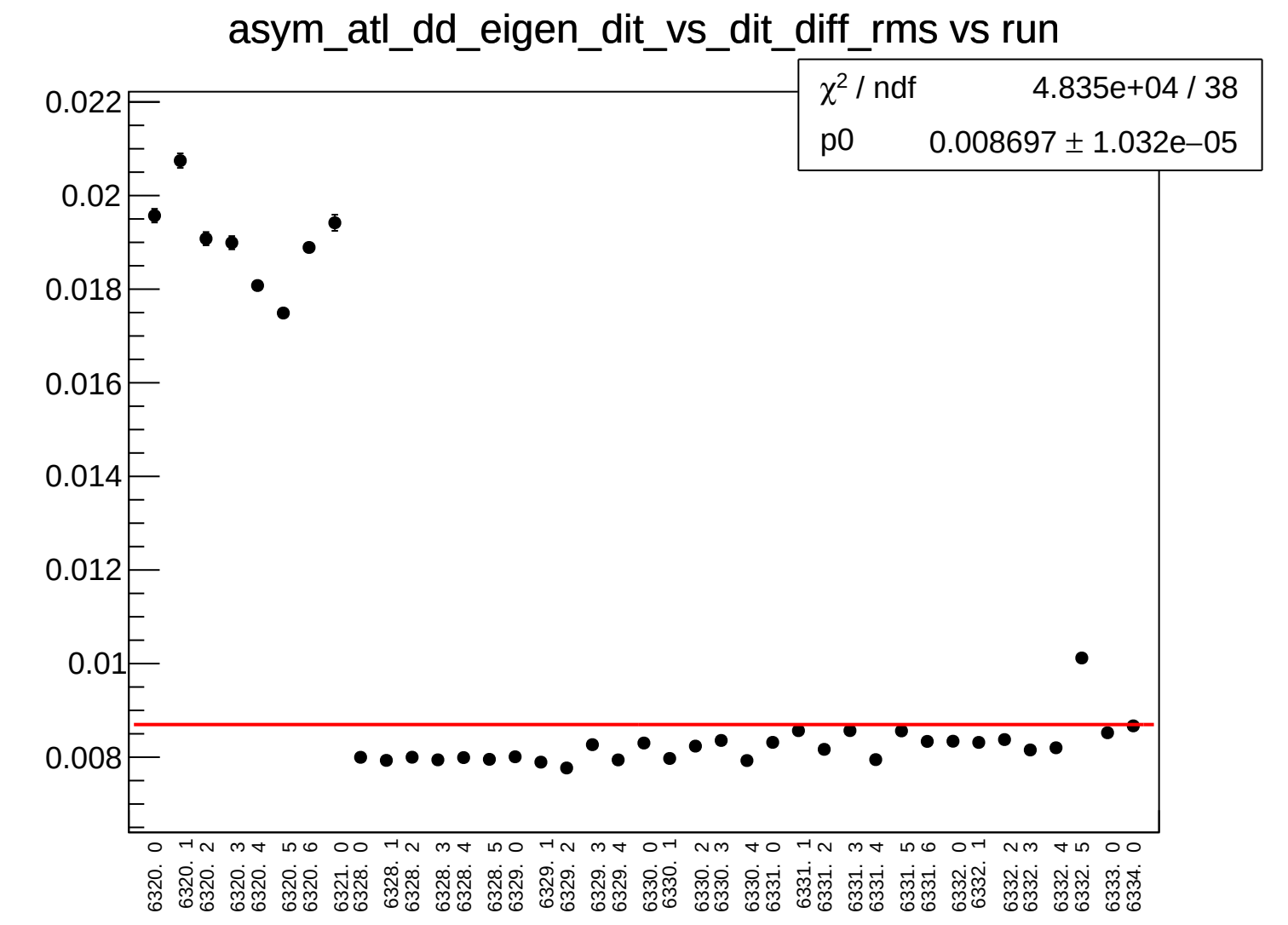

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 38
p0 209.7 ± 0.2427
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

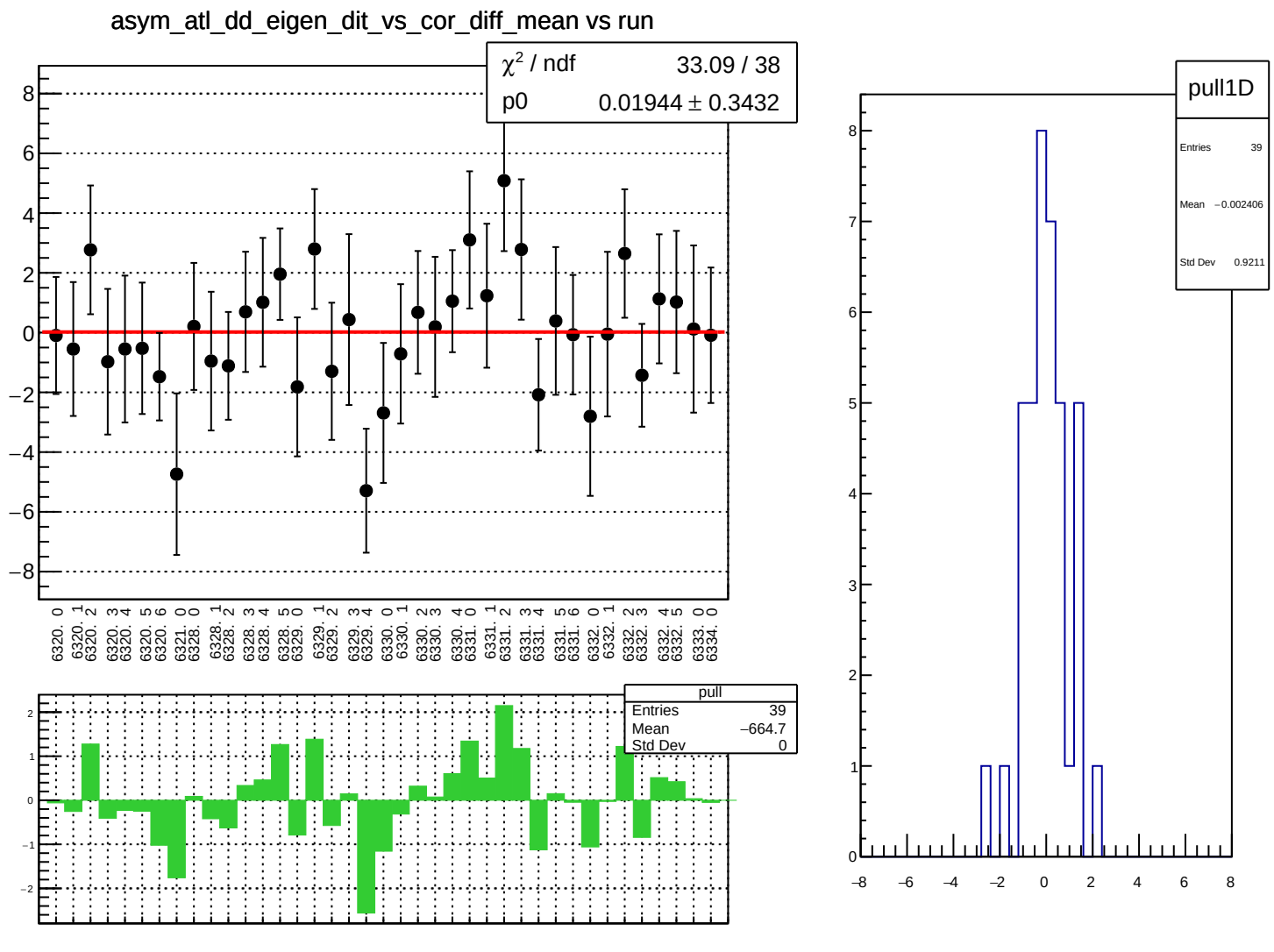

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.09 / 38
p0 0.01943 ± 0.3432
pull
Entries 39
Mean −663.8
Std Dev 0
pull1D
Entries 39
Mean −0.002409
Std Dev 0.9211

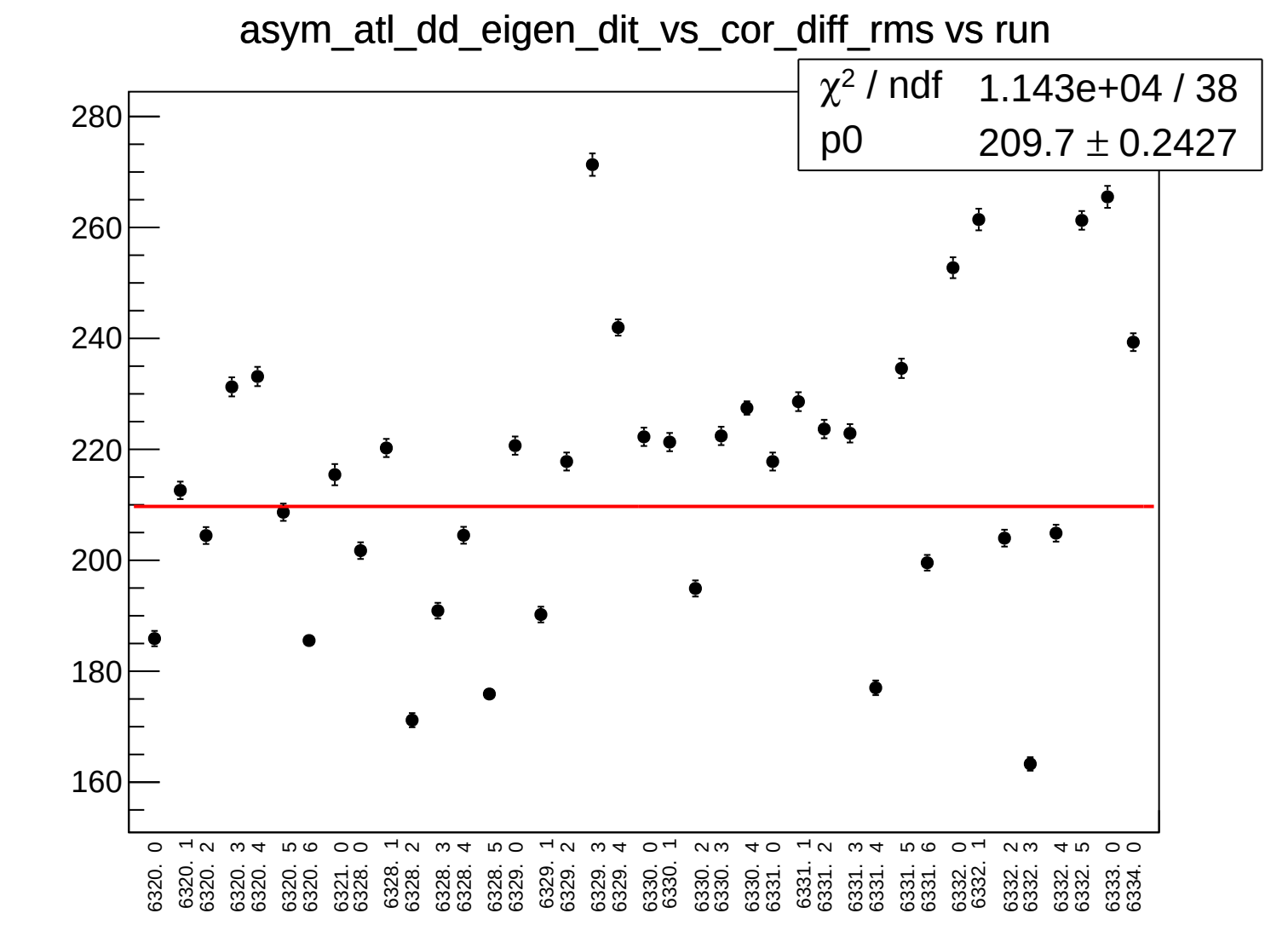

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 38
p0 209.7 ± 0.2427
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

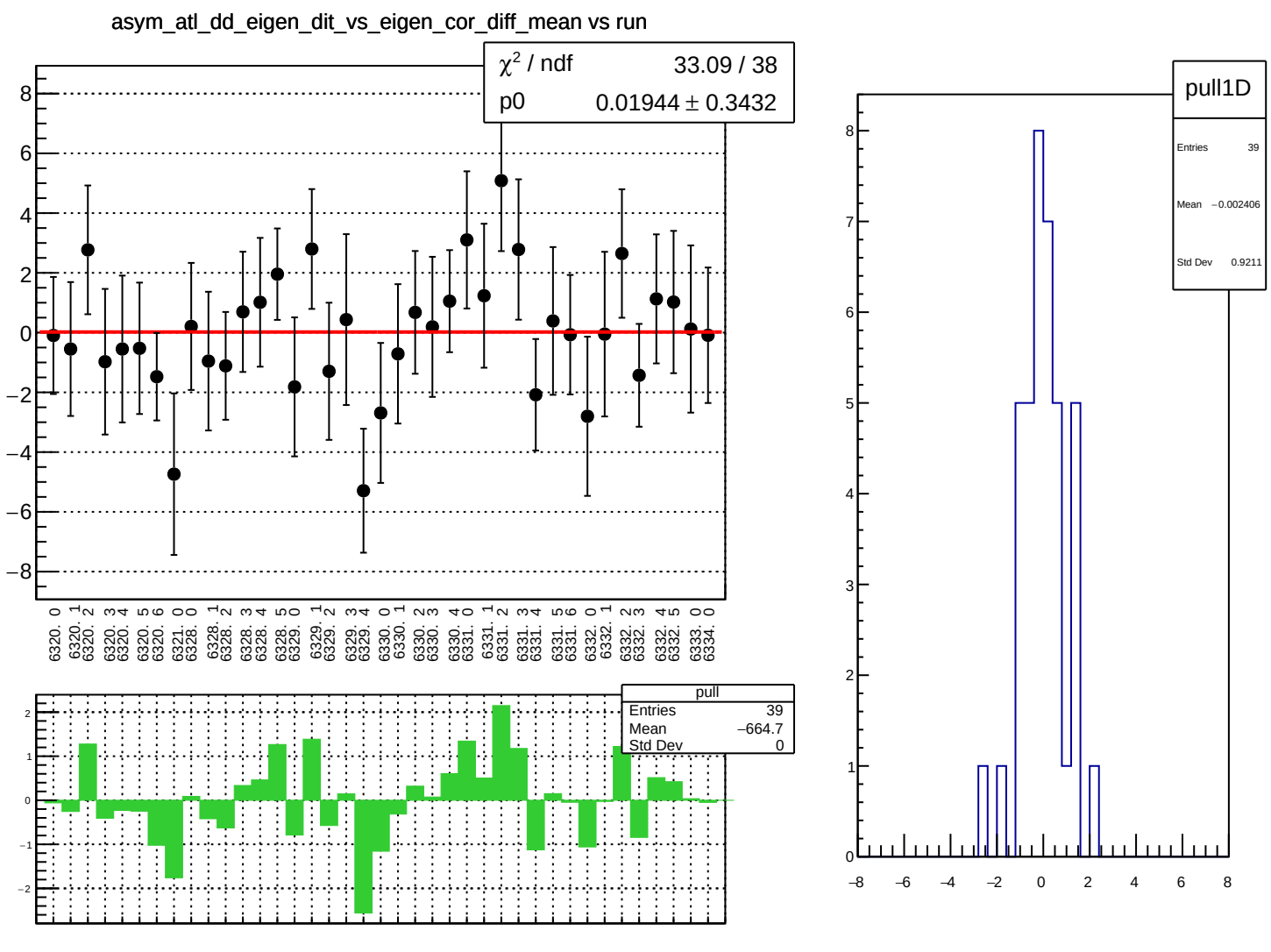

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.62 / 38
p0 7.095e−06 ± 1.46e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.71
Std Dev 22.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

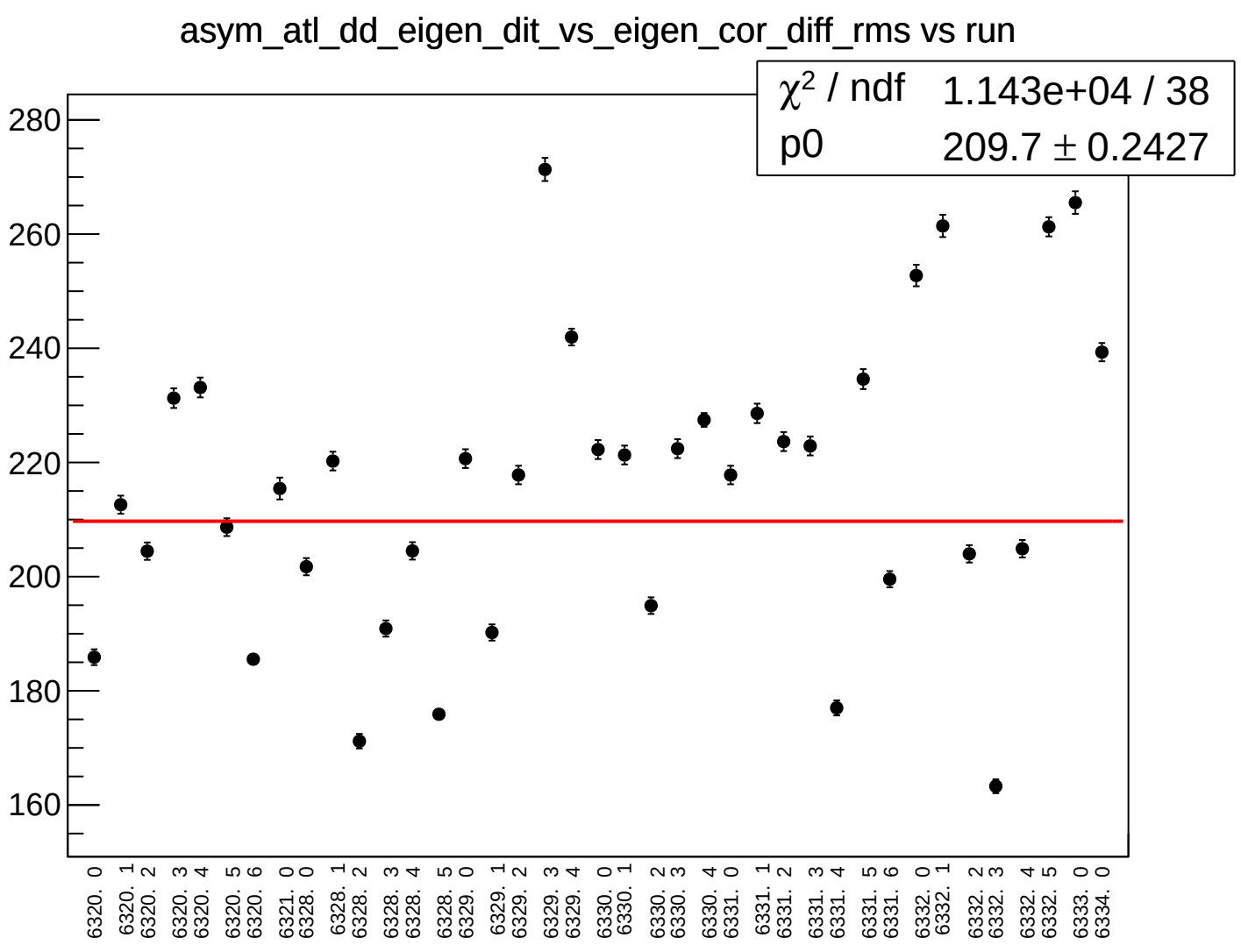

pull1D
Entries 39
Mean 0.04303
Std Dev 0.8405
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

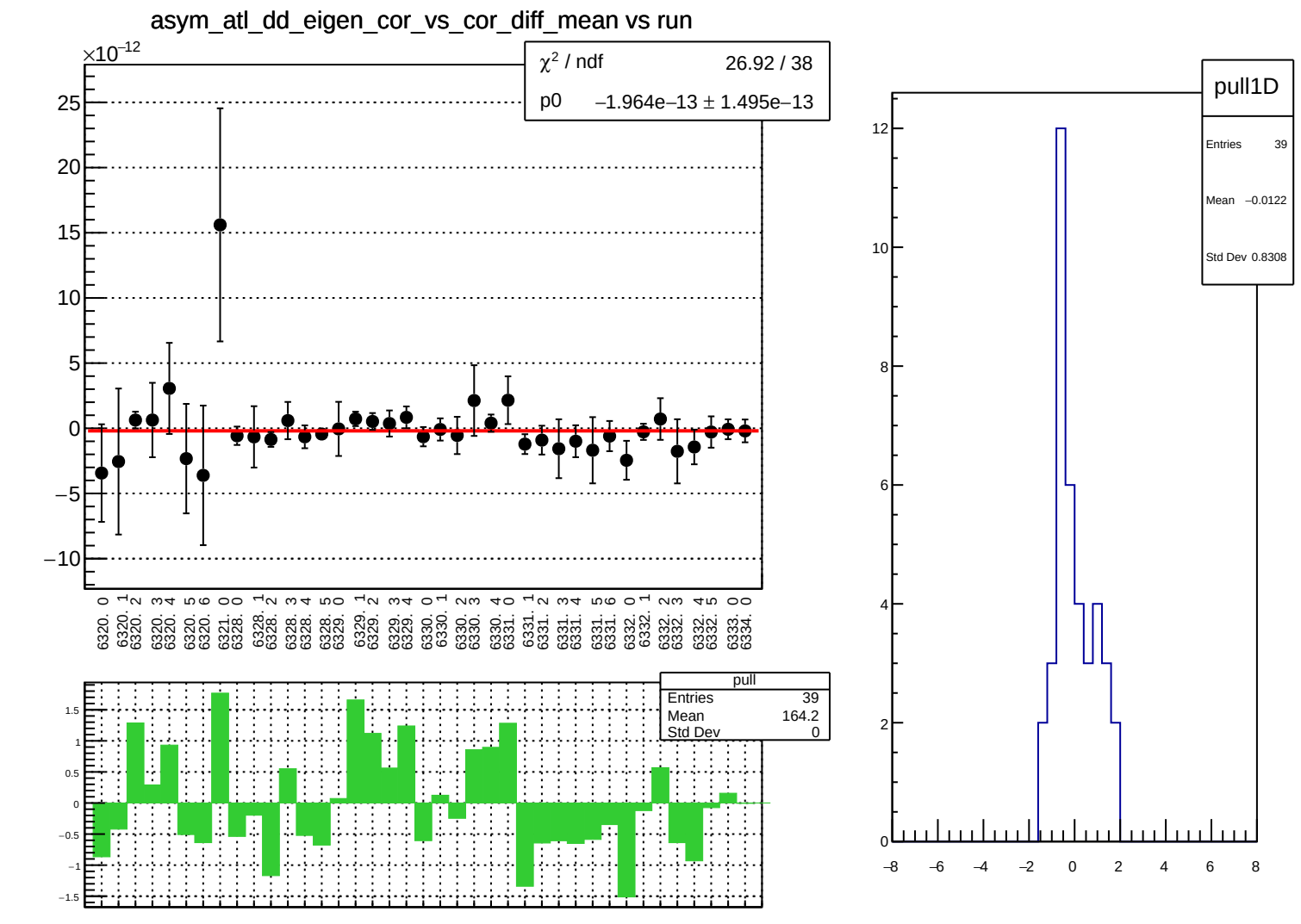

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.835e+04 / 38
p0 0.008697 ± 1.032e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

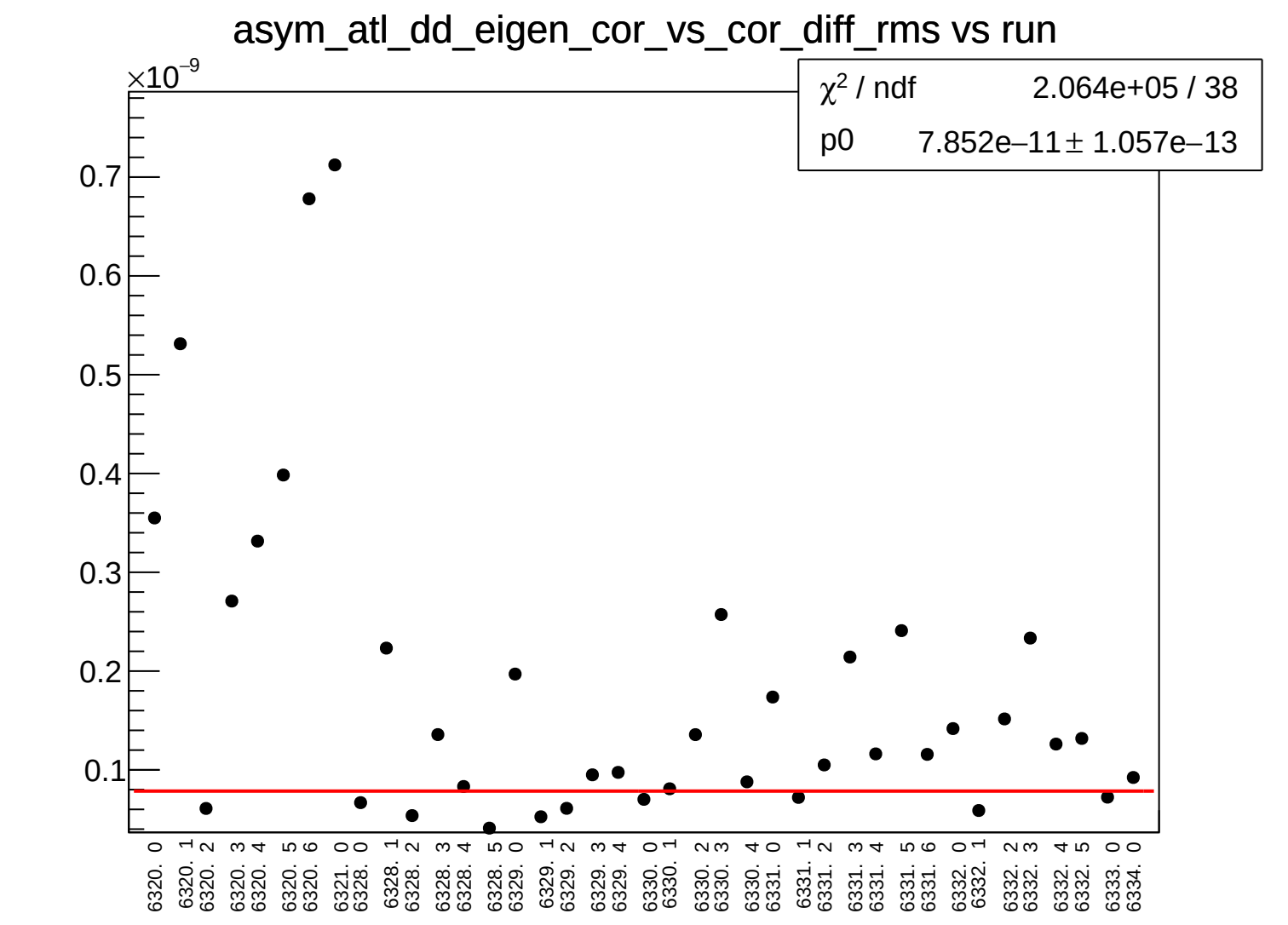

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.09 / 38
p0 0.01944 ± 0.3432
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −664.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.002406
Std Dev 0.9211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

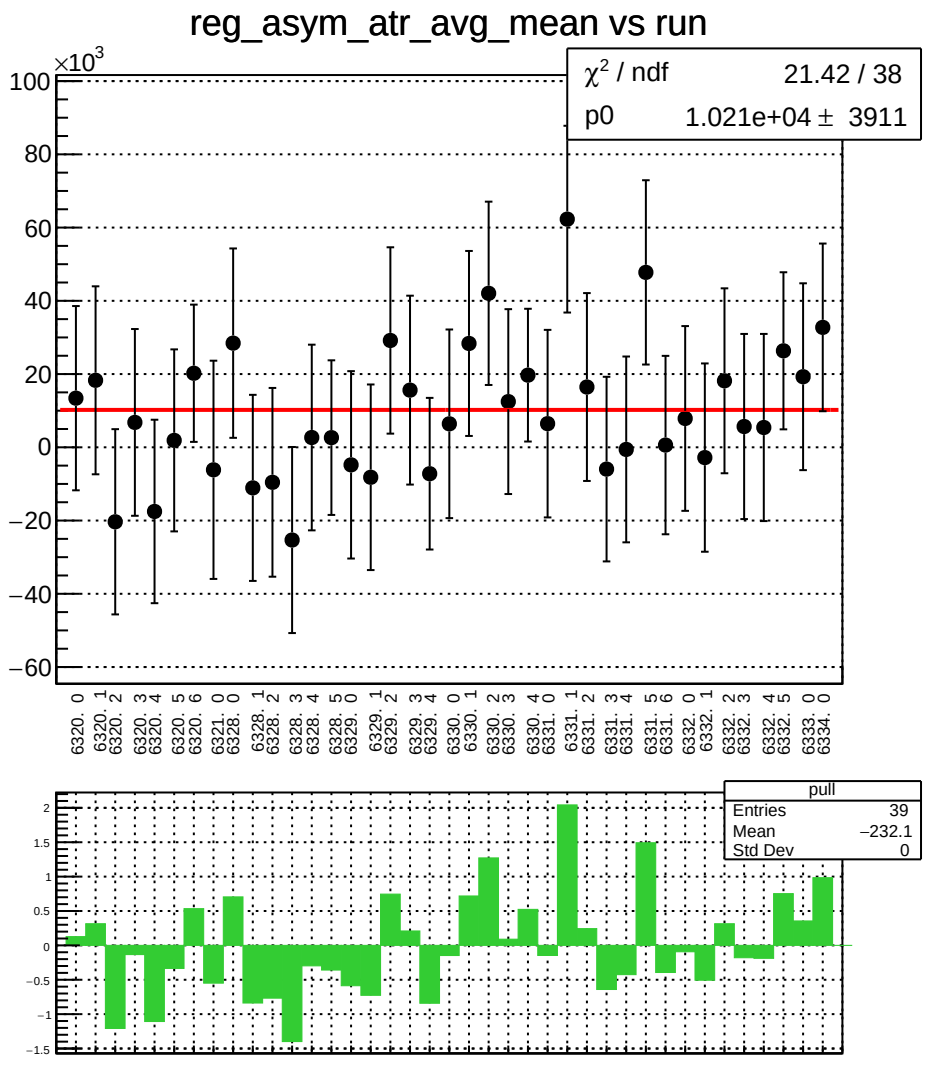

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 38
p0 209.7 ± 0.2427
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

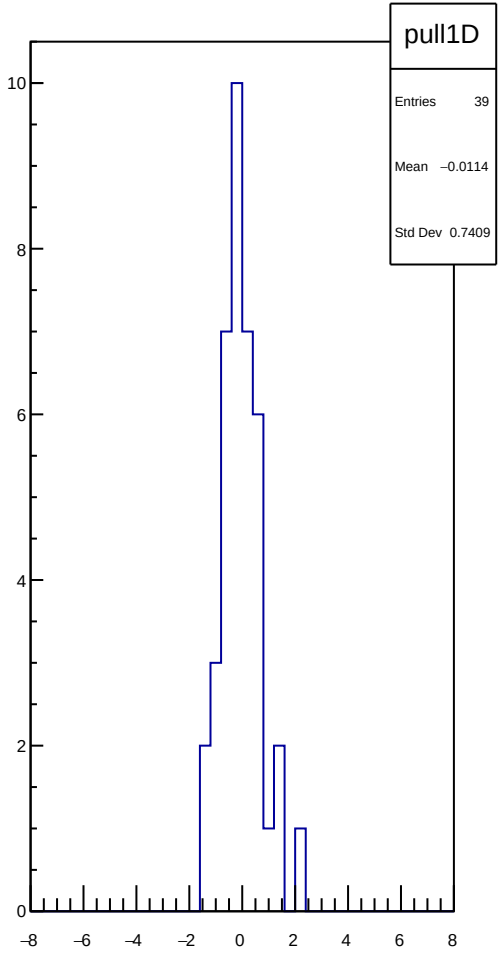

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.09 / 38
p0 0.01944 ± 0.3432
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −664.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.002406
Std Dev 0.9211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

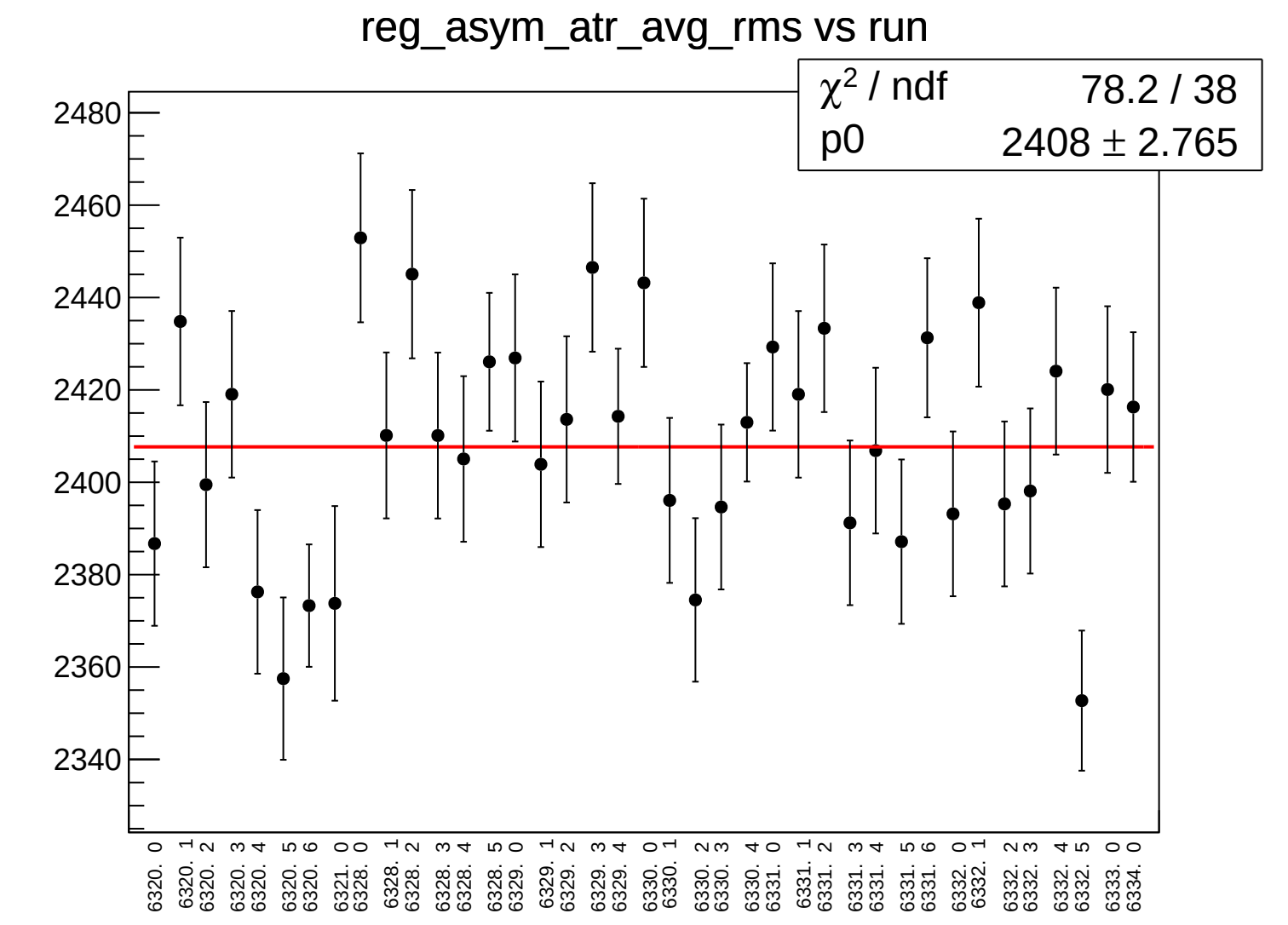

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 38
p0 209.7 ± 0.2427
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

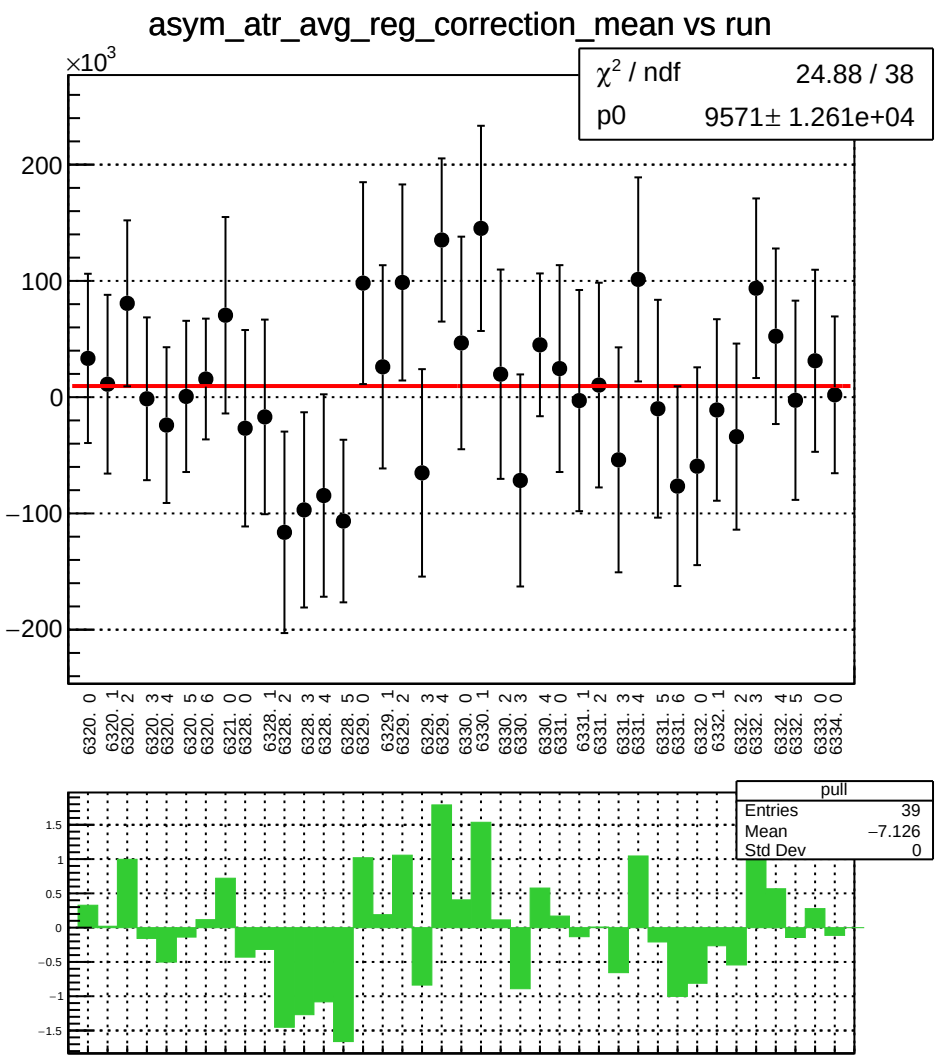

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.92 / 38
p0 −1.964e−13 ± 1.495e−13
25
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 164.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0122
Std Dev 0.8308
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

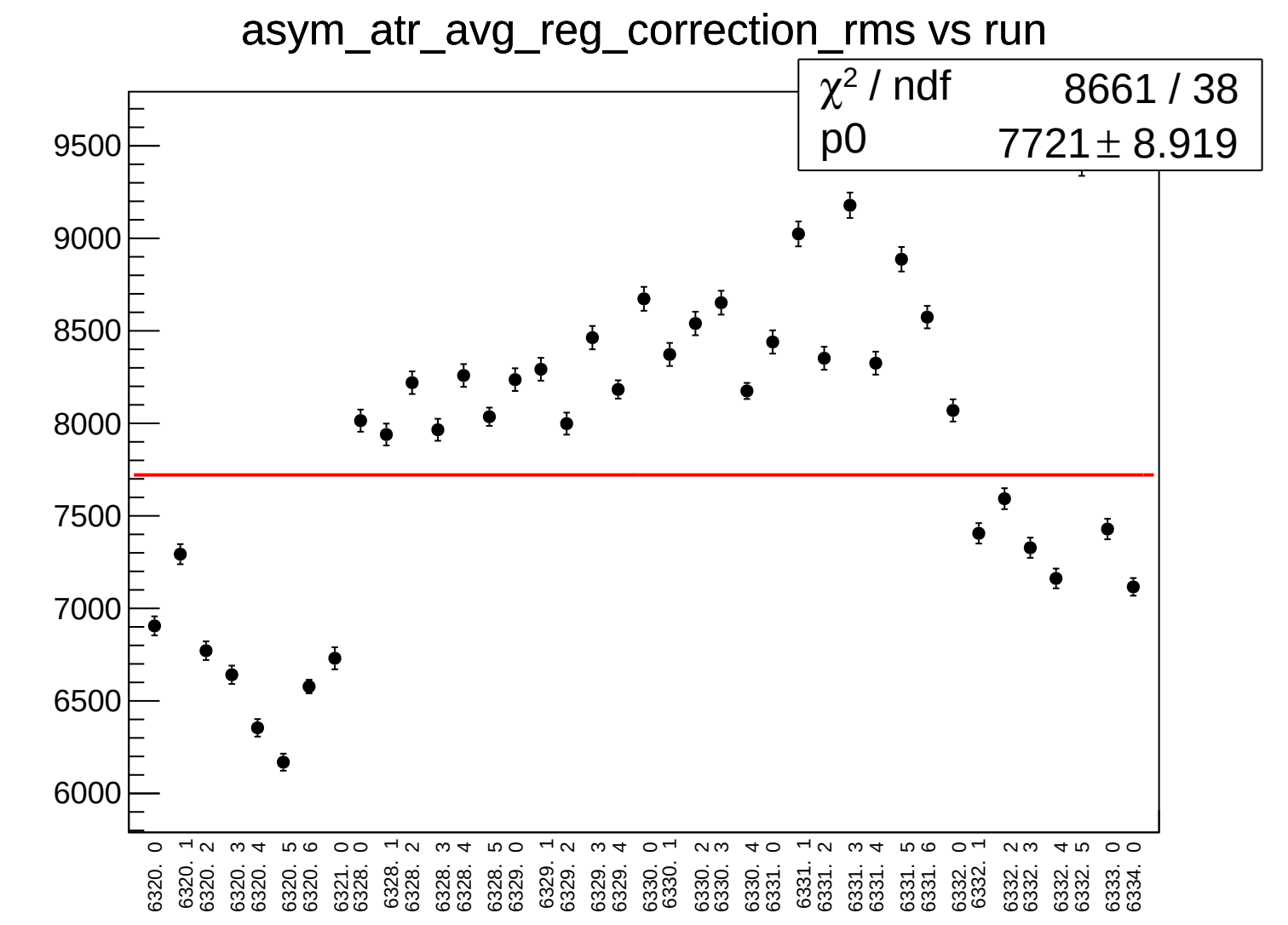

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.064e+05 / 38
p0 7.852e−11 ± 1.057e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

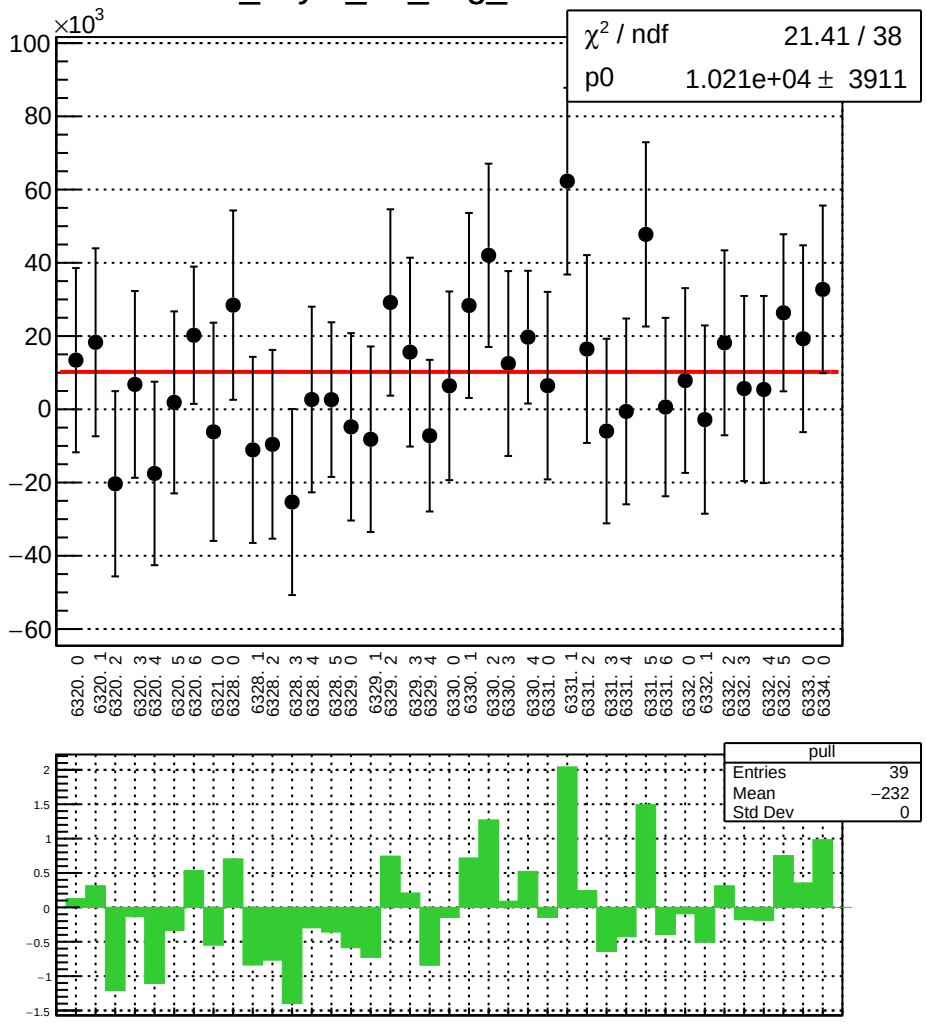

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 21.42 / 38
p0 1.021e+04 ± 3911
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −232.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

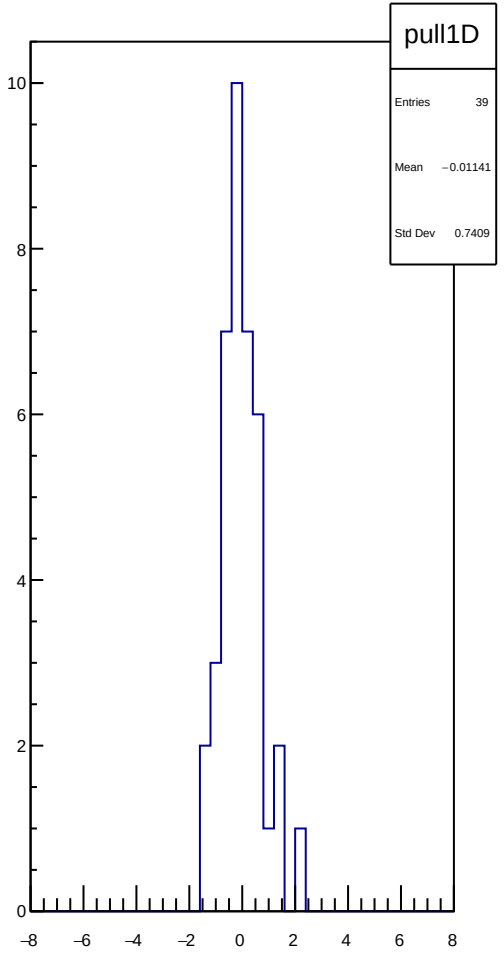

pull1D
Entries 39
Mean −0.0114
Std Dev 0.7409
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

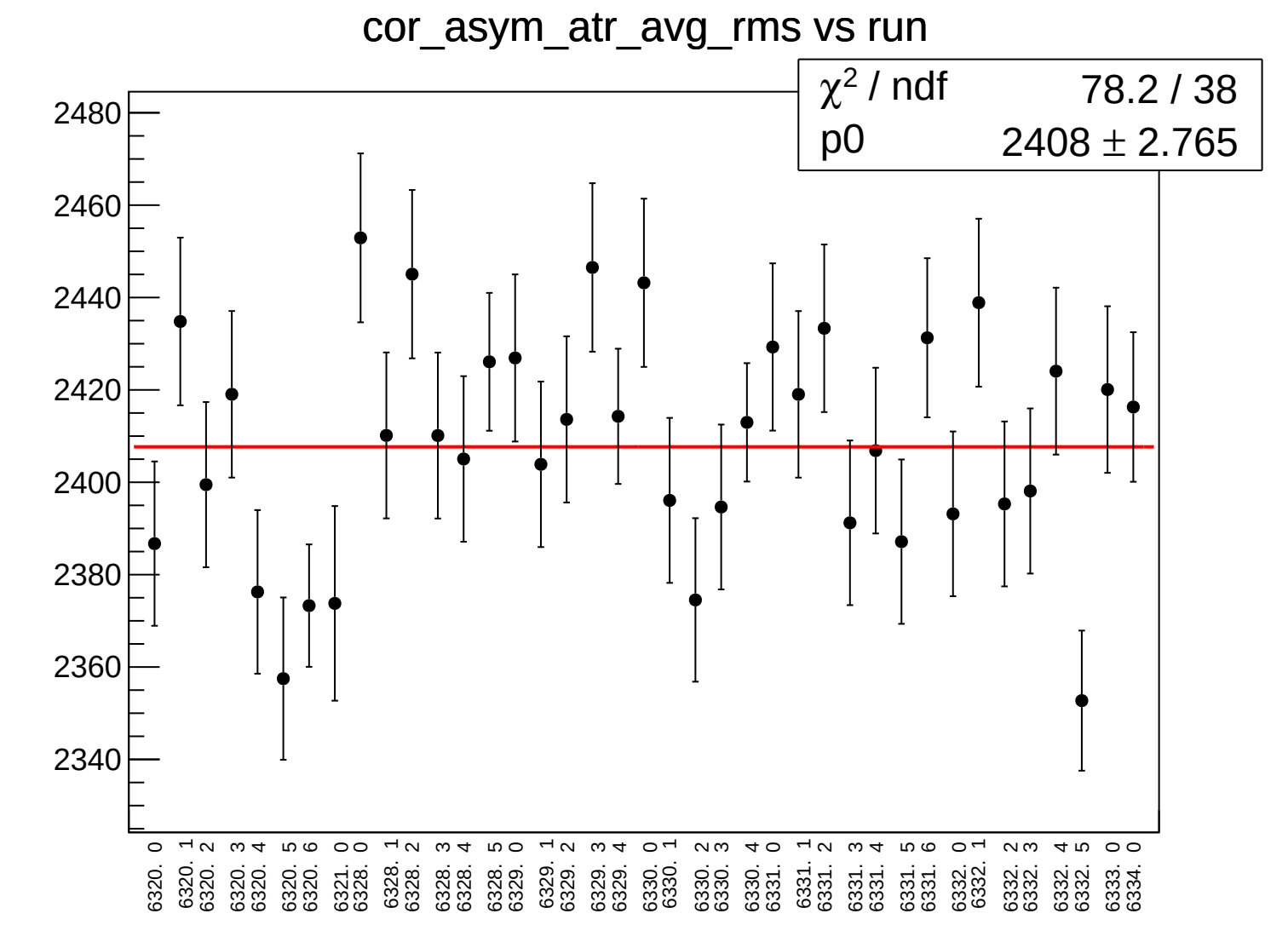

reg_asym_atr_avg_rms vs run
χ² / ndf 78.2 / 38
p0 2408 ± 2.765
2480
2460
2440
2420
2400
2380
2360
2340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

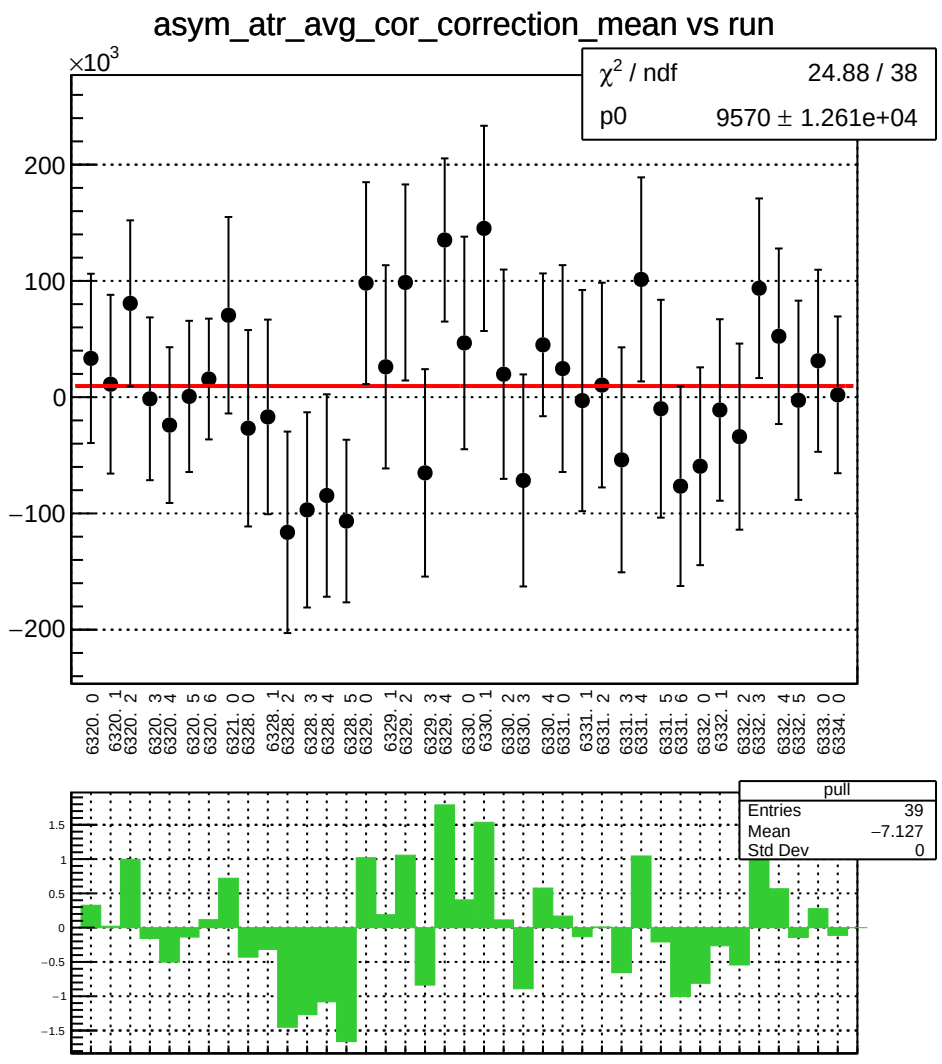

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 9571± 1.261e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.126
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01487
Std Dev 0.7986
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

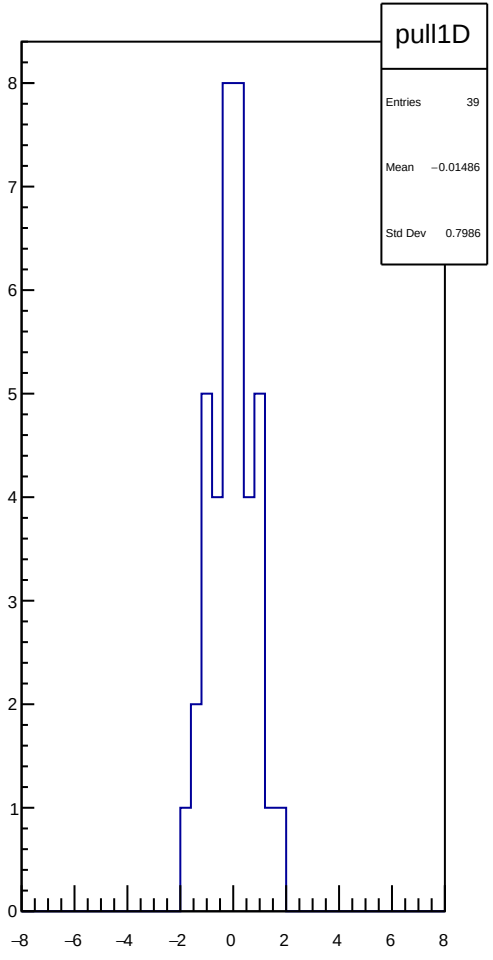

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 8661 / 38
p0 7721 ± 8.919
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

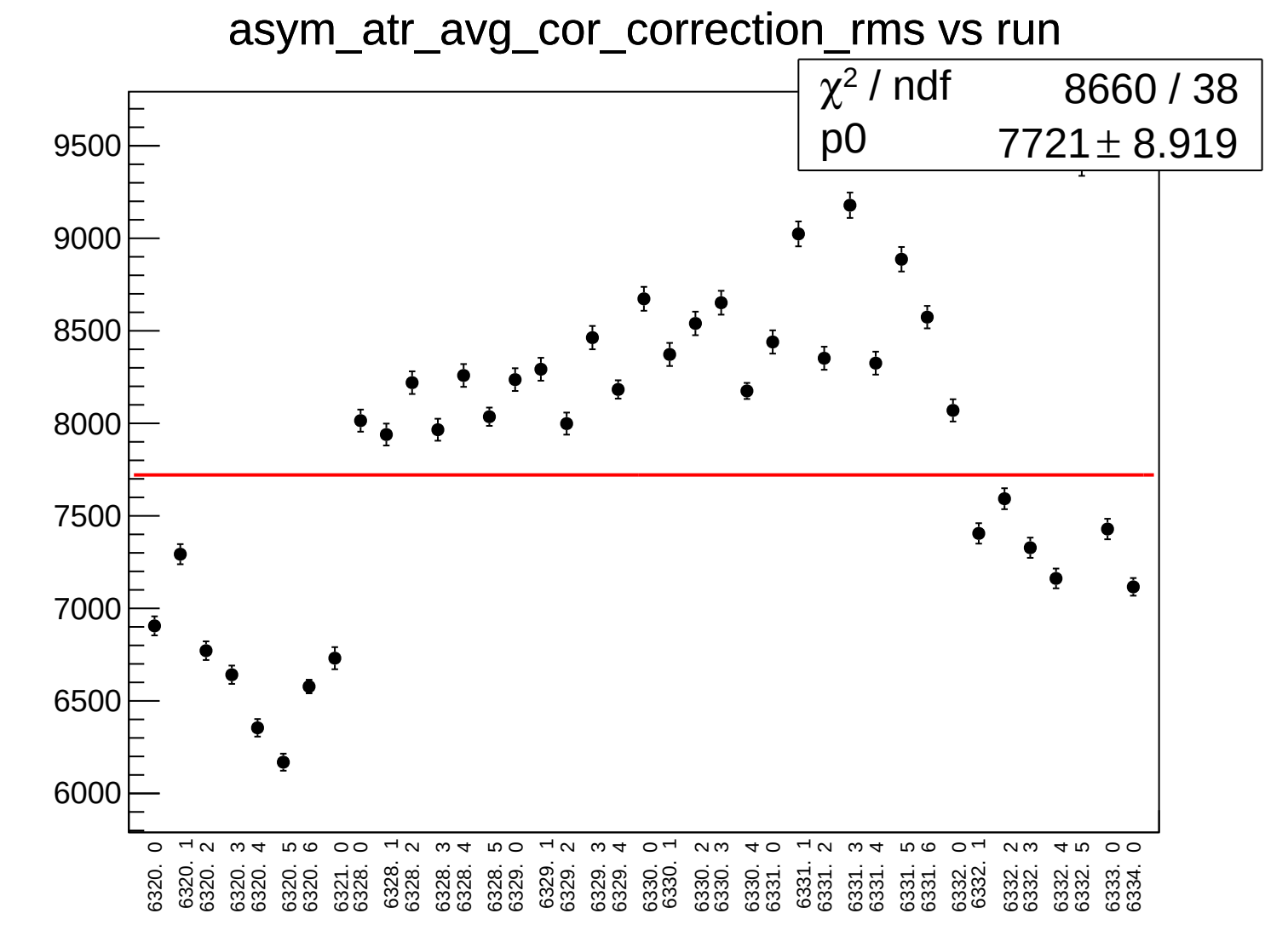

cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 21.41 / 38
p0 1.021e+04 ± 3911
pull
Entries 39
Mean −232
Std Dev 0

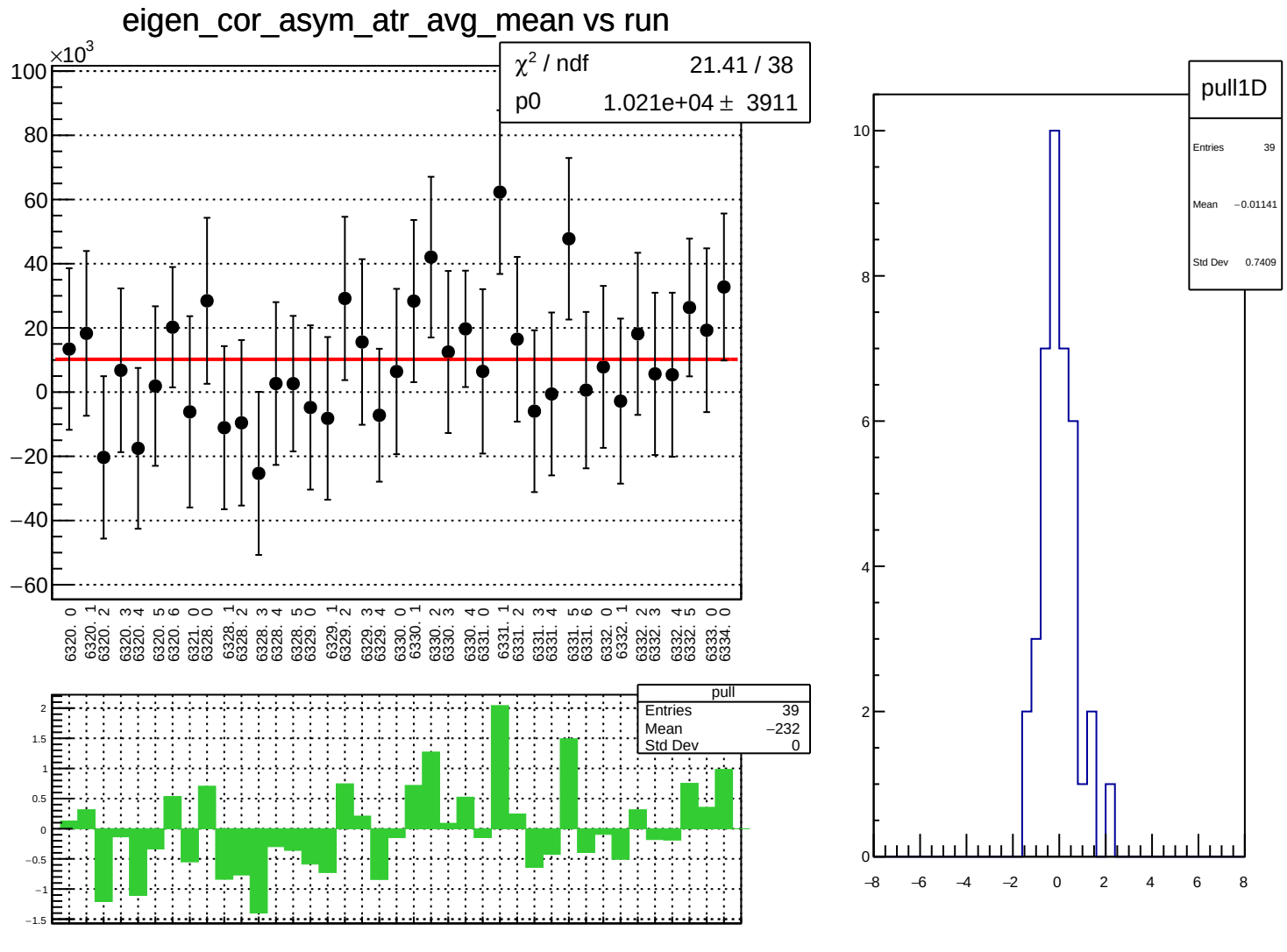

pull1D
Entries 39
Mean −0.01141
Std Dev 0.7409

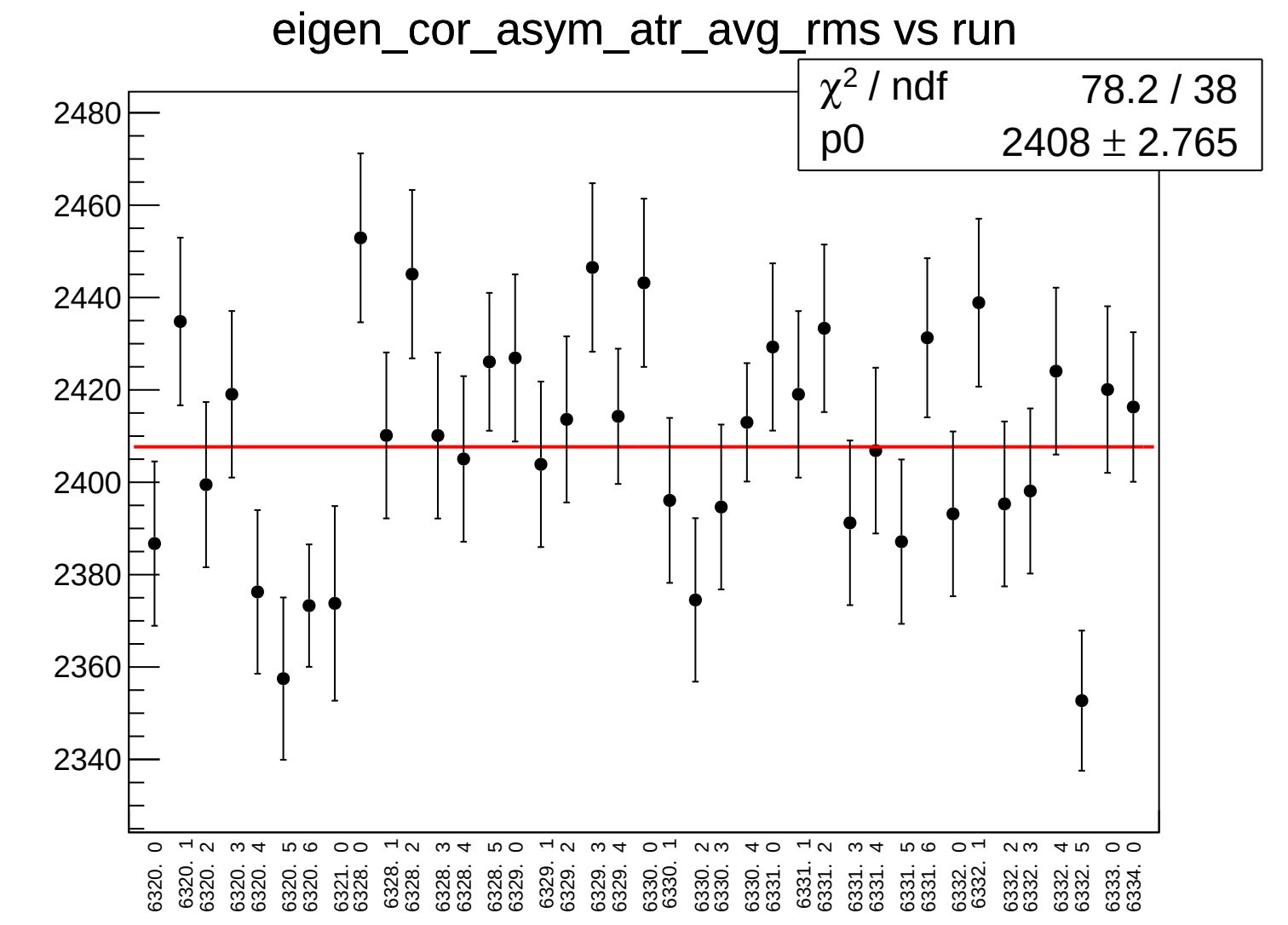

cor_asym_atr_avg_rms vs run
χ² / ndf 78.2 / 38
p0 2408 ± 2.765
2480
2460
2440
2420
2400
2380
2360
2340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

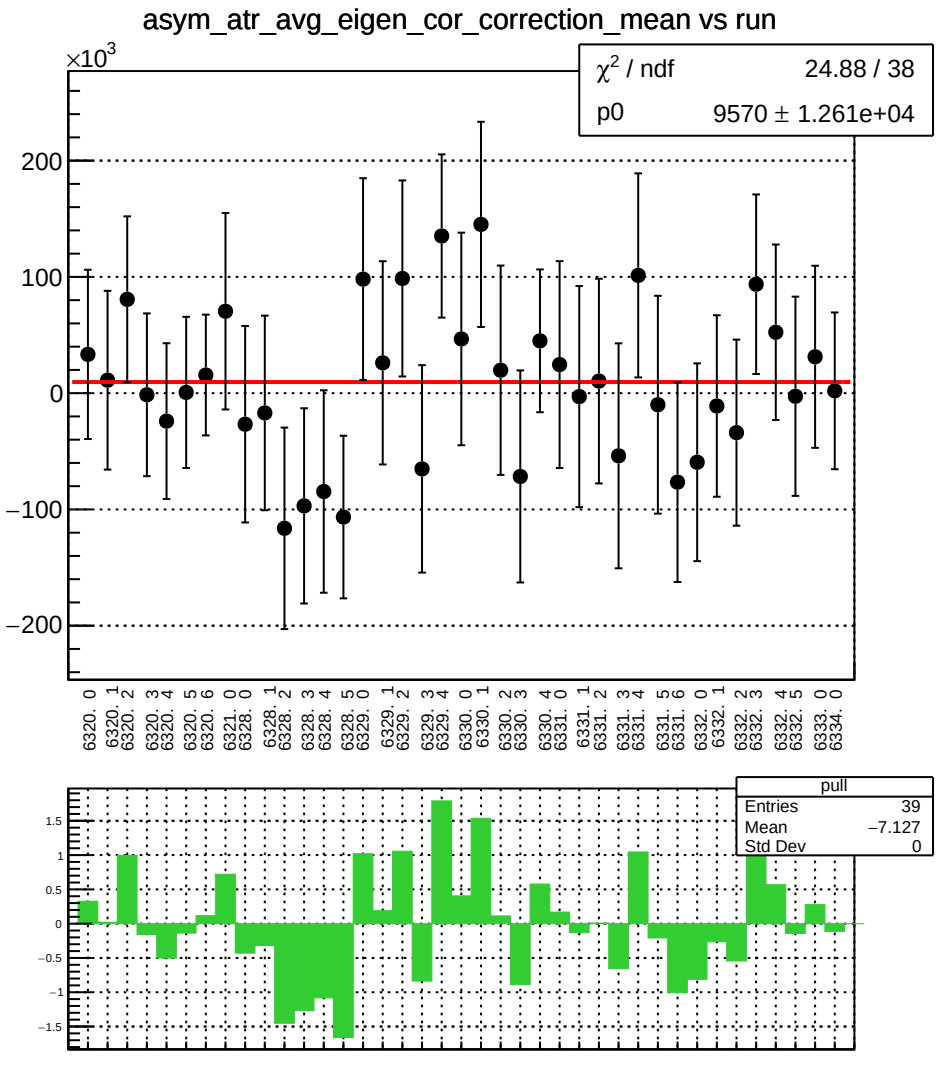

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 9570 ± 1.261e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.127
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

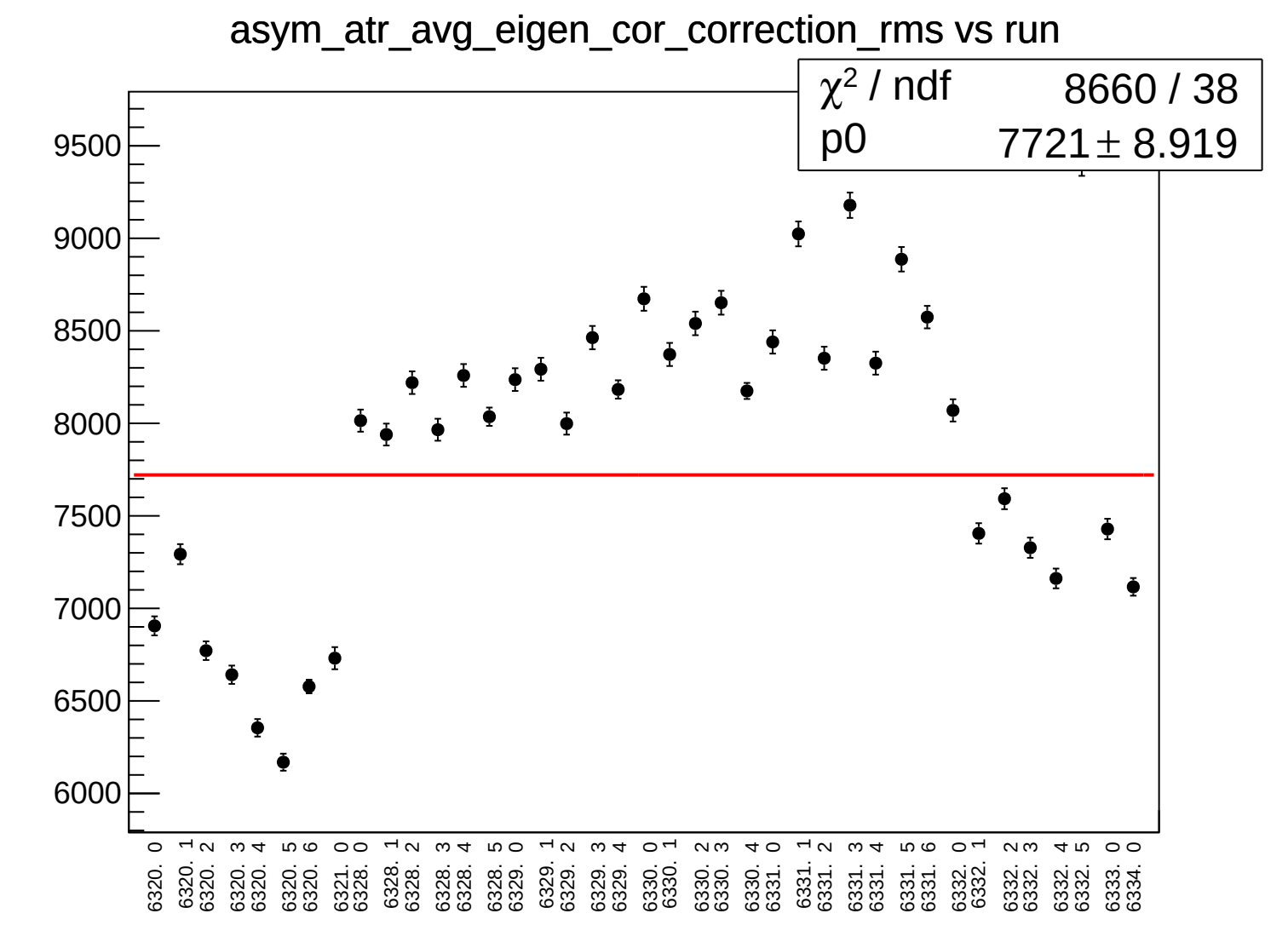

pull1D
Entries 39
Mean −0.01486
Std Dev 0.7986
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

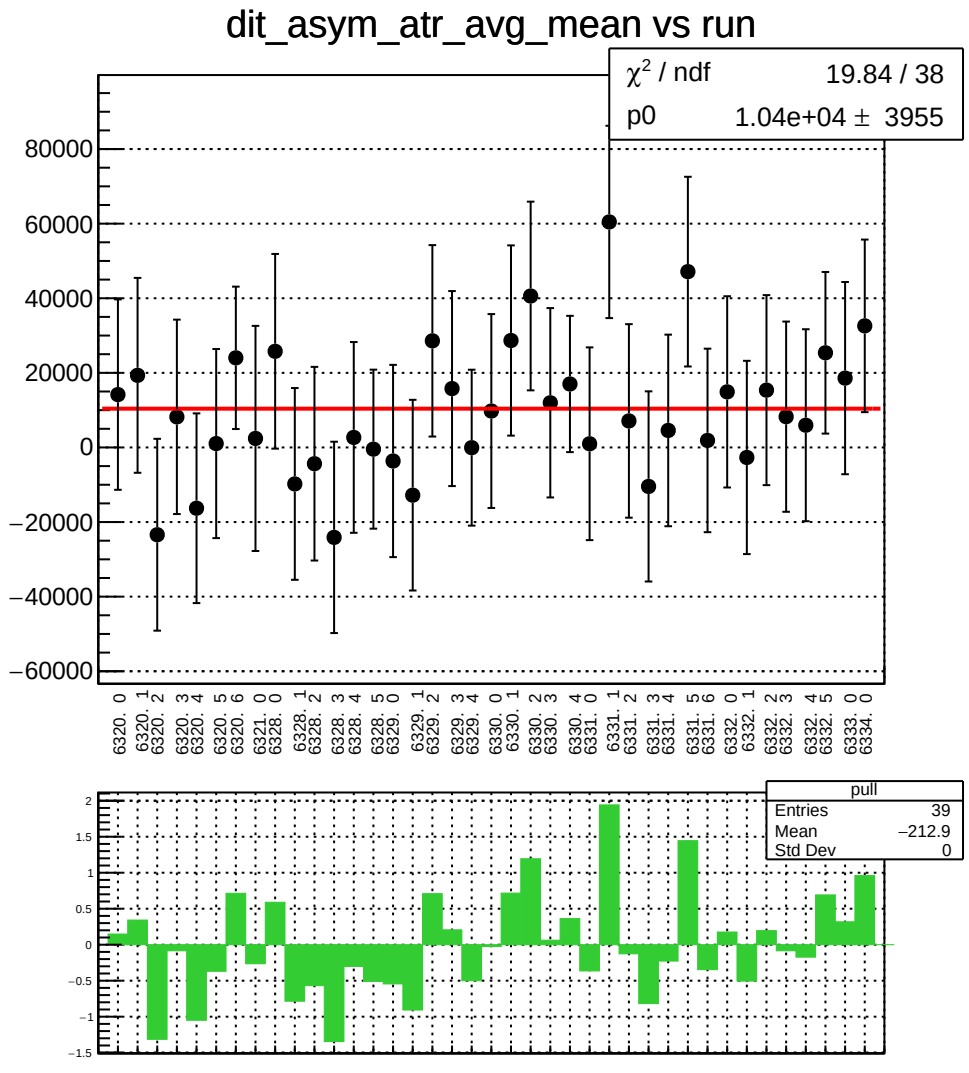

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 8660 / 38
p0 7721 ± 8.919
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

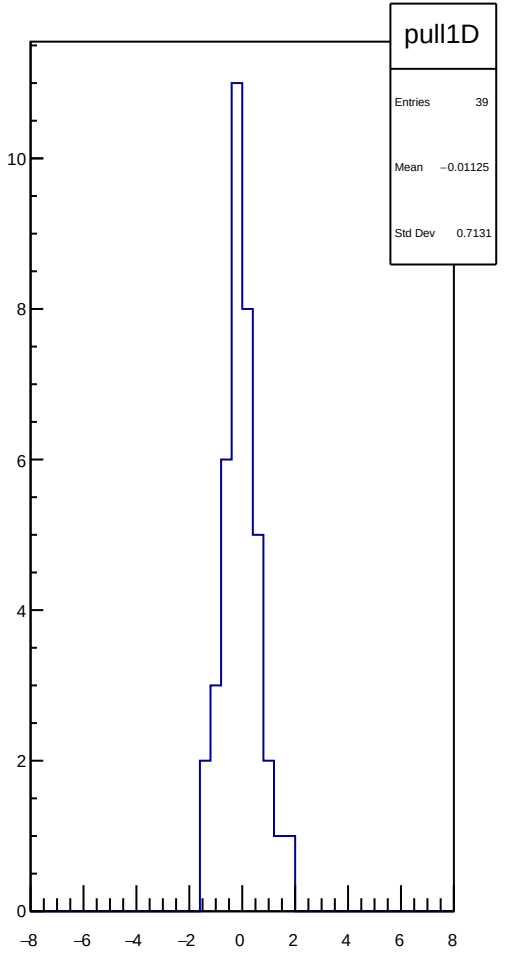

eigen_cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 21.41 / 38
p0 1.021e+04 ± 3911
pull
Entries 39
Mean −232
Std Dev 0
pull1D
Entries 39
Mean −0.01141
Std Dev 0.7409

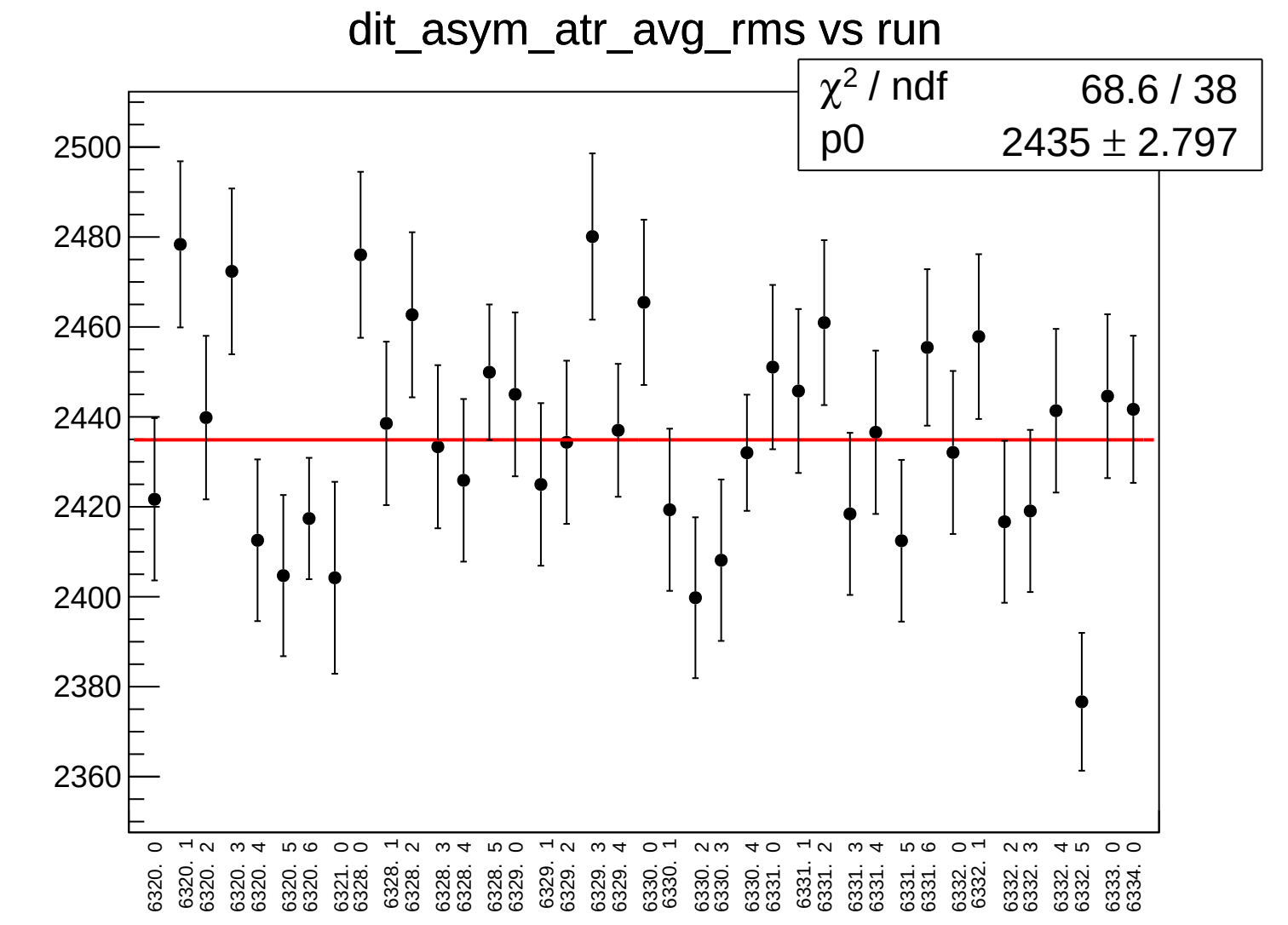

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 78.2 / 38
p0 2408 ± 2.765
2480
2460
2440
2420
2400
2380
2360
2340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

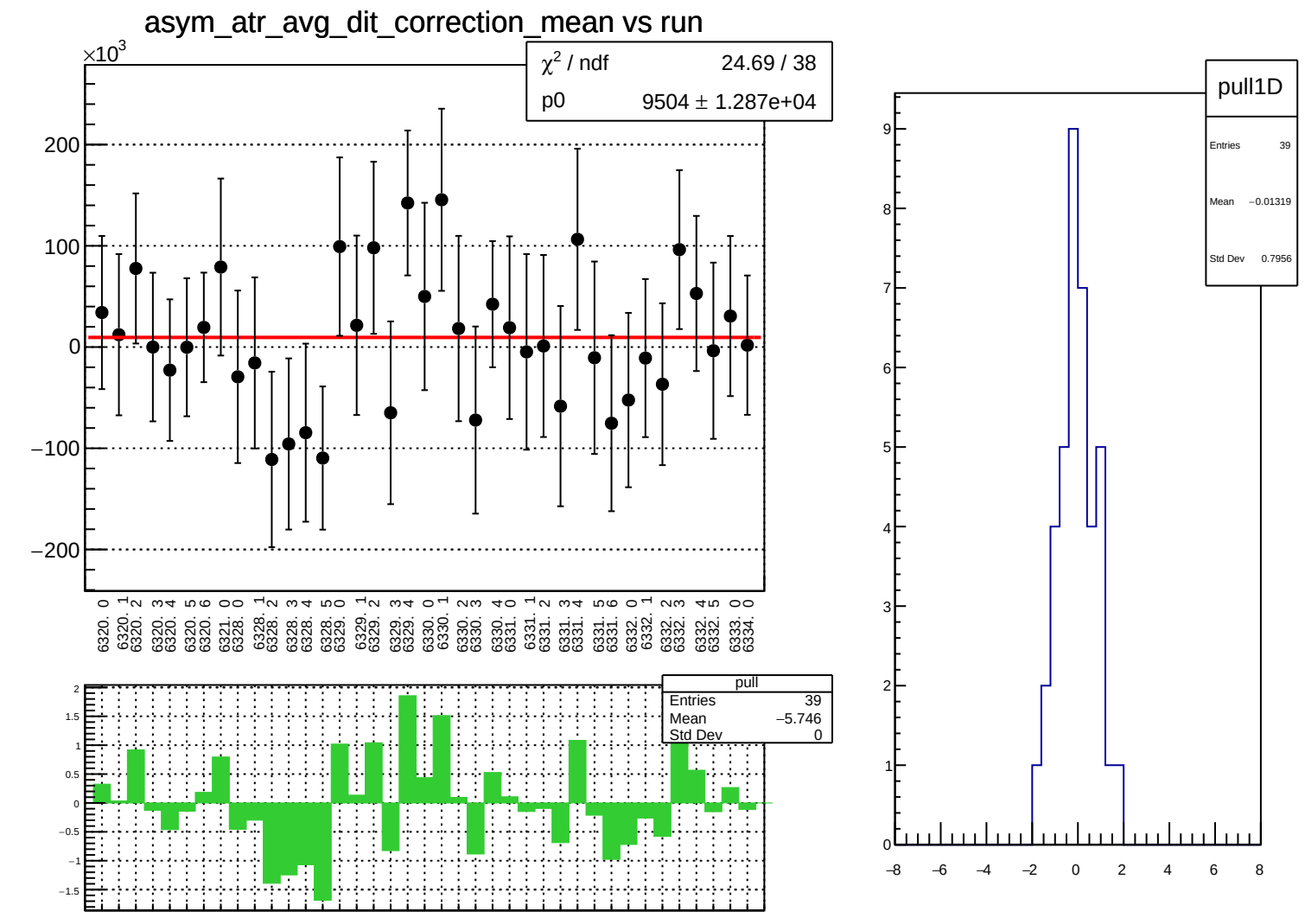

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 9570 ± 1.261e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.127
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01486
Std Dev 0.7986
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

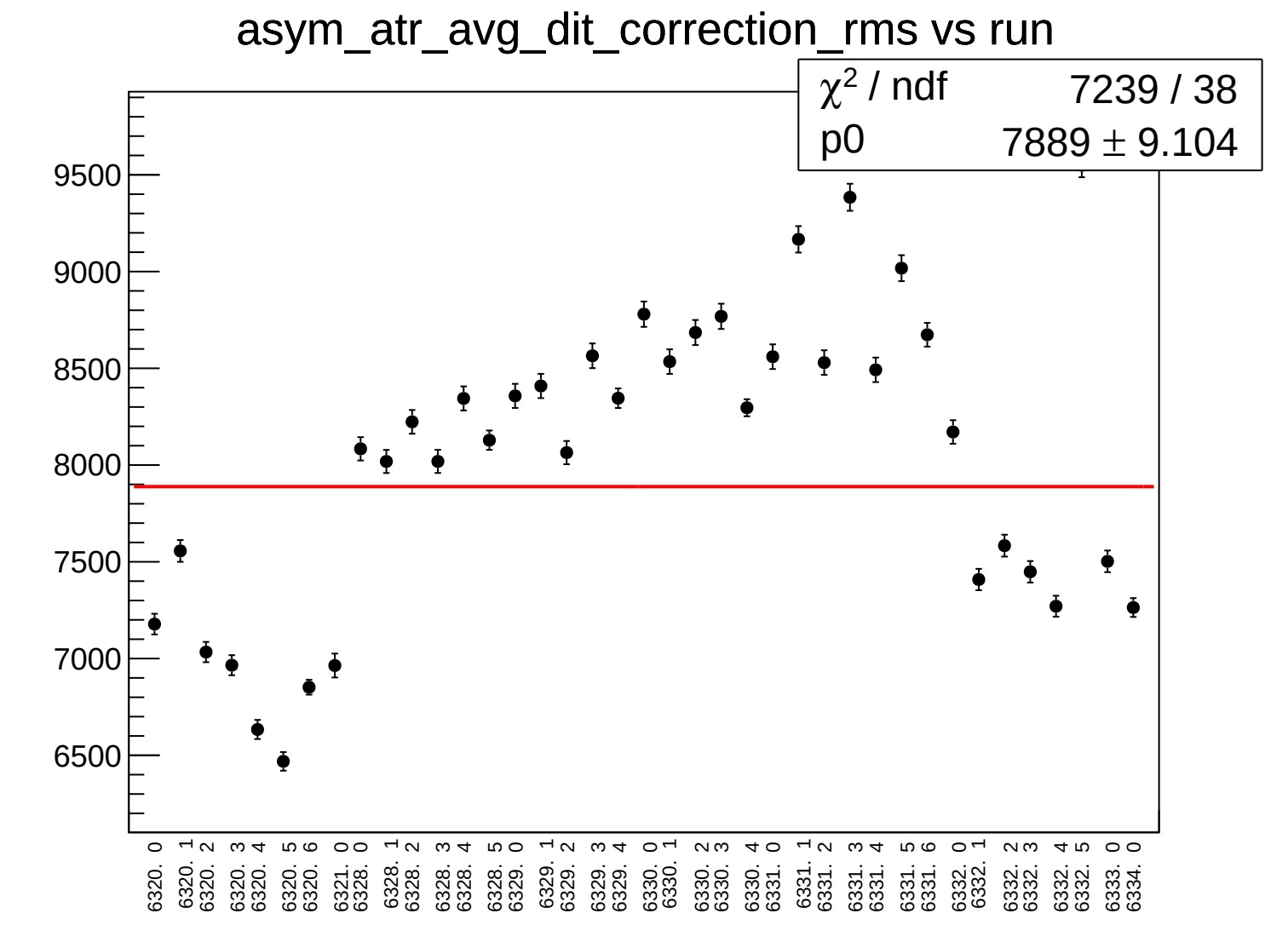

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 8660 / 38
p0 7721 ± 8.919
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

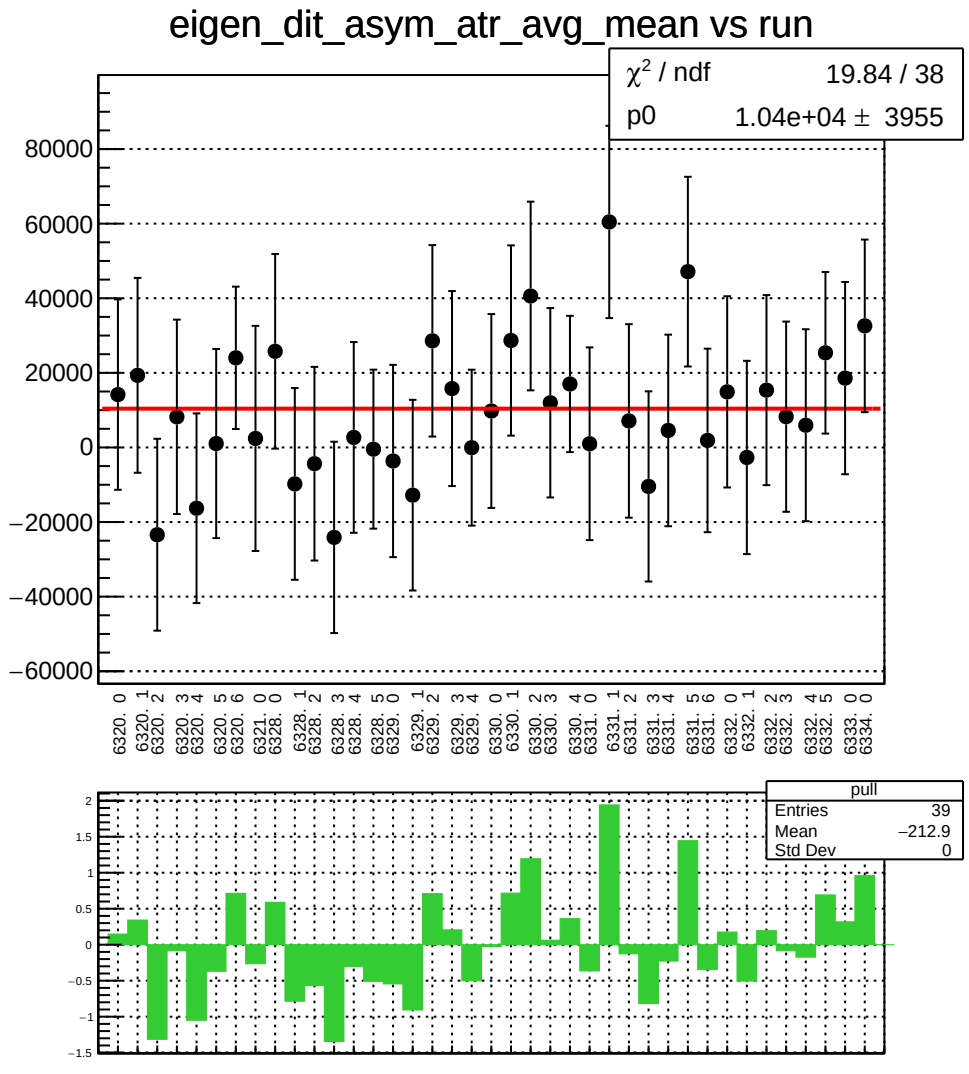

dit_asym_atr_avg_mean vs run
χ² / ndf 19.84 / 38
p0 1.04e+04 ± 3955
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −212.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

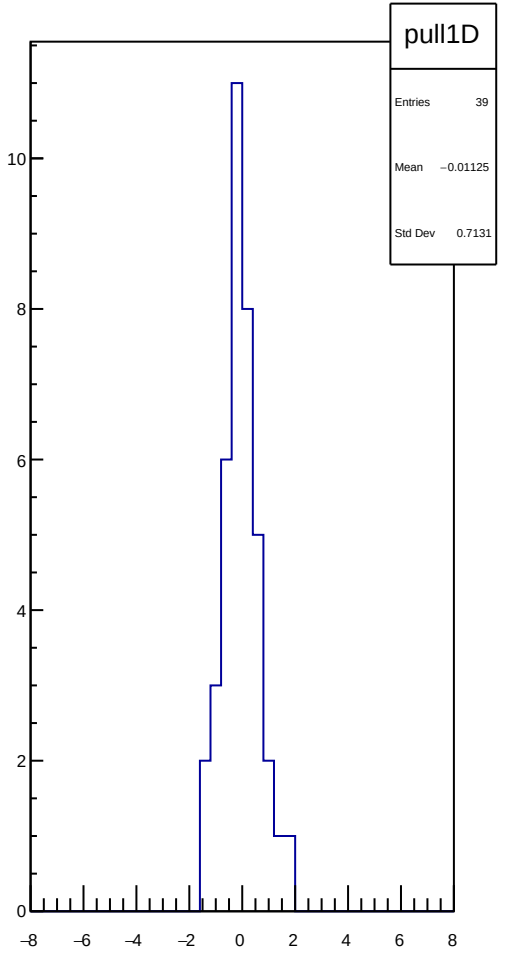

pull1D
Entries 39
Mean −0.01125
Std Dev 0.7131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

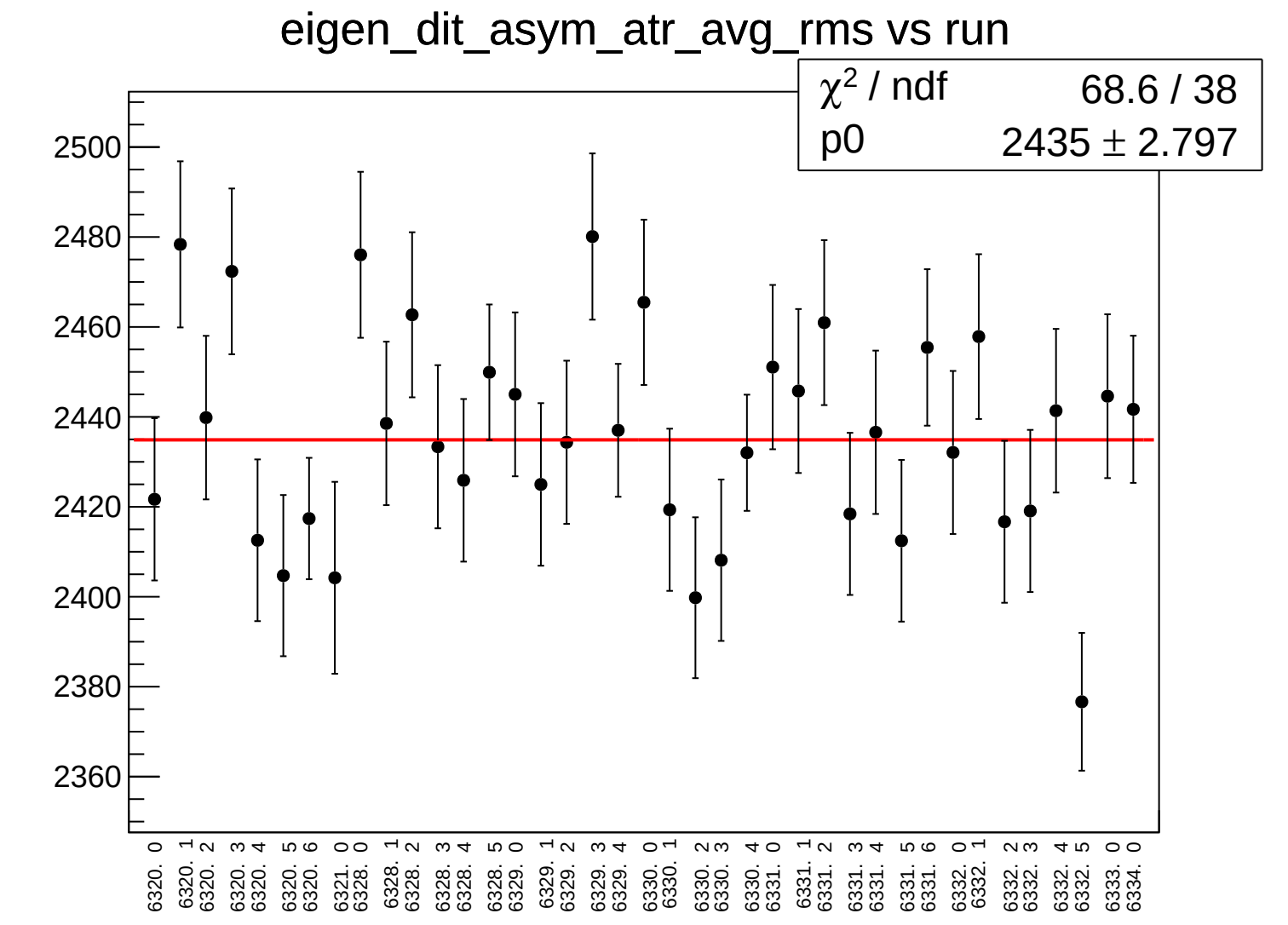

dit_asym_atr_avg_rms vs run
χ² / ndf 68.6 / 38
p0 2435 ± 2.797
2500
2480
2460
2440
2420
2400
2380
2360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

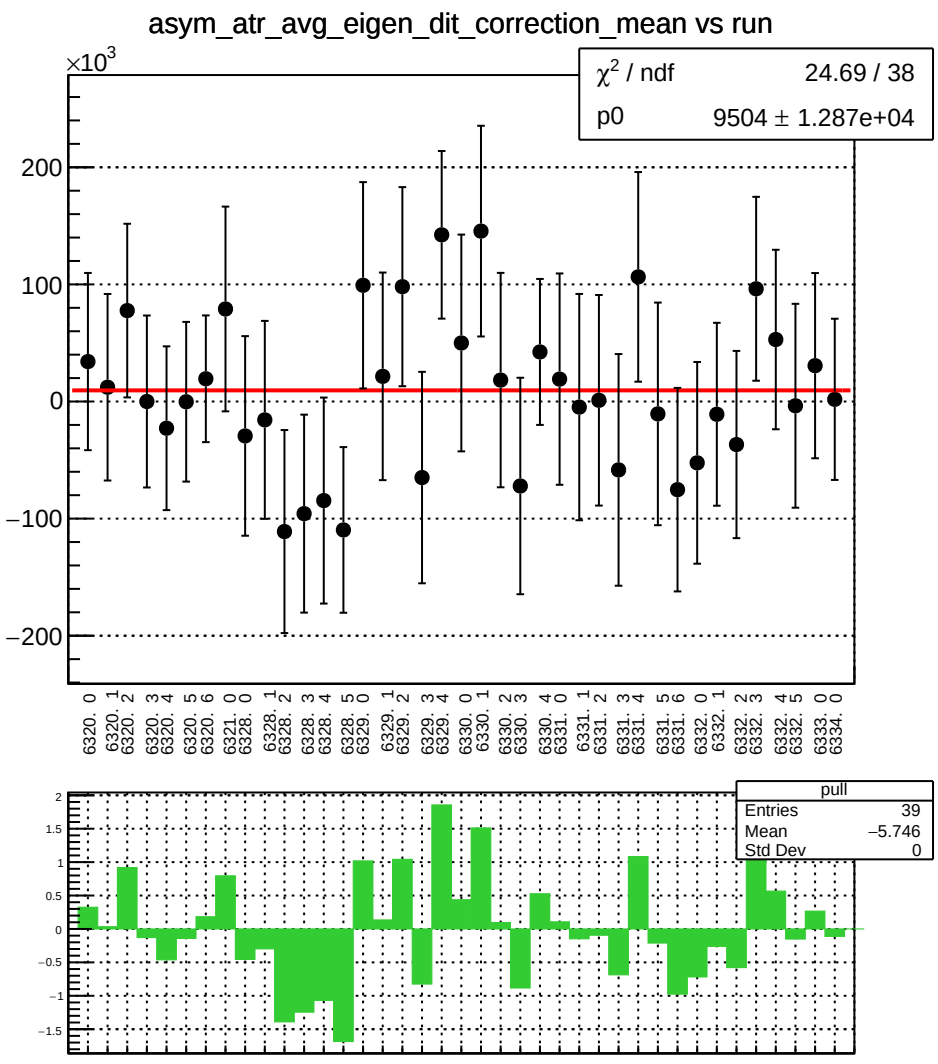

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.69 / 38
p0 9504 ± 1.287e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.746
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01319
Std Dev 0.7956
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

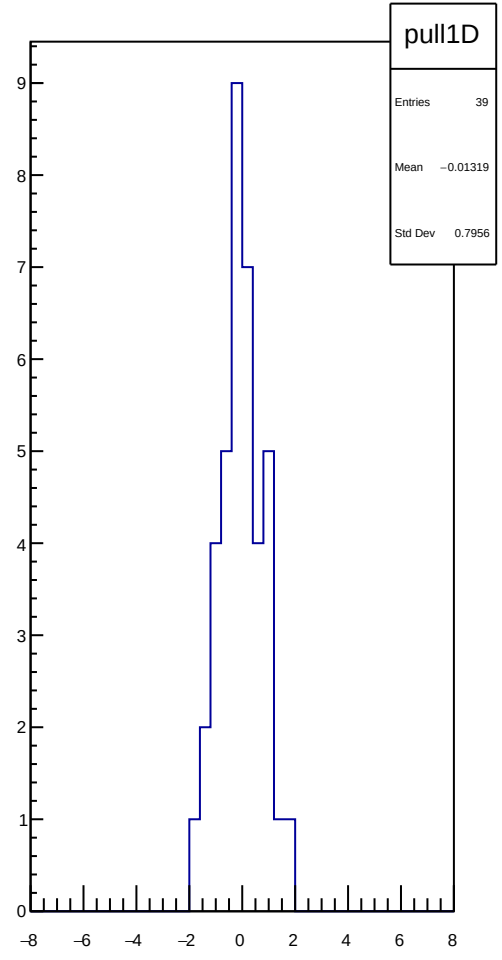

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 7239 / 38
p0 7889 ± 9.104
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

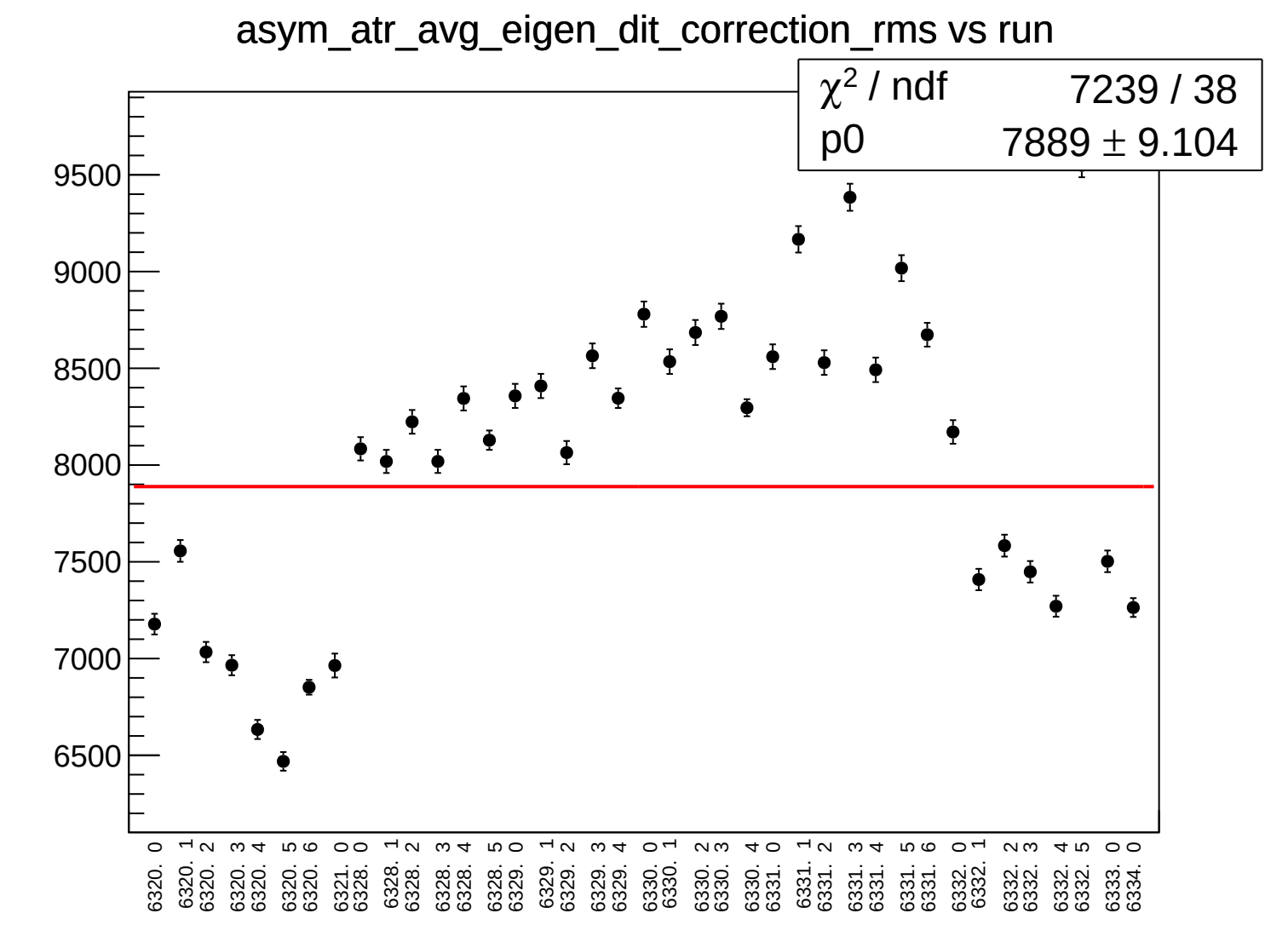

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 19.84 / 38
p0 1.04e+04 ± 3955
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −212.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

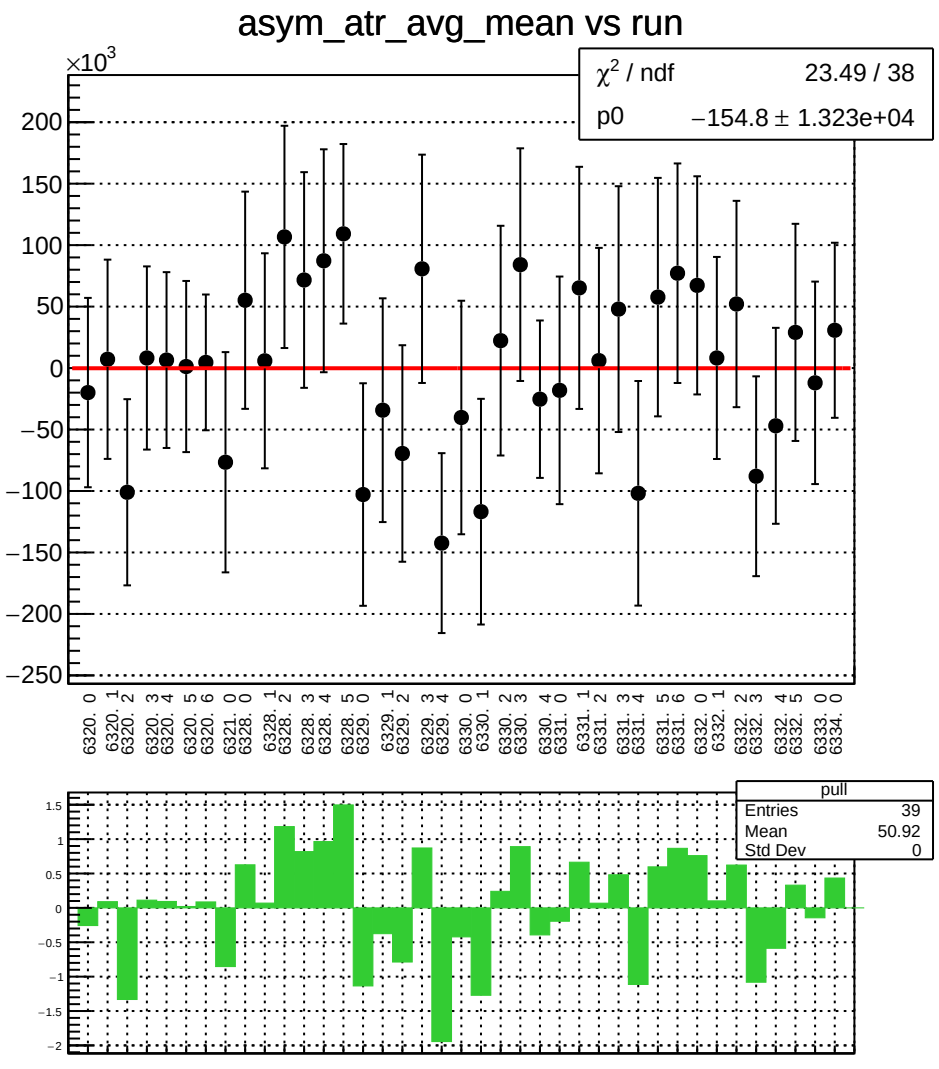

pull1D
Entries 39
Mean −0.01125
Std Dev 0.7131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

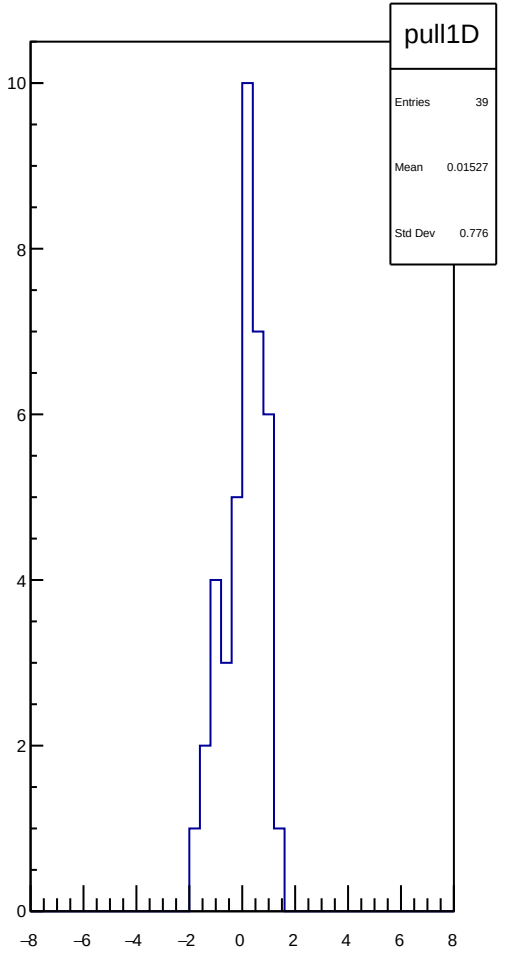

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 68.6 / 38
p0 2435 ± 2.797
2500
2480
2460
2440
2420
2400
2380
2360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

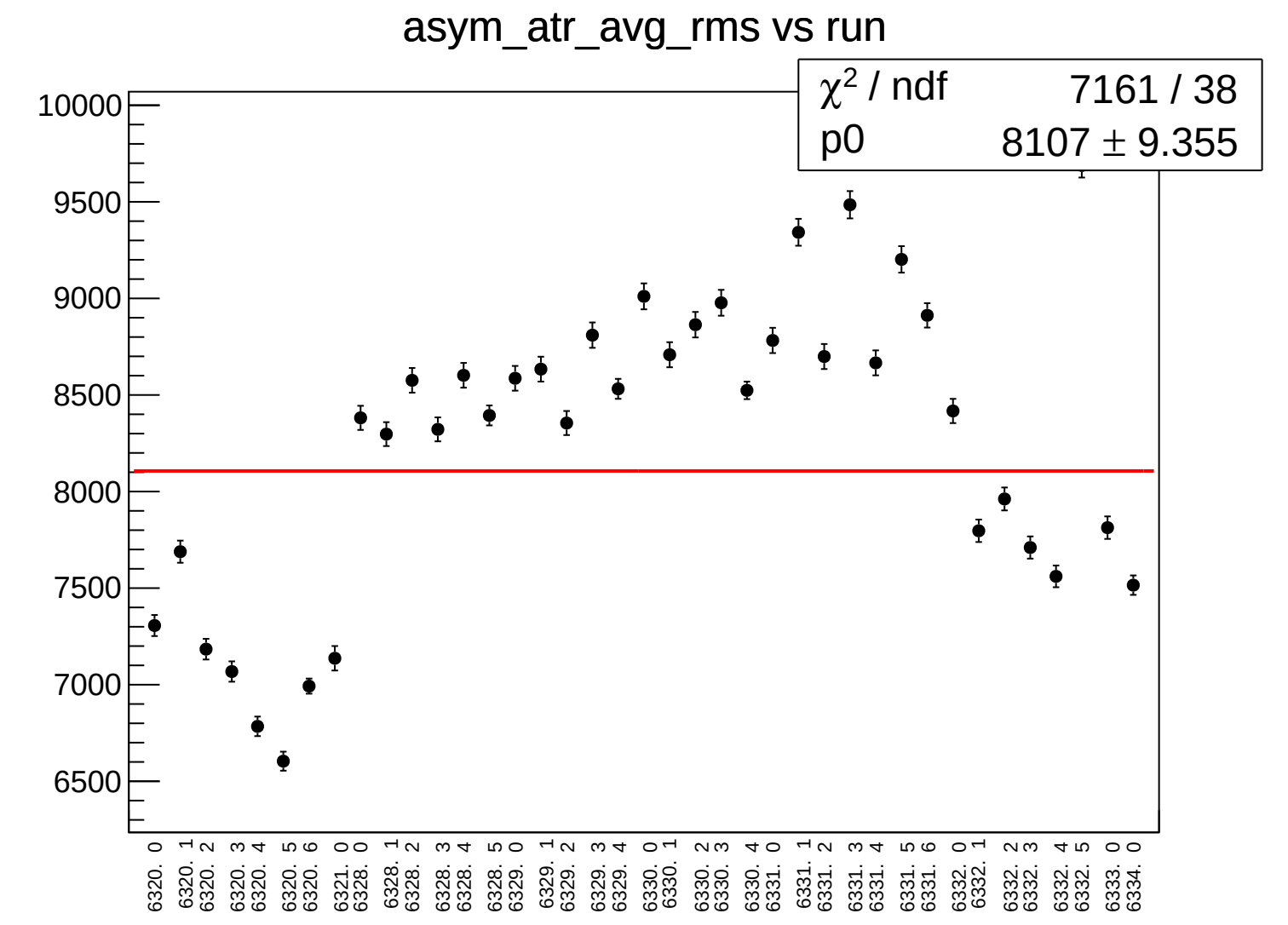

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.69 / 38
p0 9504 ± 1.287e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.746
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

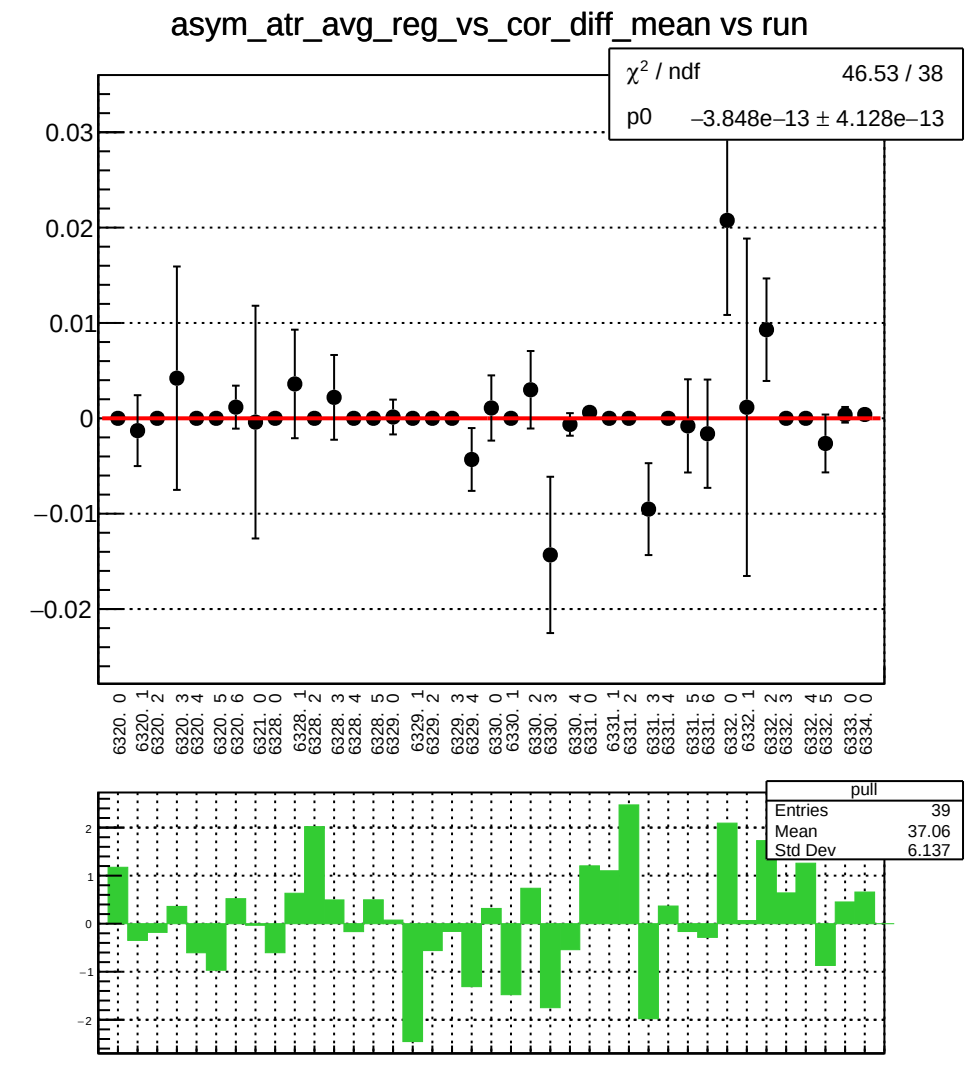

pull1D
Entries 39
Mean −0.01319
Std Dev 0.7956
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

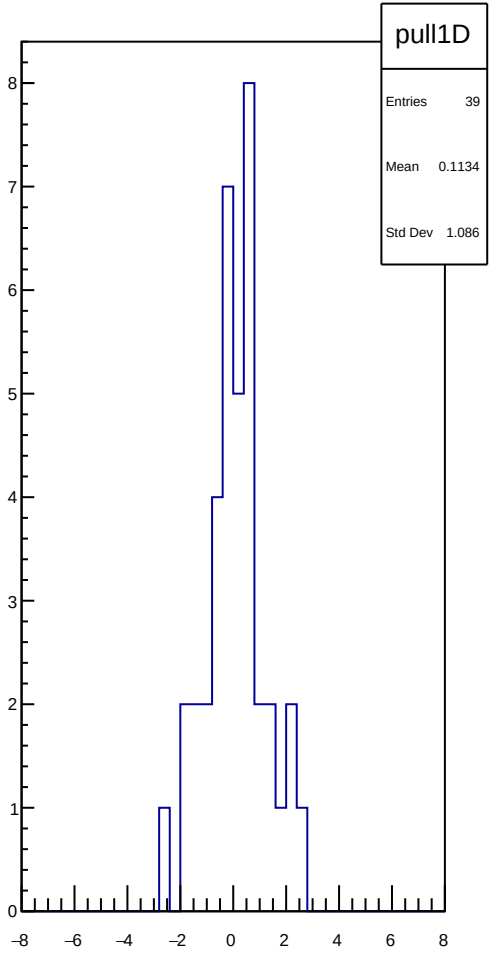

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 7239 / 38
p0 7889 ± 9.104
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

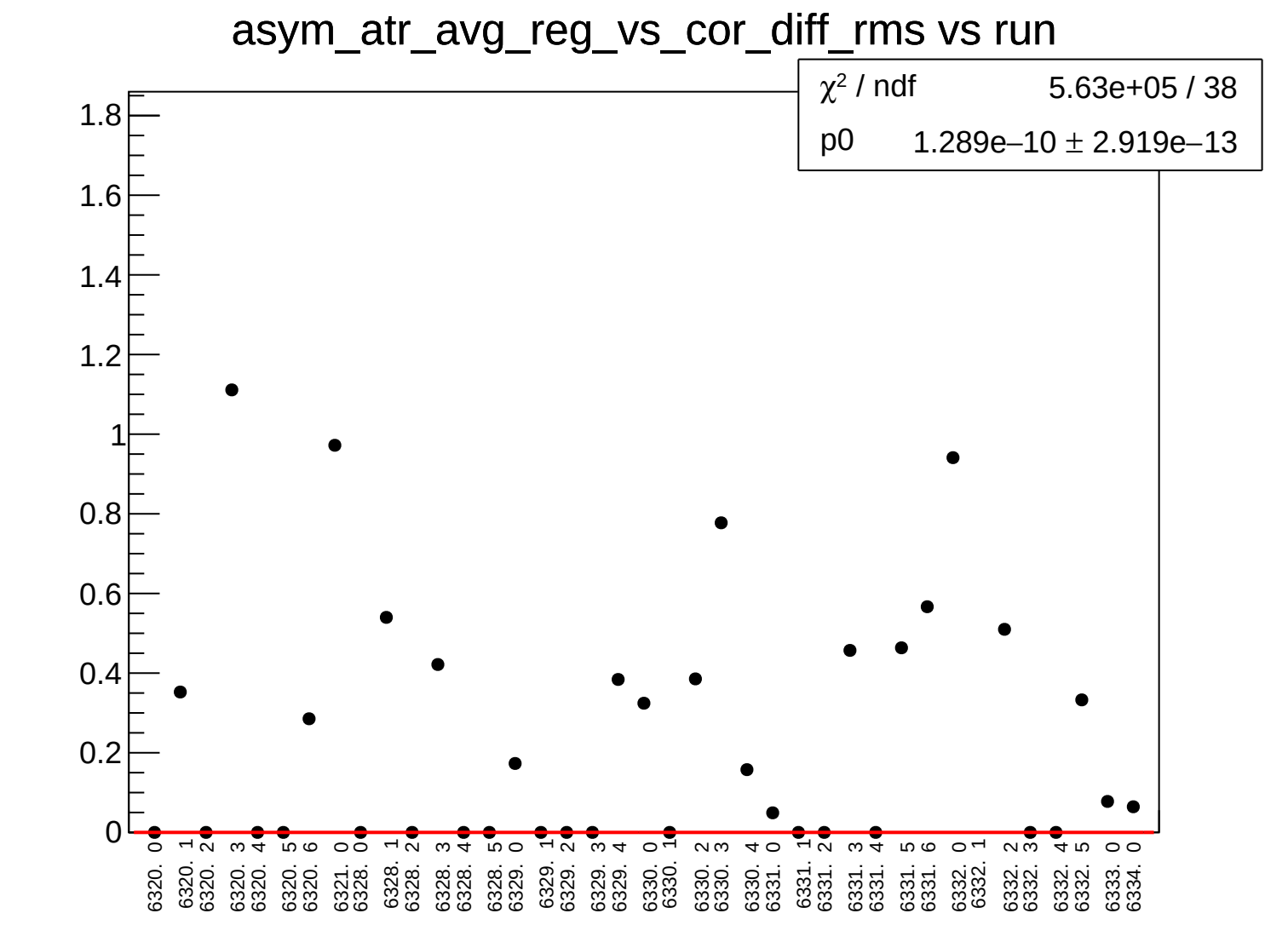

asym_atr_avg_mean vs run
×10^3
χ² / ndf 23.49 / 38
p0 −154.8 ± 1.323e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

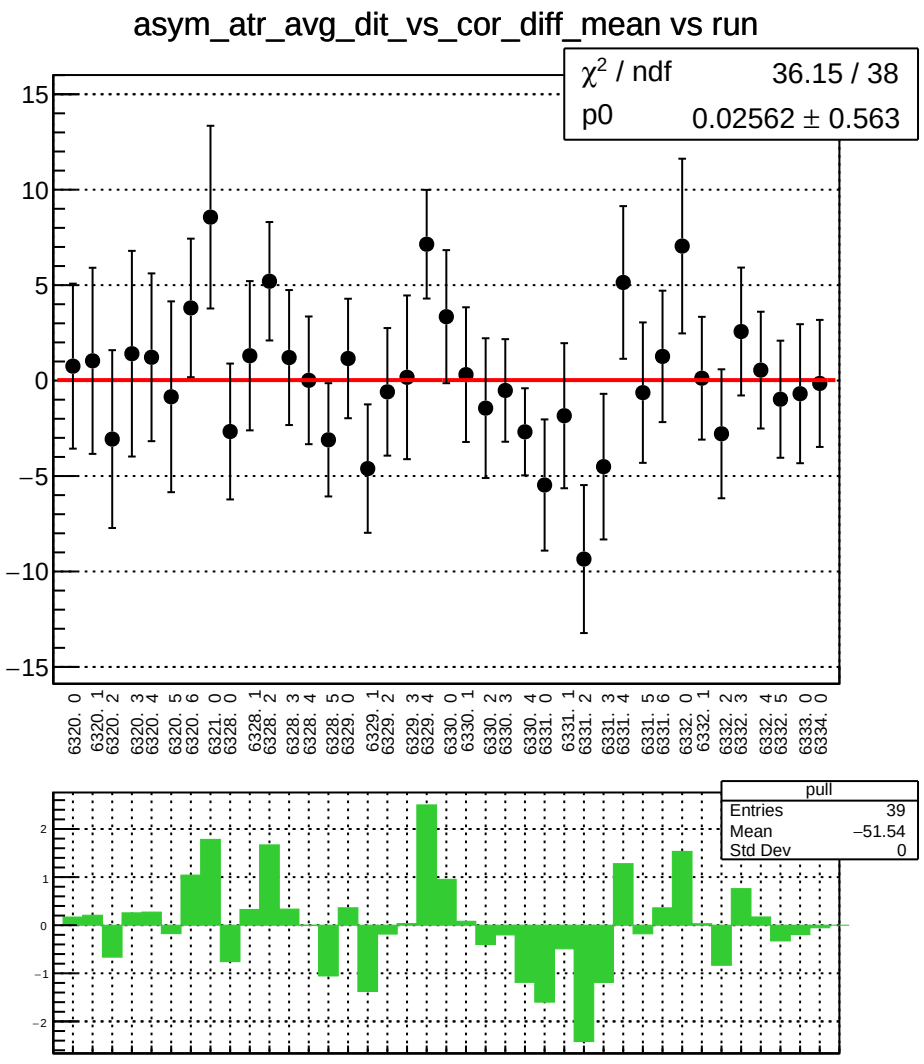

pull1D
Entries 39
Mean 0.01527
Std Dev 0.776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

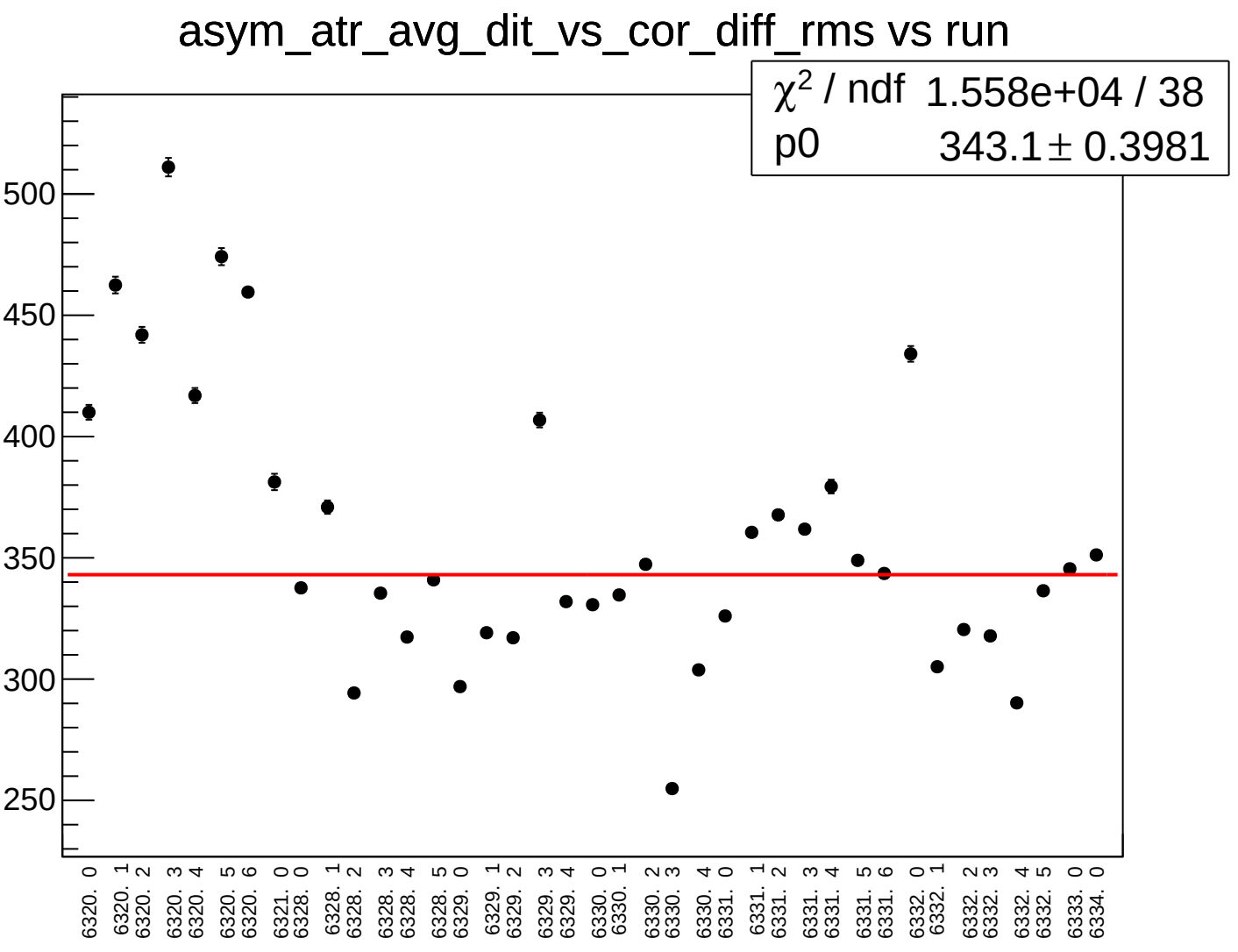

asym_atr_avg_rms vs run
χ² / ndf 7161 / 38
p0 8107 ± 9.355
10000
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

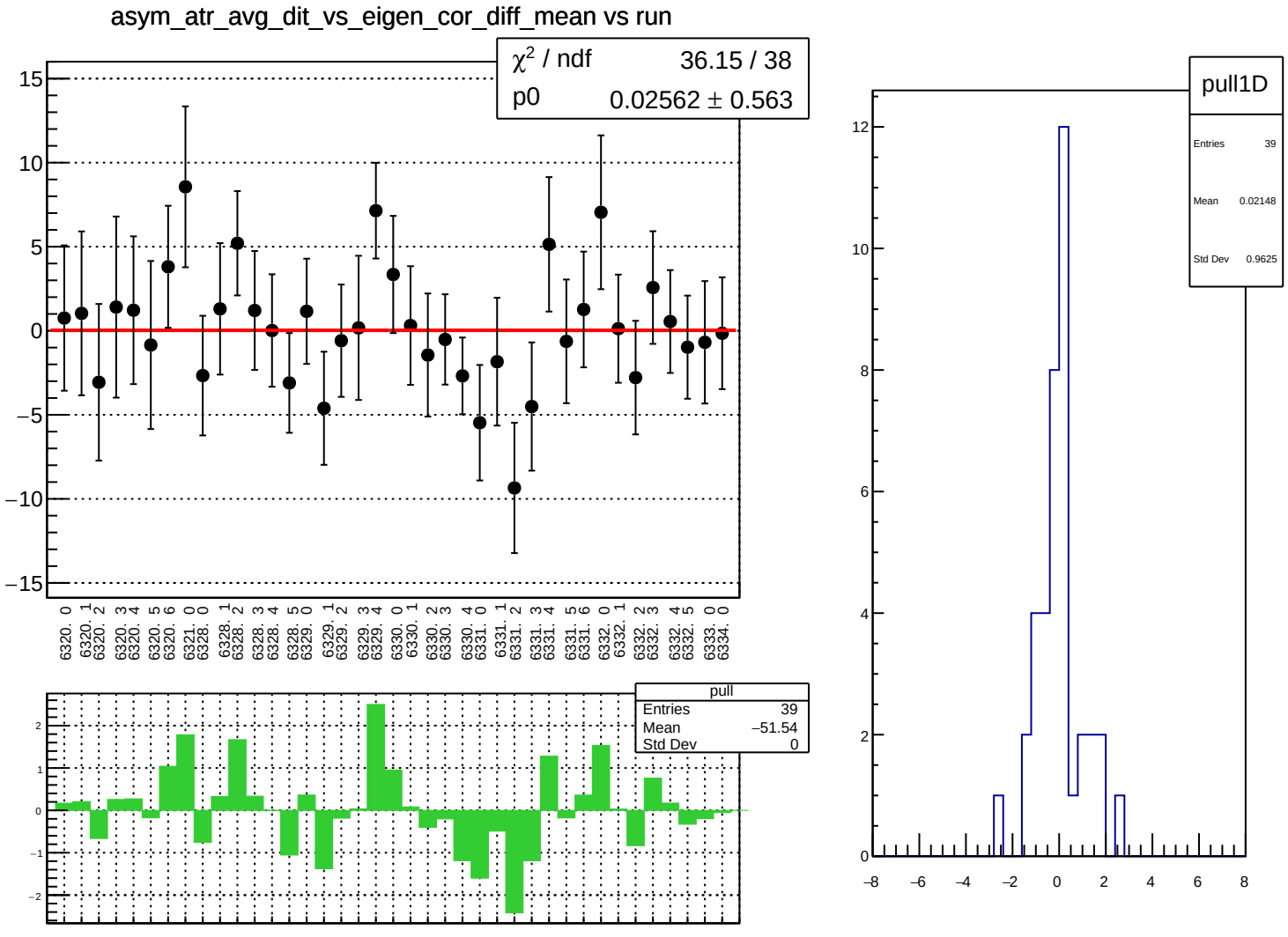

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.53 / 38
p0 −3.848e−13 ± 4.128e−13
0.03
0.02
0.01
0
−0.01
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.06
Std Dev 6.137
2
1
0
−1
−2

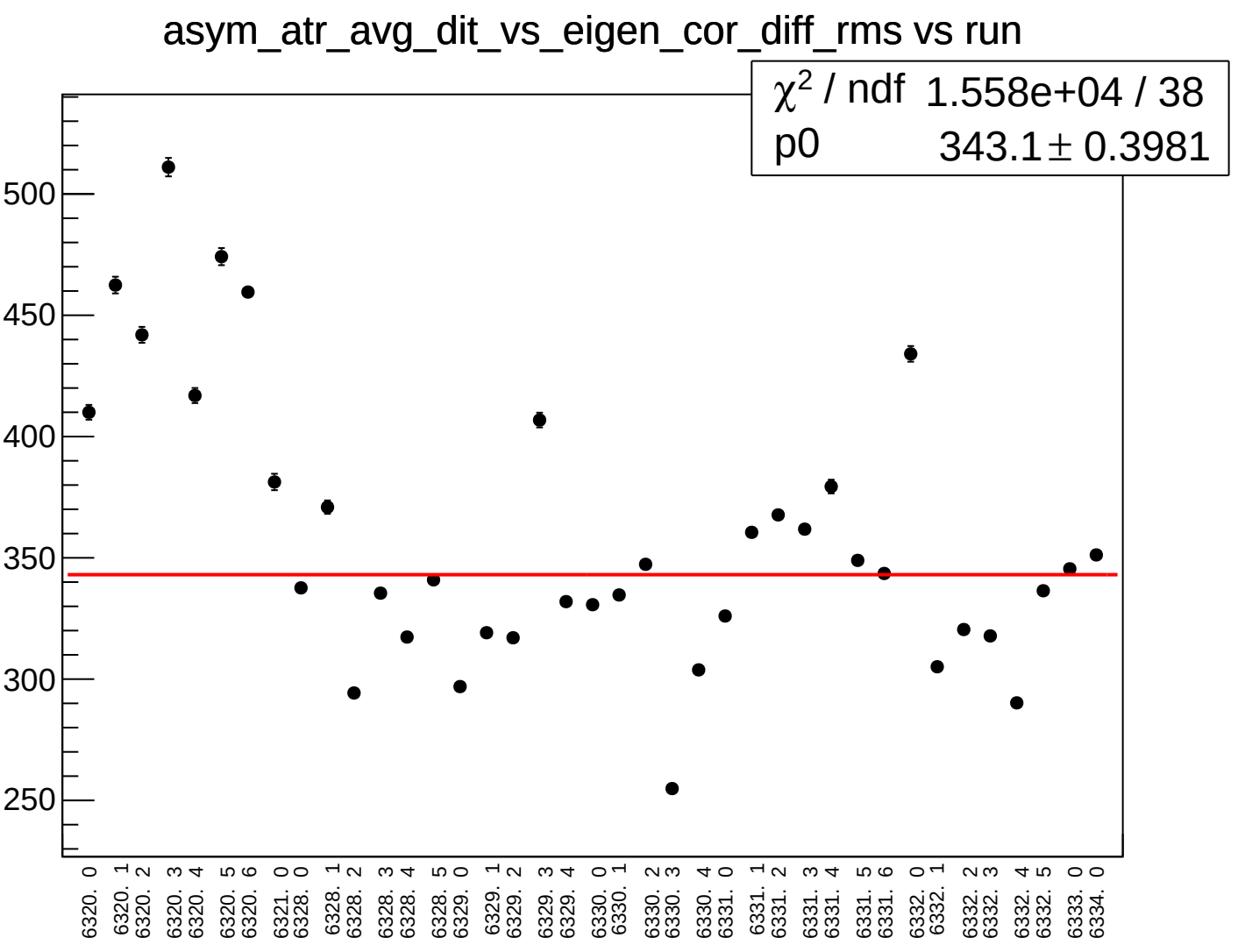

pull1D
Entries 39
Mean 0.1134
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

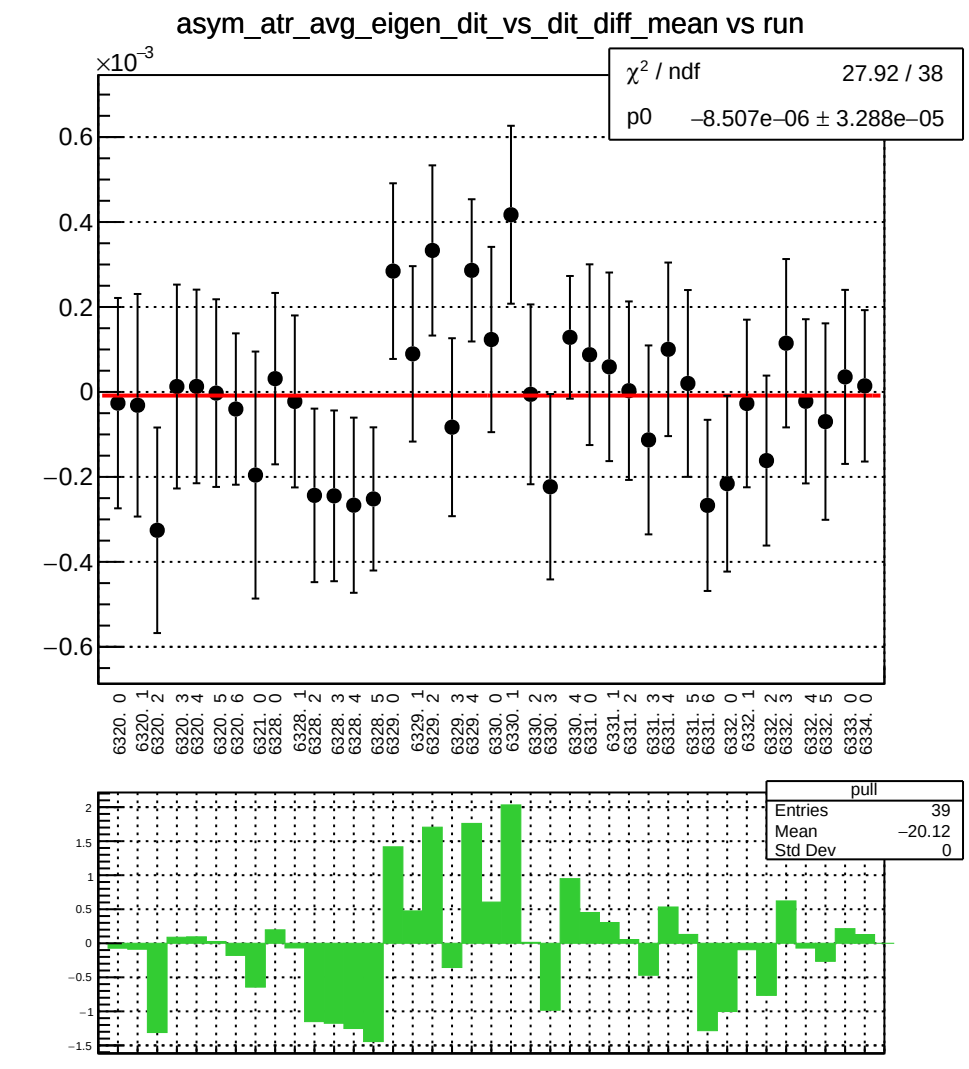

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.63e+05 / 38
p0 1.289e−10 ± 2.919e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

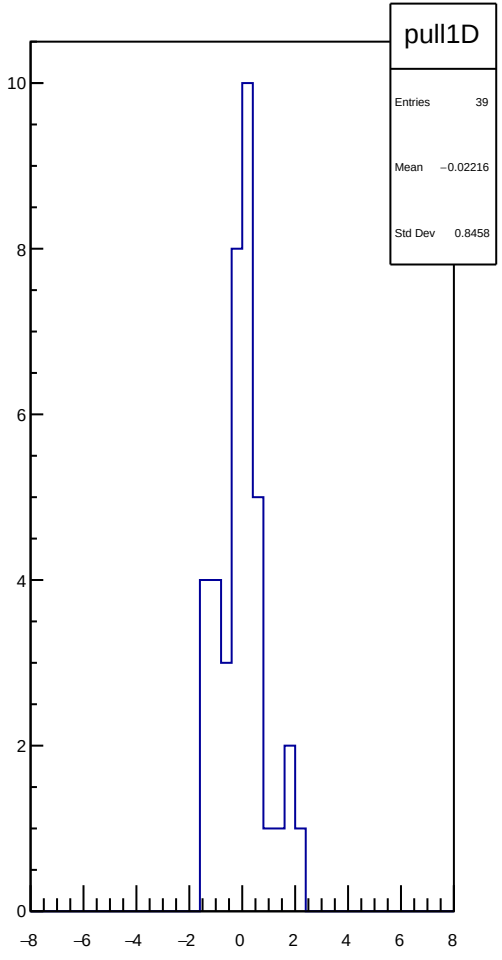

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.15 / 38
p0 0.02562 ± 0.563
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02148
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

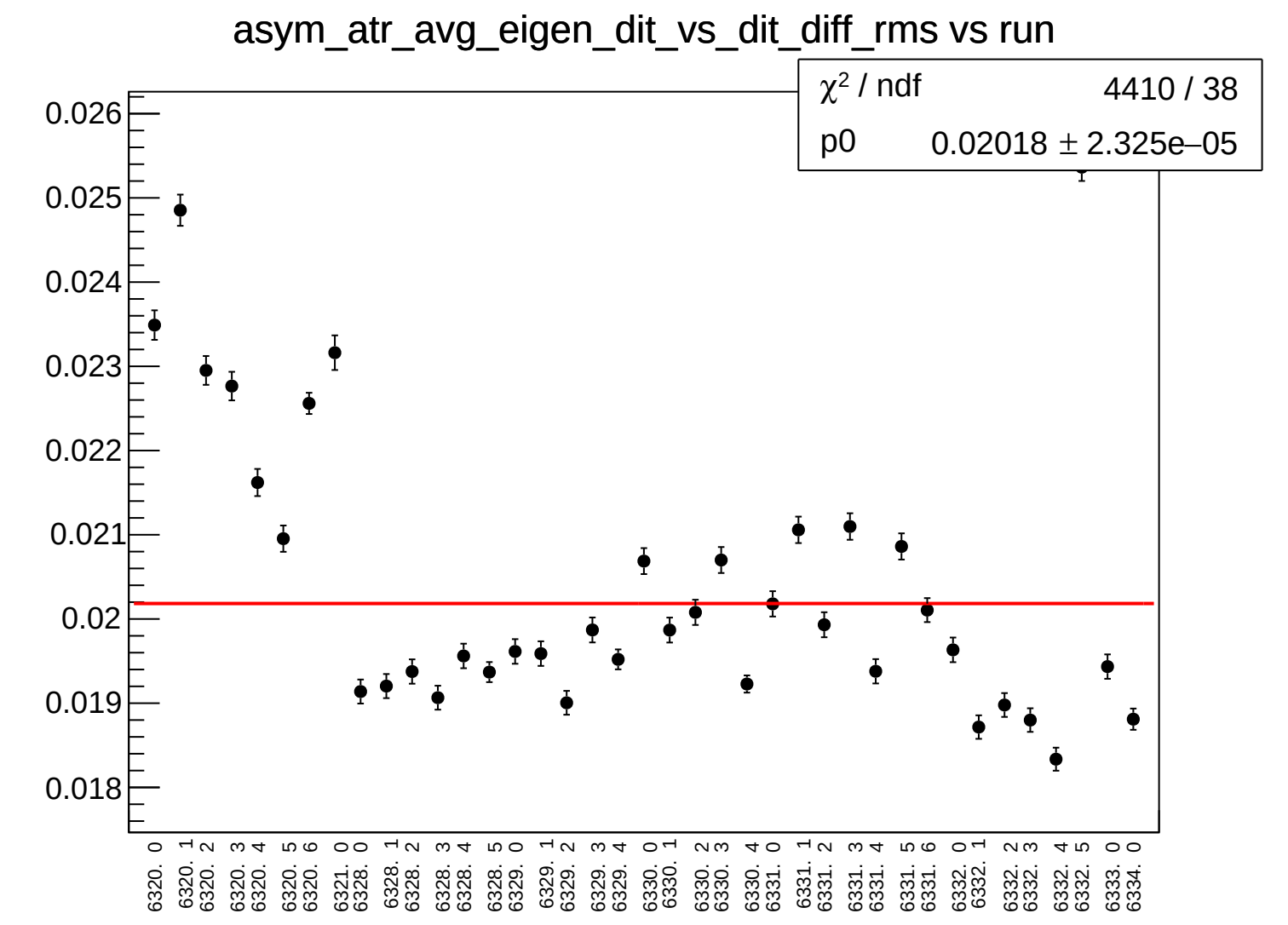

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.558e+04 / 38
p0 343.1 ± 0.3981
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

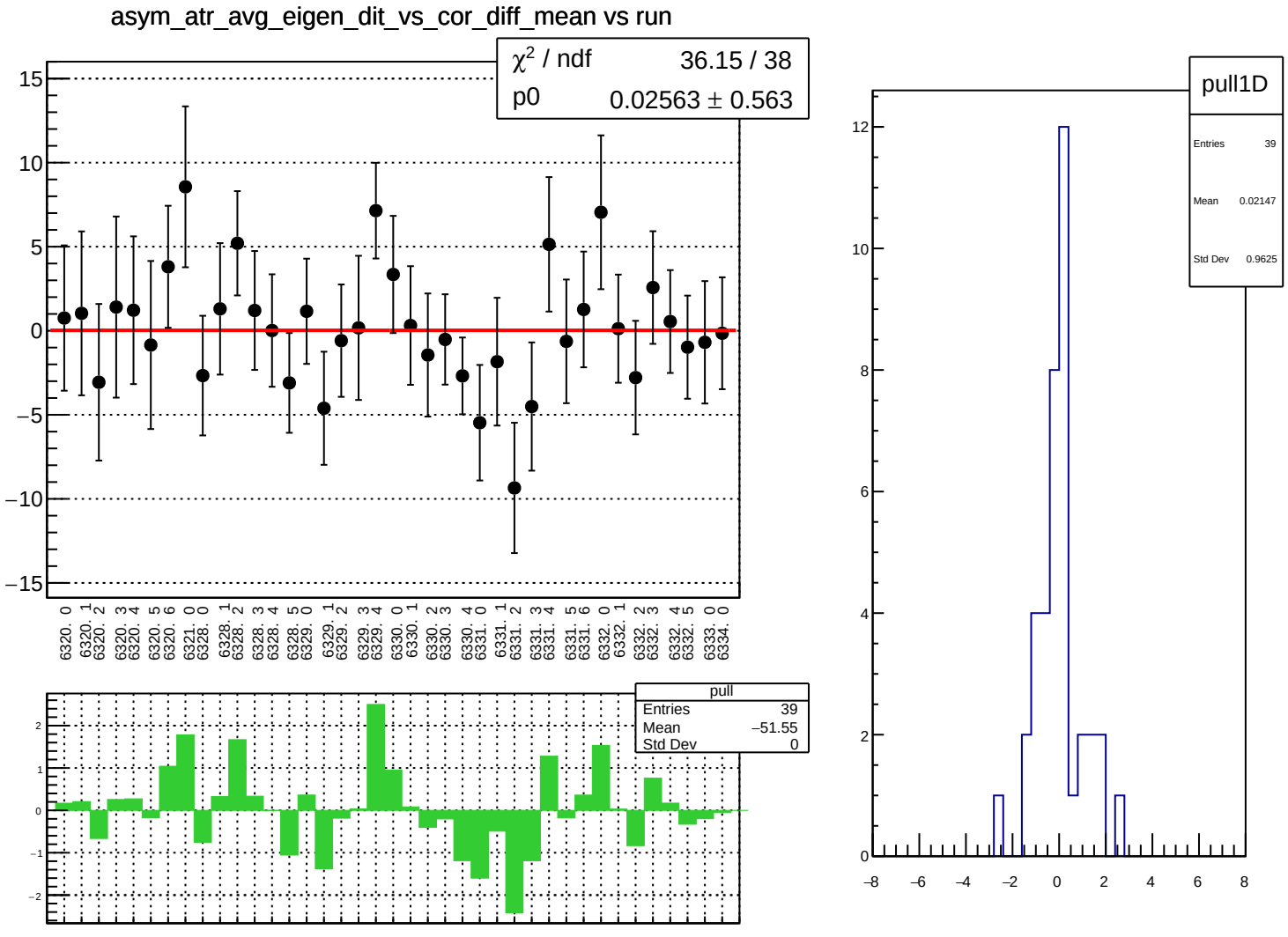

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.15 / 38
p0 0.02562 ± 0.563
pull
Entries 39
Mean −51.54
Std Dev 0
pull1D
Entries 39
Mean 0.02148
Std Dev 0.9625

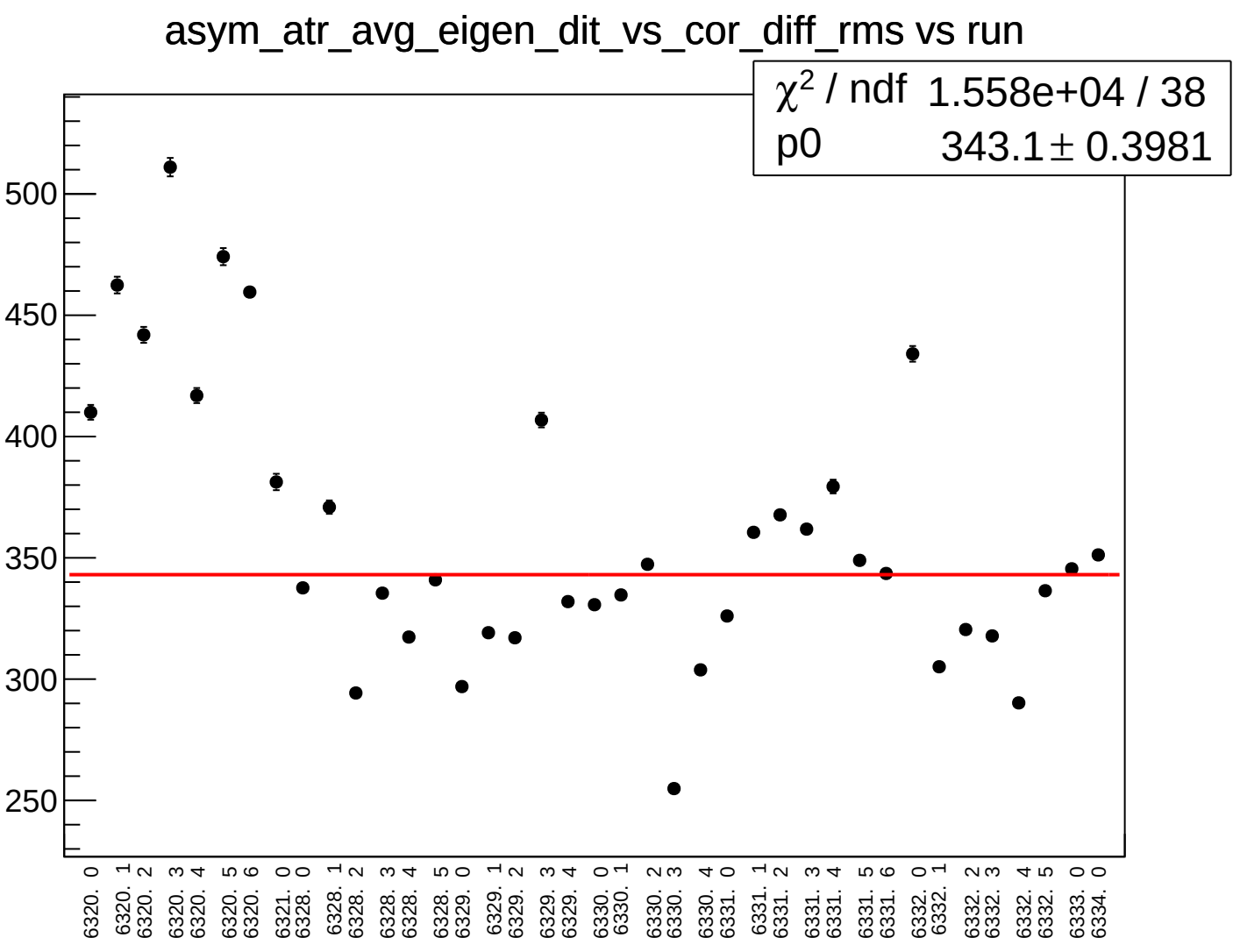

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.558e+04 / 38
p0 343.1 ± 0.3981
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

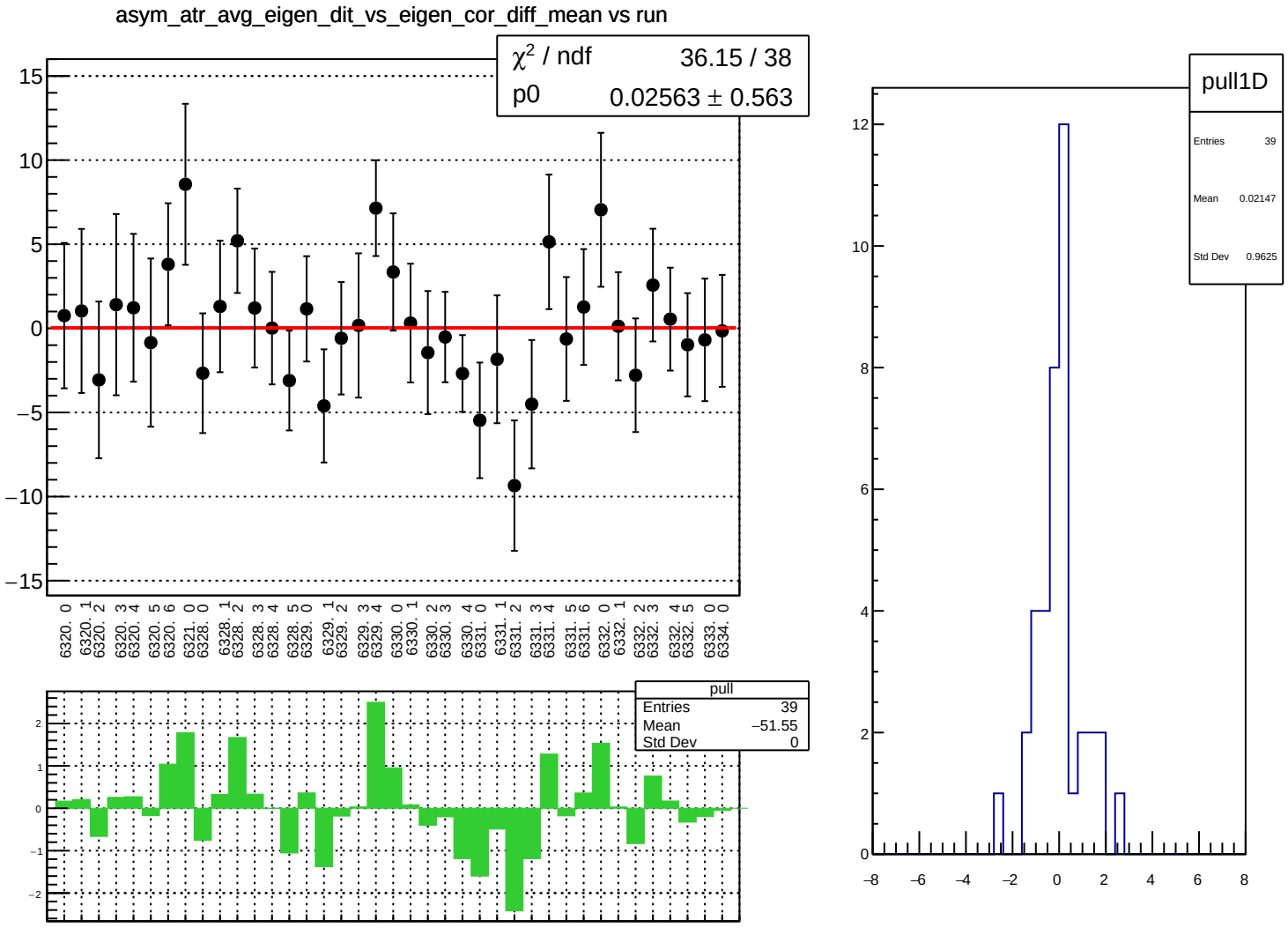

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.92 / 38
p0 −8.507e−06 ± 3.288e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

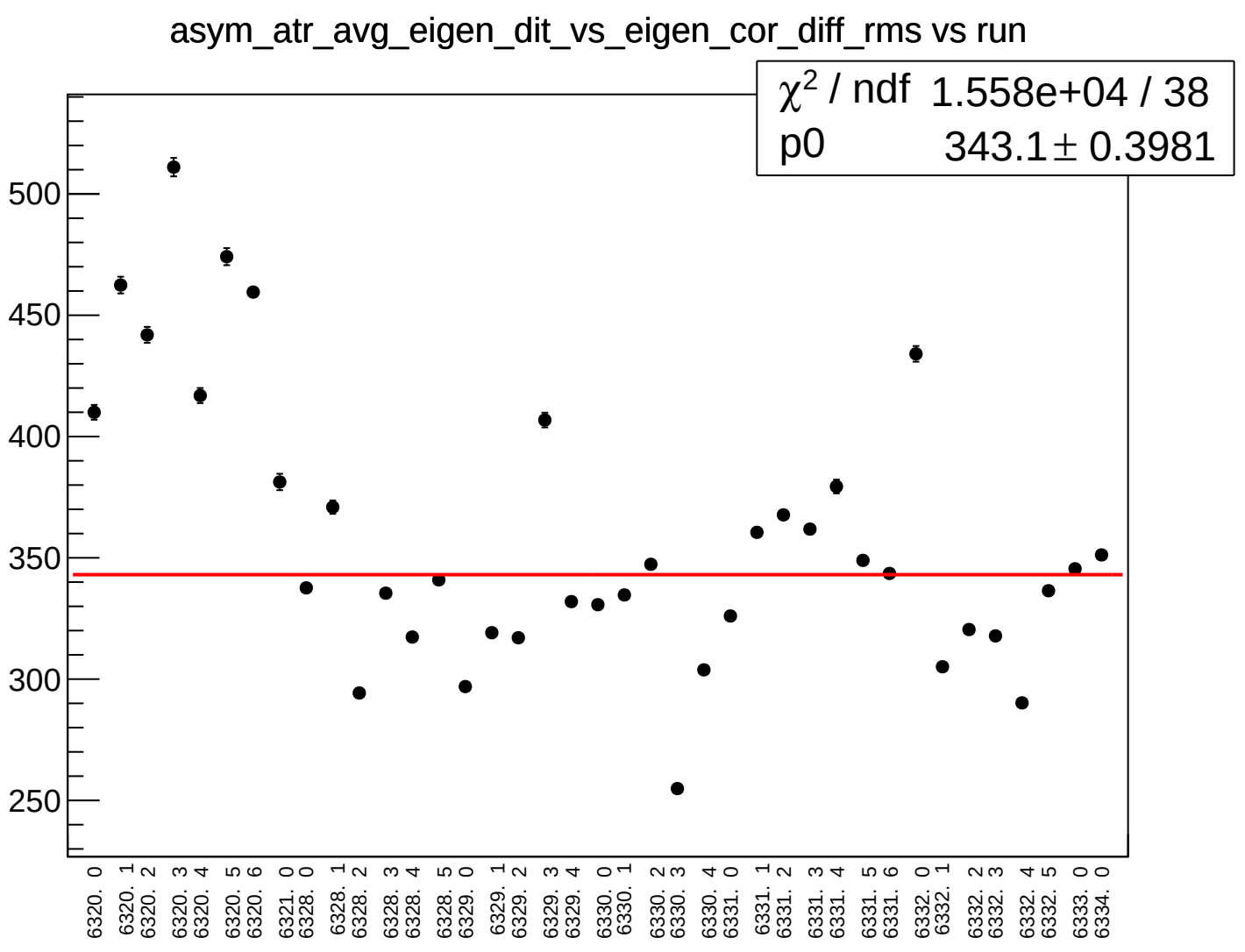

pull1D
Entries 39
Mean −0.02216
Std Dev 0.8458
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

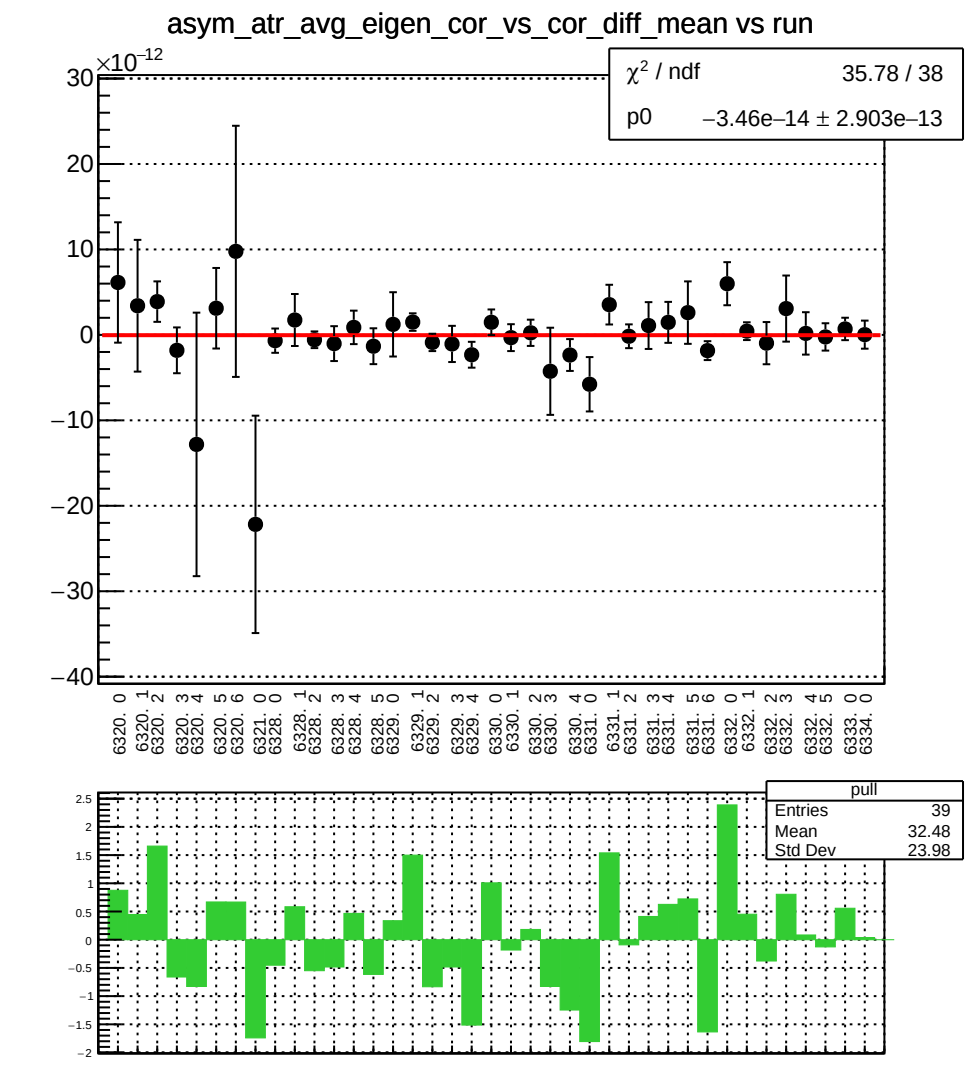

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4410 / 38
p0 0.02018 ± 2.325e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

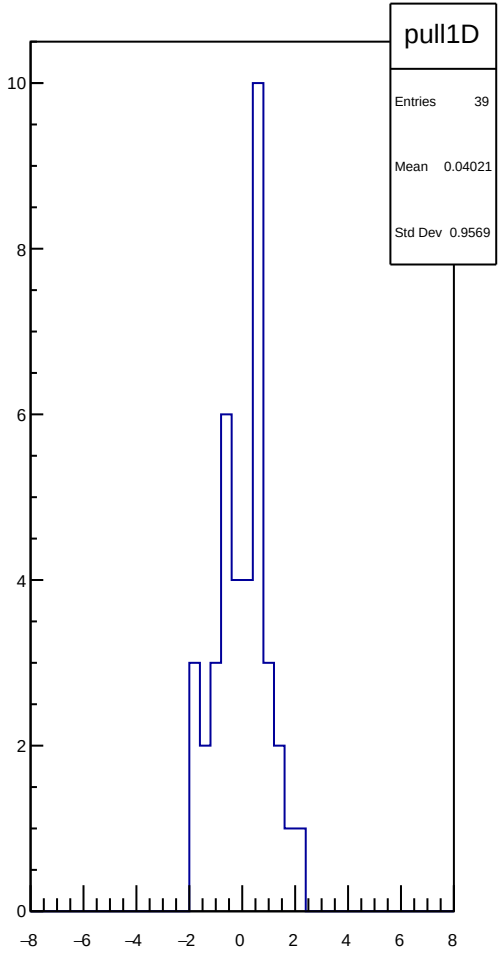

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.15 / 38
p0 0.02563 ± 0.563
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02147
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

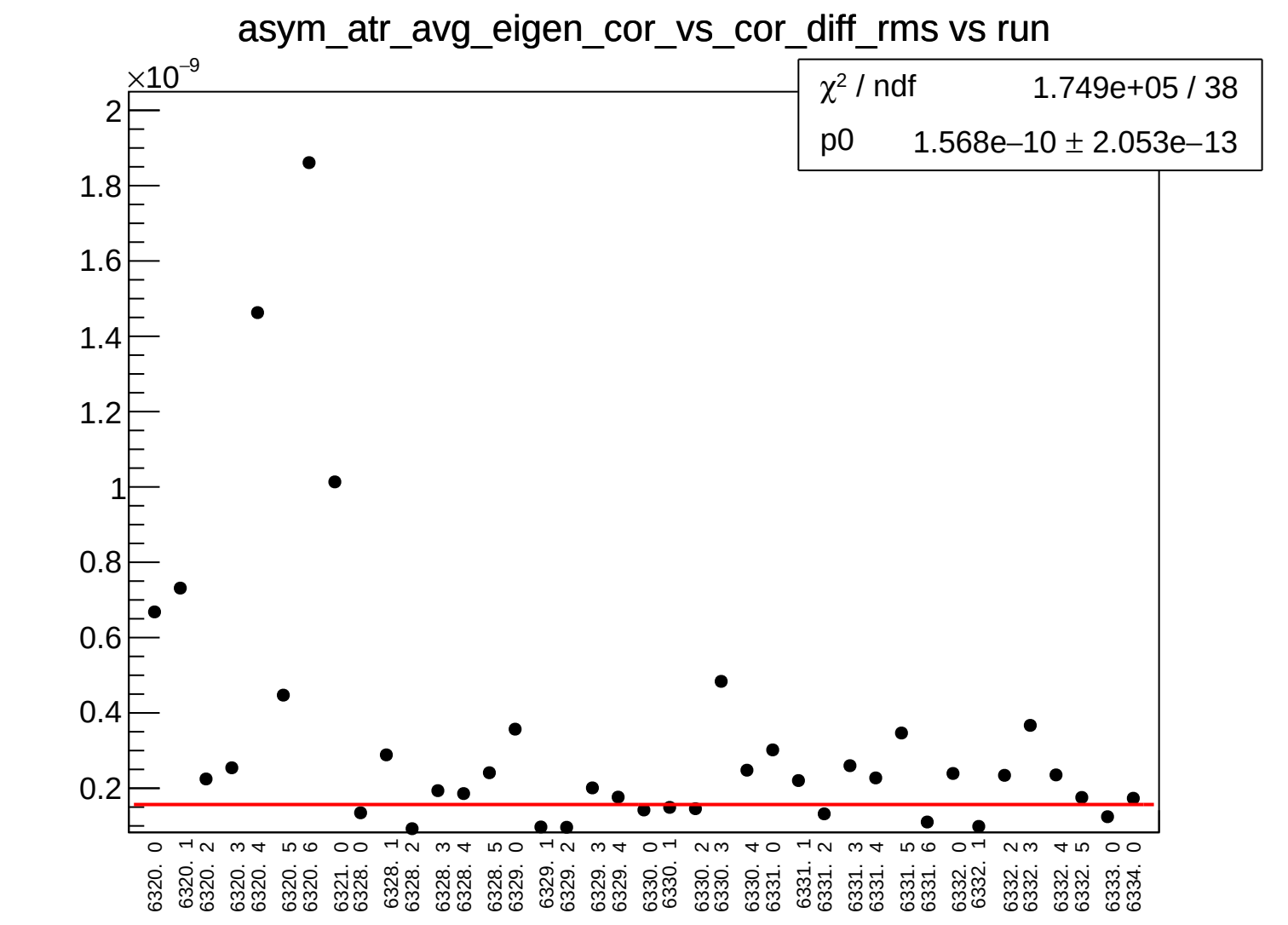

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.558e+04 / 38
p0 343.1 ± 0.3981
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

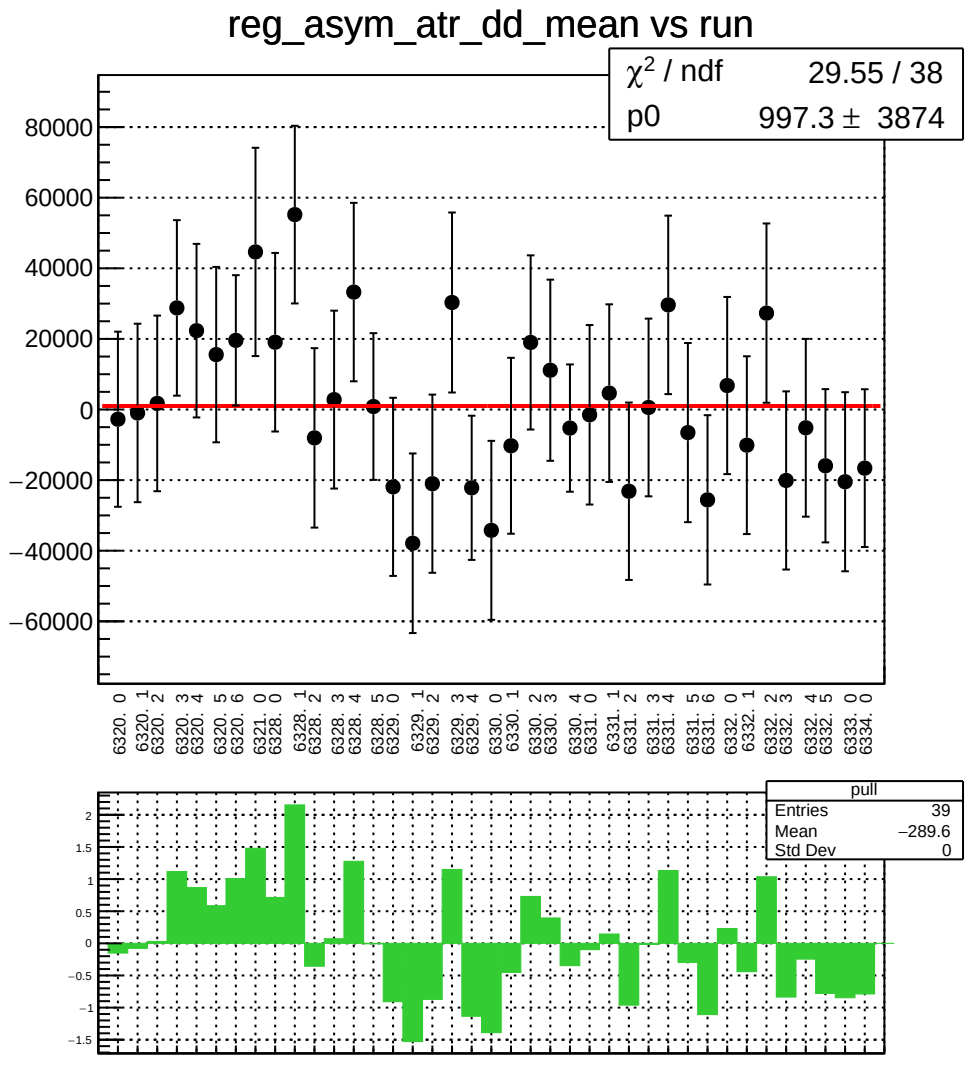

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.15 / 38
p0 0.02563 ± 0.563
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02147
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

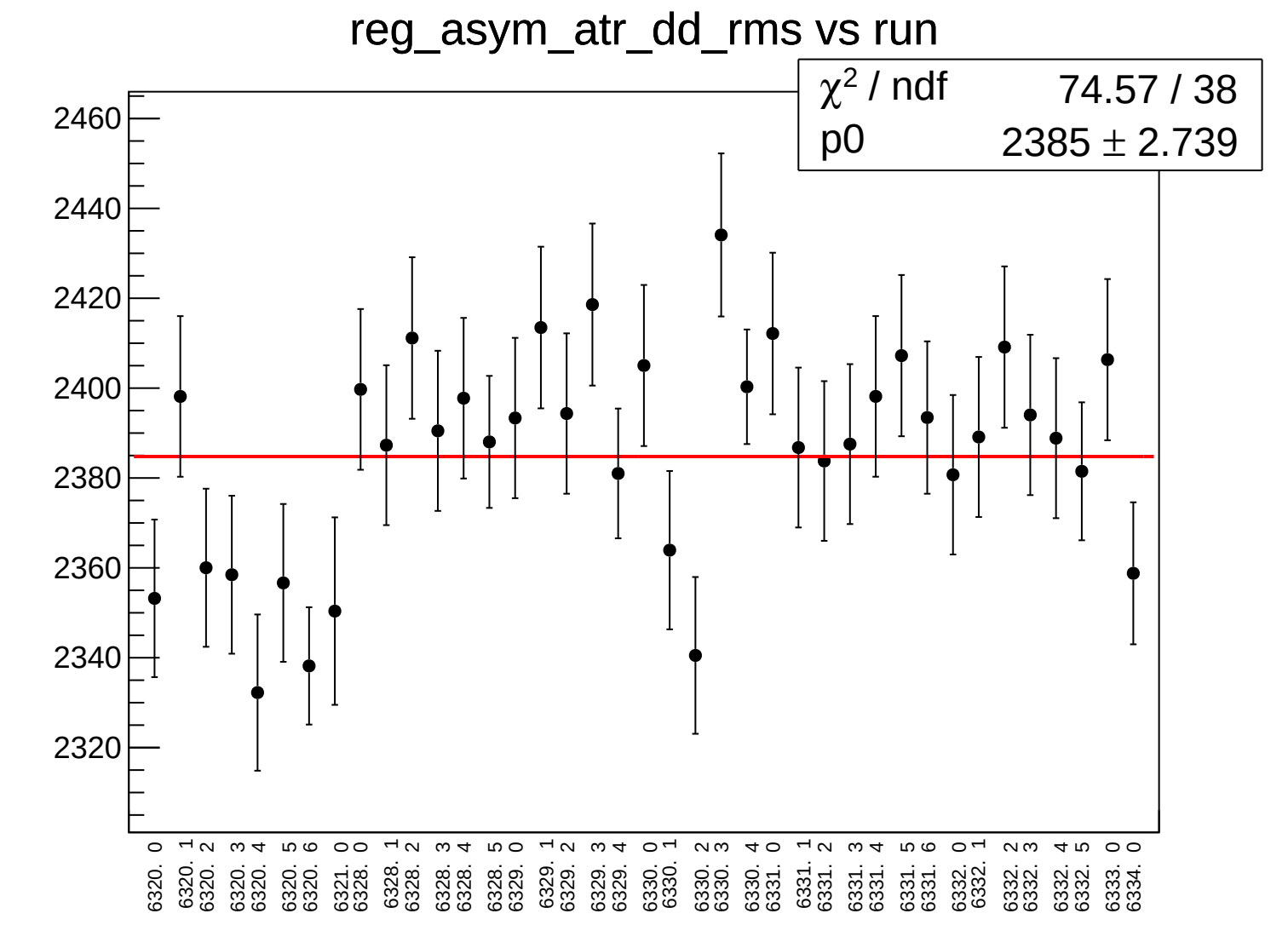

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.558e+04 / 38
p0 343.1 ± 0.3981
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

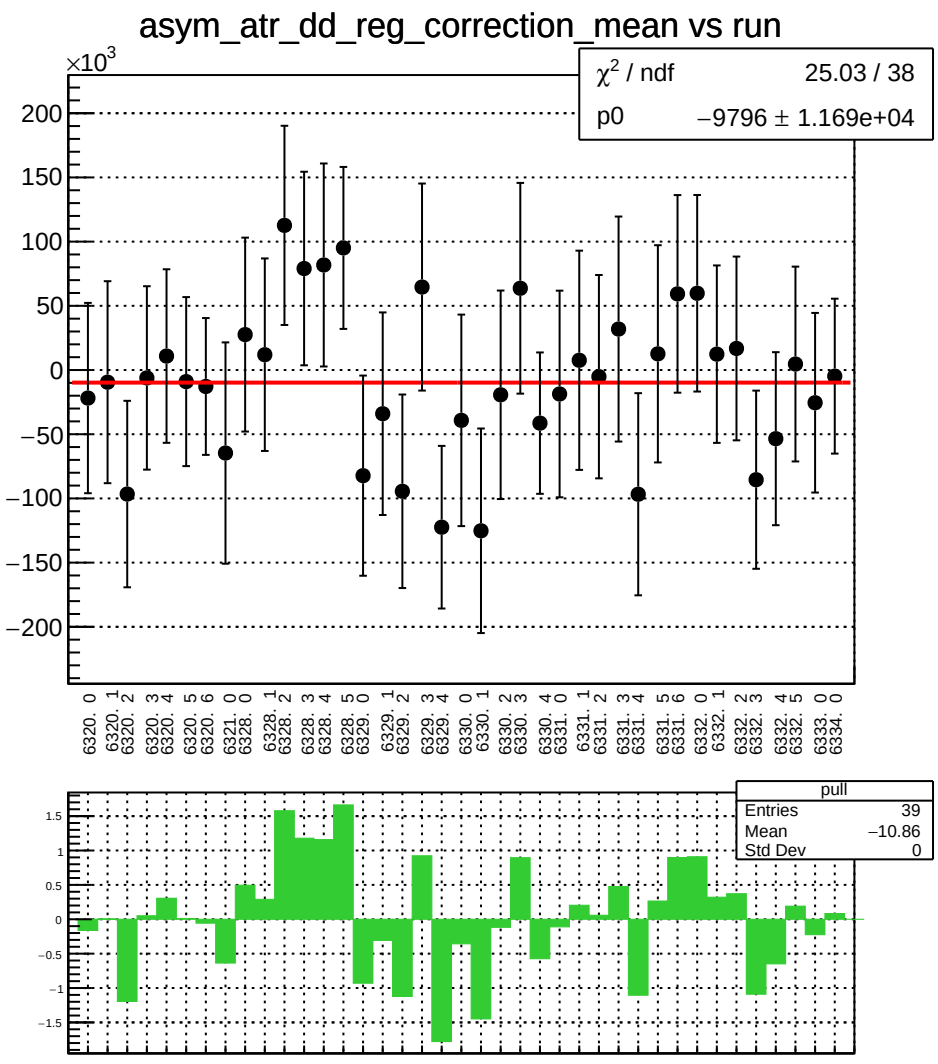

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.78 / 38
p0 −3.46e−14 ± 2.903e−13
pull
Entries 39
Mean 32.48
Std Dev 23.98

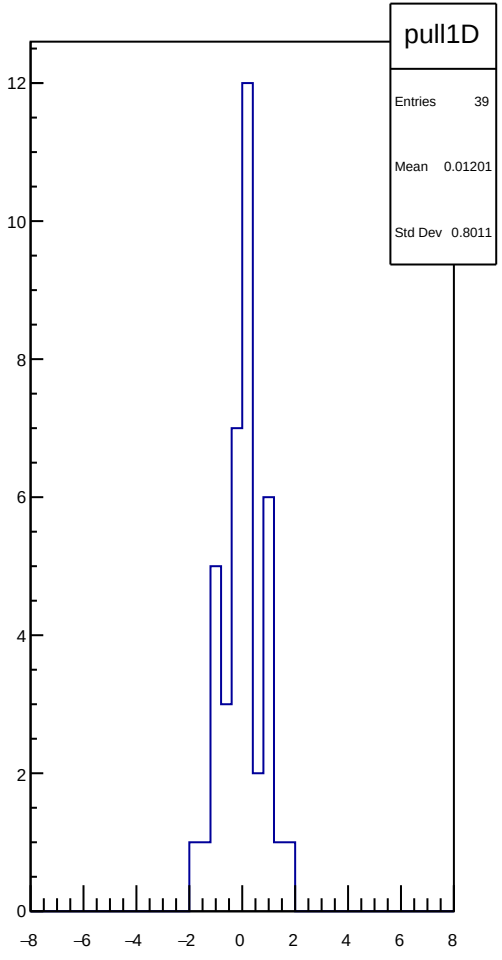

pull1D
Entries 39
Mean 0.04021
Std Dev 0.9569

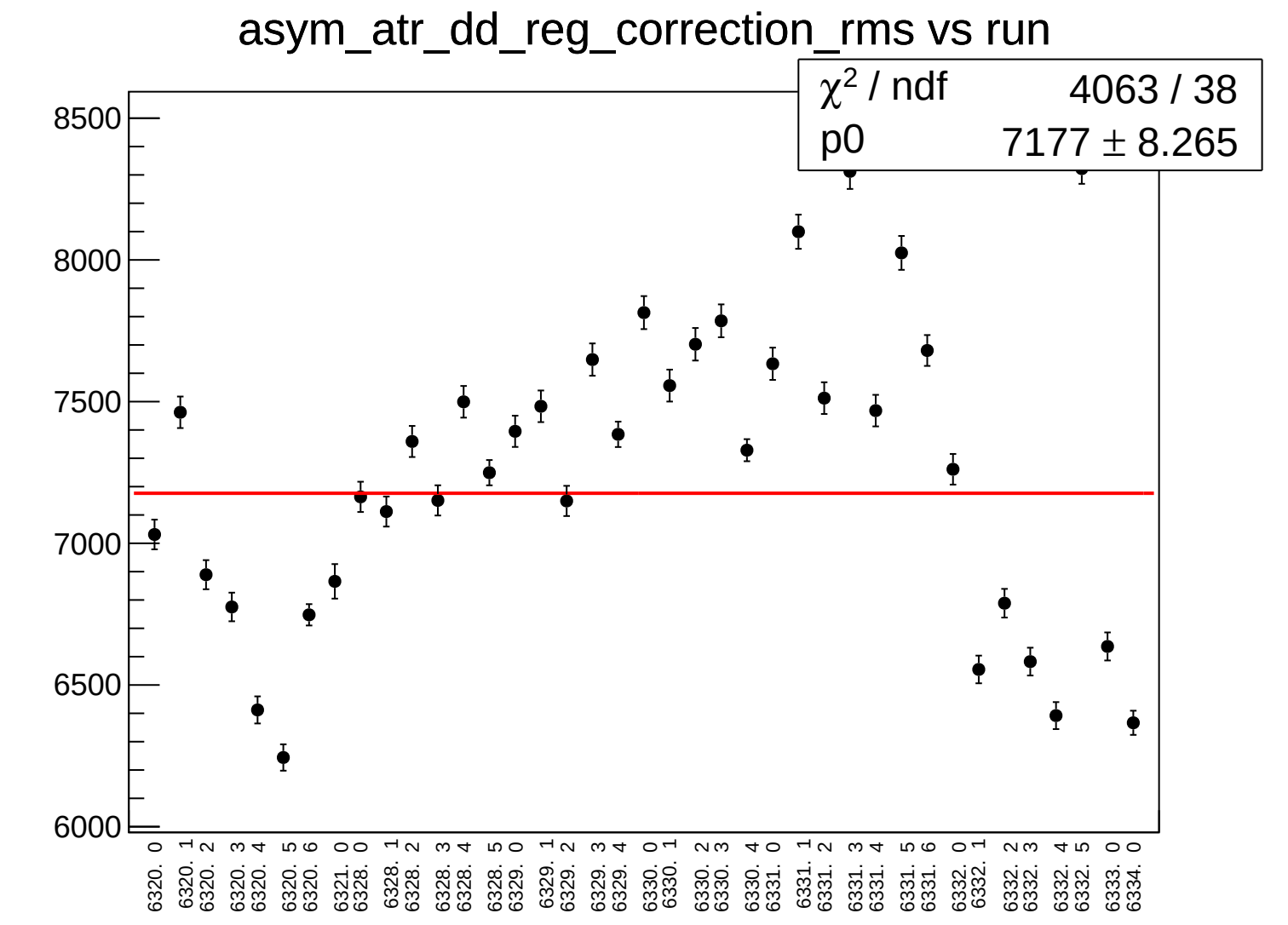

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.749e+05 / 38
p0 1.568e−10 ± 2.053e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

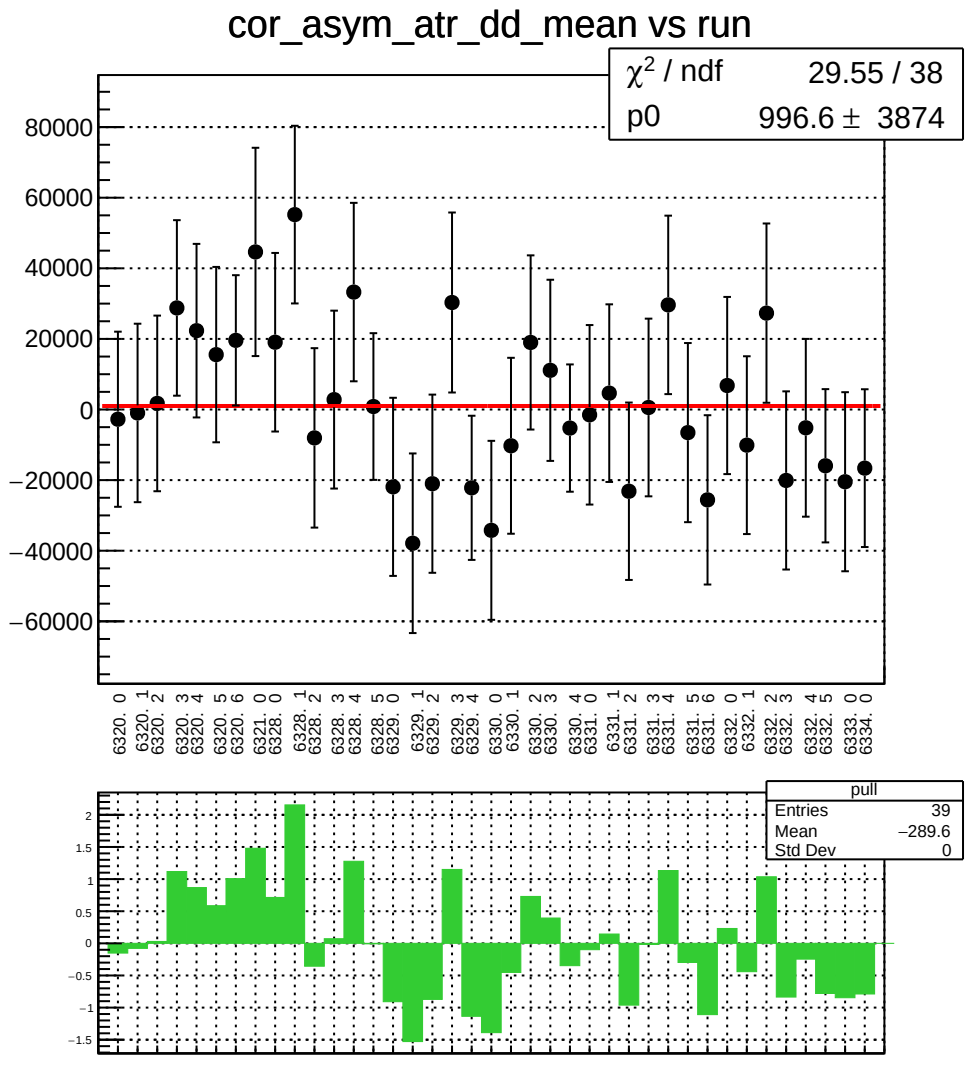

reg_asym_atr_dd_mean vs run
χ² / ndf 29.55 / 38
p0 997.3 ± 3874
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −289.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01234
Std Dev 0.8703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

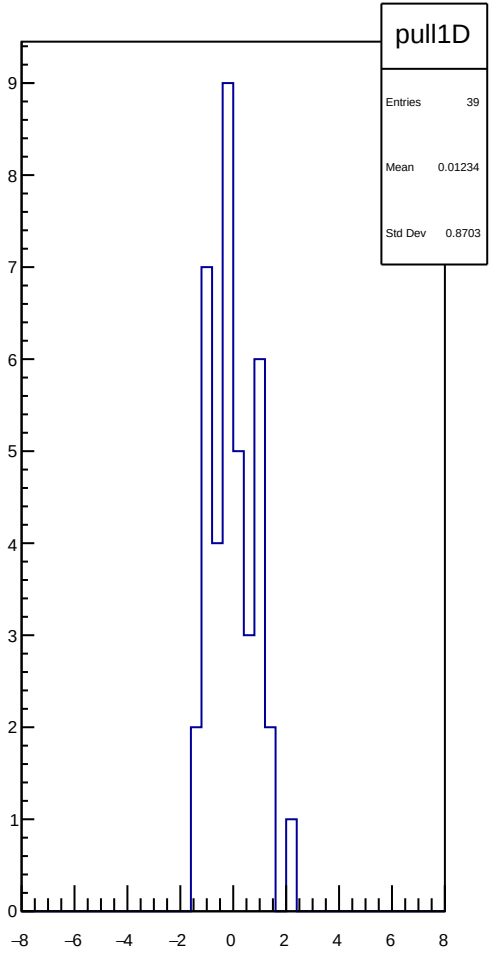

reg_asym_atr_dd_rms vs run
χ² / ndf 74.57 / 38
p0 2385 ± 2.739
2460
2440
2420
2400
2380
2360
2340
2320
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

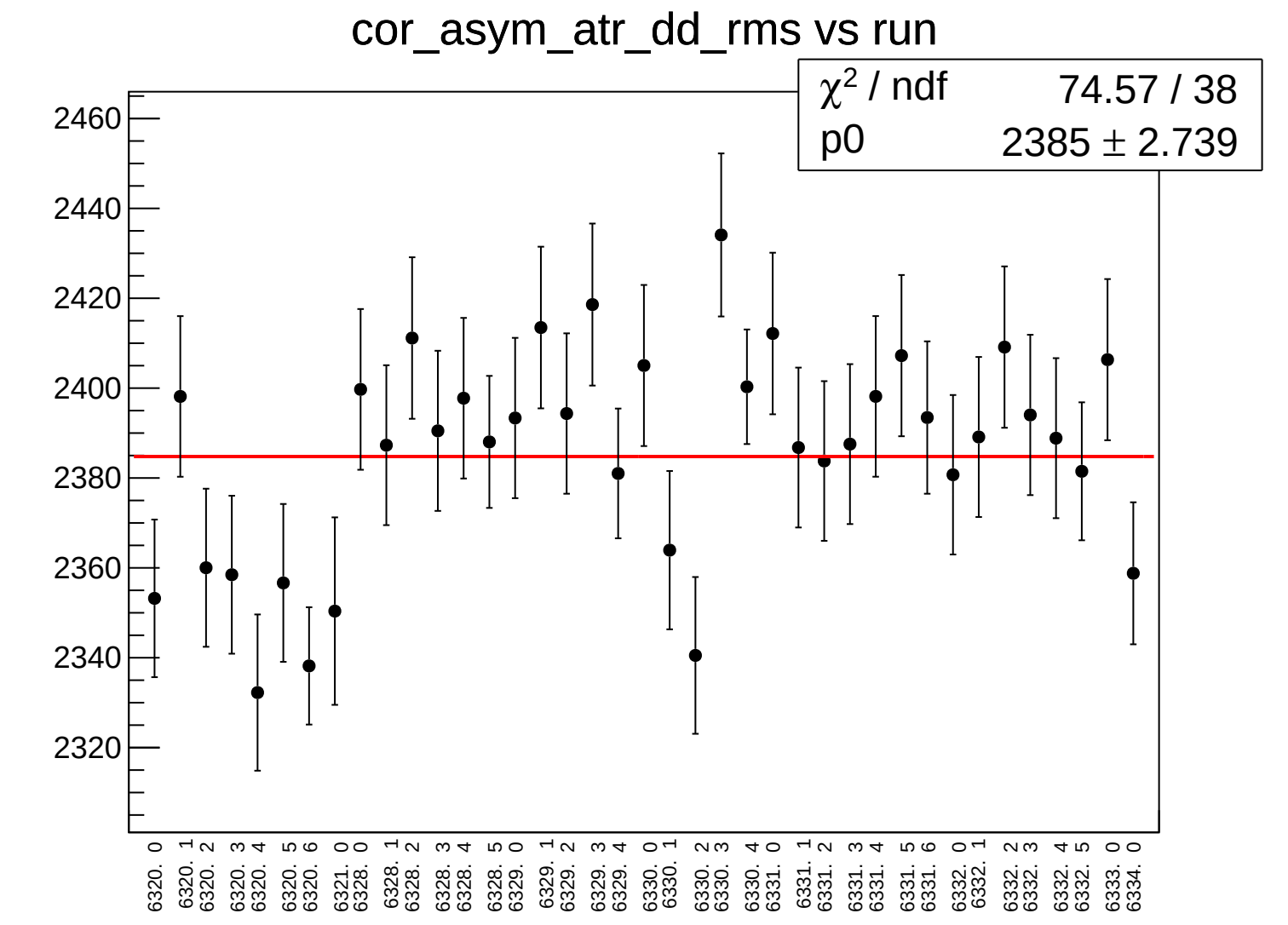

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 25.03 / 38
p0 −9796 ± 1.169e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

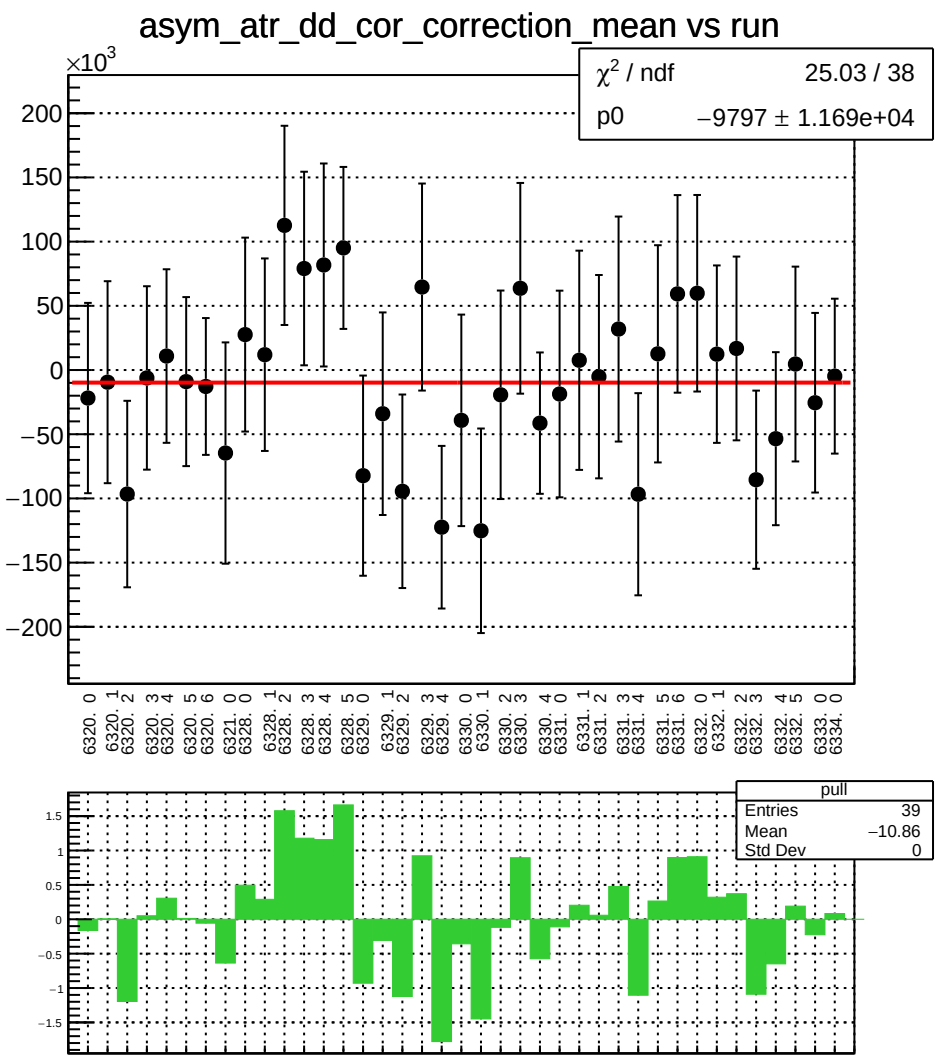

pull1D
Entries 39
Mean 0.01201
Std Dev 0.8011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

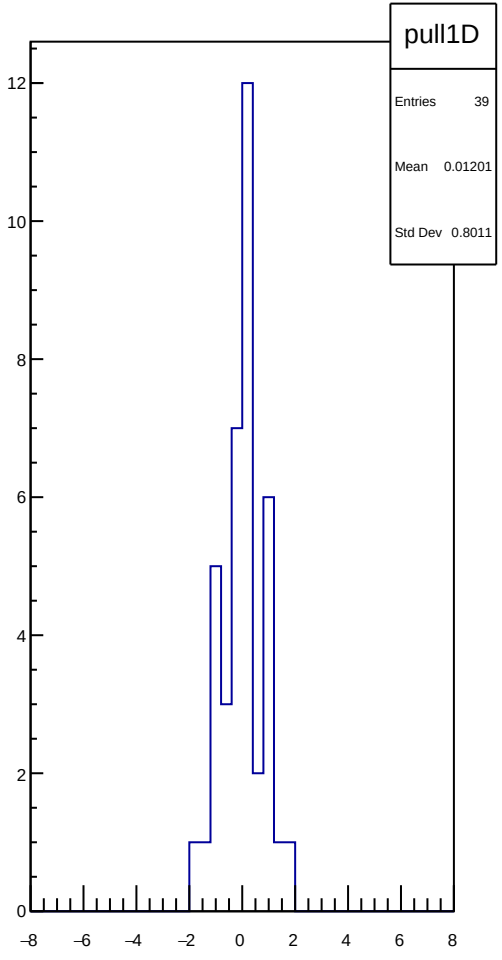

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 4063 / 38
p0 7177 ± 8.265
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

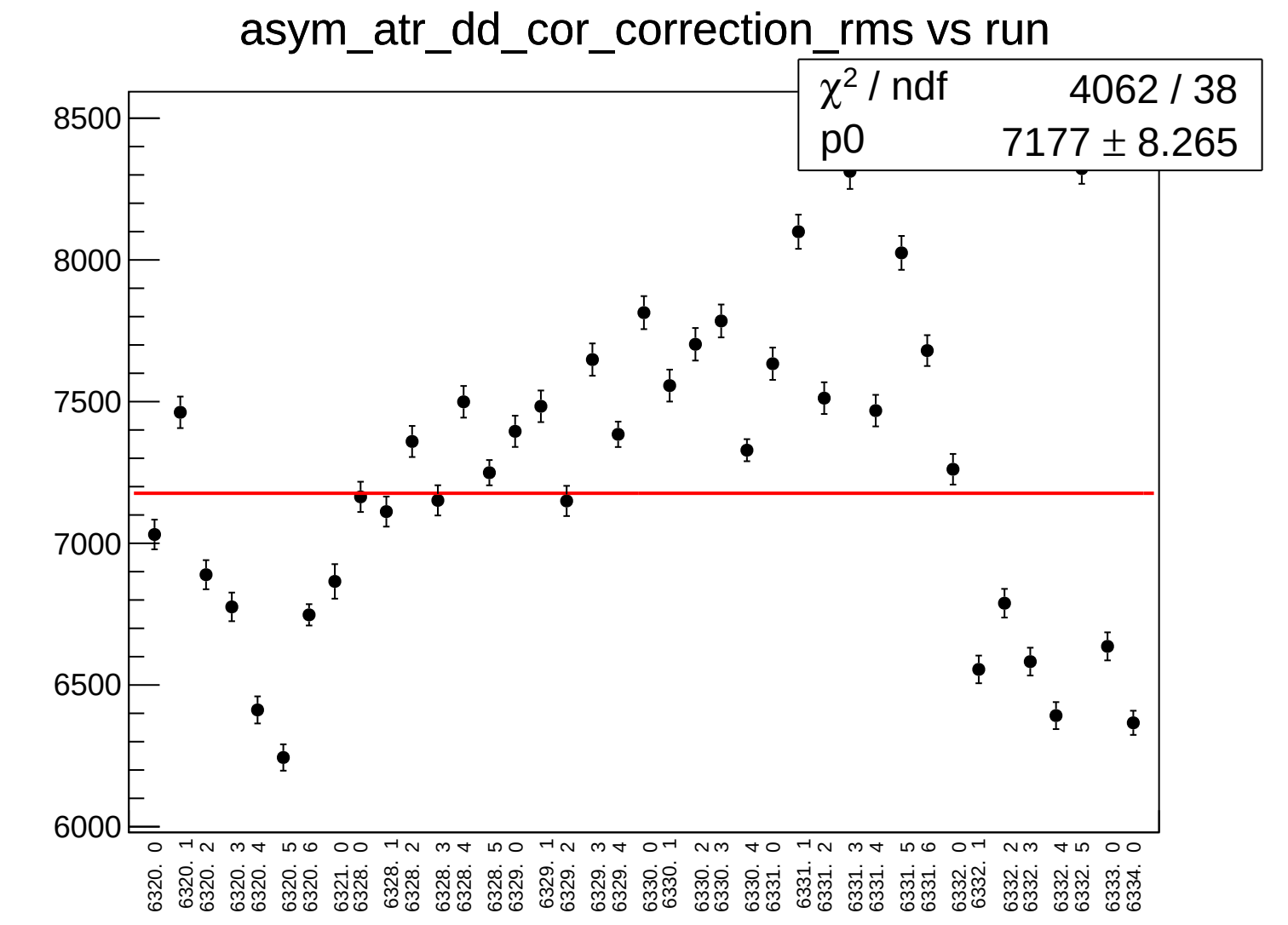

cor_asym_atr_dd_mean vs run
χ² / ndf 29.55 / 38
p0 996.6 ± 3874
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −289.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

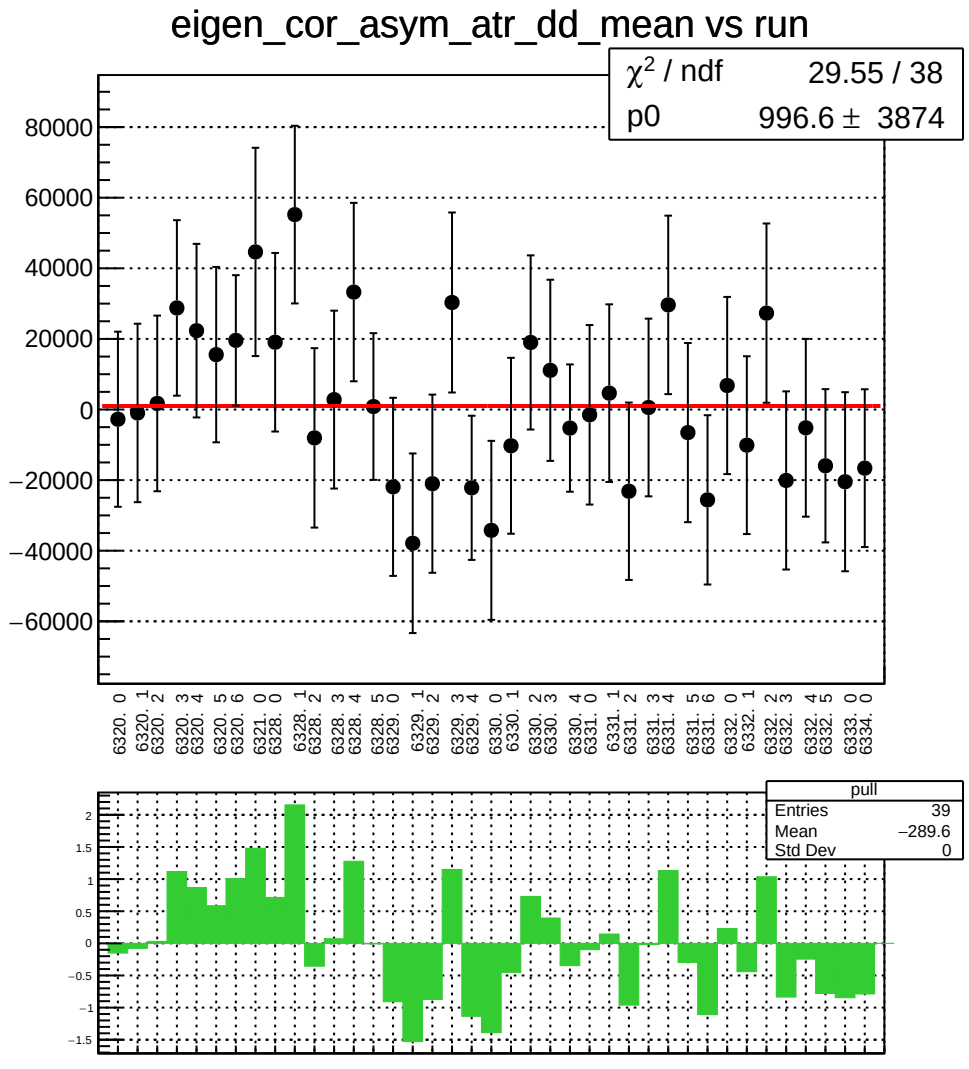

pull1D
Entries 39
Mean 0.01234
Std Dev 0.8703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

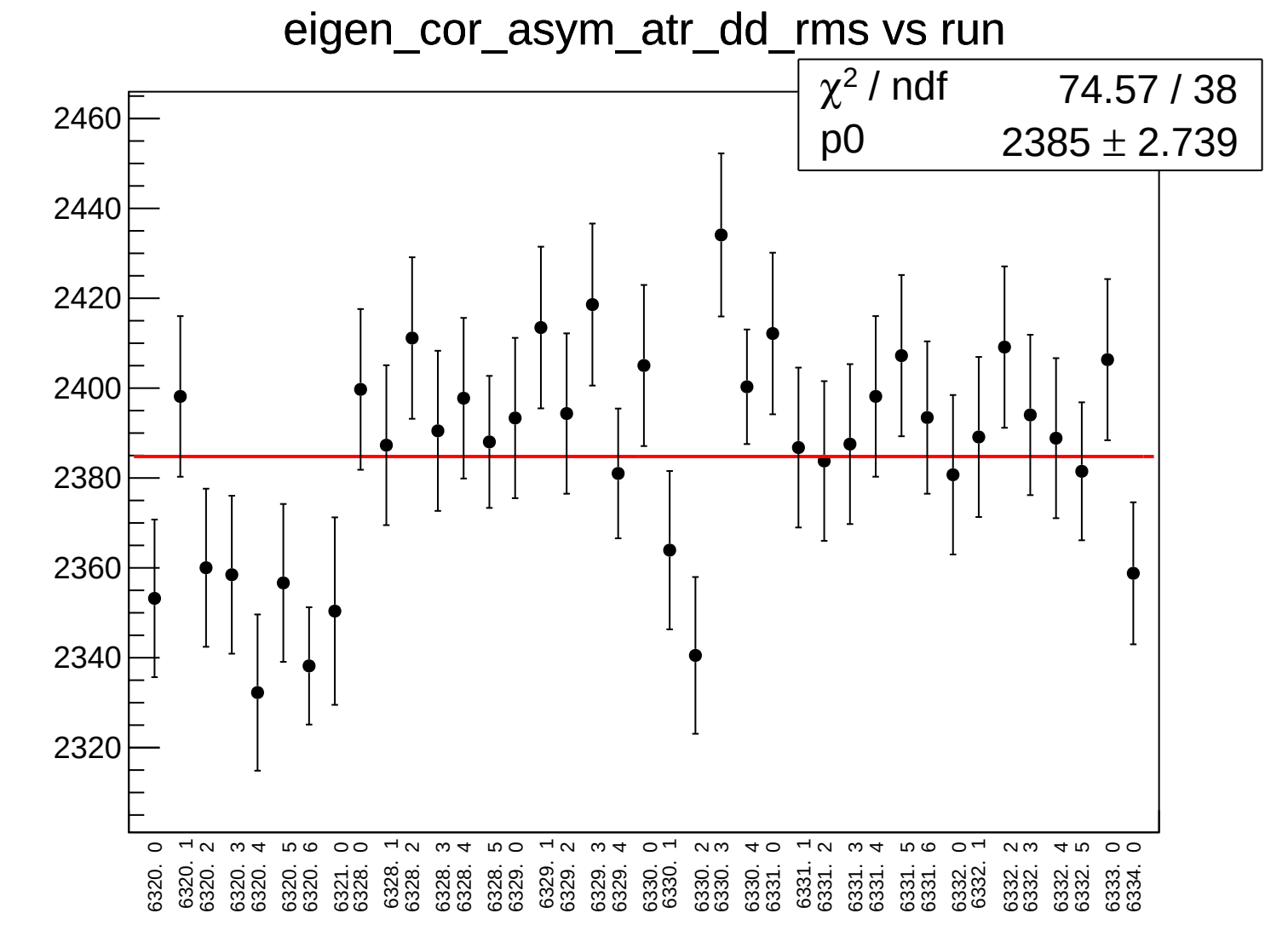

cor_asym_atr_dd_rms vs run
χ² / ndf 74.57 / 38
p0 2385 ± 2.739
2460
2440
2420
2400
2380
2360
2340
2320
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

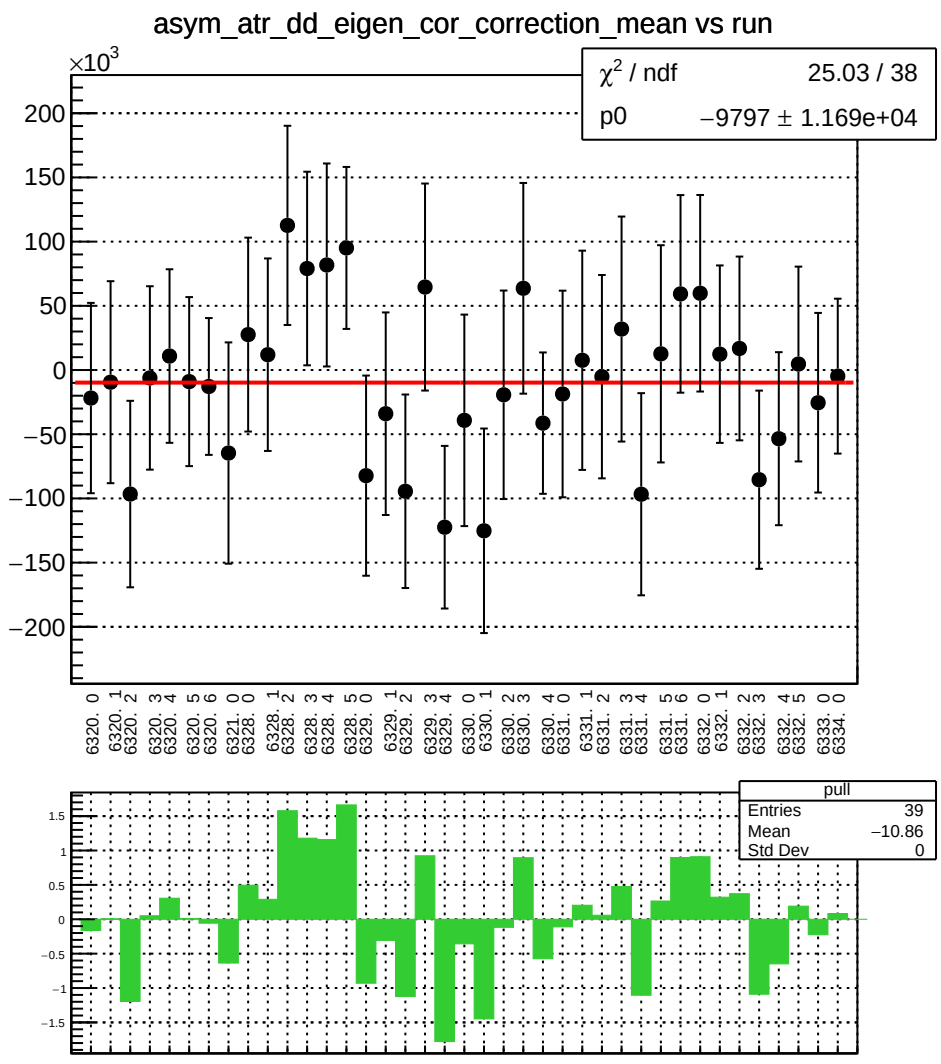

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 25.03 / 38
p0 −9797 ± 1.169e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

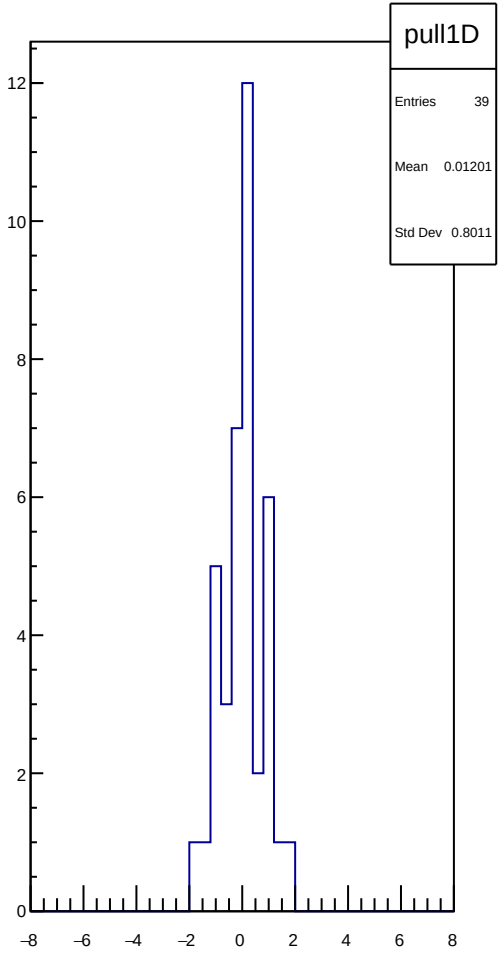

pull1D
Entries 39
Mean 0.01201
Std Dev 0.8011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

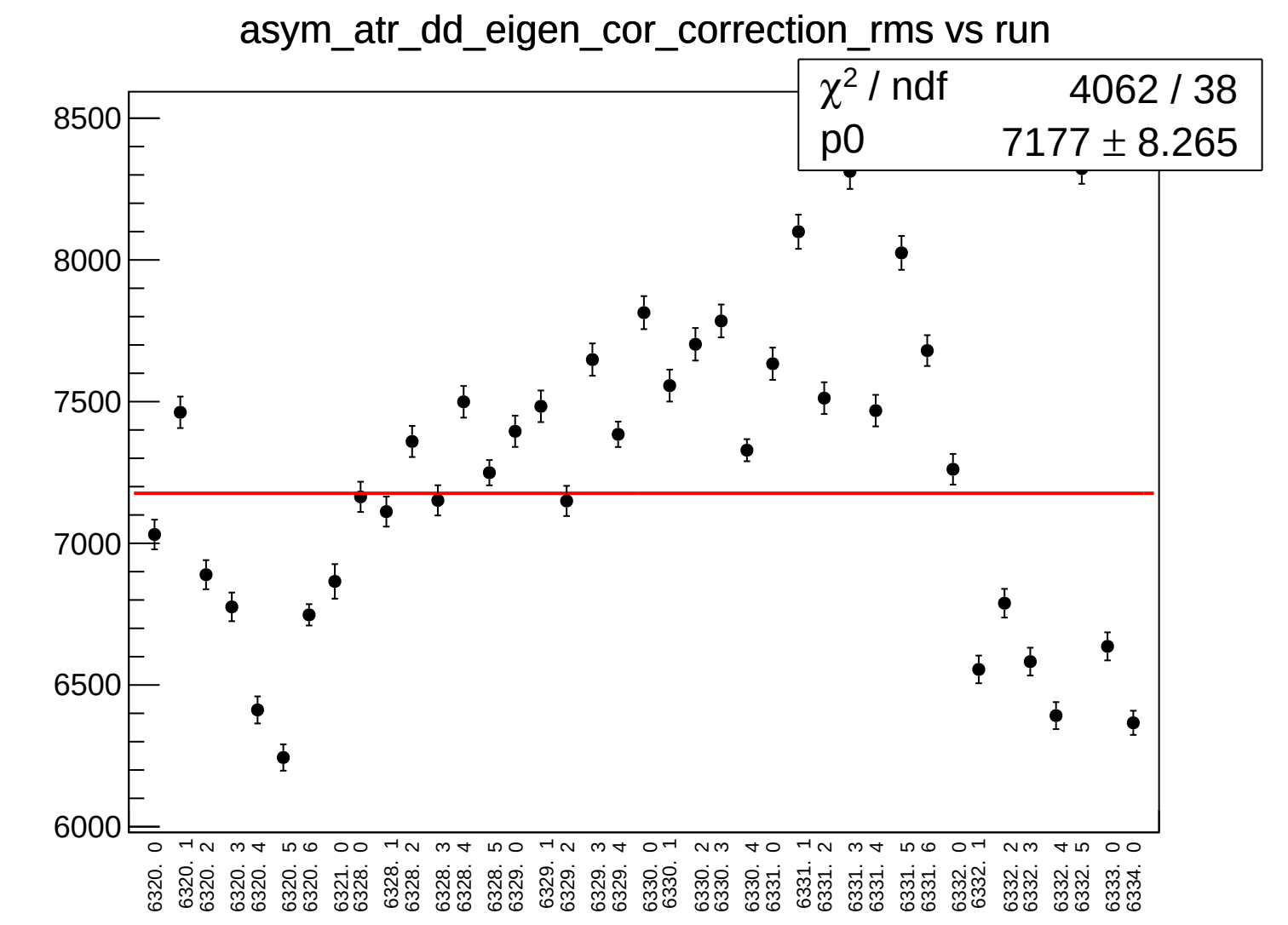

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 4062 / 38
p0 7177 ± 8.265
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

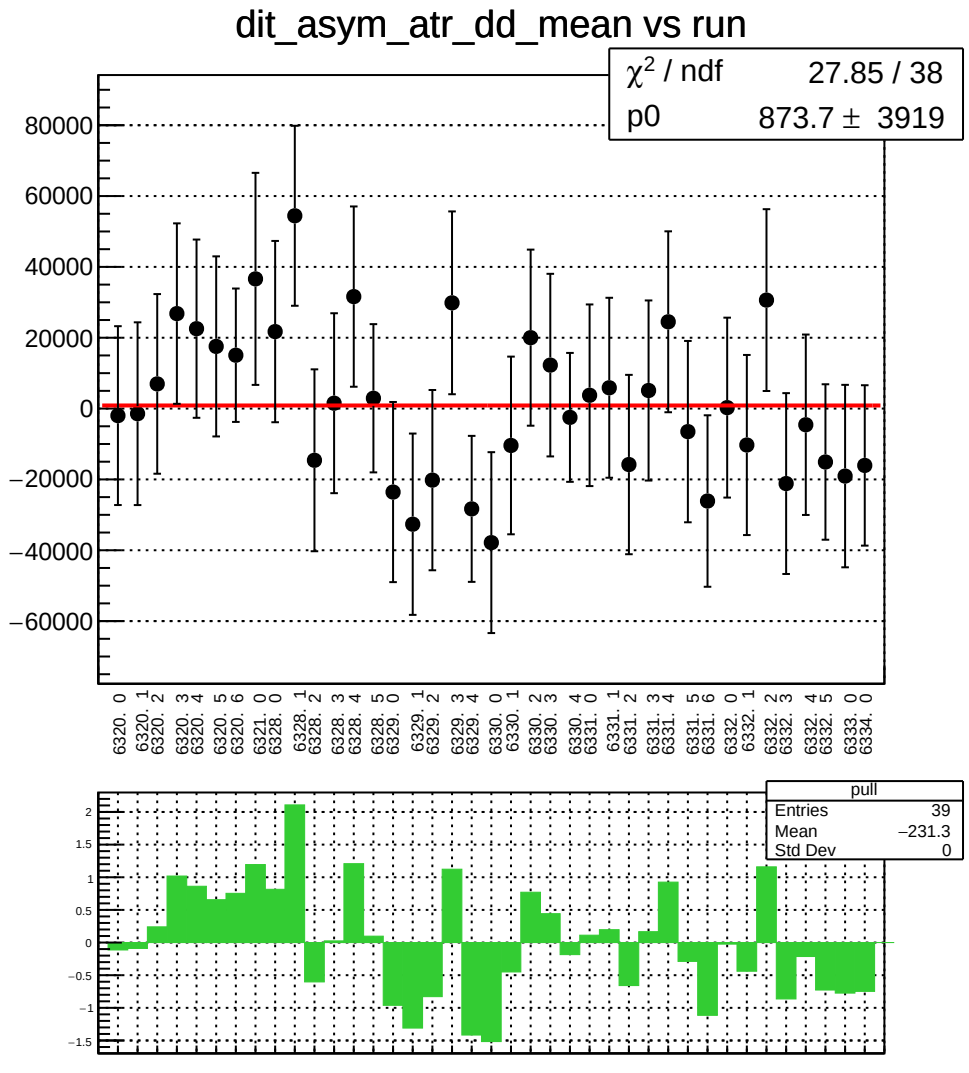

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 29.55 / 38
p0 996.6 ± 3874
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −289.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01234
Std Dev 0.8703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

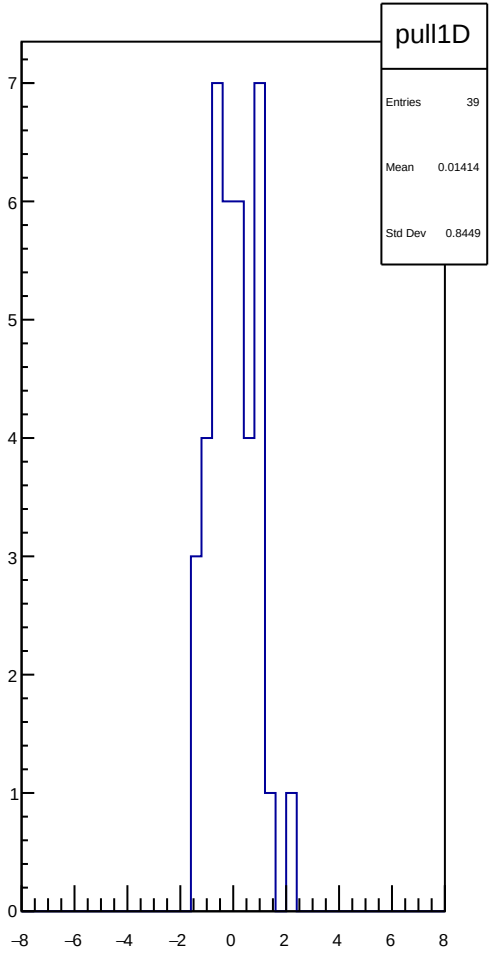

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 74.57 / 38
p0 2385 ± 2.739
2460
2440
2420
2400
2380
2360
2340
2320
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

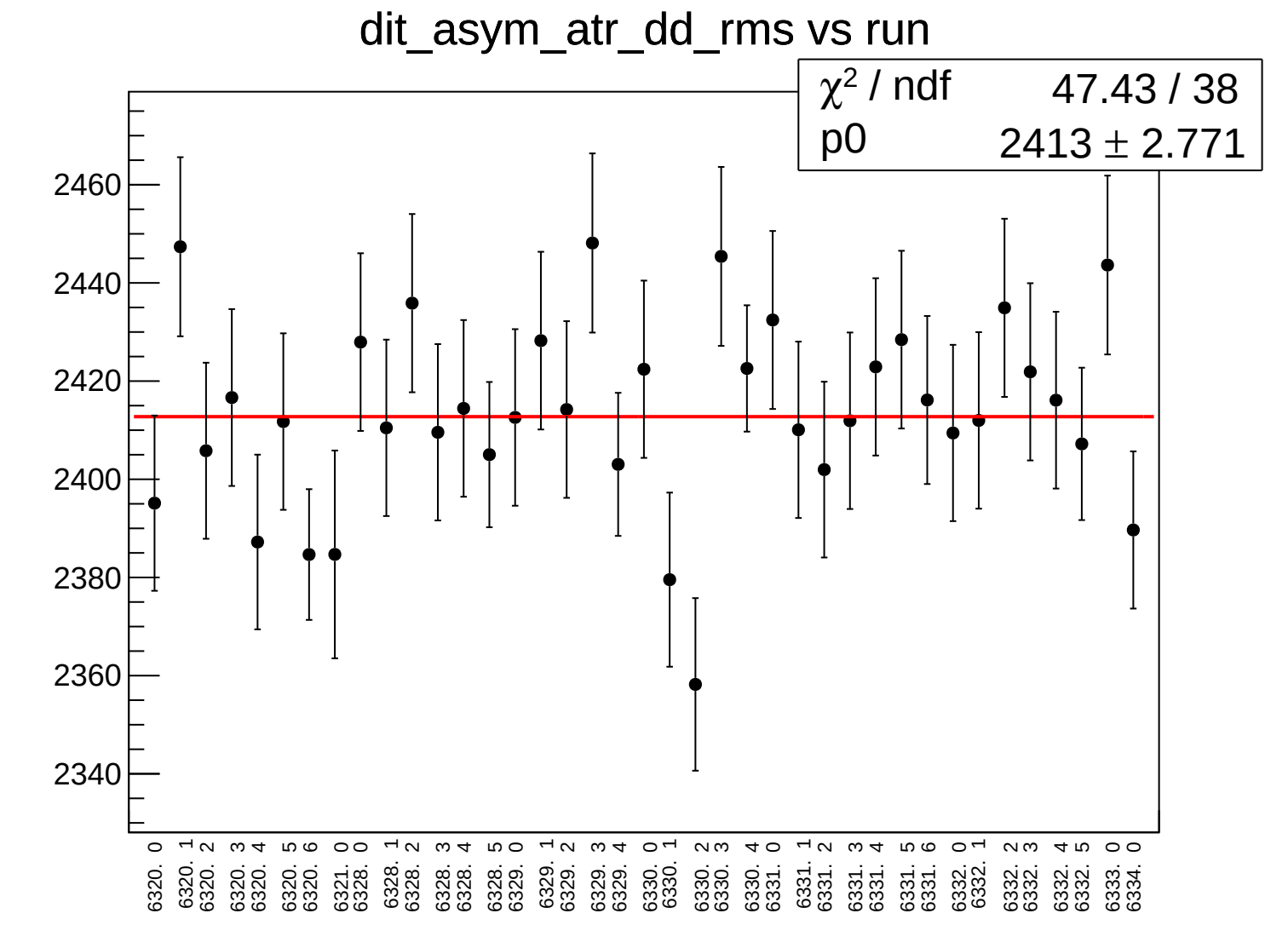

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.03 / 38
p0 −9797 ± 1.169e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

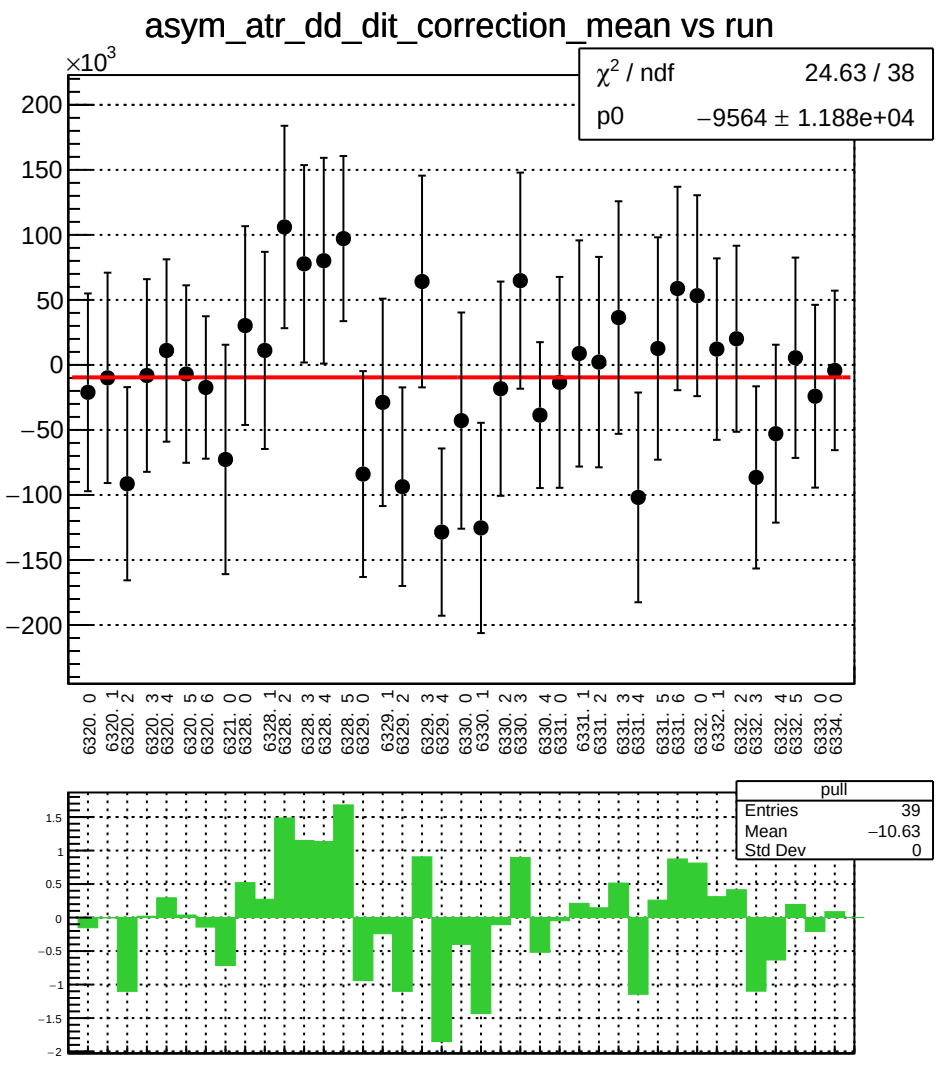

pull1D
Entries 39
Mean 0.01201
Std Dev 0.8011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

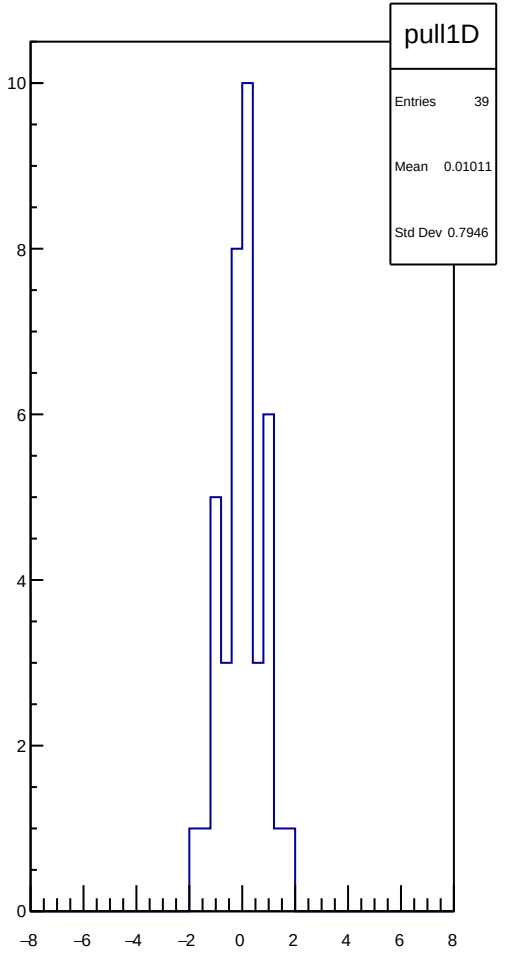

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 4062 / 38
p0 7177 ± 8.265
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

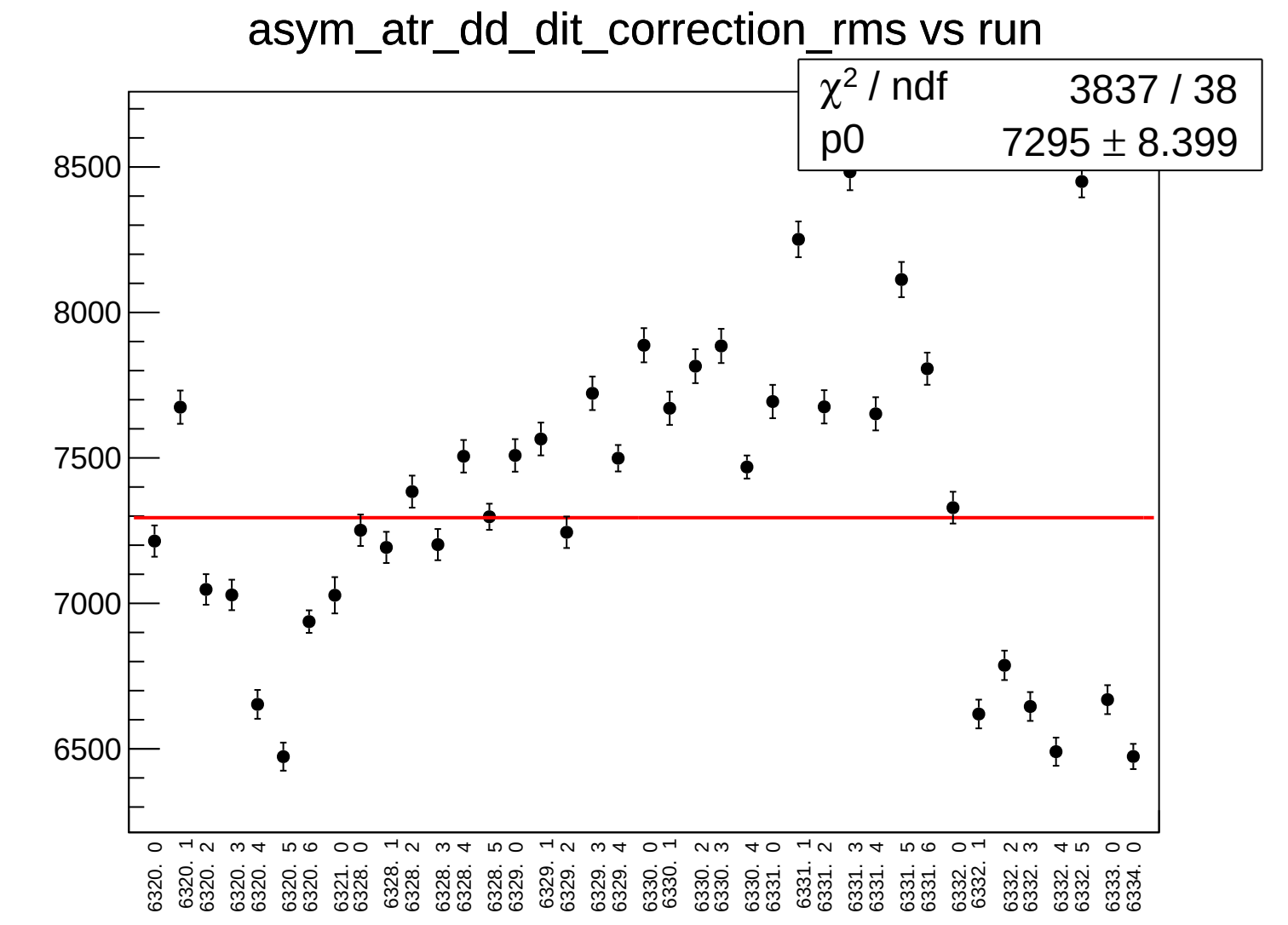

dit_asym_atr_dd_mean vs run
χ² / ndf 27.85 / 38
p0 873.7 ± 3919
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −231.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

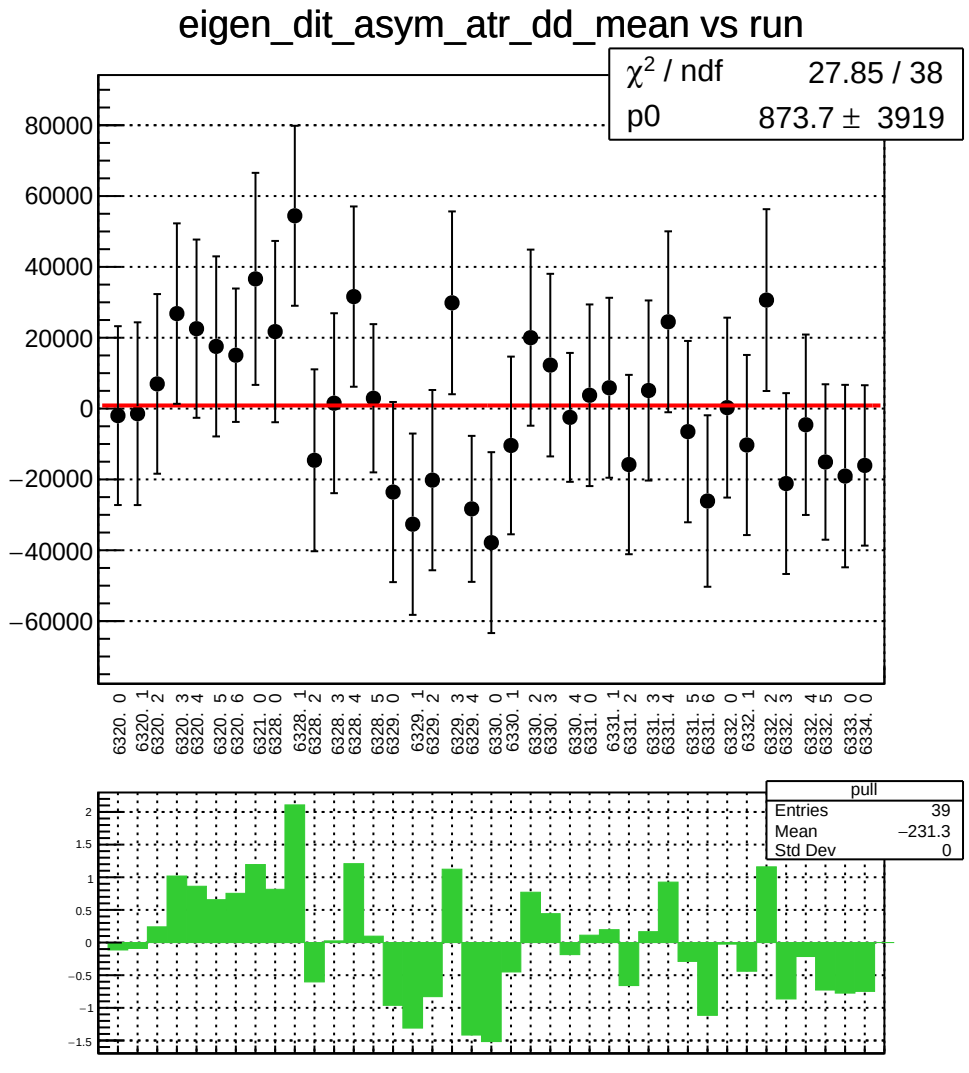

pull1D
Entries 39
Mean 0.01414
Std Dev 0.8449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

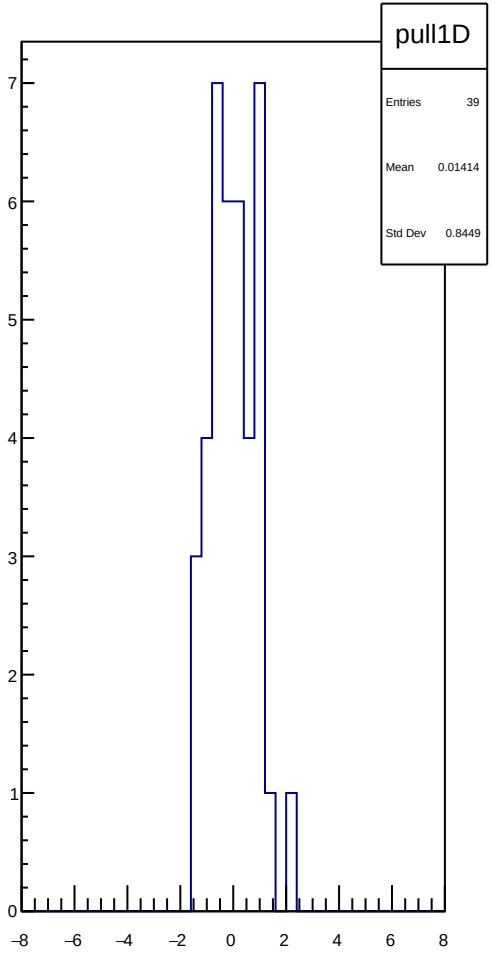

dit_asym_atr_dd_rms vs run
χ² / ndf 47.43 / 38
p0 2413 ± 2.771
2460
2440
2420
2400
2380
2360
2340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

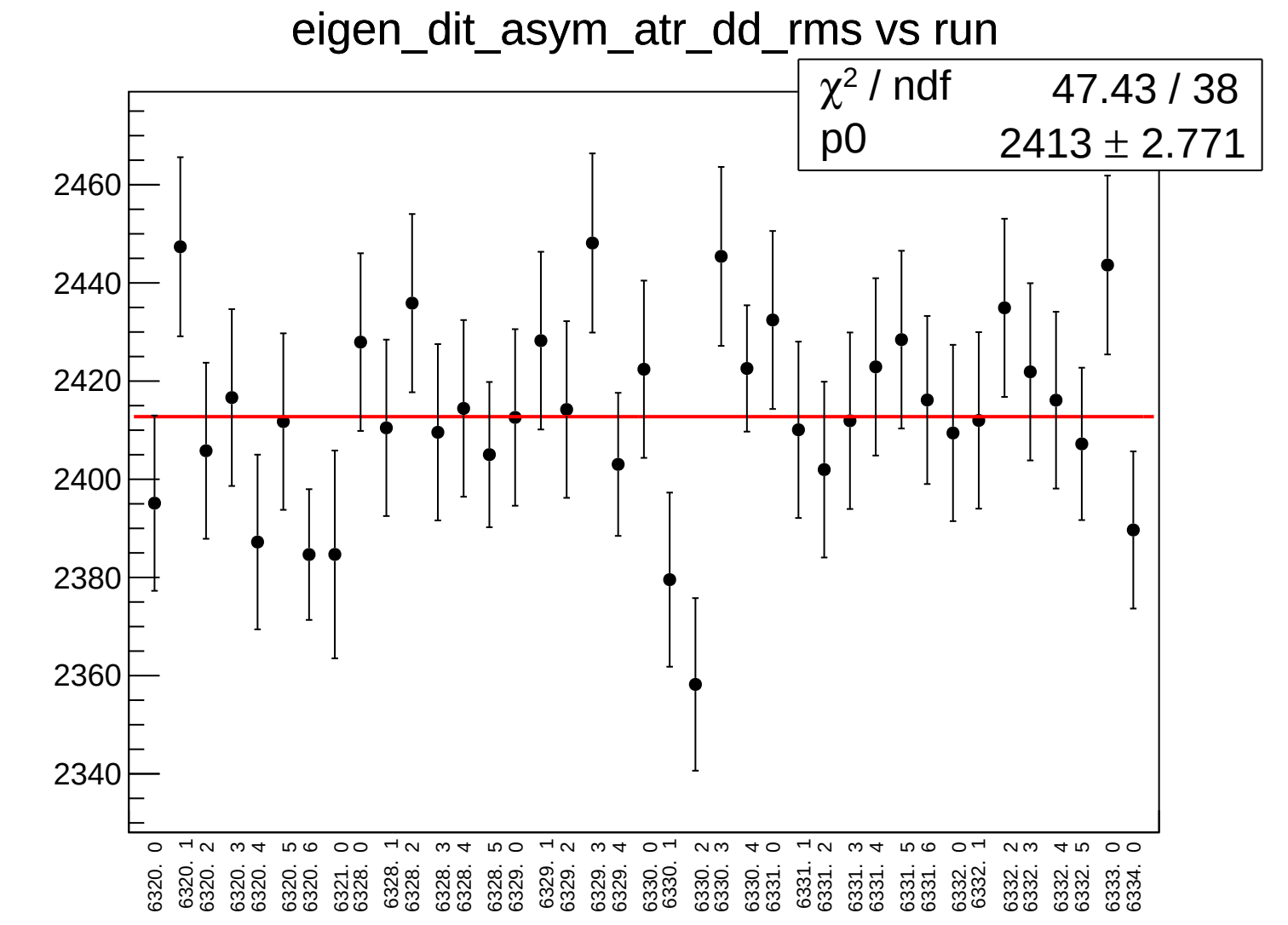

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 −9564 ± 1.188e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

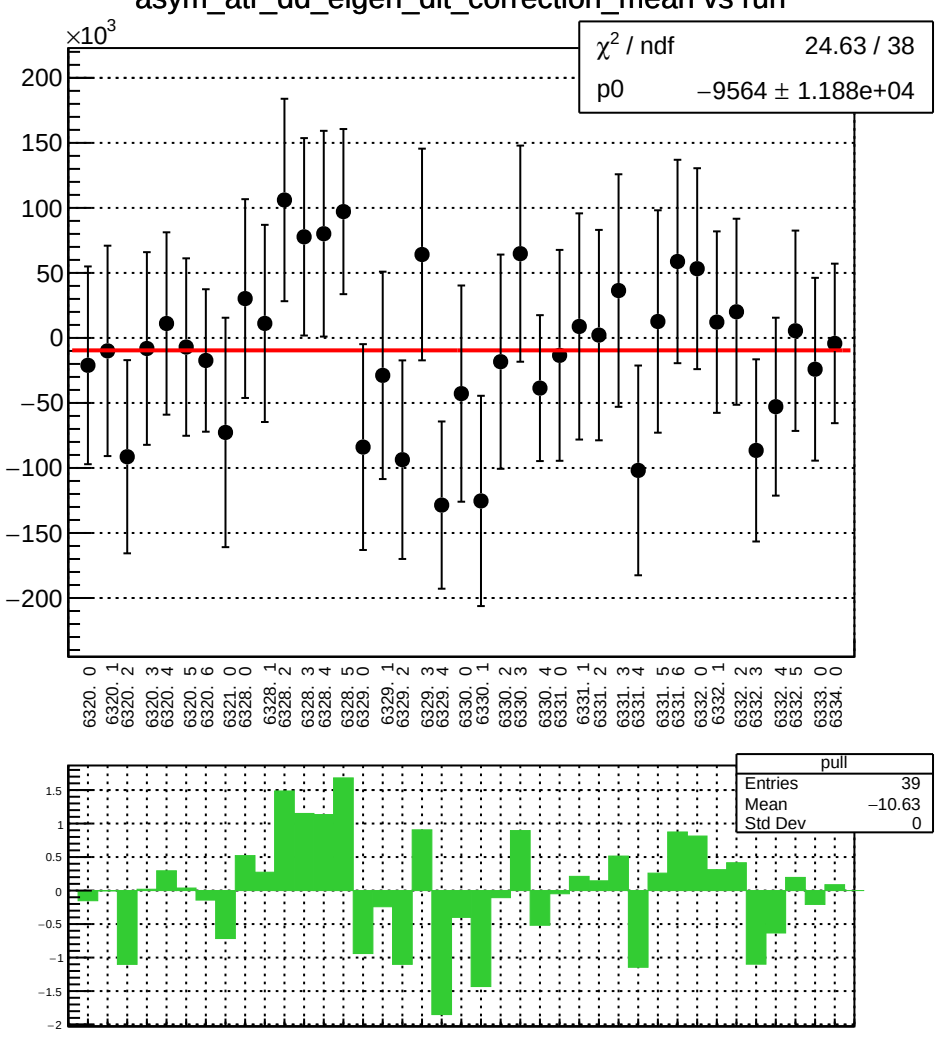

pull1D
Entries 39
Mean 0.01011
Std Dev 0.7946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

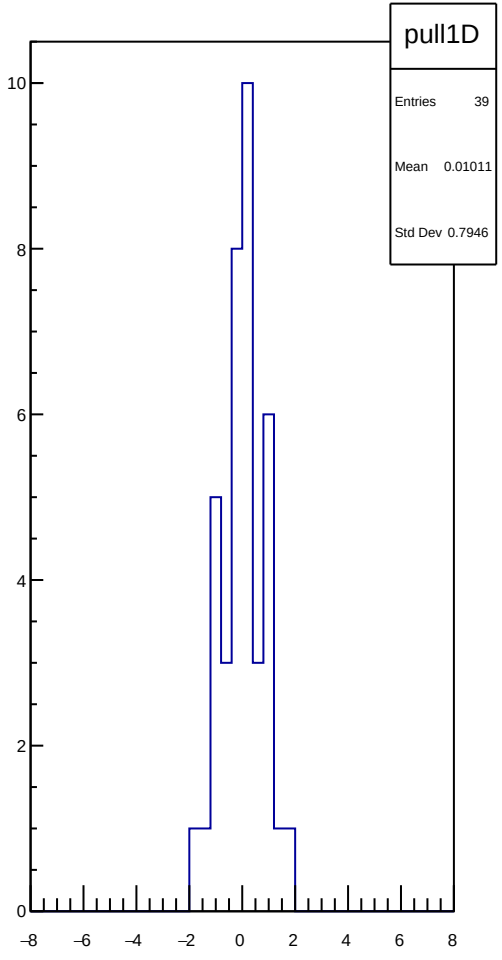

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3837 / 38
p0 7295 ± 8.399
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

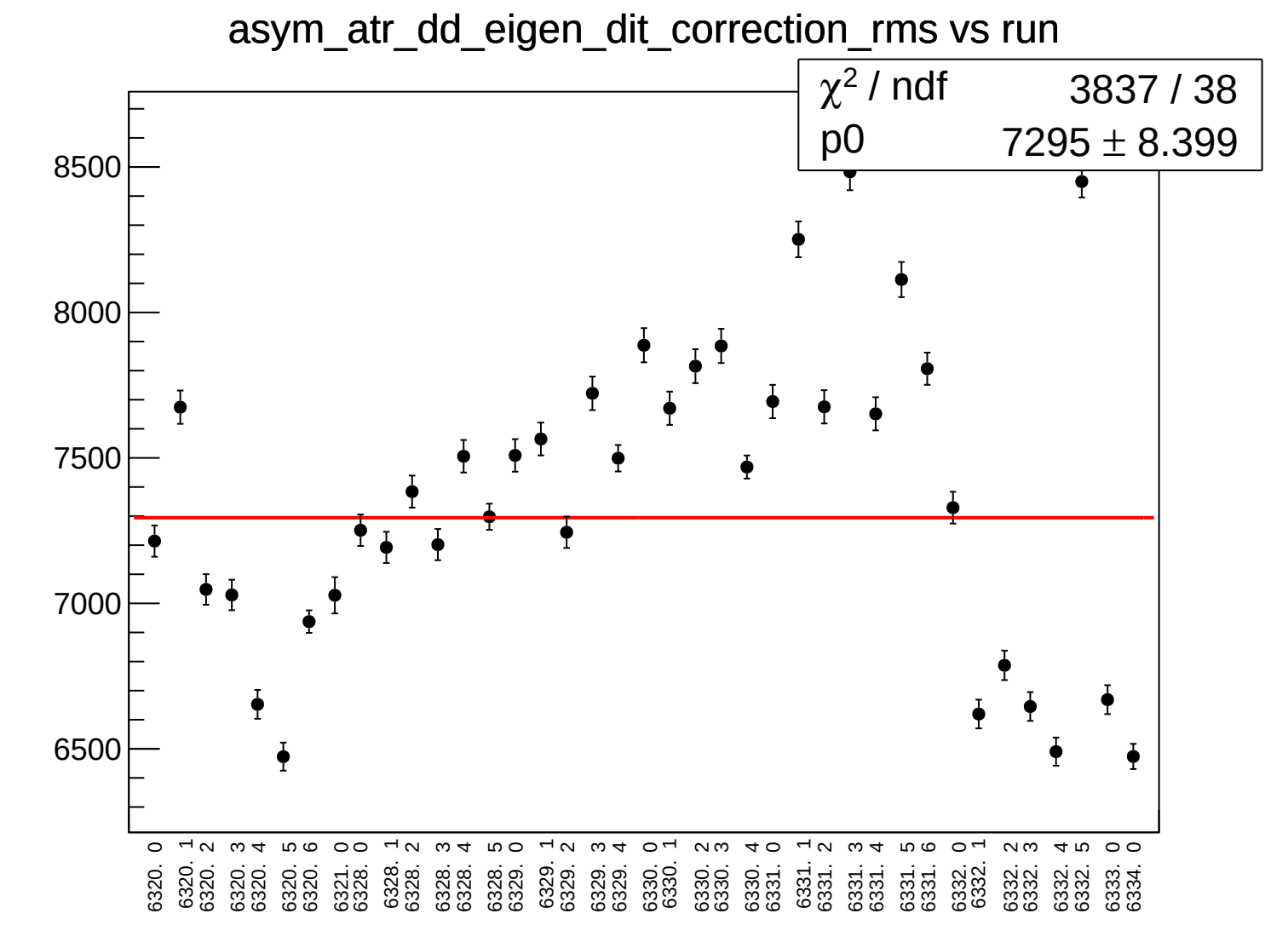

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 27.85 / 38
p0 873.7 ± 3919
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −231.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

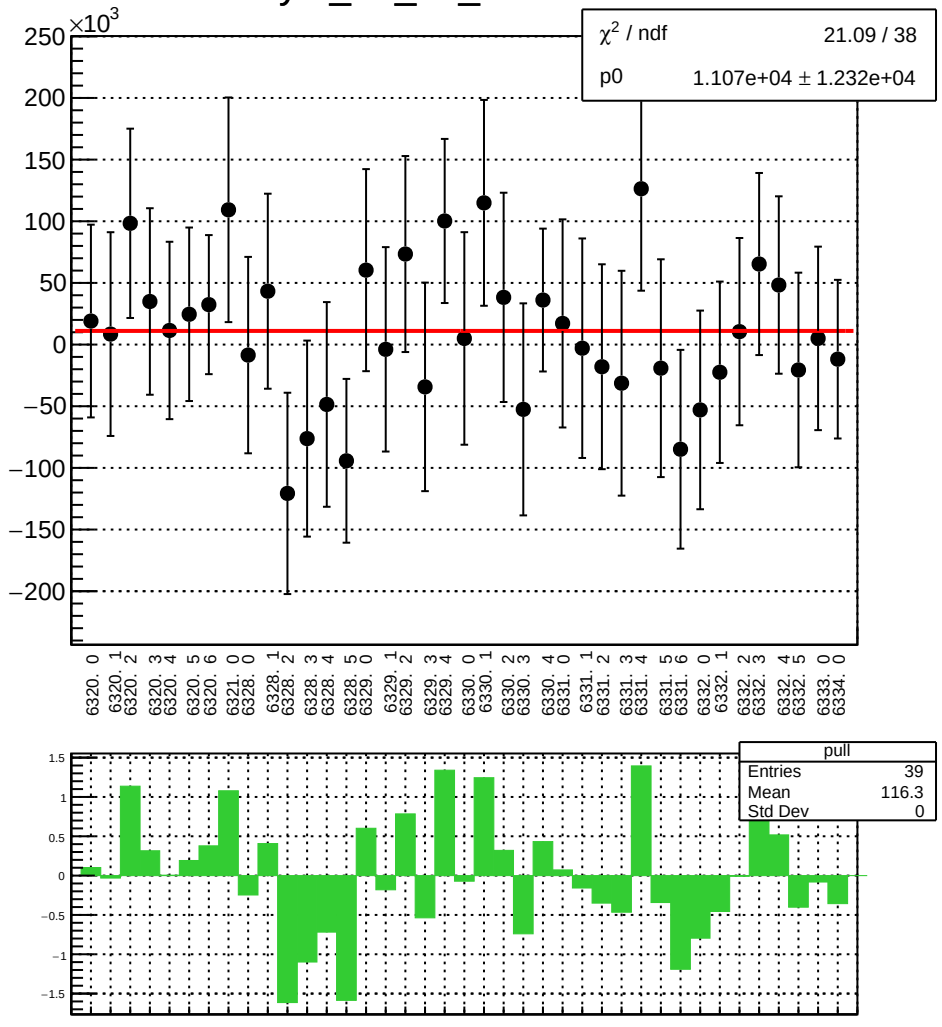

pull1D
Entries 39
Mean 0.01414
Std Dev 0.8449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

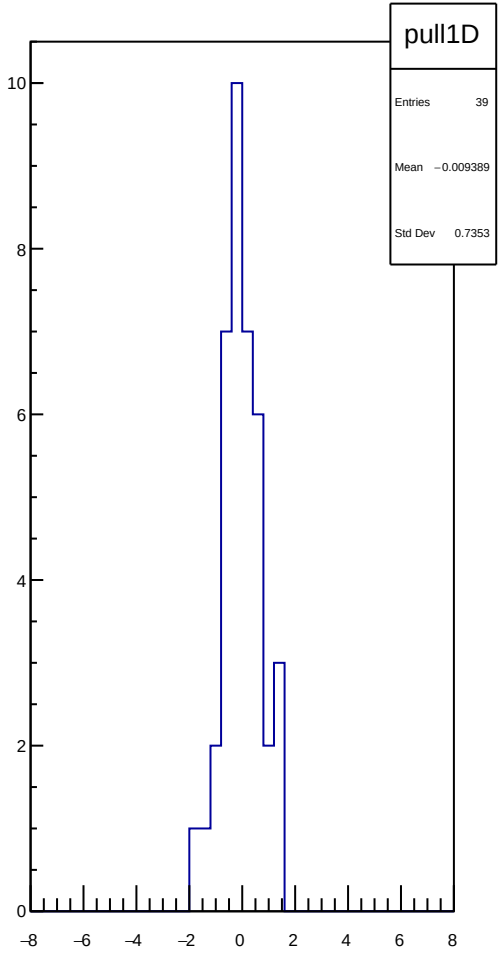

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 47.43 / 38
p0 2413 ± 2.771
2460
2440
2420
2400
2380
2360
2340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

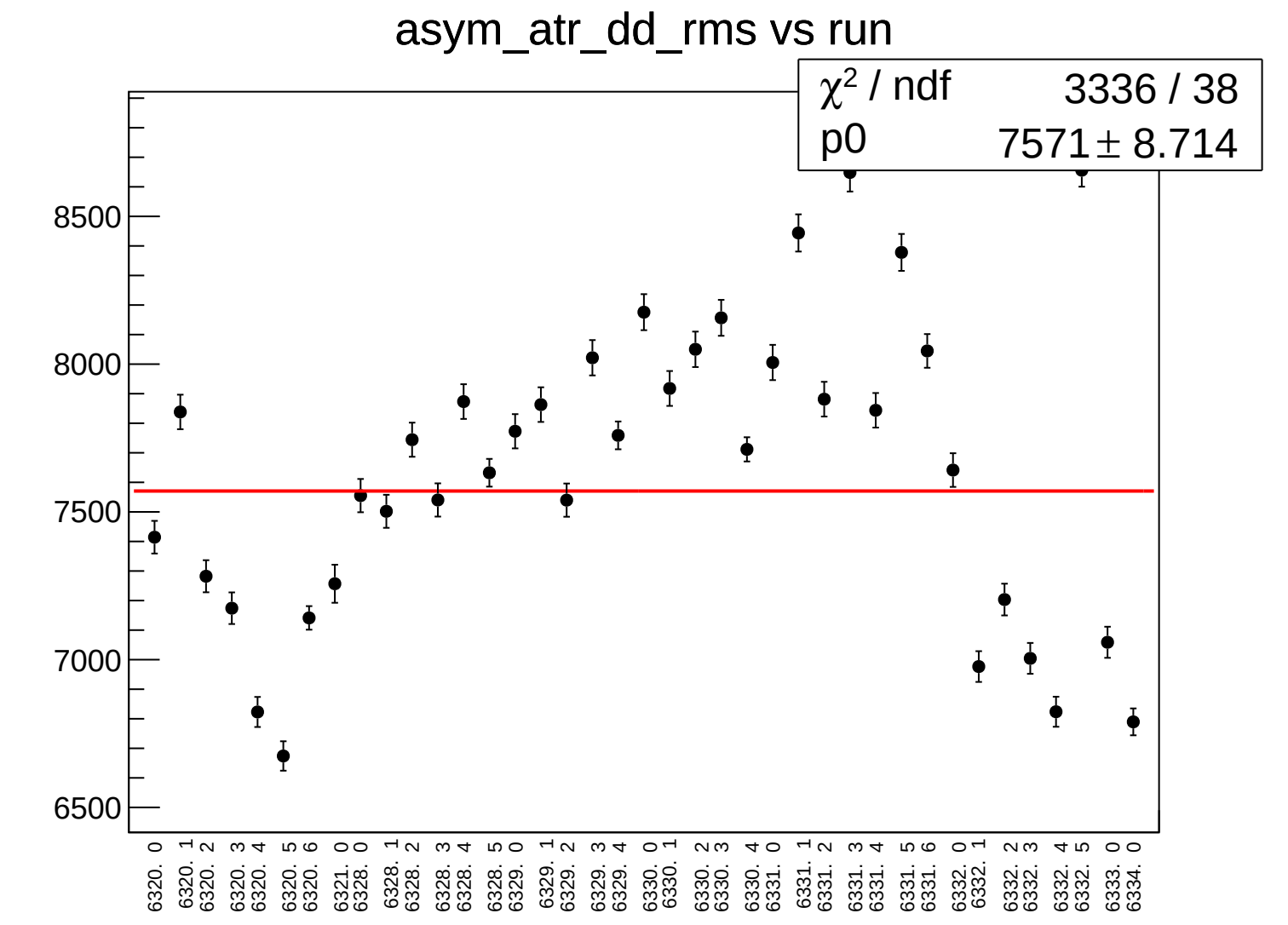

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 −9564 ± 1.188e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

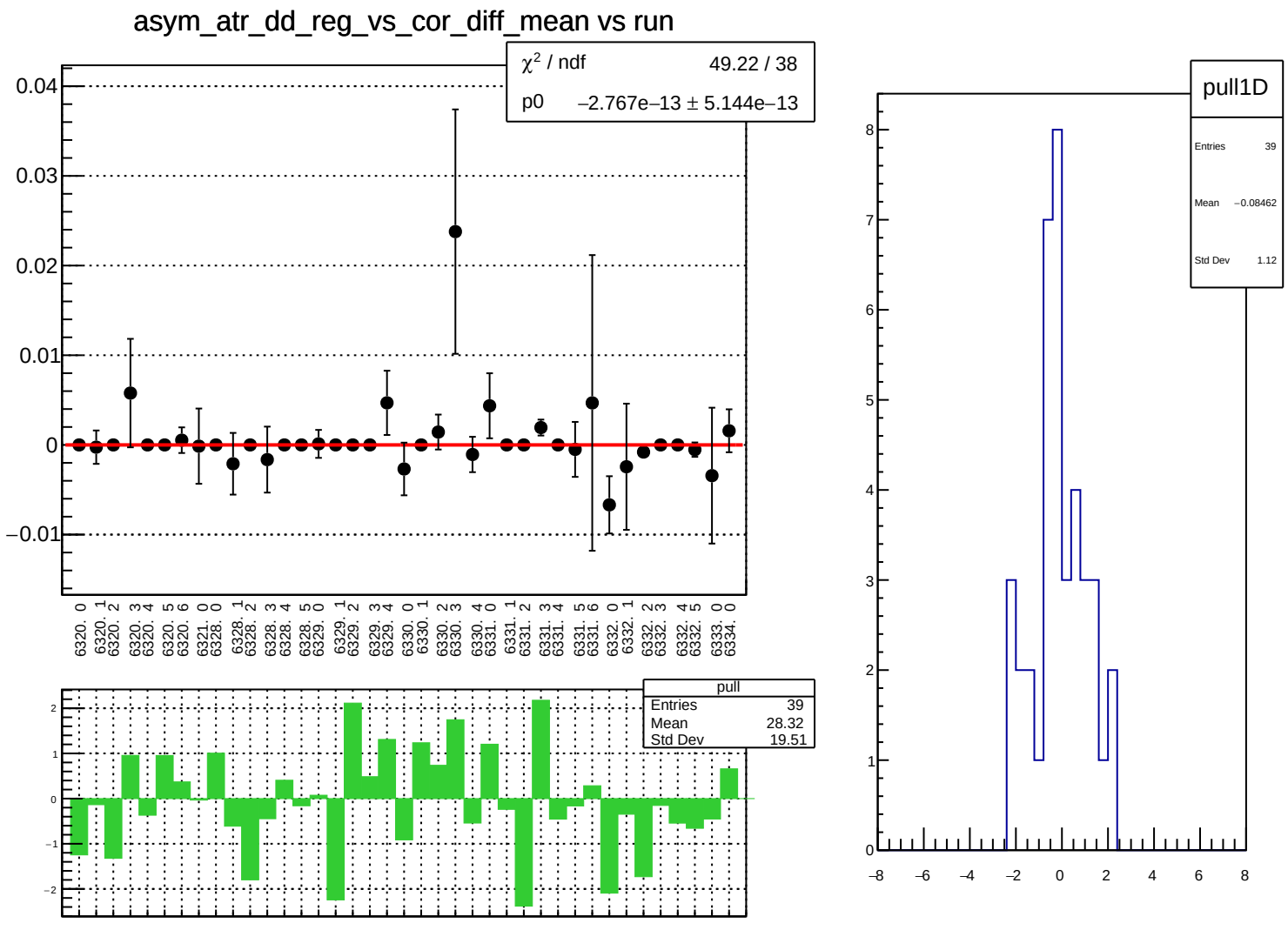

pull1D
Entries 39
Mean 0.01011
Std Dev 0.7946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

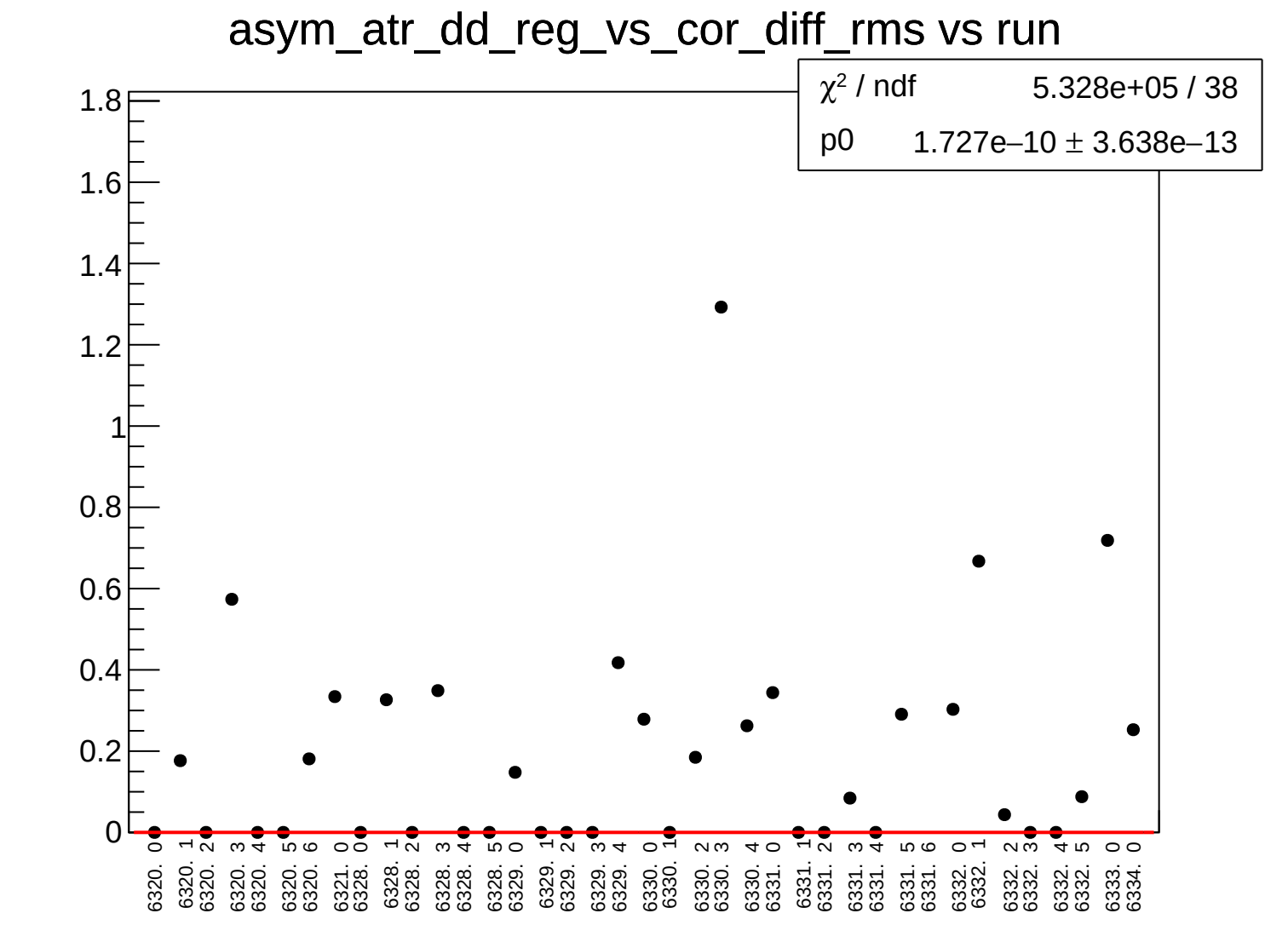

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3837 / 38
p0 7295 ± 8.399
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

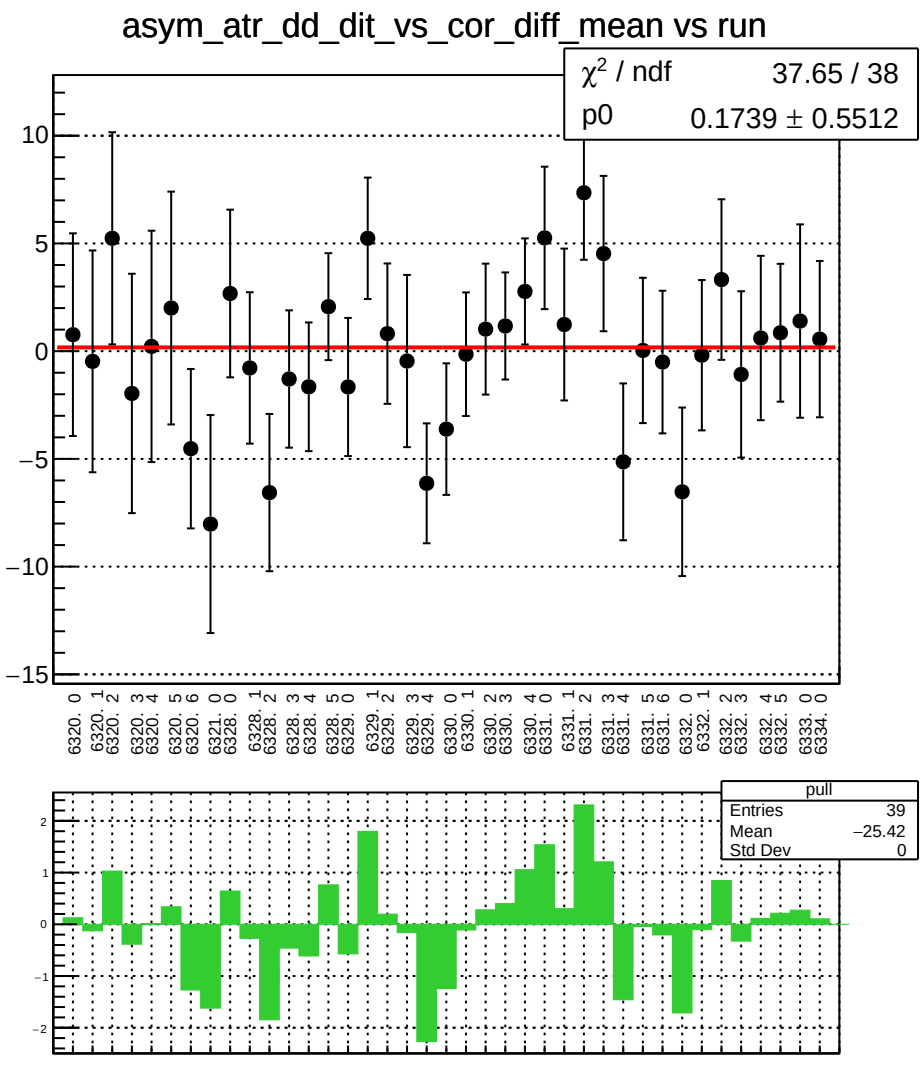

asym_atr_dd_mean vs run
×10^3
χ² / ndf 21.09 / 38
p0 1.107e+04 ± 1.232e+04
250
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 116.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

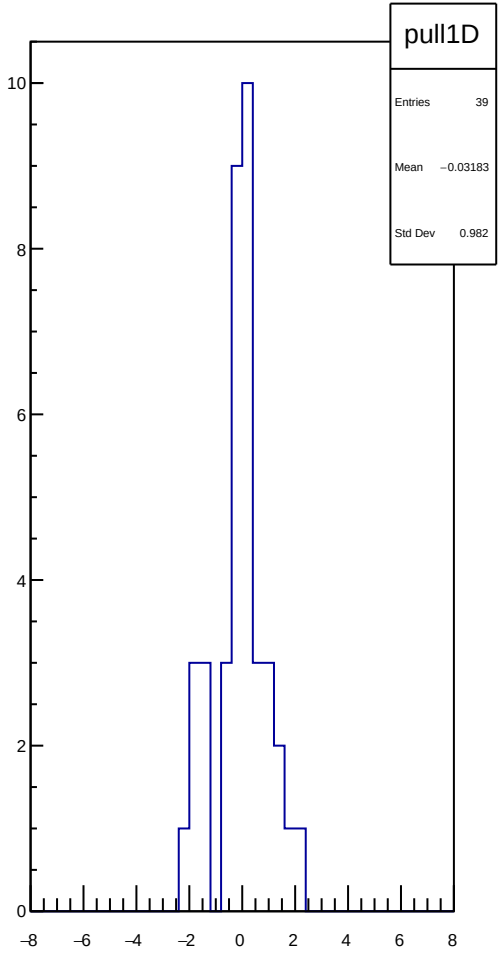

pull1D
Entries 39
Mean −0.009389
Std Dev 0.7353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

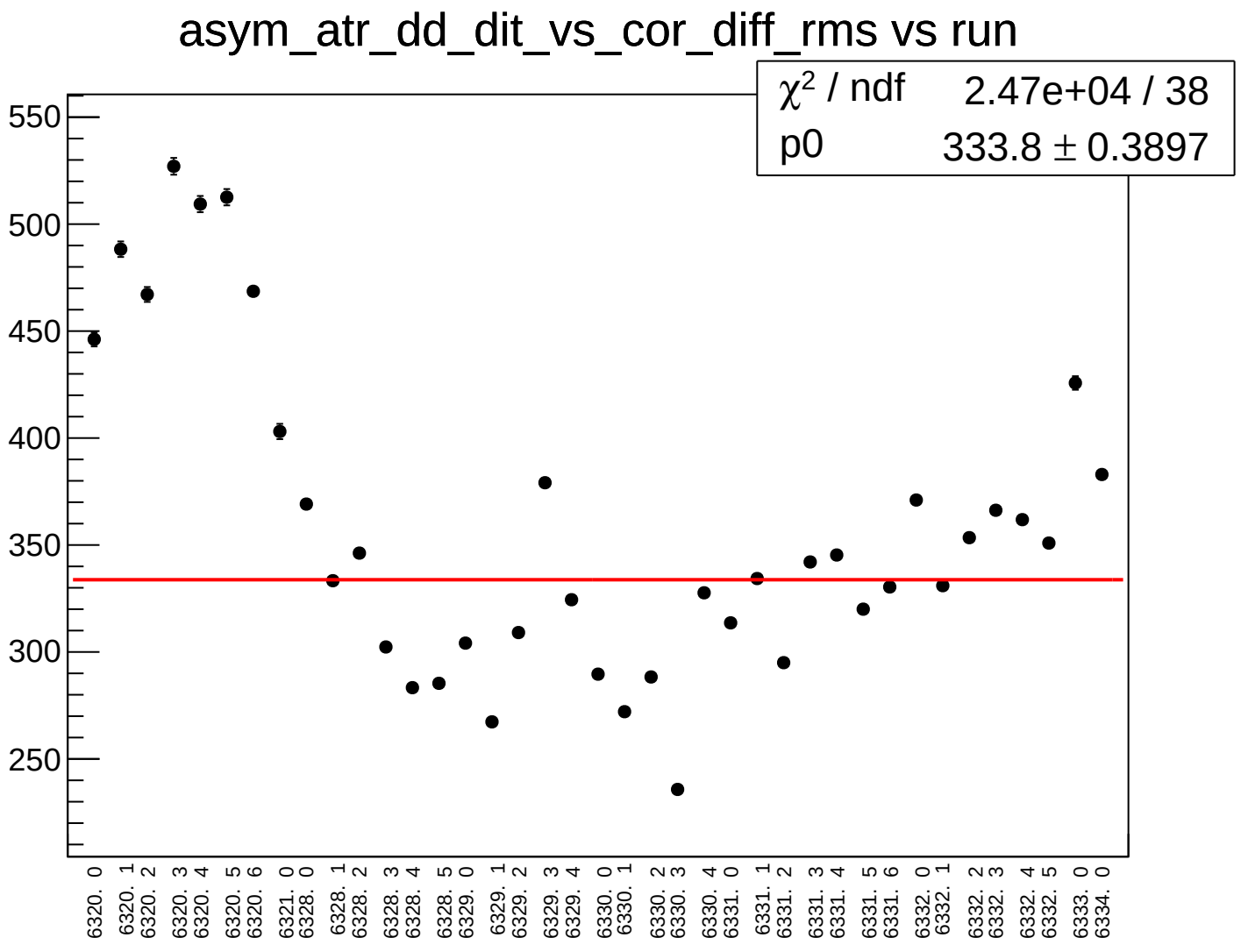

asym_atr_dd_rms vs run
χ² / ndf 3336 / 38
p0 7571 ± 8.714
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

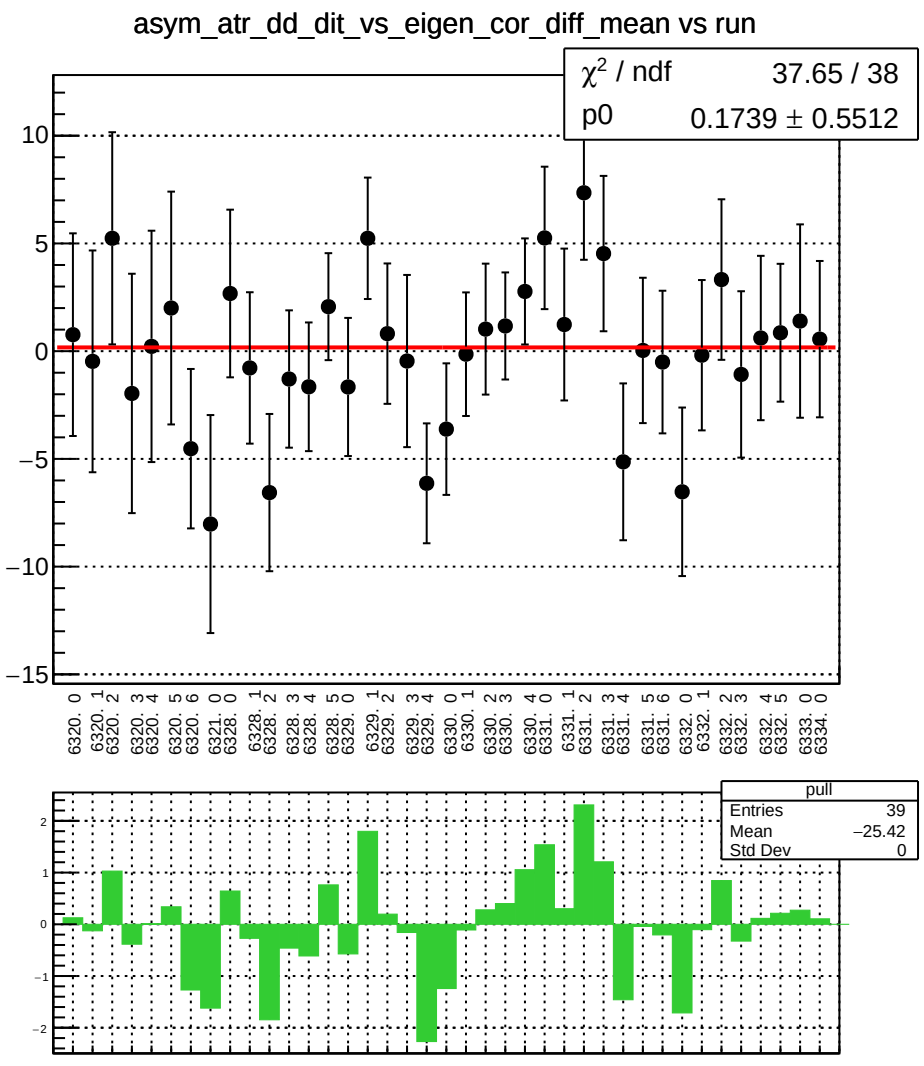

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.22 / 38
p0 −2.767e−13 ± 5.144e−13
0.04
0.03
0.02
0.01
0
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.32
Std Dev 19.51
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.08462
Std Dev 1.12
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

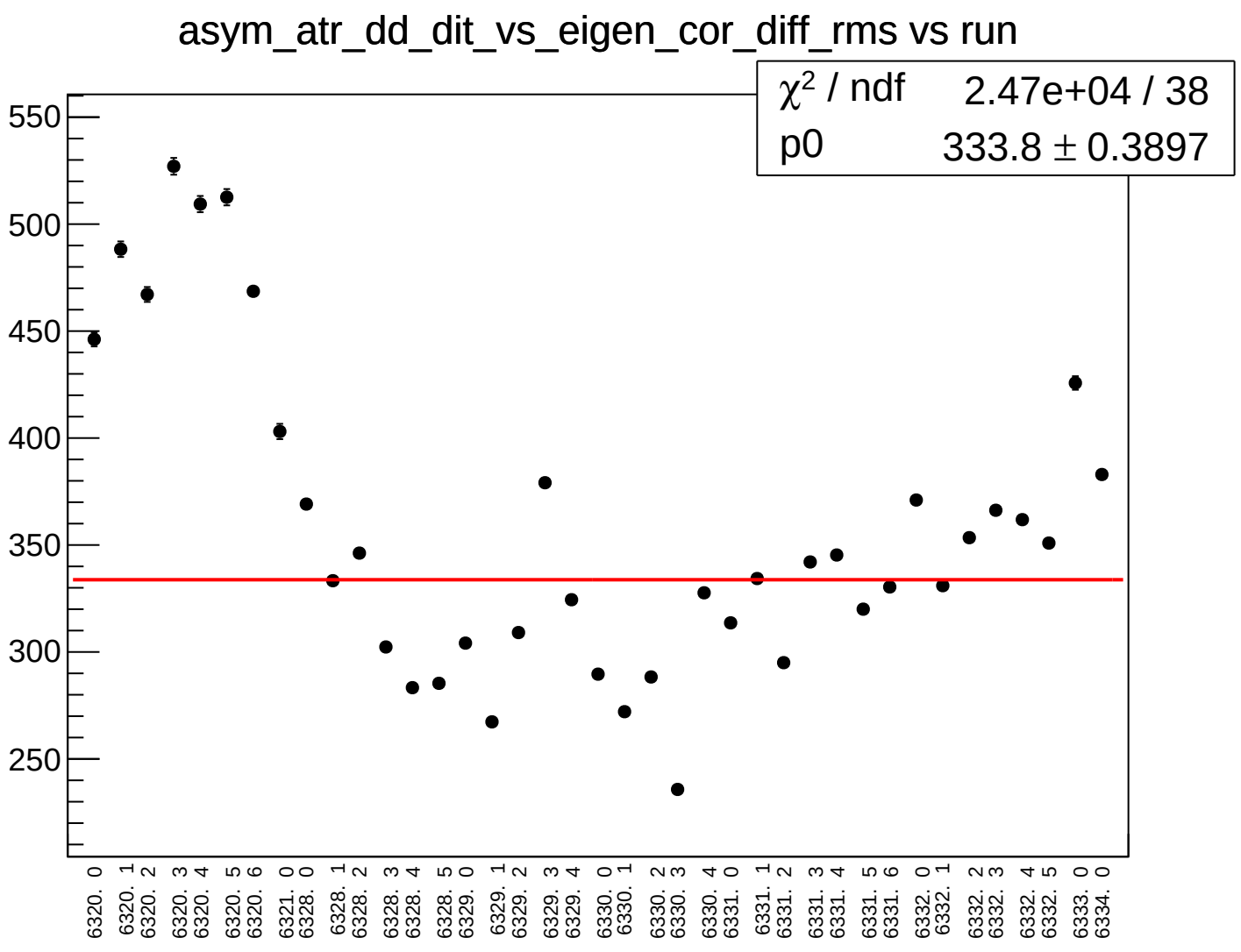

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.328e+05 / 38
p0 1.727e−10 ± 3.638e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

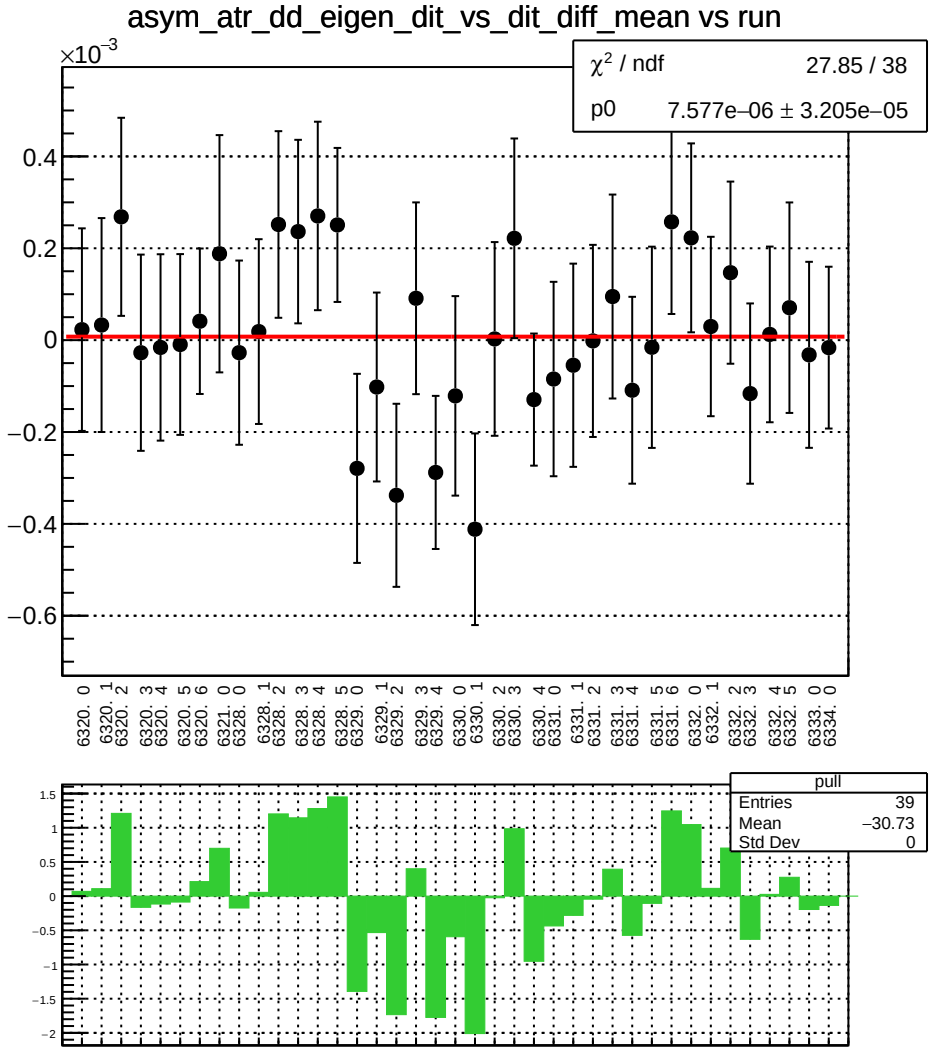

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.65 / 38
p0 0.1739 ± 0.5512
pull
Entries 39
Mean −25.42
Std Dev 0

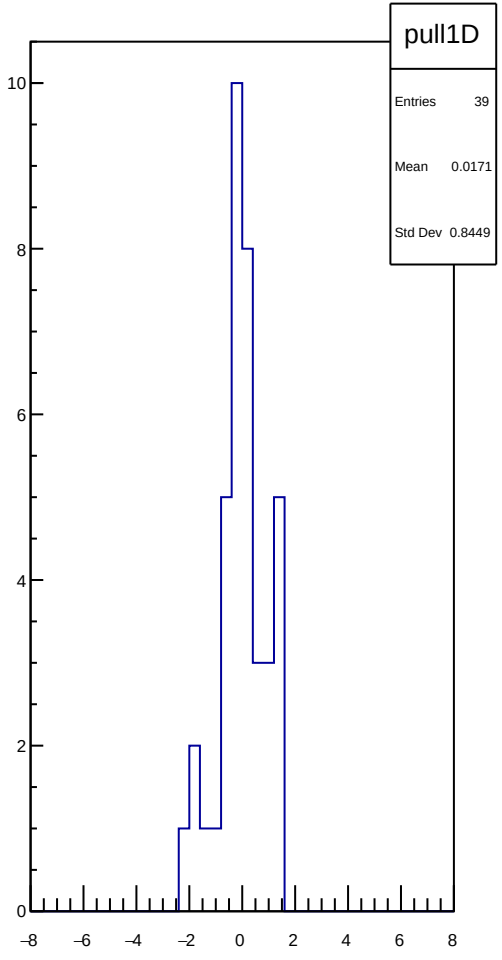

pull1D
Entries 39
Mean −0.03183
Std Dev 0.982

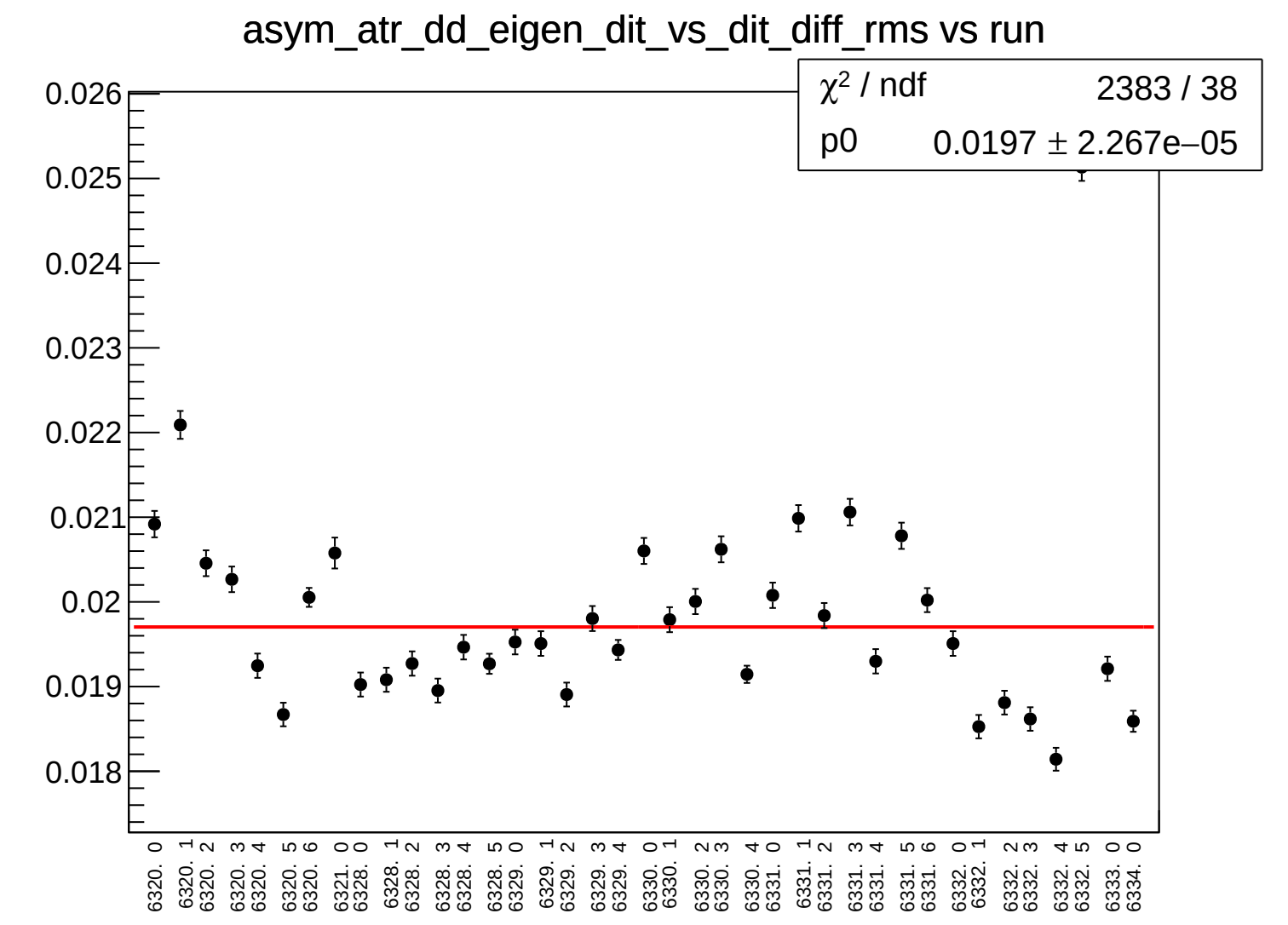

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.47e+04 / 38
p0 333.8 ± 0.3897
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

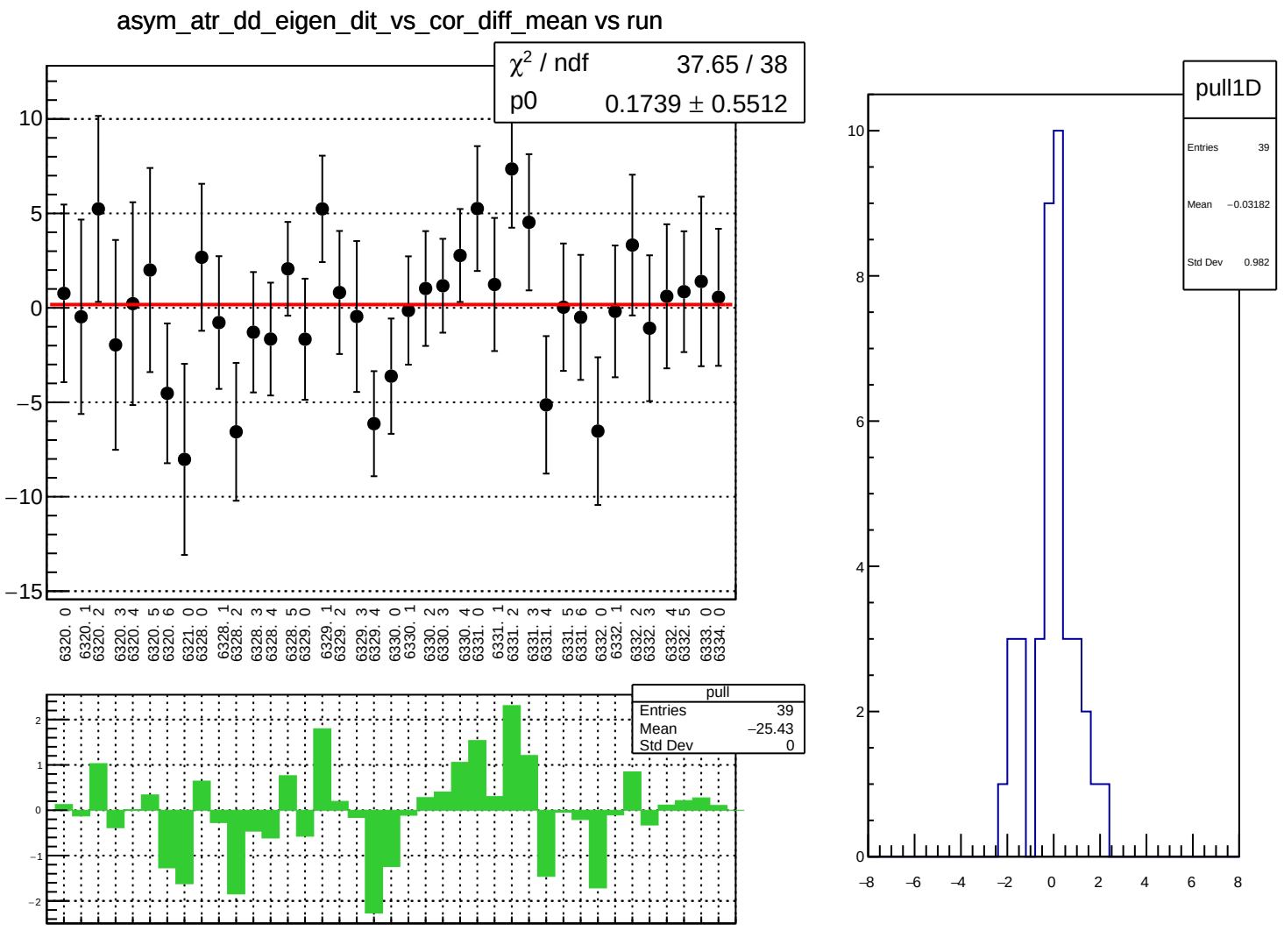

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.65 / 38
p0 0.1739 ± 0.5512
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03183
Std Dev 0.982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

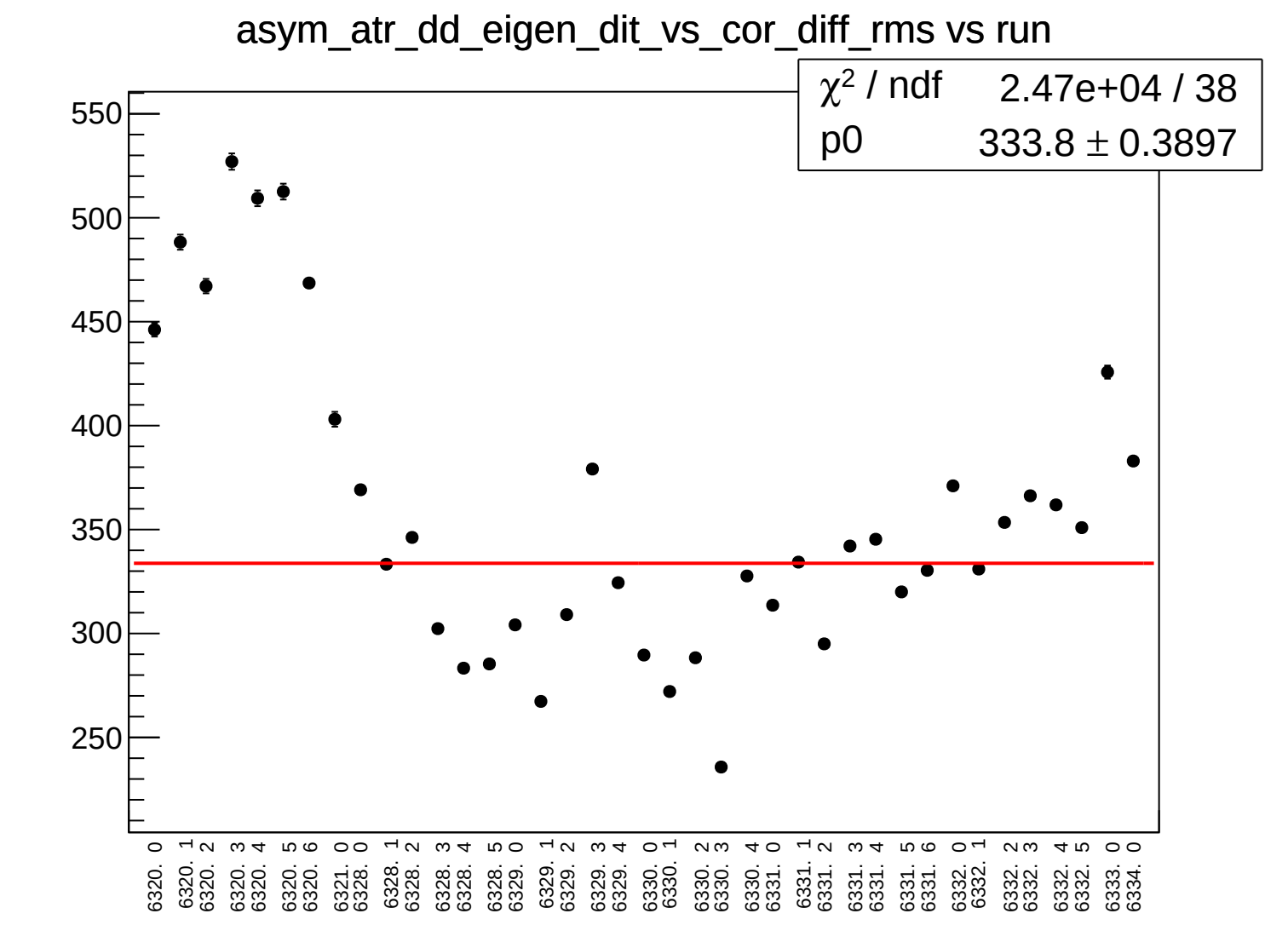

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.47e+04 / 38
p0 333.8 ± 0.3897
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

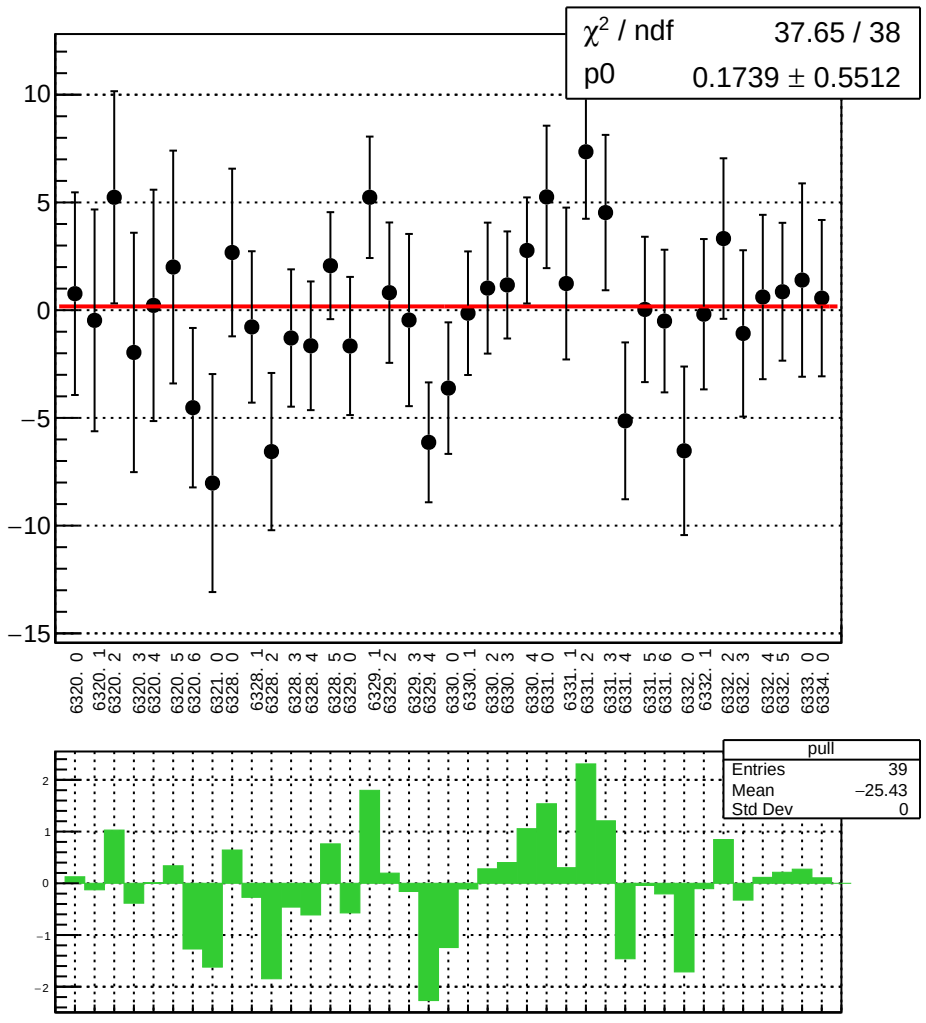

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.85 / 38
p0 7.577e−06 ± 3.205e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −30.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

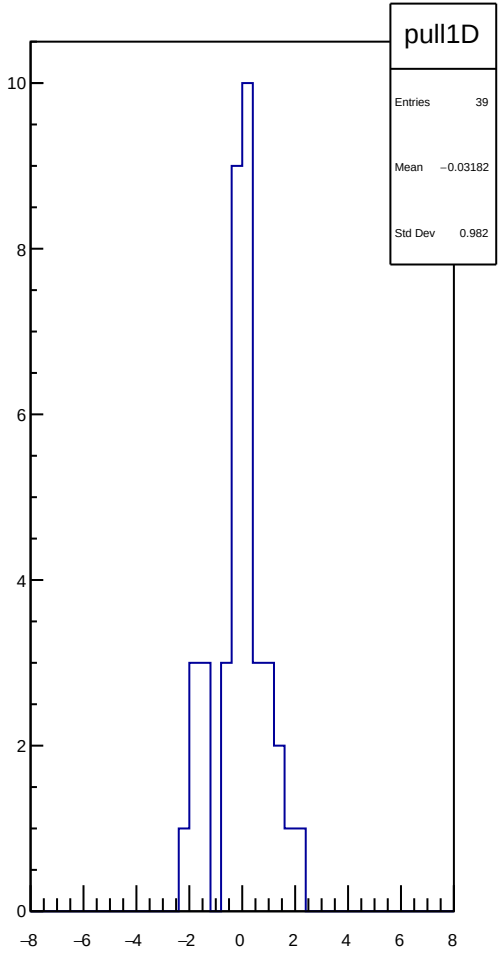

pull1D
Entries 39
Mean 0.0171
Std Dev 0.8449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

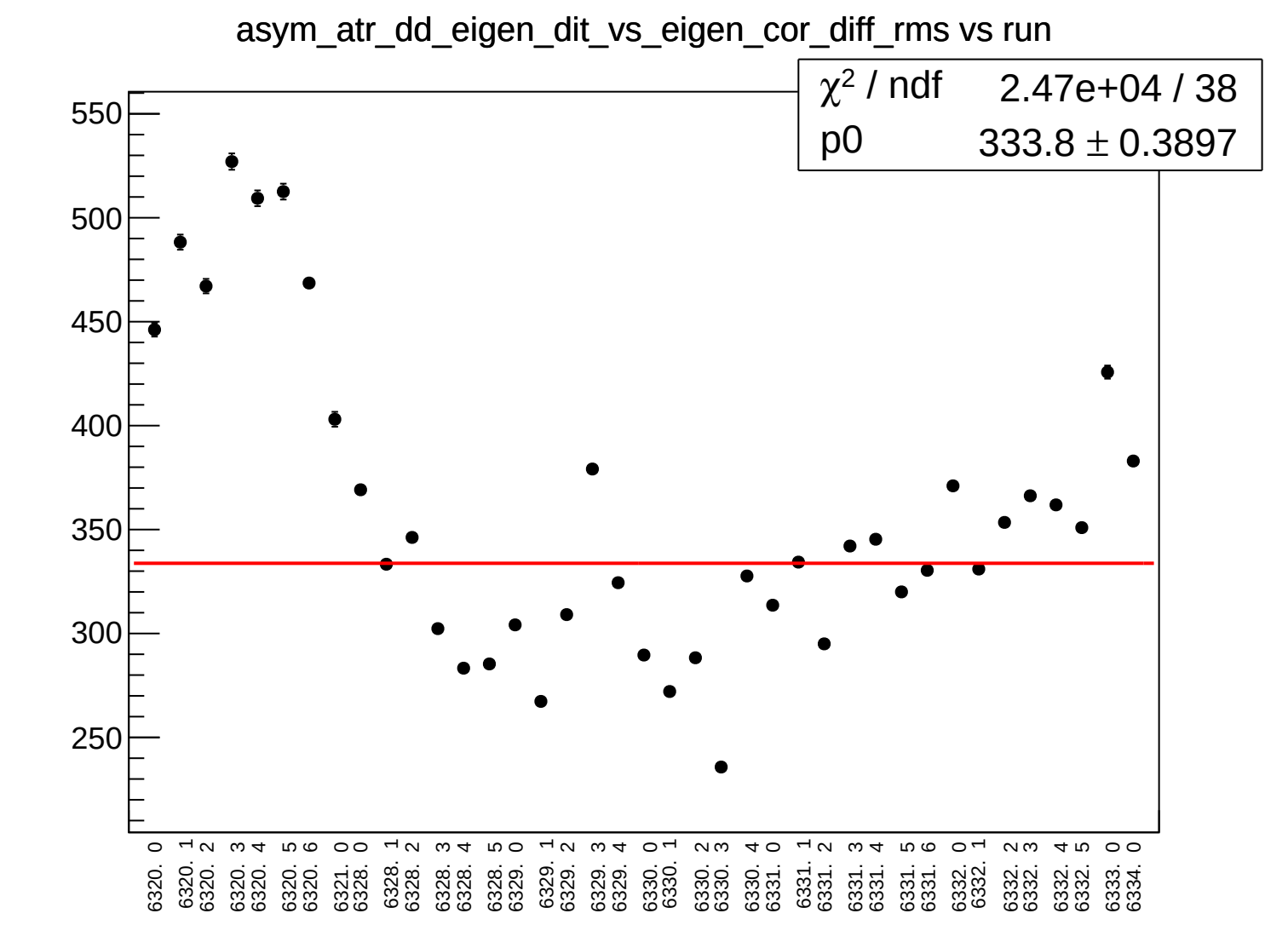

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2383 / 38
p0 0.0197 ± 2.267e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

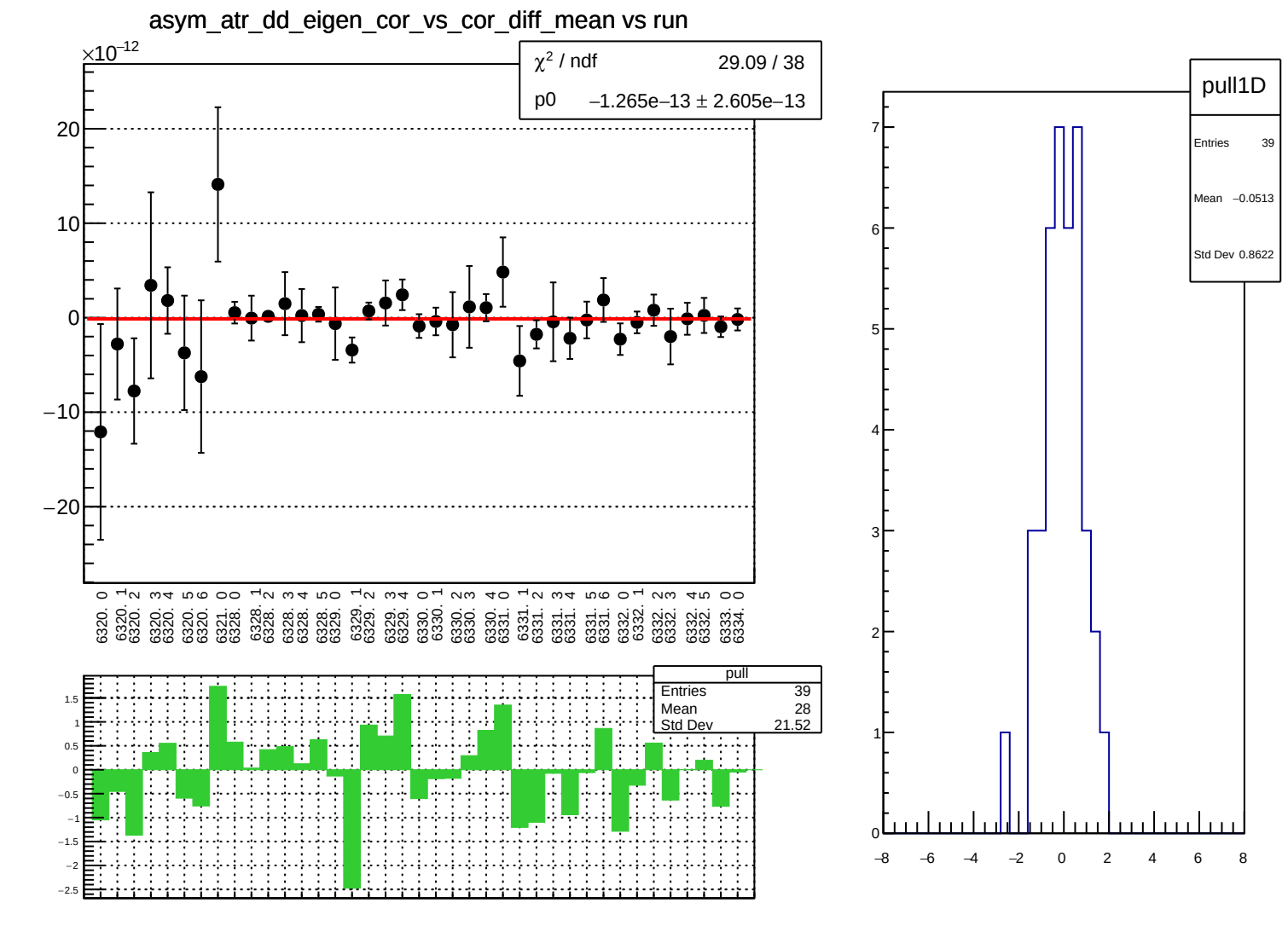

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.65 / 38
p0 0.1739 ± 0.5512
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03182
Std Dev 0.982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

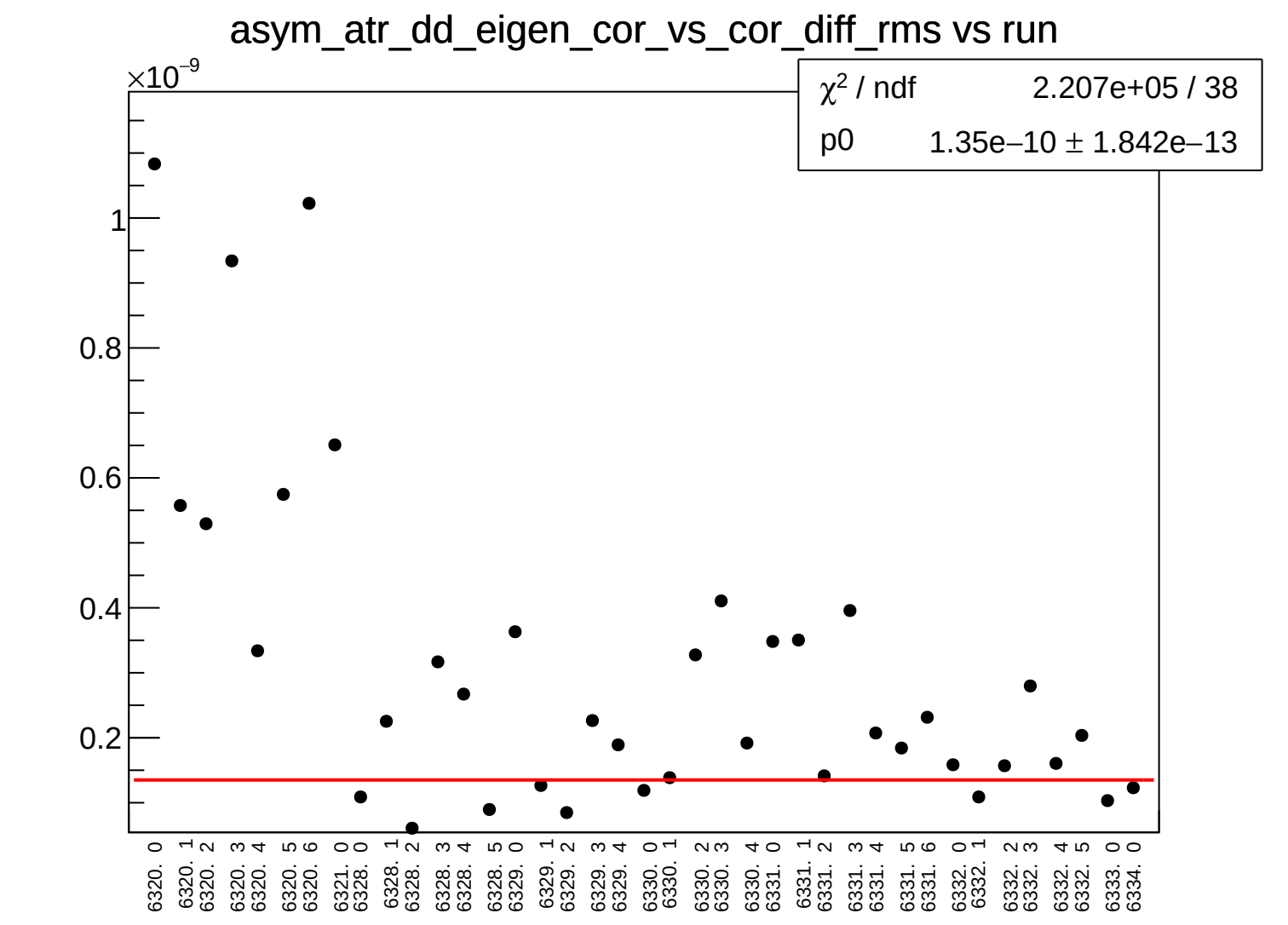

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.47e+04 / 38
p0 333.8 ± 0.3897
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

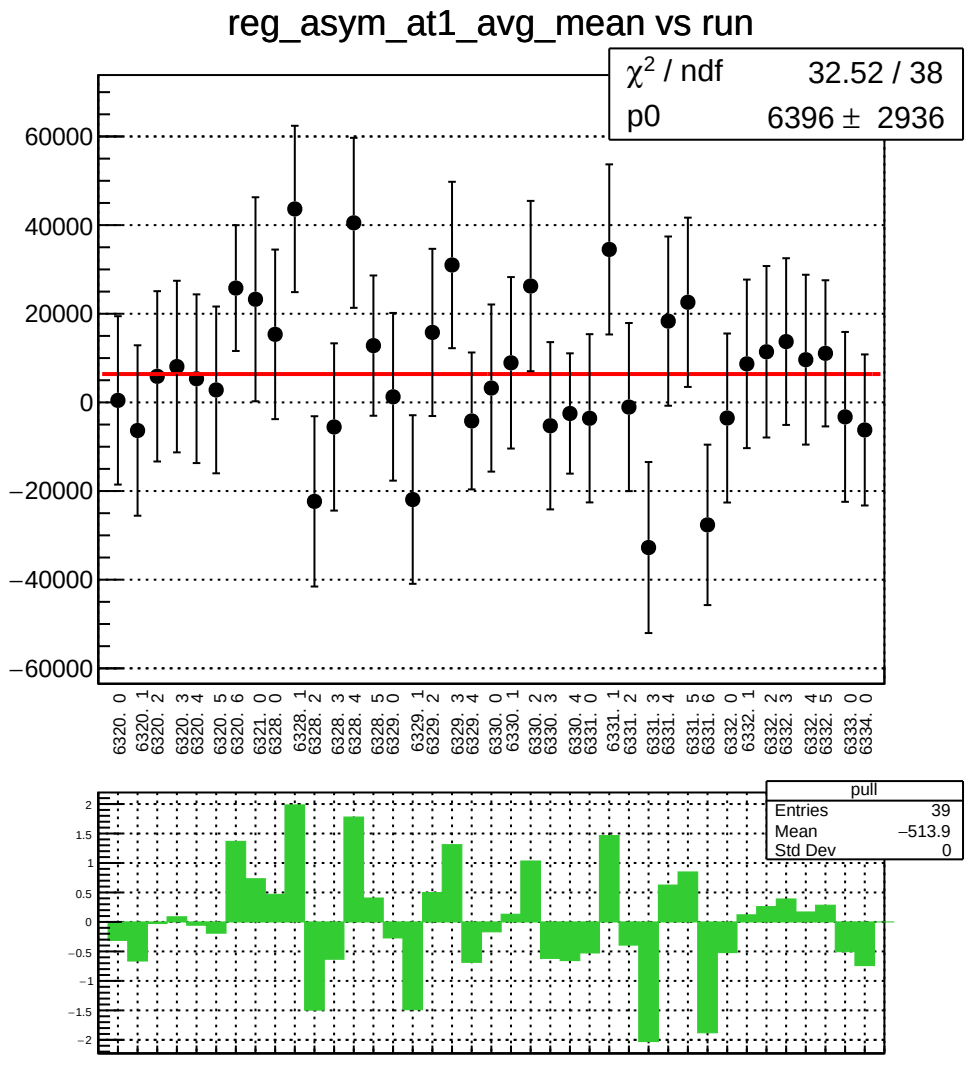

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.65 / 38
p0 0.1739 ± 0.5512
pull
Entries 39
Mean −25.43
Std Dev 0

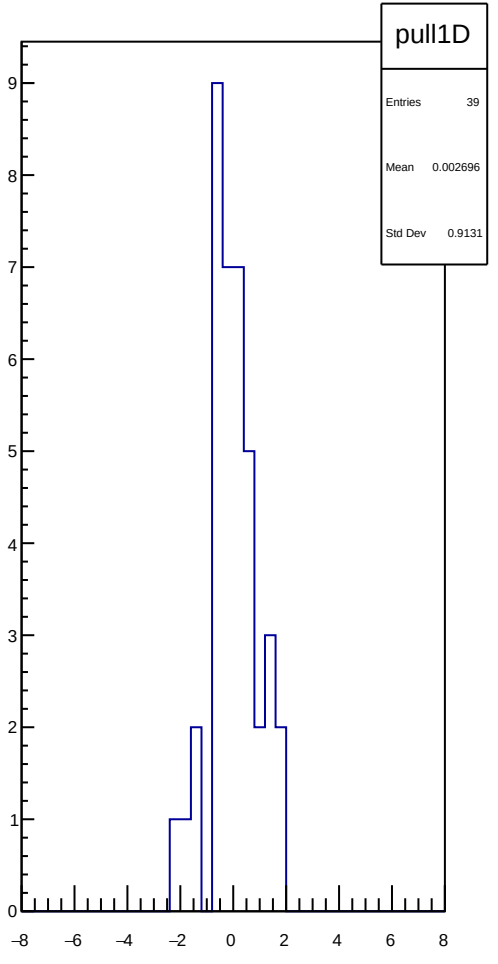

pull1D
Entries 39
Mean −0.03182
Std Dev 0.982


asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.47e+04 / 38
p0 333.8 ± 0.3897
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.09 / 38
p0 −1.265e−13 ± 2.605e−13
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28
Std Dev 21.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.0513
Std Dev 0.8622
7
6
5
4
3
2
1
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 2.207e+05 / 38
p0 1.35e−10 ± 1.842e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


reg_asym_at1_avg_mean vs run
χ² / ndf 32.52 / 38
p0 6396 ± 2936
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −513.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.002696
Std Dev 0.9131
9
8
7
6
5
4
3
2
1
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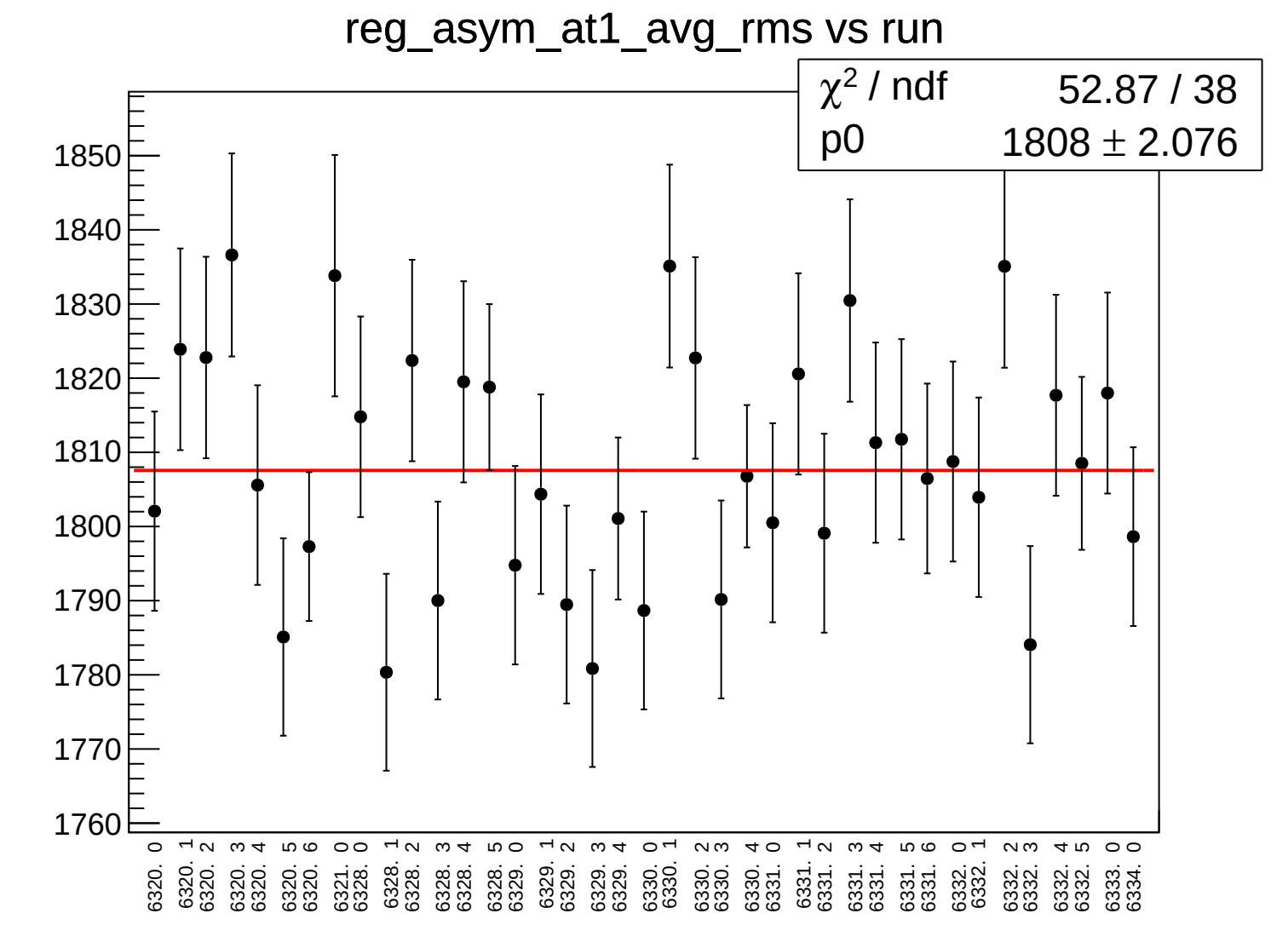
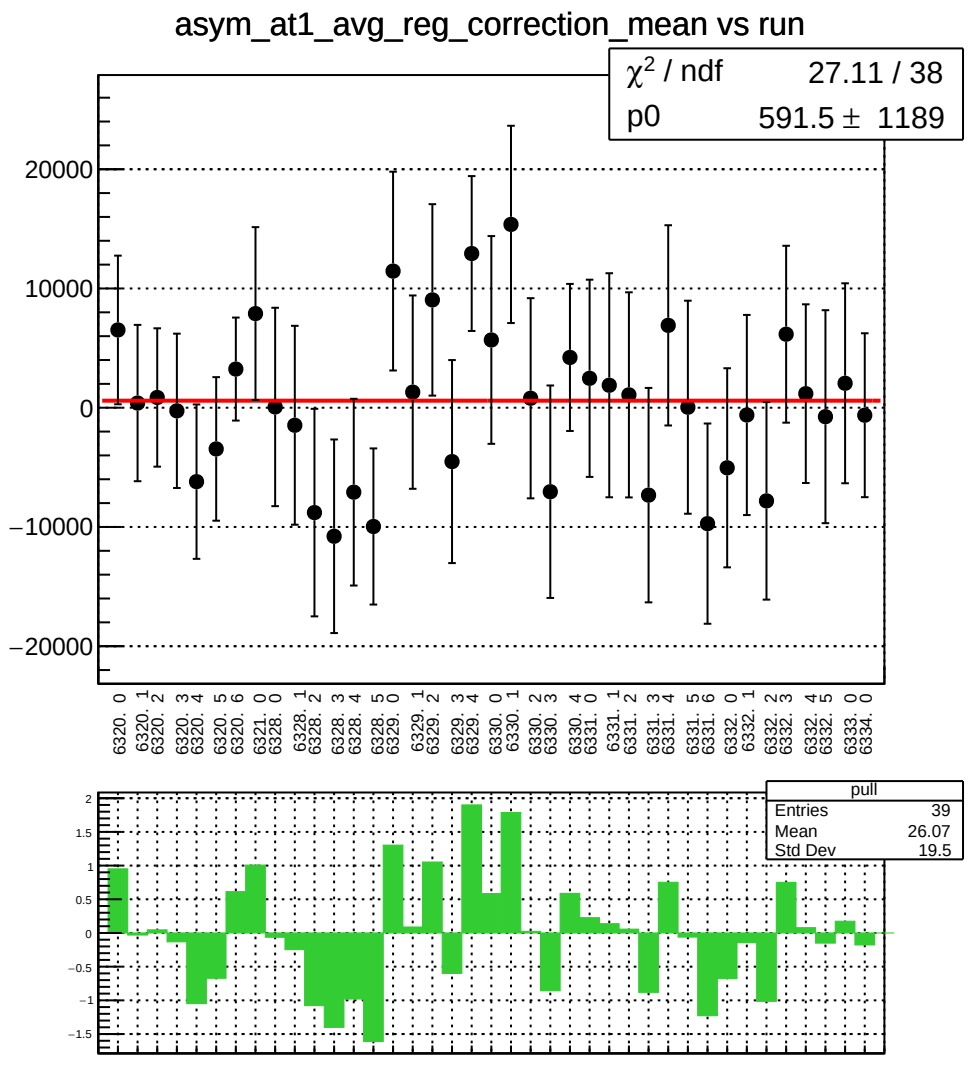
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 52.87 / 38
p0 1808 ± 2.076
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_reg_correction_mean vs run
χ² / ndf 27.11 / 38
p0 591.5 ± 1189
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.07
Std Dev 19.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02385
Std Dev 0.8334
8
7
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5
4
3
2
1
0
−8
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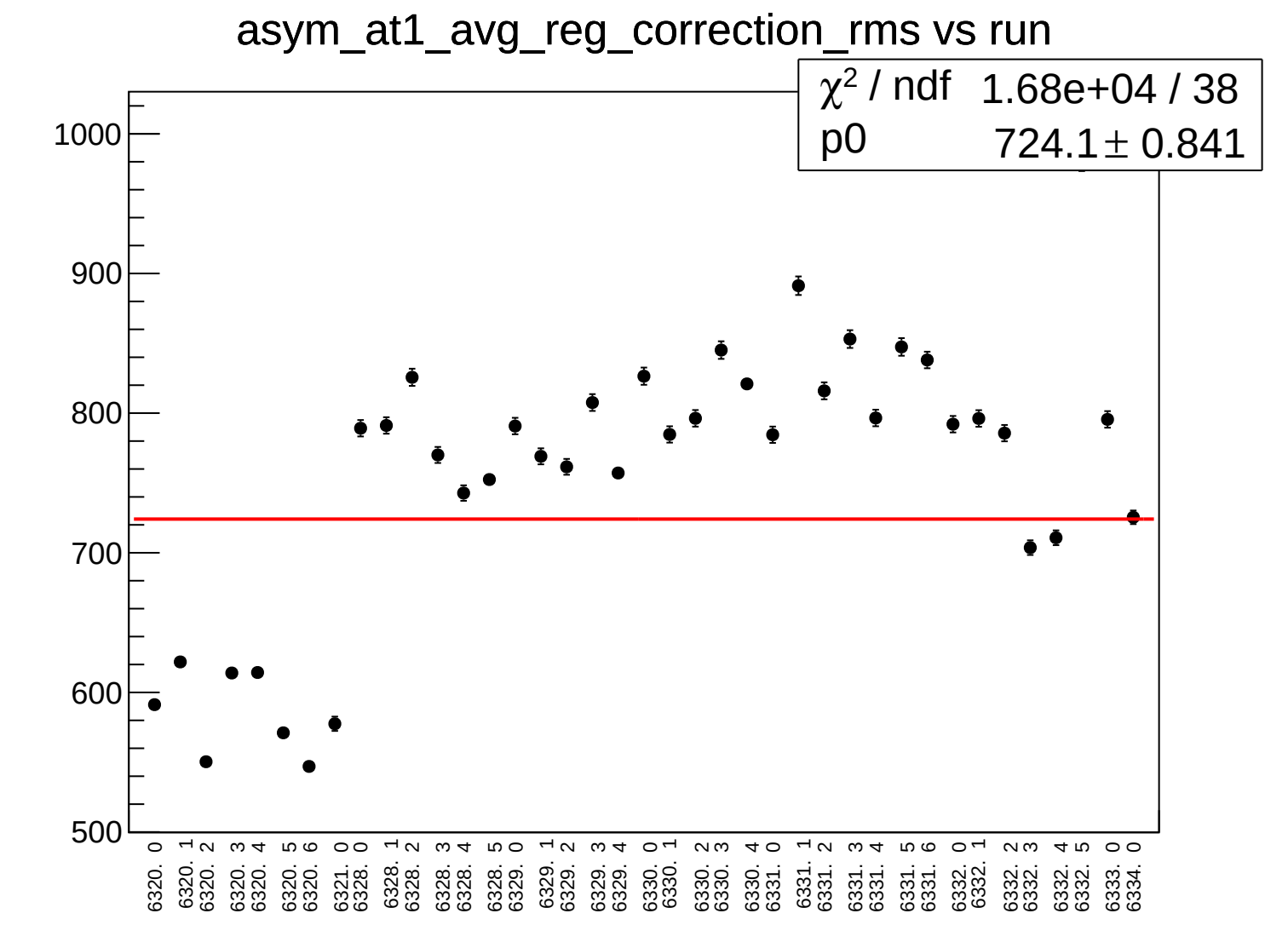
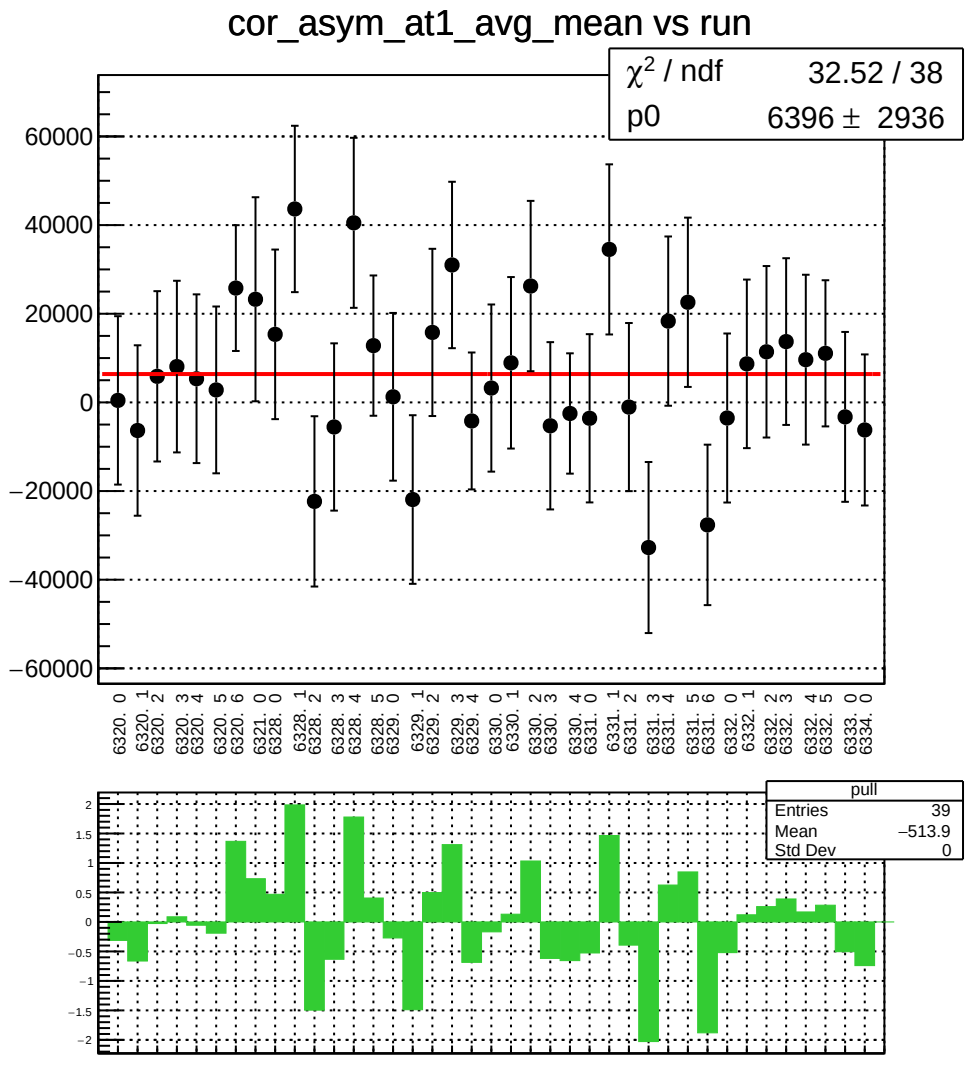
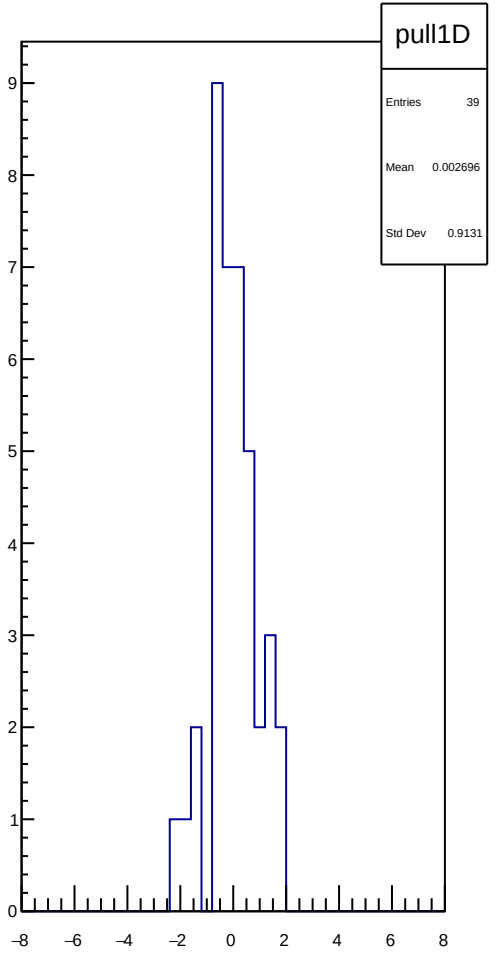
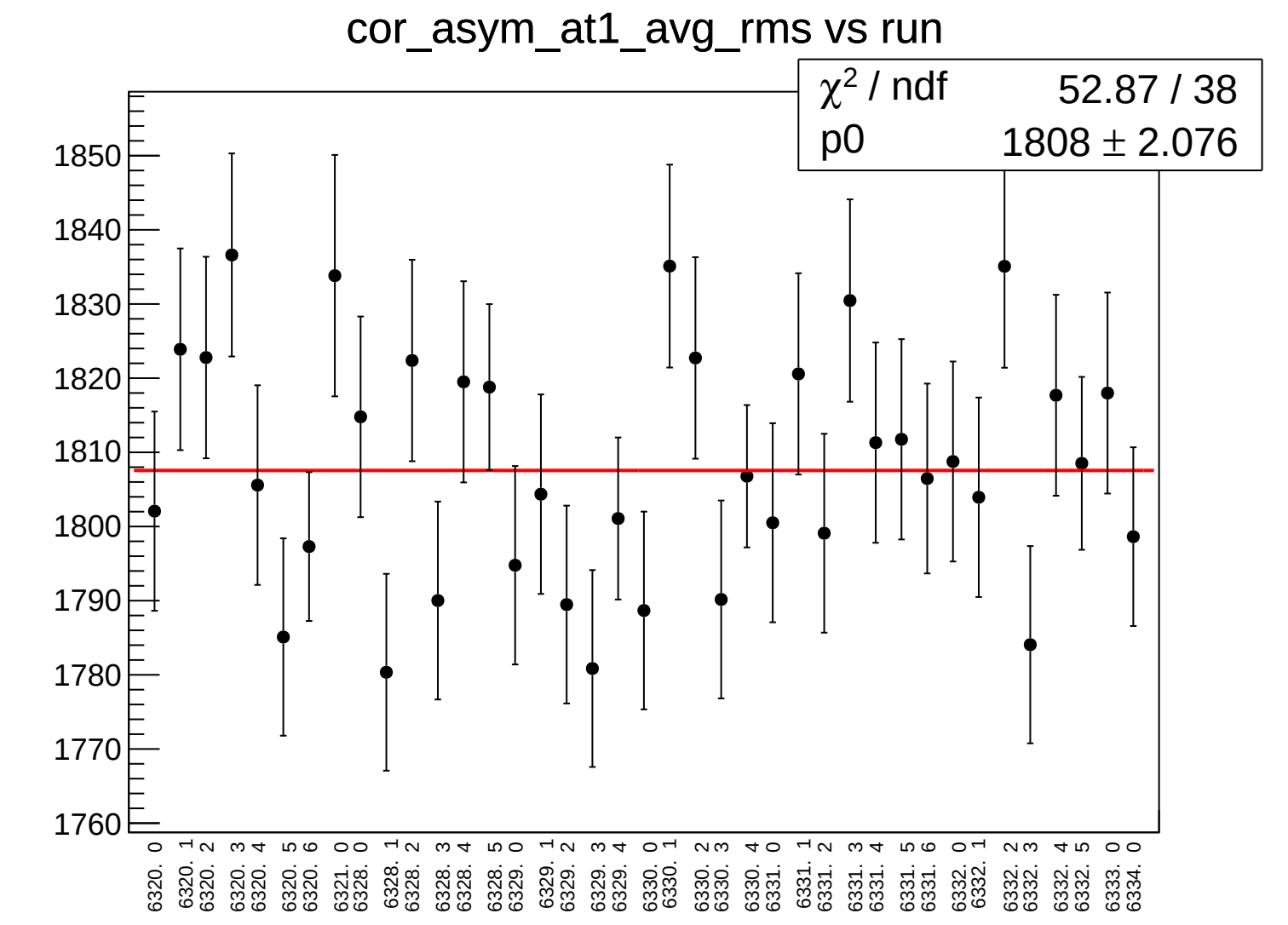
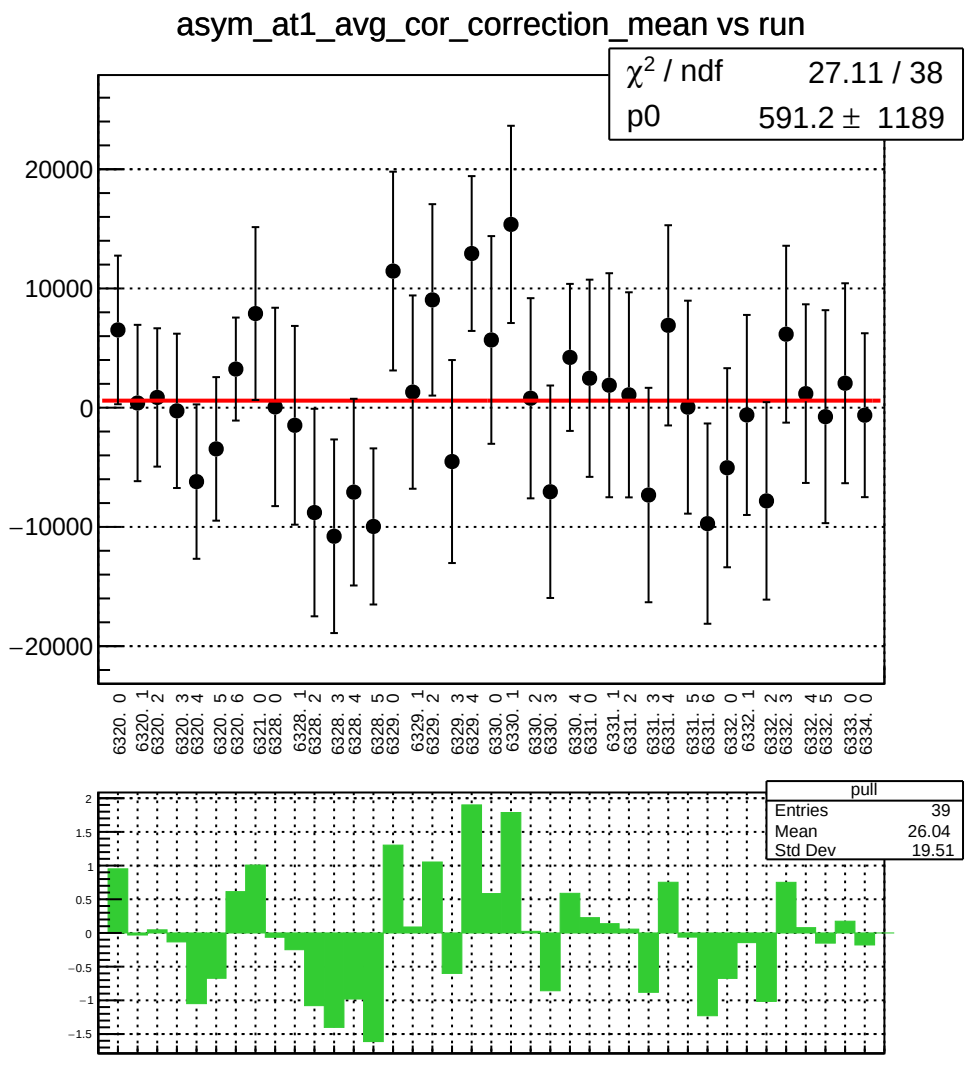
−4
−2
0
2
4
6
8

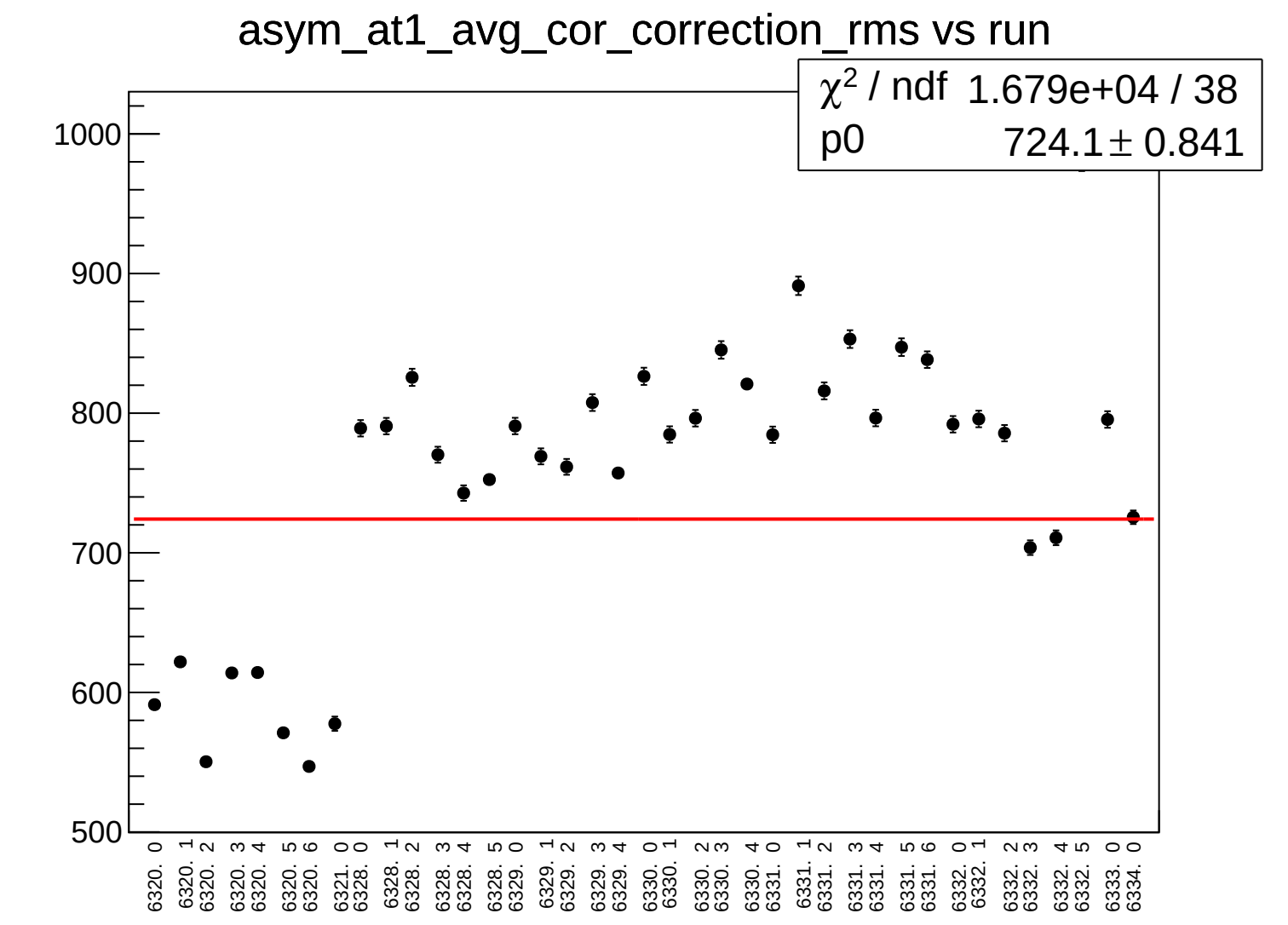

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.68e+04 / 38
p0 724.1 ± 0.841
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

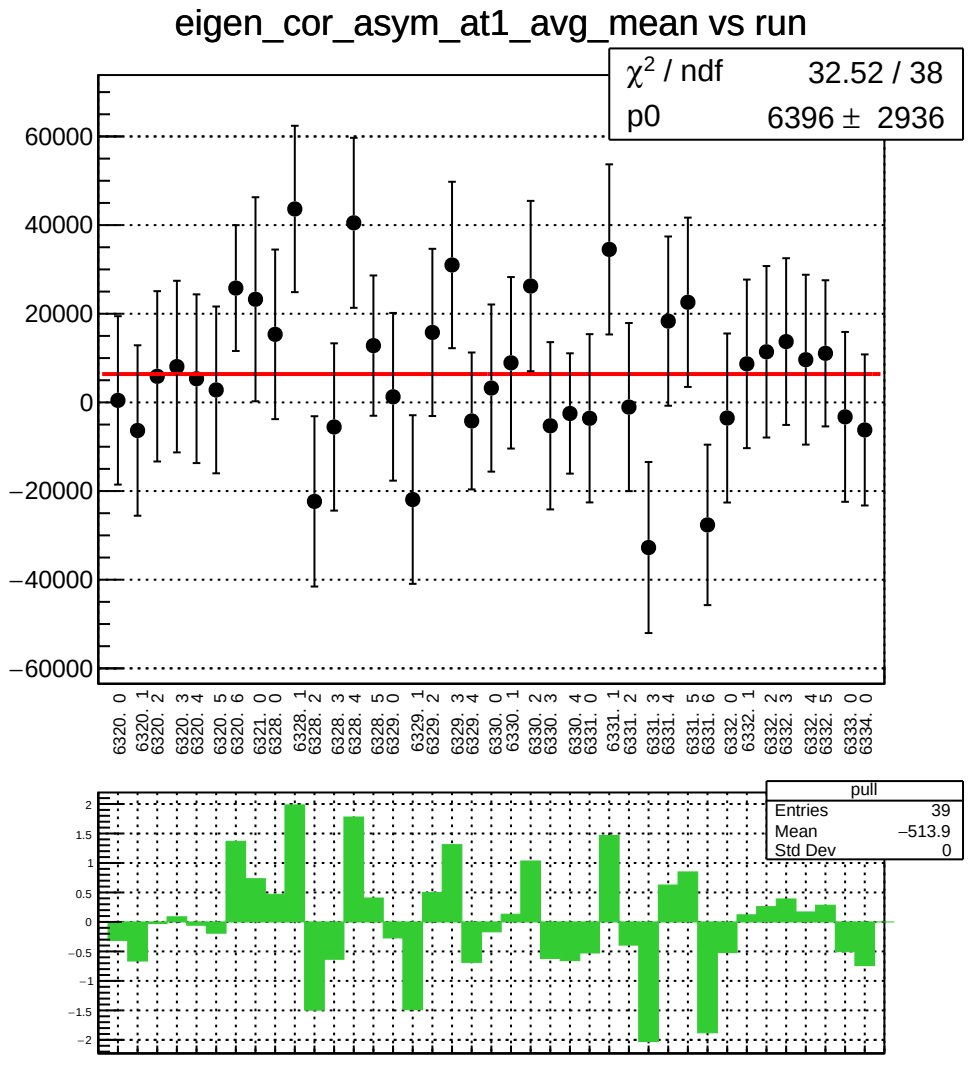

cor_asym_at1_avg_mean vs run
χ² / ndf 32.52 / 38
p0 6396 ± 2936
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −513.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

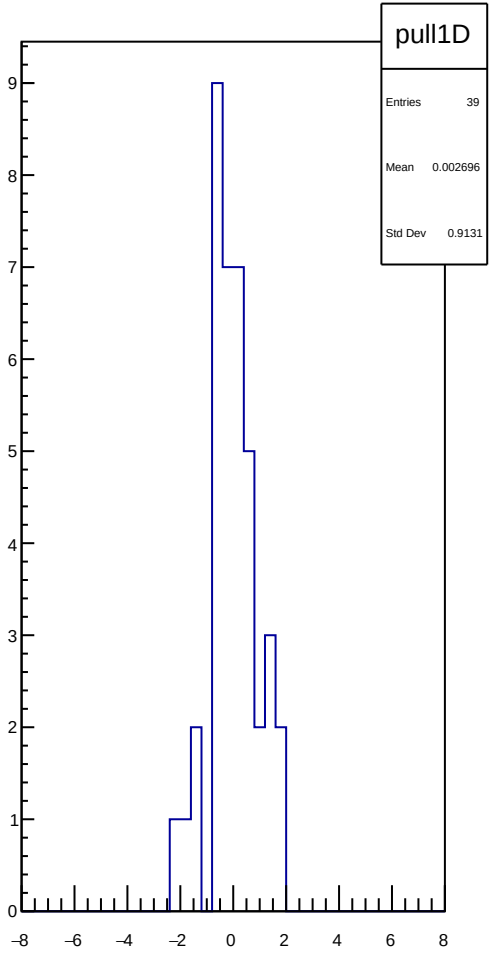

pull1D
Entries 39
Mean 0.002696
Std Dev 0.9131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 52.87 / 38
p0 1808 ± 2.076
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 27.11 / 38
p0 591.2 ± 1189
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.04
Std Dev 19.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02386
Std Dev 0.8334
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.679e+04 / 38
p0 724.1 ± 0.841
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 32.52 / 38
p0 6396 ± 2936
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −513.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.002696
Std Dev 0.9131
9
8
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5
4
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2
1
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−4
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6
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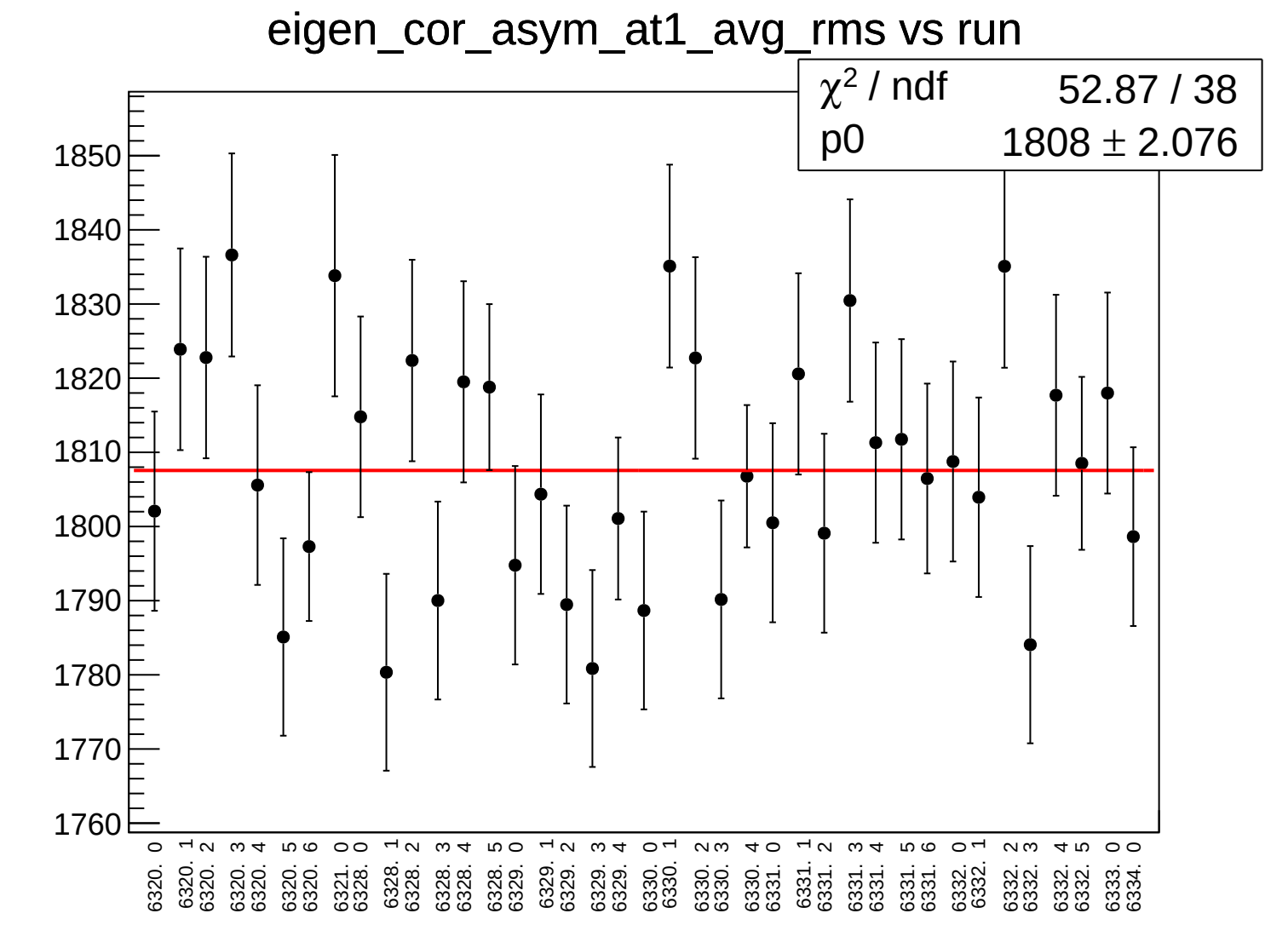
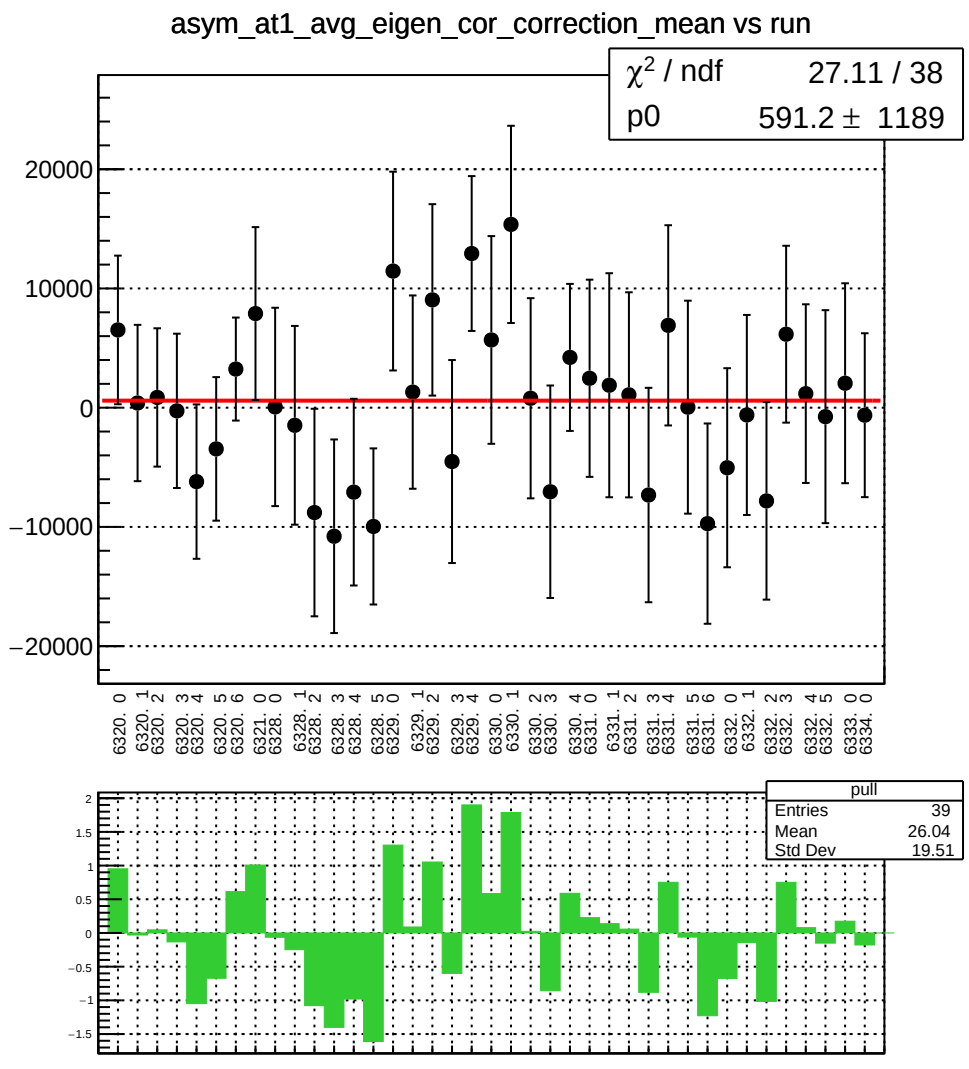

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 52.87 / 38
p0 1808 ± 2.076
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.11 / 38
p0 591.2 ± 1189
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
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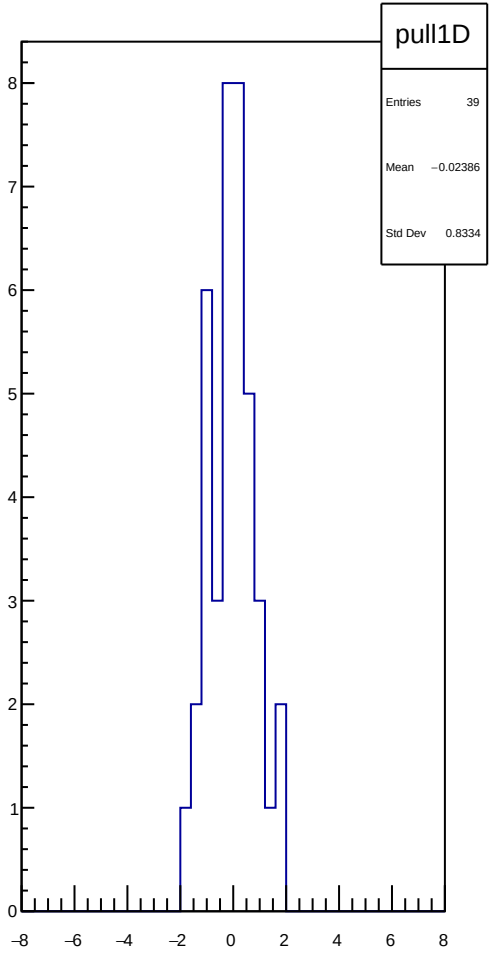
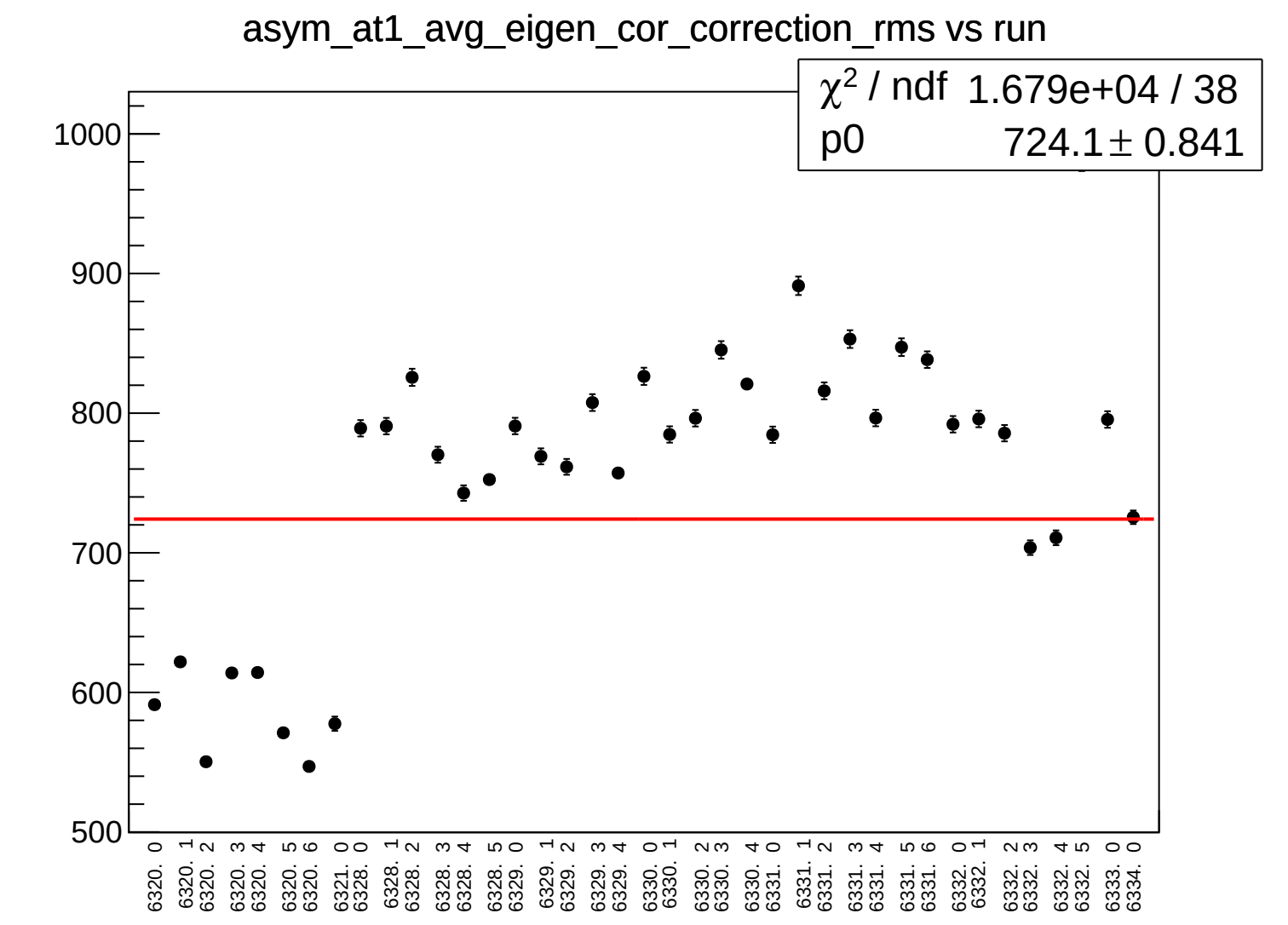
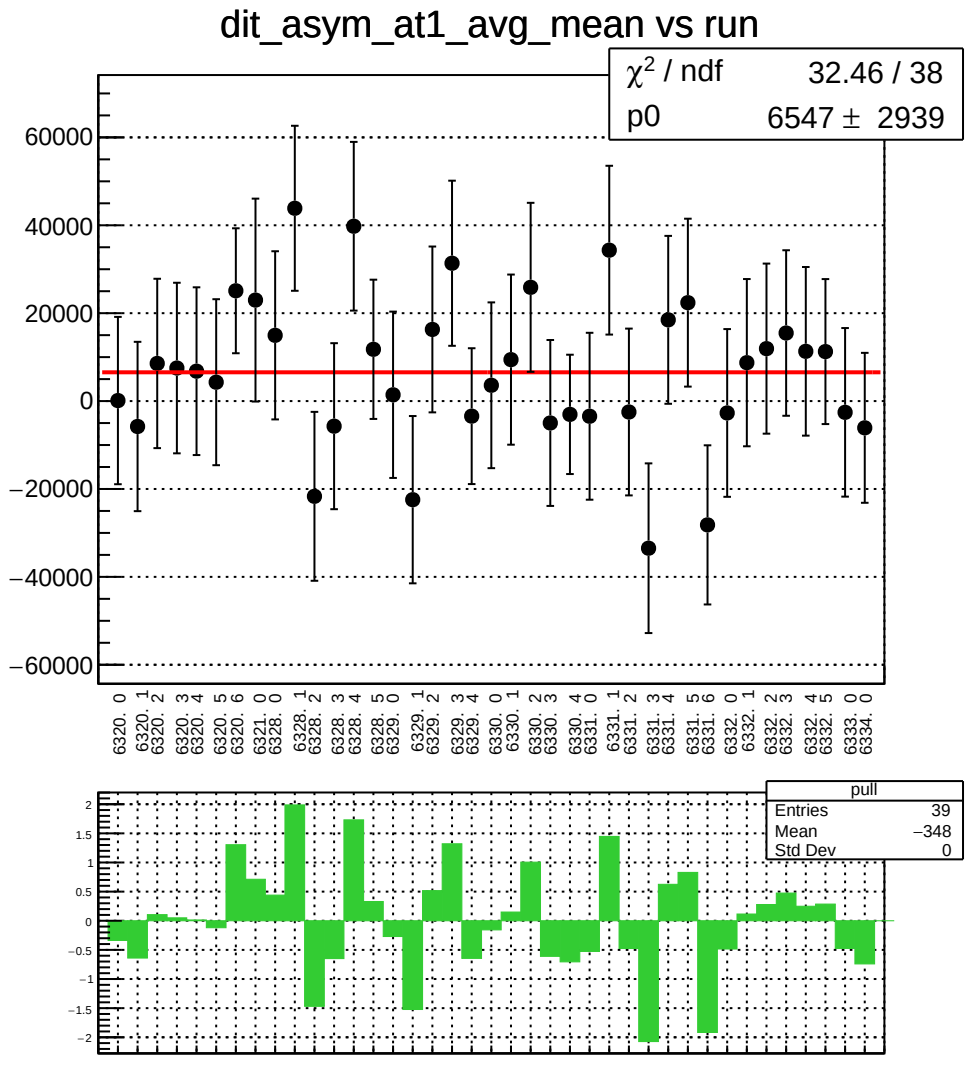
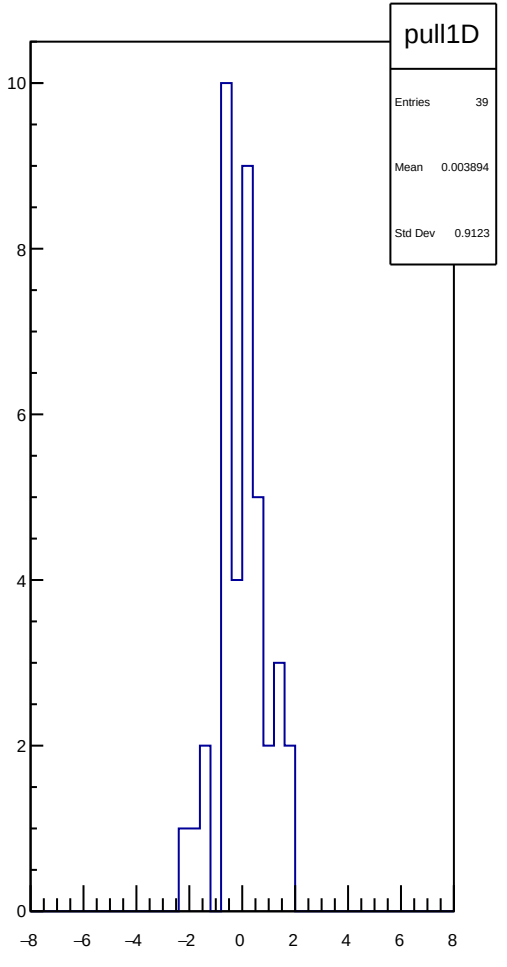
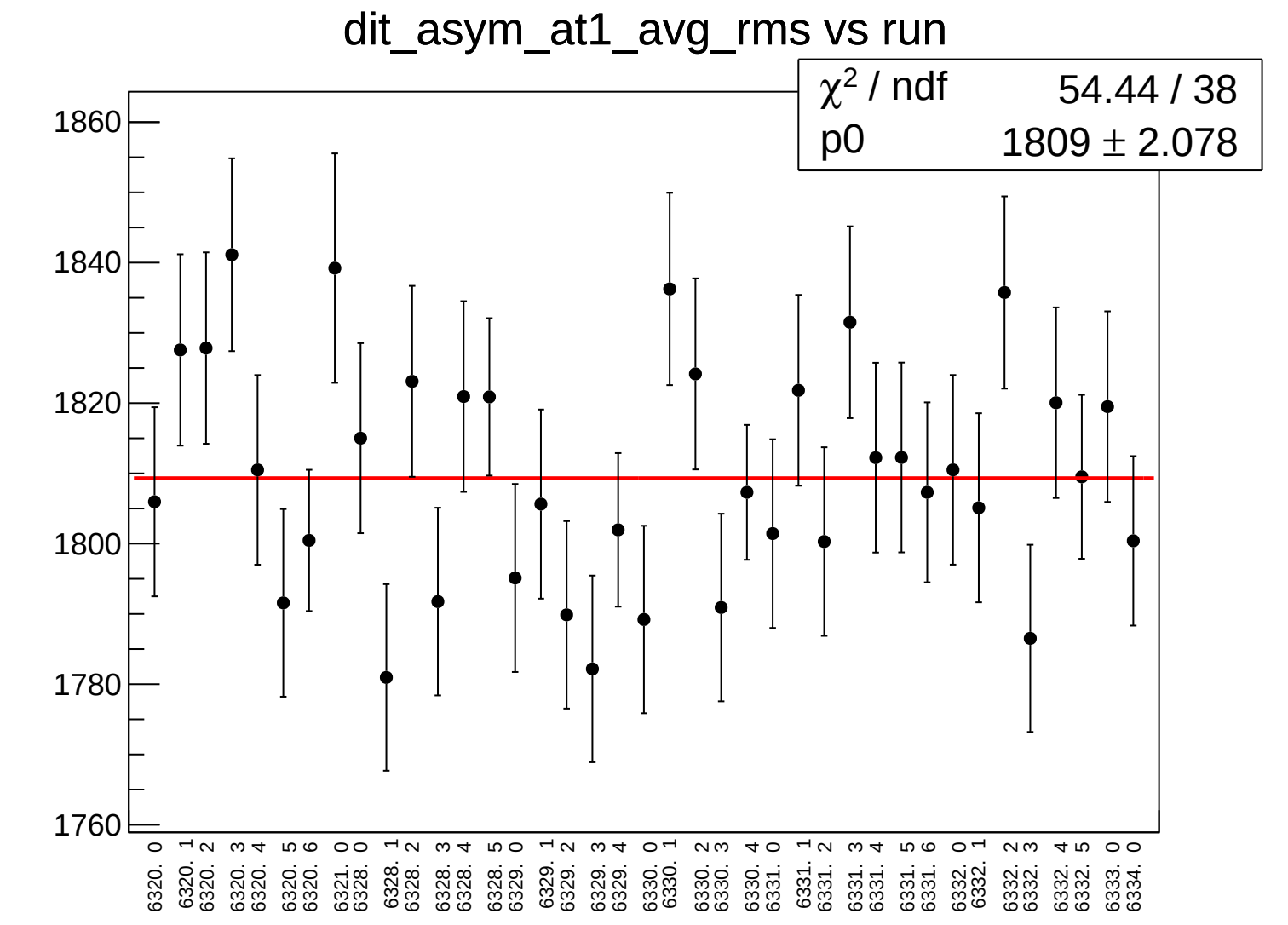
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.04
Std Dev 19.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

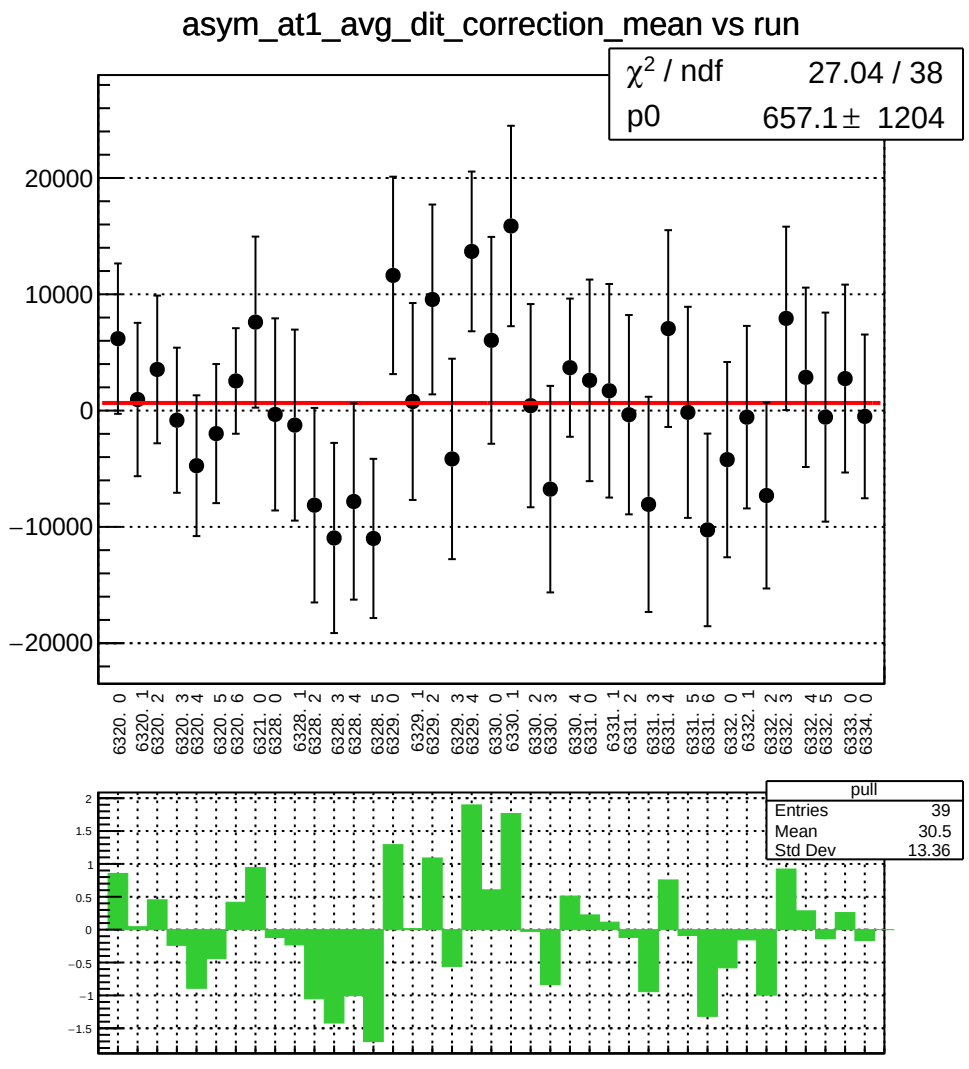

pull1D
Entries 39
Mean −0.02386
Std Dev 0.8334
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

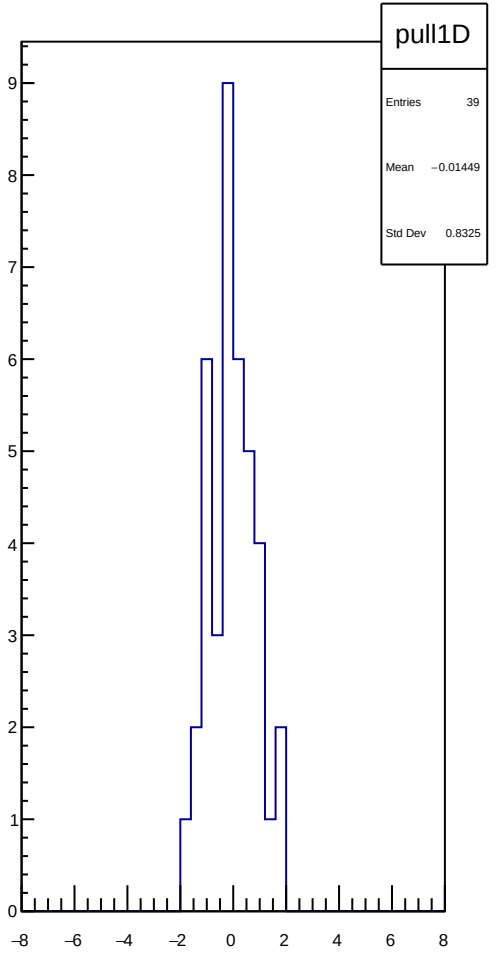

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.679e+04 / 38
p0 724.1 ± 0.841
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

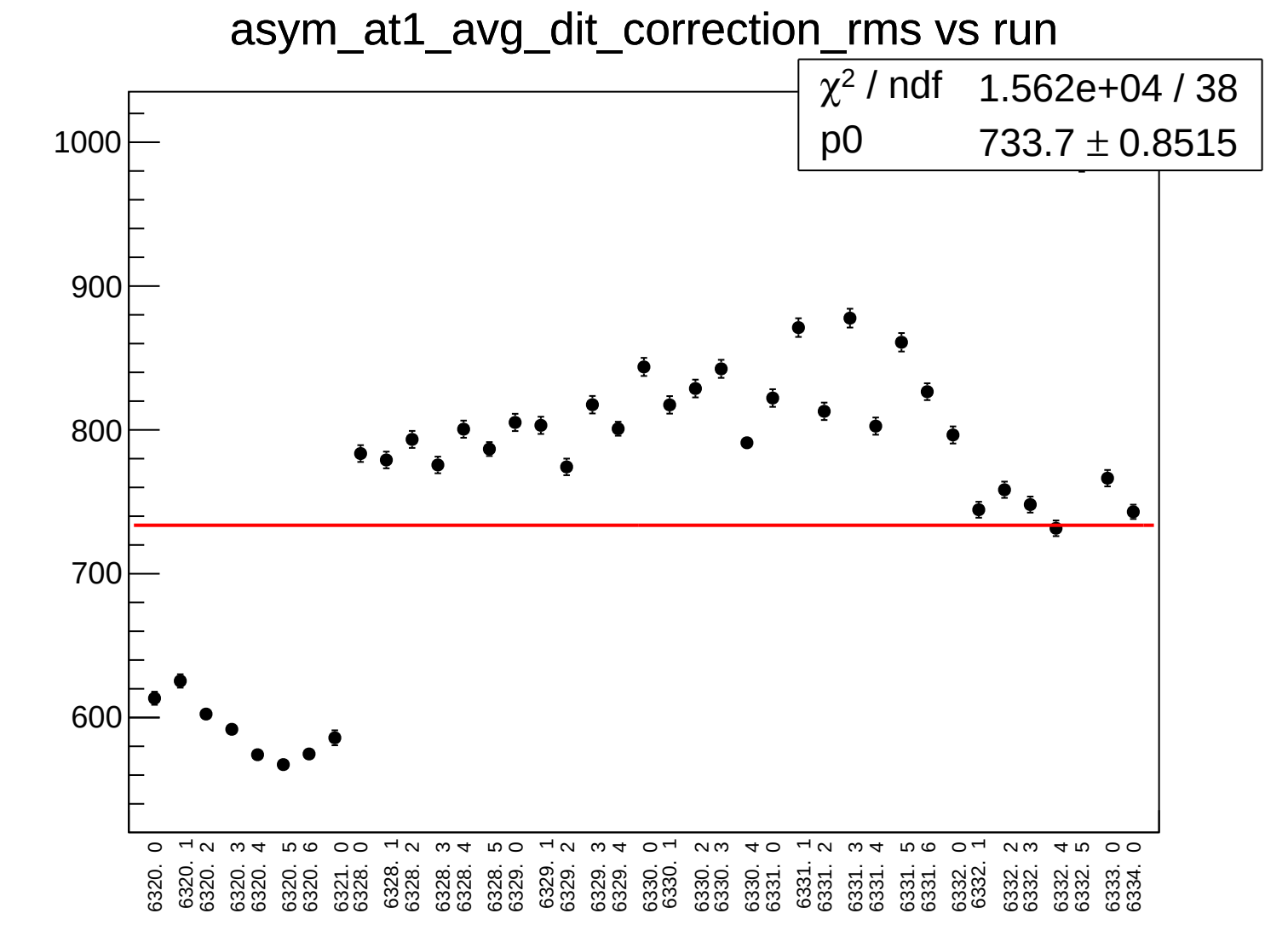

dit_asym_at1_avg_mean vs run
χ² / ndf 32.46 / 38
p0 6547 ± 2939
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −348
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

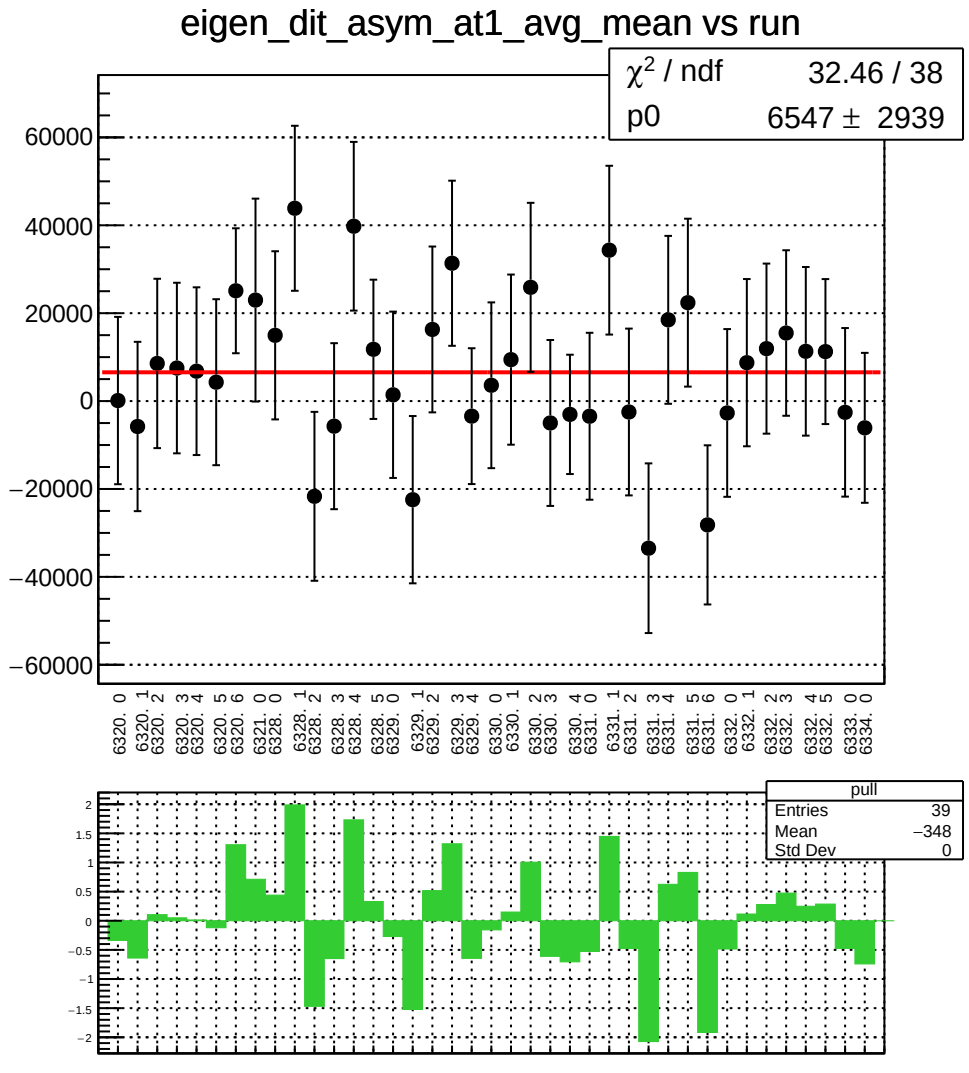

pull1D
Entries 39
Mean 0.003894
Std Dev 0.9123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

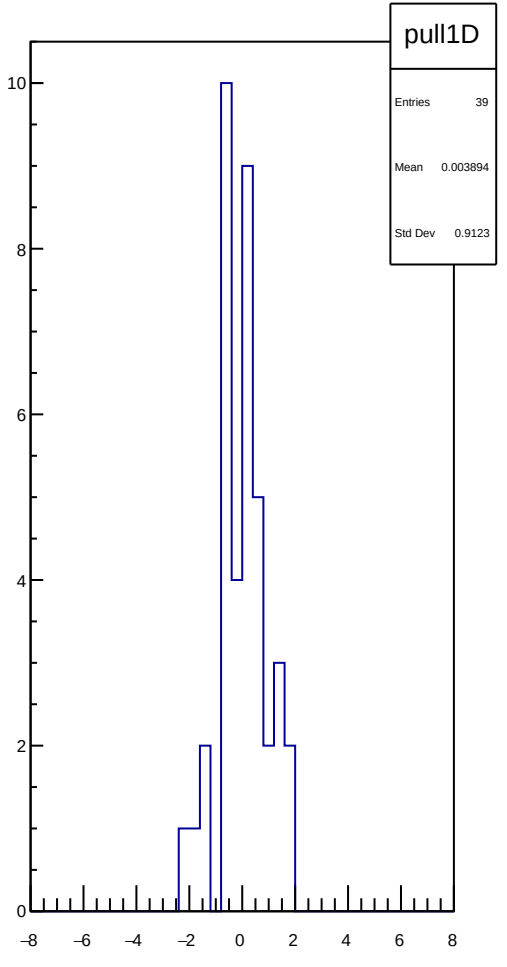

dit_asym_at1_avg_rms vs run
χ² / ndf 54.44 / 38
p0 1809 ± 2.078
1860
1840
1820
1800
1780
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

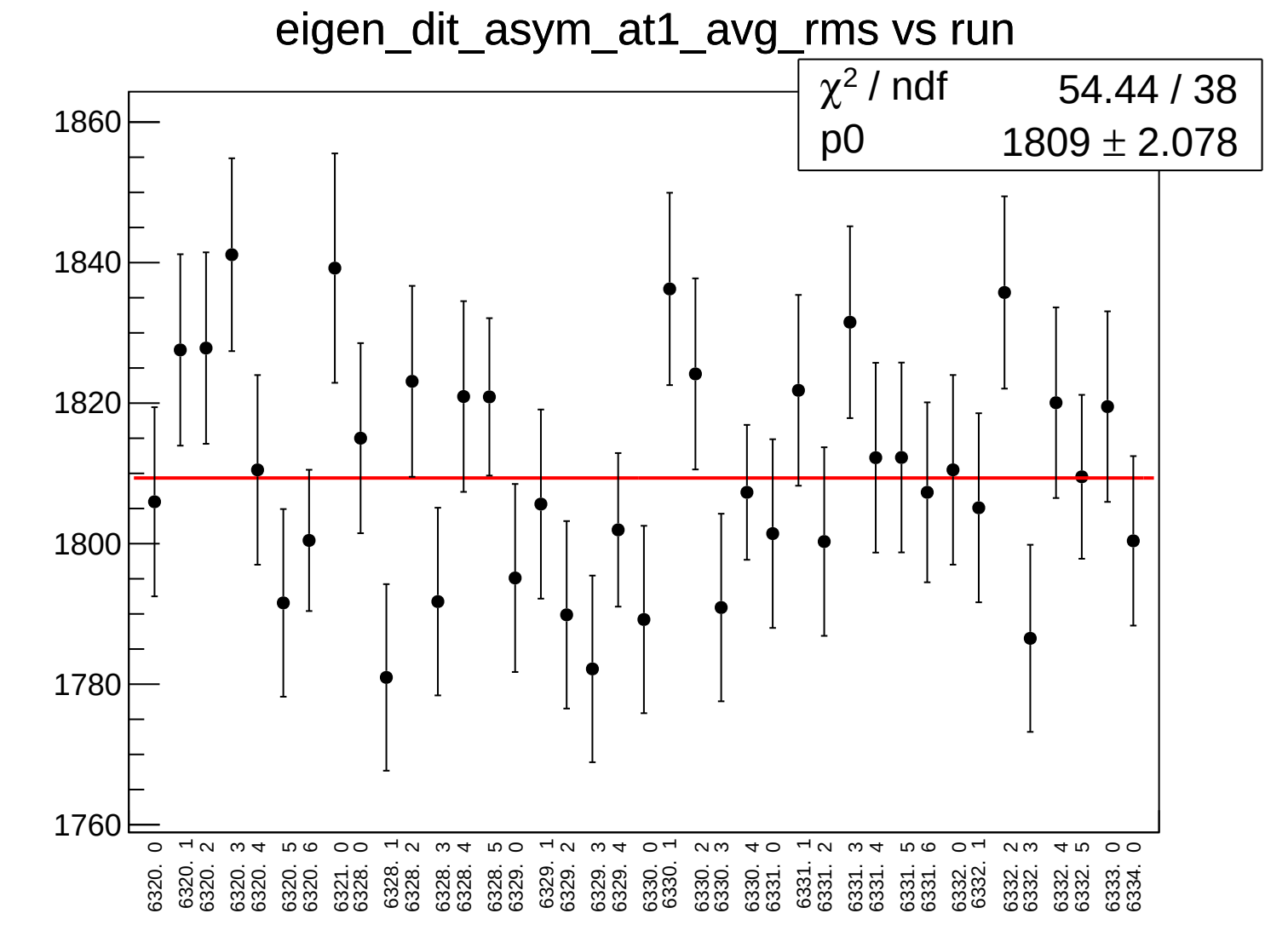

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 27.04 / 38
p0 657.1 ± 1204
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.5
Std Dev 13.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

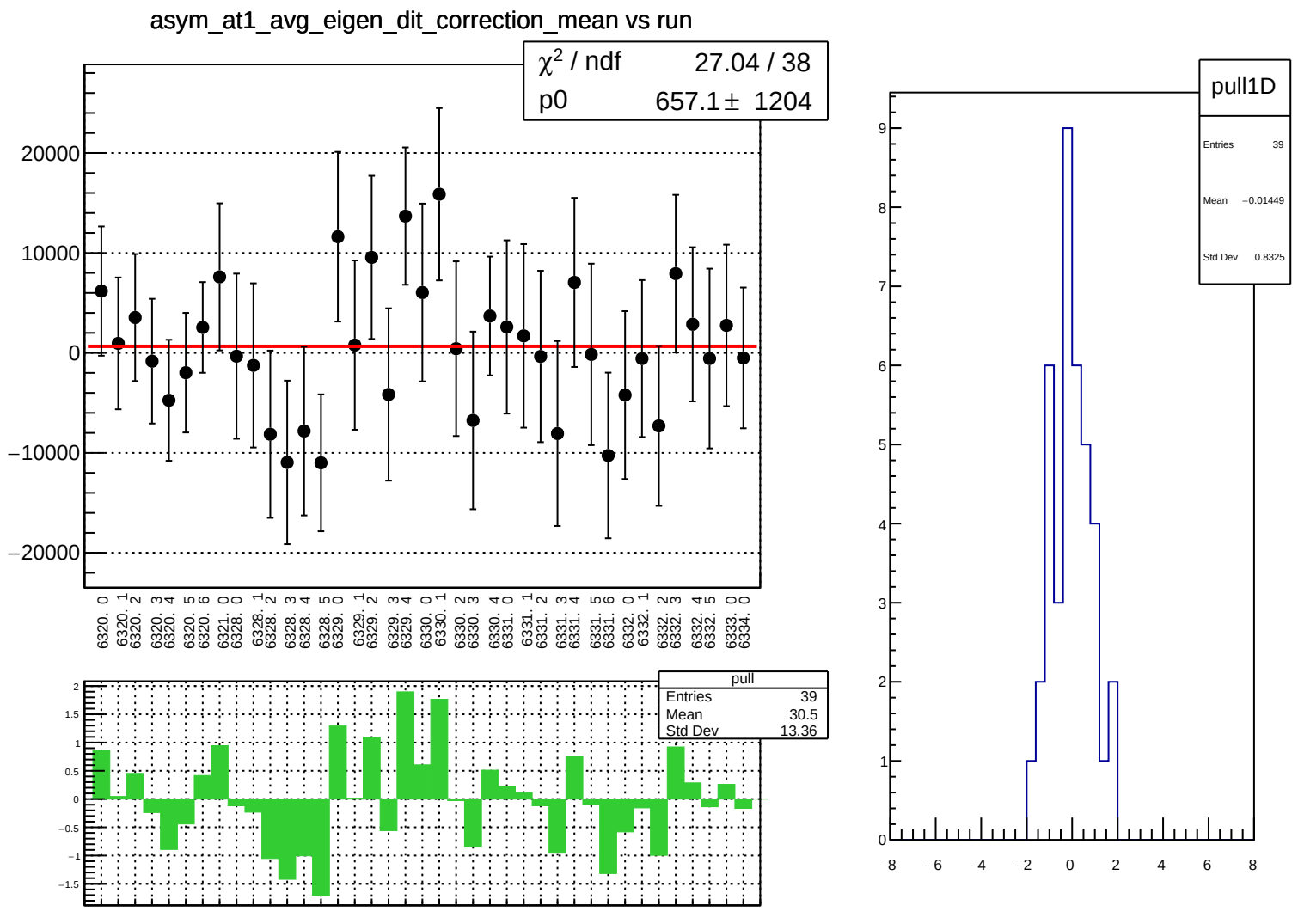

pull1D
Entries 39
Mean −0.01449
Std Dev 0.8325
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

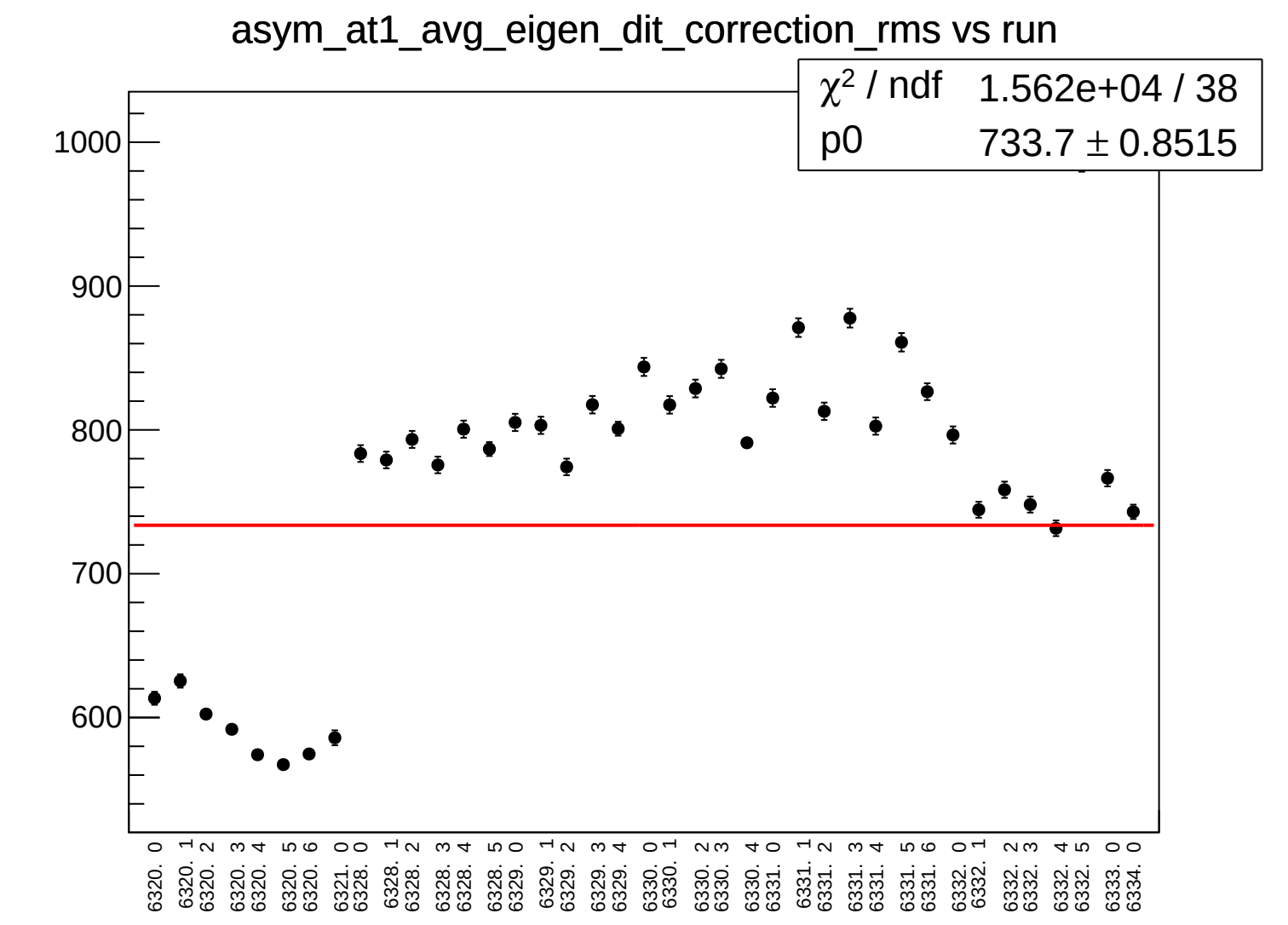

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.562e+04 / 38
p0 733.7 ± 0.8515
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

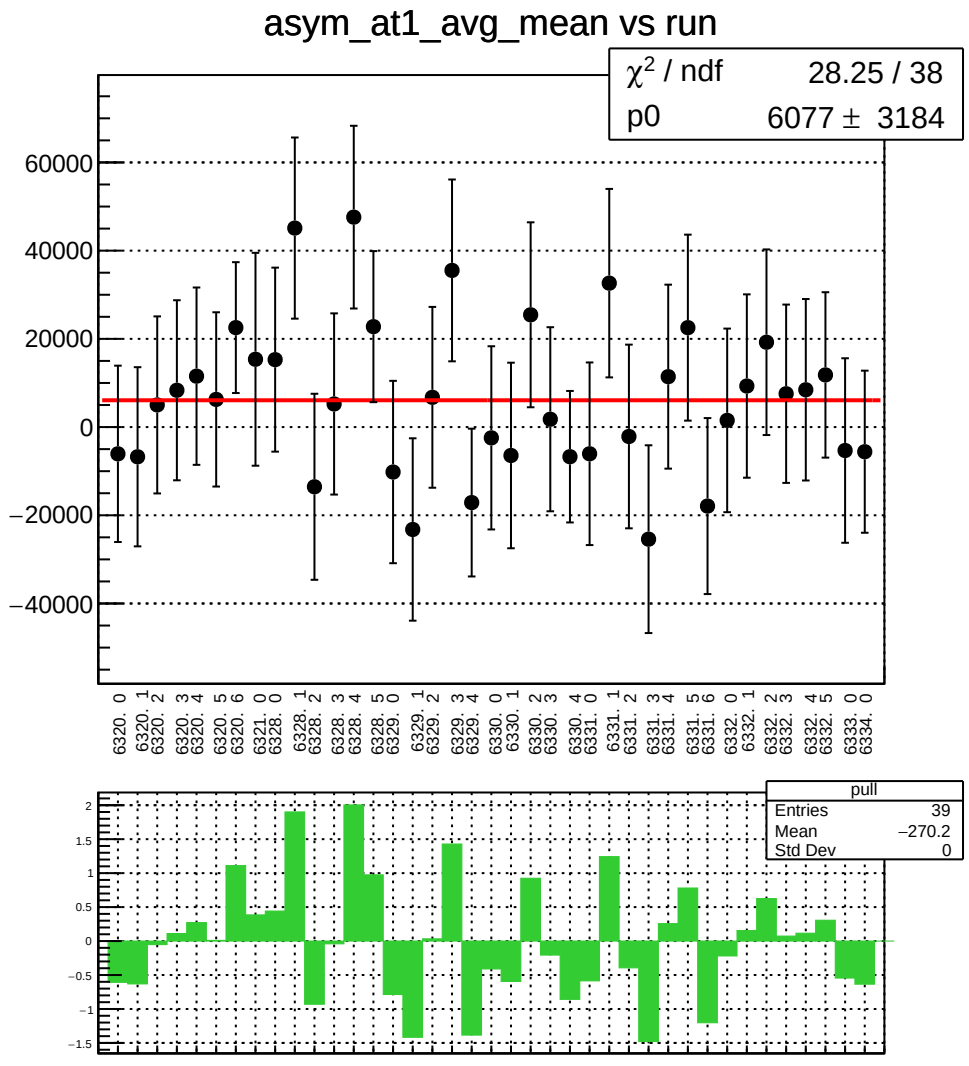

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 32.46 / 38
p0 6547 ± 2939
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −348
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

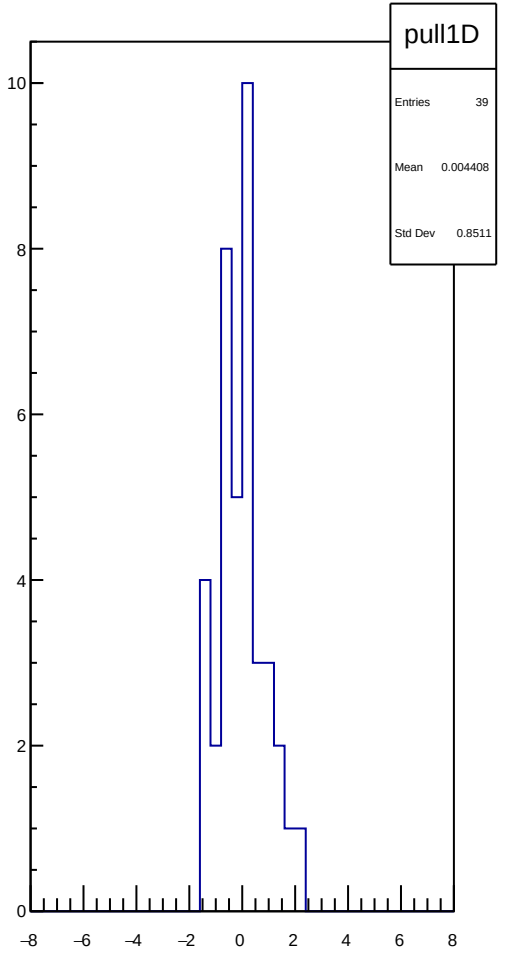

pull1D
Entries 39
Mean 0.003894
Std Dev 0.9123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

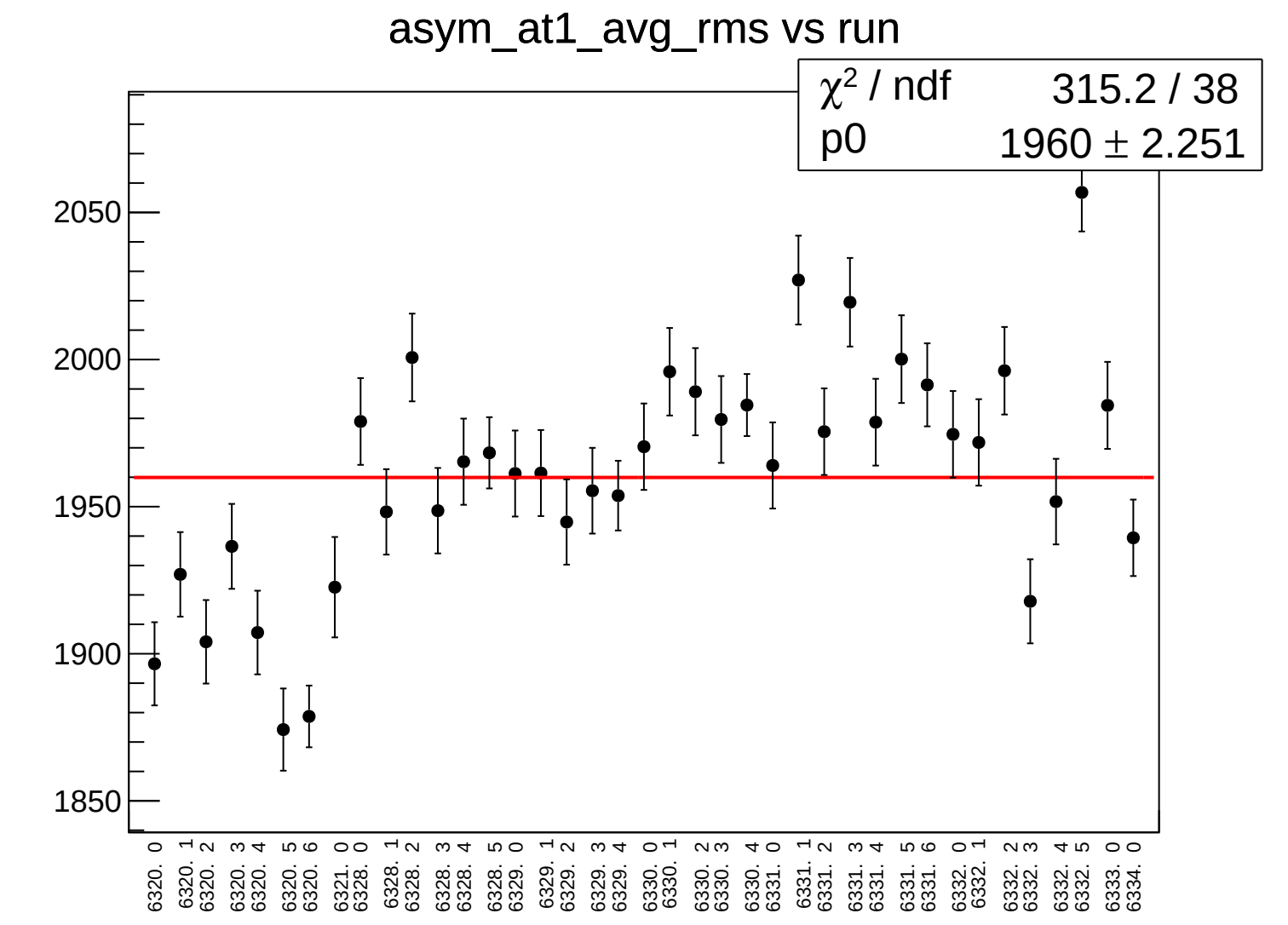

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 54.44 / 38
p0 1809 ± 2.078
1860
1840
1820
1800
1780
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

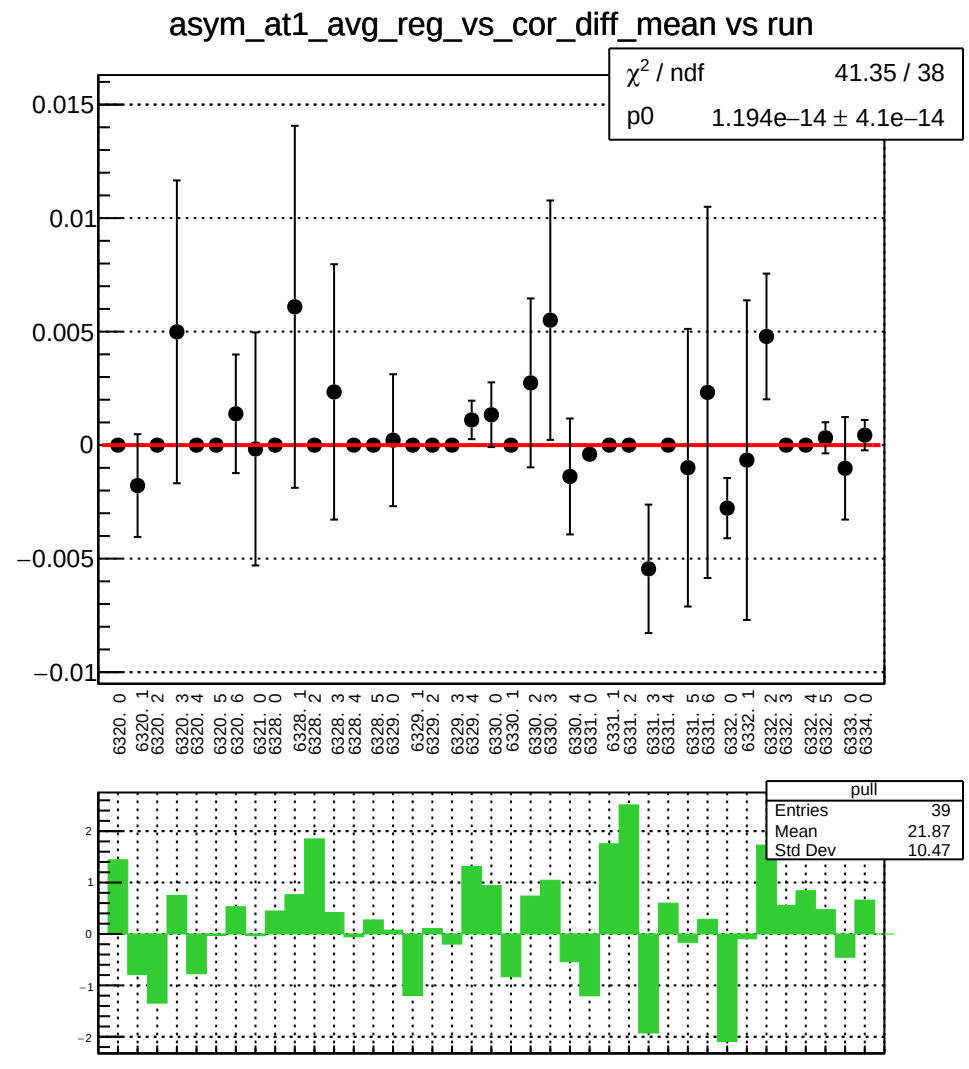

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.04 / 38
p0 657.1 ± 1204
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.5
Std Dev 13.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01449
Std Dev 0.8325
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

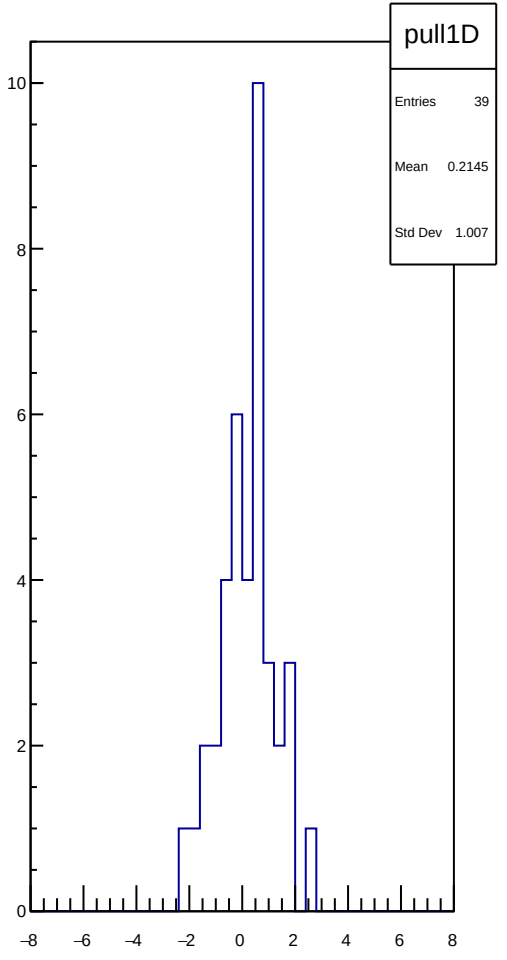

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.562e+04 / 38
p0 733.7 ± 0.8515
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

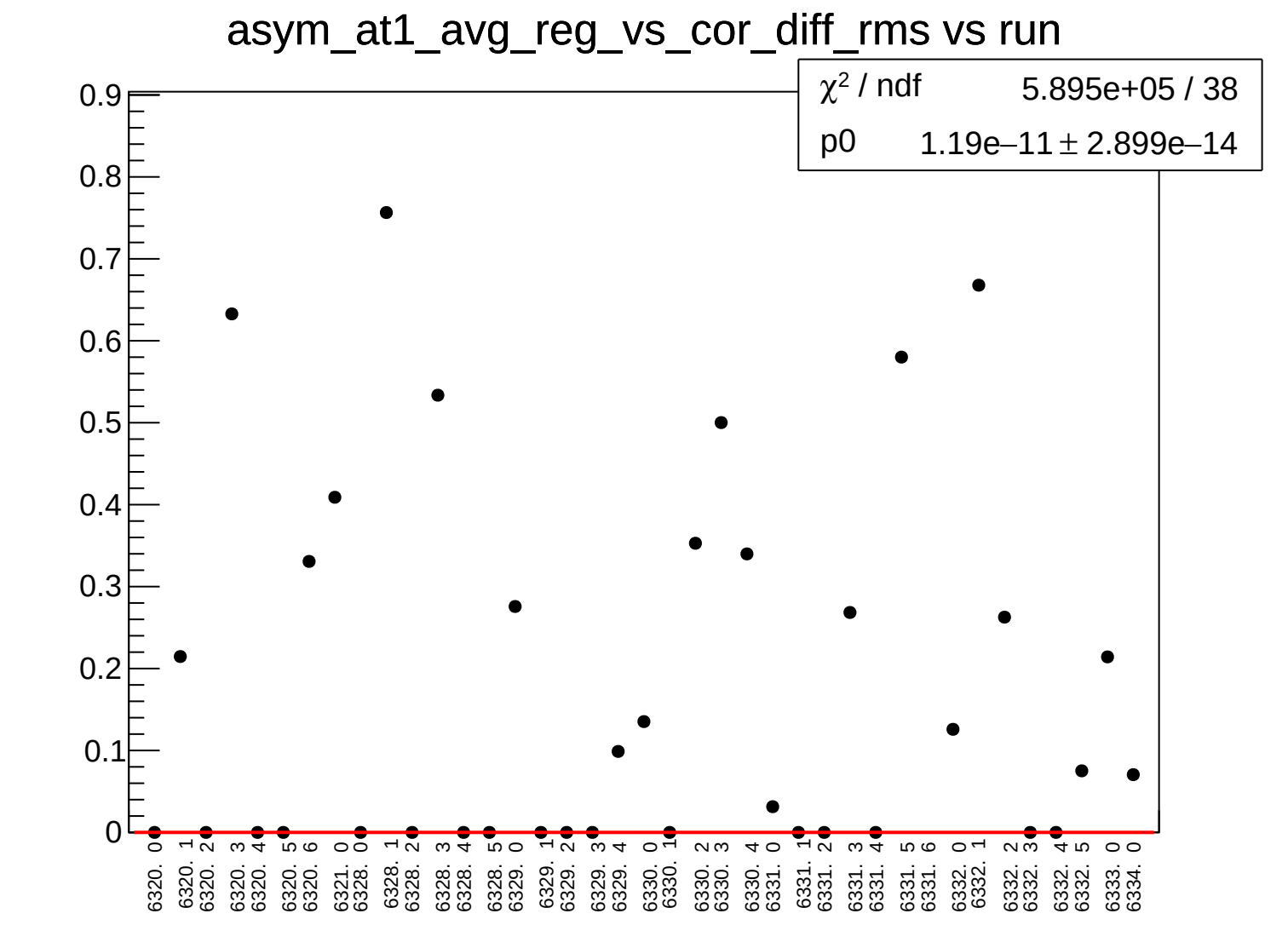

asym_at1_avg_mean vs run
χ² / ndf 28.25 / 38
p0 6077 ± 3184
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −270.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

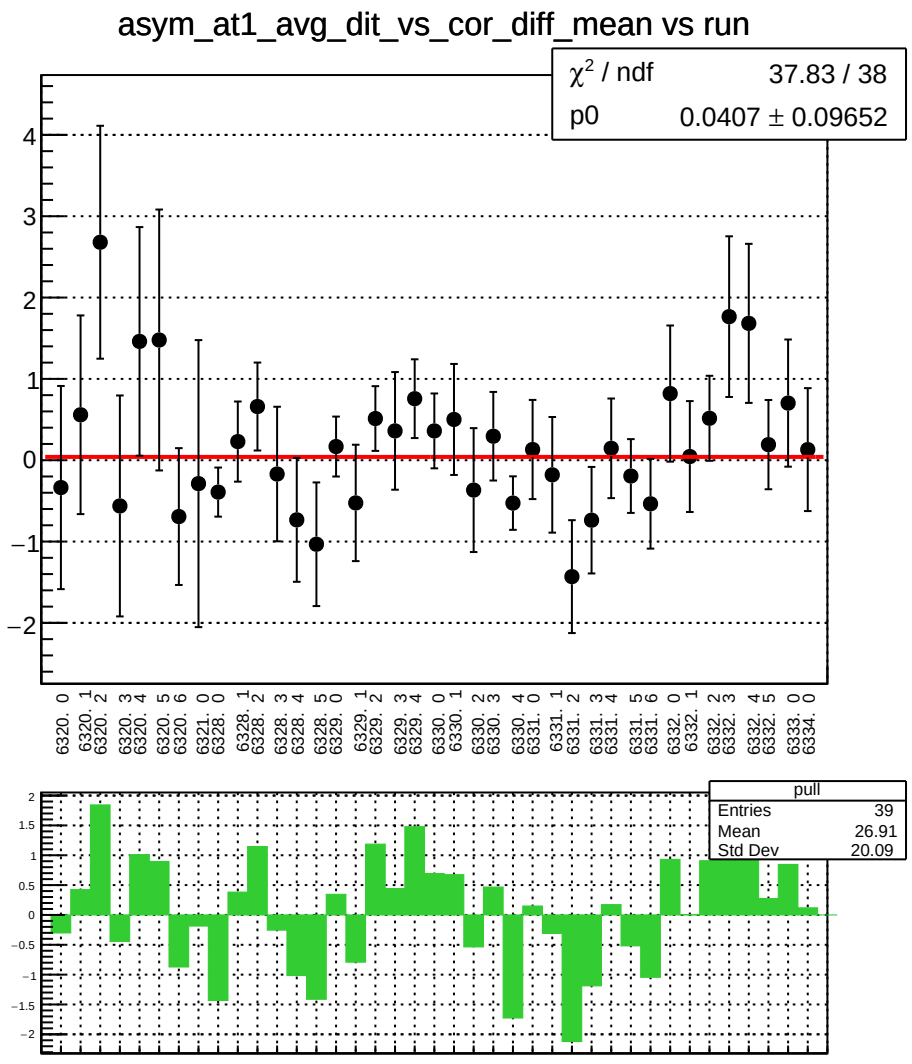

pull1D
Entries 39
Mean 0.004408
Std Dev 0.8511
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

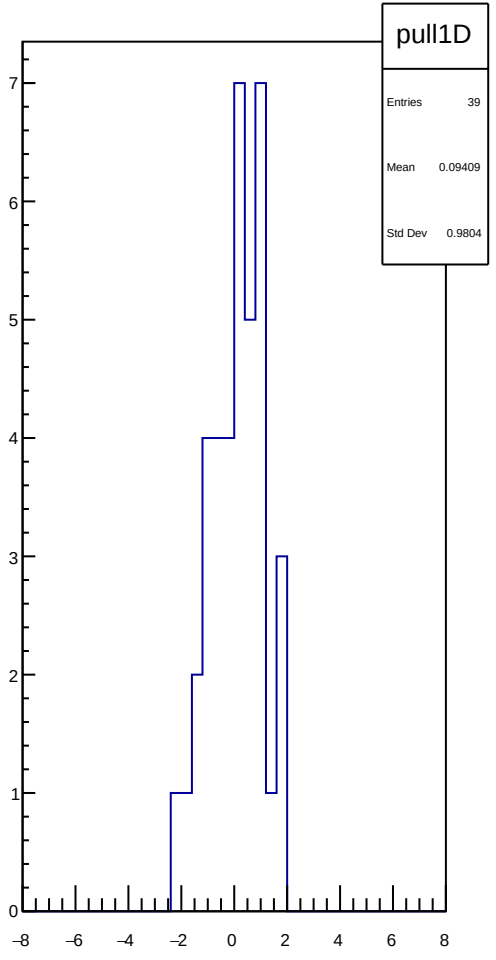

asym_at1_avg_rms vs run
χ² / ndf 315.2 / 38
p0 1960 ± 2.251
2050
2000
1950
1900
1850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

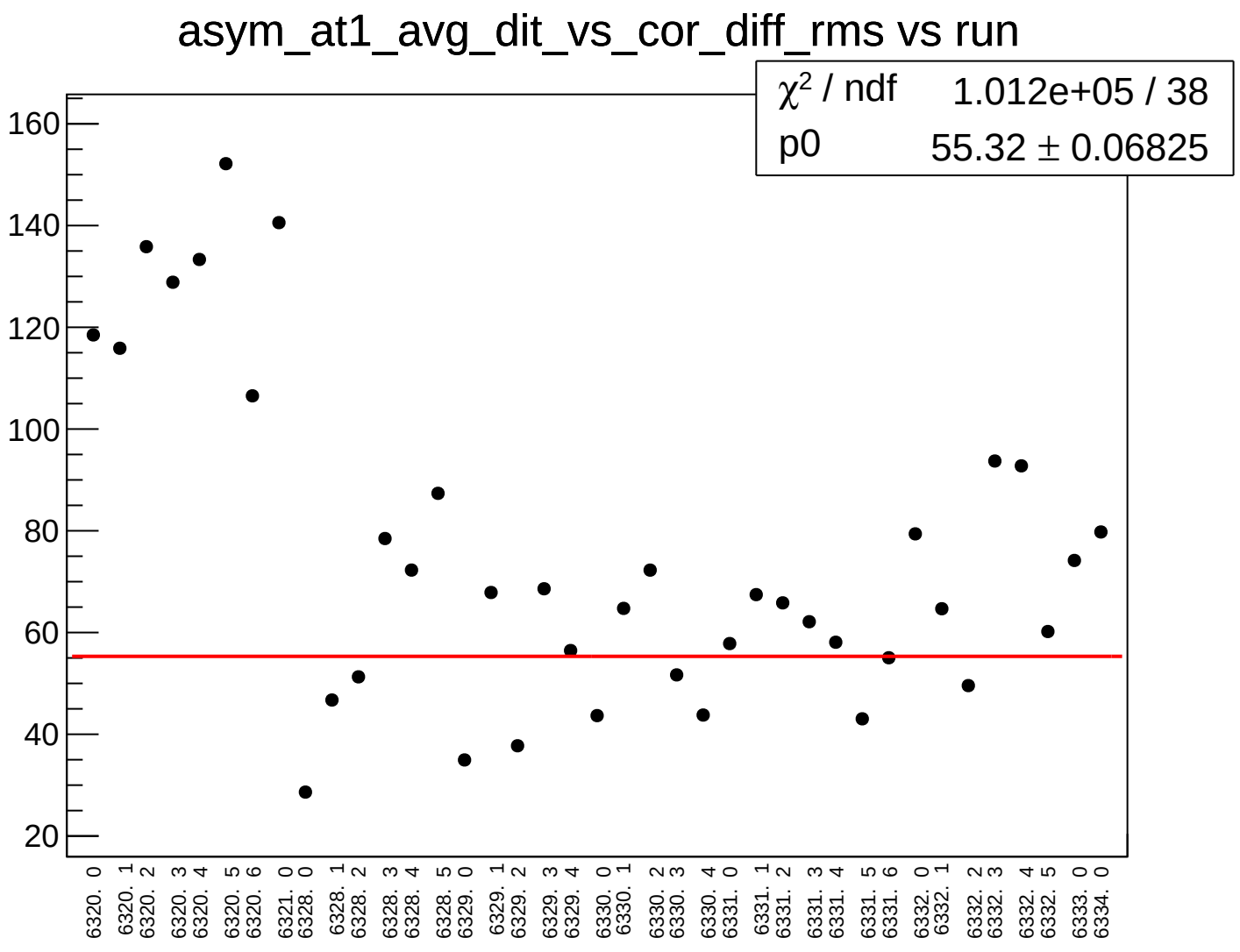

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.35 / 38
p0 1.194e−14 ± 4.1e−14
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.87
Std Dev 10.47
2
1
0
−1
−2

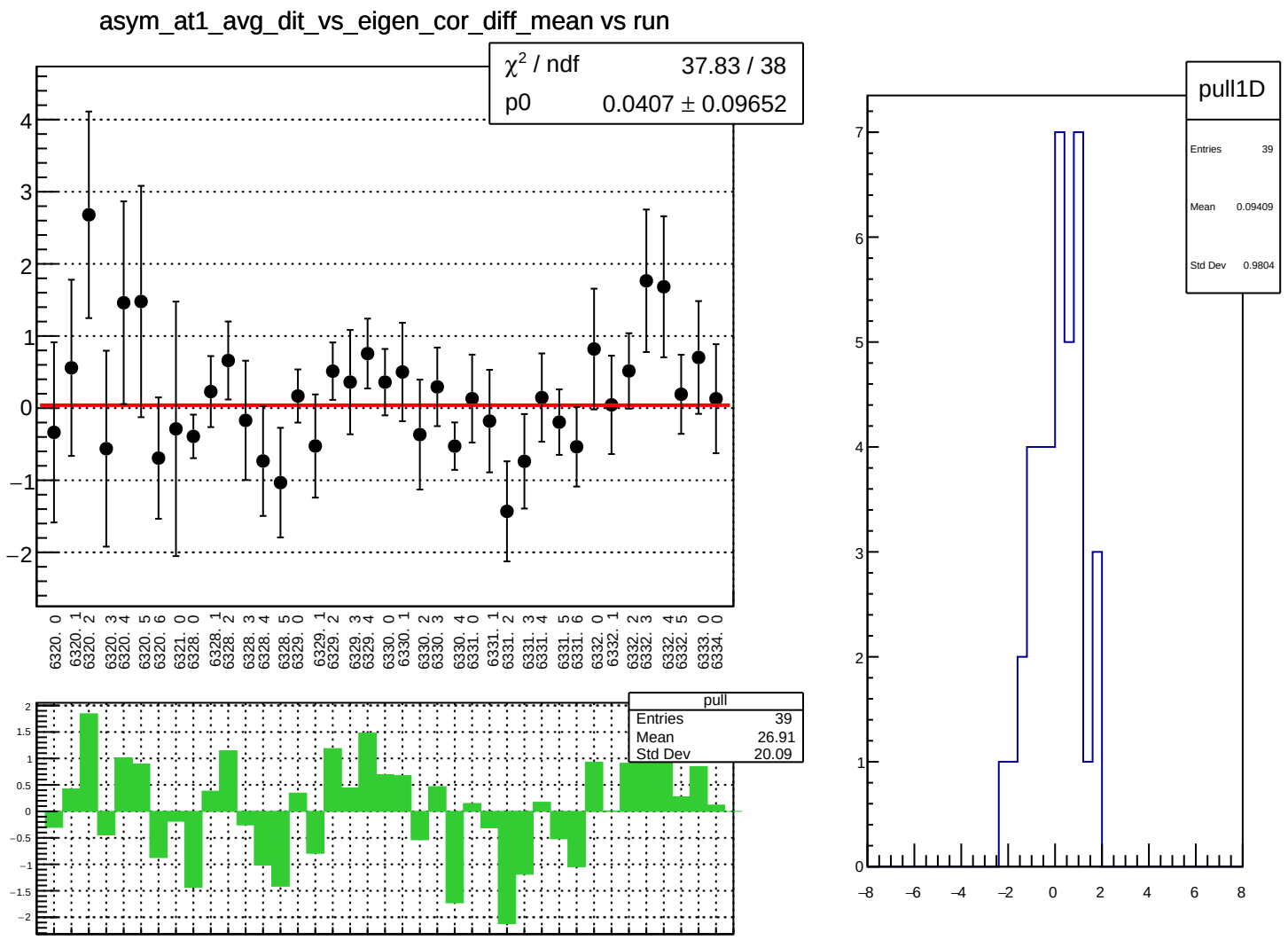

pull1D
Entries 39
Mean 0.2145
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

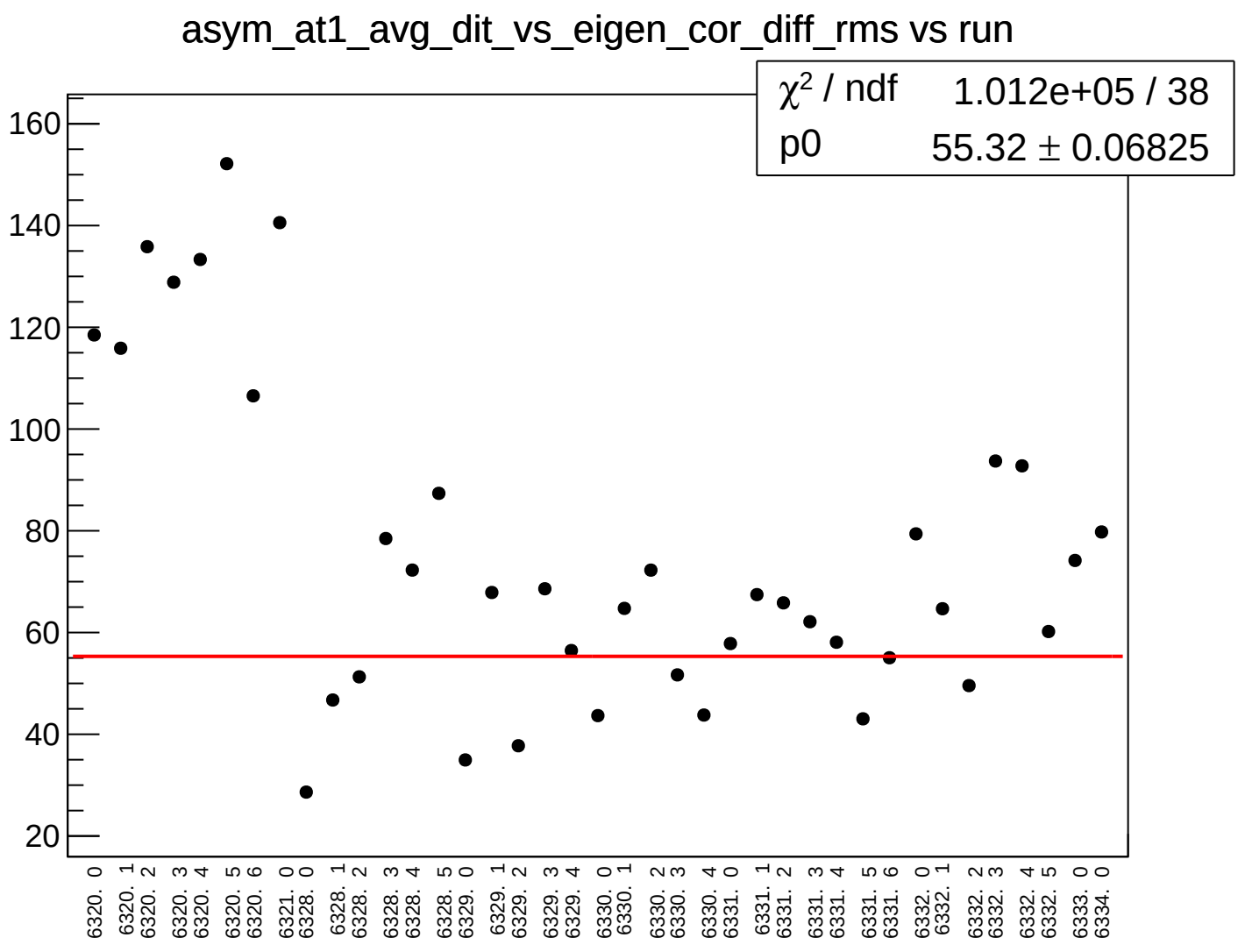

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.895e+05 / 38
p0 1.19e−11 ± 2.899e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

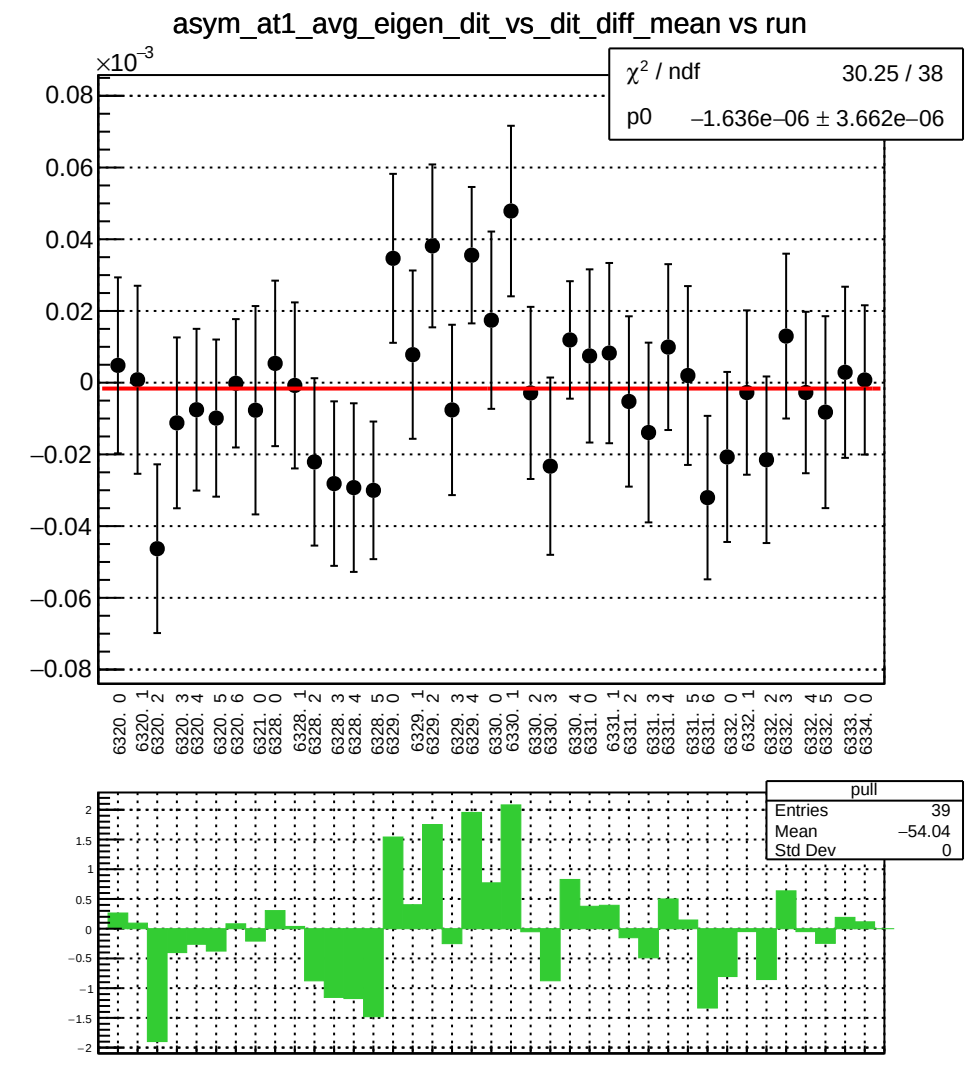

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.83 / 38
p0 0.0407 ± 0.09652
pull
Entries 39
Mean 26.91
Std Dev 20.09

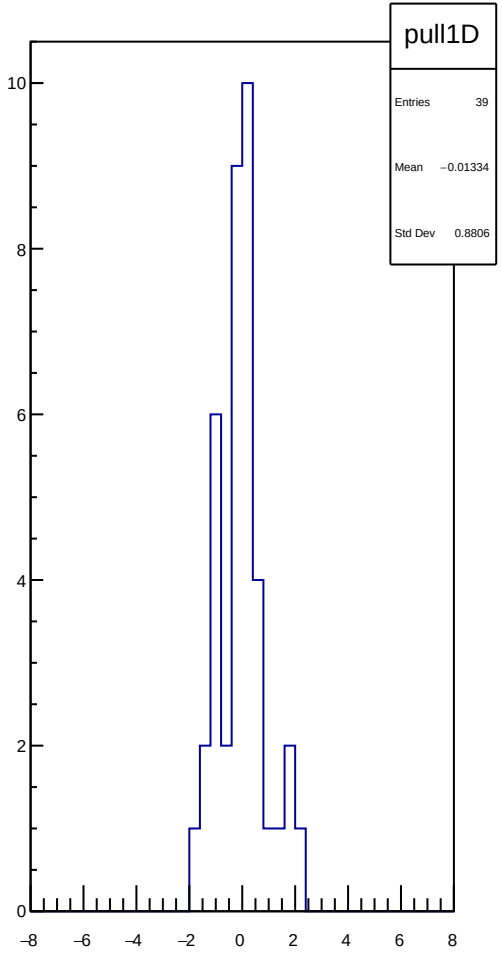

pull1D
Entries 39
Mean 0.09409
Std Dev 0.9804

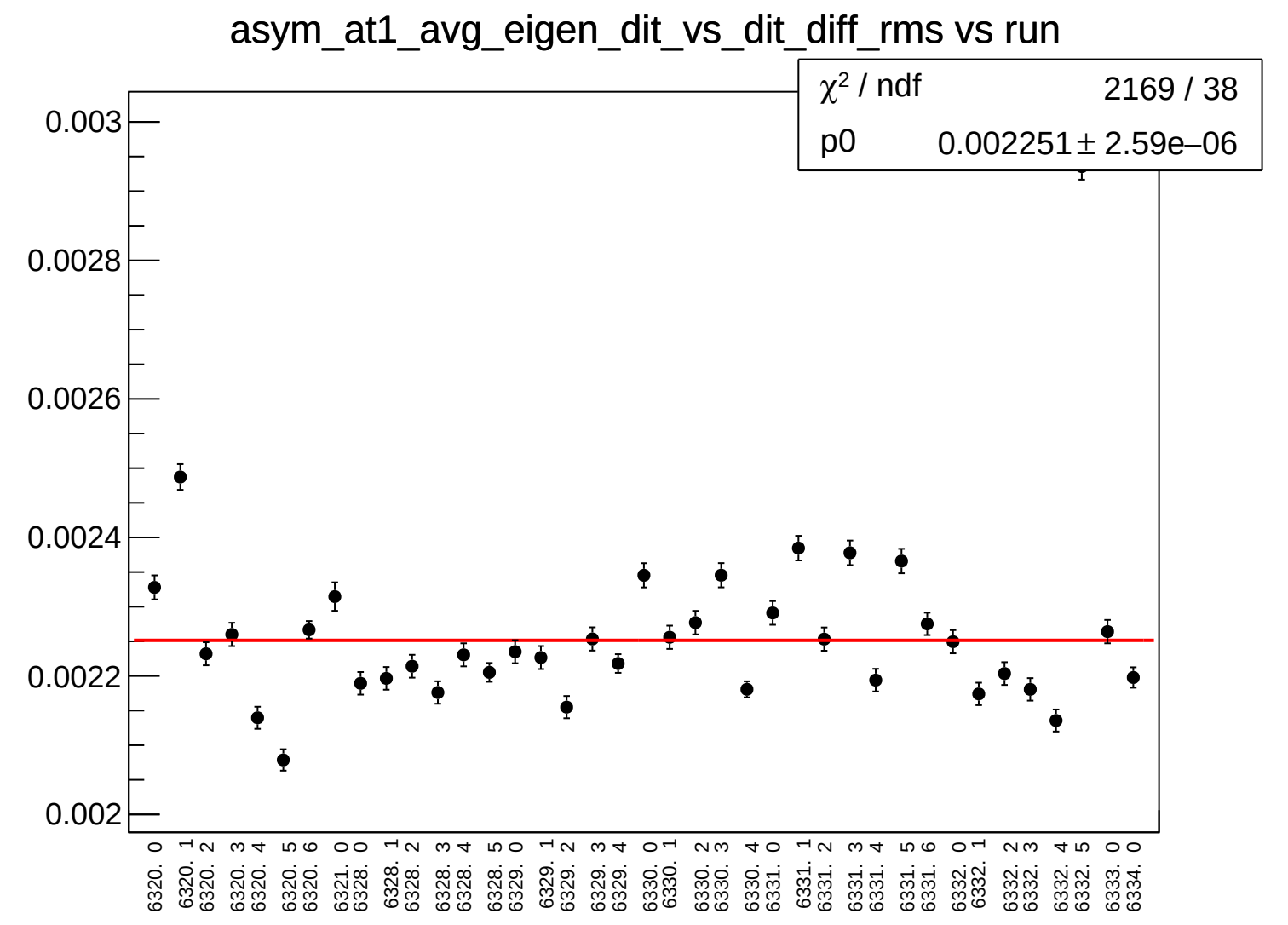

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 38
p0 55.32 ± 0.06825
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

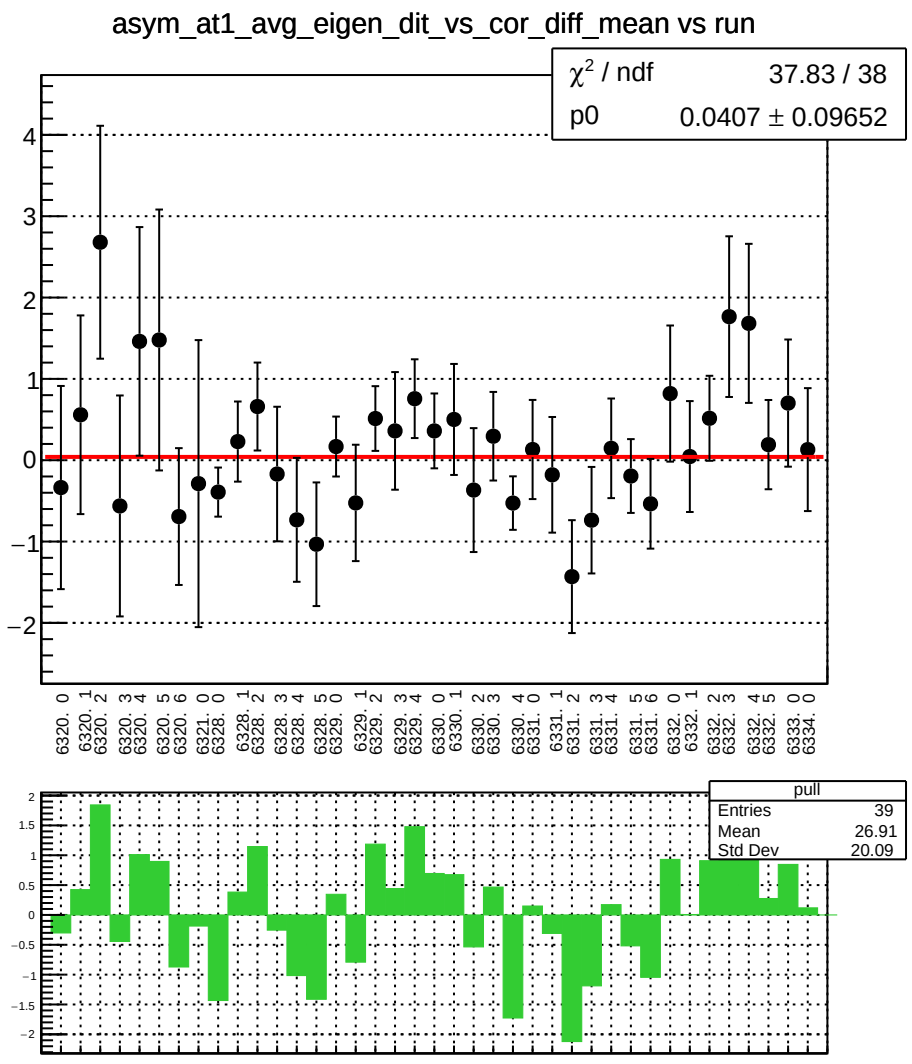

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.83 / 38
p0 0.0407 ± 0.09652
pull
Entries 39
Mean 26.91
Std Dev 20.09
pull1D
Entries 39
Mean 0.09409
Std Dev 0.9804

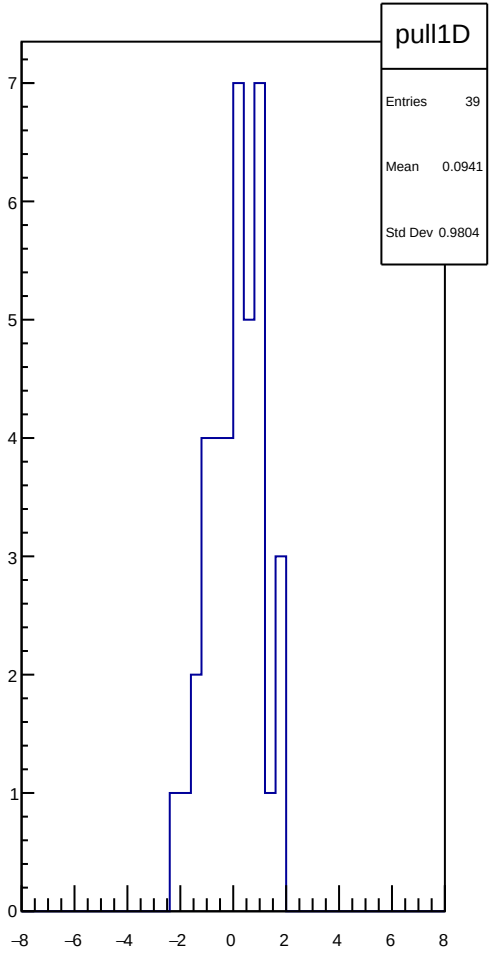

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 38
p0 55.32 ± 0.06825
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

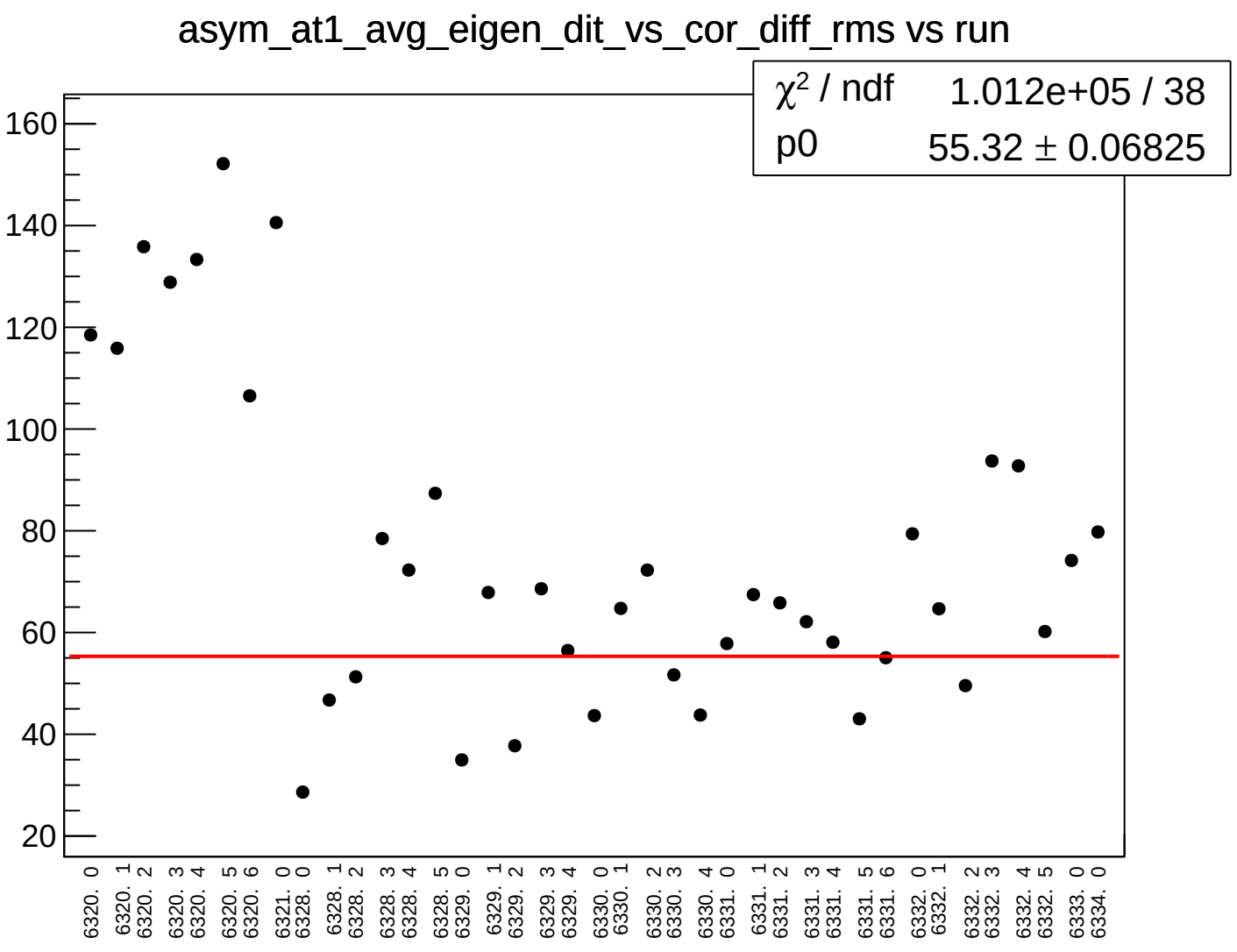

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.25 / 38
p0 −1.636e−06 ± 3.662e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −54.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

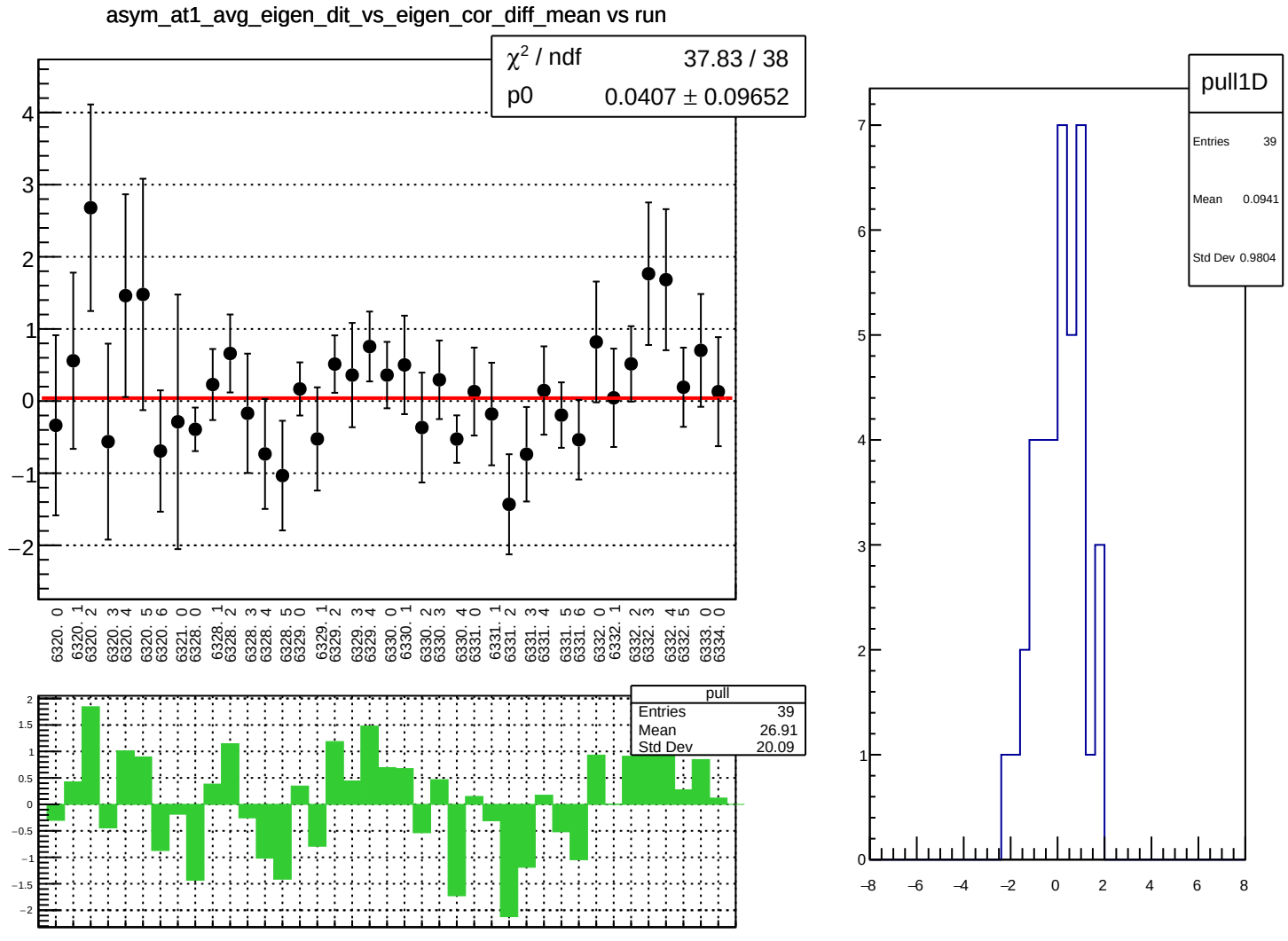

pull1D
Entries 39
Mean −0.01334
Std Dev 0.8806
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

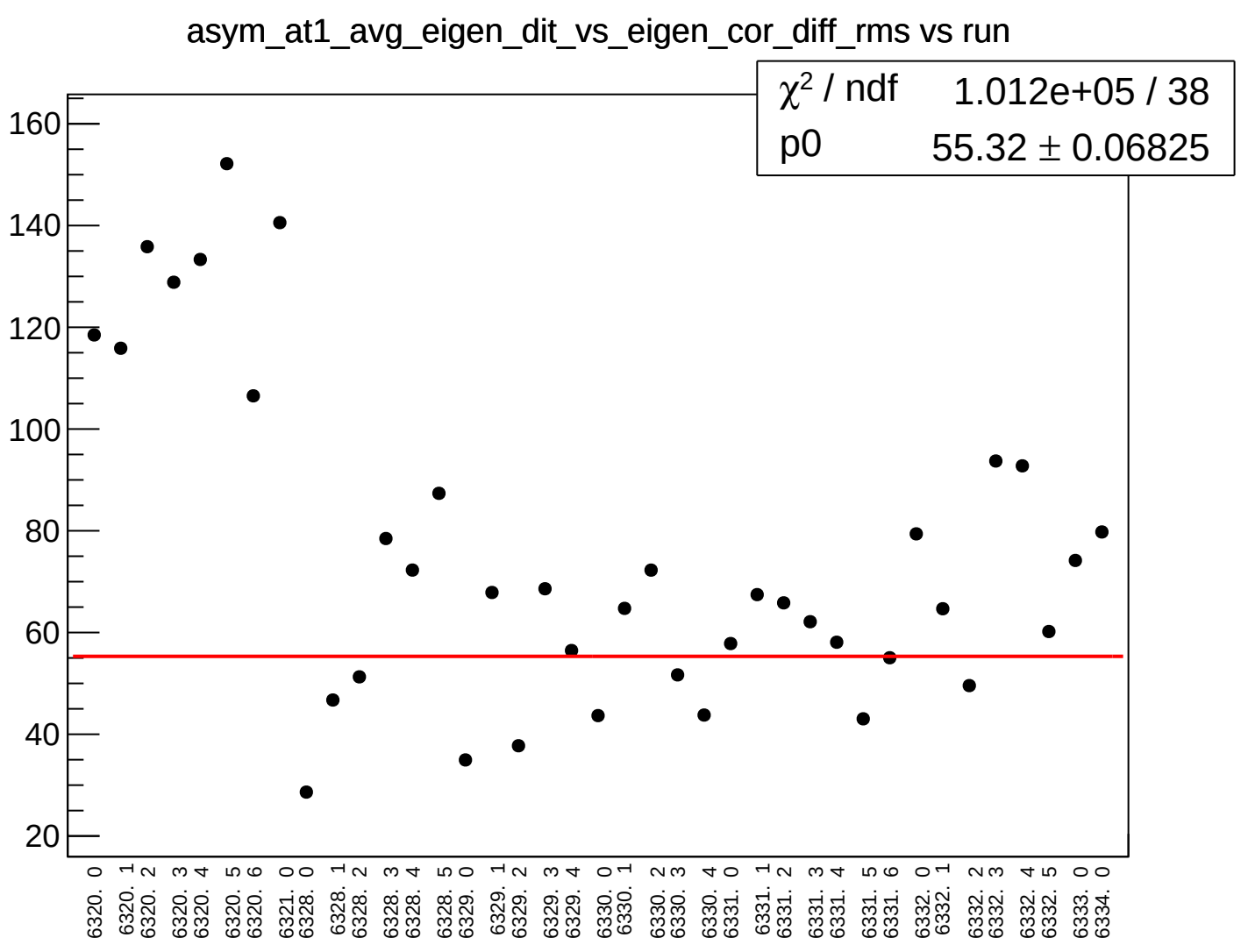

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2169 / 38
p0 0.002251 ± 2.59e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

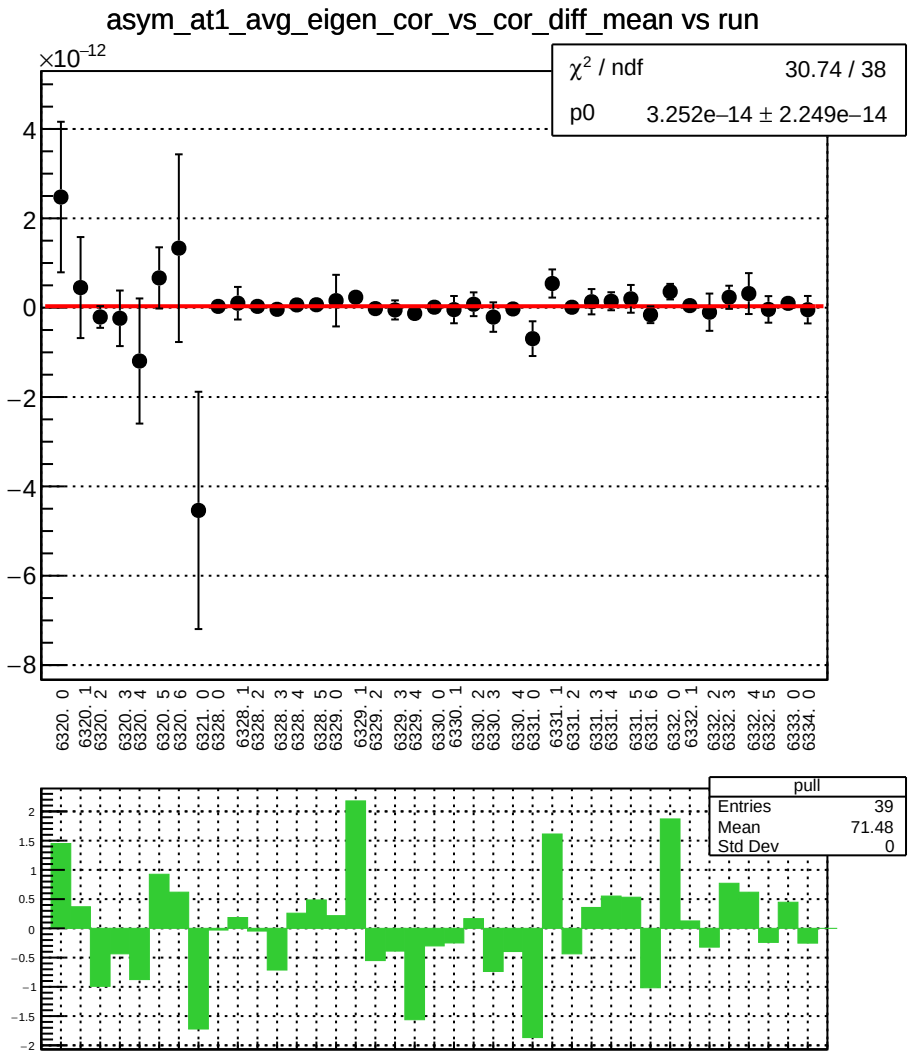

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.83 / 38
p0 0.0407 ± 0.09652
pull
Entries 39
Mean 26.91
Std Dev 20.09

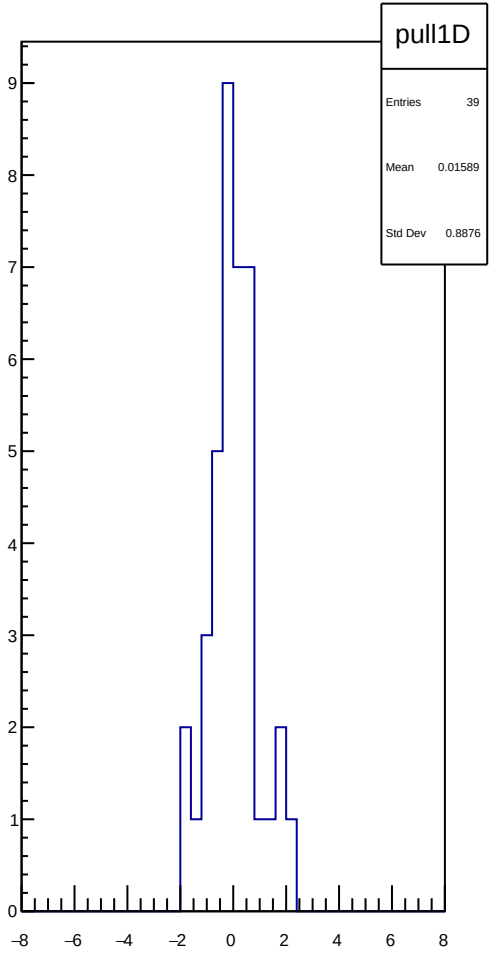

pull1D
Entries 39
Mean 0.0941
Std Dev 0.9804

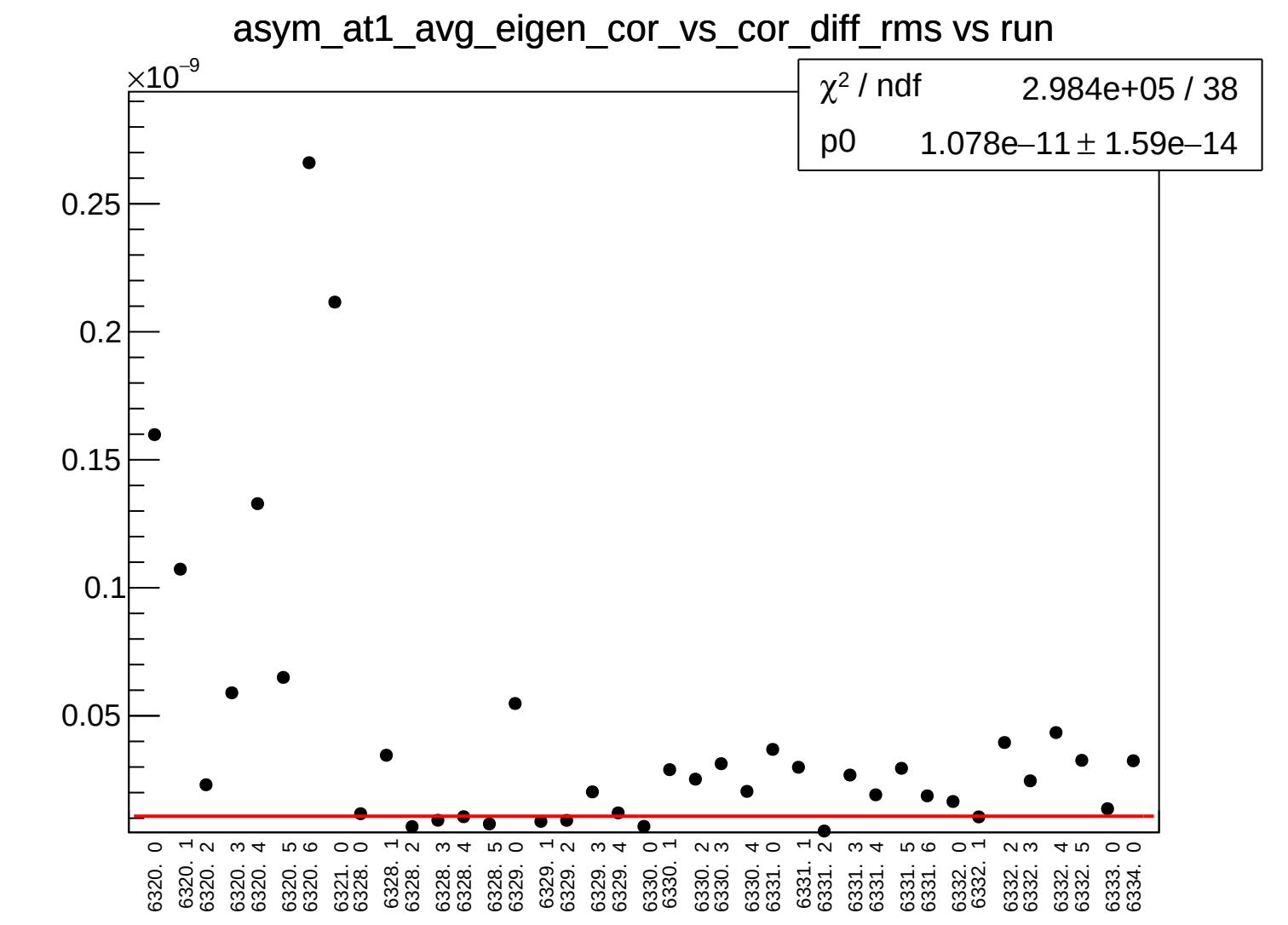

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 38
p0 55.32 ± 0.06825
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

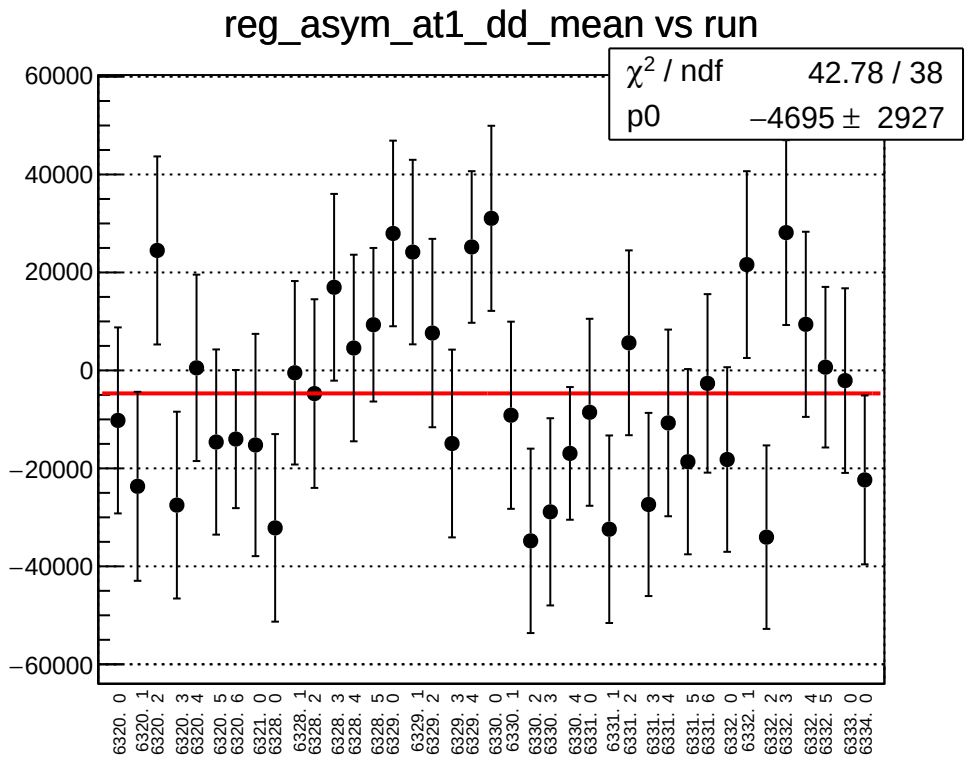

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.83 / 38
p0 0.0407 ± 0.09652
pull
Entries 39
Mean 26.91
Std Dev 20.09
pull1D
Entries 39
Mean 0.0941
Std Dev 0.9804

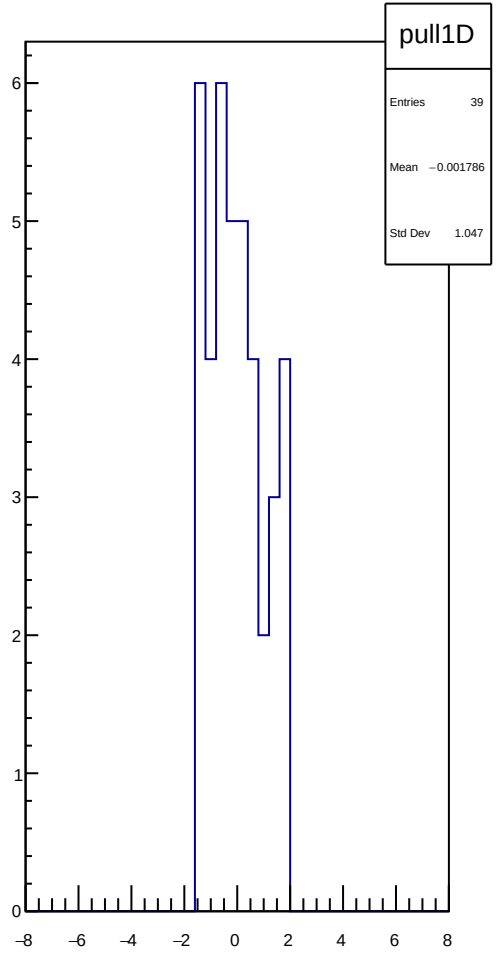

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 38
p0 55.32 ± 0.06825
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

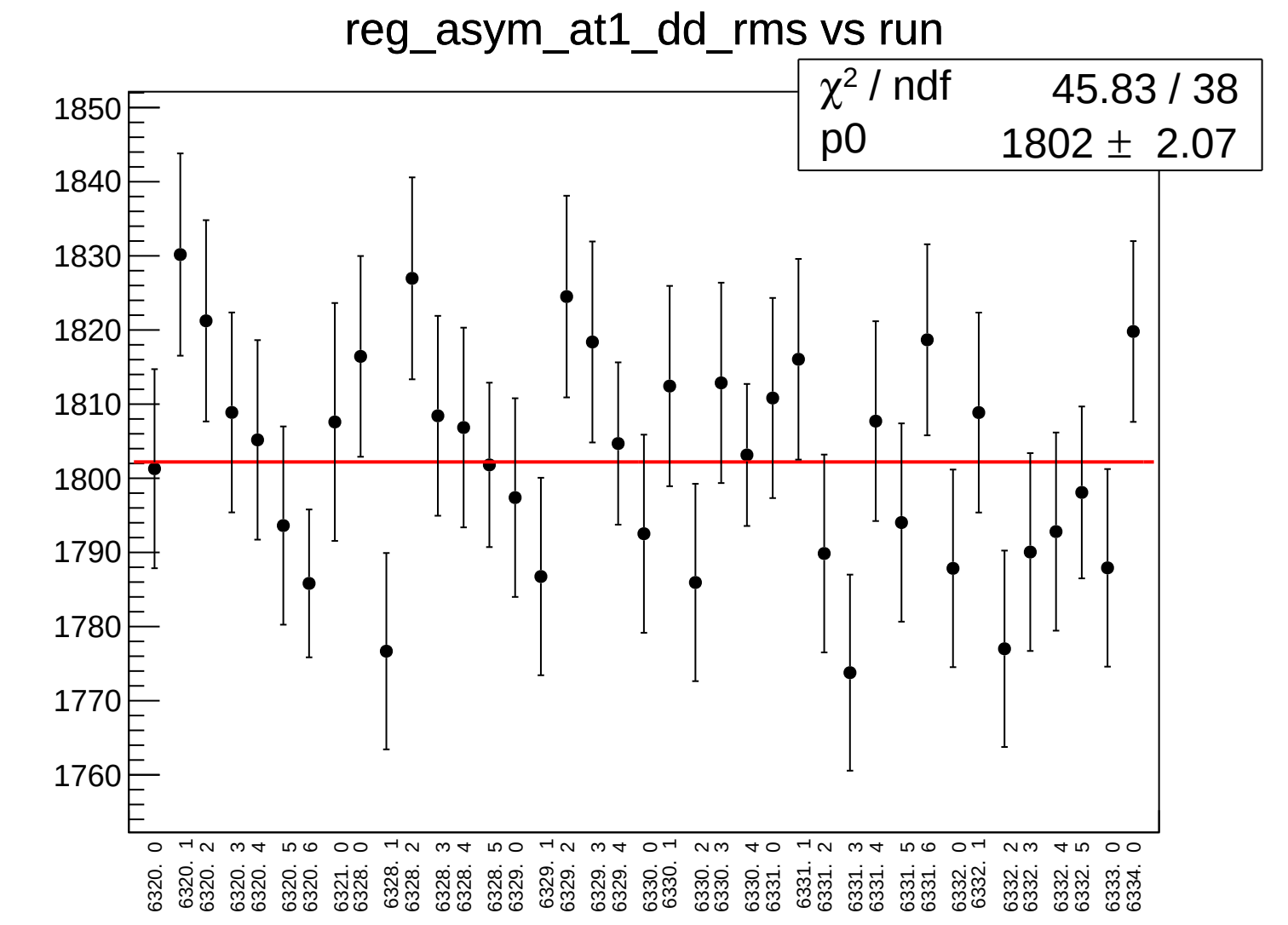

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.74 / 38
p0 3.252e−14 ± 2.249e−14
pull
Entries 39
Mean 71.48
Std Dev 0

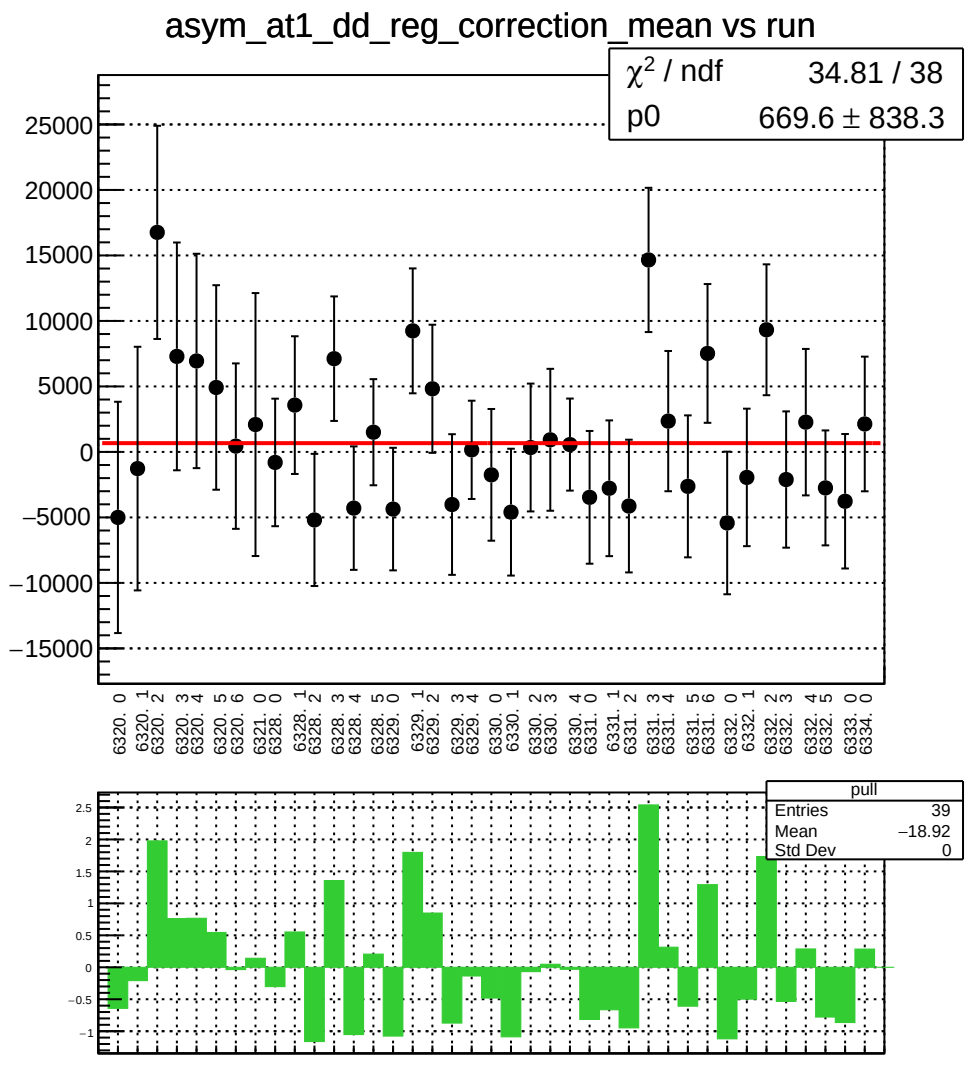

pull1D
Entries 39
Mean 0.01589
Std Dev 0.8876

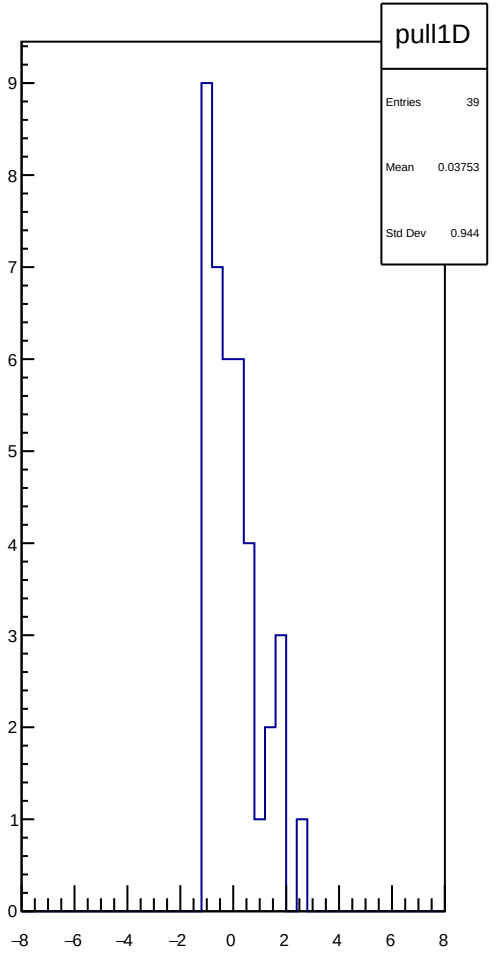

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.984e+05 / 38
p0 1.078e−11 ± 1.59e−14
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

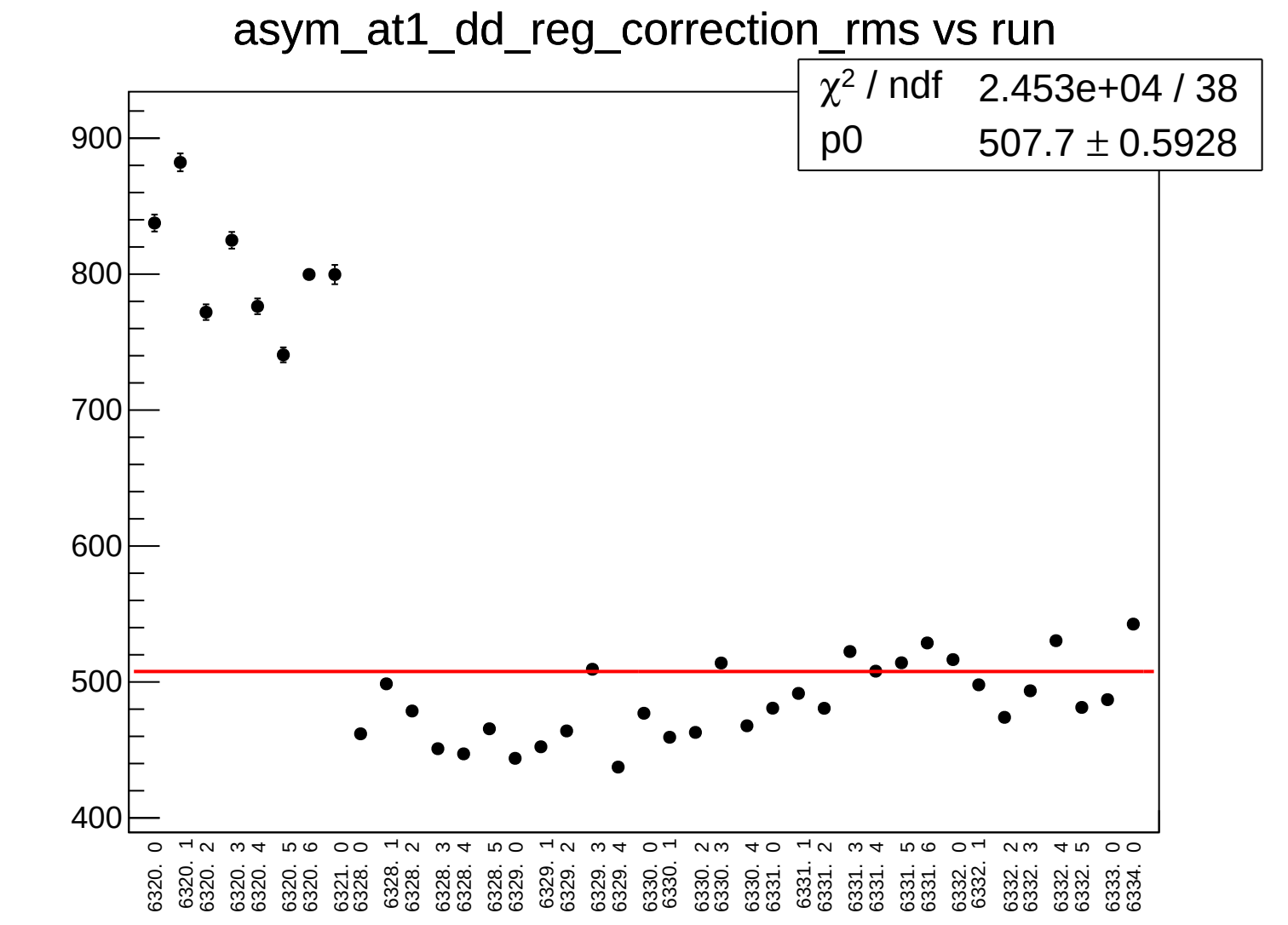

reg_asym_at1_dd_mean vs run
χ² / ndf 42.78 / 38
p0 −4695 ± 2927
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

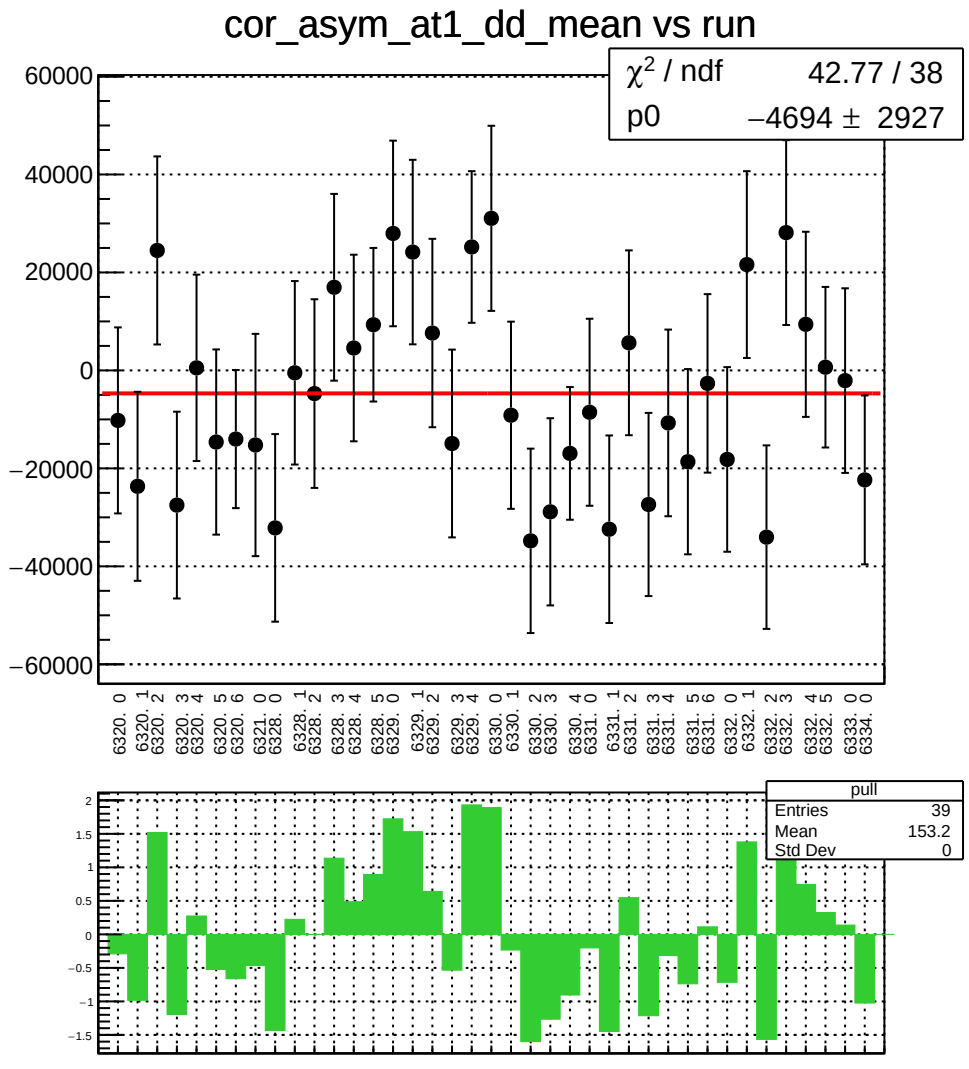

pull1D
Entries 39
Mean −0.001786
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

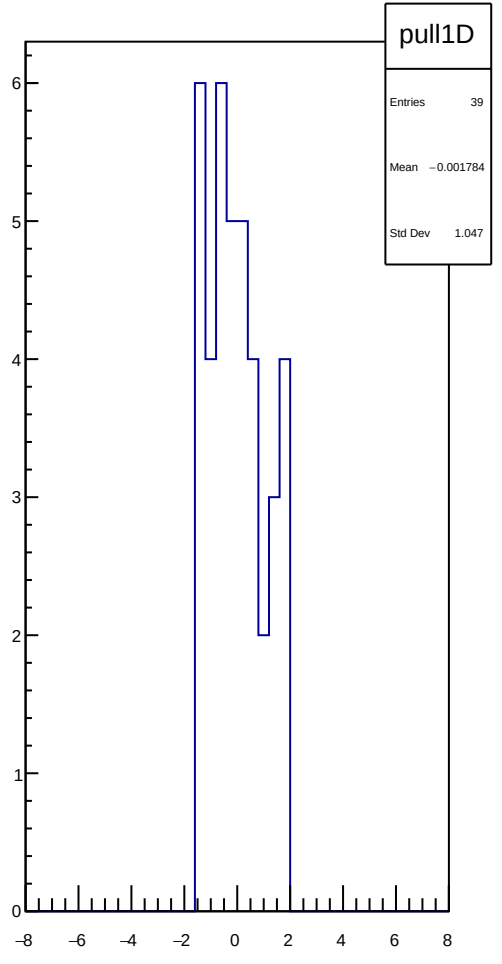

reg_asym_at1_dd_rms vs run
χ² / ndf 45.83 / 38
p0 1802 ± 2.07
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

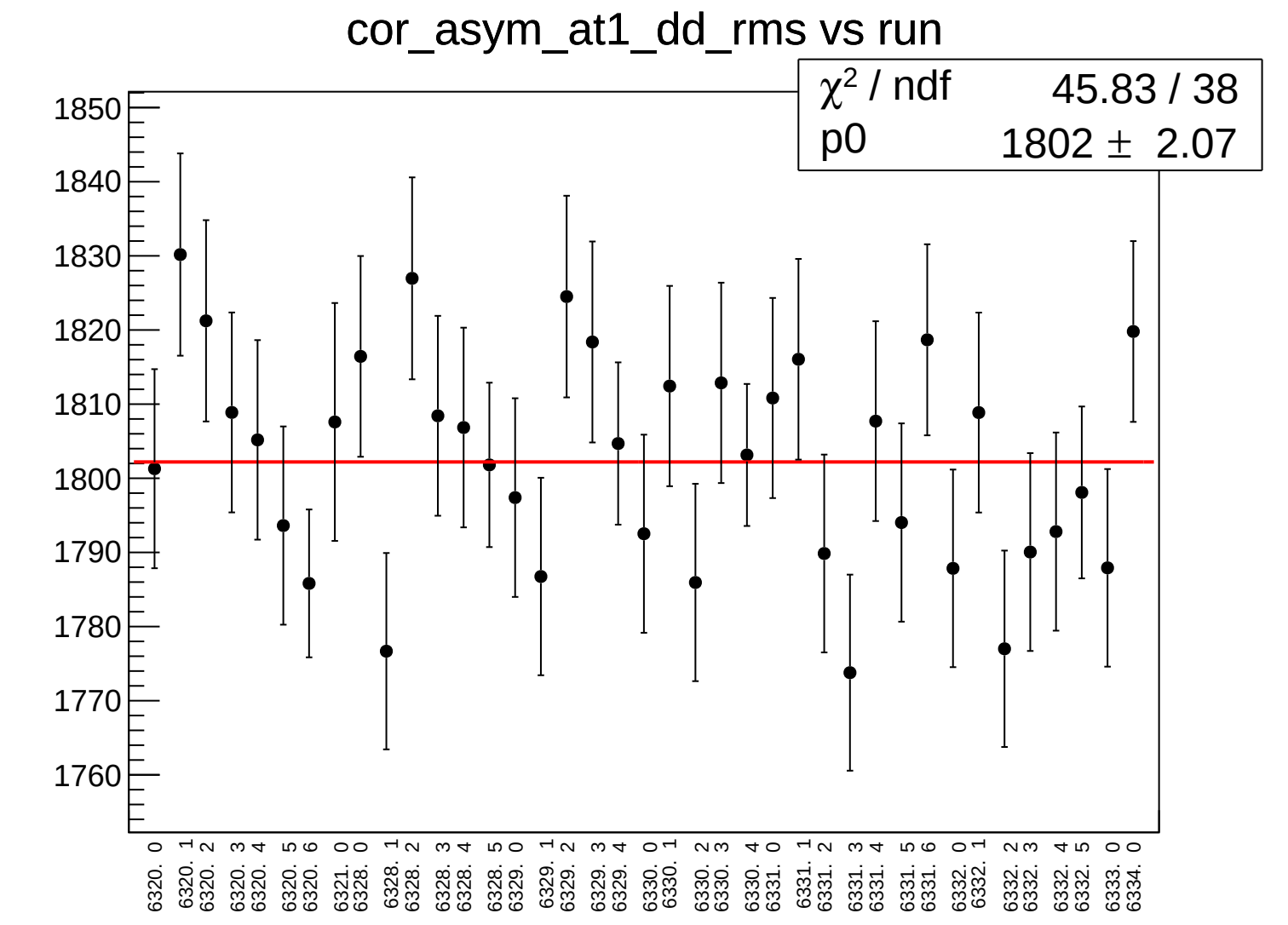

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 34.81 / 38
p0 669.6 ± 838.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

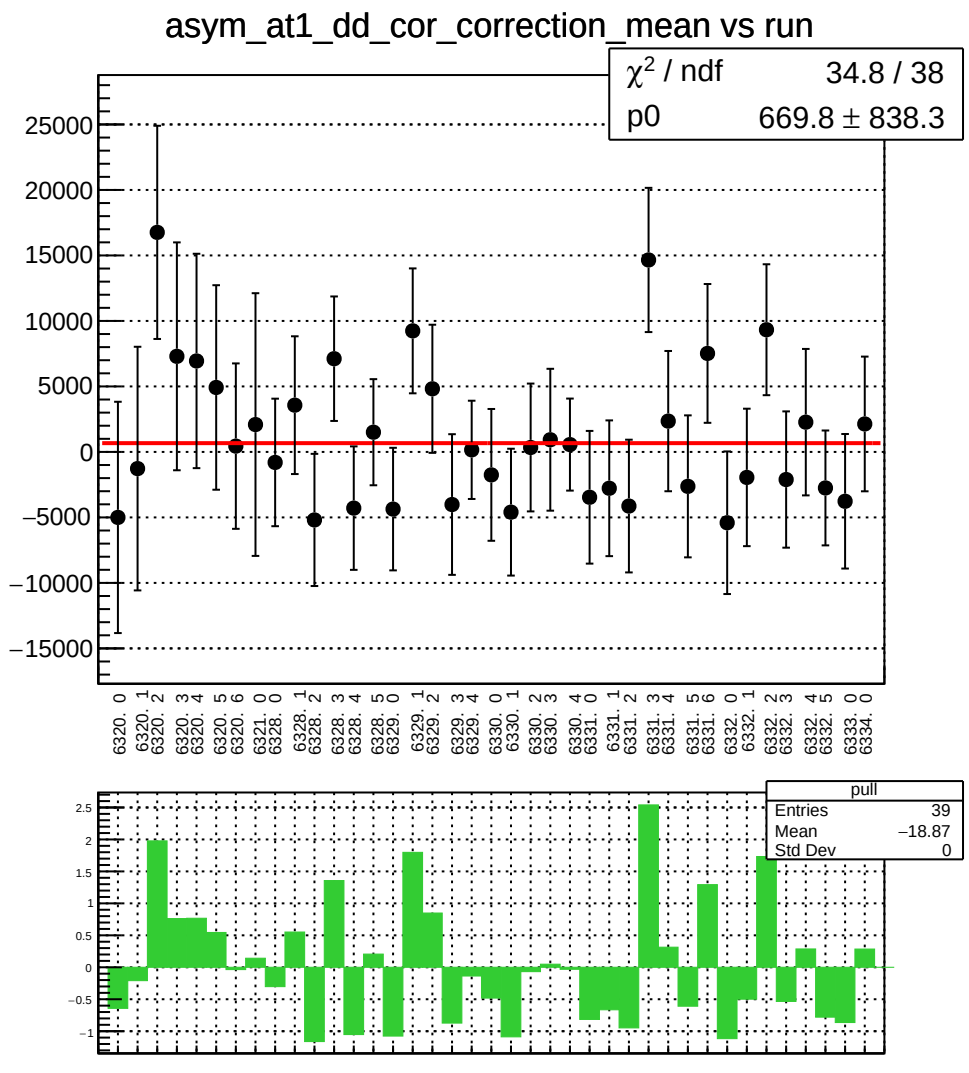

pull1D
Entries 39
Mean 0.03753
Std Dev 0.944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

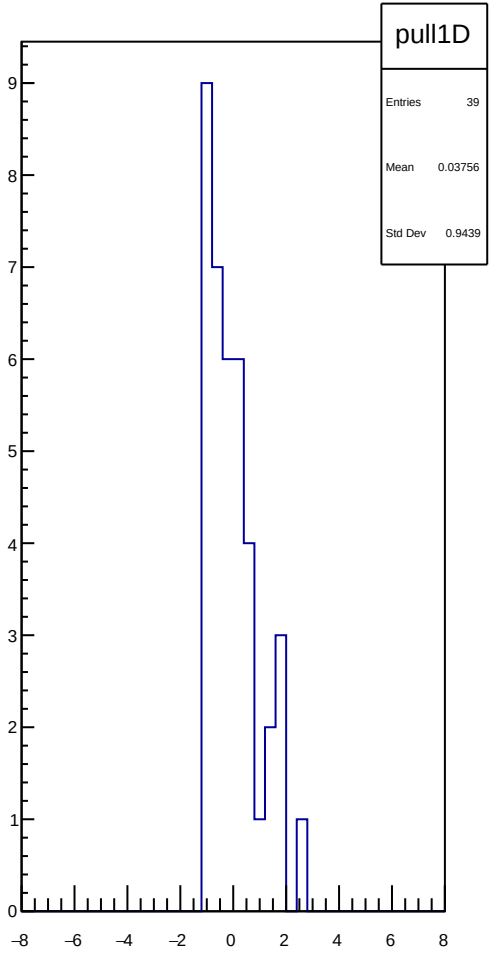

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2.453e+04 / 38
p0 507.7 ± 0.5928
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

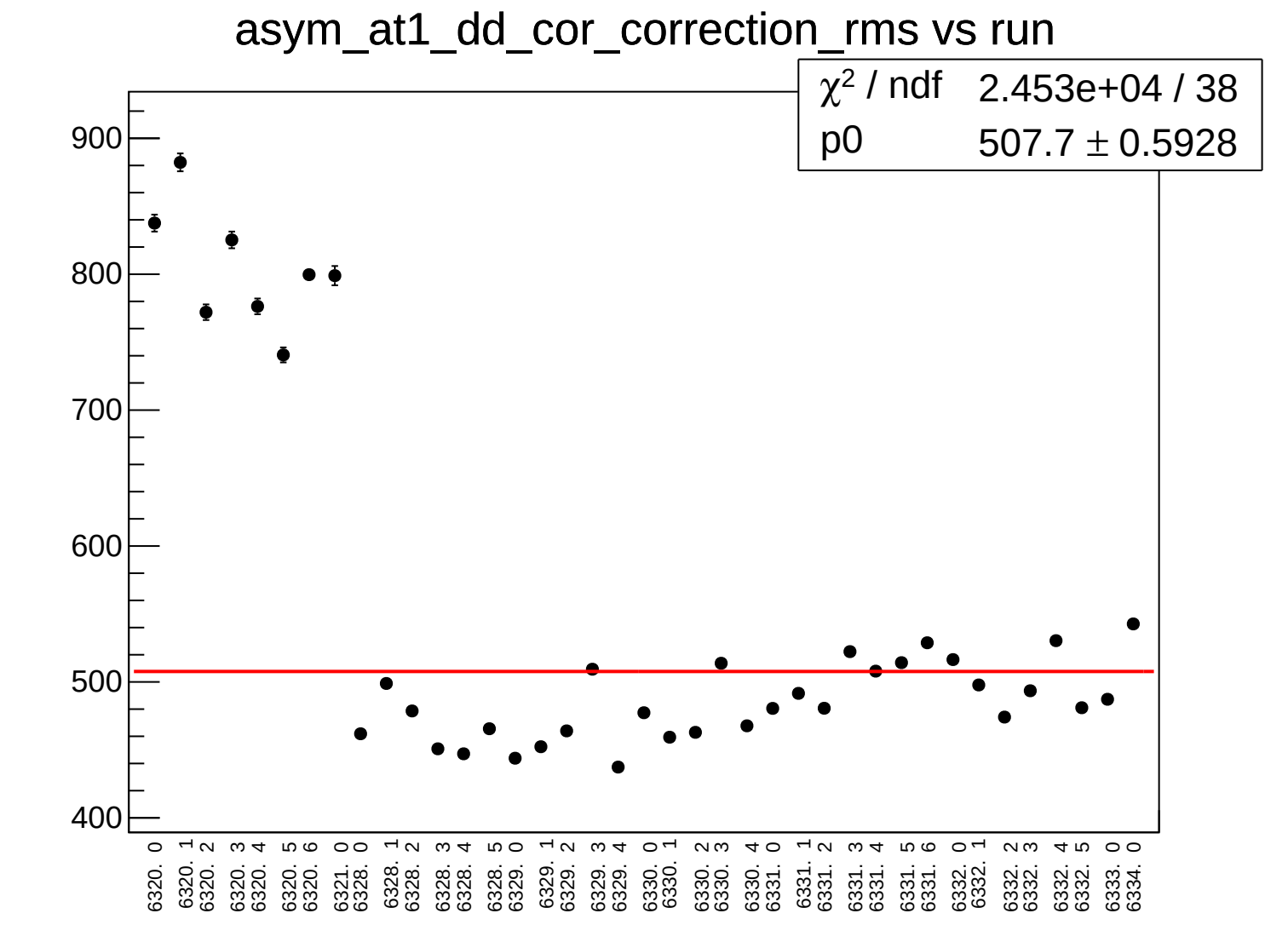

cor_asym_at1_dd_mean vs run
χ² / ndf 42.77 / 38
p0 −4694 ± 2927
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

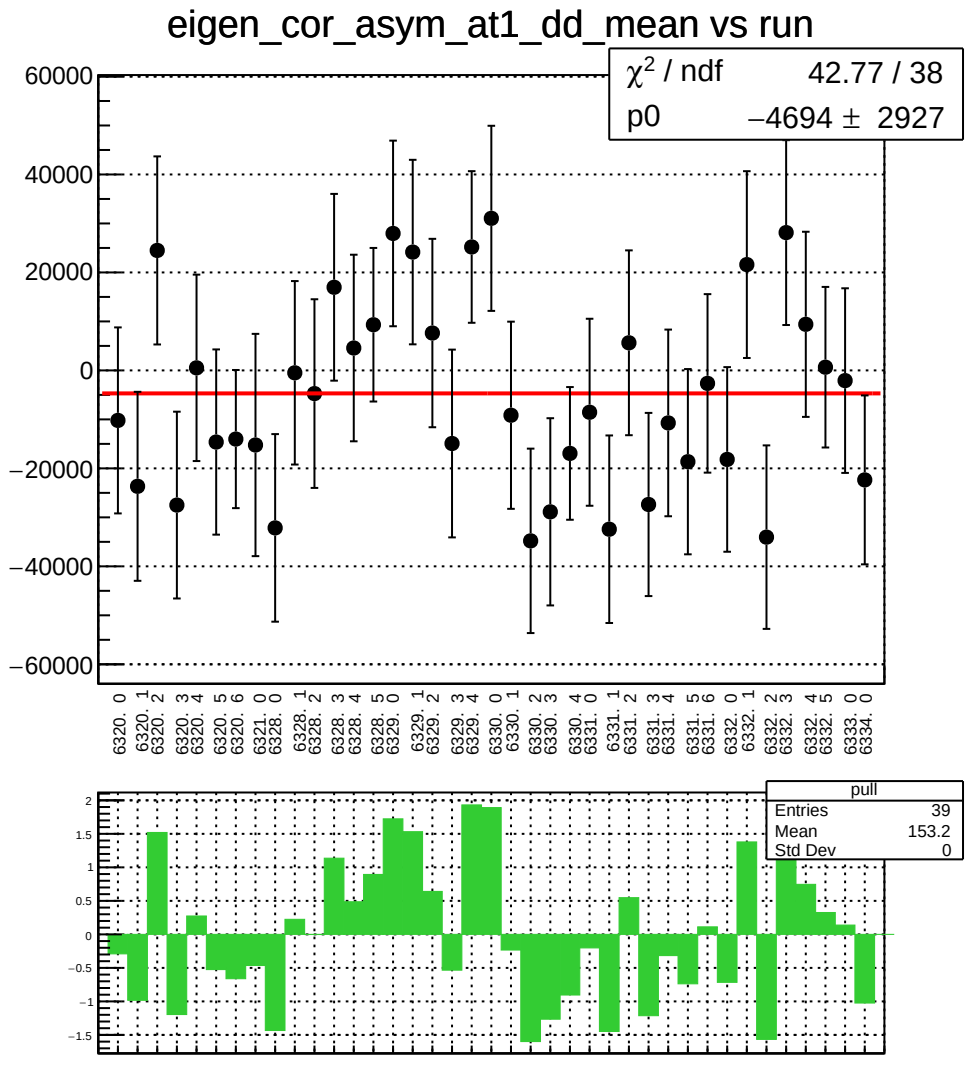

pull1D
Entries 39
Mean −0.001784
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

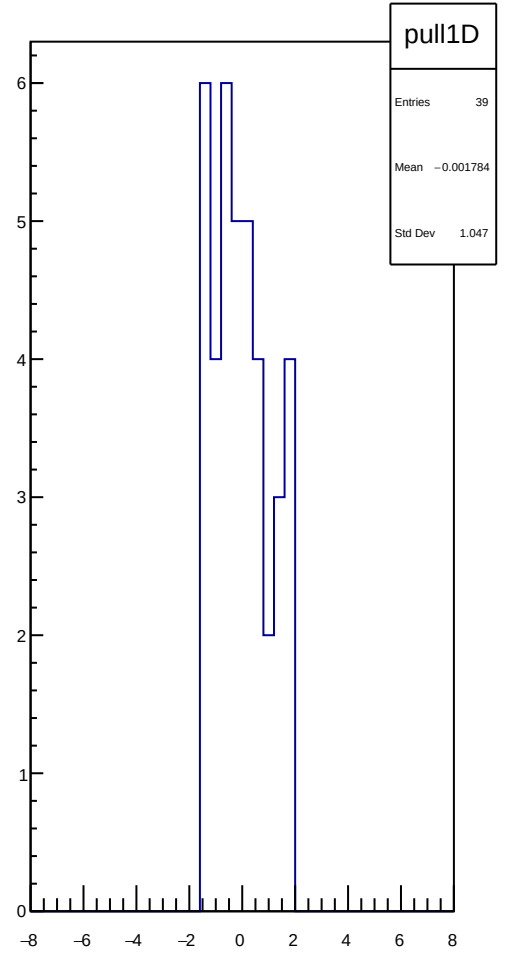

cor_asym_at1_dd_rms vs run
χ² / ndf 45.83 / 38
p0 1802 ± 2.07
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

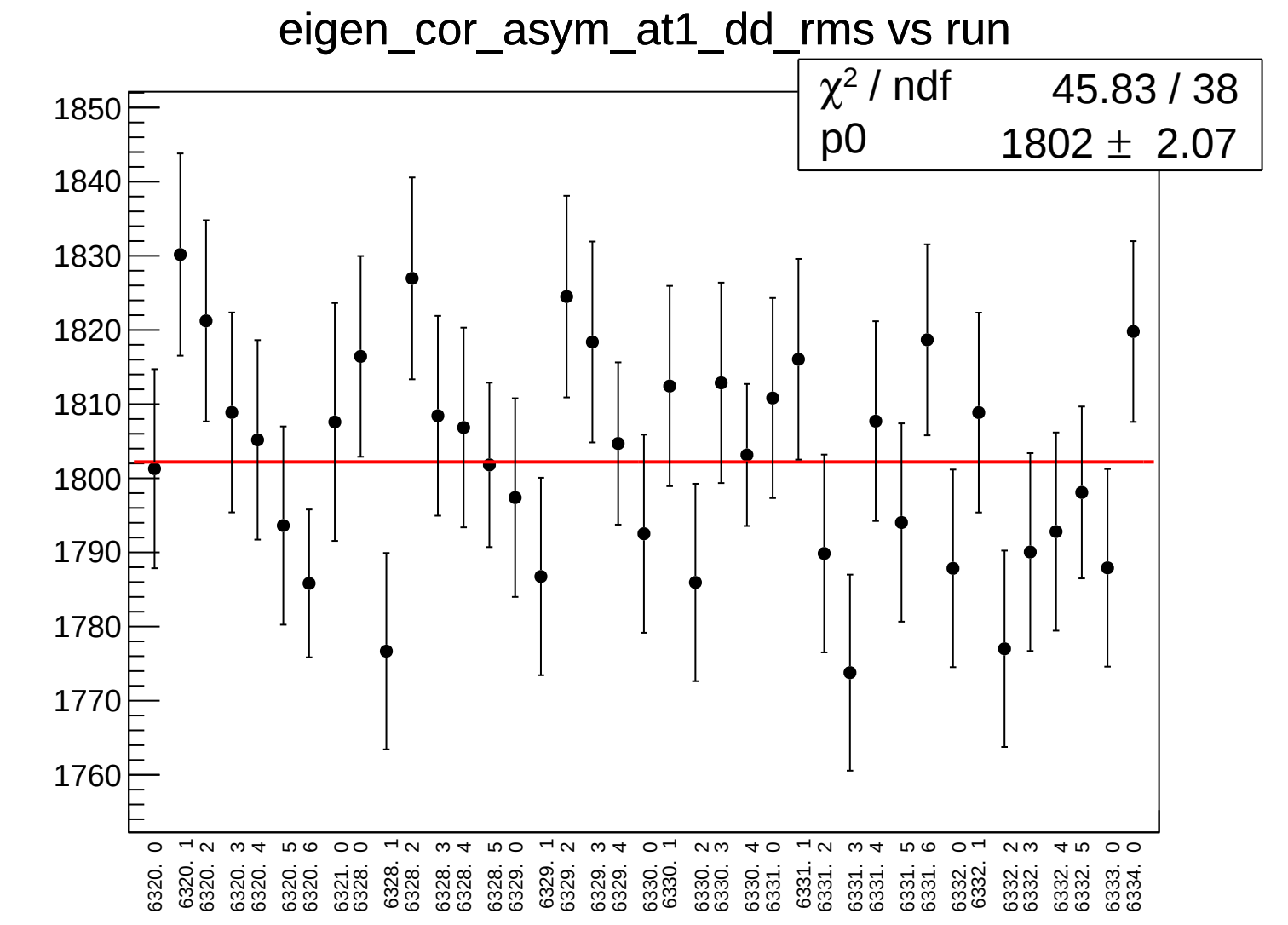

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 34.8 / 38
p0 669.8 ± 838.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

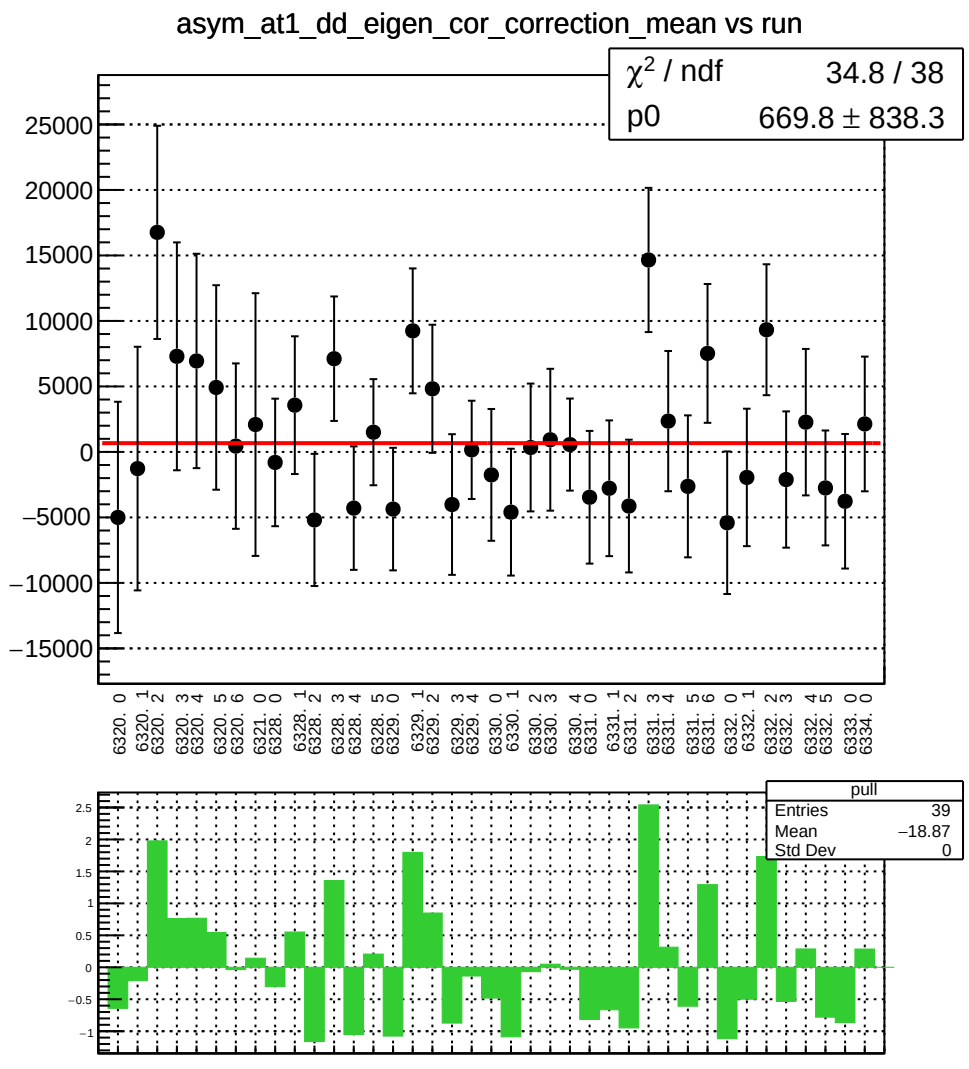

pull1D
Entries 39
Mean 0.03756
Std Dev 0.9439
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2.453e+04 / 38
p0 507.7 ± 0.5928
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 42.77 / 38
p0 −4694 ± 2927
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.001784
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 45.83 / 38
p0 1802 ± 2.07
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.8 / 38
p0 669.8 ± 838.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
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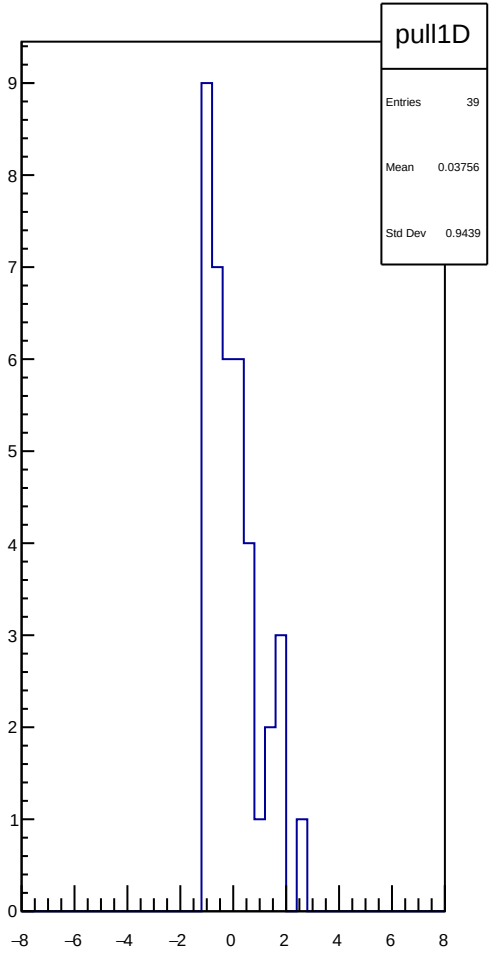
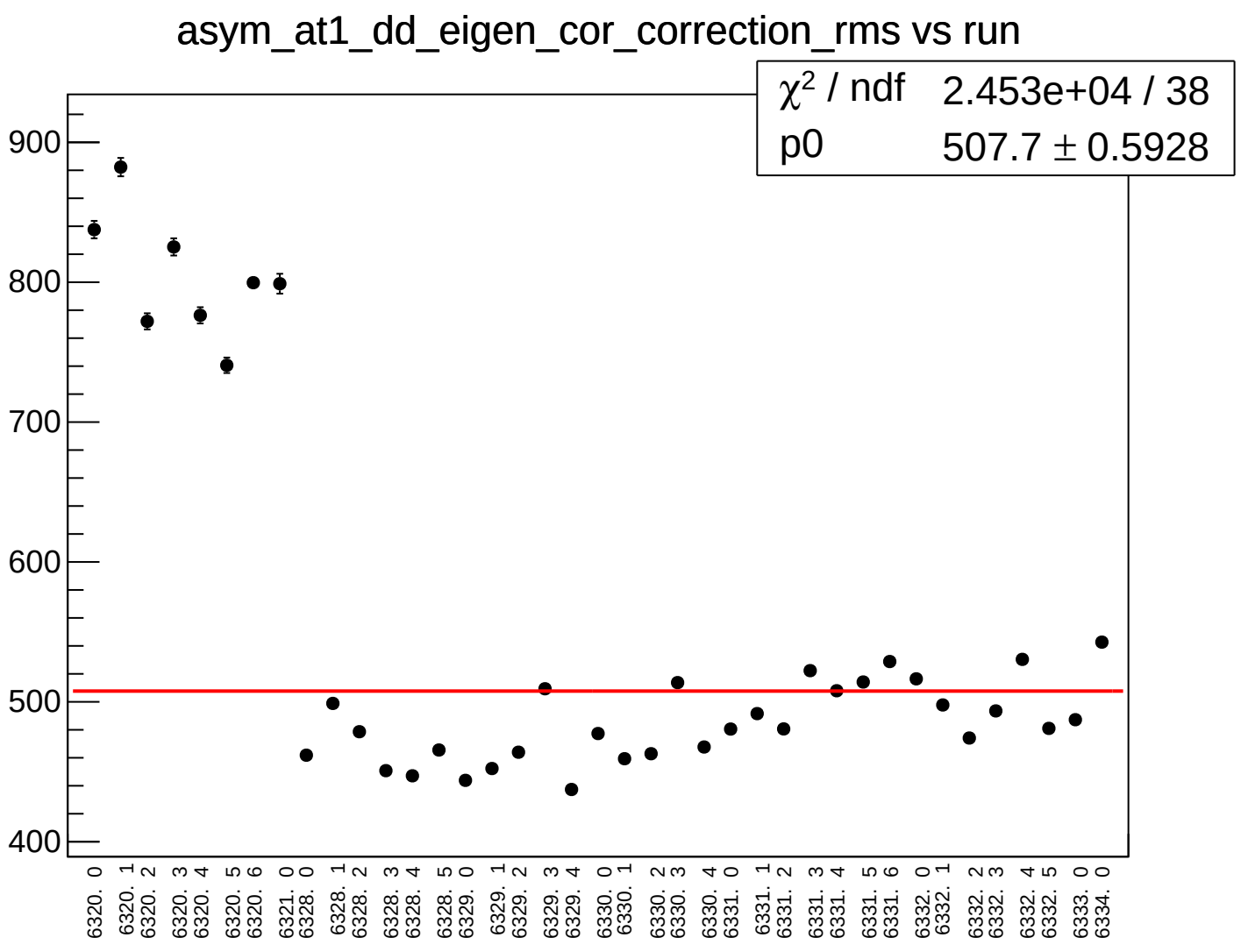
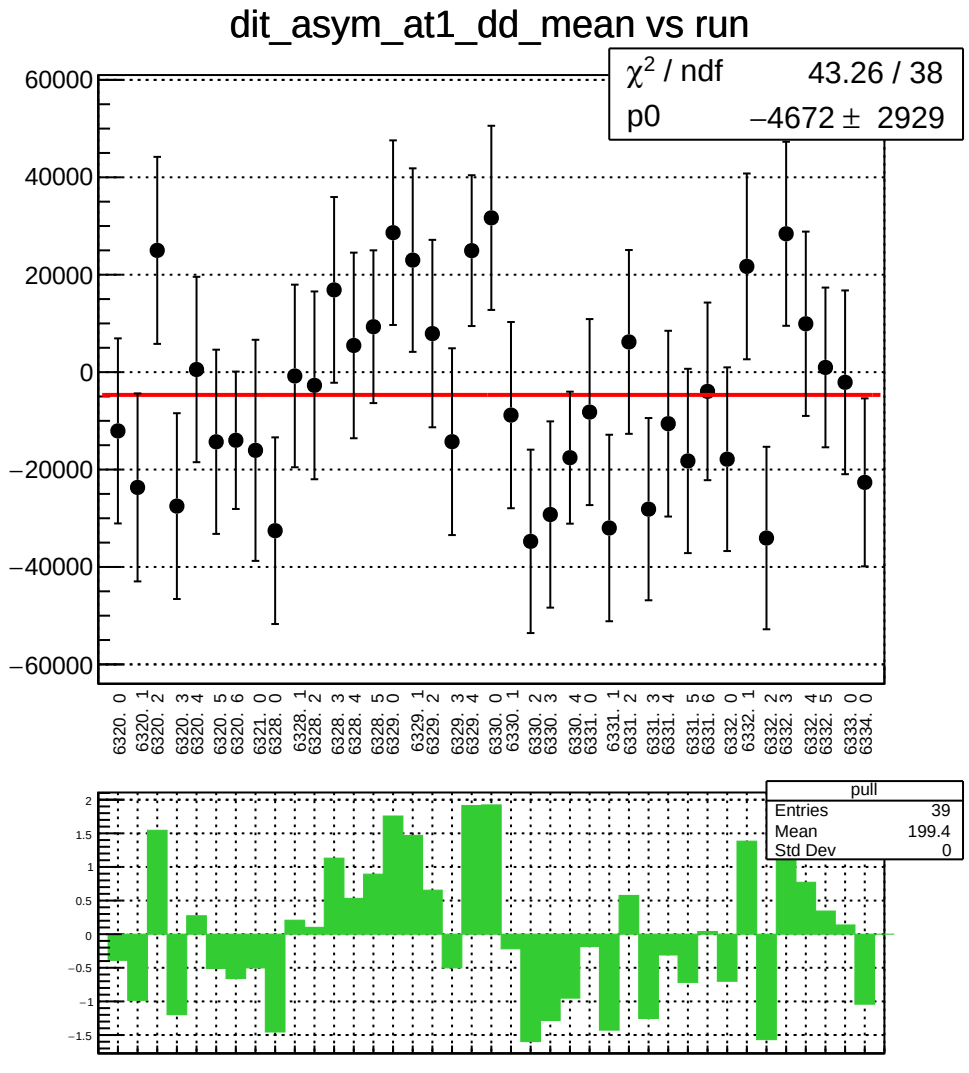
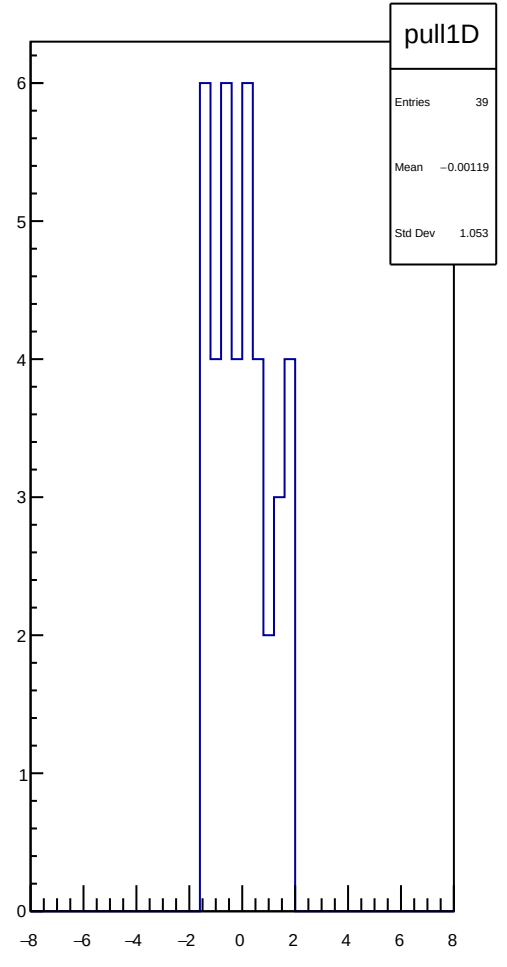
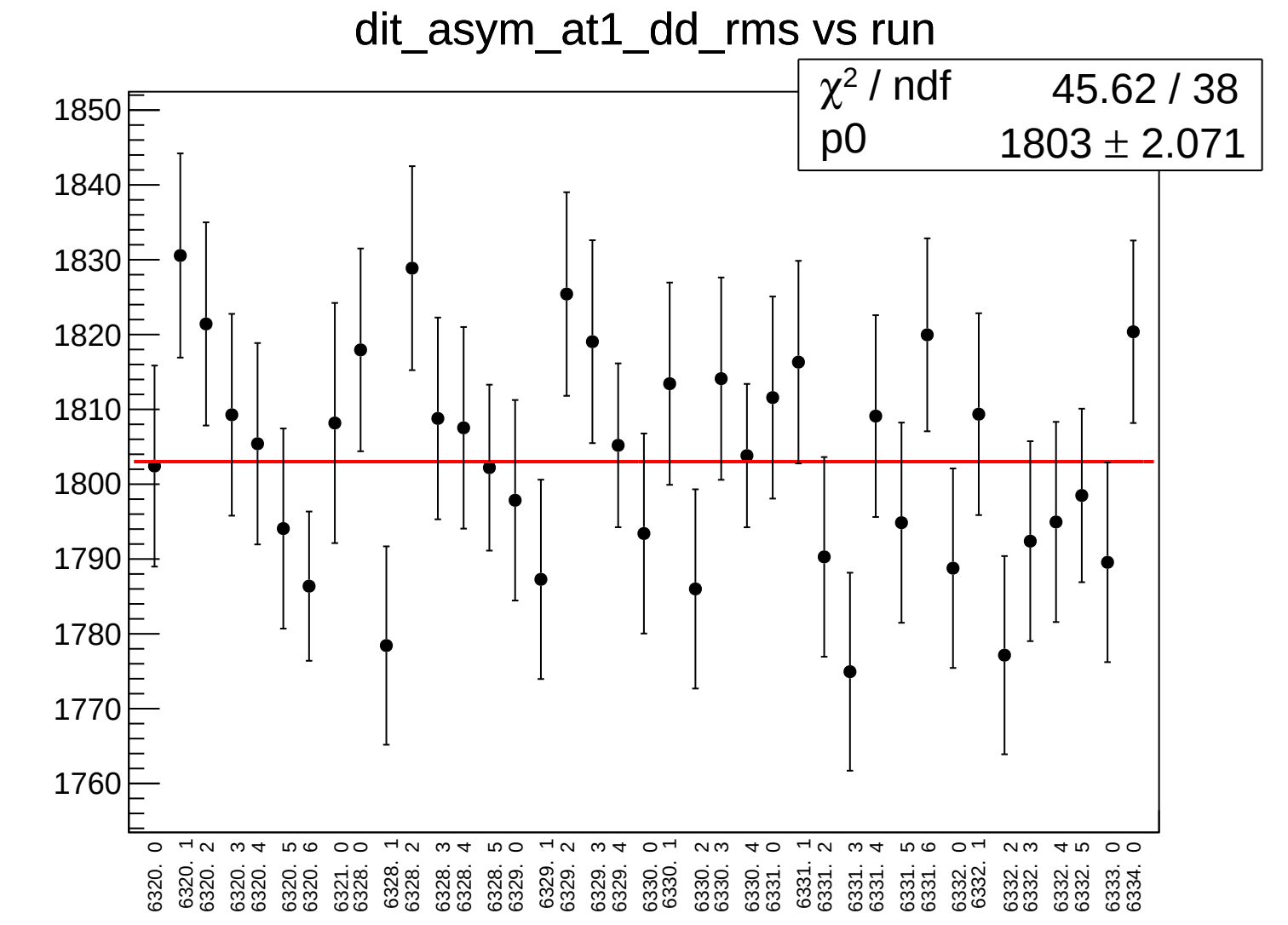
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

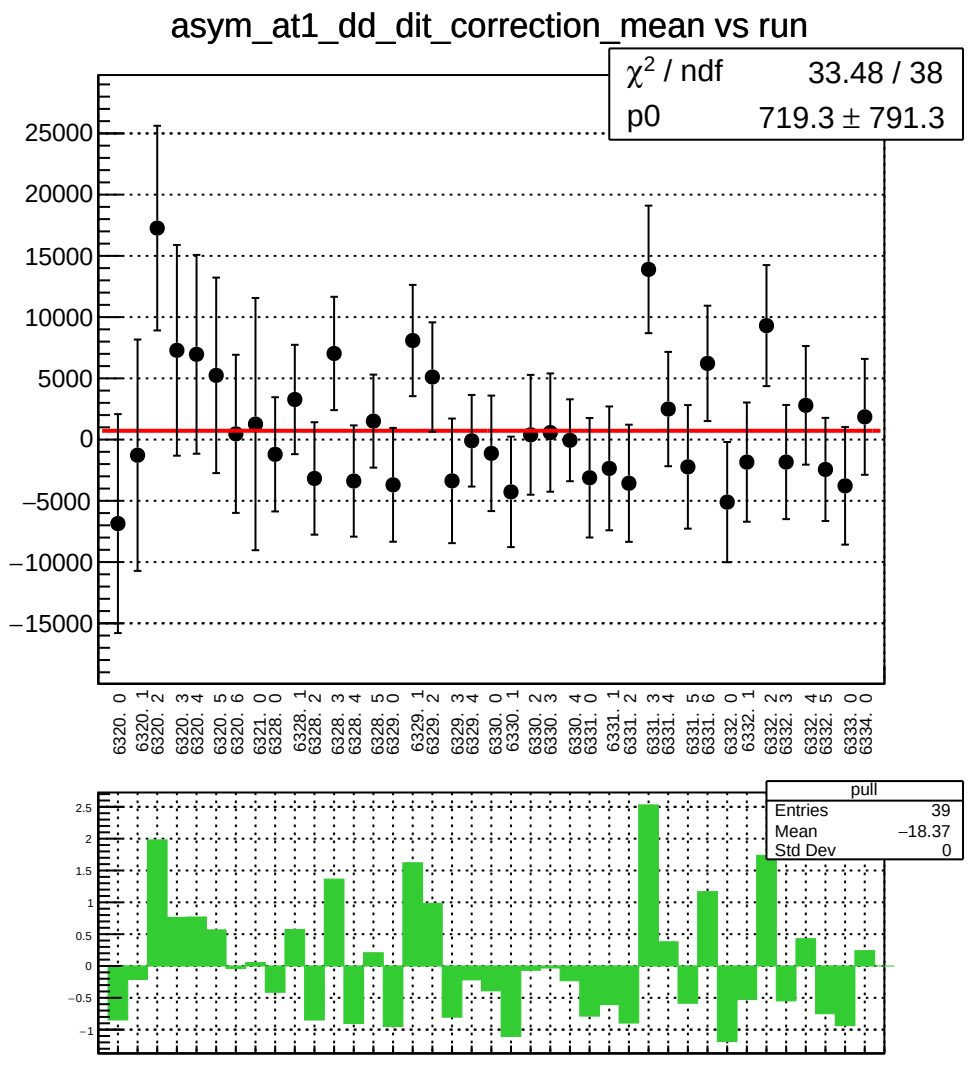

pull1D
Entries 39
Mean 0.03756
Std Dev 0.9439
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

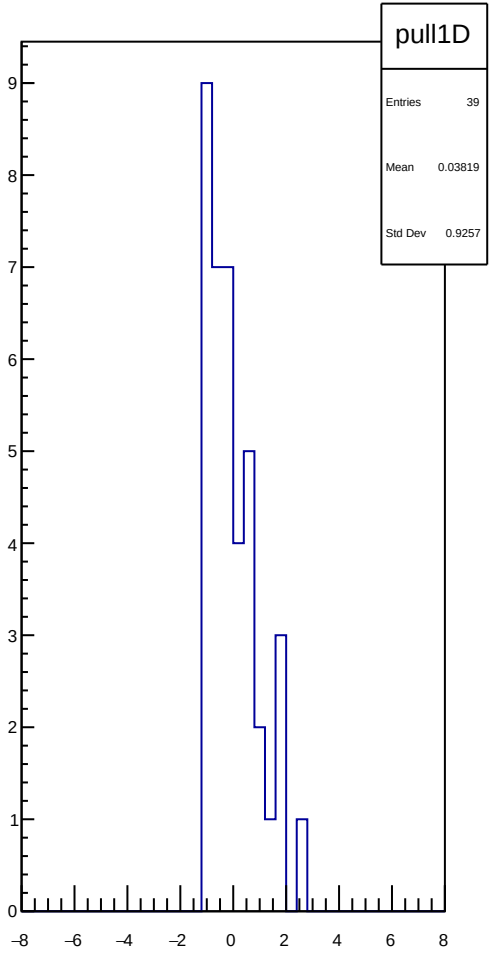

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.453e+04 / 38
p0 507.7 ± 0.5928
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

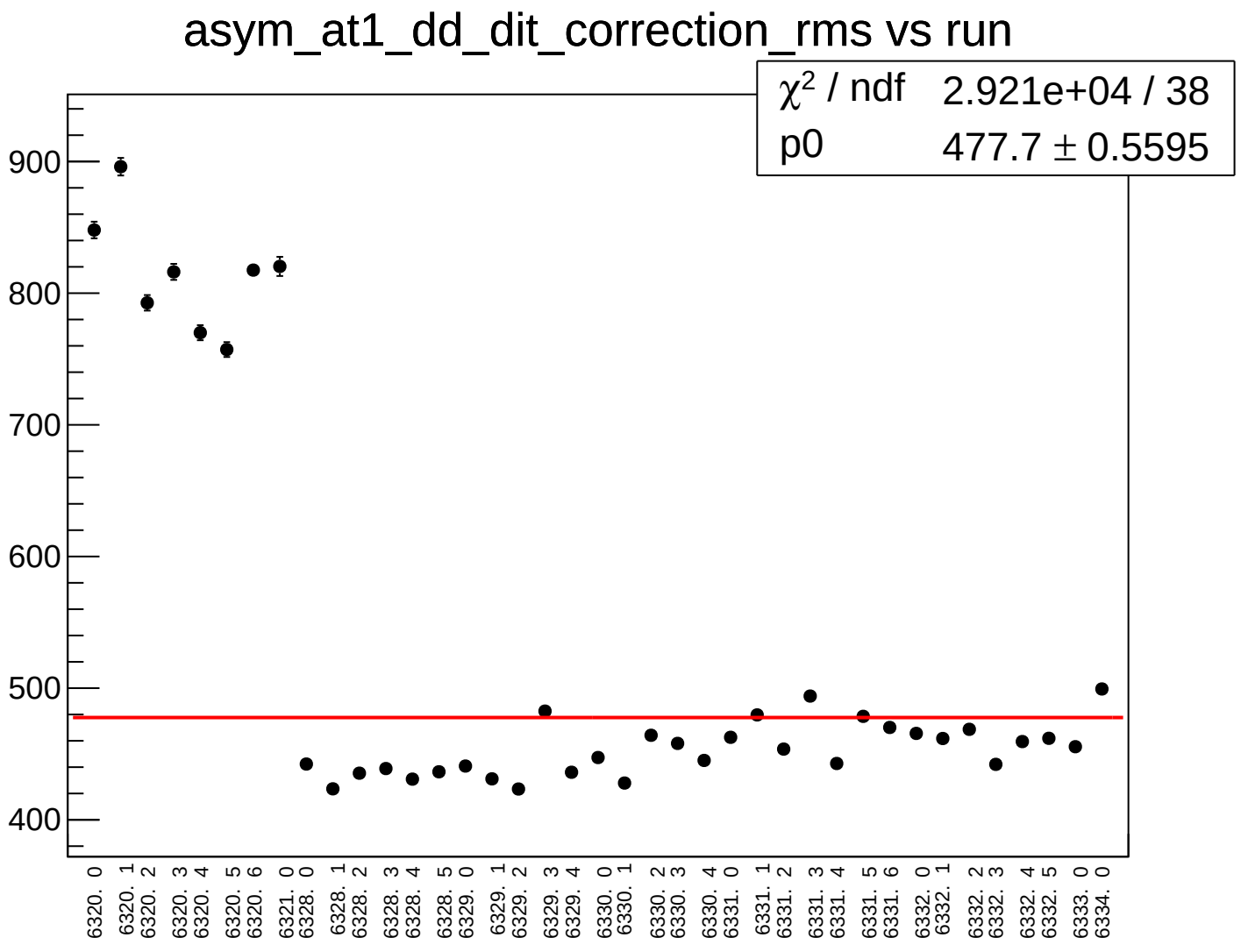

dit_asym_at1_dd_mean vs run
χ² / ndf 43.26 / 38
p0 −4672 ± 2929
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

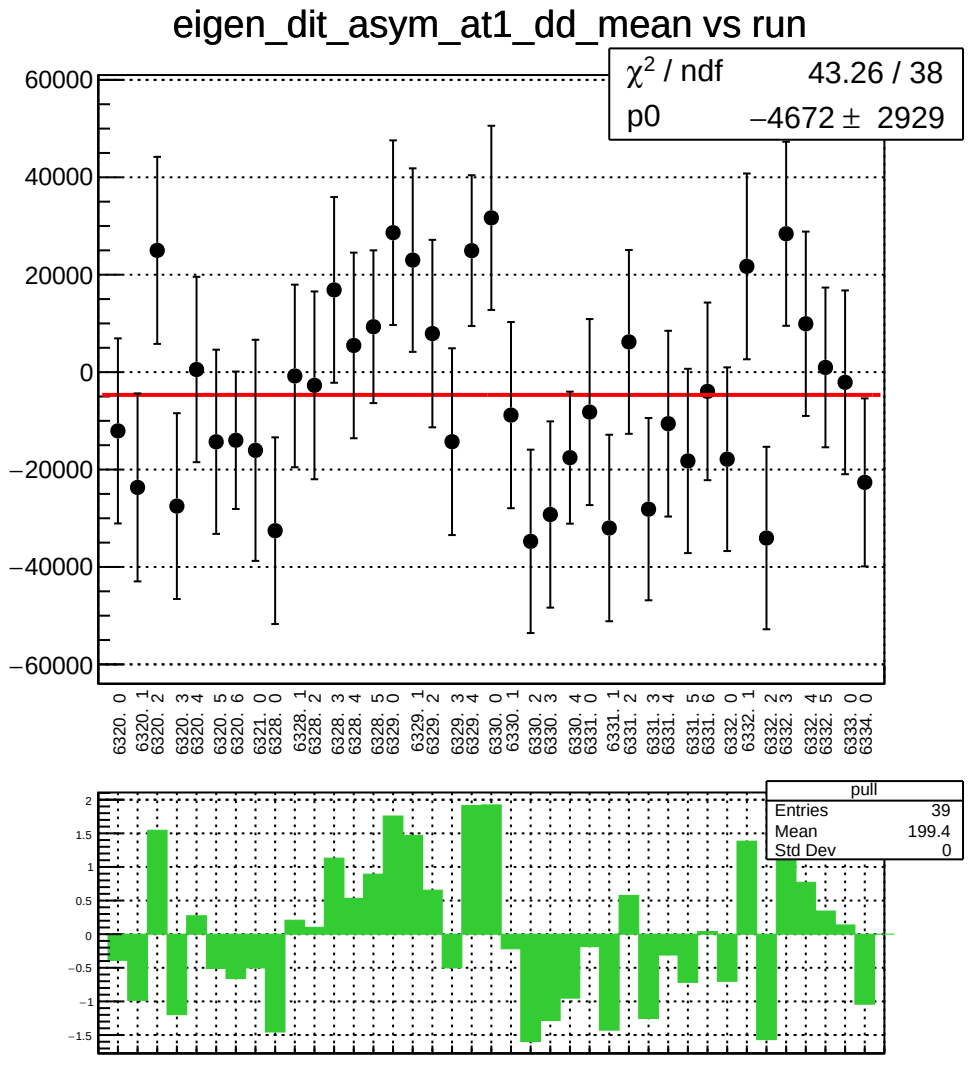

pull1D
Entries 39
Mean −0.00119
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

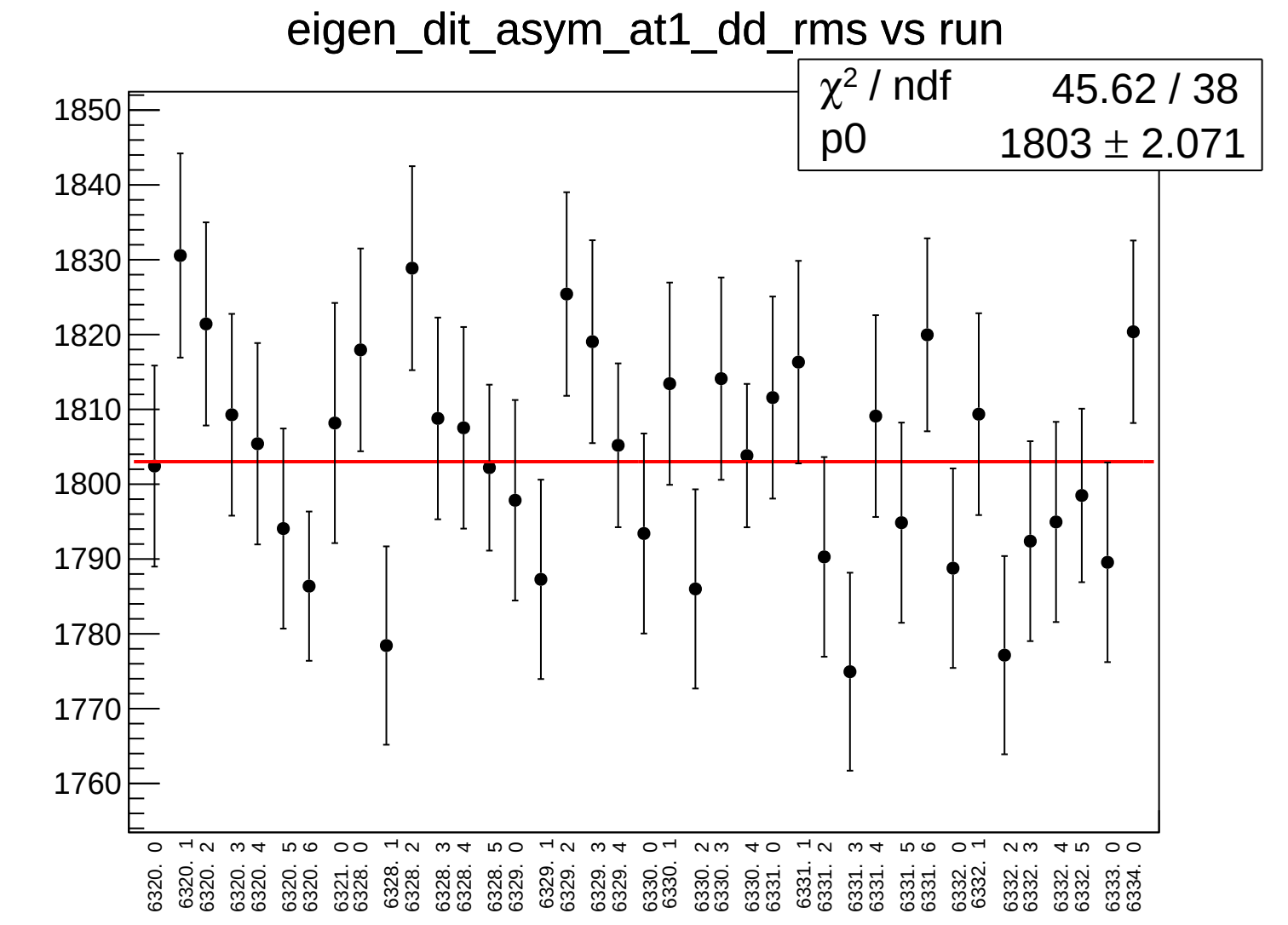

dit_asym_at1_dd_rms vs run
χ² / ndf 45.62 / 38
p0 1803 ± 2.071
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

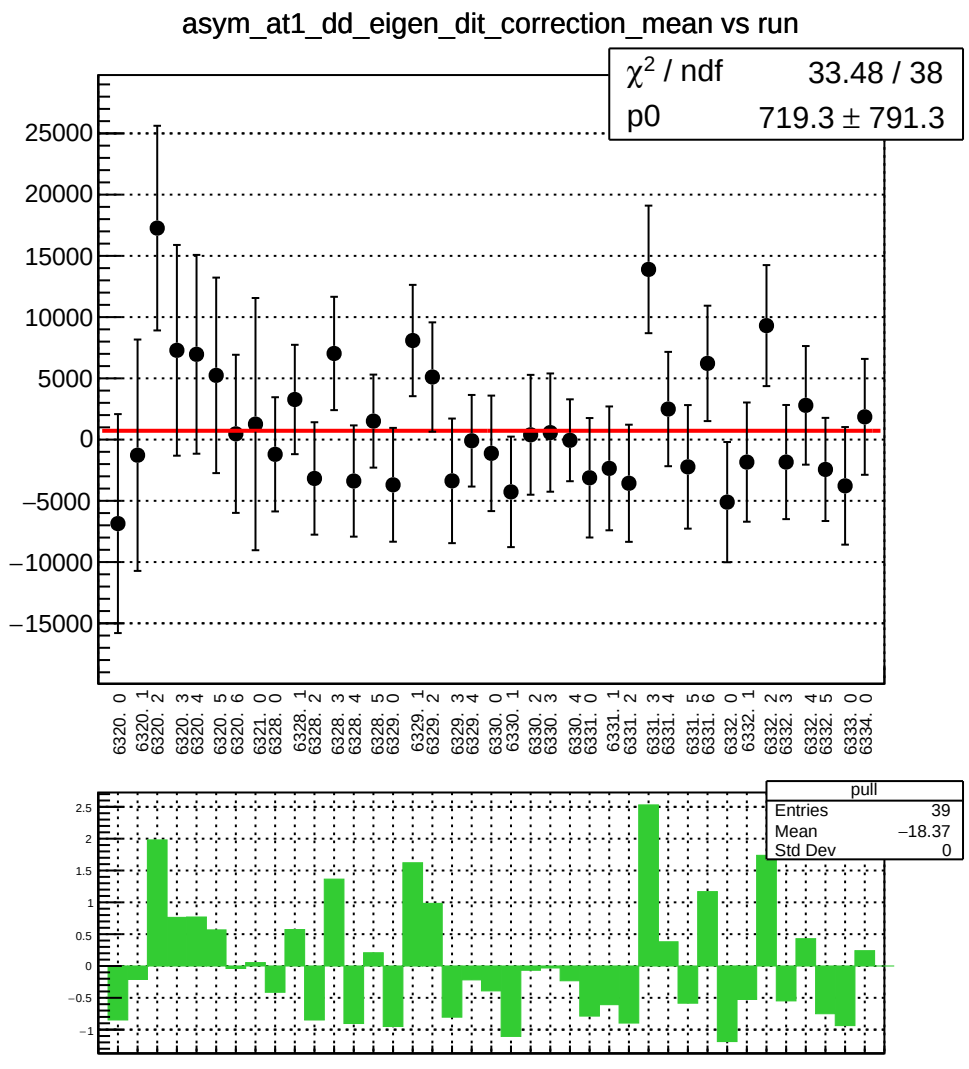

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 33.48 / 38
p0 719.3 ± 791.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

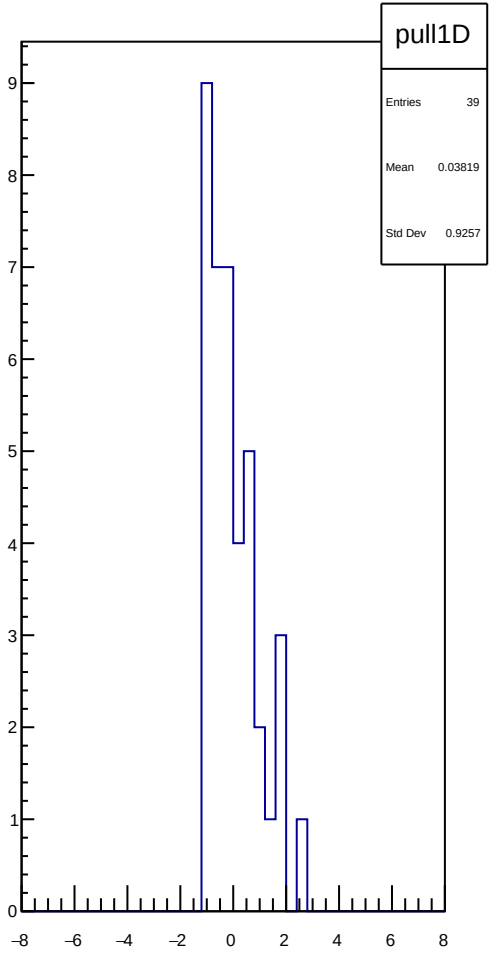

pull1D
Entries 39
Mean 0.03819
Std Dev 0.9257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

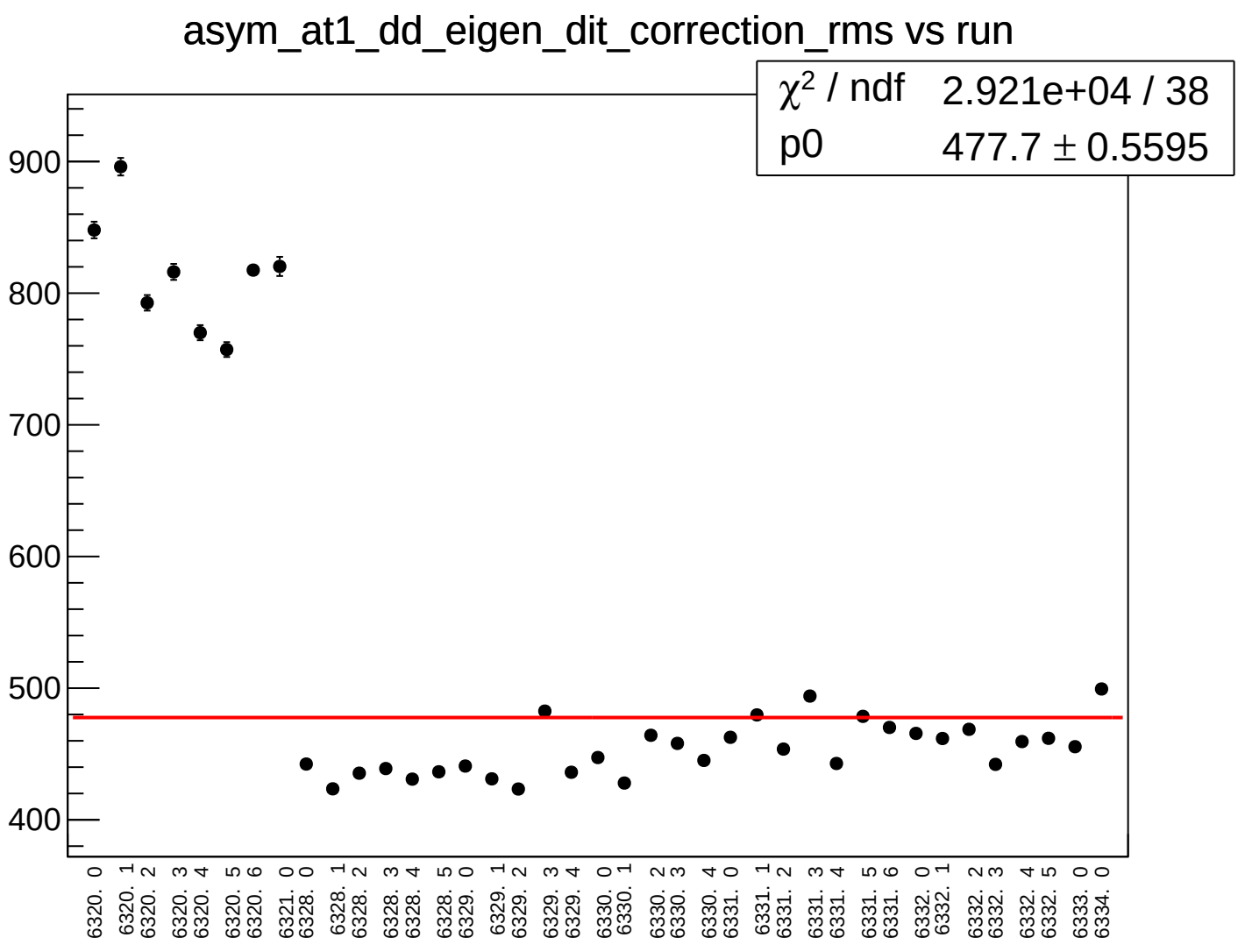

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 38
p0 477.7 ± 0.5595
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

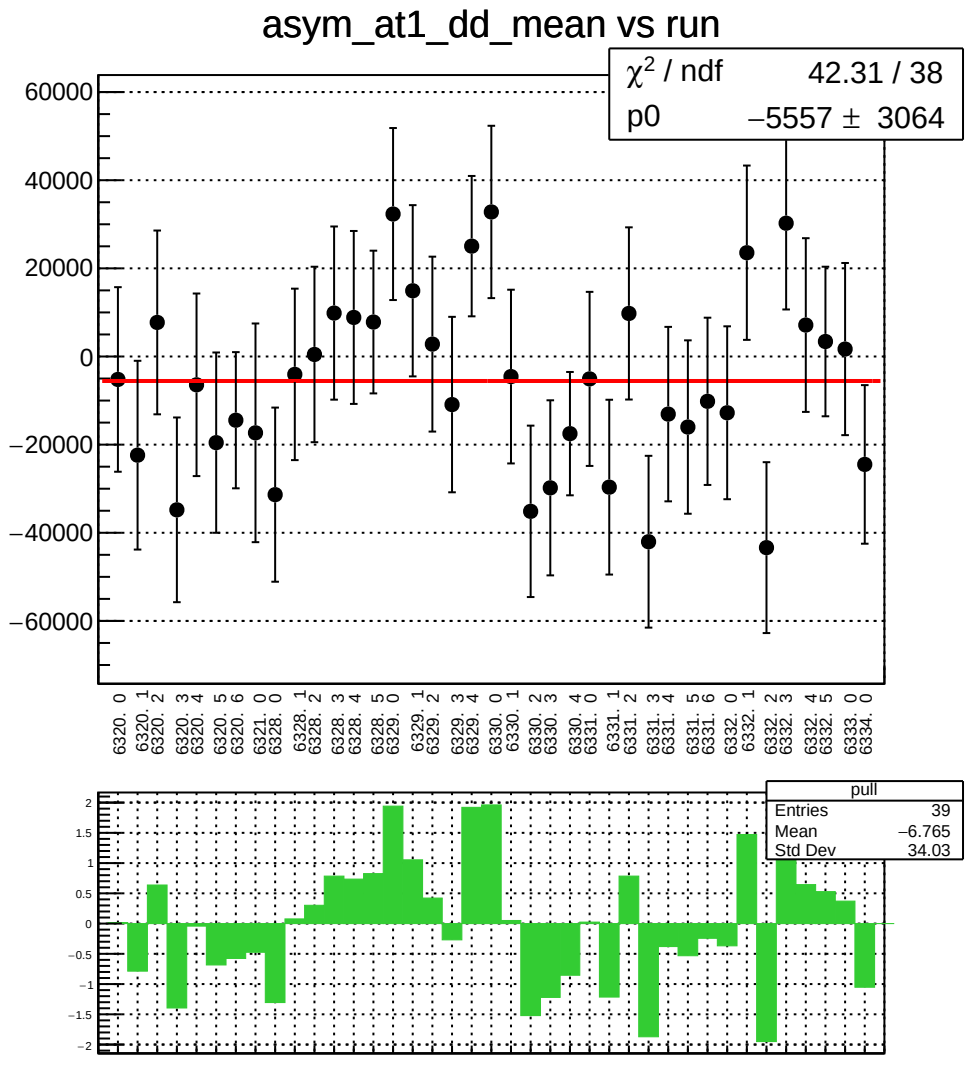

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 43.26 / 38
p0 −4672 ± 2929
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.00119
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

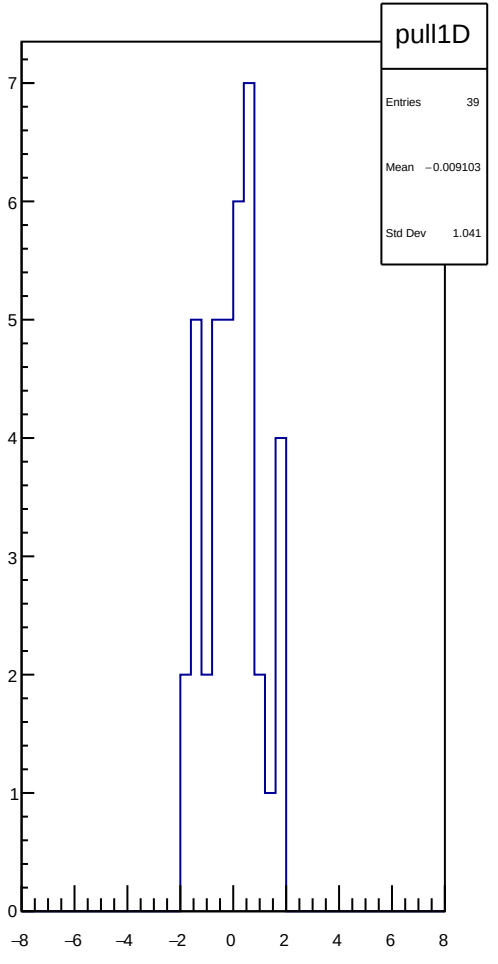

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 45.62 / 38
p0 1803 ± 2.071
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

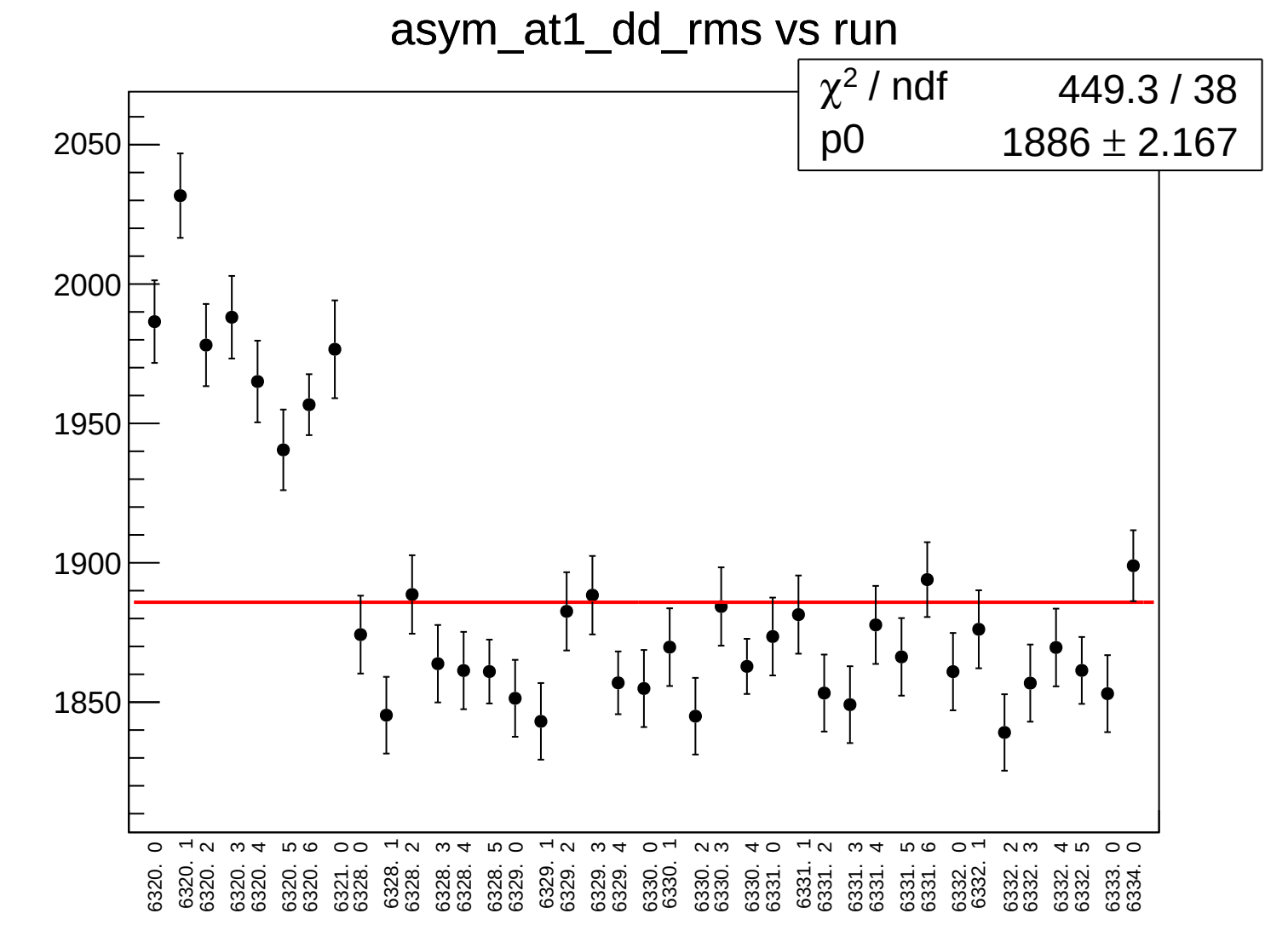

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.48 / 38
p0 719.3 ± 791.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

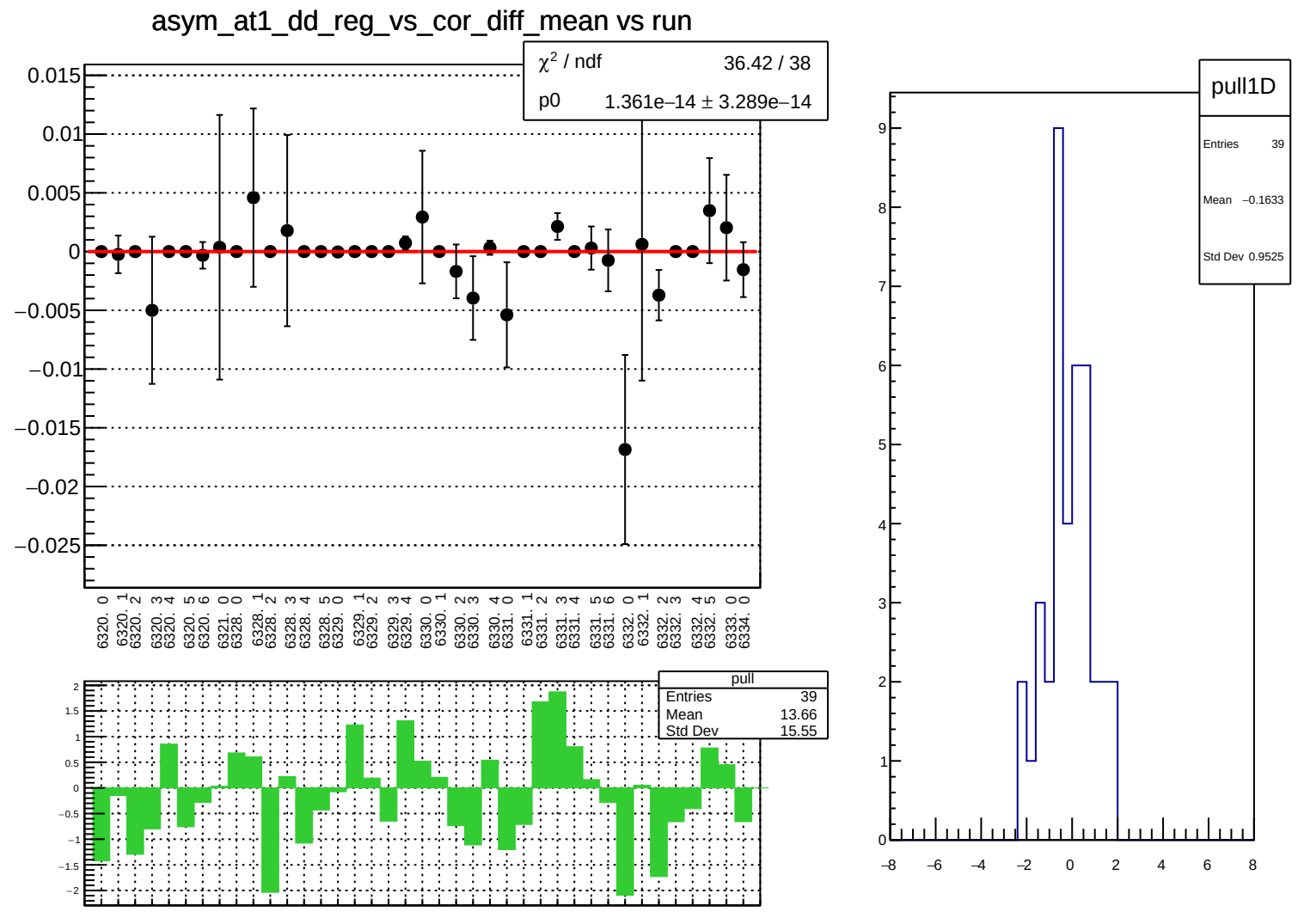

pull1D
Entries 39
Mean 0.03819
Std Dev 0.9257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

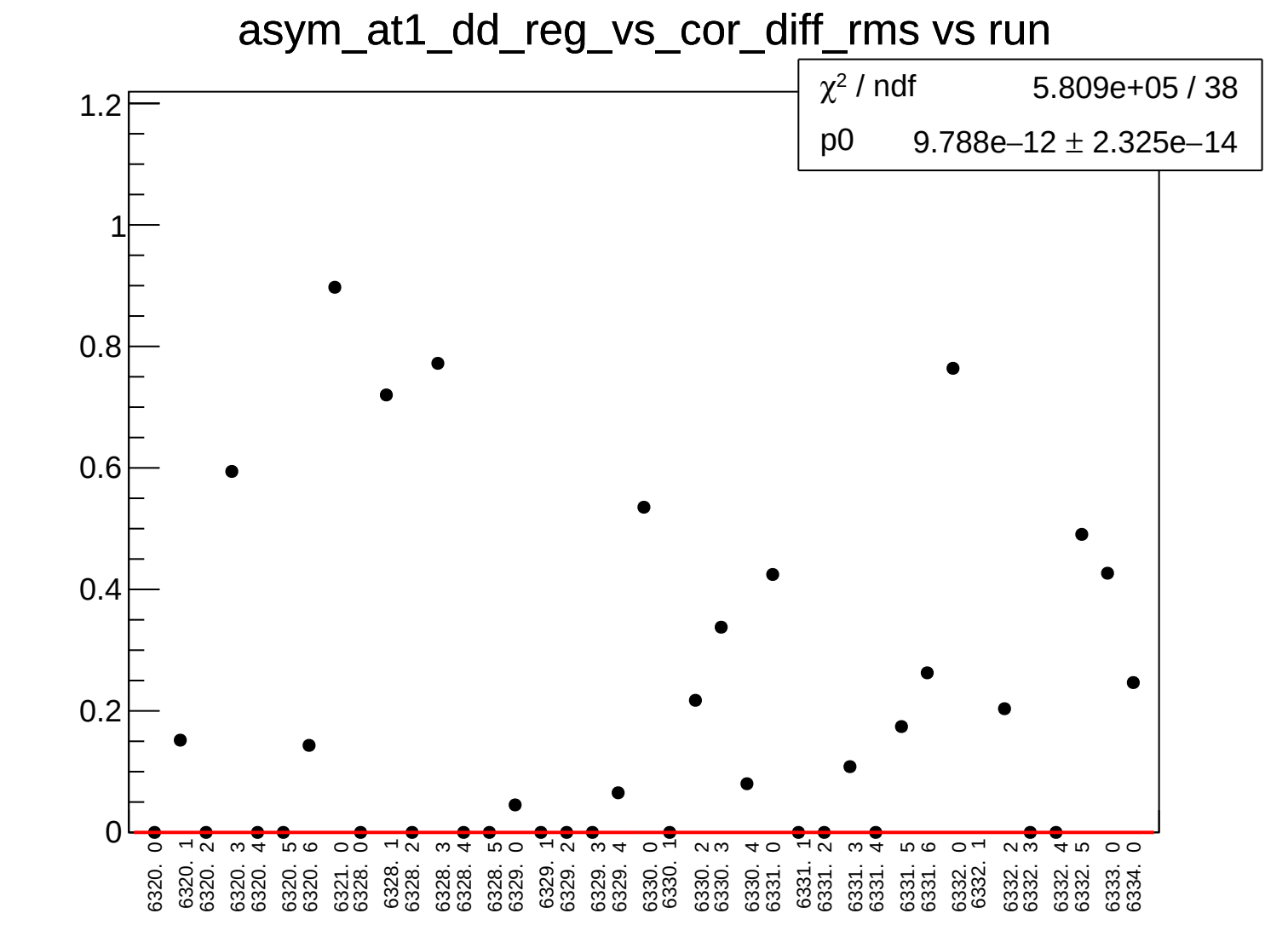

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.921e+04 / 38
p0 477.7 ± 0.5595
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

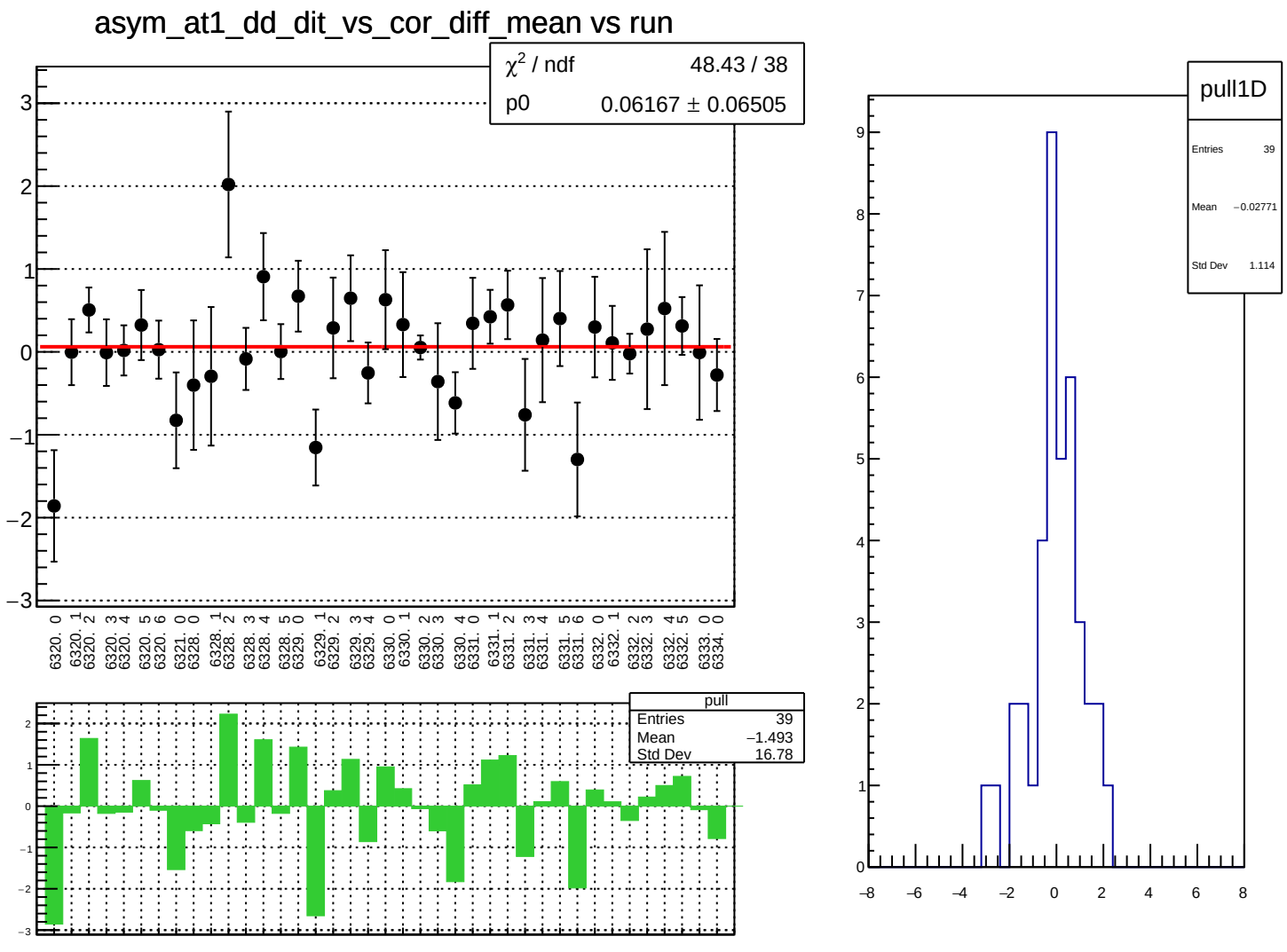

asym_at1_dd_mean vs run
χ² / ndf 42.31 / 38
p0 −5557 ± 3064
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.765
Std Dev 34.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

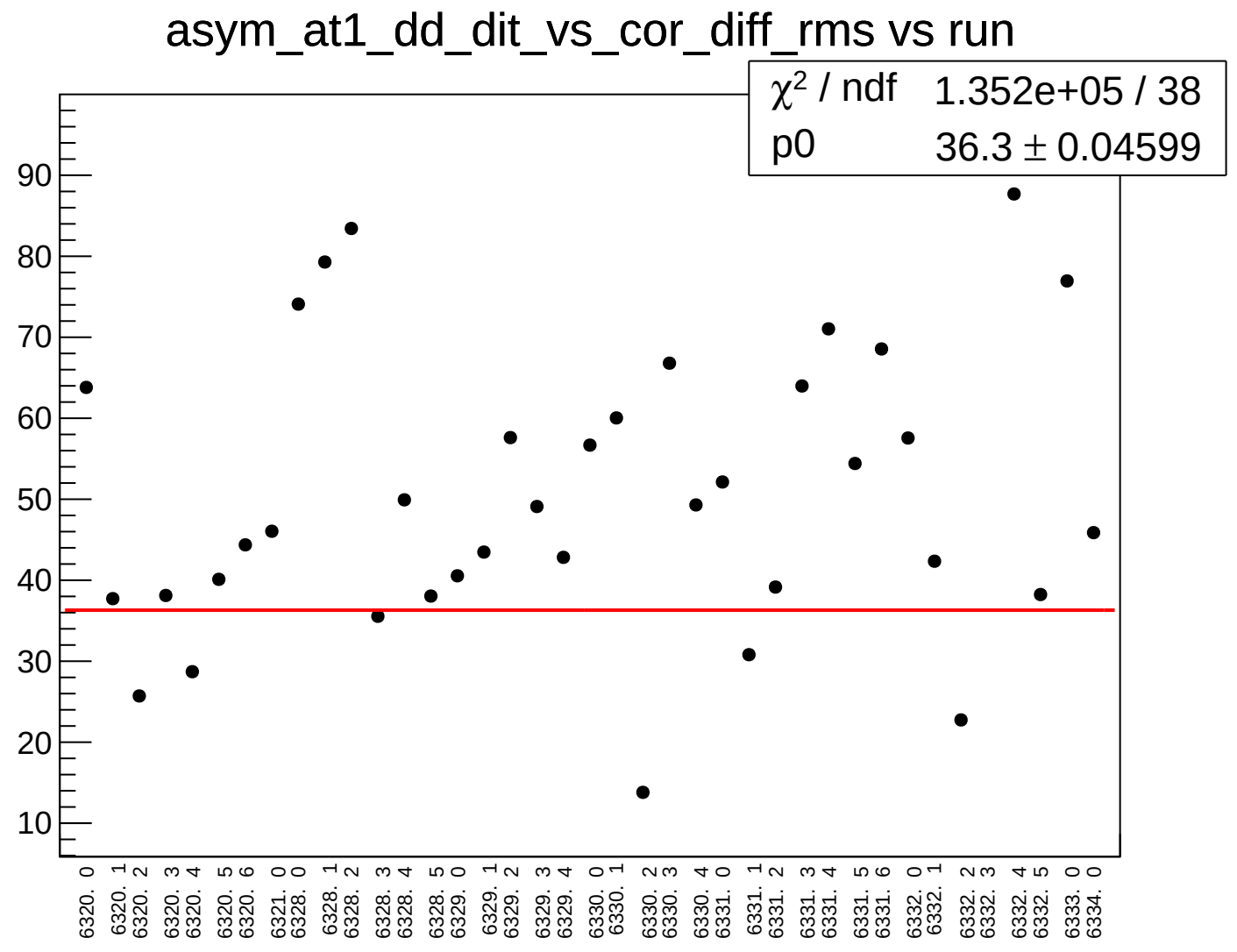

pull1D
Entries 39
Mean −0.009103
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

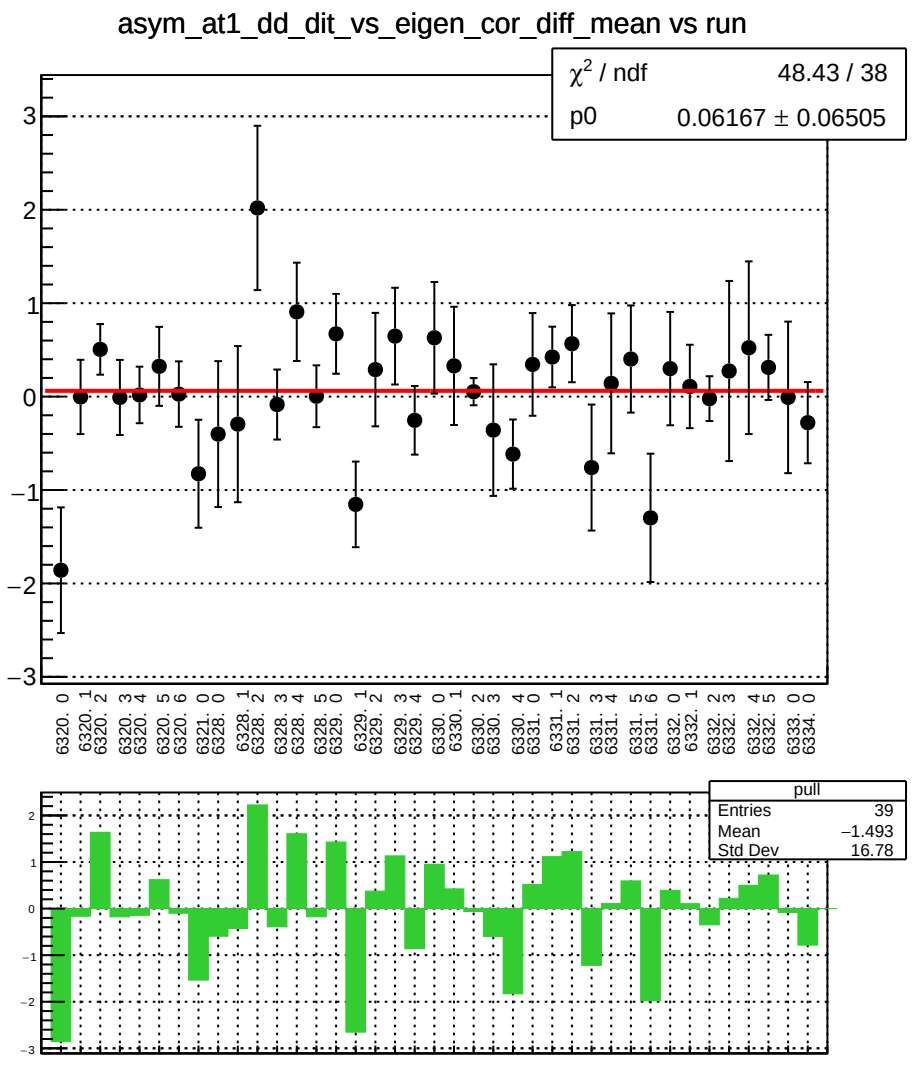

asym_at1_dd_rms vs run
χ² / ndf 449.3 / 38
p0 1886 ± 2.167
2050
2000
1950
1900
1850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

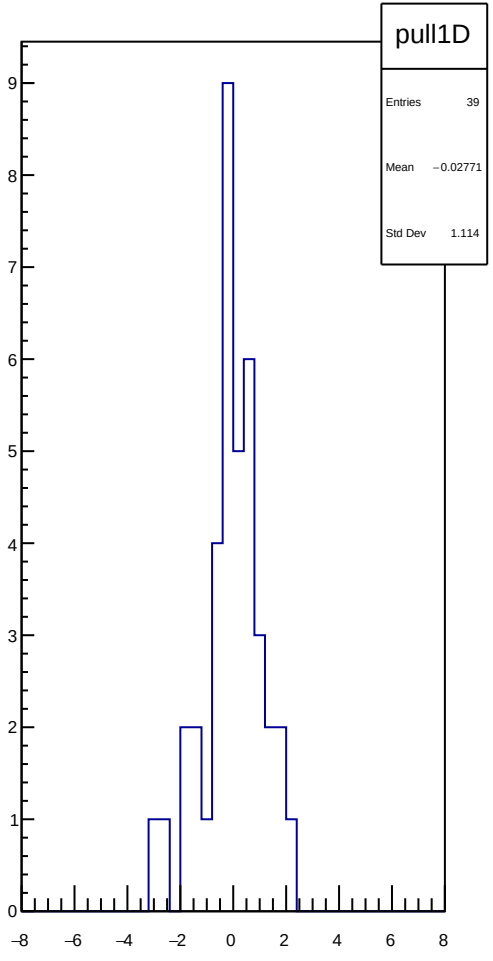

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 36.42 / 38
p0 1.361e−14 ± 3.289e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.66
Std Dev 15.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1633
Std Dev 0.9525
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

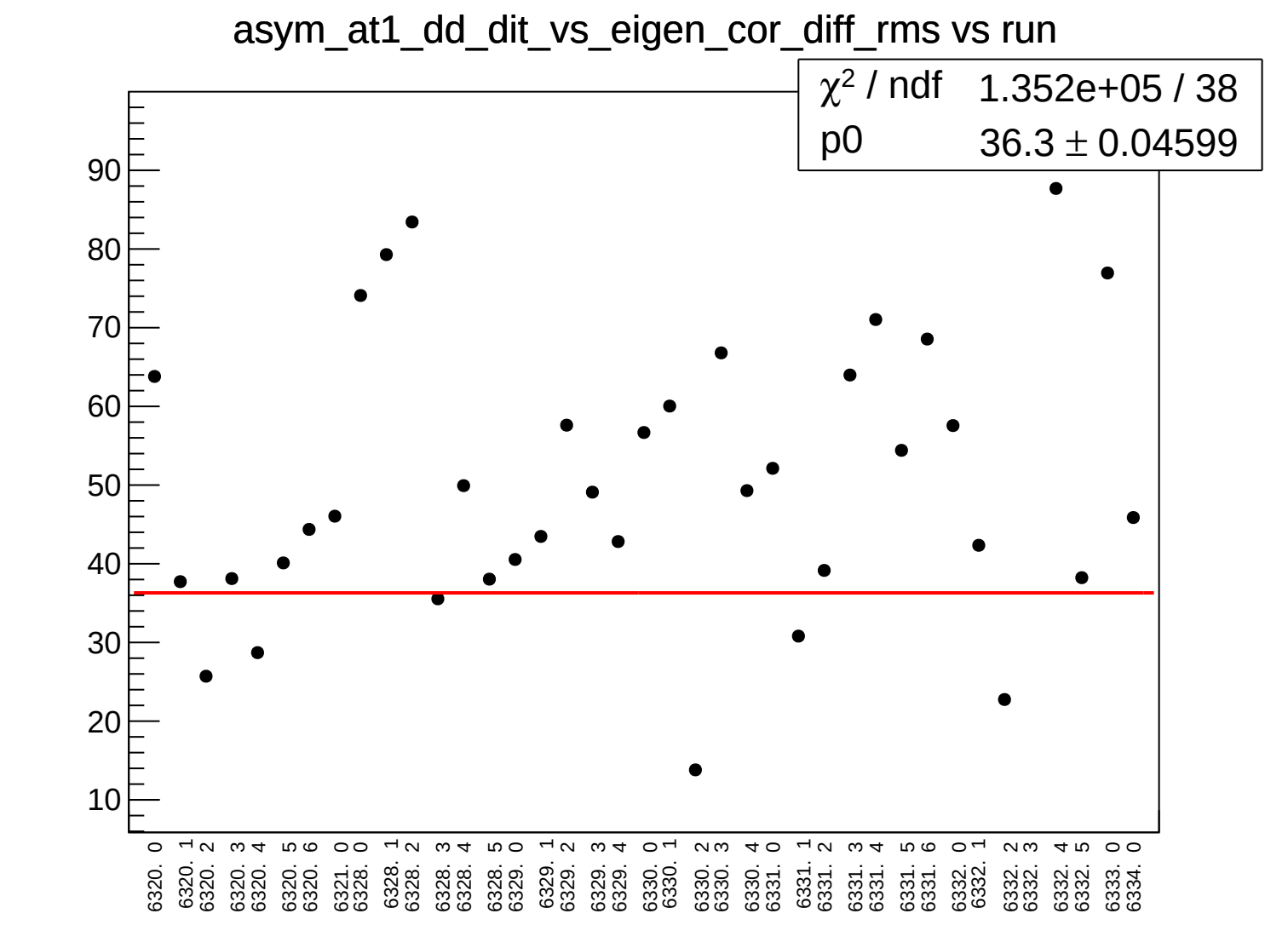

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.809e+05 / 38
p0 9.788e−12 ± 2.325e−14
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

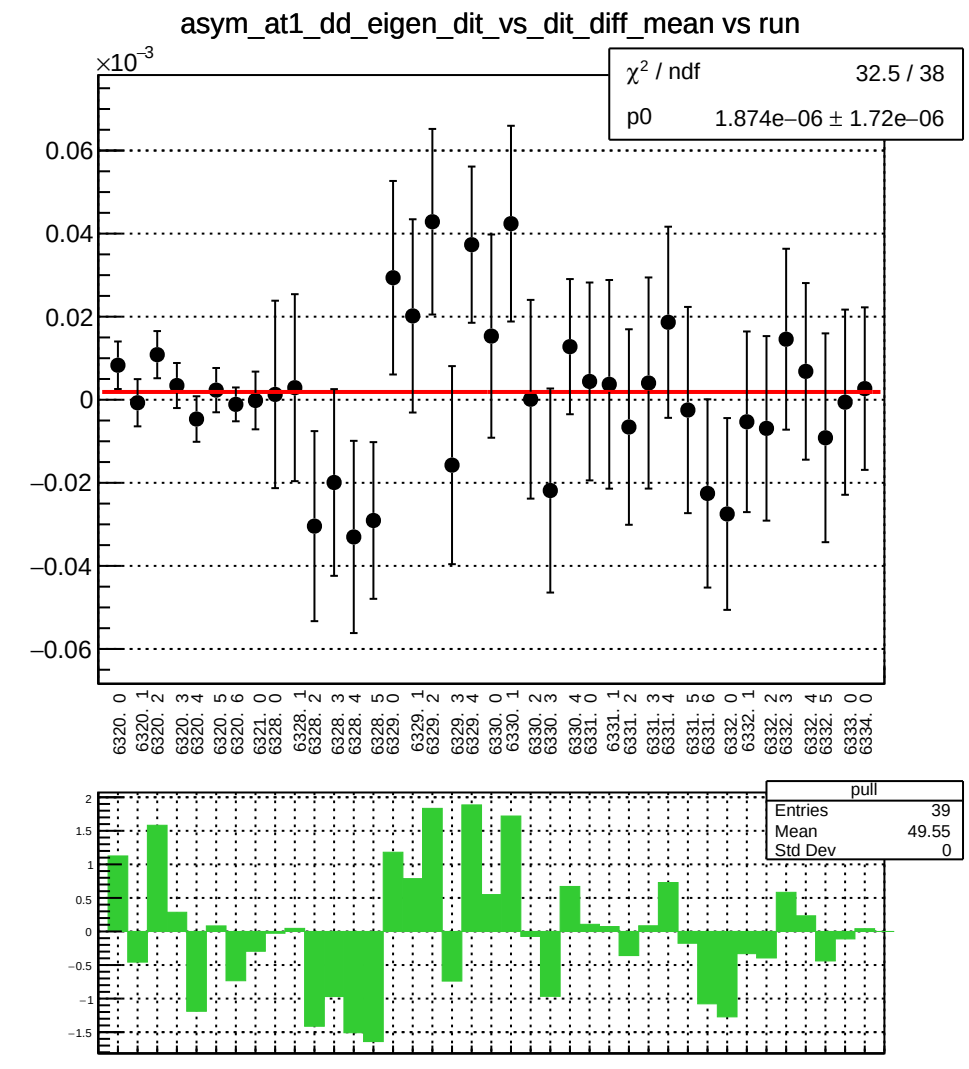

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.43 / 38
p0 0.06167 ± 0.06505
pull
Entries 39
Mean −1.493
Std Dev 16.78
pull1D
Entries 39
Mean −0.02771
Std Dev 1.114

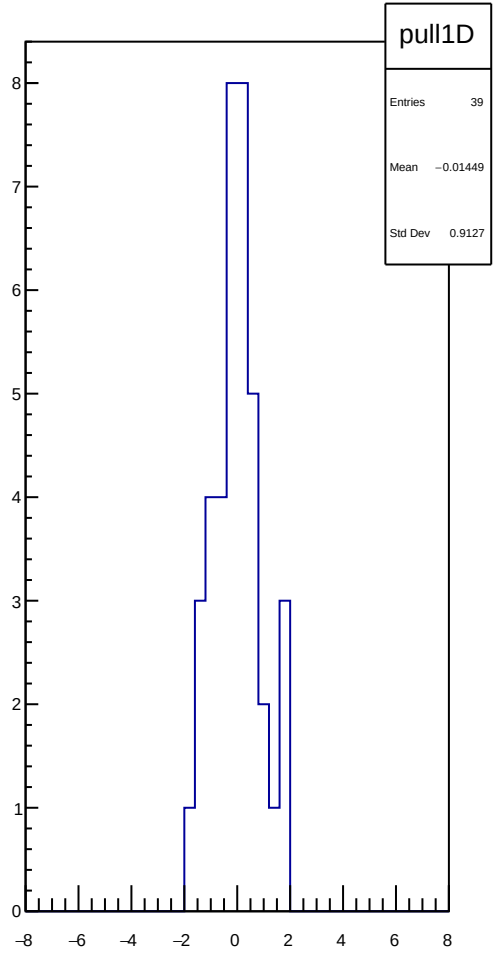

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 38
p0 36.3 ± 0.04599
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

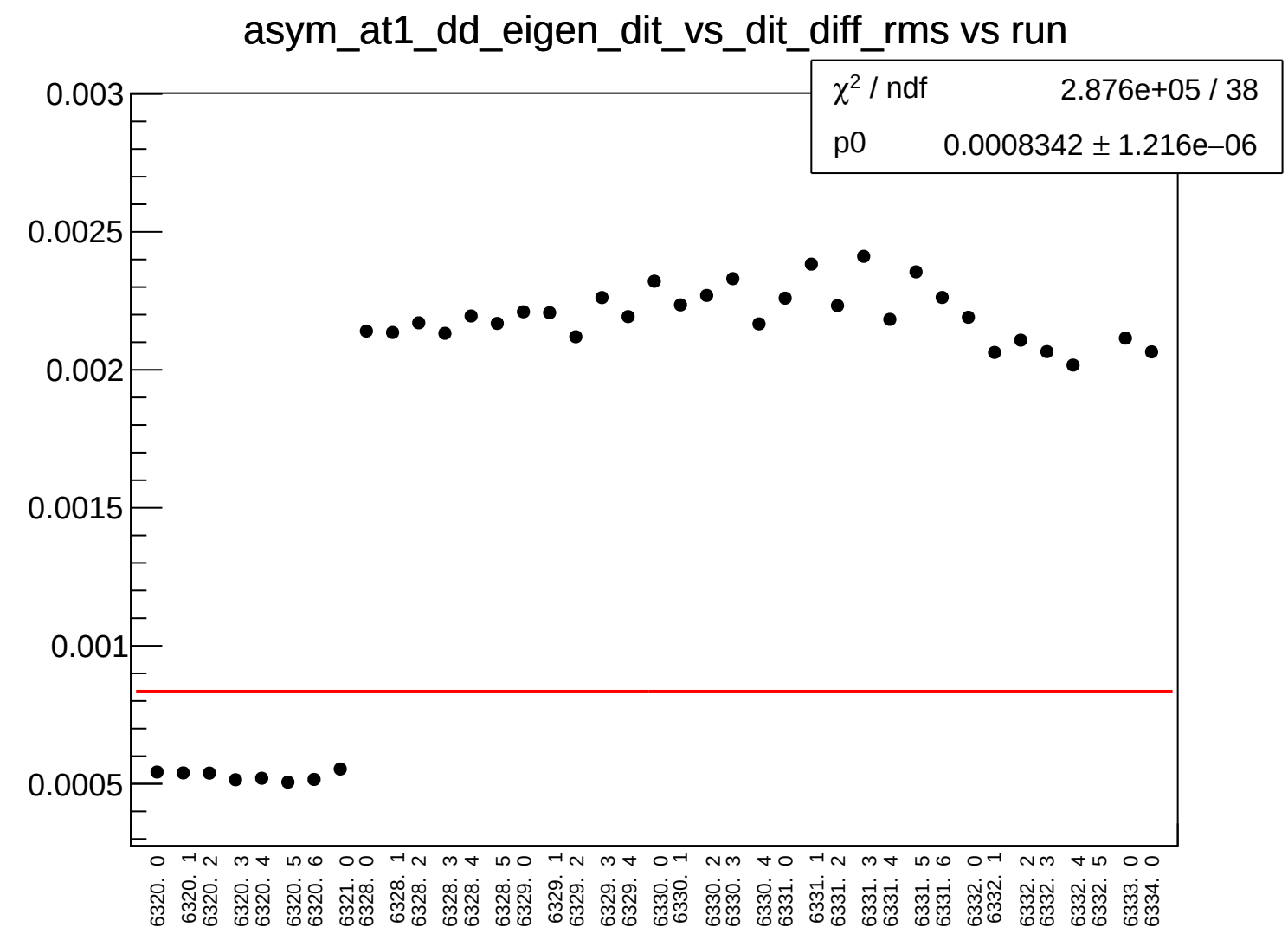

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.43 / 38
p0 0.06167 ± 0.06505
pull
Entries 39
Mean −1.493
Std Dev 16.78

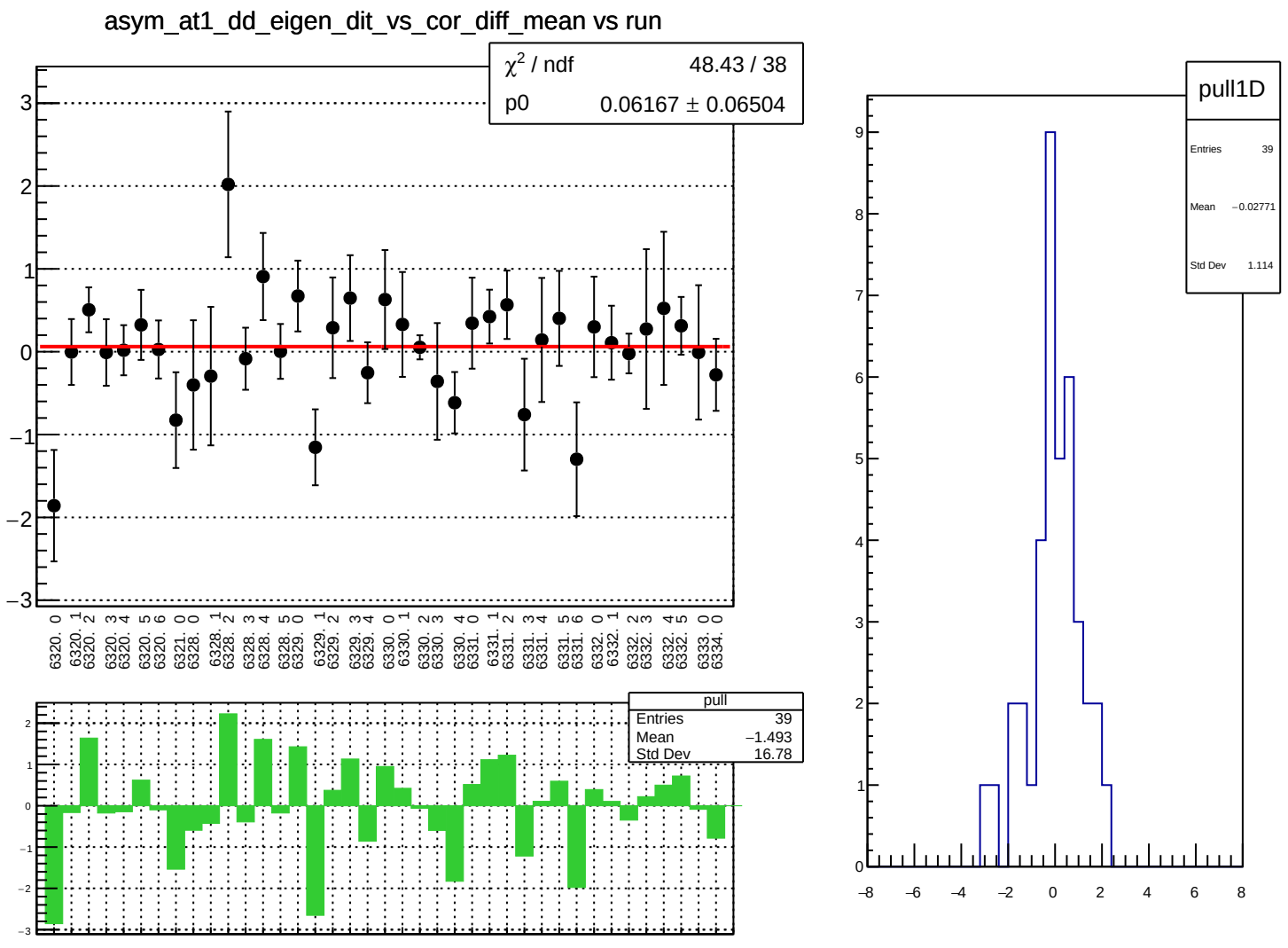

pull1D
Entries 39
Mean −0.02771
Std Dev 1.114

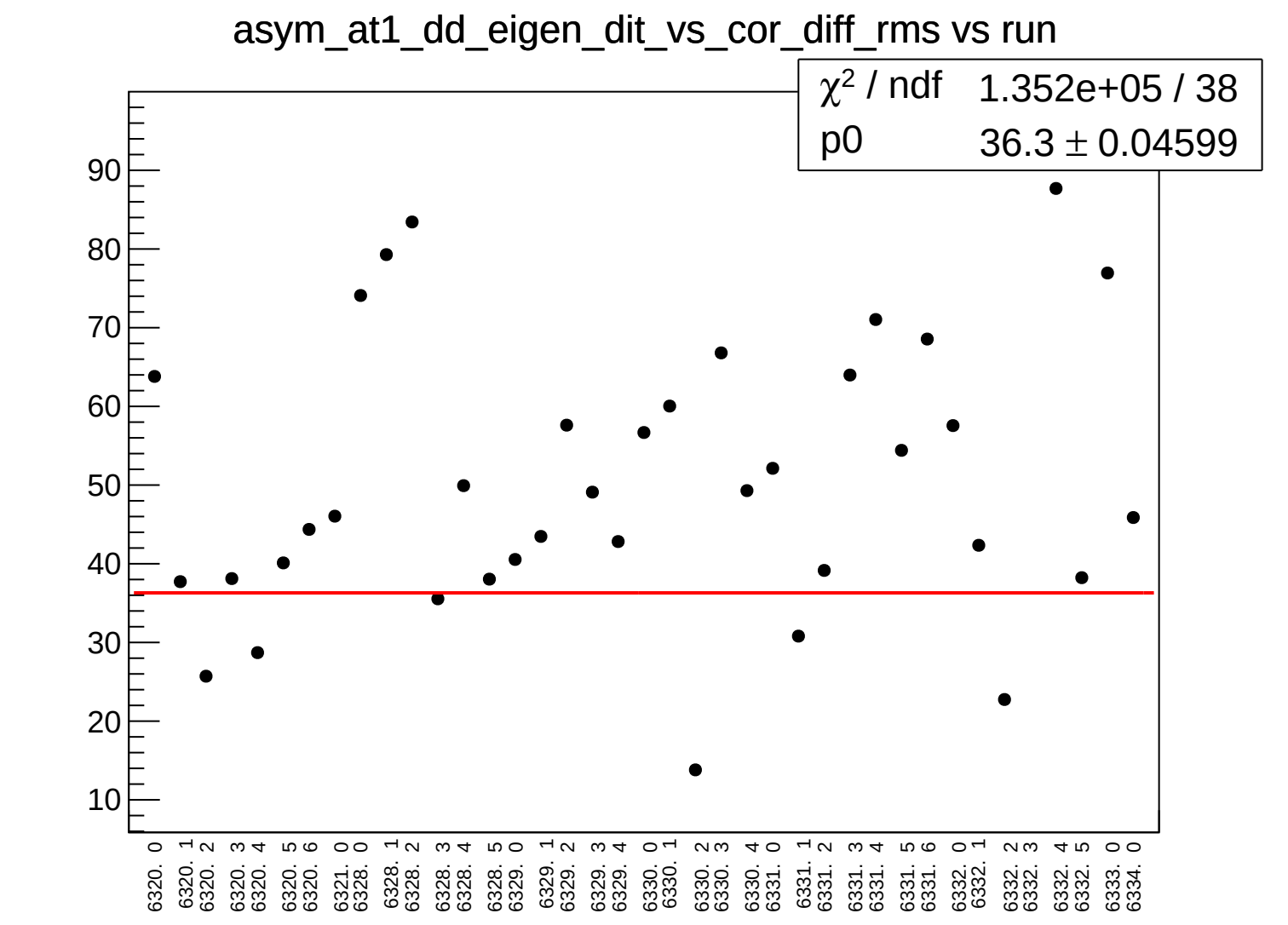

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 38
p0 36.3 ± 0.04599
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

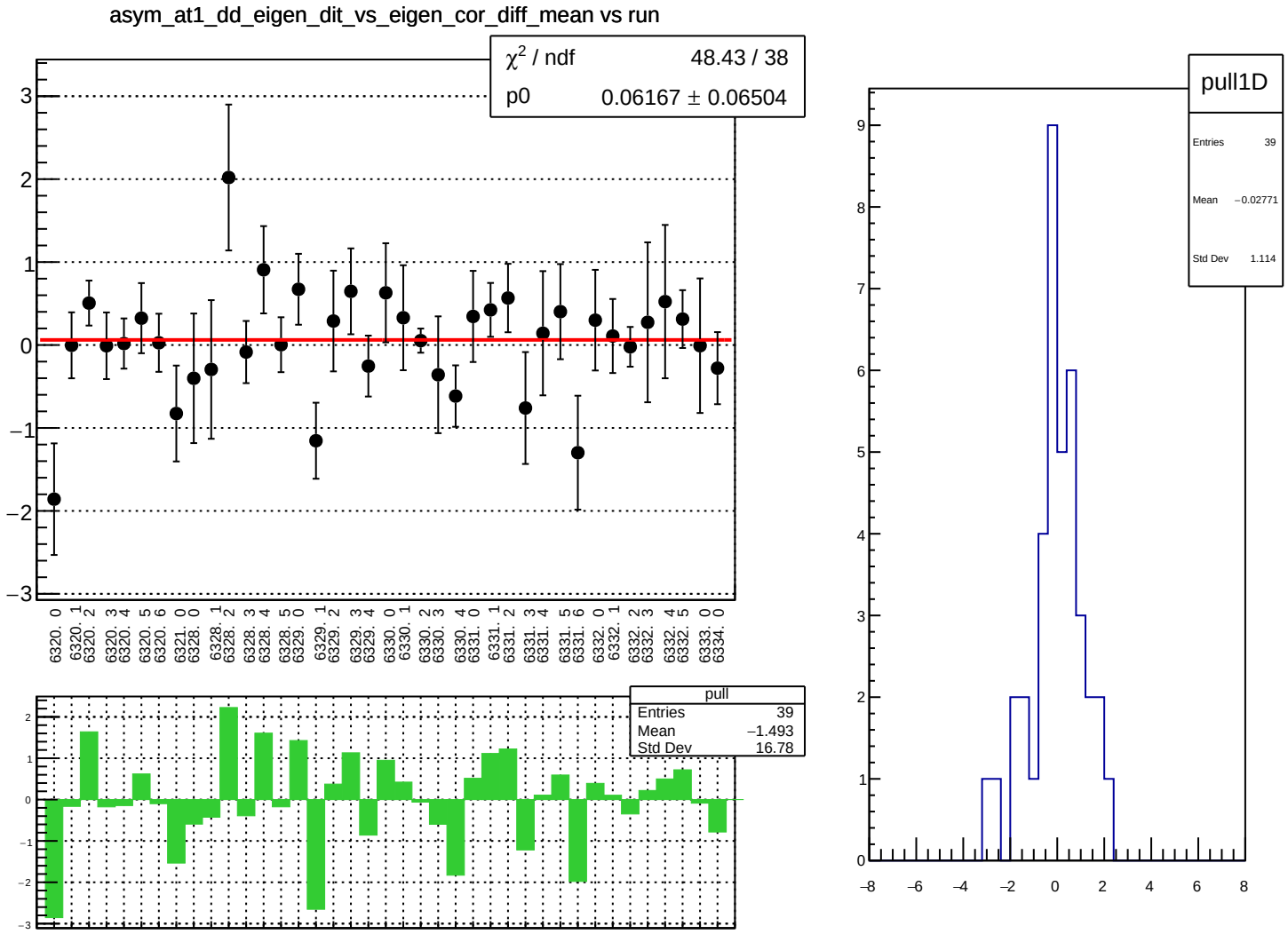

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.5 / 38
p0 1.874e−06 ± 1.72e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

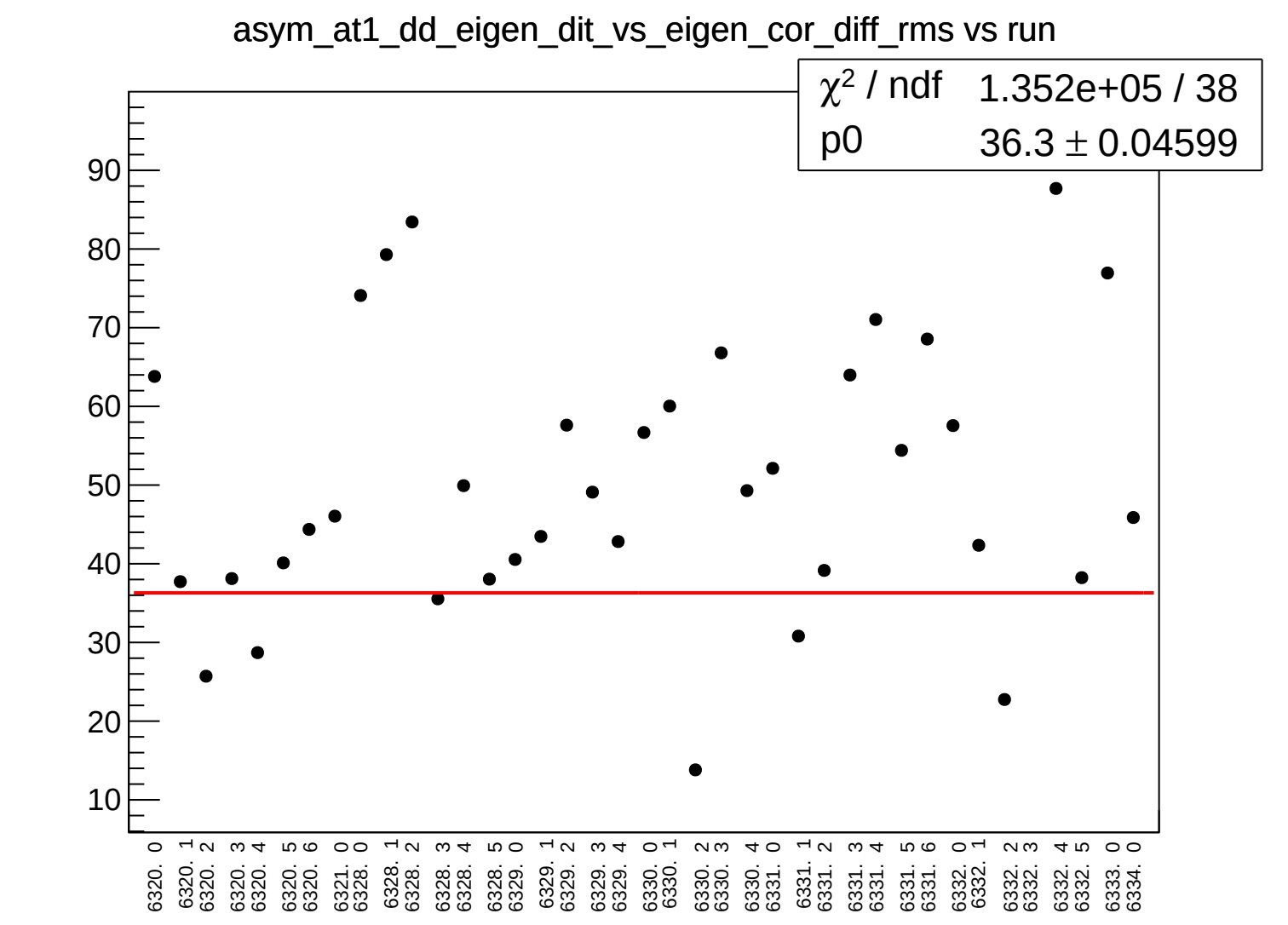

pull1D
Entries 39
Mean −0.01449
Std Dev 0.9127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

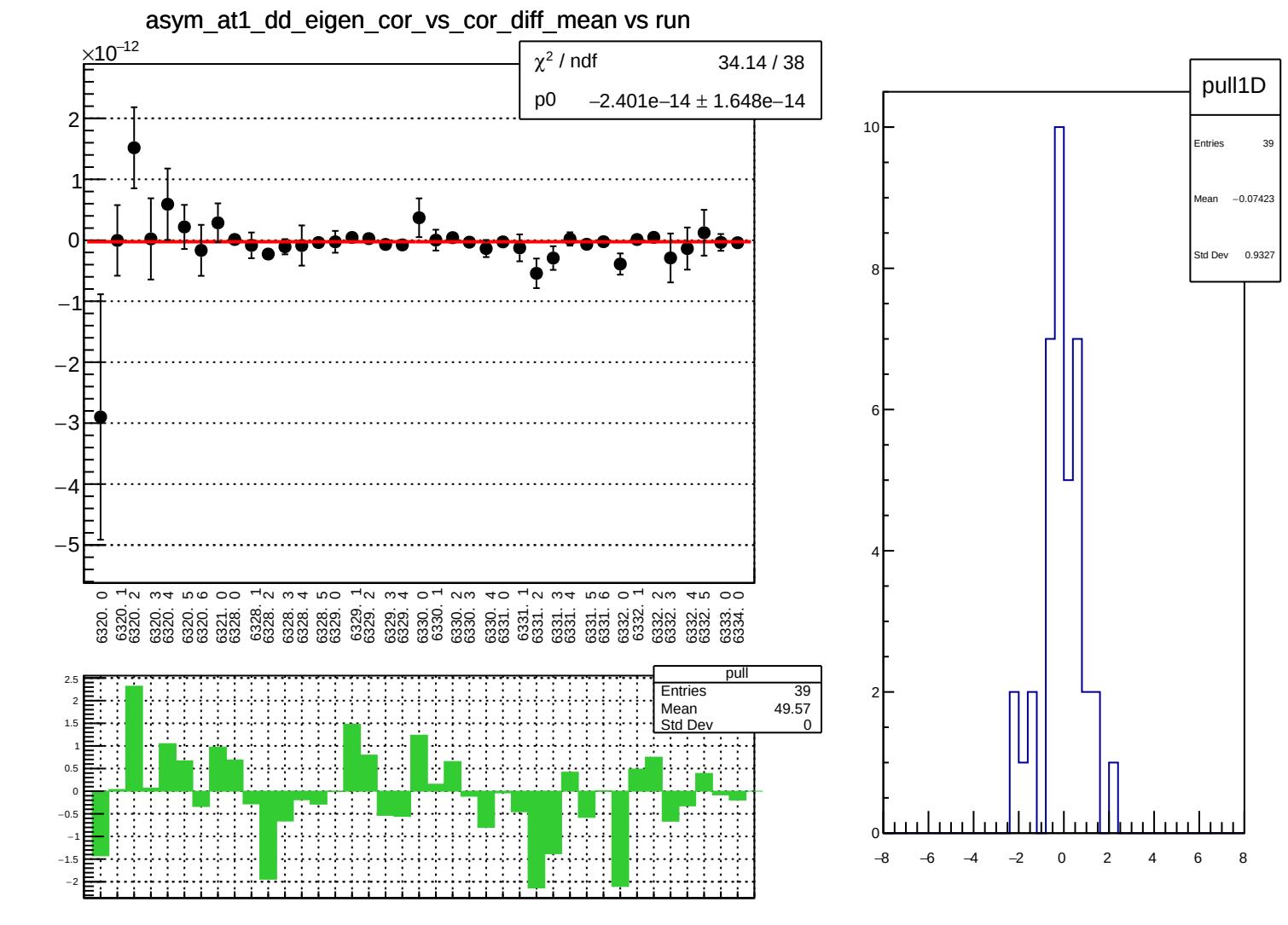

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.876e+05 / 38
p0 0.0008342 ± 1.216e−06
0.003
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

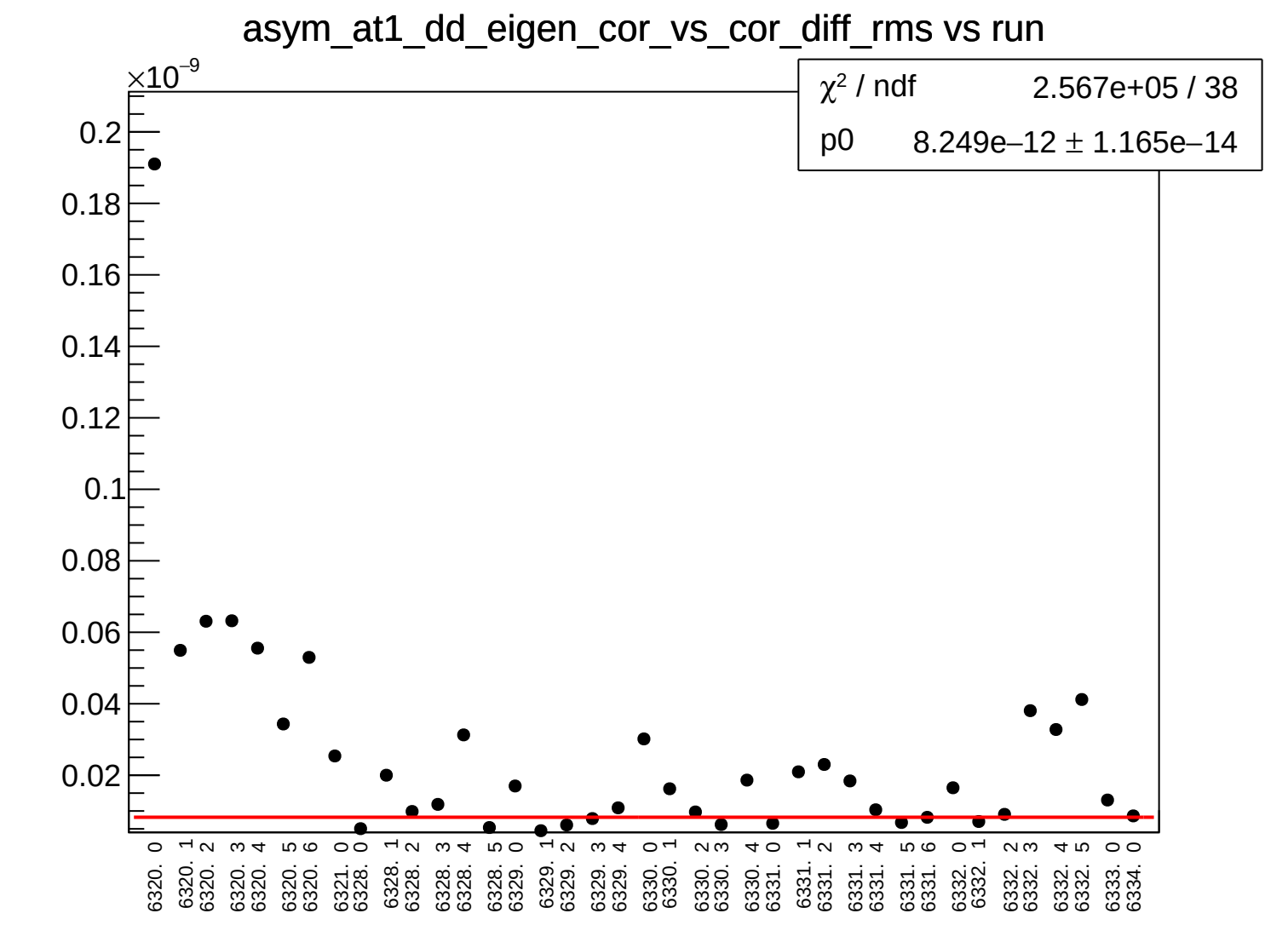

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.43 / 38
p0 0.06167 ± 0.06504
pull
Entries 39
Mean −1.493
Std Dev 16.78
pull1D
Entries 39
Mean −0.02771
Std Dev 1.114

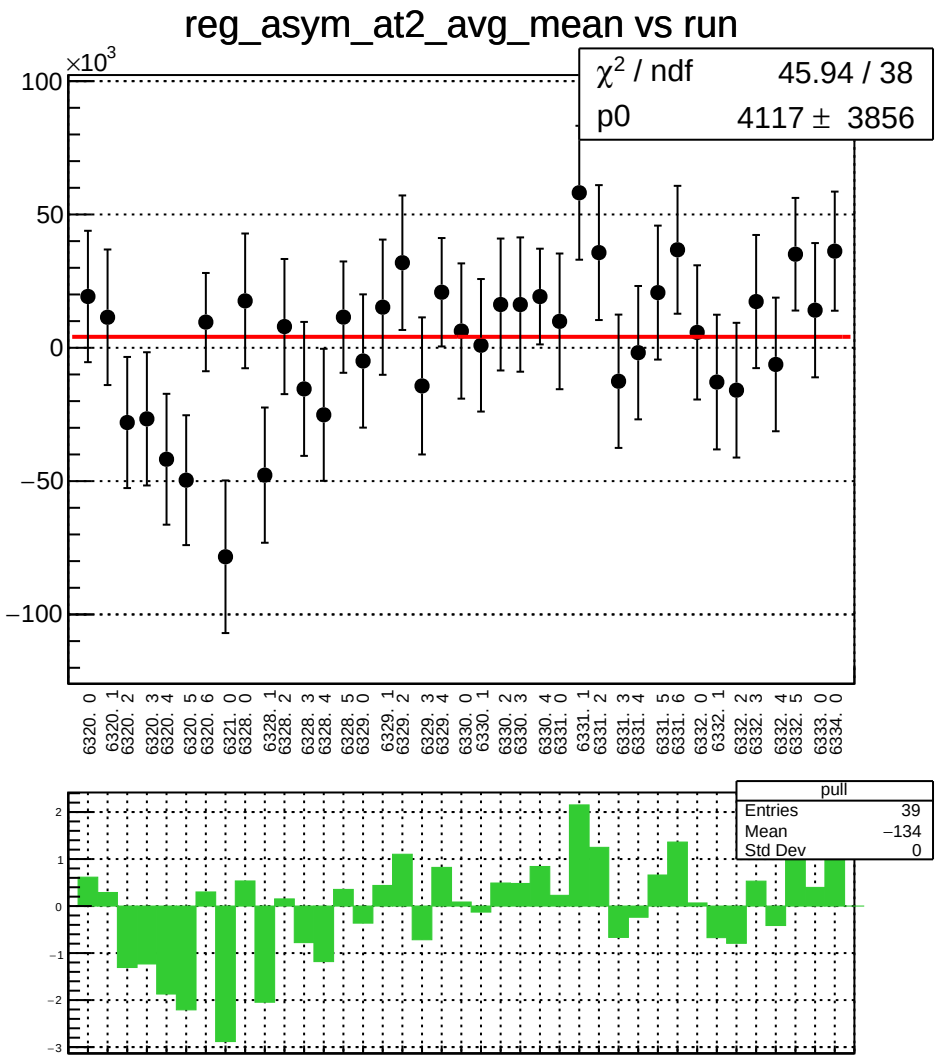

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 38
p0 36.3 ± 0.04599
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

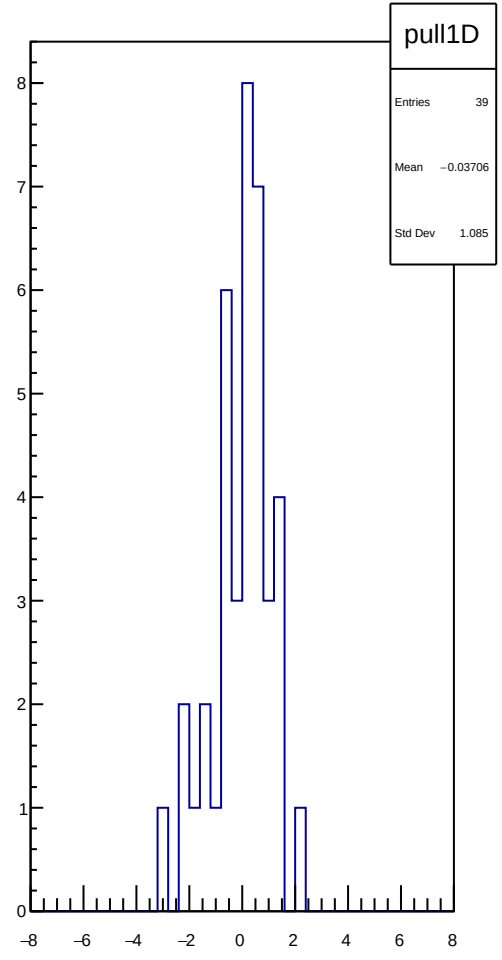

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.43 / 38
p0 0.06167 ± 0.06504
pull
Entries 39
Mean −1.493
Std Dev 16.78
pull1D
Entries 39
Mean −0.02771
Std Dev 1.114

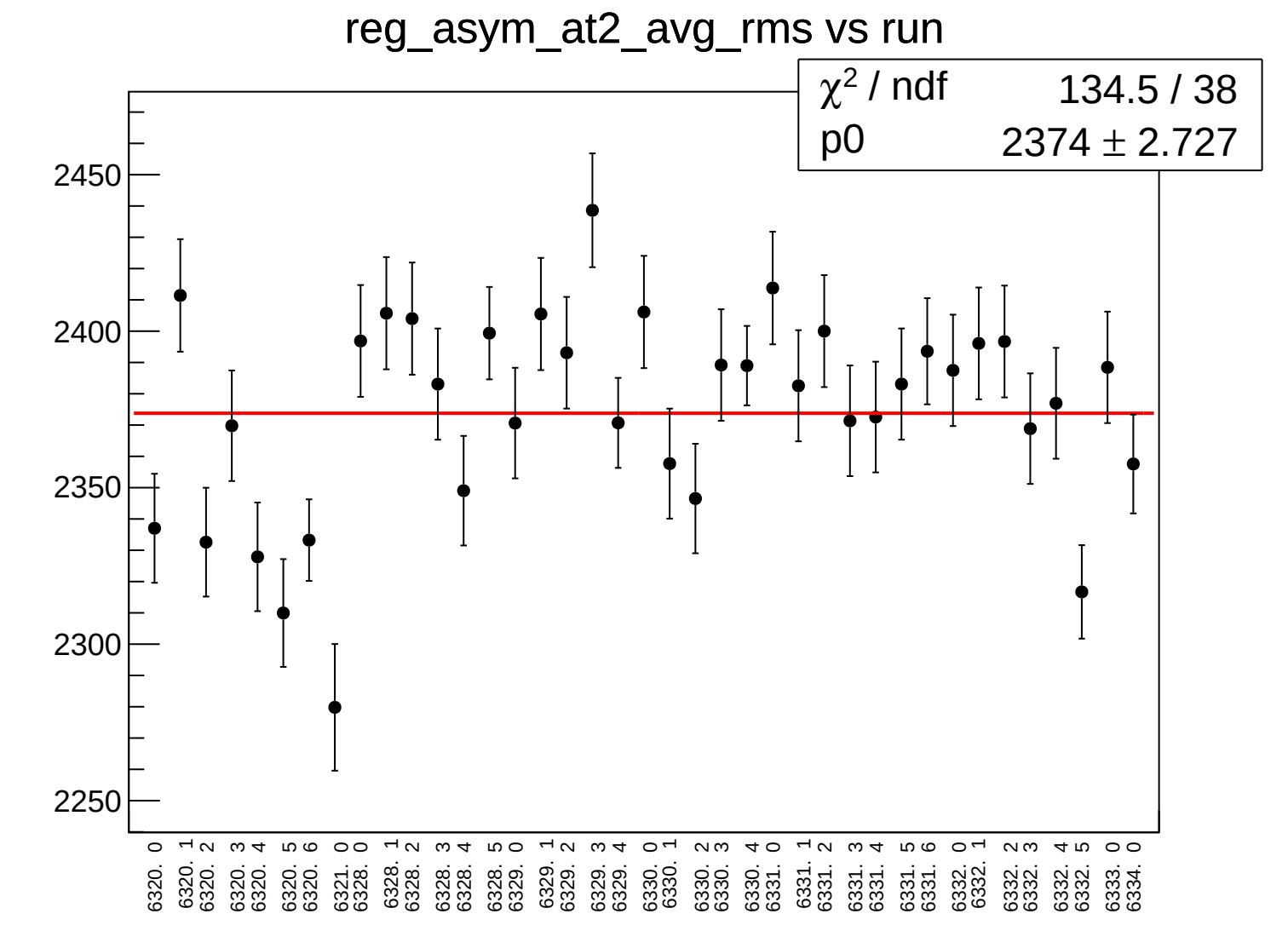

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 38
p0 36.3 ± 0.04599
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

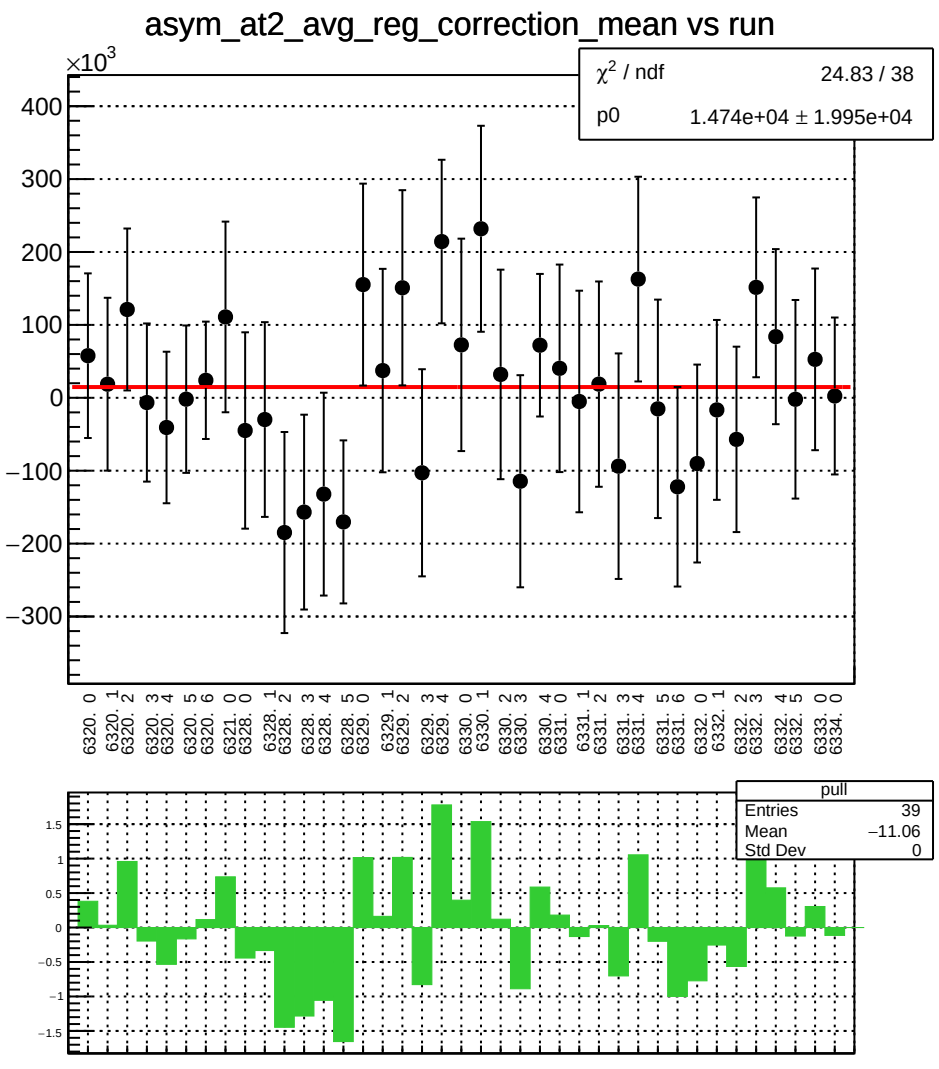

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.14 / 38
p0 −2.401e−14 ± 1.648e−14
pull
Entries 39
Mean 49.57
Std Dev 0
pull1D
Entries 39
Mean −0.07423
Std Dev 0.9327

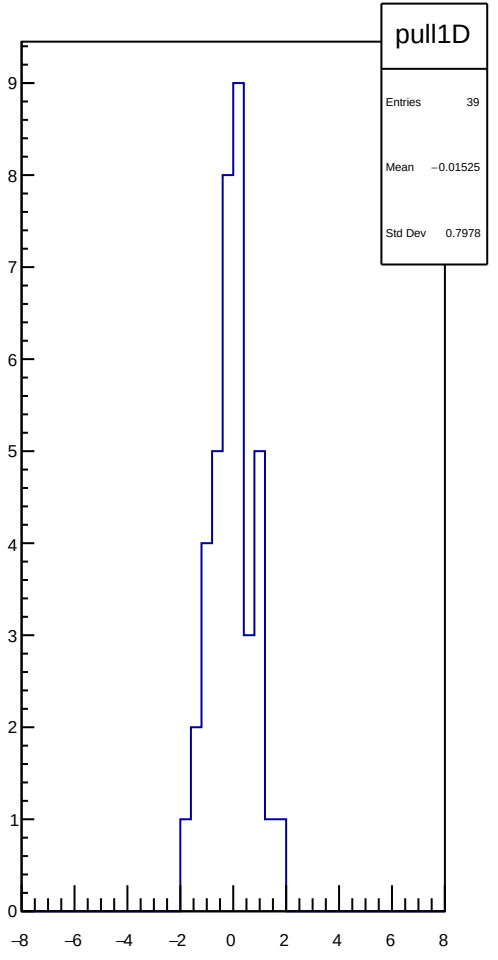

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.567e+05 / 38
p0 8.249e−12 ± 1.165e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

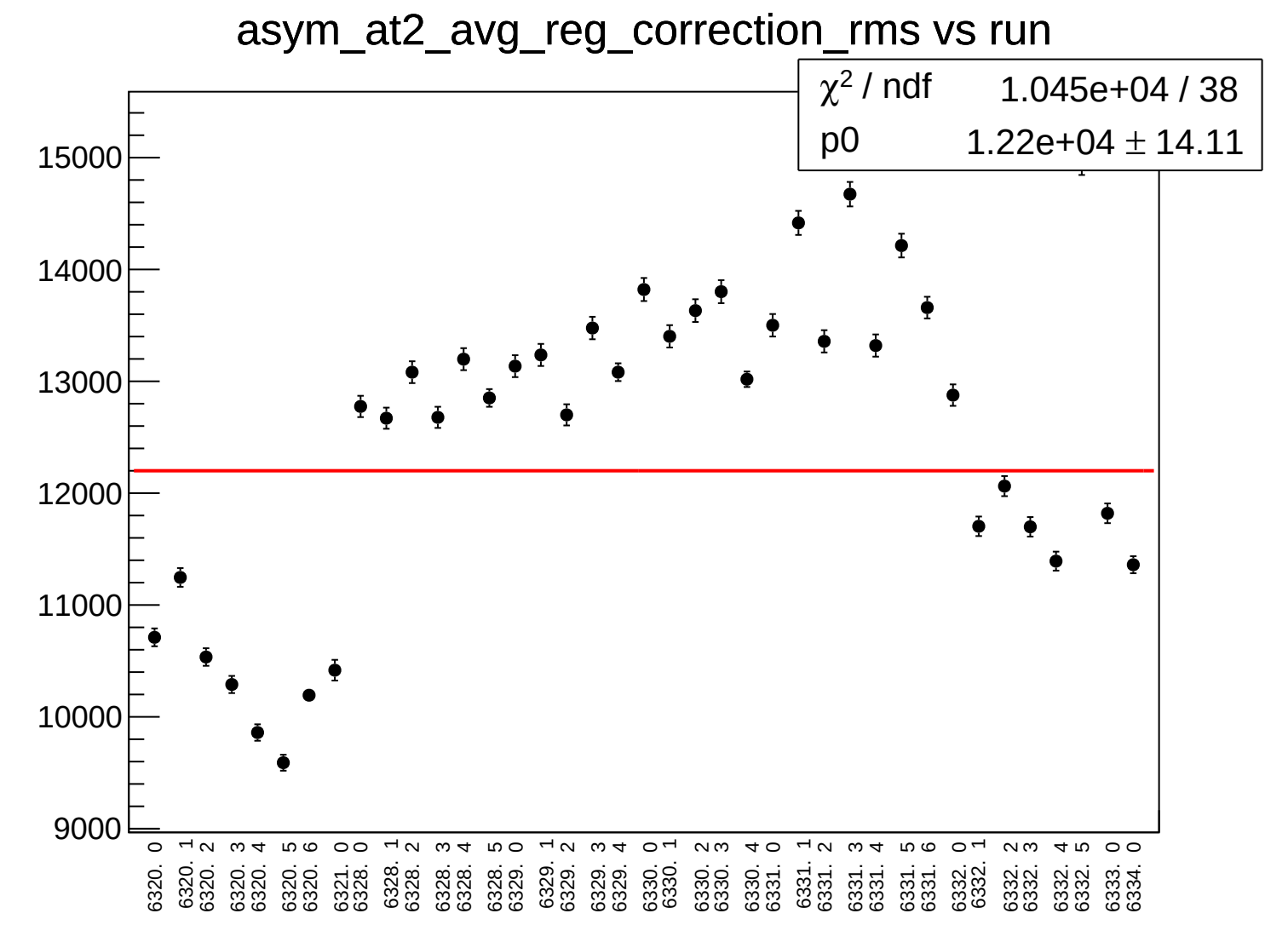

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 45.94 / 38
p0 4117 ± 3856
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −134
Std Dev 0
2
1
0
−1
−2
−3

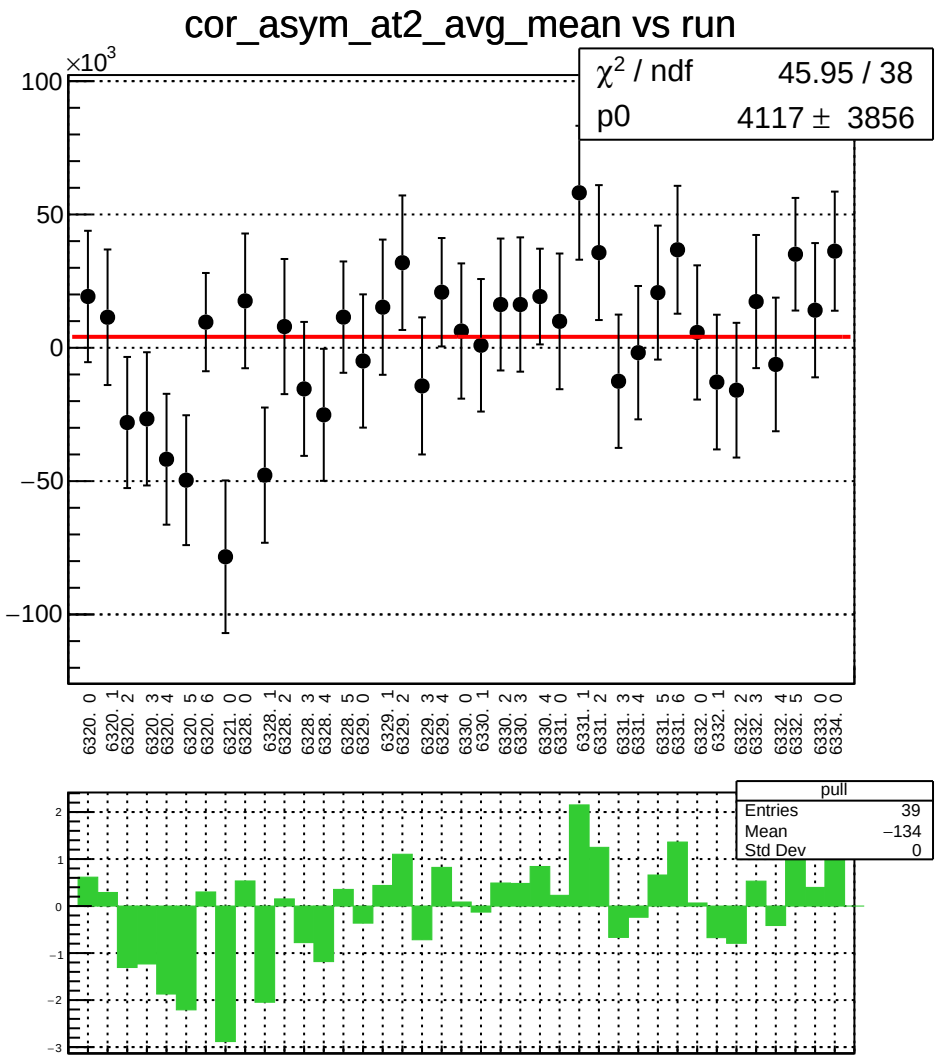

pull1D
Entries 39
Mean −0.03706
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

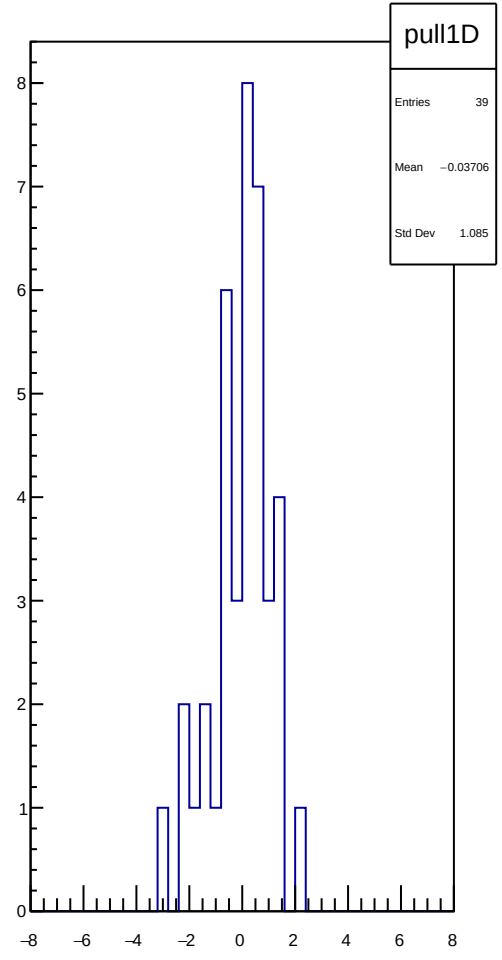

reg_asym_at2_avg_rms vs run
χ² / ndf 134.5 / 38
p0 2374 ± 2.727
2450
2400
2350
2300
2250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

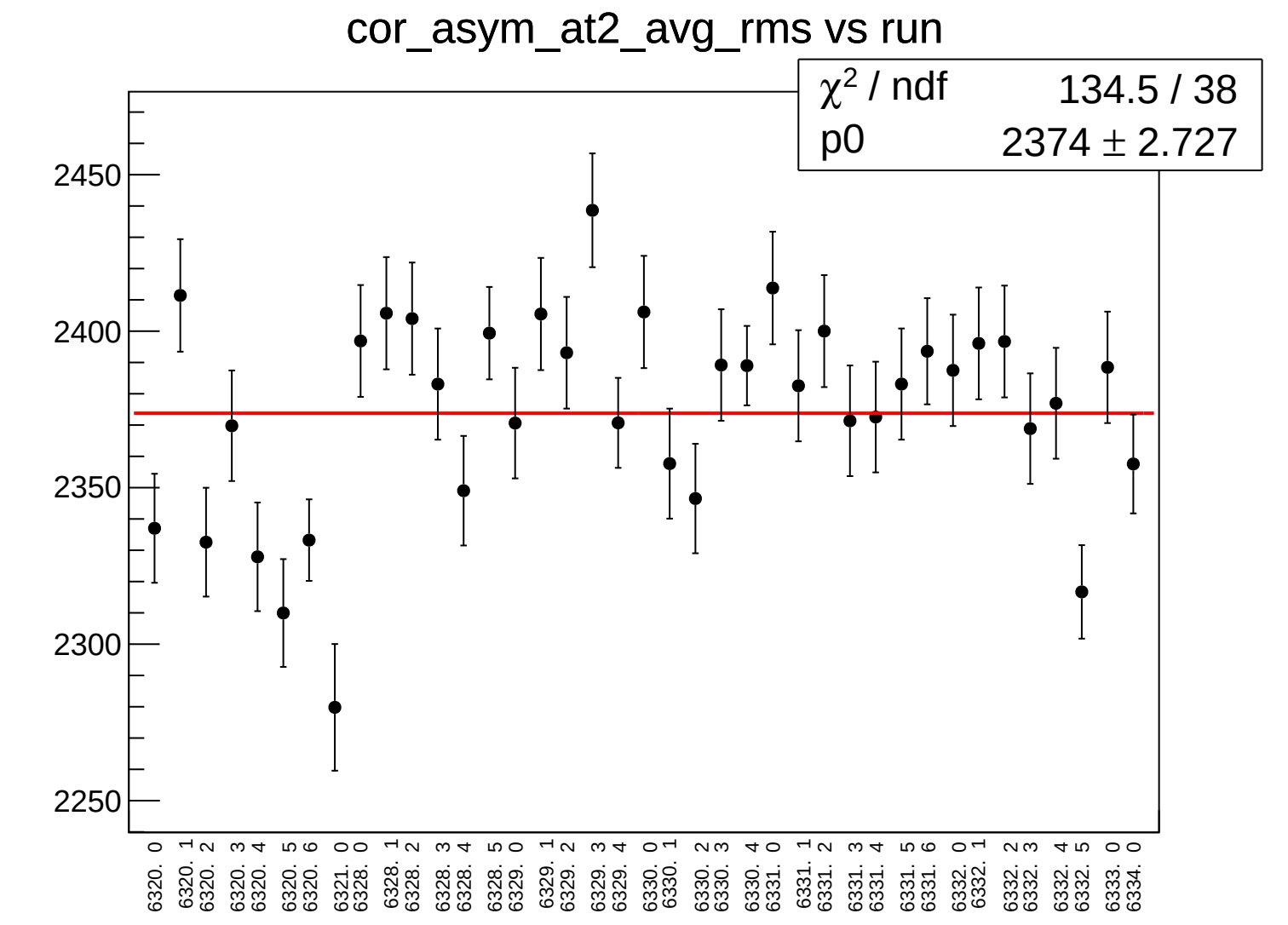

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.474e+04 ± 1.995e+04
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

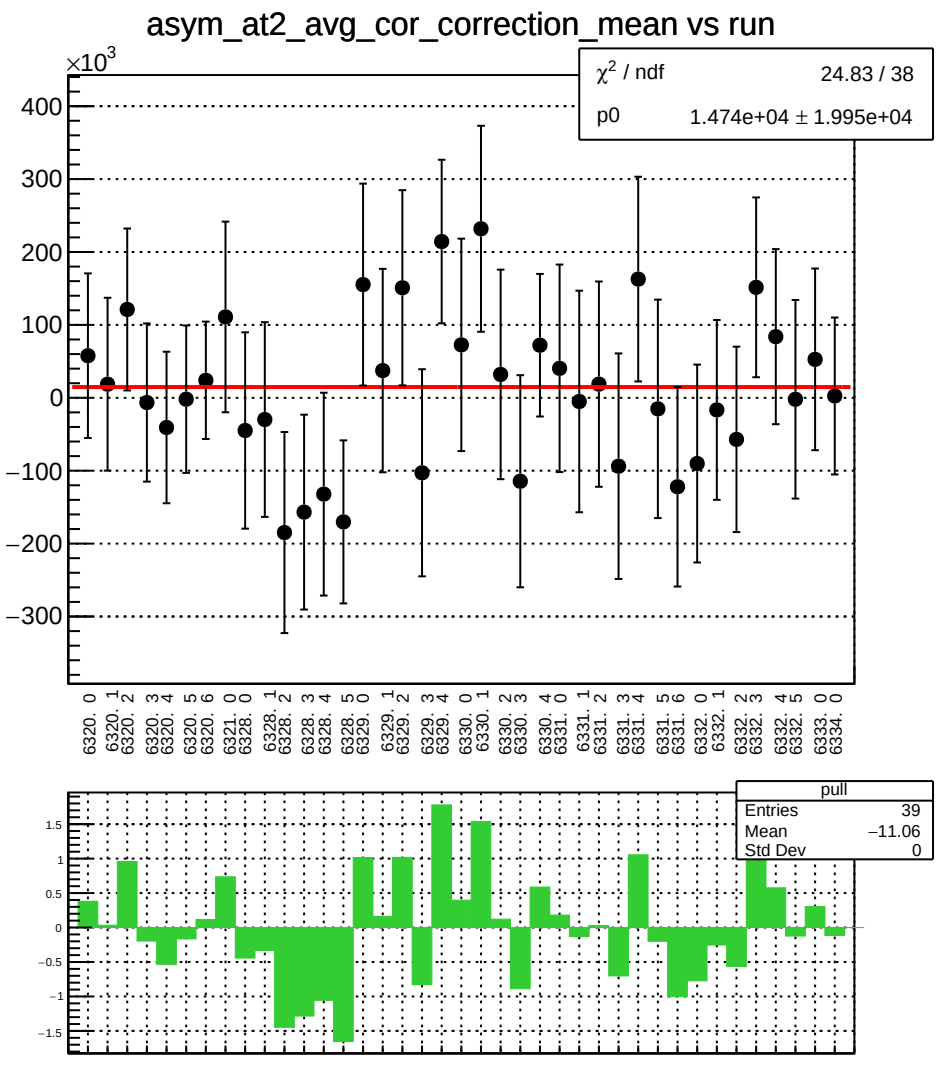

pull1D
Entries 39
Mean −0.01525
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

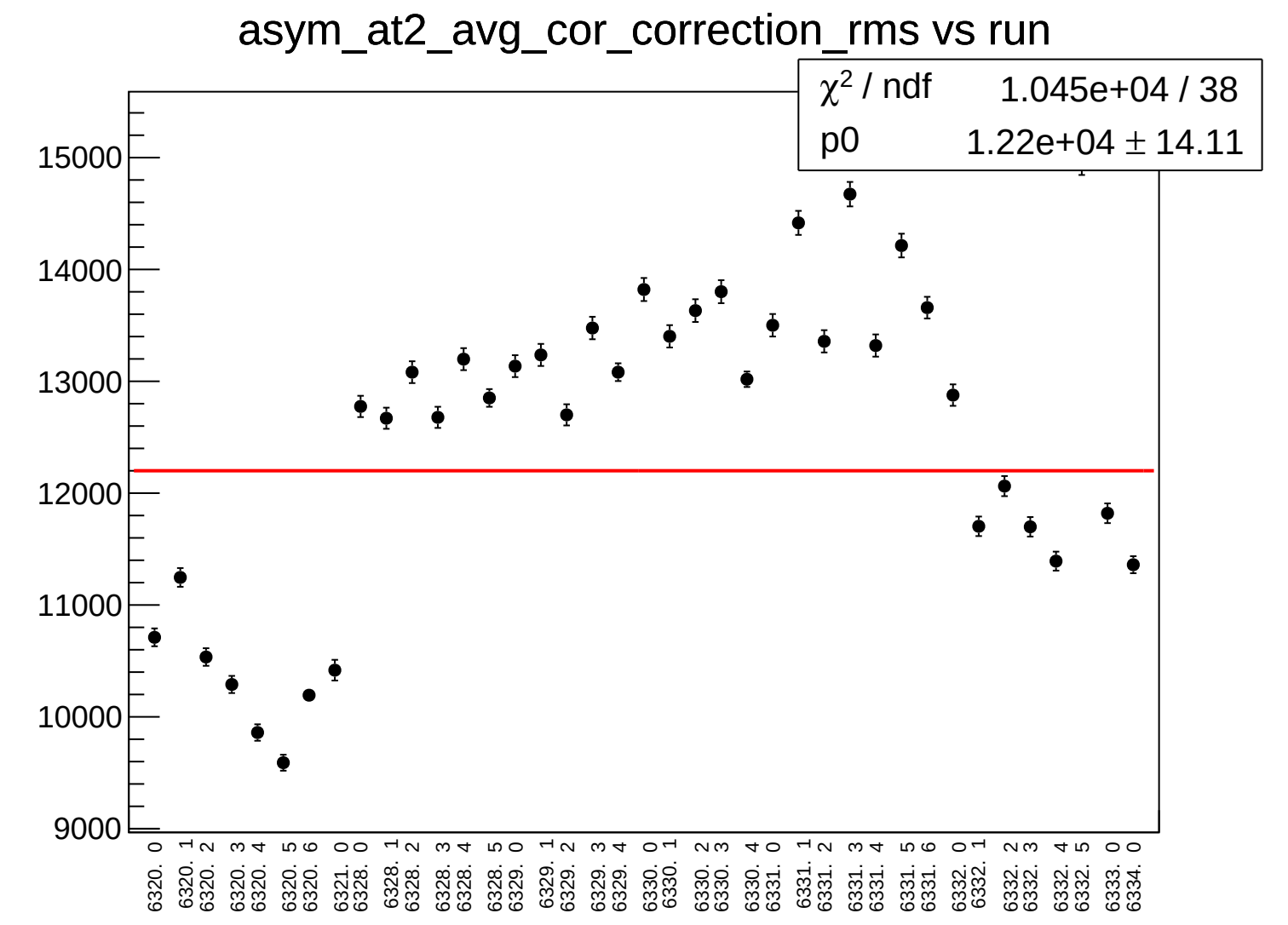

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.045e+04 / 38
p0 1.22e+04 ± 14.11
15000
14000
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

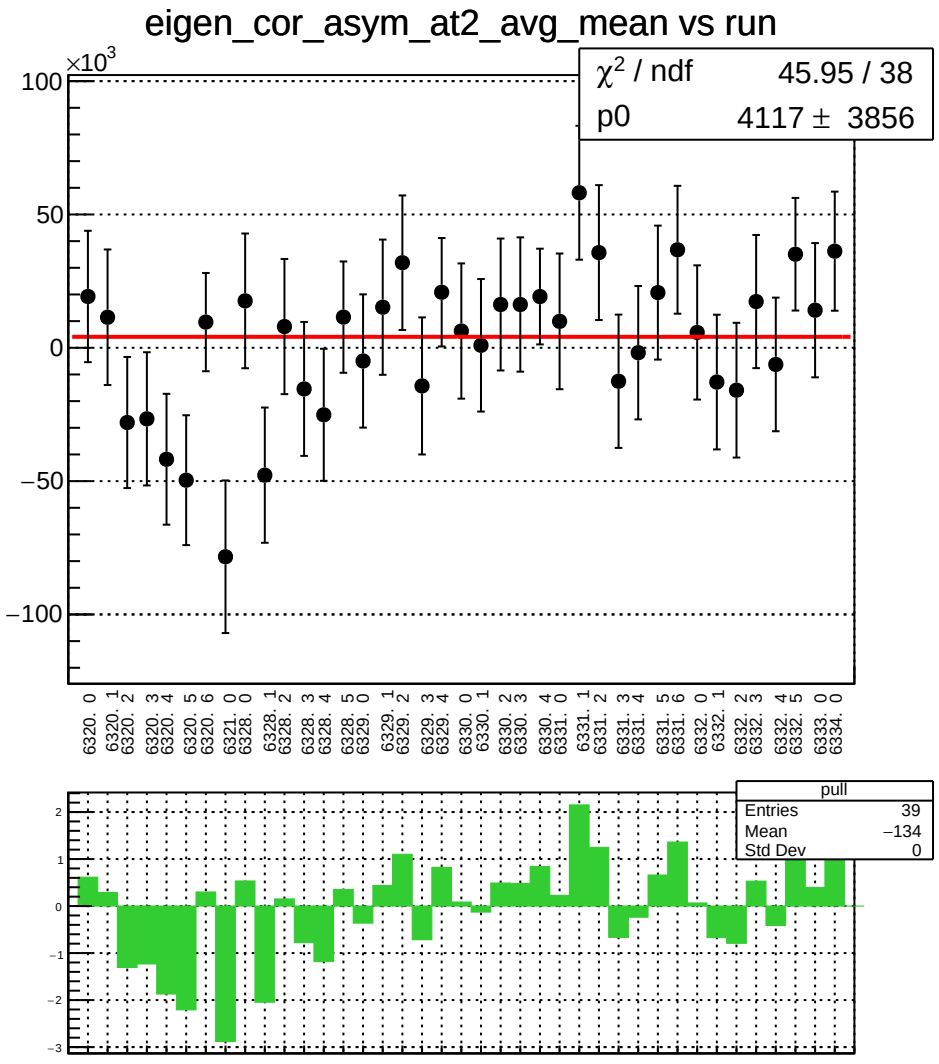

cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 45.95 / 38
p0 4117 ± 3856
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −134
Std Dev 0
2
1
0
−1
−2
−3

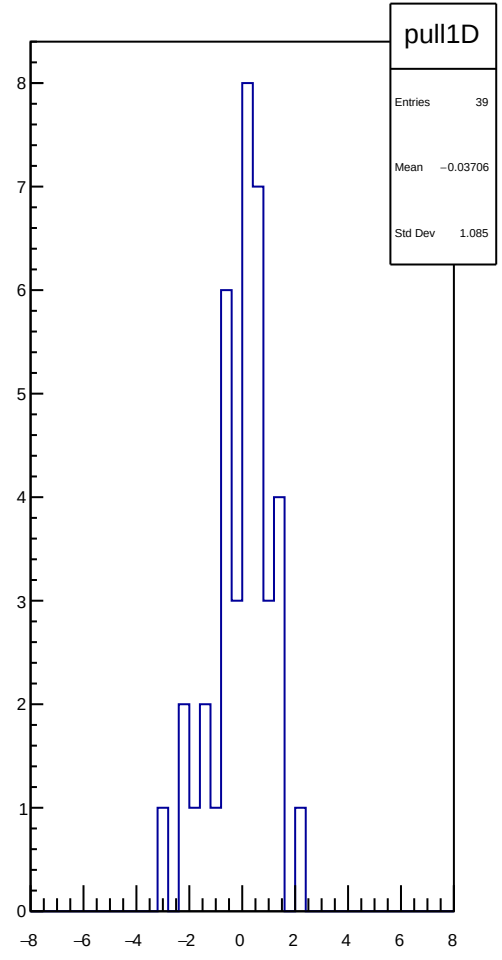

pull1D
Entries 39
Mean −0.03706
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

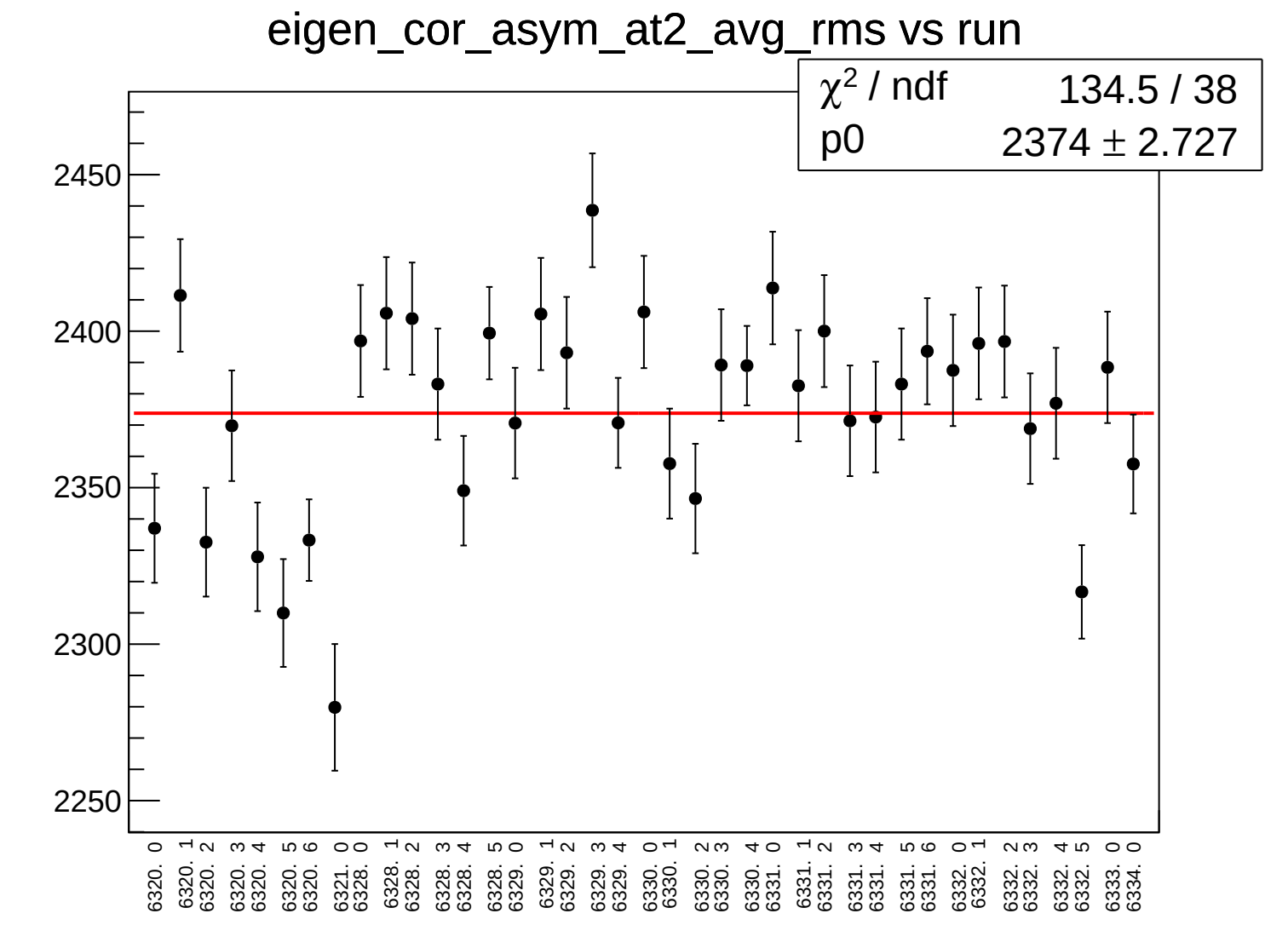

cor_asym_at2_avg_rms vs run
χ² / ndf 134.5 / 38
p0 2374 ± 2.727
2450
2400
2350
2300
2250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

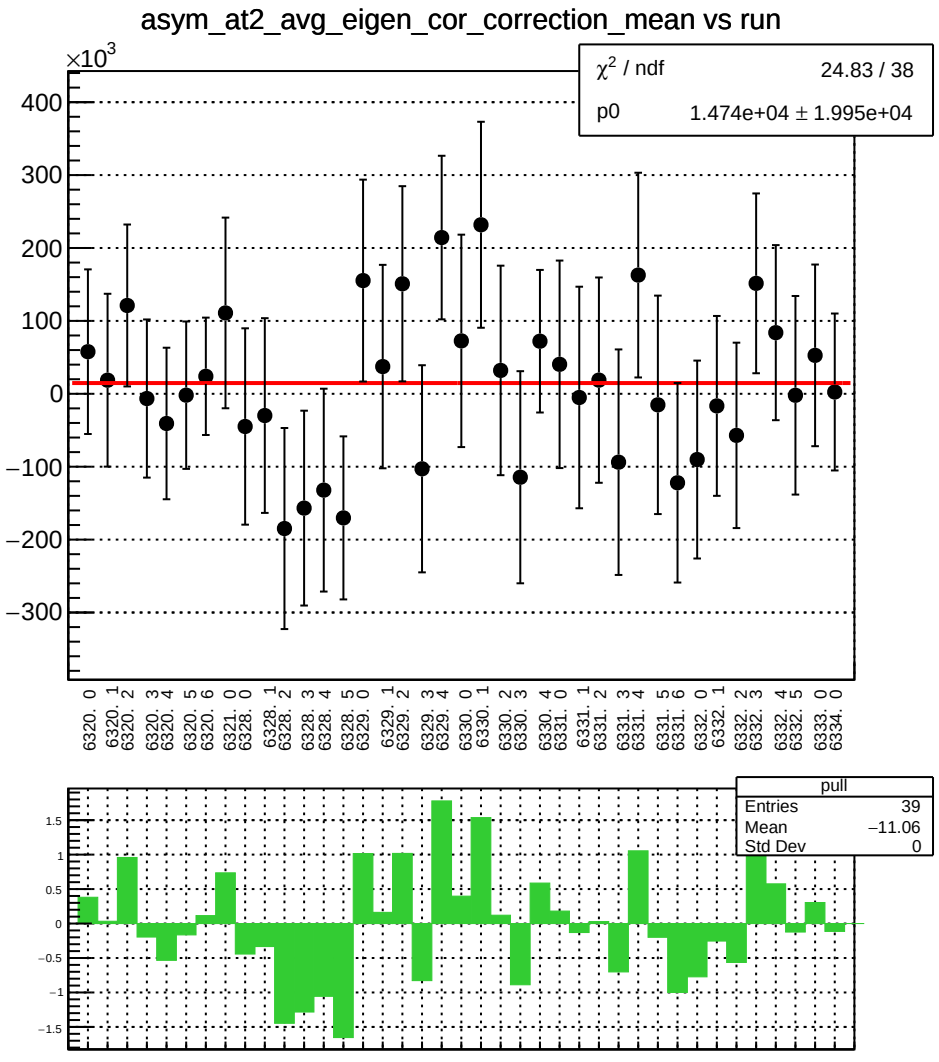

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.474e+04 ± 1.995e+04
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01525
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

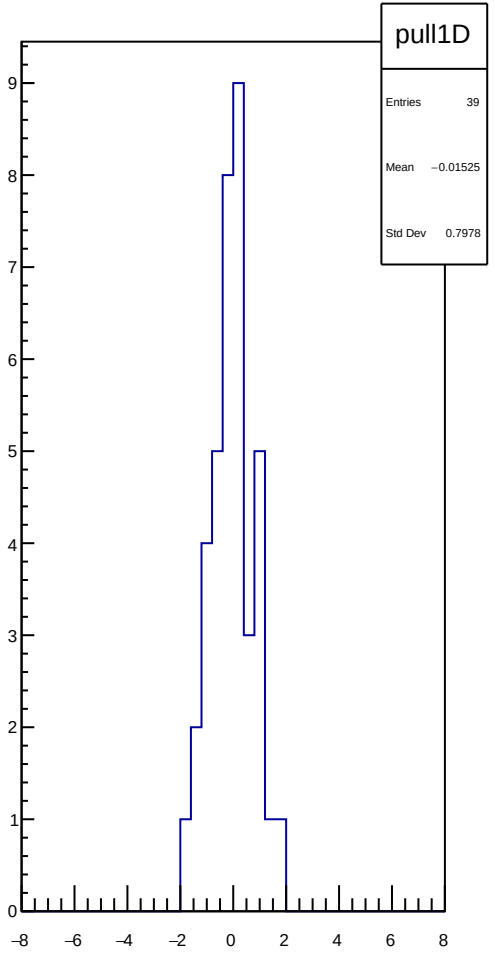

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 38
p0 1.22e+04 ± 14.11
15000
14000
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

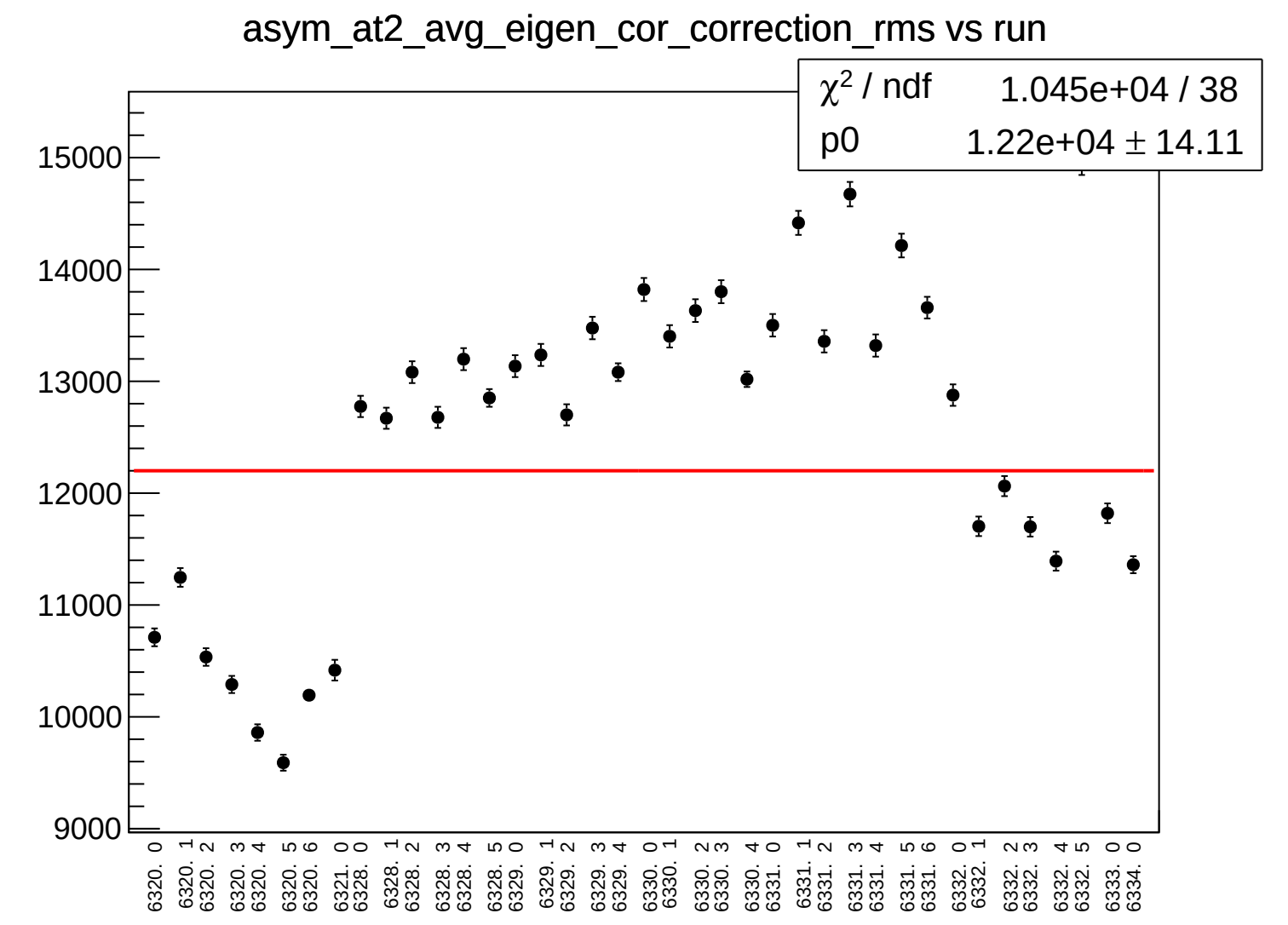

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 45.95 / 38
p0 4117 ± 3856
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −134
Std Dev 0
2
1
0
−1
−2
−3

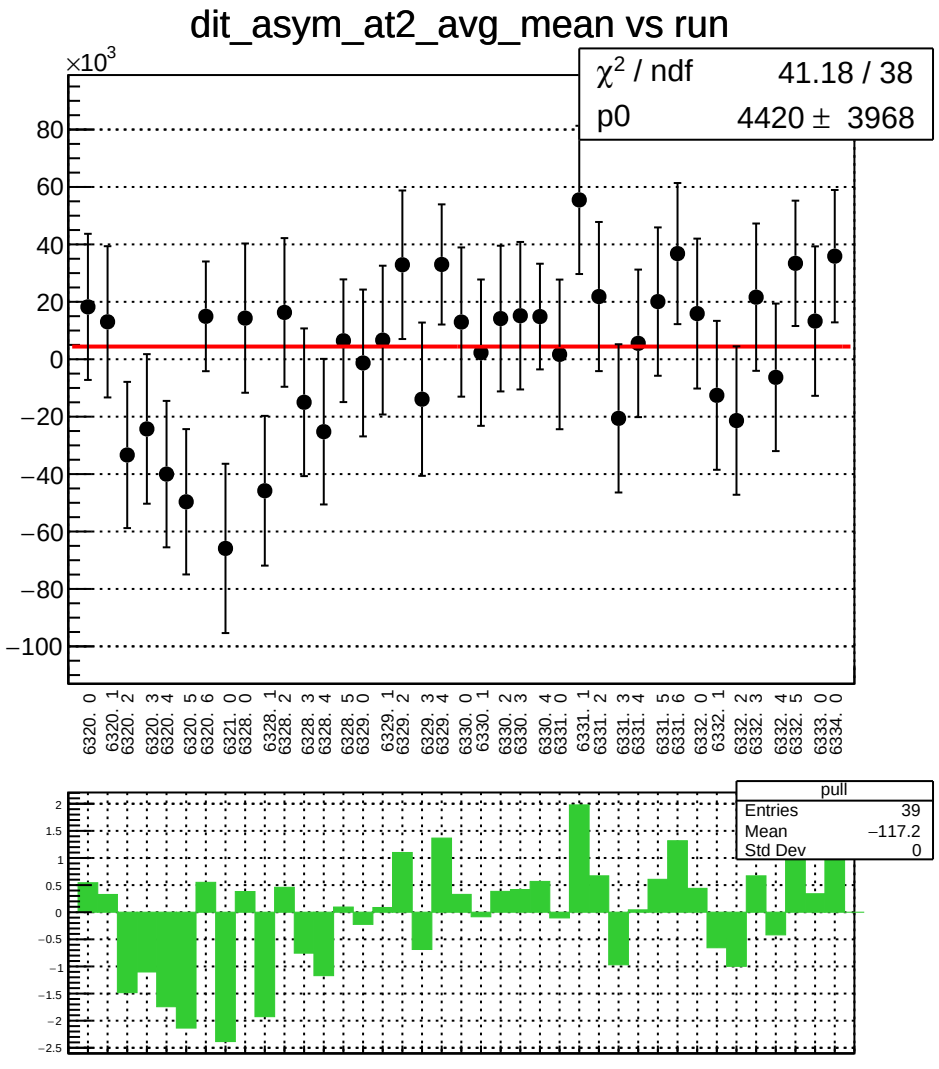

pull1D
Entries 39
Mean −0.03706
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

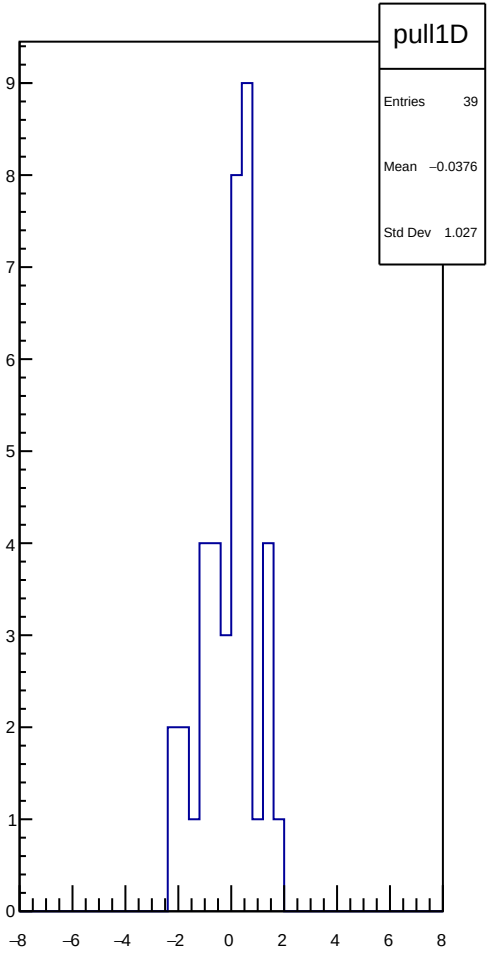

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 134.5 / 38
p0 2374 ± 2.727
2450
2400
2350
2300
2250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

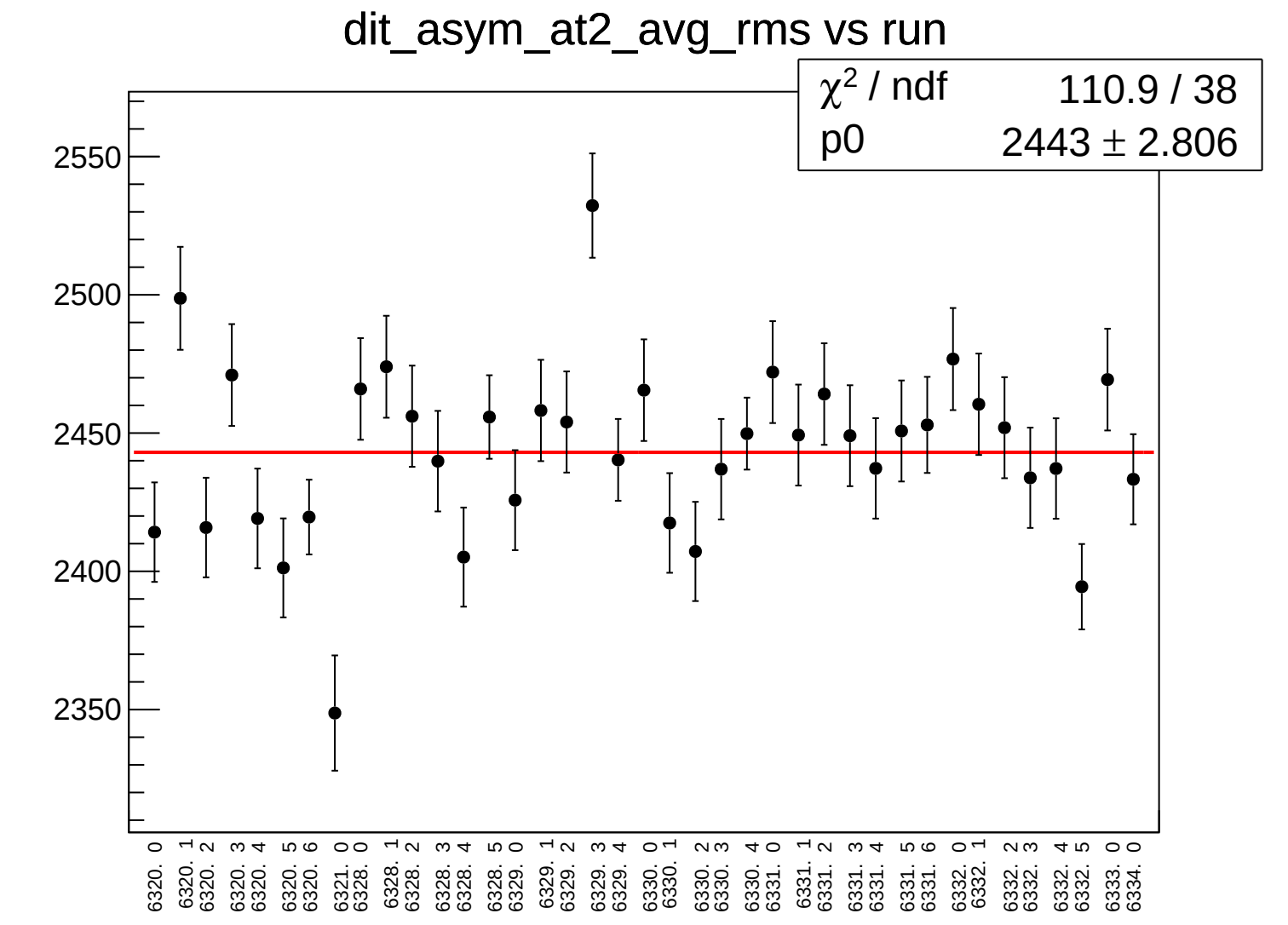

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.474e+04 ± 1.995e+04
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

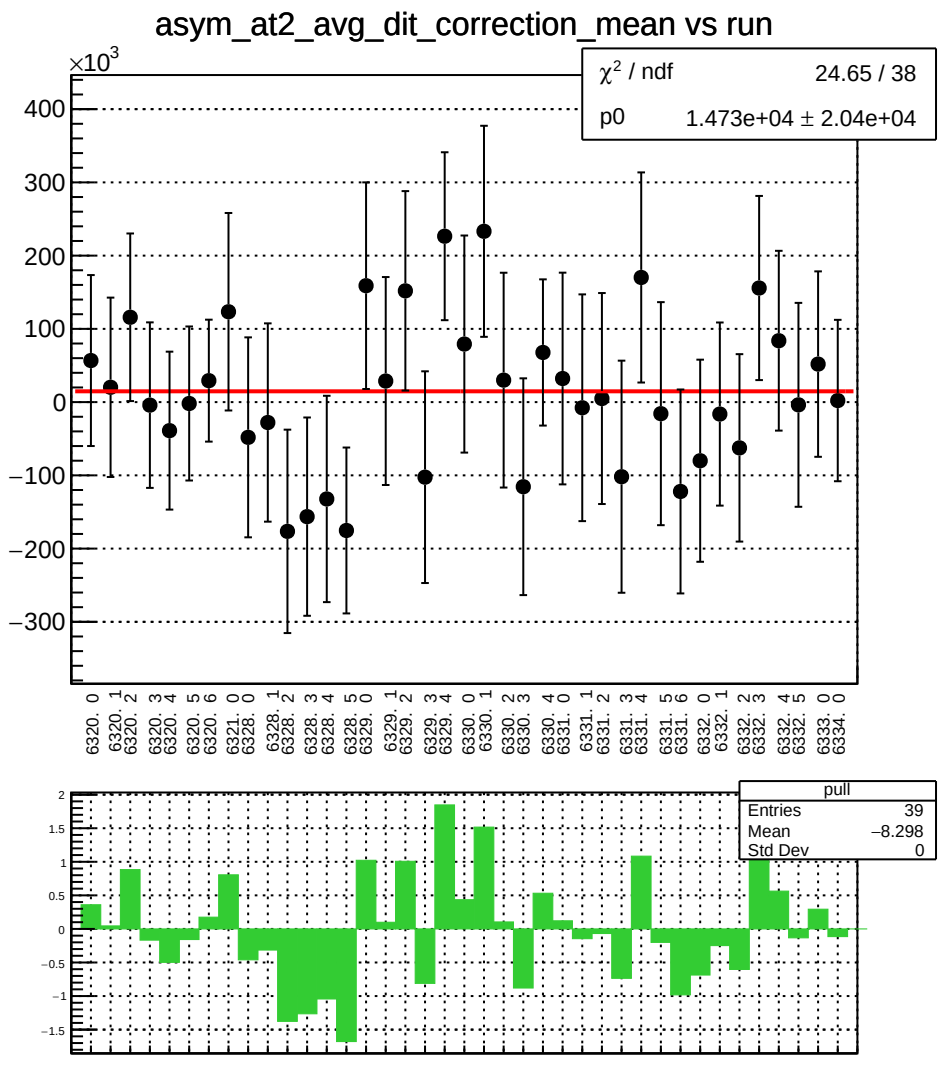

pull1D
Entries 39
Mean −0.01525
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

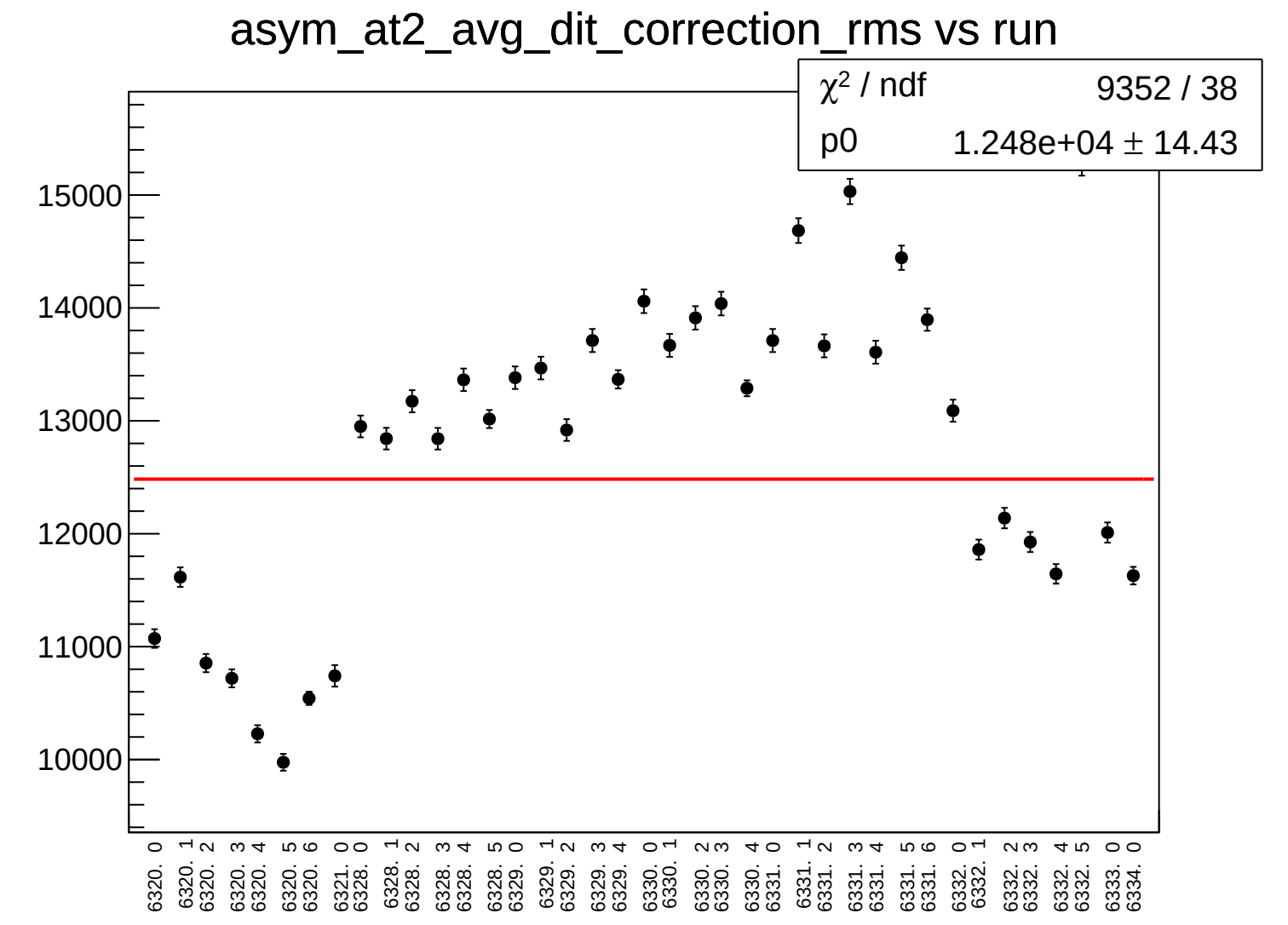

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 38
p0 1.22e+04 ± 14.11
15000
14000
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

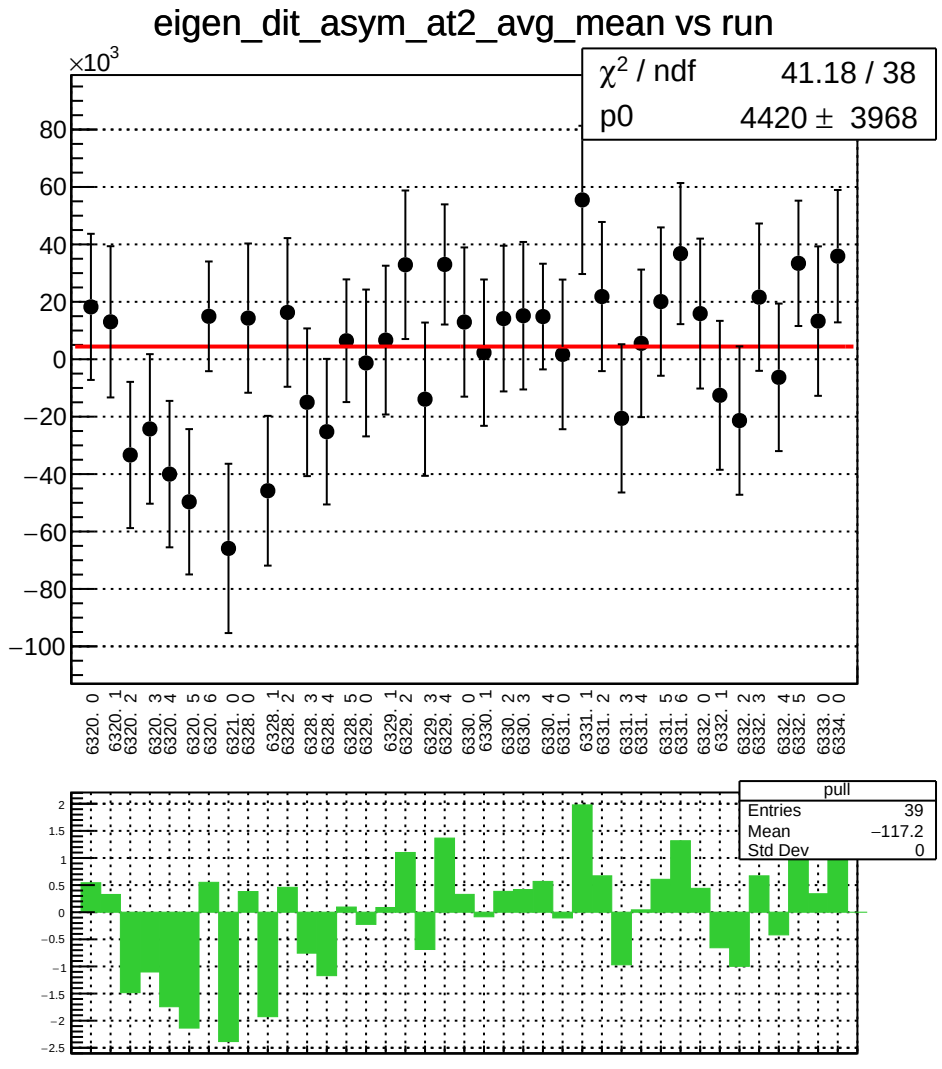

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 41.18 / 38
p0 4420 ± 3968
80
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −117.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

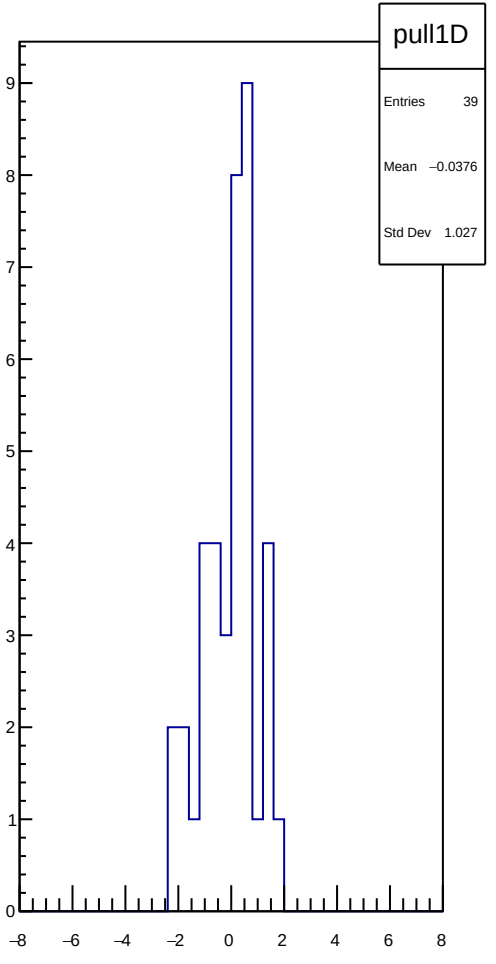

pull1D
Entries 39
Mean −0.0376
Std Dev 1.027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

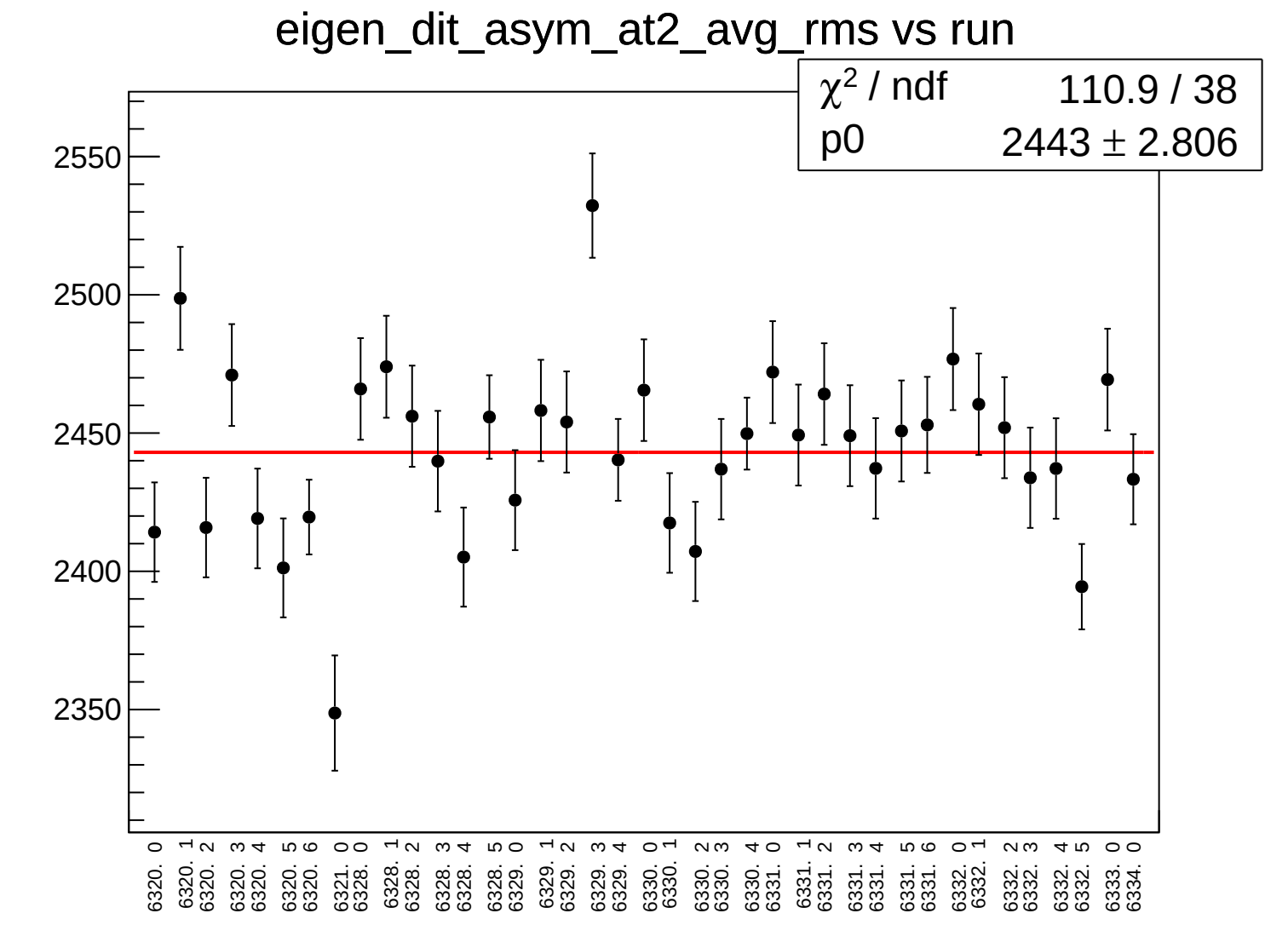

dit_asym_at2_avg_rms vs run
χ² / ndf 110.9 / 38
p0 2443 ± 2.806
2550
2500
2450
2400
2350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

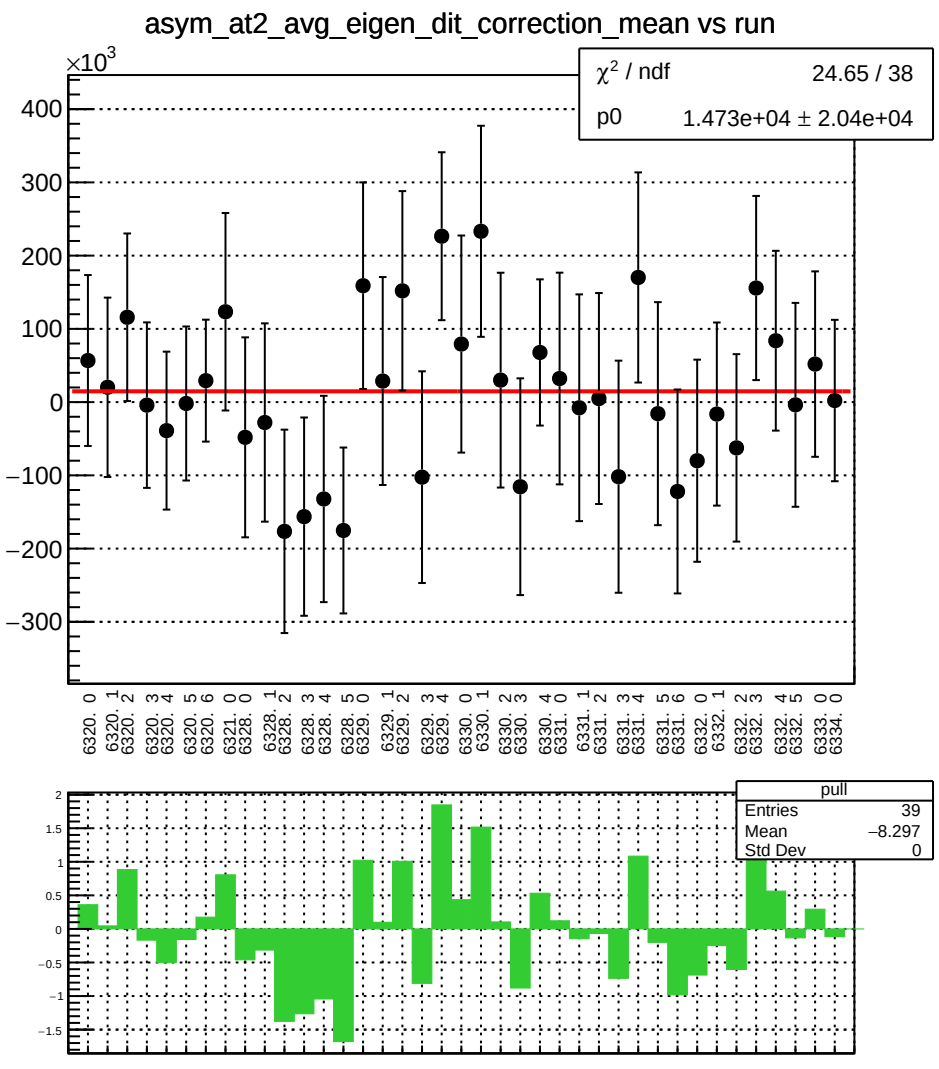

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.65 / 38
p0 1.473e+04 ± 2.04e+04
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.298
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01418
Std Dev 0.7949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

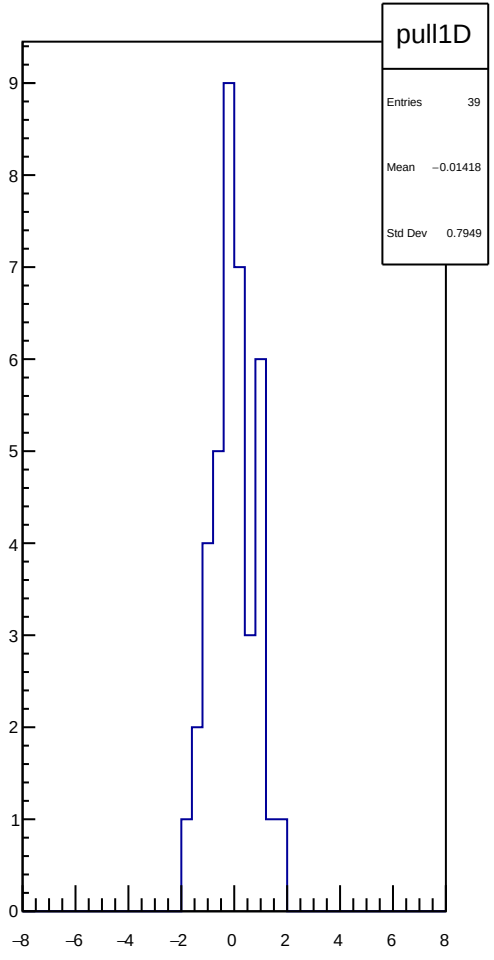

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 9352 / 38
p0 1.248e+04 ± 14.43
15000
14000
13000
12000
11000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

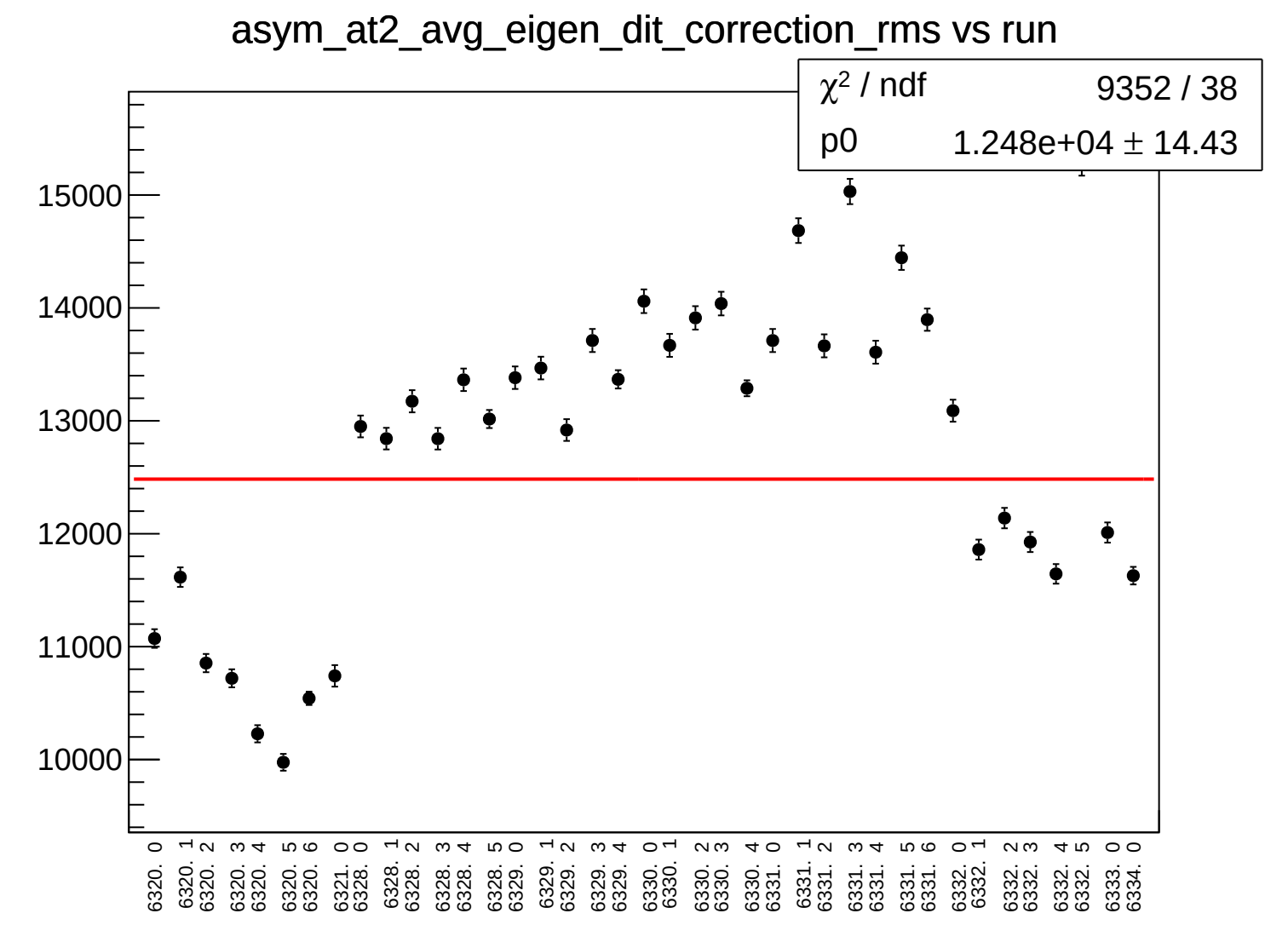

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 41.18 / 38
p0 4420 ± 3968
80
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −117.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

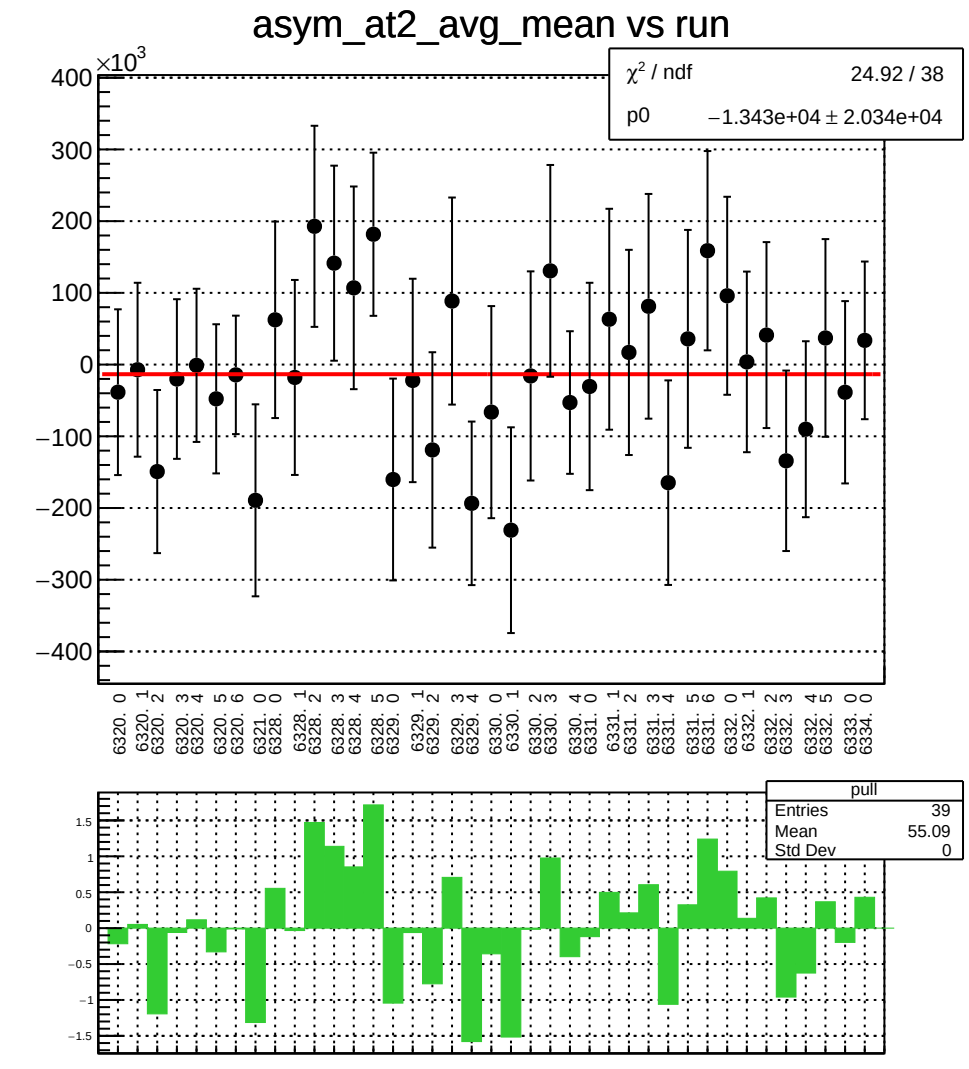

pull1D
Entries 39
Mean −0.0376
Std Dev 1.027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

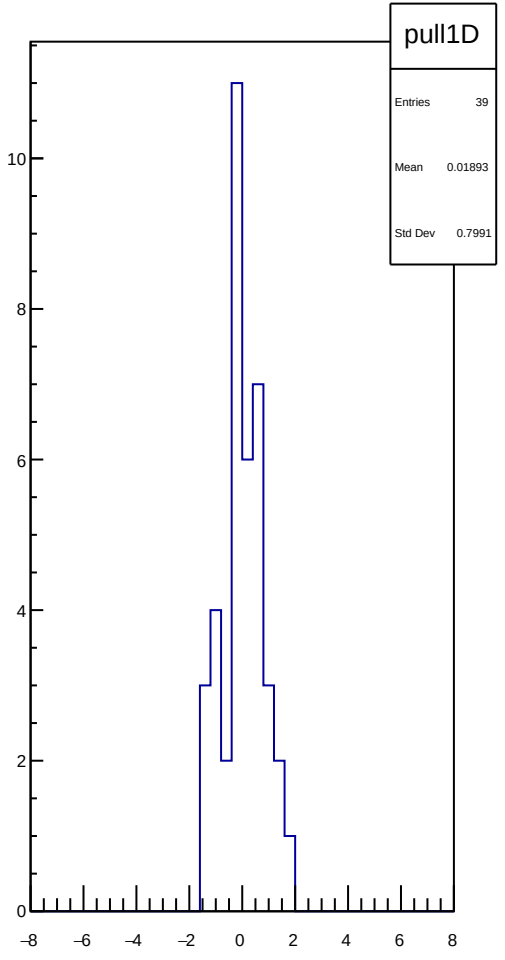

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 110.9 / 38
p0 2443 ± 2.806
2550
2500
2450
2400
2350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

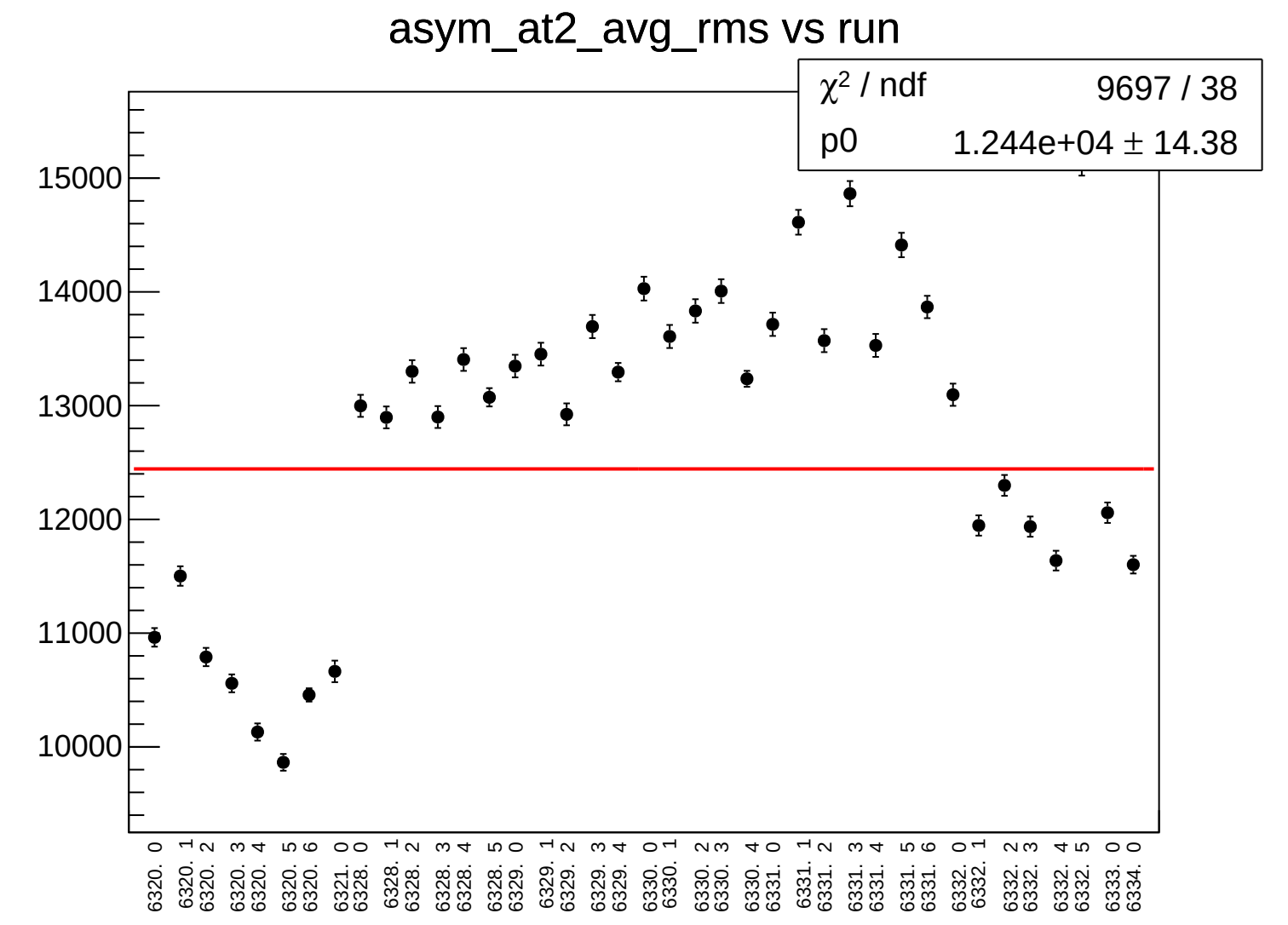

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.65 / 38
p0 1.473e+04 ± 2.04e+04
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.297
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

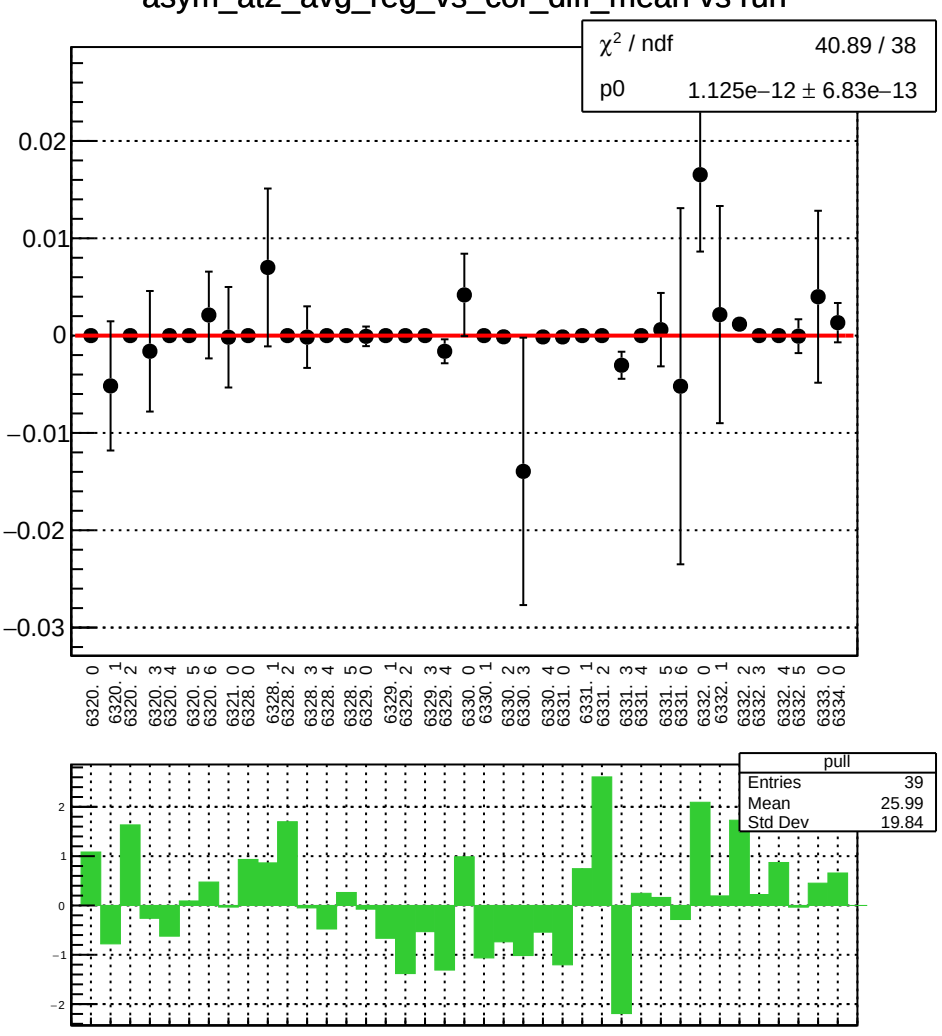

pull1D
Entries 39
Mean −0.01418
Std Dev 0.7949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

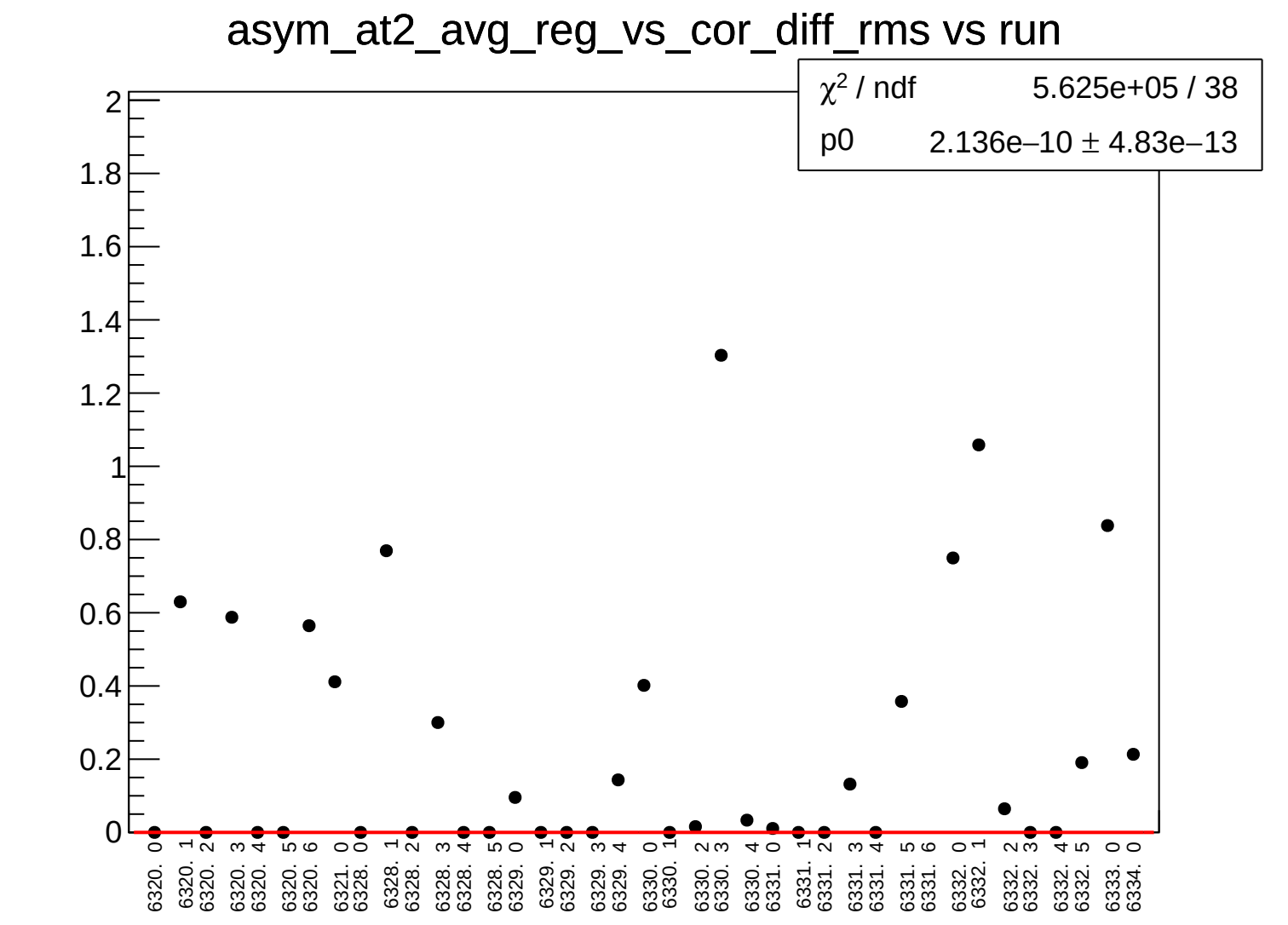

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9352 / 38
p0 1.248e+04 ± 14.43
15000
14000
13000
12000
11000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

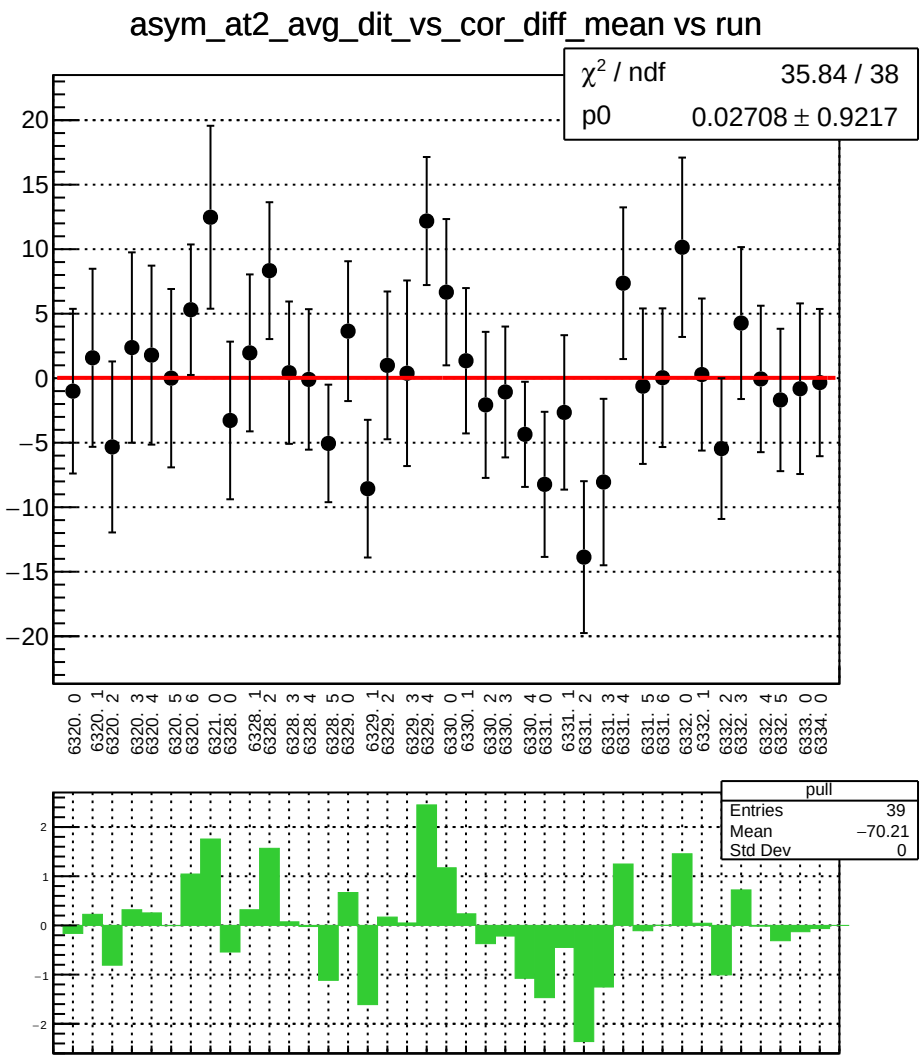

asym_at2_avg_mean vs run
×10^3
χ² / ndf 24.92 / 38
p0 −1.343e+04 ± 2.034e+04
pull
Entries 39
Mean 55.09
Std Dev 0

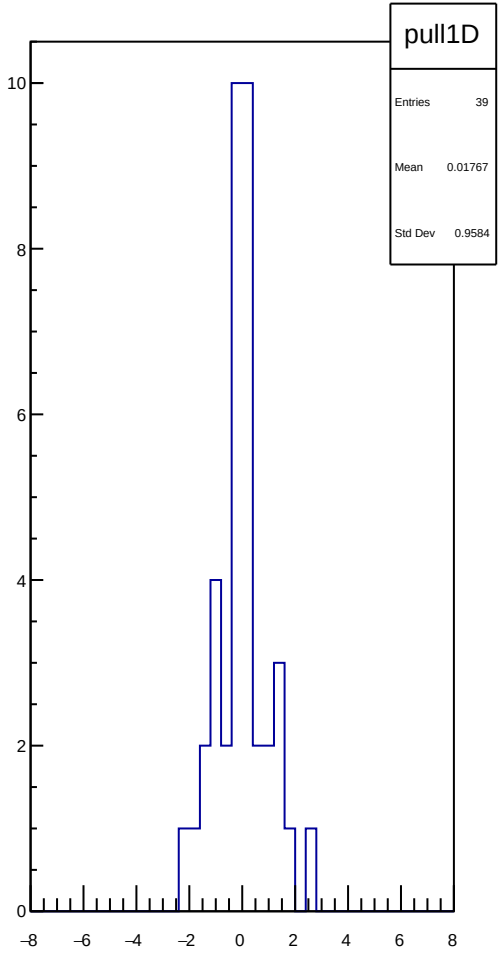

pull1D
Entries 39
Mean 0.01893
Std Dev 0.7991

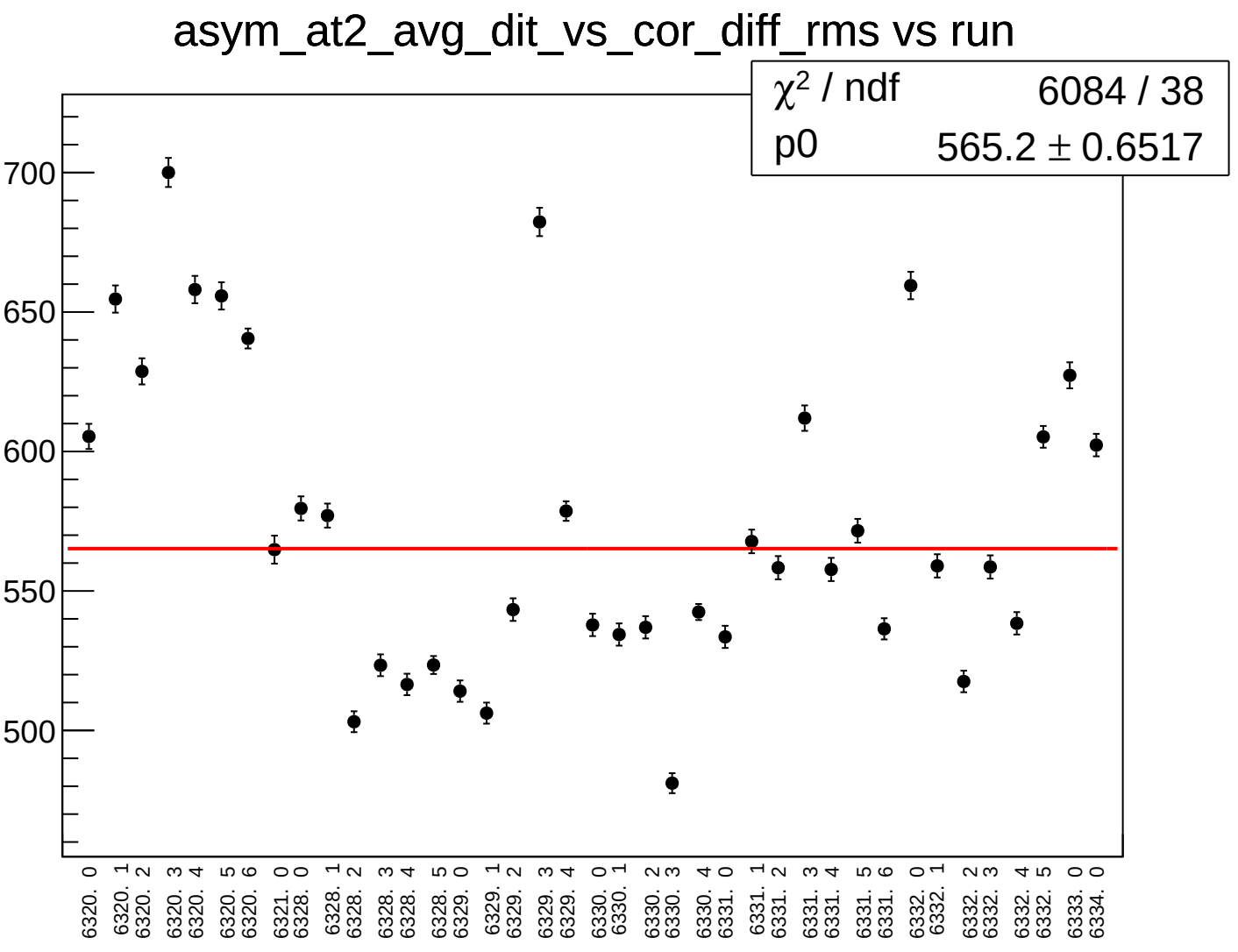

asym_at2_avg_rms vs run
χ² / ndf 9697 / 38
p0 1.244e+04 ± 14.38
15000
14000
13000
12000
11000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

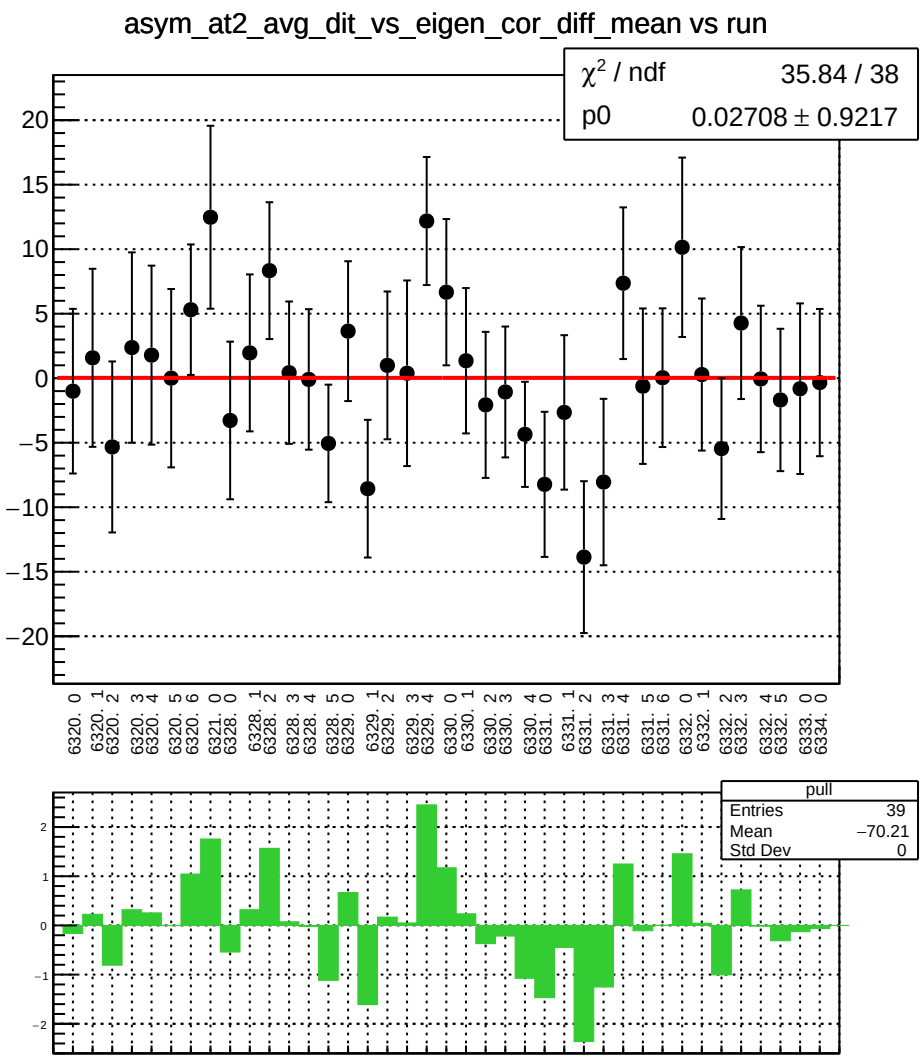

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.89 / 38
p0 1.125e−12 ± 6.83e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 25.99
Std Dev 19.84
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.122
Std Dev 1.017
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

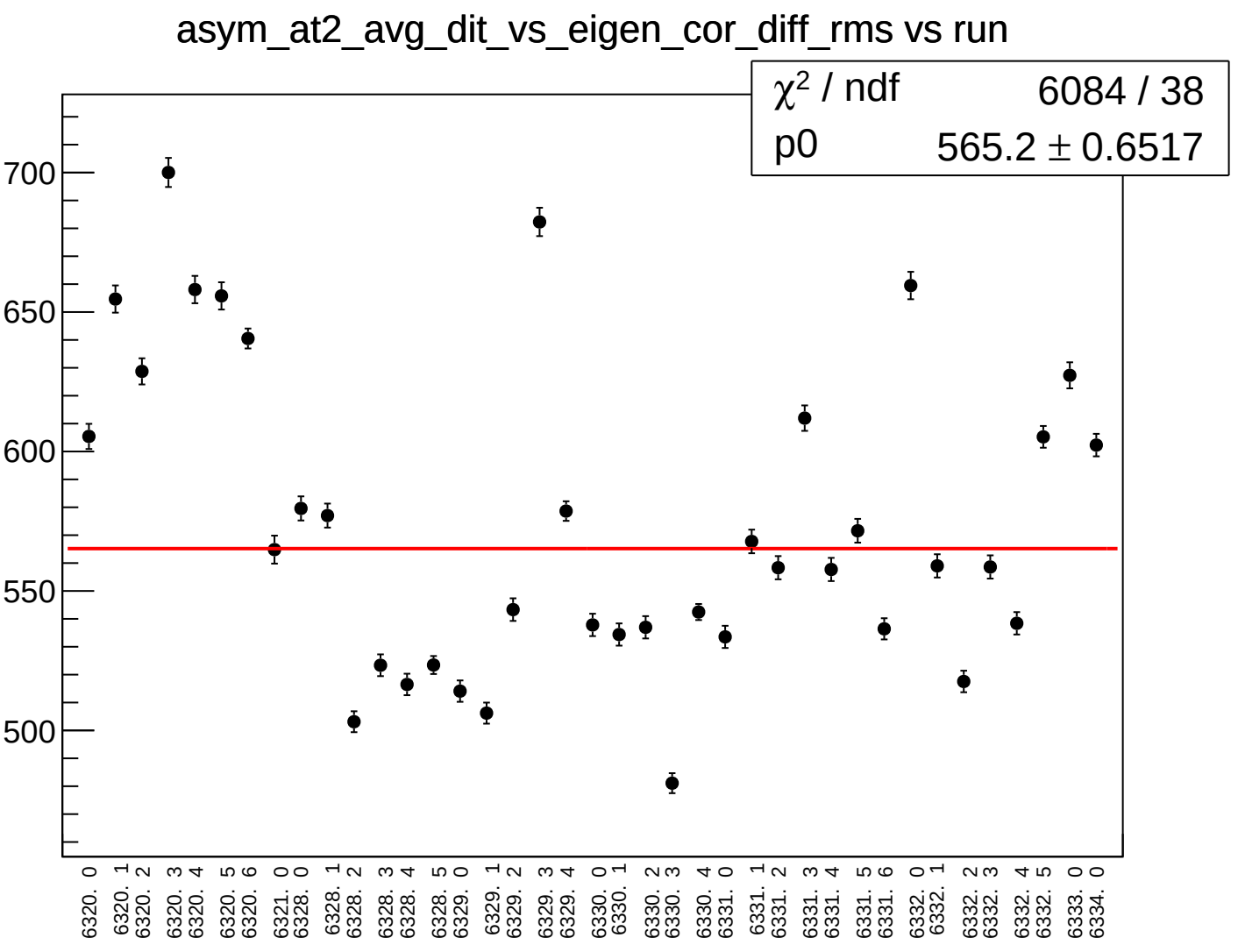

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.625e+05 / 38
p0 2.136e−10 ± 4.83e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

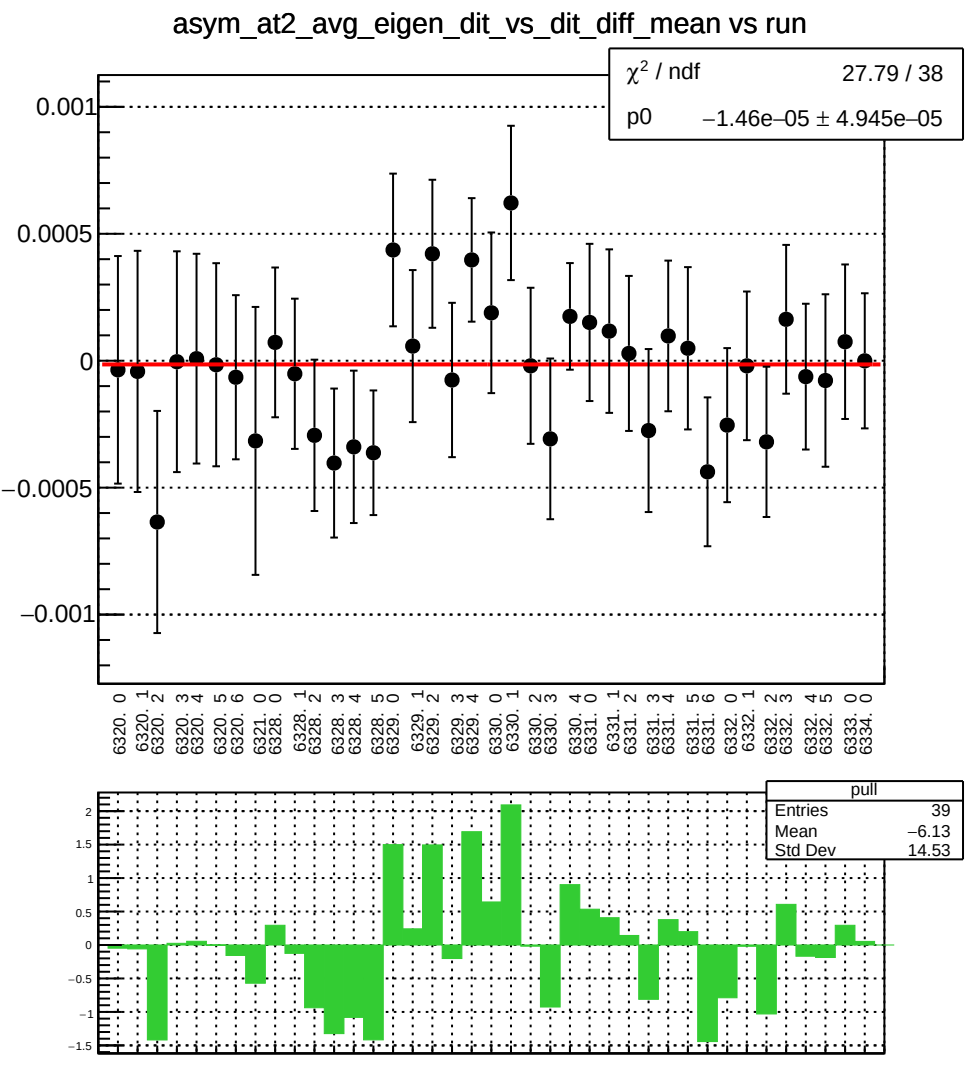

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.84 / 38
p0 0.02708 ± 0.9217
pull
Entries 39
Mean −70.21
Std Dev 0

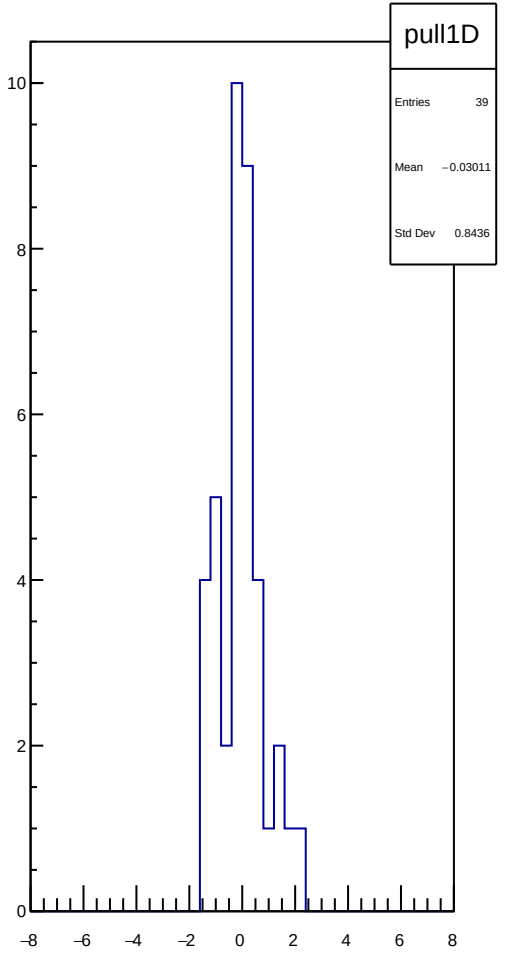

pull1D
Entries 39
Mean 0.01767
Std Dev 0.9584

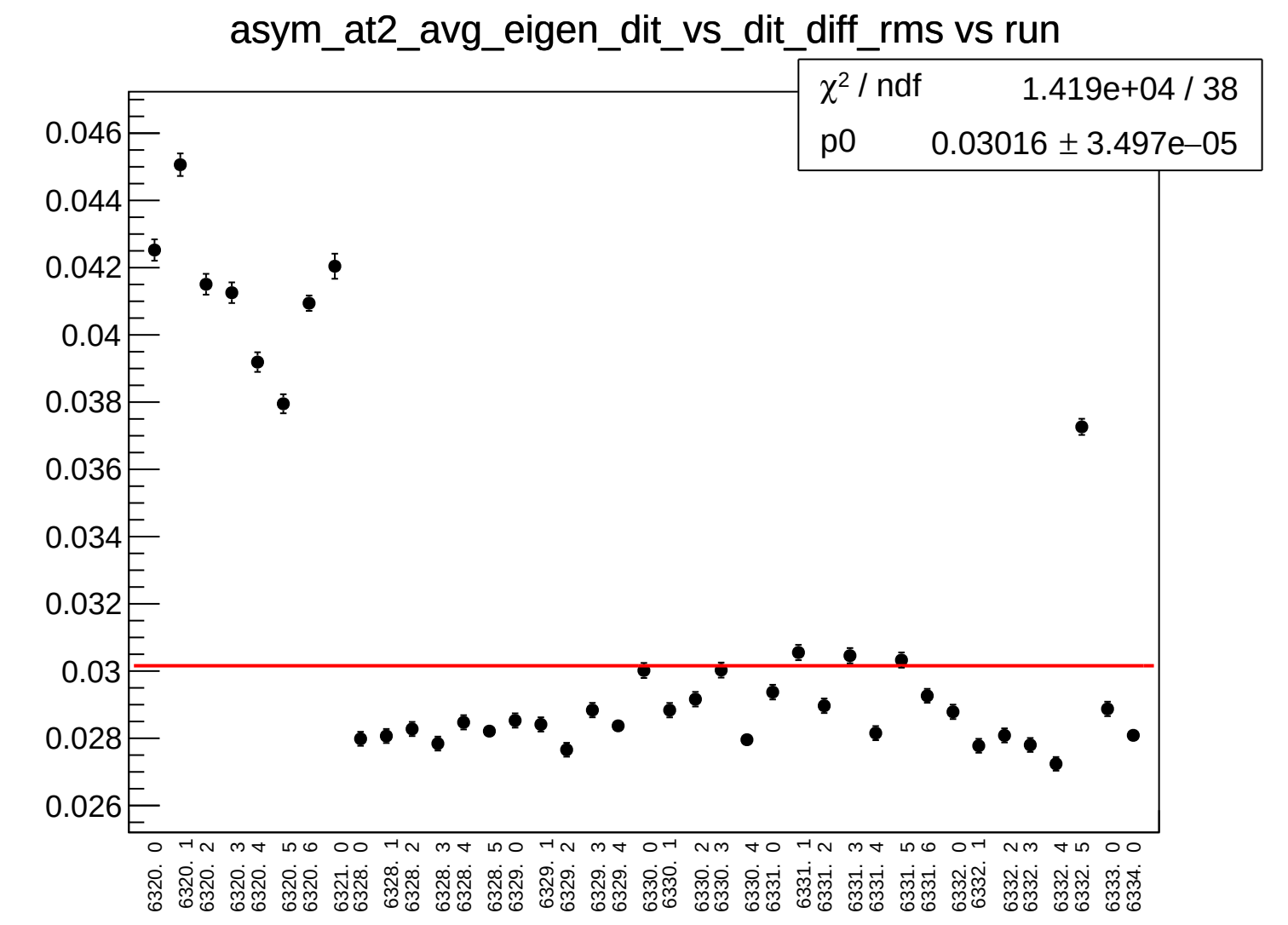

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6084 / 38
p0 565.2 ± 0.6517
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

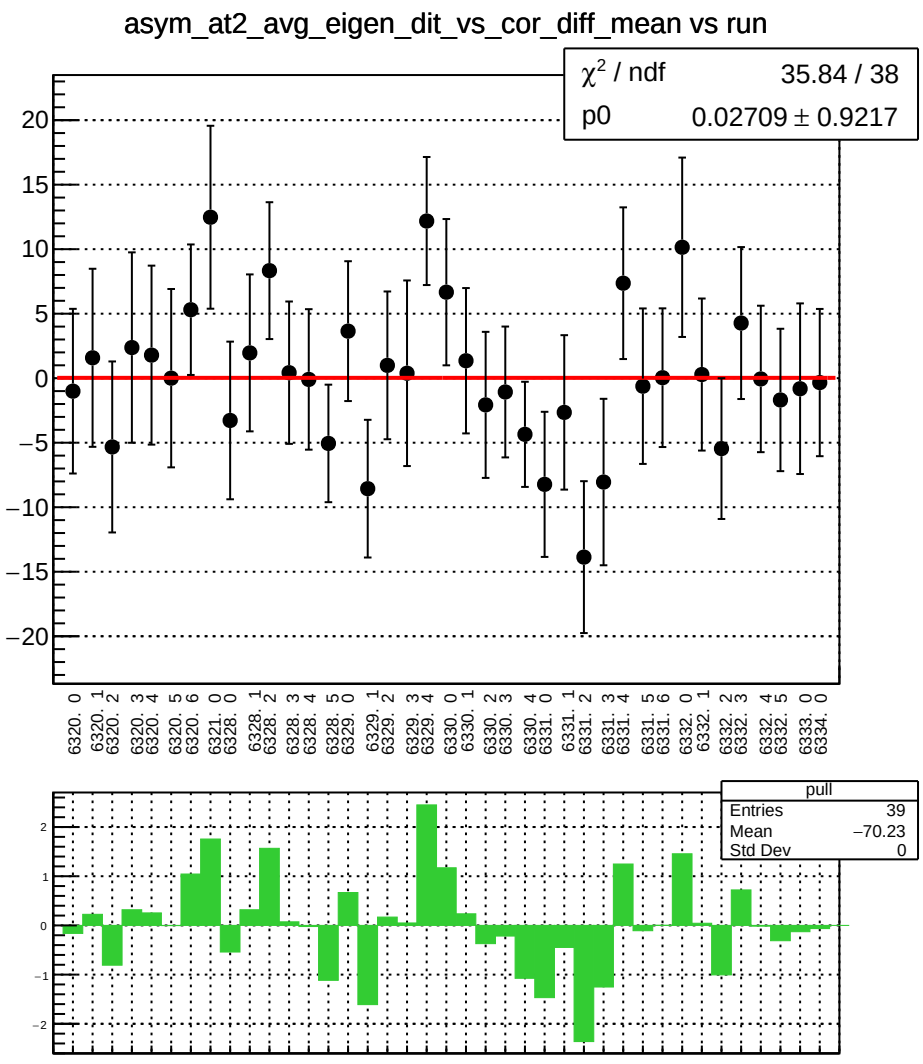

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.84 / 38
p0 0.02708 ± 0.9217
pull
Entries 39
Mean −70.21
Std Dev 0
pull1D
Entries 39
Mean 0.01767
Std Dev 0.9584

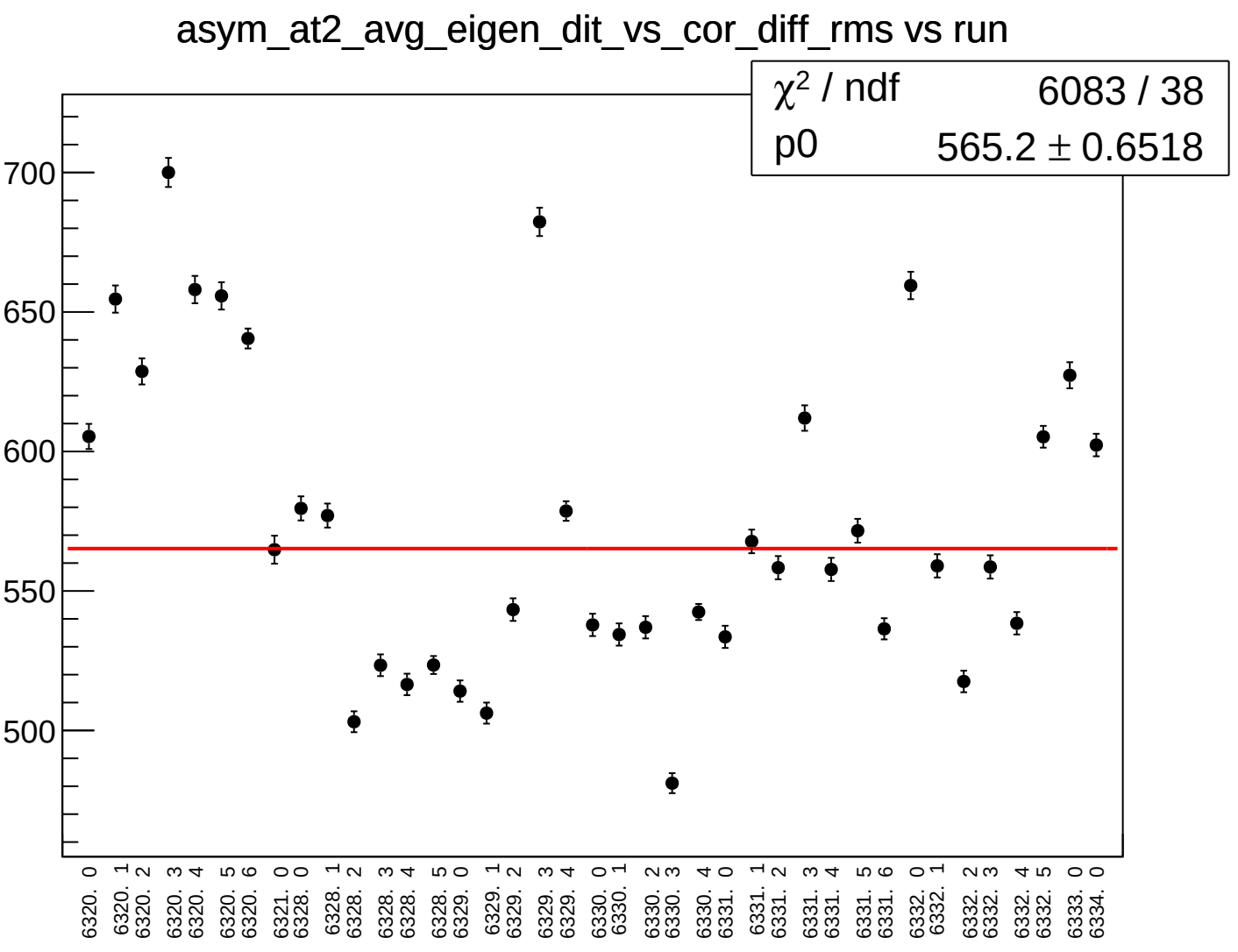

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6084 / 38
p0 565.2 ± 0.6517
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

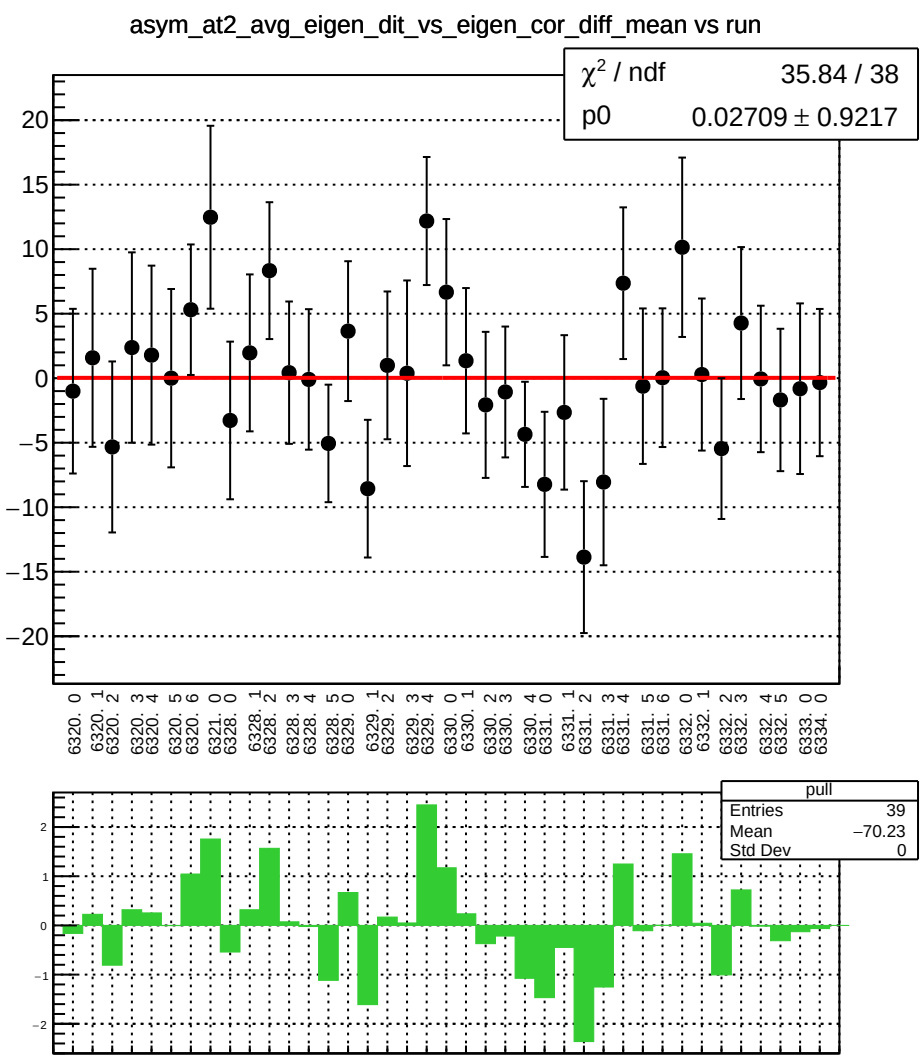

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 27.79 / 38
p0 −1.46e−05 ± 4.945e−05
0.001
0.0005
0
−0.0005
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.13
Std Dev 14.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

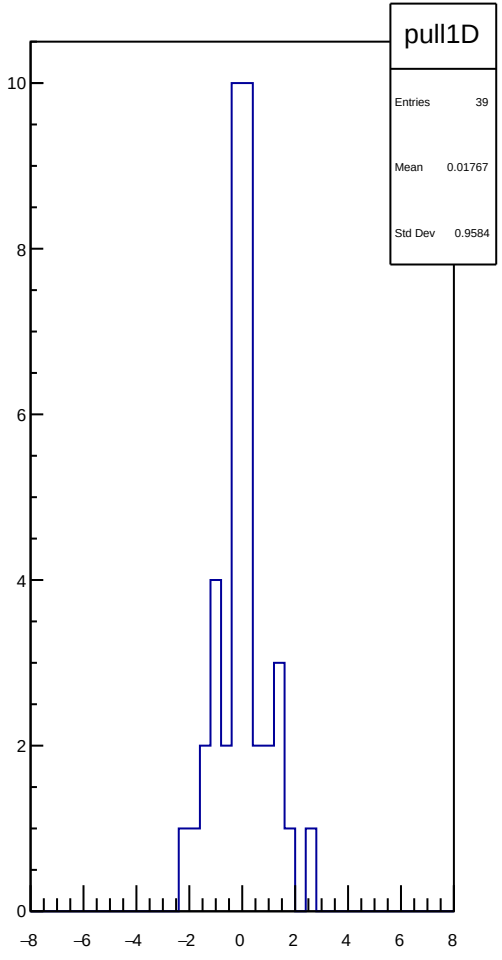

pull1D
Entries 39
Mean −0.03011
Std Dev 0.8436
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

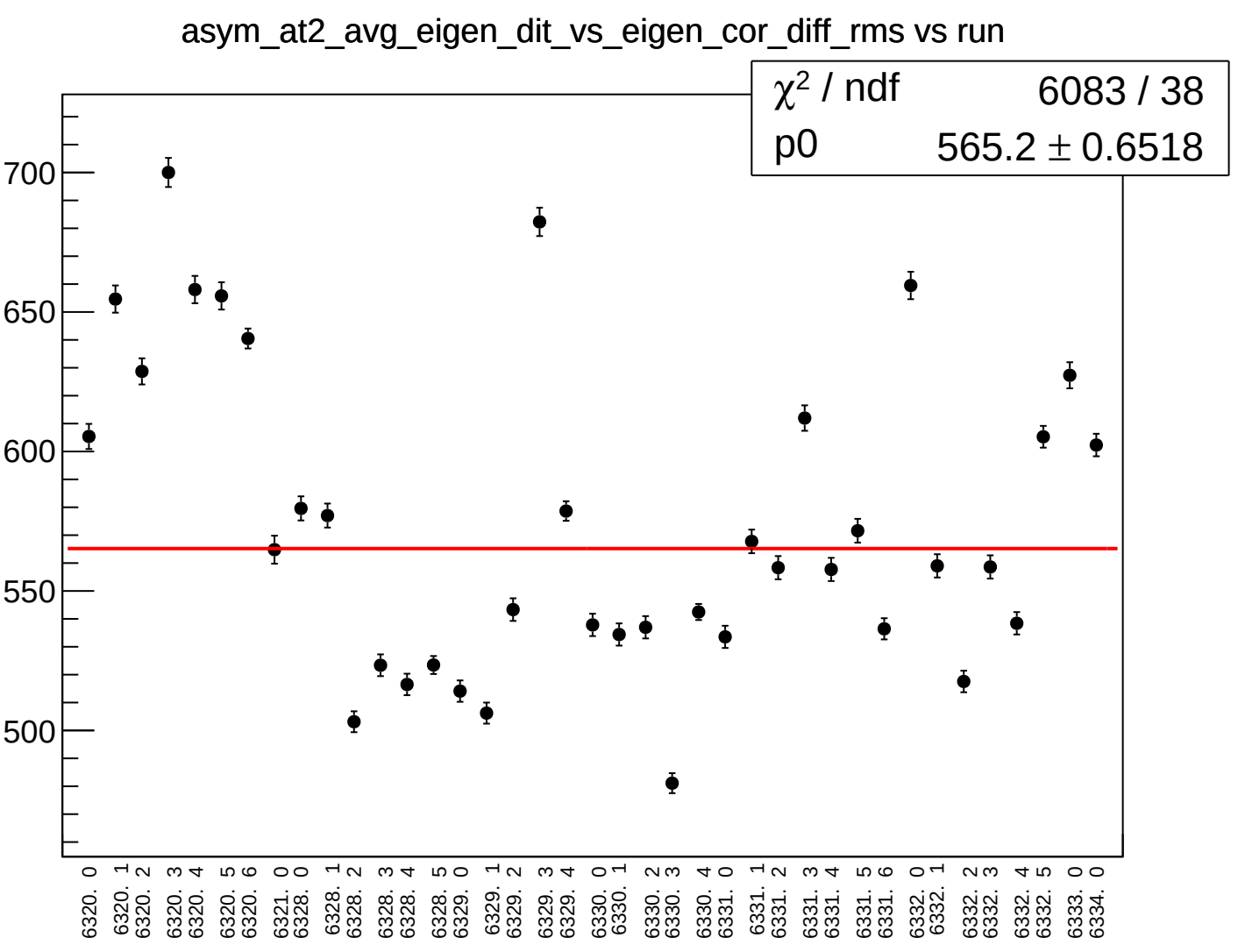

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.419e+04 / 38
p0 0.03016 ± 3.497e–05
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

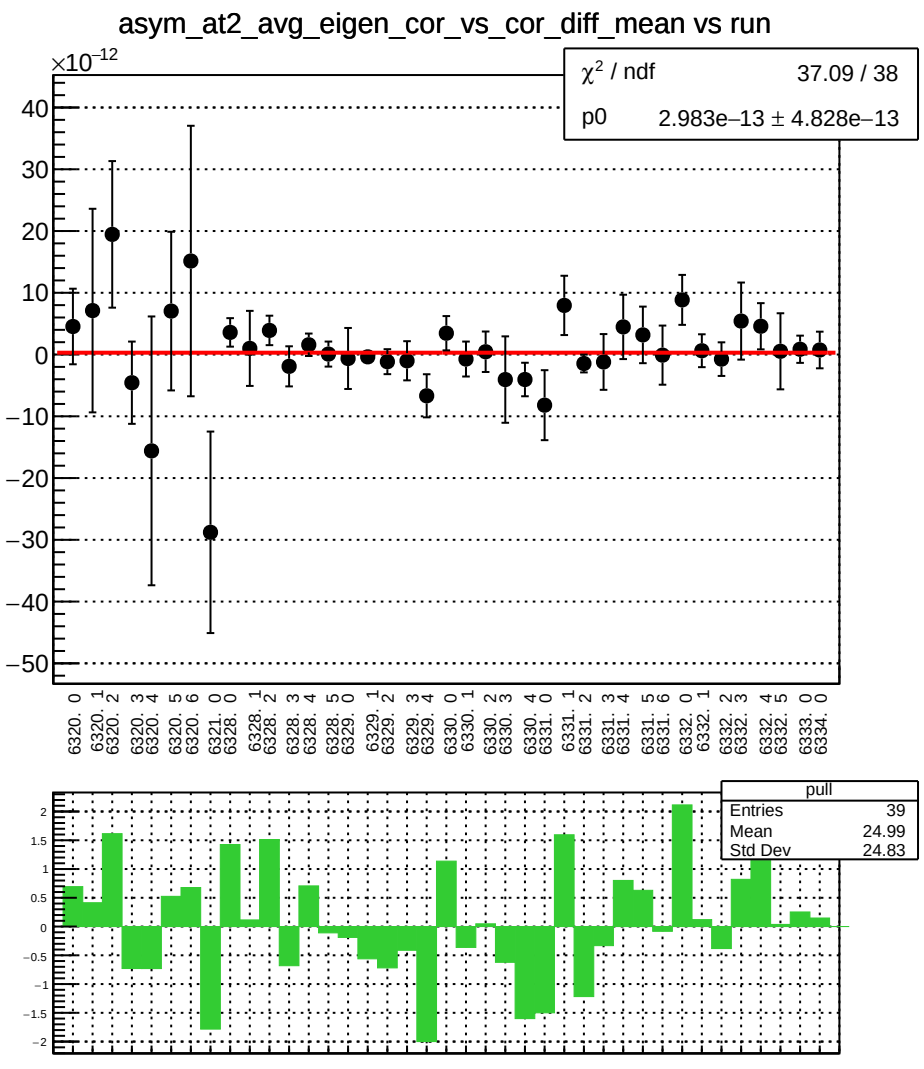

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.84 / 38
p0 0.02709 ± 0.9217
pull
Entries 39
Mean −70.23
Std Dev 0
pull1D
Entries 39
Mean 0.01767
Std Dev 0.9584

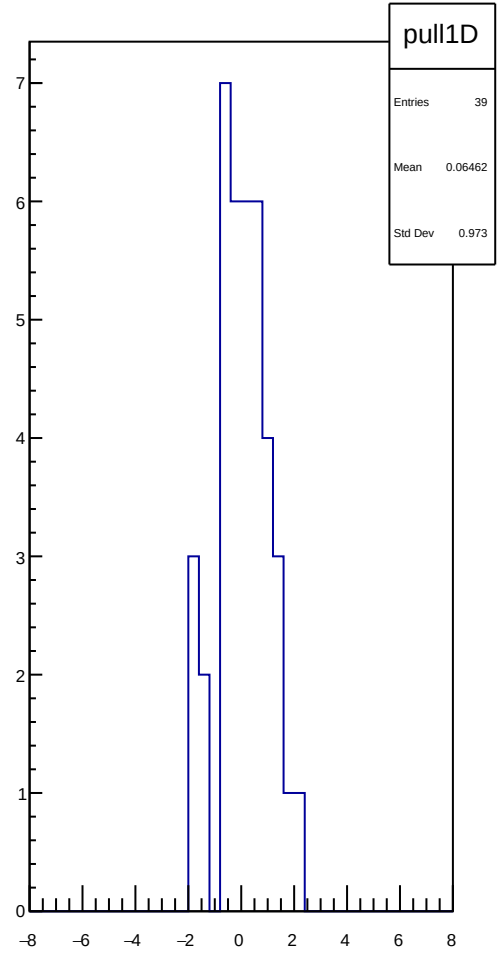

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6083 / 38
p0 565.2 ± 0.6518
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

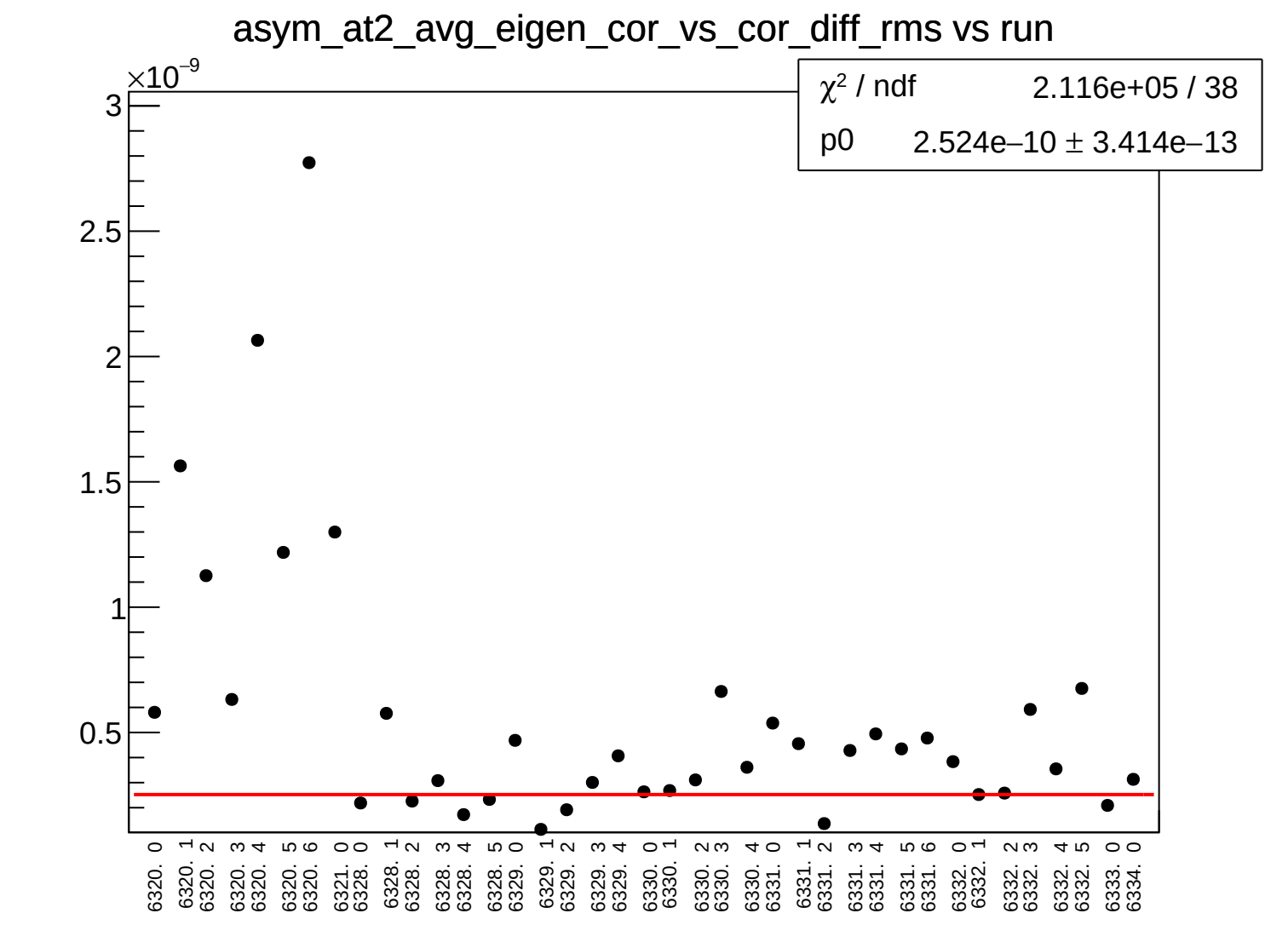

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.84 / 38
p0 0.02709 ± 0.9217
pull
Entries 39
Mean −70.23
Std Dev 0

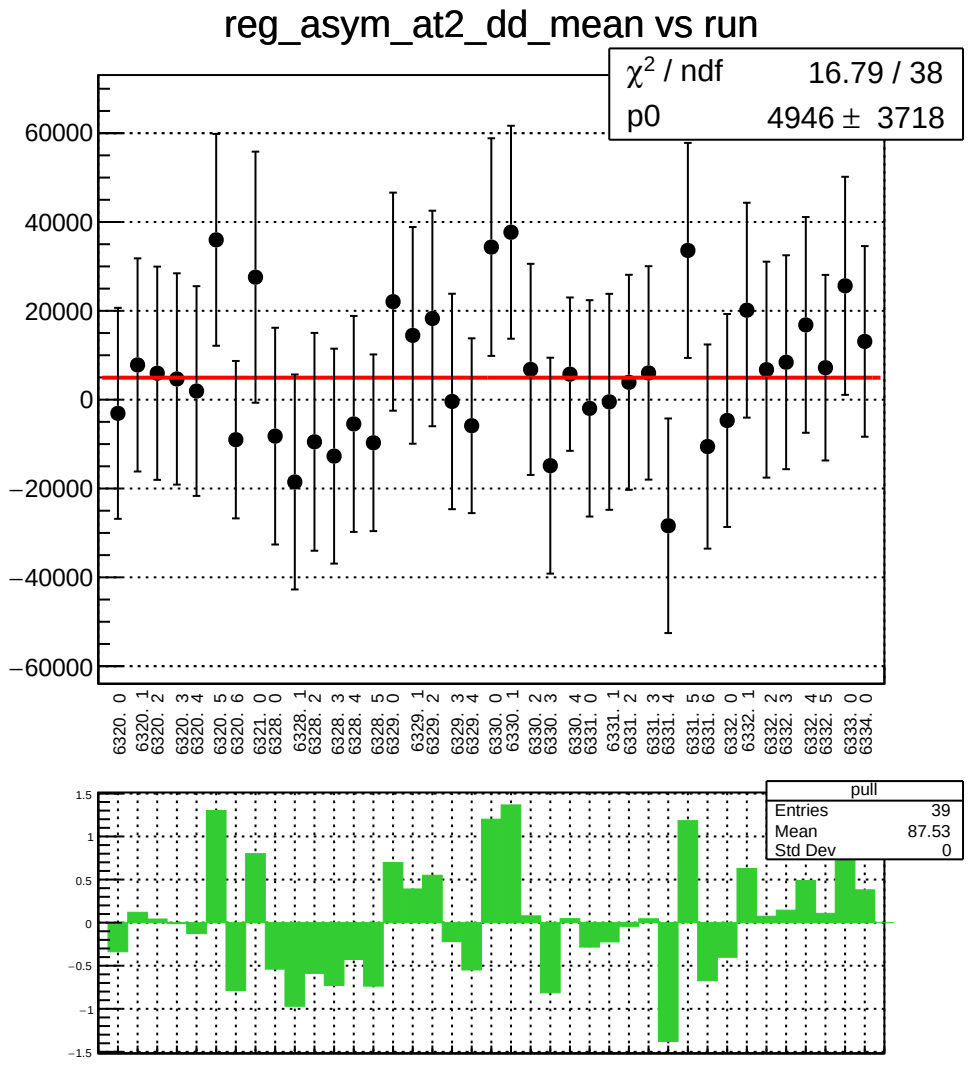

pull1D
Entries 39
Mean 0.01767
Std Dev 0.9584

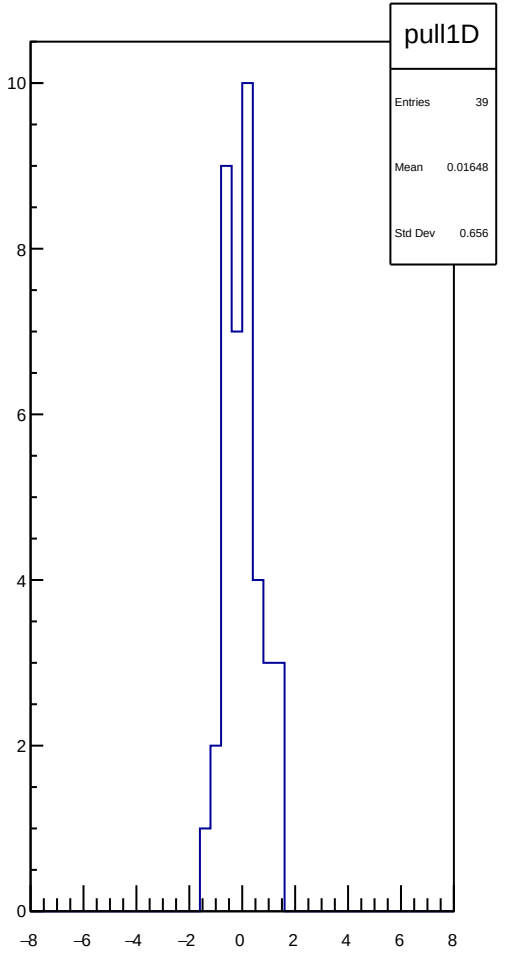

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6083 / 38
p0 565.2 ± 0.6518
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

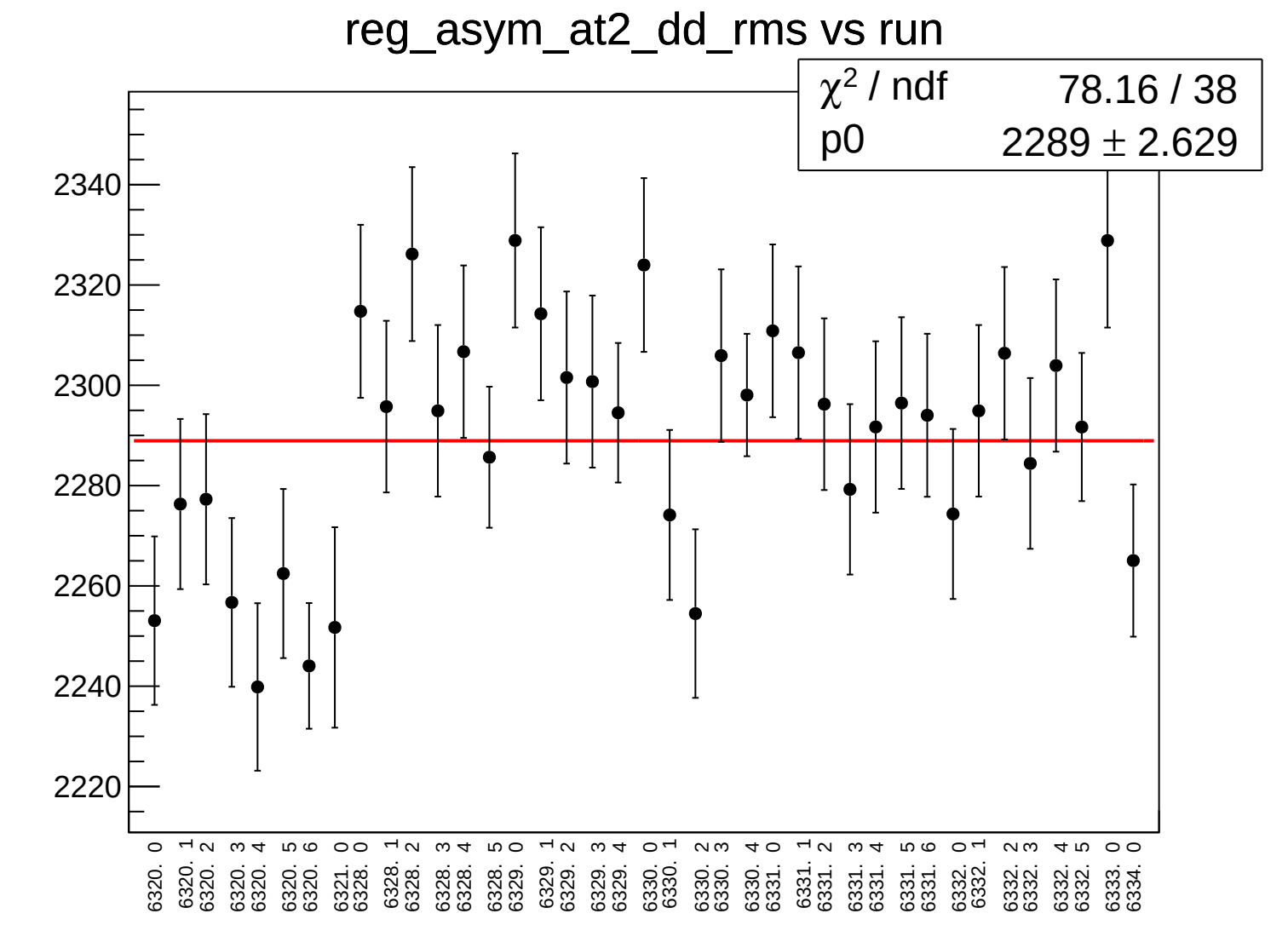

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.09 / 38
p0 2.983e−13 ± 4.828e−13
pull
Entries 39
Mean 24.99
Std Dev 24.83

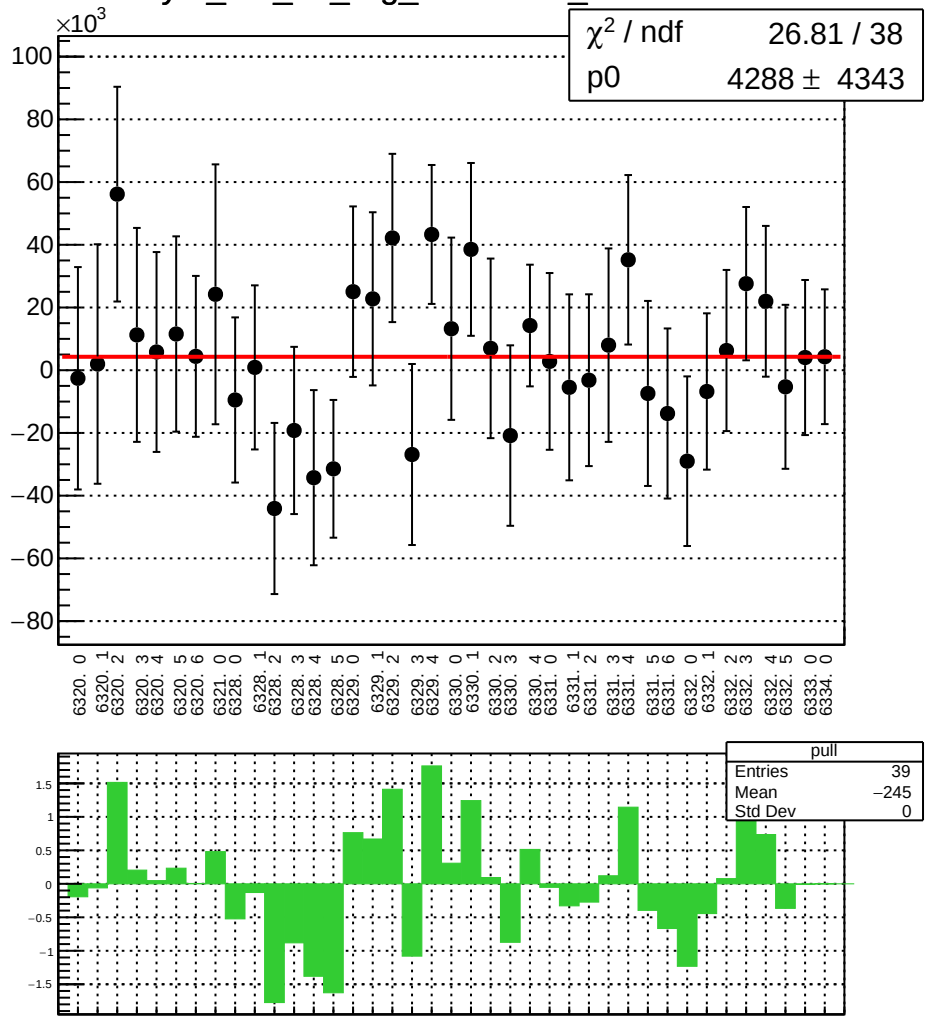

pull1D
Entries 39
Mean 0.06462
Std Dev 0.973

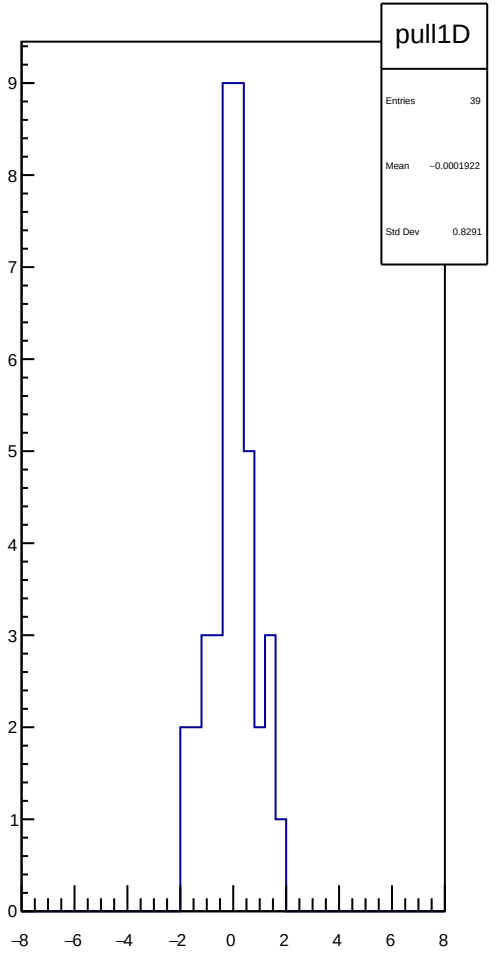

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.116e+05 / 38
p0 2.524e−10 ± 3.414e−13
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

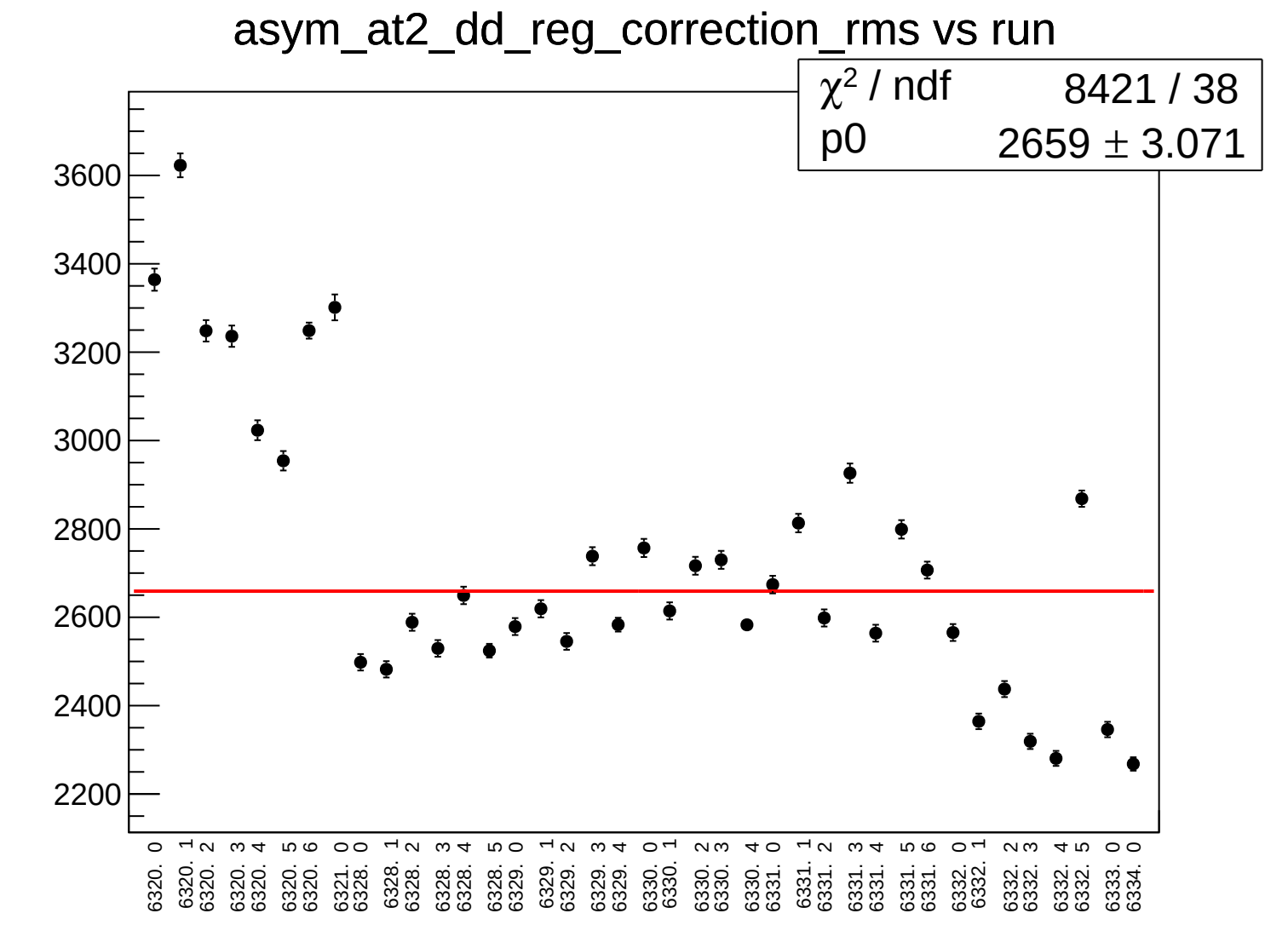

reg_asym_at2_dd_mean vs run
χ² / ndf 16.79 / 38
p0 4946 ± 3718
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

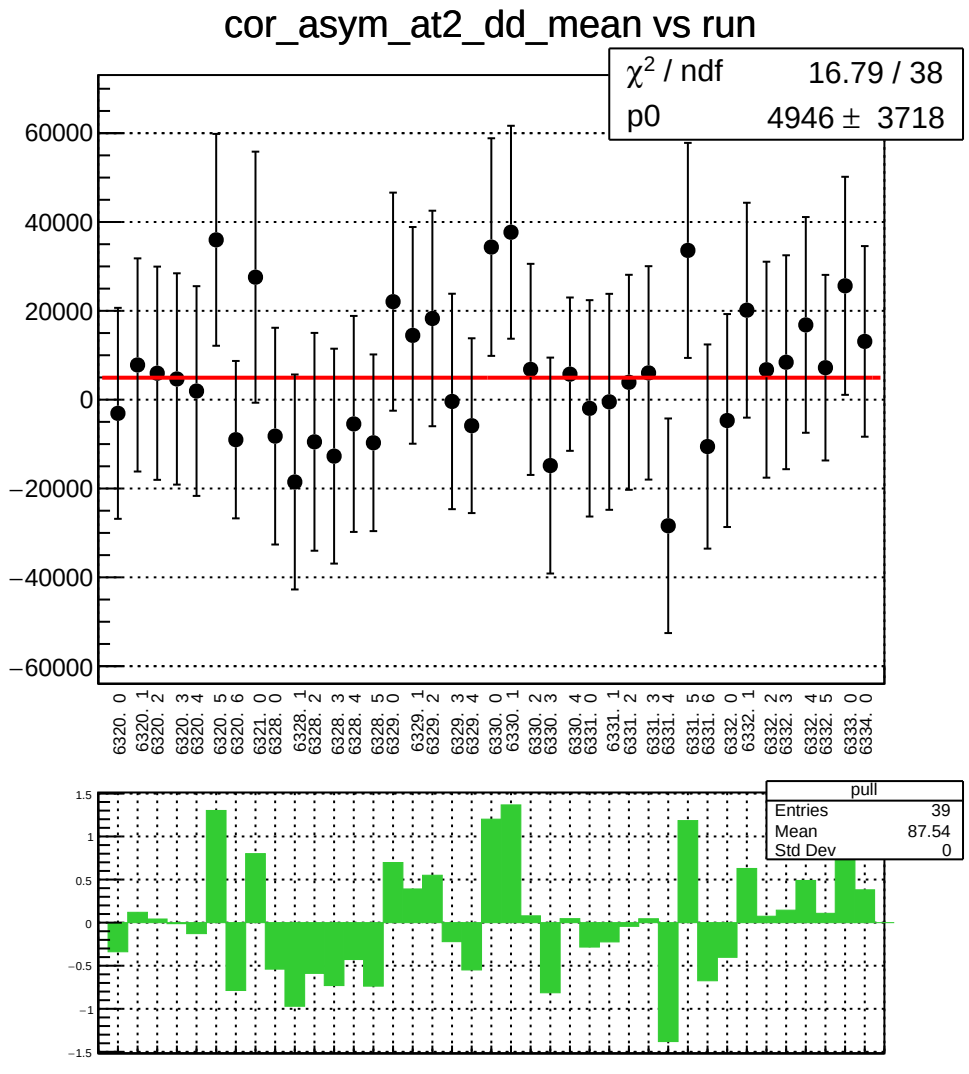

pull1D
Entries 39
Mean 0.01648
Std Dev 0.656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

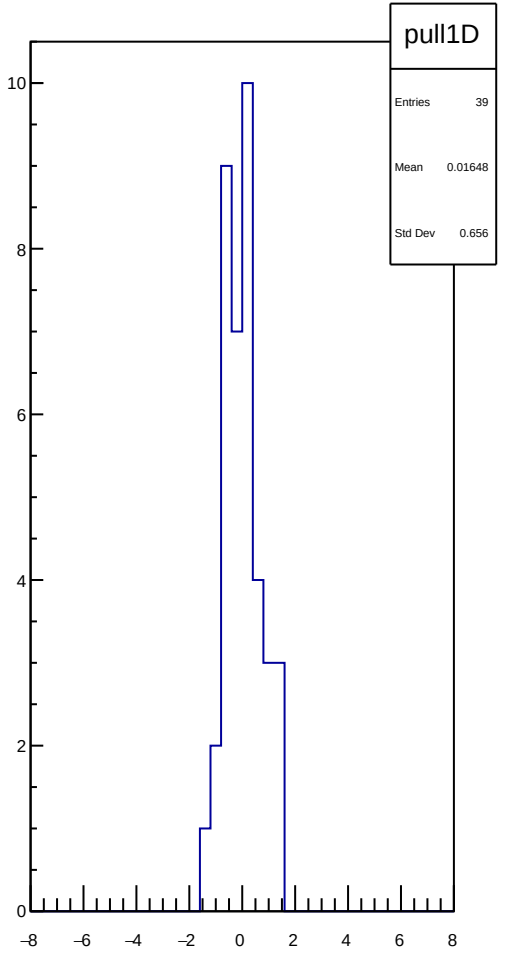

reg_asym_at2_dd_rms vs run
χ² / ndf 78.16 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

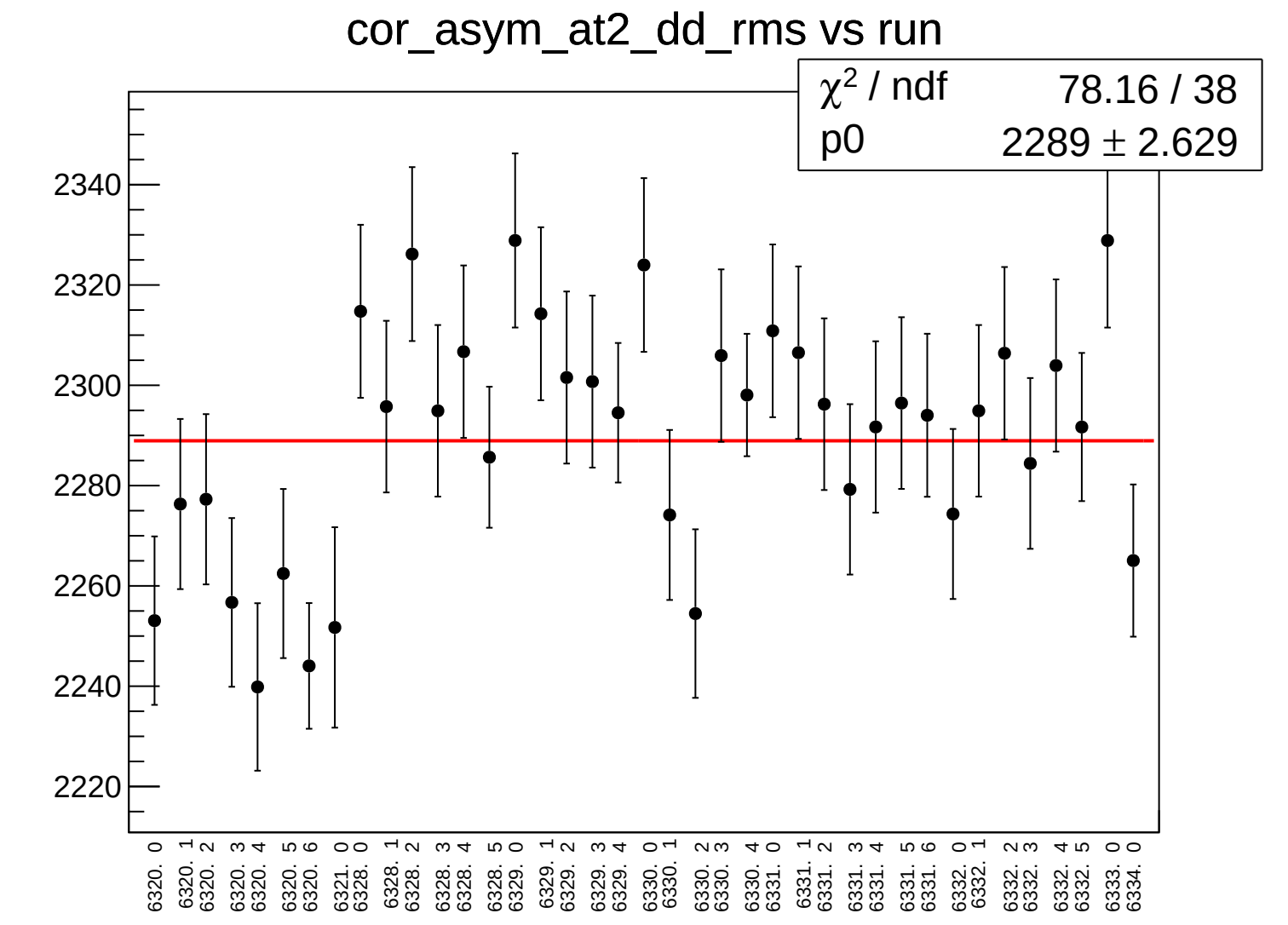

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 26.81 / 38
p0 4288 ± 4343
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −245
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

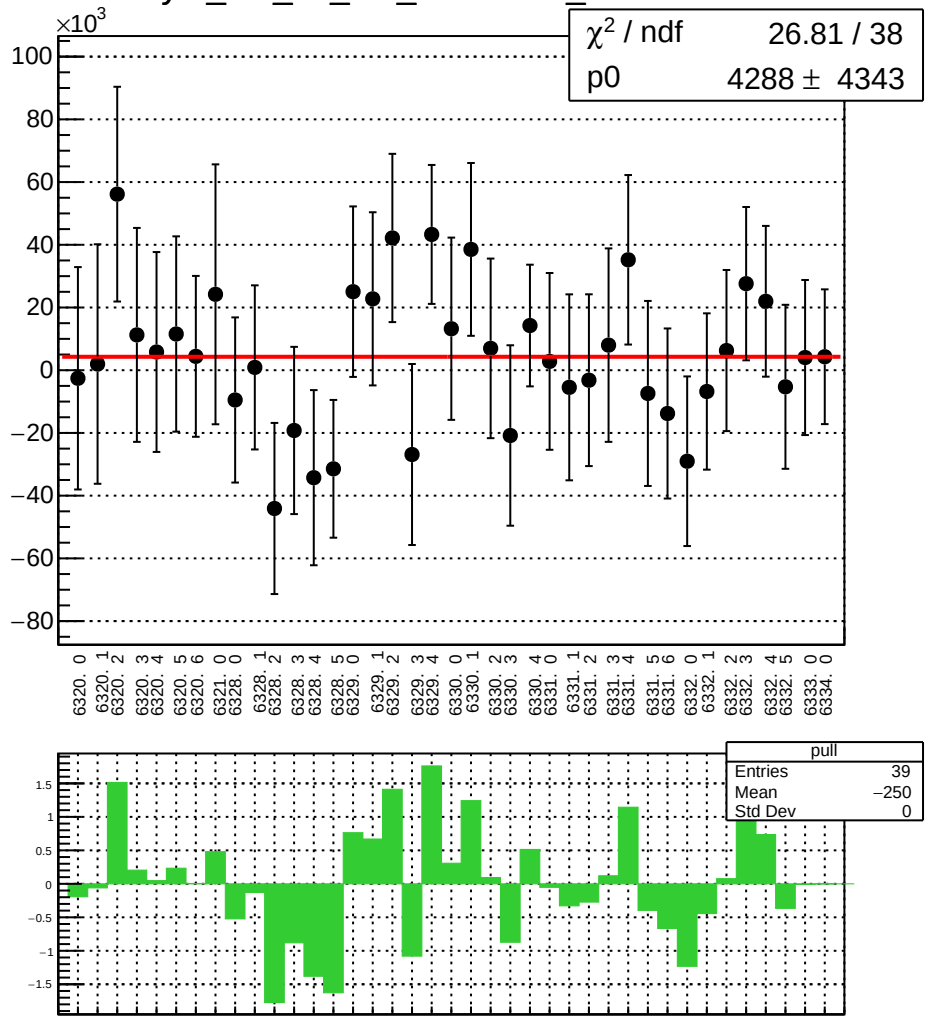

pull1D
Entries 39
Mean −0.0001922
Std Dev 0.8291
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

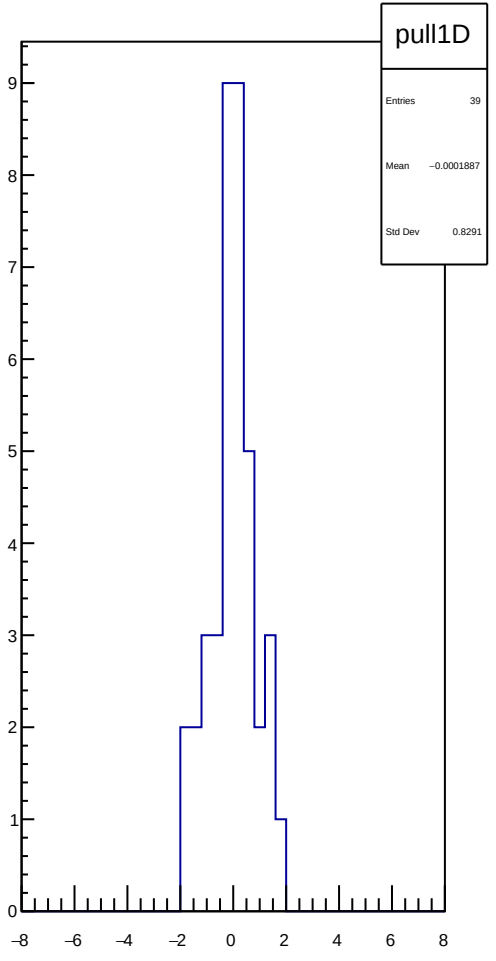

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 8421 / 38
p0 2659 ± 3.071
3600
3400
3200
3000
2800
2600
2400
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

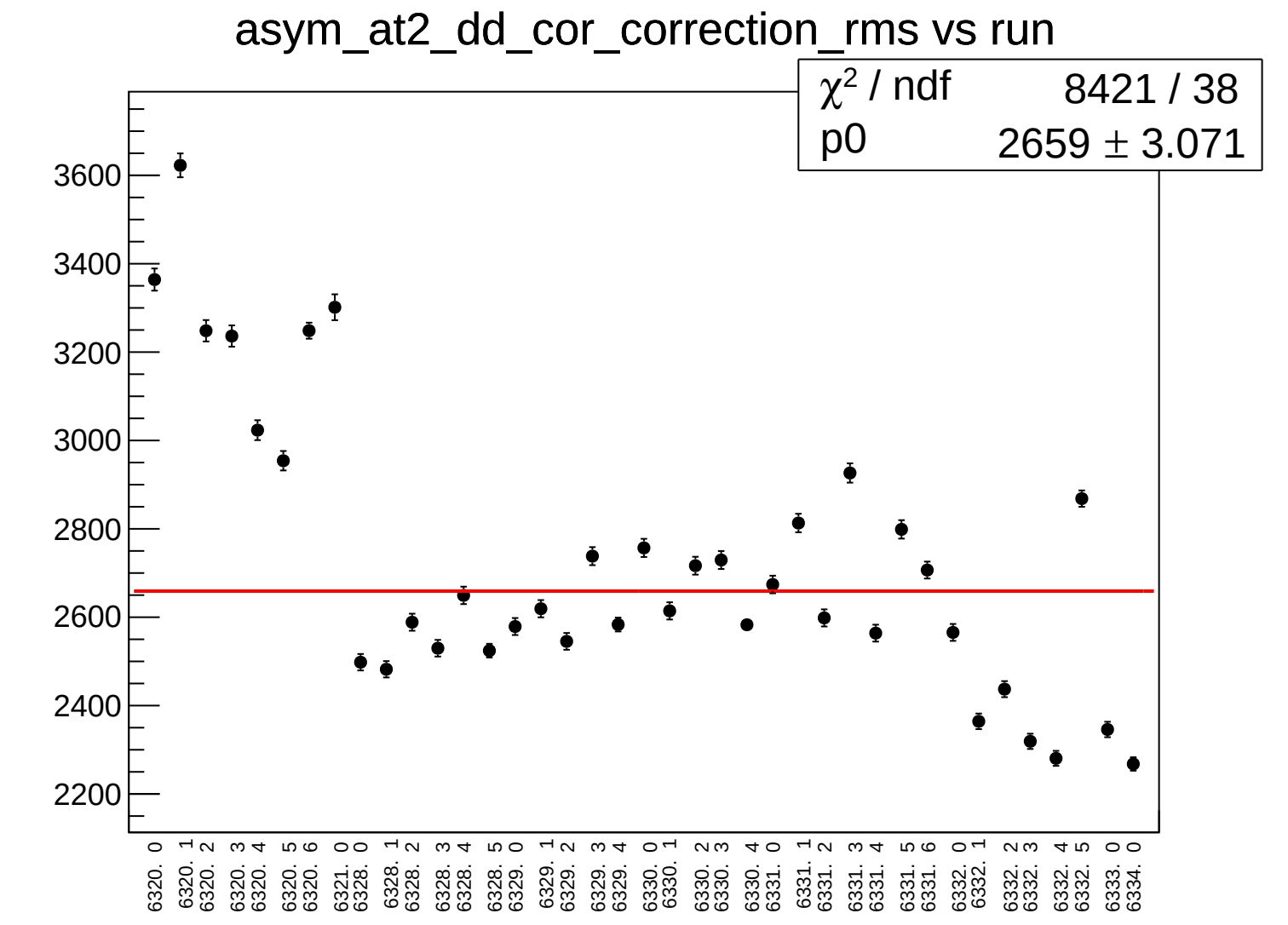

cor_asym_at2_dd_mean vs run
χ² / ndf 16.79 / 38
p0 4946 ± 3718
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

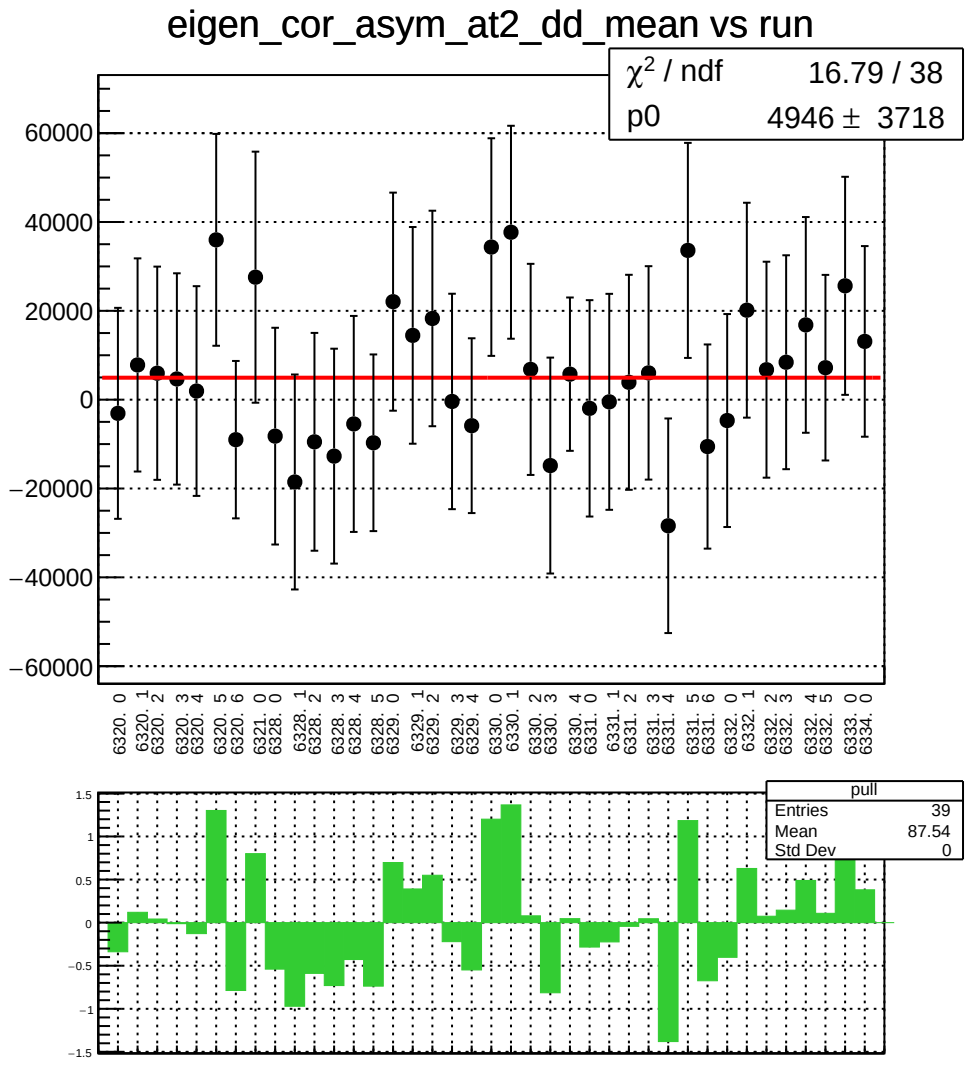

pull1D
Entries 39
Mean 0.01648
Std Dev 0.656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

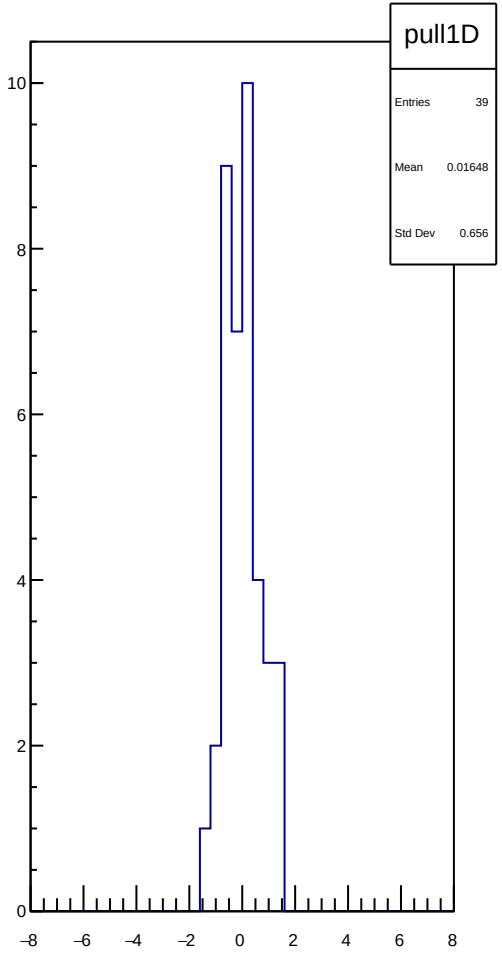

cor_asym_at2_dd_rms vs run
χ² / ndf 78.16 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

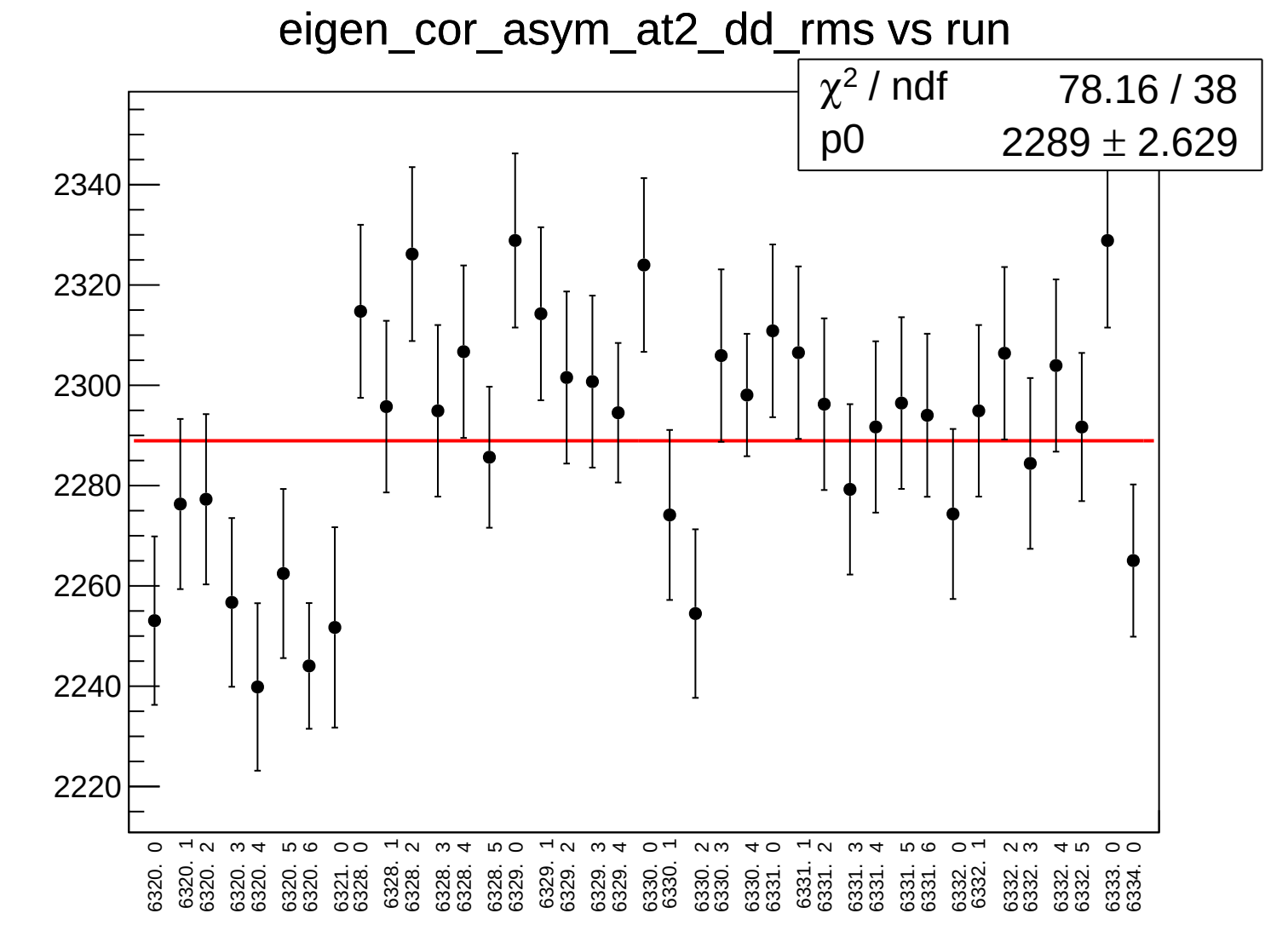

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 26.81 / 38
p0 4288 ± 4343
pull
Entries 39
Mean −250
Std Dev 0

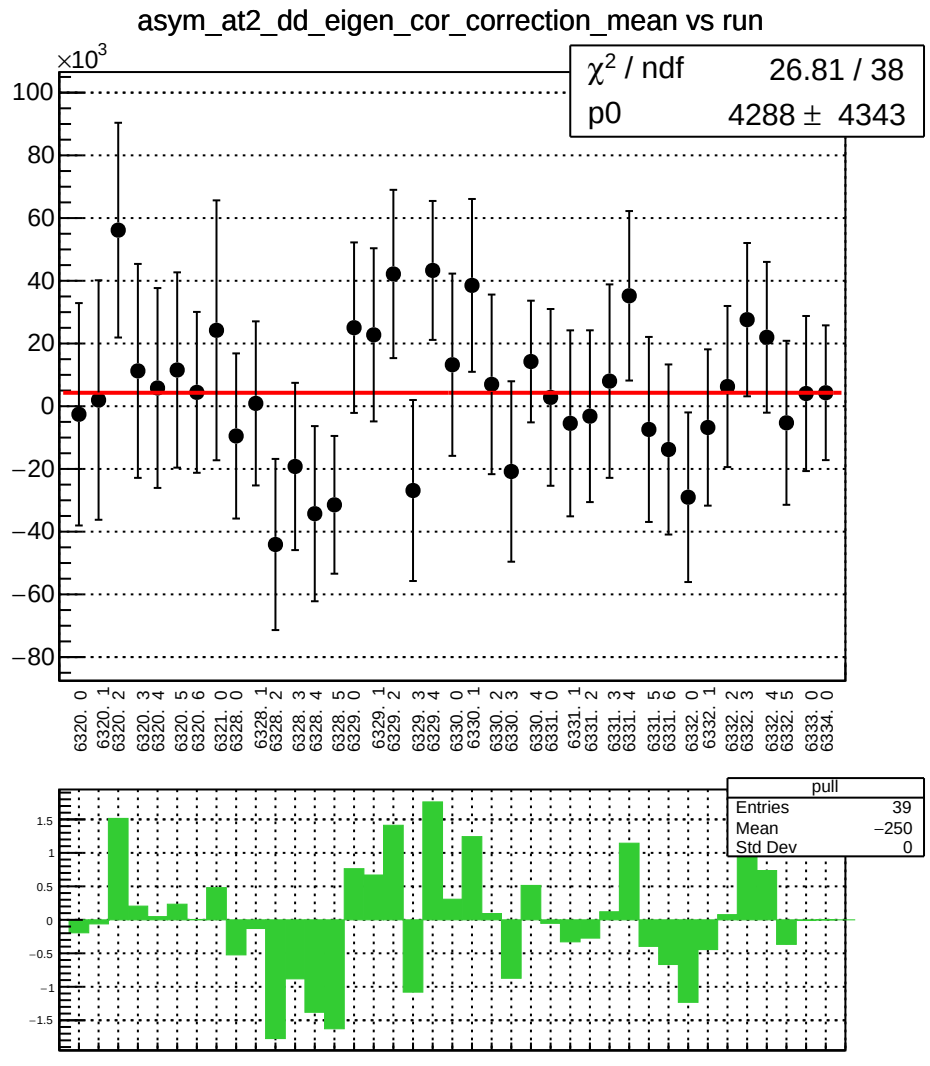

pull1D
Entries 39
Mean −0.0001887
Std Dev 0.8291

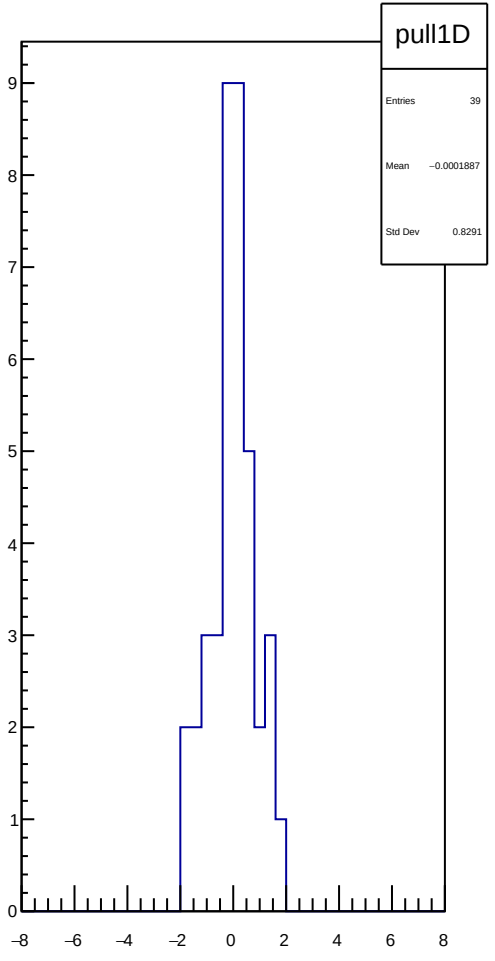

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 8421 / 38
p0 2659 ± 3.071
3600
3400
3200
3000
2800
2600
2400
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

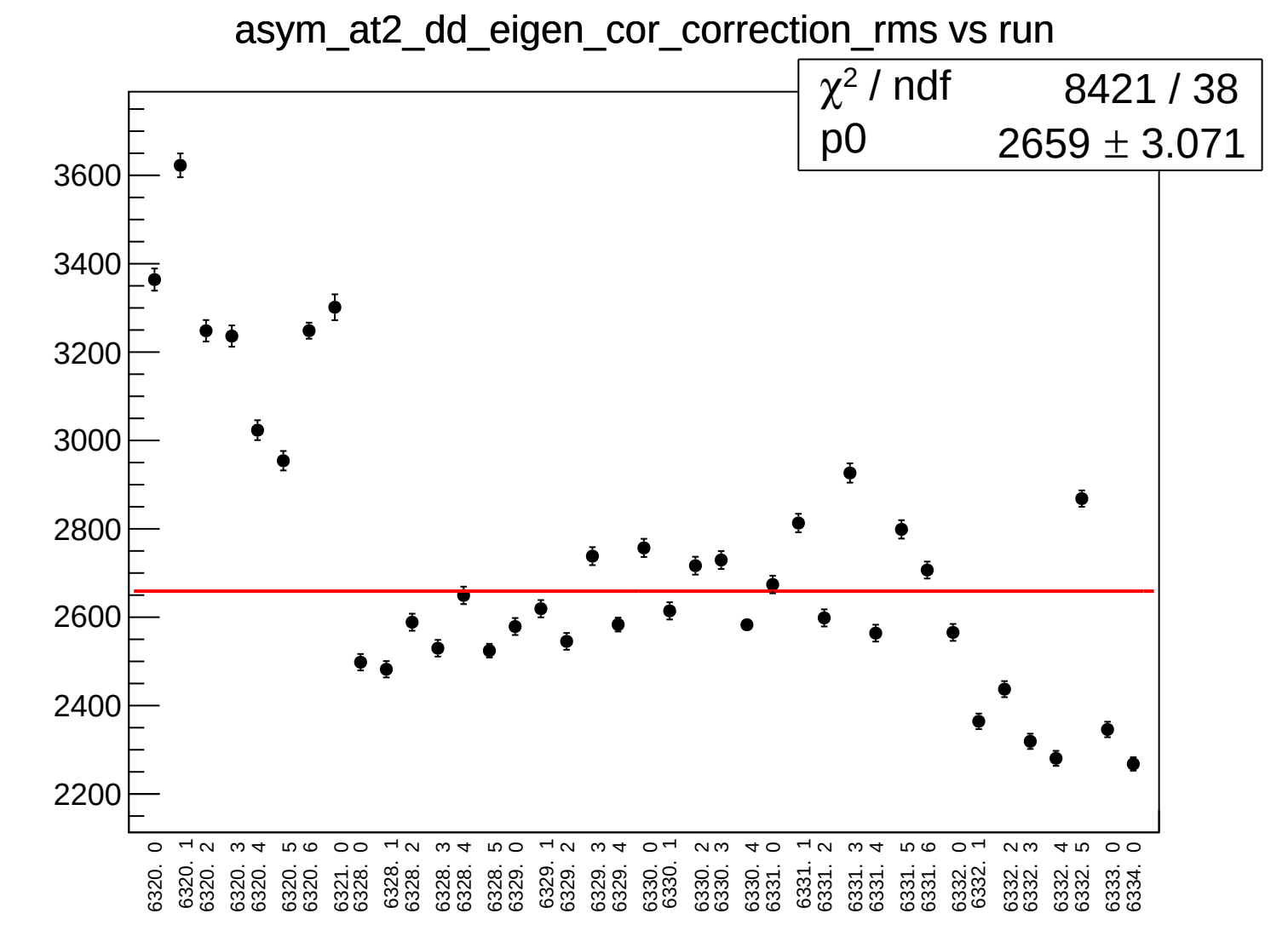

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 16.79 / 38
p0 4946 ± 3718
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

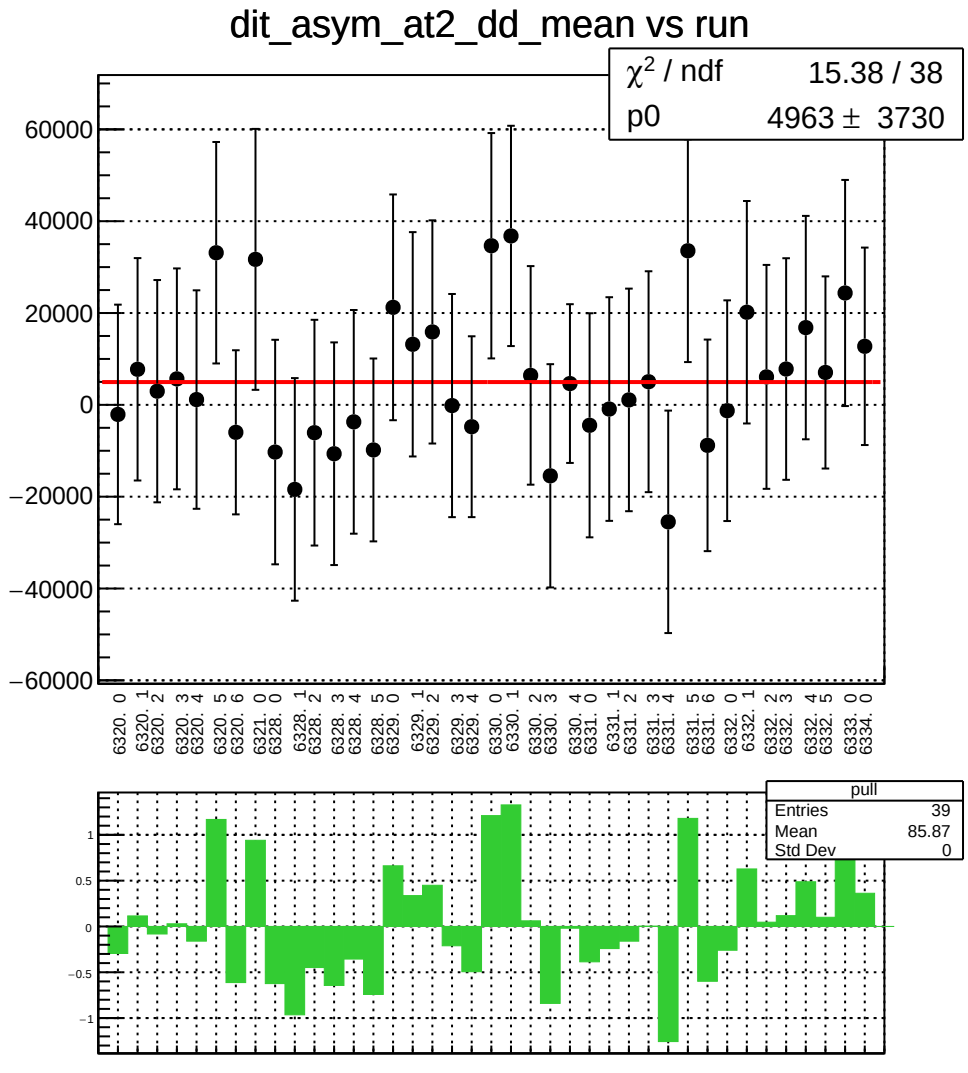

pull1D
Entries 39
Mean 0.01648
Std Dev 0.656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

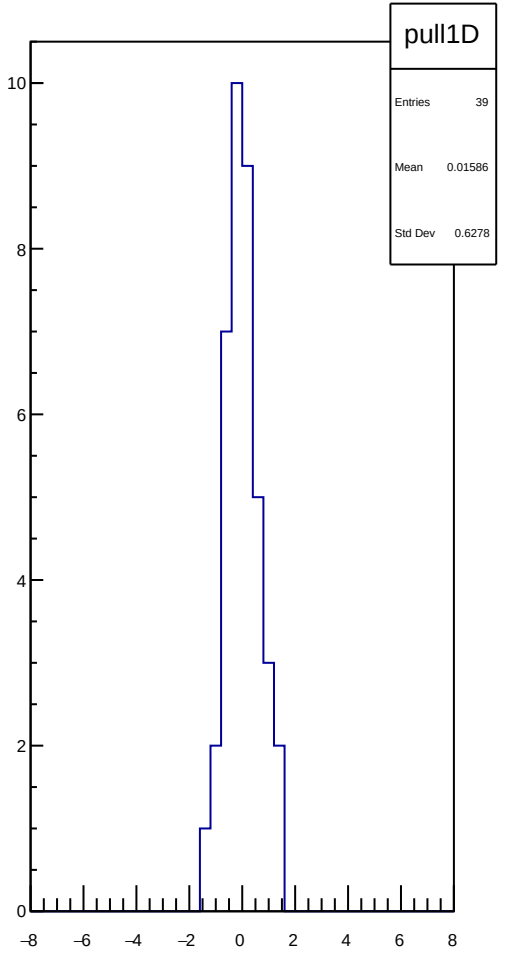

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 78.16 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

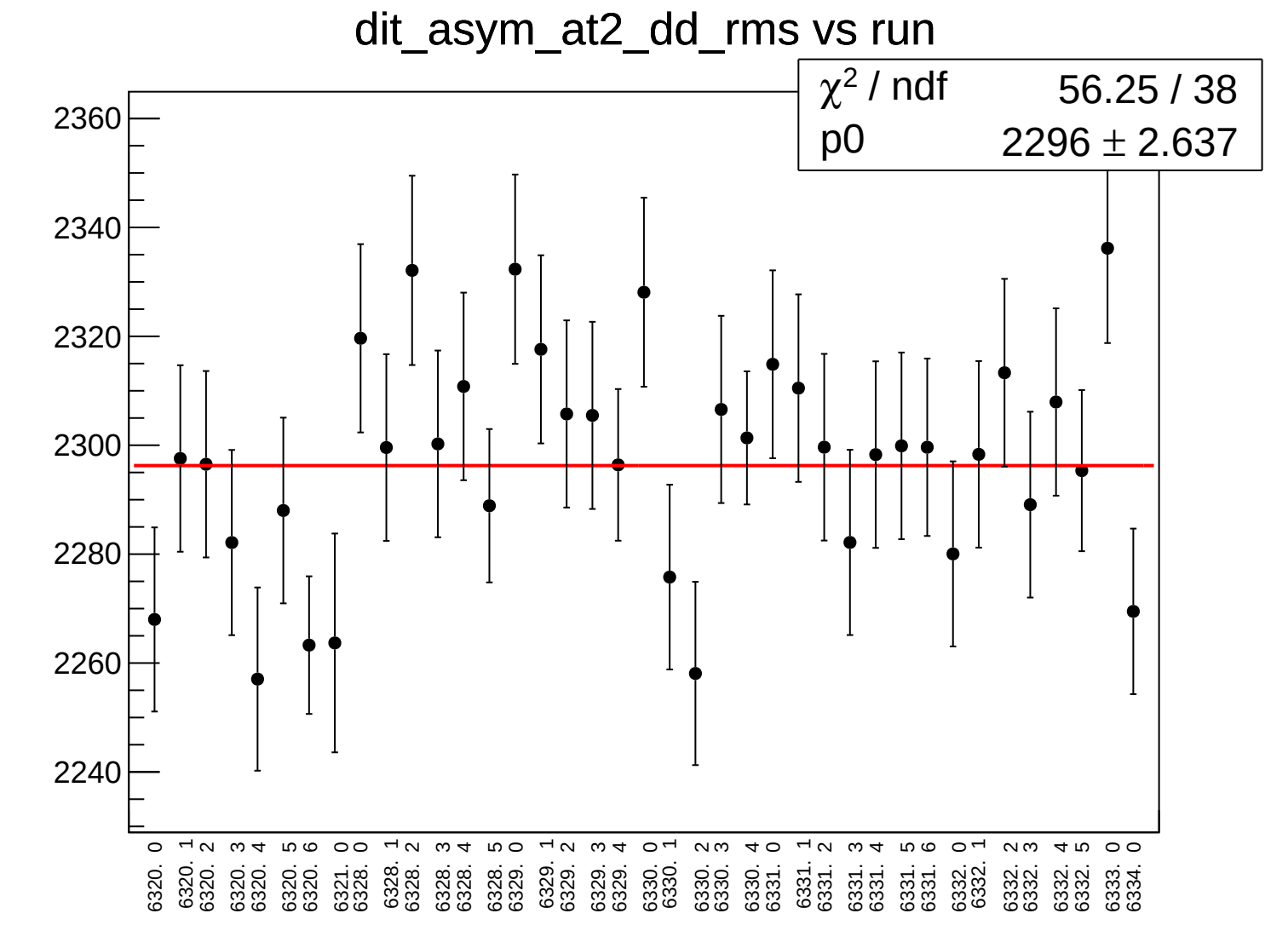

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 26.81 / 38
p0 4288 ± 4343
pull
Entries 39
Mean −250
Std Dev 0

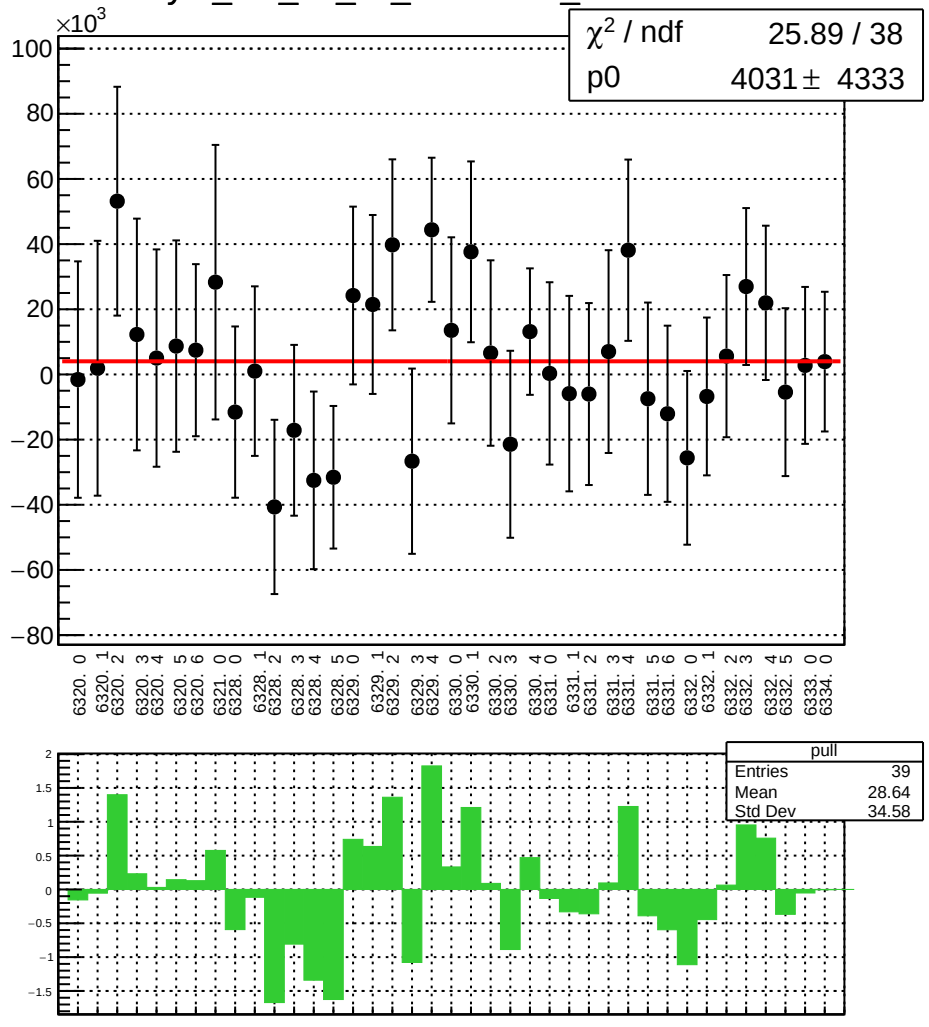

pull1D
Entries 39
Mean −0.0001887
Std Dev 0.8291

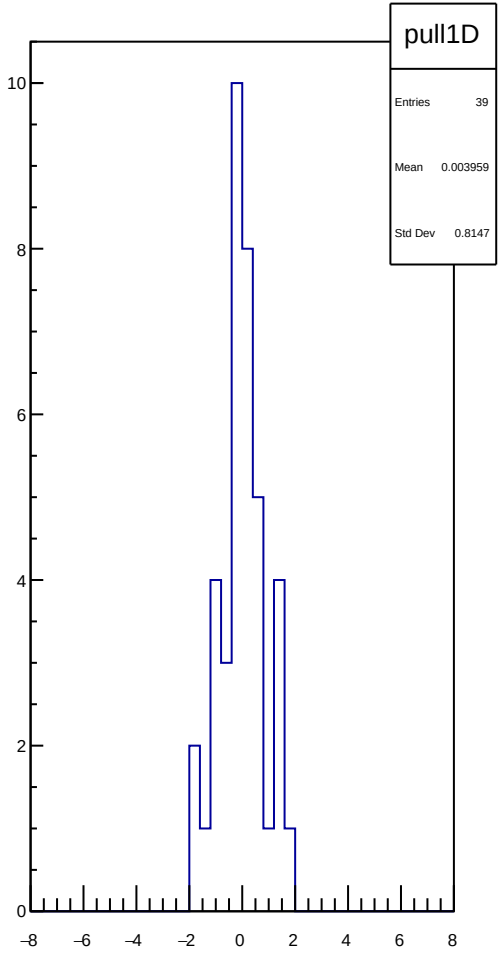

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8421 / 38
p0 2659 ± 3.071
3600
3400
3200
3000
2800
2600
2400
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

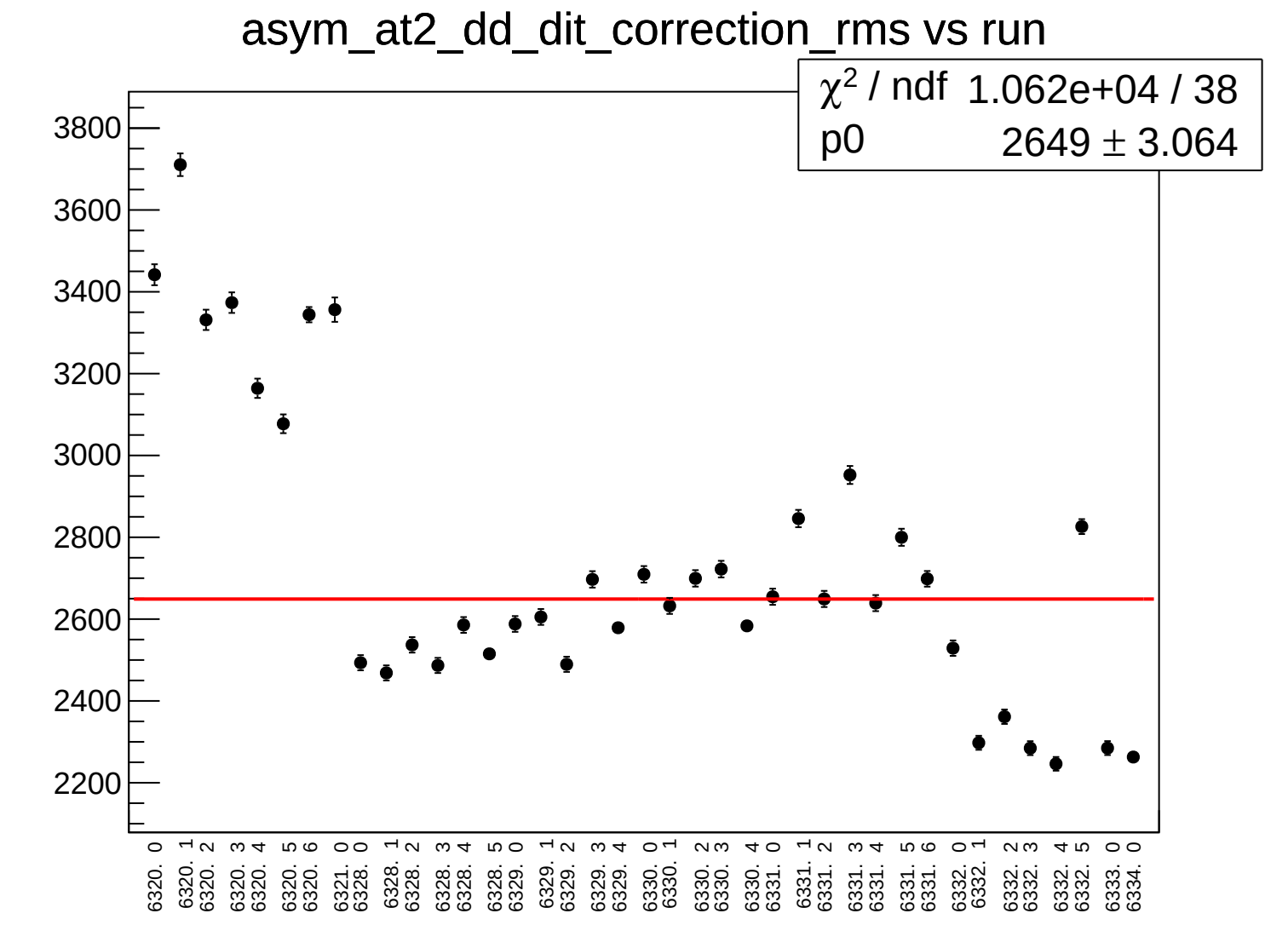

dit_asym_at2_dd_mean vs run
χ² / ndf 15.38 / 38
p0 4963 ± 3730
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 85.87
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 39
Mean 0.01586
Std Dev 0.6278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_dd_rms vs run
χ² / ndf 56.25 / 38
p0 2296 ± 2.637
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 25.89 / 38
p0 4031 ± 4333
pull
Entries 39
Mean 28.64
Std Dev 34.58


pull1D
Entries 39
Mean 0.003959
Std Dev 0.8147


asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.062e+04 / 38
p0 2649 ± 3.064
3800
3600
3400
3200
3000
2800
2600
2400
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
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6331. 1
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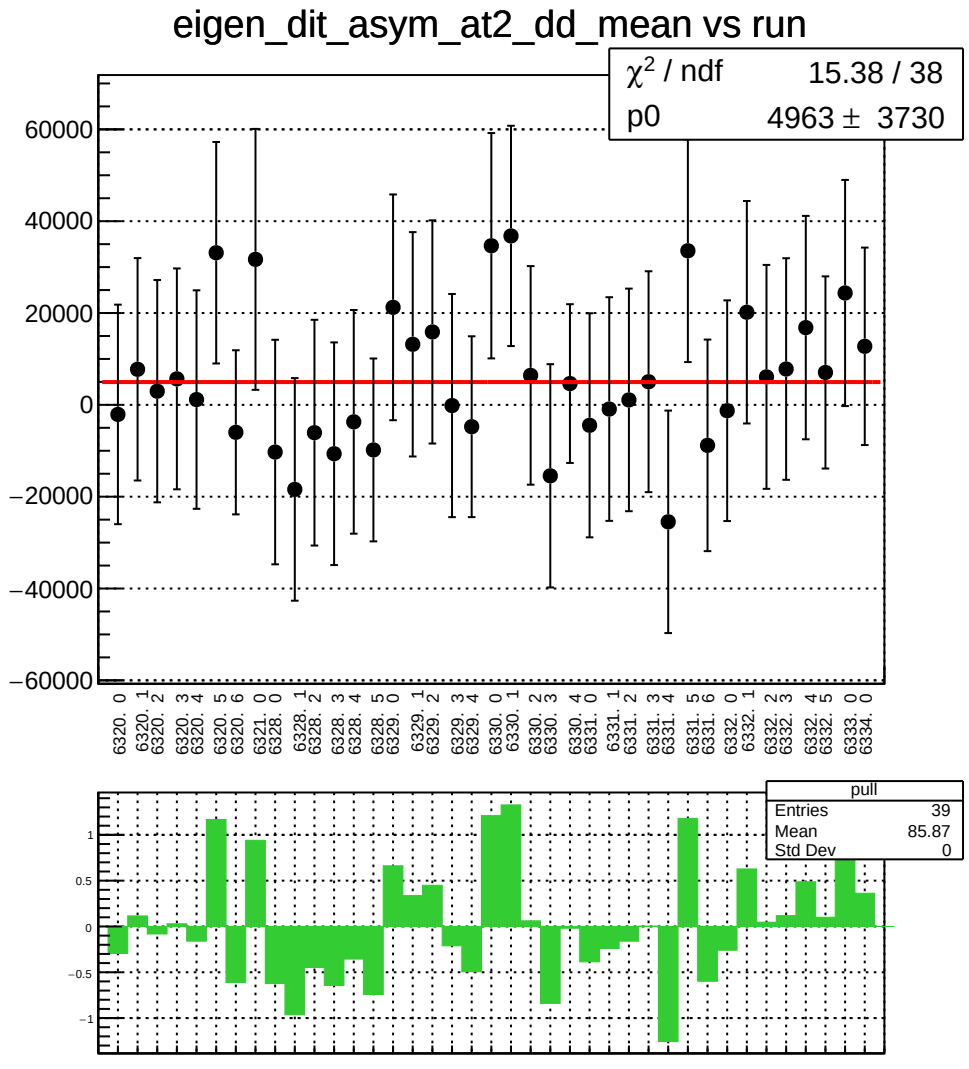
eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 15.38 / 38
p0 4963 ± 3730
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
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6328. 2
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6329. 2
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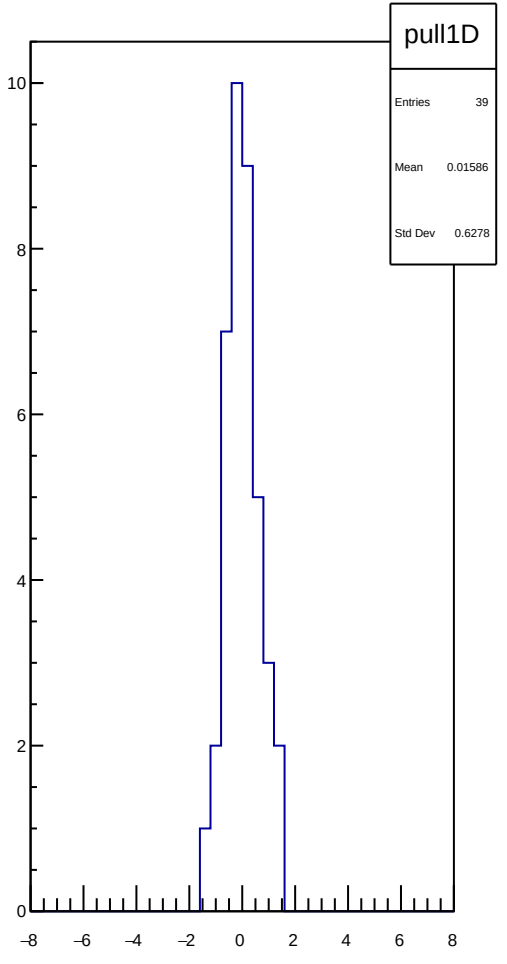
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 85.87
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 39
Mean 0.01586
Std Dev 0.6278
10
8
6
4
2
0
−8
−6
−4
−2
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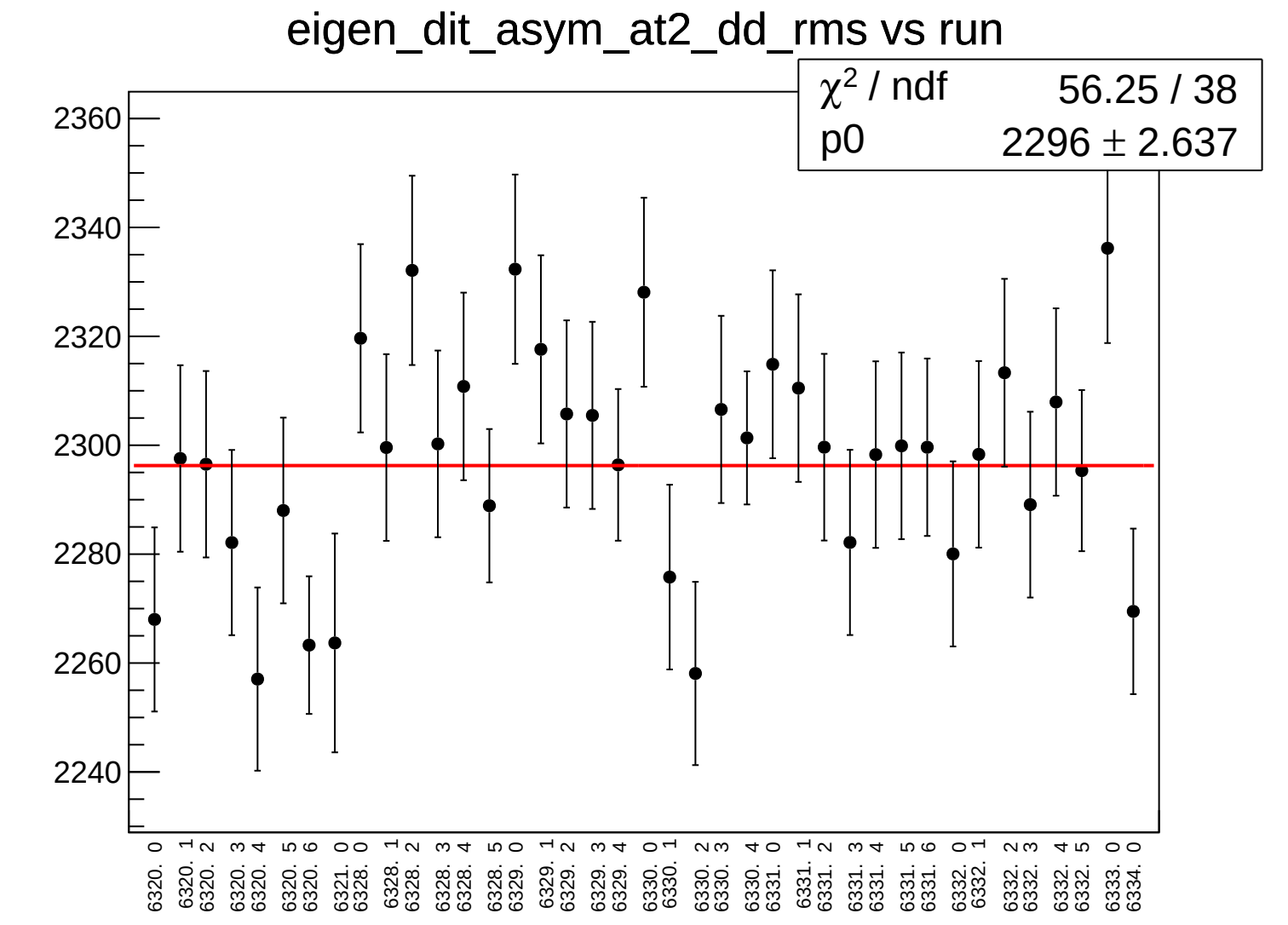
2
4
6
8


eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 56.25 / 38
p0 2296 ± 2.637
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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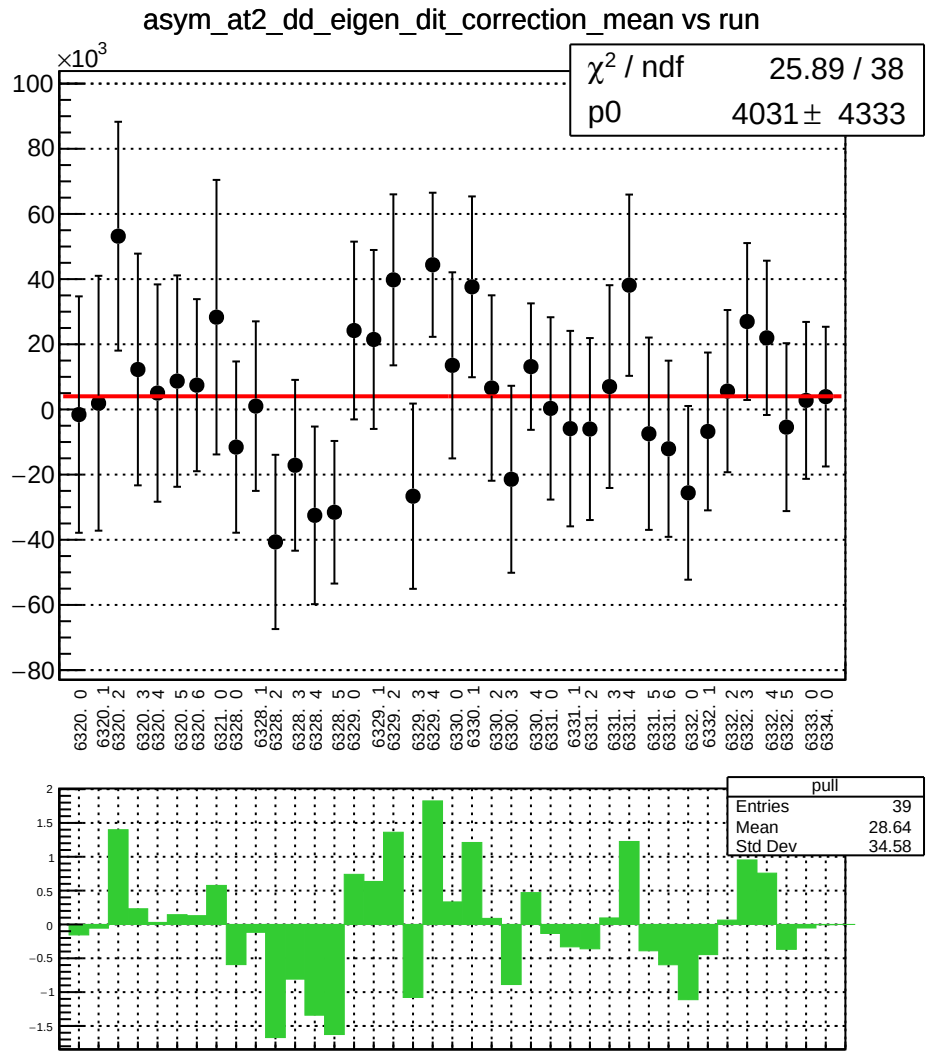
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 25.89 / 38
p0 4031 ± 4333
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6328. 1
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6329. 1
6329. 2
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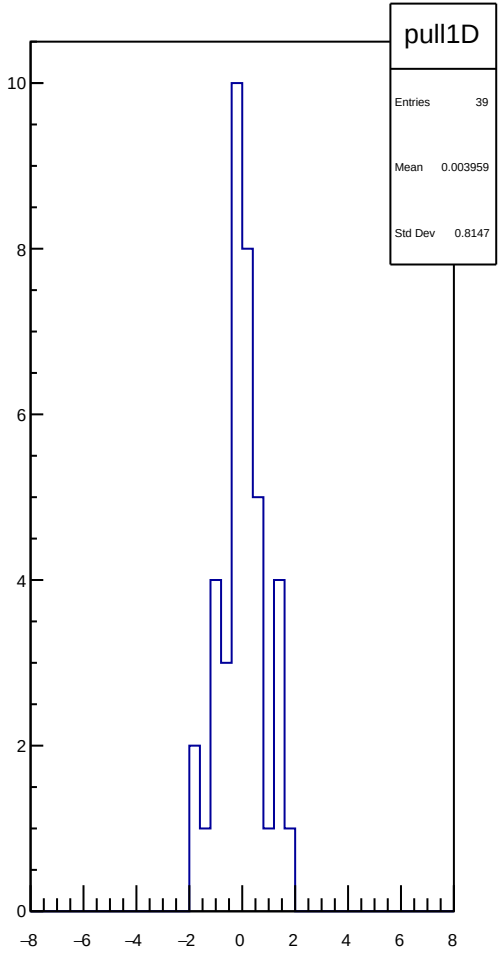
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.64
Std Dev 34.58
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.003959
Std Dev 0.8147
10
8
6
4
2
0
−8
−6
−4
−2
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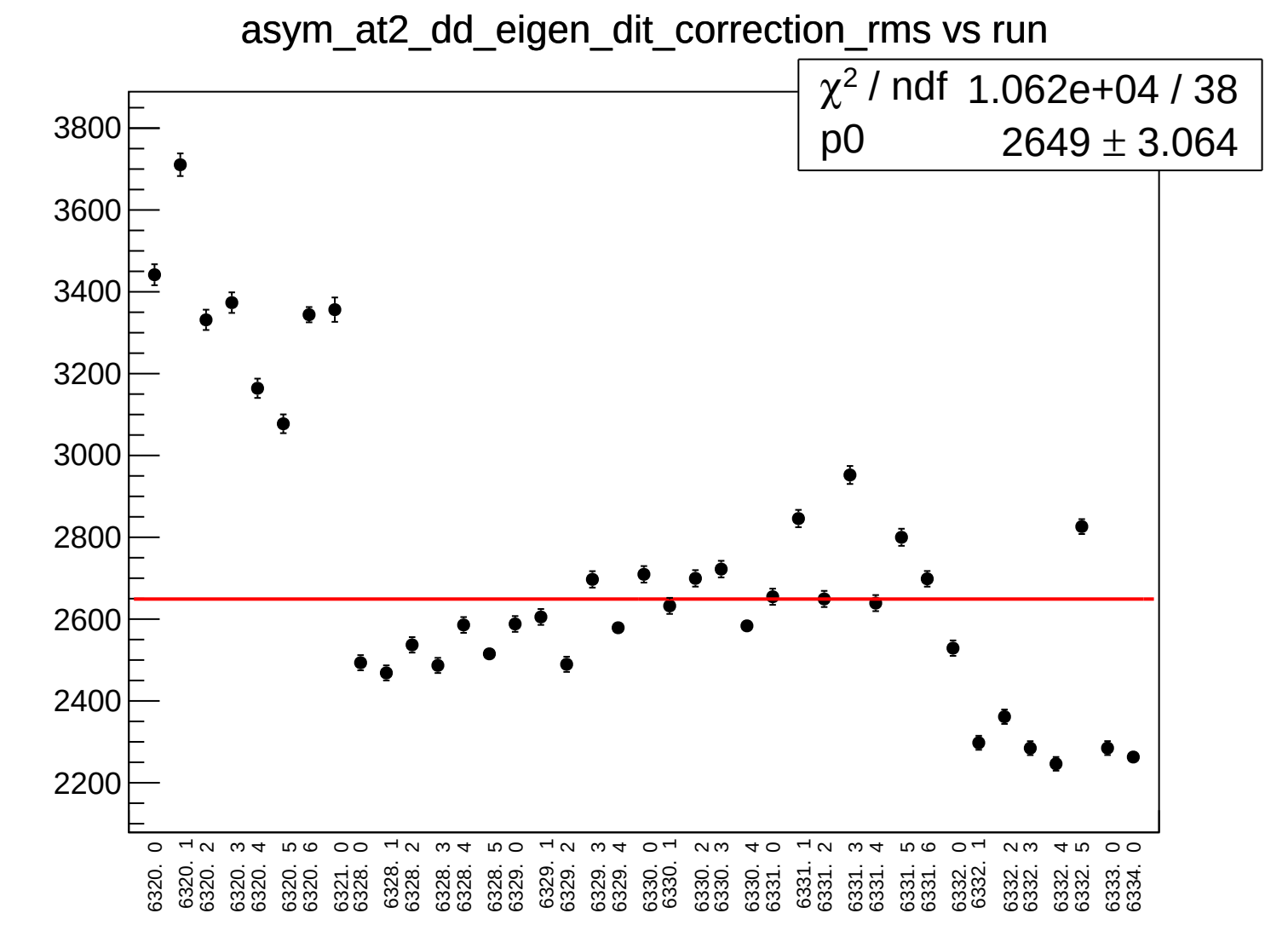
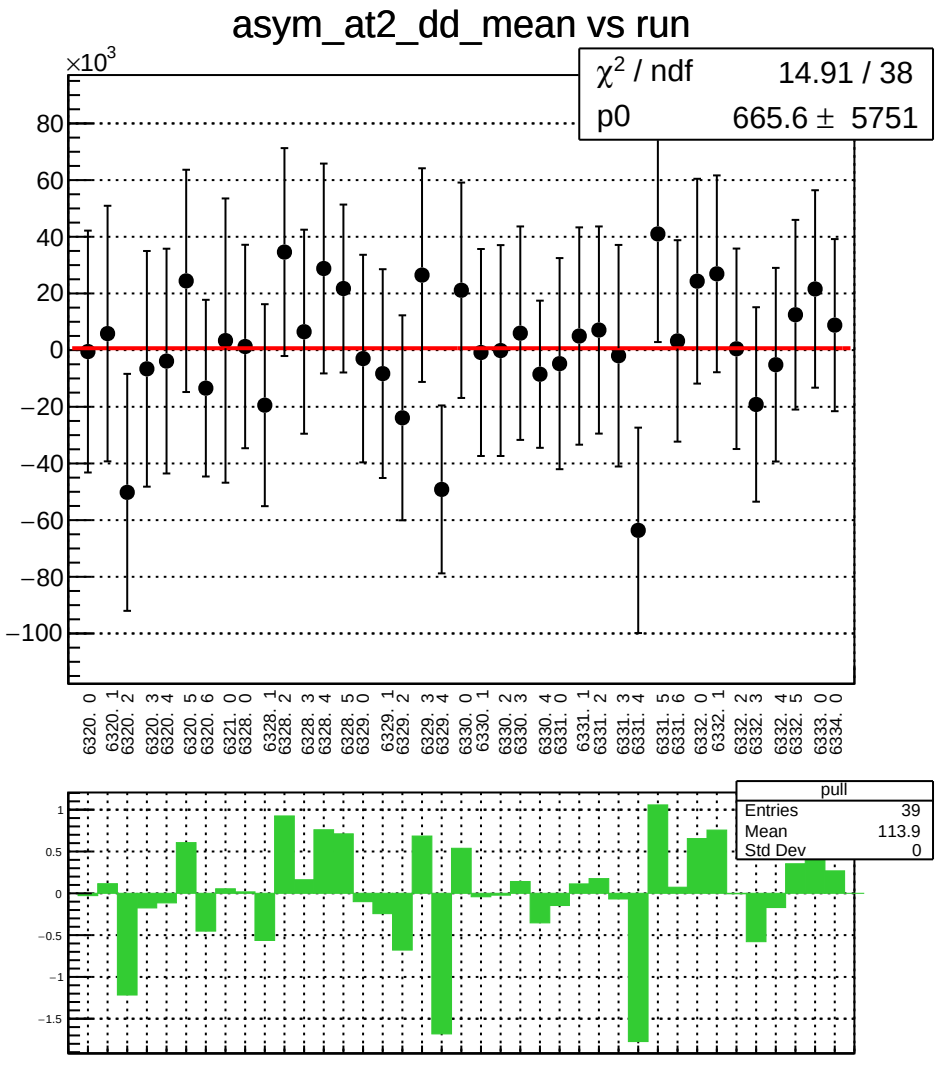
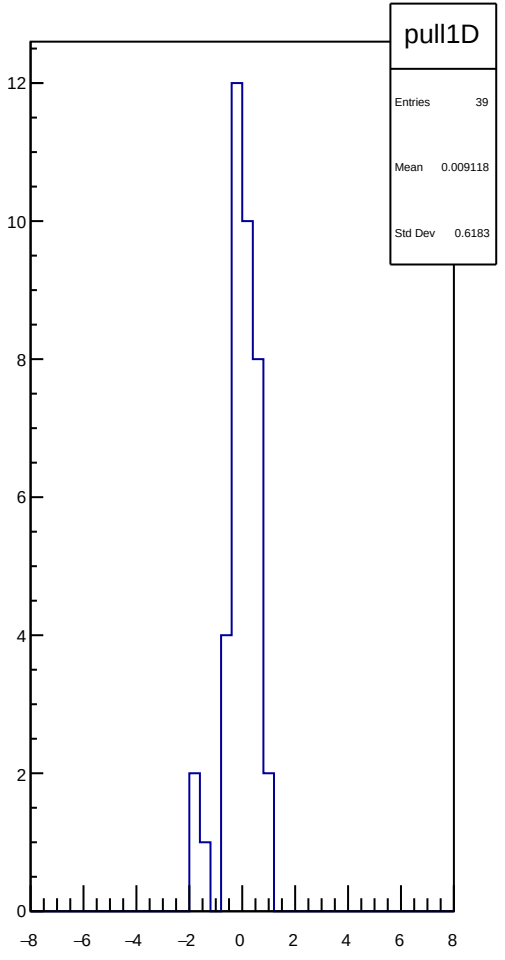
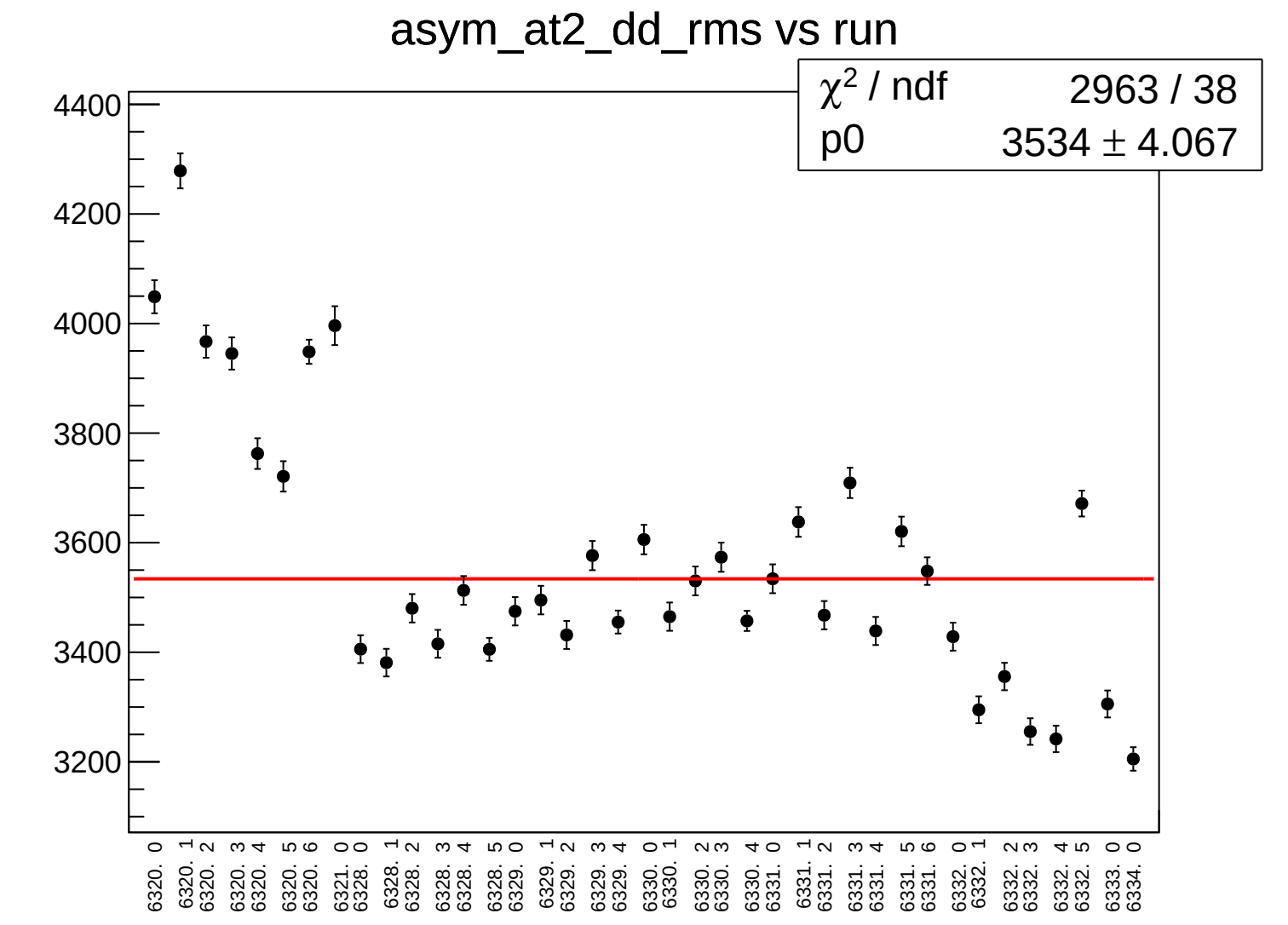
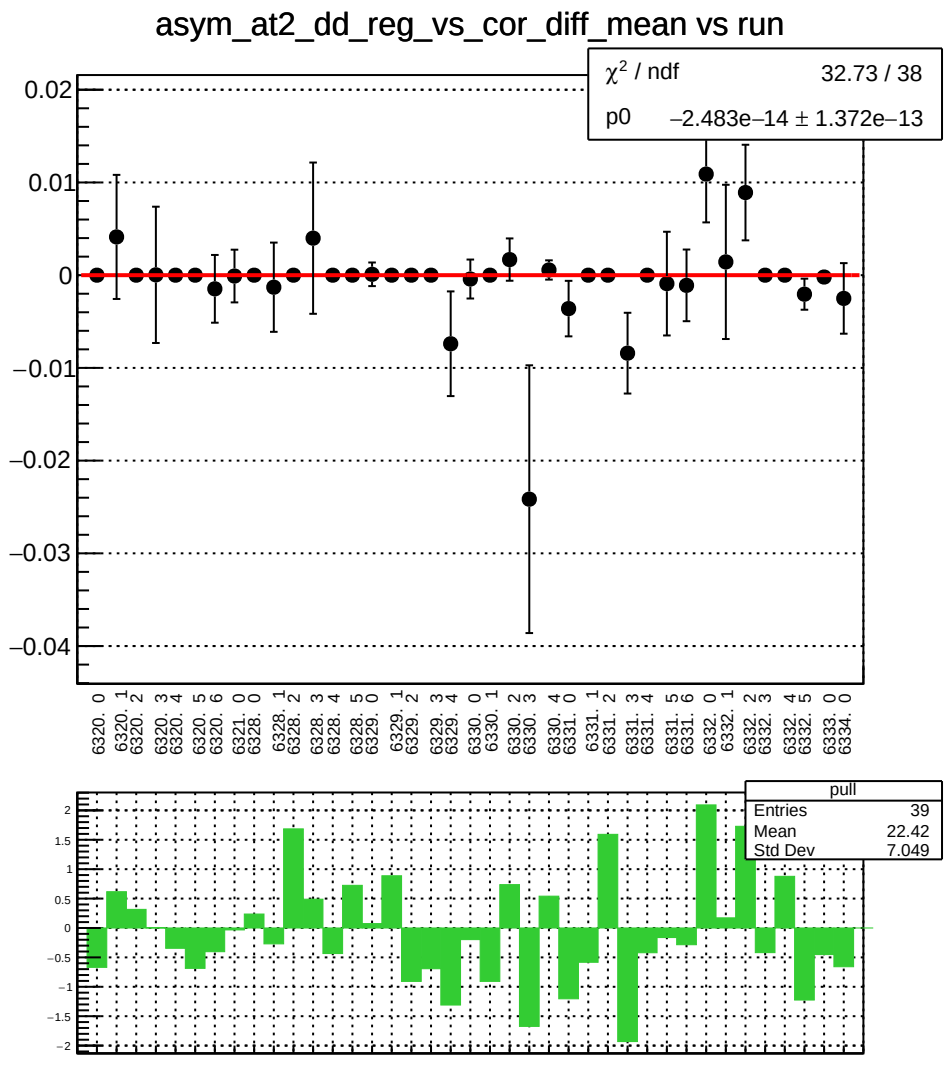
2
4
6
8

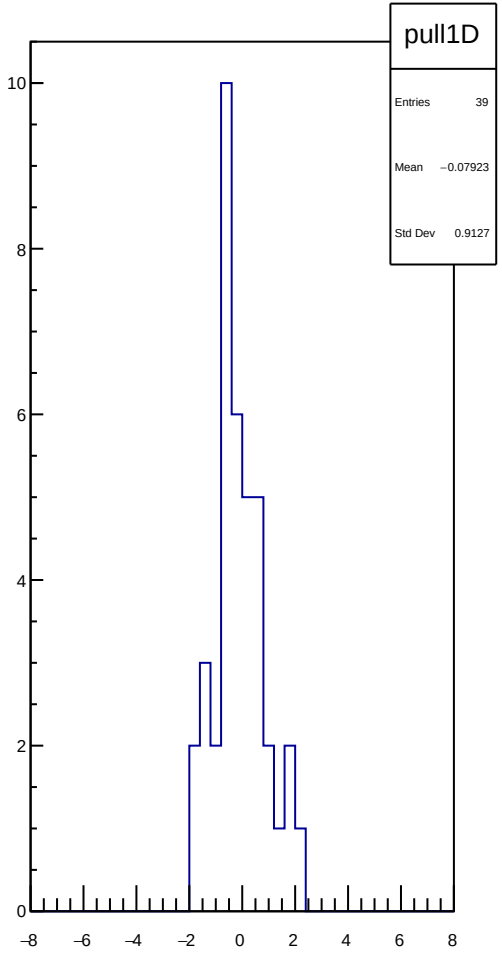

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.062e+04 / 38
p0 2649 ± 3.064
3800
3600
3400
3200
3000
2800
2600
2400
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

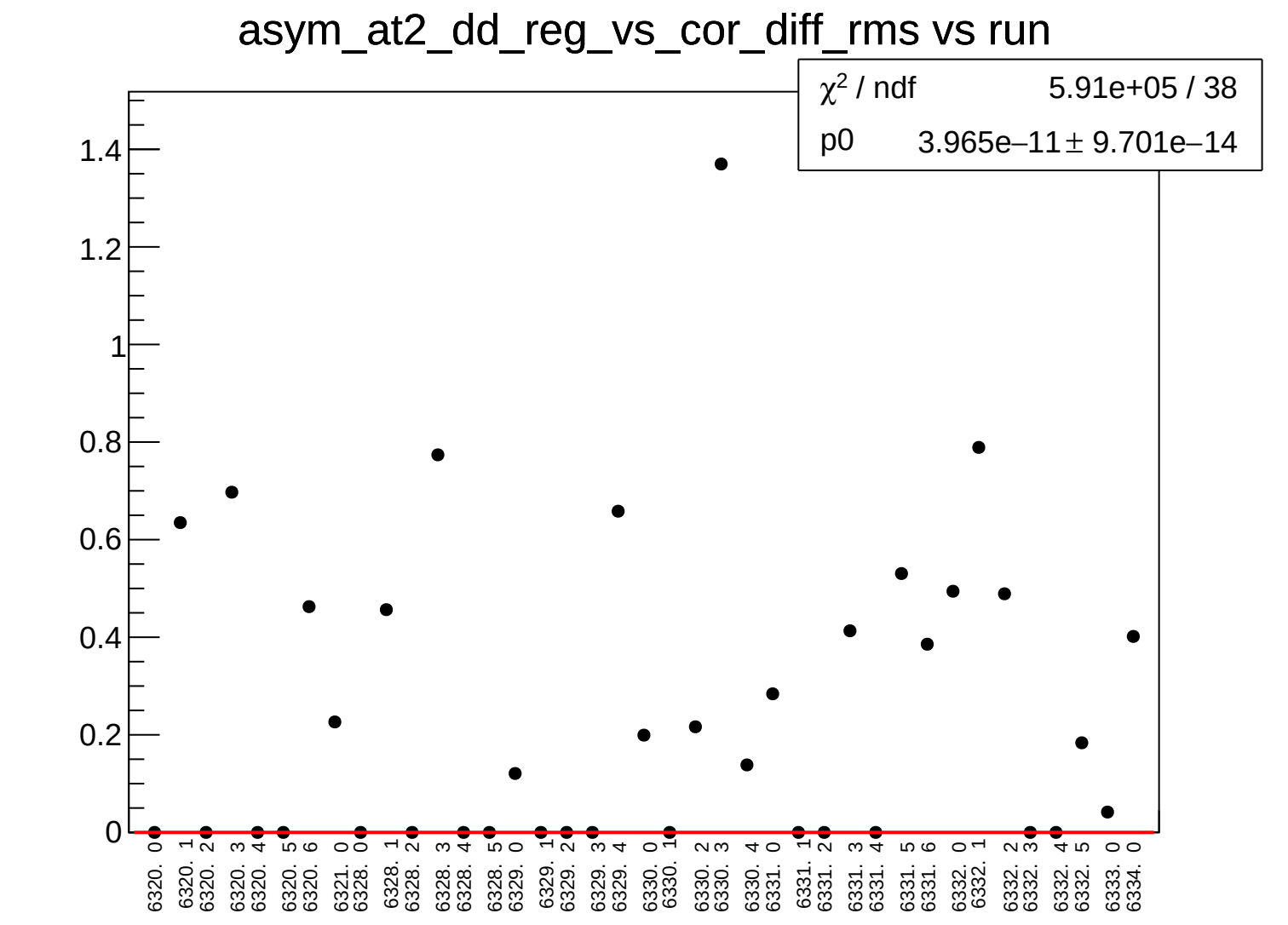

asym_at2_dd_mean vs run
×10^3
χ² / ndf 14.91 / 38
p0 665.6 ± 5751
80
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 113.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

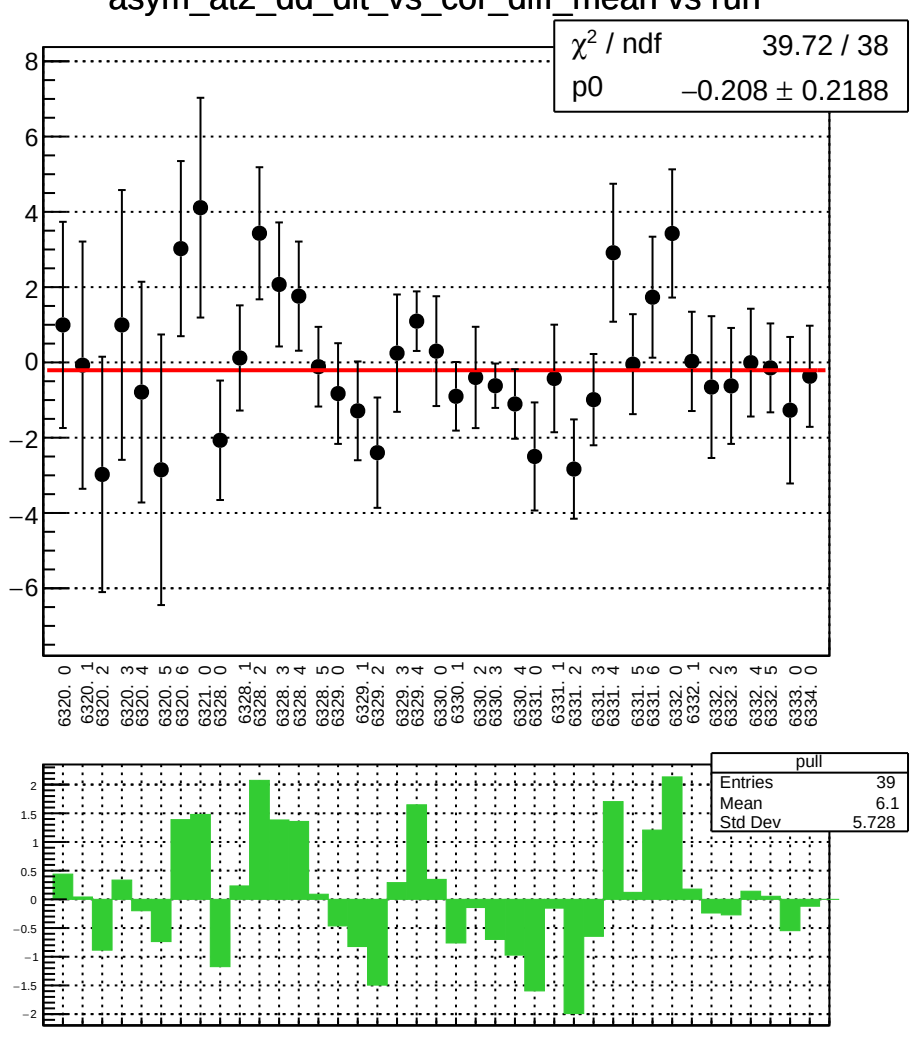

pull1D
Entries 39
Mean 0.009118
Std Dev 0.6183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

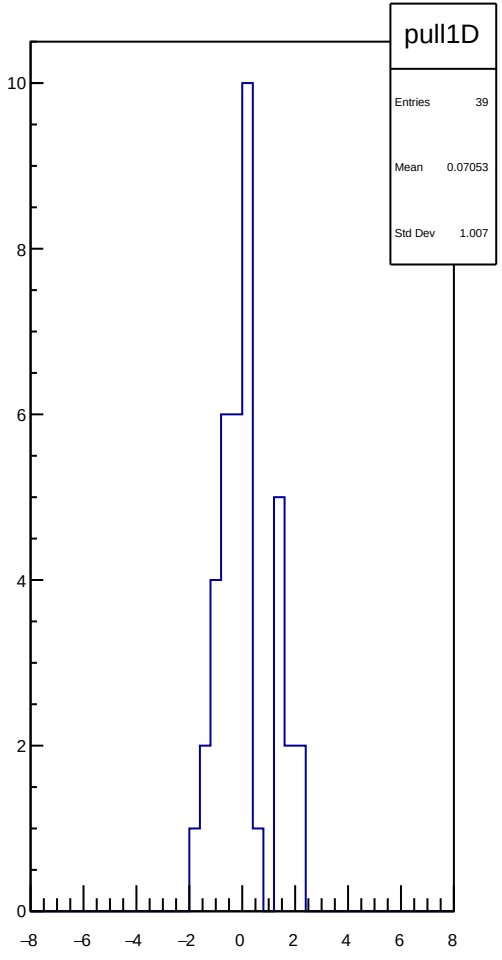

asym_at2_dd_rms vs run
χ² / ndf 2963 / 38
p0 3534 ± 4.067
4400
4200
4000
3800
3600
3400
3200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

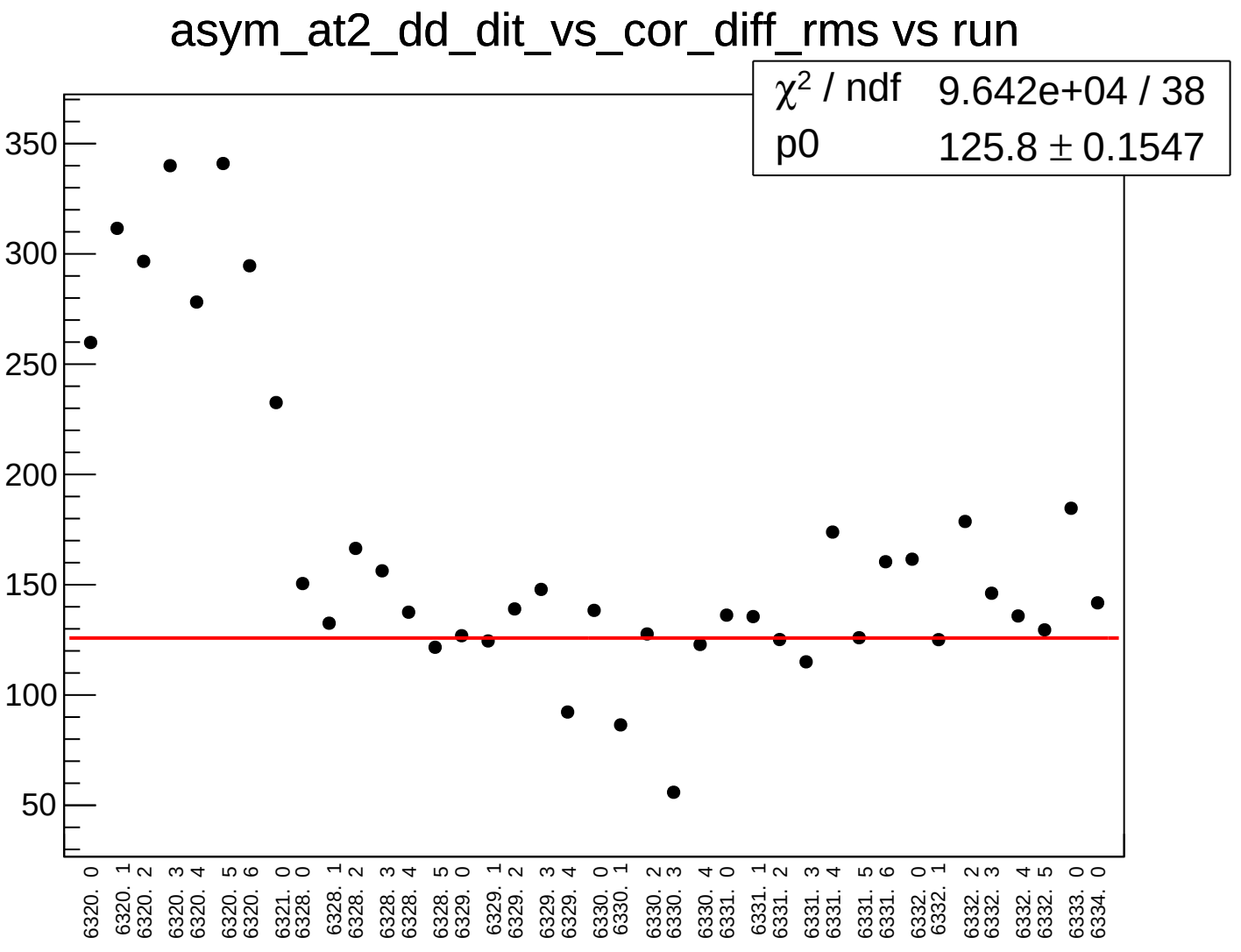

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.73 / 38
p0 −2.483e−14 ± 1.372e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 22.42
Std Dev 7.049
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

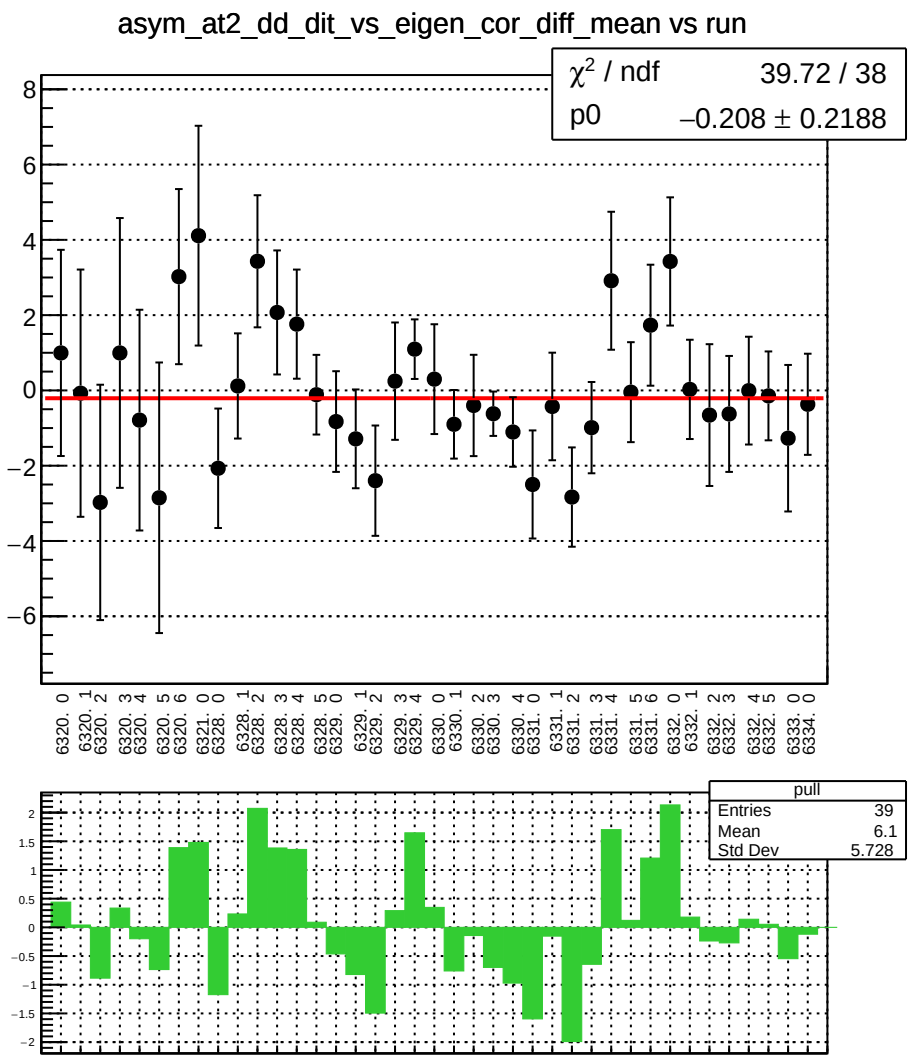

pull1D
Entries 39
Mean −0.07923
Std Dev 0.9127
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

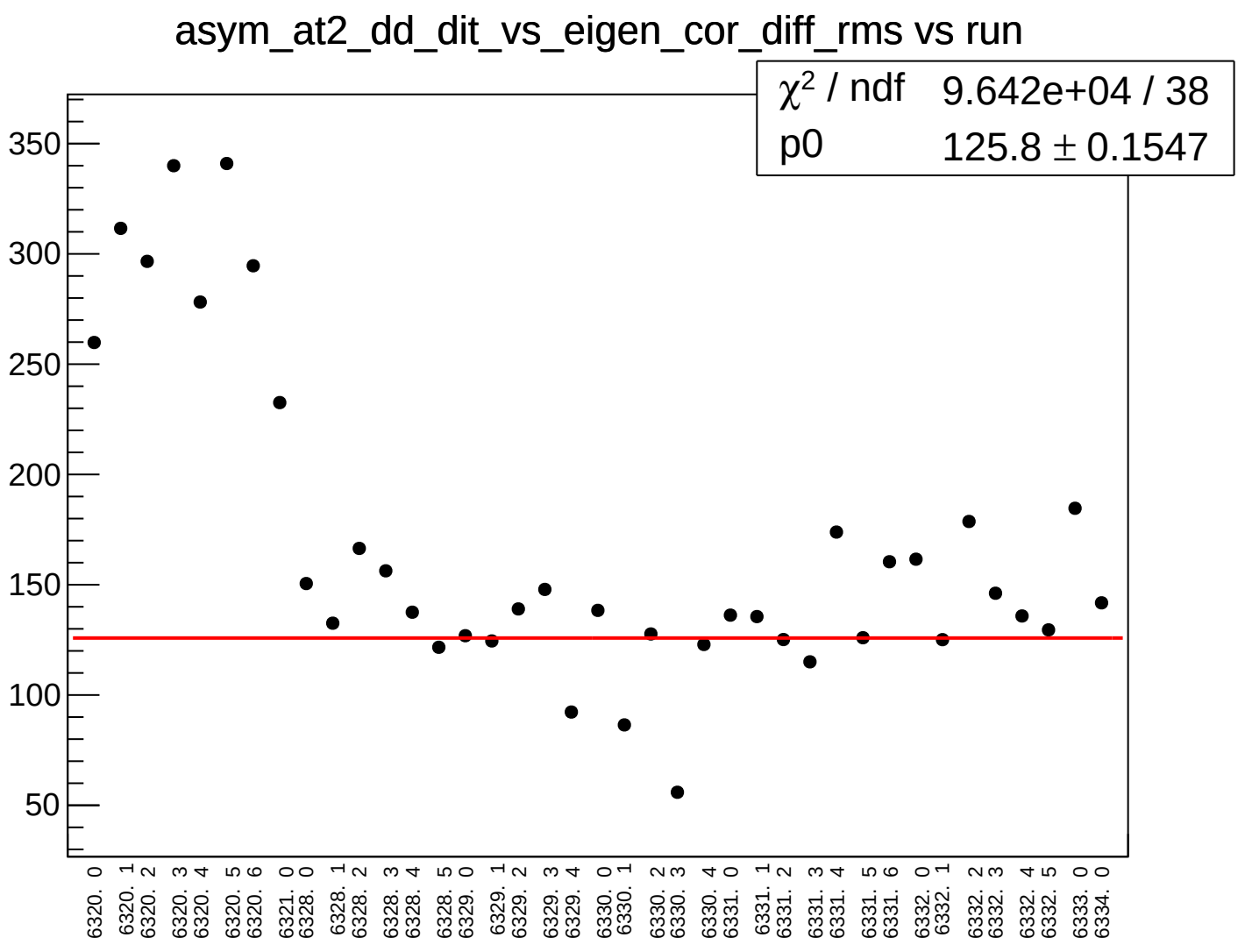

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.91e+05 / 38
p0 3.965e−11 ± 9.701e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

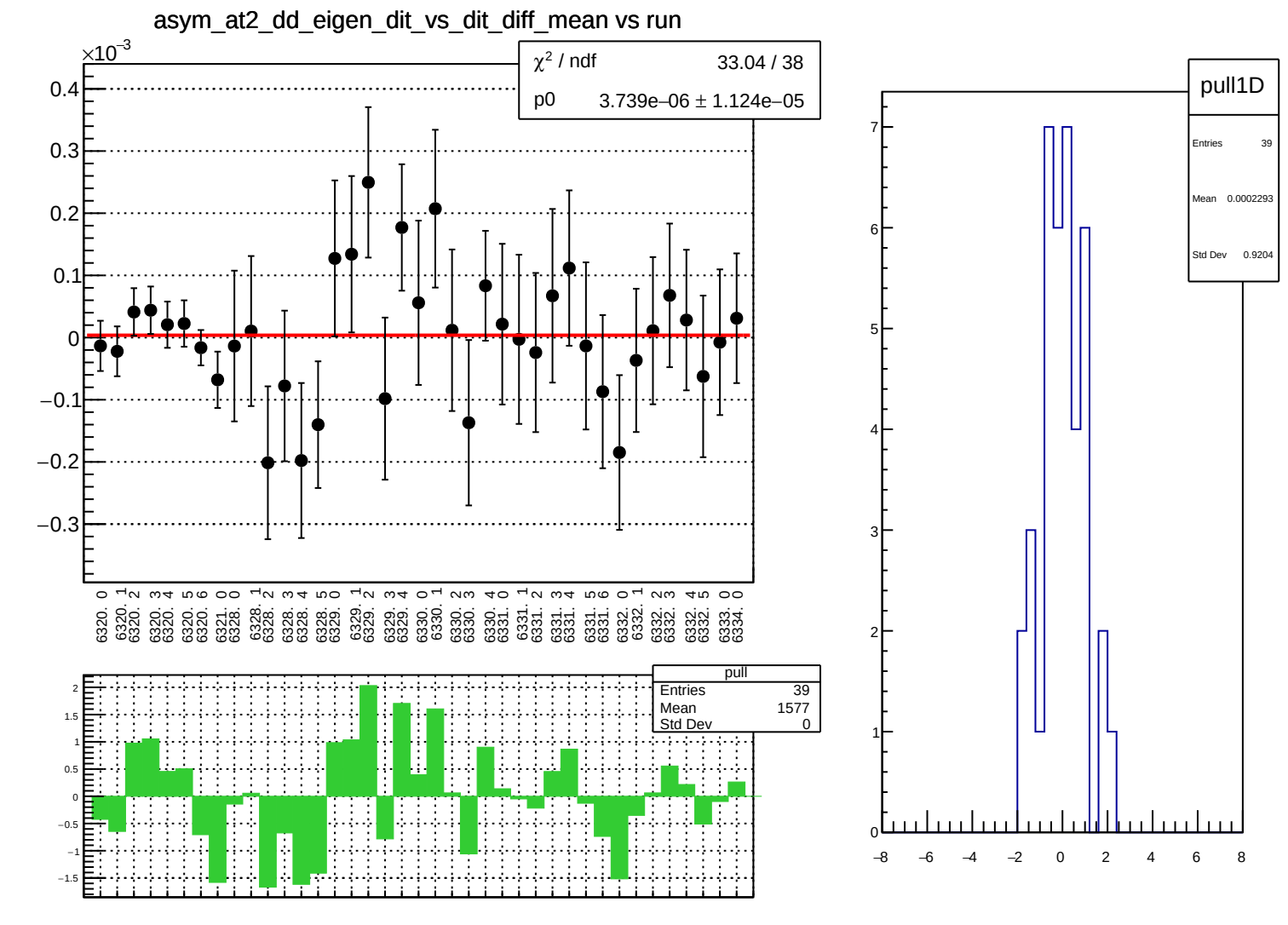

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.72 / 38
p0 −0.208 ± 0.2188
pull
Entries 39
Mean 6.1
Std Dev 5.728

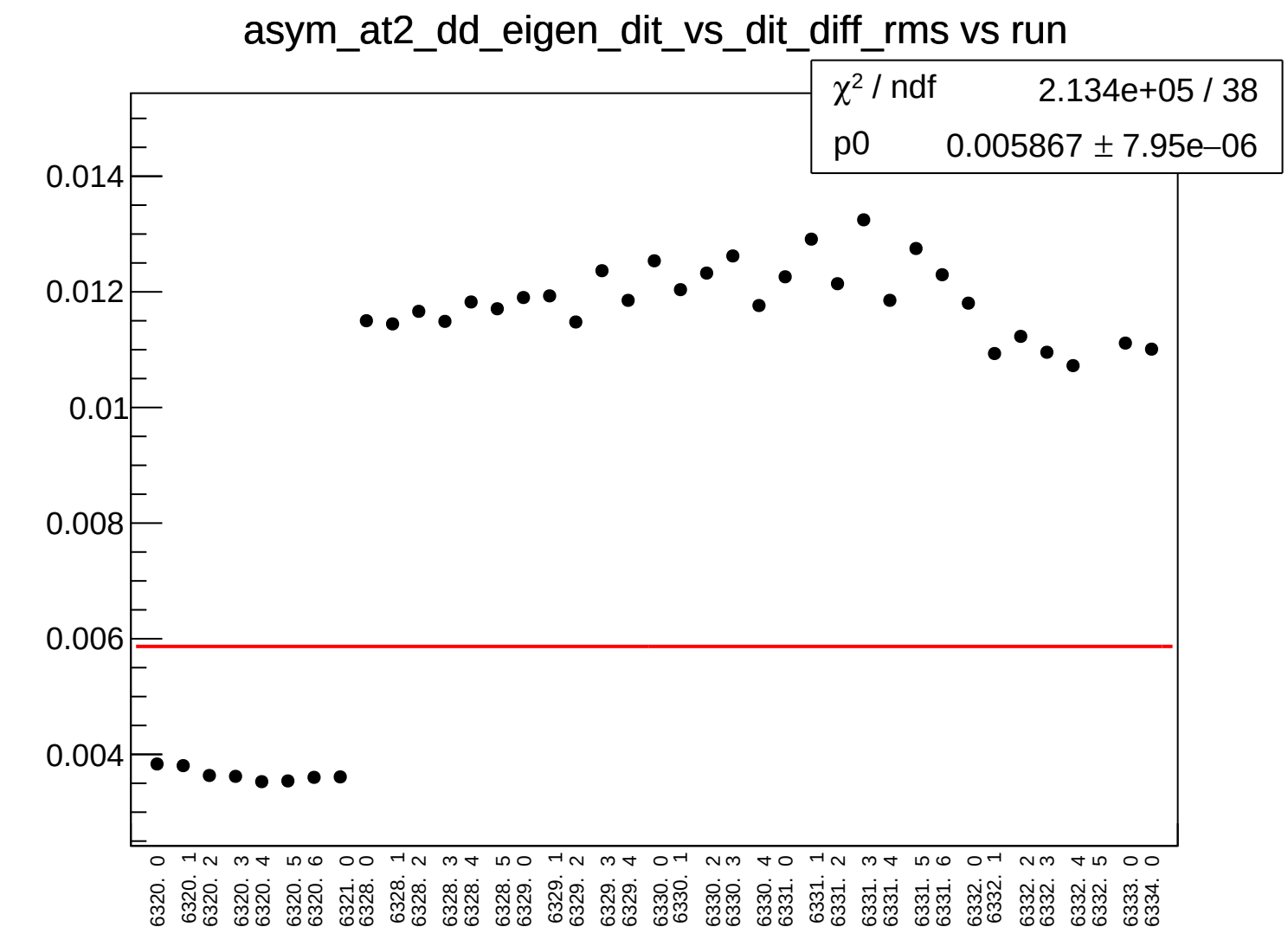

pull1D
Entries 39
Mean 0.07053
Std Dev 1.007

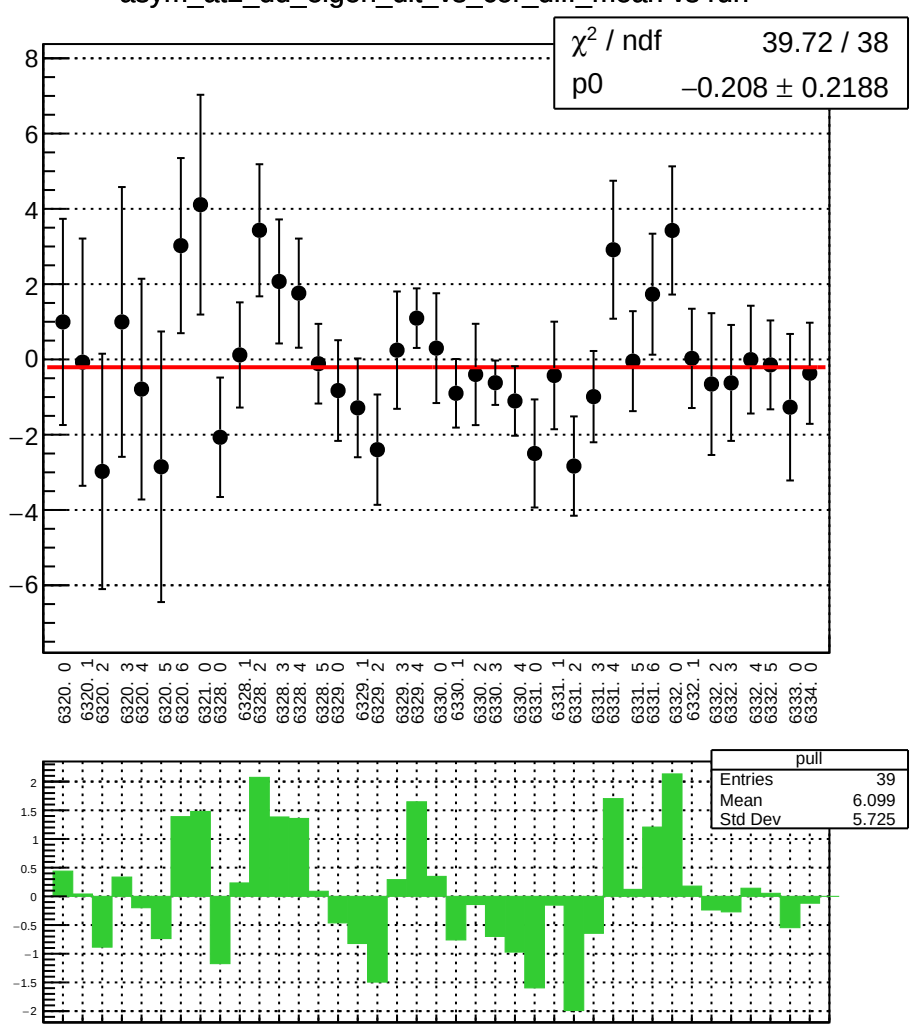

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 38
p0 125.8 ± 0.1547
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

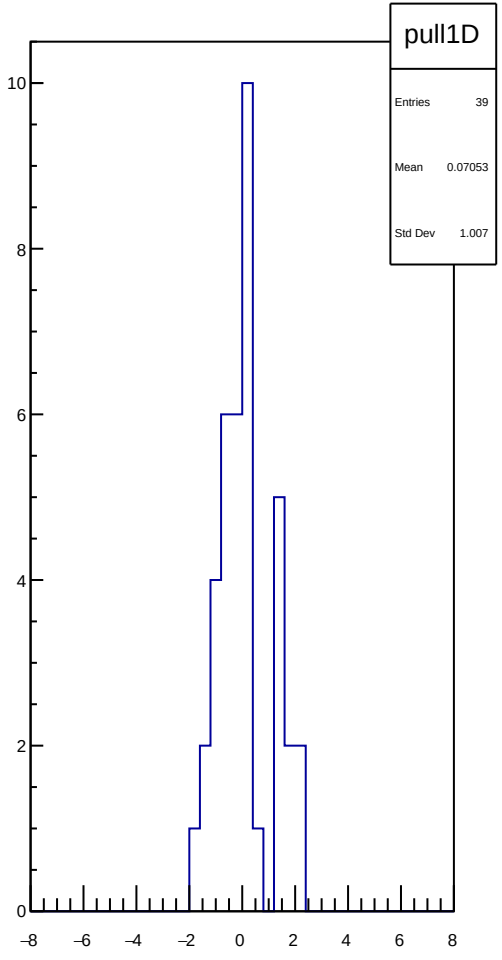

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.72 / 38
p0 −0.208 ± 0.2188
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.1
Std Dev 5.728
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.07053
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

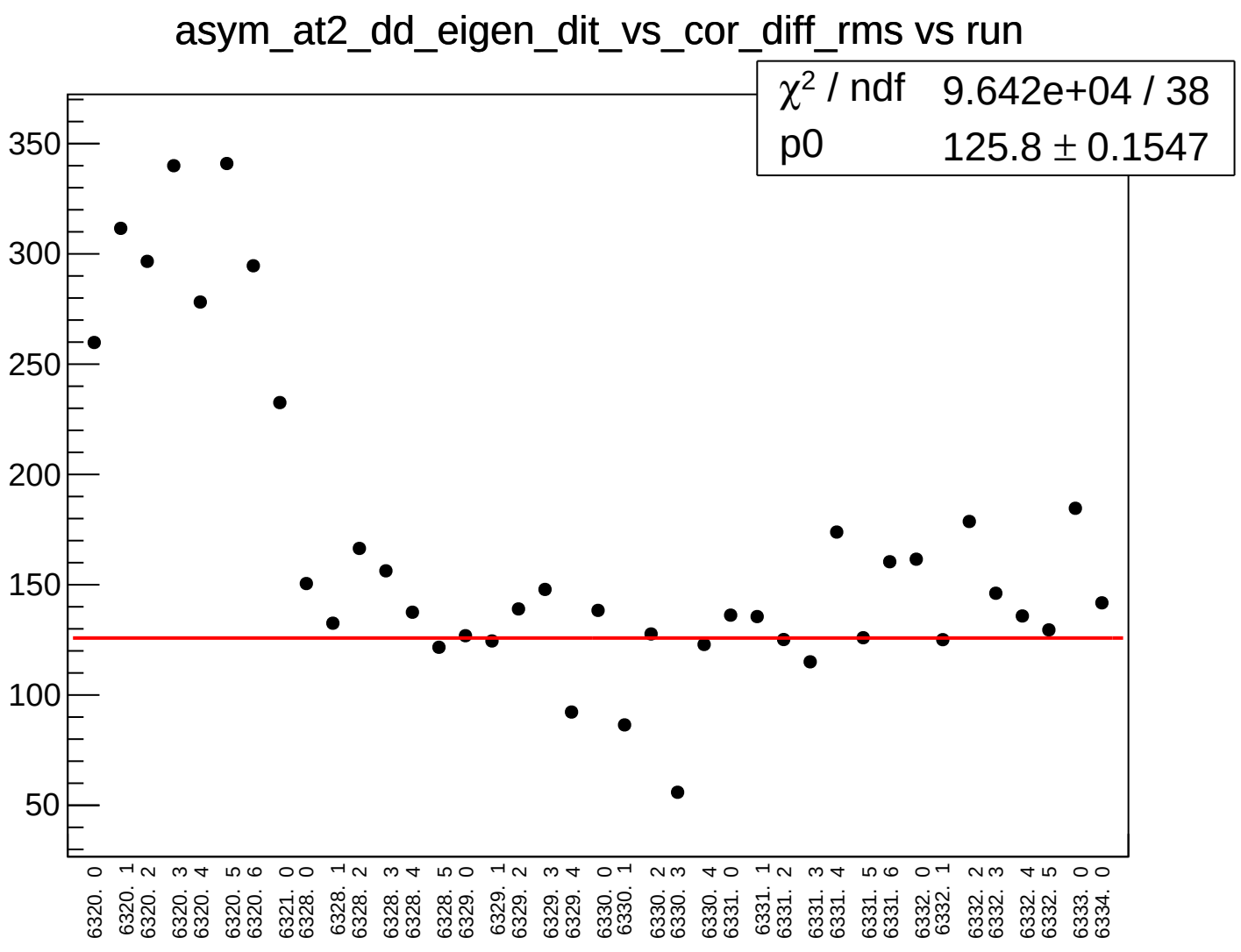

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 38
p0 125.8 ± 0.1547
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

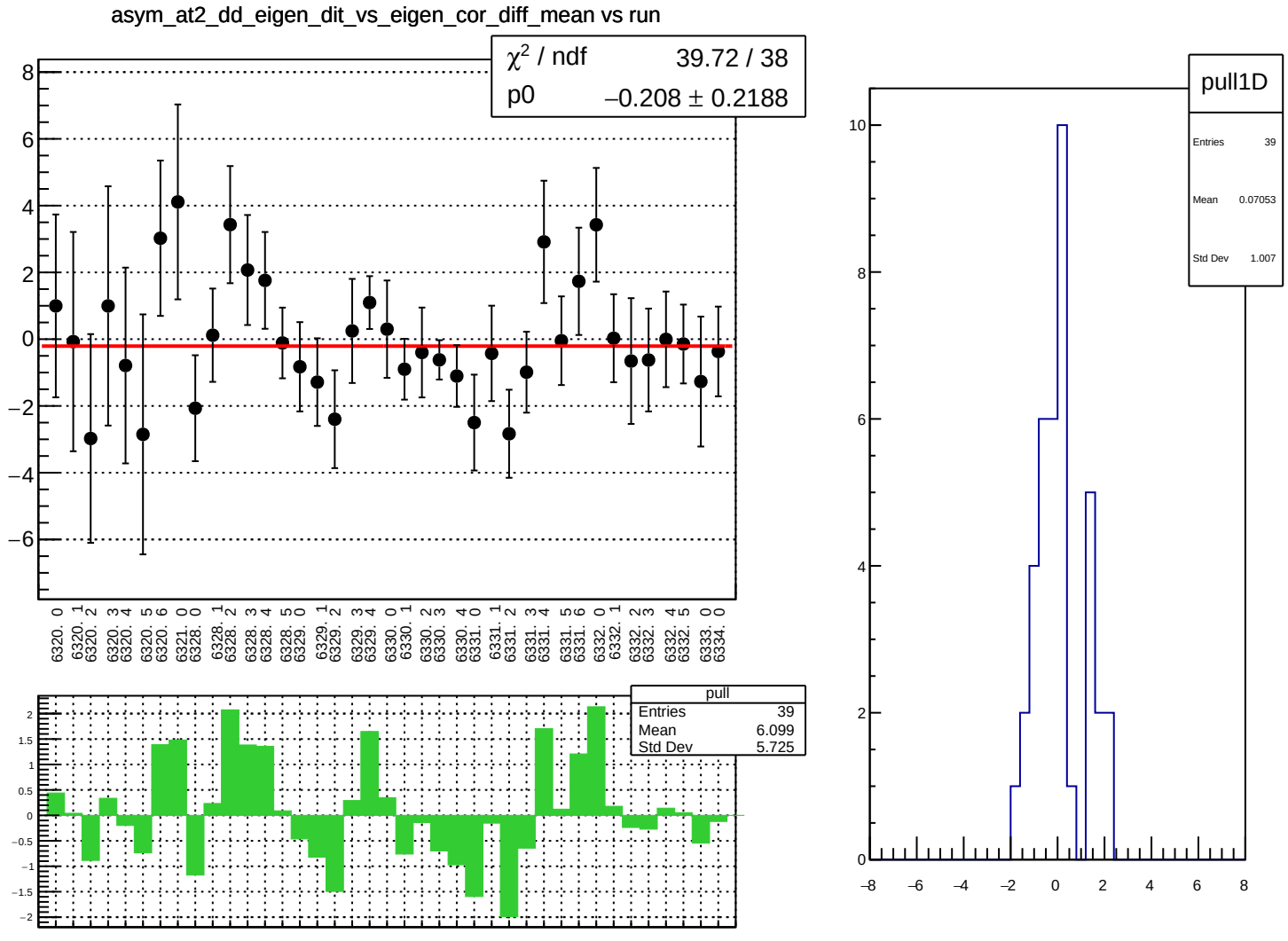

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.04 / 38
p0 3.739e−06 ± 1.124e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1577
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0002293
Std Dev 0.9204
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

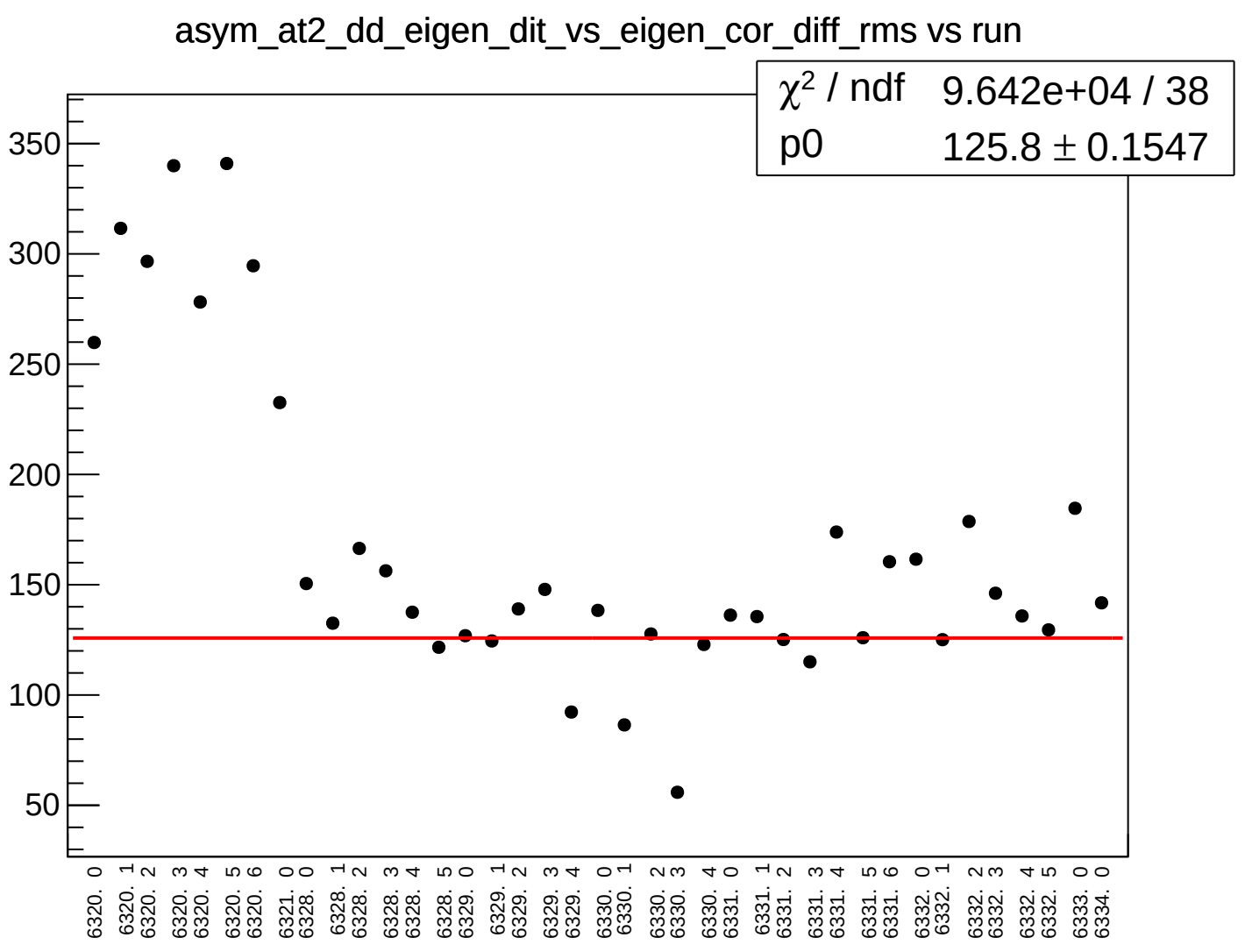

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.134e+05 / 38
p0 0.005867 ± 7.95e−06
0.014
0.012
0.01
0.008
0.006
0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

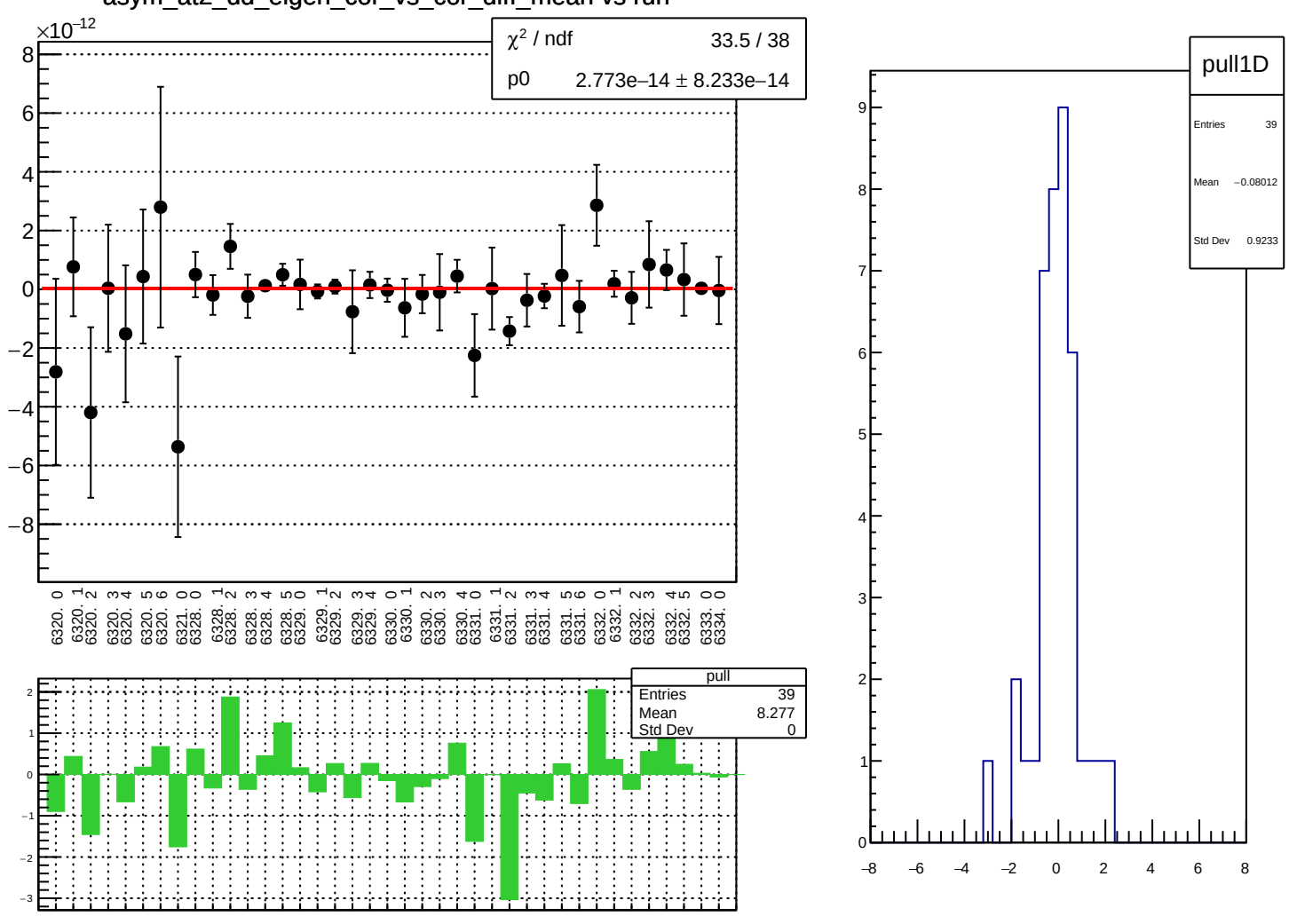

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.72 / 38
p0 −0.208 ± 0.2188
pull
Entries 39
Mean 6.099
Std Dev 5.725

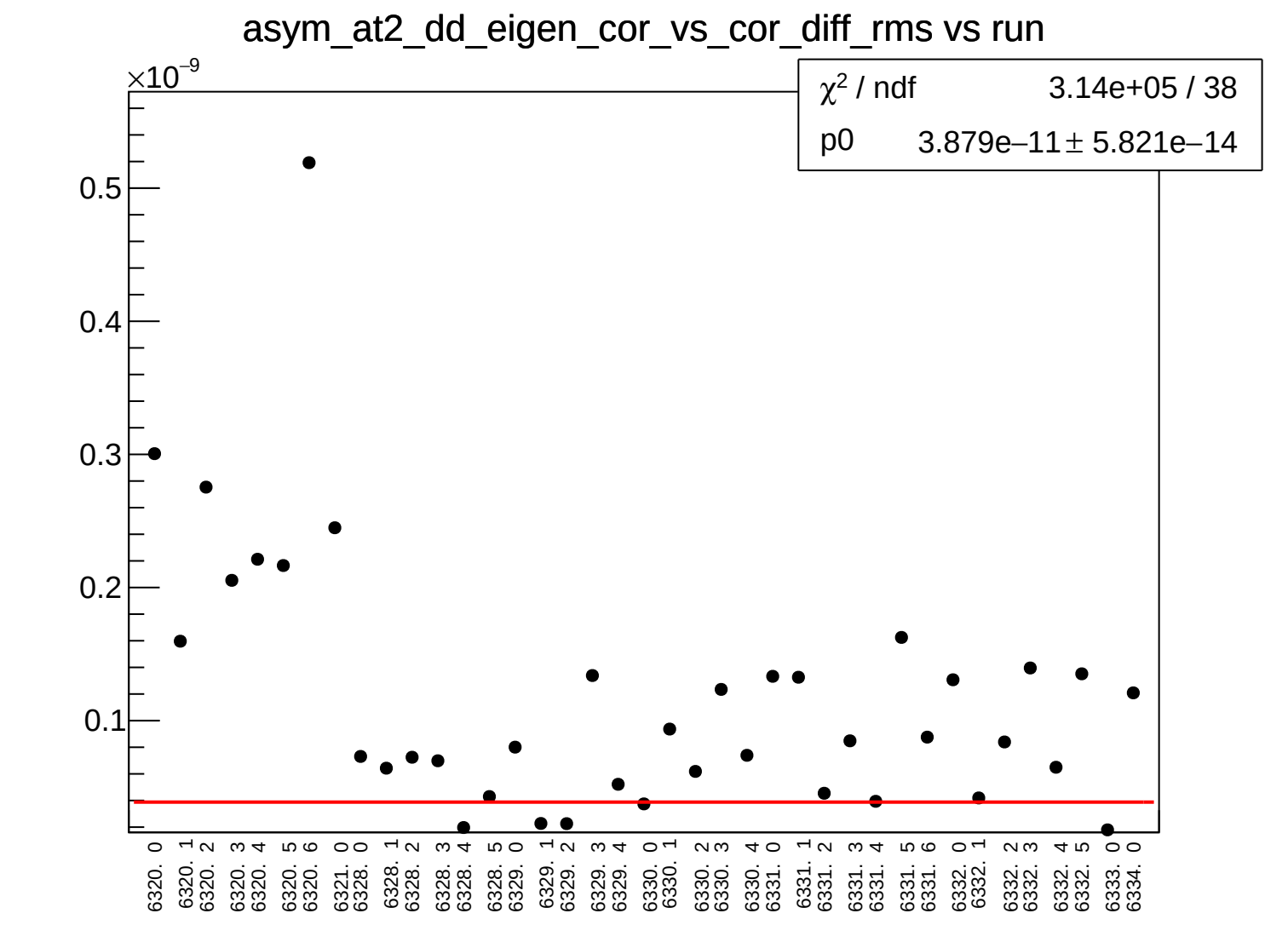

pull1D
Entries 39
Mean 0.07053
Std Dev 1.007

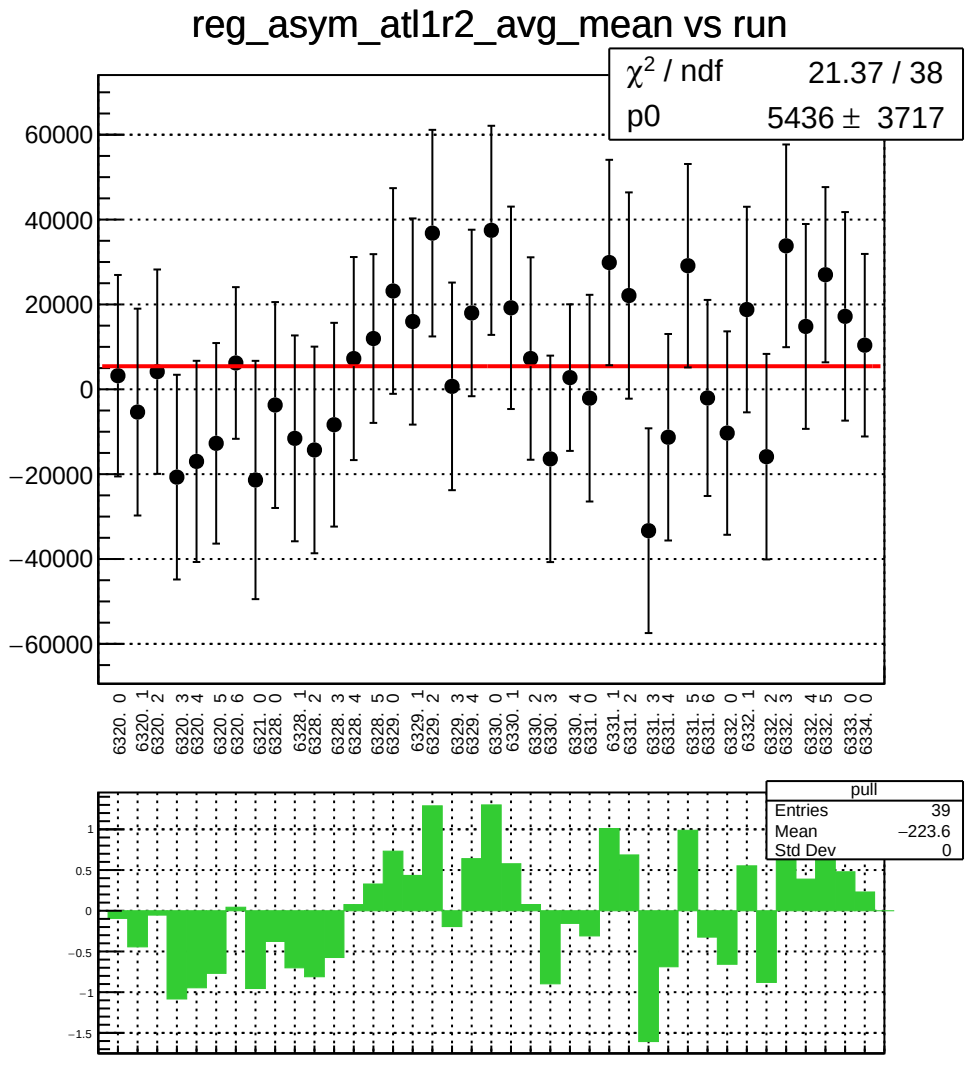

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 38
p0 125.8 ± 0.1547
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

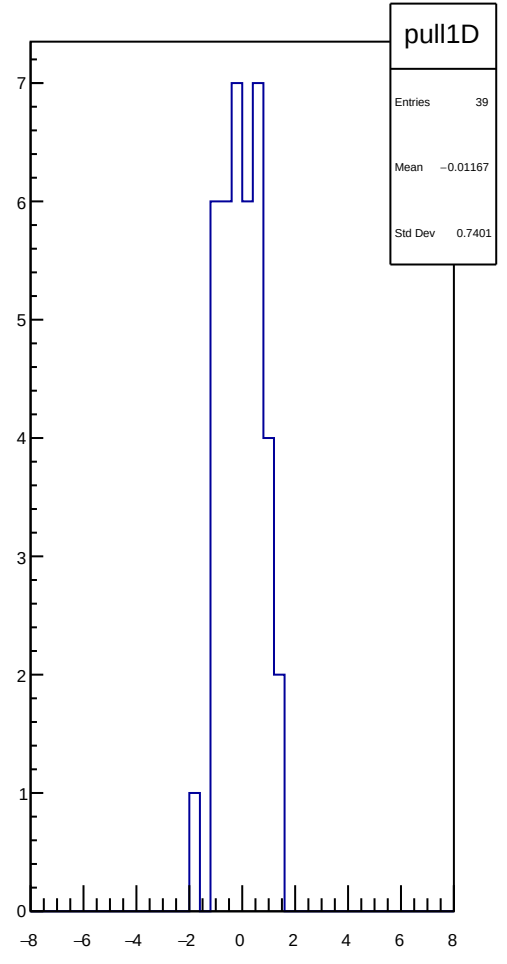

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.72 / 38
p0 −0.208 ± 0.2188
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.099
Std Dev 5.725
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.07053
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

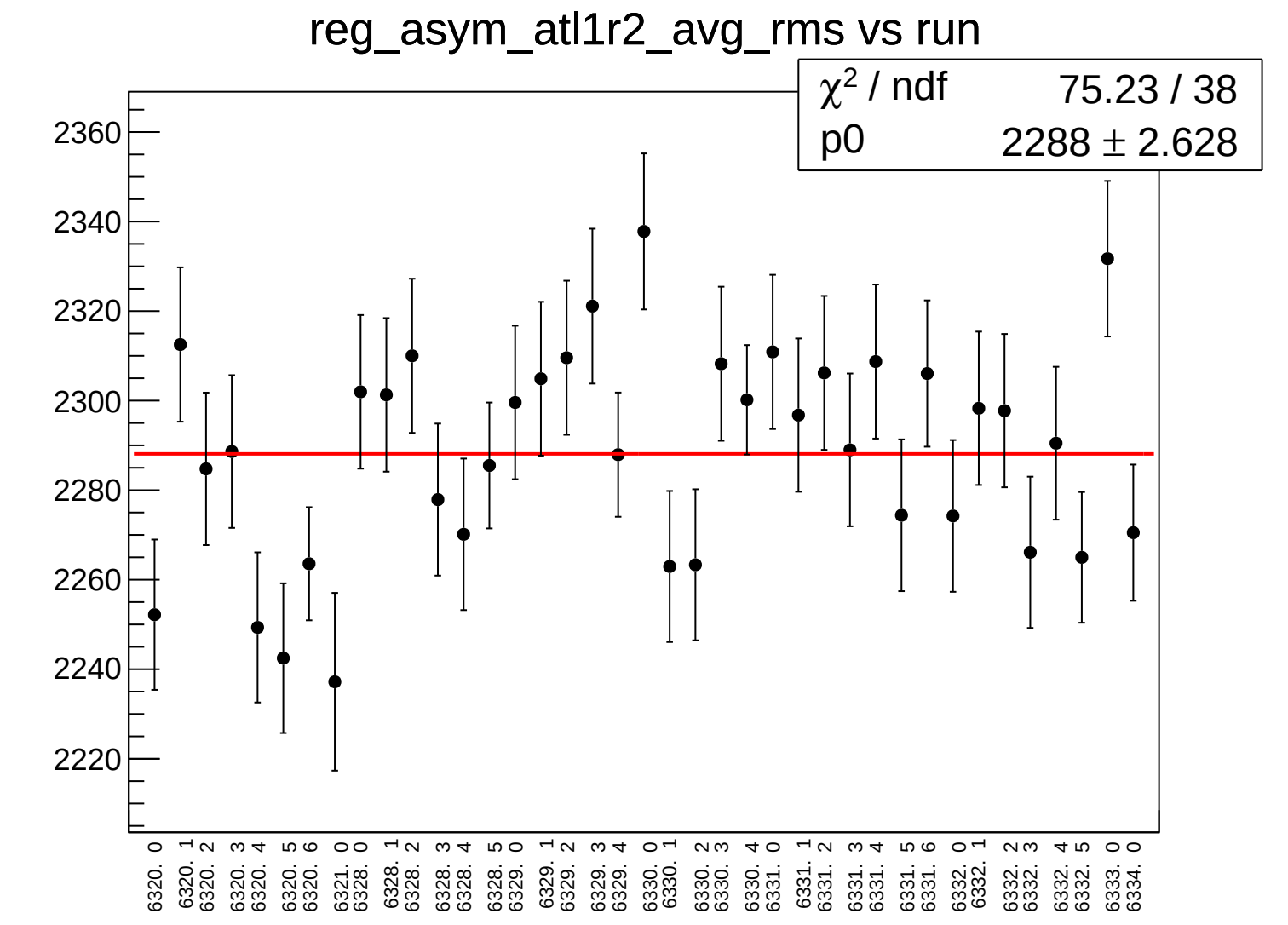

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 38
p0 125.8 ± 0.1547
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

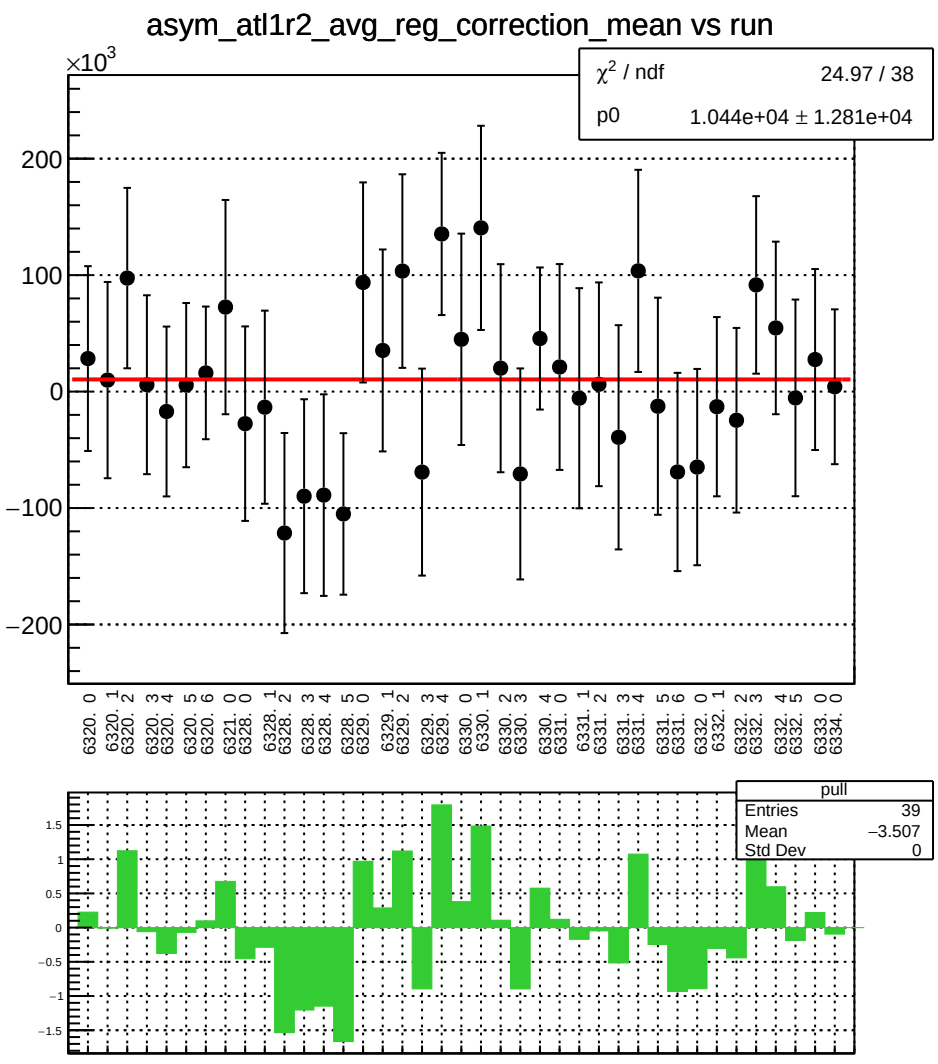

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.5 / 38
p0 2.773e−14 ± 8.233e−14
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.277
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.08012
Std Dev 0.9233
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

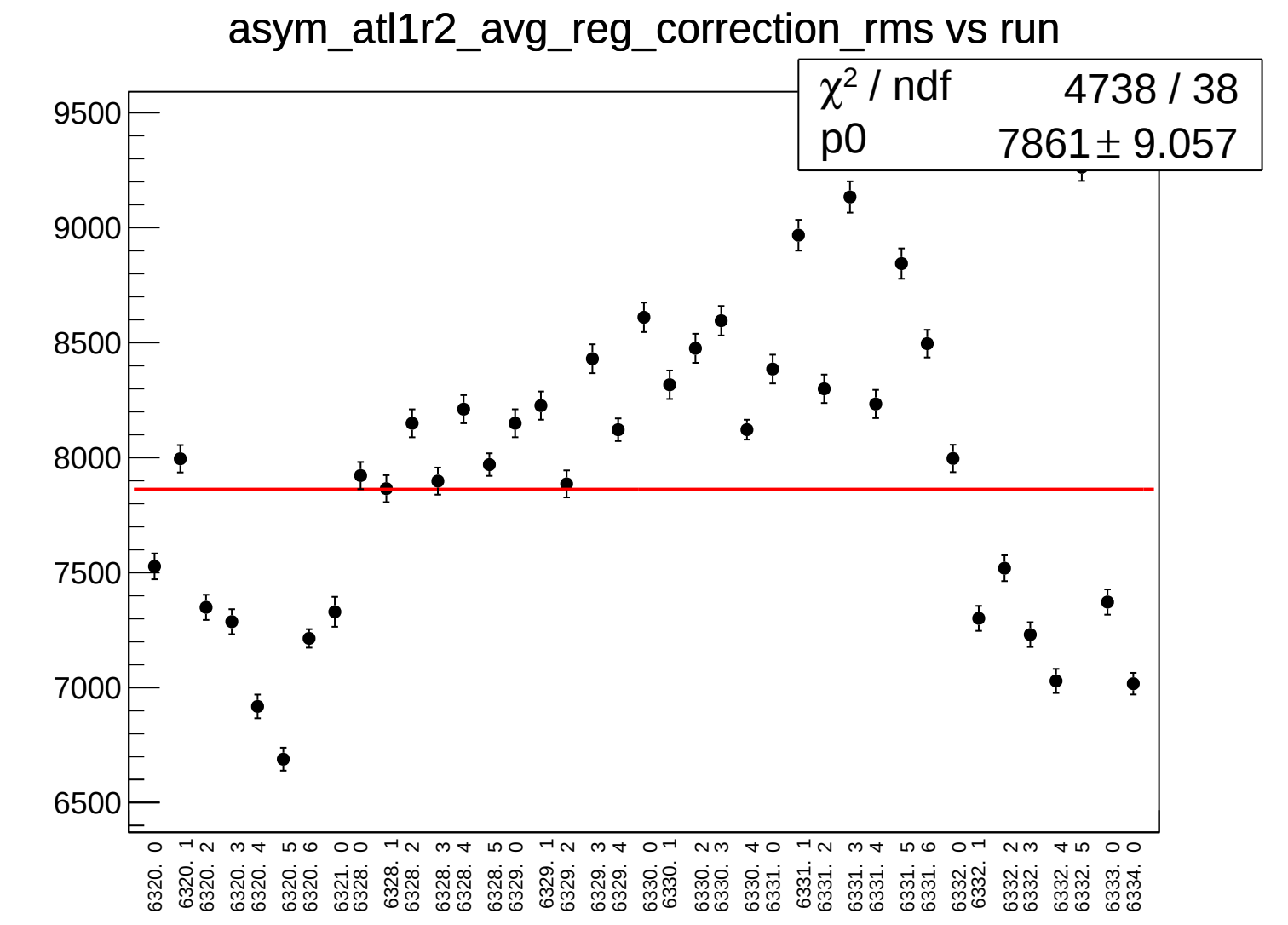

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.14e+05 / 38
p0 3.879e−11 ± 5.821e−14
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

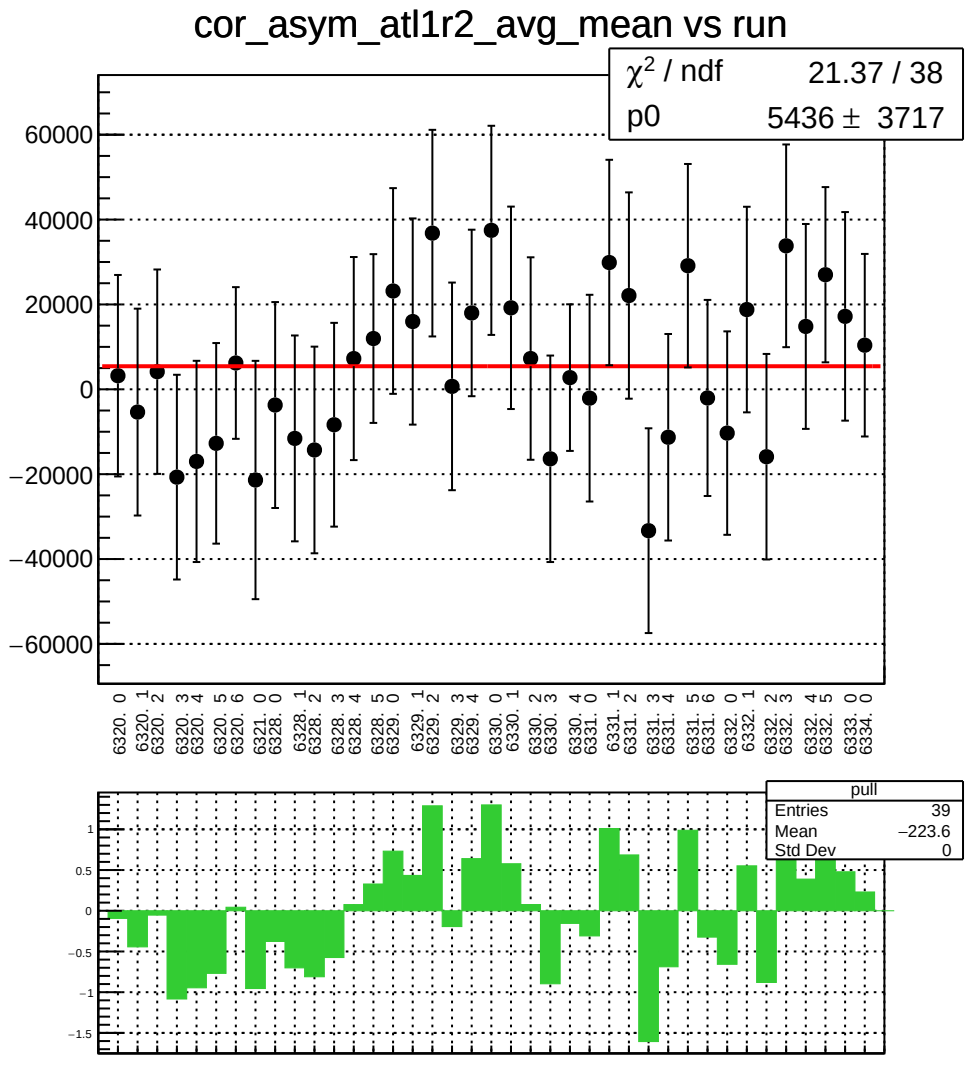

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 21.37 / 38
p0 5436 ± 3717
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −223.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

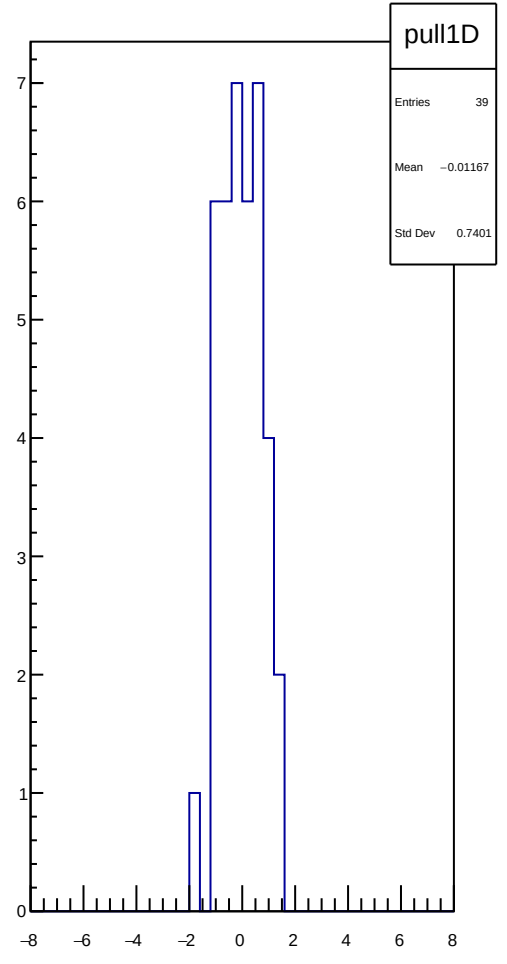

pull1D
Entries 39
Mean −0.01167
Std Dev 0.7401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

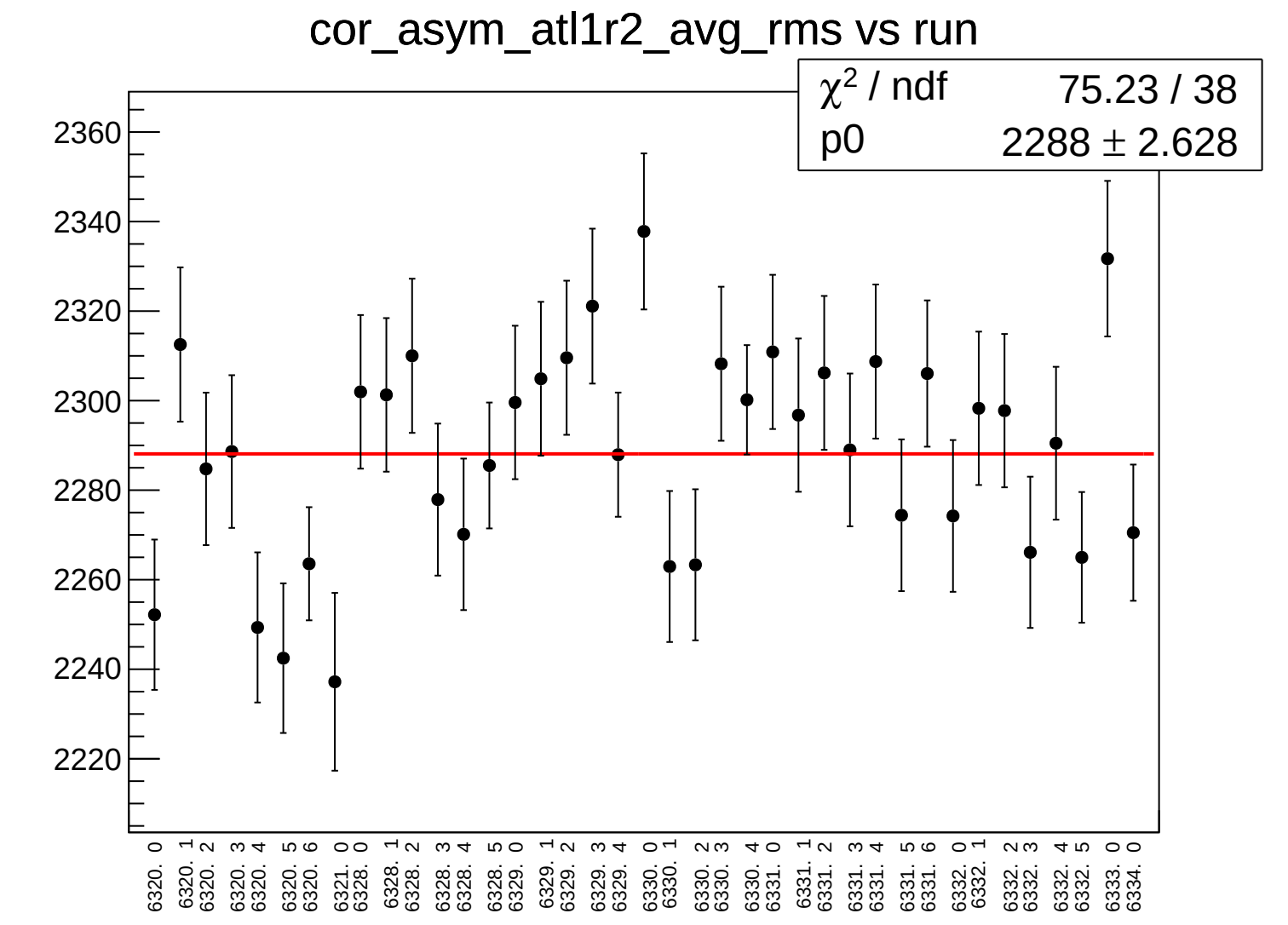

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 75.23 / 38
p0 2288 ± 2.628
2360
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

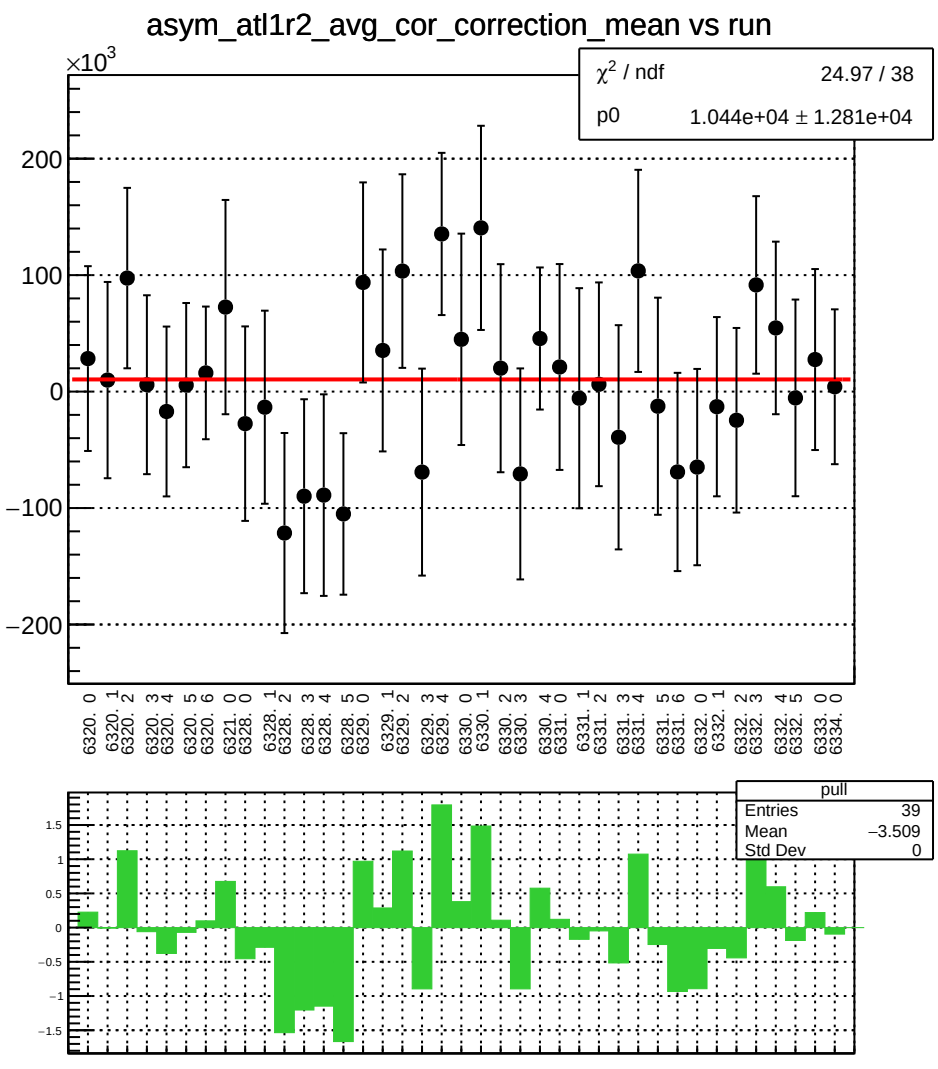

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.97 / 38
p0 1.044e+04 ± 1.281e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.507
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01328
Std Dev 0.8001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

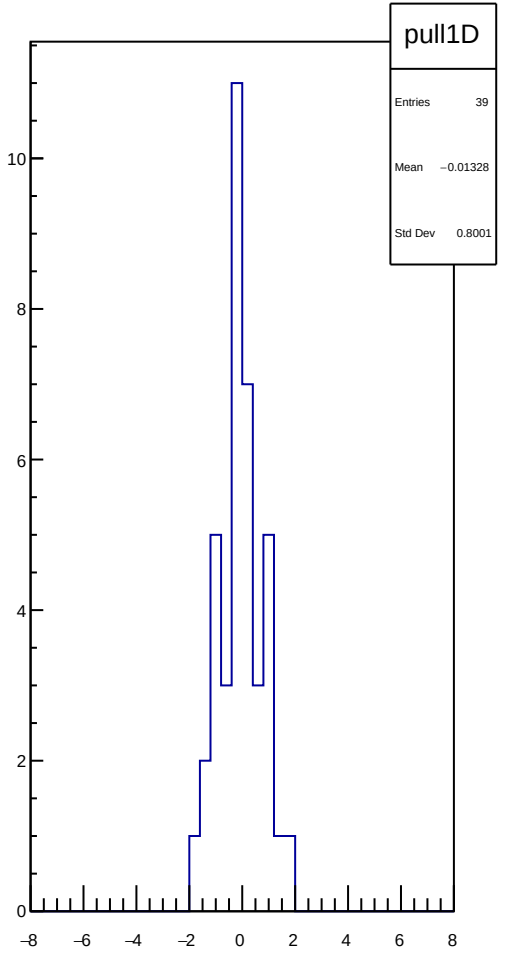

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4738 / 38
p0 7861 ± 9.057
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

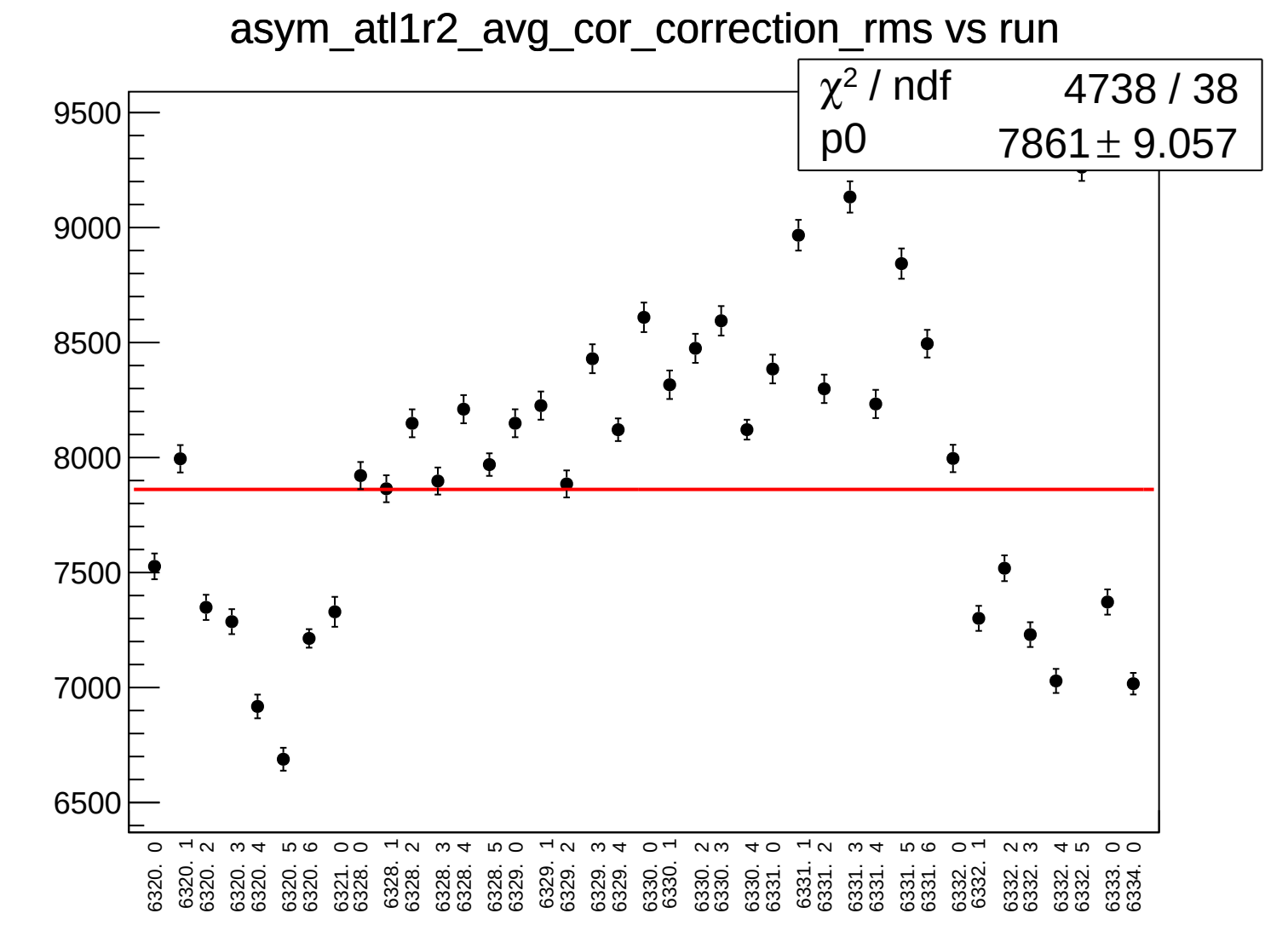

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 21.37 / 38
p0 5436 ± 3717
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −223.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

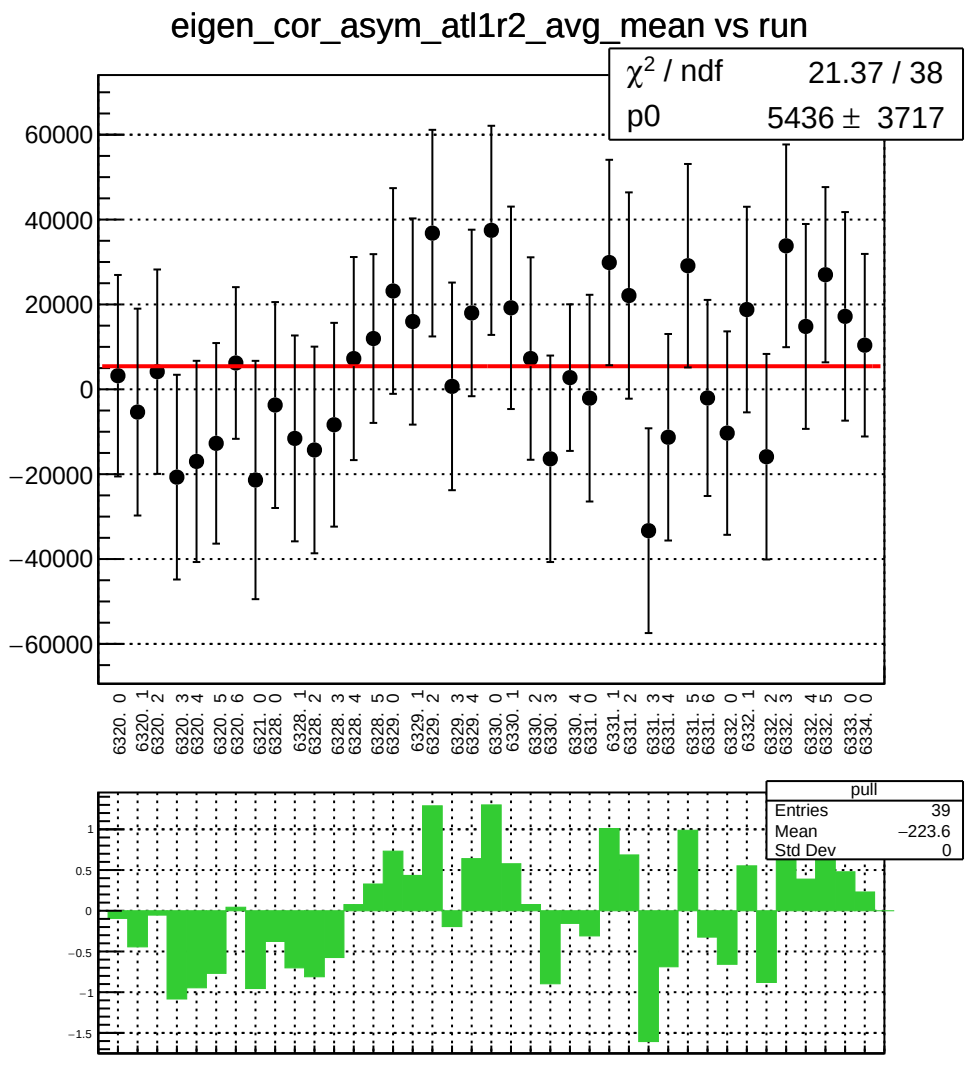

pull1D
Entries 39
Mean −0.01167
Std Dev 0.7401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

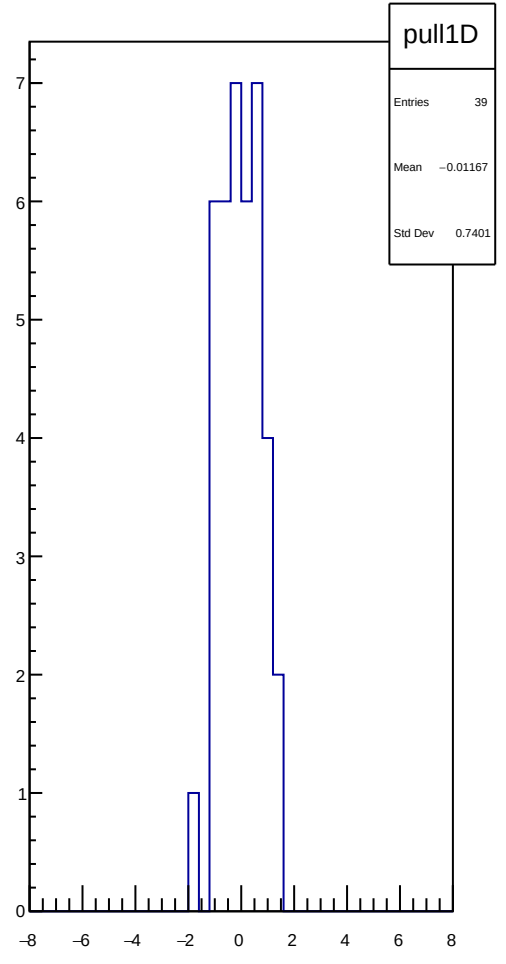

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 75.23 / 38
p0 2288 ± 2.628
2360
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

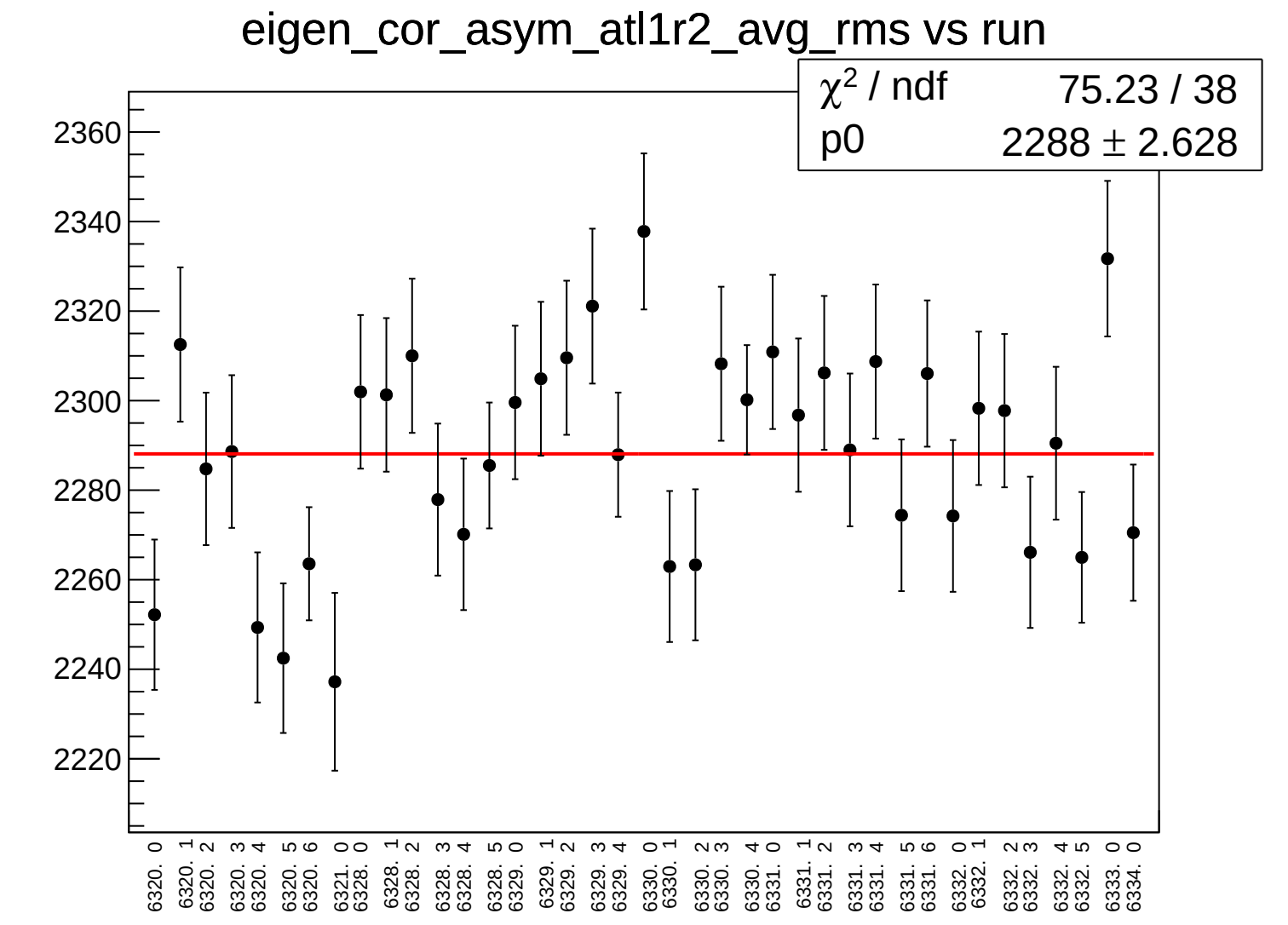

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.97 / 38
p0 1.044e+04 ± 1.281e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.509
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

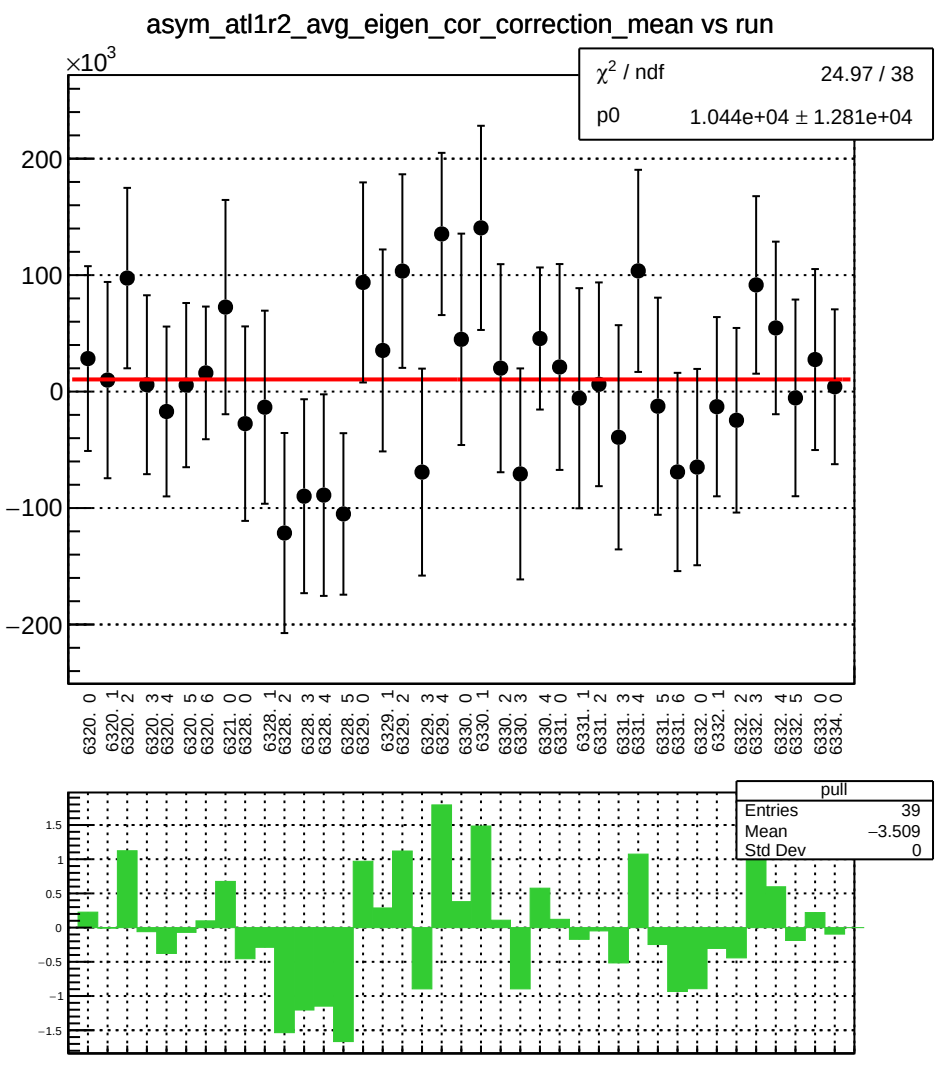

pull1D
Entries 39
Mean −0.01328
Std Dev 0.8001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

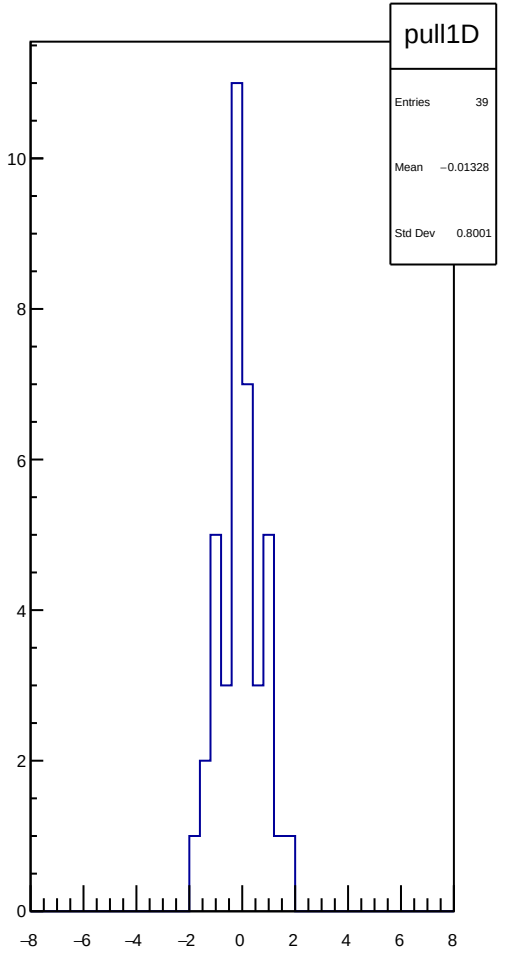

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4738 / 38
p0 7861 ± 9.057
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

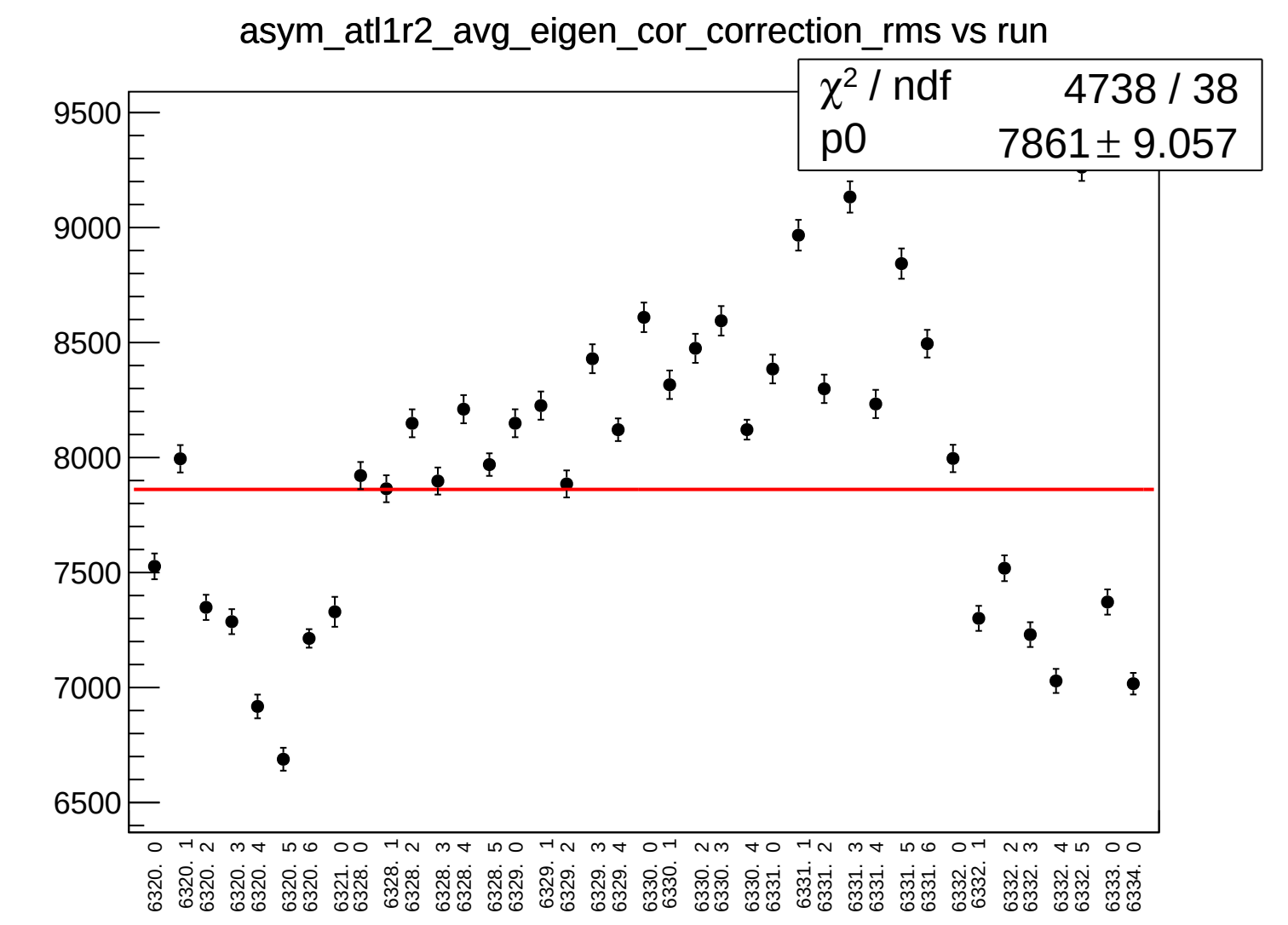

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 21.37 / 38
p0 5436 ± 3717
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −223.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

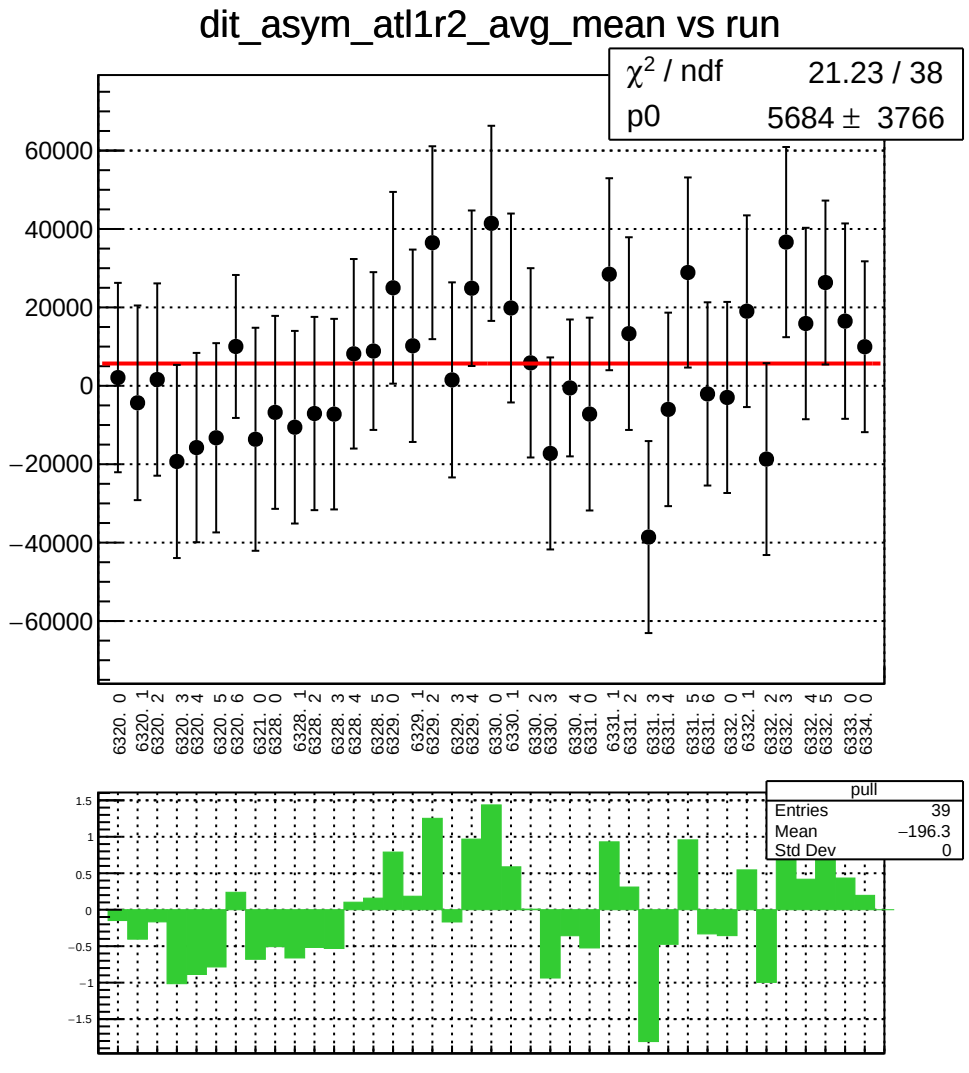

pull1D
Entries 39
Mean −0.01167
Std Dev 0.7401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

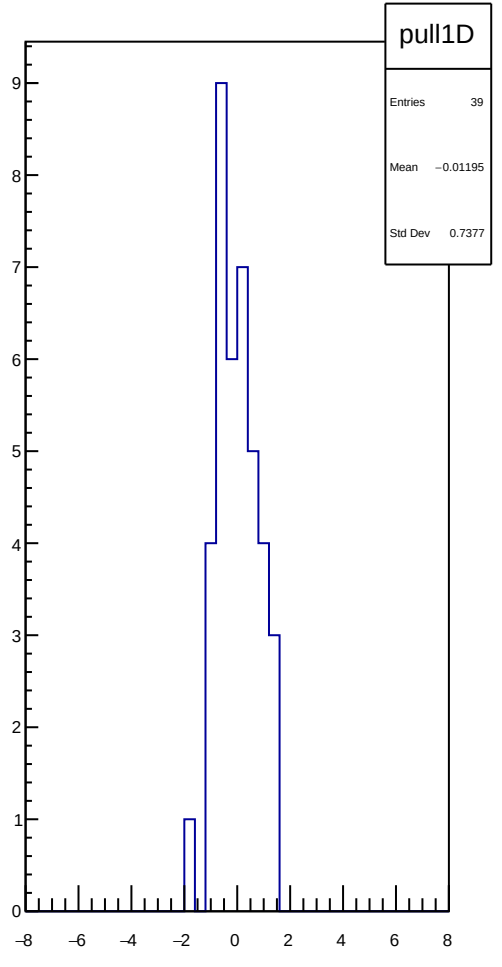

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 75.23 / 38
p0 2288 ± 2.628
2360
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

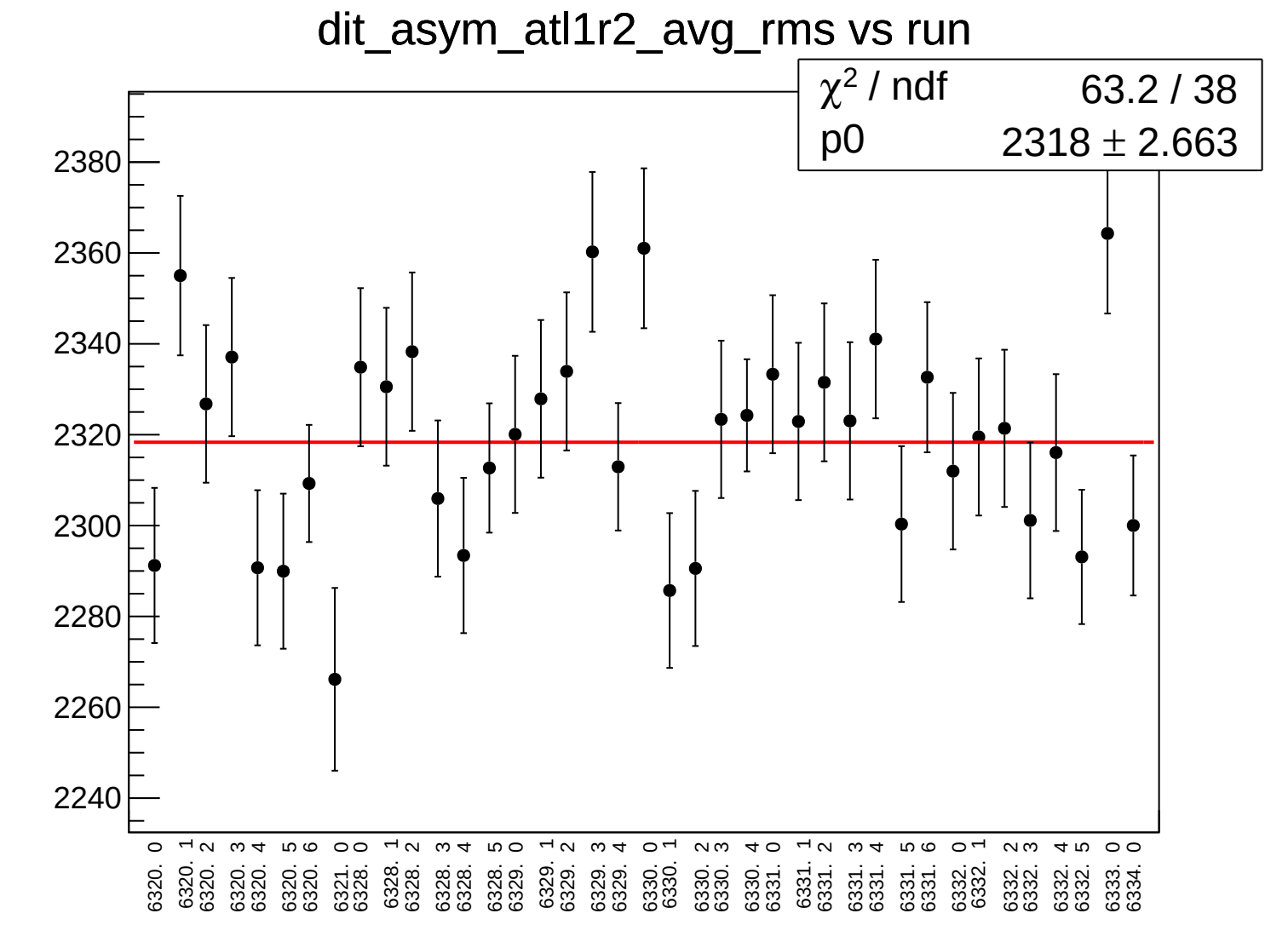

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.97 / 38
p0 1.044e+04 ± 1.281e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.509
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01328
Std Dev 0.8001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4738 / 38
p0 7861 ± 9.057
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_atl1r2_avg_mean vs run
χ² / ndf 21.23 / 38
p0 5684 ± 3766
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −196.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01195
Std Dev 0.7377
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_avg_rms vs run
χ² / ndf 63.2 / 38
p0 2318 ± 2.663
2380
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6328. 5
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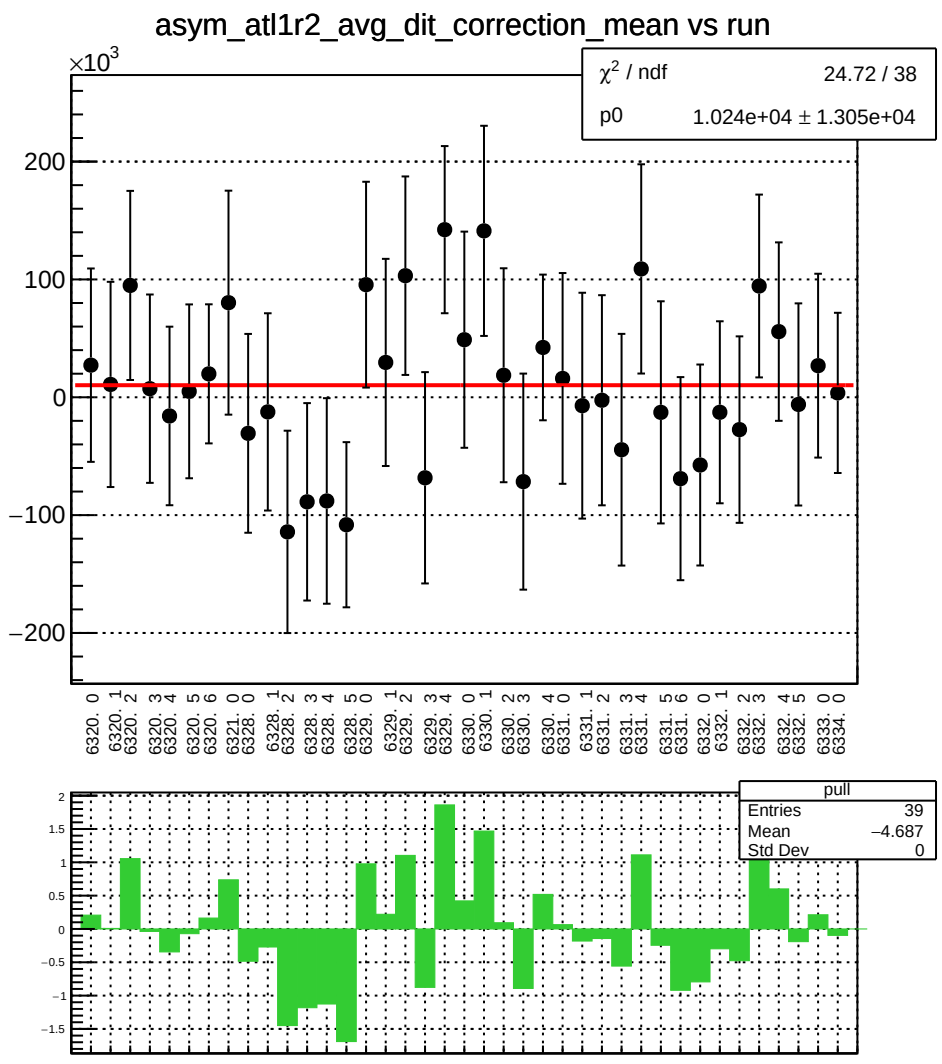
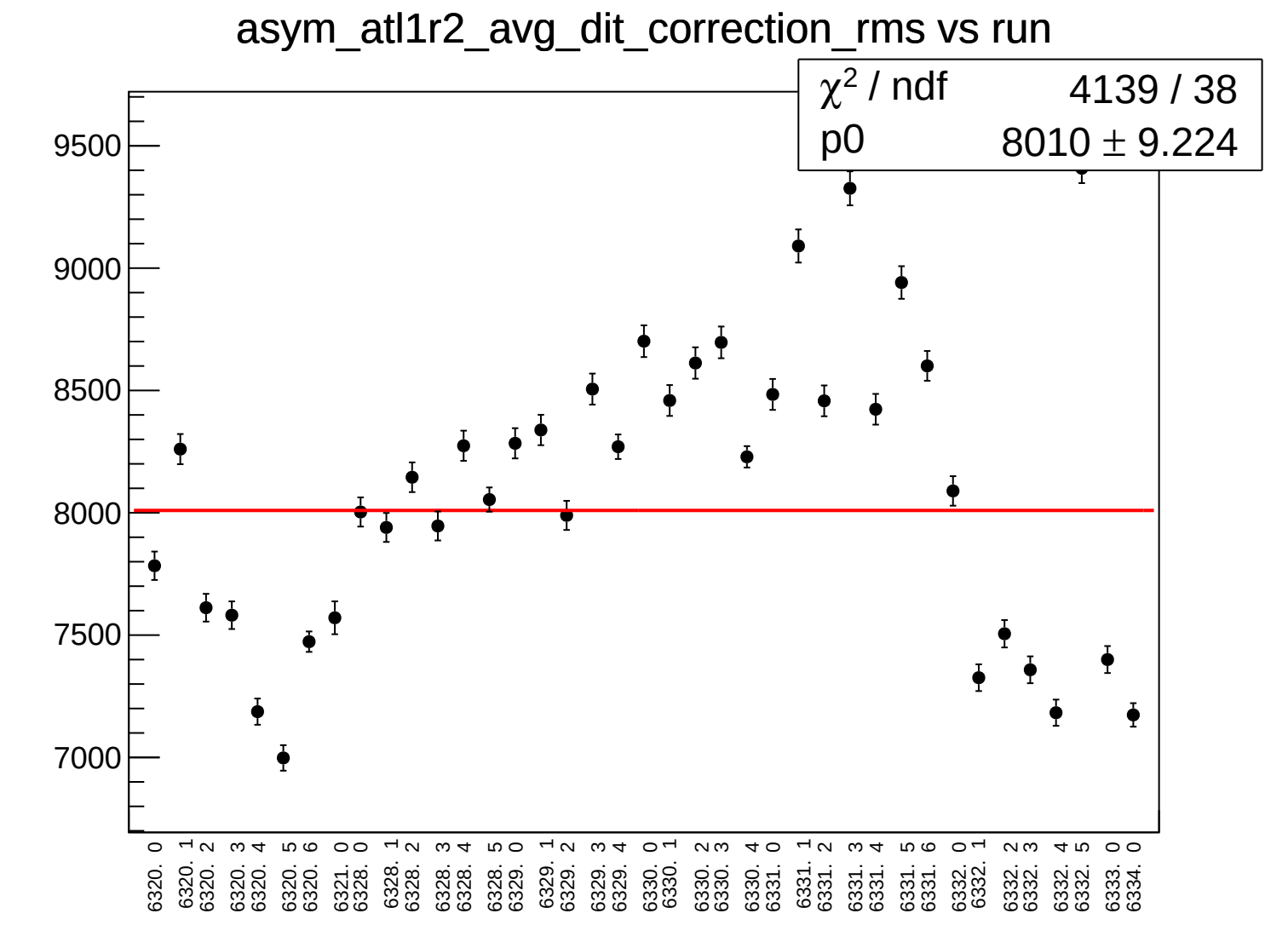
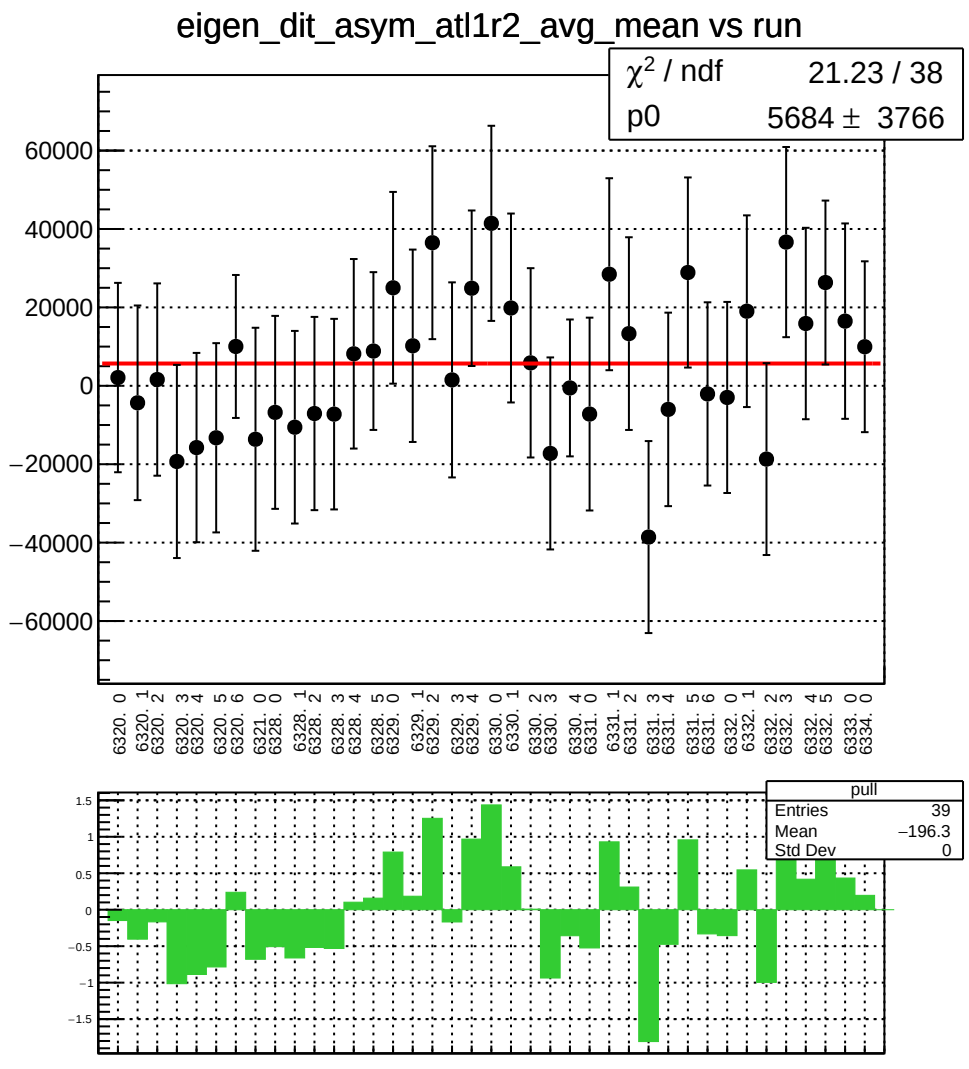
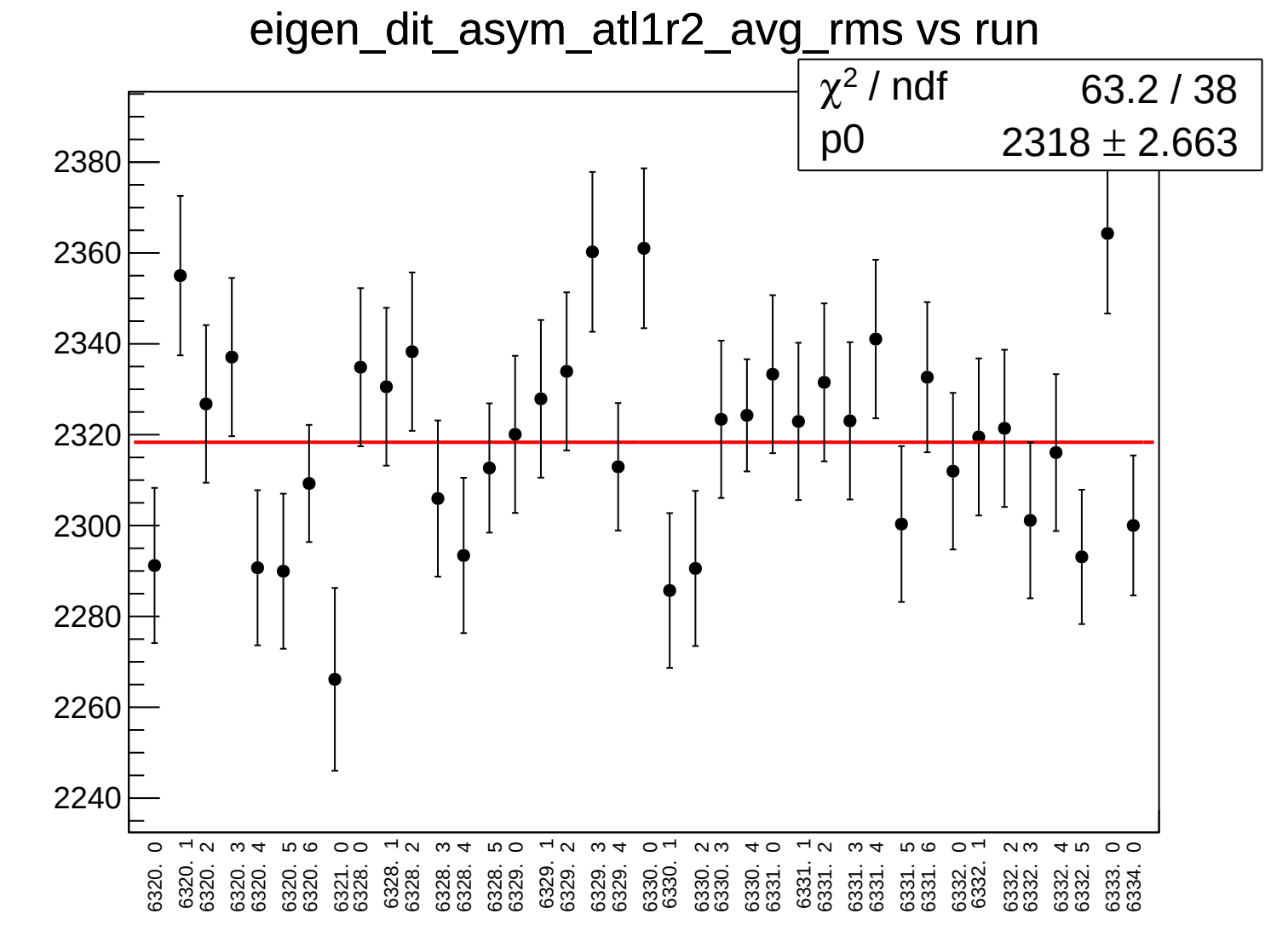
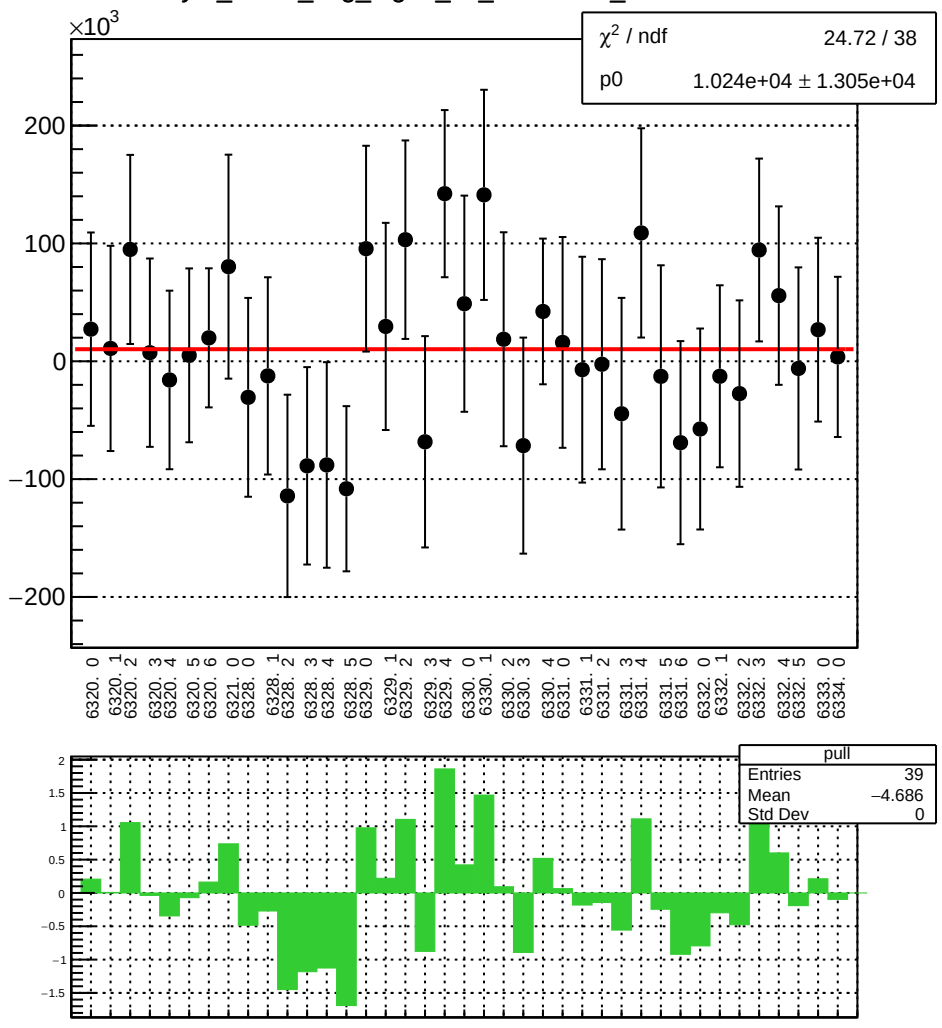
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

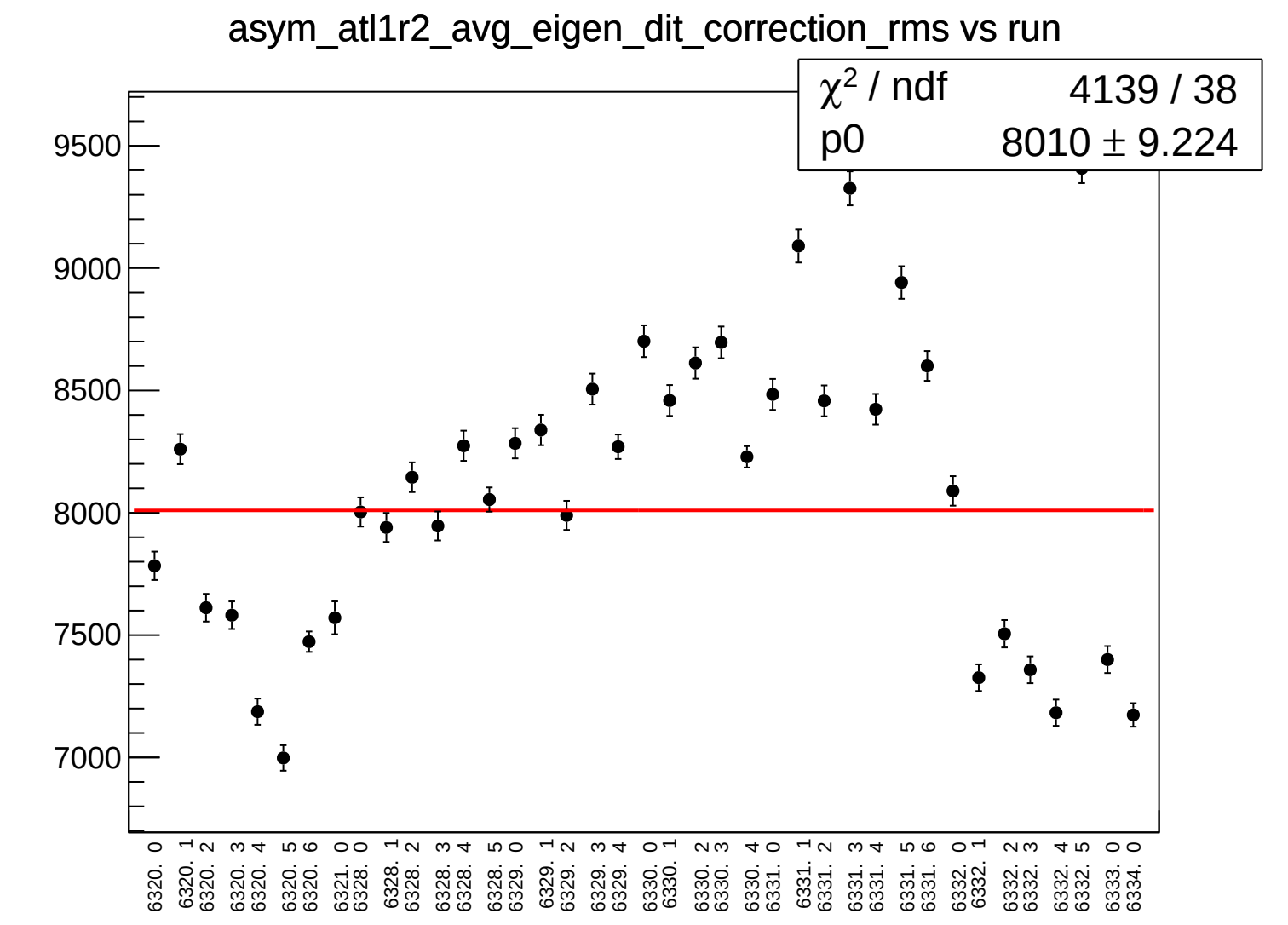

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.72 / 38
p0 1.024e+04 ± 1.305e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.687
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01059
Std Dev 0.7962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

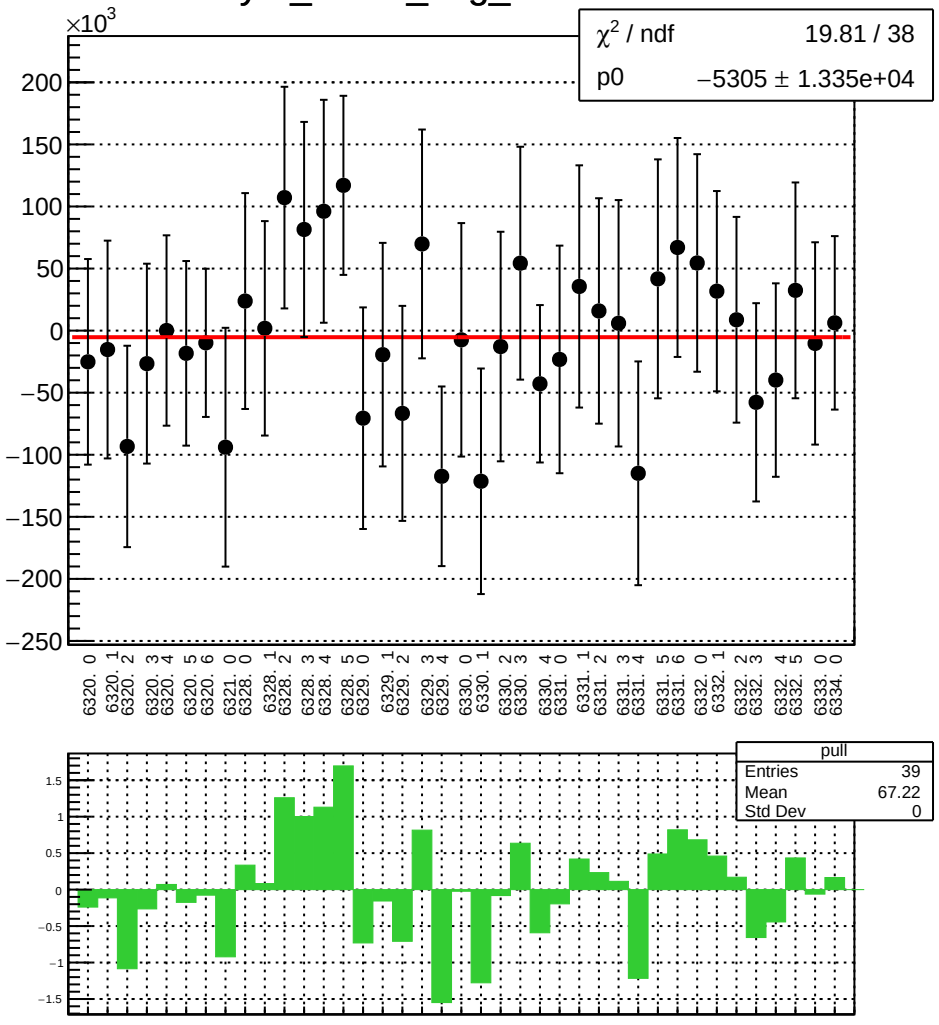

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4139 / 38
p0 8010 ± 9.224
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

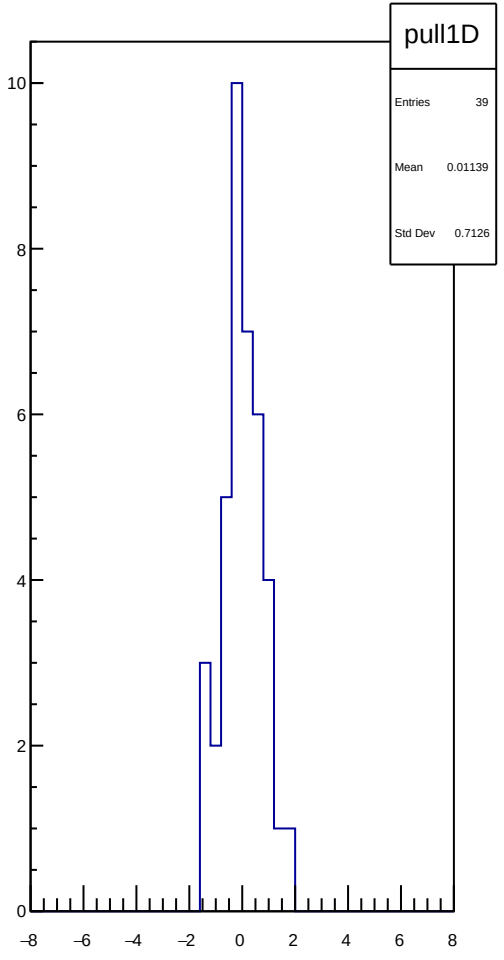

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 21.23 / 38
p0 5684 ± 3766
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −196.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01195
Std Dev 0.7377
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

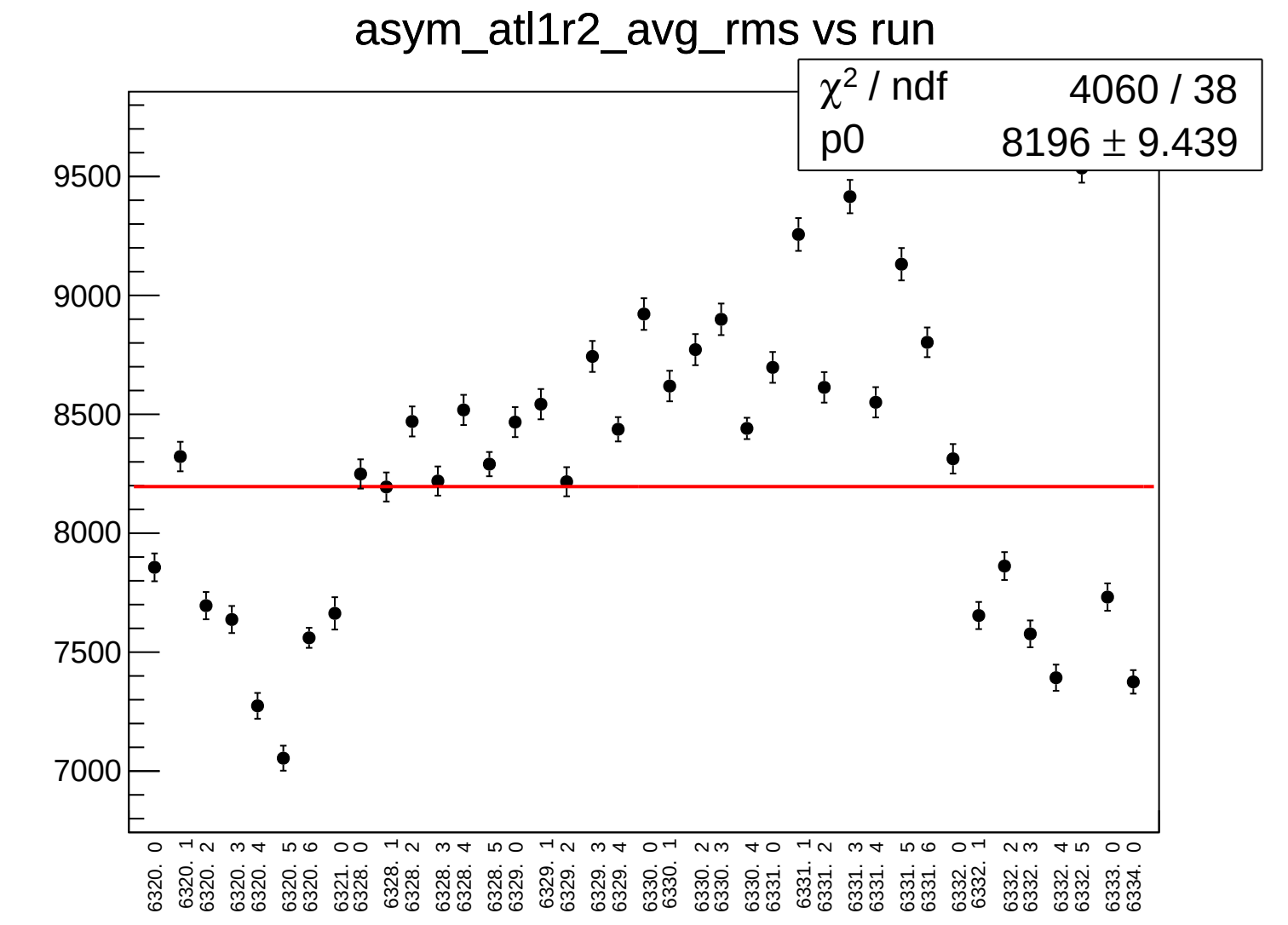

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 63.2 / 38
p0 2318 ± 2.663
2380
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

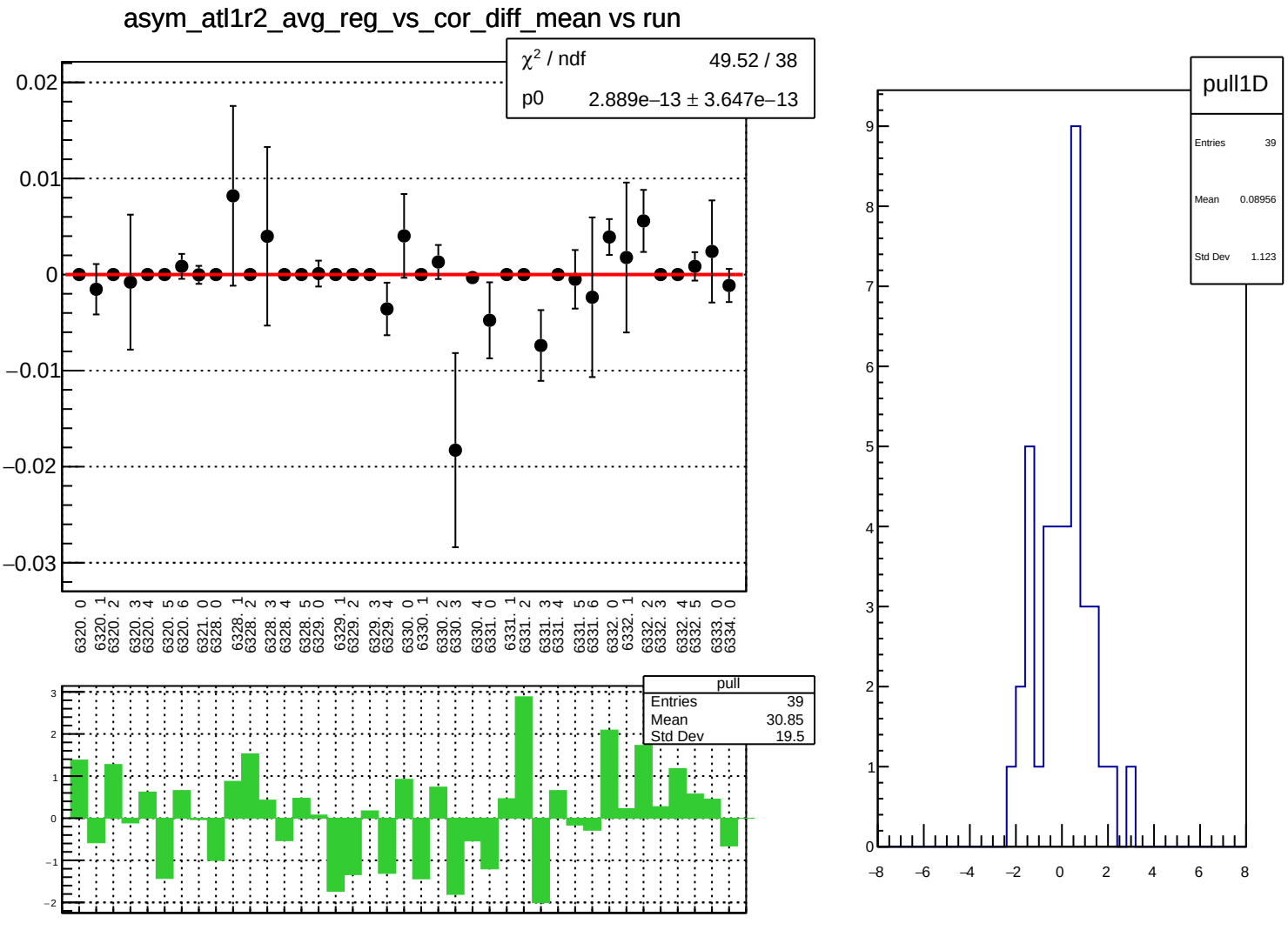

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.72 / 38
p0 1.024e+04 ± 1.305e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.686
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01059
Std Dev 0.7962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

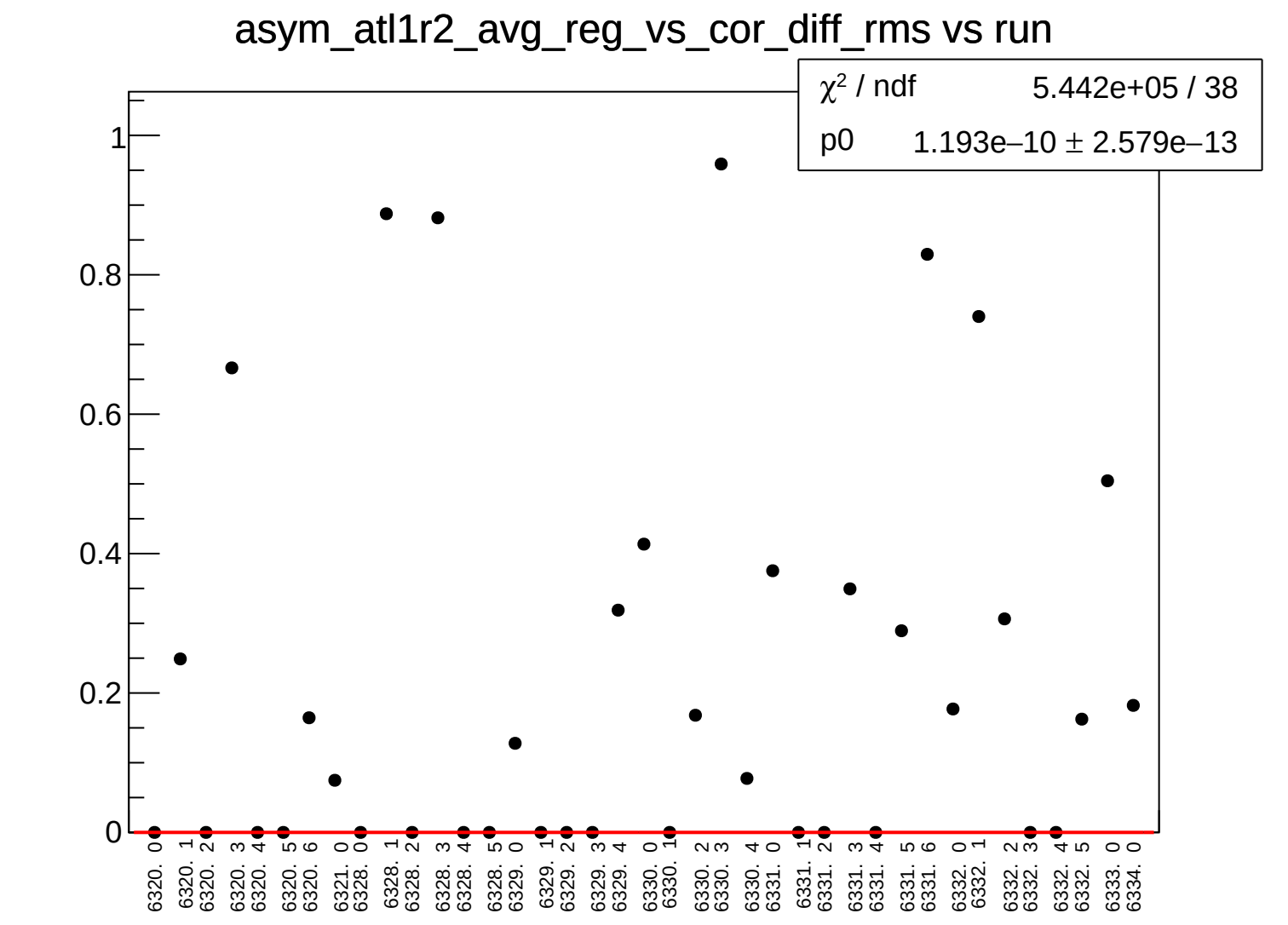

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4139 / 38
p0 8010 ± 9.224
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

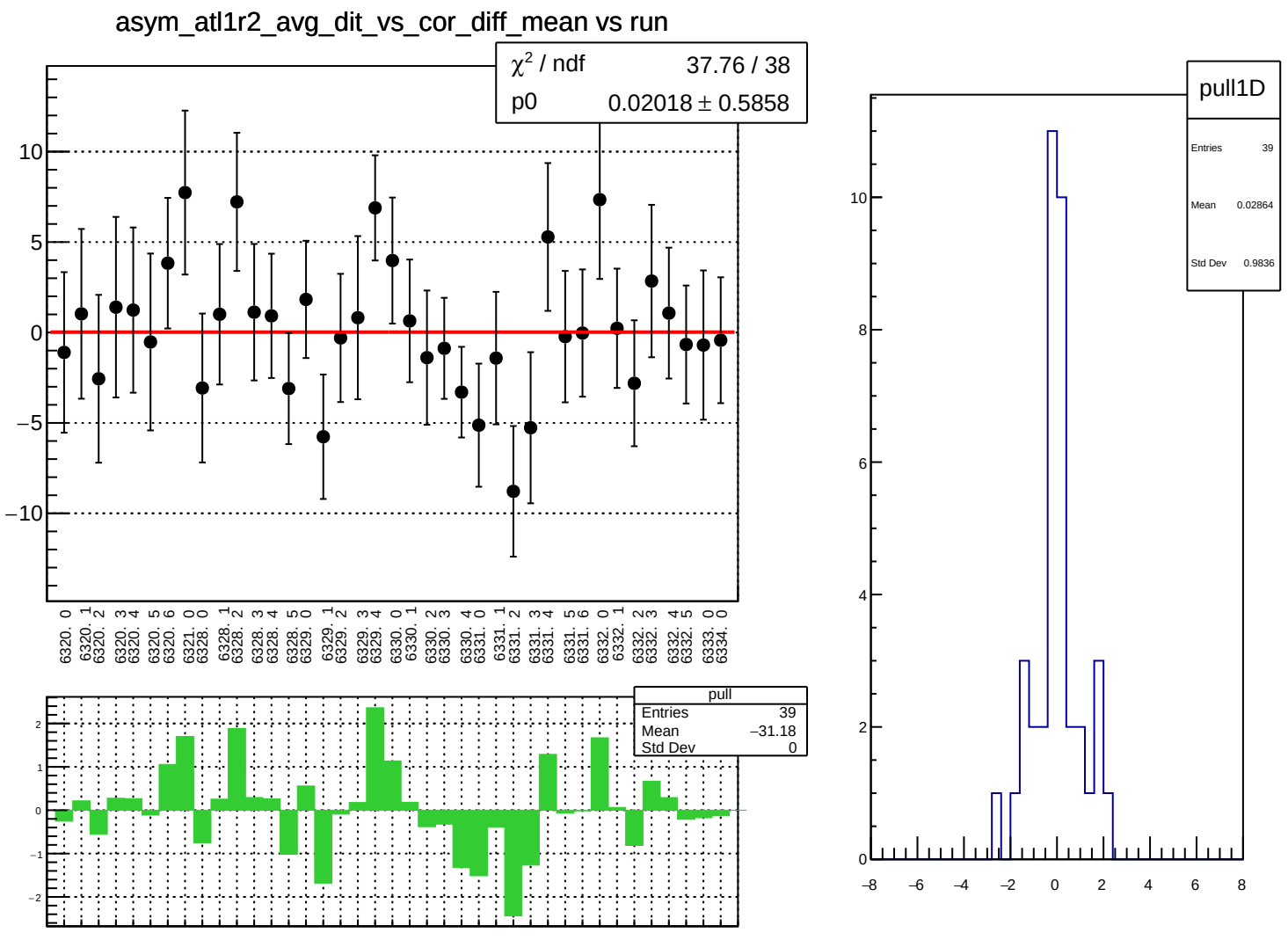

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 19.81 / 38
p0 −5305 ± 1.335e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 67.22
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

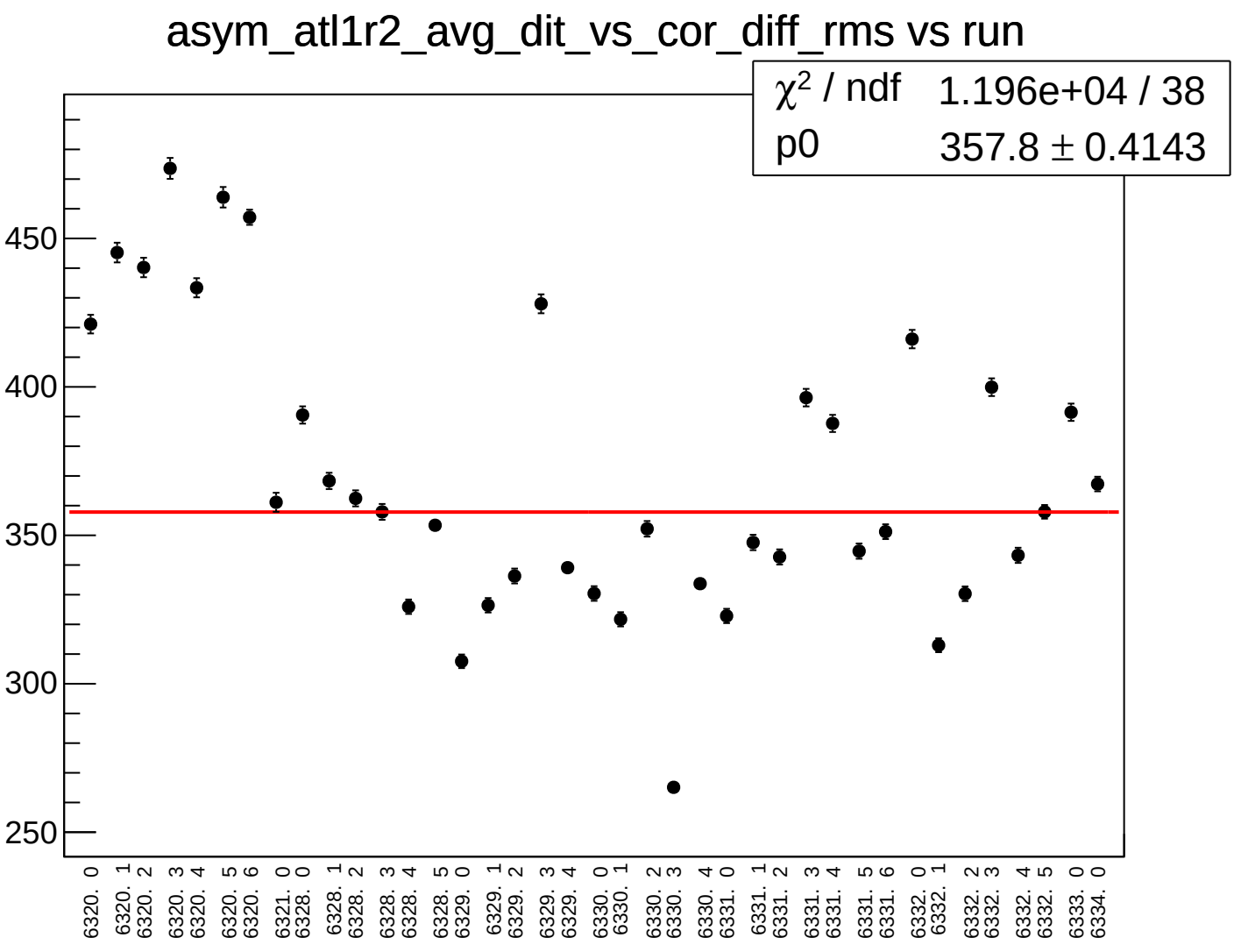

pull1D
Entries 39
Mean 0.01139
Std Dev 0.7126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

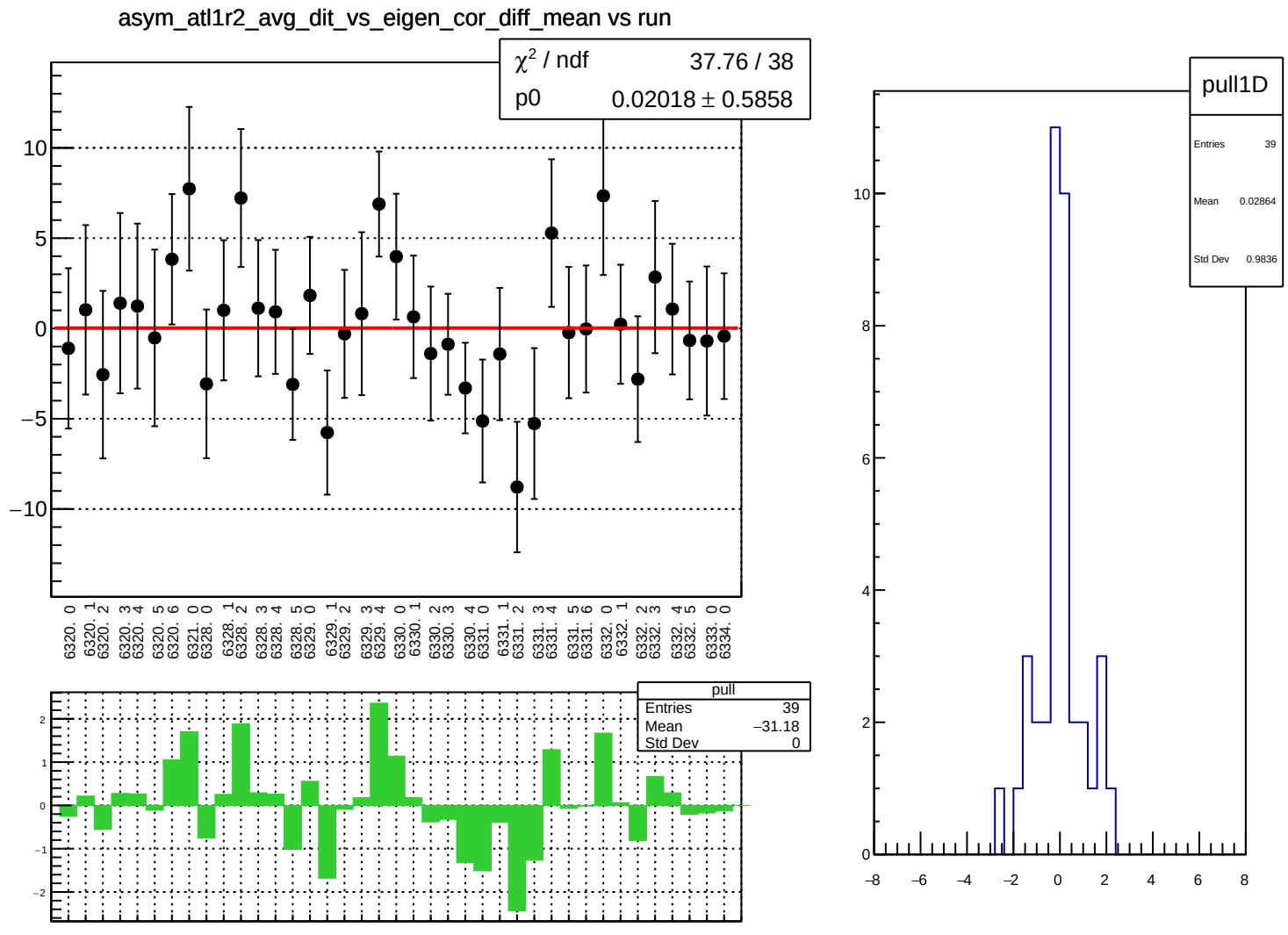

asym_atl1r2_avg_rms vs run
χ² / ndf 4060 / 38
p0 8196 ± 9.439
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

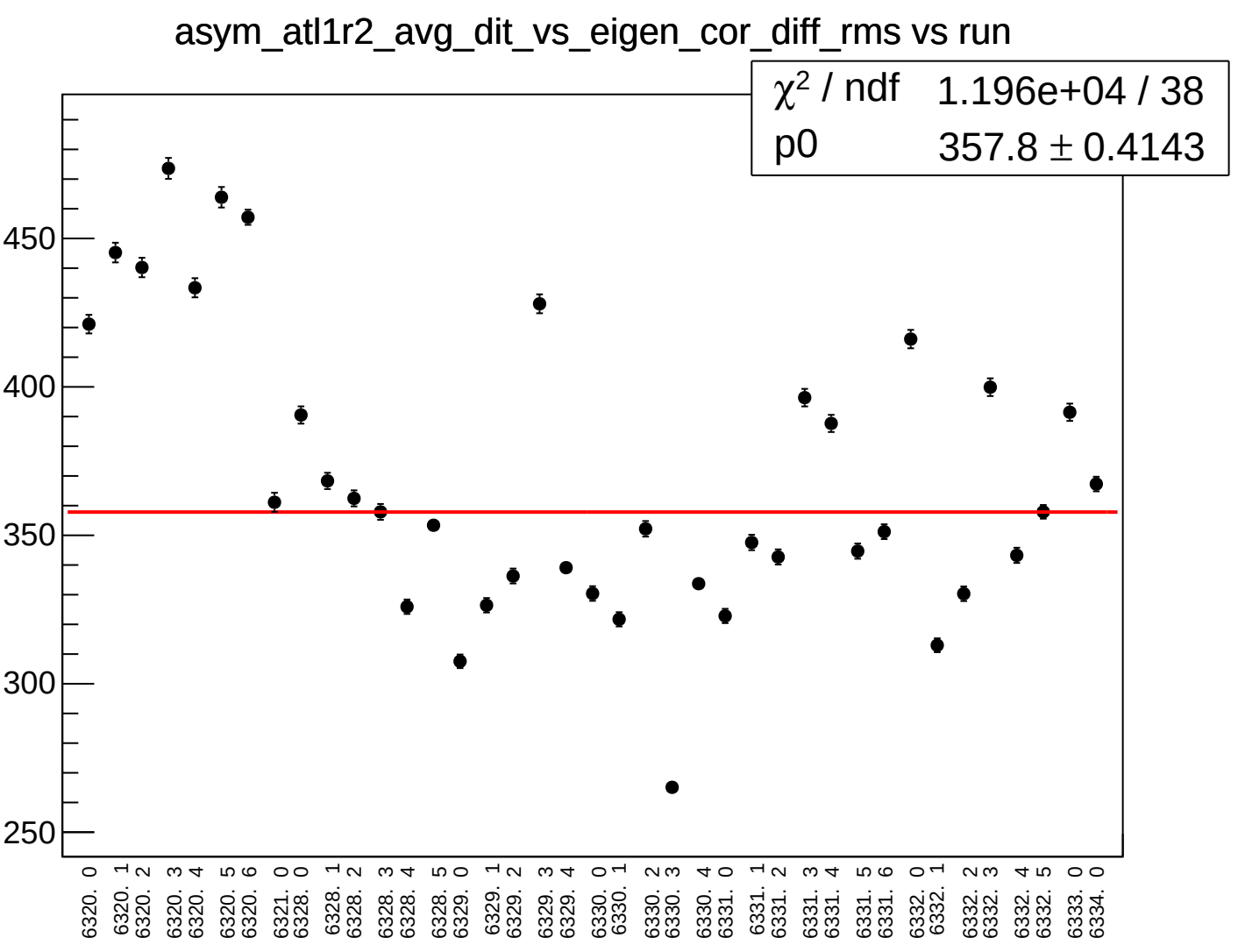

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 49.52 / 38
p0 2.889e−13 ± 3.647e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.85
Std Dev 19.5
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.08956
Std Dev 1.123
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

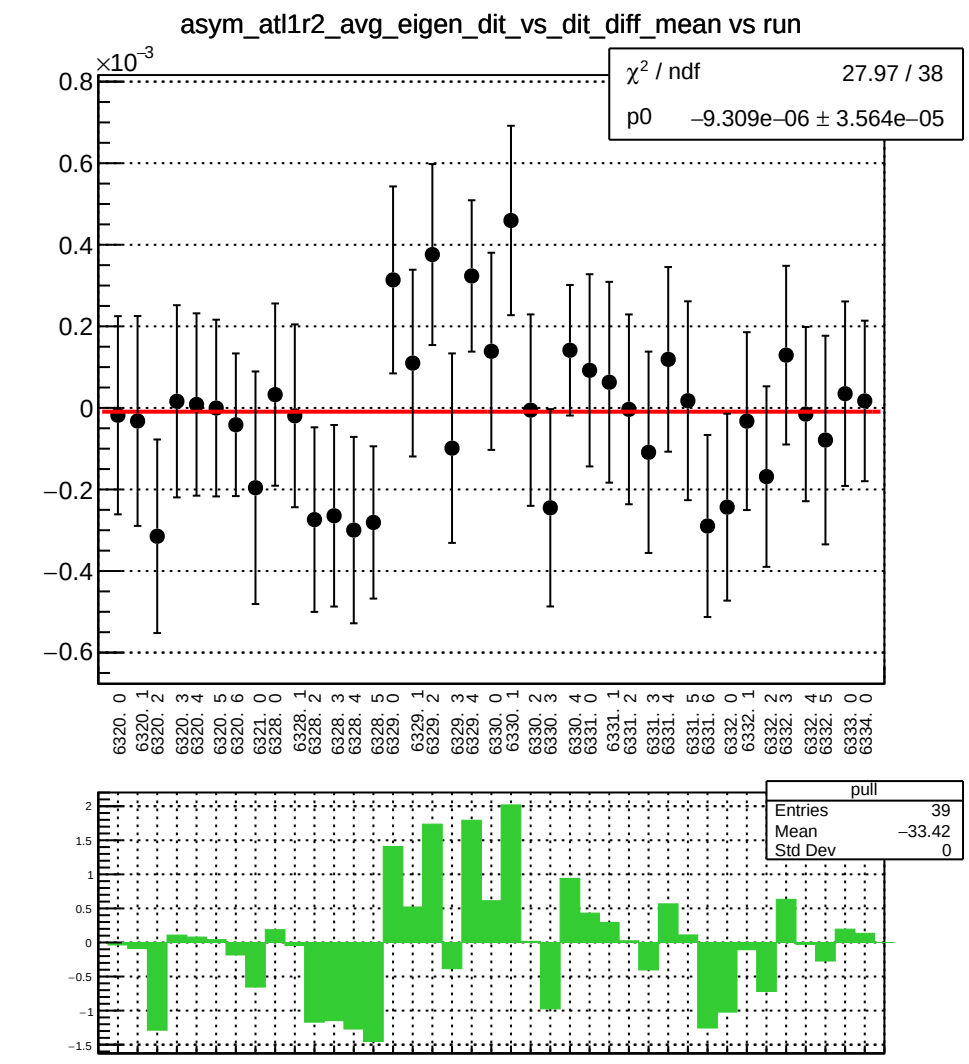

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.442e+05 / 38
p0 1.193e−10 ± 2.579e−13
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

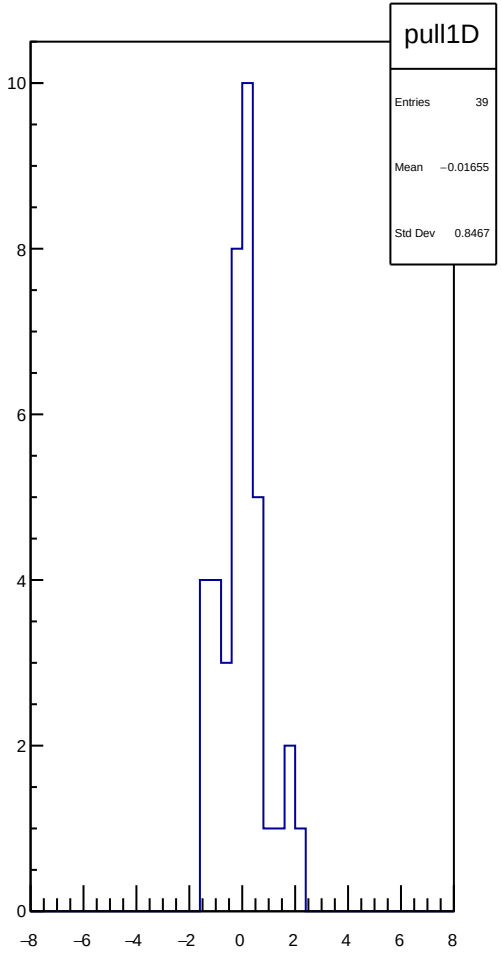

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.76 / 38
p0 0.02018 ± 0.5858
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02864
Std Dev 0.9836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

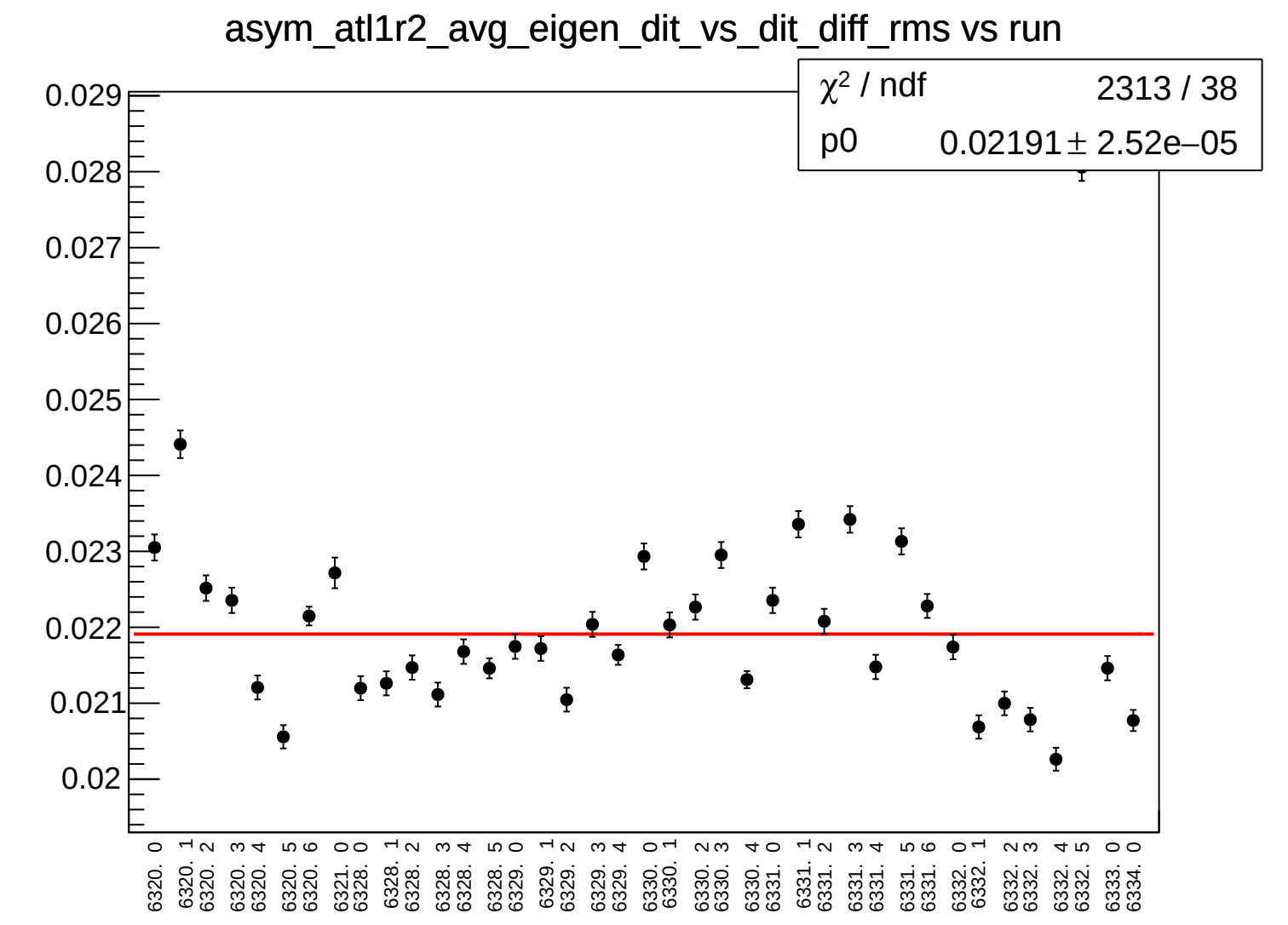

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+04 / 38
p0 357.8 ± 0.4143
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

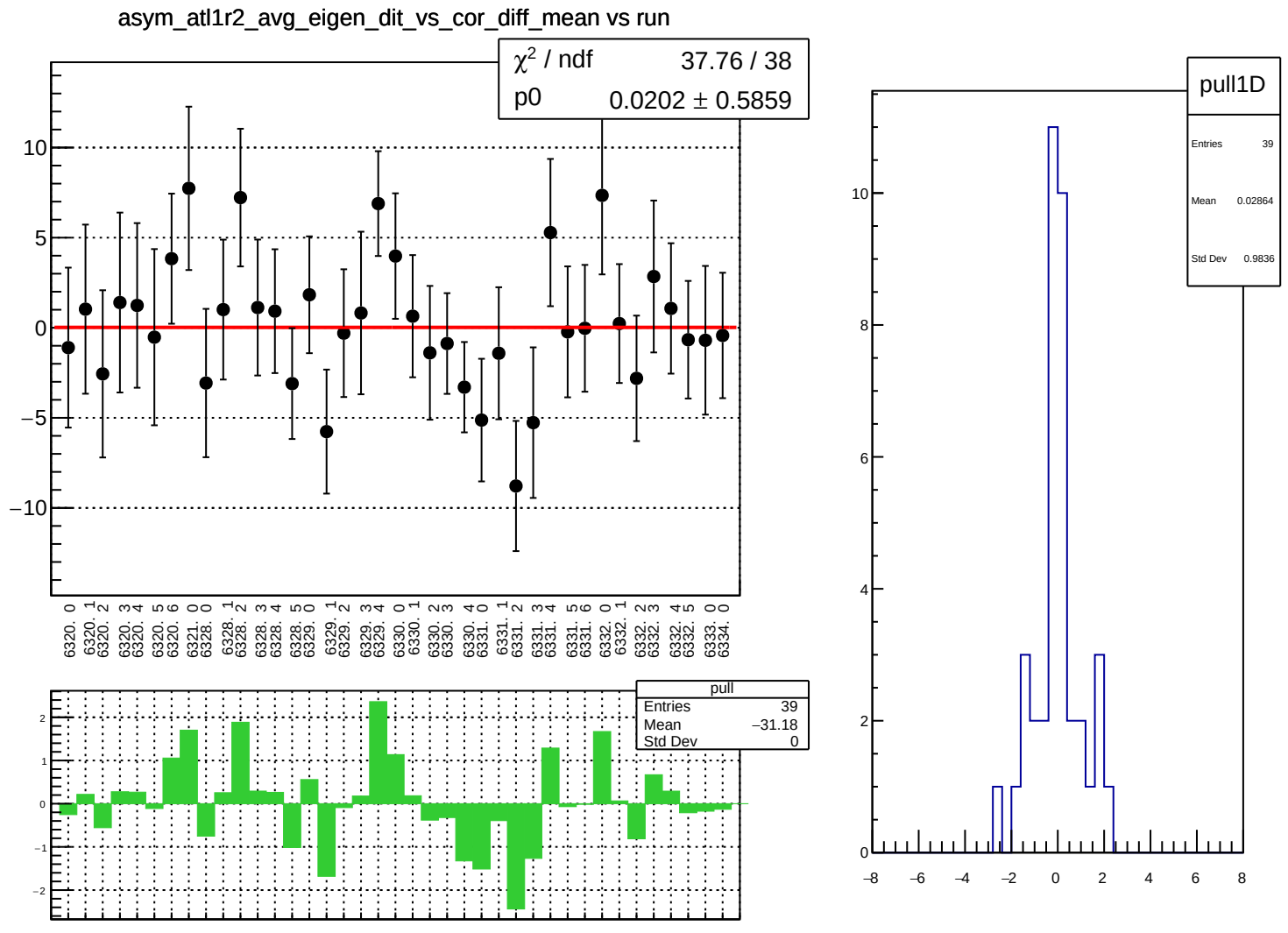

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.76 / 38
p0 0.02018 ± 0.5858
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02864
Std Dev 0.9836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

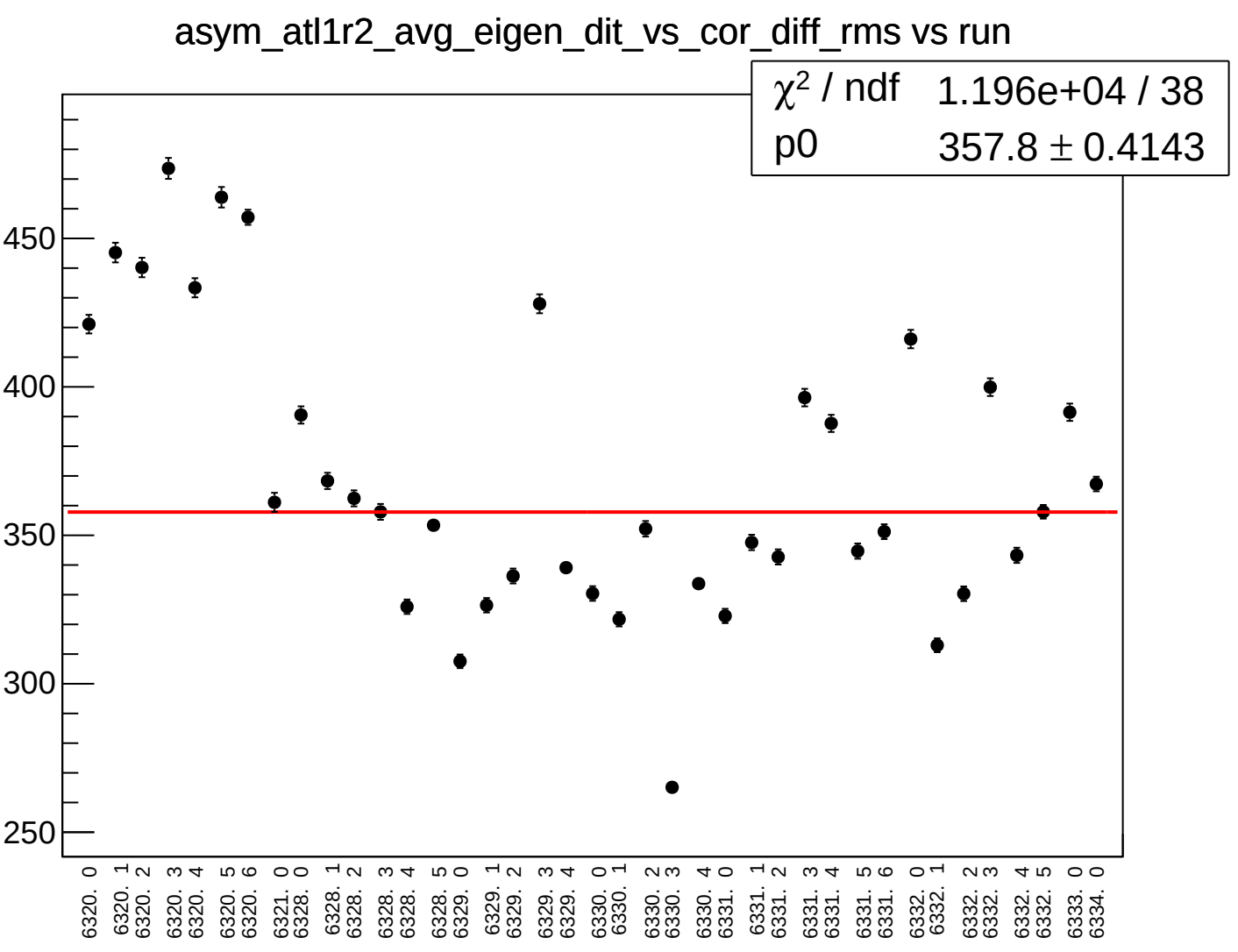

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+04 / 38
p0 357.8 ± 0.4143
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

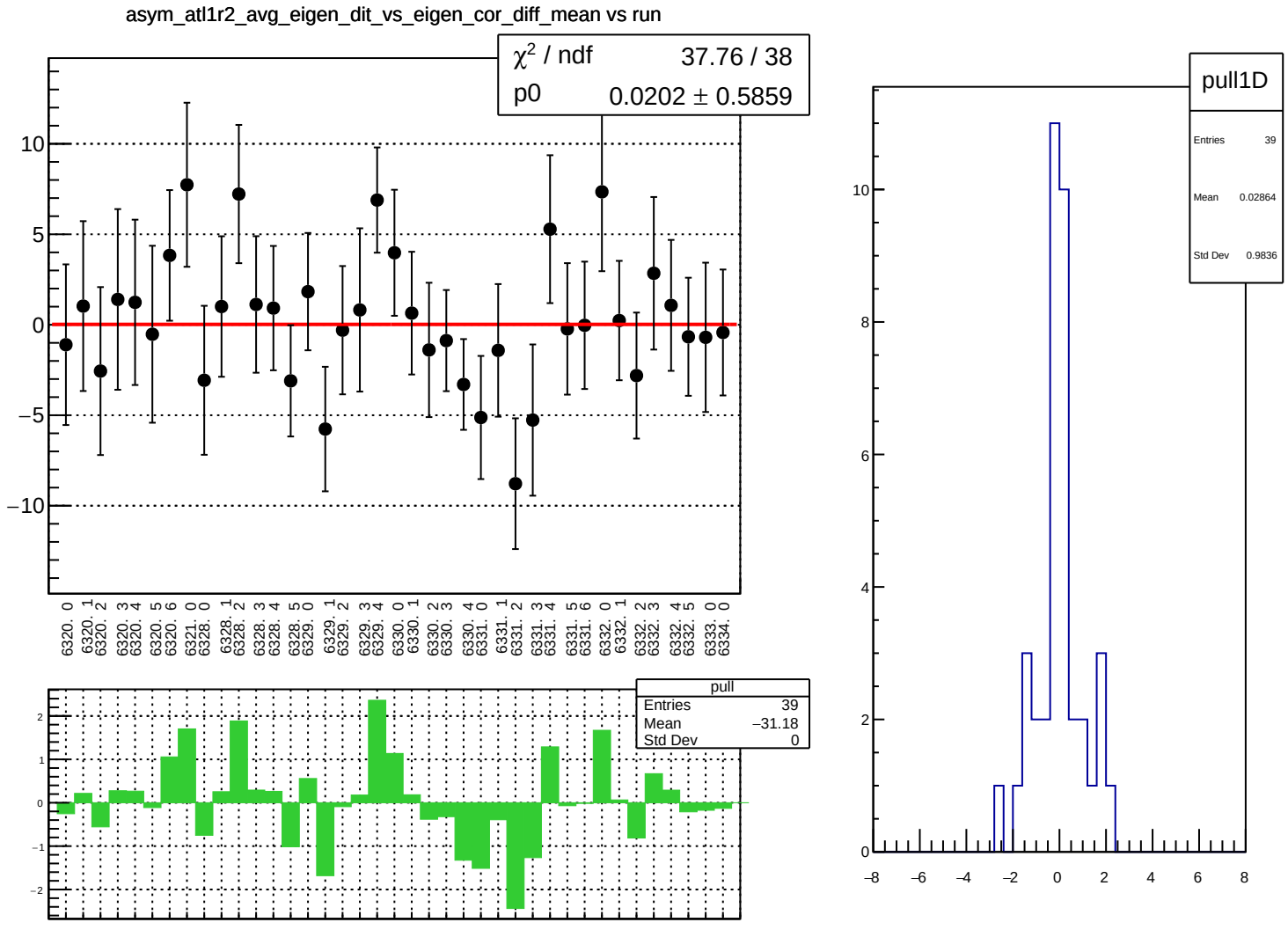

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.97 / 38
p0 −9.309e−06 ± 3.564e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −33.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

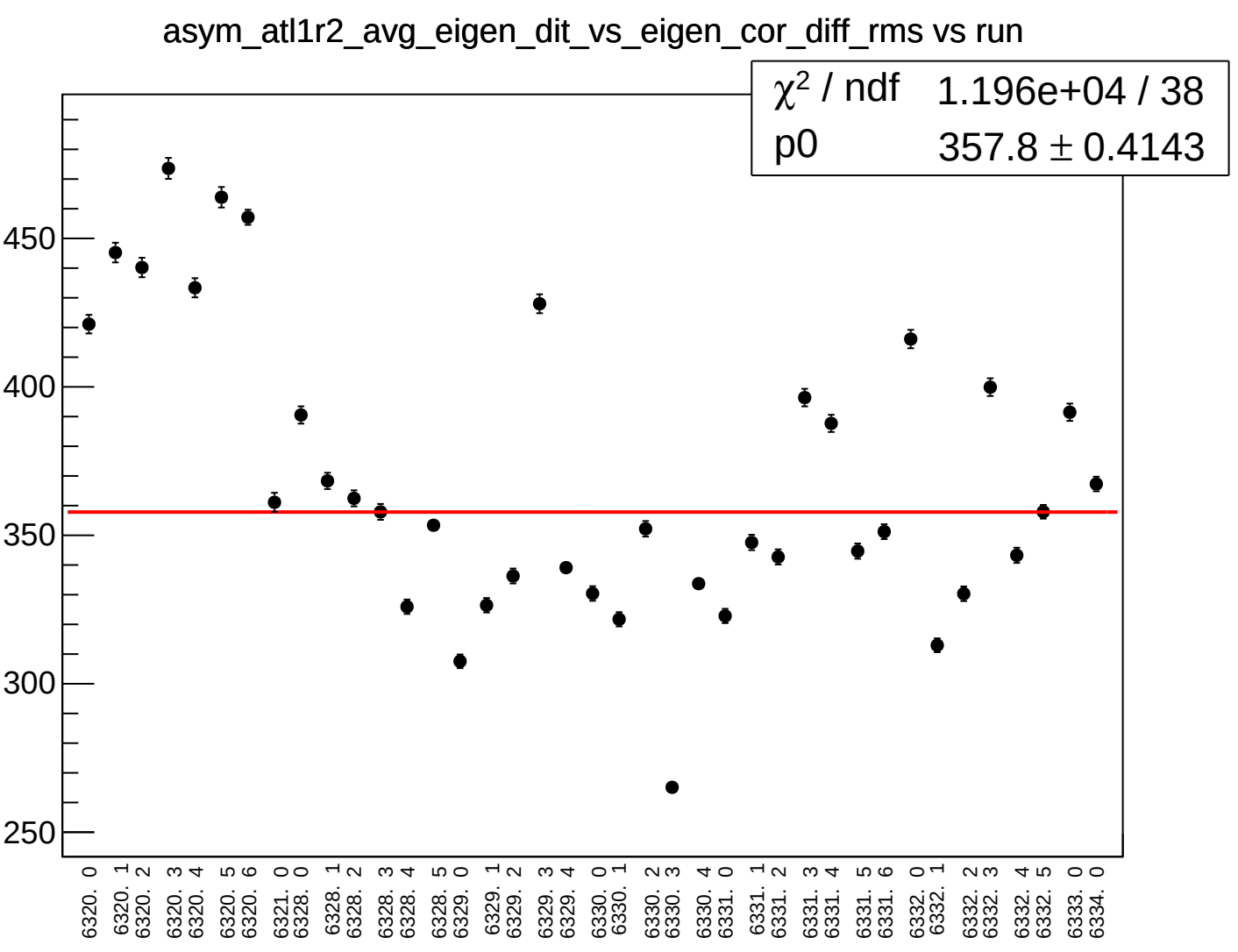

pull1D
Entries 39
Mean −0.01655
Std Dev 0.8467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

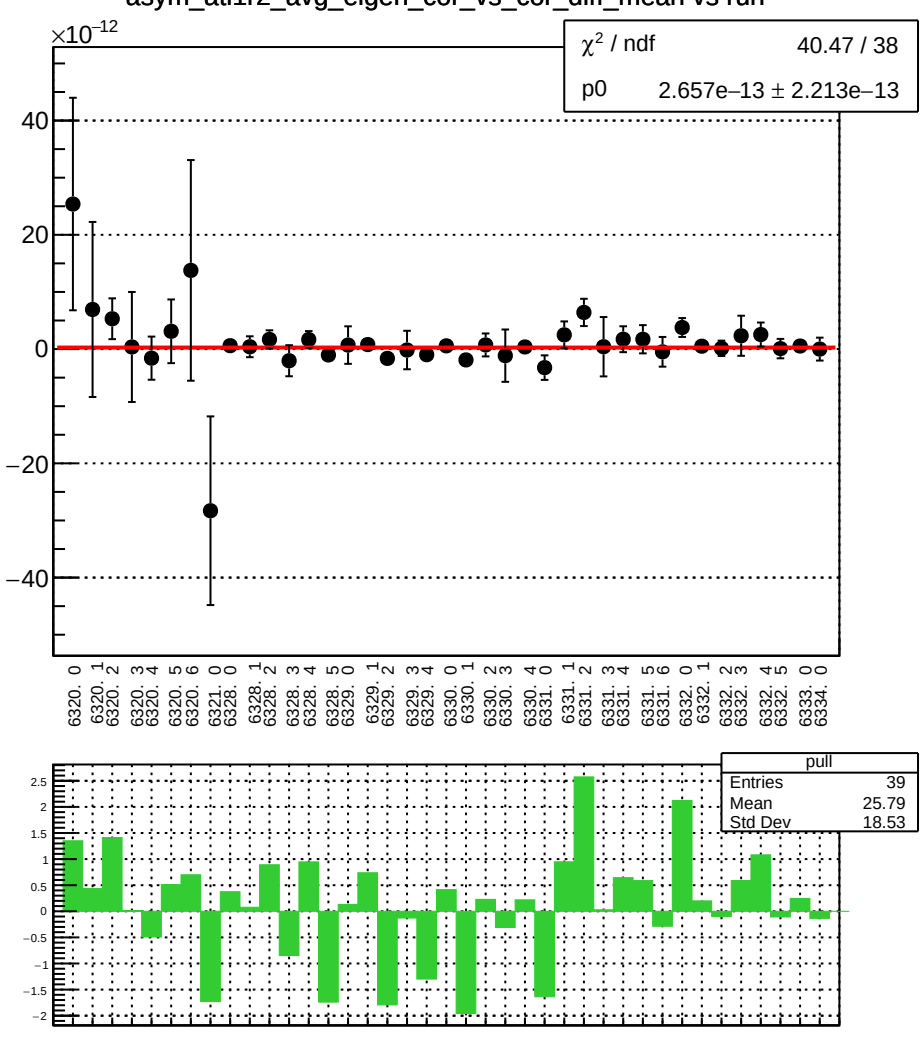

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2313 / 38
p0 0.02191 ± 2.52e–05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

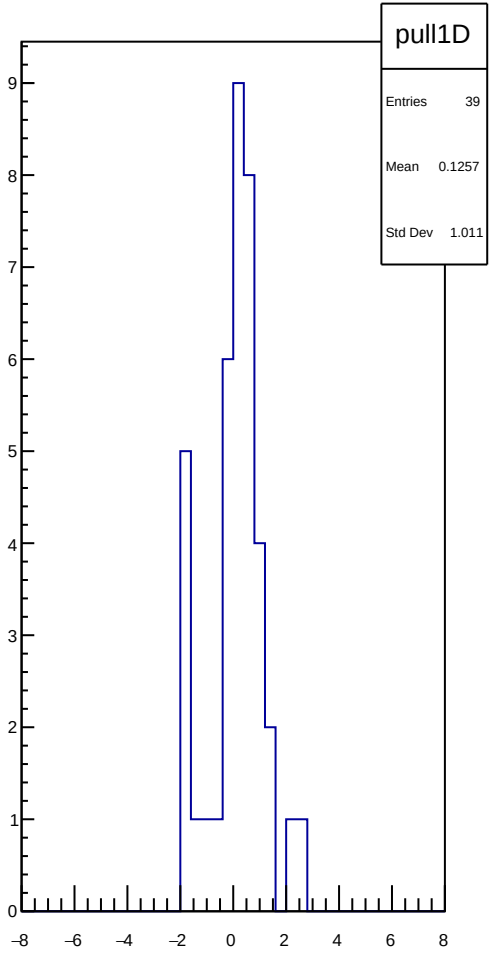

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.76 / 38
p0 0.0202 ± 0.5859
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02864
Std Dev 0.9836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

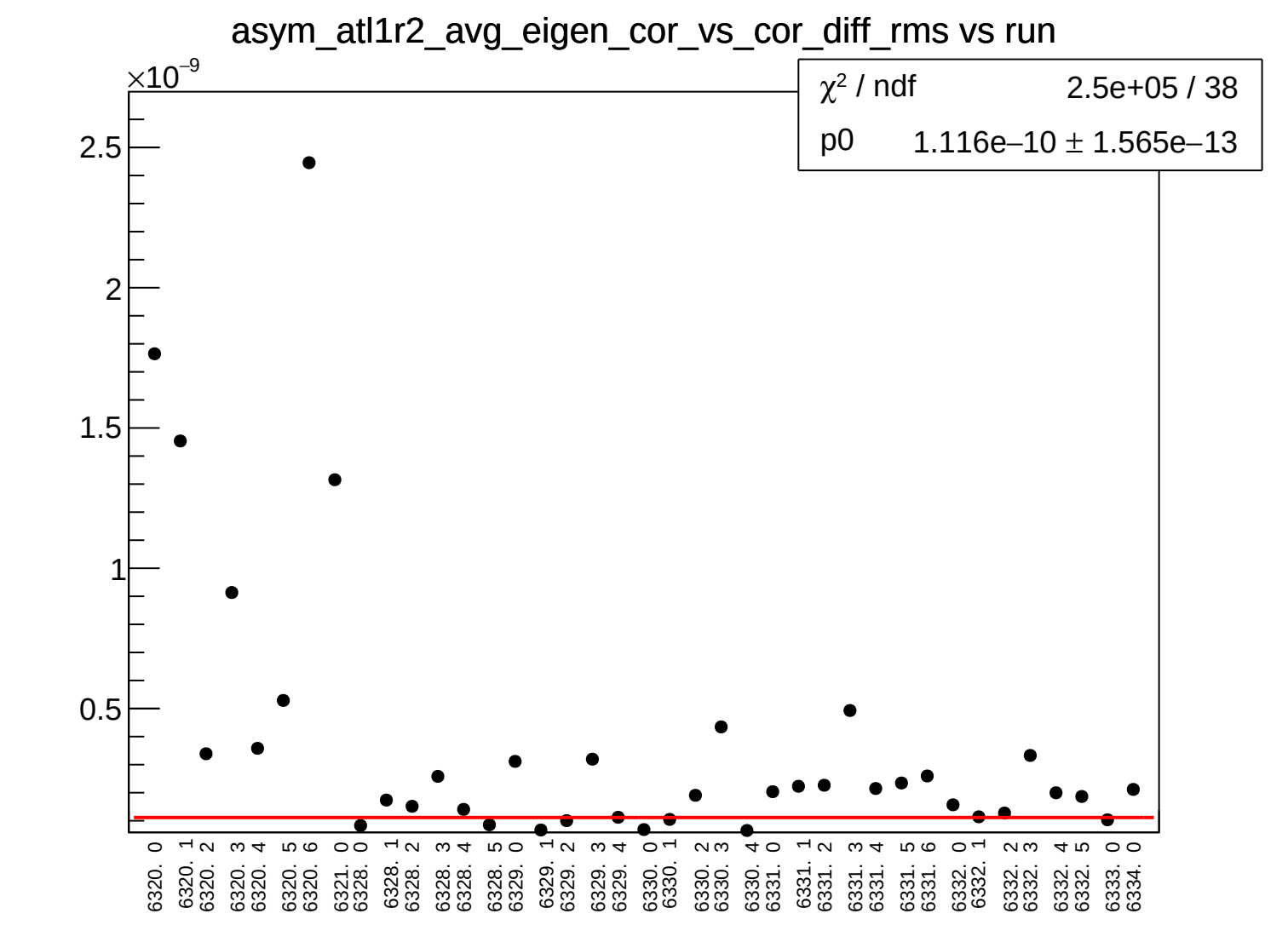

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+04 / 38
p0 357.8 ± 0.4143
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

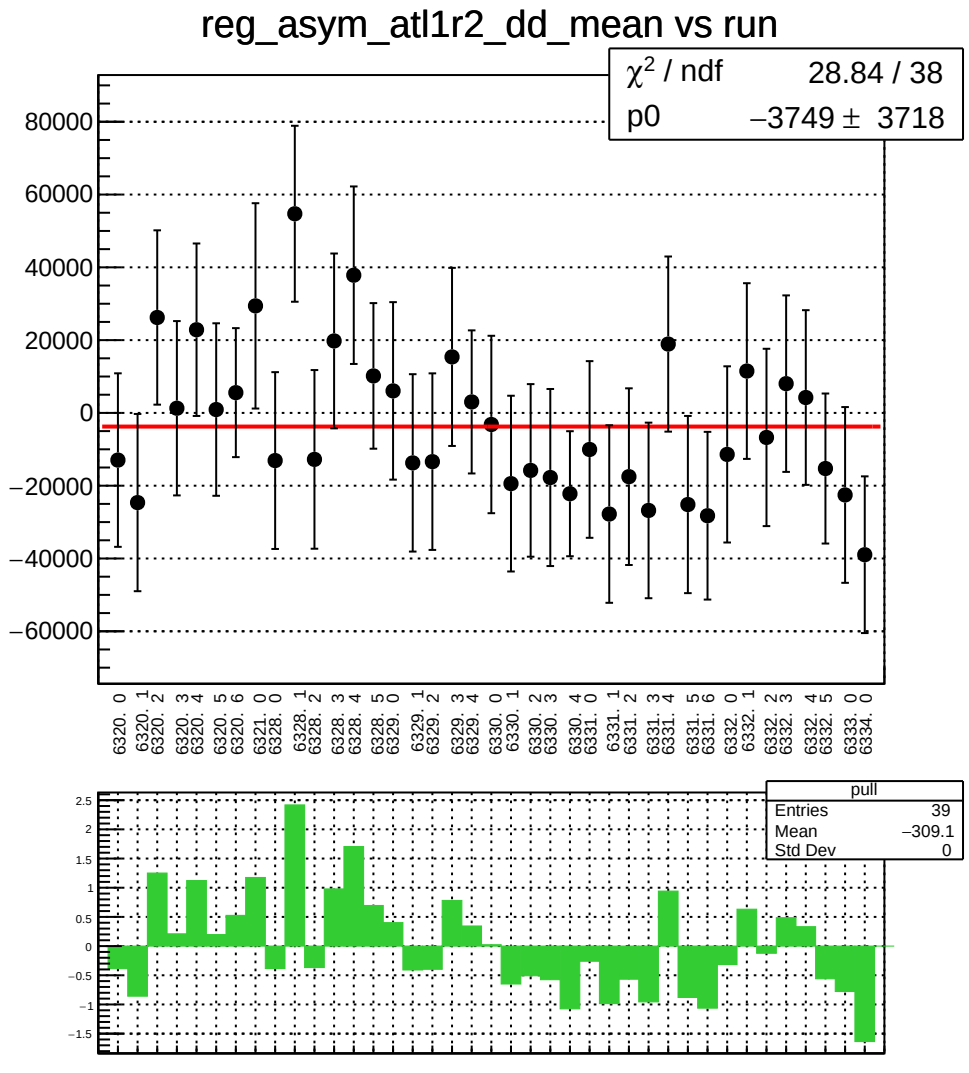

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.76 / 38
p0 0.0202 ± 0.5859
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02864
Std Dev 0.9836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

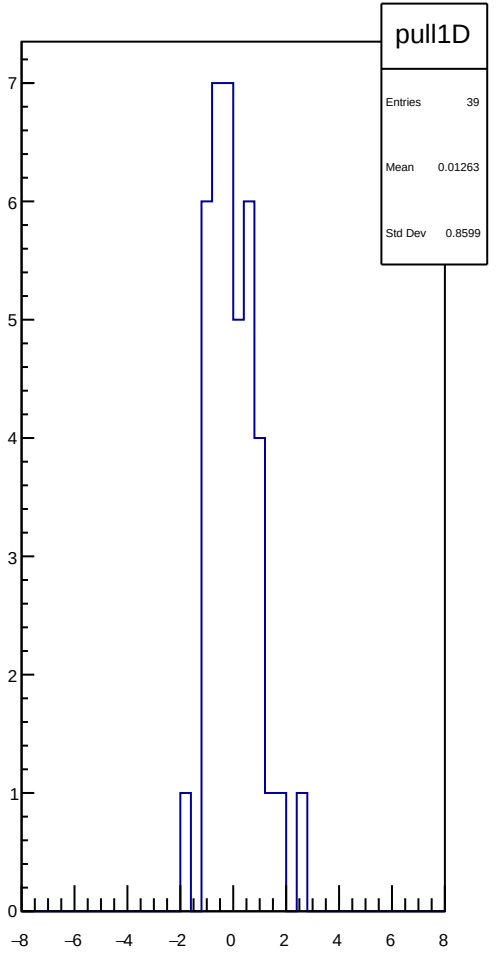

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+04 / 38
p0 357.8 ± 0.4143
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

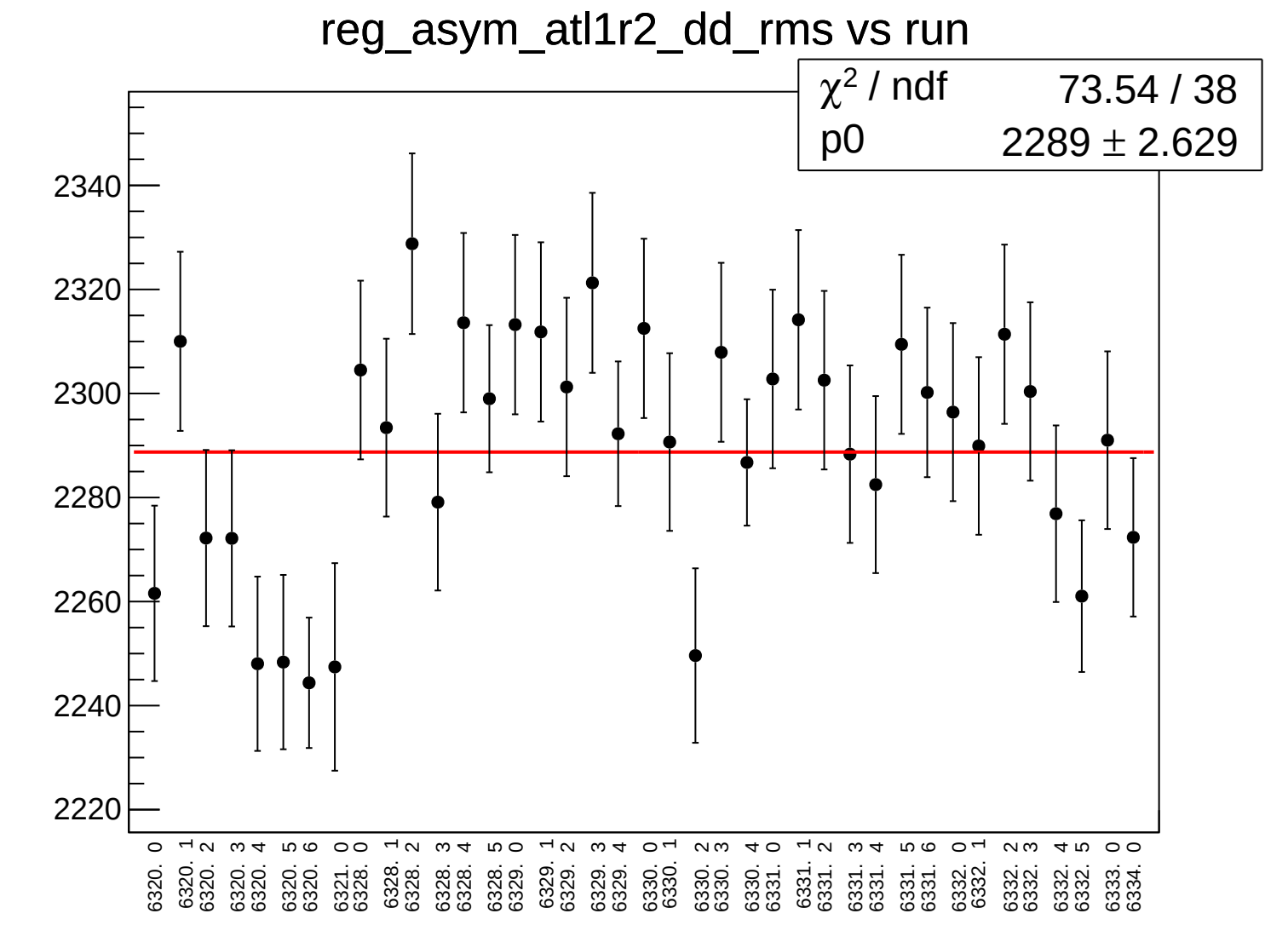

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.47 / 38
p0 2.657e−13 ± 2.213e−13
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 25.79
Std Dev 18.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

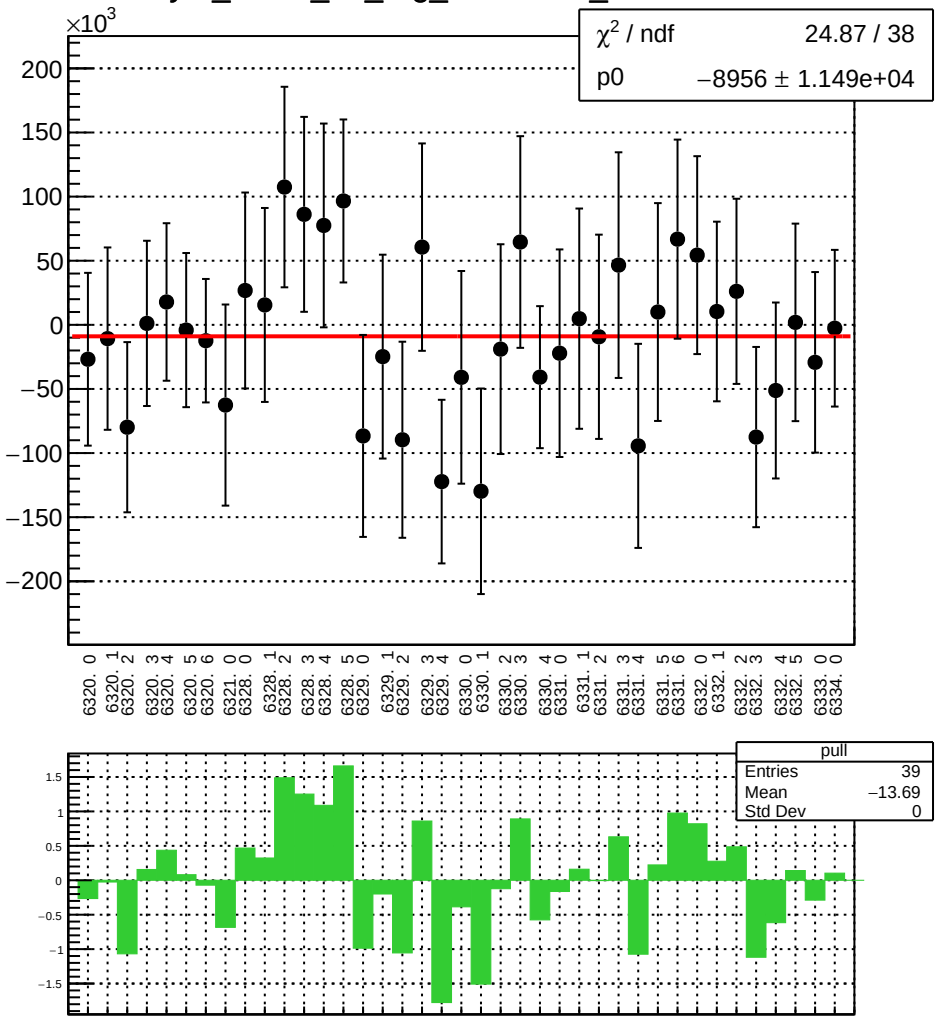

pull1D
Entries 39
Mean 0.1257
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

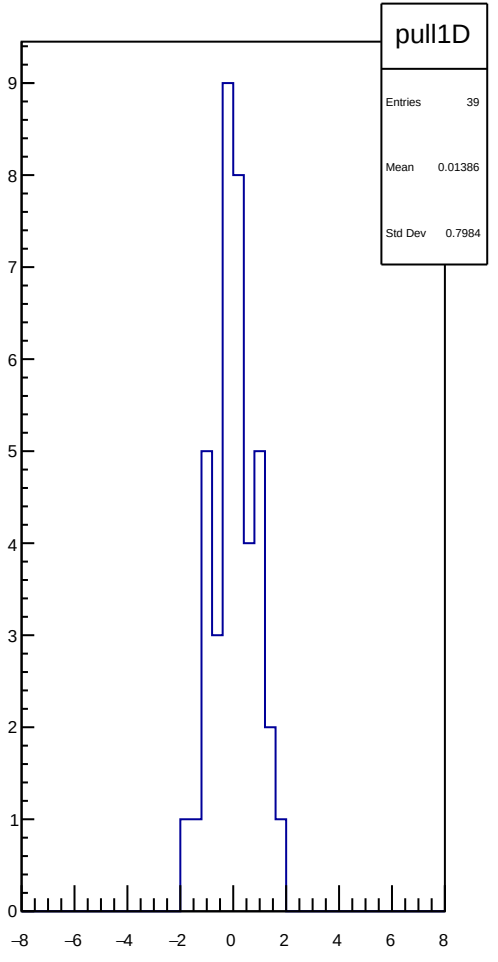

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.5e+05 / 38
p0 1.116e−10 ± 1.565e−13
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

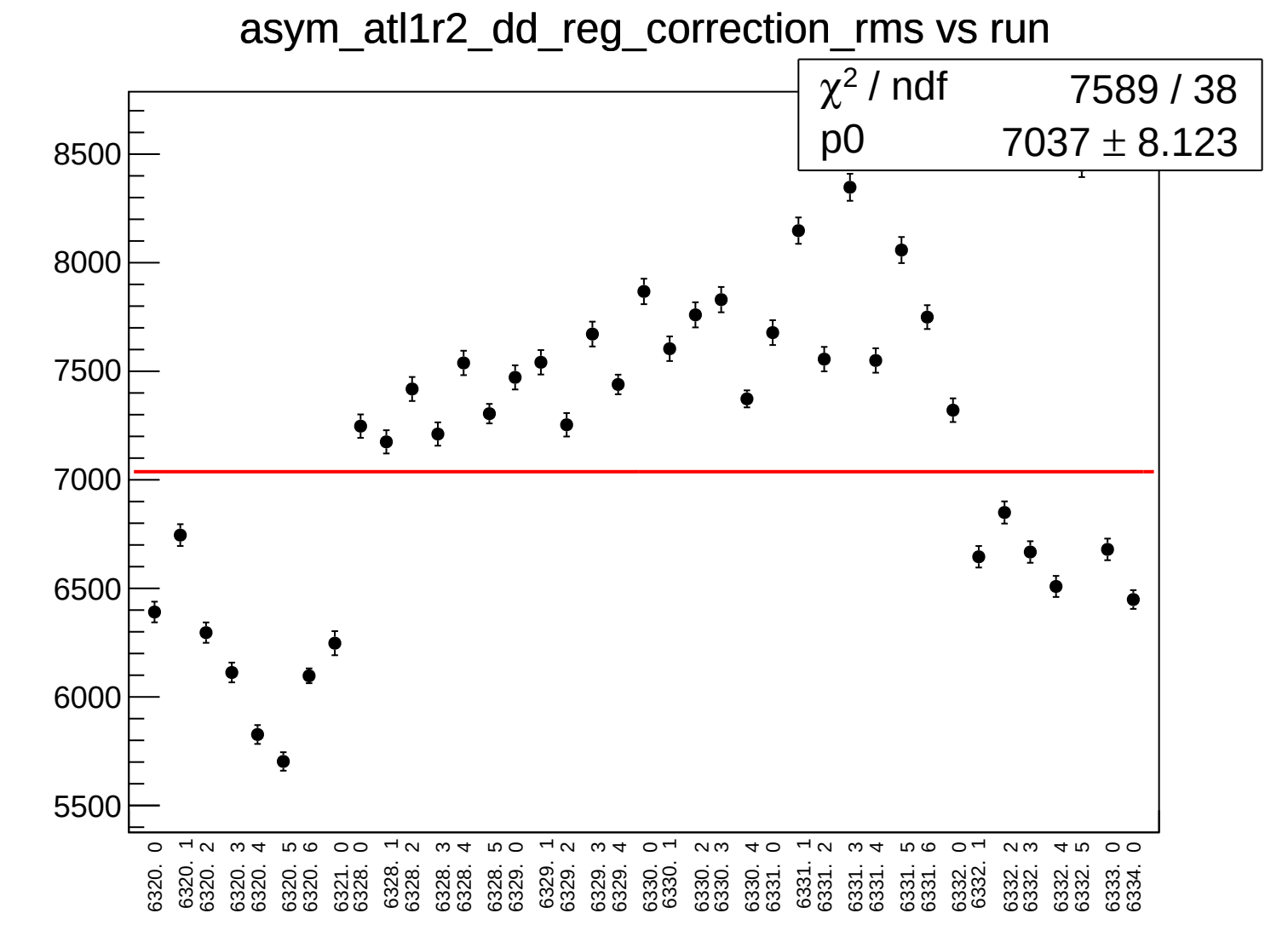

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 28.84 / 38
p0 −3749 ± 3718
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −309.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

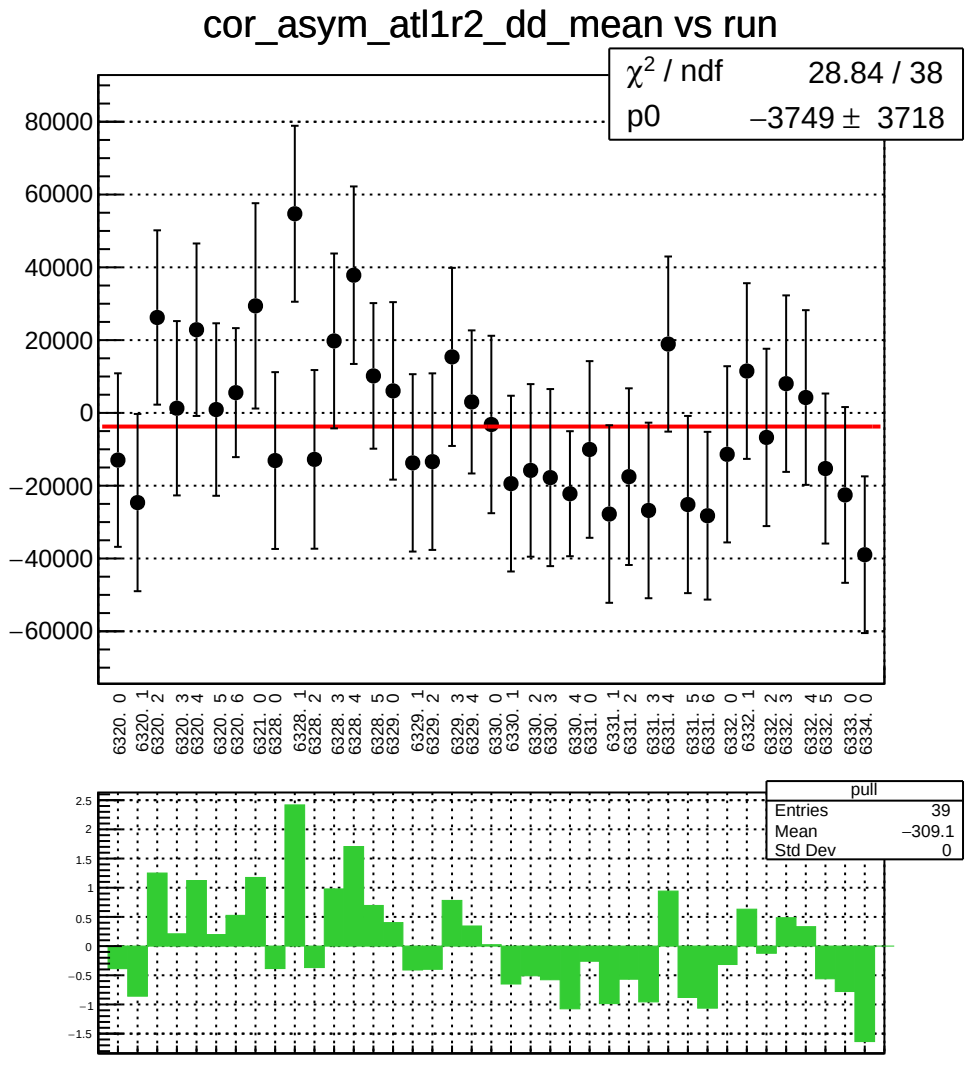

pull1D
Entries 39
Mean 0.01263
Std Dev 0.8599
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

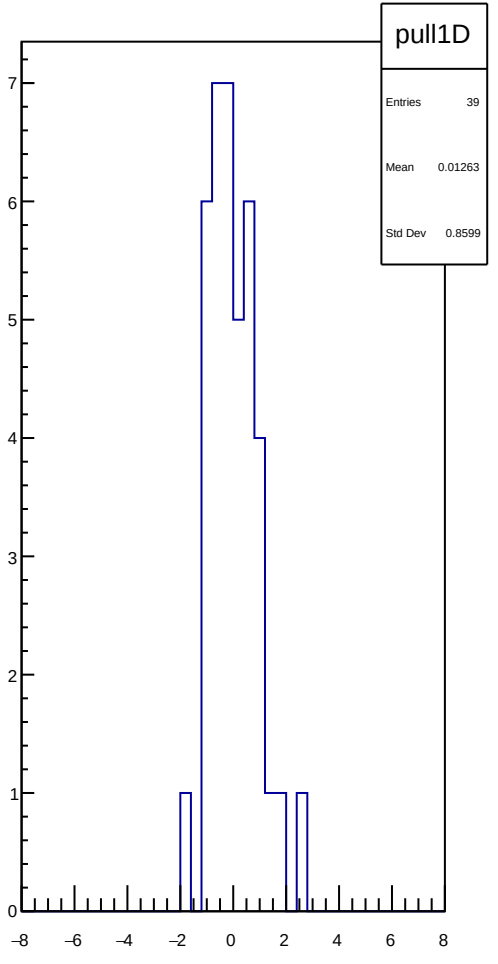

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 73.54 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

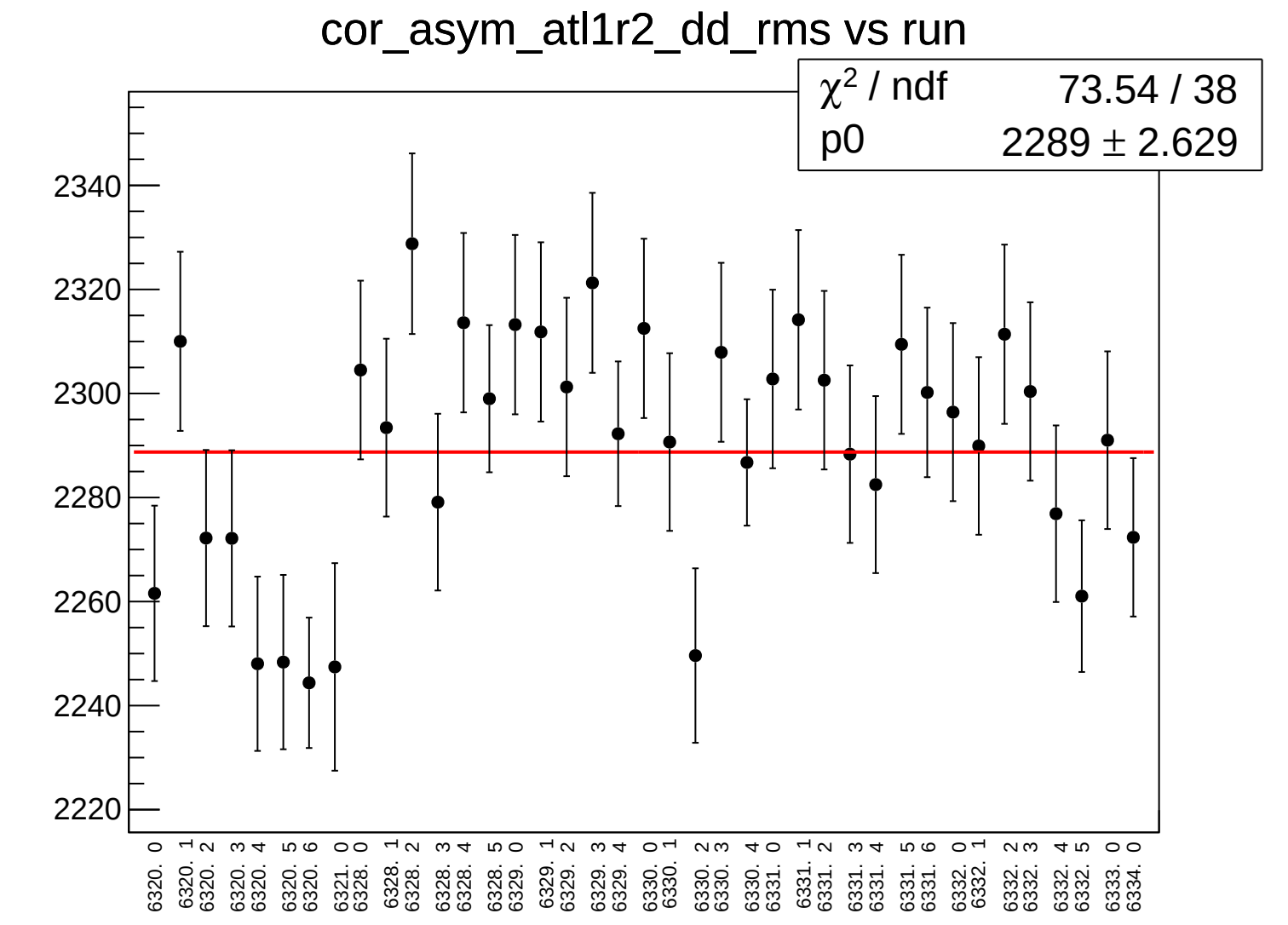

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 −8956 ± 1.149e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

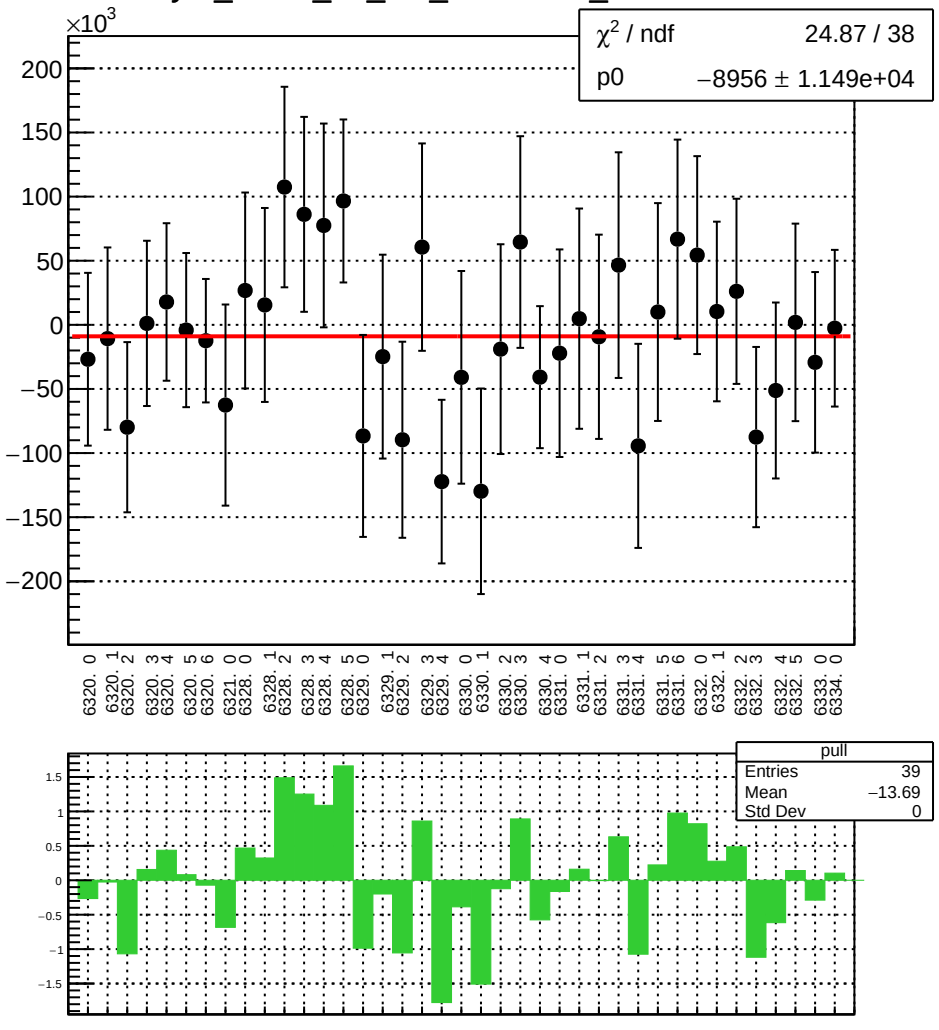

pull1D
Entries 39
Mean 0.01386
Std Dev 0.7984
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

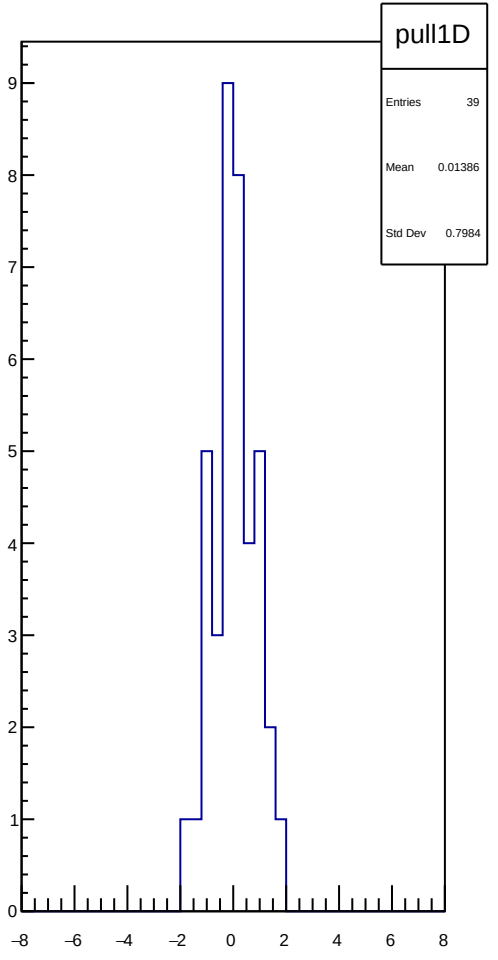

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 7589 / 38
p0 7037 ± 8.123
8500
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 28.84 / 38
p0 −3749 ± 3718
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −309.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01263
Std Dev 0.8599
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 73.54 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 −8956 ± 1.149e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01386
Std Dev 0.7984
9
8
7
6
5
4
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2
1
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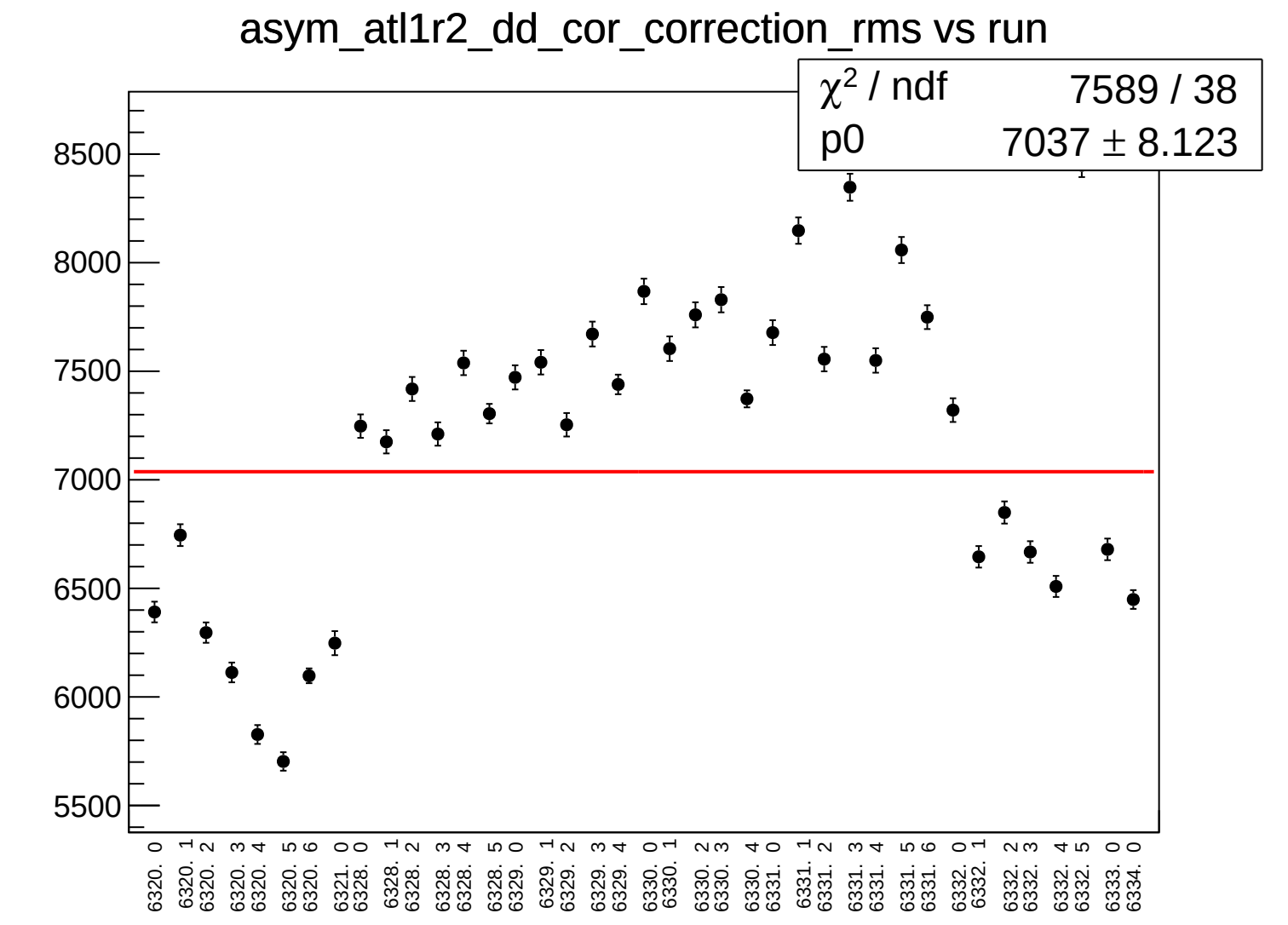
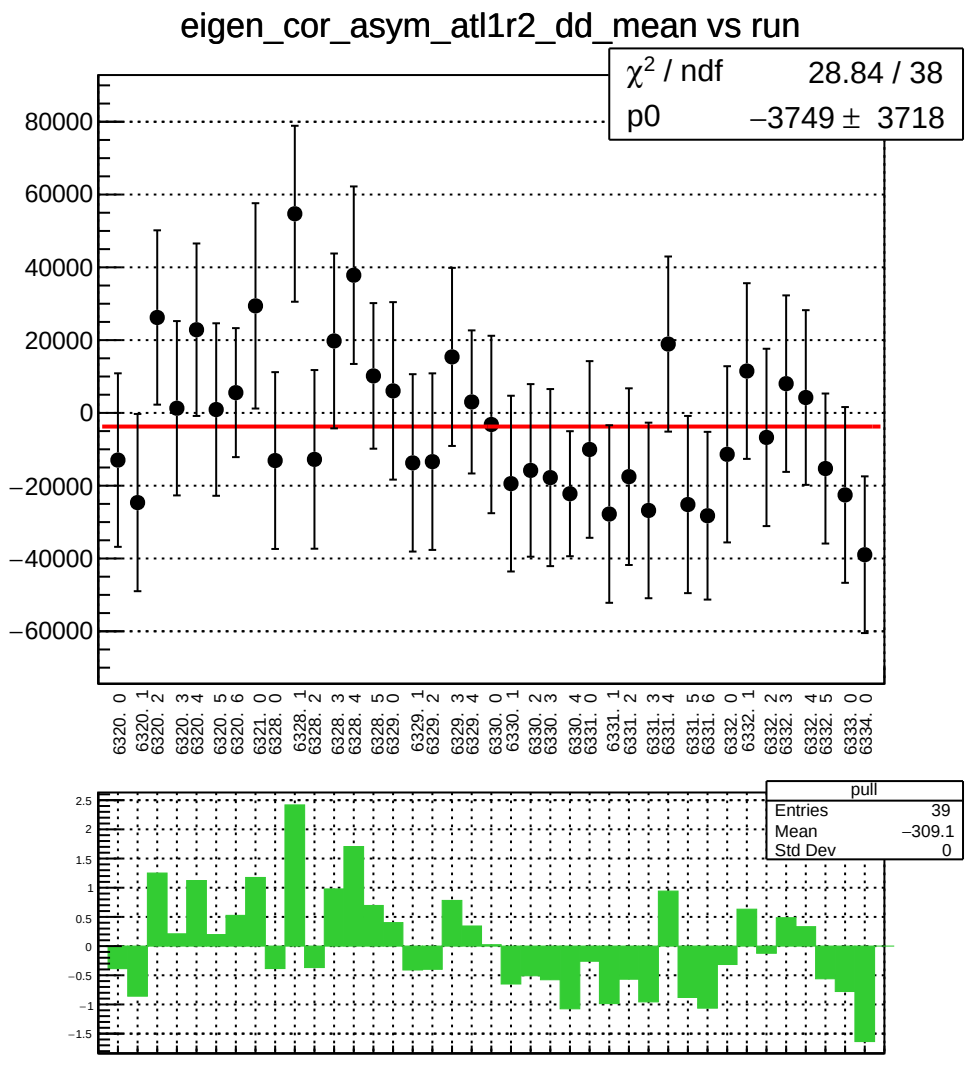
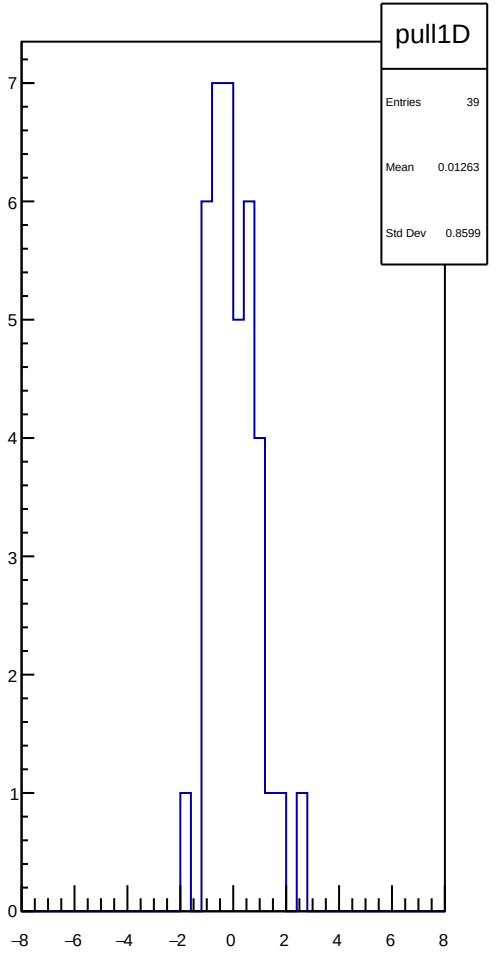
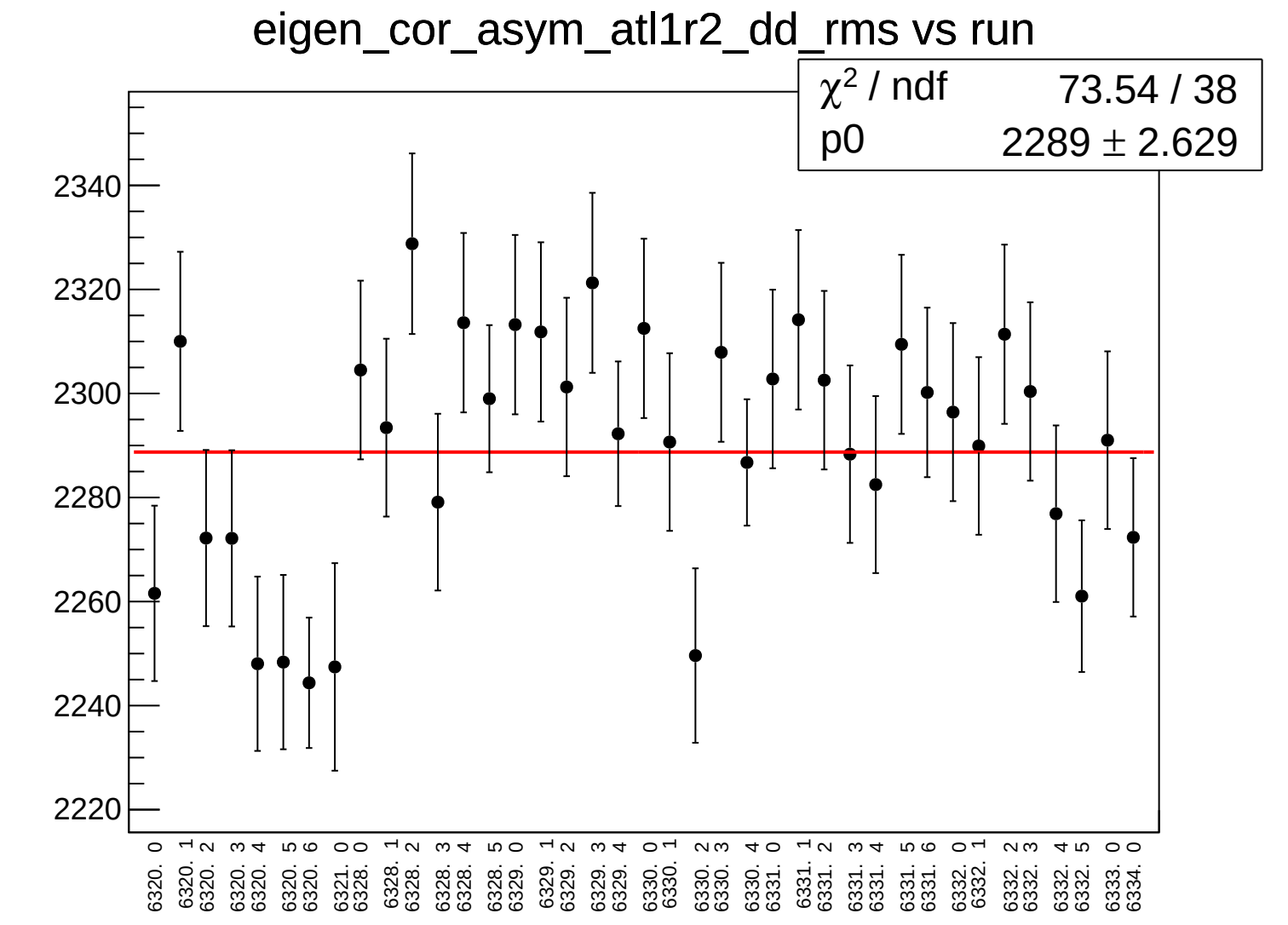
−8
−6
−4
−2
0
2
4
6
8

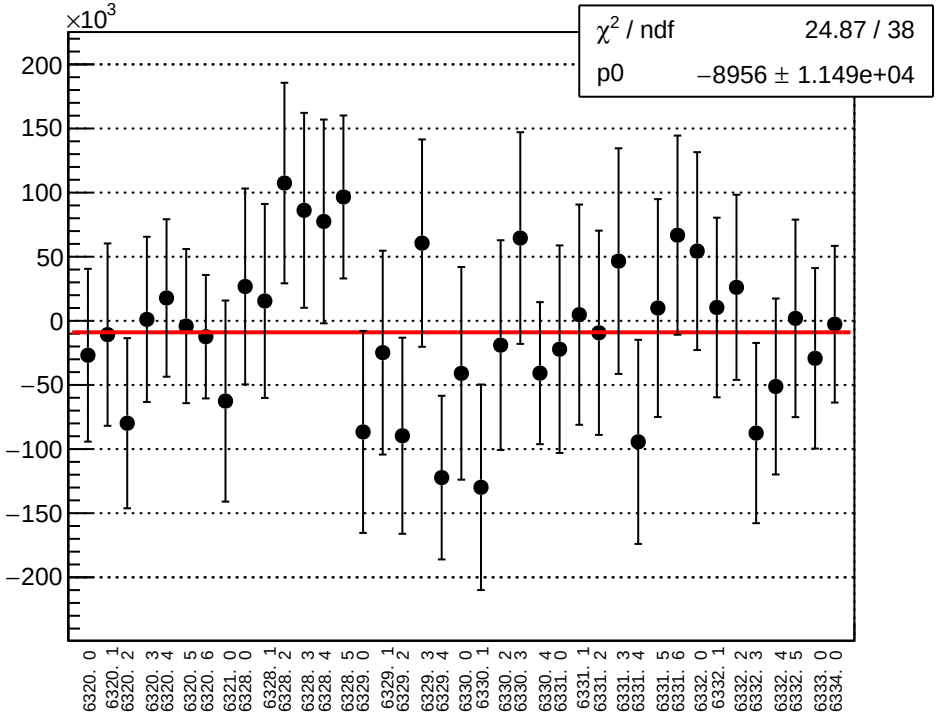

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 7589 / 38
p0 7037 ± 8.123
8500
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

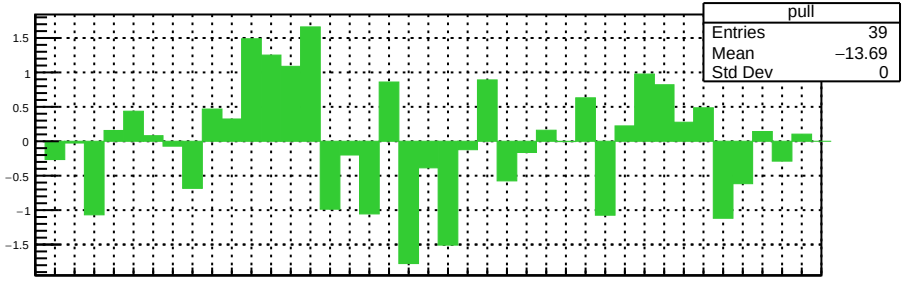

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 28.84 / 38
p0 −3749 ± 3718
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −309.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

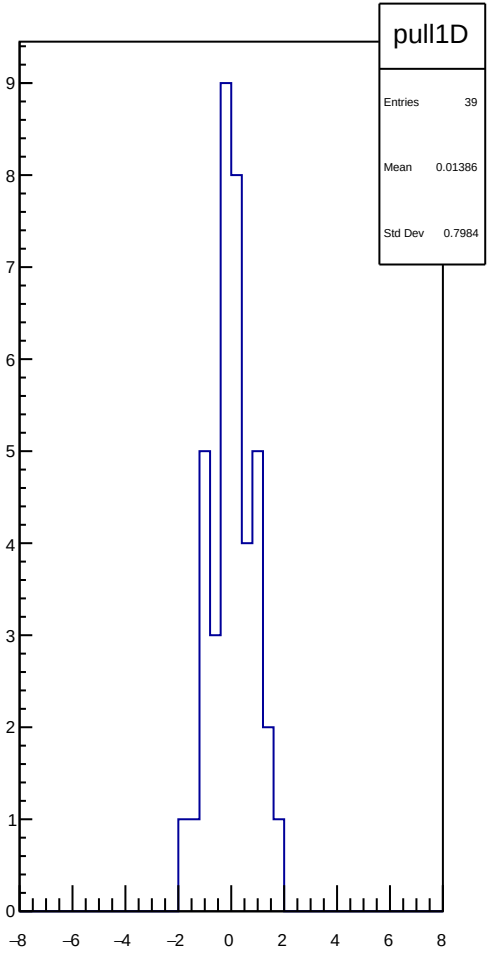

pull1D
Entries 39
Mean 0.01263
Std Dev 0.8599
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

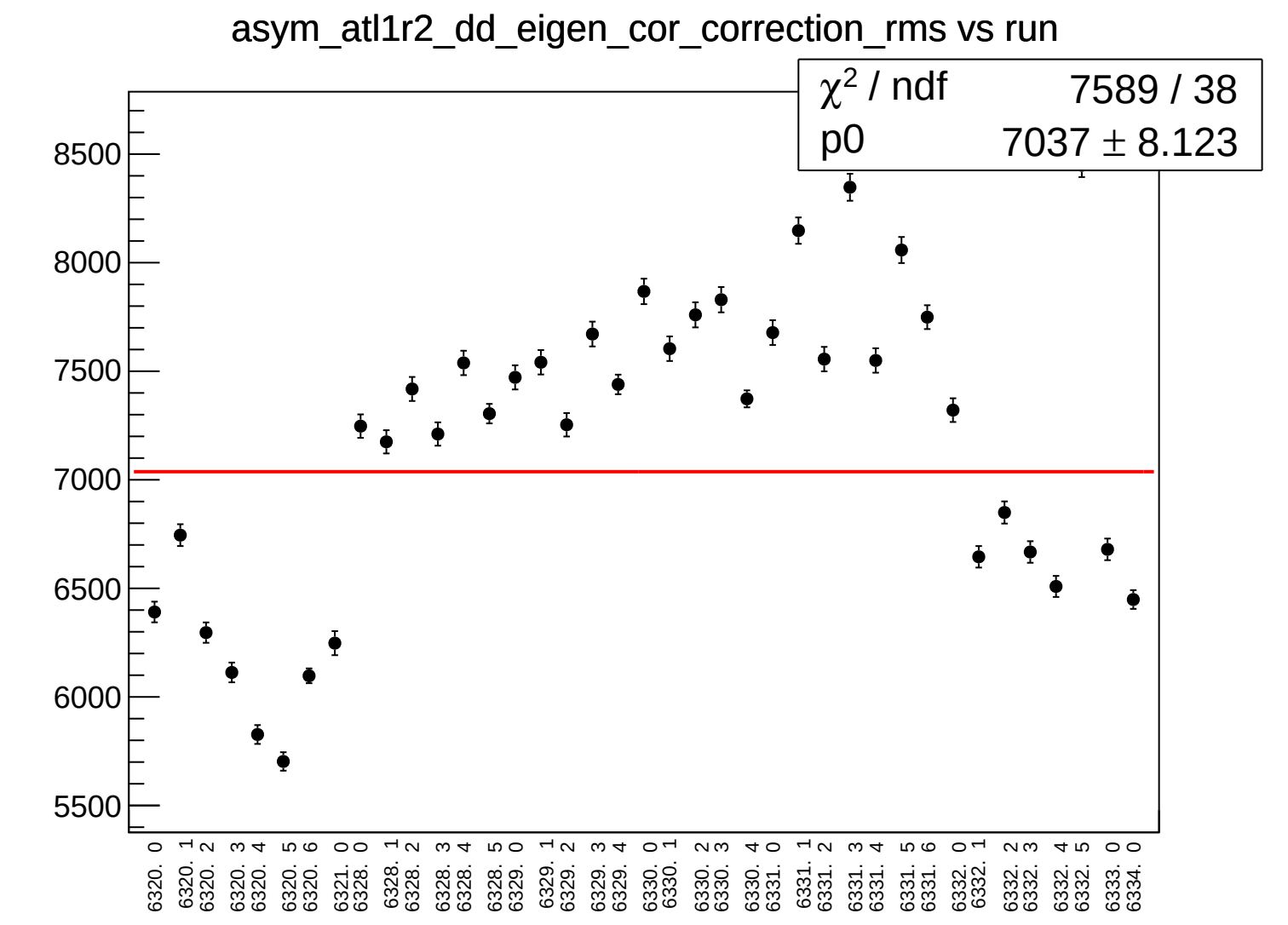

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 73.54 / 38
p0 2289 ± 2.629
2340
2320
2300
2280
2260
2240
2220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

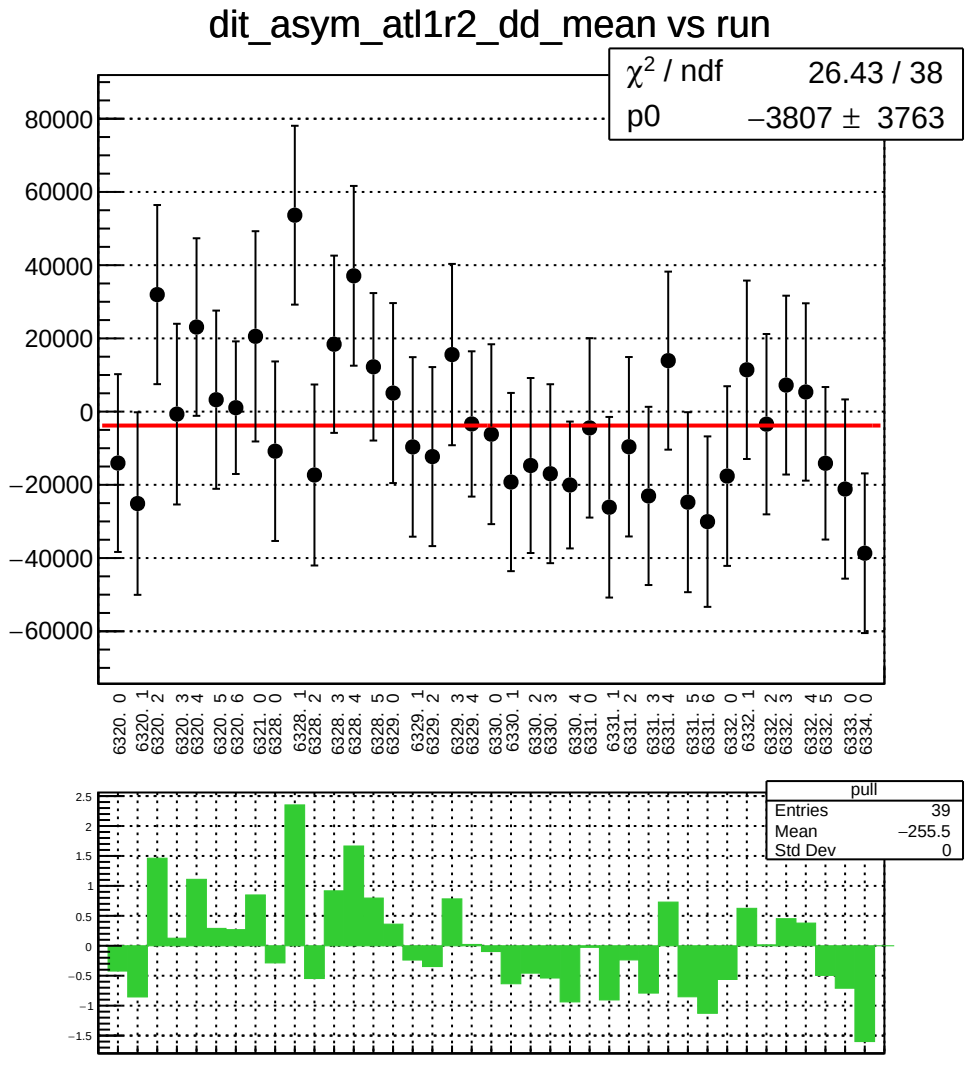
asym_atl1r2_dd_eigen_cor_correction_mean vs run

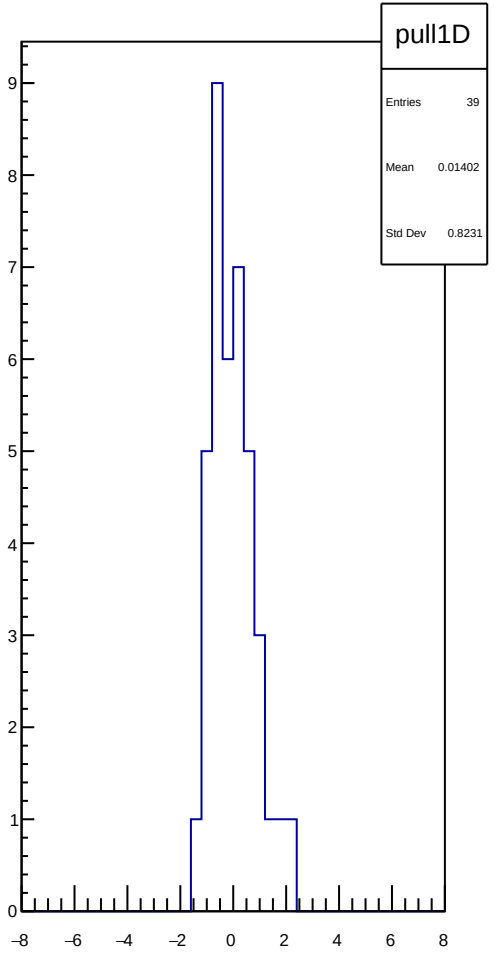


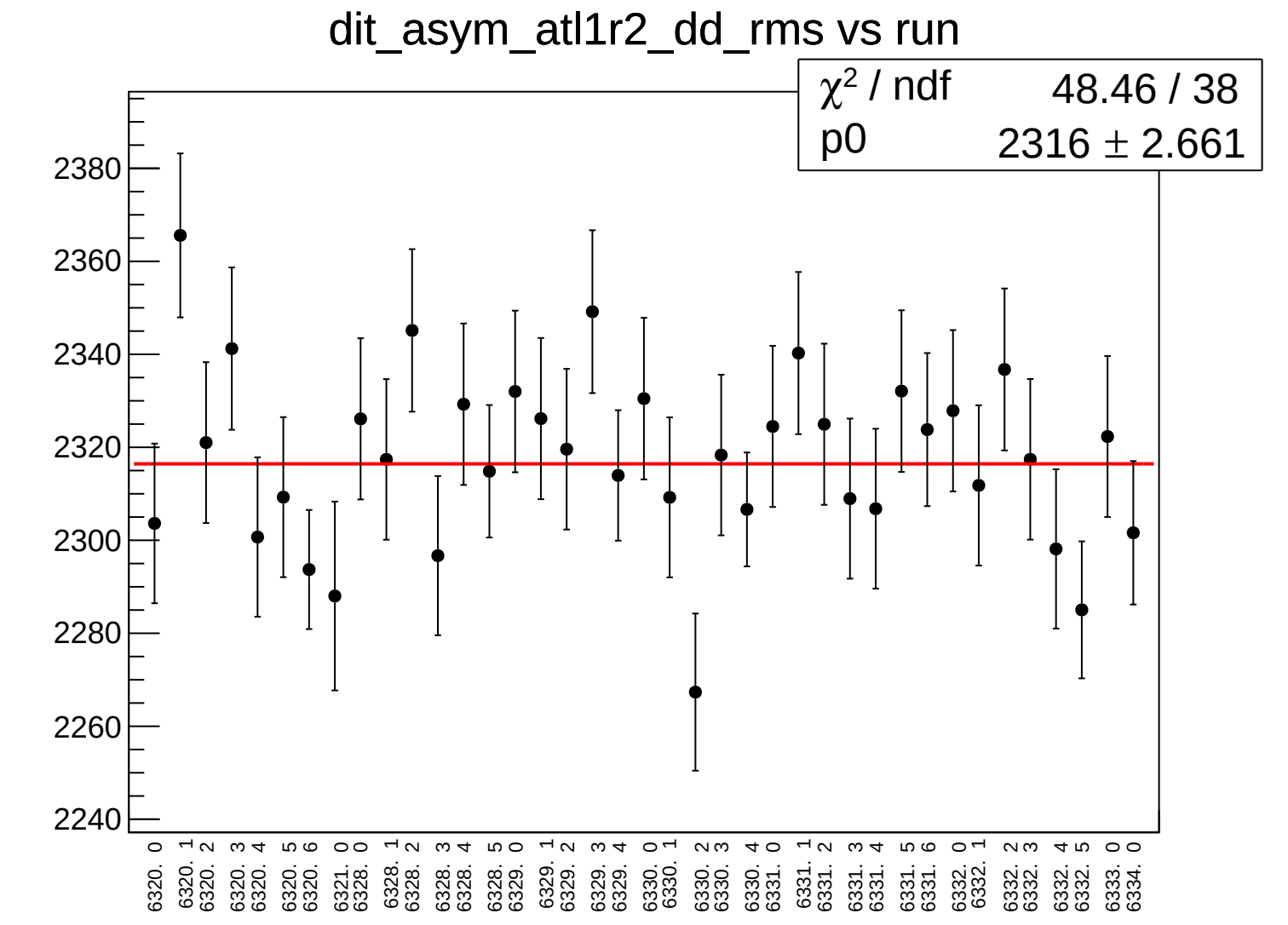


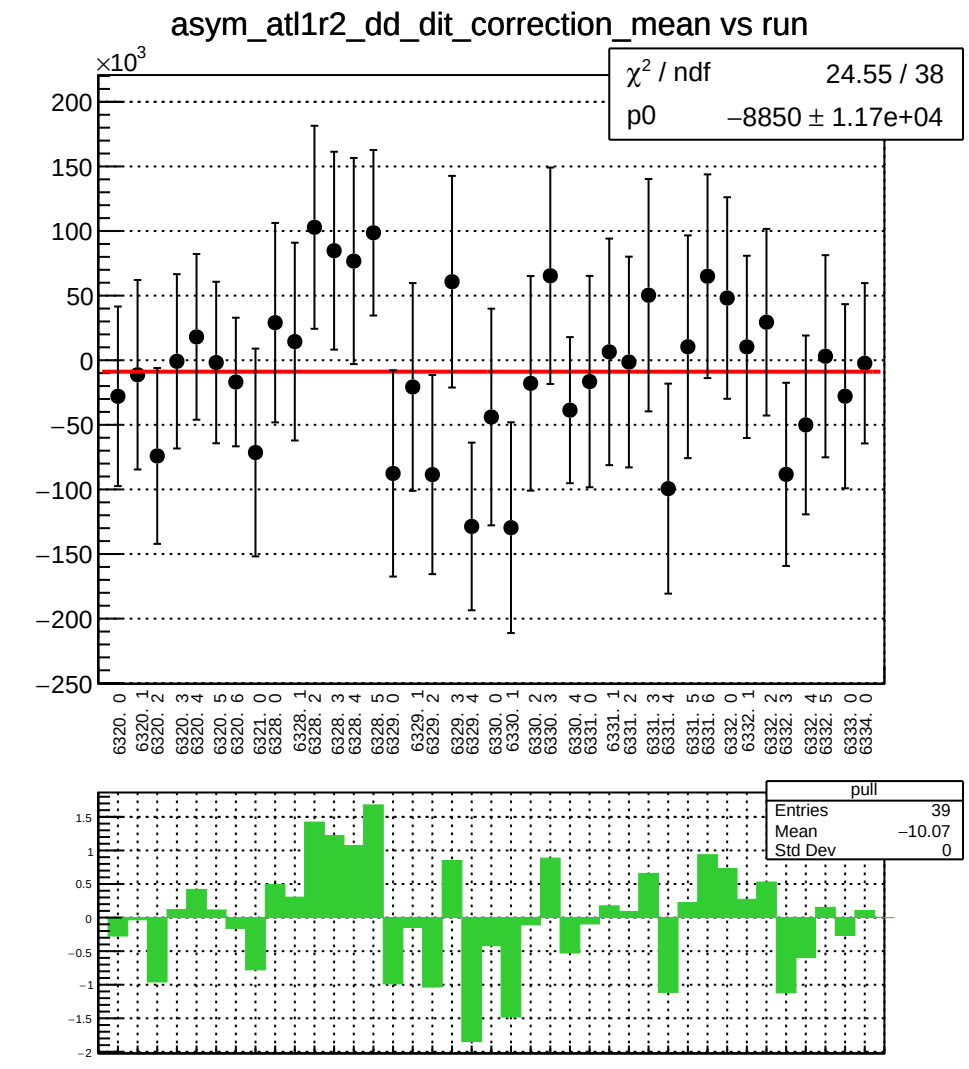


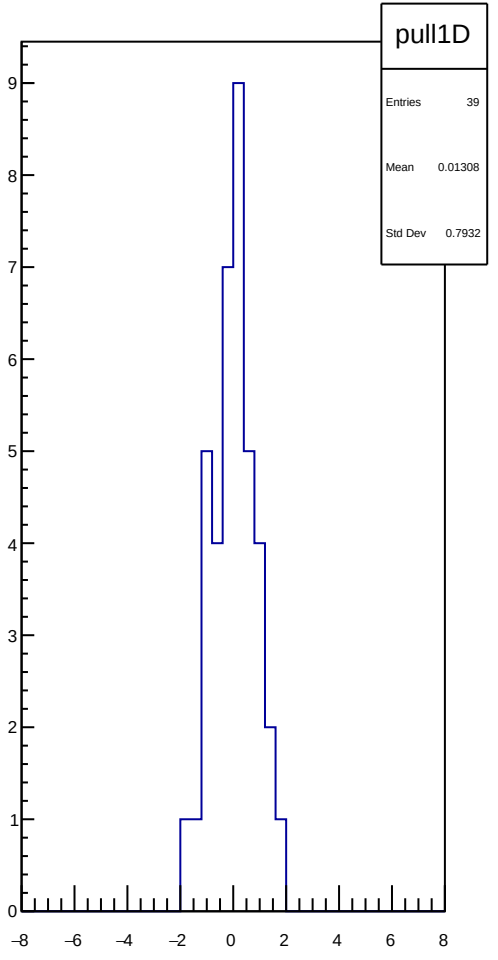

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7589 / 38
p0 7037 ± 8.123
8500
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

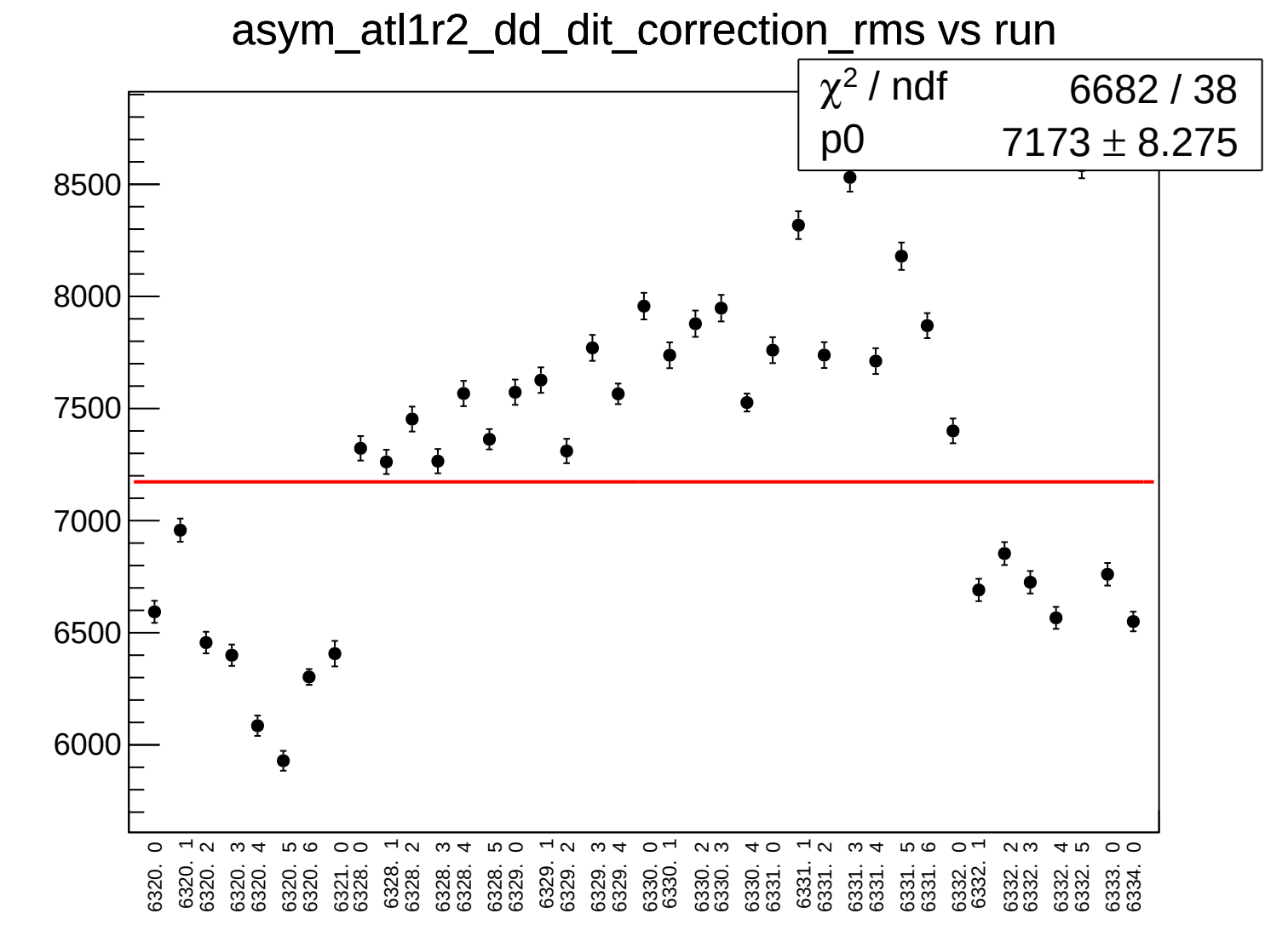

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 26.43 / 38
p0 −3807 ± 3763
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −255.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

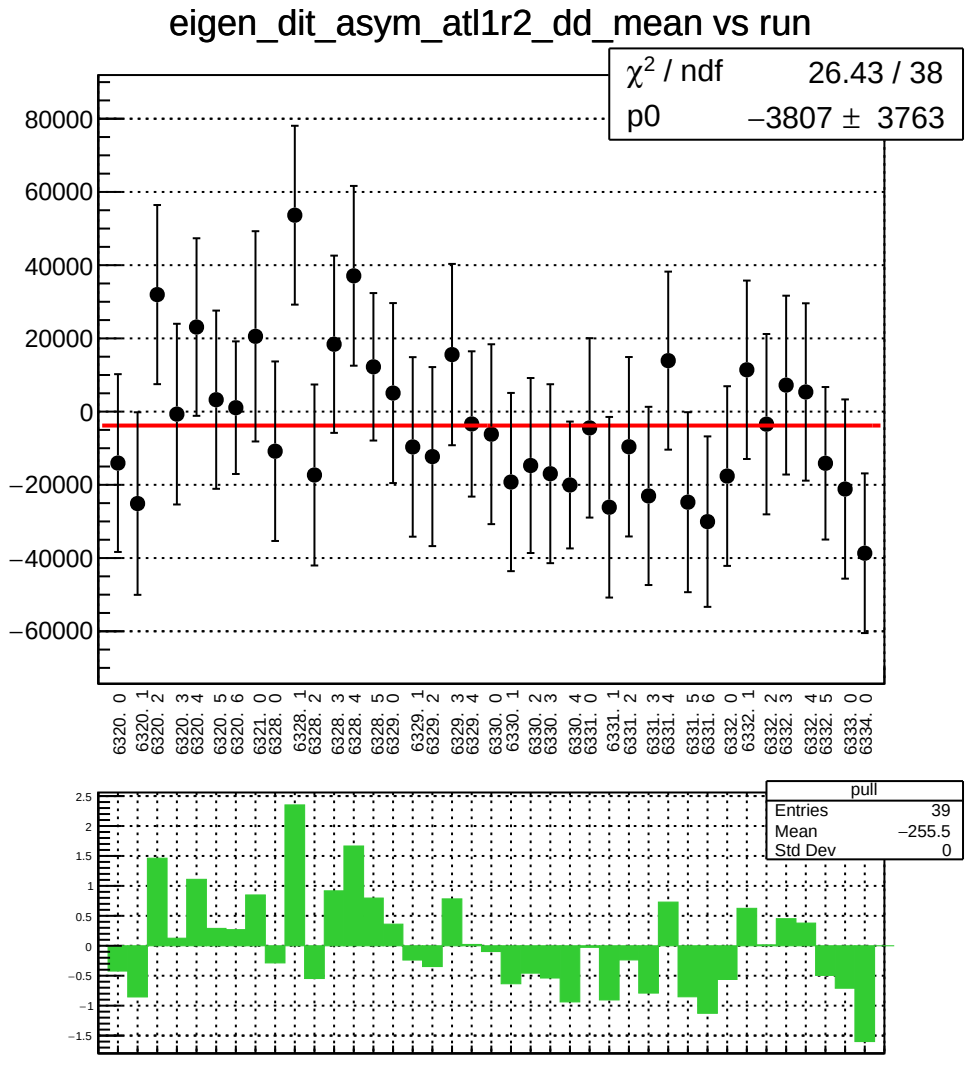

pull1D
Entries 39
Mean 0.01402
Std Dev 0.8231
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

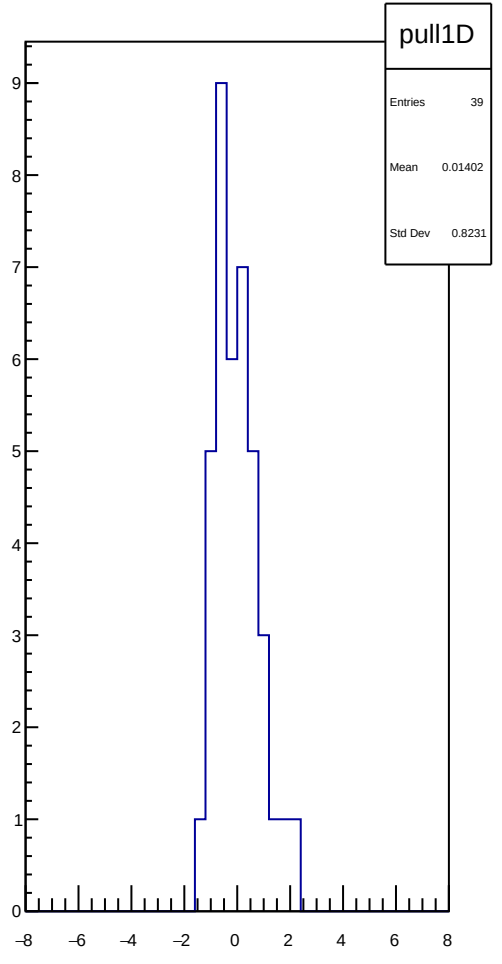

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 48.46 / 38
p0 2316 ± 2.661
2380
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

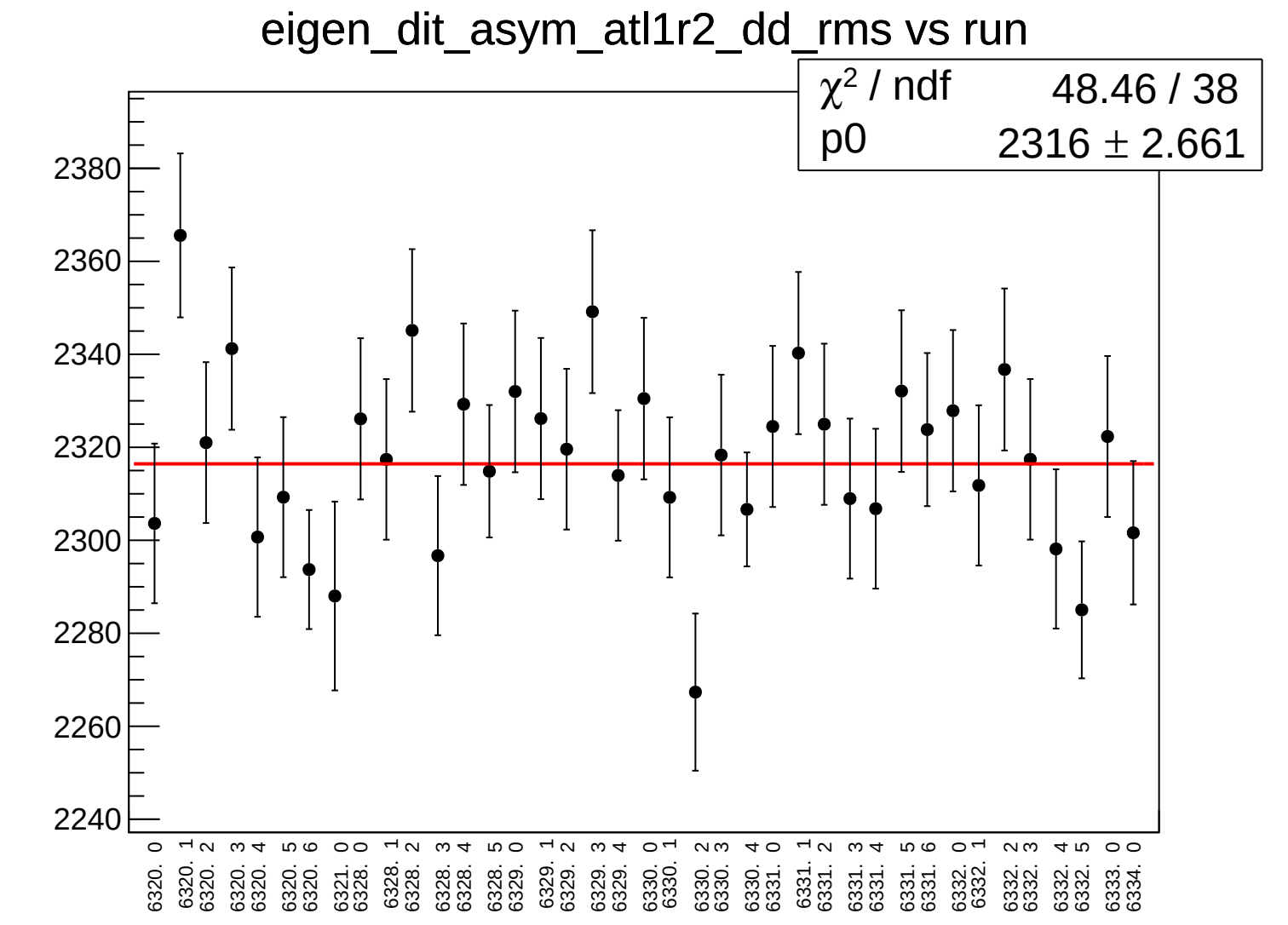

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −8850 ± 1.17e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

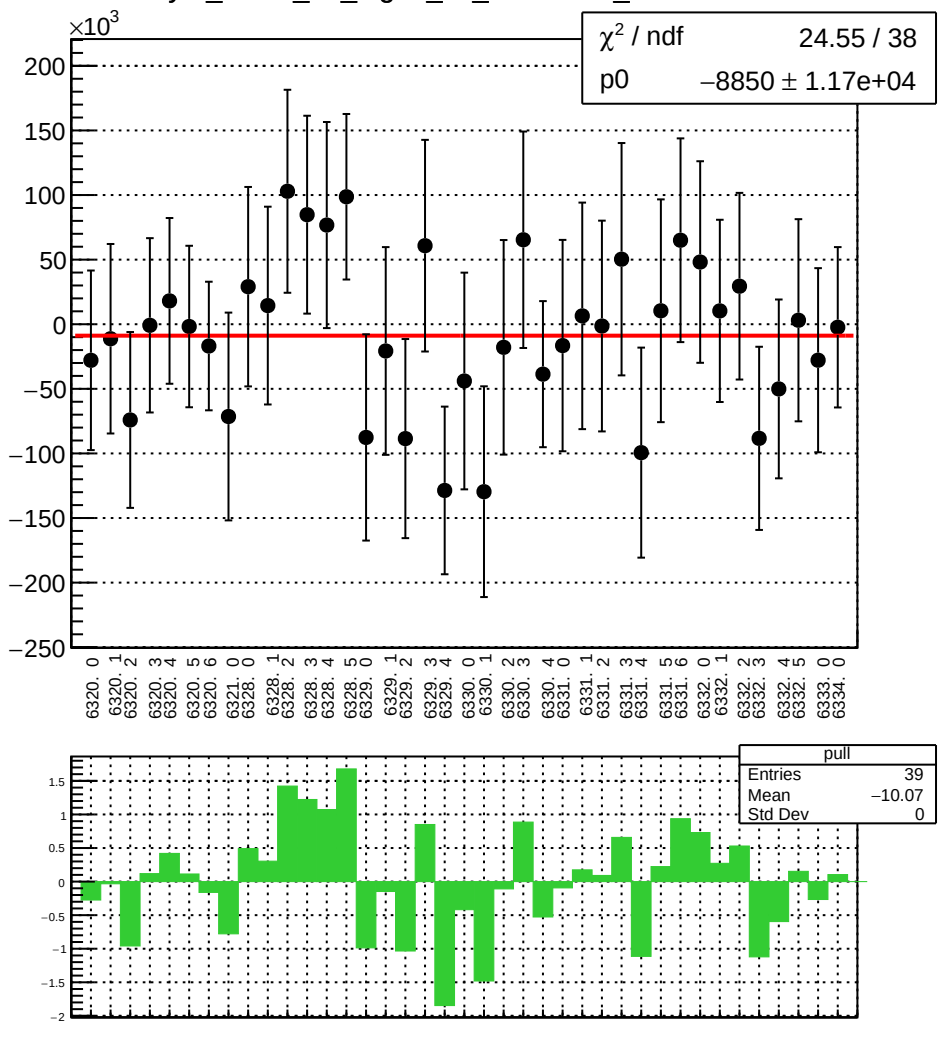

pull1D
Entries 39
Mean 0.01308
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

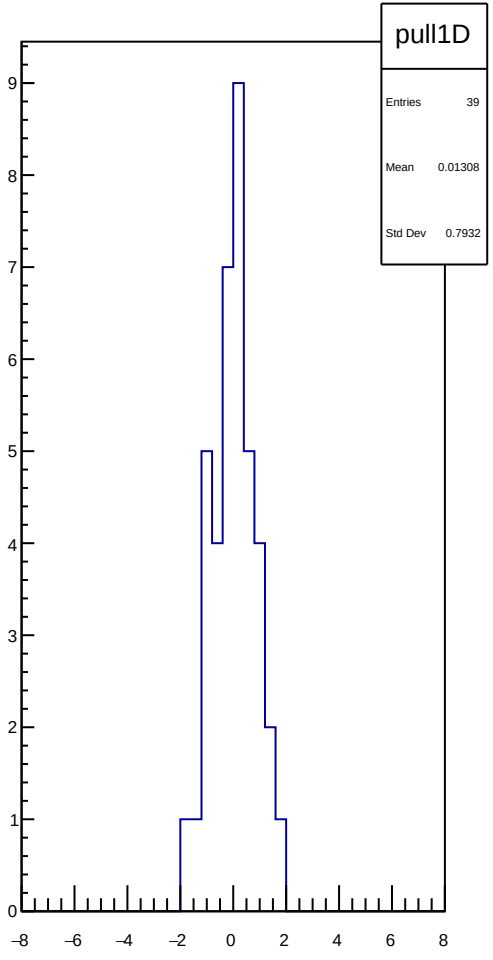

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6682 / 38
p0 7173 ± 8.275
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

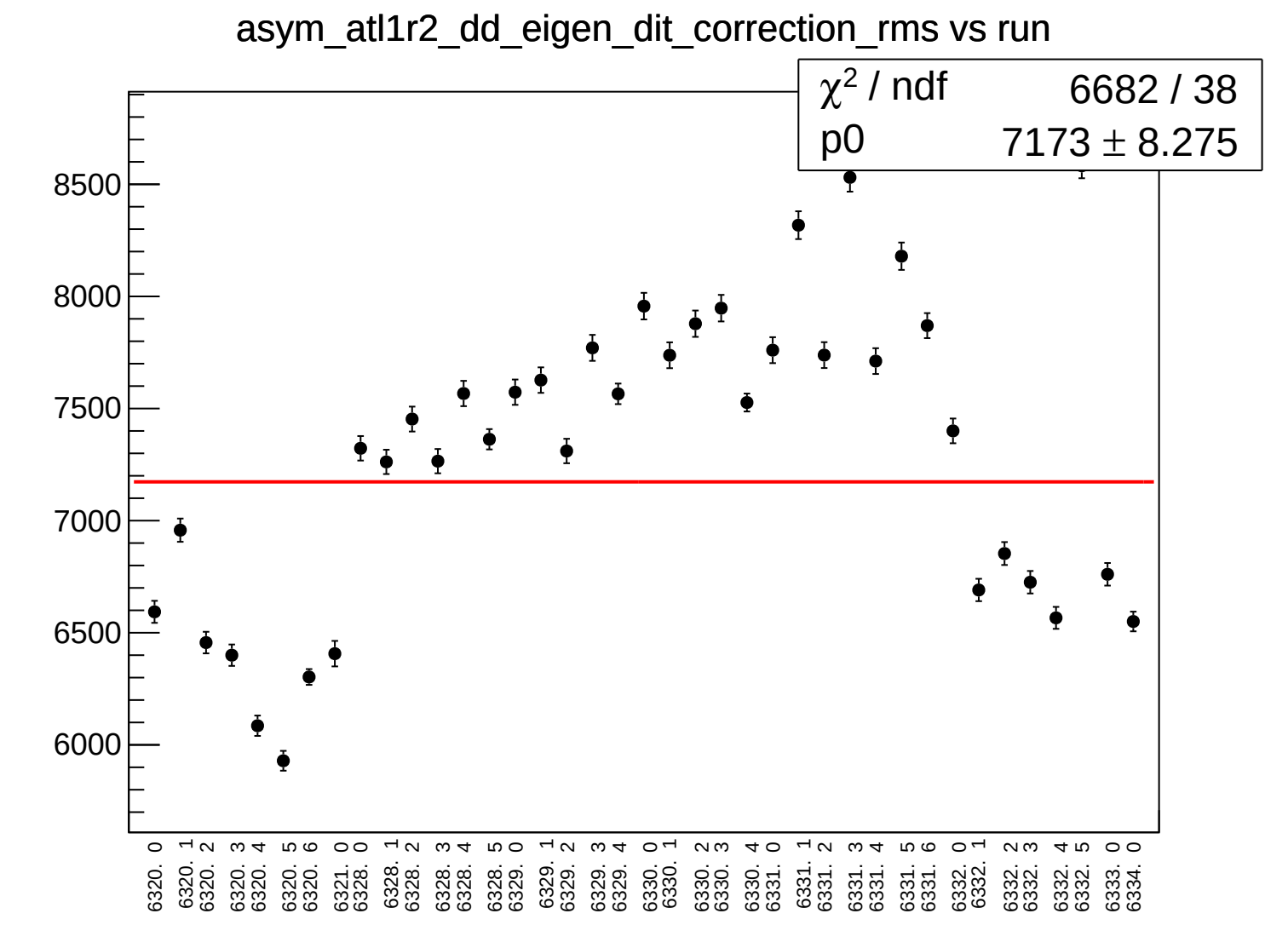

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 26.43 / 38
p0 −3807 ± 3763
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −255.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

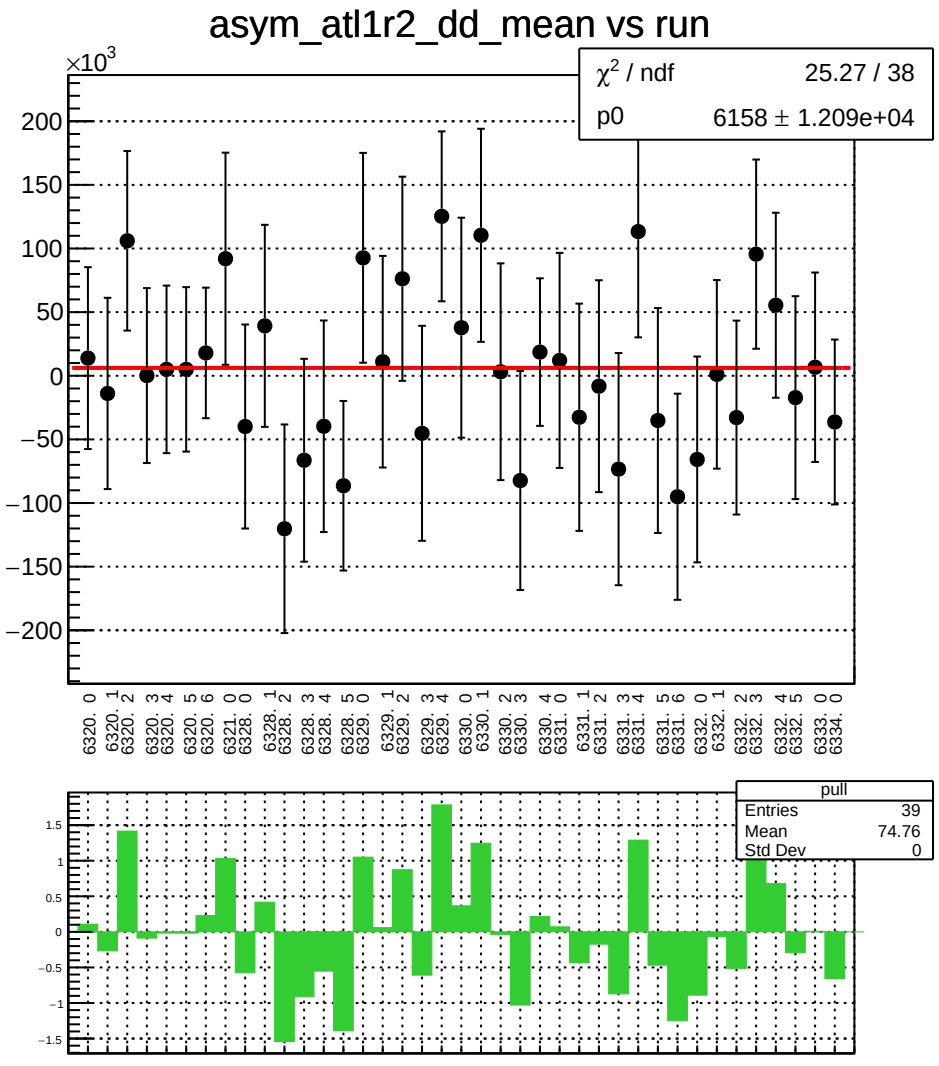

pull1D
Entries 39
Mean 0.01402
Std Dev 0.8231
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

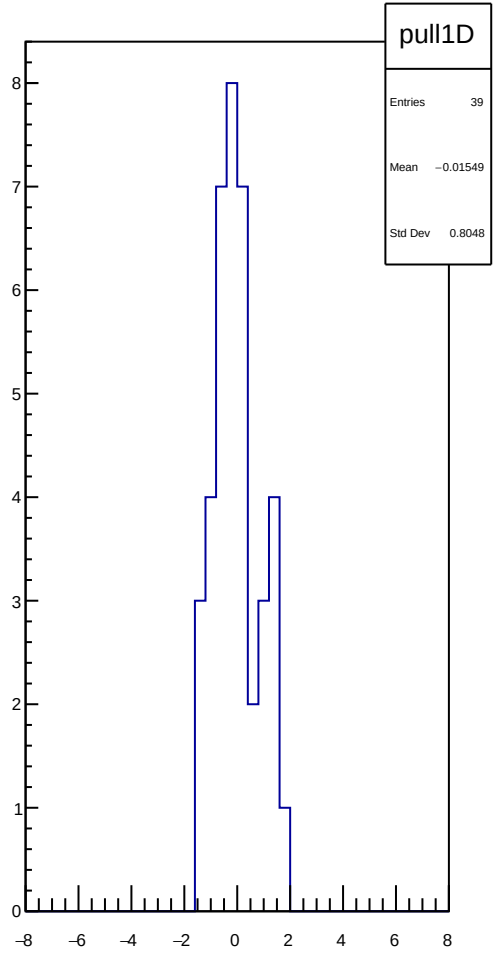

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 48.46 / 38
p0 2316 ± 2.661
2380
2360
2340
2320
2300
2280
2260
2240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

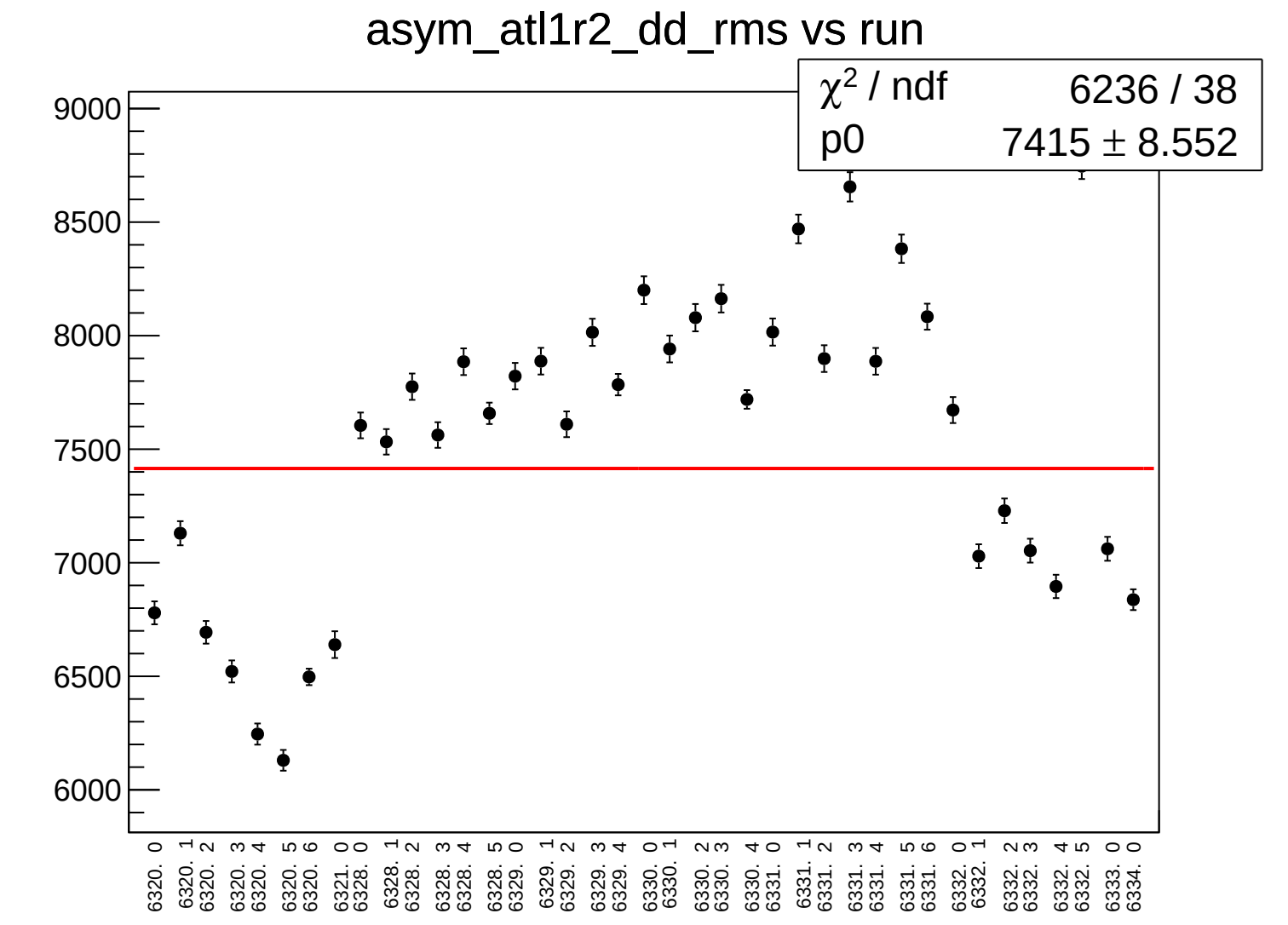

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −8850 ± 1.17e+04
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

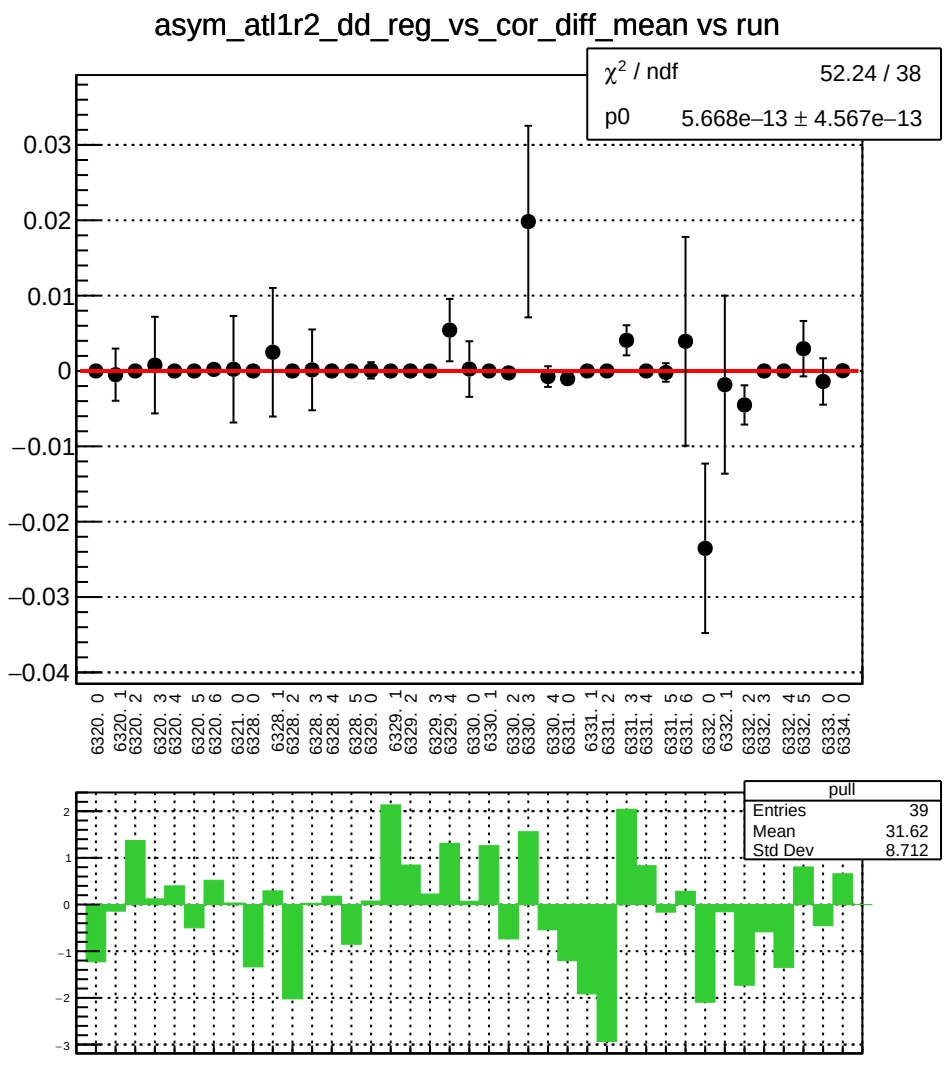

pull1D
Entries 39
Mean 0.01308
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

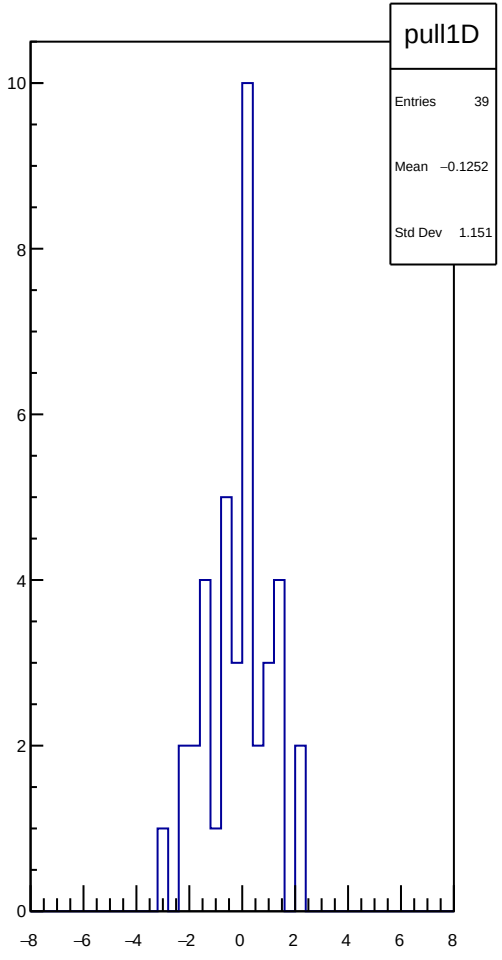

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6682 / 38
p0 7173 ± 8.275
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

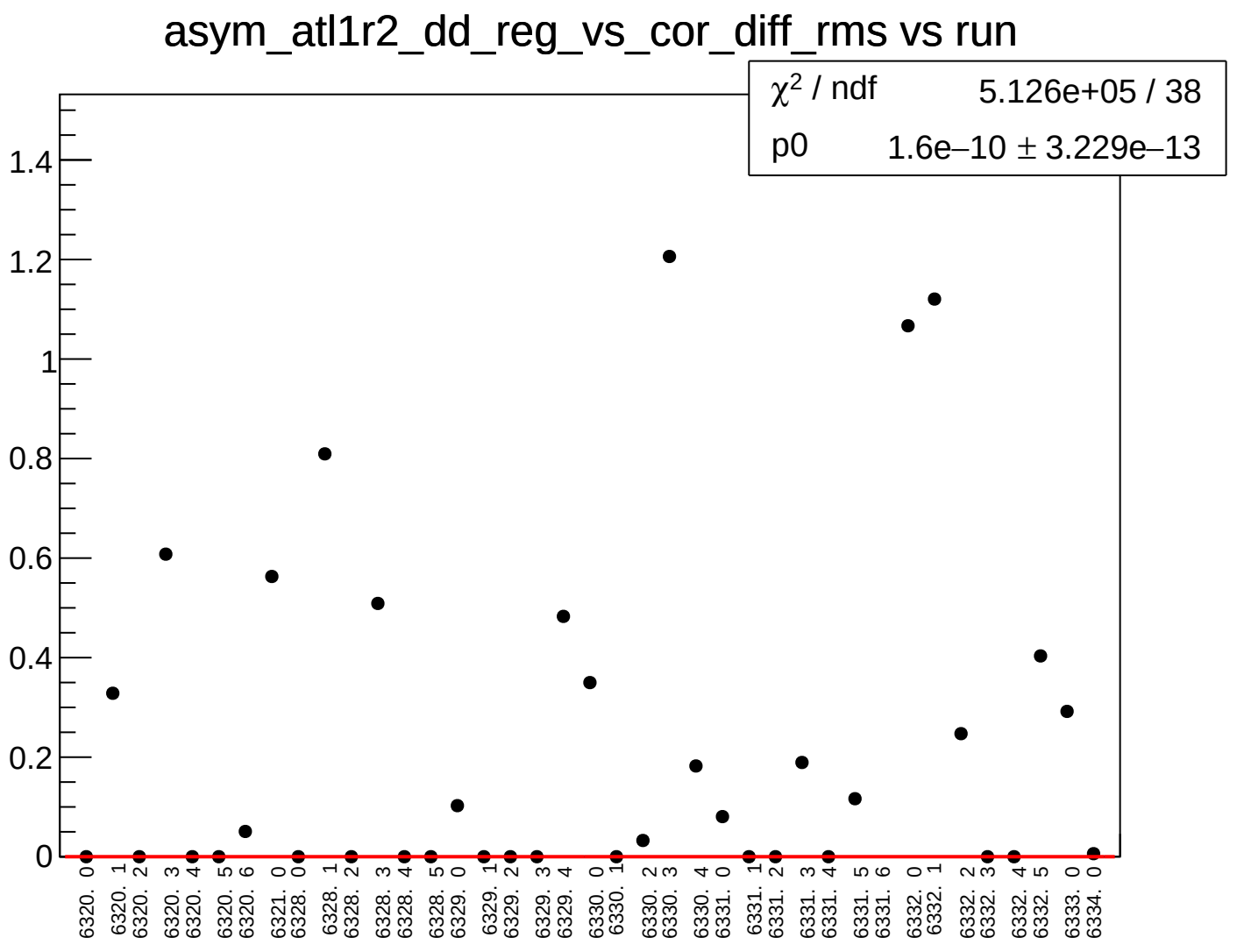

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 25.27 / 38
p0 6158 ± 1.209e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

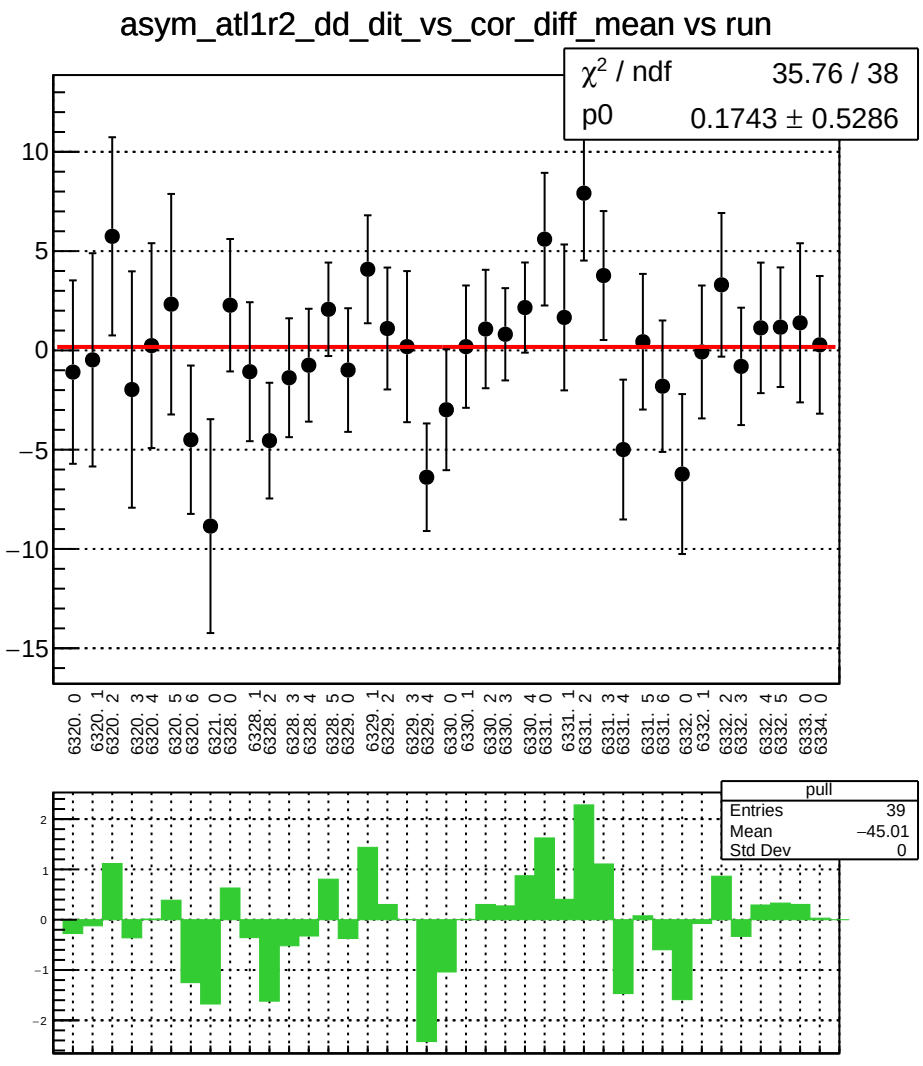

pull1D
Entries 39
Mean −0.01549
Std Dev 0.8048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

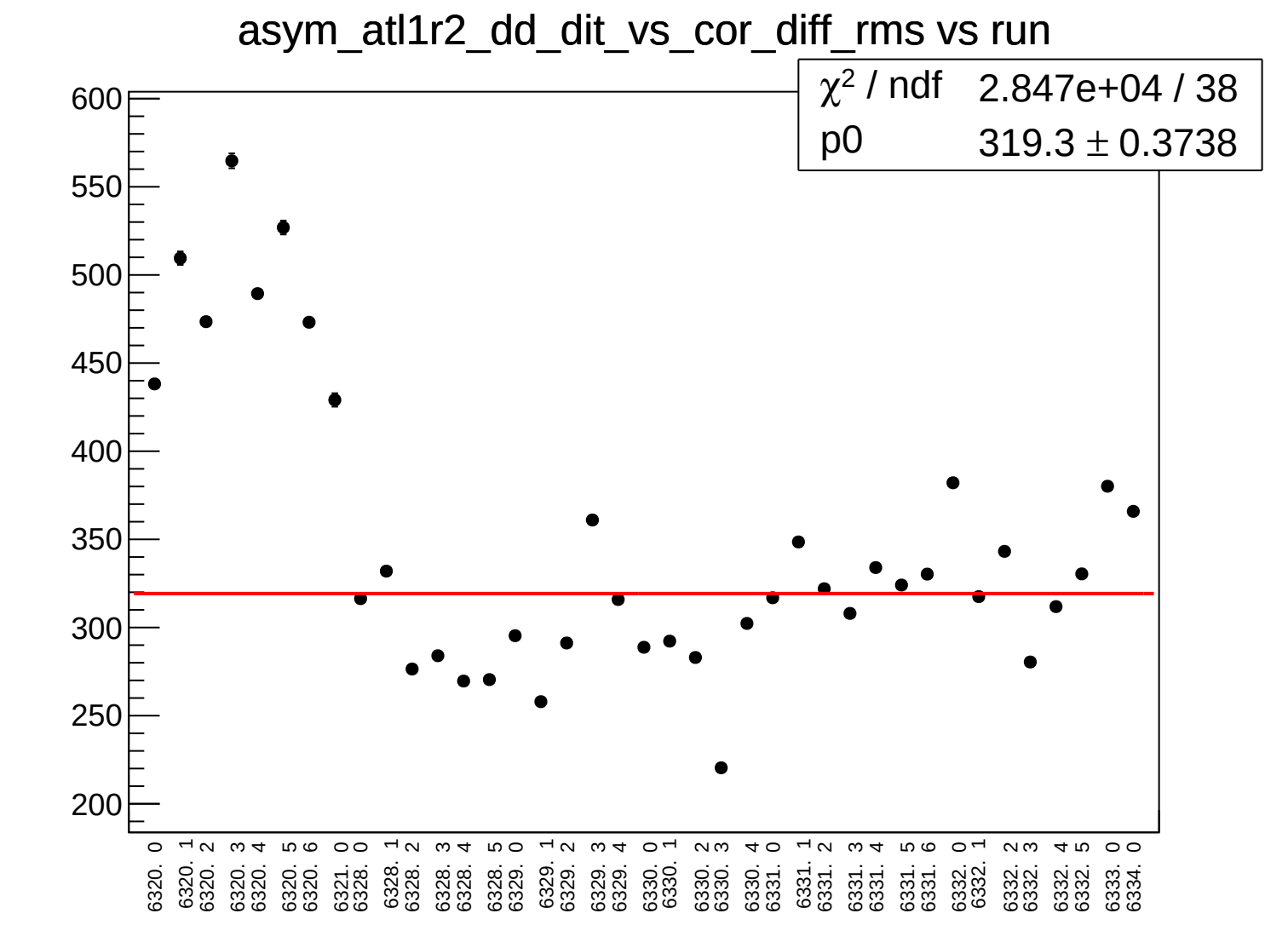

asym_atl1r2_dd_rms vs run
χ² / ndf 6236 / 38
p0 7415 ± 8.552
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

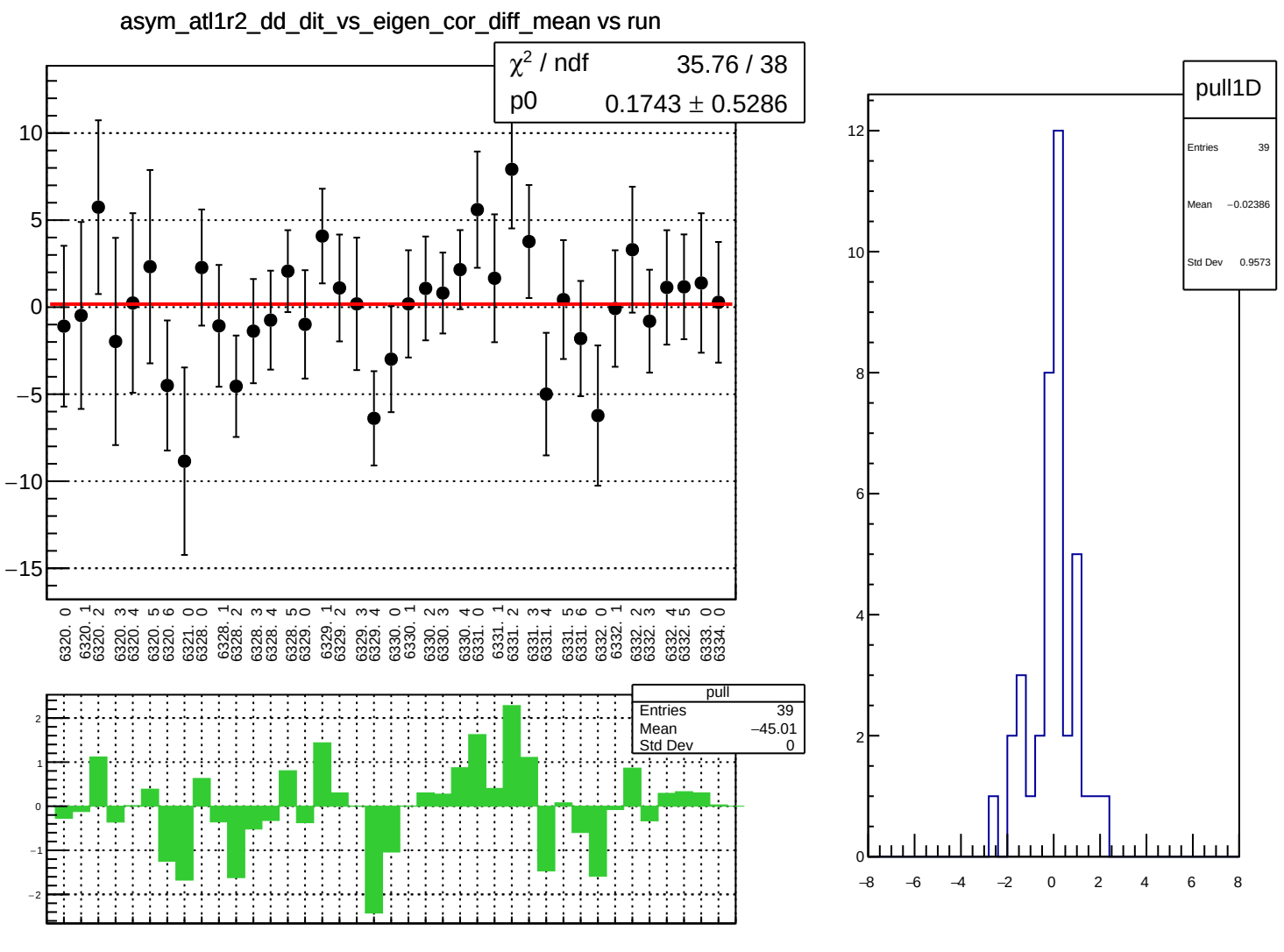

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.24 / 38
p0 5.668e−13 ± 4.567e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.62
Std Dev 8.712
2
1
0
−1
−2
−3

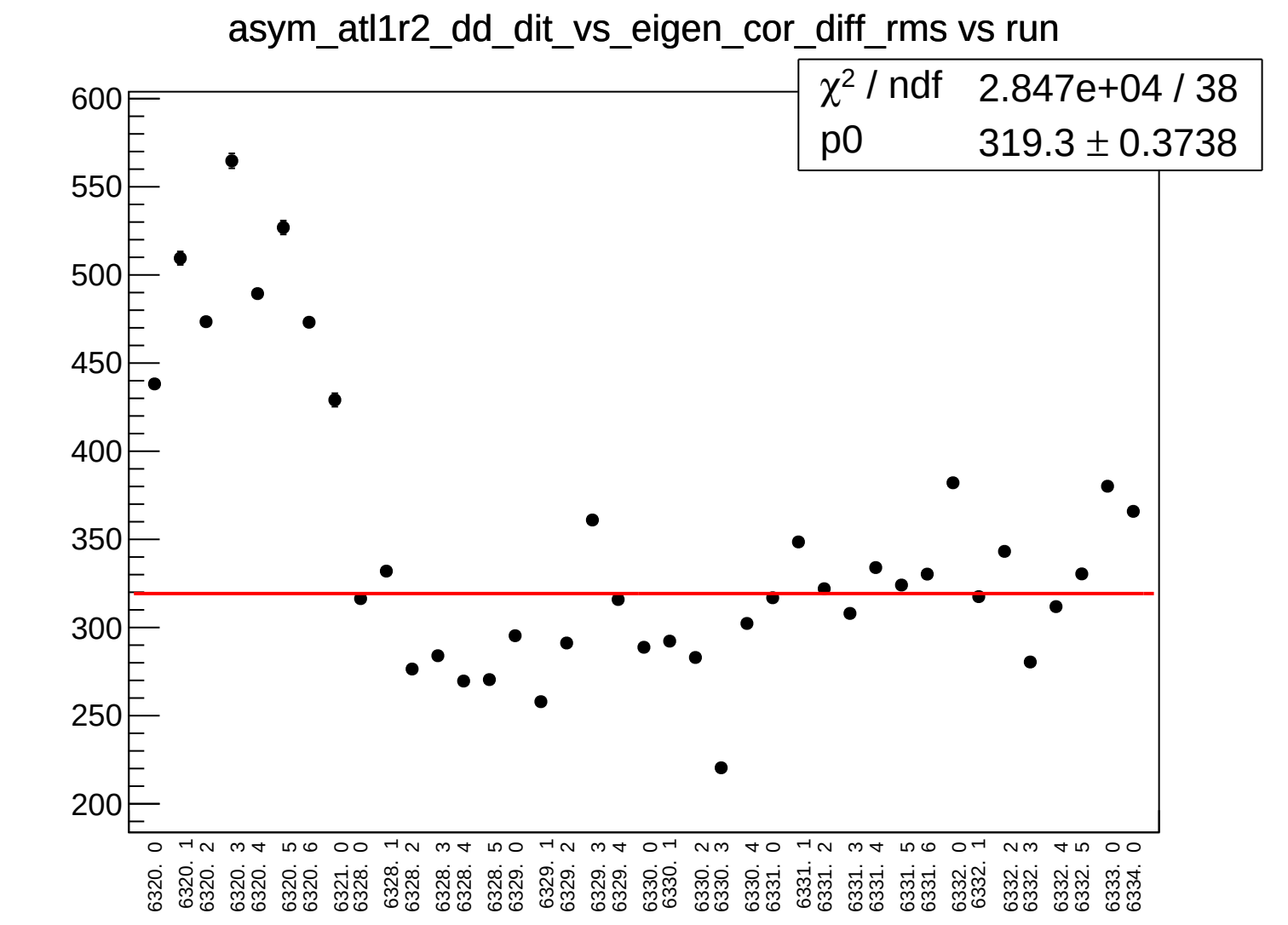

pull1D
Entries 39
Mean −0.1252
Std Dev 1.151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

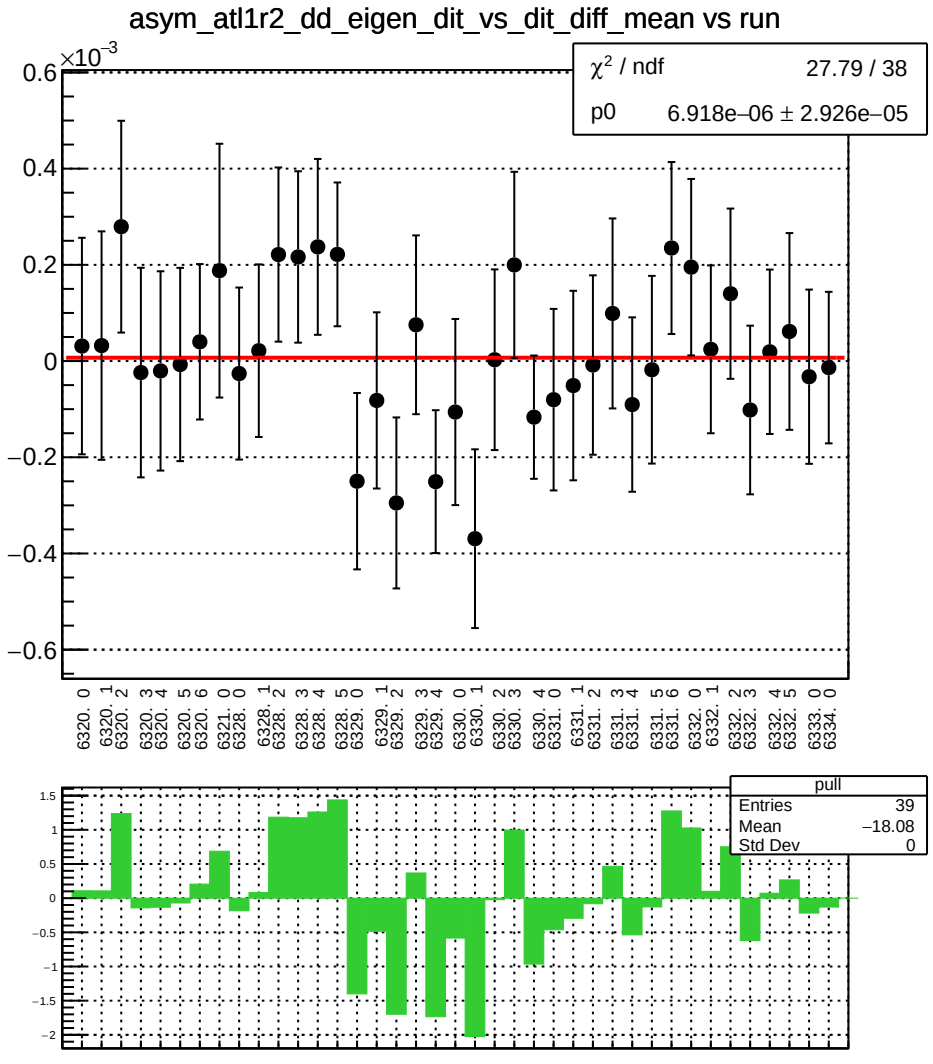

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.126e+05 / 38
p0 1.6e−10 ± 3.229e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

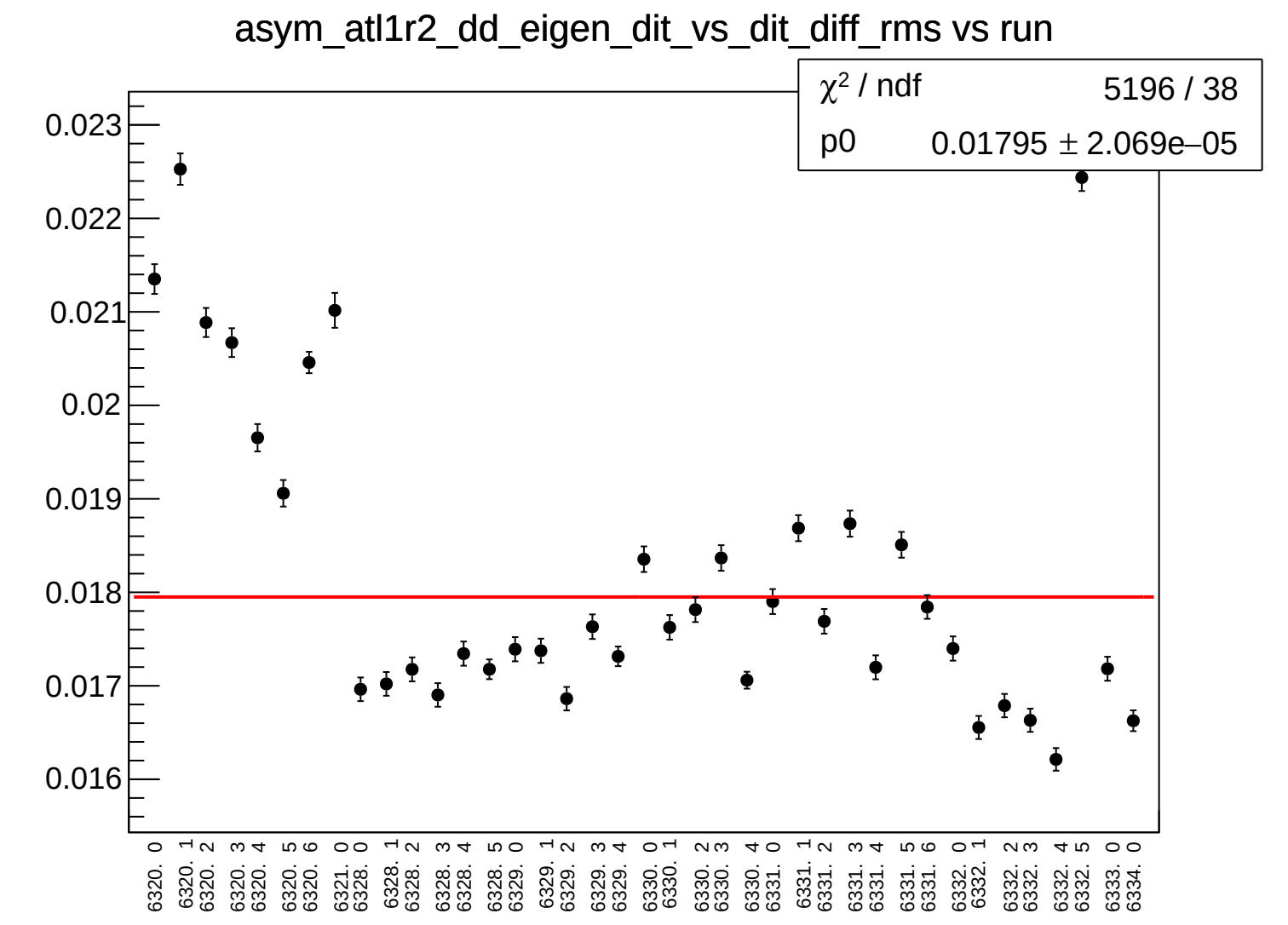

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.76 / 38
p0 0.1743 ± 0.5286
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02386
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

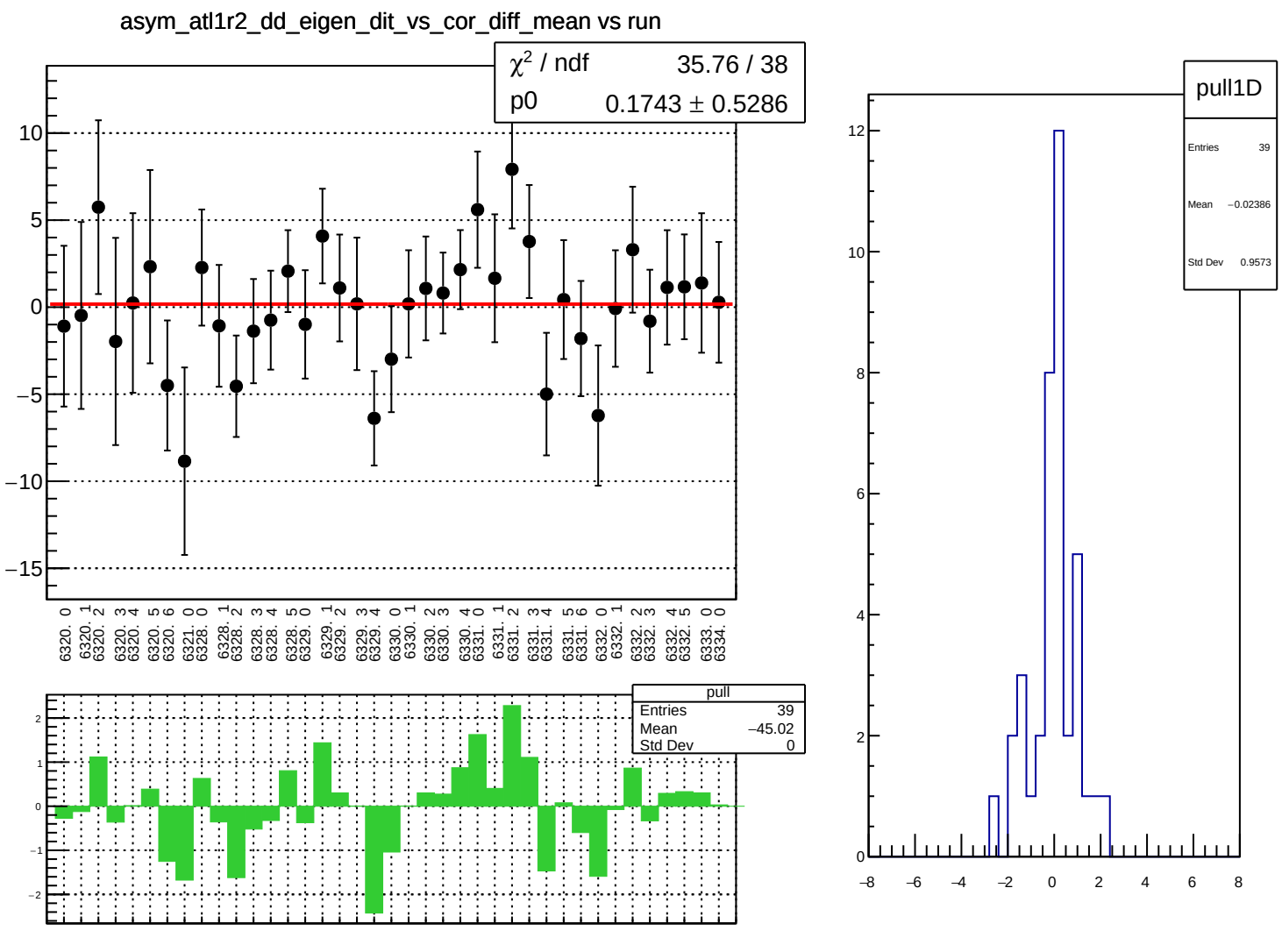

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.847e+04 / 38
p0 319.3 ± 0.3738
600
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

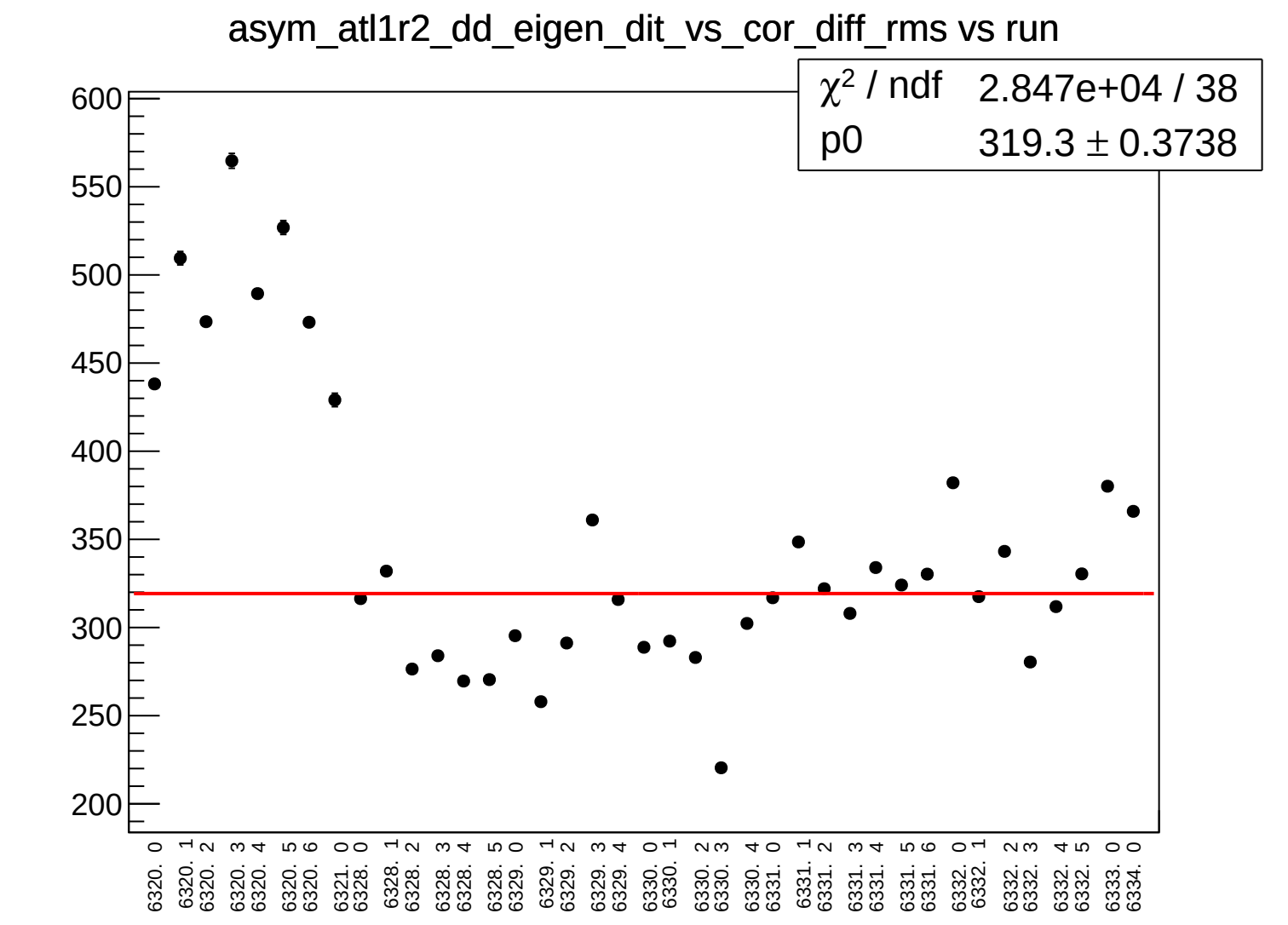

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.76 / 38
p0 0.1743 ± 0.5286
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02386
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

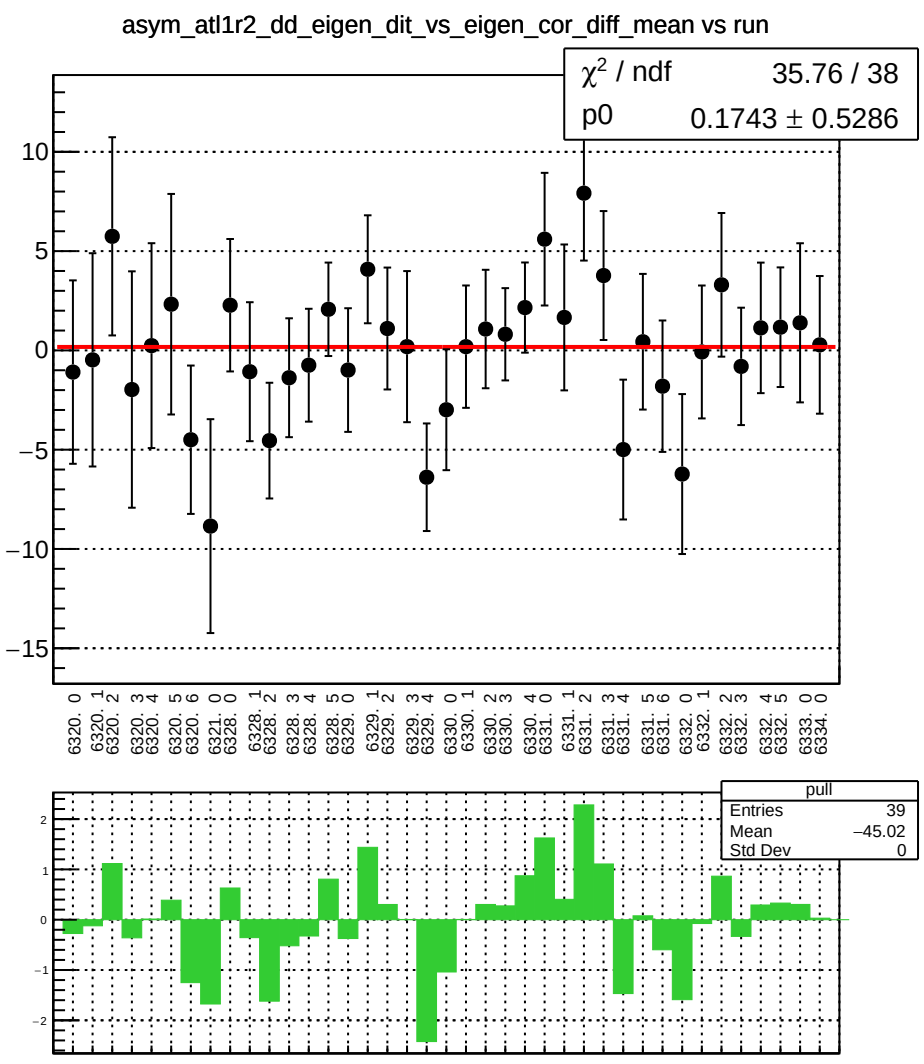

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.847e+04 / 38
p0 319.3 ± 0.3738
600
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

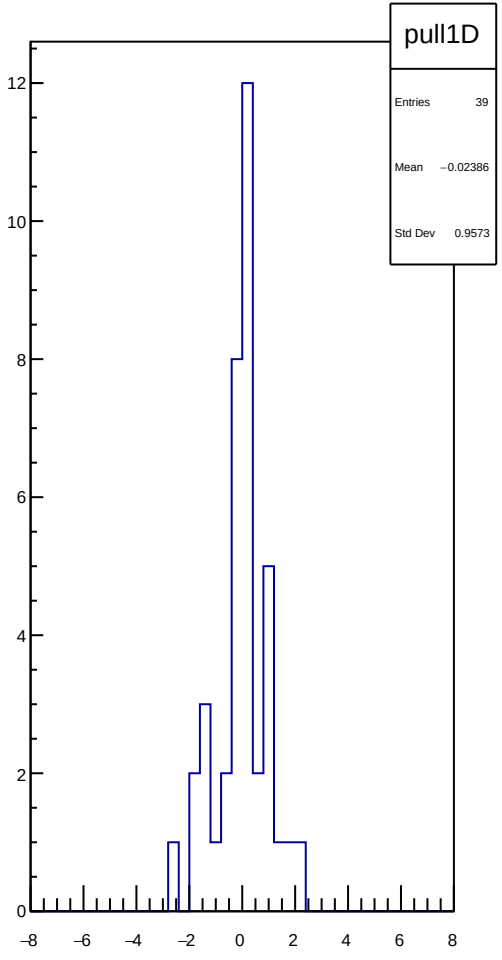

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.79 / 38
p0 6.918e−06 ± 2.926e−05
pull
Entries 39
Mean −18.08
Std Dev 0
pull1D
Entries 39
Mean 0.02301
Std Dev 0.8438

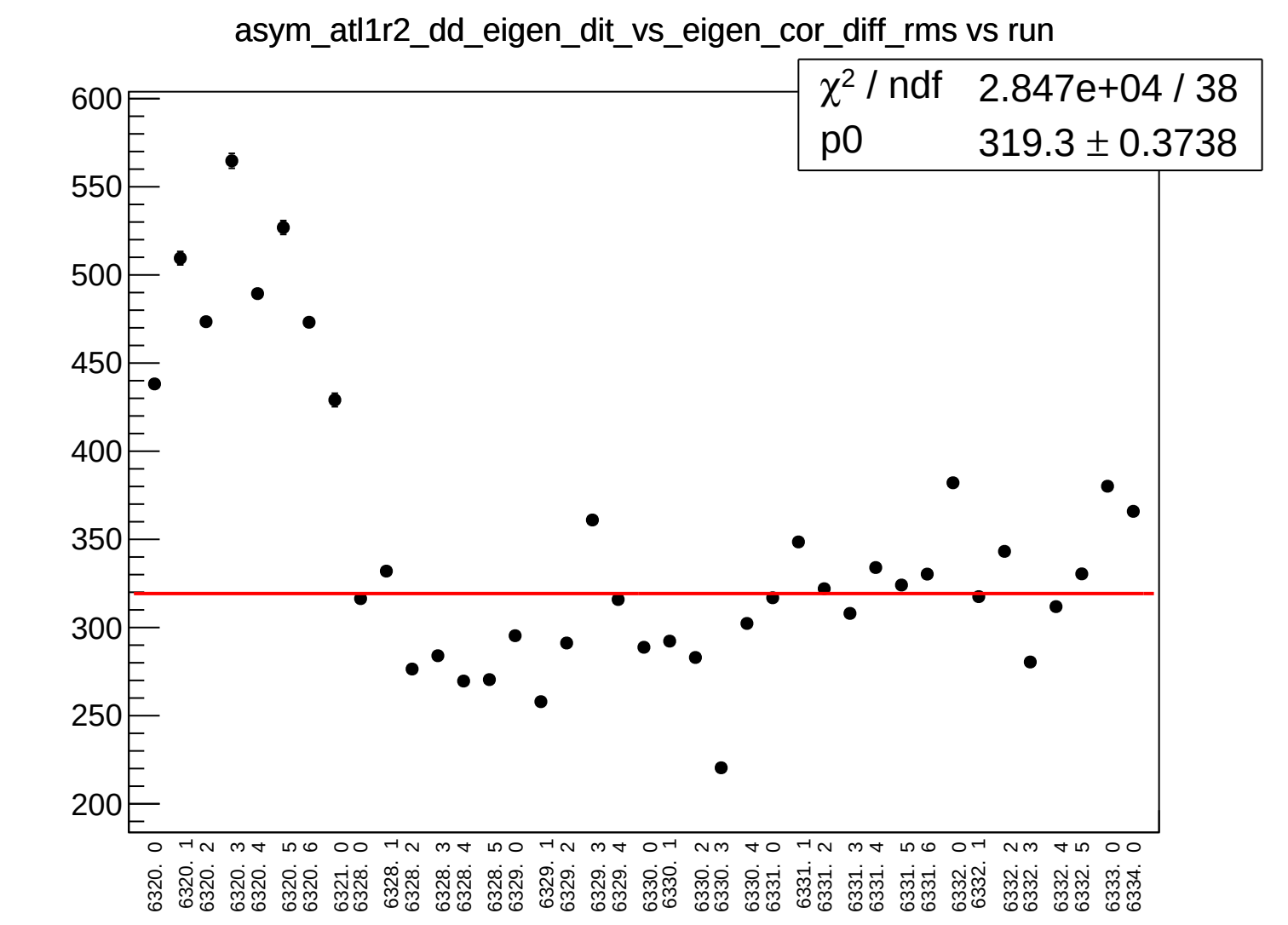

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5196 / 38
p0 0.01795 ± 2.069e–05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

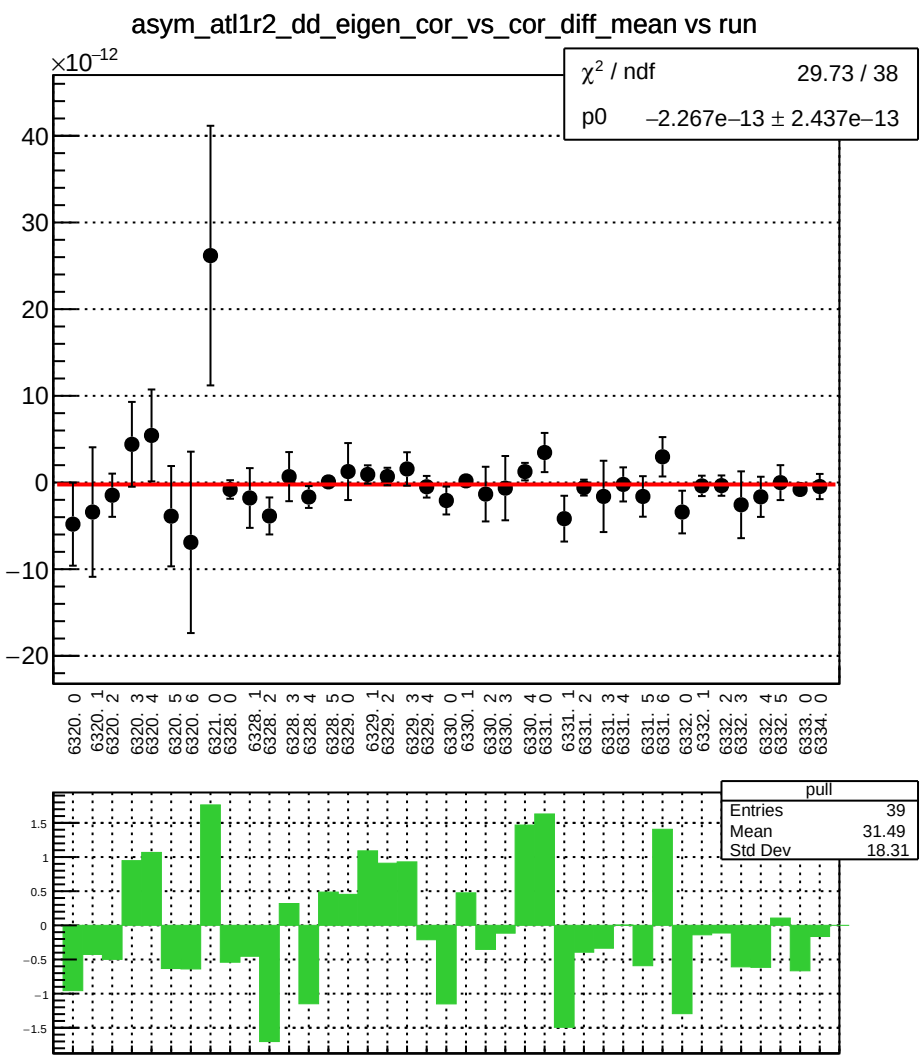

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.76 / 38
p0 0.1743 ± 0.5286
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02386
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

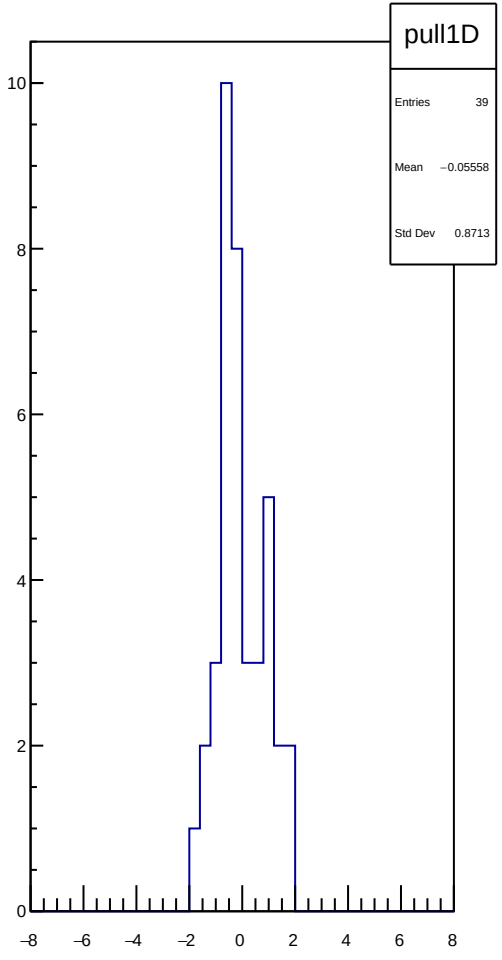

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.847e+04 / 38
p0 319.3 ± 0.3738
600
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

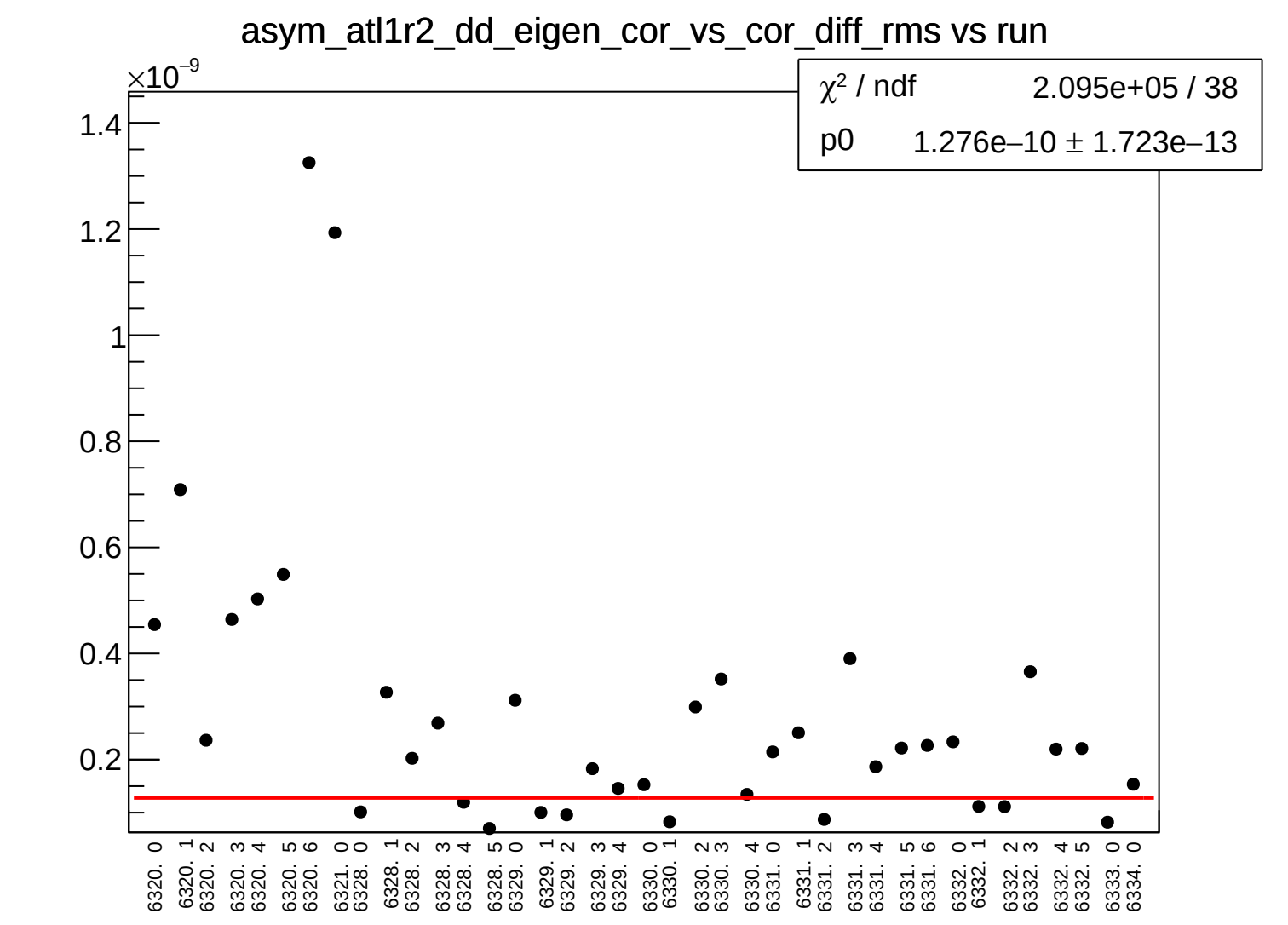

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.76 / 38
p0 0.1743 ± 0.5286
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.02
Std Dev 0
2
1
0
−1
−2

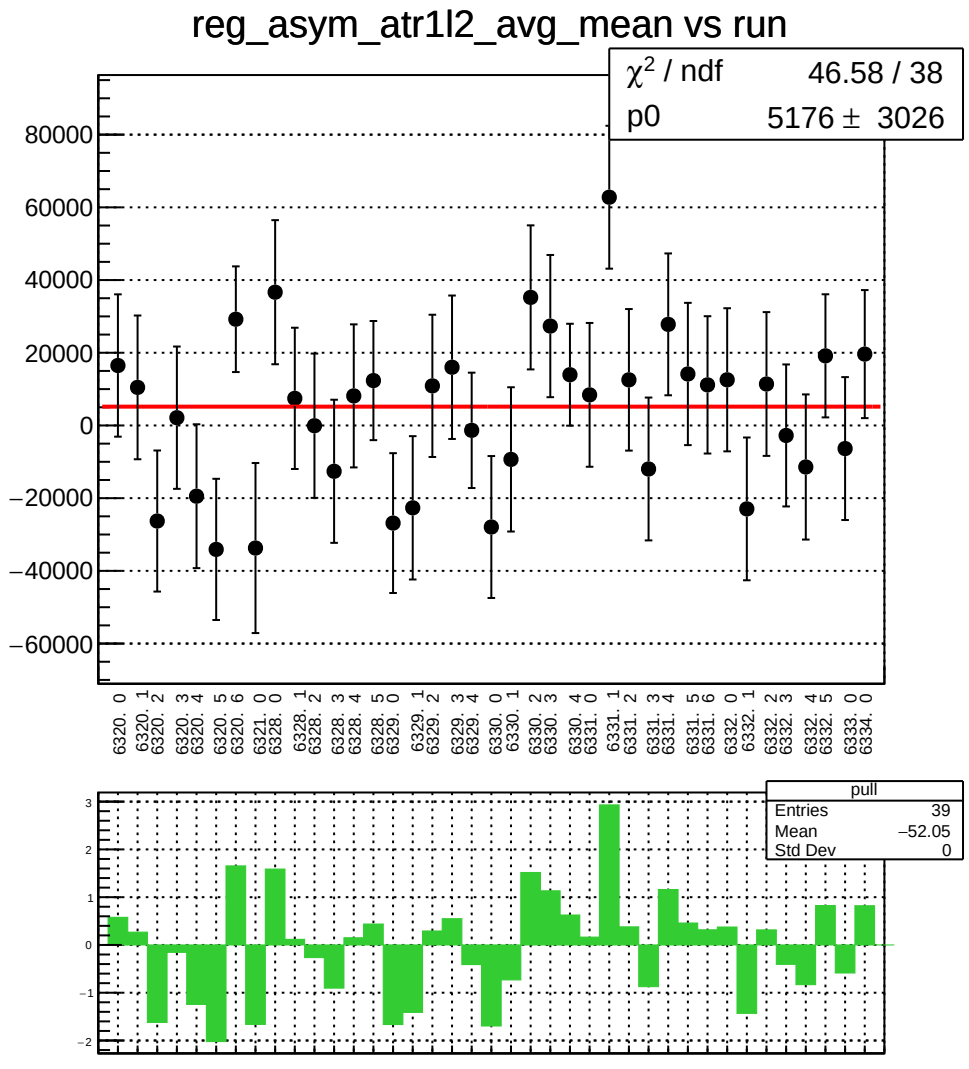

pull1D
Entries 39
Mean −0.02386
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

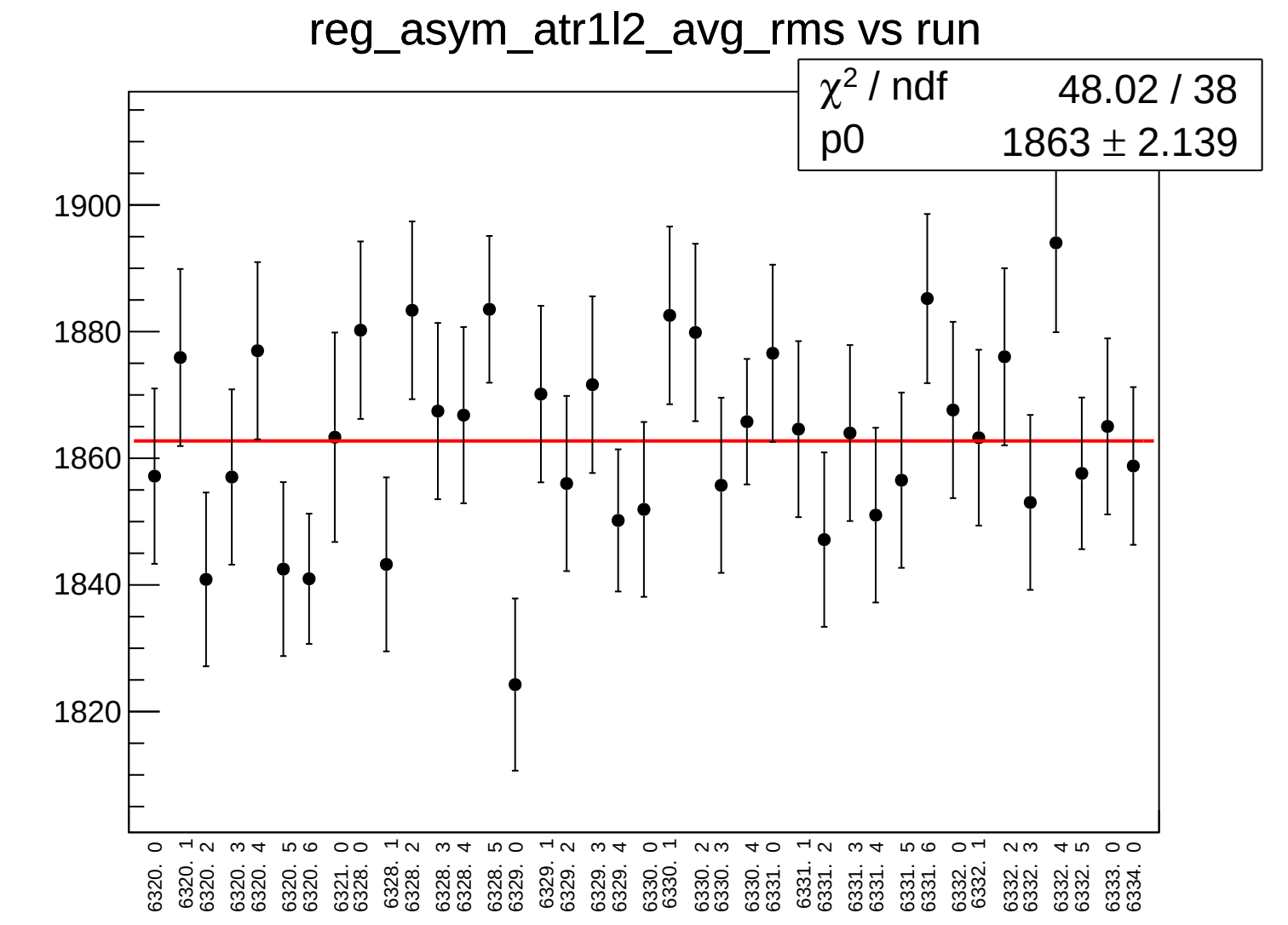

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.847e+04 / 38
p0 319.3 ± 0.3738
600
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

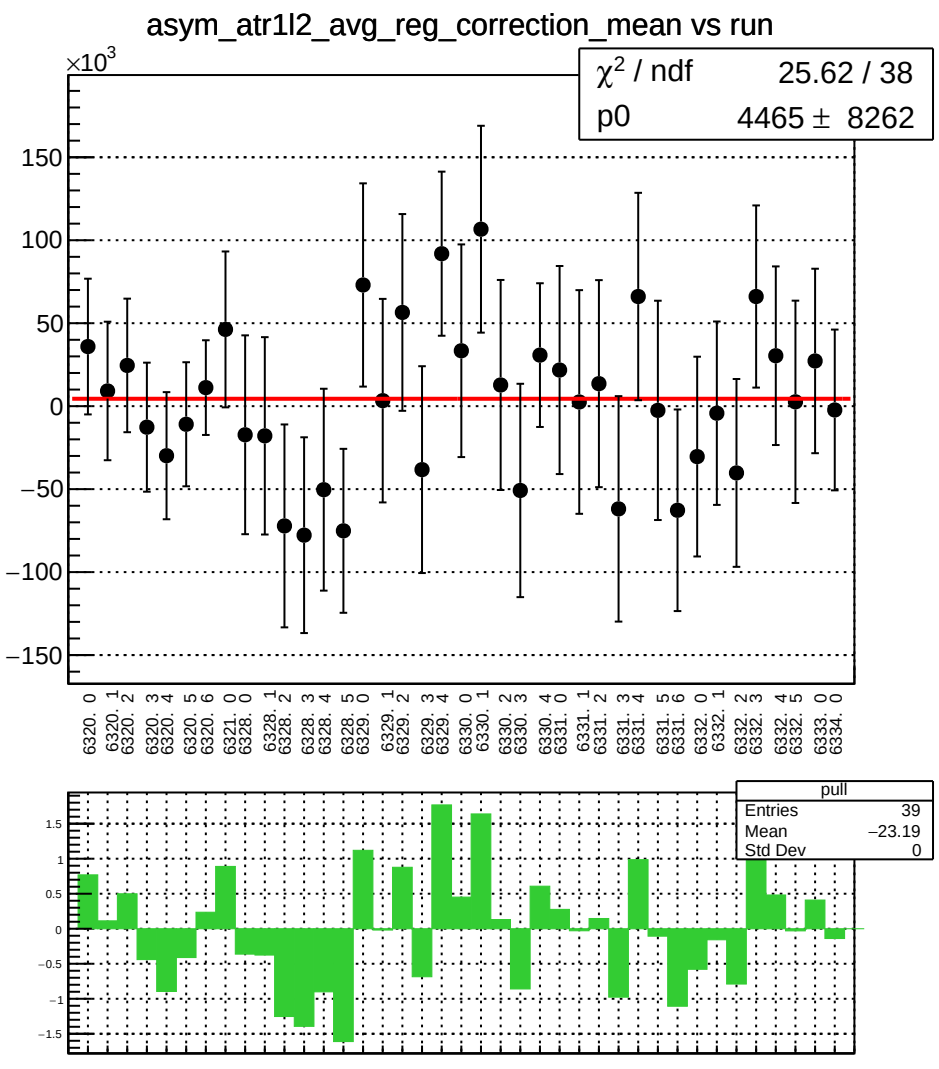

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 29.73 / 38
p0 −2.267e−13 ± 2.437e−13
40
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.49
Std Dev 18.31
1.5
1
0.5
0
−0.5
−1
−1.5

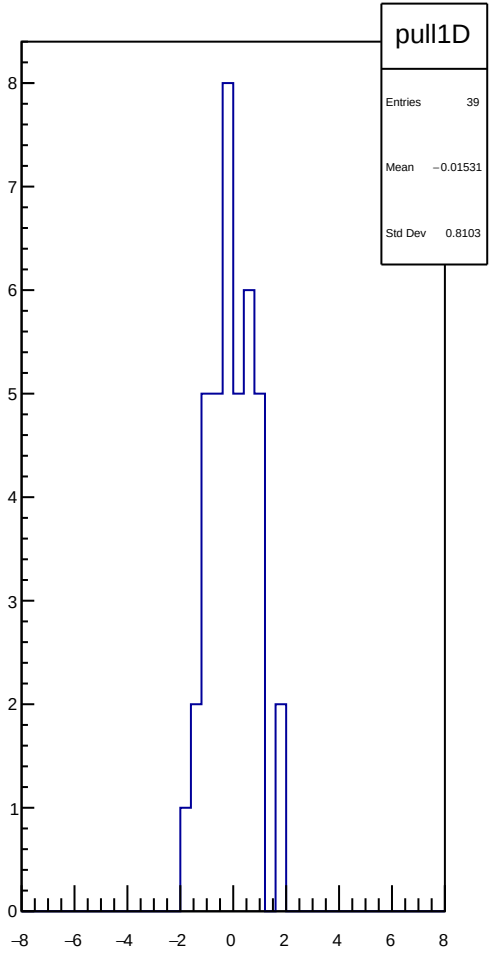

pull1D
Entries 39
Mean −0.05558
Std Dev 0.8713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

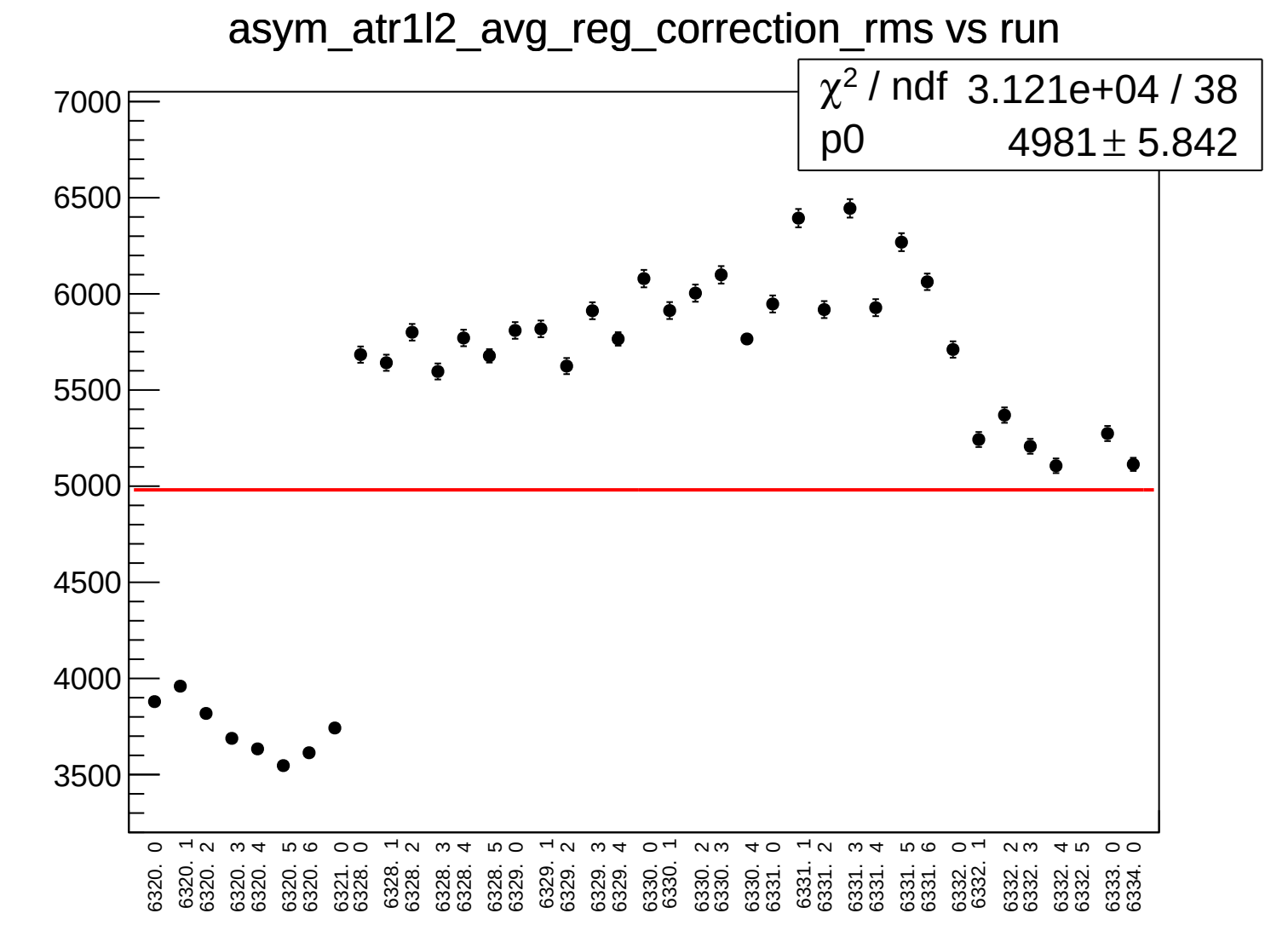

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.095e+05 / 38
p0 1.276e−10 ± 1.723e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

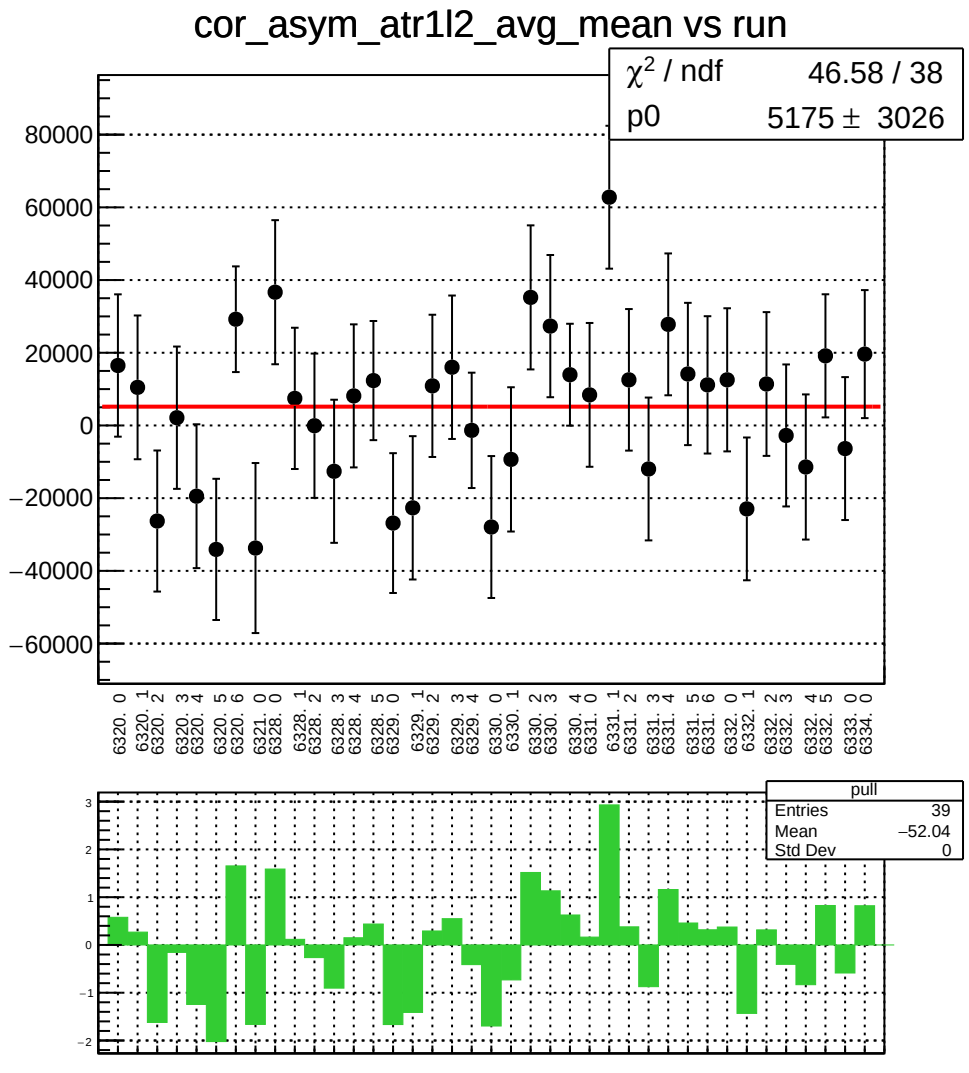

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 46.58 / 38
p0 5176 ± 3026
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03231
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

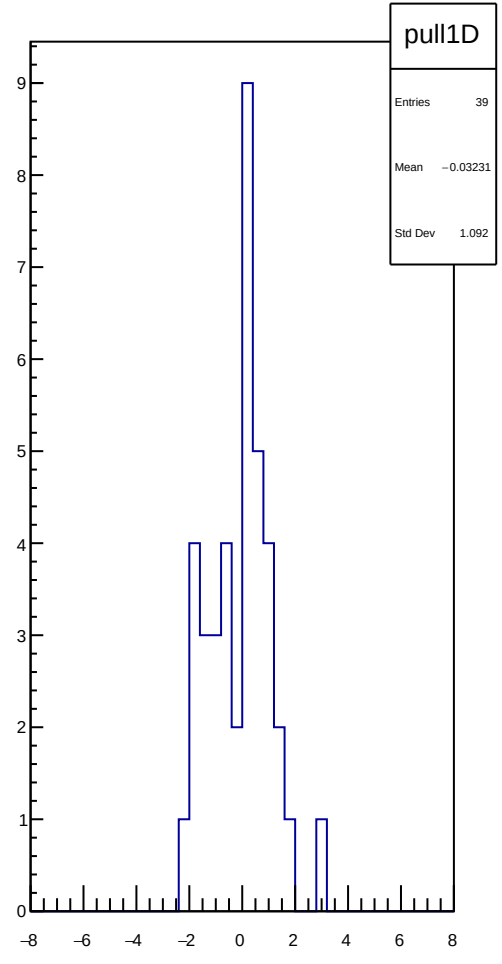

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 48.02 / 38
p0 1863 ± 2.139
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

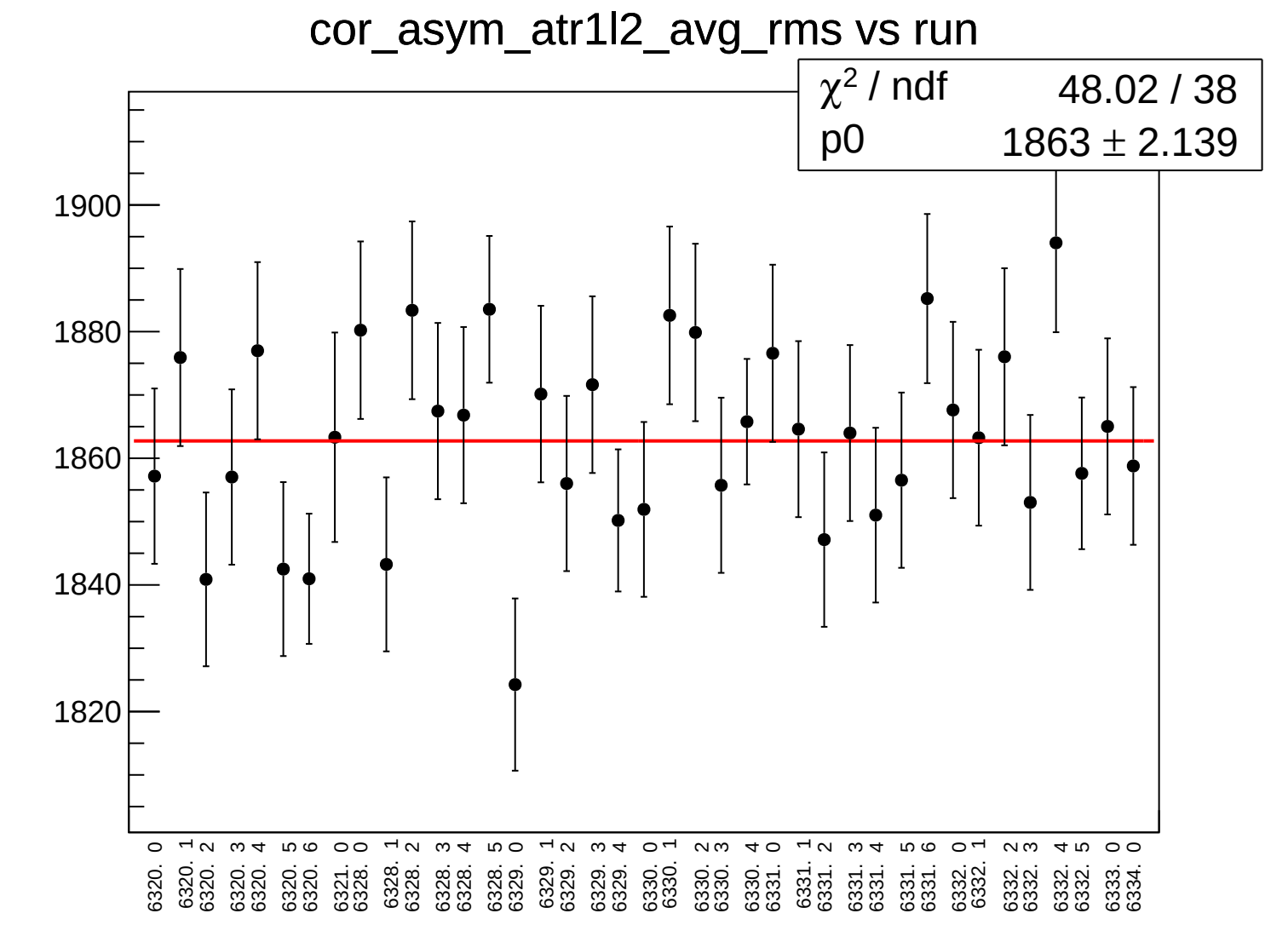

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 25.62 / 38
p0 4465 ± 8262
×10³
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

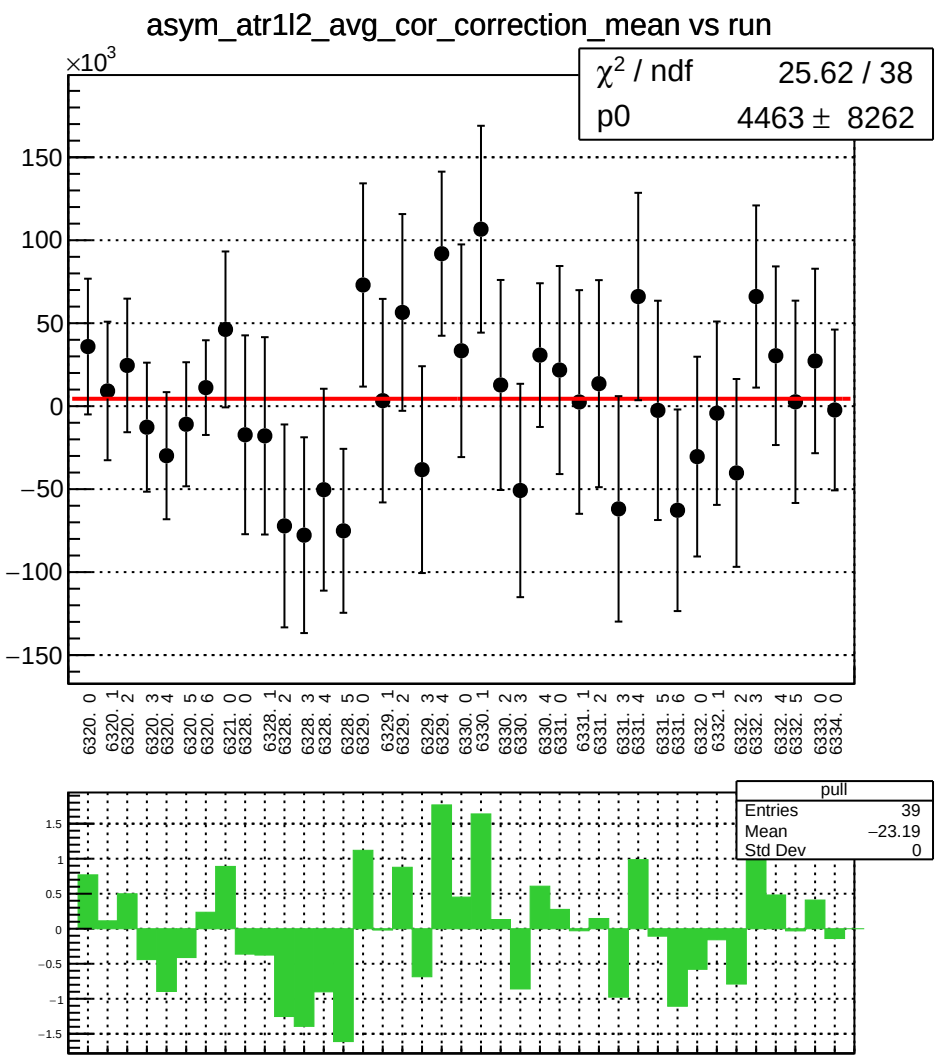

pull1D
Entries 39
Mean −0.01531
Std Dev 0.8103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

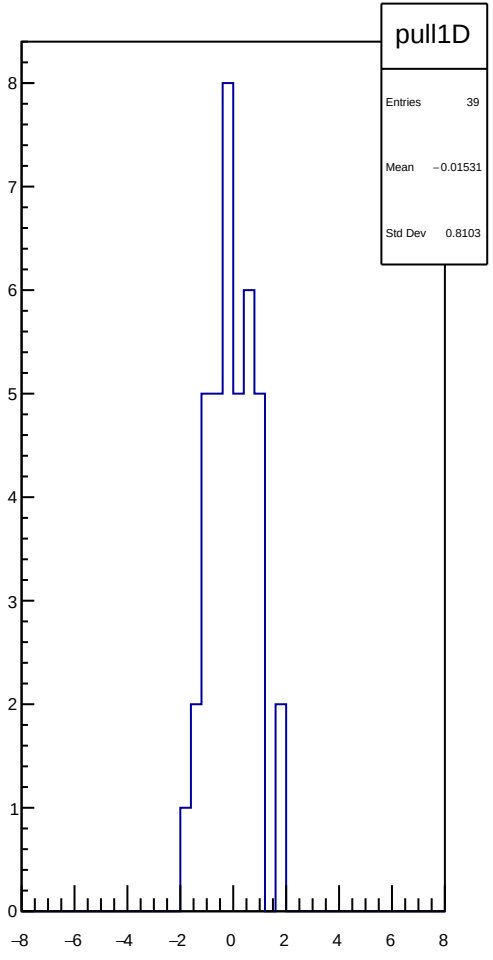

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3.121e+04 / 38
p0 4981 ± 5.842
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 46.58 / 38
p0 5175 ± 3026
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.04
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.03231
Std Dev 1.092
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 48.02 / 38
p0 1863 ± 2.139
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 25.62 / 38
p0 4463 ± 8262
×10³
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01531
Std Dev 0.8103
8
7
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4
3
2
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−8
−6
−4
−2
0
2
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6
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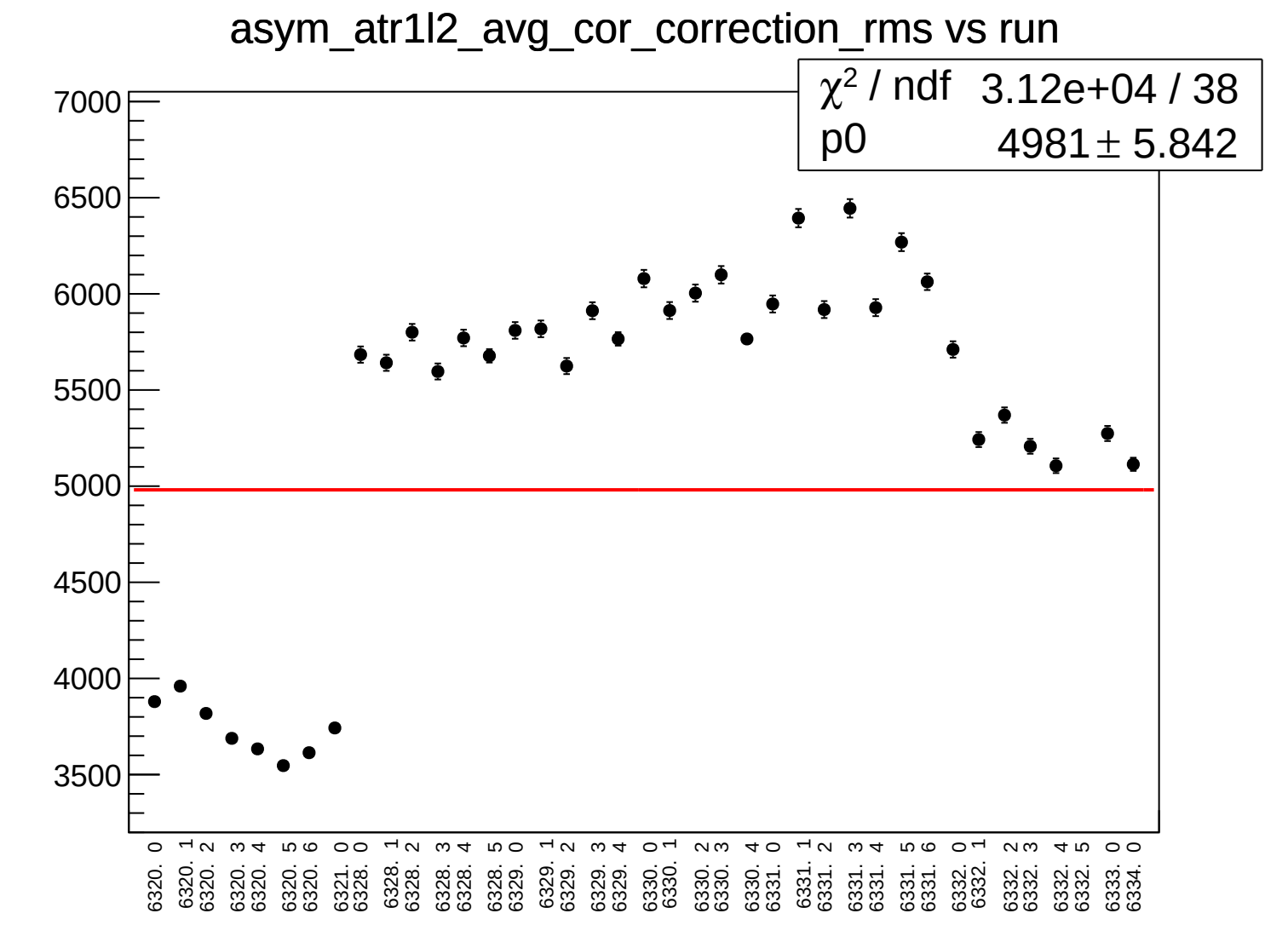
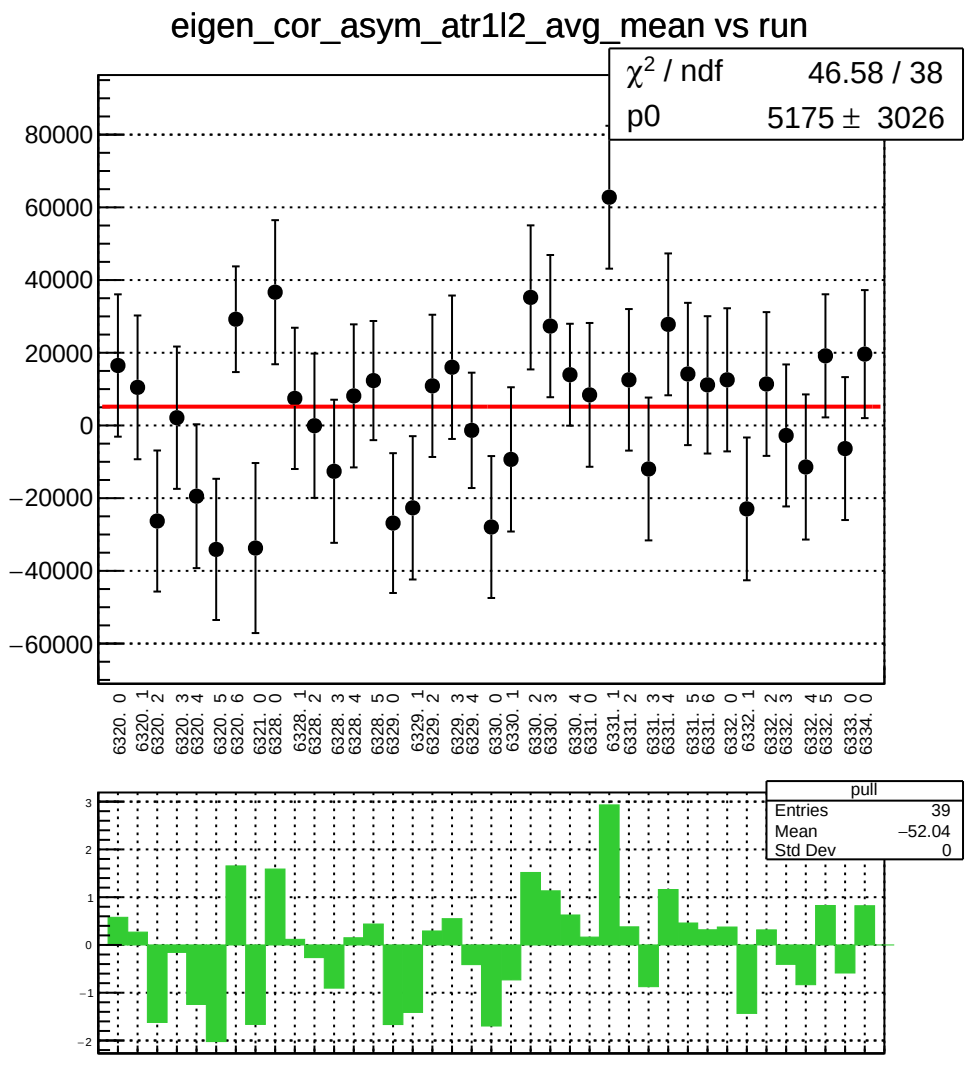
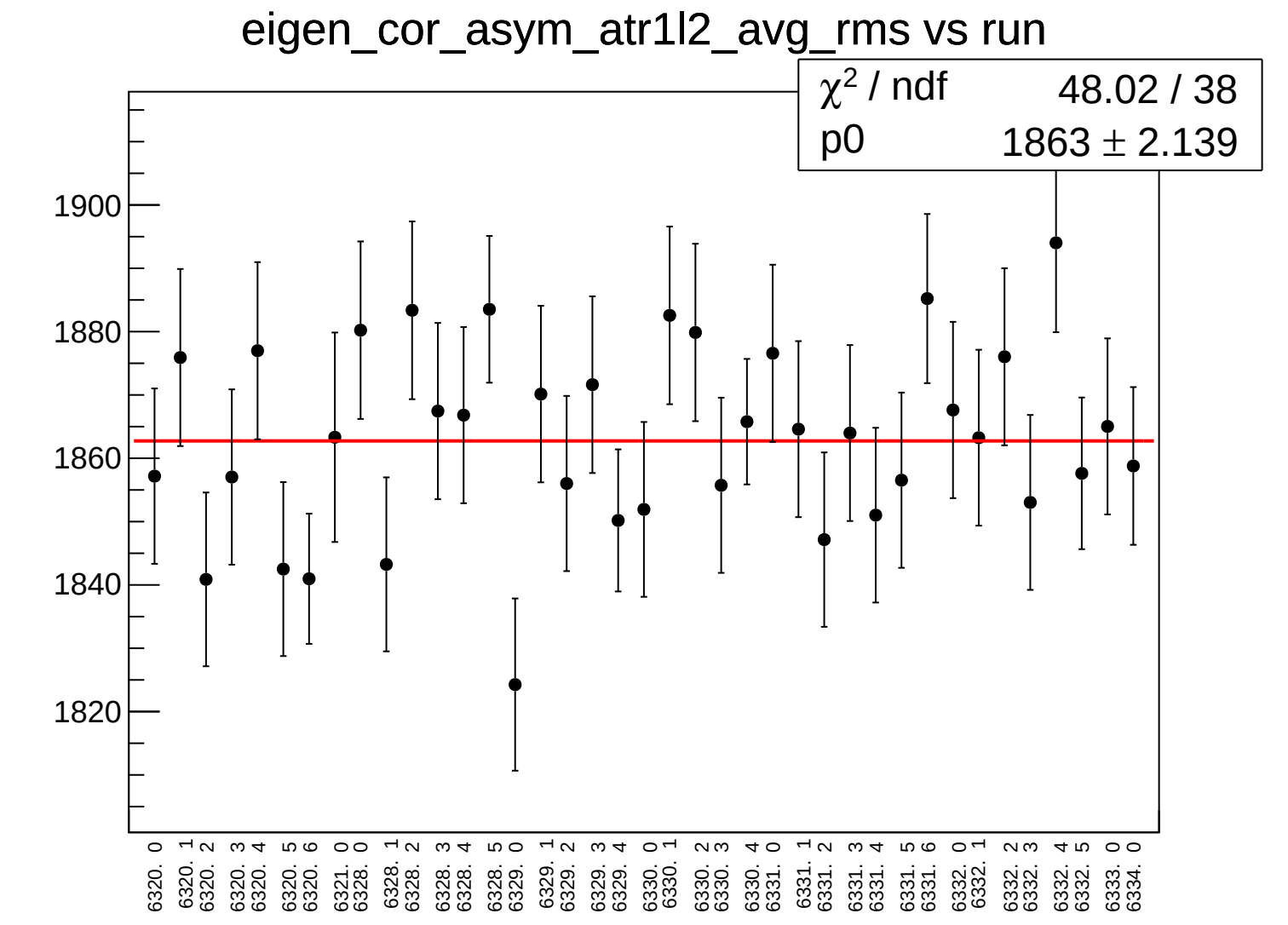
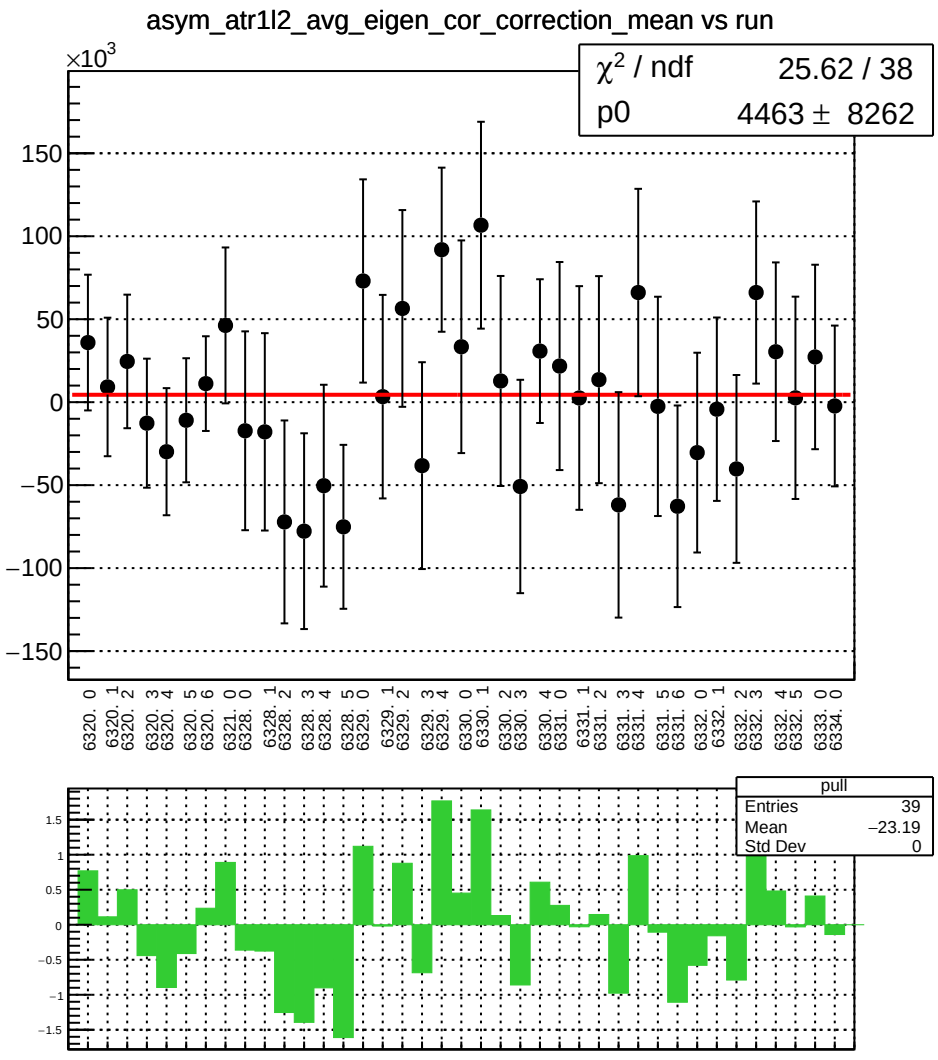
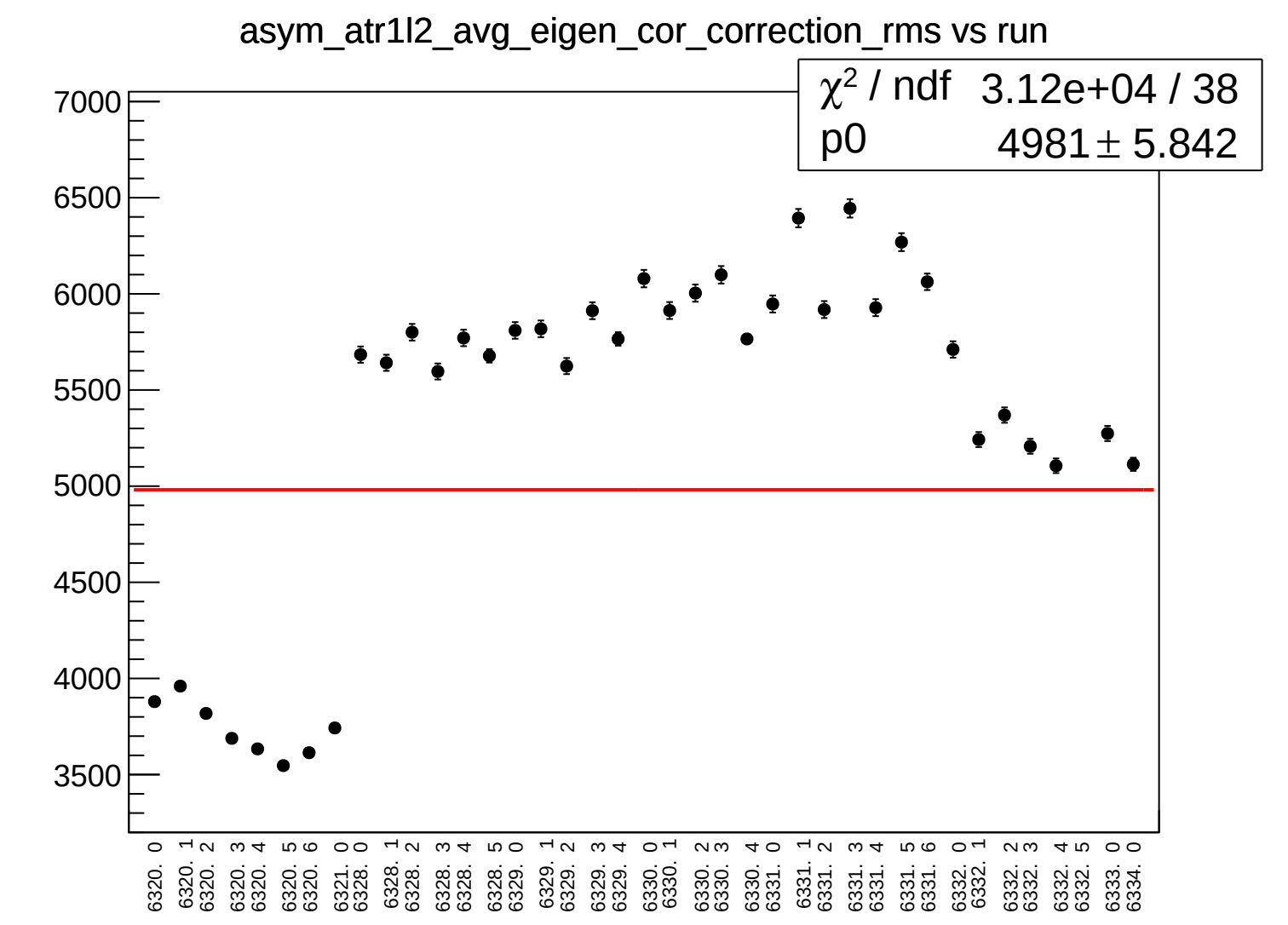
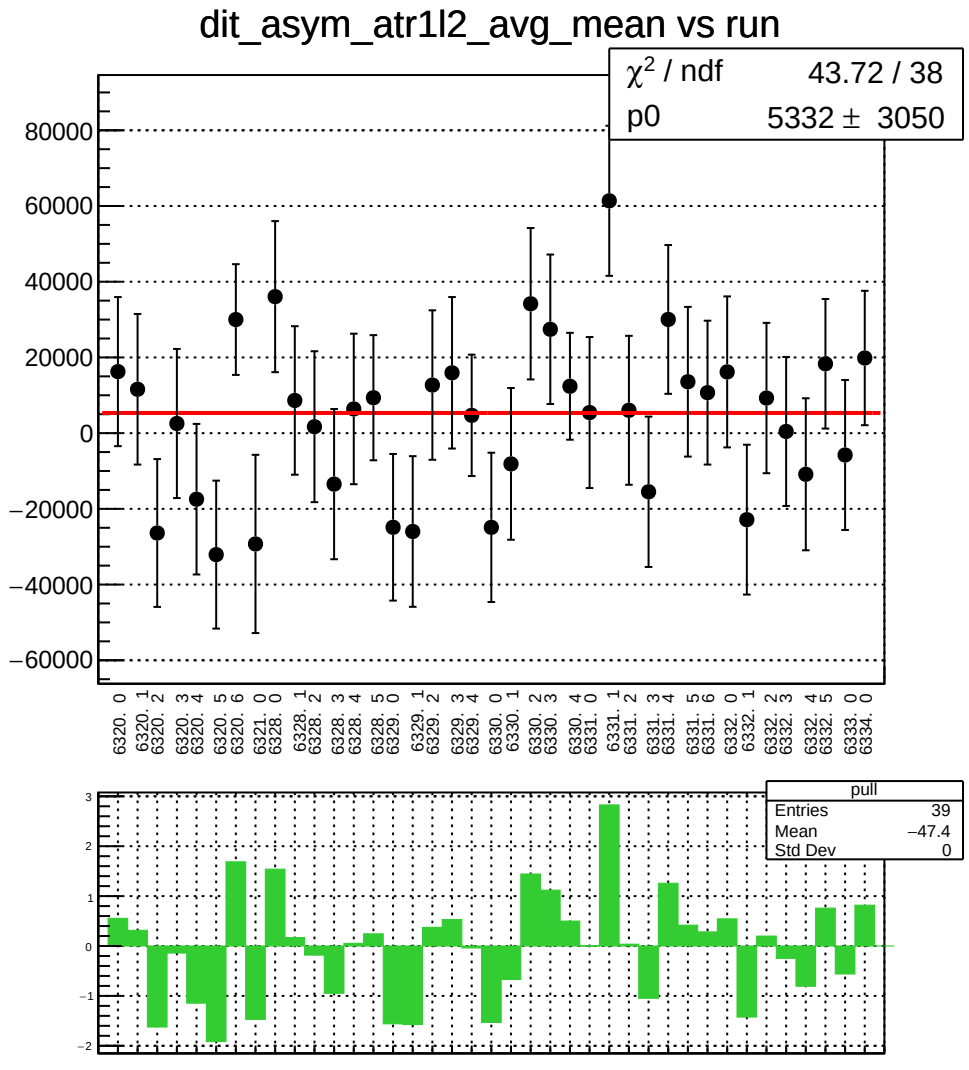

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3.12e+04 / 38
p0 4981 ± 5.842
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

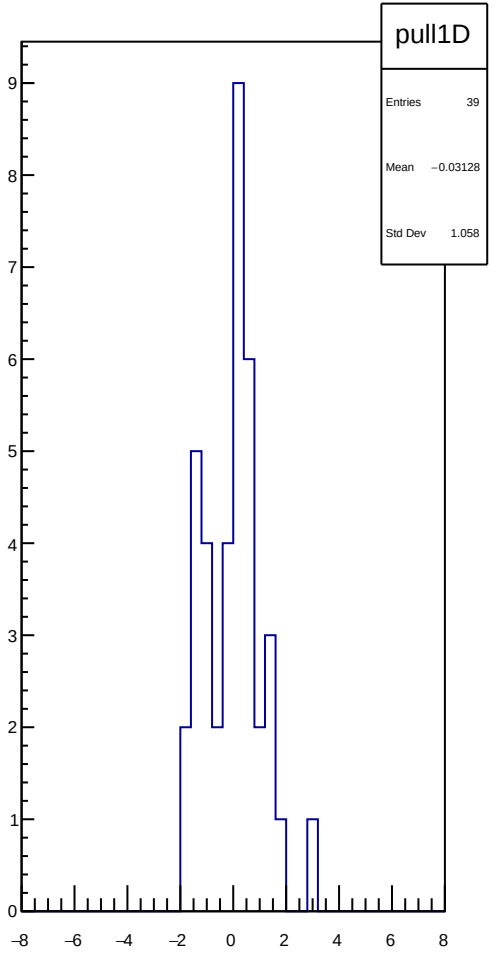

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 46.58 / 38
p0 5175 ± 3026
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03231
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

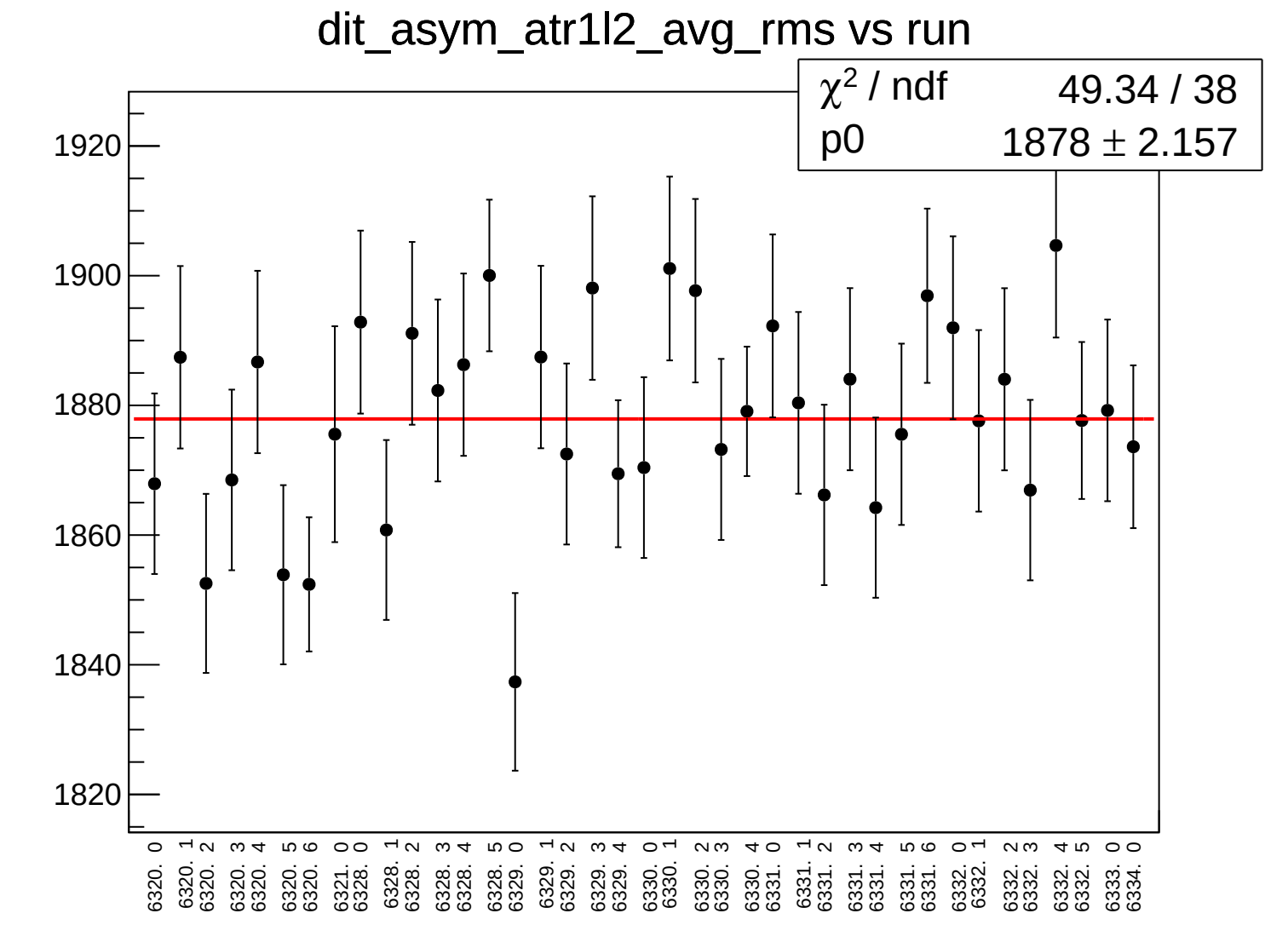

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 48.02 / 38
p0 1863 ± 2.139
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

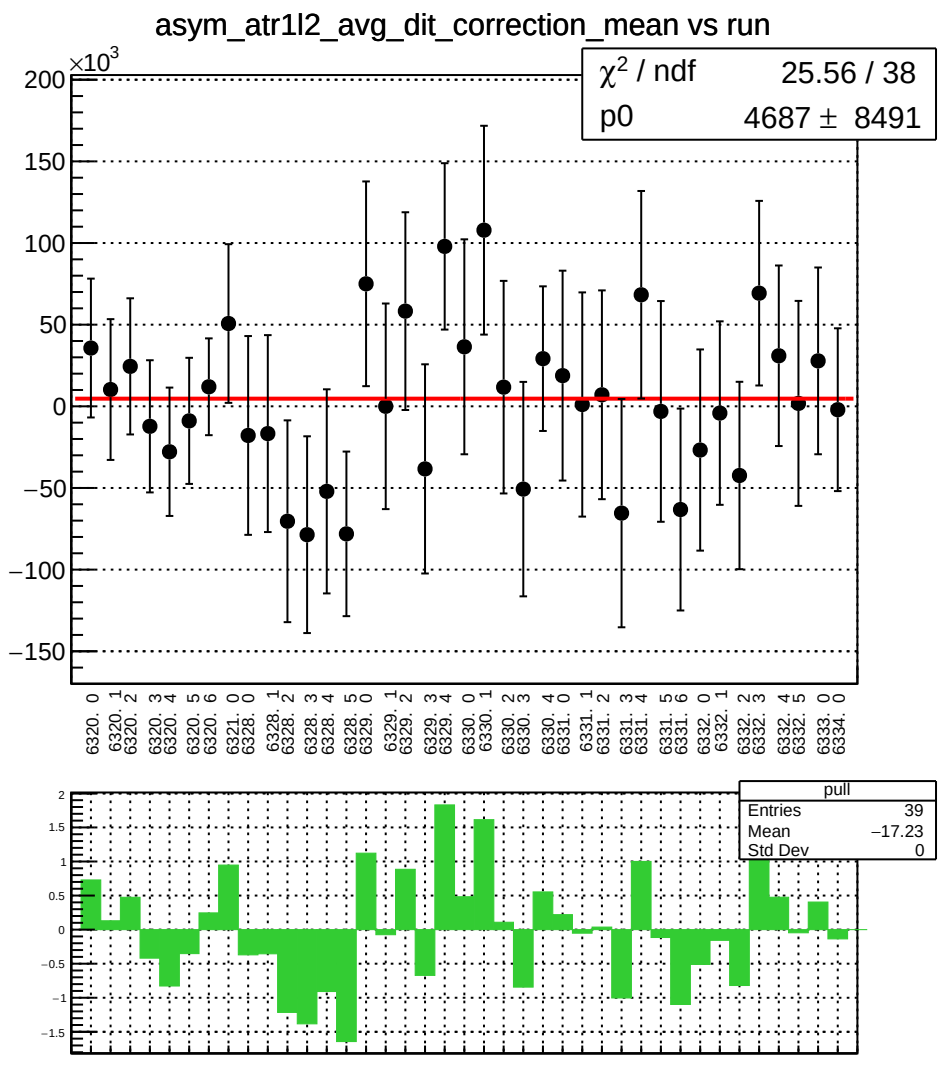

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.62 / 38
p0 4463 ± 8262
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01531
Std Dev 0.8103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

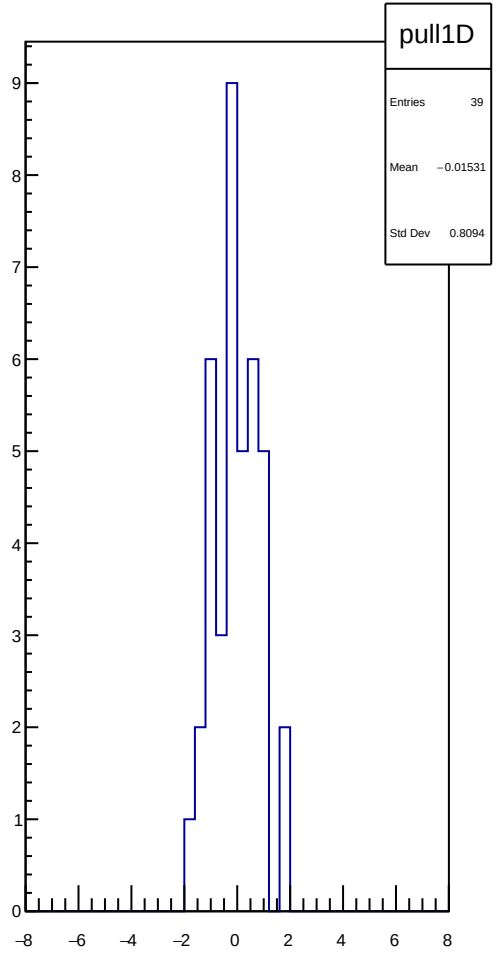

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.12e+04 / 38
p0 4981 ± 5.842
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 43.72 / 38
p0 5332 ± 3050
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.03128
Std Dev 1.058
9
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 49.34 / 38
p0 1878 ± 2.157
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 25.56 / 38
p0 4687 ± 8491
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01531
Std Dev 0.8094
9
8
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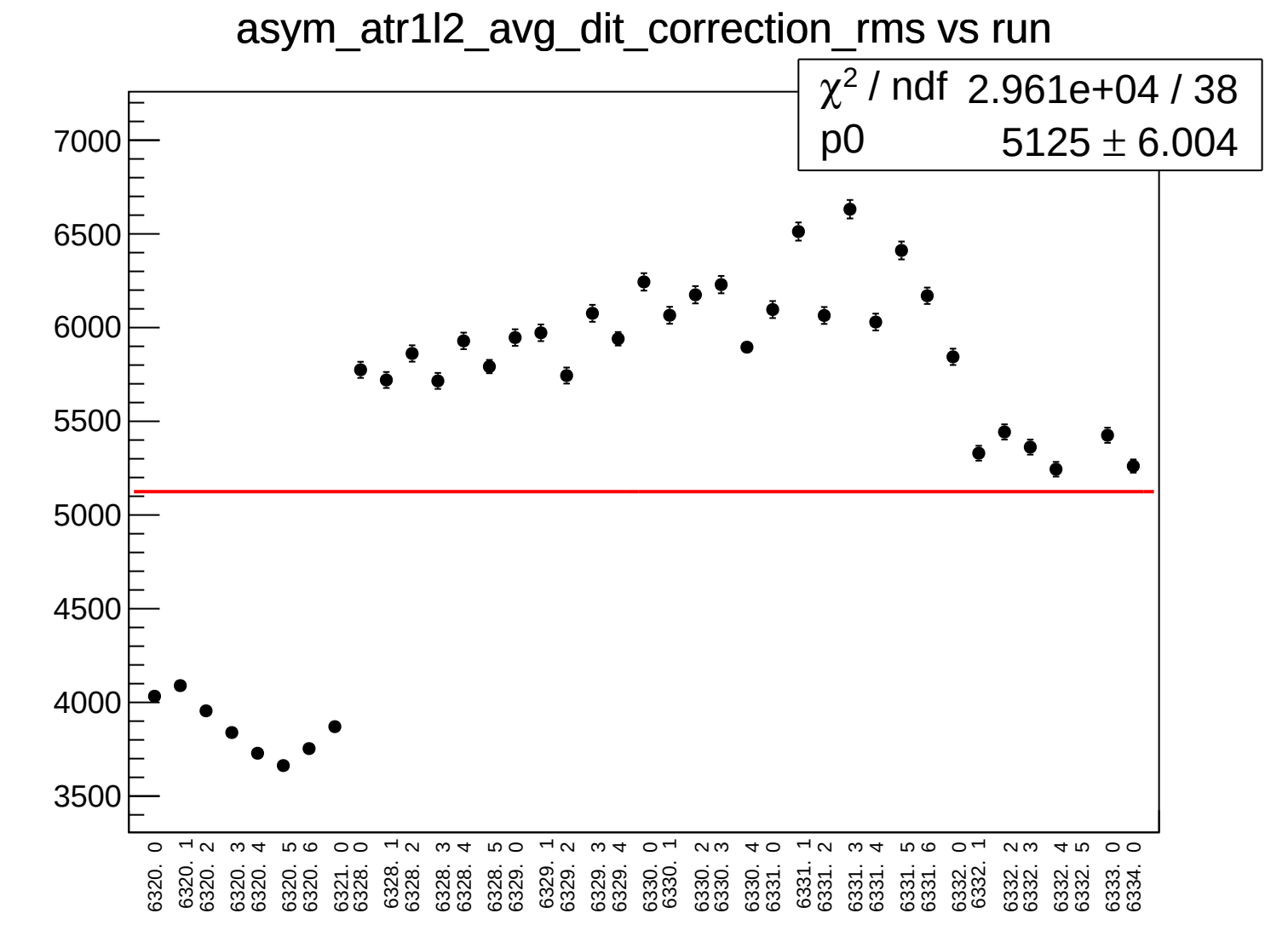
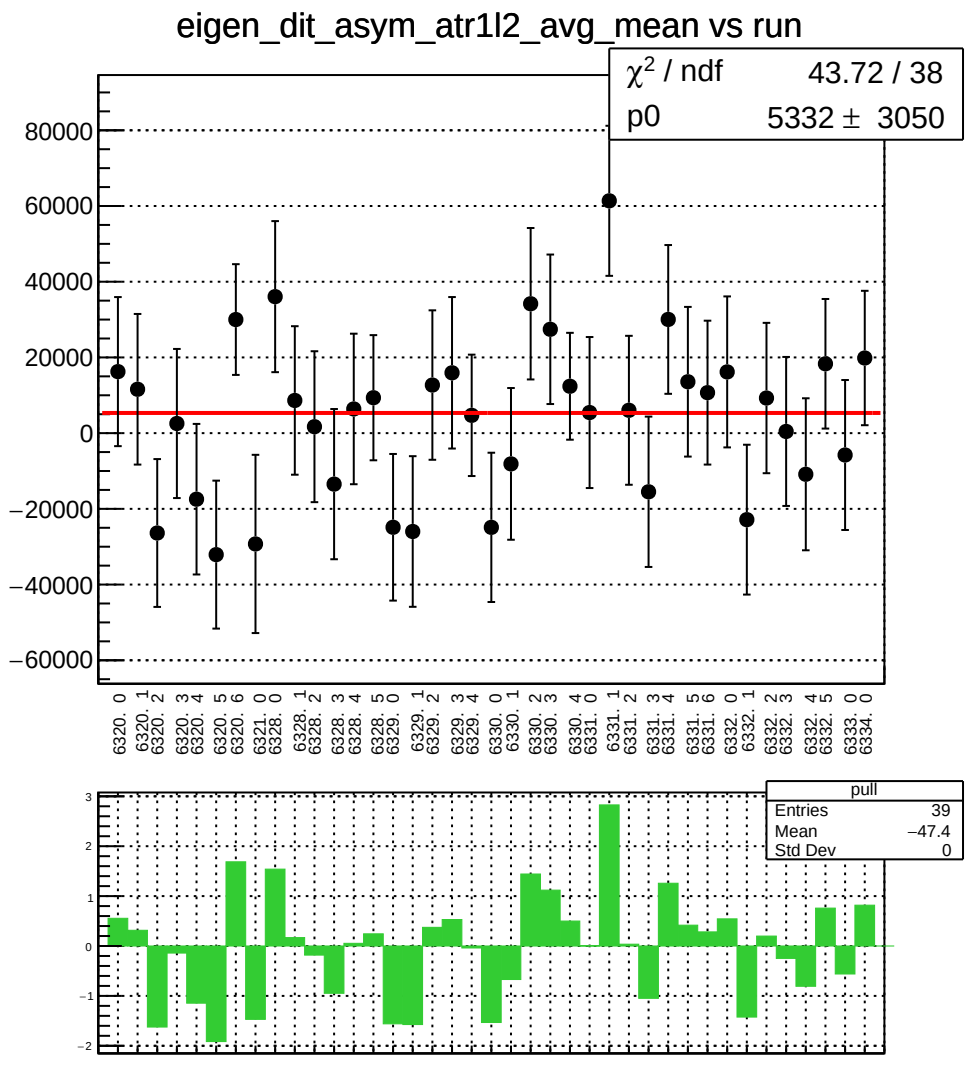
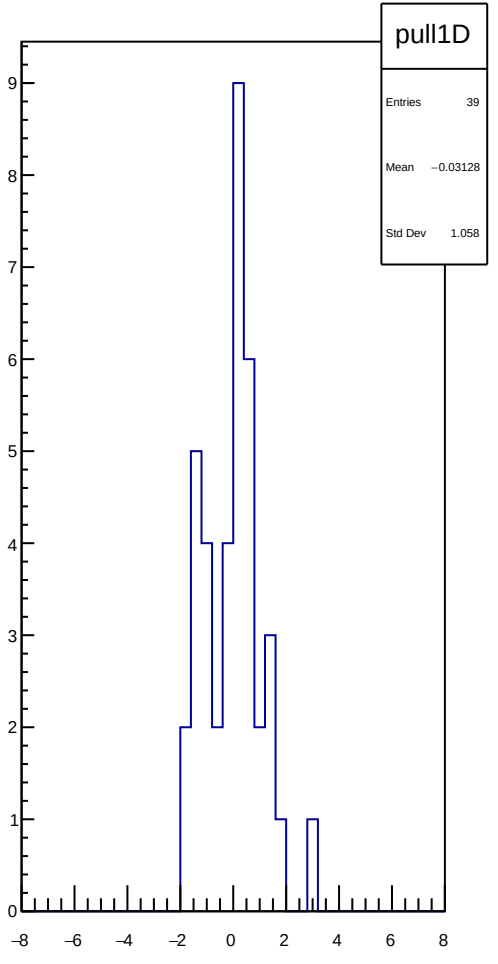
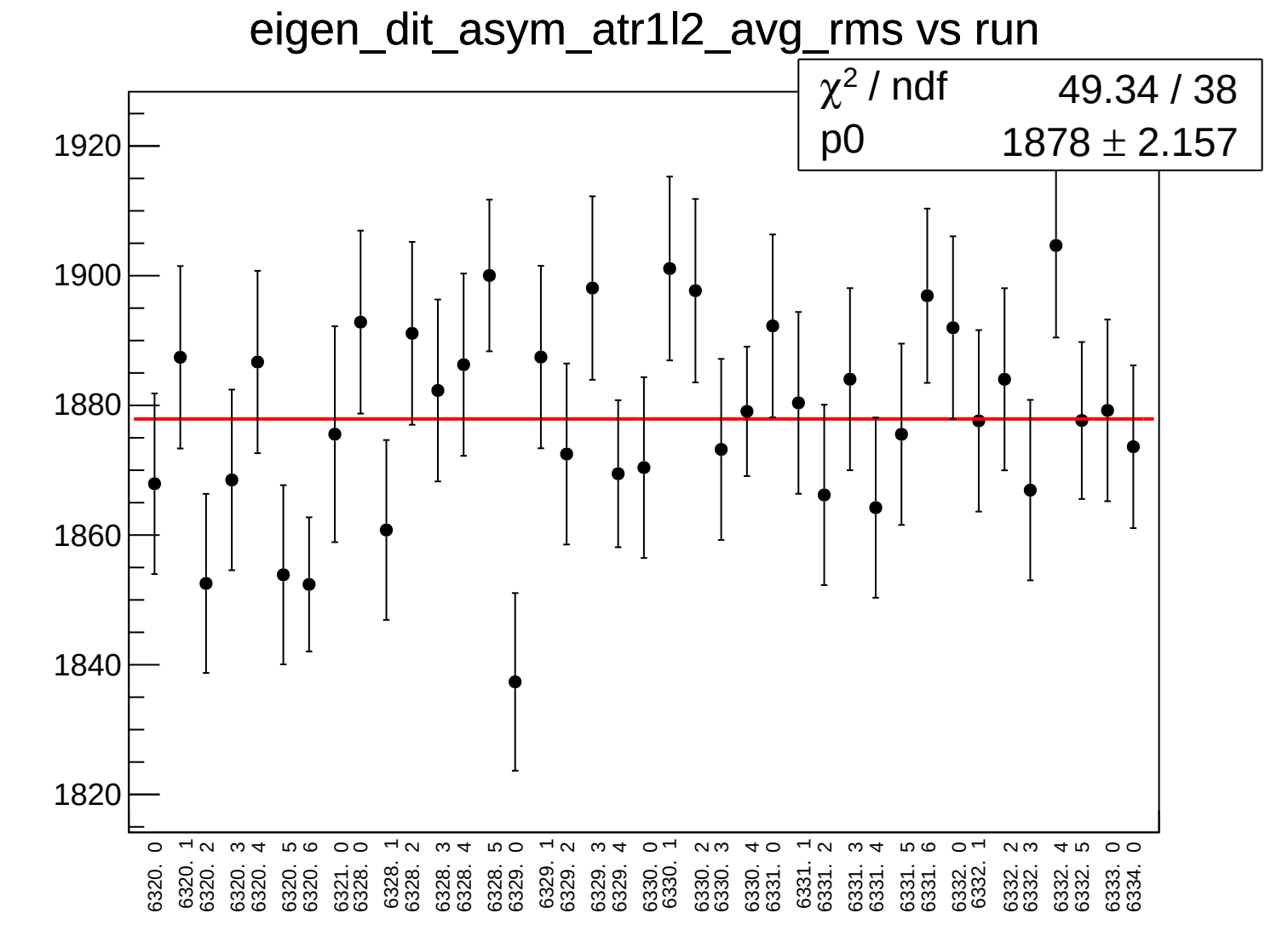
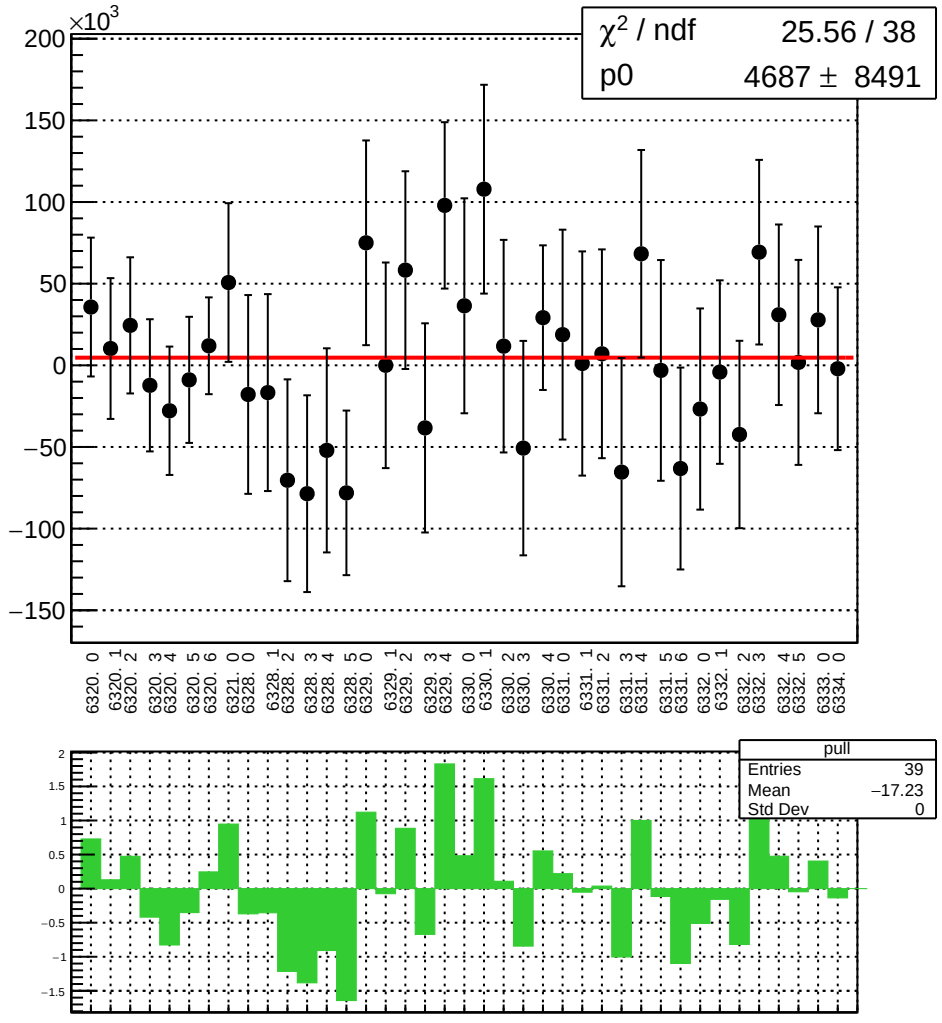
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

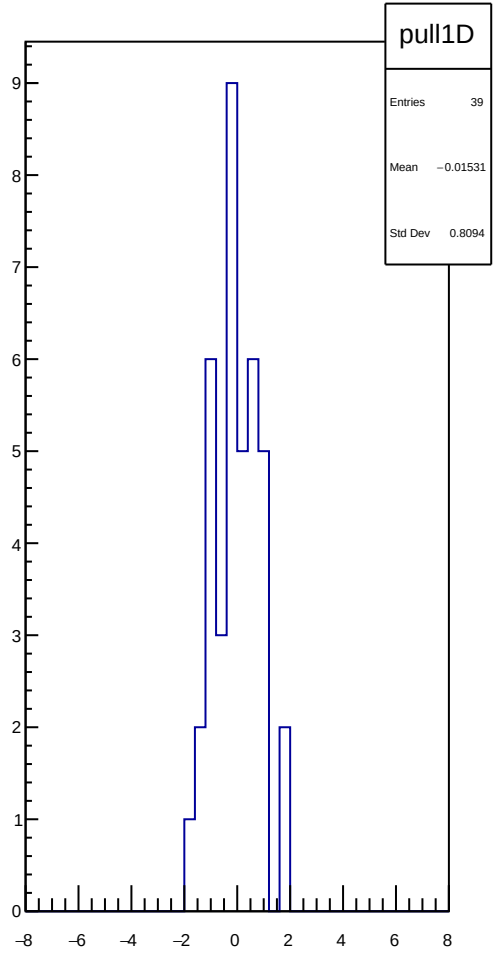

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.961e+04 / 38
p0 5125 ± 6.004
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

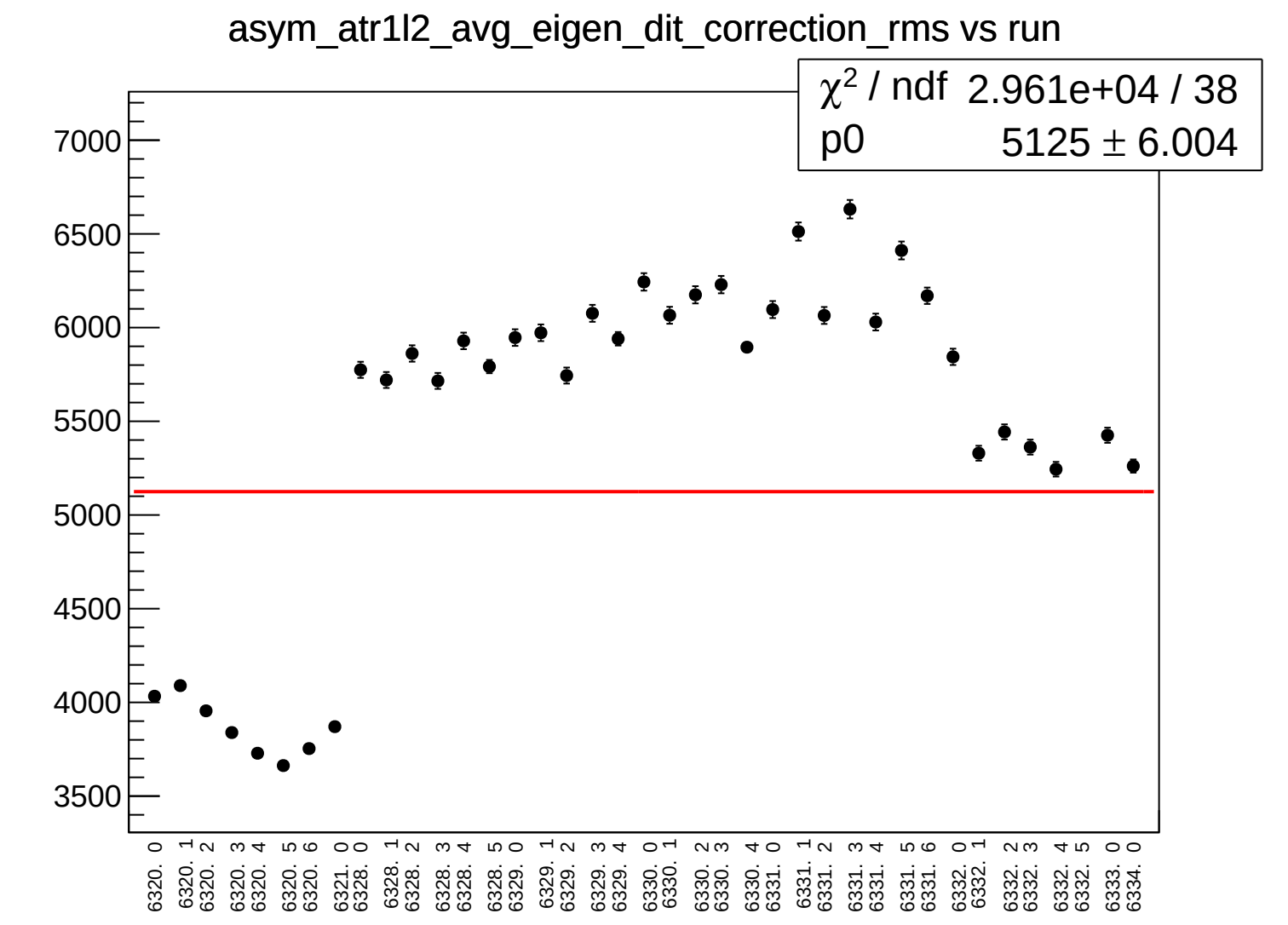

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 43.72 / 38
p0 5332 ± 3050
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.4
Std Dev 0
3
2
1
0
−1
−2

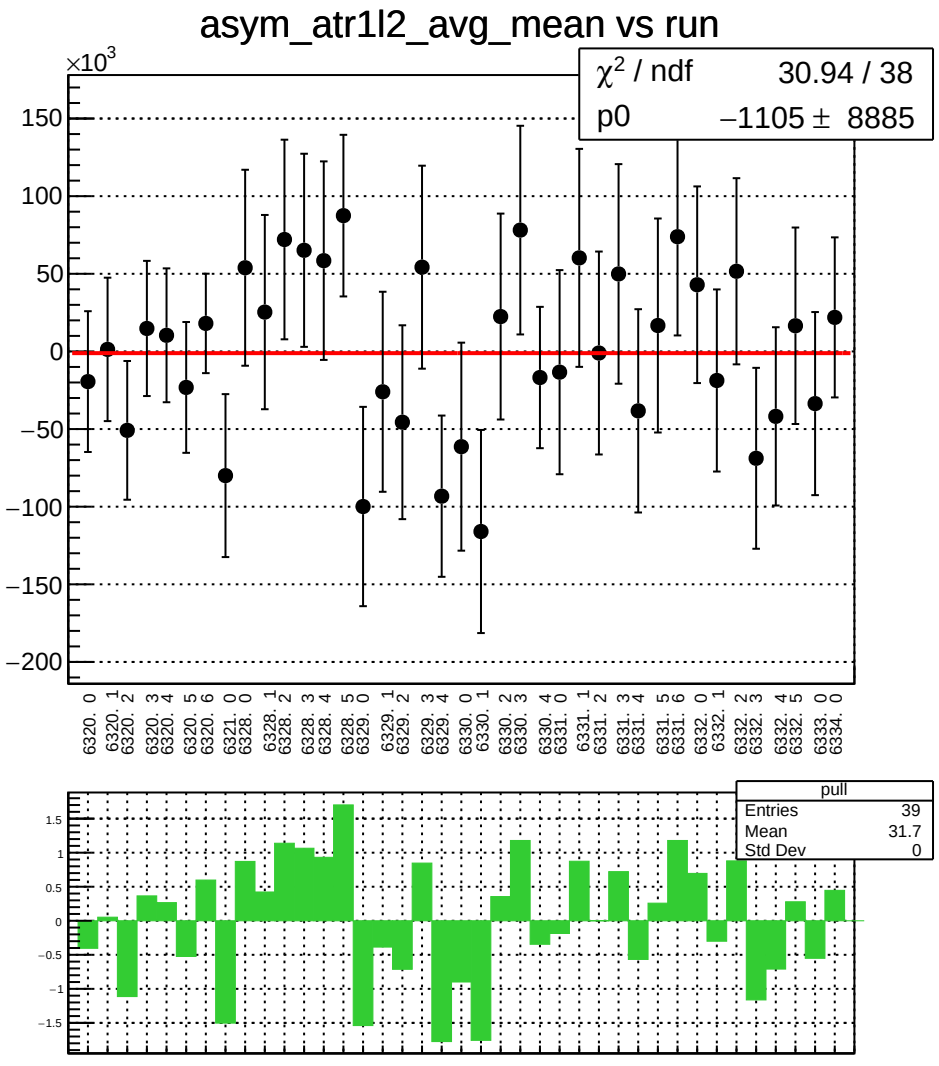

pull1D
Entries 39
Mean −0.03128
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

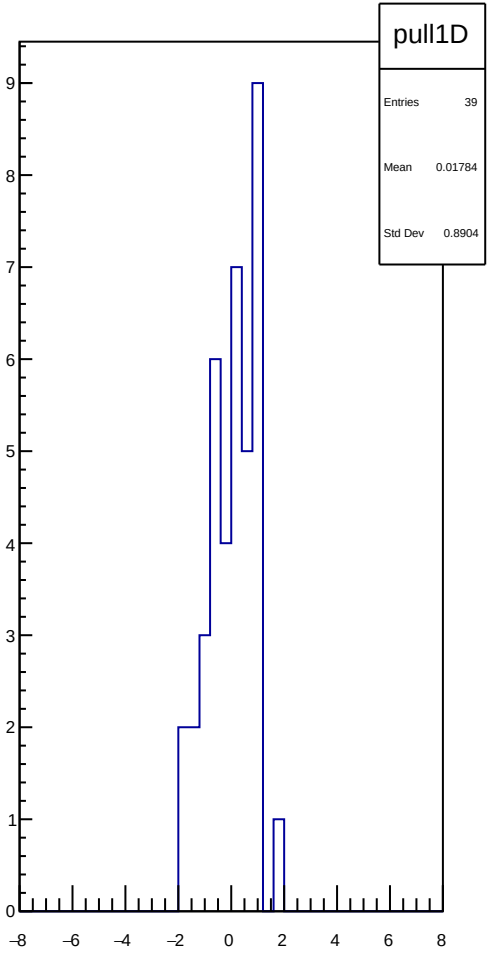

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 49.34 / 38
p0 1878 ± 2.157
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

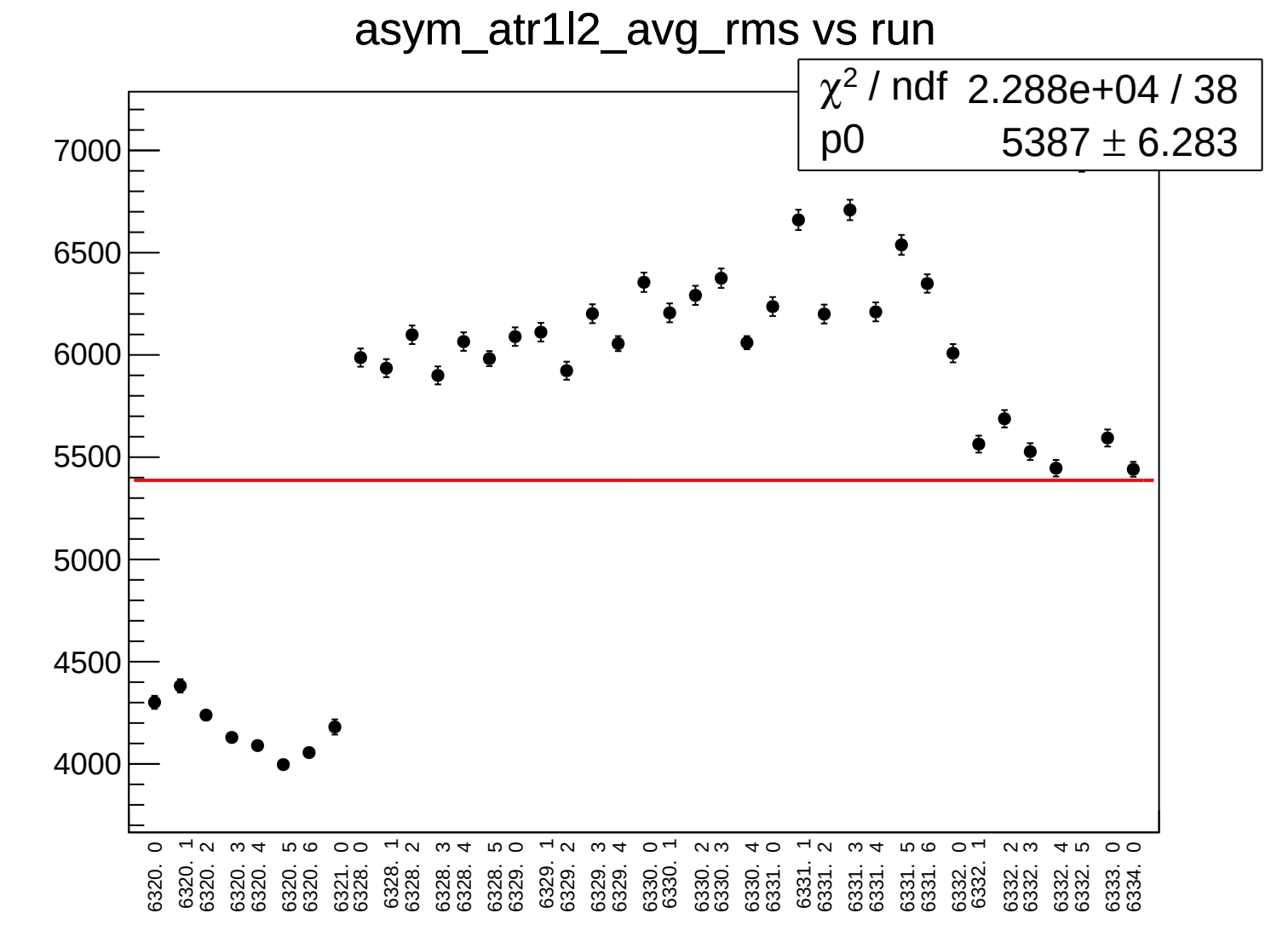

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 25.56 / 38
p0 4687 ± 8491
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

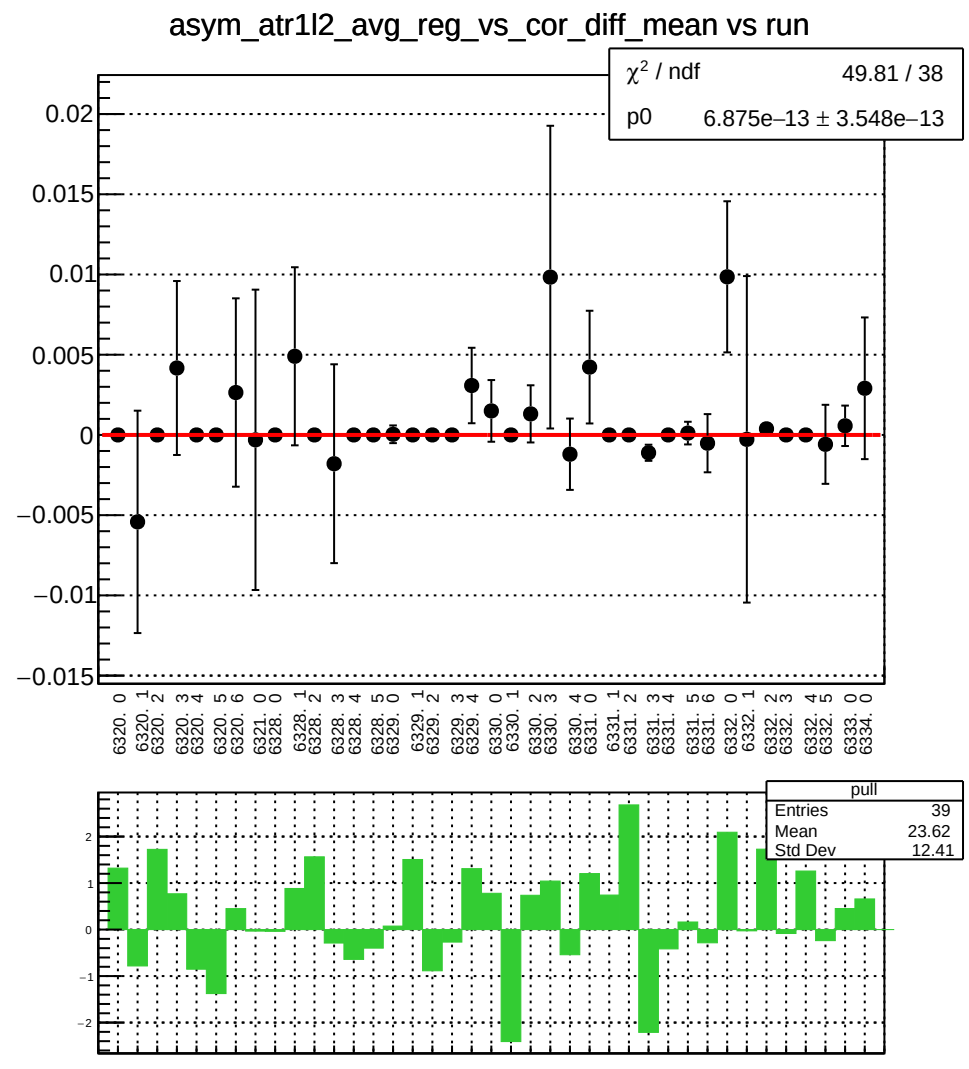

pull1D
Entries 39
Mean −0.01531
Std Dev 0.8094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

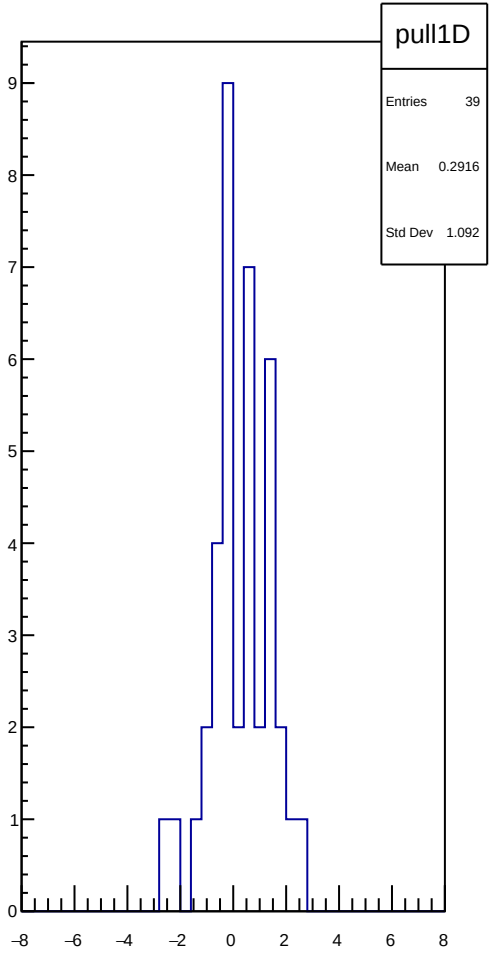

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.961e+04 / 38
p0 5125 ± 6.004
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

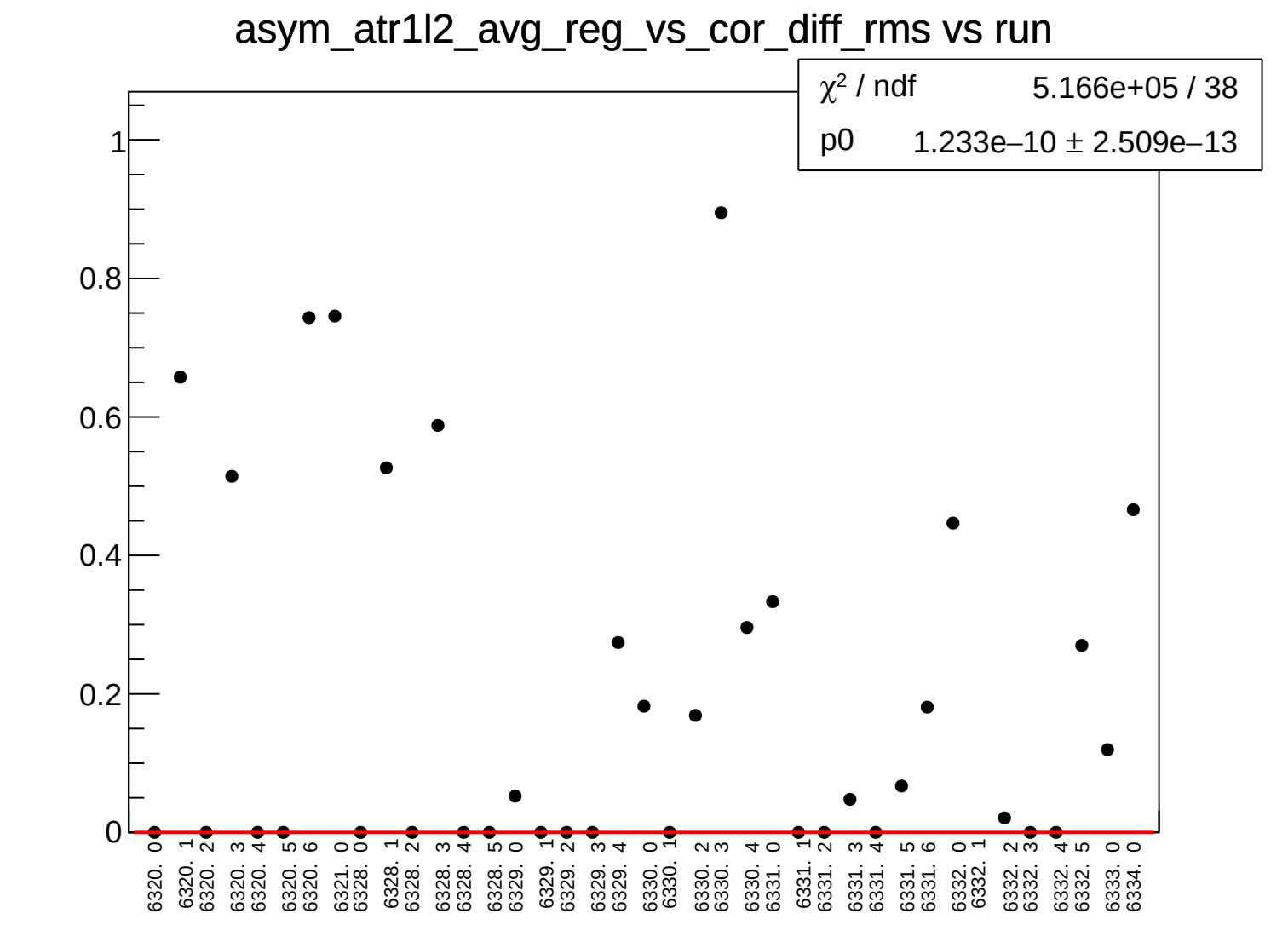

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 30.94 / 38
p0 −1105 ± 8885
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

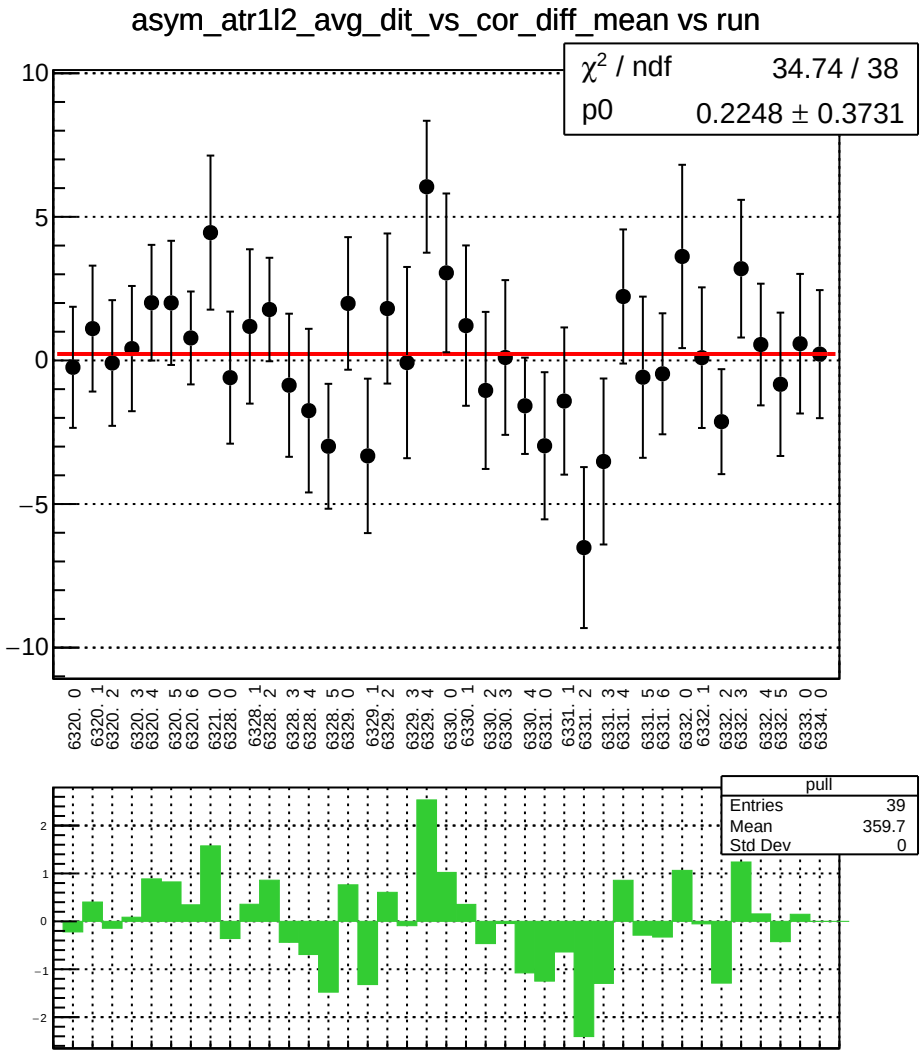

pull1D
Entries 39
Mean 0.01784
Std Dev 0.8904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

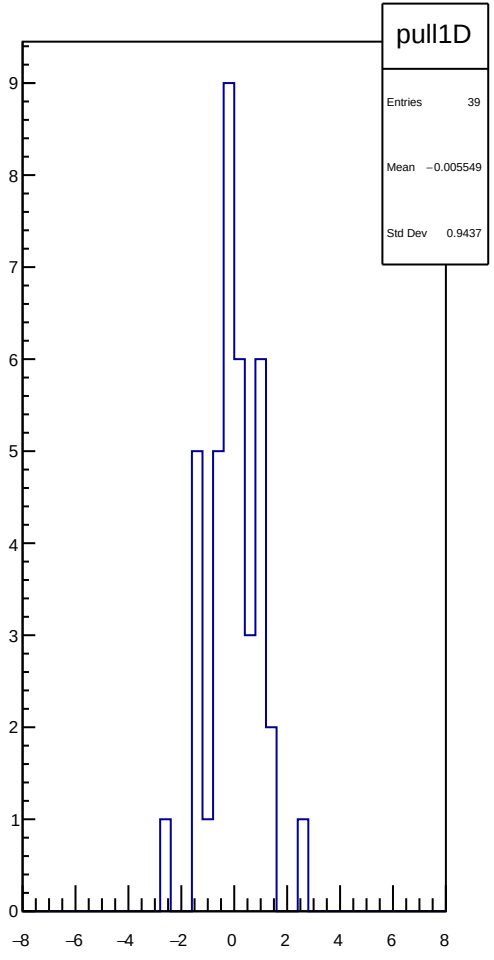

asym_atr1l2_avg_rms vs run
χ² / ndf 2.288e+04 / 38
p0 5387 ± 6.283
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

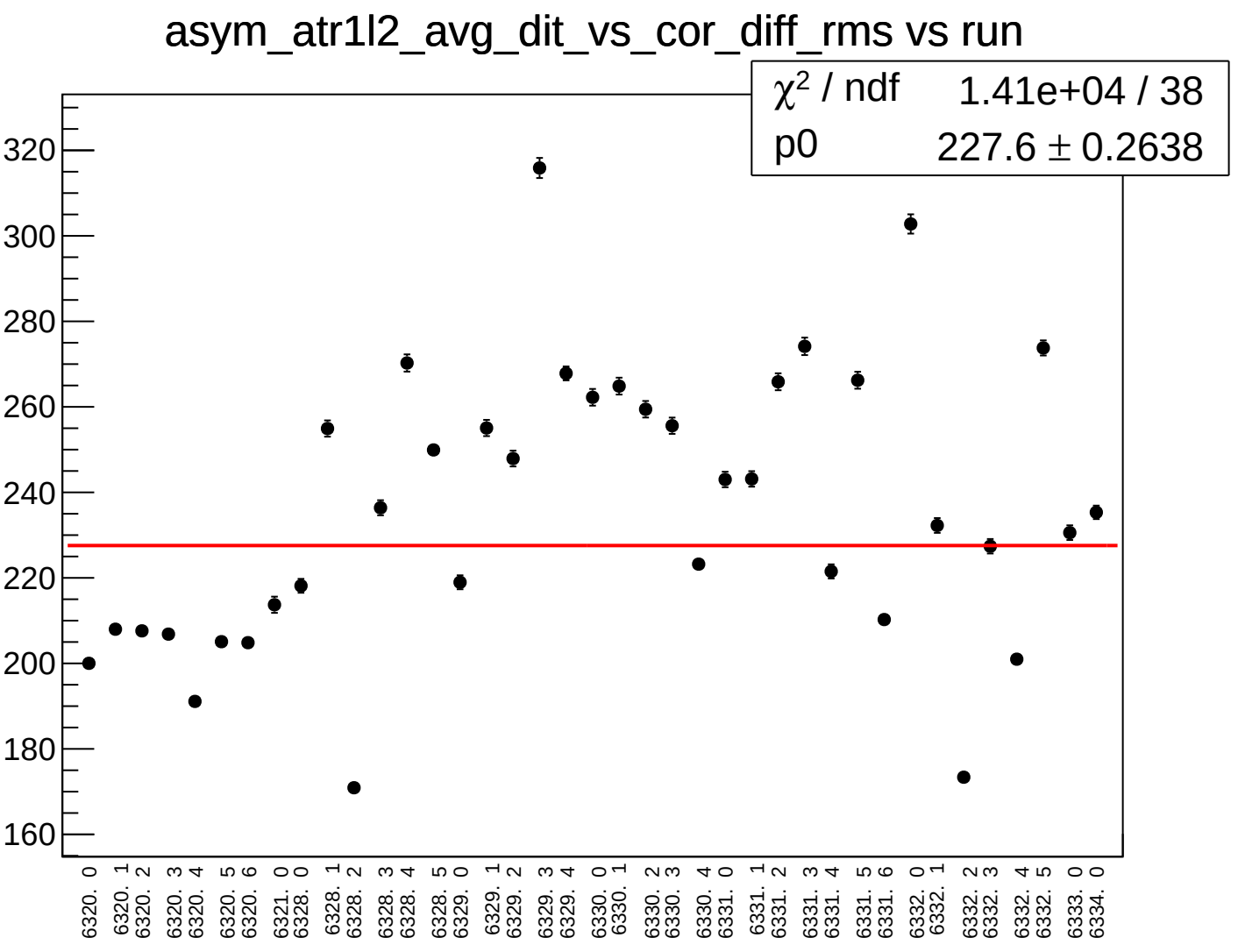

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 49.81 / 38
p0 6.875e−13 ± 3.548e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.62
Std Dev 12.41
2
1
0
−1
−2

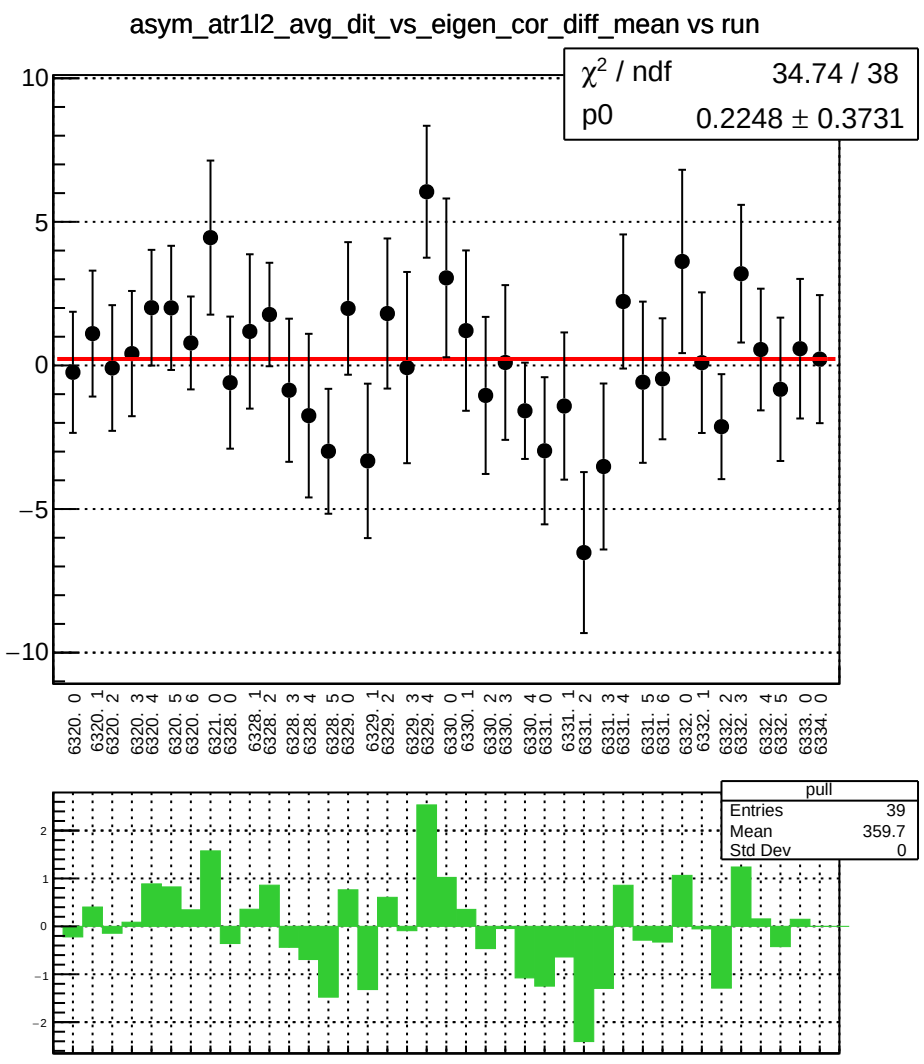

pull1D
Entries 39
Mean 0.2916
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

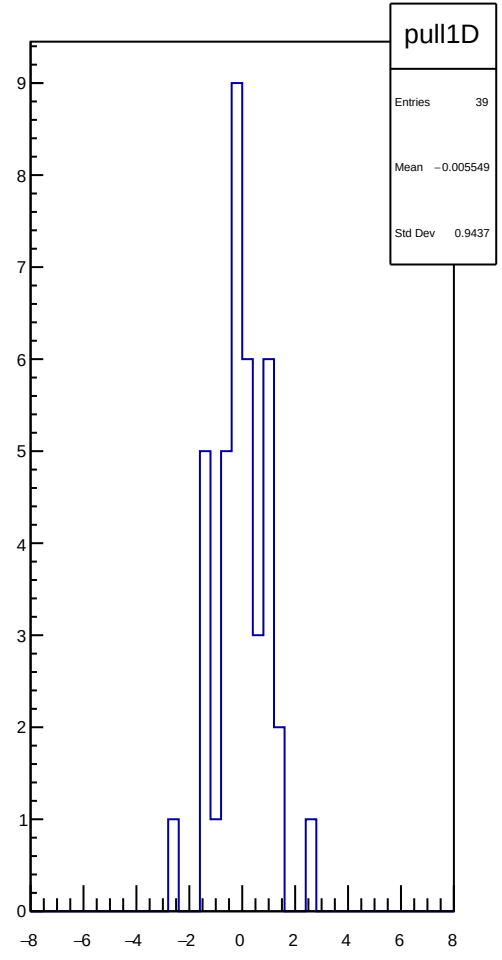

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.166e+05 / 38
p0 1.233e−10 ± 2.509e−13
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

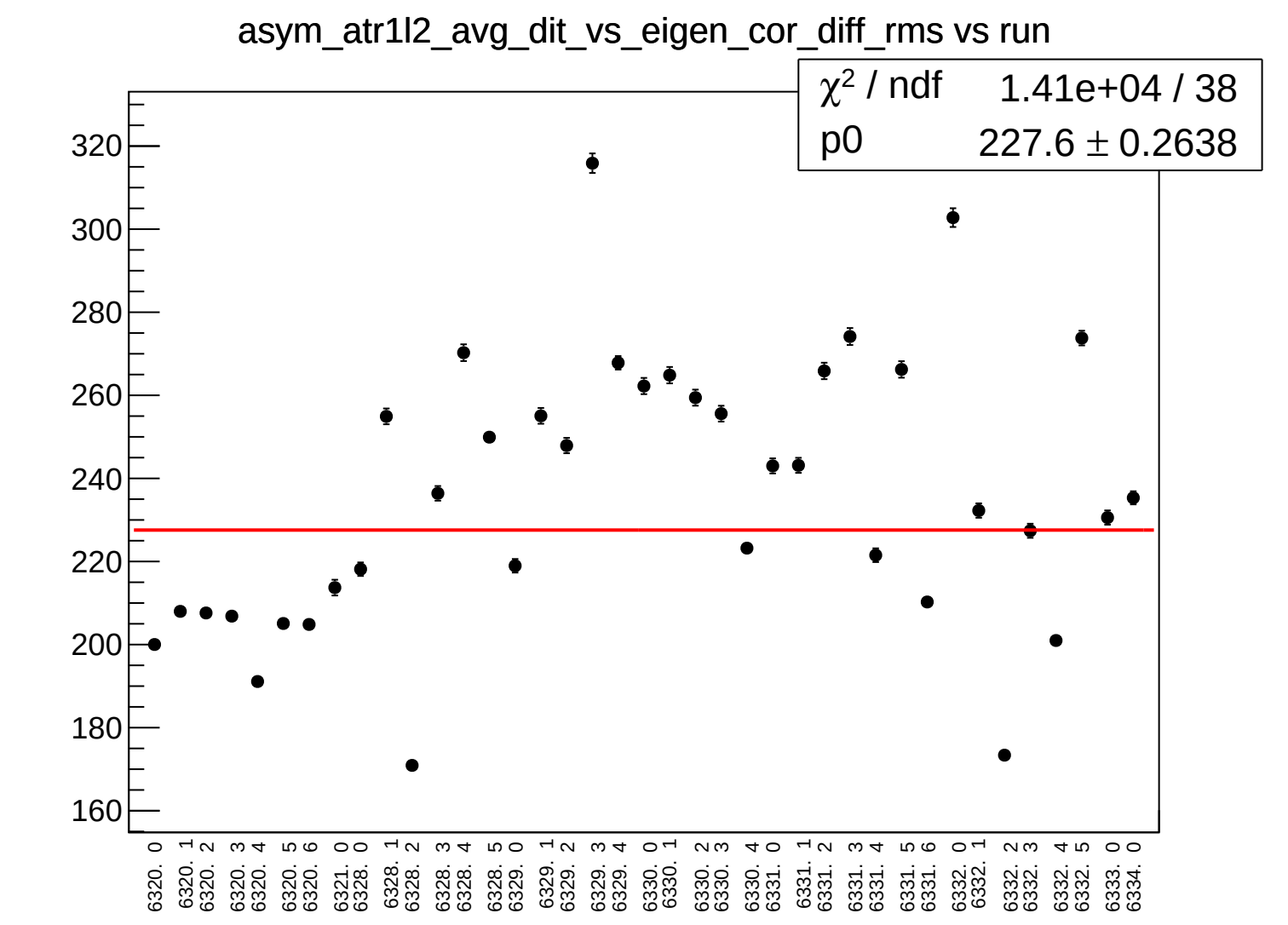

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.74 / 38
p0 0.2248 ± 0.3731
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 359.7
Std Dev 0
2
1
0
−1
−2

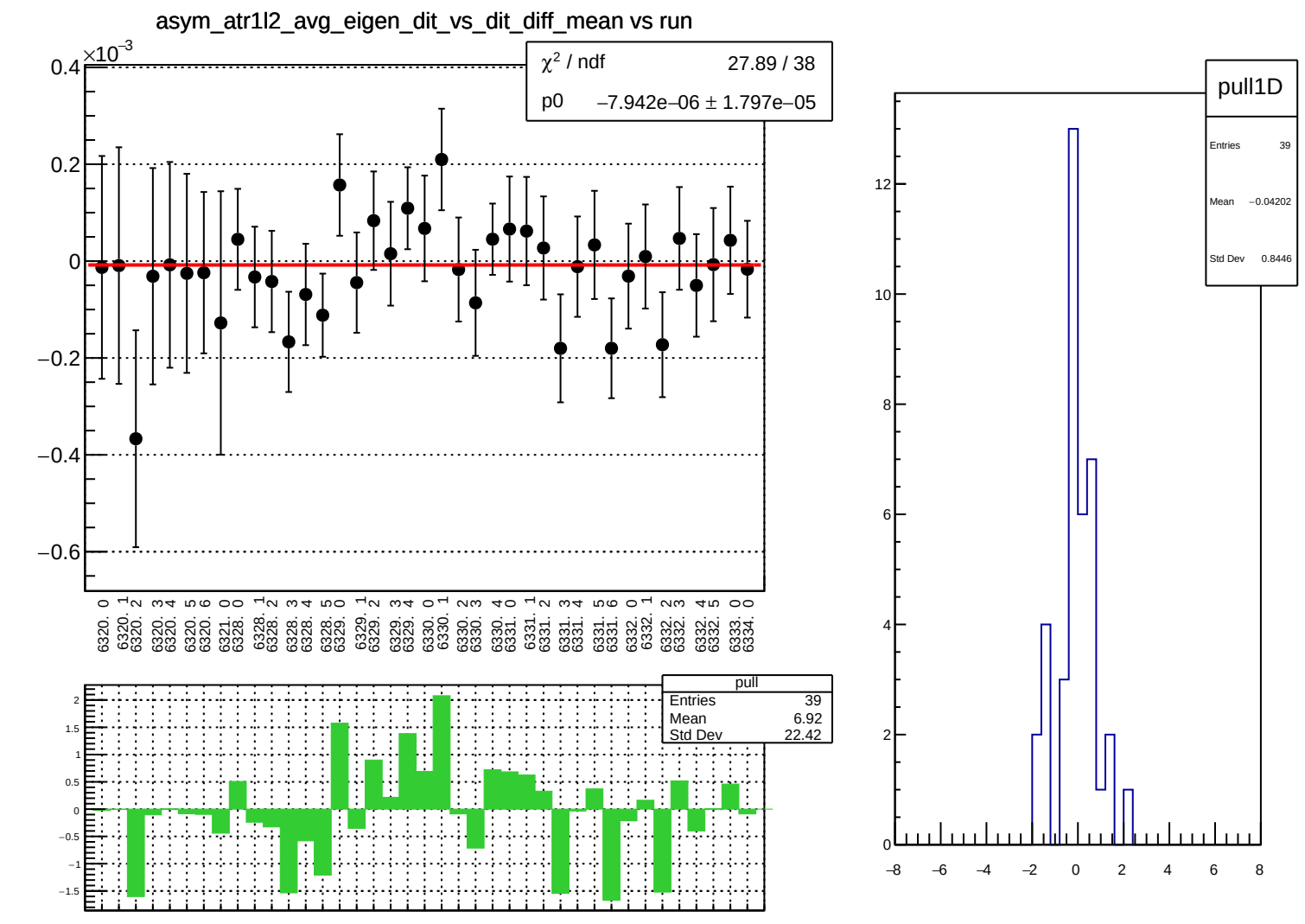

pull1D
Entries 39
Mean −0.005549
Std Dev 0.9437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

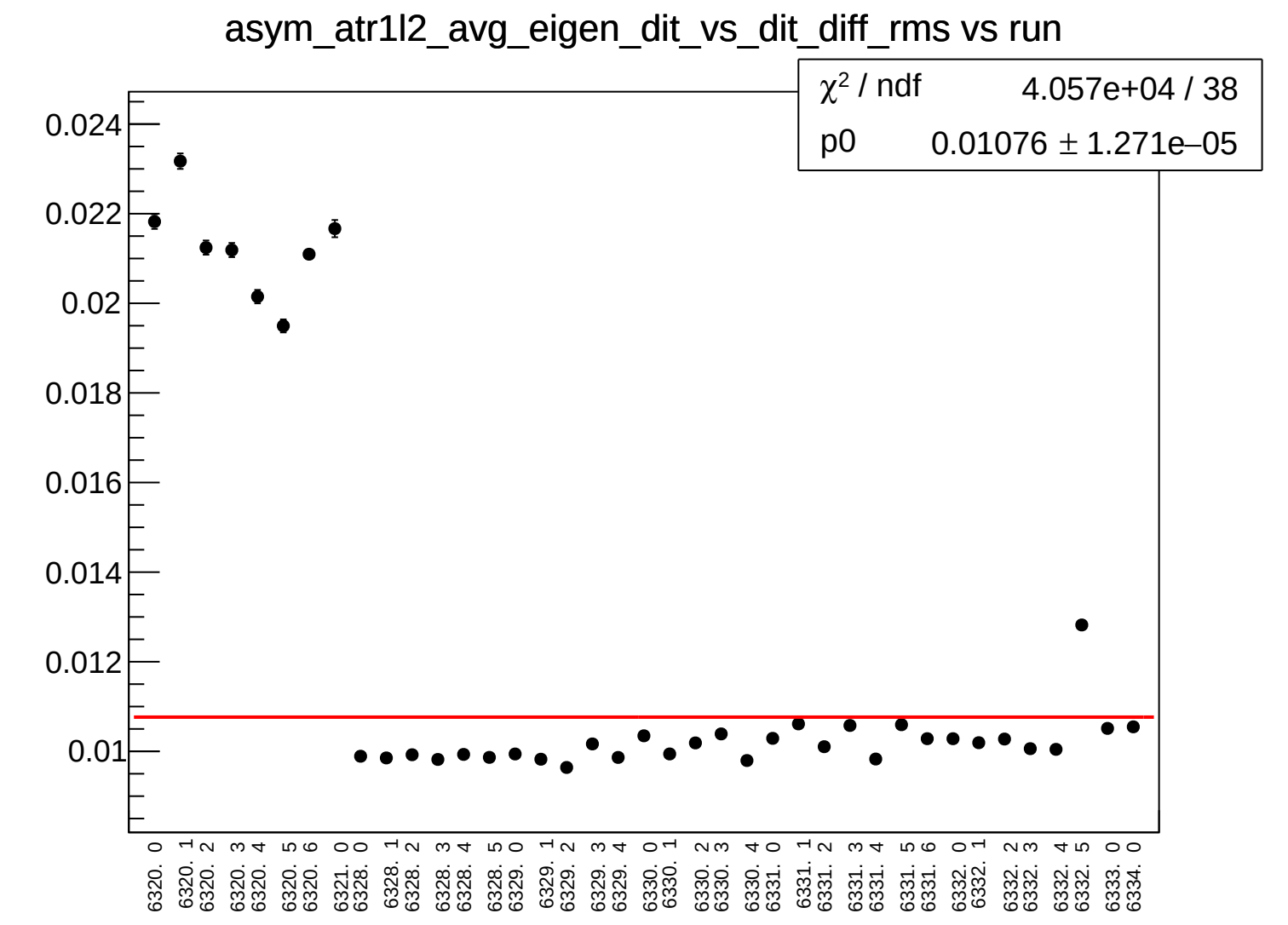

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.41e+04 / 38
p0 227.6 ± 0.2638
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

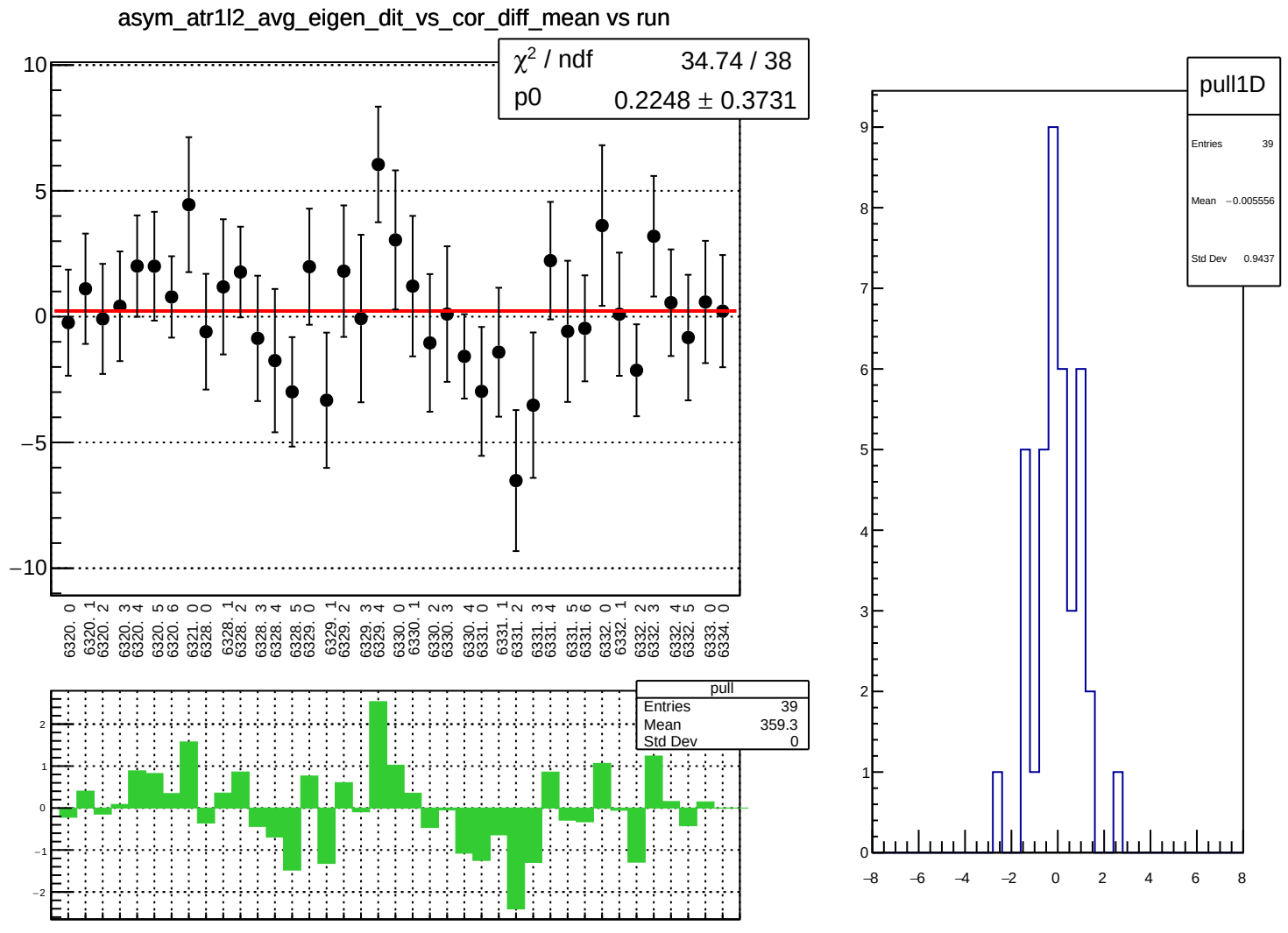

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.74 / 38
p0 0.2248 ± 0.3731
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 359.7
Std Dev 0
2
1
0
−1
−2

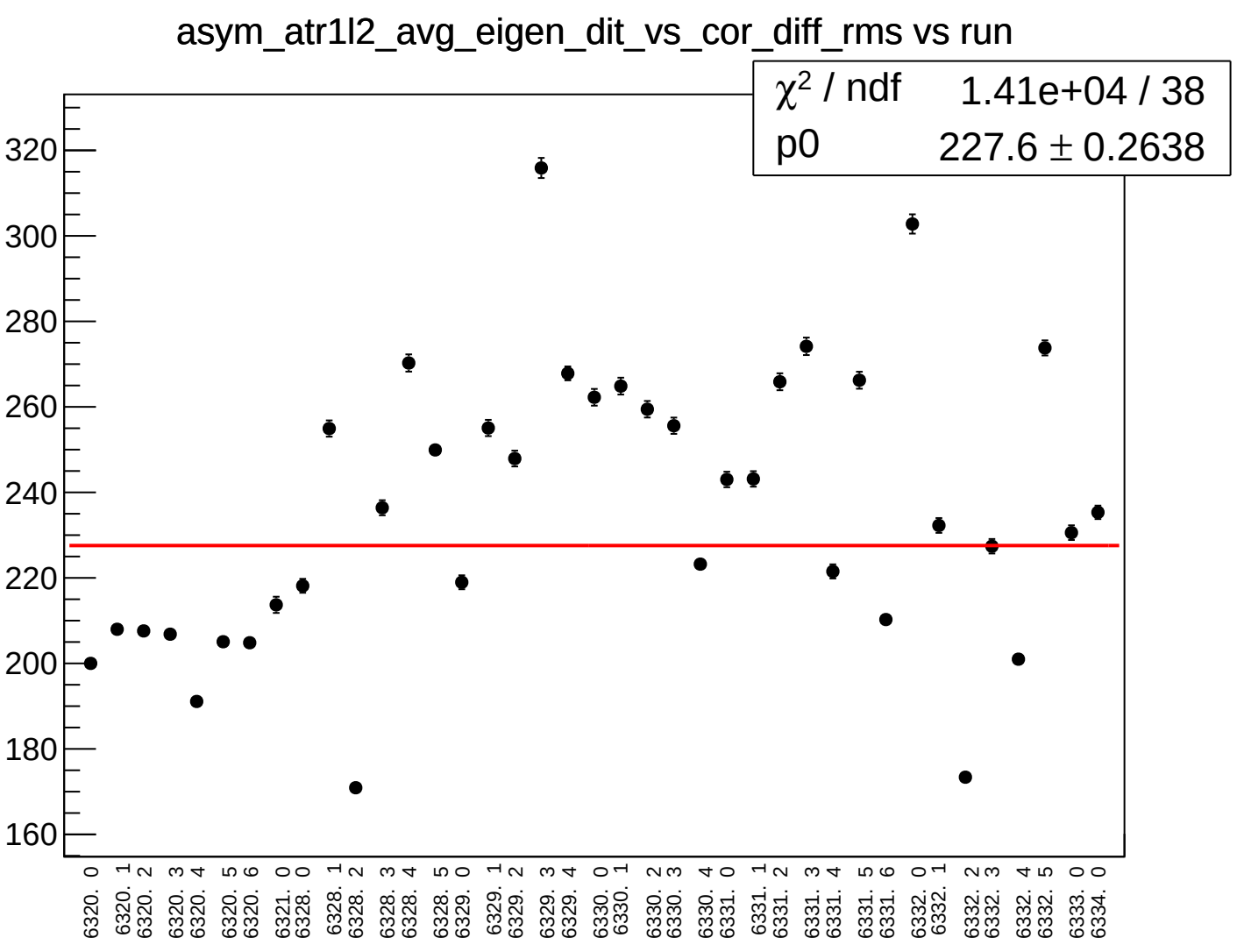

pull1D
Entries 39
Mean −0.005549
Std Dev 0.9437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

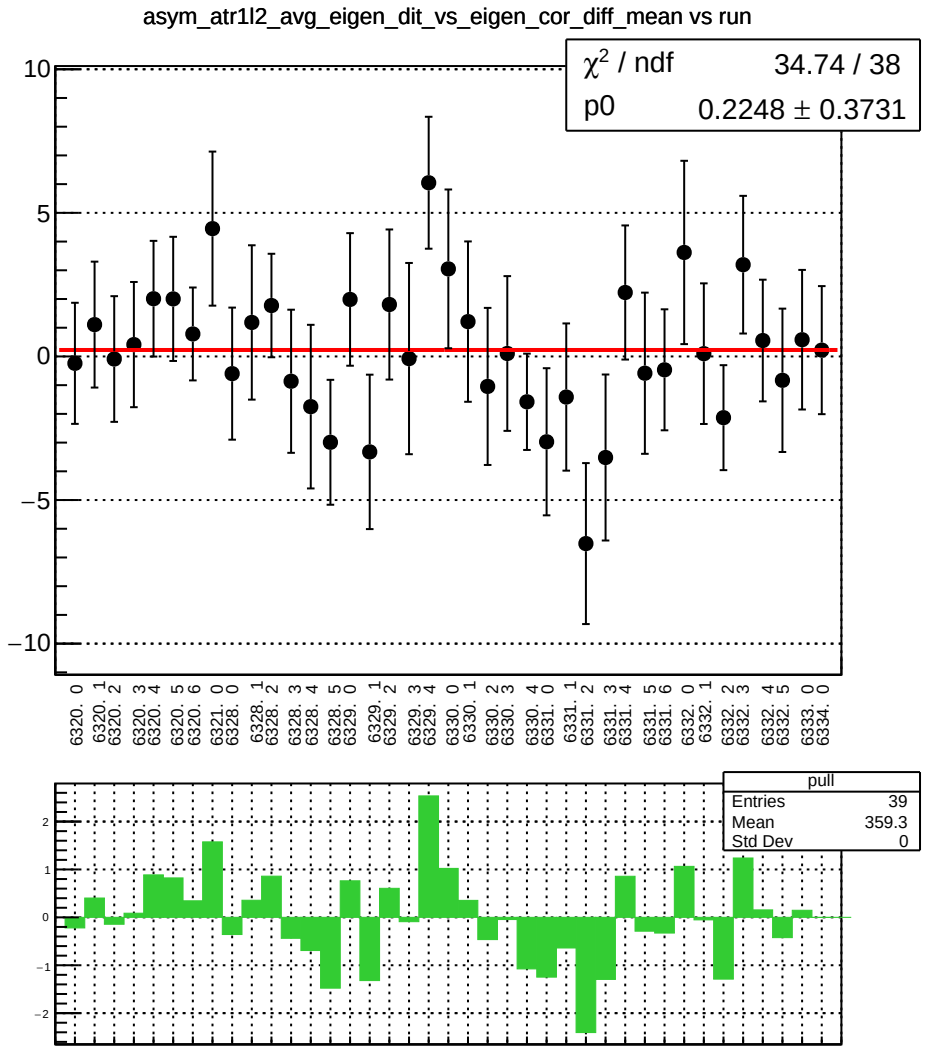

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.41e+04 / 38
p0 227.6 ± 0.2638
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

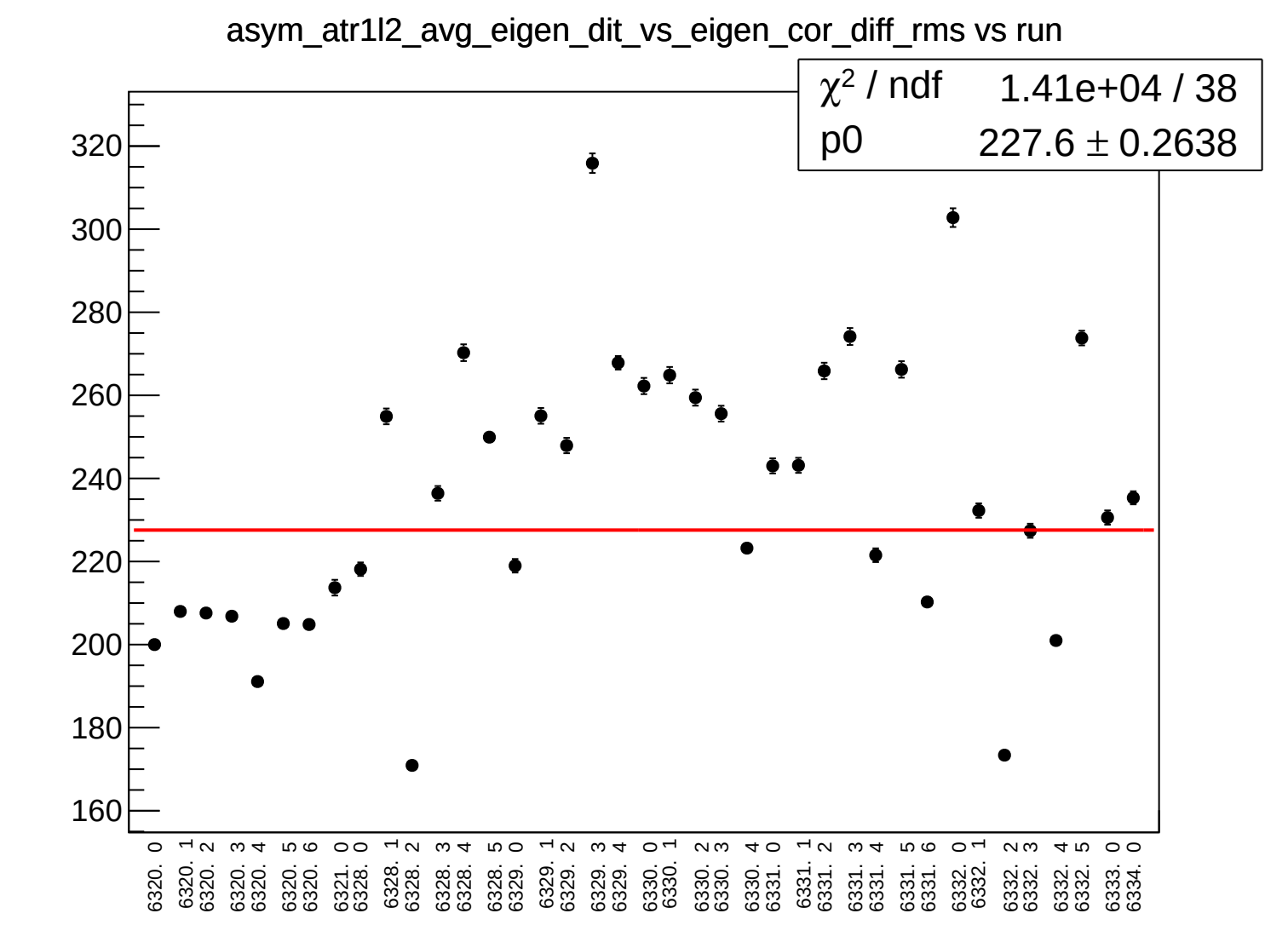

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.89 / 38
p0 −7.942e−06 ± 1.797e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.92
Std Dev 22.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.04202
Std Dev 0.8446
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

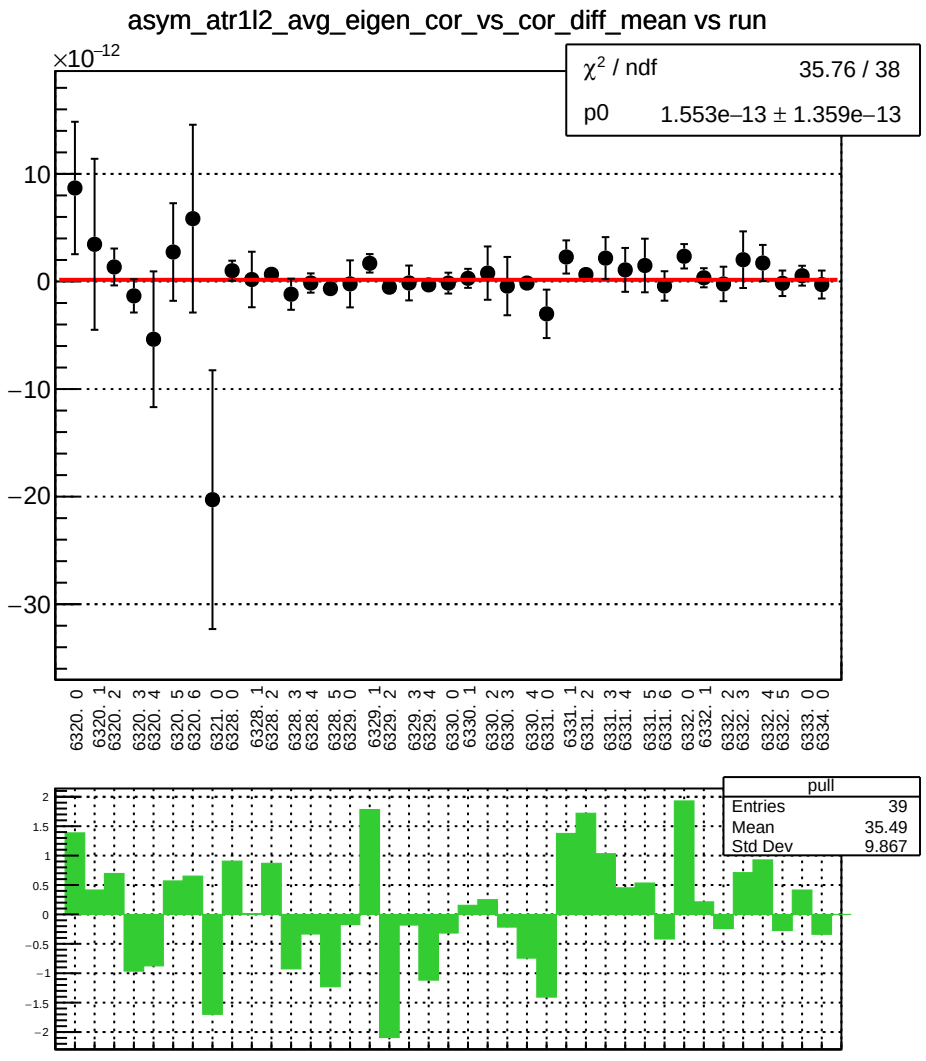

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.057e+04 / 38
p0 0.01076 ± 1.271e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

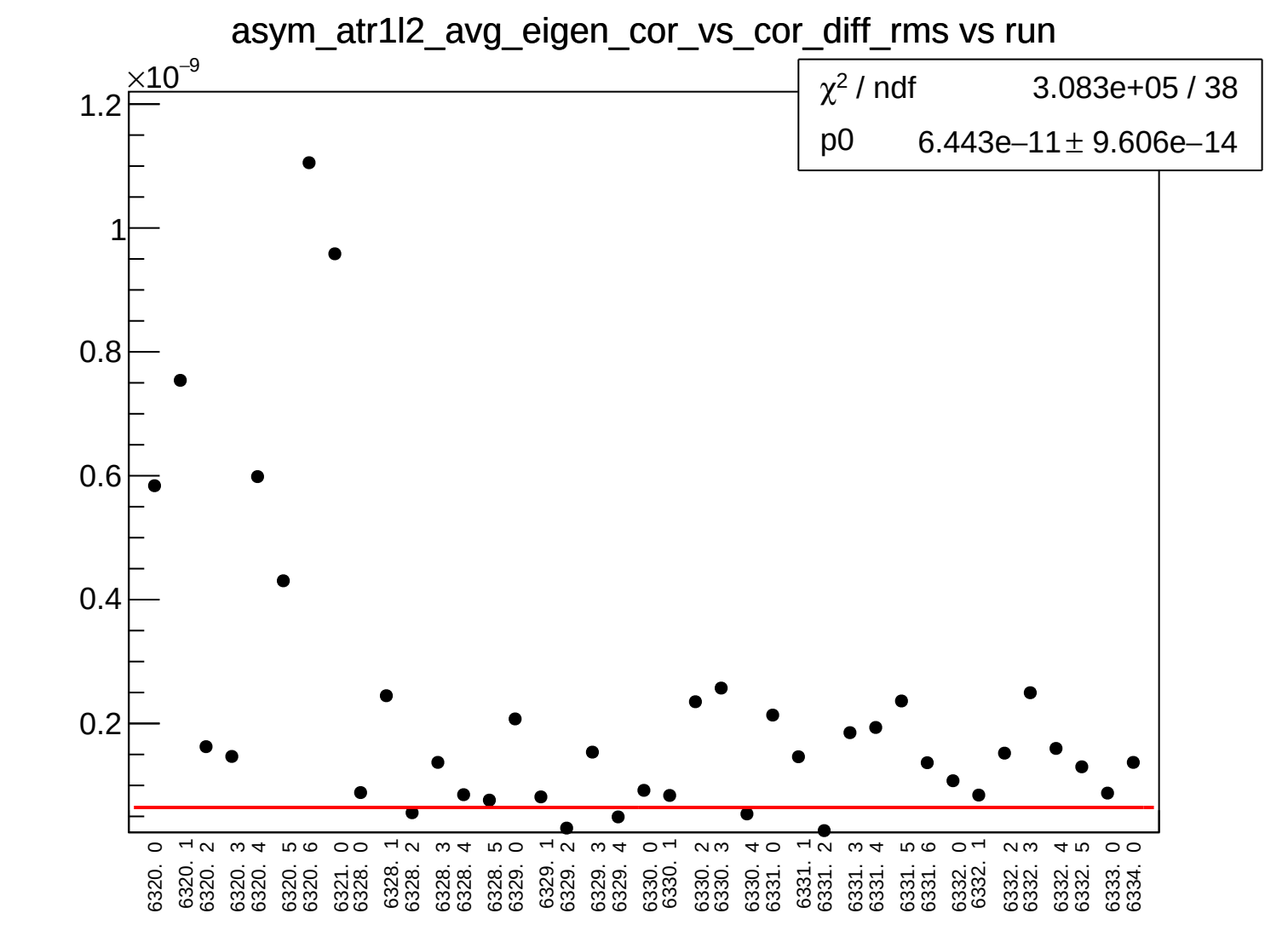

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.74 / 38
p0 0.2248 ± 0.3731
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 359.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.005556
Std Dev 0.9437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

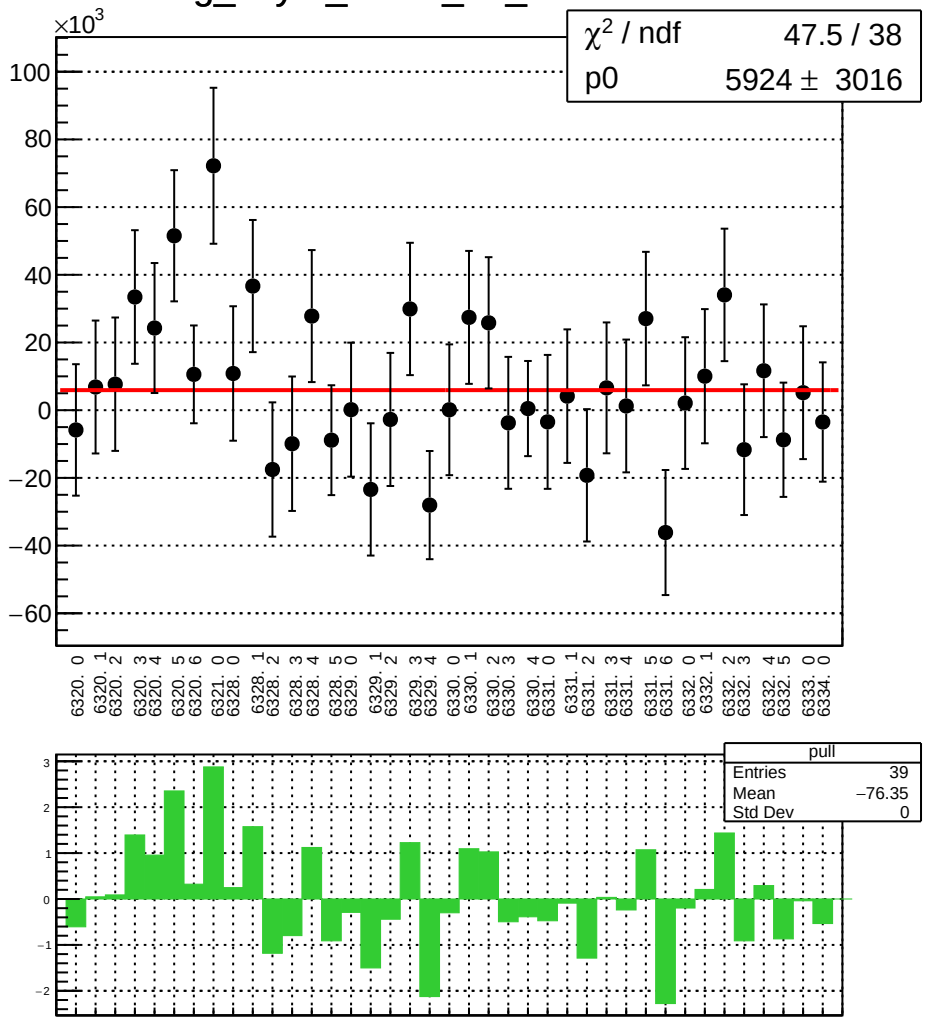

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.41e+04 / 38
p0 227.6 ± 0.2638
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

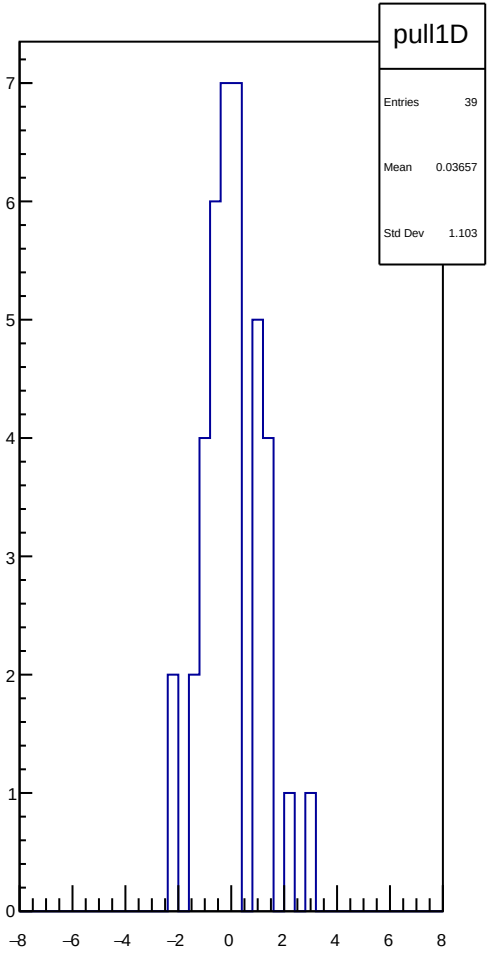

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.74 / 38
p0 0.2248 ± 0.3731
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 359.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.005556
Std Dev 0.9437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

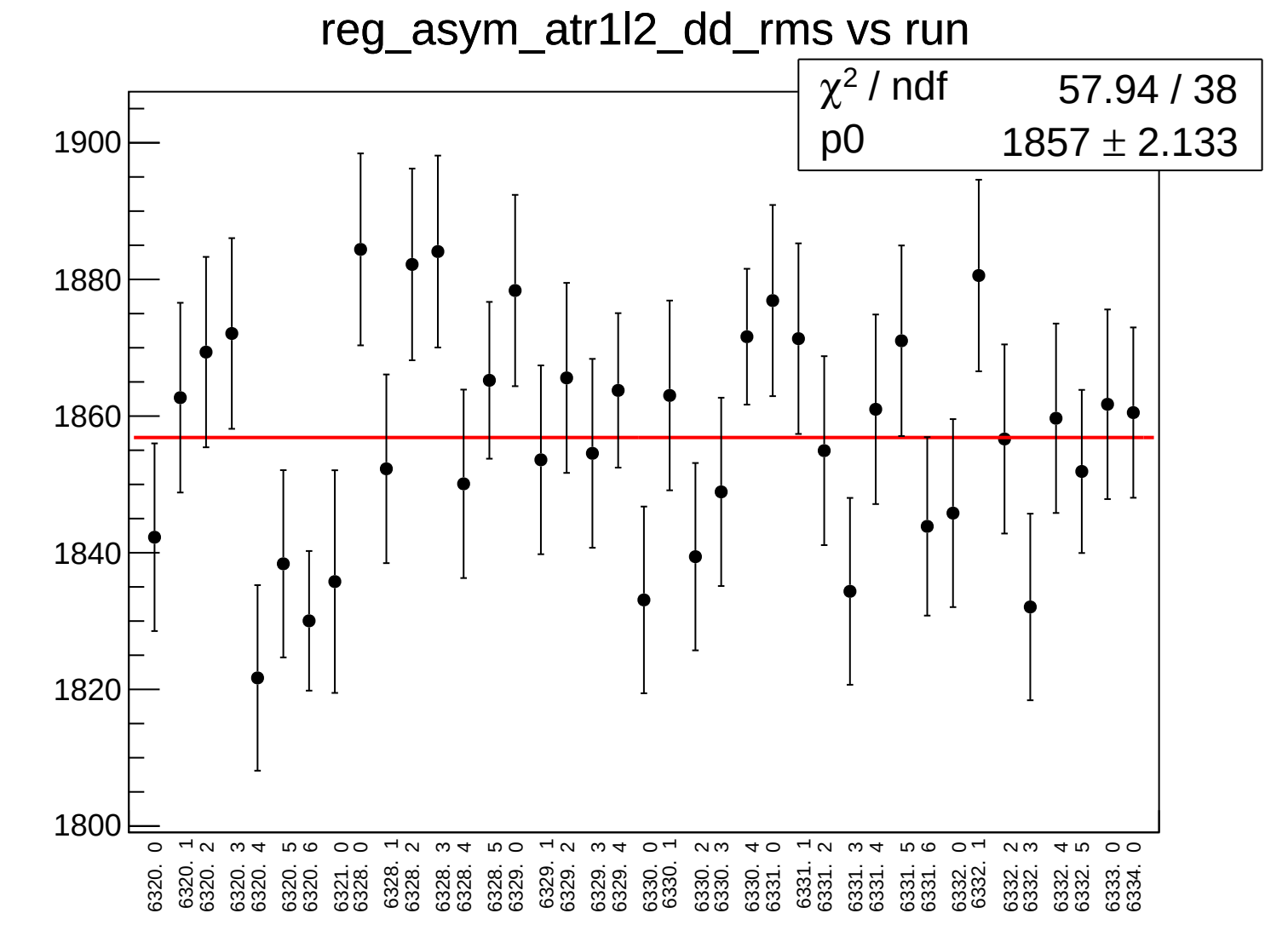

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.41e+04 / 38
p0 227.6 ± 0.2638
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

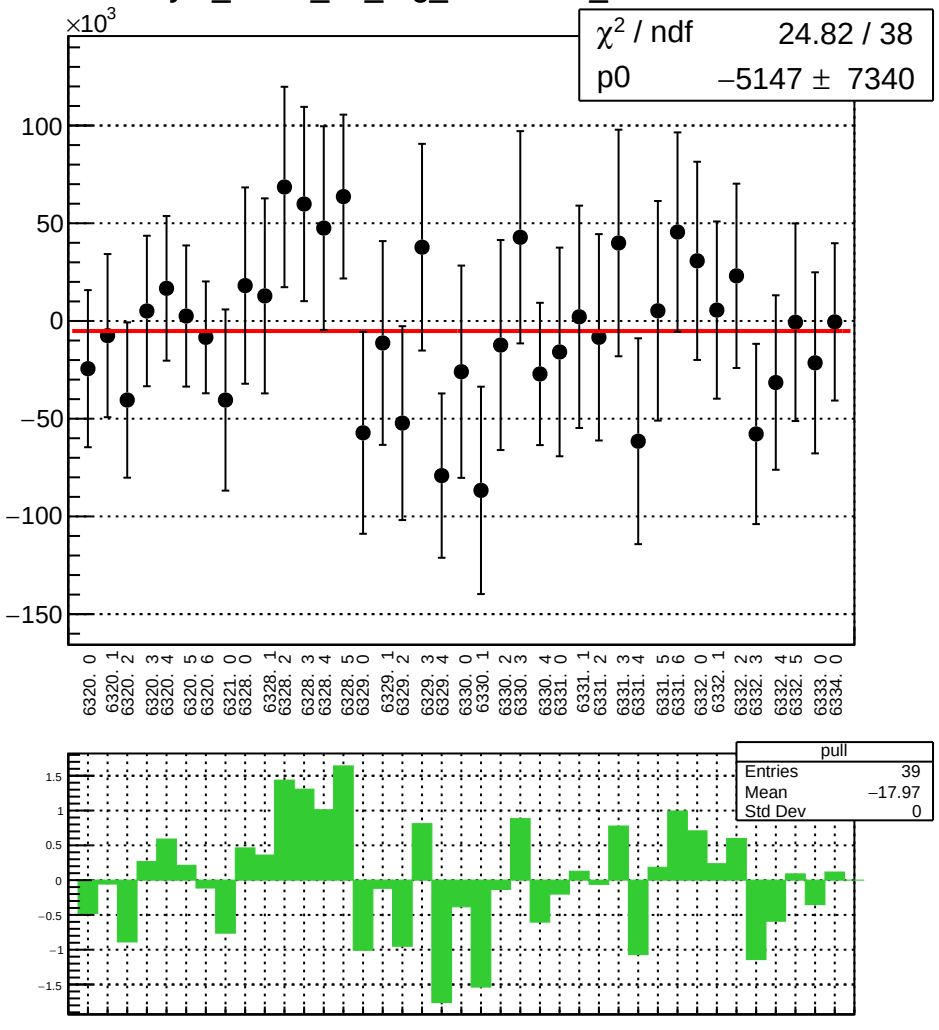

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.76 / 38
p0 1.553e−13 ± 1.359e−13
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.49
Std Dev 9.867
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.08884
Std Dev 0.9534
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

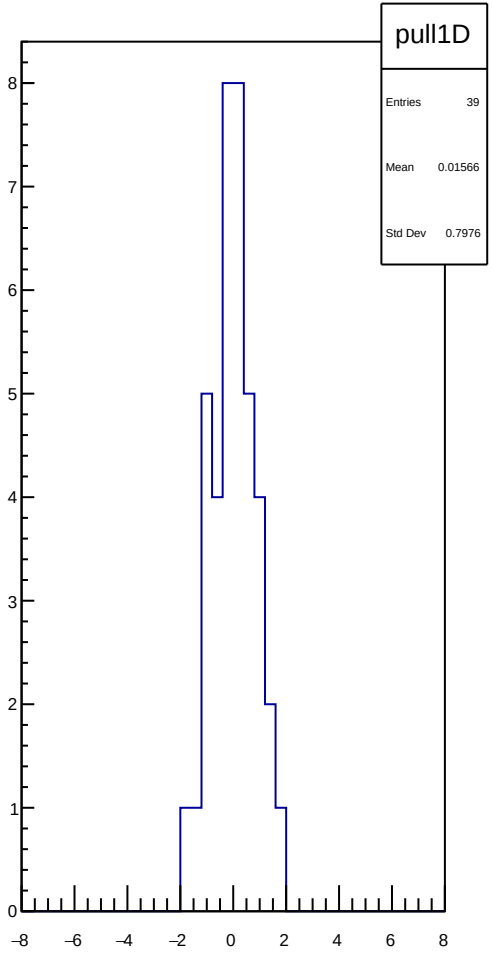

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.083e+05 / 38
p0 6.443e−11 ± 9.606e−14
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

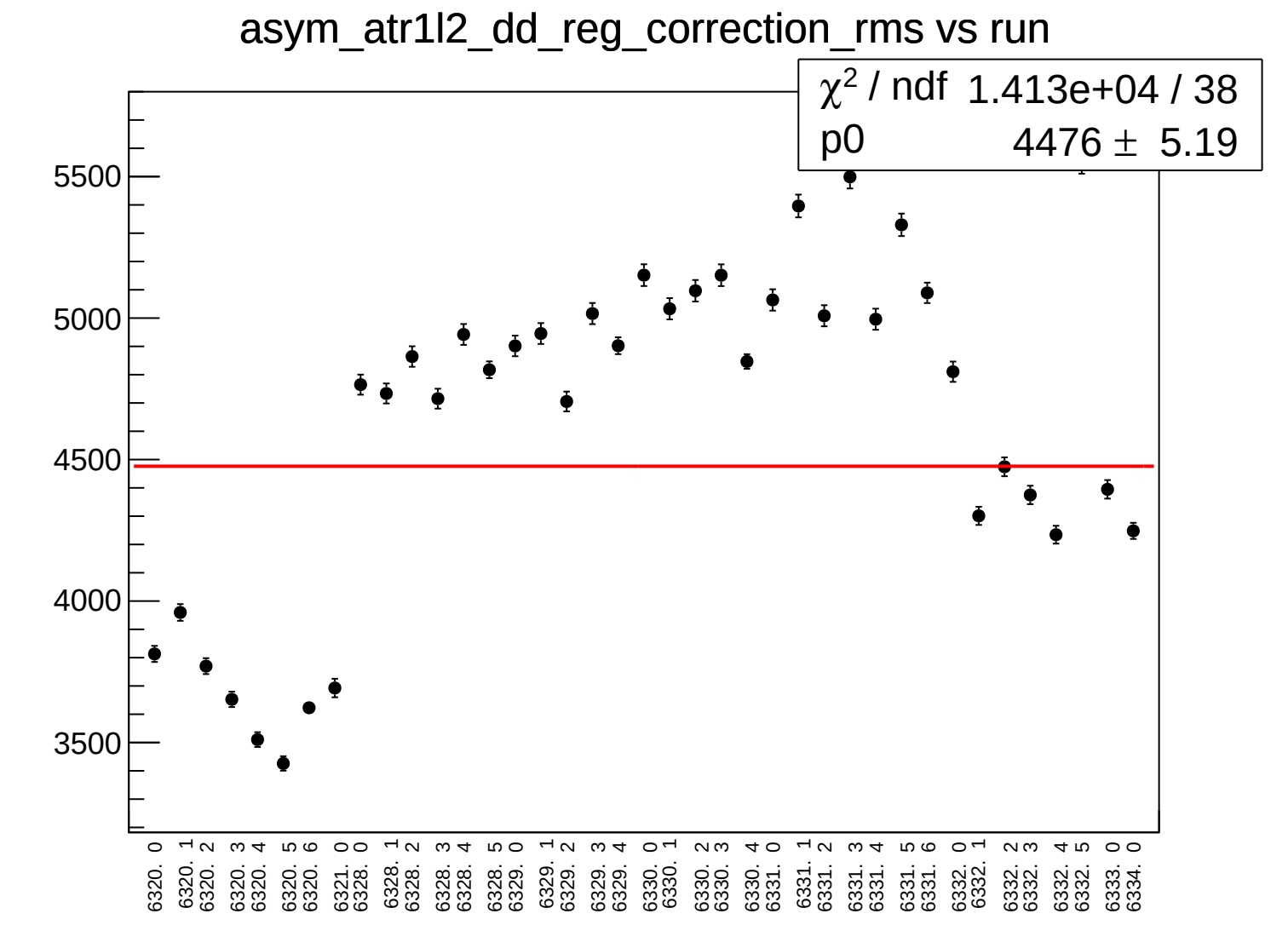

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 47.5 / 38
p0 5924 ± 3016
×10³
pull
Entries 39
Mean −76.35
Std Dev 0

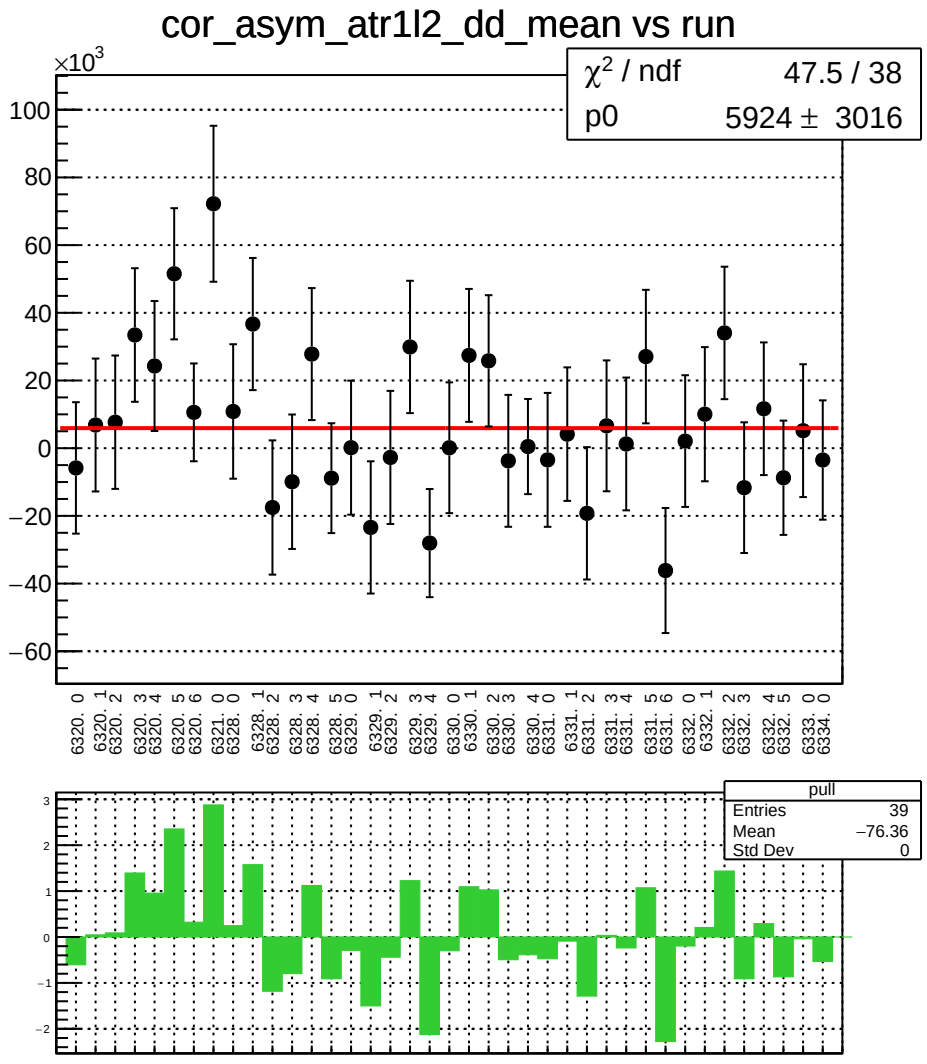

pull1D
Entries 39
Mean 0.03657
Std Dev 1.103

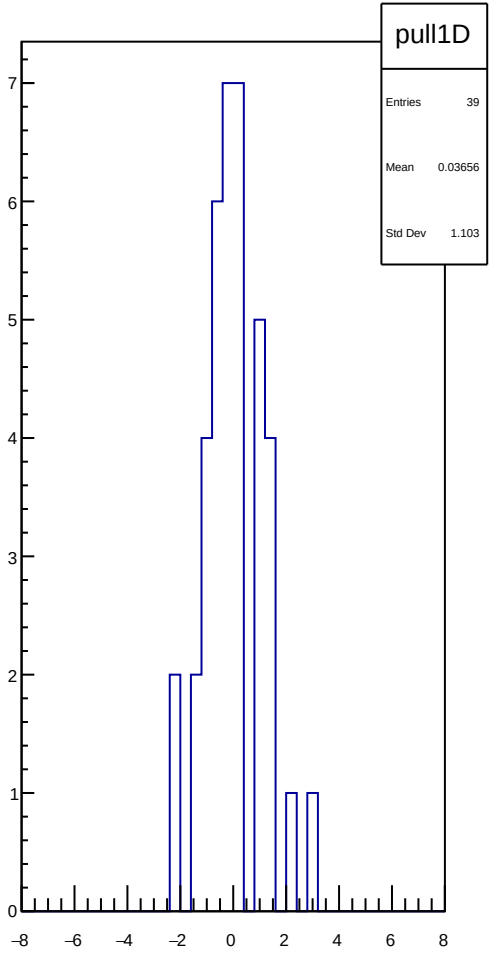

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 57.94 / 38
p0 1857 ± 2.133
1900
1880
1860
1840
1820
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

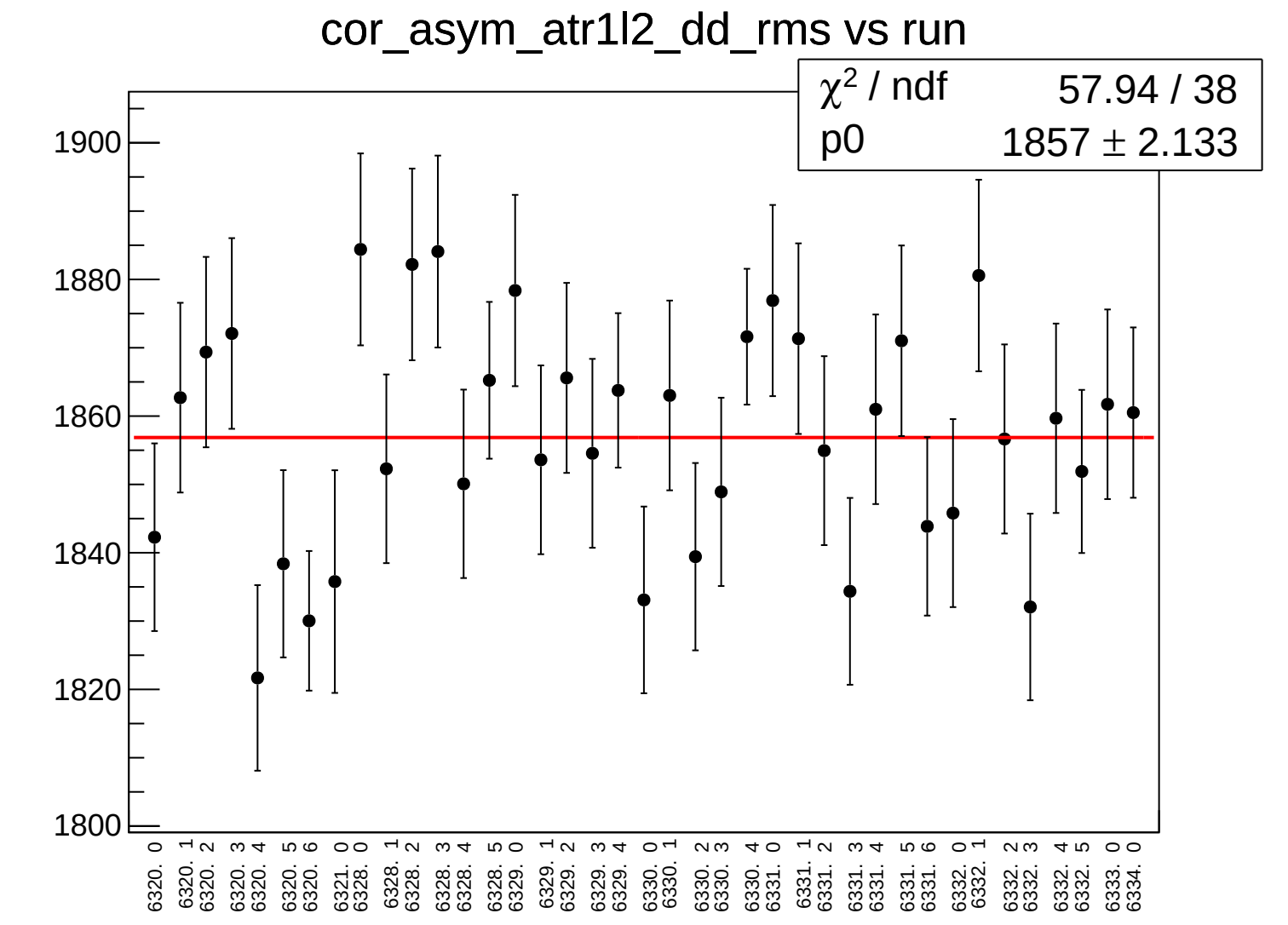

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.82 / 38
p0 −5147 ± 7340
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

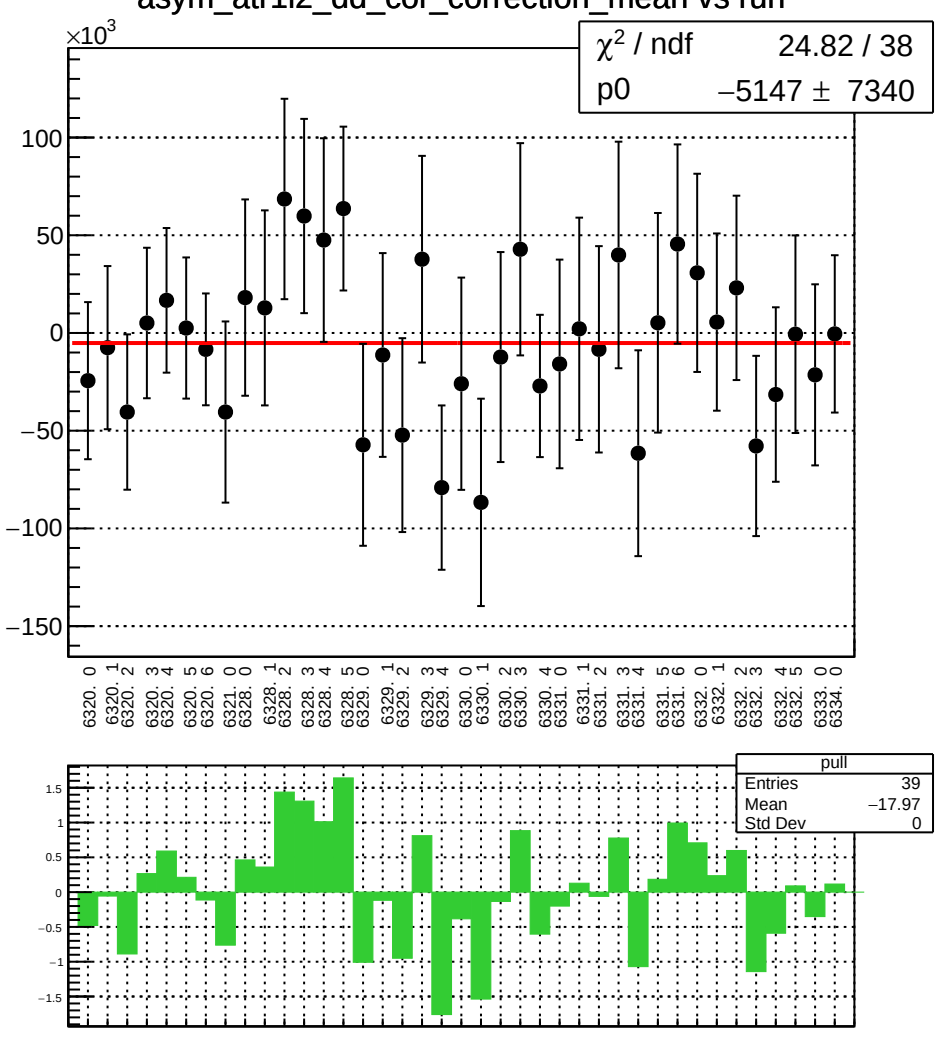

pull1D
Entries 39
Mean 0.01566
Std Dev 0.7976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

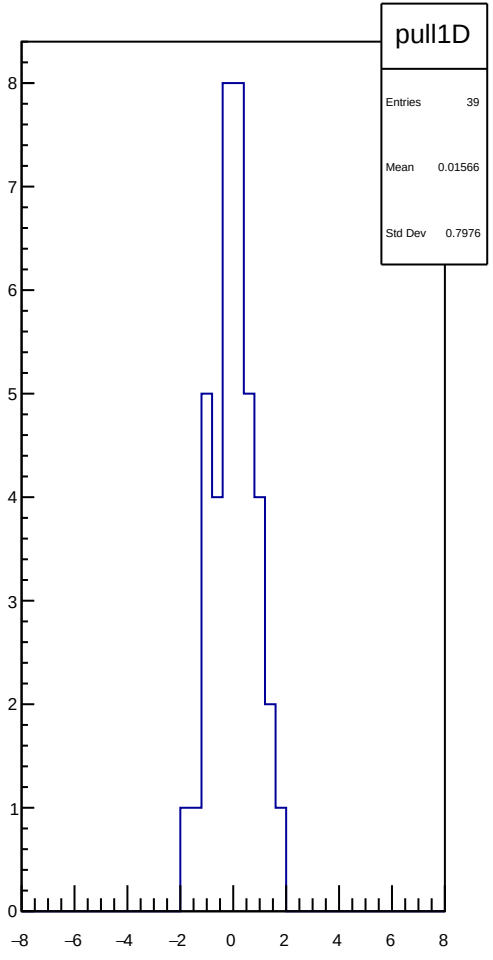

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.413e+04 / 38
p0 4476 ± 5.19
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

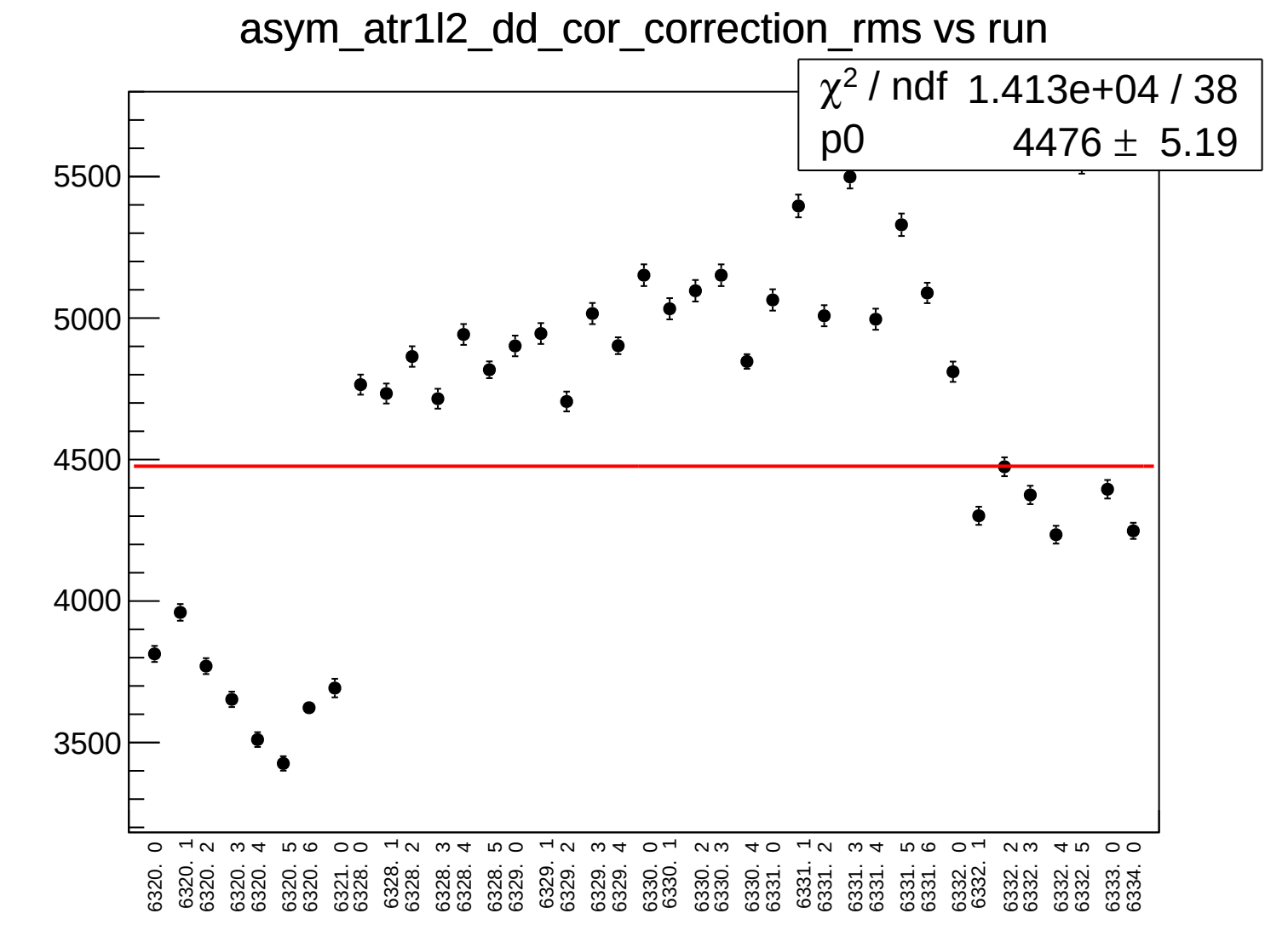

cor_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 47.5 / 38
p0 5924 ± 3016
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −76.36
Std Dev 0
3
2
1
0
−1
−2

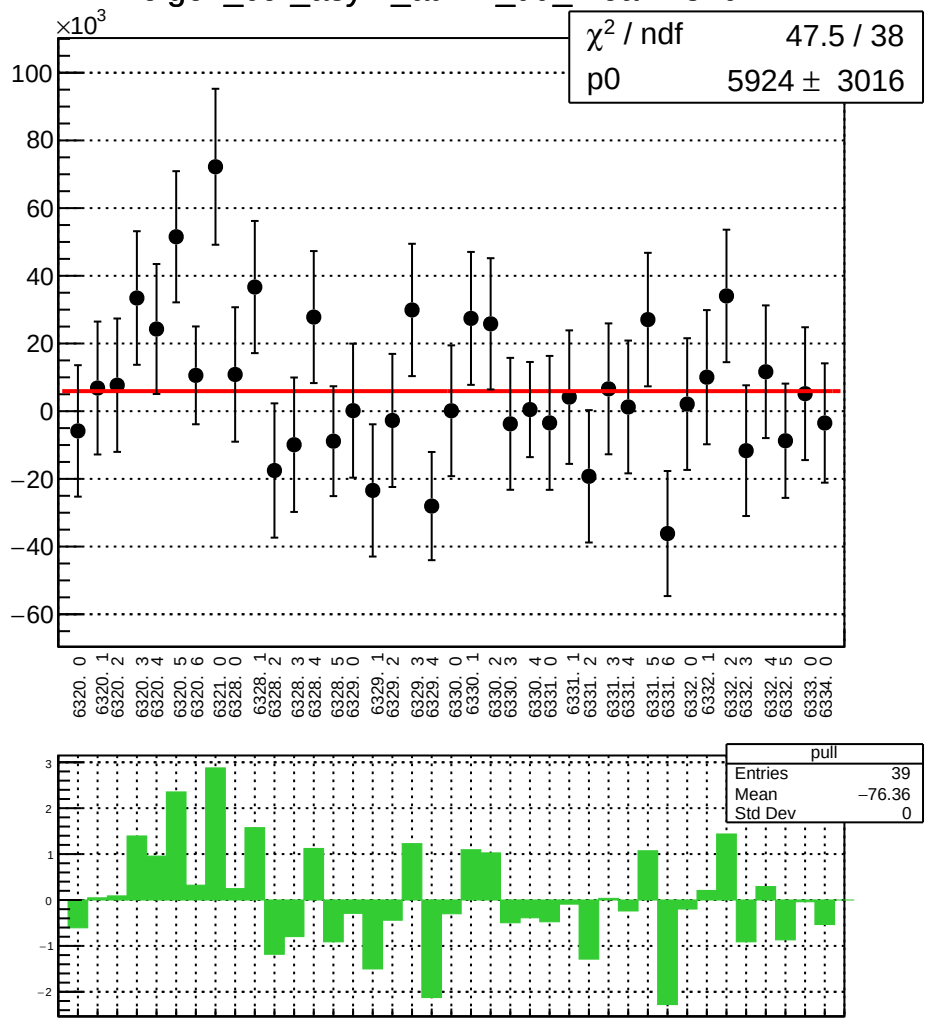

pull1D
Entries 39
Mean 0.03656
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

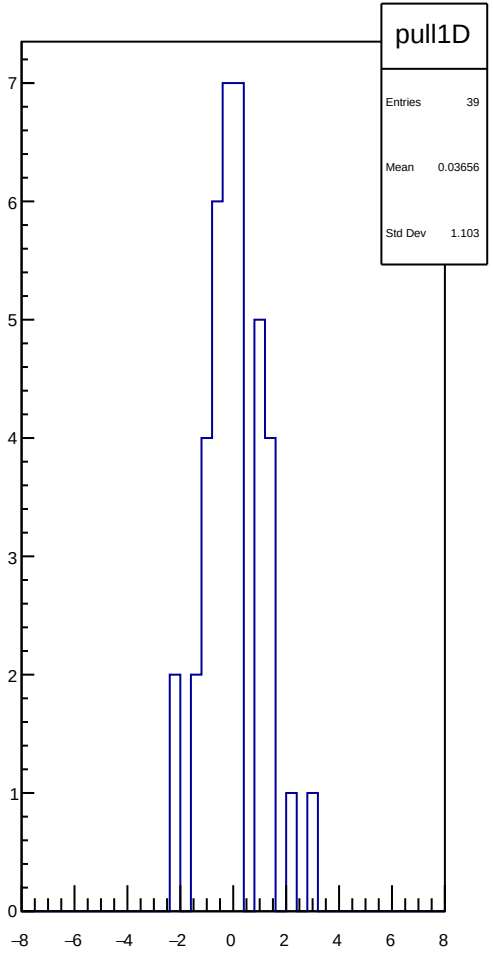

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 57.94 / 38
p0 1857 ± 2.133
1900
1880
1860
1840
1820
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

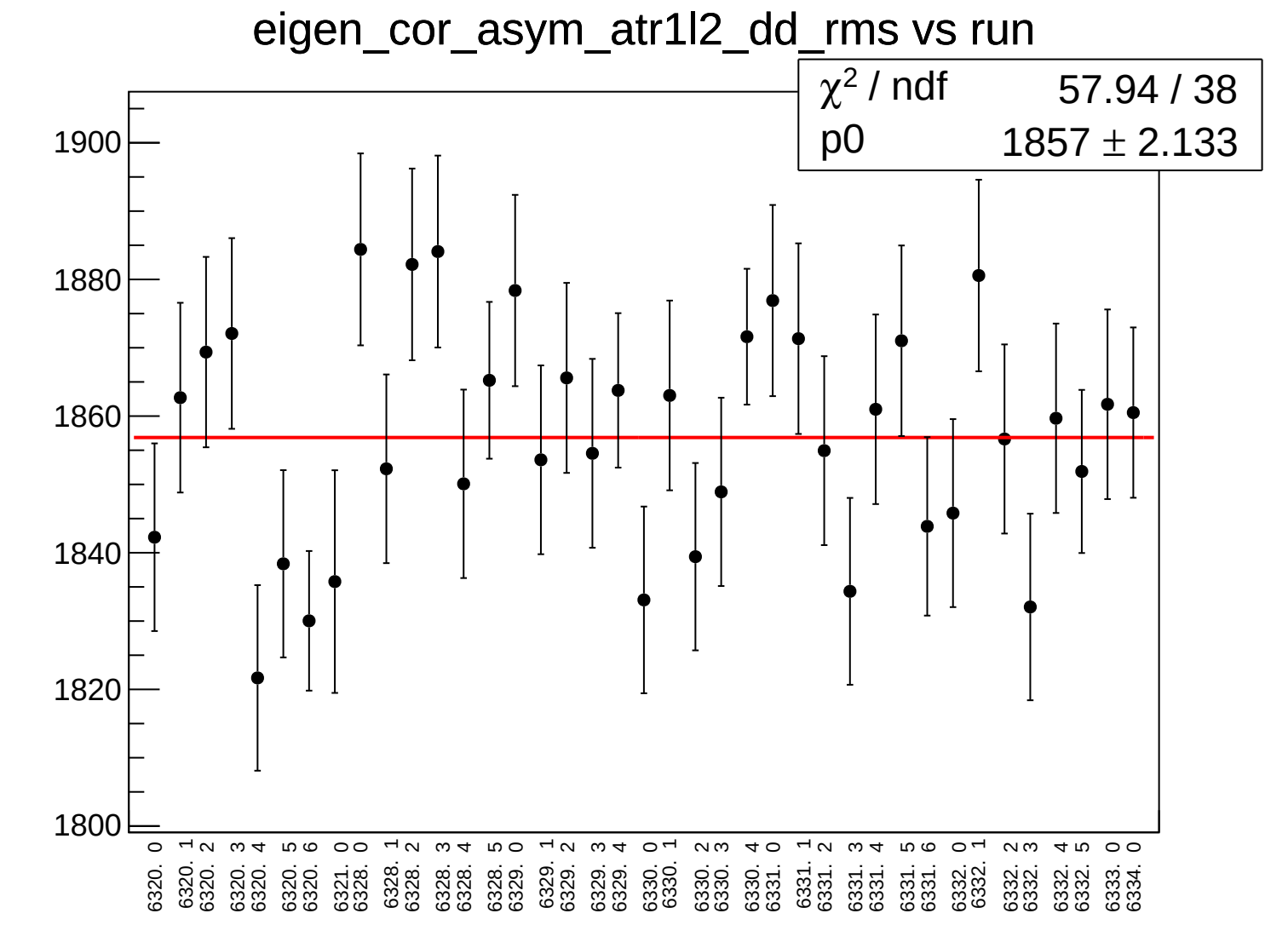

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.82 / 38
p0 −5147 ± 7340
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01566
Std Dev 0.7976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.413e+04 / 38
p0 4476 ± 5.19
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 47.5 / 38
p0 5924 ± 3016
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −76.36
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03656
Std Dev 1.103
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 57.94 / 38
p0 1857 ± 2.133
1900
1880
1860
1840
1820
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
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6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
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6331. 4
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6332. 0
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6332. 2
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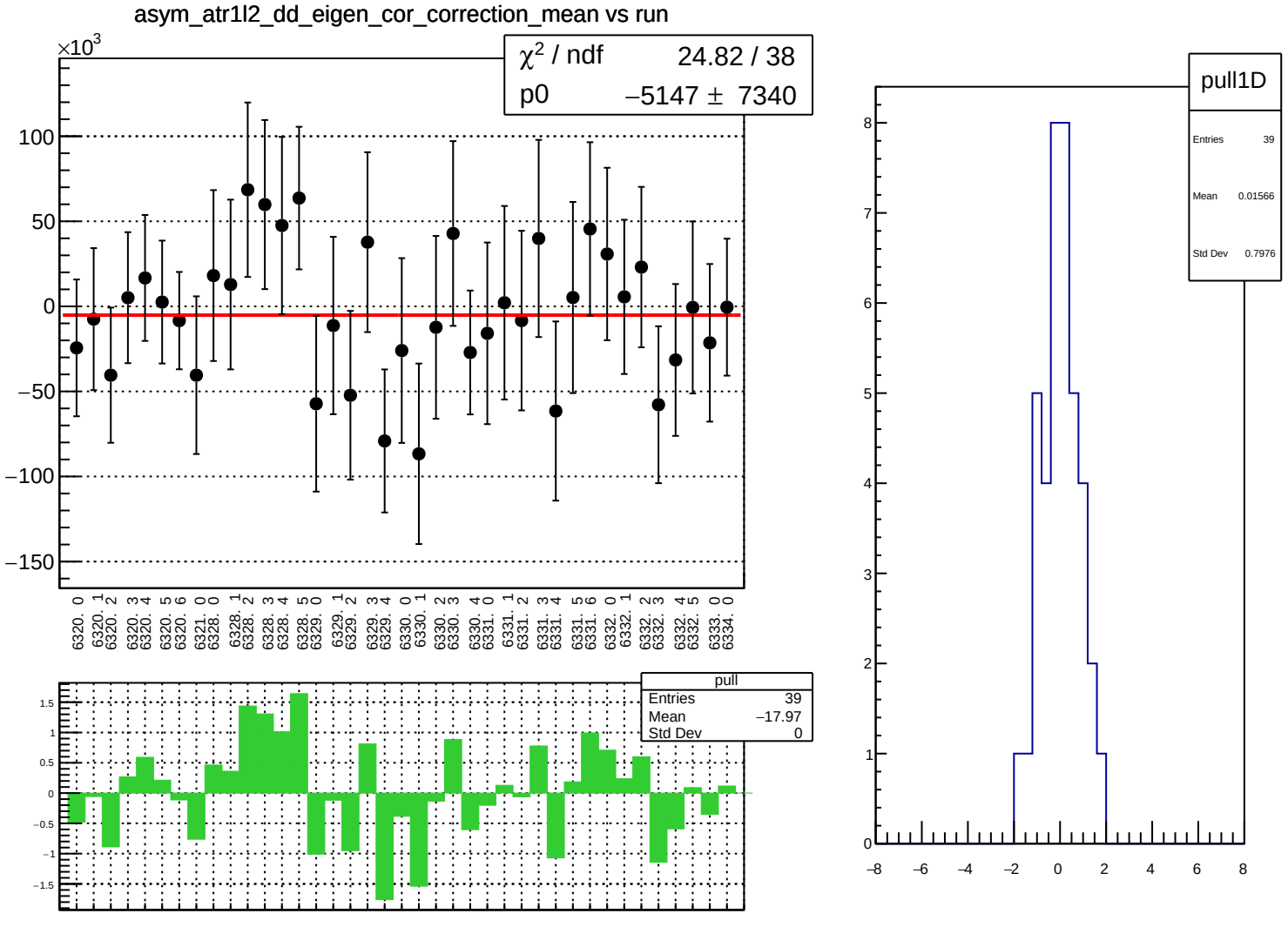
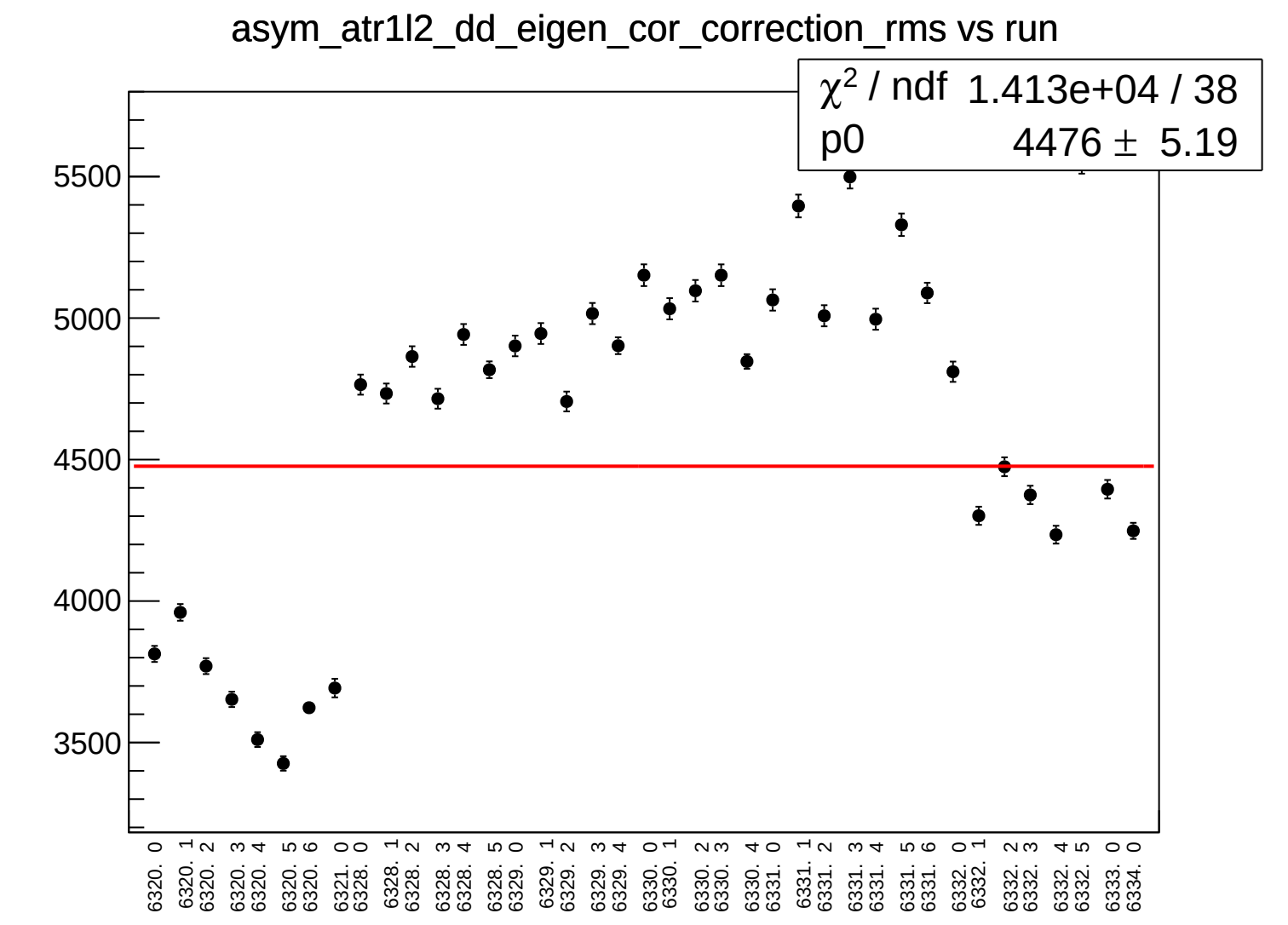
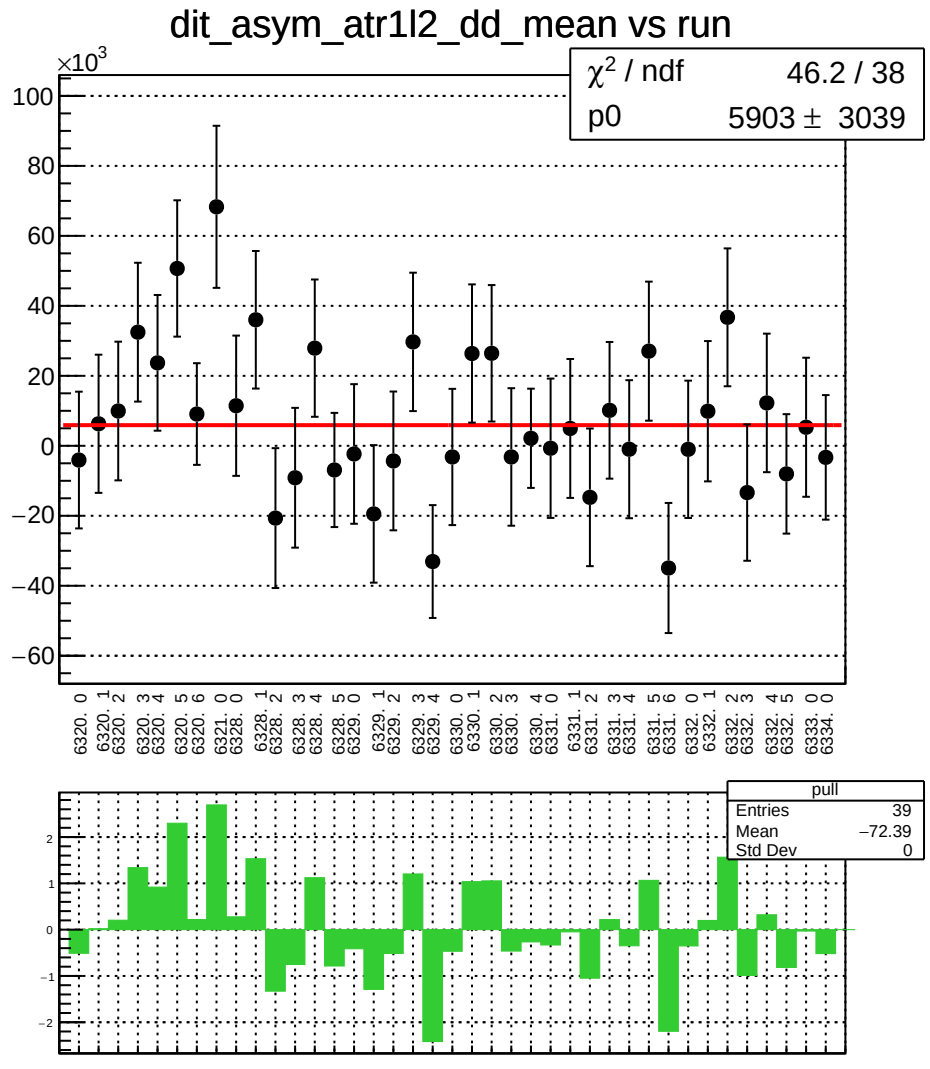
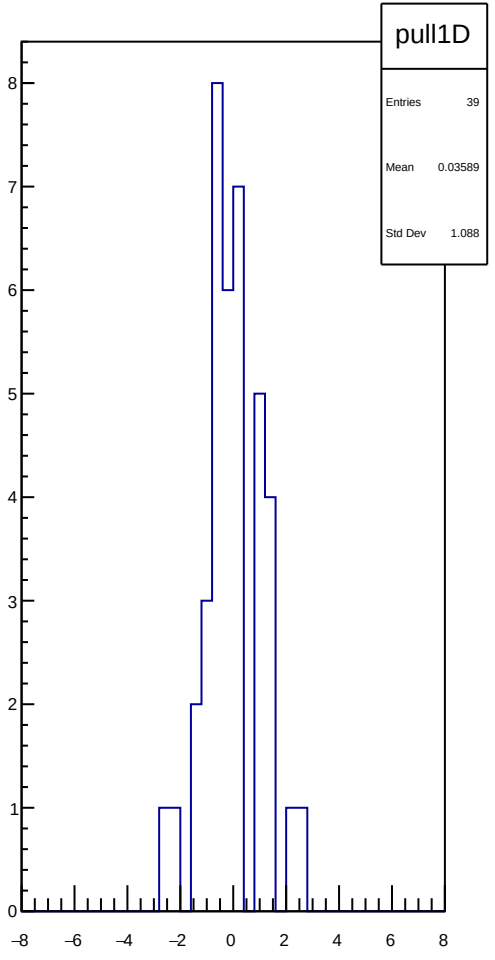
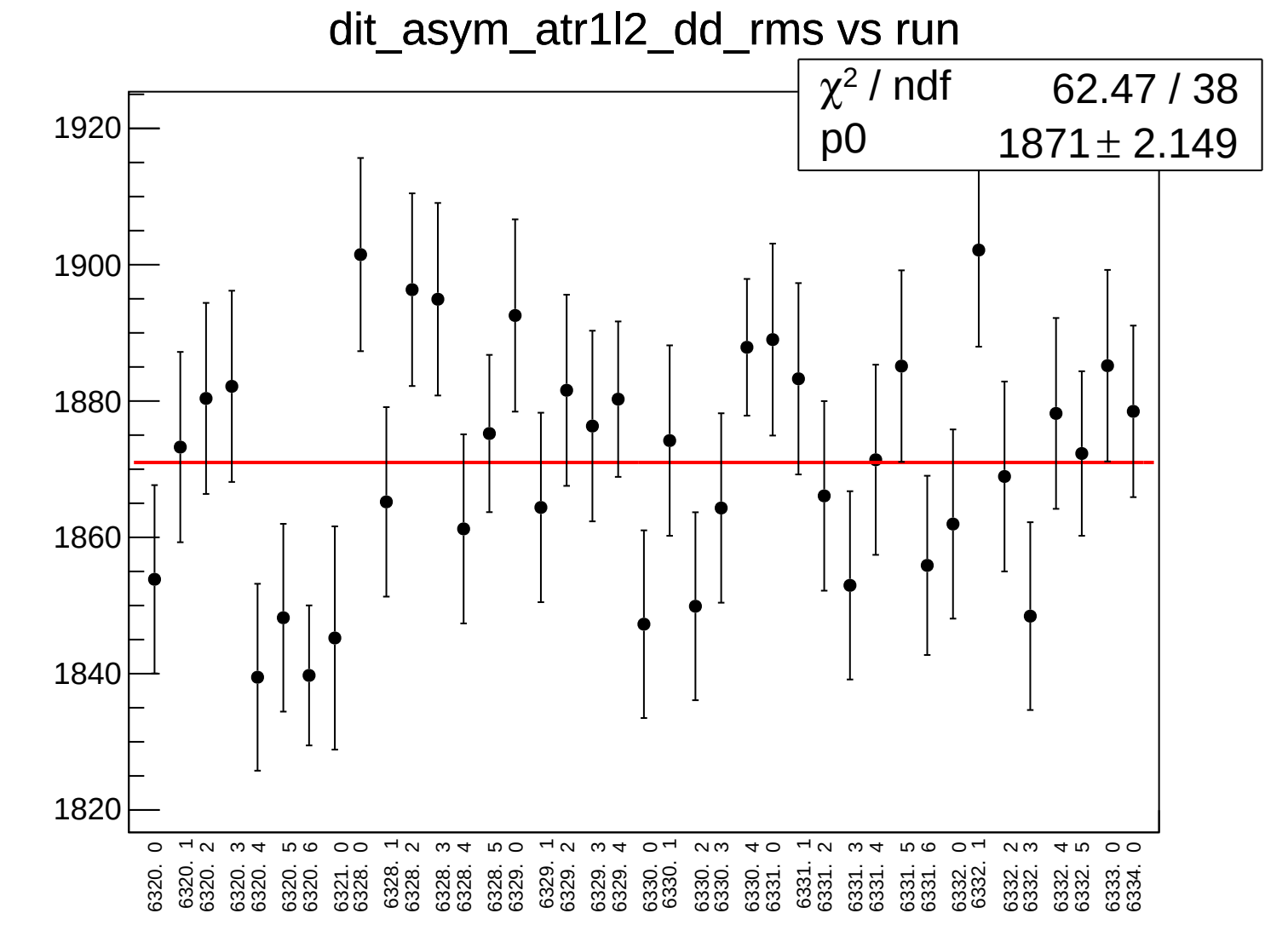
6334. 0

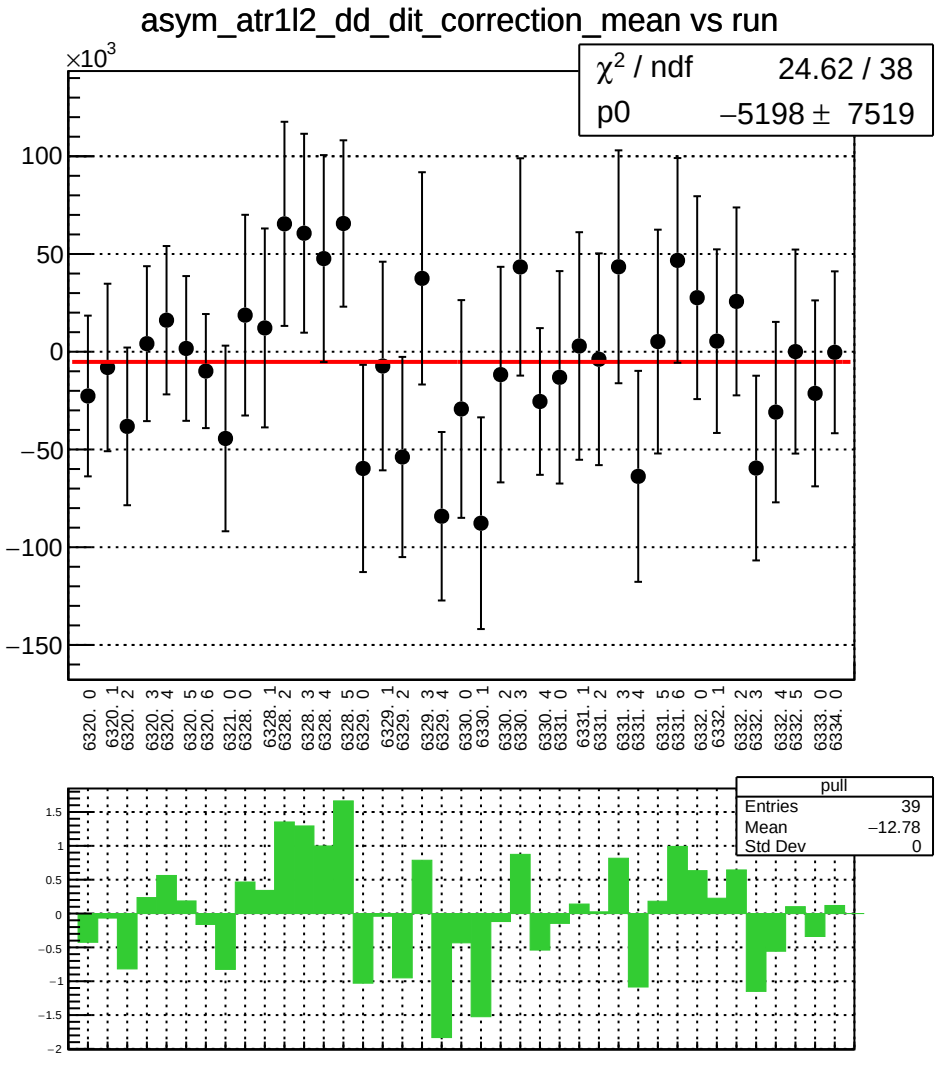

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 24.82 / 38
p0 −5147 ± 7340
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01566
Std Dev 0.7976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

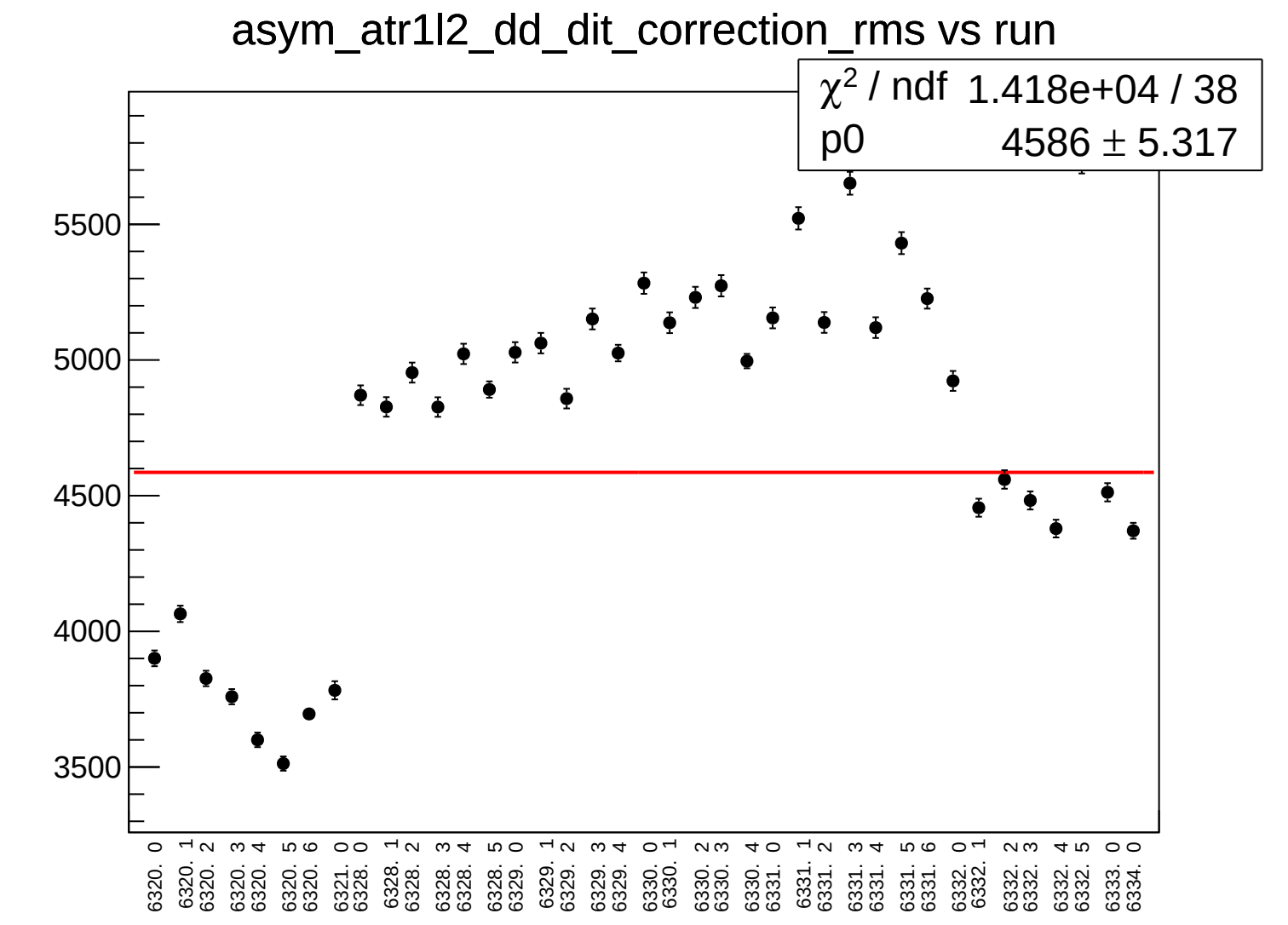

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.413e+04 / 38
p0 4476 ± 5.19
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

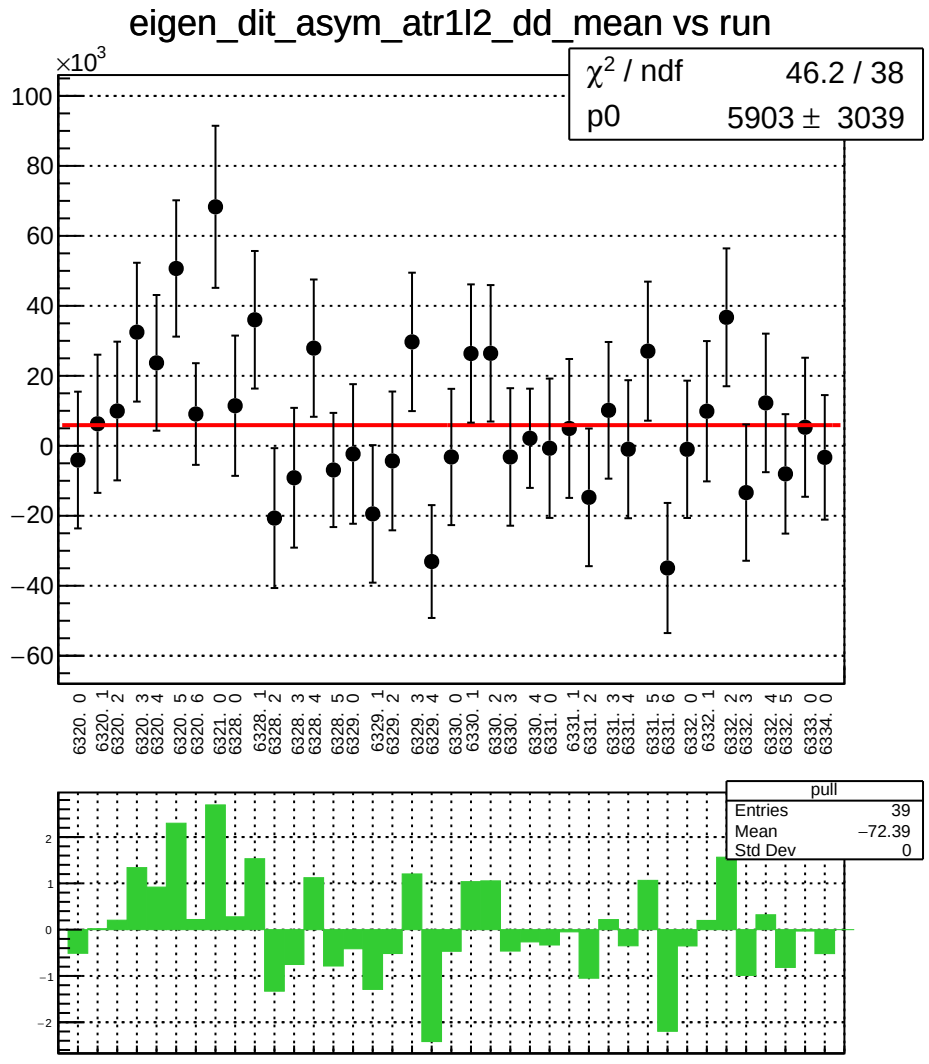

dit_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 46.2 / 38
p0 5903 ± 3039
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −72.39
Std Dev 0
2
1
0
−1
−2

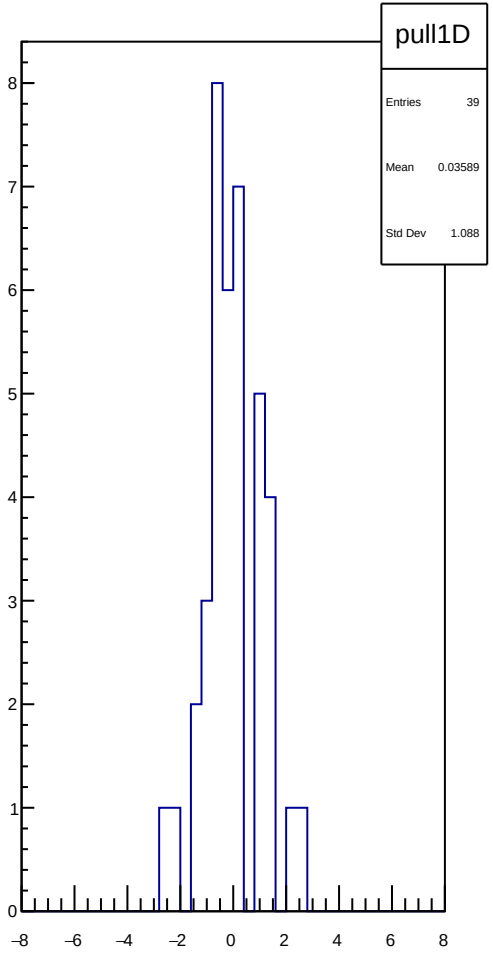

pull1D
Entries 39
Mean 0.03589
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

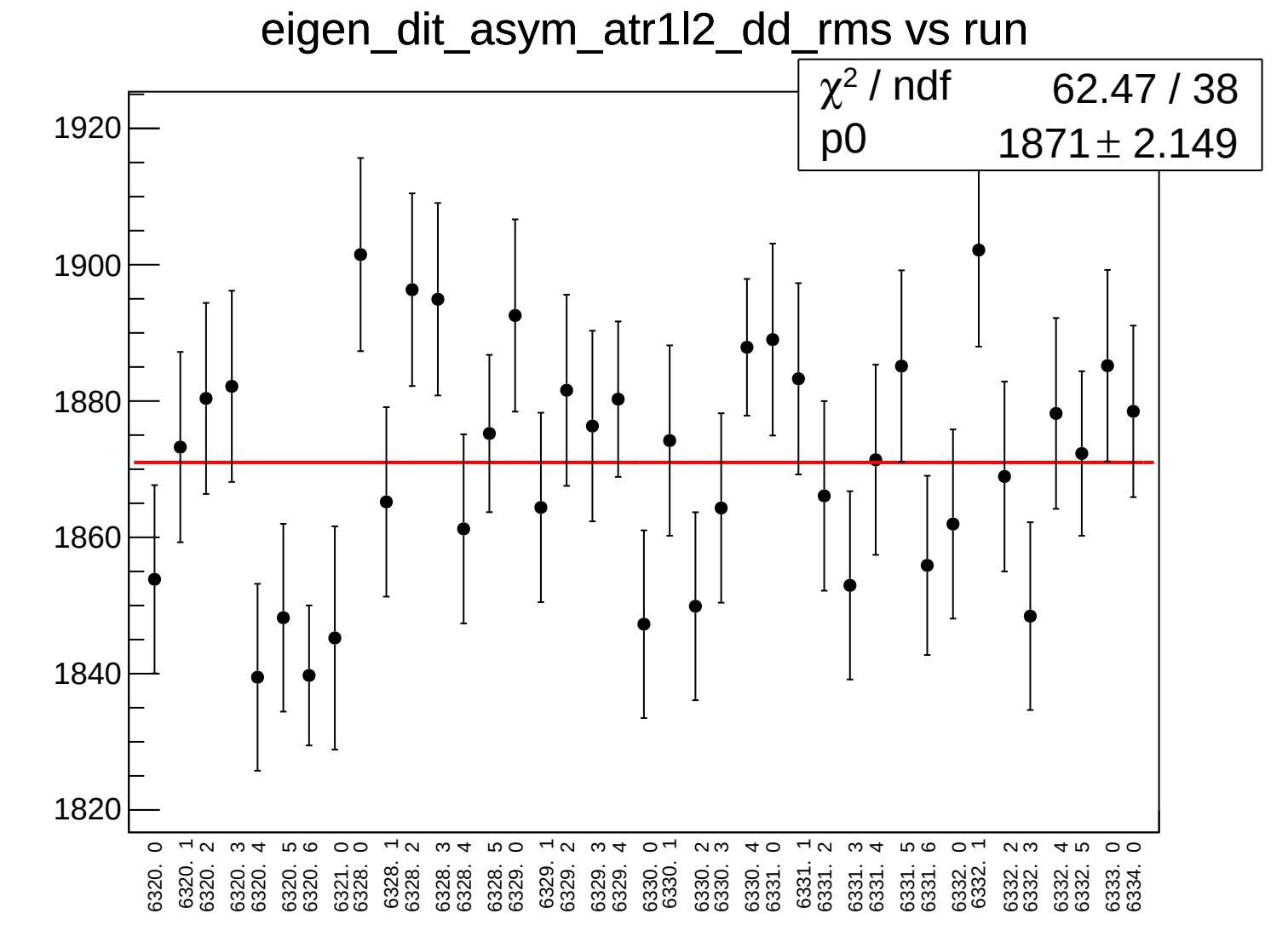

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 62.47 / 38
p0 1871 ± 2.149
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

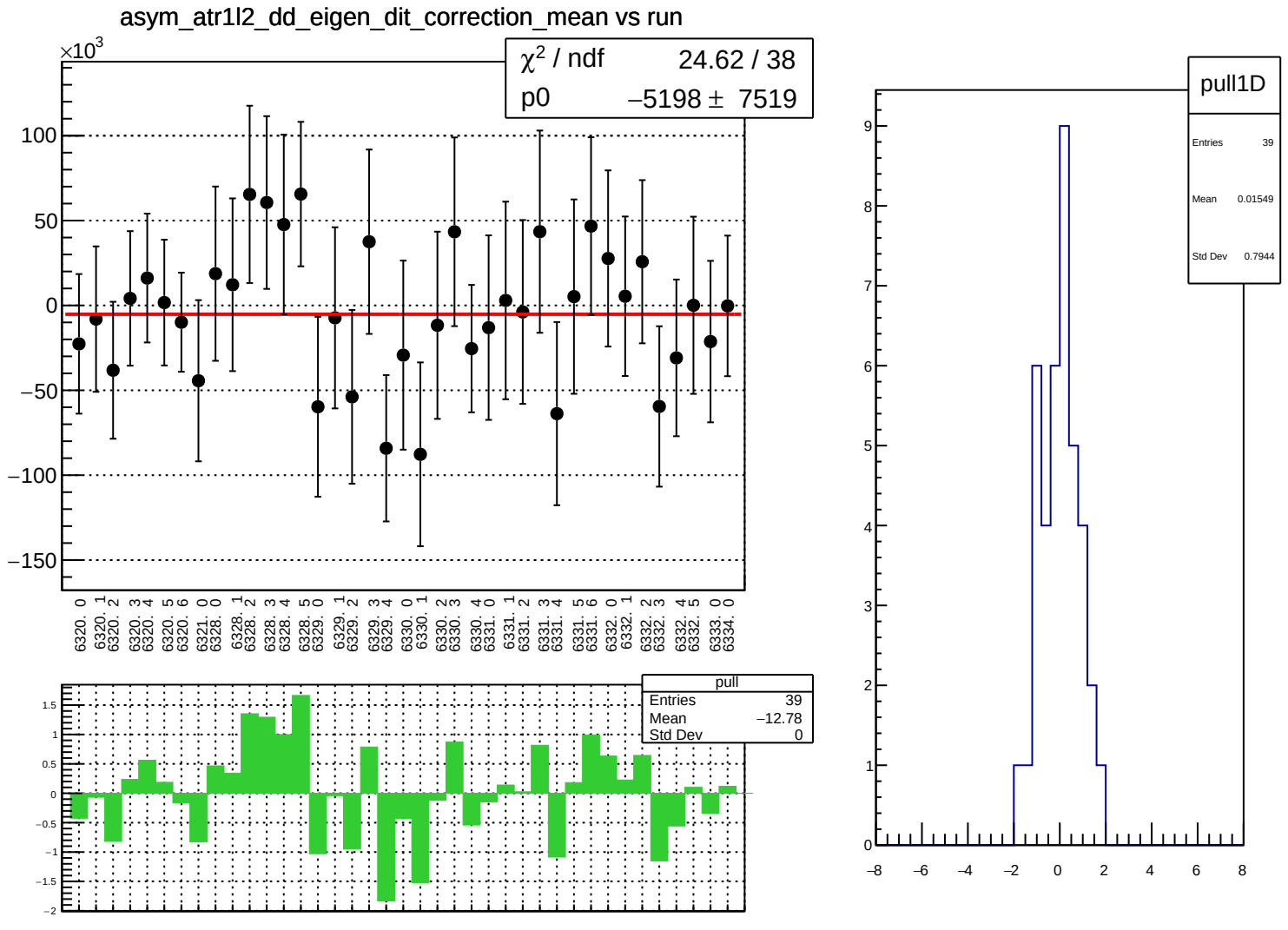

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.62 / 38
p0 −5198 ± 7519
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01549
Std Dev 0.7944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

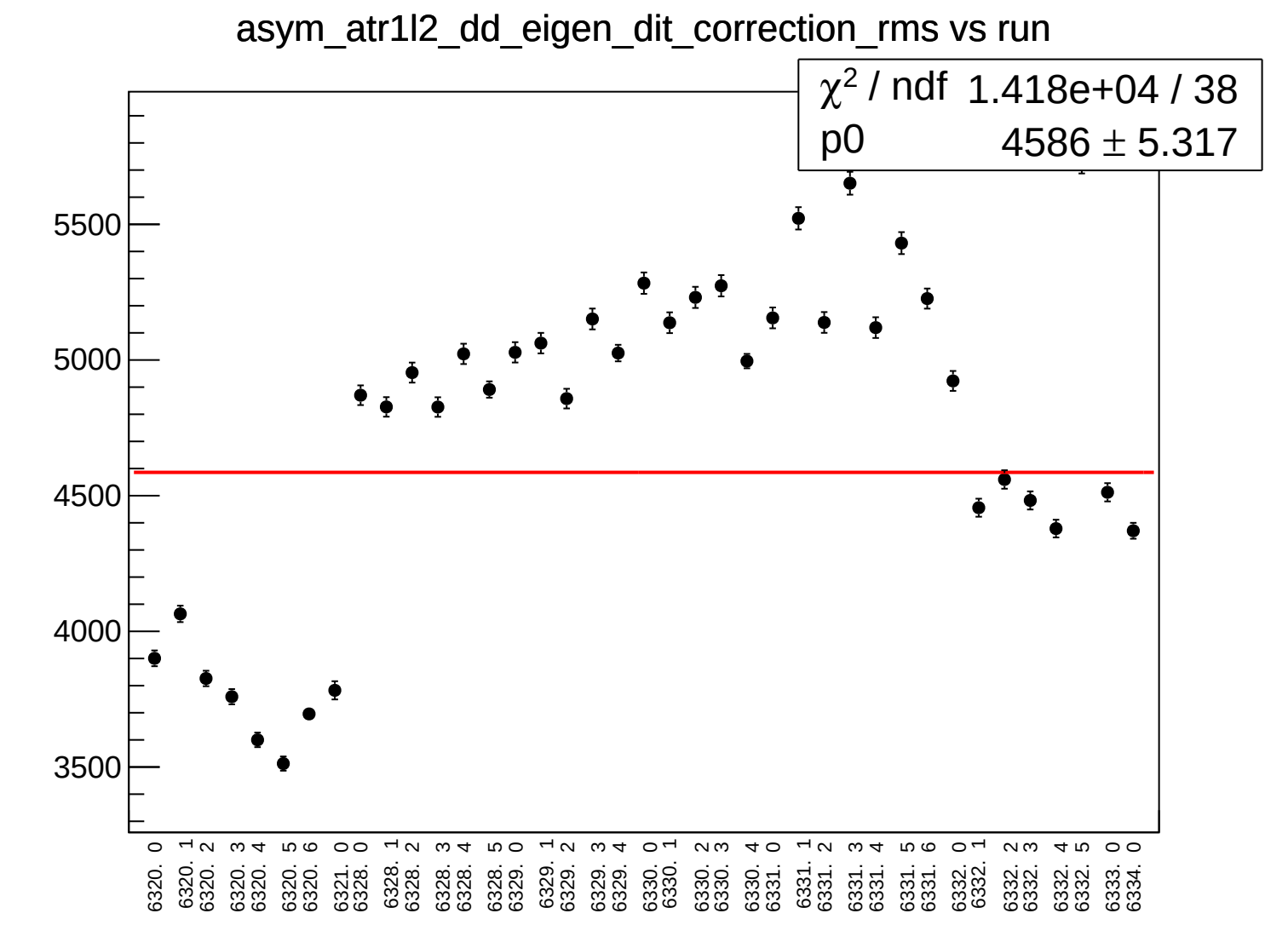

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 38
p0 4586 ± 5.317
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

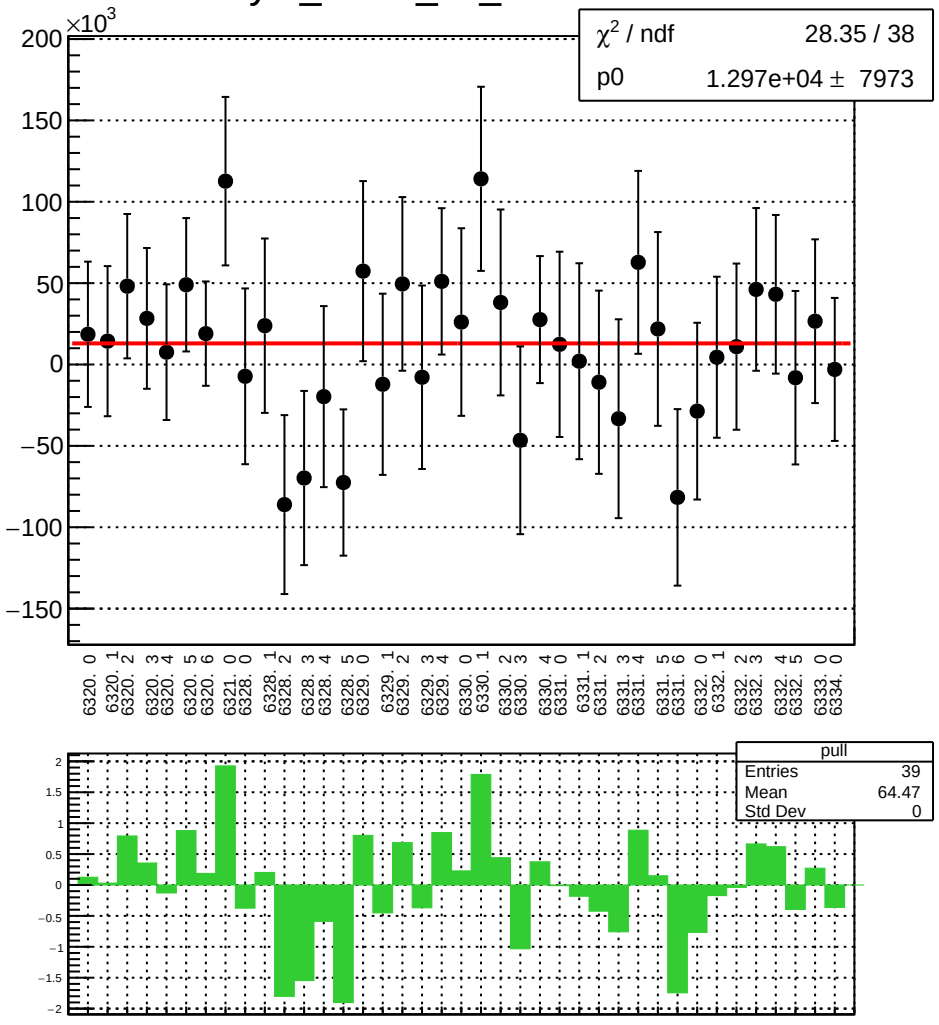

eigen_dit_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 46.2 / 38
p0 5903 ± 3039
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −72.39
Std Dev 0
2
1
0
−1
−2

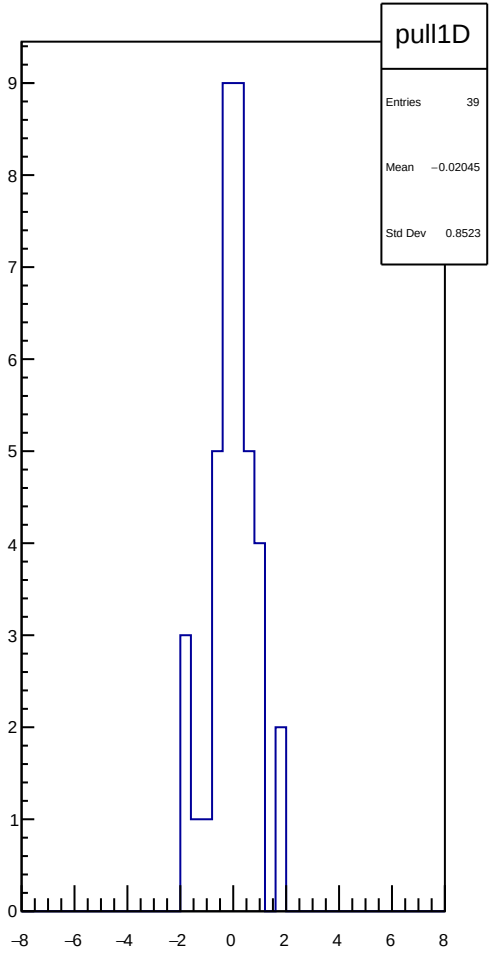

pull1D
Entries 39
Mean 0.03589
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

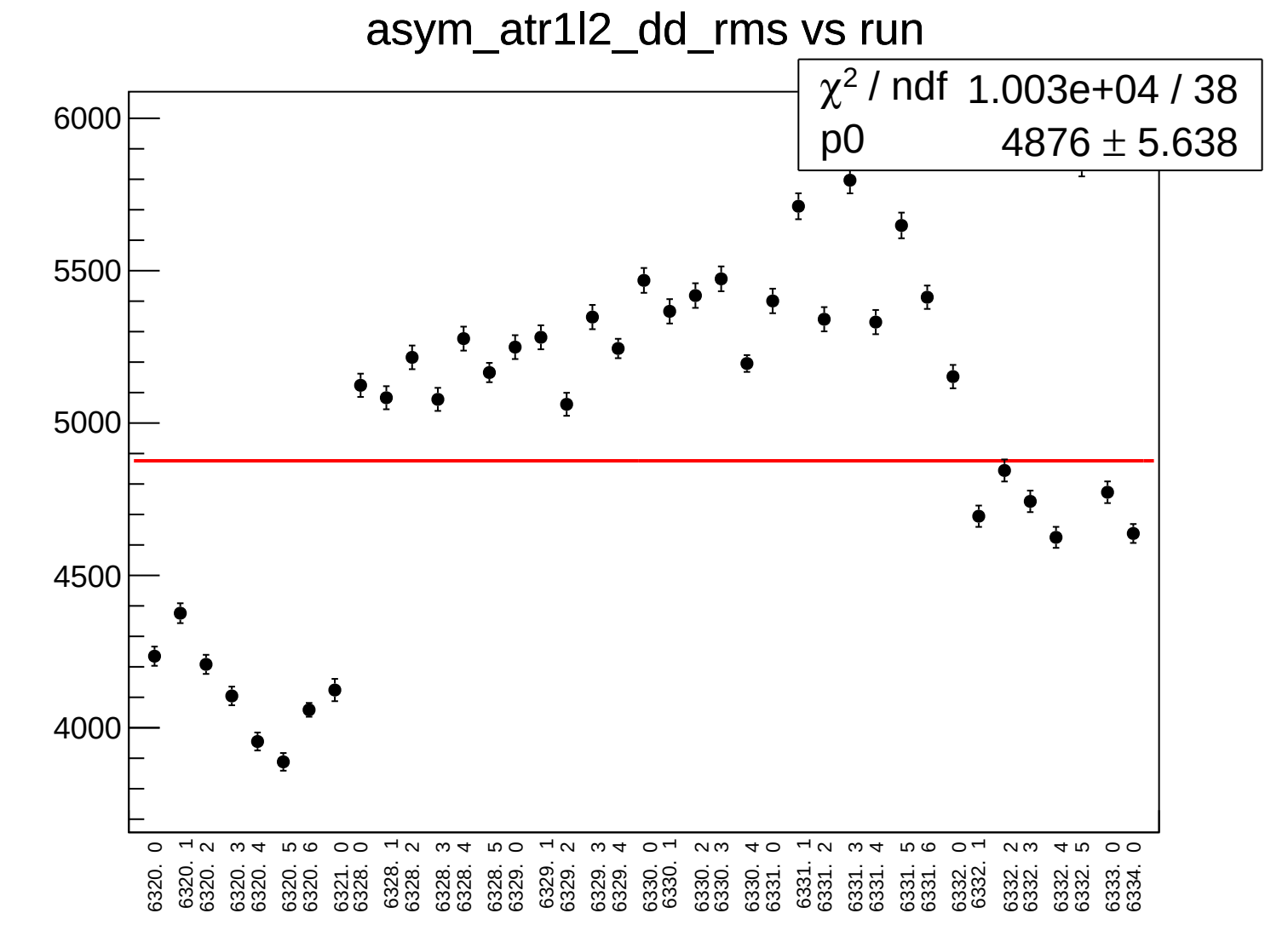

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 62.47 / 38
p0 1871 ± 2.149
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

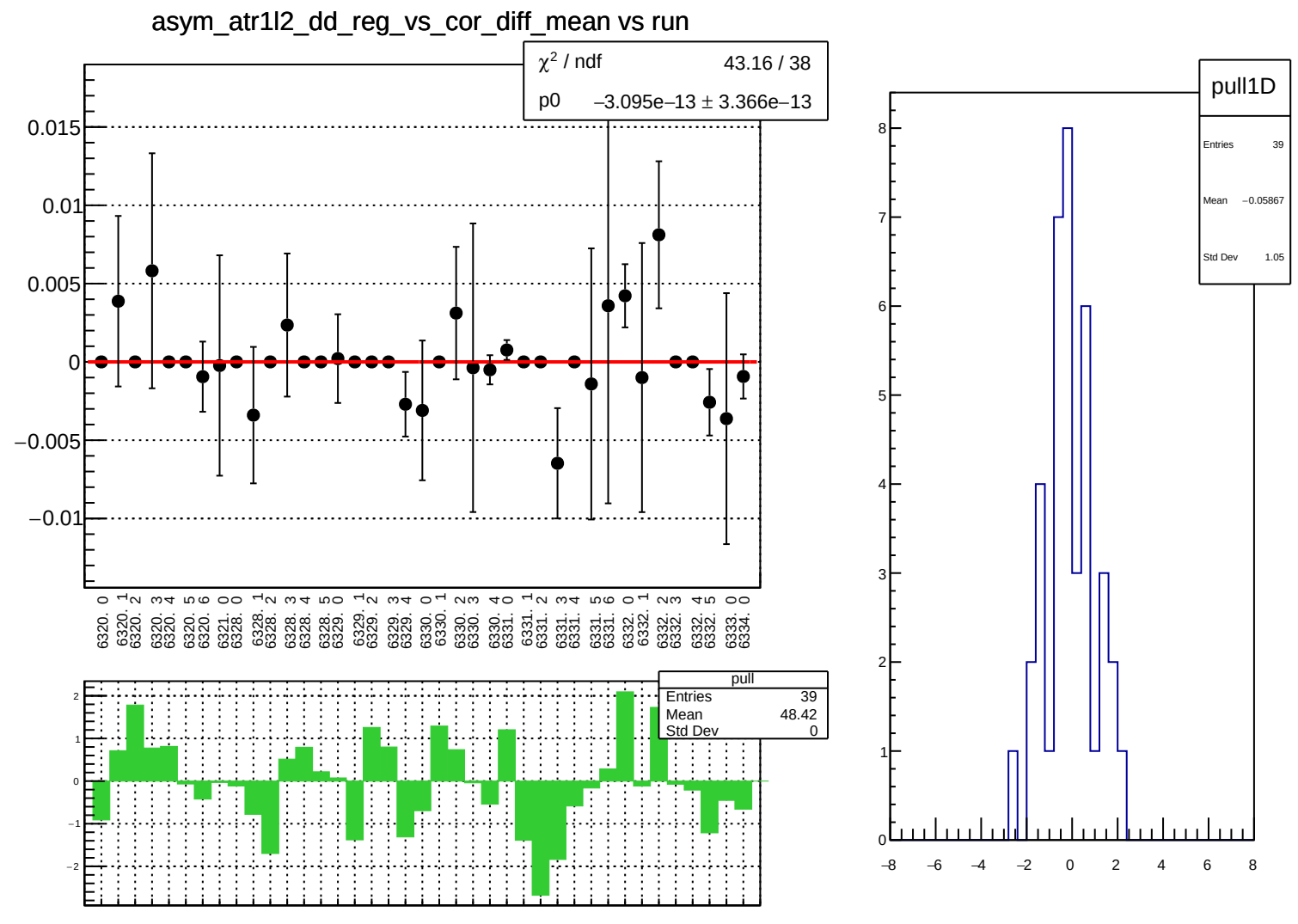

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.62 / 38
p0 −5198 ± 7519
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01549
Std Dev 0.7944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

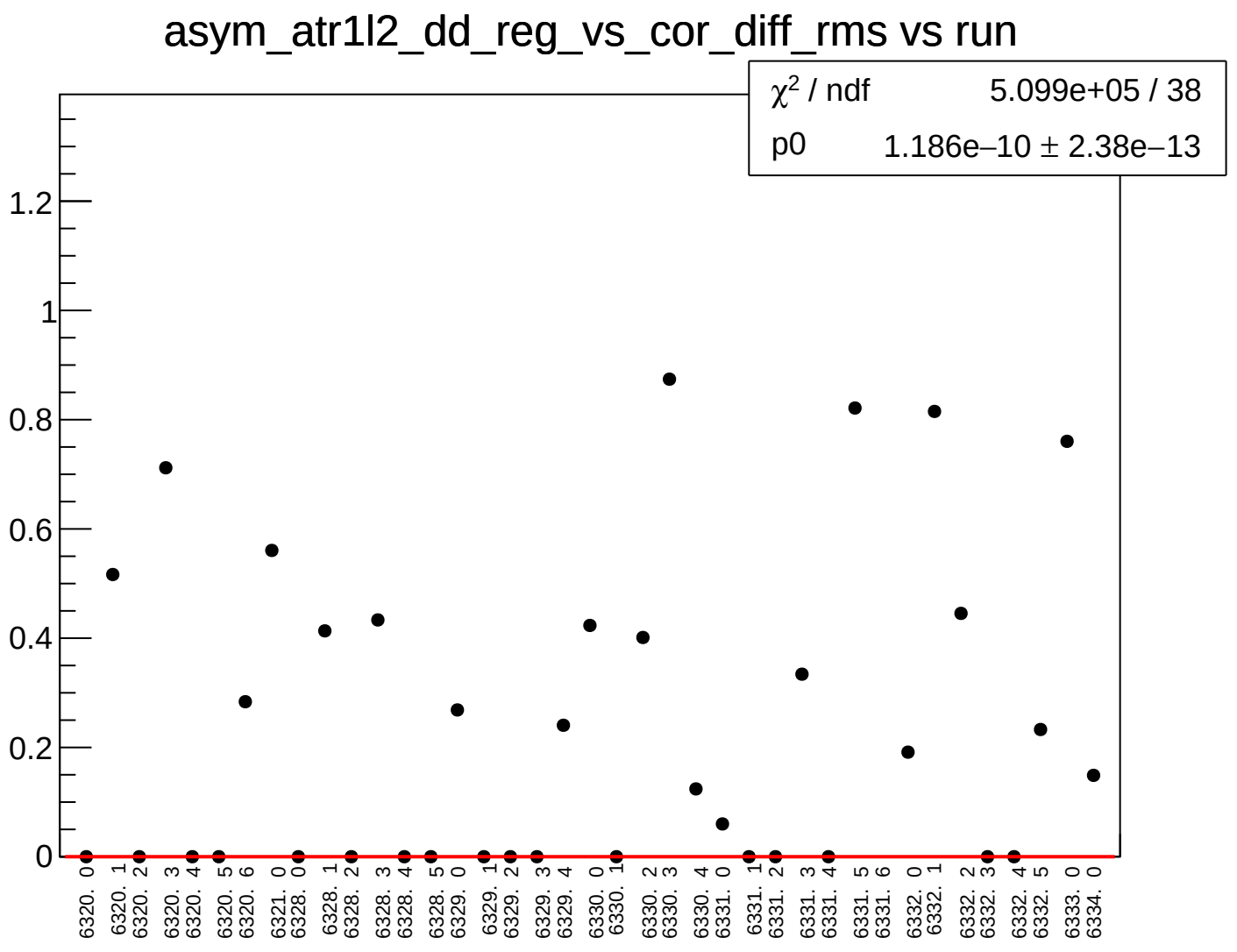

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.418e+04 / 38
p0 4586 ± 5.317
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

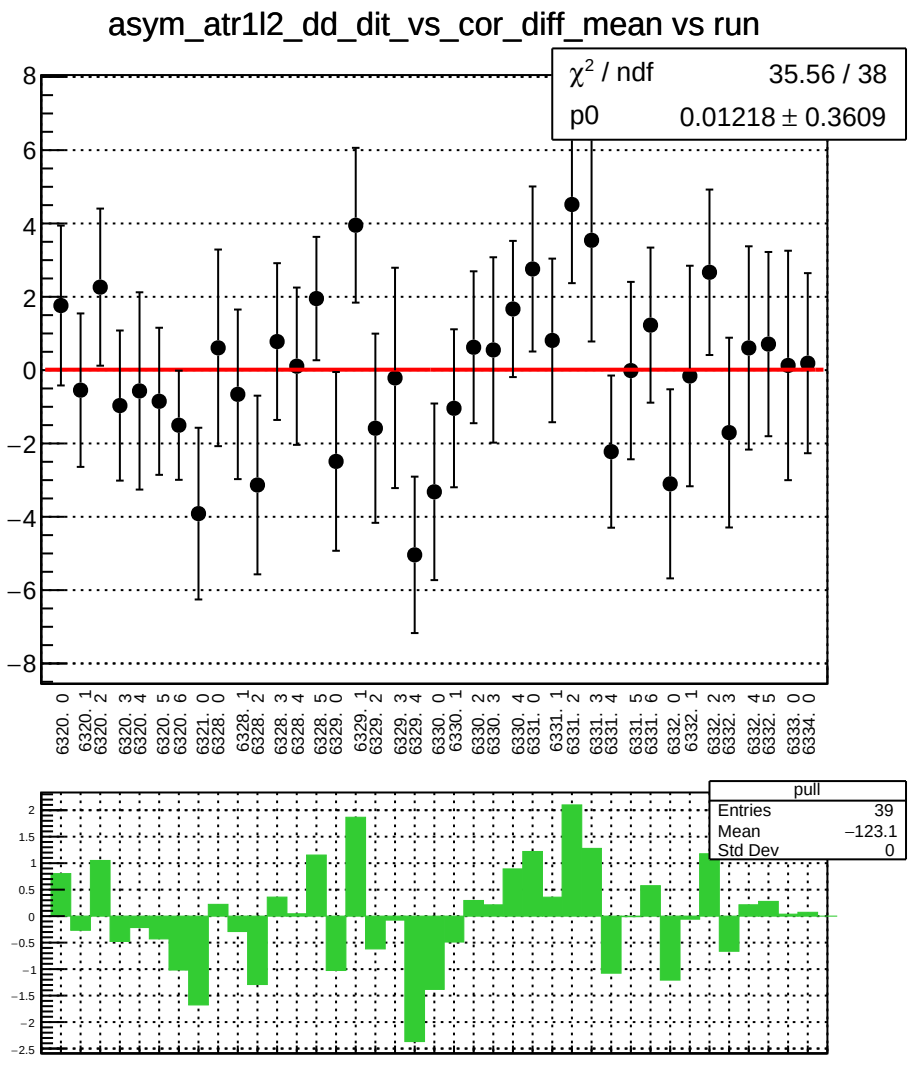

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 28.35 / 38
p0 1.297e+04 ± 7973
pull
Entries 39
Mean 64.47
Std Dev 0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

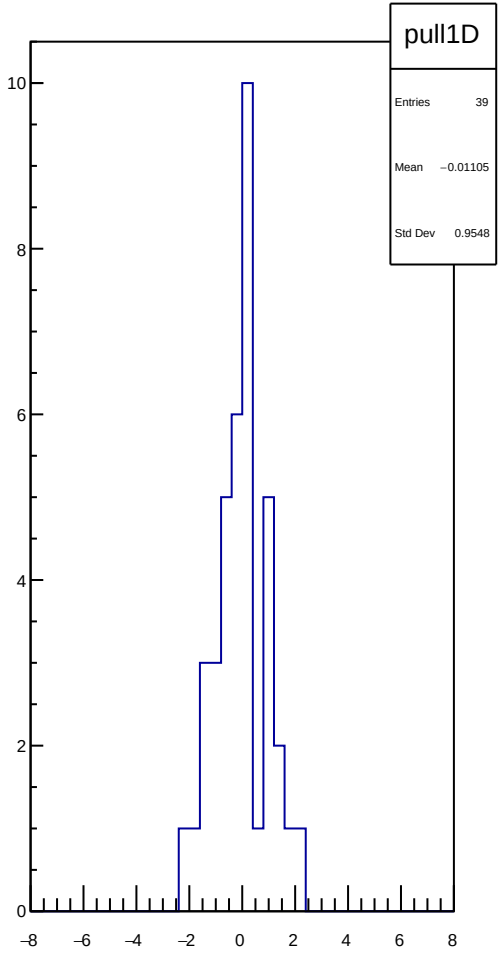

pull1D
Entries 39
Mean −0.02045
Std Dev 0.8523

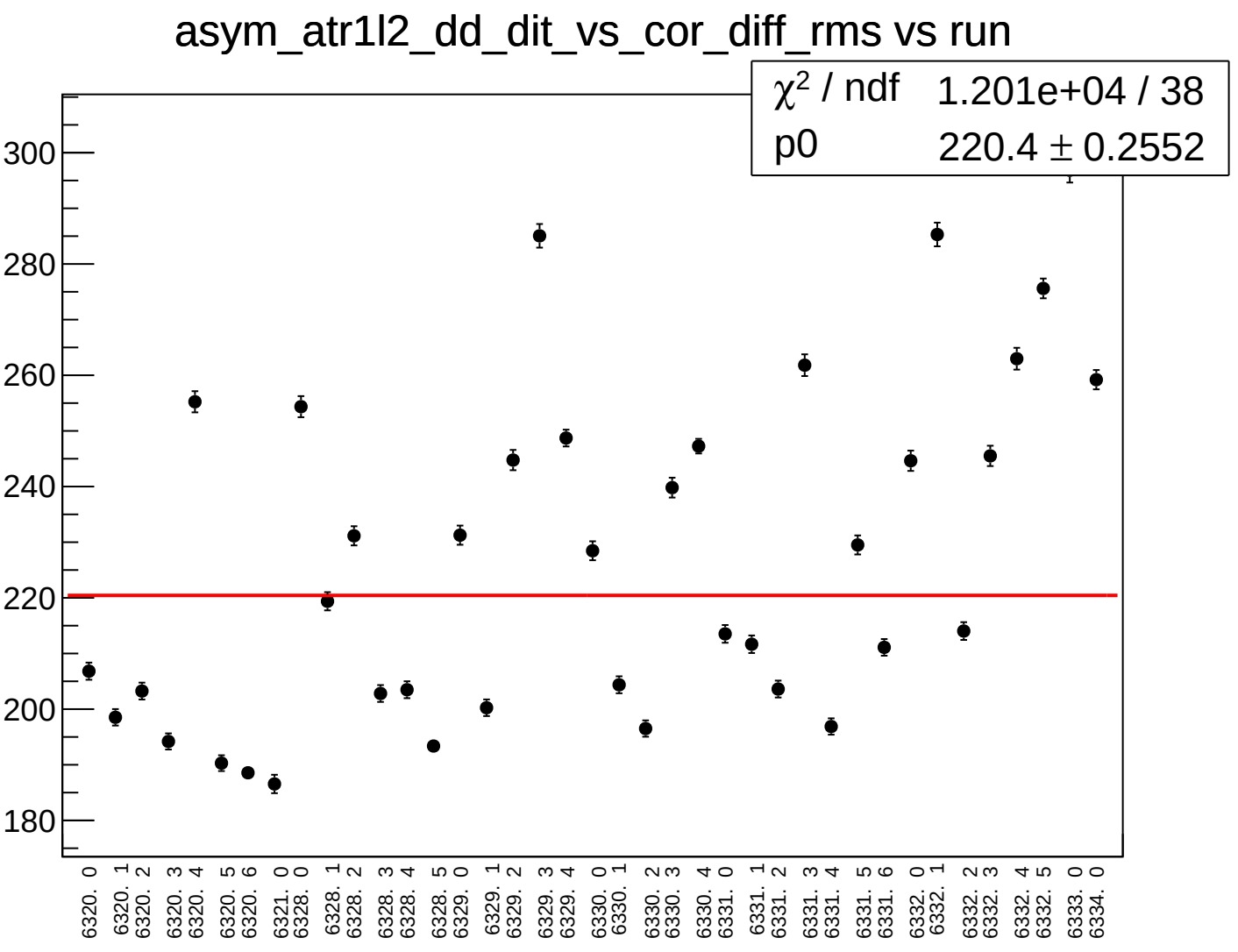

asym_atr1l2_dd_rms vs run
χ² / ndf 1.003e+04 / 38
p0 4876 ± 5.638
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

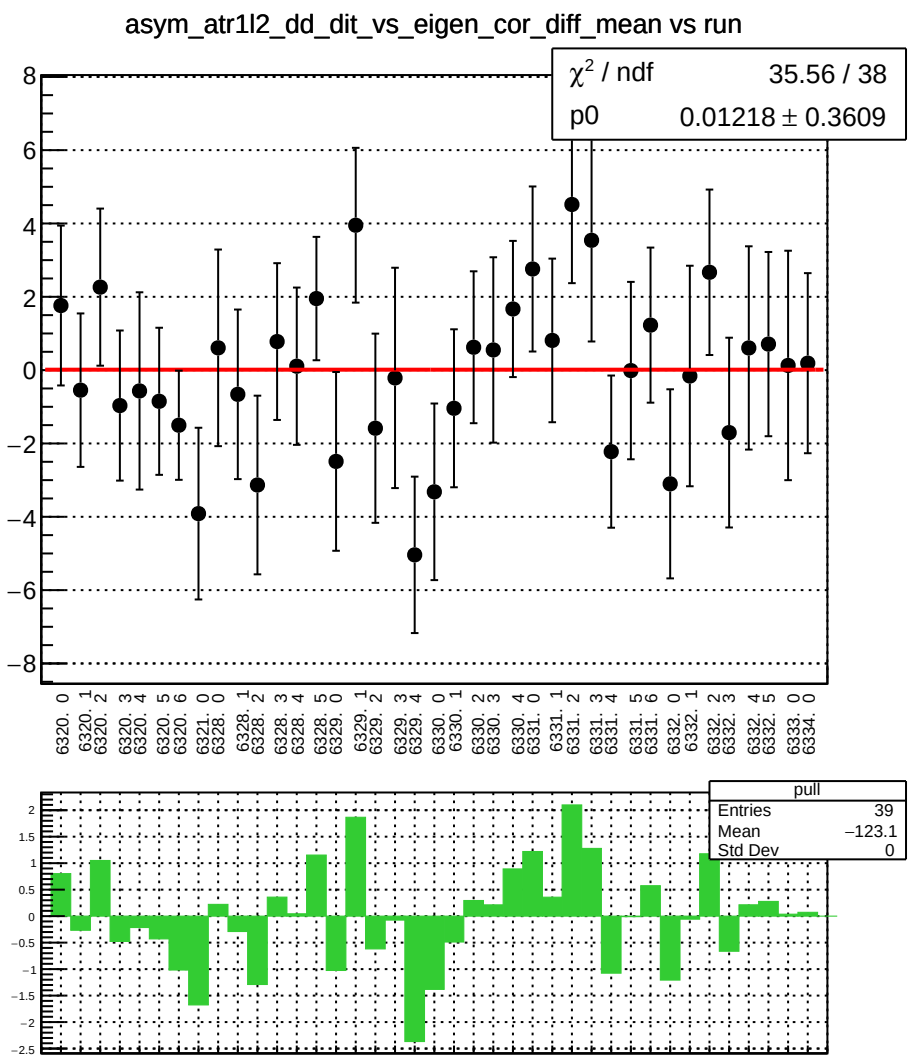

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 43.16 / 38
p0 −3.095e−13 ± 3.366e−13
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 48.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05867
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

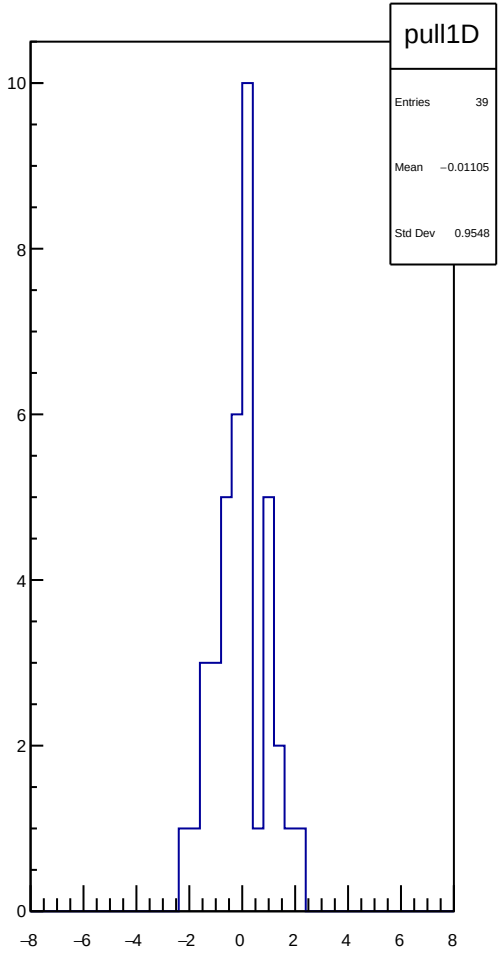

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.099e+05 / 38
p0 1.186e−10 ± 2.38e−13
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

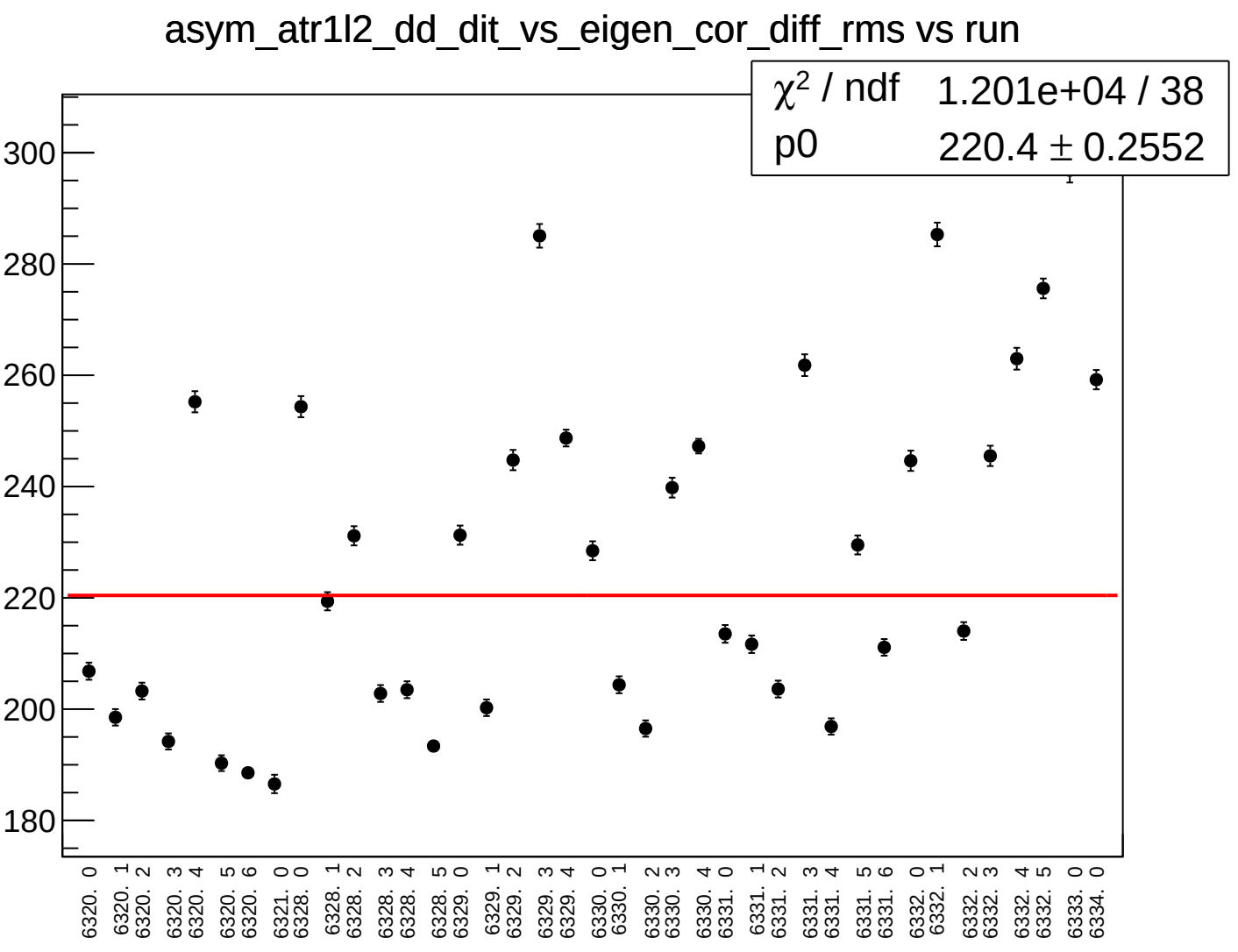

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.56 / 38
p0 0.01218 ± 0.3609
pull
Entries 39
Mean −123.1
Std Dev 0

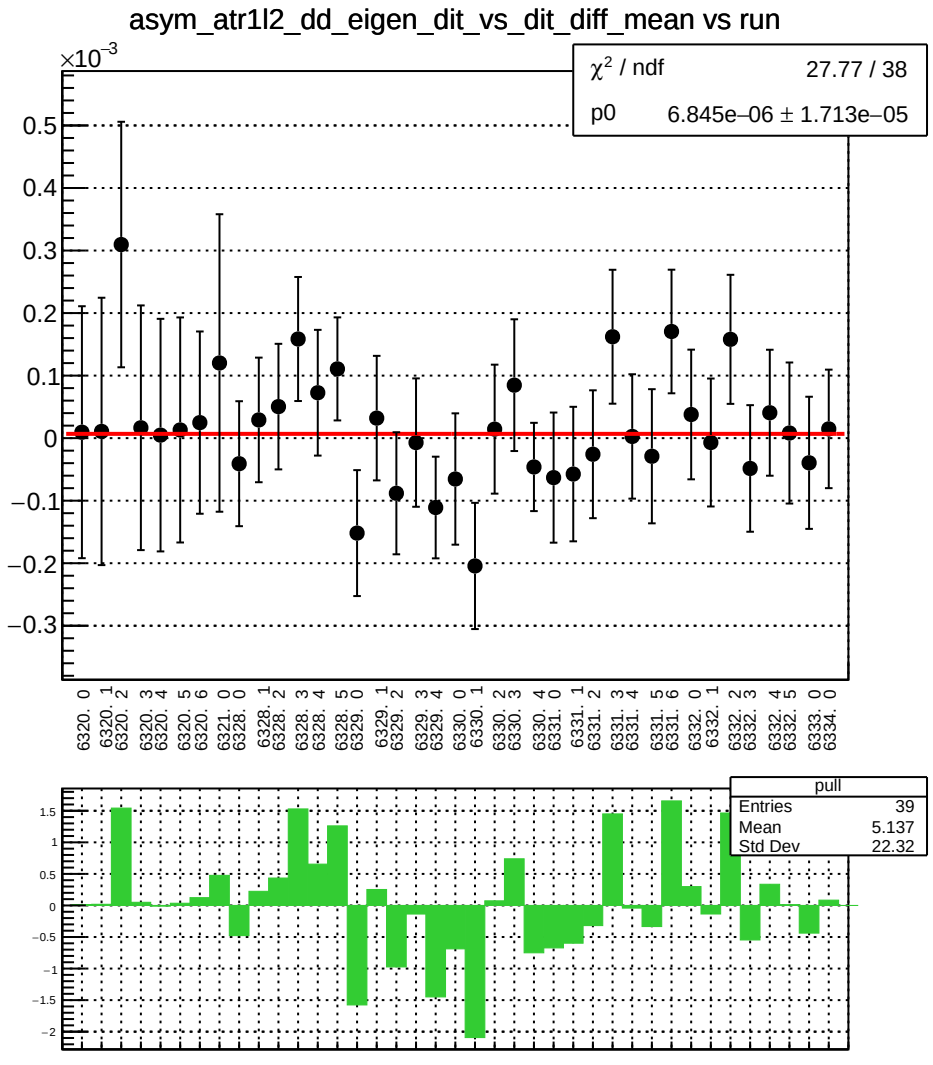

pull1D
Entries 39
Mean −0.01105
Std Dev 0.9548

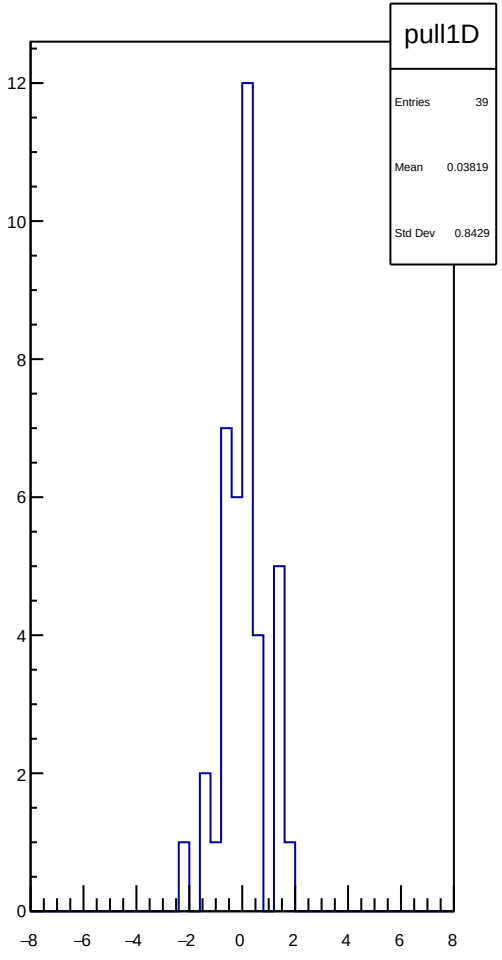

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 38
p0 220.4 ± 0.2552
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

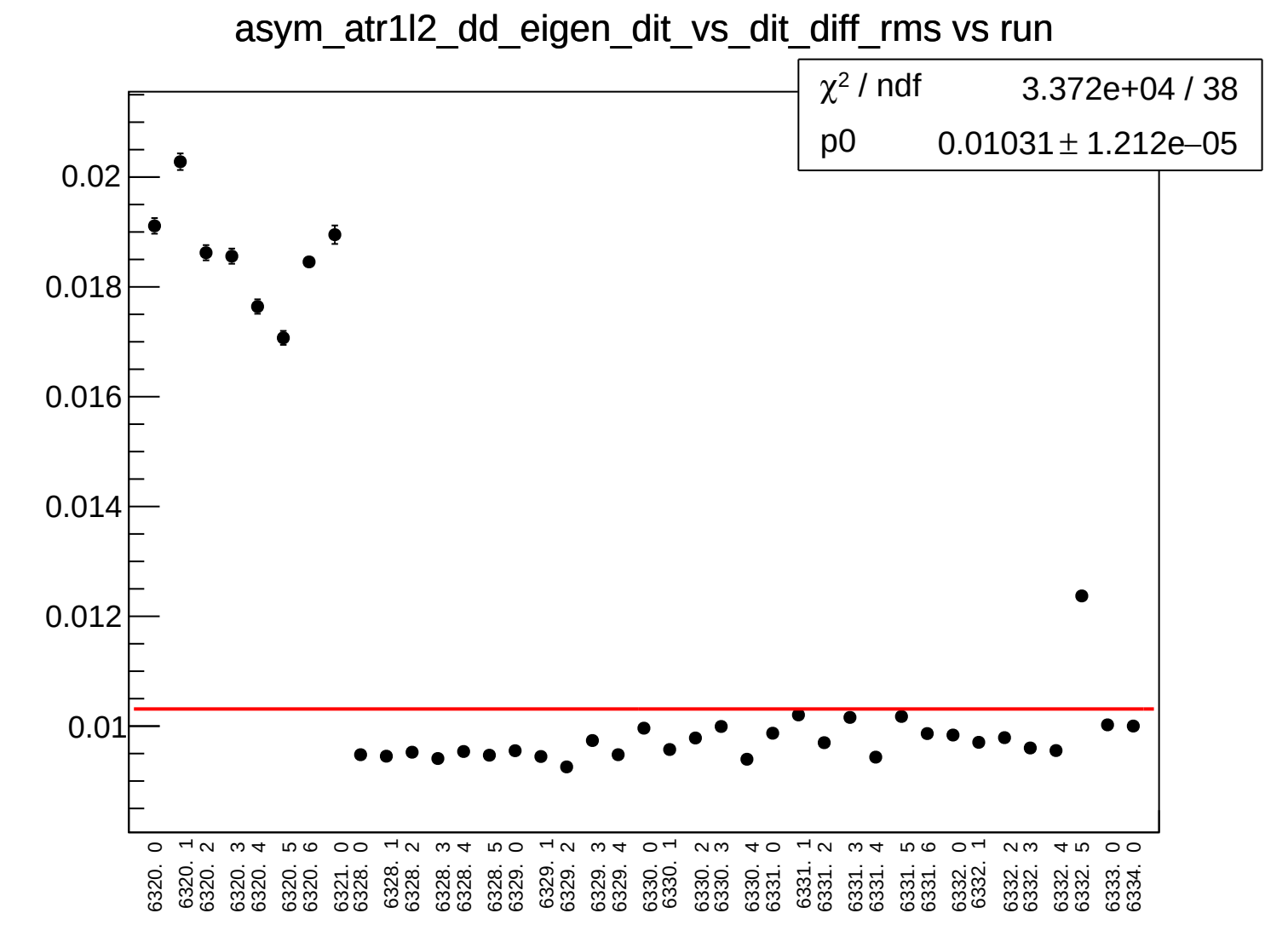

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.56 / 38
p0 0.01218 ± 0.3609
pull
Entries 39
Mean −123.1
Std Dev 0

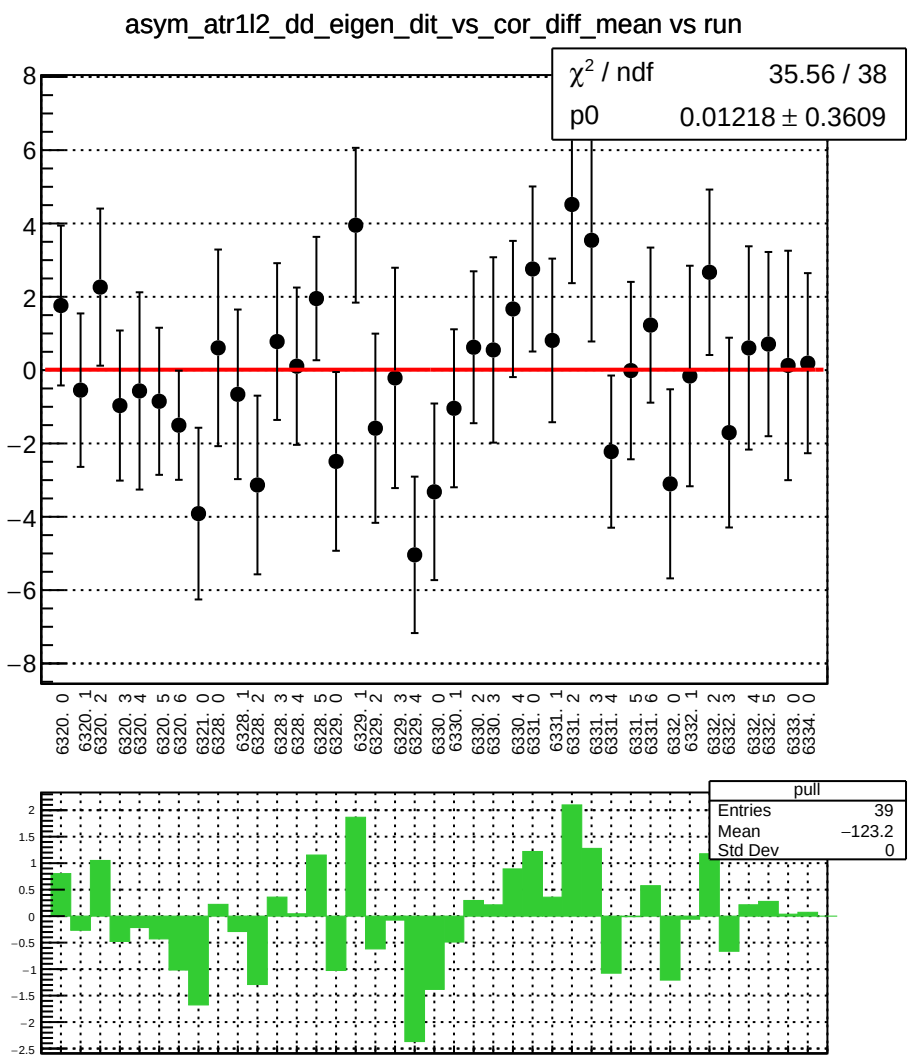

pull1D
Entries 39
Mean −0.01105
Std Dev 0.9548

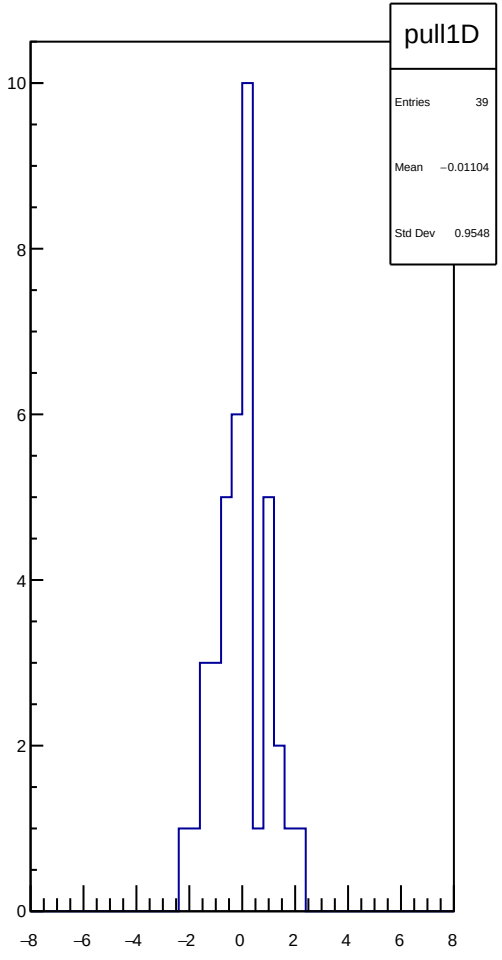

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 38
p0 220.4 ± 0.2552
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

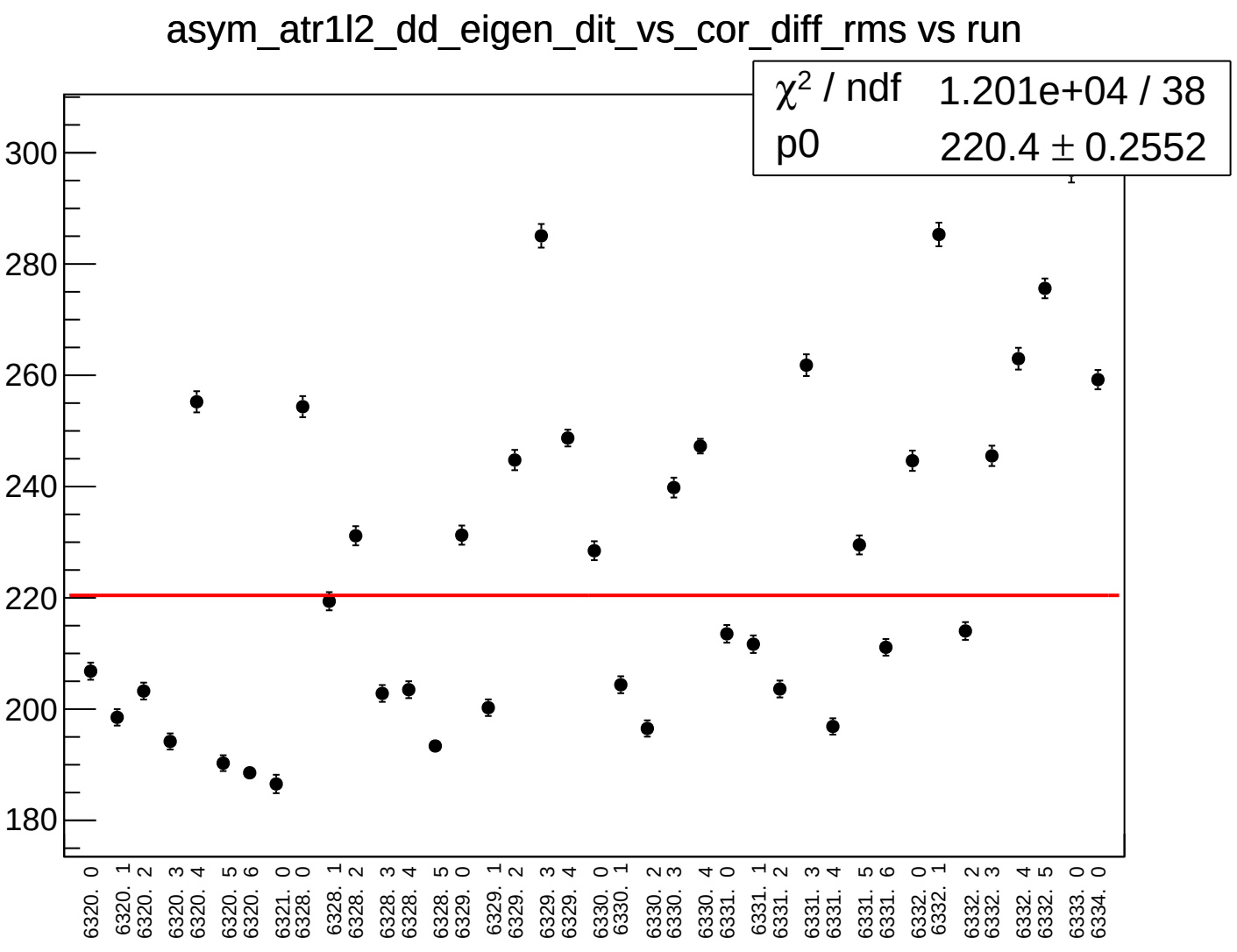

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.77 / 38
p0 6.845e−06 ± 1.713e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.137
Std Dev 22.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

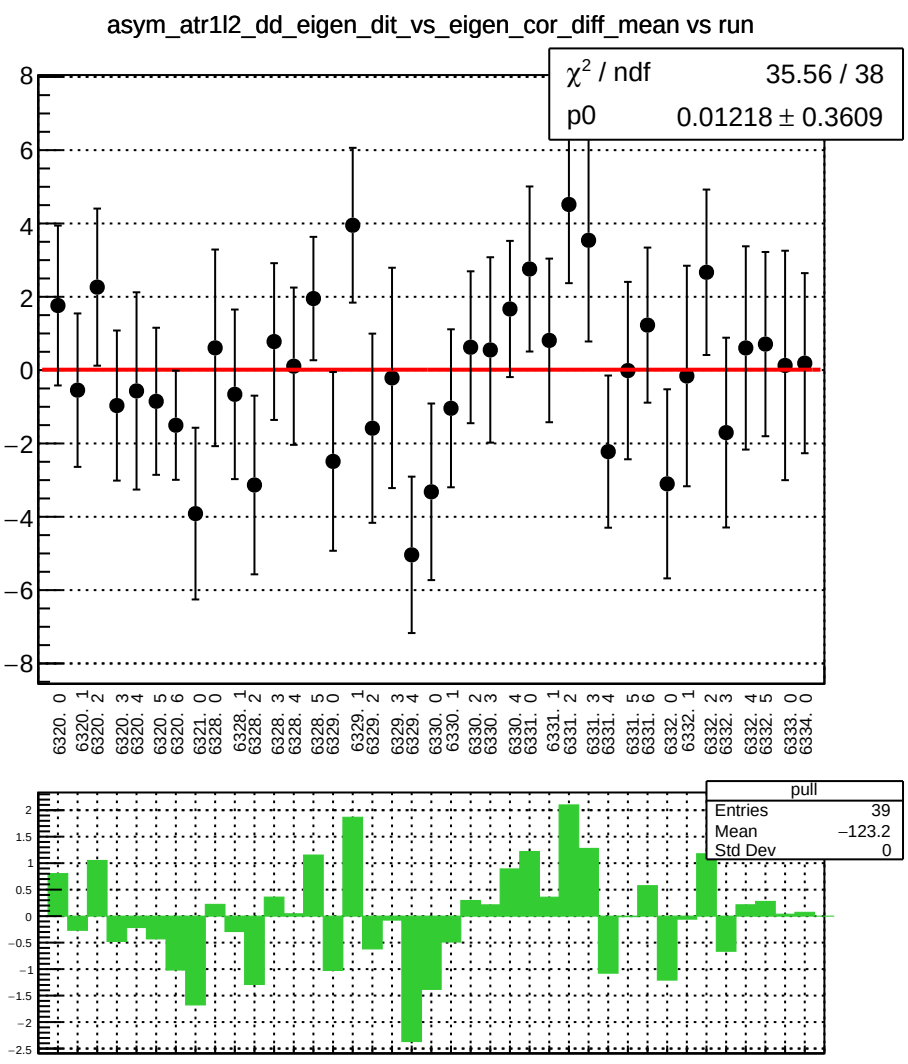

pull1D
Entries 39
Mean 0.03819
Std Dev 0.8429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

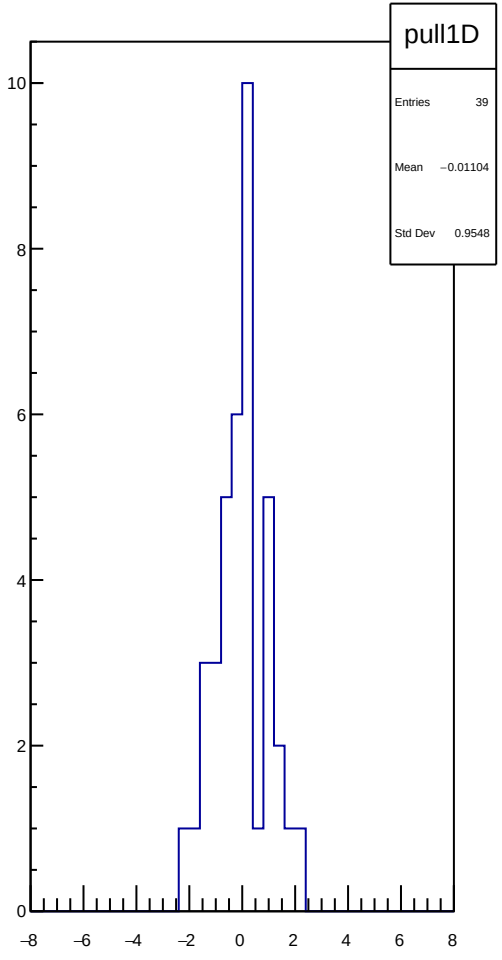

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.372e+04 / 38
p0 0.01031 ± 1.212e–05
0.02
0.018
0.016
0.014
0.012
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

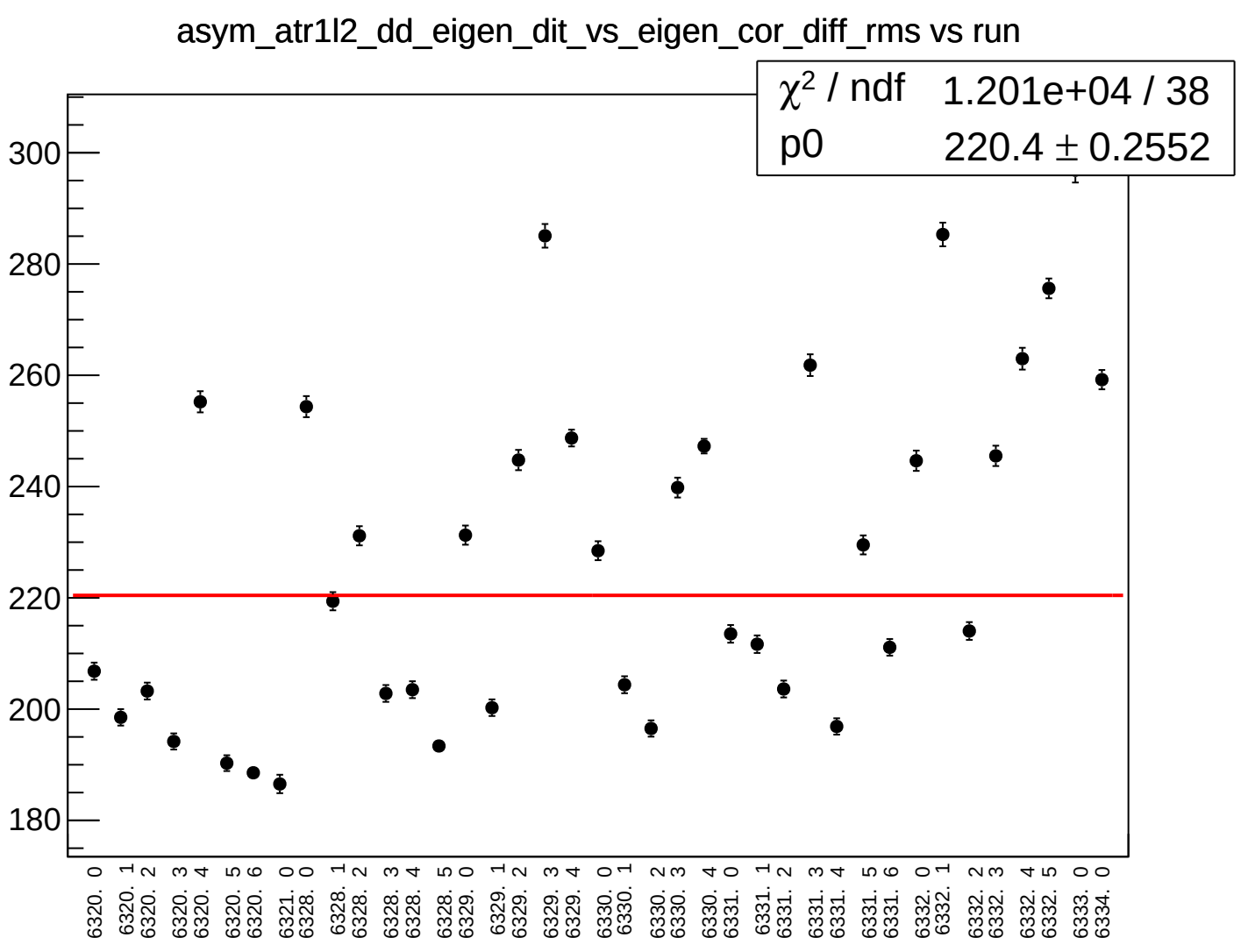

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.56 / 38
p0 0.01218 ± 0.3609
pull
Entries 39
Mean −123.2
Std Dev 0

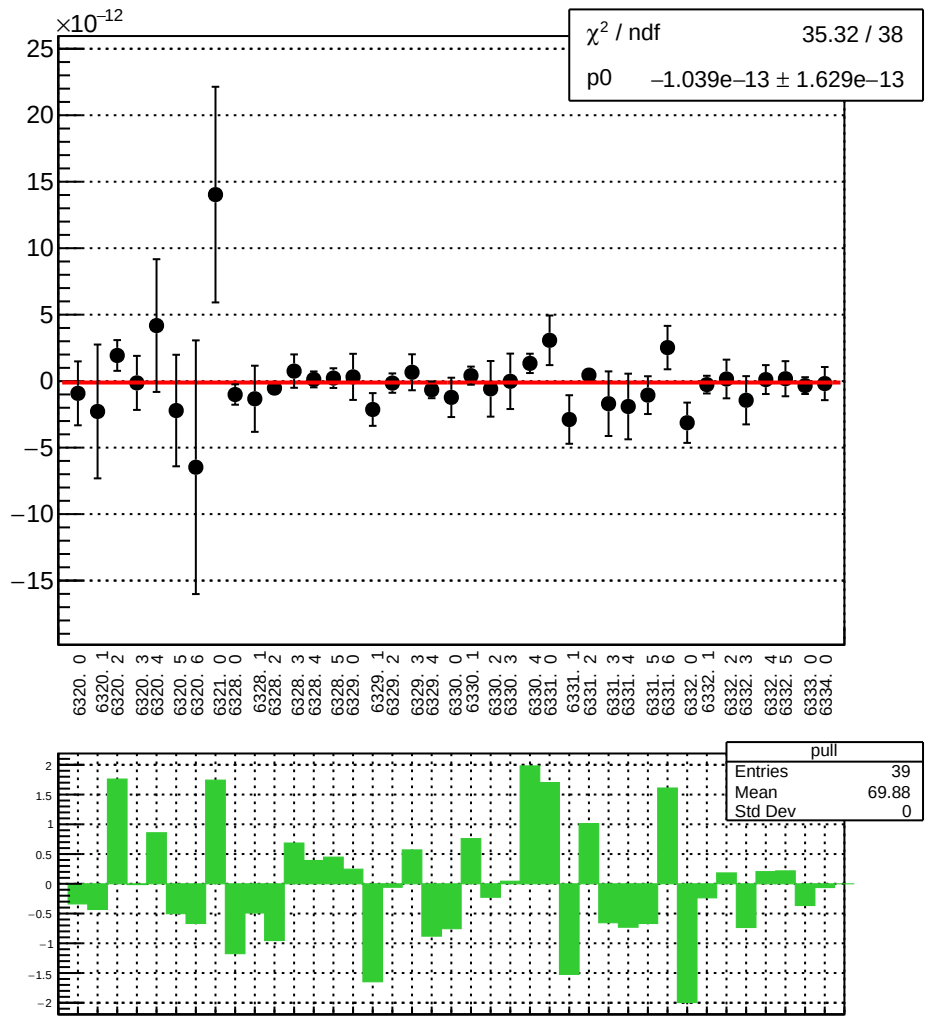

pull1D
Entries 39
Mean −0.01104
Std Dev 0.9548

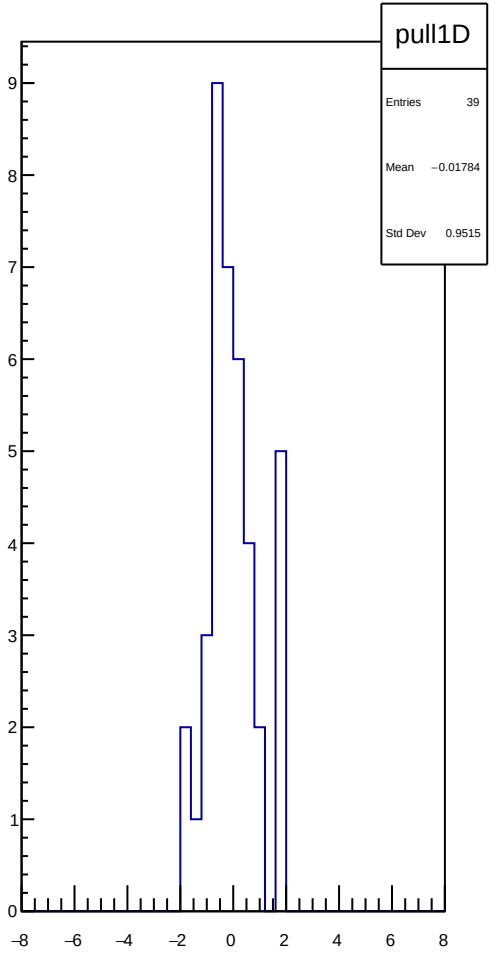

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 38
p0 220.4 ± 0.2552
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

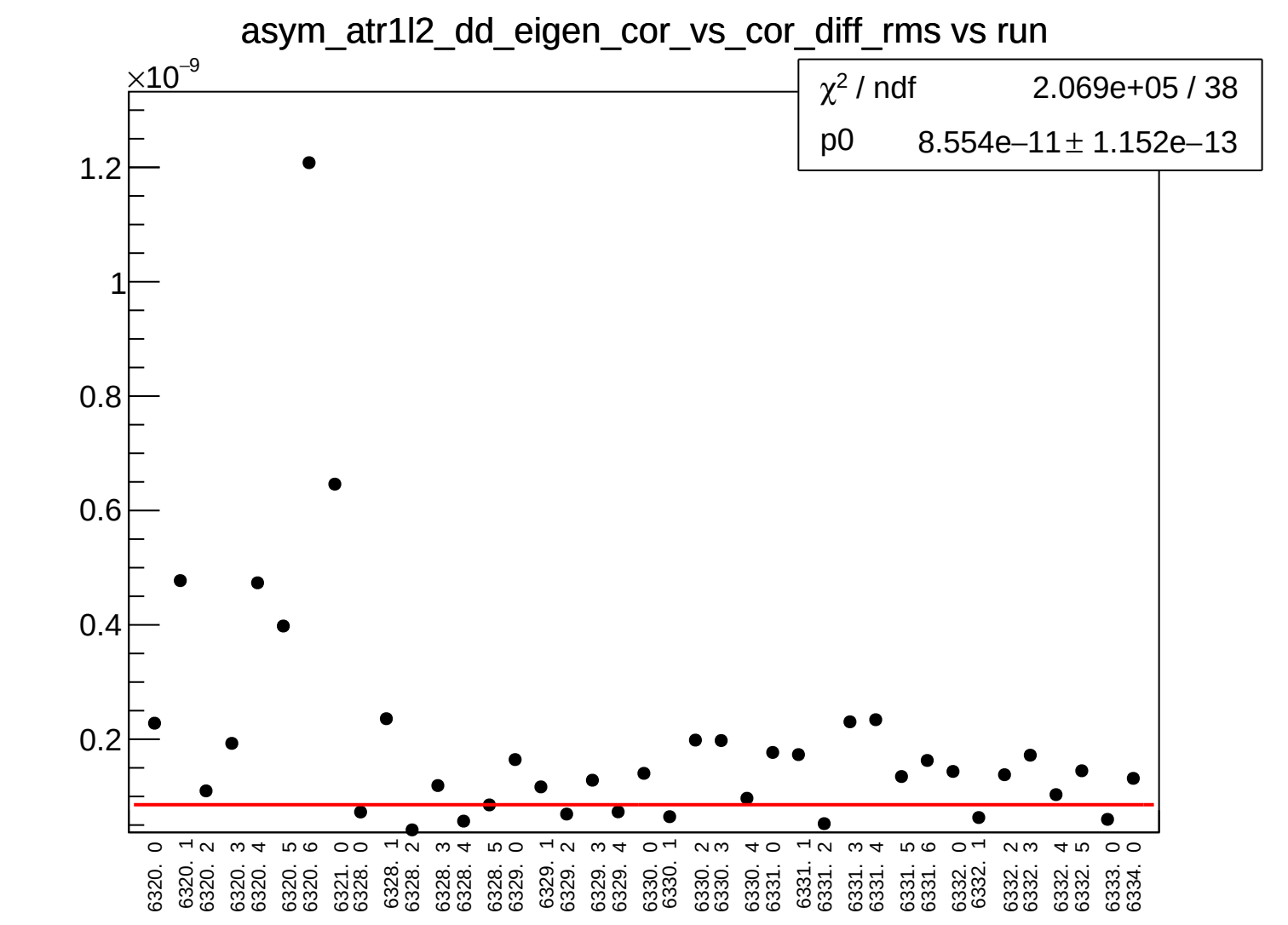

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.56 / 38
p0 0.01218 ± 0.3609
pull
Entries 39
Mean −123.2
Std Dev 0

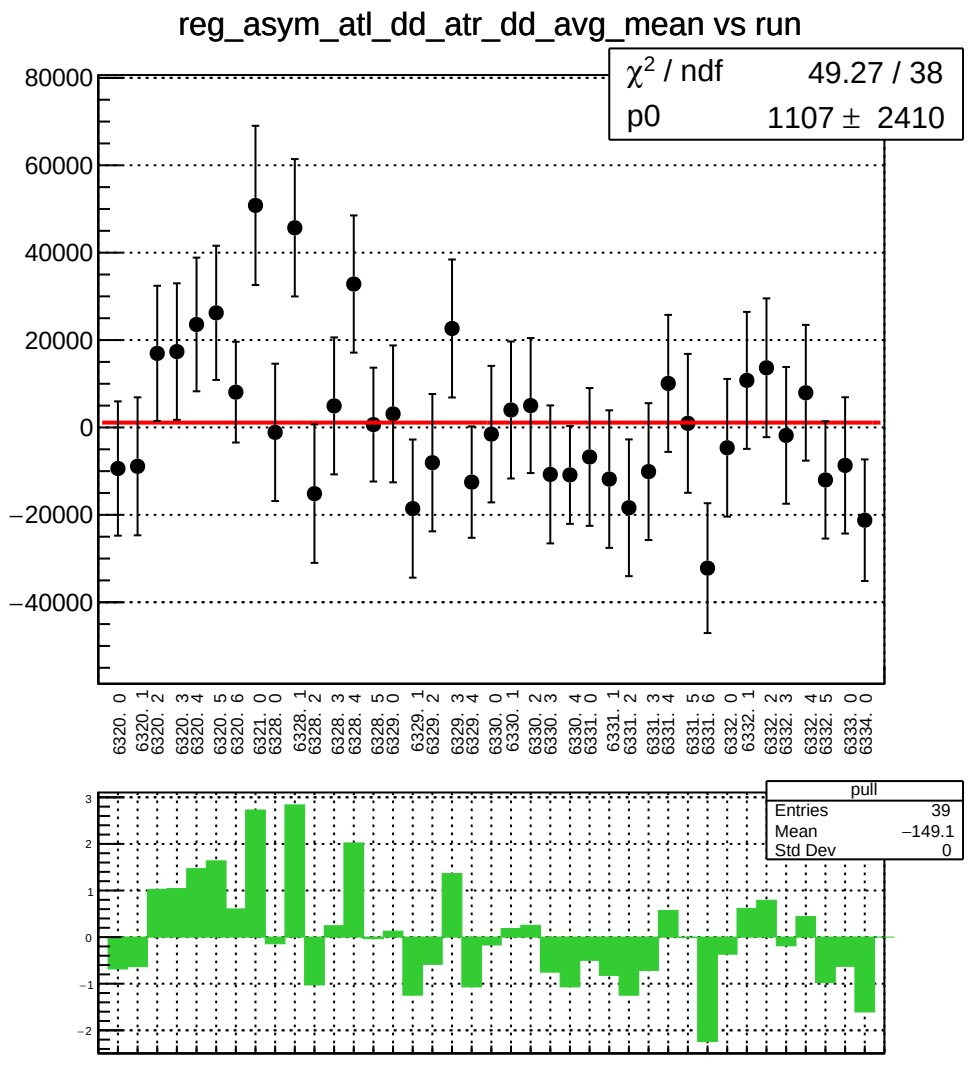

pull1D
Entries 39
Mean −0.01104
Std Dev 0.9548

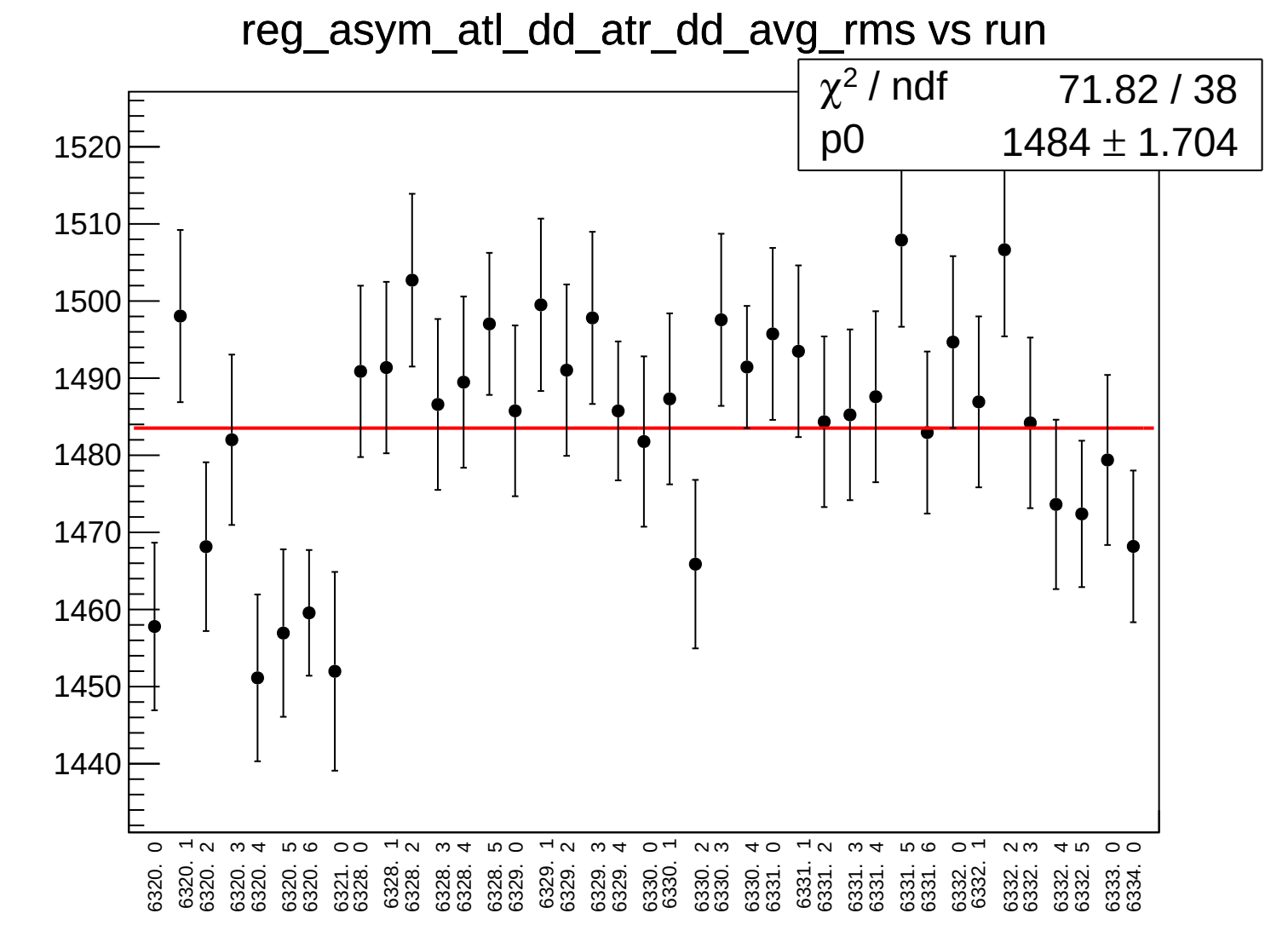

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 38
p0 220.4 ± 0.2552
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

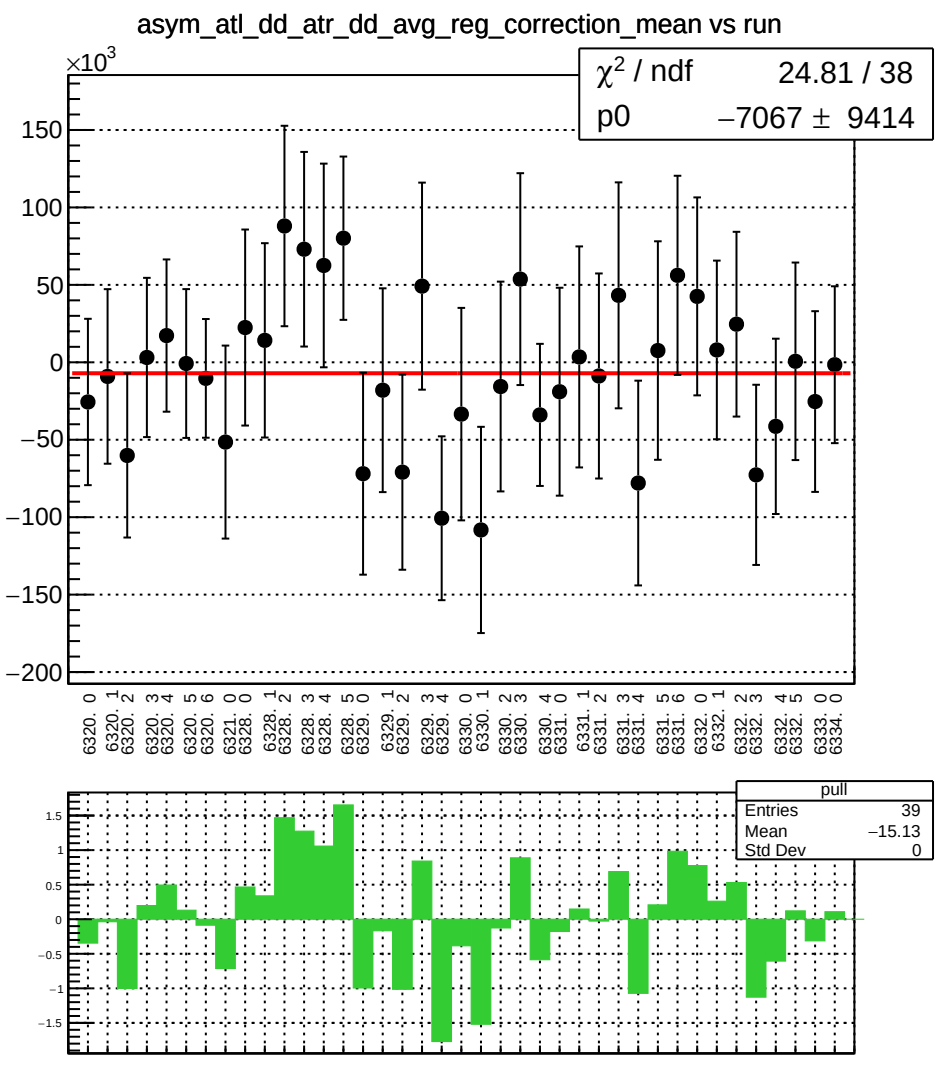

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.32 / 38
p0 −1.039e−13 ± 1.629e−13
pull
Entries 39
Mean 69.88
Std Dev 0

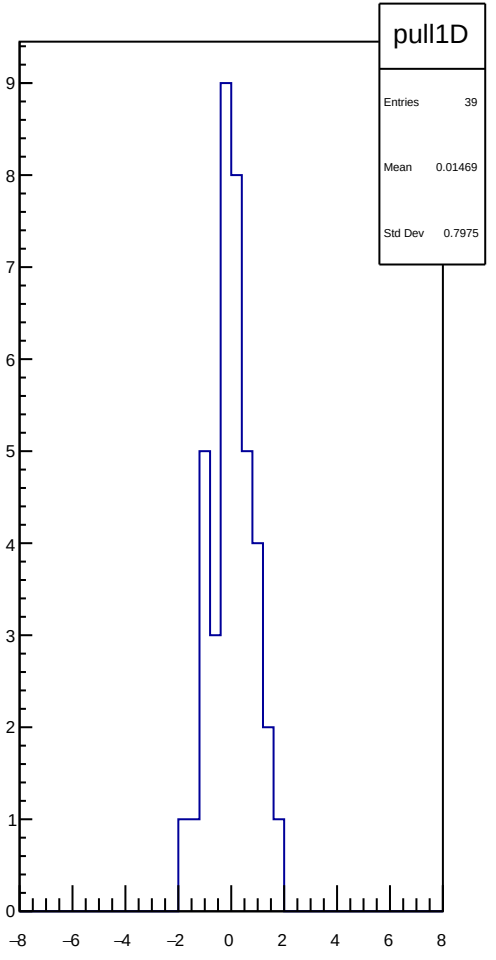

pull1D
Entries 39
Mean −0.01784
Std Dev 0.9515

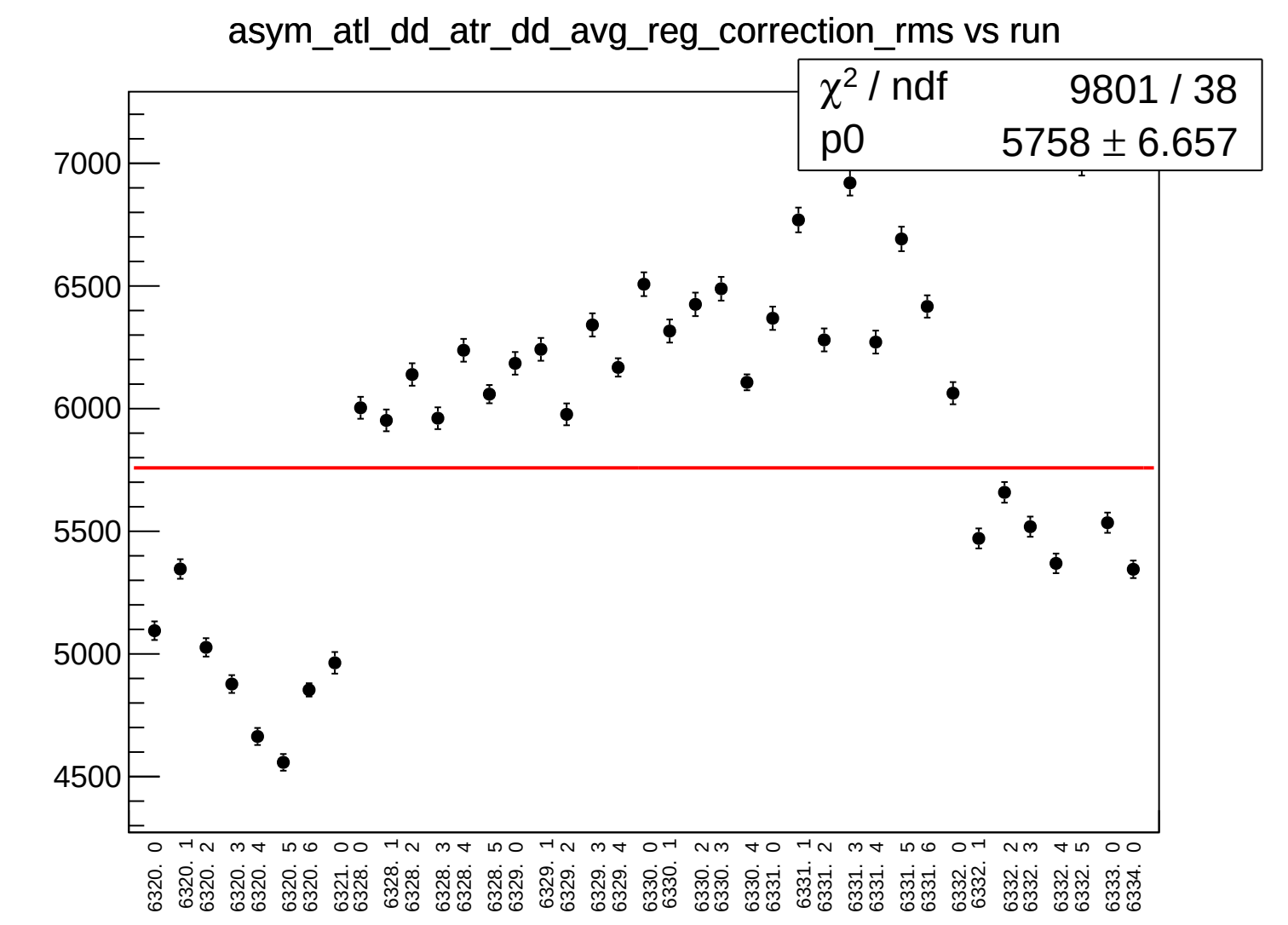

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.069e+05 / 38
p0 8.554e−11 ± 1.152e−13
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

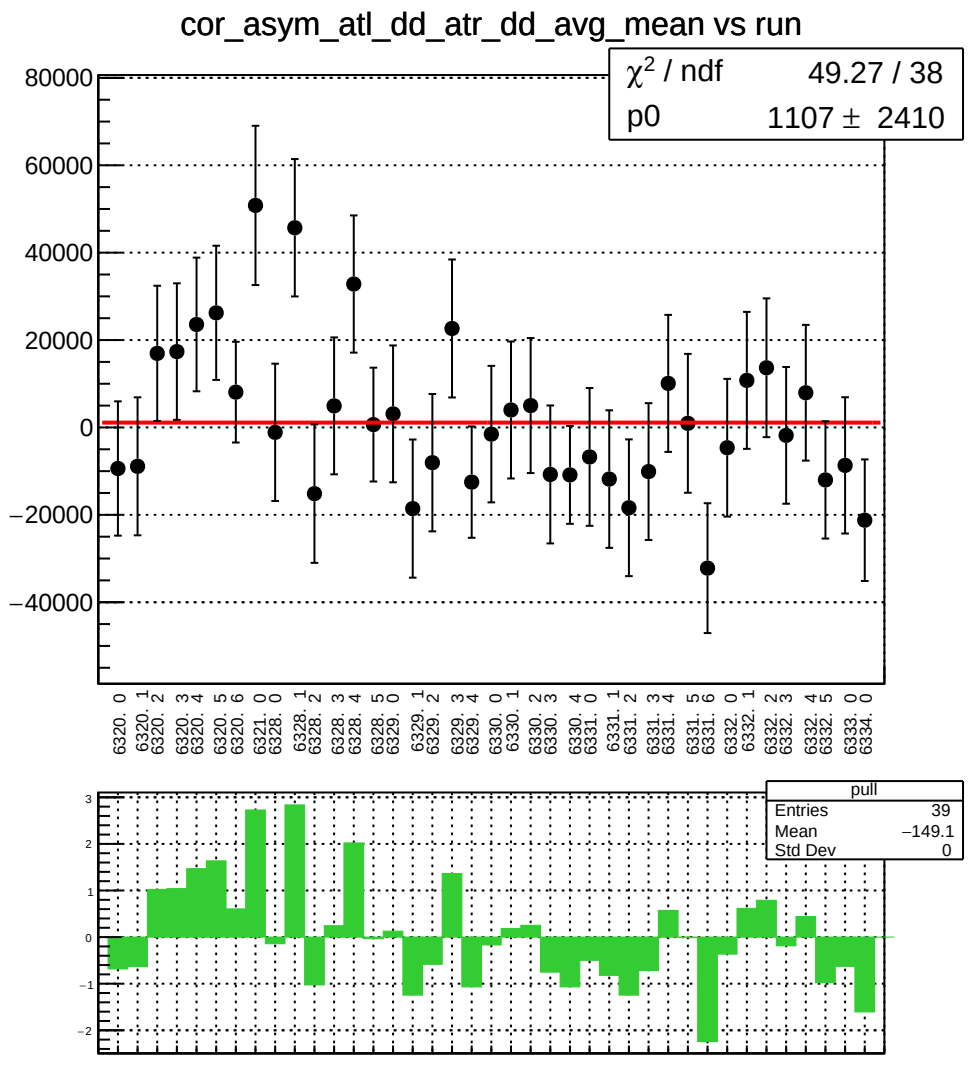

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

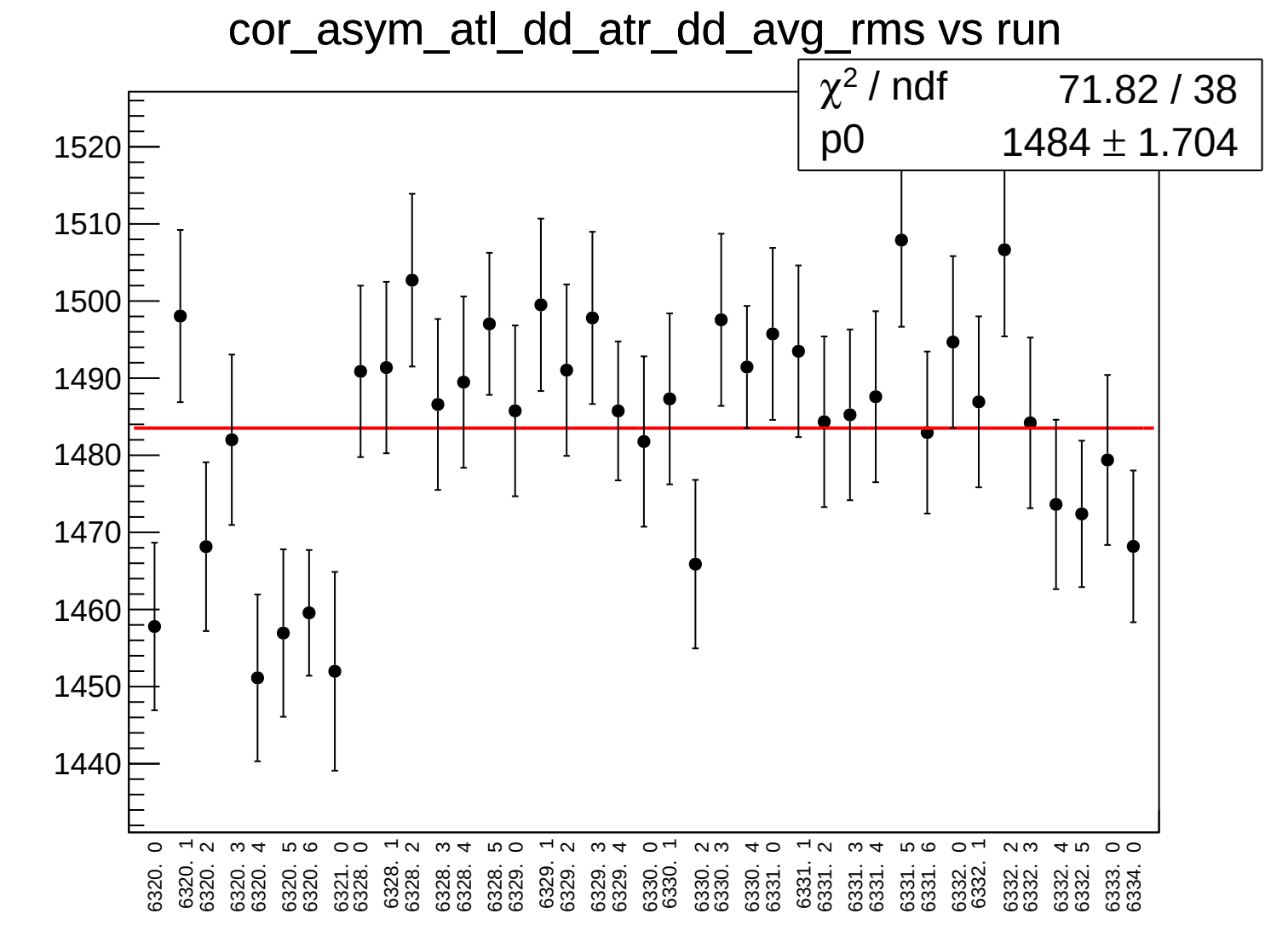

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

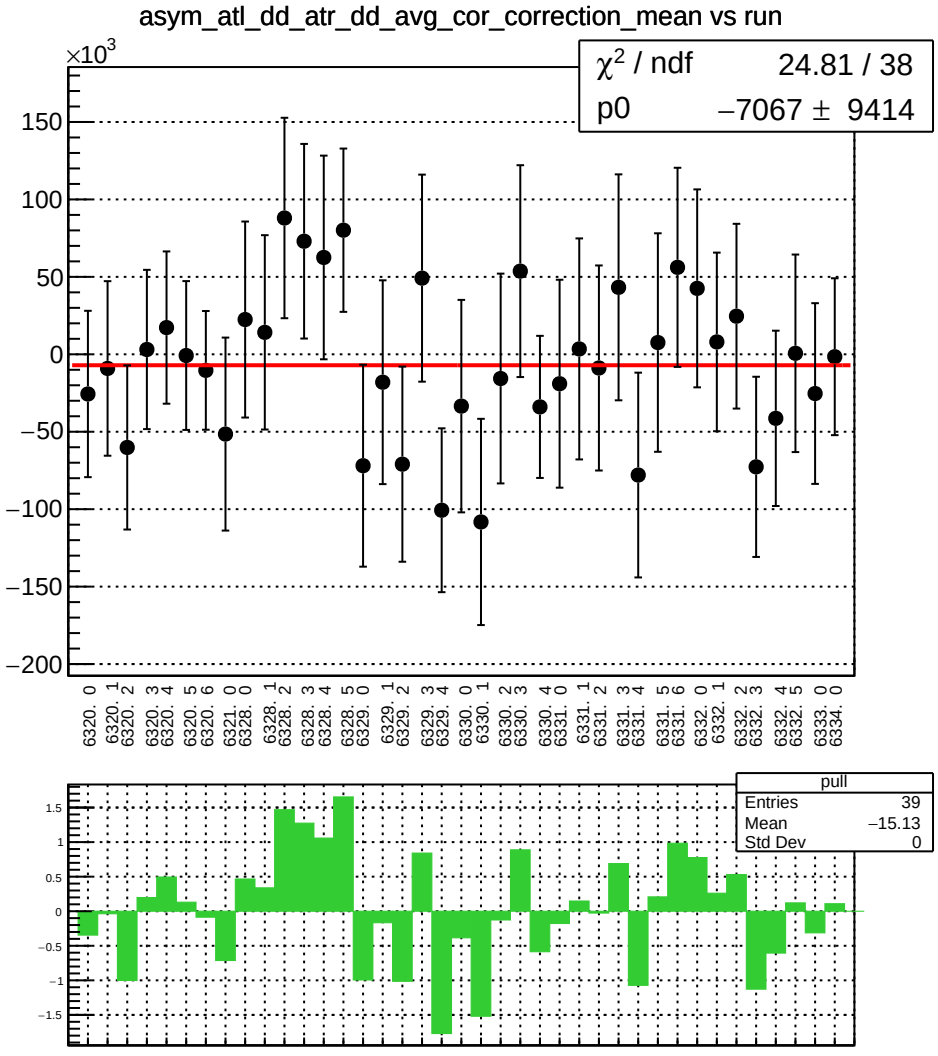

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

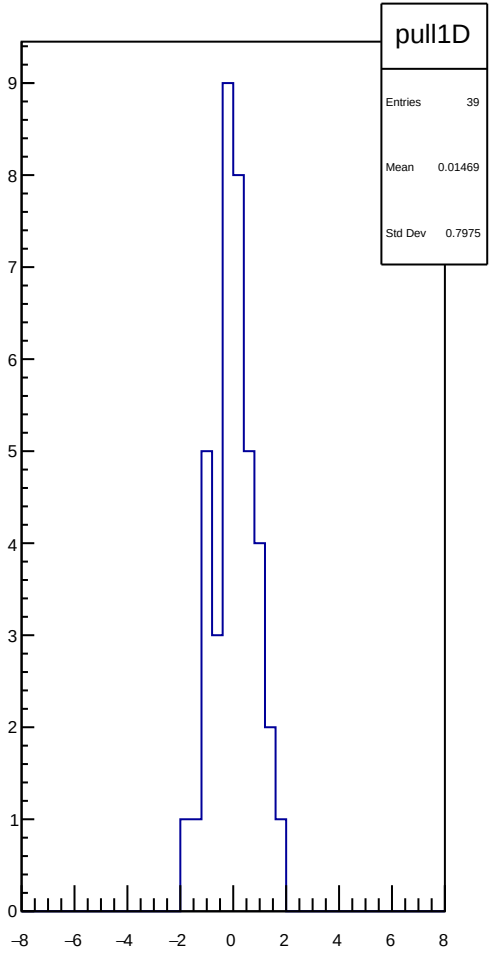

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

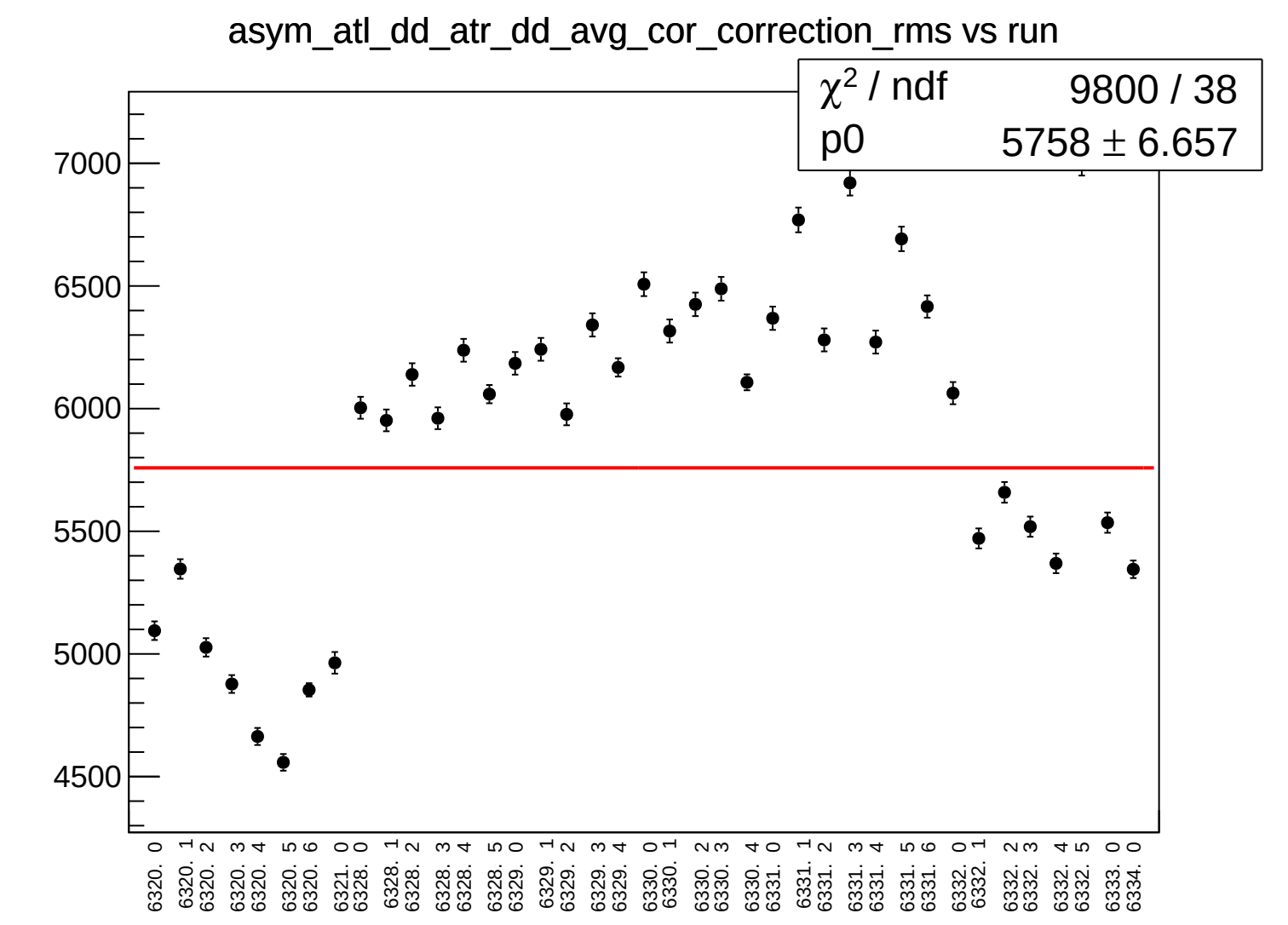

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 9801 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

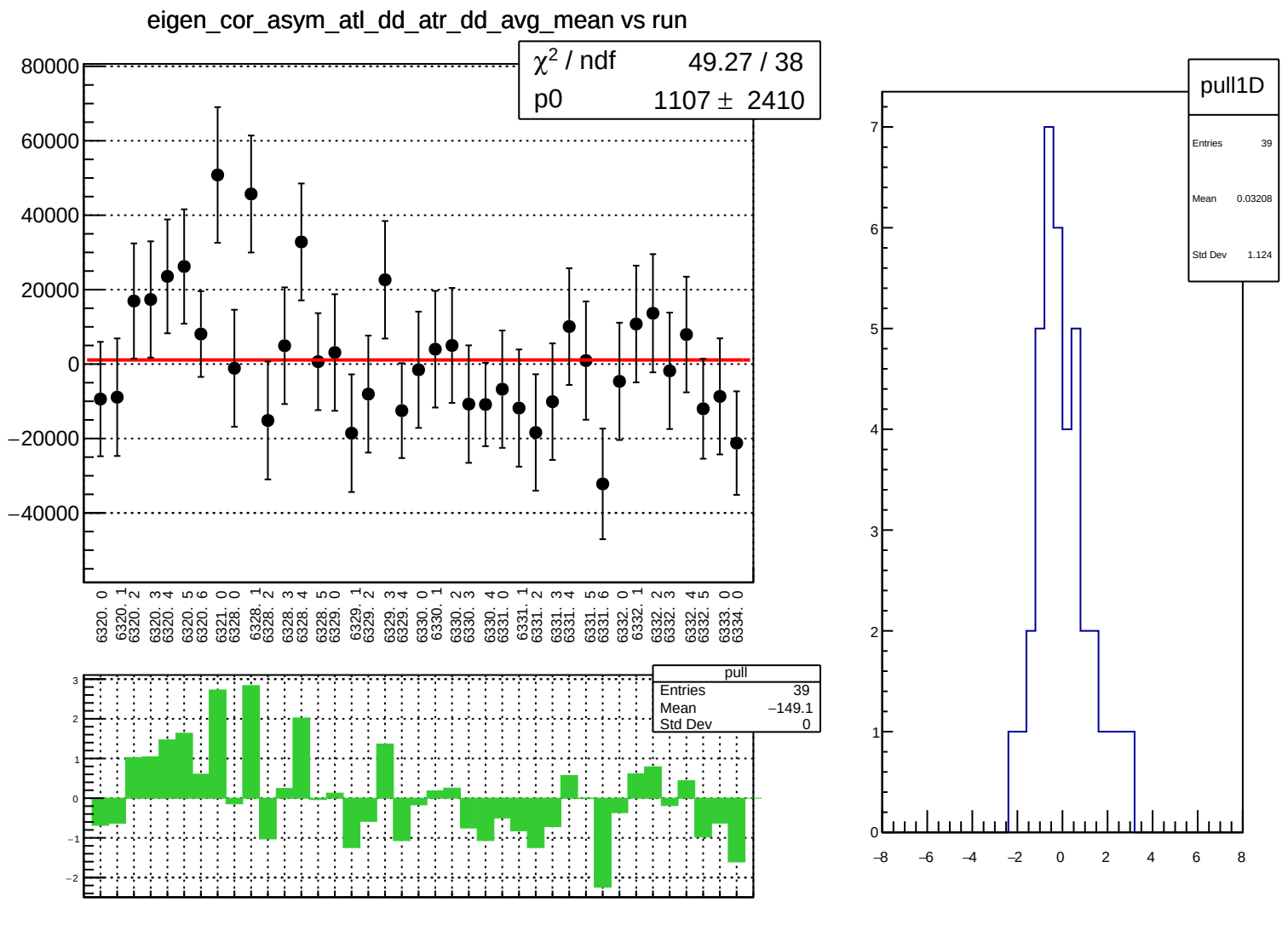

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

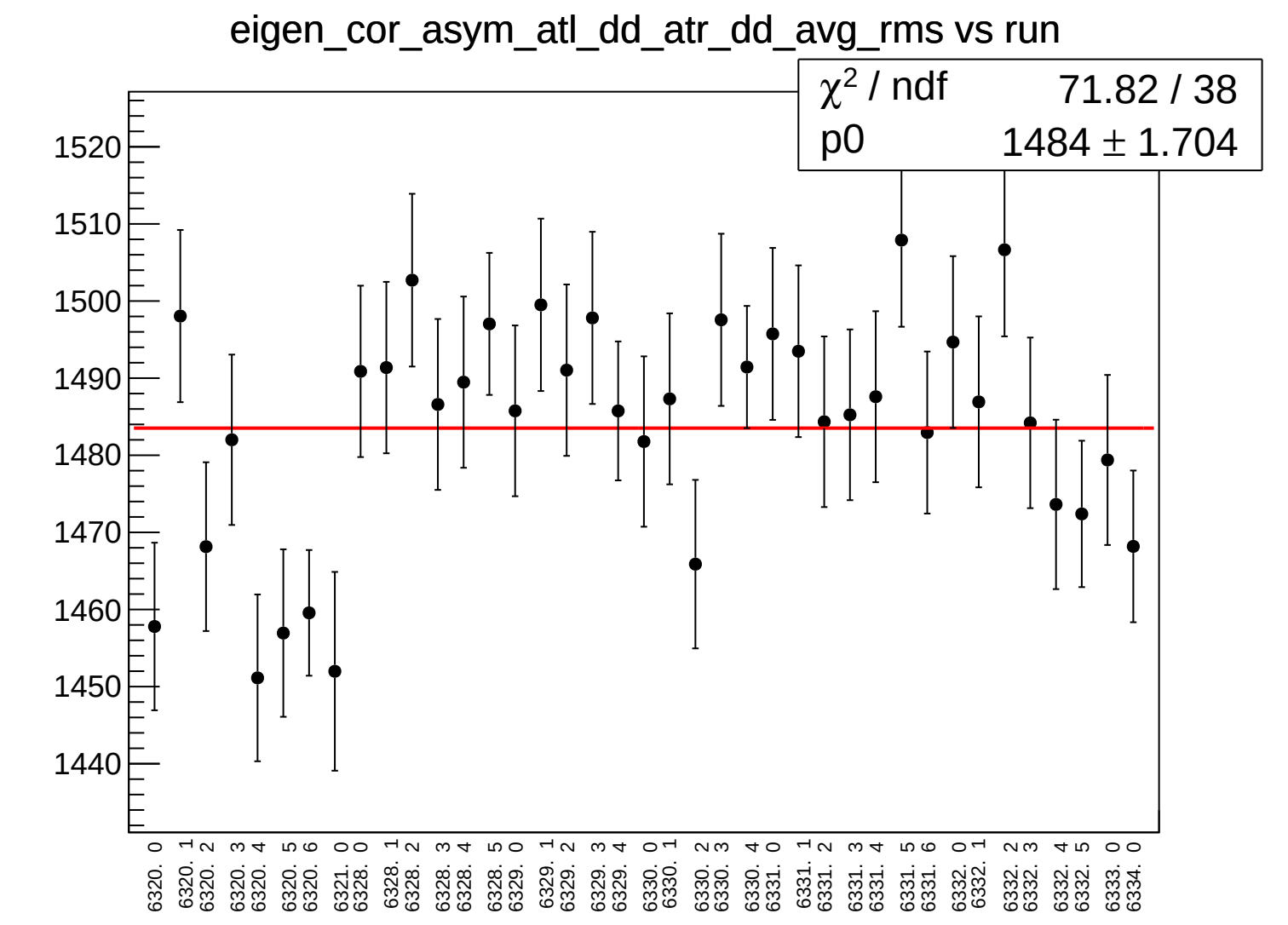

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

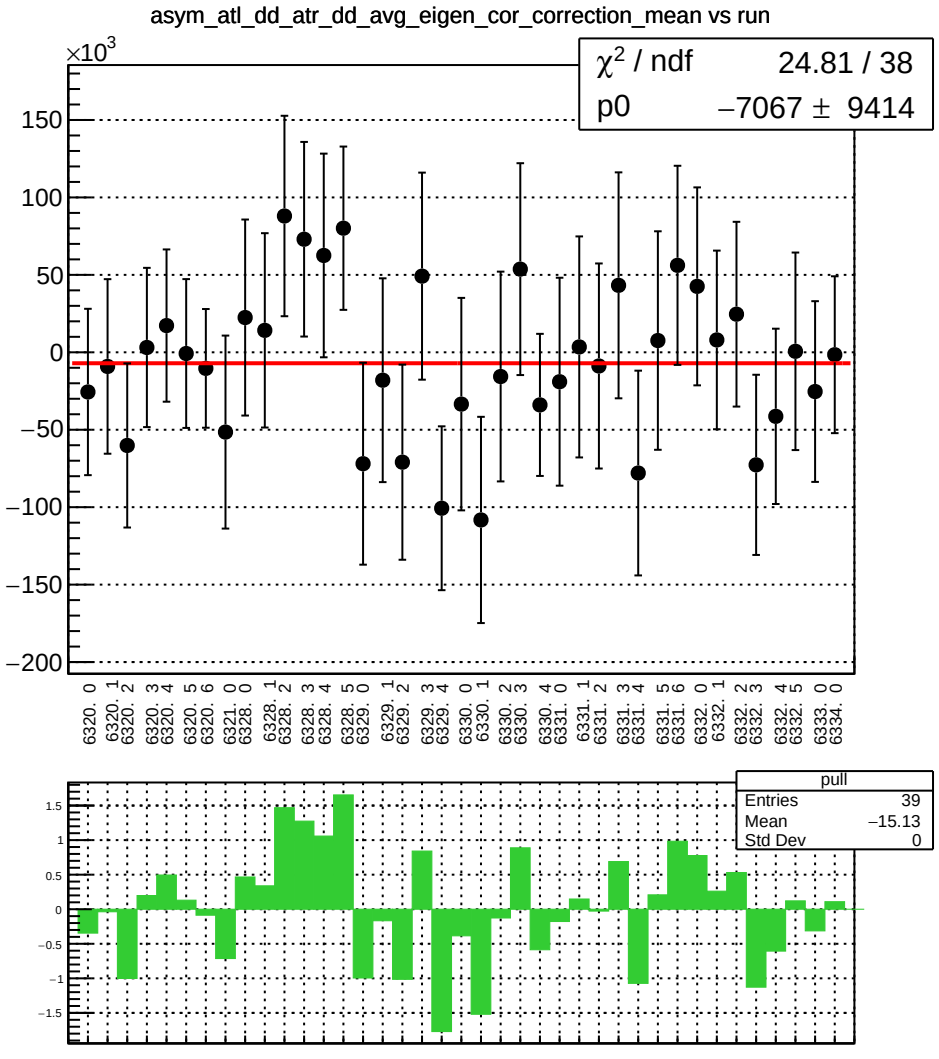

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

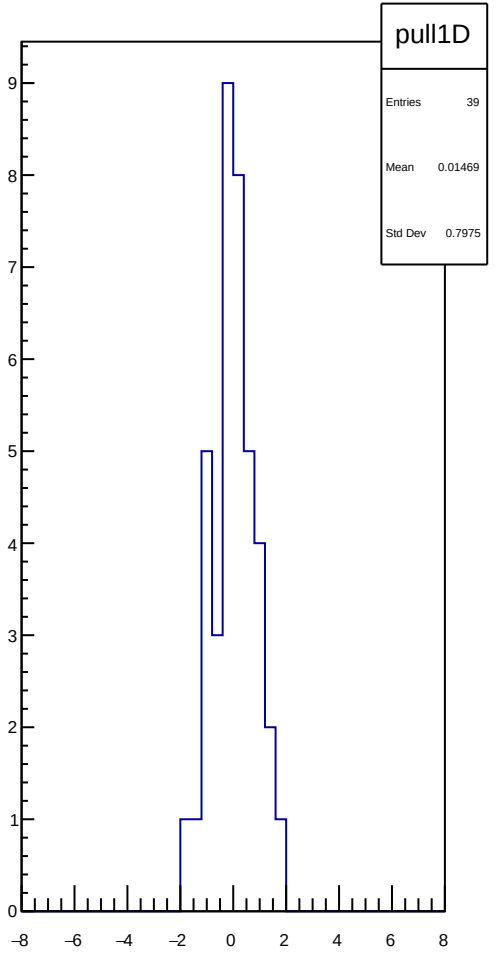

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

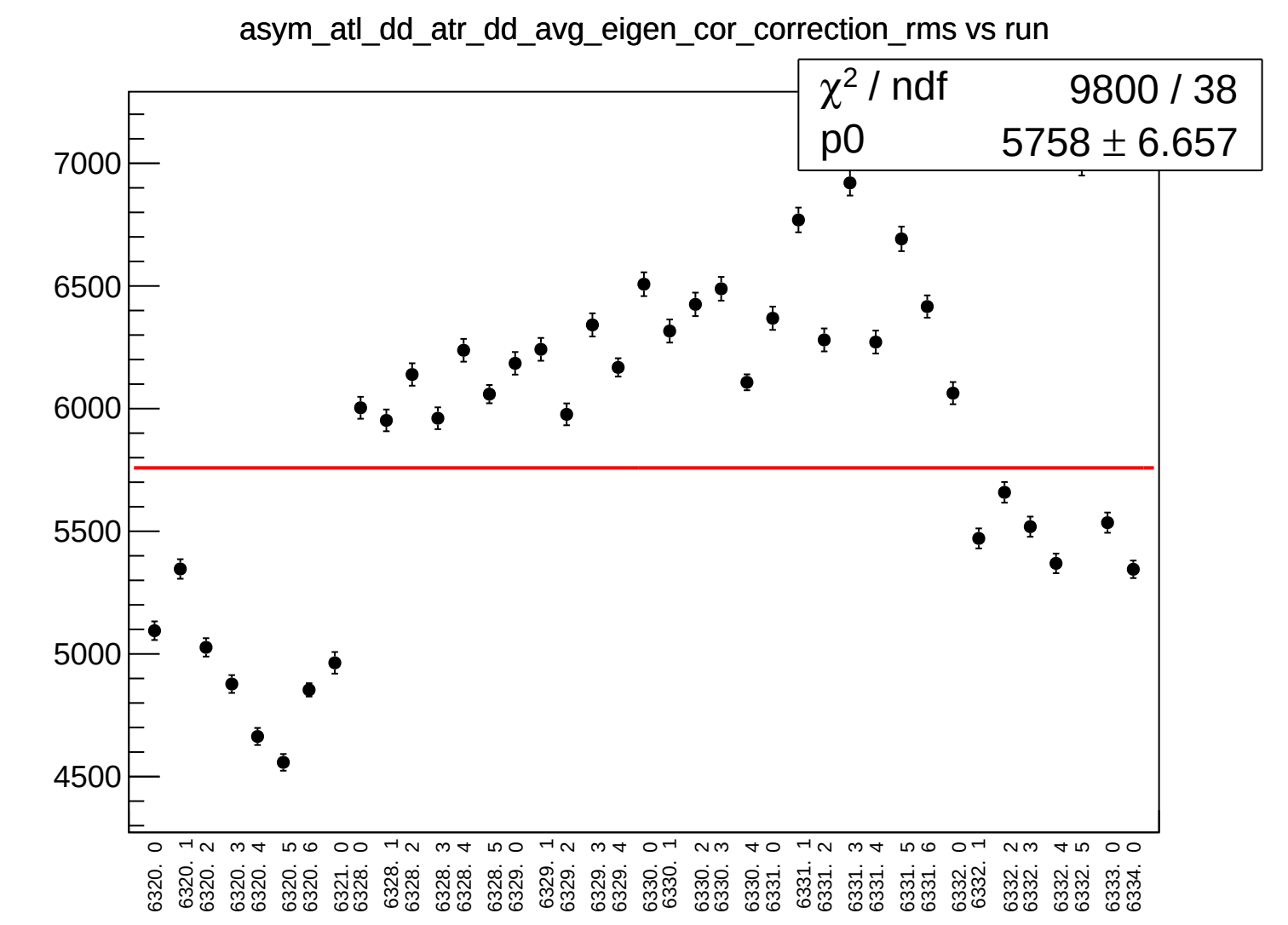

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

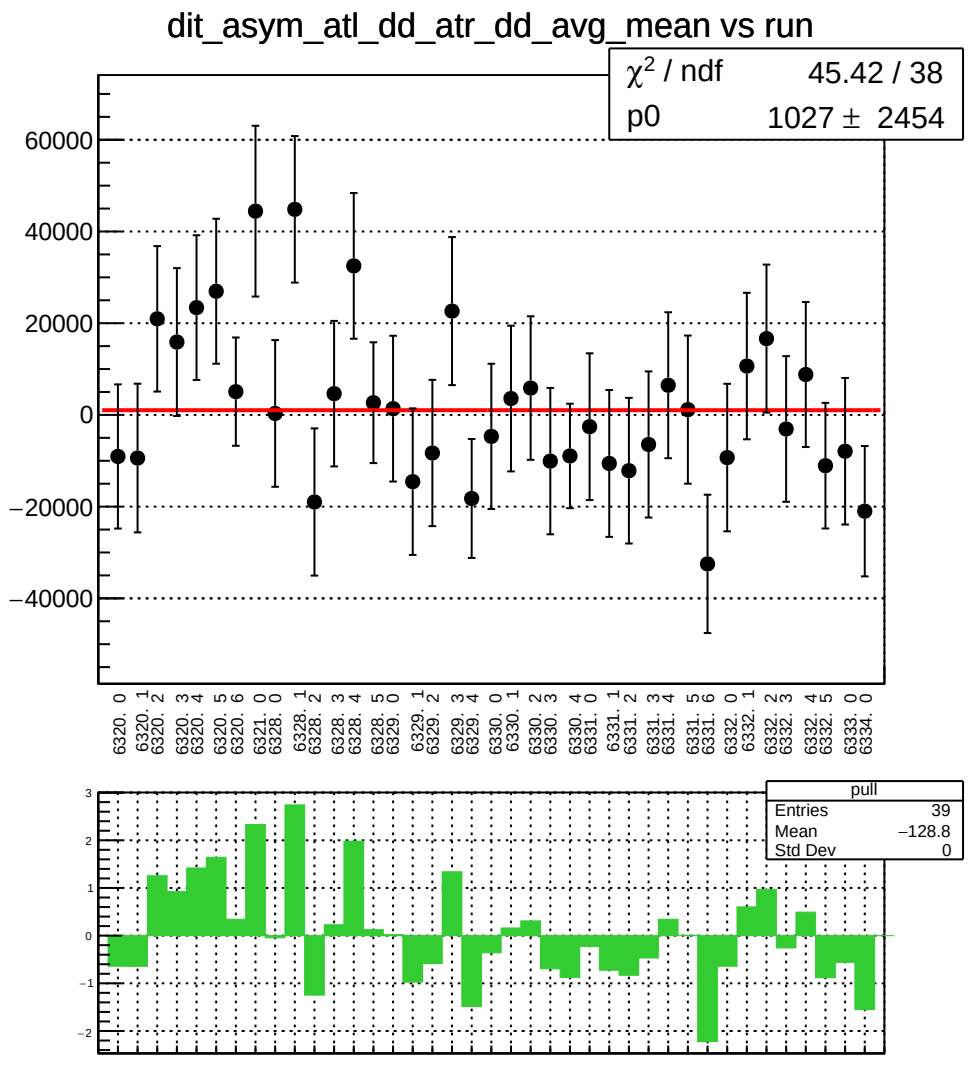

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

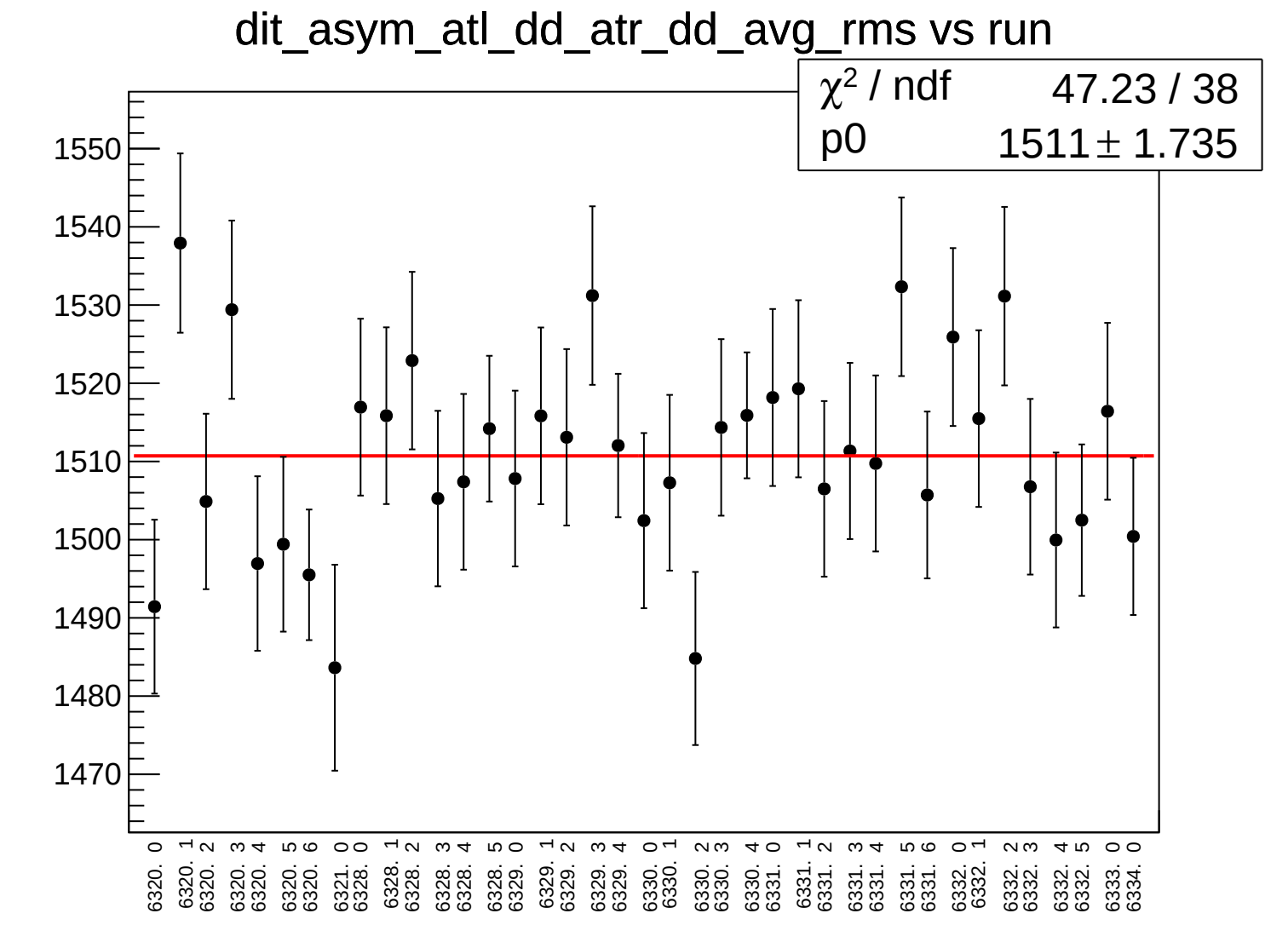

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

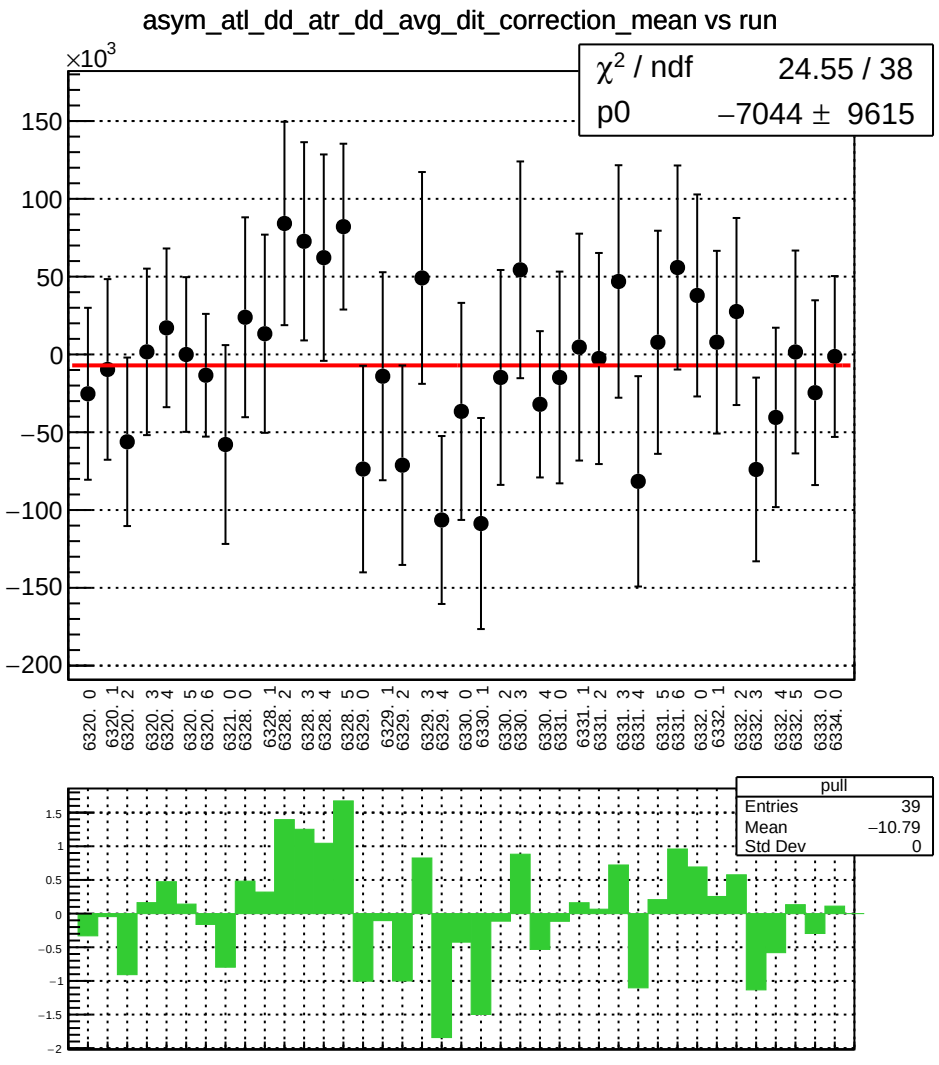

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

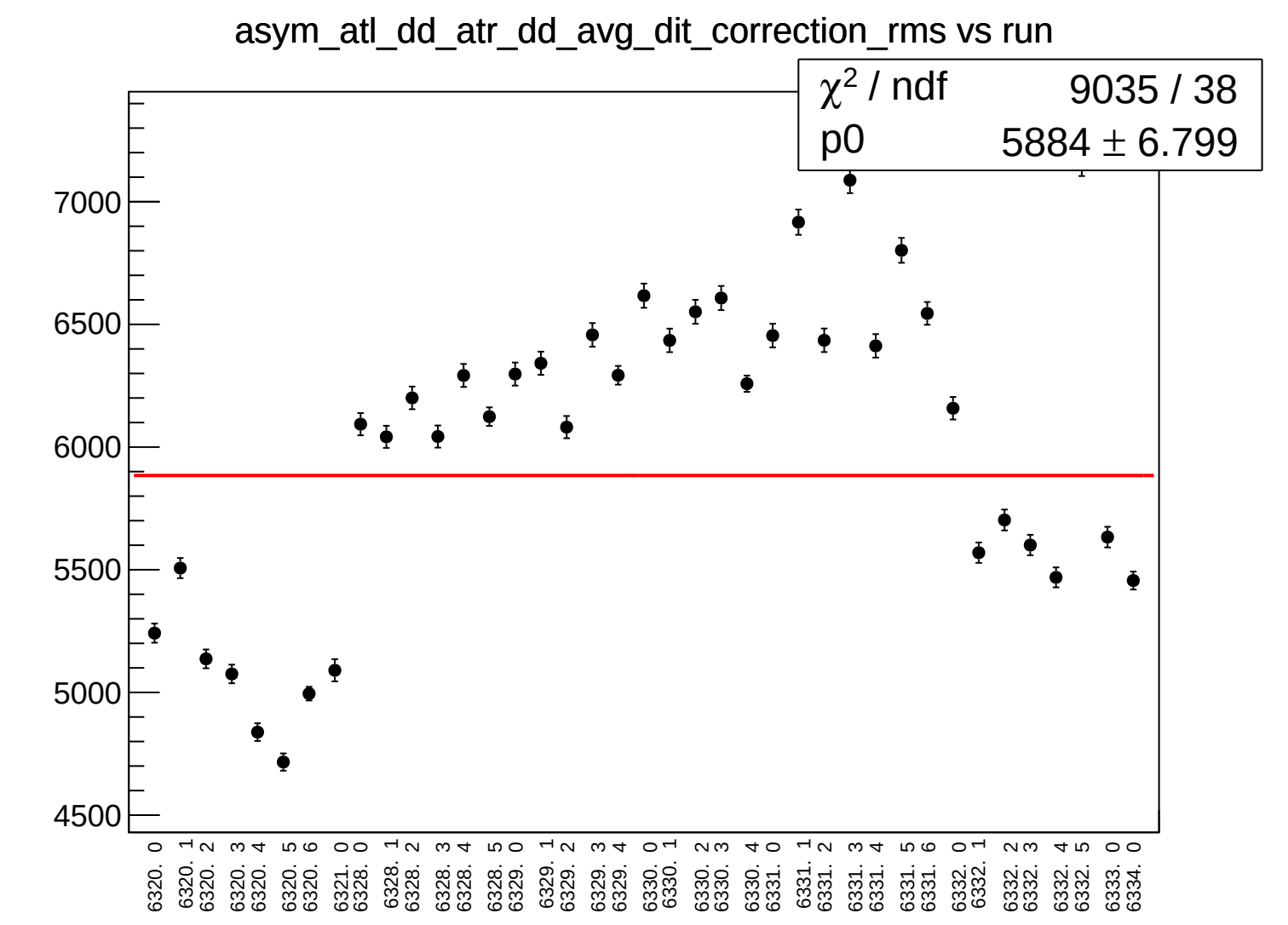

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

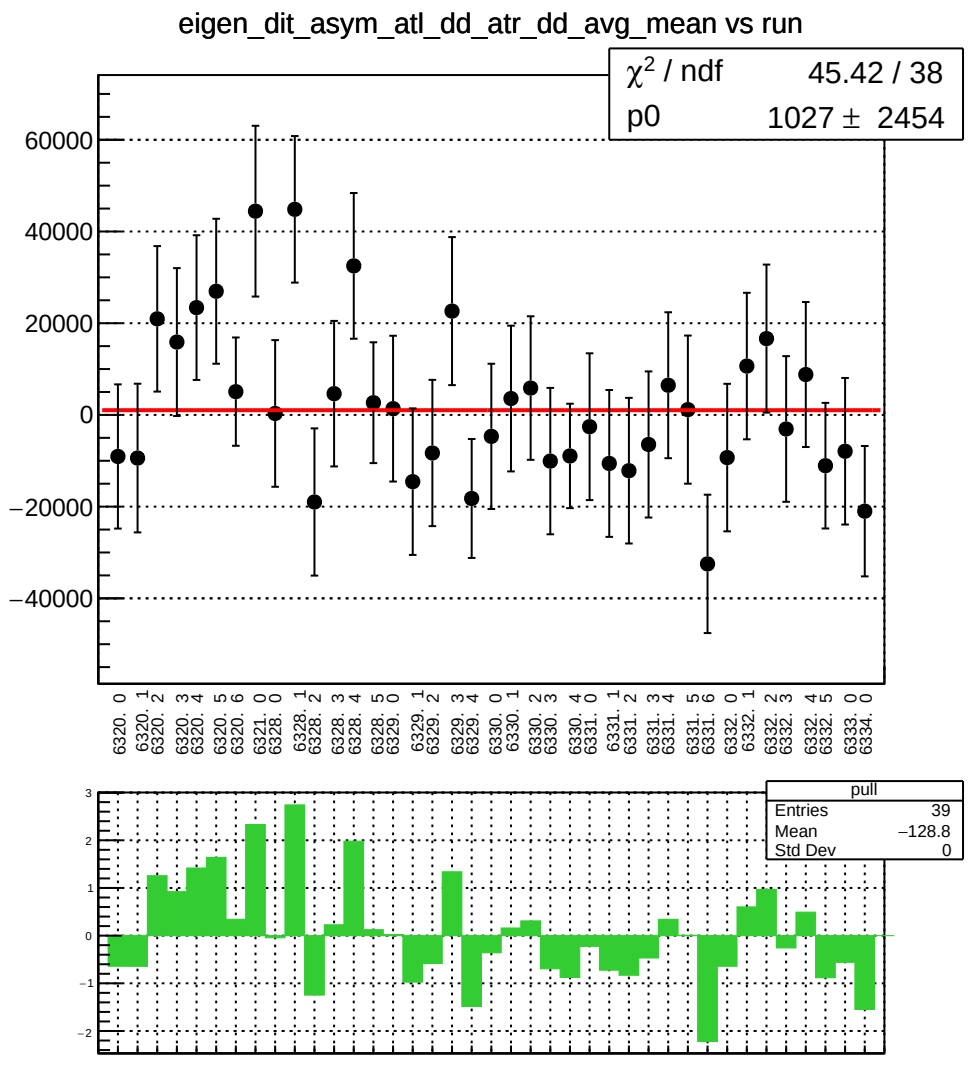

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

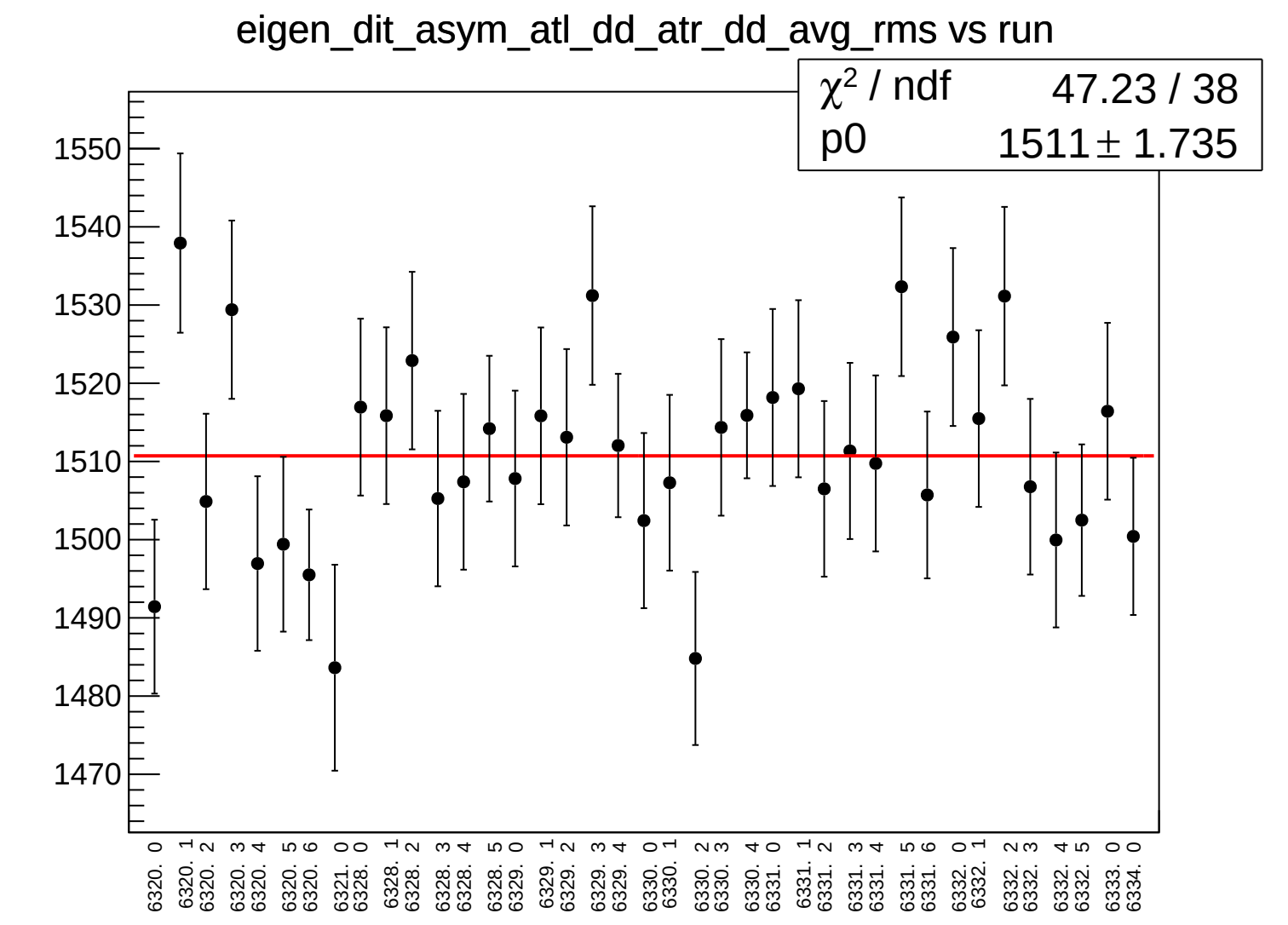

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

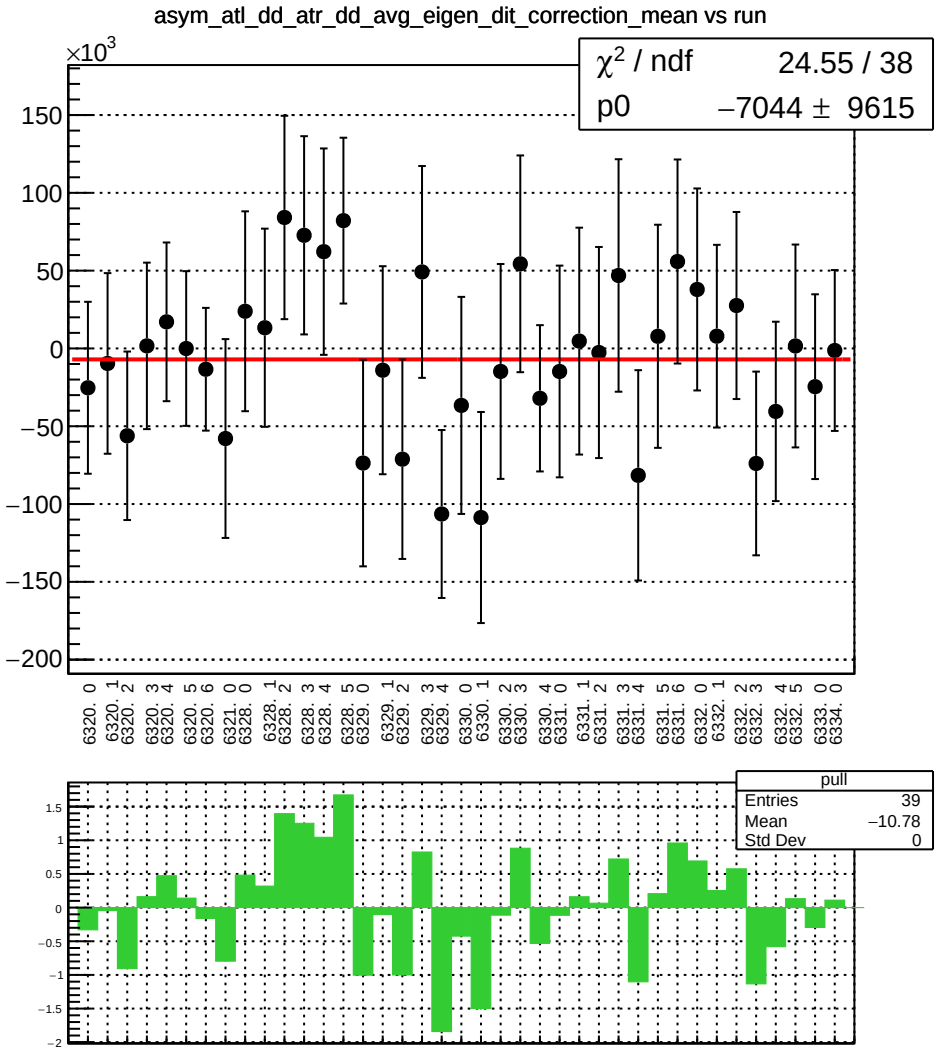

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

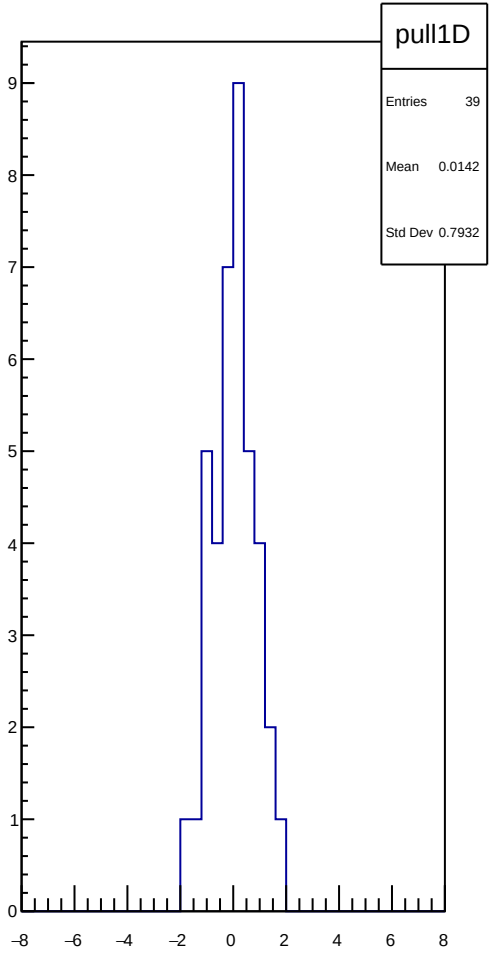

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
×10³
pull
Entries 39
Mean −10.79
Std Dev 0
pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932

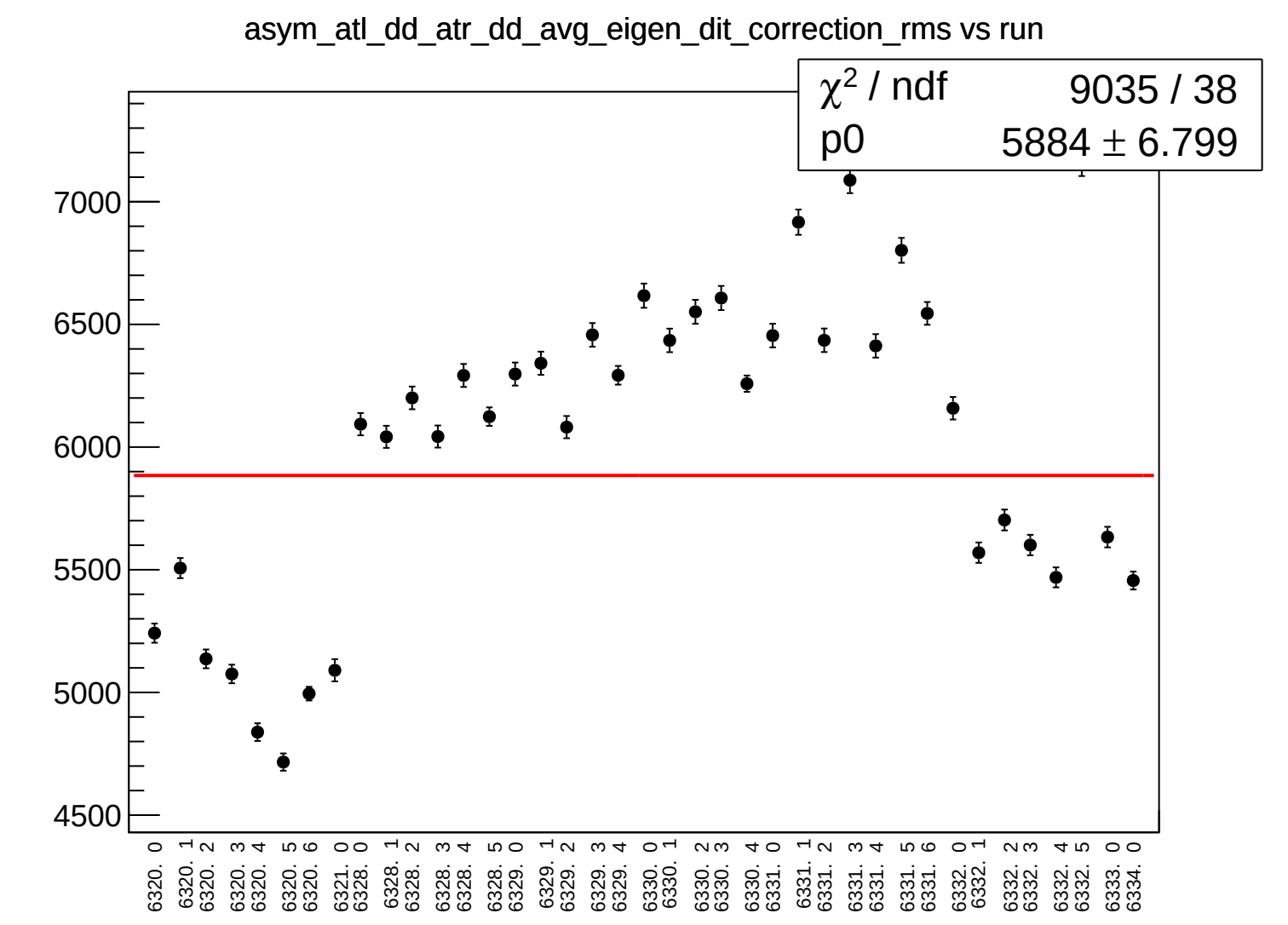

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

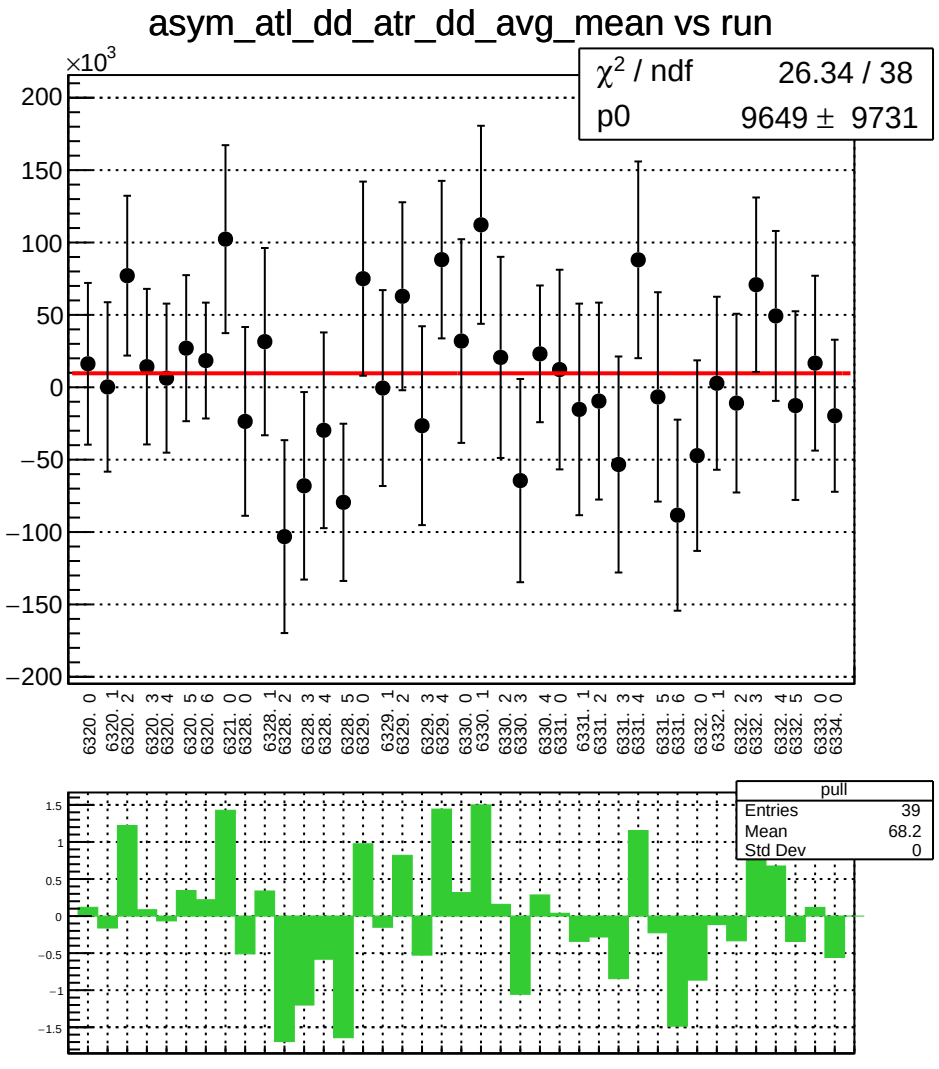

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

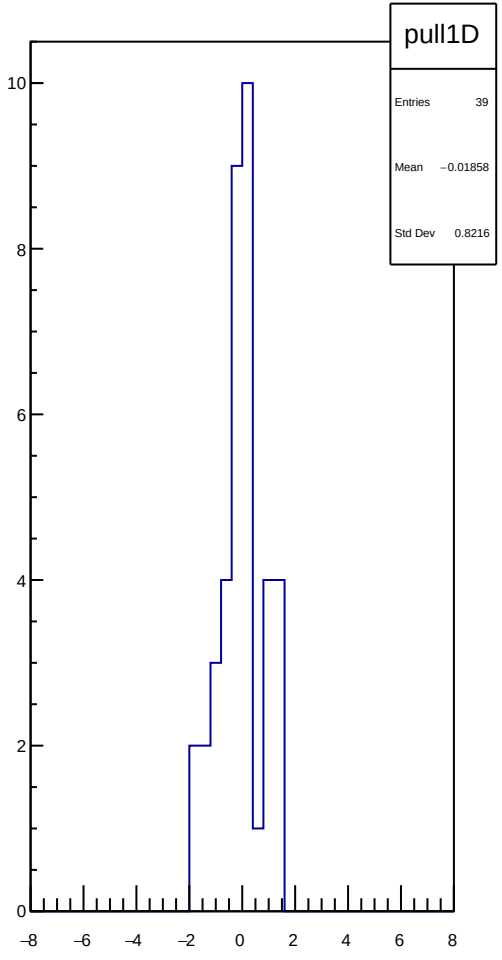

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

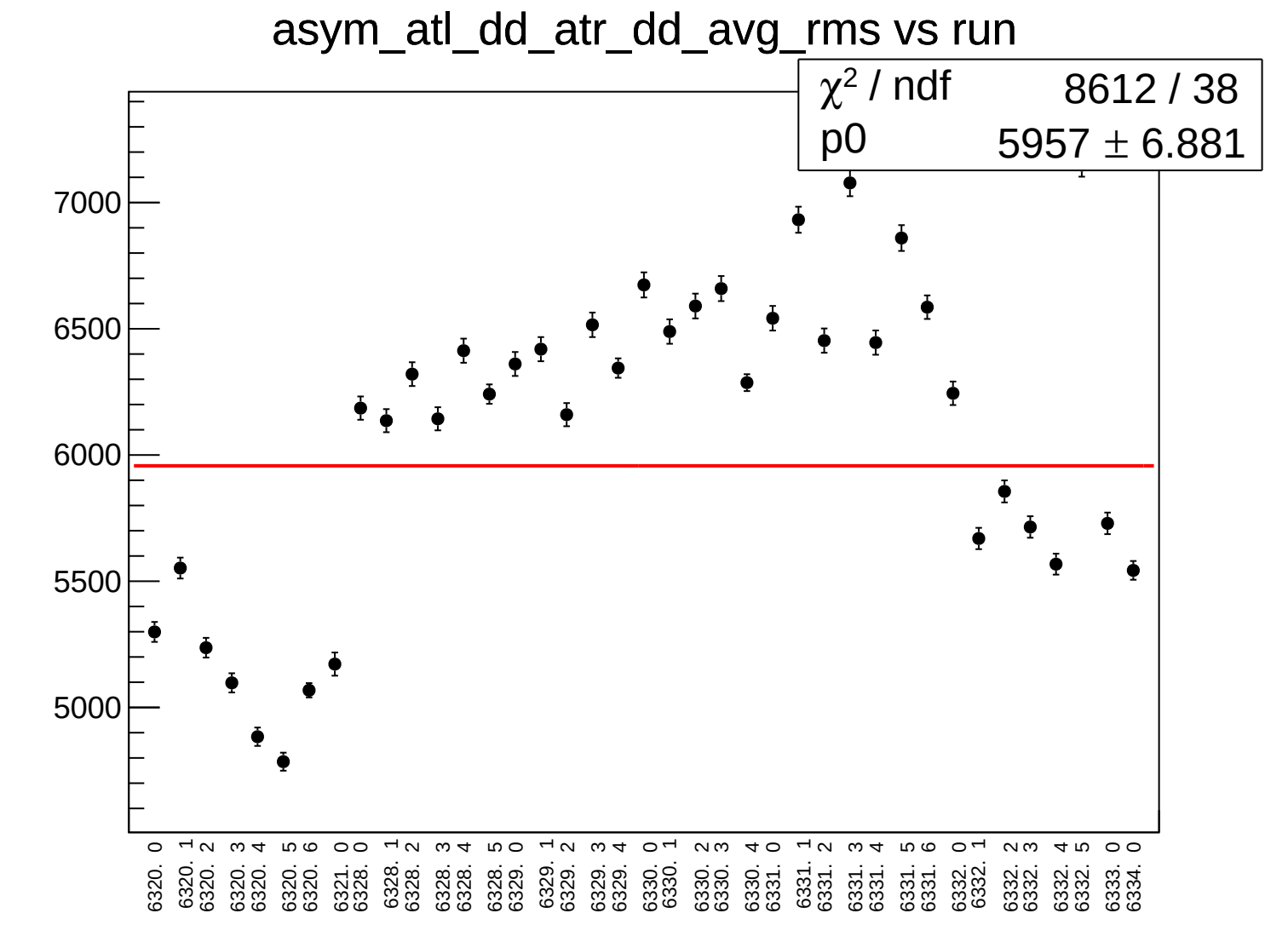

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

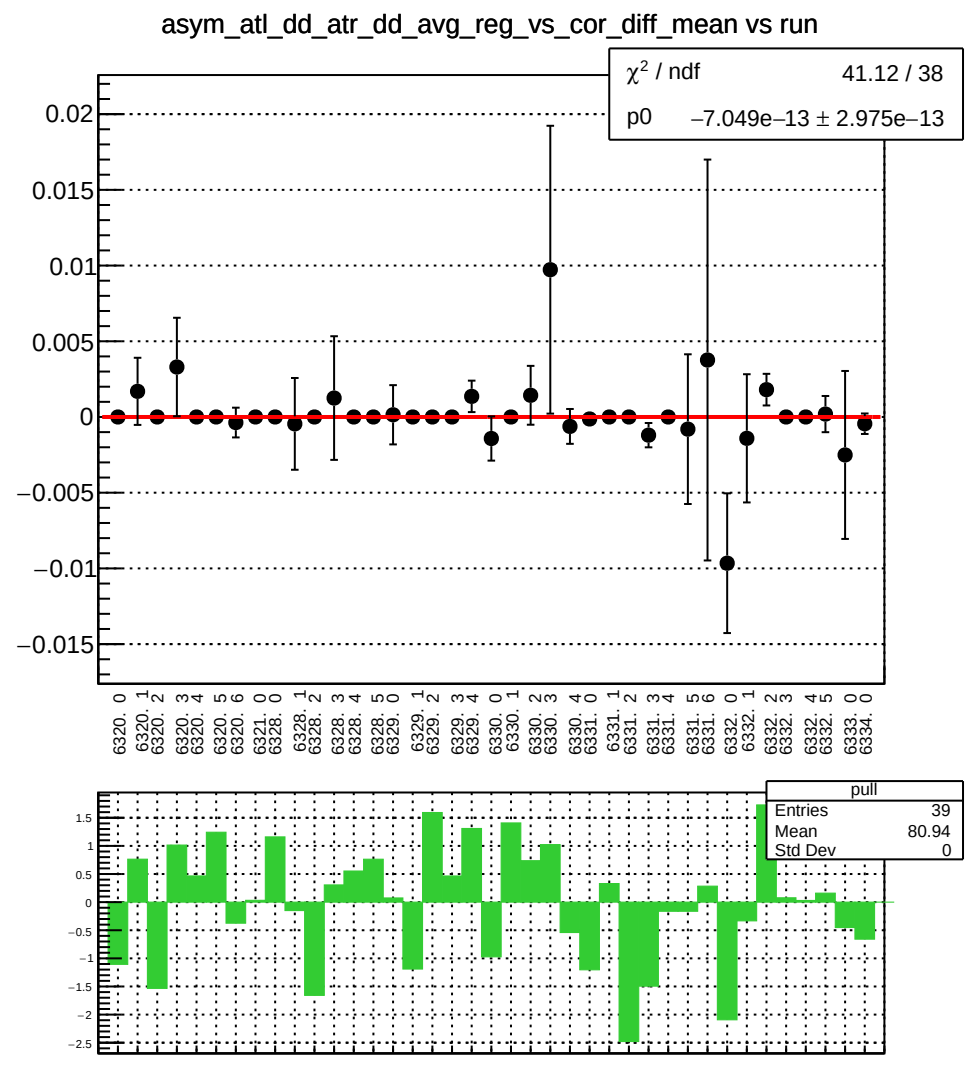

pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

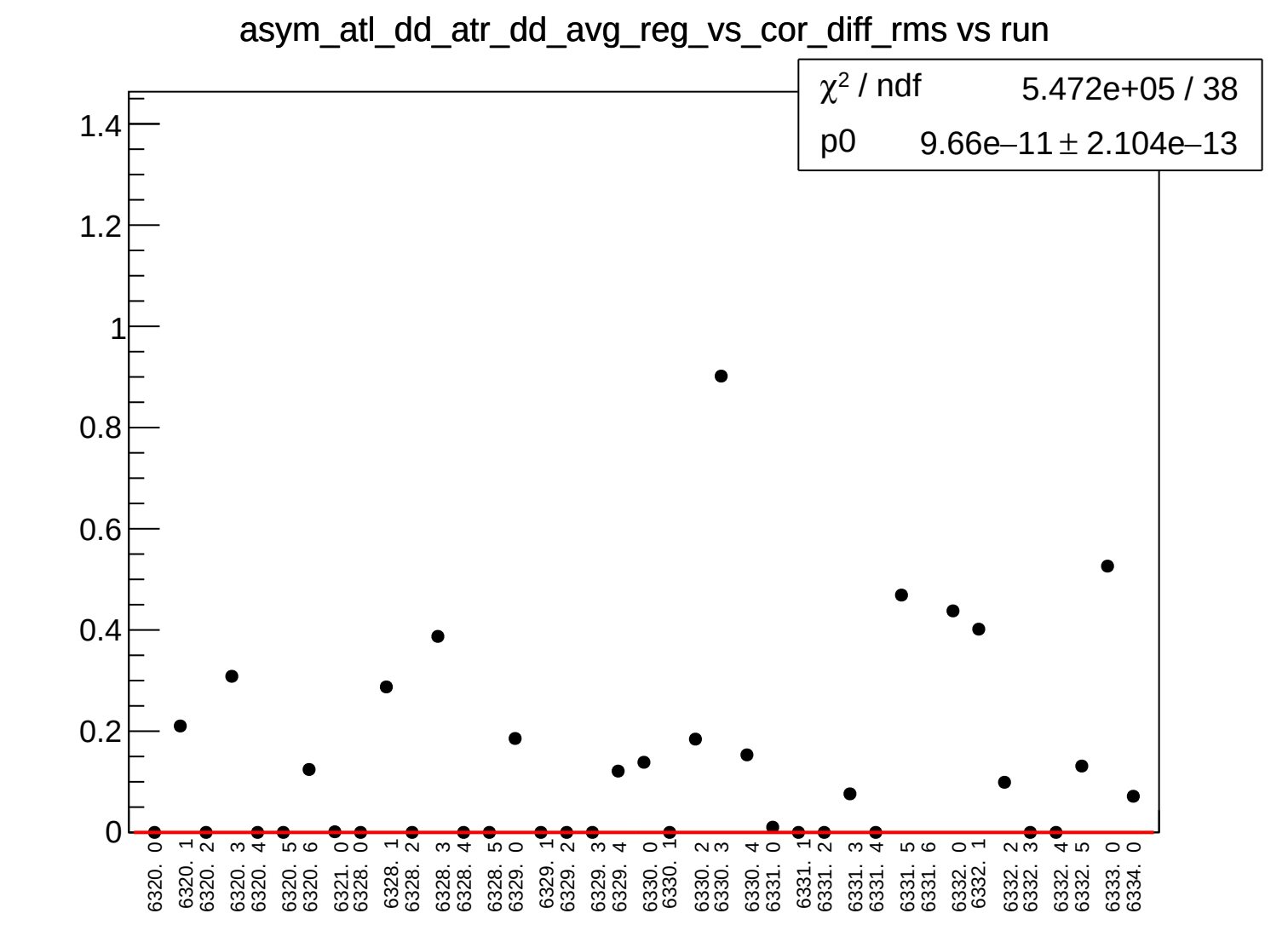

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

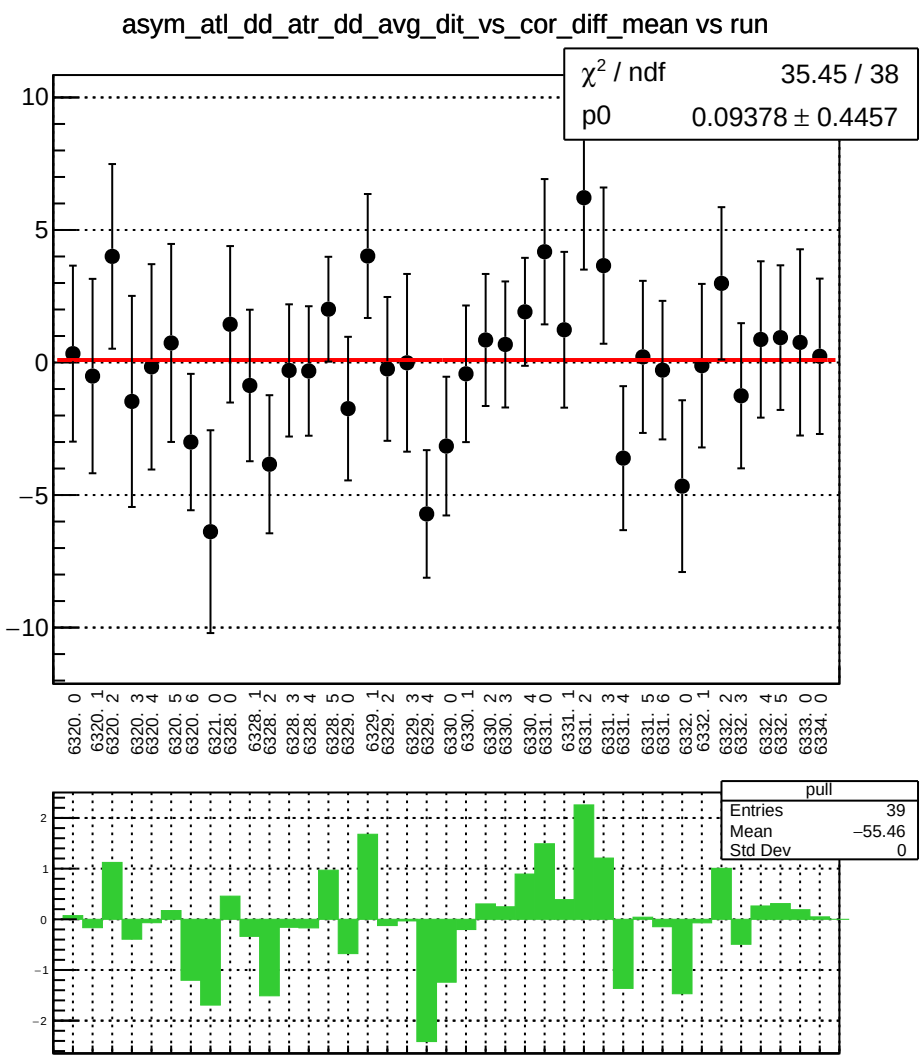

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 26.34 / 38
p0 9649 ± 9731
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

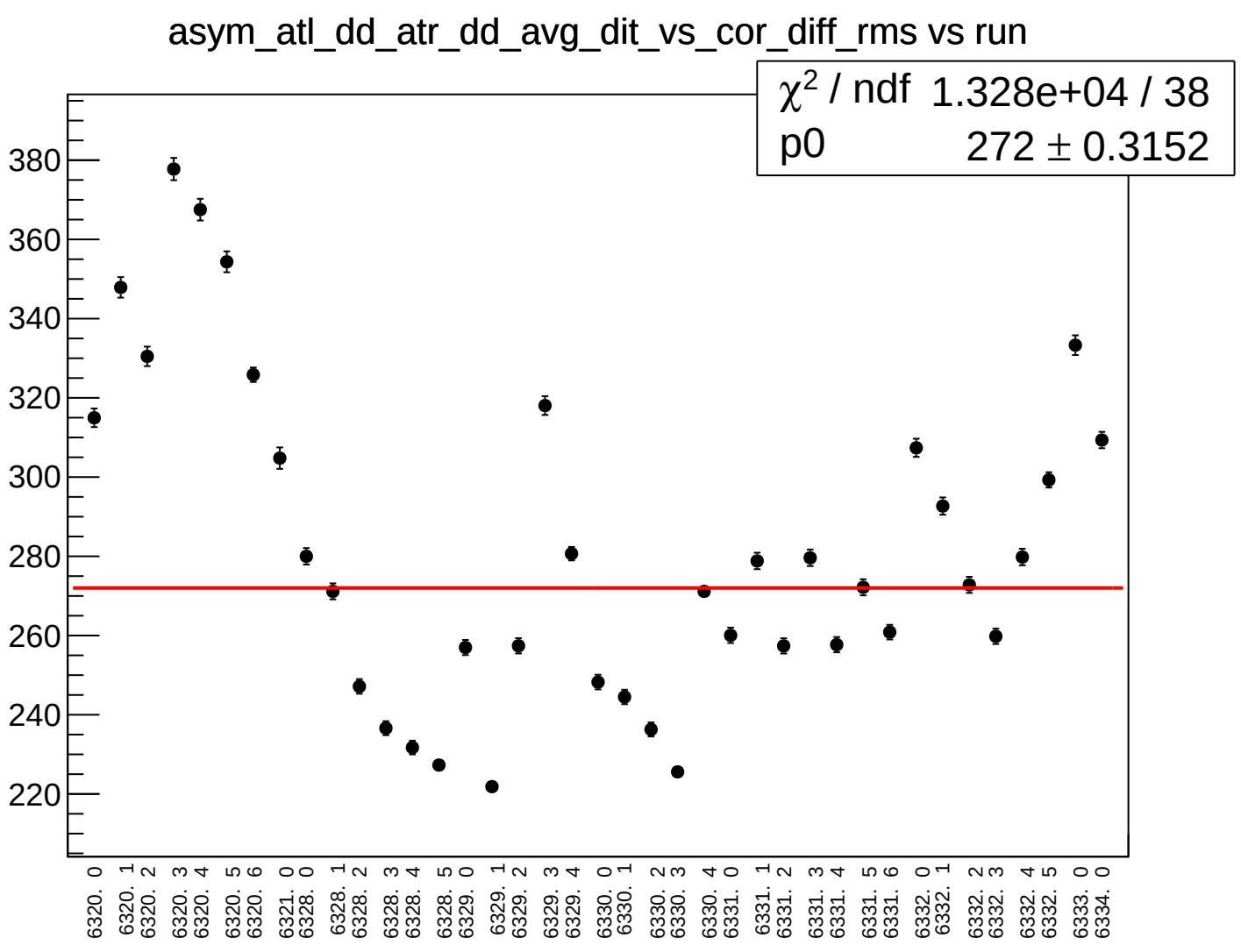

pull1D
Entries 39
Mean −0.01858
Std Dev 0.8216
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

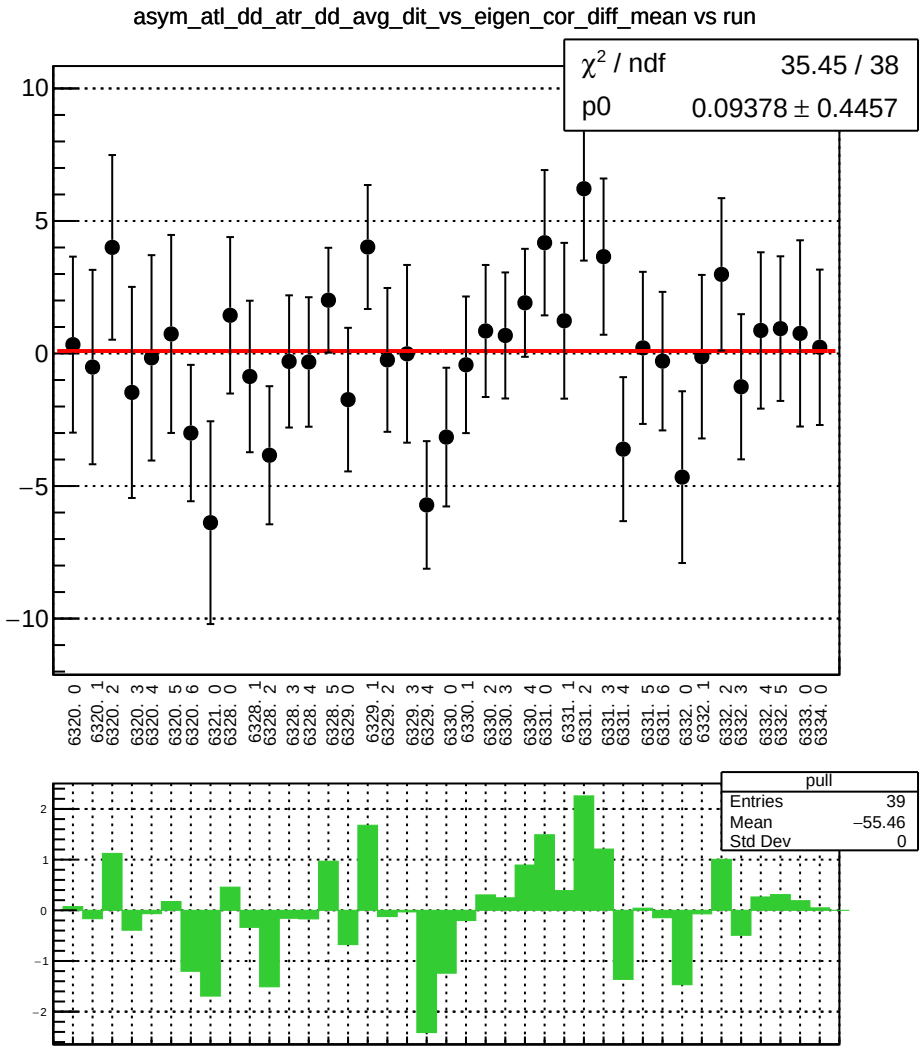

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8612 / 38
p0 5957 ± 6.881
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

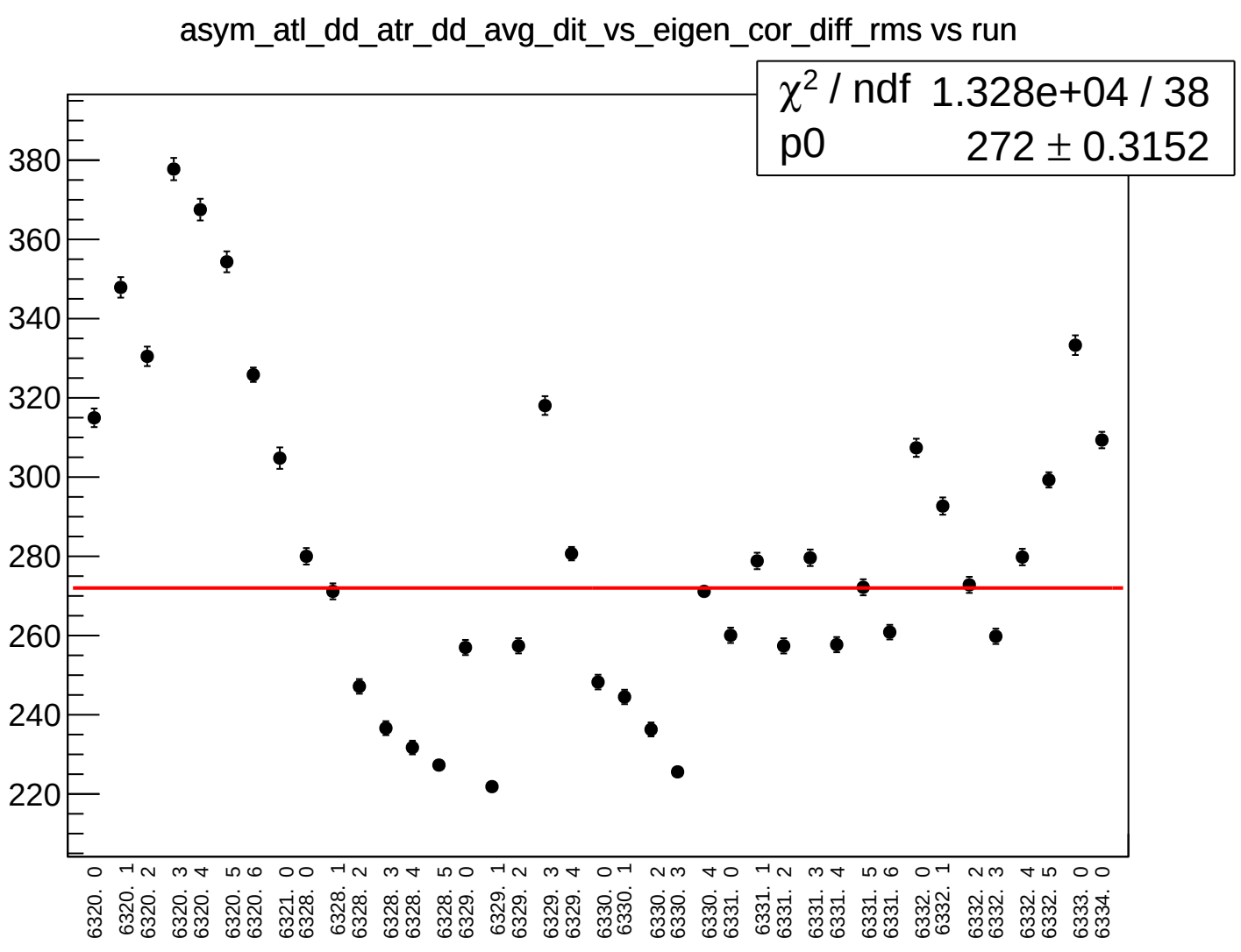

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.12 / 38
p0 −7.049e−13 ± 2.975e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 80.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.0266
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

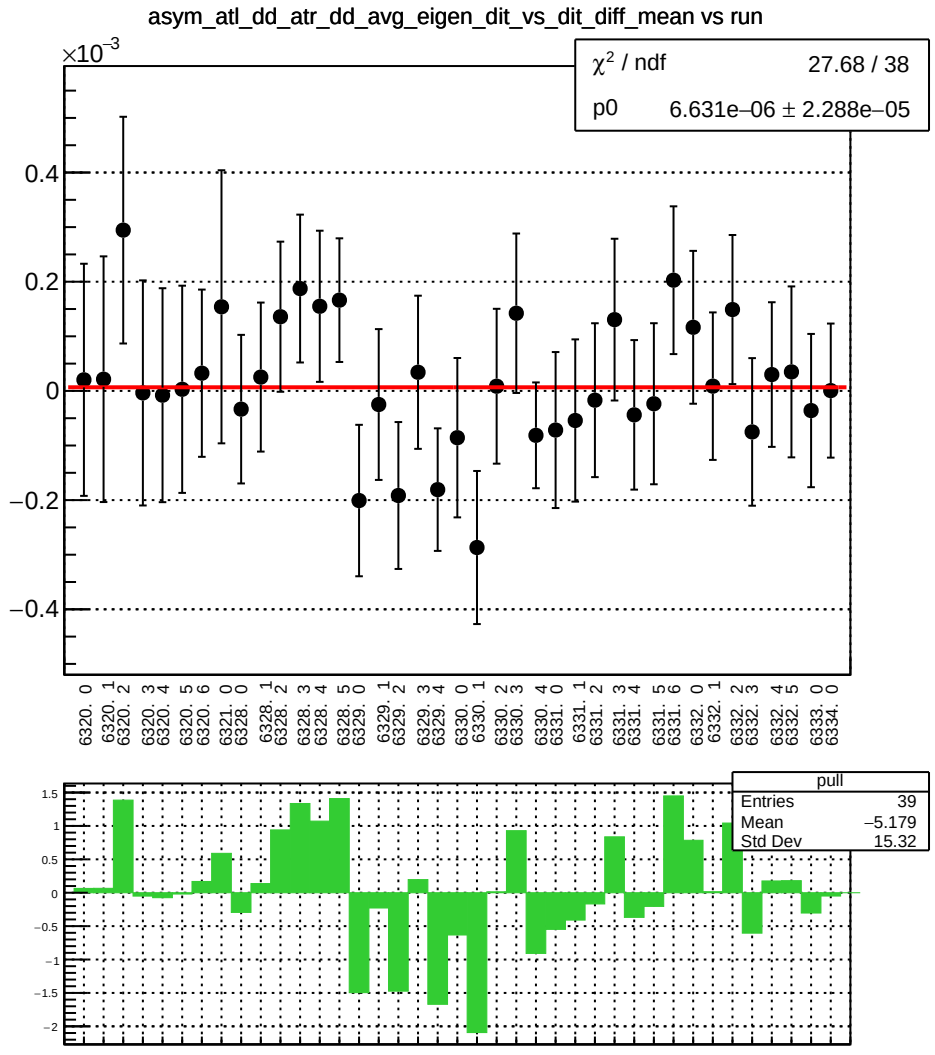

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.472e+05 / 38
p0 9.66e−11 ± 2.104e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

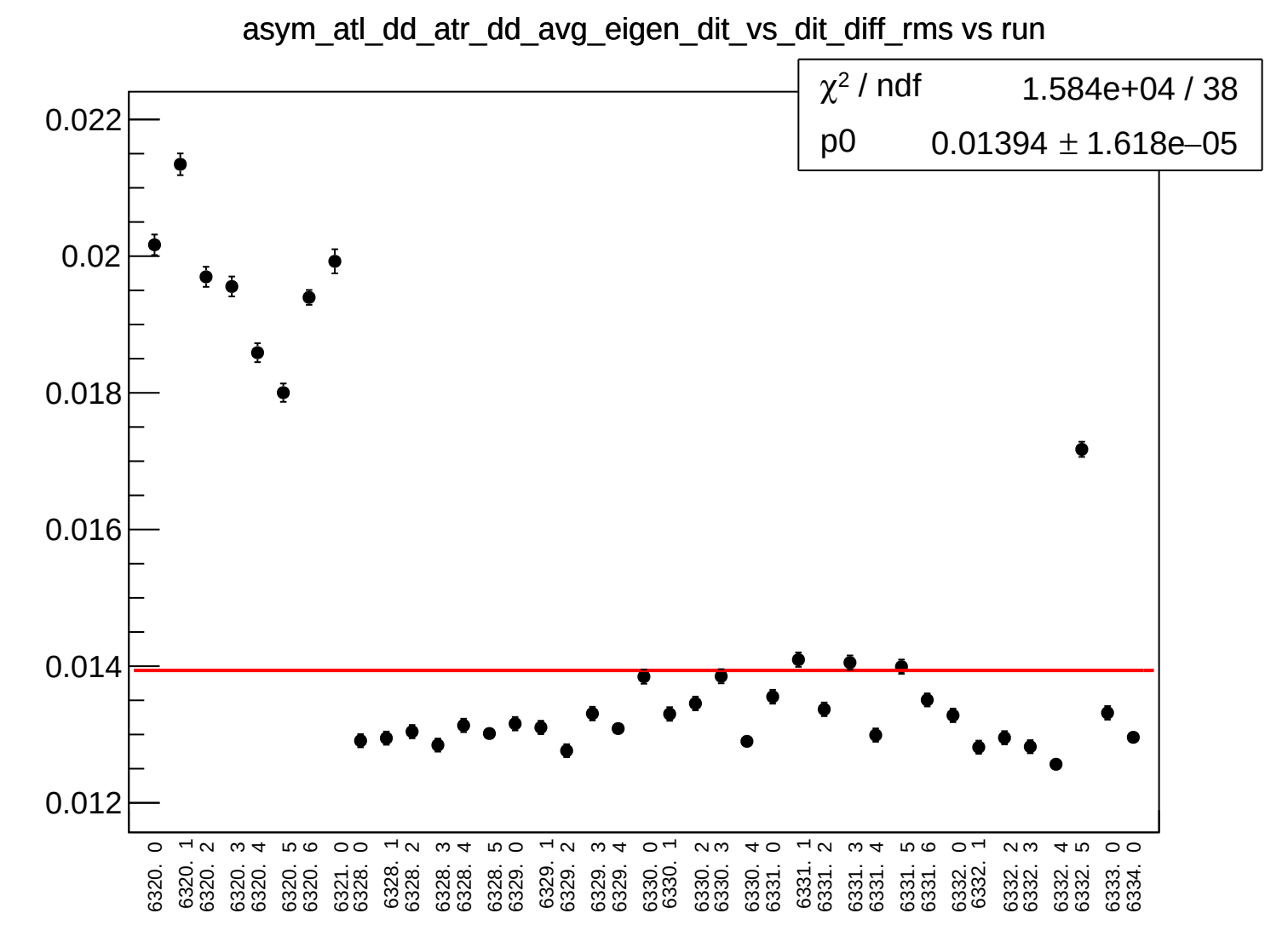

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

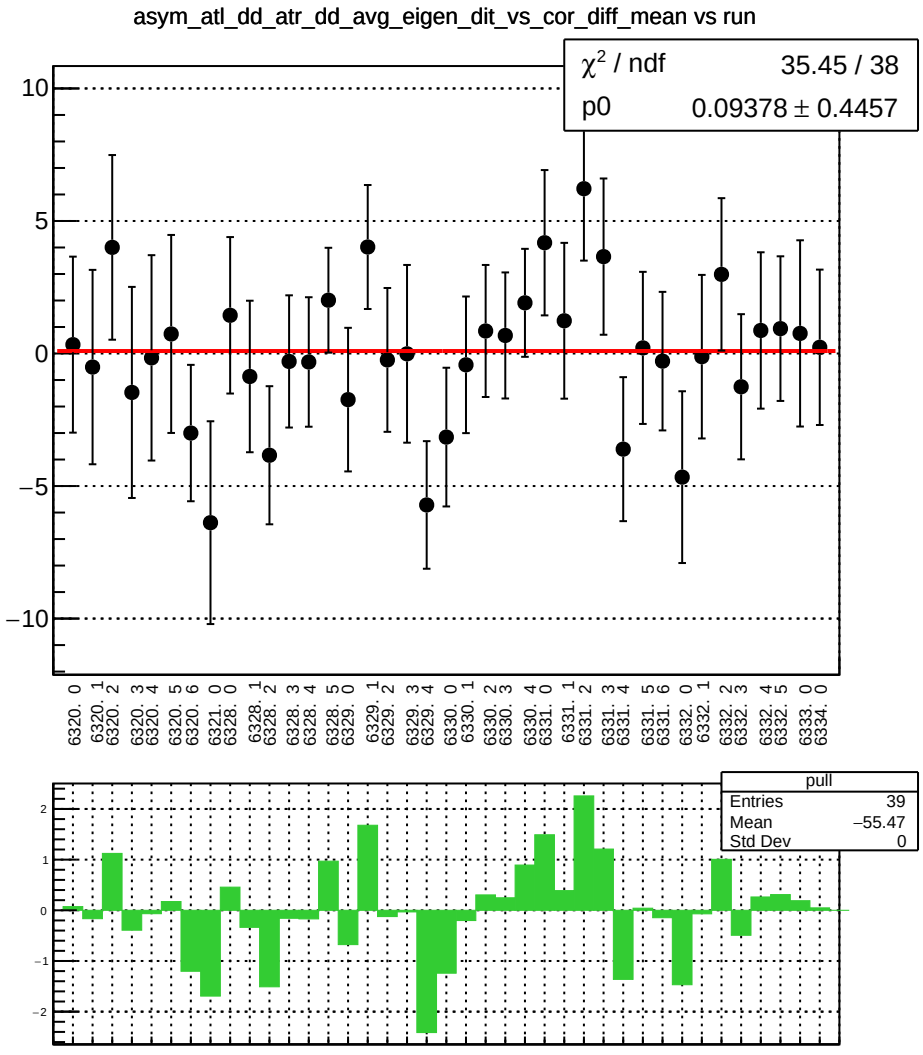

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

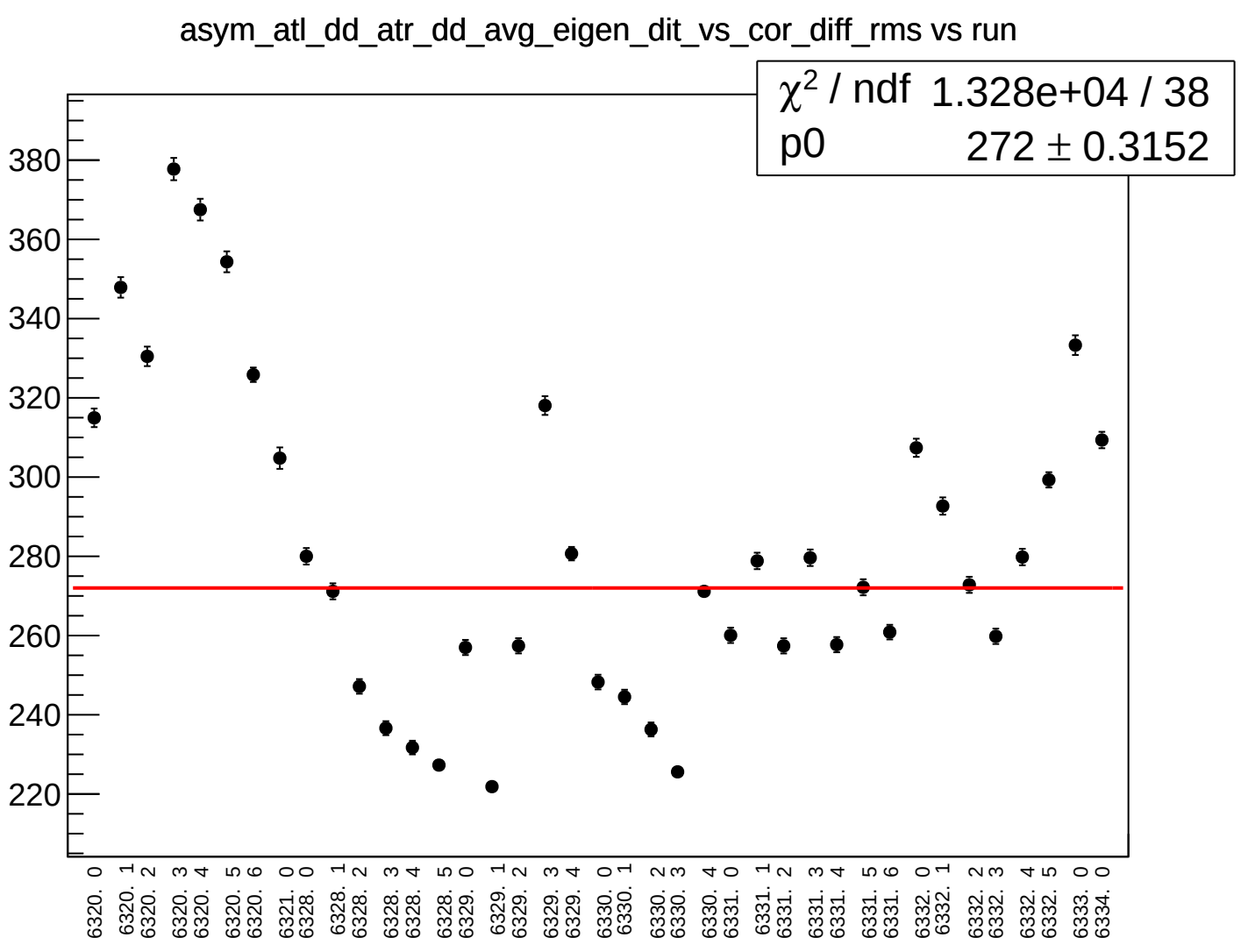

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

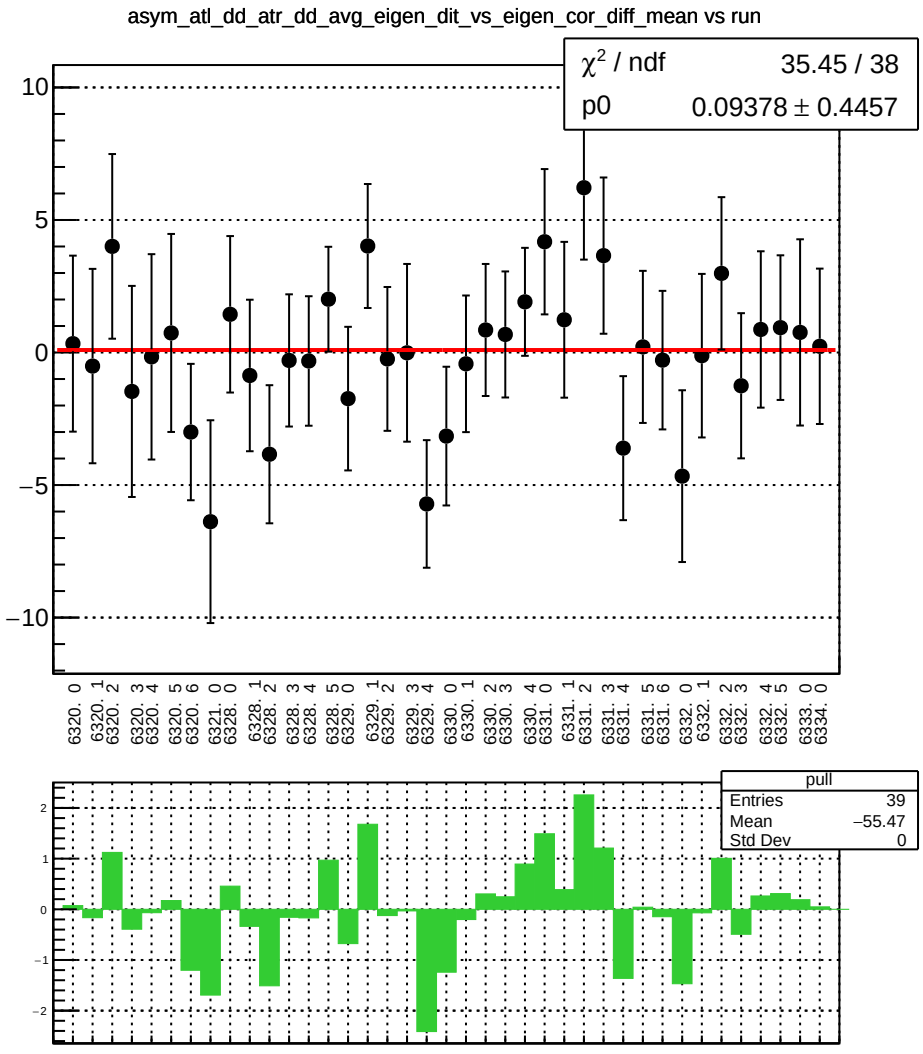

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

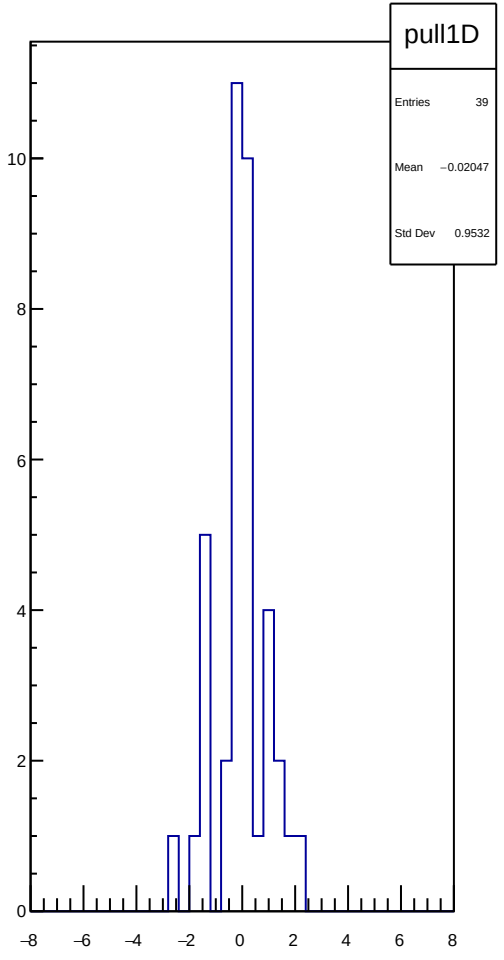

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.68 / 38
p0 6.631e−06 ± 2.288e−05
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.179
Std Dev 15.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03075
Std Dev 0.8419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

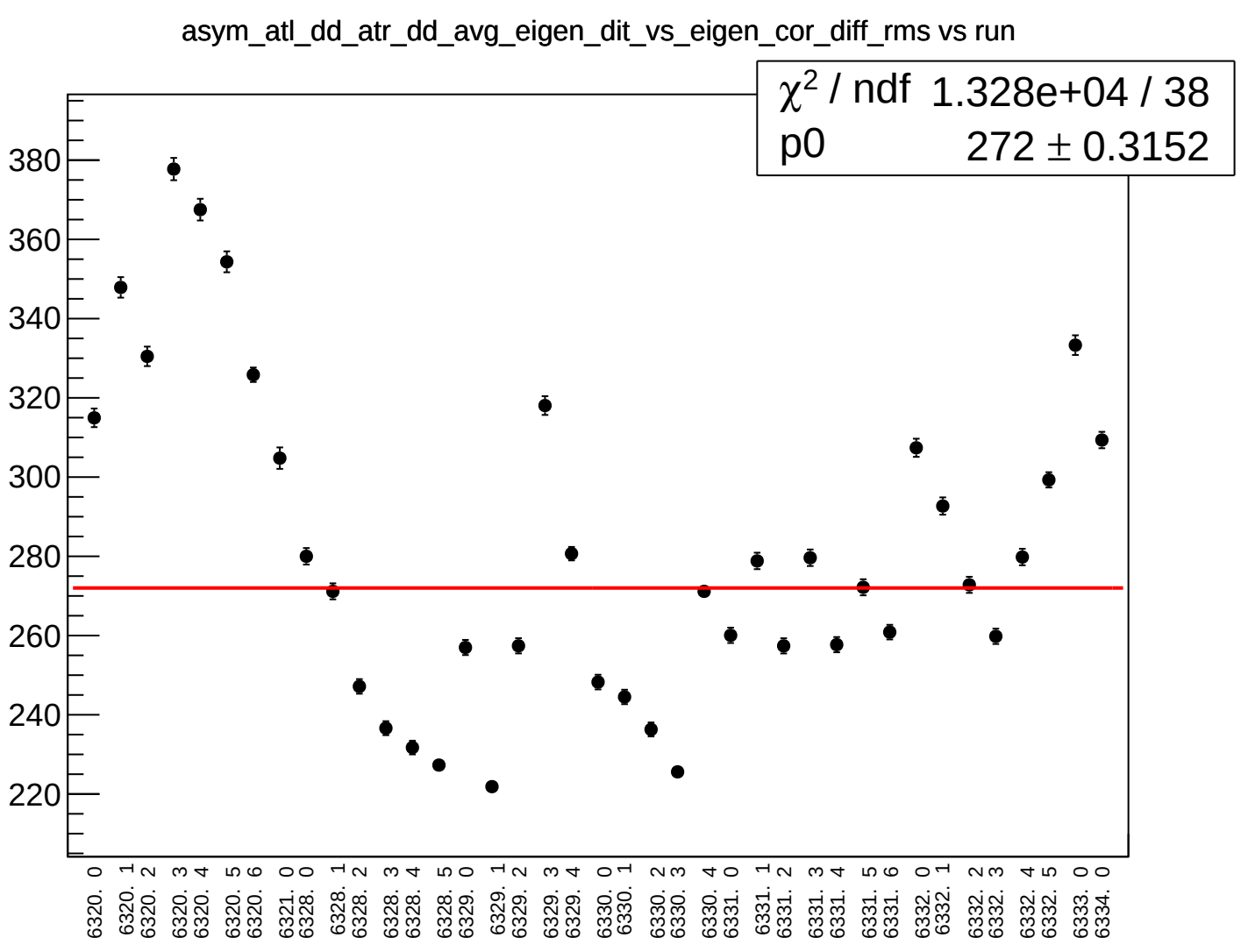

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.584e+04 / 38
p0 0.01394 ± 1.618e–05
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

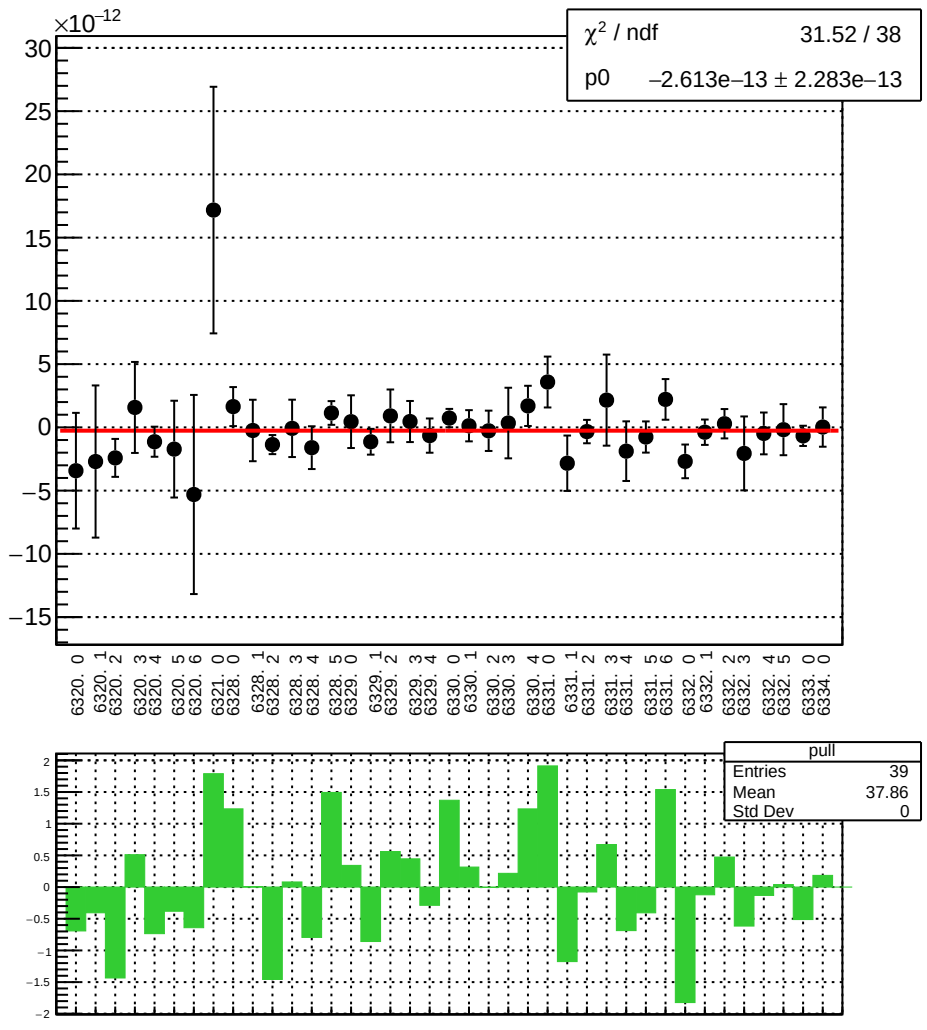

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

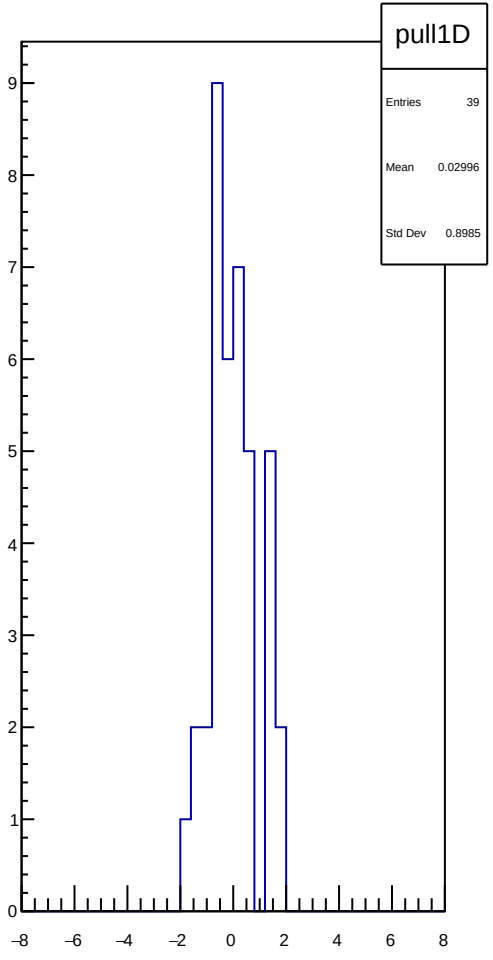

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

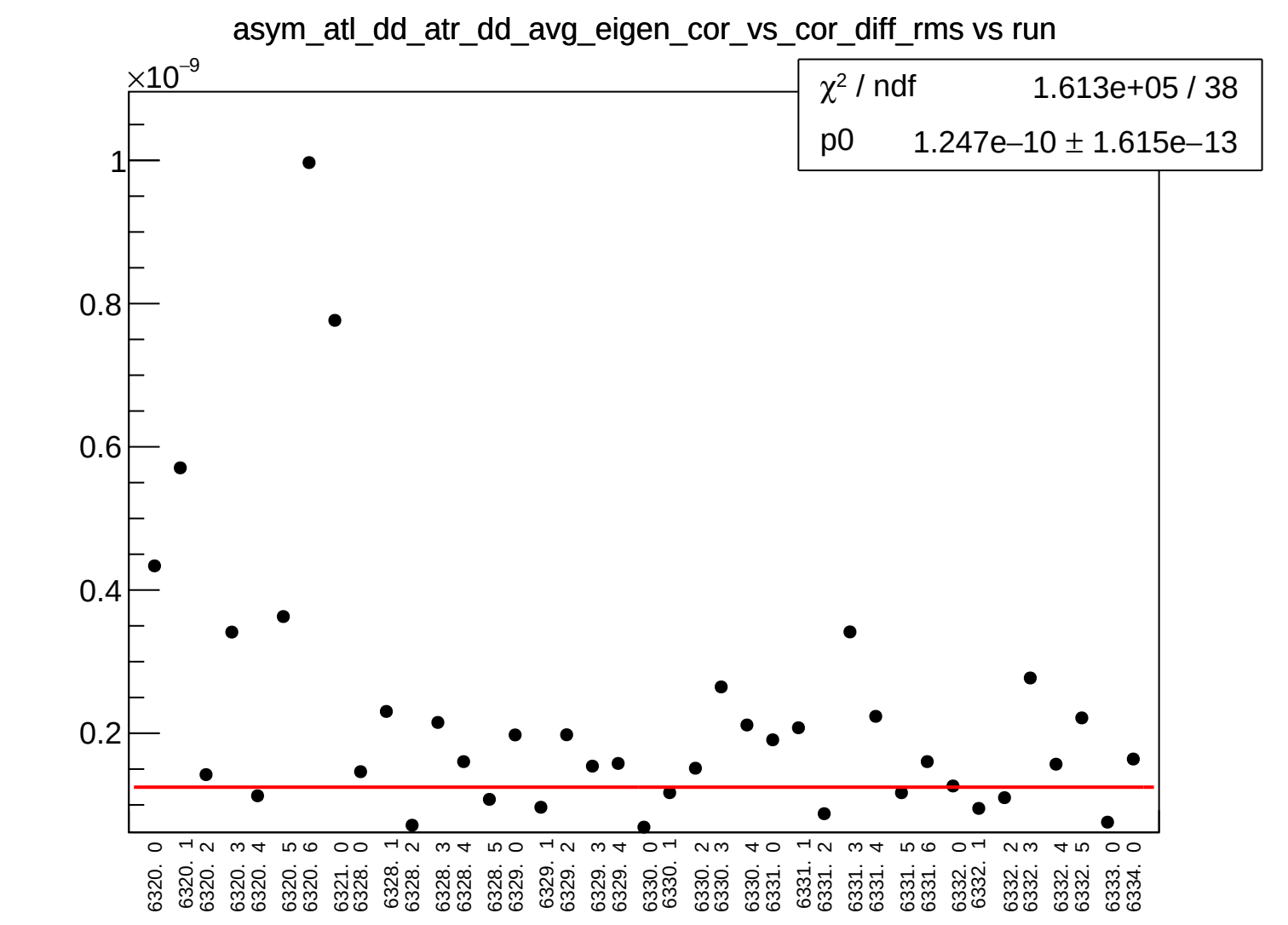

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2

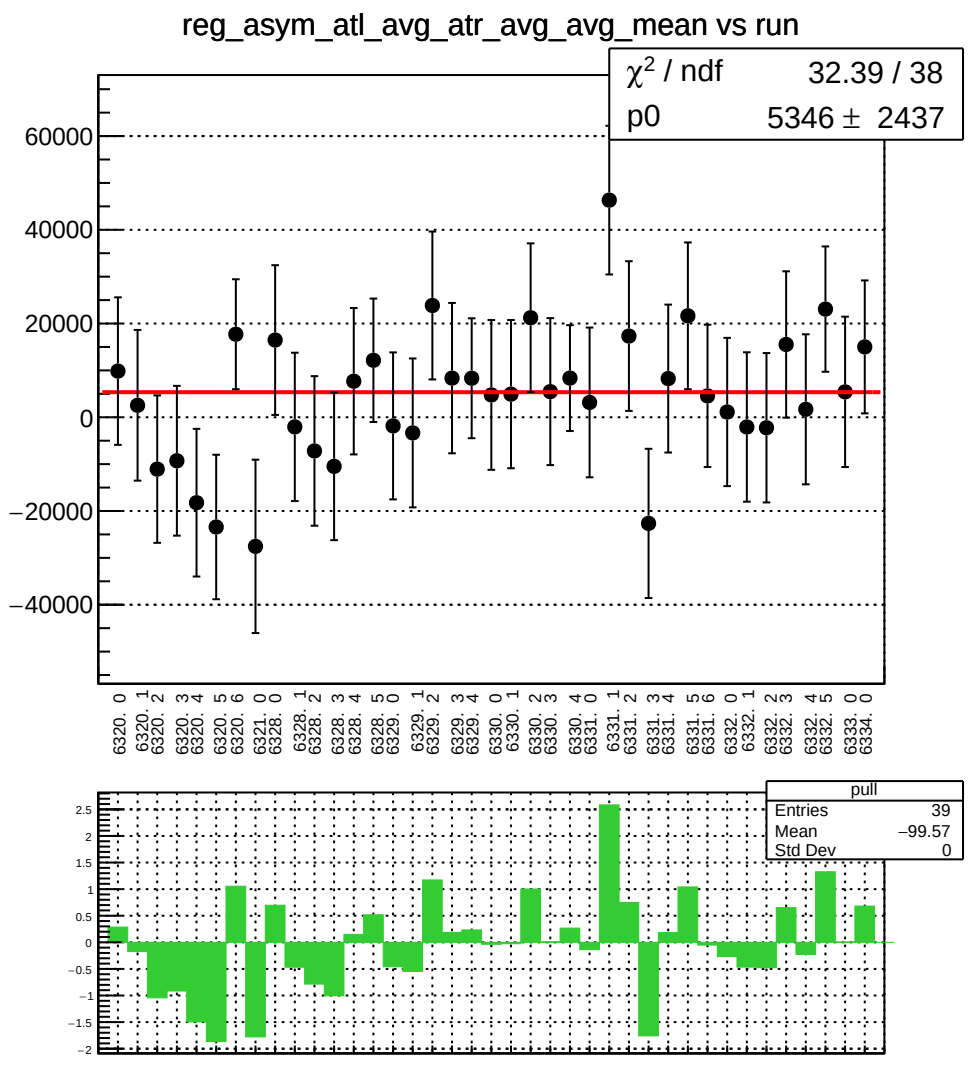

pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

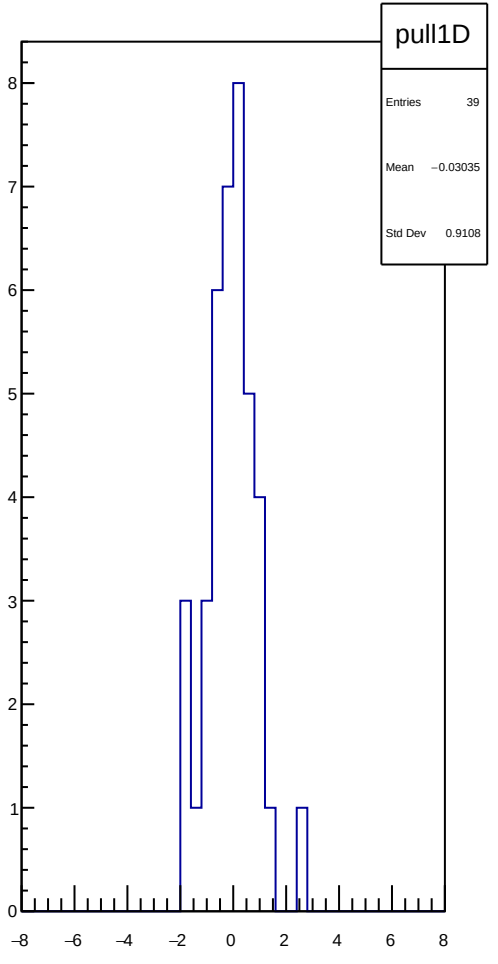

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

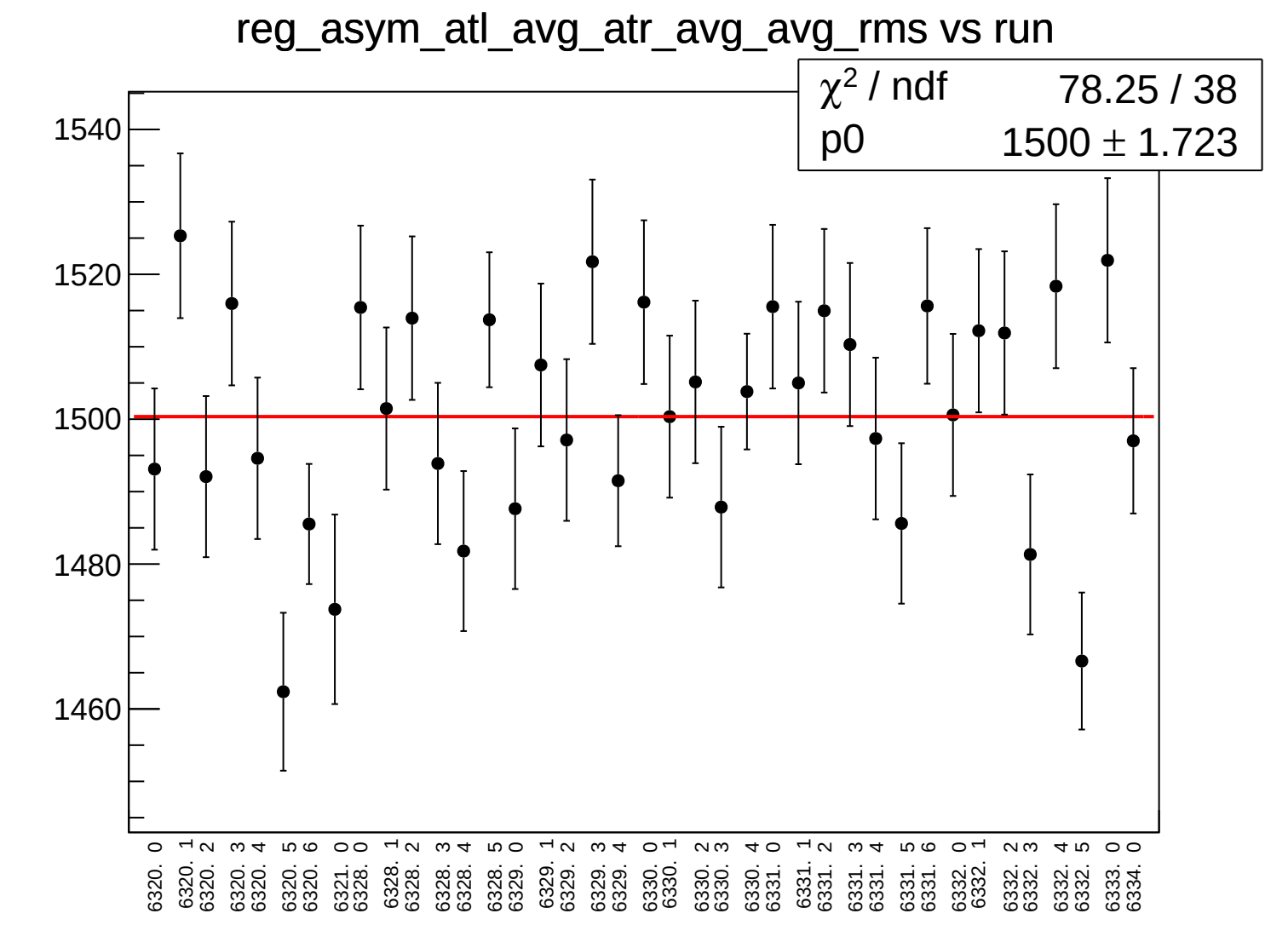

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.52 / 38
p0 −2.613e−13 ± 2.283e−13
pull
Entries 39
Mean 37.86
Std Dev 0

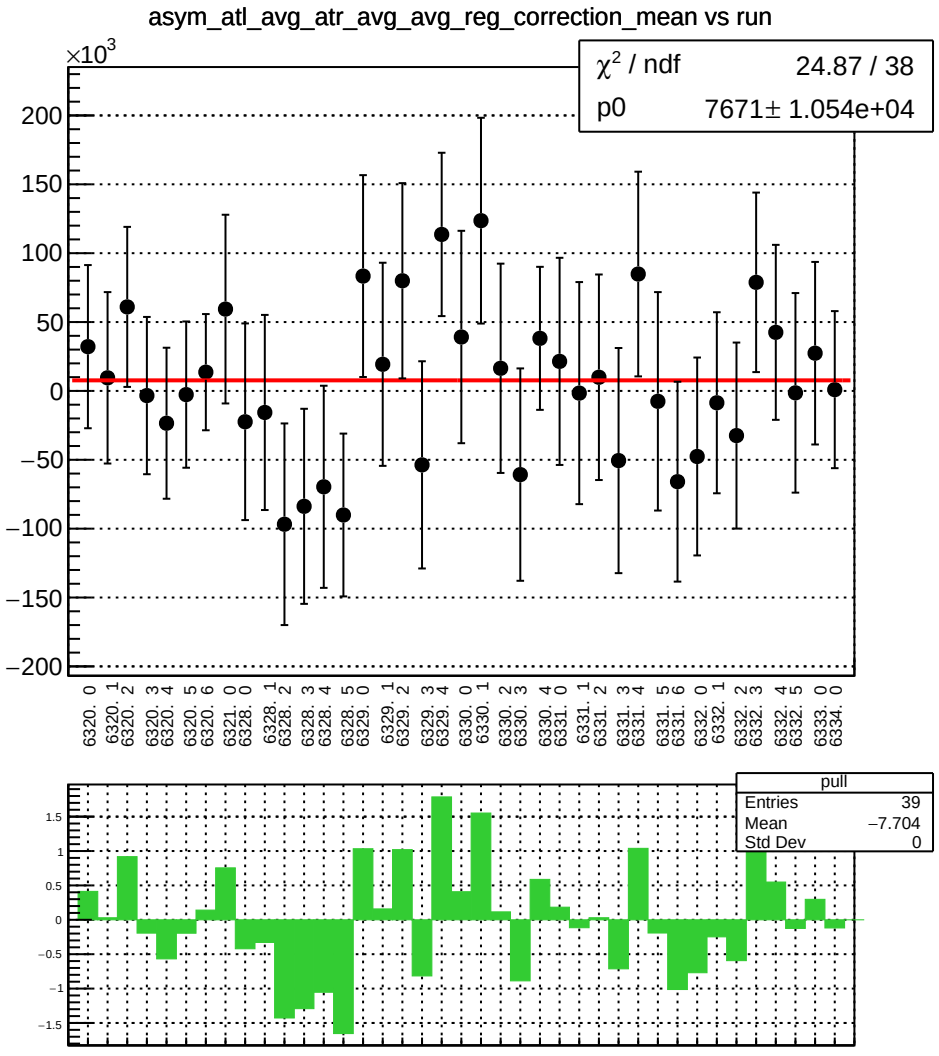

pull1D
Entries 39
Mean 0.02996
Std Dev 0.8985

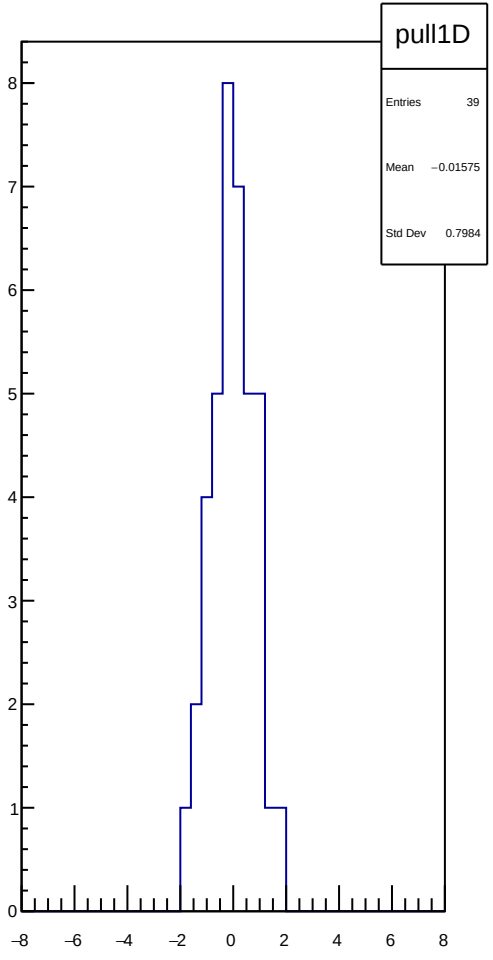

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.613e+05 / 38
p0 1.247e−10 ± 1.615e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

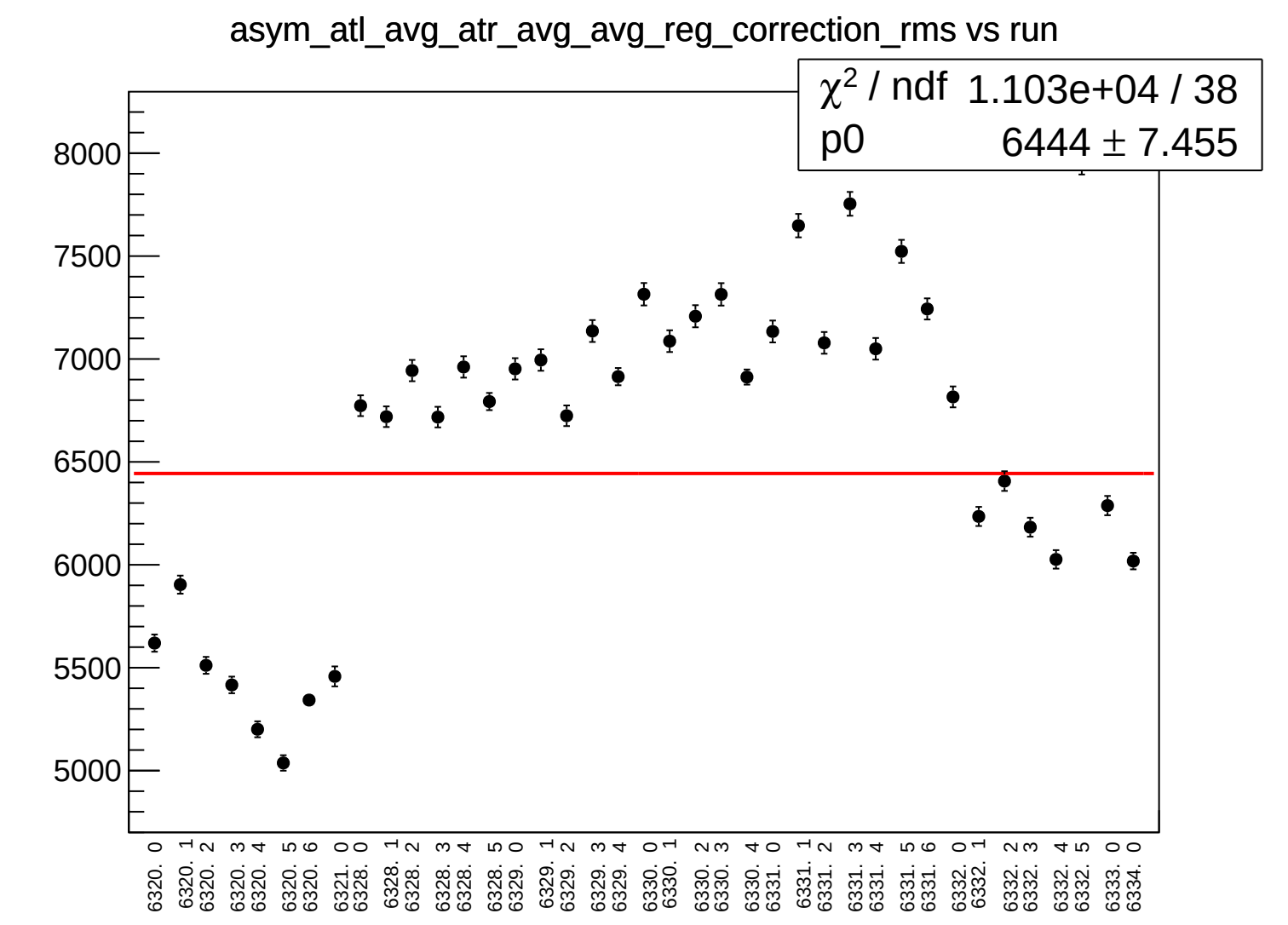

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.39 / 38
p0 5346 ± 2437
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −99.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

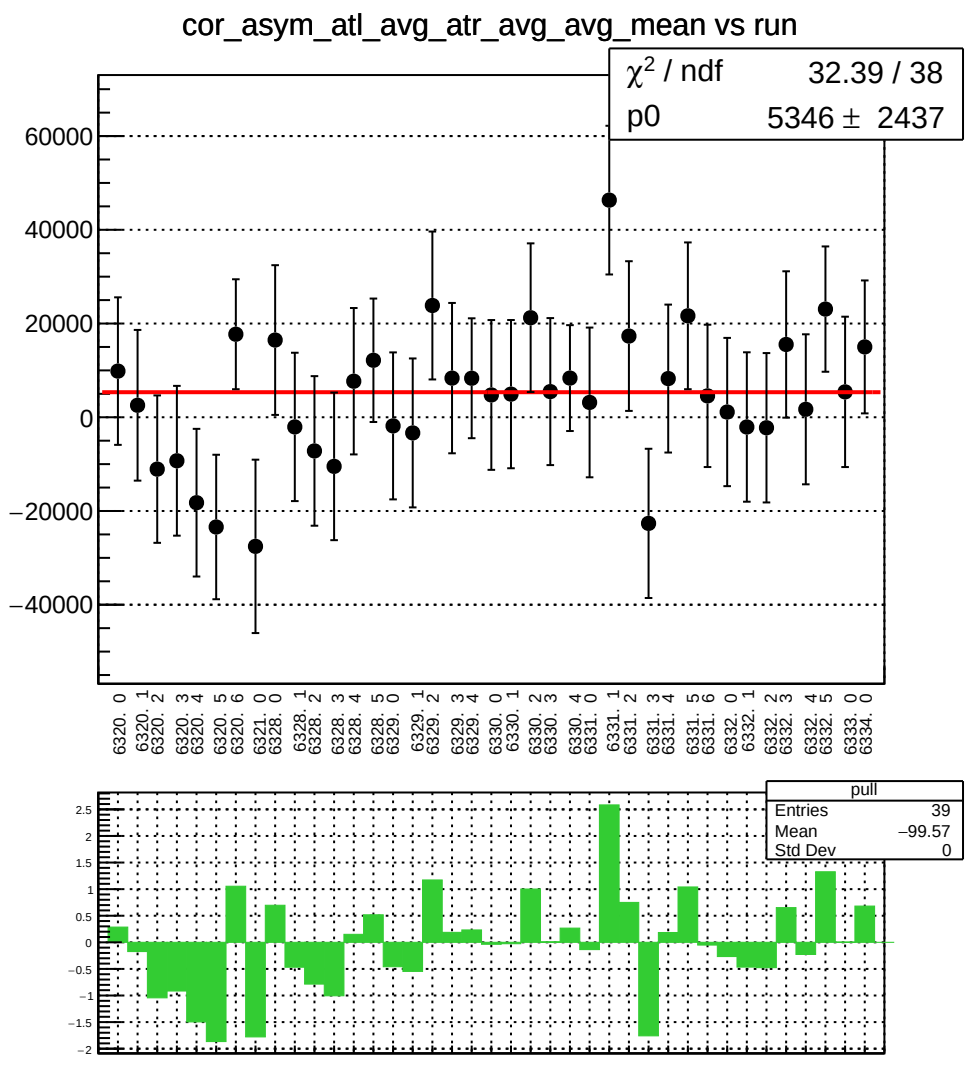

pull1D
Entries 39
Mean −0.03035
Std Dev 0.9108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

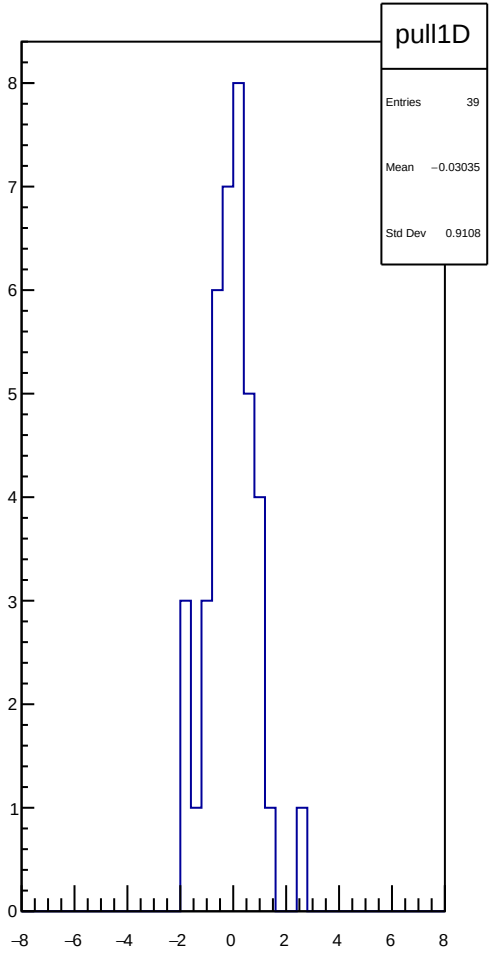

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 78.25 / 38
p0 1500 ± 1.723
1540
1520
1500
1480
1460
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

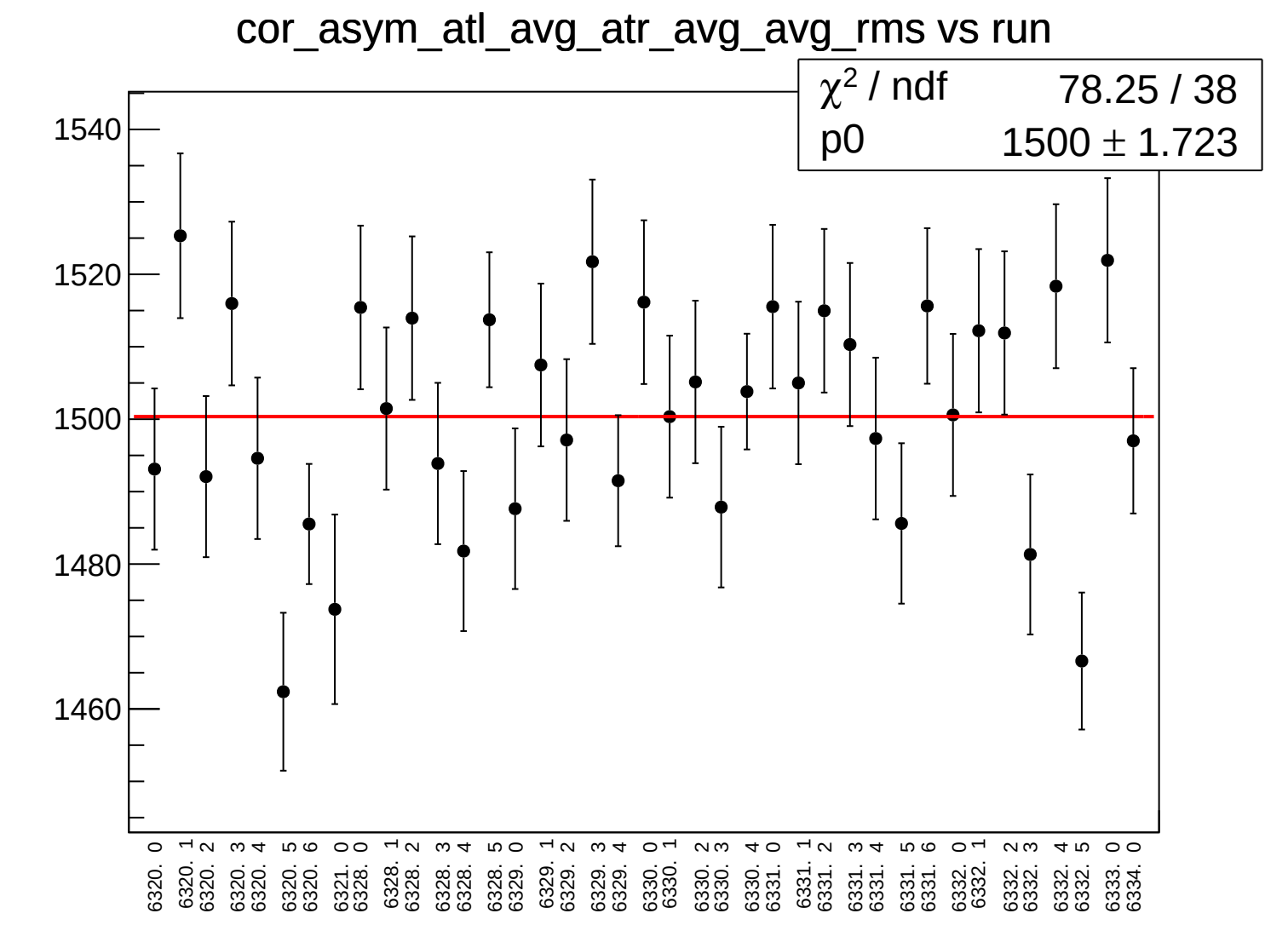

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 7671± 1.054e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.704
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

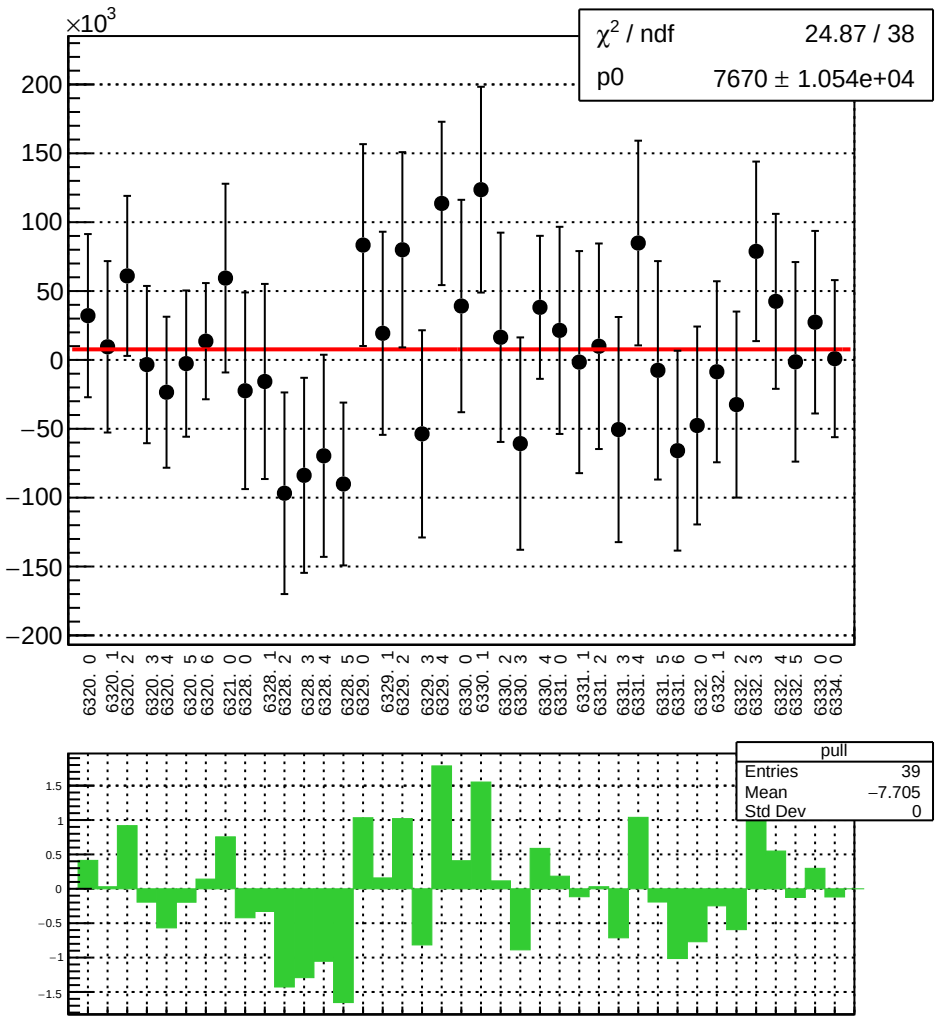

pull1D
Entries 39
Mean −0.01575
Std Dev 0.7984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

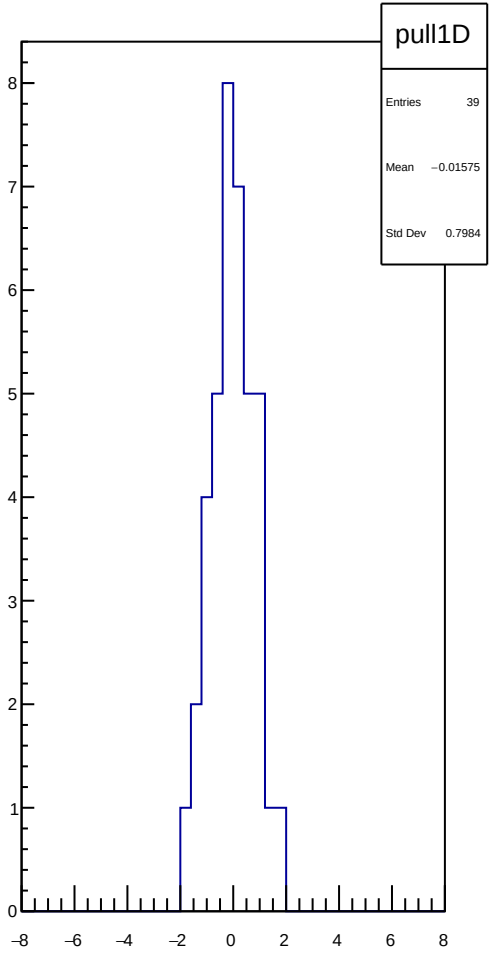

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.103e+04 / 38
p0 6444 ± 7.455
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

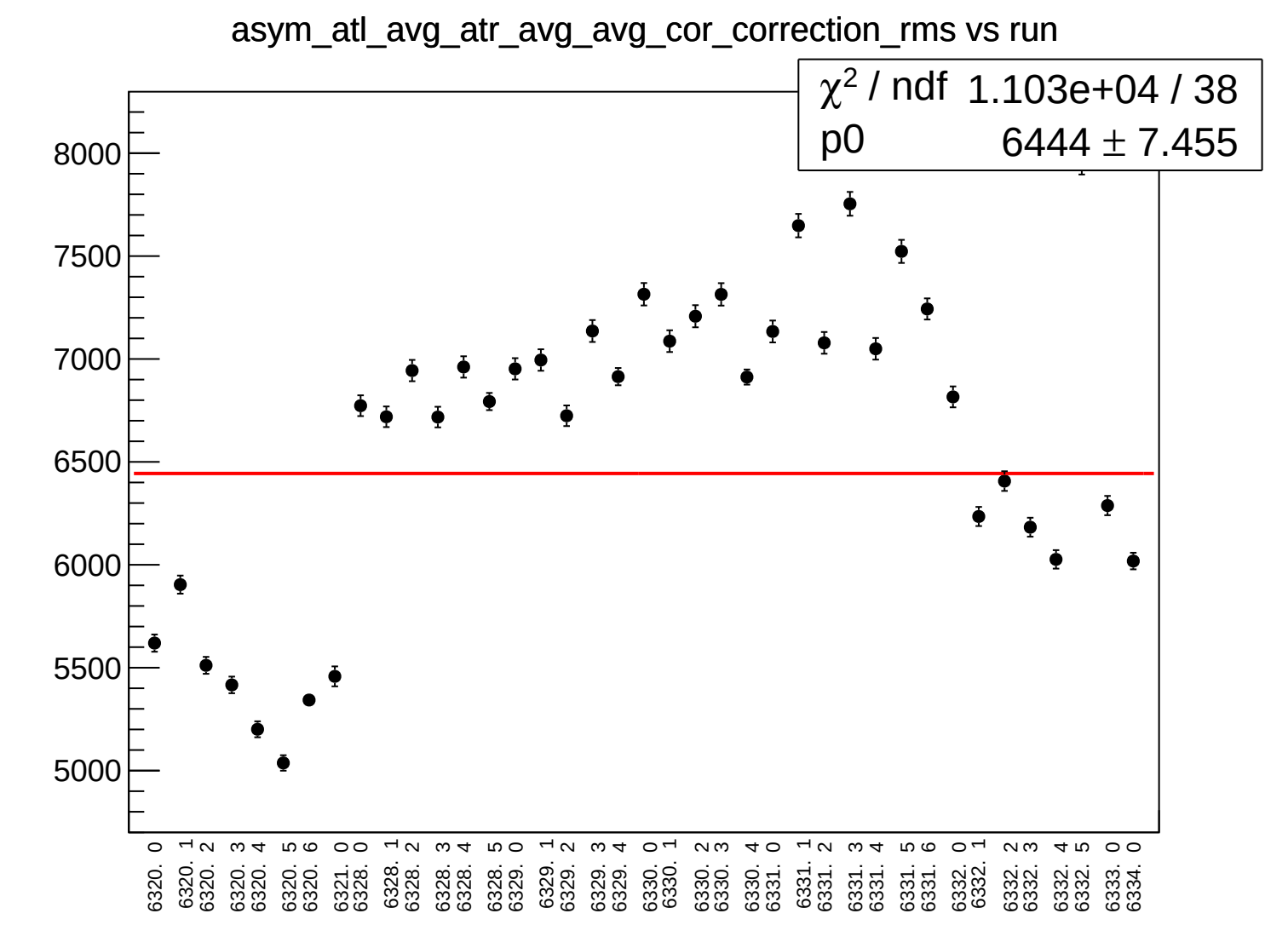

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.39 / 38
p0 5346 ± 2437
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −99.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

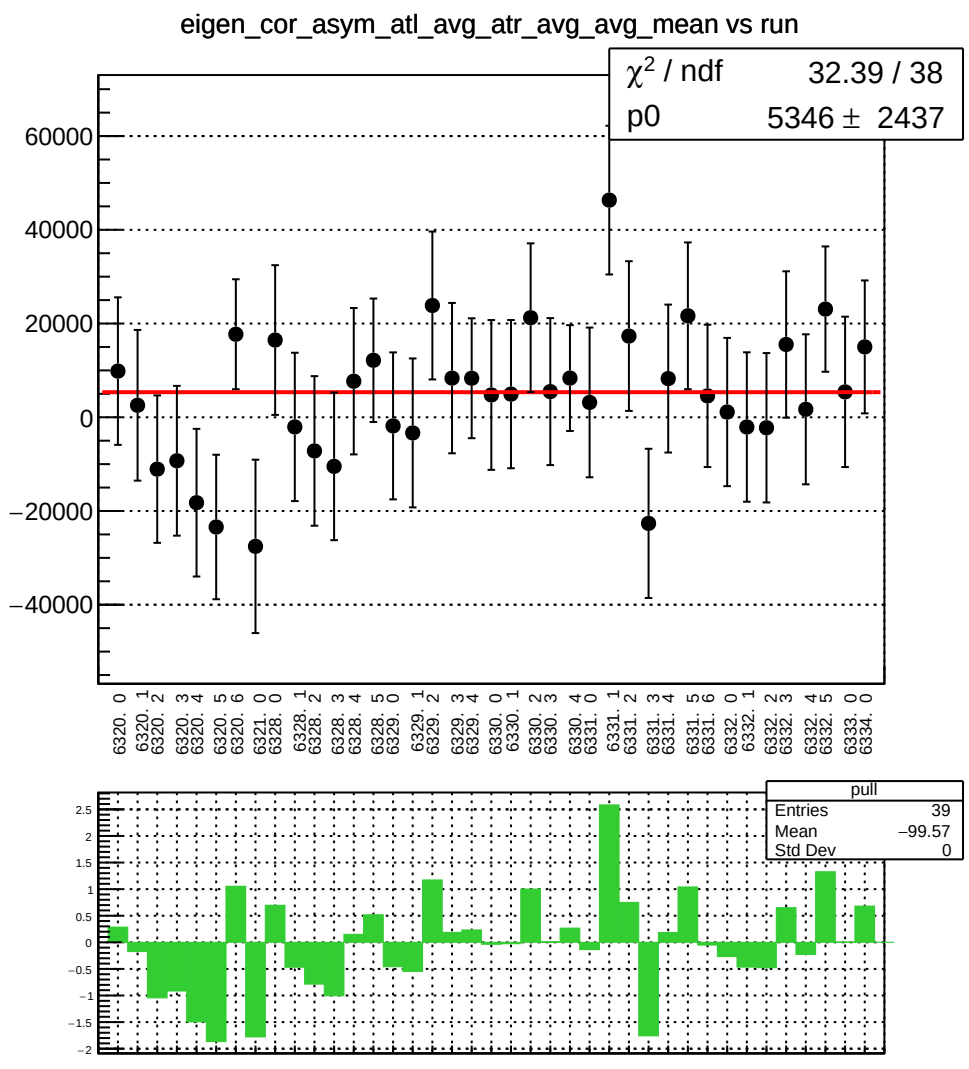

pull1D
Entries 39
Mean −0.03035
Std Dev 0.9108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

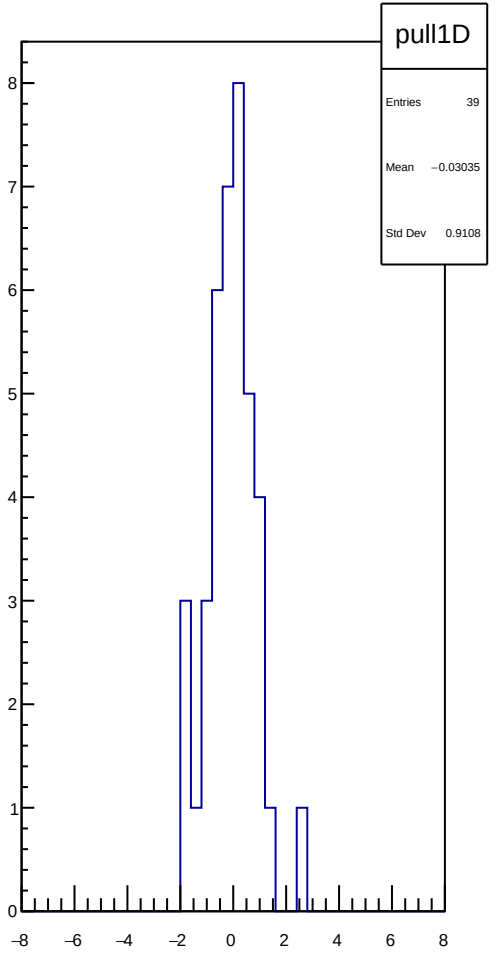

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 78.25 / 38
p0 1500 ± 1.723
1540
1520
1500
1480
1460
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

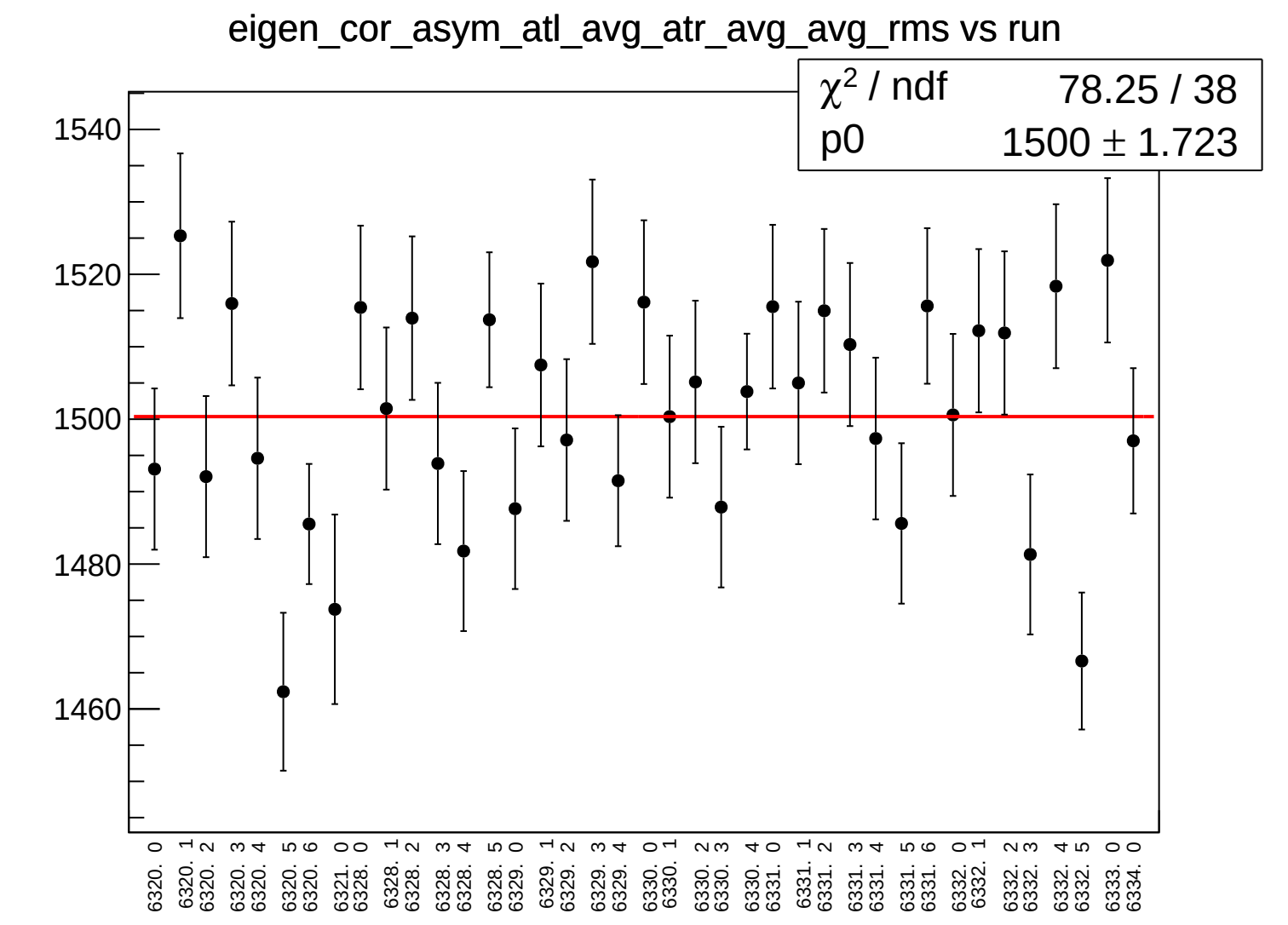

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 7670 ± 1.054e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.705
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

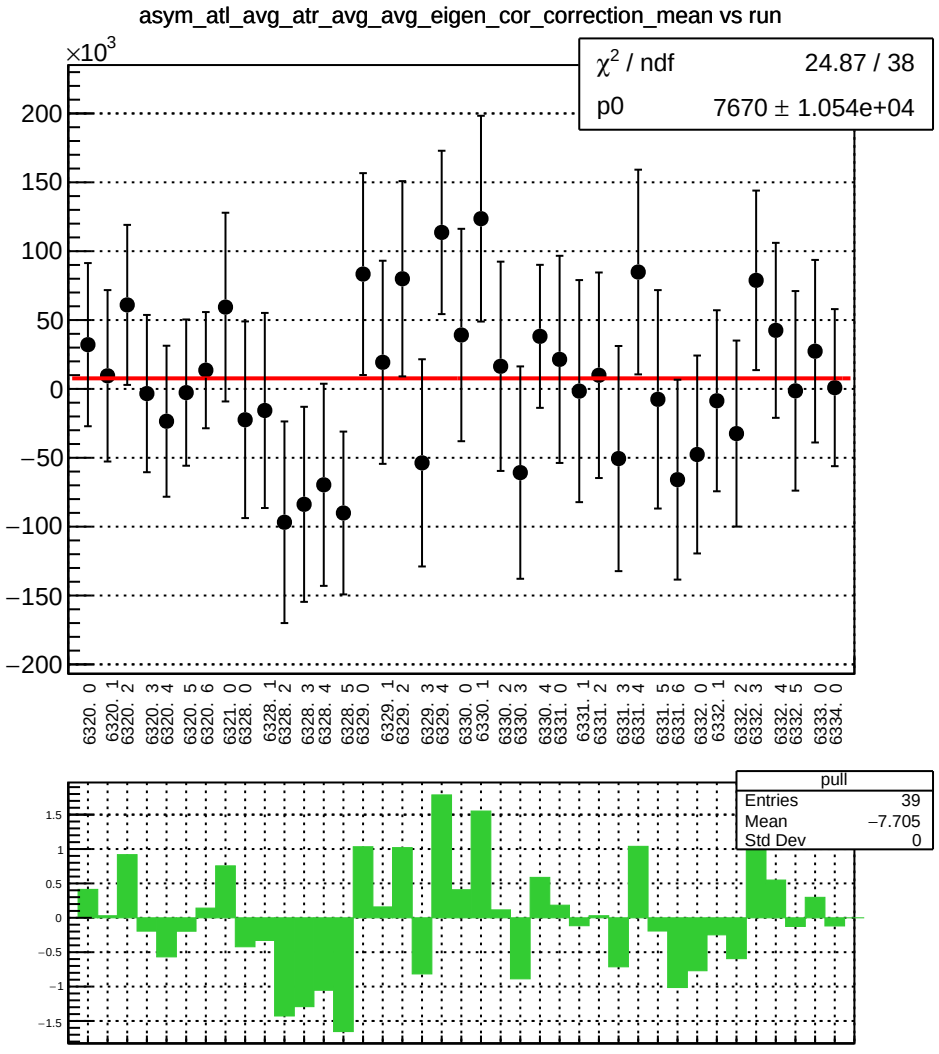

pull1D
Entries 39
Mean −0.01575
Std Dev 0.7984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

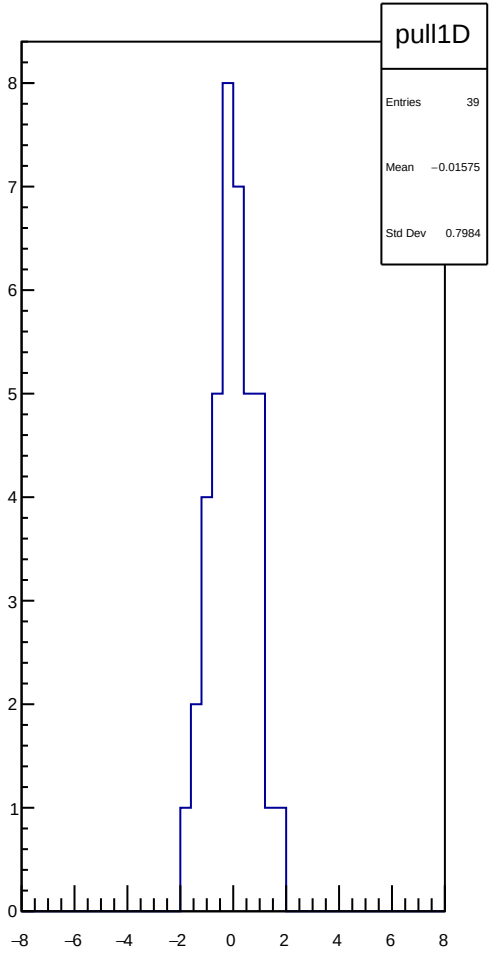

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.103e+04 / 38
p0 6444 ± 7.455
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

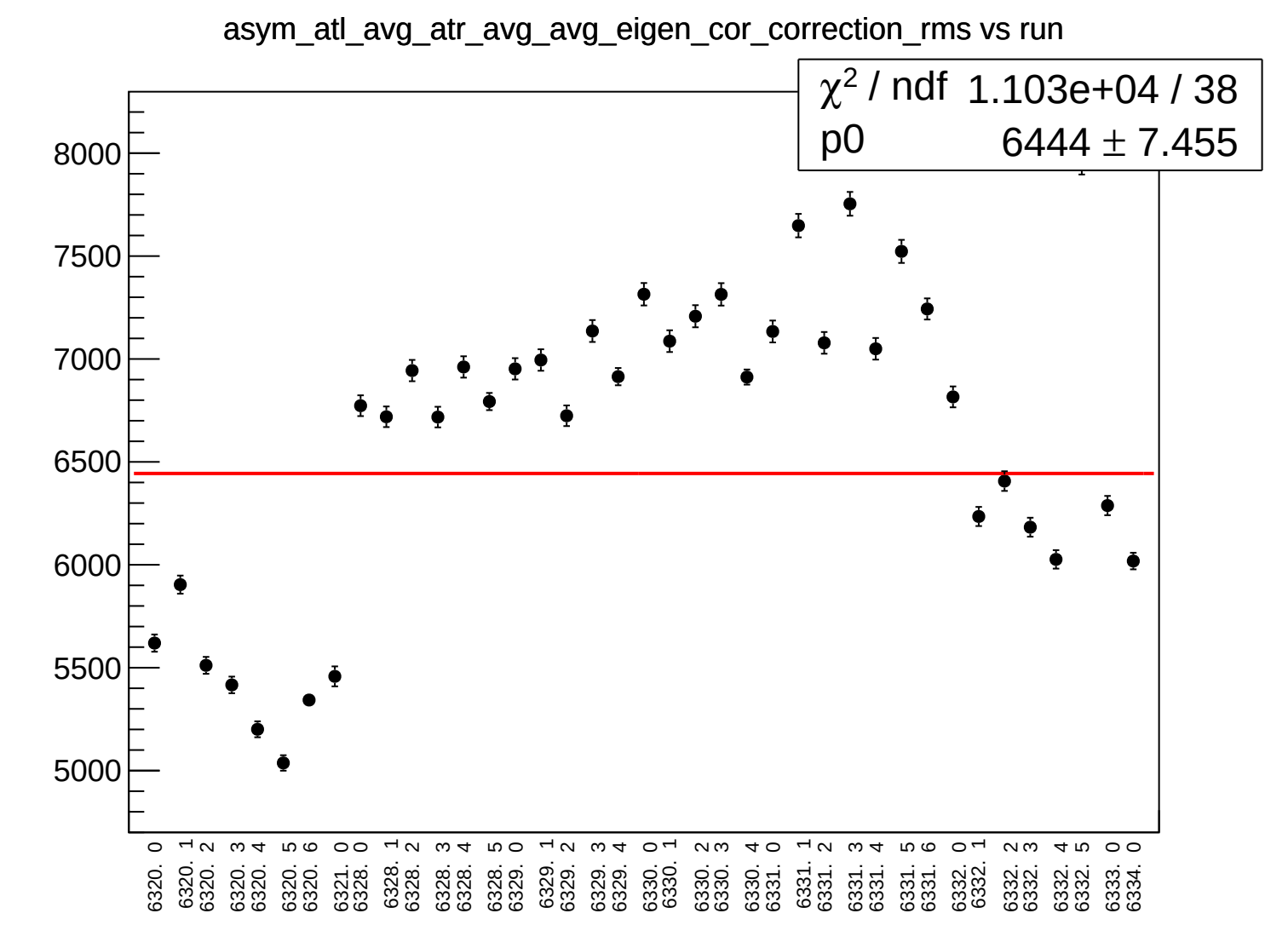

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.39 / 38
p0 5346 ± 2437
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −99.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

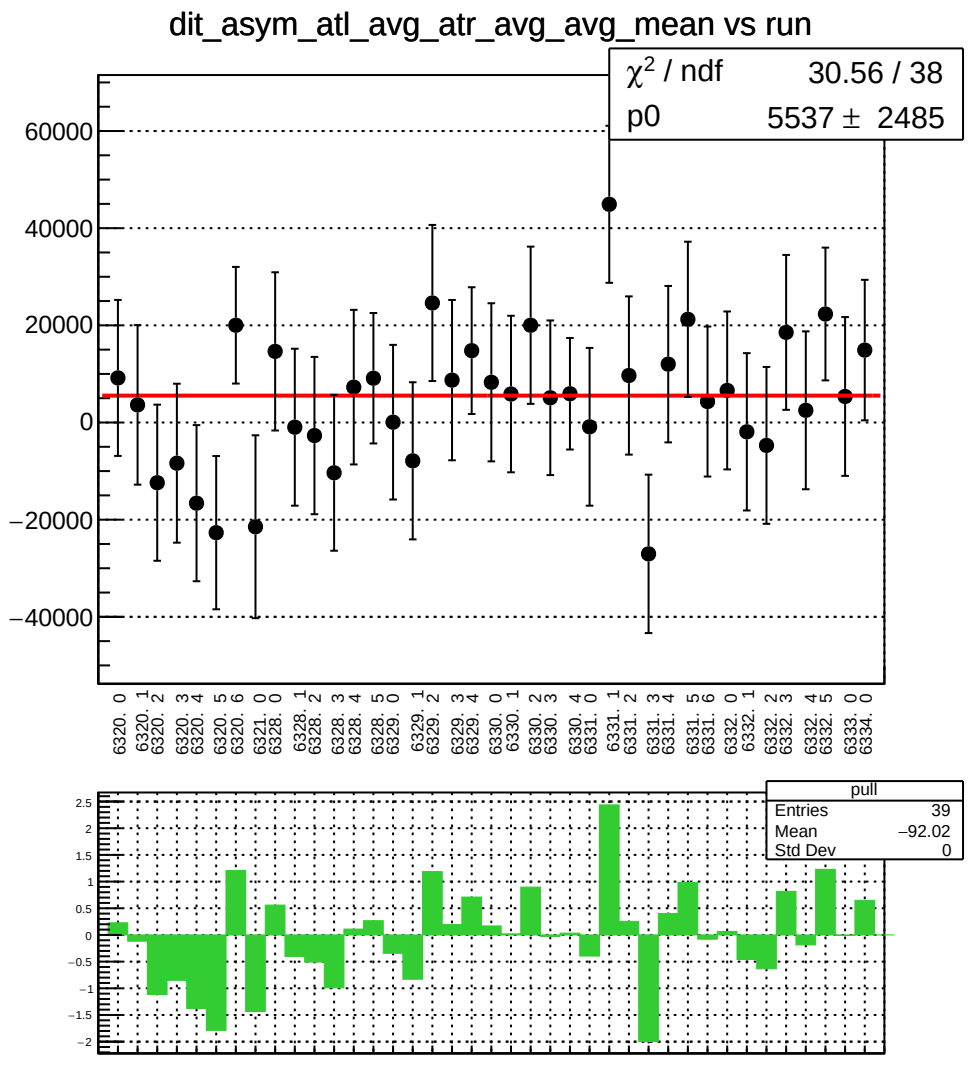

pull1D
Entries 39
Mean −0.03035
Std Dev 0.9108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

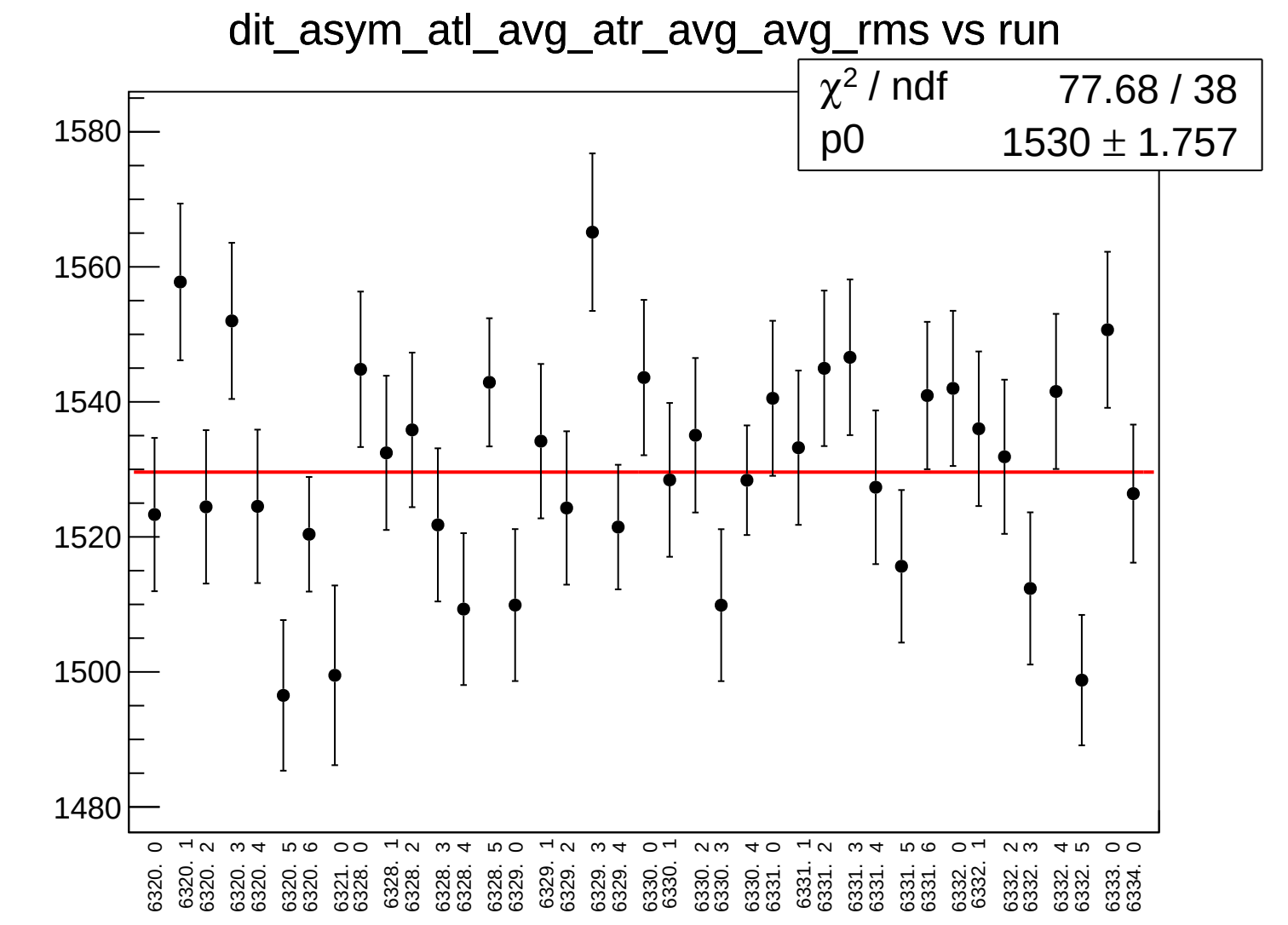

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 78.25 / 38
p0 1500 ± 1.723
1540
1520
1500
1480
1460
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

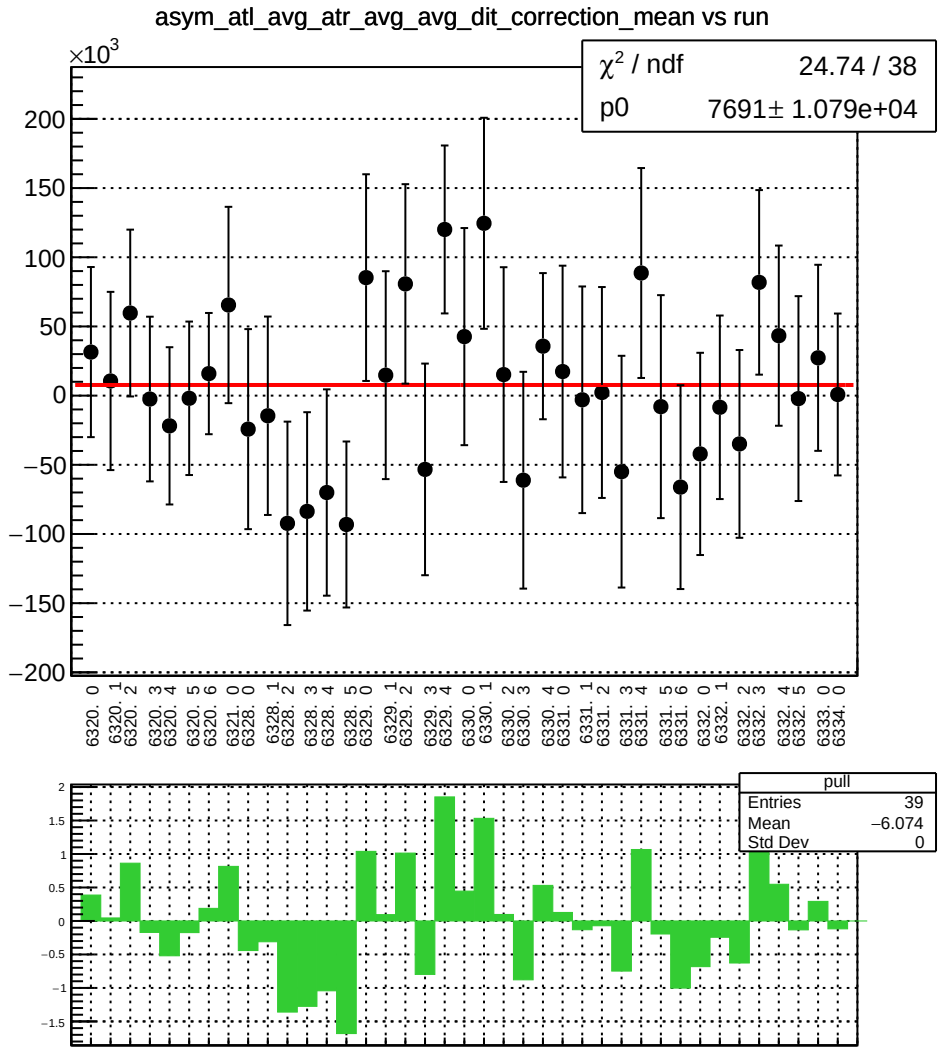

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 7670 ± 1.054e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.705
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

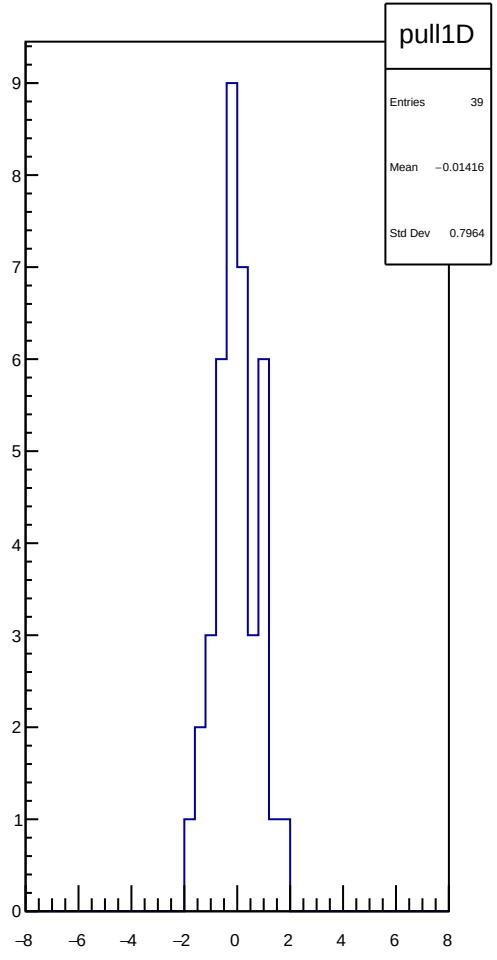

pull1D
Entries 39
Mean −0.01575
Std Dev 0.7984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

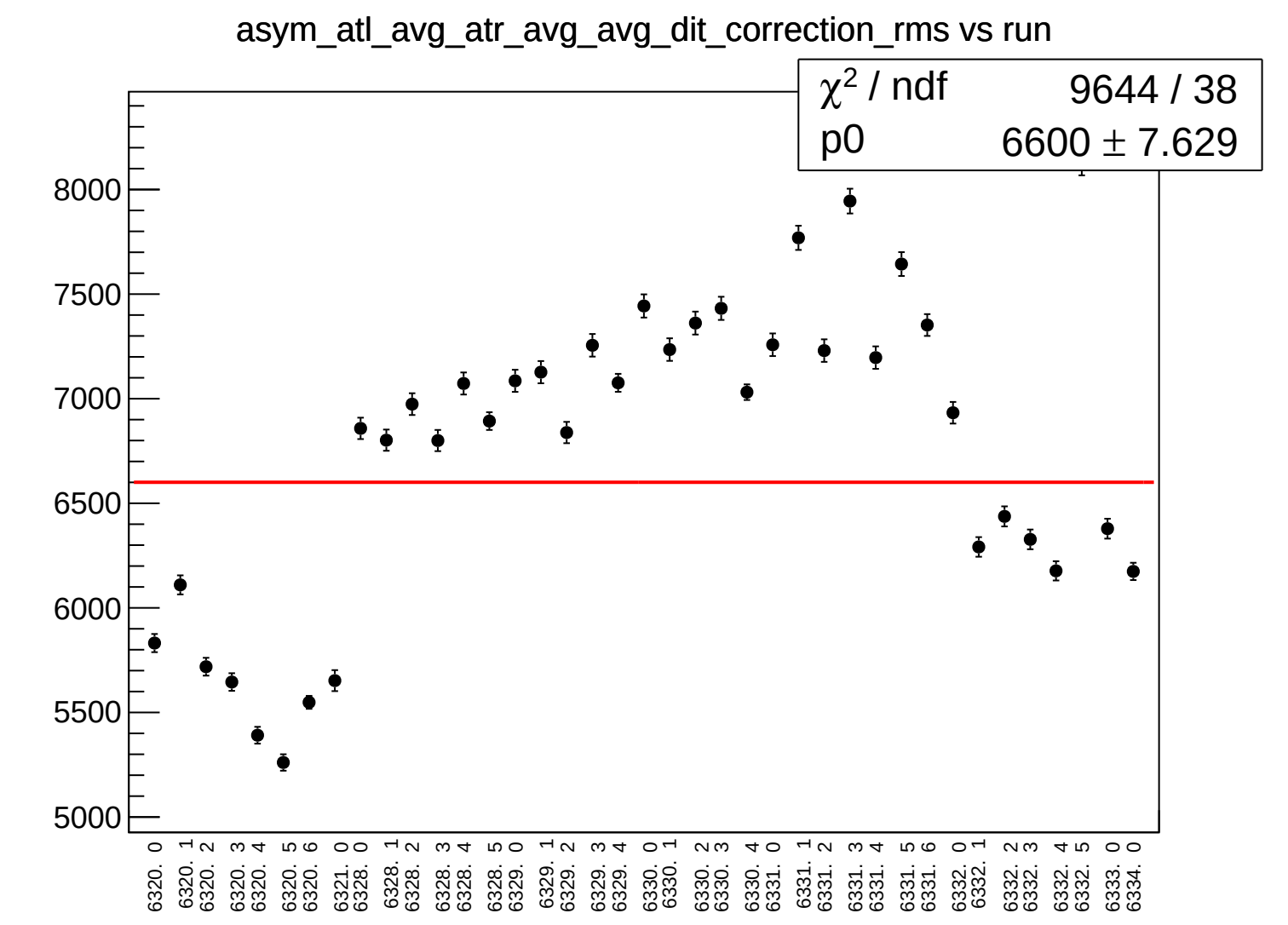

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.103e+04 / 38
p0 6444 ± 7.455
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

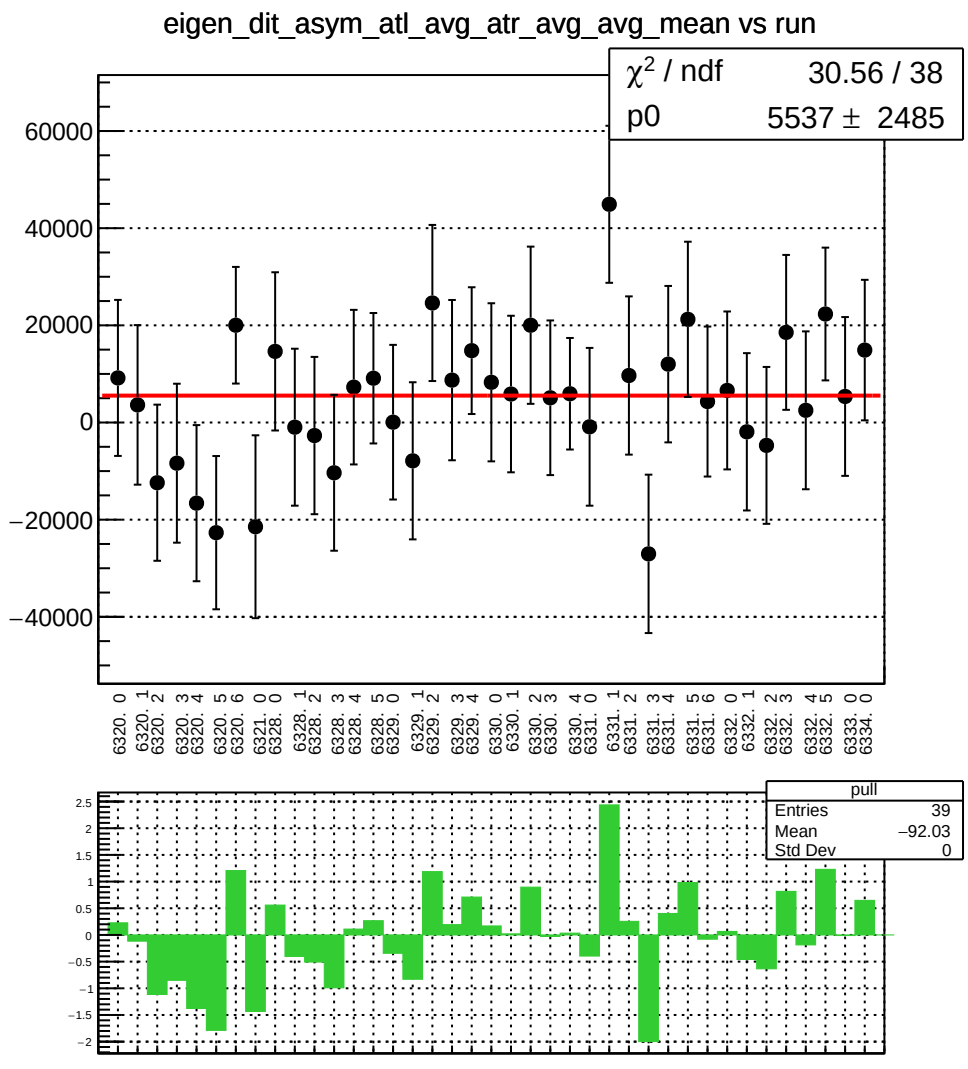

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 30.56 / 38
p0 5537 ± 2485
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −92.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02921
Std Dev 0.8847
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

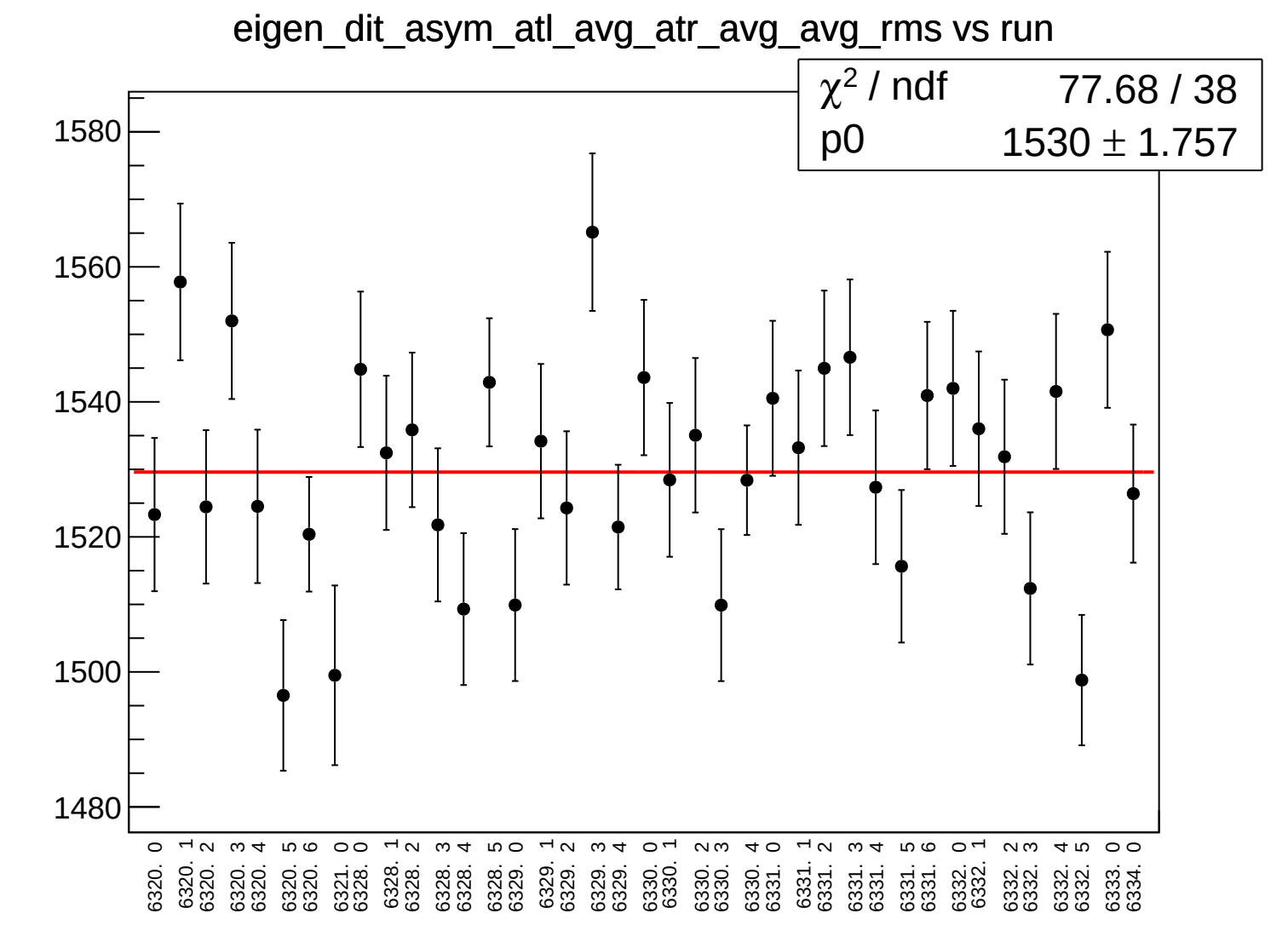

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 77.68 / 38
p0 1530 ± 1.757
1580
1560
1540
1520
1500
1480
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

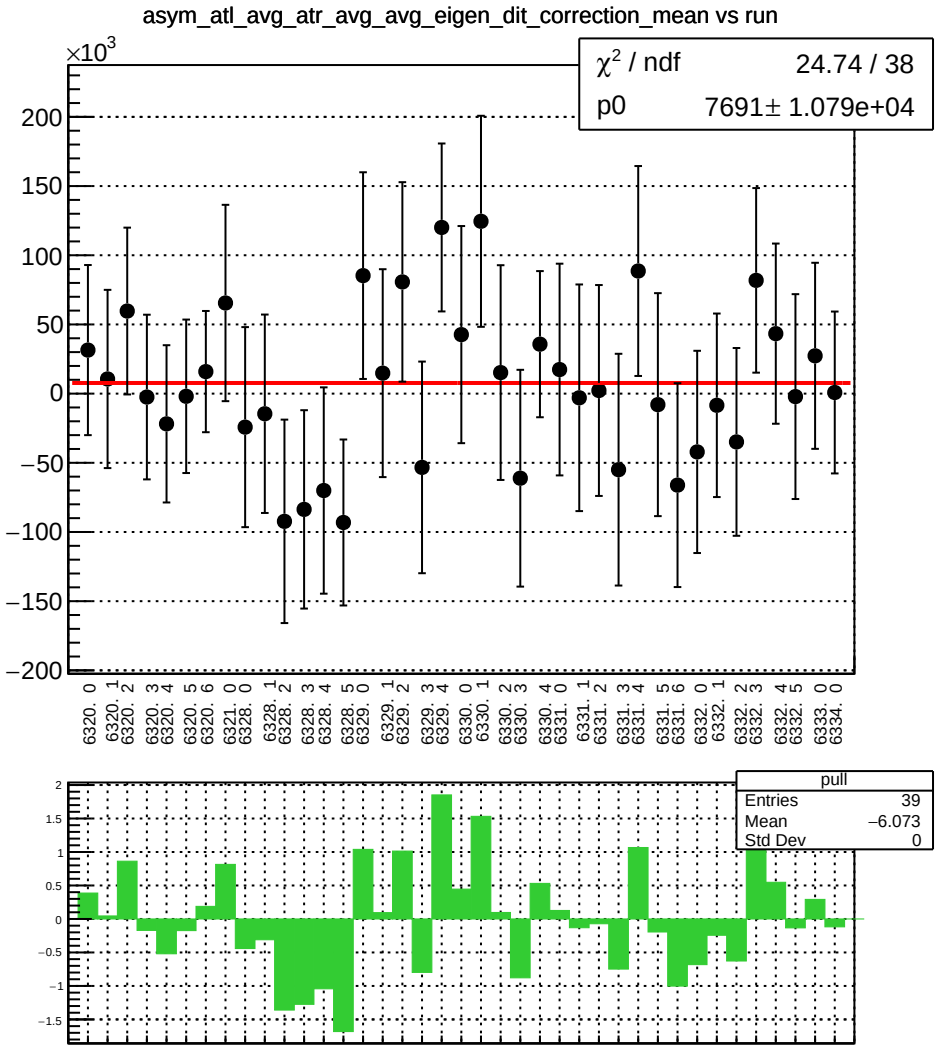

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.74 / 38
p0 7691± 1.079e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.074
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

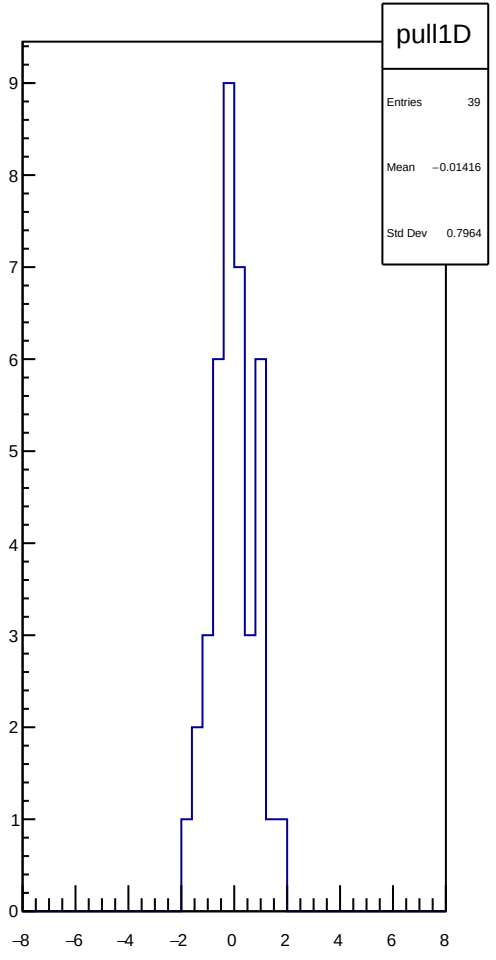

pull1D
Entries 39
Mean −0.01416
Std Dev 0.7964
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

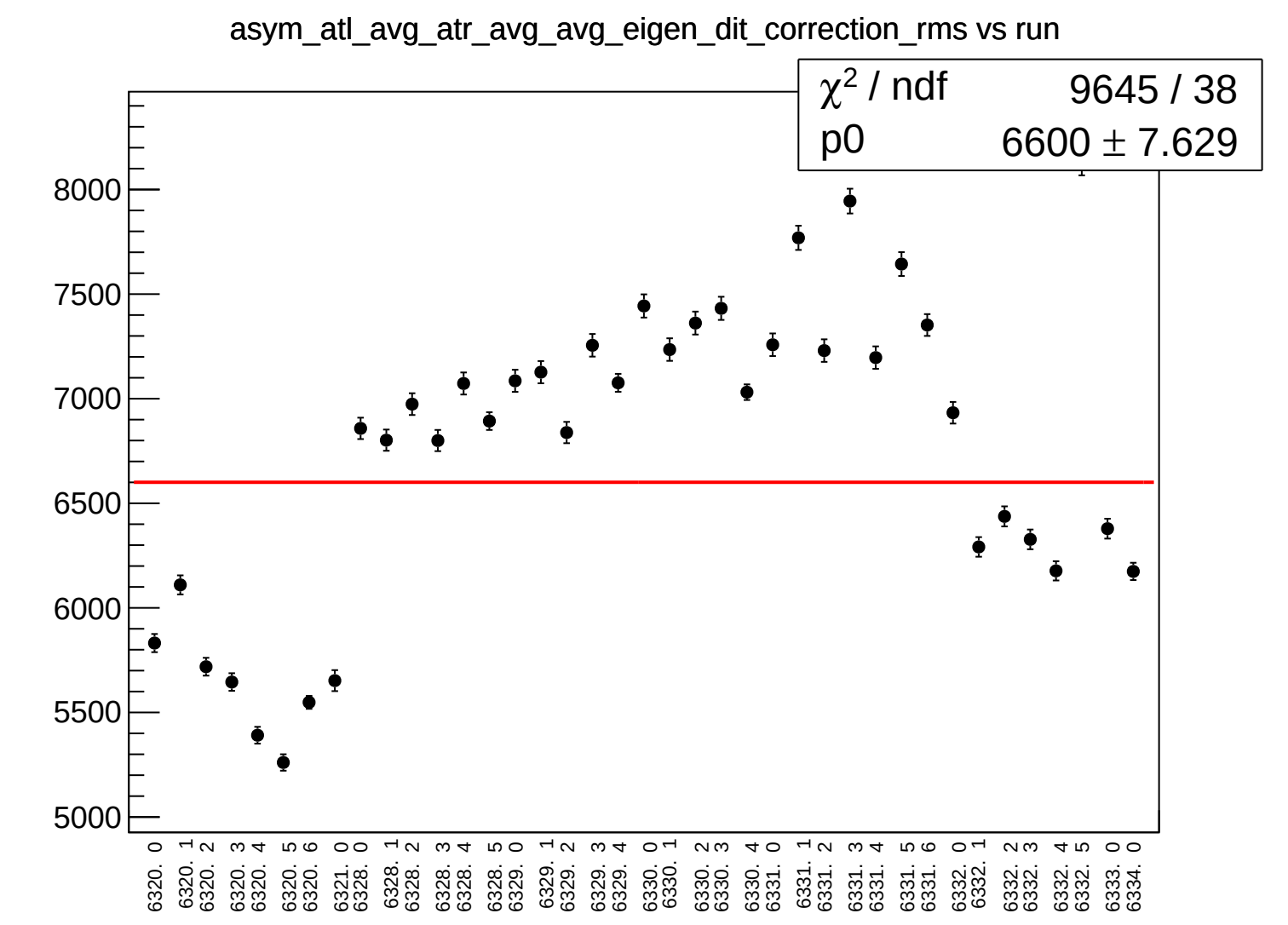

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 9644 / 38
p0 6600 ± 7.629
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

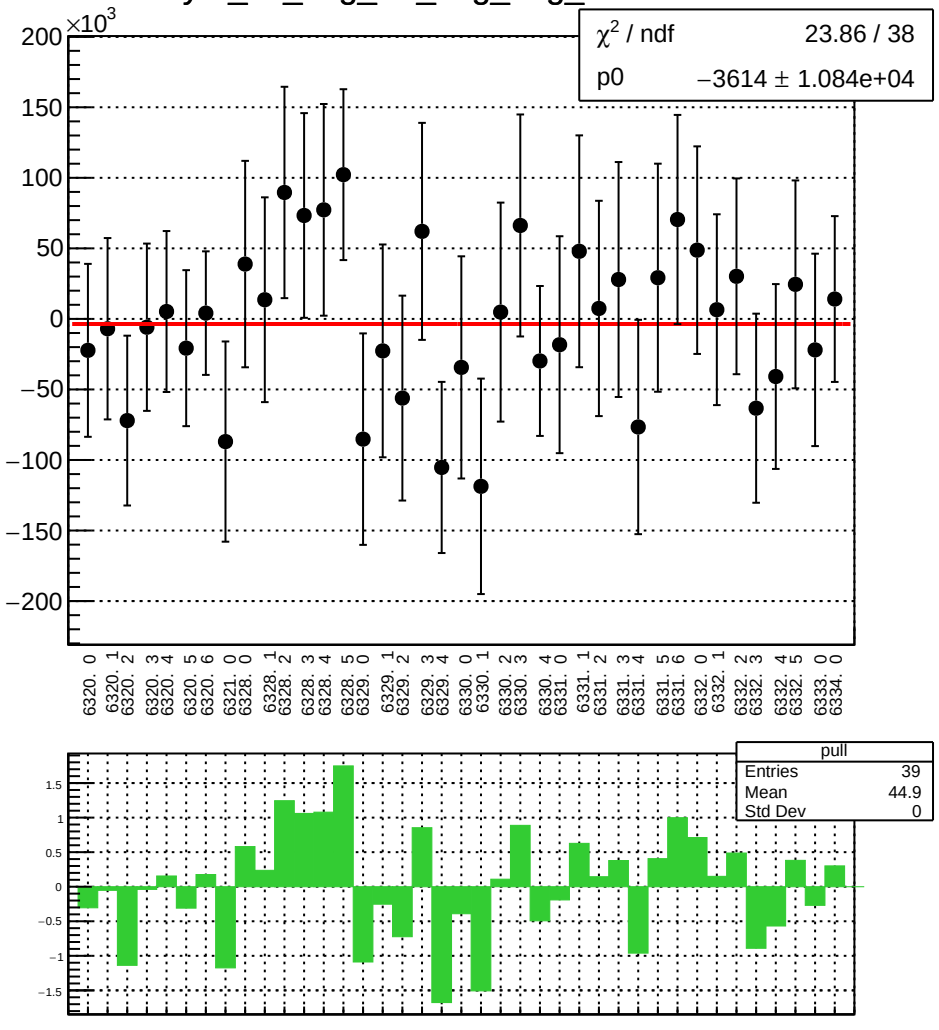

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 30.56 / 38
p0 5537 ± 2485
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −92.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02921
Std Dev 0.8847
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

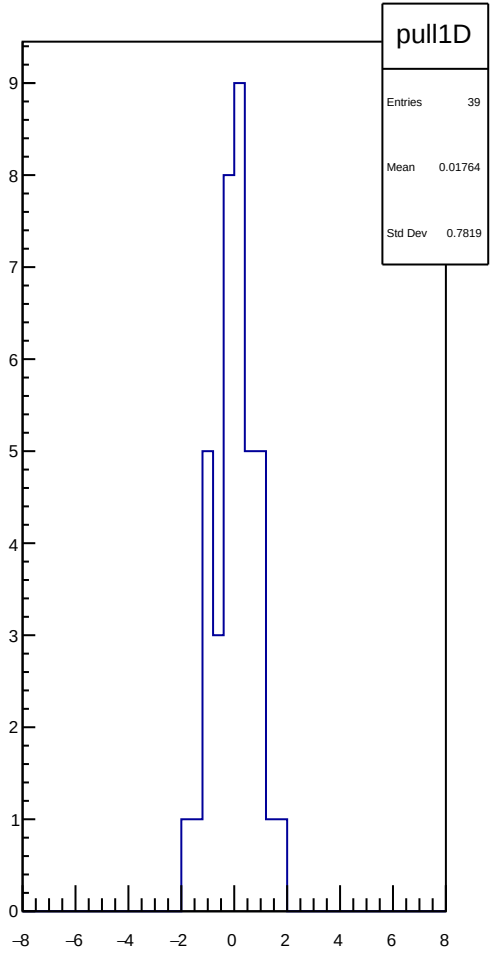

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 77.68 / 38
p0 1530 ± 1.757
1580
1560
1540
1520
1500
1480
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

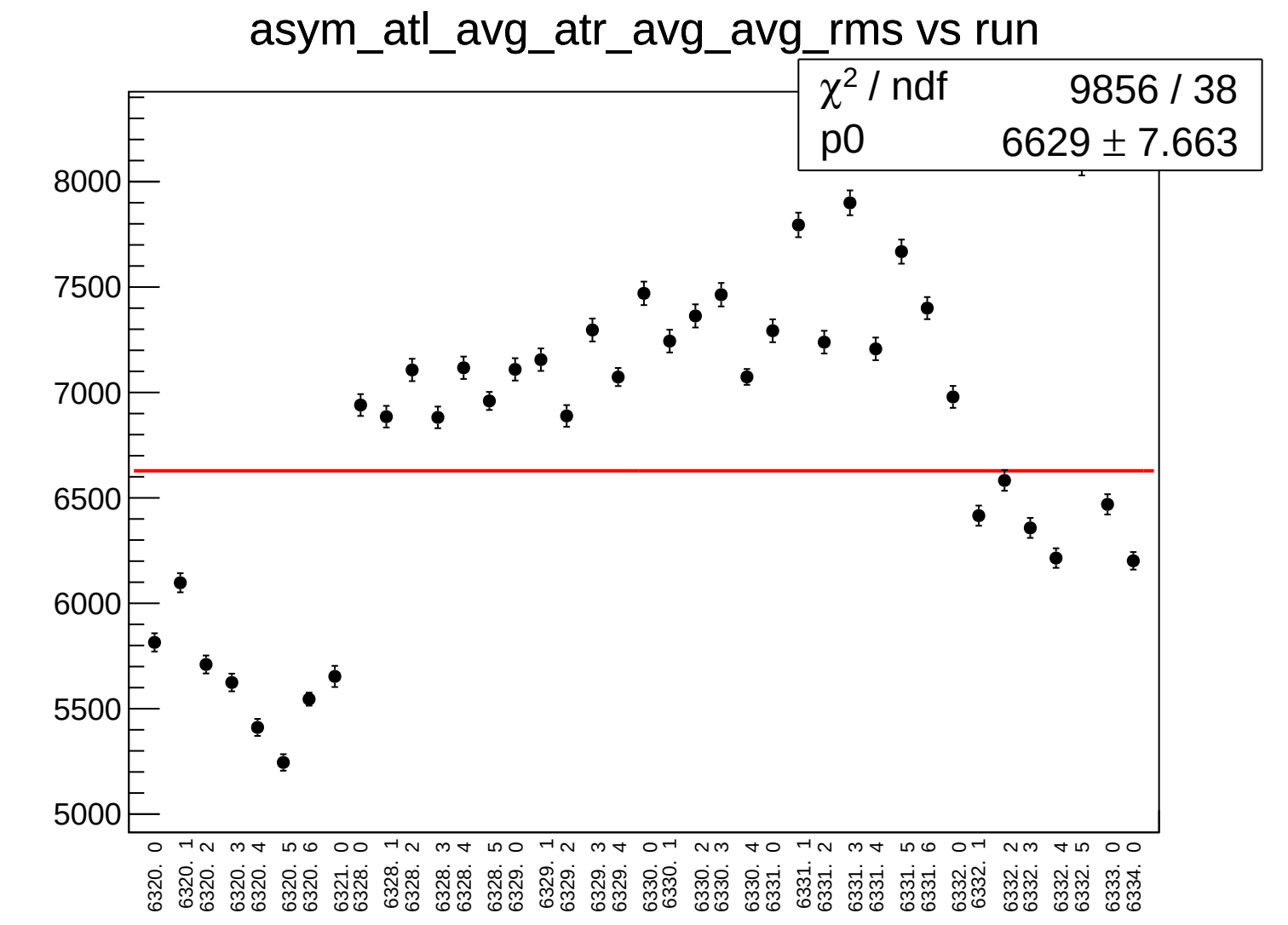

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.74 / 38
p0 7691± 1.079e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.073
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

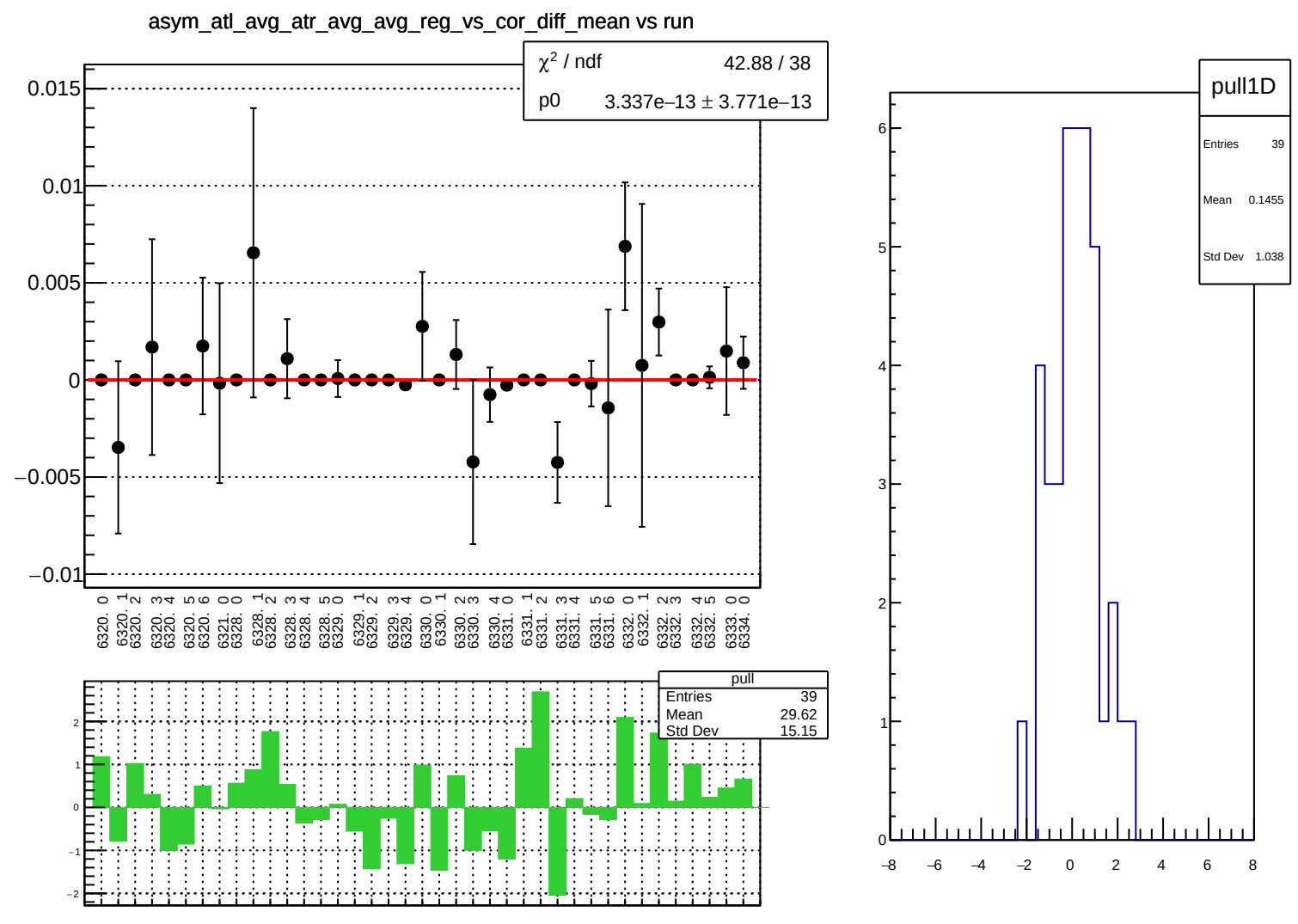

pull1D
Entries 39
Mean −0.01416
Std Dev 0.7964
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

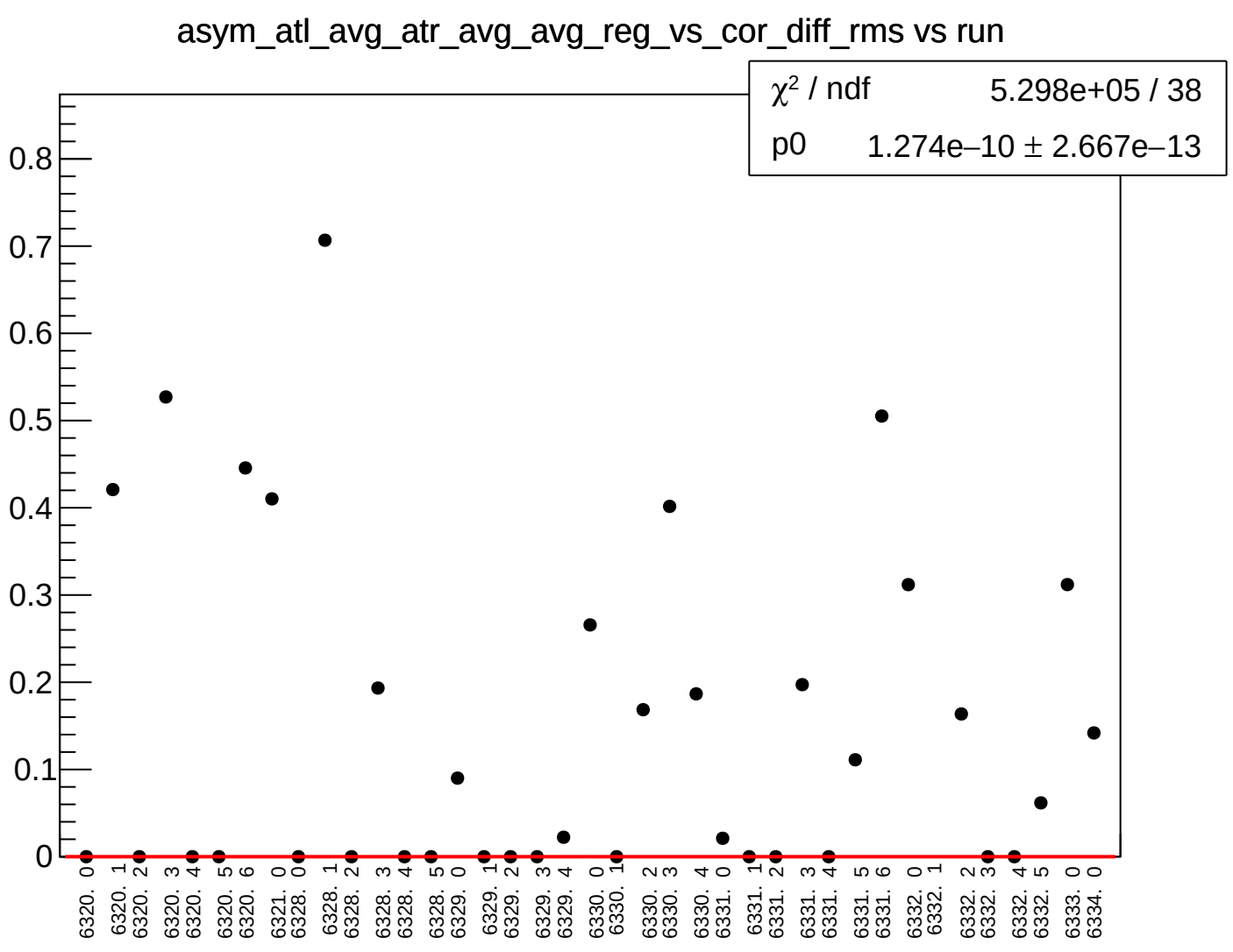

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9645 / 38
p0 6600 ± 7.629
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

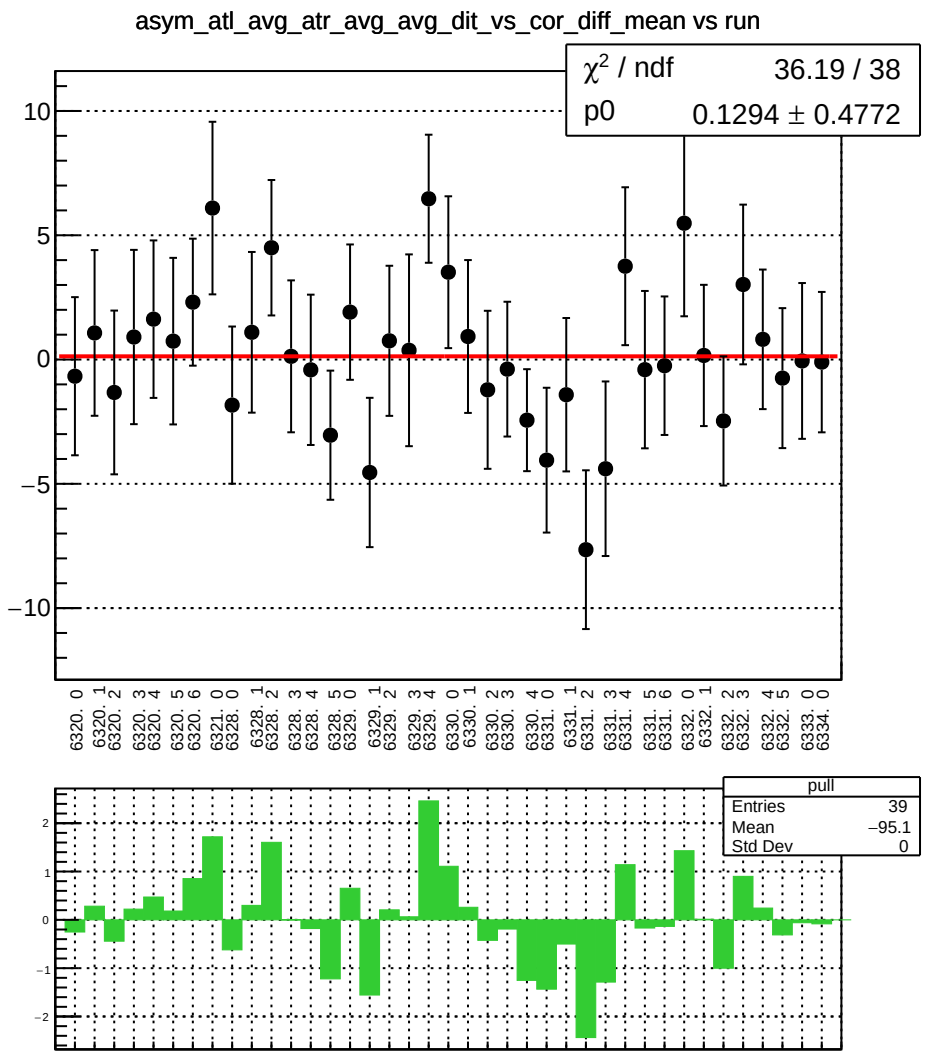

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 23.86 / 38
p0 −3614 ± 1.084e+04
pull
Entries 39
Mean 44.9
Std Dev 0

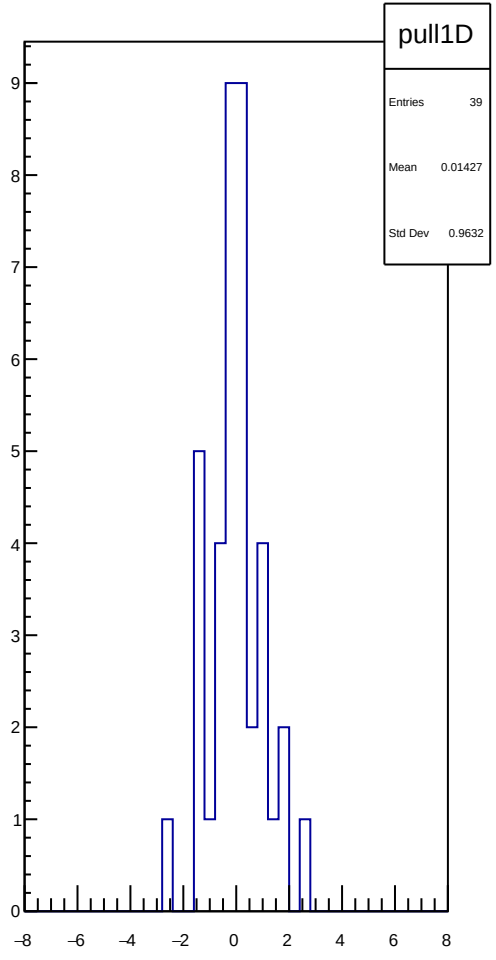

pull1D
Entries 39
Mean 0.01764
Std Dev 0.7819

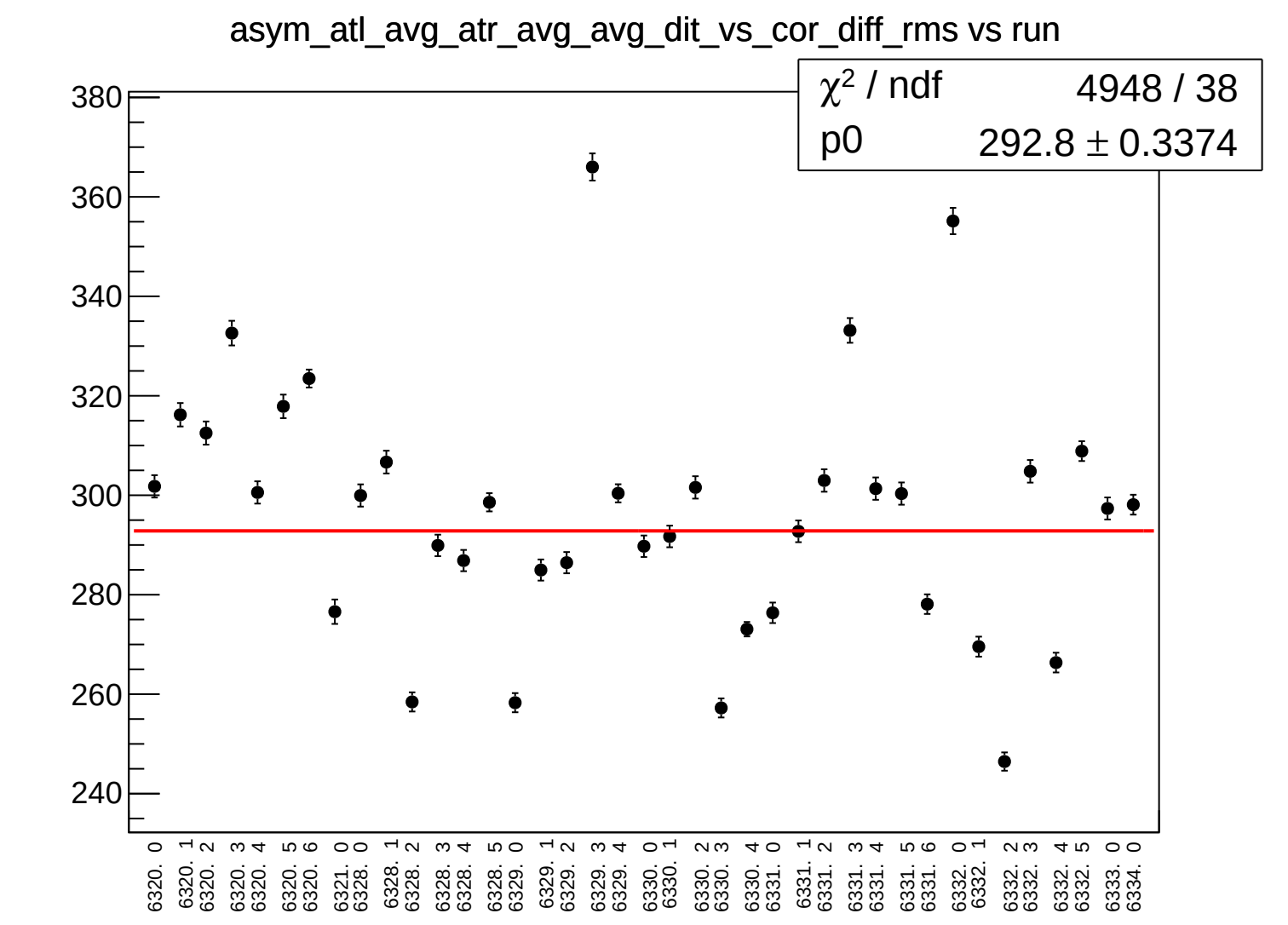

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 9856 / 38
p0 6629 ± 7.663
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

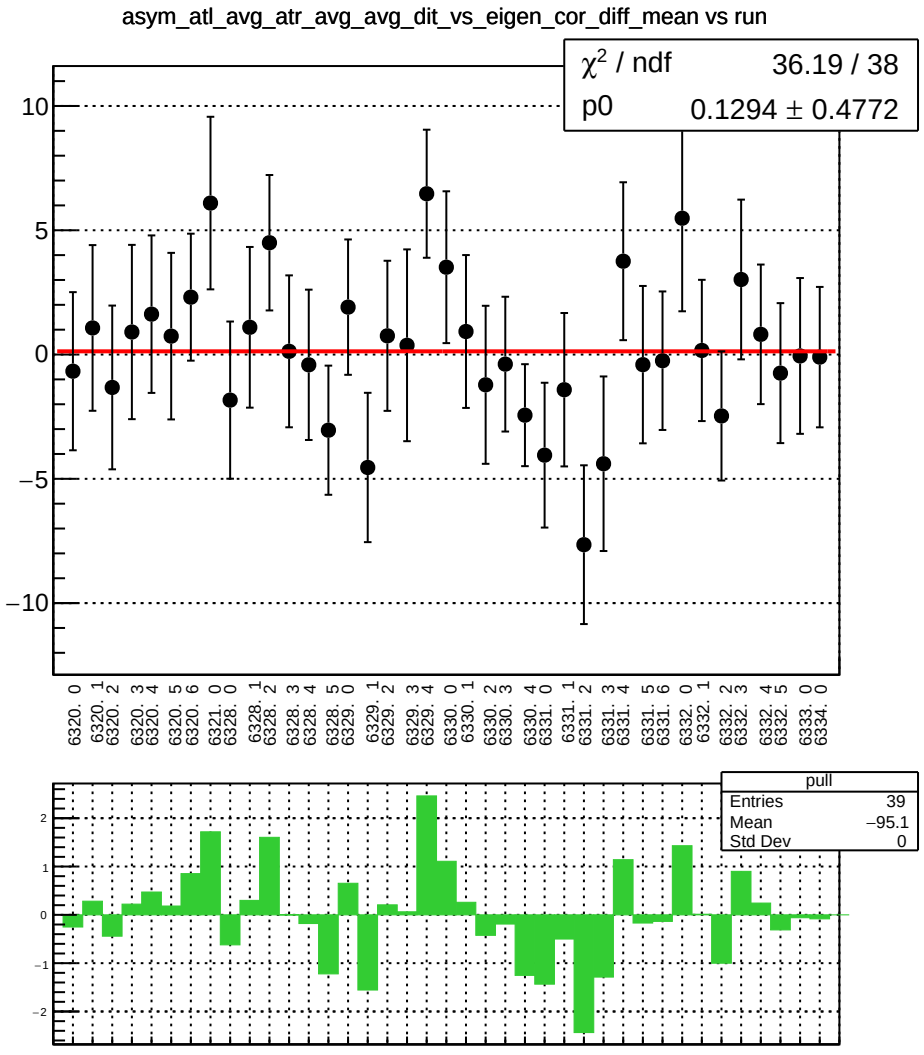

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.88 / 38
p0 3.337e−13 ± 3.771e−13
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 29.62
Std Dev 15.15
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1455
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

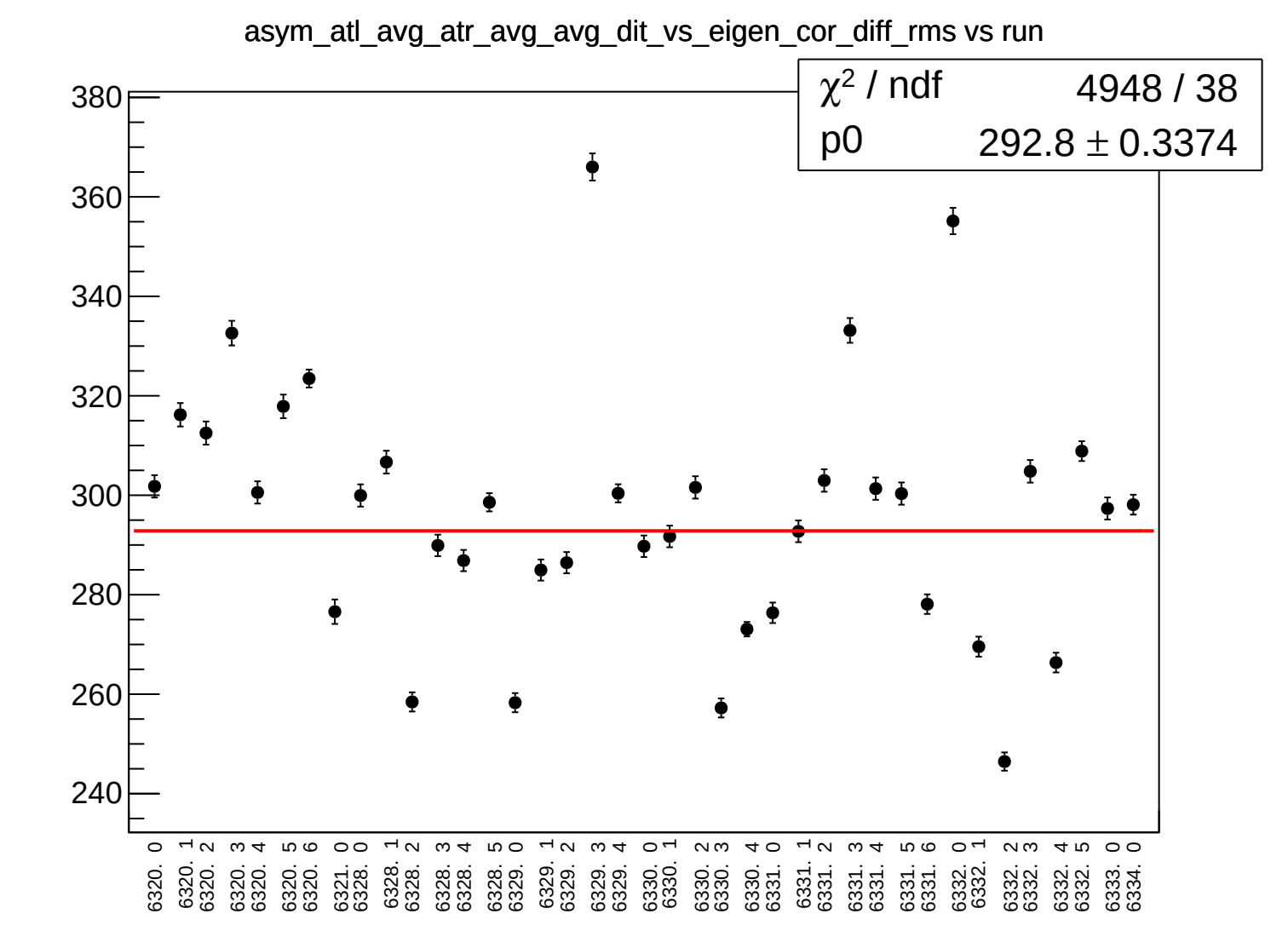

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.298e+05 / 38
p0 1.274e−10 ± 2.667e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

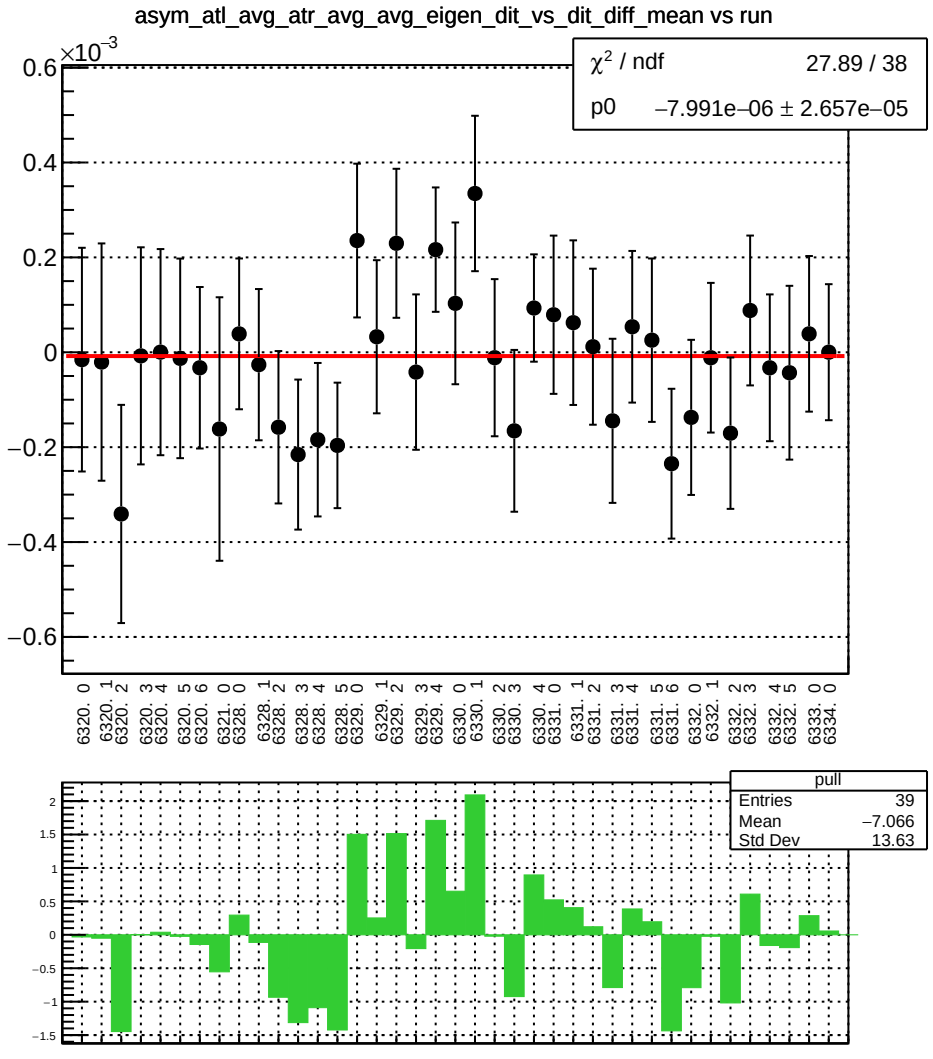

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 0.1294 ± 0.4772
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −95.1
Std Dev 0
2
1
0
−1
−2

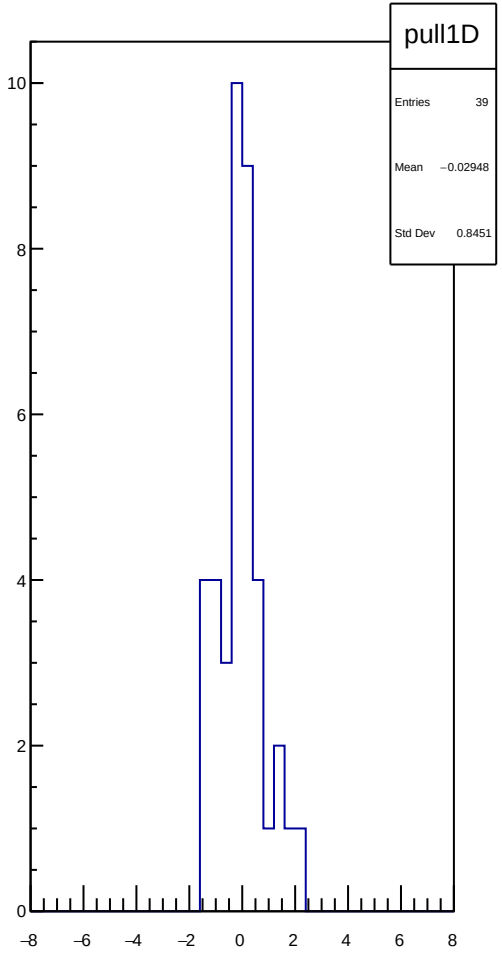

pull1D
Entries 39
Mean 0.01427
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

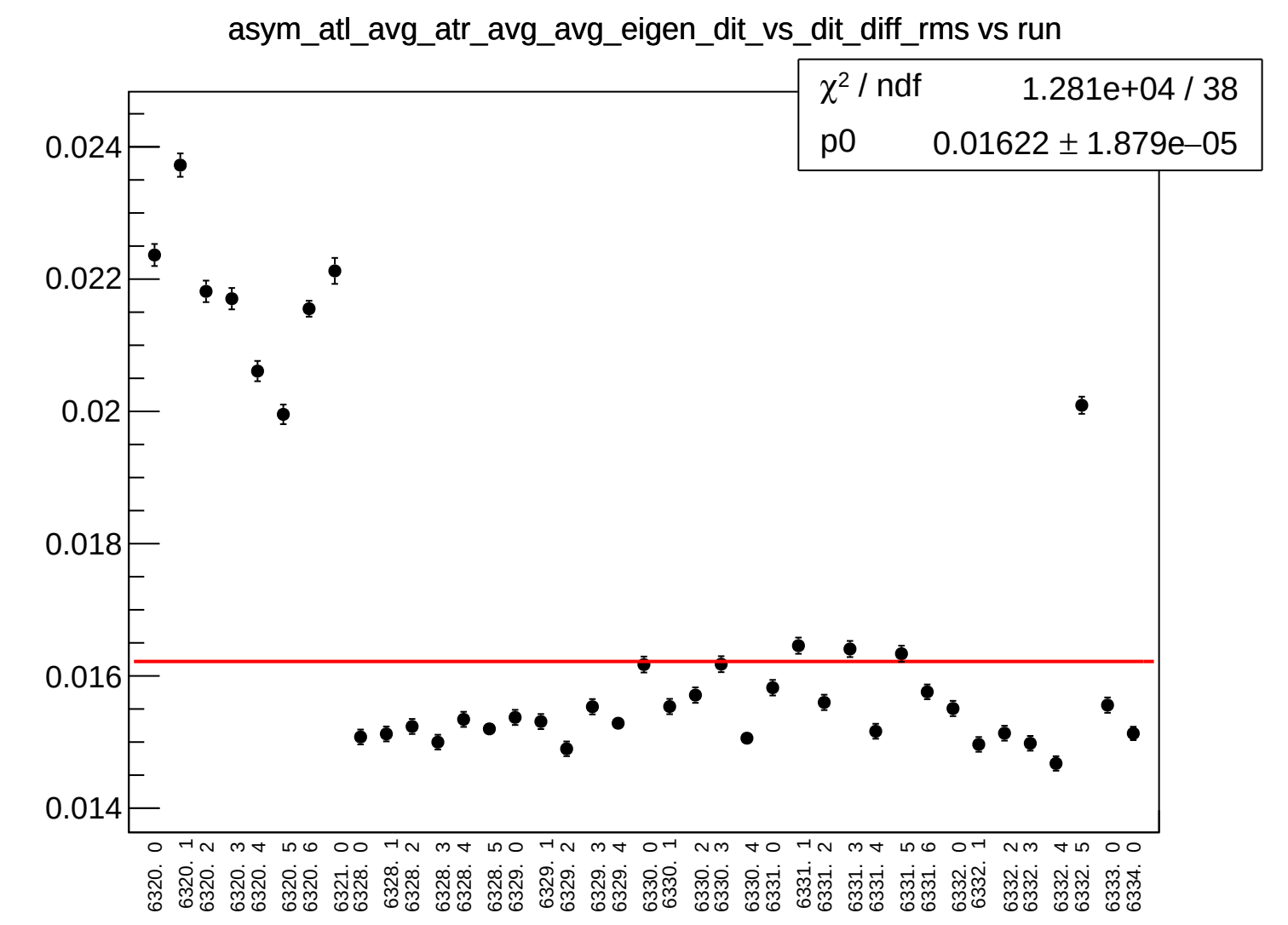

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4948 / 38
p0 292.8 ± 0.3374
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

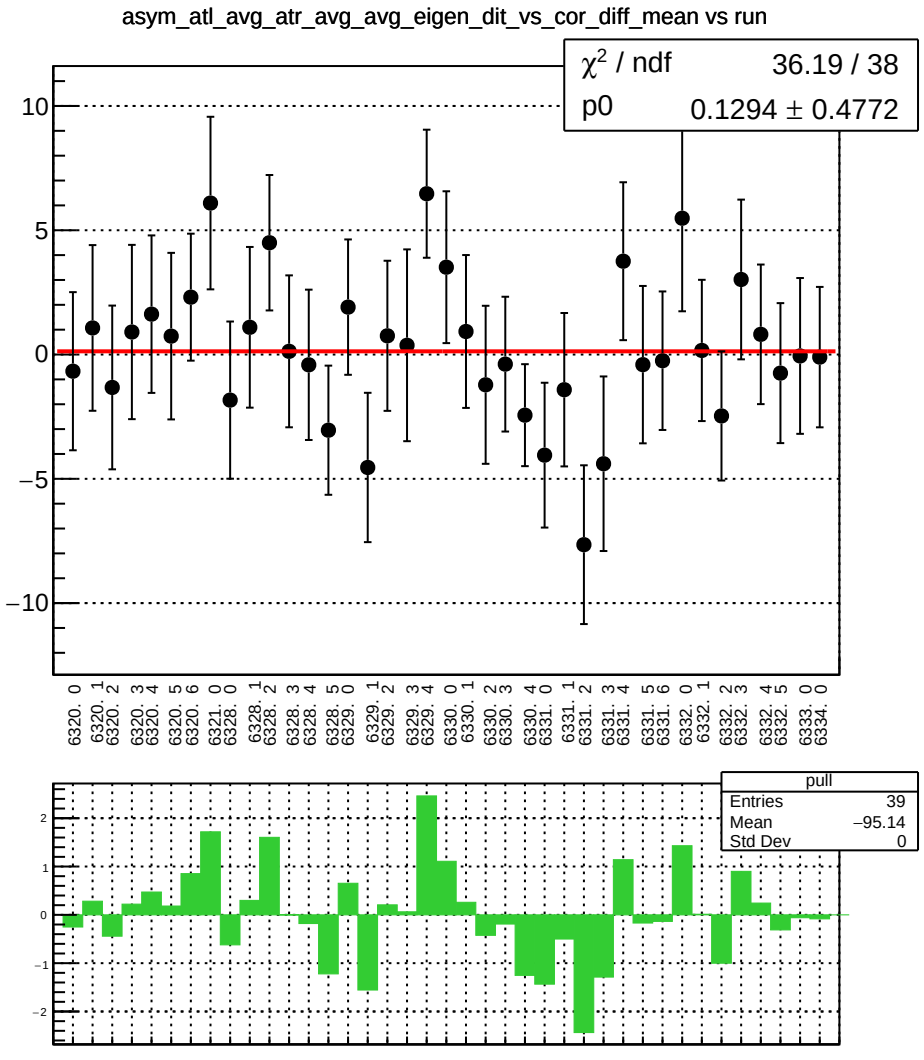

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 0.1294 ± 0.4772
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −95.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01427
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

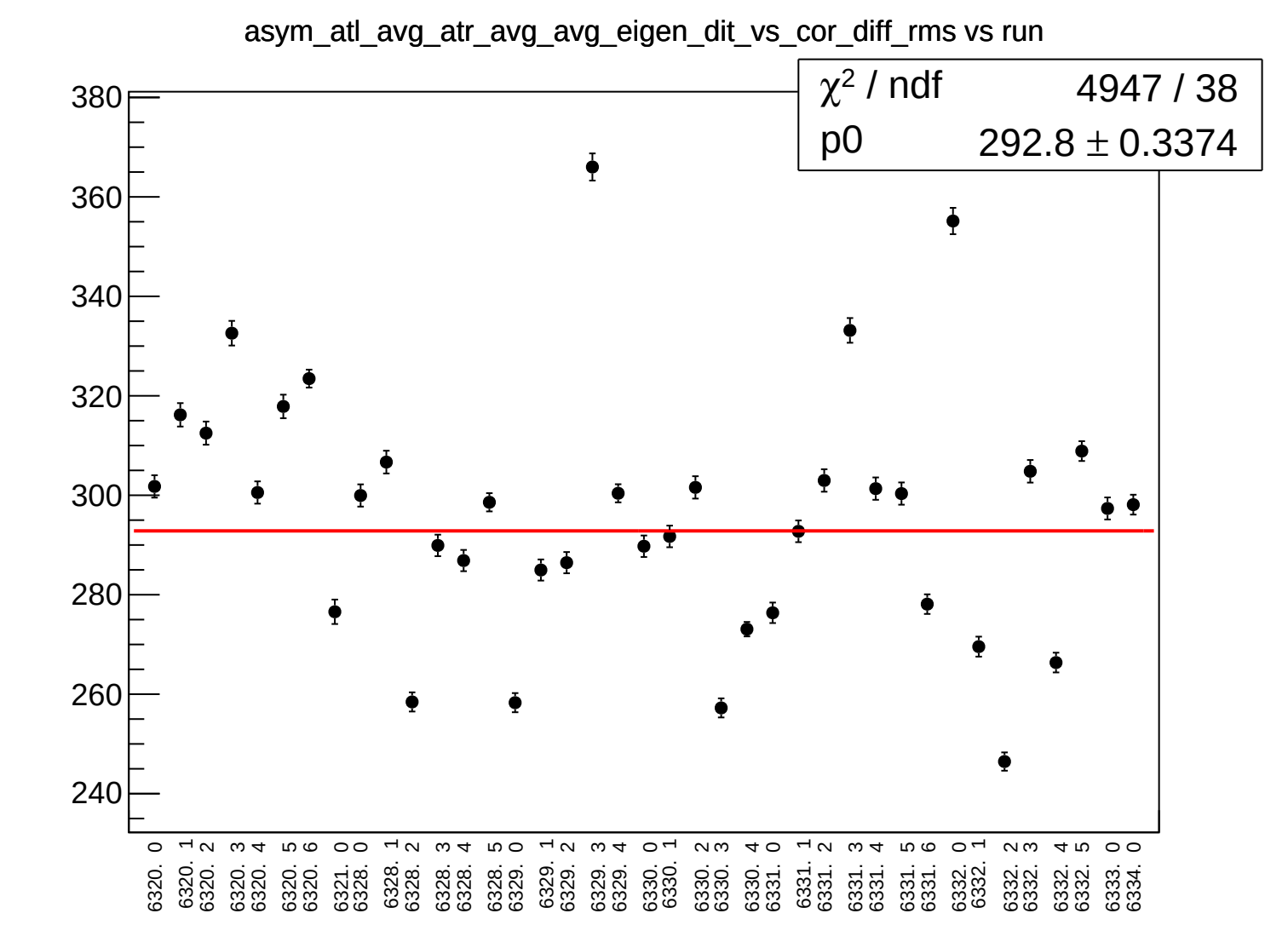

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4948 / 38
p0 292.8 ± 0.3374
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

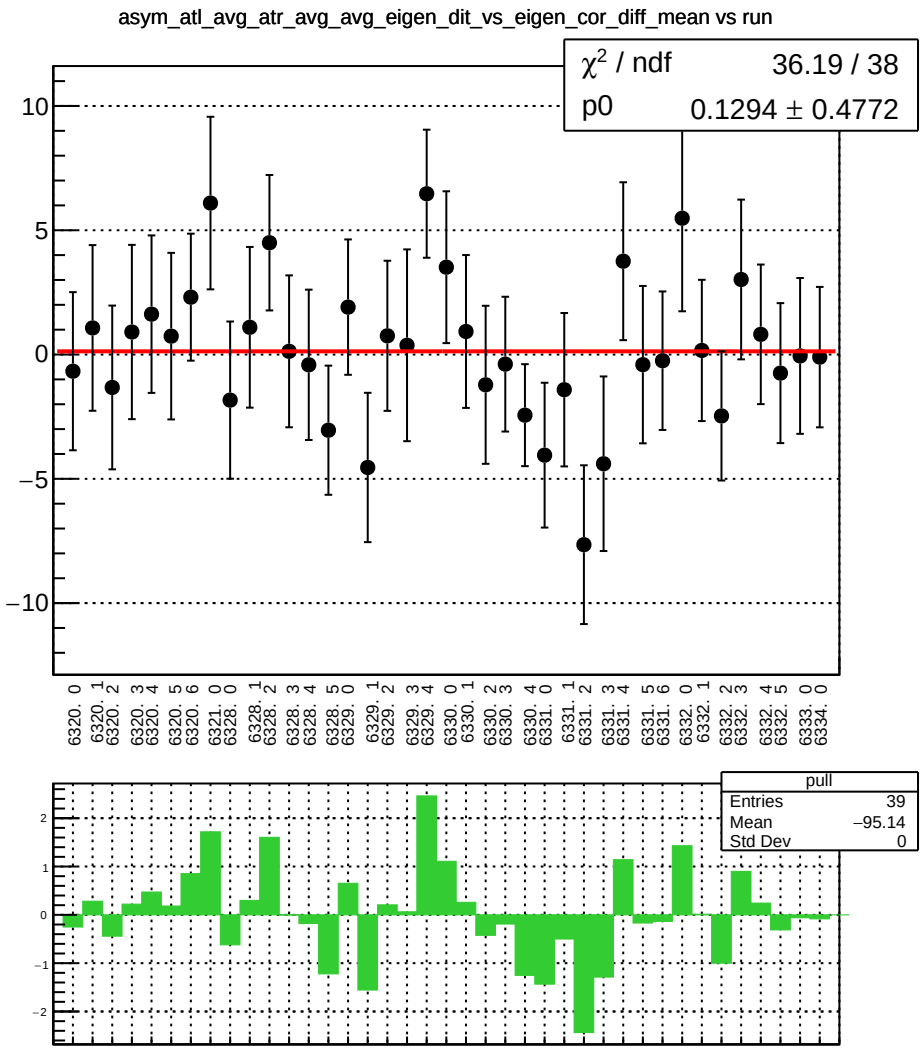

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.89 / 38
p0 −7.991e−06 ± 2.657e−05
pull
Entries 39
Mean −7.066
Std Dev 13.63

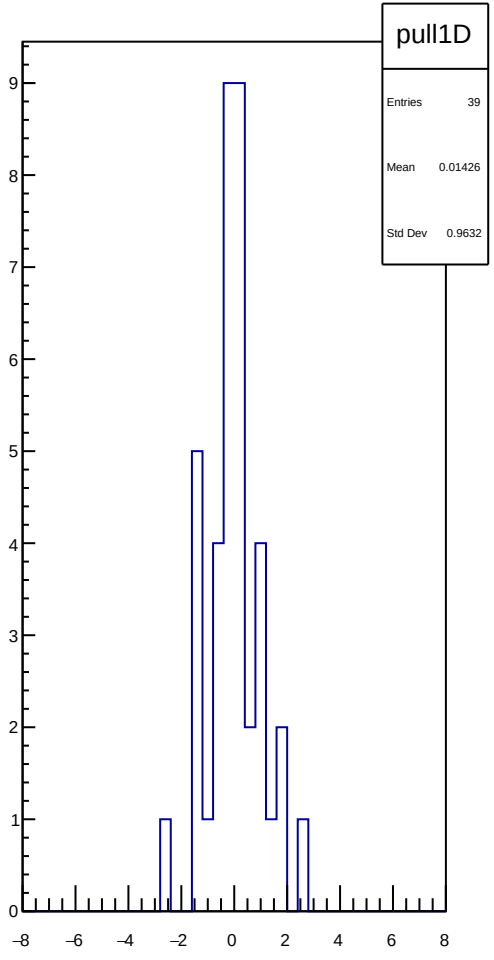

pull1D
Entries 39
Mean −0.02948
Std Dev 0.8451

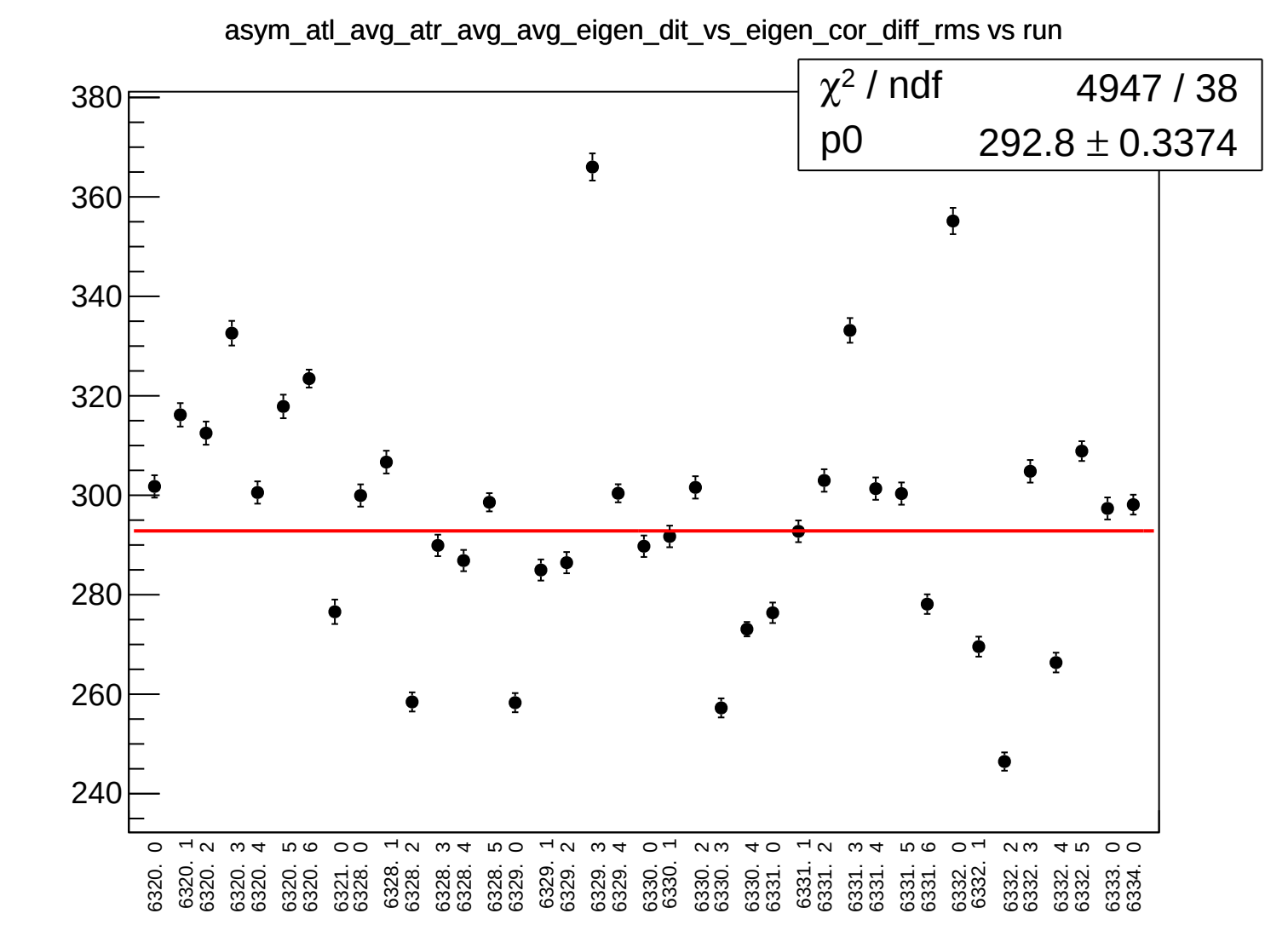

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.281e+04 / 38
p0 0.01622 ± 1.879e−05
0.024
0.022
0.02
0.018
0.016
0.014
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

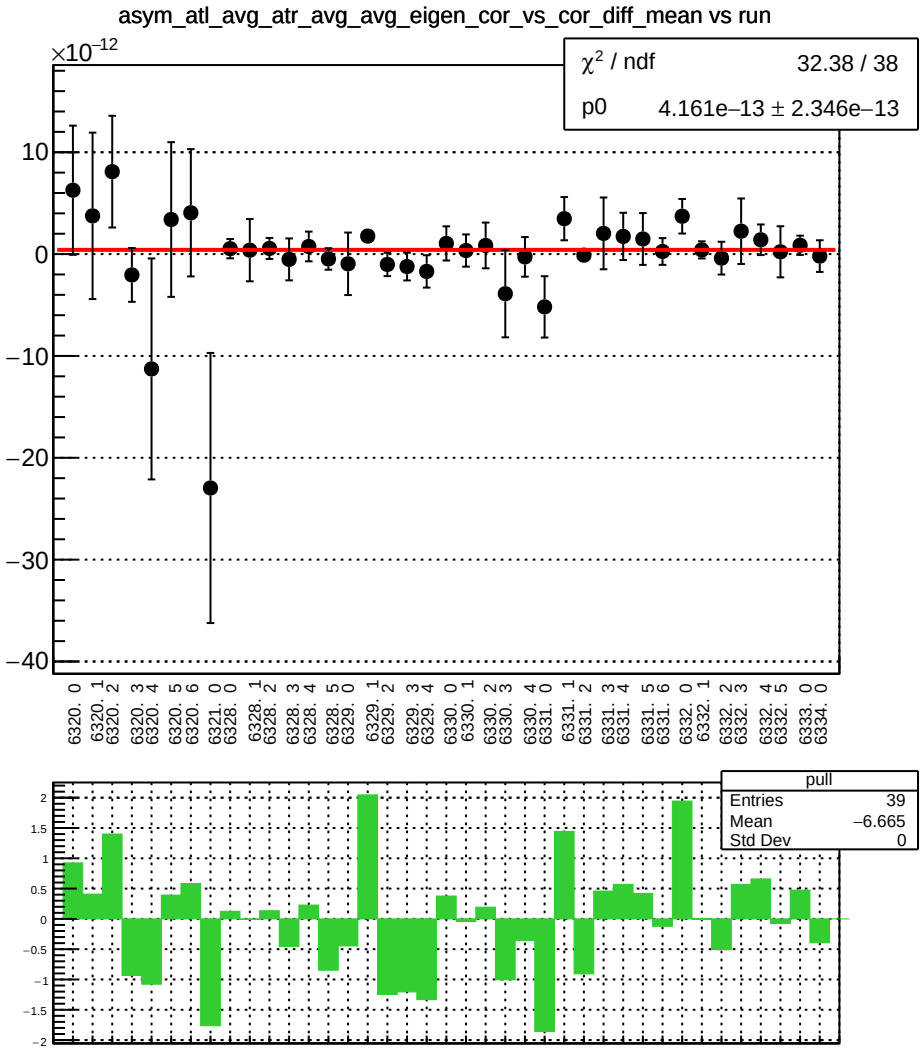

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 0.1294 ± 0.4772
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −95.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01426
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

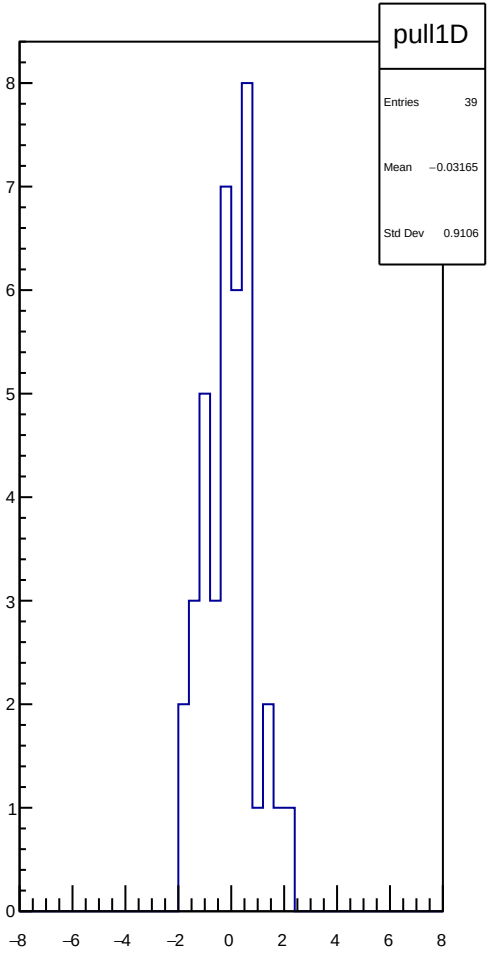

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4947 / 38
p0 292.8 ± 0.3374
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

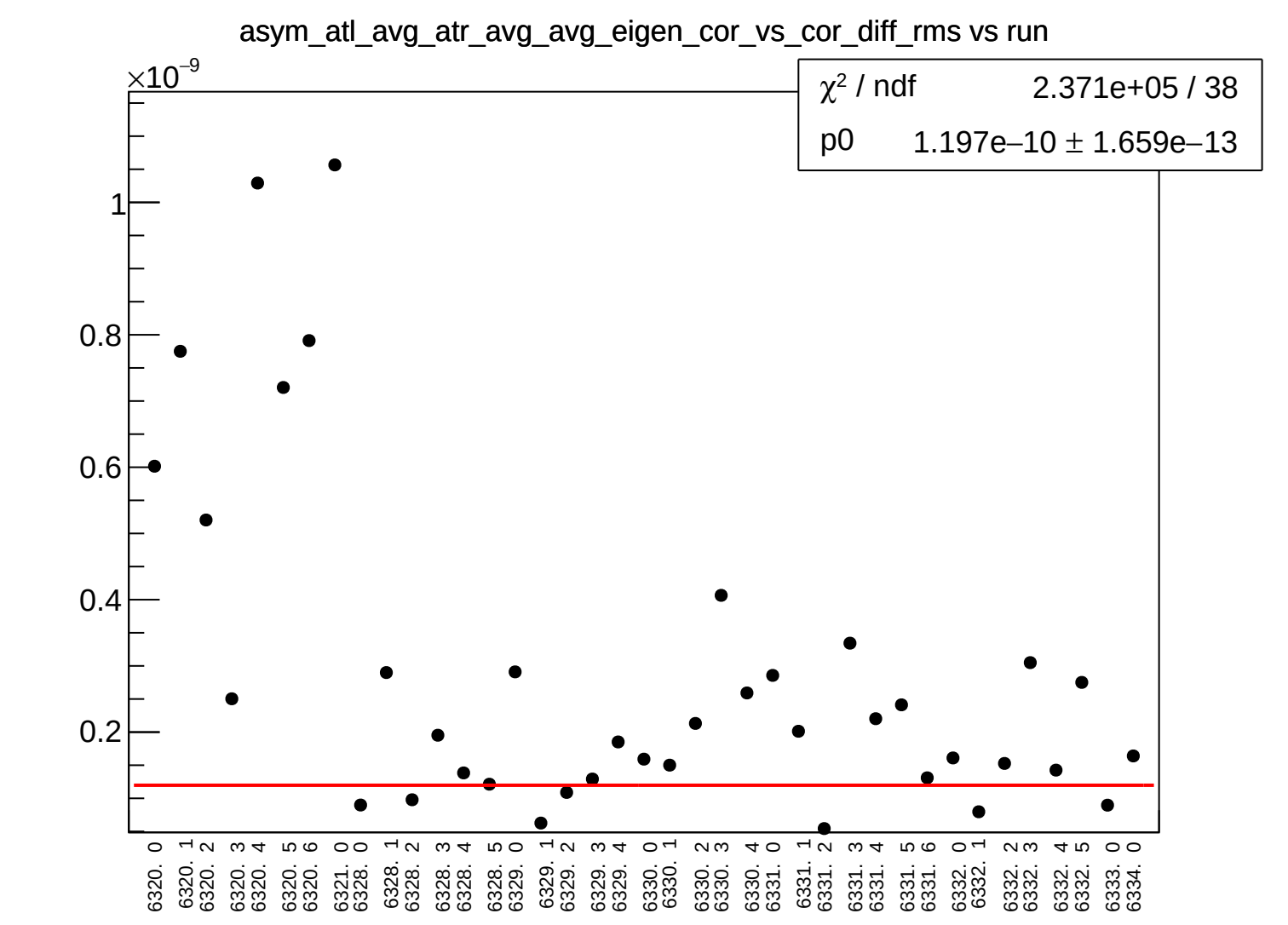

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 0.1294 ± 0.4772
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −95.14
Std Dev 0
2
1
0
−1
−2

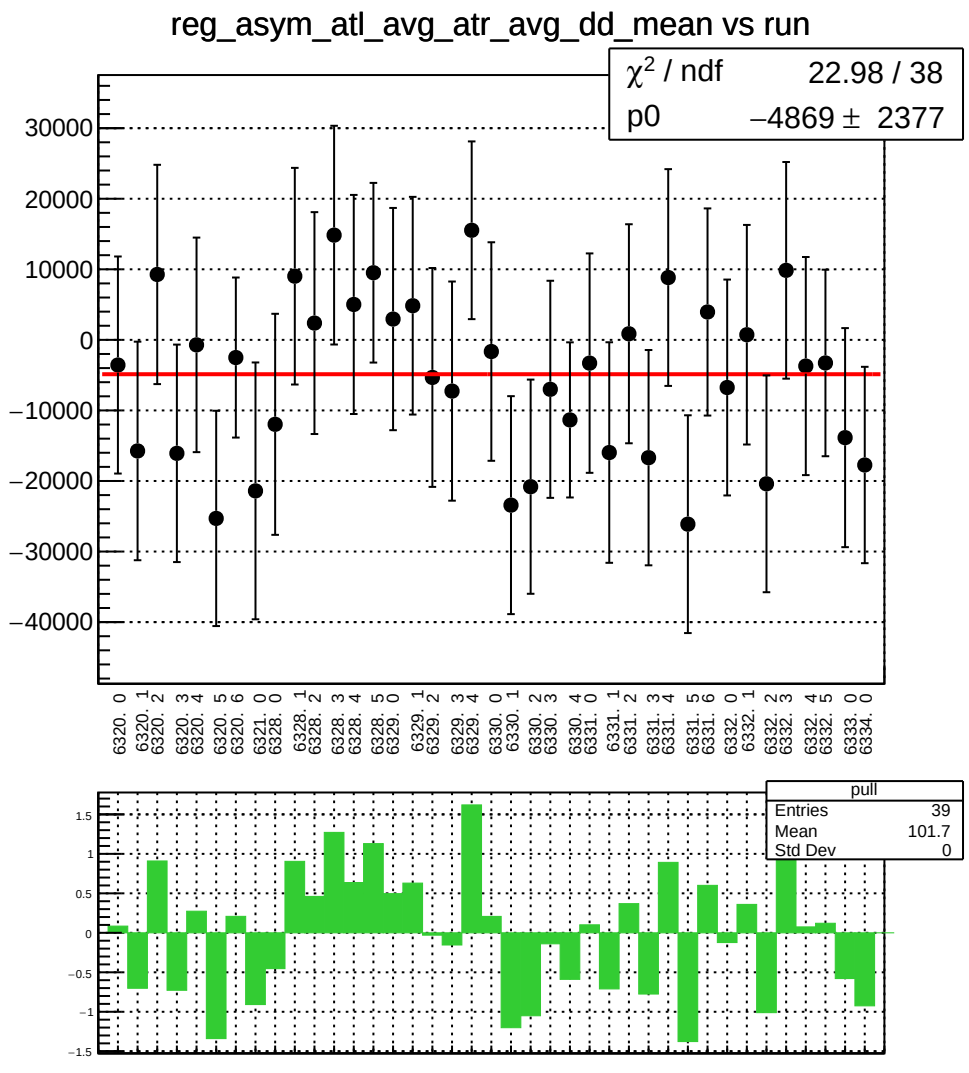

pull1D
Entries 39
Mean 0.01426
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

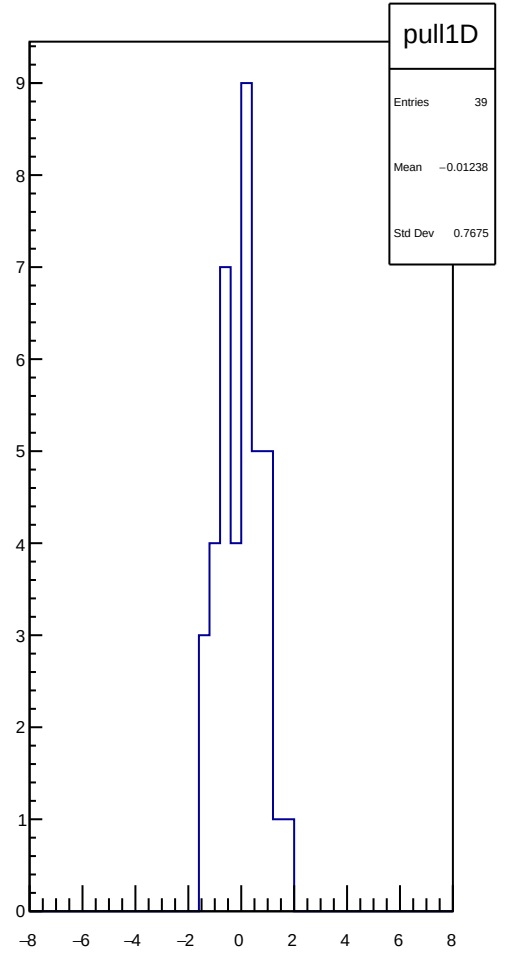

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4947 / 38
p0 292.8 ± 0.3374
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

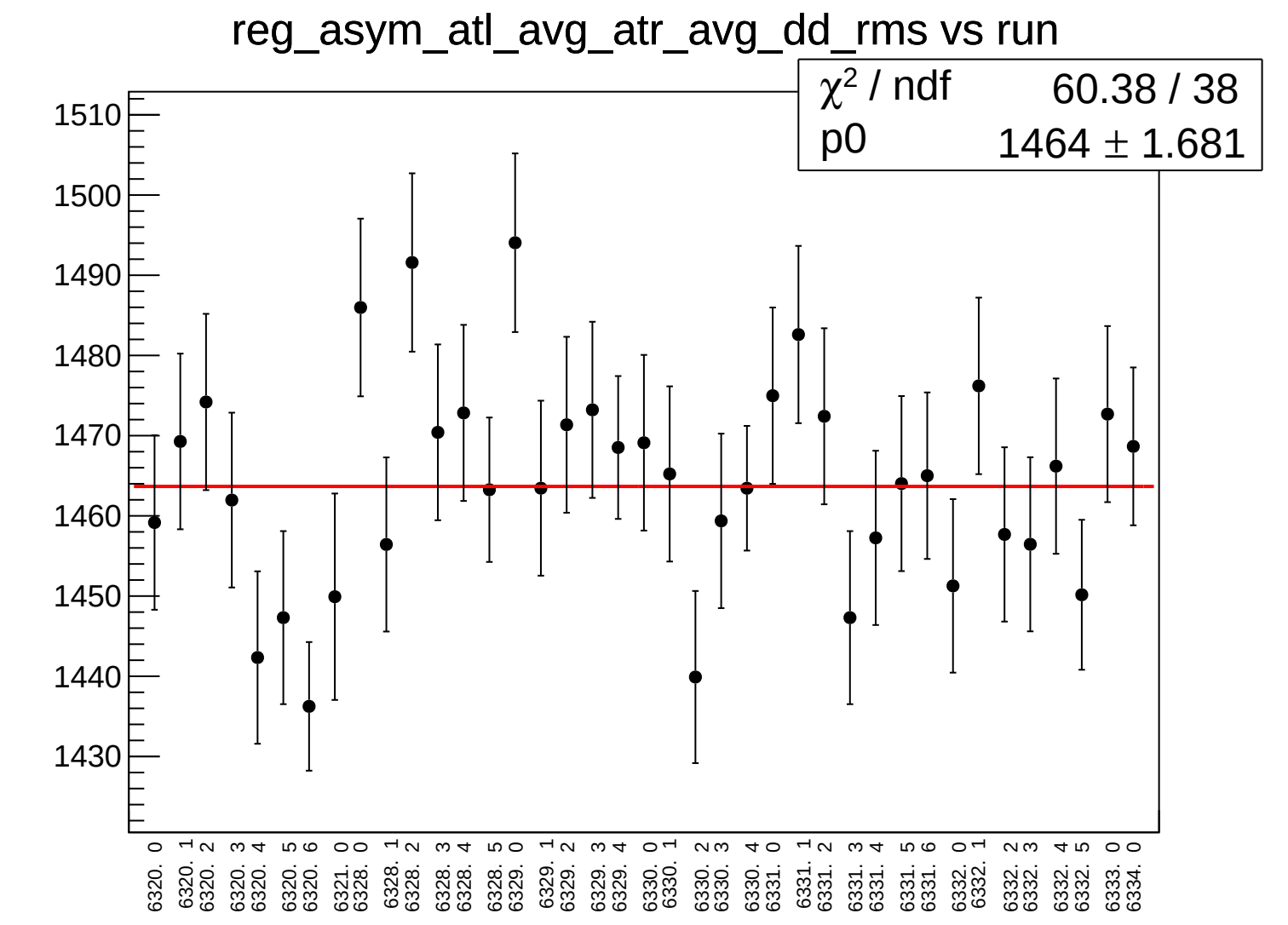

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.38 / 38
p0 4.161e−13 ± 2.346e−13
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.665
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

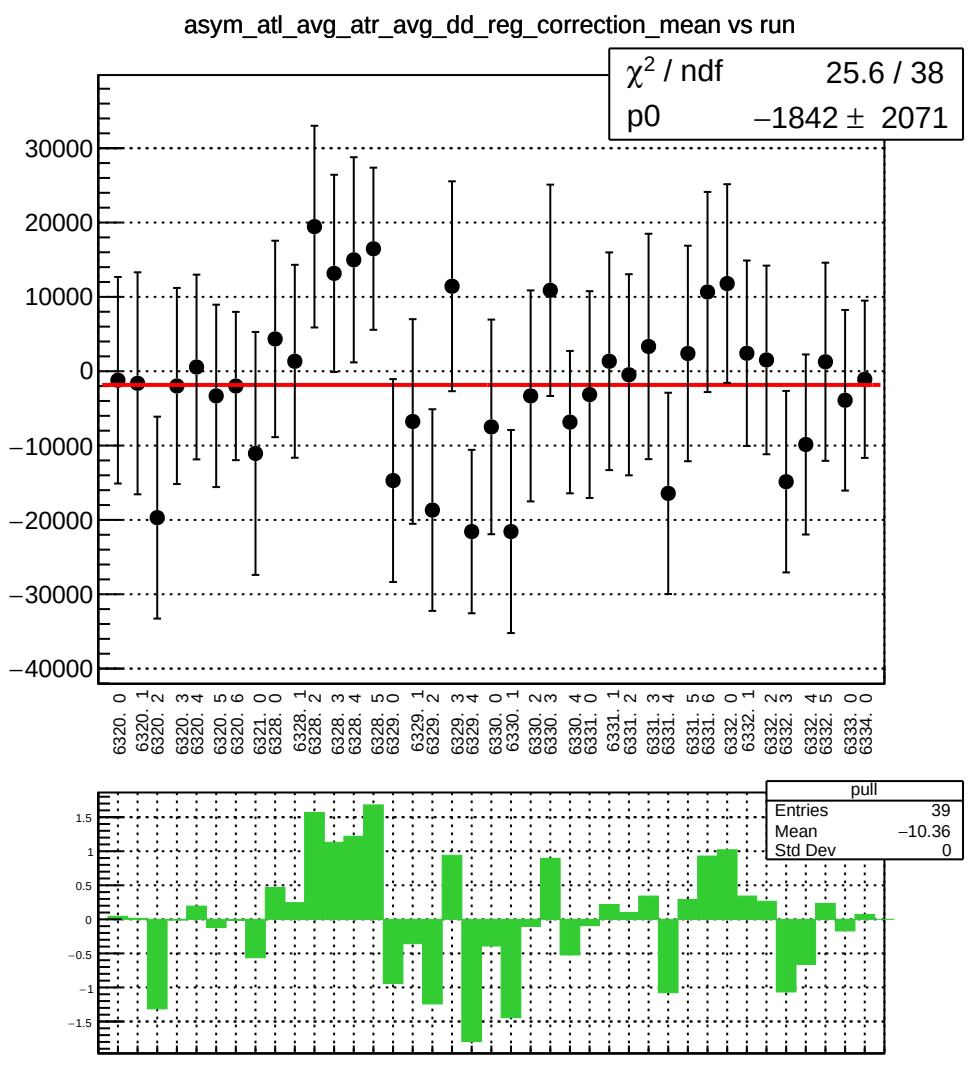

pull1D
Entries 39
Mean −0.03165
Std Dev 0.9106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

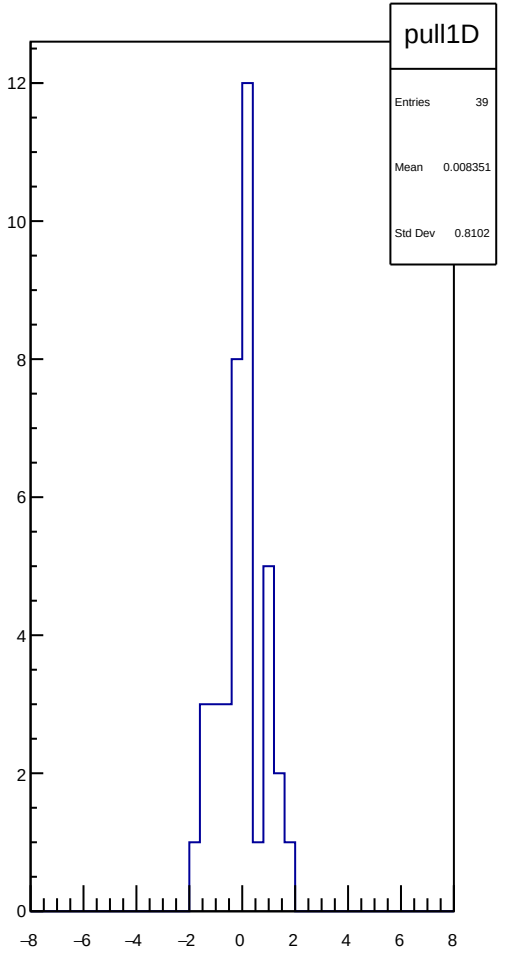

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.371e+05 / 38
p0 1.197e−10 ± 1.659e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

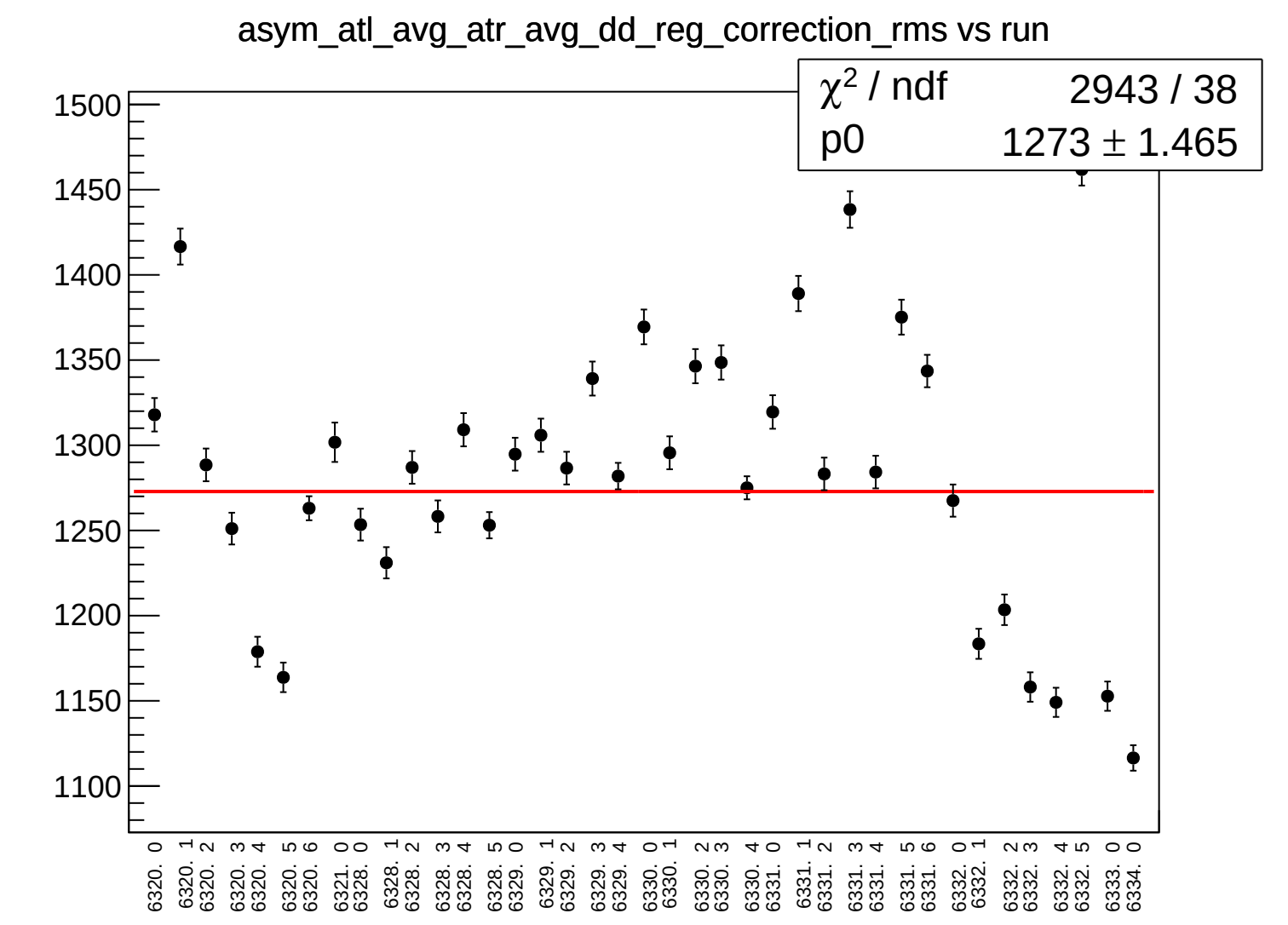

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

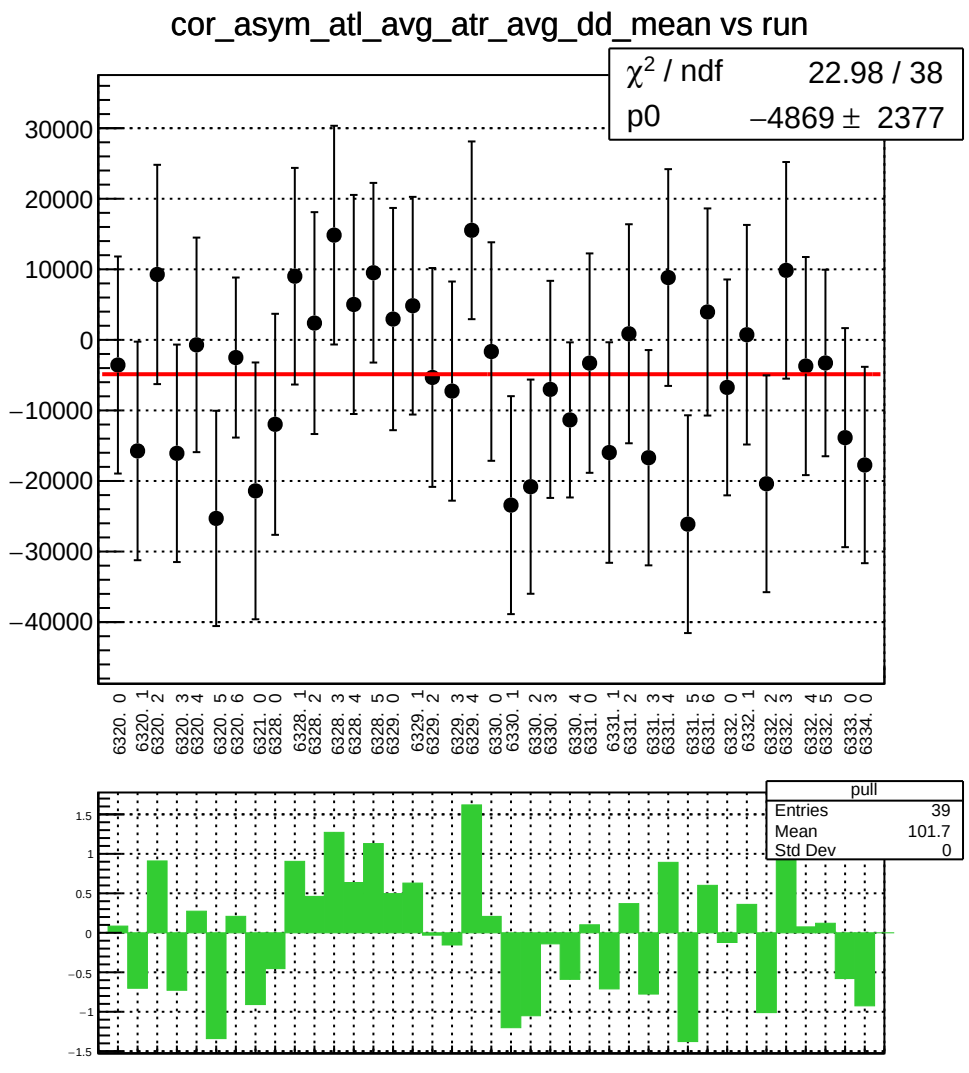

pull1D
Entries 39
Mean −0.01238
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

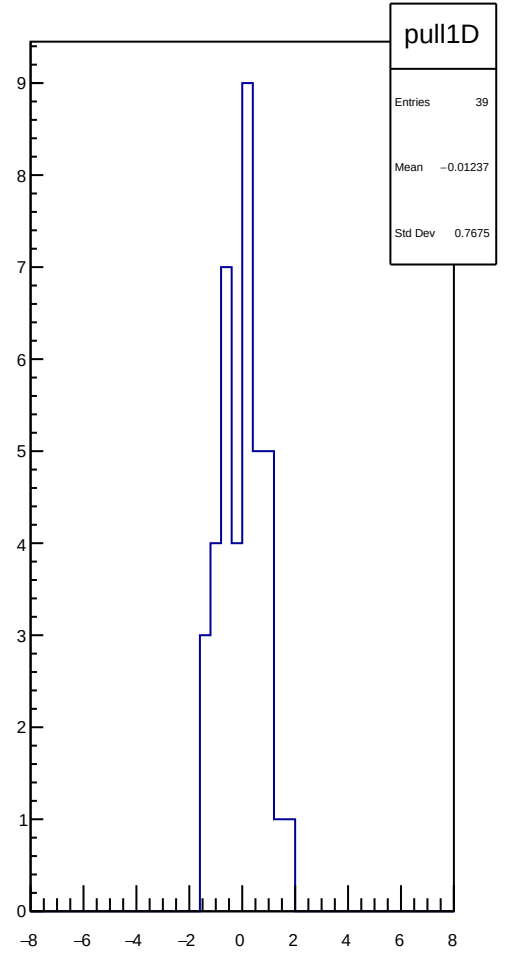

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

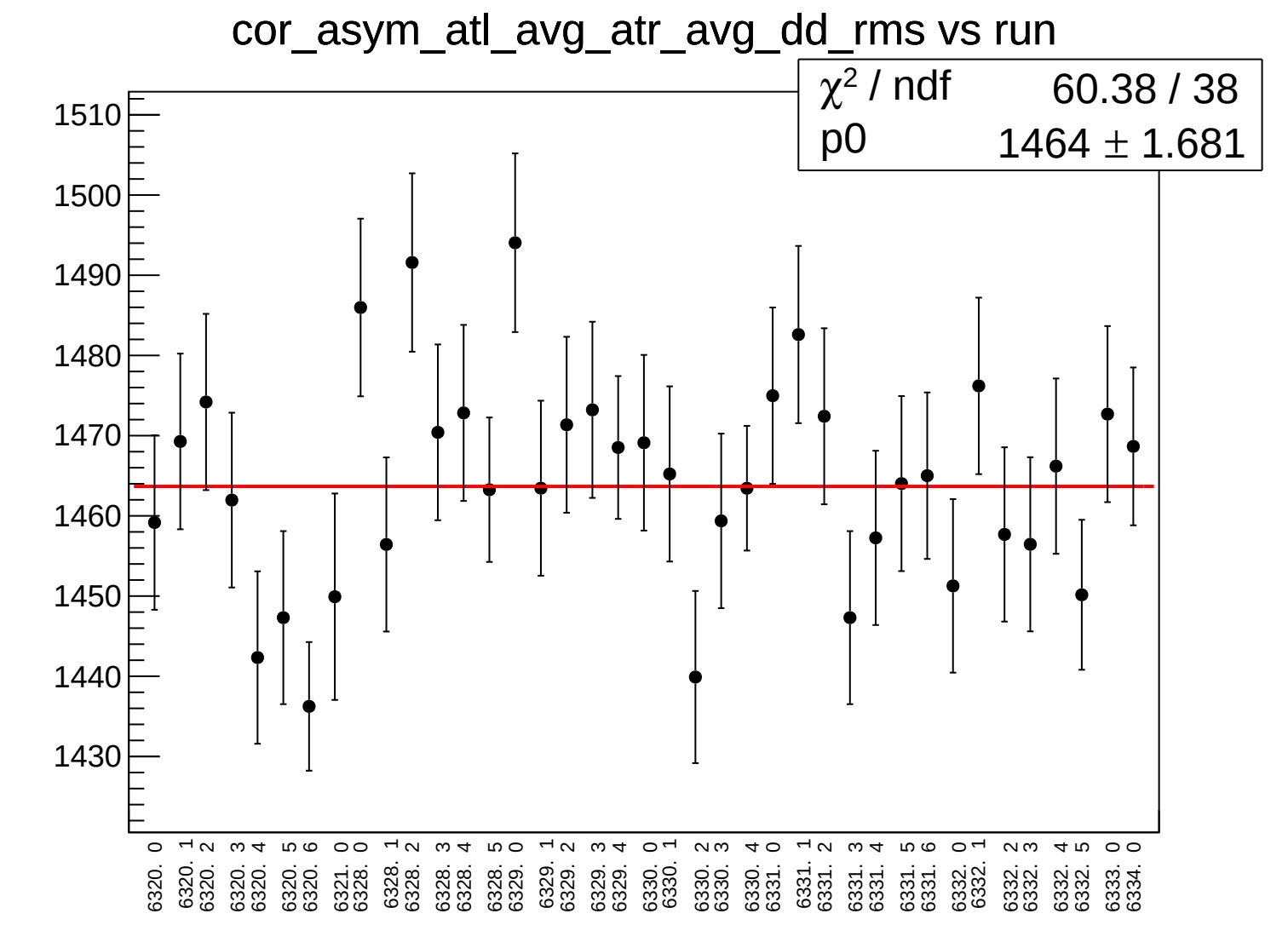

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

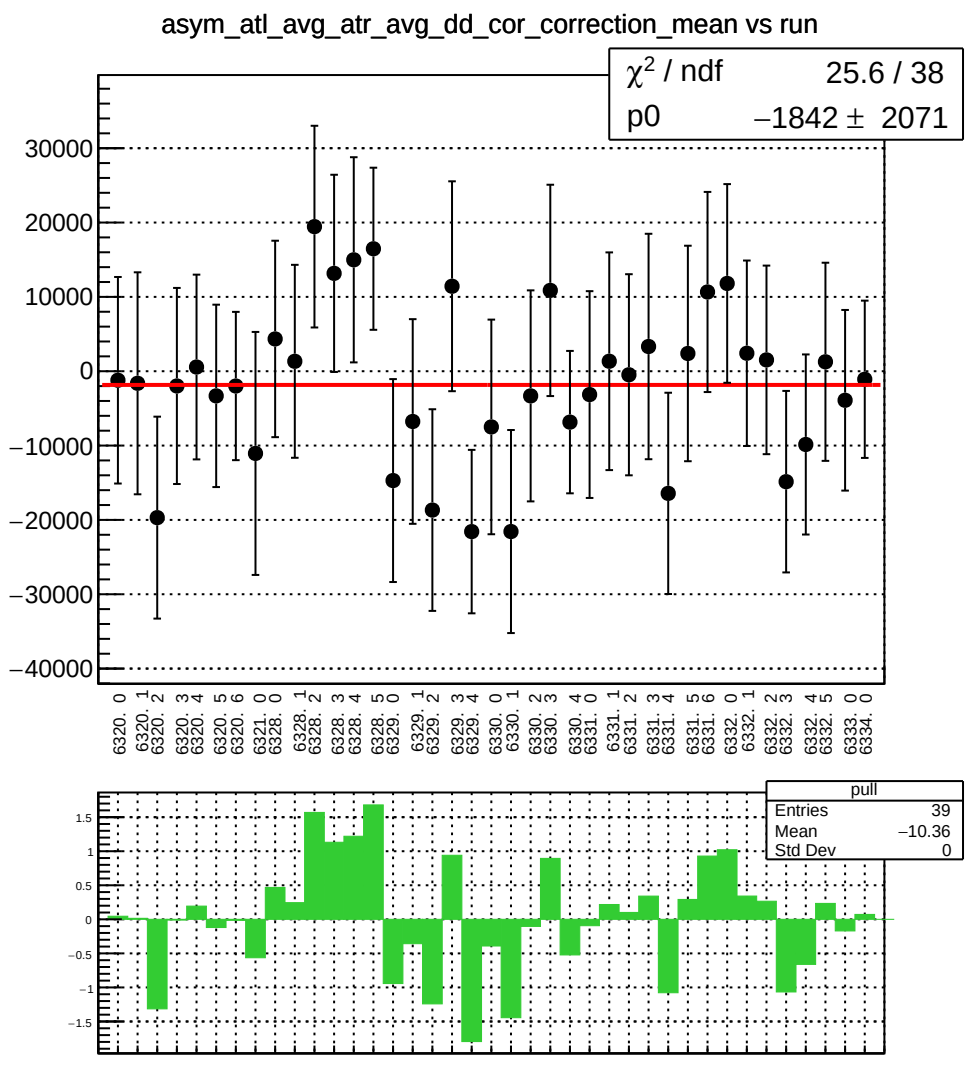

pull1D
Entries 39
Mean 0.008351
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

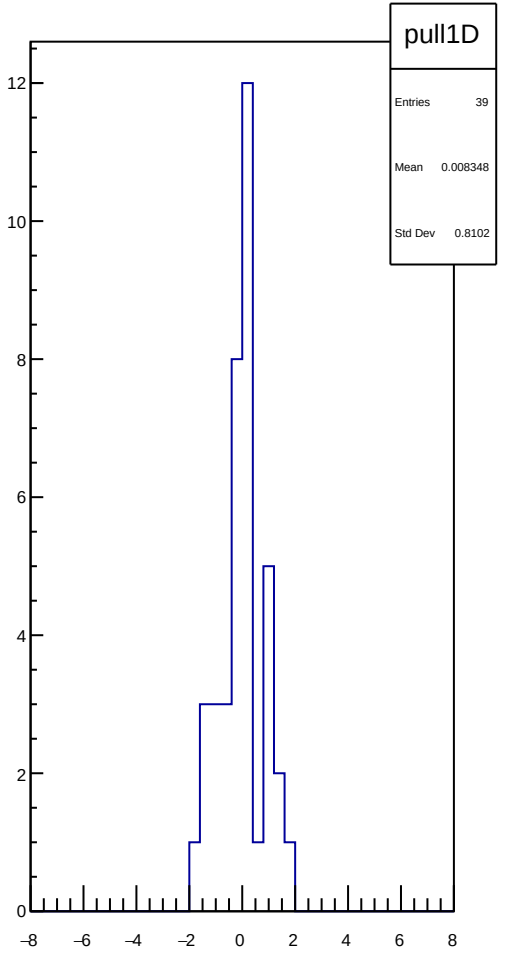

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2943 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

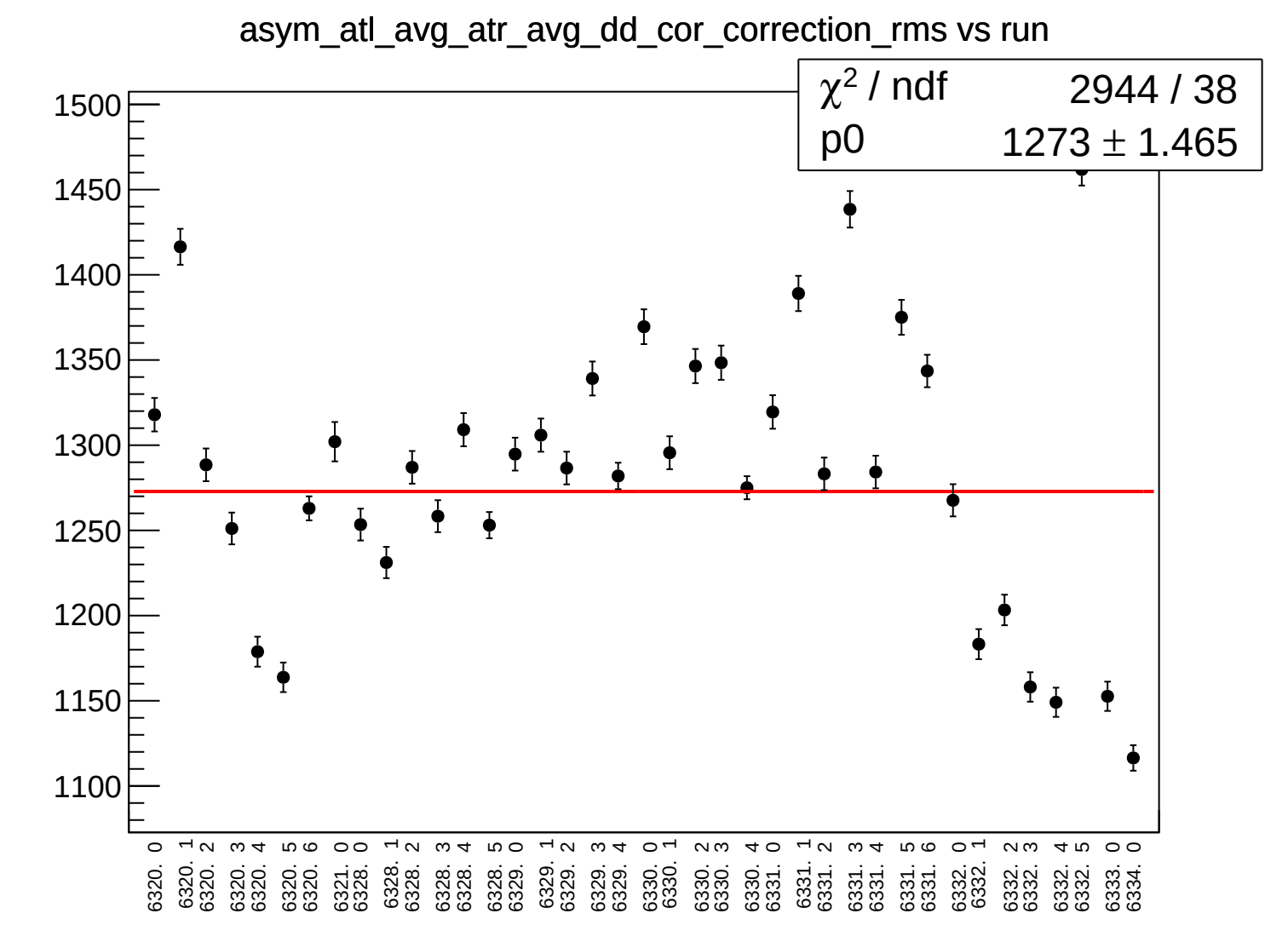

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

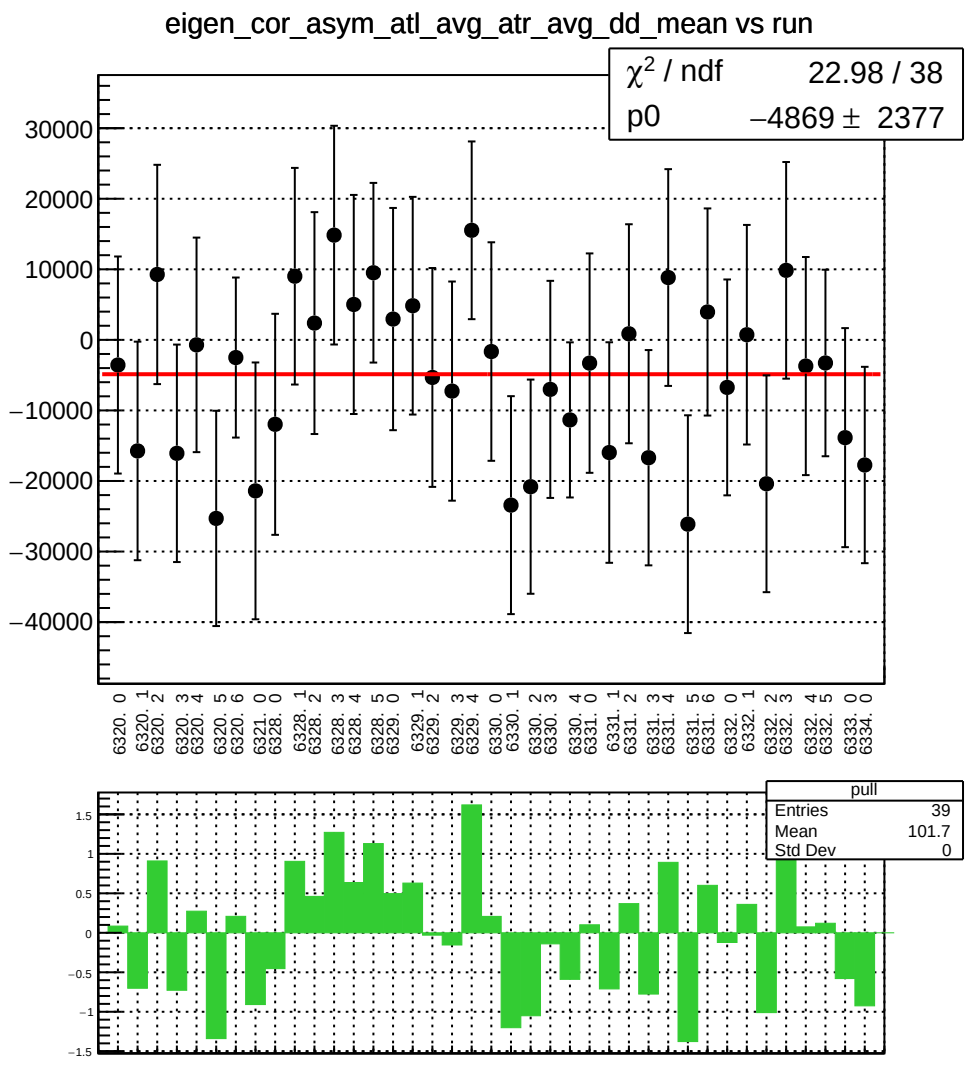

pull1D
Entries 39
Mean −0.01237
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

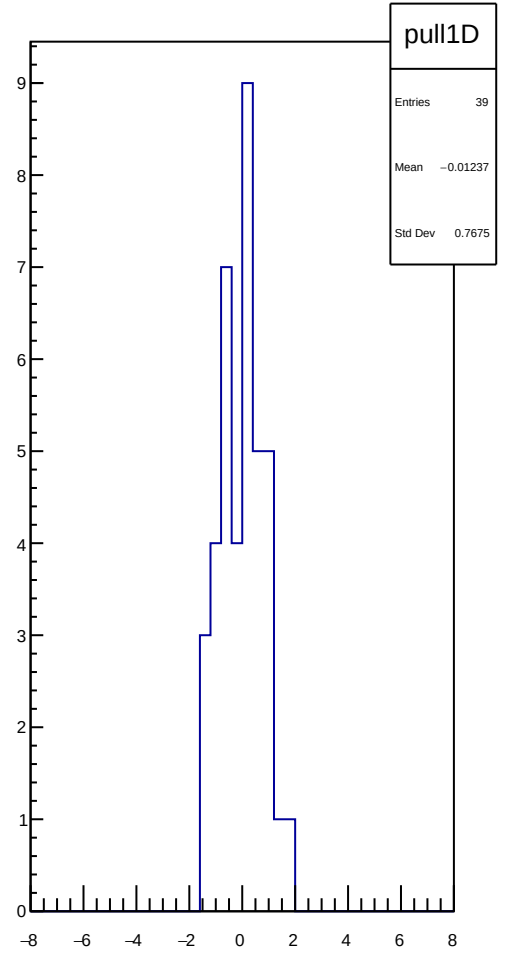

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

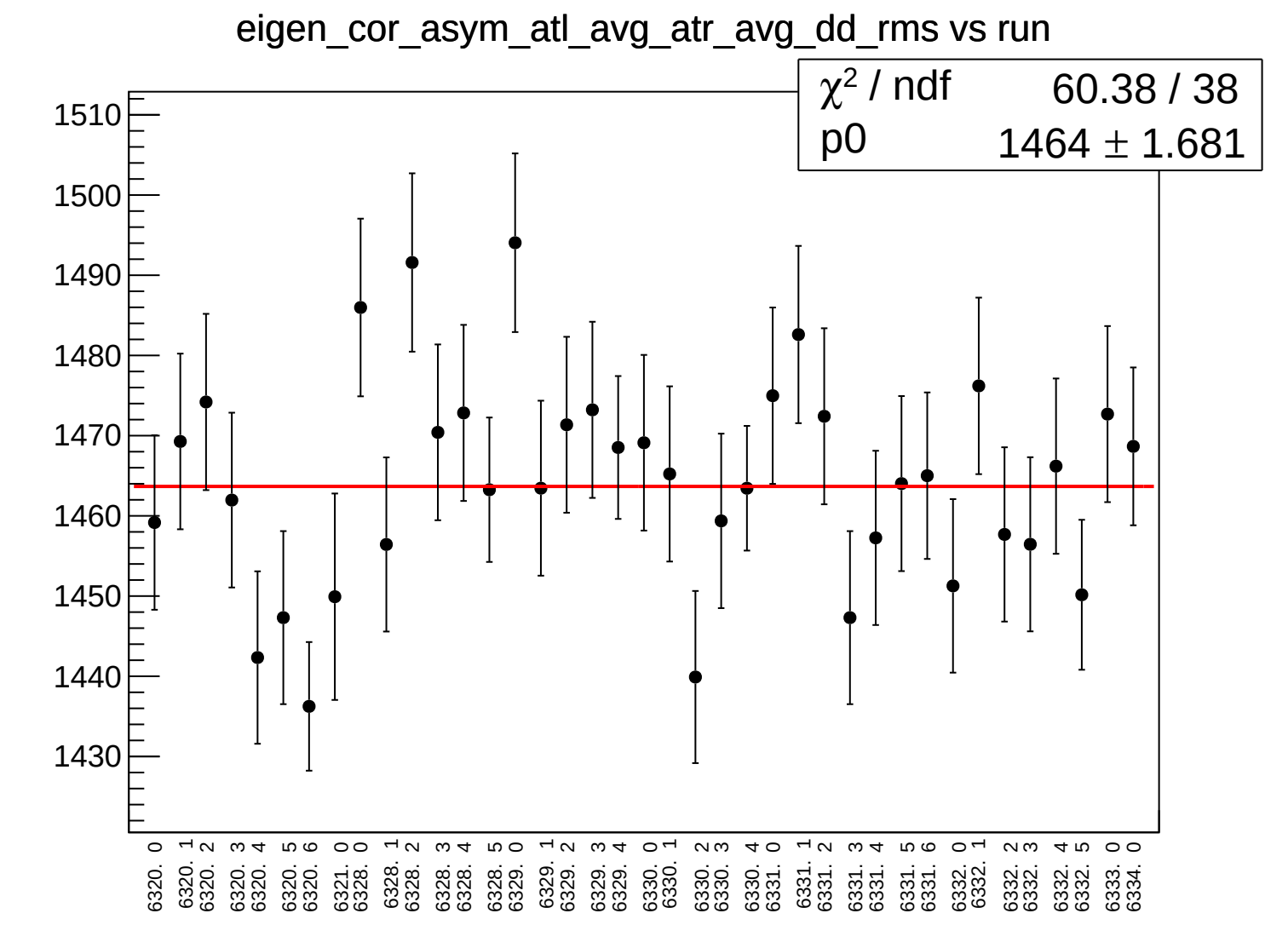

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

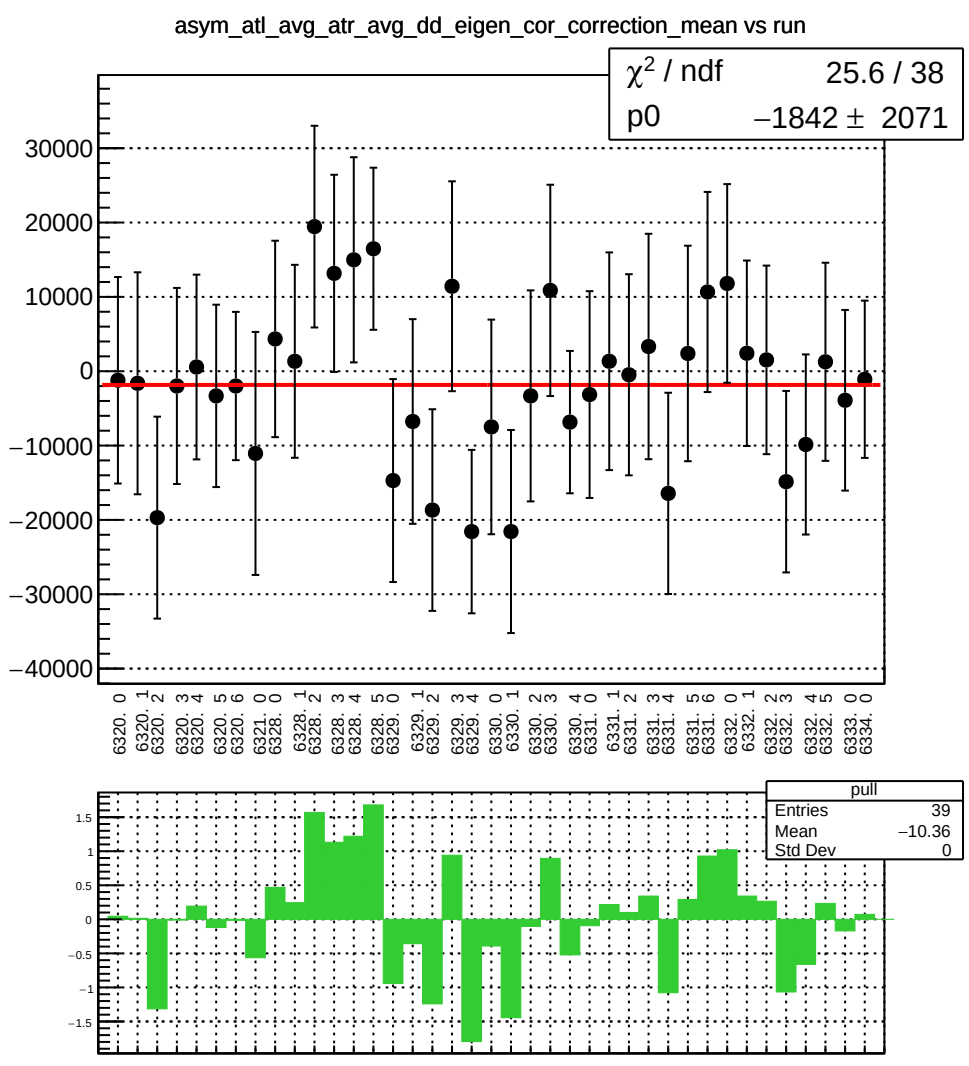

pull1D
Entries 39
Mean 0.008348
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

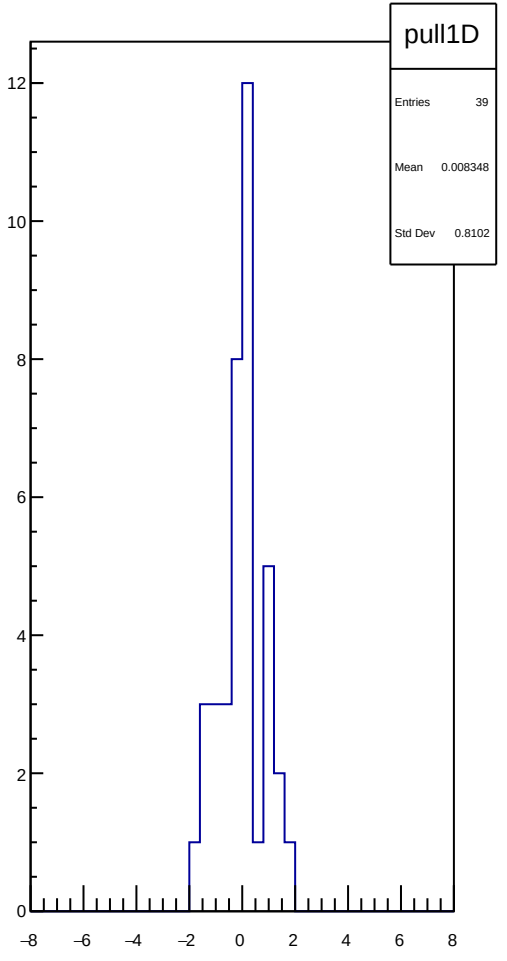

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2944 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

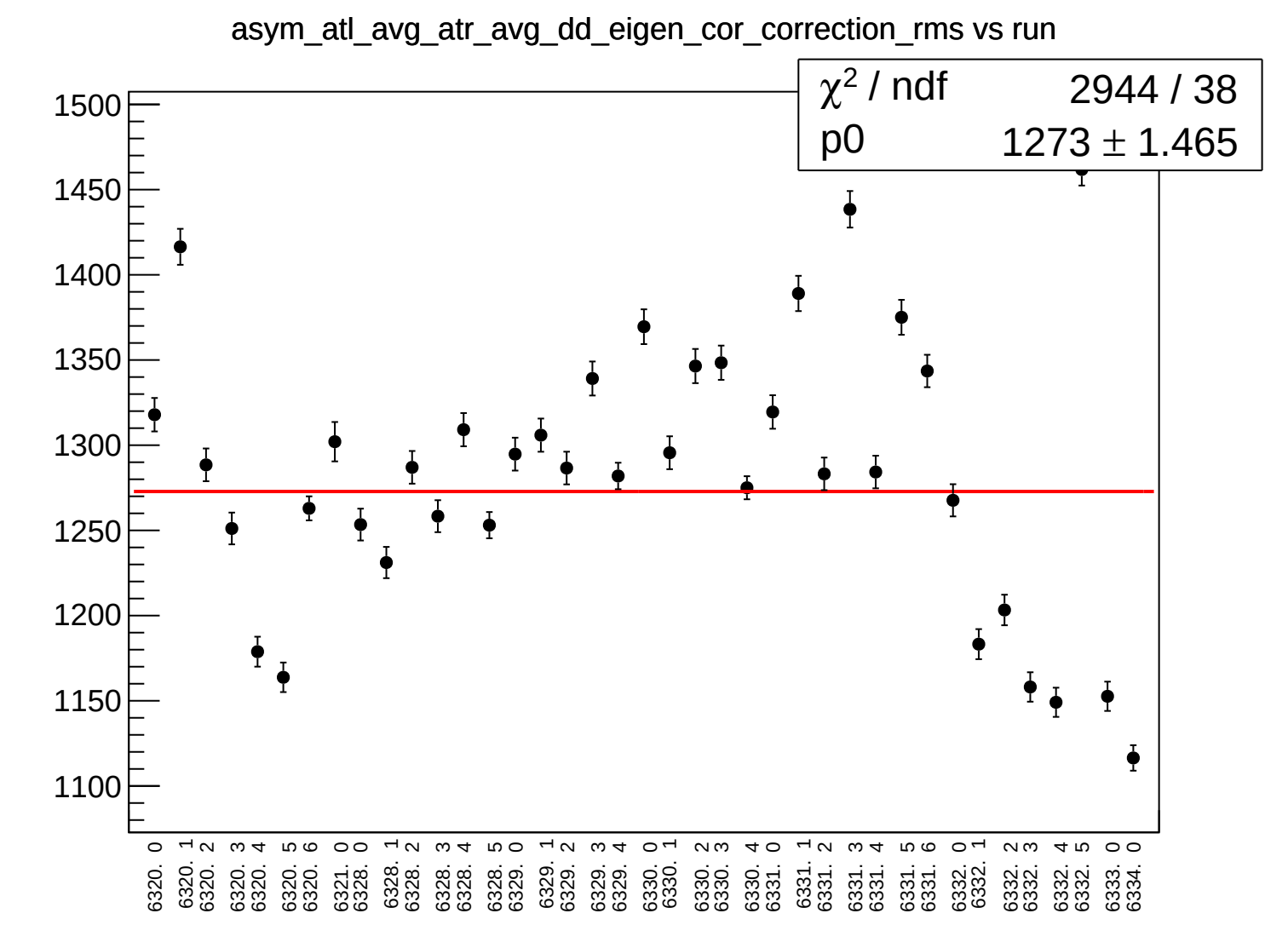

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

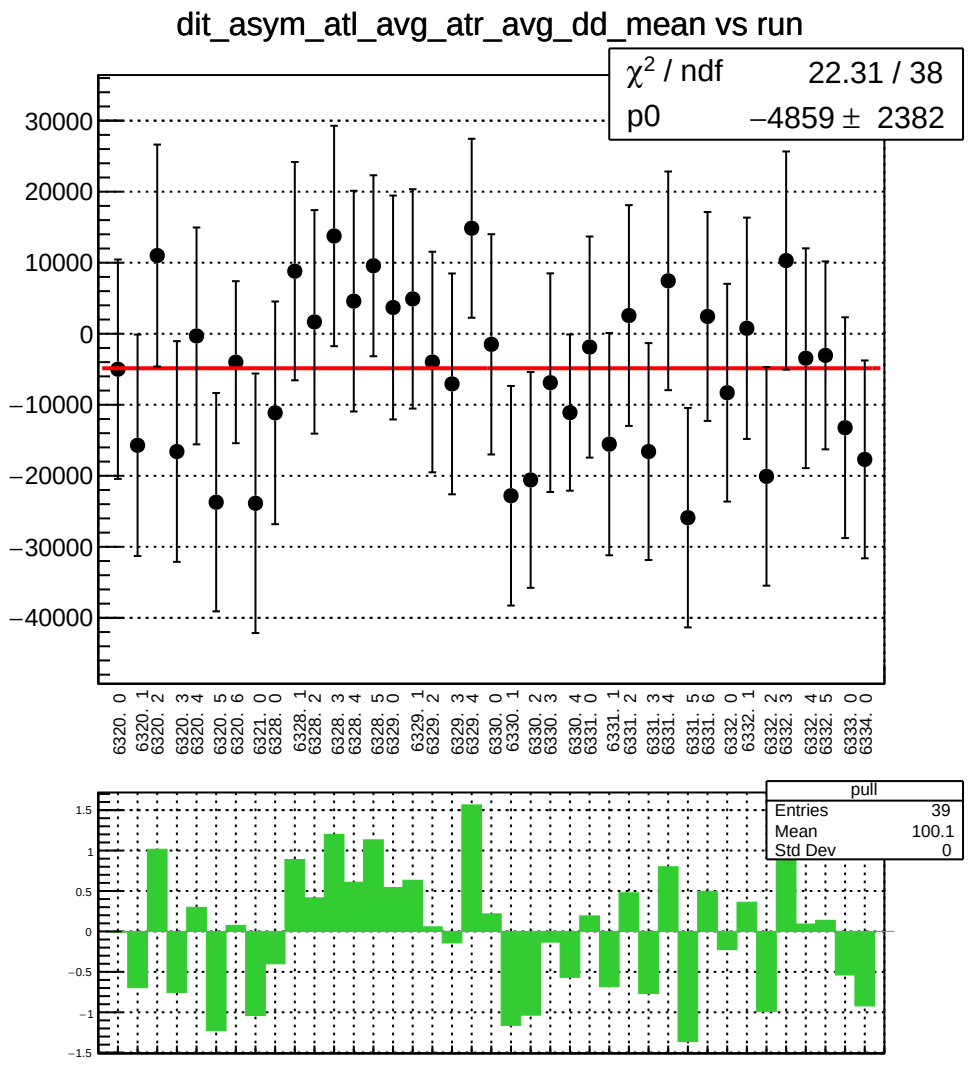

pull1D
Entries 39
Mean −0.01237
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

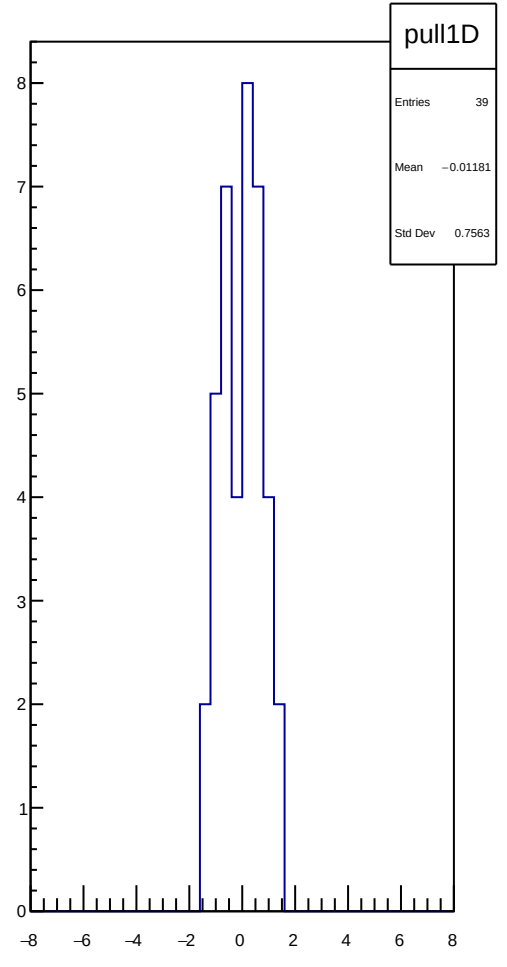

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

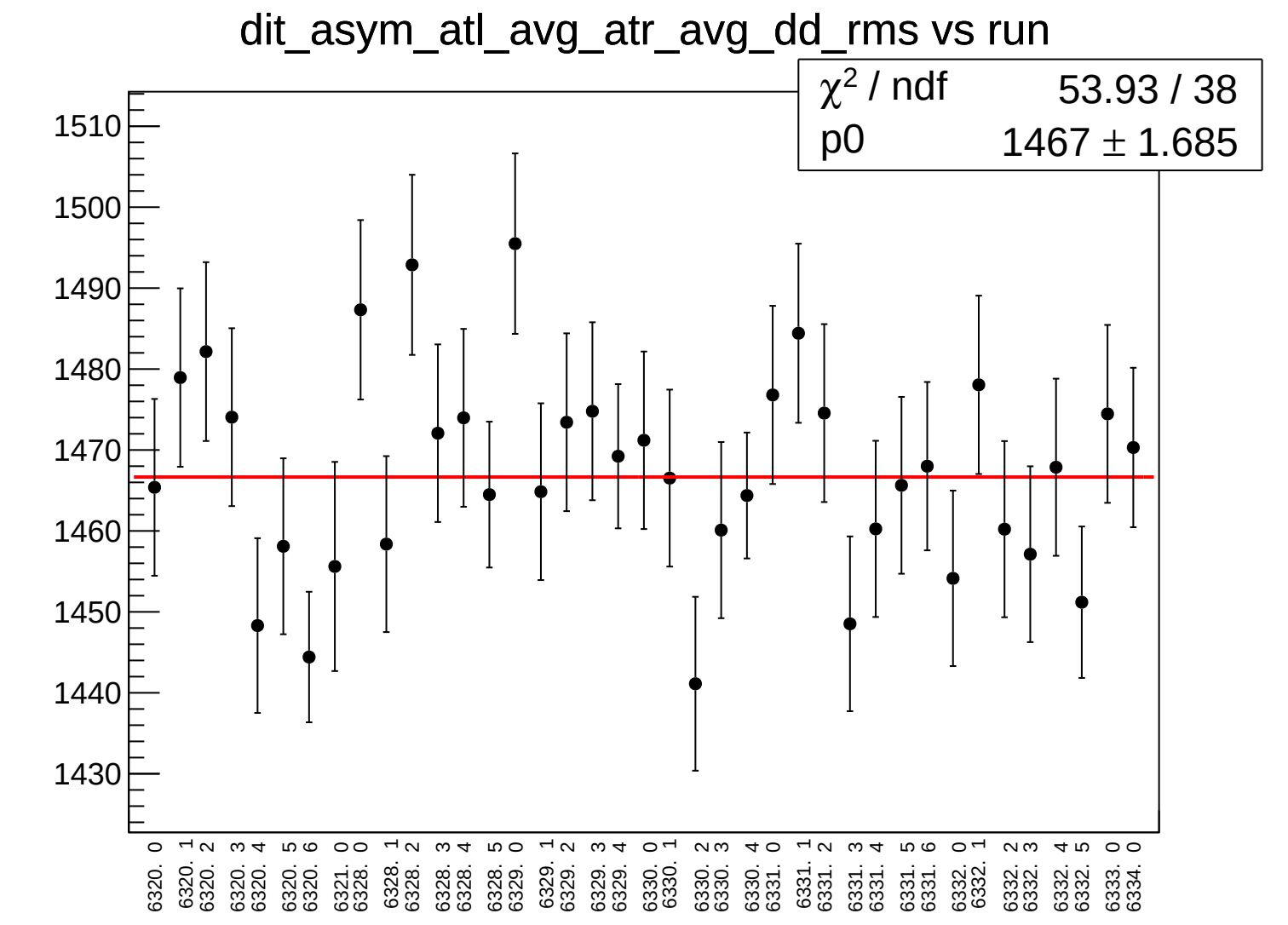

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

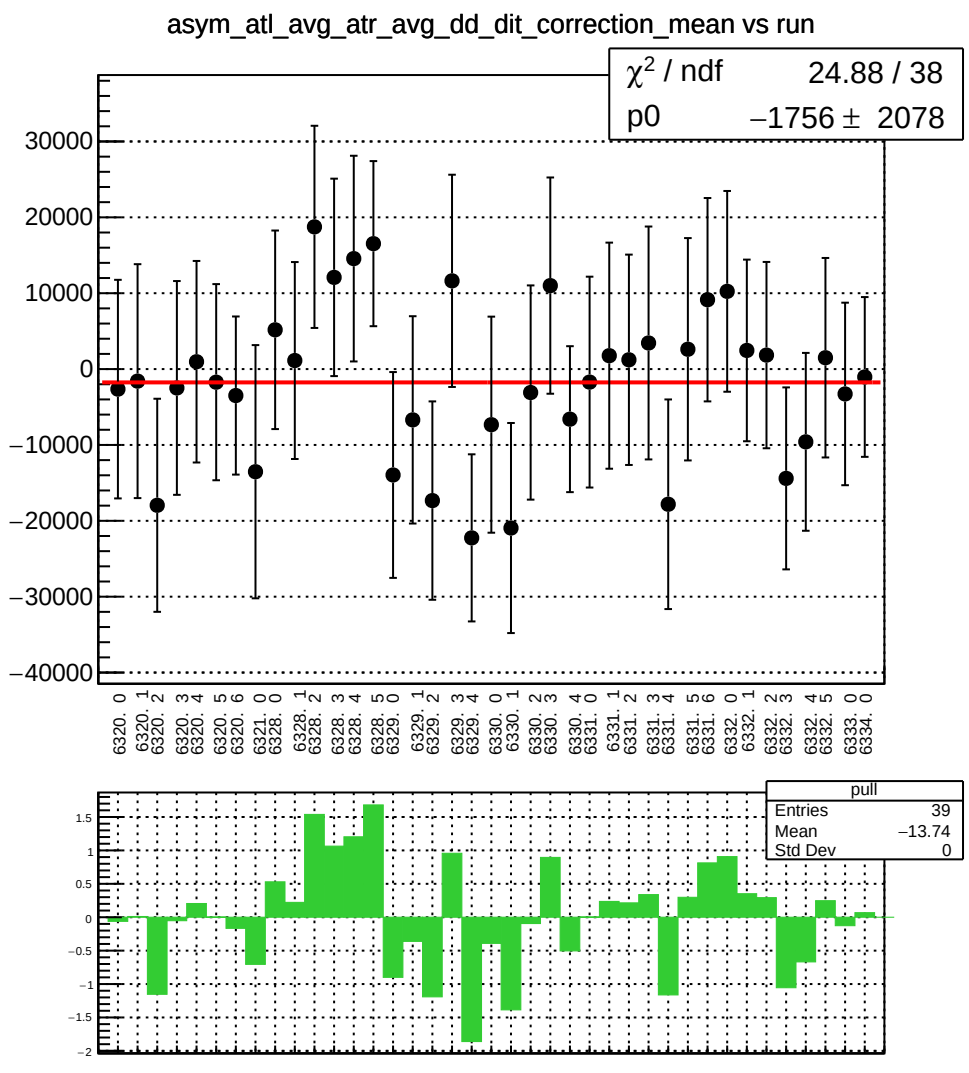

pull1D
Entries 39
Mean 0.008348
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

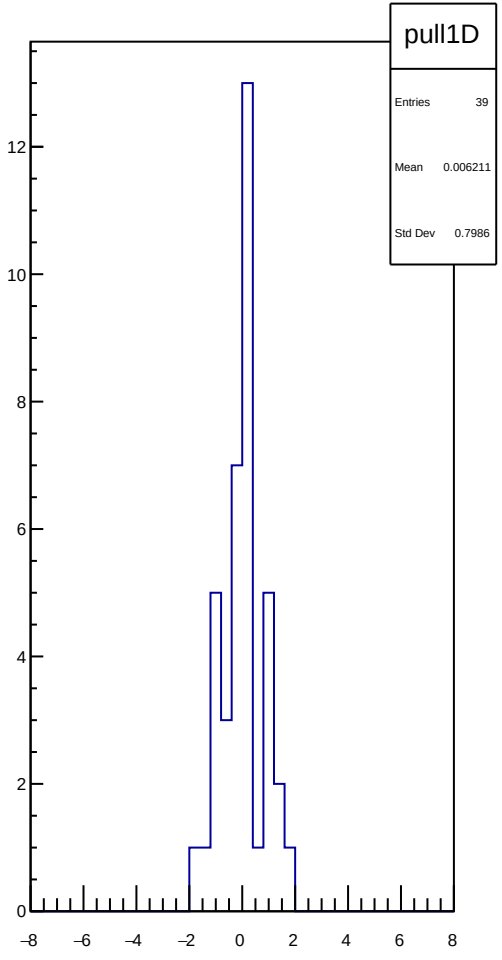

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2944 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

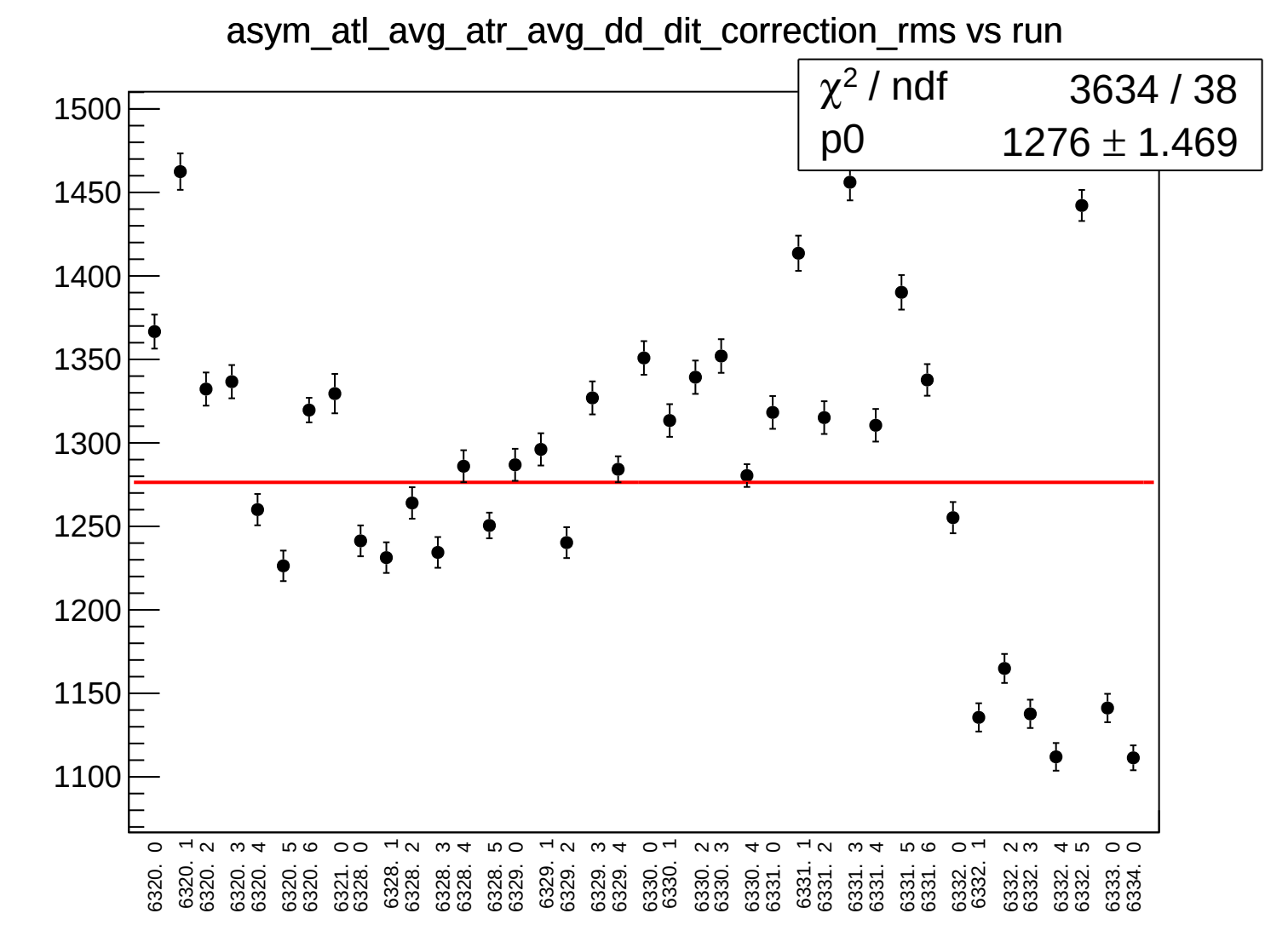

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.31 / 38
p0 −4859 ± 2382
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

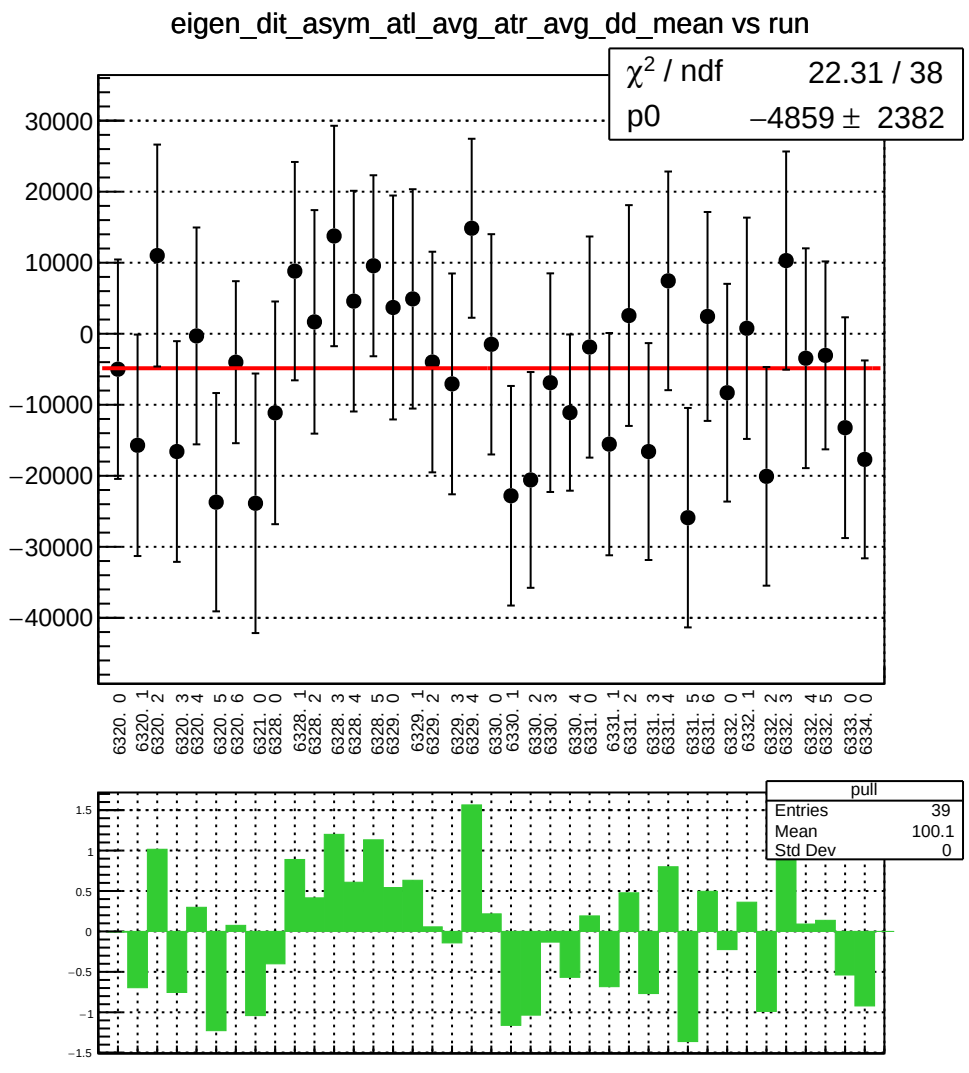

pull1D
Entries 39
Mean −0.01181
Std Dev 0.7563
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

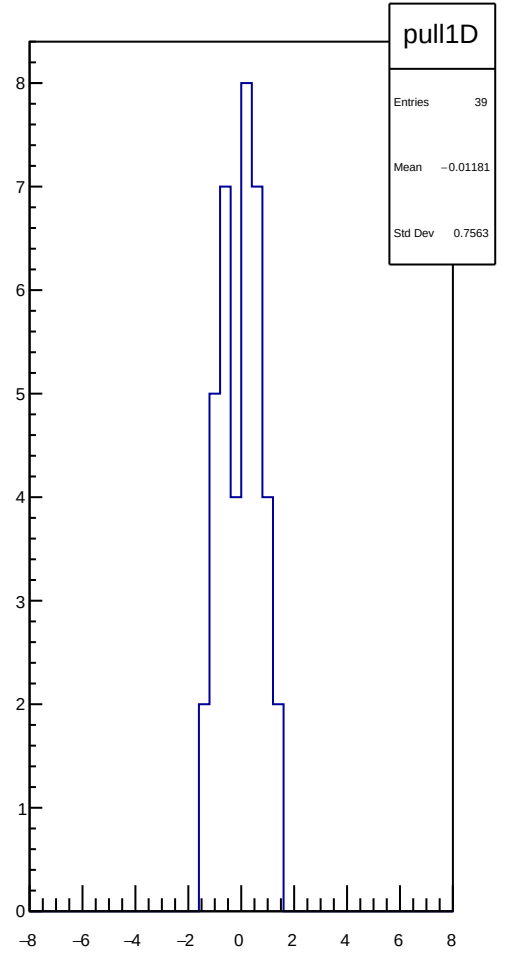

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 53.93 / 38
p0 1467 ± 1.685
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

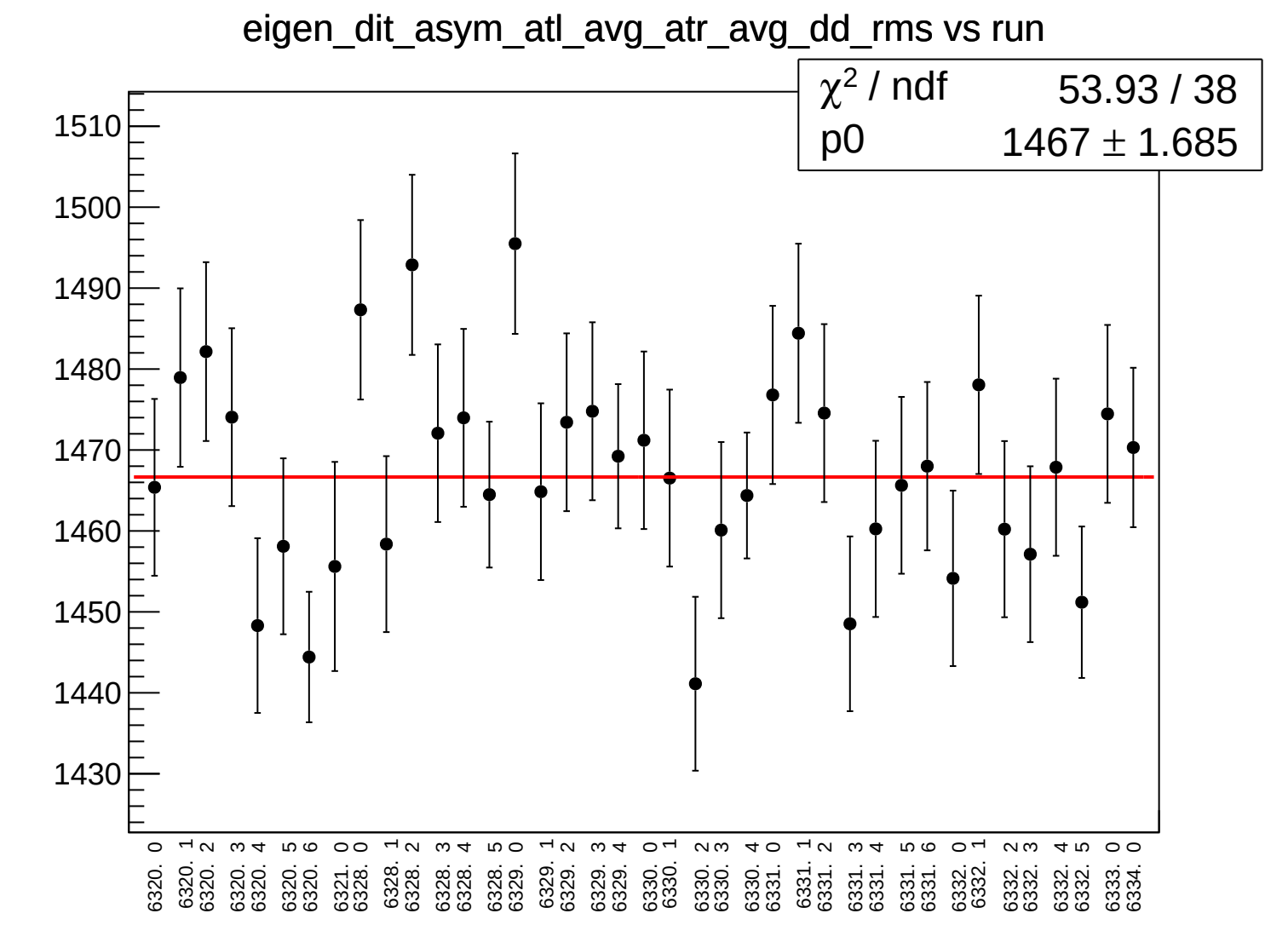

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 24.88 / 38
p0 −1756 ± 2078
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

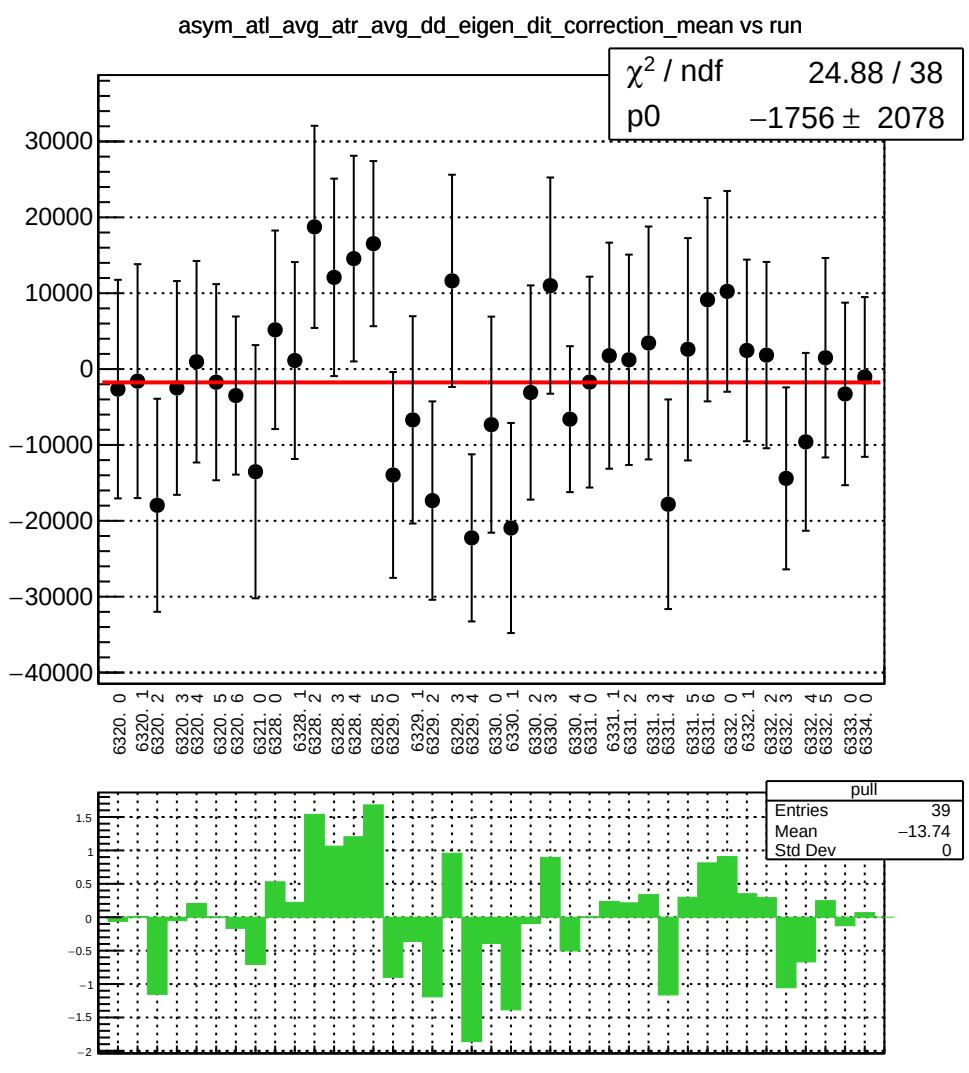

pull1D
Entries 39
Mean 0.006211
Std Dev 0.7986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

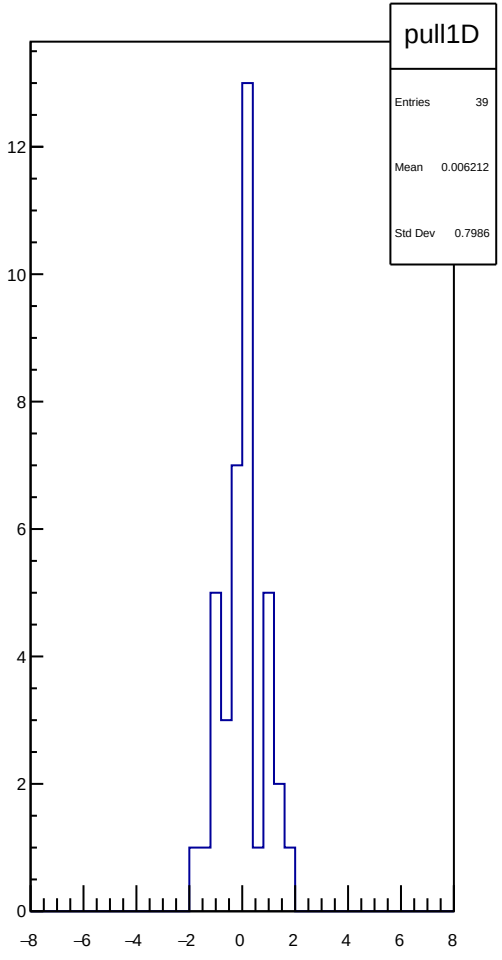

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3634 / 38
p0 1276 ± 1.469
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

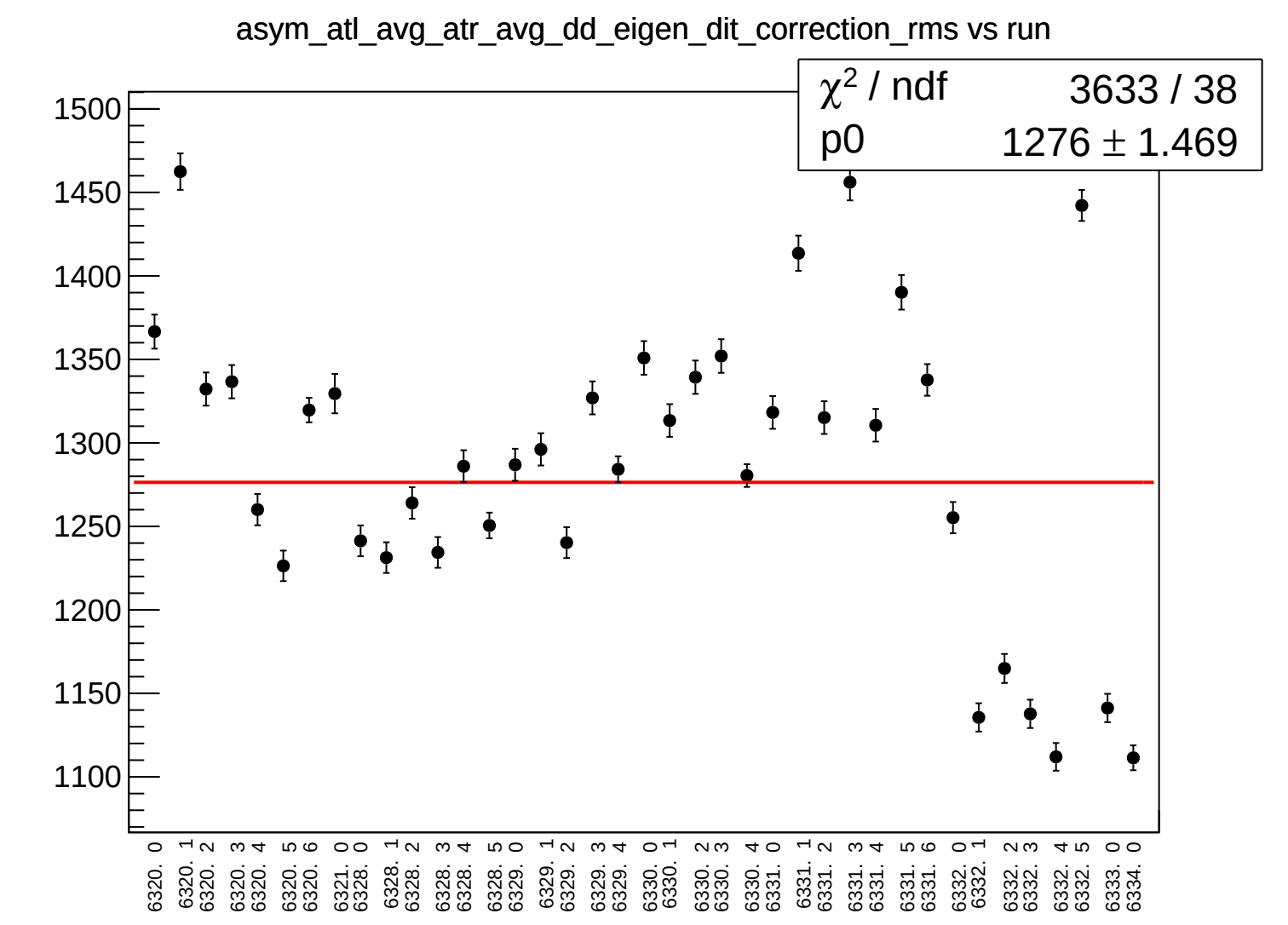

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 22.31 / 38
p0 −4859 ± 2382
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

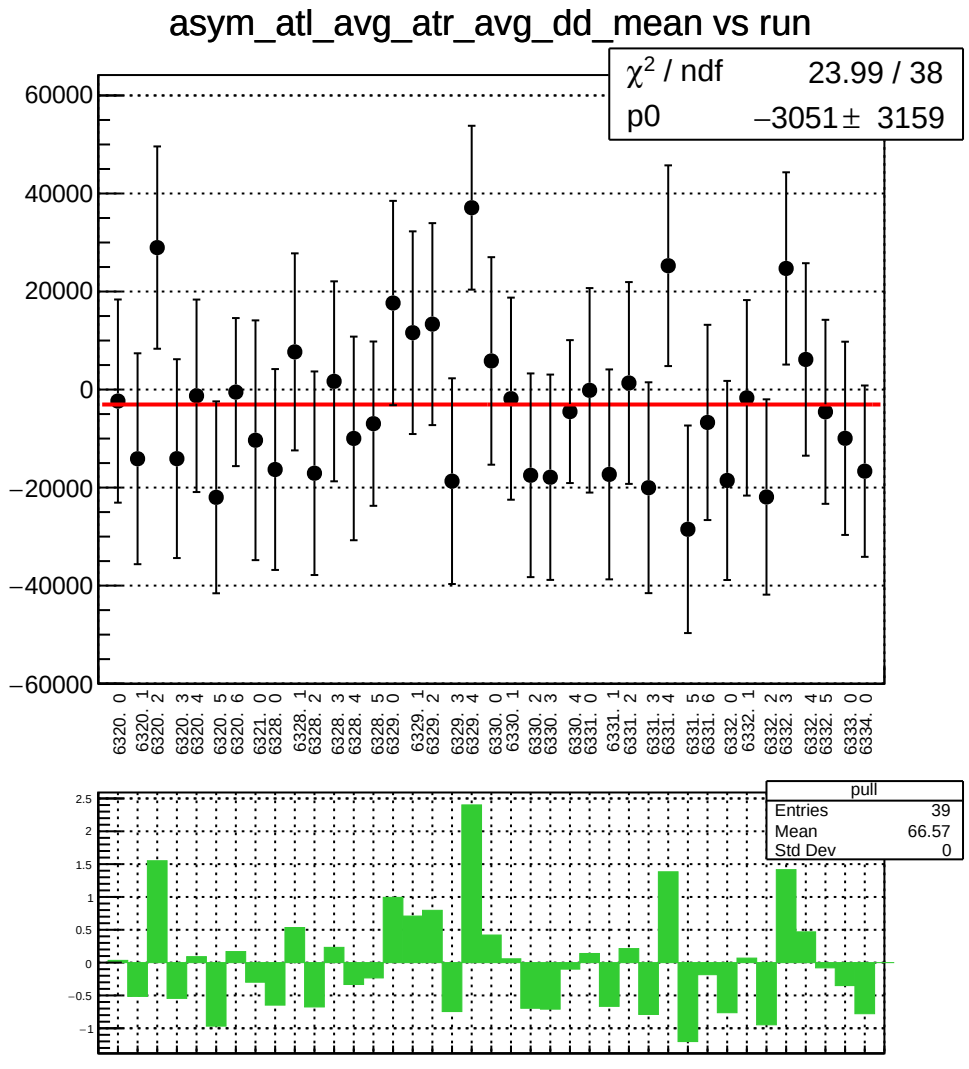

pull1D
Entries 39
Mean −0.01181
Std Dev 0.7563
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

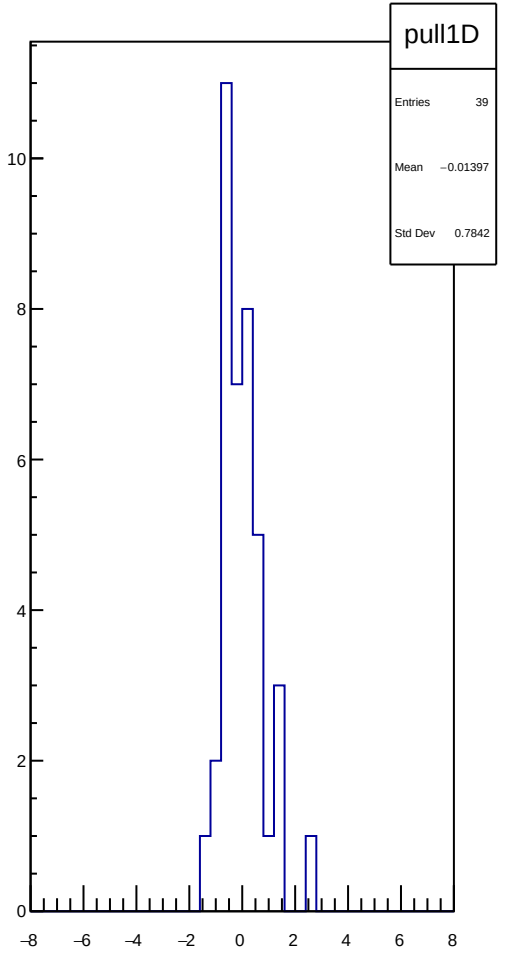

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 53.93 / 38
p0 1467 ± 1.685
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

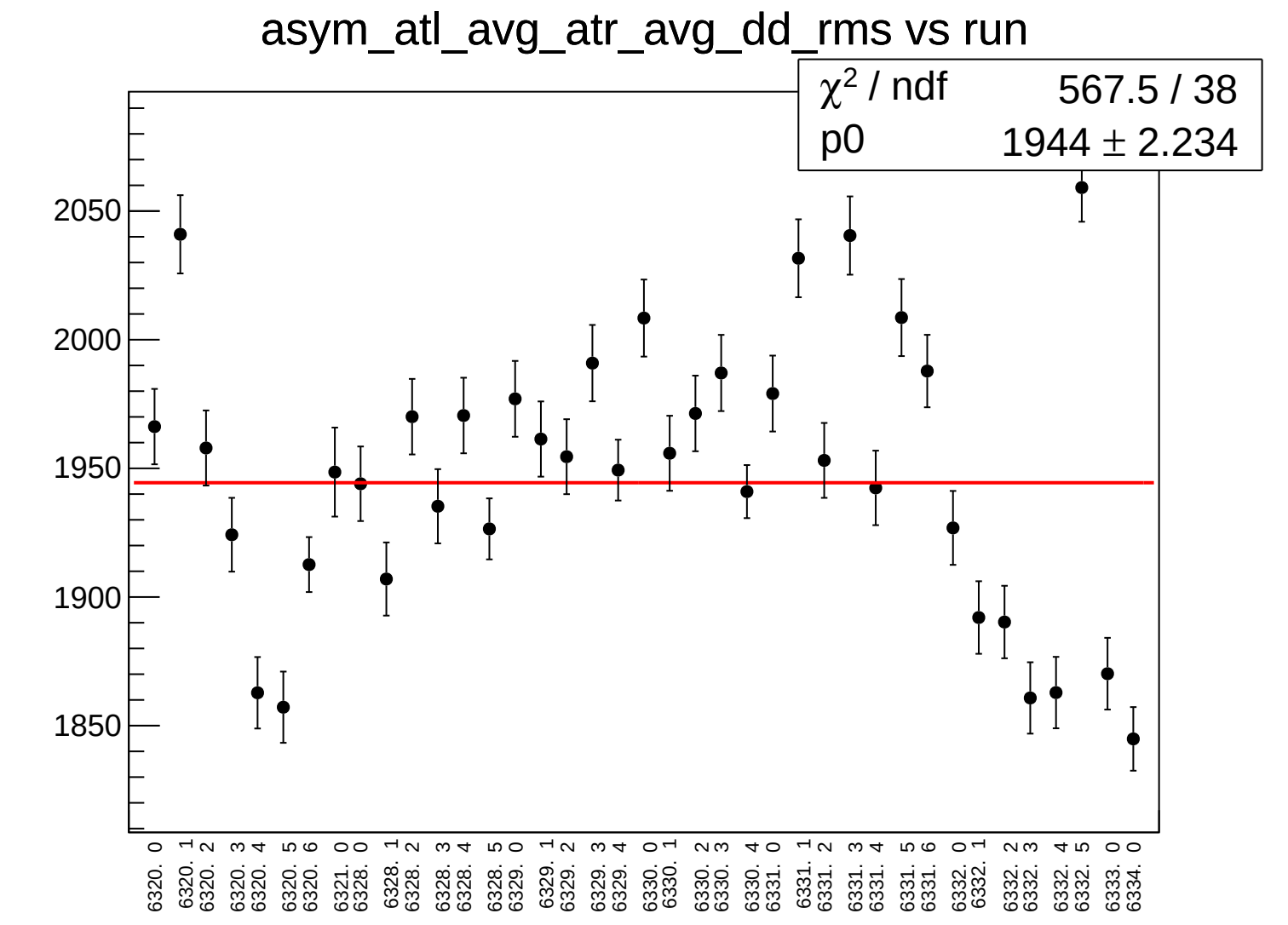

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 24.88 / 38
p0 −1756 ± 2078
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

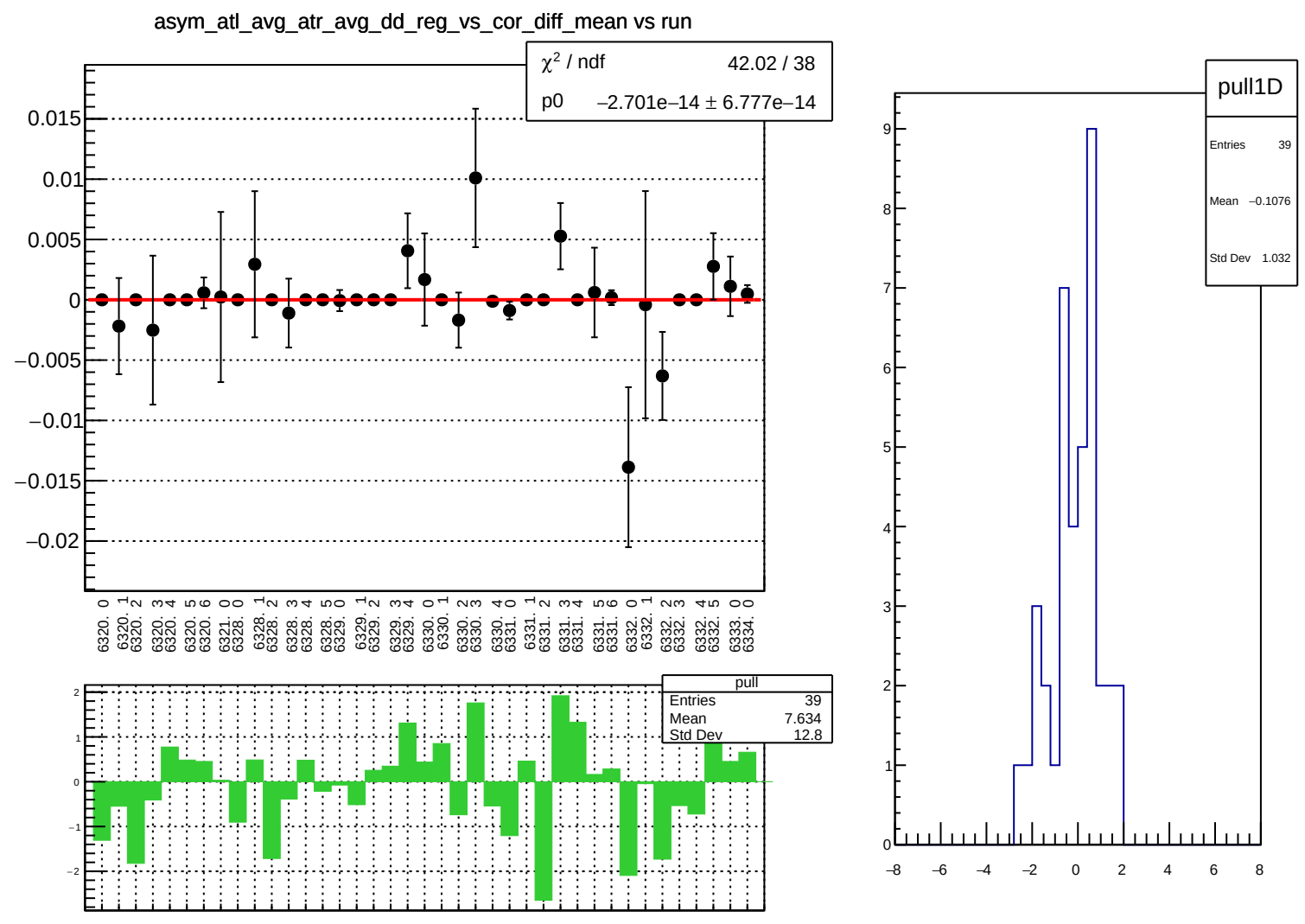

pull1D
Entries 39
Mean 0.006212
Std Dev 0.7986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

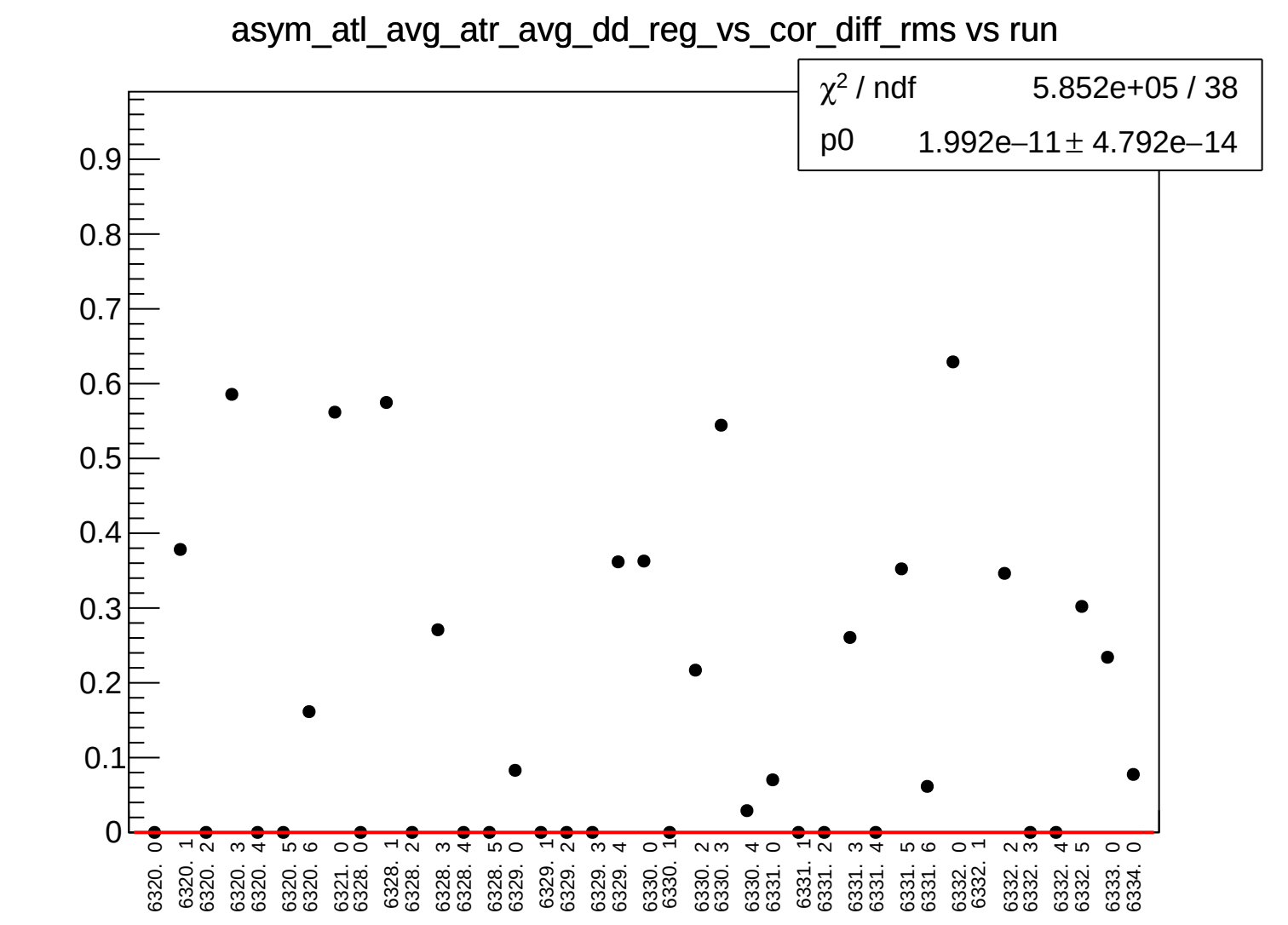

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3633 / 38
p0 1276 ± 1.469
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

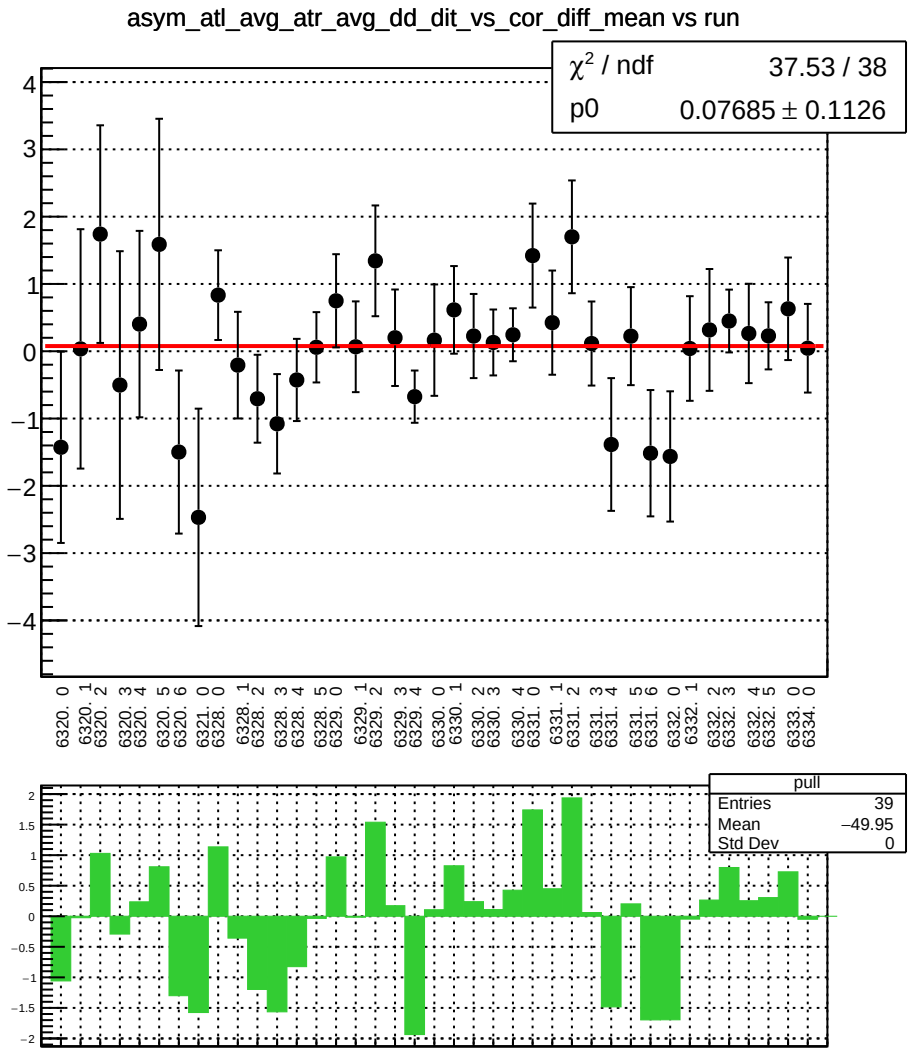

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 23.99 / 38
p0 −3051 ± 3159
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 66.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

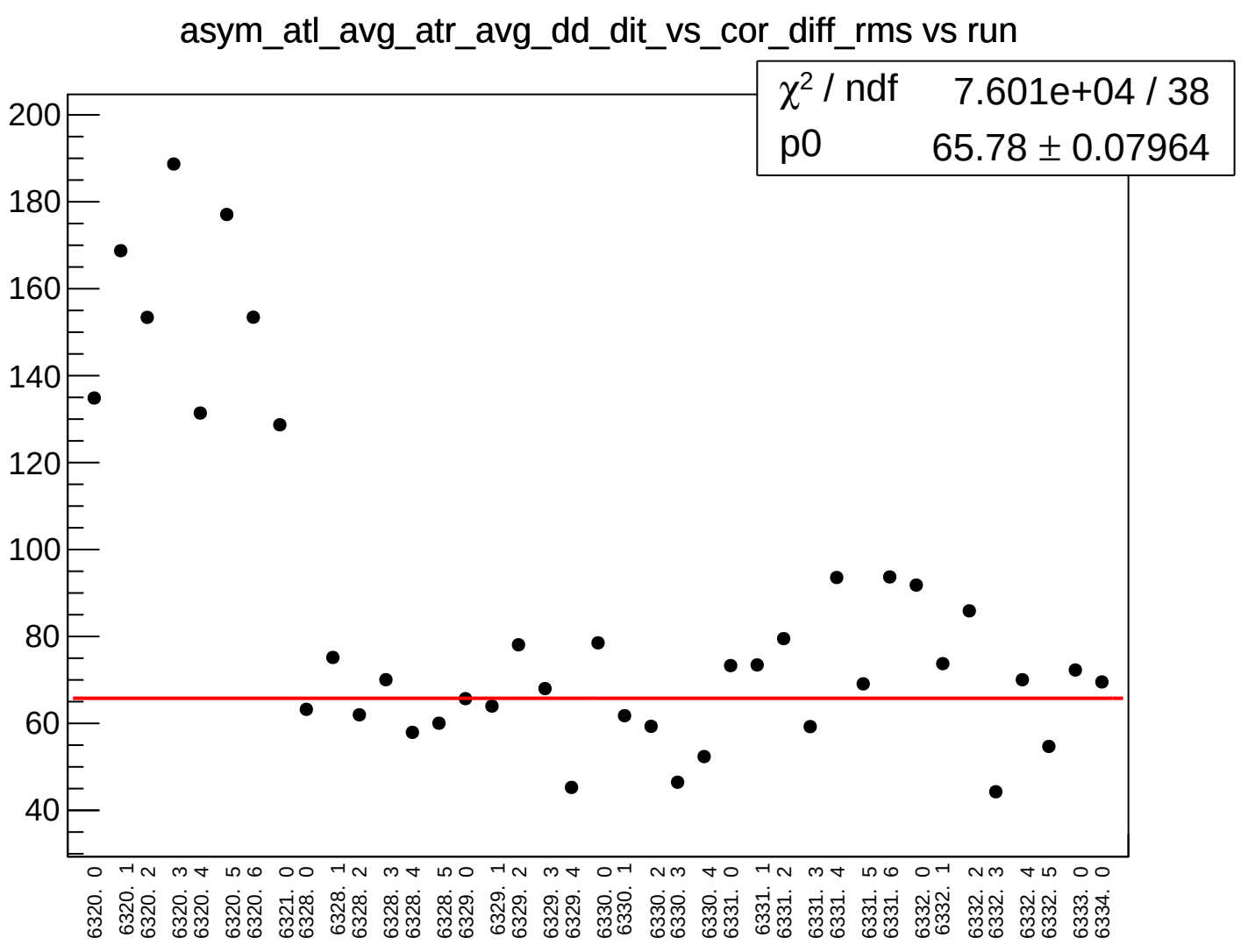

pull1D
Entries 39
Mean −0.01397
Std Dev 0.7842
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

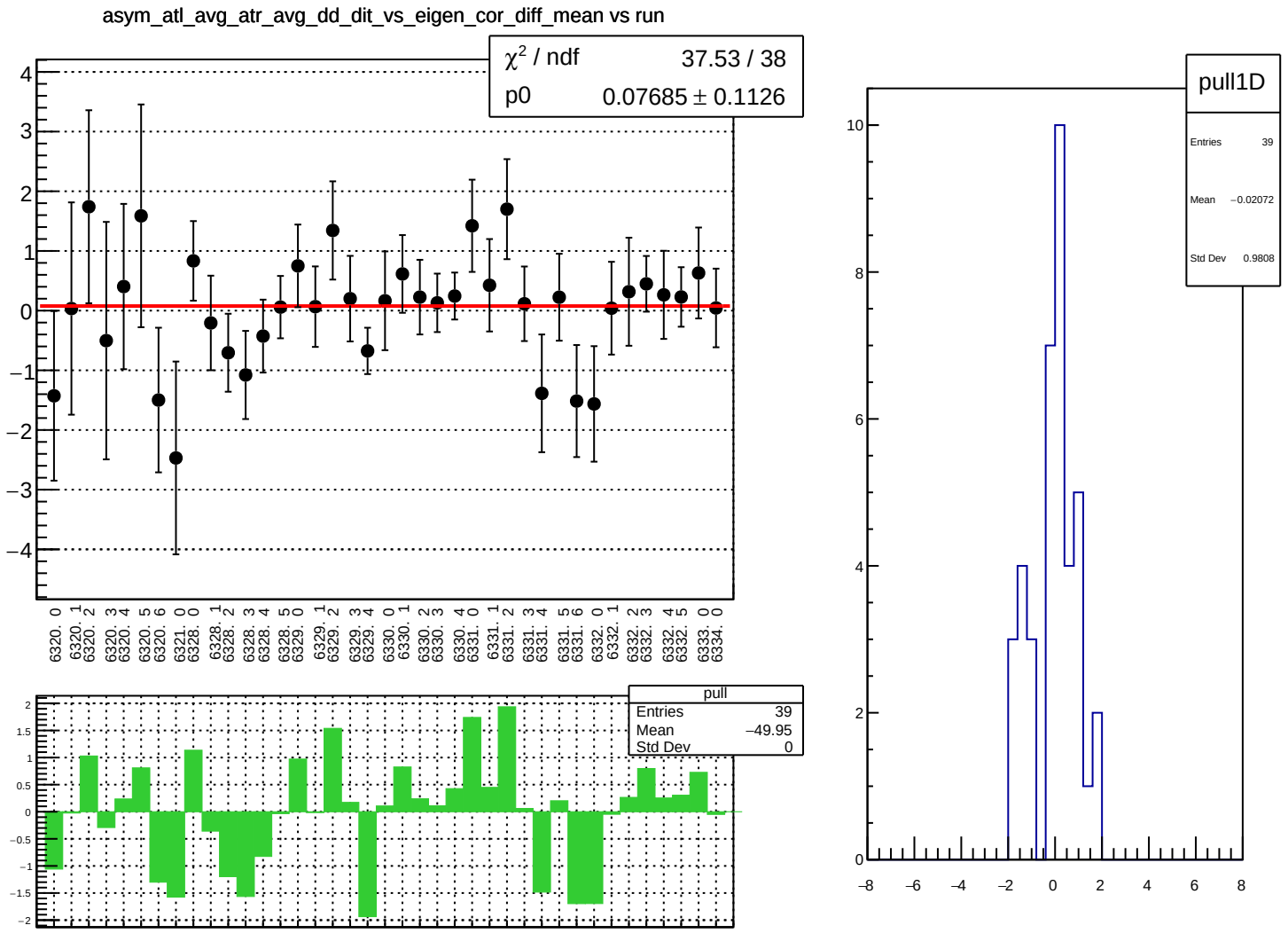

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 567.5 / 38
p0 1944 ± 2.234
2050
2000
1950
1900
1850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

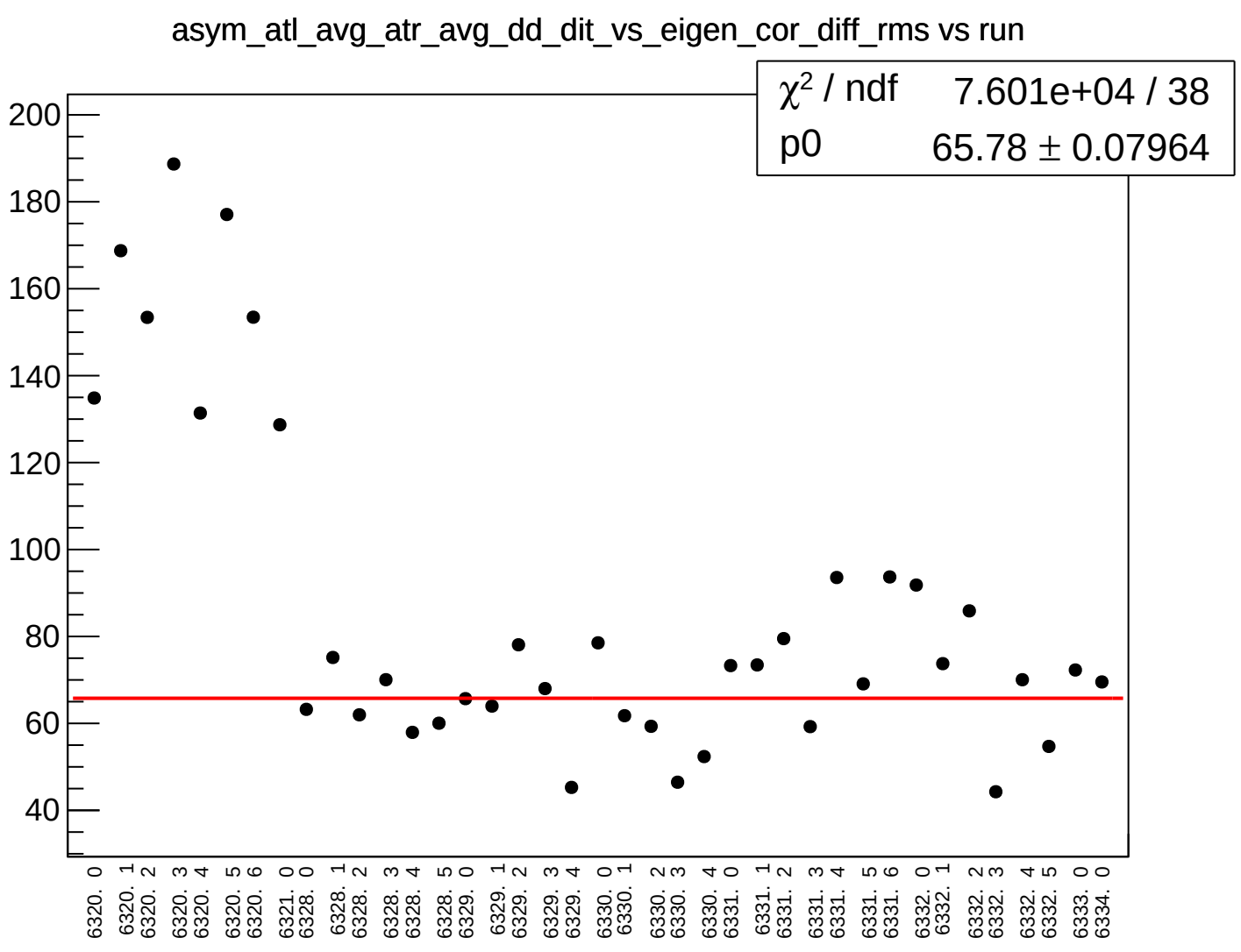

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42.02 / 38
p0 −2.701e−14 ± 6.777e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.634
Std Dev 12.8
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1076
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

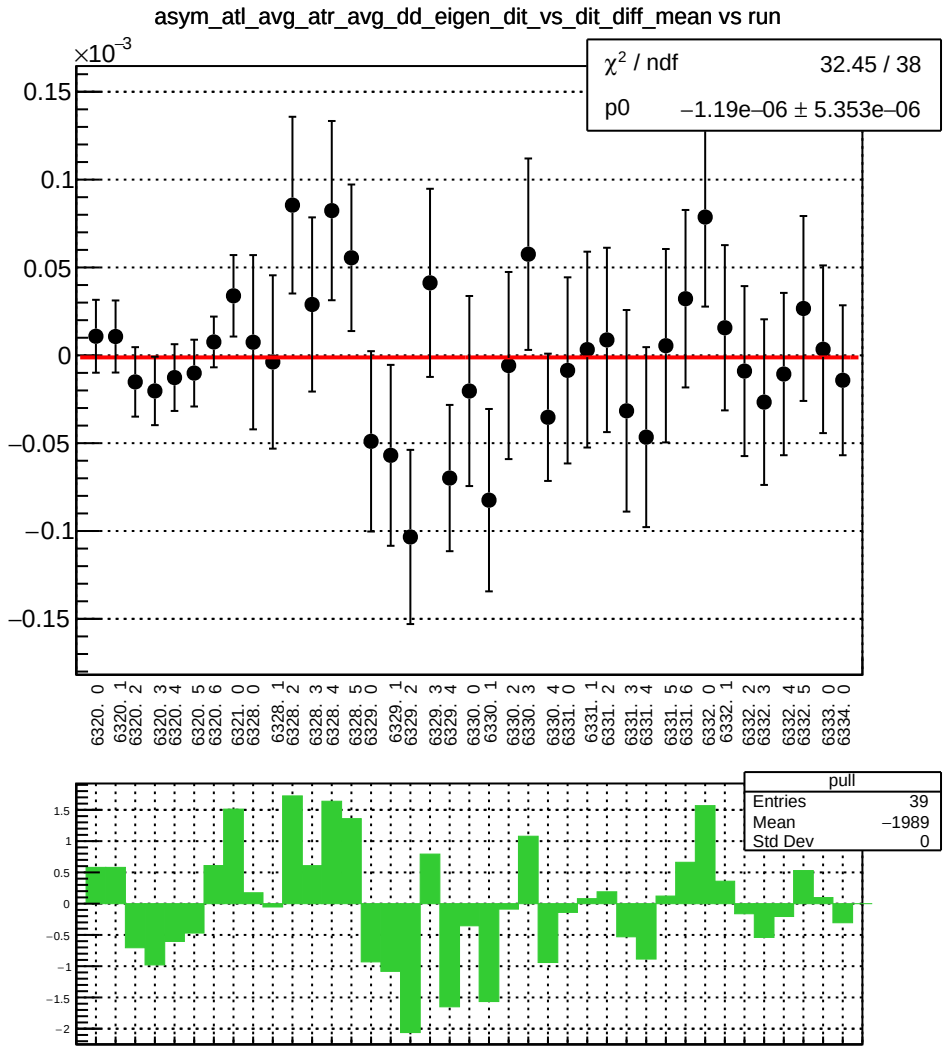

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.852e+05 / 38
p0 1.992e−11 ± 4.792e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

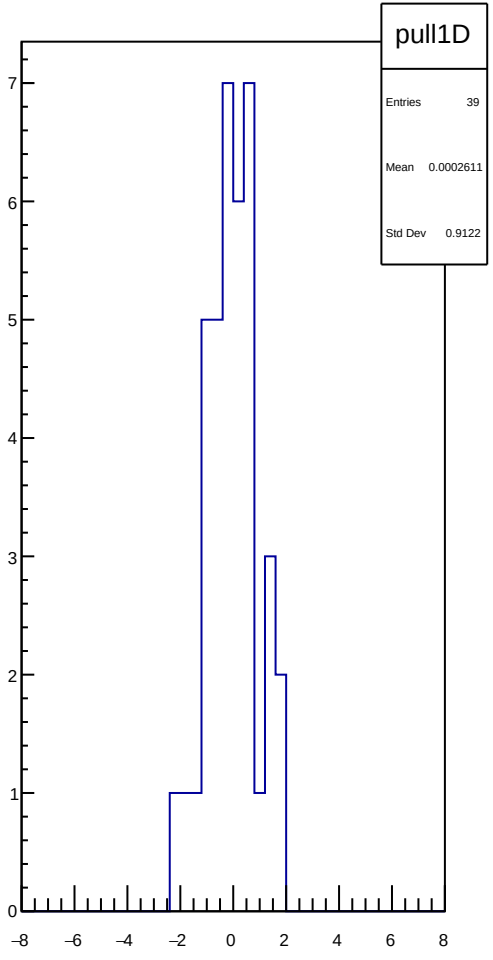

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07685 ± 0.1126
pull
Entries 39
Mean −49.95
Std Dev 0
pull1D
Entries 39
Mean −0.02072
Std Dev 0.9808

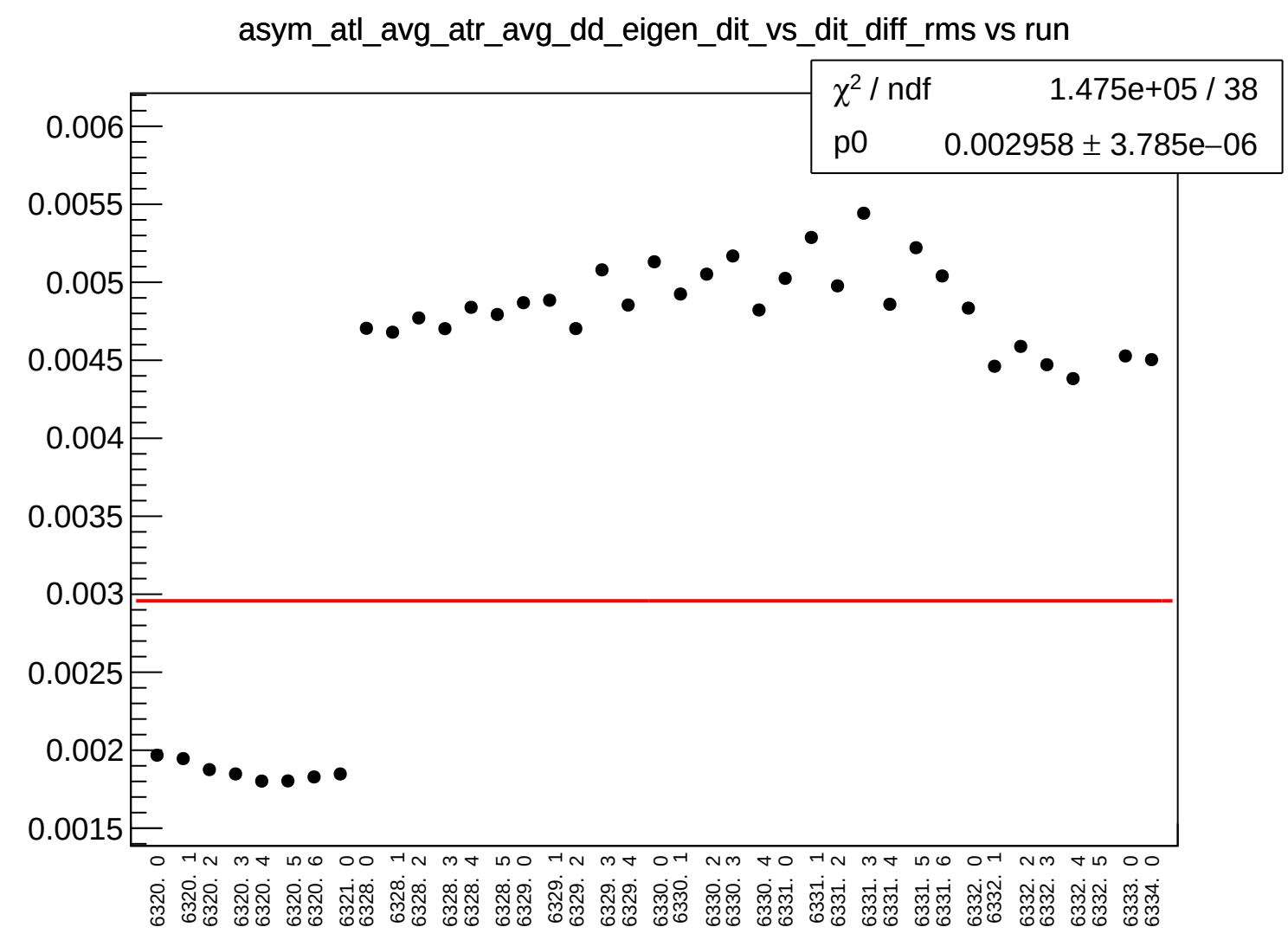

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

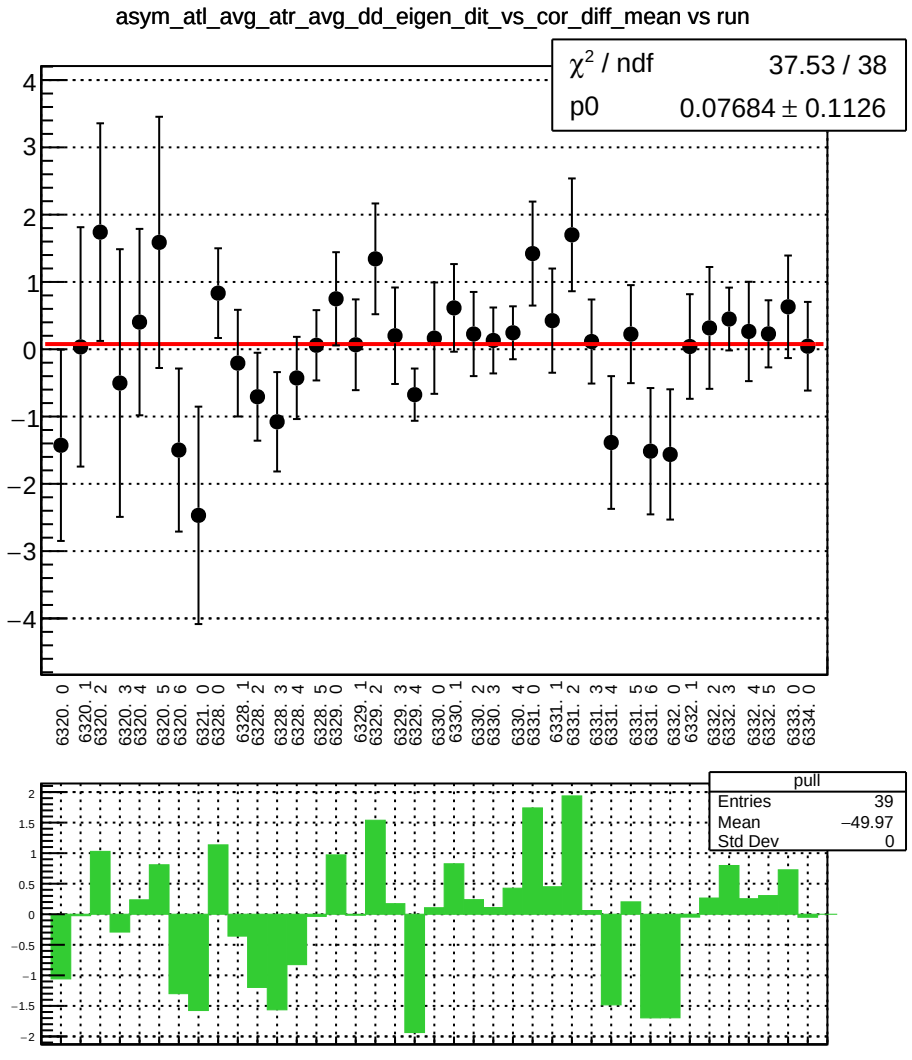

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07685 ± 0.1126
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.95
Std Dev 0
pull1D
Entries 39
Mean −0.02072
Std Dev 0.9808

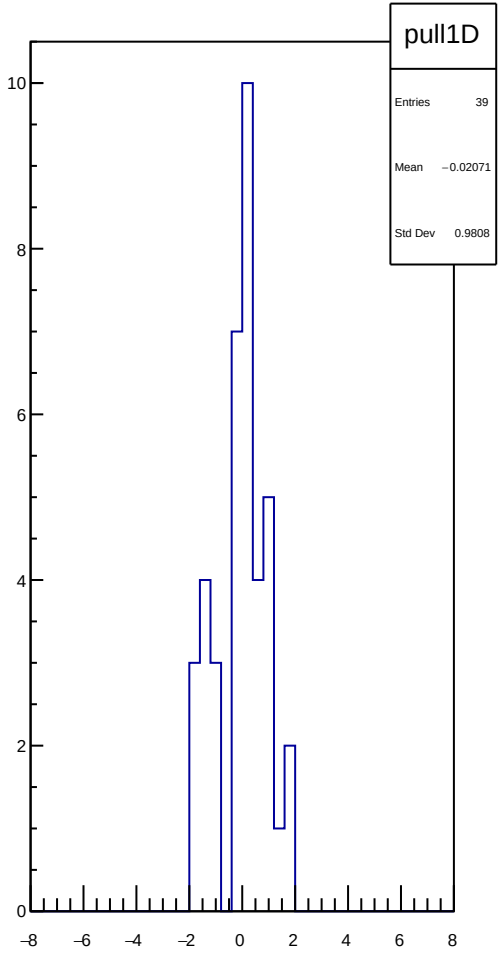

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

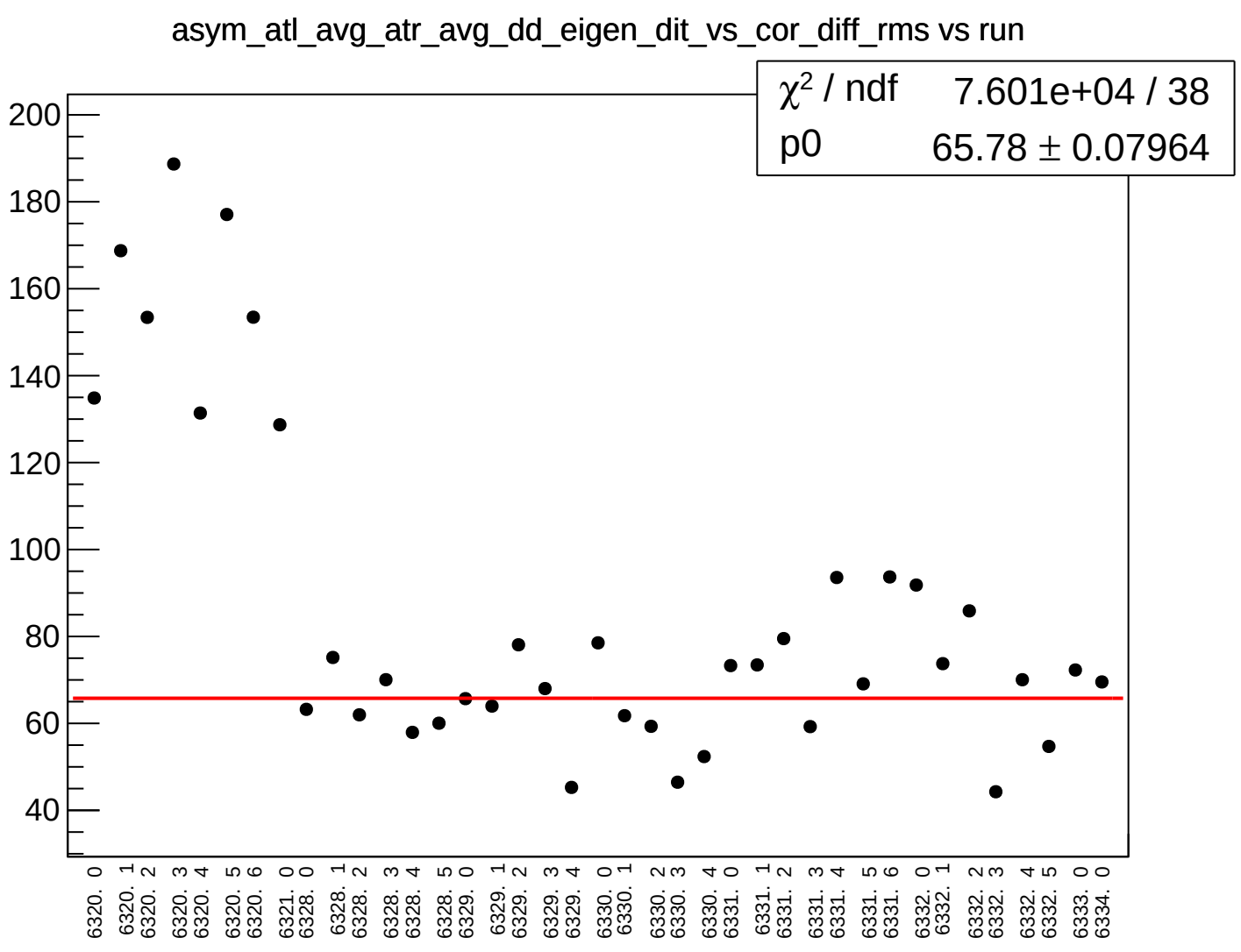

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.45 / 38
p0 −1.19e−06 ± 5.353e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1989
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

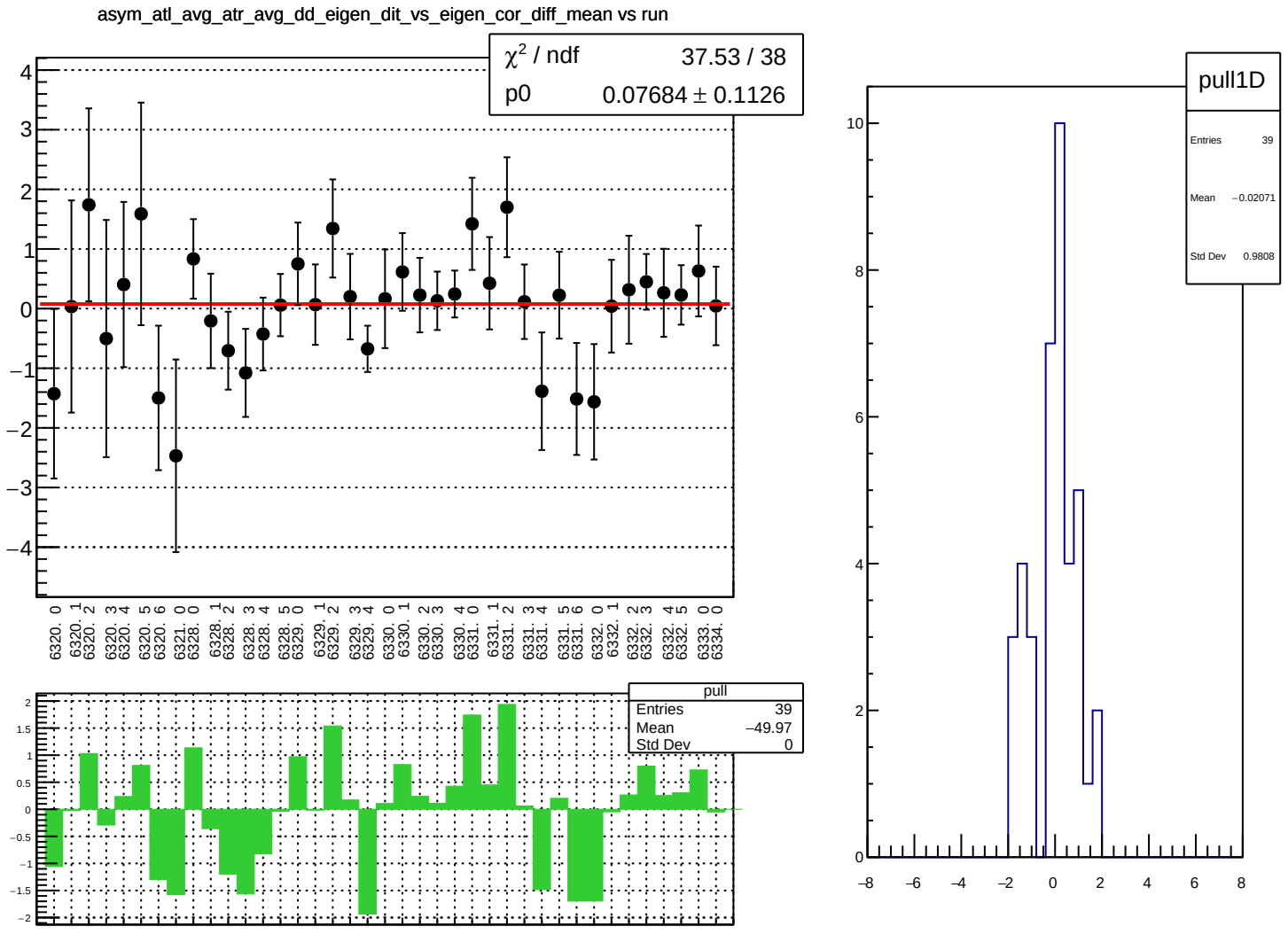

pull1D
Entries 39
Mean 0.0002611
Std Dev 0.9122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

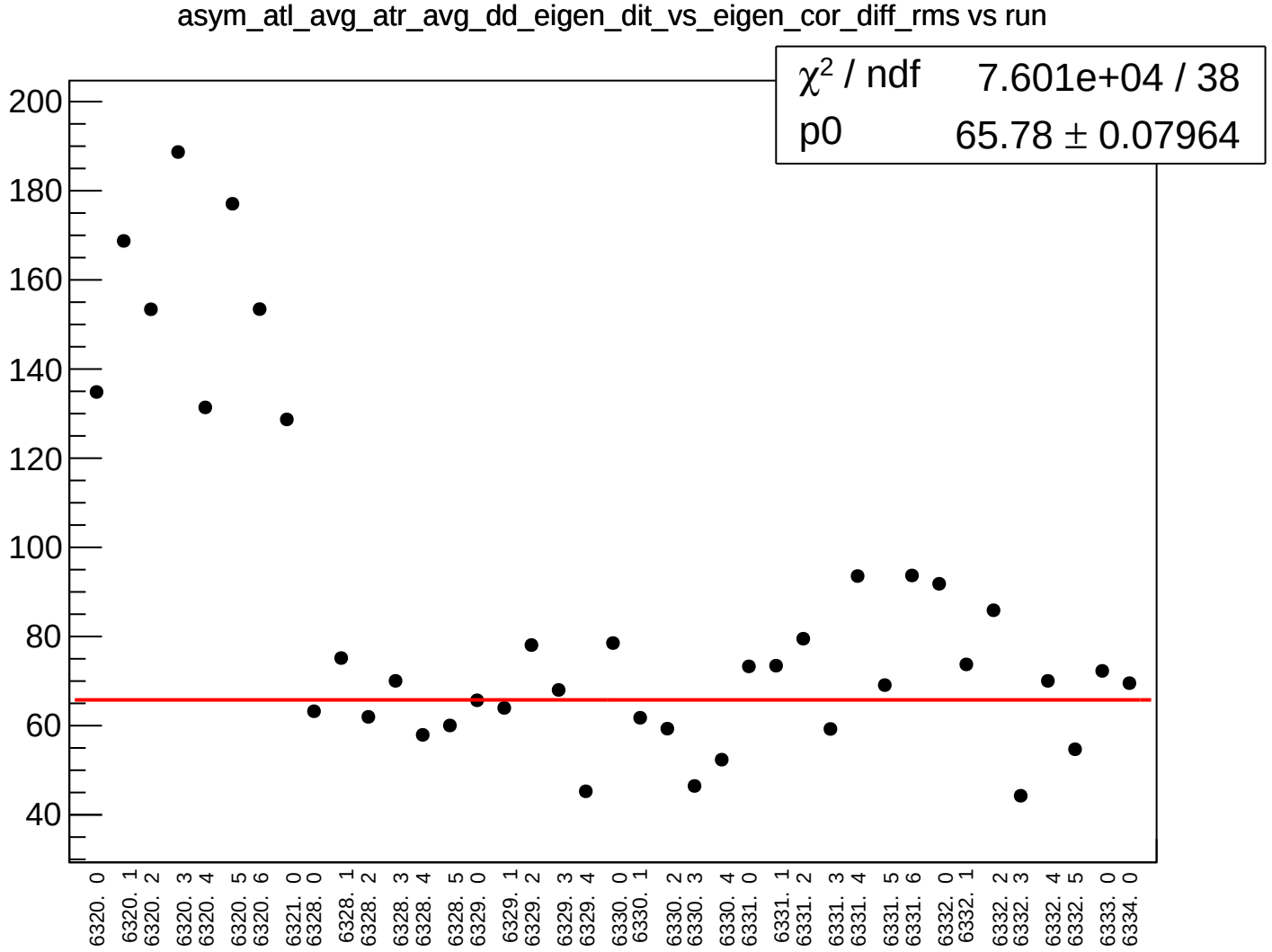

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.475e+05 / 38
p0 0.002958 ± 3.785e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

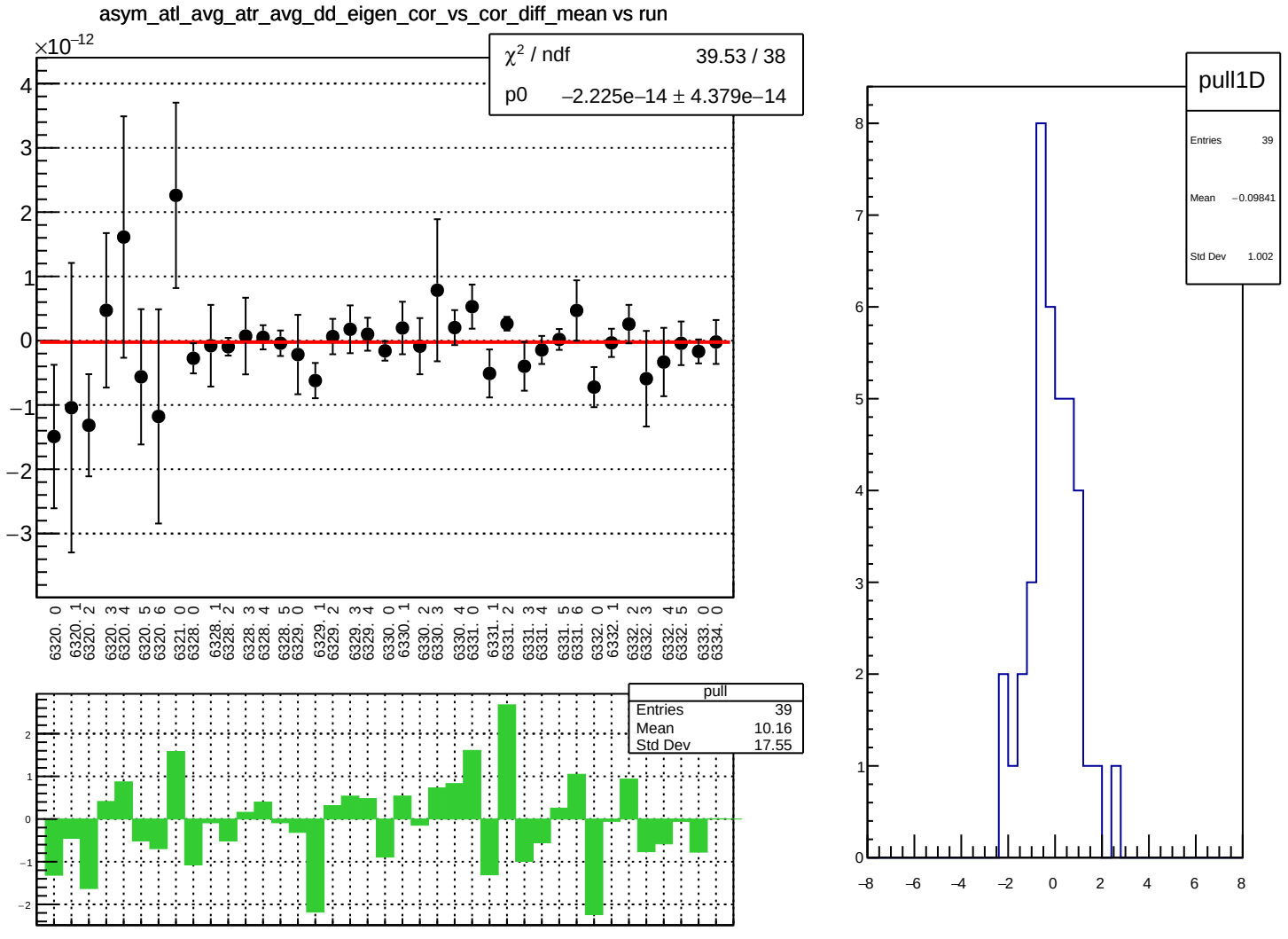

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07684 ± 0.1126
pull
Entries 39
Mean −49.97
Std Dev 0

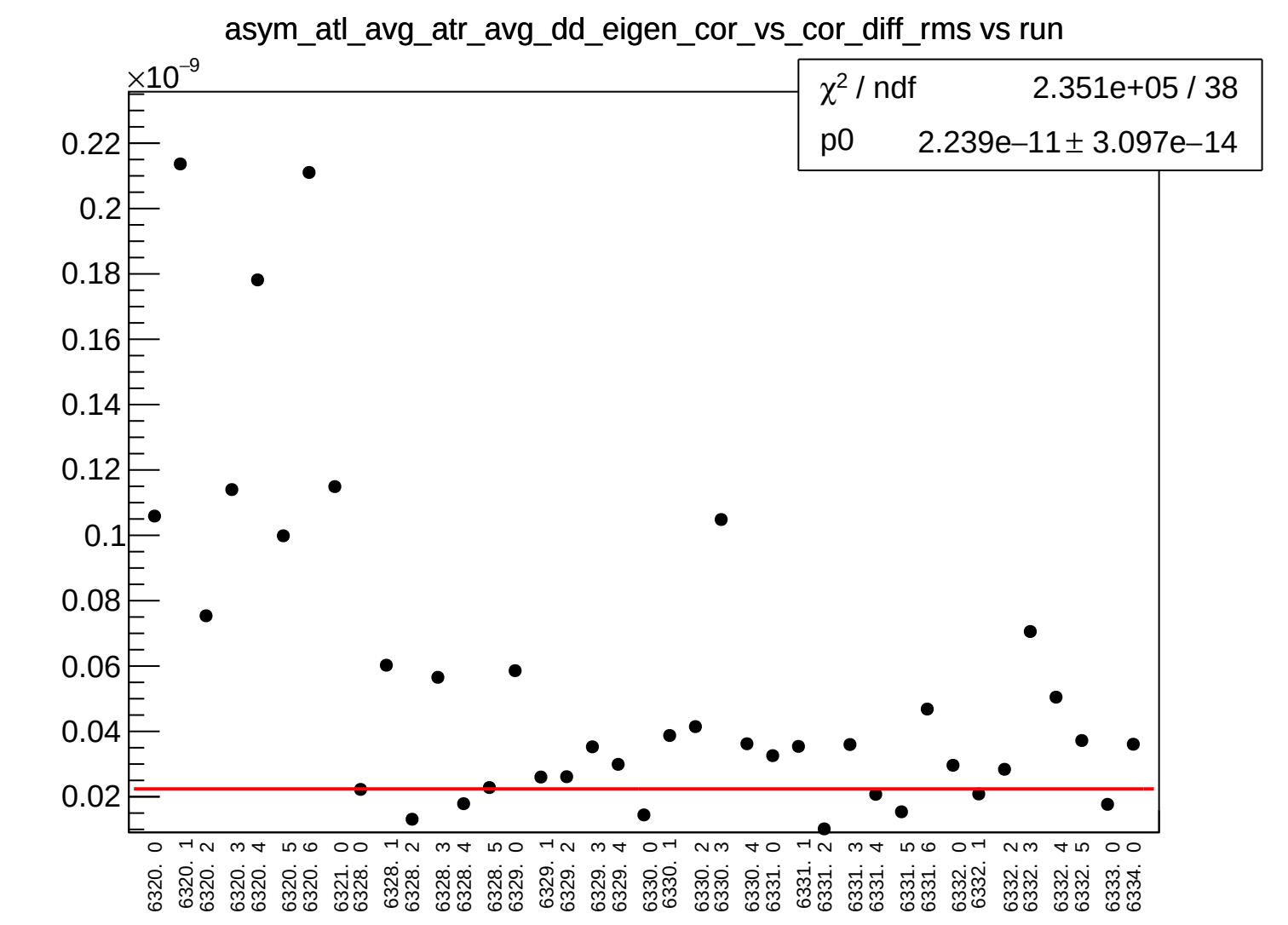

pull1D
Entries 39
Mean −0.02071
Std Dev 0.9808

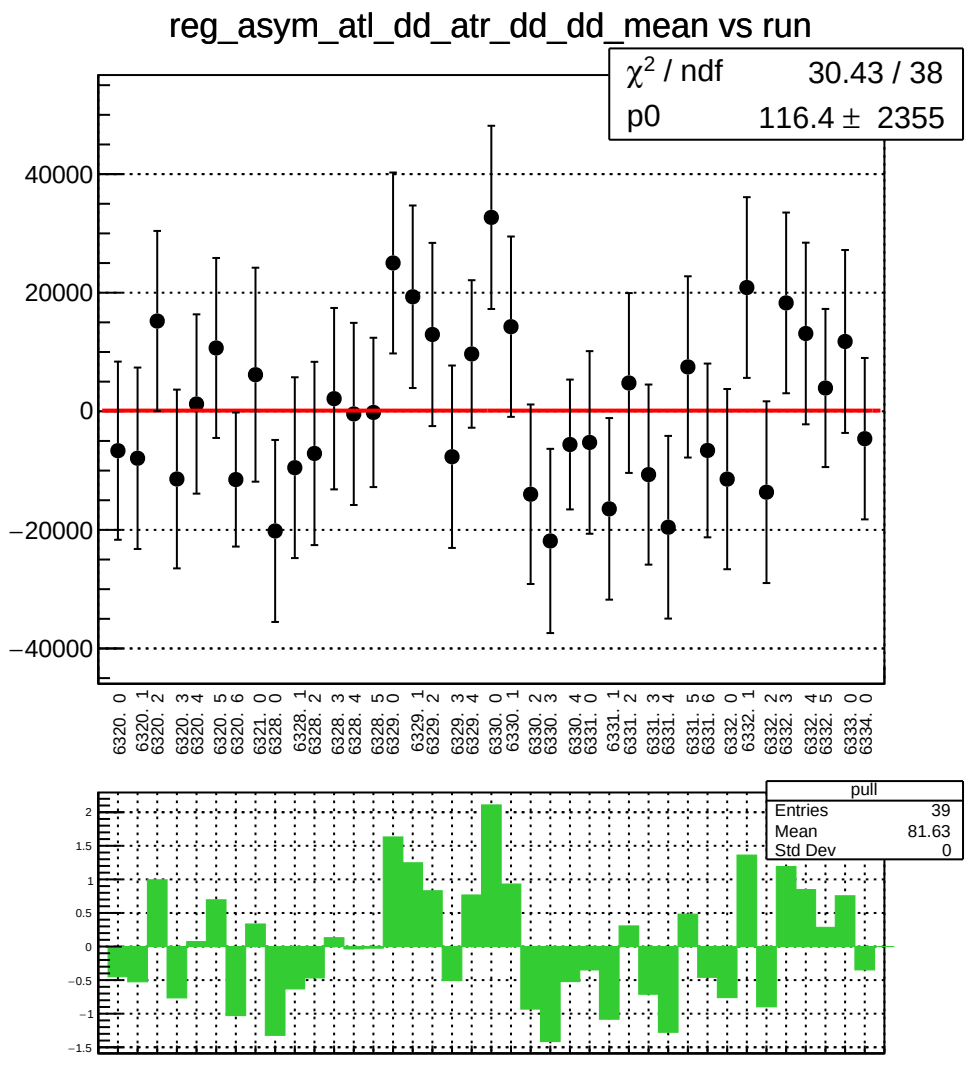

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

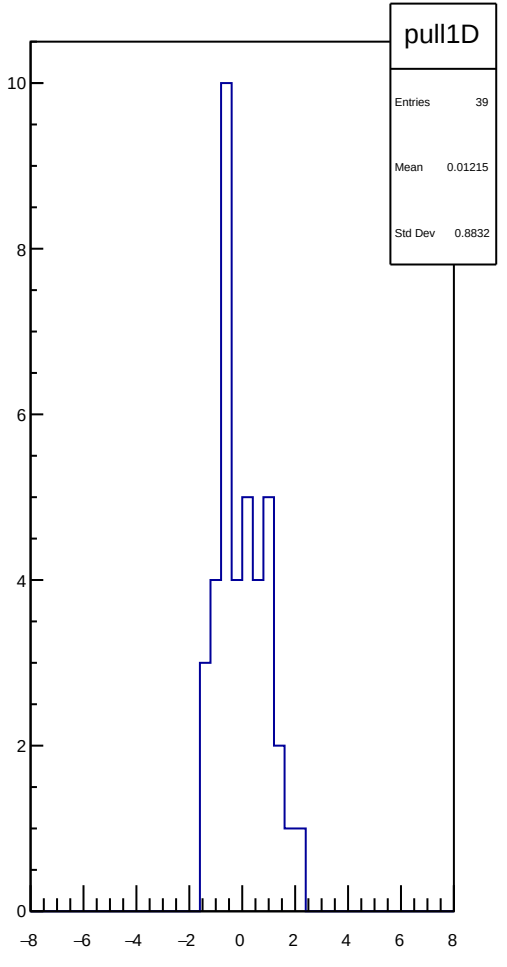

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07684 ± 0.1126
pull
Entries 39
Mean −49.97
Std Dev 0
pull1D
Entries 39
Mean −0.02071
Std Dev 0.9808

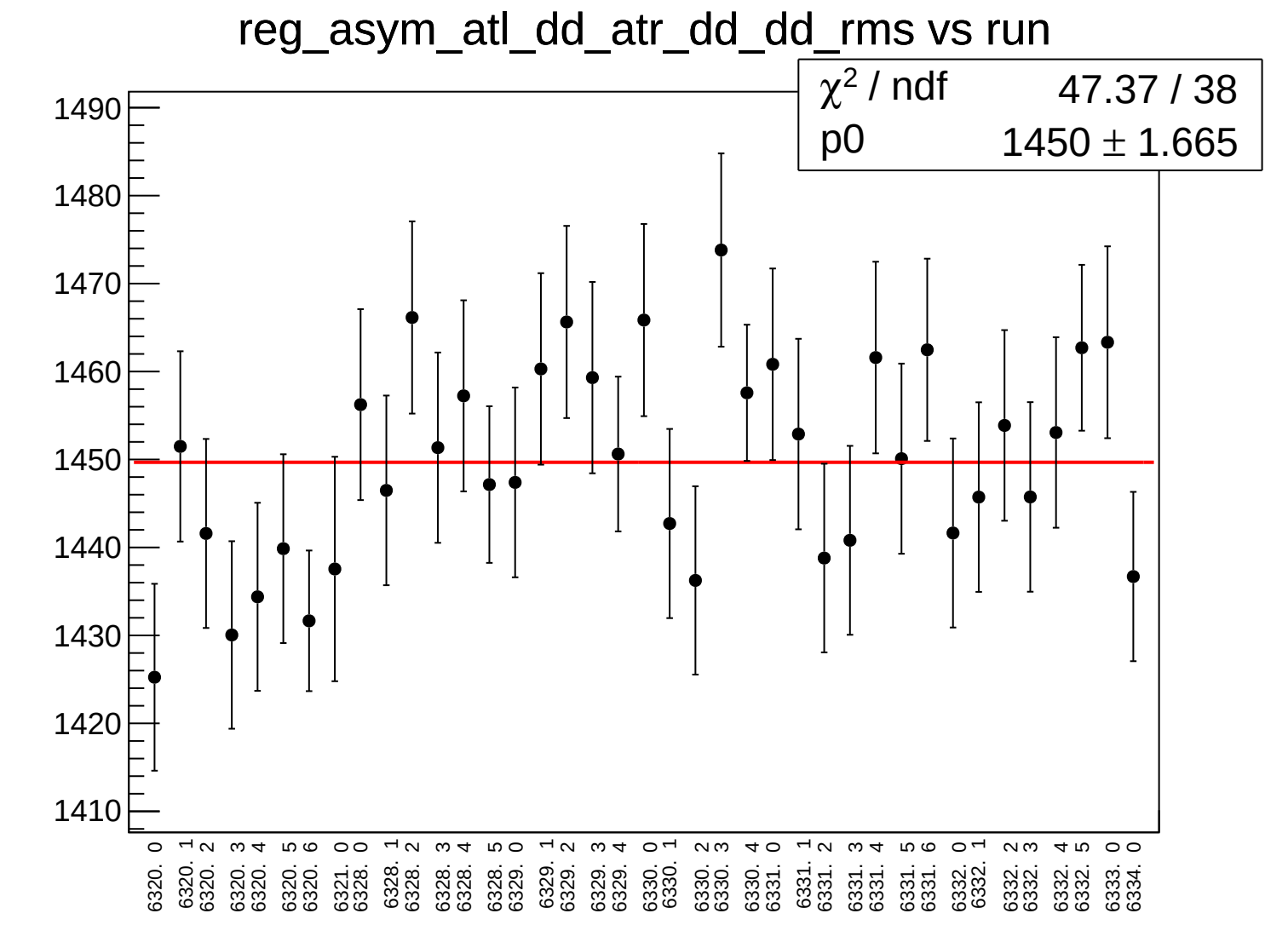

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

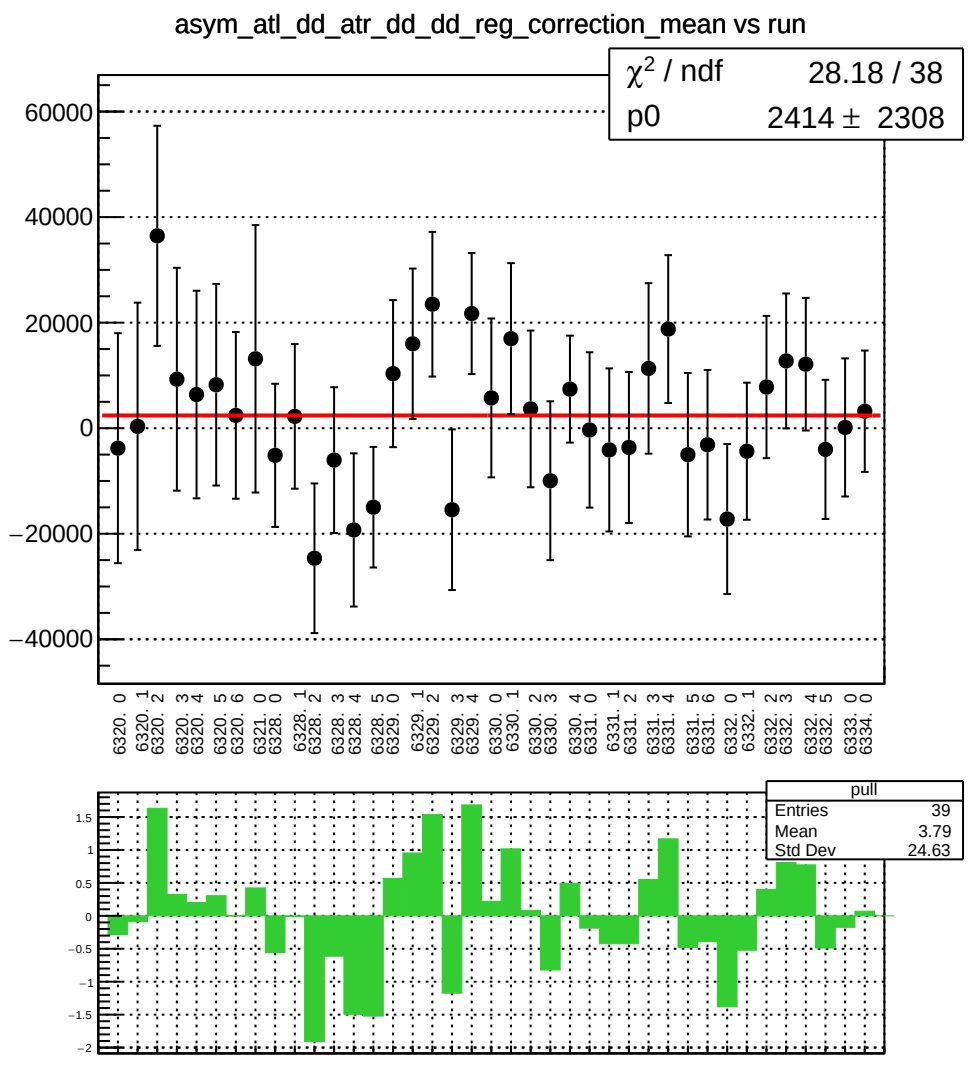

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.53 / 38
p0 −2.225e−14 ± 4.379e−14
4
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.16
Std Dev 17.55
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.09841
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

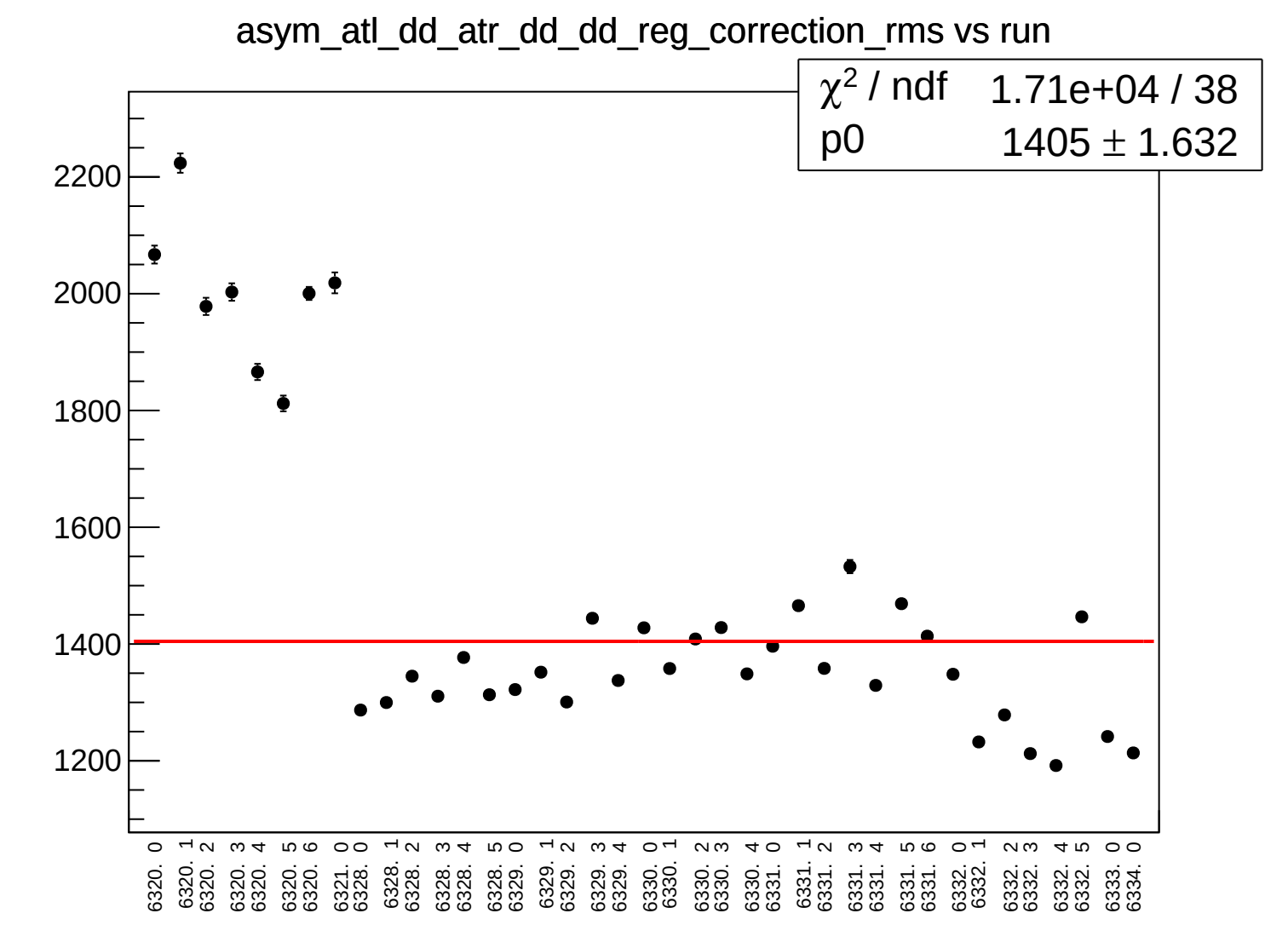

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.351e+05 / 38
p0 2.239e−11 ± 3.097e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

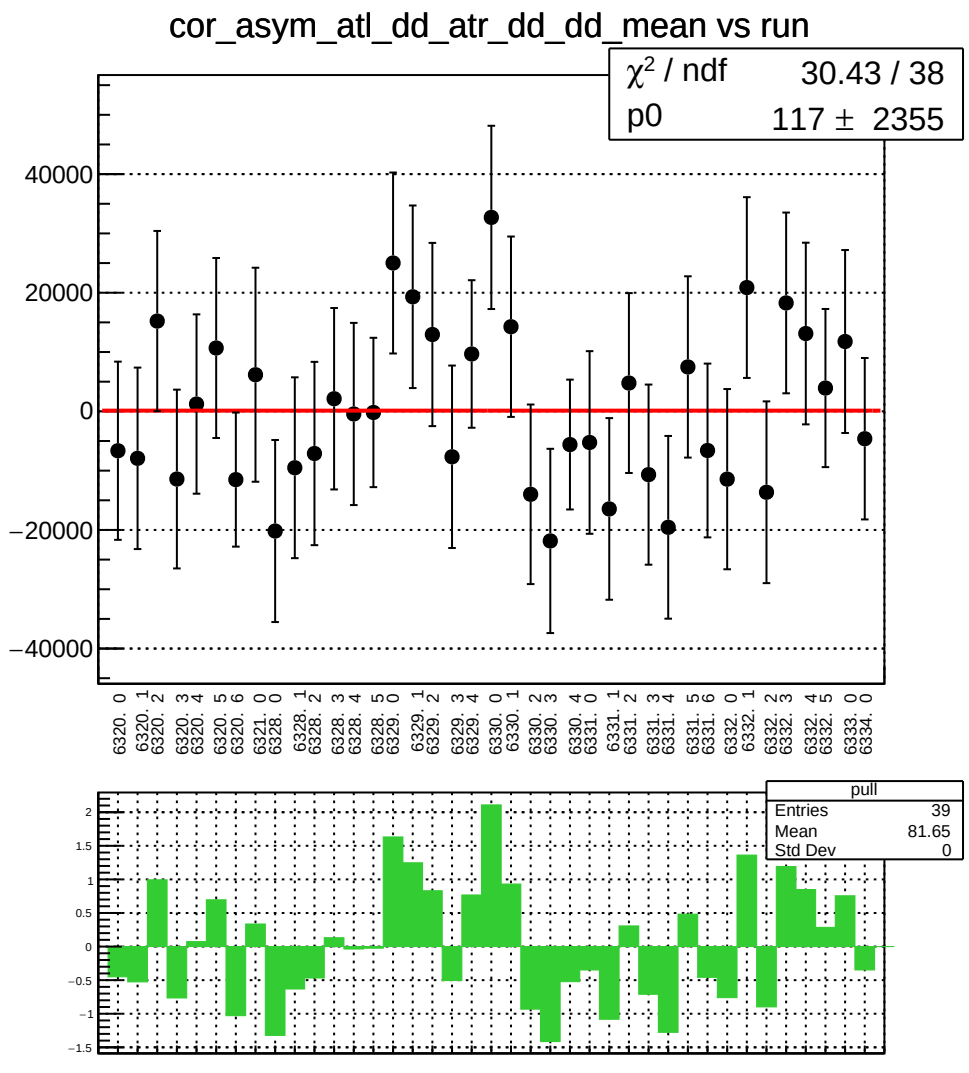

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 30.43 / 38
p0 116.4 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

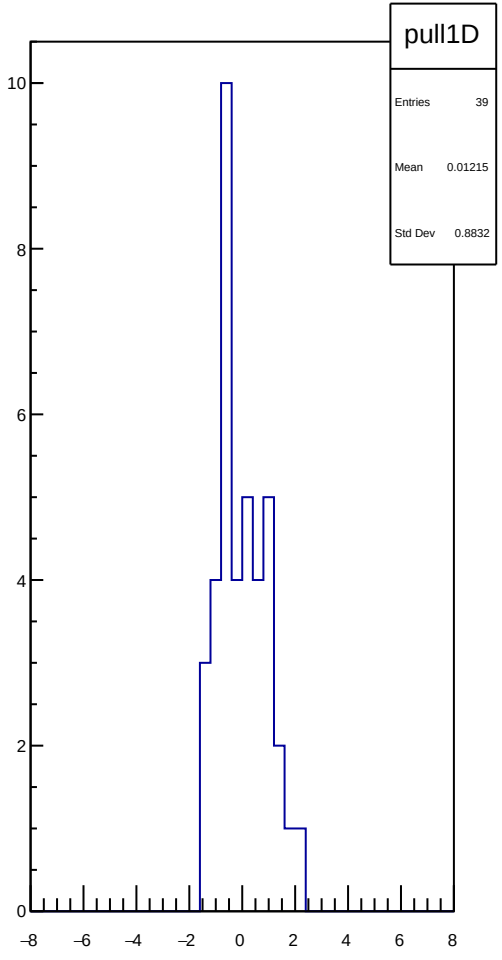

pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

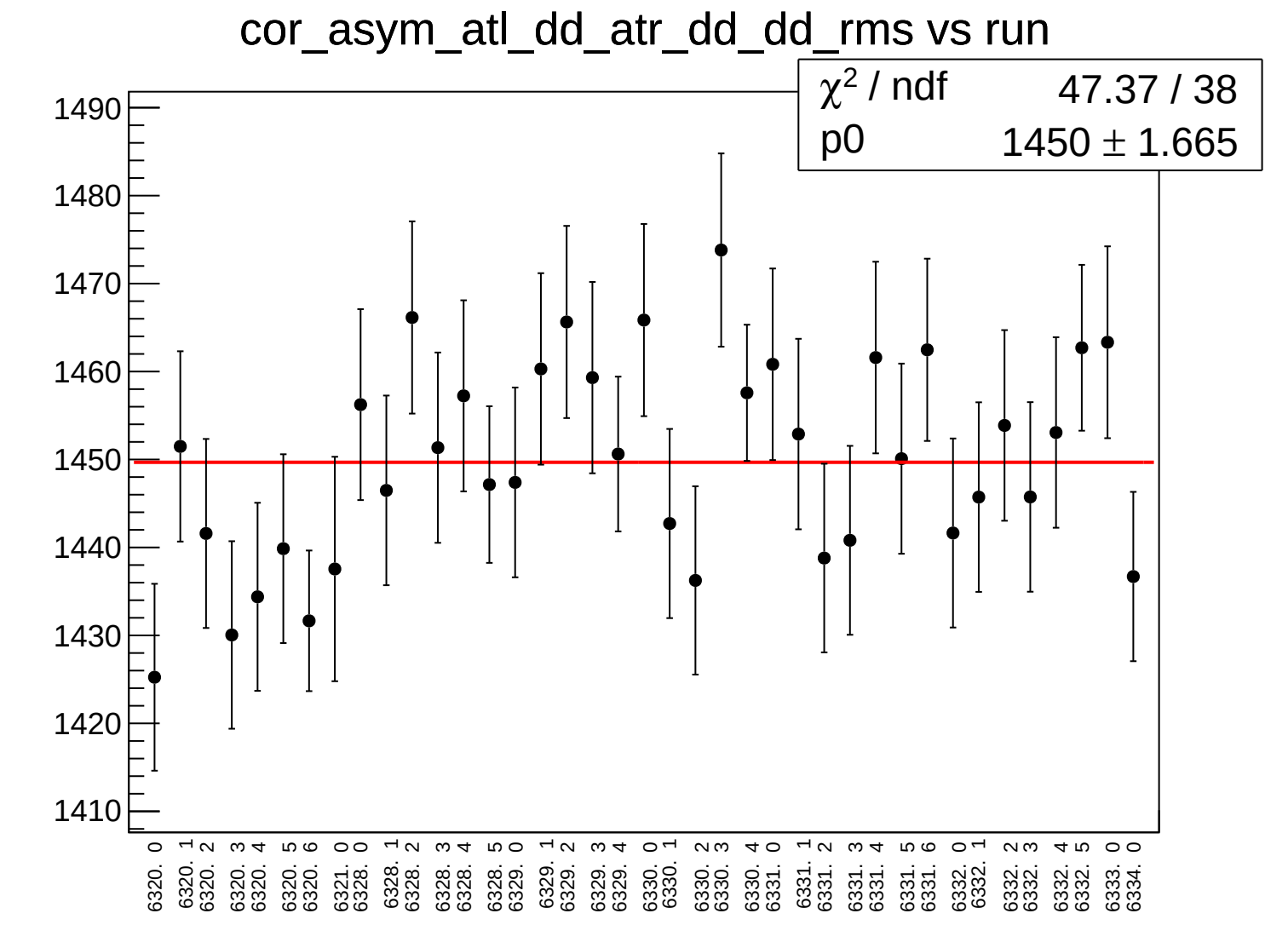

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

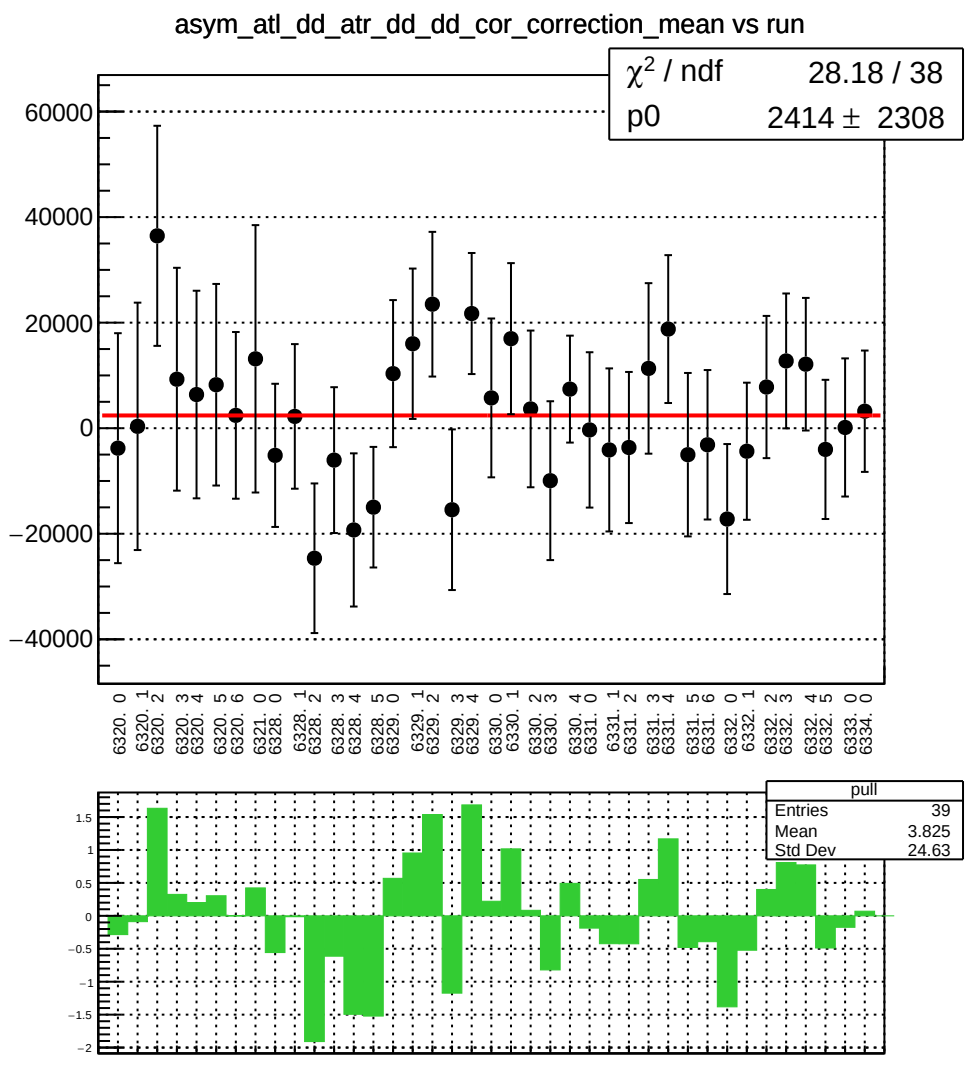

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.79
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.007055
Std Dev 0.85
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

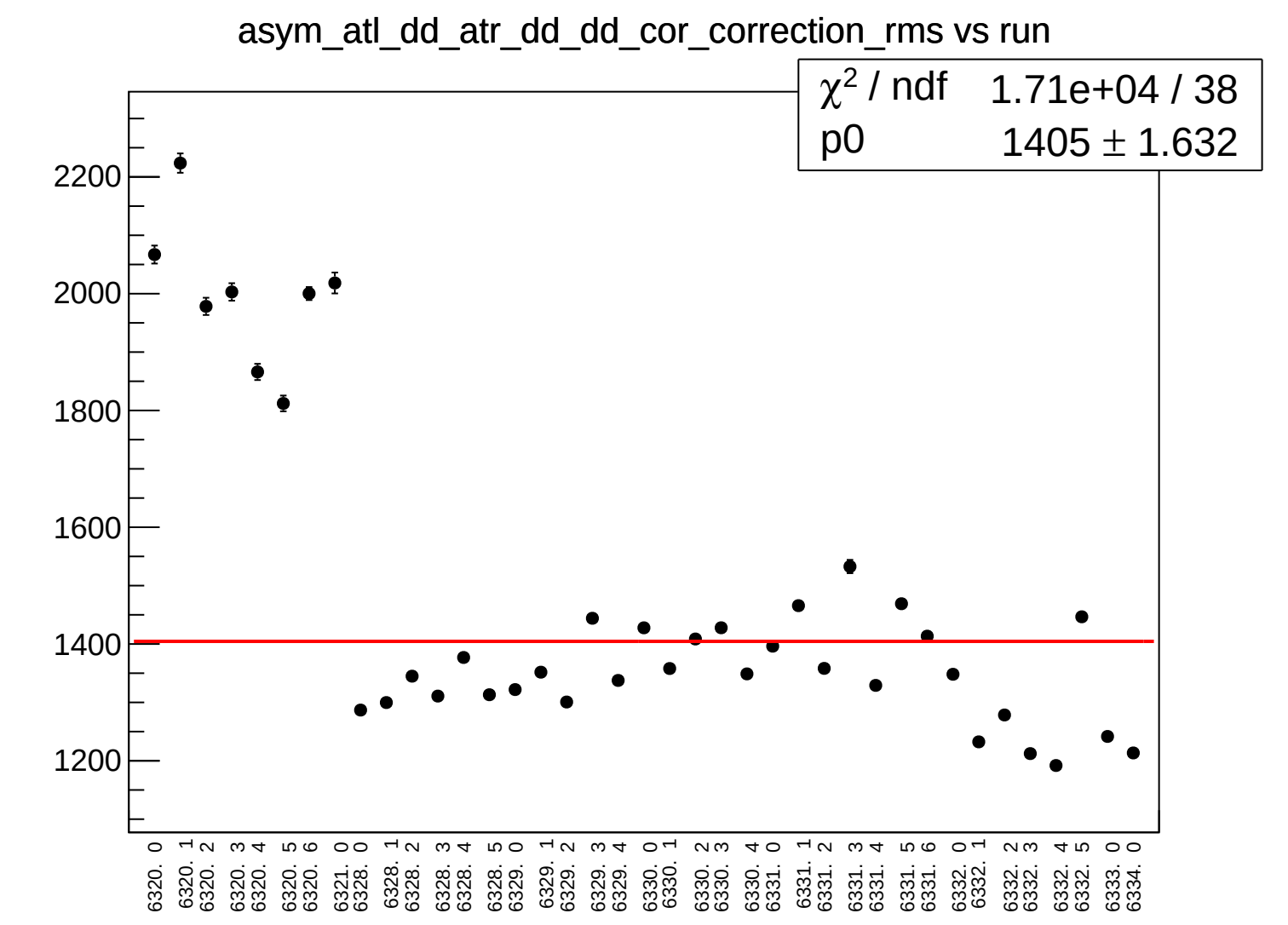

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

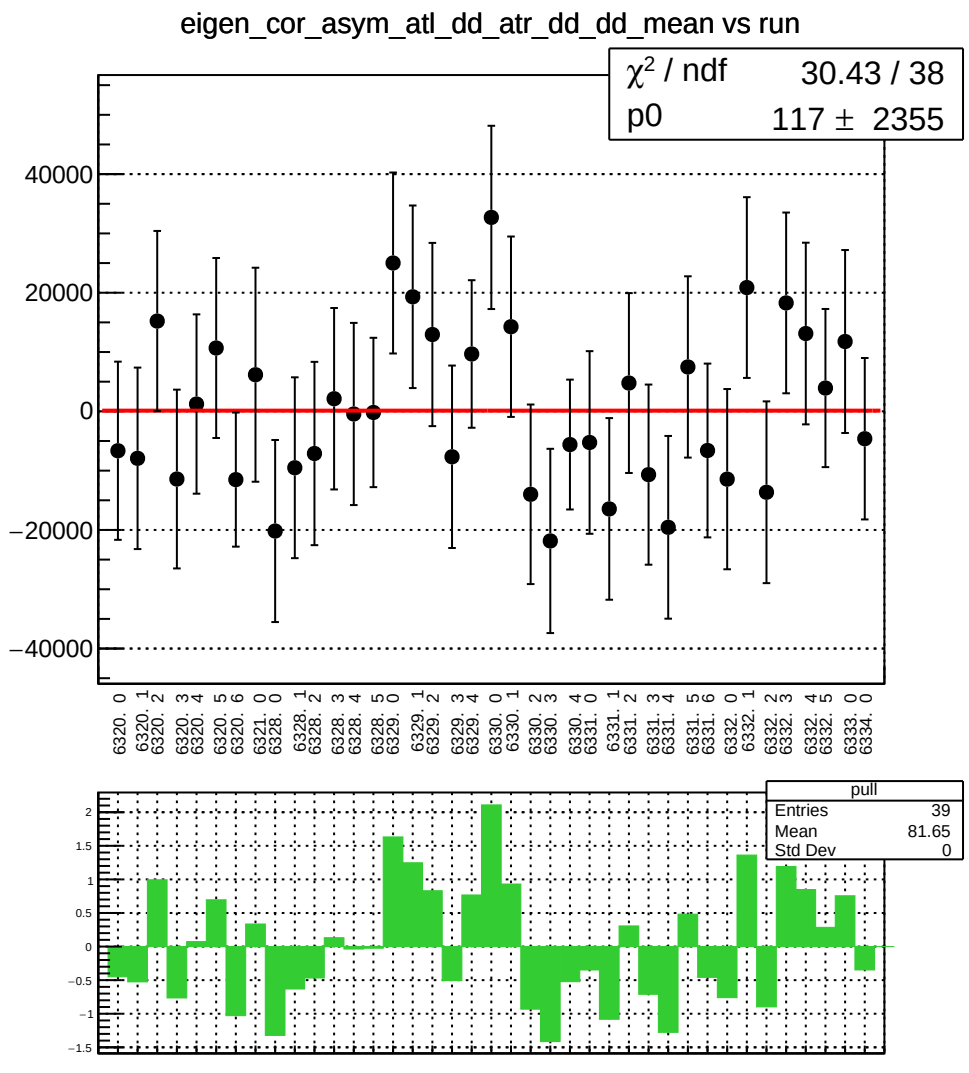

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 30.43 / 38
p0 117 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.825
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.00706
Std Dev 0.85
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 30.43 / 38
p0 117 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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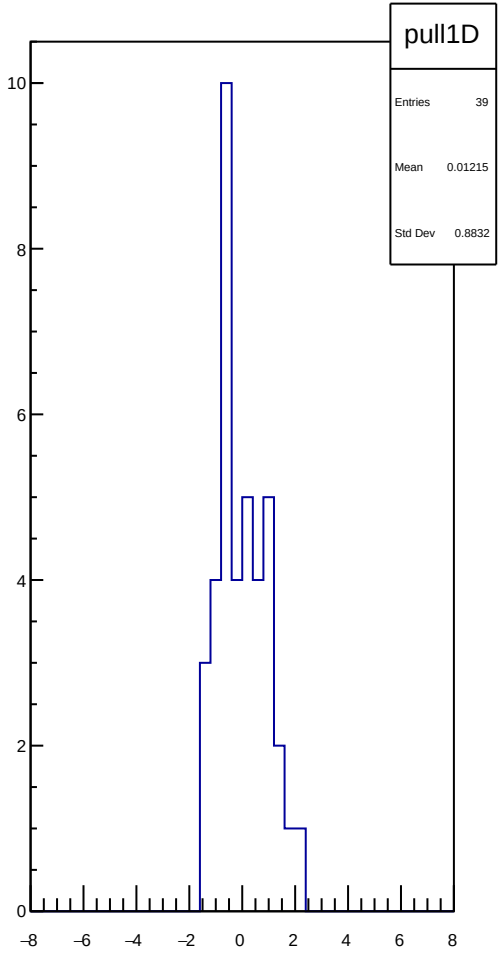
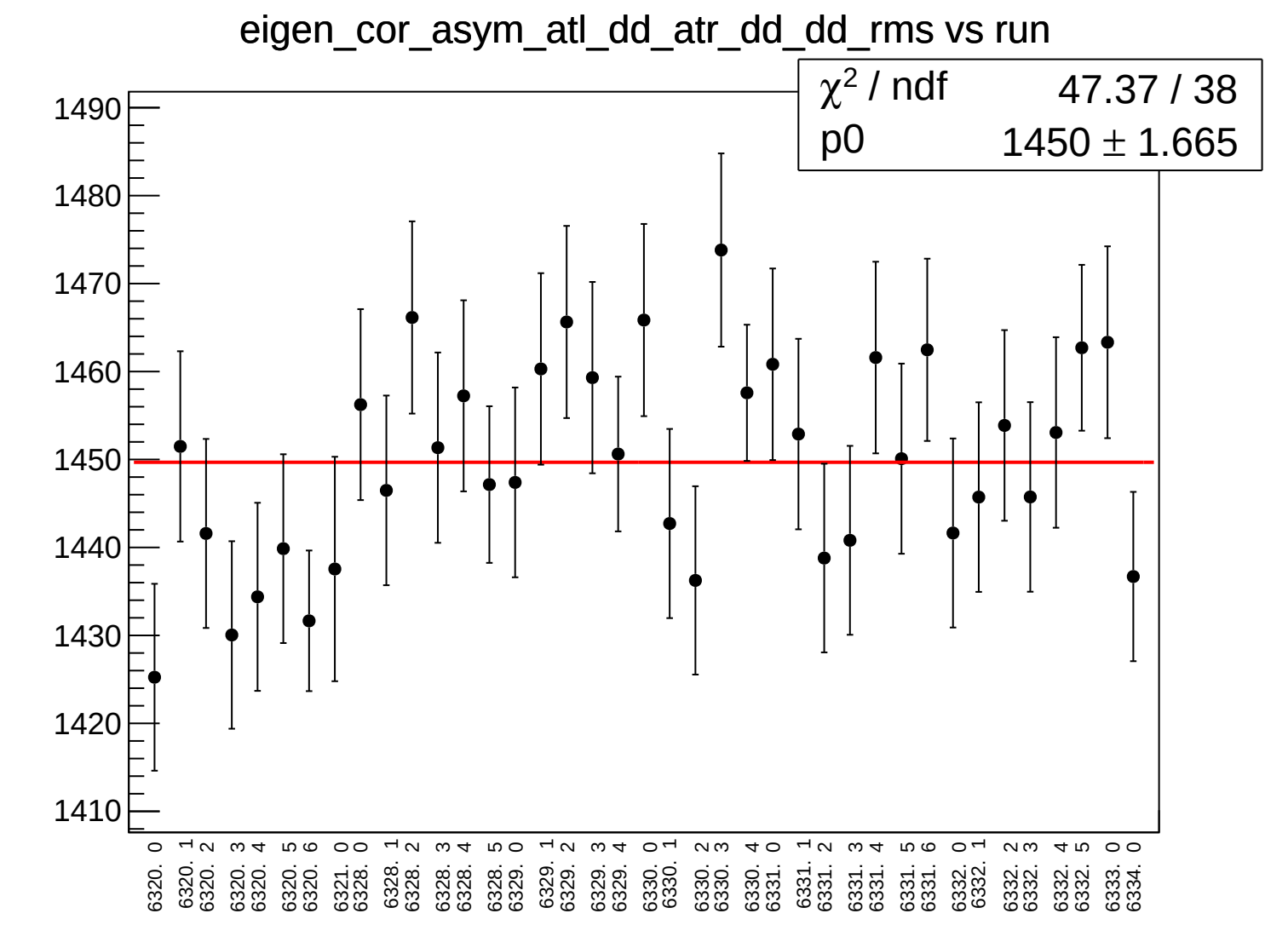
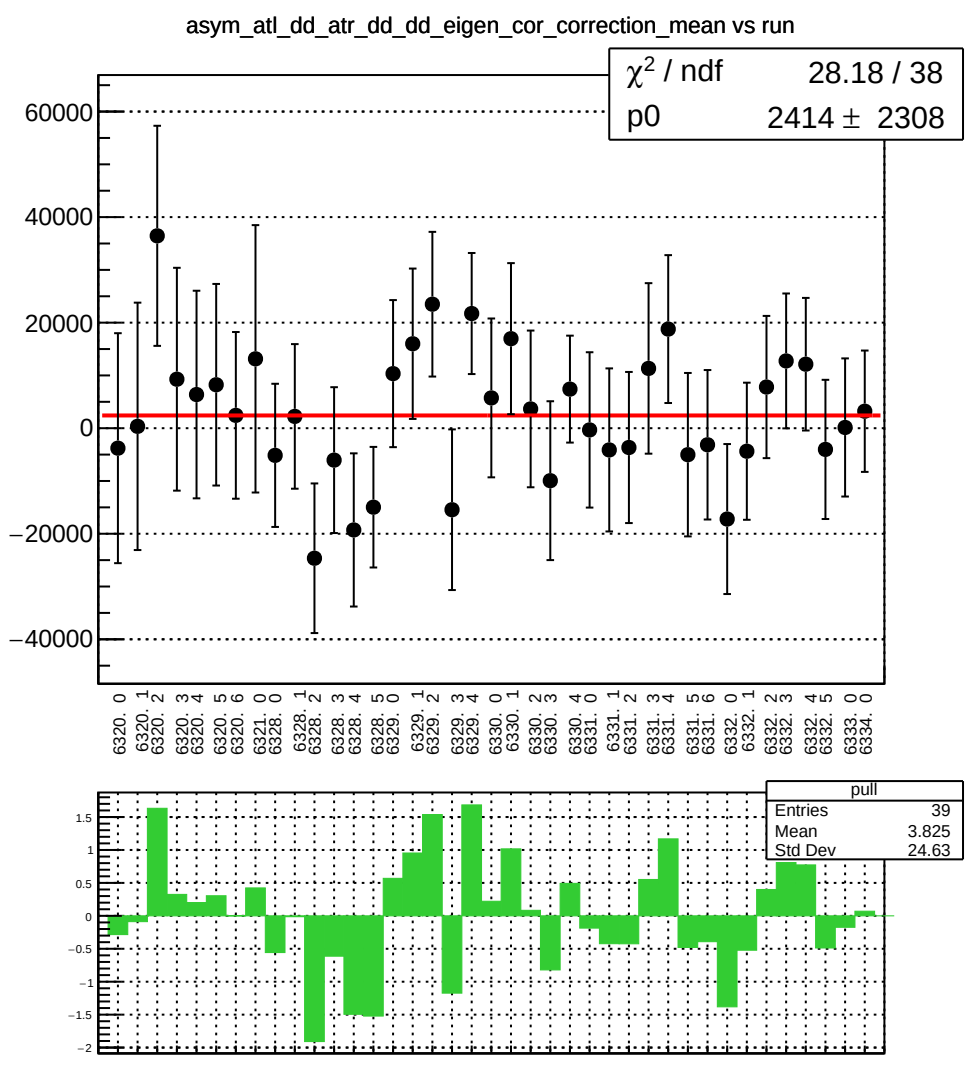
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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6331. 2
6331. 3
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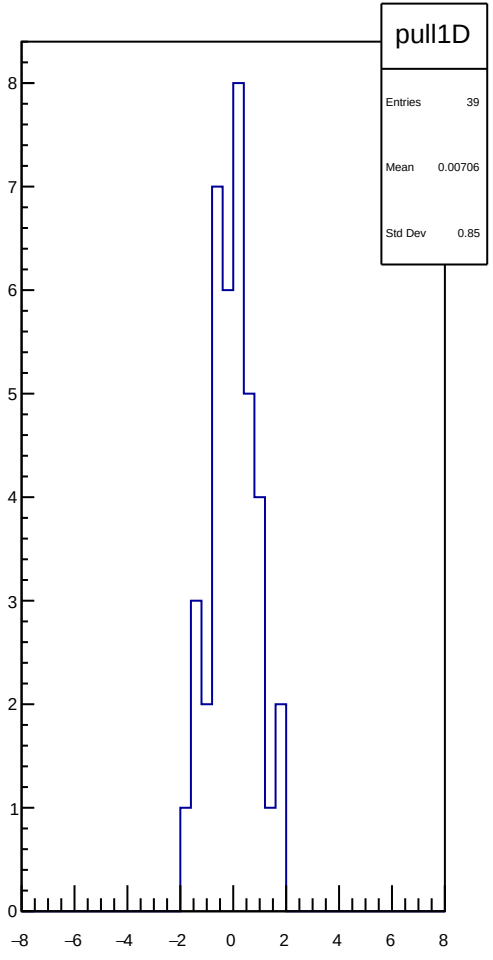
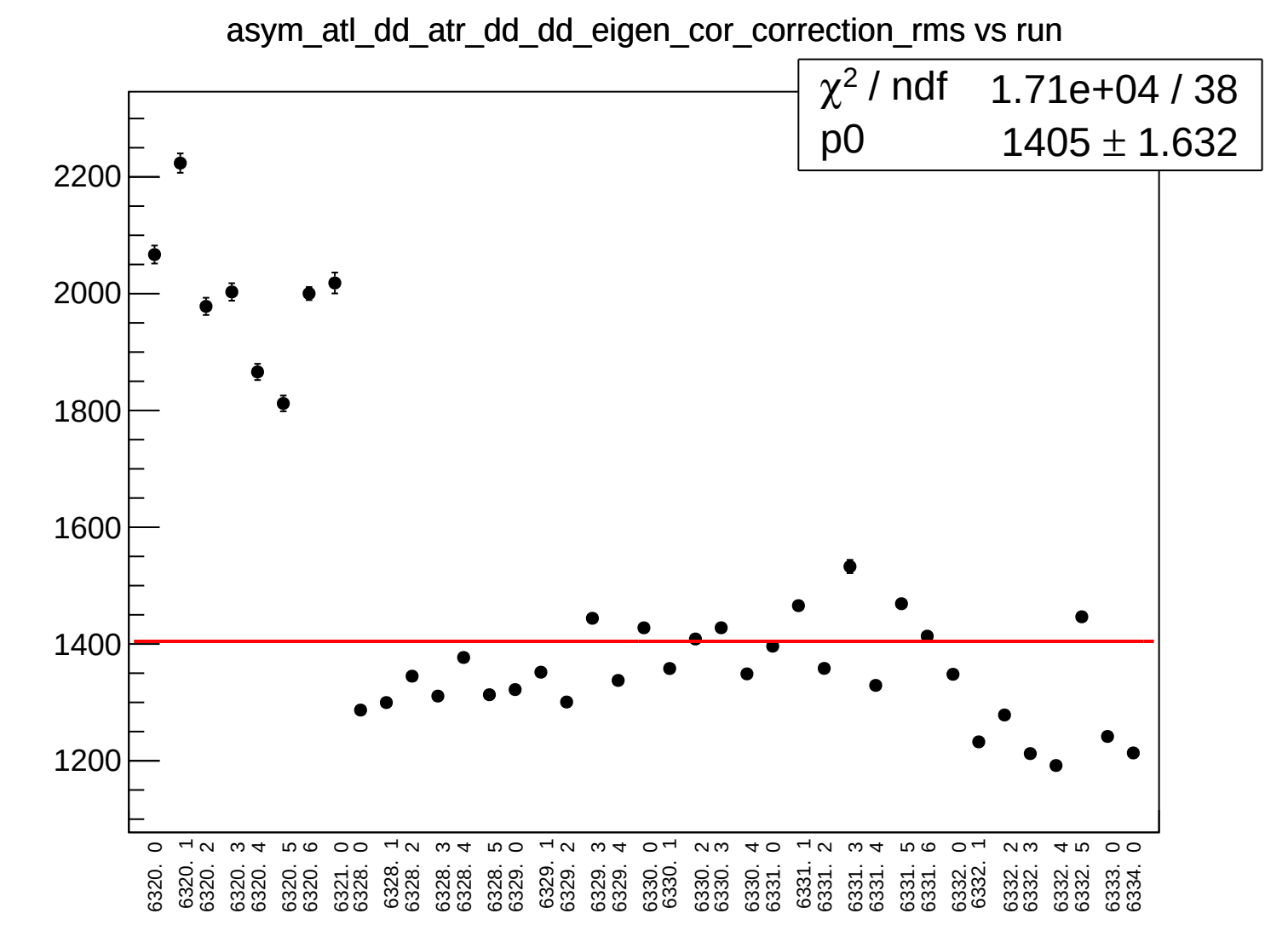
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.825
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.00706
Std Dev 0.85
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_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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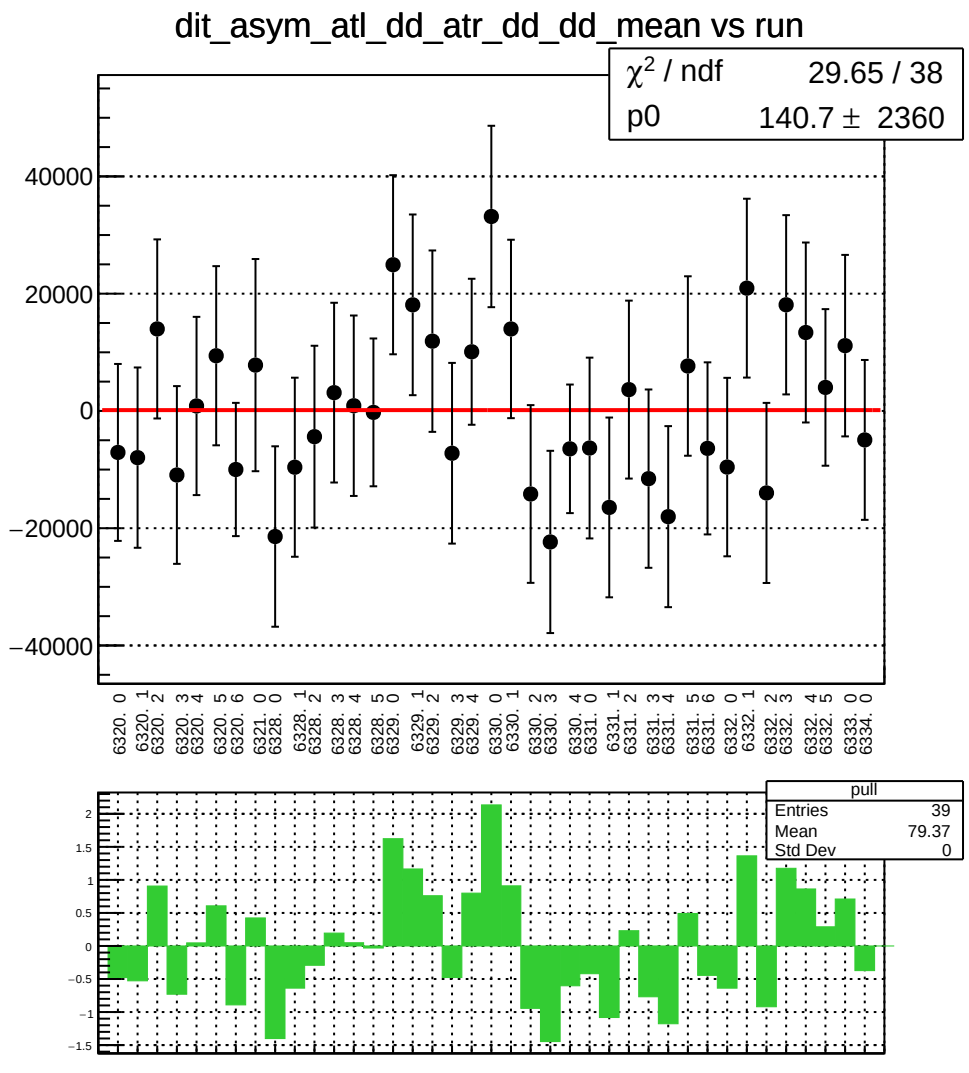
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 29.65 / 38
p0 140.7 ± 2360
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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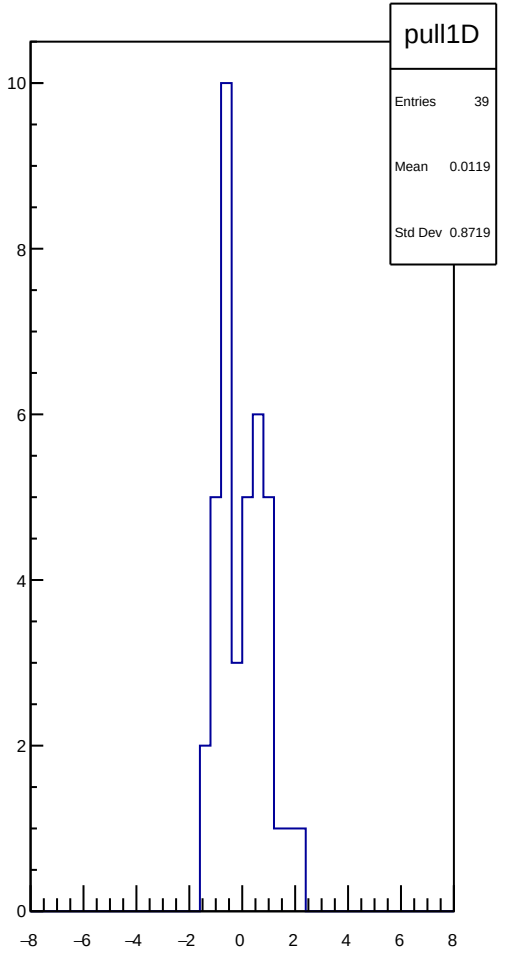
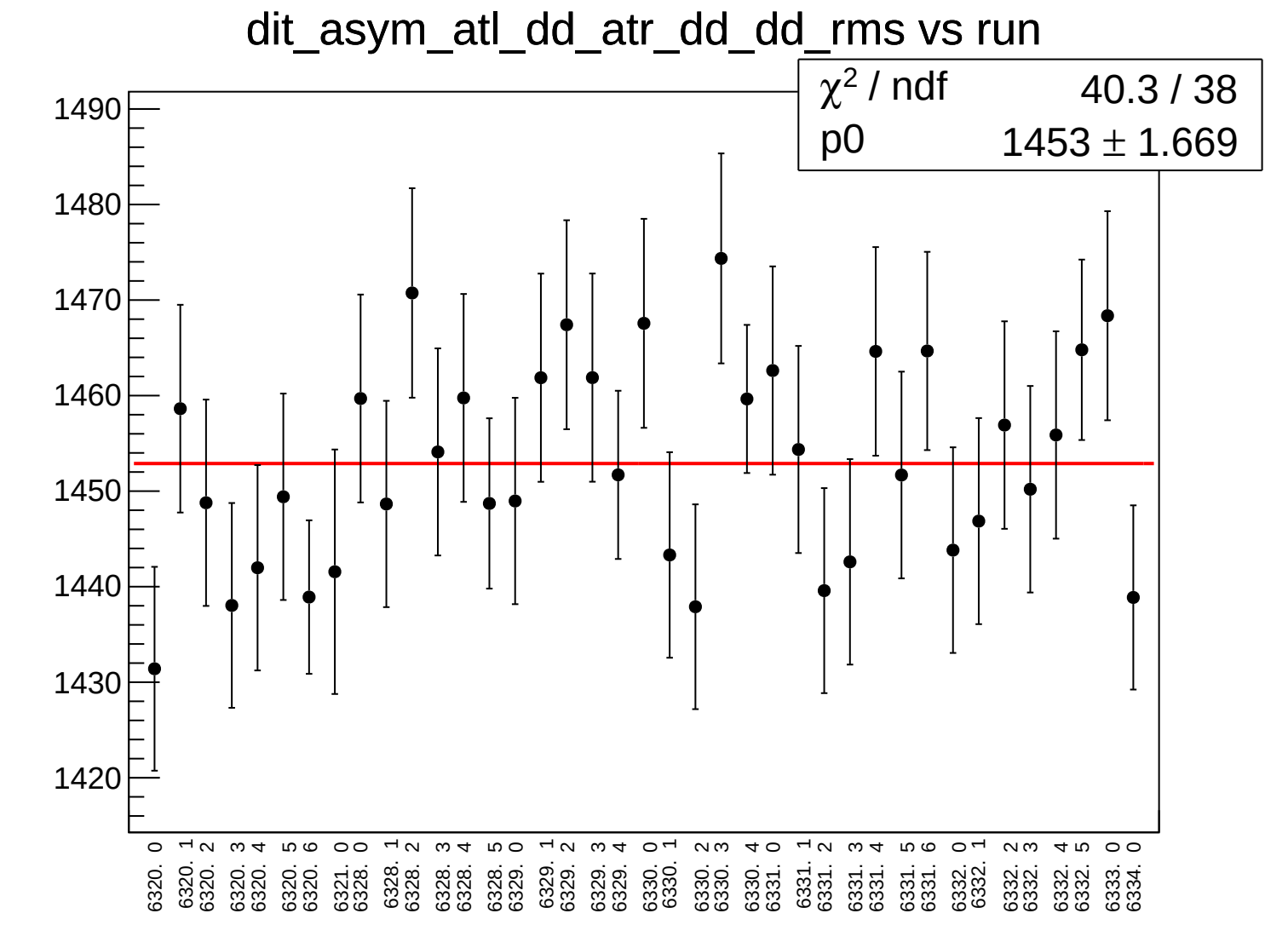
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 79.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.0119
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 40.3 / 38
p0 1453 ± 1.669
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
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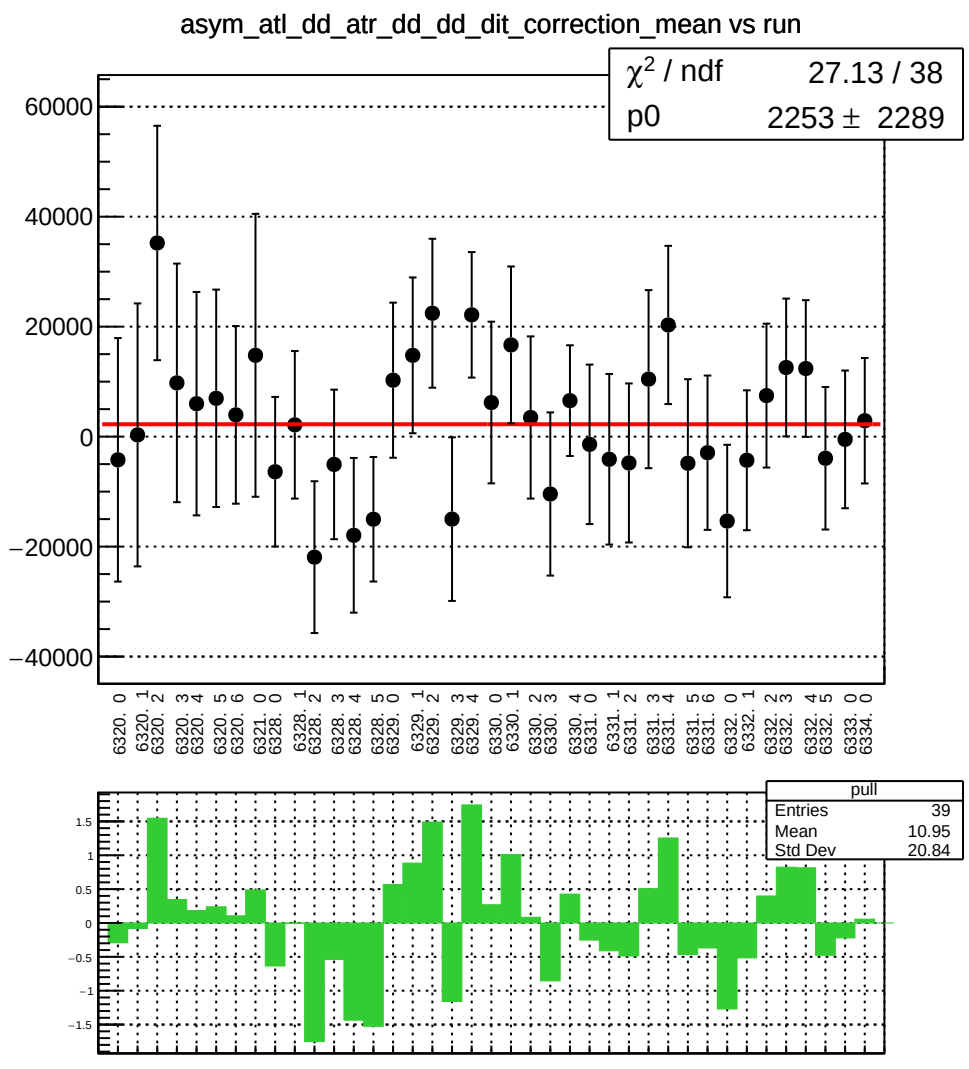
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 27.13 / 38
p0 2253 ± 2289
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 0
6329. 1
6329. 2
6329. 3
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6330. 0
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6330. 2
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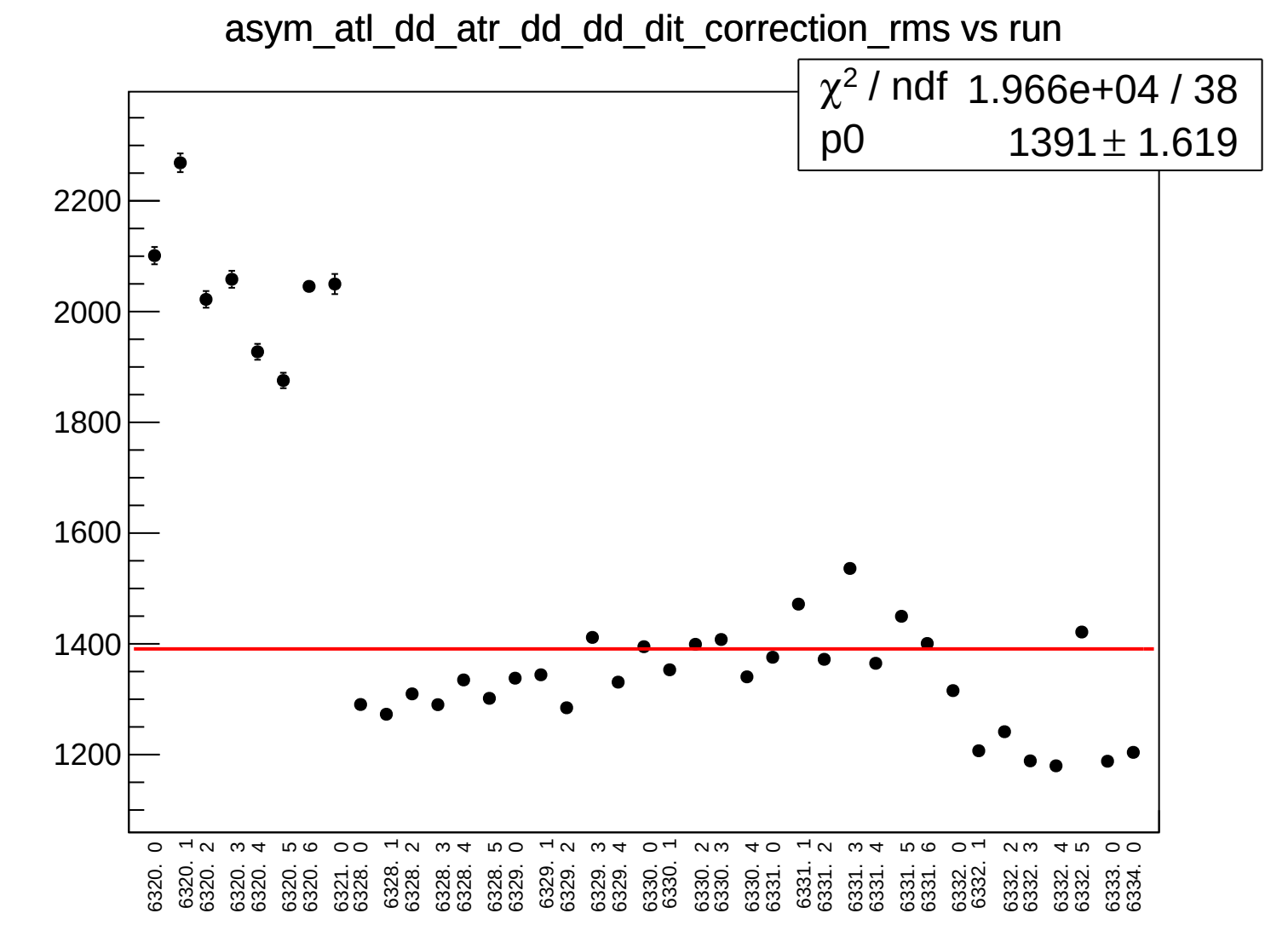
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.95
Std Dev 20.84
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01272
Std Dev 0.8339
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.966e+04 / 38
p0 1391 ± 1.619
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 1
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6329. 4
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6330. 1
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6332. 0
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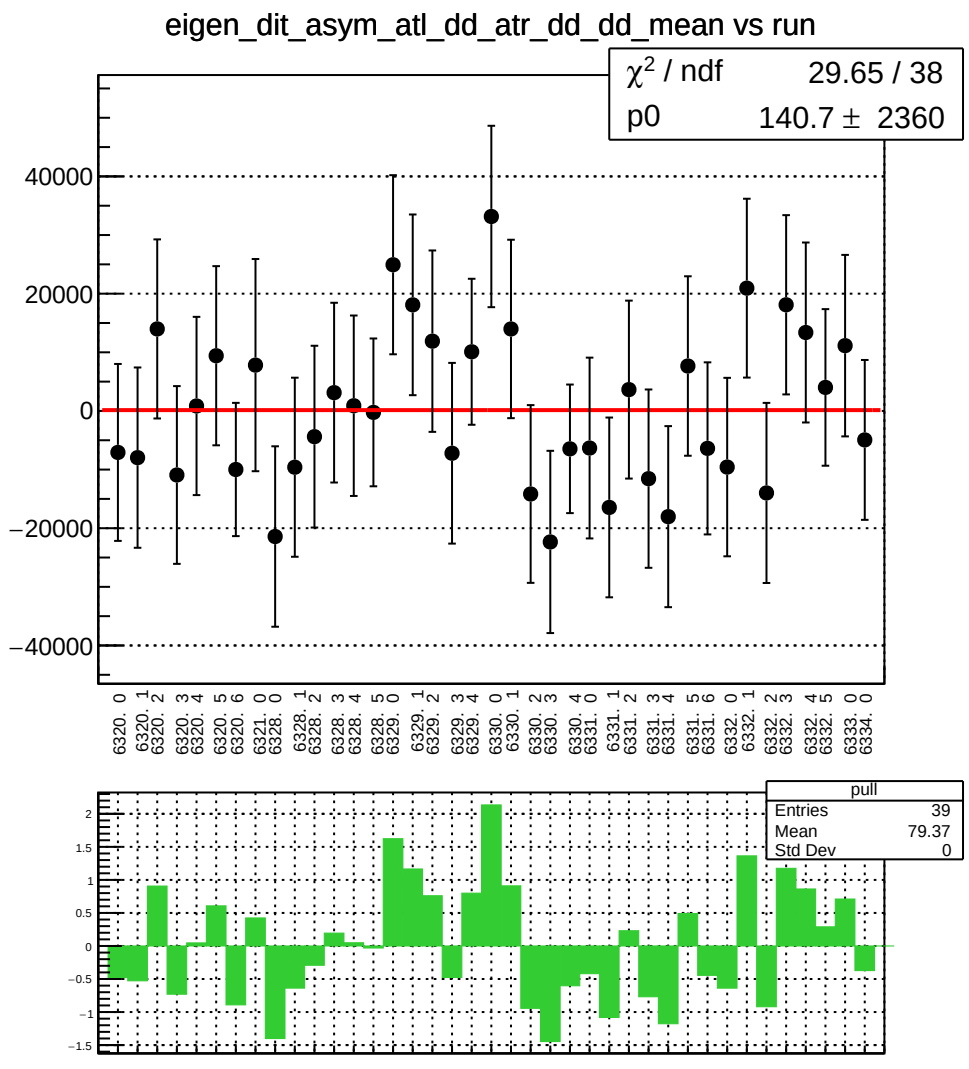
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 29.65 / 38
p0 140.7 ± 2360
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6331. 2
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6331. 6
6332. 0
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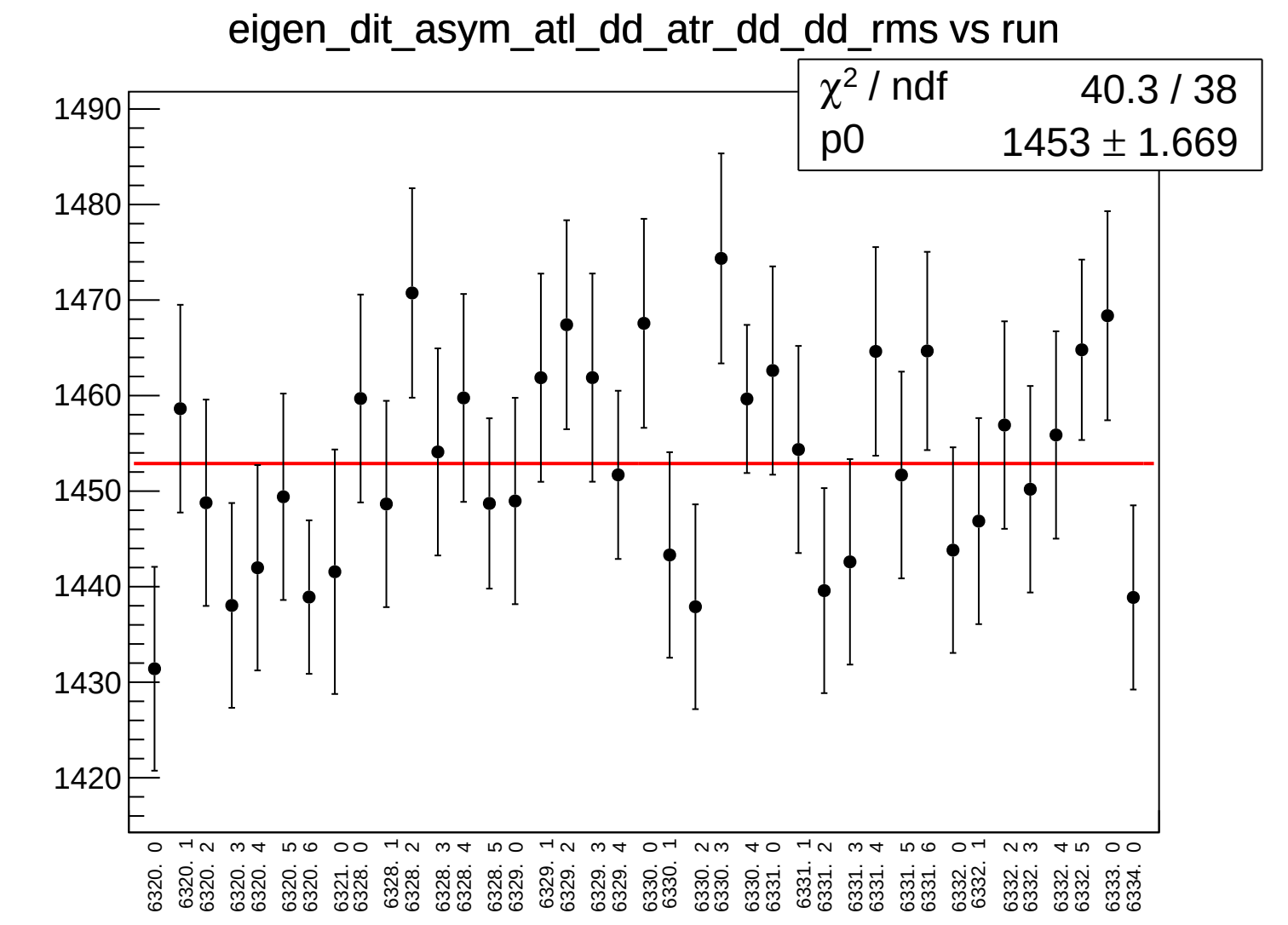
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 79.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0119
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 40.3 / 38
p0 1453 ± 1.669
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6328. 1
6328. 2
6328. 3
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6329. 1
6329. 2
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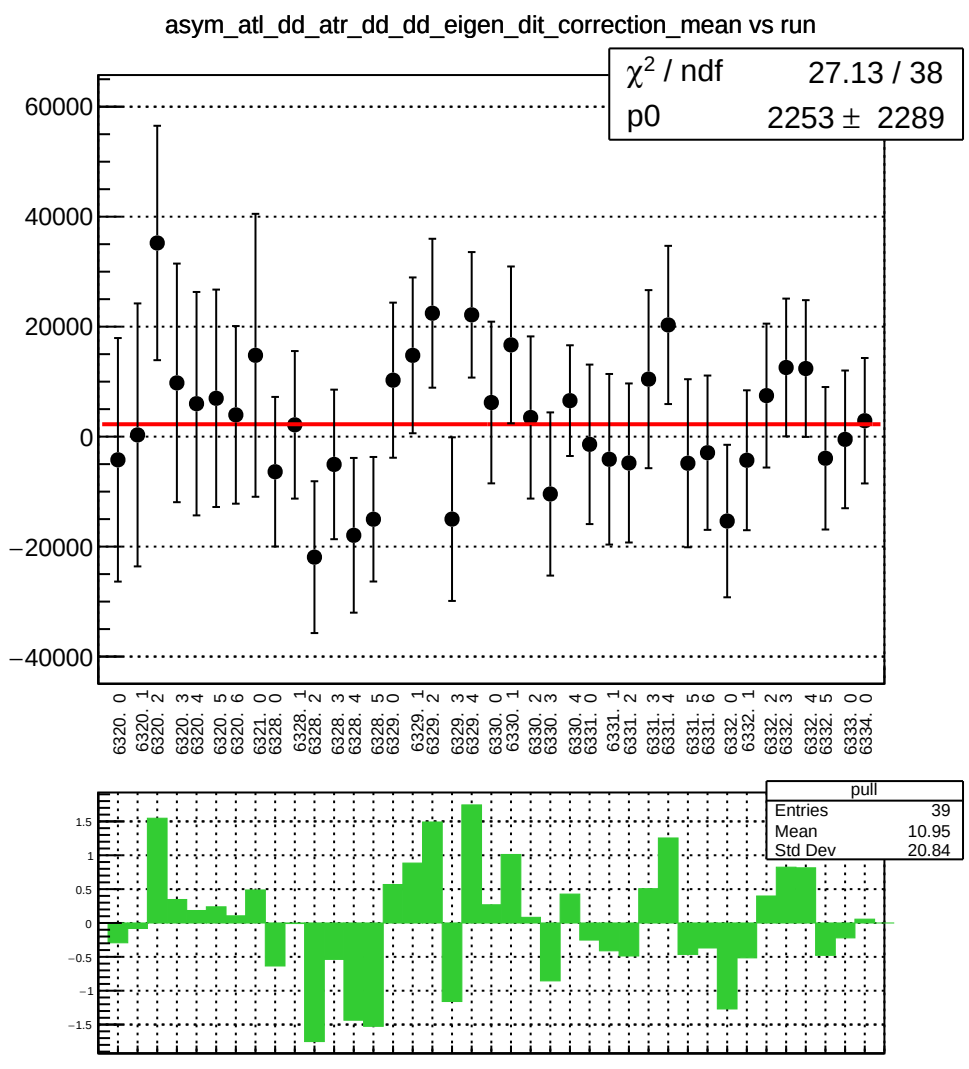
6334. 0


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 27.13 / 38
p0 2253 ± 2289
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
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6329. 3
6329. 4
6330. 0
6330. 1
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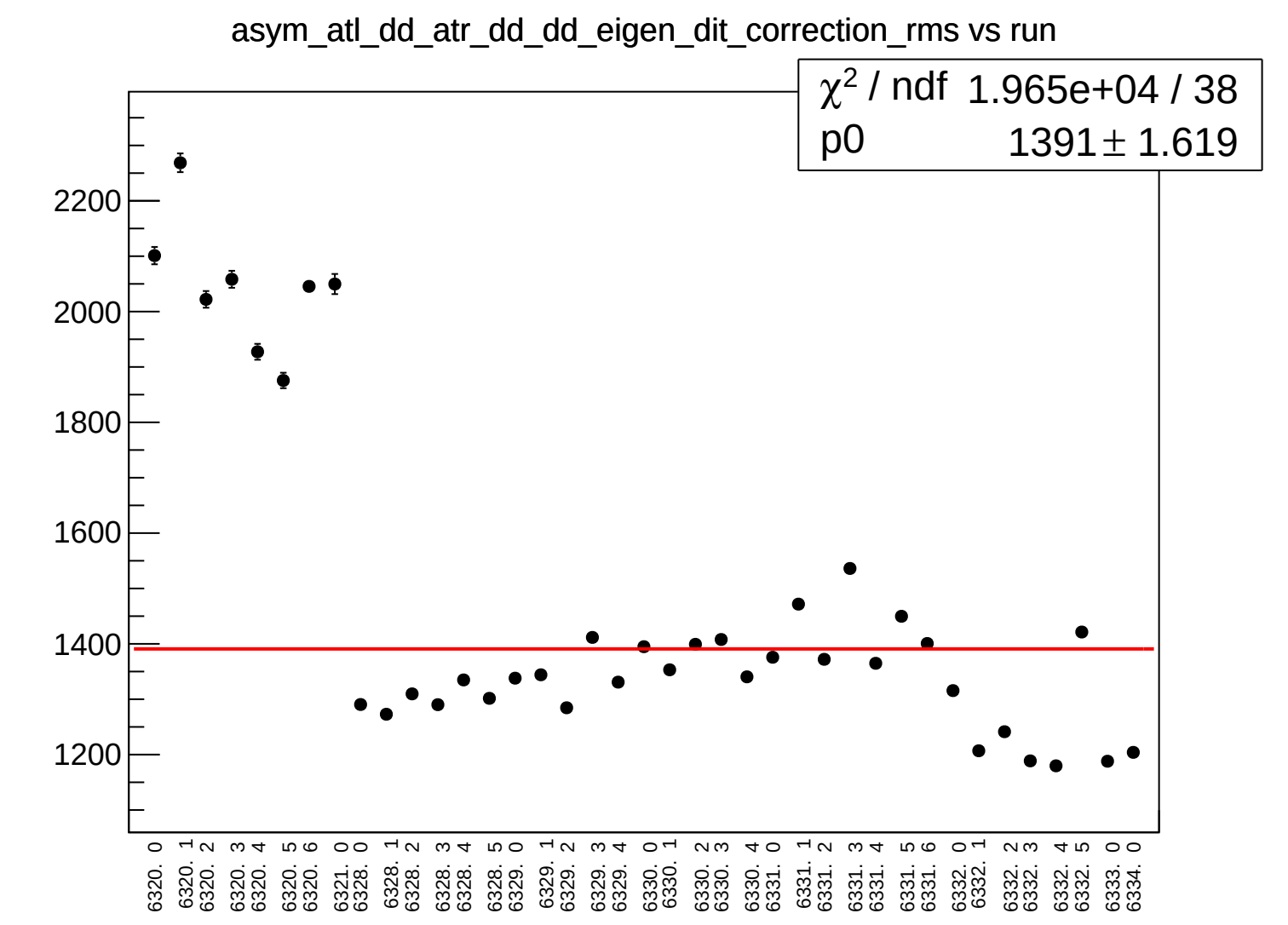
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.95
Std Dev 20.84
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01272
Std Dev 0.8339
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 38
p0 1391 ± 1.619
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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6331. 2
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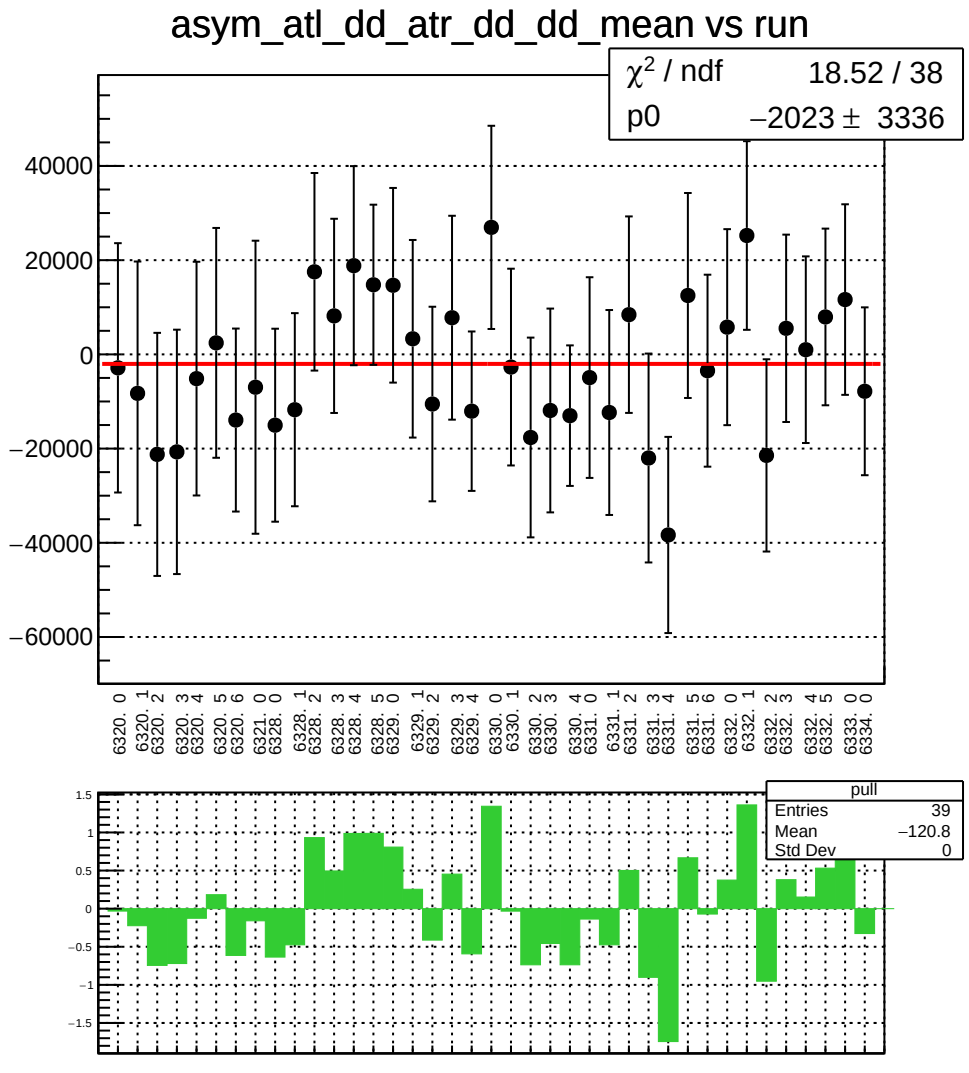
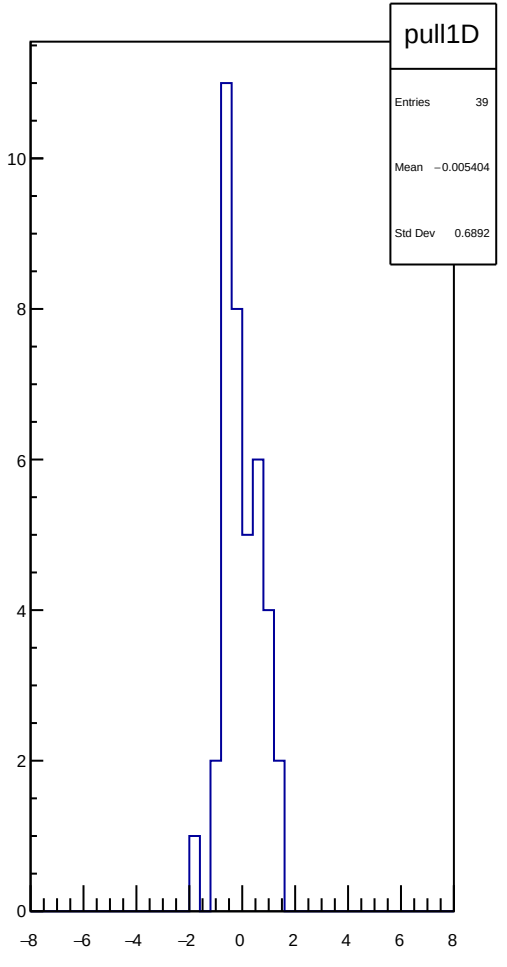
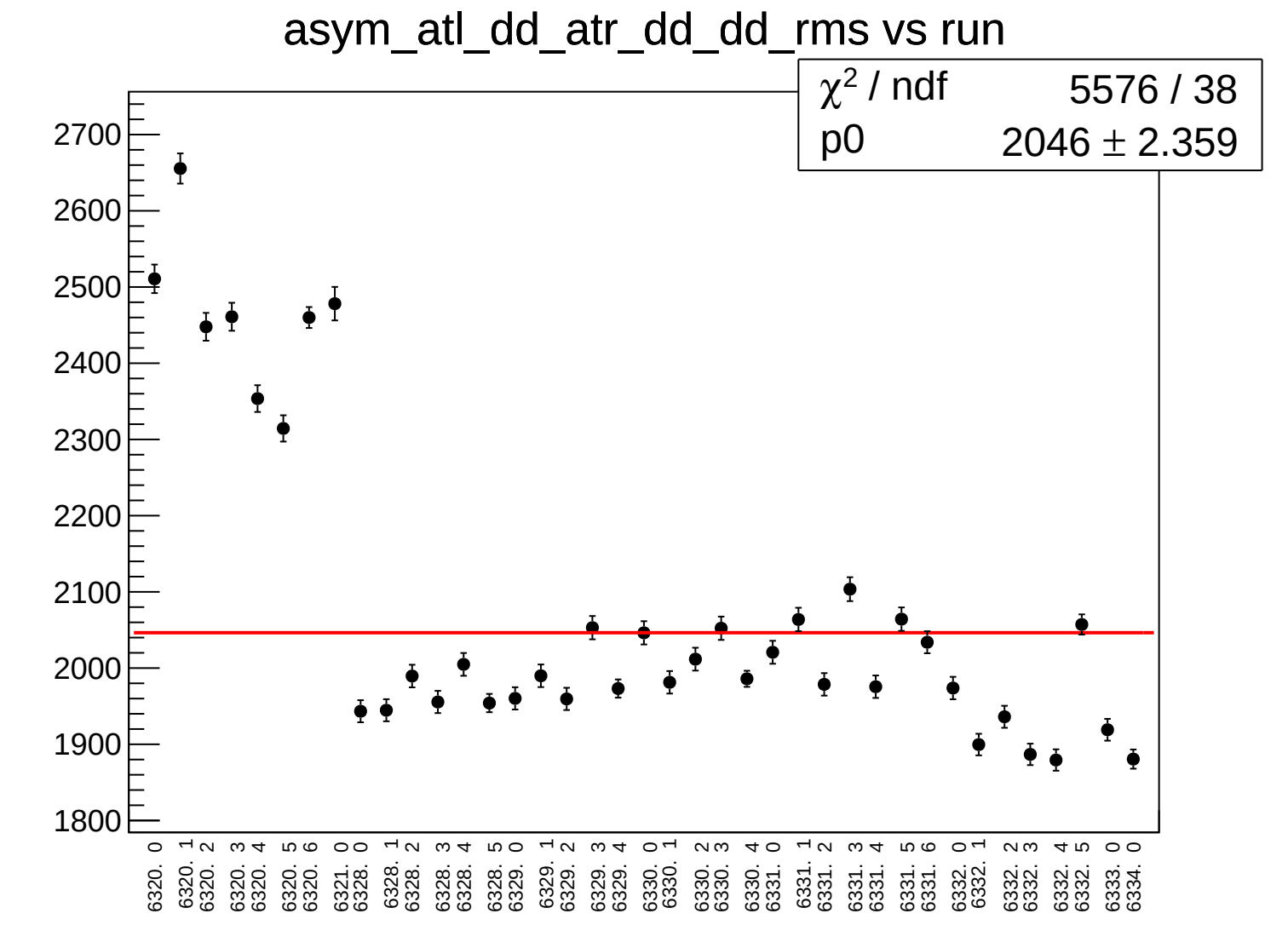
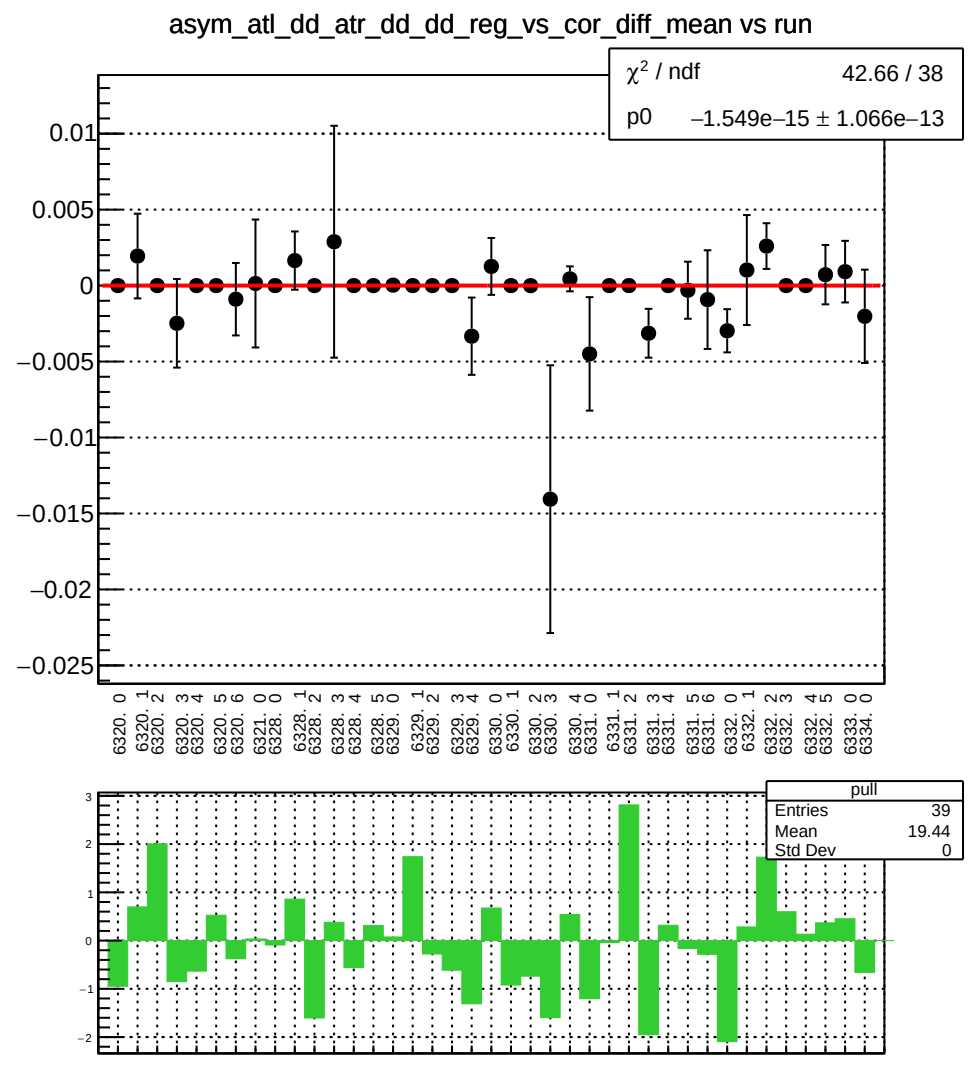
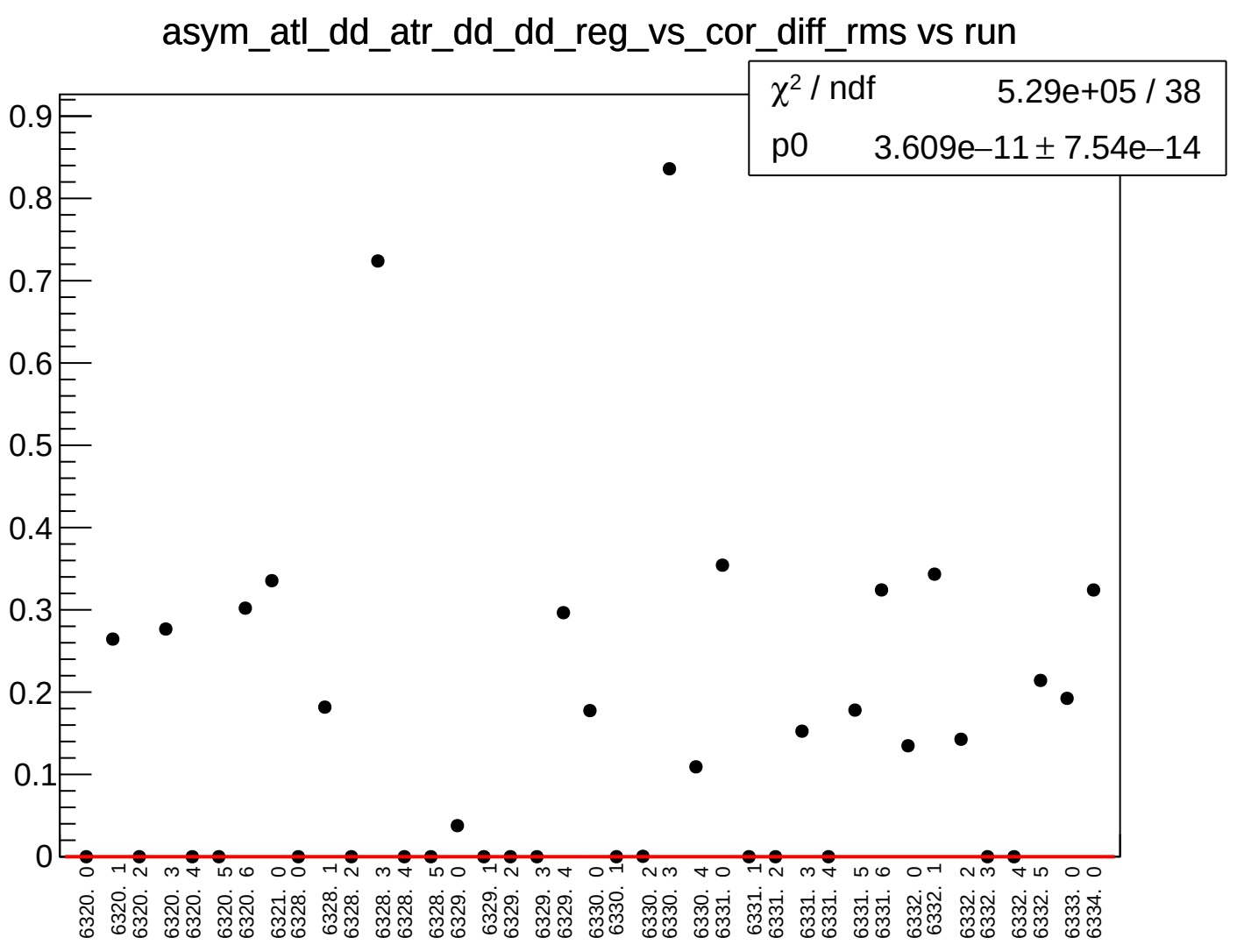
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

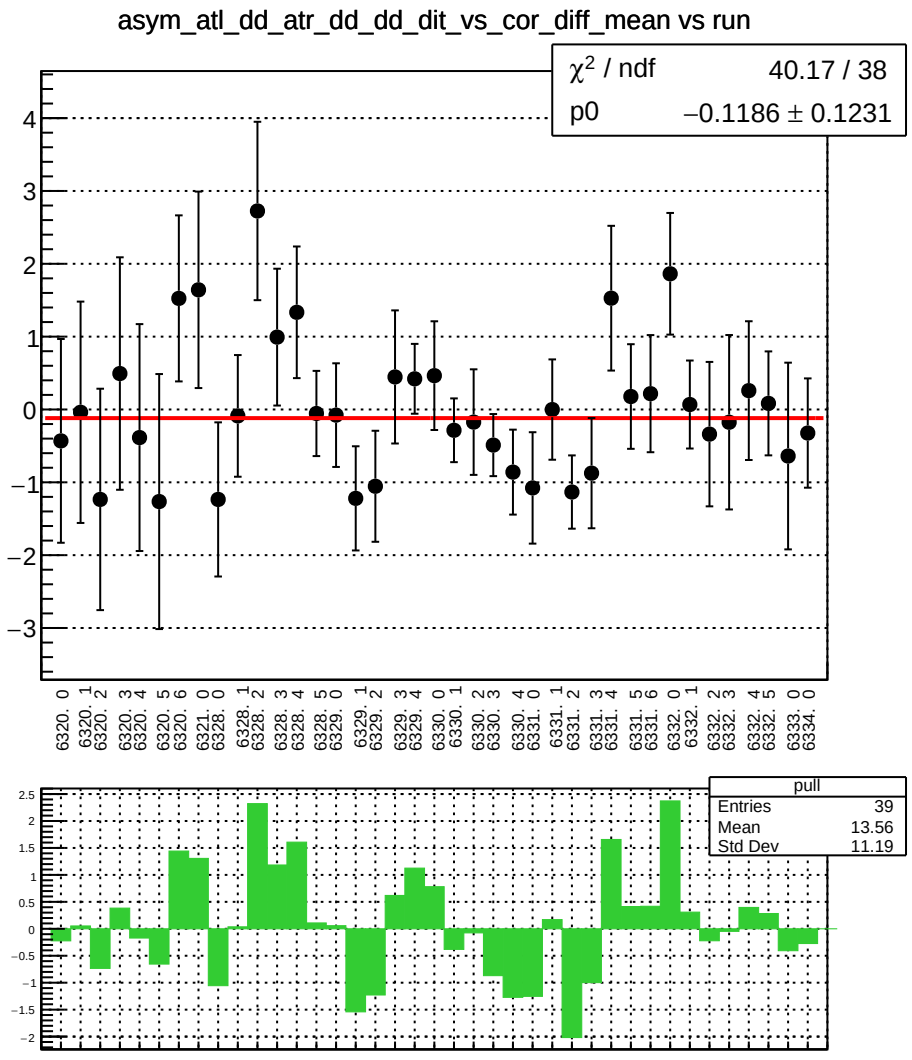

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.52 / 38
p0 −2023 ± 3336
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −120.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

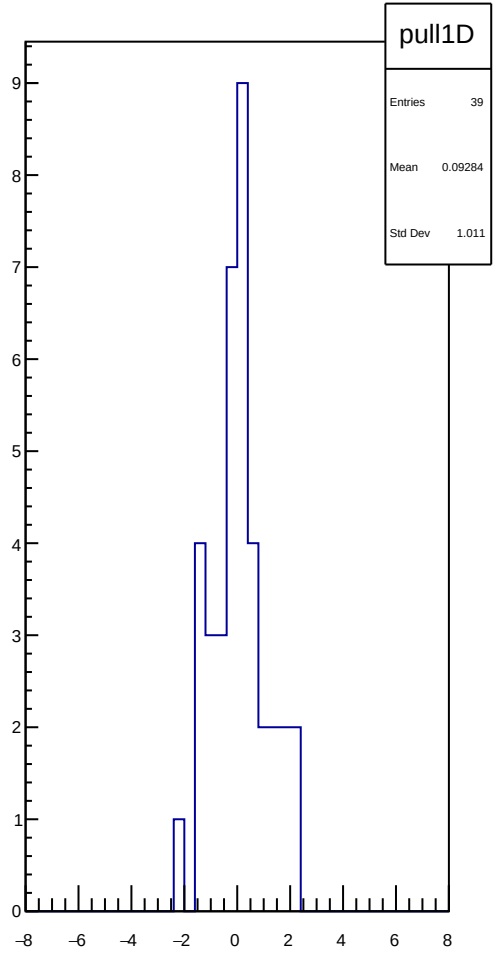

pull1D
Entries 39
Mean −0.005404
Std Dev 0.6892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

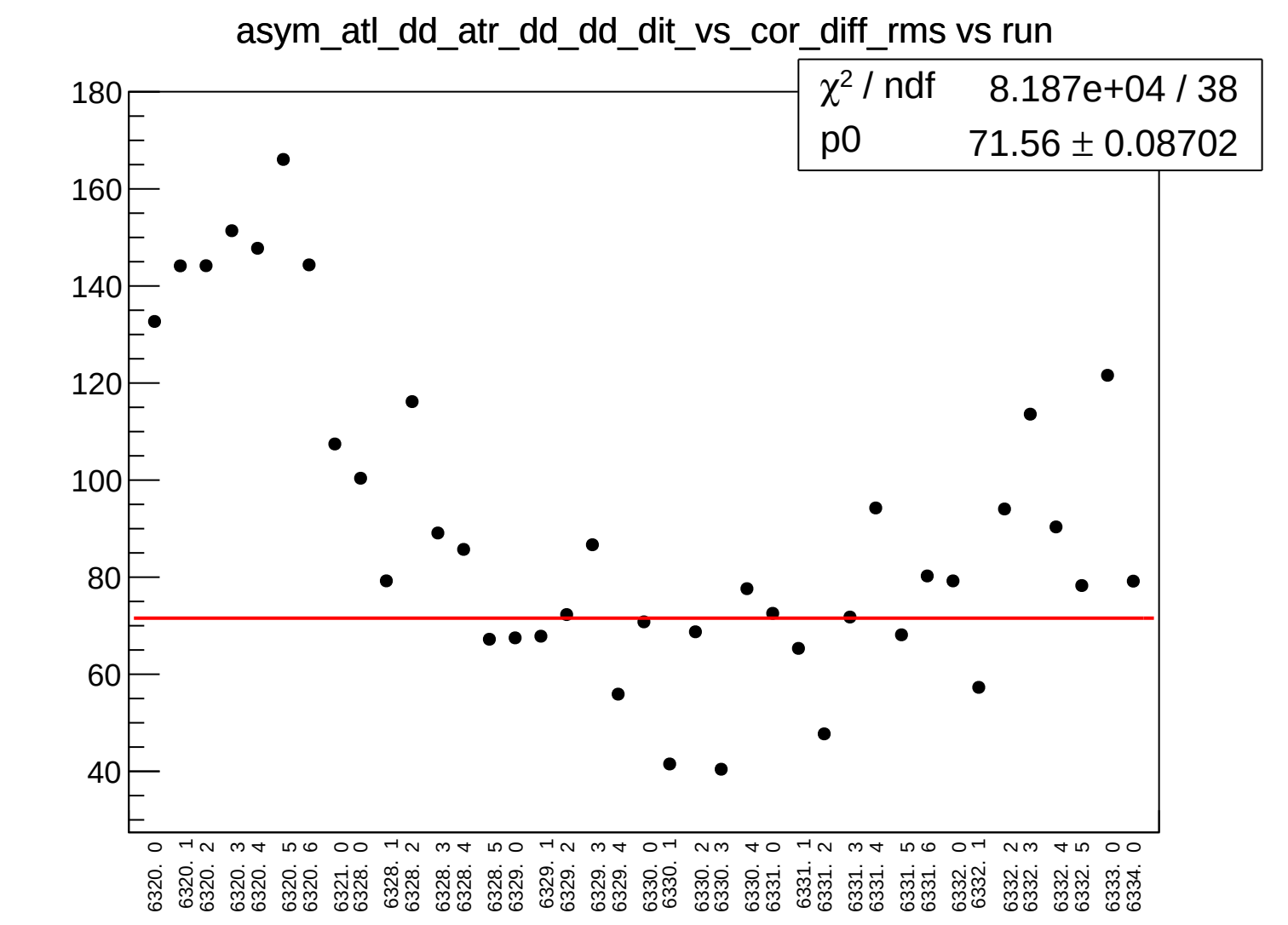

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5576 / 38
p0 2046 ± 2.359
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

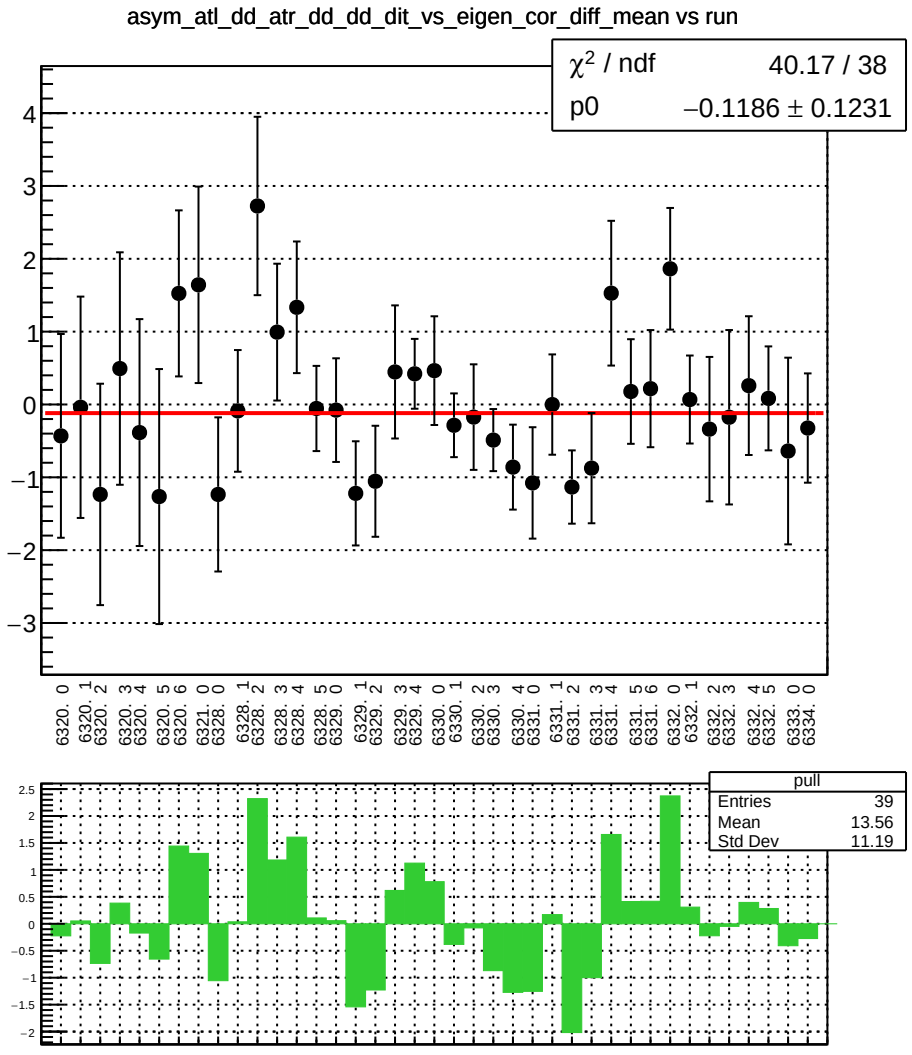

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42.66 / 38
p0 −1.549e−15 ± 1.066e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.44
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.06095
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

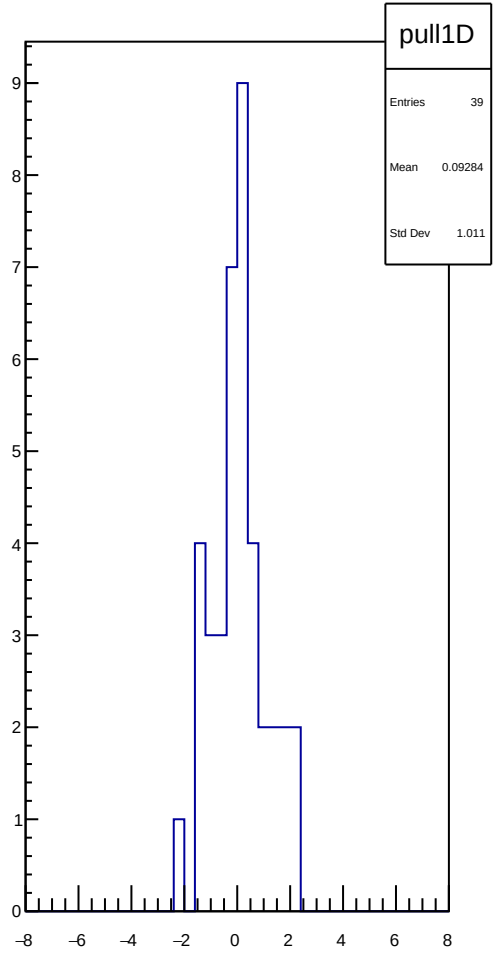

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.29e+05 / 38
p0 3.609e−11 ± 7.54e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

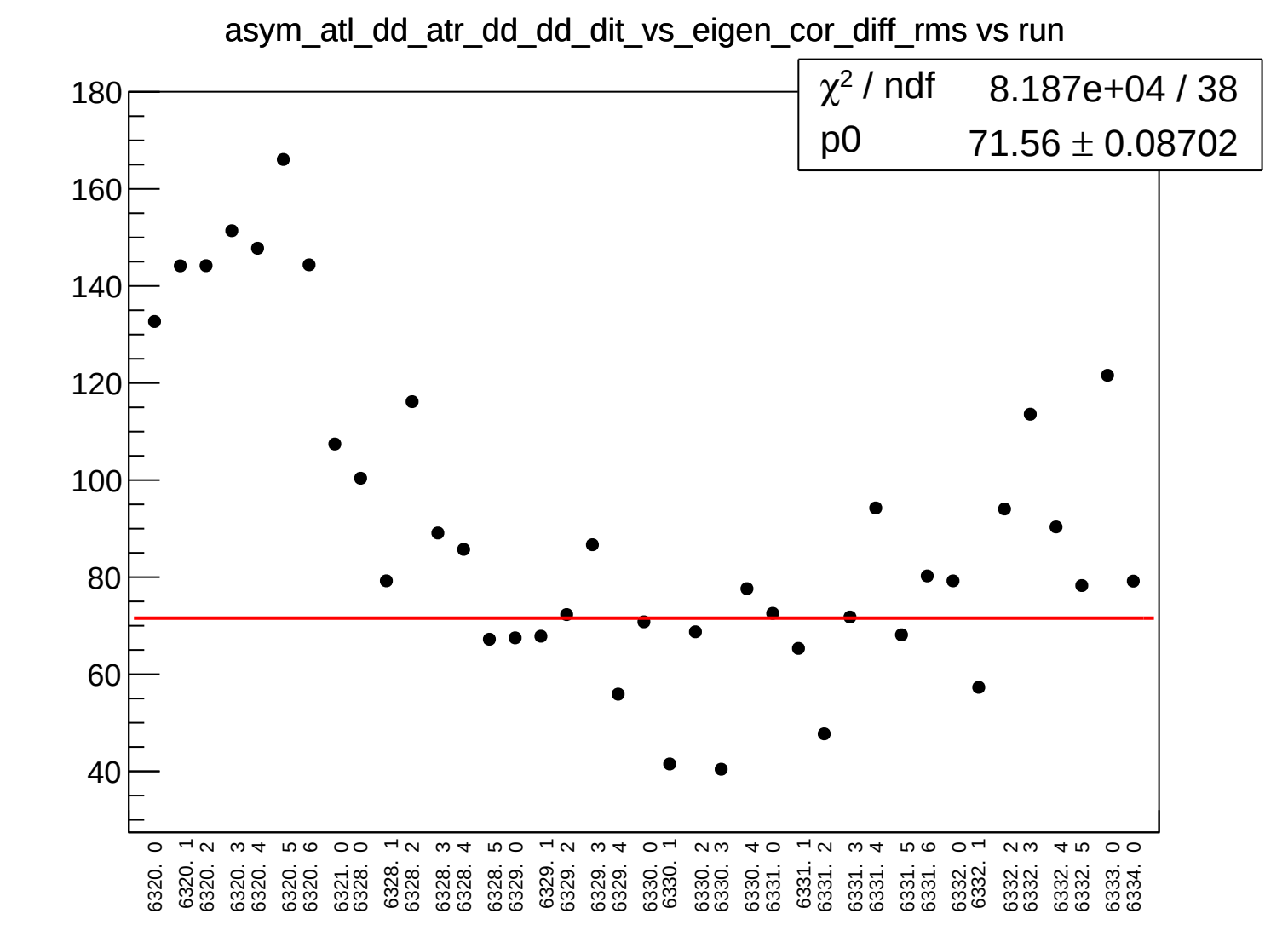

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19

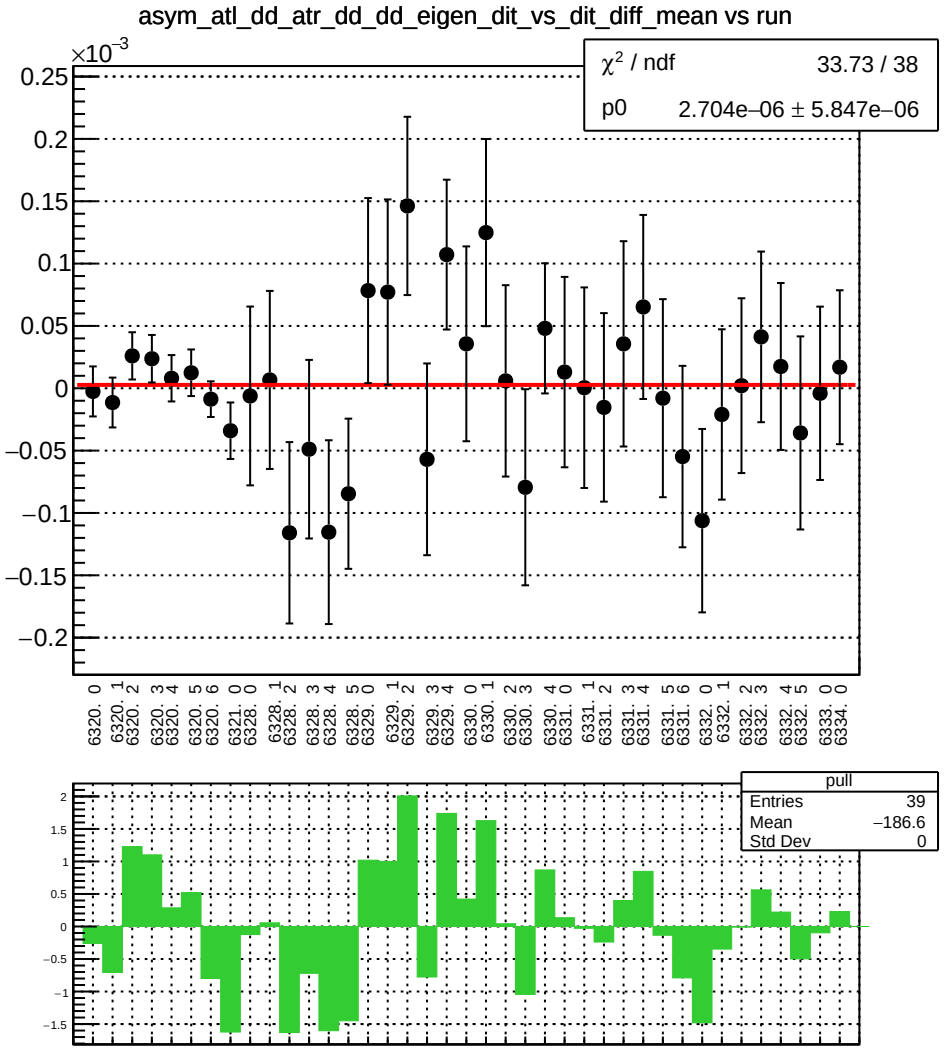

pull1D
Entries 39
Mean 0.09284
Std Dev 1.011

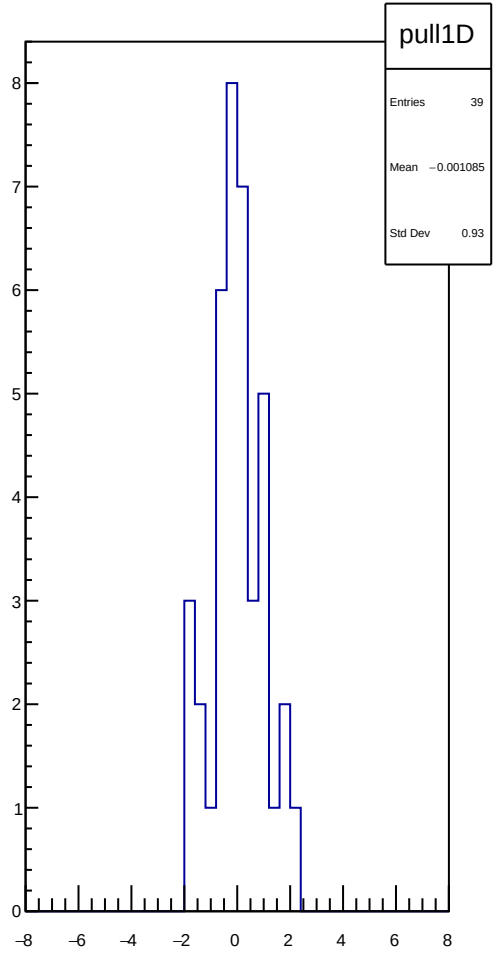

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.187e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

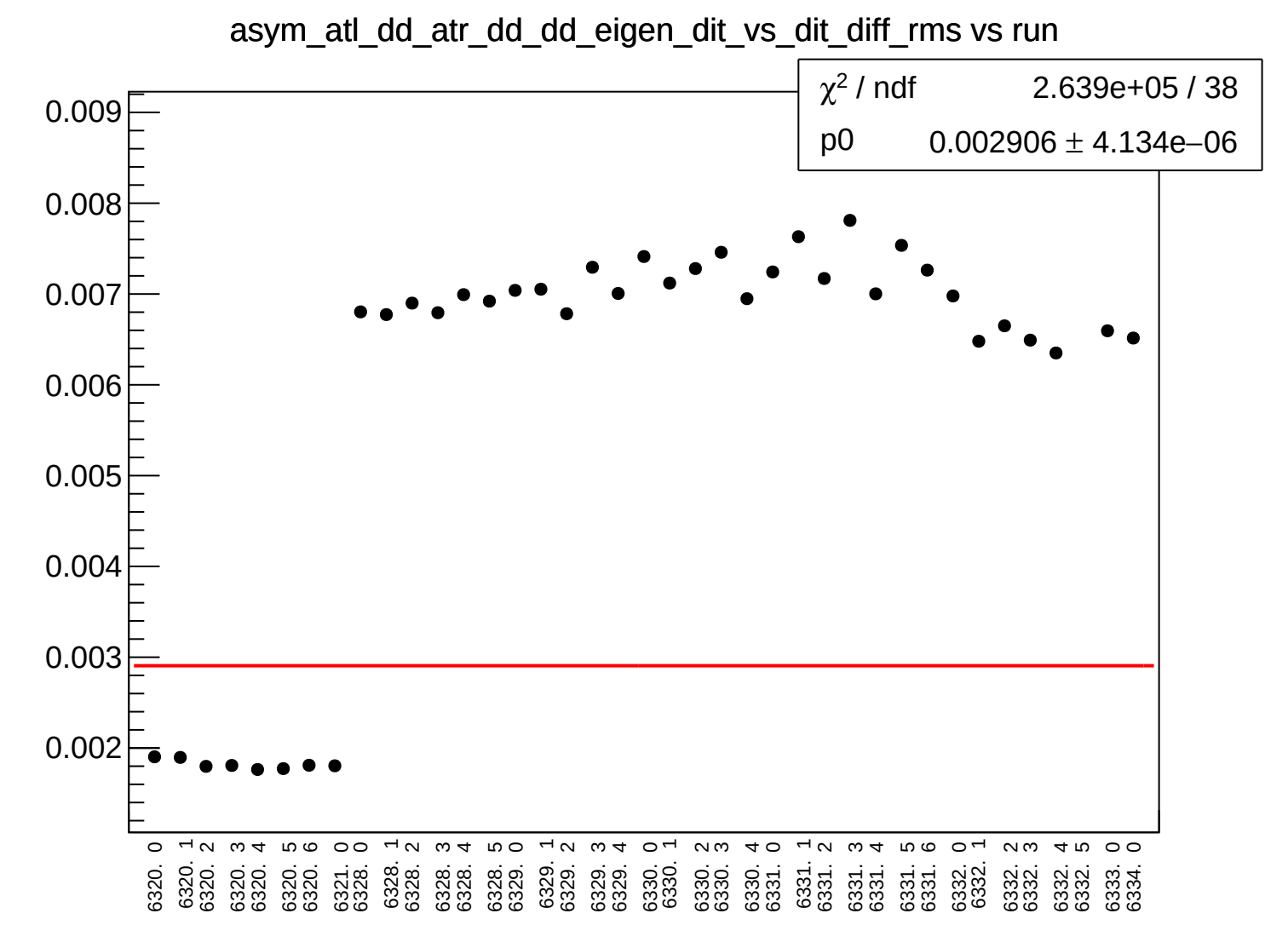

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19

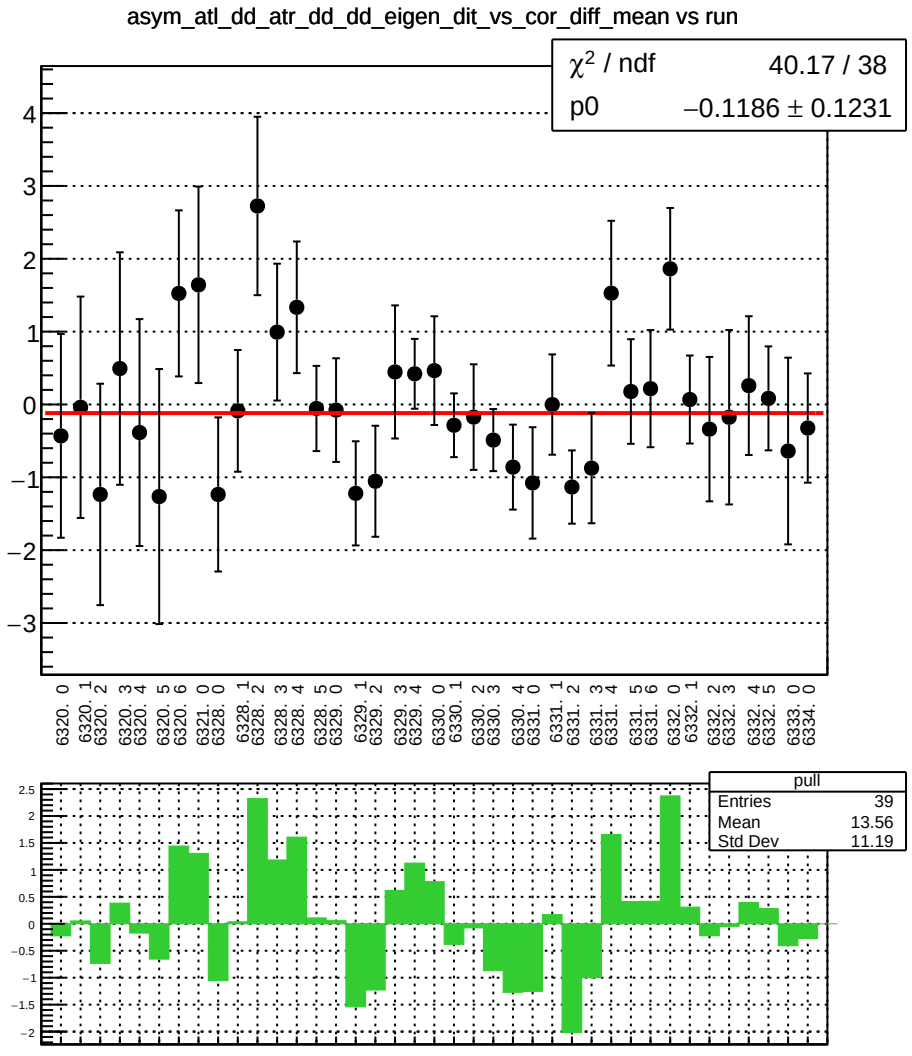

pull1D
Entries 39
Mean 0.09284
Std Dev 1.011

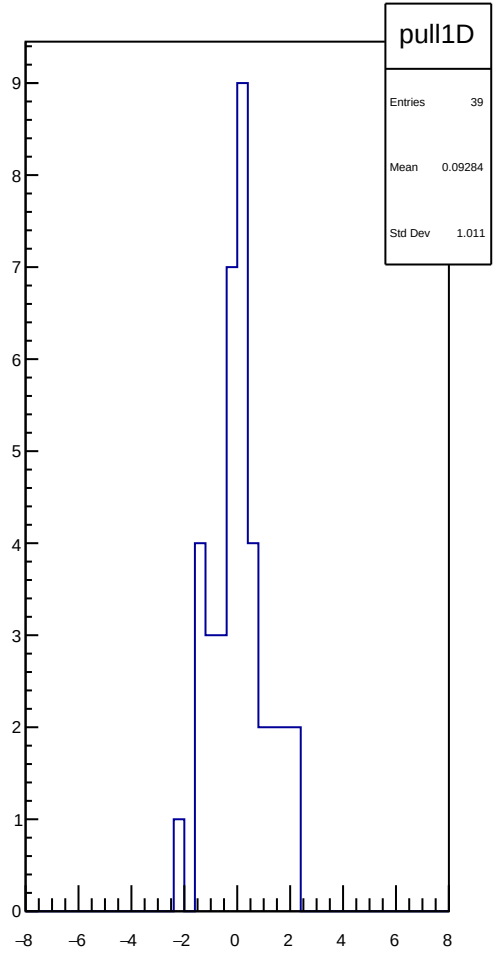

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.187e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

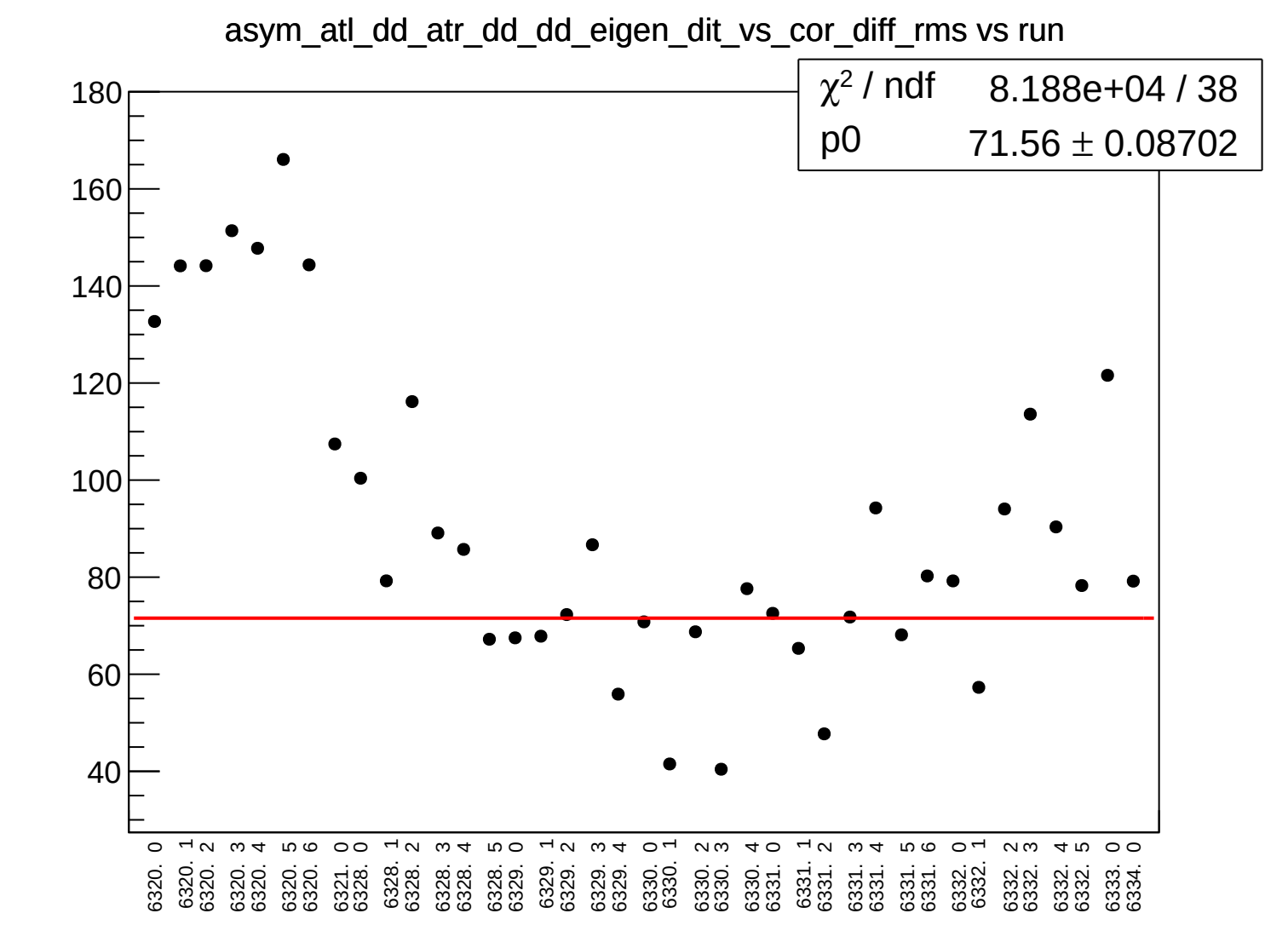

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.73 / 38
p0 2.704e−06 ± 5.847e−06
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −186.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

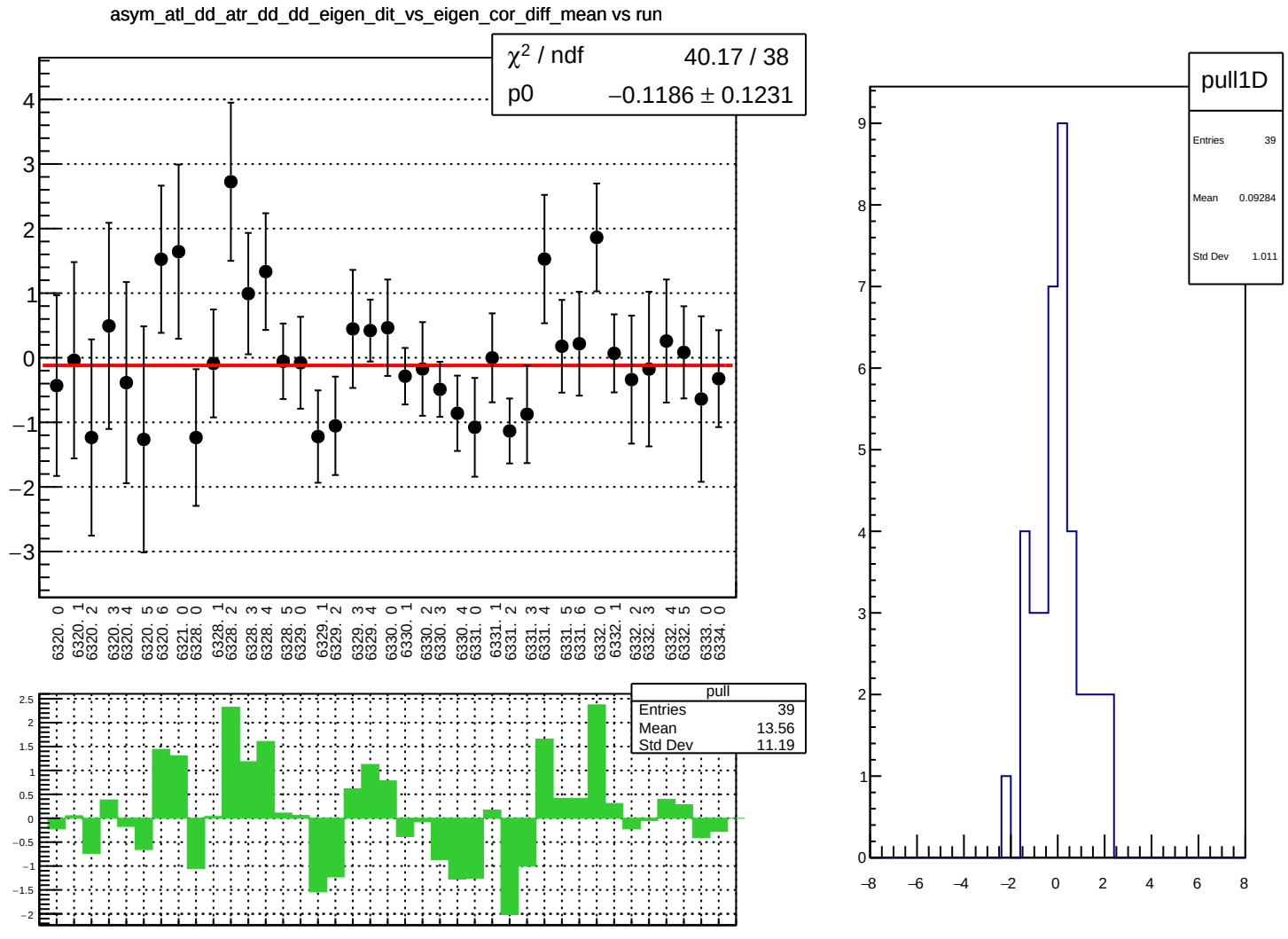

pull1D
Entries 39
Mean −0.001085
Std Dev 0.93
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

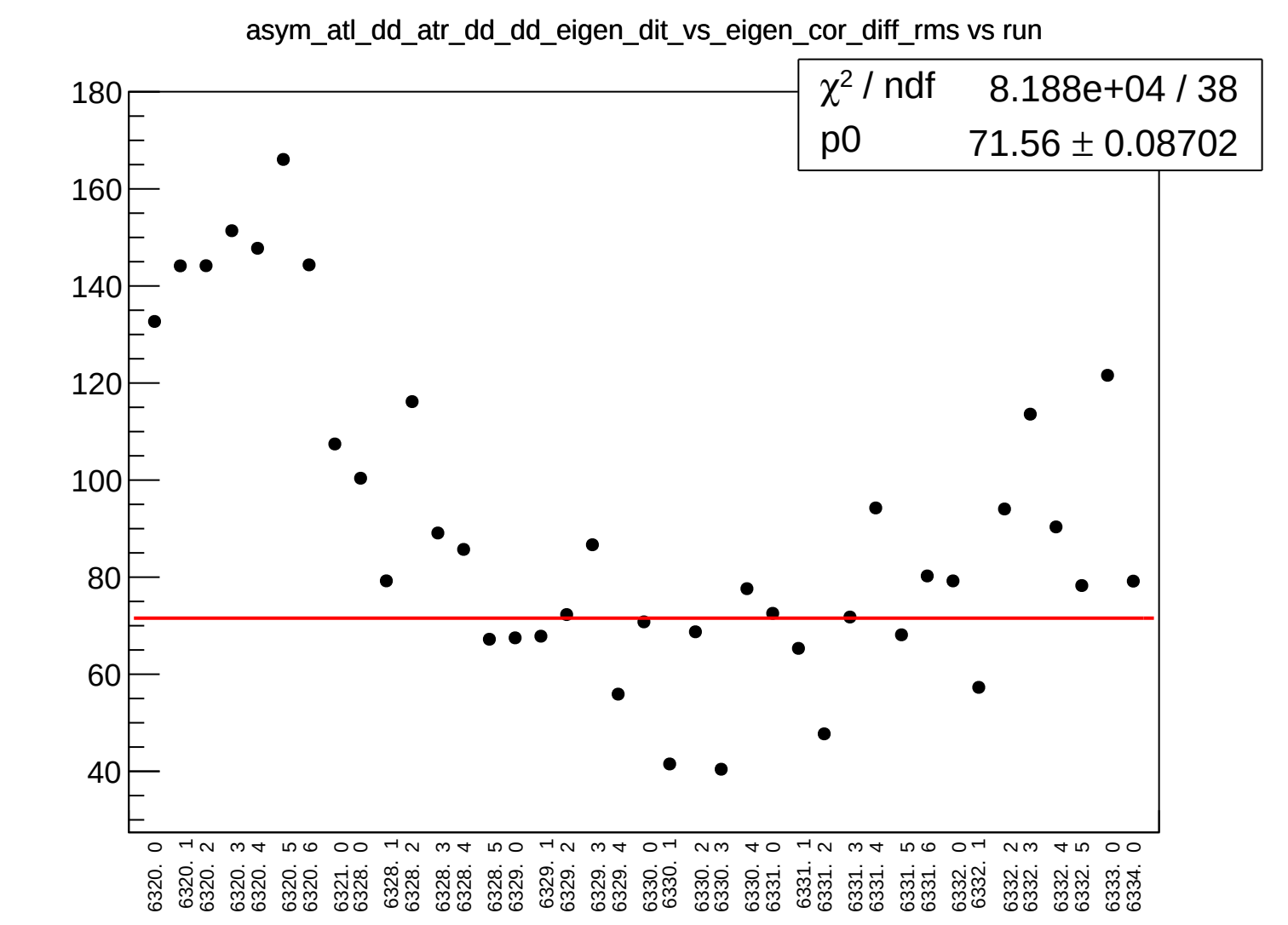

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.639e+05 / 38
p0 0.002906 ± 4.134e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

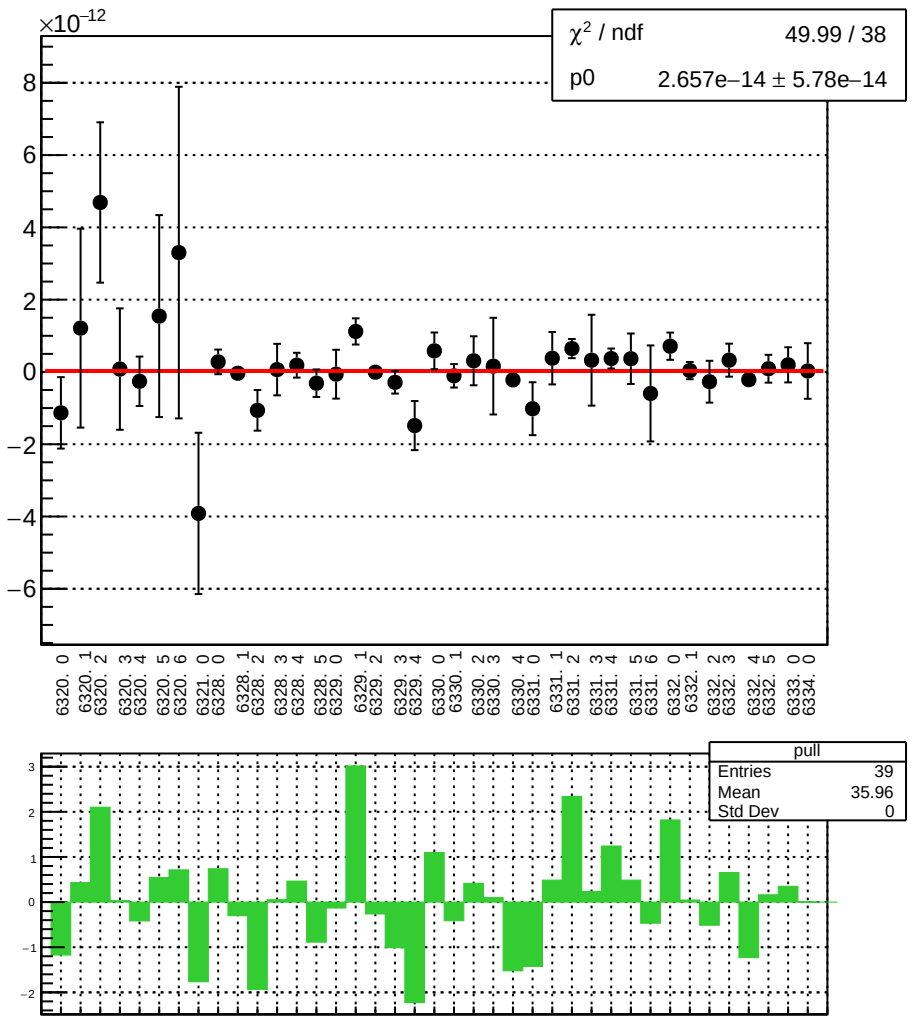

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19

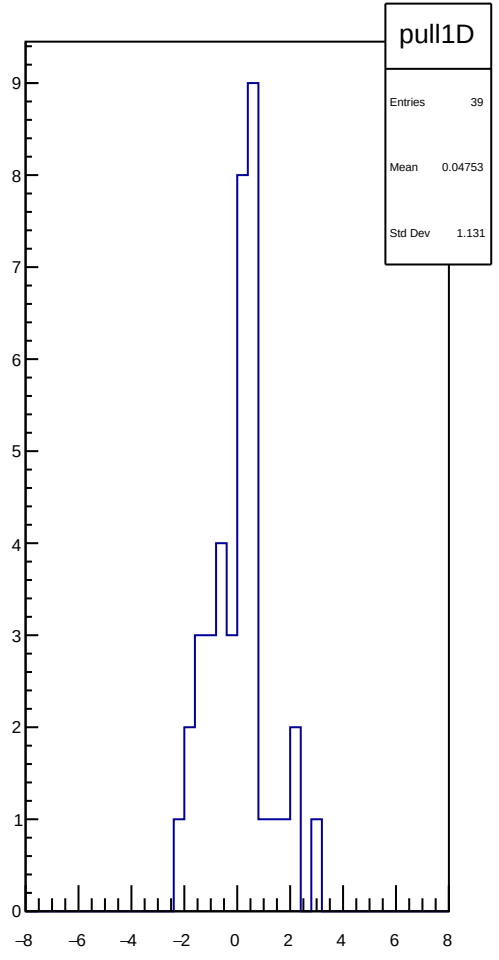

pull1D
Entries 39
Mean 0.09284
Std Dev 1.011

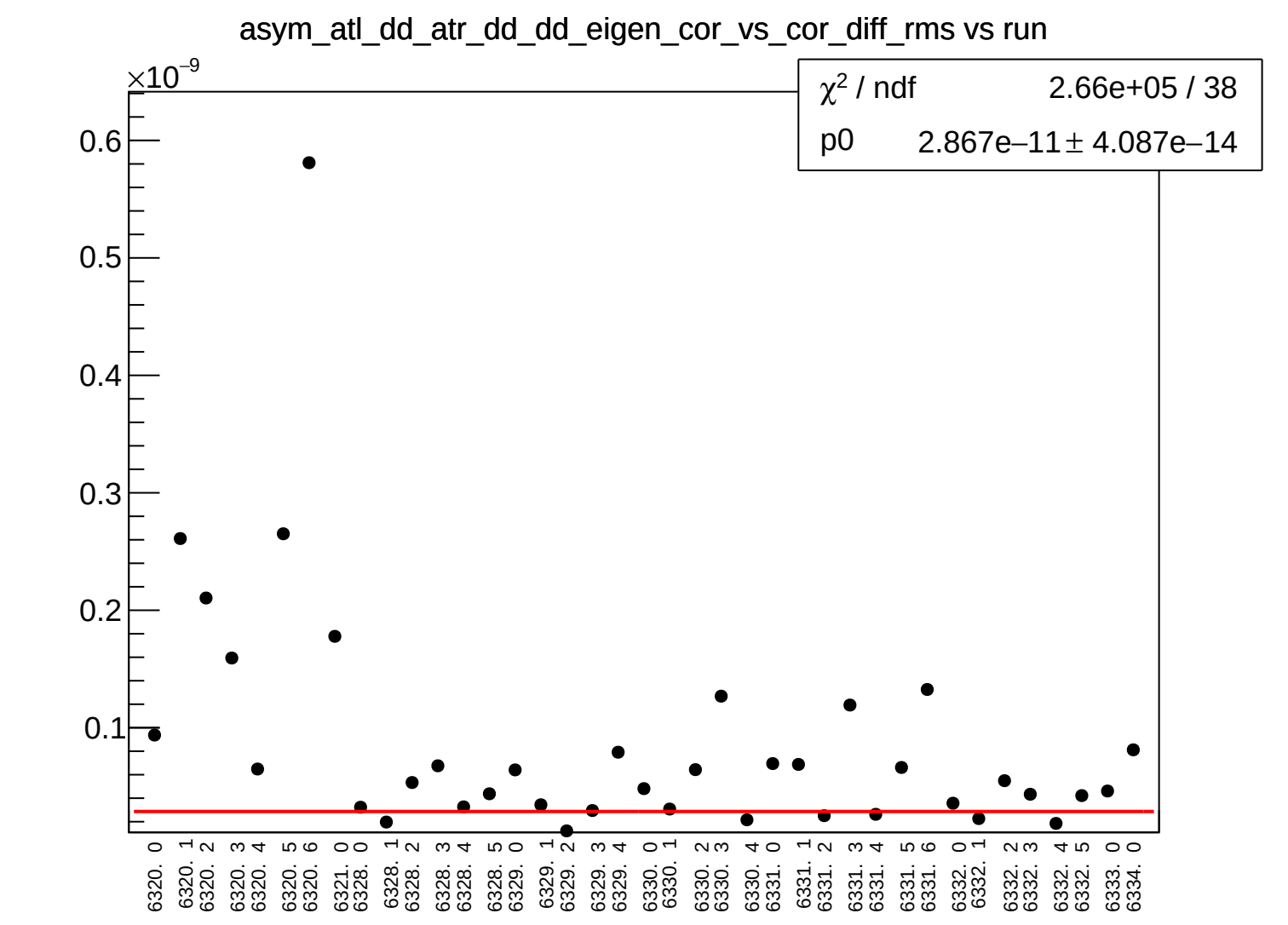

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.188e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

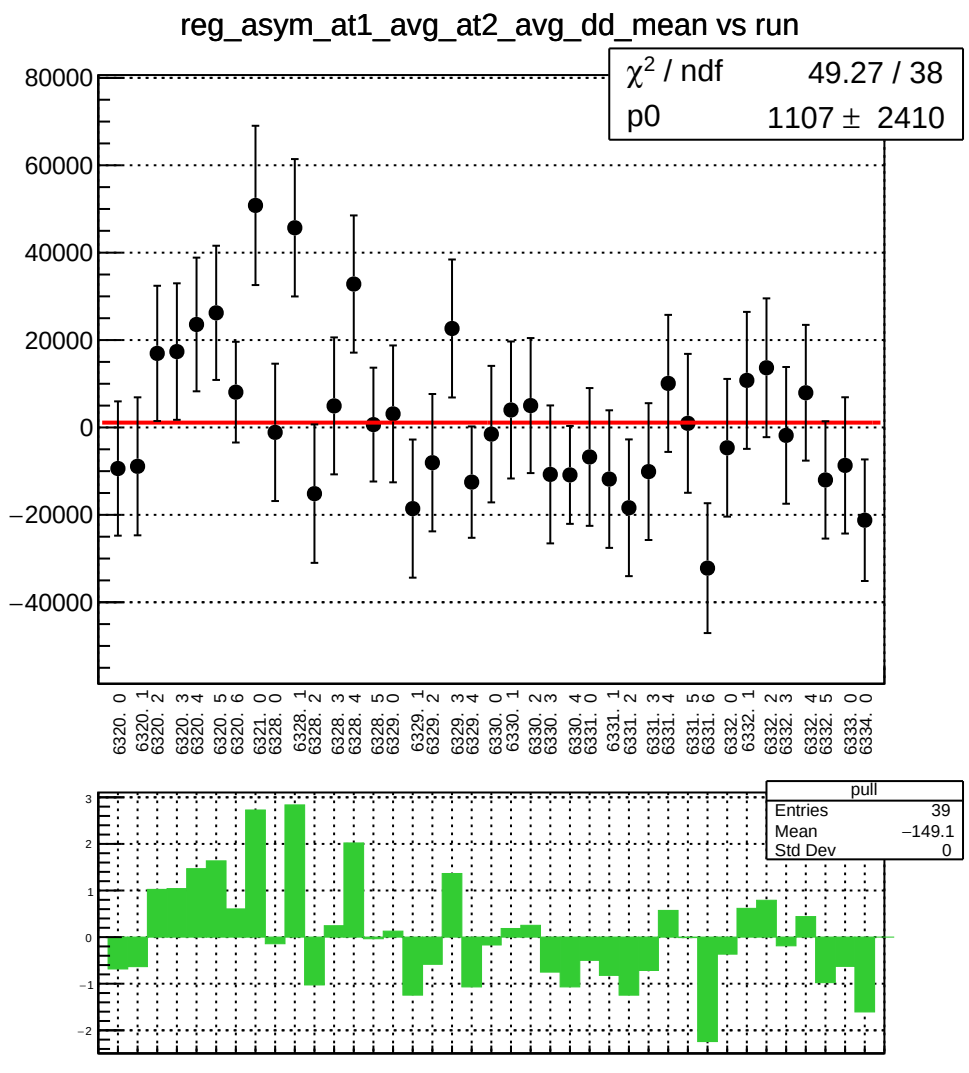

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.56
Std Dev 11.19
pull1D
Entries 39
Mean 0.09284
Std Dev 1.011


asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.188e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.99 / 38
p0 2.657e−14 ± 5.78e−14
pull
Entries 39
Mean 35.96
Std Dev 0


pull1D
Entries 39
Mean 0.04753
Std Dev 1.131


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.66e+05 / 38
p0 2.867e−11 ± 4.087e−14
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
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5
4
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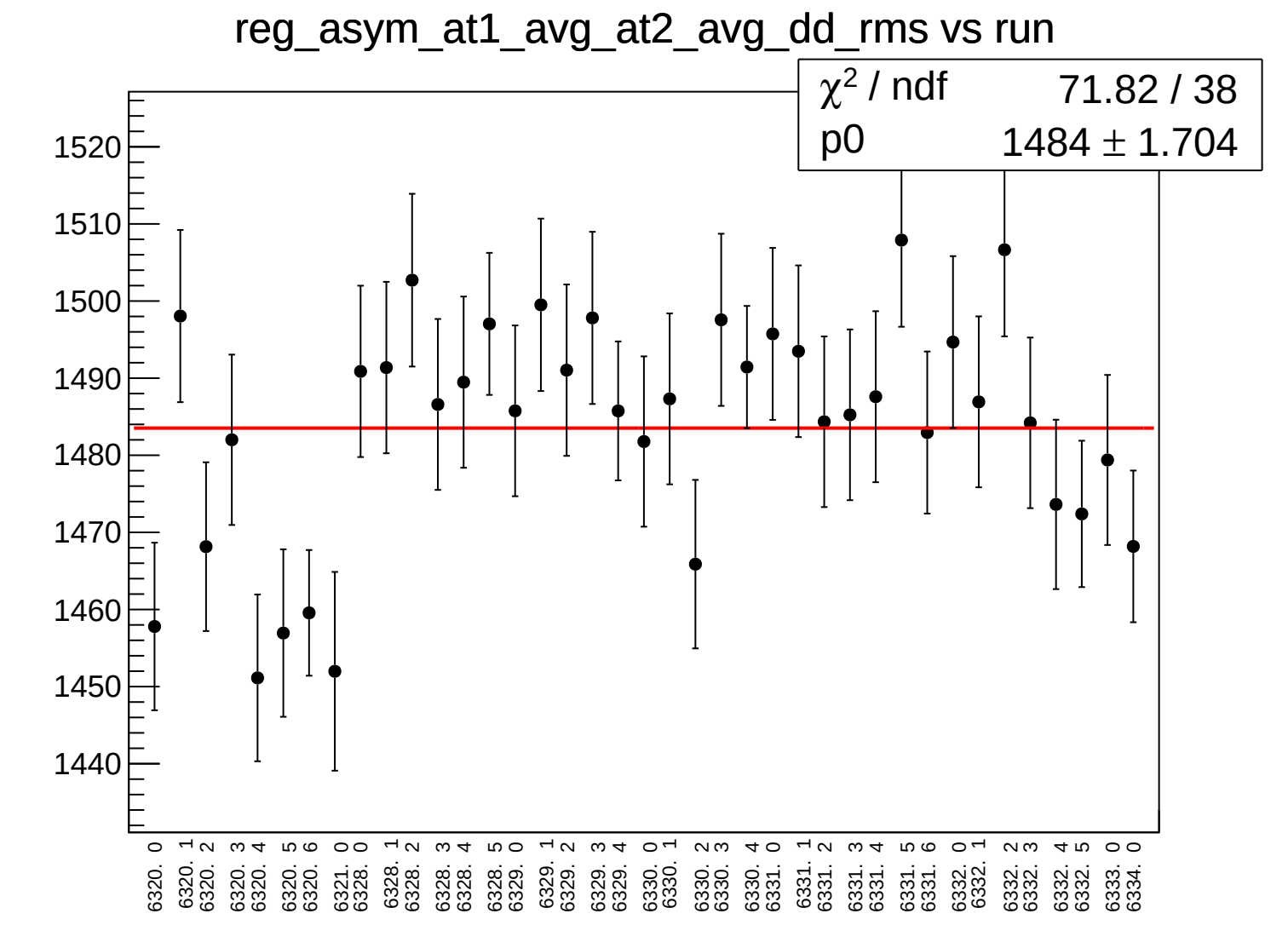
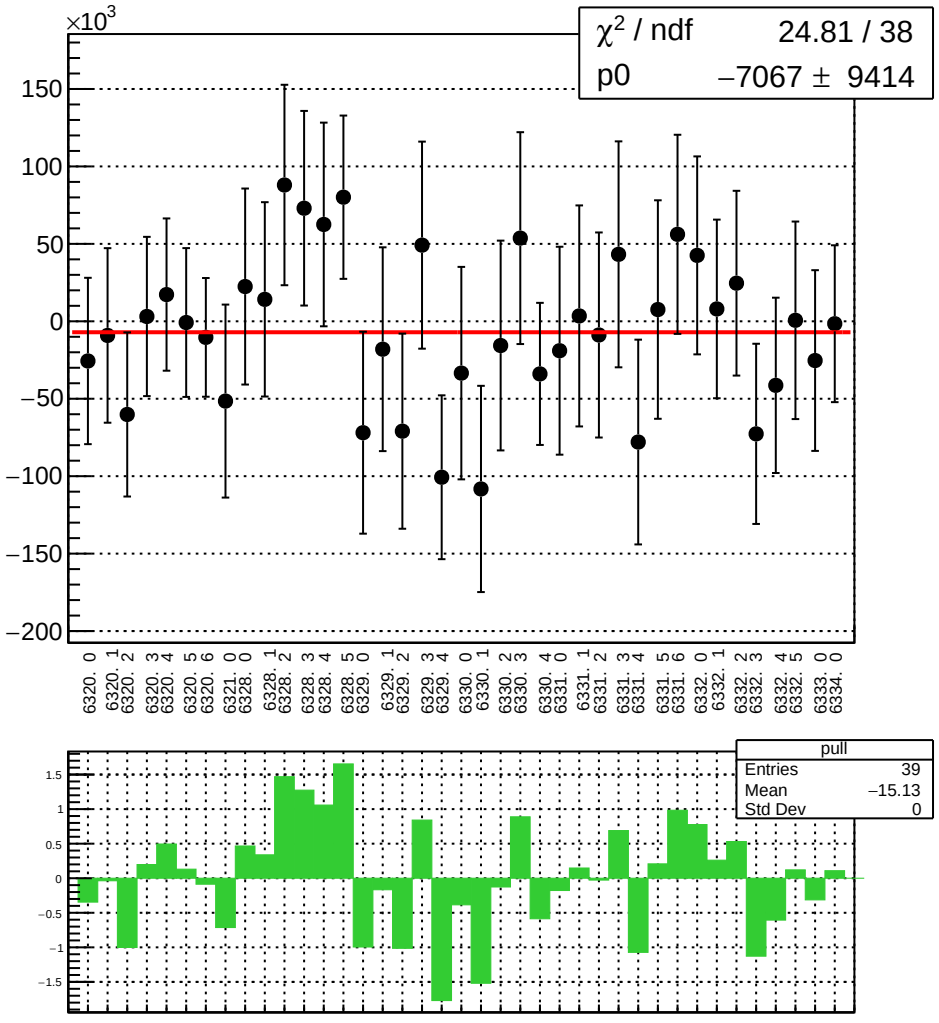
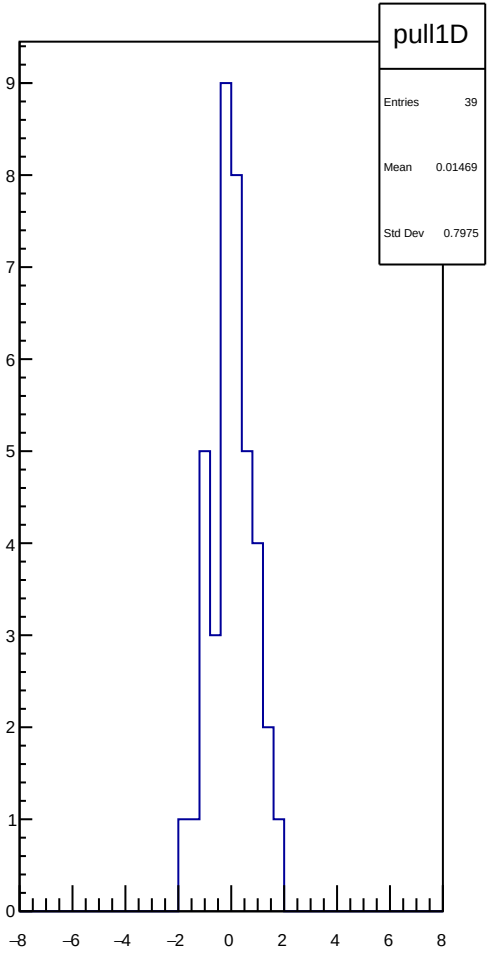
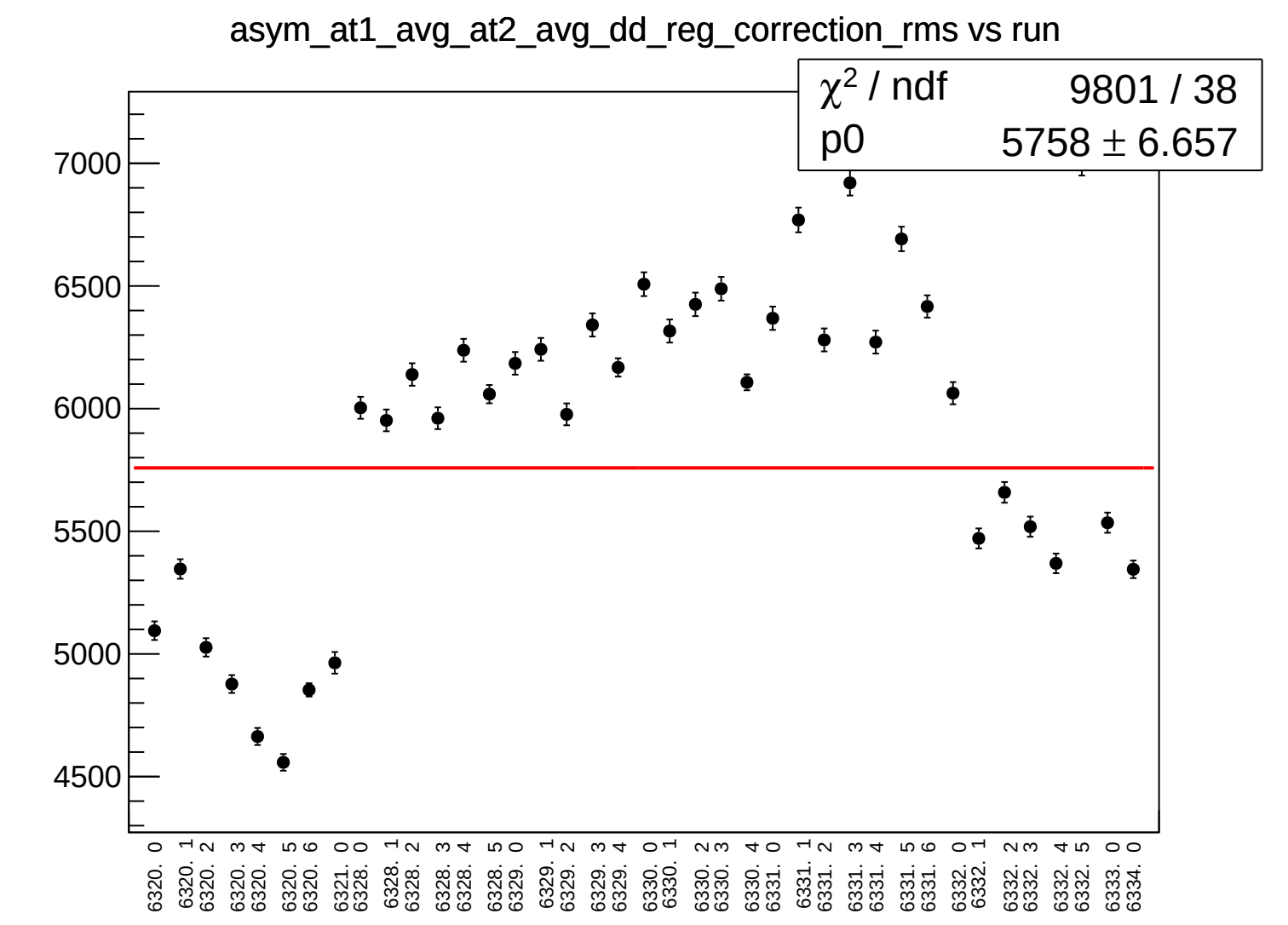
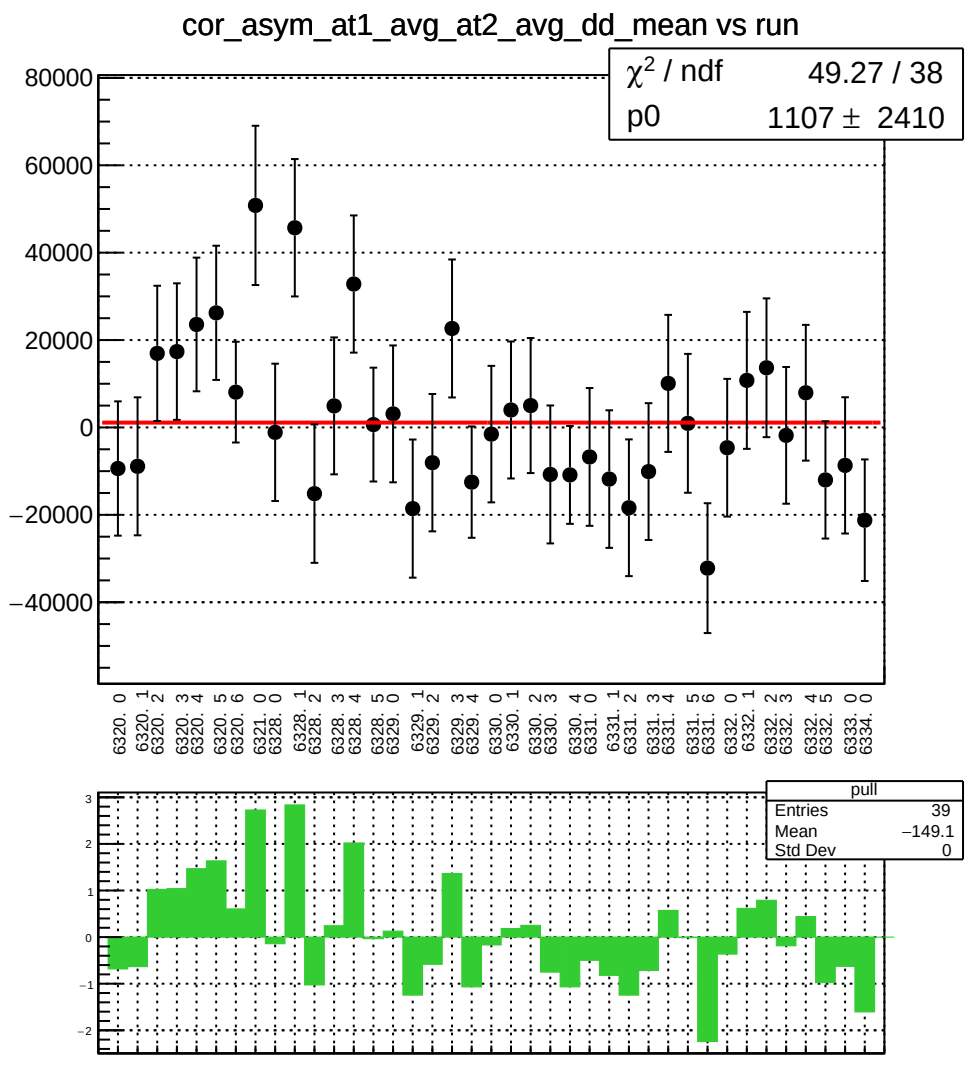
1
0
−8
−6
−4
−2
0
2
4
6
8

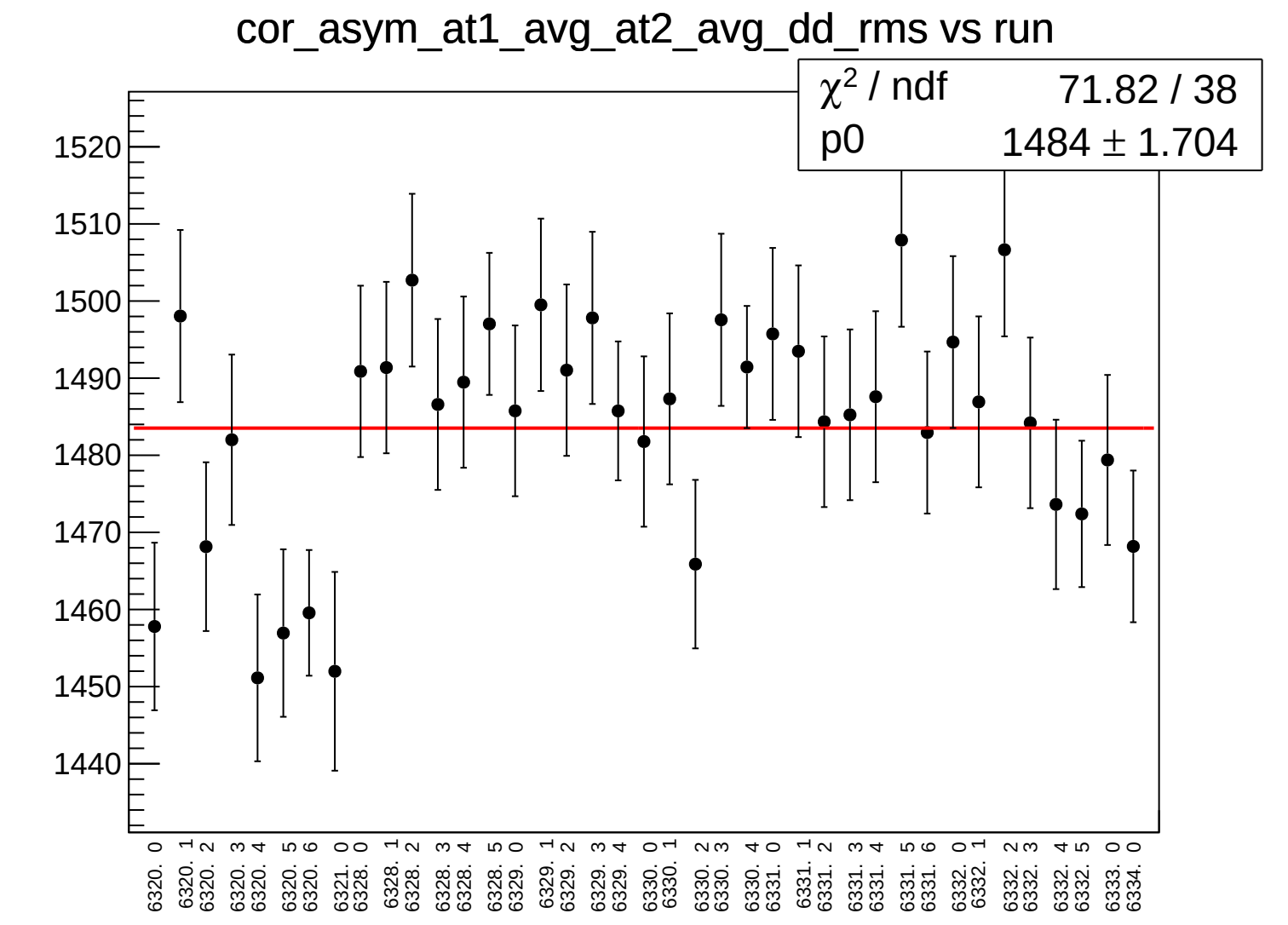

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

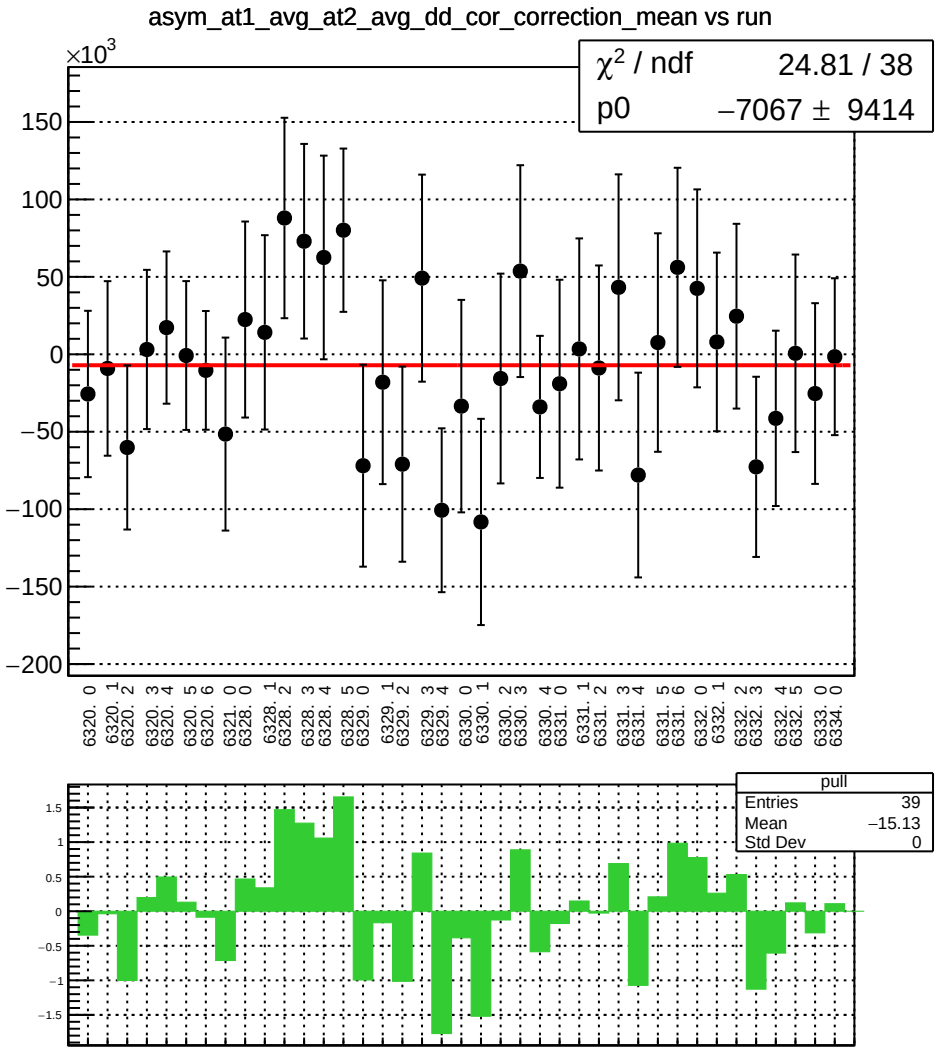

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

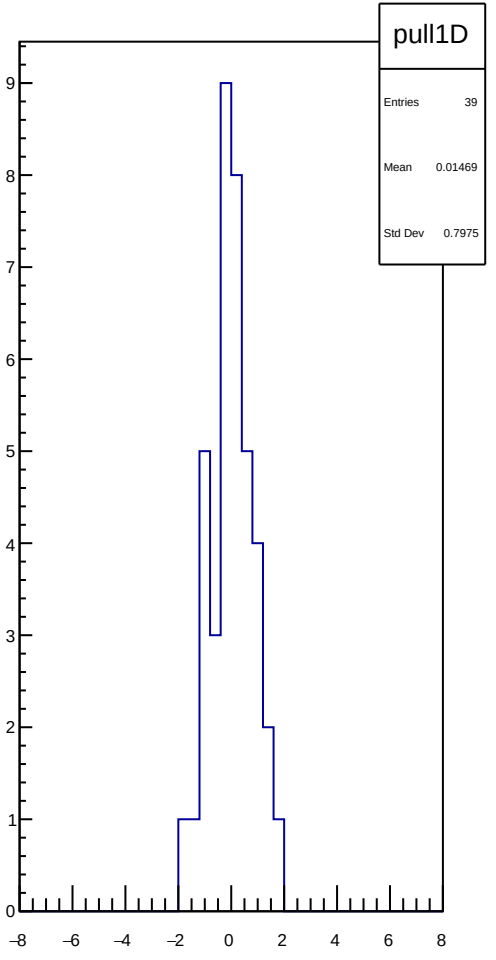

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

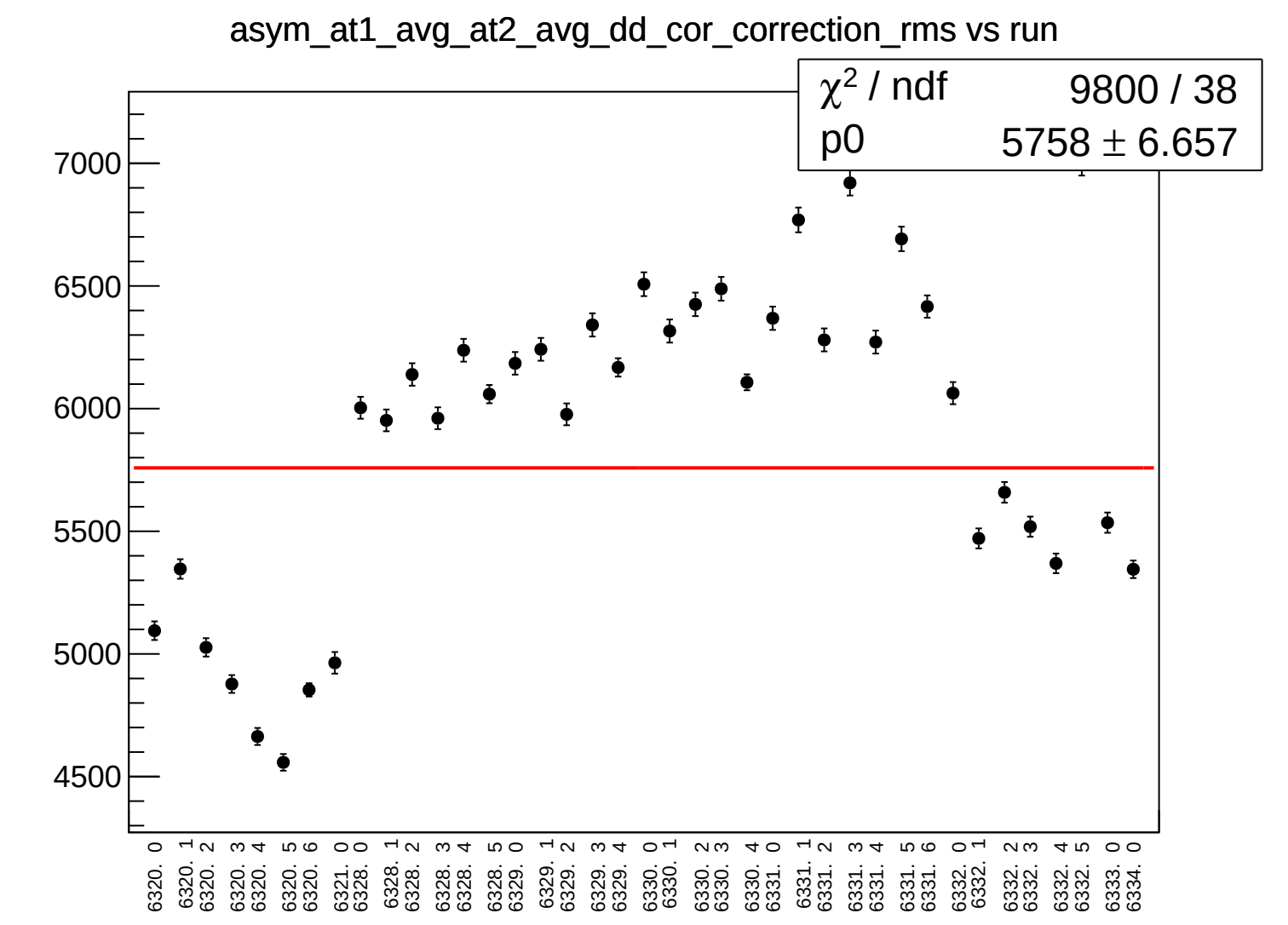

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 9801 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

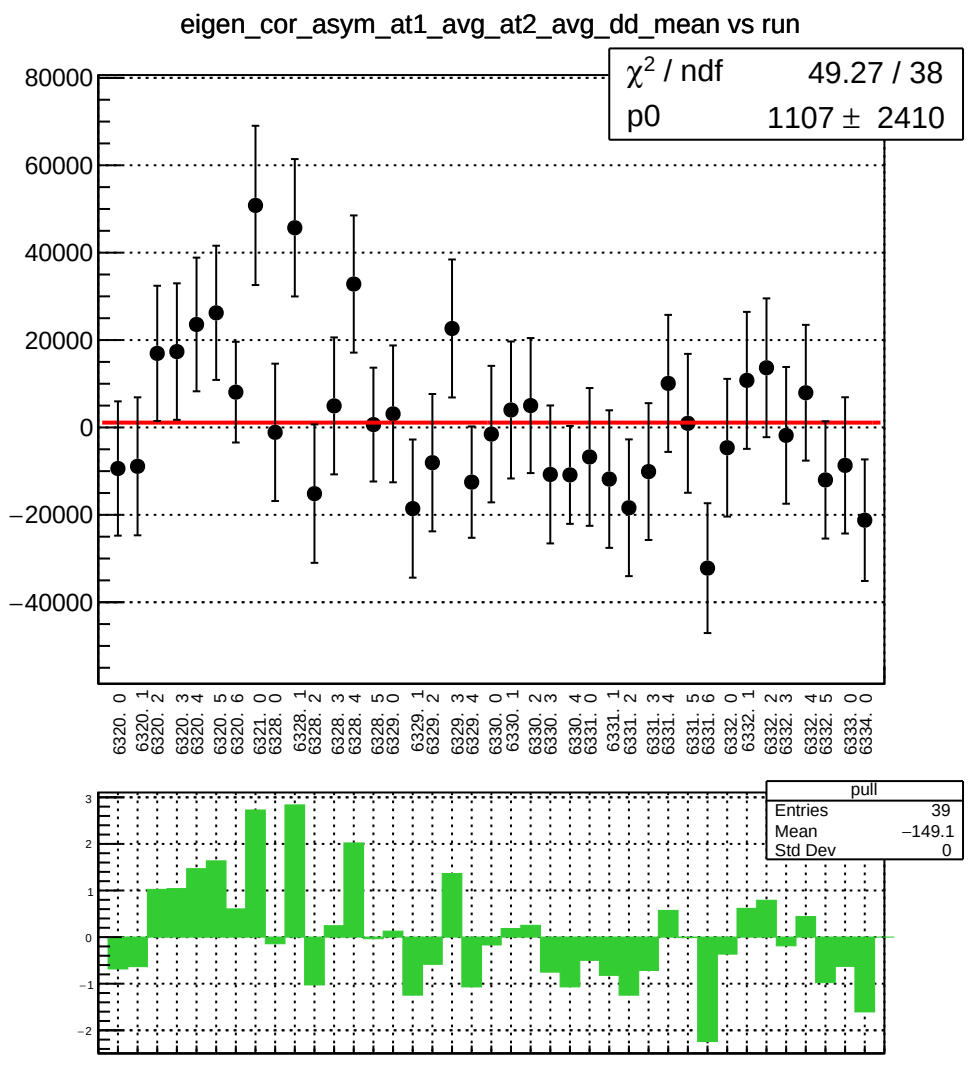

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

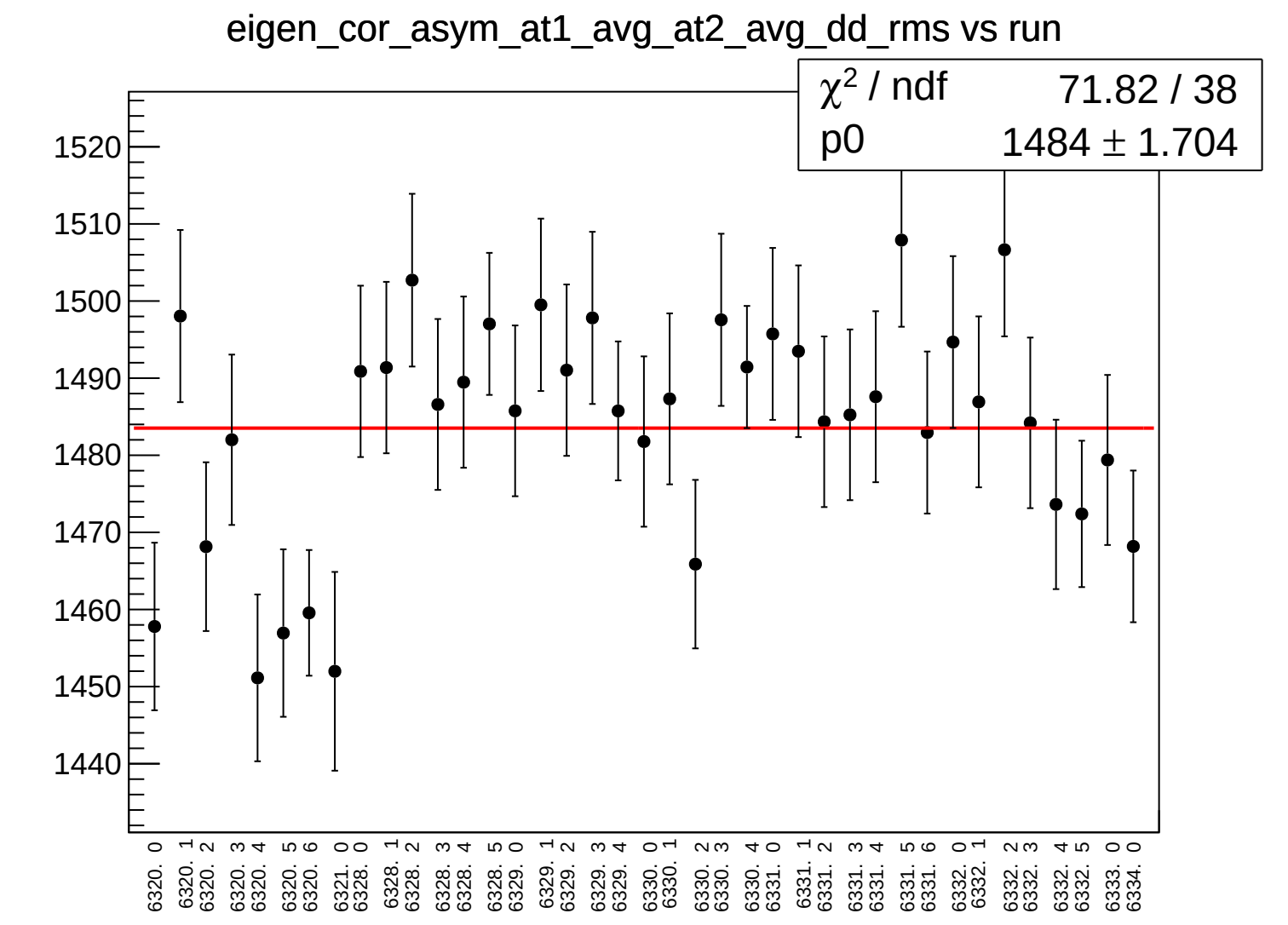

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

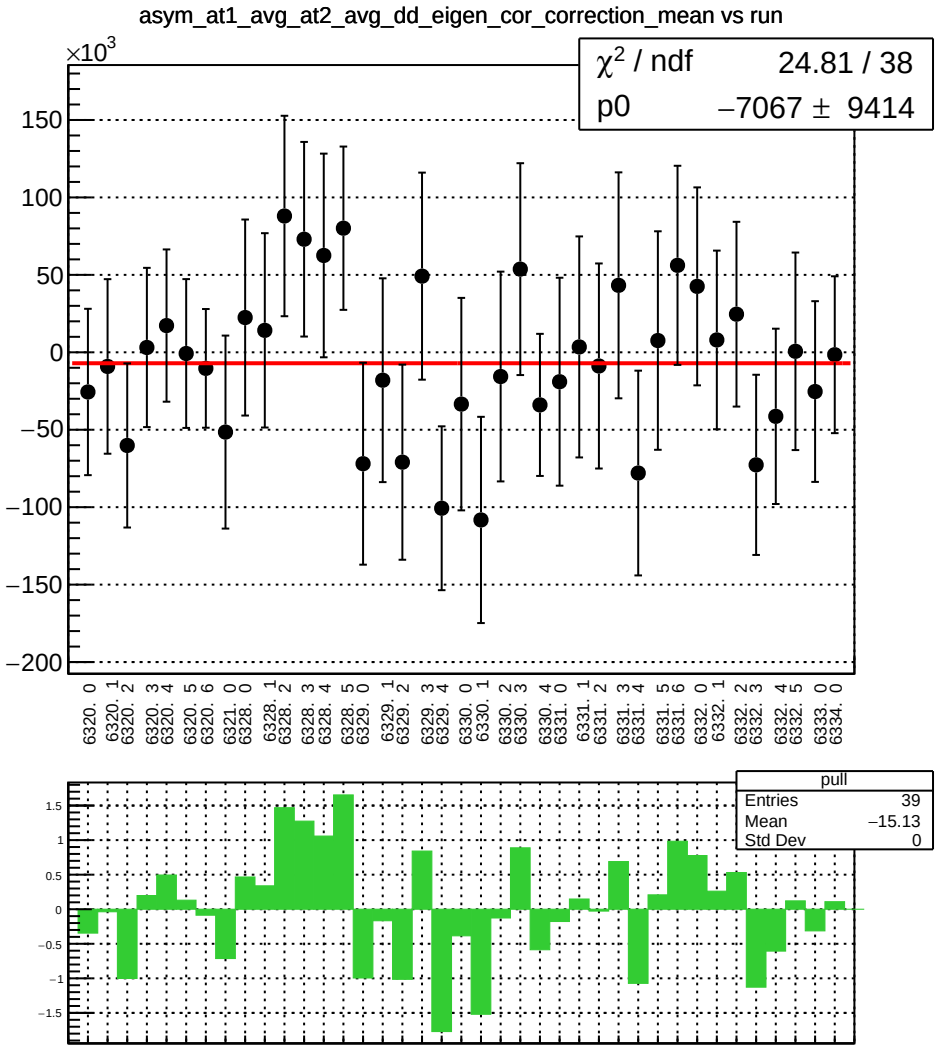

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

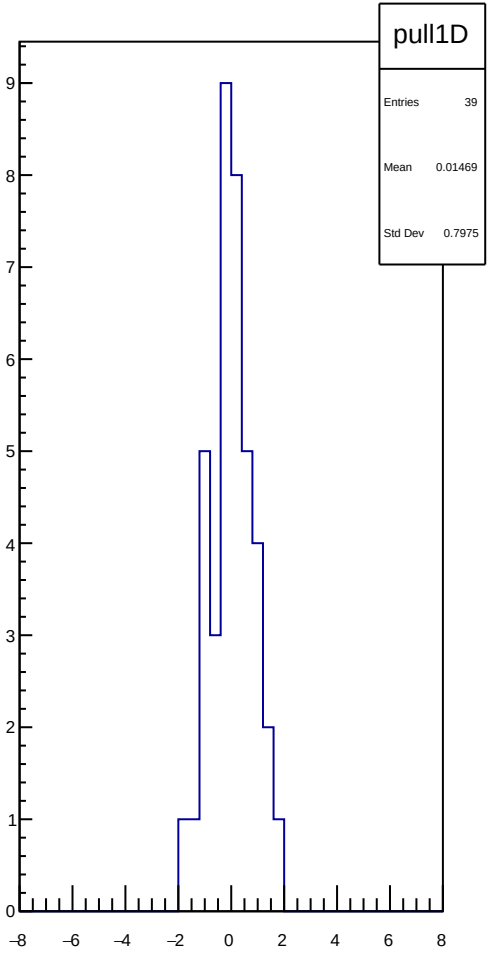

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

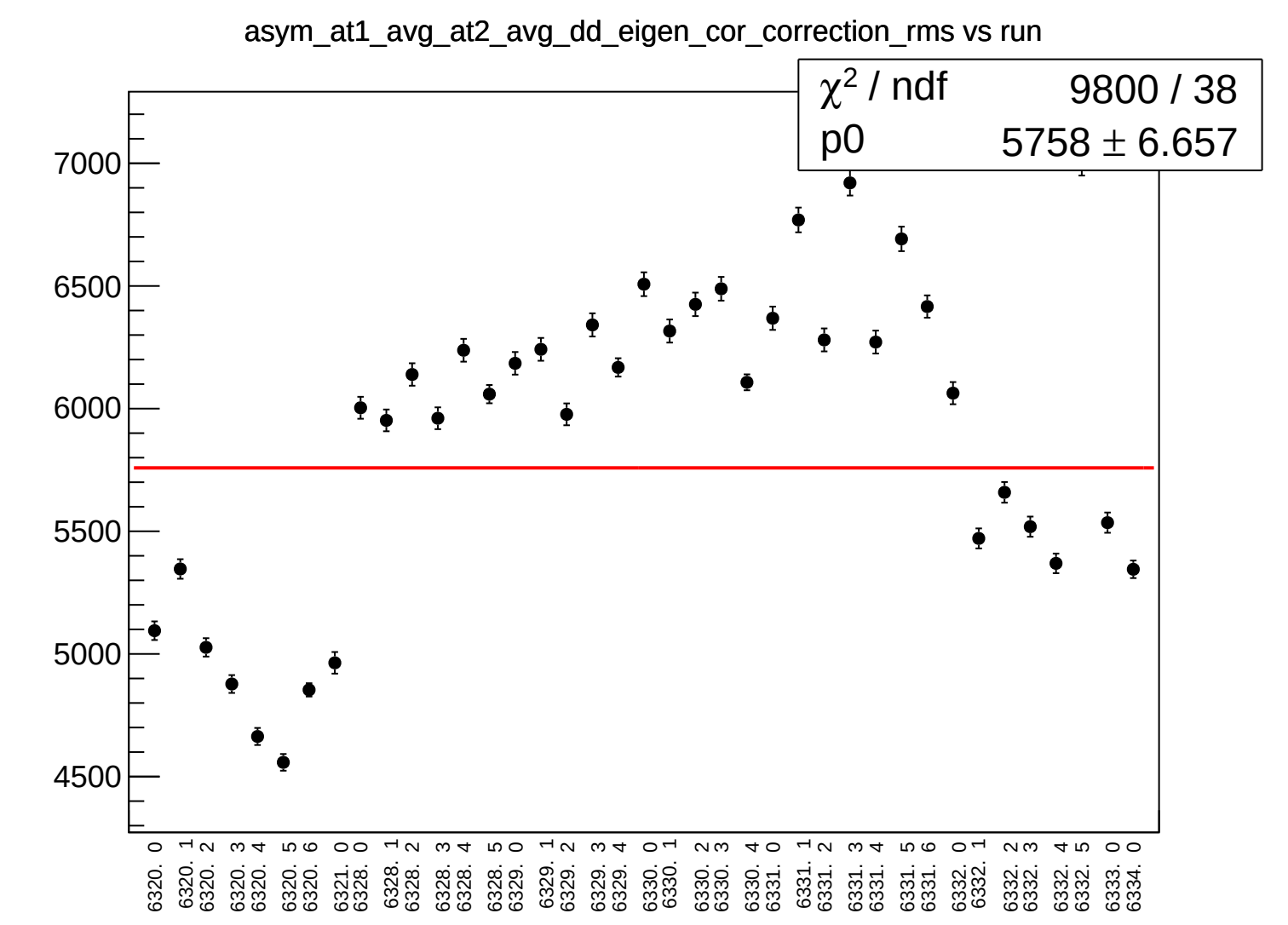

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

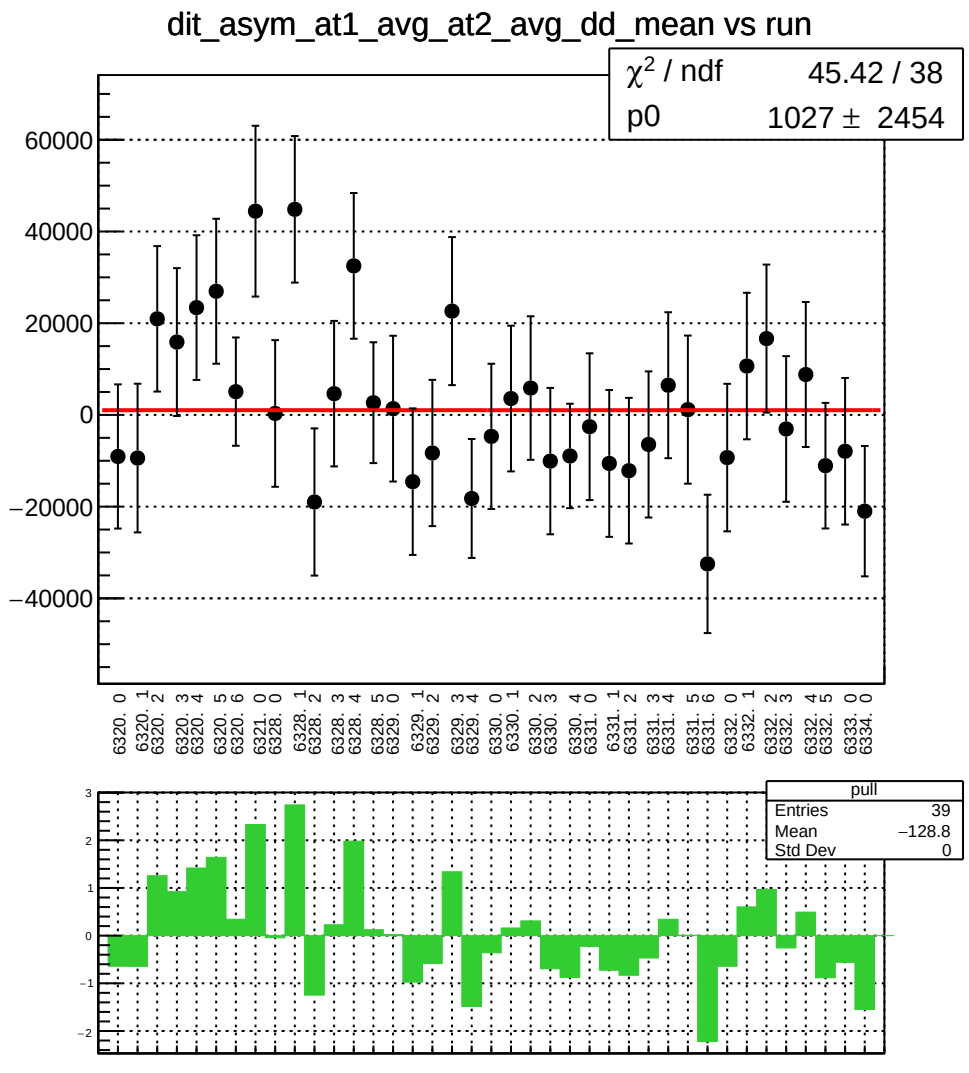

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
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_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
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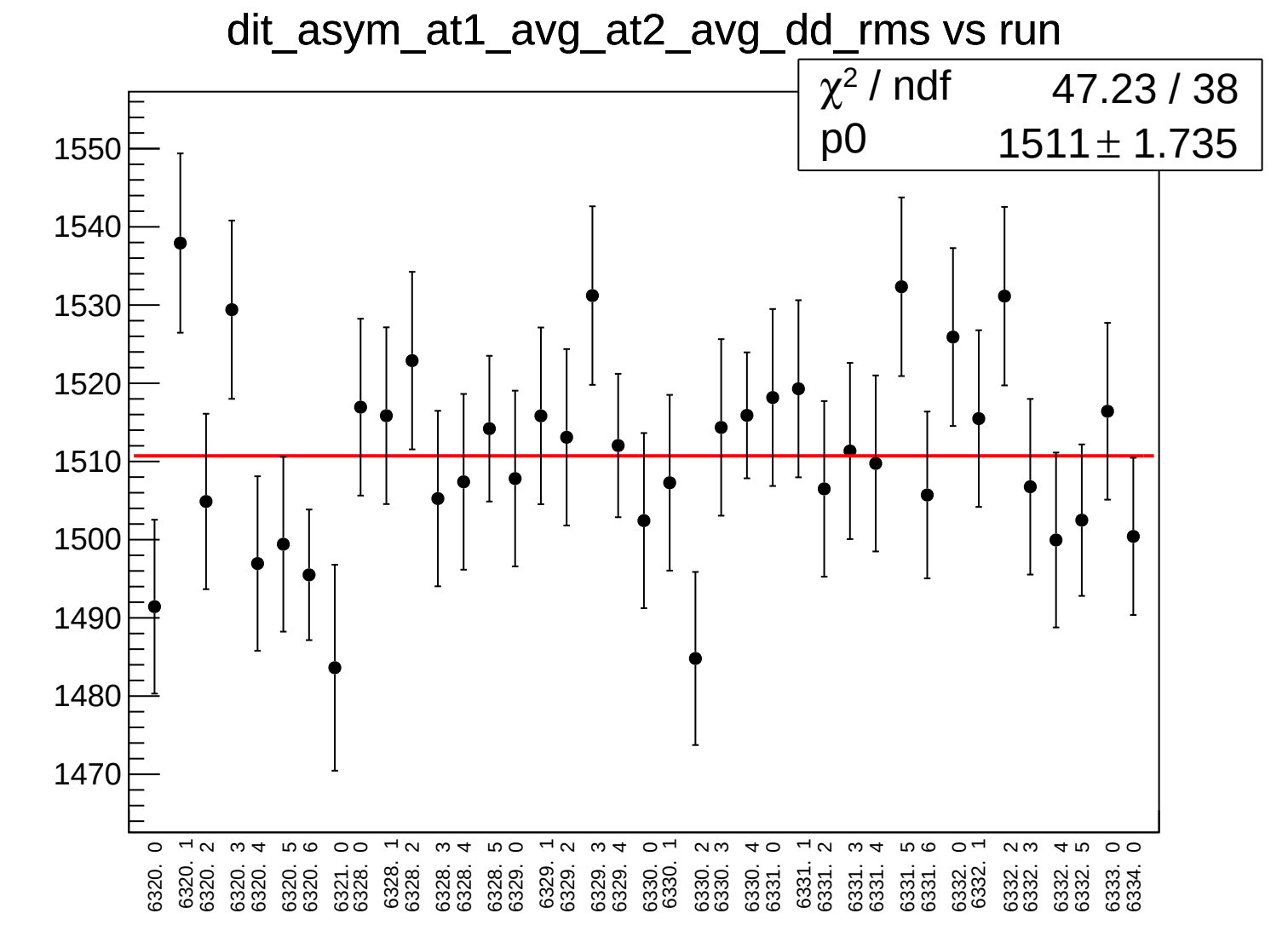
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
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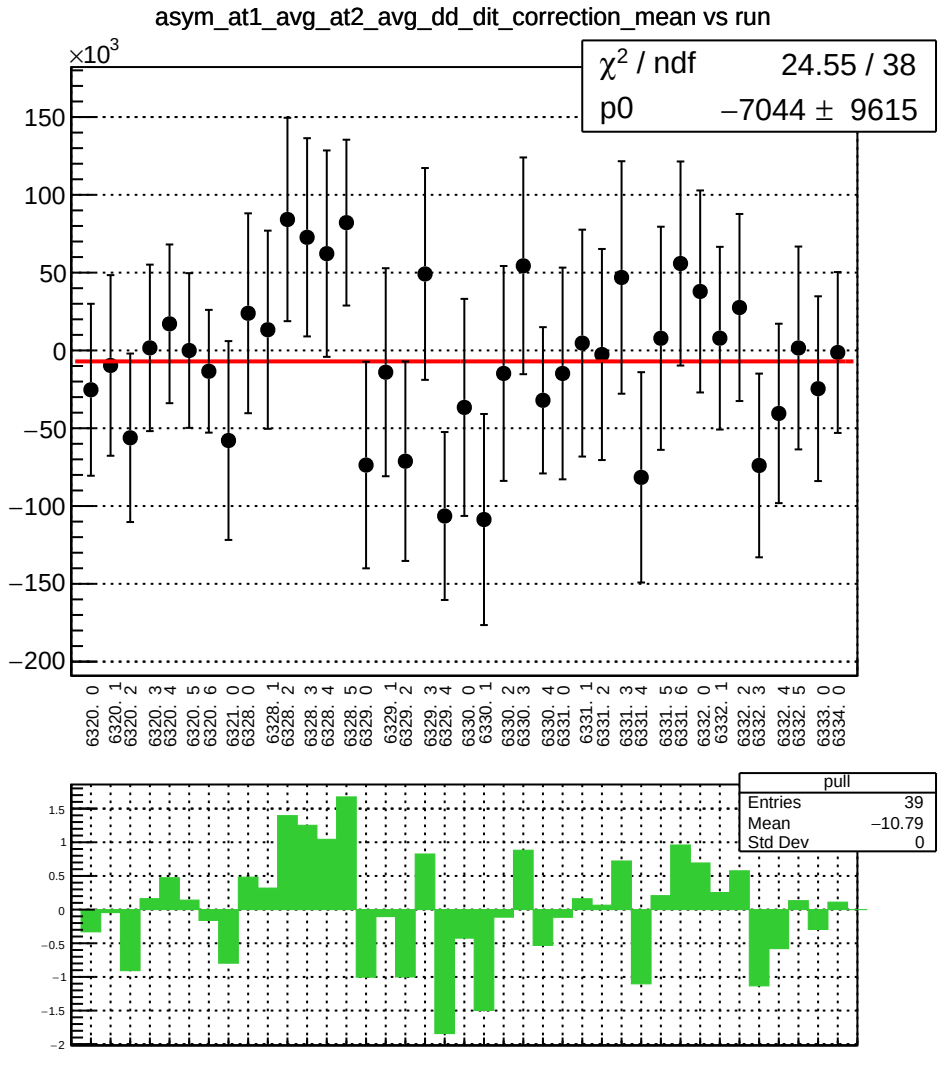
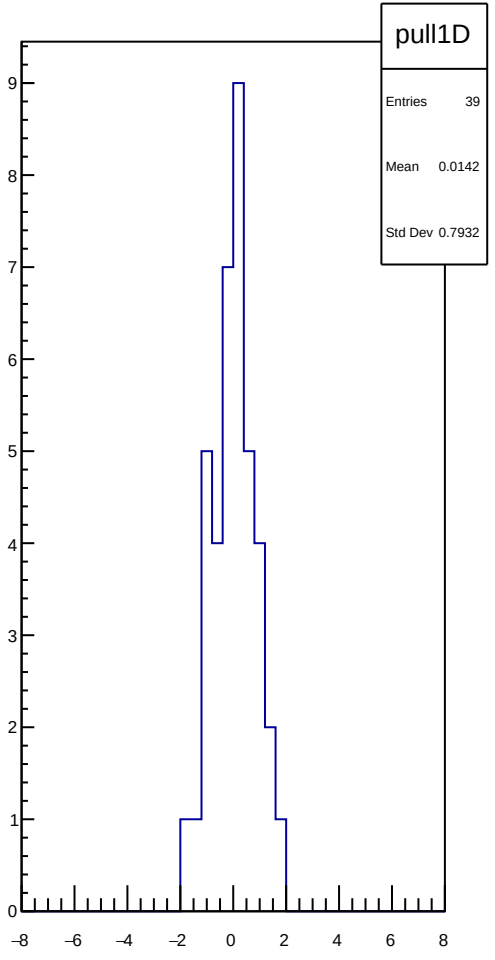
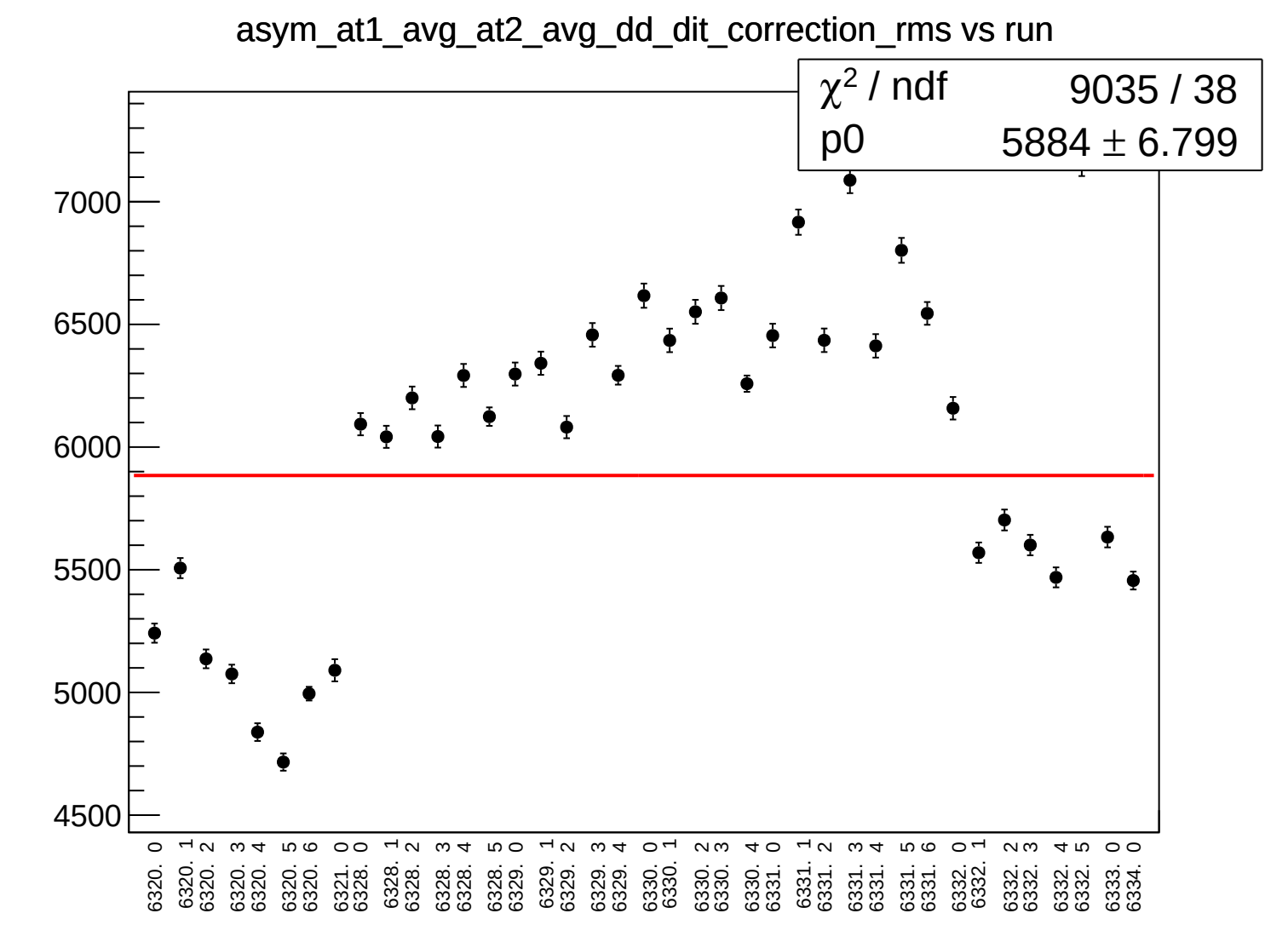
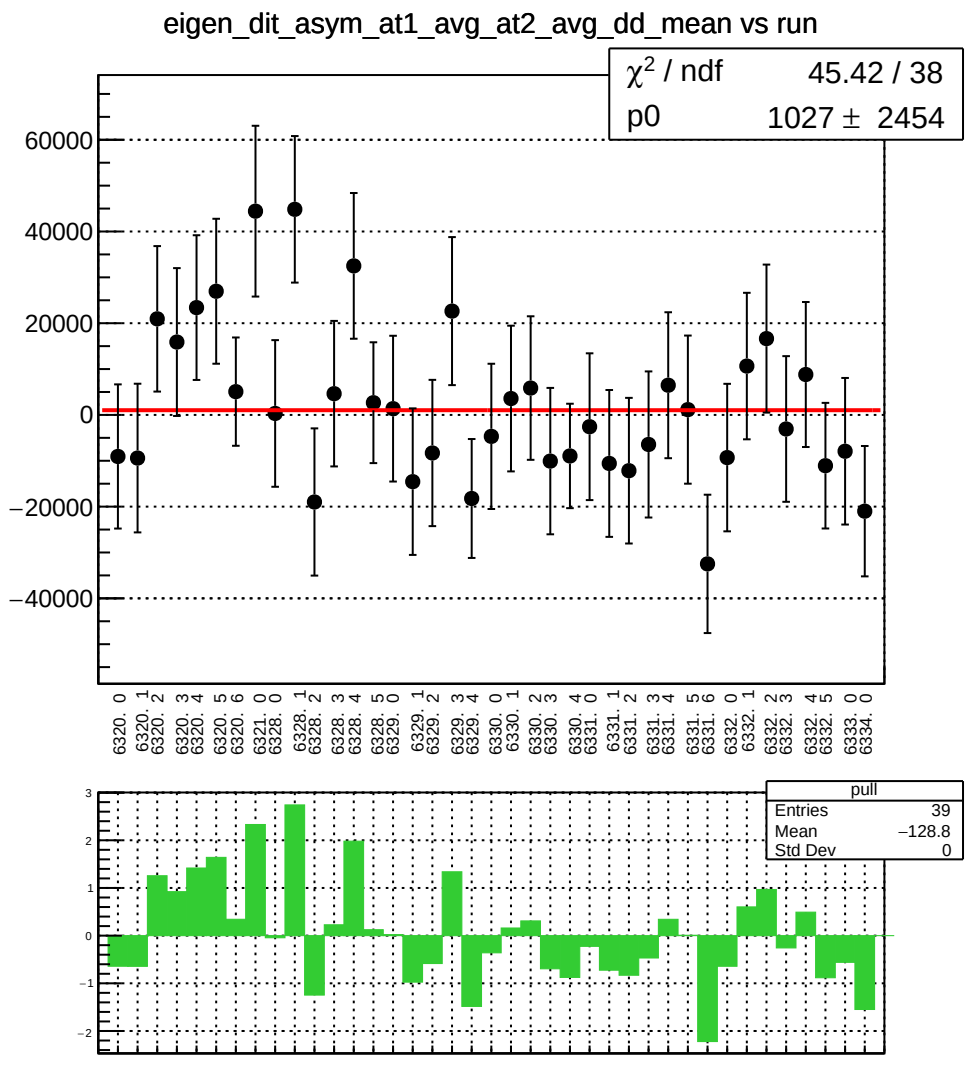
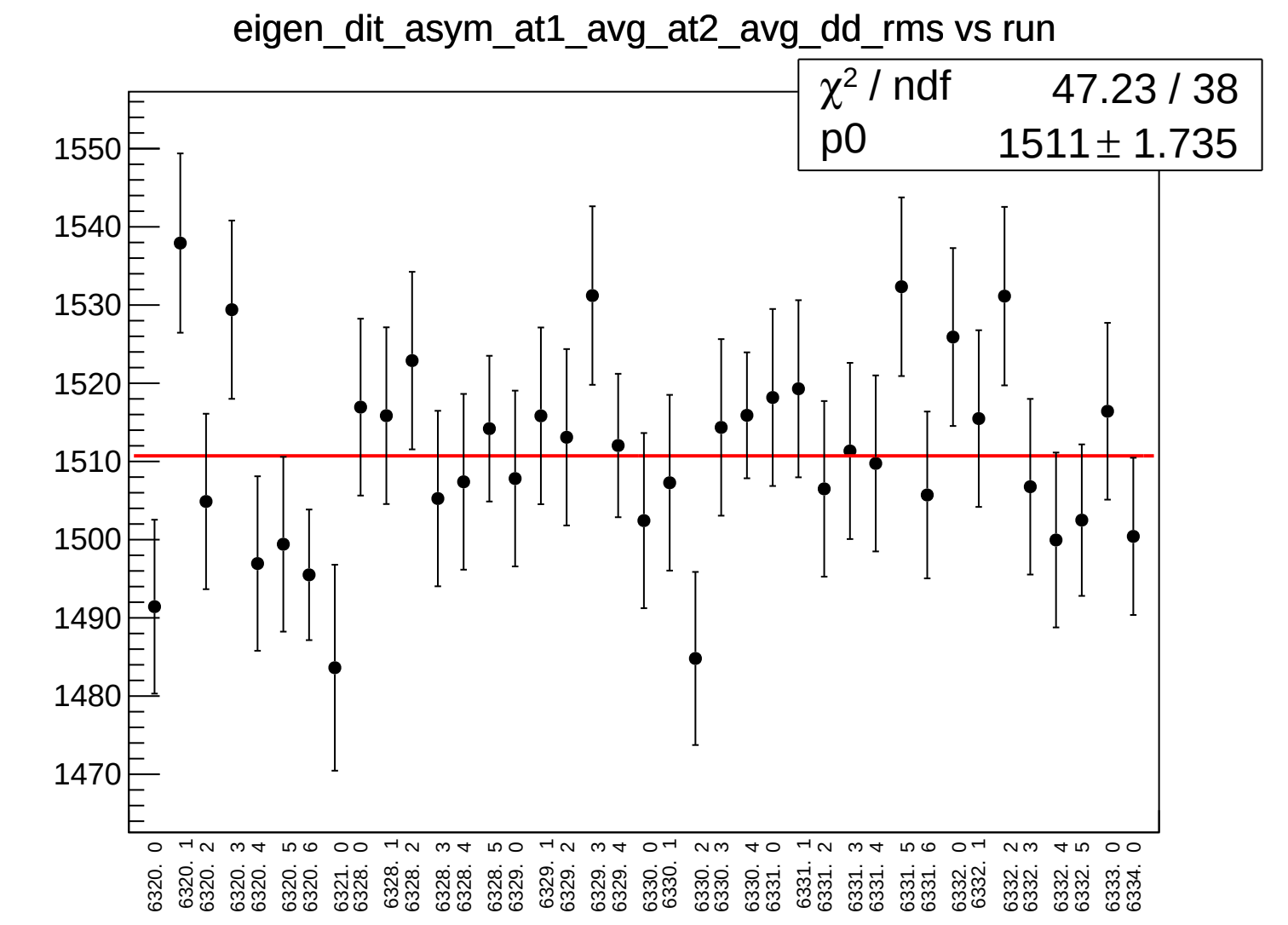
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

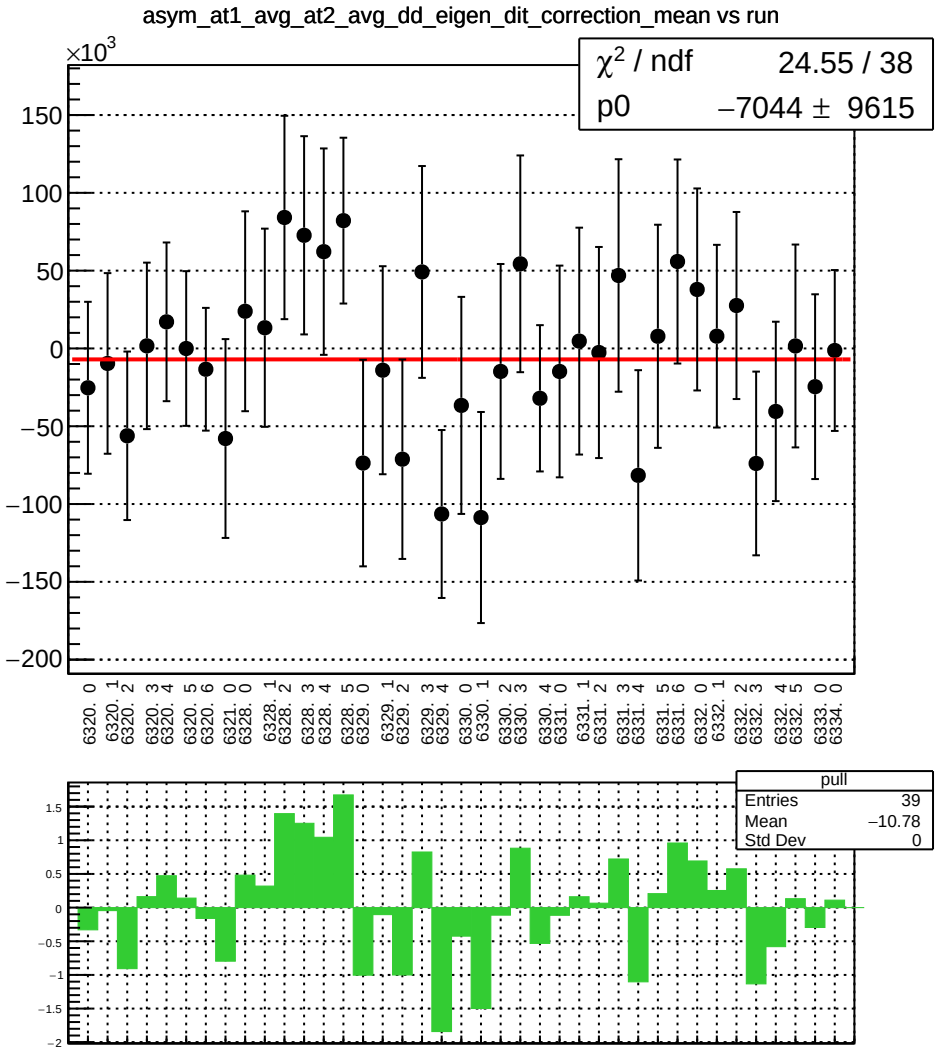

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

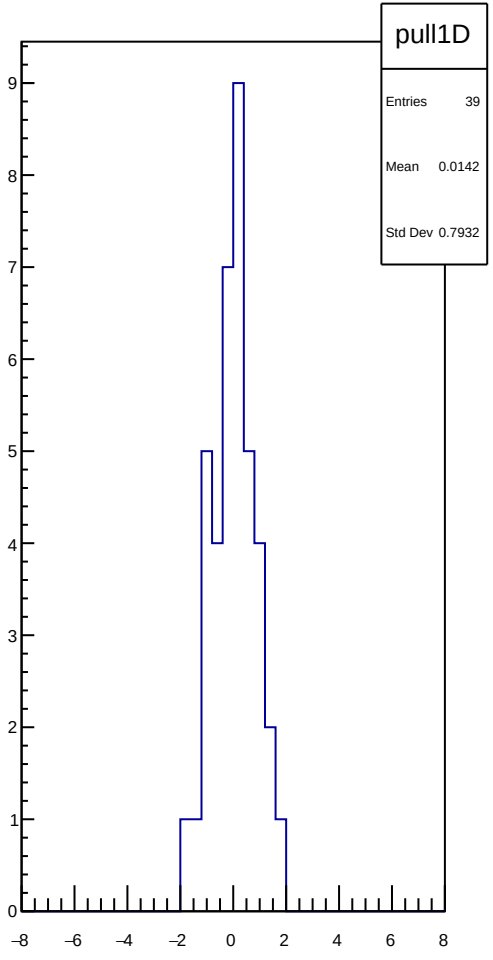

pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

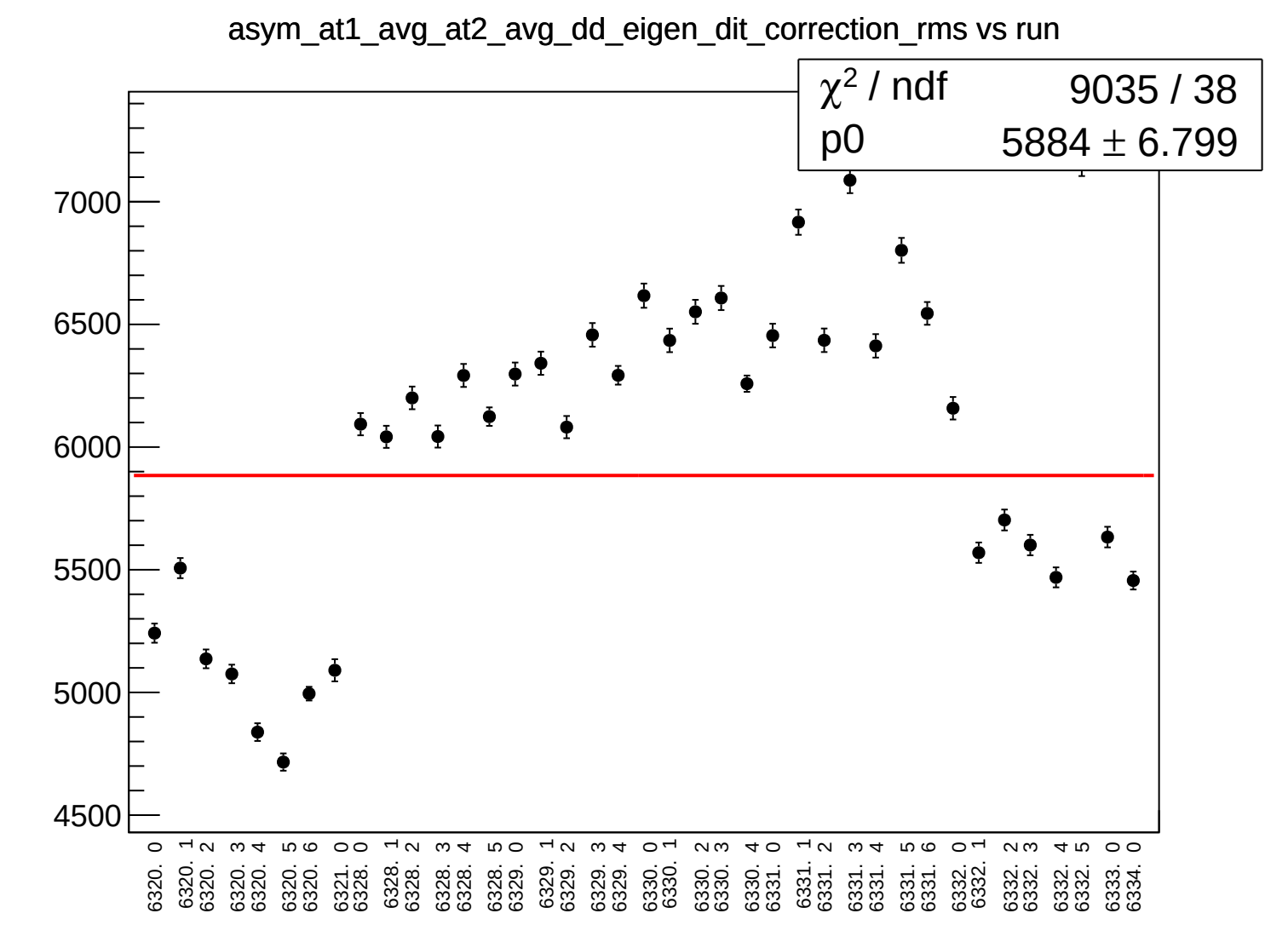

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

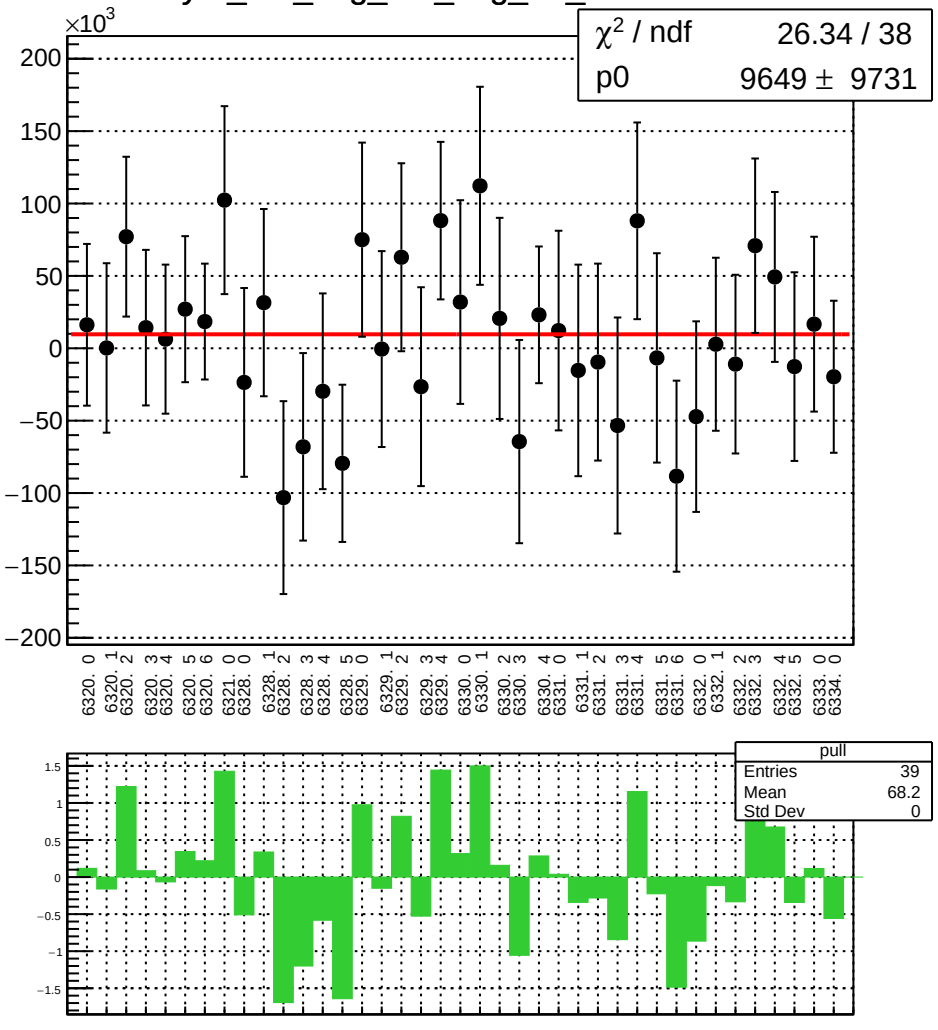

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

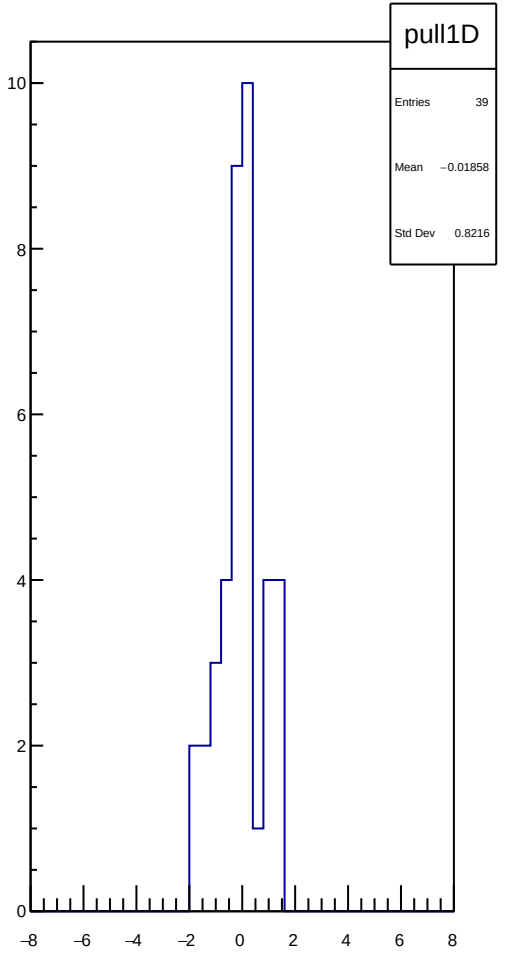

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

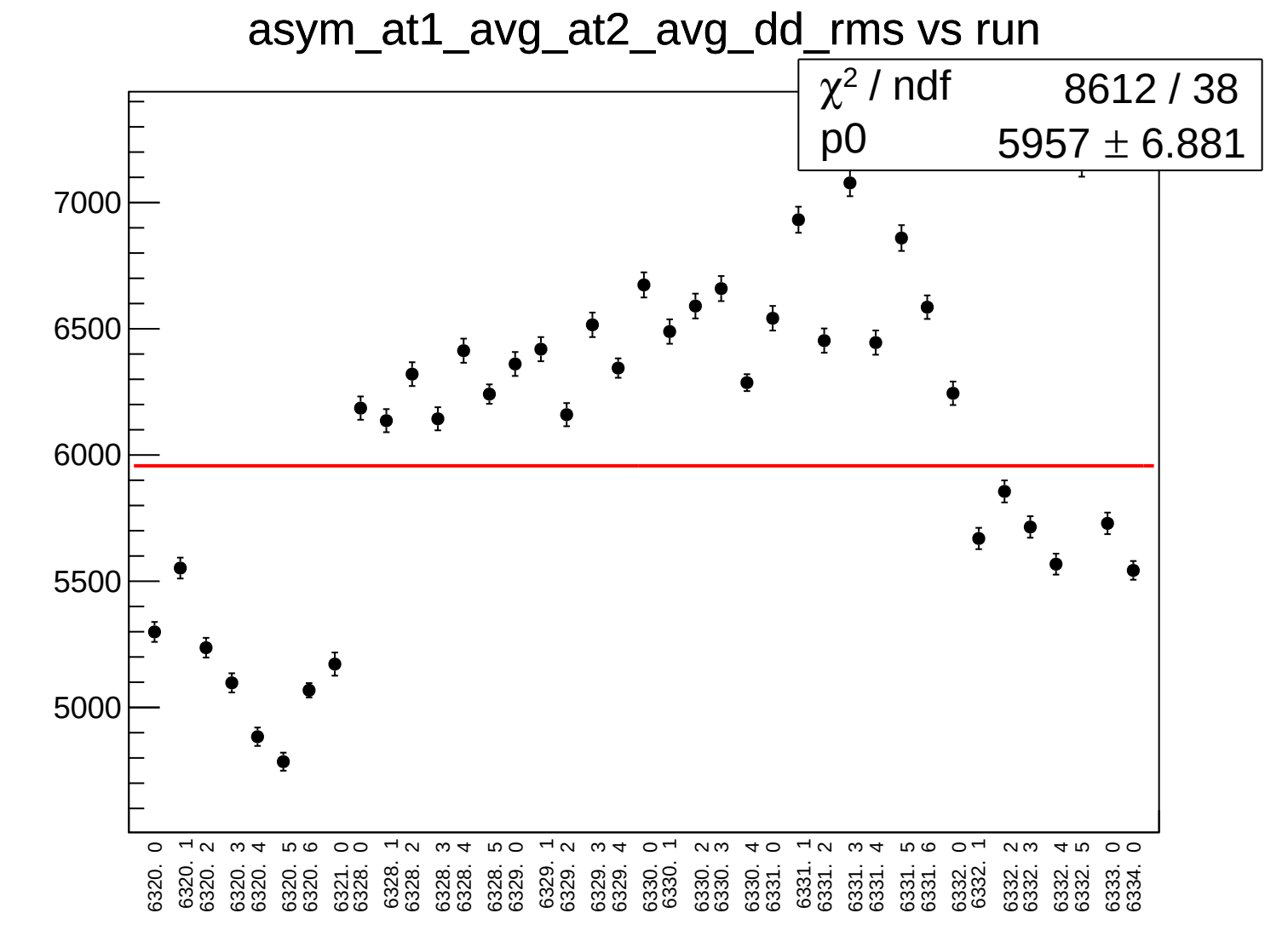

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

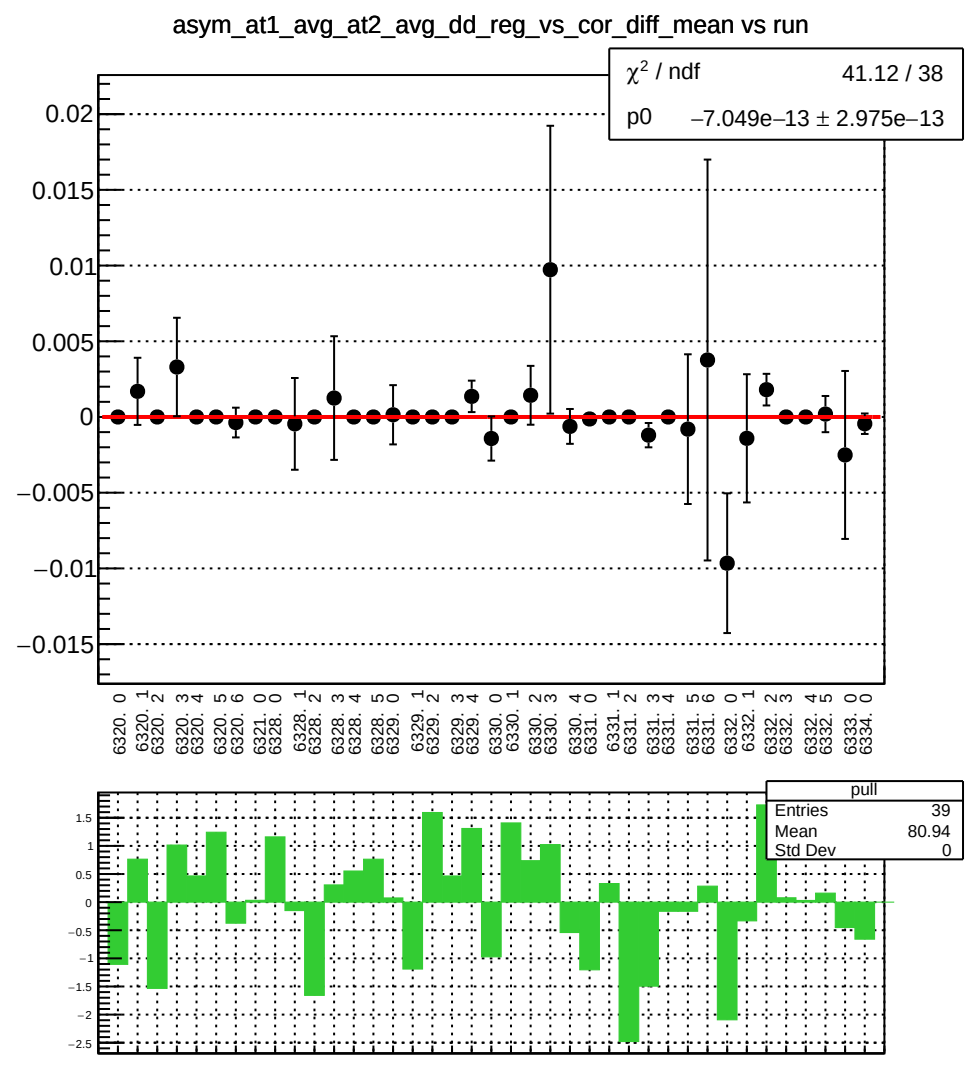

pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

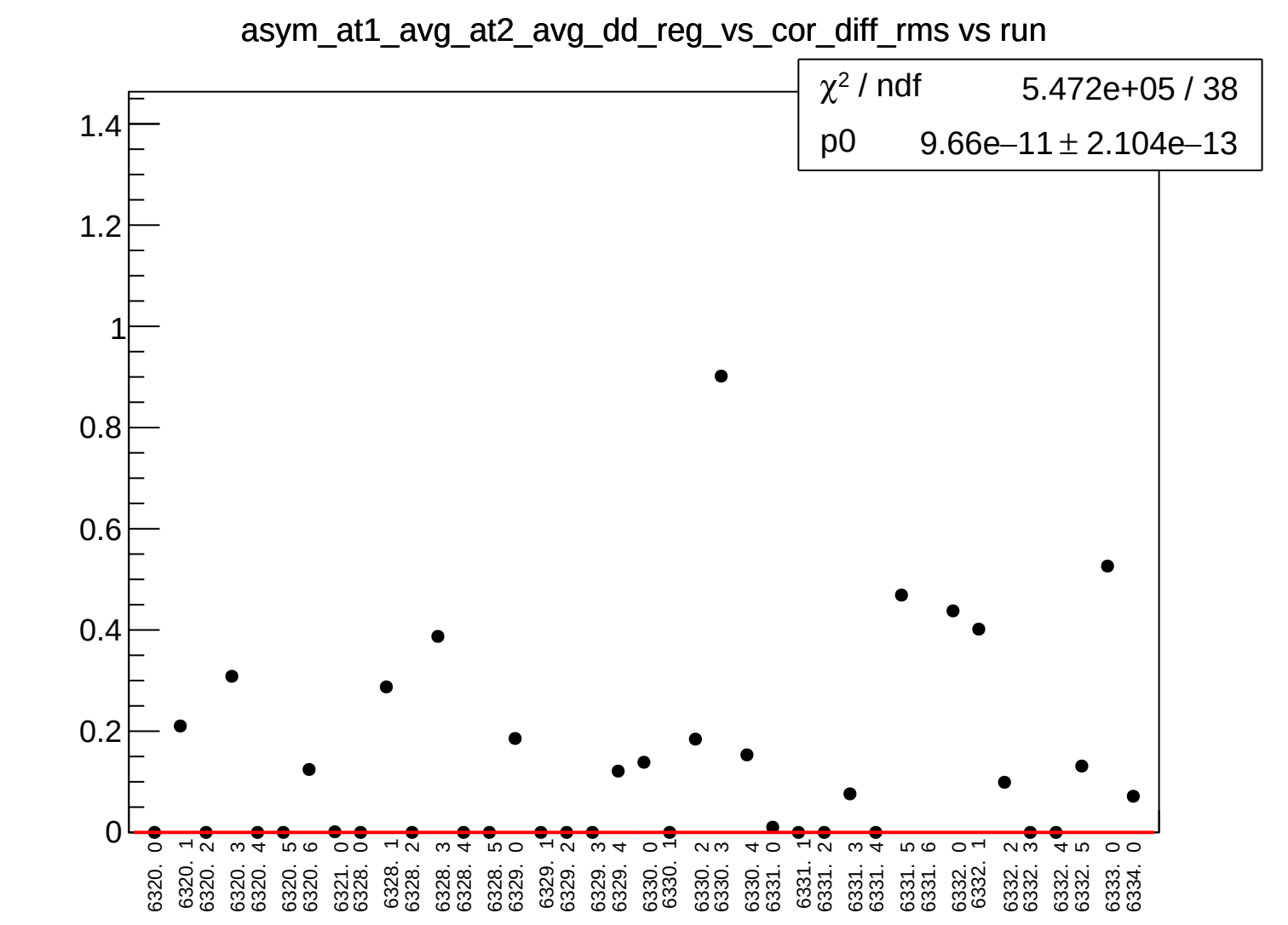

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

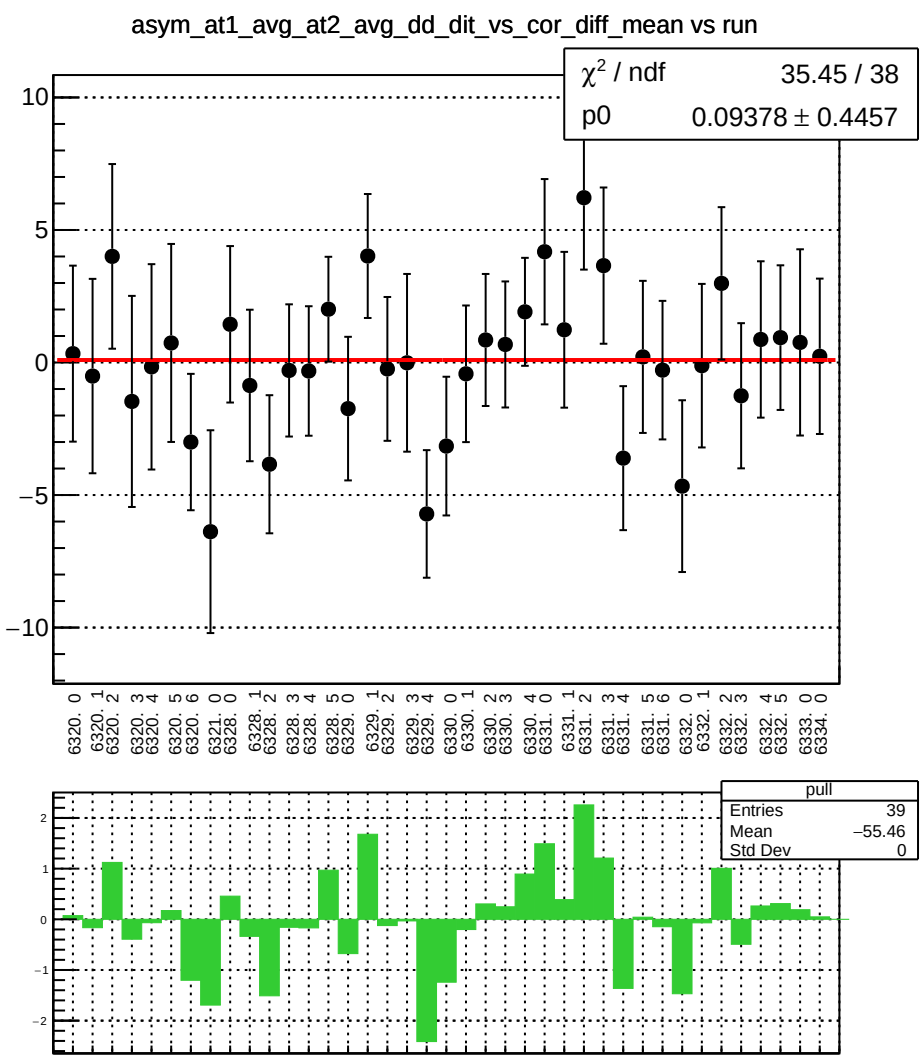

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 26.34 / 38
p0 9649 ± 9731
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

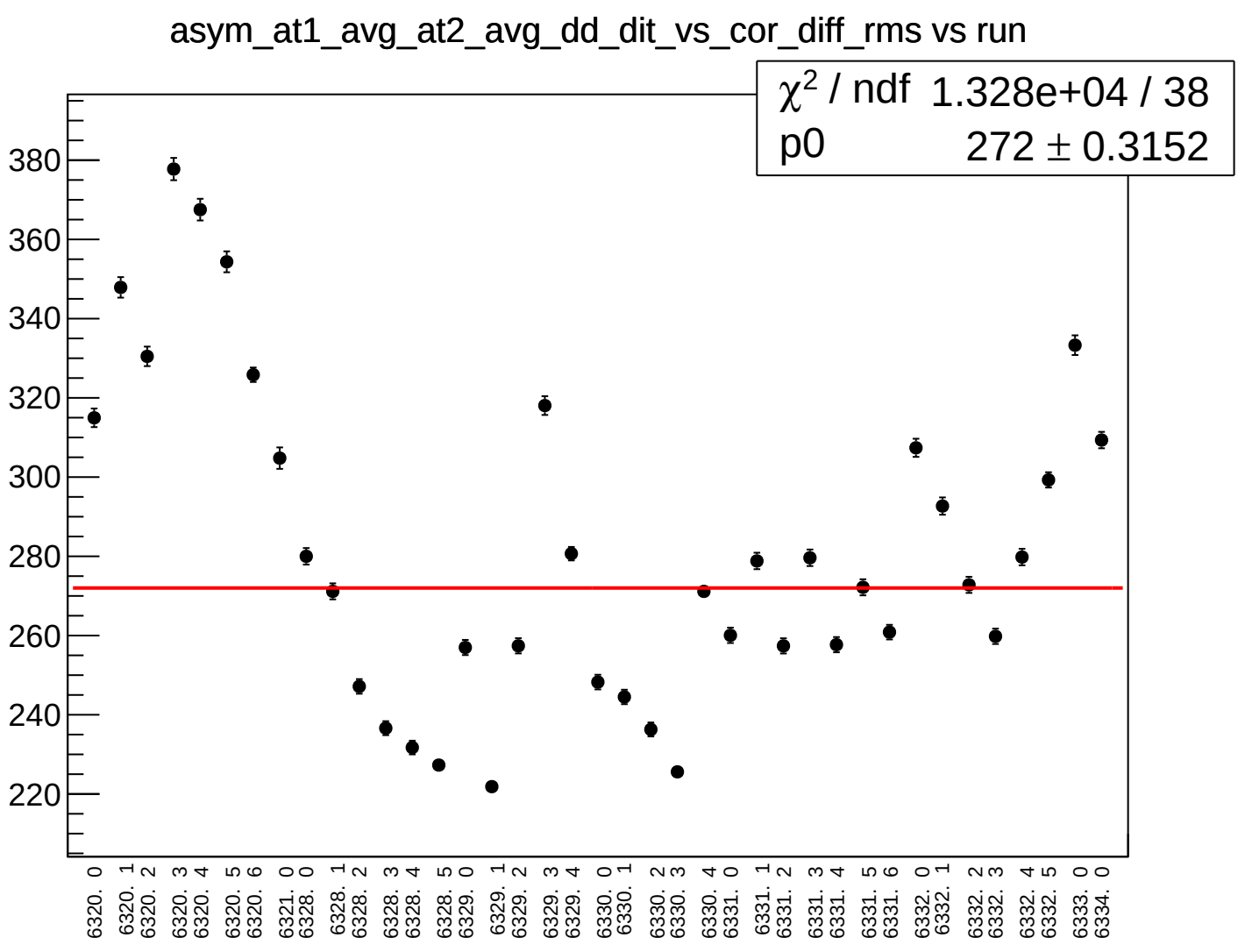

pull1D
Entries 39
Mean −0.01858
Std Dev 0.8216
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

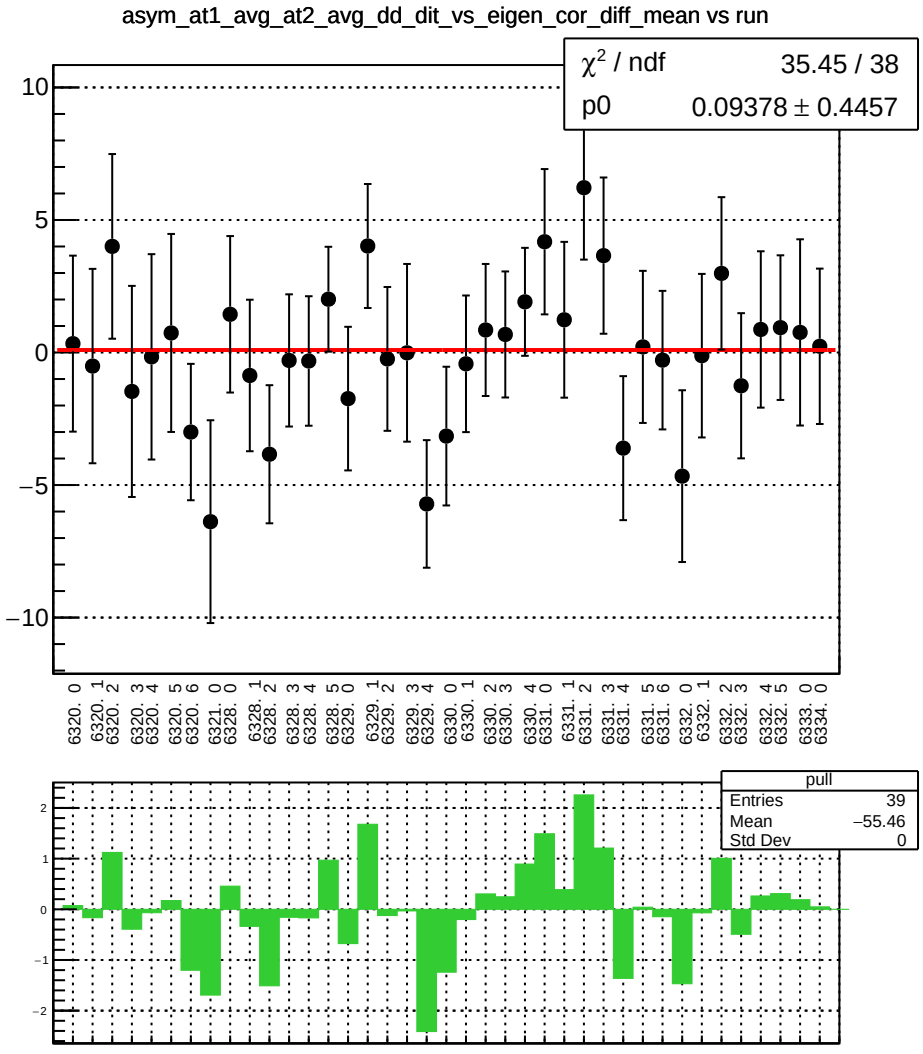

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 8612 / 38
p0 5957 ± 6.881
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

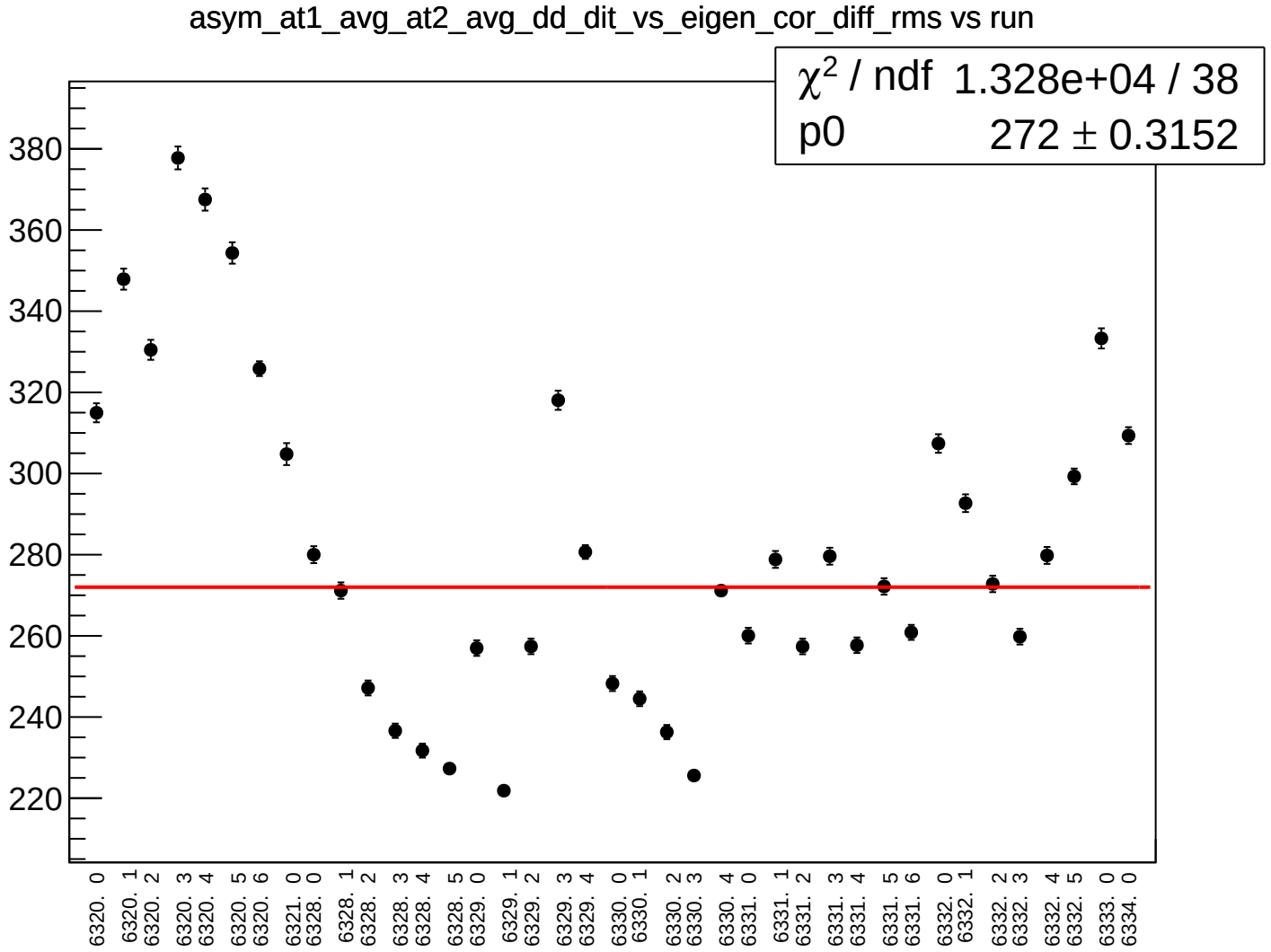

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.12 / 38
p0 −7.049e−13 ± 2.975e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 80.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.0266
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

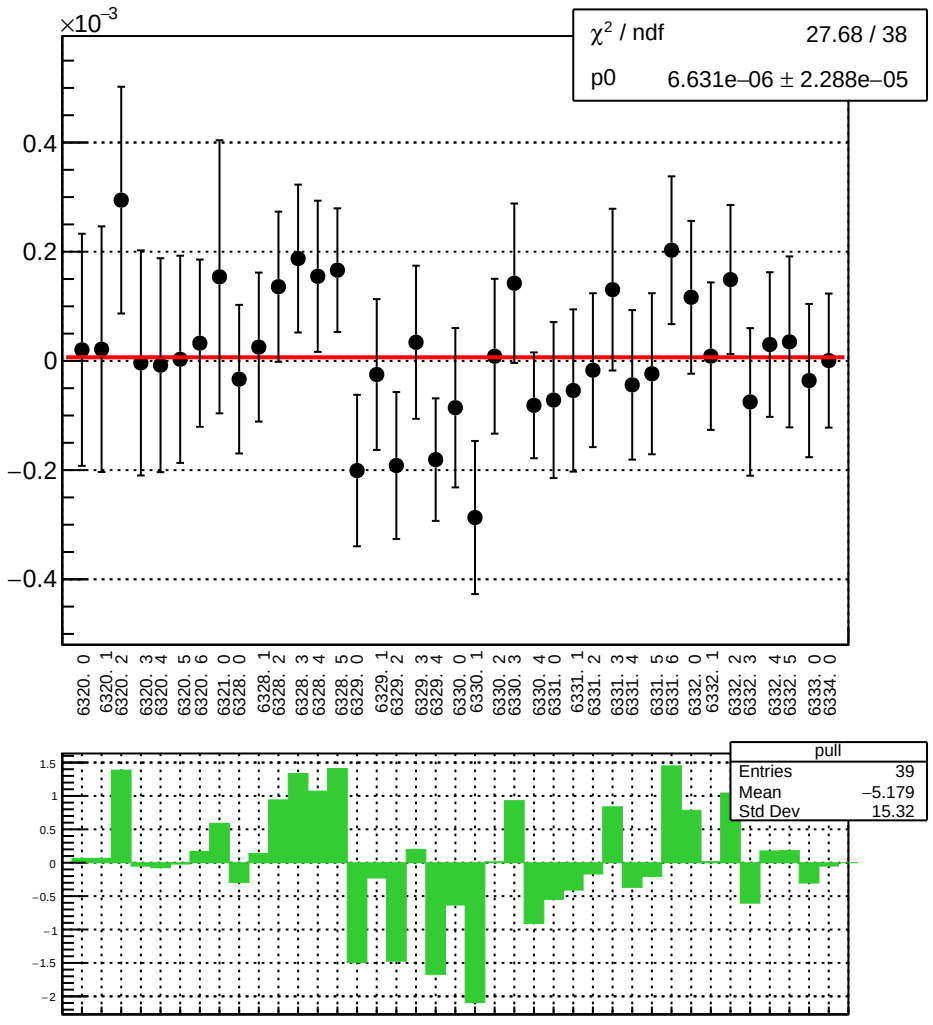

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.472e+05 / 38
p0 9.66e−11 ± 2.104e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

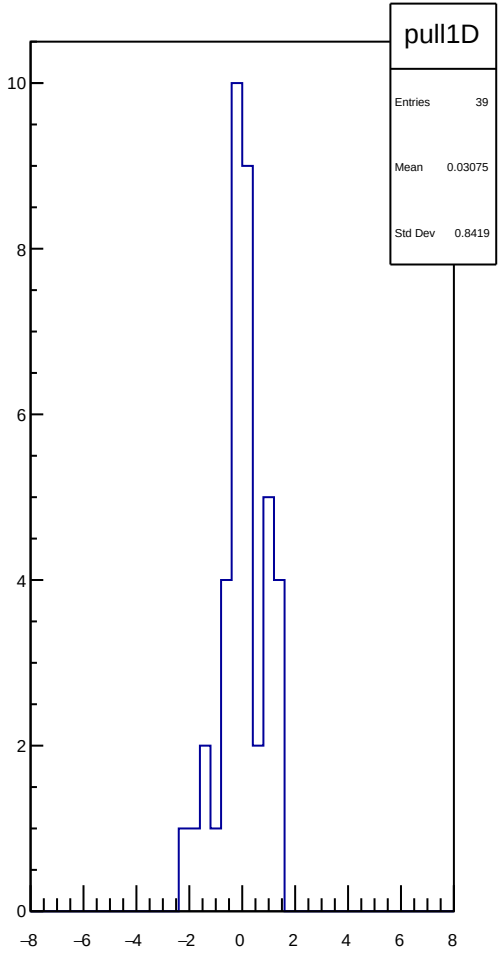

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

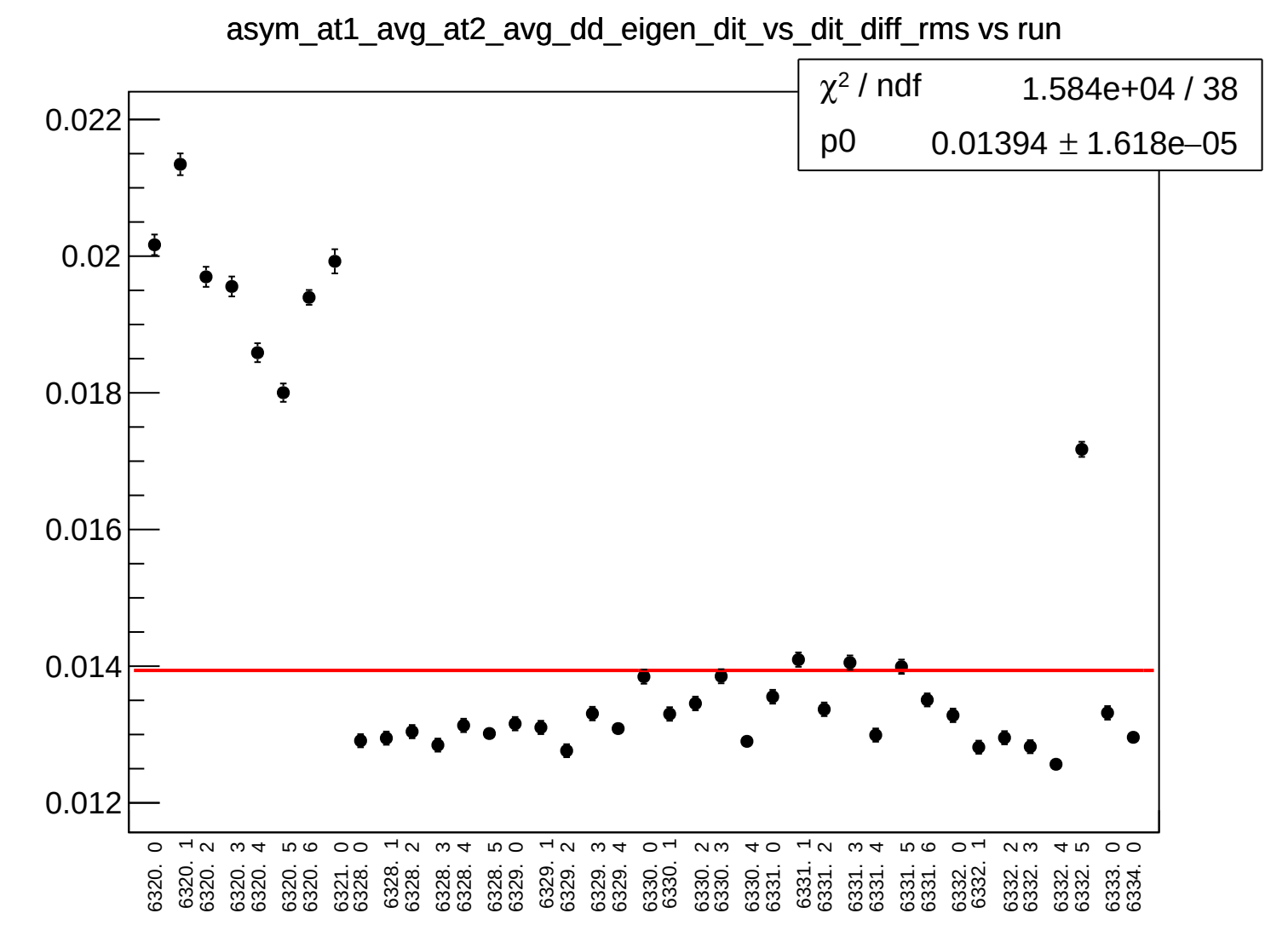

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

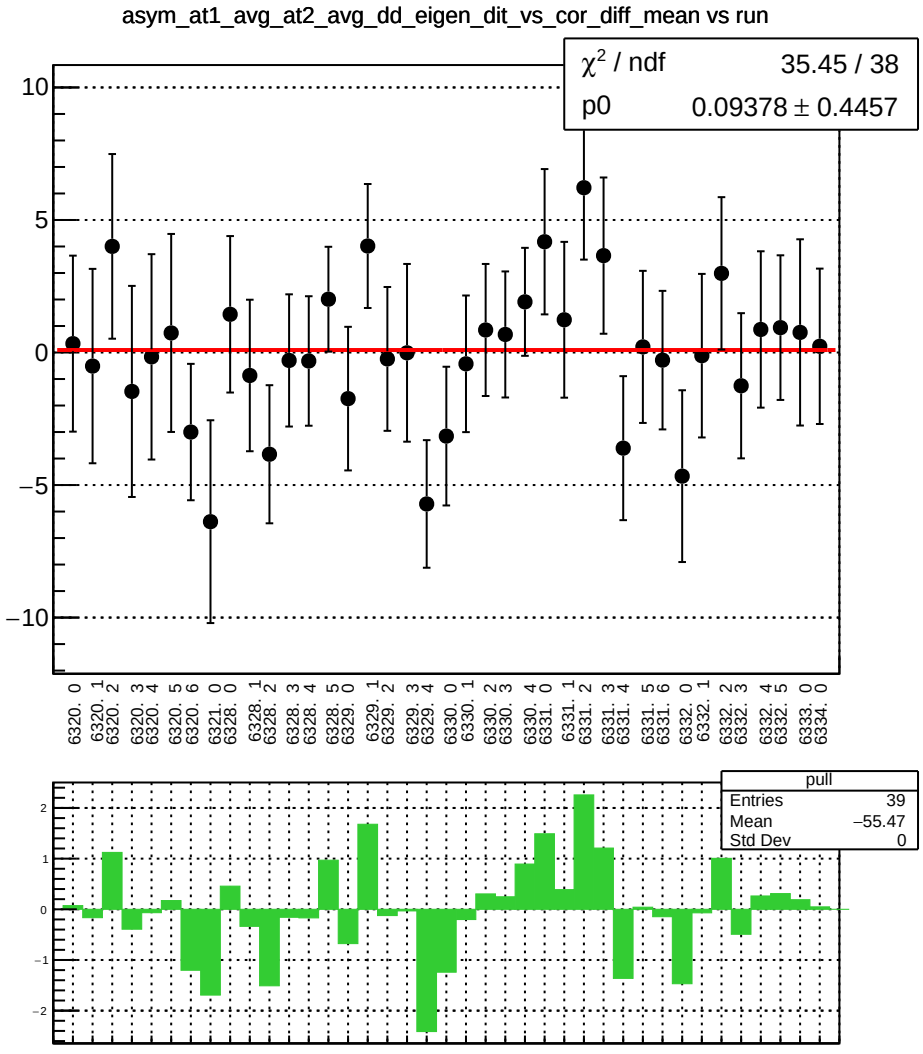

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

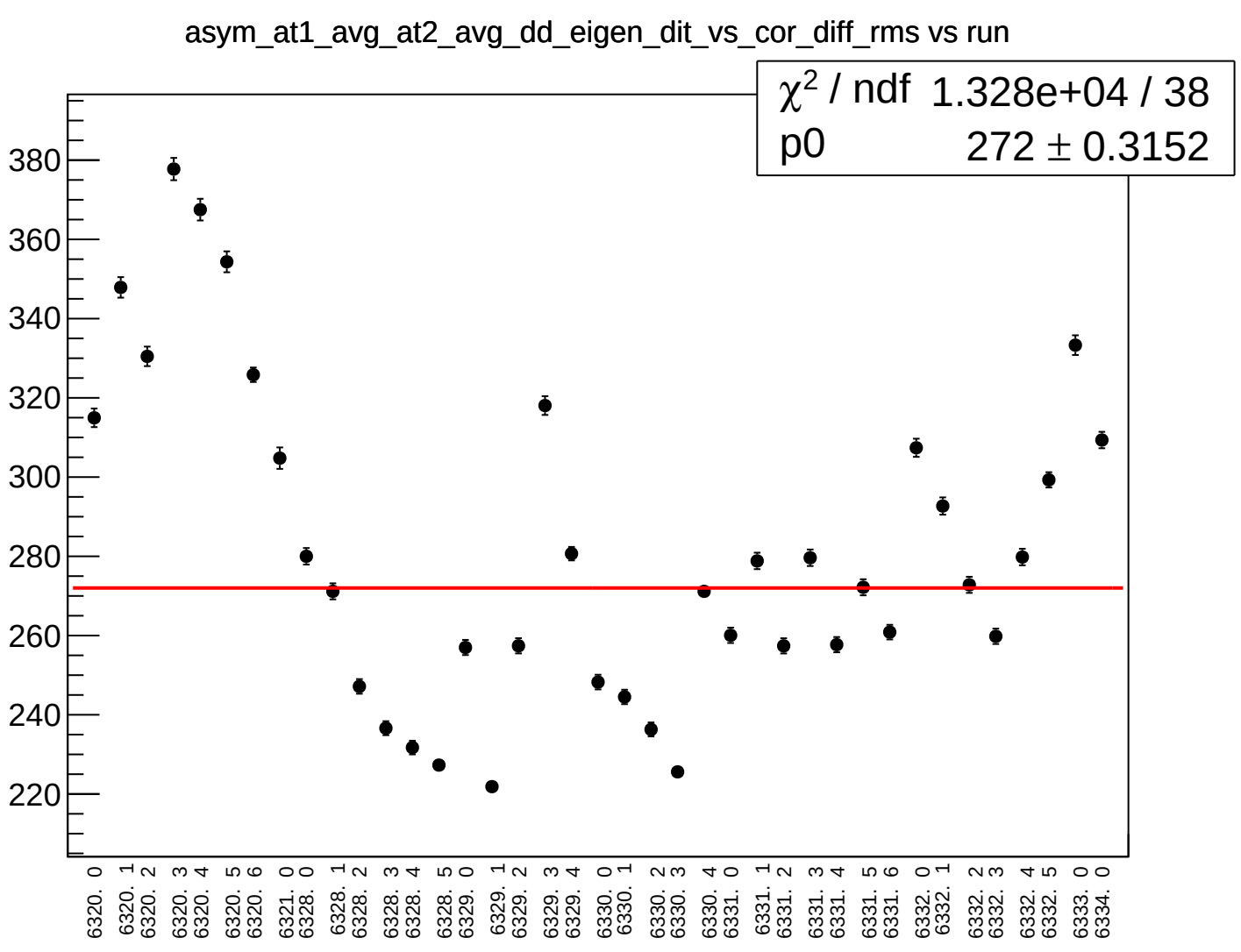

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

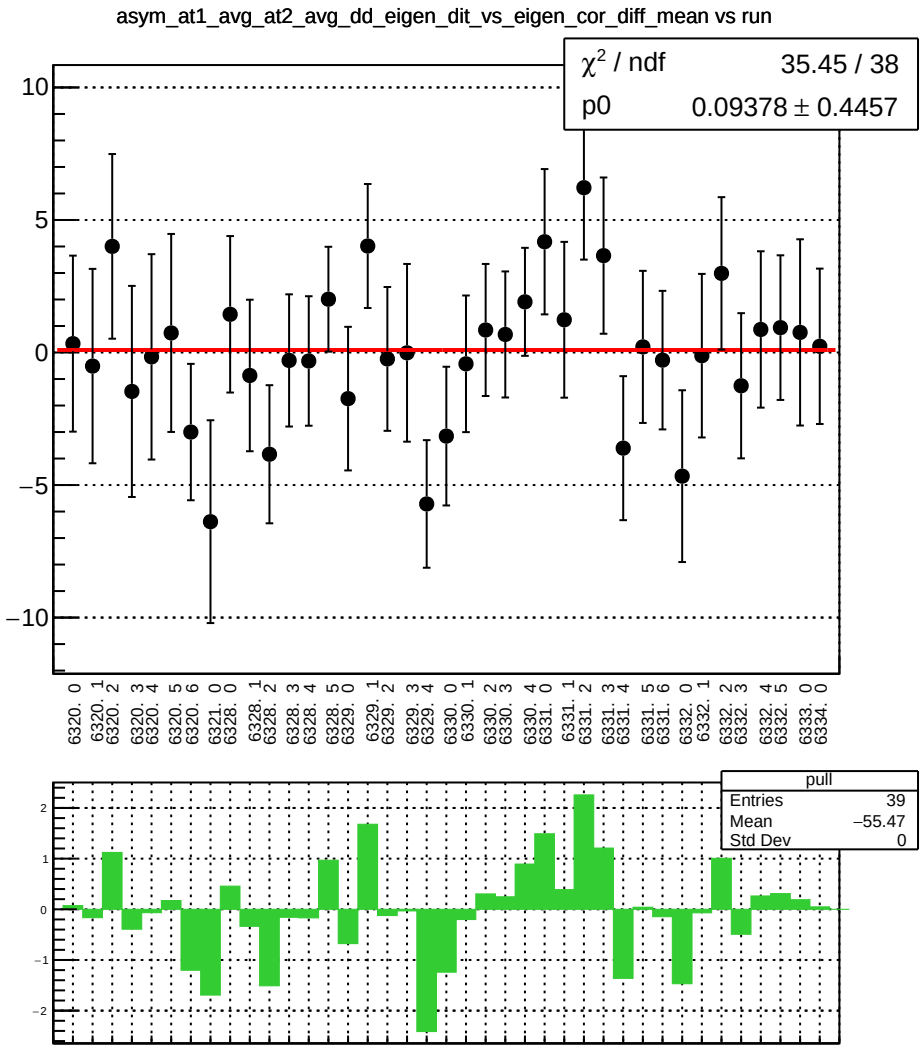

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.68 / 38
p0 6.631e−06 ± 2.288e−05
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.179
Std Dev 15.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.03075
Std Dev 0.8419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.584e+04 / 38
p0 0.01394 ± 1.618e−05
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
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 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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6331. 2
6331. 3
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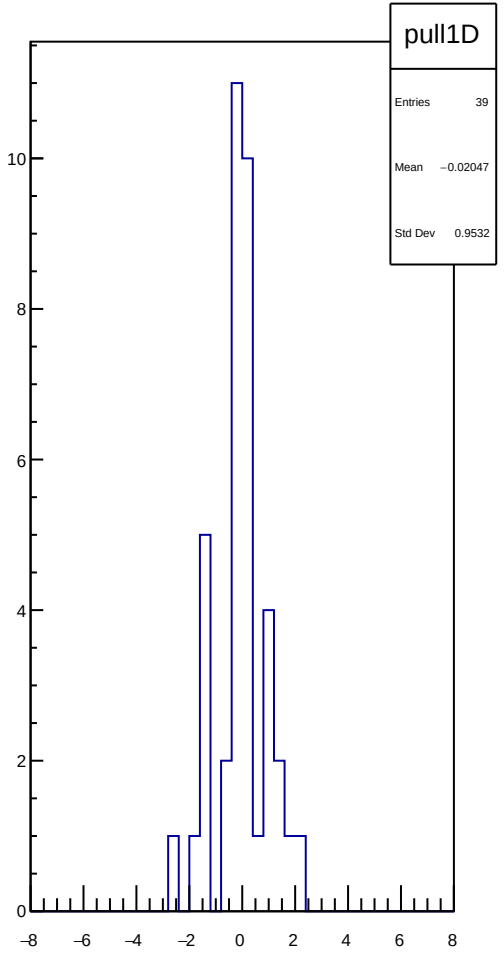
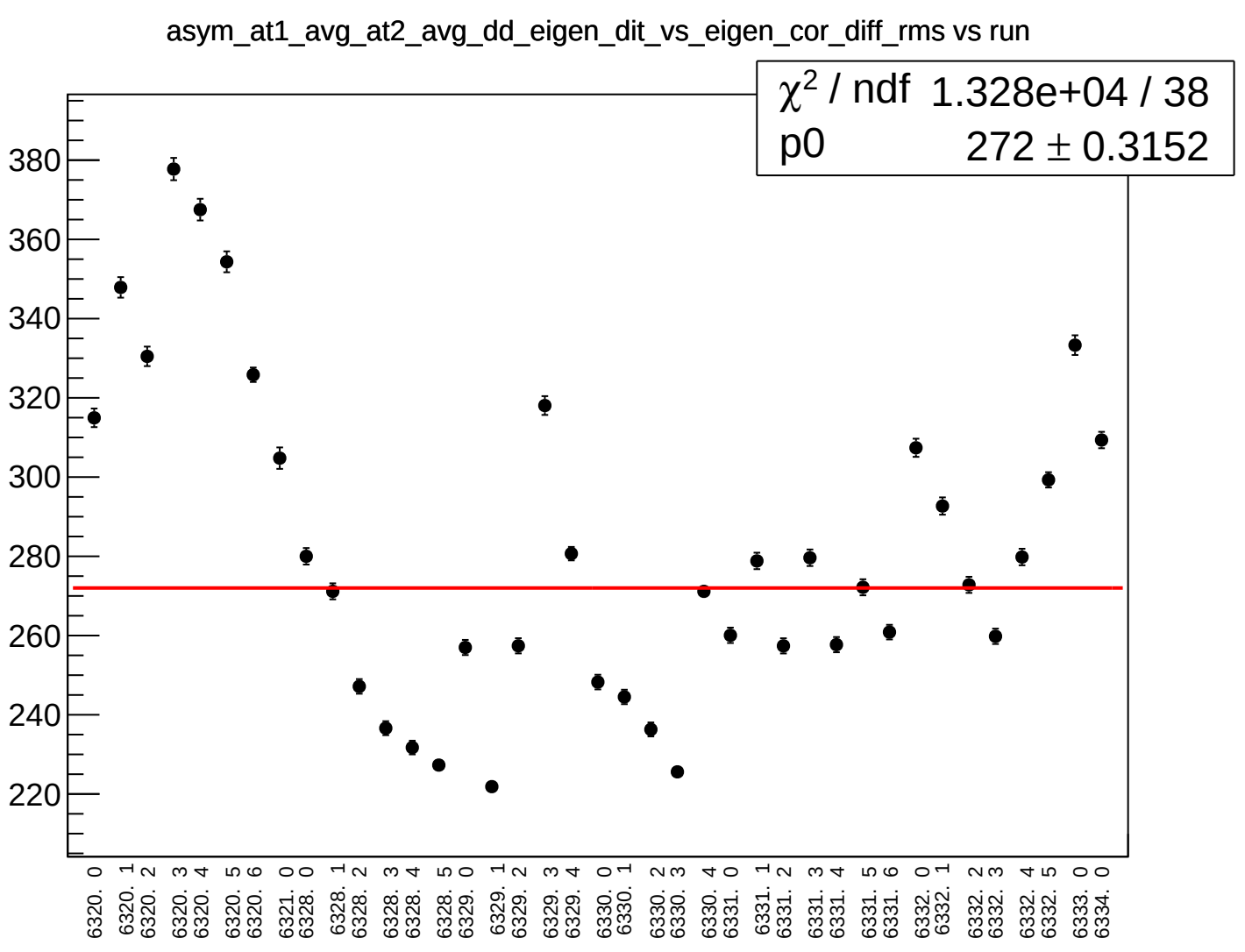
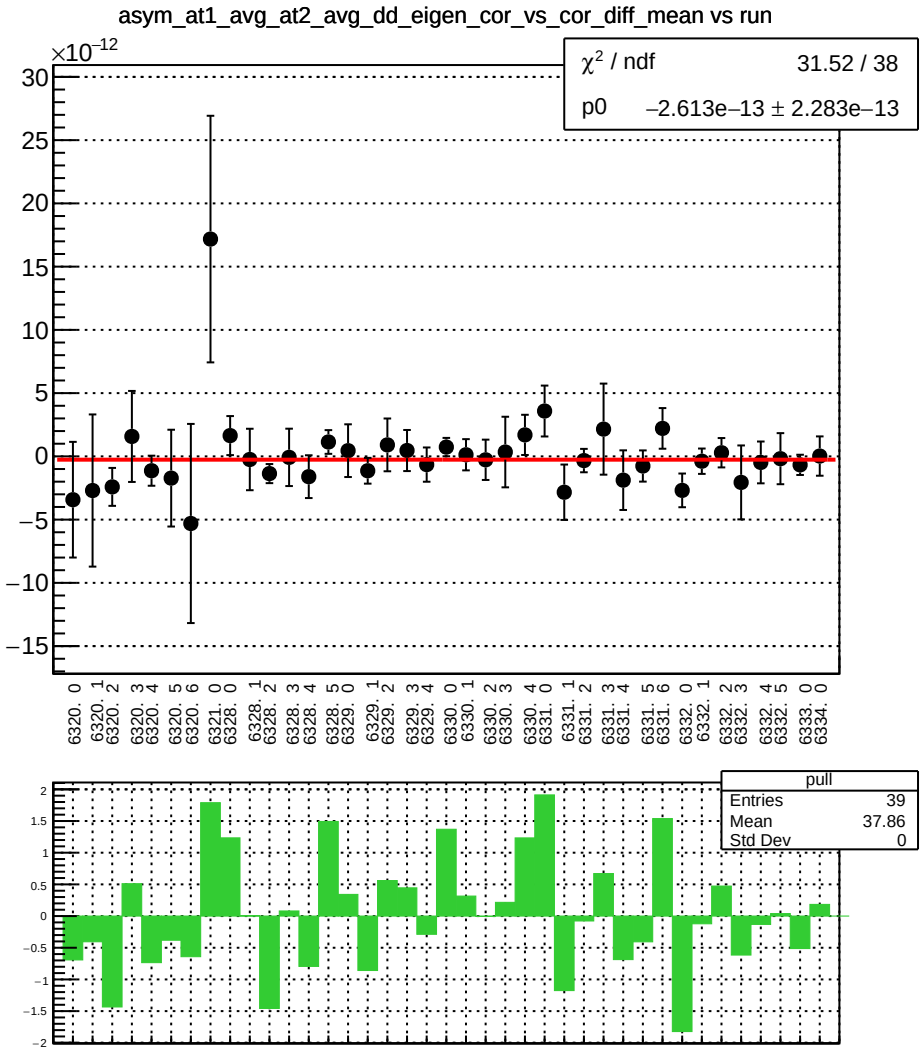
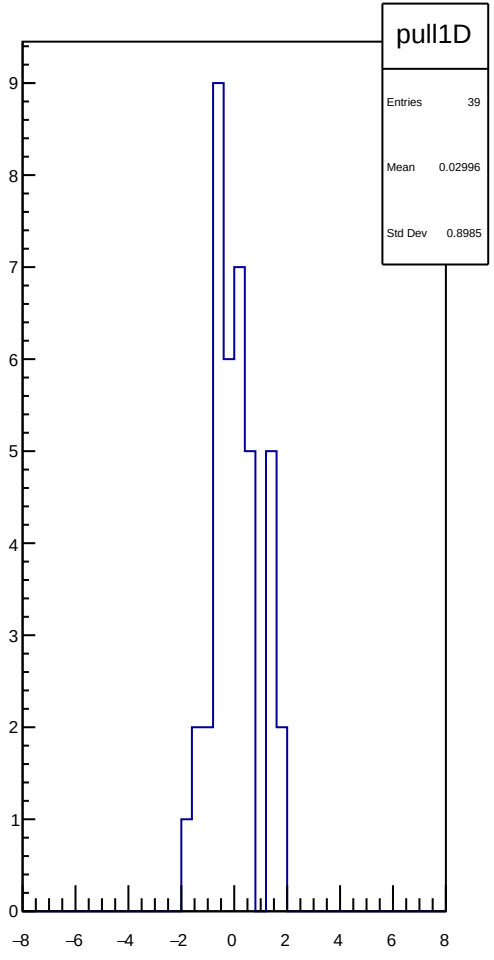
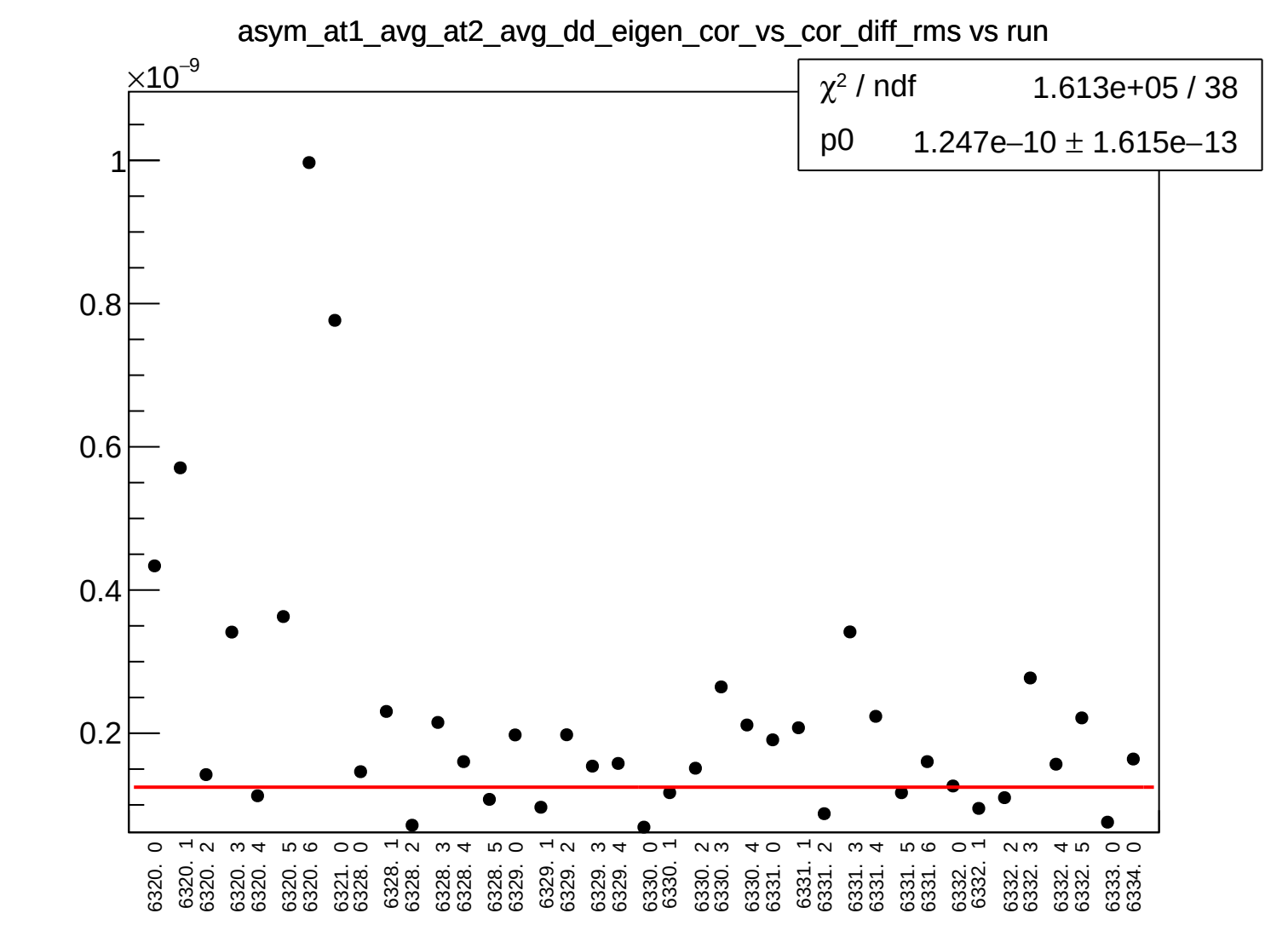
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2

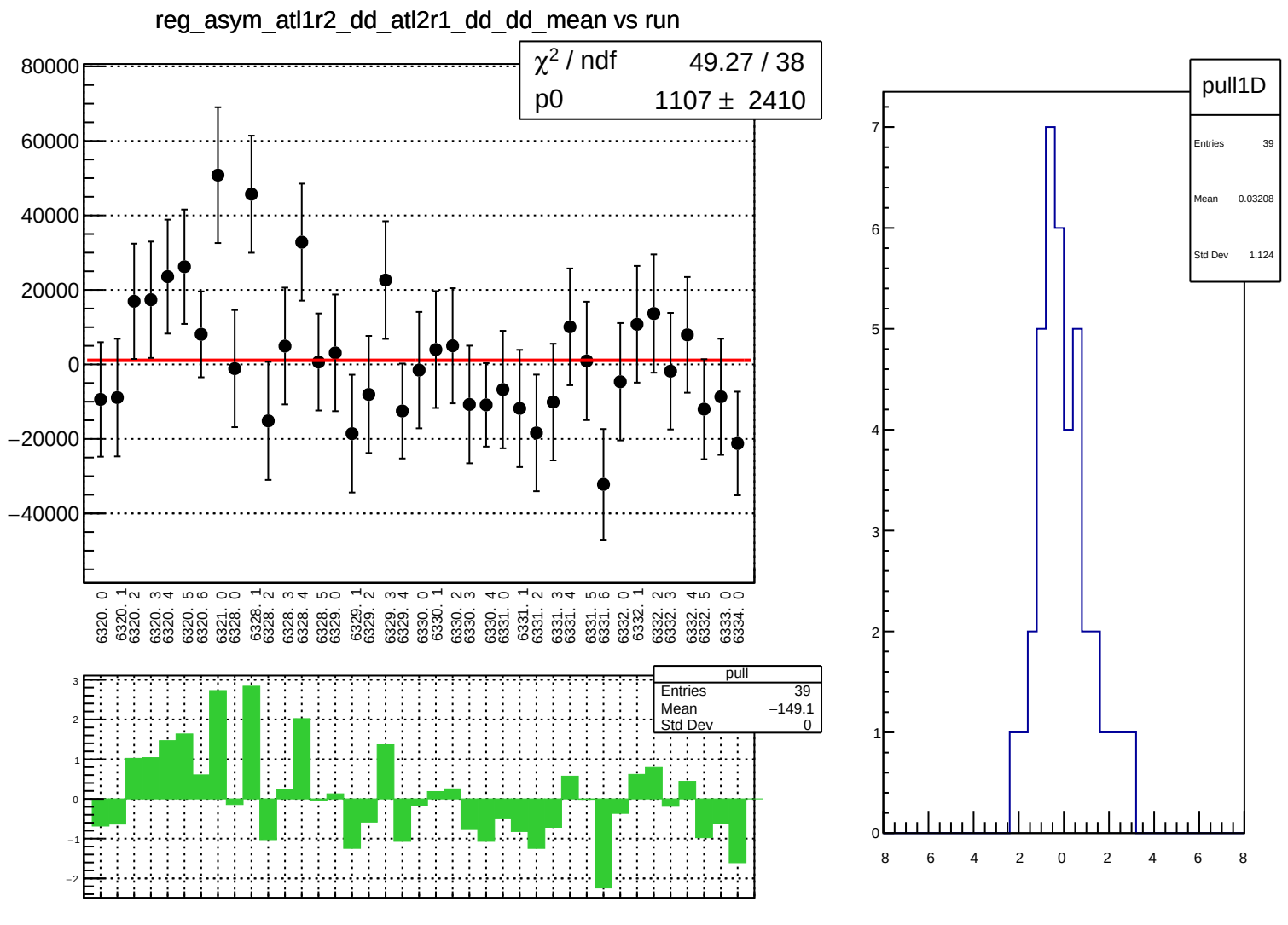

pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

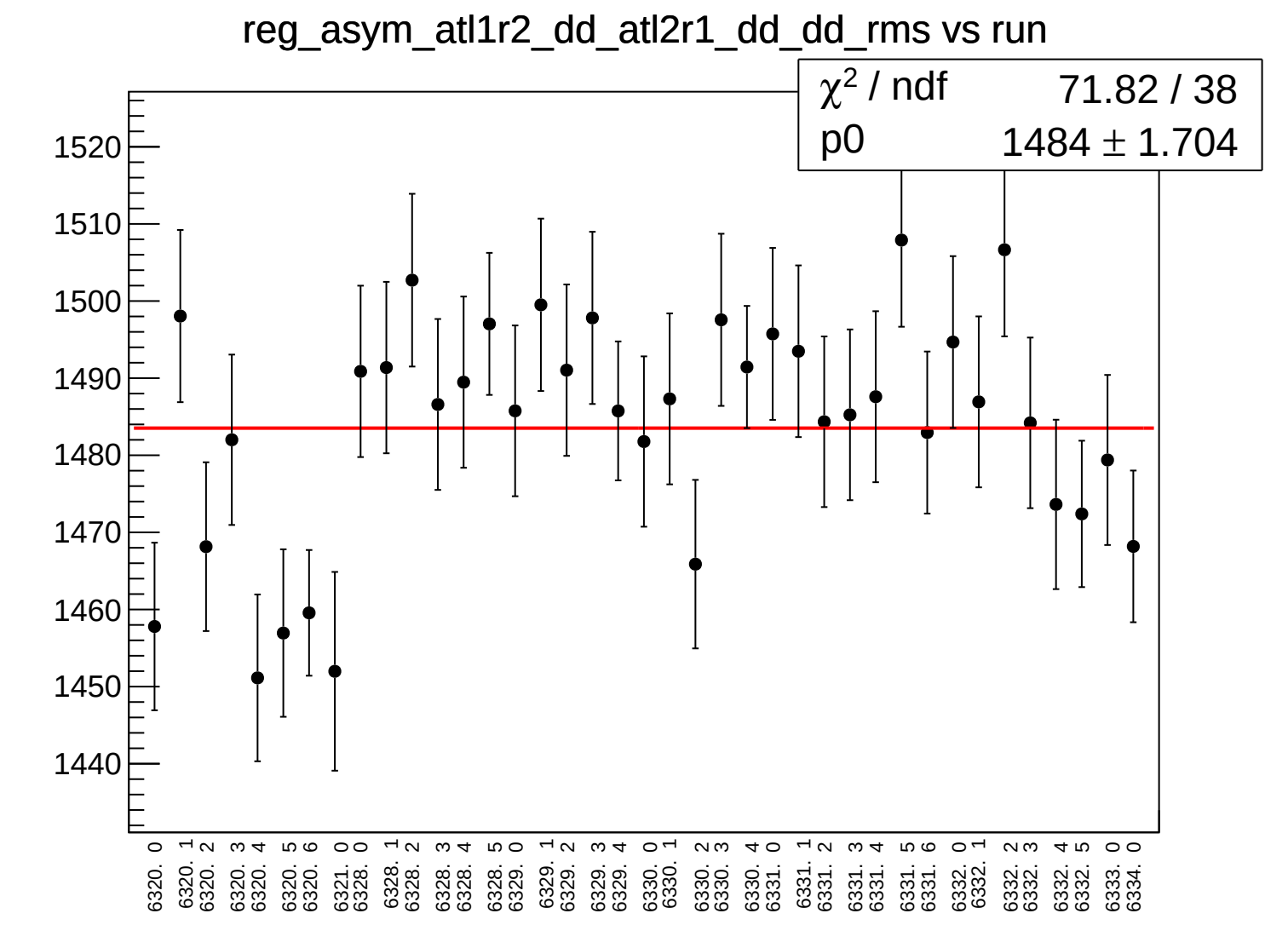

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

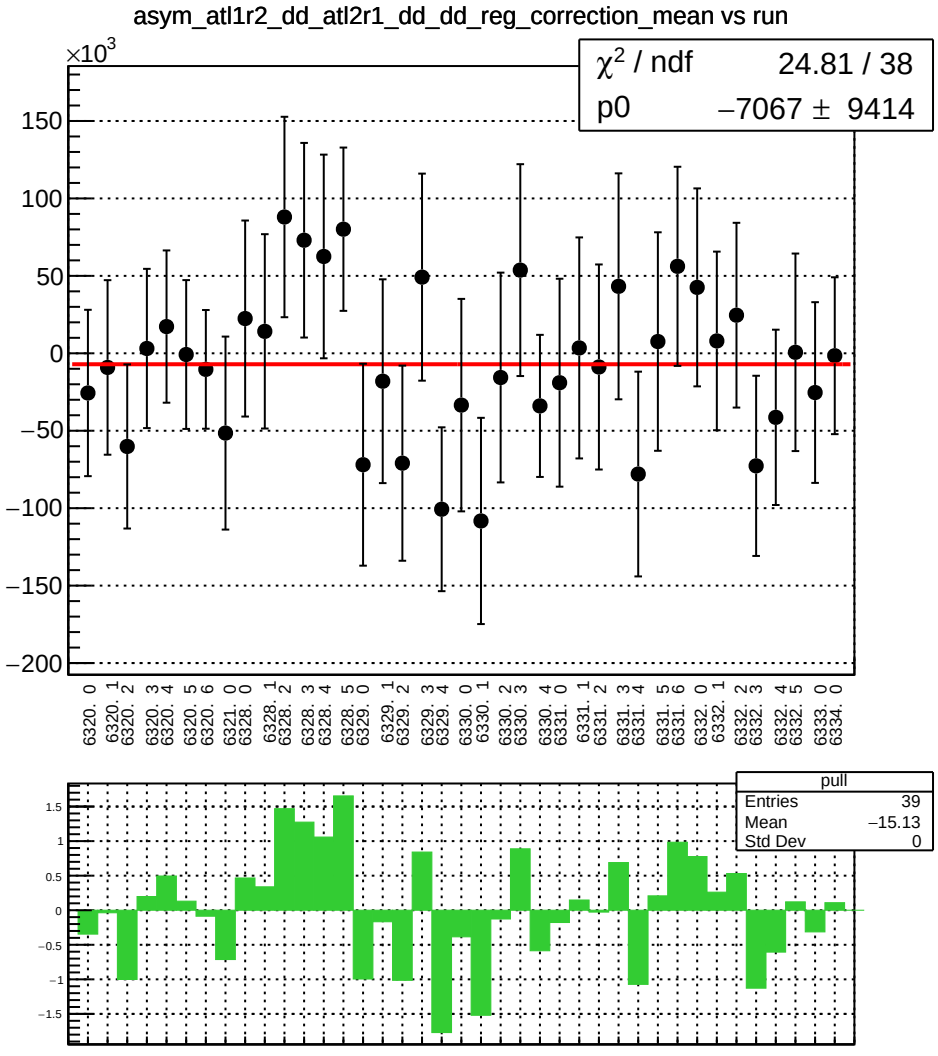

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.52 / 38
p0 −2.613e−13 ± 2.283e−13
pull
Entries 39
Mean 37.86
Std Dev 0

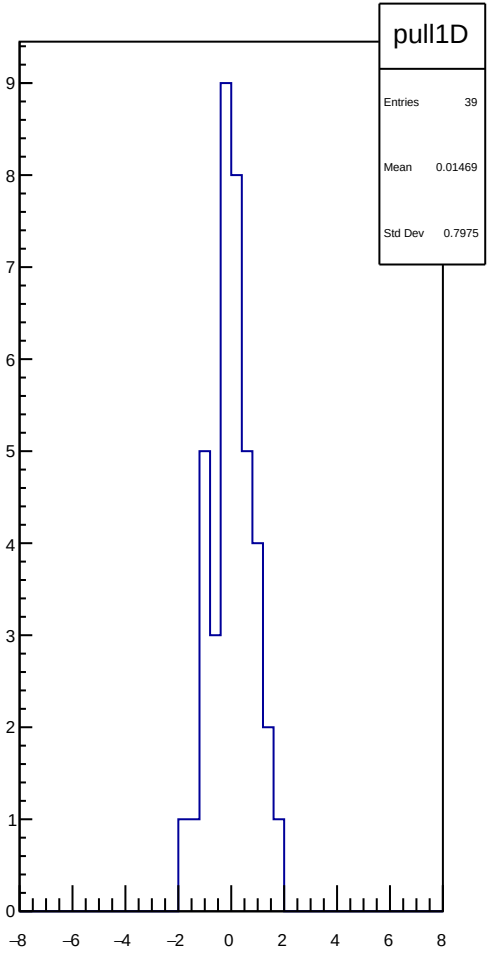

pull1D
Entries 39
Mean 0.02996
Std Dev 0.8985

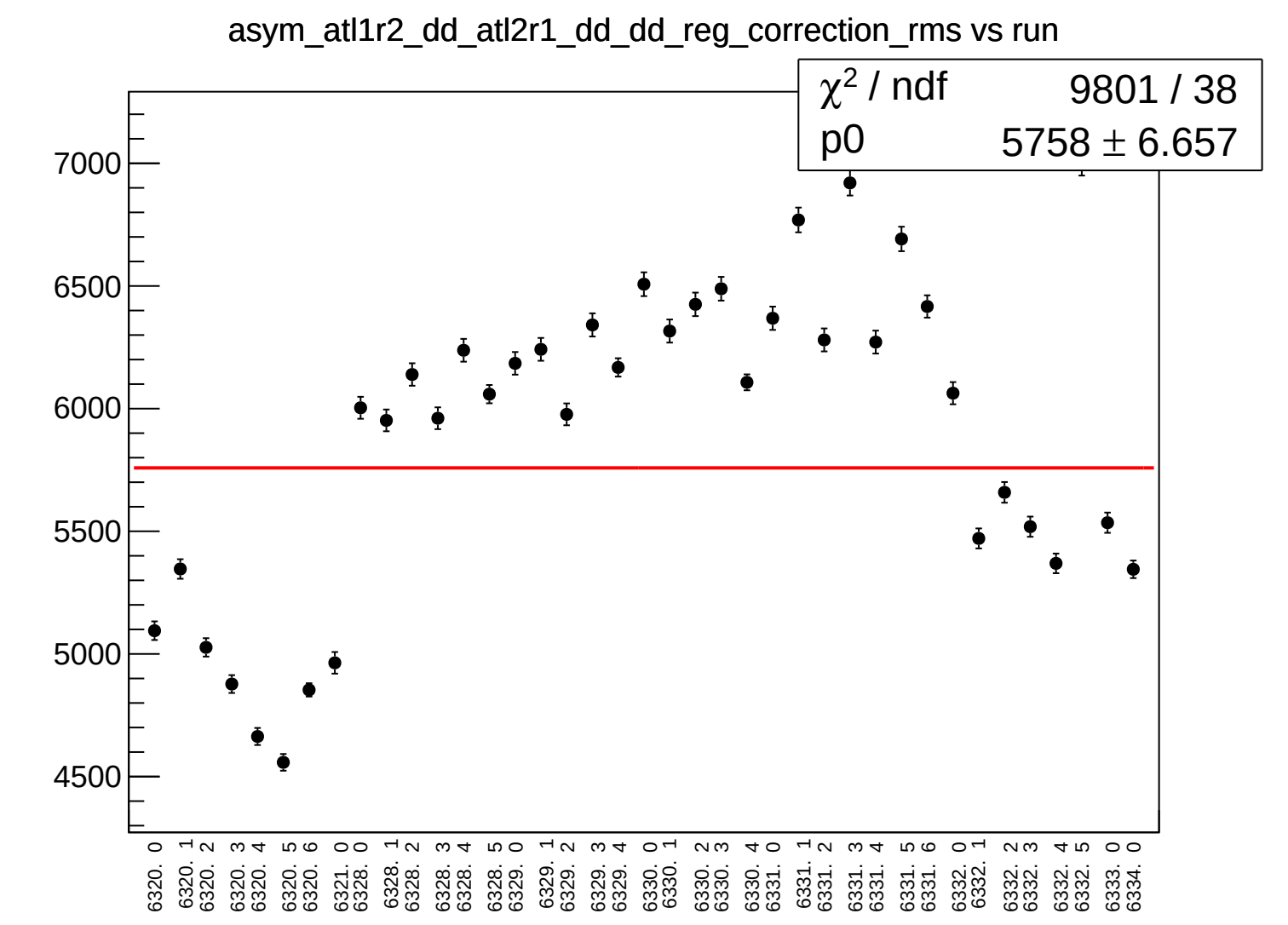

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.613e+05 / 38
p0 1.247e−10 ± 1.615e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

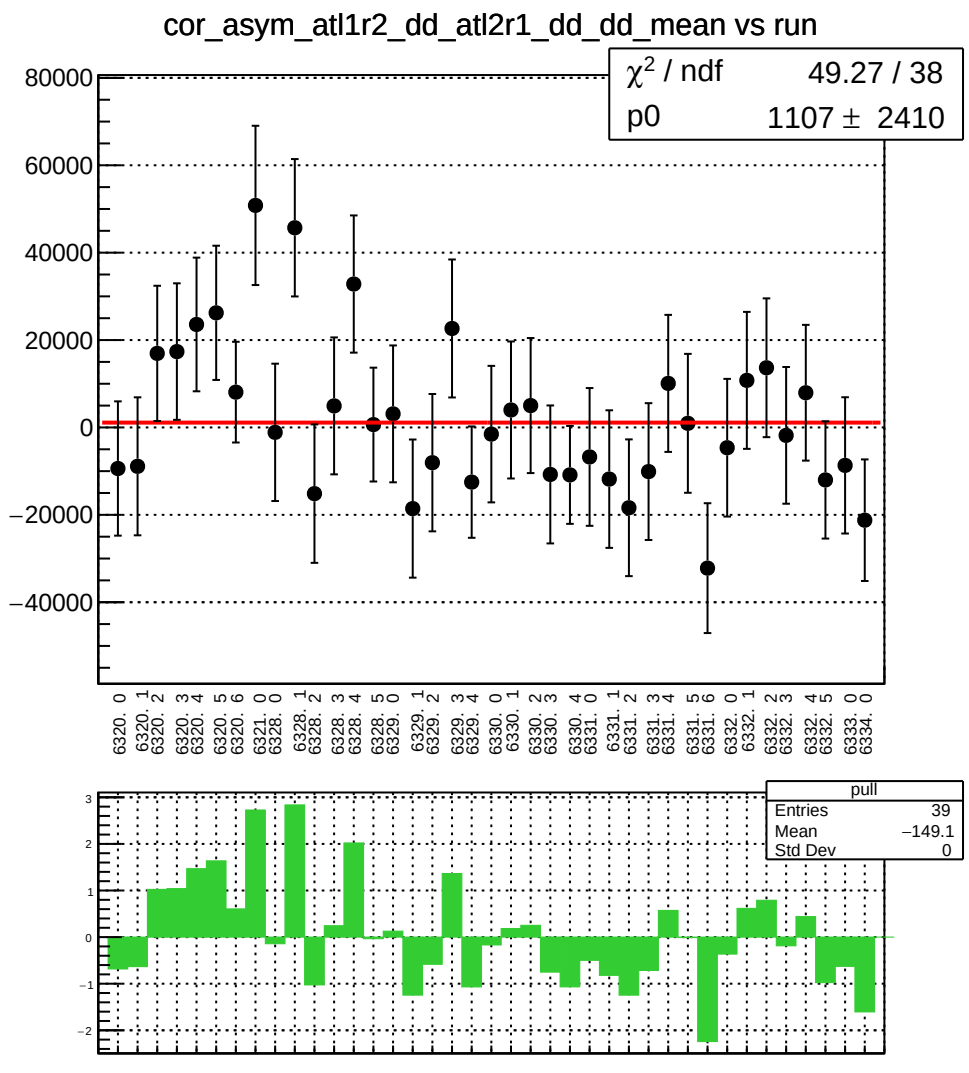

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

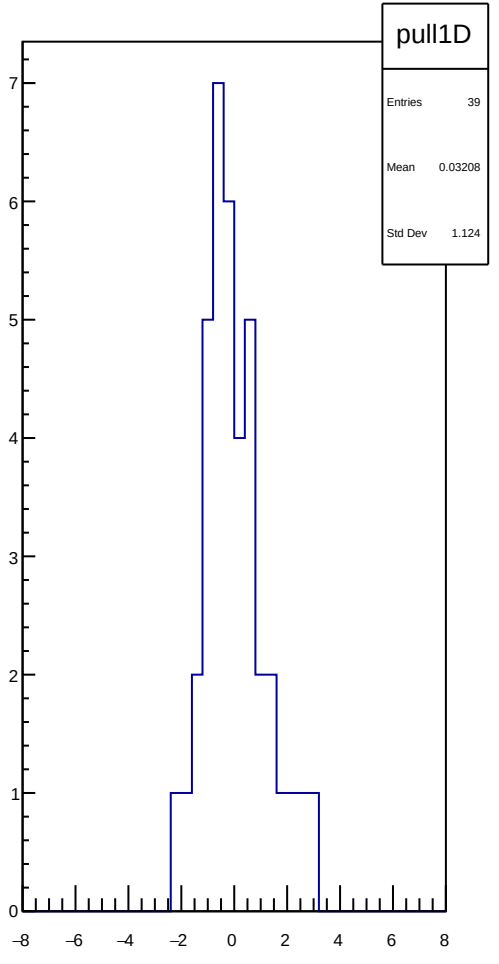

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

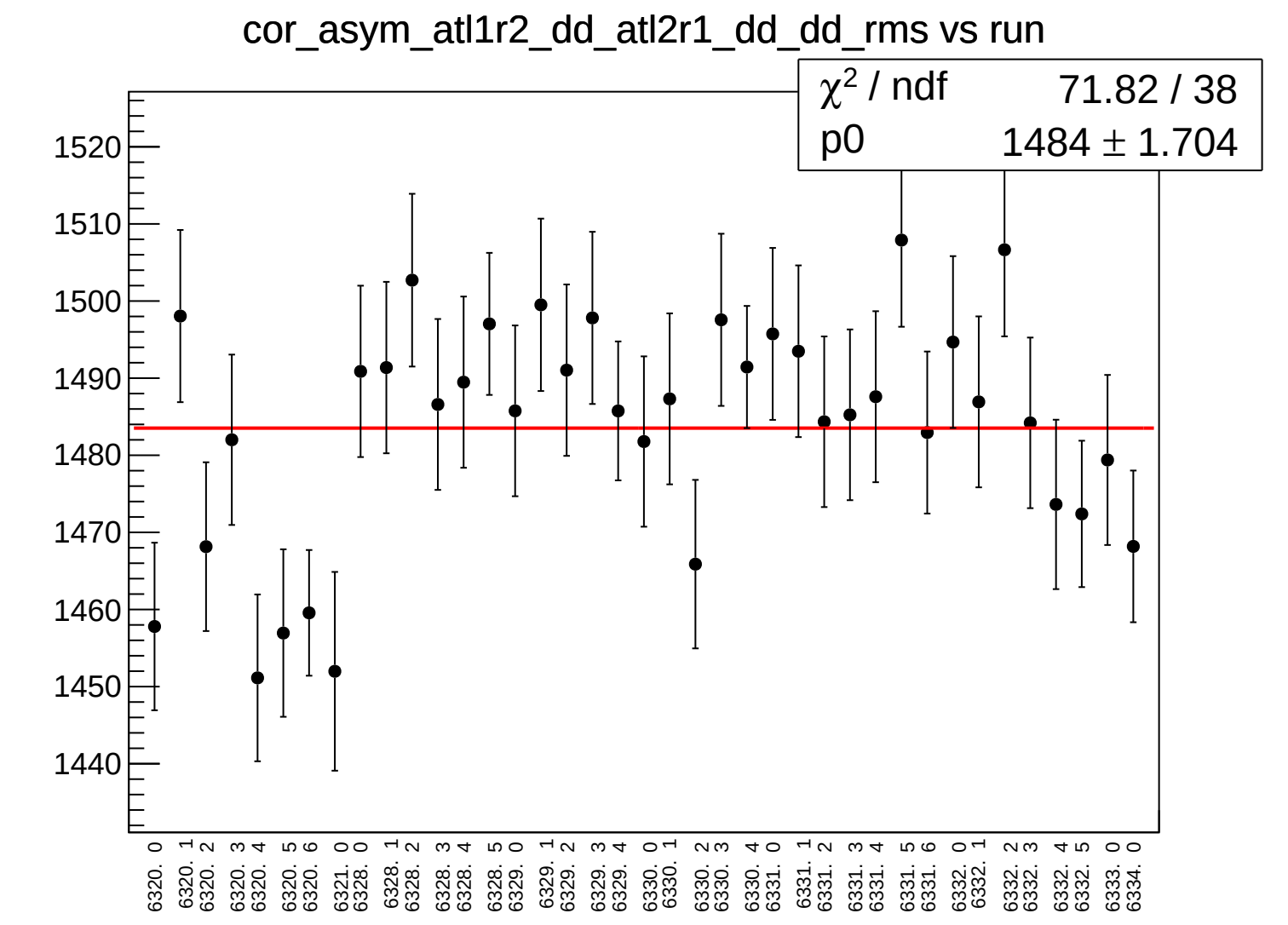

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
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_reg_correction_rms vs run
χ² / ndf 9801 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
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6332. 2
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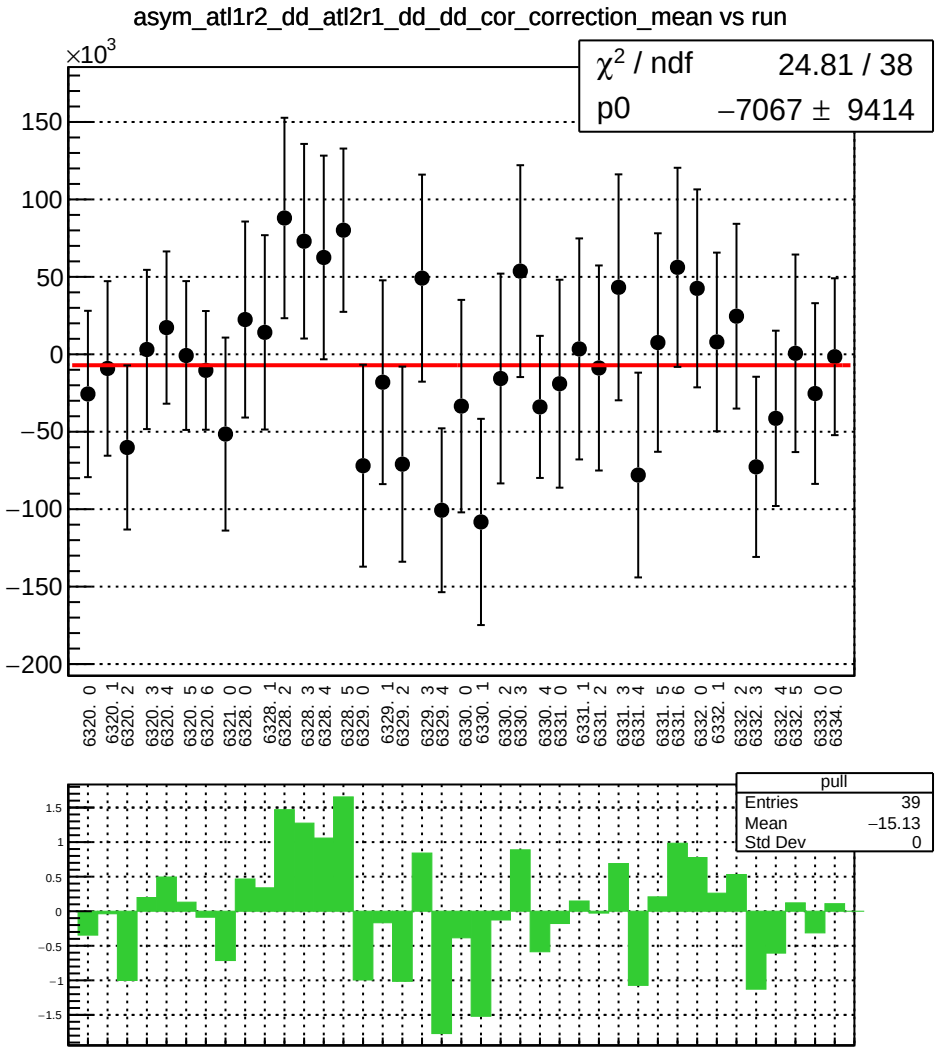
6334. 0


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
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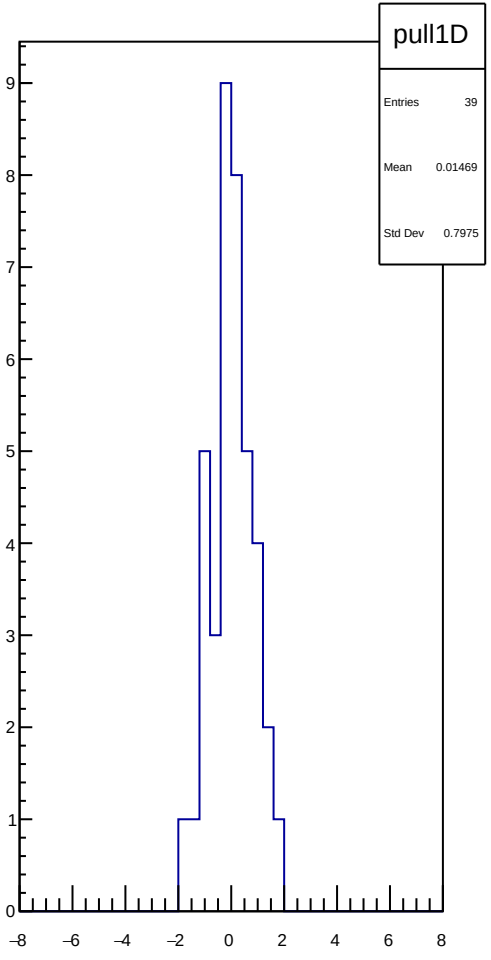
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
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5
4
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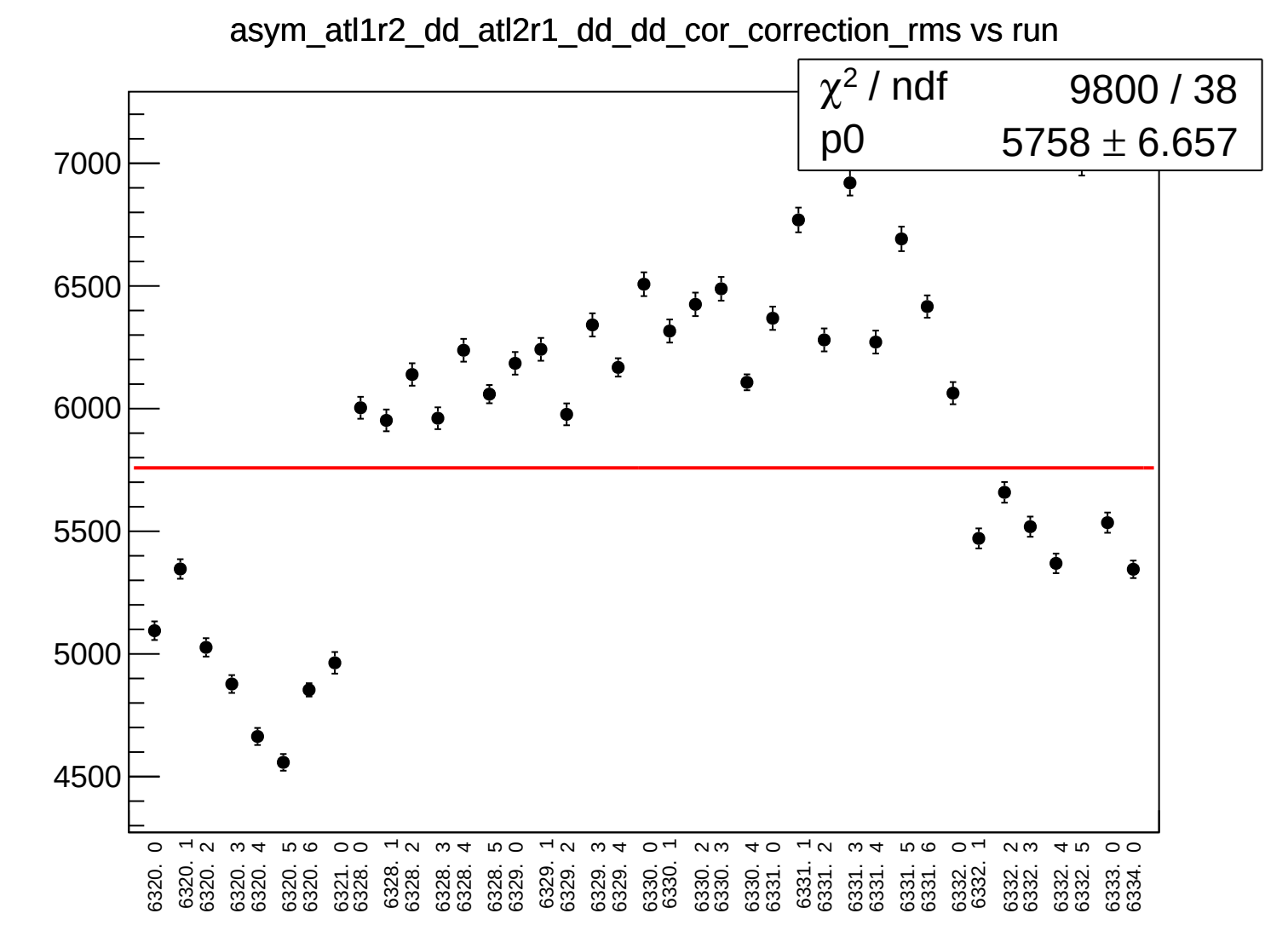
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
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6329. 2
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6329. 4
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6330. 1
6330. 2
6330. 3
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6331. 0
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6331. 2
6331. 3
6331. 4
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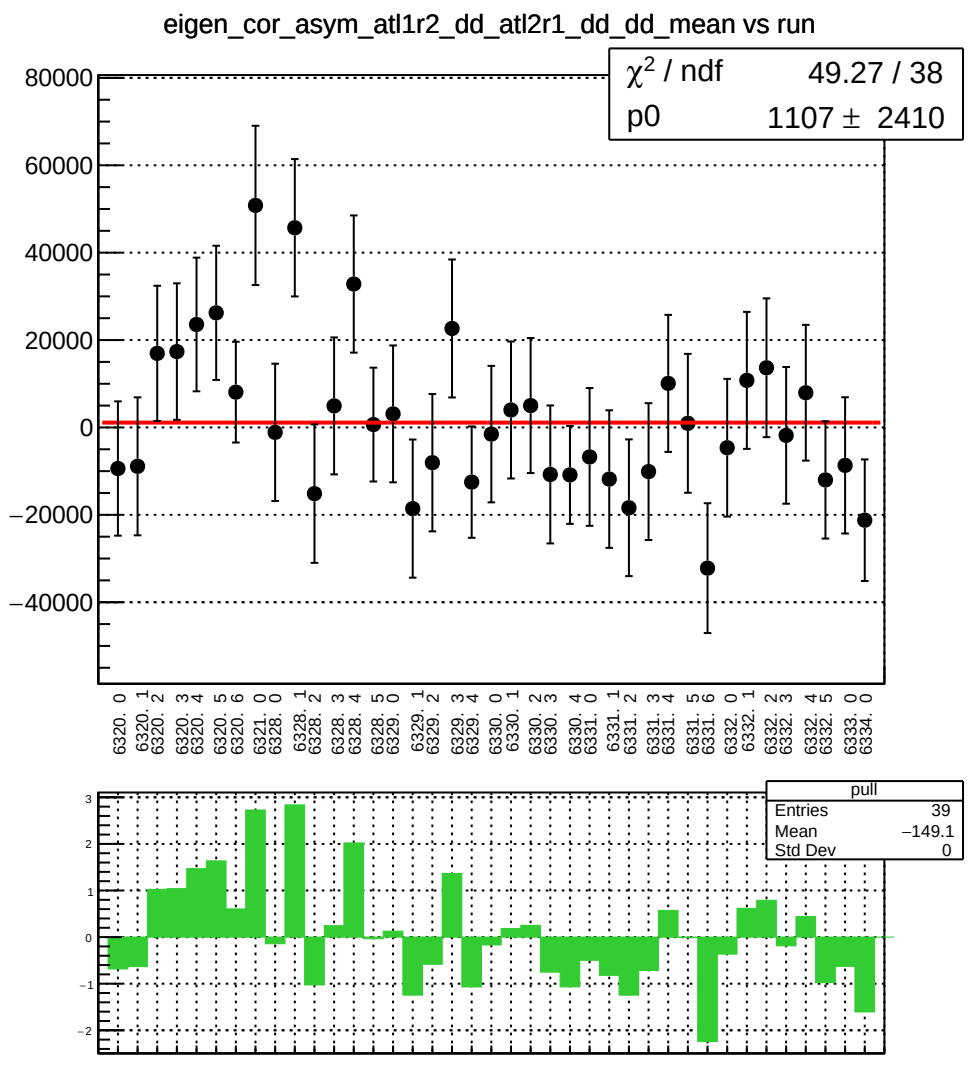
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 49.27 / 38
p0 1107 ± 2410
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
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6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03208
Std Dev 1.124
7
6
5
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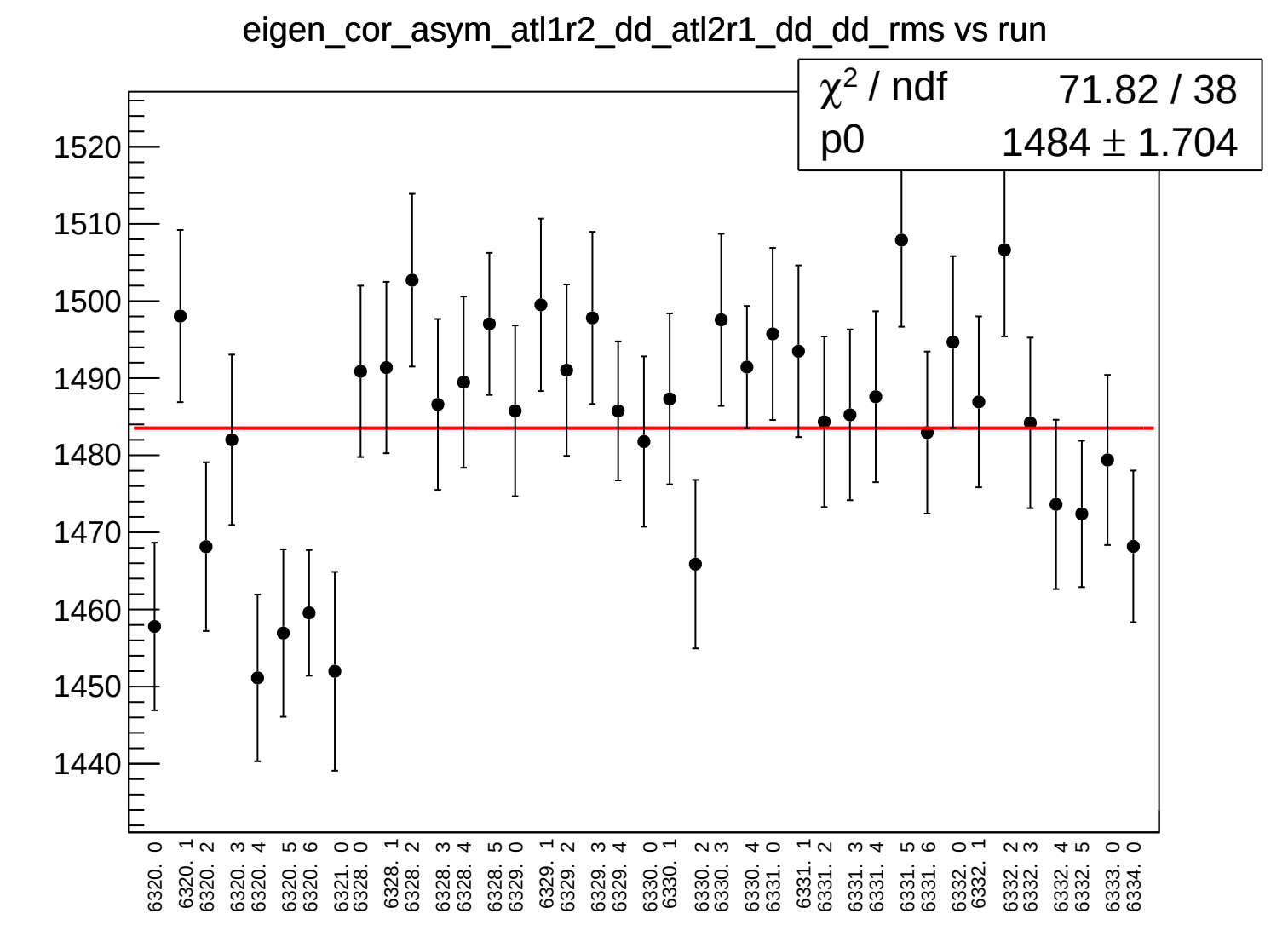
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 71.82 / 38
p0 1484 ± 1.704
1520
1510
1500
1490
1480
1470
1460
1450
1440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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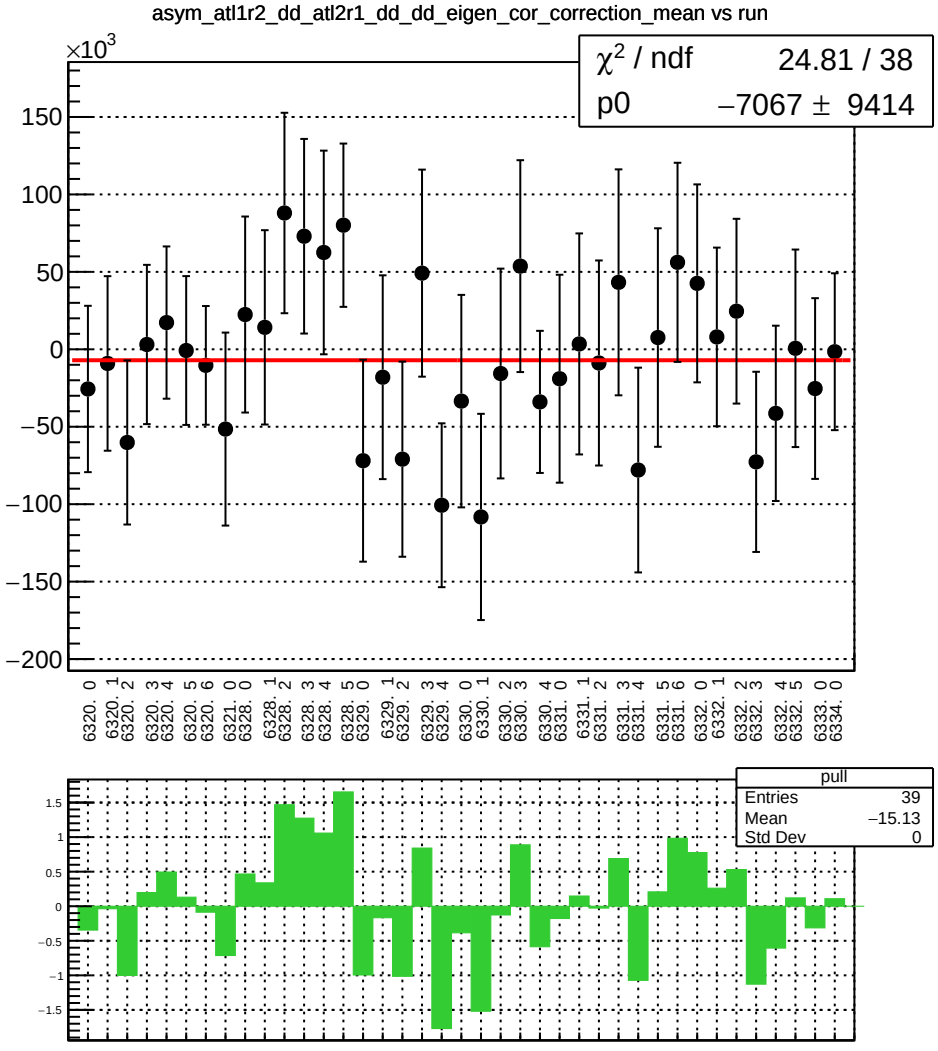
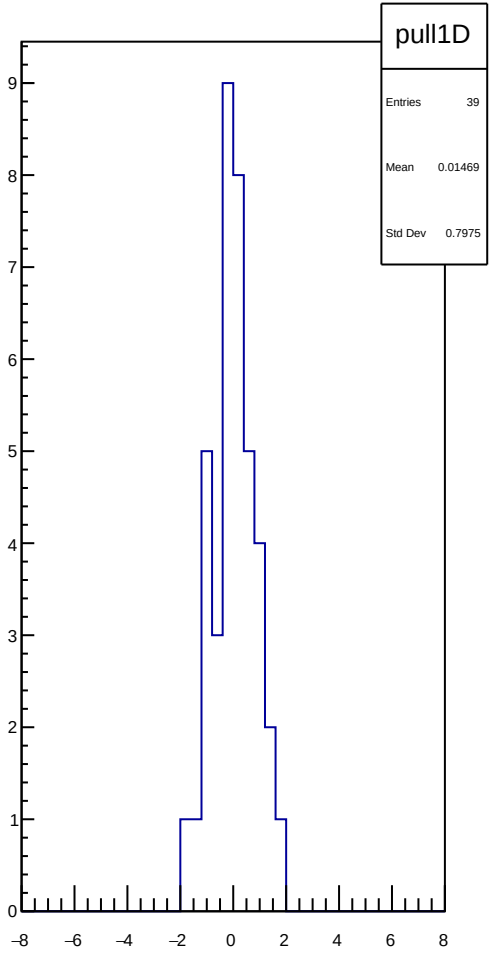
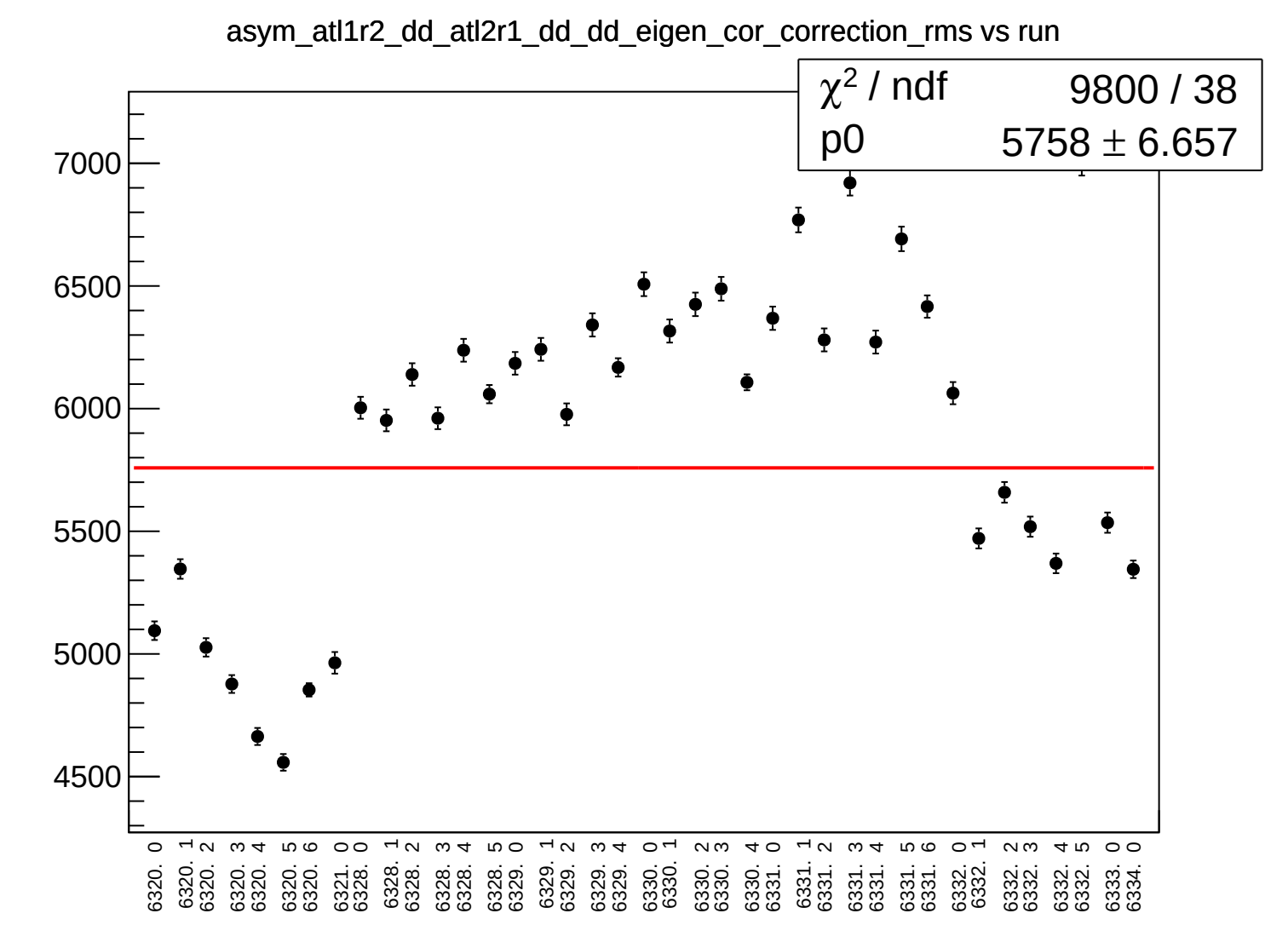
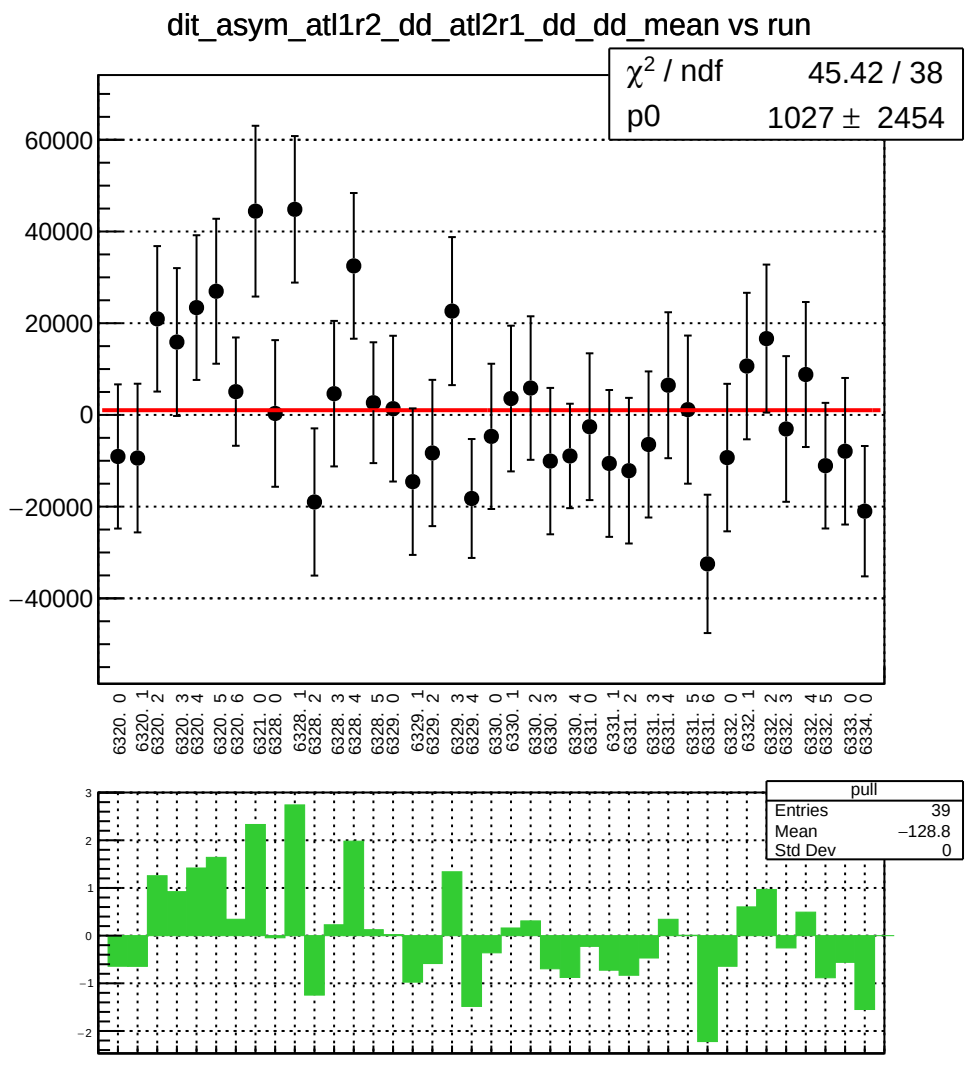
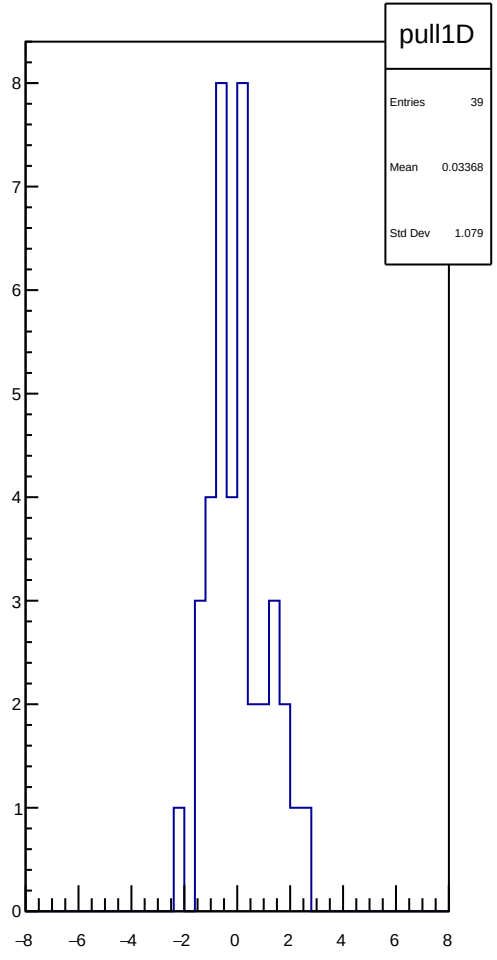
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

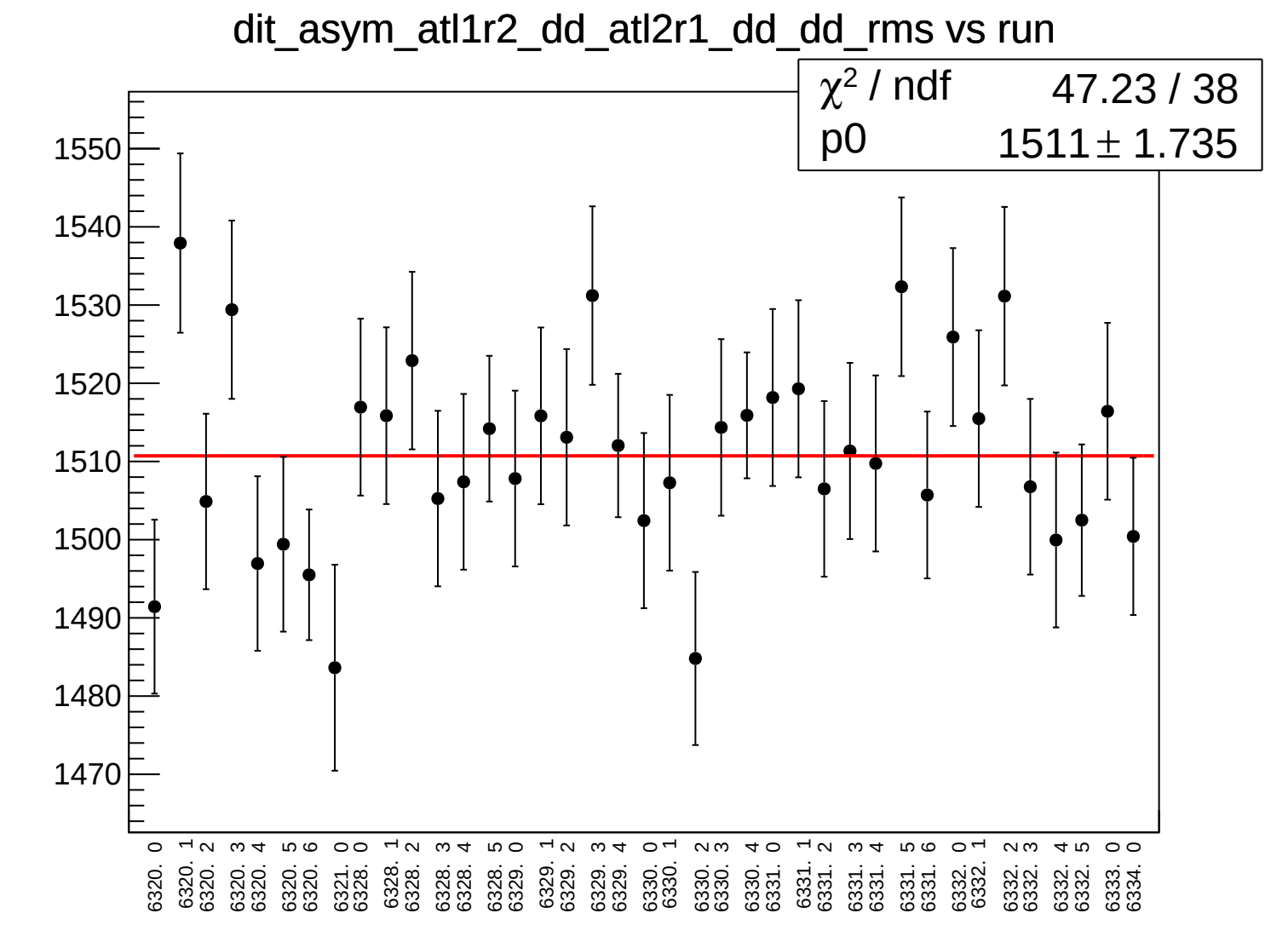

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −7067 ± 9414
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

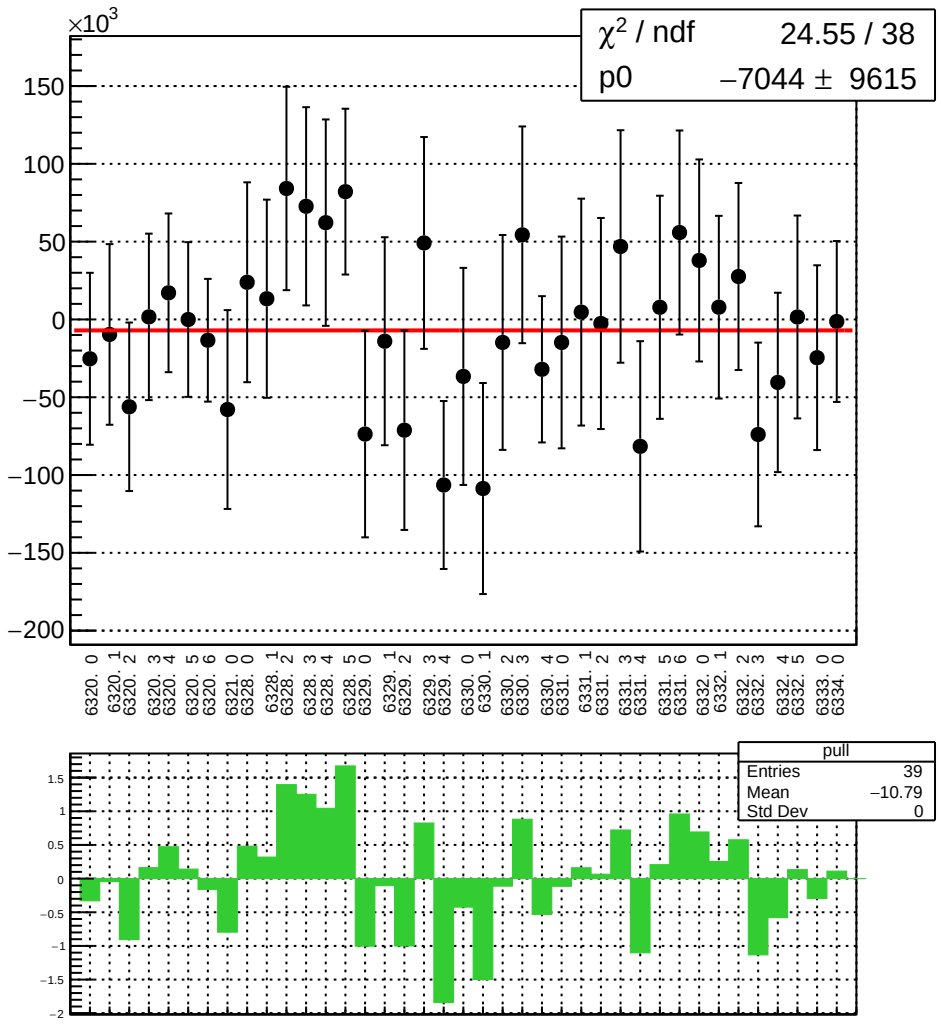

pull1D
Entries 39
Mean 0.01469
Std Dev 0.7975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

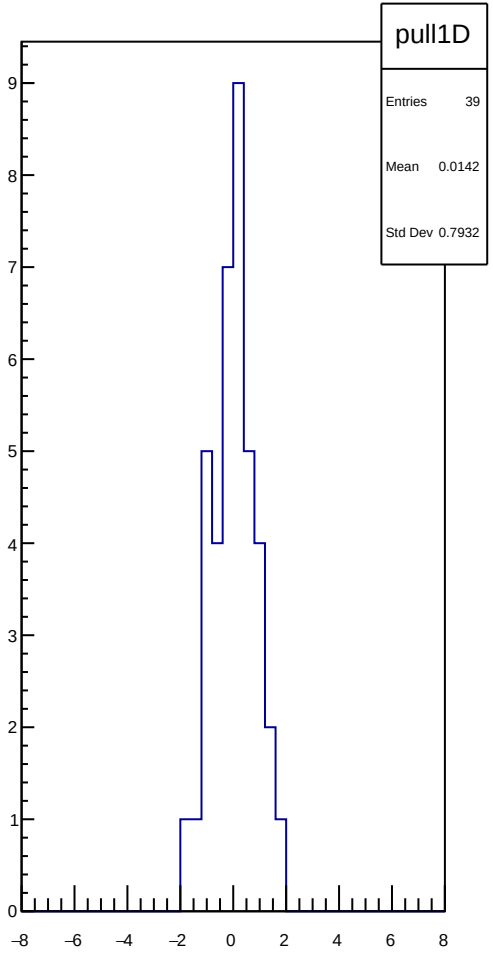

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9800 / 38
p0 5758 ± 6.657
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

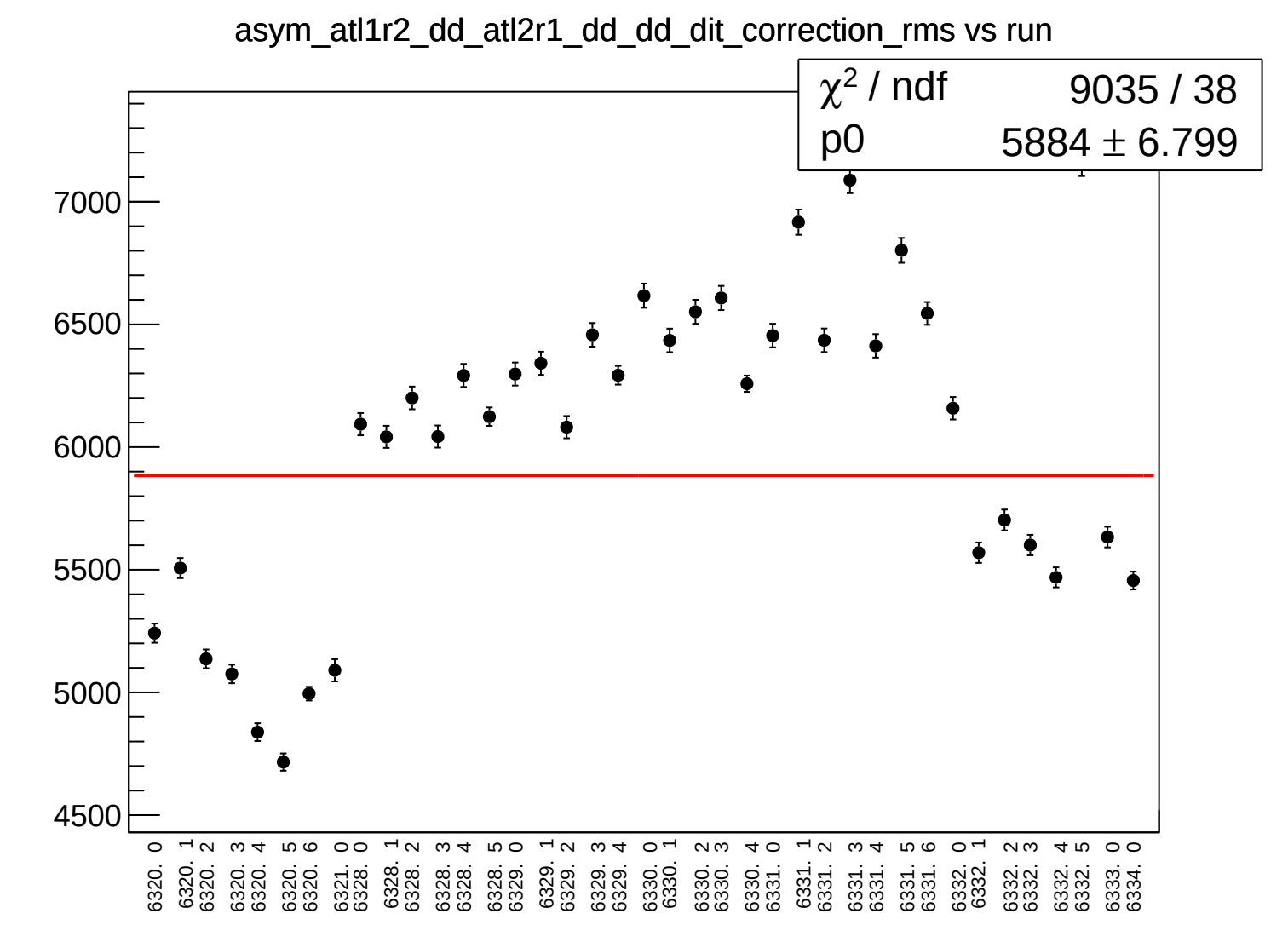

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2

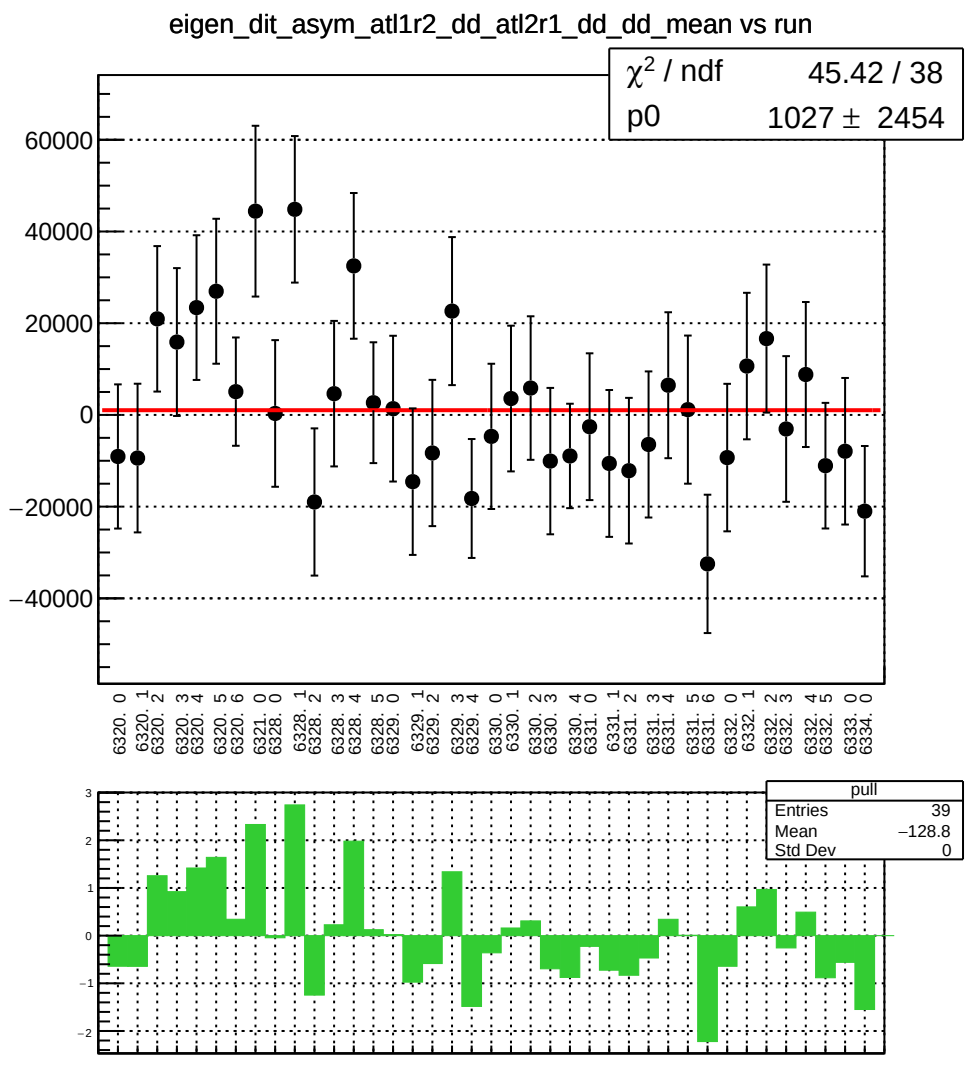

pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

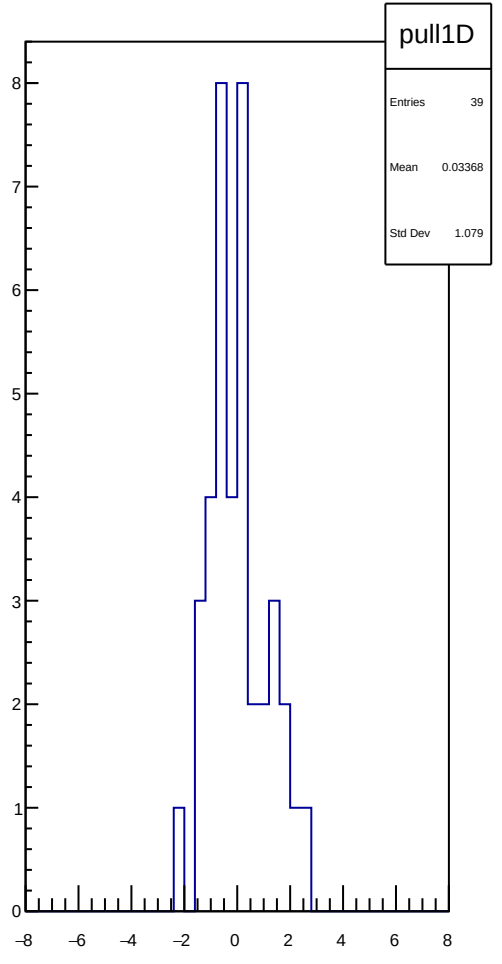

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

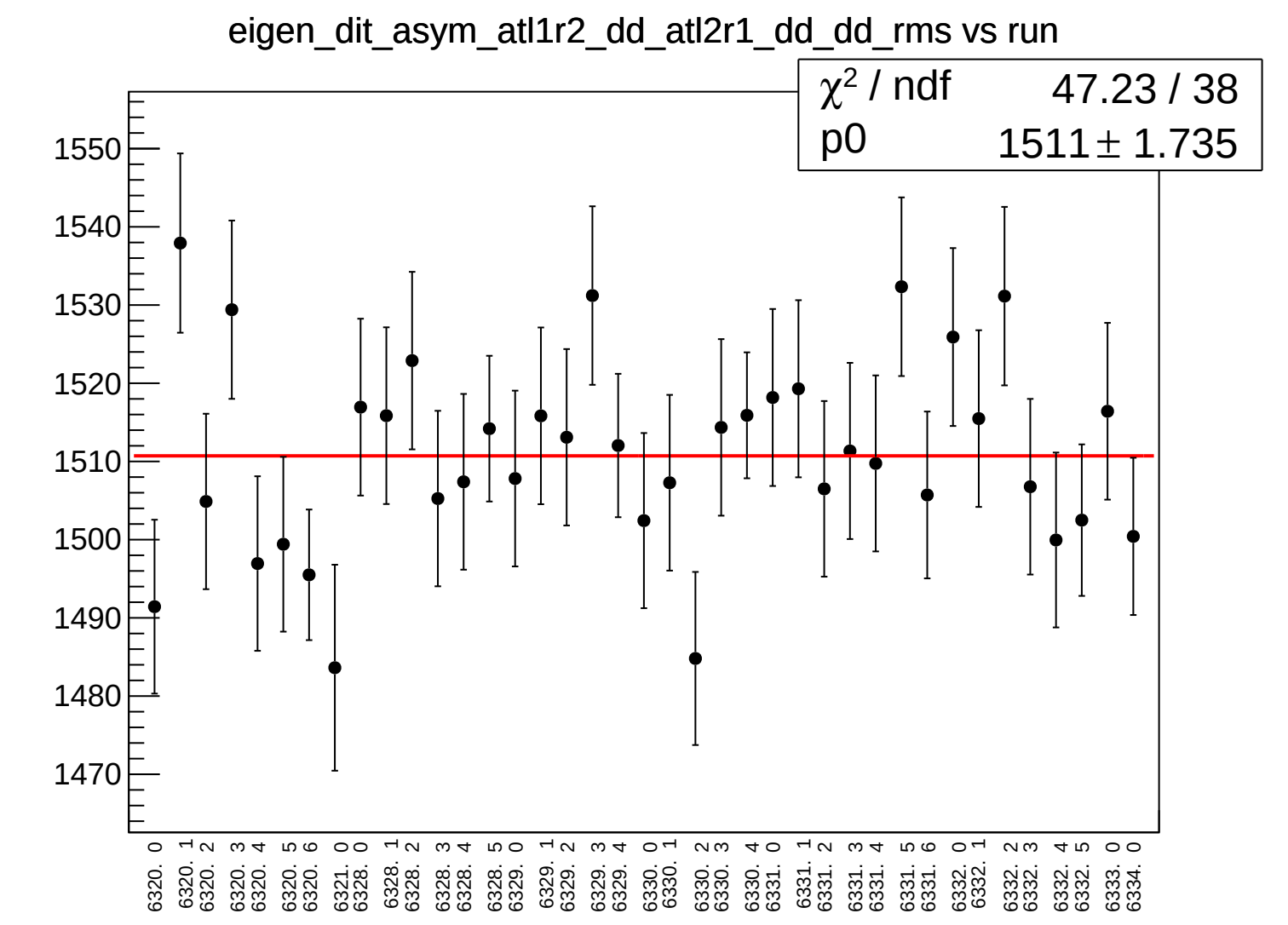

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

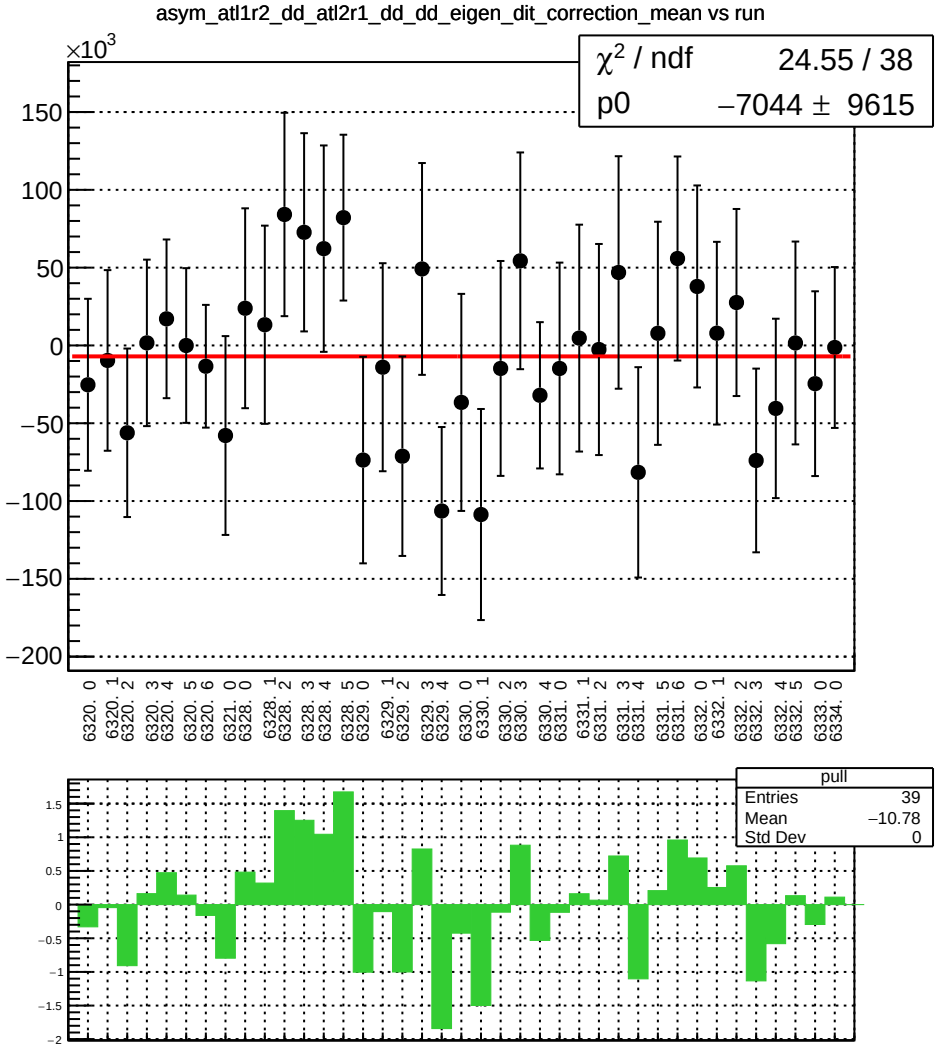

pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

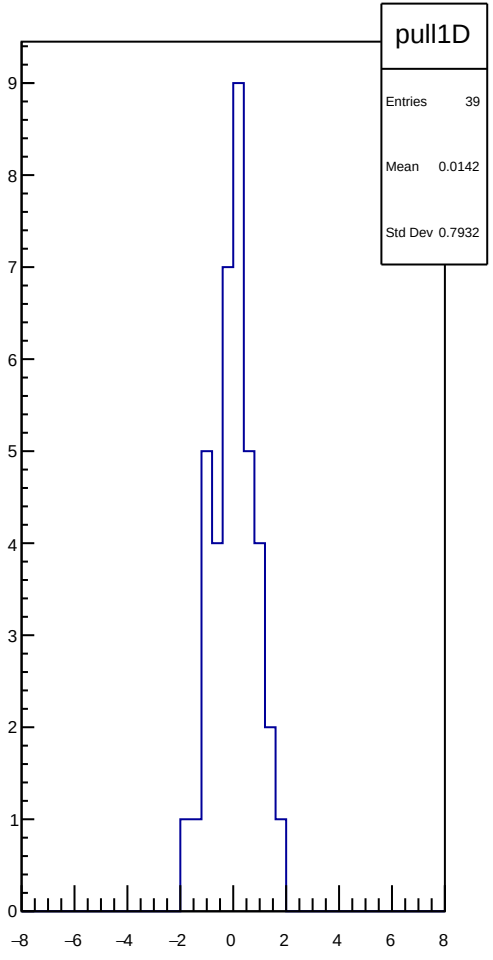

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

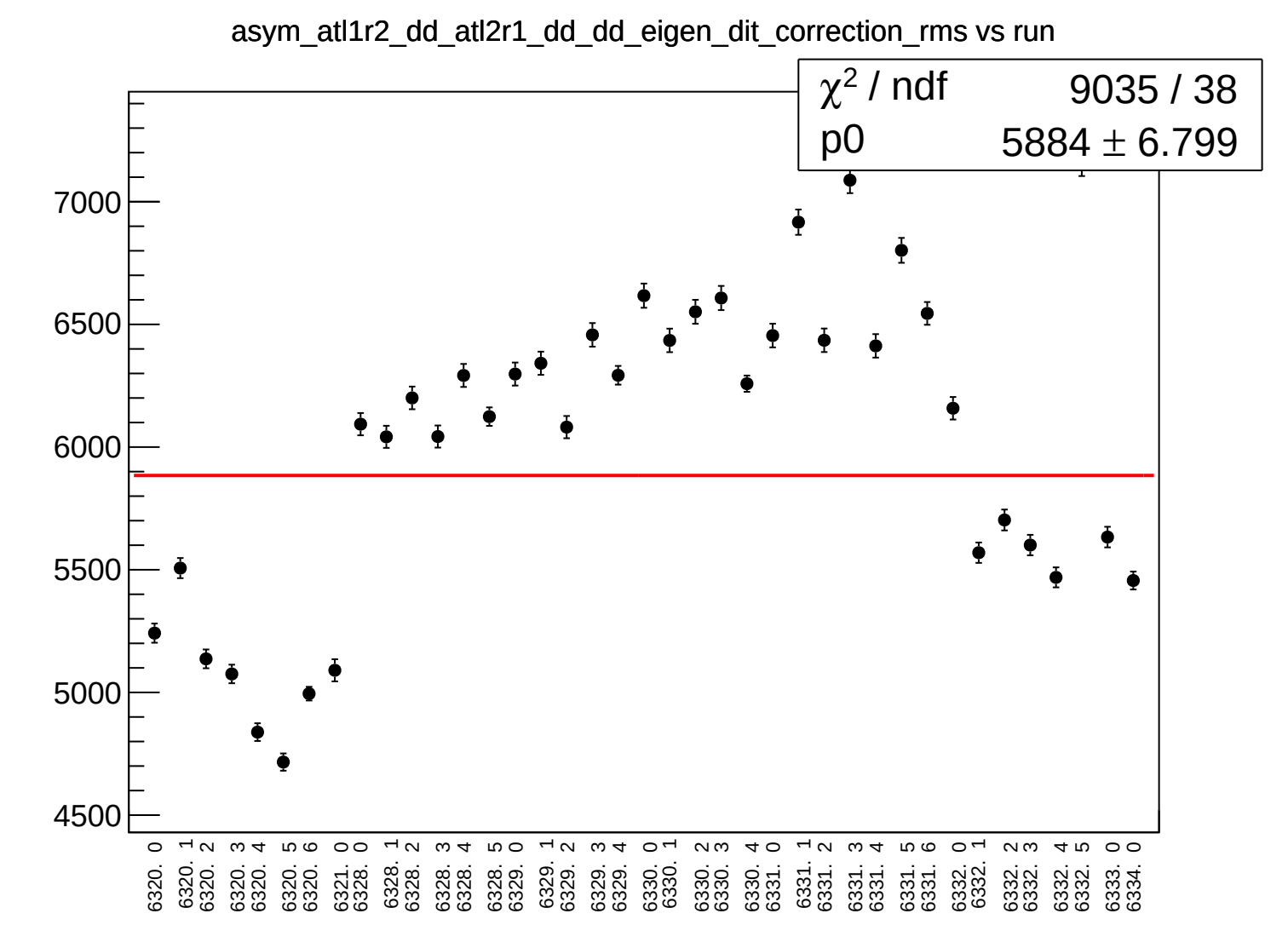

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 45.42 / 38
p0 1027 ± 2454
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.8
Std Dev 0
3
2
1
0
−1
−2

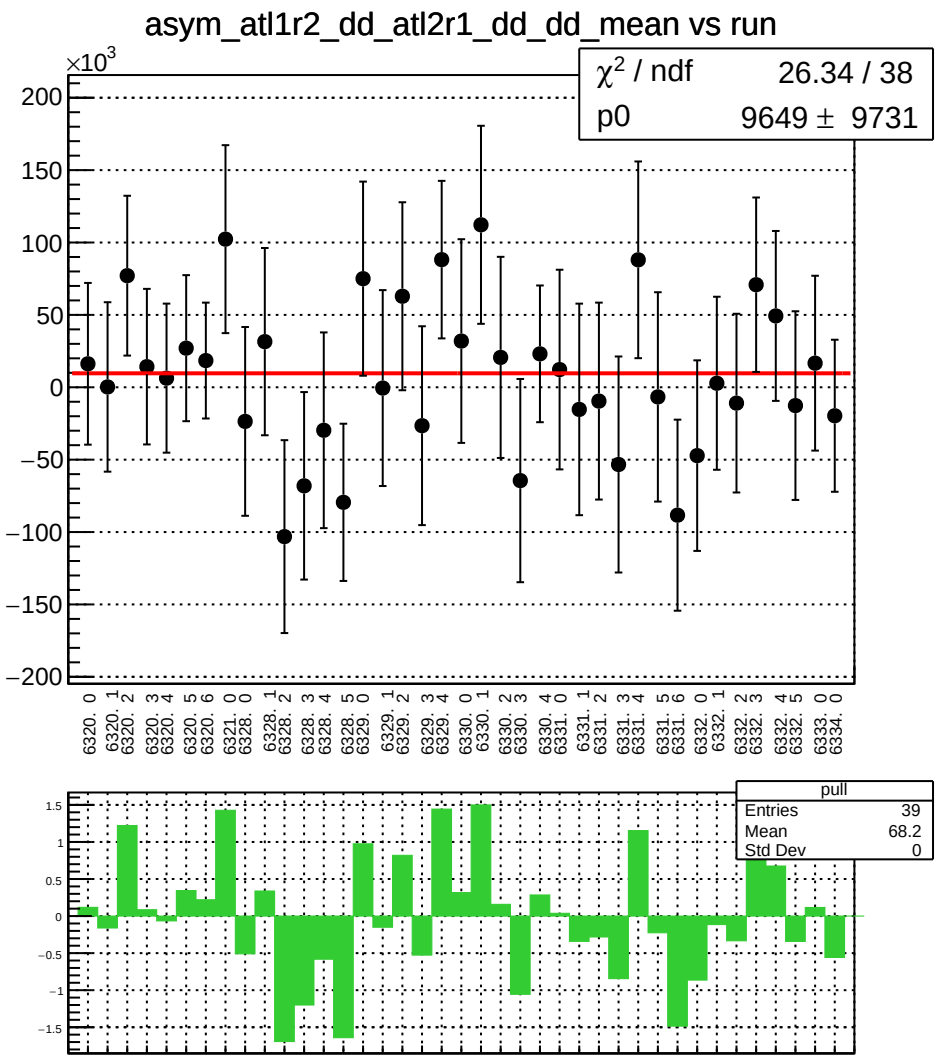

pull1D
Entries 39
Mean 0.03368
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

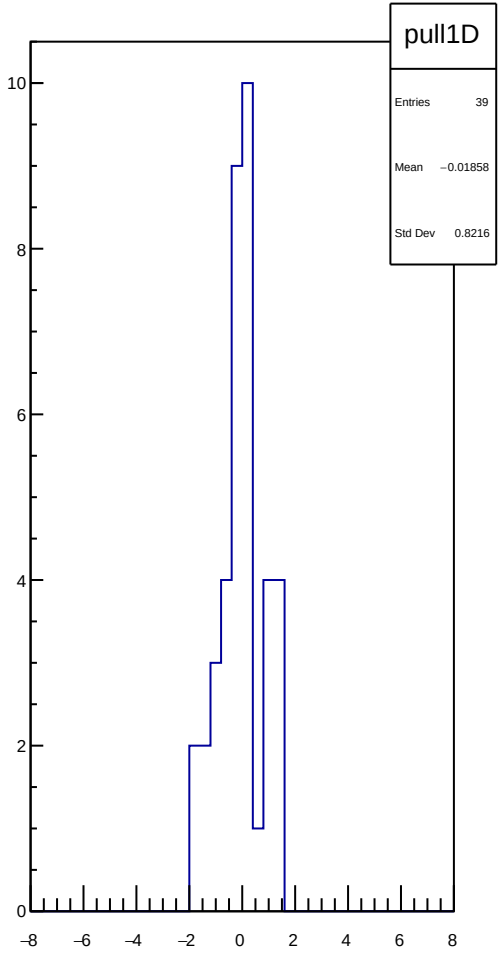

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 47.23 / 38
p0 1511 ± 1.735
1550
1540
1530
1520
1510
1500
1490
1480
1470
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

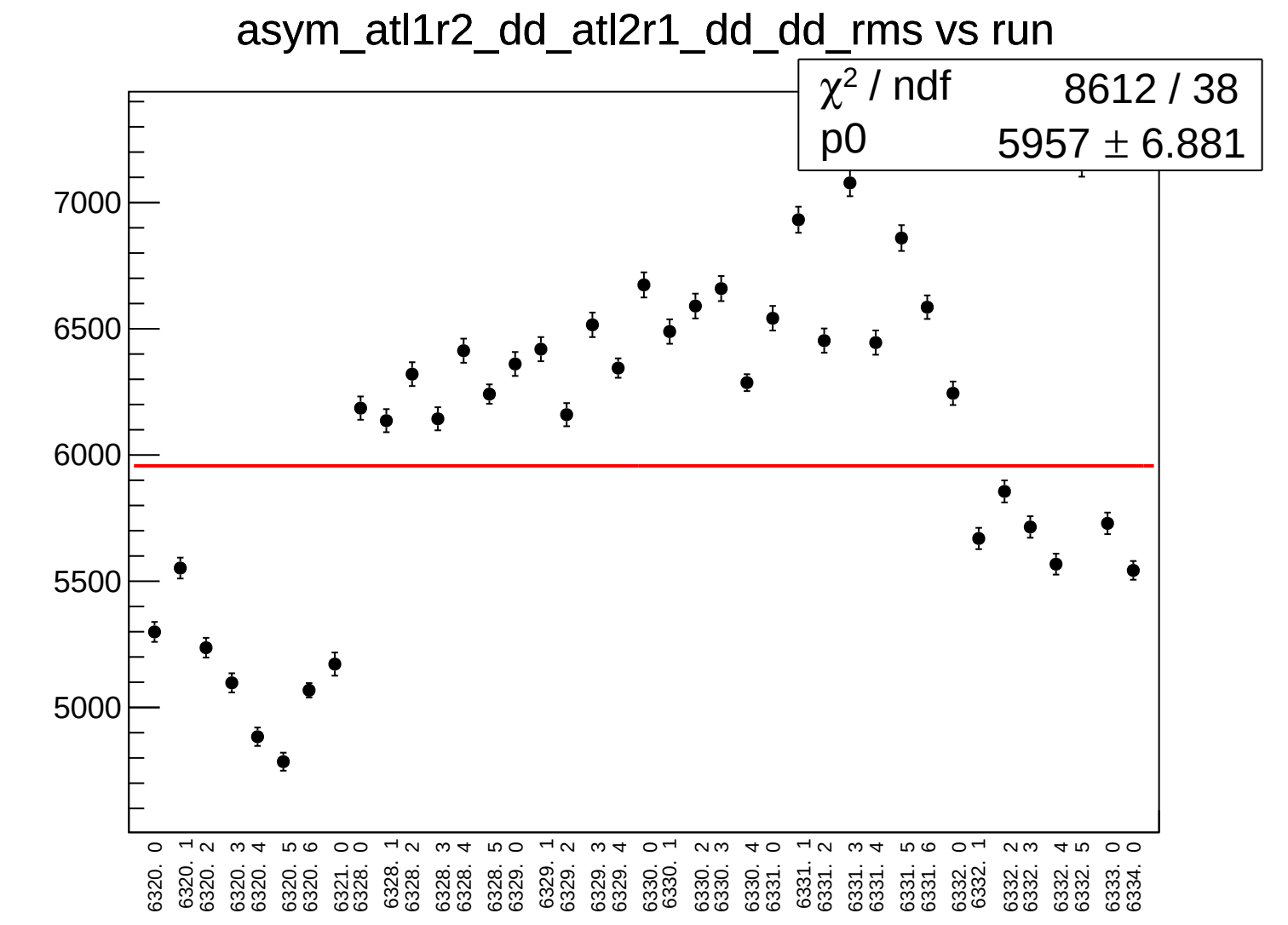

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.55 / 38
p0 −7044 ± 9615
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

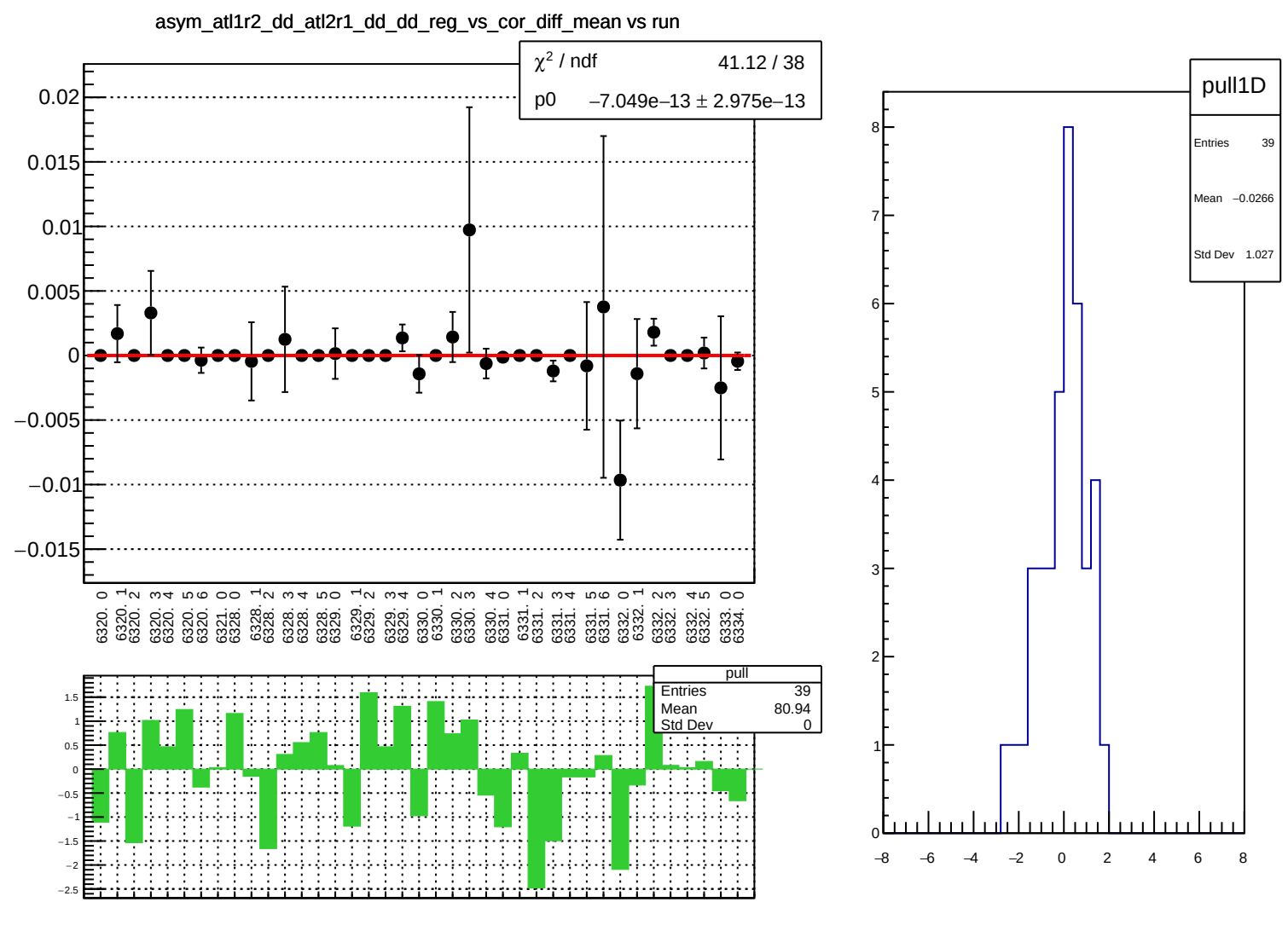

pull1D
Entries 39
Mean 0.0142
Std Dev 0.7932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

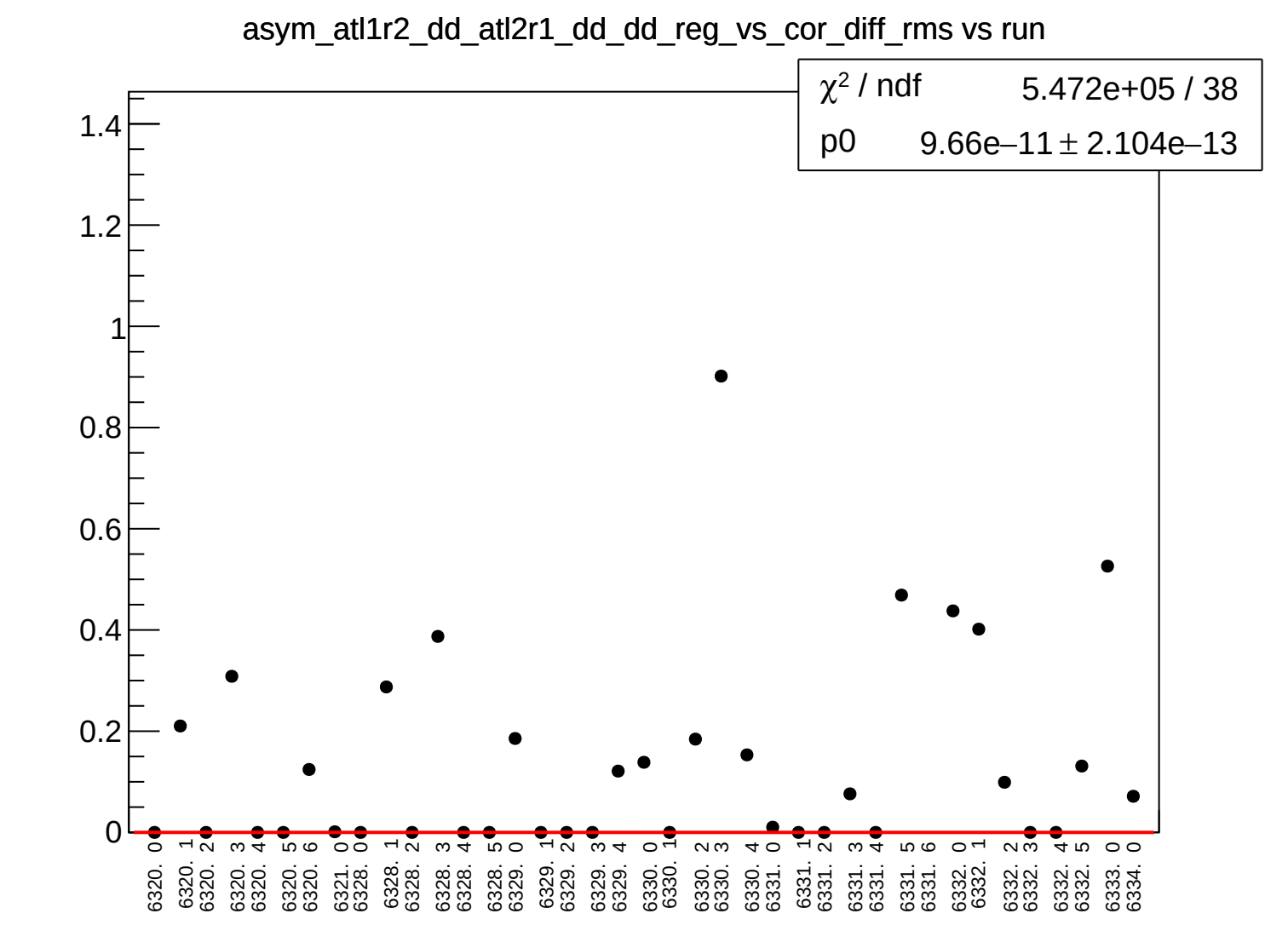

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9035 / 38
p0 5884 ± 6.799
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

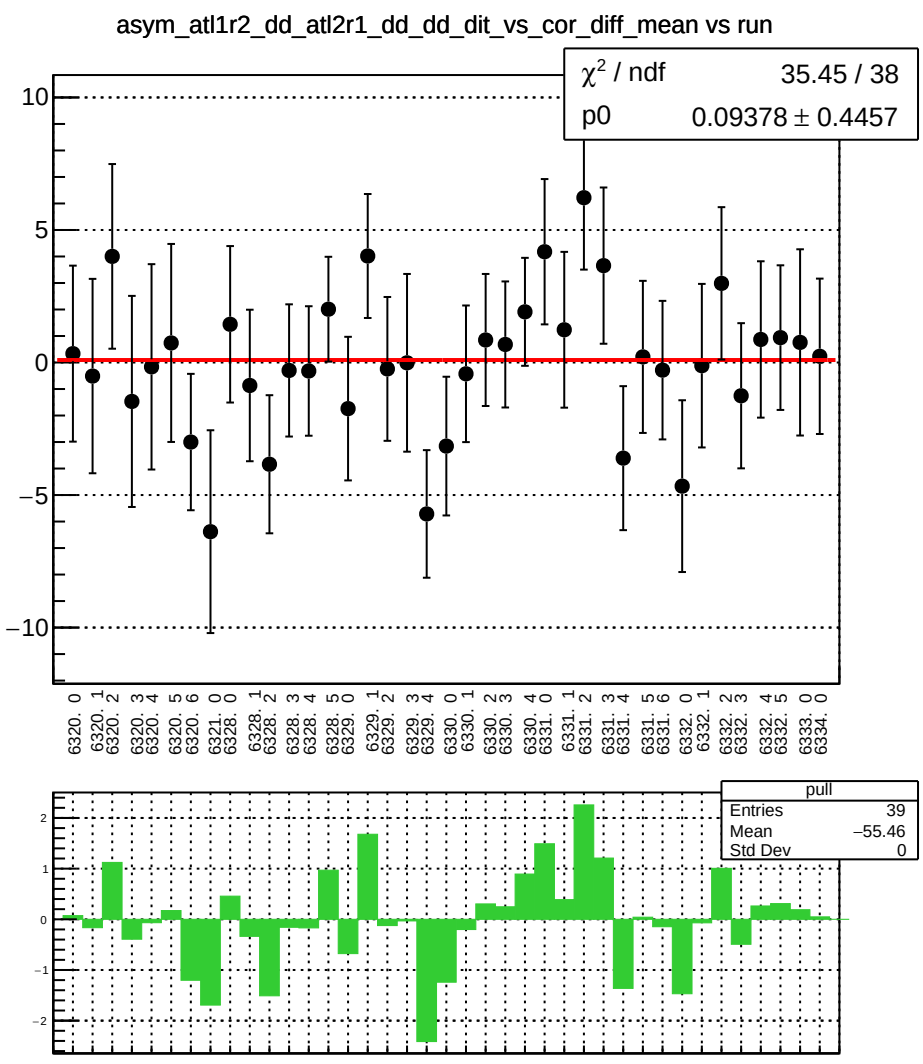

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 26.34 / 38
p0 9649 ± 9731
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

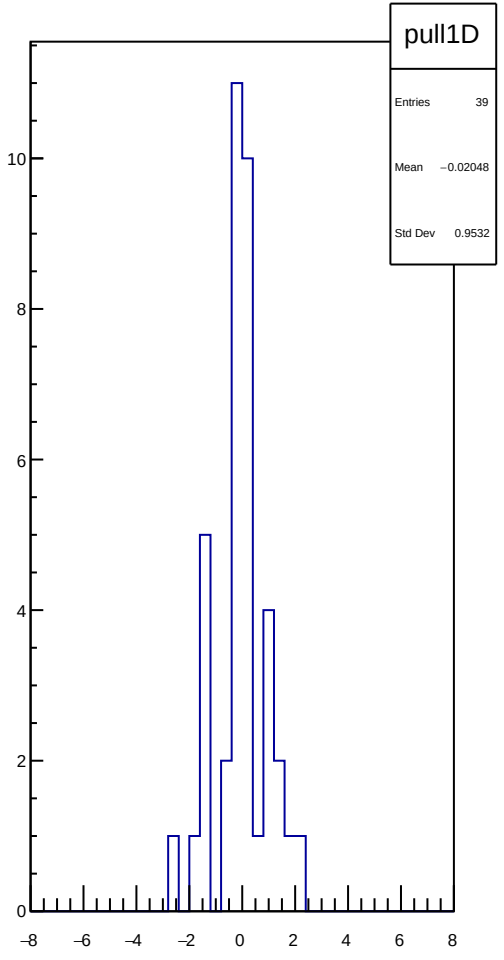

pull1D
Entries 39
Mean −0.01858
Std Dev 0.8216
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

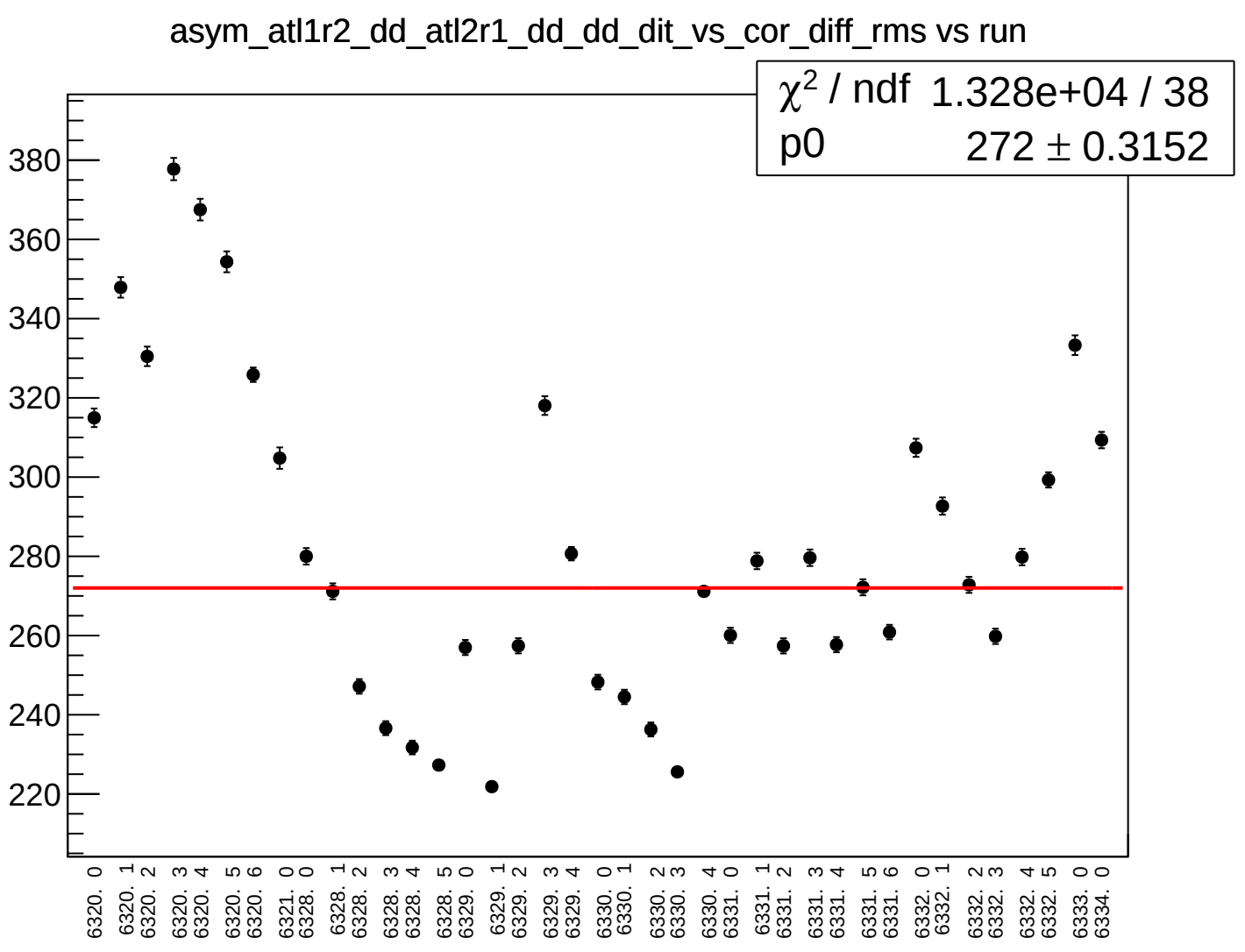

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 8612 / 38
p0 5957 ± 6.881
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

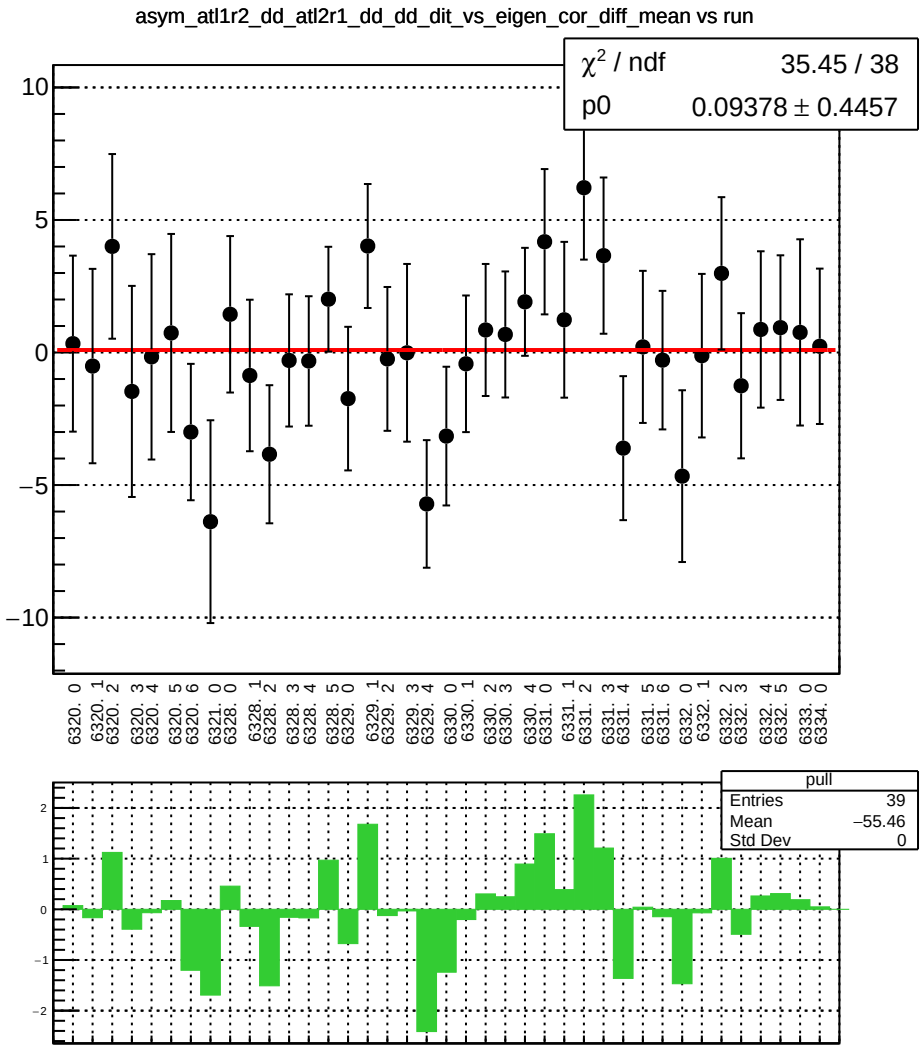

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.12 / 38
p0 −7.049e−13 ± 2.975e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 80.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.0266
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

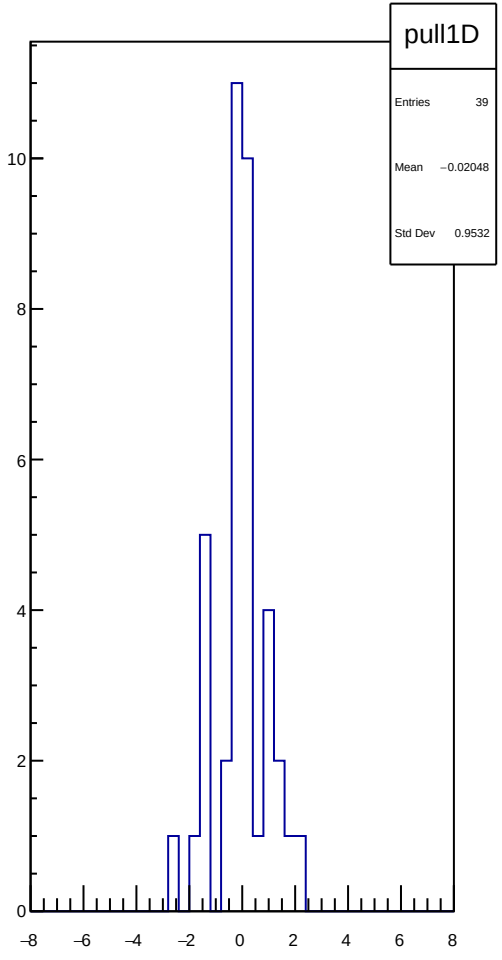

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.472e+05 / 38
p0 9.66e−11 ± 2.104e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

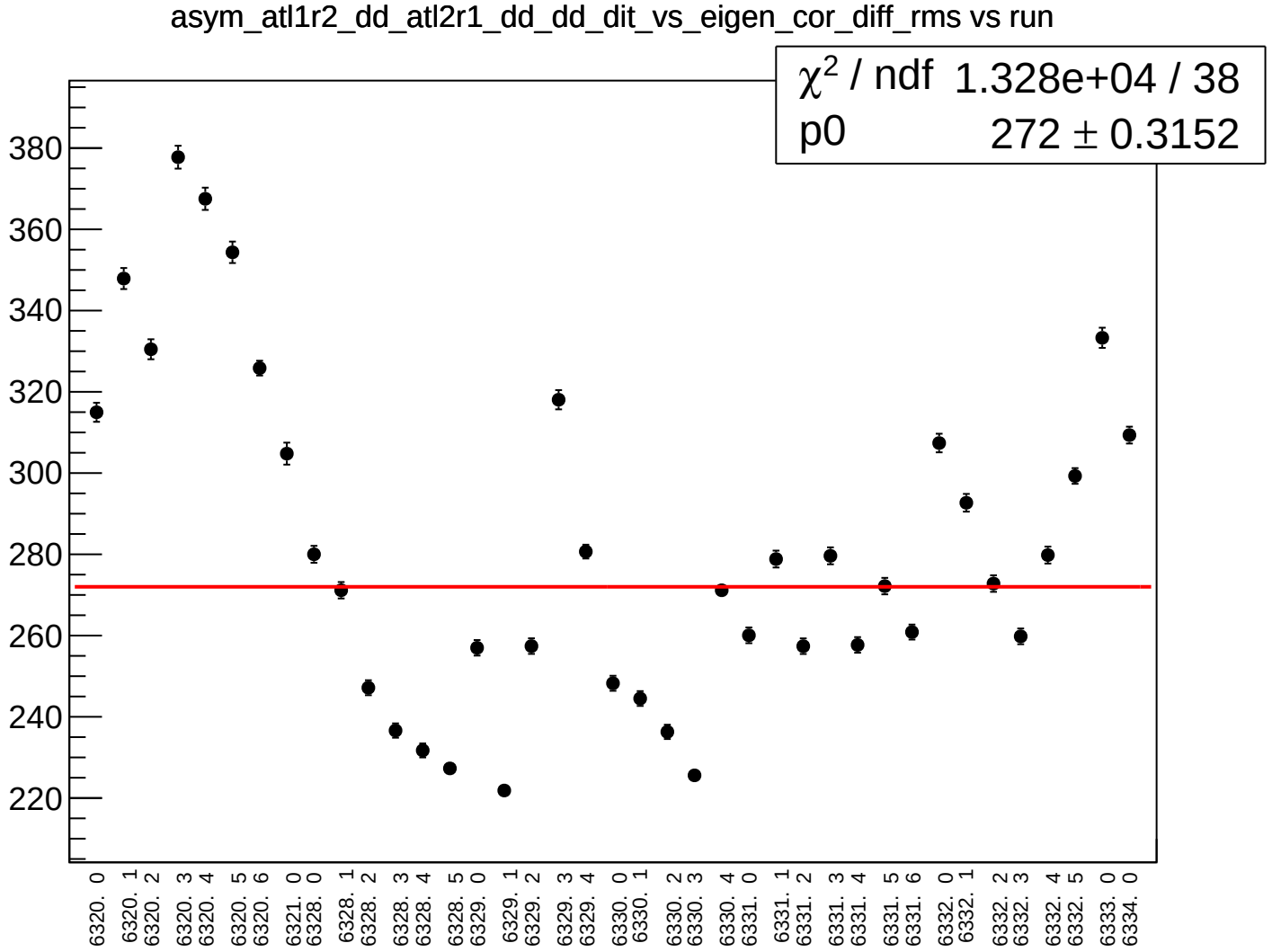

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2

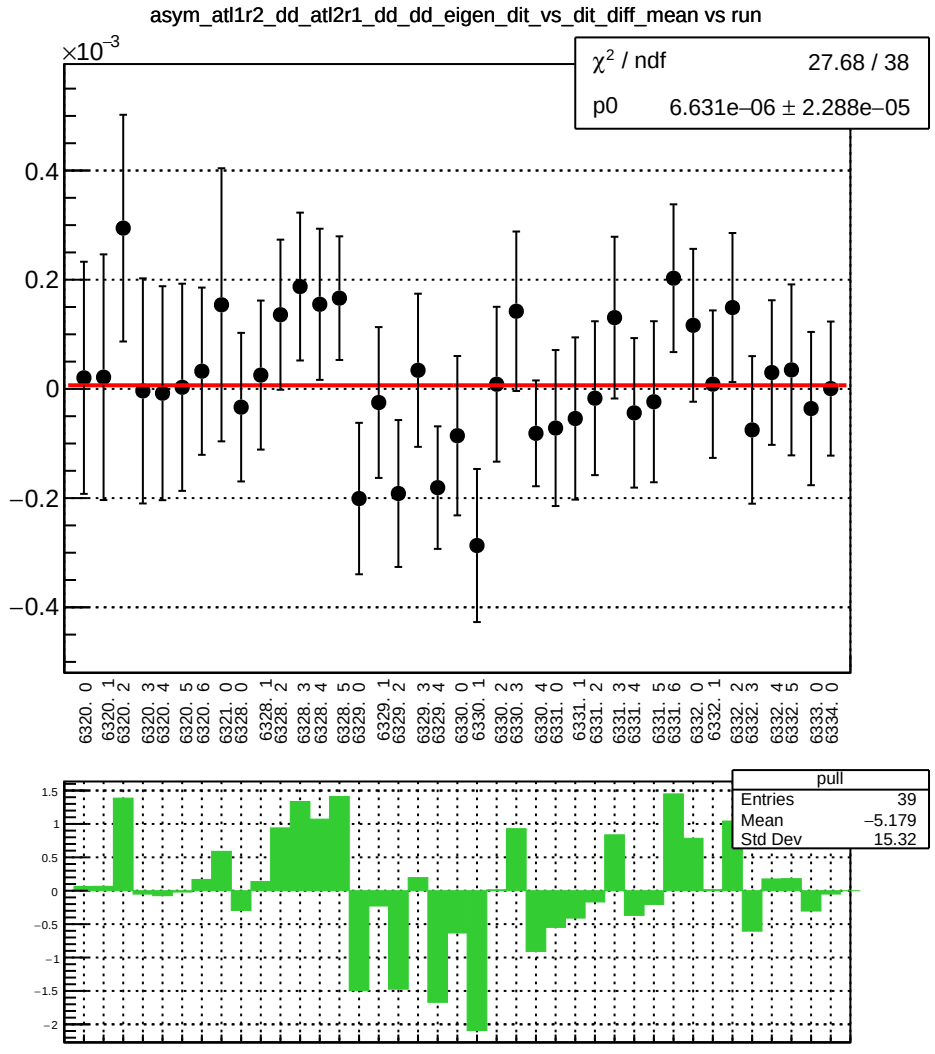

pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

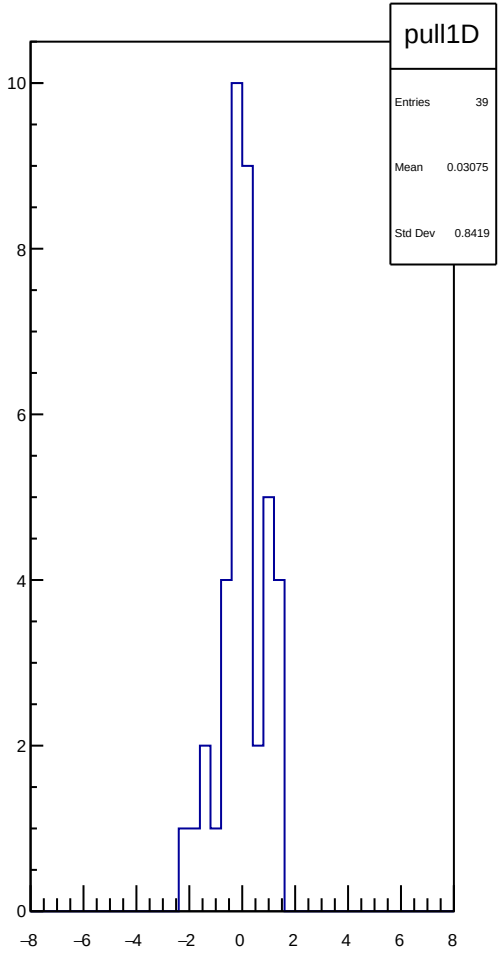

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

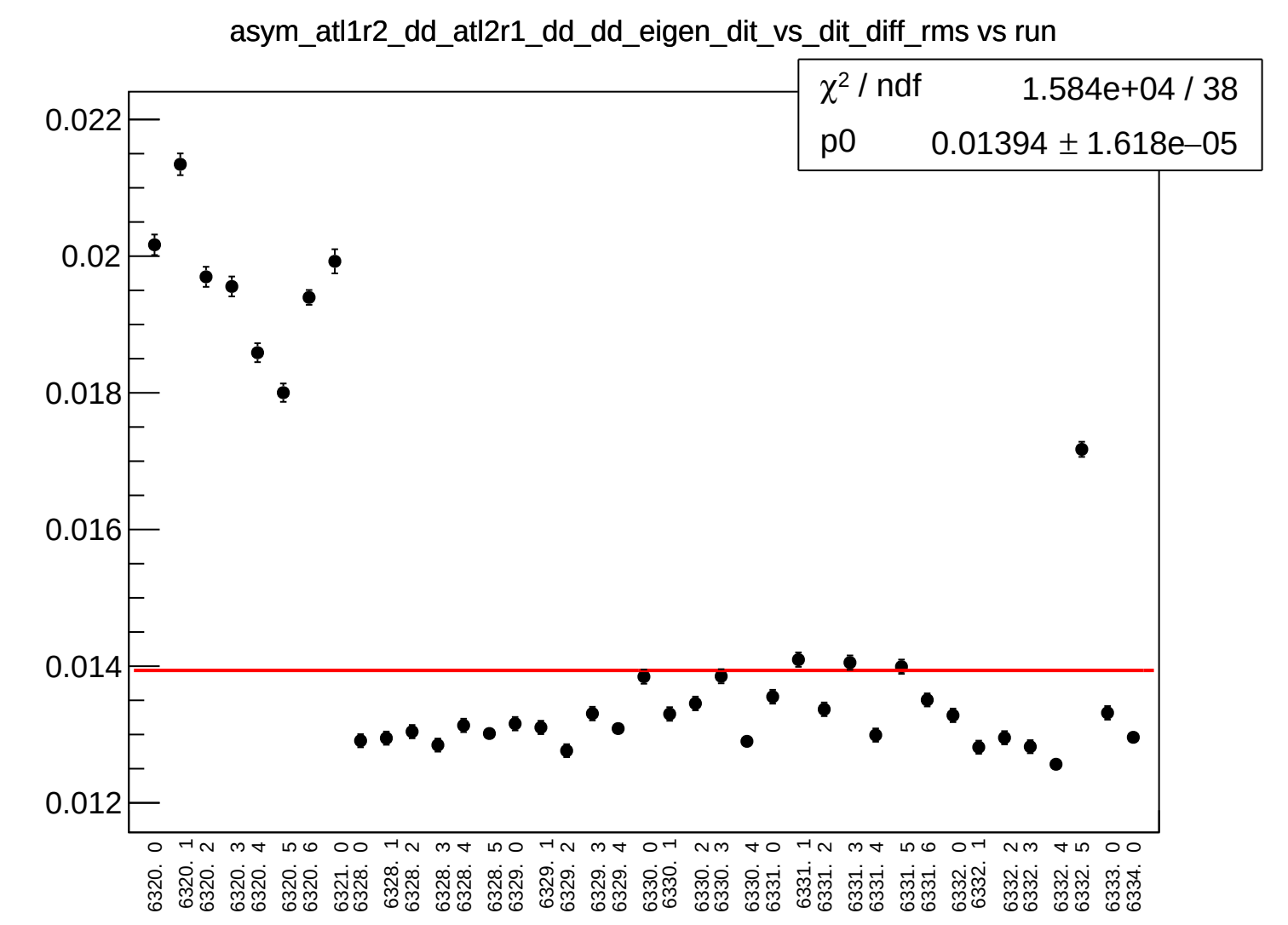

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.46
Std Dev 0
2
1
0
−1
−2

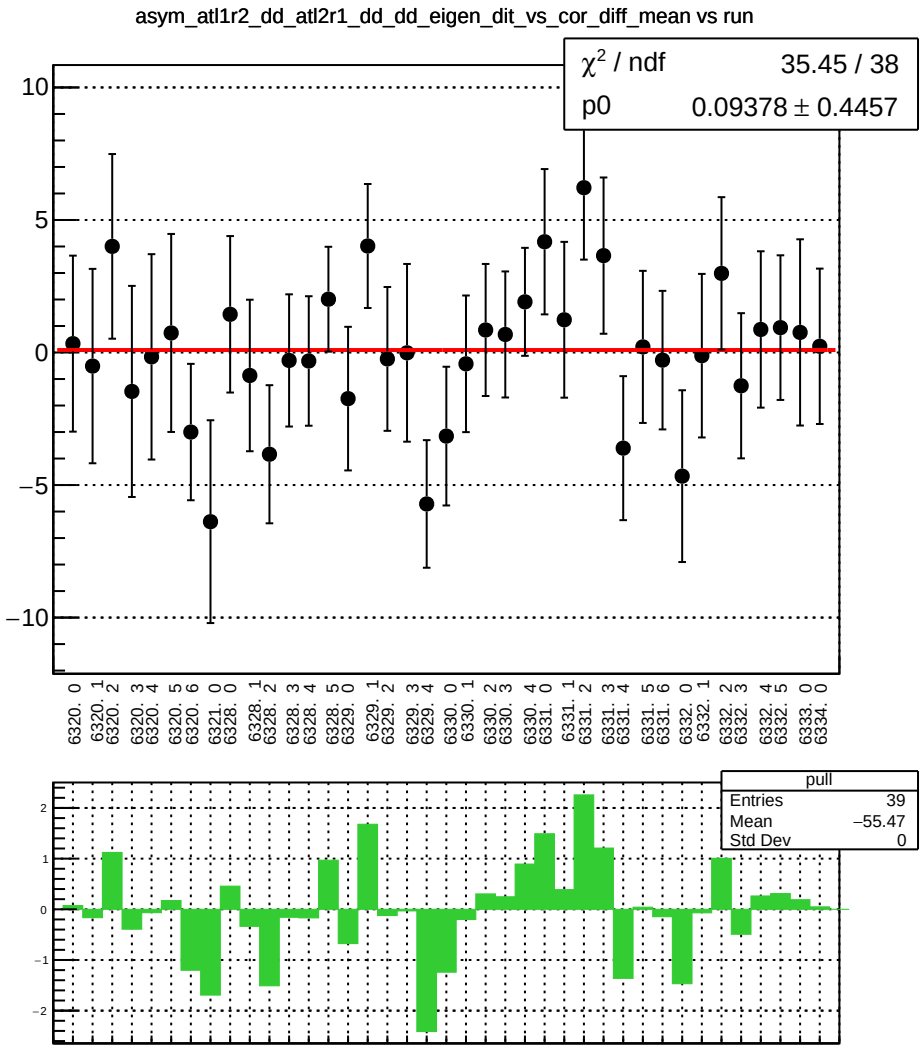

pull1D
Entries 39
Mean −0.02048
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

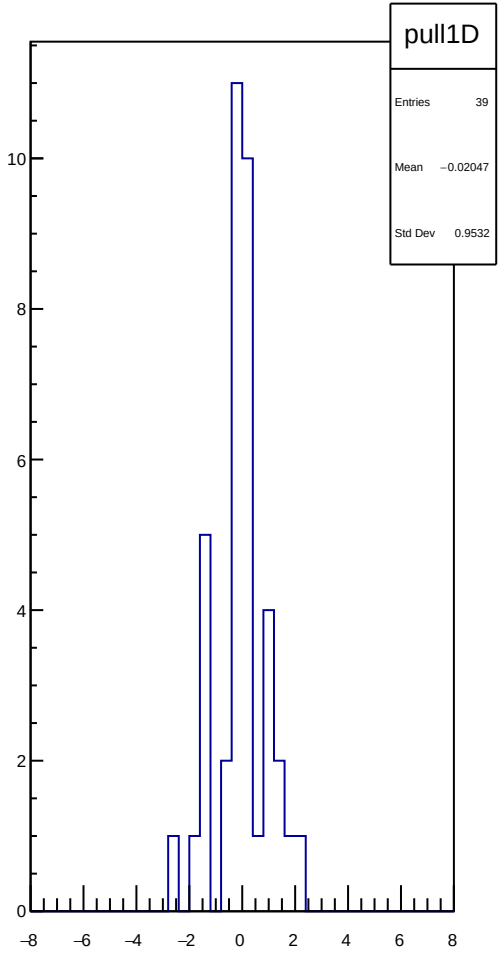

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

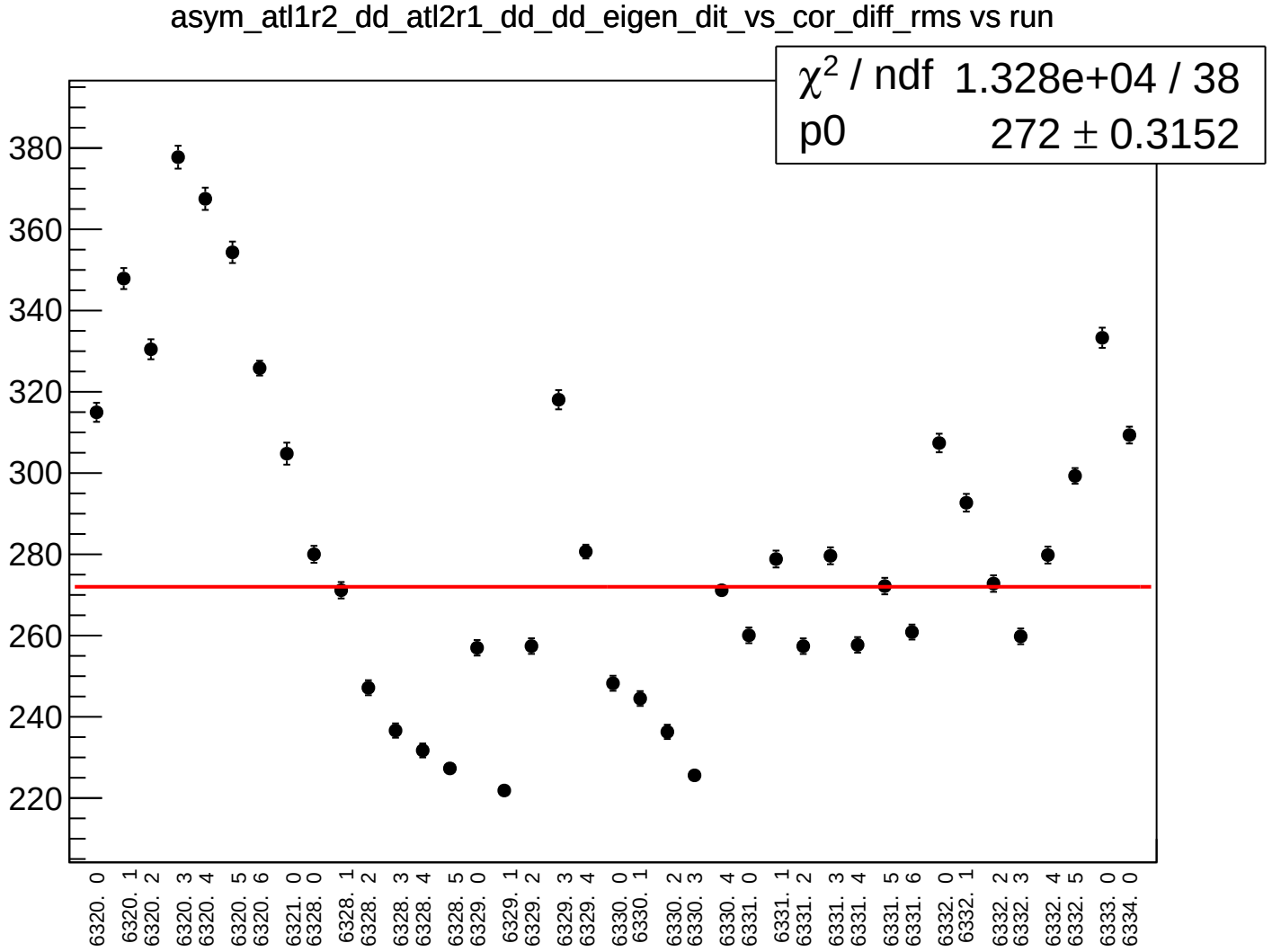

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.68 / 38
p0 6.631e−06 ± 2.288e−05
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.179
Std Dev 15.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

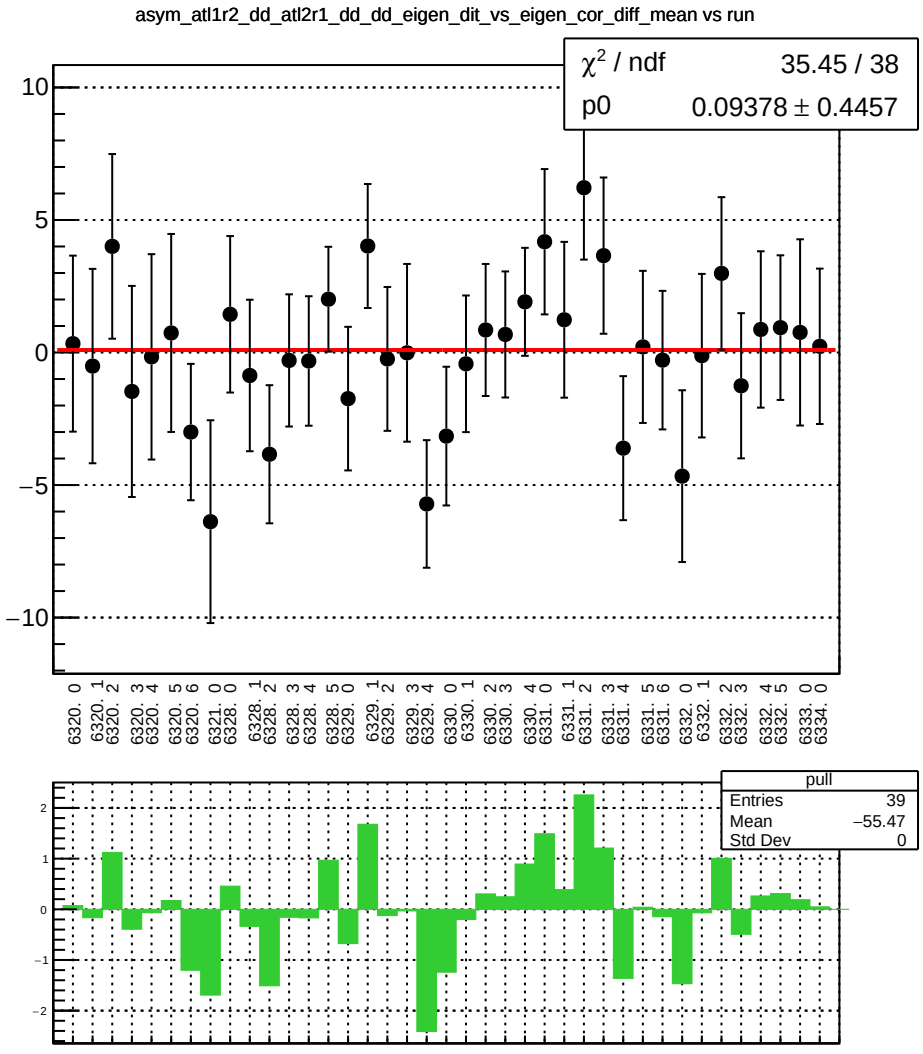

pull1D
Entries 39
Mean 0.03075
Std Dev 0.8419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

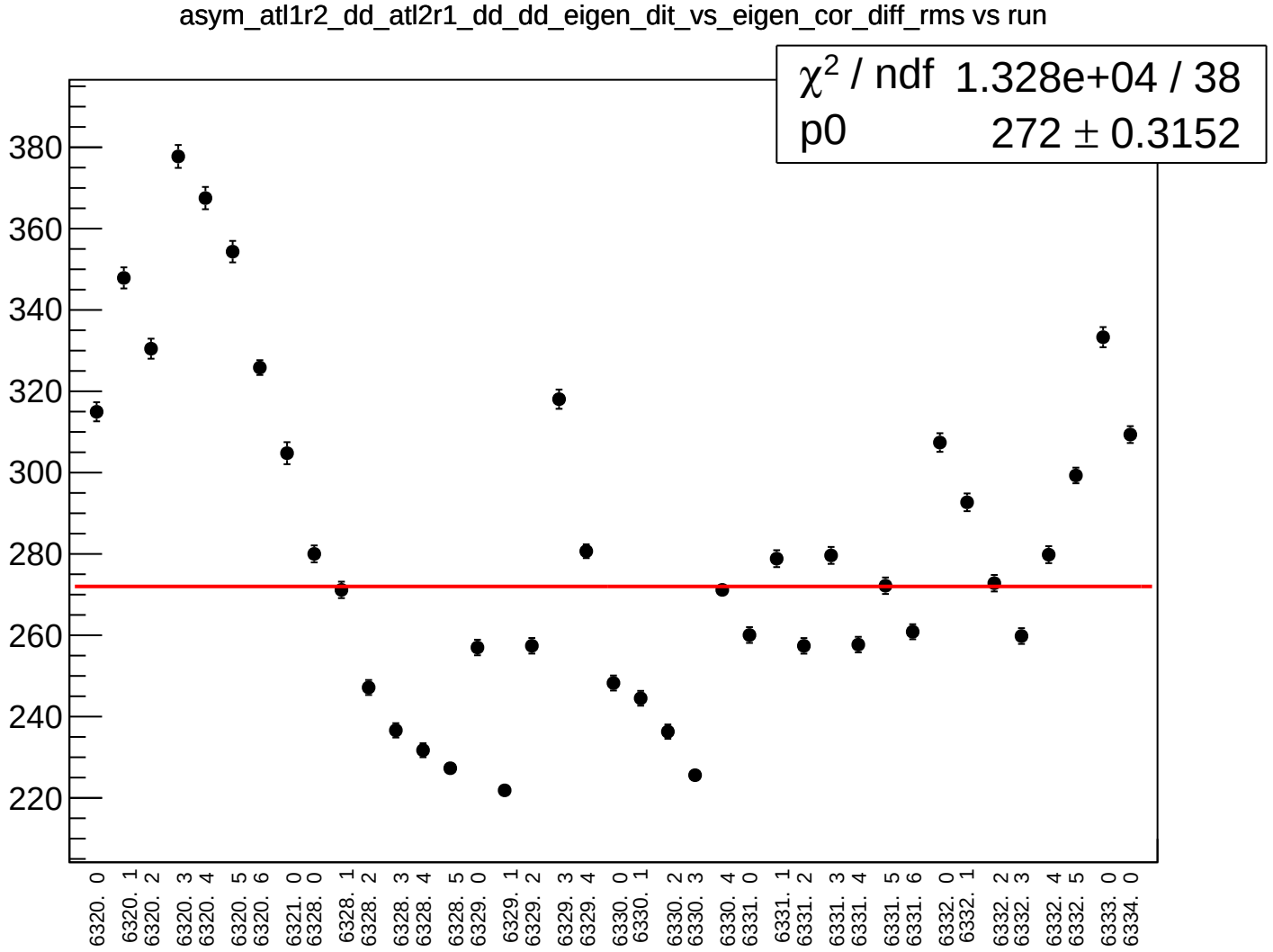

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.584e+04 / 38
p0 0.01394 ± 1.618e−05
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

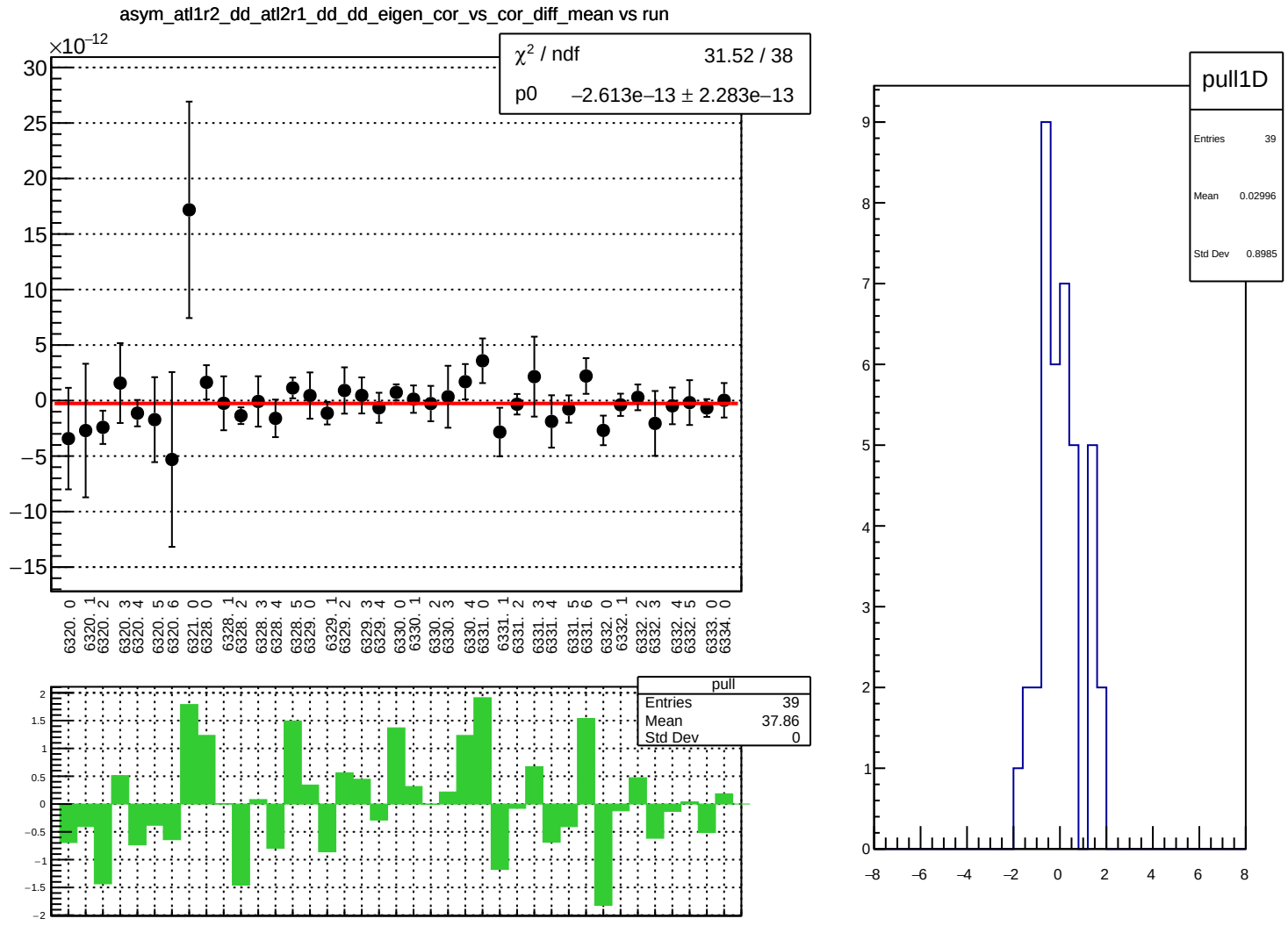

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2

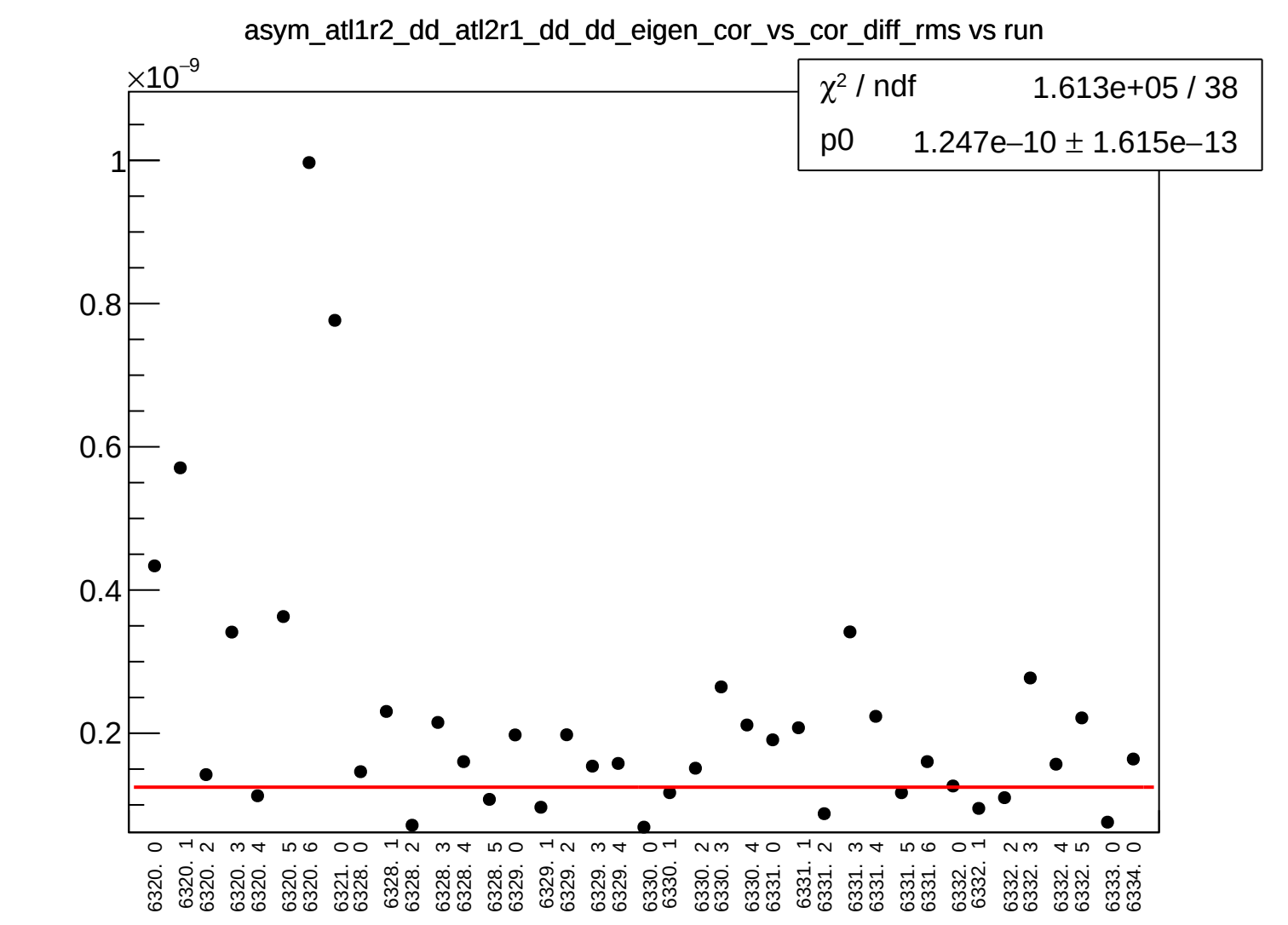

pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

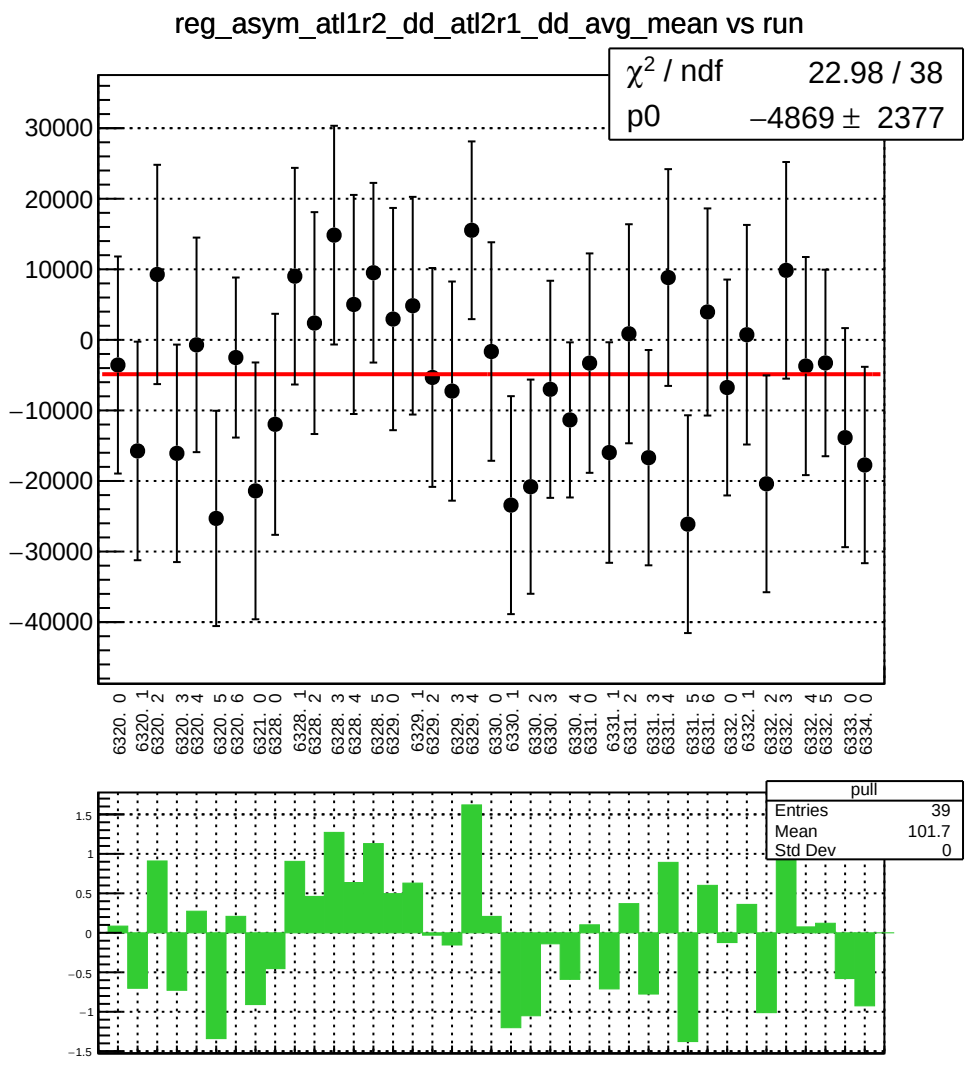

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

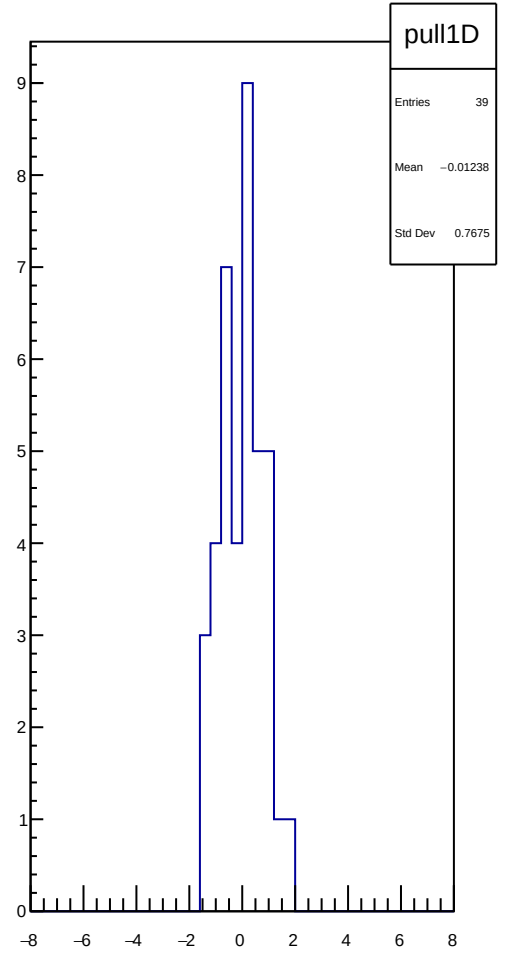

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 38
p0 0.09378 ± 0.4457
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02047
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

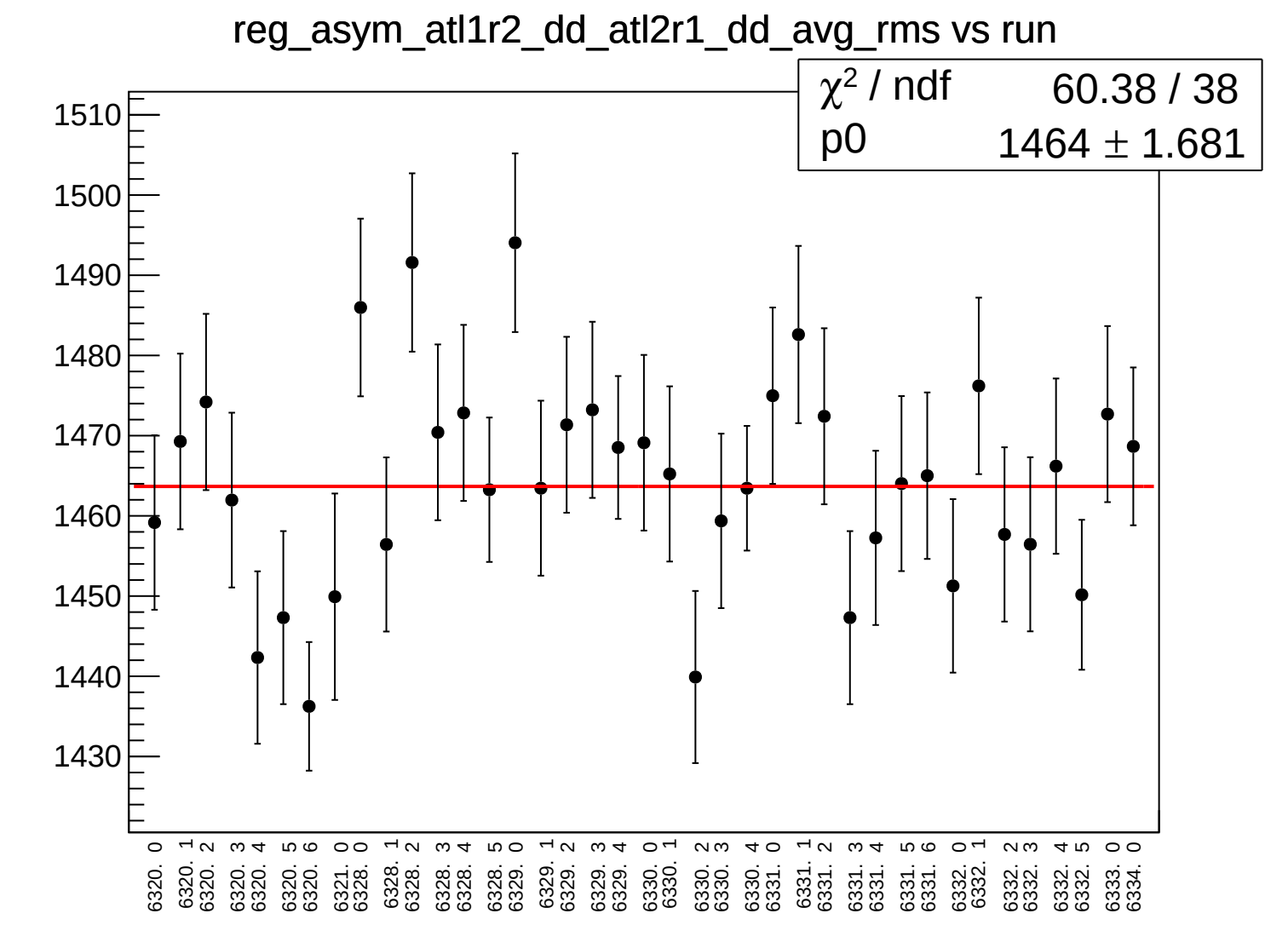

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 38
p0 272 ± 0.3152
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

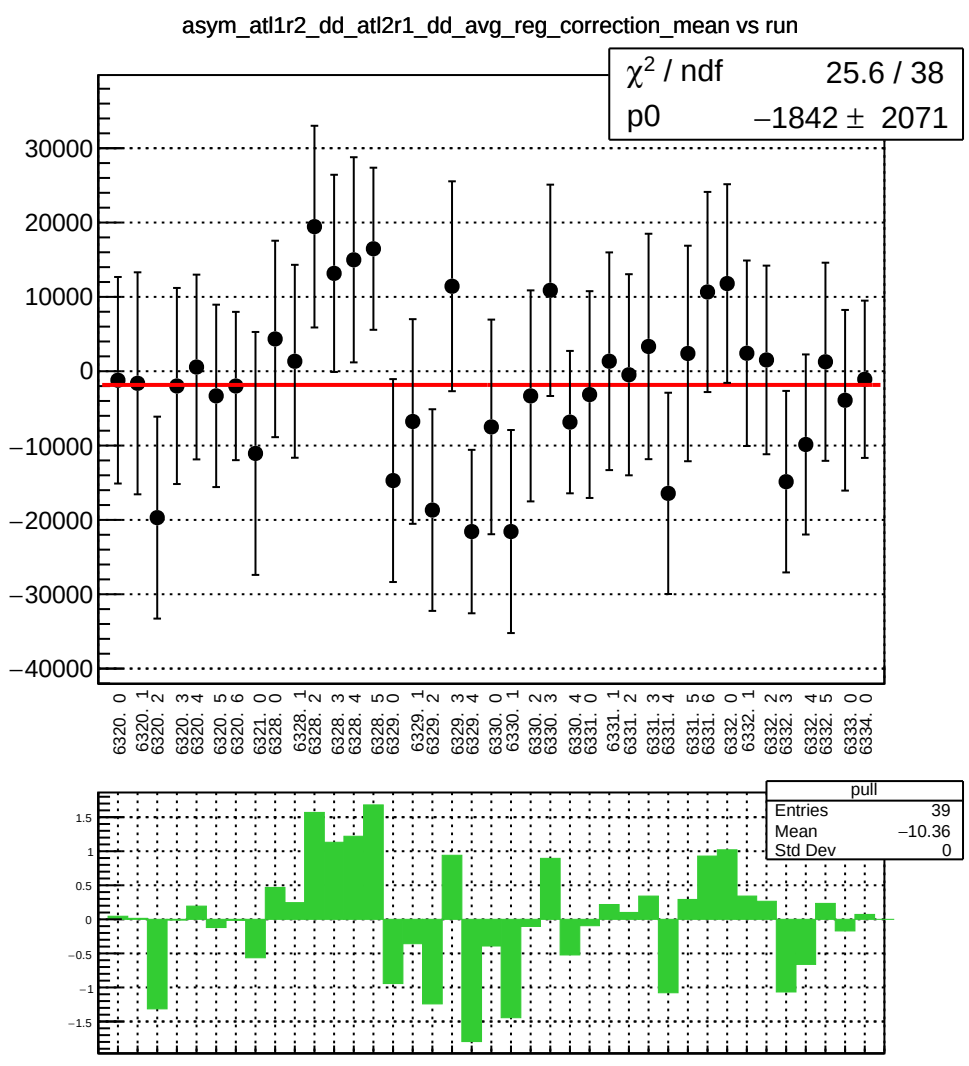

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 31.52 / 38
p0 −2.613e−13 ± 2.283e−13
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.86
Std Dev 0
pull1D
Entries 39
Mean 0.02996
Std Dev 0.8985

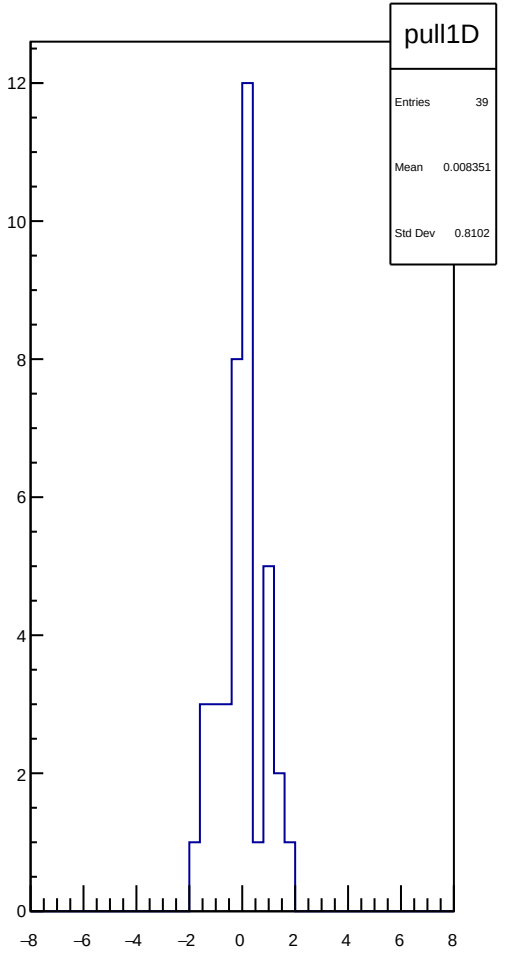

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.613e+05 / 38
p0 1.247e−10 ± 1.615e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

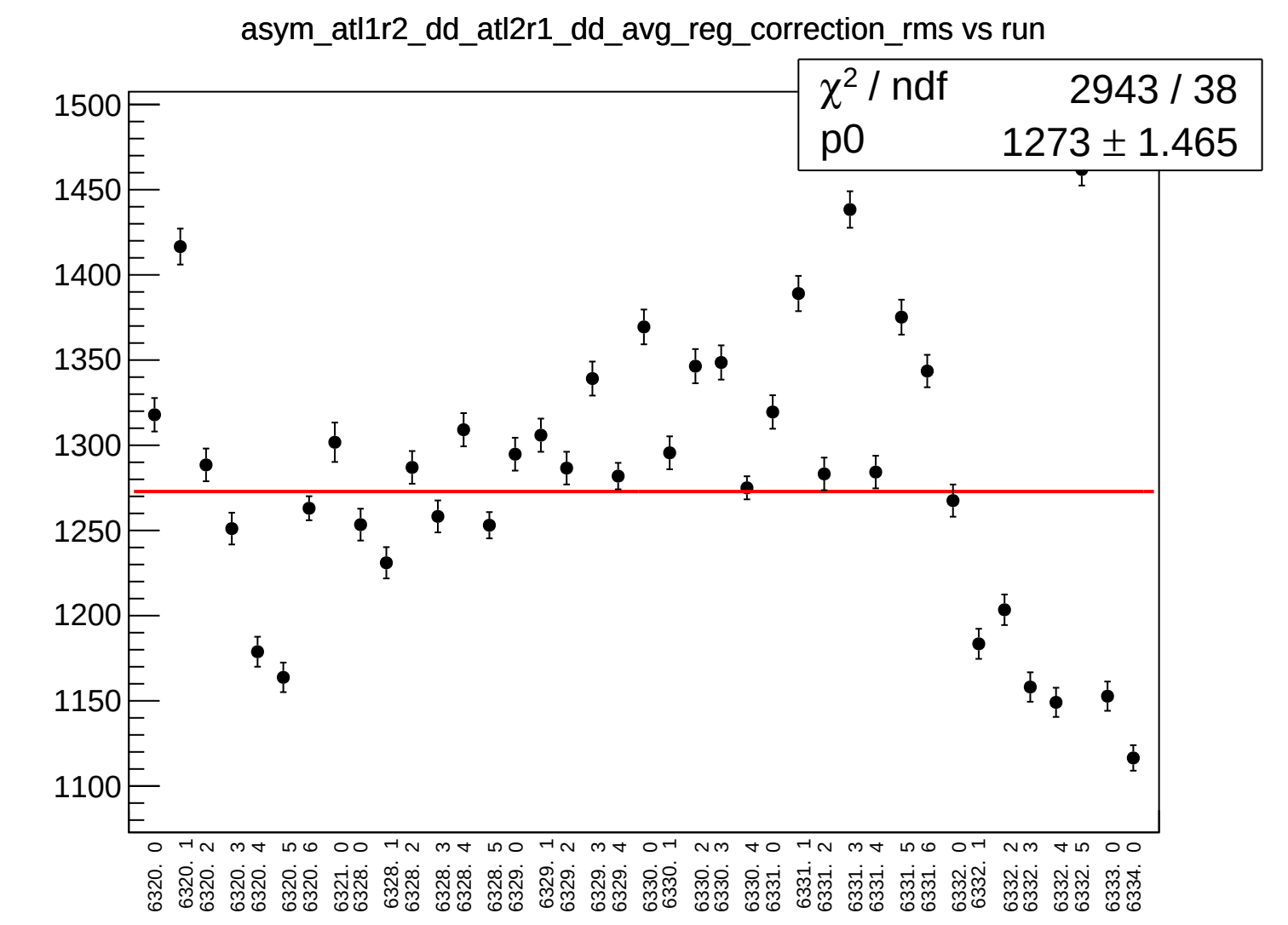

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

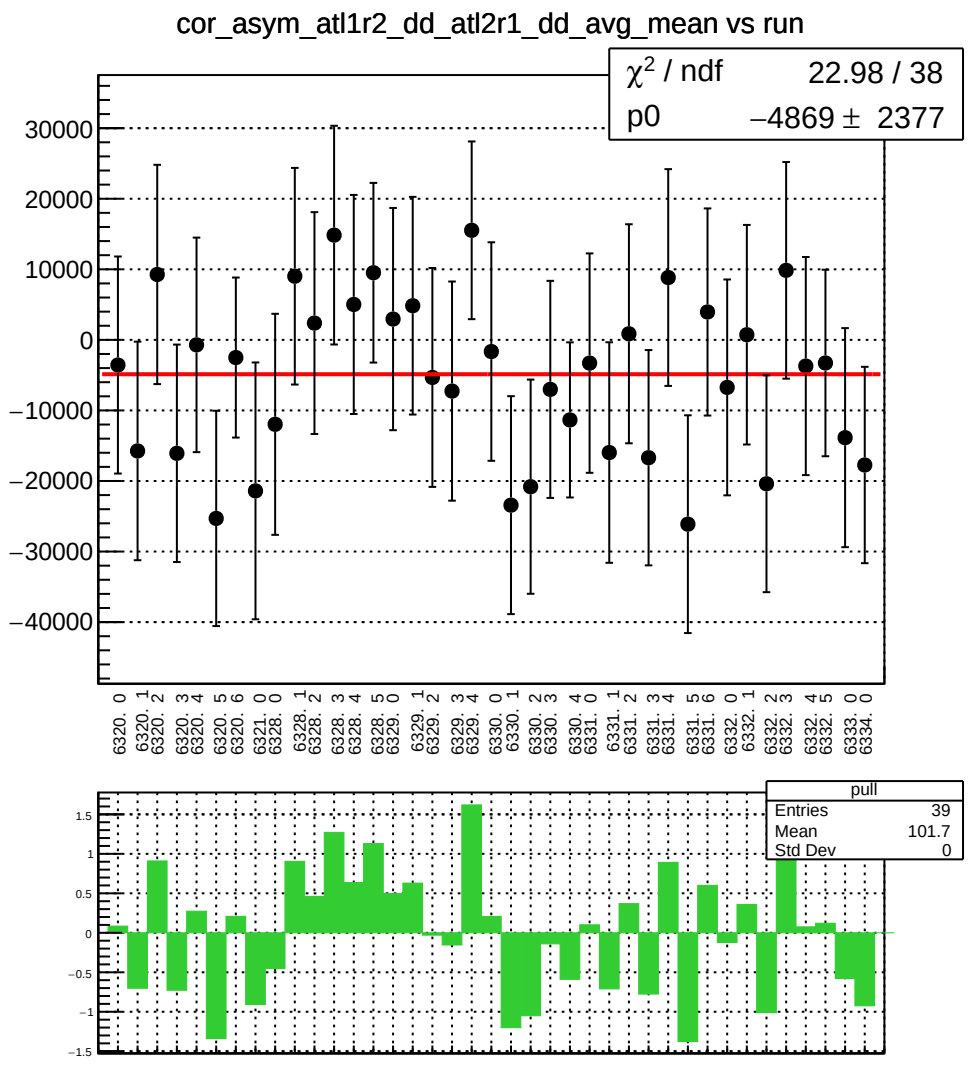

pull1D
Entries 39
Mean −0.01238
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

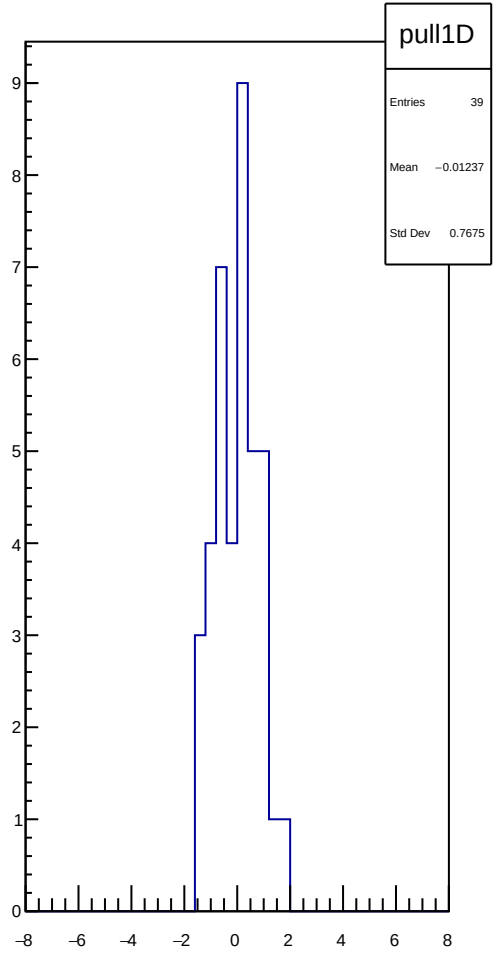

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

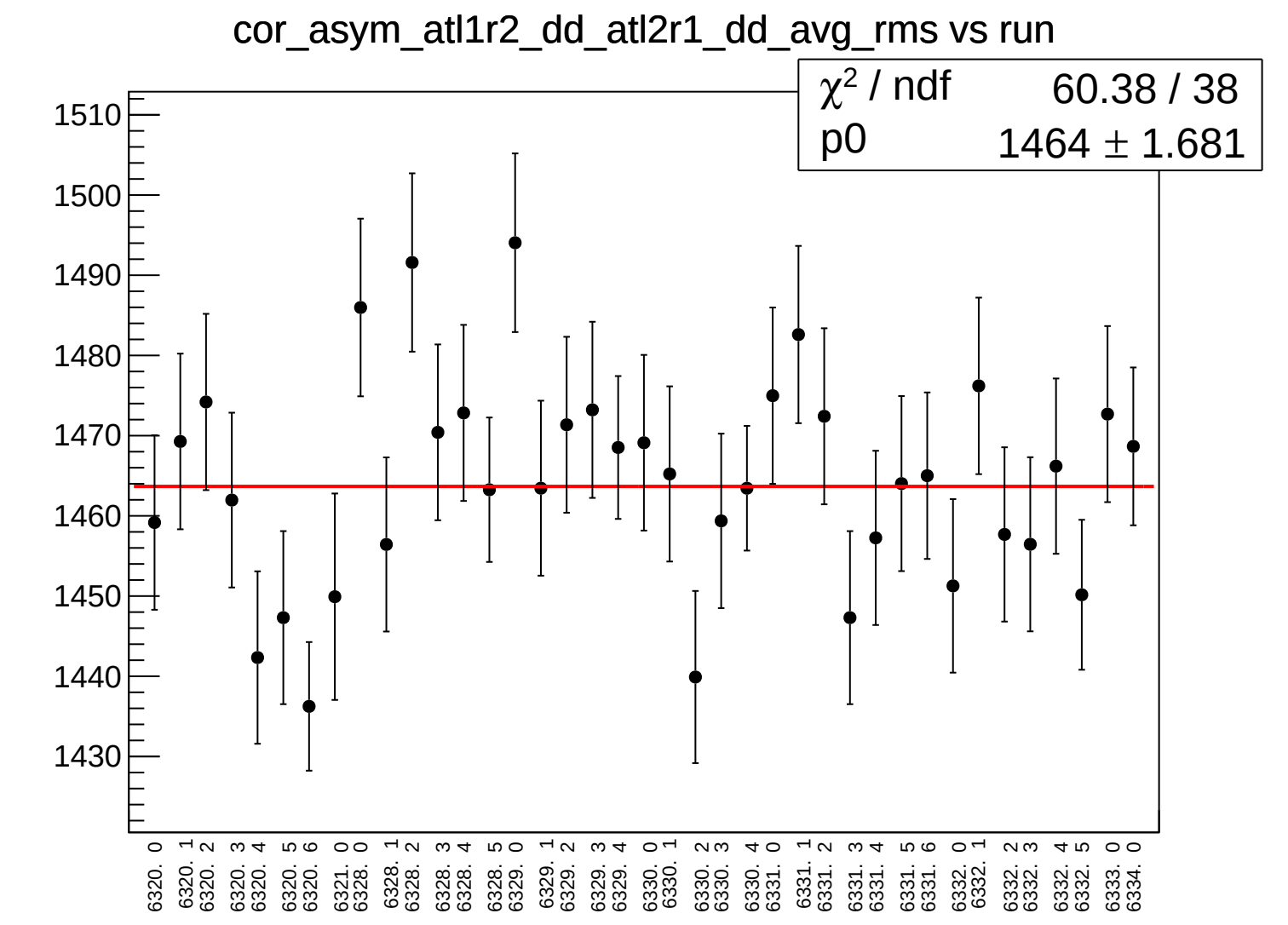

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

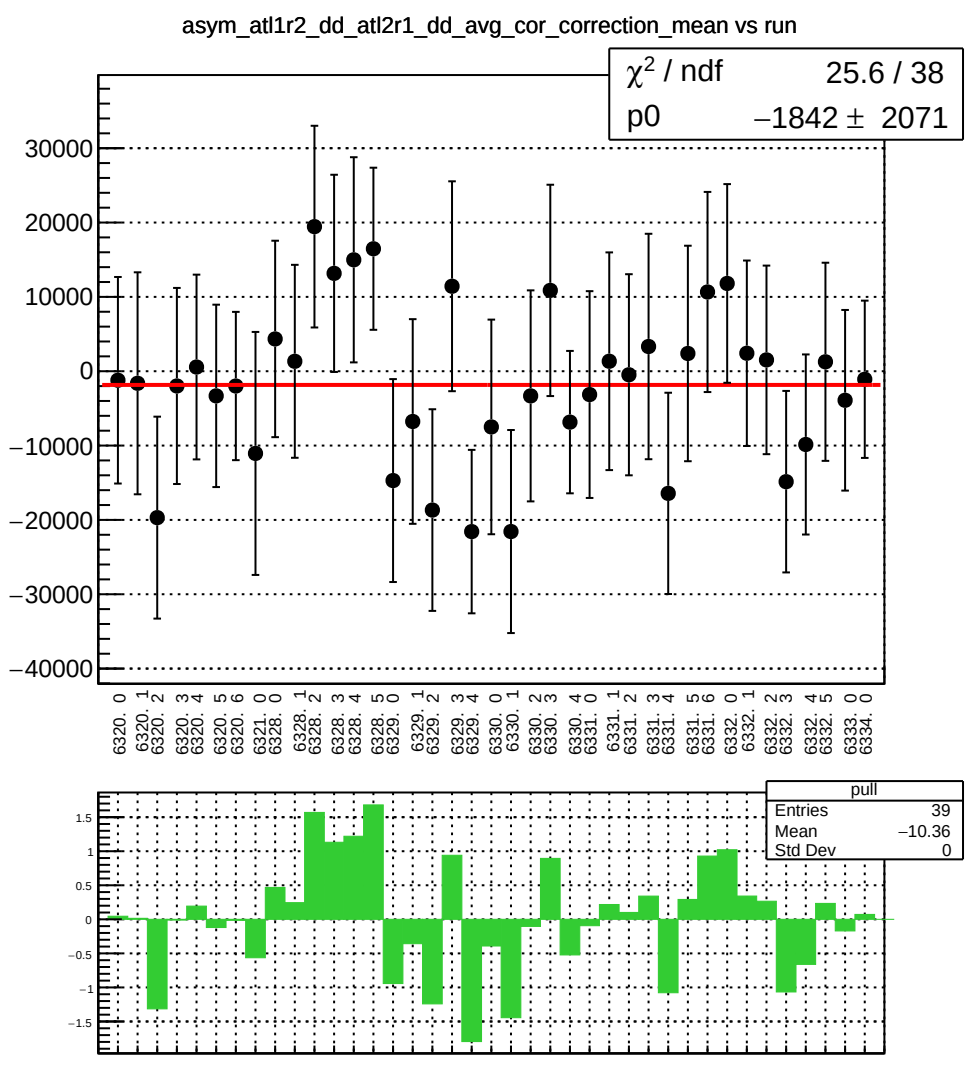

pull1D
Entries 39
Mean 0.008351
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

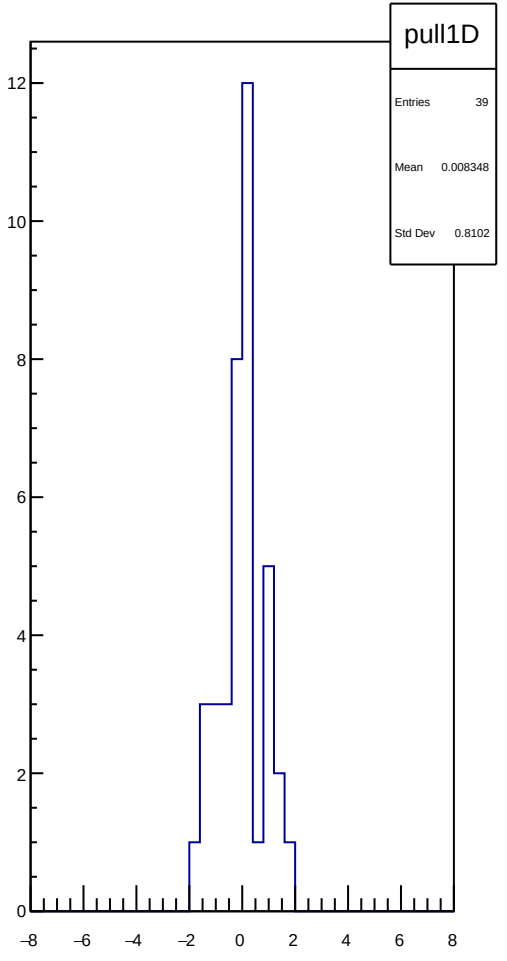

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2943 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

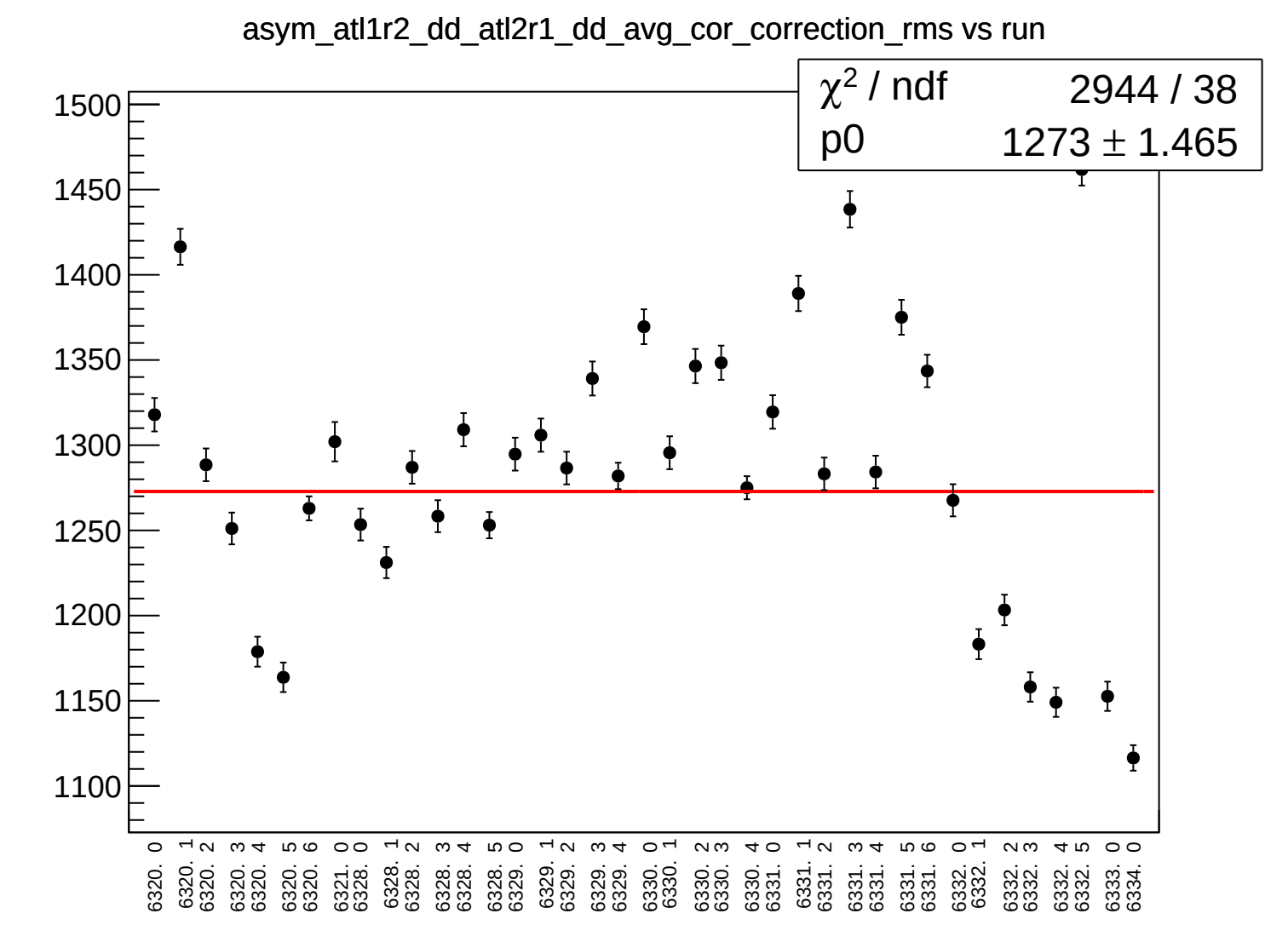

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

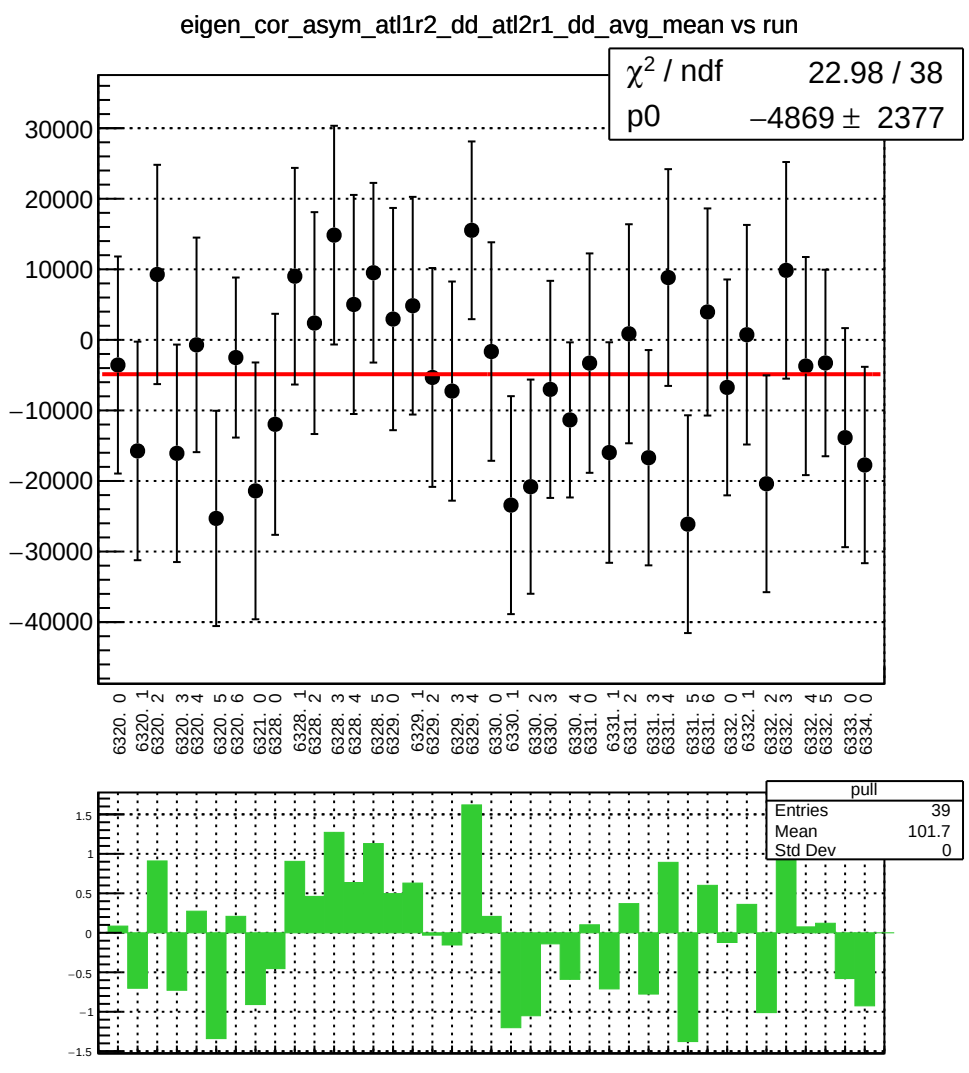

pull1D
Entries 39
Mean −0.01237
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

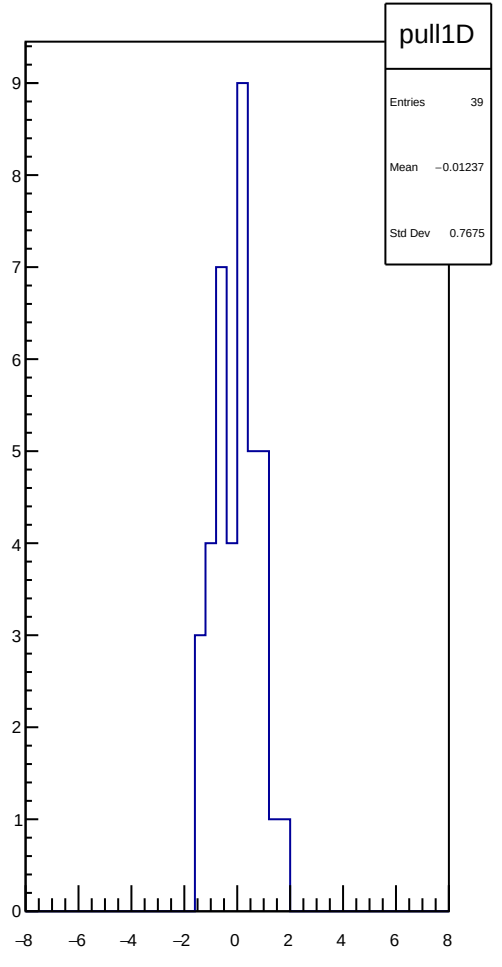

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

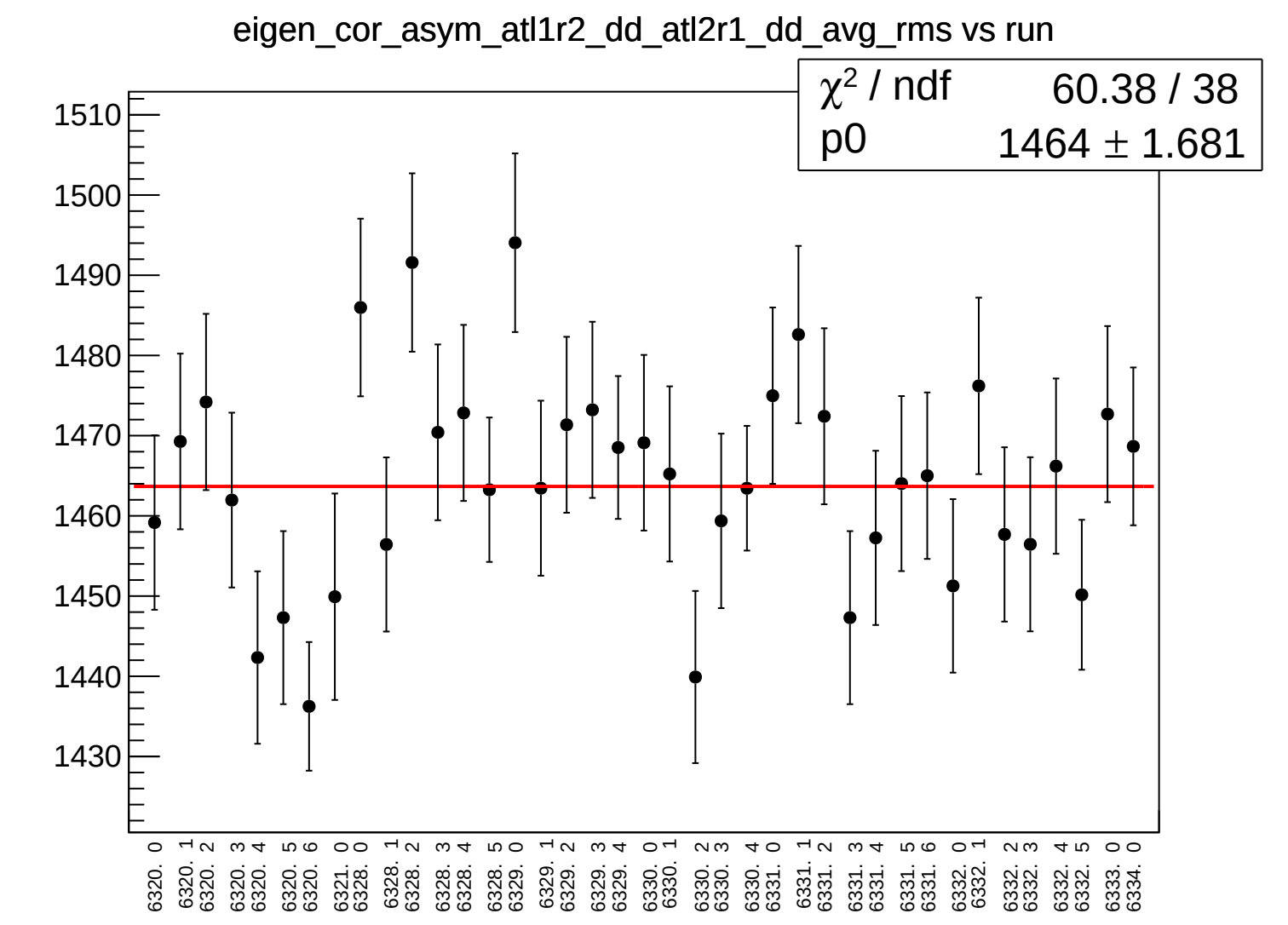

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

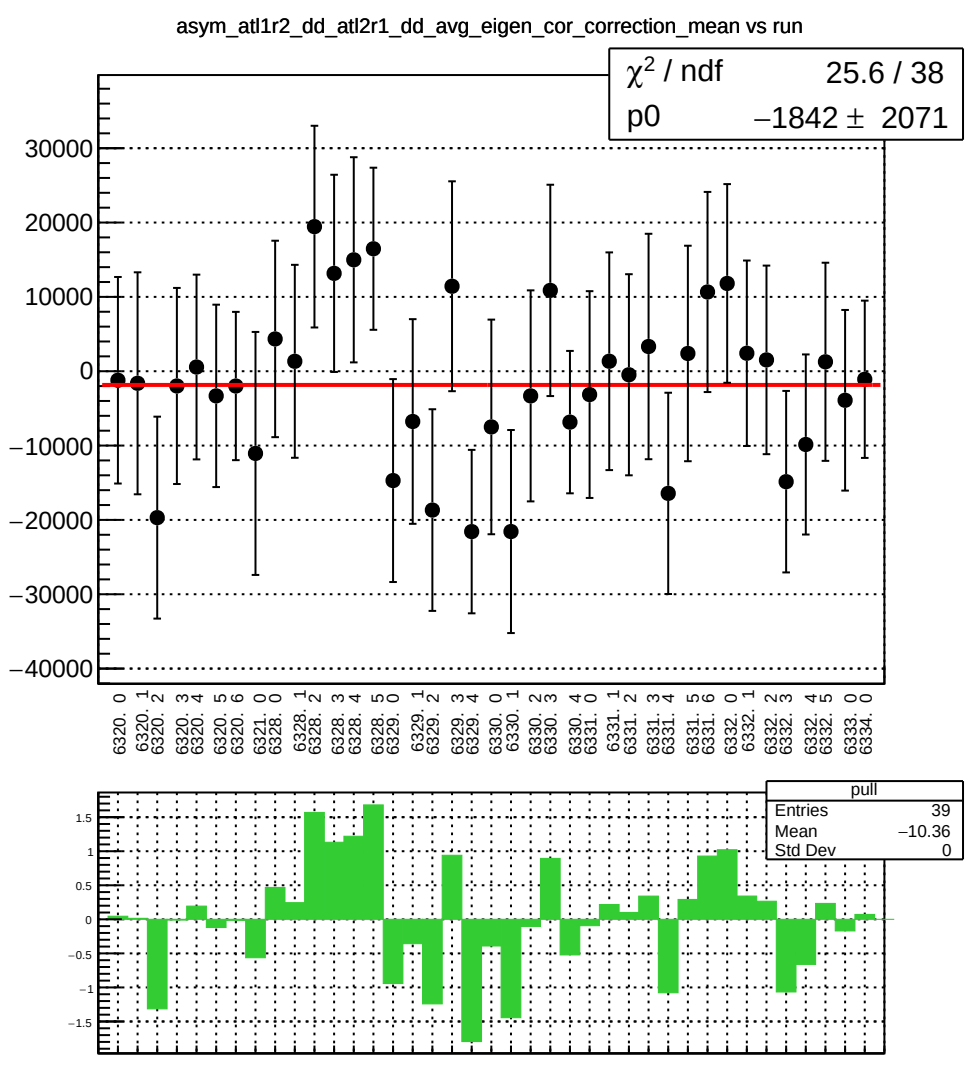

pull1D
Entries 39
Mean 0.008348
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

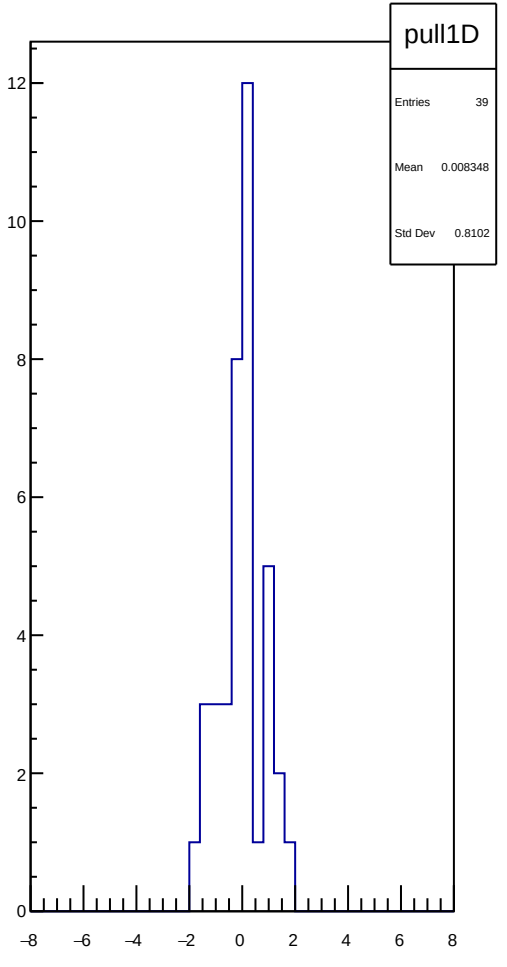

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2944 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

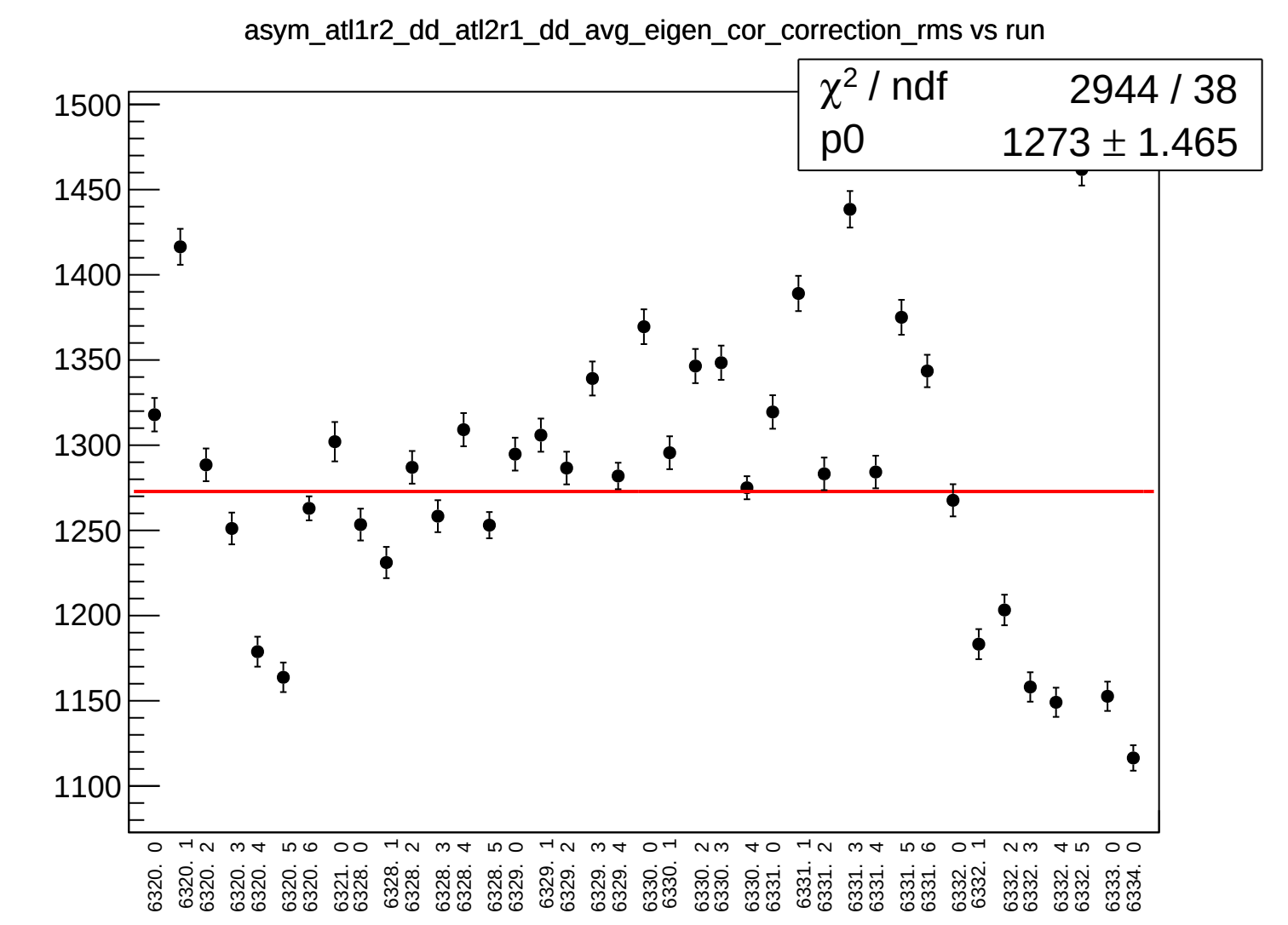

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.98 / 38
p0 −4869 ± 2377
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

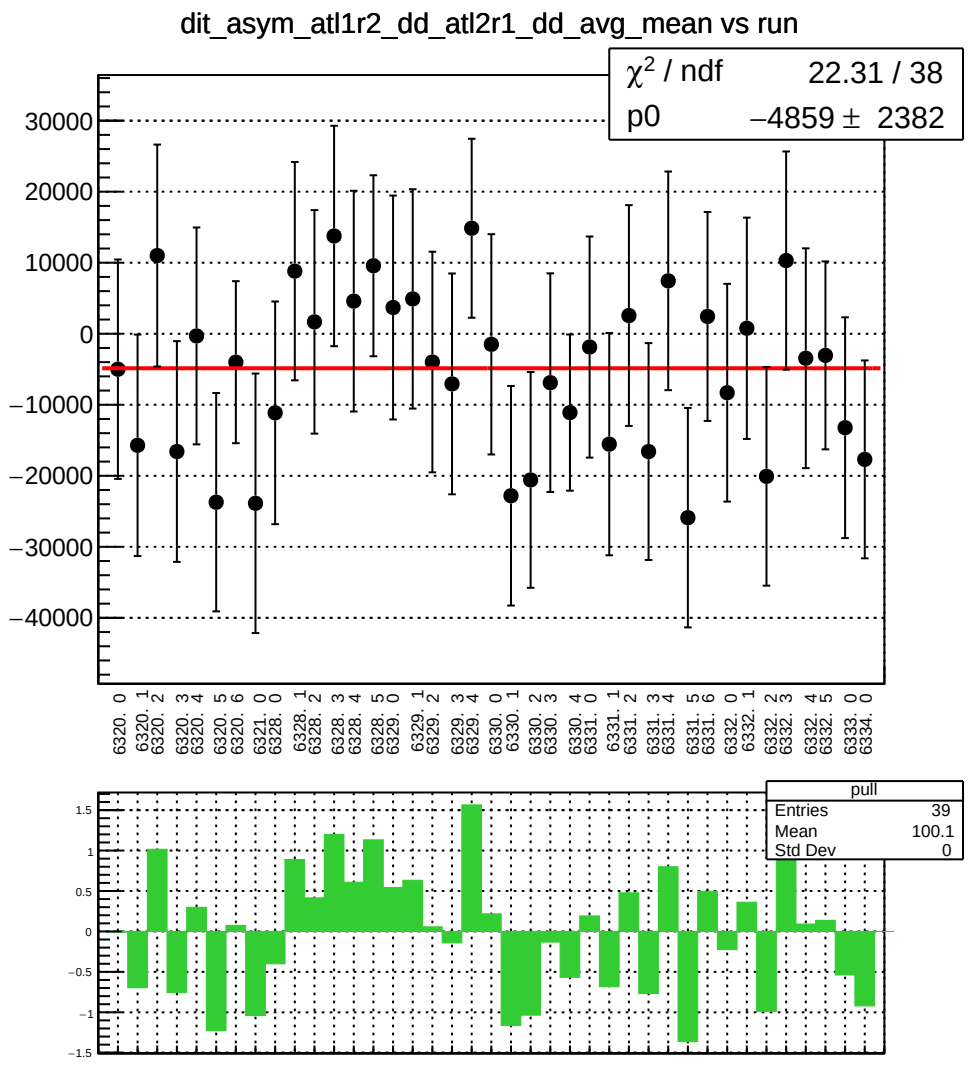

pull1D
Entries 39
Mean −0.01237
Std Dev 0.7675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

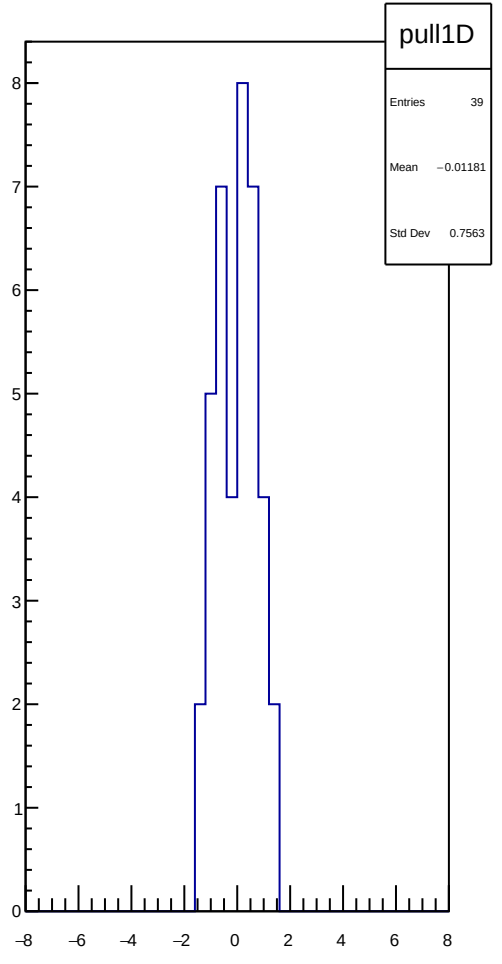

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 60.38 / 38
p0 1464 ± 1.681
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

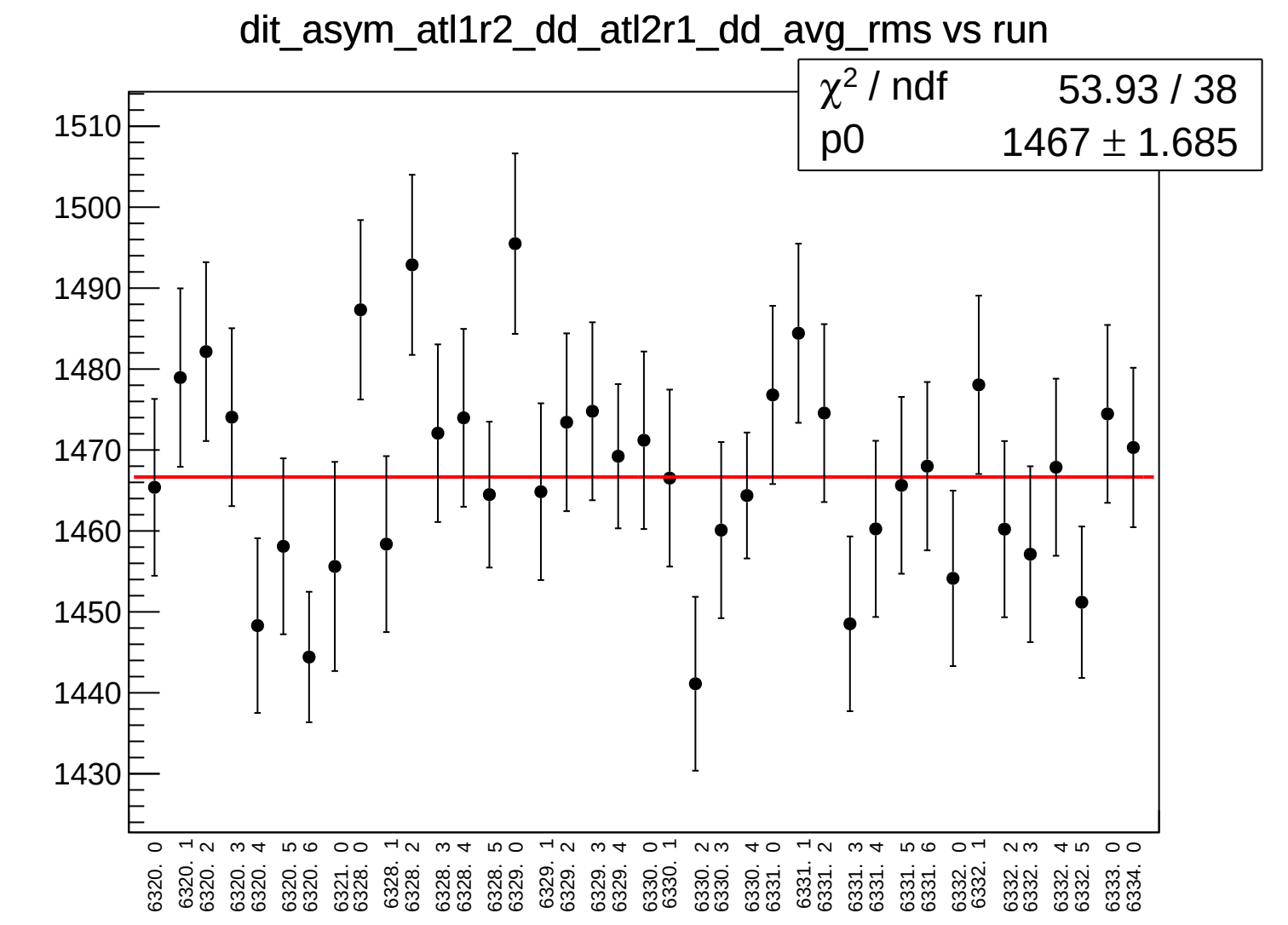

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.6 / 38
p0 −1842 ± 2071
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

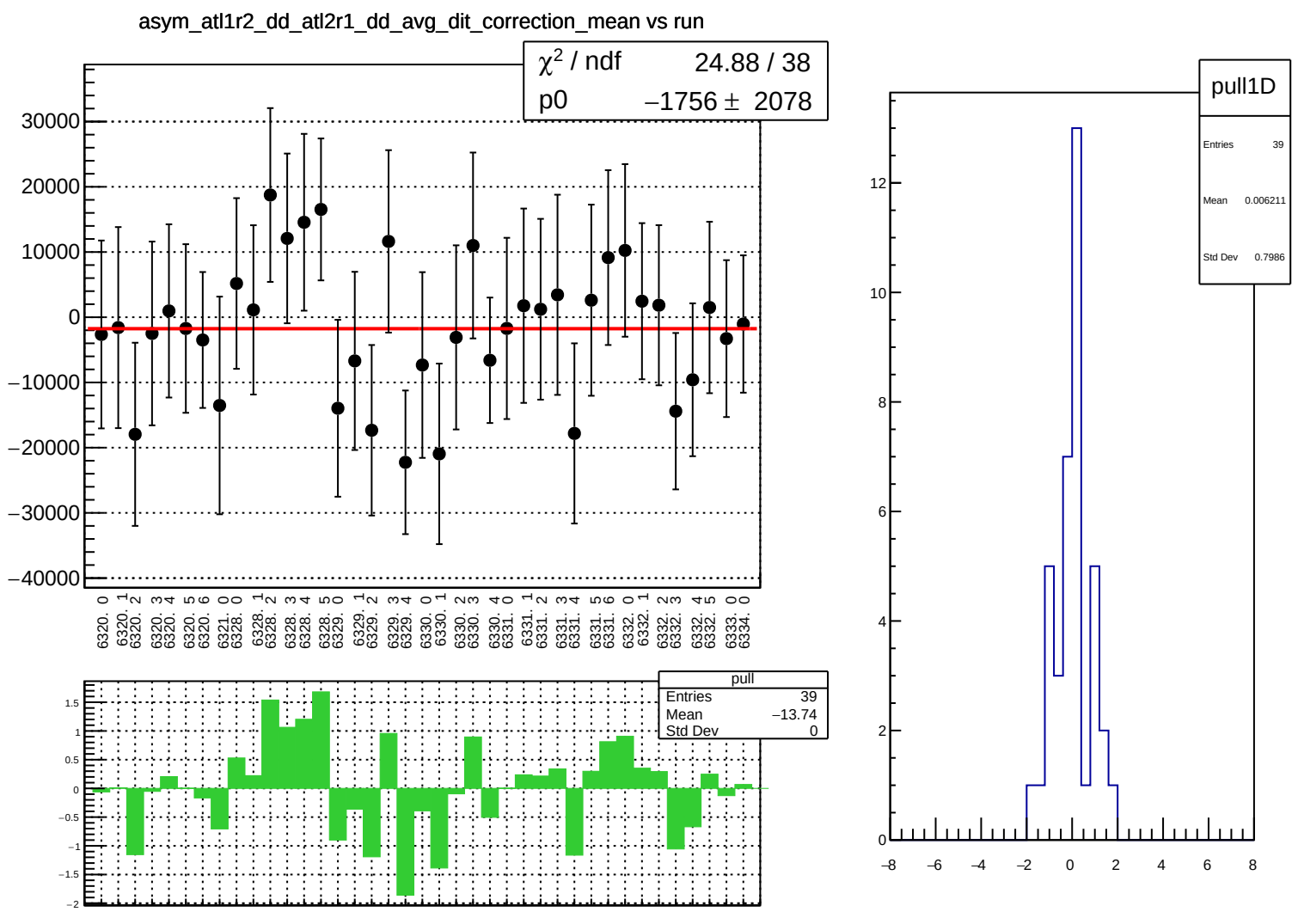

pull1D
Entries 39
Mean 0.008348
Std Dev 0.8102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

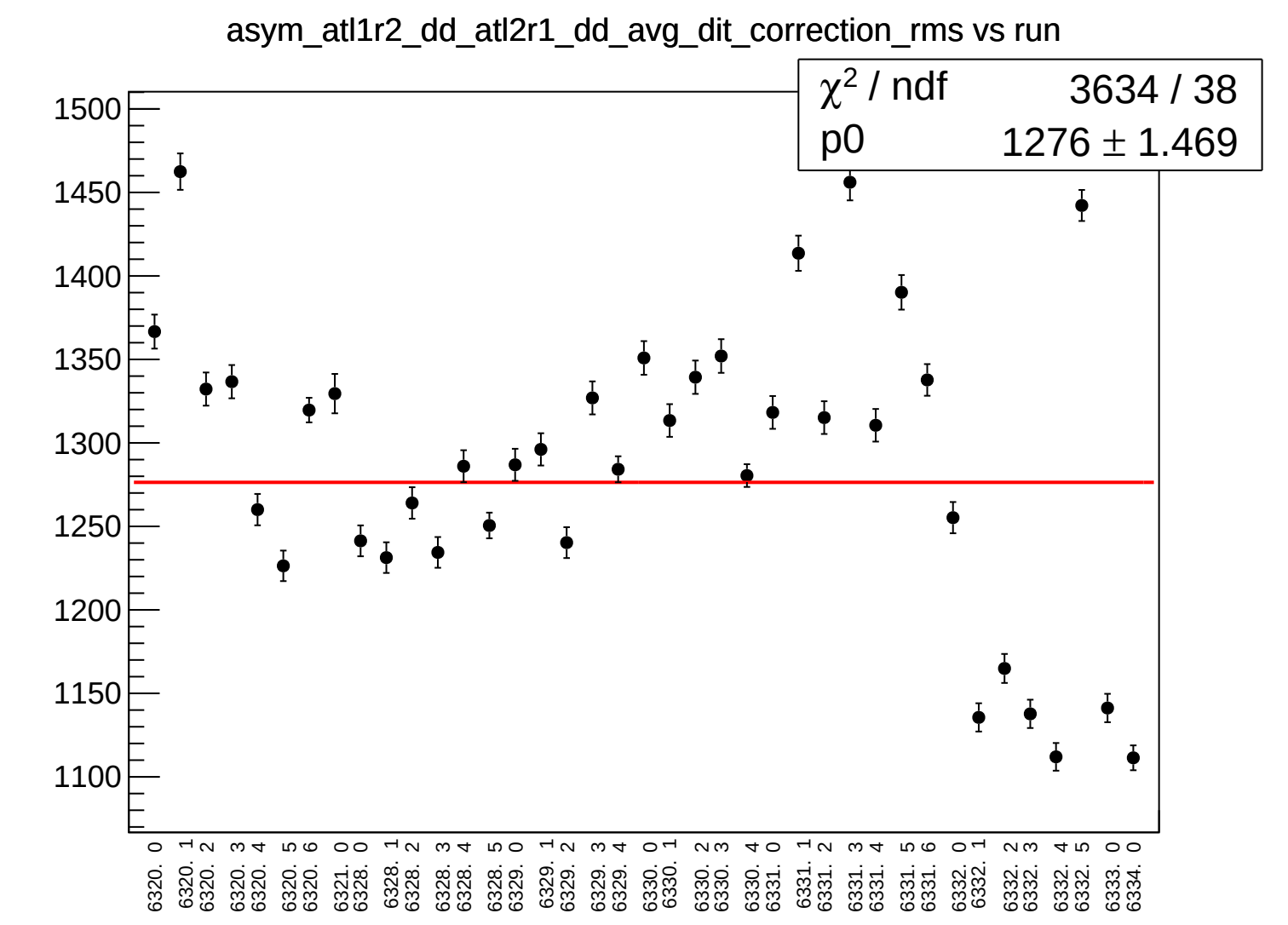

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2944 / 38
p0 1273 ± 1.465
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

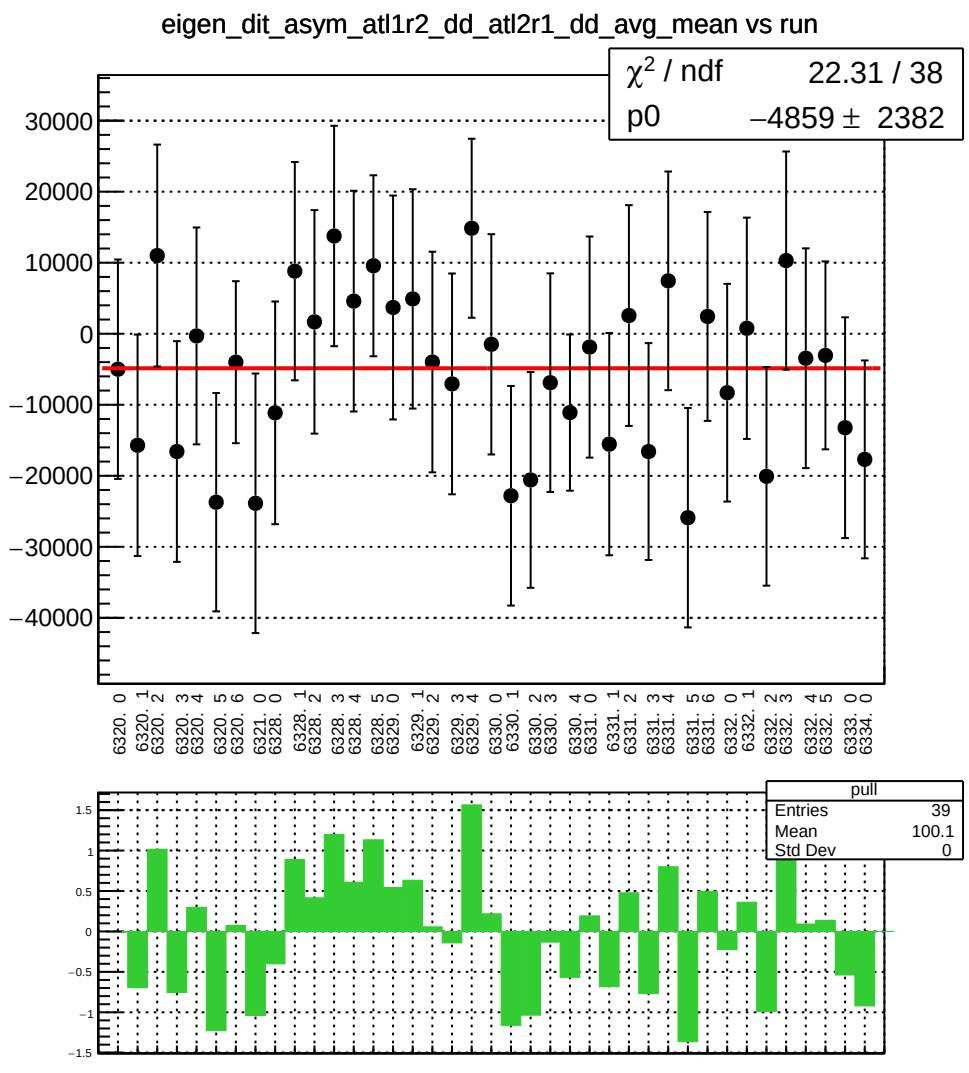

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.31 / 38
p0 −4859 ± 2382
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

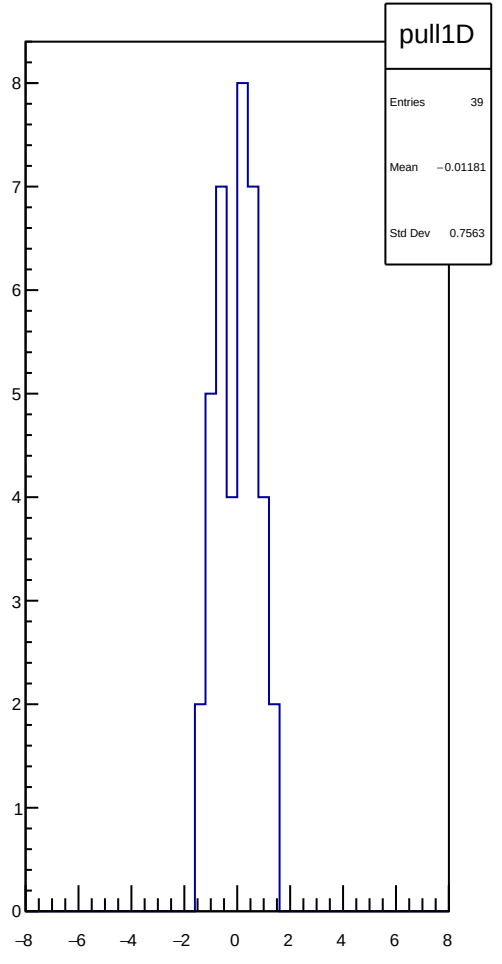

pull1D
Entries 39
Mean −0.01181
Std Dev 0.7563
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

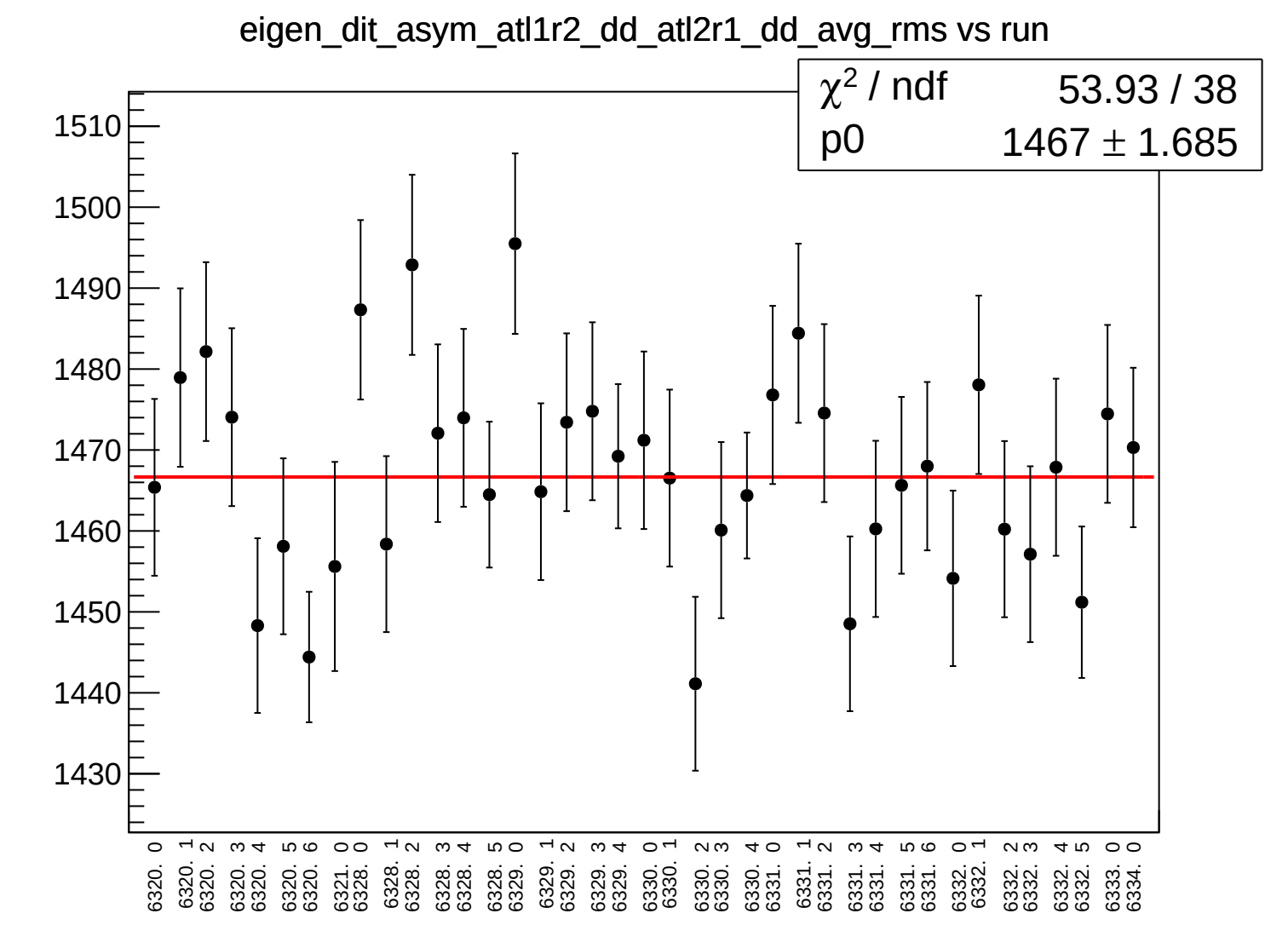

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 53.93 / 38
p0 1467 ± 1.685
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

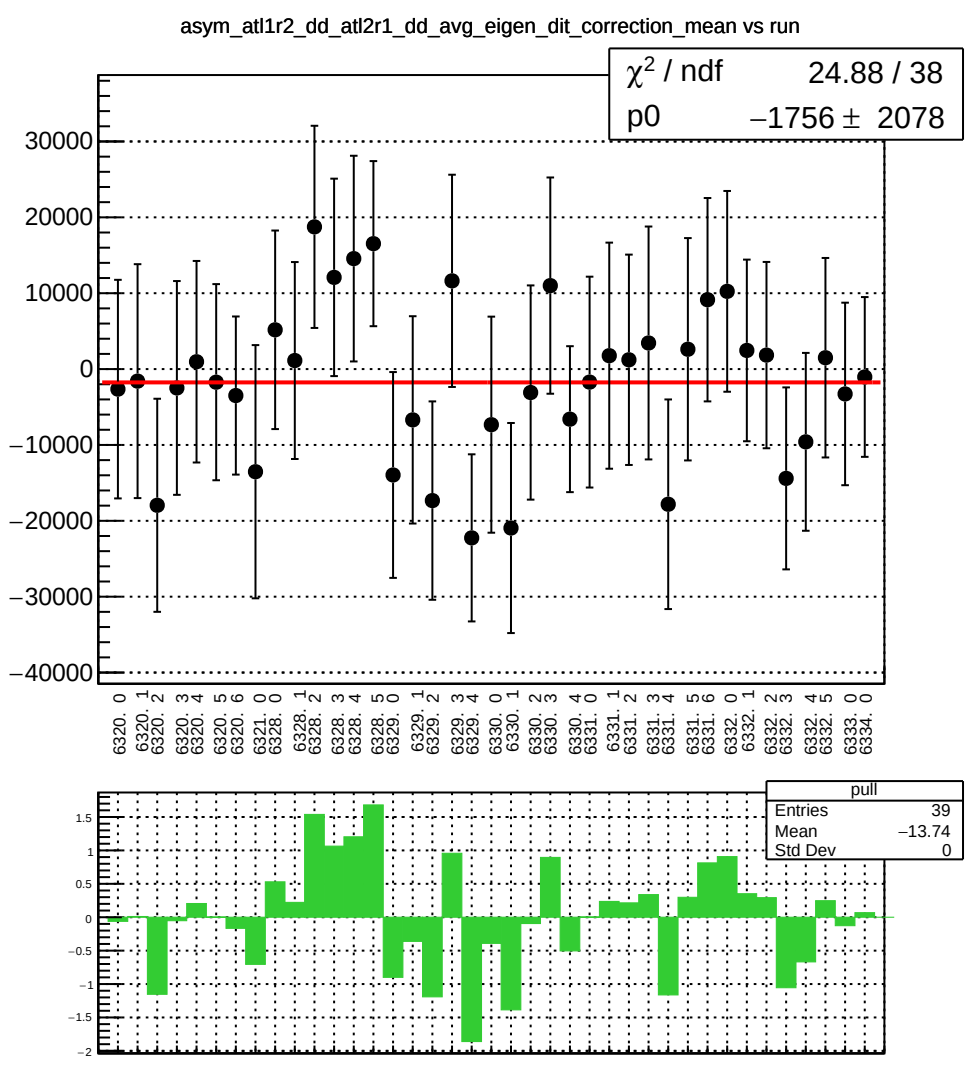

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 24.88 / 38
p0 −1756 ± 2078
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.006211
Std Dev 0.7986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

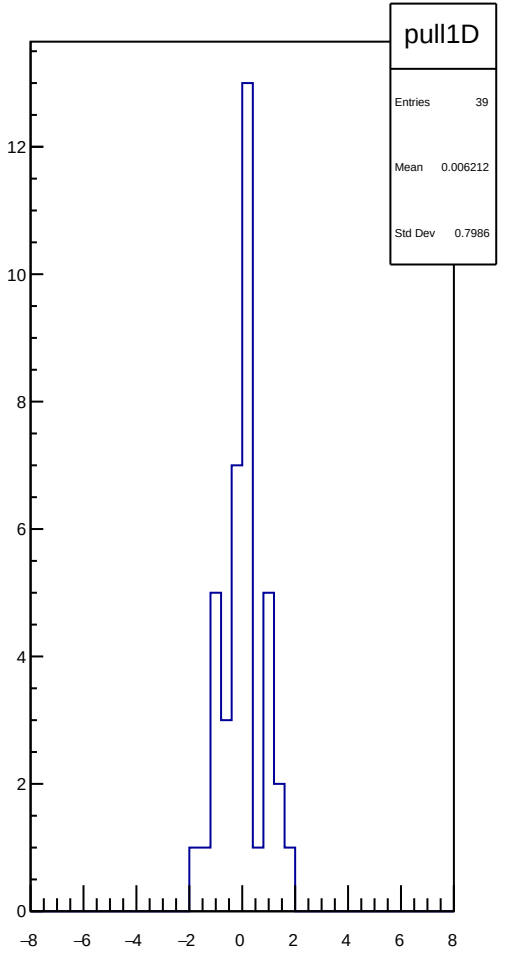

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3634 / 38
p0 1276 ± 1.469
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

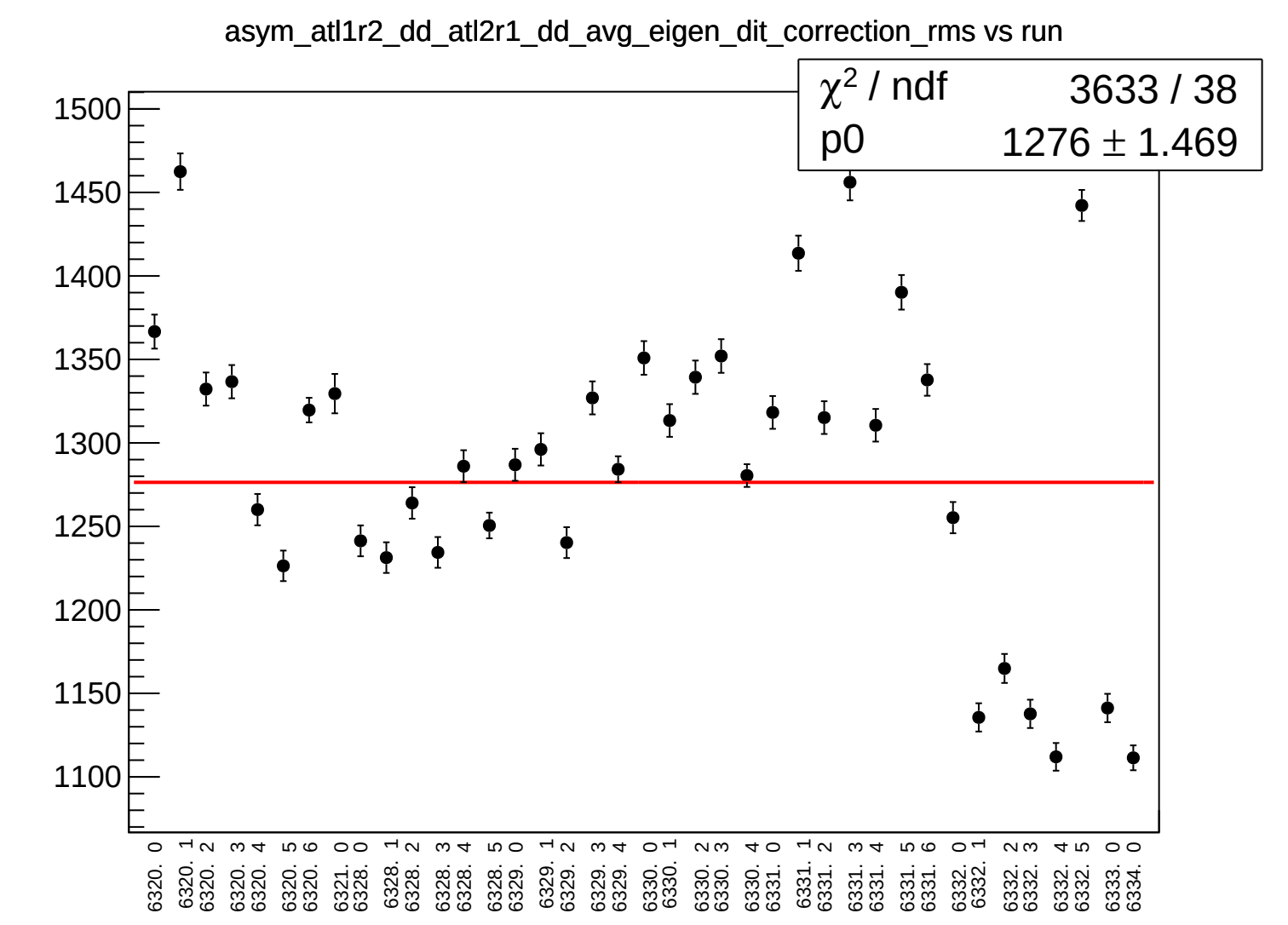

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 22.31 / 38
p0 −4859 ± 2382
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

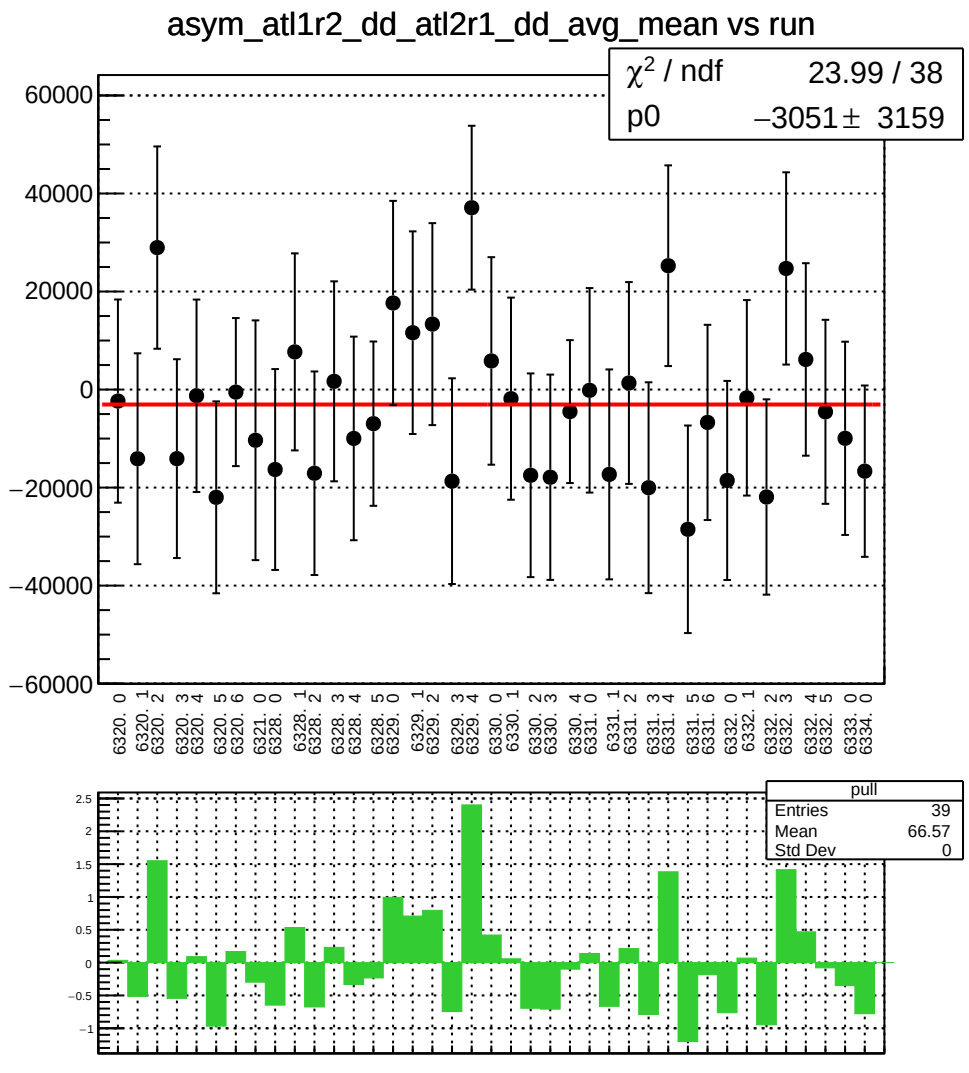

pull1D
Entries 39
Mean −0.01181
Std Dev 0.7563
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

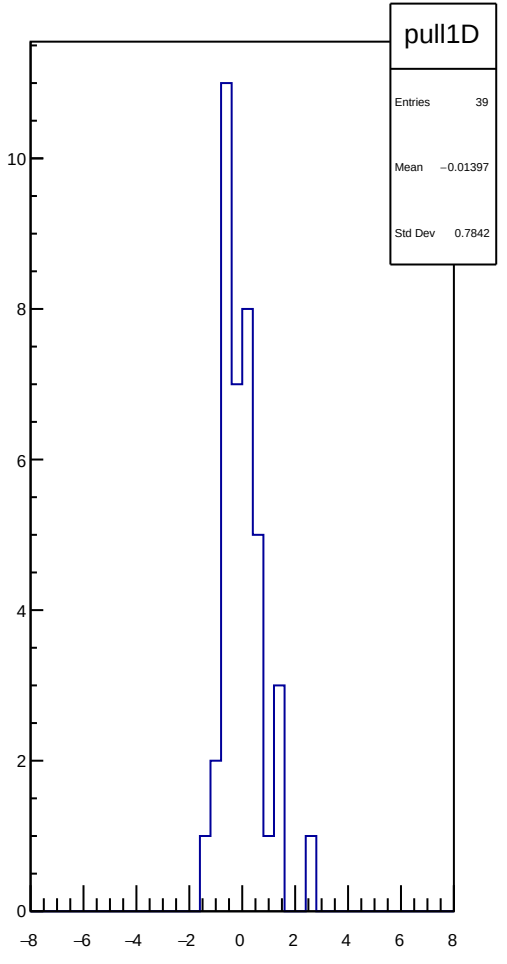

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 53.93 / 38
p0 1467 ± 1.685
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

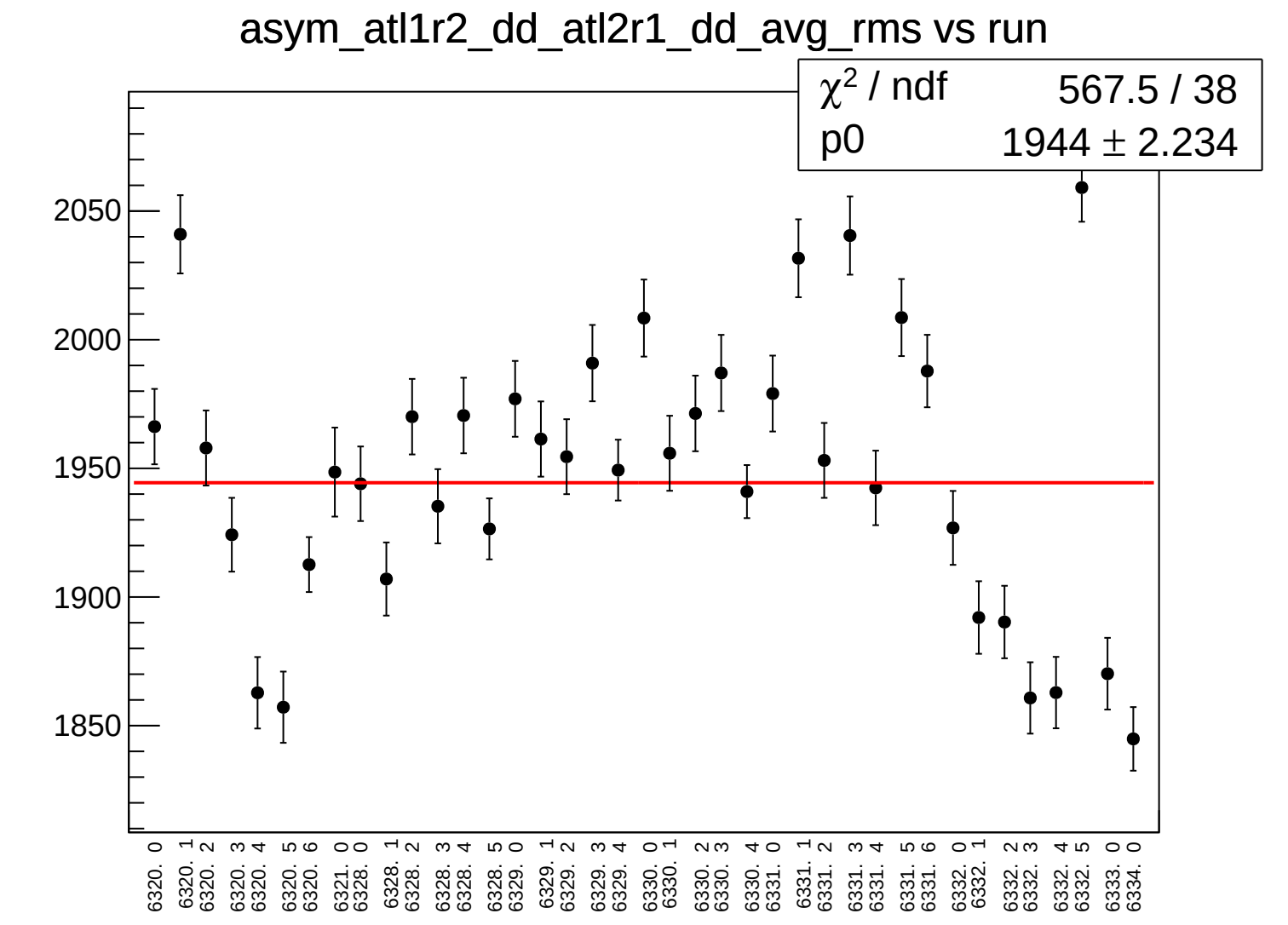

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.88 / 38
p0 −1756 ± 2078
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

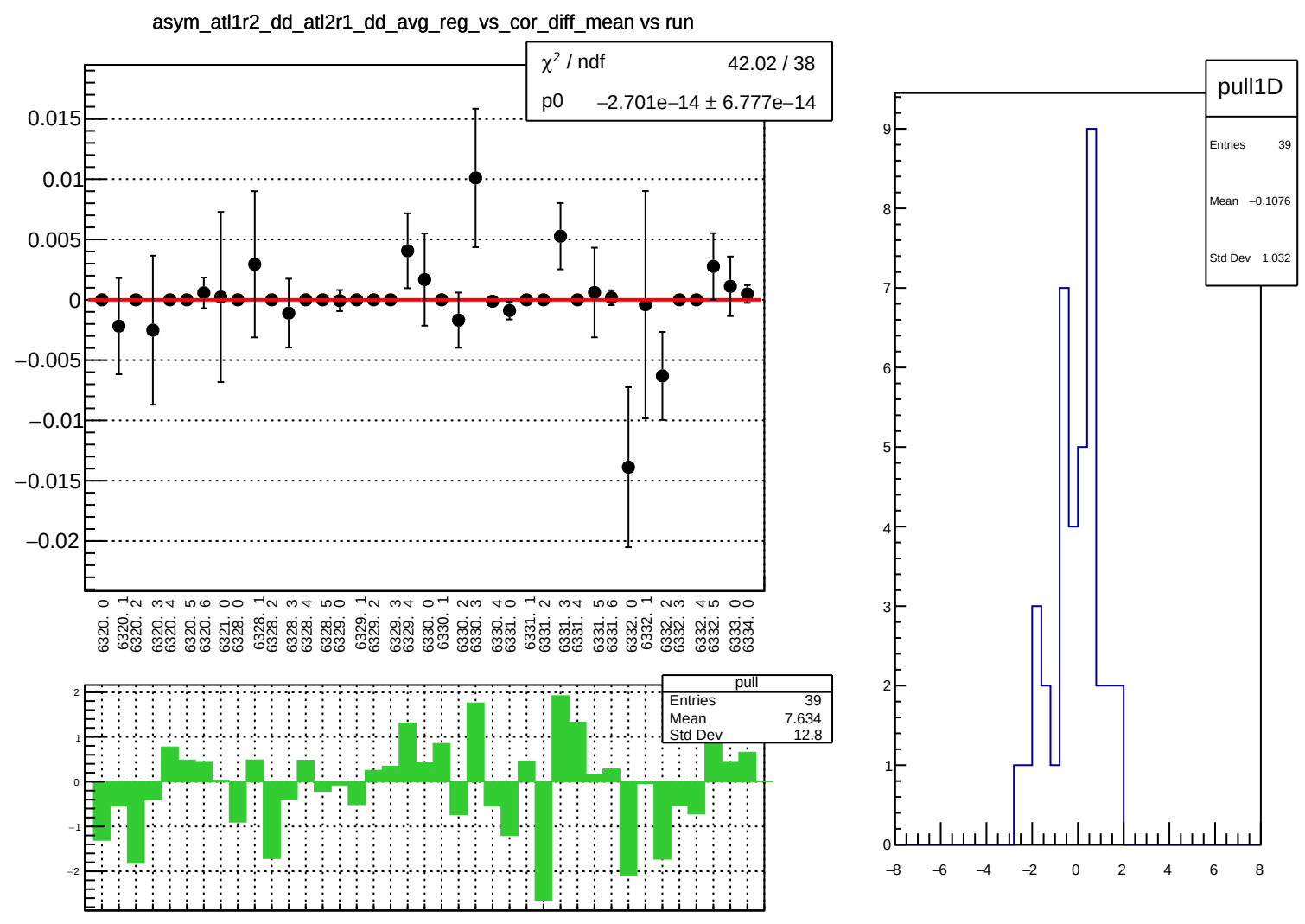

pull1D
Entries 39
Mean 0.006212
Std Dev 0.7986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

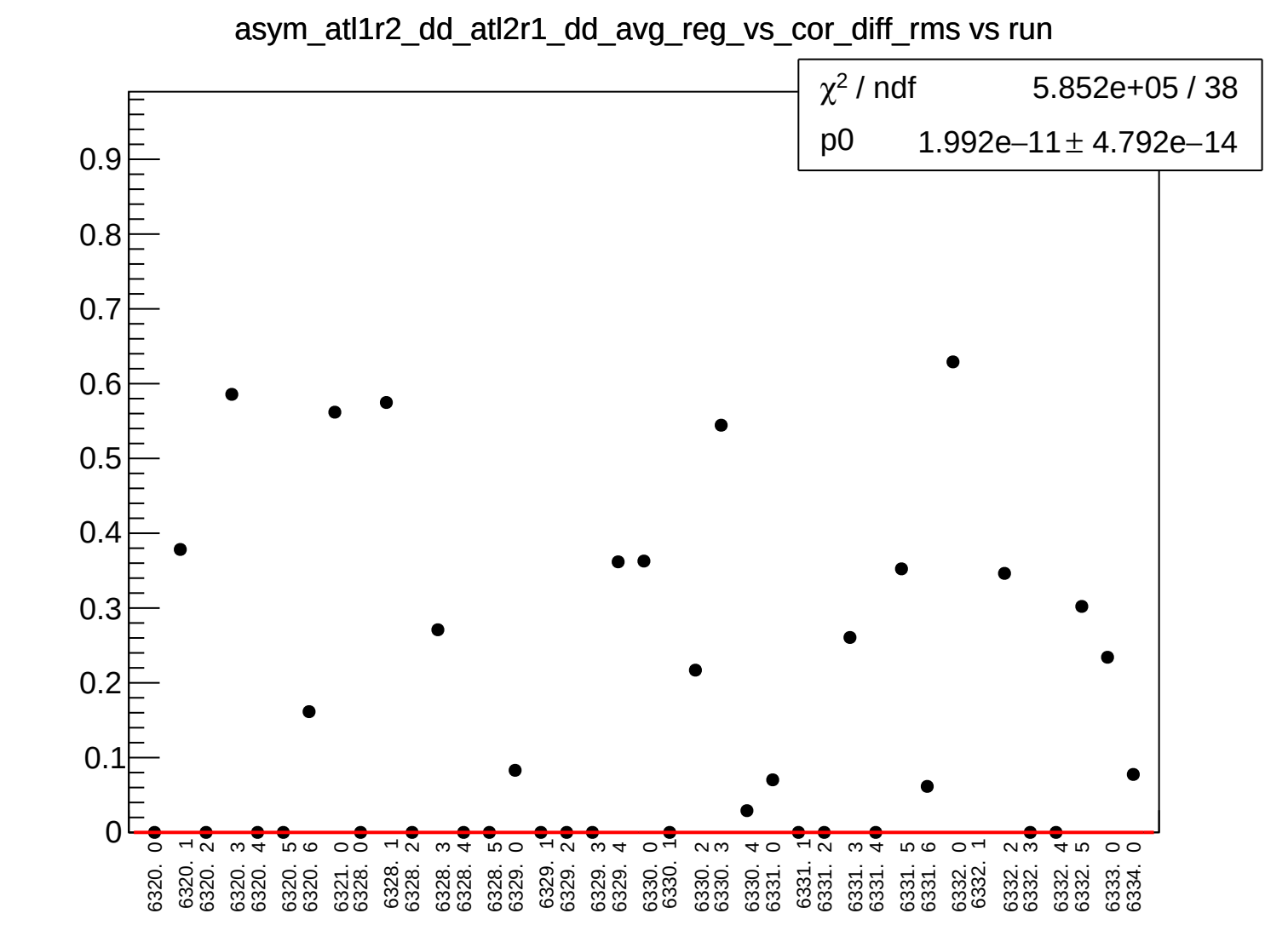

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3633 / 38
p0 1276 ± 1.469
1500
1450
1400
1350
1300
1250
1200
1150
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

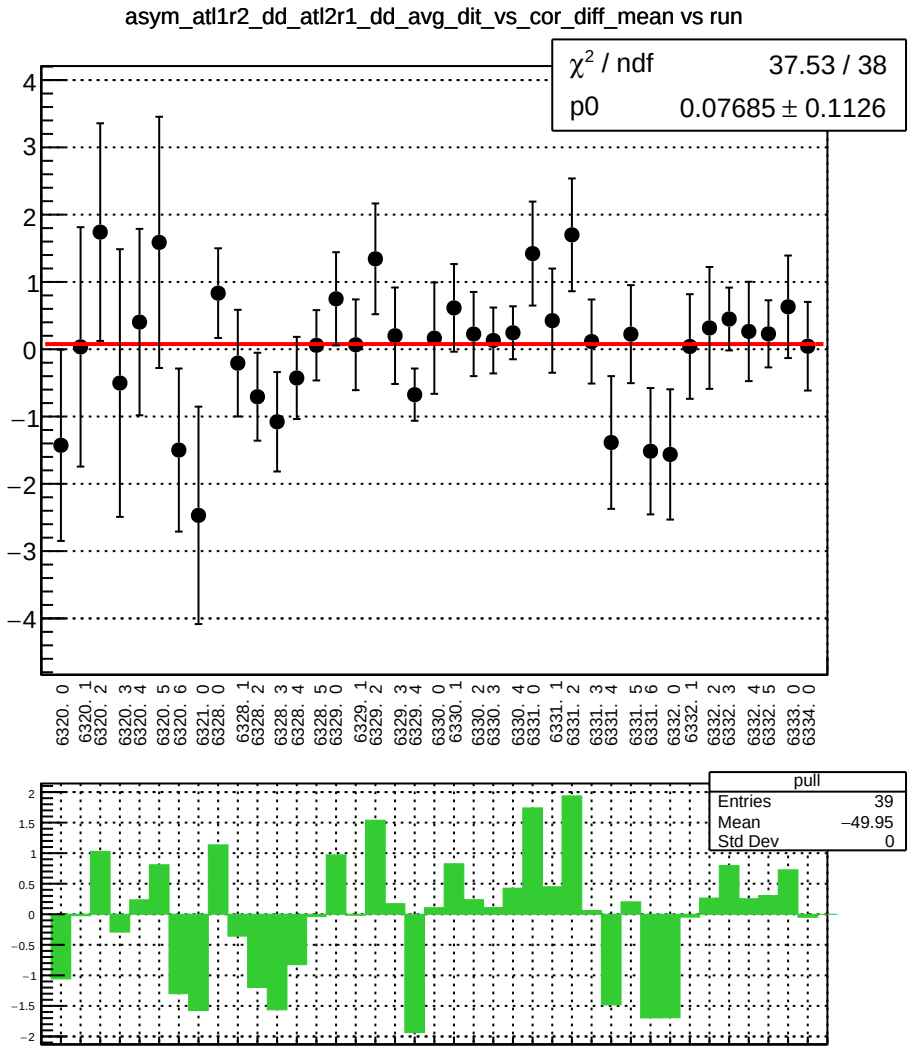

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 23.99 / 38
p0 −3051 ± 3159
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 66.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

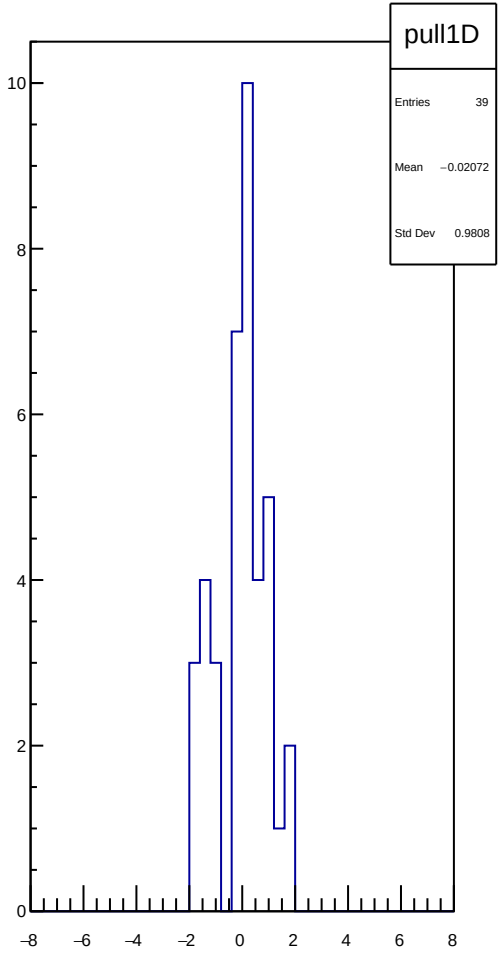

pull1D
Entries 39
Mean −0.01397
Std Dev 0.7842
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

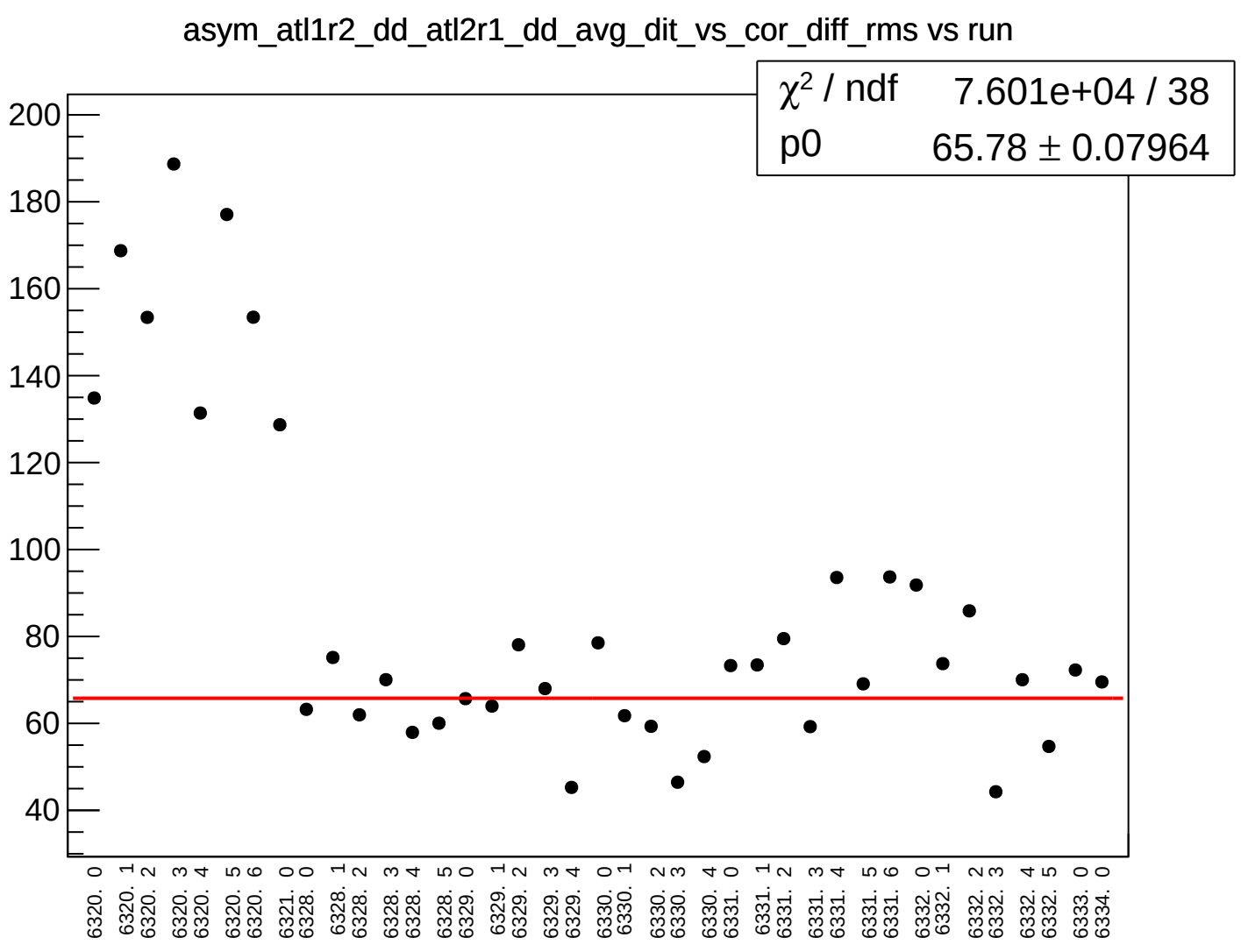

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 567.5 / 38
p0 1944 ± 2.234
2050
2000
1950
1900
1850
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

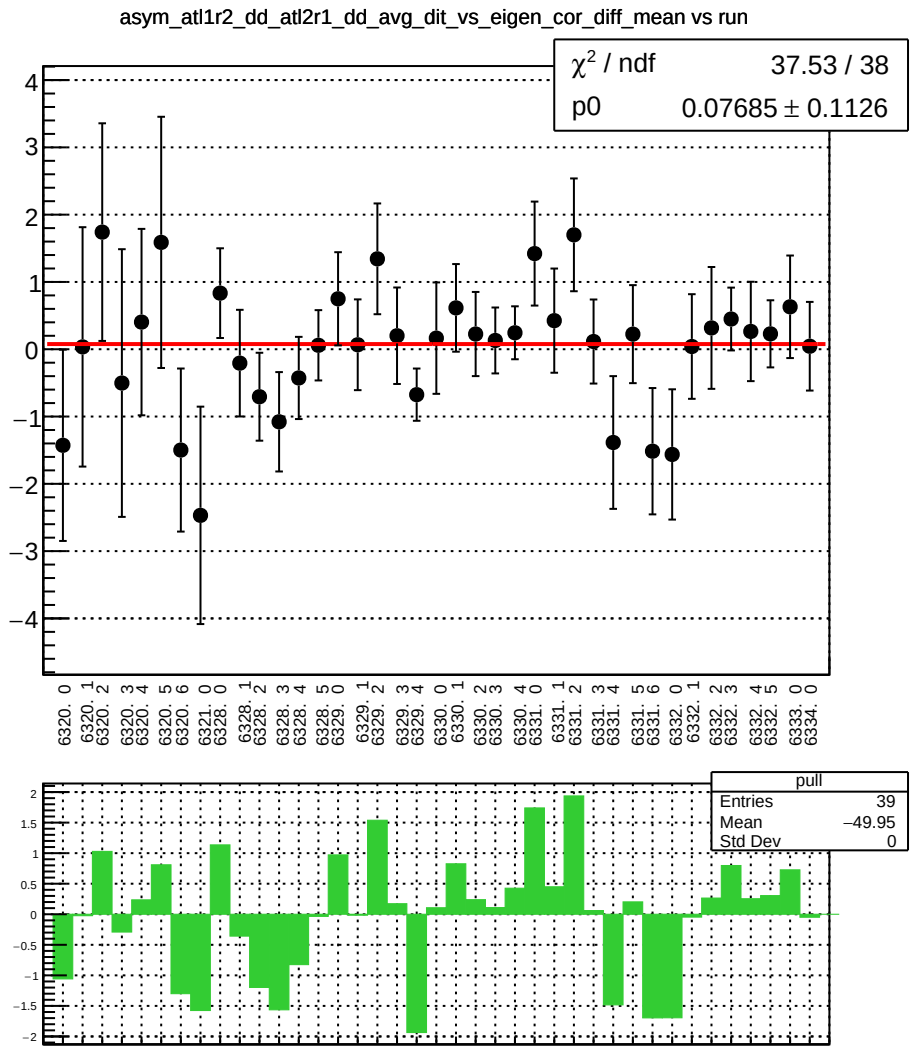

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.02 / 38
p0 −2.701e−14 ± 6.777e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.634
Std Dev 12.8
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1076
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

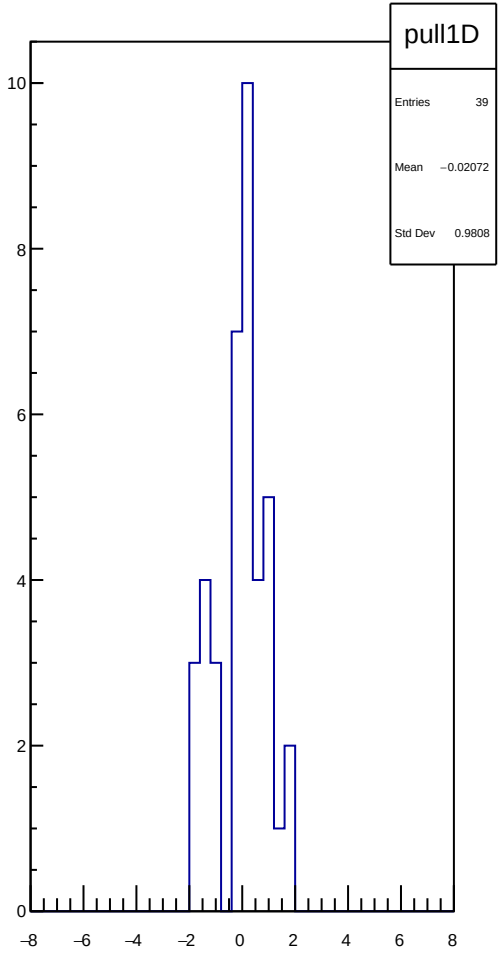

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.852e+05 / 38
p0 1.992e−11 ± 4.792e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

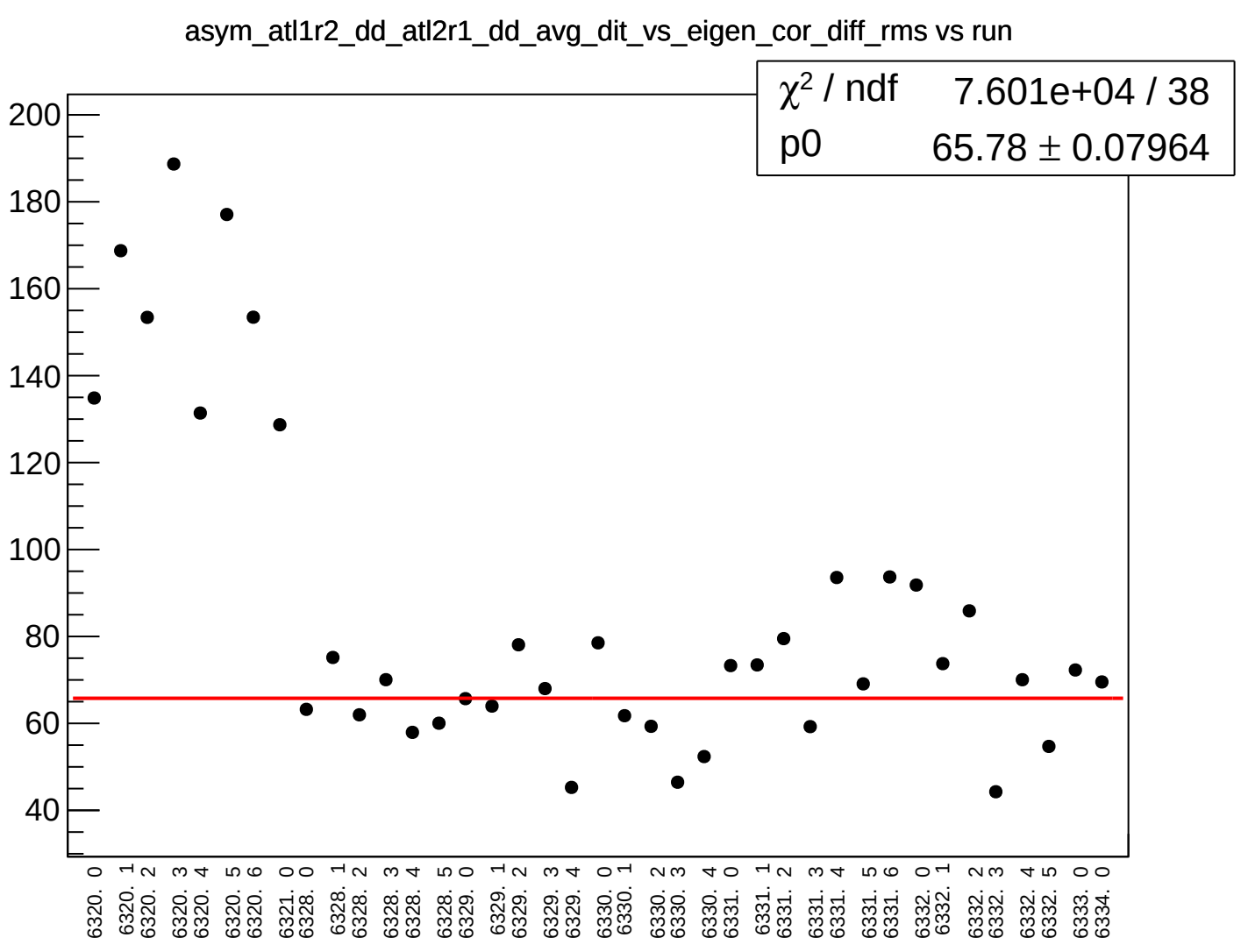

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07685 ± 0.1126
pull
Entries 39
Mean −49.95
Std Dev 0

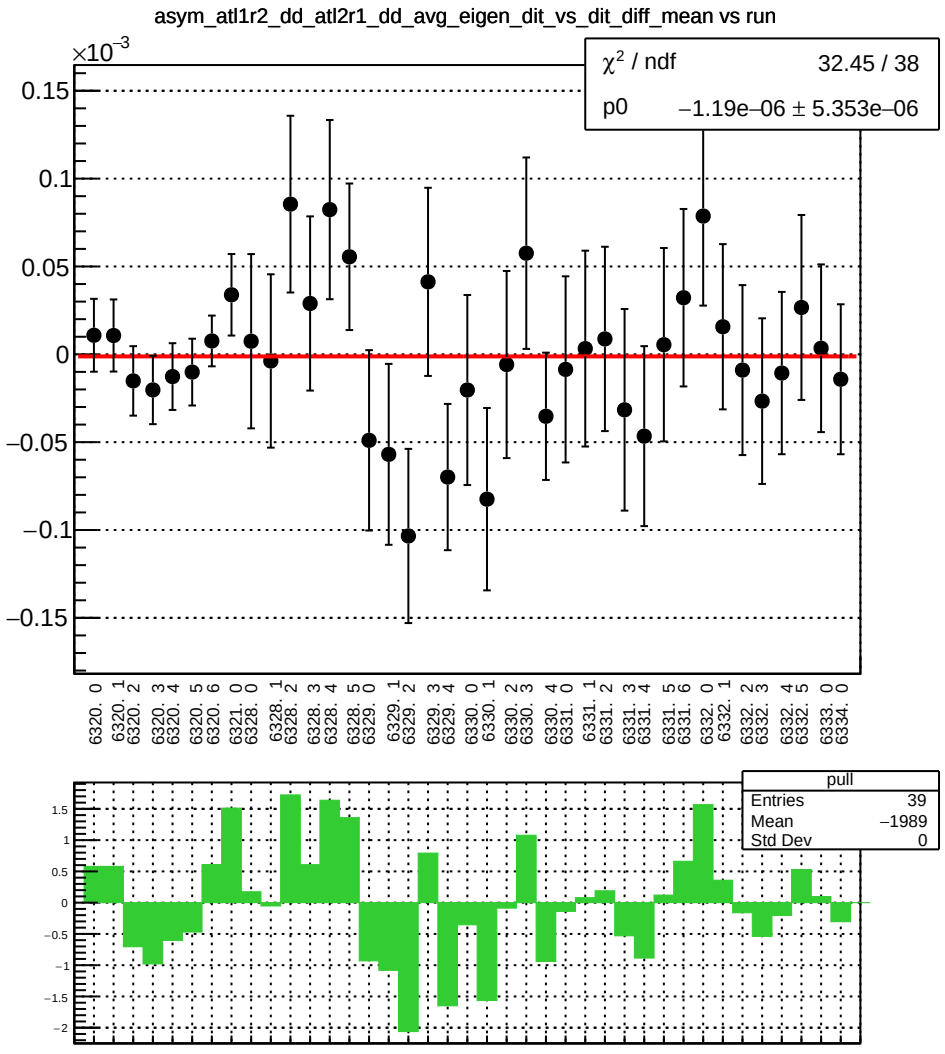

pull1D
Entries 39
Mean −0.02072
Std Dev 0.9808

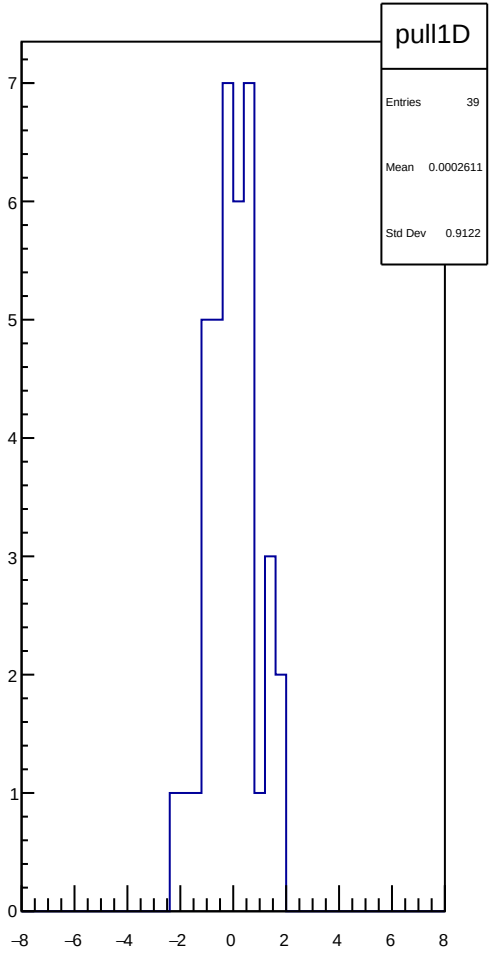

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

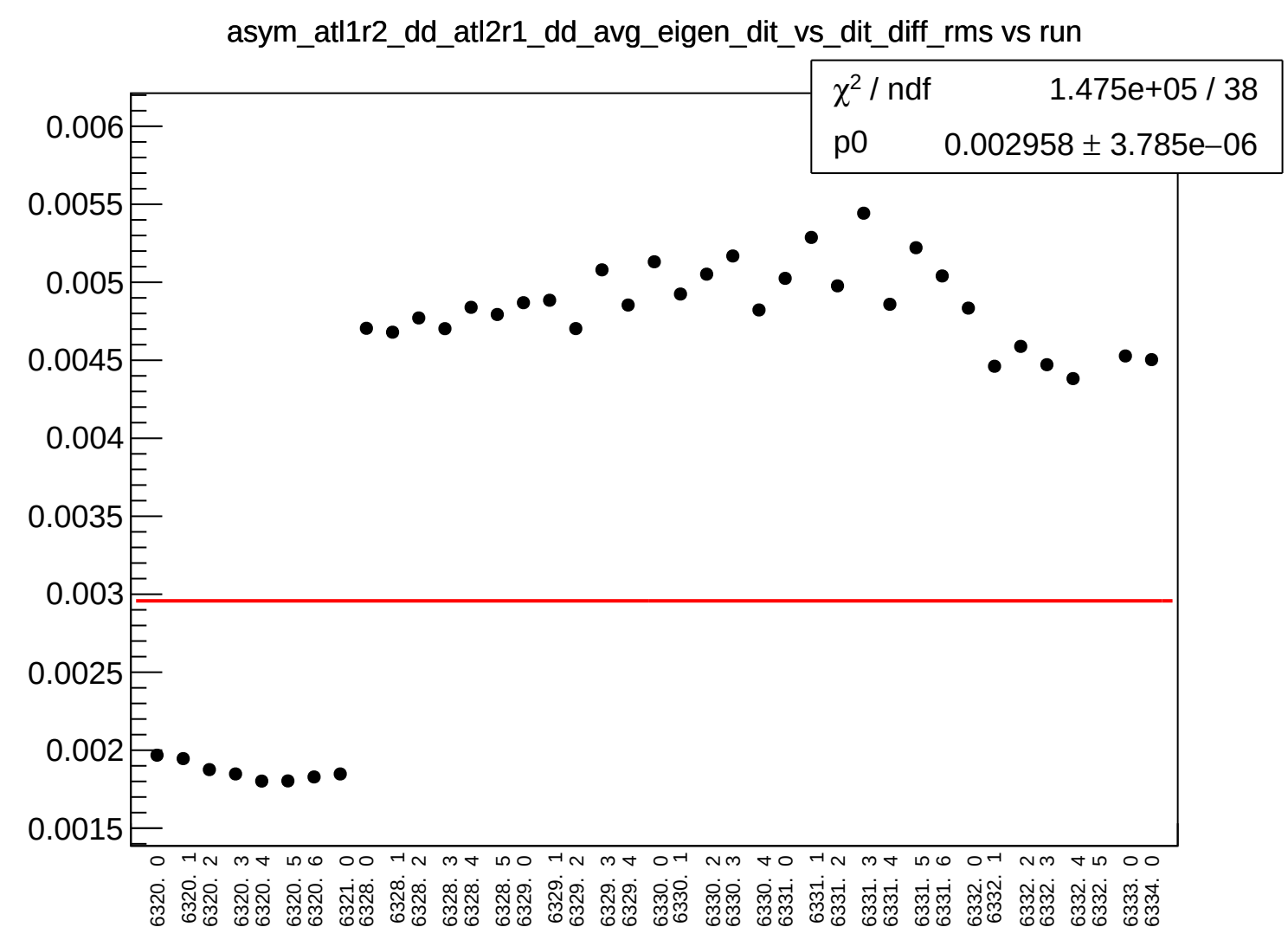

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07685 ± 0.1126
pull
Entries 39
Mean −49.95
Std Dev 0

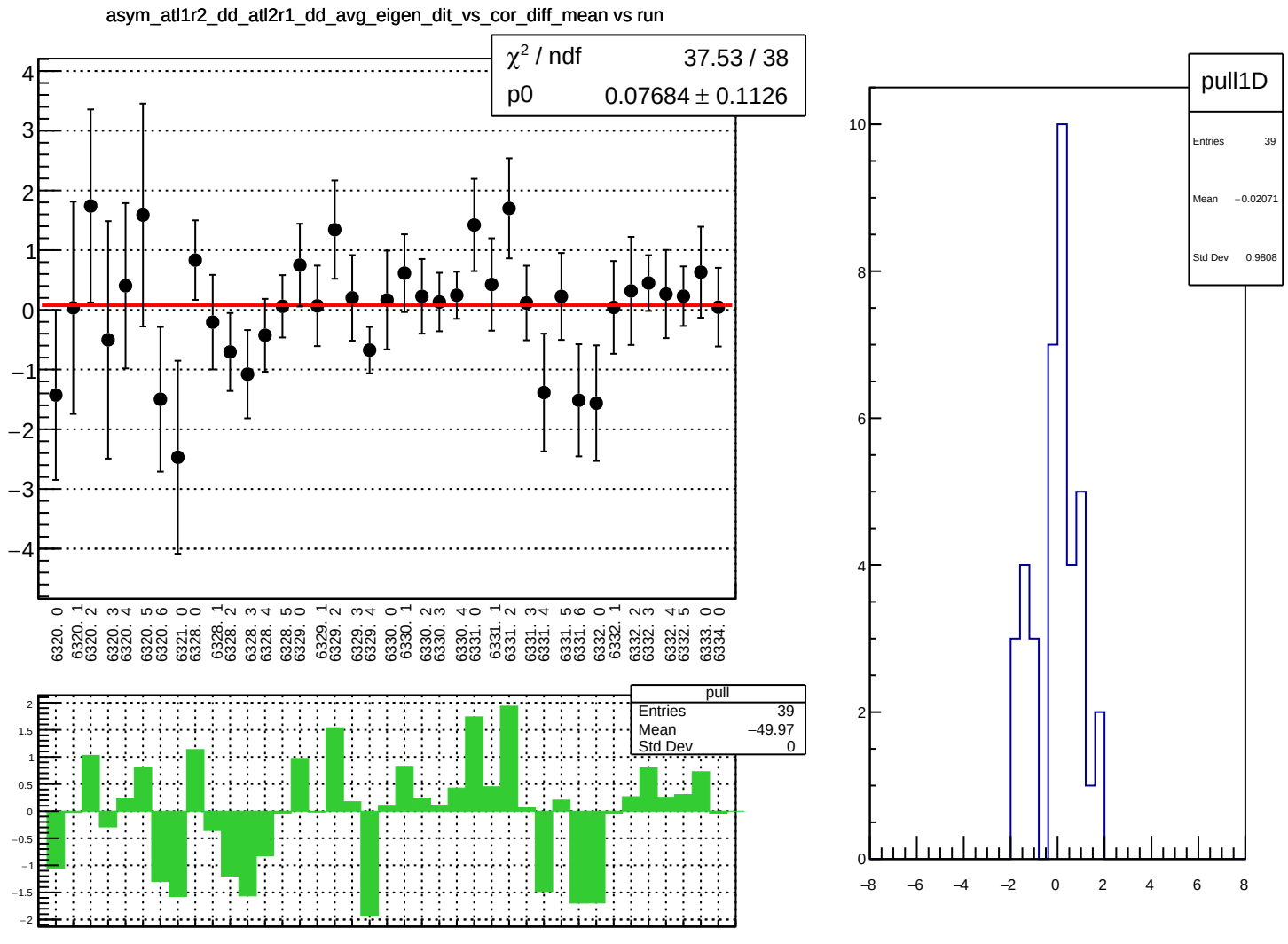

pull1D
Entries 39
Mean −0.02072
Std Dev 0.9808

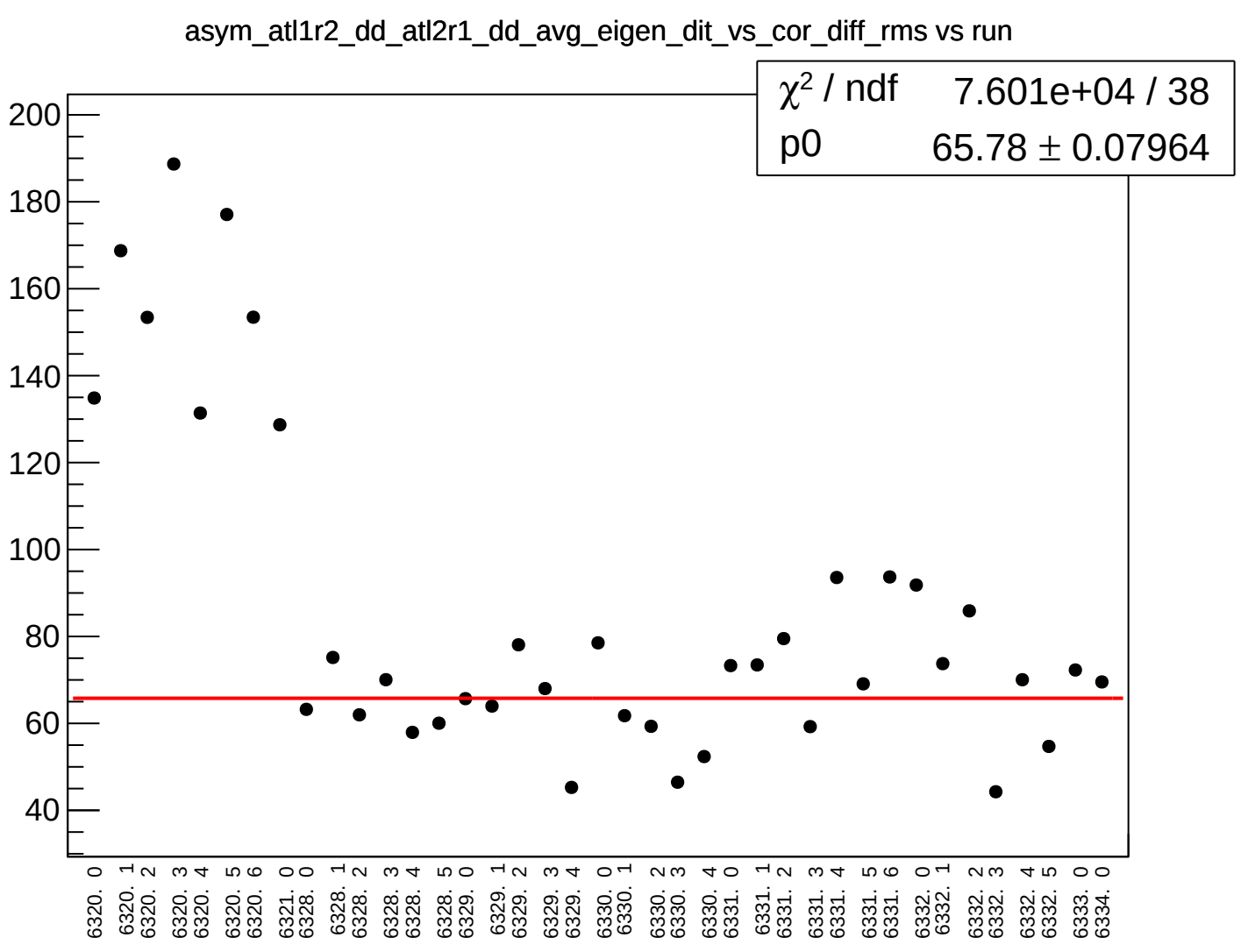

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

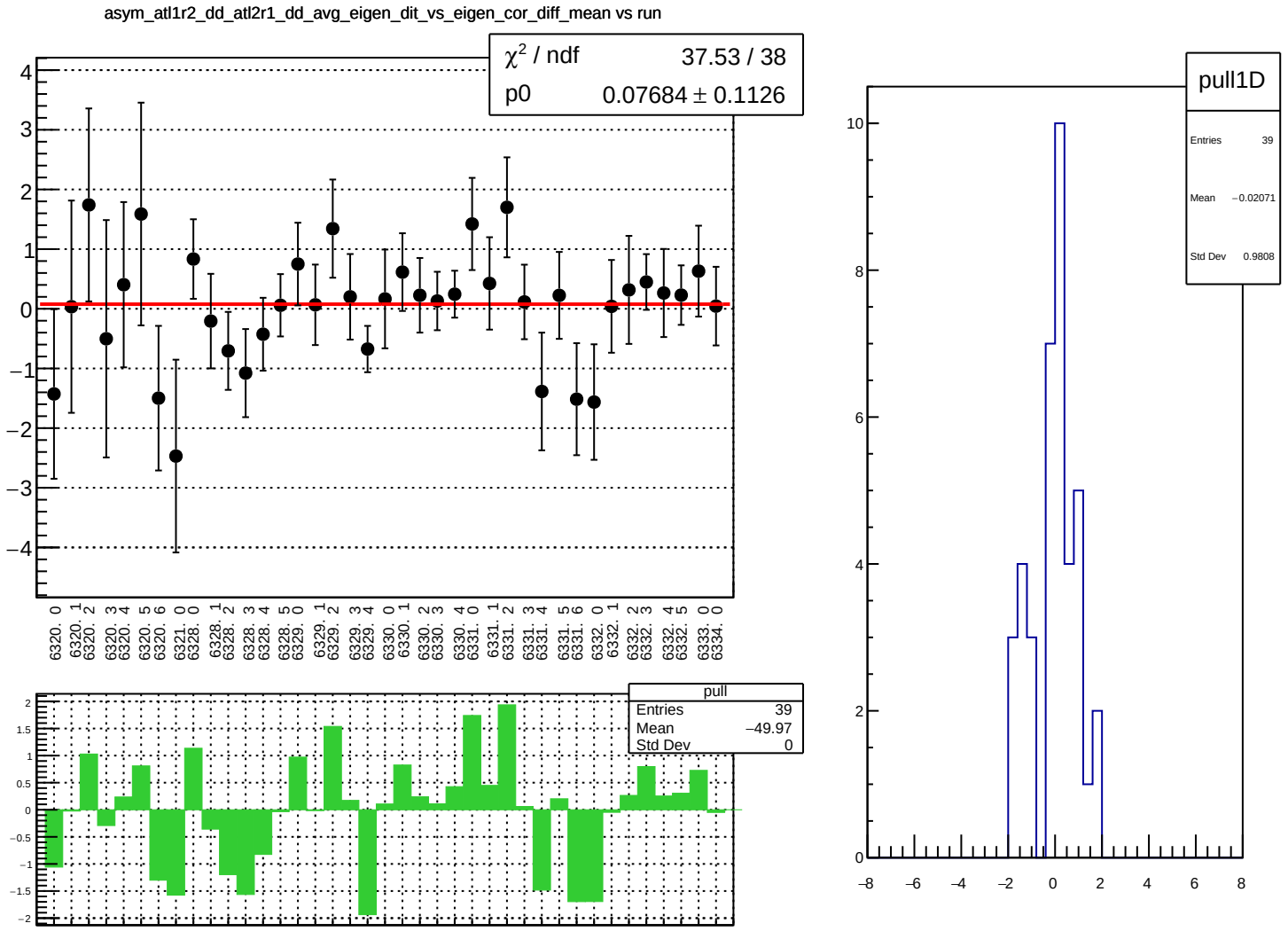

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.45 / 38
p0 −1.19e−06 ± 5.353e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1989
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

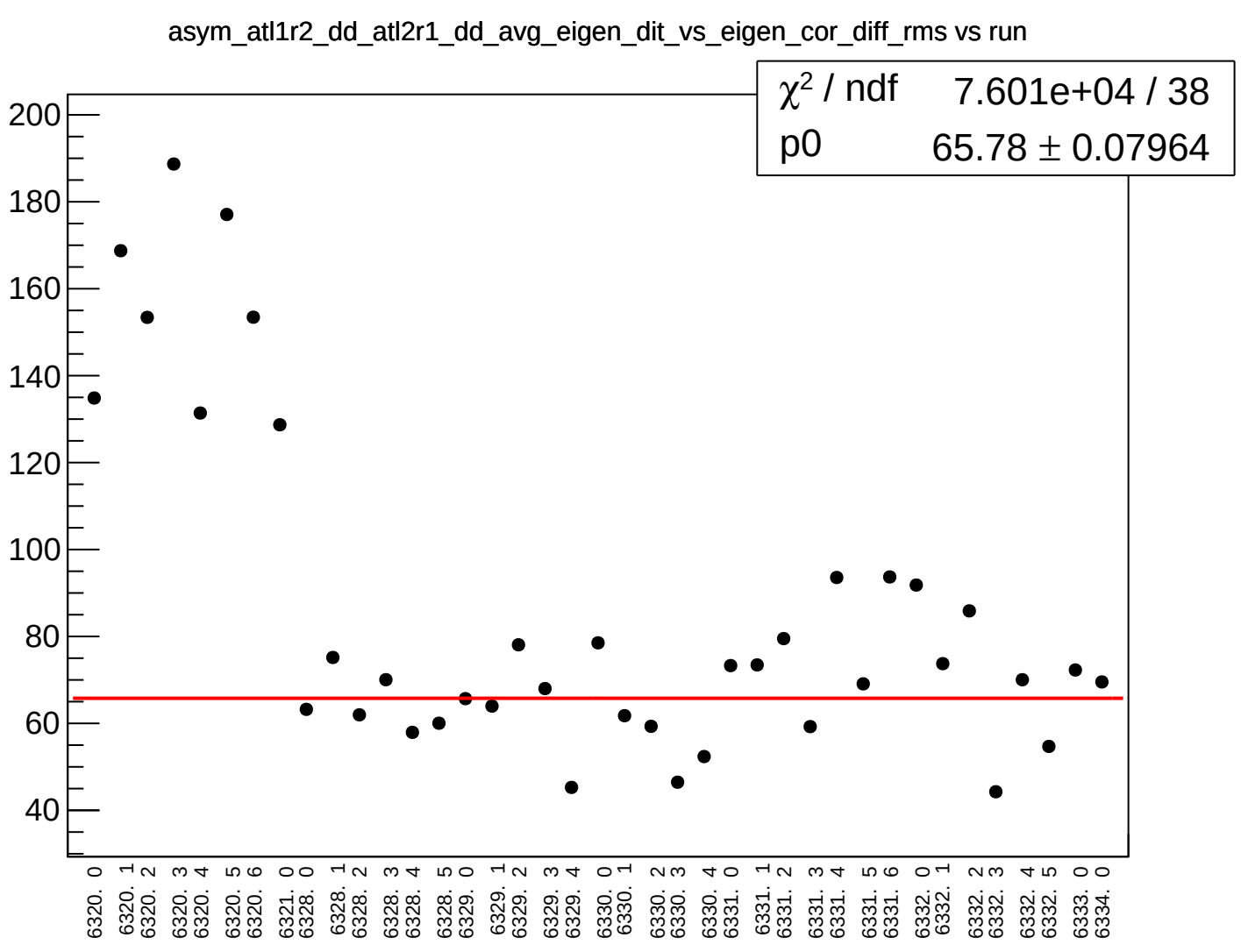

pull1D
Entries 39
Mean 0.0002611
Std Dev 0.9122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

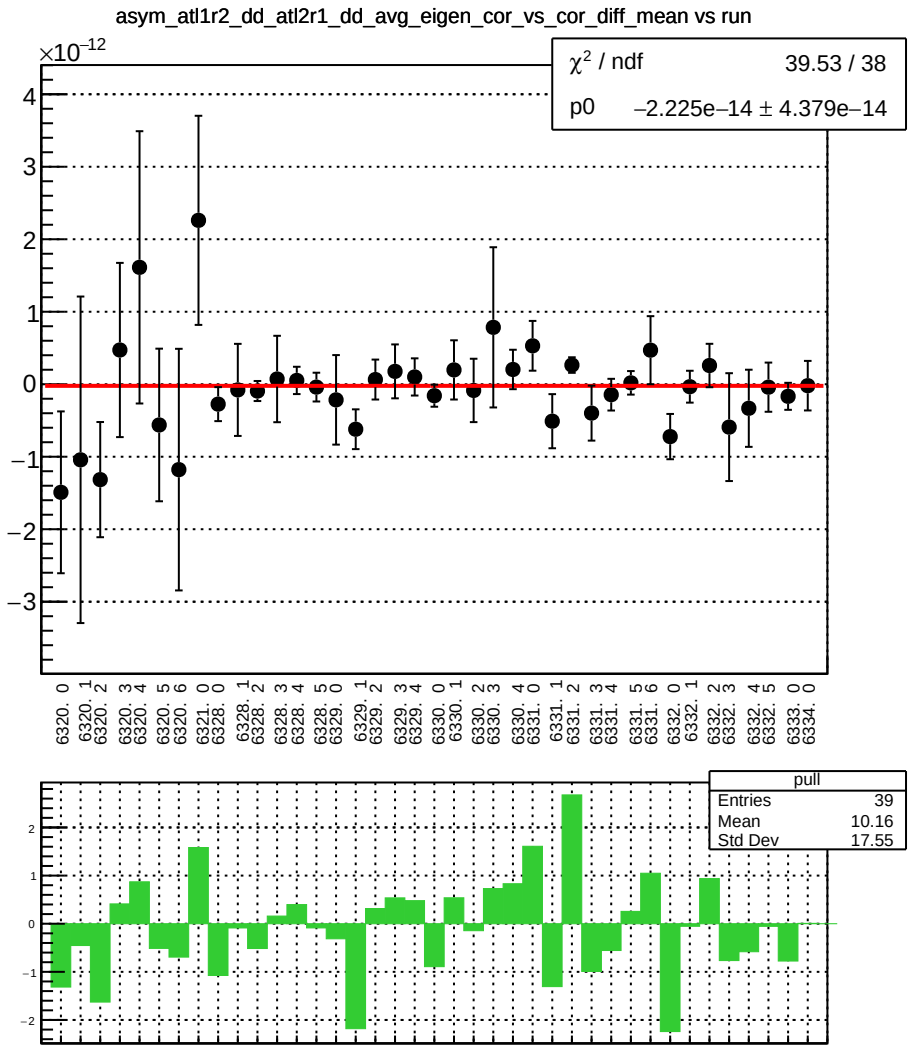

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.475e+05 / 38
p0 0.002958 ± 3.785e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

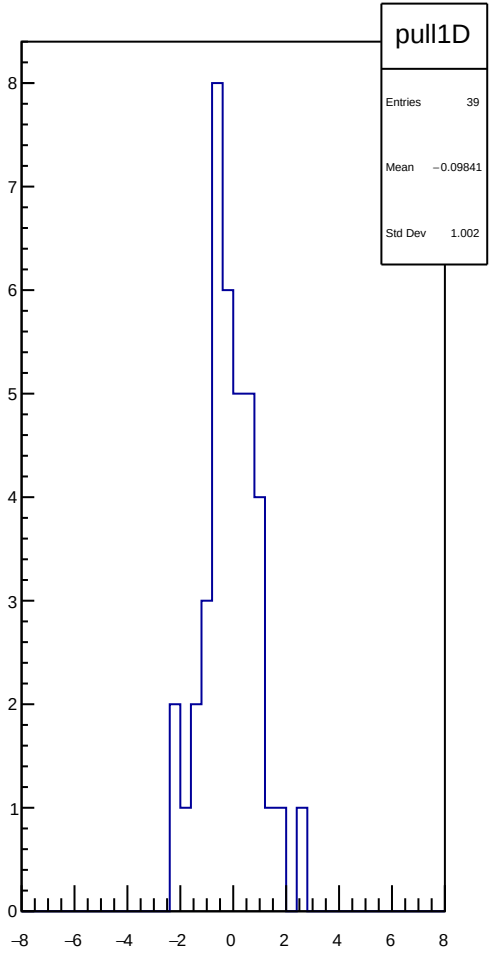

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07684 ± 0.1126
pull
Entries 39
Mean −49.97
Std Dev 0
pull1D
Entries 39
Mean −0.02071
Std Dev 0.9808

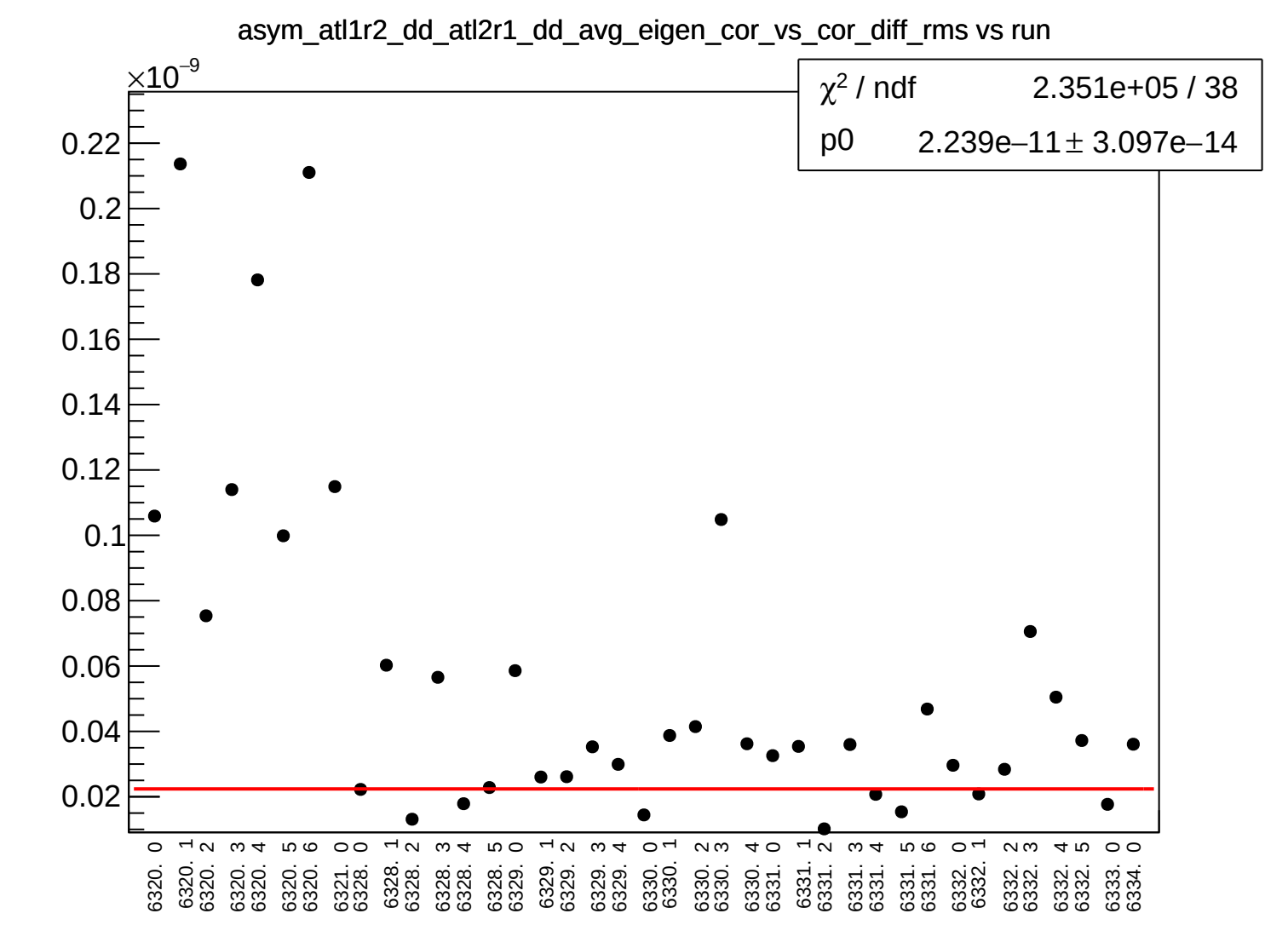

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

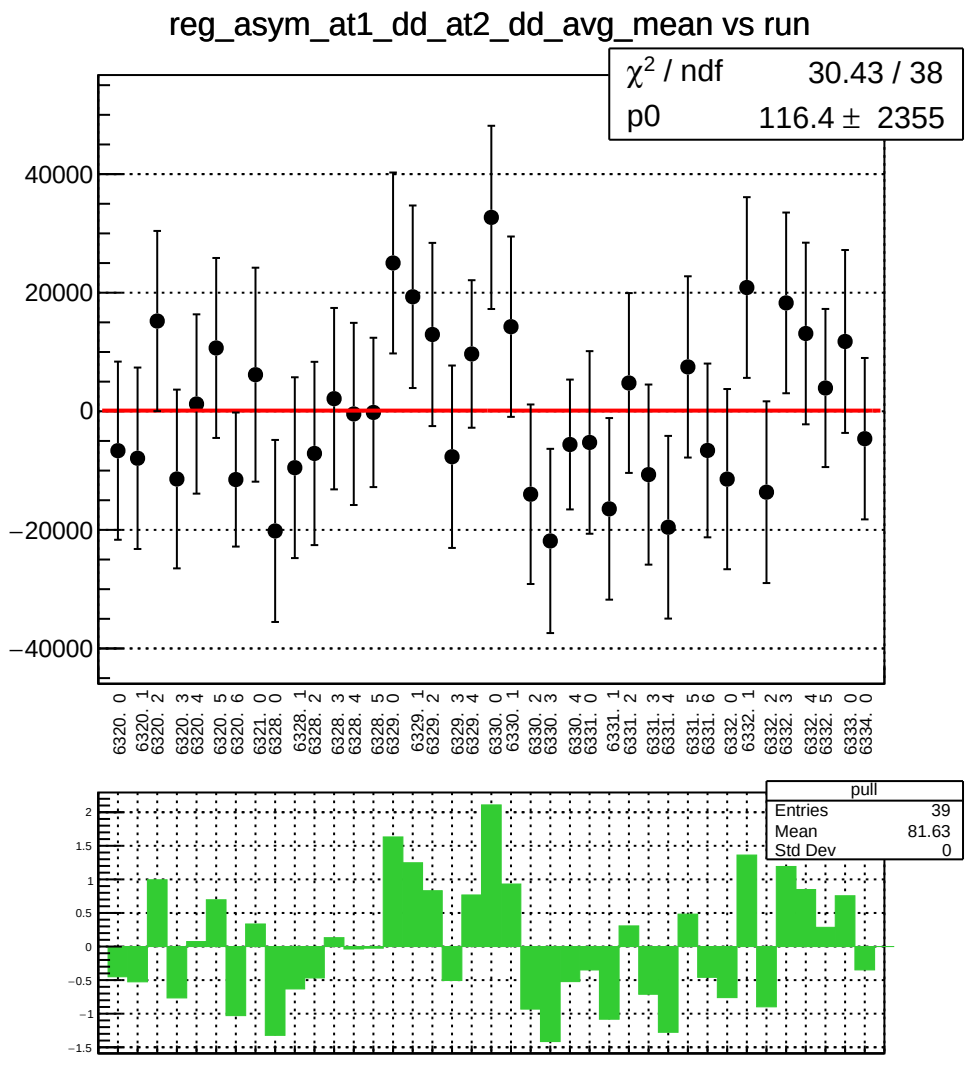

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.53 / 38
p0 0.07684 ± 0.1126
pull
Entries 39
Mean −49.97
Std Dev 0
pull1D
Entries 39
Mean −0.02071
Std Dev 0.9808

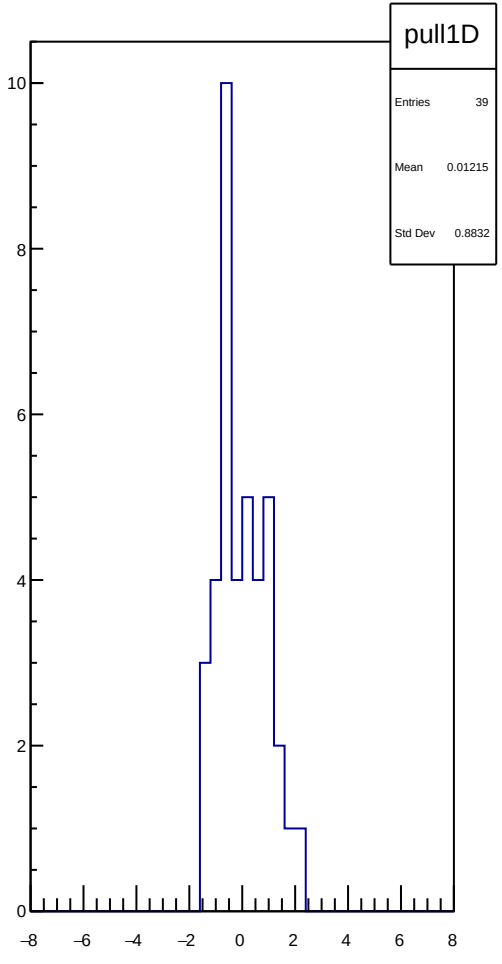

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.601e+04 / 38
p0 65.78 ± 0.07964
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

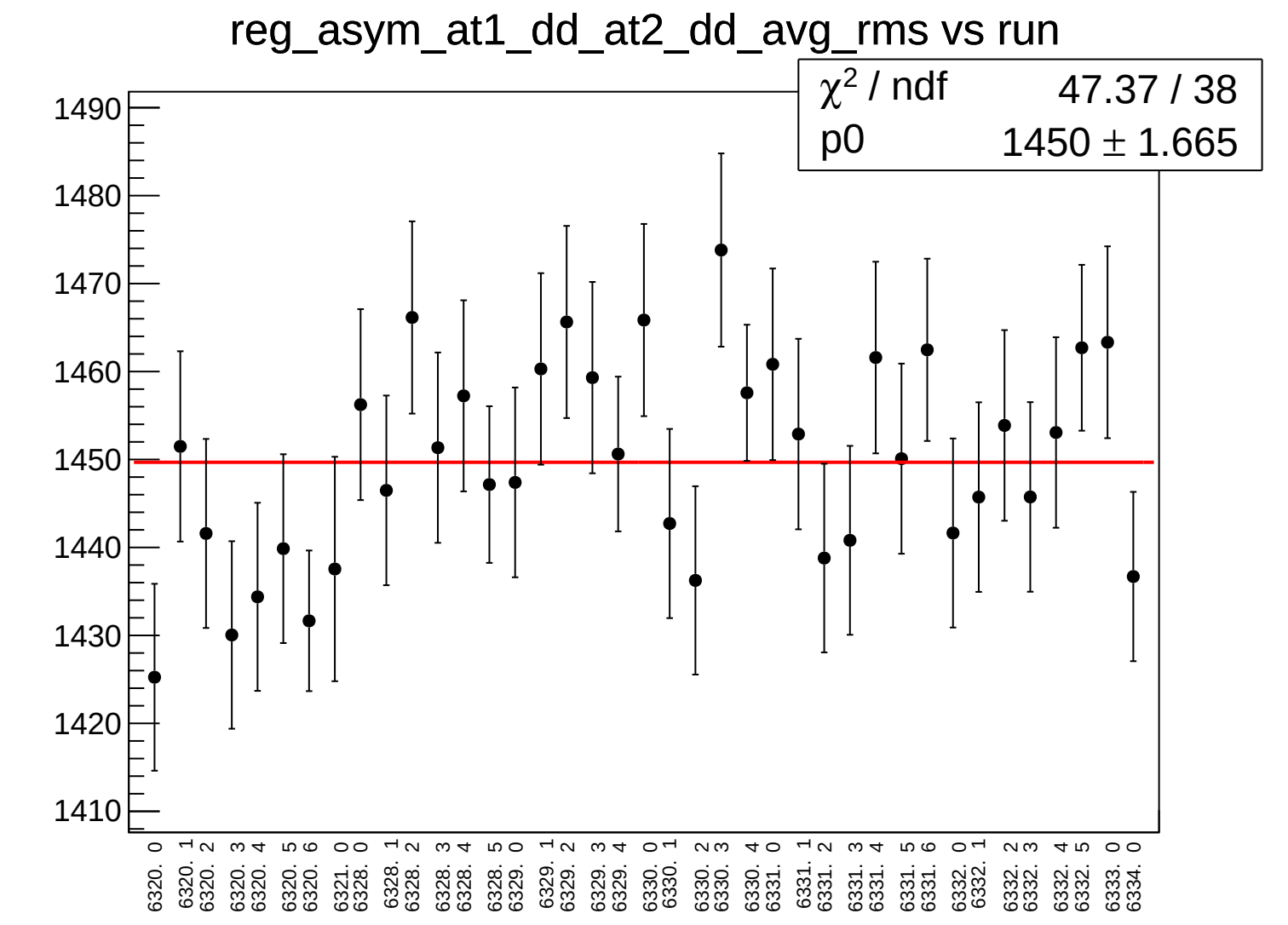

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 39.53 / 38
p0 −2.225e−14 ± 4.379e−14
pull
Entries 39
Mean 10.16
Std Dev 17.55

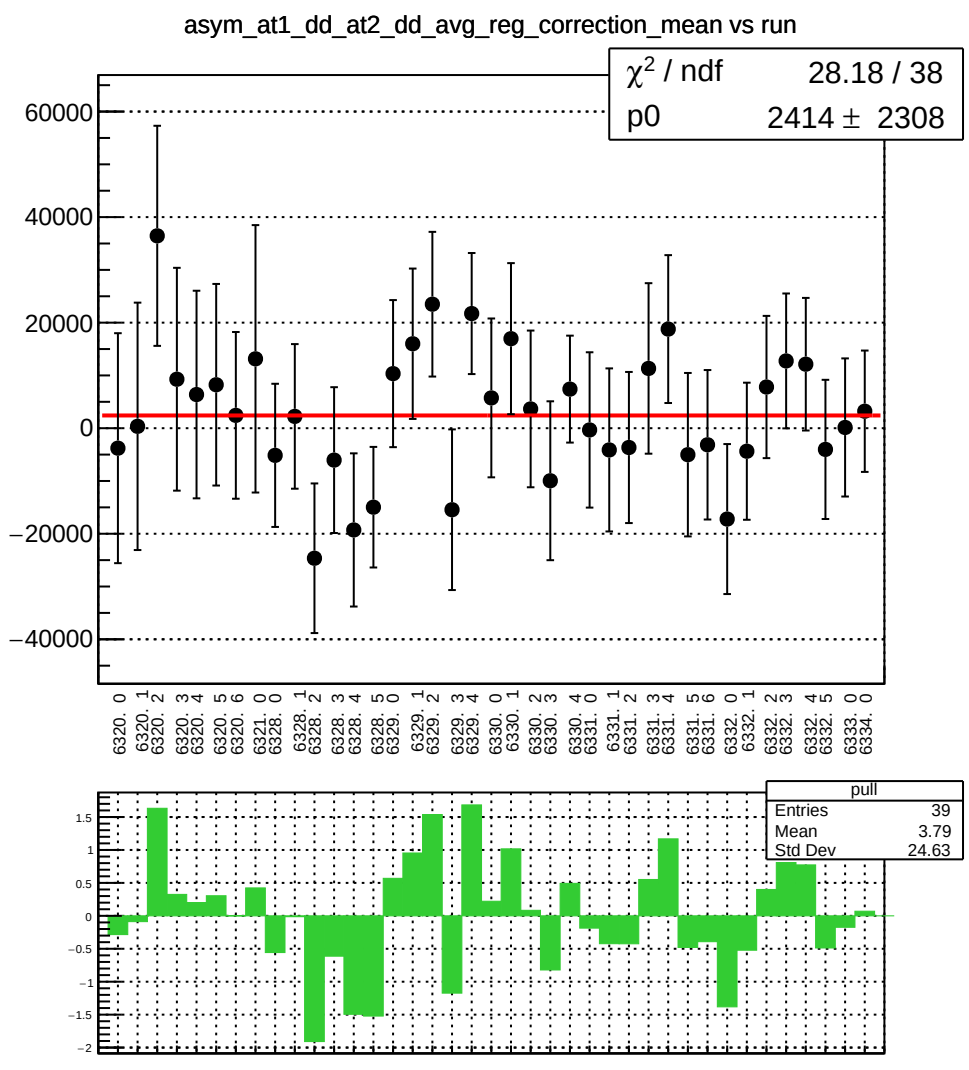

pull1D
Entries 39
Mean −0.09841
Std Dev 1.002

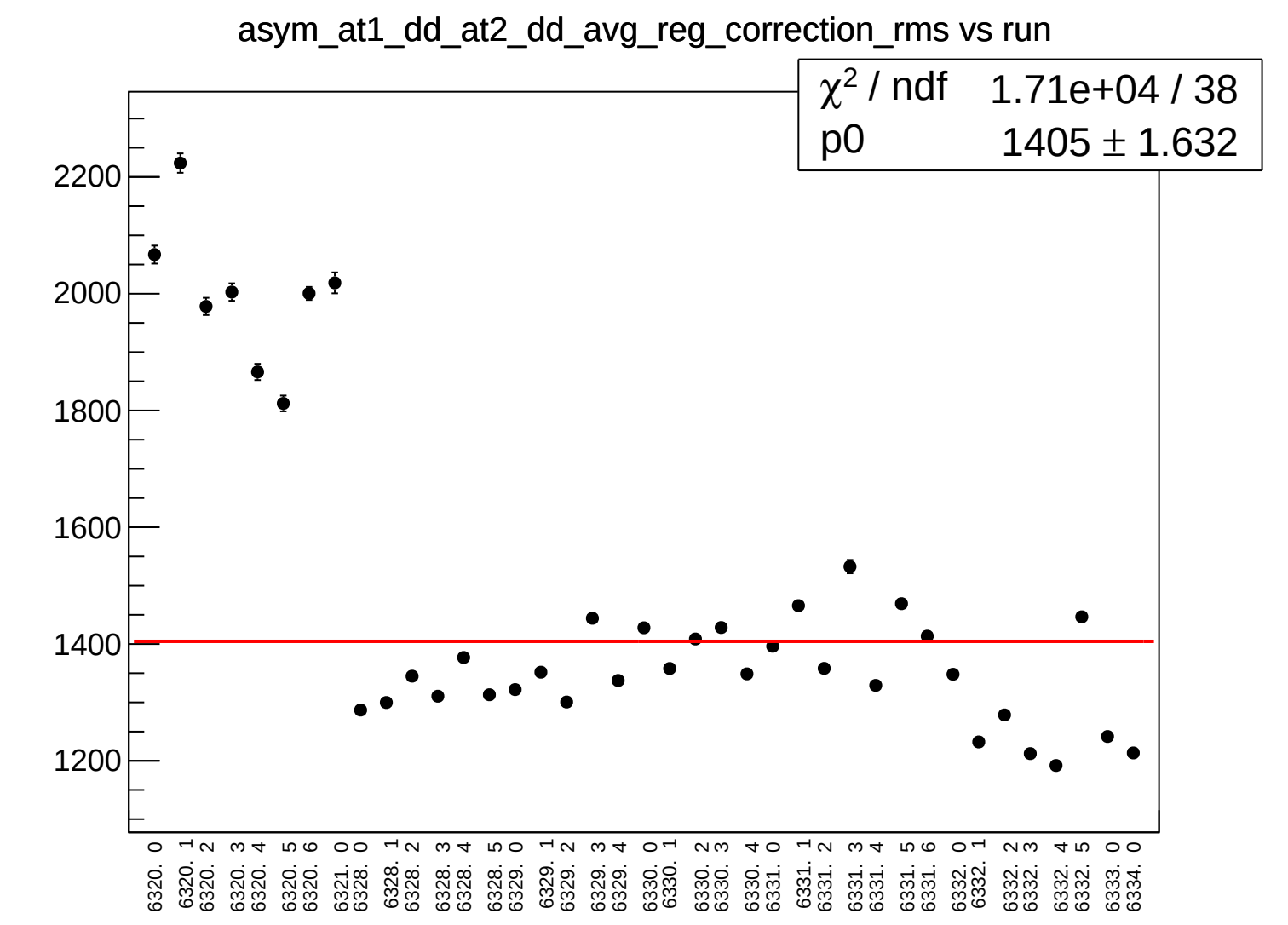

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.351e+05 / 38
p0 2.239e−11 ± 3.097e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

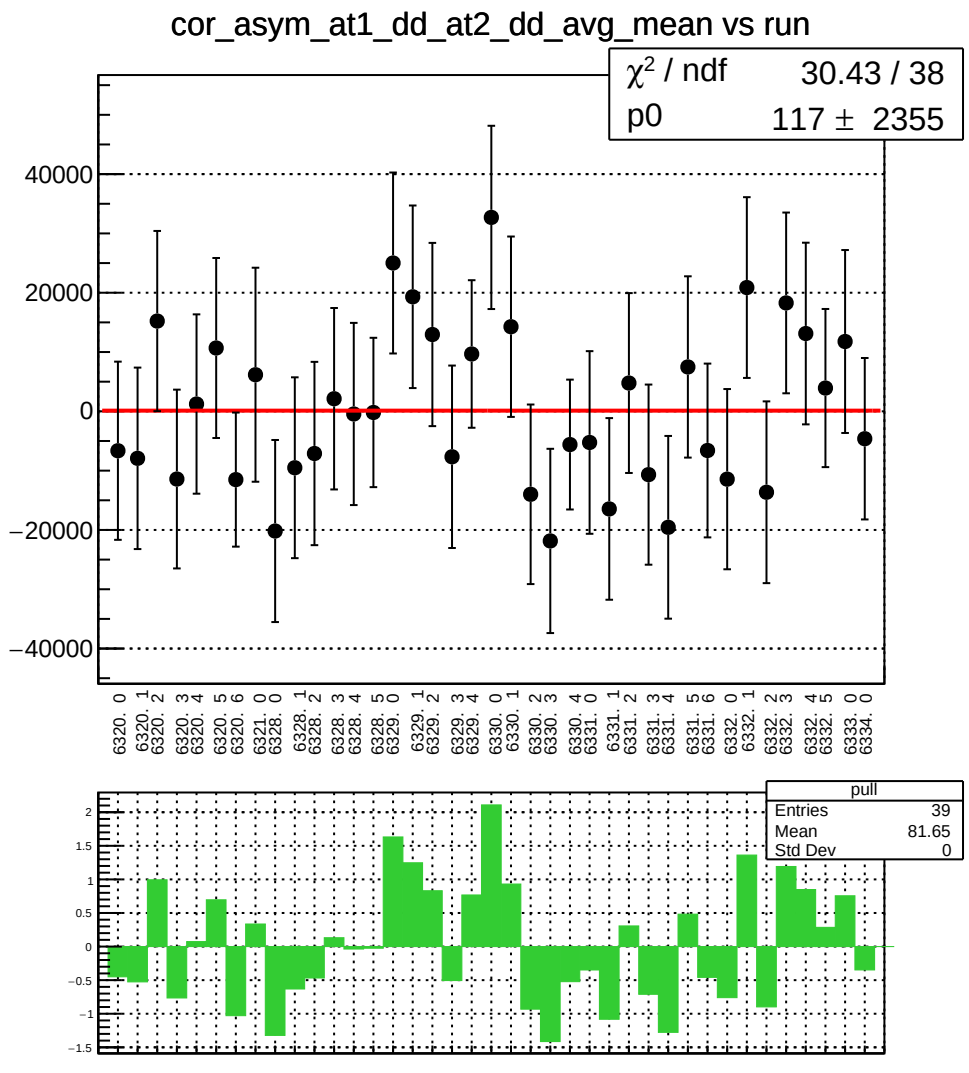

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 30.43 / 38
p0 116.4 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

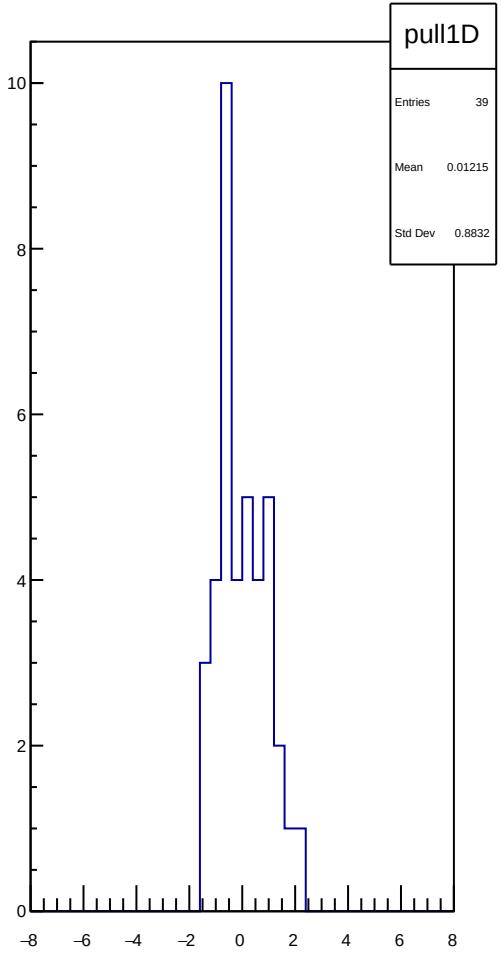

pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

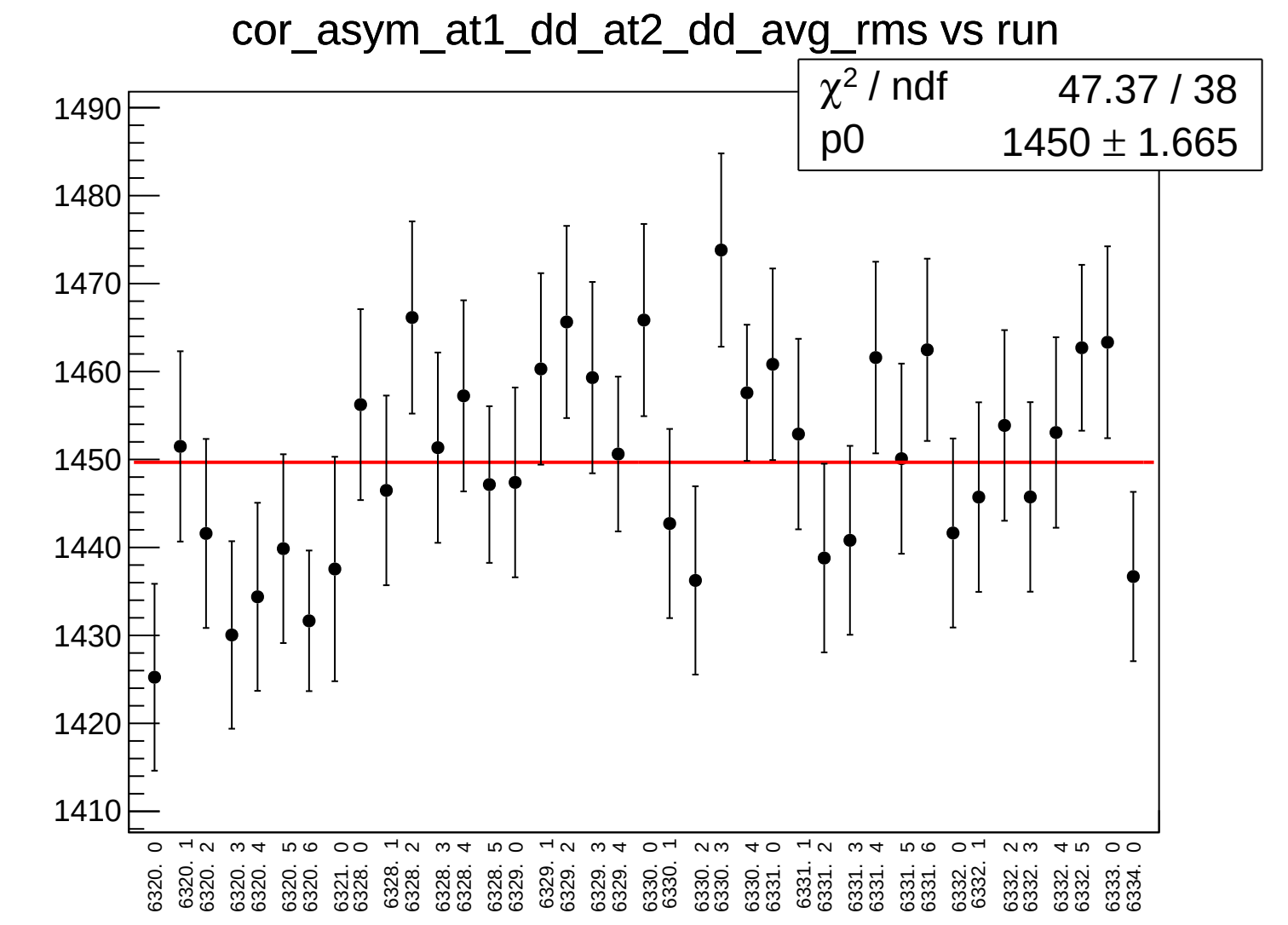

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

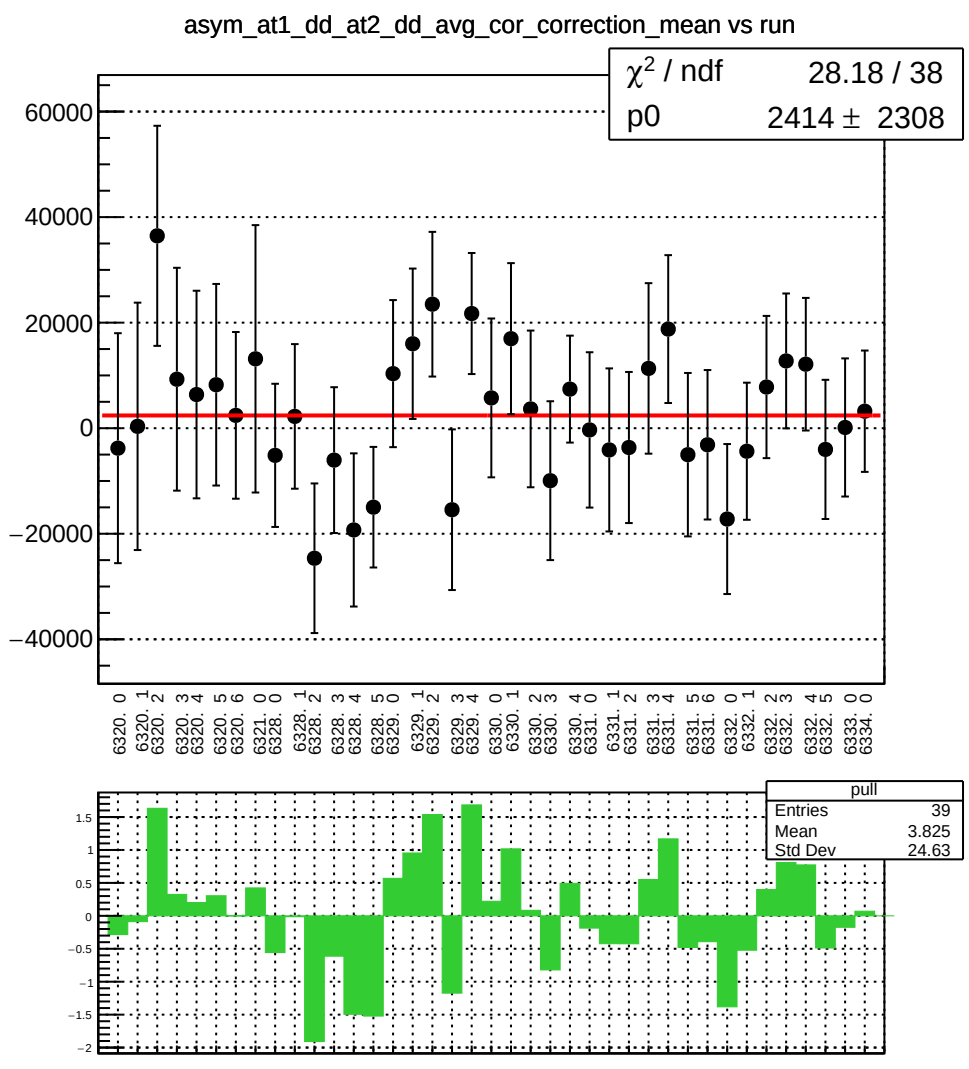

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.79
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.007055
Std Dev 0.85
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

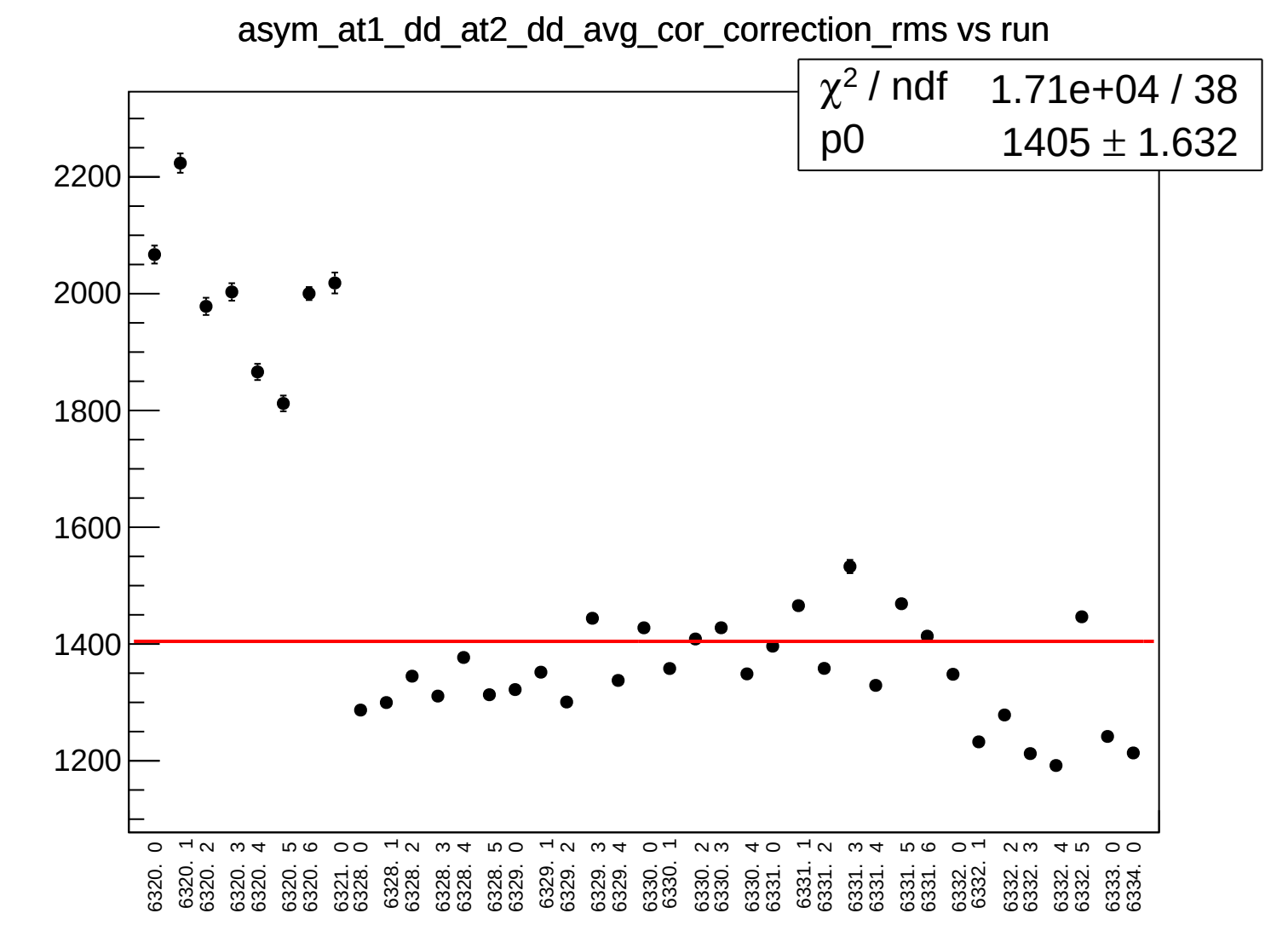

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

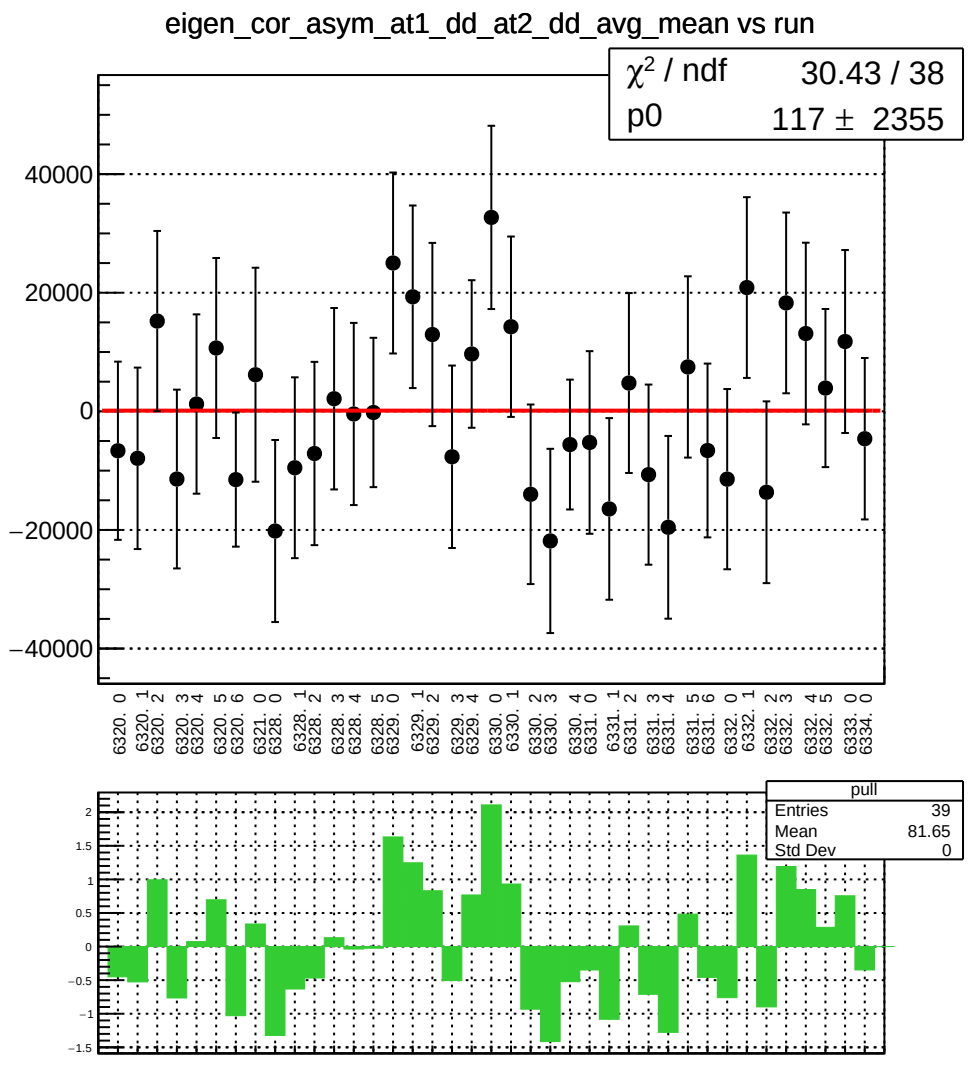

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 30.43 / 38
p0 117 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

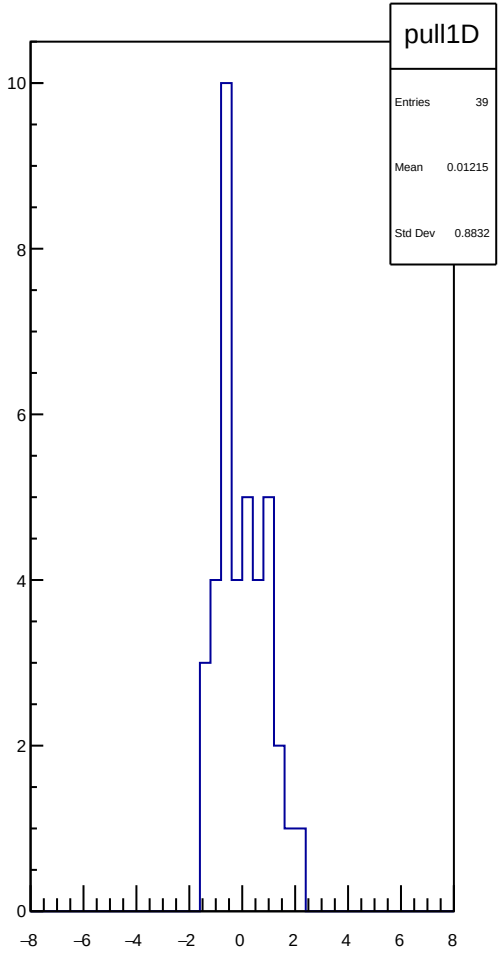

pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

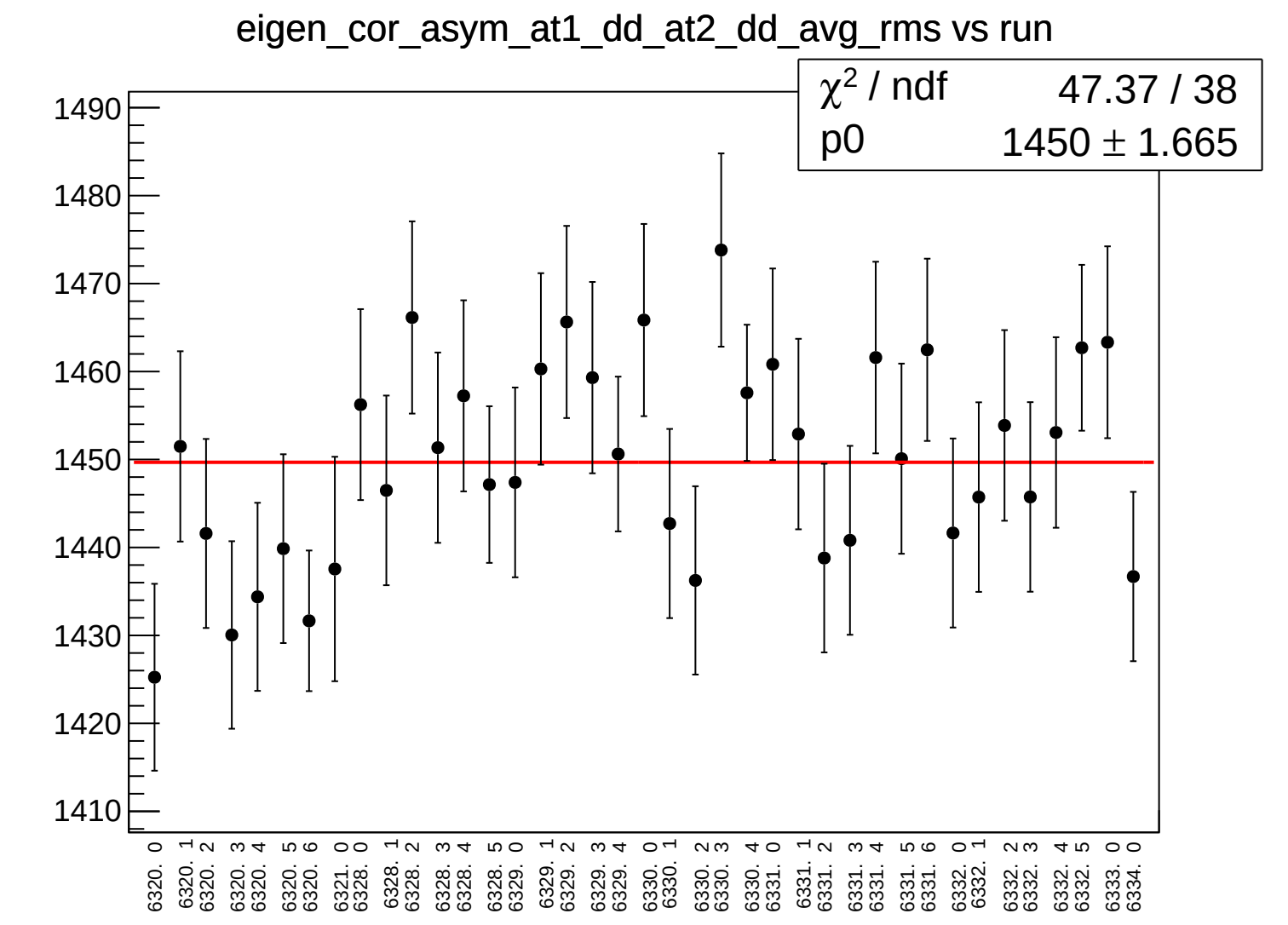

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

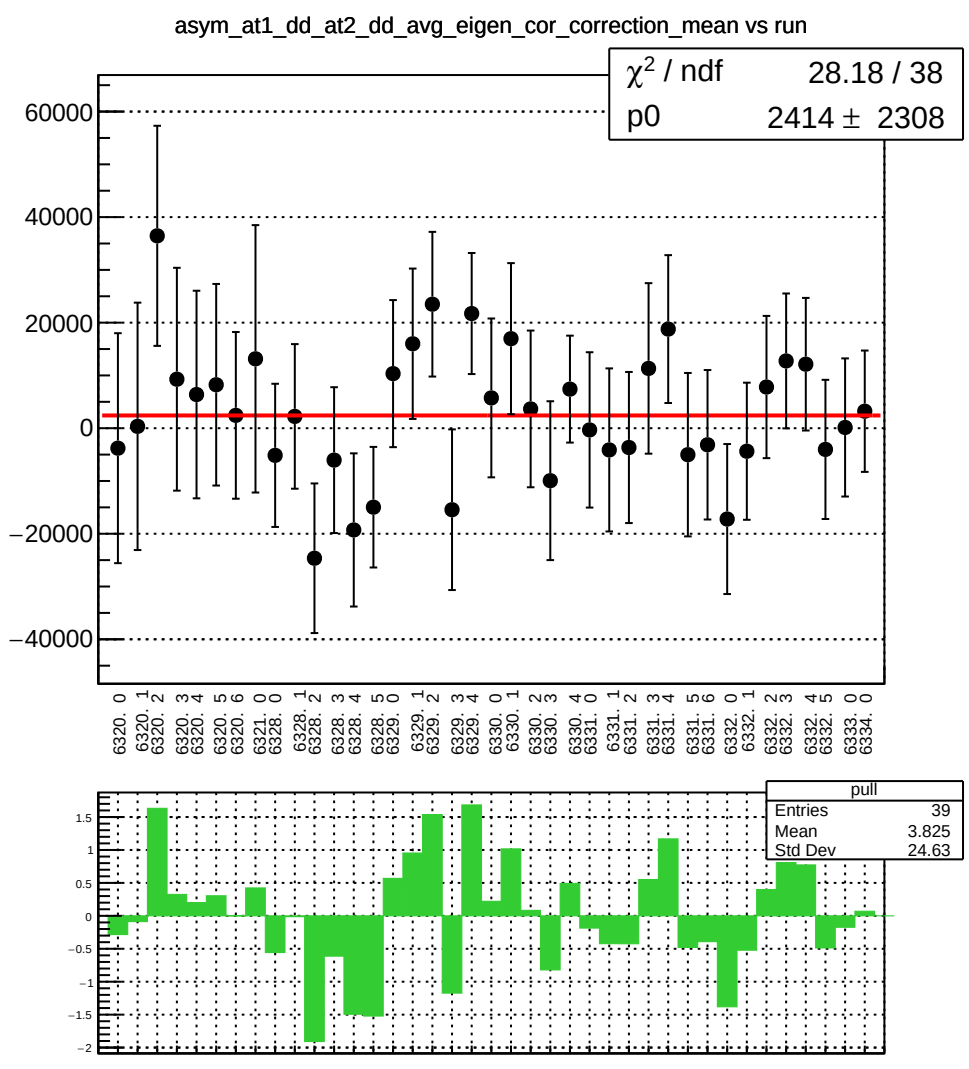

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.825
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.00706
Std Dev 0.85
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

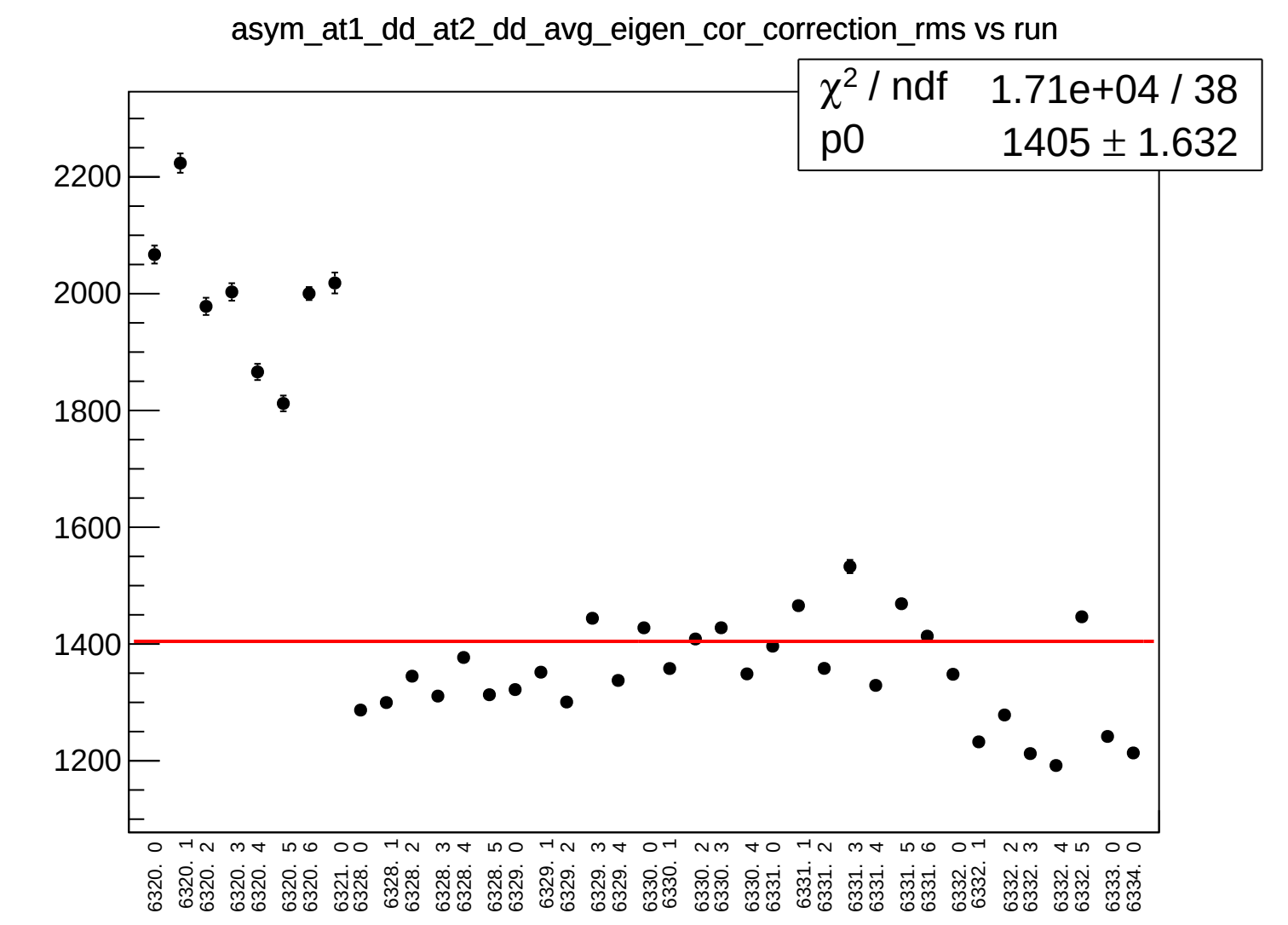

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 30.43 / 38
p0 117 ± 2355
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 81.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01215
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 47.37 / 38
p0 1450 ± 1.665
1490
1480
1470
1460
1450
1440
1430
1420
1410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.18 / 38
p0 2414 ± 2308
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.825
Std Dev 24.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.00706
Std Dev 0.85
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_correction_rms vs run
χ² / ndf 1.71e+04 / 38
p0 1405 ± 1.632
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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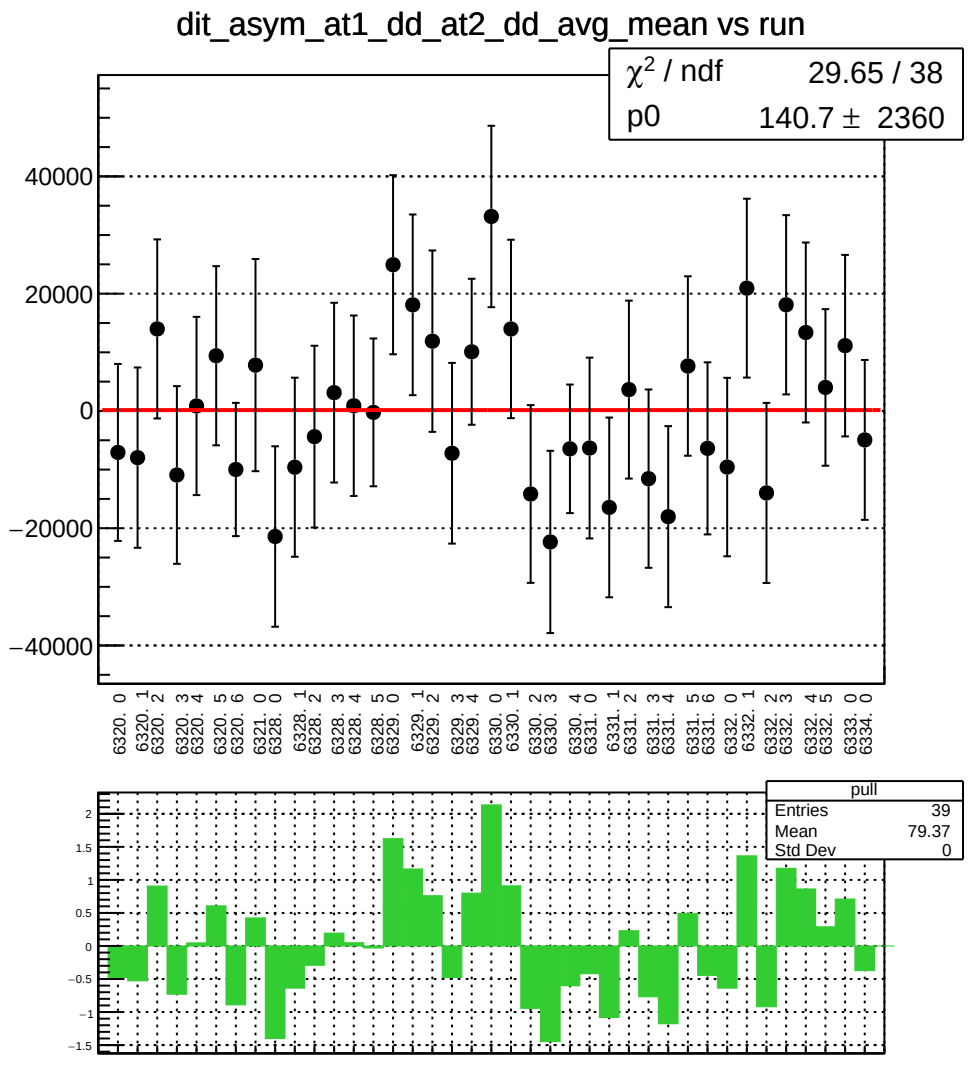
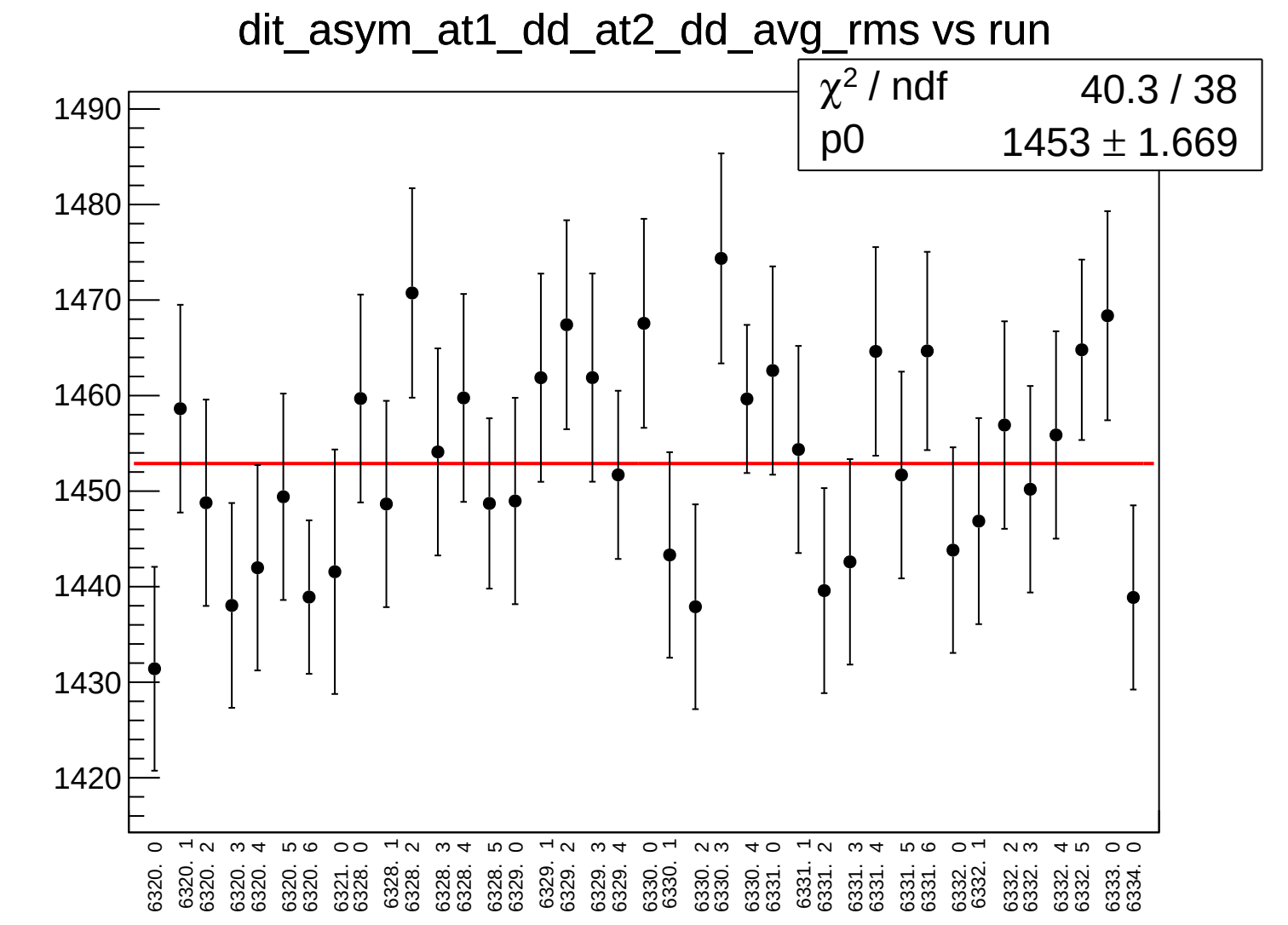
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 29.65 / 38
p0 140.7 ± 2360
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 79.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0119
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 40.3 / 38
p0 1453 ± 1.669
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6331. 6
6332. 0
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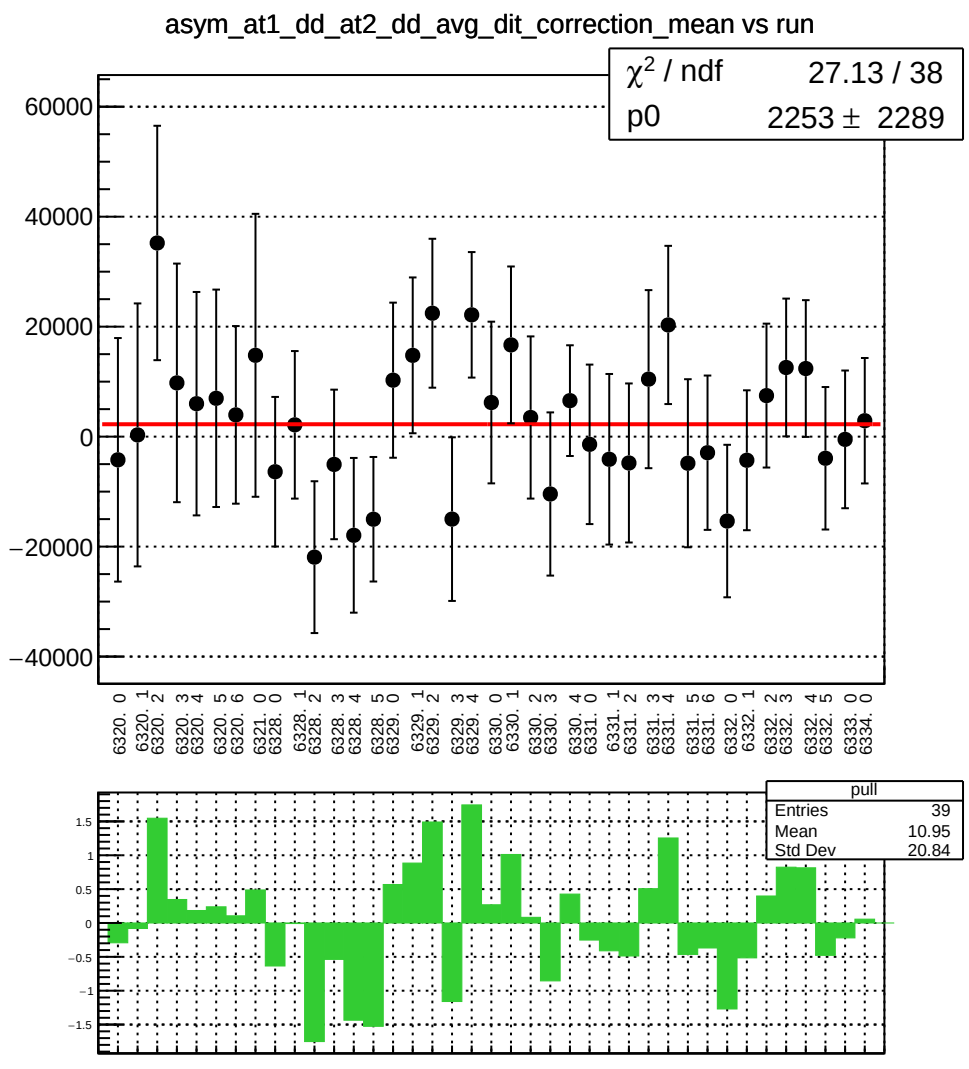
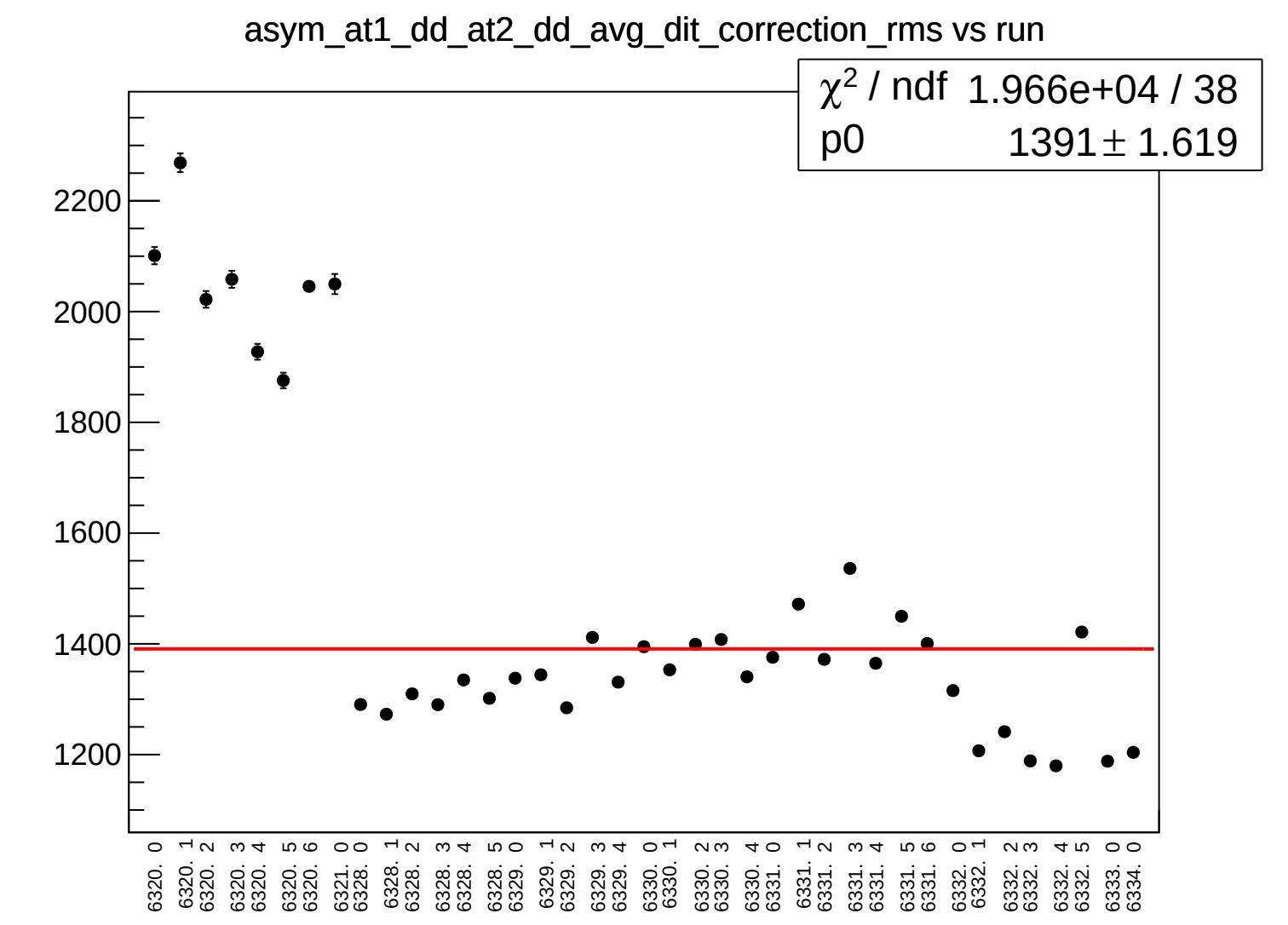
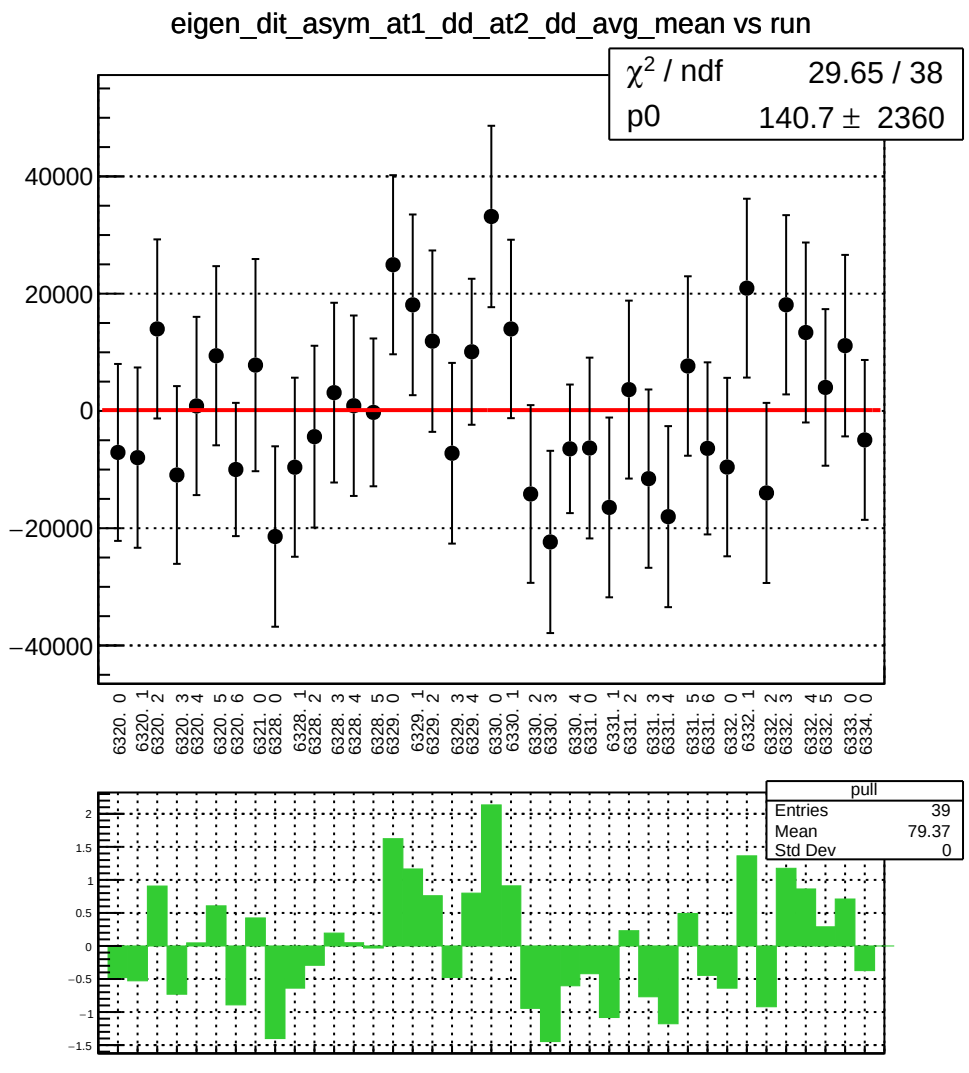
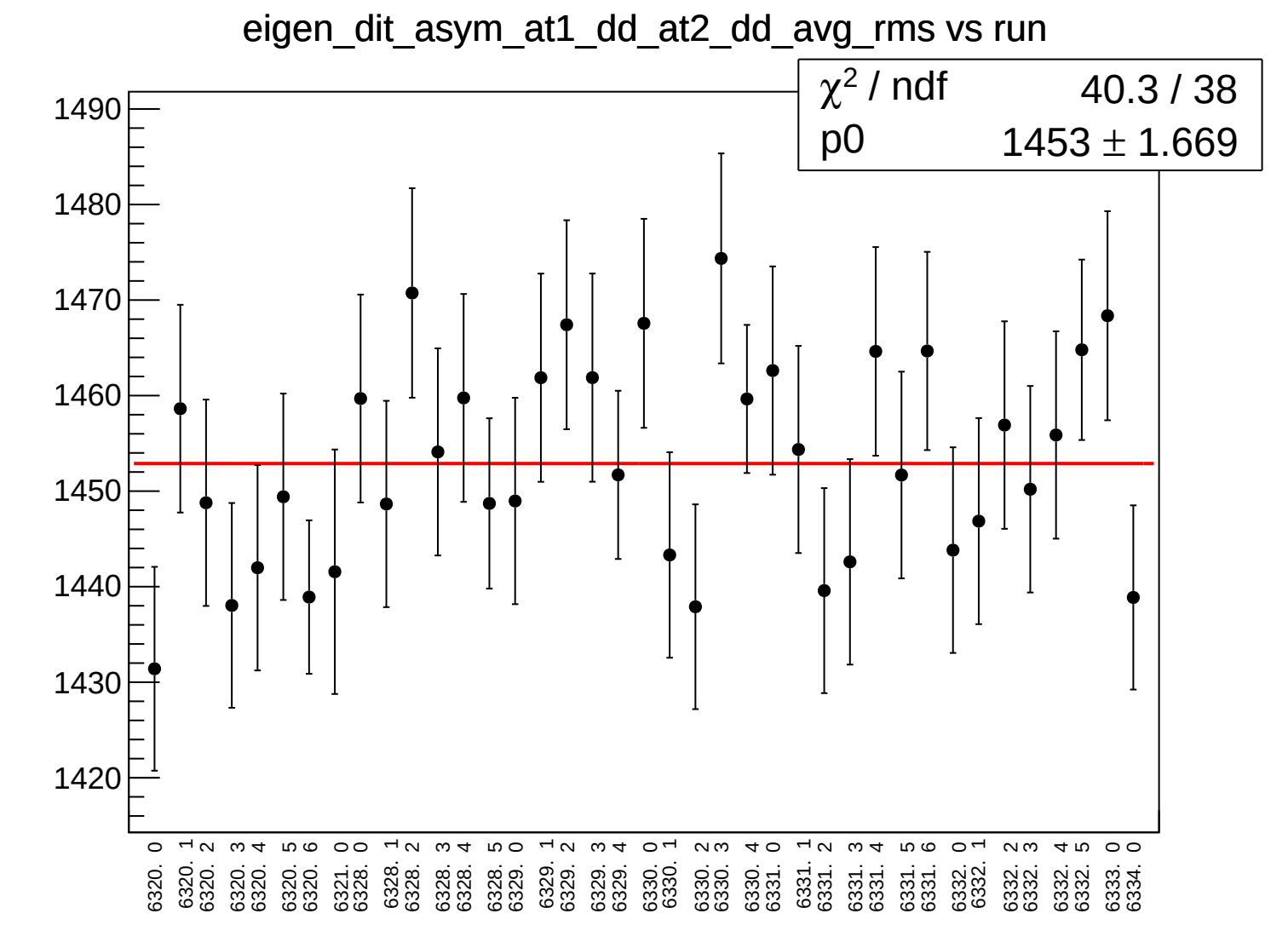
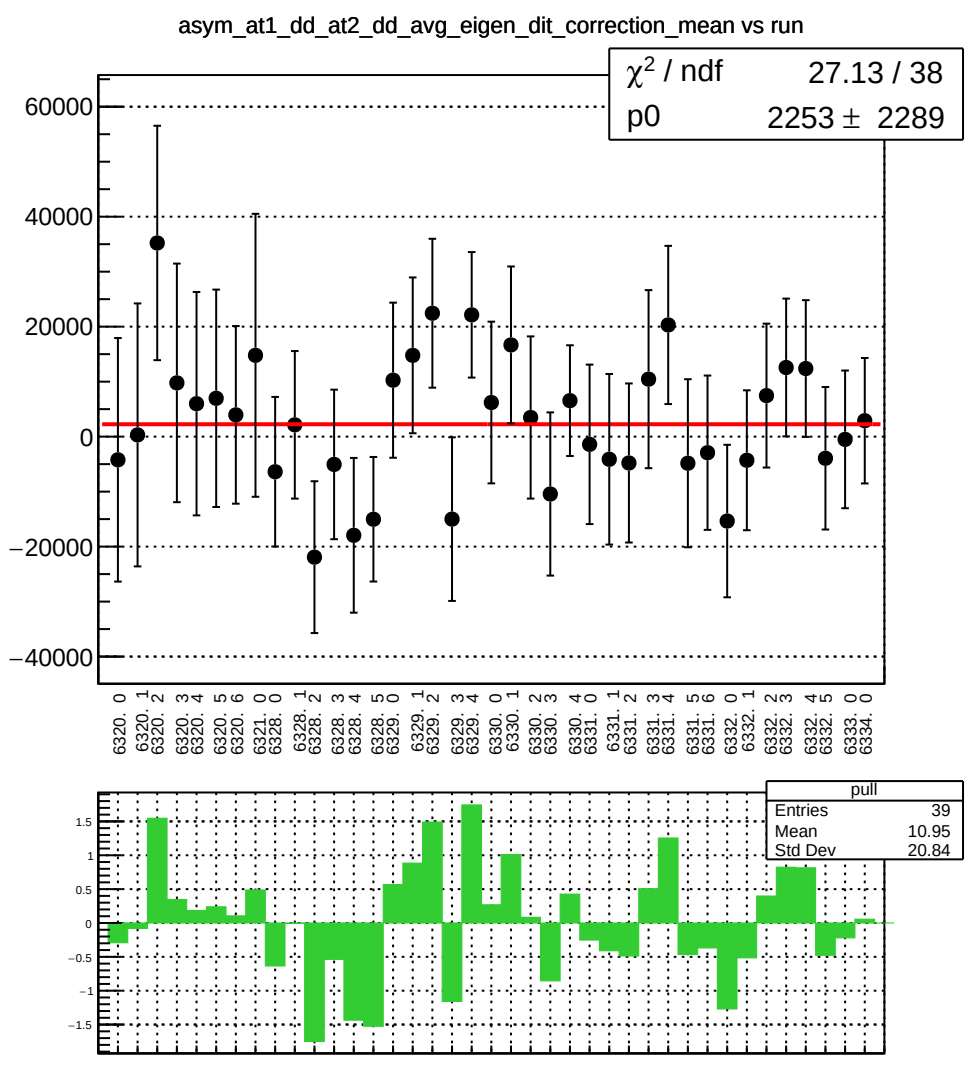
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 27.13 / 38
p0 2253 ± 2289
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.95
Std Dev 20.84
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01272
Std Dev 0.8339
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 1.966e+04 / 38
p0 1391 ± 1.619
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 29.65 / 38
p0 140.7 ± 2360
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 79.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0119
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 40.3 / 38
p0 1453 ± 1.669
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.13 / 38
p0 2253 ± 2289
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.95
Std Dev 20.84
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01272
Std Dev 0.8339
8
7
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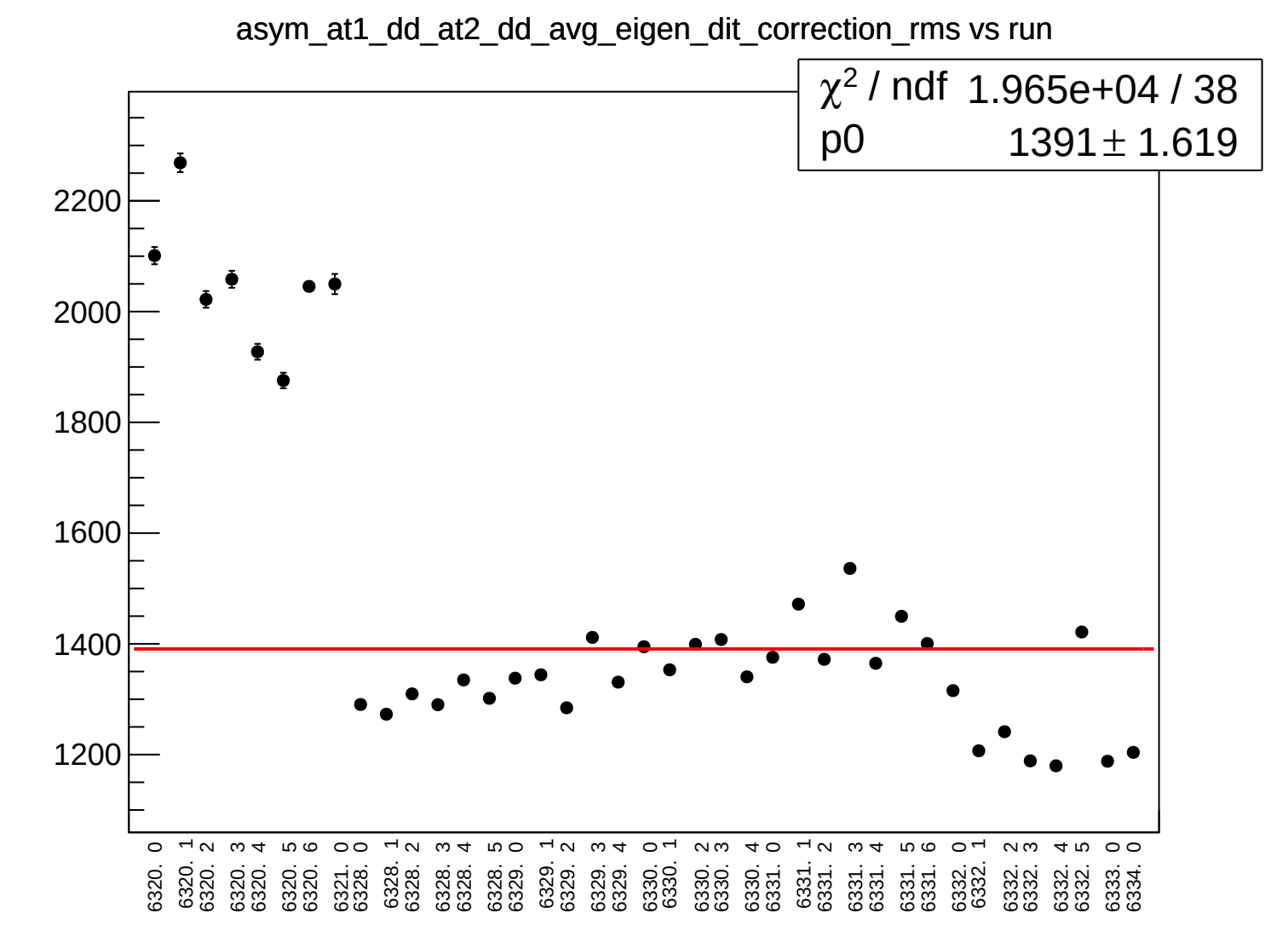
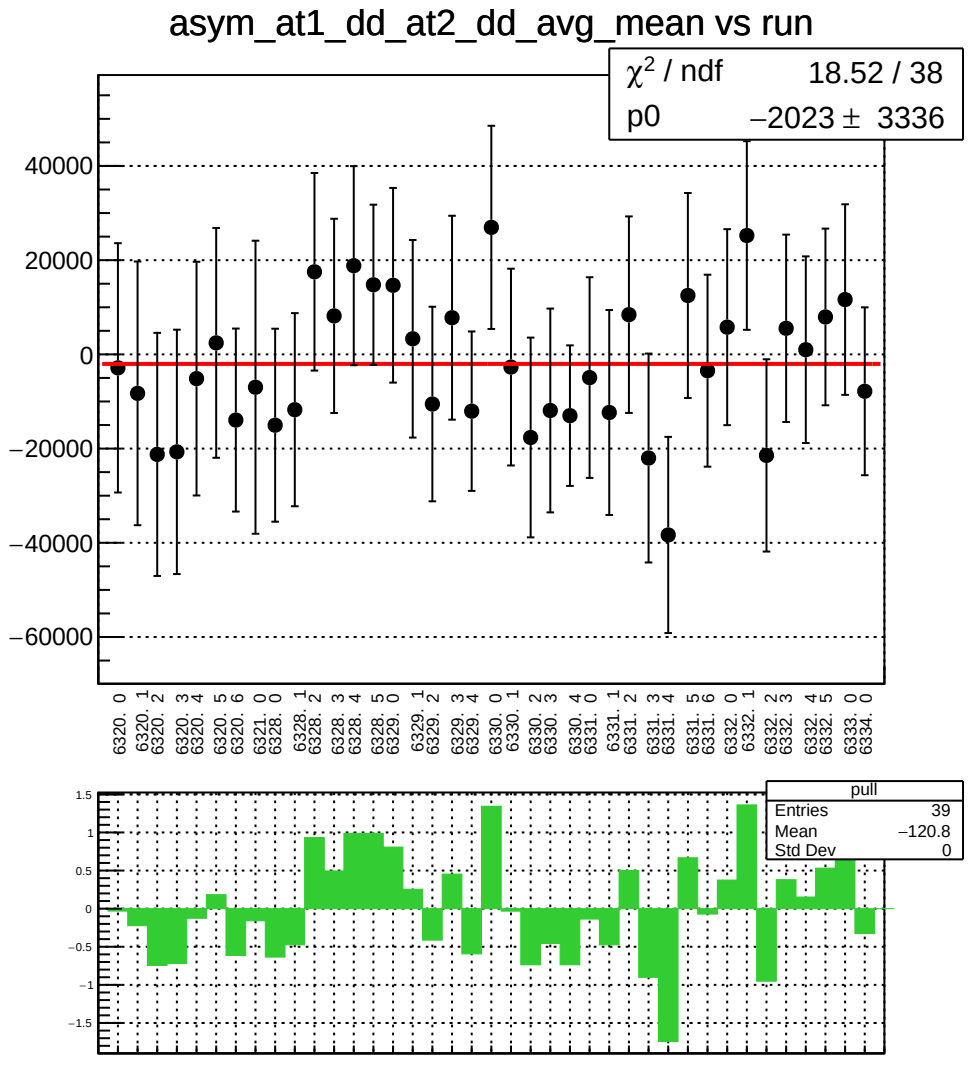
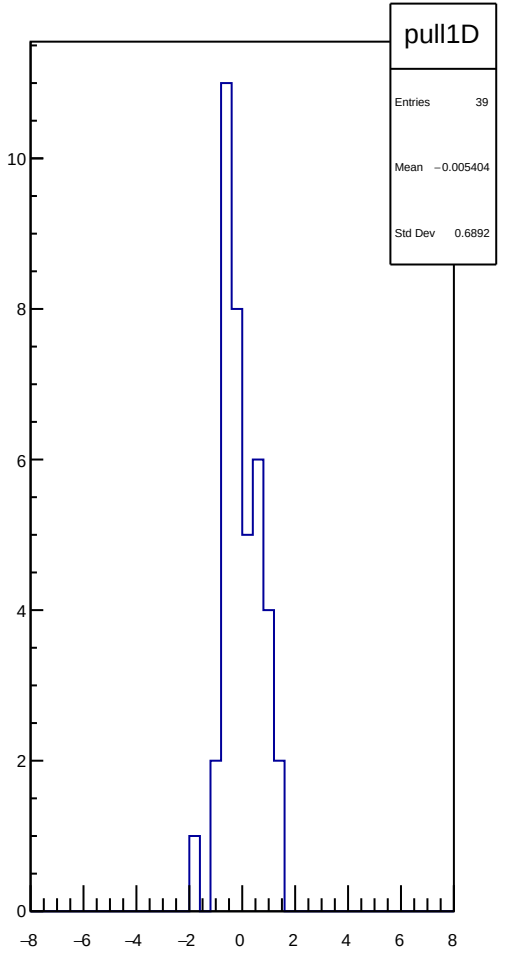
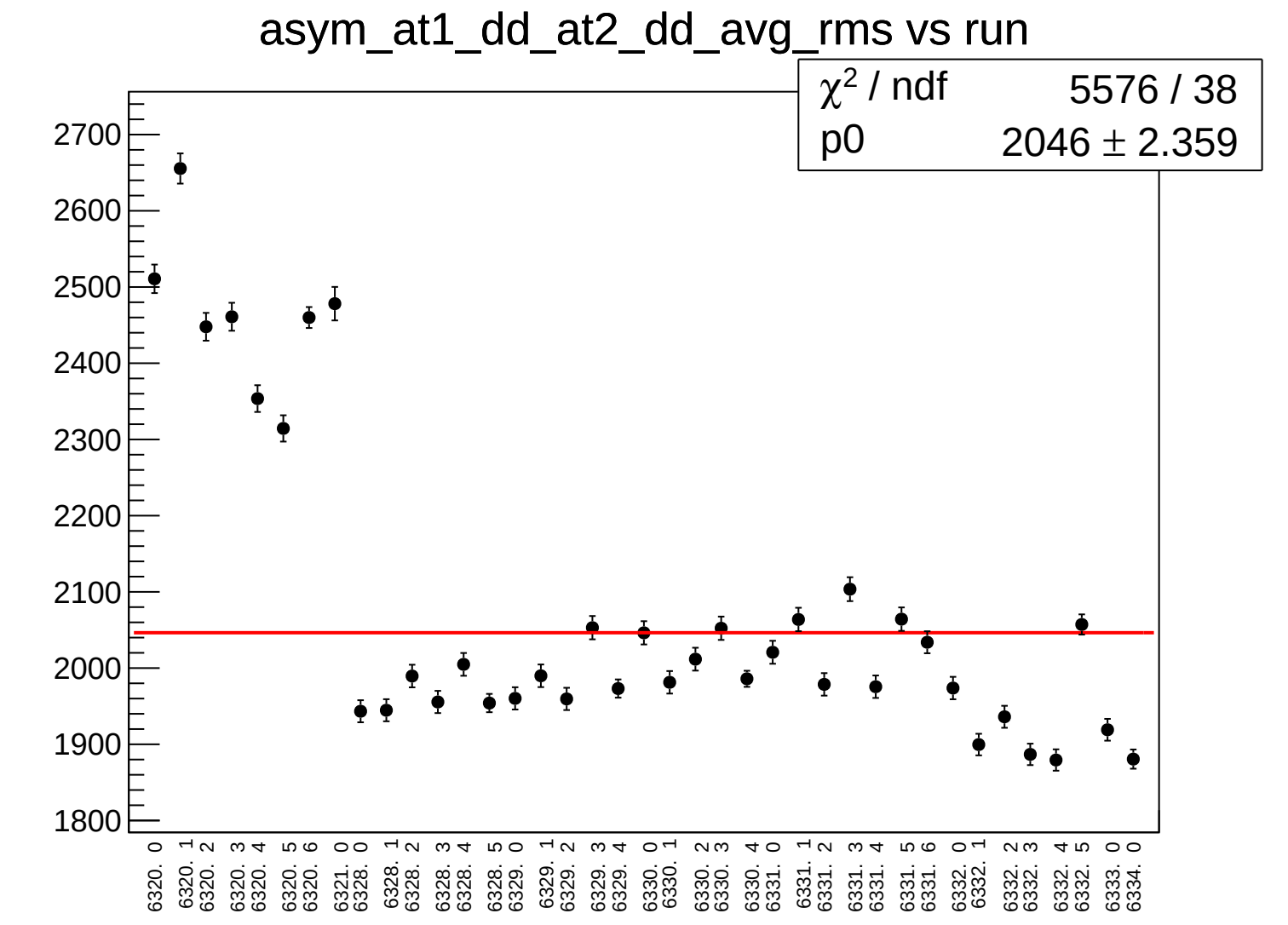
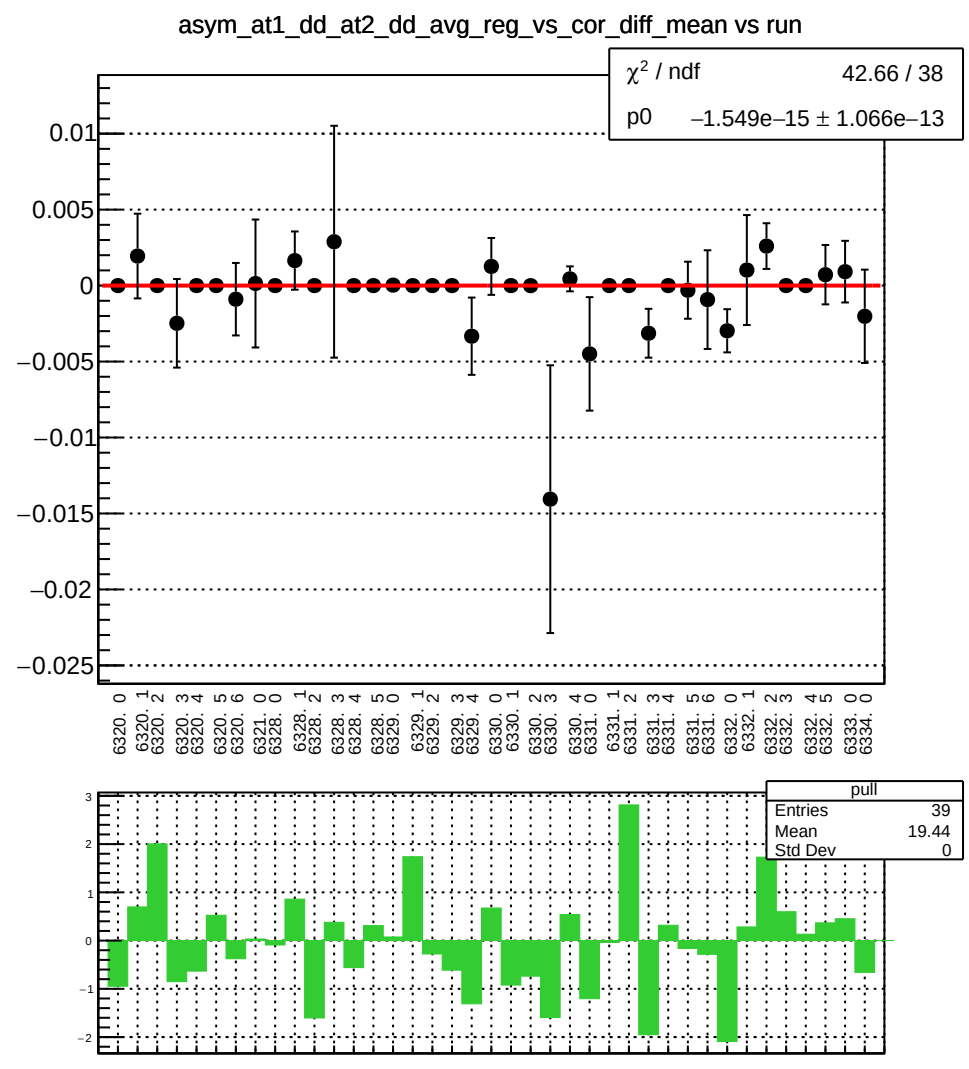
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

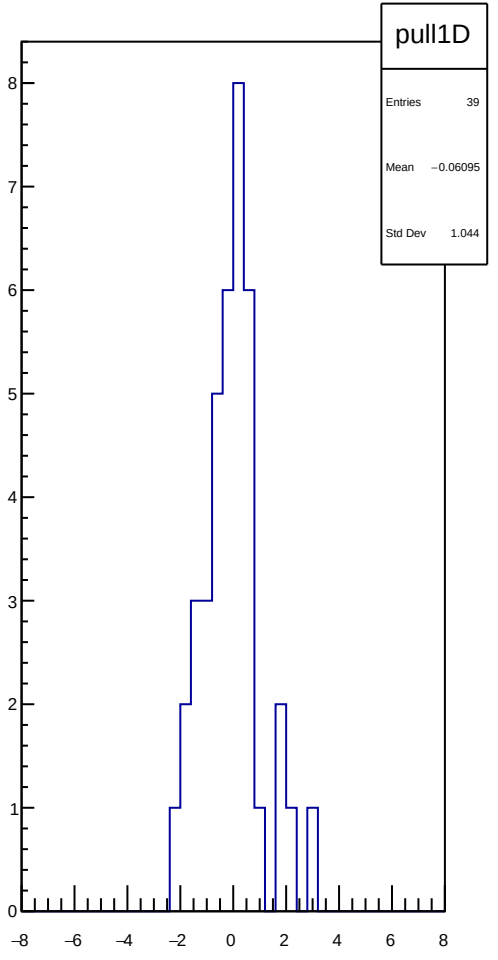

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 38
p0 1391 ± 1.619
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

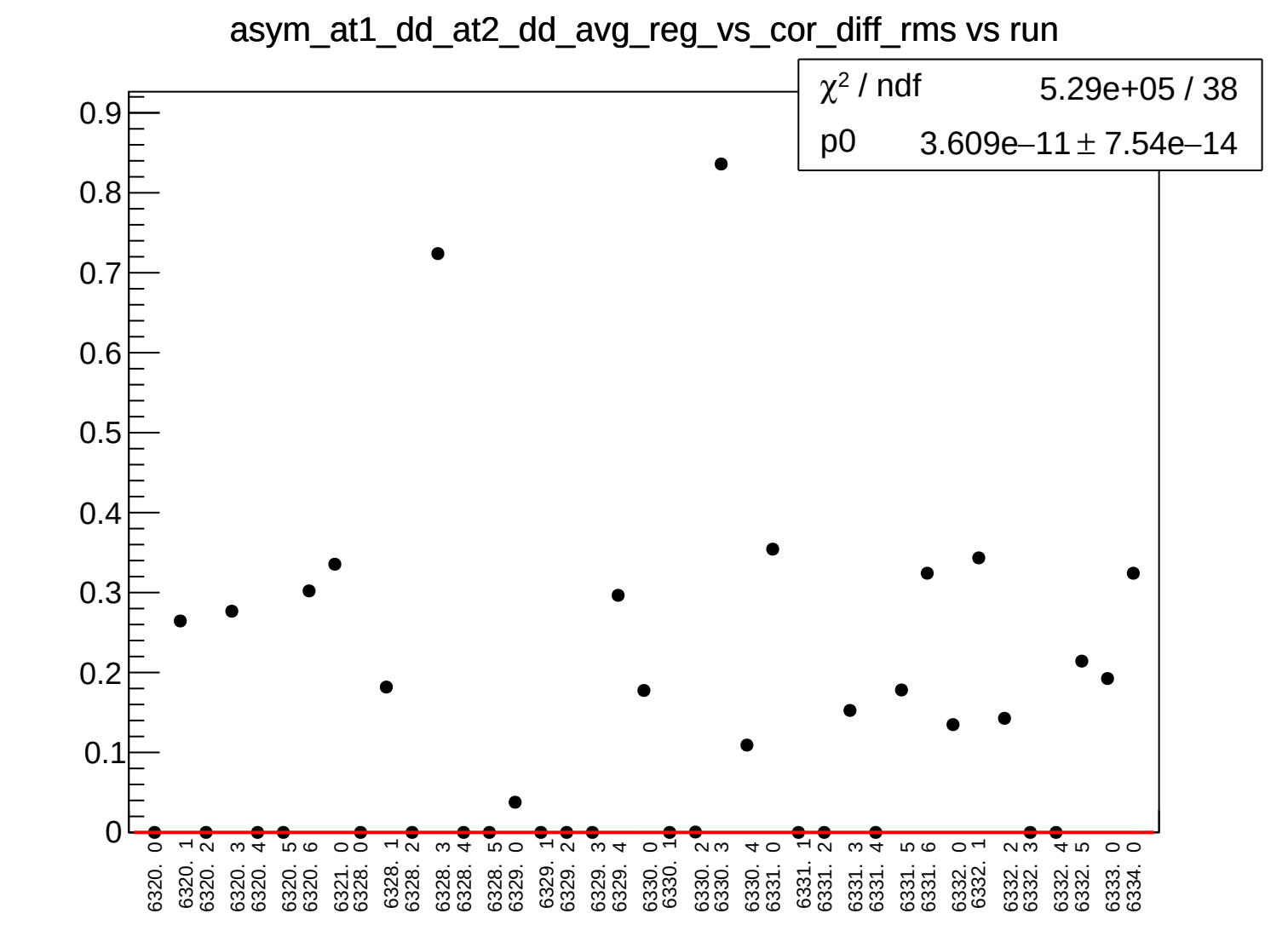

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.52 / 38
p0 −2023 ± 3336
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −120.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

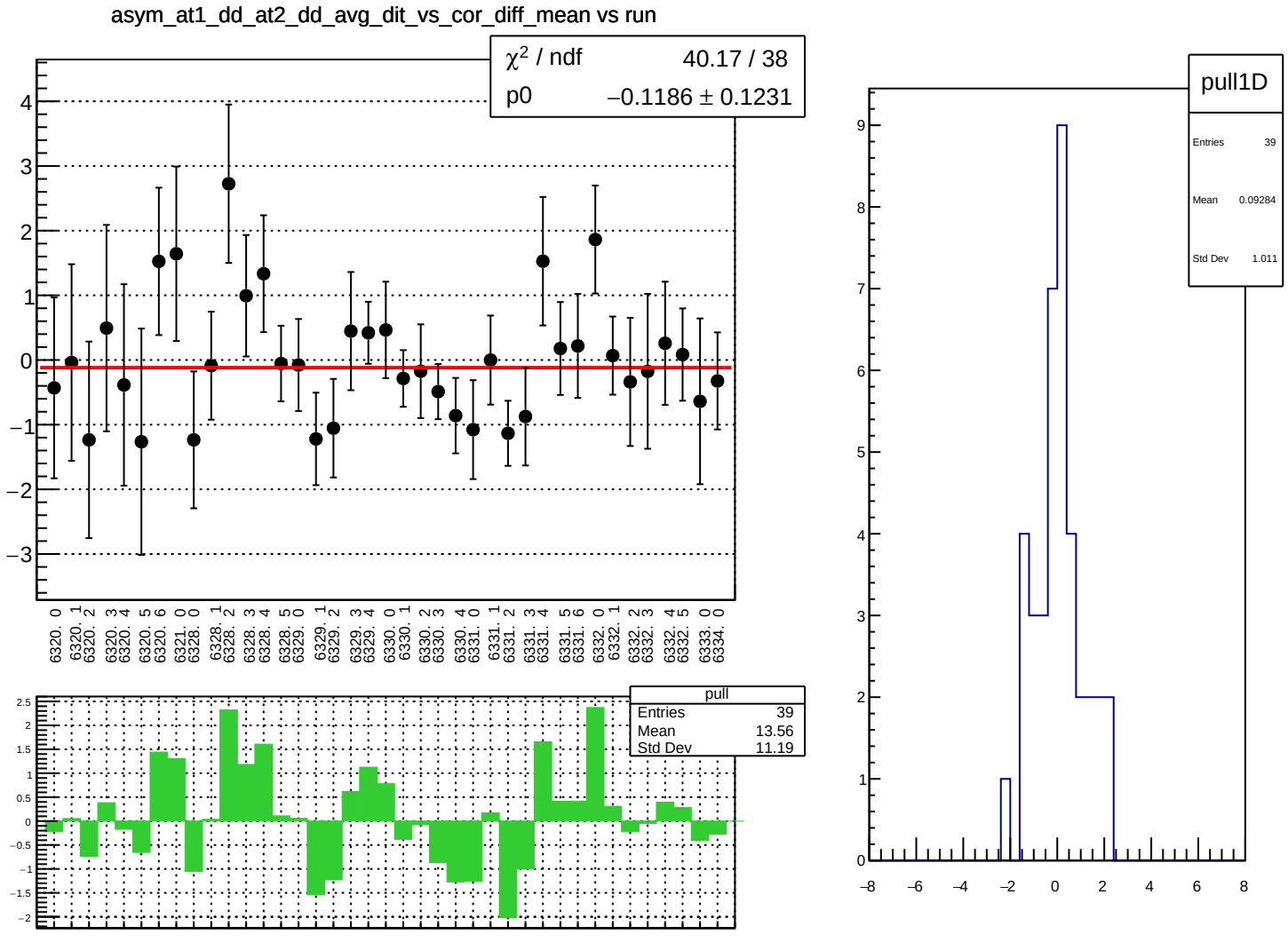

pull1D
Entries 39
Mean −0.005404
Std Dev 0.6892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

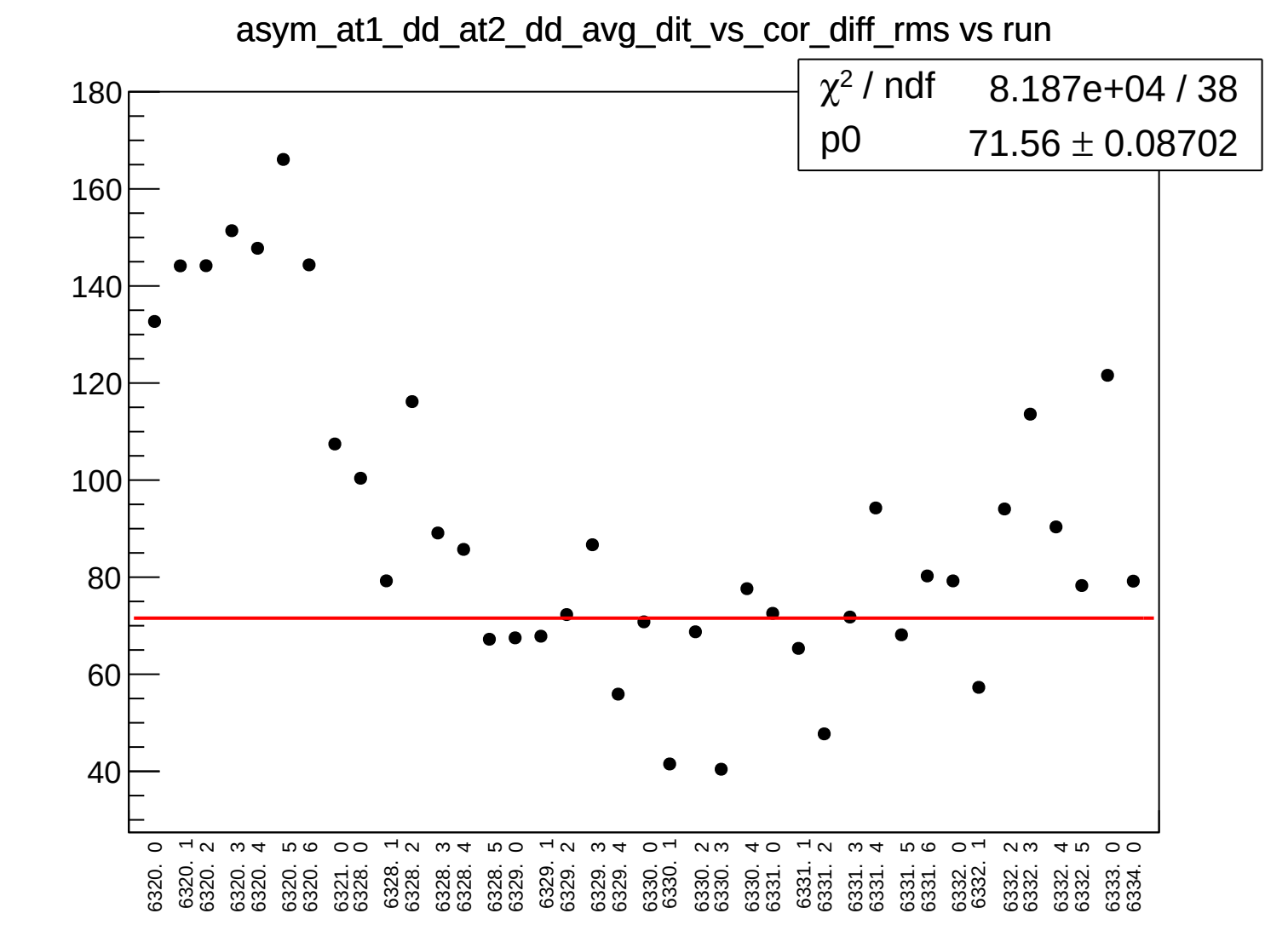

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 5576 / 38
p0 2046 ± 2.359
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

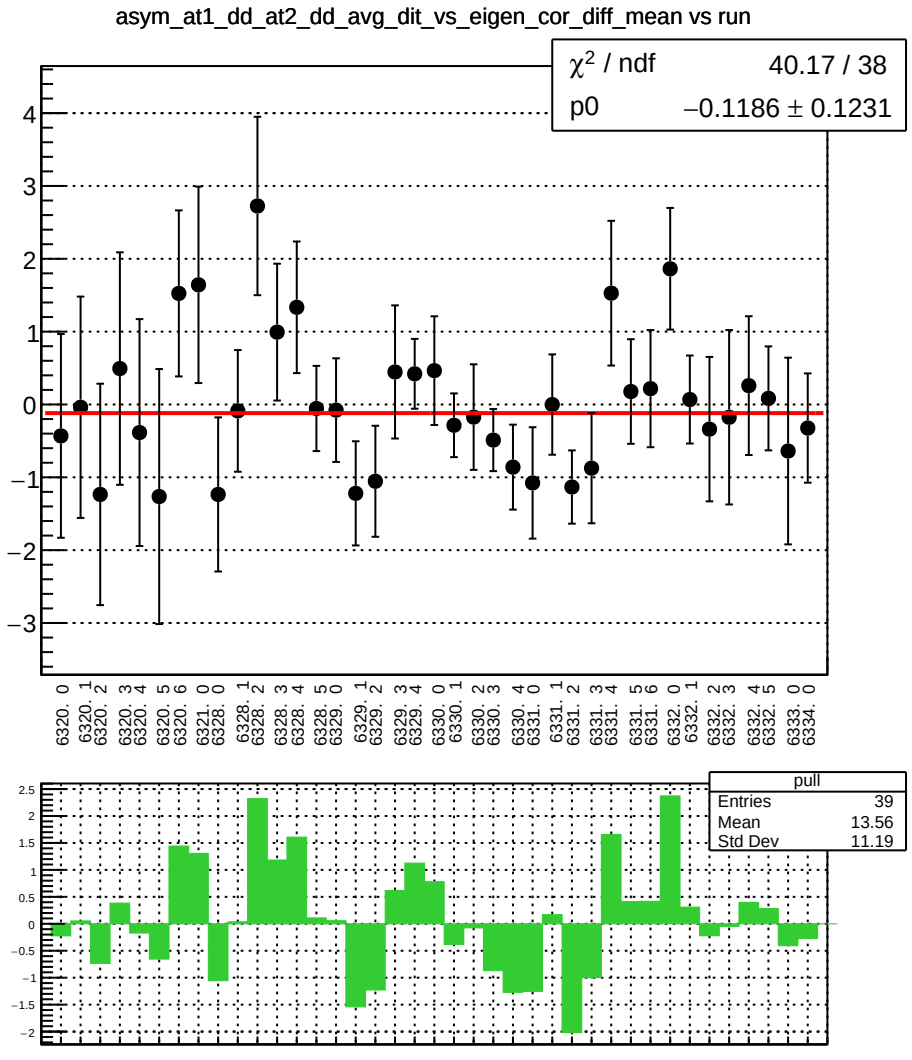

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.66 / 38
p0 −1.549e−15 ± 1.066e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.44
Std Dev 0
3
2
1
0
−1
−2

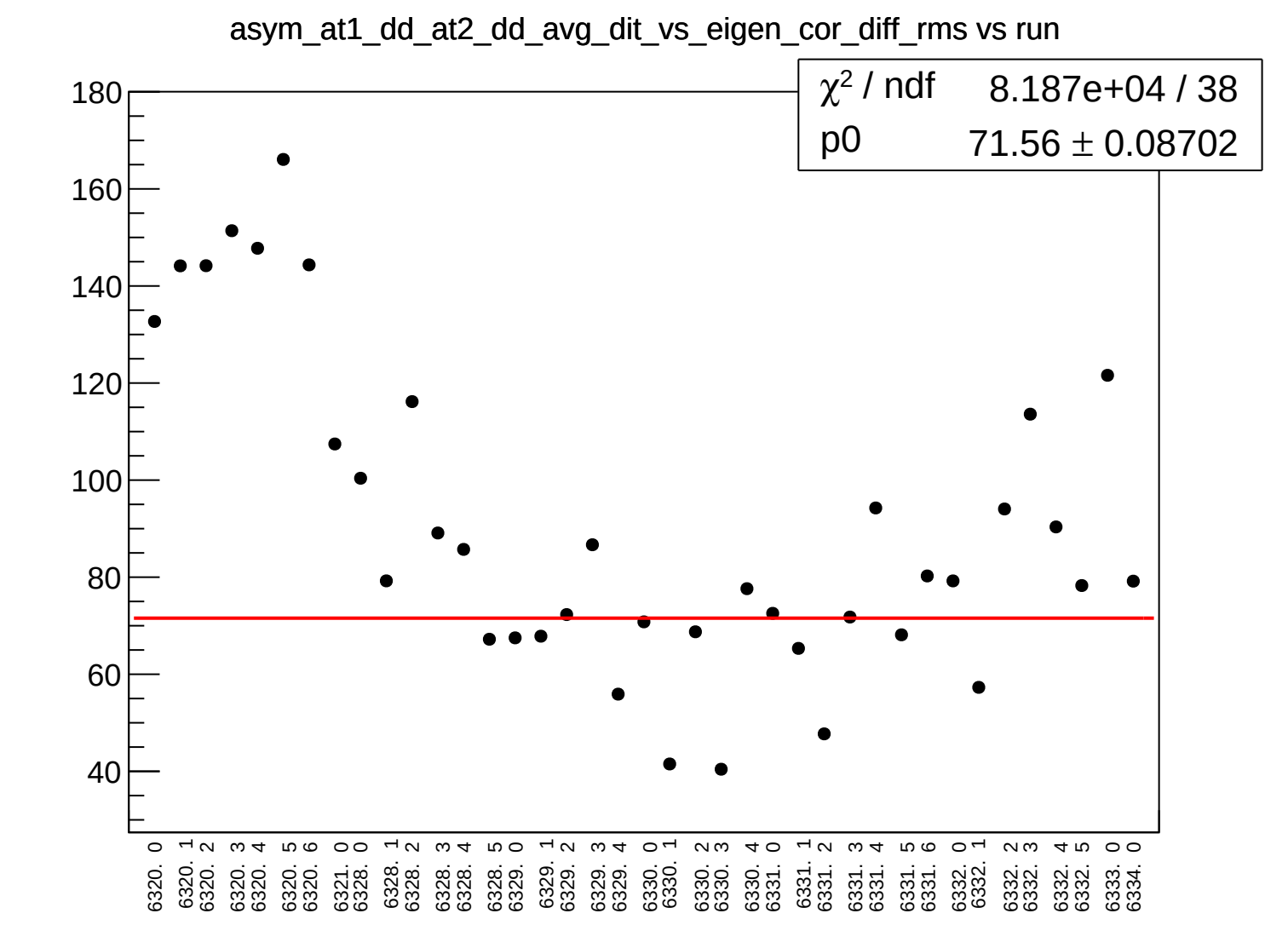

pull1D
Entries 39
Mean −0.06095
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

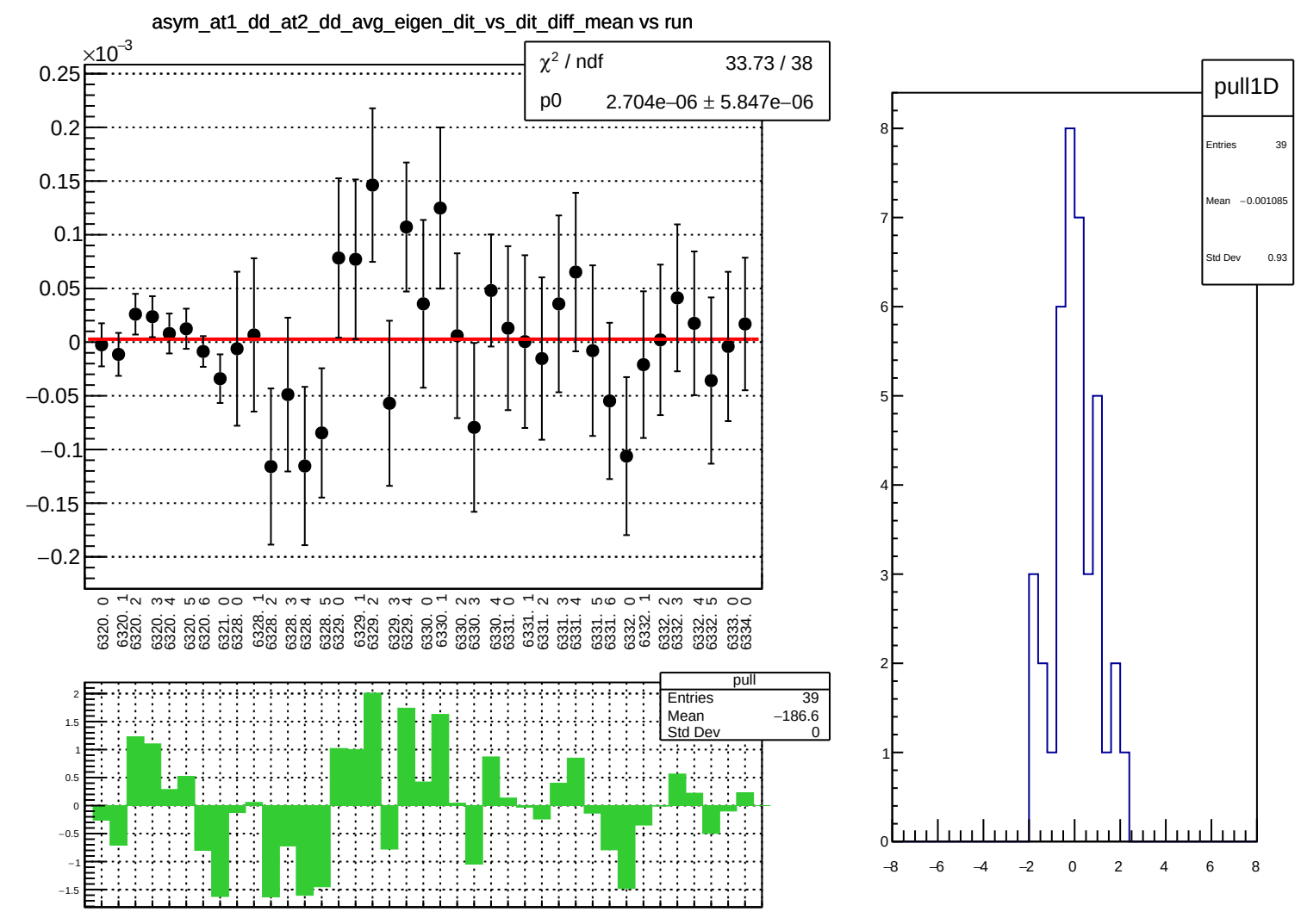

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.29e+05 / 38
p0 3.609e−11 ± 7.54e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19
pull1D
Entries 39
Mean 0.09284
Std Dev 1.011


asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.187e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19
pull1D
Entries 39
Mean 0.09284
Std Dev 1.011


asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.187e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.73 / 38
p0 2.704e−06 ± 5.847e−06
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
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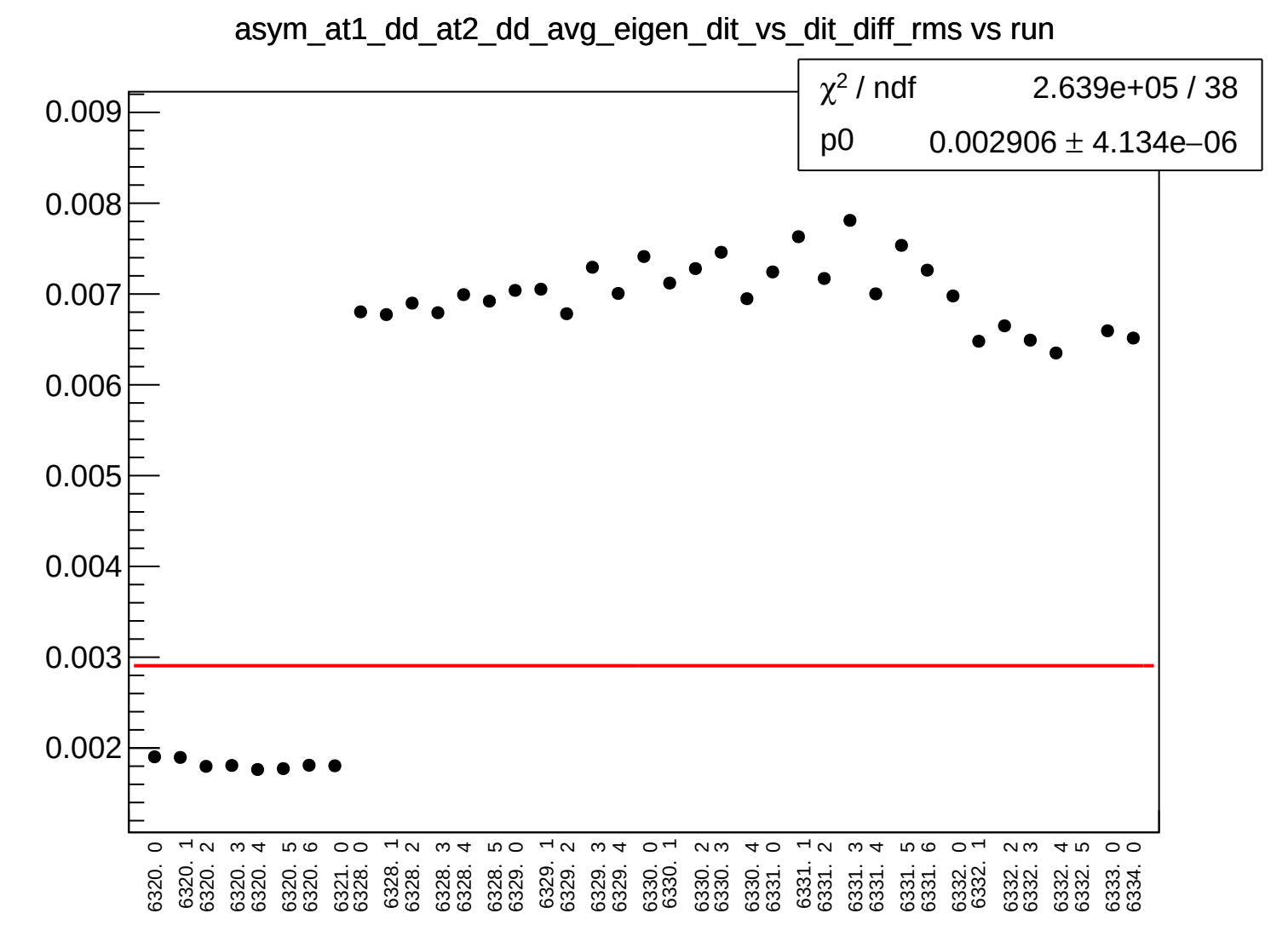
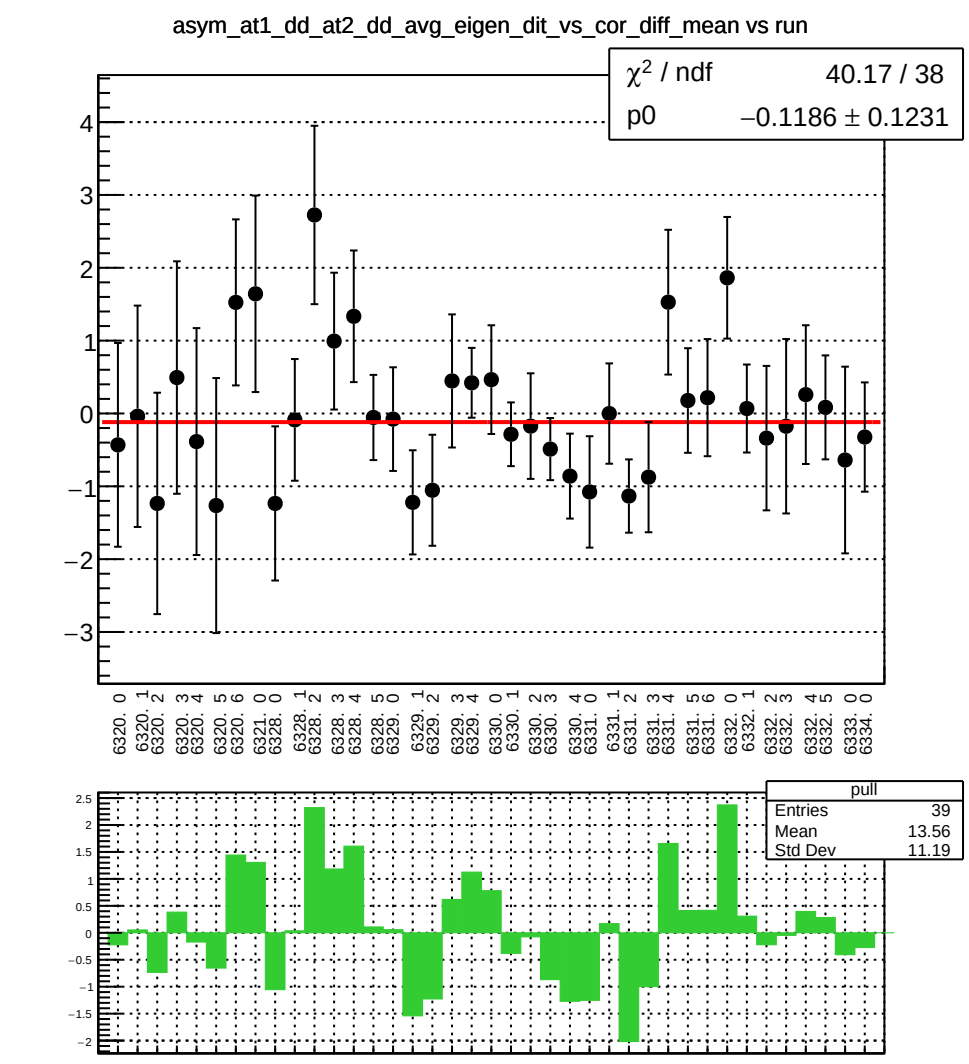
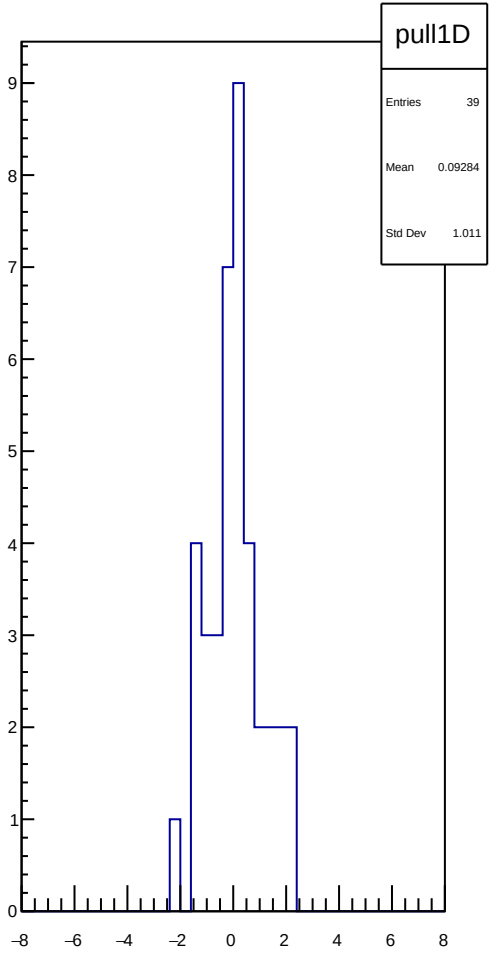
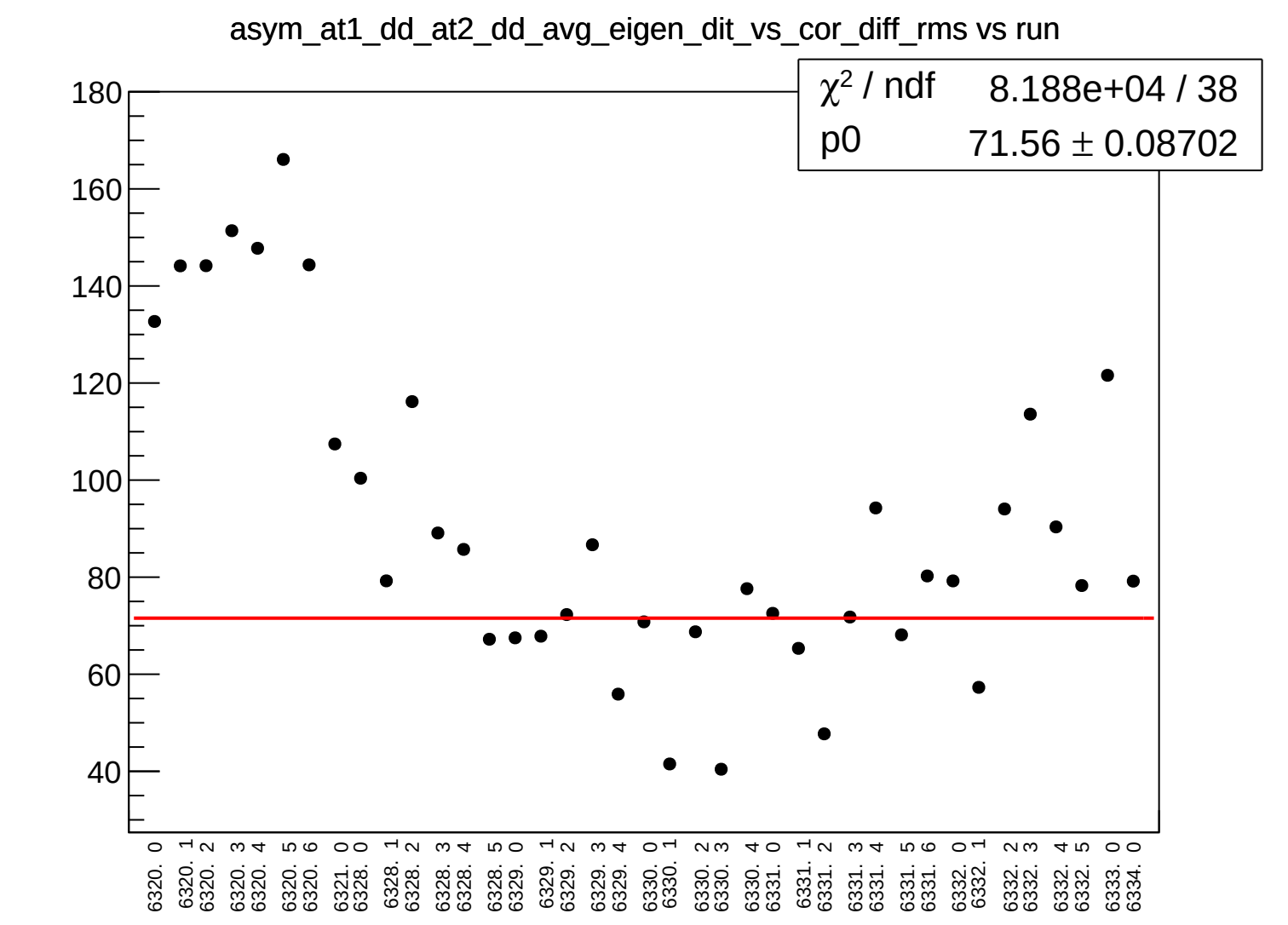
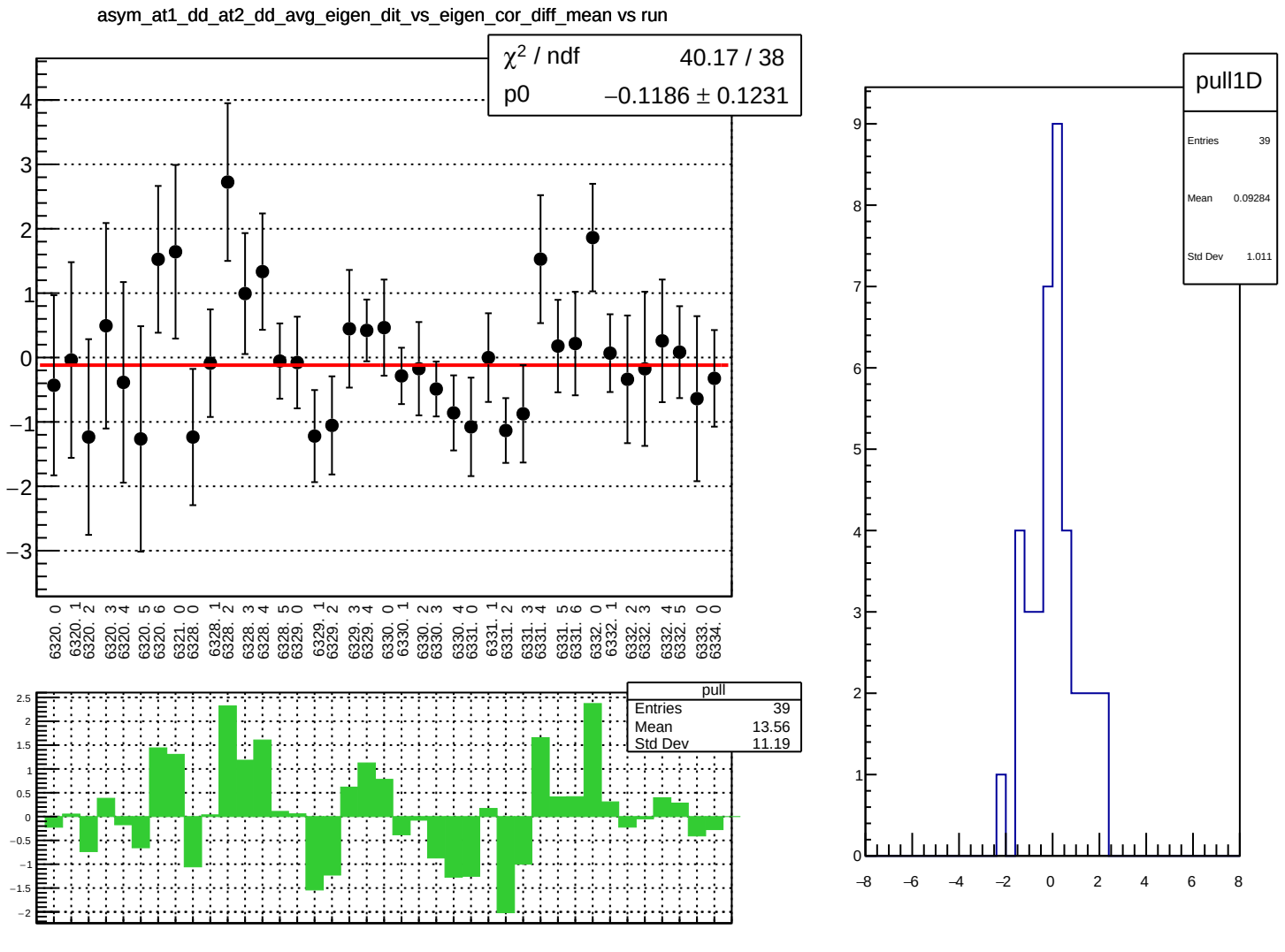
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −186.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.001085
Std Dev 0.93
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

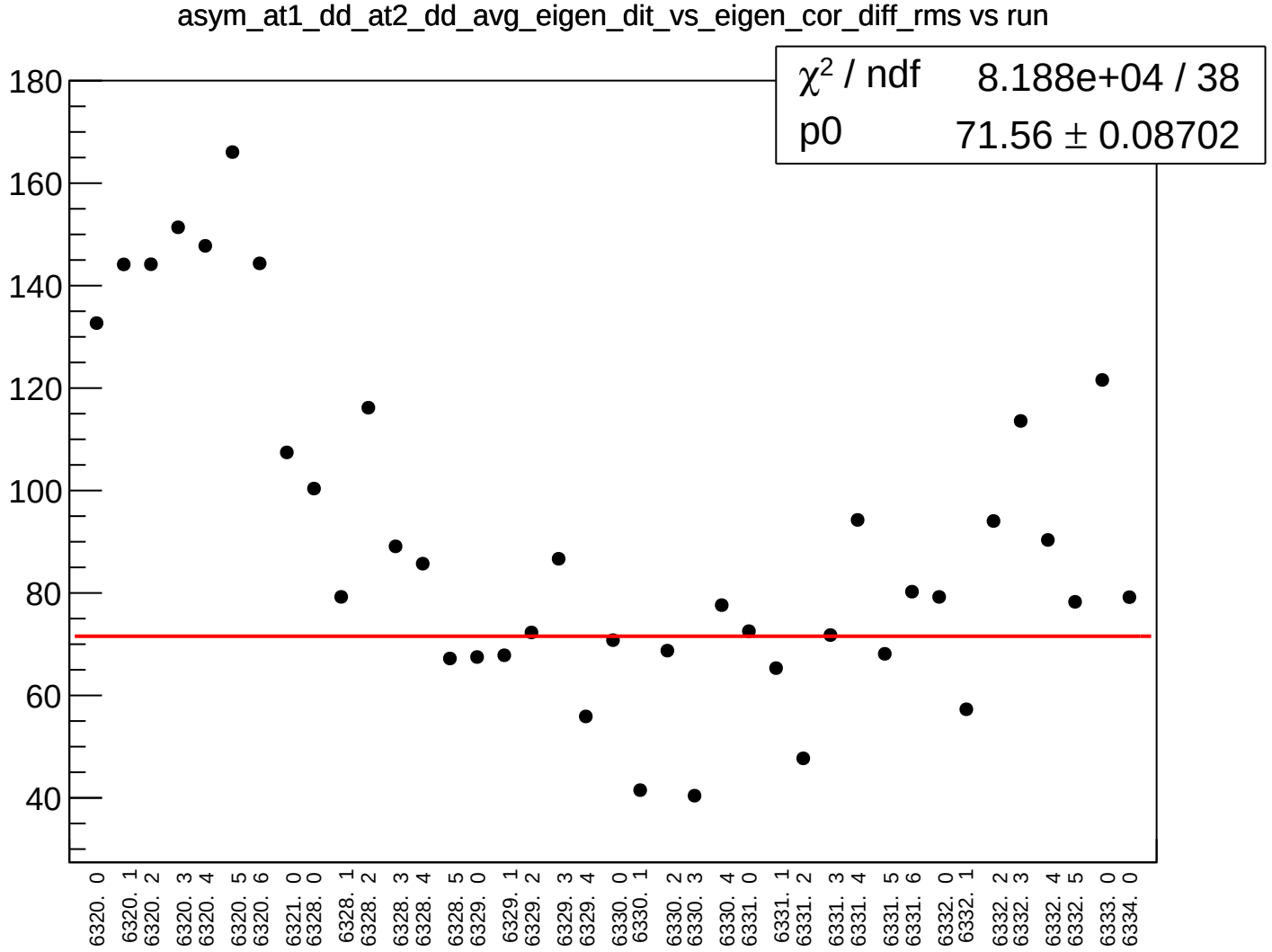

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.639e+05 / 38
p0 0.002906 ± 4.134e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

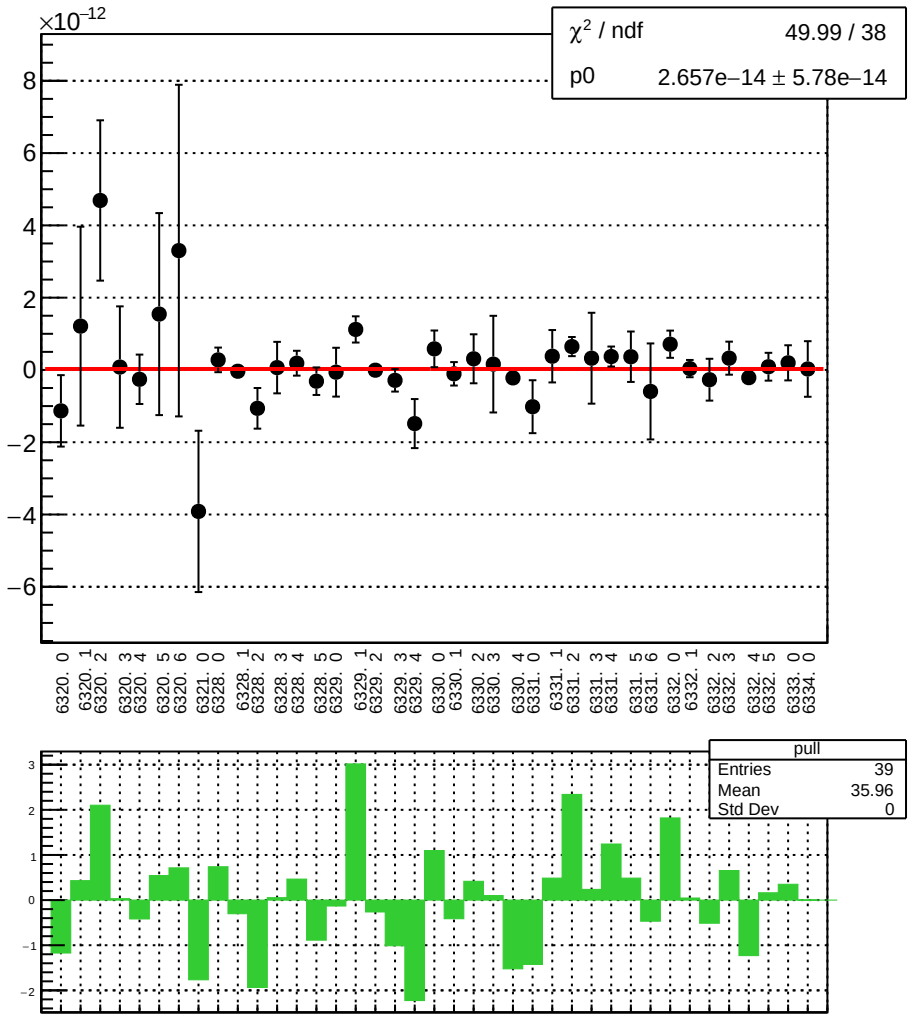

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
pull
Entries 39
Mean 13.56
Std Dev 11.19

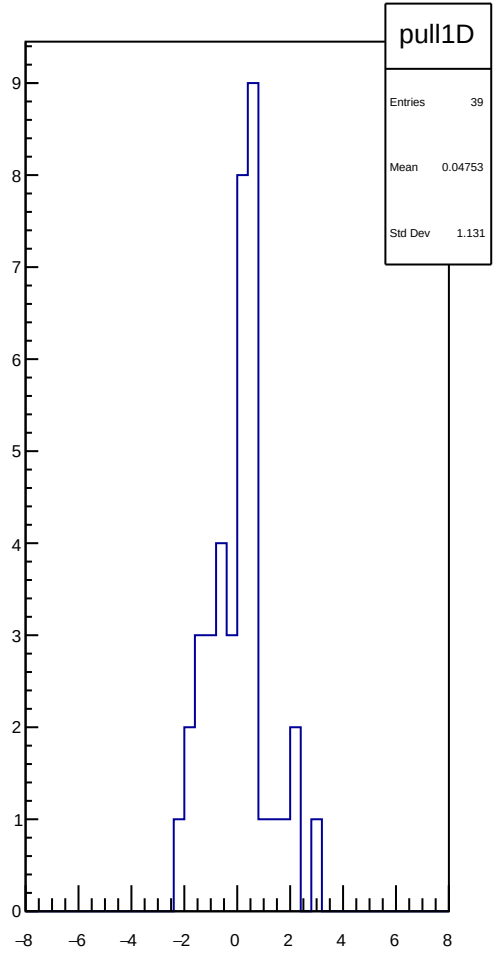

pull1D
Entries 39
Mean 0.09284
Std Dev 1.011

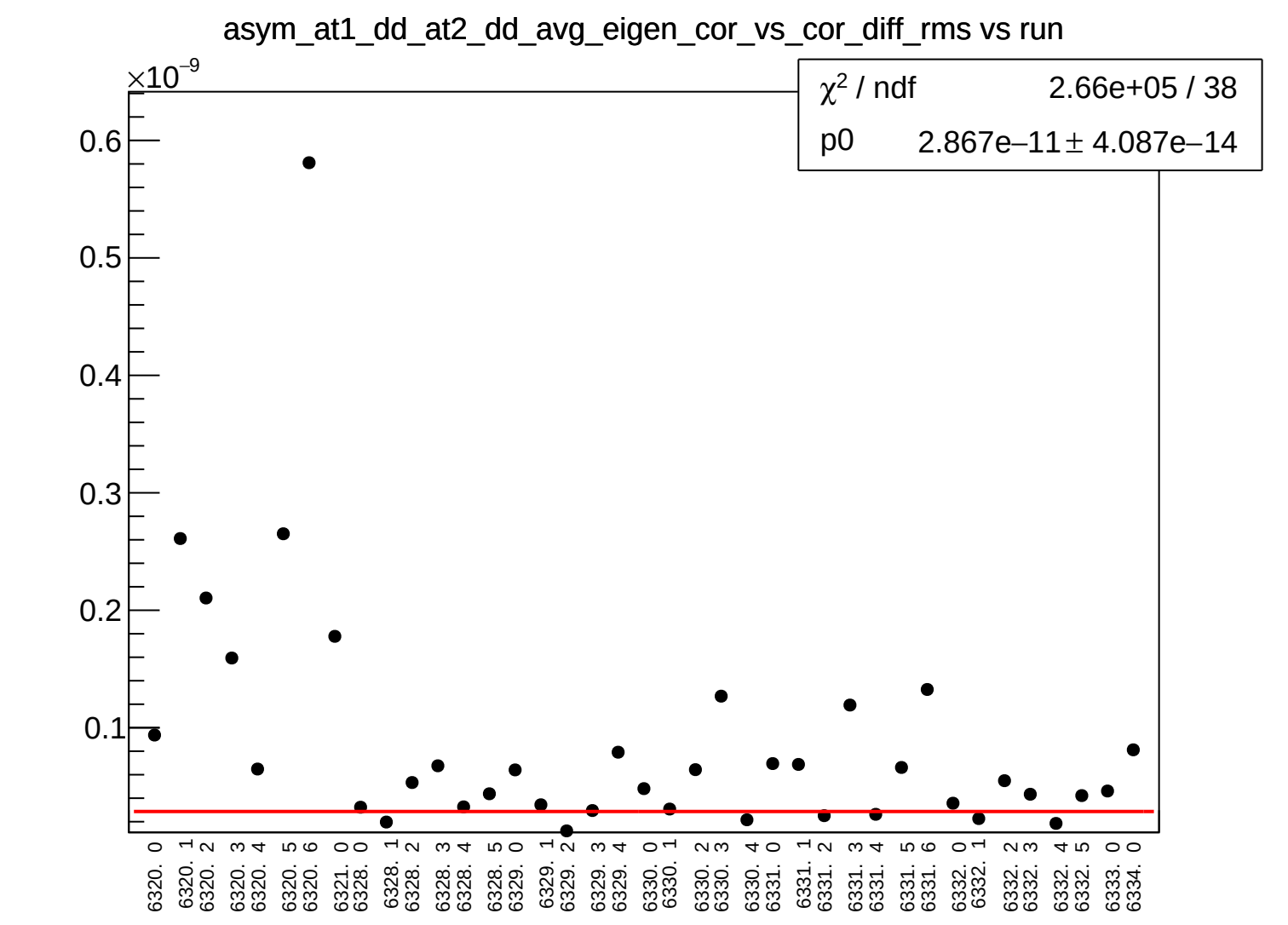

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.188e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

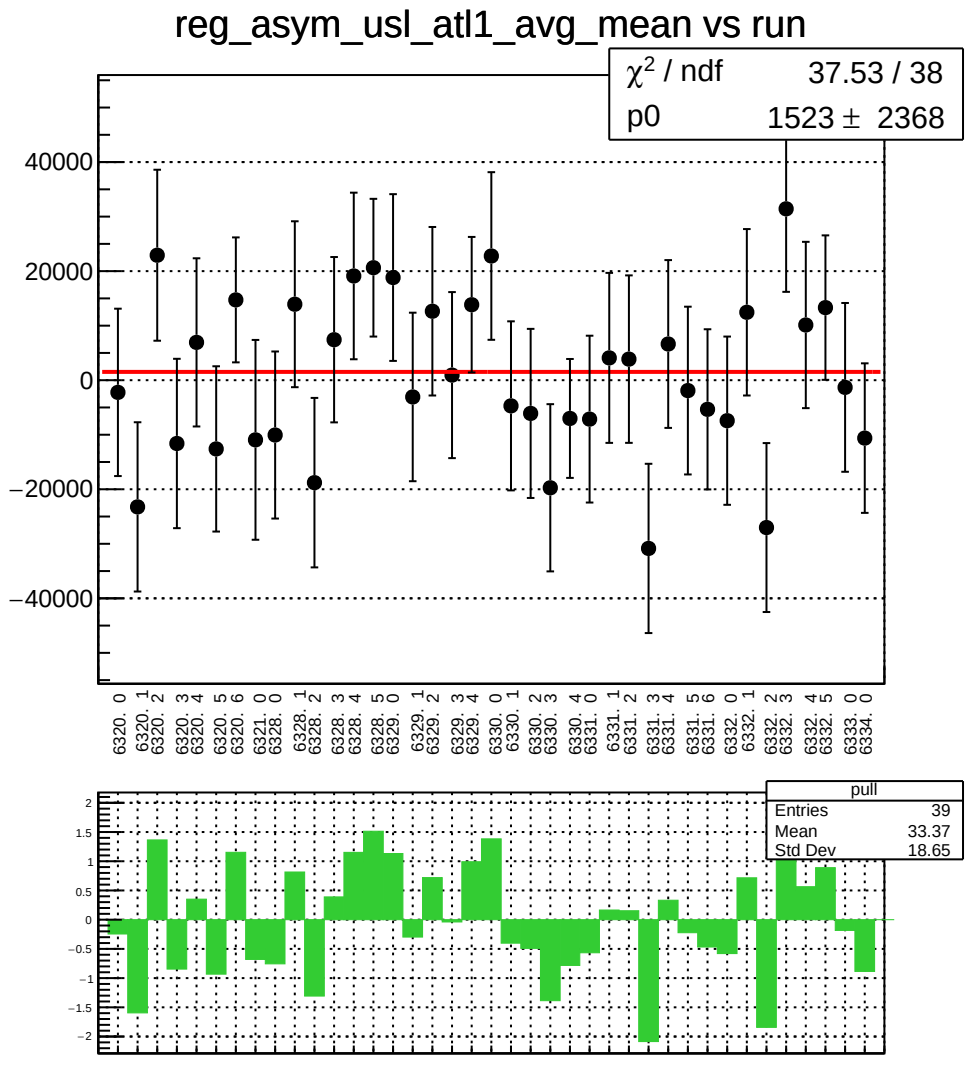

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.17 / 38
p0 −0.1186 ± 0.1231
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.56
Std Dev 11.19
pull1D
Entries 39
Mean 0.09284
Std Dev 1.011

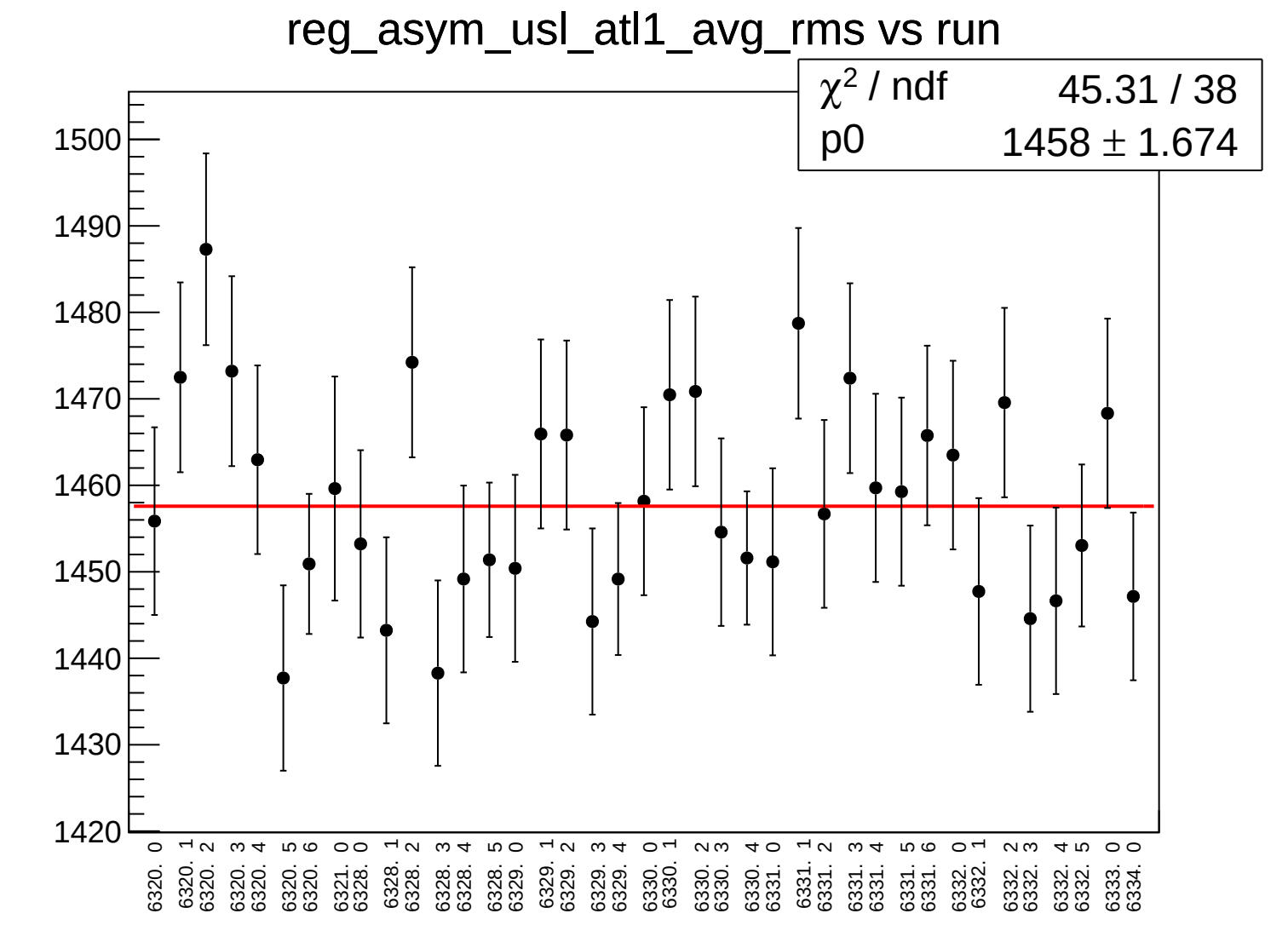

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.188e+04 / 38
p0 71.56 ± 0.08702
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

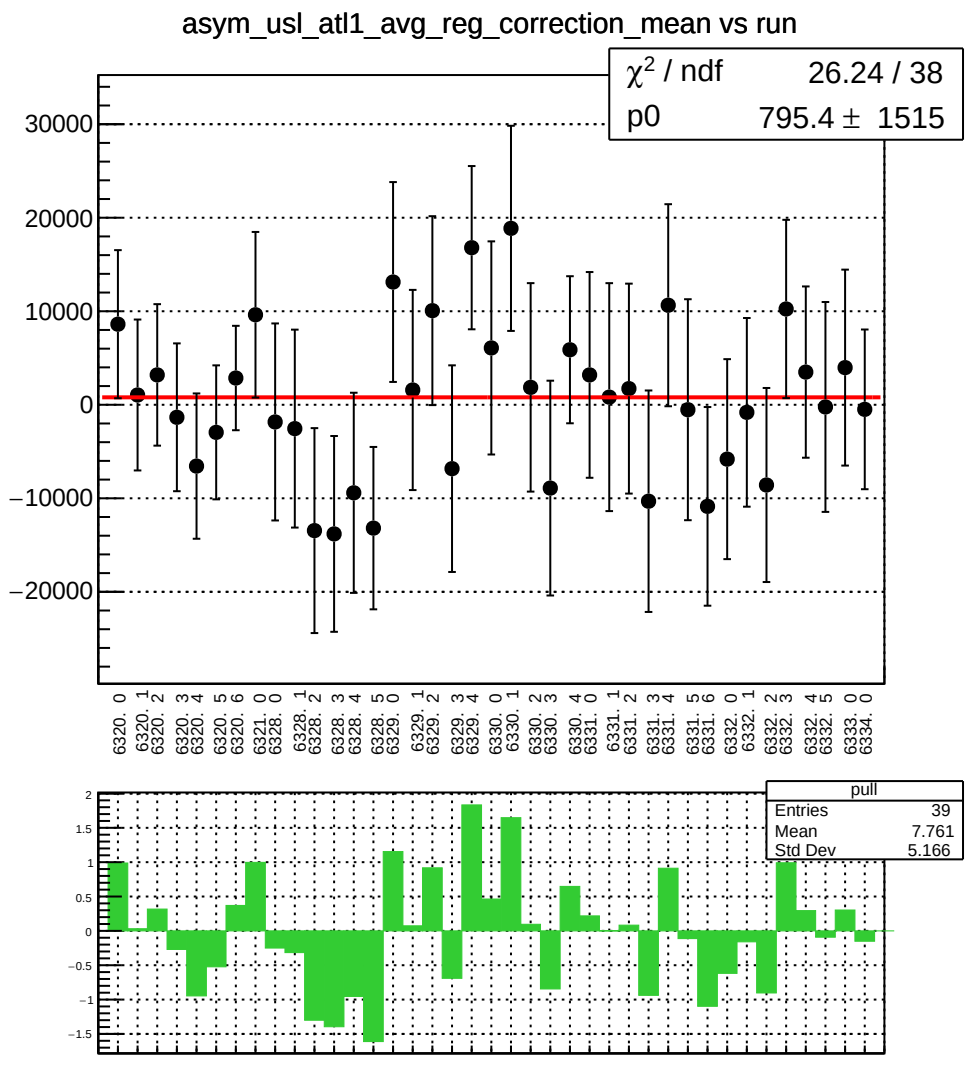

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.99 / 38
p0 2.657e−14 ± 5.78e−14
pull
Entries 39
Mean 35.96
Std Dev 0

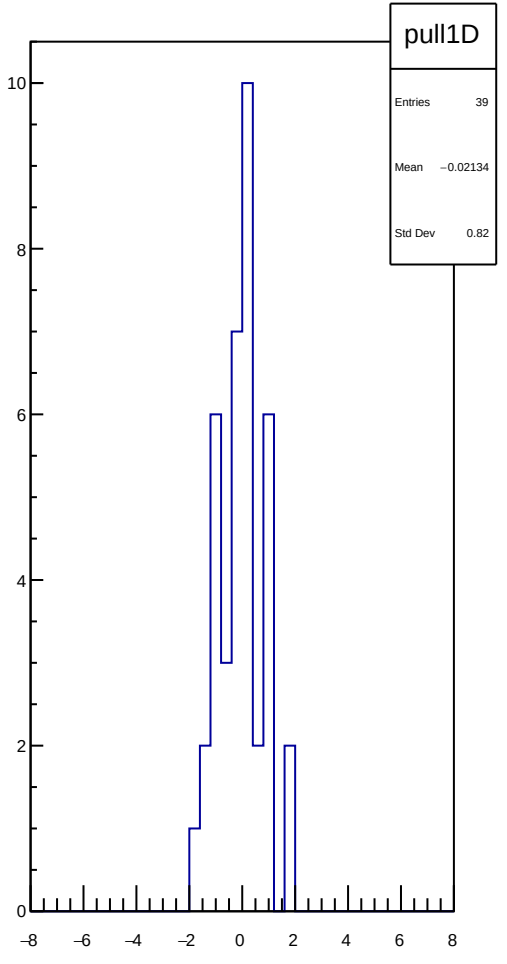

pull1D
Entries 39
Mean 0.04753
Std Dev 1.131

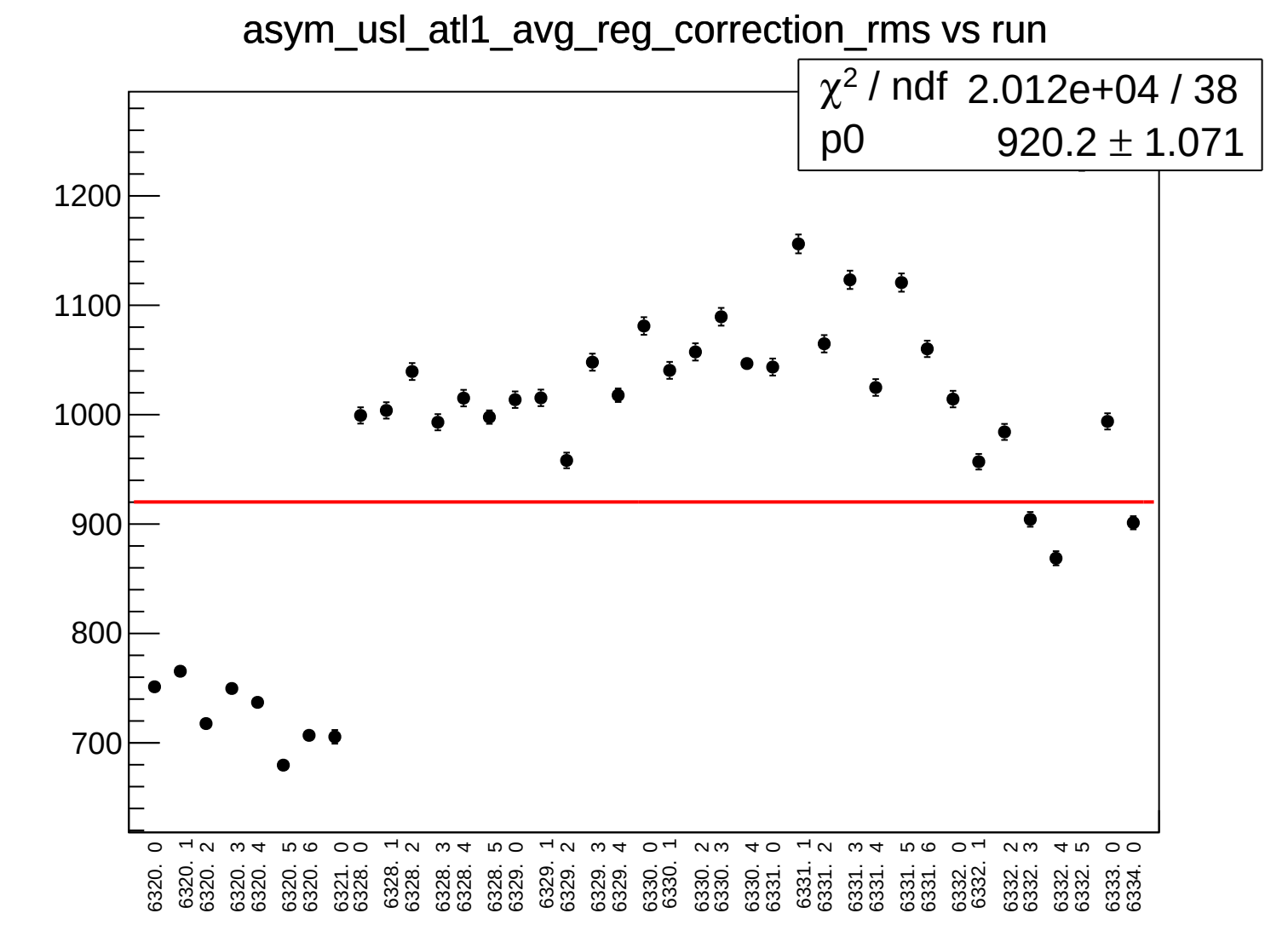

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.66e+05 / 38
p0 2.867e−11 ± 4.087e−14
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

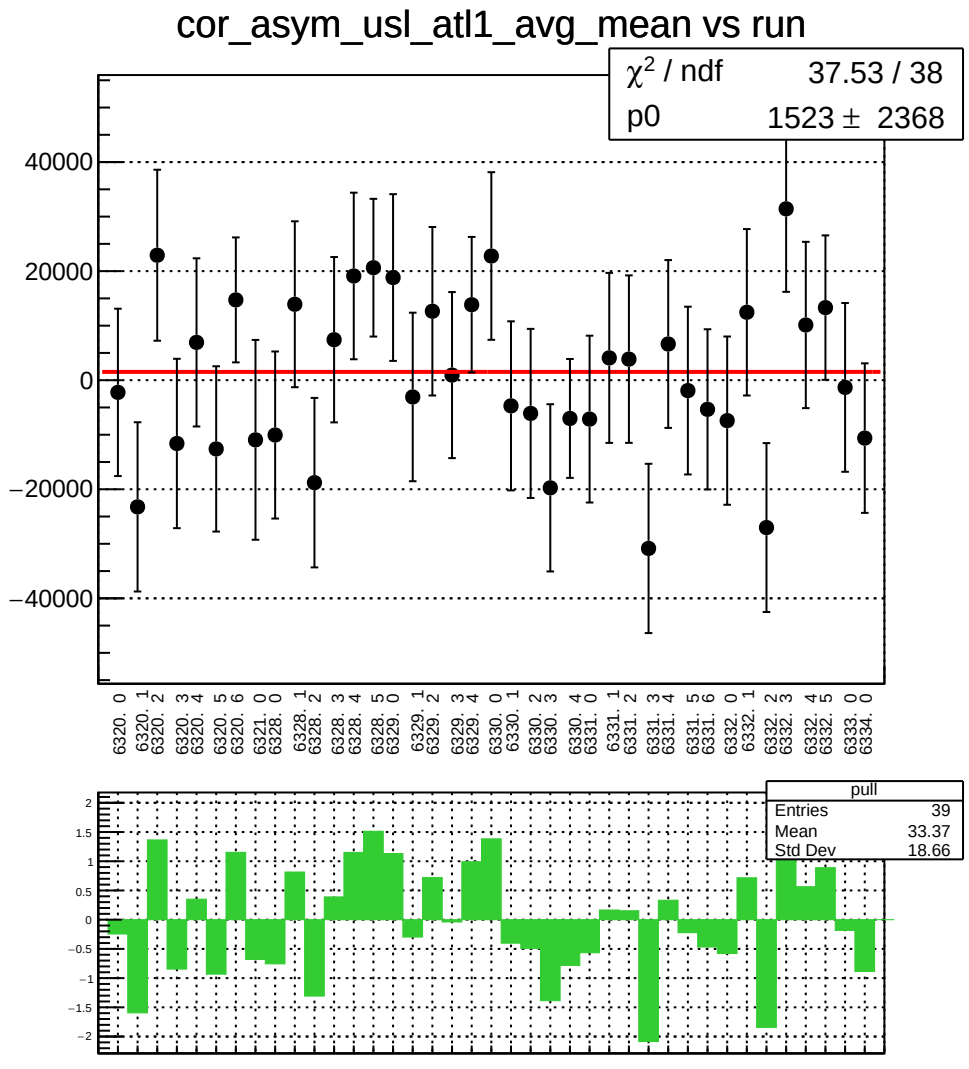

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 37.53 / 38
p0 1523 ± 2368
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.37
Std Dev 18.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02163
Std Dev 0.9807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

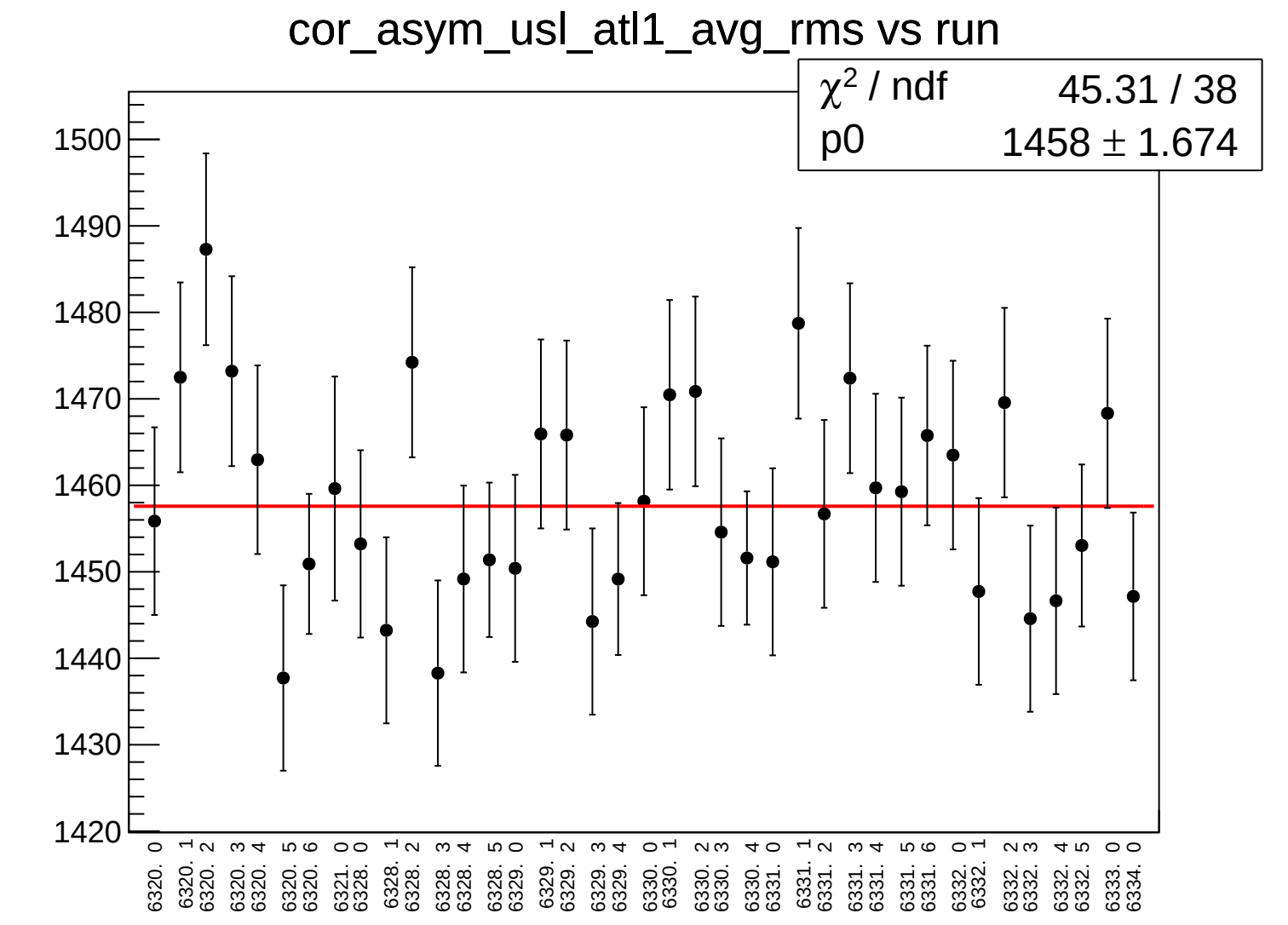

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 45.31 / 38
p0 1458 ± 1.674
1500
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

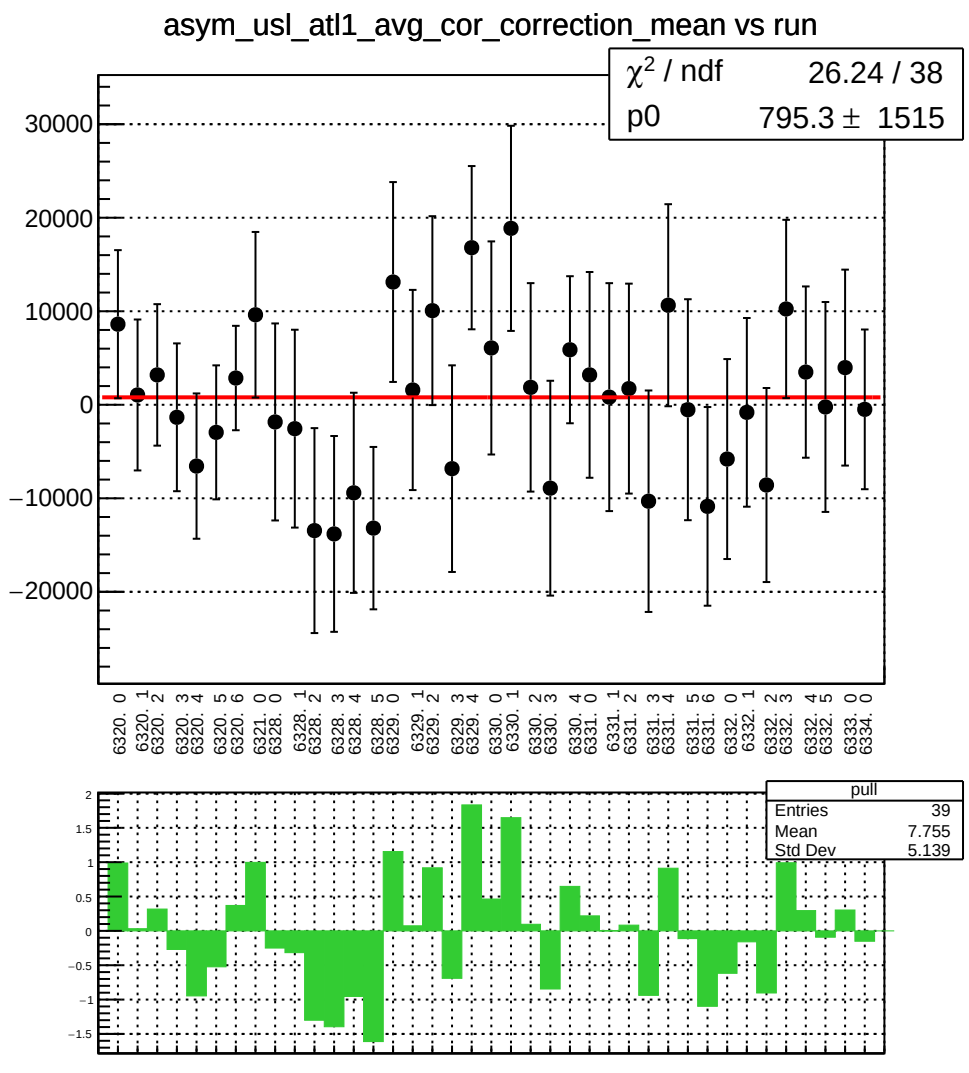

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 26.24 / 38
p0 795.4 ± 1515
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.761
Std Dev 5.166
2
1.5
1
0.5
0
−0.5
−1
−1.5

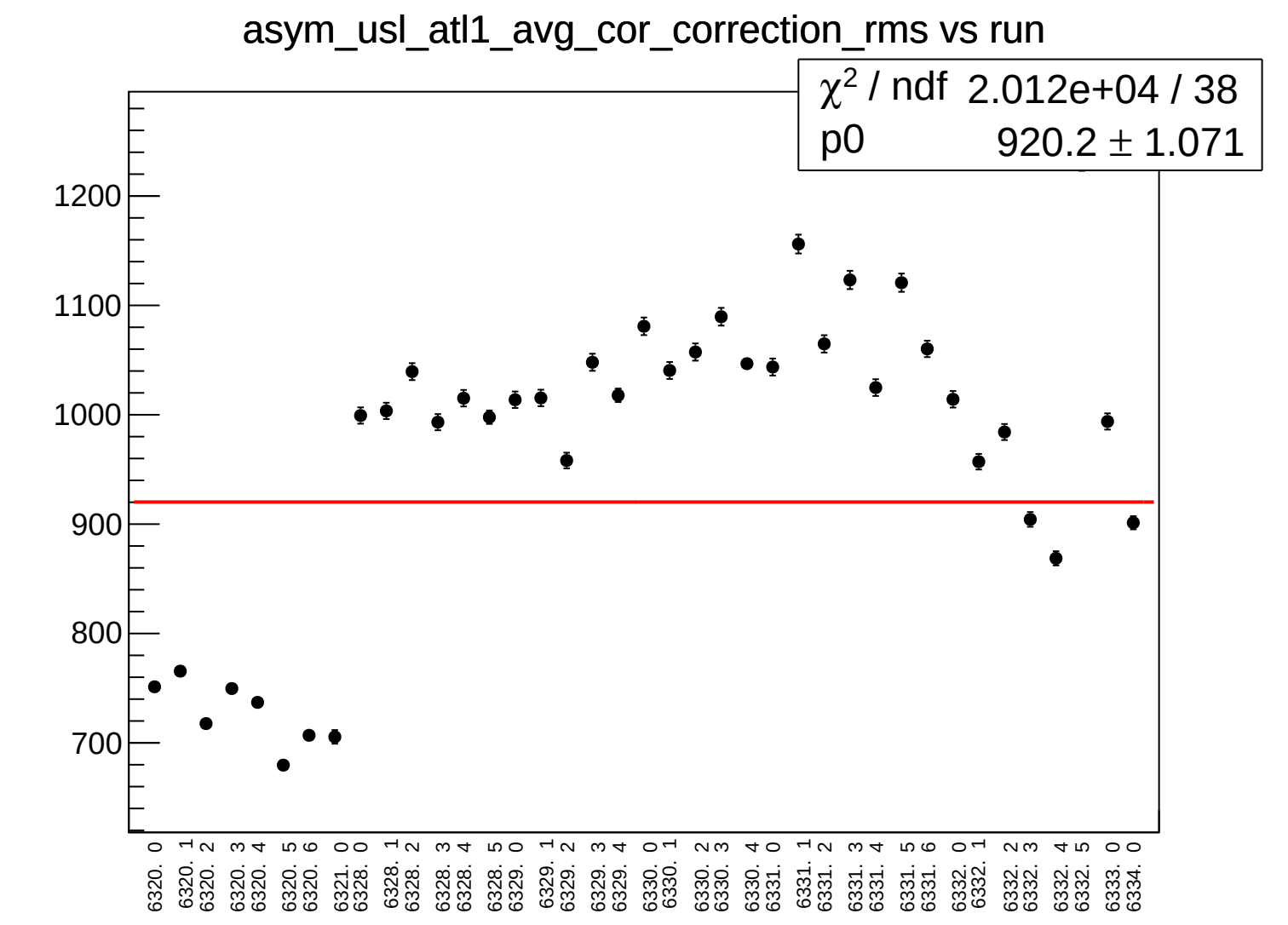

pull1D
Entries 39
Mean −0.02134
Std Dev 0.82
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

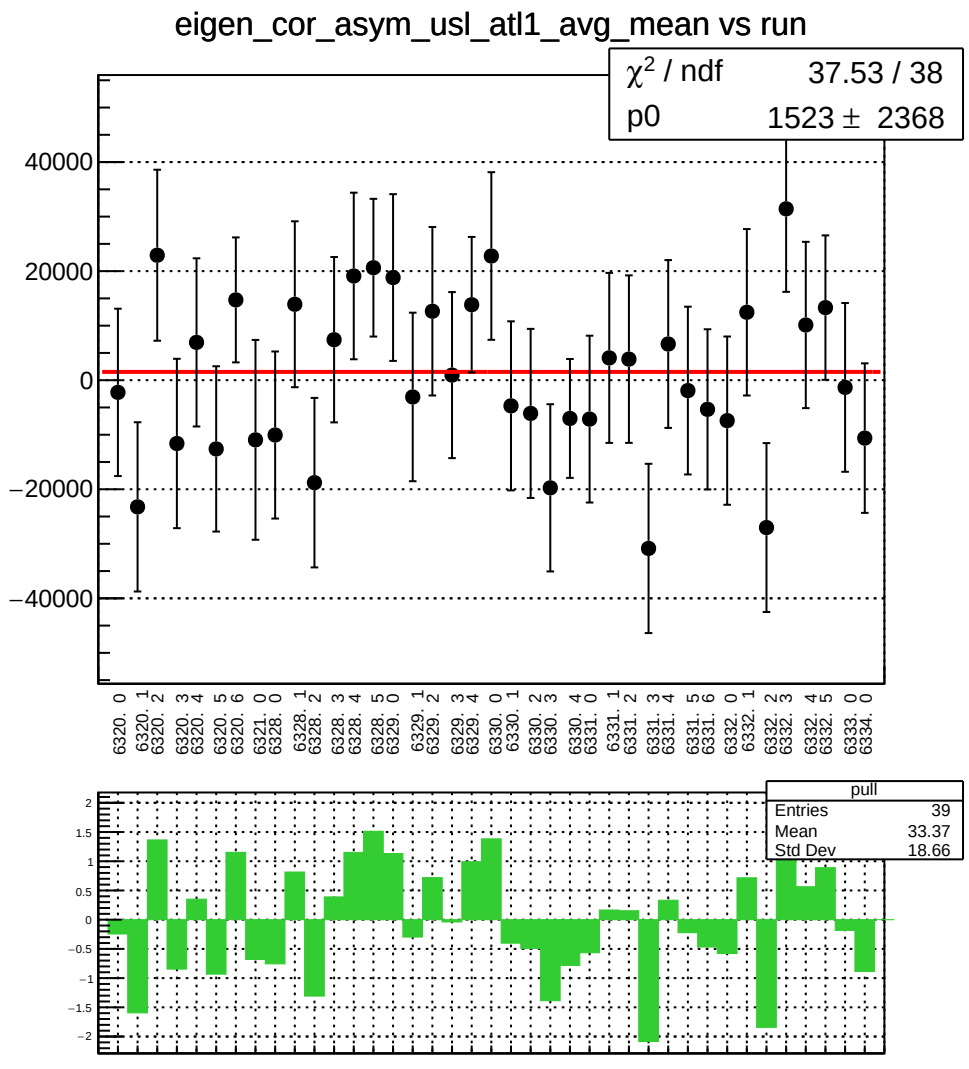

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.012e+04 / 38
p0 920.2 ± 1.071
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

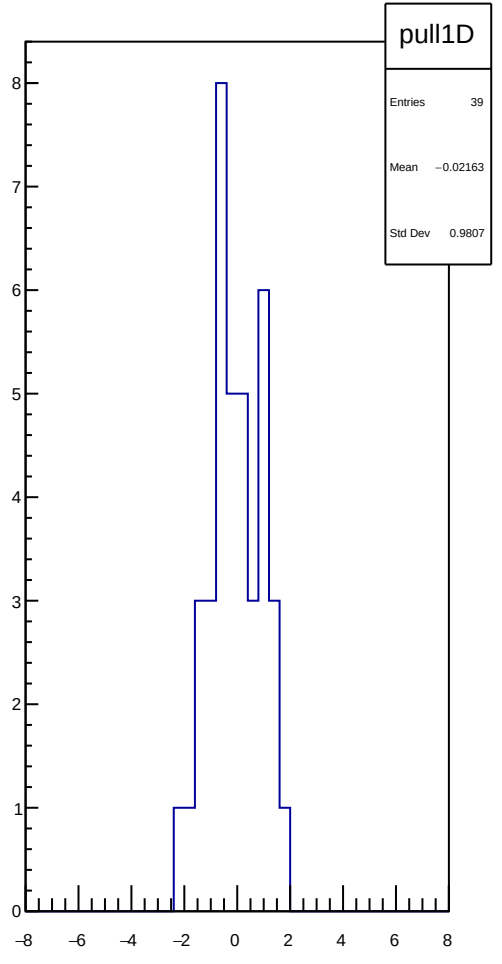

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 37.53 / 38
p0 1523 ± 2368
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.37
Std Dev 18.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02163
Std Dev 0.9807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

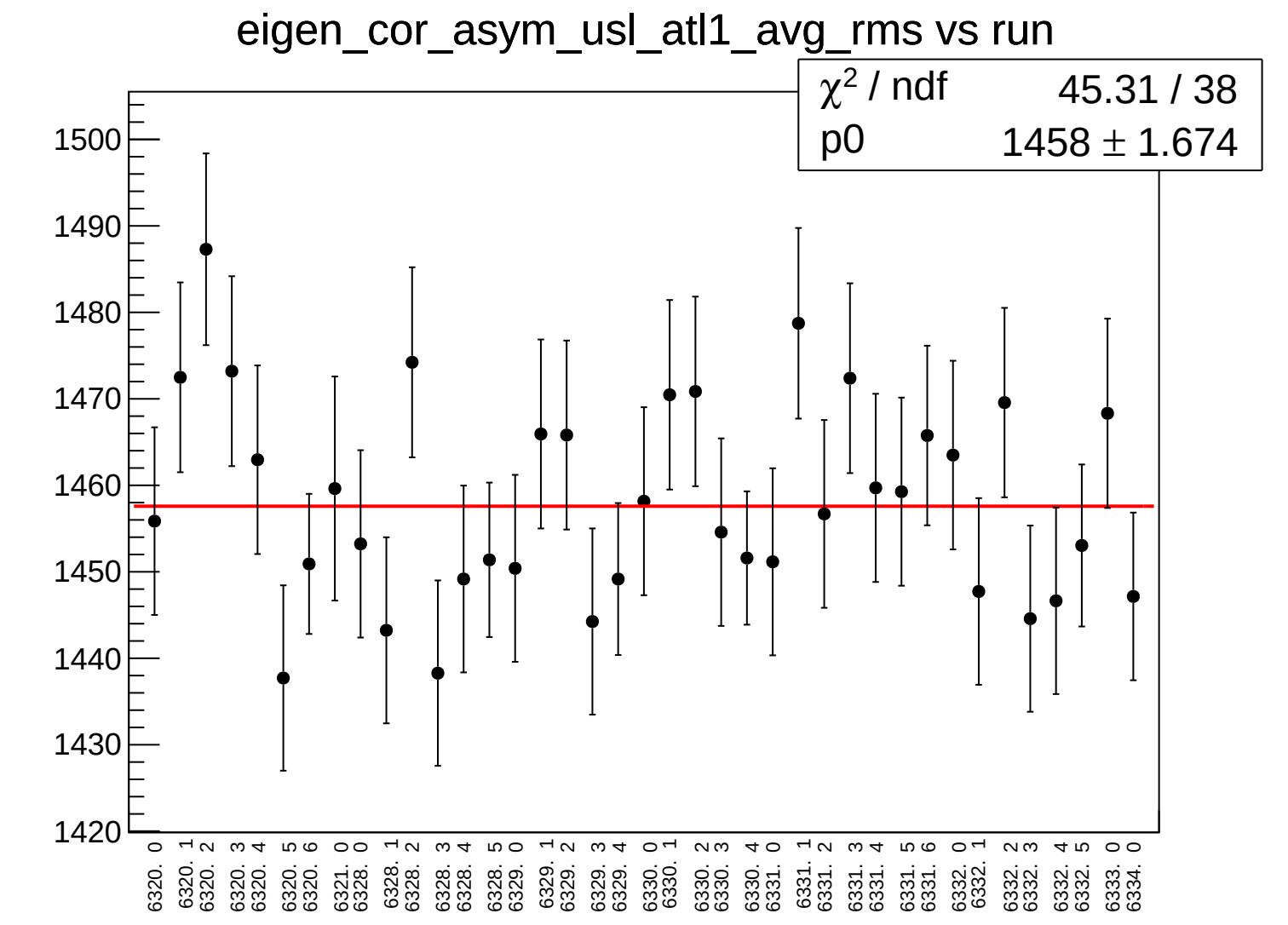

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 45.31 / 38
p0 1458 ± 1.674
1500
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

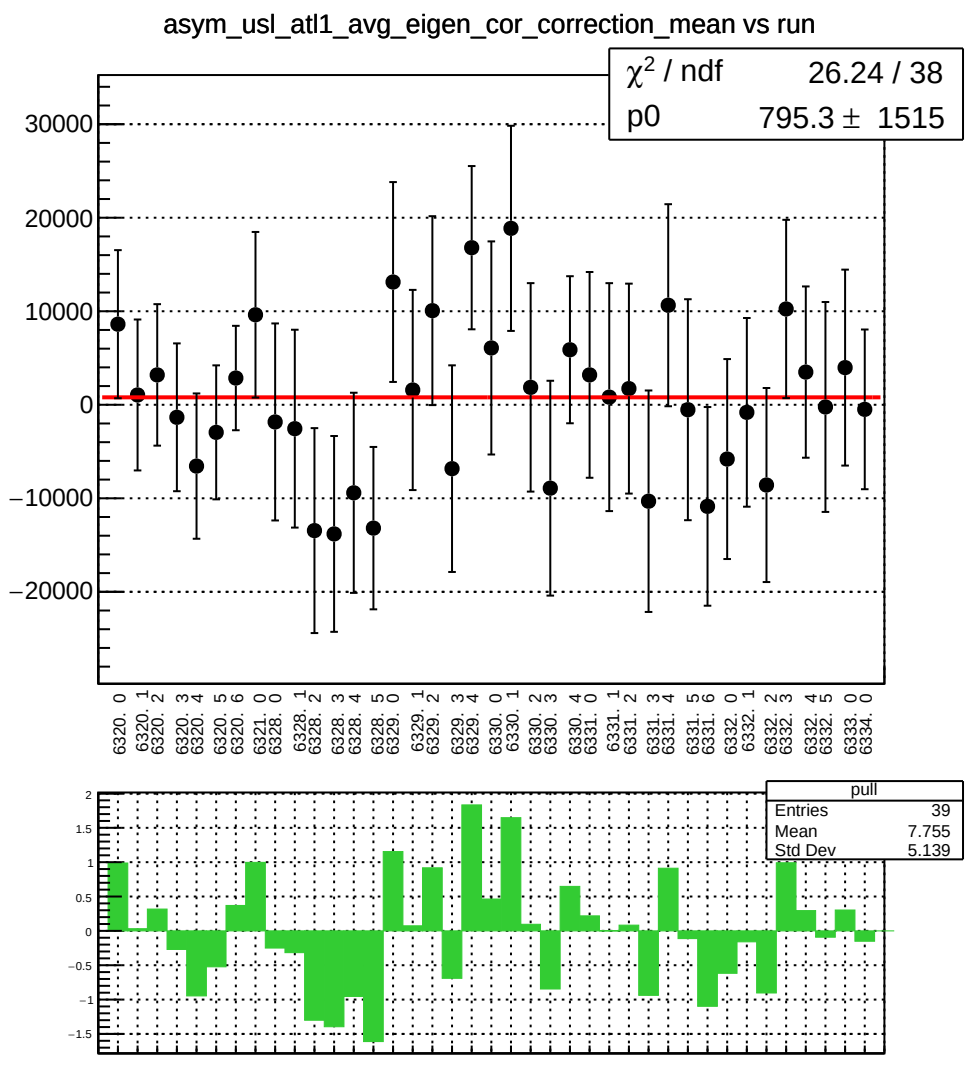

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 26.24 / 38
p0 795.3 ± 1515
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.755
Std Dev 5.139
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02135
Std Dev 0.82
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

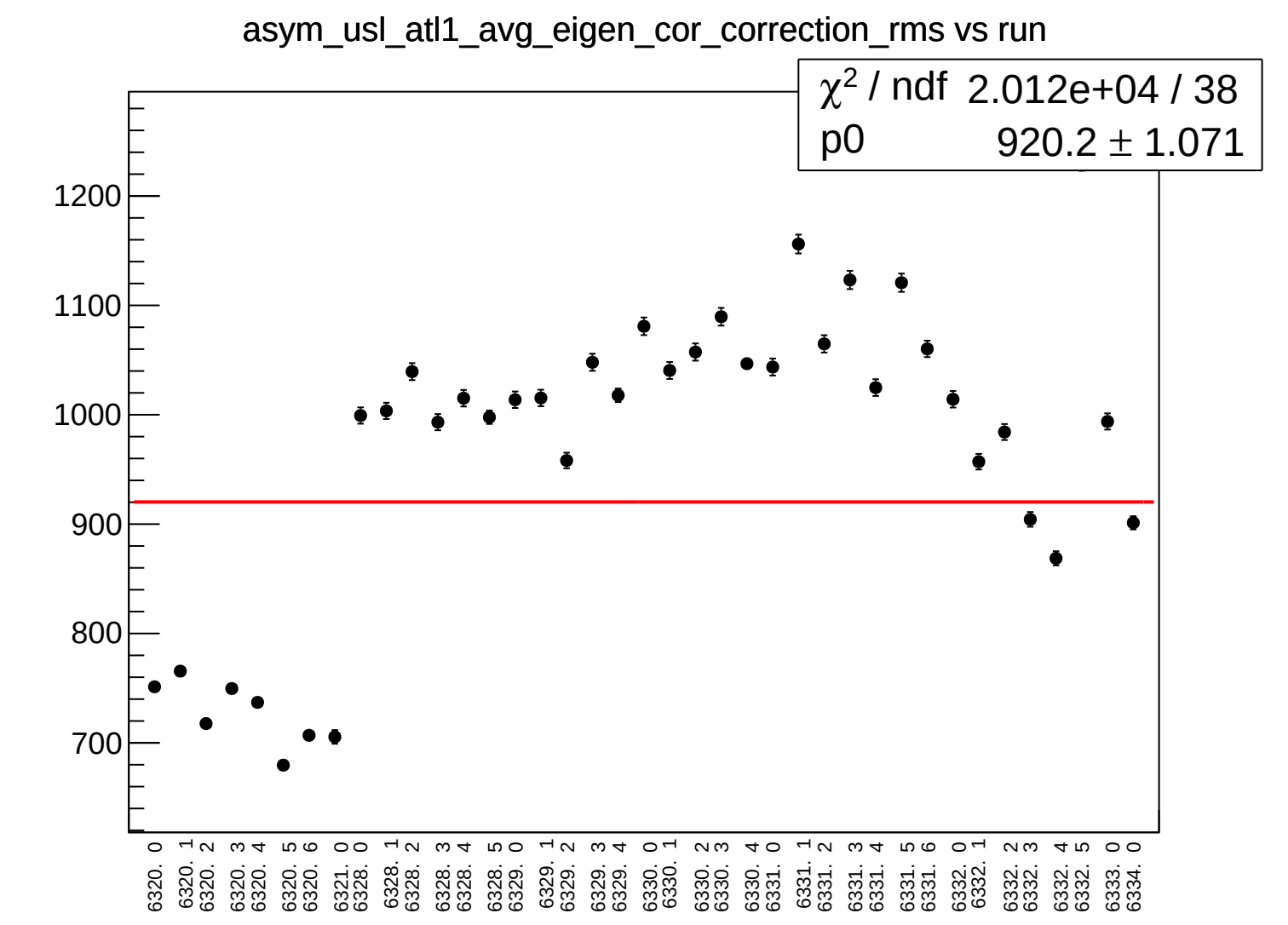

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.012e+04 / 38
p0 920.2 ± 1.071
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

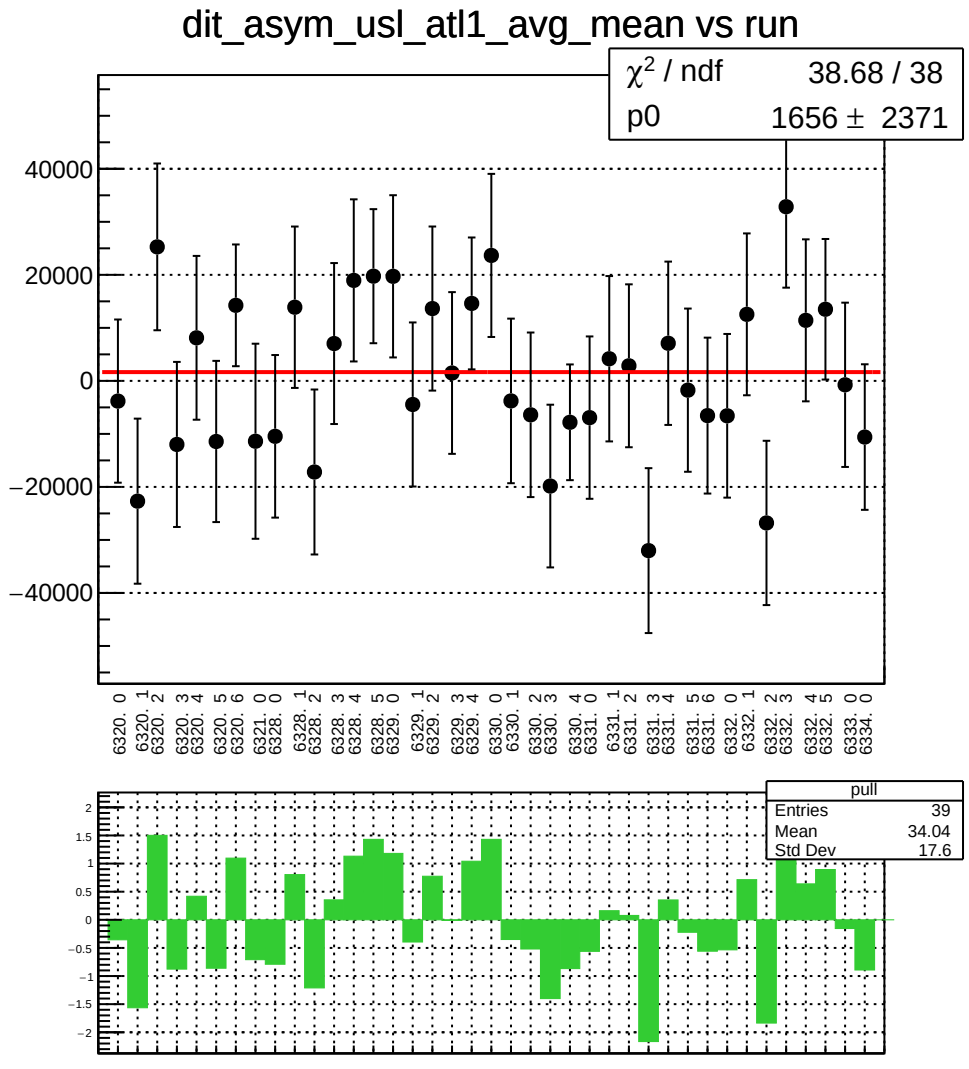

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 37.53 / 38
p0 1523 ± 2368
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.37
Std Dev 18.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

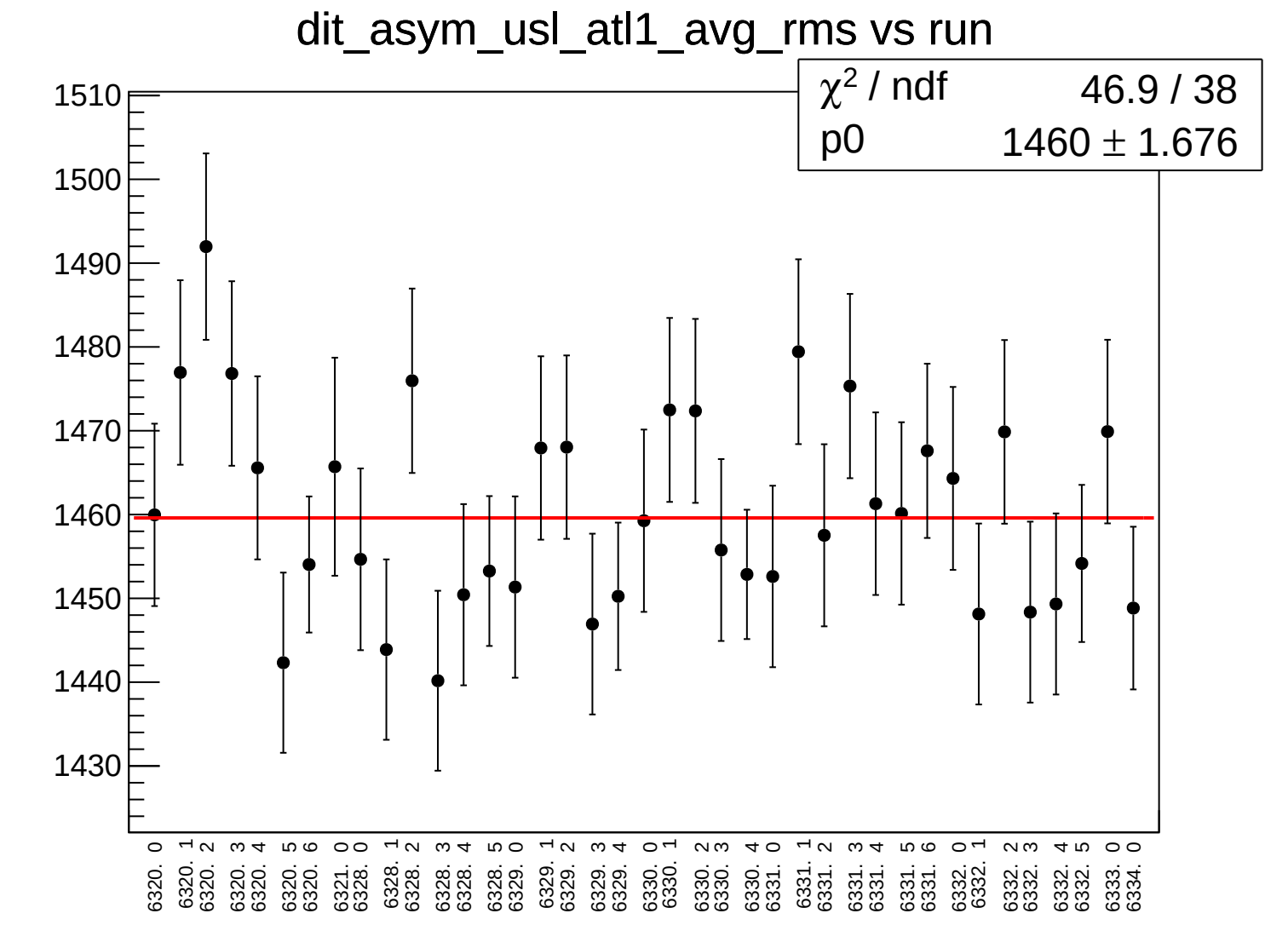

pull1D
Entries 39
Mean −0.02163
Std Dev 0.9807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

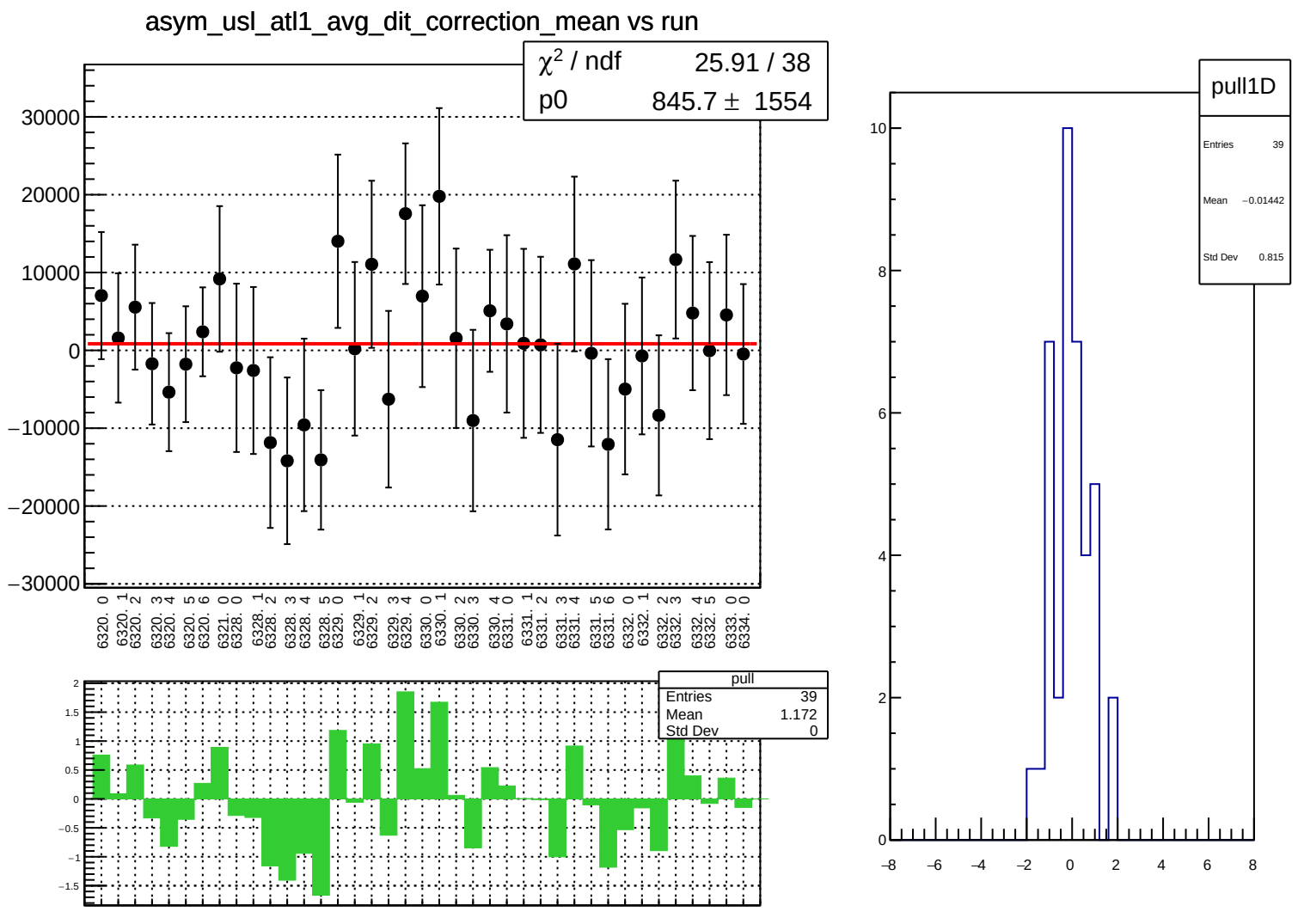

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 45.31 / 38
p0 1458 ± 1.674
1500
1490
1480
1470
1460
1450
1440
1430
1420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

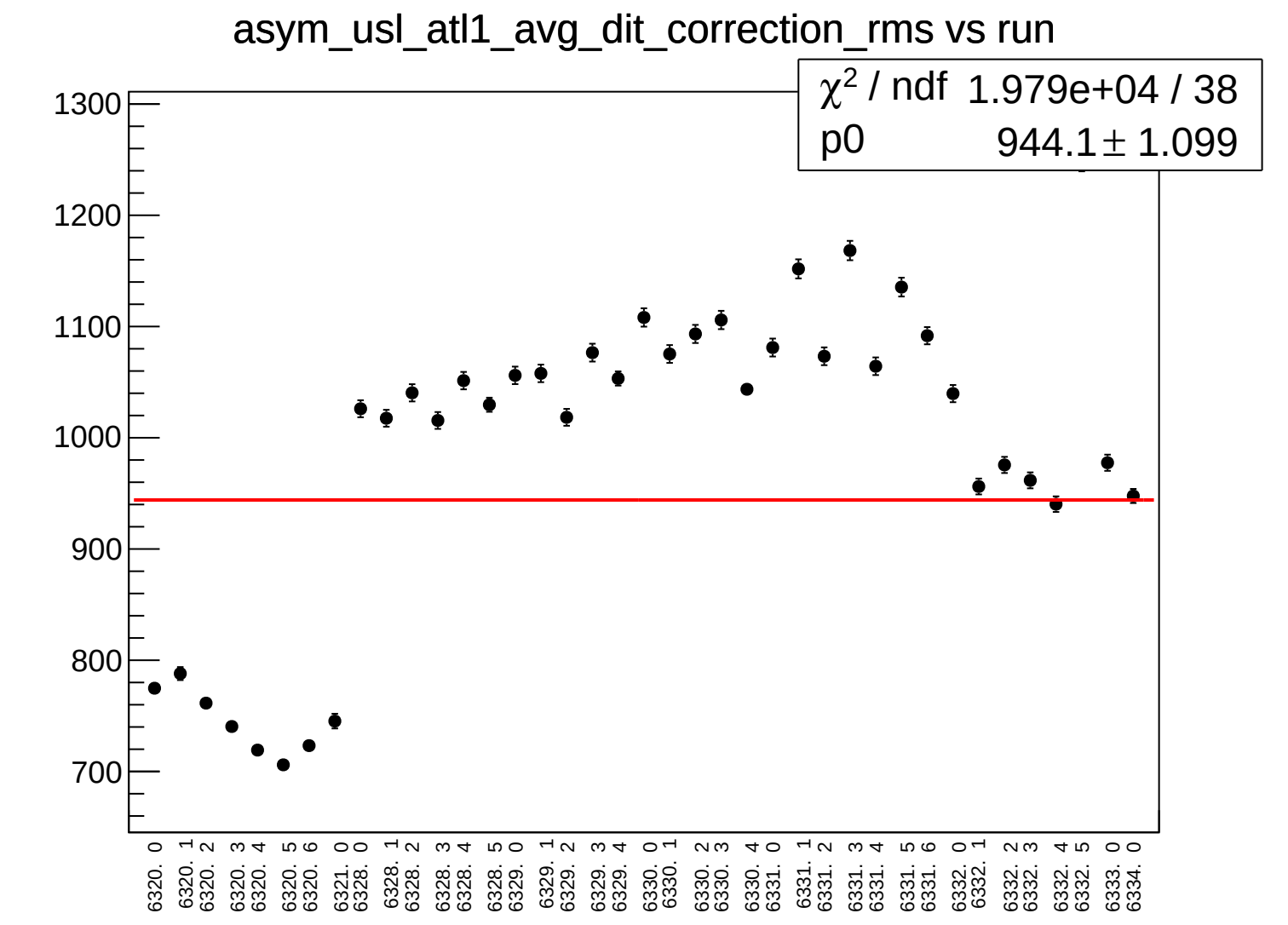

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 26.24 / 38
p0 795.3 ± 1515
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.755
Std Dev 5.139
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02135
Std Dev 0.82
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

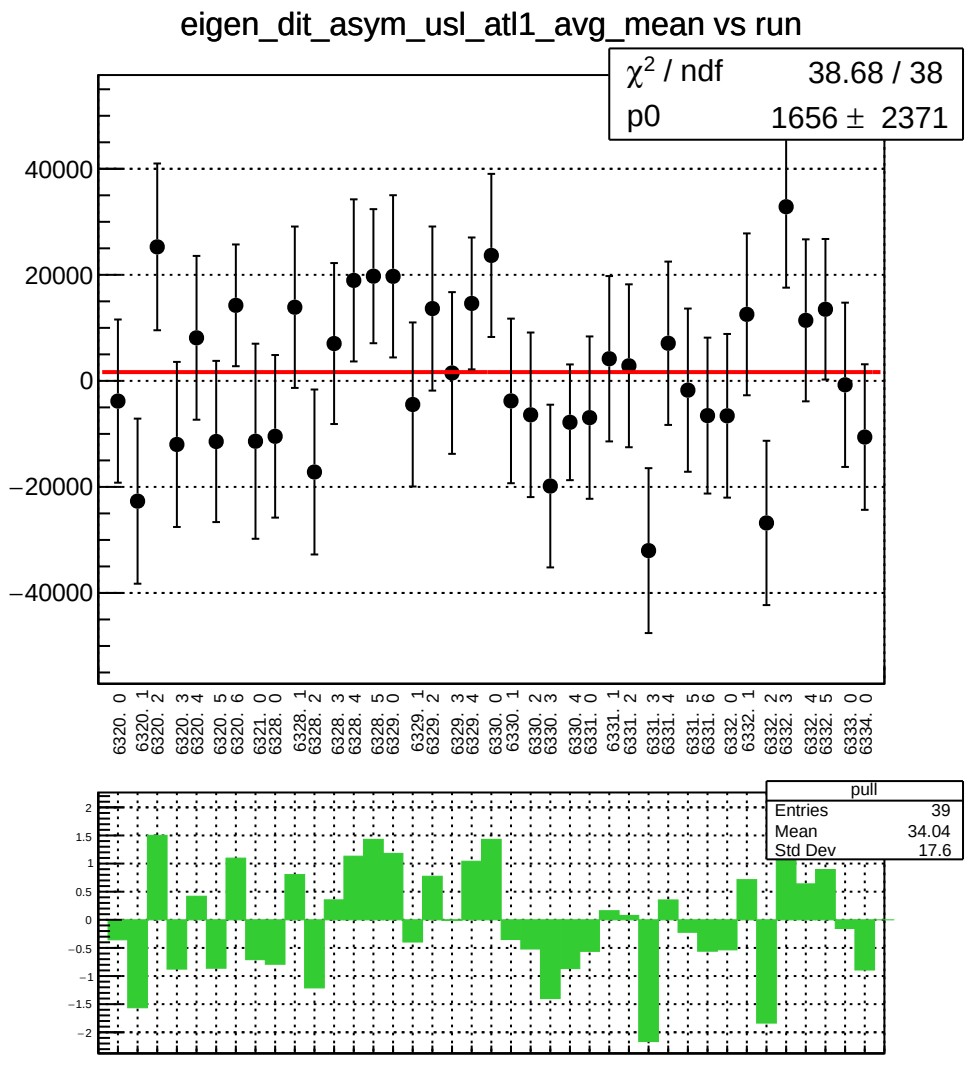

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.012e+04 / 38
p0 920.2 ± 1.071
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

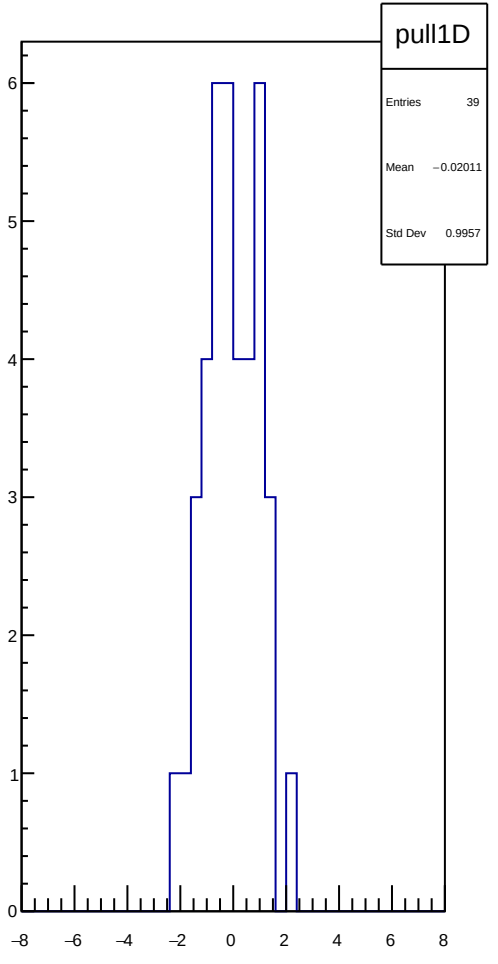

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.68 / 38
p0 1656 ± 2371
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.04
Std Dev 17.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02011
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

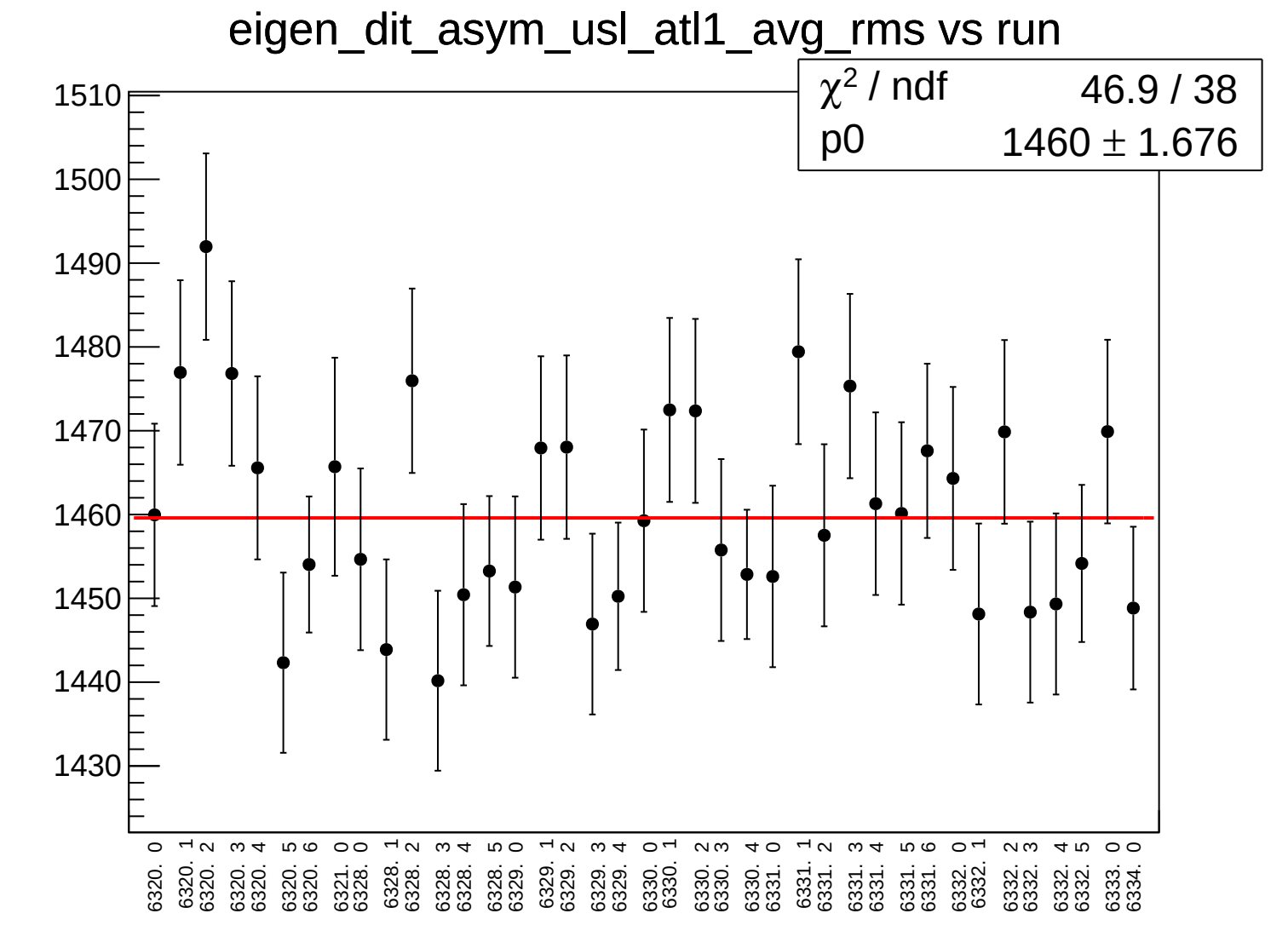

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 46.9 / 38
p0 1460 ± 1.676
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

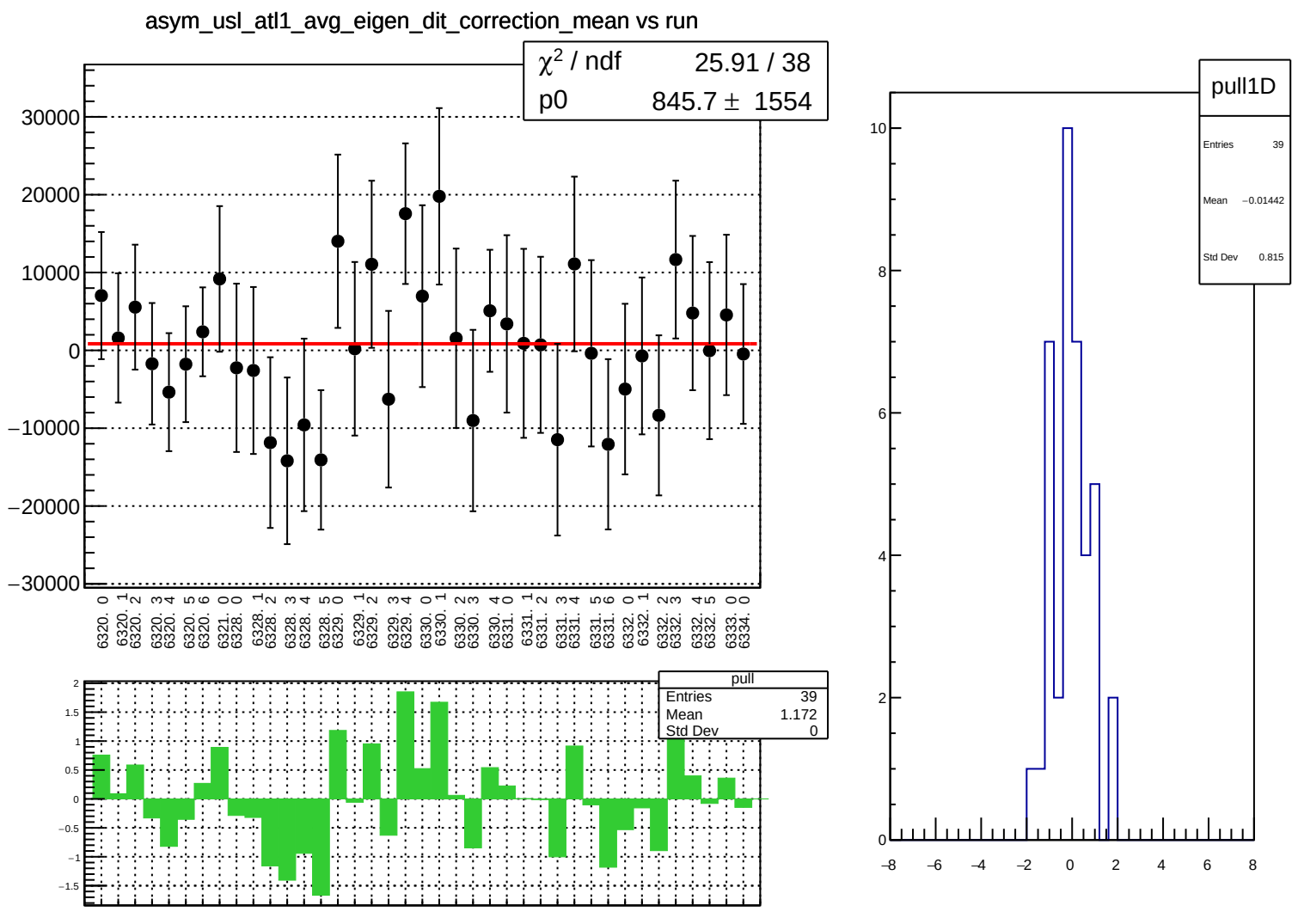

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 25.91 / 38
p0 845.7 ± 1554
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01442
Std Dev 0.815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

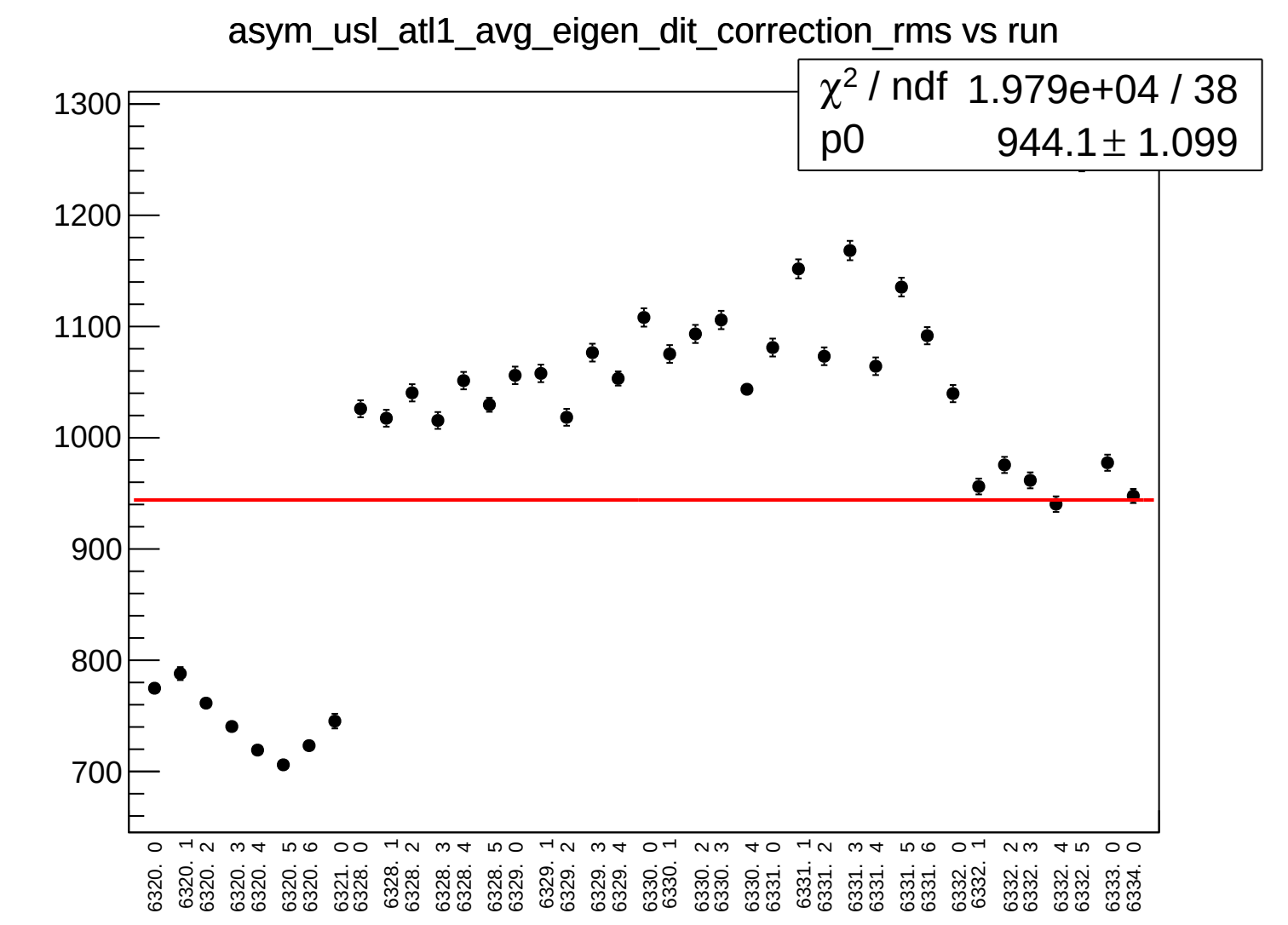

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.979e+04 / 38
p0 944.1 ± 1.099
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

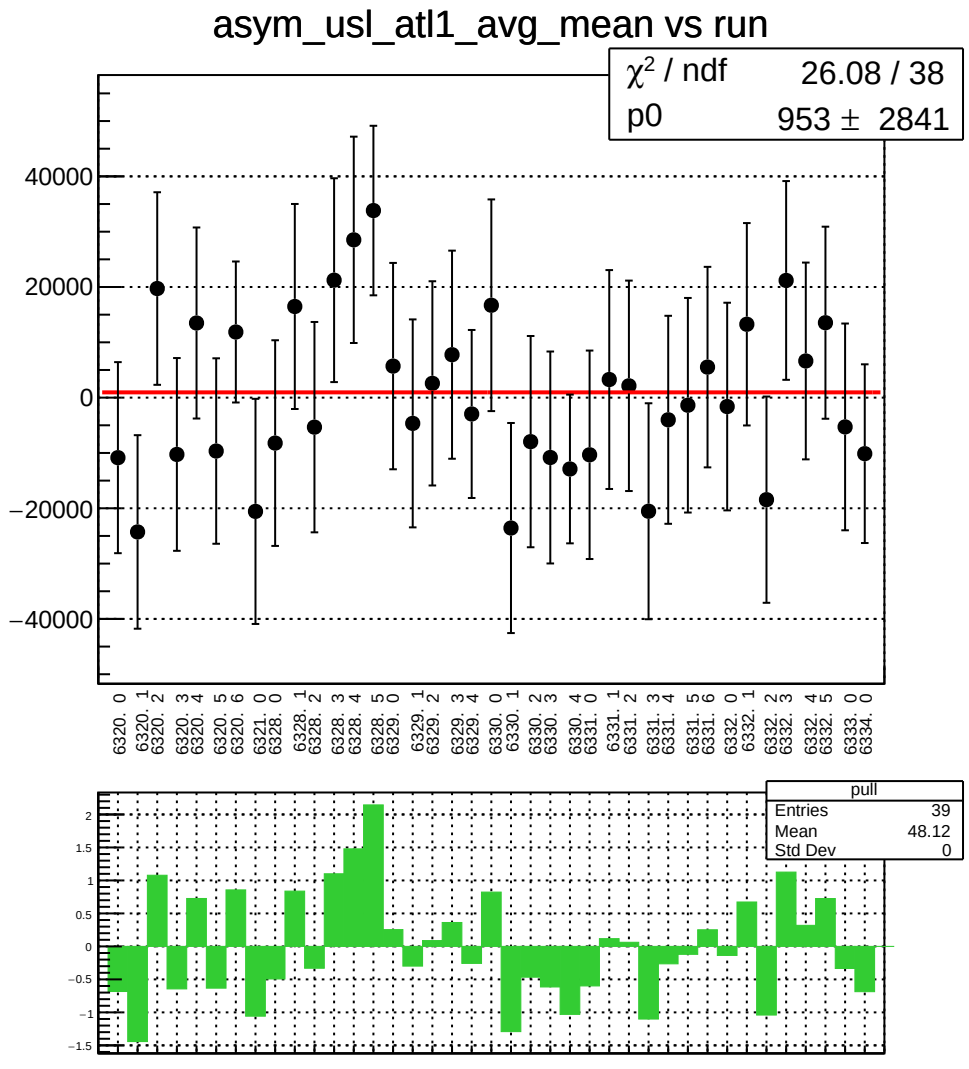

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.68 / 38
p0 1656 ± 2371
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.04
Std Dev 17.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

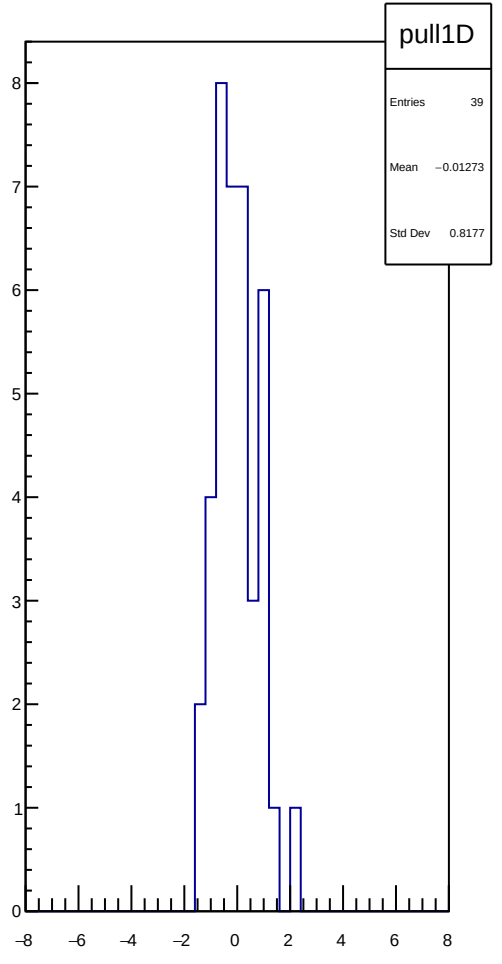

pull1D
Entries 39
Mean −0.02011
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

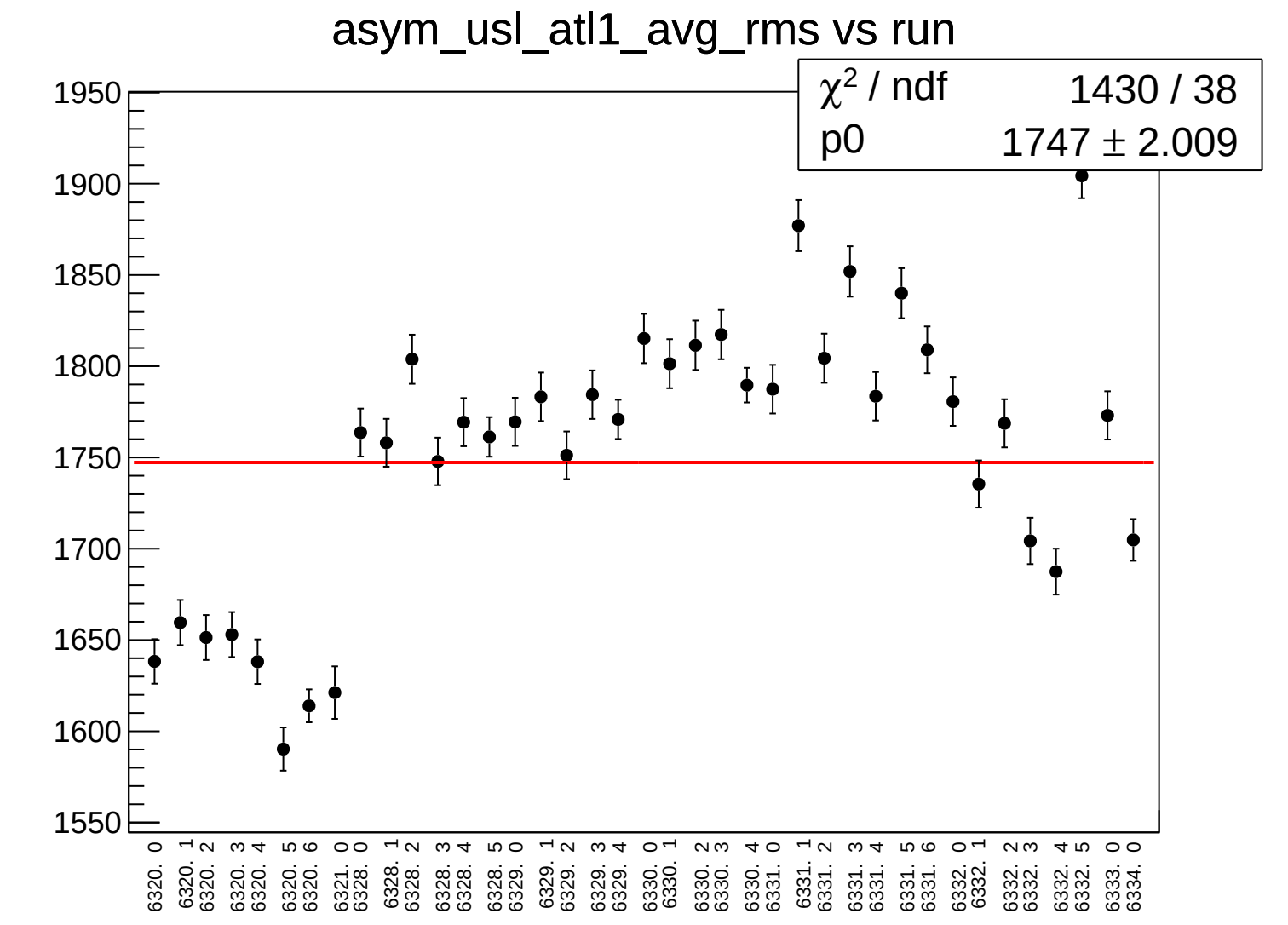

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 46.9 / 38
p0 1460 ± 1.676
1510
1500
1490
1480
1470
1460
1450
1440
1430
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

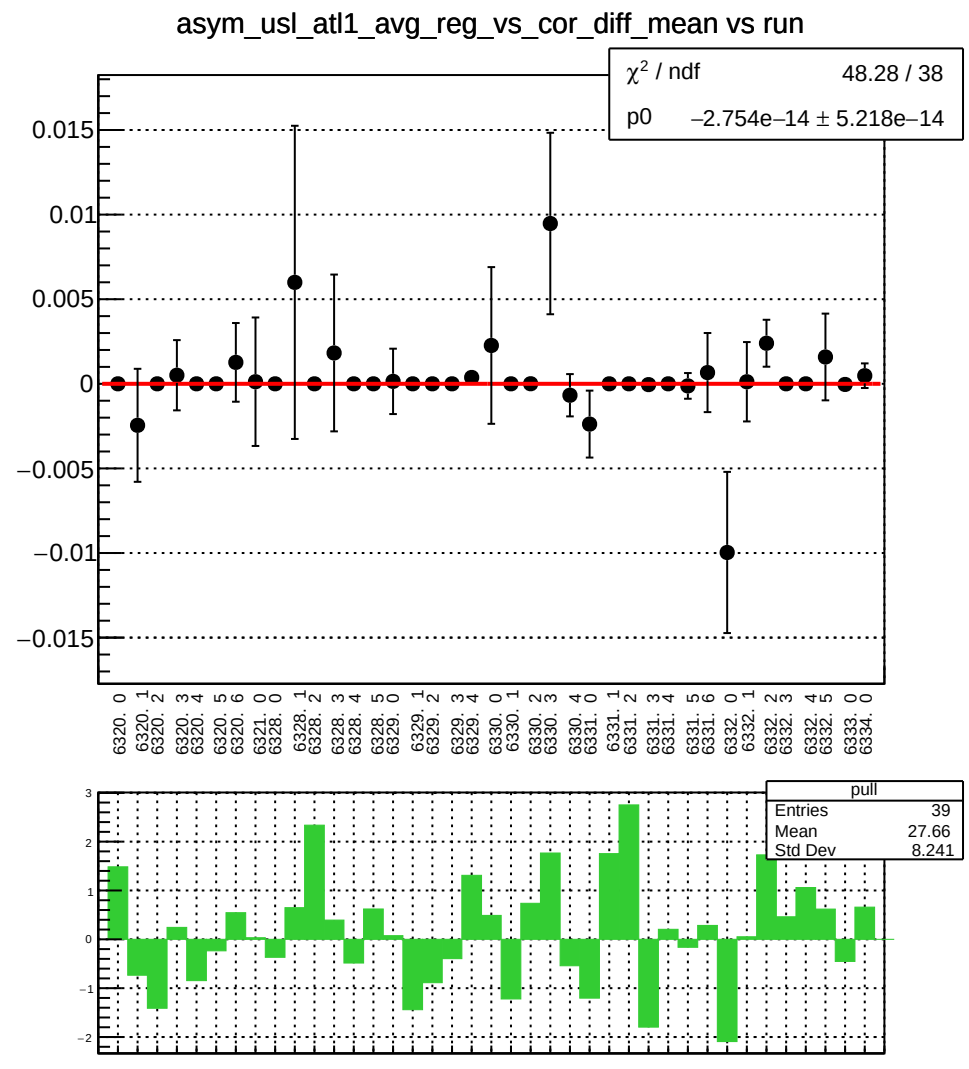

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.91 / 38
p0 845.7 ± 1554
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01442
Std Dev 0.815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

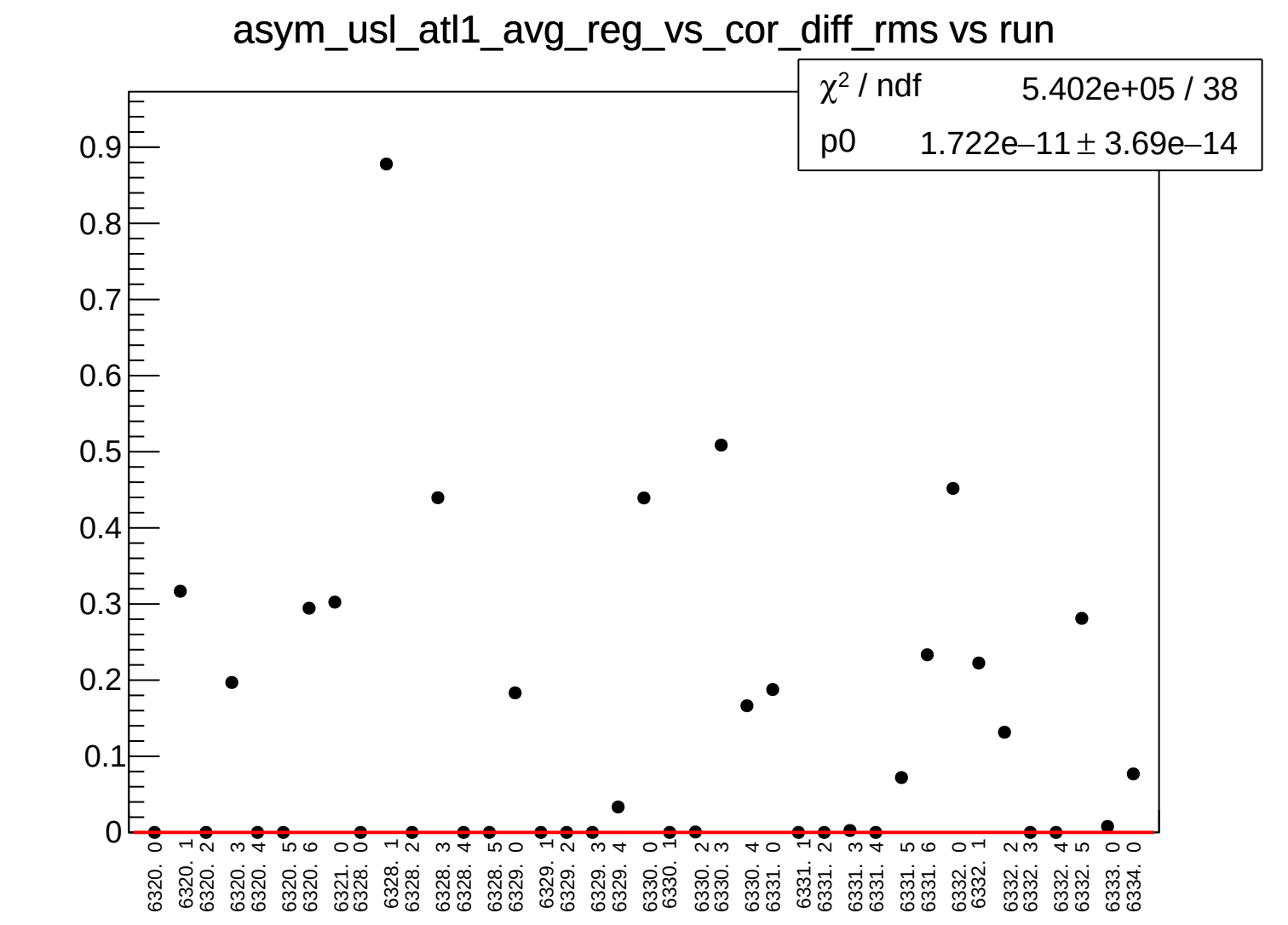

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.979e+04 / 38
p0 944.1 ± 1.099
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

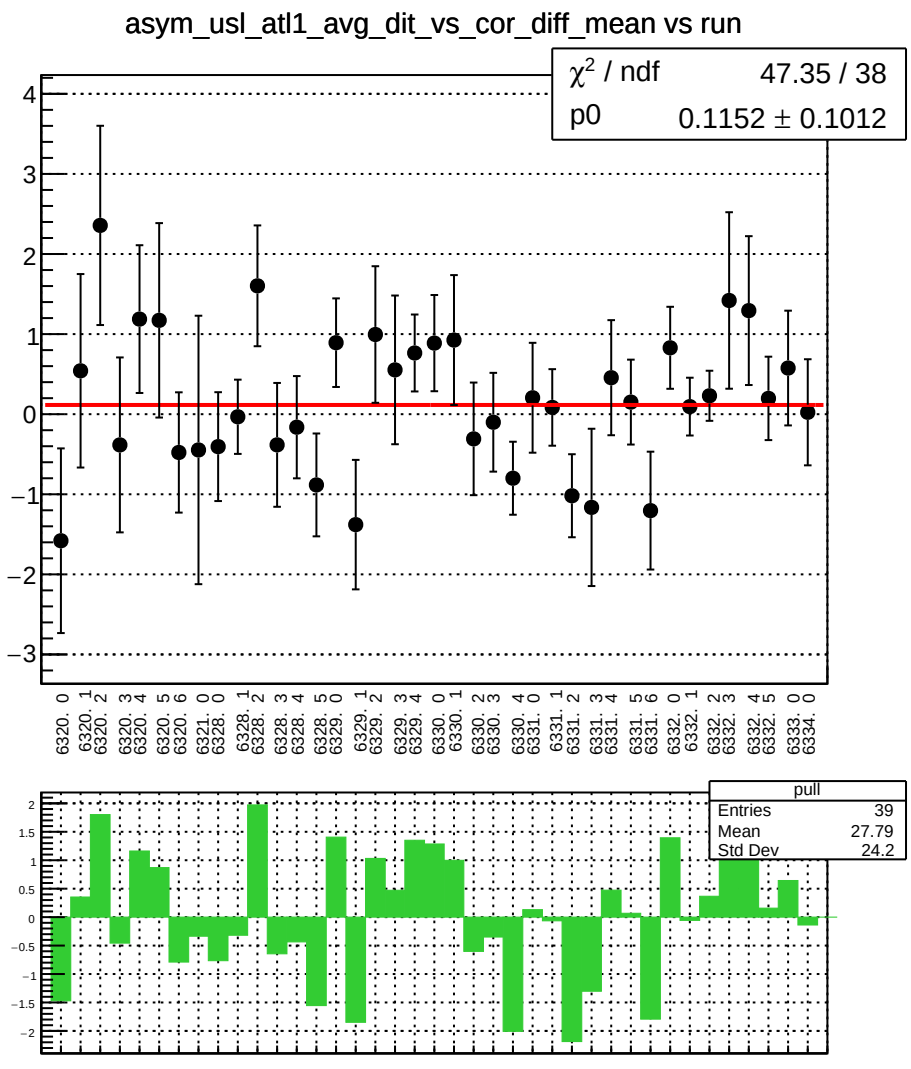

asym_usl_atl1_avg_mean vs run
χ² / ndf 26.08 / 38
p0 953 ± 2841
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 48.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

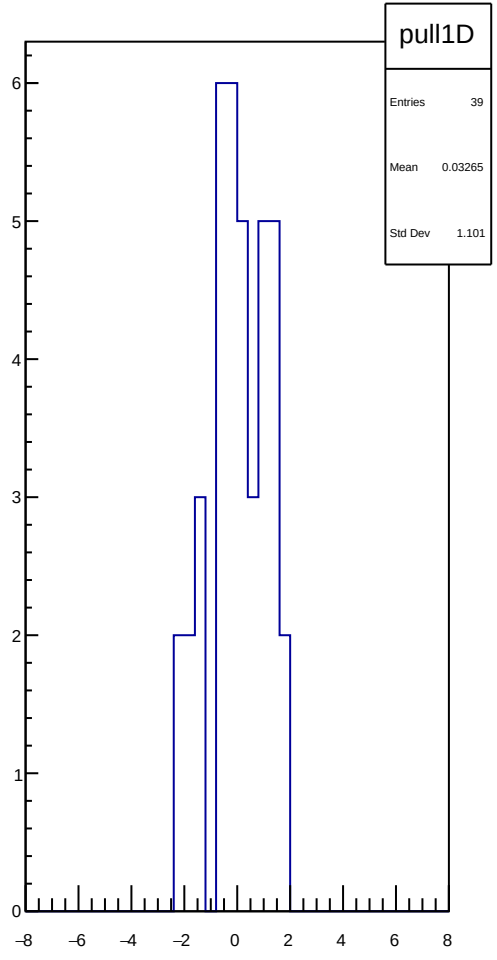

pull1D
Entries 39
Mean −0.01273
Std Dev 0.8177
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

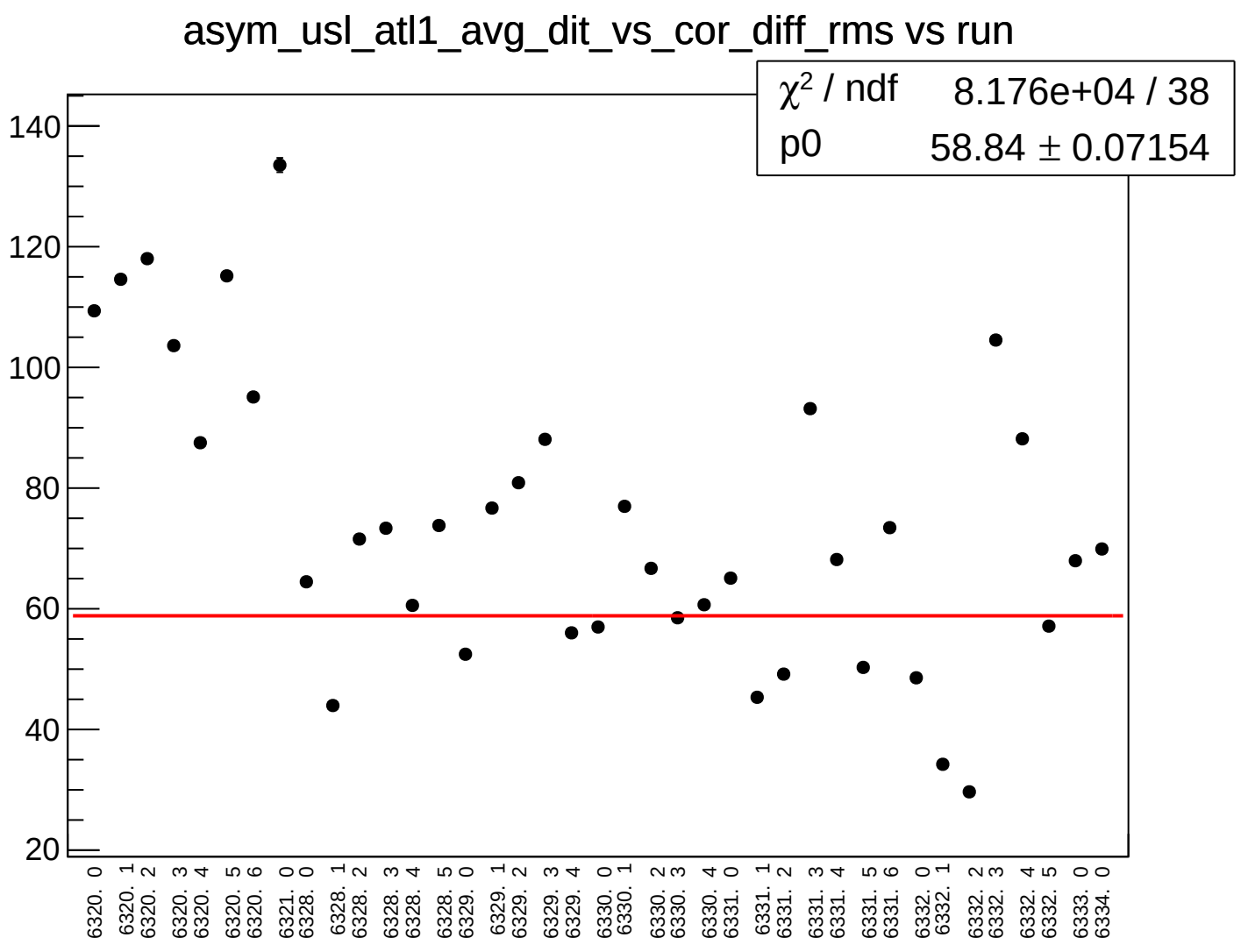

asym_usl_atl1_avg_rms vs run
χ² / ndf 1430 / 38
p0 1747 ± 2.009
1950
1900
1850
1800
1750
1700
1650
1600
1550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

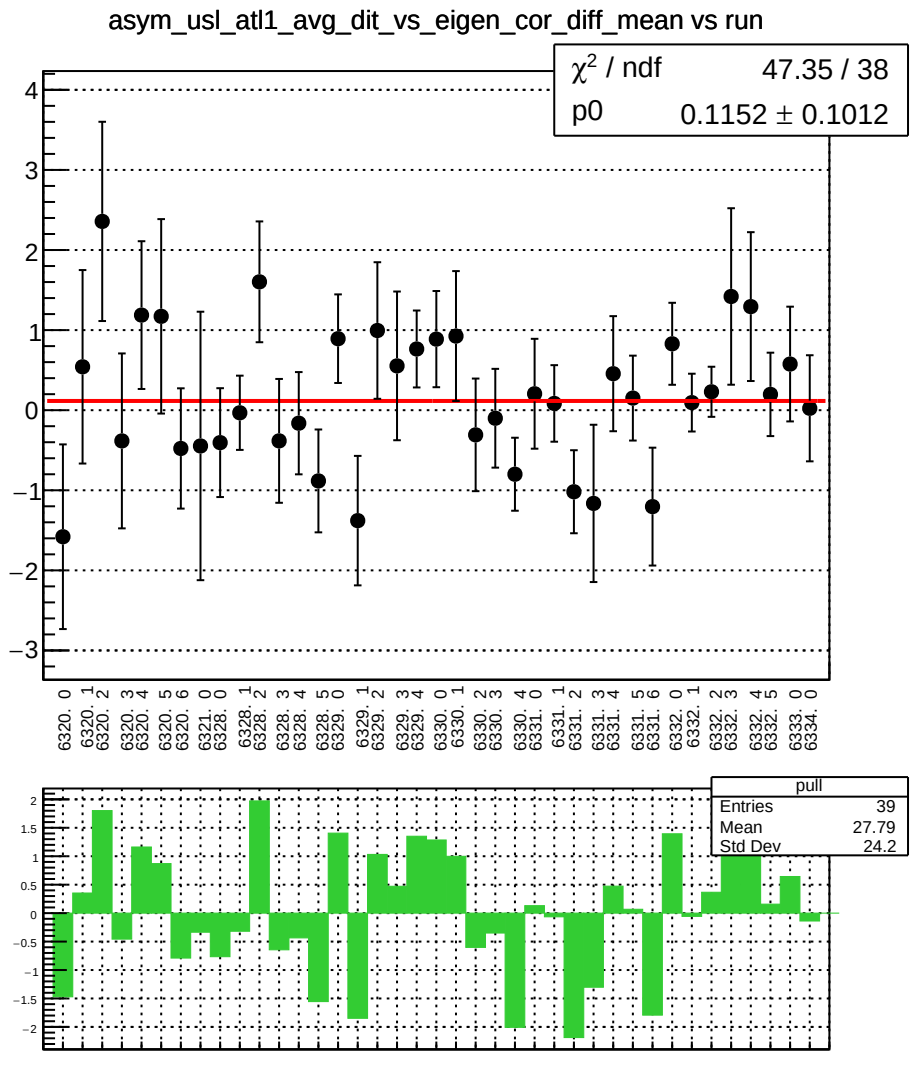

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.28 / 38
p0 −2.754e−14 ± 5.218e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.66
Std Dev 8.241
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1535
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

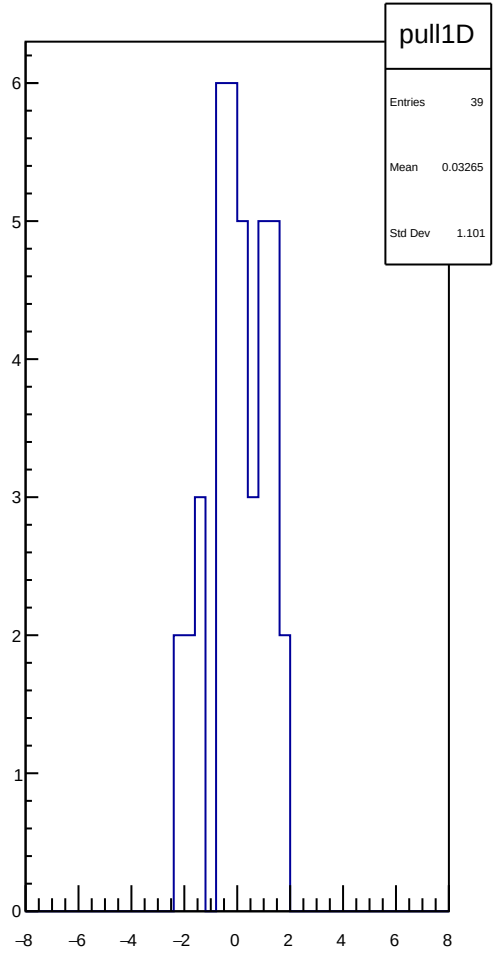

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.402e+05 / 38
p0 1.722e−11 ± 3.69e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

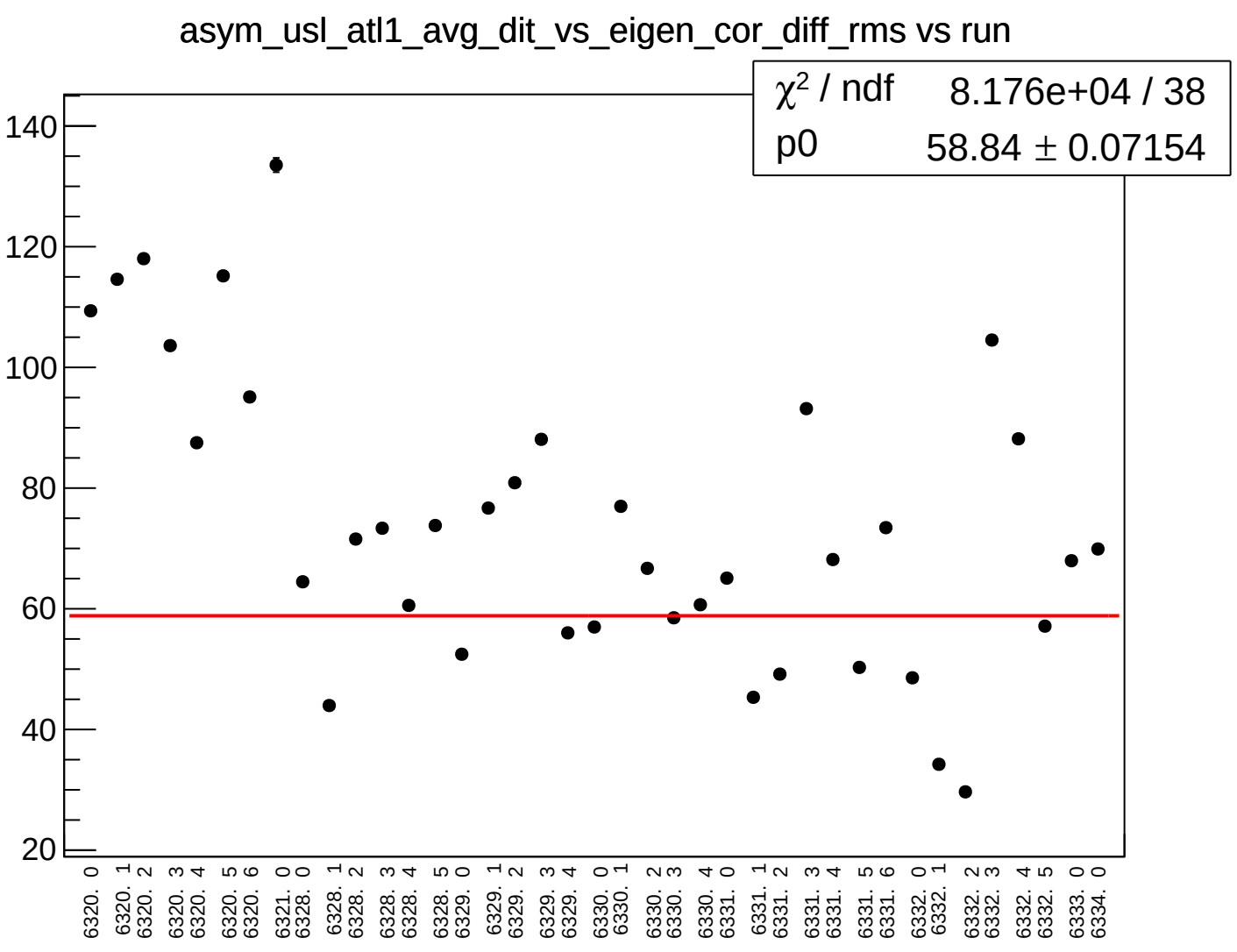

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.35 / 38
p0 0.1152 ± 0.1012
pull
Entries 39
Mean 27.79
Std Dev 24.2

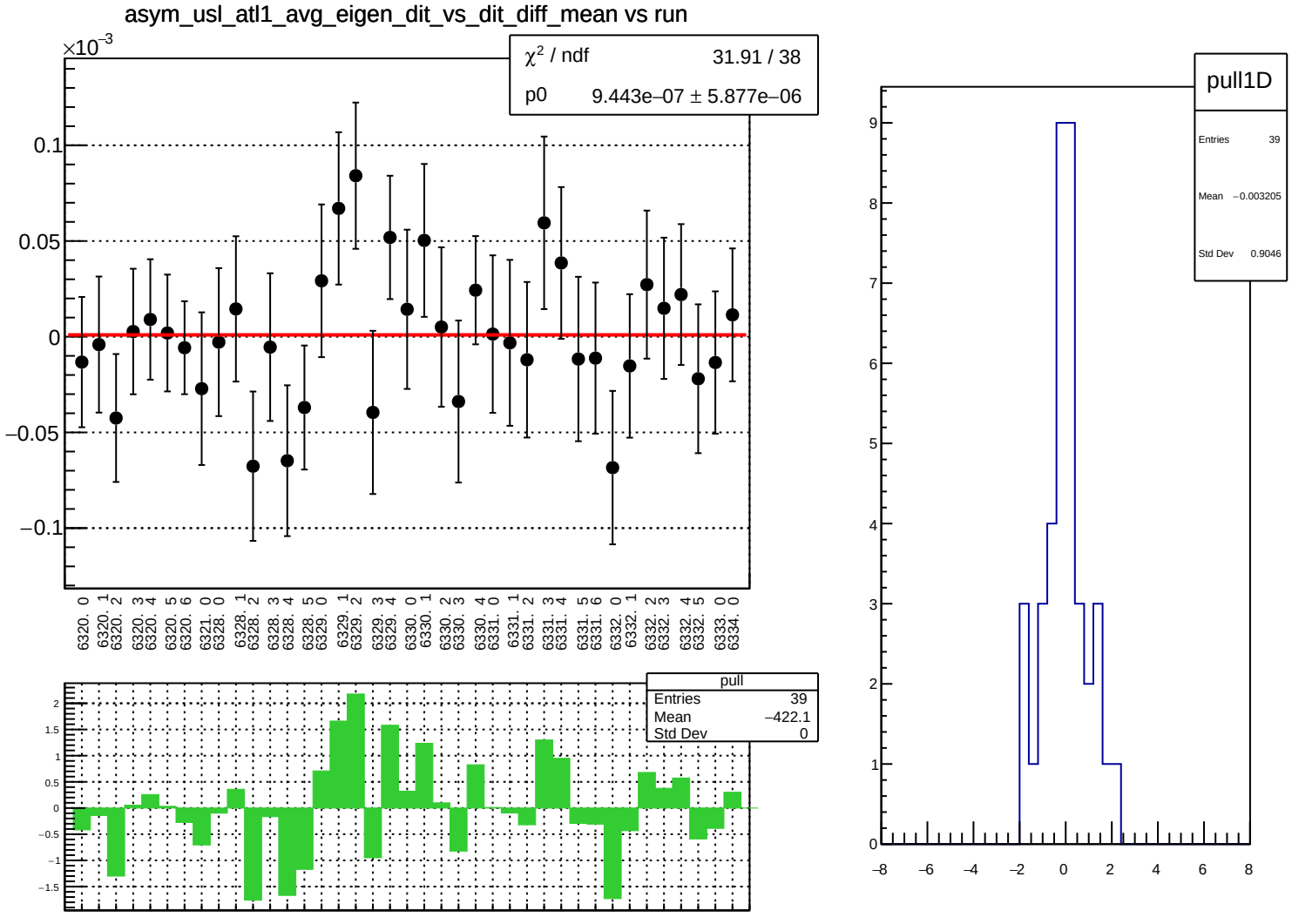

pull1D
Entries 39
Mean 0.03265
Std Dev 1.101

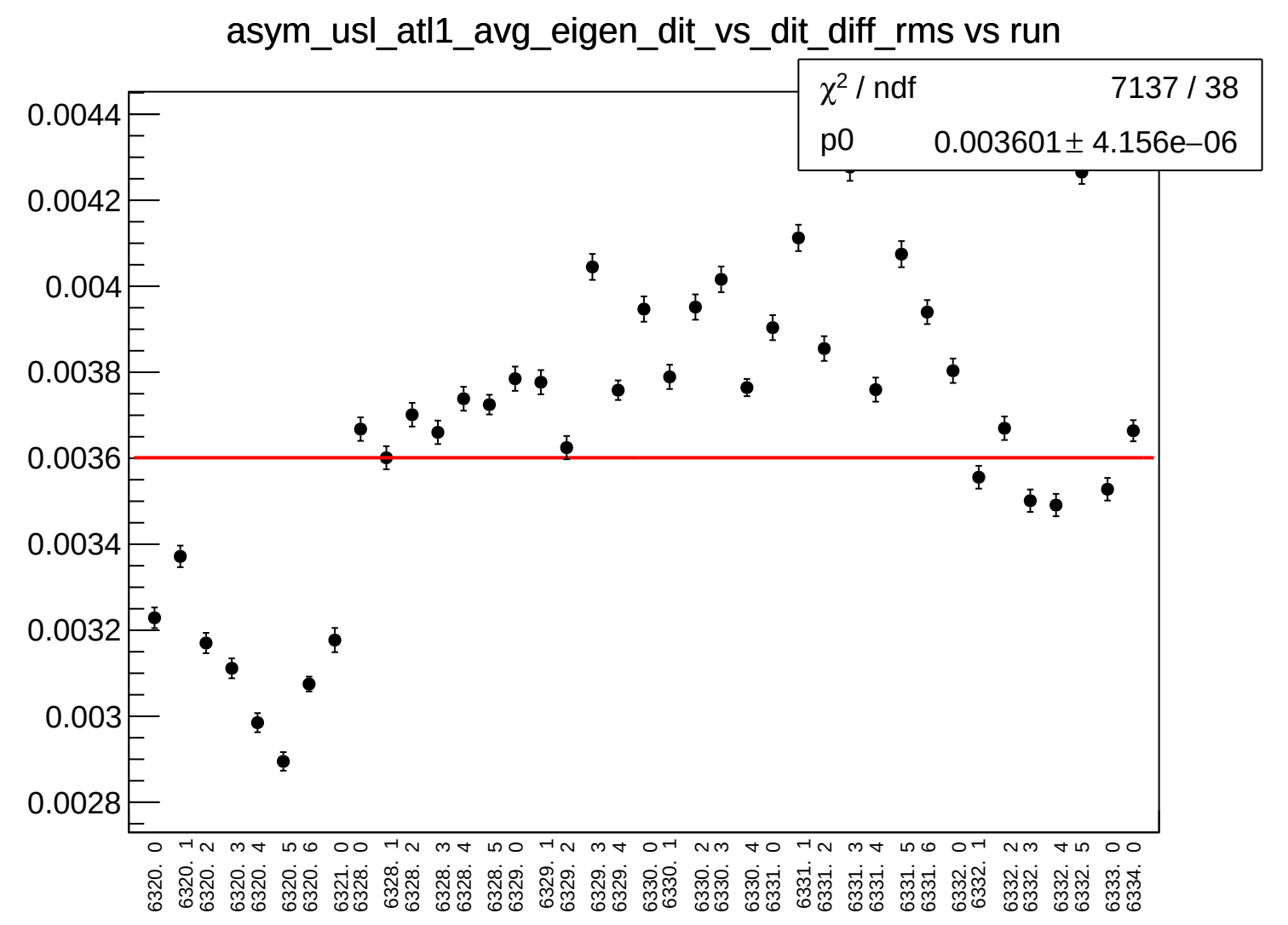

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.176e+04 / 38
p0 58.84 ± 0.07154
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

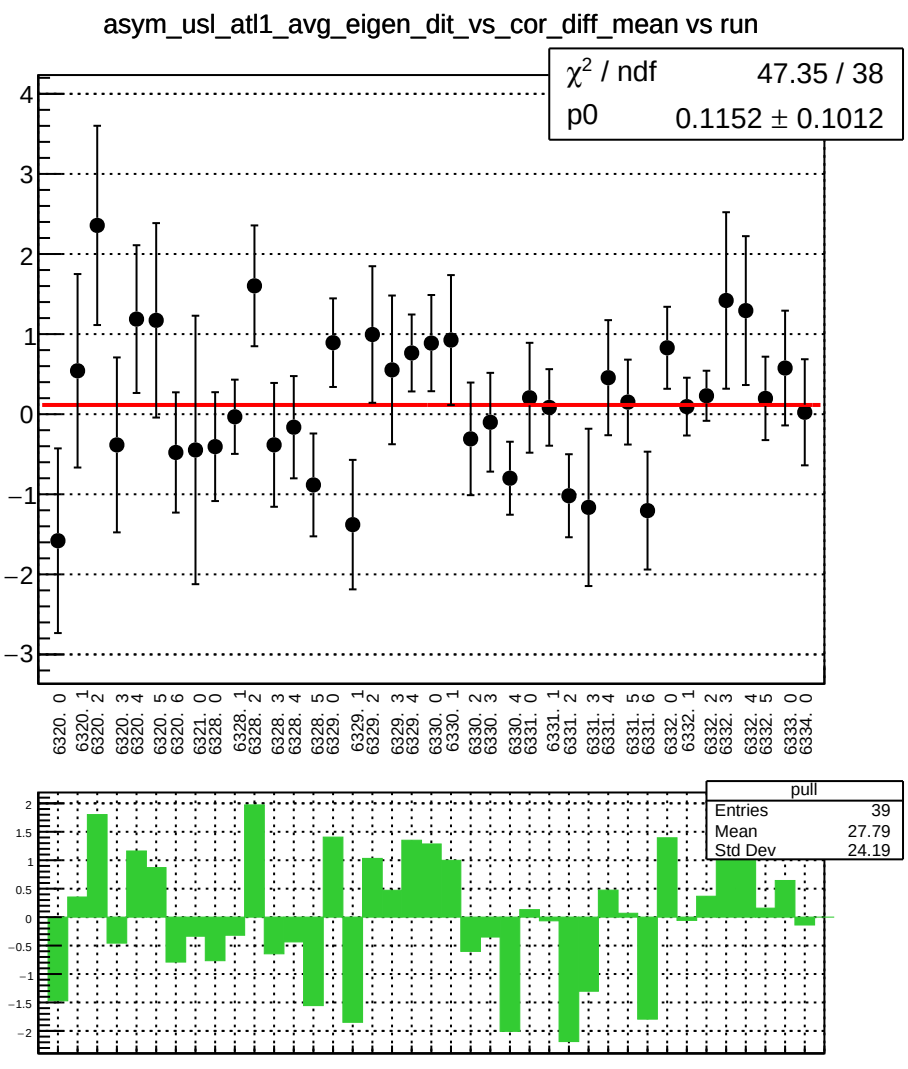

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.35 / 38
p0 0.1152 ± 0.1012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.79
Std Dev 24.2

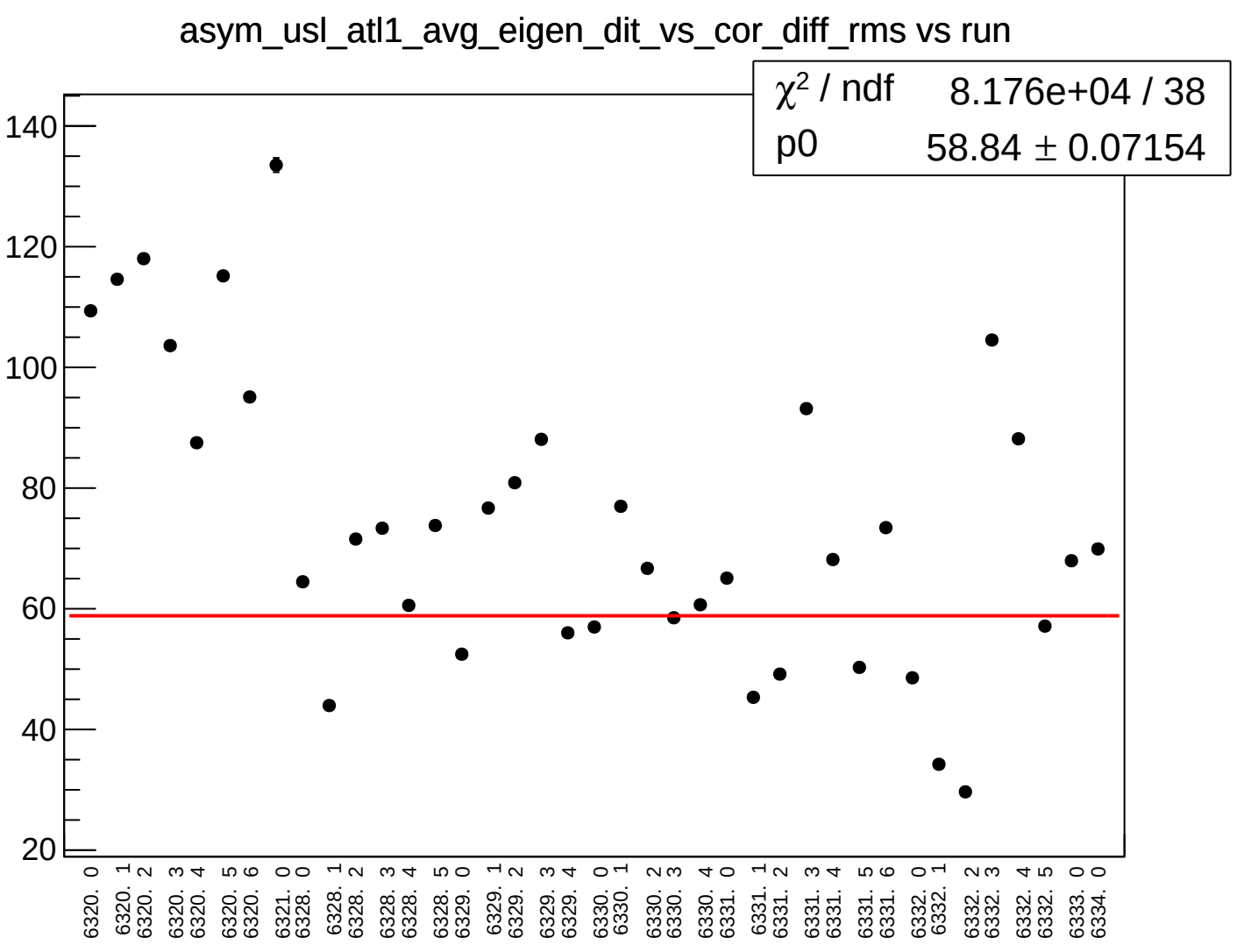

pull1D
Entries 39
Mean 0.03265
Std Dev 1.101

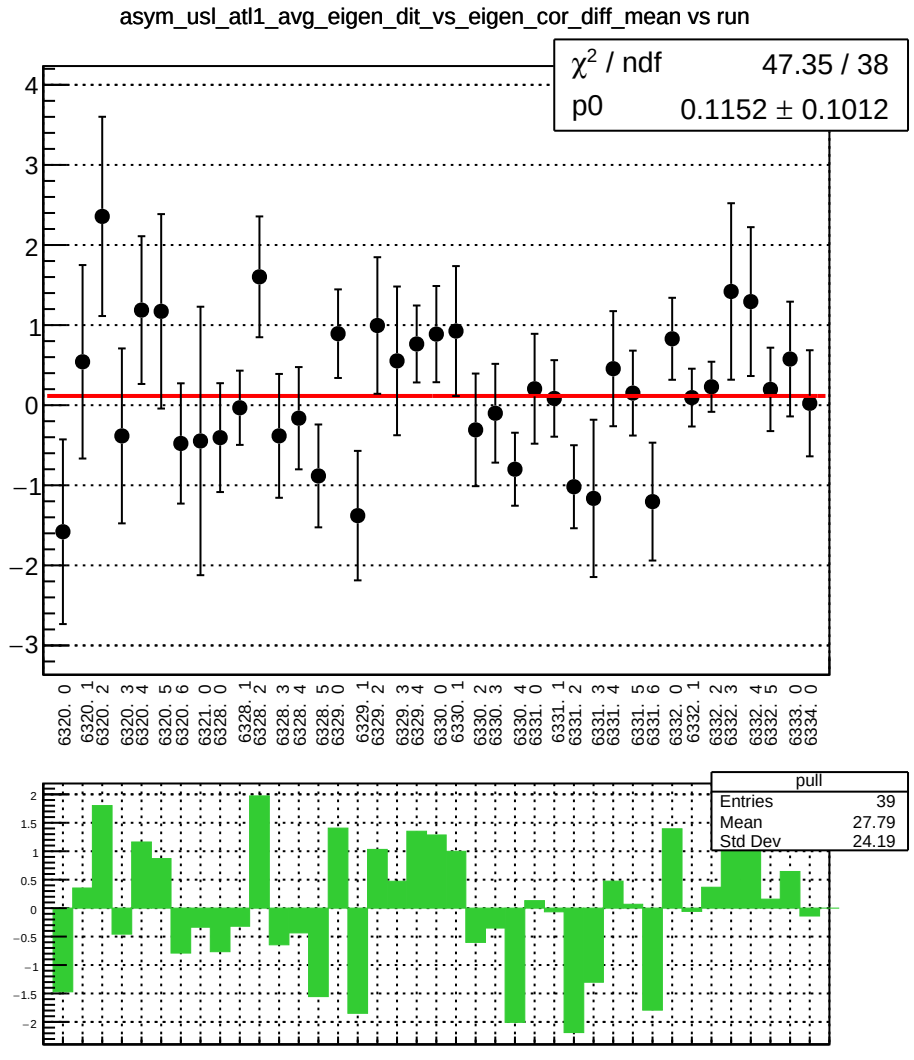

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.176e+04 / 38
p0 58.84 ± 0.07154
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

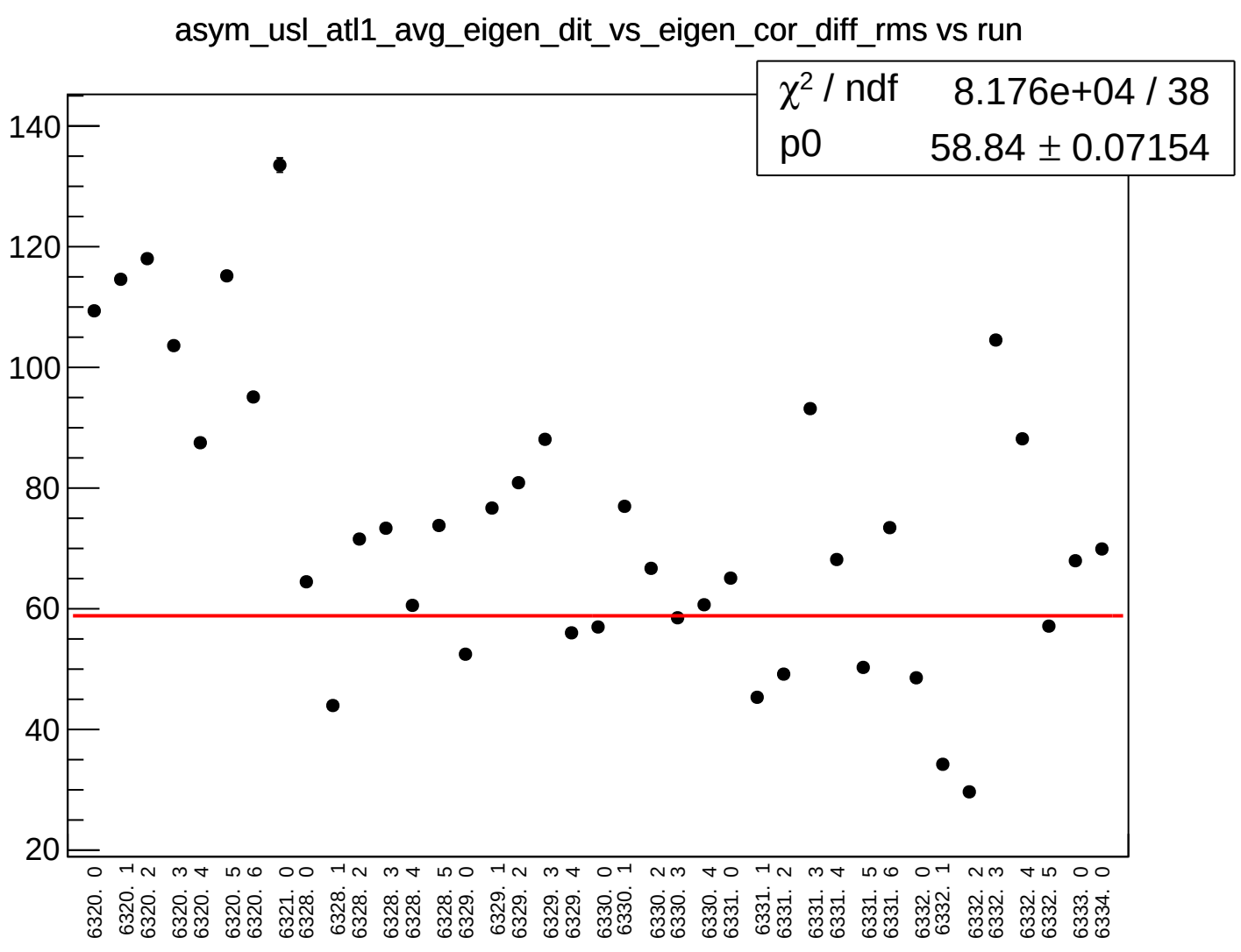

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.91 / 38
p0 9.443e−07 ± 5.877e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −422.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.003205
Std Dev 0.9046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

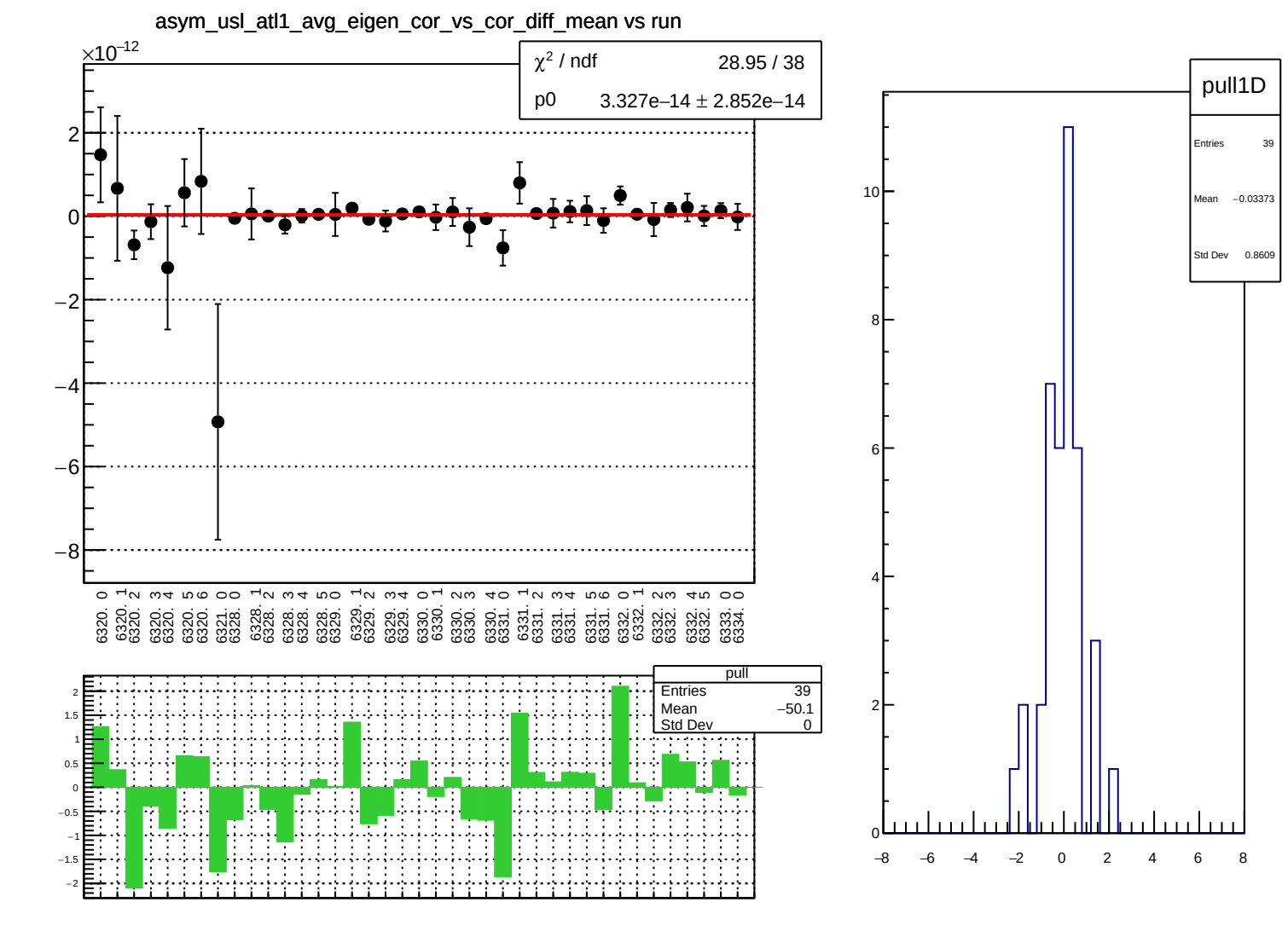

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7137 / 38
p0 0.003601 ± 4.156e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

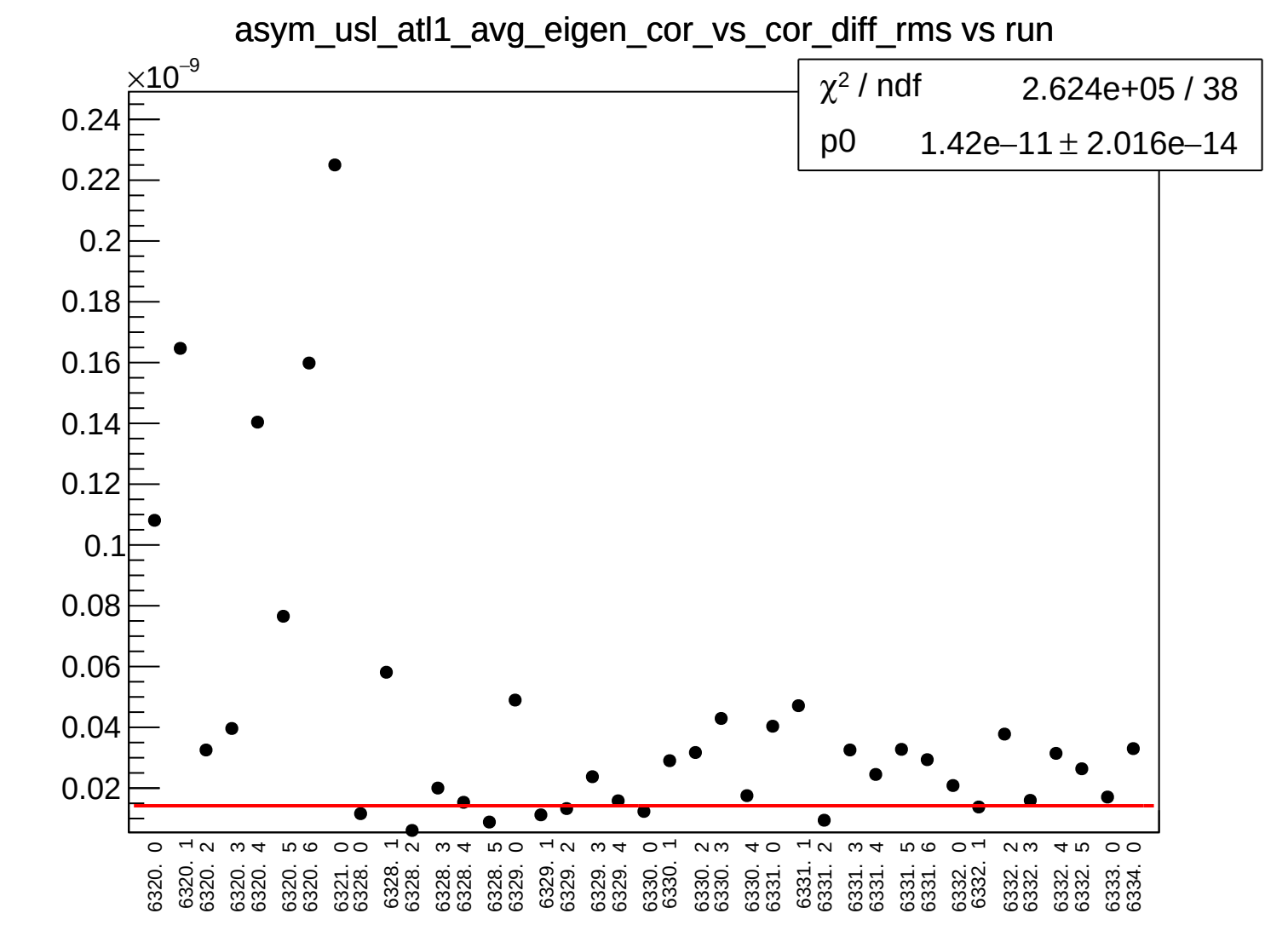

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.35 / 38
p0 0.1152 ± 0.1012
4
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.79
Std Dev 24.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03266
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

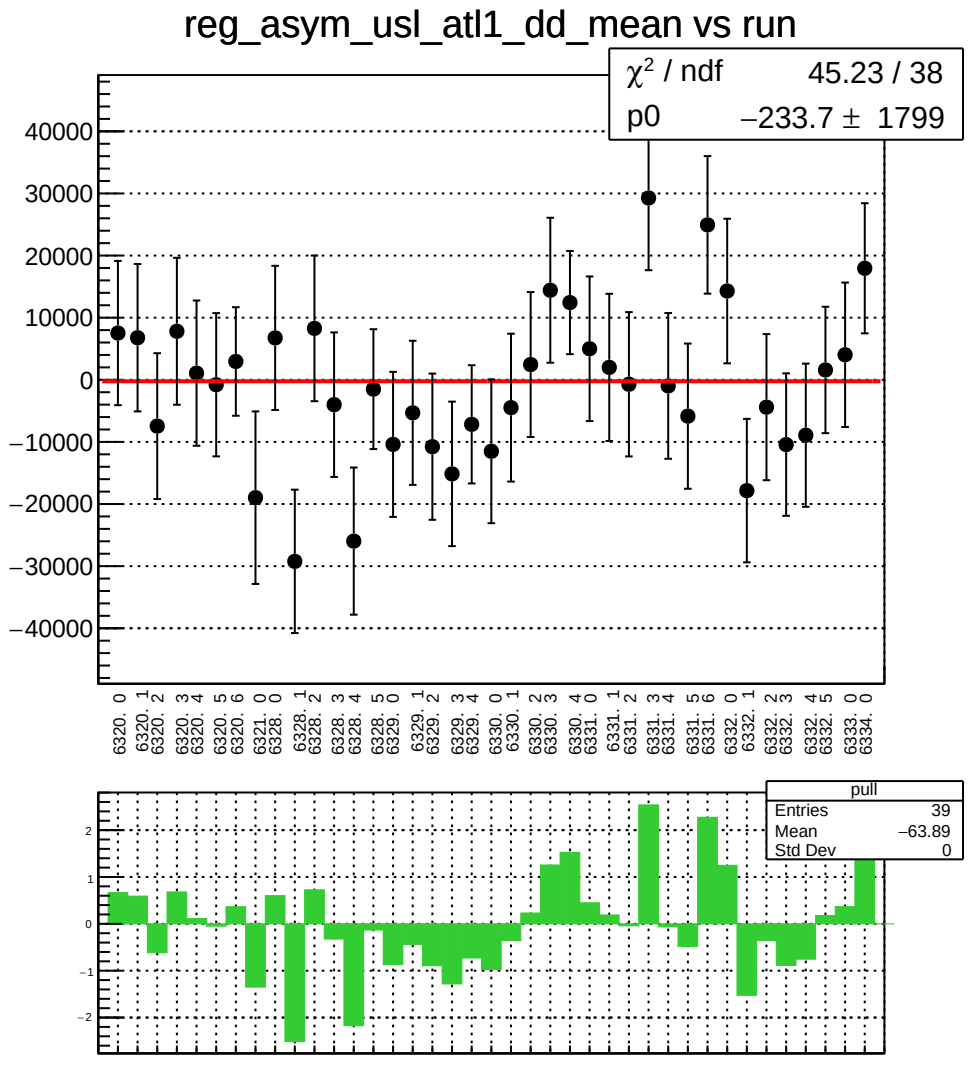

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.176e+04 / 38
p0 58.84 ± 0.07154
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

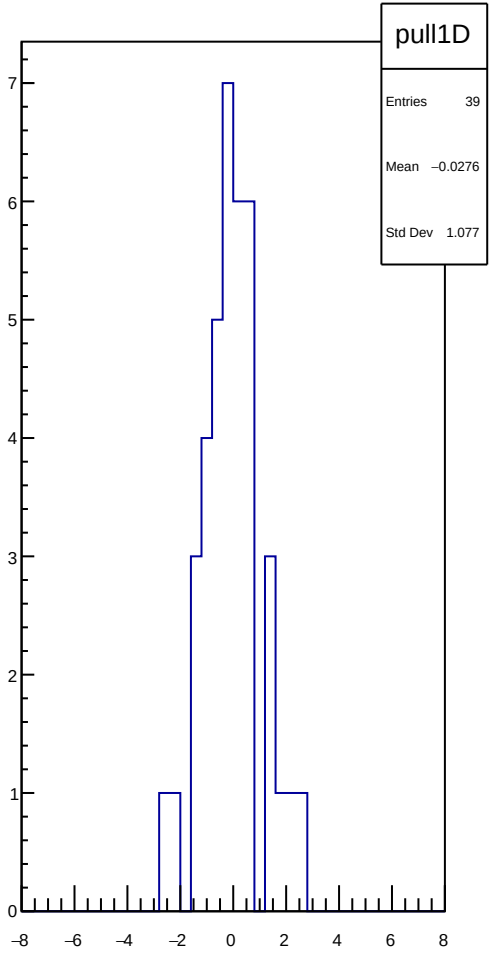

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.35 / 38
p0 0.1152 ± 0.1012
pull
Entries 39
Mean 27.79
Std Dev 24.19
pull1D
Entries 39
Mean 0.03266
Std Dev 1.101

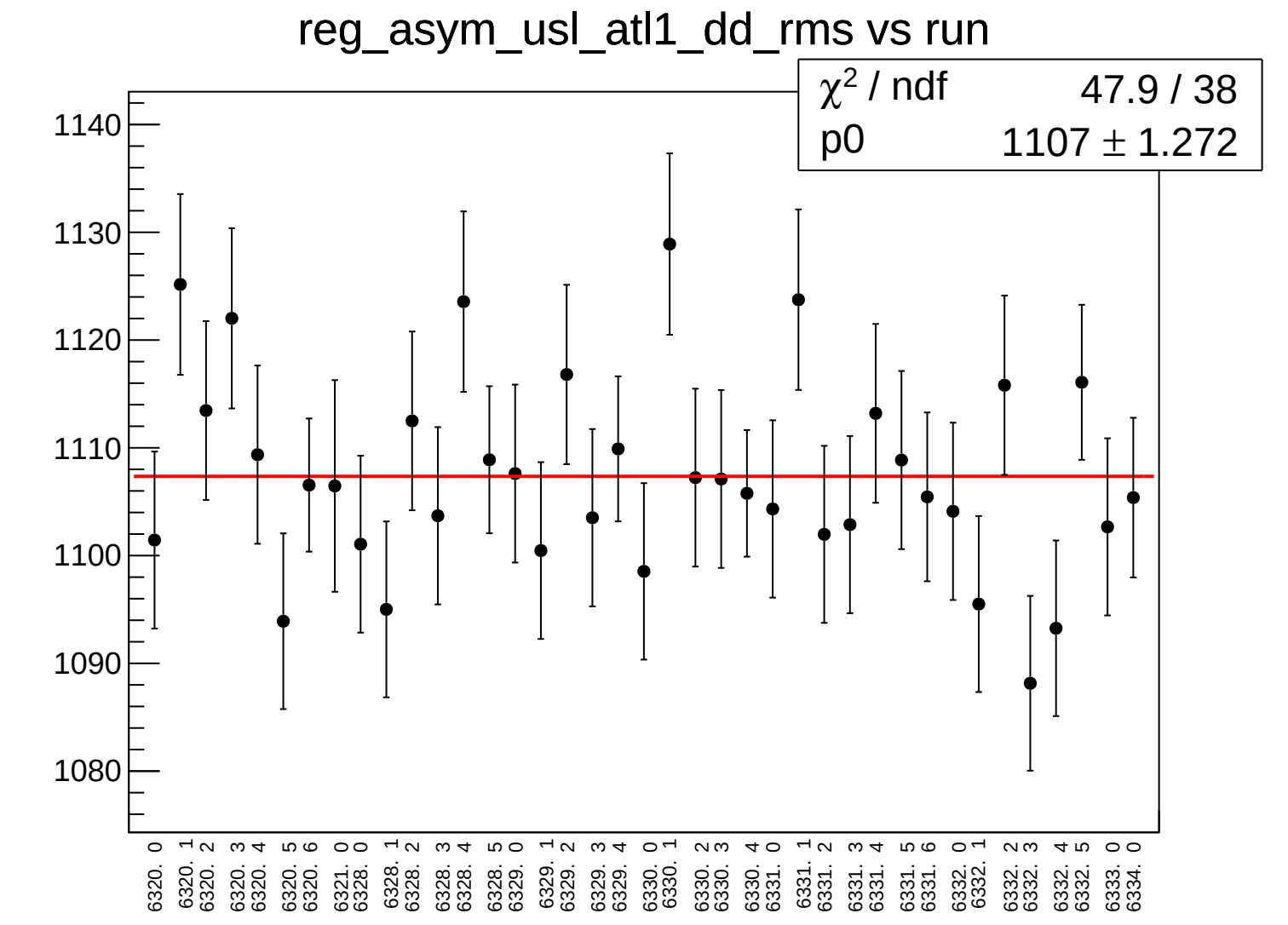

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.176e+04 / 38
p0 58.84 ± 0.07154
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

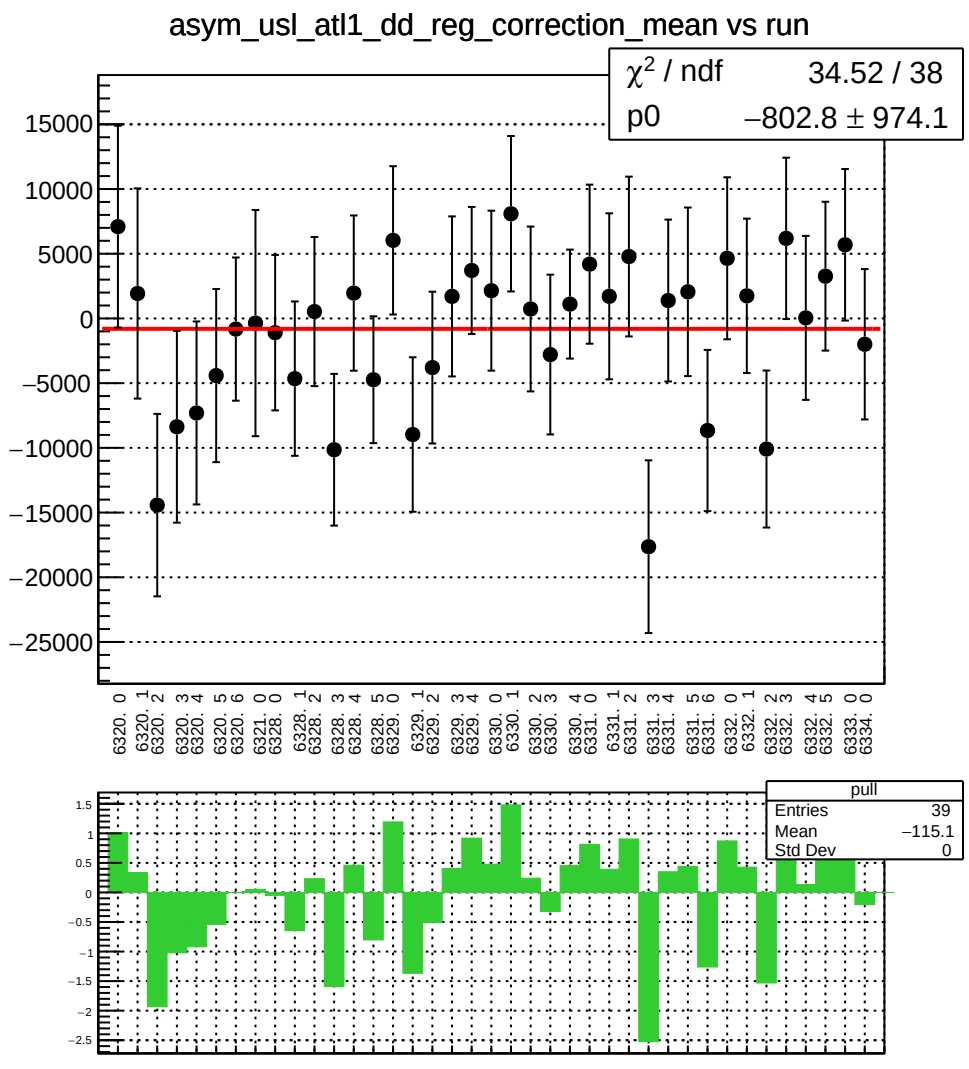

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 28.95 / 38
p0 3.327e−14 ± 2.852e−14
pull
Entries 39
Mean −50.1
Std Dev 0
pull1D
Entries 39
Mean −0.03373
Std Dev 0.8609

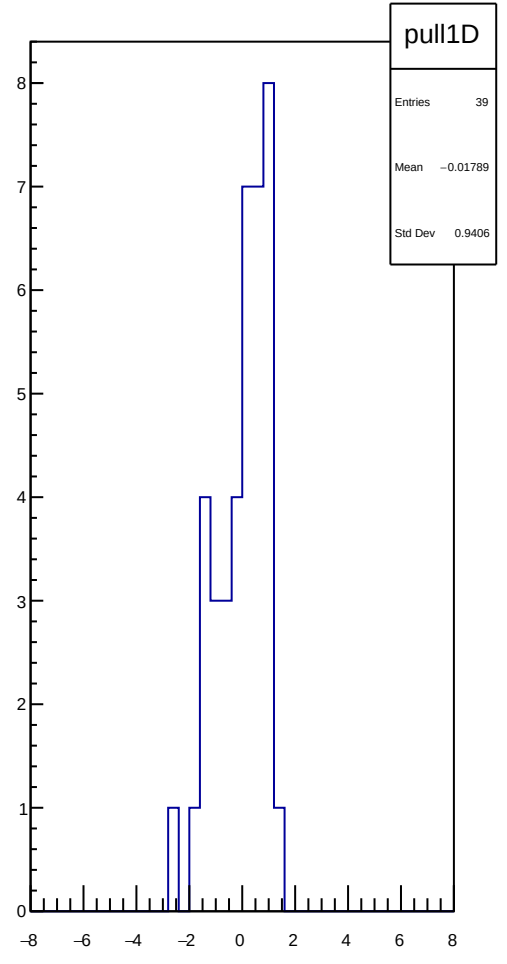

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.624e+05 / 38
p0 1.42e−11 ± 2.016e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

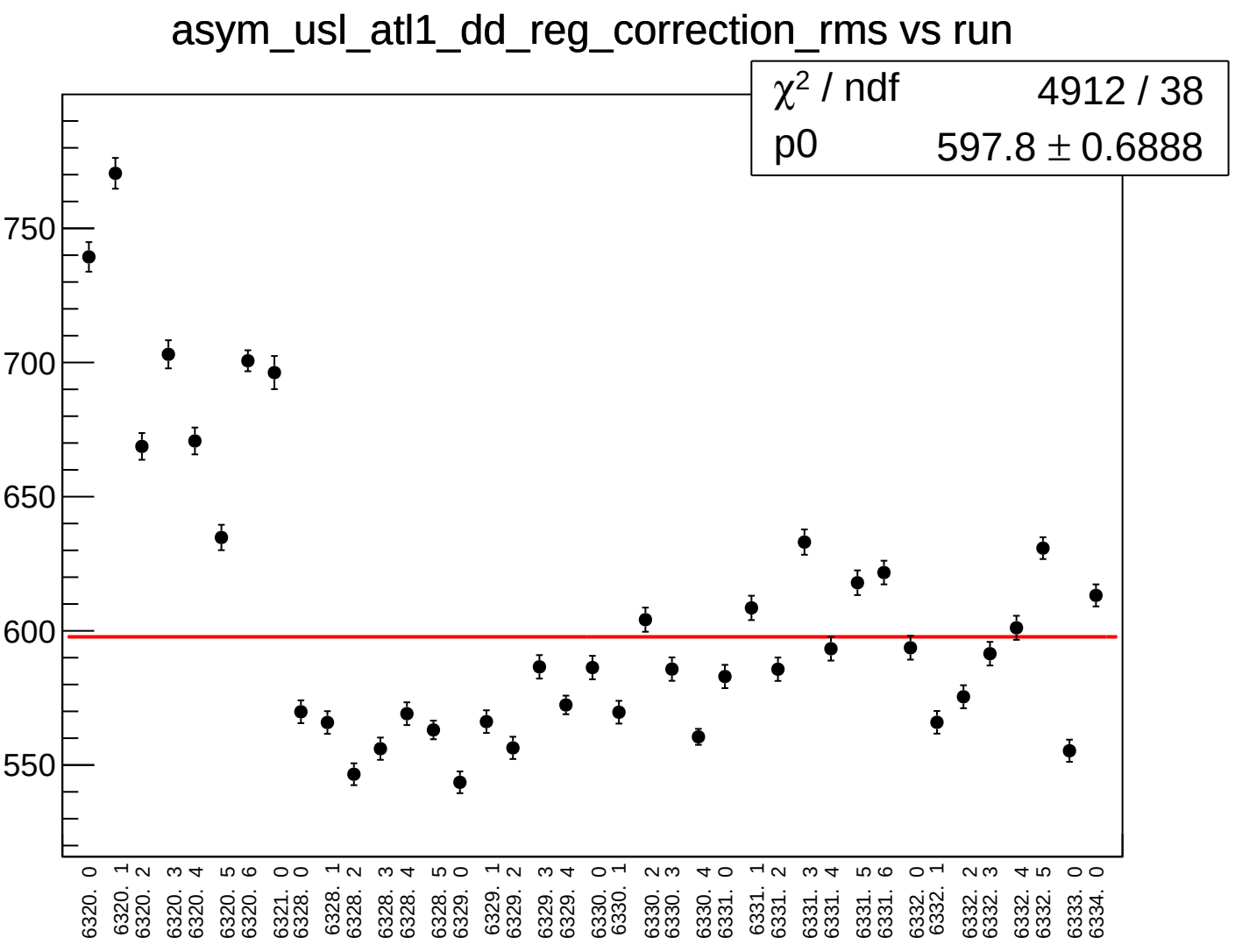

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 45.23 / 38
p0 −233.7 ± 1799
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.89
Std Dev 0
2
1
0
−1
−2

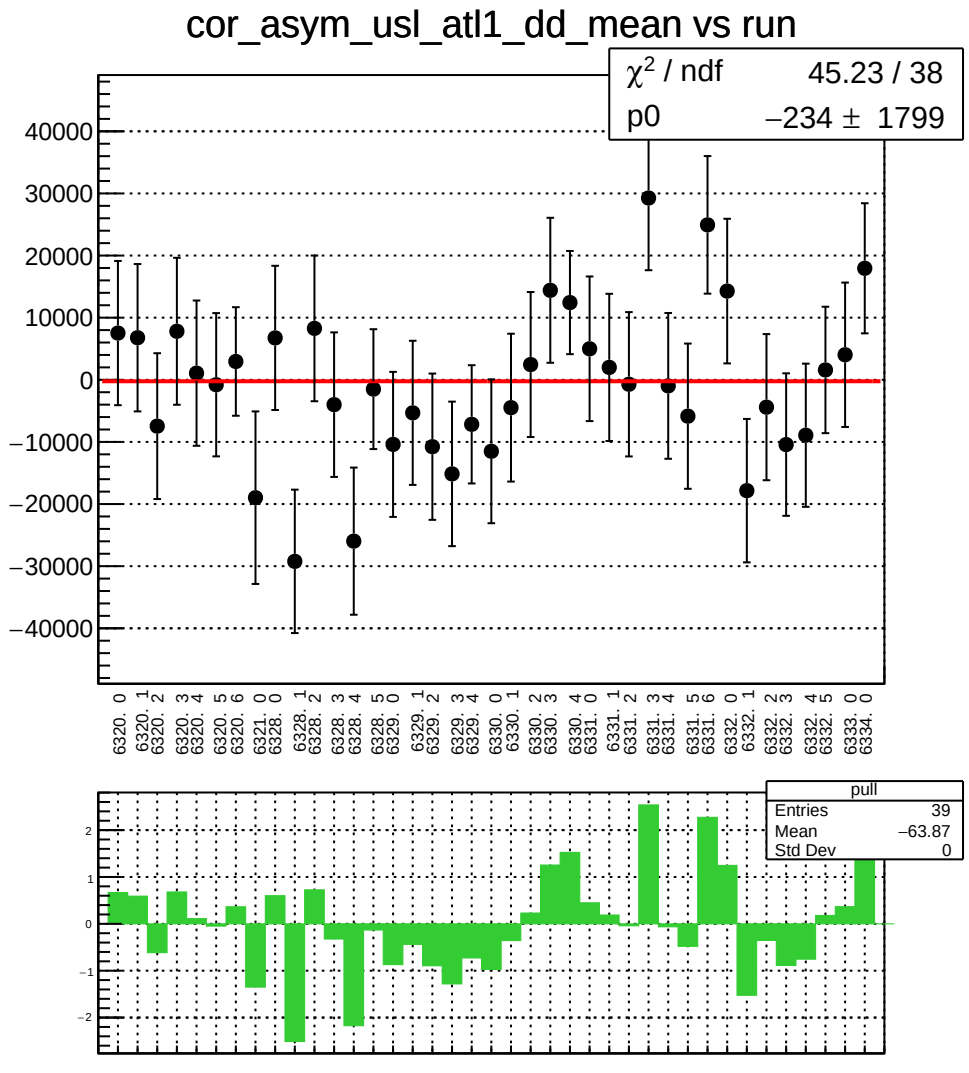

pull1D
Entries 39
Mean −0.0276
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

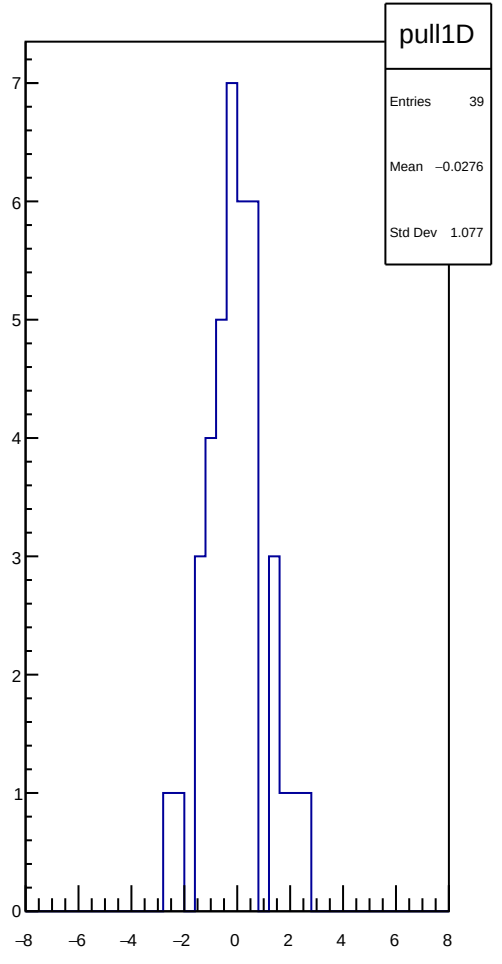

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 47.9 / 38
p0 1107 ± 1.272
1140
1130
1120
1110
1100
1090
1080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 34.52 / 38
p0 −802.8 ± 974.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −115.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.01789
Std Dev 0.9406
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4912 / 38
p0 597.8 ± 0.6888
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 45.23 / 38
p0 −234 ± 1799
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.87
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.0276
Std Dev 1.077
7
6
5
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3
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1
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−4
−2
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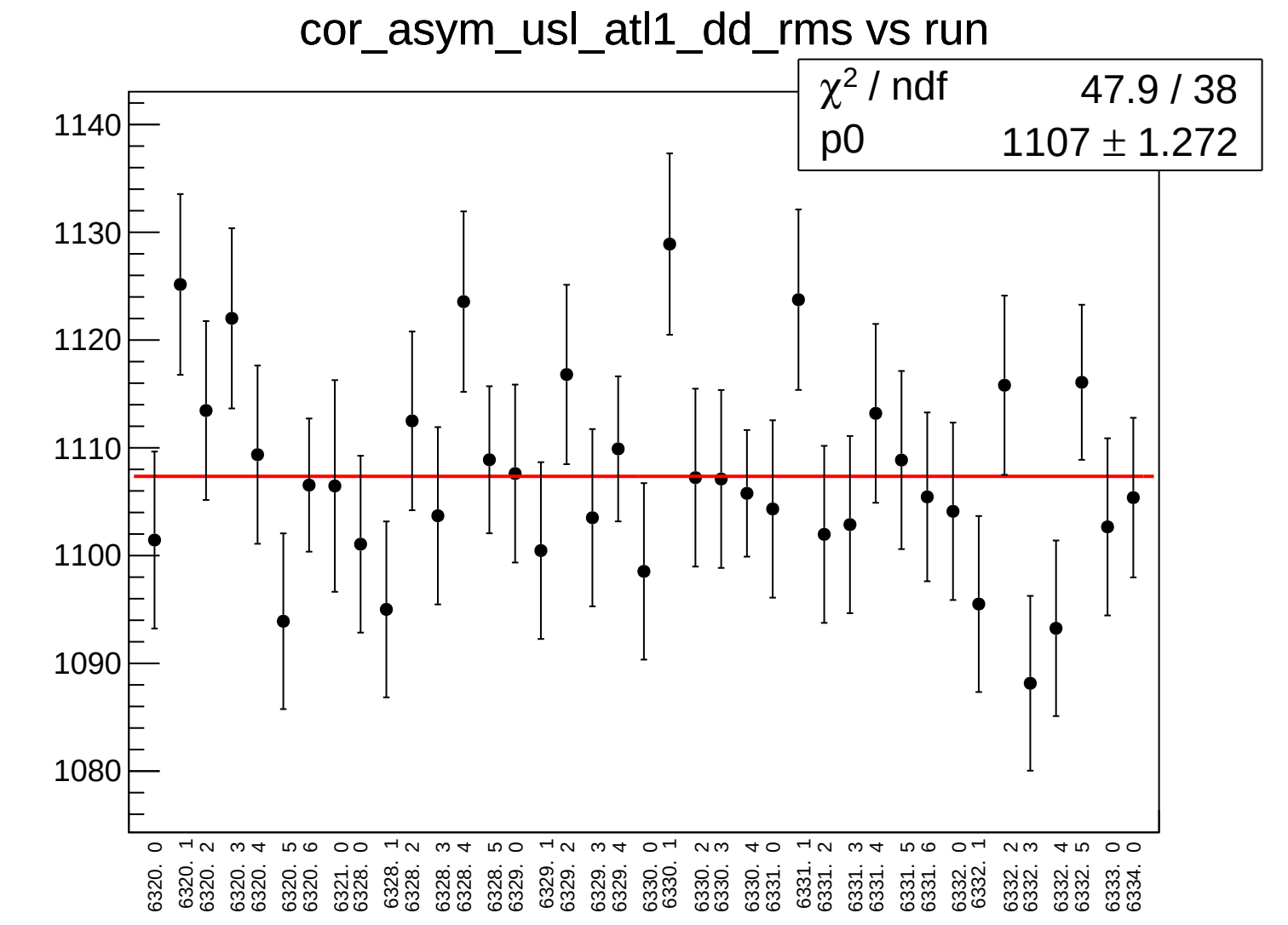
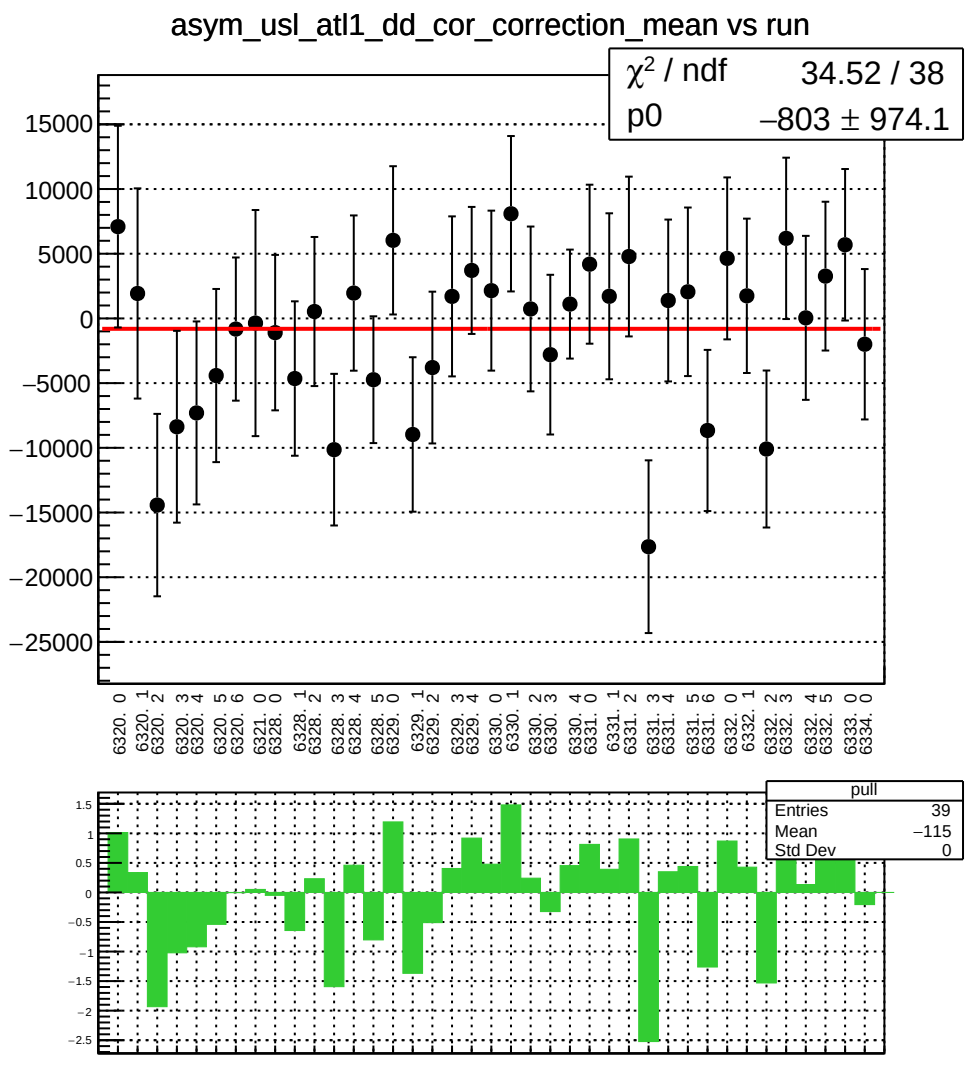
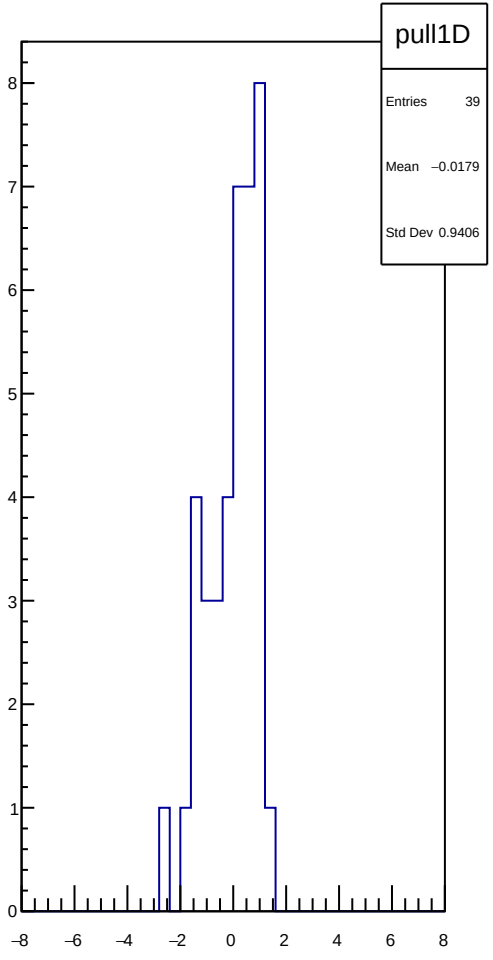
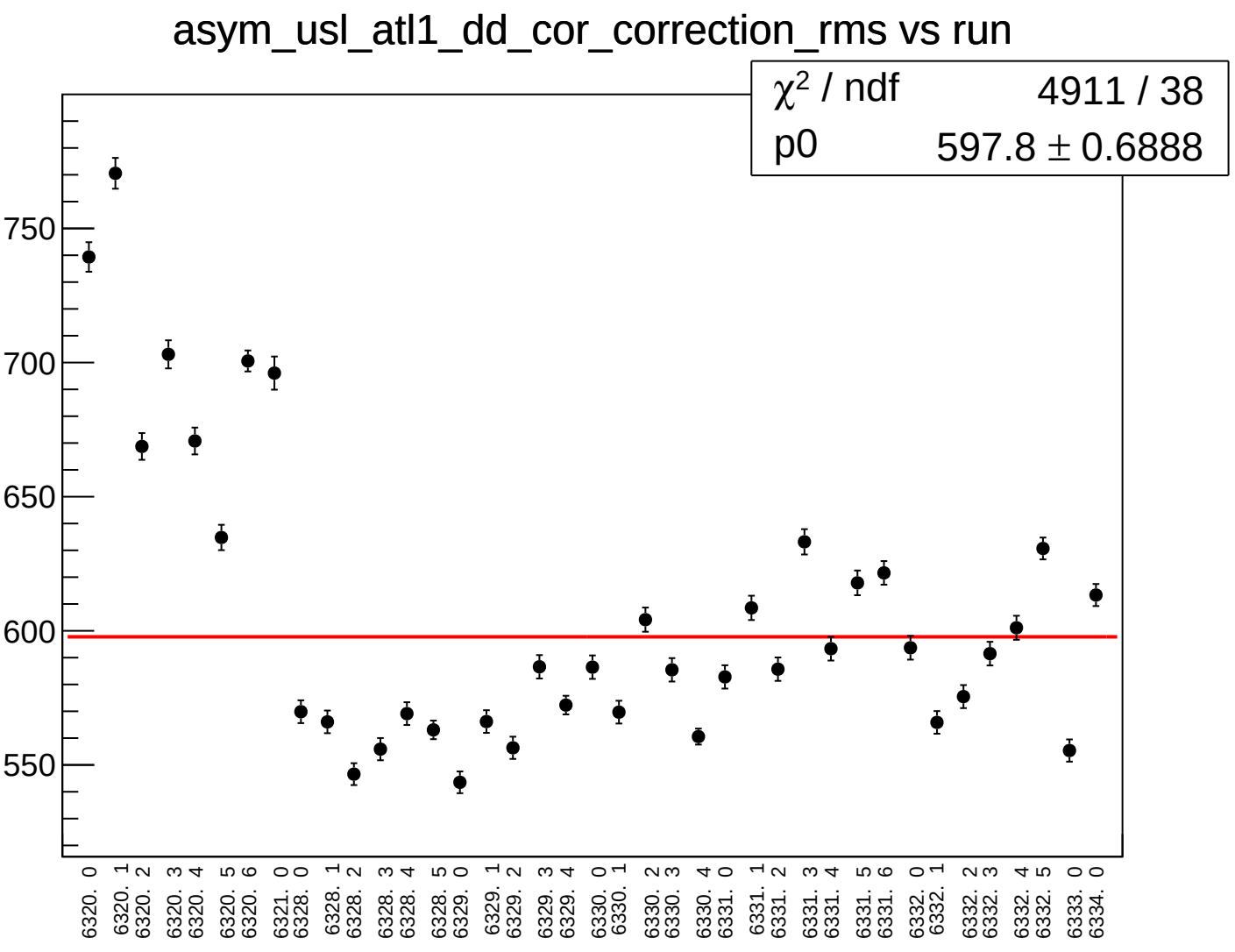
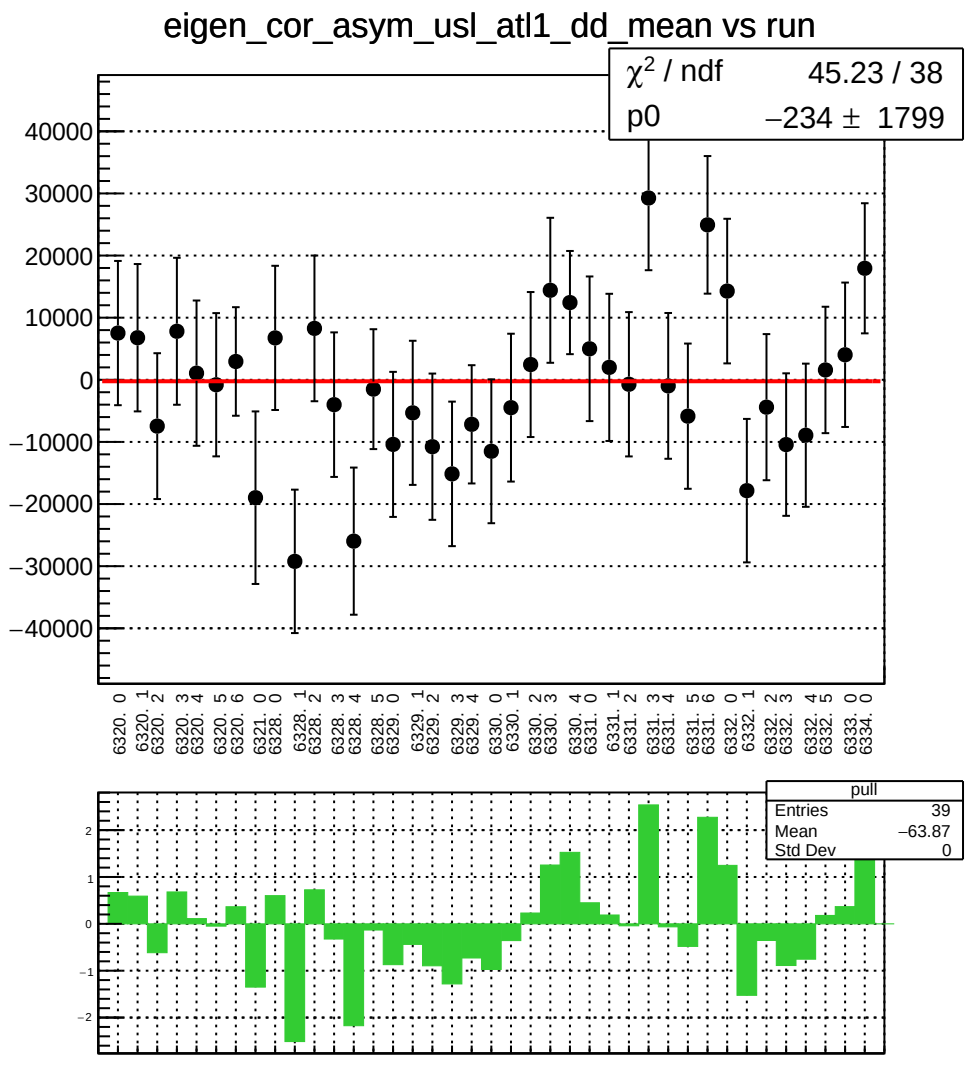
2
4
6
8

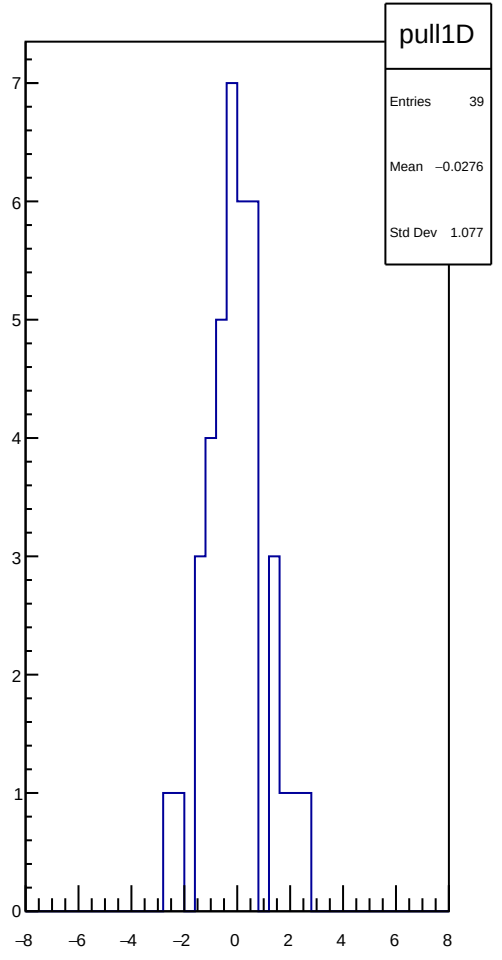

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 47.9 / 38
p0 1107 ± 1.272
1140
1130
1120
1110
1100
1090
1080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

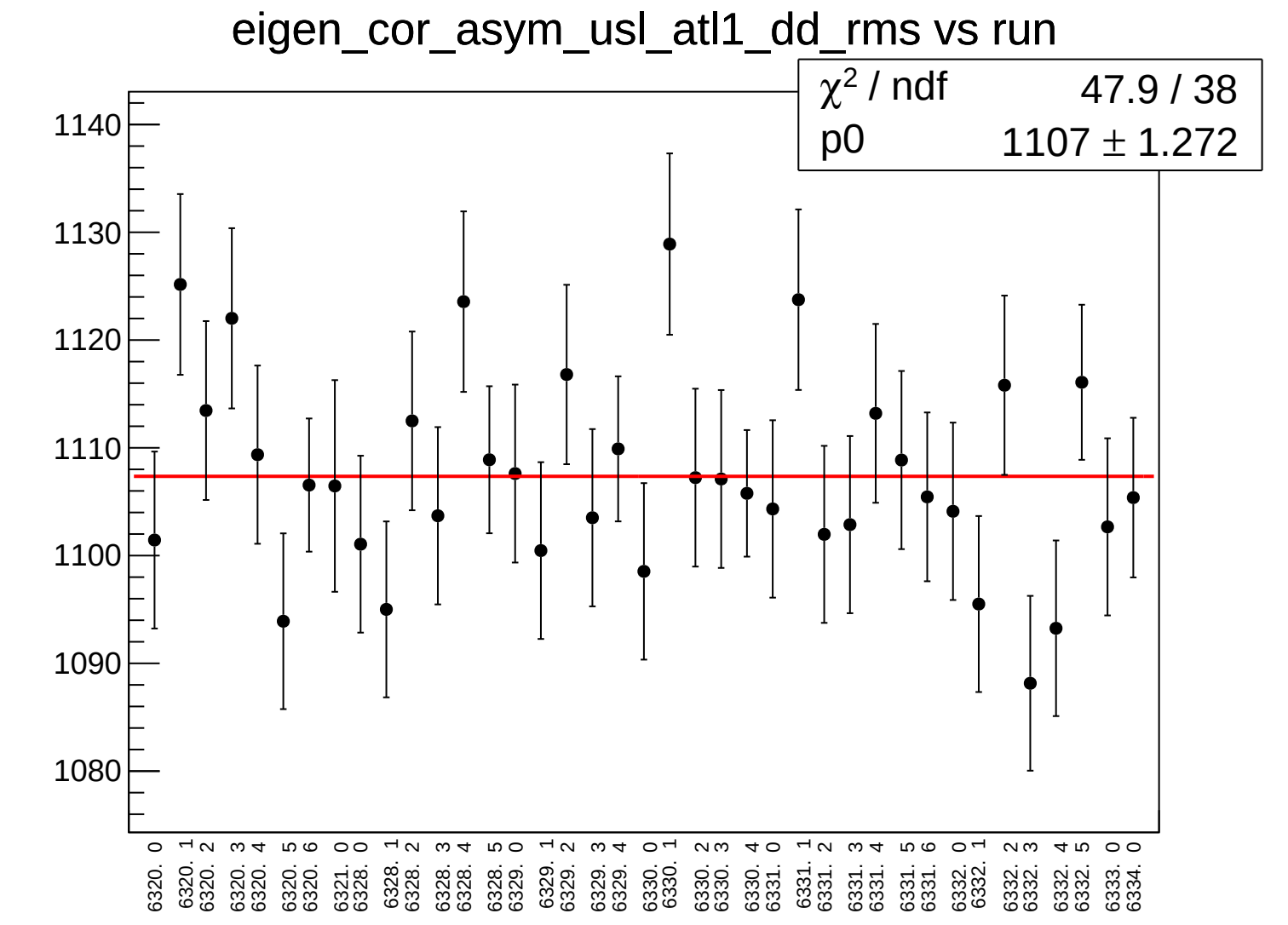

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 34.52 / 38
p0 −803 ± 974.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −115
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

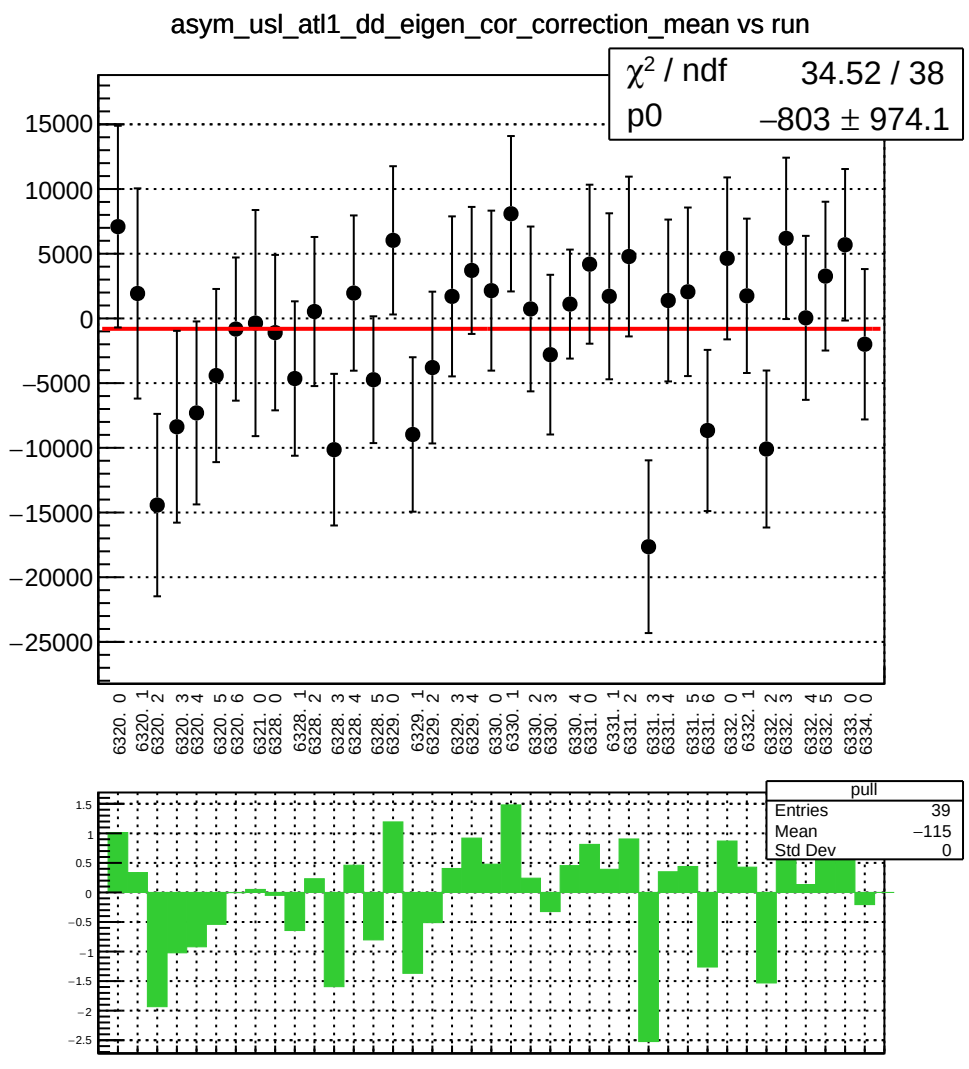

pull1D
Entries 39
Mean −0.0179
Std Dev 0.9406
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

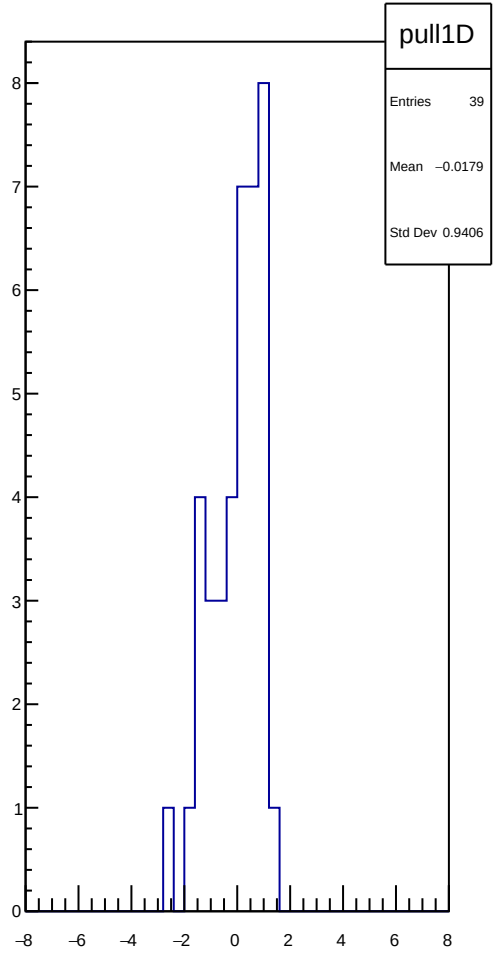

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4911 / 38
p0 597.8 ± 0.6888
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 45.23 / 38
p0 −234 ± 1799
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.87
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean −0.0276
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 47.9 / 38
p0 1107 ± 1.272
1140
1130
1120
1110
1100
1090
1080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.52 / 38
p0 −803 ± 974.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −115
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.0179
Std Dev 0.9406
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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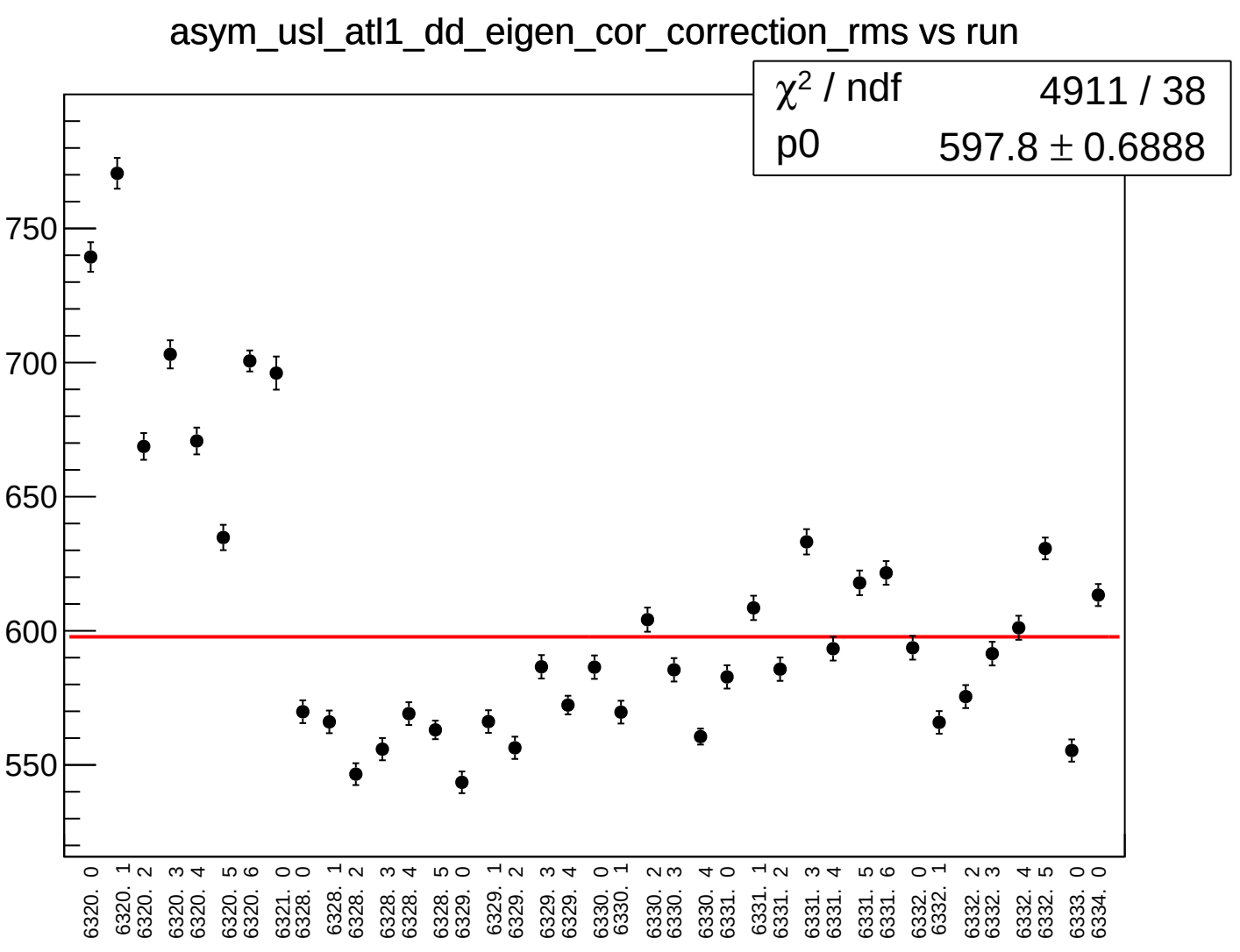
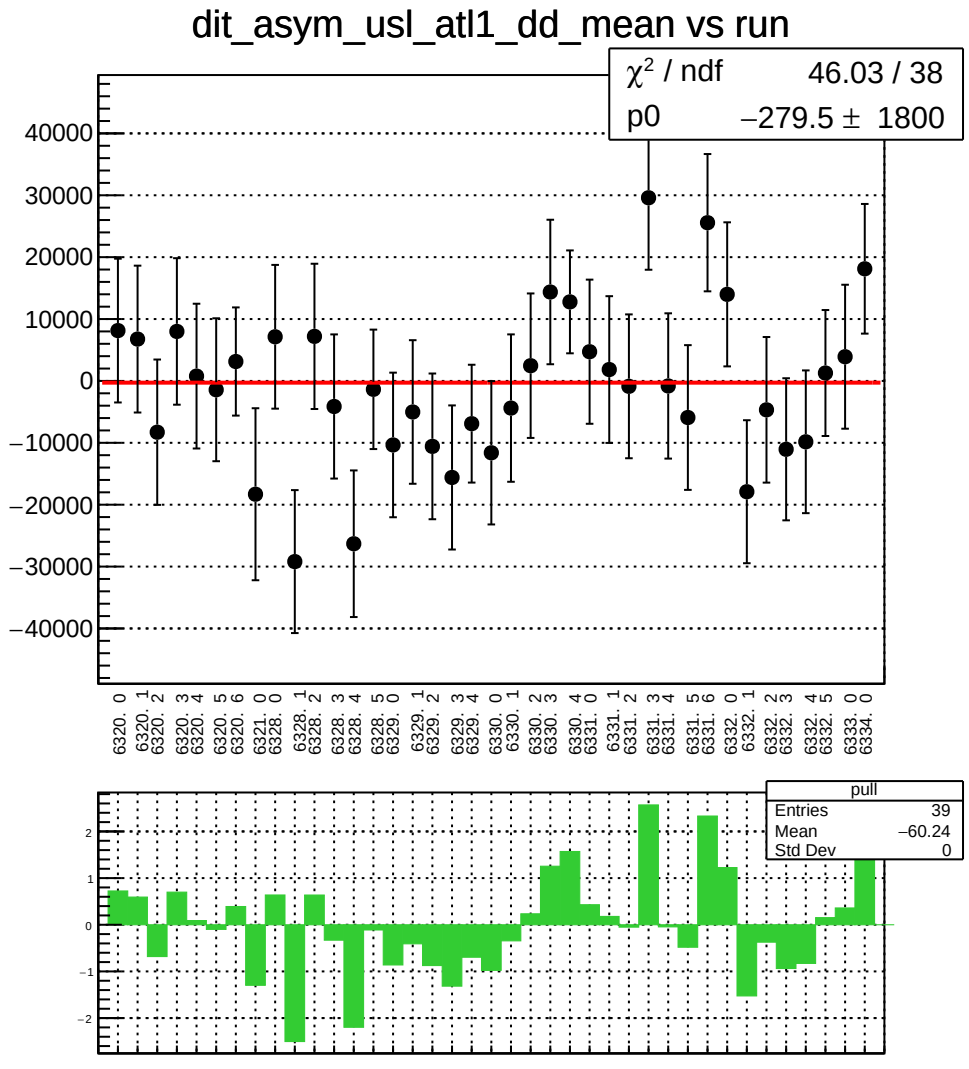
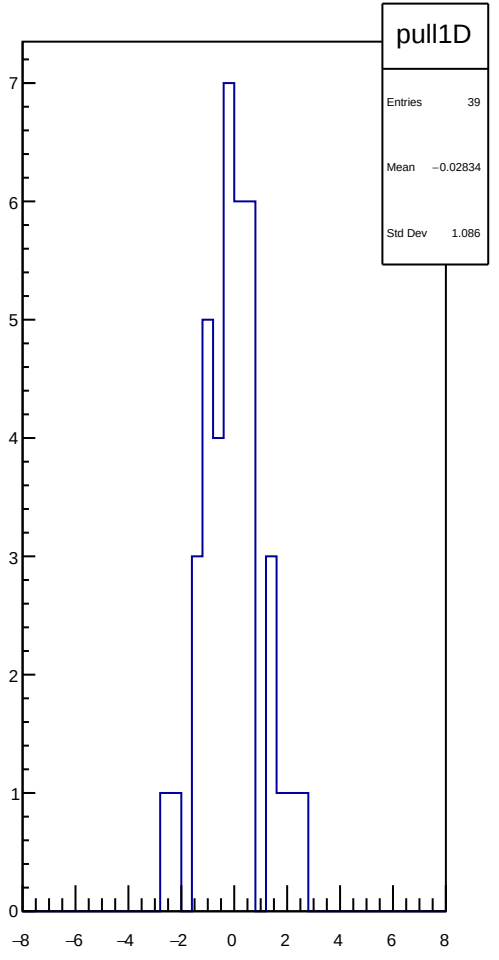
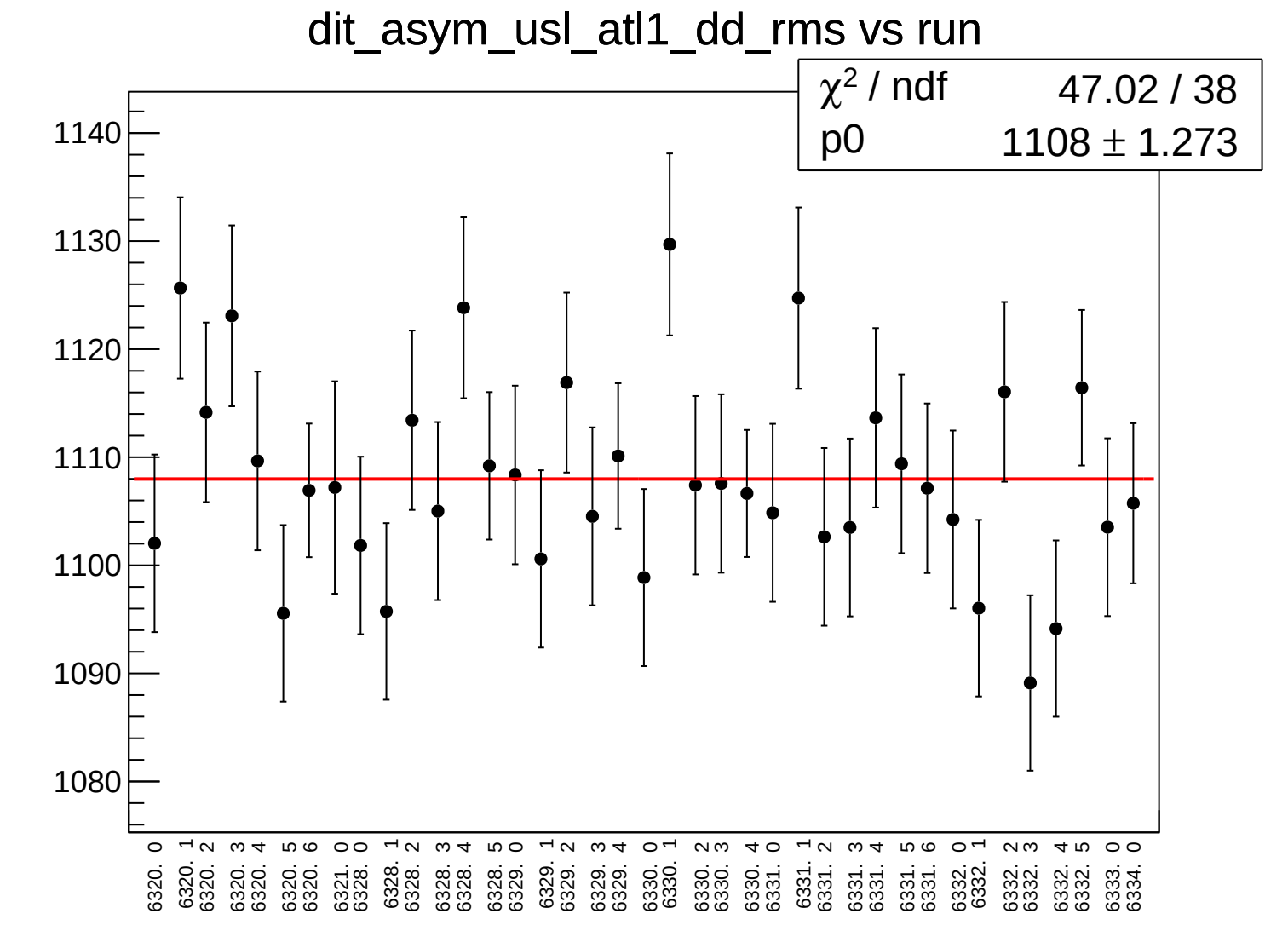
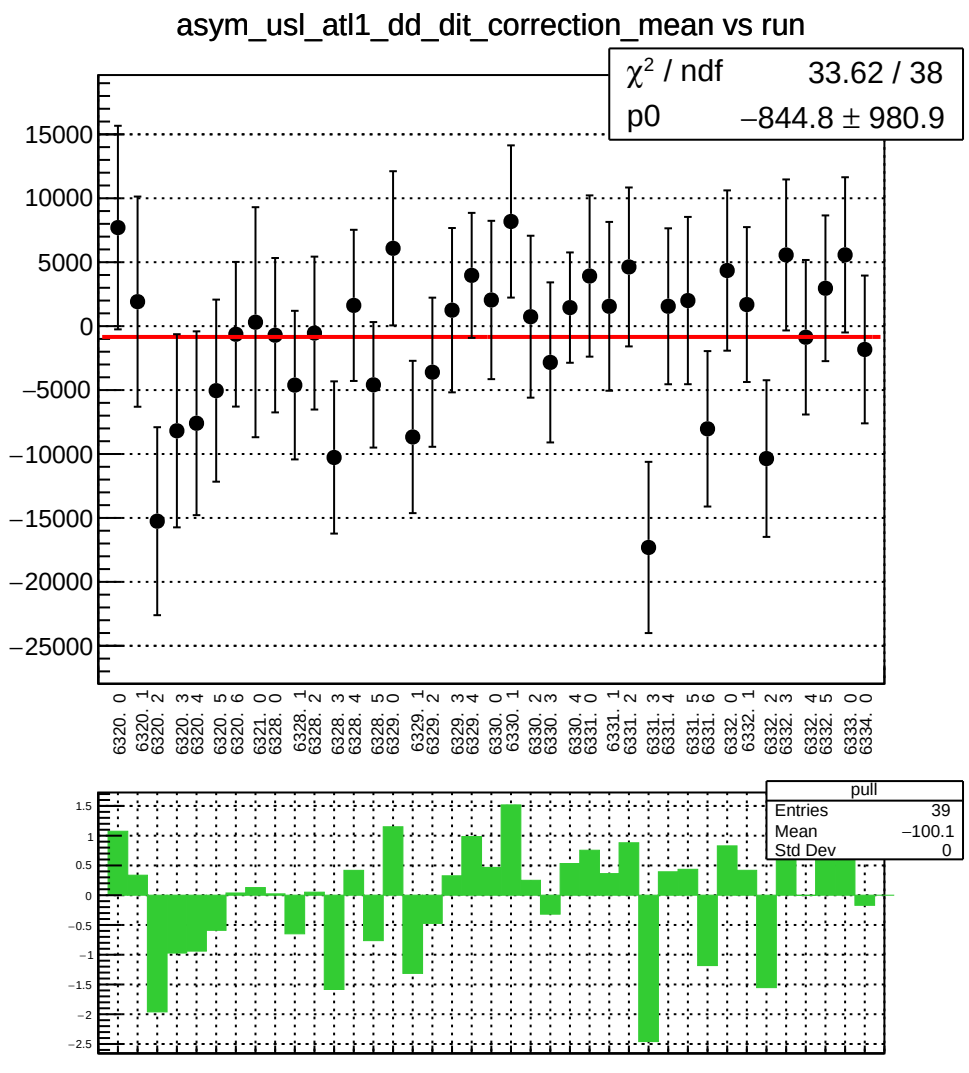
2
4
6
8

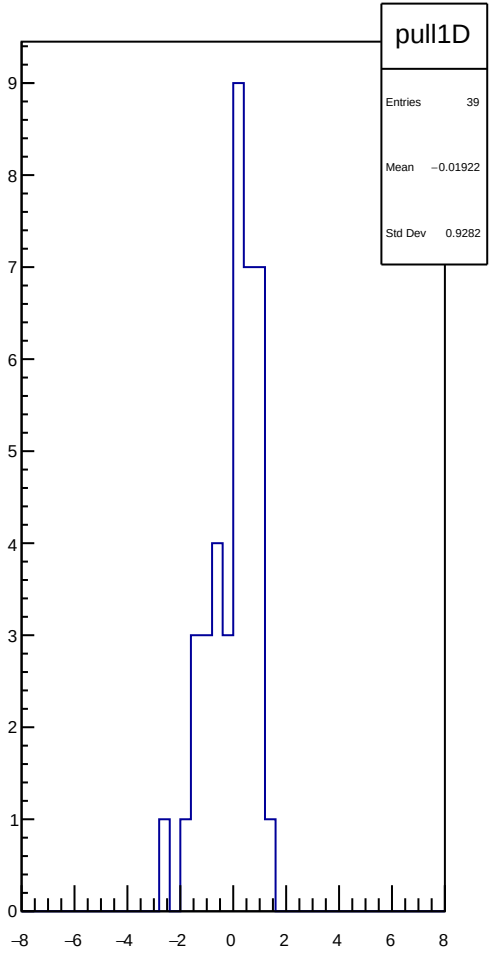

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4911 / 38
p0 597.8 ± 0.6888
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

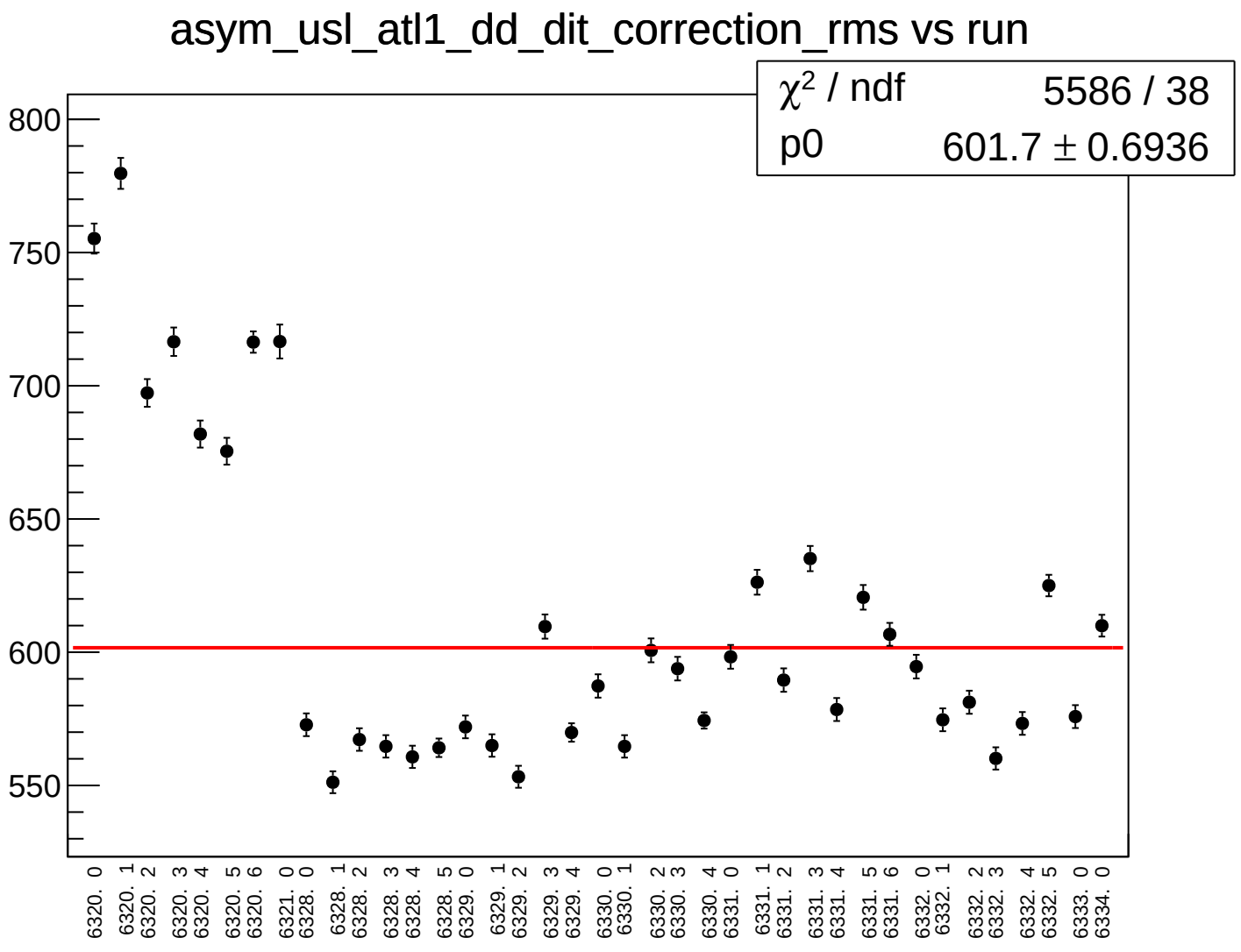

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 46.03 / 38
p0 −279.5 ± 1800
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.24
Std Dev 0
2
1
0
−1
−2

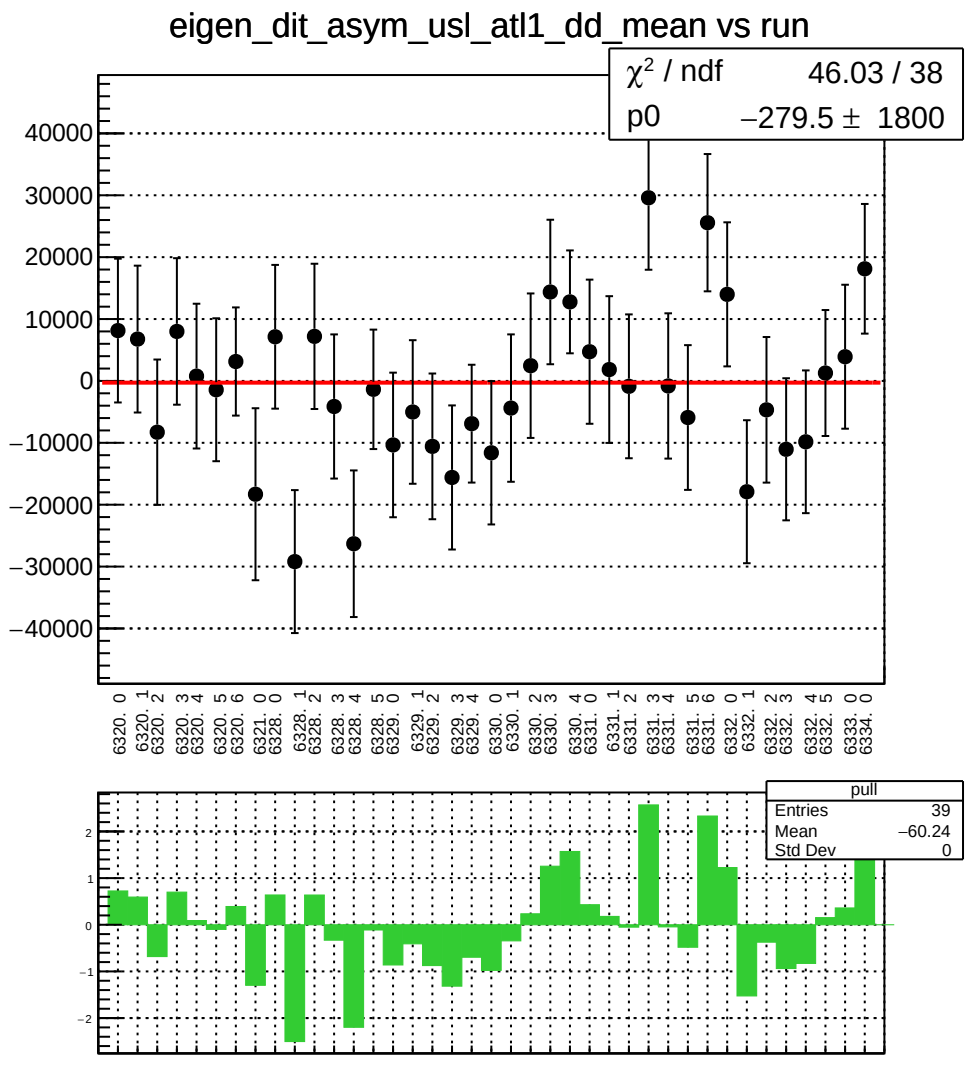

pull1D
Entries 39
Mean −0.02834
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

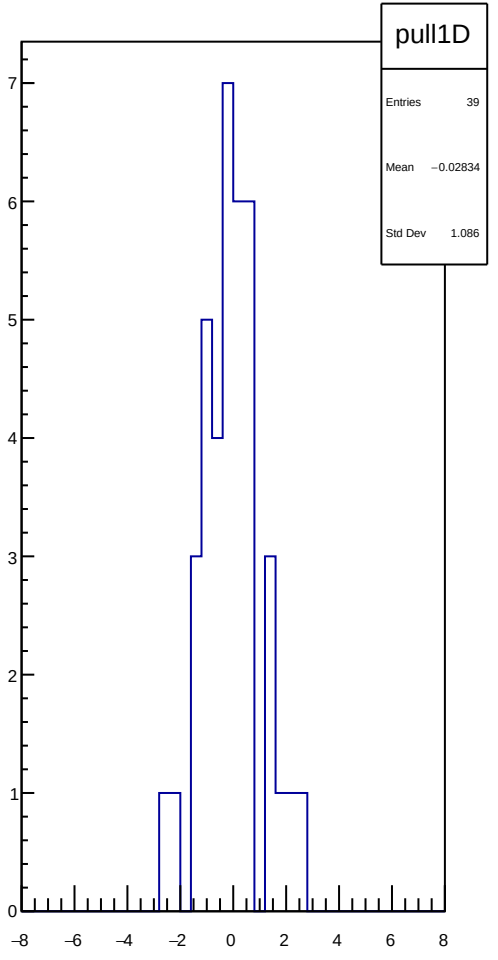

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 47.02 / 38
p0 1108 ± 1.273
1140
1130
1120
1110
1100
1090
1080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

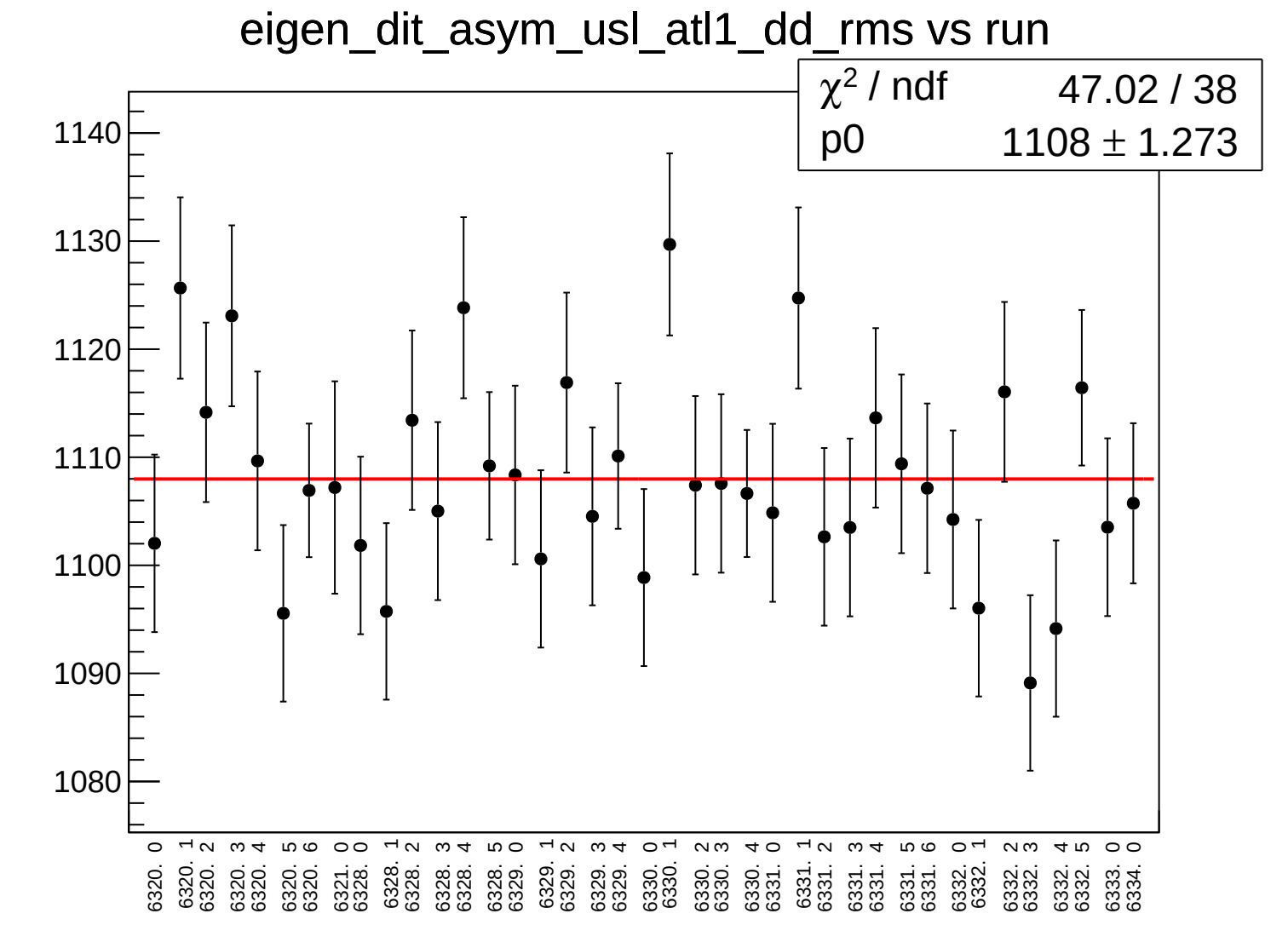

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 33.62 / 38
p0 −844.8 ± 980.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

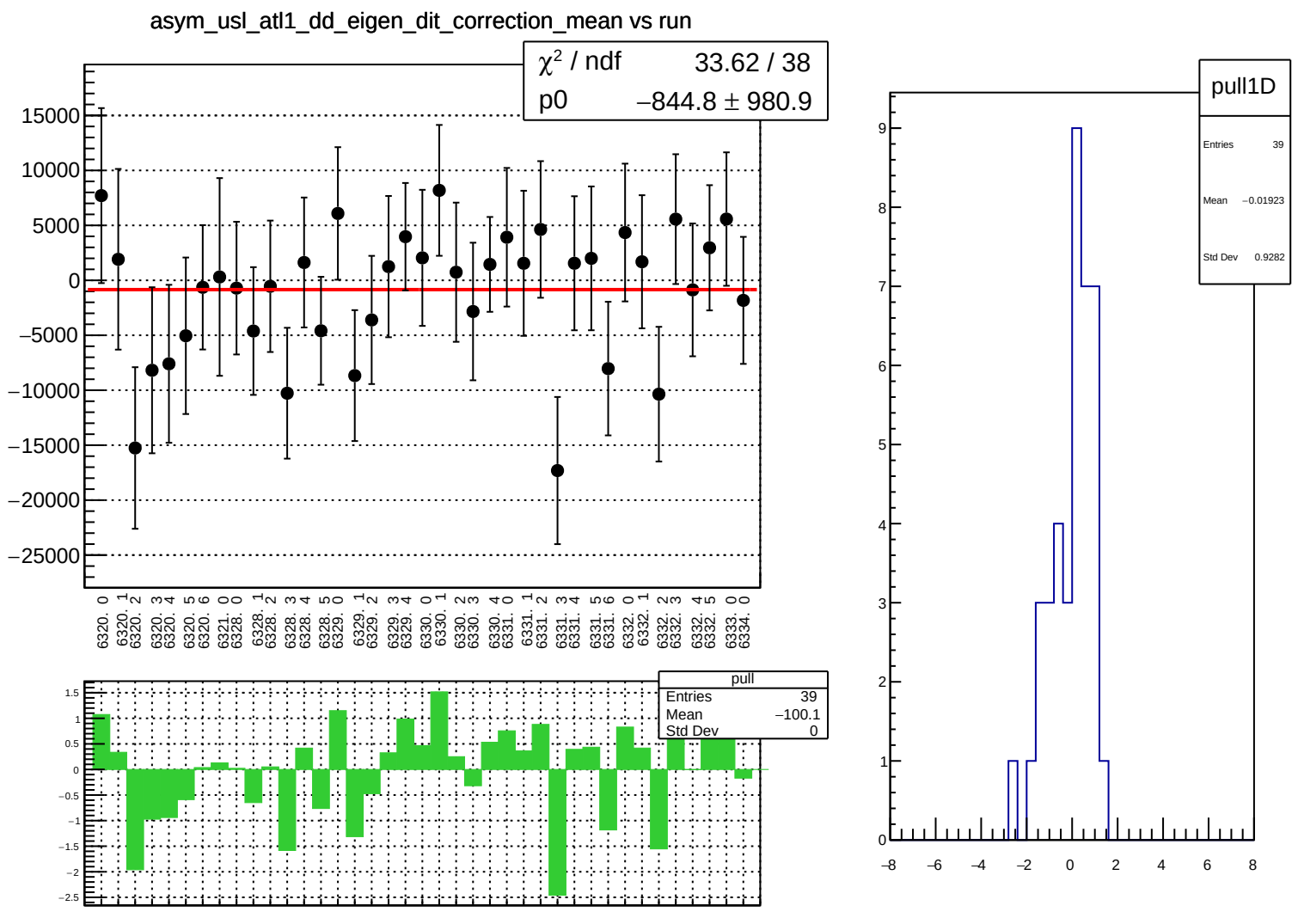

pull1D
Entries 39
Mean −0.01922
Std Dev 0.9282
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

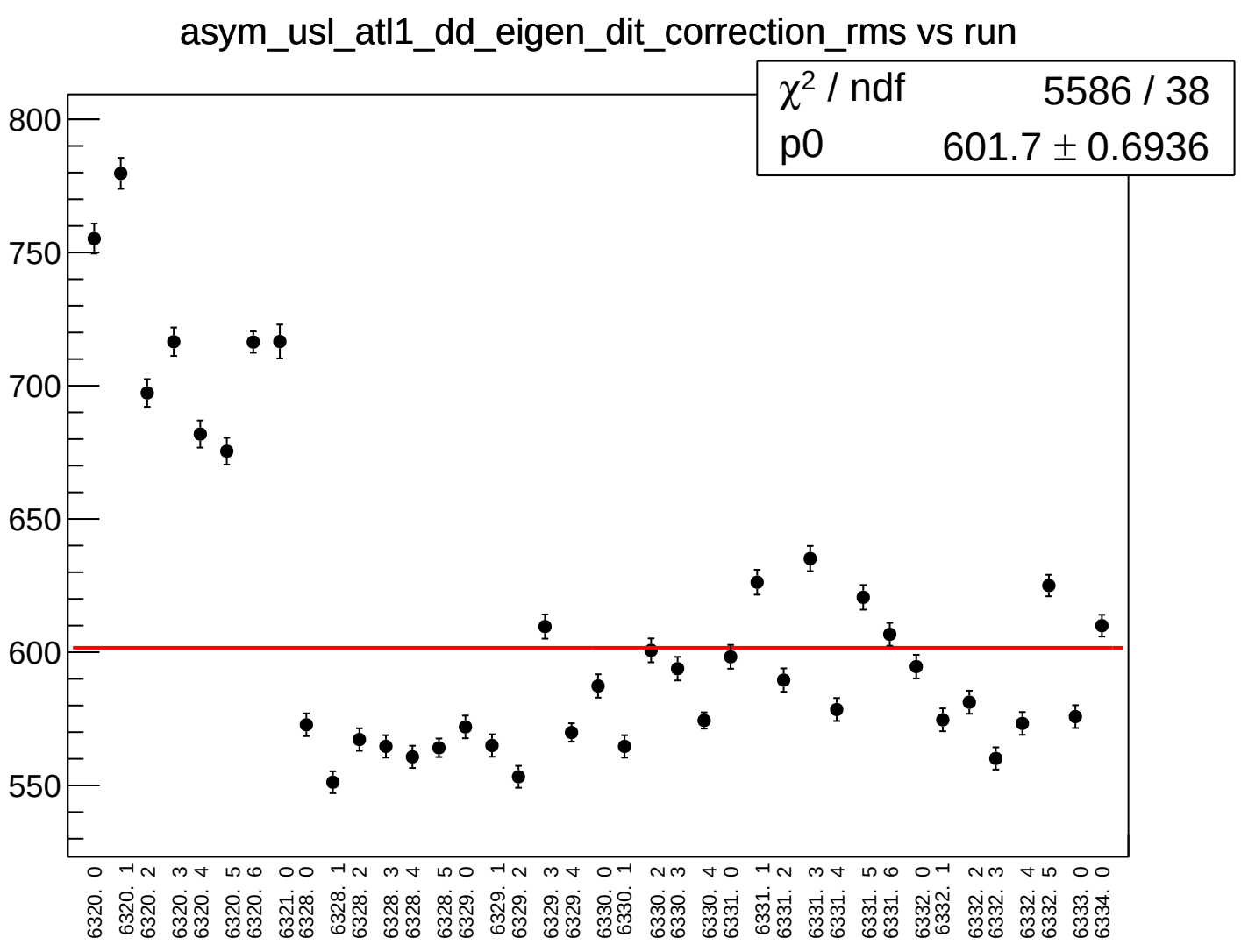

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 5586 / 38
p0 601.7 ± 0.6936
800
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

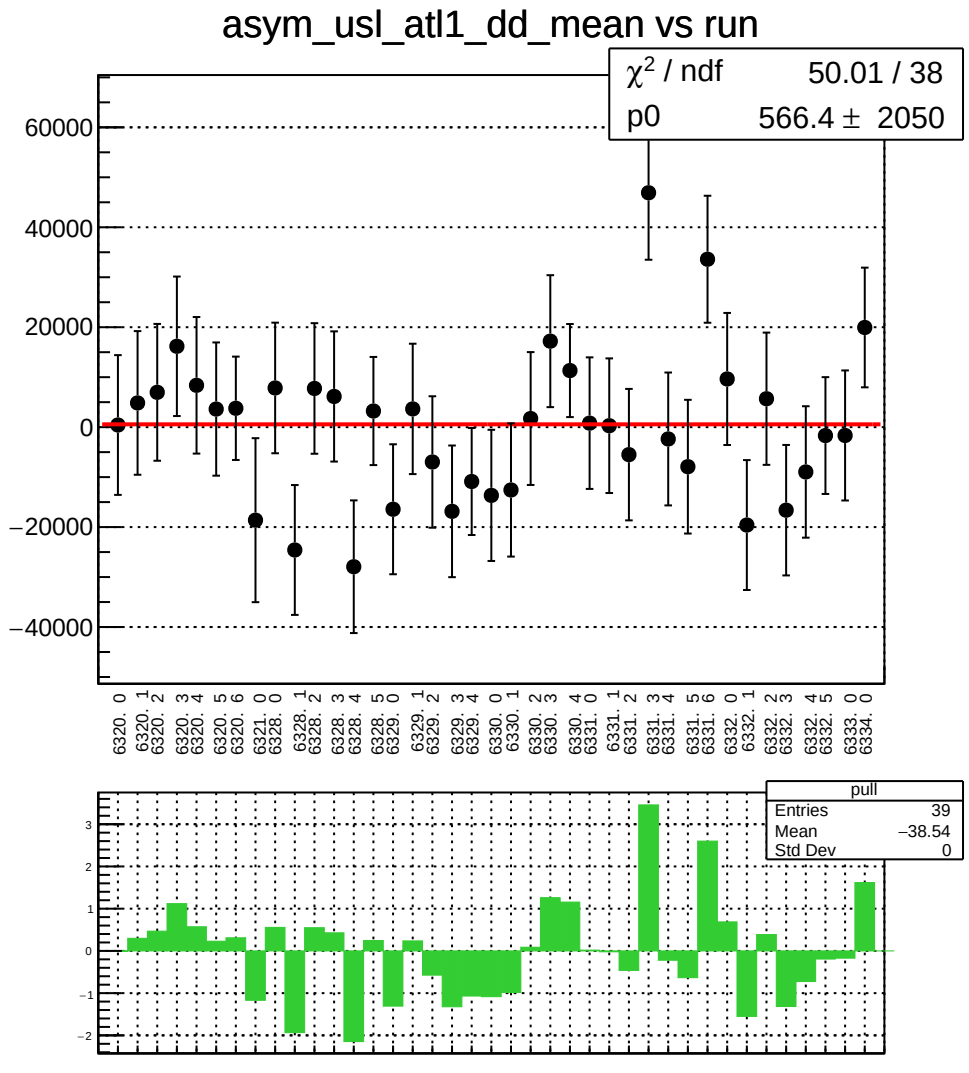

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 46.03 / 38
p0 −279.5 ± 1800
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.24
Std Dev 0
2
1
0
−1
−2

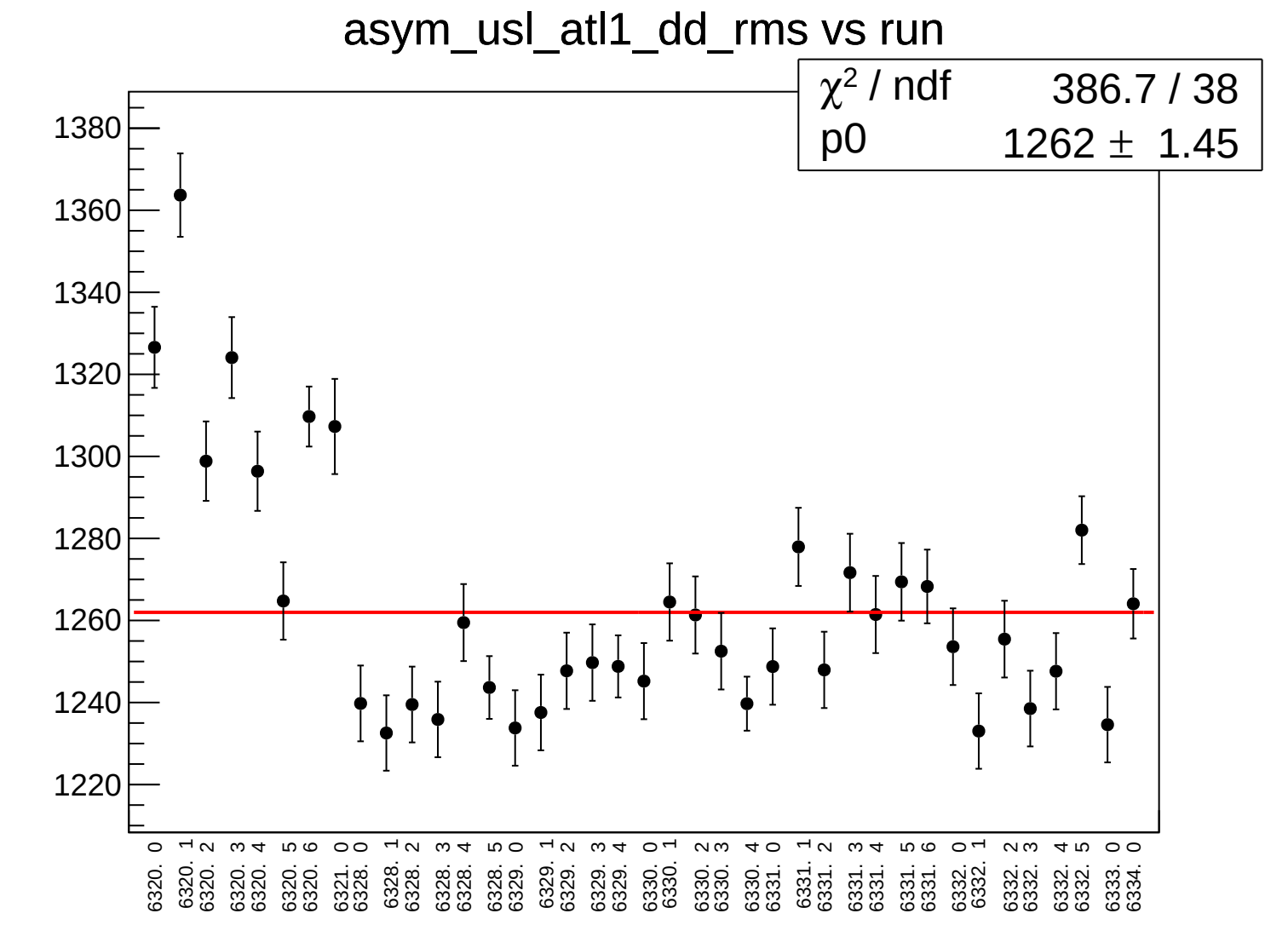

pull1D
Entries 39
Mean −0.02834
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

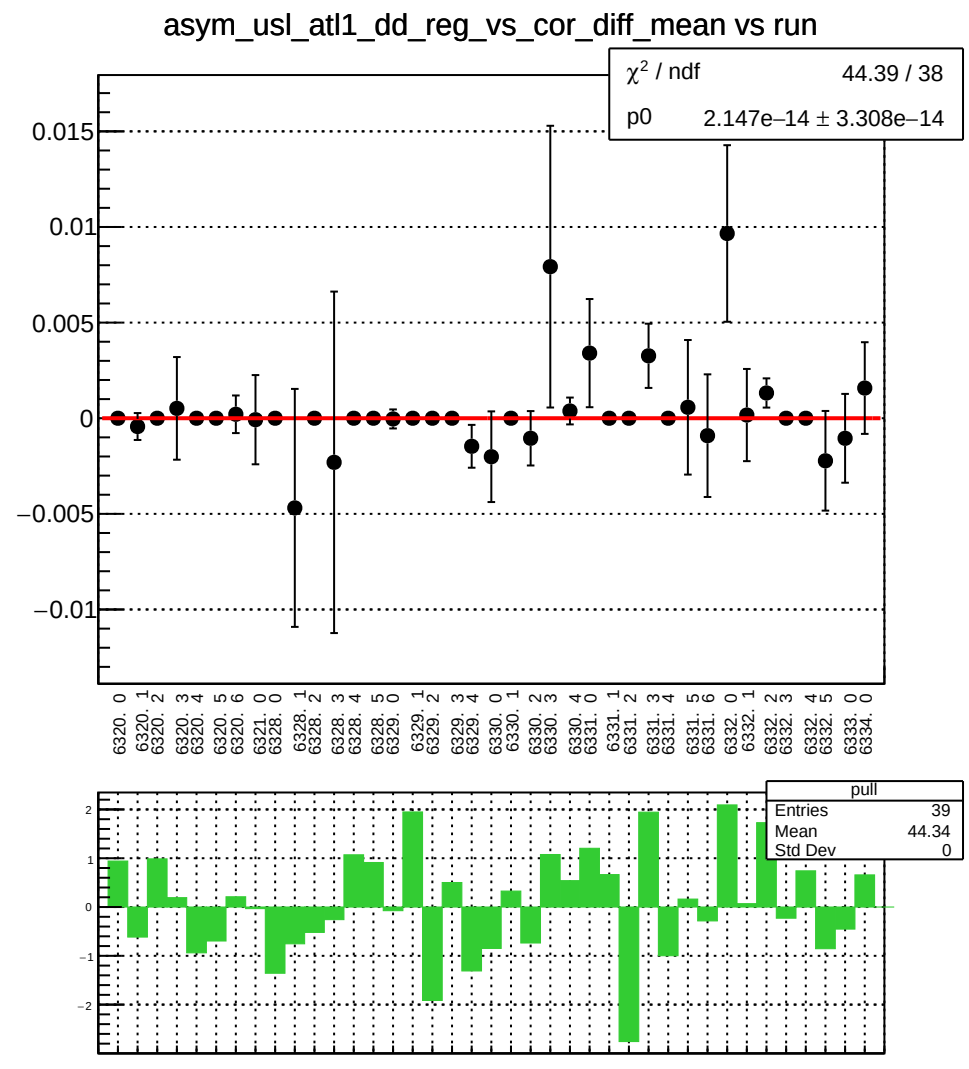

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 47.02 / 38
p0 1108 ± 1.273
1140
1130
1120
1110
1100
1090
1080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

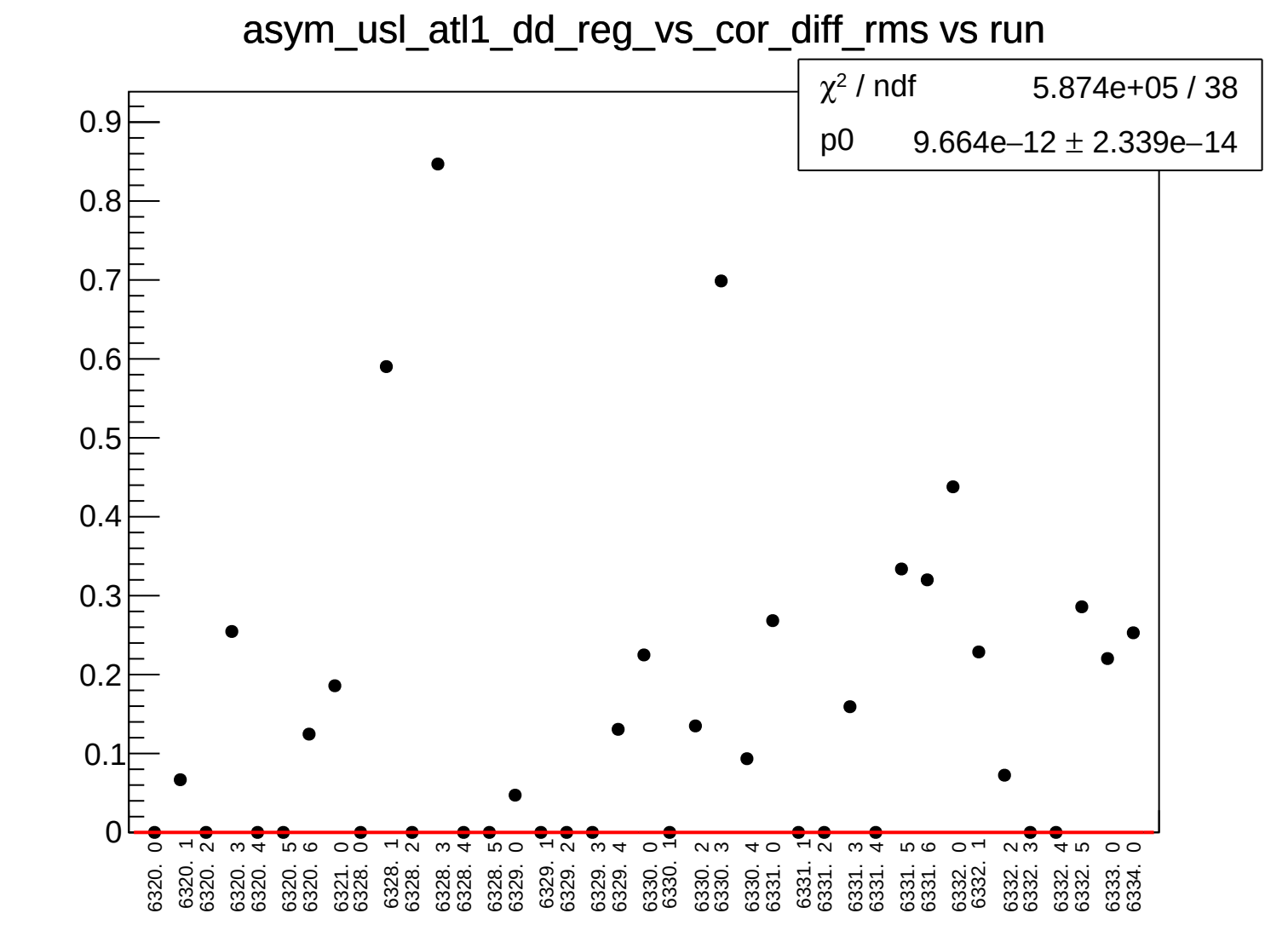

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.62 / 38
p0 −844.8 ± 980.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −100.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.01923
Std Dev 0.9282
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

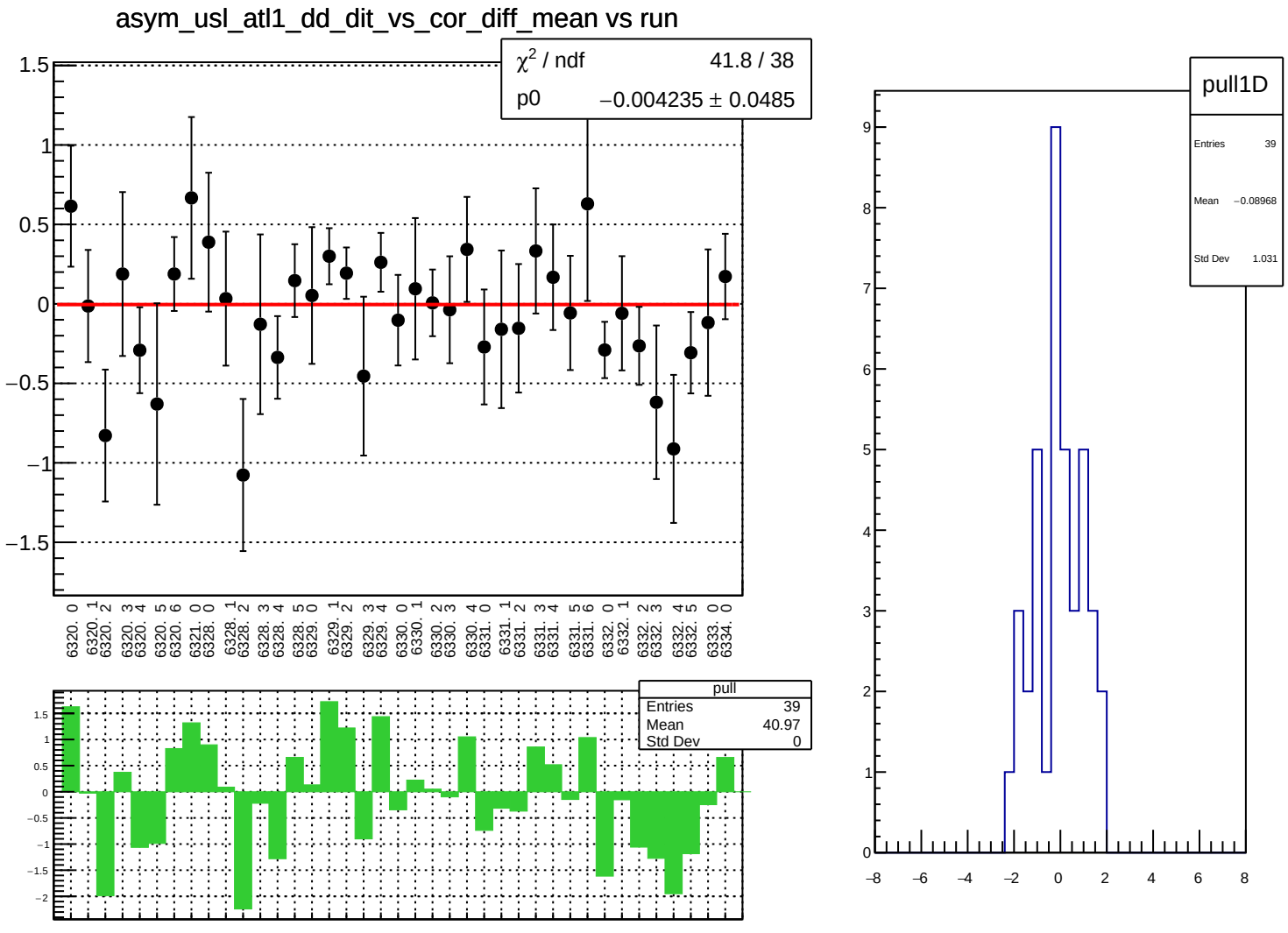

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5586 / 38
p0 601.7 ± 0.6936
800
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

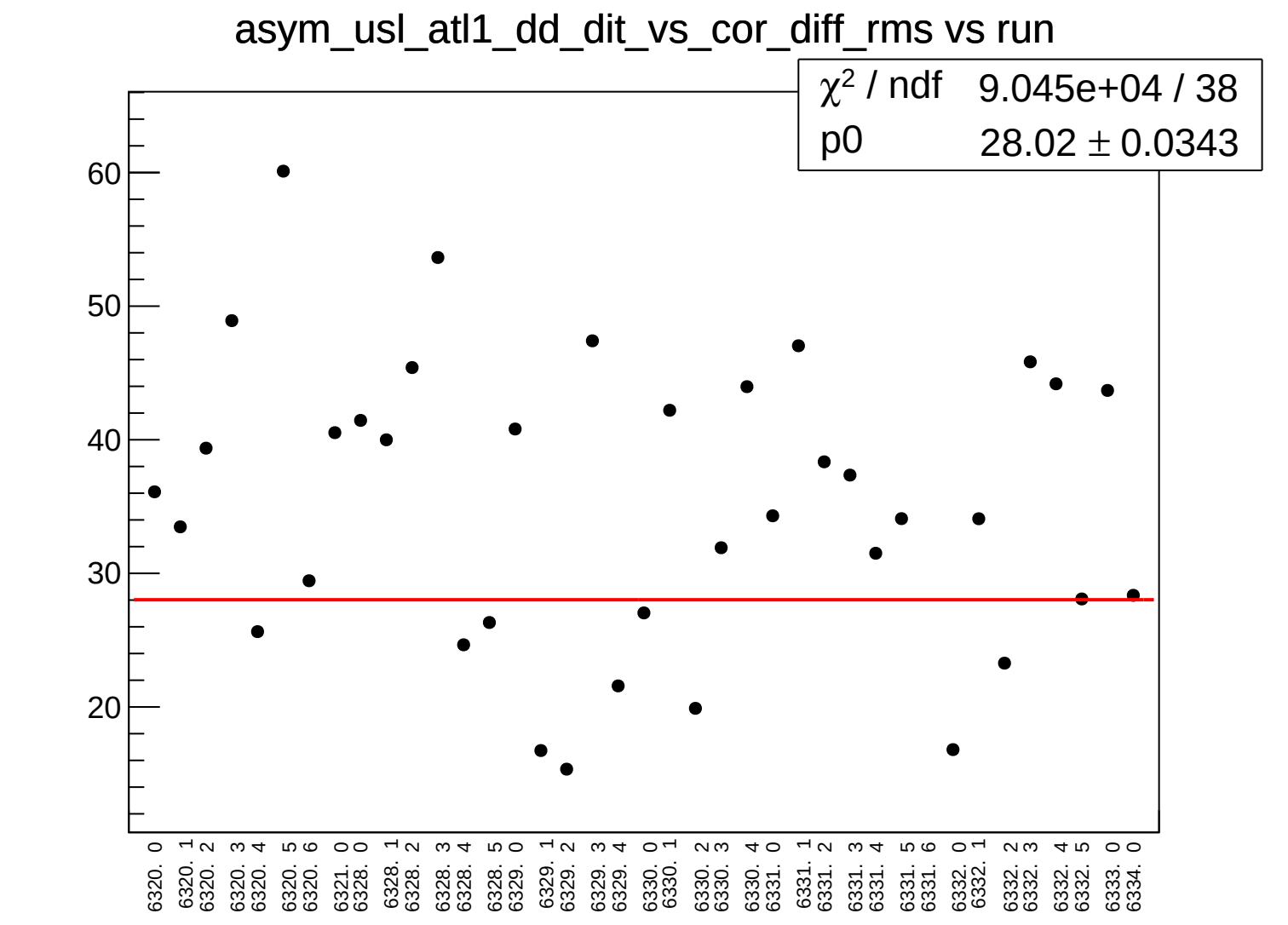

asym_usl_atl1_dd_mean vs run
χ² / ndf 50.01 / 38
p0 566.4 ± 2050
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01566
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

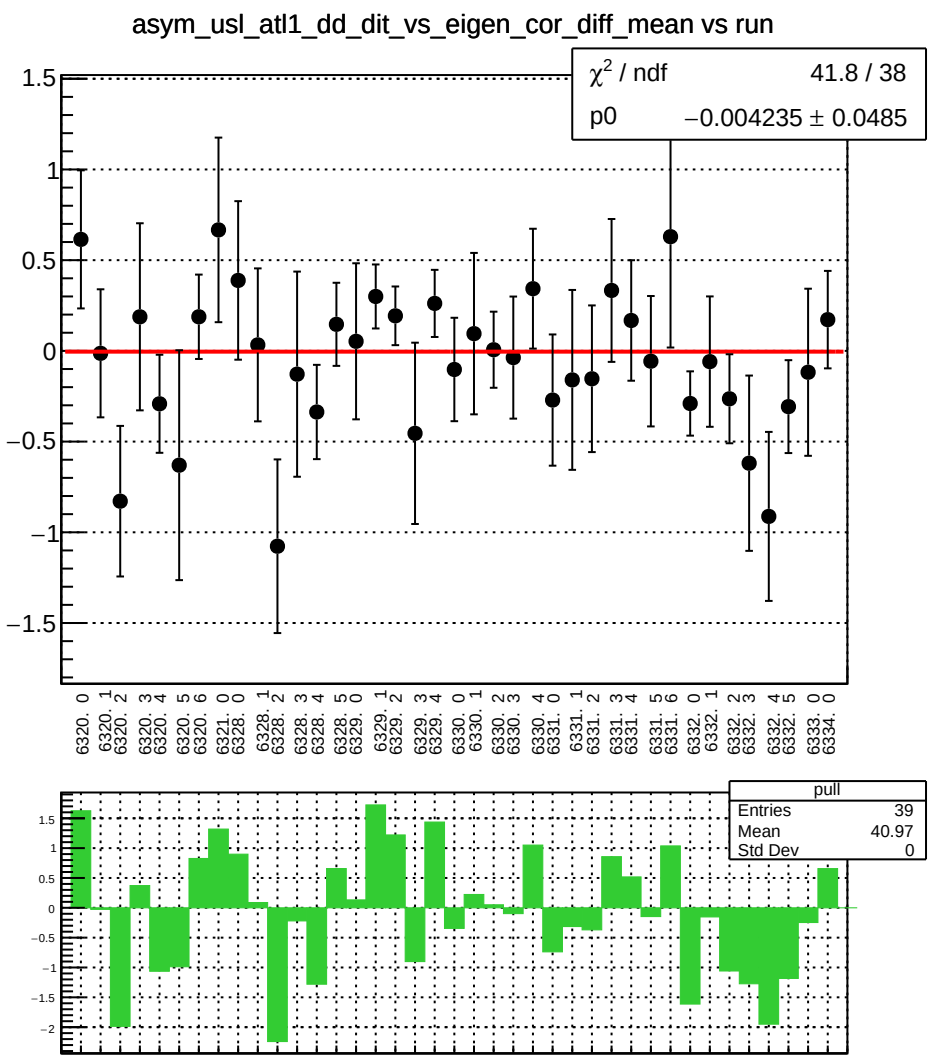

asym_usl_atl1_dd_rms vs run
χ² / ndf 386.7 / 38
p0 1262 ± 1.45
1380
1360
1340
1320
1300
1280
1260
1240
1220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

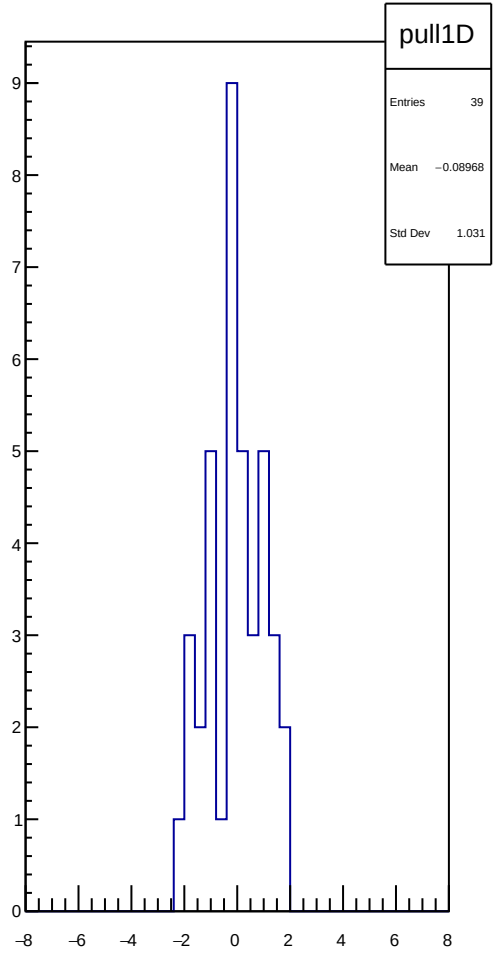

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 44.39 / 38
p0 2.147e−14 ± 3.308e−14
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 44.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0601
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

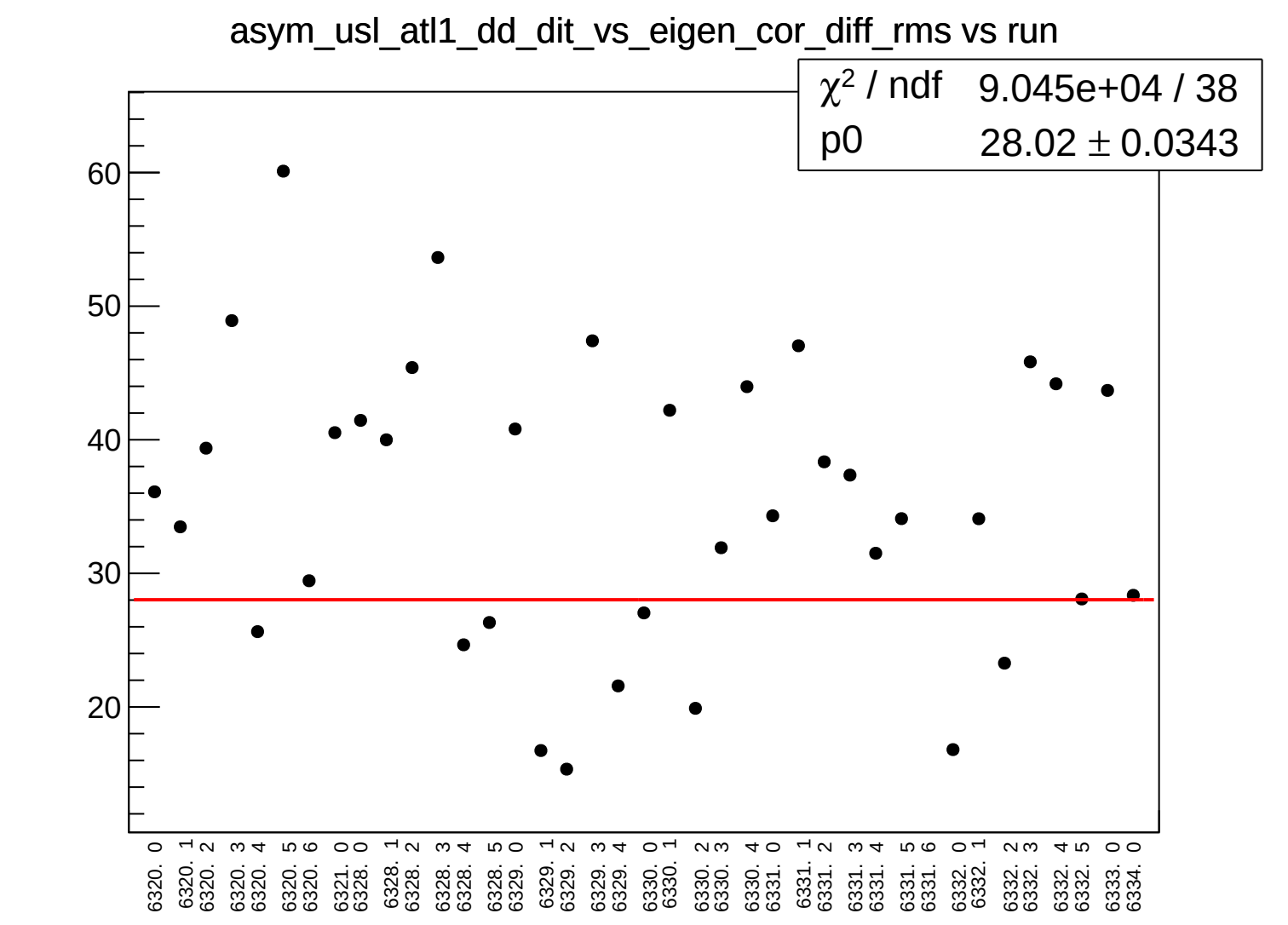

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.874e+05 / 38
p0 9.664e−12 ± 2.339e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

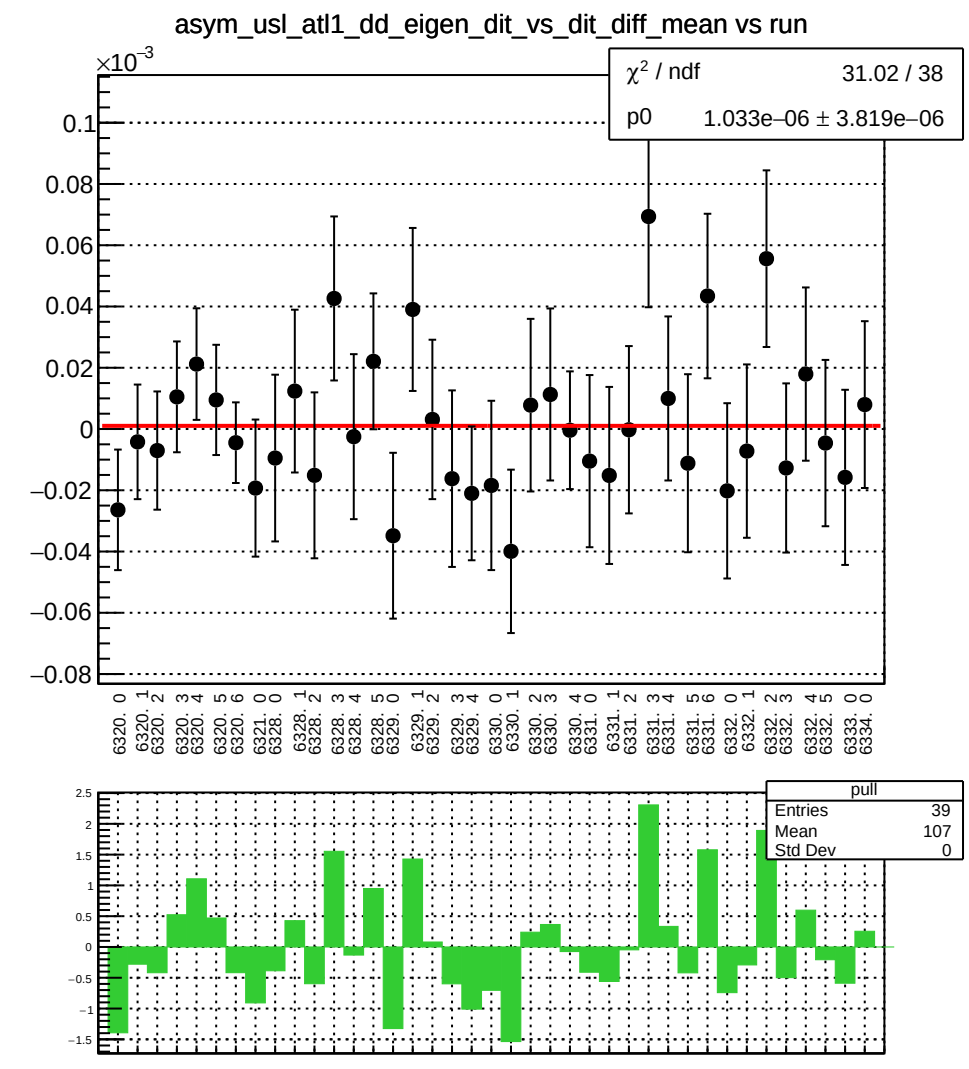

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.8 / 38
p0 −0.004235 ± 0.0485
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.97
Std Dev 0
pull1D
Entries 39
Mean −0.08968
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

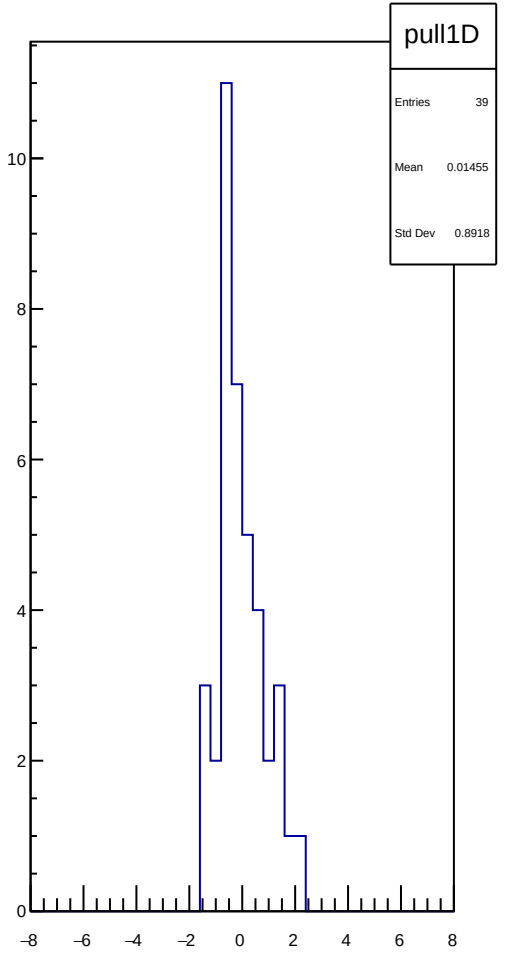

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 38
p0 28.02 ± 0.0343
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

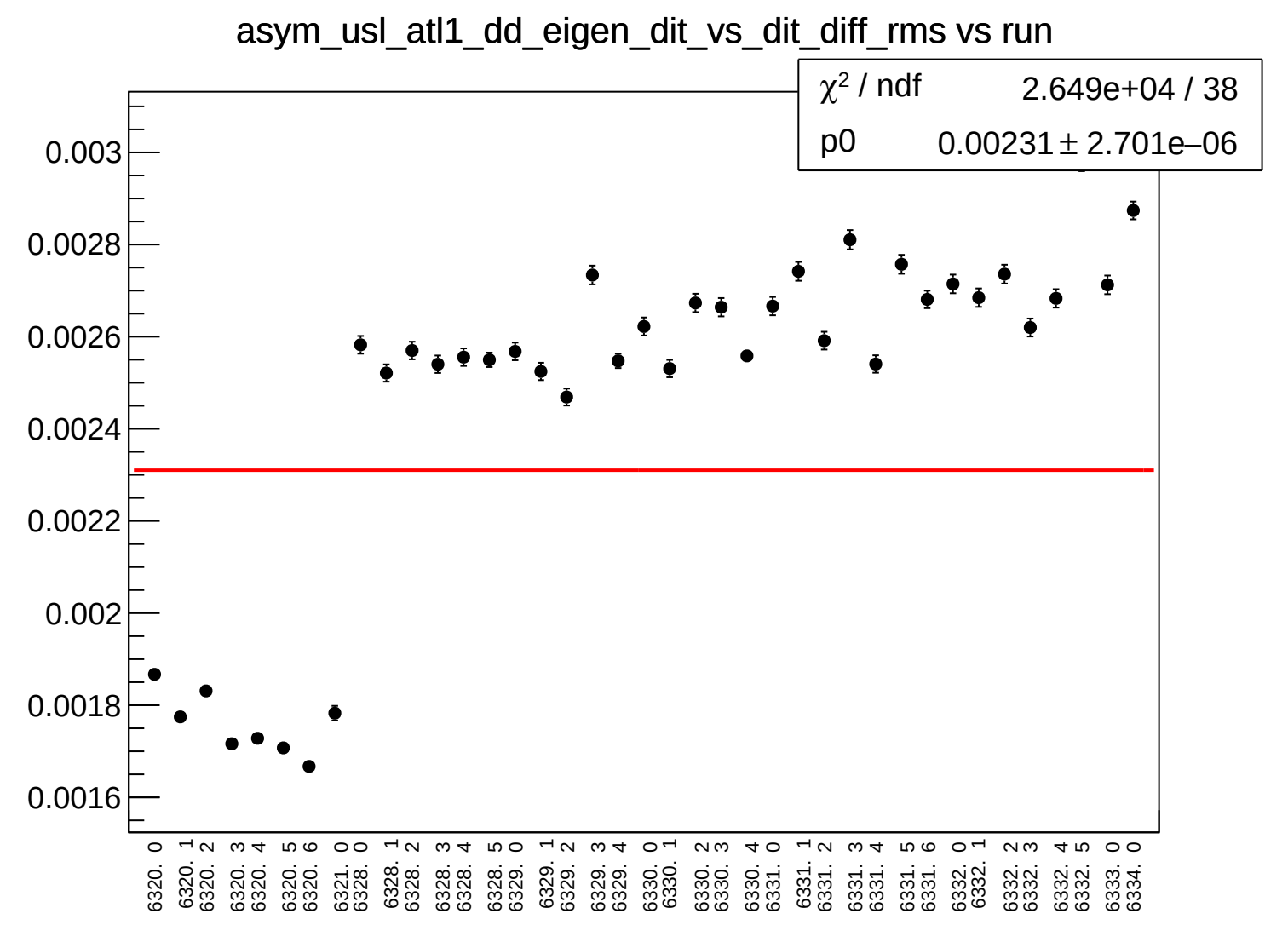

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.8 / 38
p0 −0.004235 ± 0.0485
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

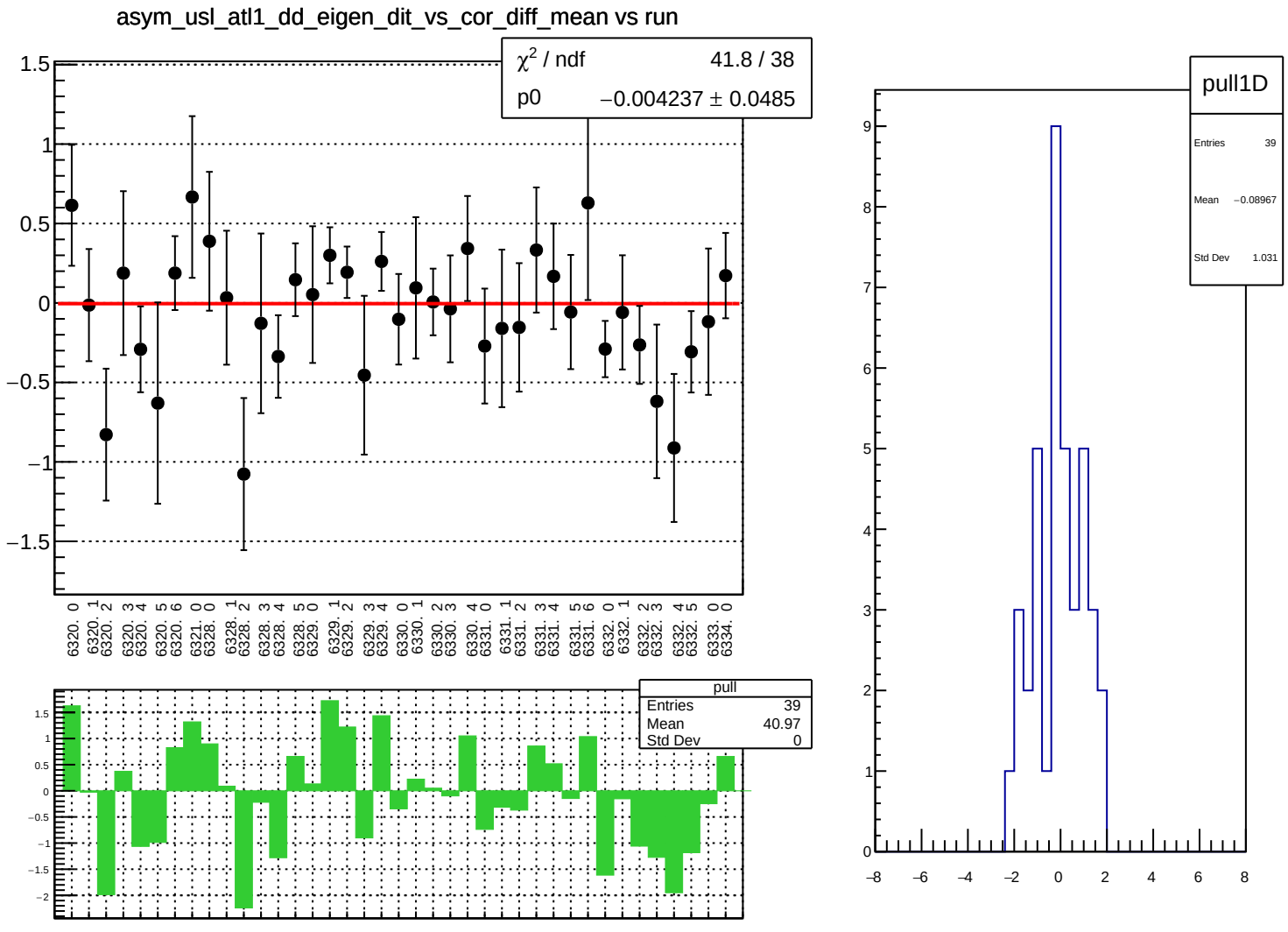

pull1D
Entries 39
Mean −0.08968
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

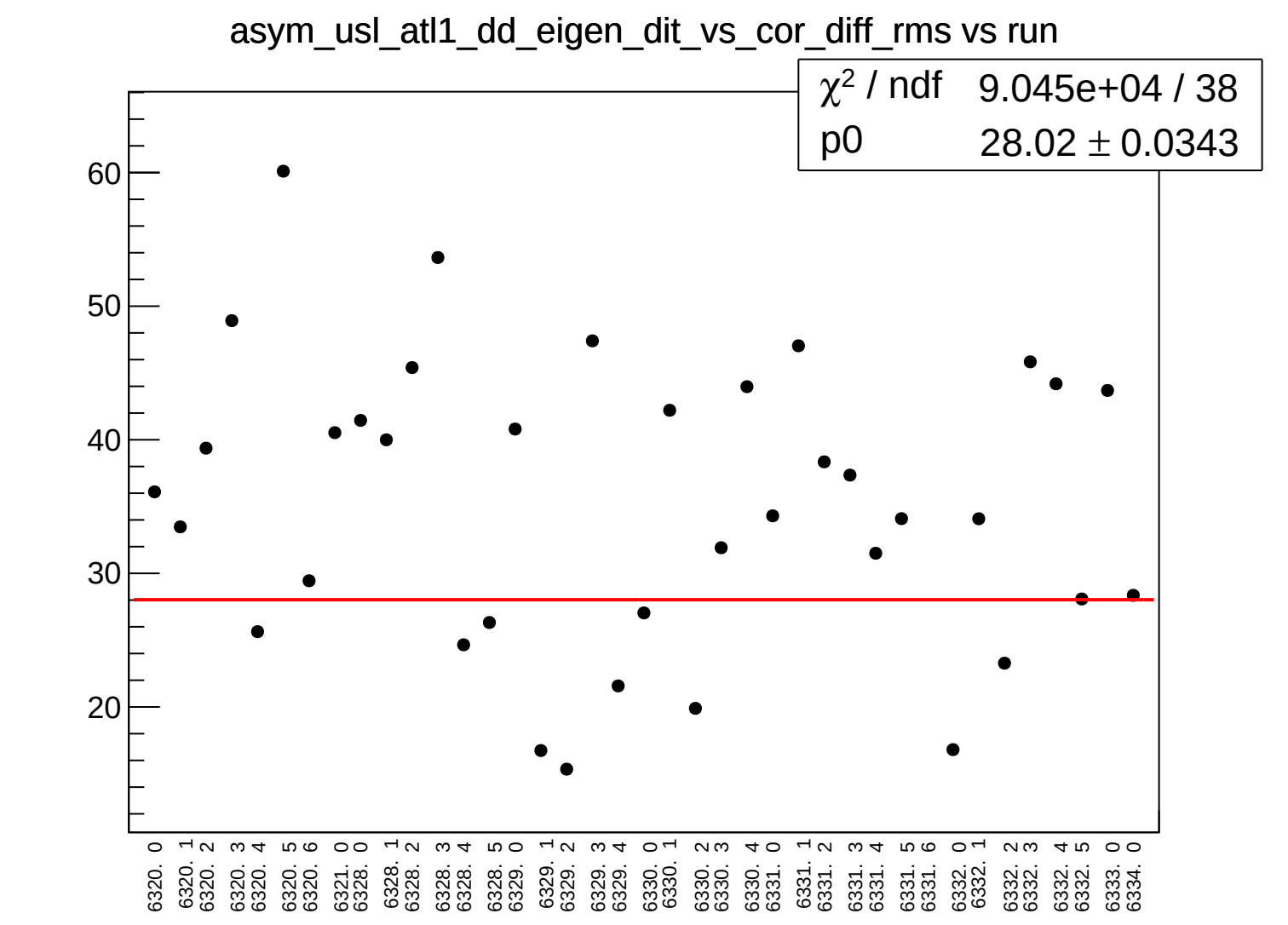

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 38
p0 28.02 ± 0.0343
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

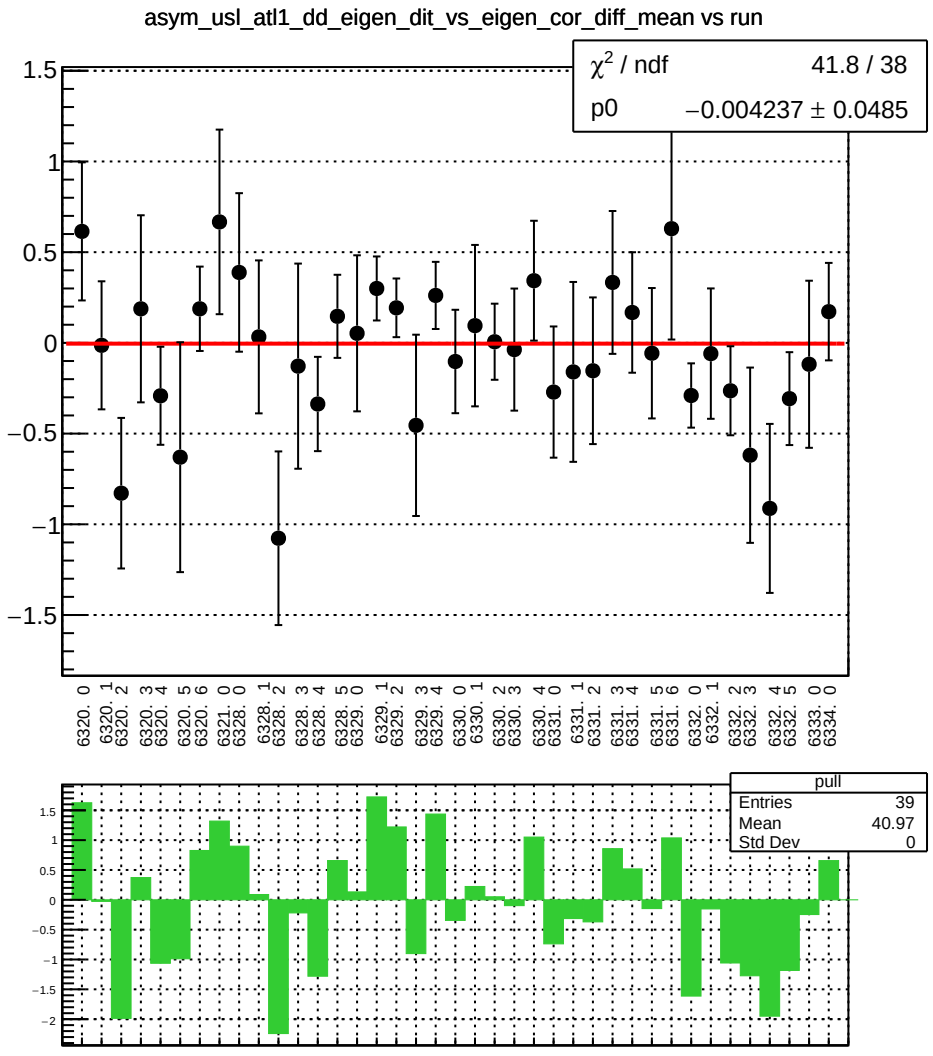

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.02 / 38
p0 1.033e−06 ± 3.819e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 107
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

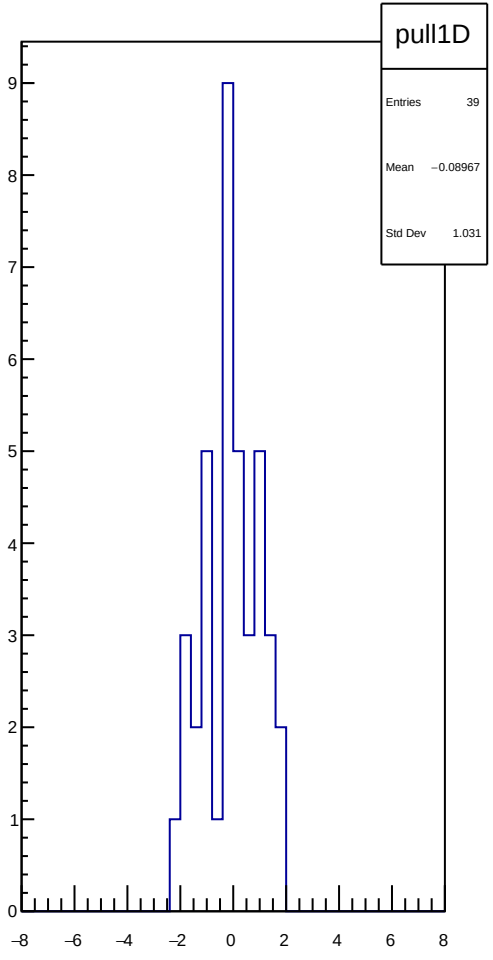

pull1D
Entries 39
Mean 0.01455
Std Dev 0.8918
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

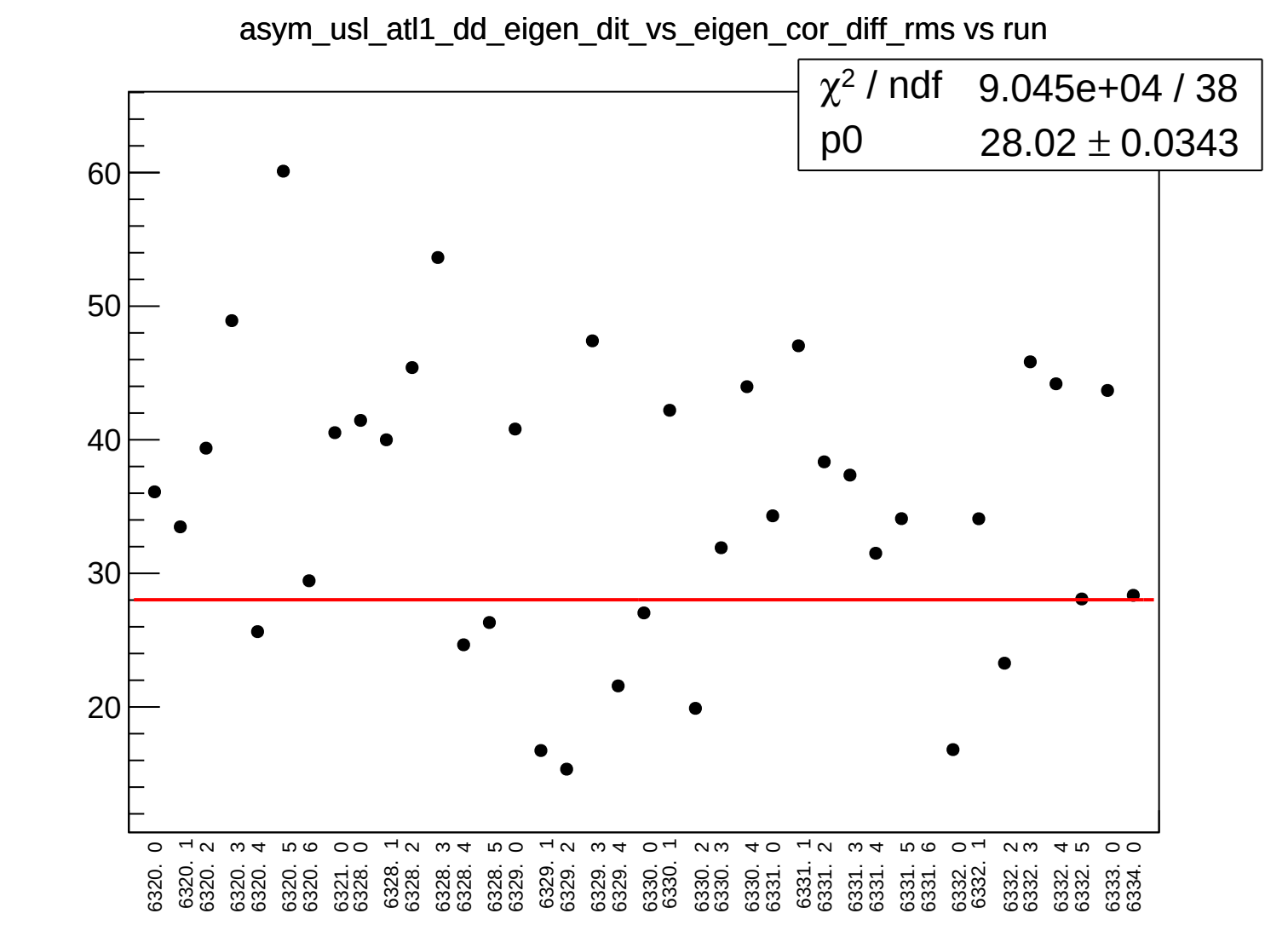

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.649e+04 / 38
p0 0.00231 ± 2.701e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

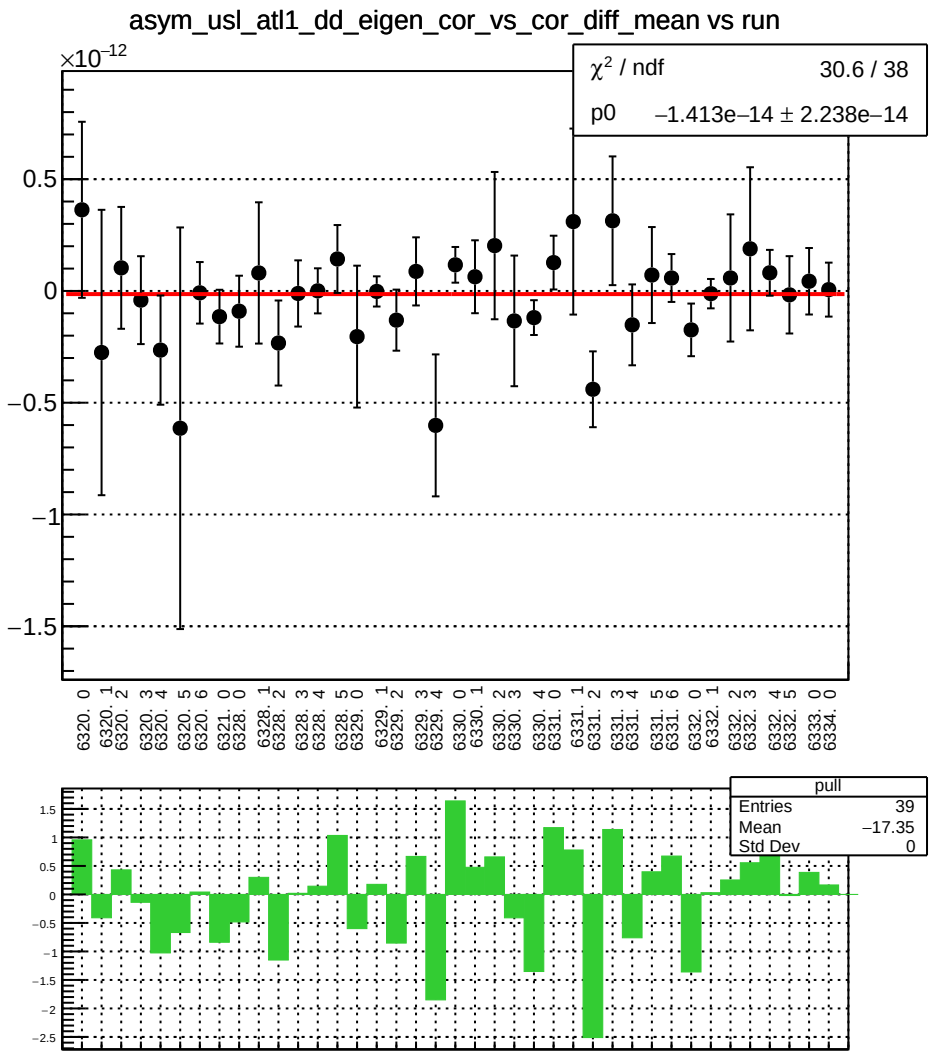

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.8 / 38
p0 −0.004237 ± 0.0485
pull
Entries 39
Mean 40.97
Std Dev 0
pull1D
Entries 39
Mean −0.08967
Std Dev 1.031

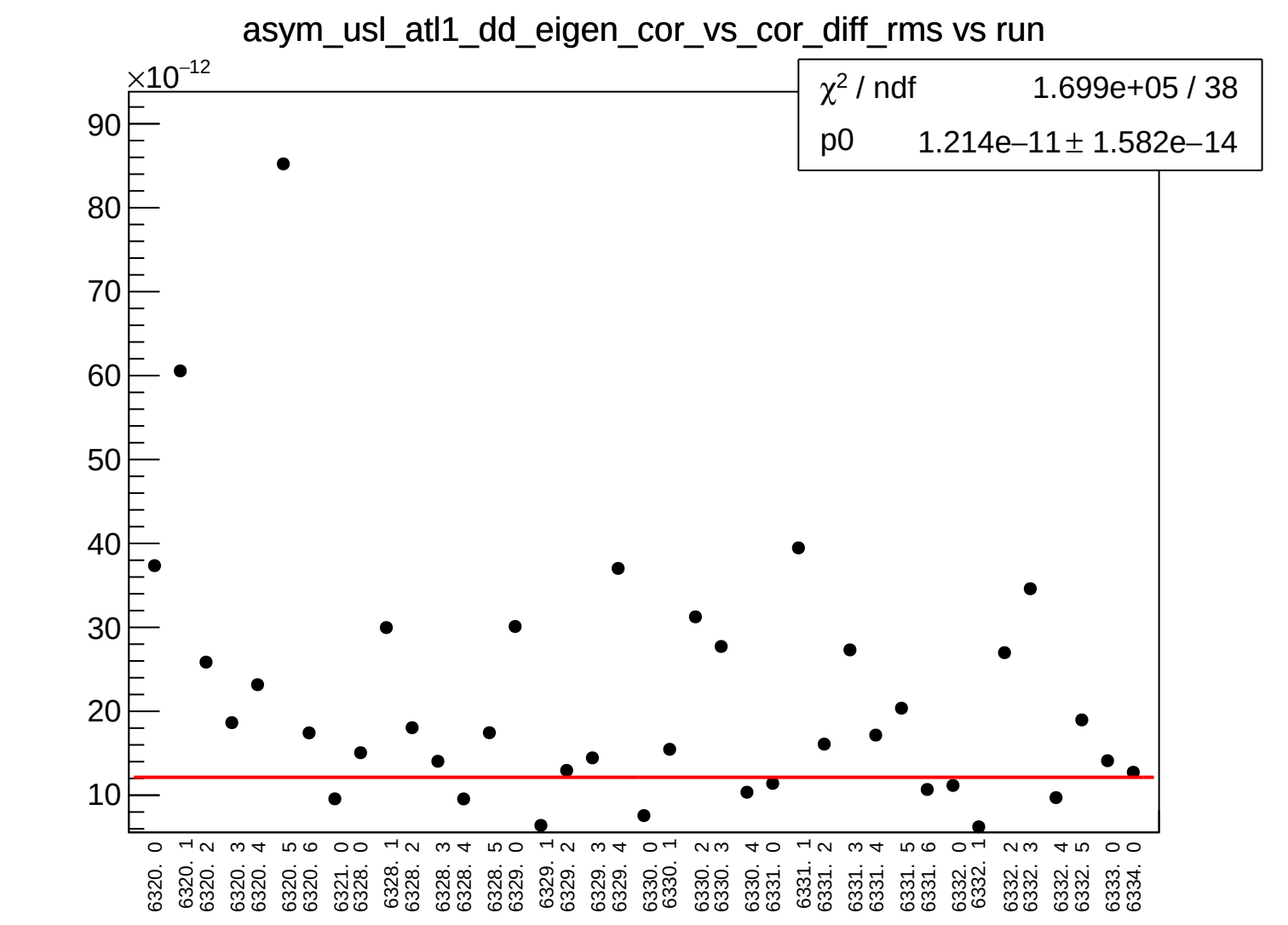

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 38
p0 28.02 ± 0.0343
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

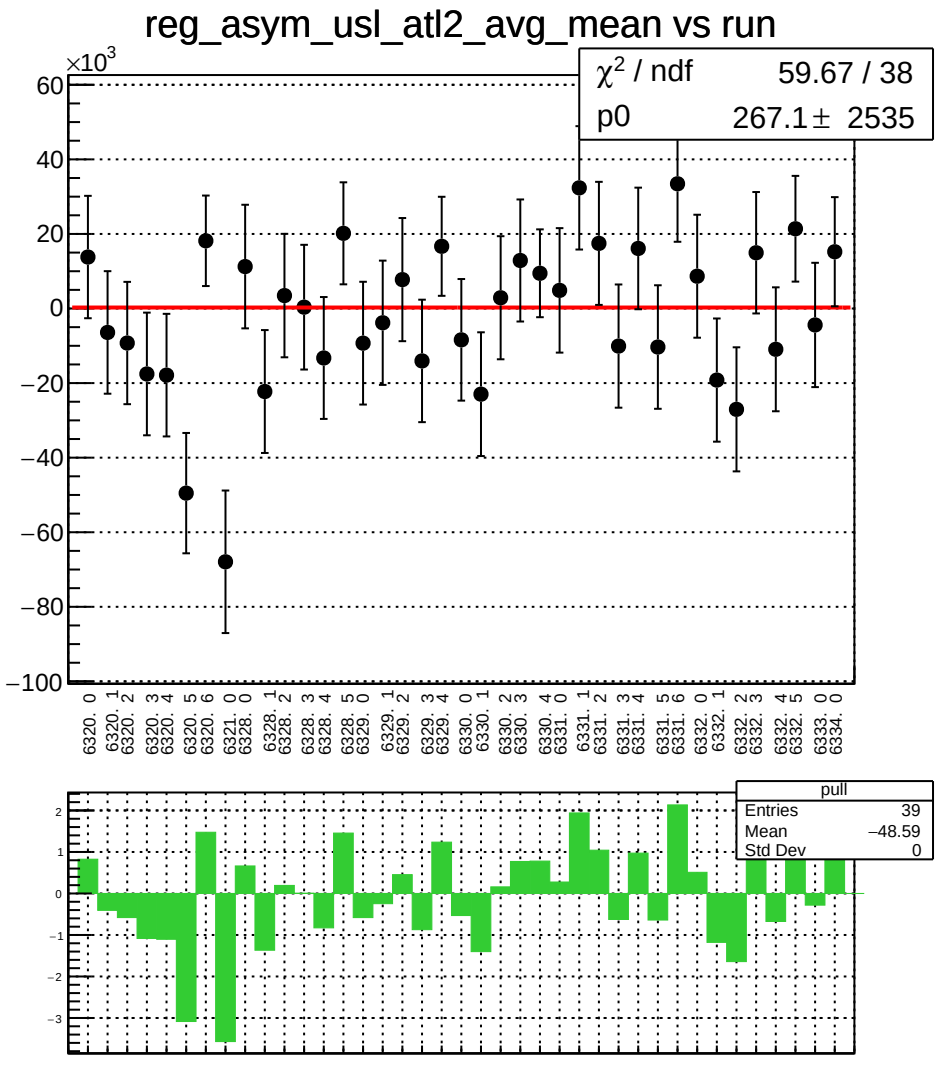

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.8 / 38
p0 −0.004237 ± 0.0485
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

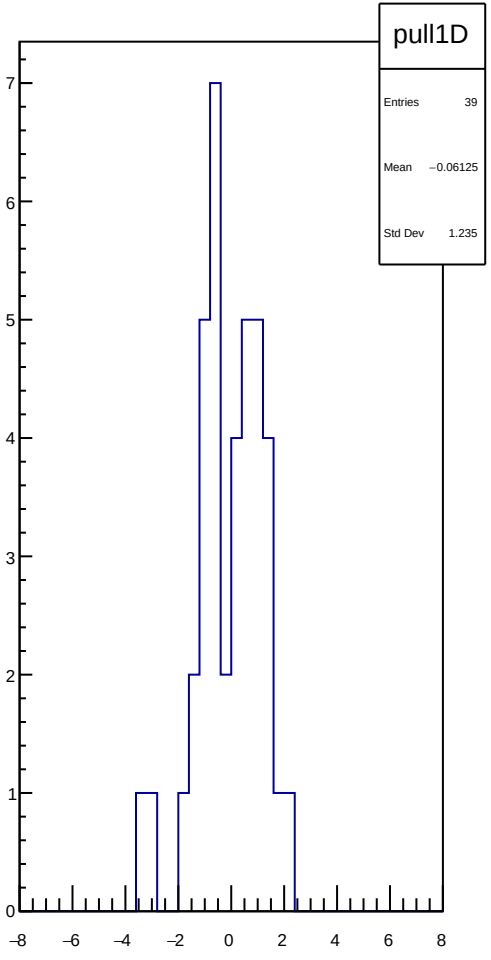

pull1D
Entries 39
Mean −0.08967
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

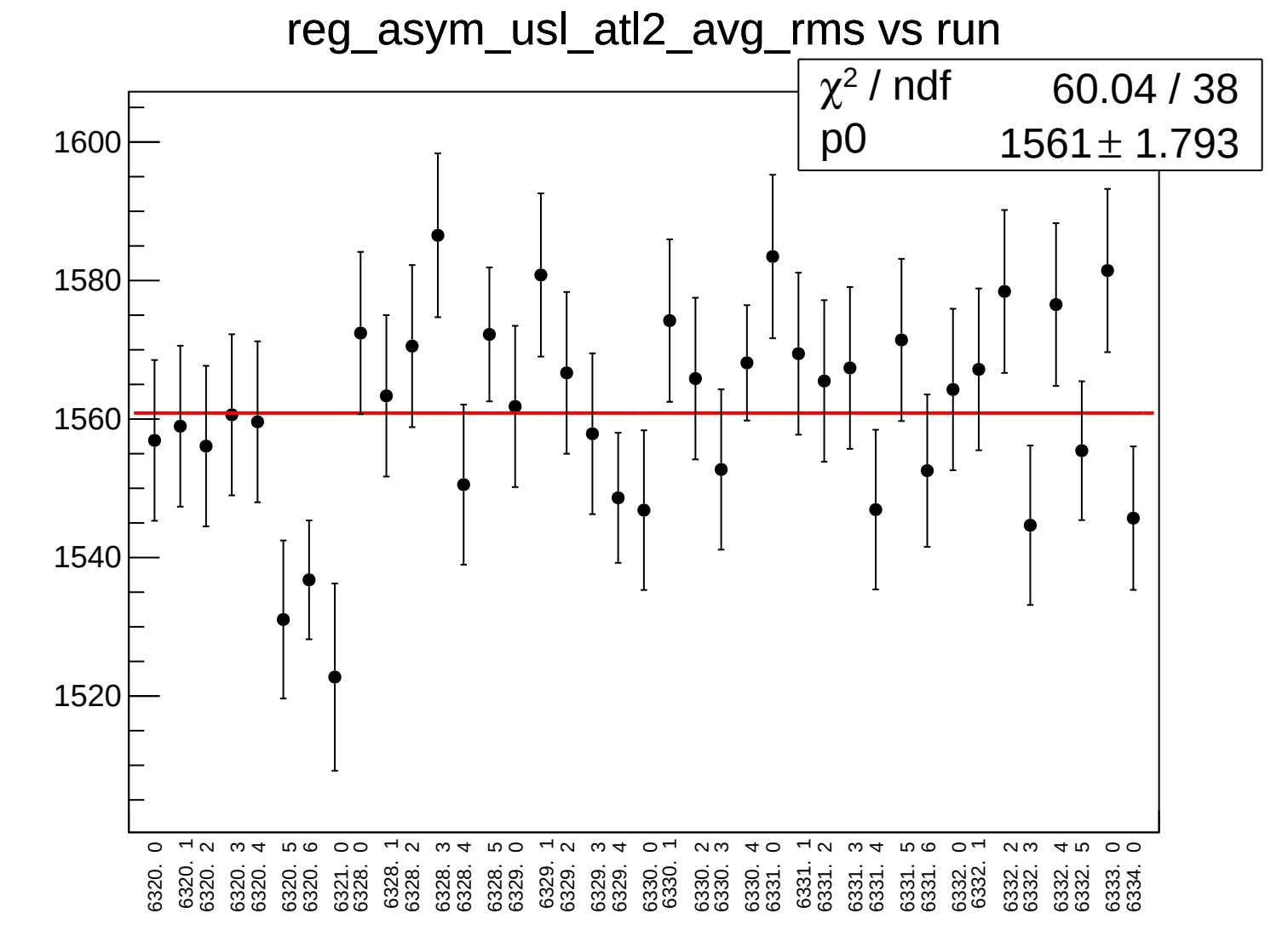

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 38
p0 28.02 ± 0.0343
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

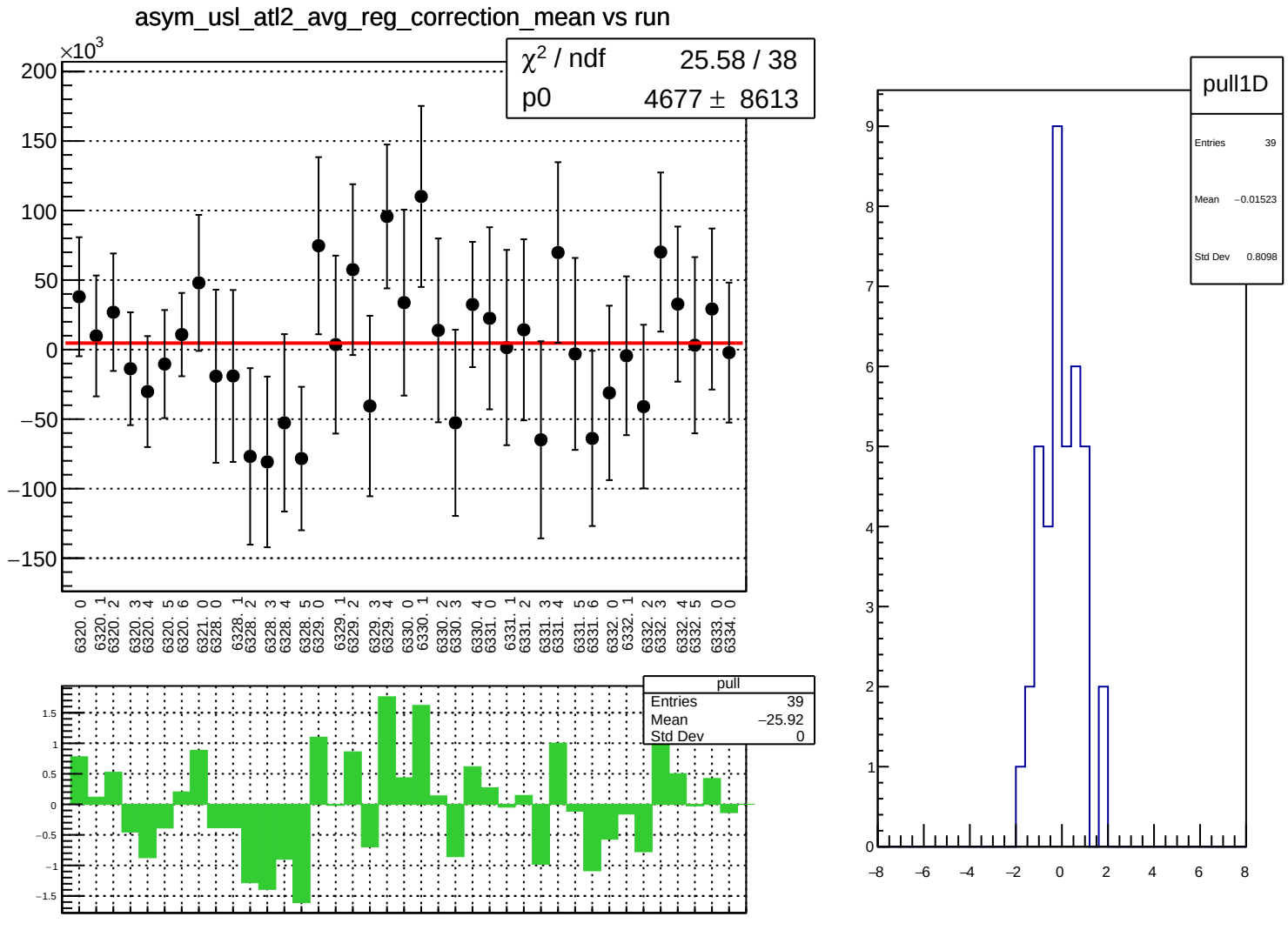

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.6 / 38
p0 −1.413e−14 ± 2.238e−14
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03575
Std Dev 0.8851
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

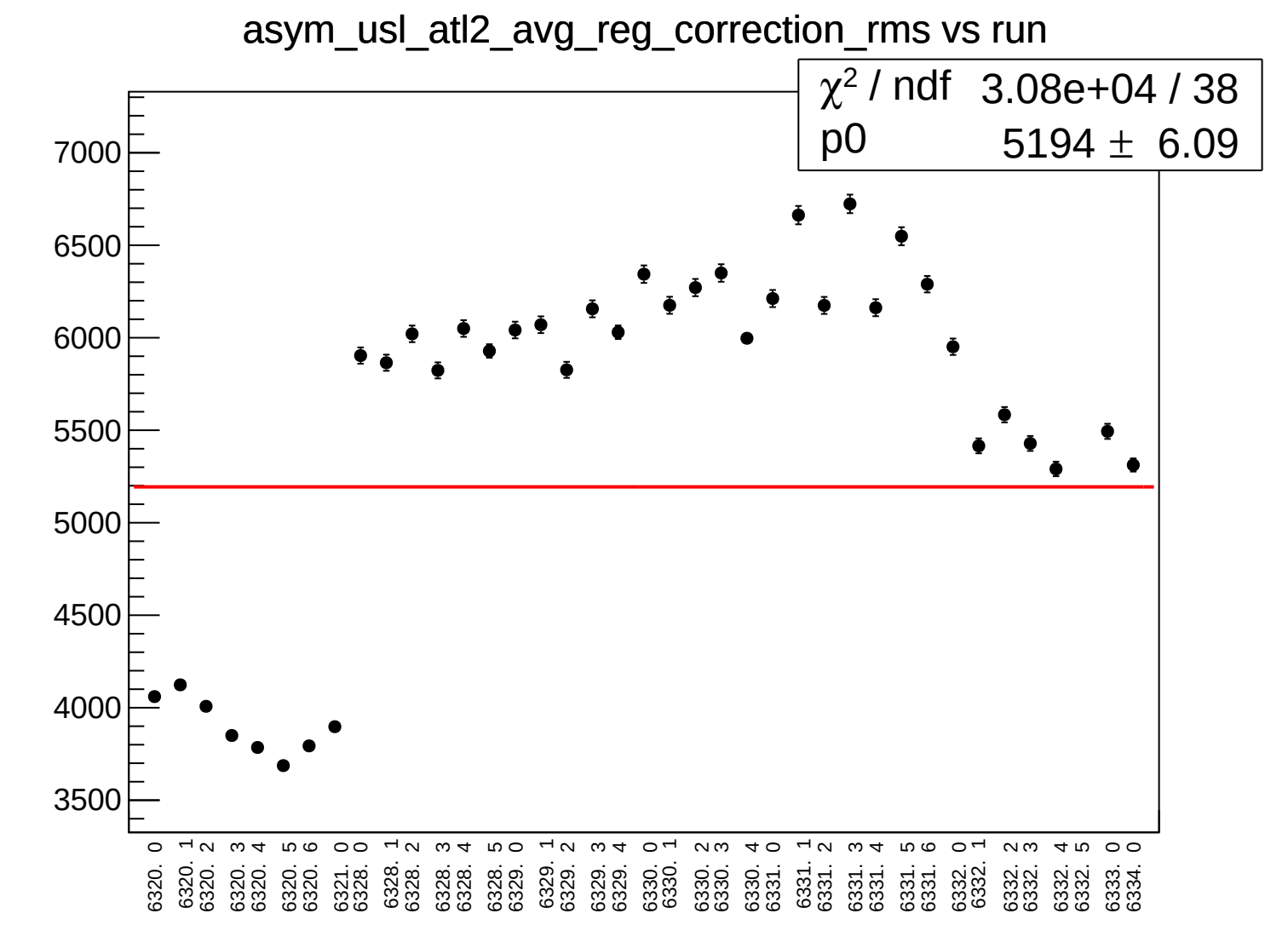

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.699e+05 / 38
p0 1.214e−11 ± 1.582e−14
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

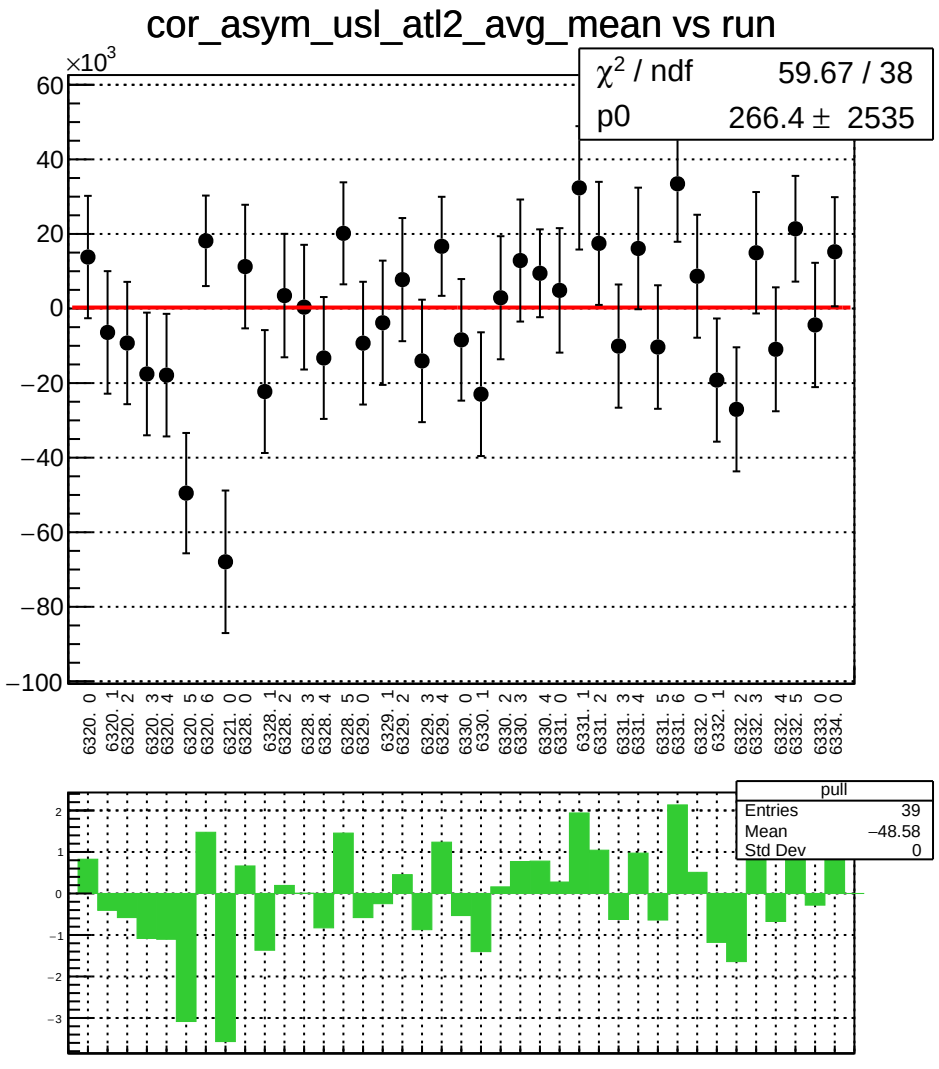

reg_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 59.67 / 38
p0 267.1± 2535
pull
Entries 39
Mean −48.59
Std Dev 0

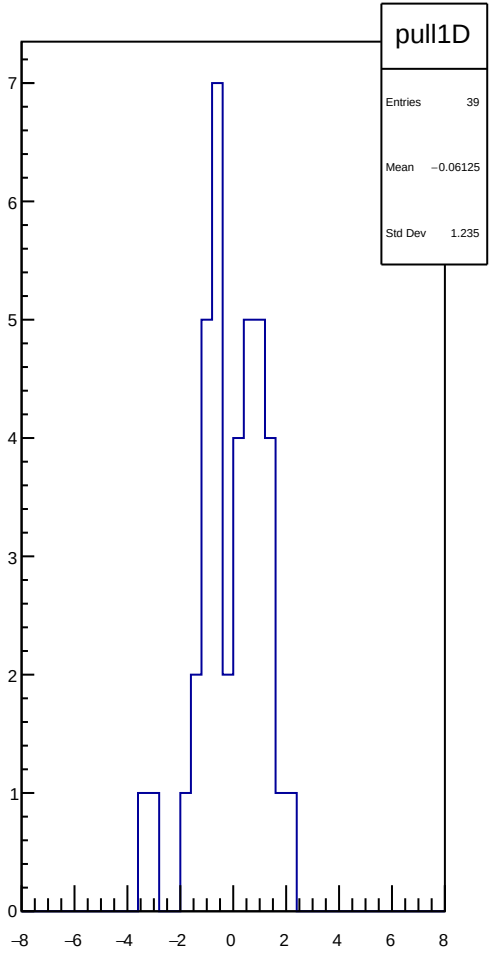

pull1D
Entries 39
Mean −0.06125
Std Dev 1.235

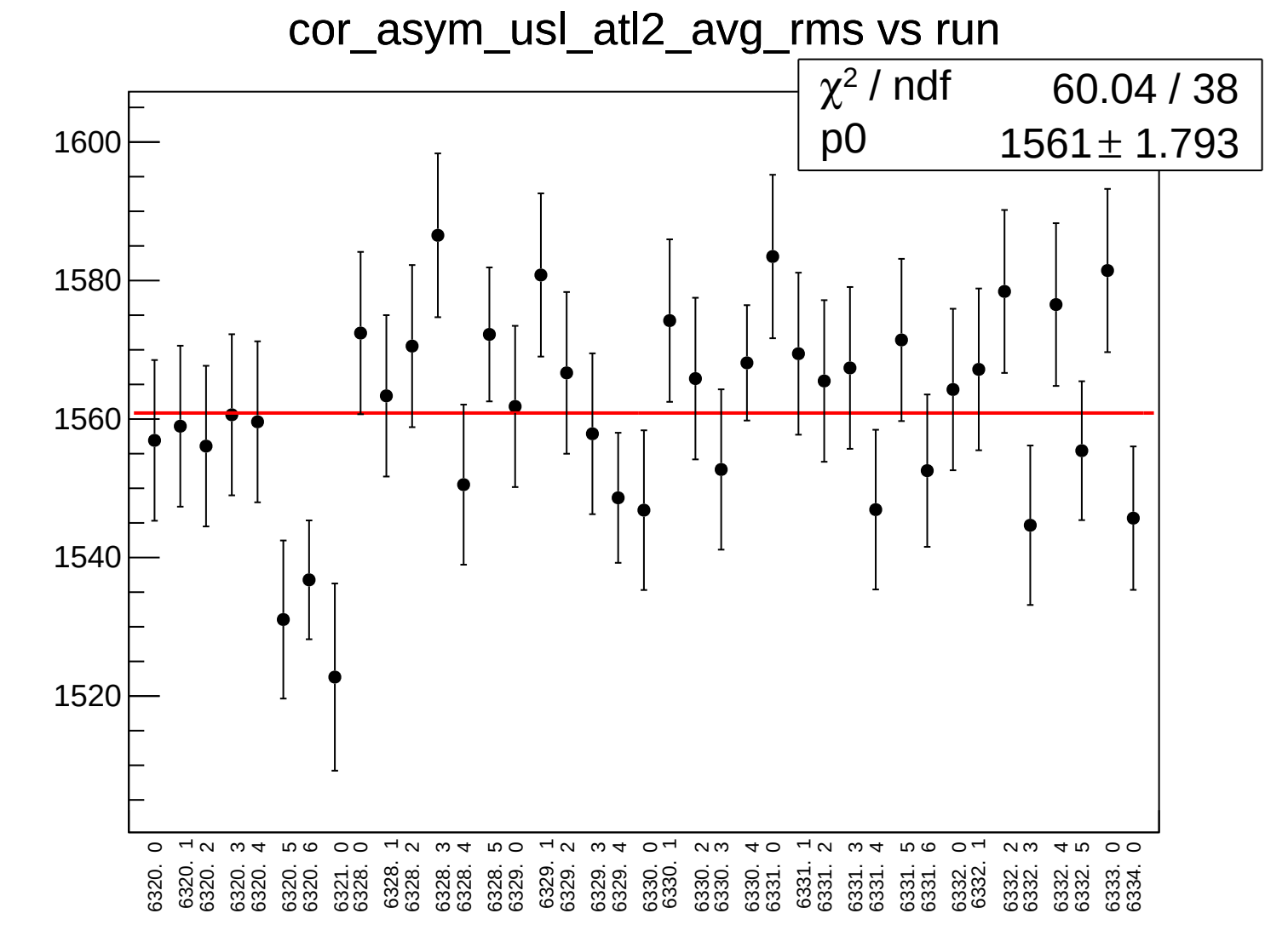

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 60.04 / 38
p0 1561 ± 1.793
1600
1580
1560
1540
1520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

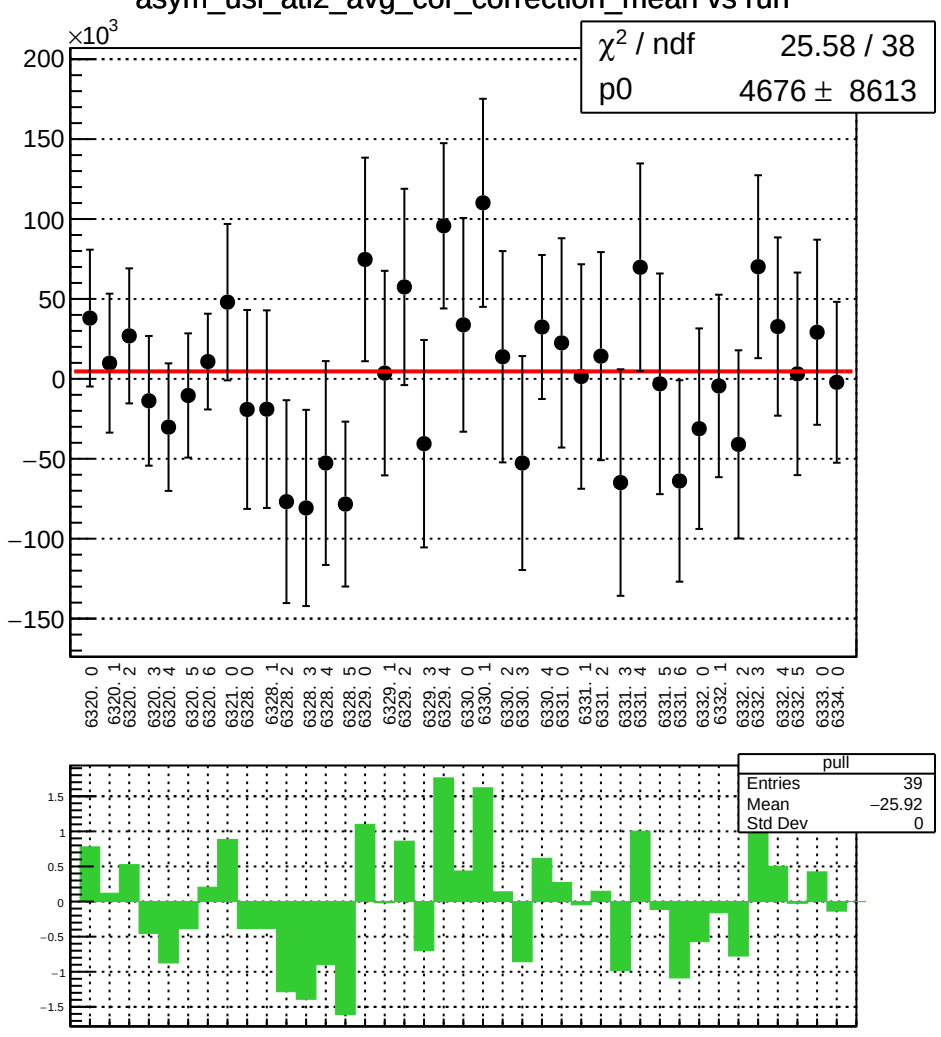

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 25.58 / 38
p0 4677 ± 8613
×10³
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01523
Std Dev 0.8098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

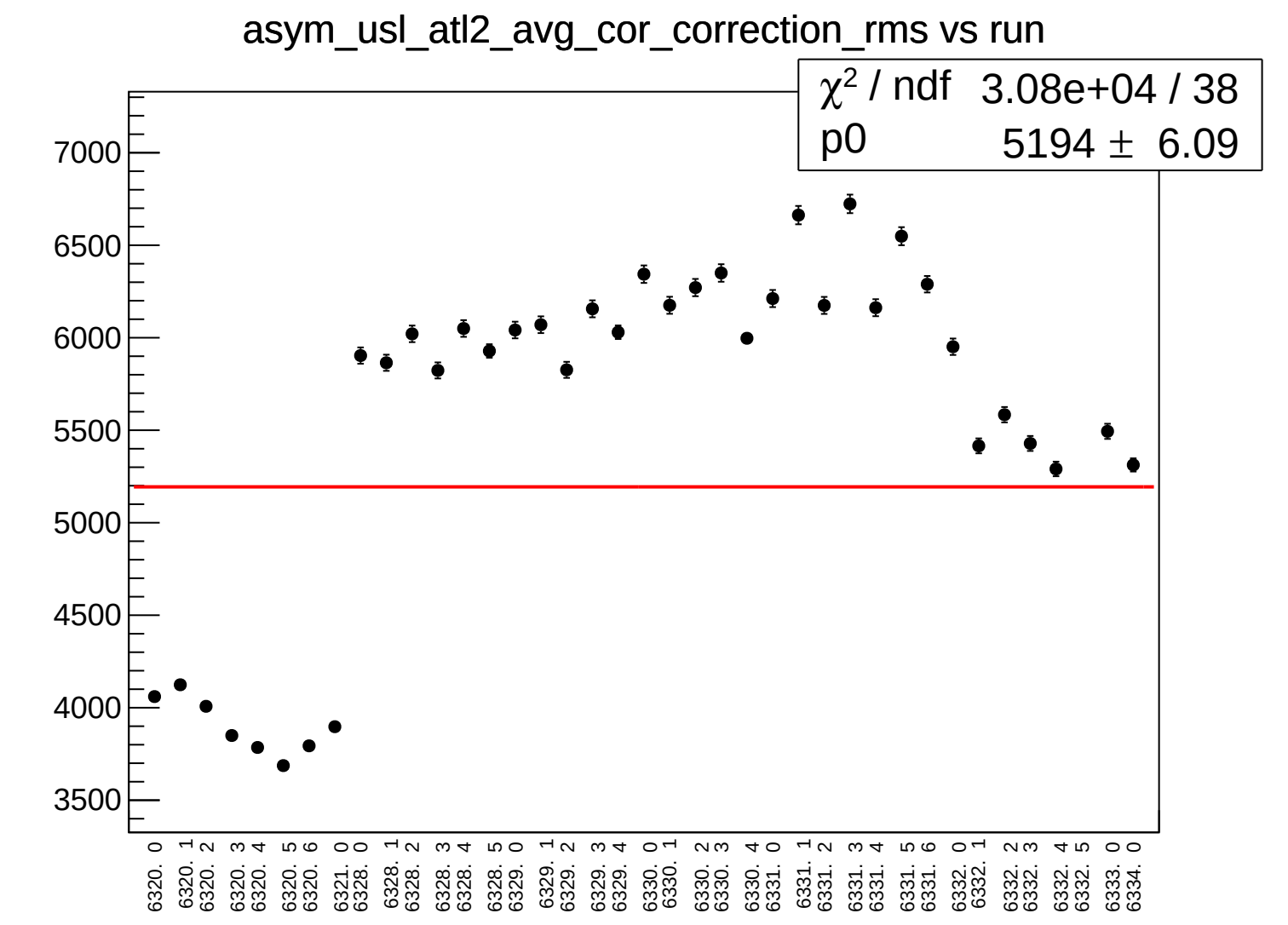

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3.08e+04 / 38
p0 5194 ± 6.09
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

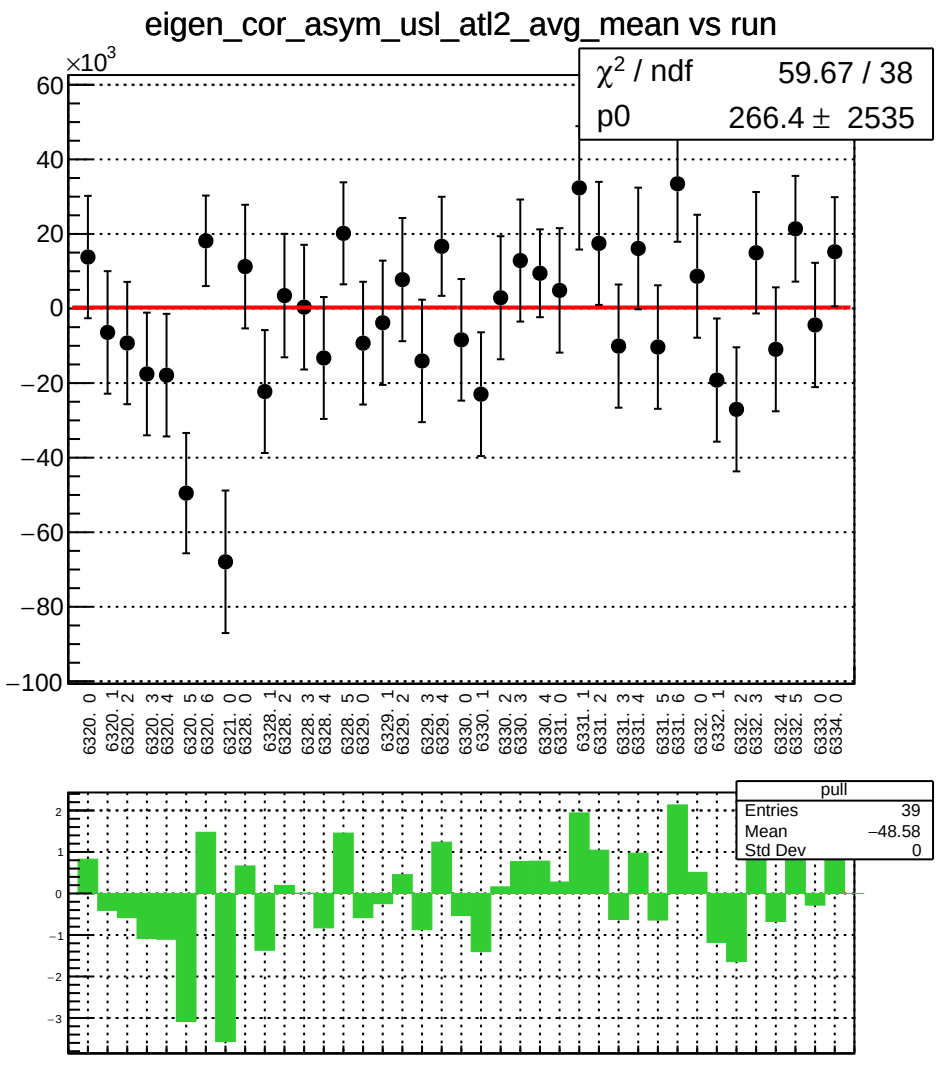

cor_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 59.67 / 38
p0 266.4 ± 2535
pull
Entries 39
Mean −48.58
Std Dev 0

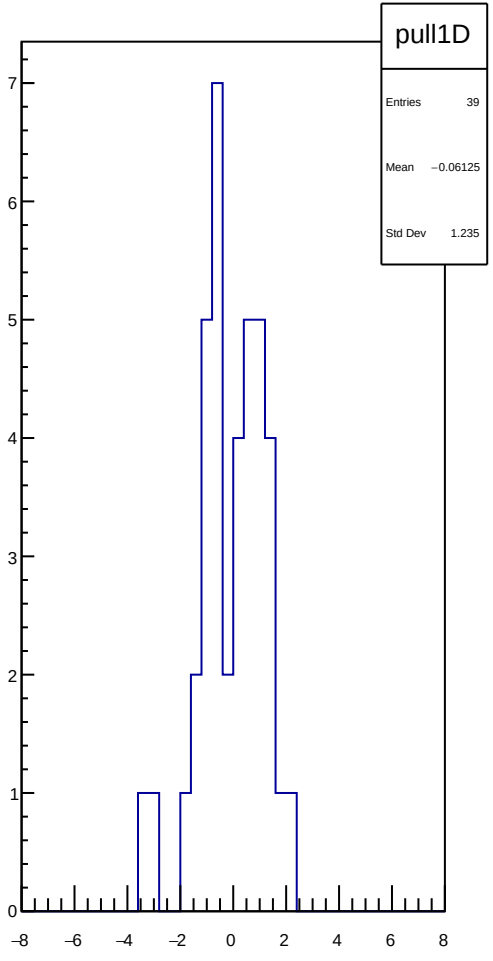

pull1D
Entries 39
Mean −0.06125
Std Dev 1.235

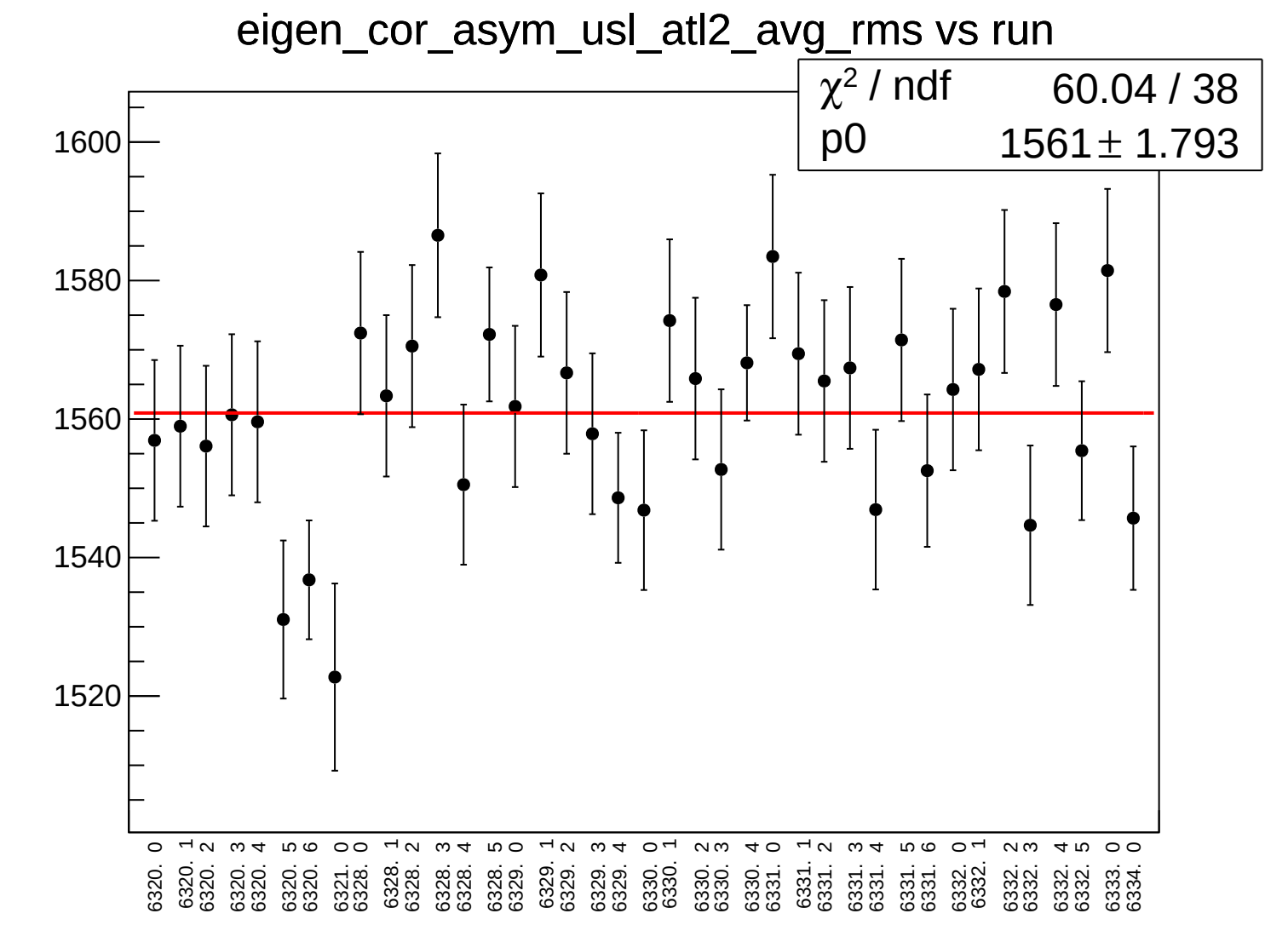

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 60.04 / 38
p0 1561 ± 1.793
1600
1580
1560
1540
1520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

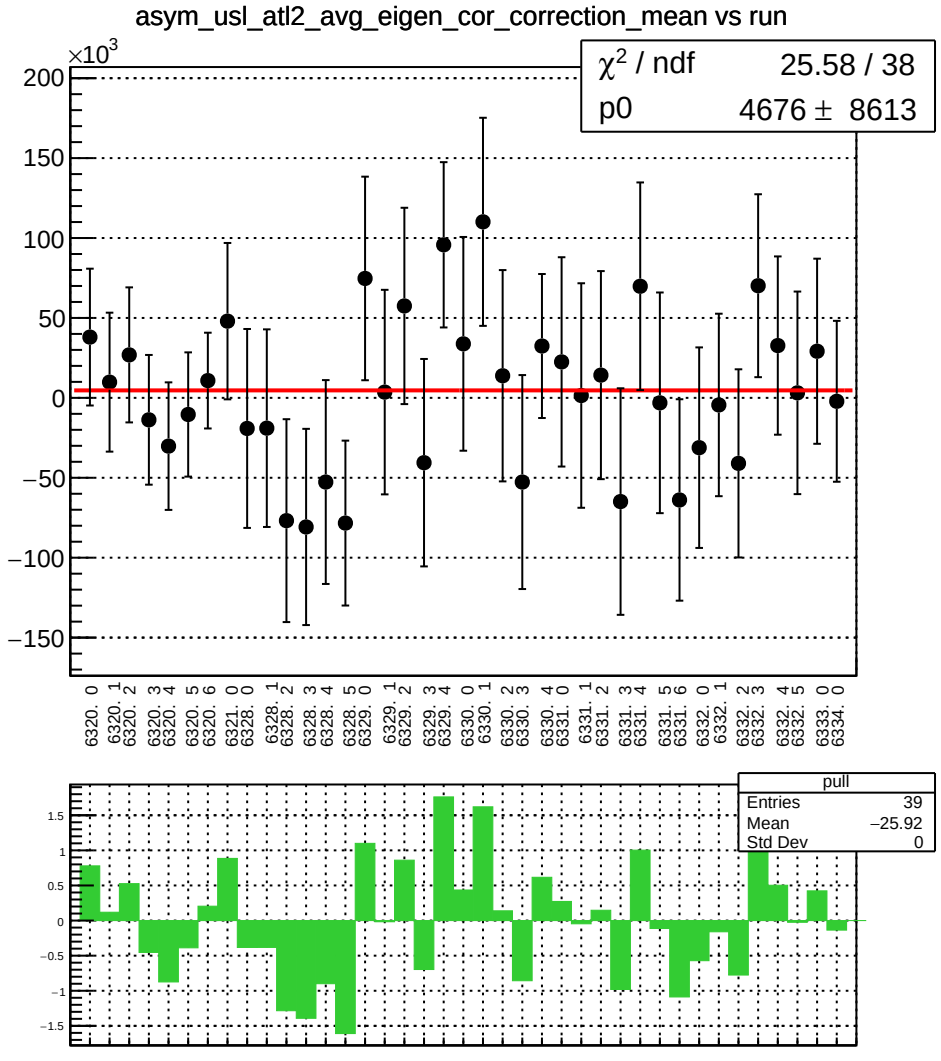

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 25.58 / 38
p0 4676 ± 8613
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01523
Std Dev 0.8098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

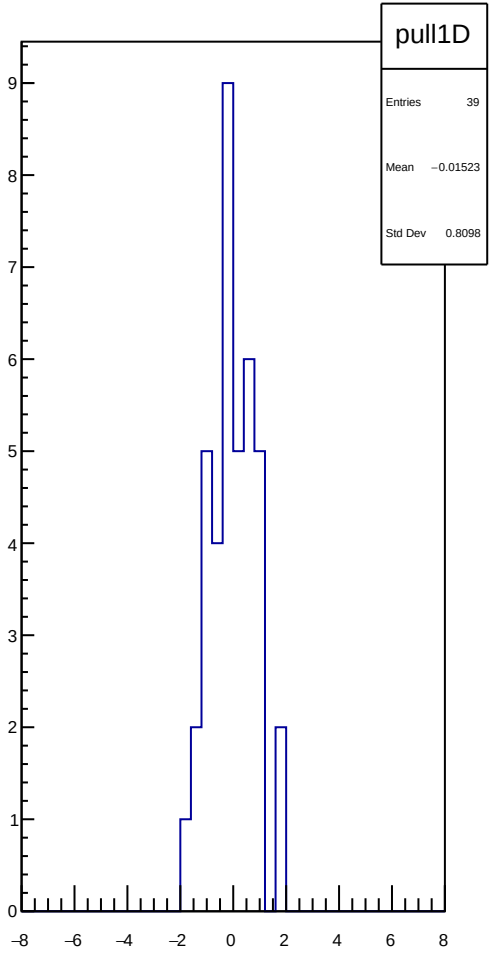

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3.08e+04 / 38
p0 5194 ± 6.09
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

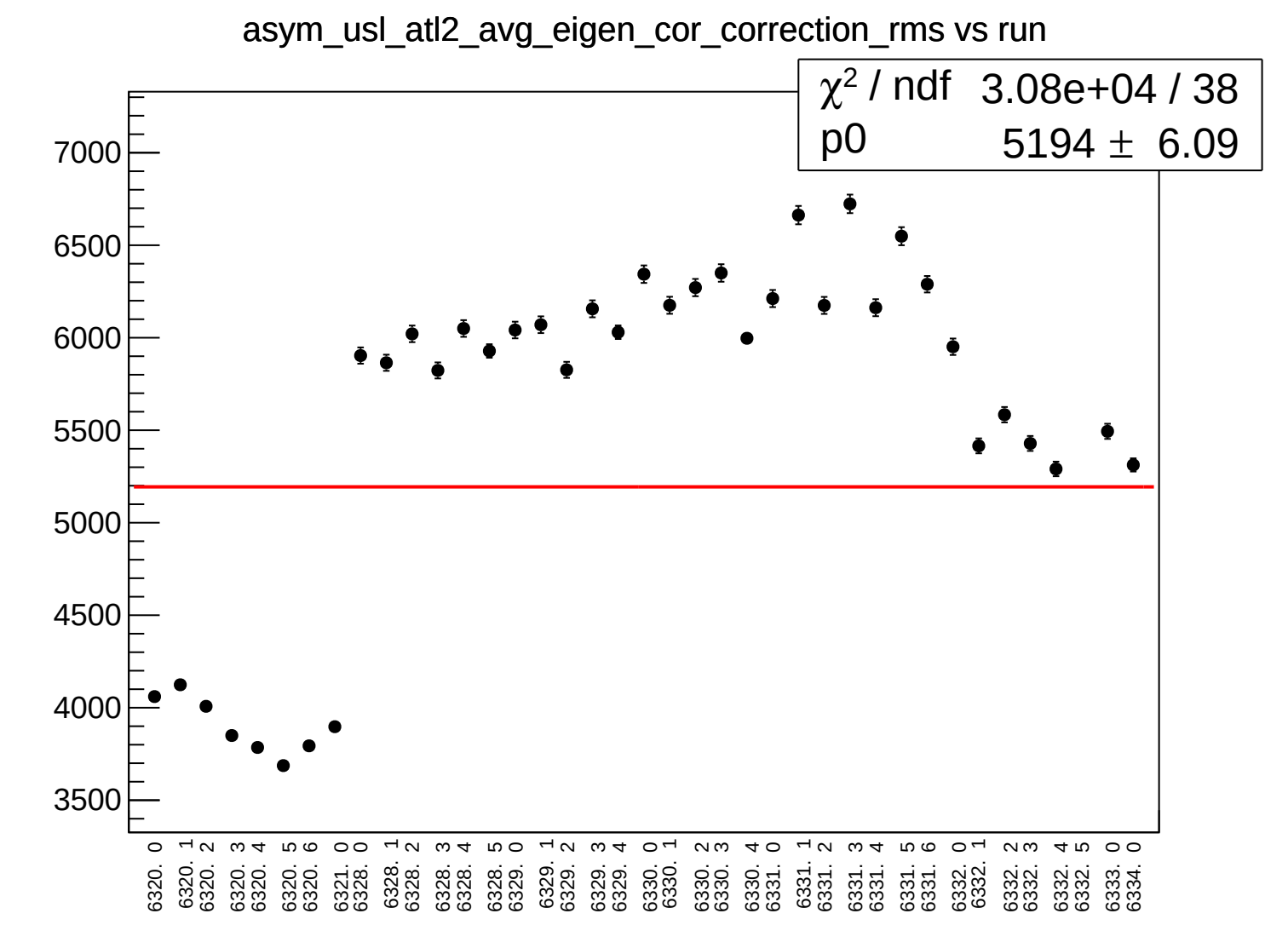

eigen_cor_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 59.67 / 38
p0 266.4 ± 2535
pull
Entries 39
Mean −48.58
Std Dev 0

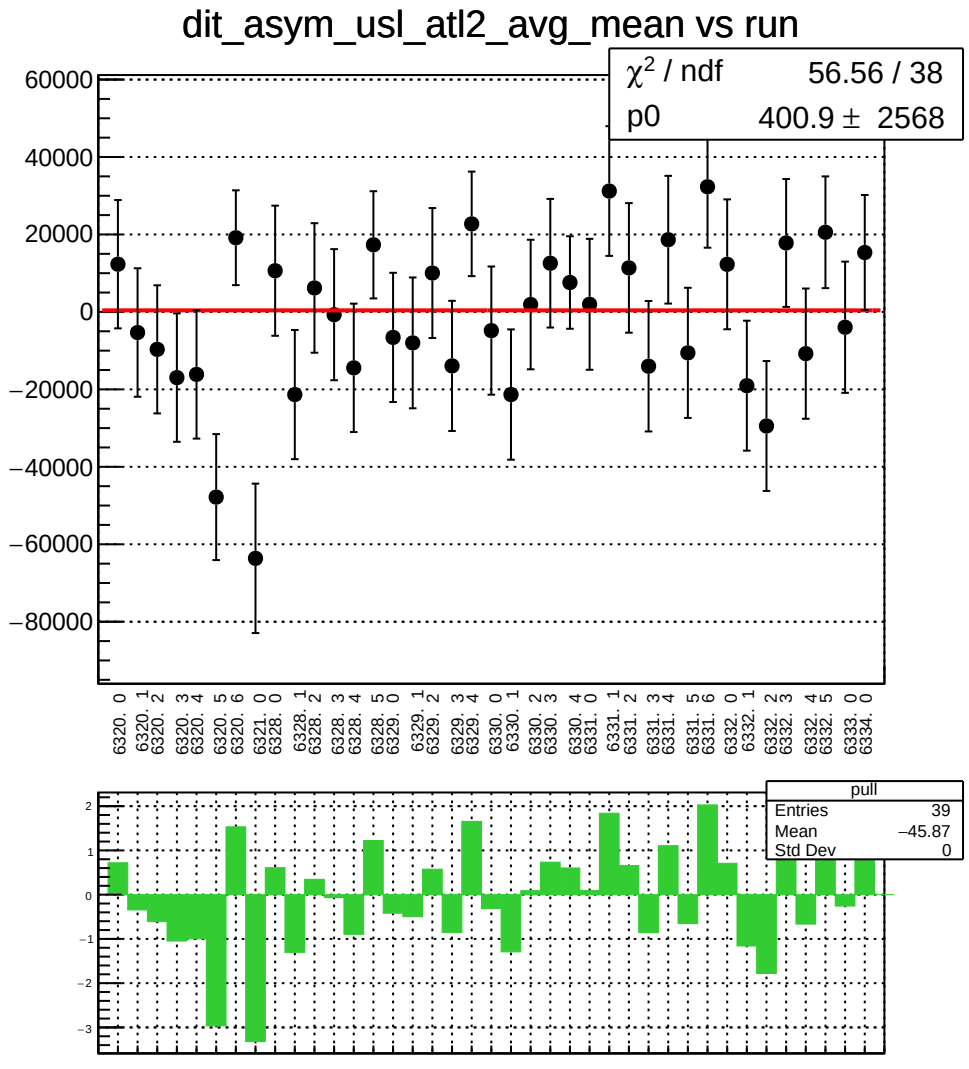

pull1D
Entries 39
Mean −0.06125
Std Dev 1.235

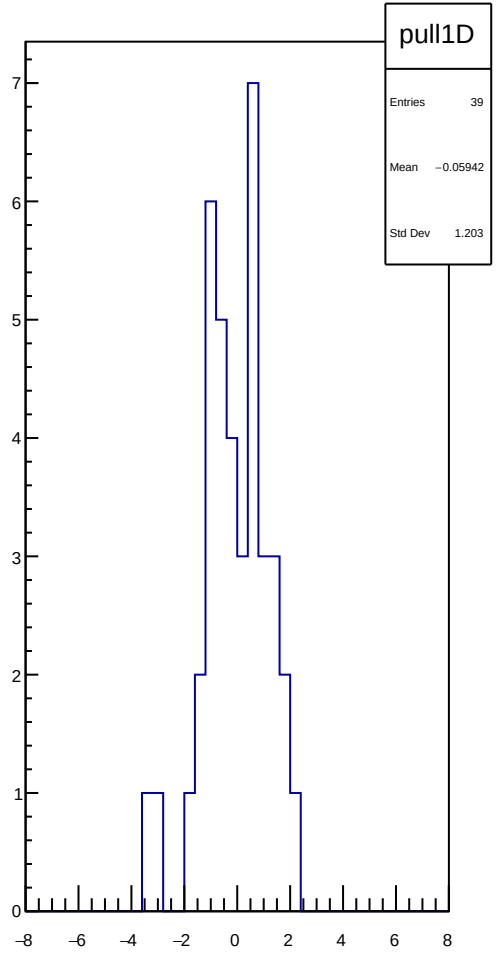

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 60.04 / 38
p0 1561 ± 1.793
1600
1580
1560
1540
1520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

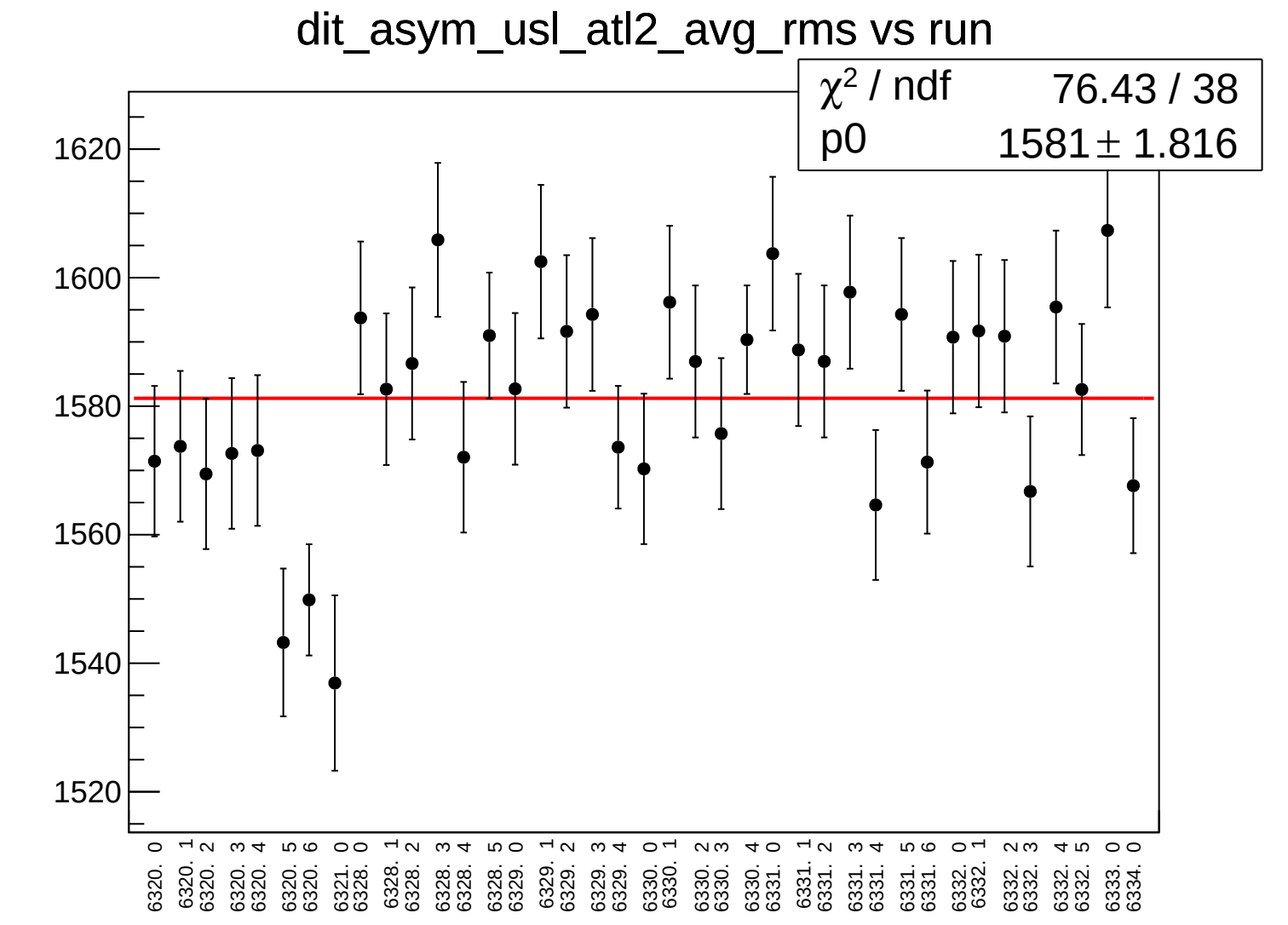

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.58 / 38
p0 4676 ± 8613
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

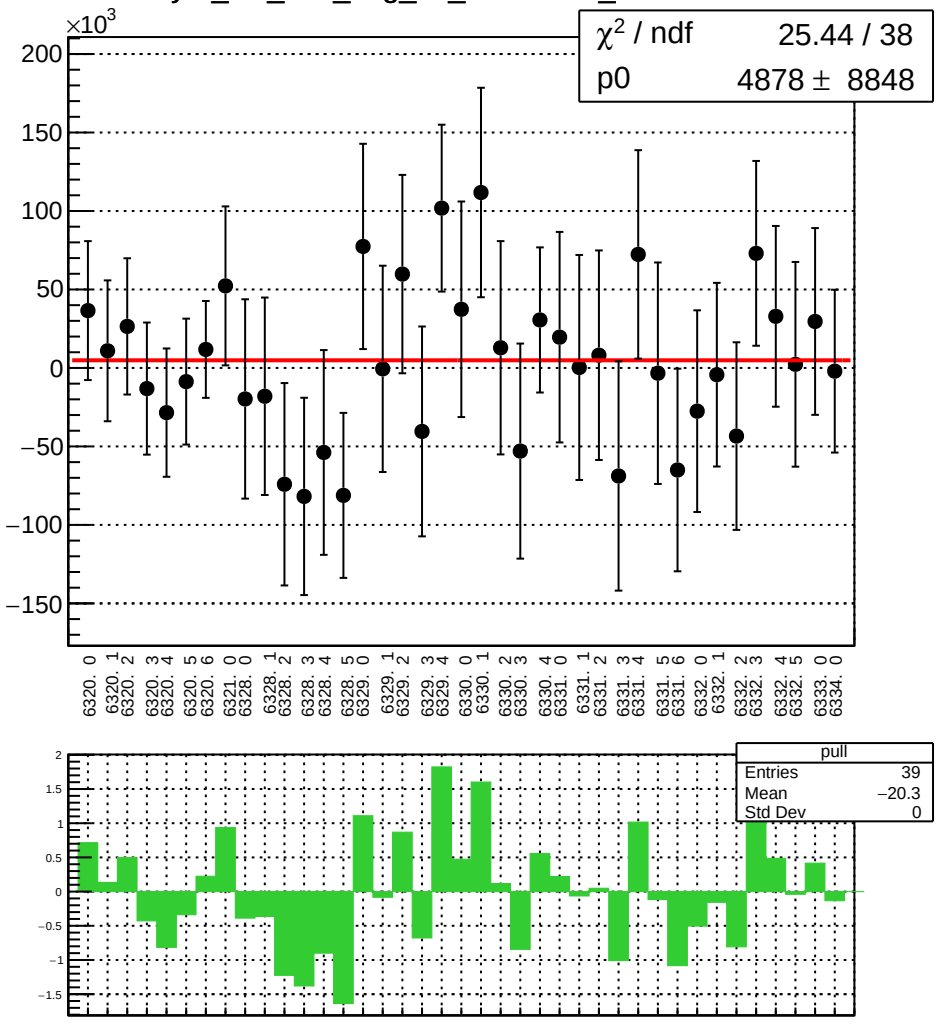

pull1D
Entries 39
Mean −0.01523
Std Dev 0.8098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

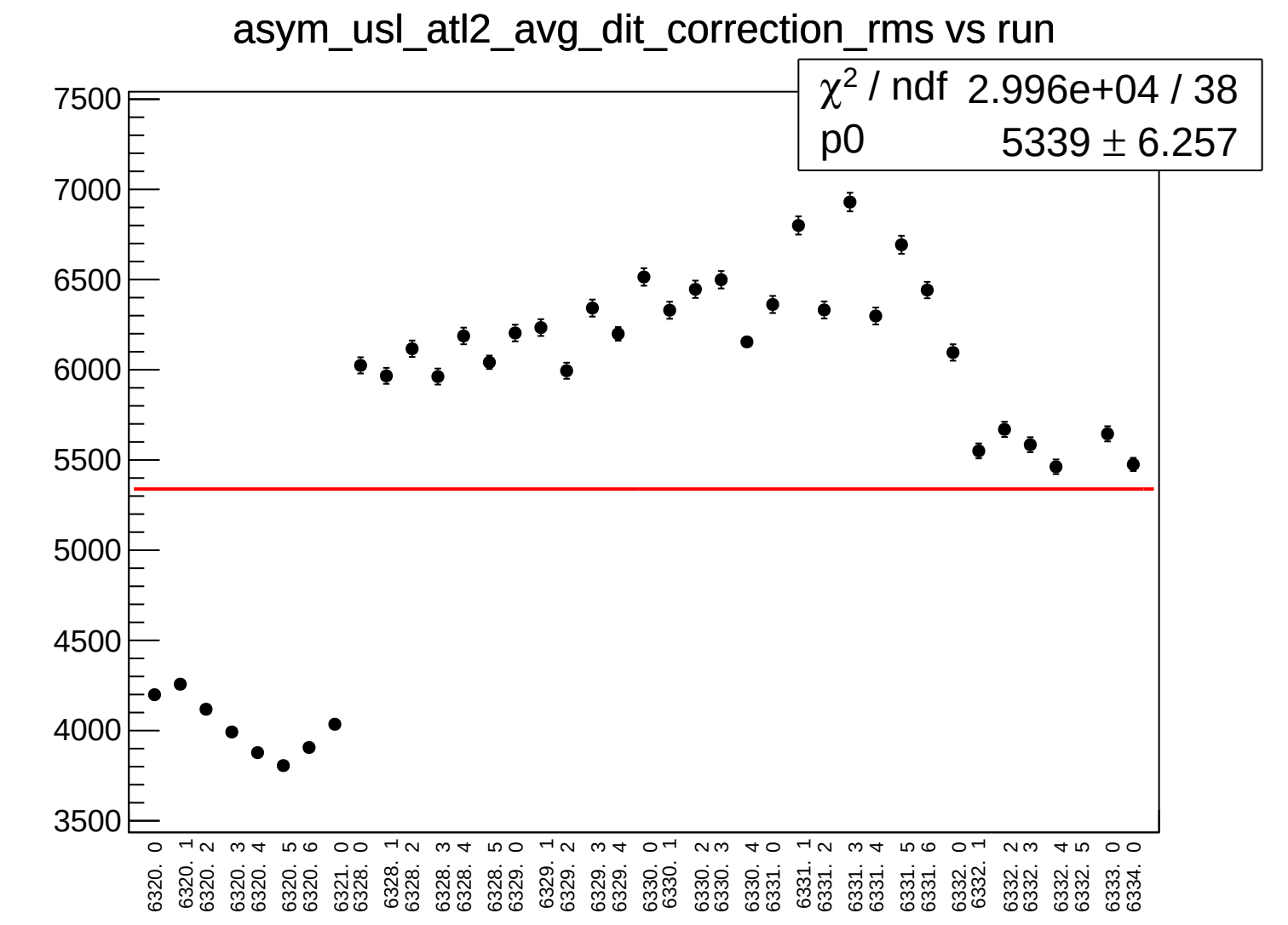

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.08e+04 / 38
p0 5194 ± 6.09
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

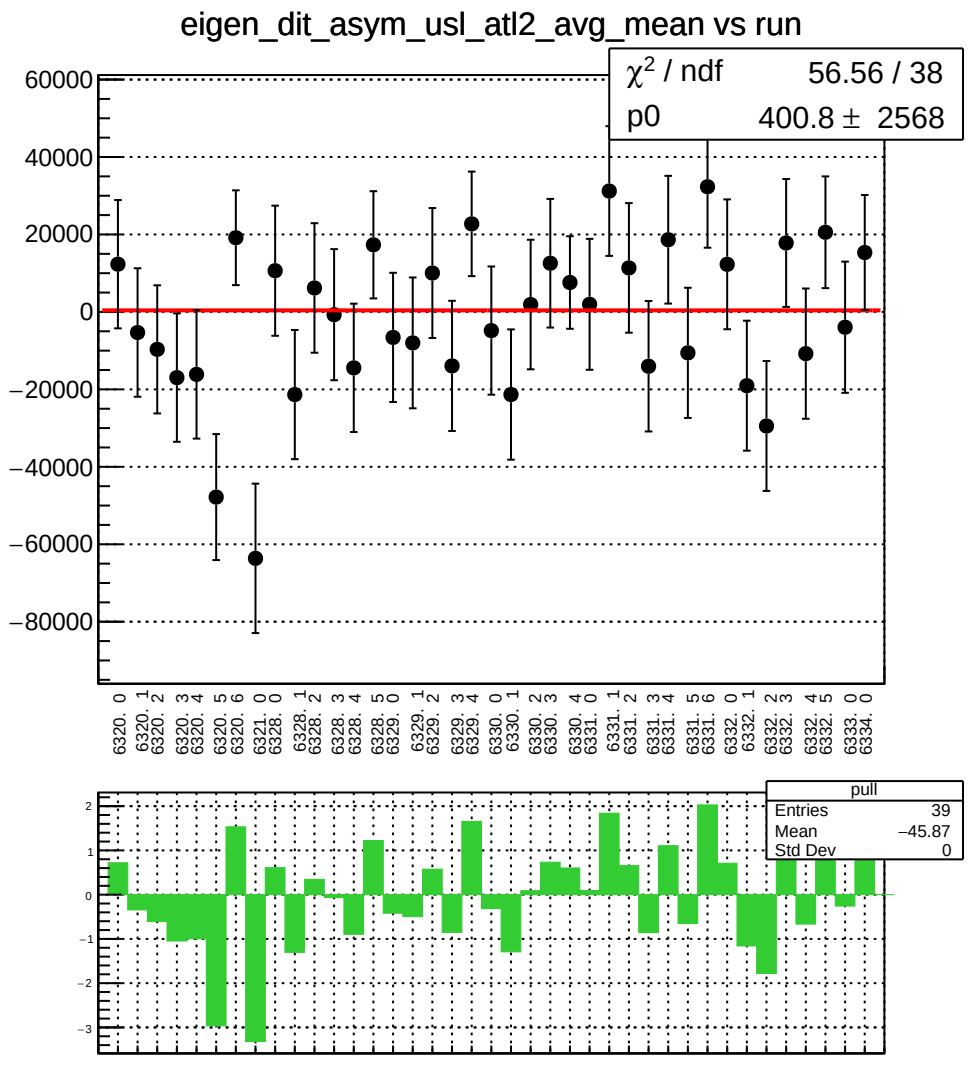

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 56.56 / 38
p0 400.9 ± 2568
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.87
Std Dev 0
2
1
0
−1
−2
−3

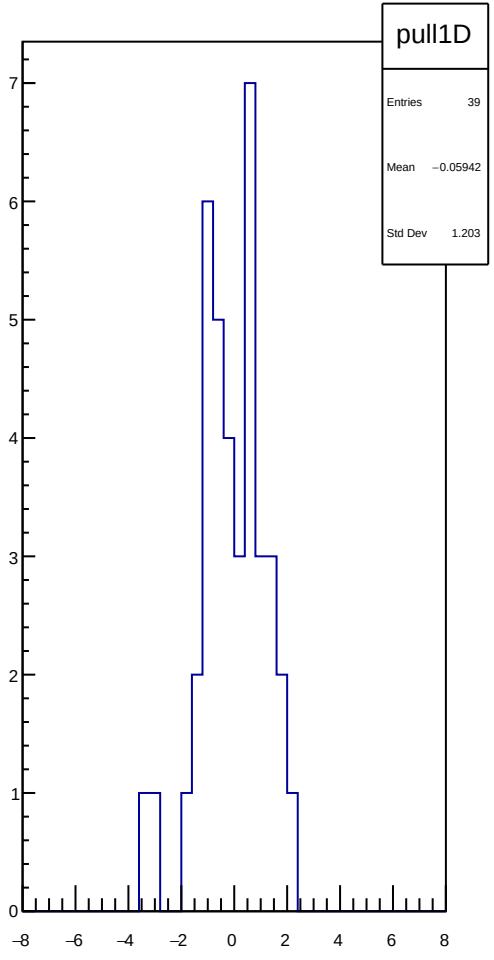

pull1D
Entries 39
Mean −0.05942
Std Dev 1.203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

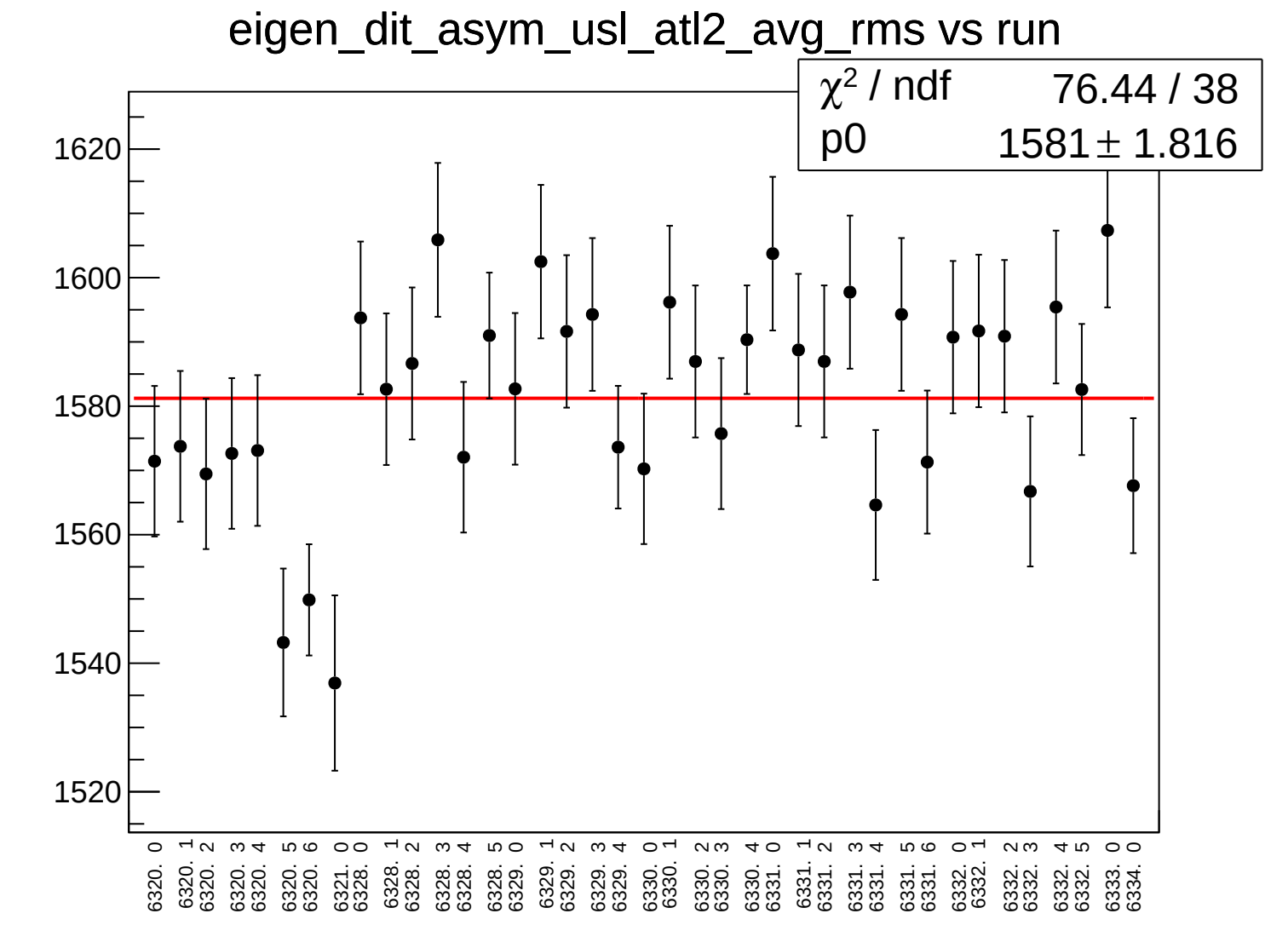

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 76.43 / 38
p0 1581 ± 1.816
1620
1600
1580
1560
1540
1520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

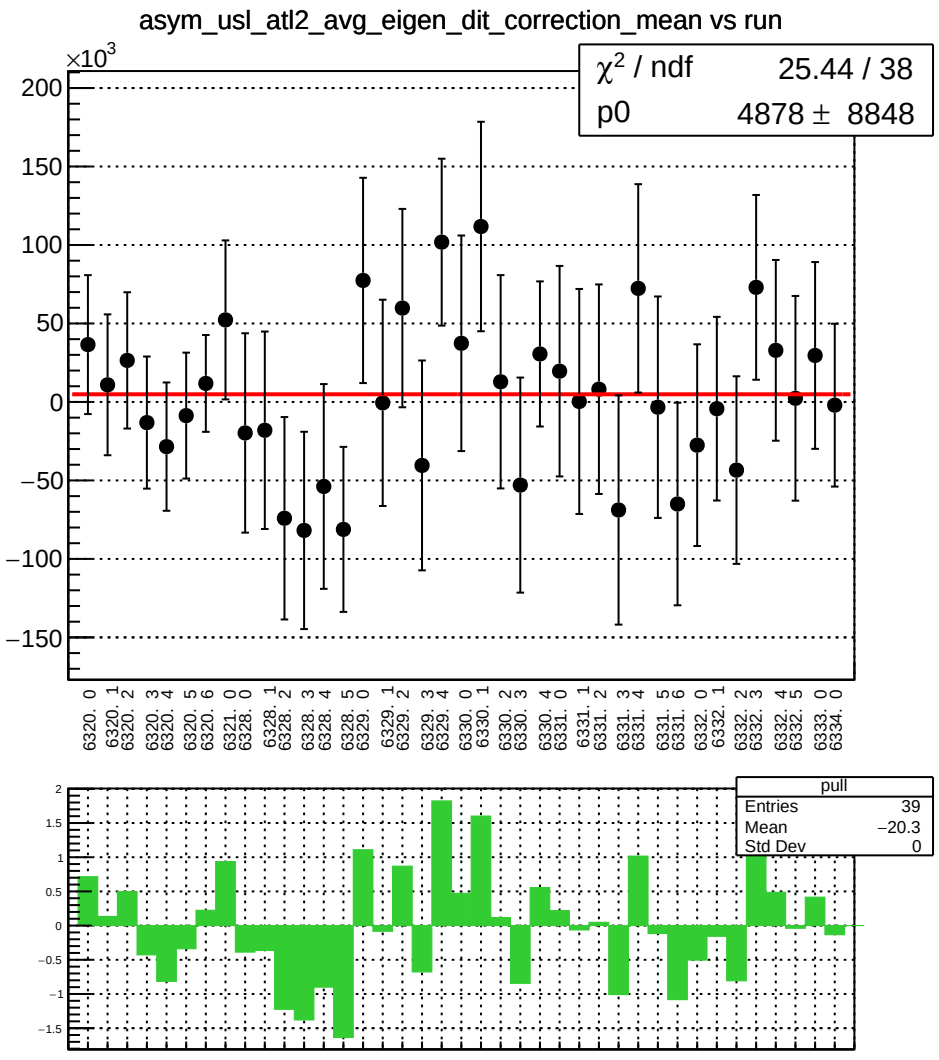

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 25.44 / 38
p0 4878 ± 8848
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01522
Std Dev 0.8075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

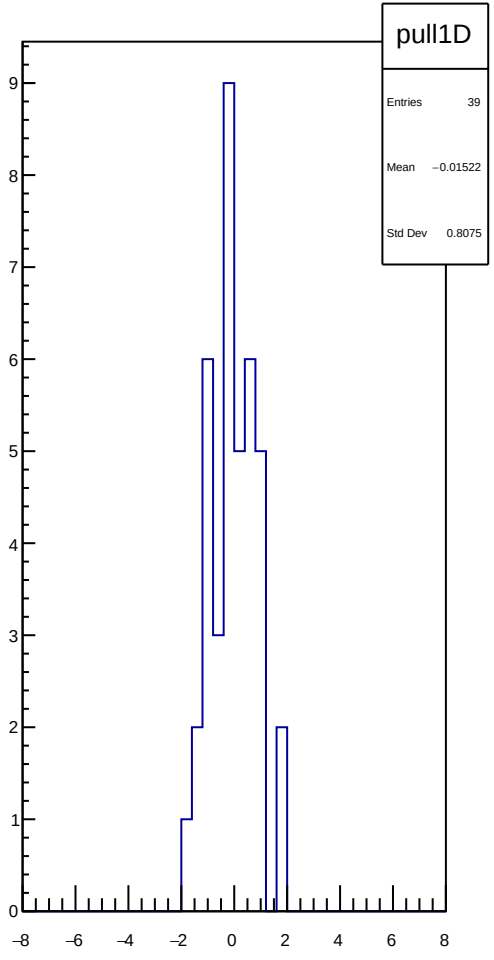

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.996e+04 / 38
p0 5339 ± 6.257
7500
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

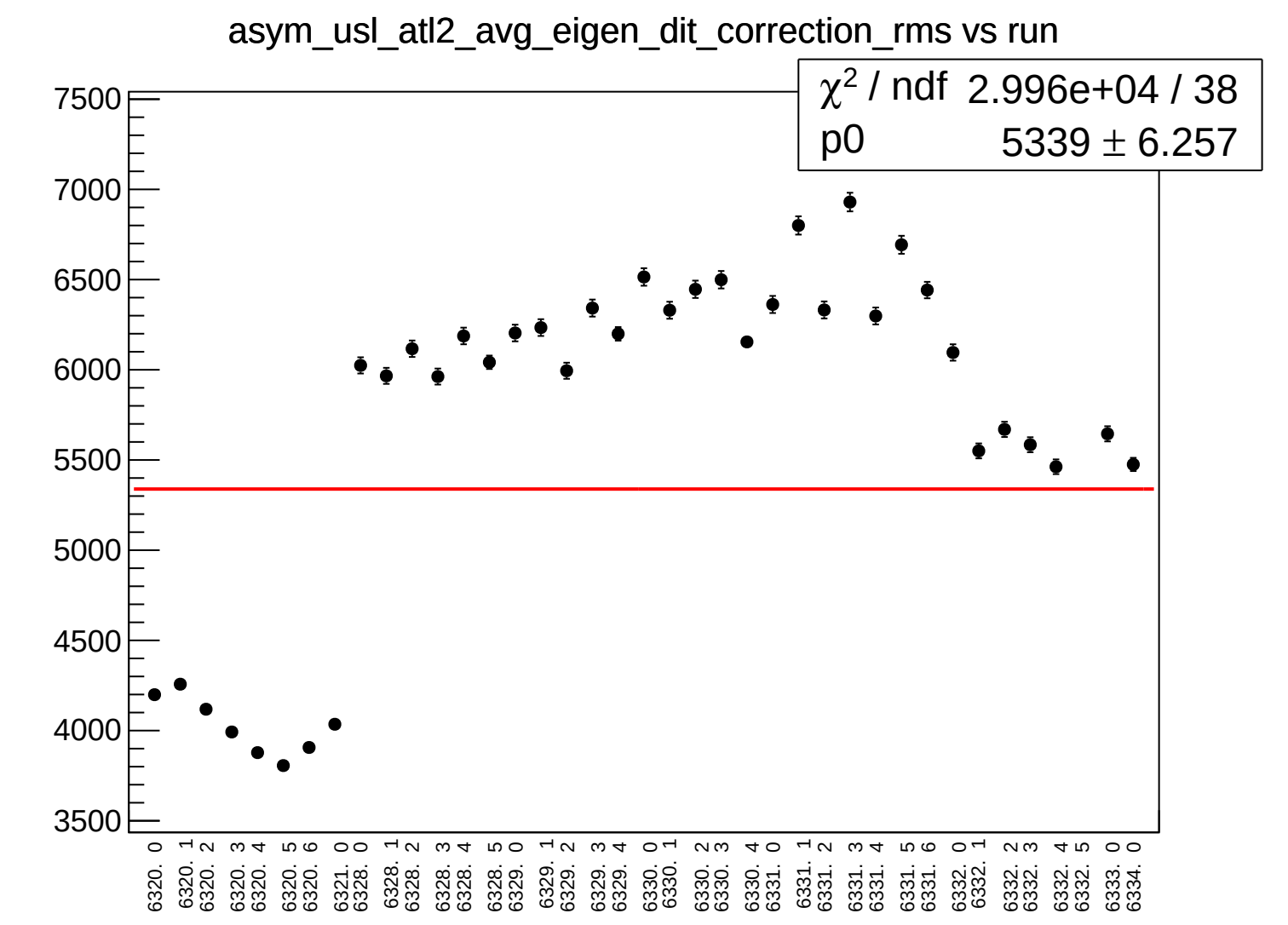

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 56.56 / 38
p0 400.8 ± 2568
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.87
Std Dev 0
2
1
0
−1
−2
−3

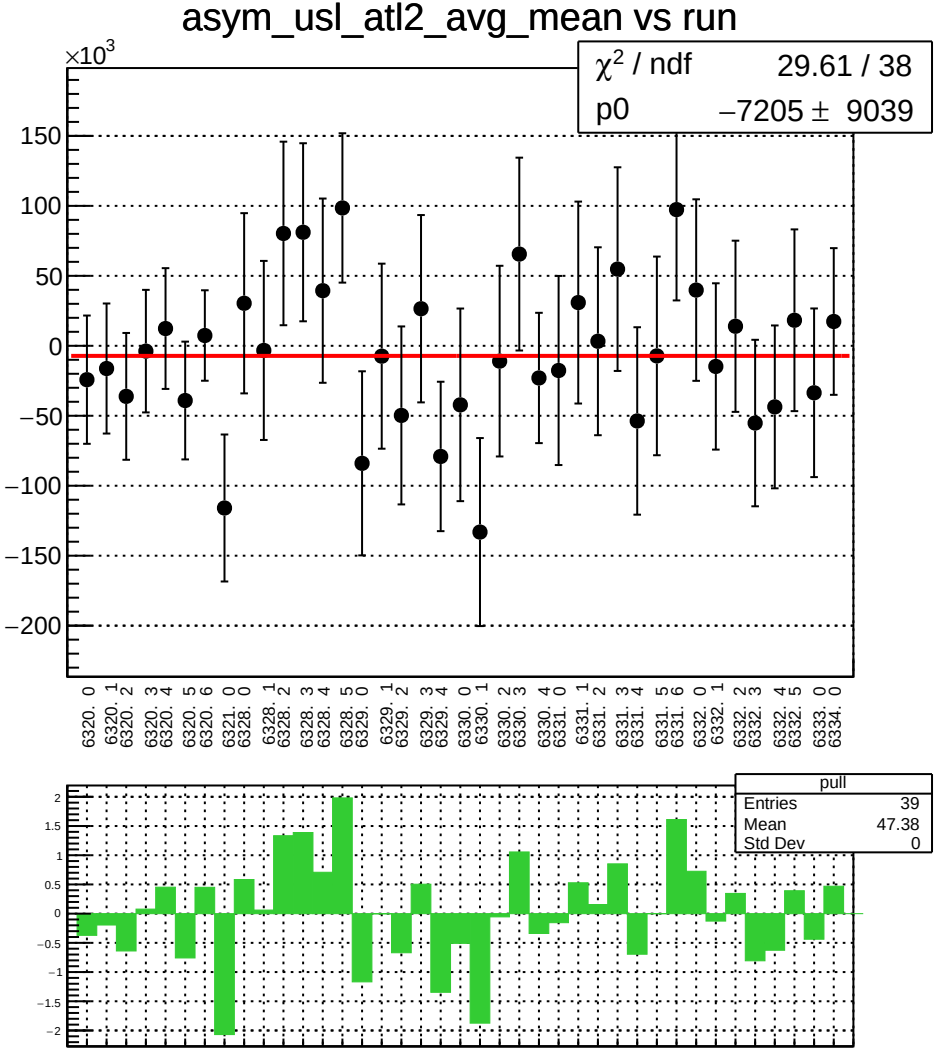

pull1D
Entries 39
Mean −0.05942
Std Dev 1.203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

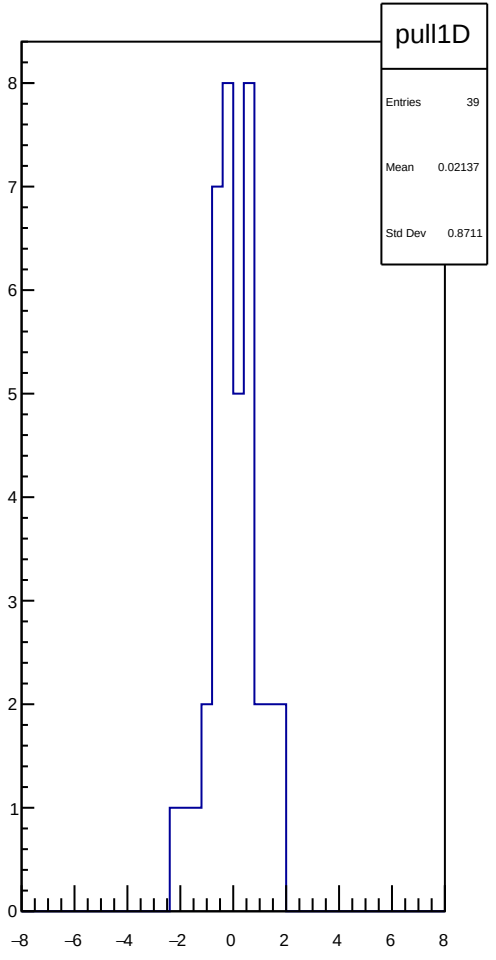

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 76.44 / 38
p0 1581 ± 1.816
1620
1600
1580
1560
1540
1520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

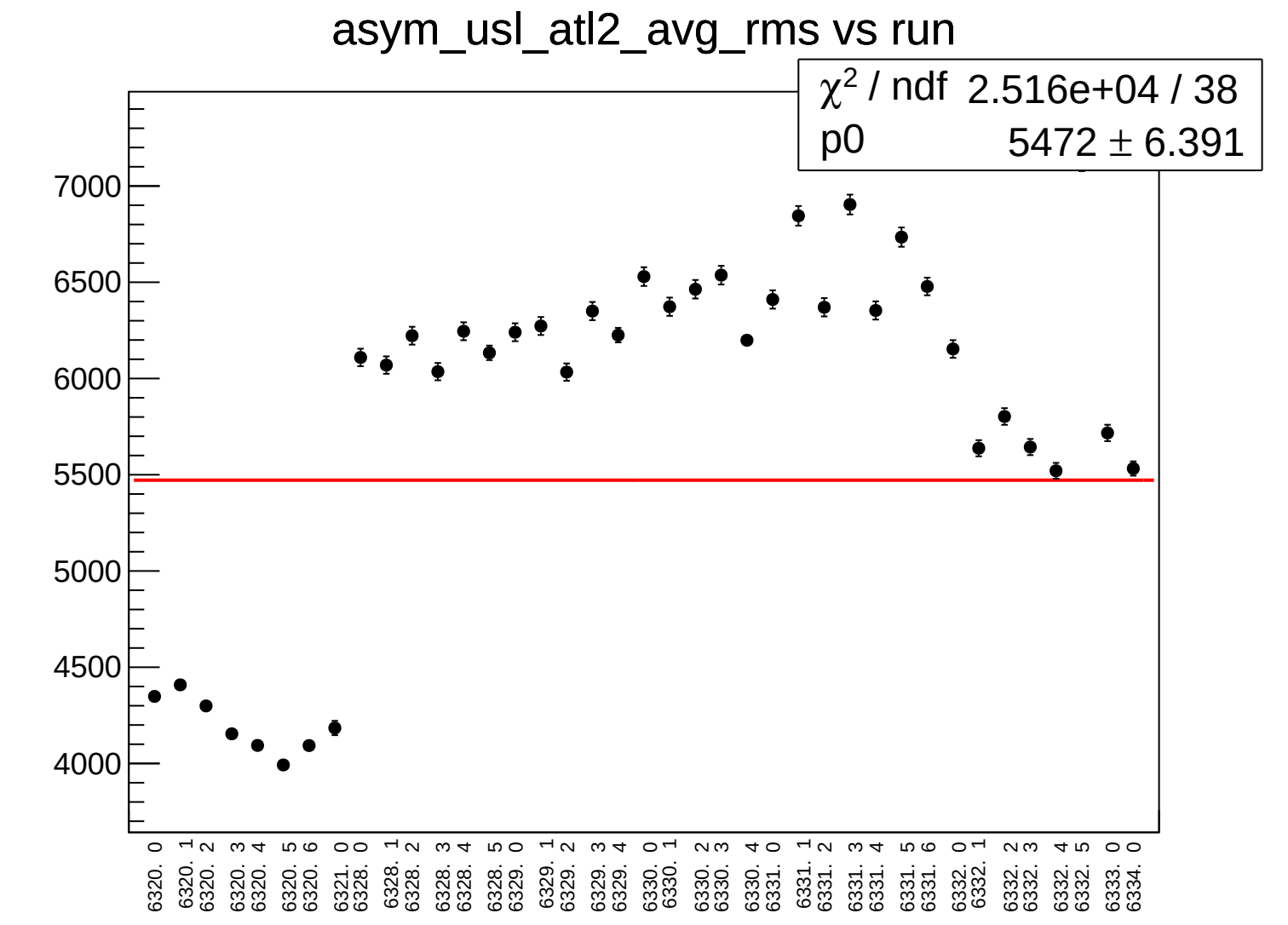

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 25.44 / 38
p0 4878 ± 8848
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

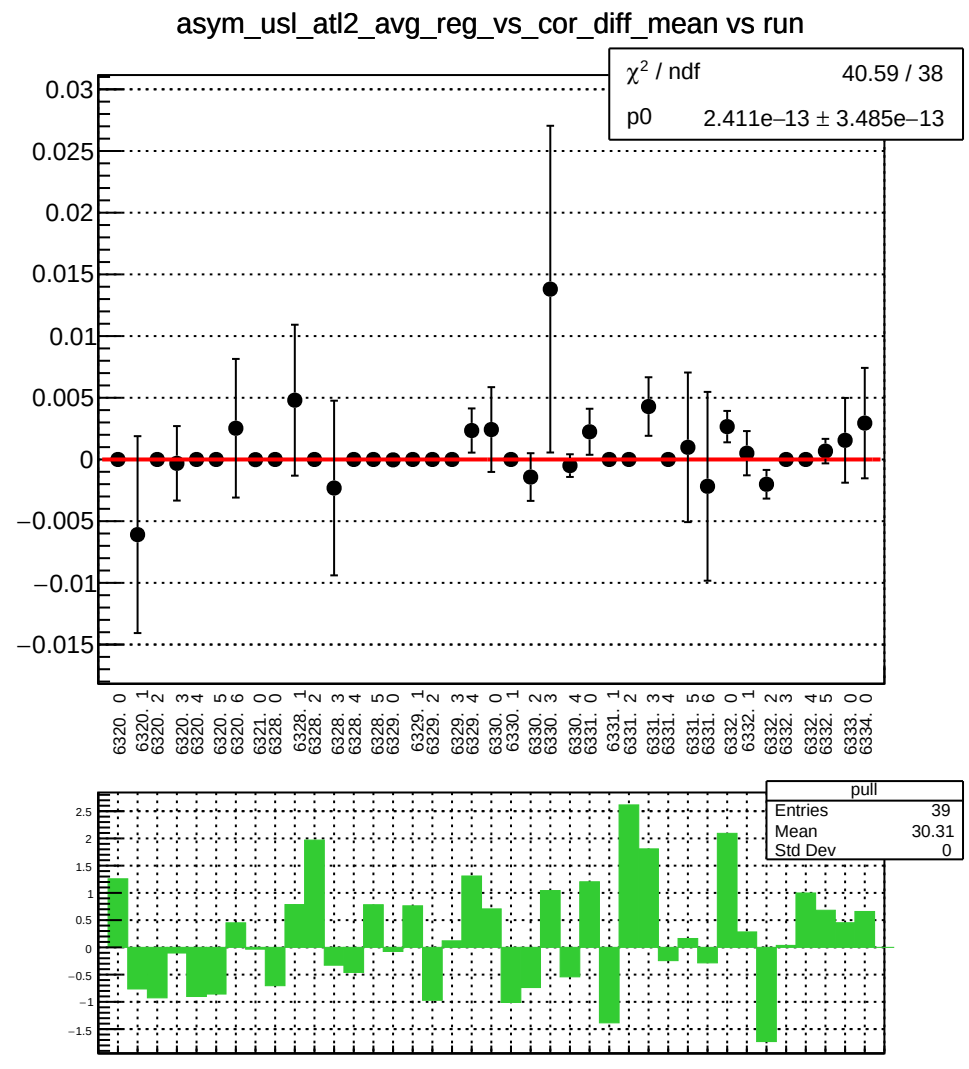

pull1D
Entries 39
Mean −0.01522
Std Dev 0.8075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

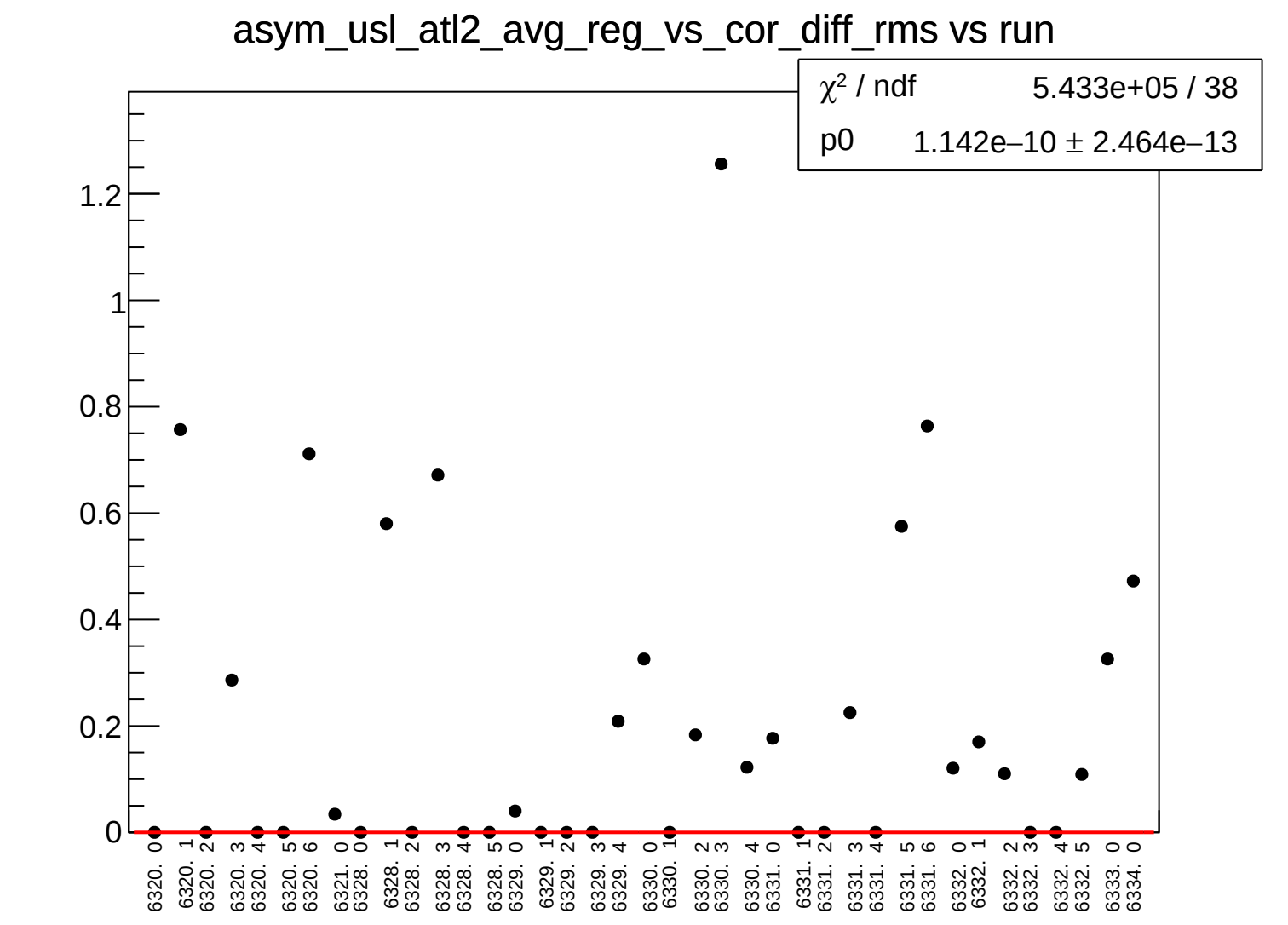

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.996e+04 / 38
p0 5339 ± 6.257
7500
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

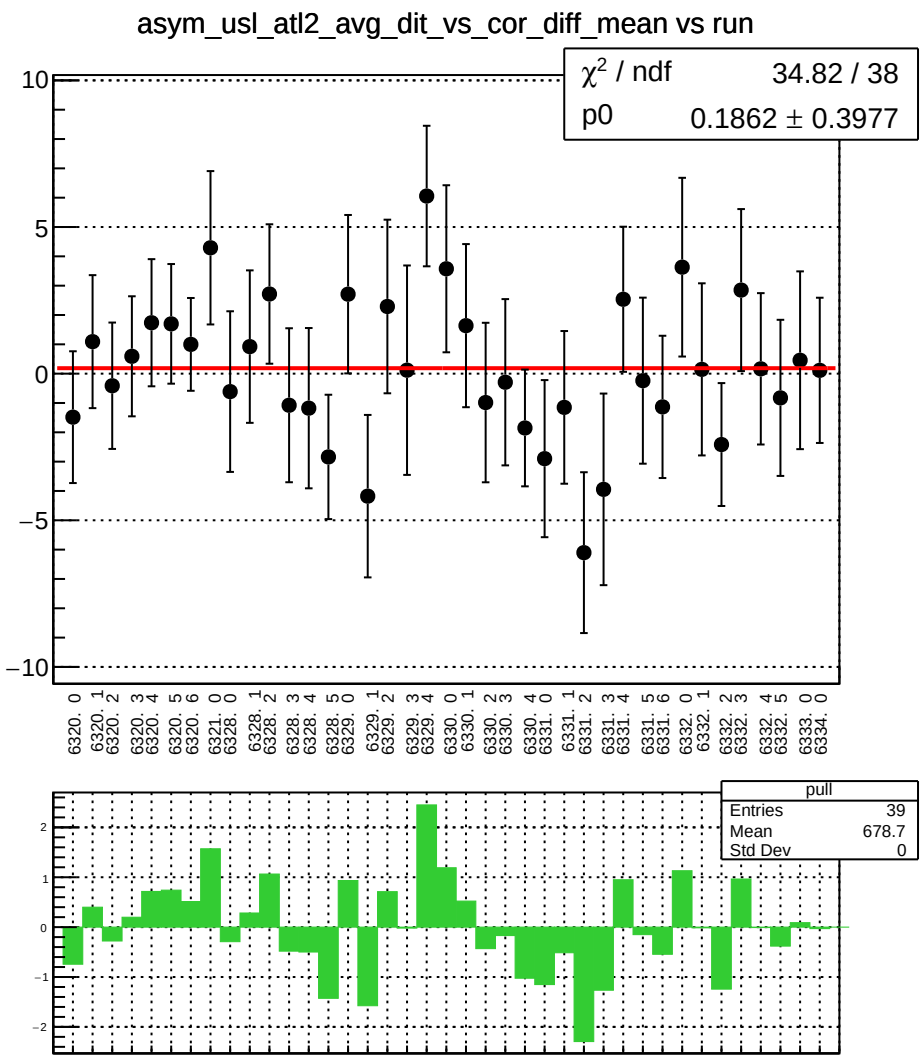

asym_usl_atl2_avg_mean vs run
χ² / ndf 29.61 / 38
p0 −7205 ± 9039
×10³
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

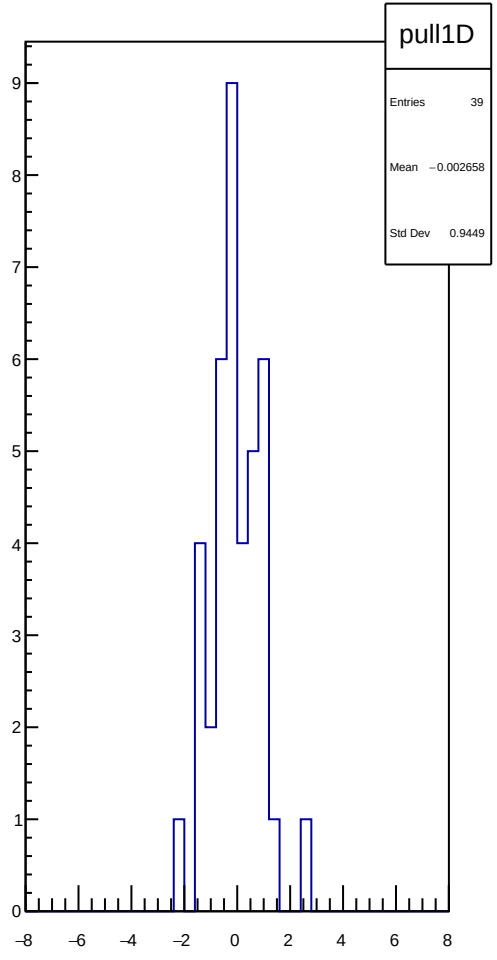

pull1D
Entries 39
Mean 0.02137
Std Dev 0.8711
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

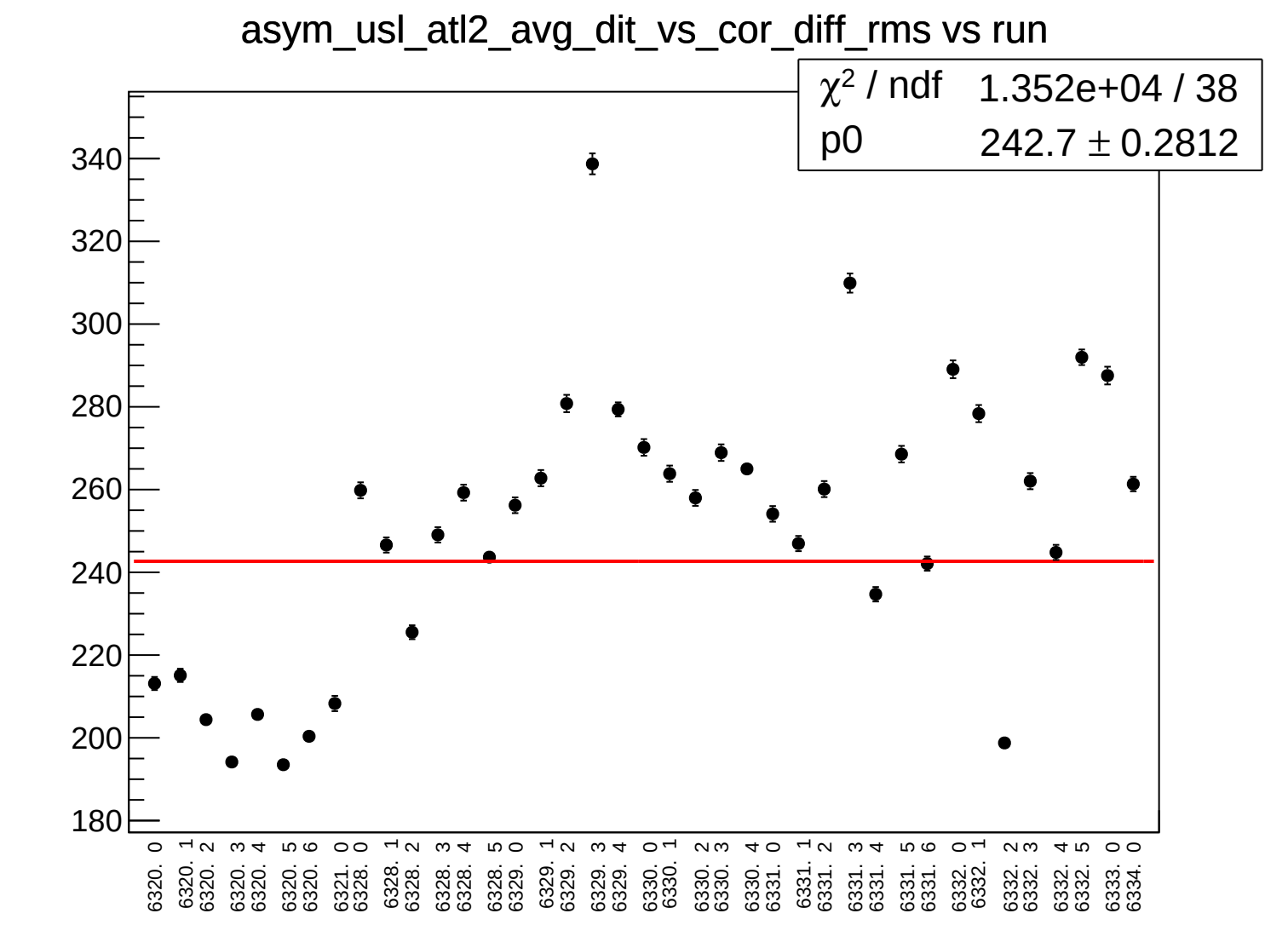

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.516e+04 / 38
p0 5472 ± 6.391
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

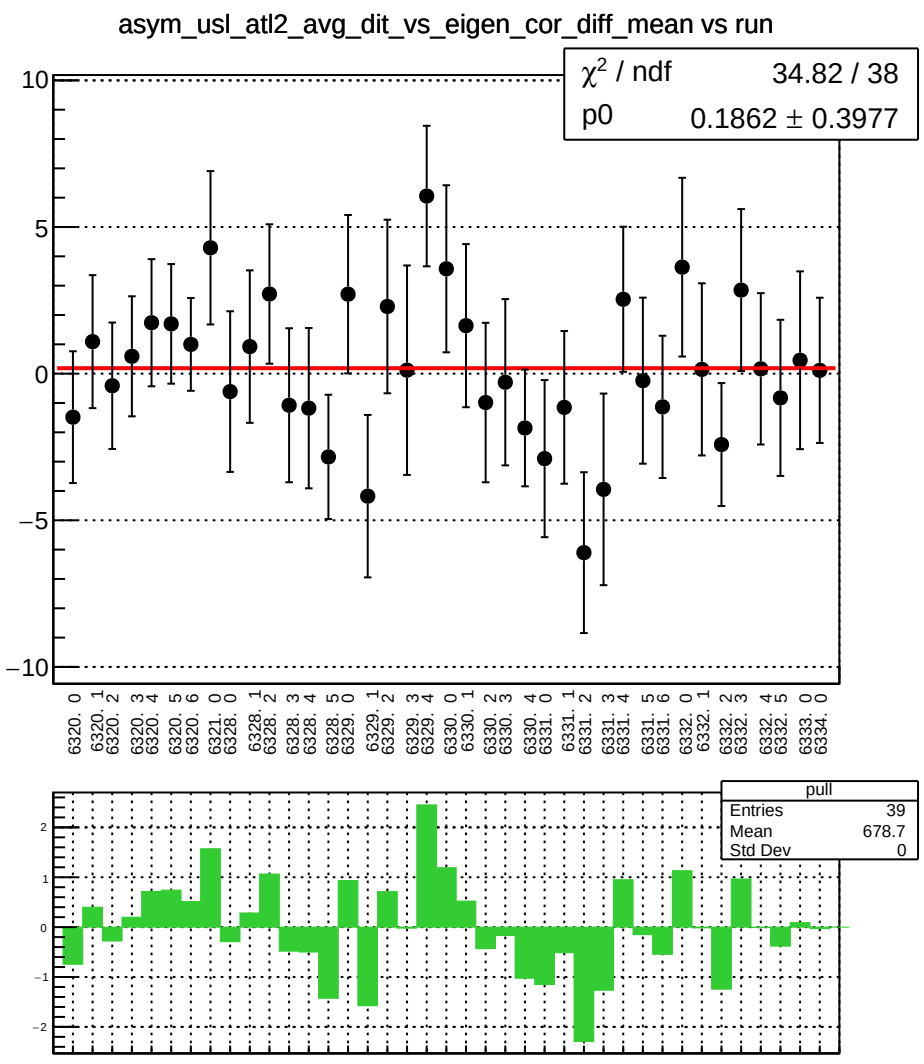

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.59 / 38
p0 2.411e−13 ± 3.485e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.2084
Std Dev 0.9987
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

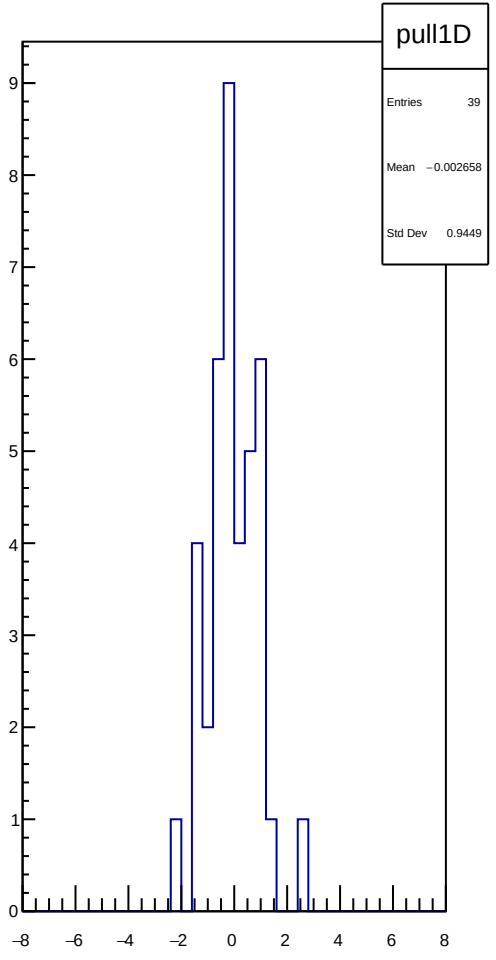

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.433e+05 / 38
p0 1.142e−10 ± 2.464e−13
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

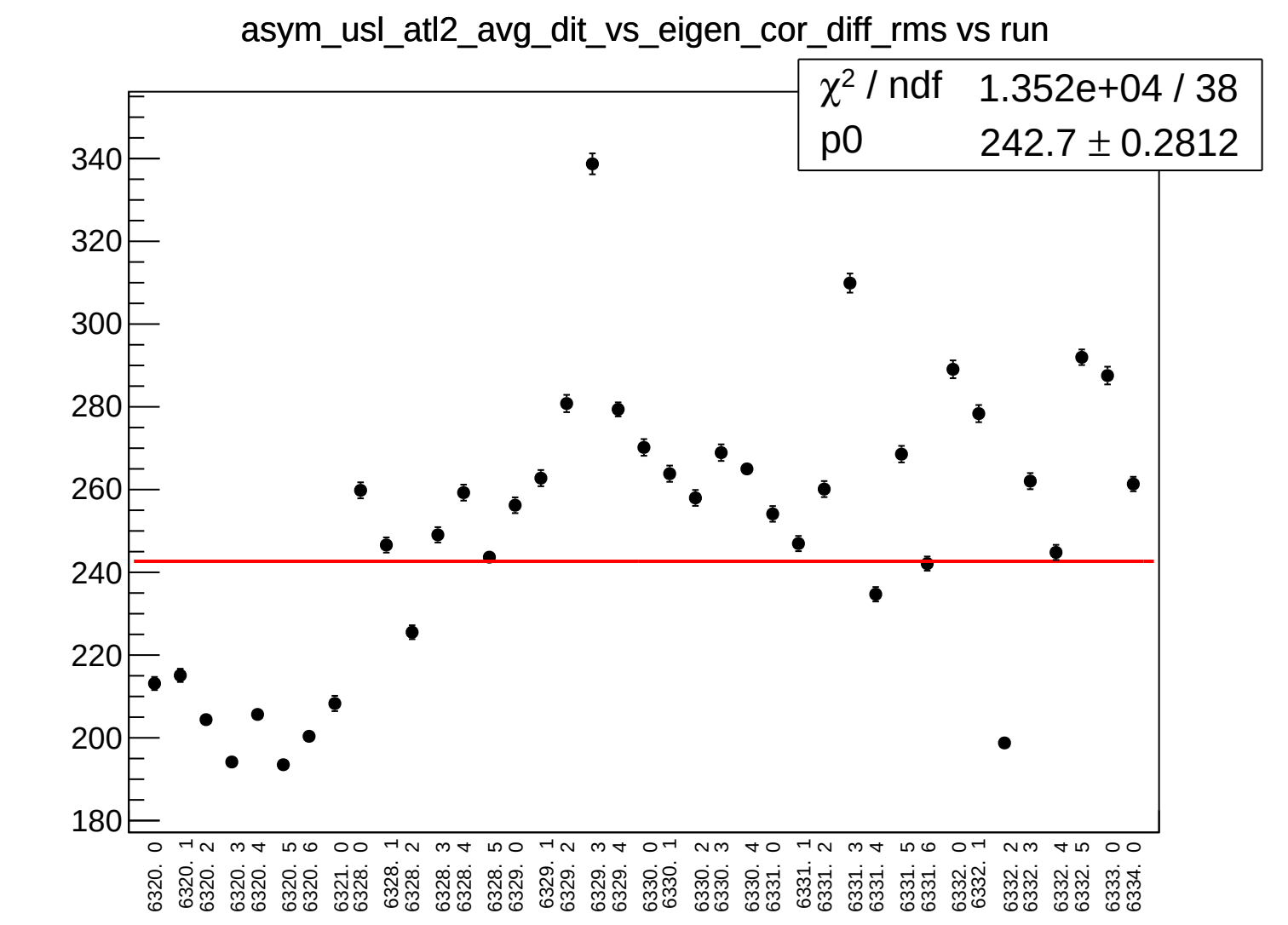

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.82 / 38
p0 0.1862 ± 0.3977
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 678.7
Std Dev 0
2
1
0
−1
−2

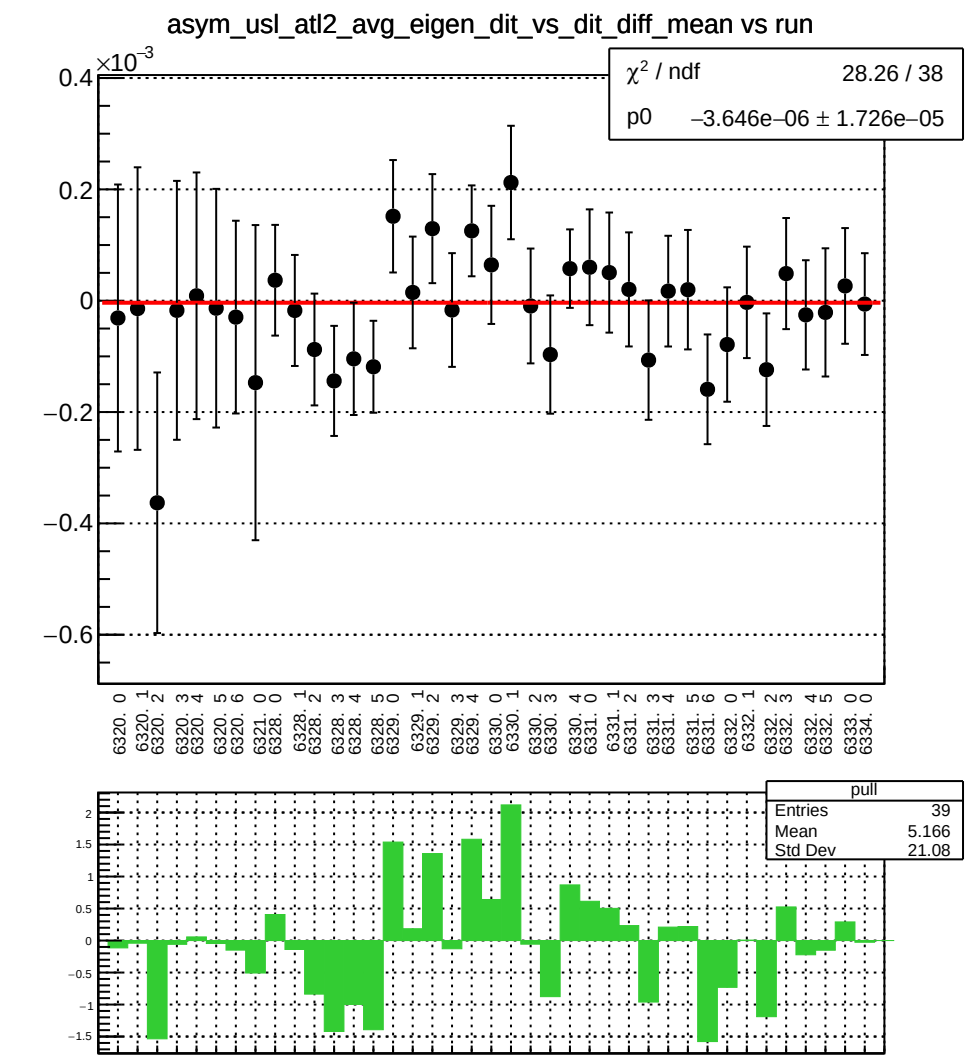

pull1D
Entries 39
Mean −0.002658
Std Dev 0.9449
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

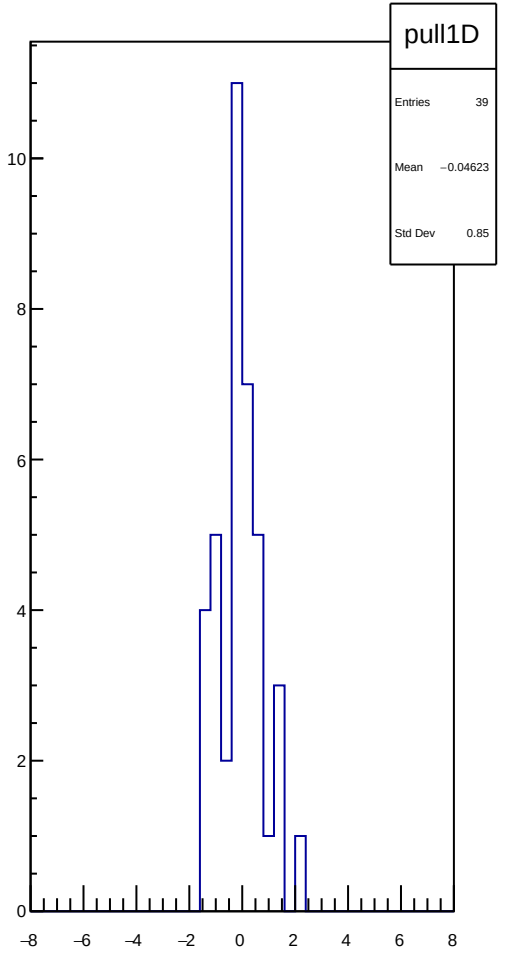

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 38
p0 242.7 ± 0.2812
340
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

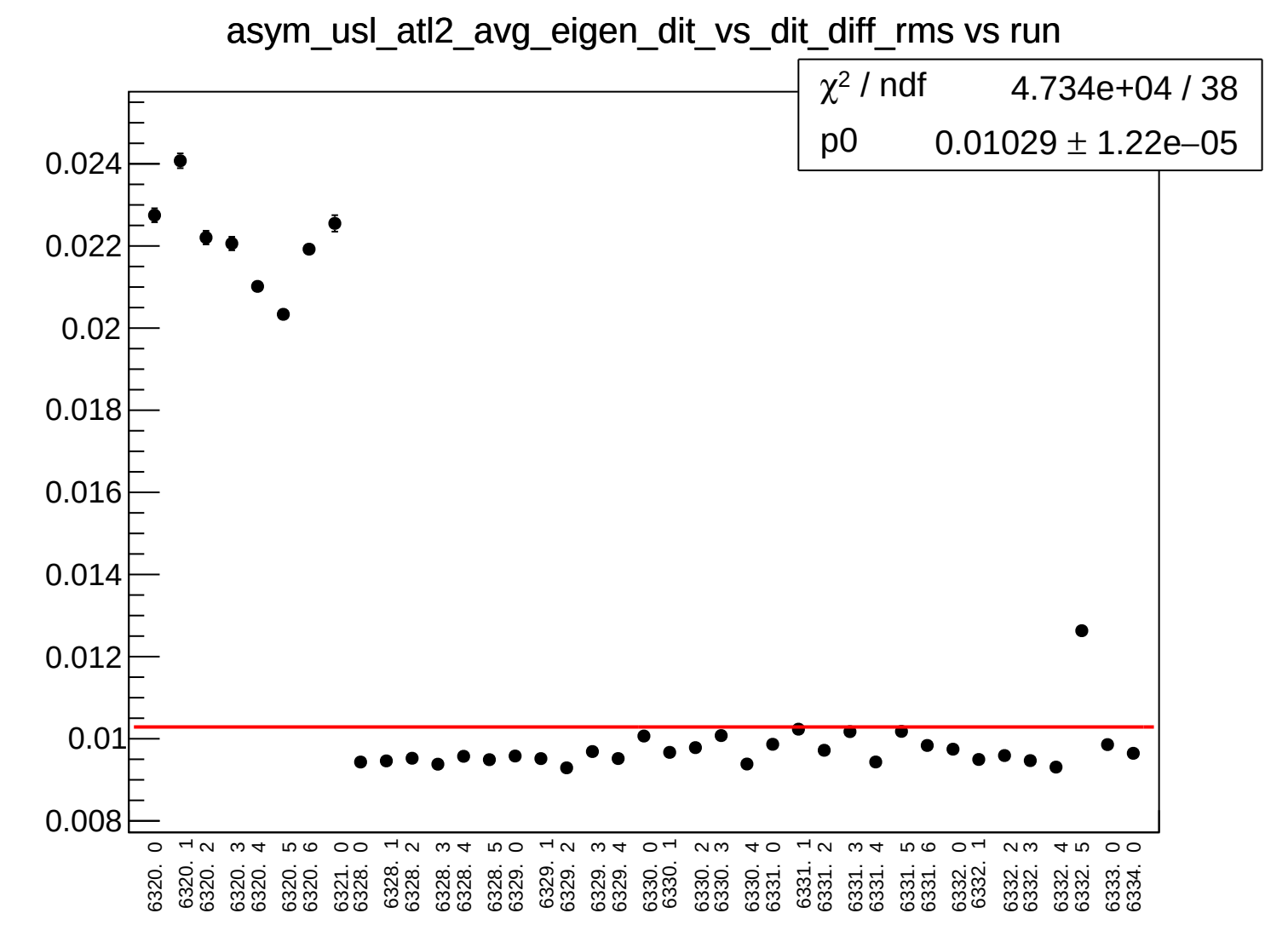

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.82 / 38
p0 0.1862 ± 0.3977
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 678.7
Std Dev 0
2
1
0
−1
−2

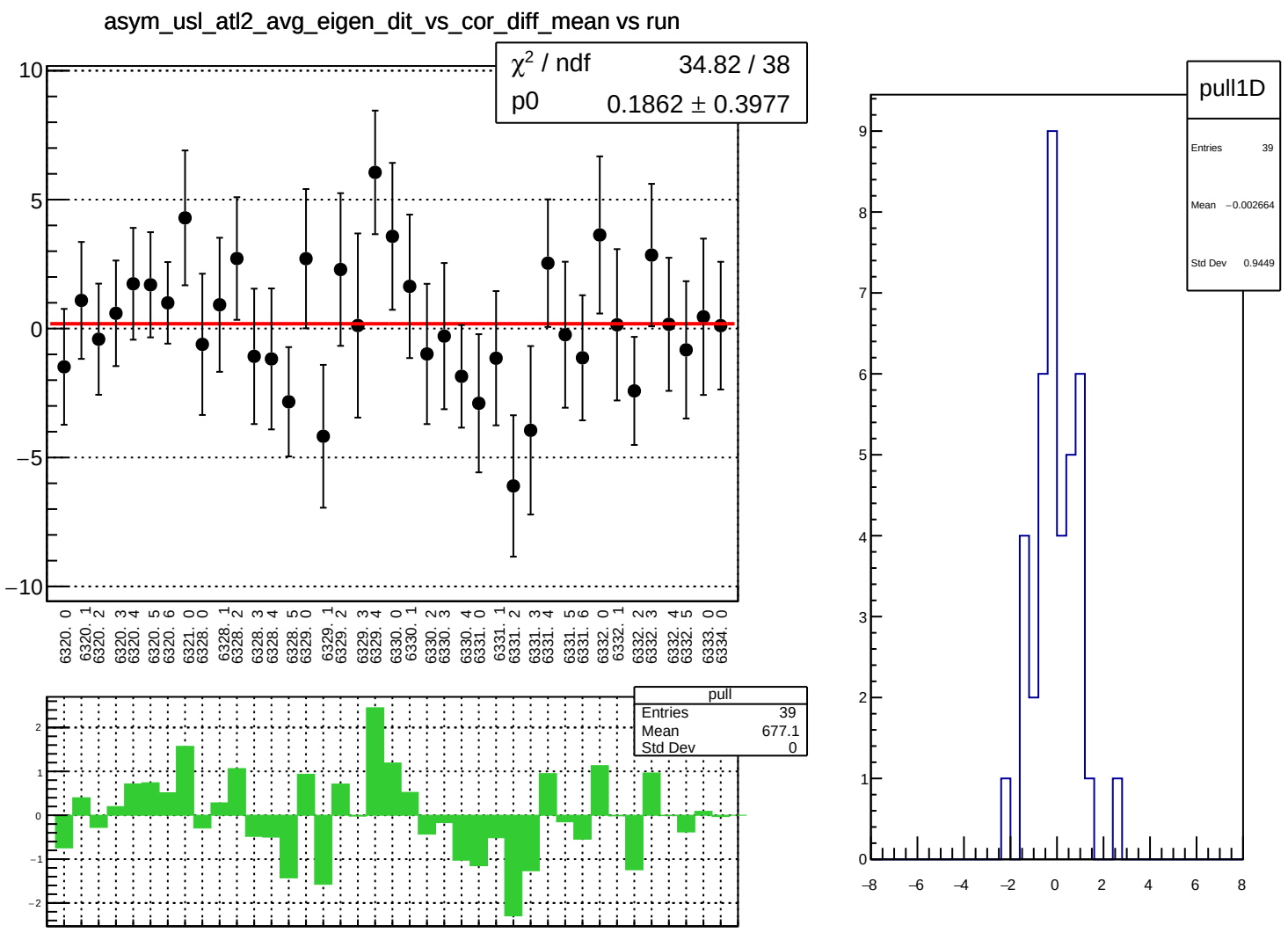

pull1D
Entries 39
Mean −0.002658
Std Dev 0.9449
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

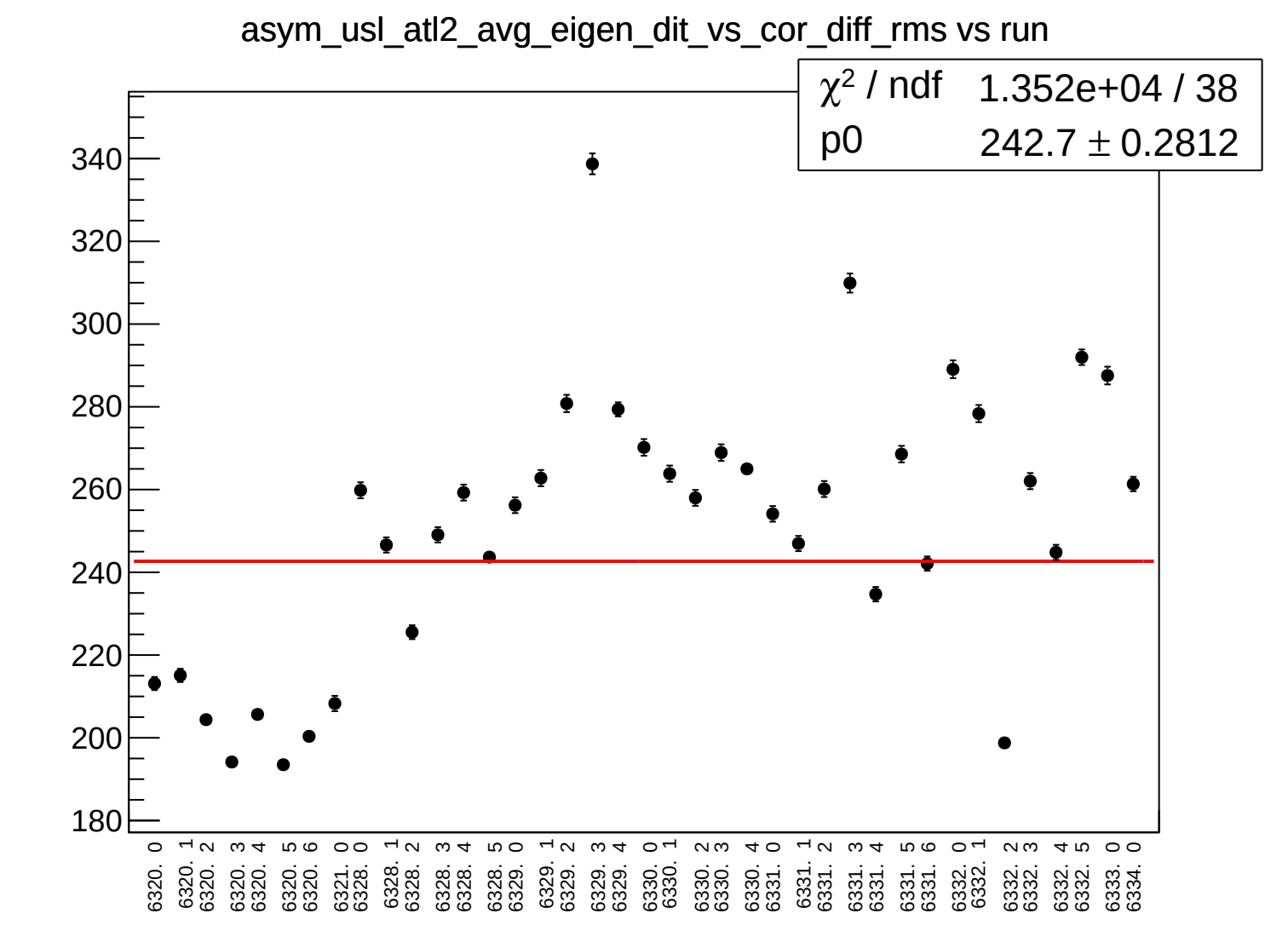

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 38
p0 242.7 ± 0.2812
340
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

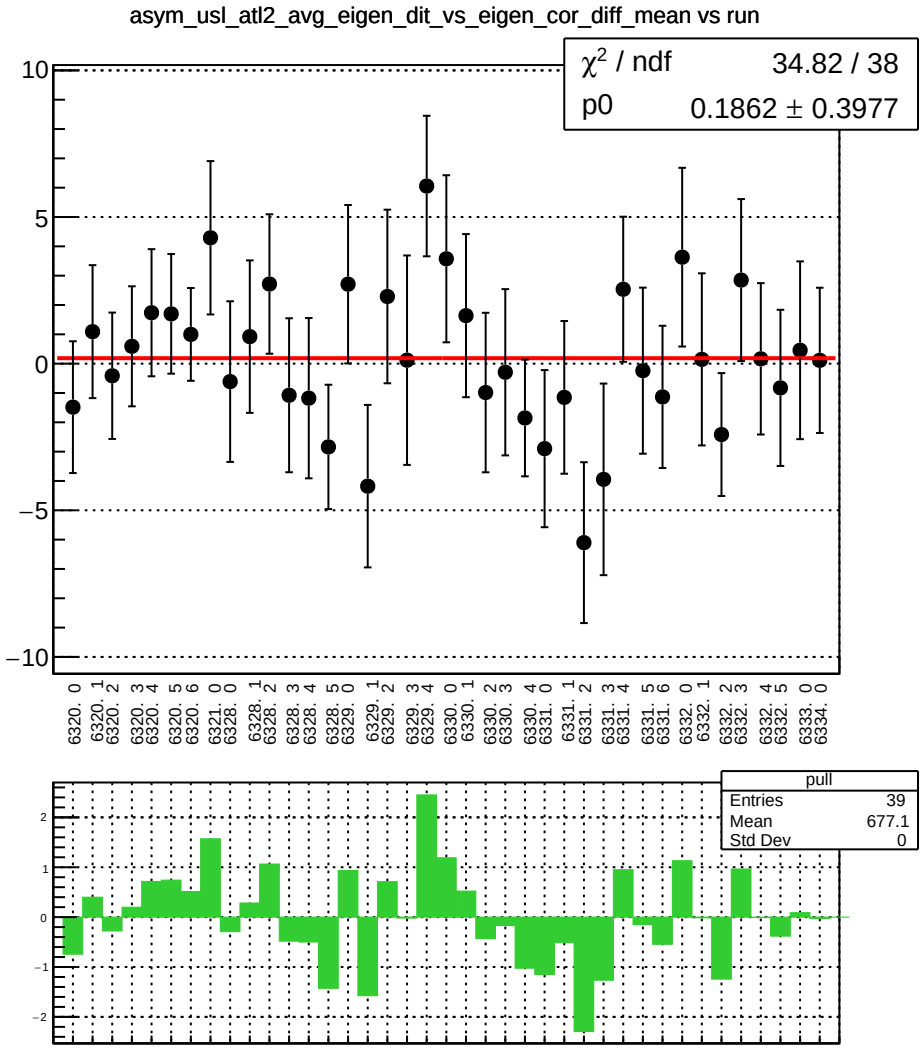

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.26 / 38
p0 −3.646e−06 ± 1.726e−05
pull
Entries 39
Mean 5.166
Std Dev 21.08

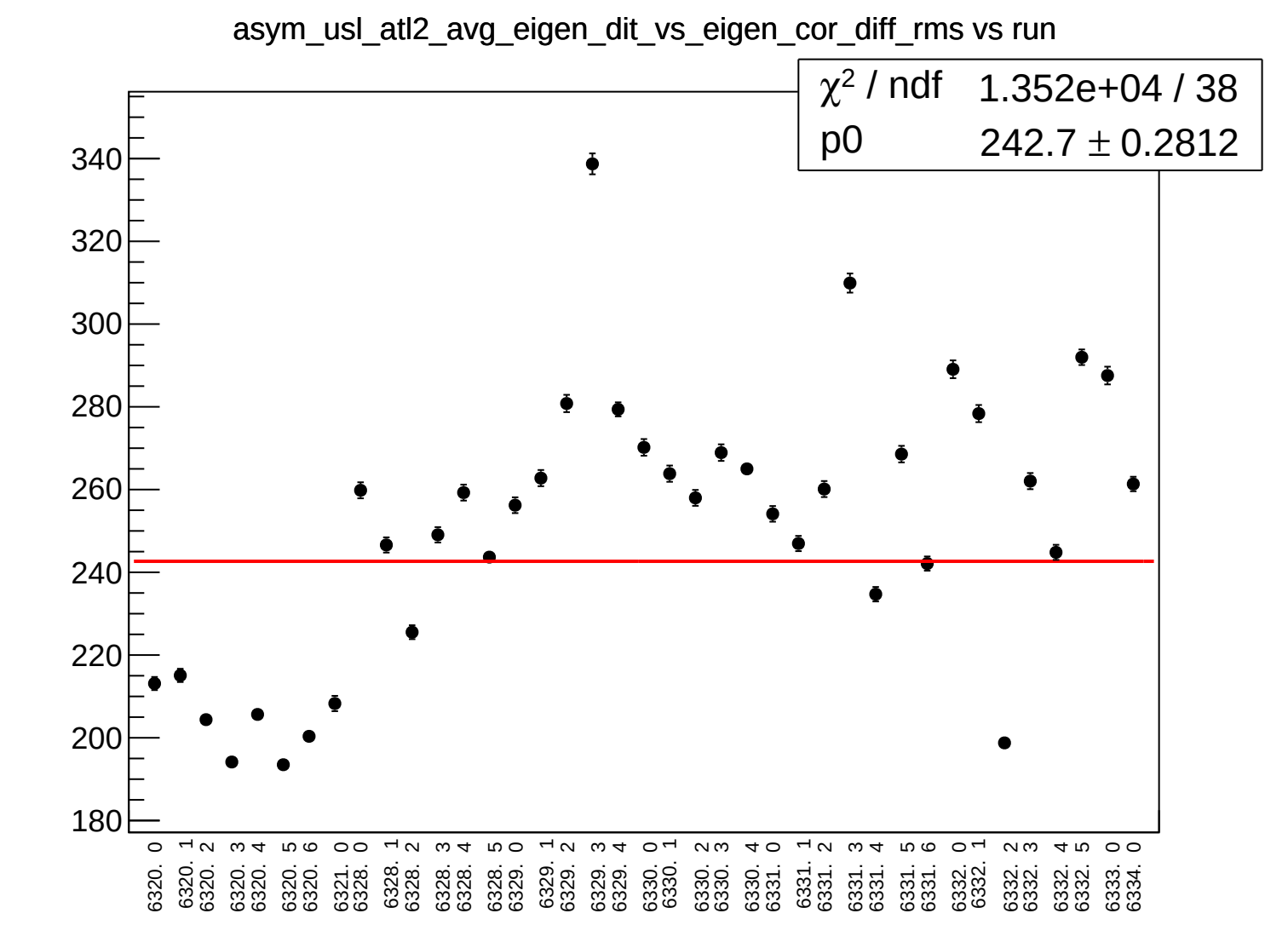

pull1D
Entries 39
Mean −0.04623
Std Dev 0.85

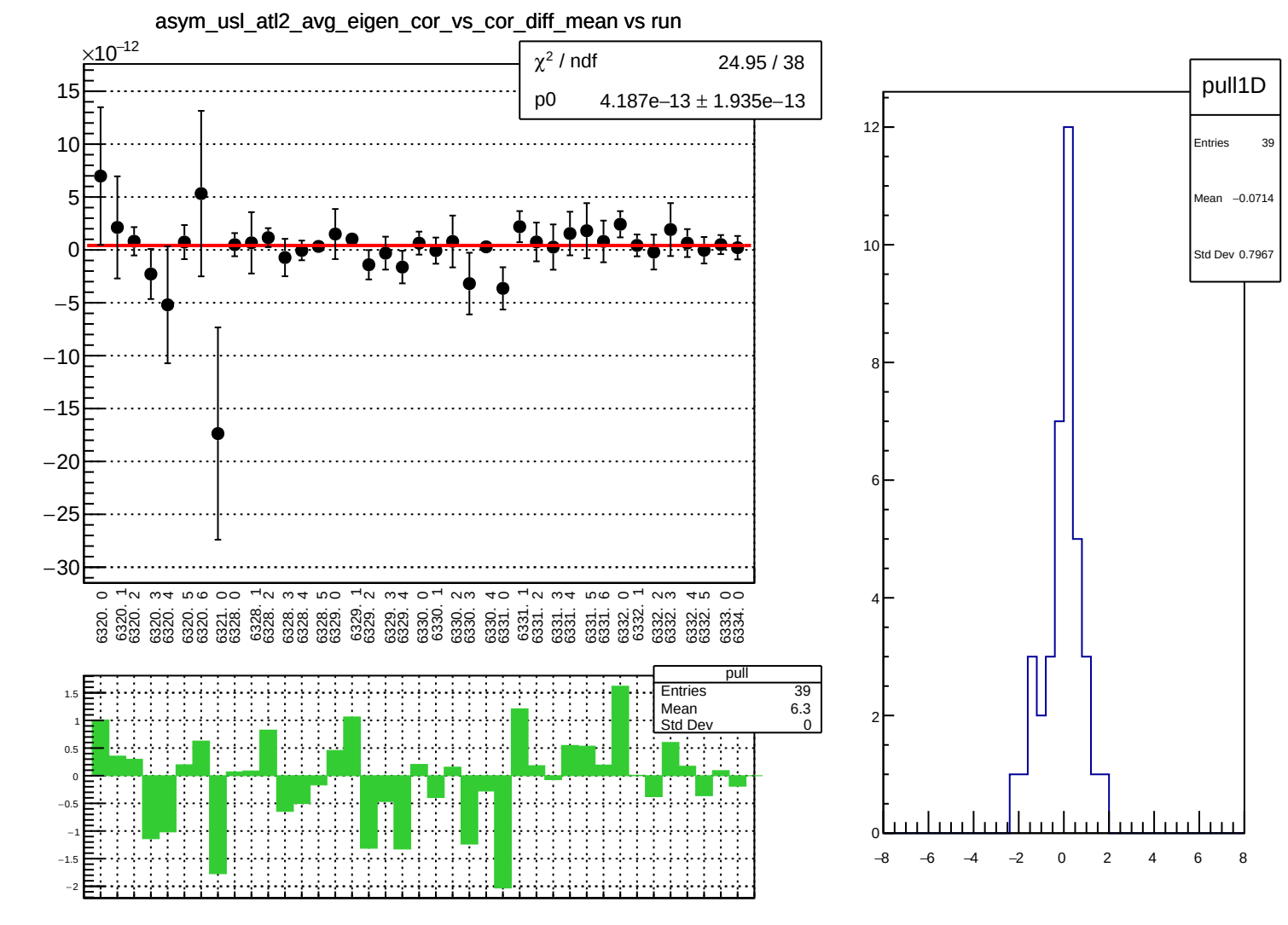

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.734e+04 / 38
p0 0.01029 ± 1.22e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

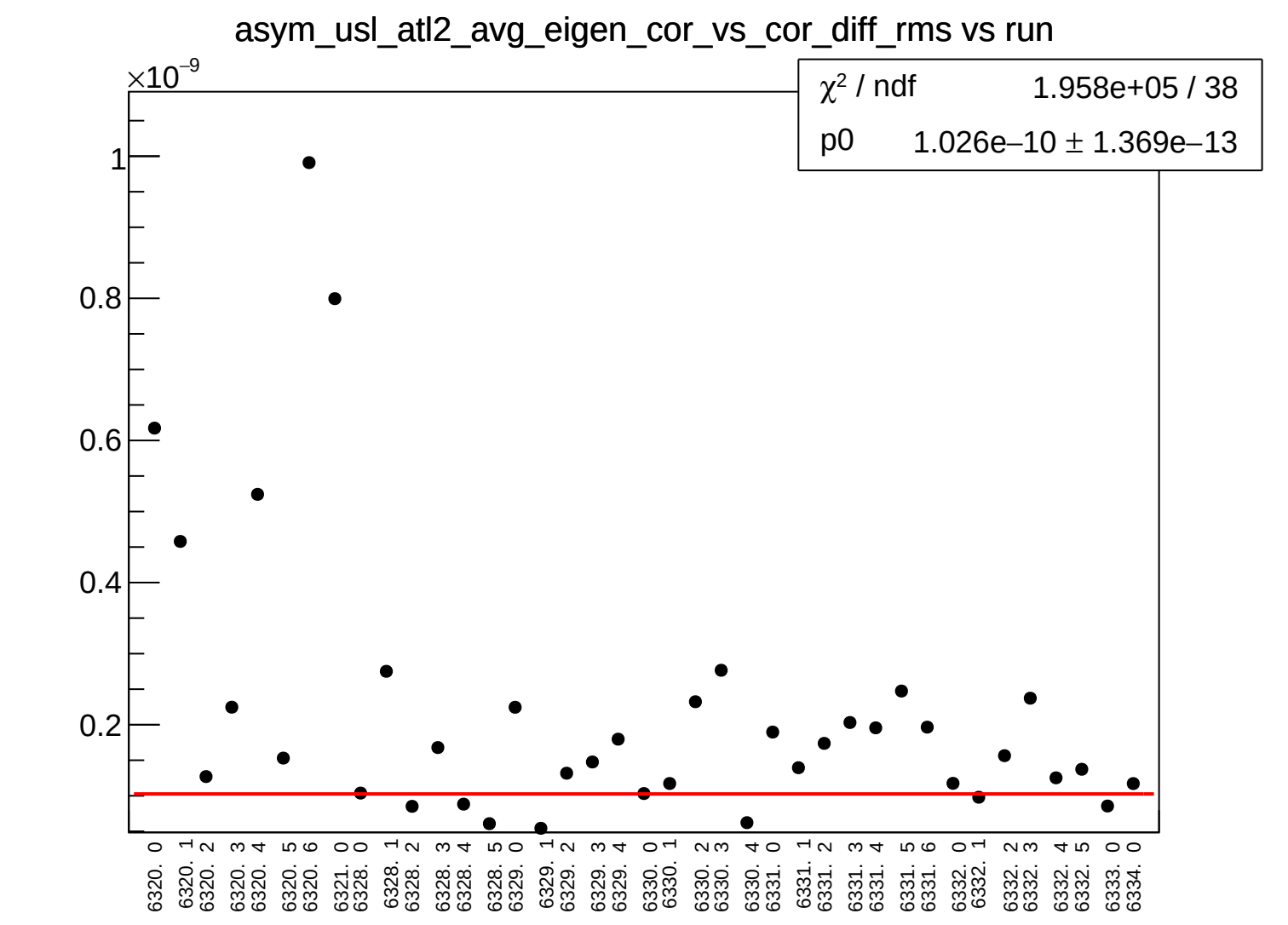

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.82 / 38
p0 0.1862 ± 0.3977
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 677.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.002664
Std Dev 0.9449
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

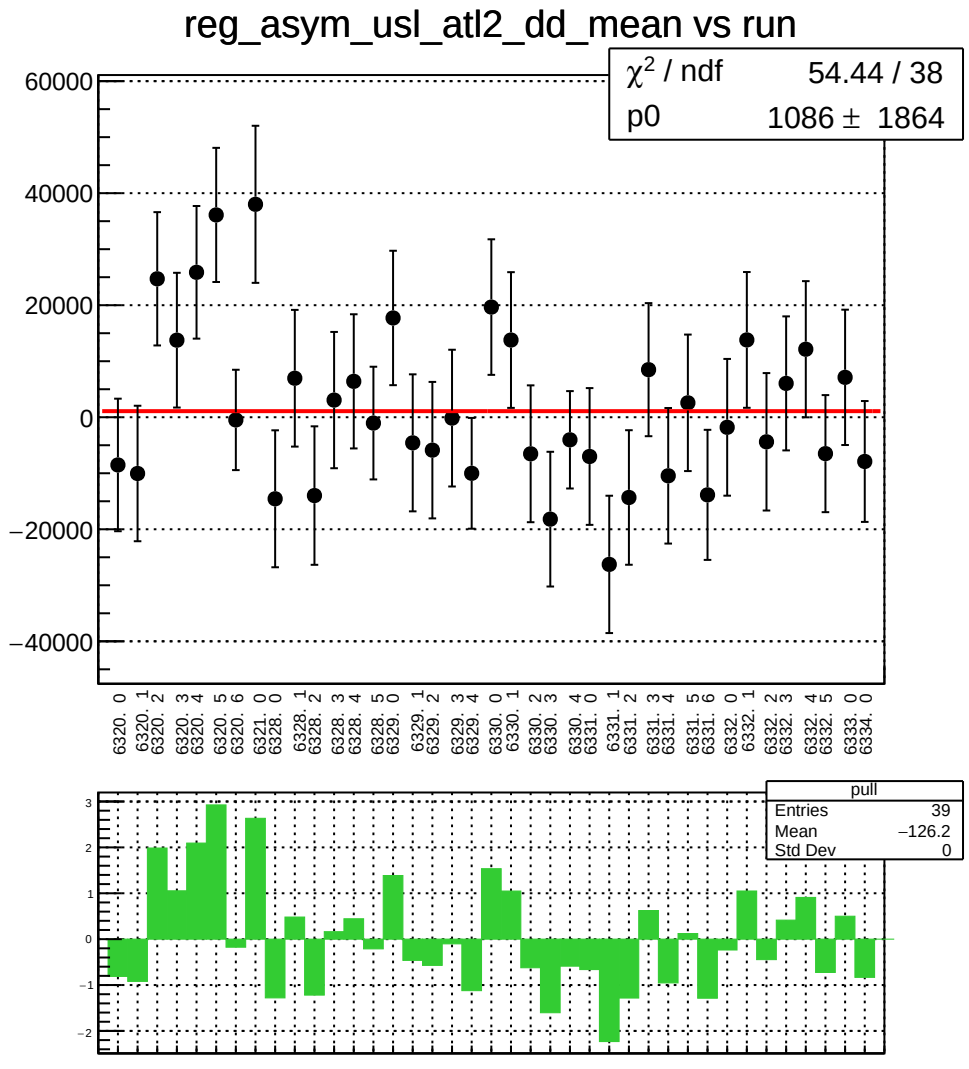

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 38
p0 242.7 ± 0.2812
340
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

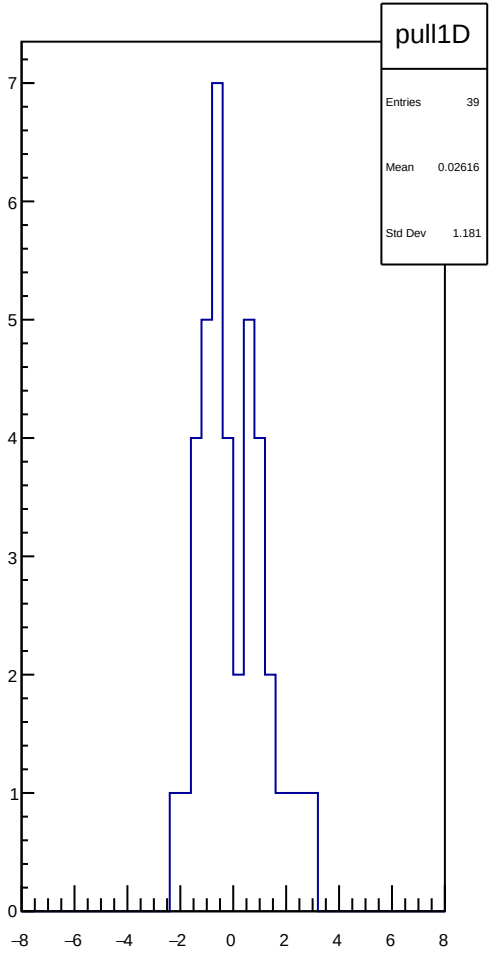

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.82 / 38
p0 0.1862 ± 0.3977
pull
Entries 39
Mean 677.1
Std Dev 0
pull1D
Entries 39
Mean −0.002664
Std Dev 0.9449

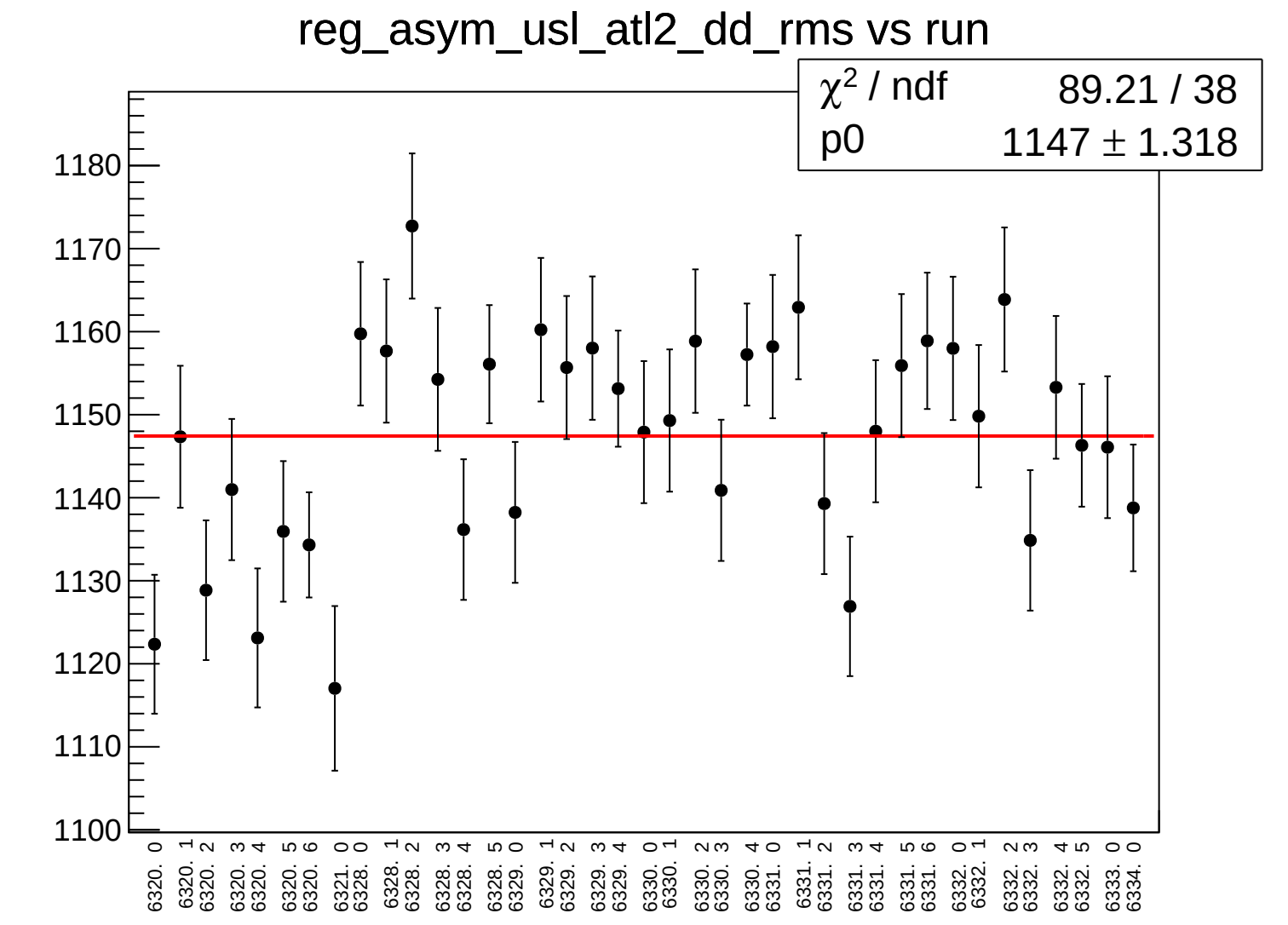

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+04 / 38
p0 242.7 ± 0.2812
340
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

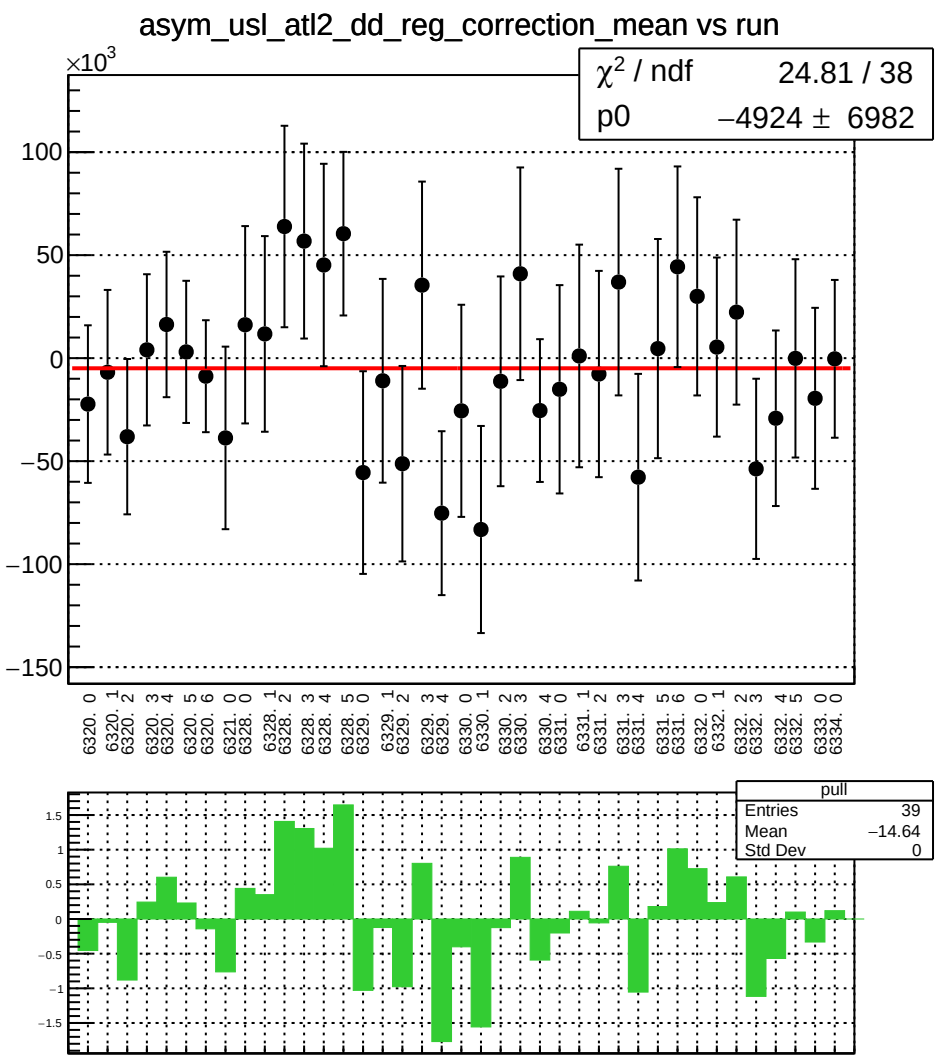

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 24.95 / 38
p0 4.187e−13 ± 1.935e−13
15
10
5
0
−5
−10
−15
−20
−25
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.0714
Std Dev 0.7967
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

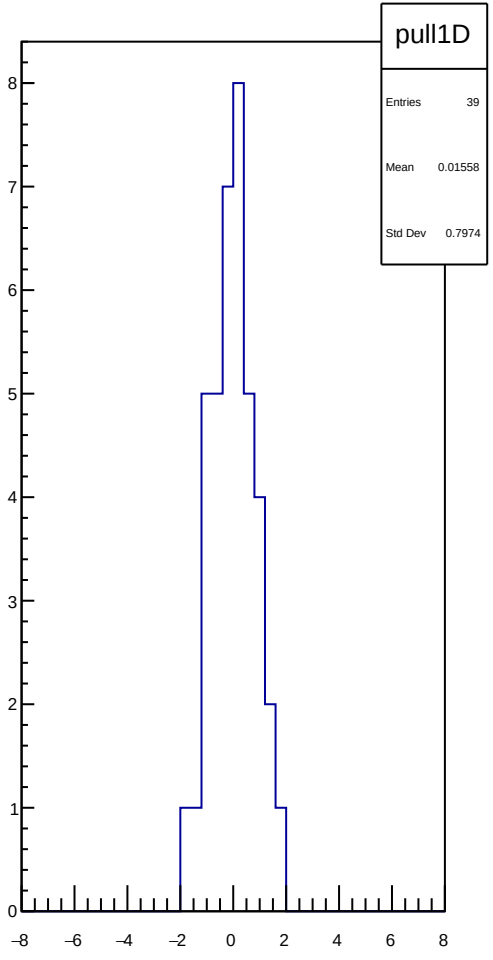

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.958e+05 / 38
p0 1.026e−10 ± 1.369e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

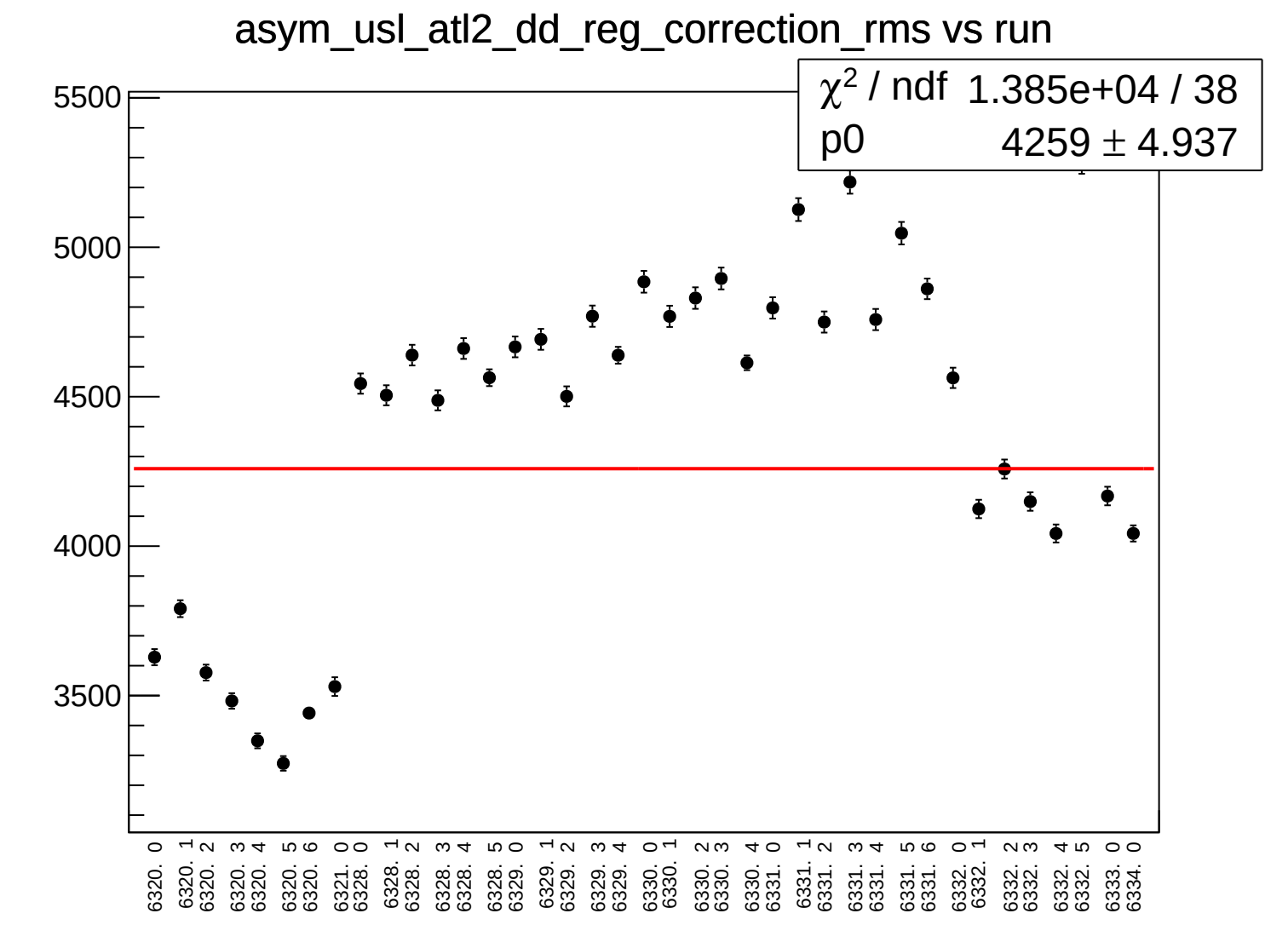

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 54.44 / 38
p0 1086 ± 1864
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −126.2
Std Dev 0
3
2
1
0
−1
−2

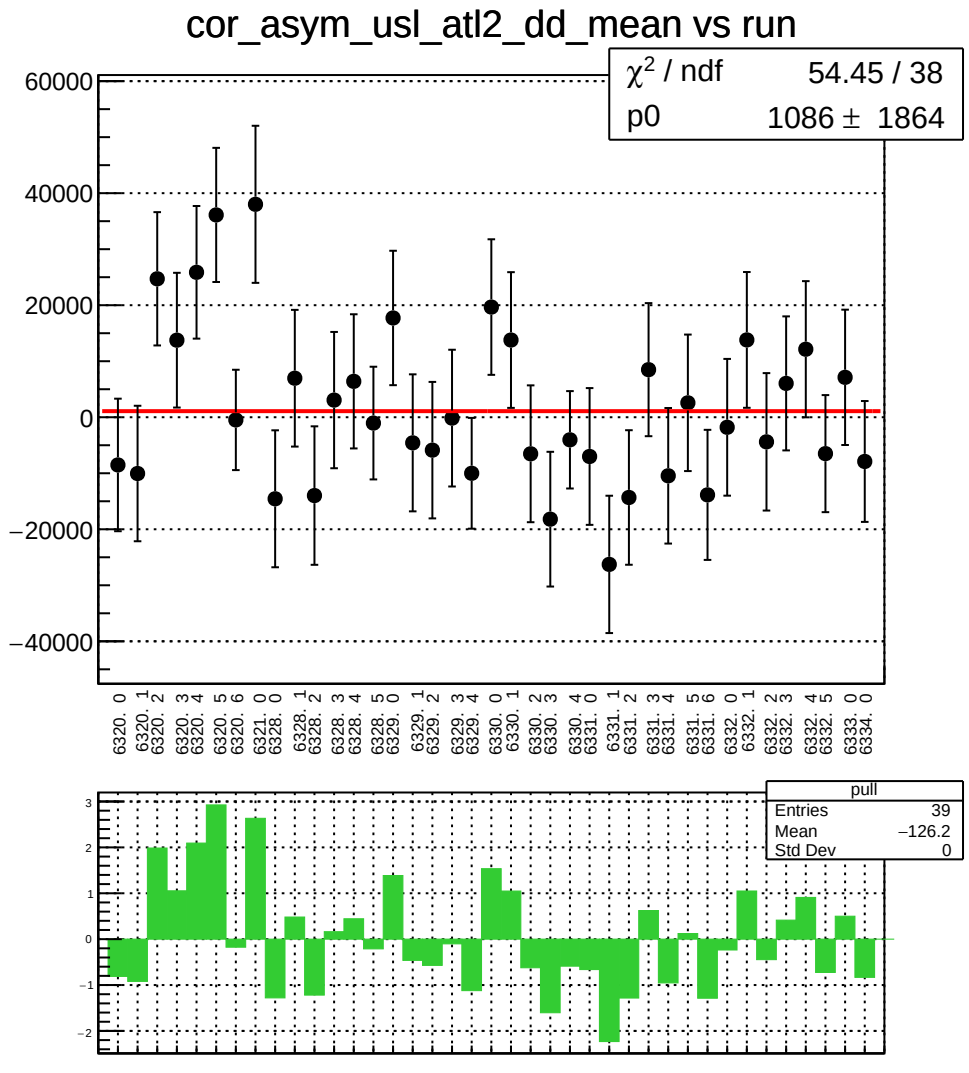

pull1D
Entries 39
Mean 0.02616
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

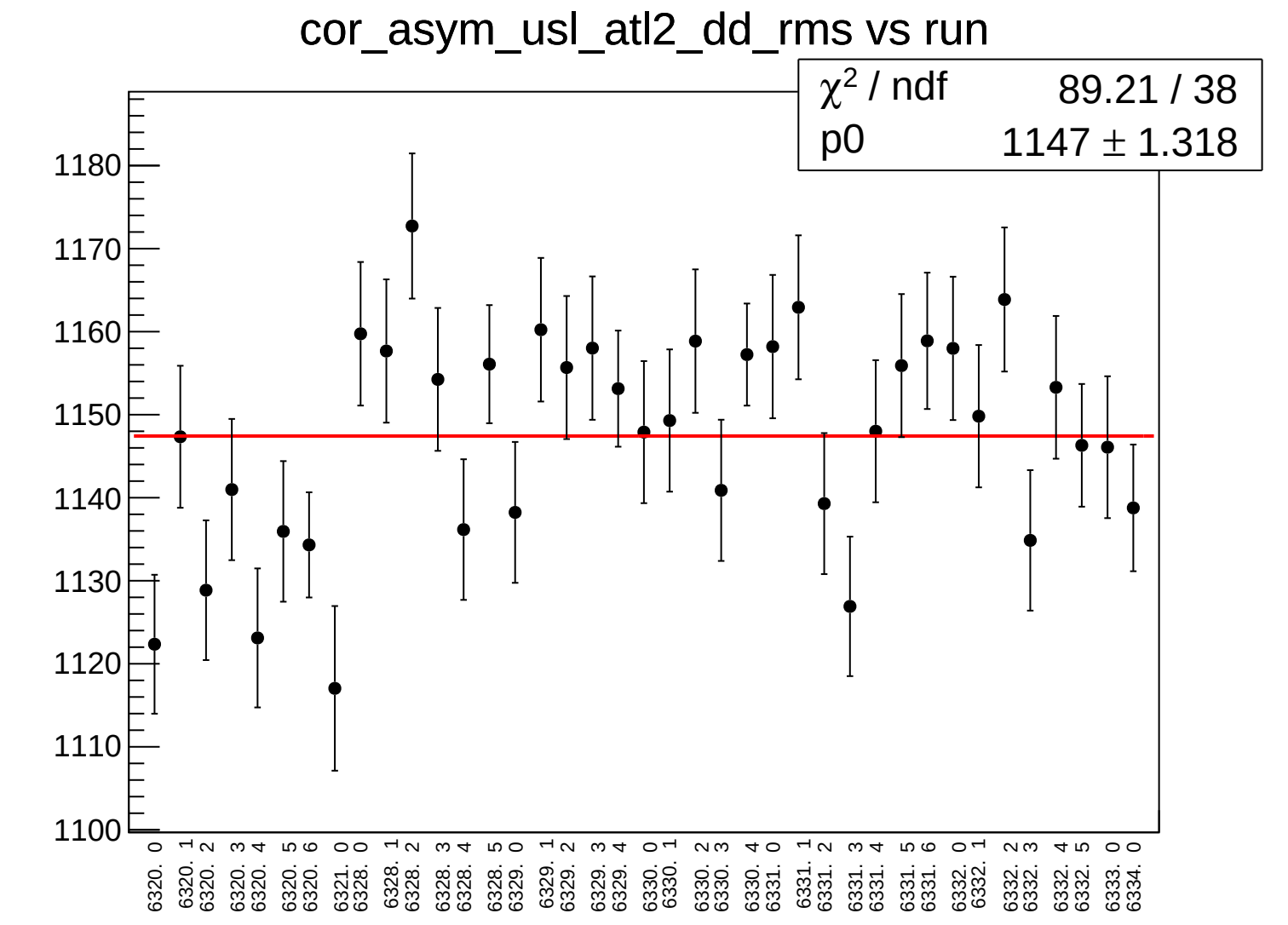

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 89.21 / 38
p0 1147 ± 1.318
1180
1170
1160
1150
1140
1130
1120
1110
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

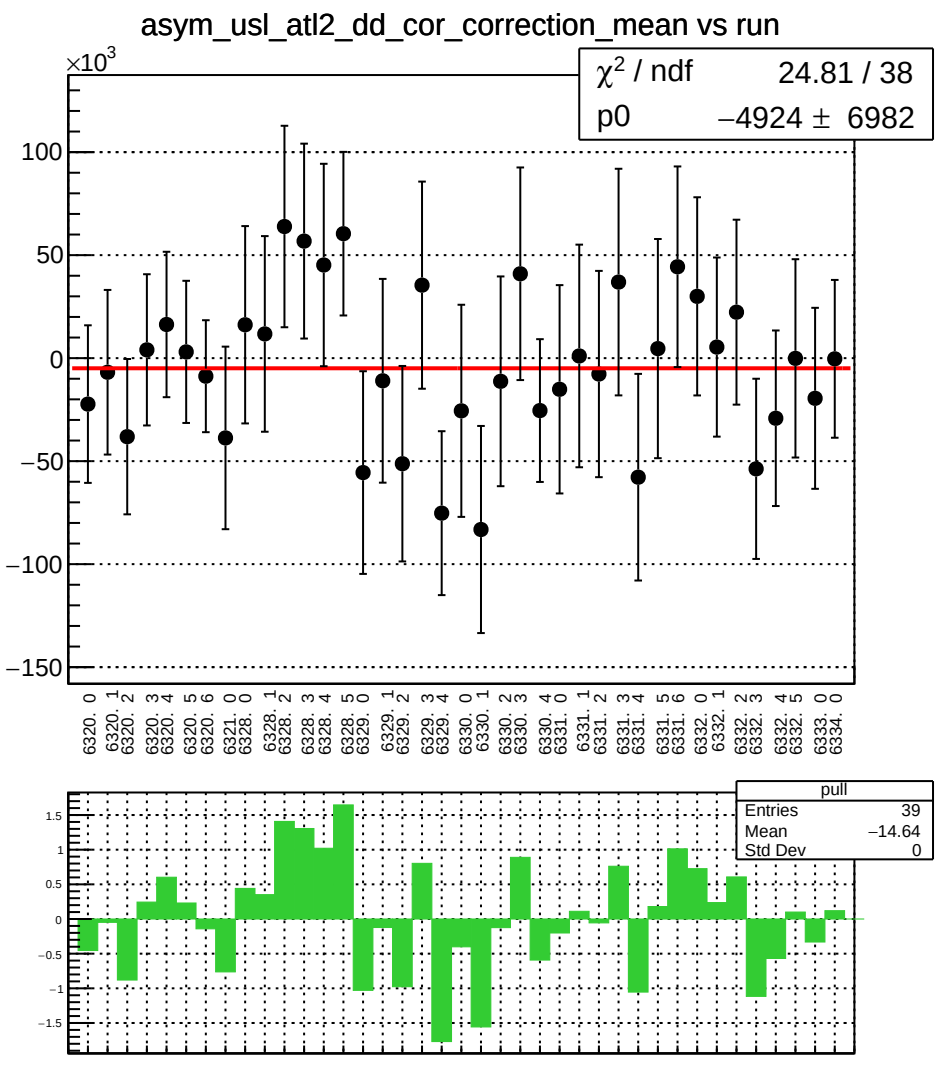

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −4924 ± 6982
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

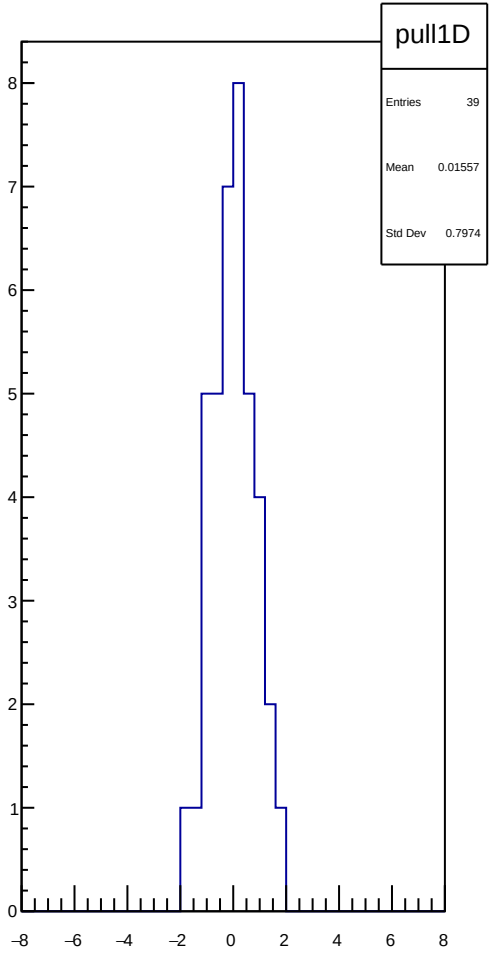

pull1D
Entries 39
Mean 0.01558
Std Dev 0.7974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

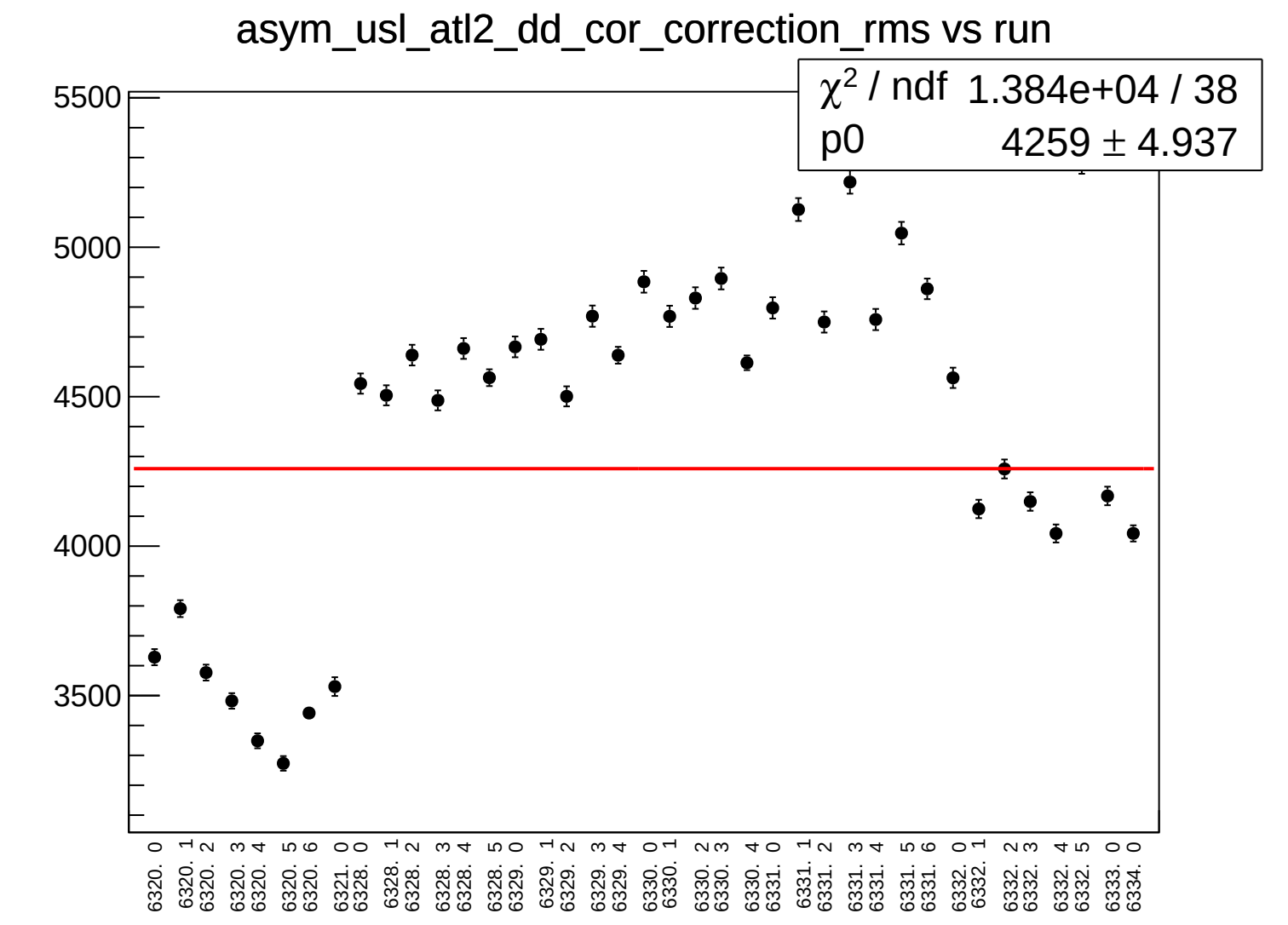

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.385e+04 / 38
p0 4259 ± 4.937
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

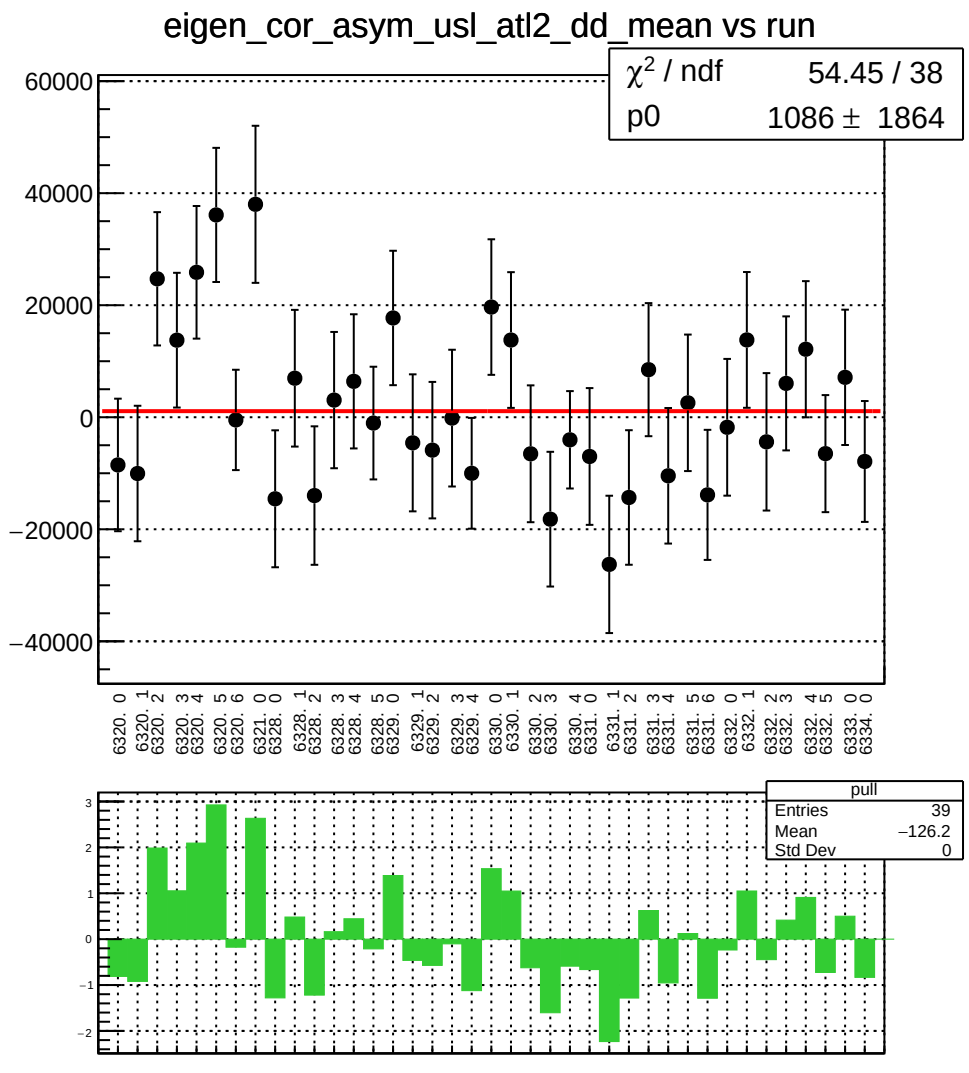

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 54.45 / 38
p0 1086 ± 1864
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −126.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02616
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

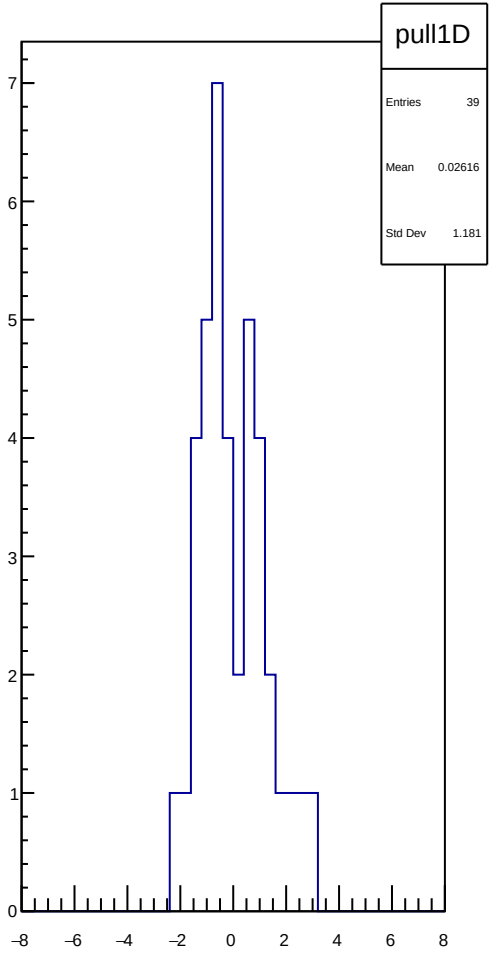

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 89.21 / 38
p0 1147 ± 1.318
1180
1170
1160
1150
1140
1130
1120
1110
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

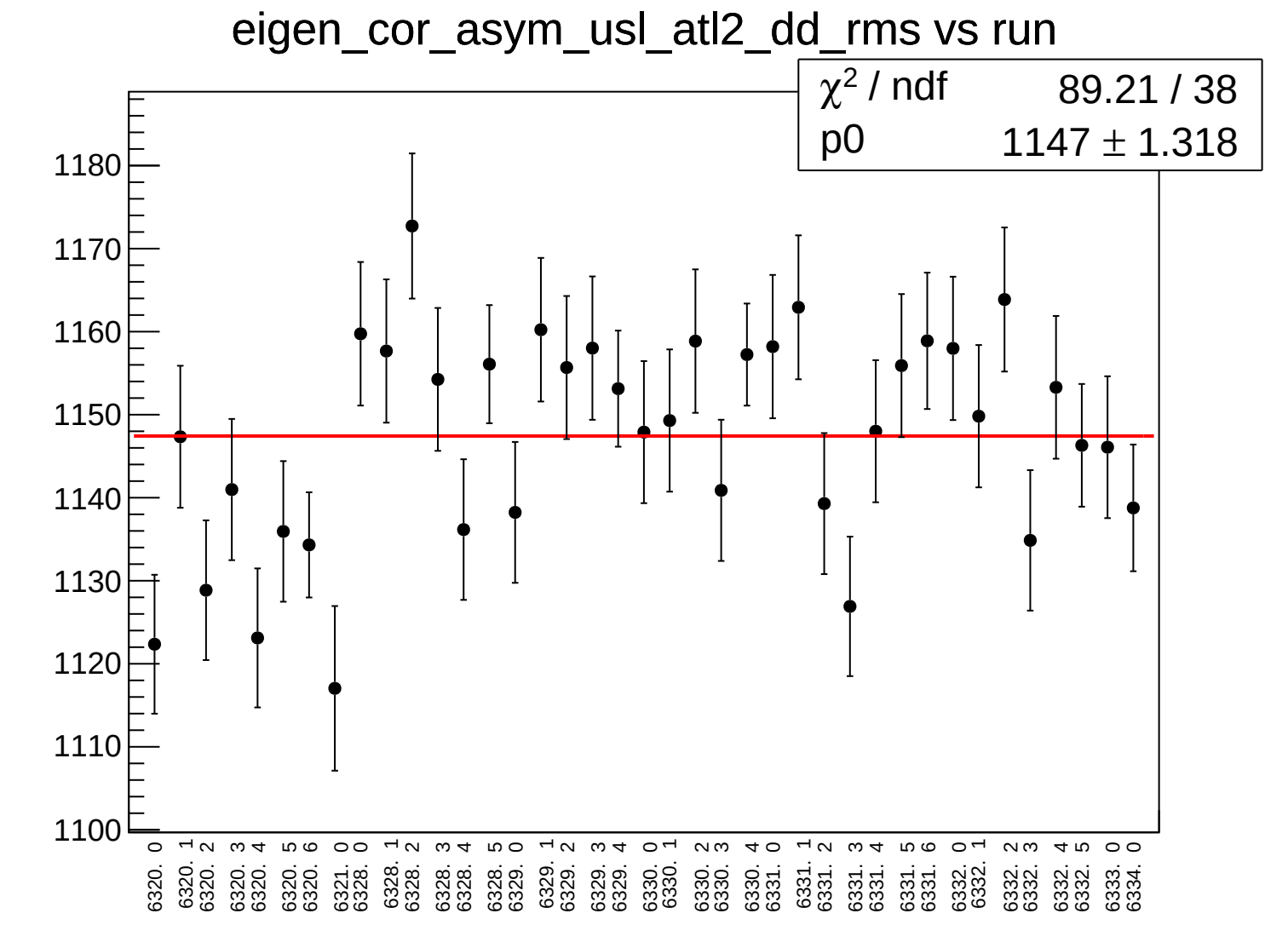

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −4924 ± 6982
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

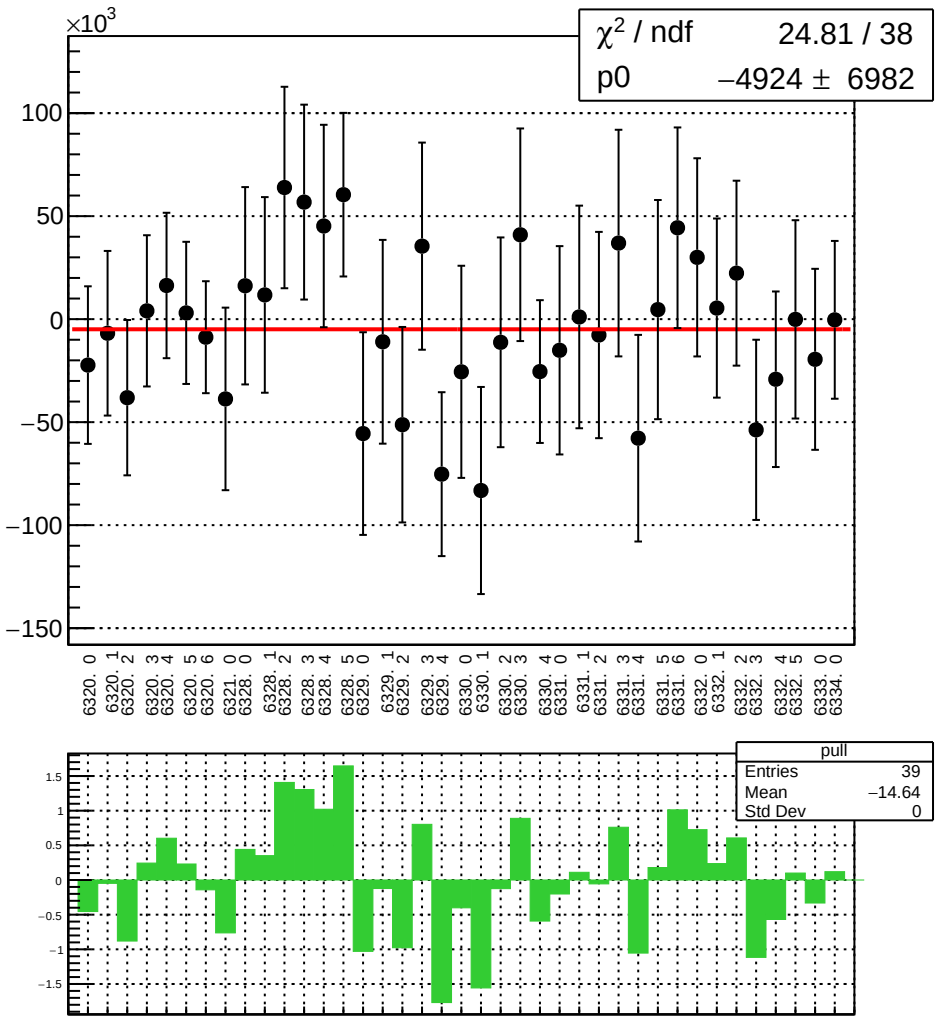

pull1D
Entries 39
Mean 0.01557
Std Dev 0.7974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

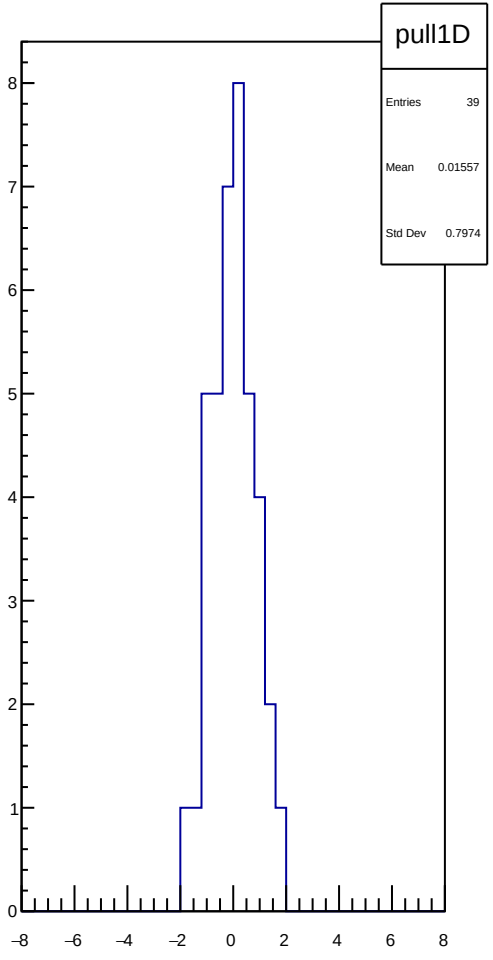

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.384e+04 / 38
p0 4259 ± 4.937
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

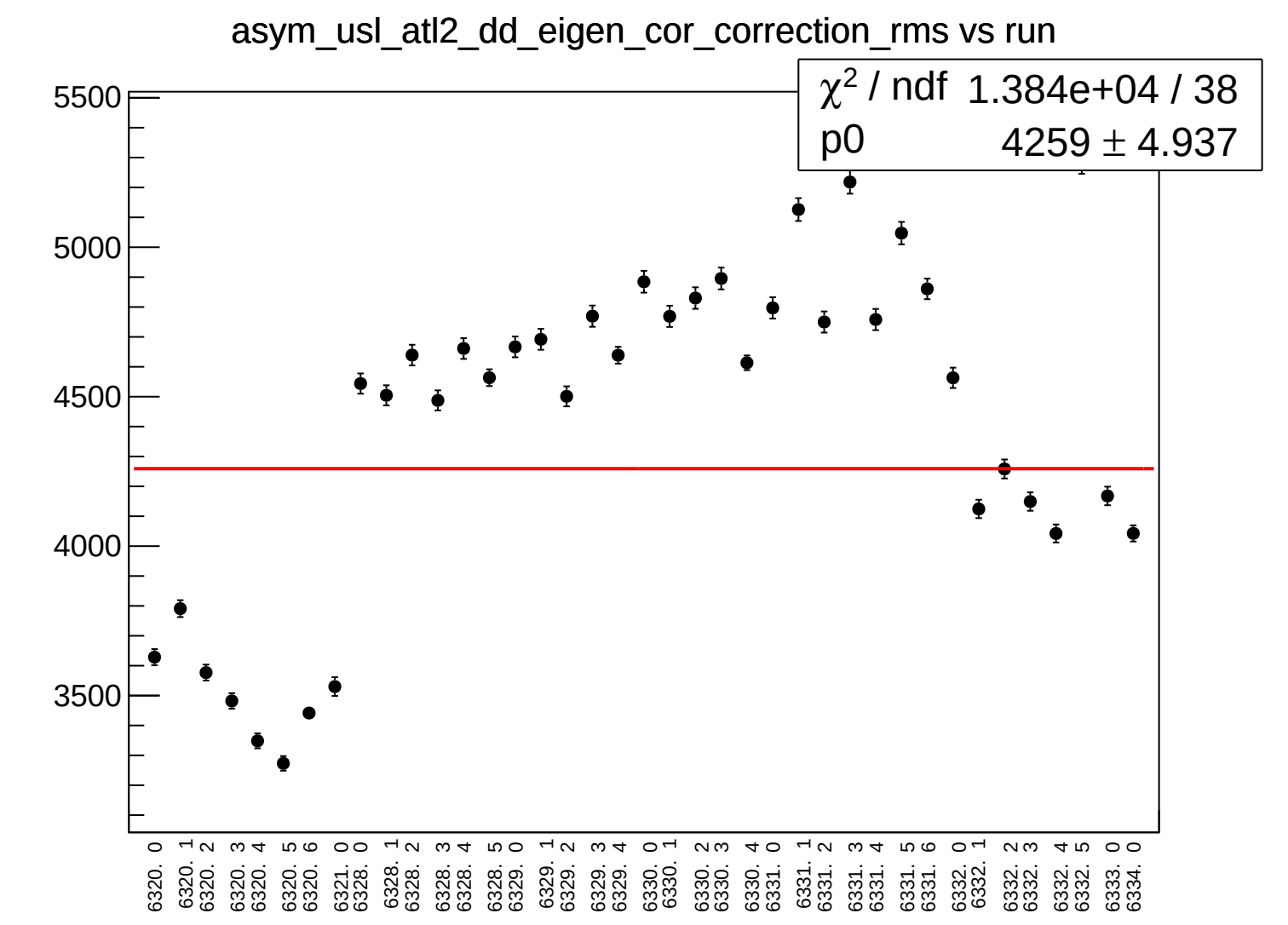

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 54.45 / 38
p0 1086 ± 1864
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −126.2
Std Dev 0
3
2
1
0
−1
−2

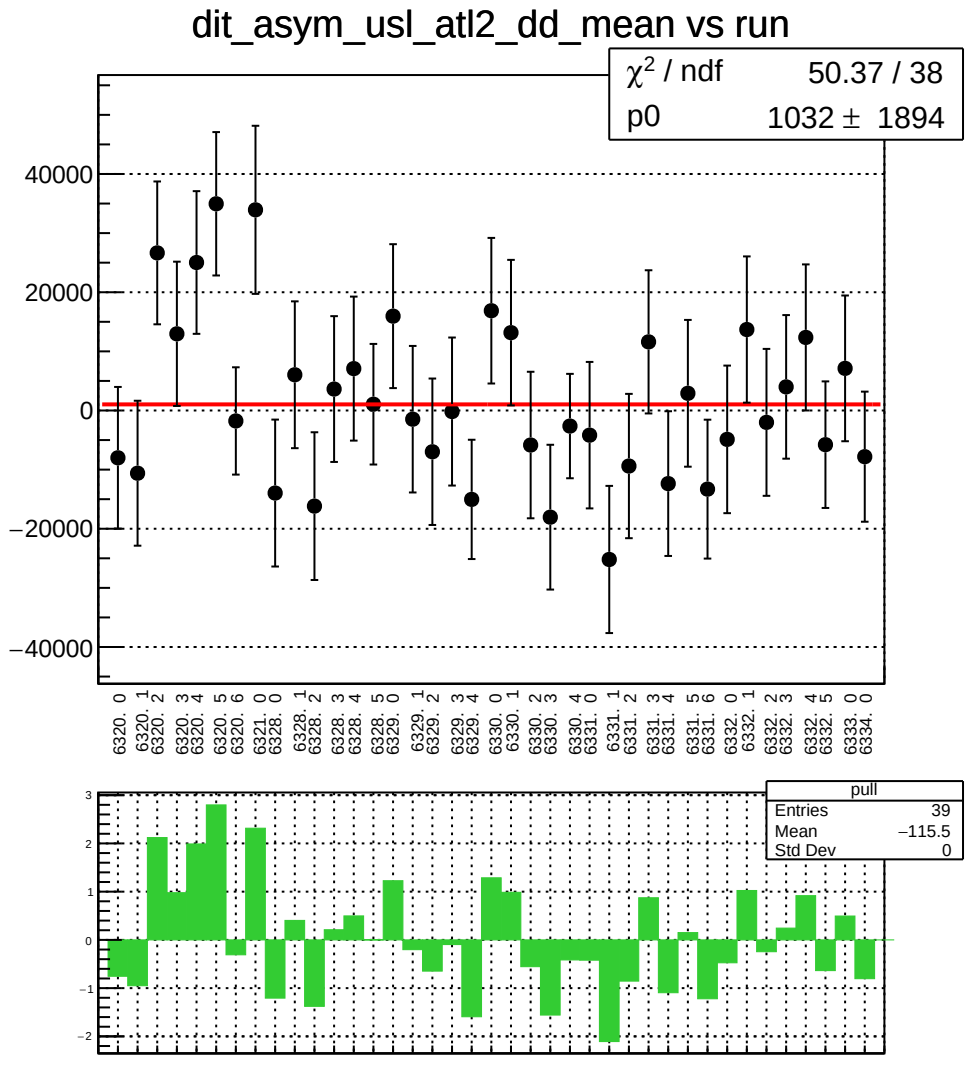

pull1D
Entries 39
Mean 0.02616
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

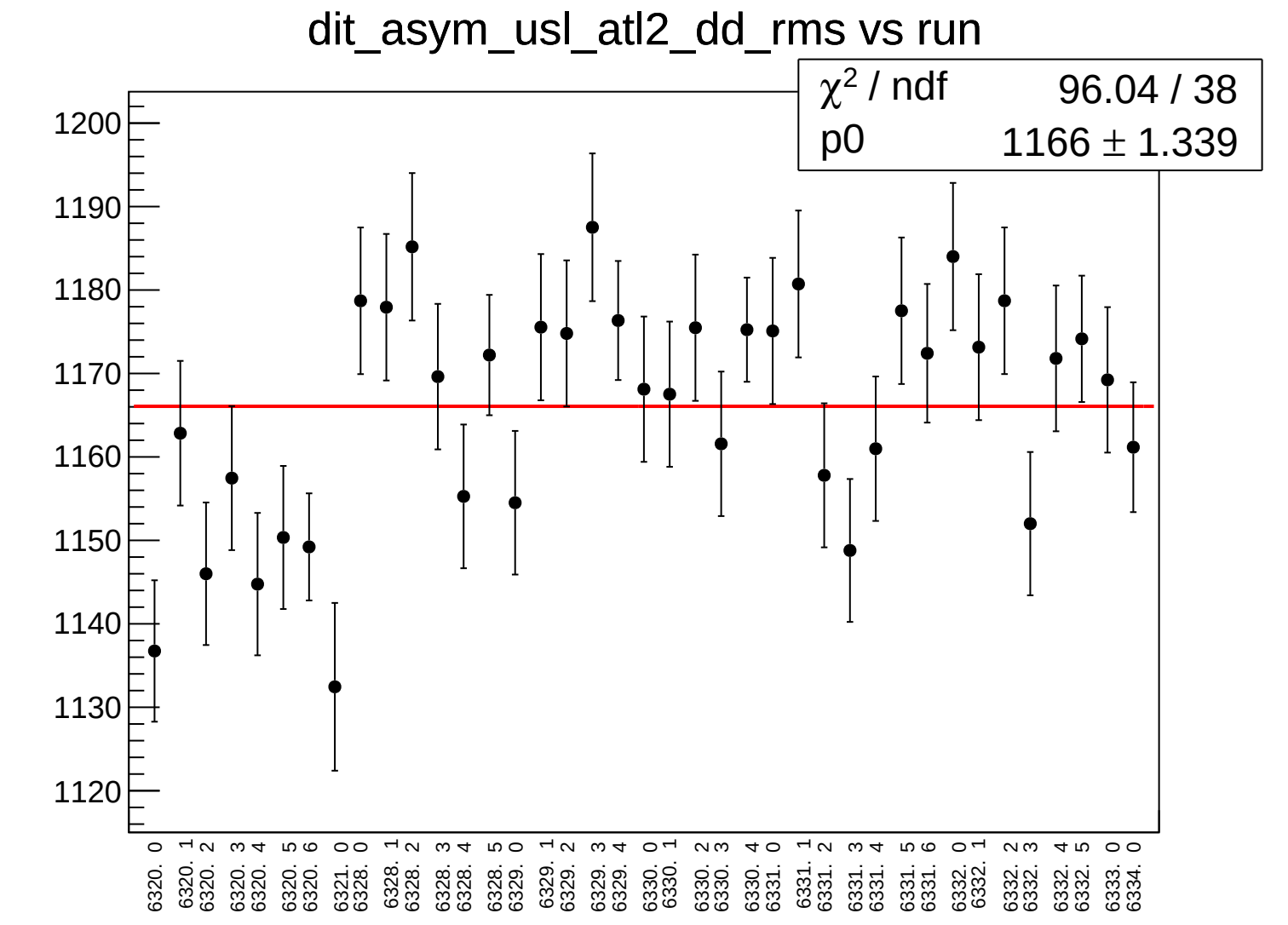

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 89.21 / 38
p0 1147 ± 1.318
1180
1170
1160
1150
1140
1130
1120
1110
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

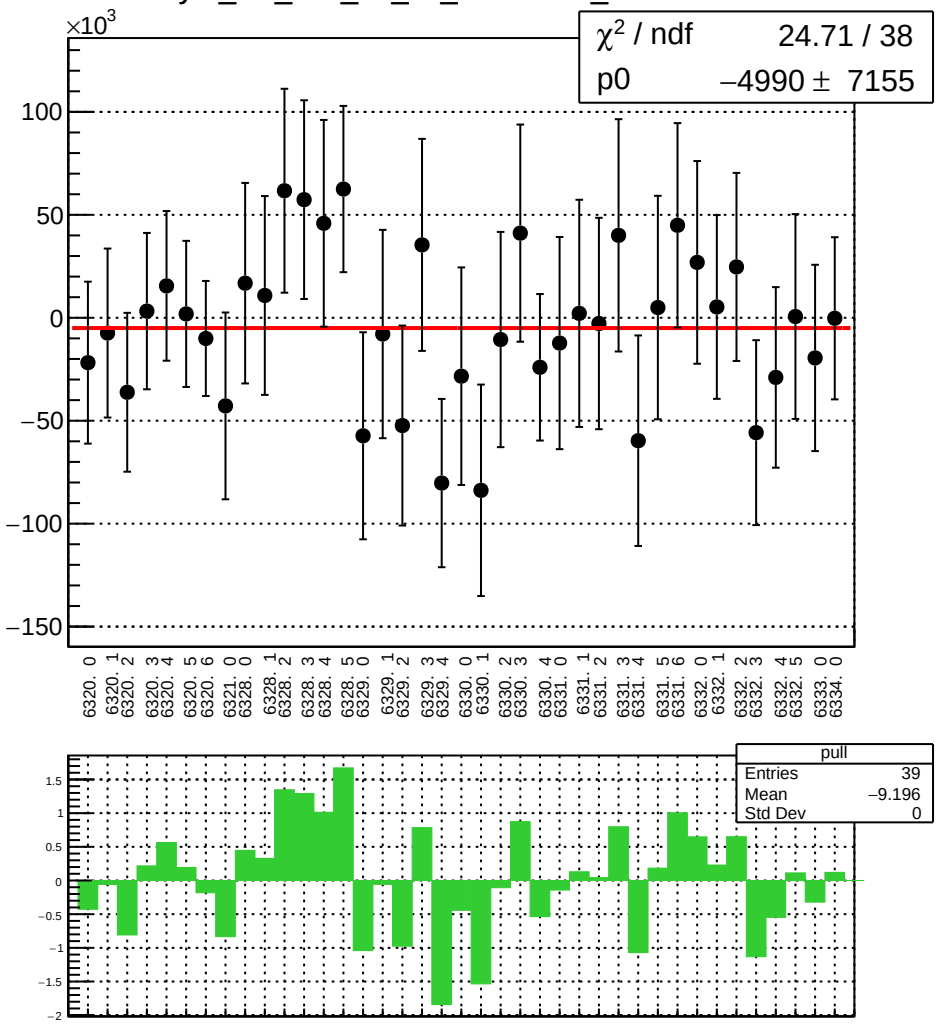

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.81 / 38
p0 −4924 ± 6982
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

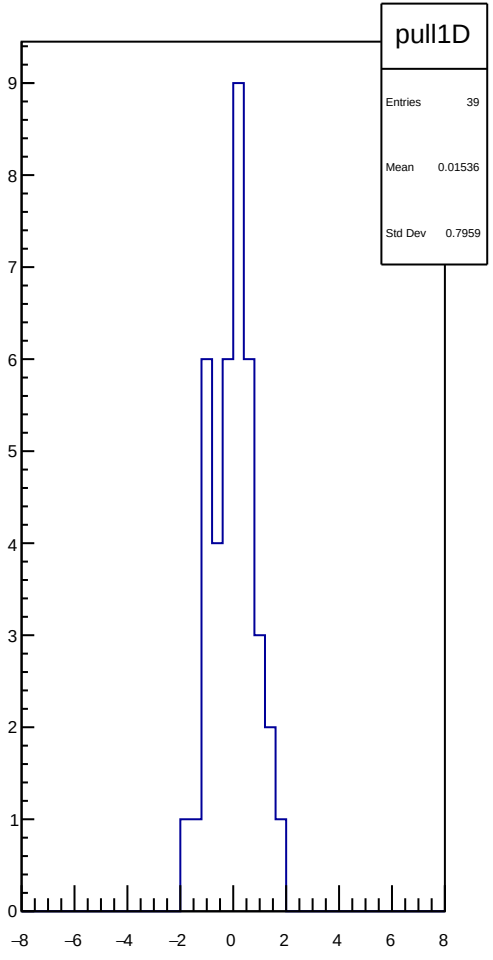

pull1D
Entries 39
Mean 0.01557
Std Dev 0.7974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

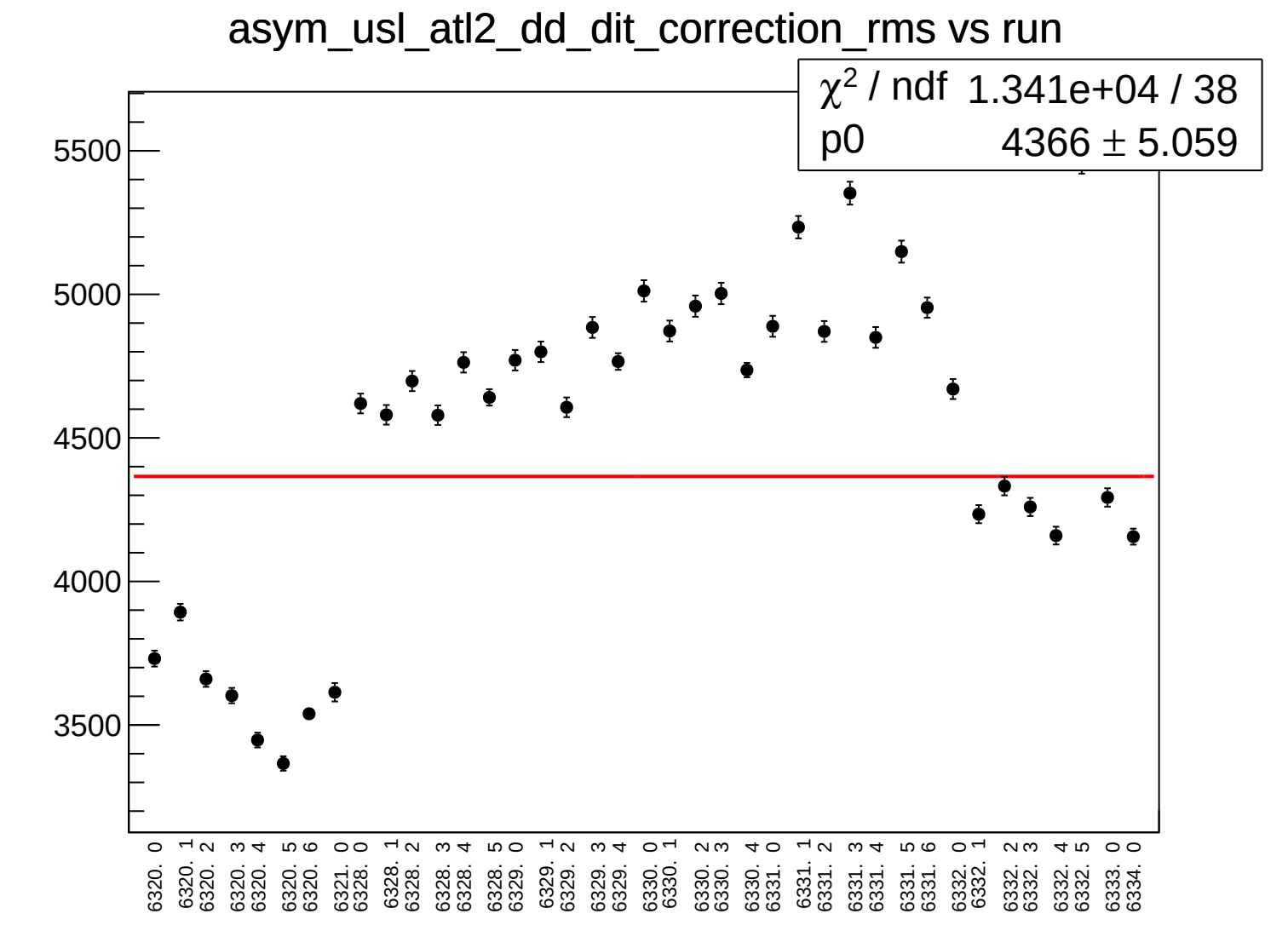

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.384e+04 / 38
p0 4259 ± 4.937
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

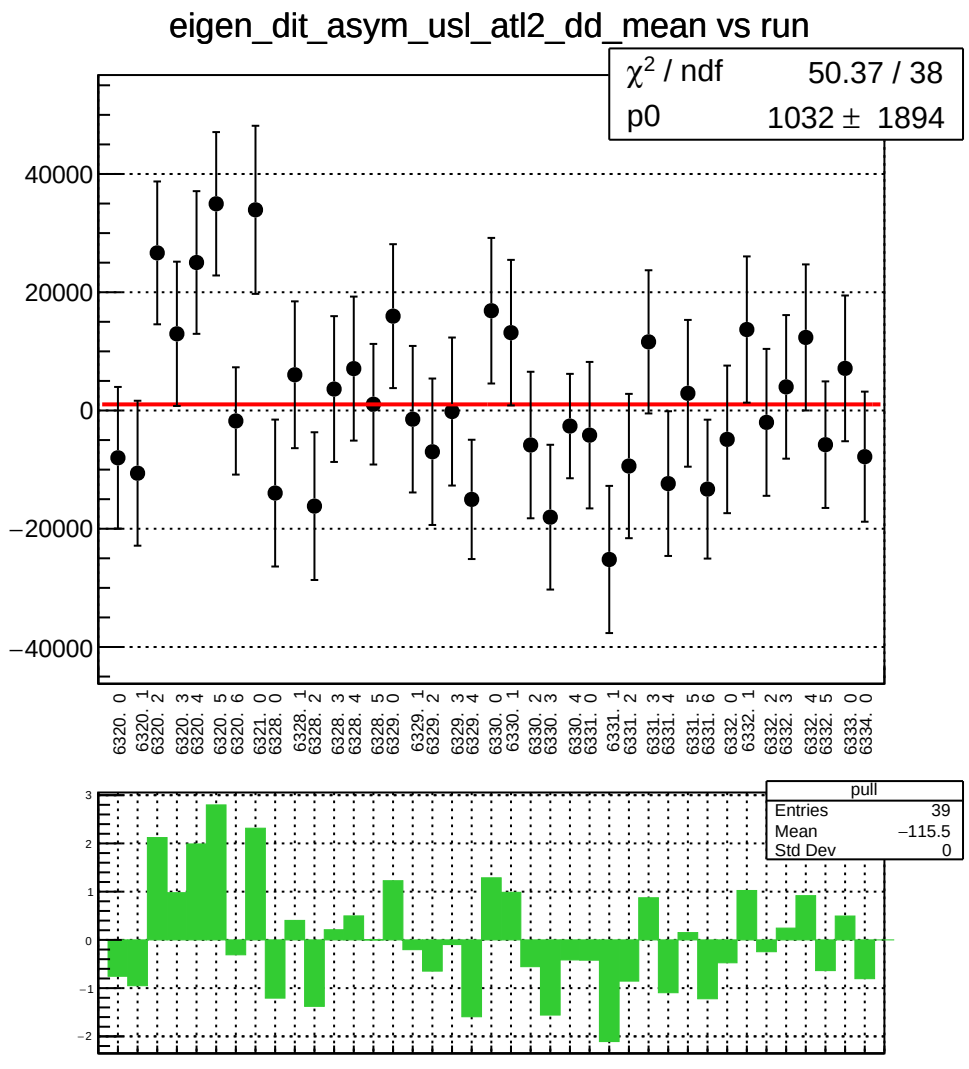

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 50.37 / 38
p0 1032 ± 1894
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −115.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02562
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

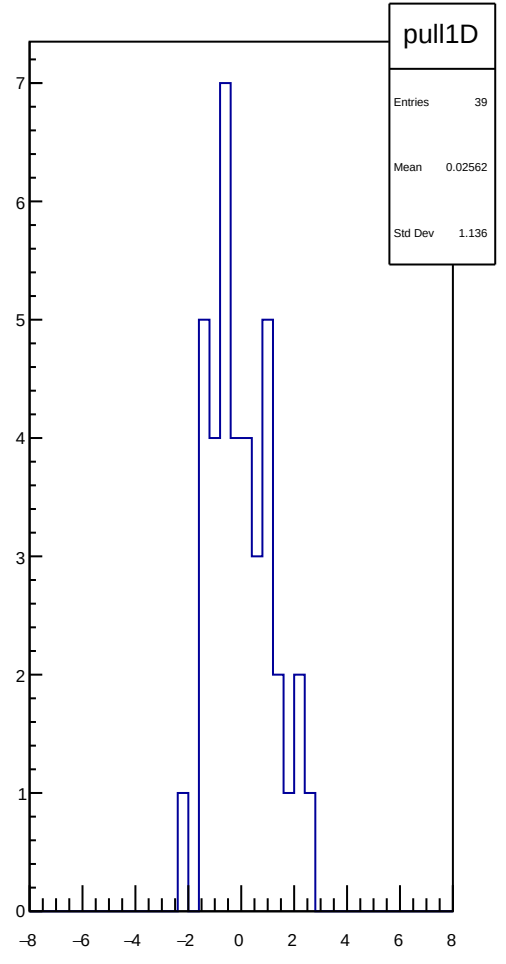

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 96.04 / 38
p0 1166 ± 1.339
1200
1190
1180
1170
1160
1150
1140
1130
1120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

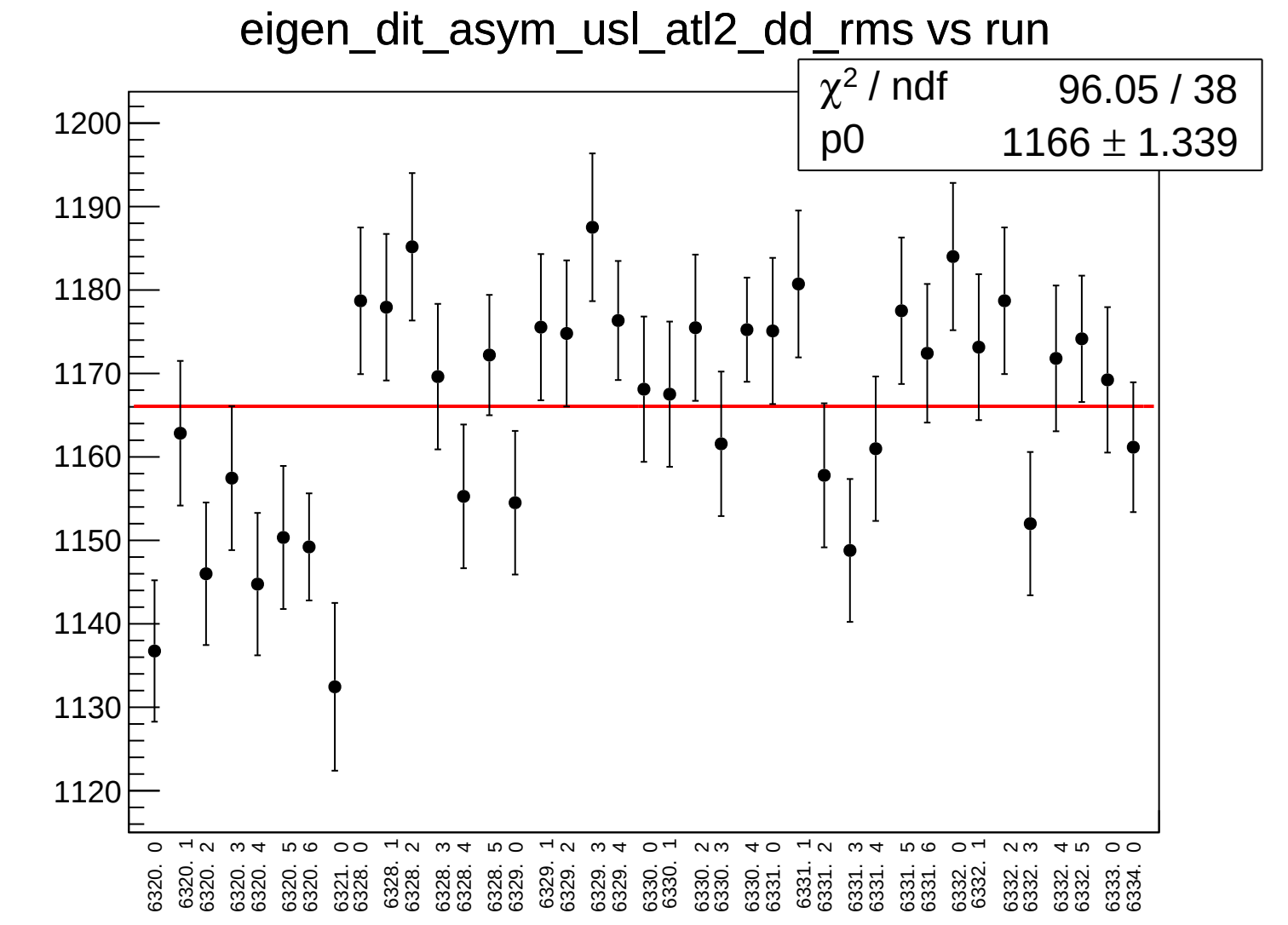

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 24.71 / 38
p0 −4990 ± 7155
×10³
pull
Entries 39
Mean −9.196
Std Dev 0

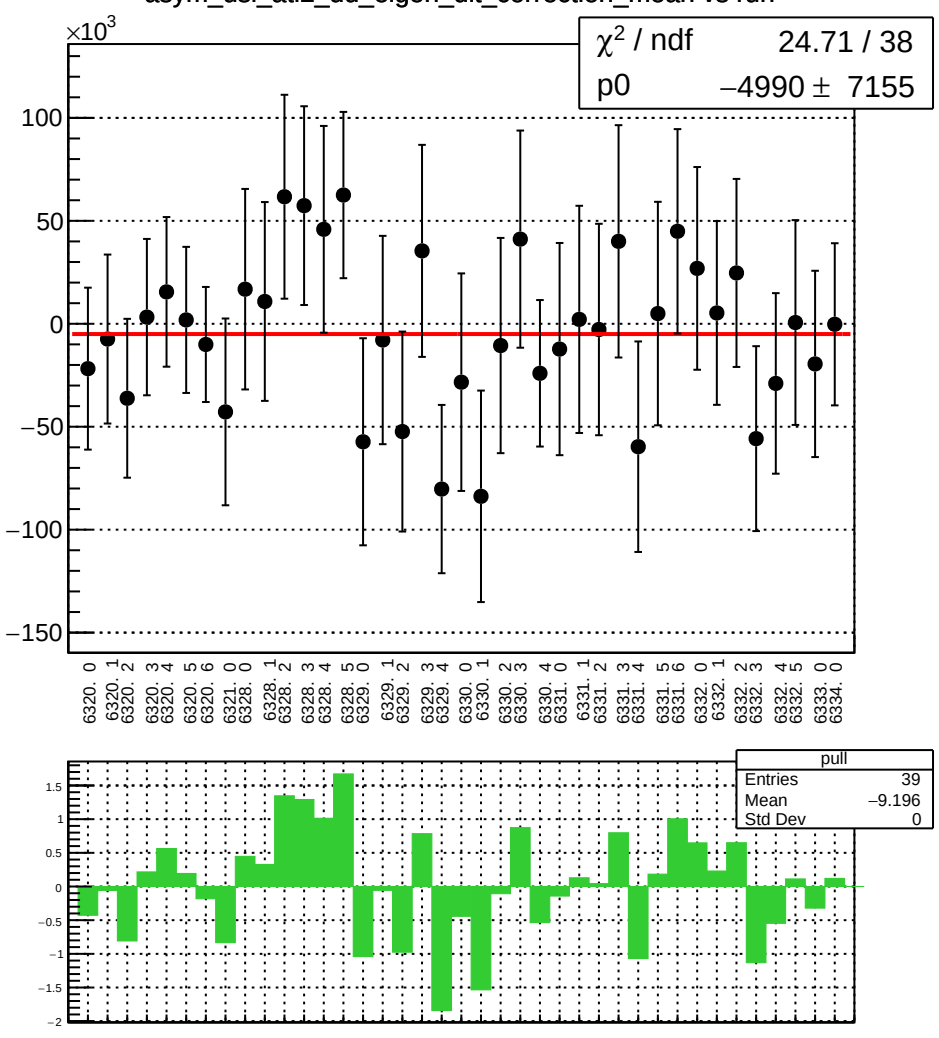

pull1D
Entries 39
Mean 0.01536
Std Dev 0.7959

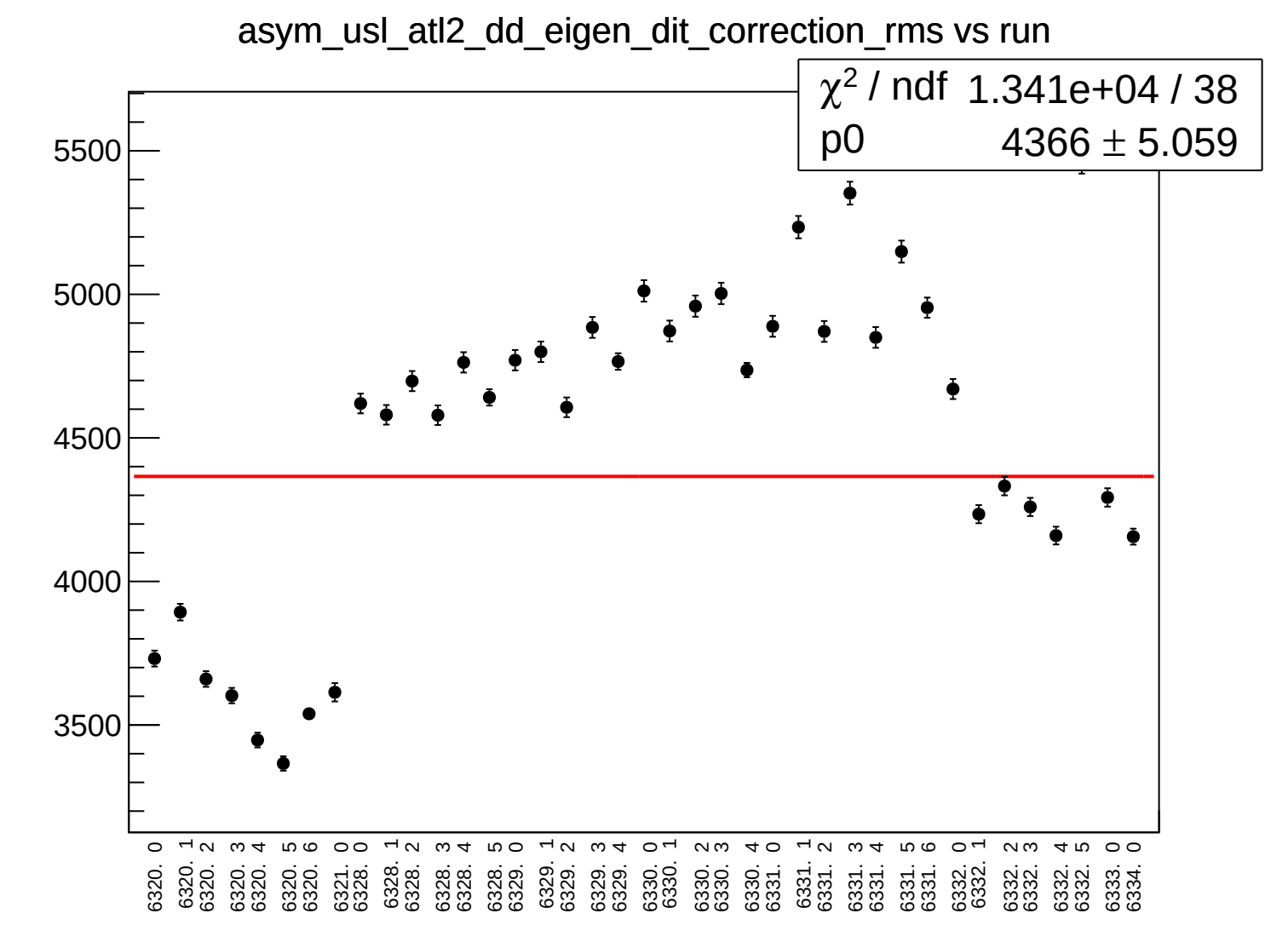

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 38
p0 4366 ± 5.059
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

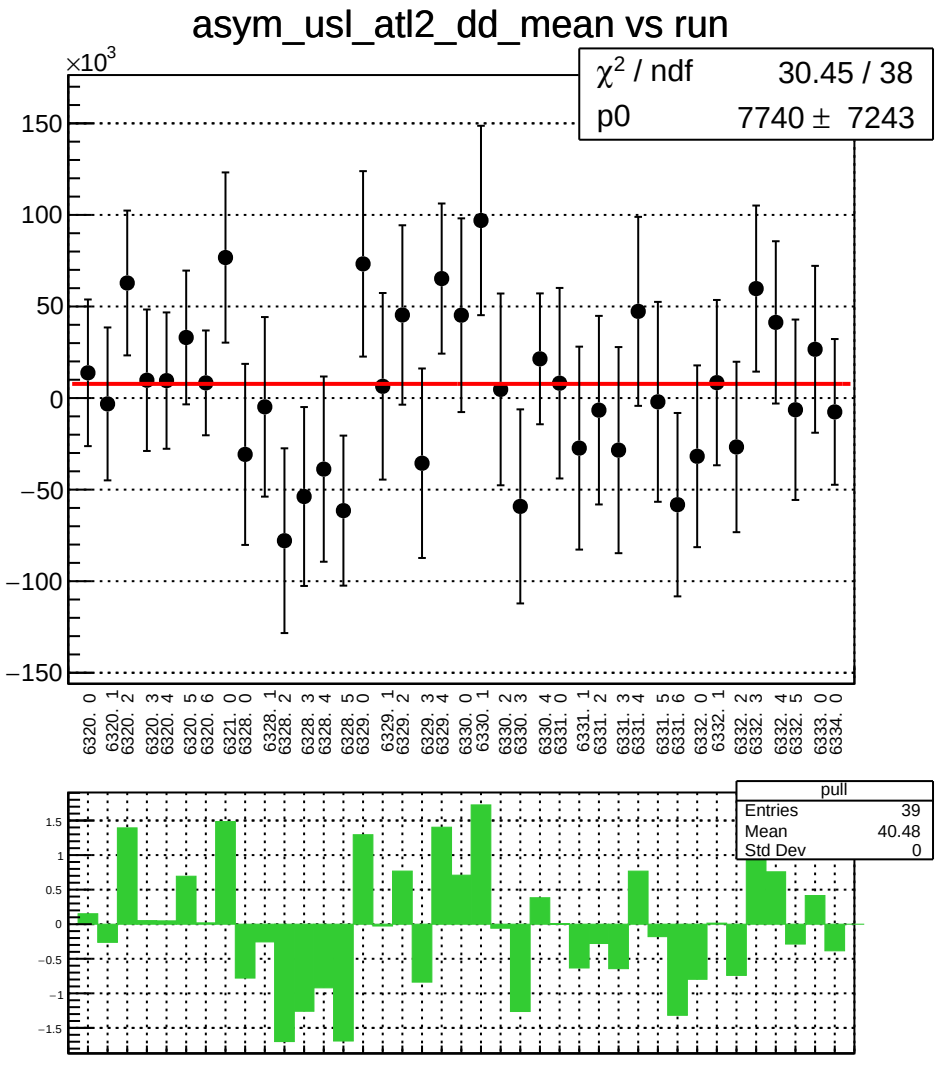

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 50.37 / 38
p0 1032 ± 1894
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −115.5
Std Dev 0
3
2
1
0
−1
−2

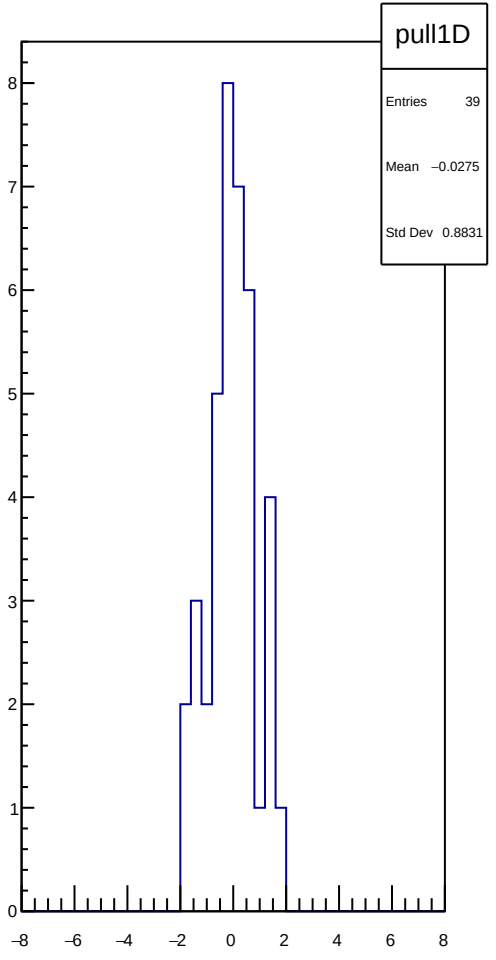

pull1D
Entries 39
Mean 0.02562
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

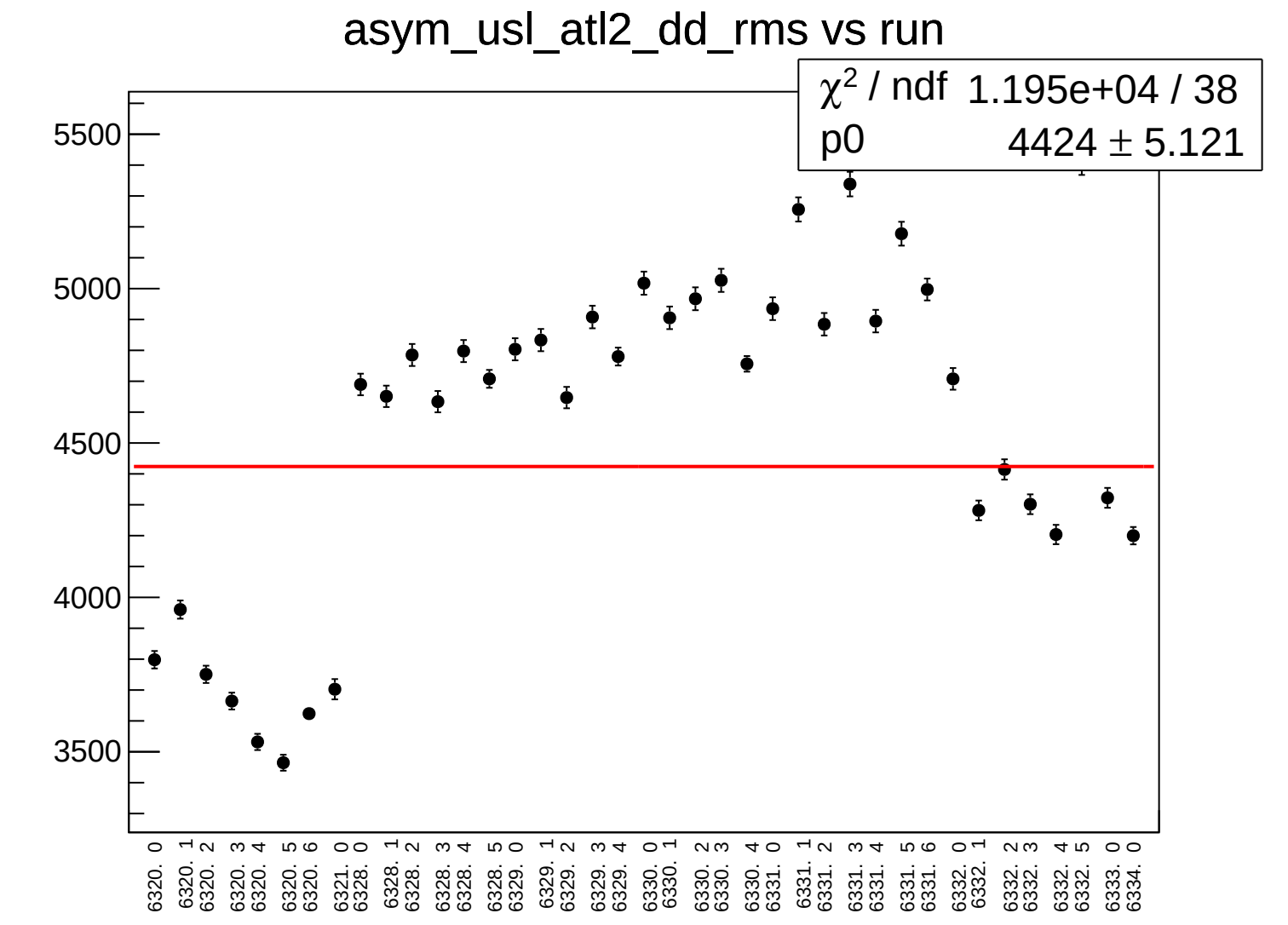

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 96.05 / 38
p0 1166 ± 1.339
1200
1190
1180
1170
1160
1150
1140
1130
1120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

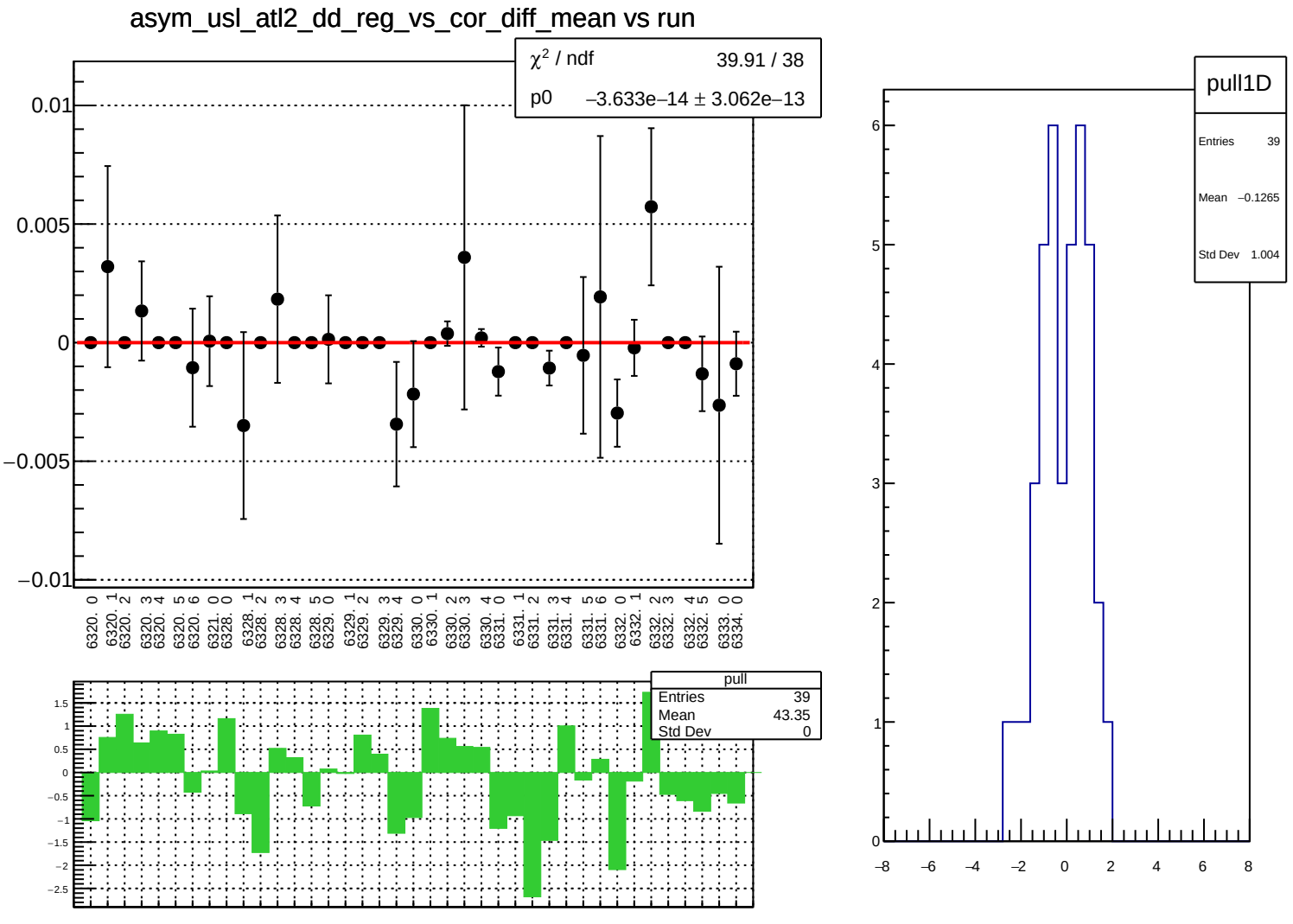

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.71 / 38
p0 −4990 ± 7155
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.196
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01536
Std Dev 0.7959
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

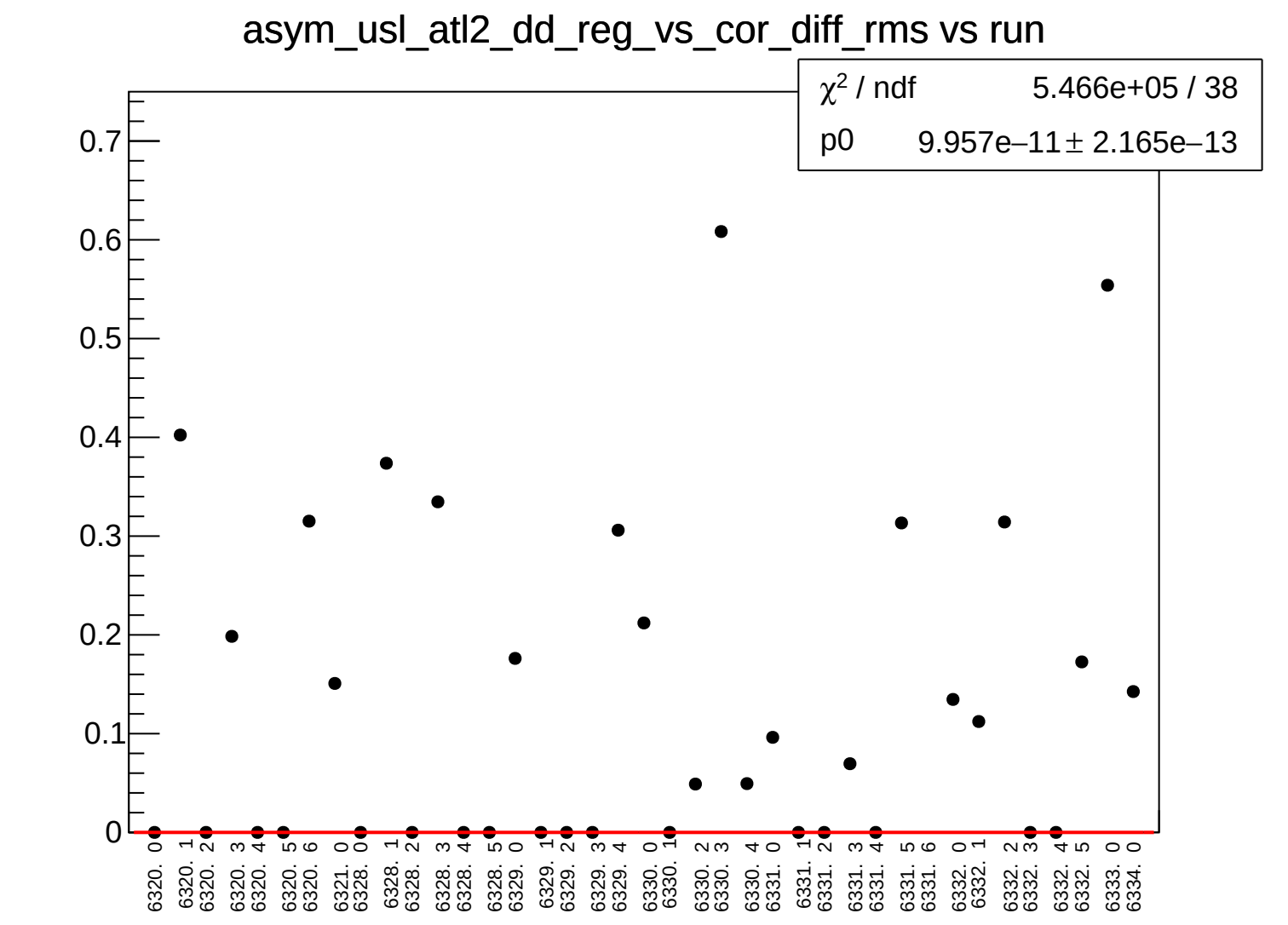

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 38
p0 4366 ± 5.059
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

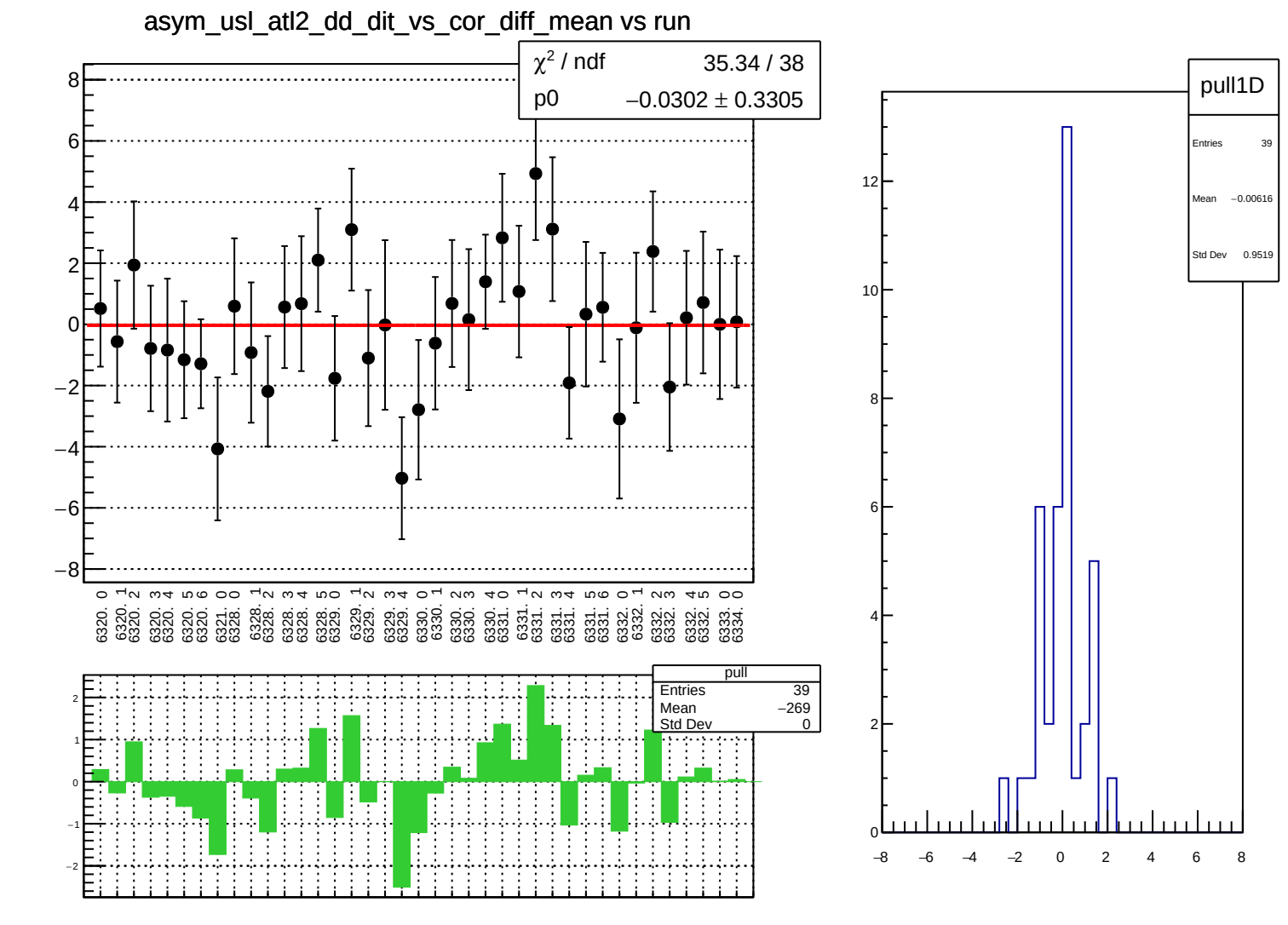

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 30.45 / 38
p0 7740 ± 7243
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

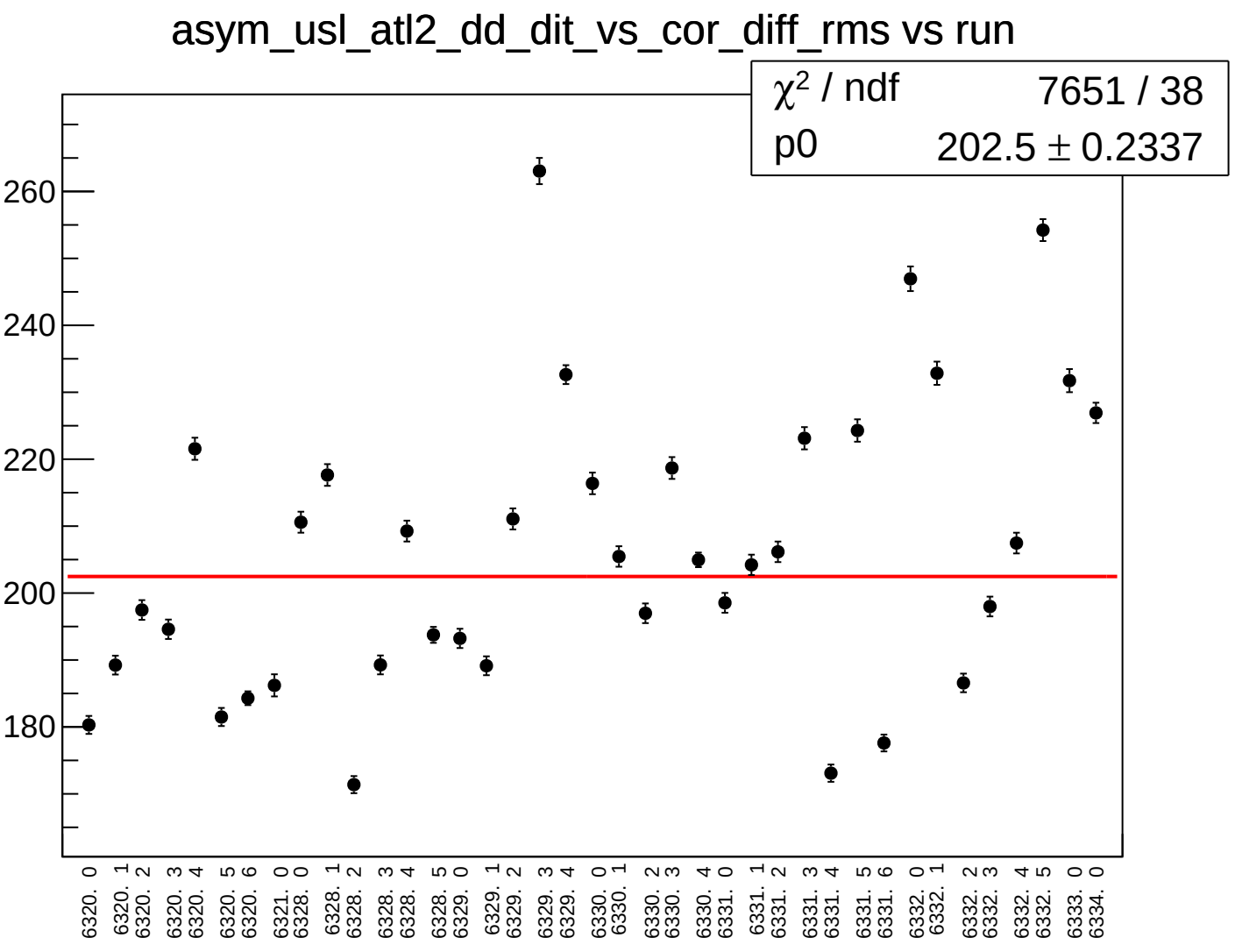

pull1D
Entries 39
Mean −0.0275
Std Dev 0.8831
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

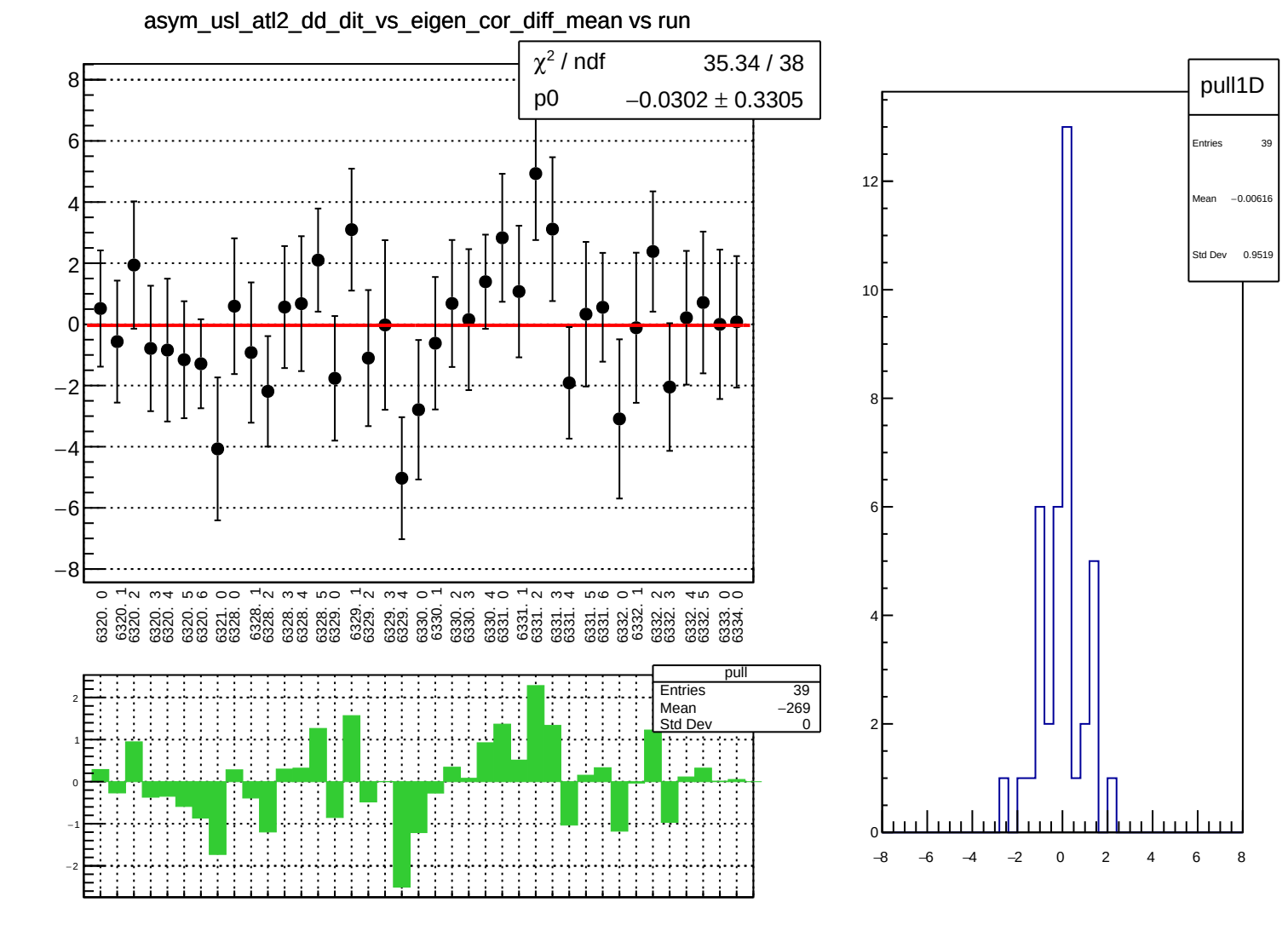

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.195e+04 / 38
p0 4424 ± 5.121
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

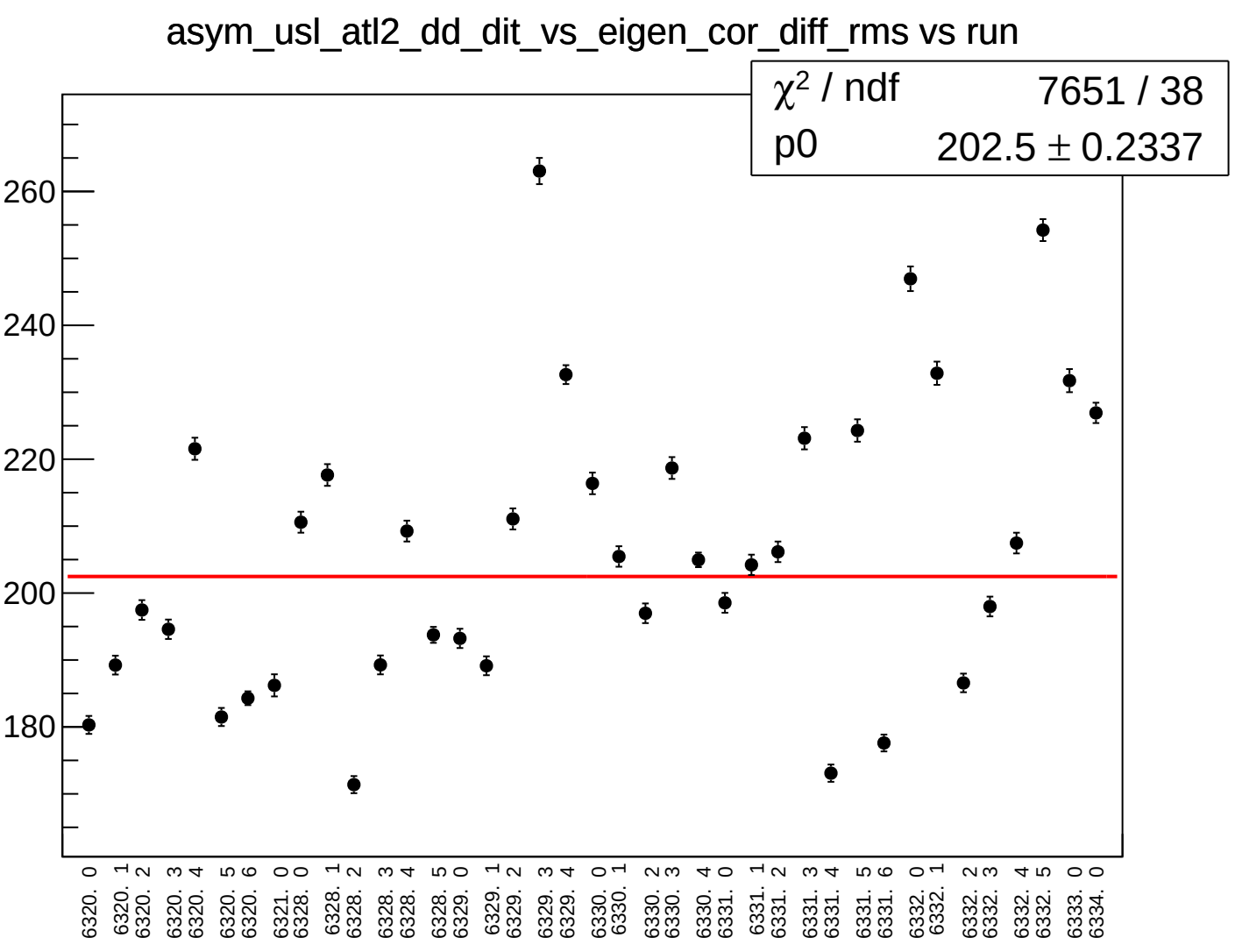

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.91 / 38
p0 −3.633e−14 ± 3.062e−13
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 43.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.1265
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

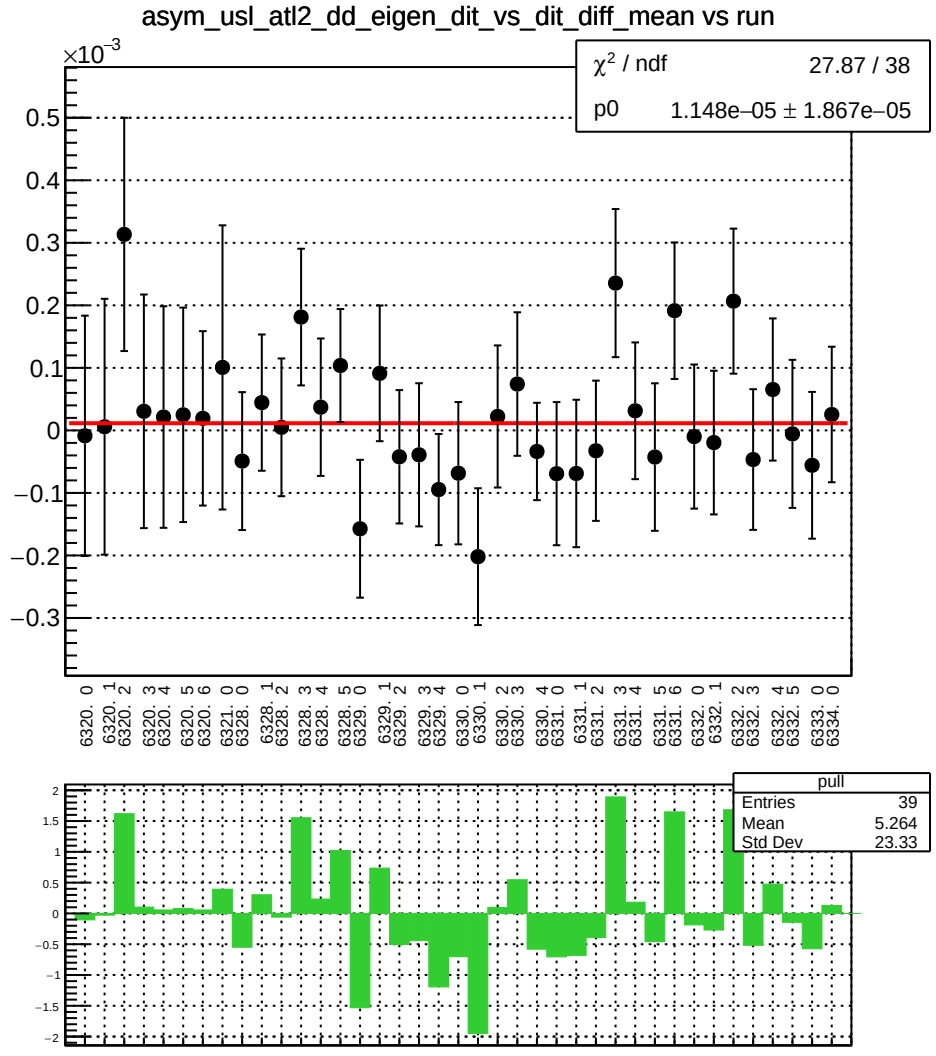

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.466e+05 / 38
p0 9.957e−11 ± 2.165e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

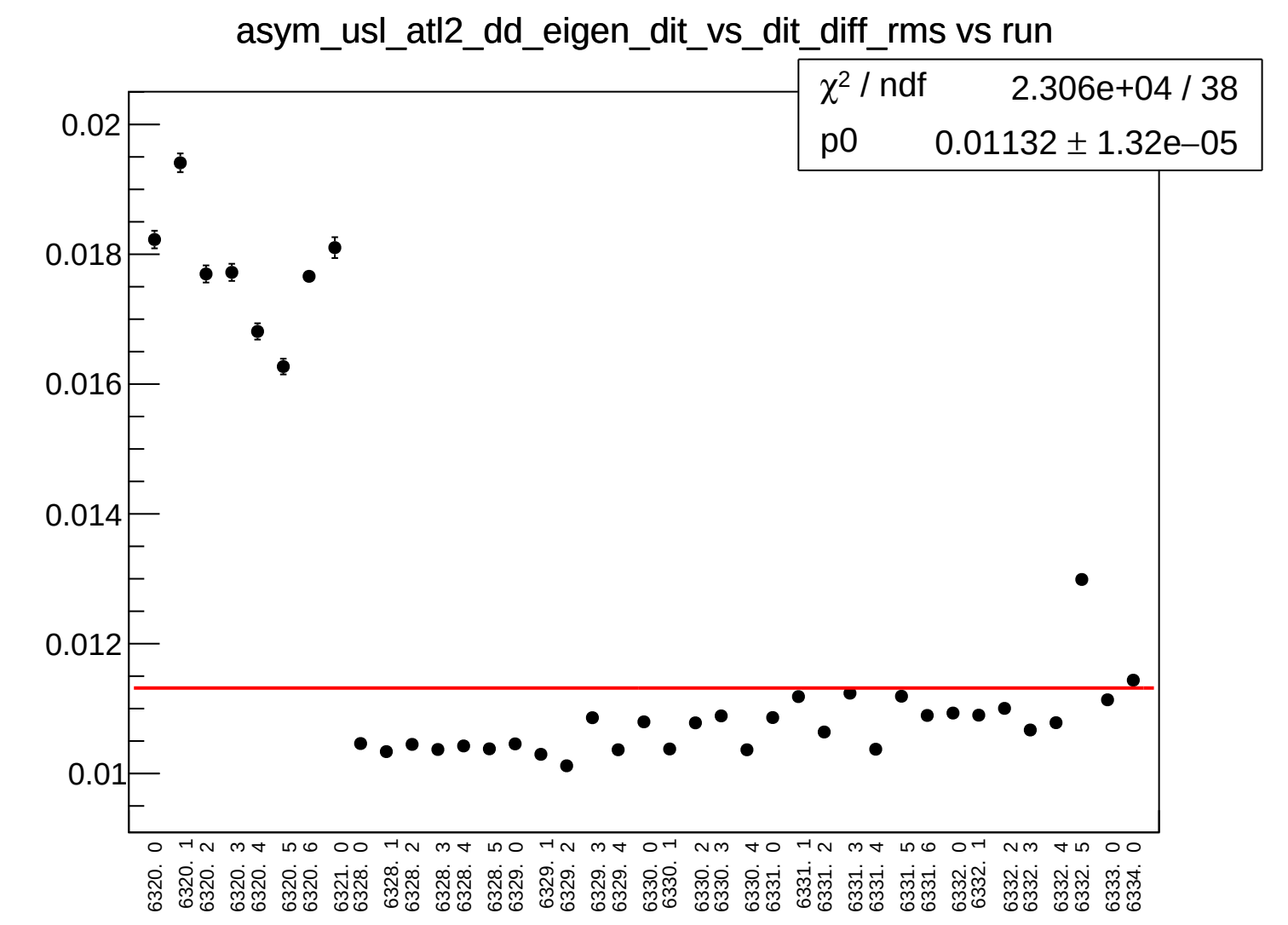

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.34 / 38
p0 −0.0302 ± 0.3305
pull
Entries 39
Mean −269
Std Dev 0
pull1D
Entries 39
Mean −0.00616
Std Dev 0.9519

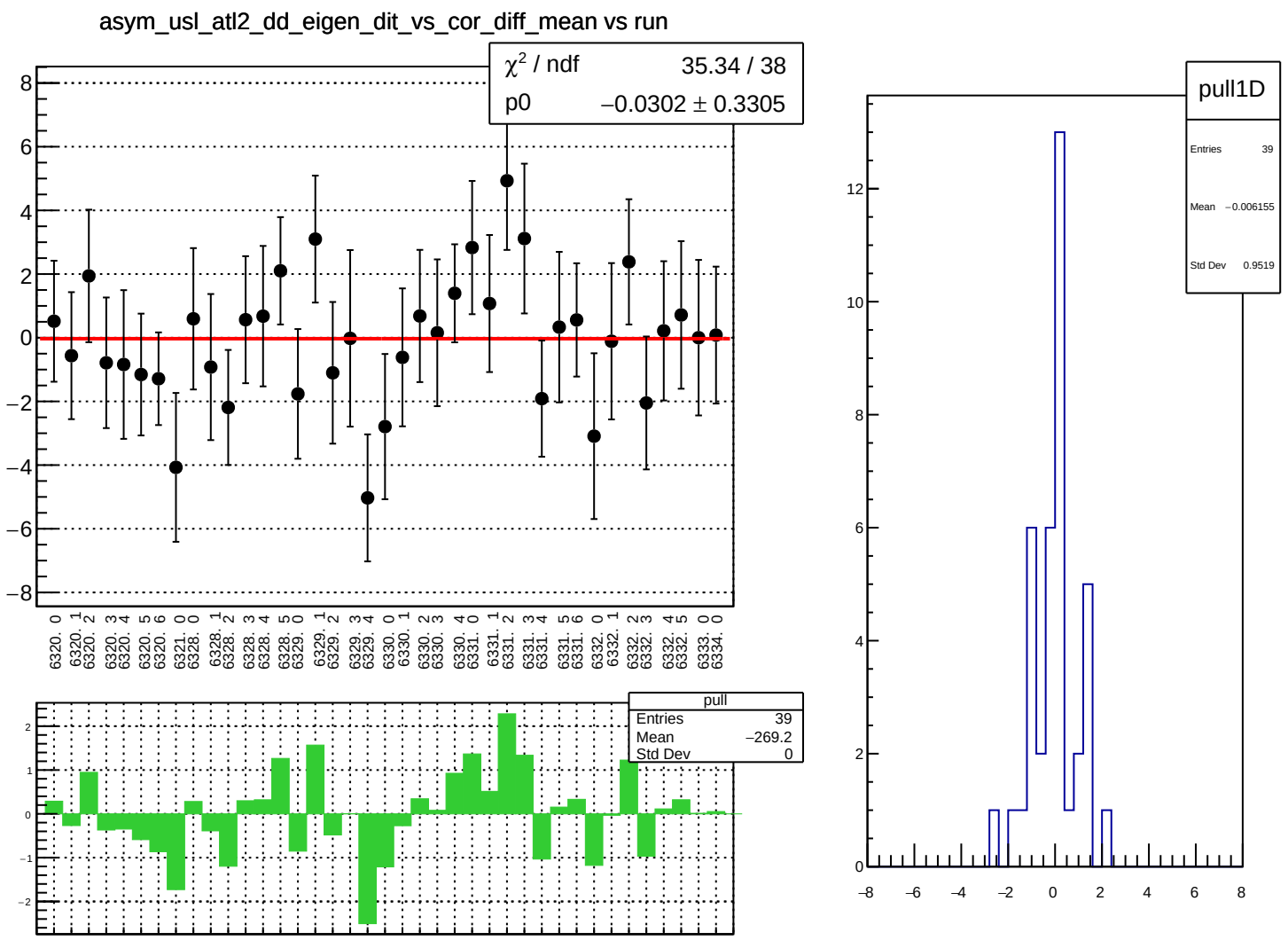

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7651 / 38
p0 202.5 ± 0.2337
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

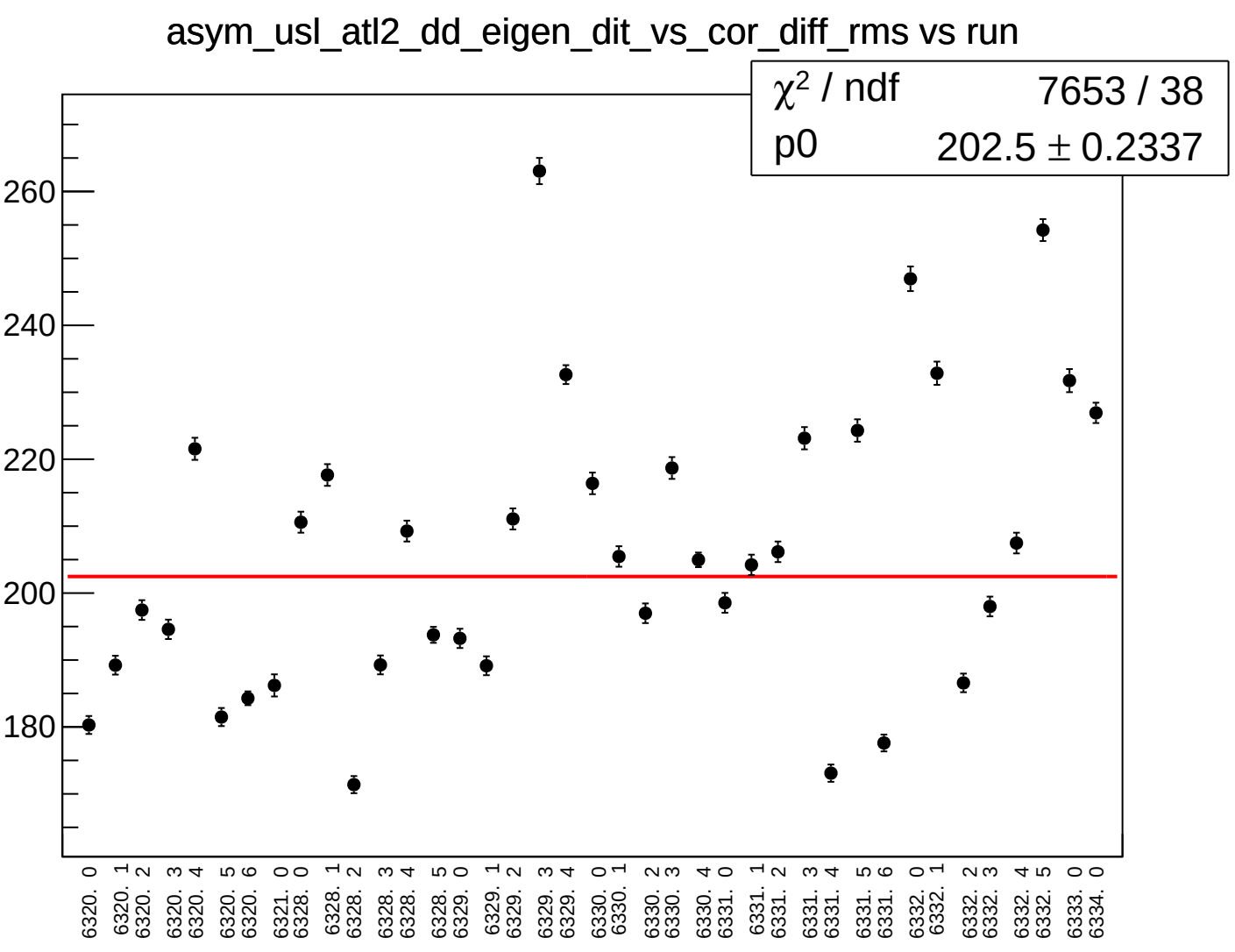

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.34 / 38
p0 −0.0302 ± 0.3305
pull
Entries 39
Mean −269
Std Dev 0
pull1D
Entries 39
Mean −0.00616
Std Dev 0.9519

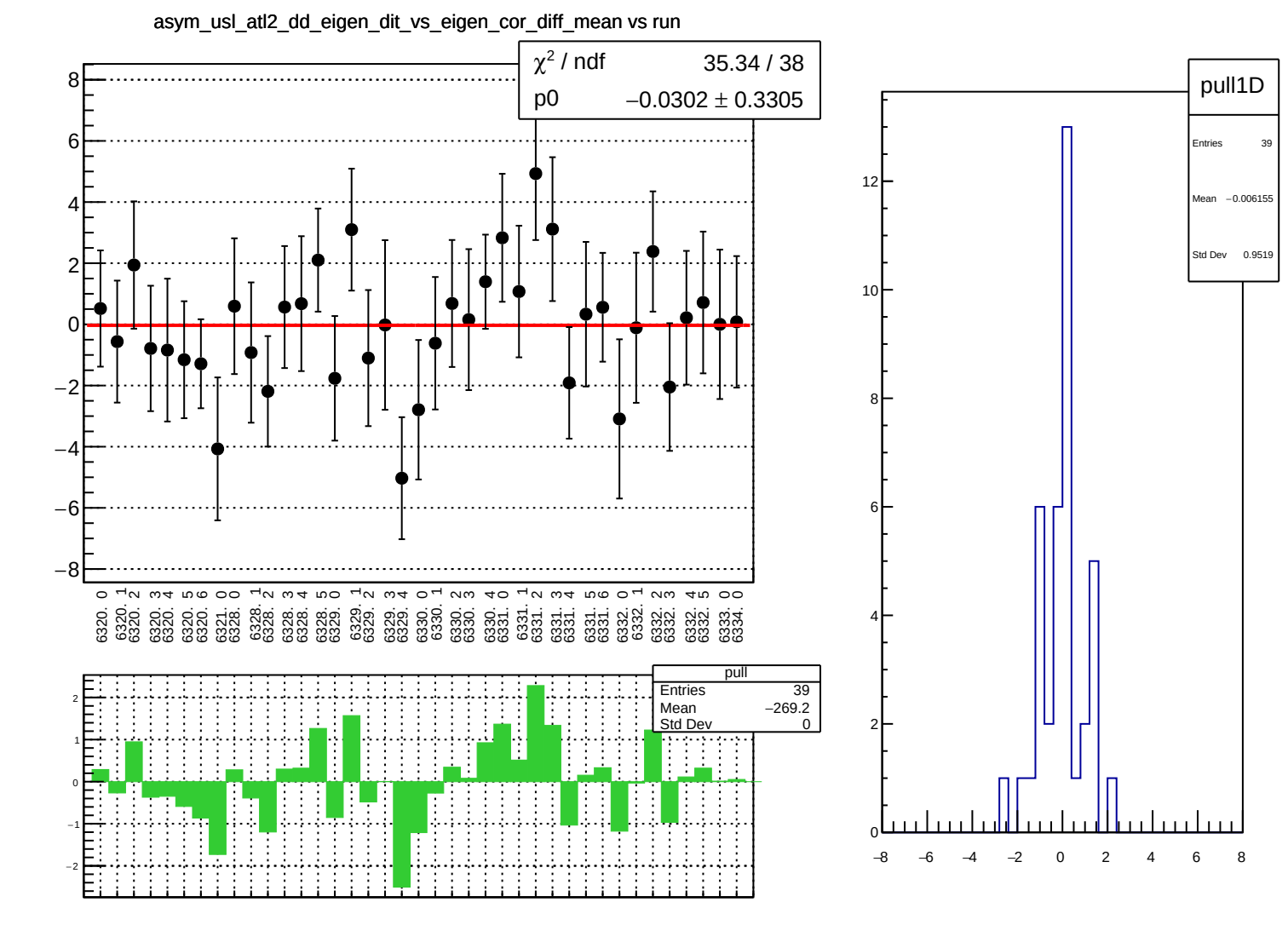

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7651 / 38
p0 202.5 ± 0.2337
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

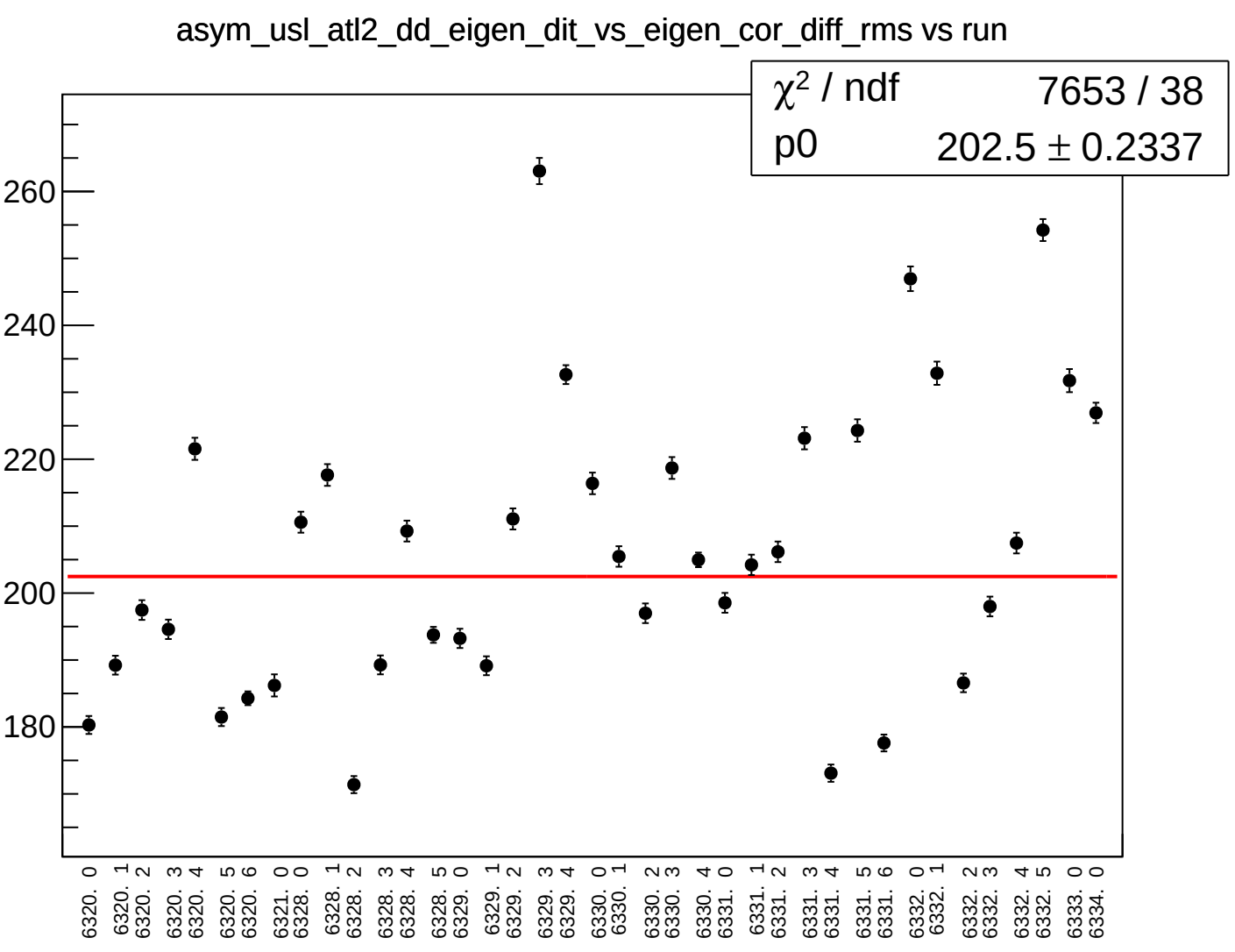

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.87 / 38
p0 1.148e−05 ± 1.867e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.264
Std Dev 23.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03151
Std Dev 0.8448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

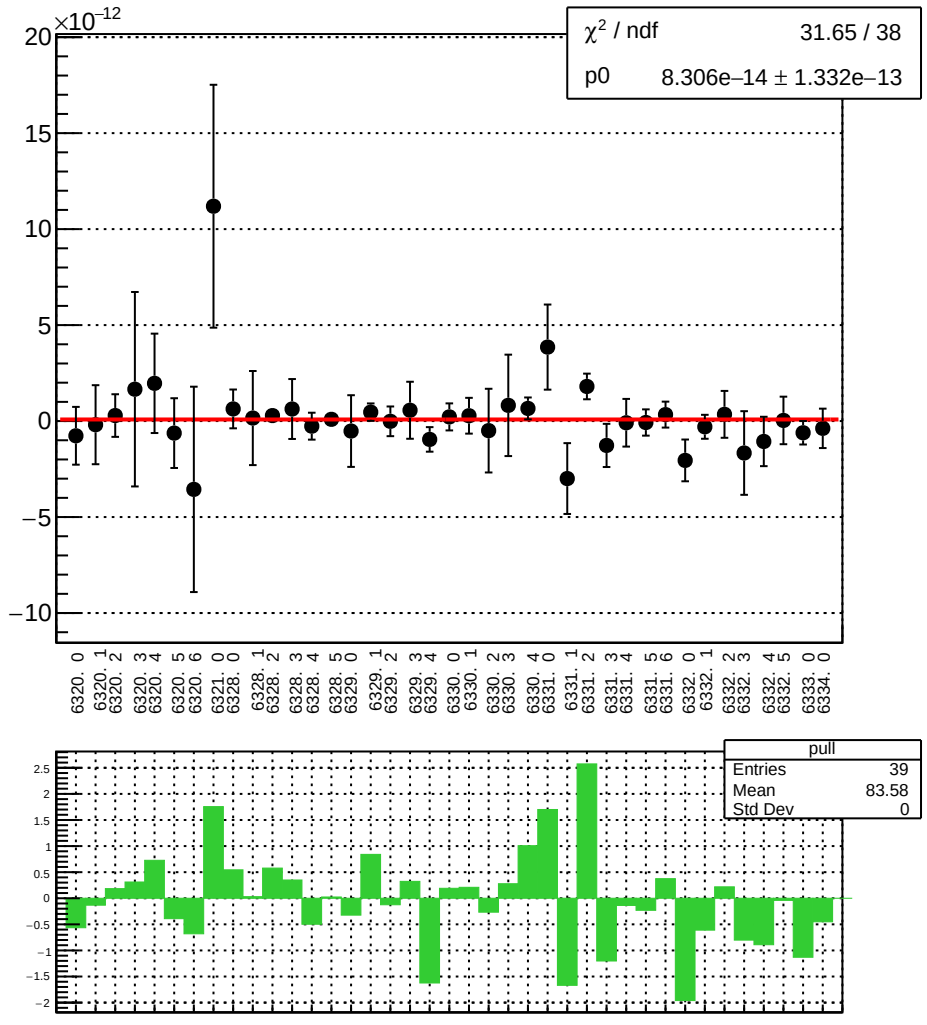

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.306e+04 / 38
p0 0.01132 ± 1.32e−05
0.02
0.018
0.016
0.014
0.012
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

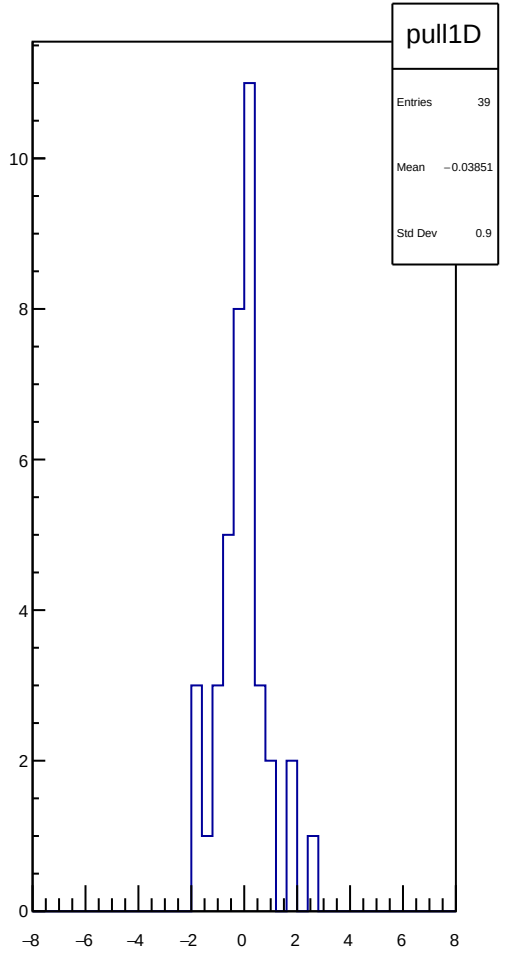

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.34 / 38
p0 −0.0302 ± 0.3305
pull
Entries 39
Mean −269.2
Std Dev 0
pull1D
Entries 39
Mean −0.006155
Std Dev 0.9519

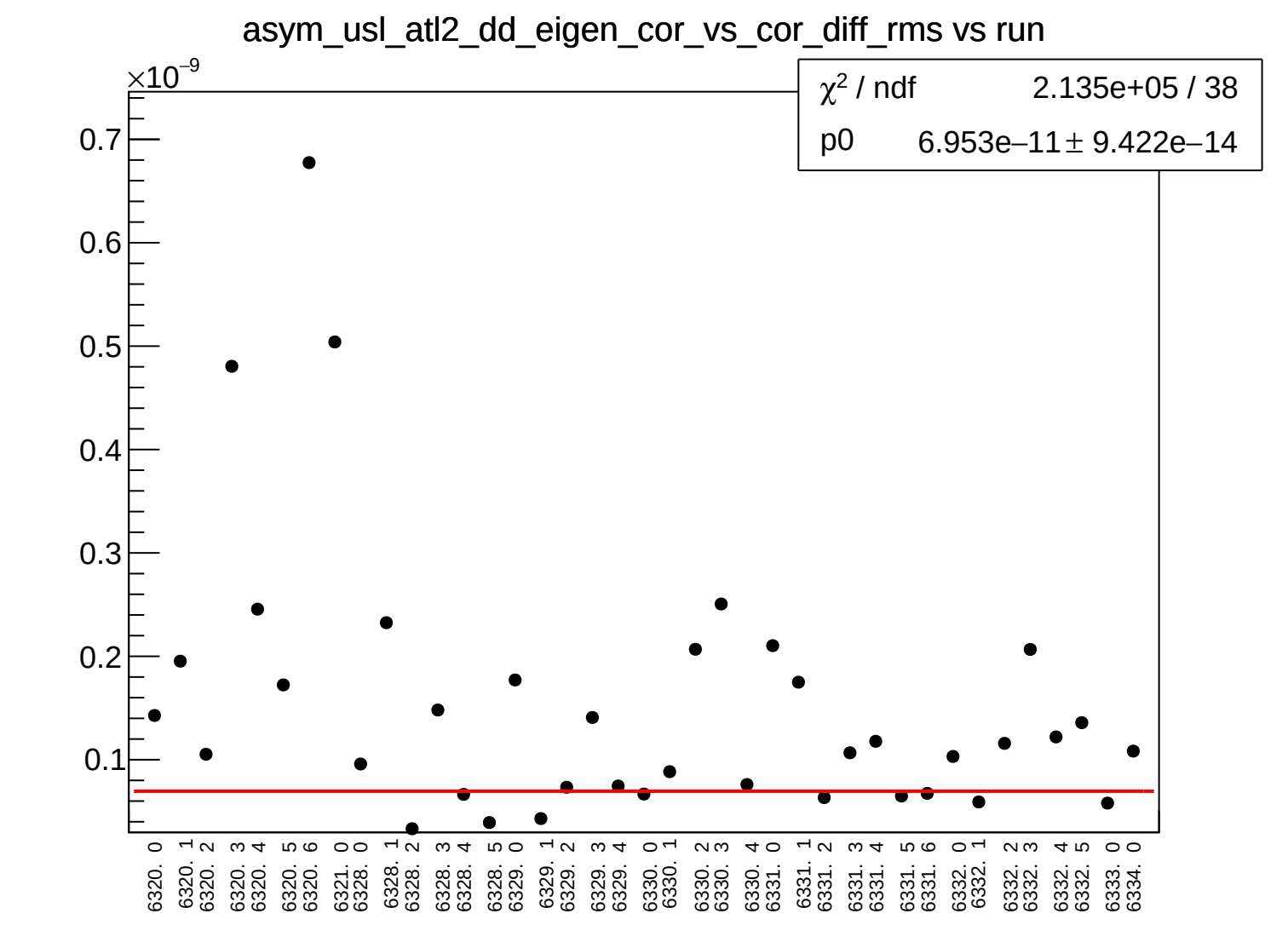

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7653 / 38
p0 202.5 ± 0.2337
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

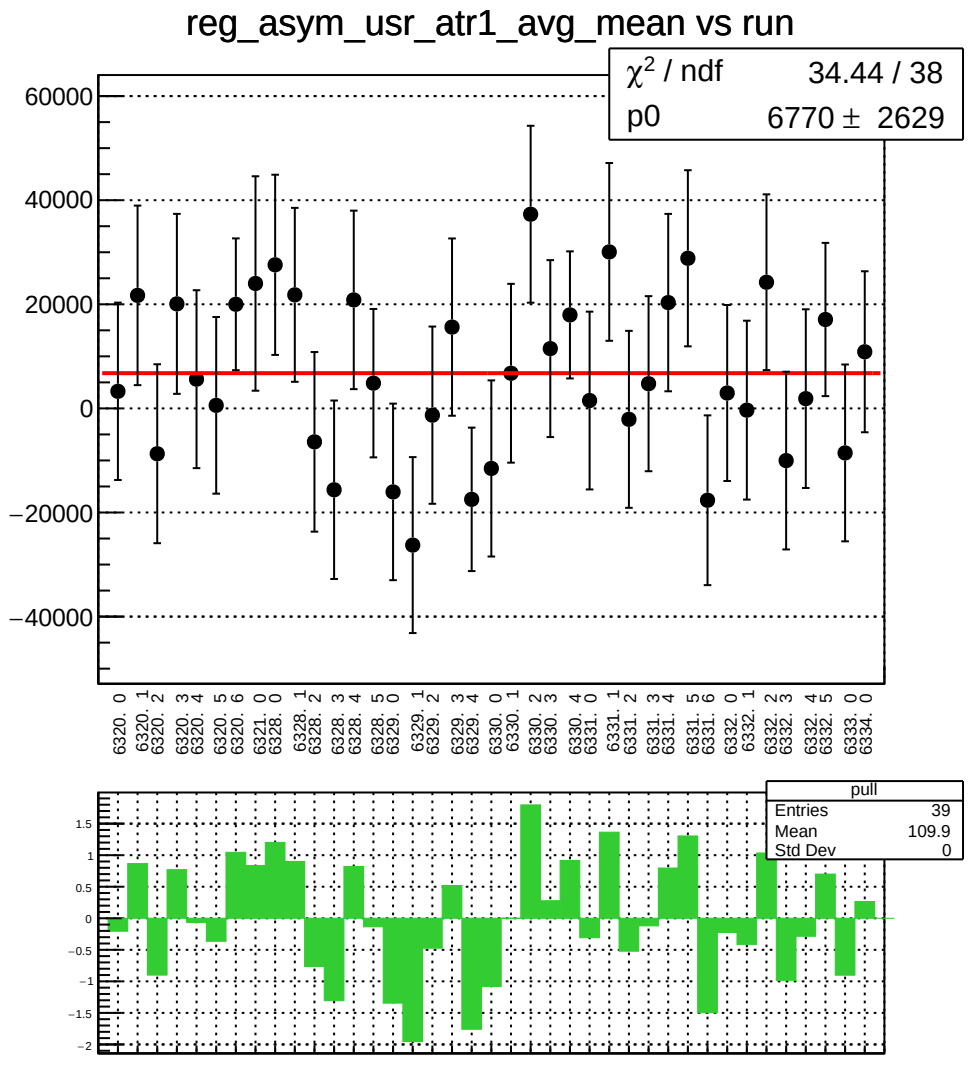

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.34 / 38
p0 −0.0302 ± 0.3305
pull
Entries 39
Mean −269.2
Std Dev 0
pull1D
Entries 39
Mean −0.006155
Std Dev 0.9519

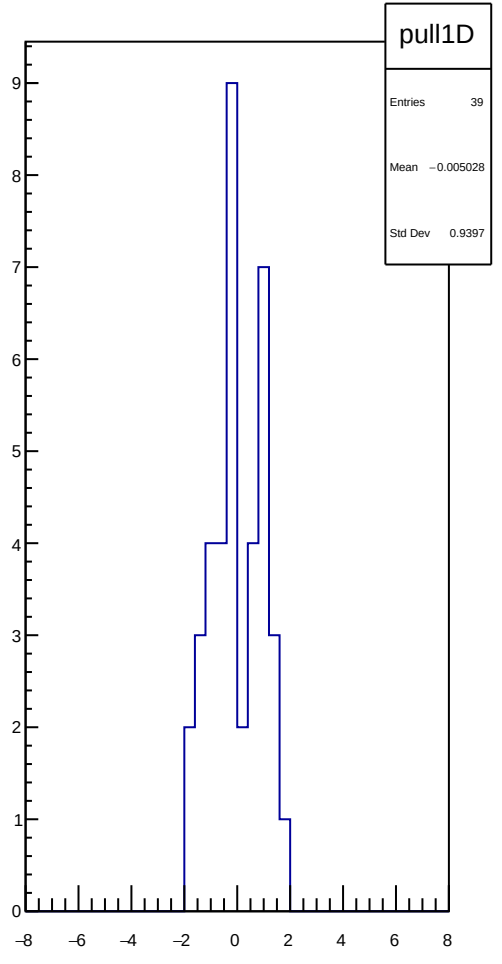

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7653 / 38
p0 202.5 ± 0.2337
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

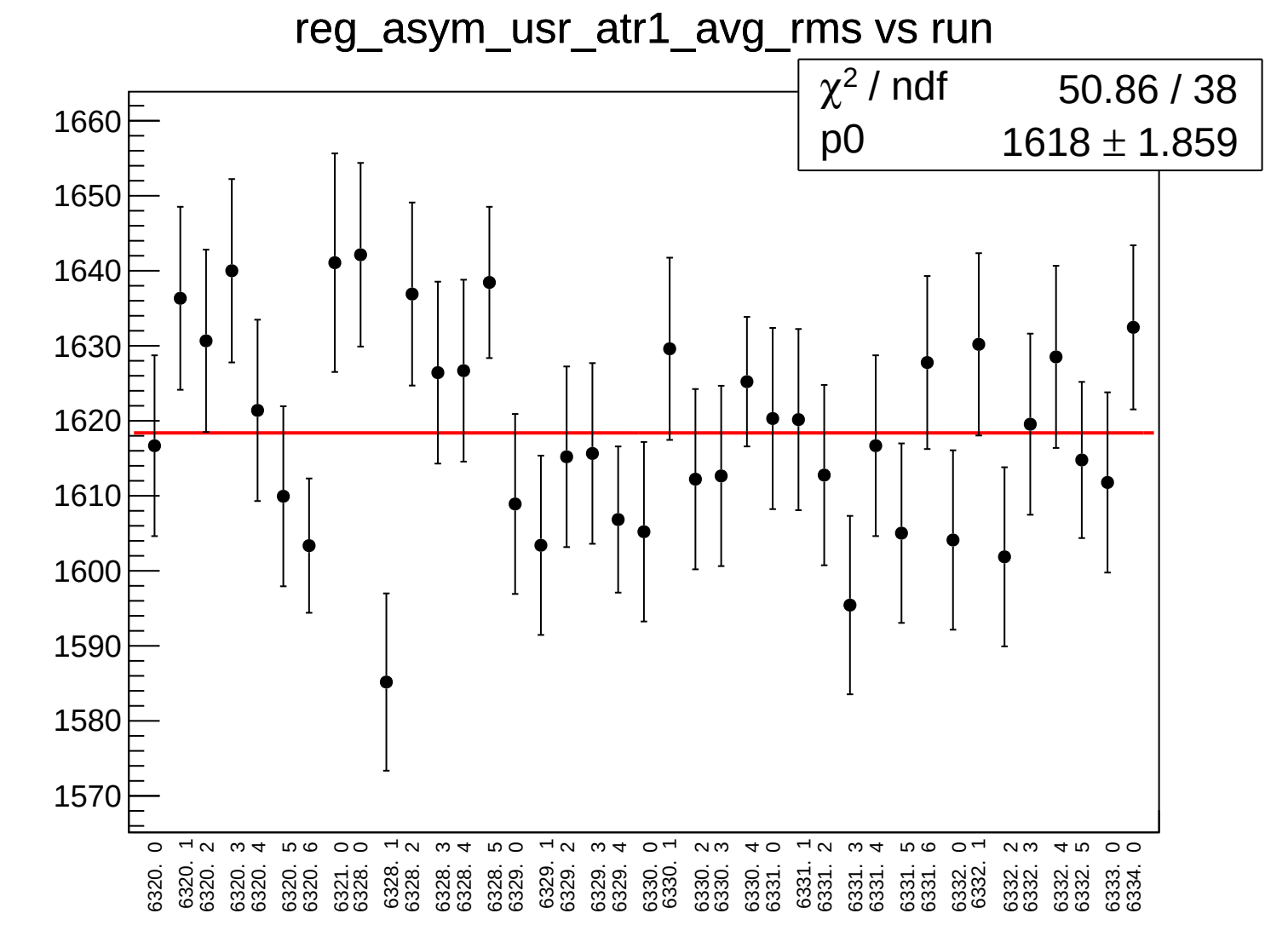

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.65 / 38
p0 8.306e−14 ± 1.332e−13
pull
Entries 39
Mean 83.58
Std Dev 0

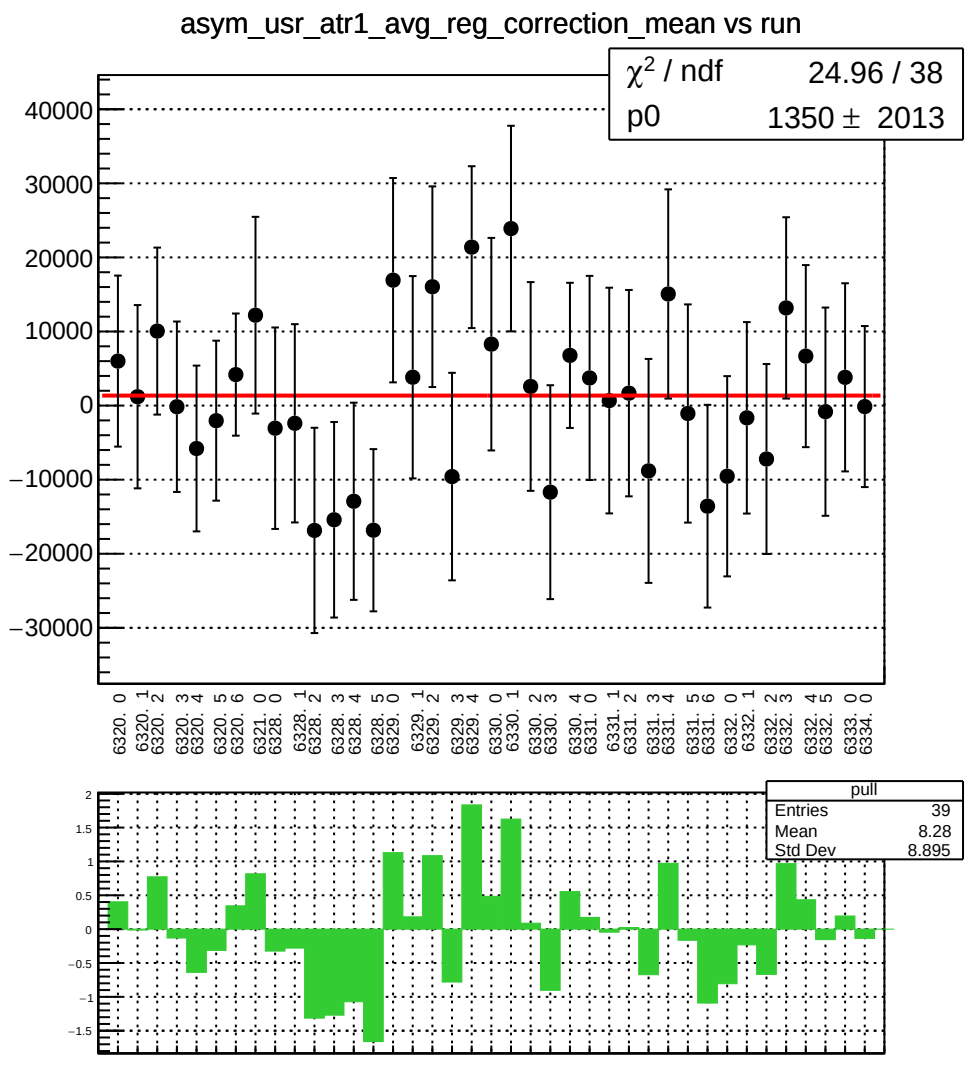

pull1D
Entries 39
Mean −0.03851
Std Dev 0.9

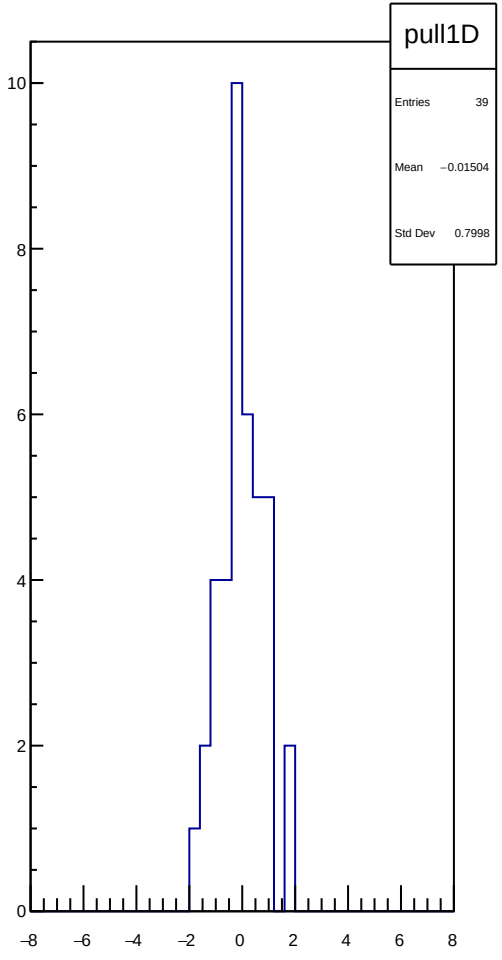

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.135e+05 / 38
p0 6.953e−11 ± 9.422e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

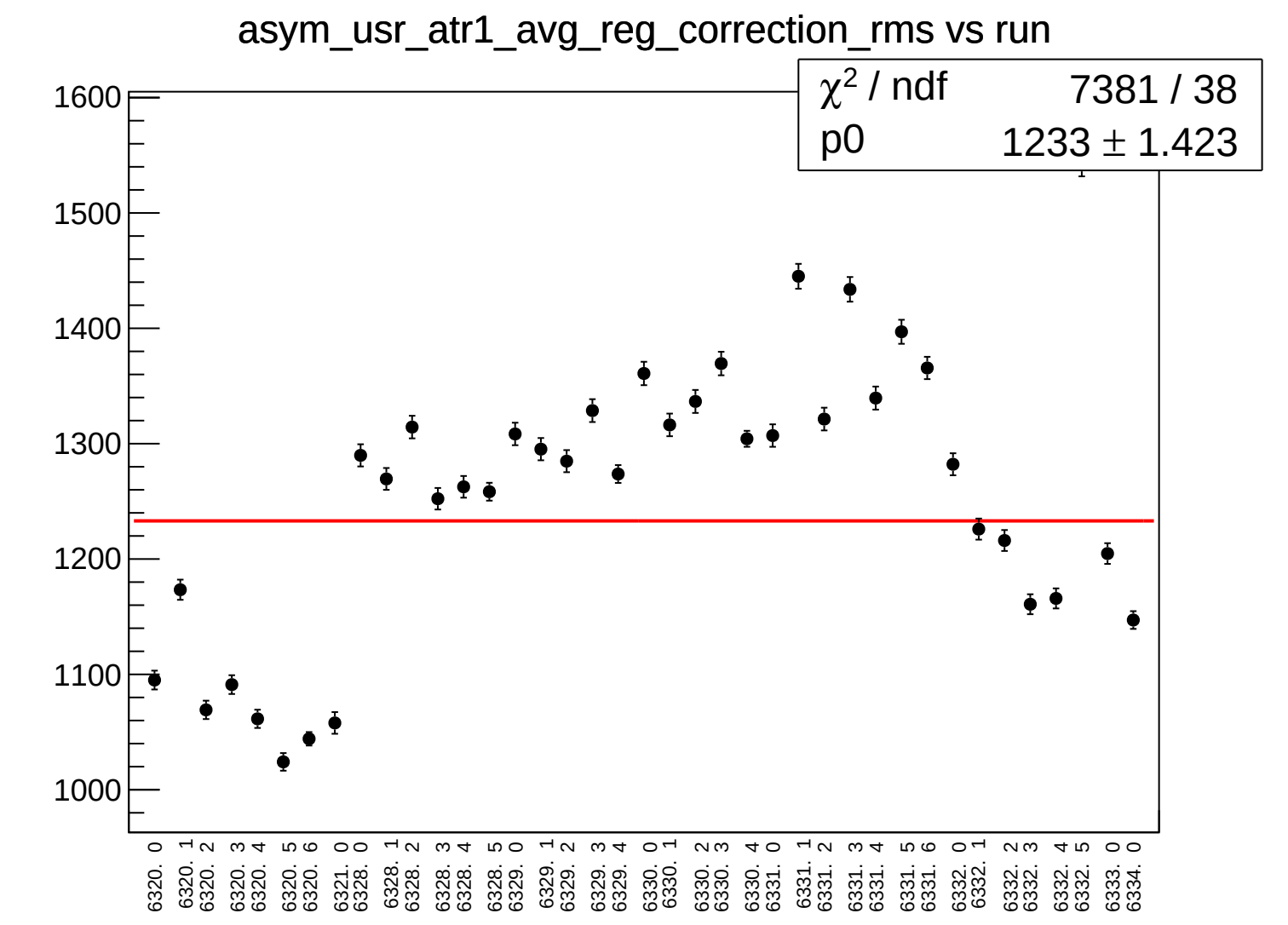

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 34.44 / 38
p0 6770 ± 2629
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 109.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

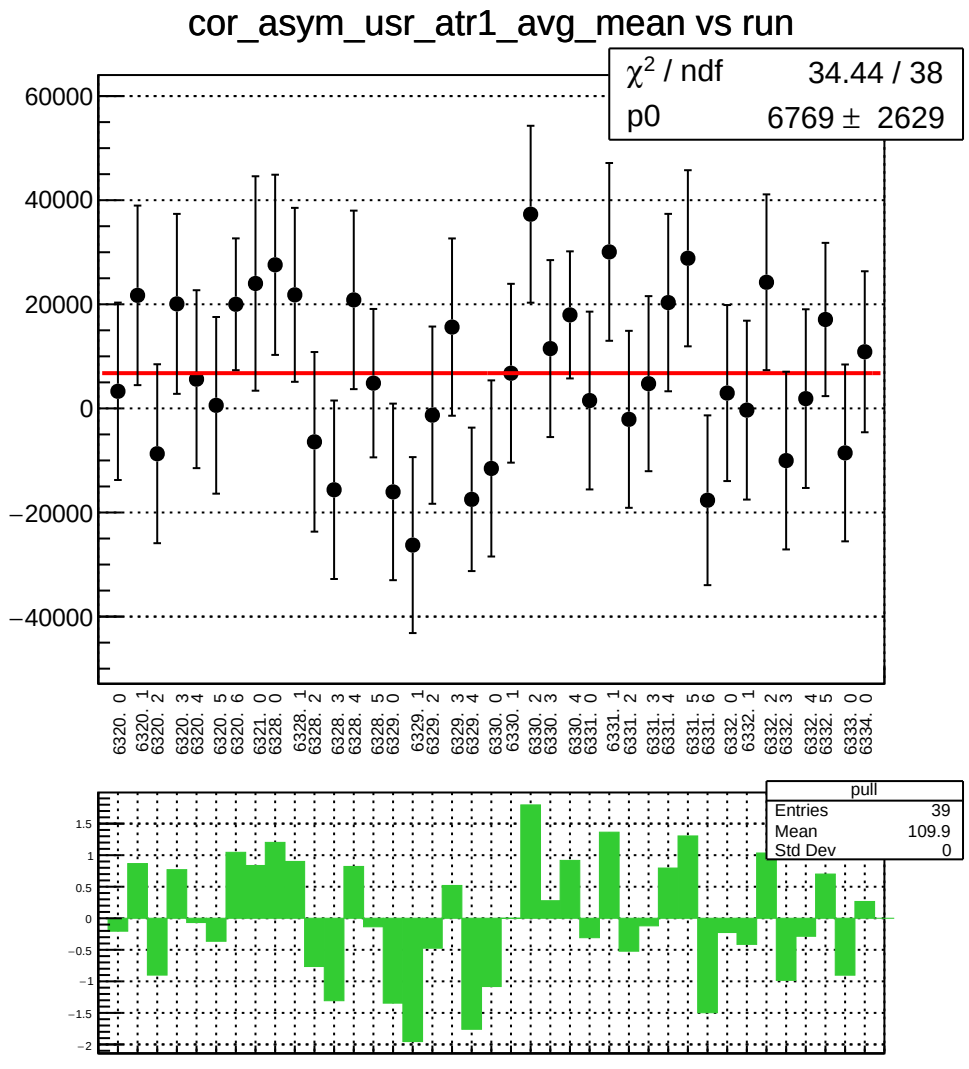

pull1D
Entries 39
Mean −0.005028
Std Dev 0.9397
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

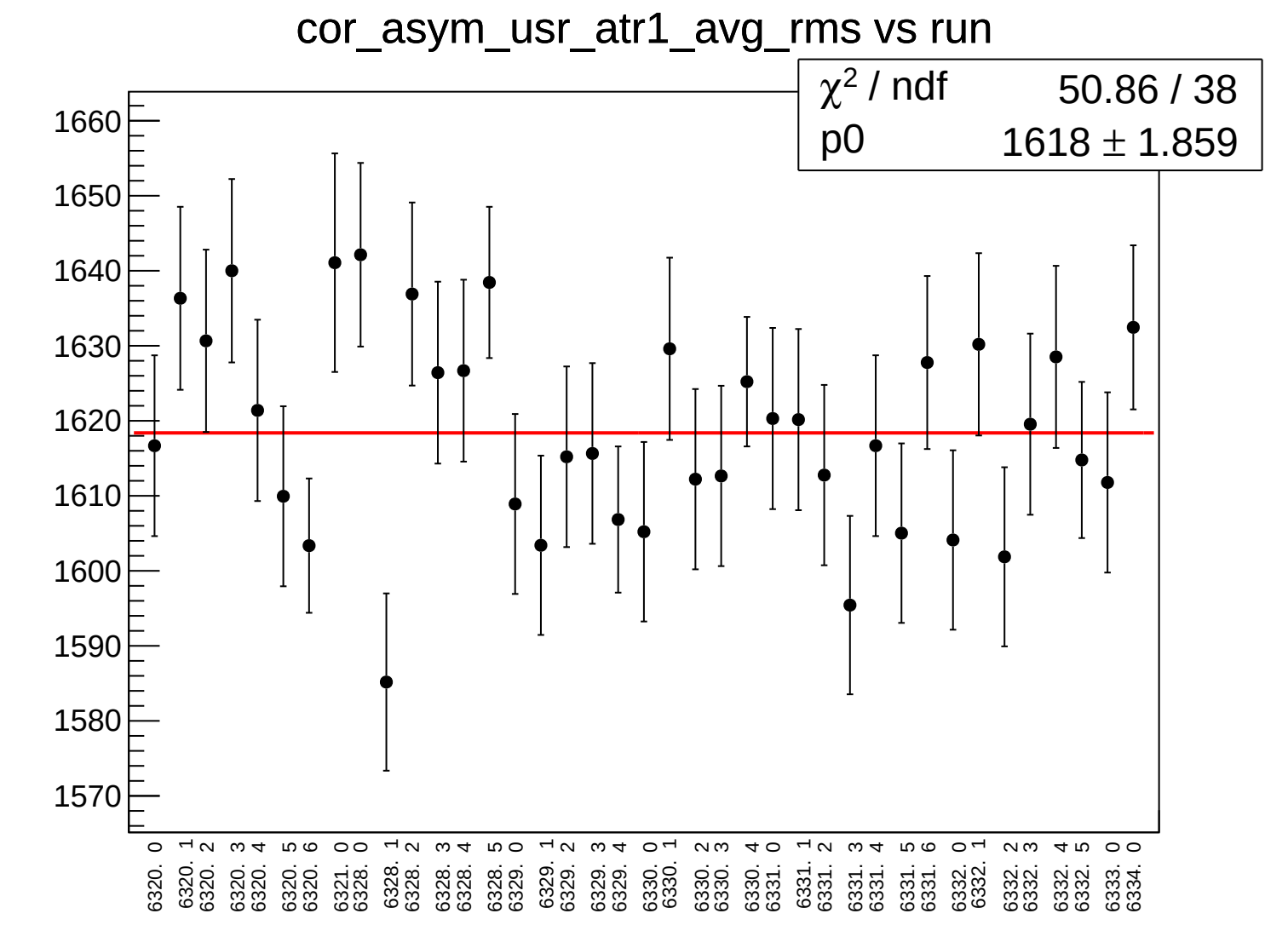

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 50.86 / 38
p0 1618 ± 1.859
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

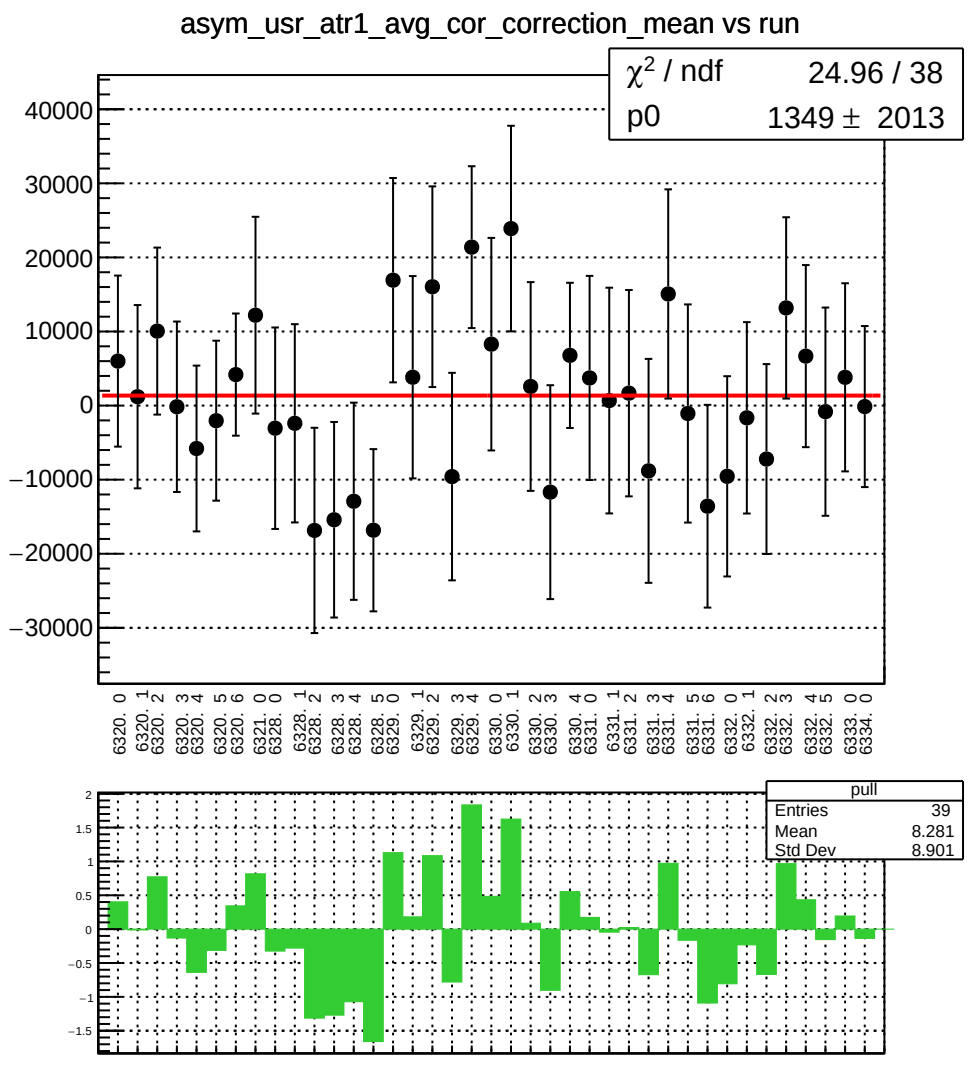

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 24.96 / 38
p0 1350 ± 2013
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.28
Std Dev 8.895
2
1.5
1
0.5
0
−0.5
−1
−1.5

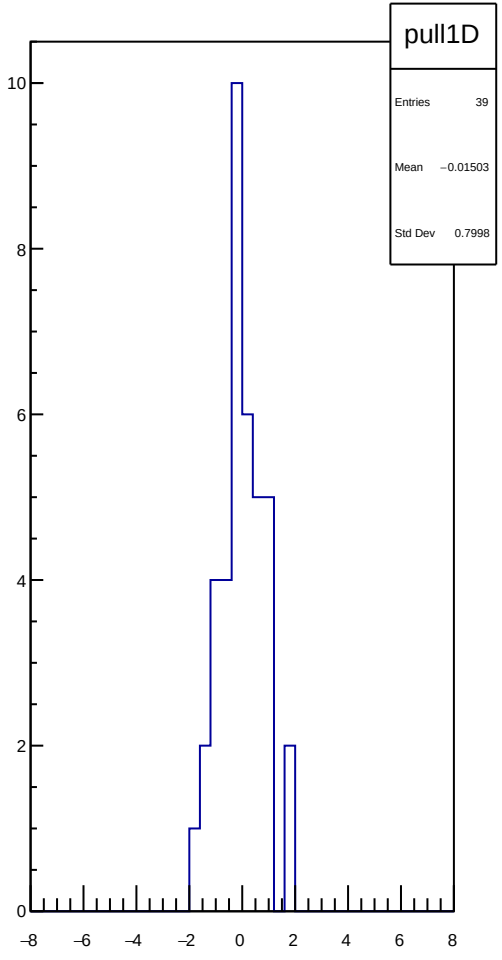

pull1D
Entries 39
Mean −0.01504
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

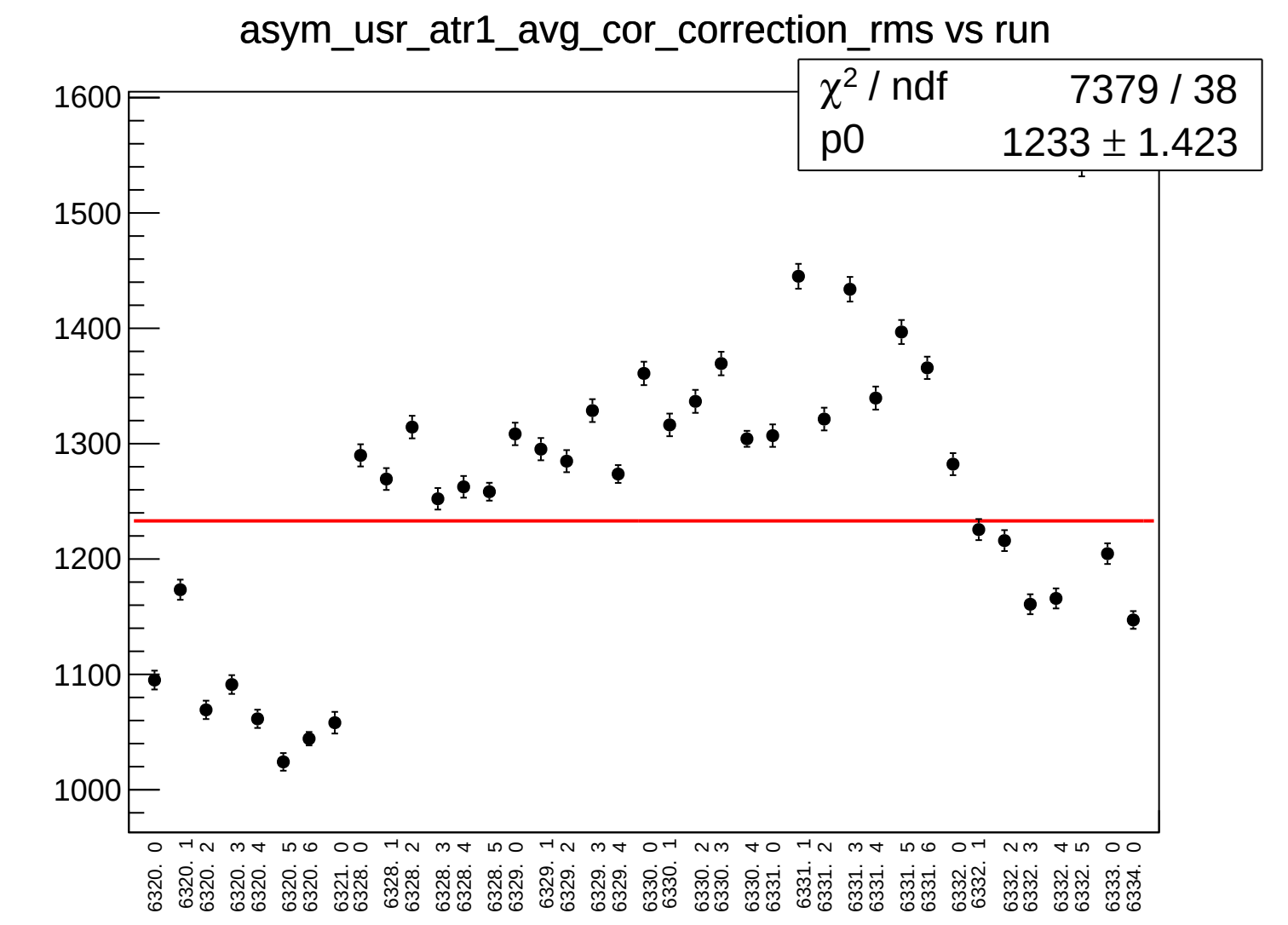

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 7381 / 38
p0 1233 ± 1.423
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

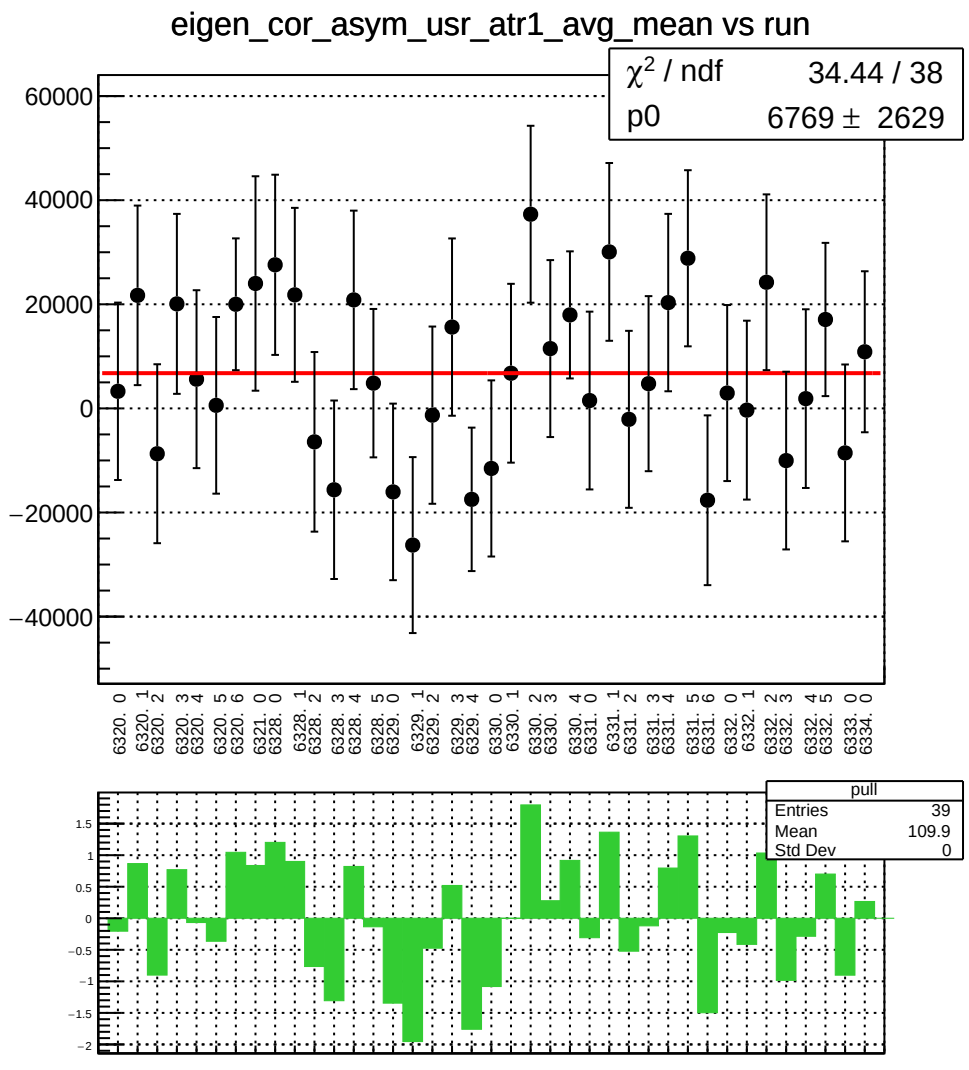

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 34.44 / 38
p0 6769 ± 2629
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 109.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.005029
Std Dev 0.9397
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

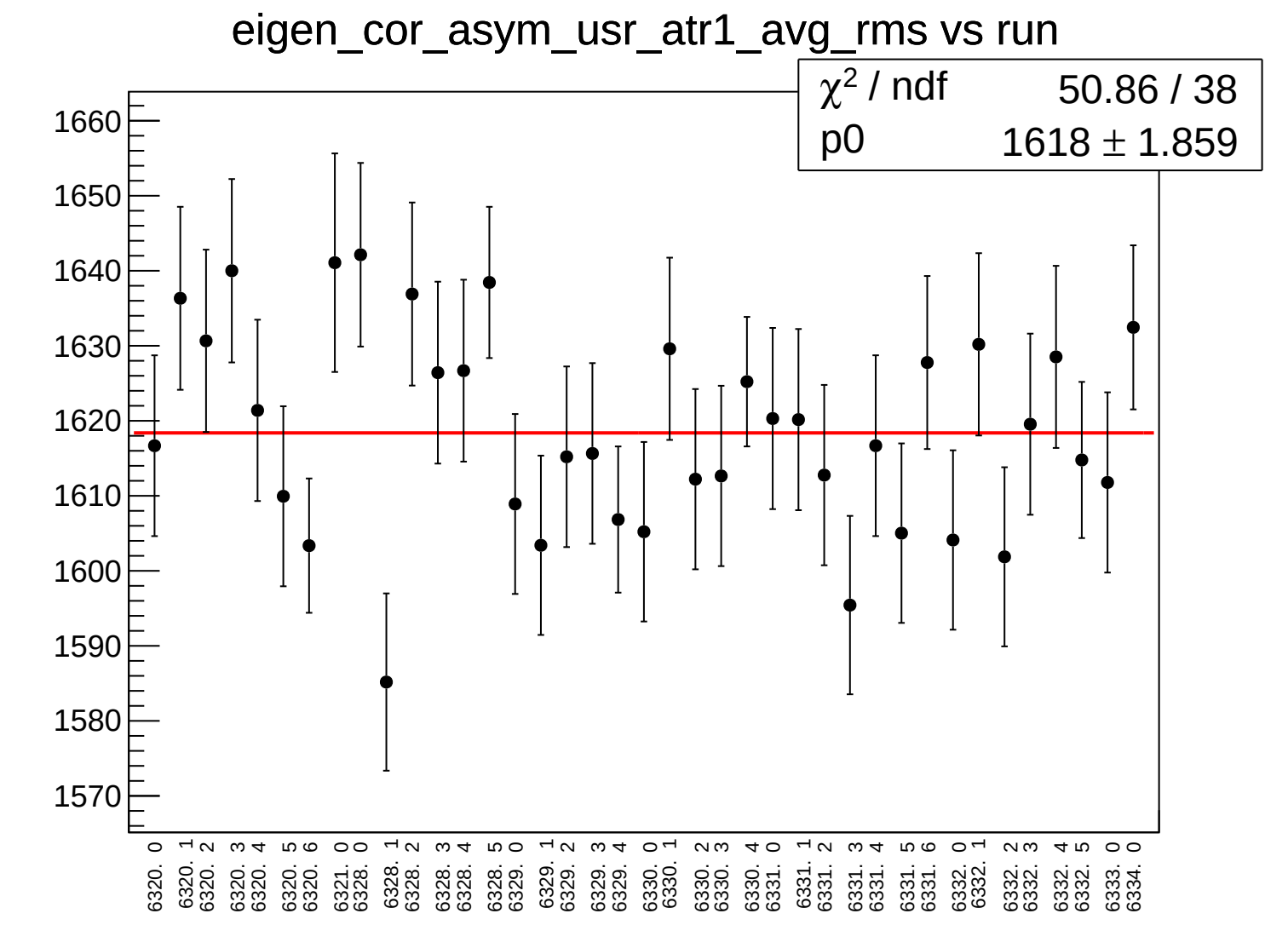

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 50.86 / 38
p0 1618 ± 1.859
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

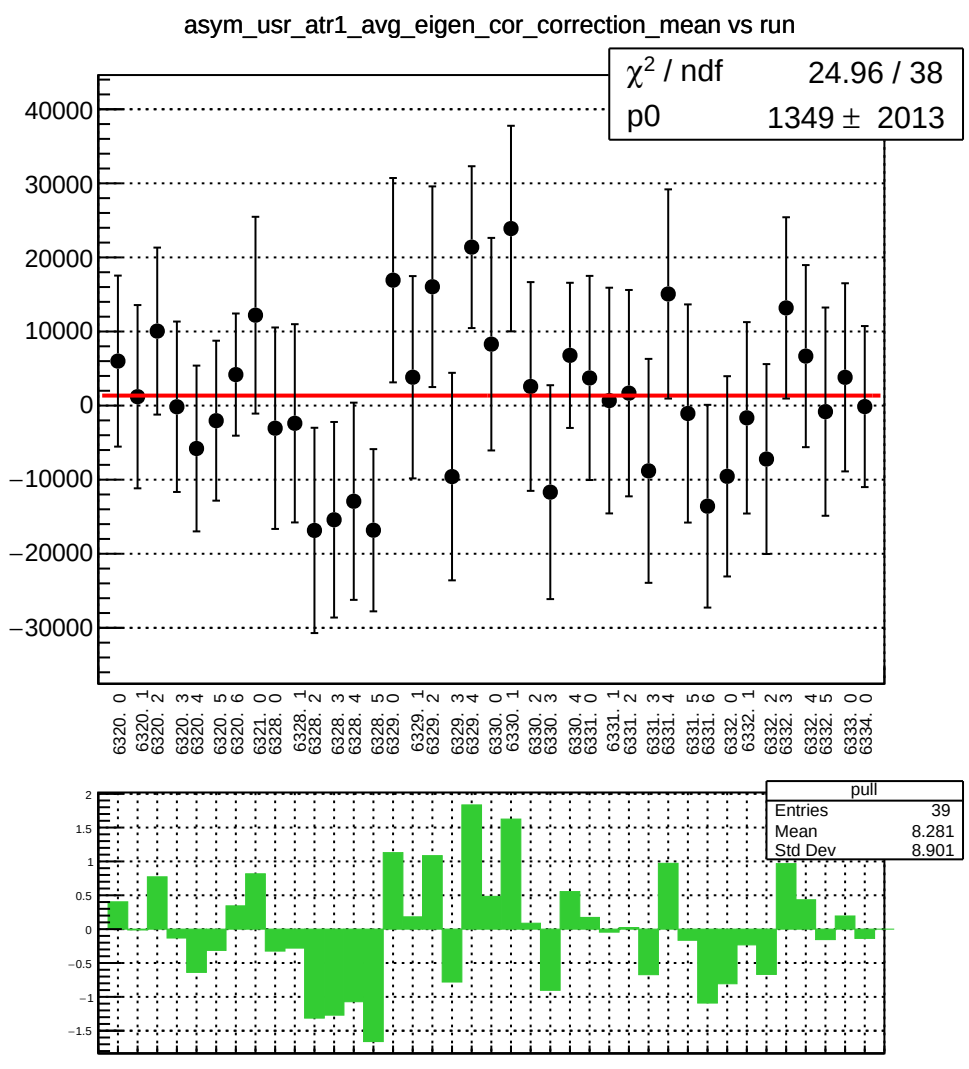

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 24.96 / 38
p0 1349 ± 2013
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.281
Std Dev 8.901
2
1.5
1
0.5
0
−0.5
−1
−1.5

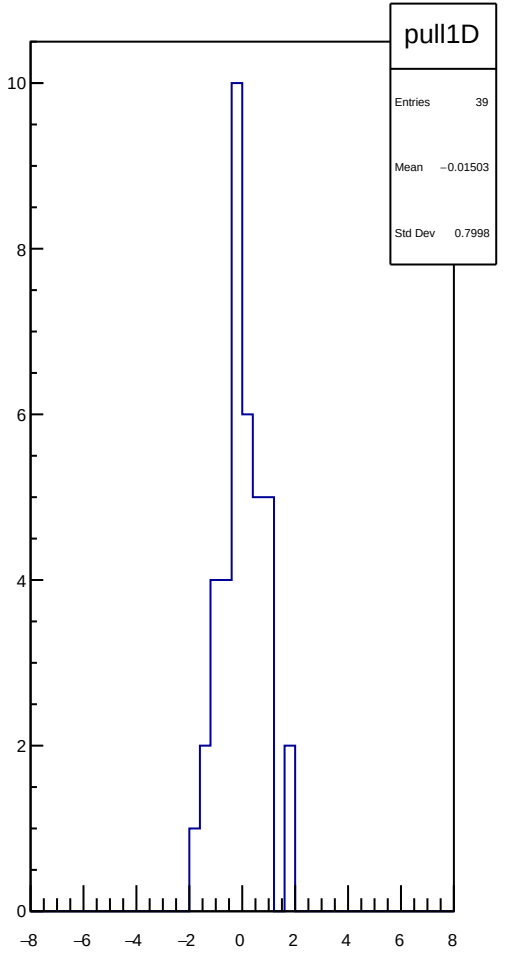

pull1D
Entries 39
Mean −0.01503
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

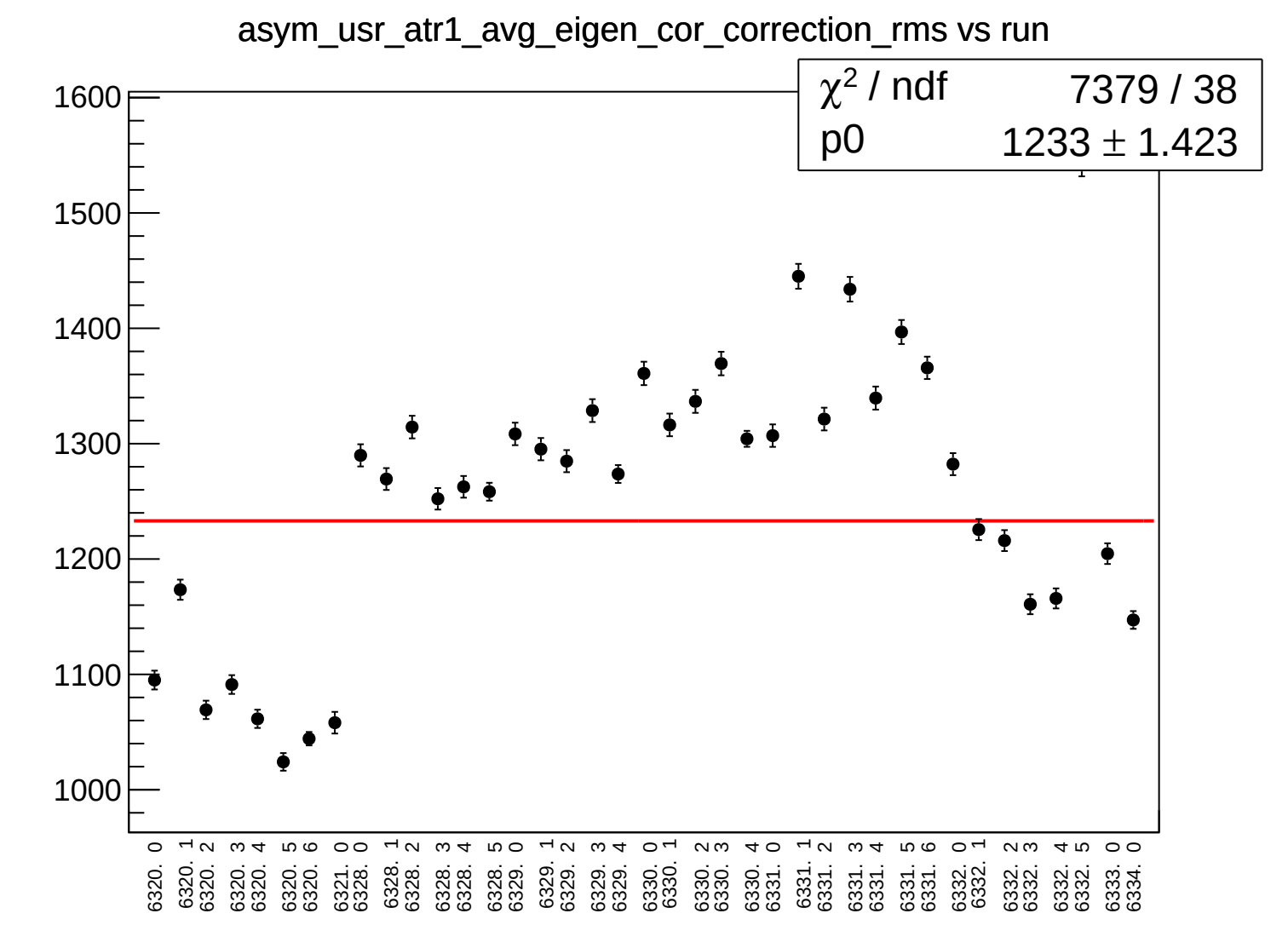

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 7379 / 38
p0 1233 ± 1.423
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

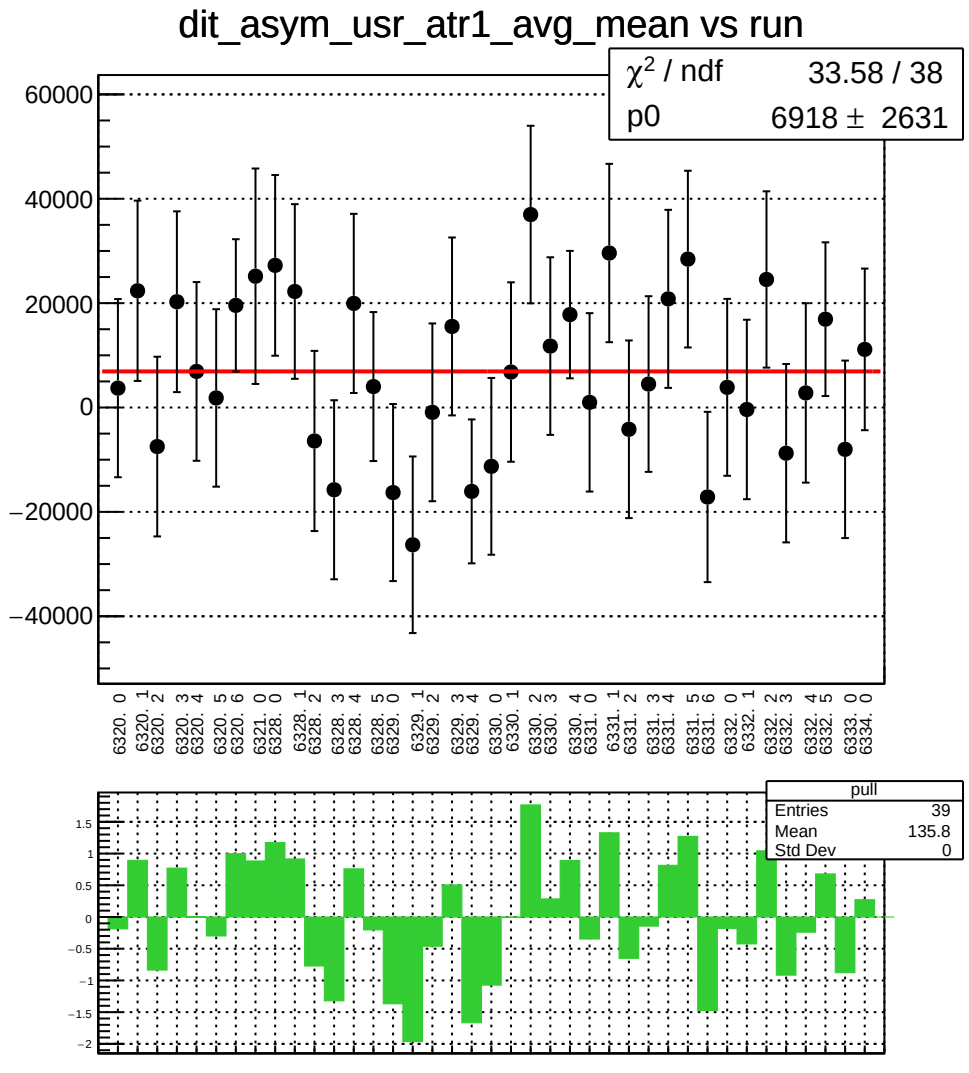

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 34.44 / 38
p0 6769 ± 2629
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 109.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.005029
Std Dev 0.9397
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

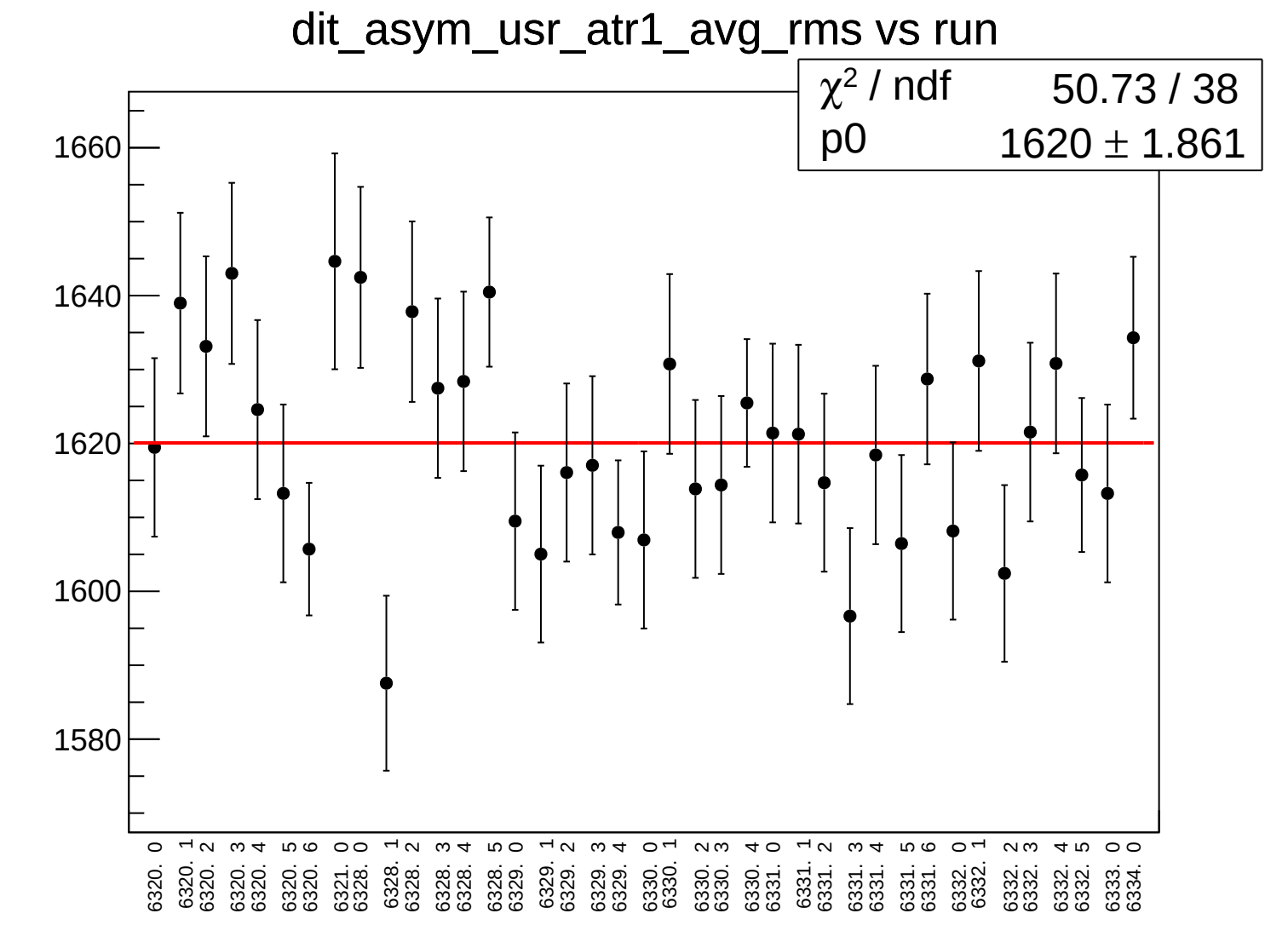

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 50.86 / 38
p0 1618 ± 1.859
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

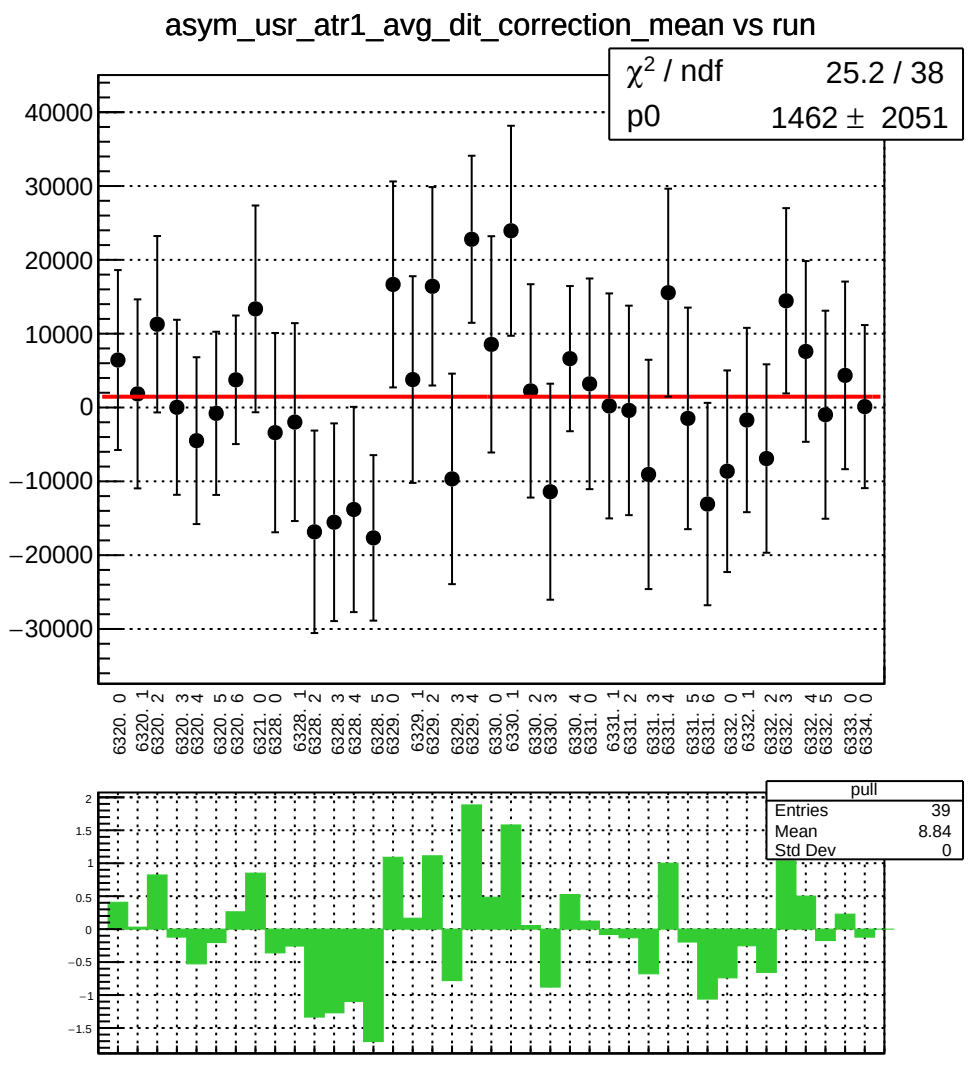

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 24.96 / 38
p0 1349 ± 2013
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.281
Std Dev 8.901
2
1.5
1
0.5
0
−0.5
−1
−1.5

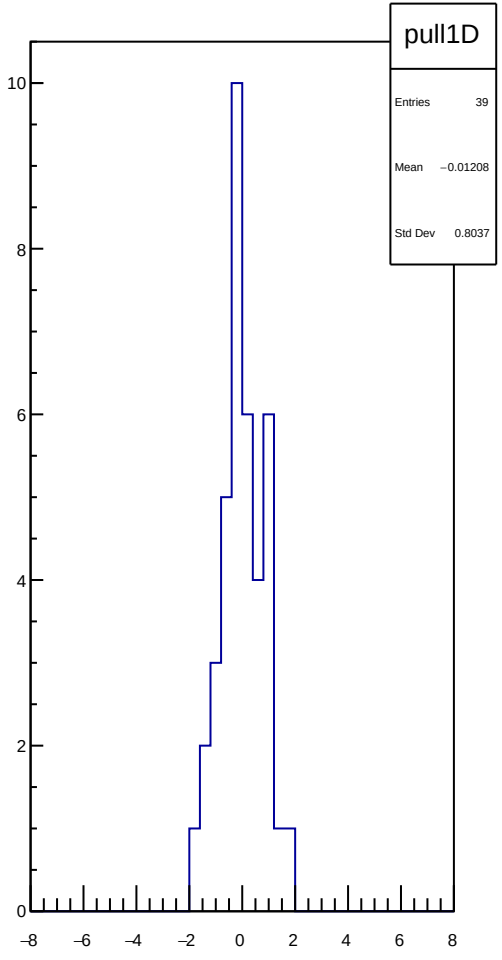

pull1D
Entries 39
Mean −0.01503
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

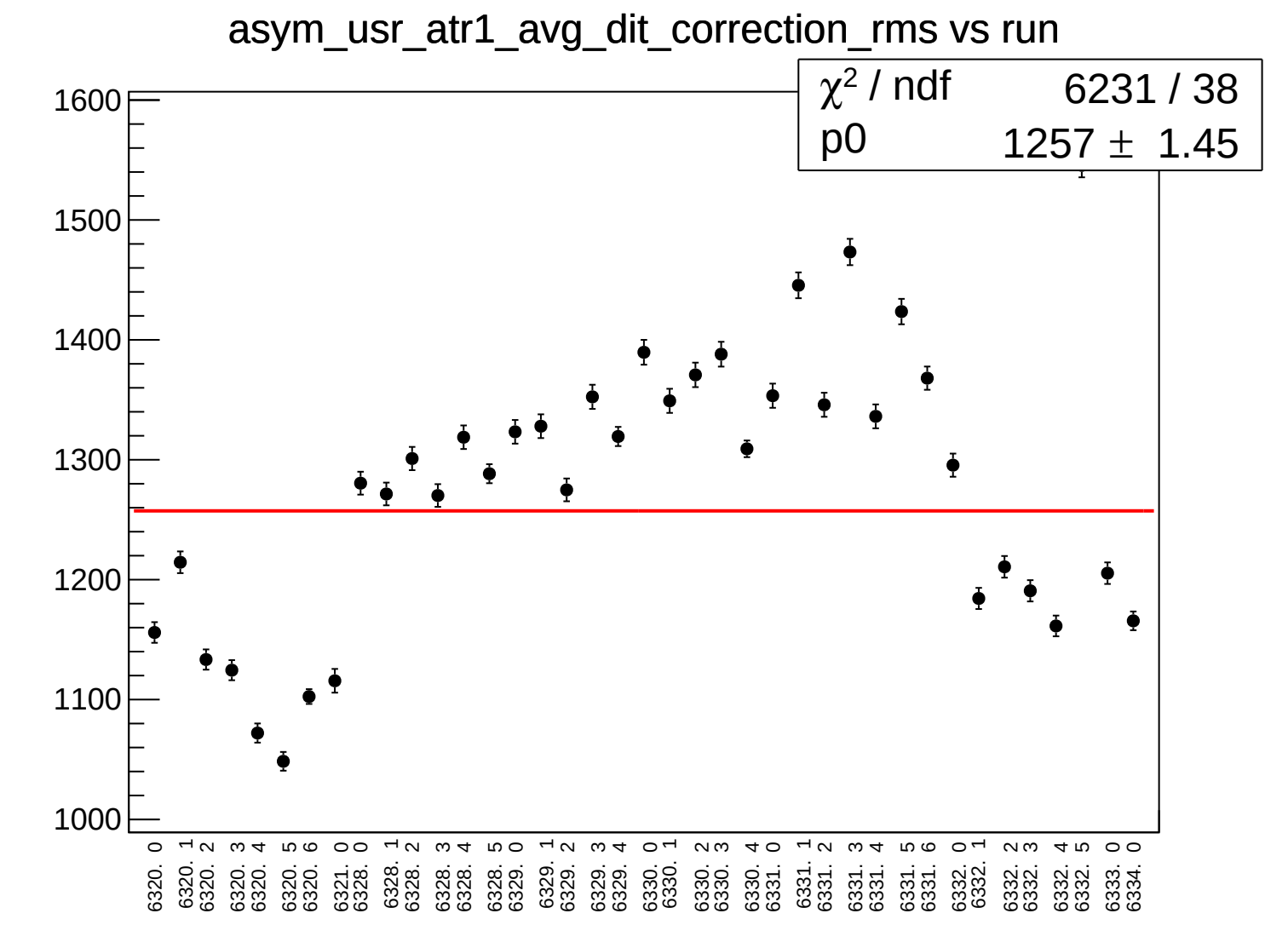

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7379 / 38
p0 1233 ± 1.423
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

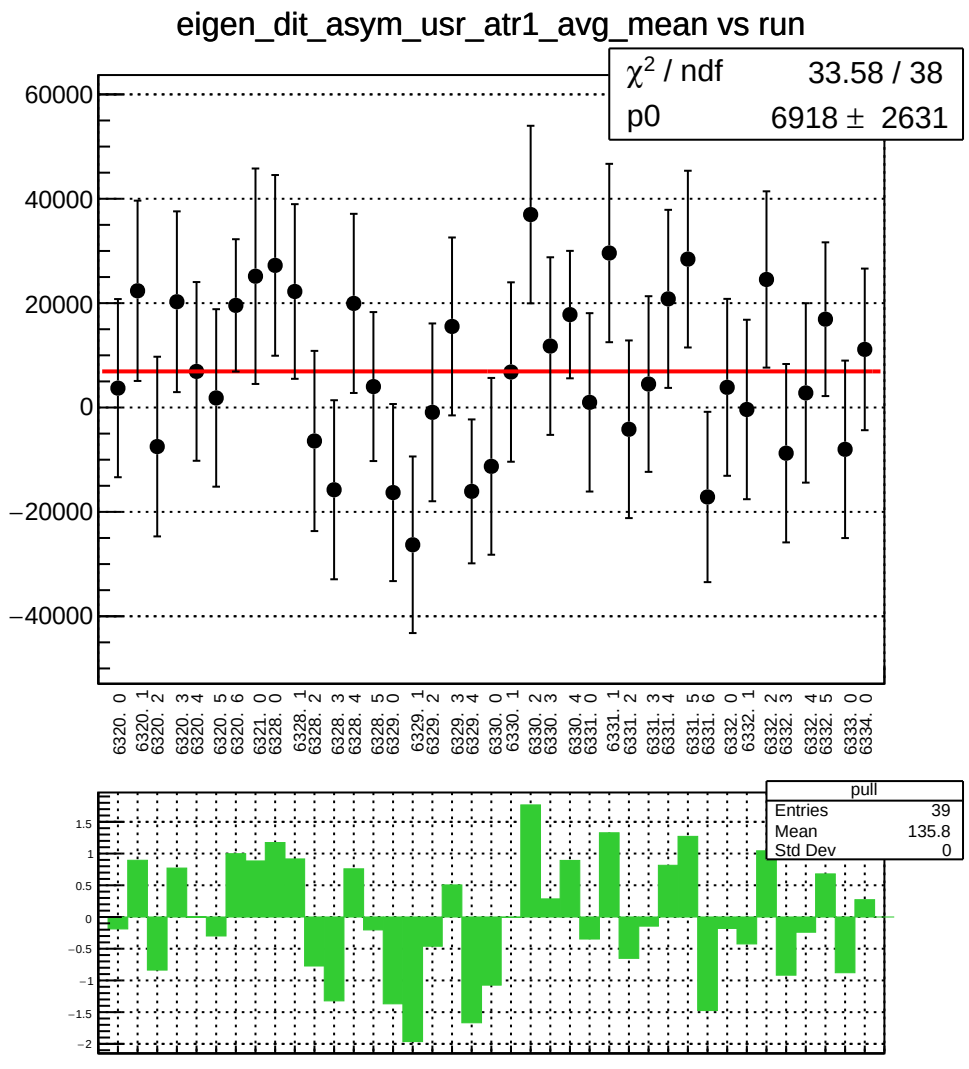

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 33.58 / 38
p0 6918 ± 2631
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 135.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.004271
Std Dev 0.9279
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

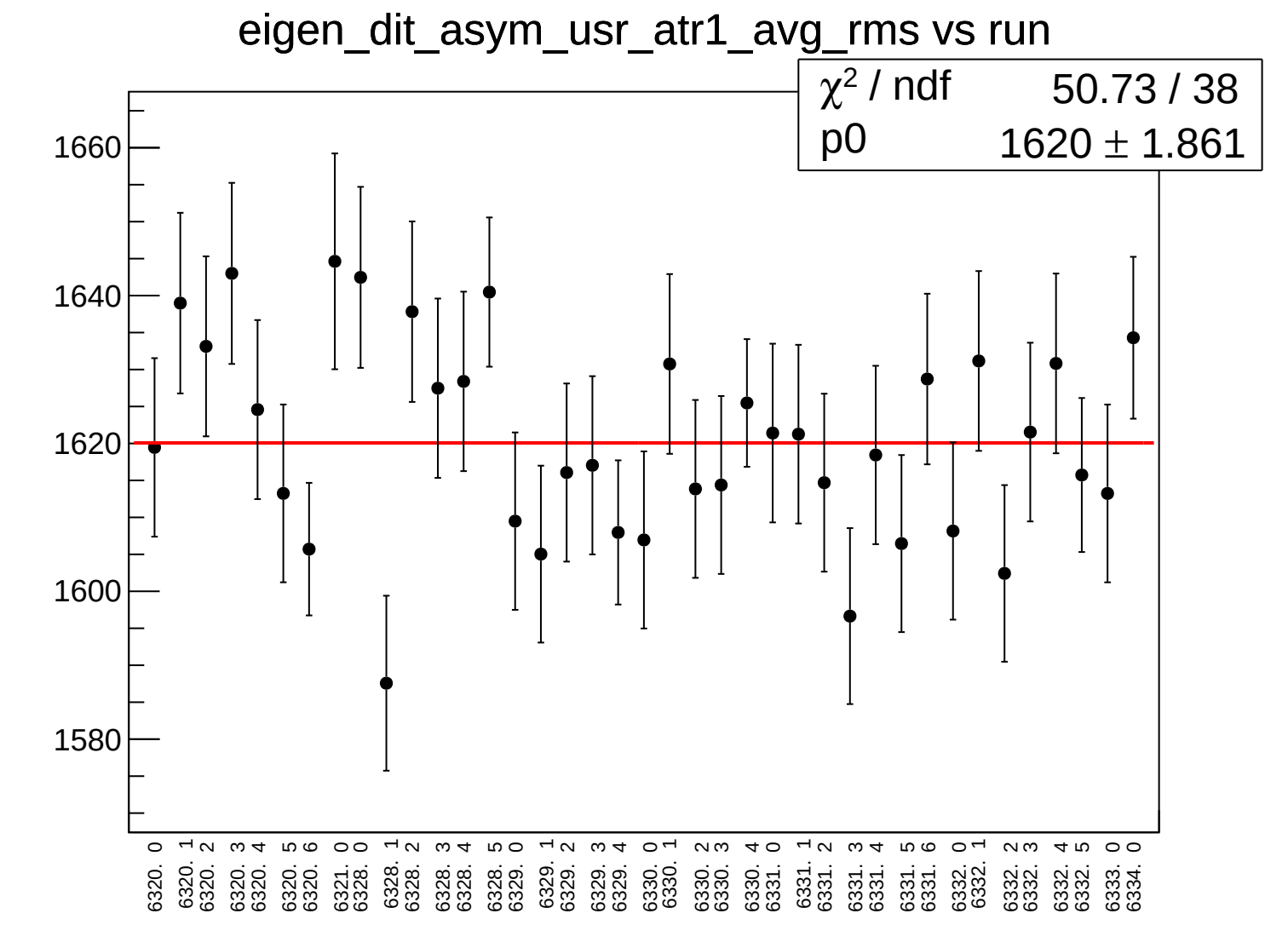

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 50.73 / 38
p0 1620 ± 1.861
1660
1640
1620
1600
1580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

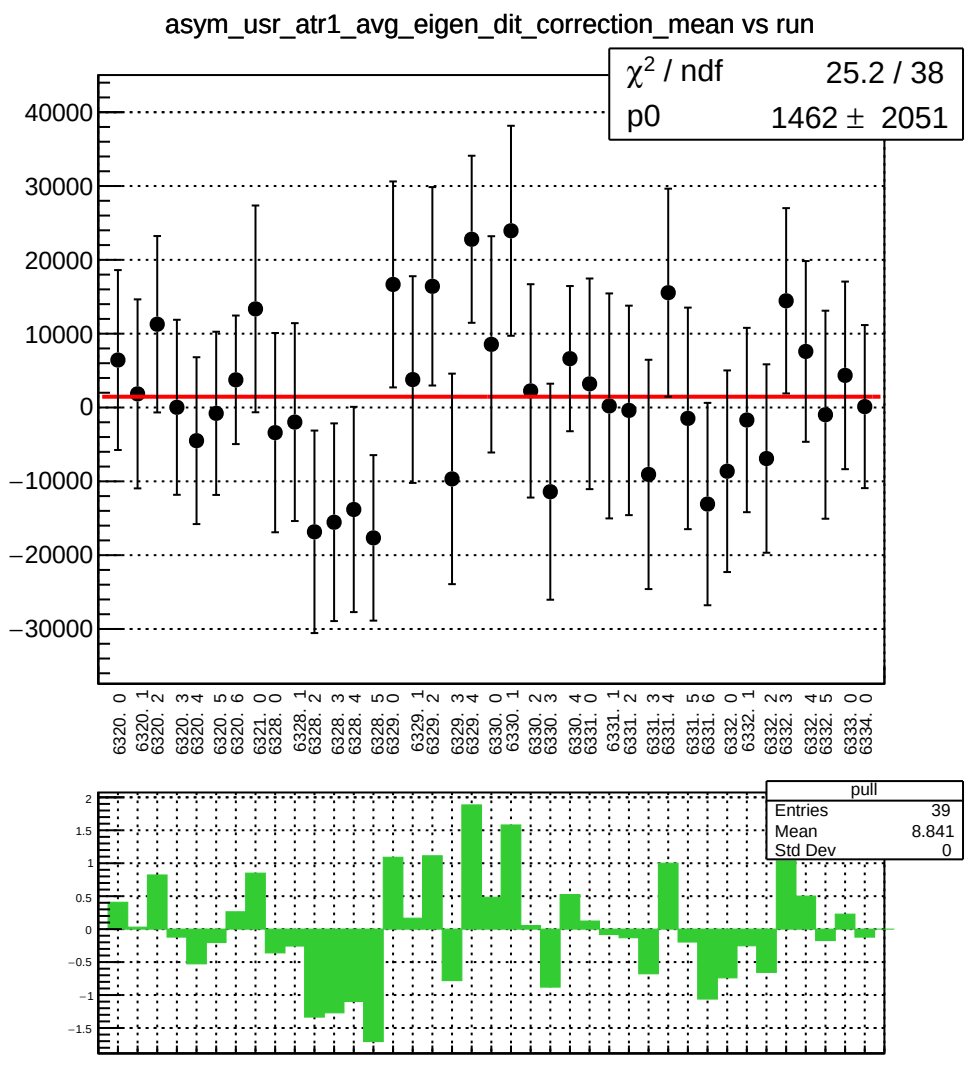

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 25.2 / 38
p0 1462 ± 2051
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

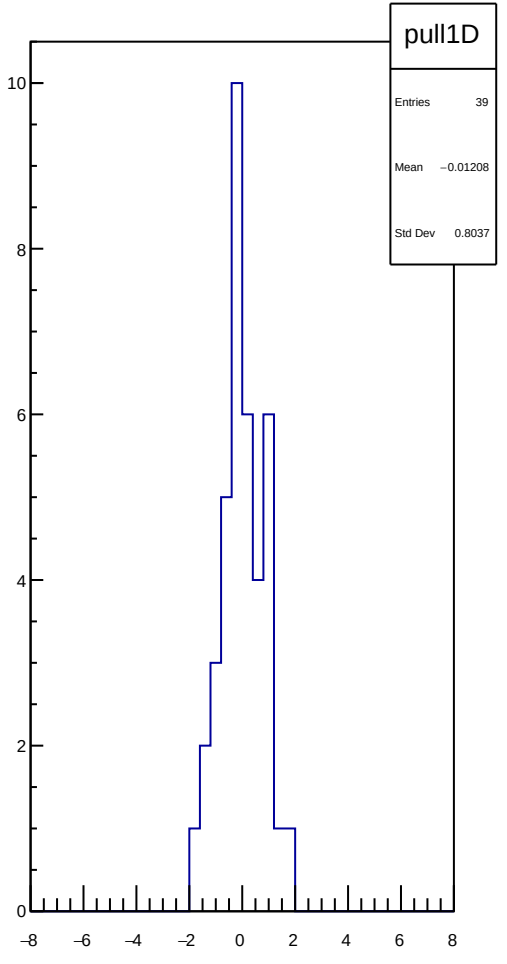

pull1D
Entries 39
Mean −0.01208
Std Dev 0.8037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

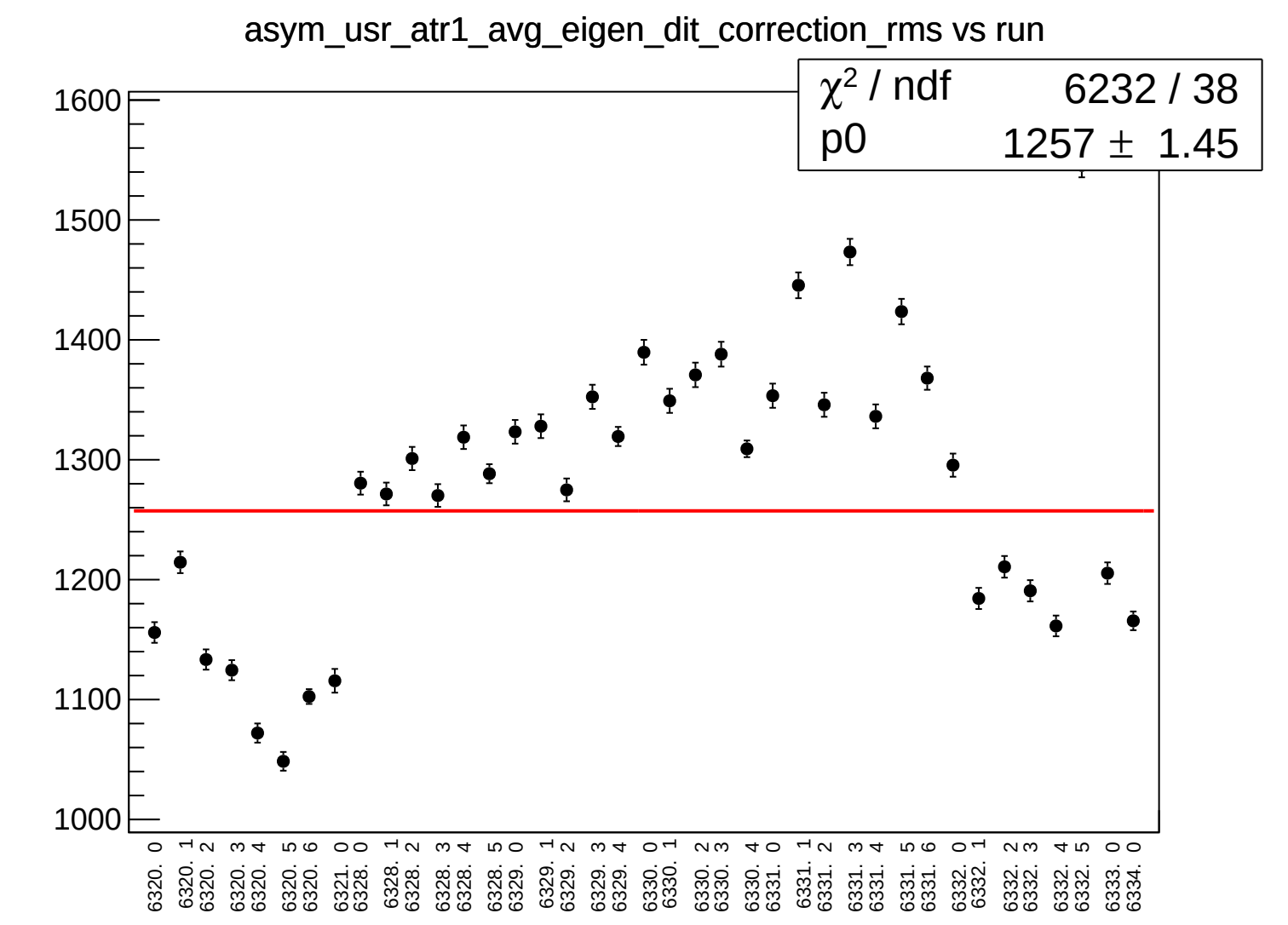

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 6231 / 38
p0 1257 ± 1.45
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

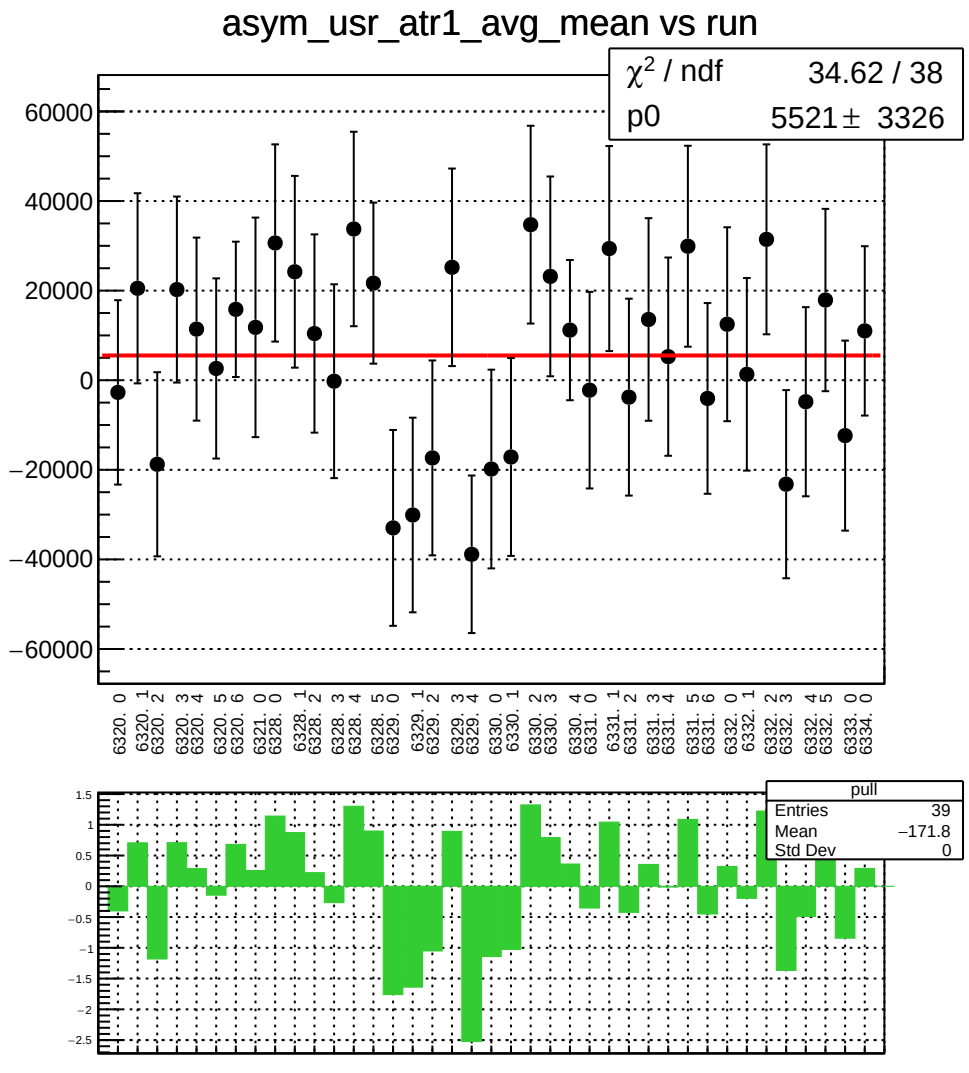

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 33.58 / 38
p0 6918 ± 2631
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 135.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.004271
Std Dev 0.9279
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

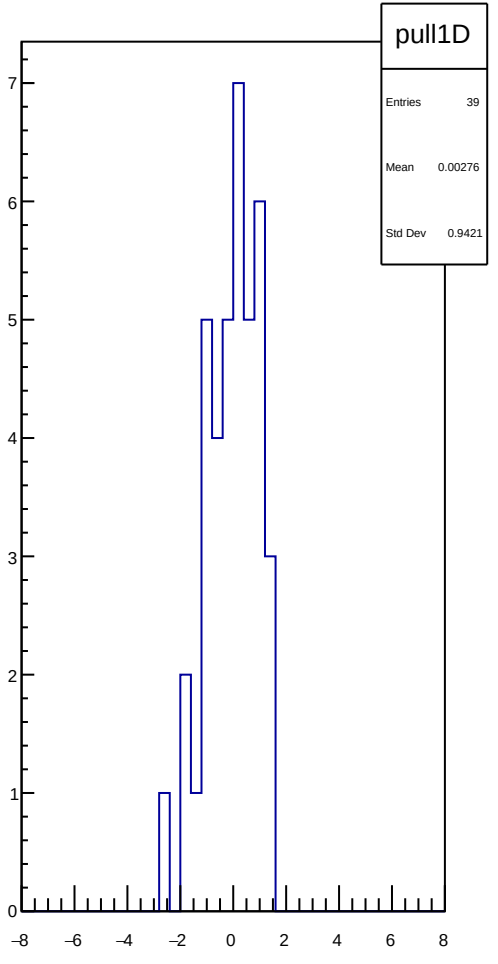

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 50.73 / 38
p0 1620 ± 1.861
1660
1640
1620
1600
1580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

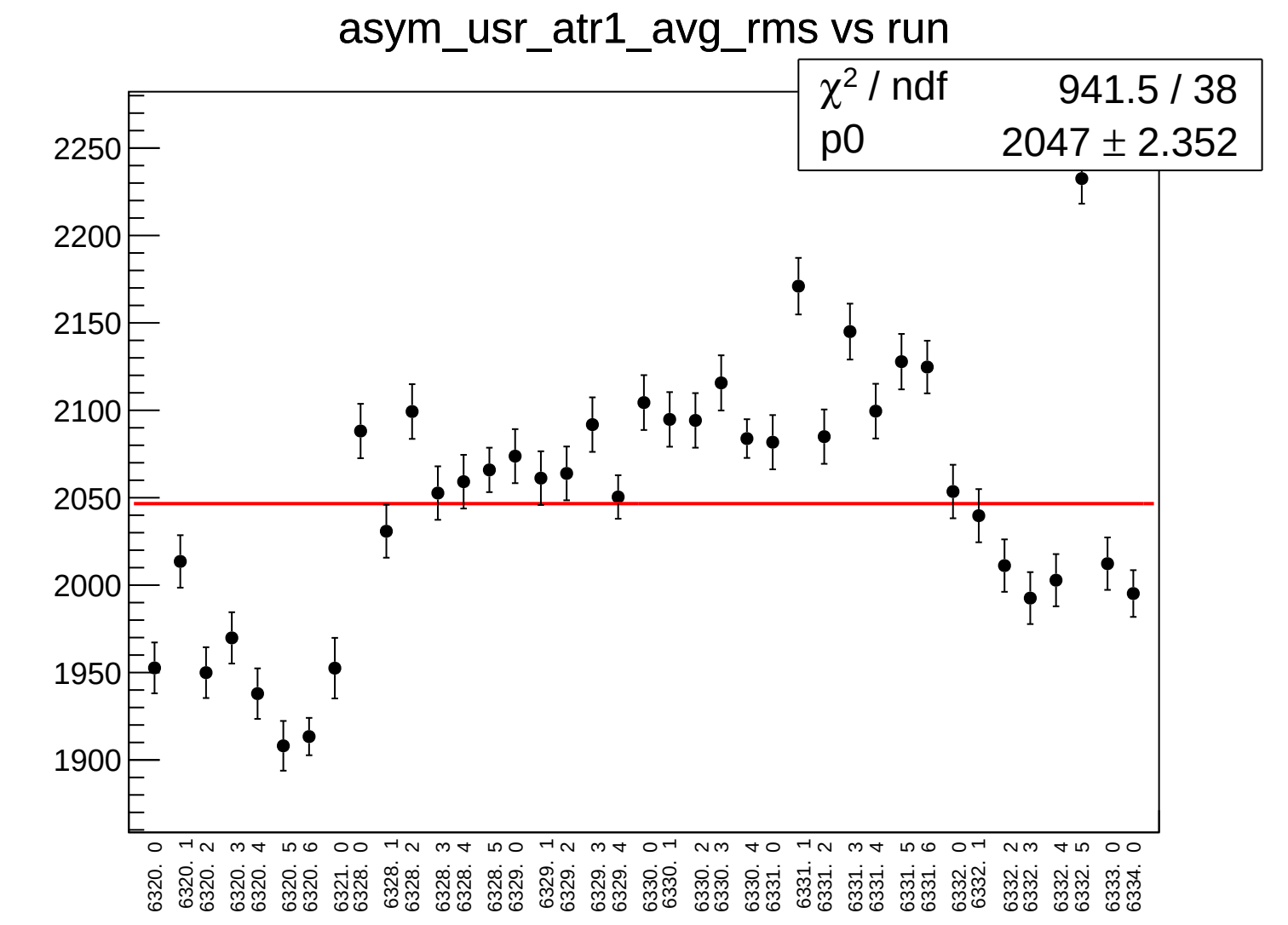

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.2 / 38
p0 1462 ± 2051
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.841
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

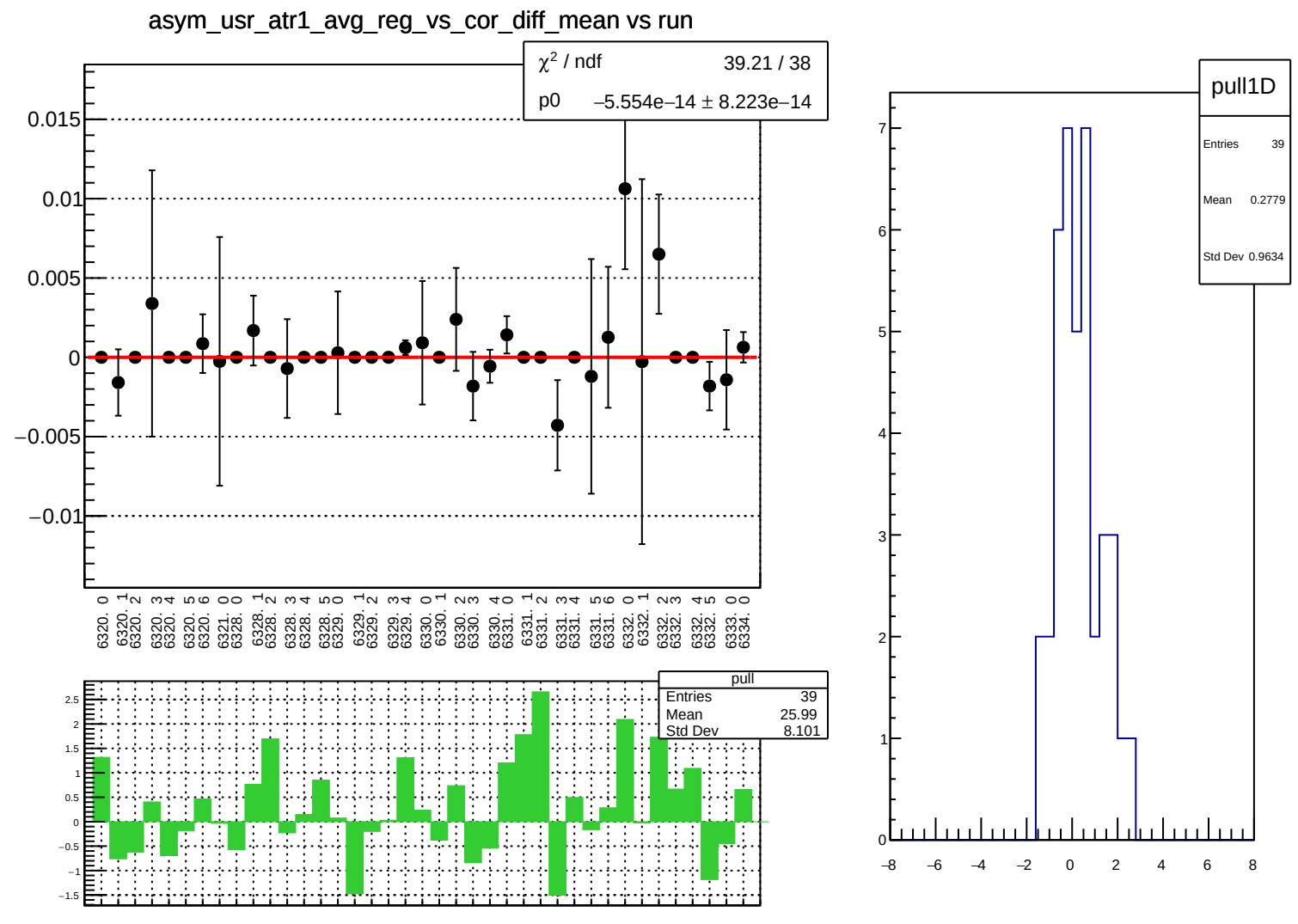

pull1D
Entries 39
Mean −0.01208
Std Dev 0.8037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

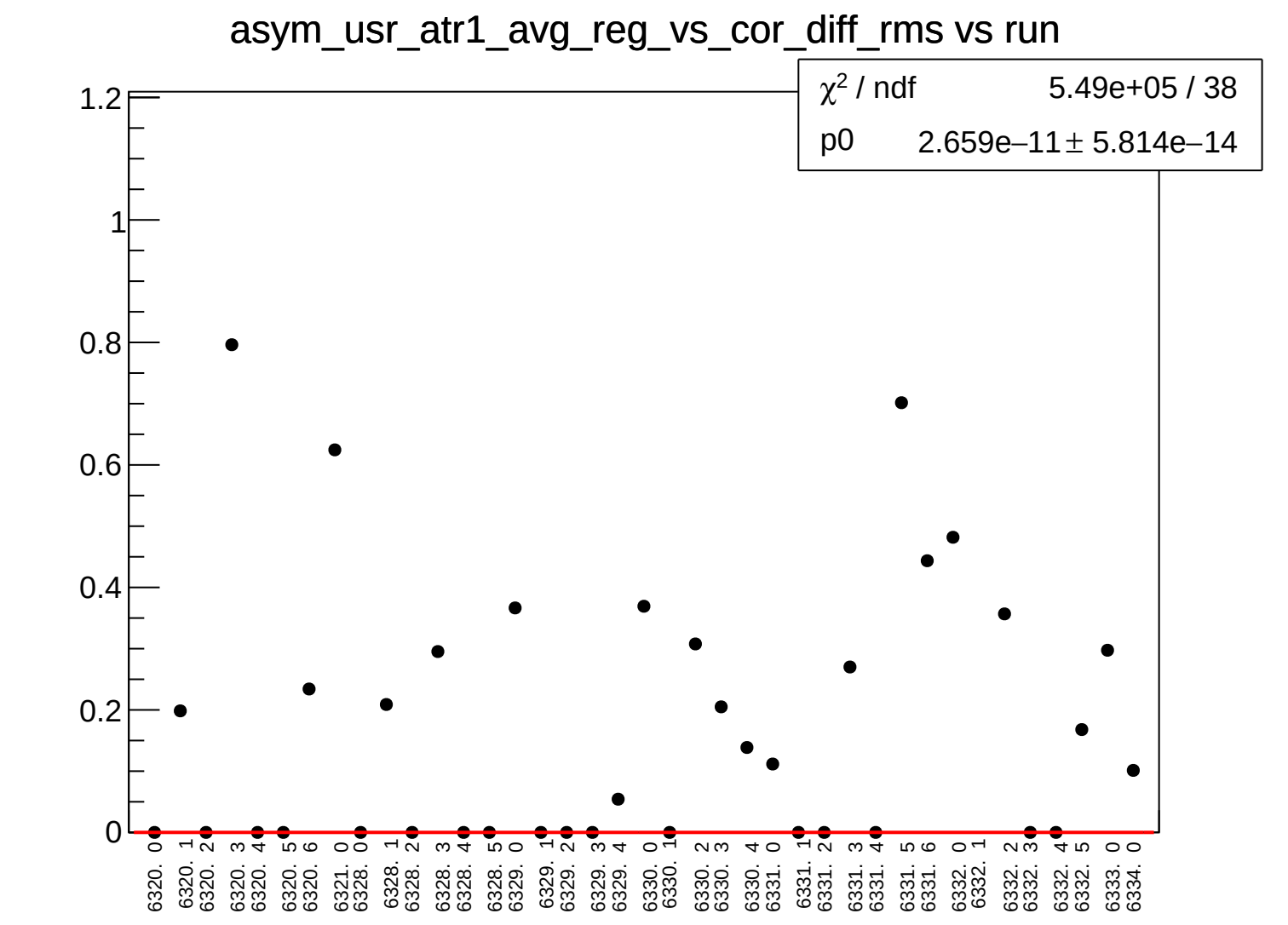

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6232 / 38
p0 1257 ± 1.45
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

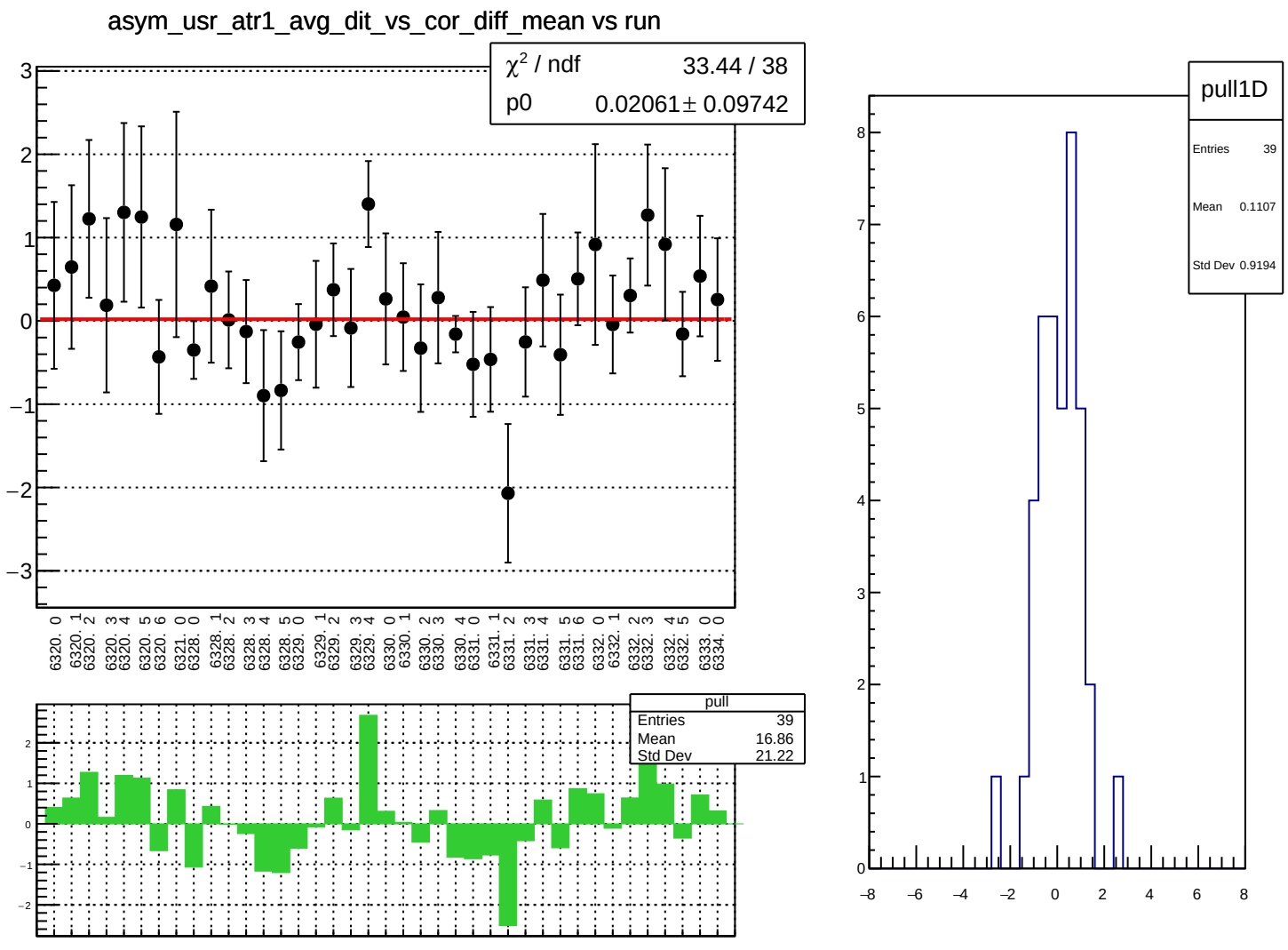

asym_usr_atr1_avg_mean vs run
χ² / ndf 34.62 / 38
p0 5521 ± 3326
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −171.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

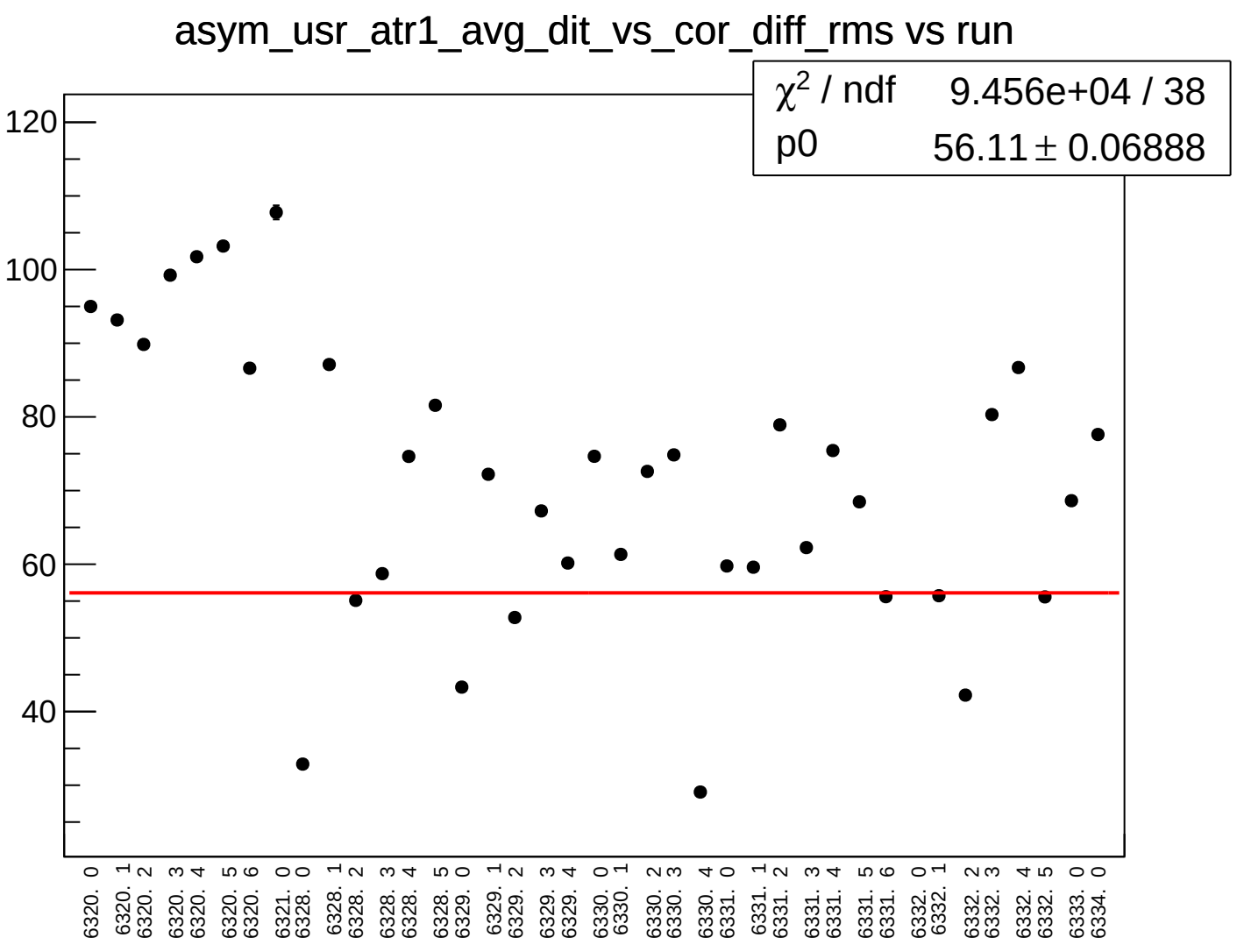

pull1D
Entries 39
Mean 0.00276
Std Dev 0.9421
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

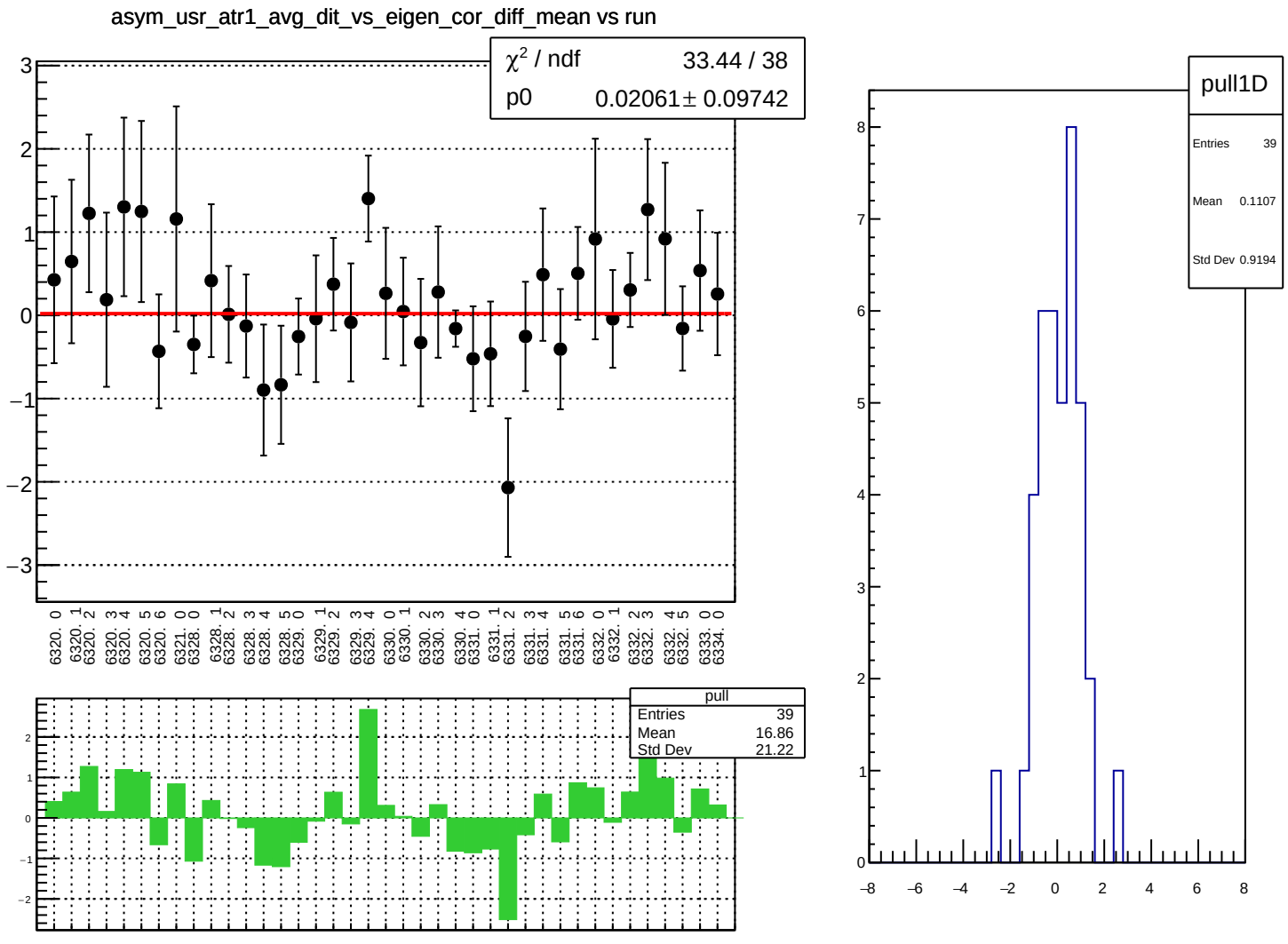

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 941.5 / 38
p0 2047 ± 2.352
2250
2200
2150
2100
2050
2000
1950
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

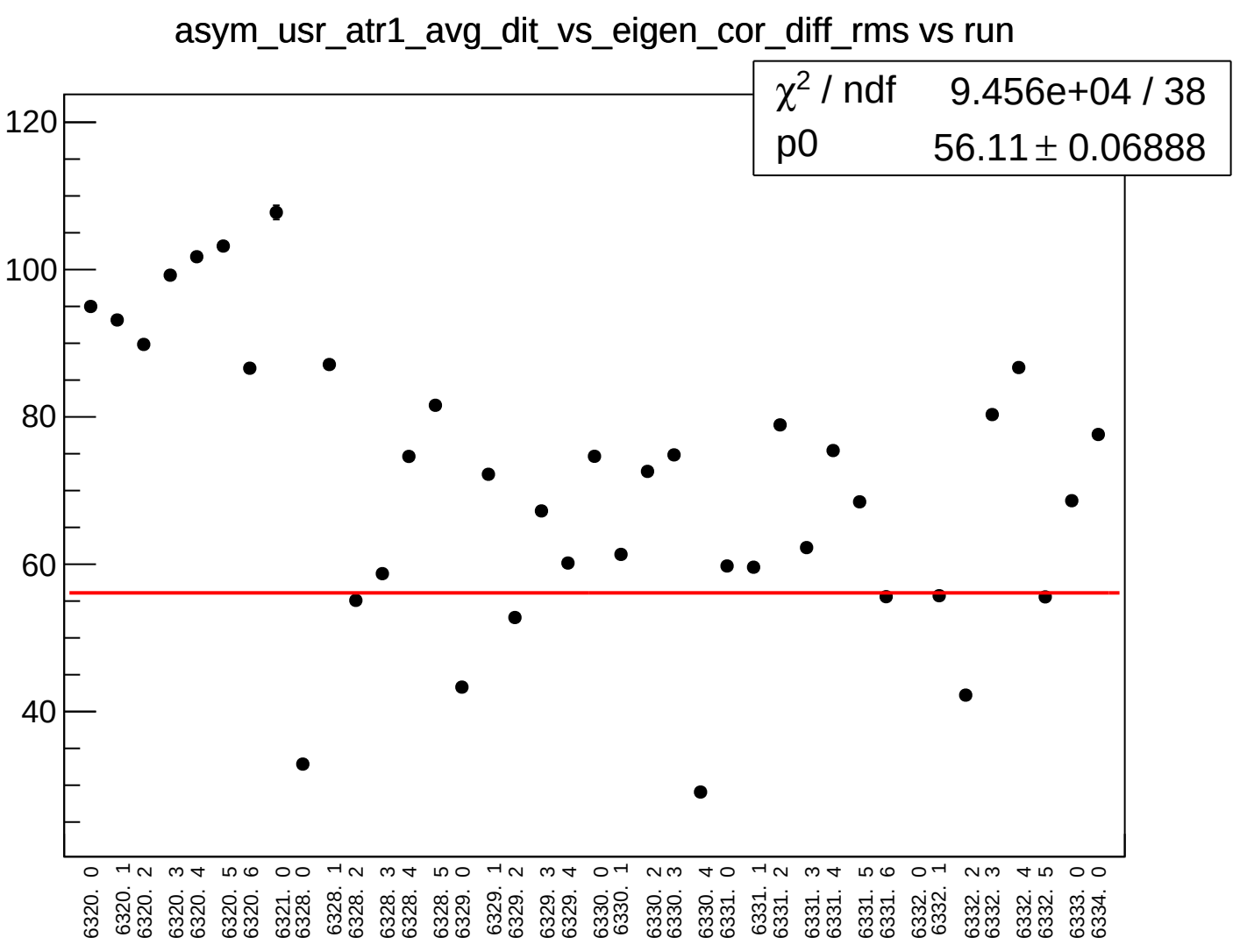

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.21 / 38
p0 −5.554e−14 ± 8.223e−14
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 25.99
Std Dev 8.101
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.2779
Std Dev 0.9634
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

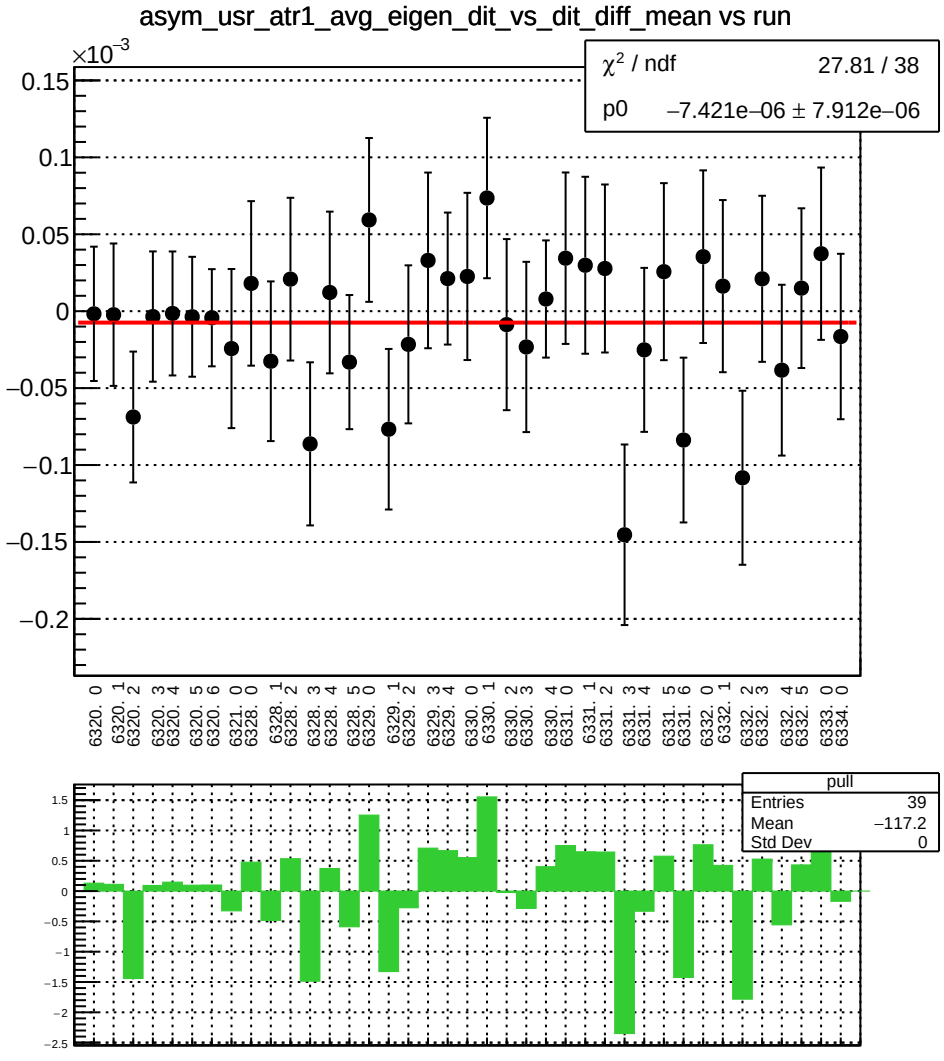

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.49e+05 / 38
p0 2.659e−11 ± 5.814e−14
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

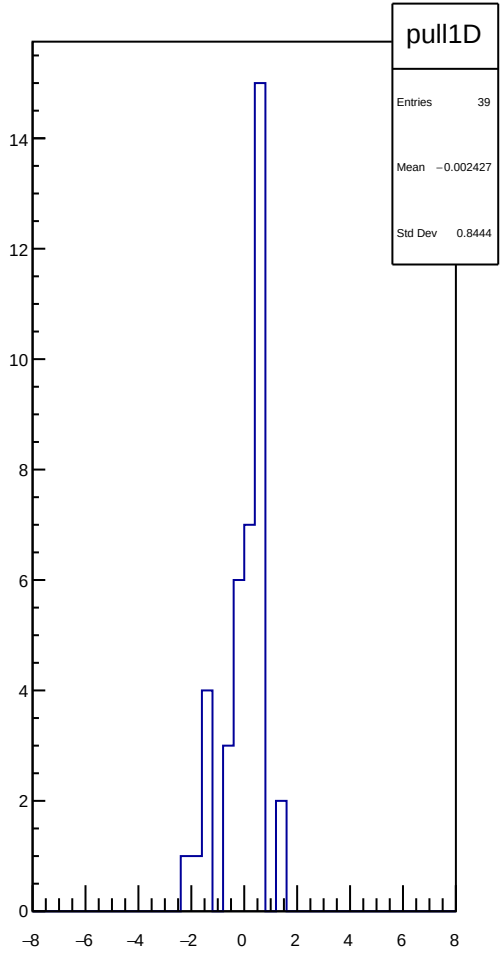

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.44 / 38
p0 0.02061± 0.09742
pull
Entries 39
Mean 16.86
Std Dev 21.22
pull1D
Entries 39
Mean 0.1107
Std Dev 0.9194

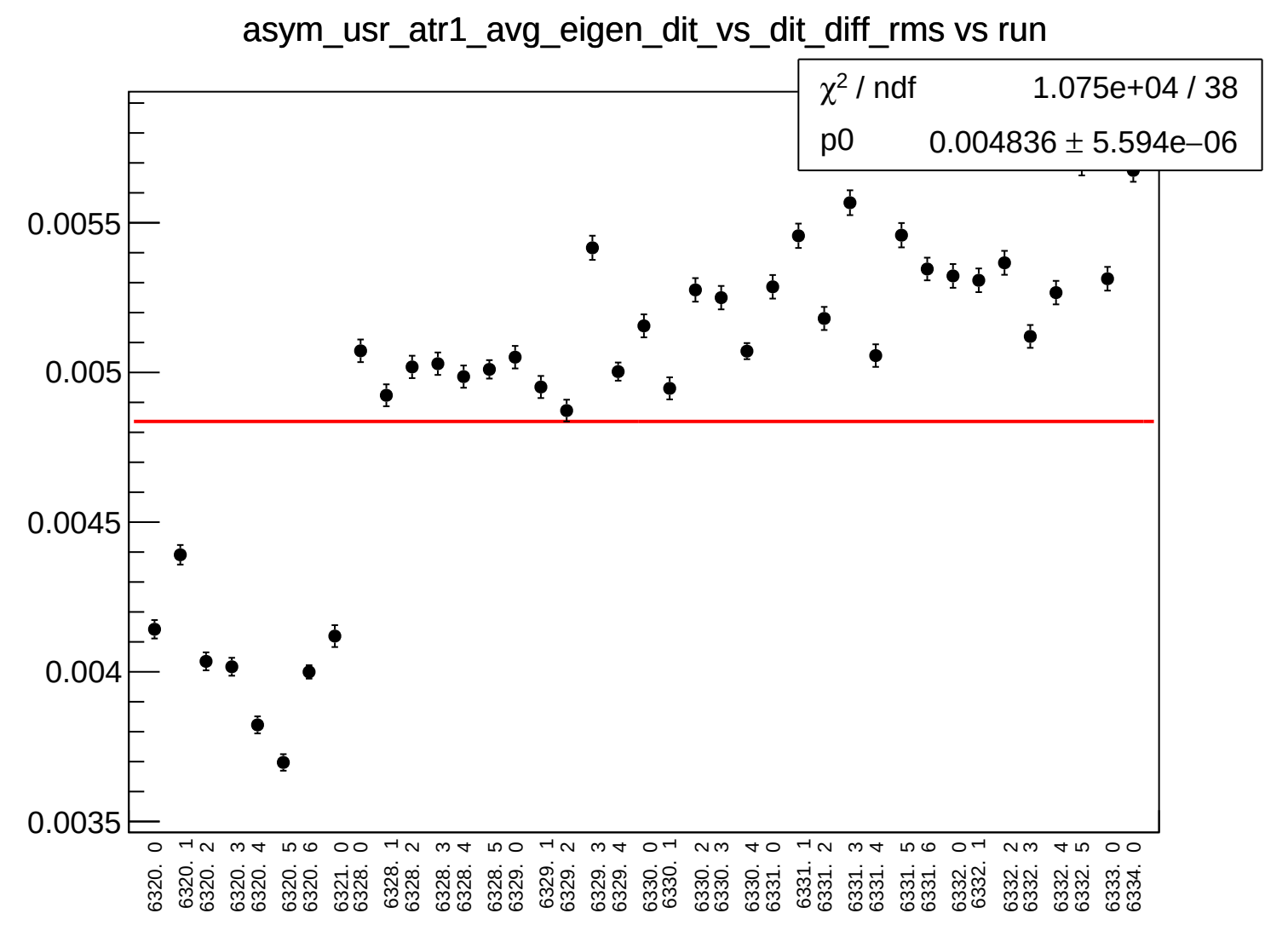

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.456e+04 / 38
p0 56.11 ± 0.06888
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

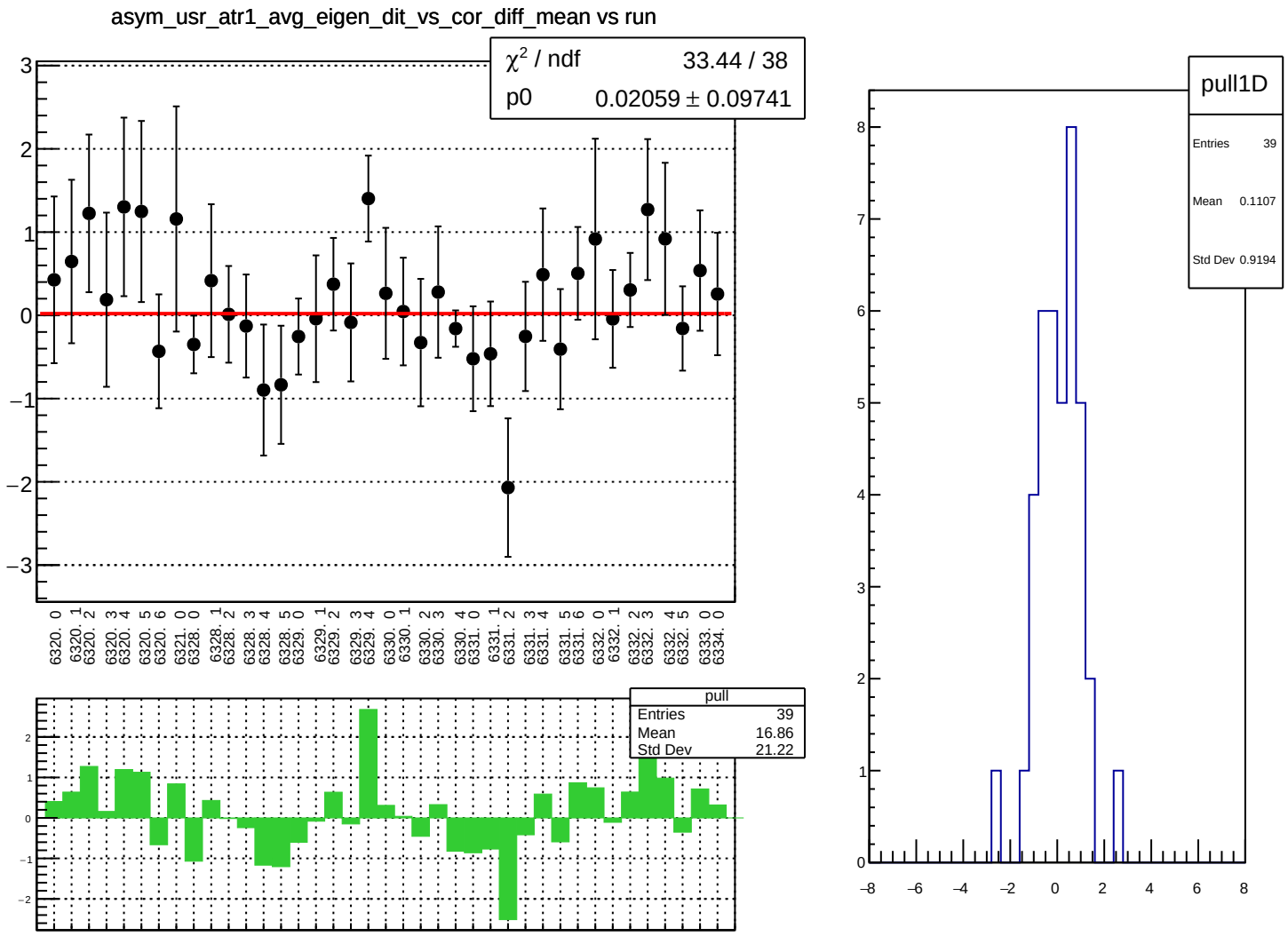

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.44 / 38
p0 0.02061 ± 0.09742
pull
Entries 39
Mean 16.86
Std Dev 21.22
pull1D
Entries 39
Mean 0.1107
Std Dev 0.9194

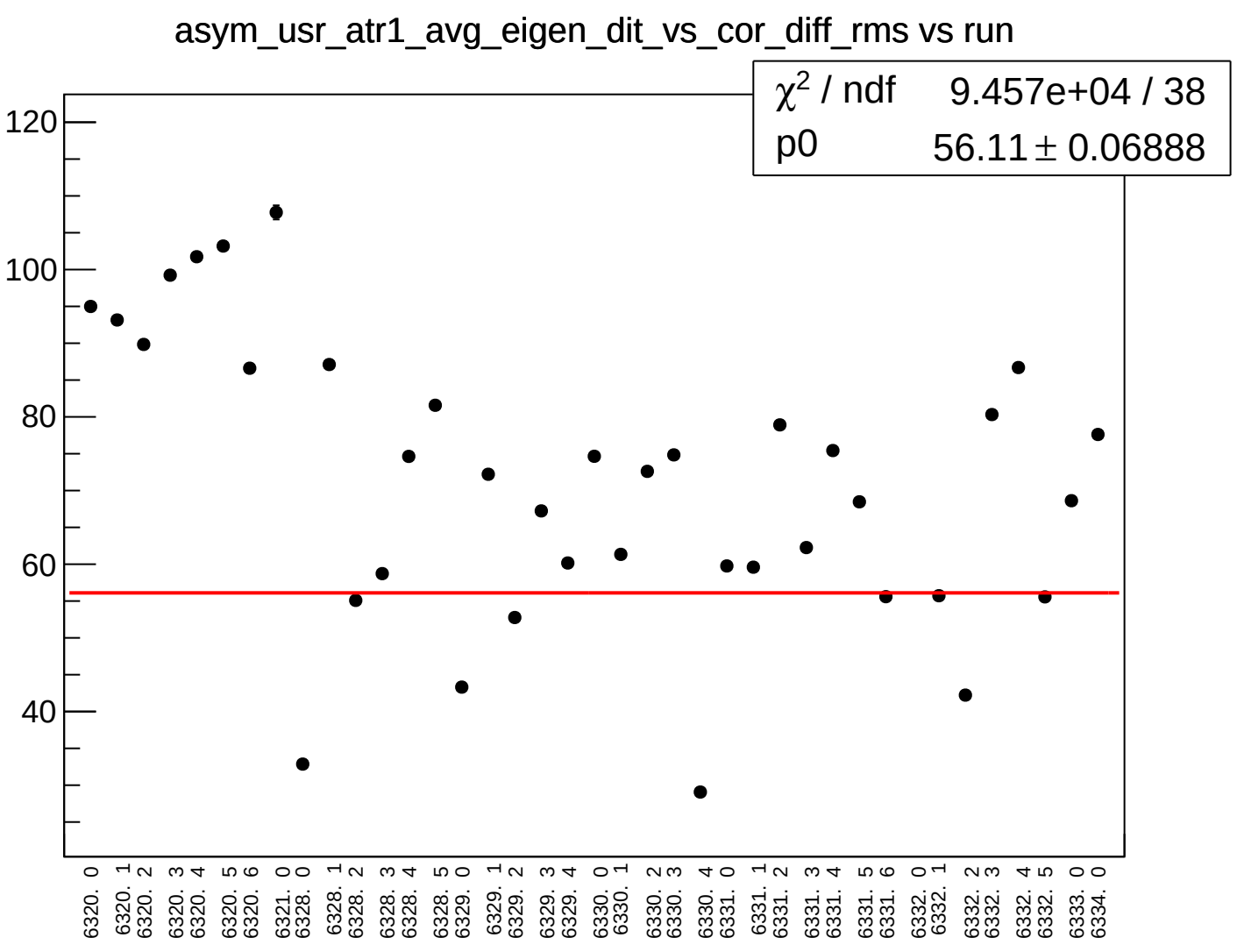

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.456e+04 / 38
p0 56.11 ± 0.06888
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

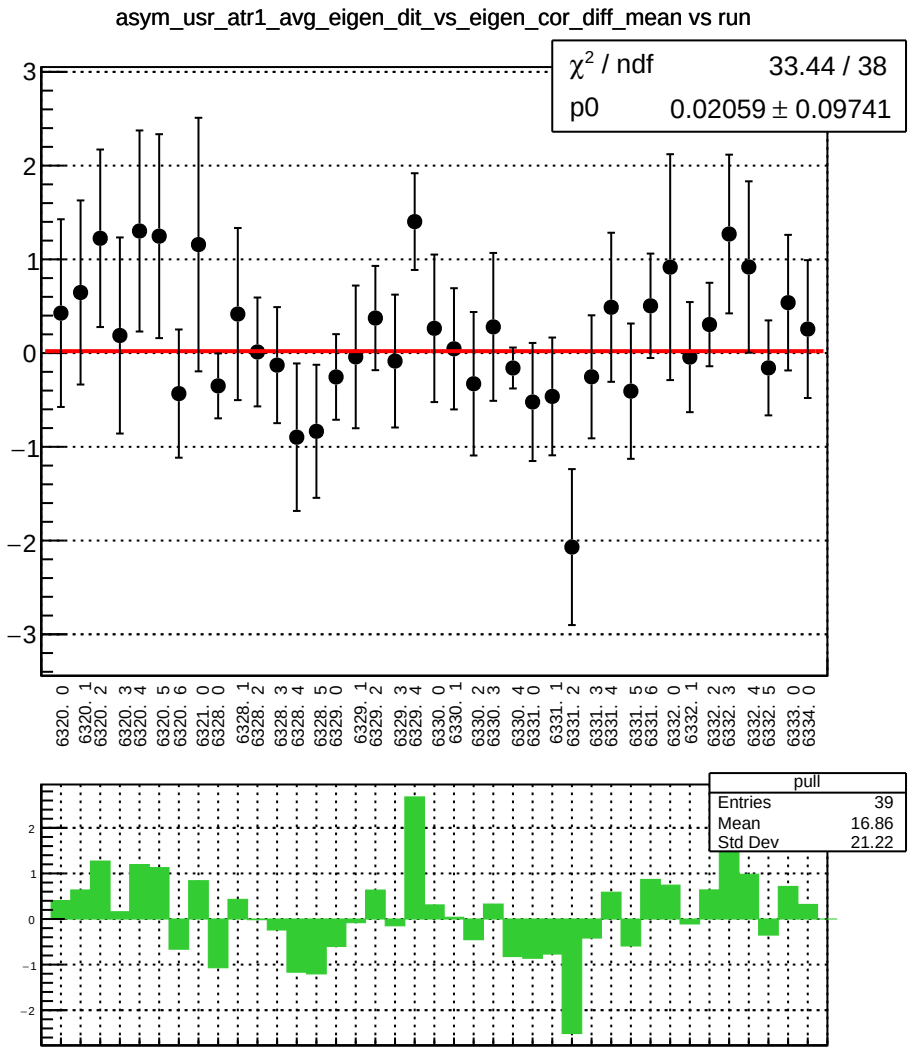

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.81 / 38
p0 −7.421e−06 ± 7.912e−06
pull
Entries 39
Mean −117.2
Std Dev 0

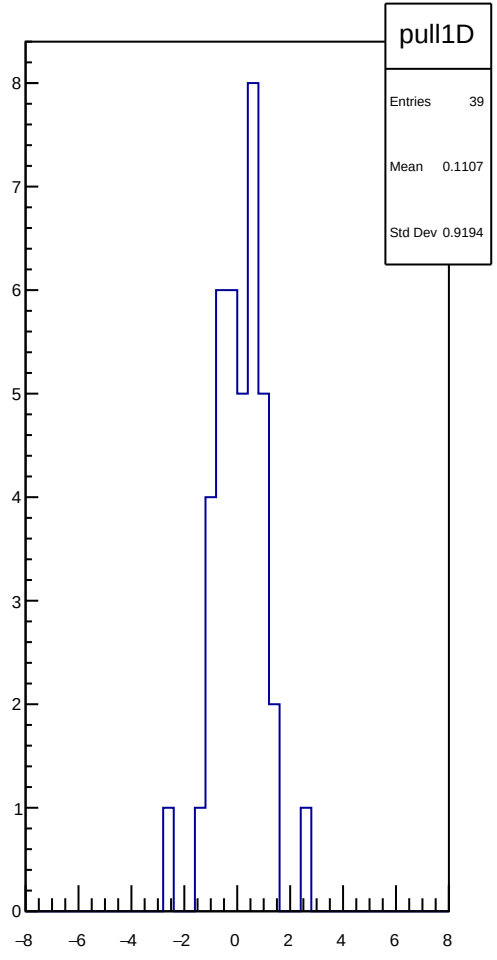

pull1D
Entries 39
Mean −0.002427
Std Dev 0.8444

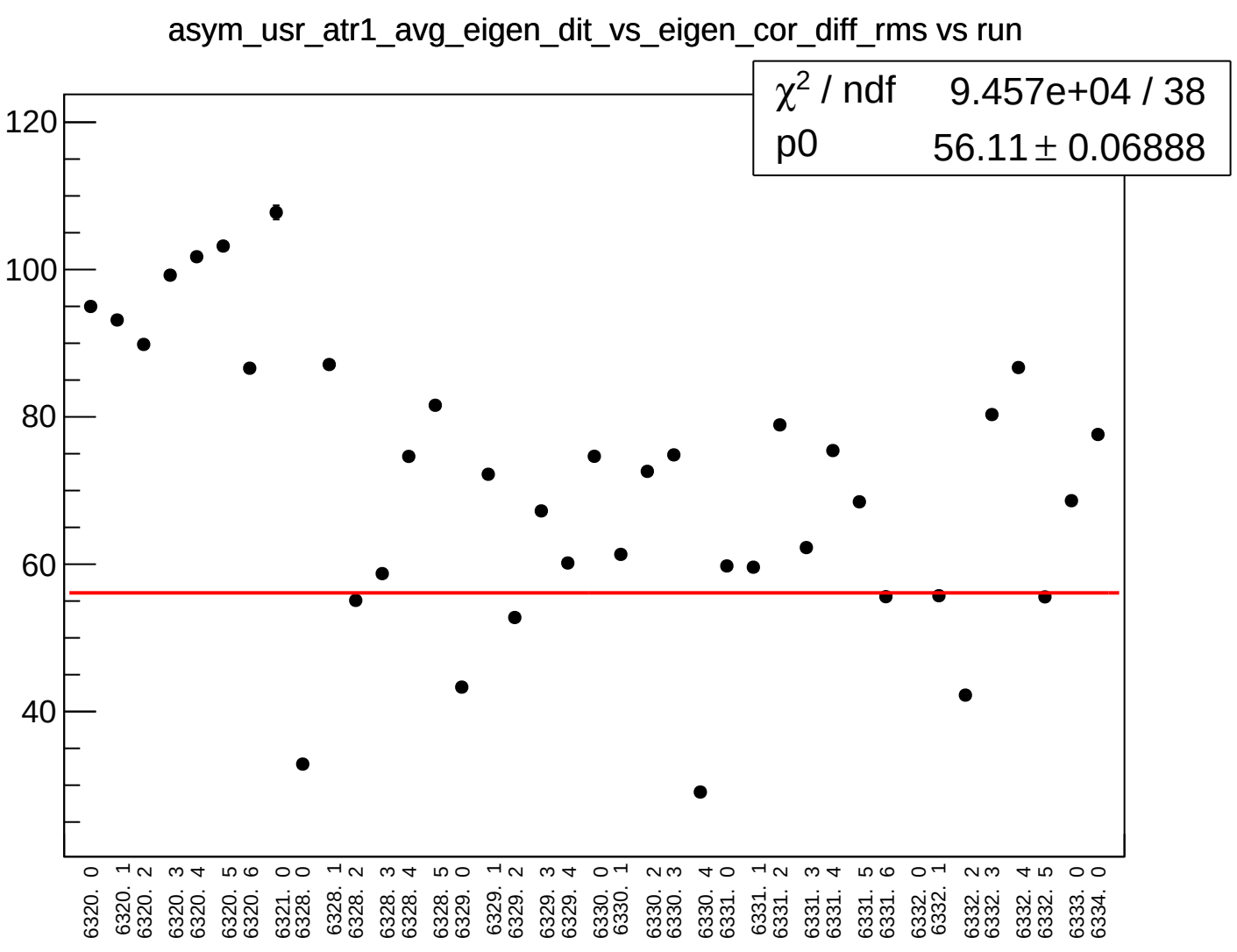

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+04 / 38
p0 0.004836 ± 5.594e−06
0.0055
0.005
0.0045
0.004
0.0035
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

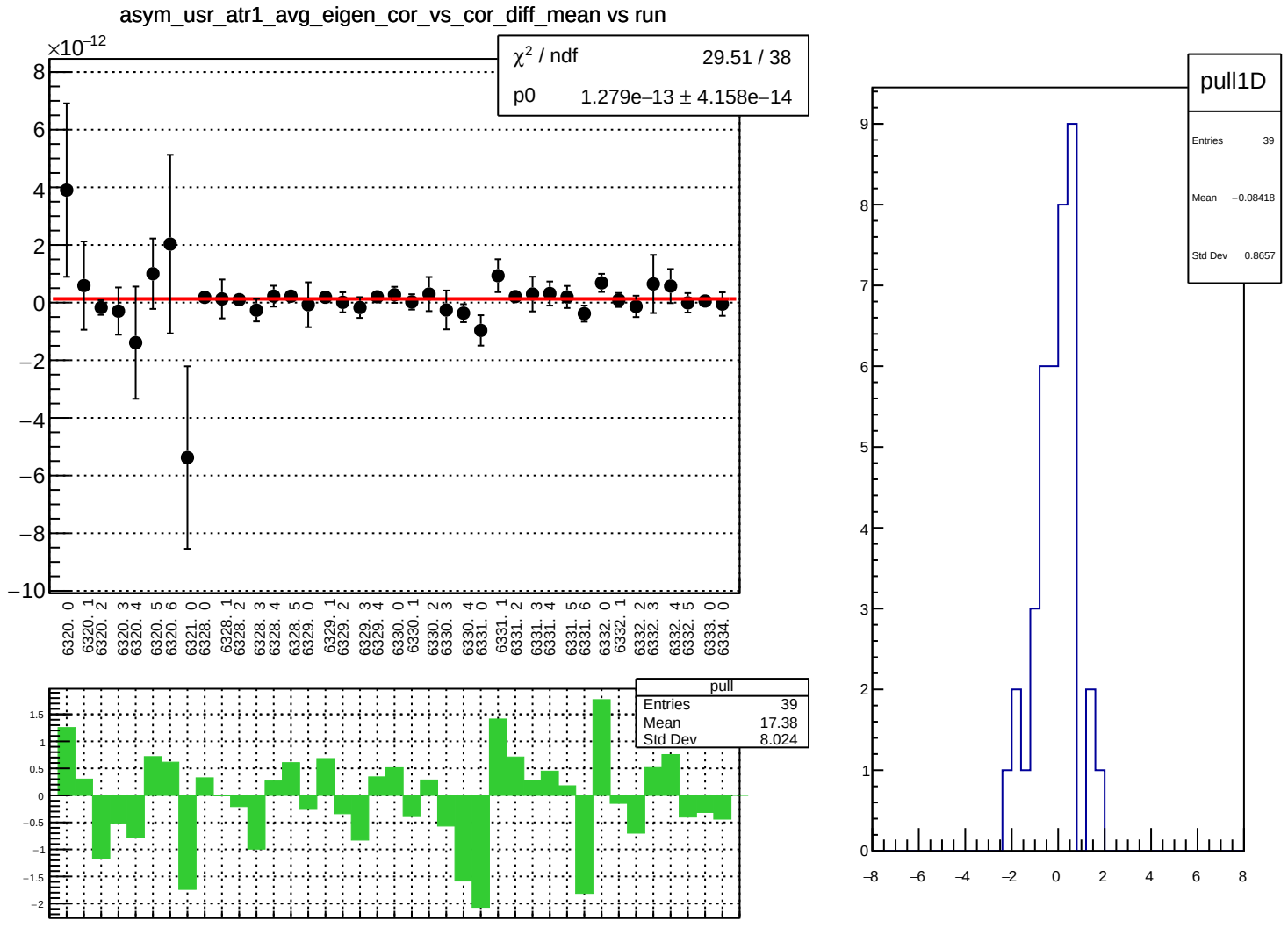

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.44 / 38
p0 0.02059 ± 0.09741
pull
Entries 39
Mean 16.86
Std Dev 21.22
pull1D
Entries 39
Mean 0.1107
Std Dev 0.9194

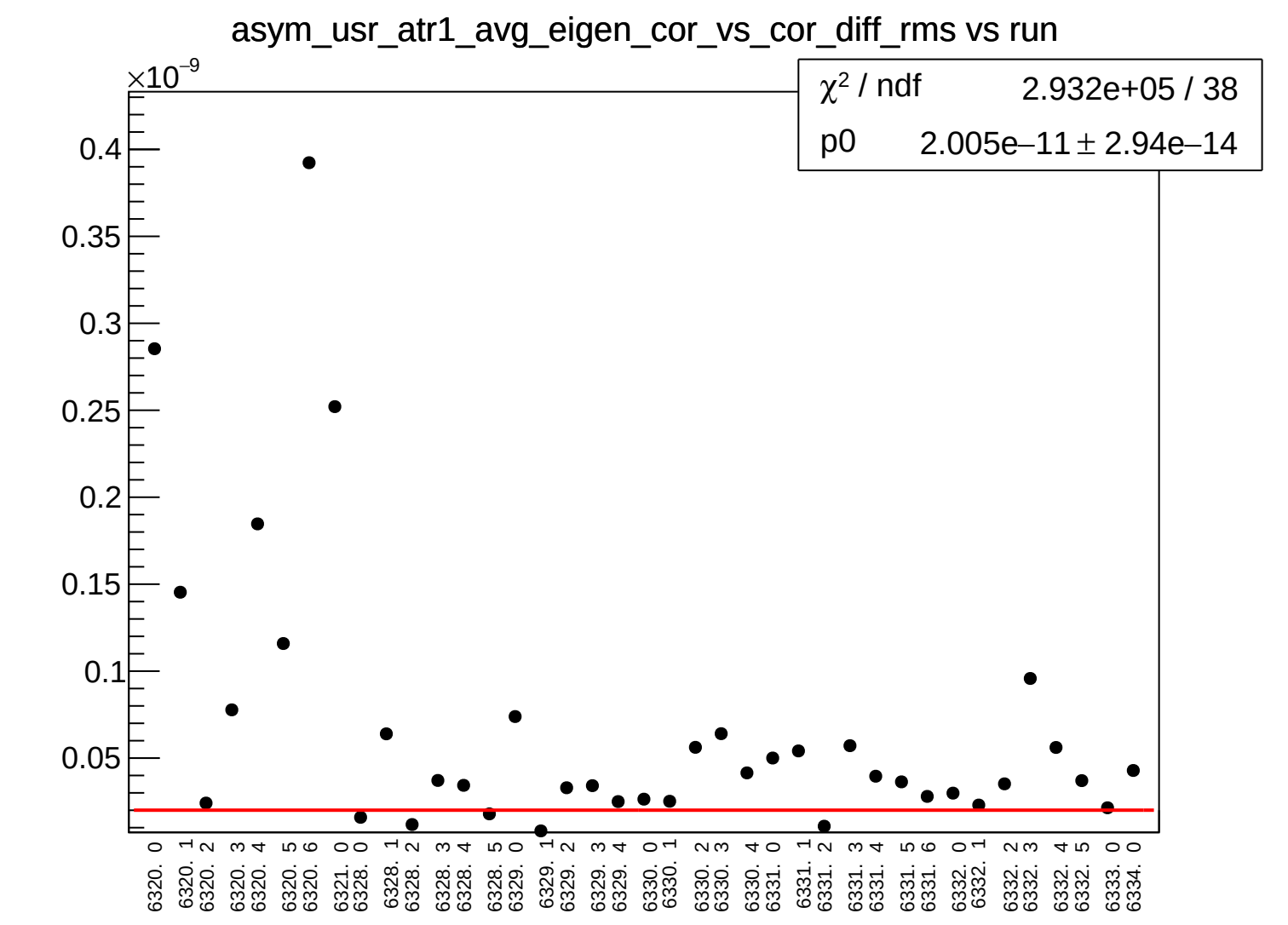

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.457e+04 / 38
p0 56.11 ± 0.06888
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

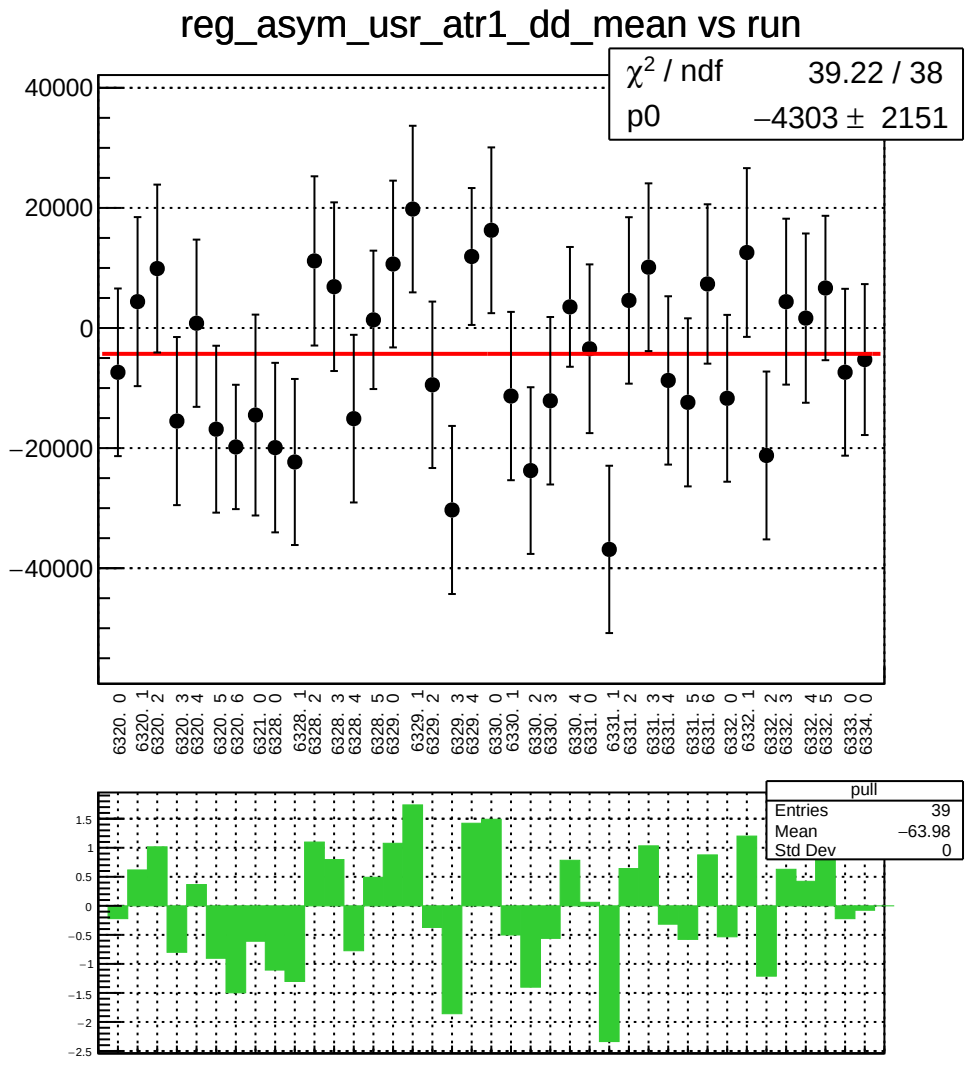

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.44 / 38
p0 0.02059 ± 0.09741
pull
Entries 39
Mean 16.86
Std Dev 21.22

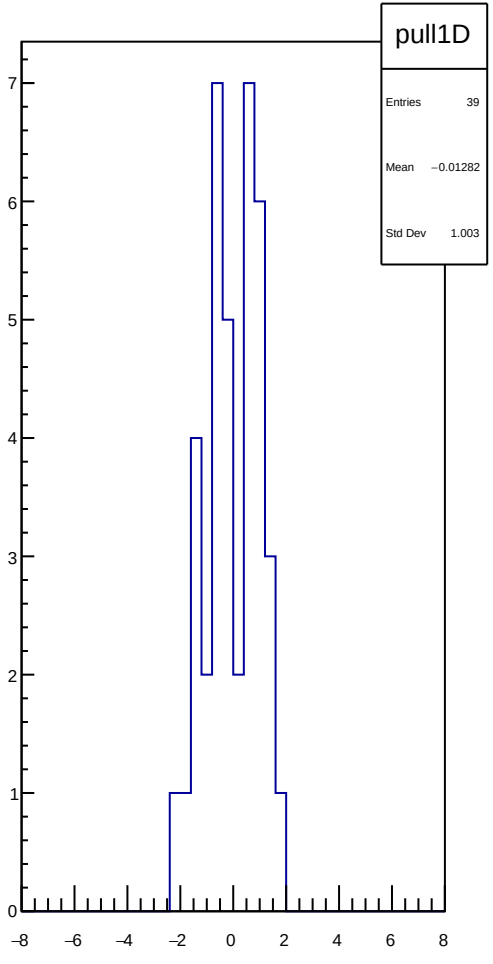

pull1D
Entries 39
Mean 0.1107
Std Dev 0.9194

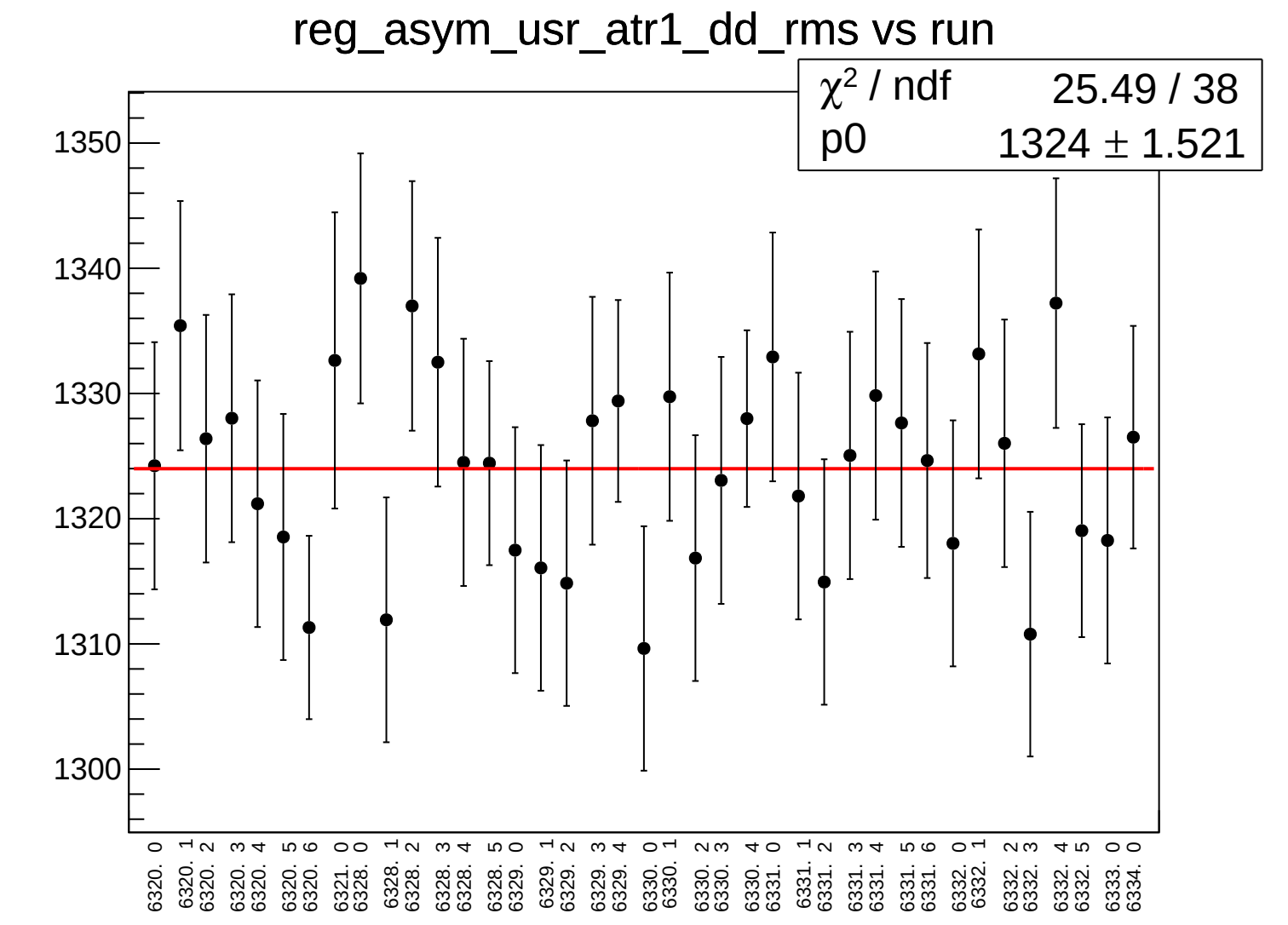

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.457e+04 / 38
p0 56.11 ± 0.06888
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

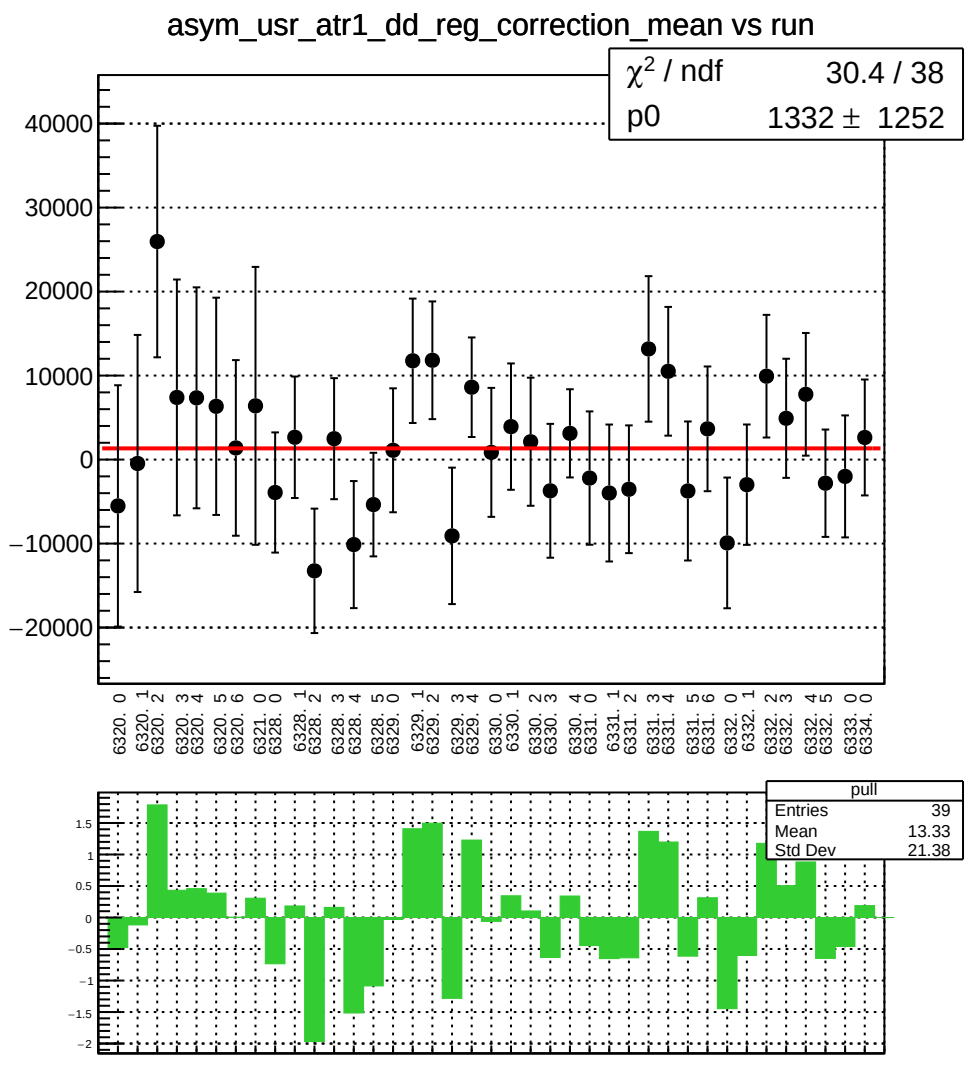

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 29.51 / 38
p0 1.279e−13 ± 4.158e−14
8
6
4
2
0
−2
−4
−6
−8
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 17.38
Std Dev 8.024
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.08418
Std Dev 0.8657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

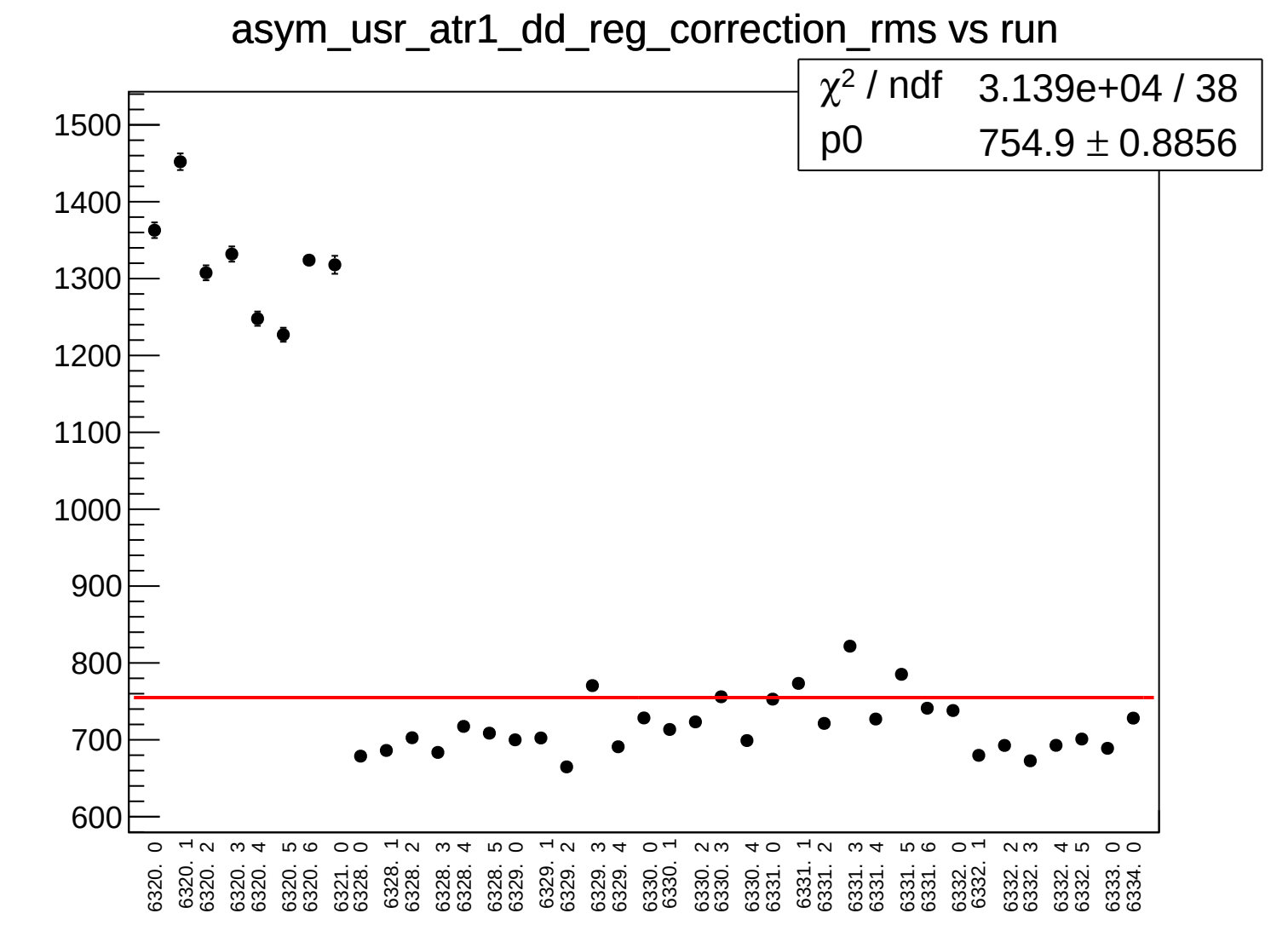

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.932e+05 / 38
p0 2.005e−11 ± 2.94e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

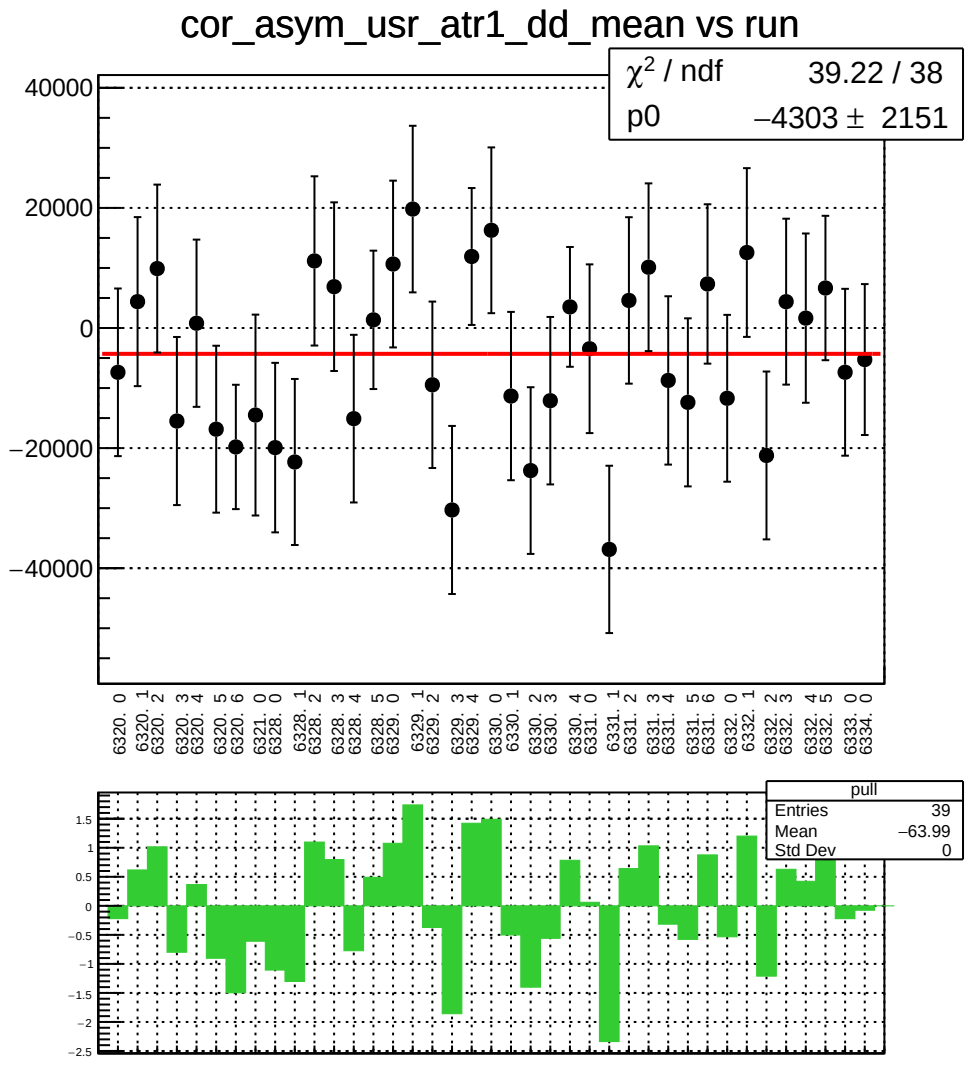

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 39.22 / 38
p0 −4303 ± 2151
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

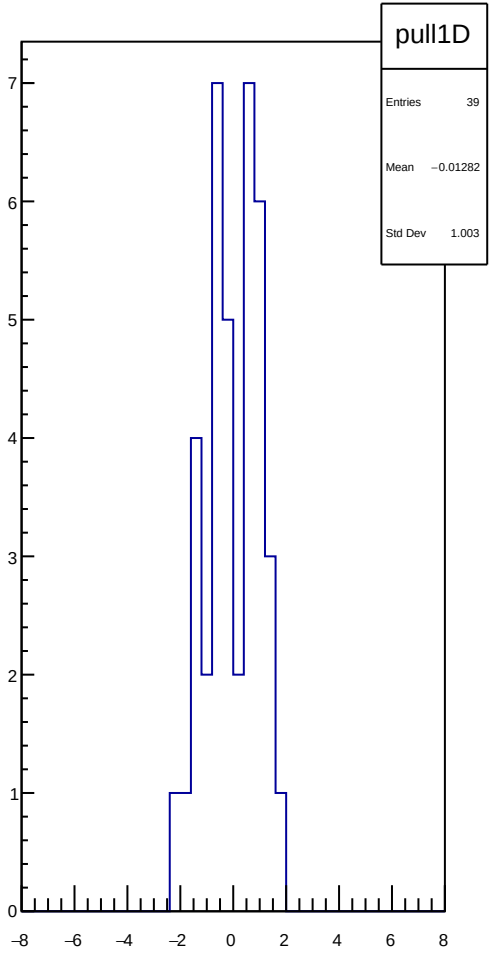

pull1D
Entries 39
Mean −0.01282
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

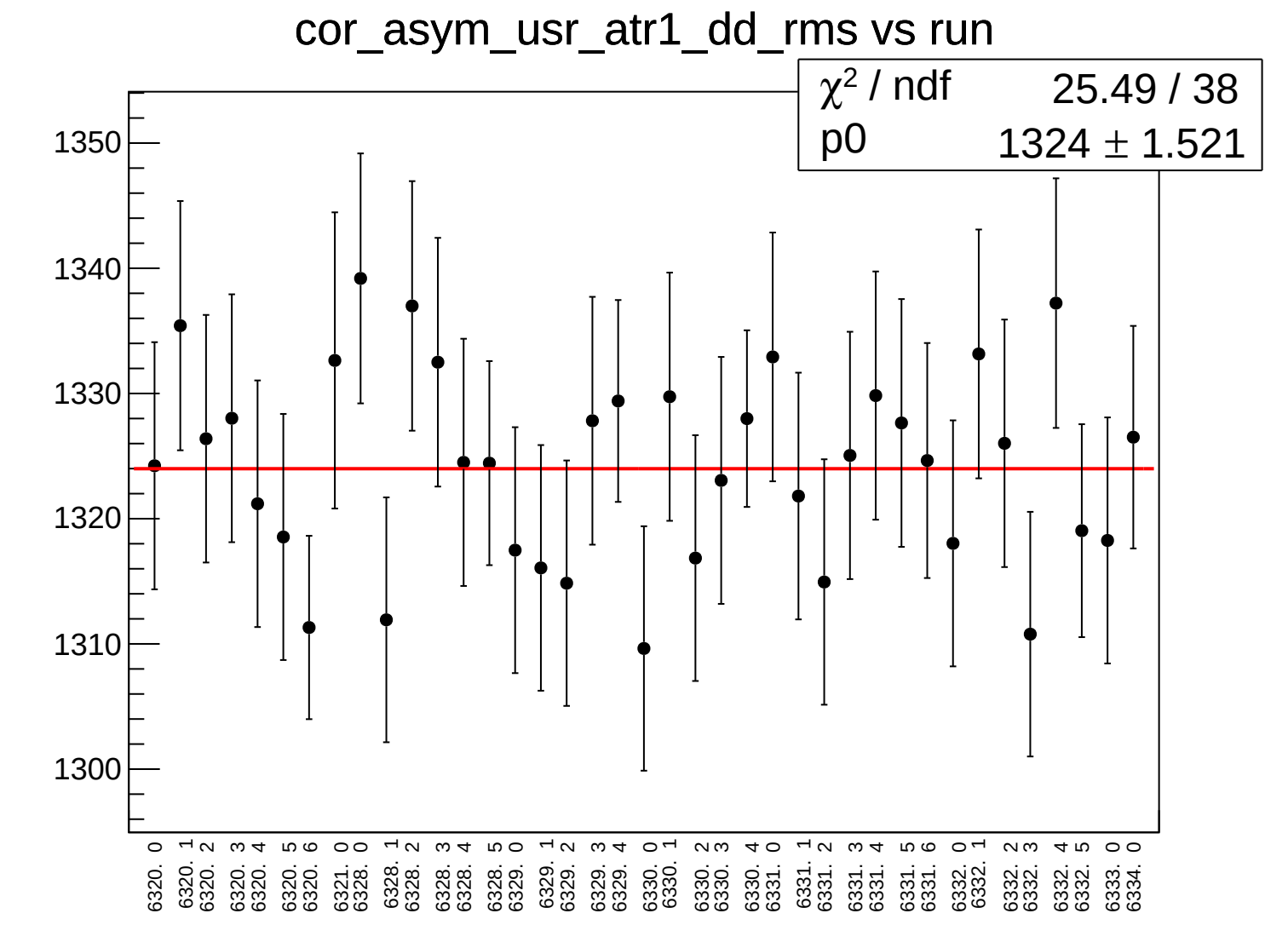

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 25.49 / 38
p0 1324 ± 1.521
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

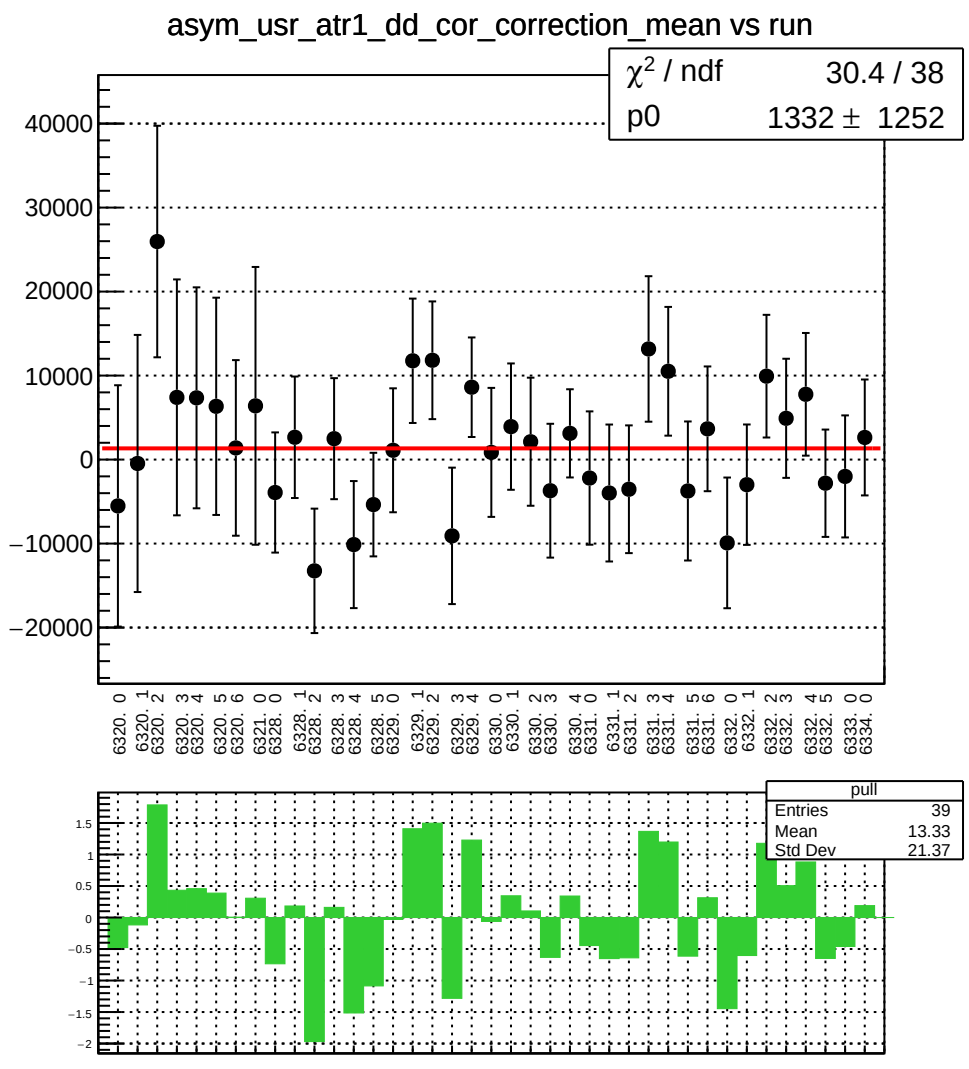

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 30.4 / 38
p0 1332 ± 1252
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.33
Std Dev 21.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02207
Std Dev 0.8826
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

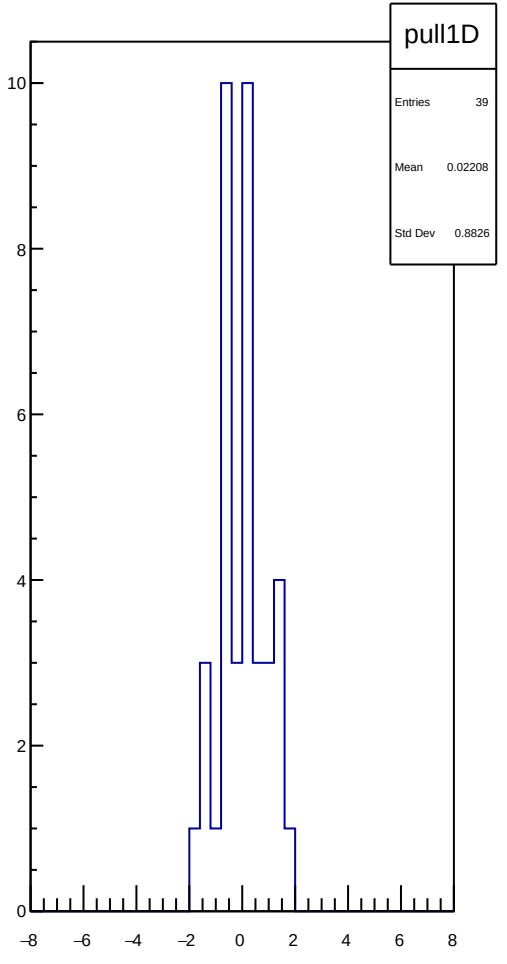

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 3.139e+04 / 38
p0 754.9 ± 0.8856
1500
1400
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

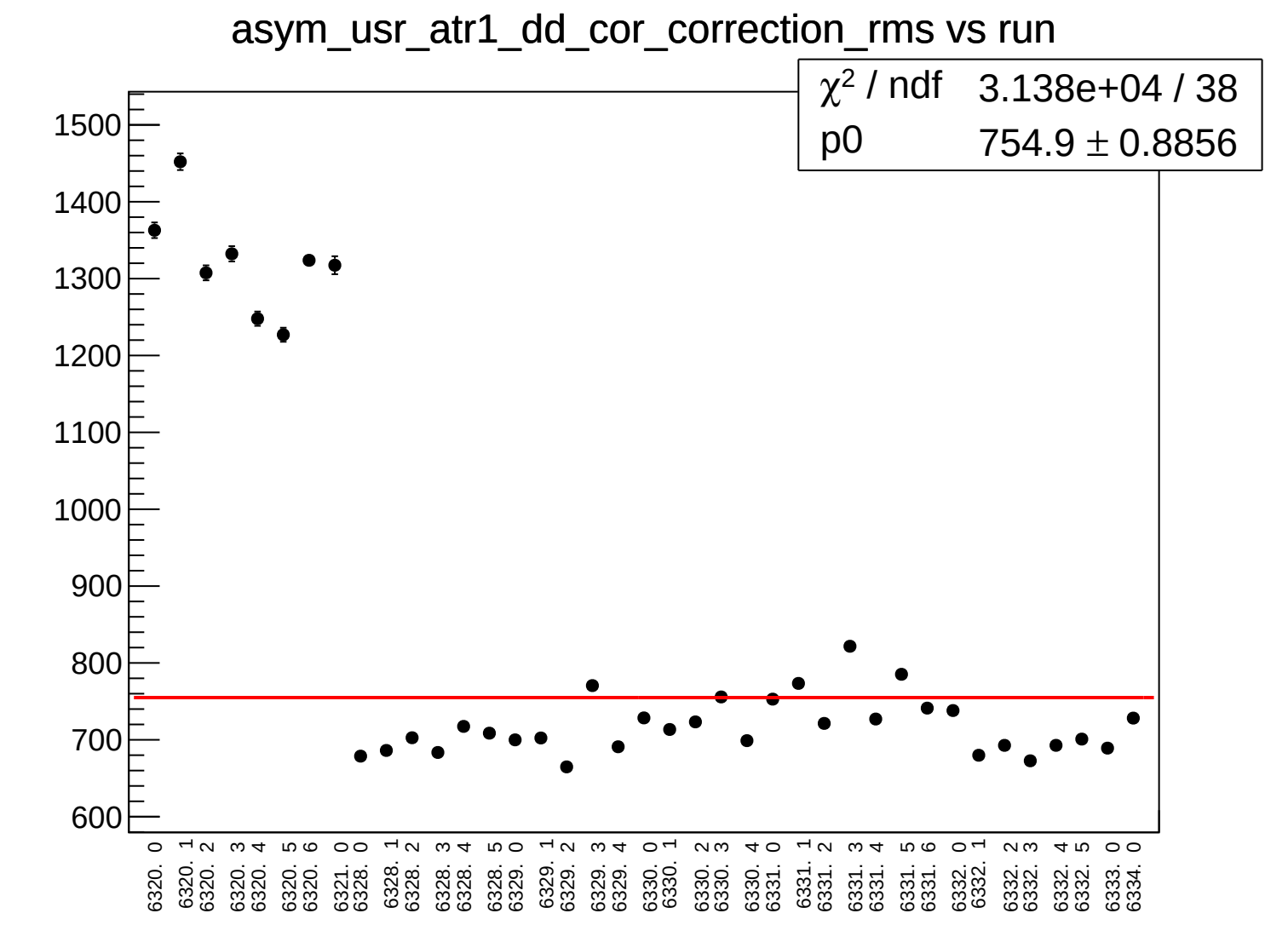

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 39.22 / 38
p0 −4303 ± 2151
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

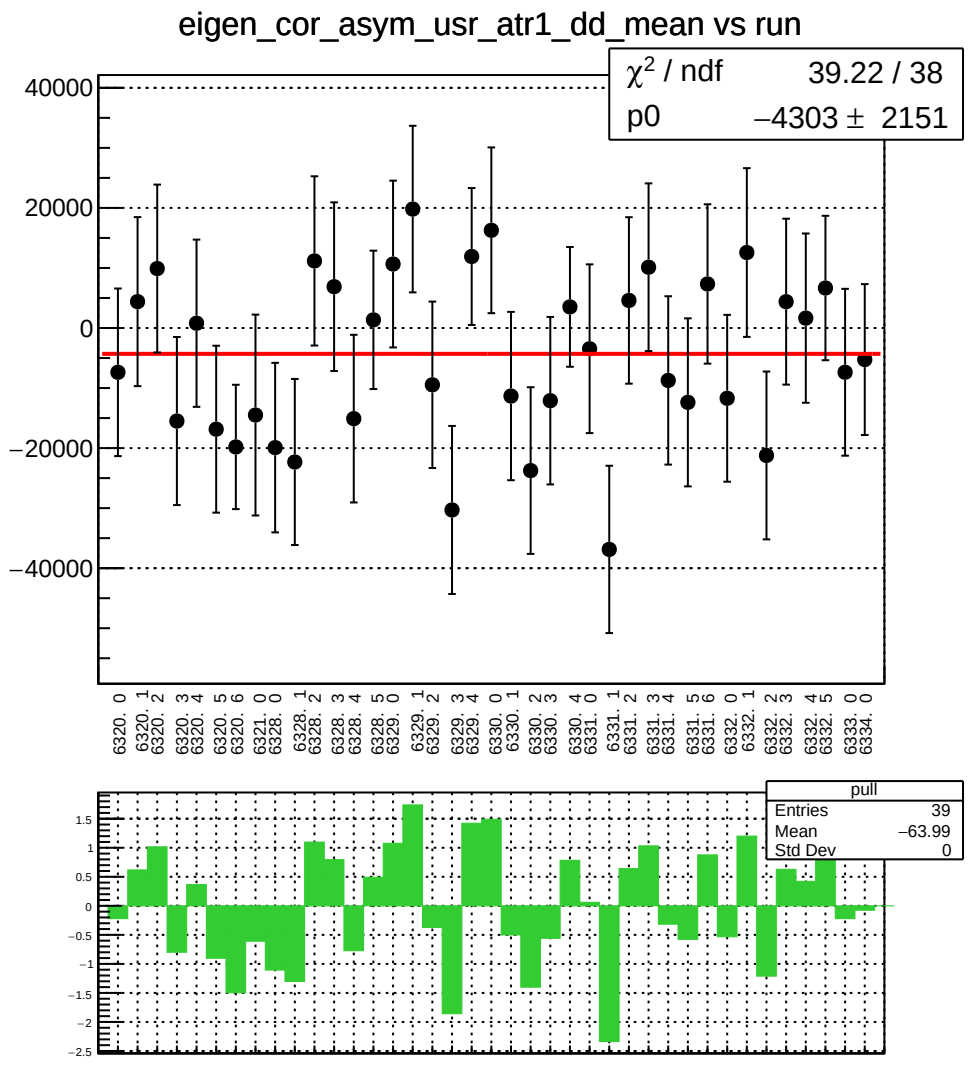

pull1D
Entries 39
Mean −0.01282
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

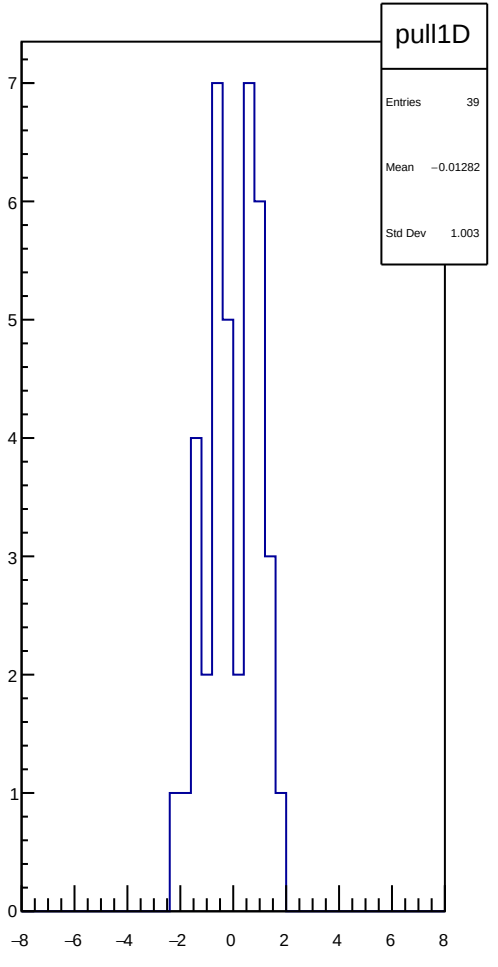

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 25.49 / 38
p0 1324 ± 1.521
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

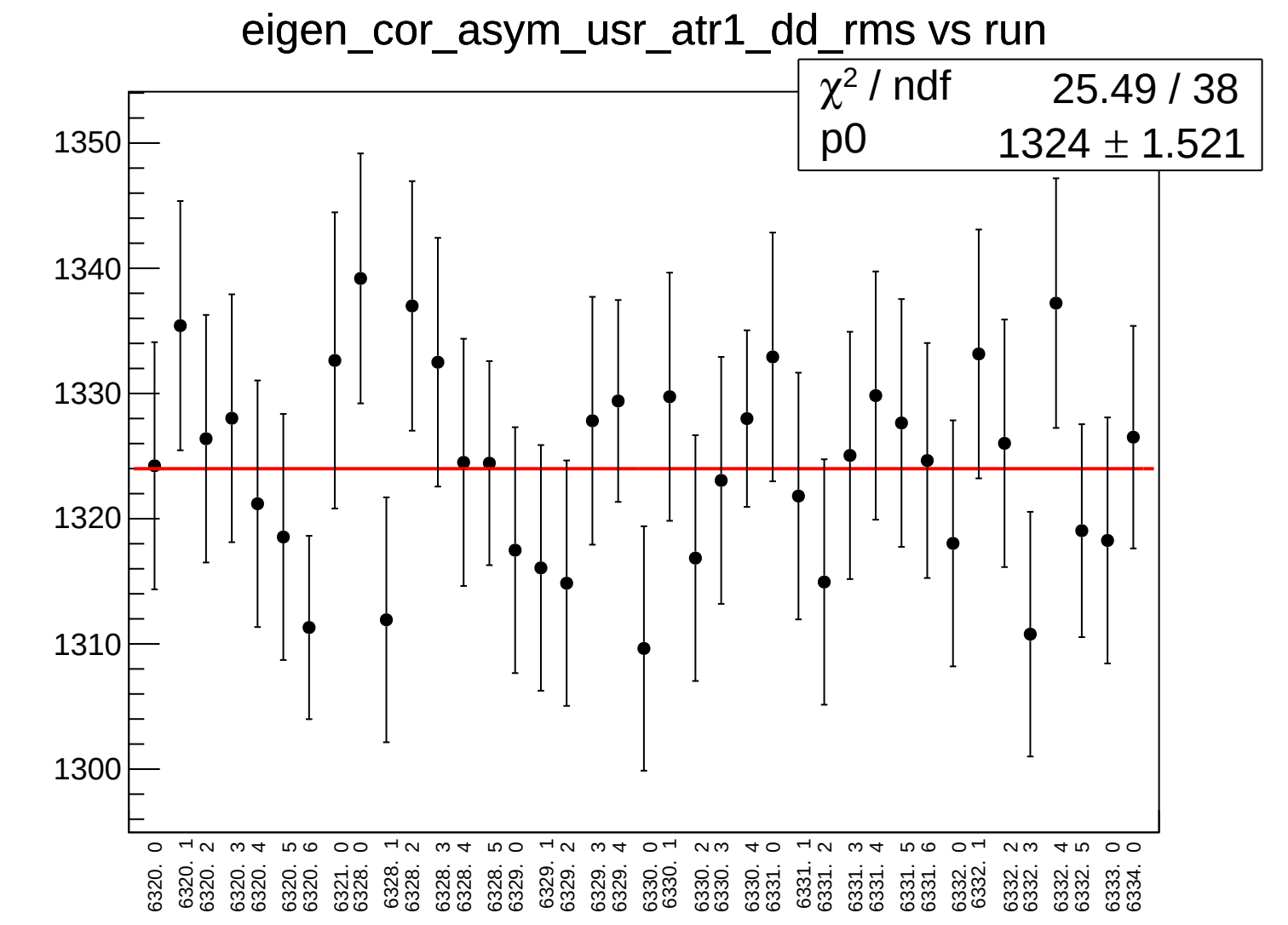

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 30.4 / 38
p0 1332 ± 1252
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.33
Std Dev 21.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2

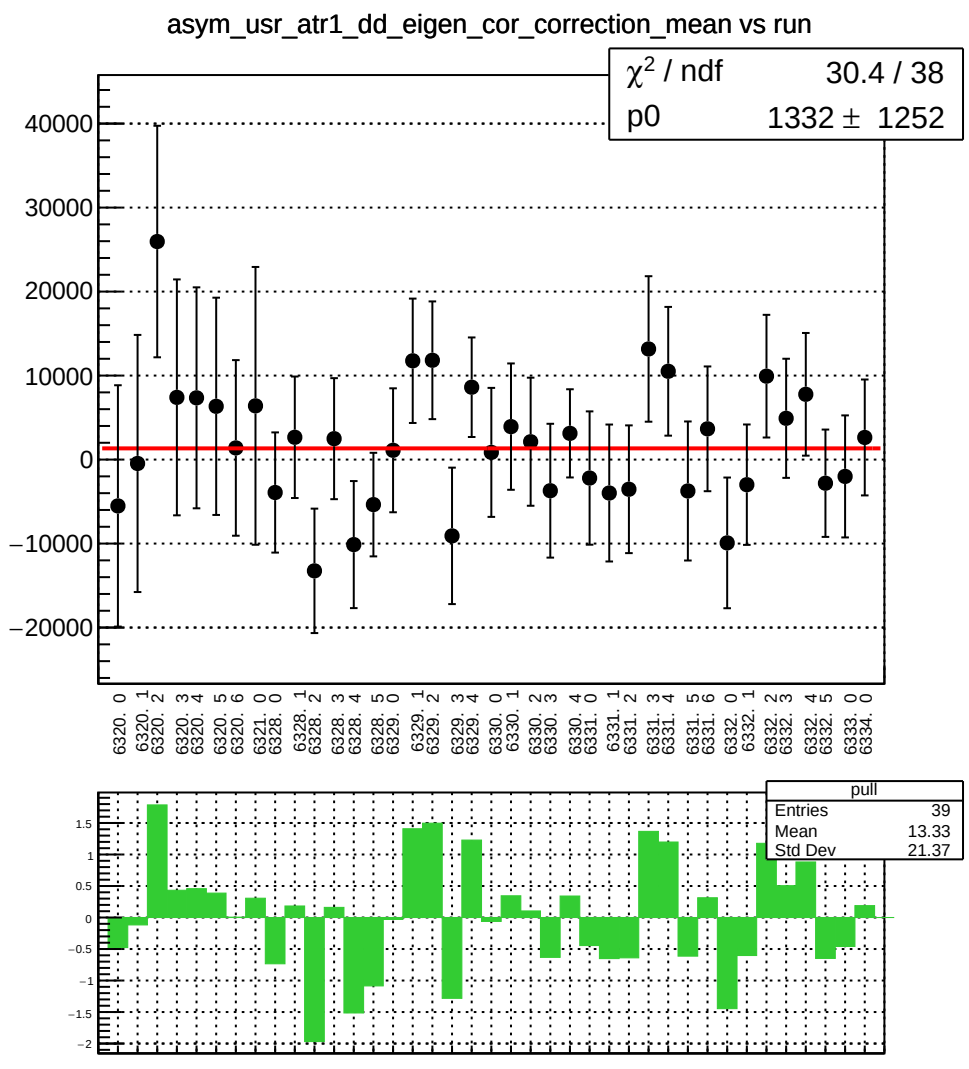

pull1D
Entries 39
Mean 0.02208
Std Dev 0.8826
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

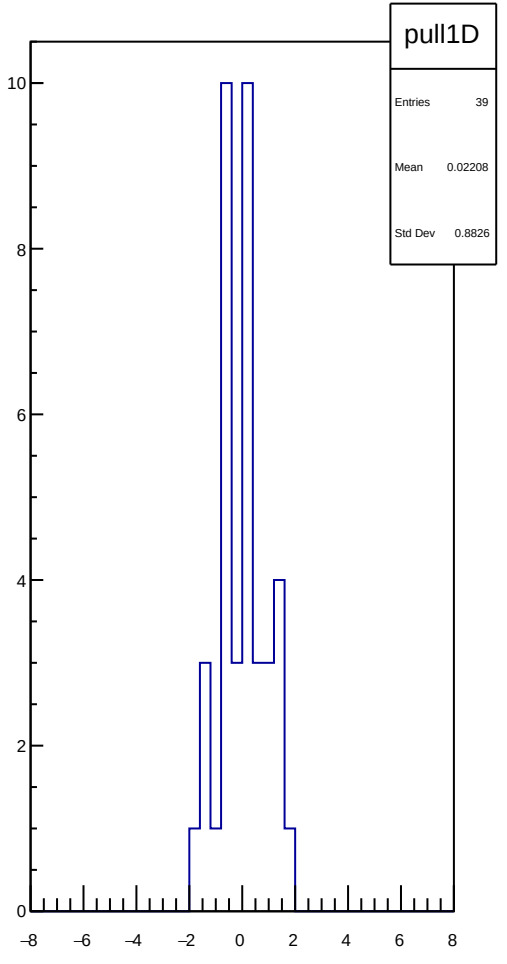

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 3.138e+04 / 38
p0 754.9 ± 0.8856
1500
1400
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

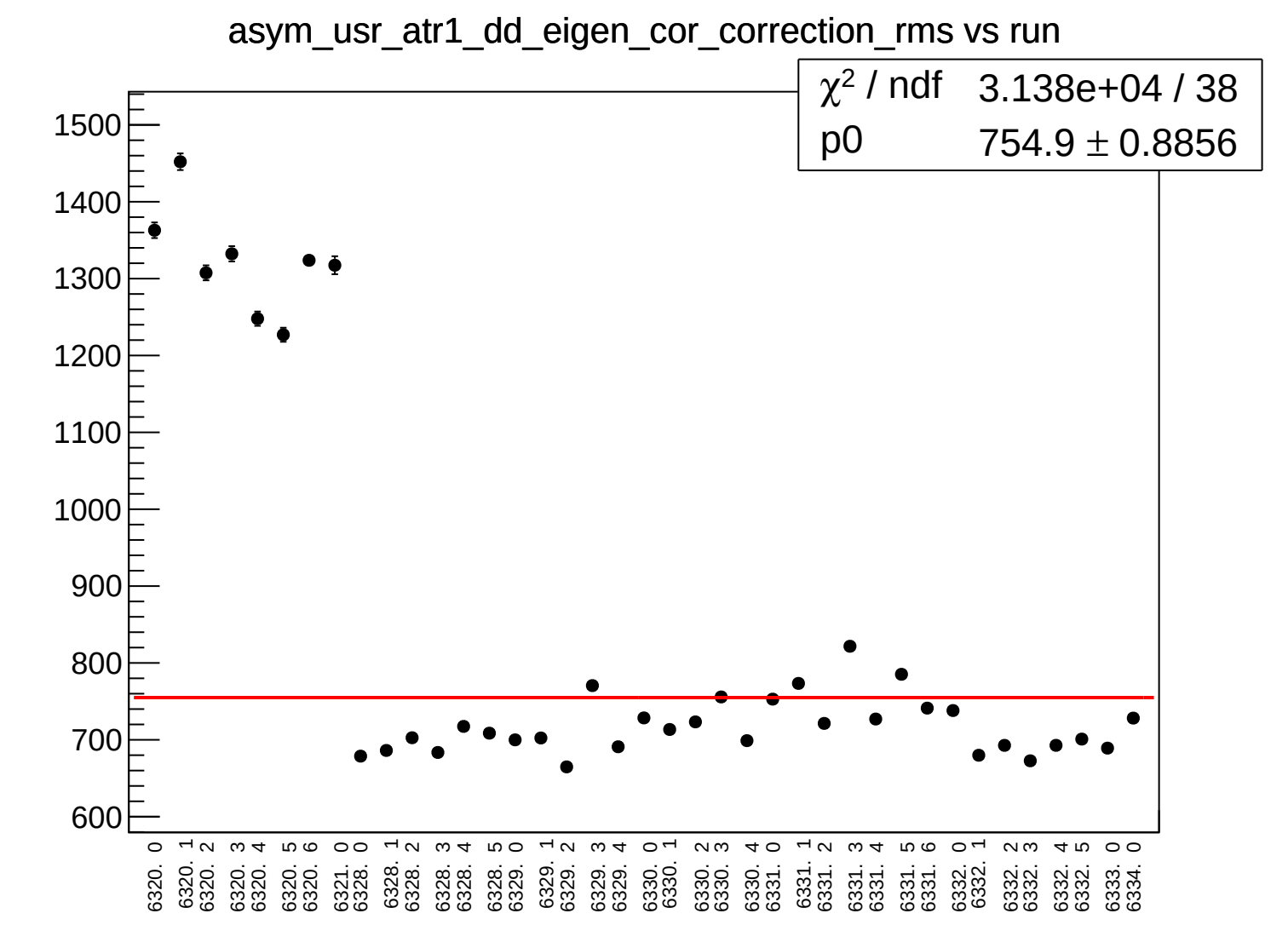

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 39.22 / 38
p0 −4303 ± 2151
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

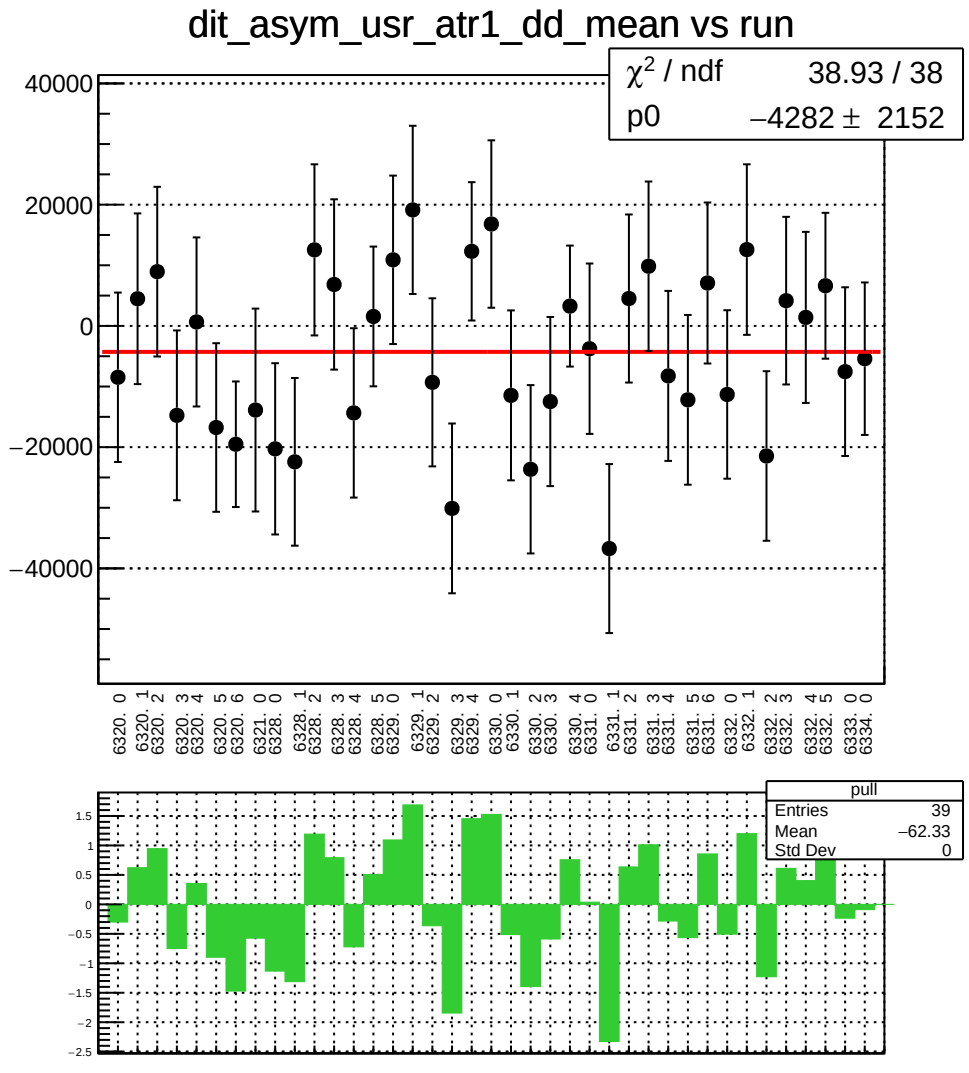

pull1D
Entries 39
Mean −0.01282
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

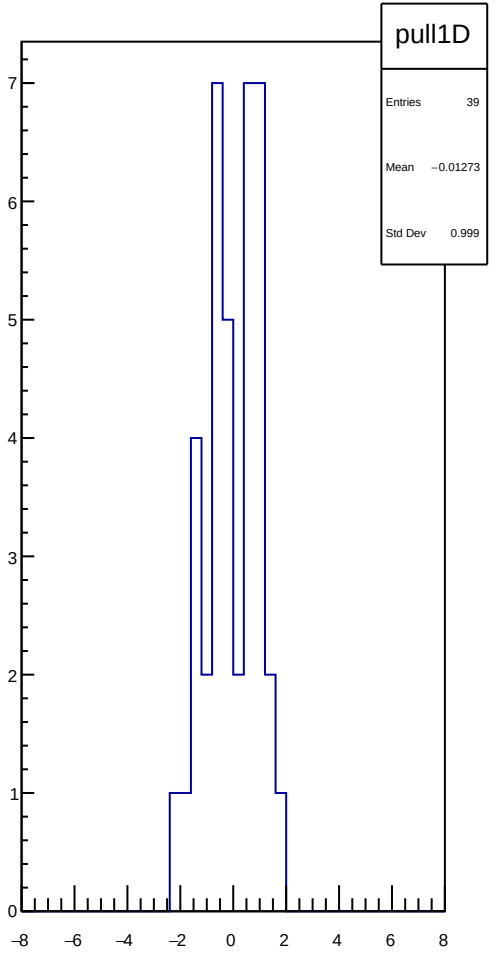

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 25.49 / 38
p0 1324 ± 1.521
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

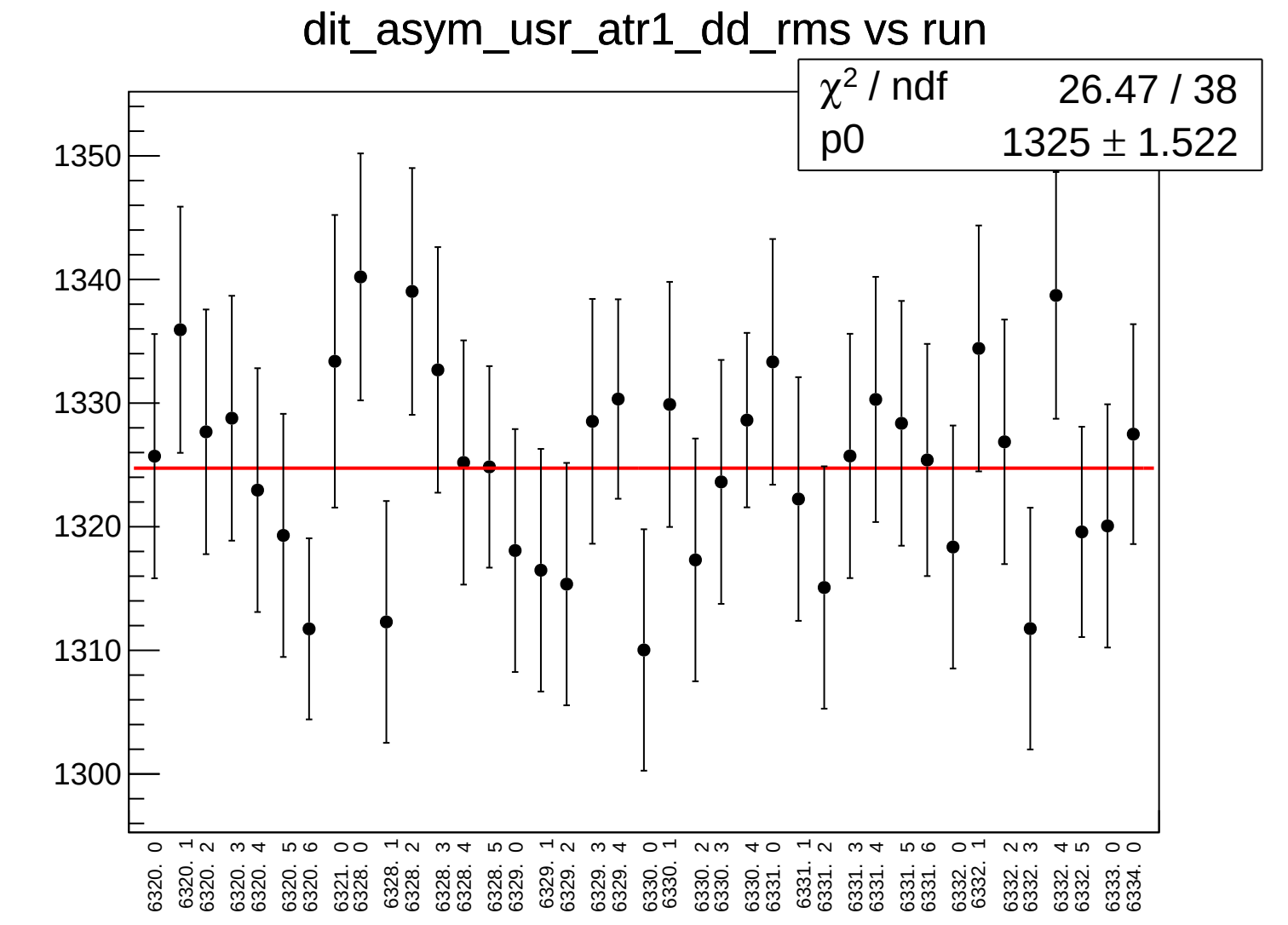

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.4 / 38
p0 1332 ± 1252
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.33
Std Dev 21.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2

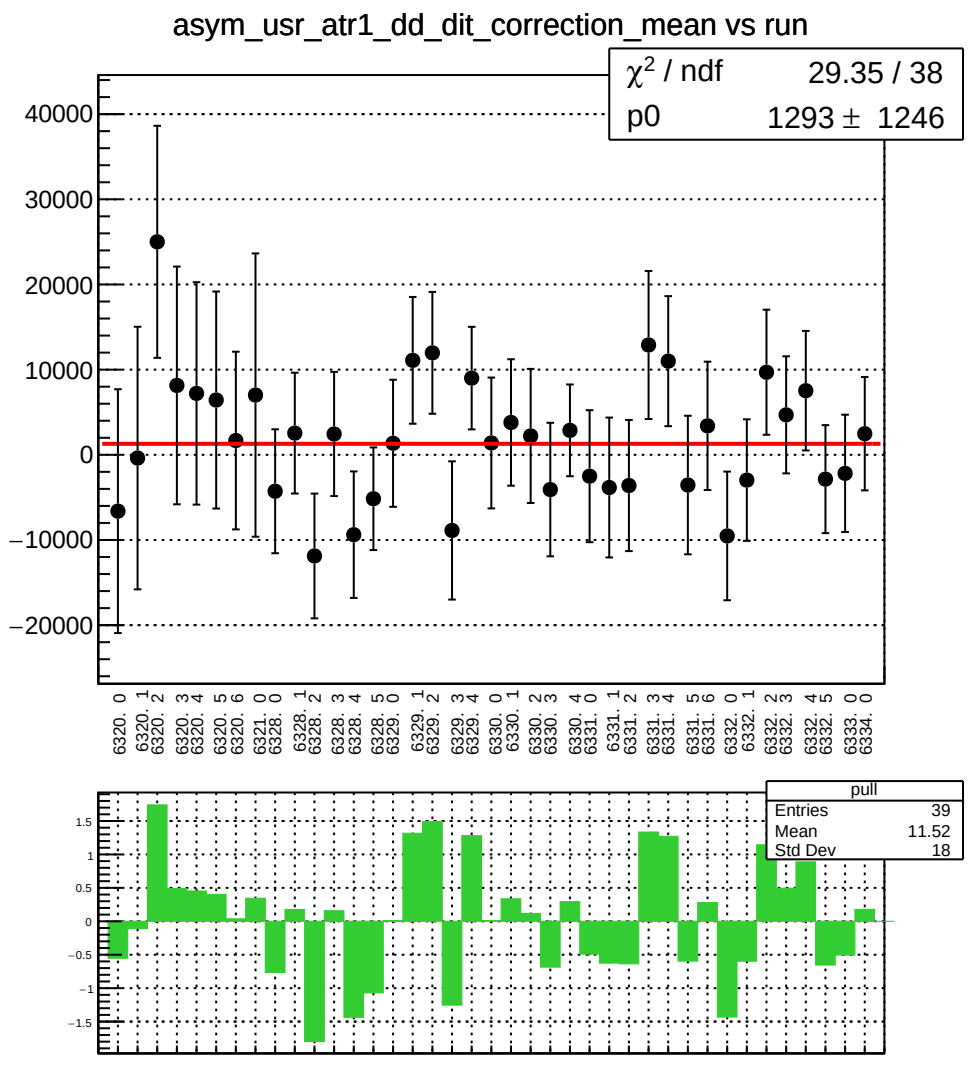

pull1D
Entries 39
Mean 0.02208
Std Dev 0.8826
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

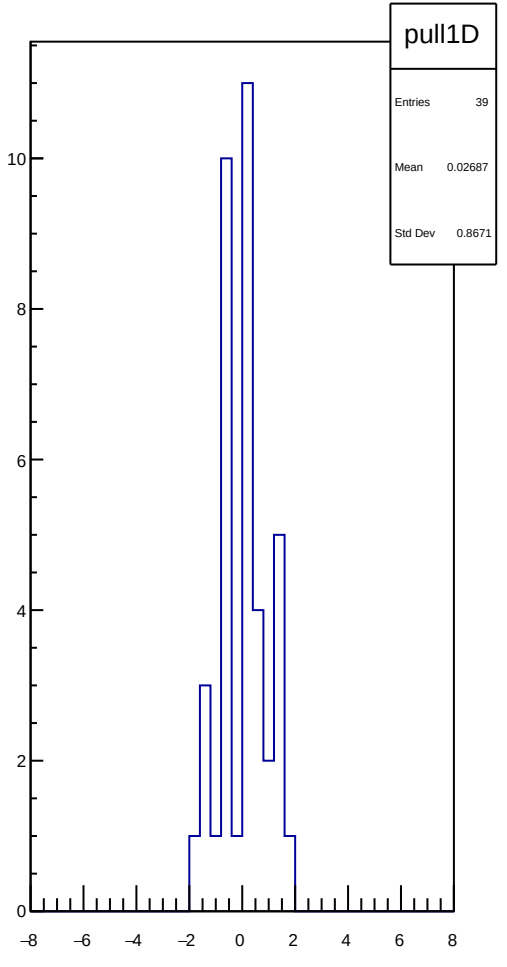

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.138e+04 / 38
p0 754.9 ± 0.8856
1500
1400
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

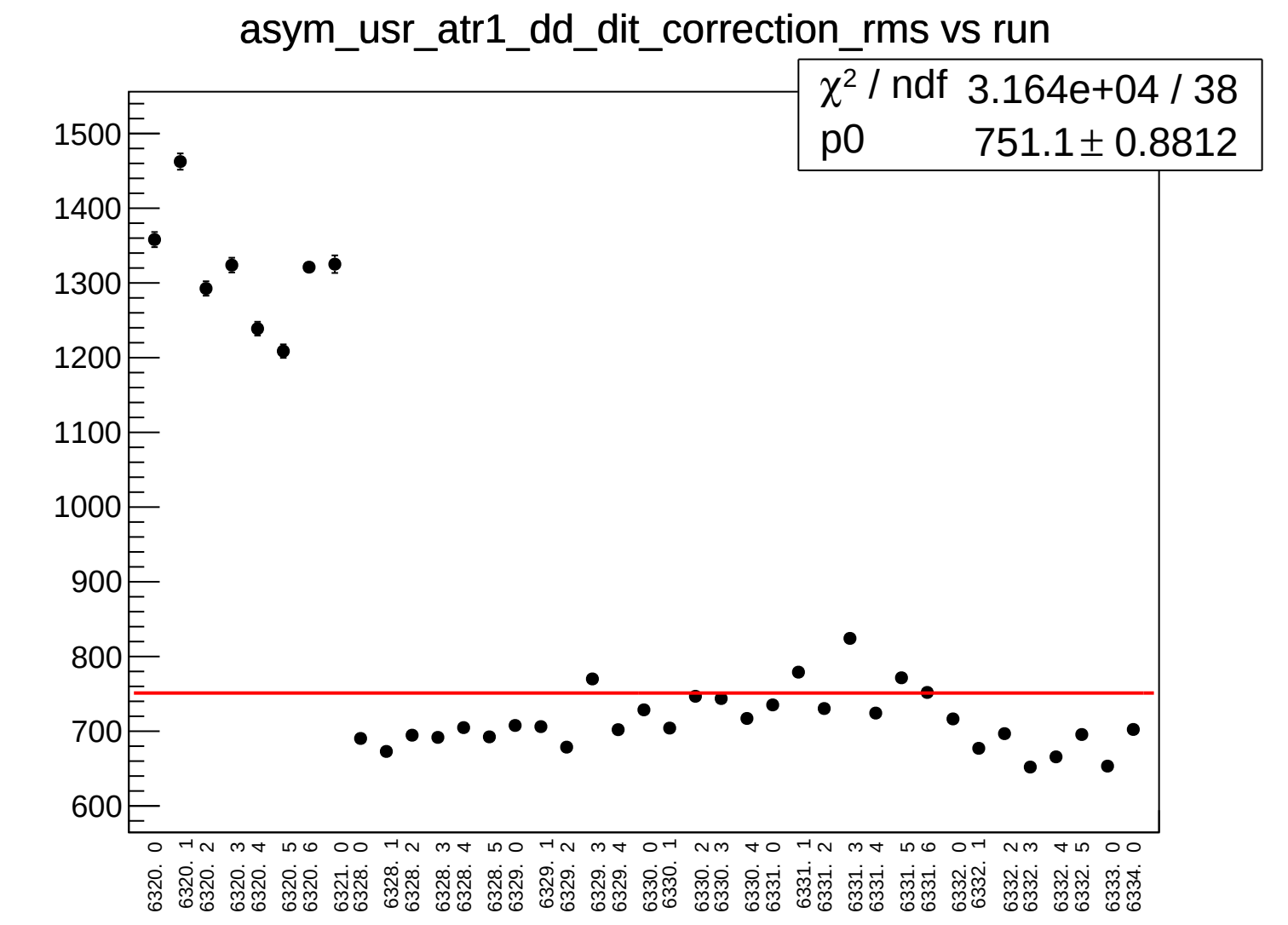

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 38.93 / 38
p0 −4282 ± 2152
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

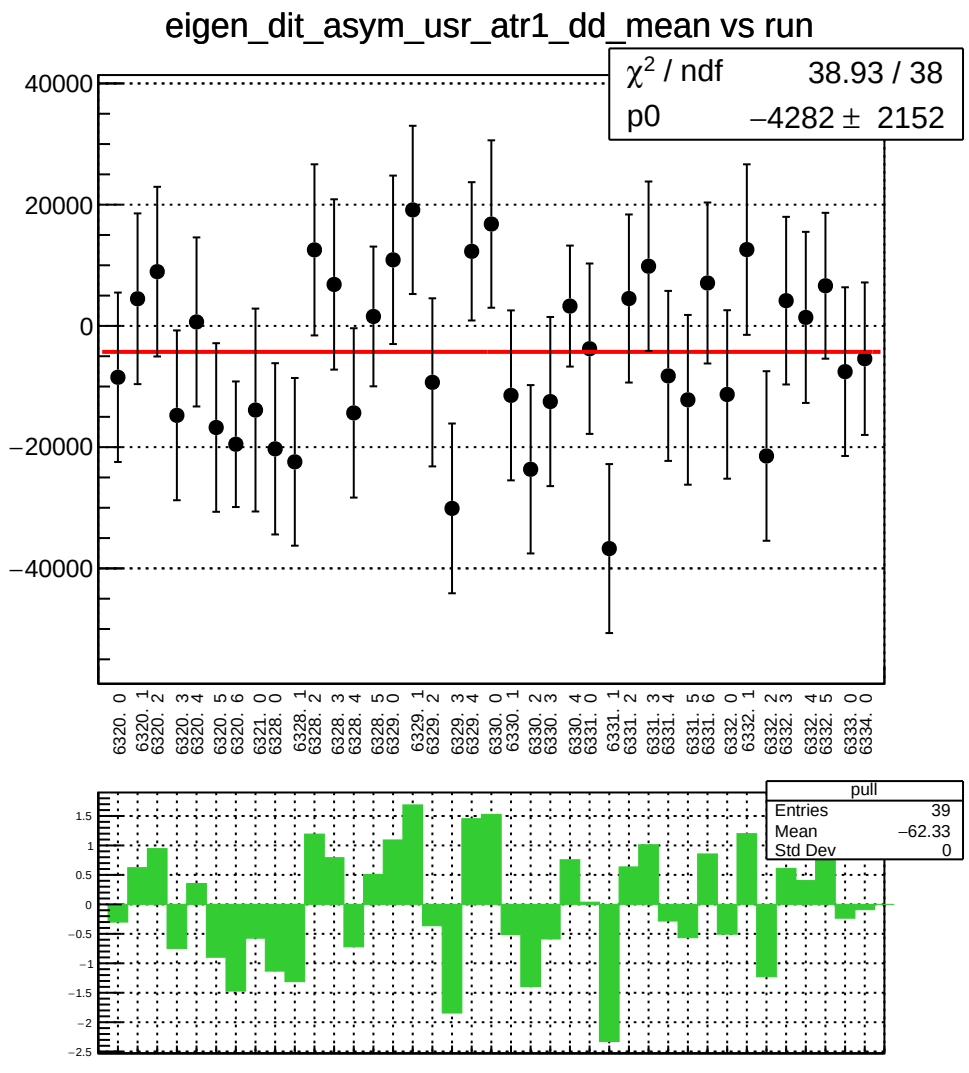

pull1D
Entries 39
Mean −0.01273
Std Dev 0.999
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

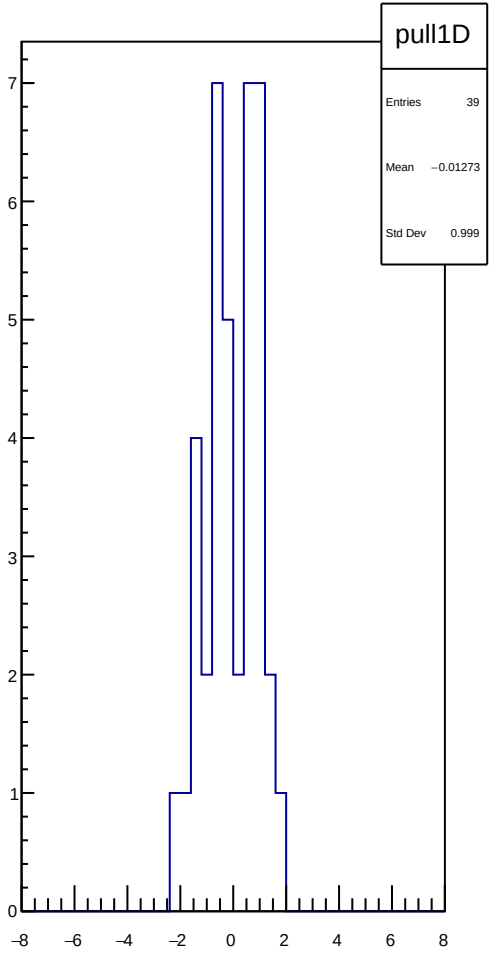

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 26.47 / 38
p0 1325 ± 1.522
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

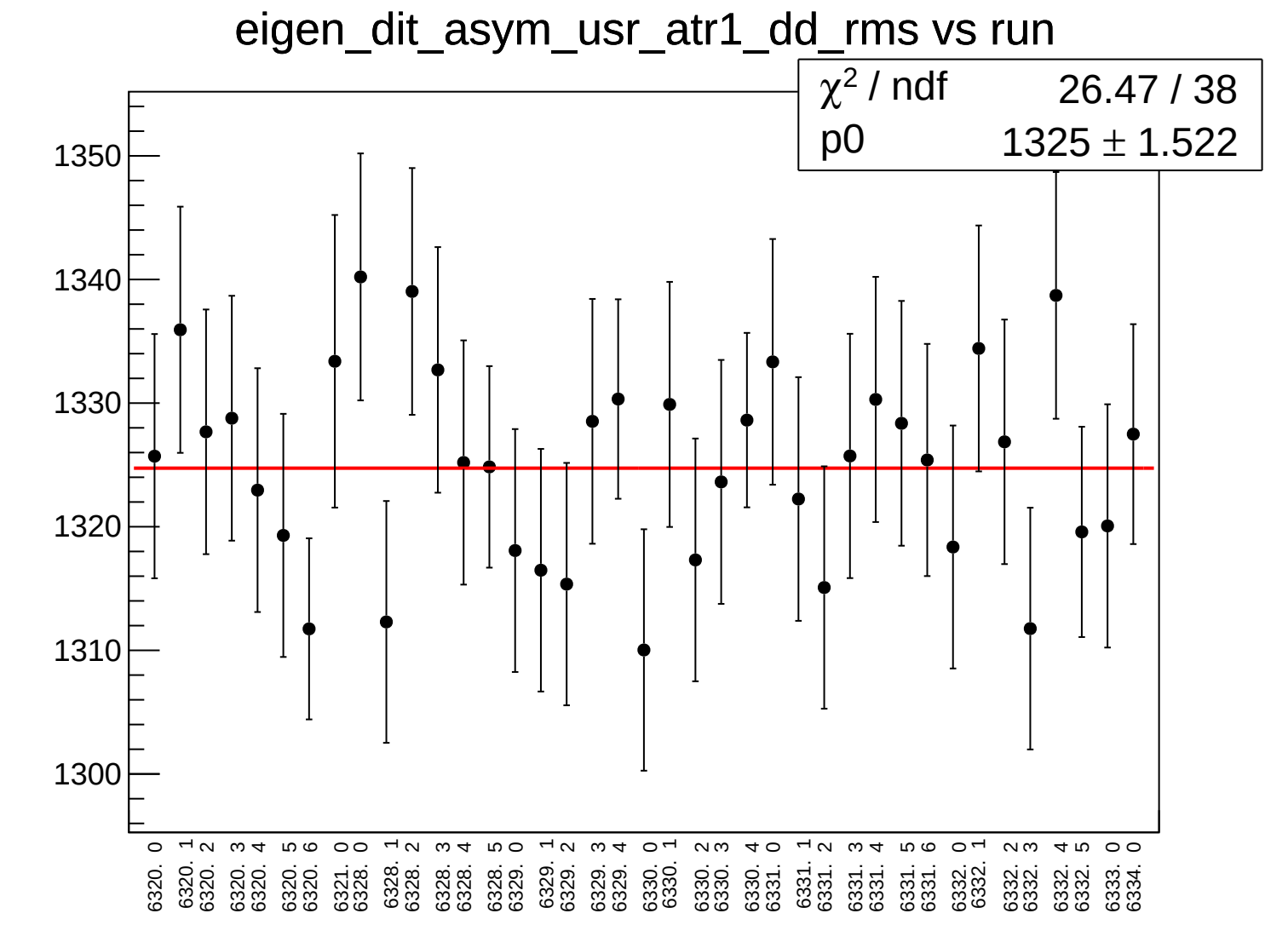

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 29.35 / 38
p0 1293 ± 1246
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.52
Std Dev 18
1.5
1
0.5
0
−0.5
−1
−1.5

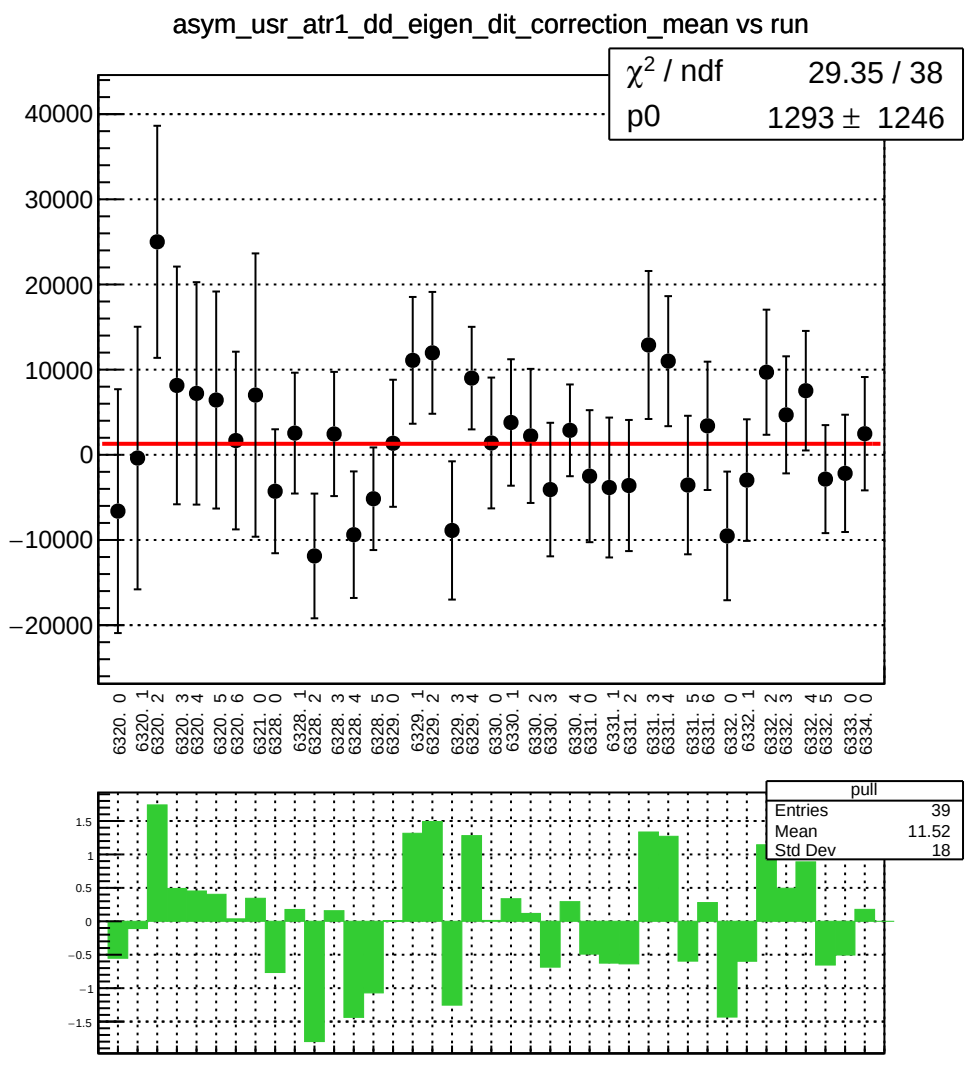

pull1D
Entries 39
Mean 0.02687
Std Dev 0.8671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

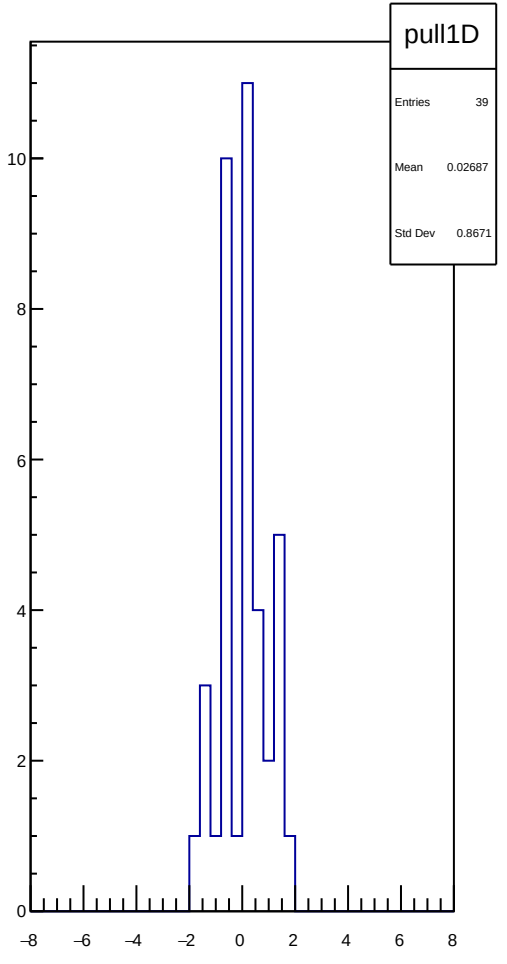

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3.164e+04 / 38
p0 751.1 ± 0.8812
1500
1400
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

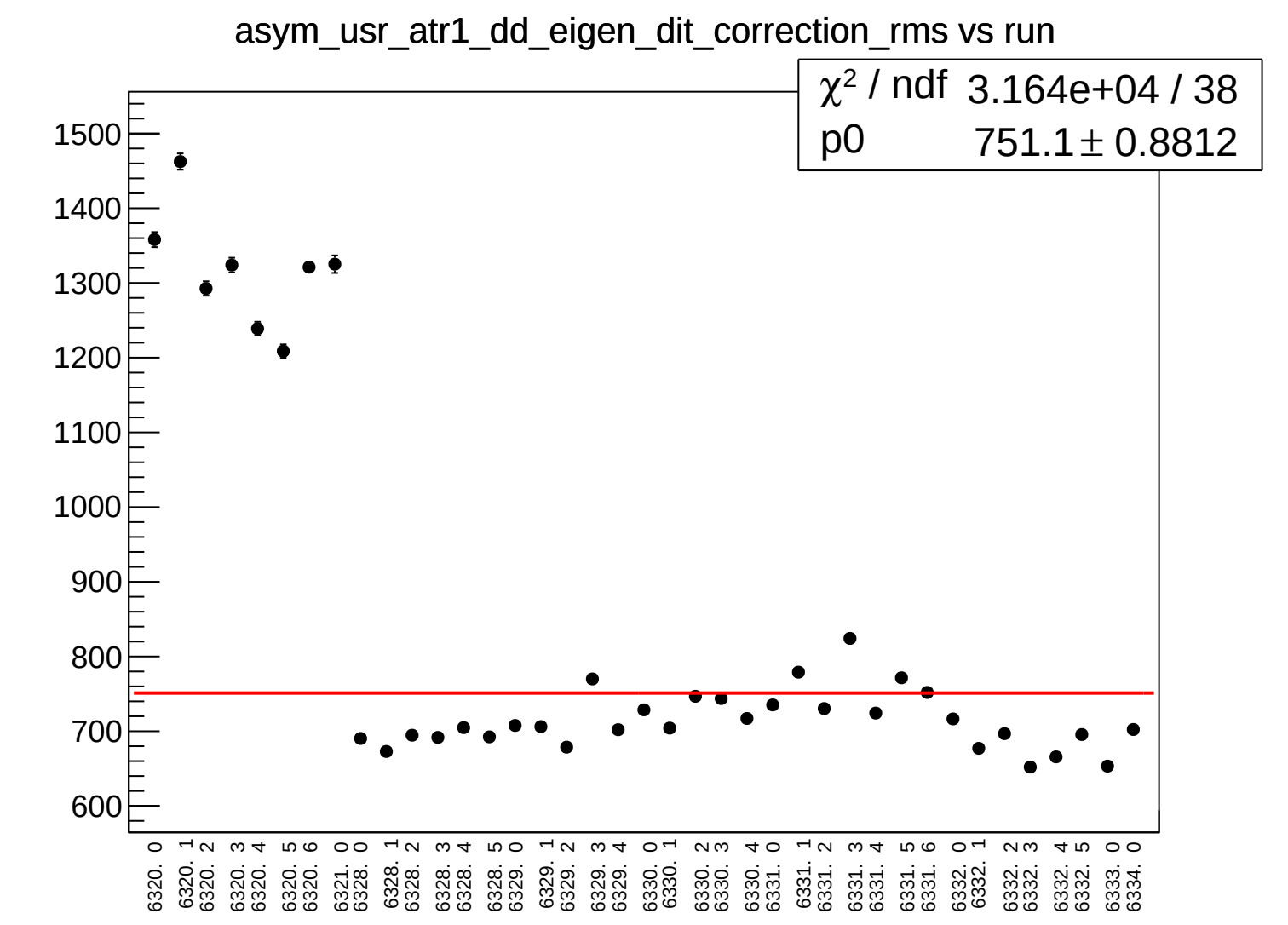

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 38.93 / 38
p0 −4282 ± 2152
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

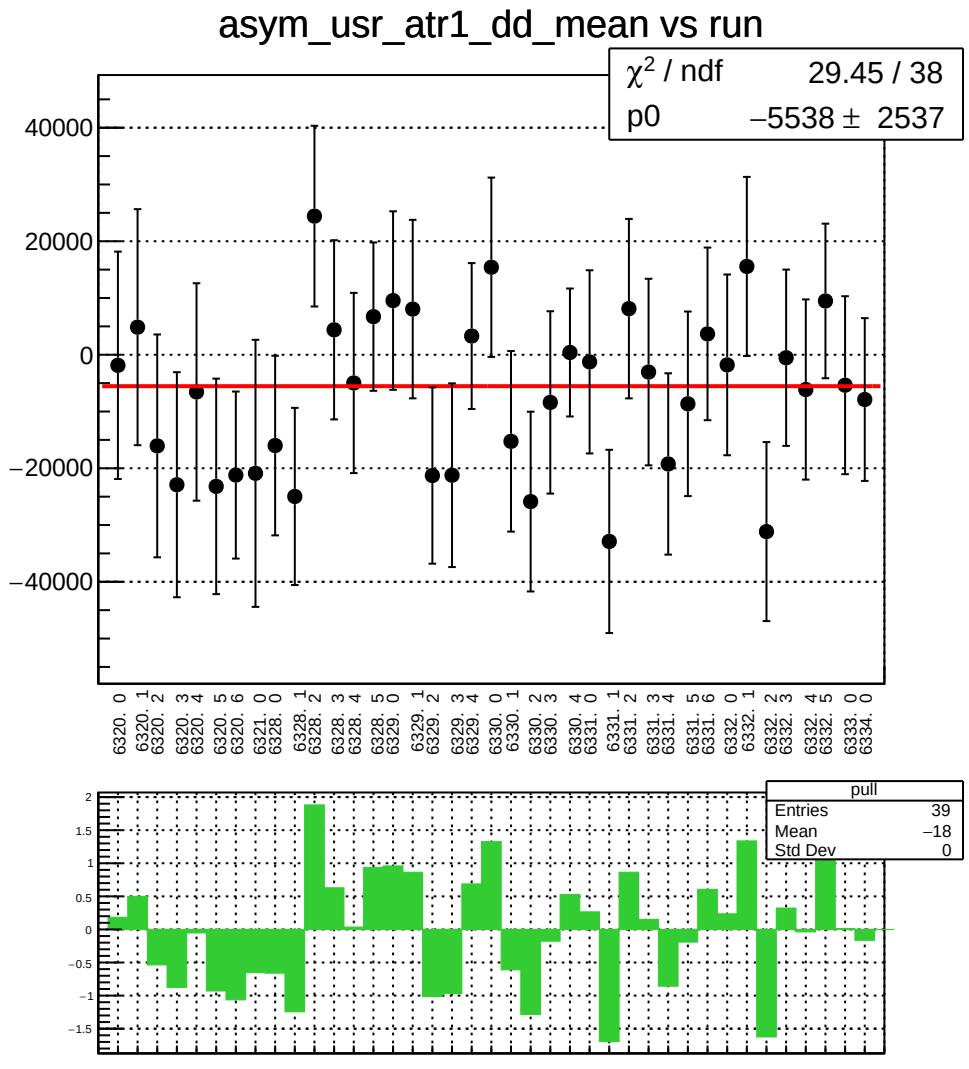

pull1D
Entries 39
Mean −0.01273
Std Dev 0.999
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

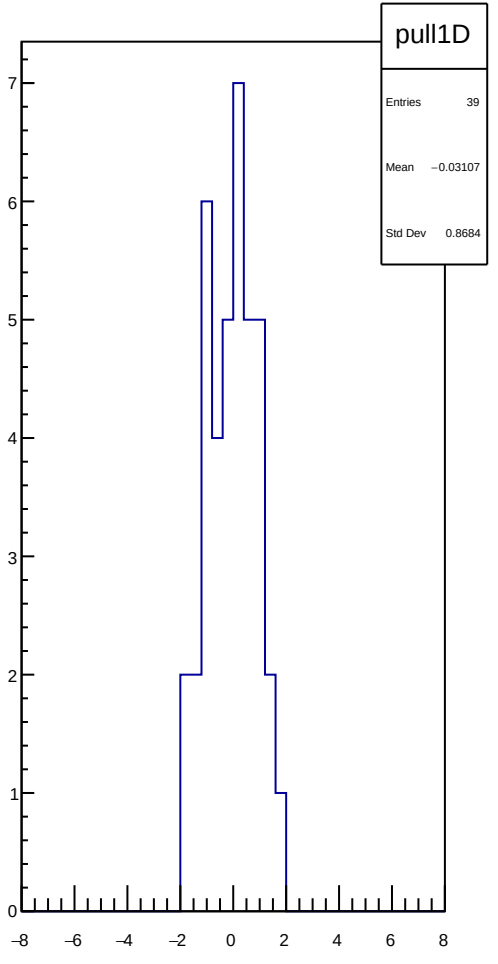

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 26.47 / 38
p0 1325 ± 1.522
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

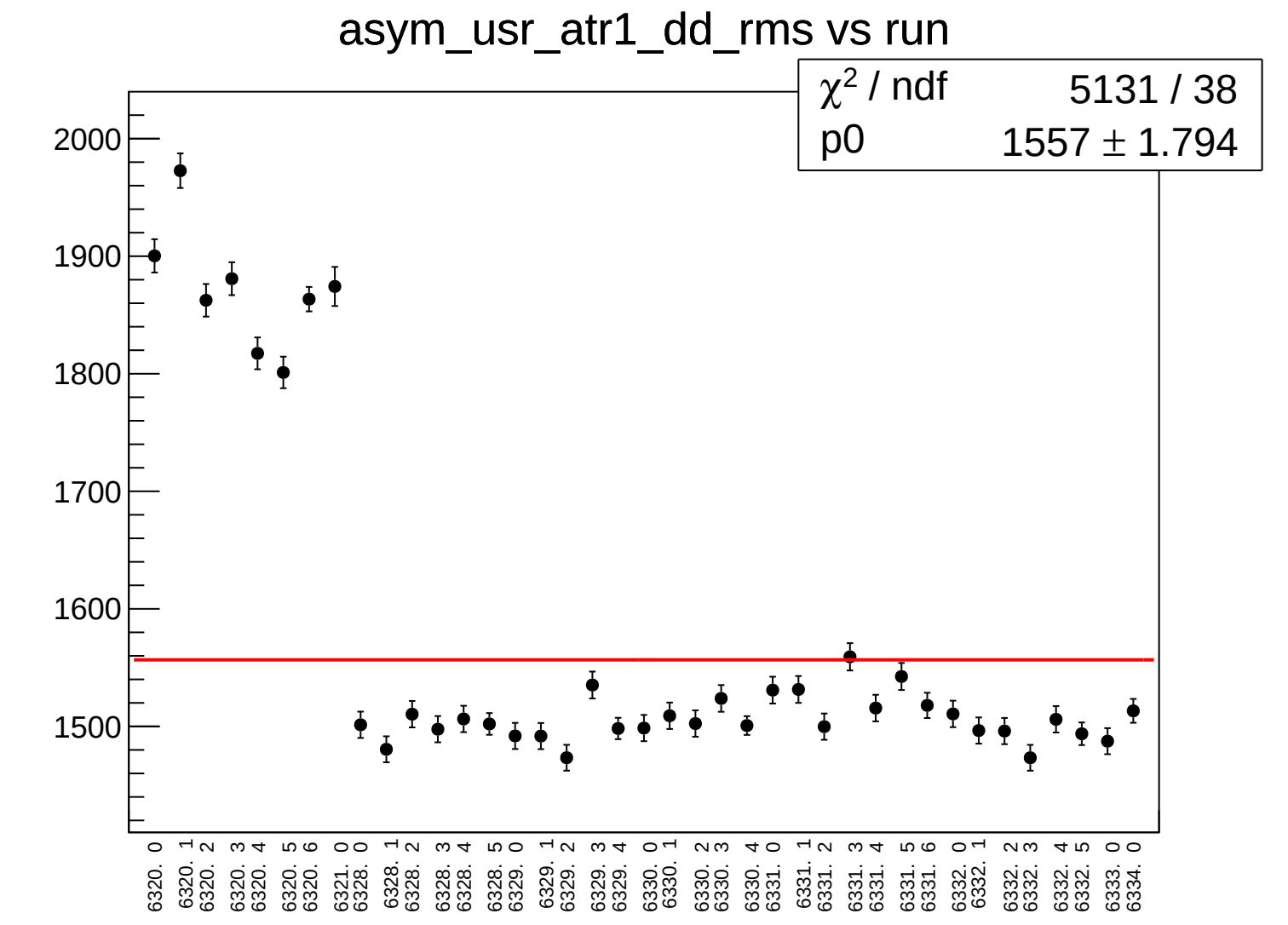

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 29.35 / 38
p0 1293 ± 1246
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.52
Std Dev 18
1.5
1
0.5
0
−0.5
−1
−1.5

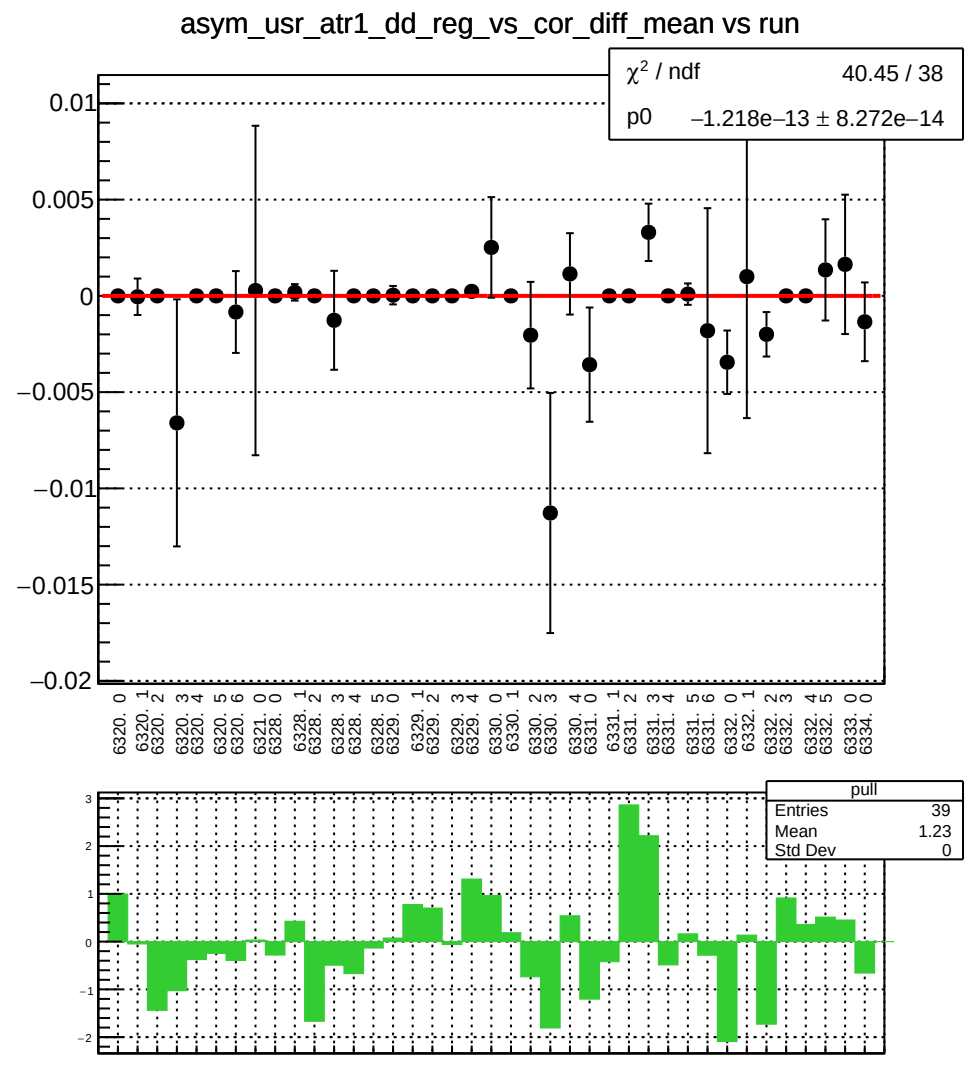

pull1D
Entries 39
Mean 0.02687
Std Dev 0.8671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

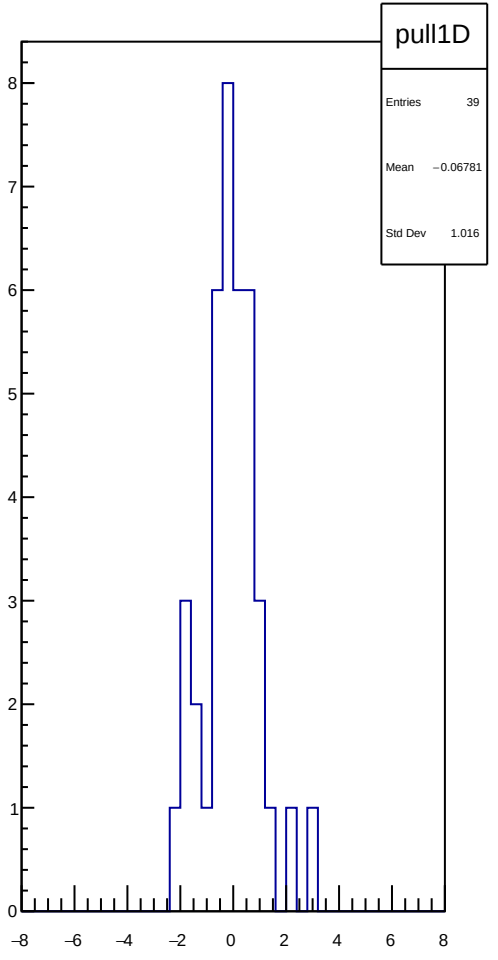

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.164e+04 / 38
p0 751.1 ± 0.8812
1500
1400
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

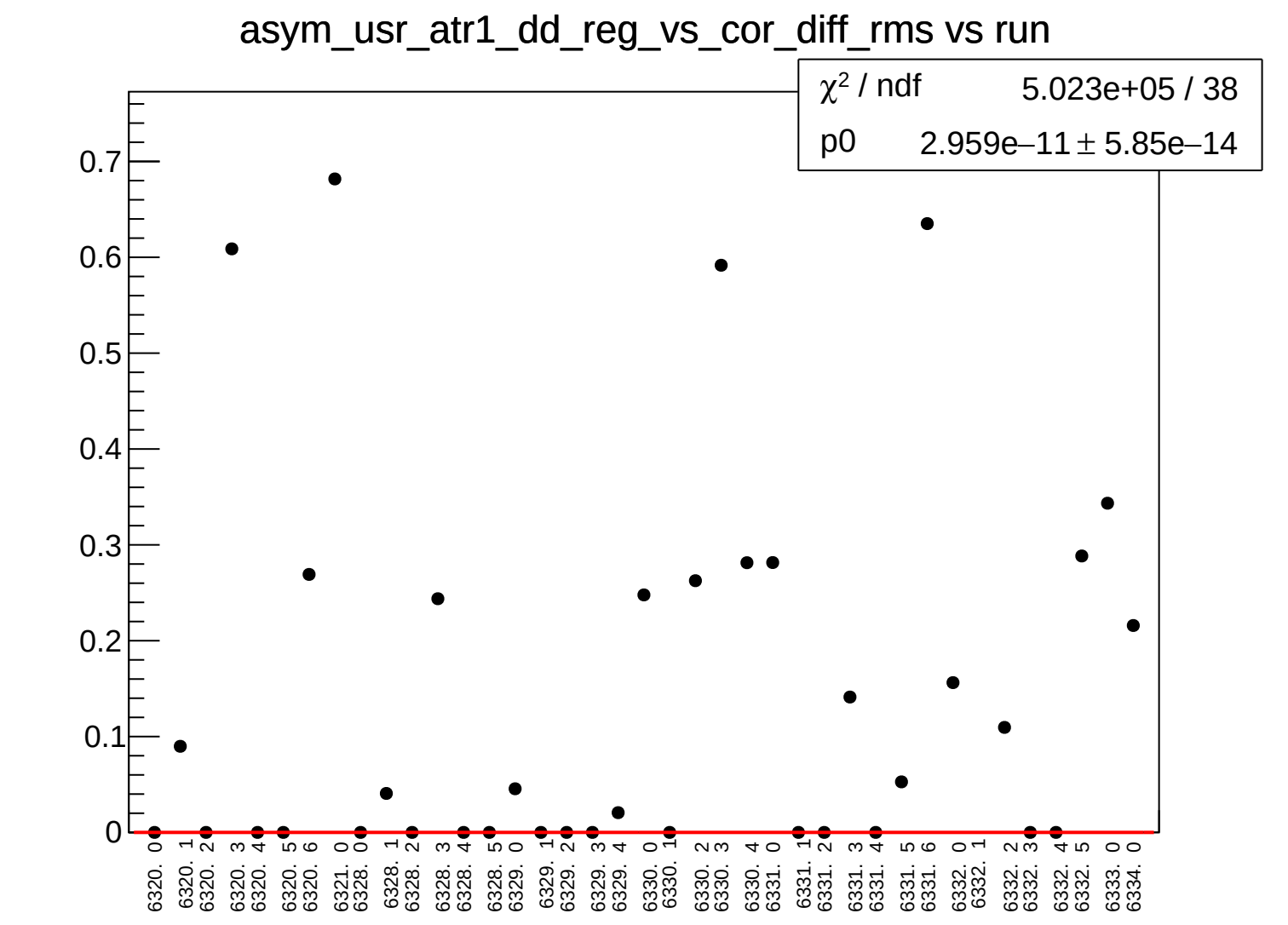

asym_usr_atr1_dd_mean vs run
χ² / ndf 29.45 / 38
p0 −5538 ± 2537
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

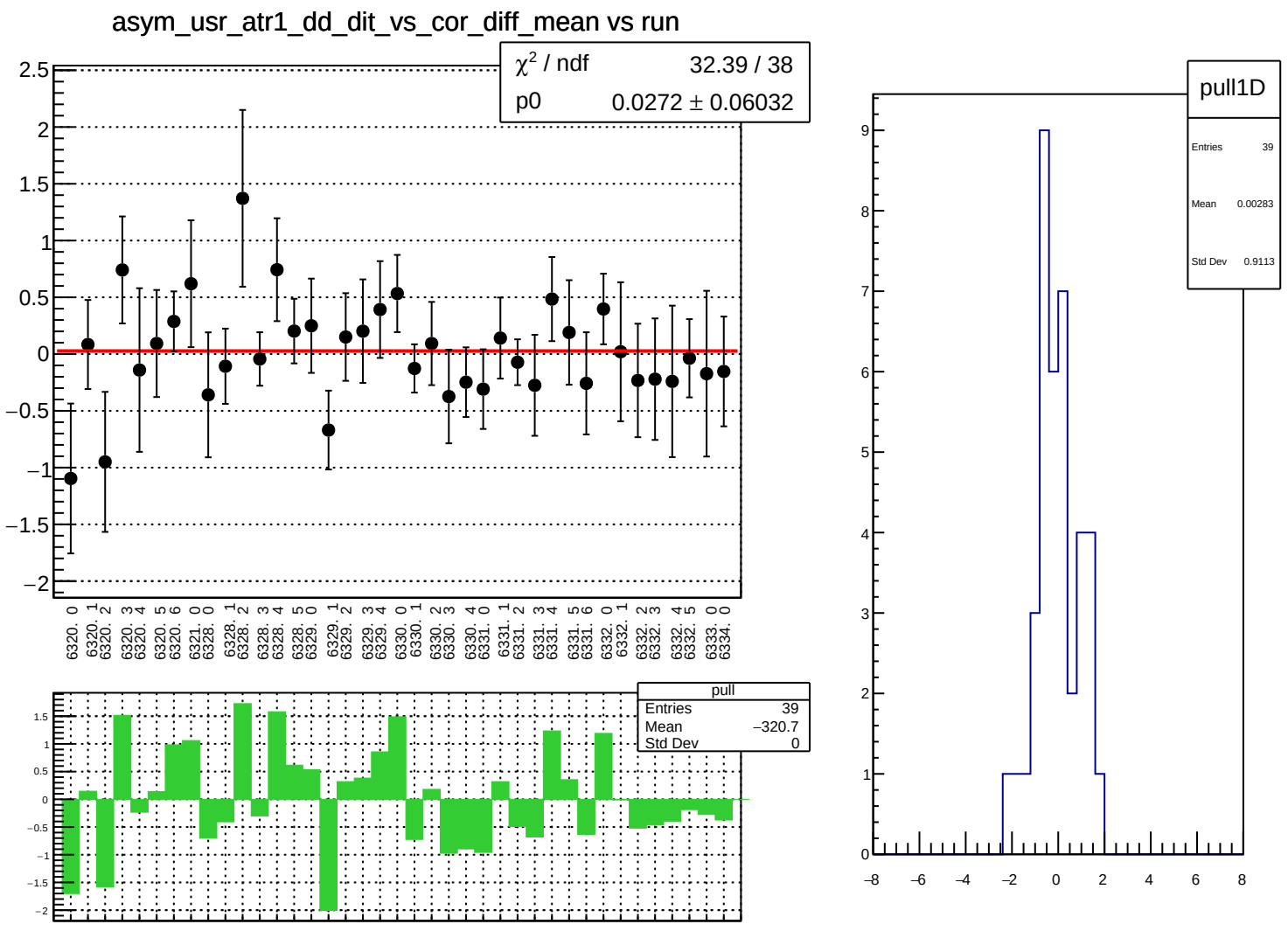

pull1D
Entries 39
Mean −0.03107
Std Dev 0.8684
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

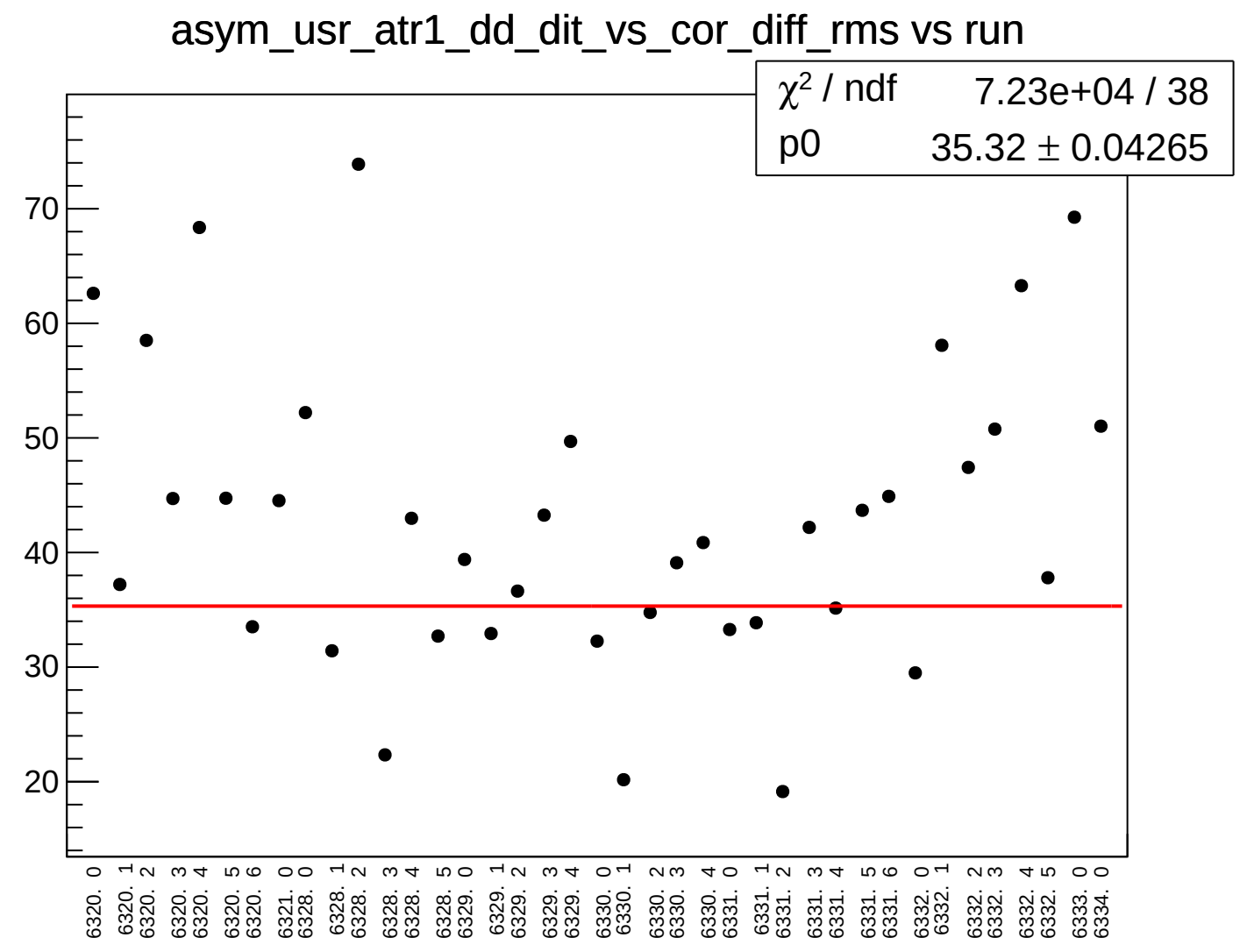

asym_usr_atr1_dd_rms vs run
χ² / ndf 5131 / 38
p0 1557 ± 1.794
2000
1900
1800
1700
1600
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

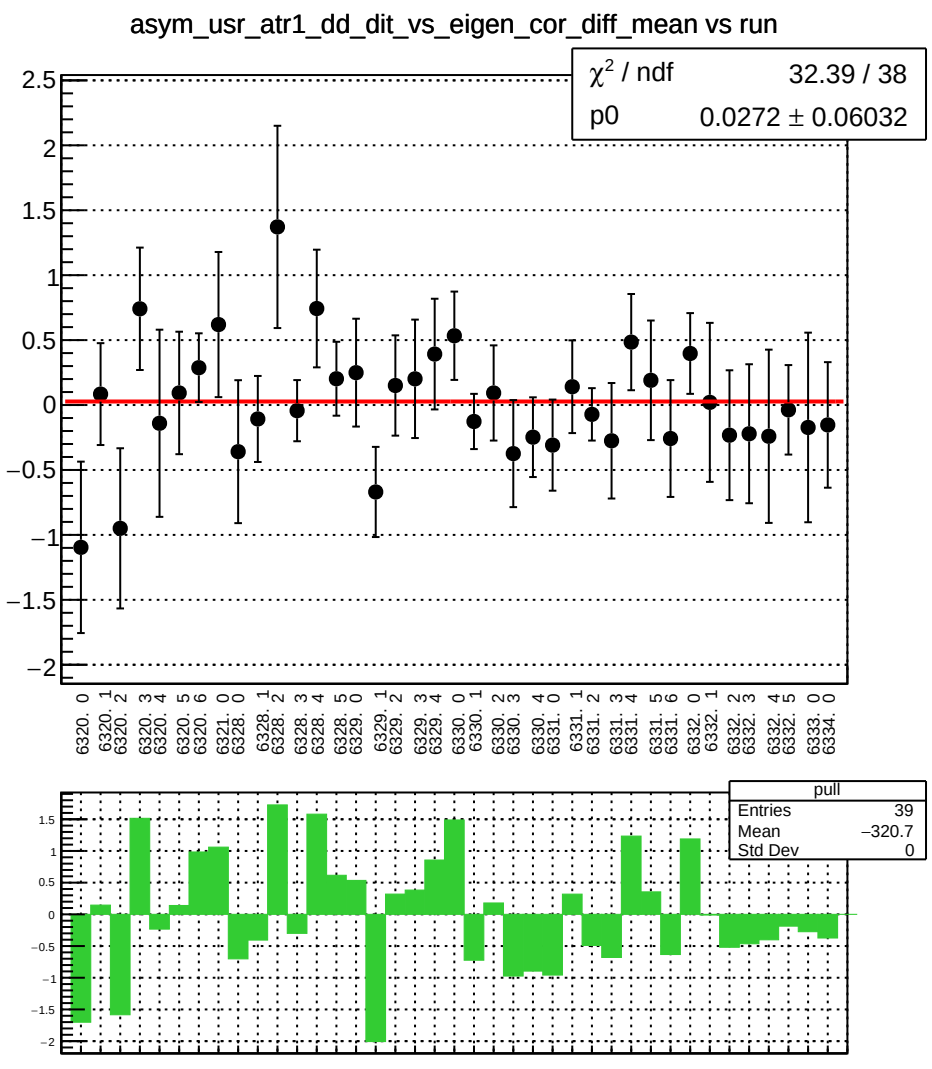

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 40.45 / 38
p0 −1.218e−13 ± 8.272e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.23
Std Dev 0
3
2
1
0
−1
−2

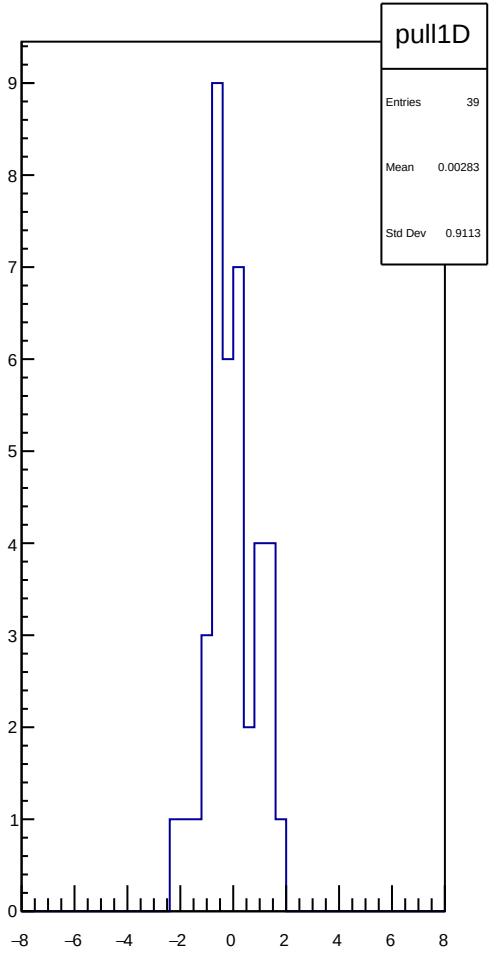

pull1D
Entries 39
Mean −0.06781
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

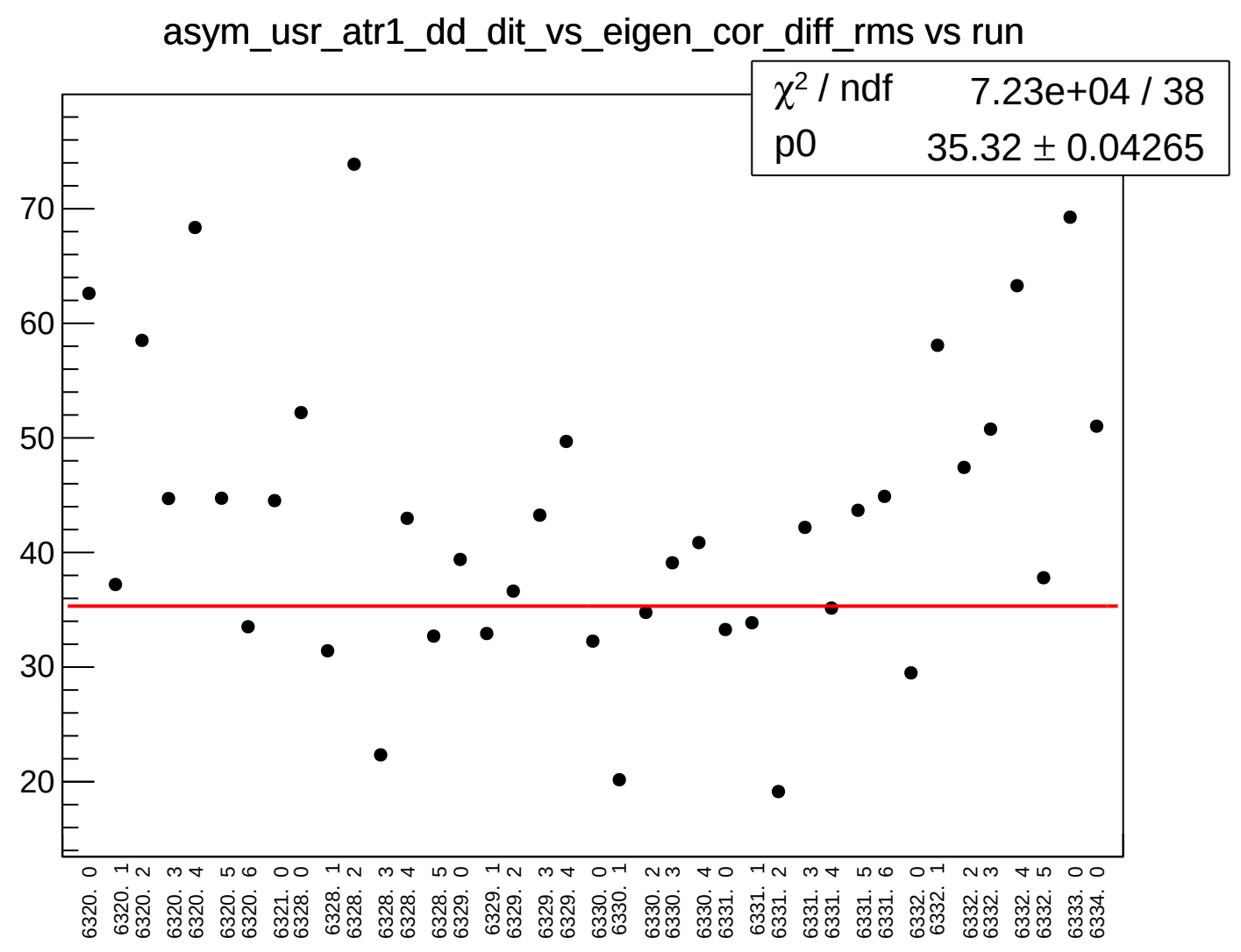

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.023e+05 / 38
p0 2.959e−11 ± 5.85e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

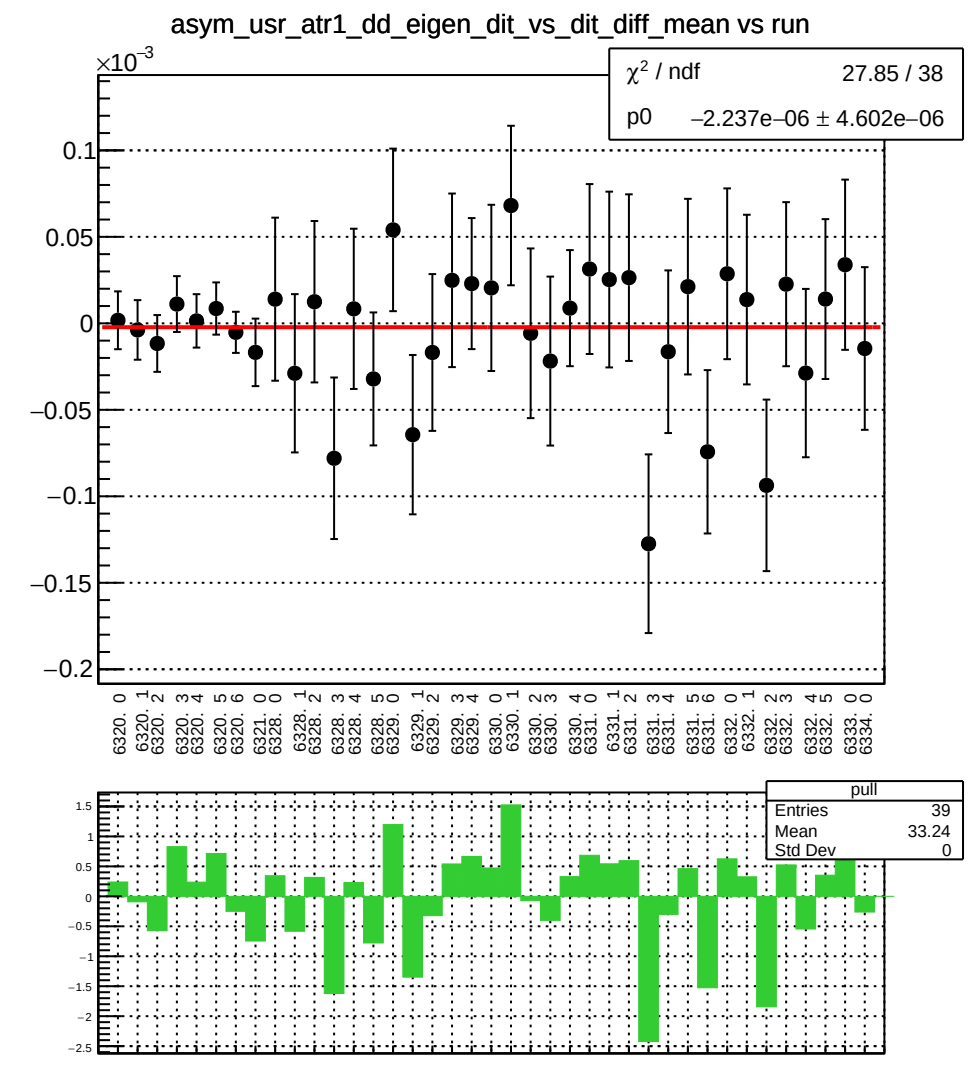

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.39 / 38
p0 0.0272 ± 0.06032
pull
Entries 39
Mean −320.7
Std Dev 0
pull1D
Entries 39
Mean 0.00283
Std Dev 0.9113

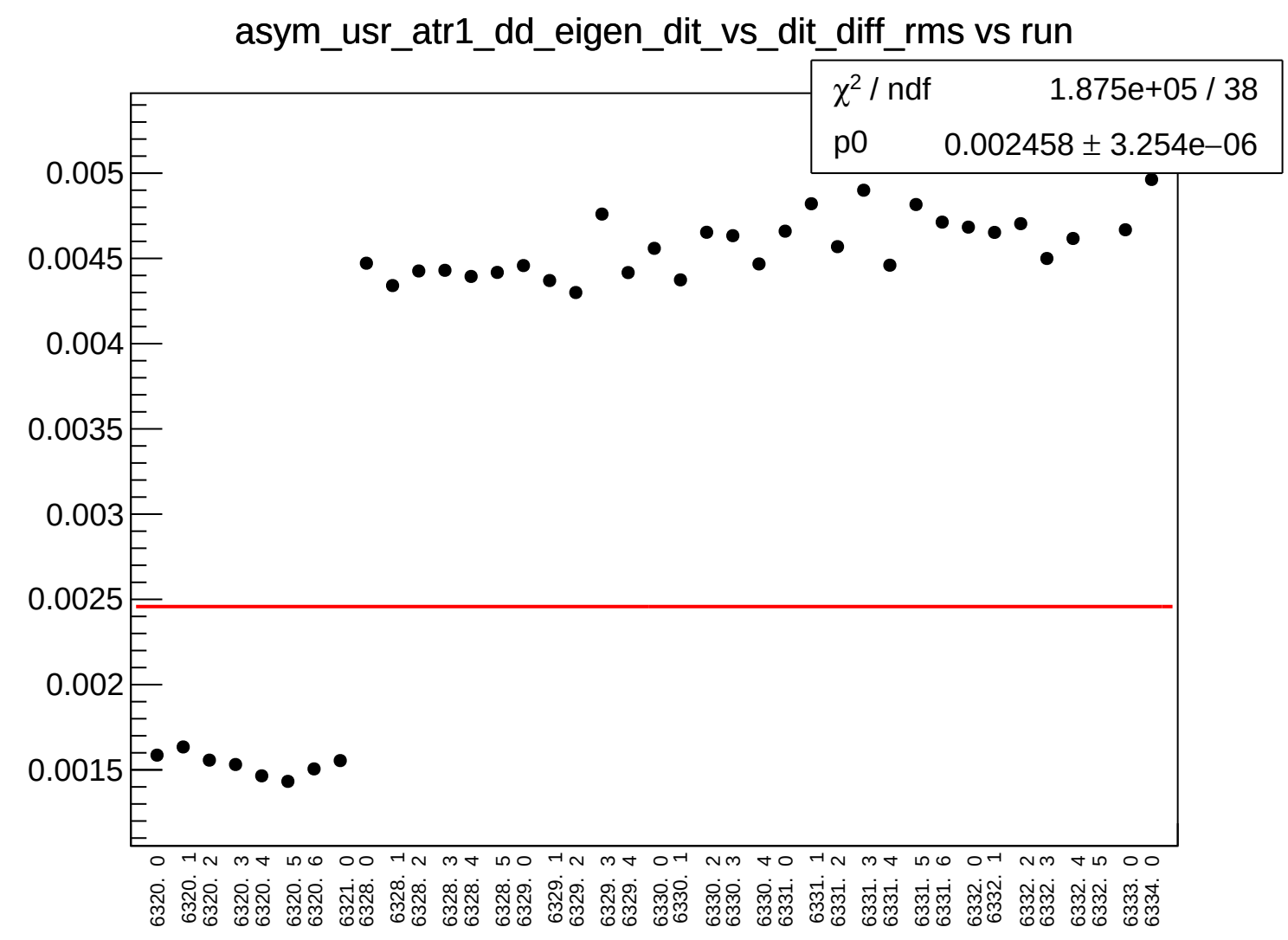

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 38
p0 35.32 ± 0.04265
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

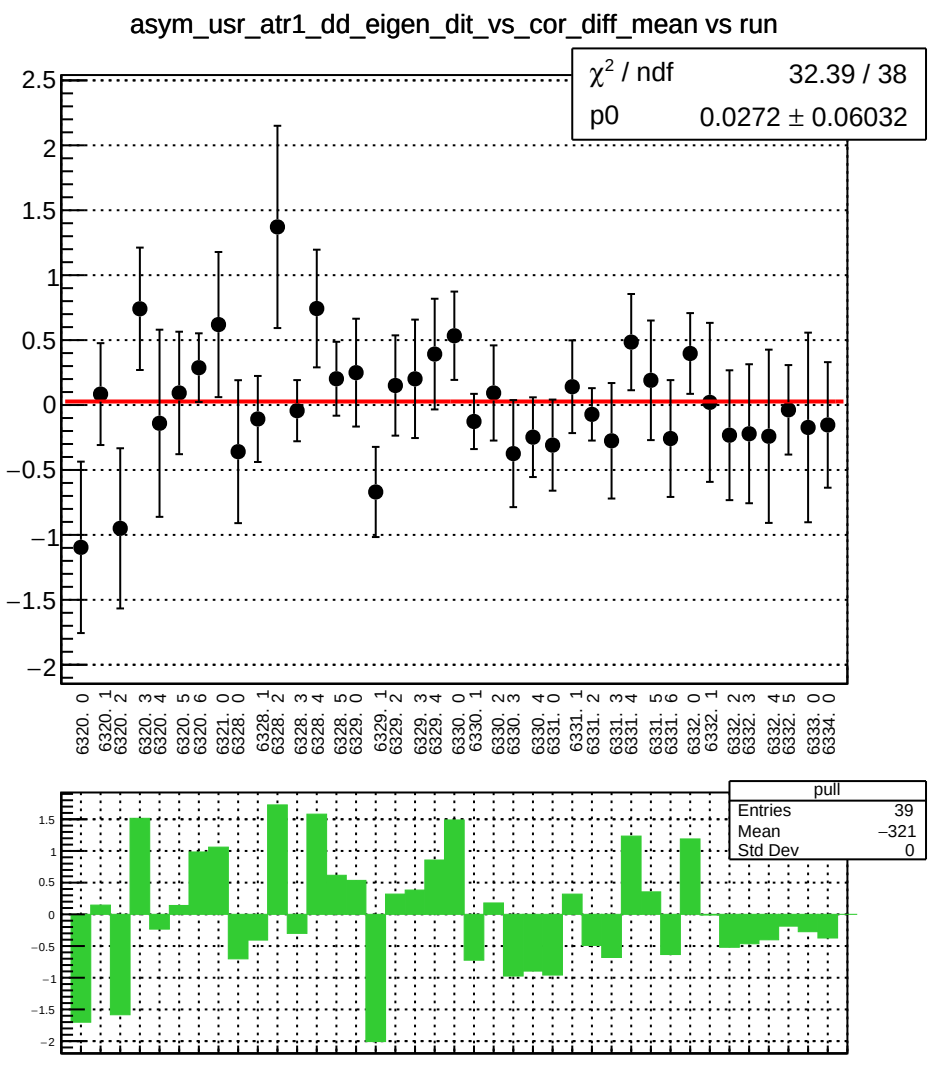

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.39 / 38
p0 0.0272 ± 0.06032
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −320.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

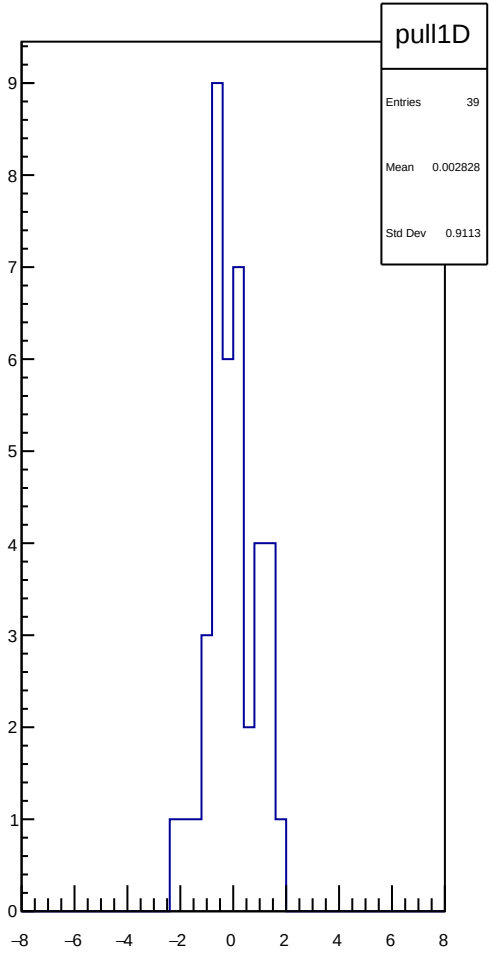

pull1D
Entries 39
Mean 0.00283
Std Dev 0.9113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

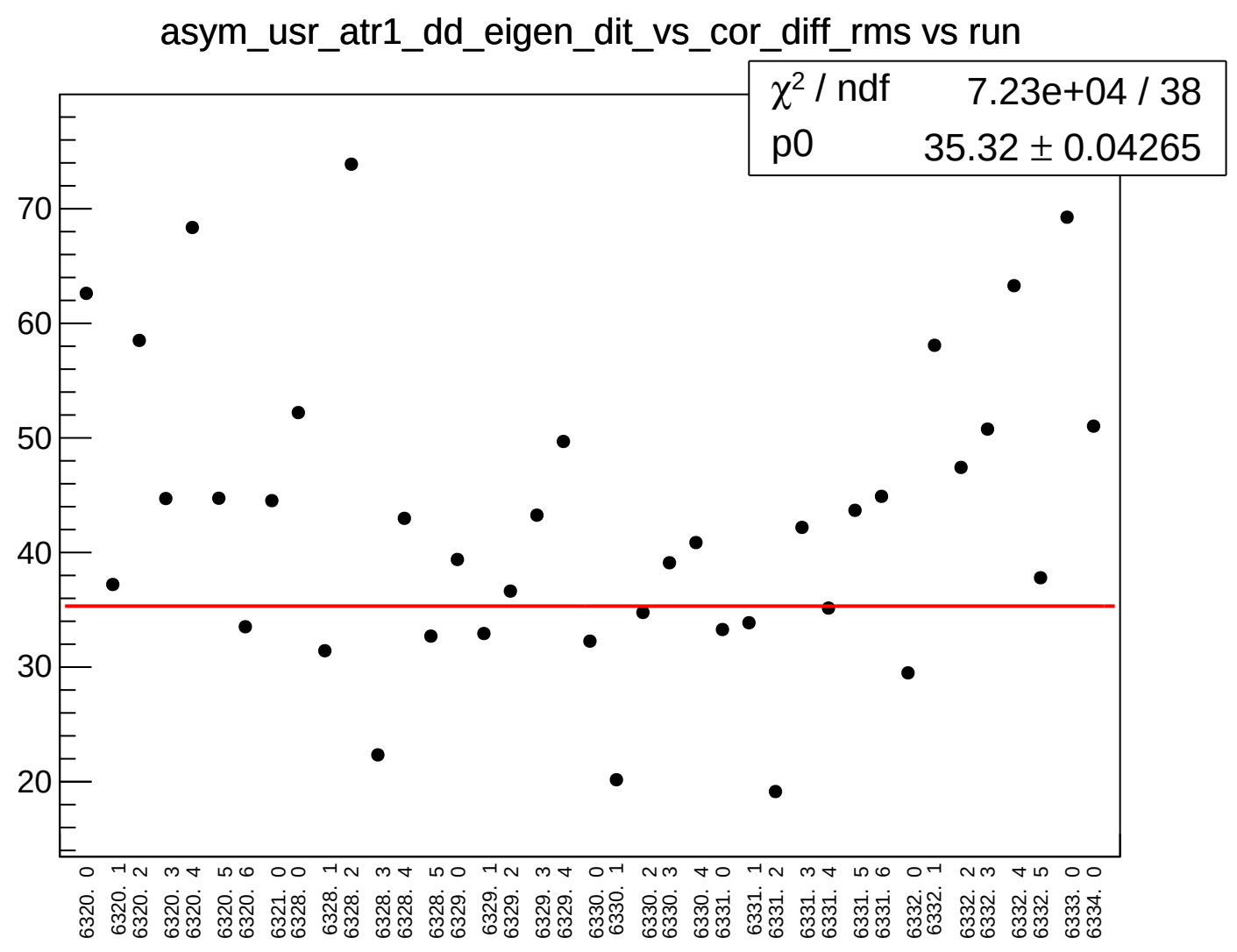

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 38
p0 35.32 ± 0.04265
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

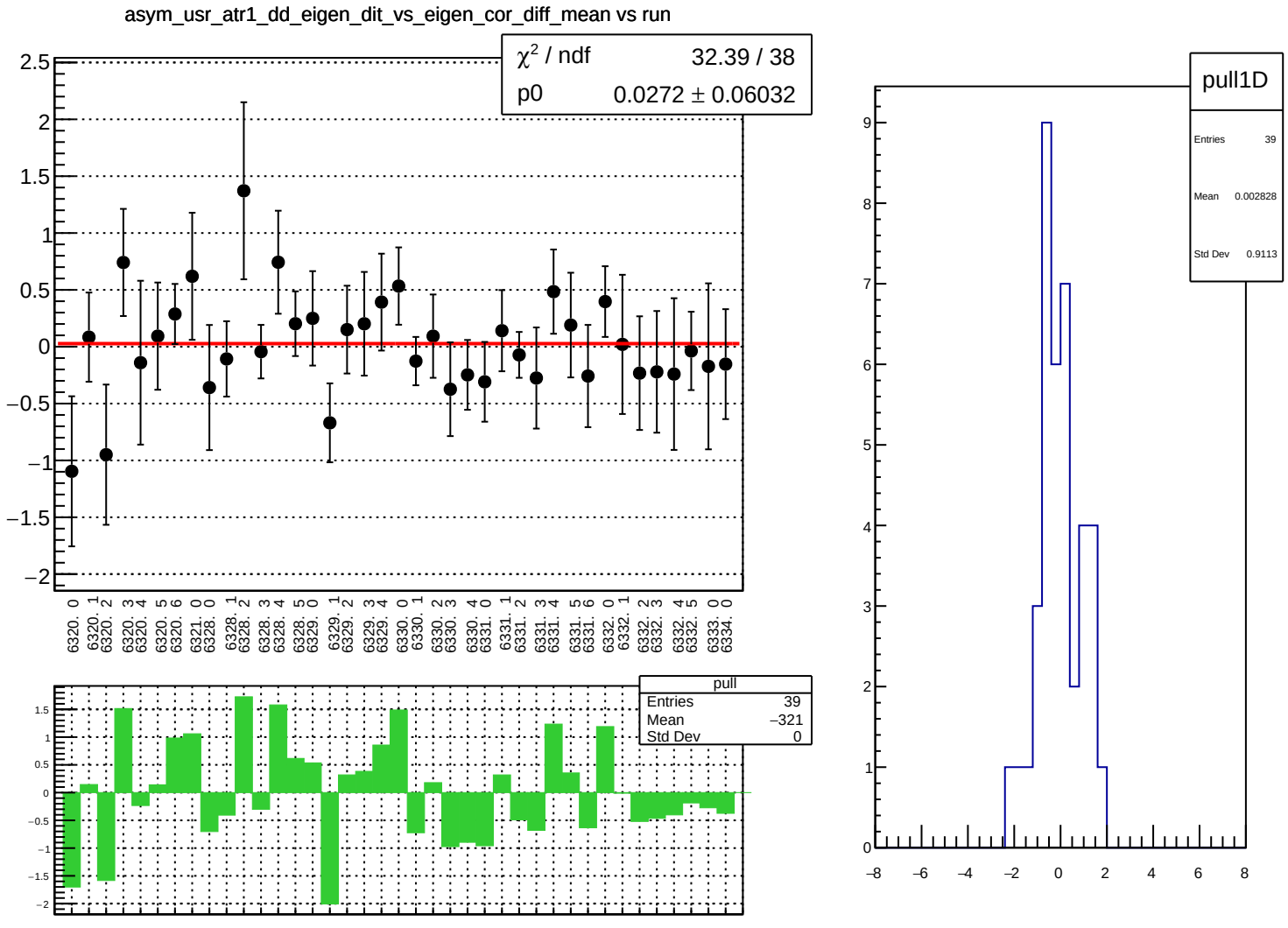

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.85 / 38
p0 −2.237e−06 ± 4.602e−06
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03089
Std Dev 0.8445
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

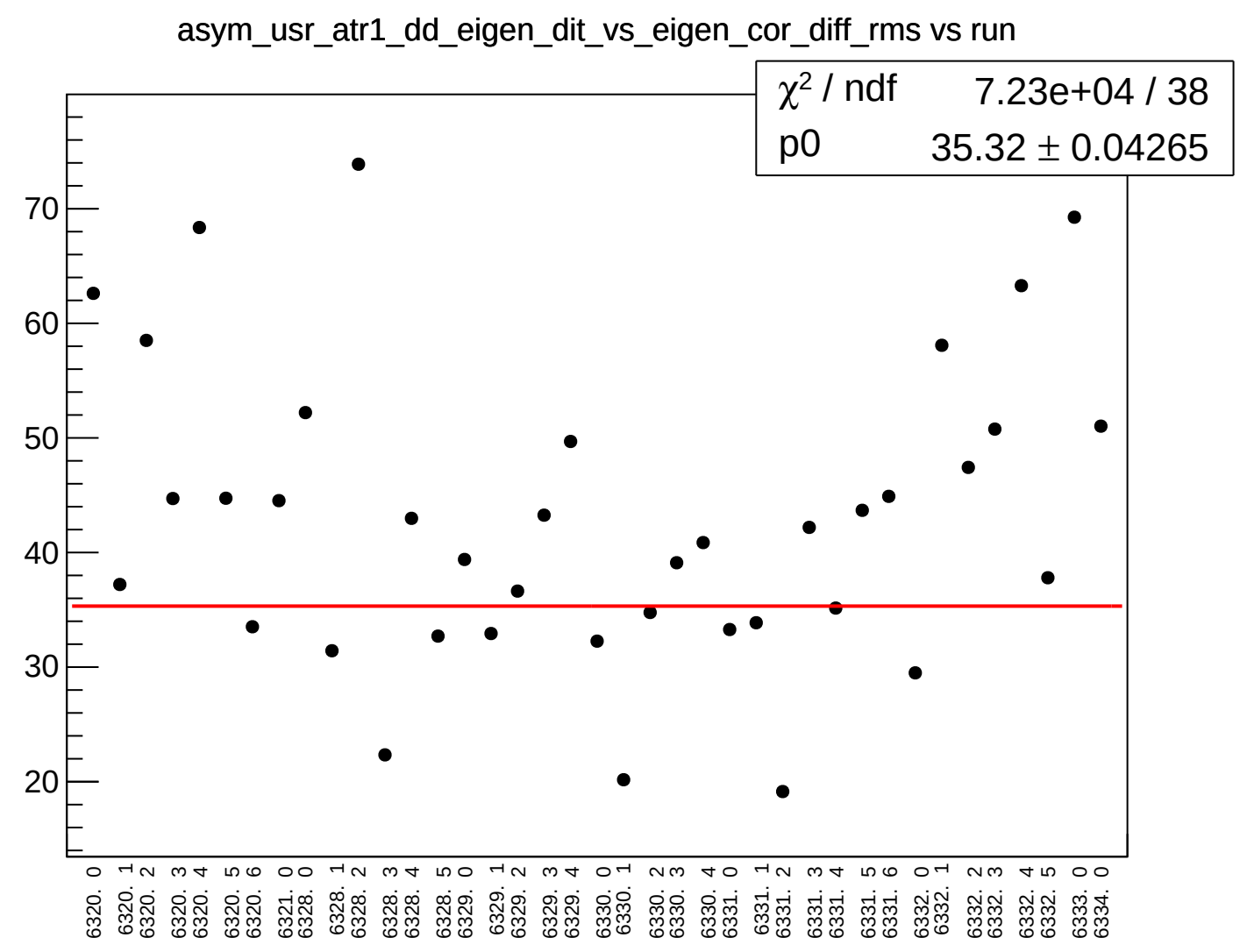

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.875e+05 / 38
p0 0.002458 ± 3.254e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

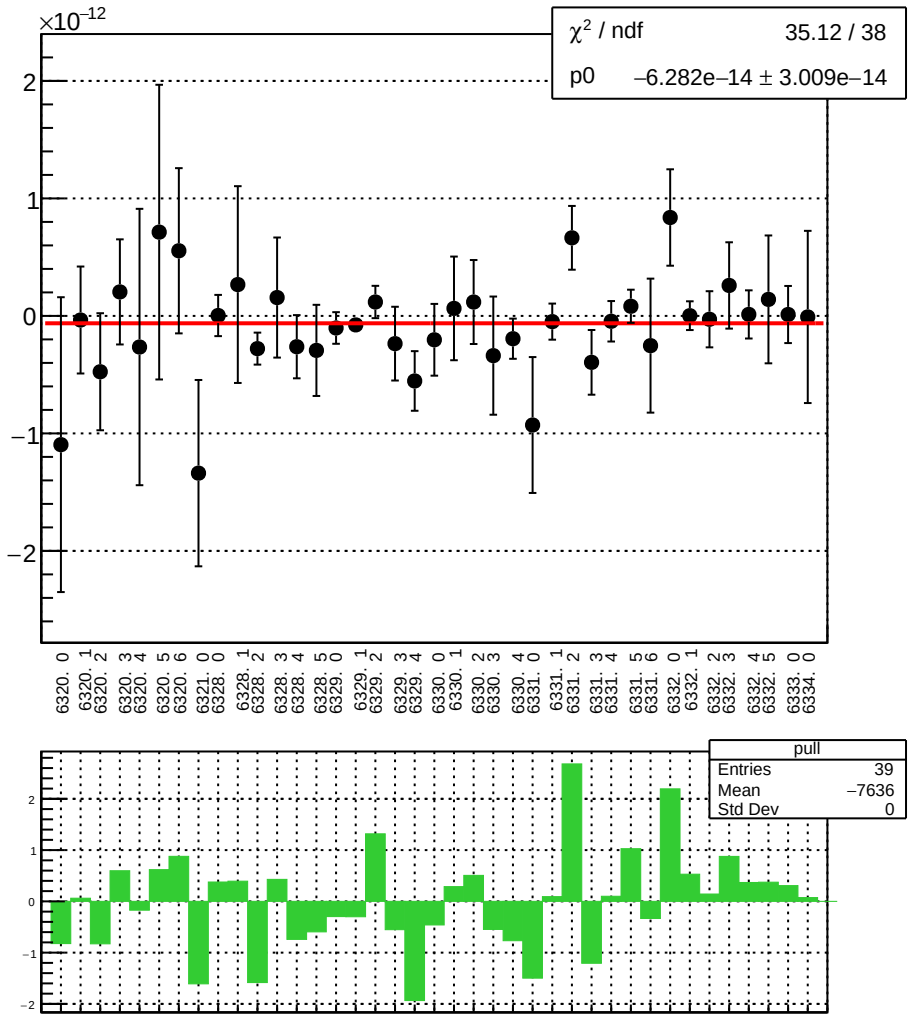

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.39 / 38
p0 0.0272 ± 0.06032
pull
Entries 39
Mean −321
Std Dev 0

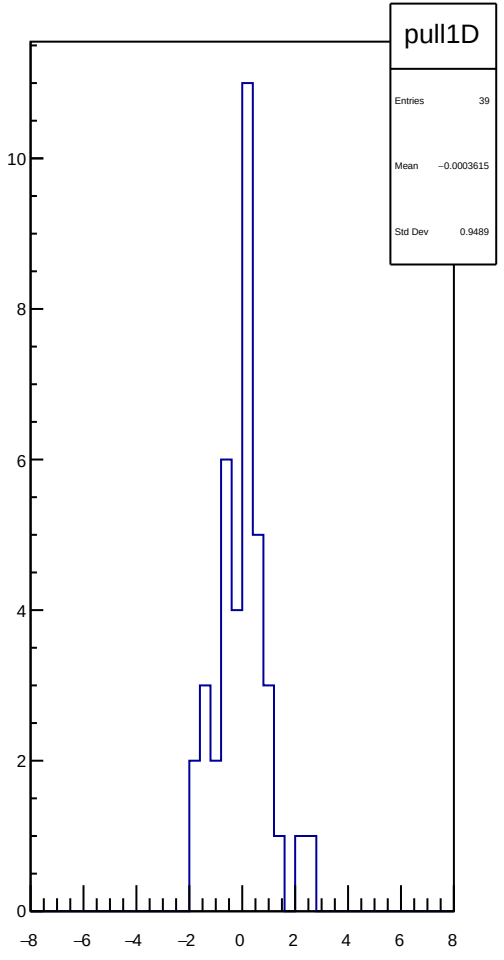

pull1D
Entries 39
Mean 0.002828
Std Dev 0.9113

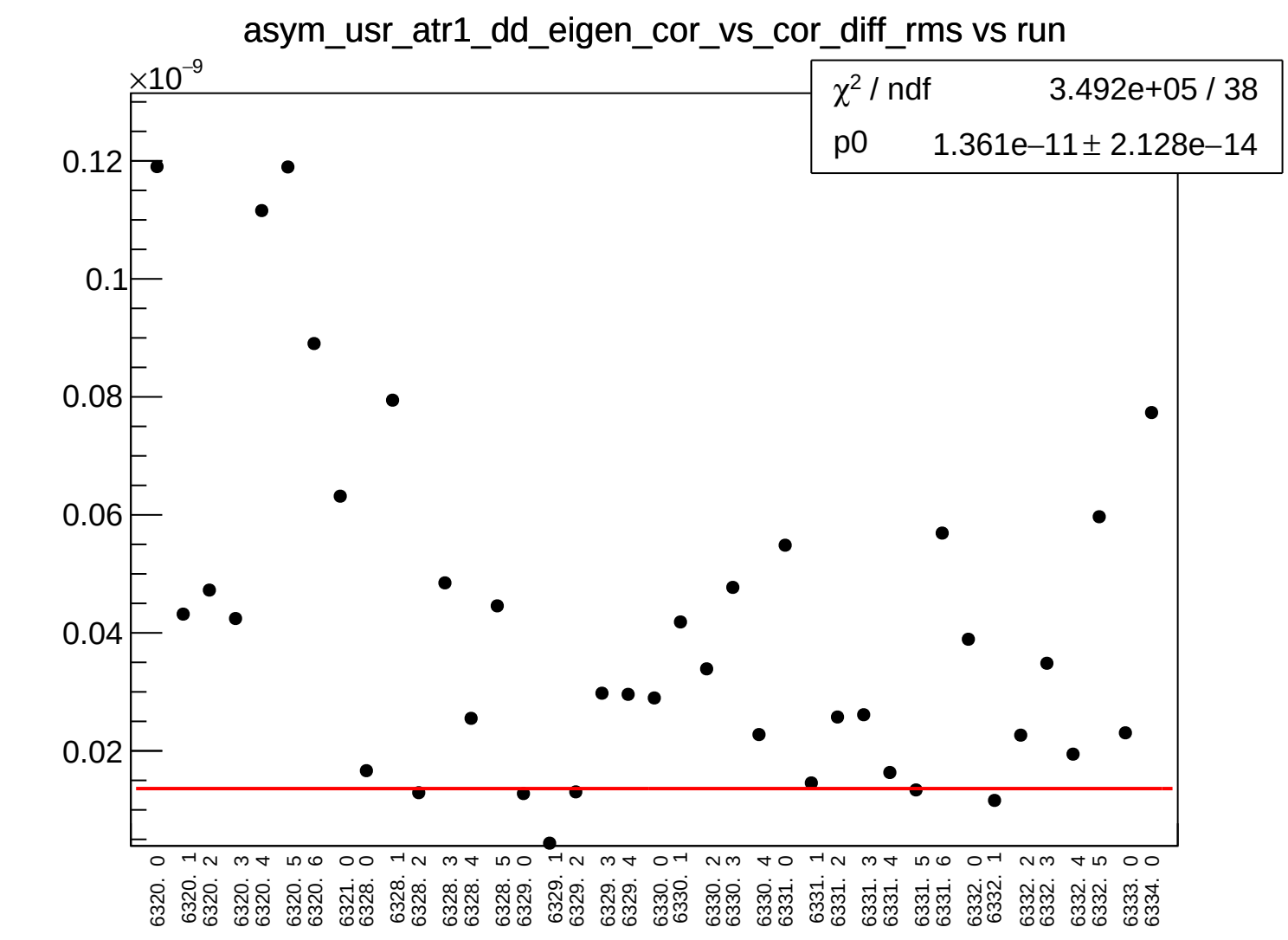

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 38
p0 35.32 ± 0.04265
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

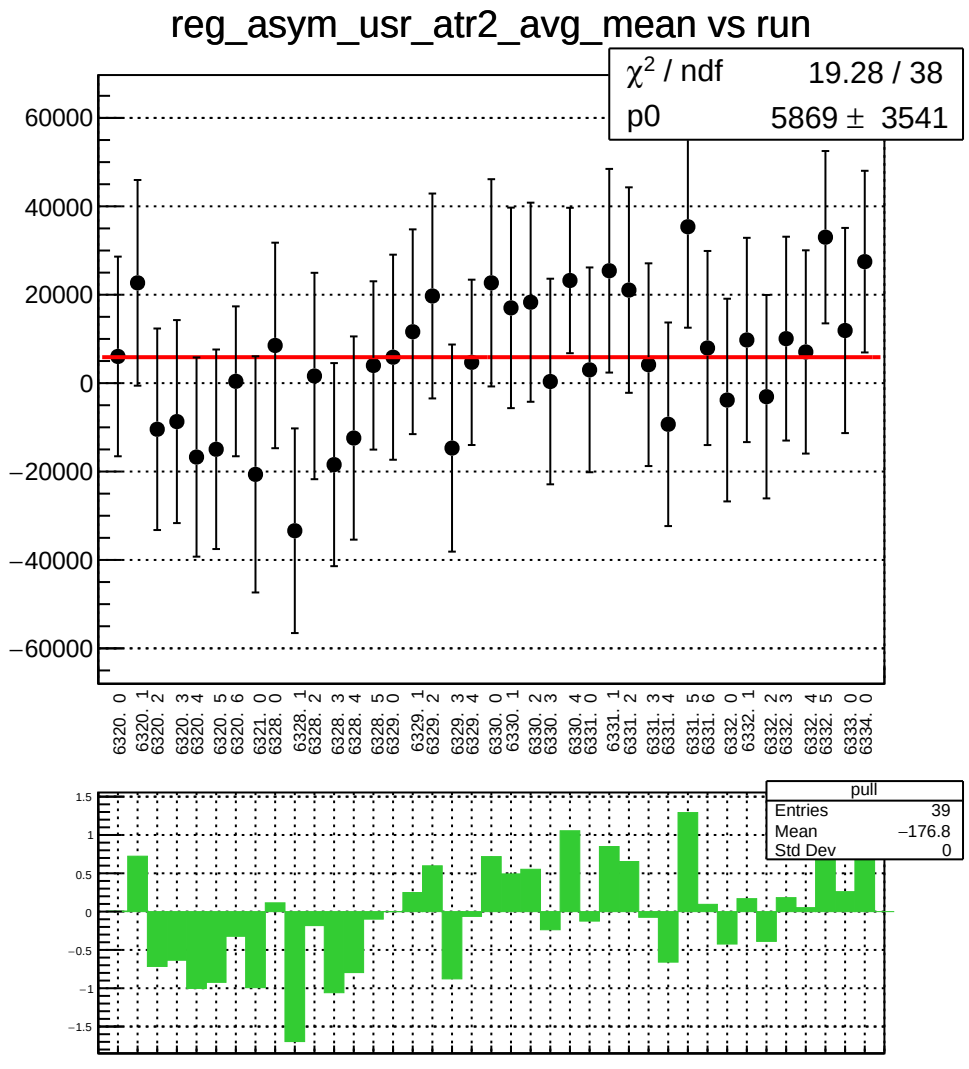

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.39 / 38
p0 0.0272 ± 0.06032
pull
Entries 39
Mean −321
Std Dev 0
pull1D
Entries 39
Mean 0.002828
Std Dev 0.9113

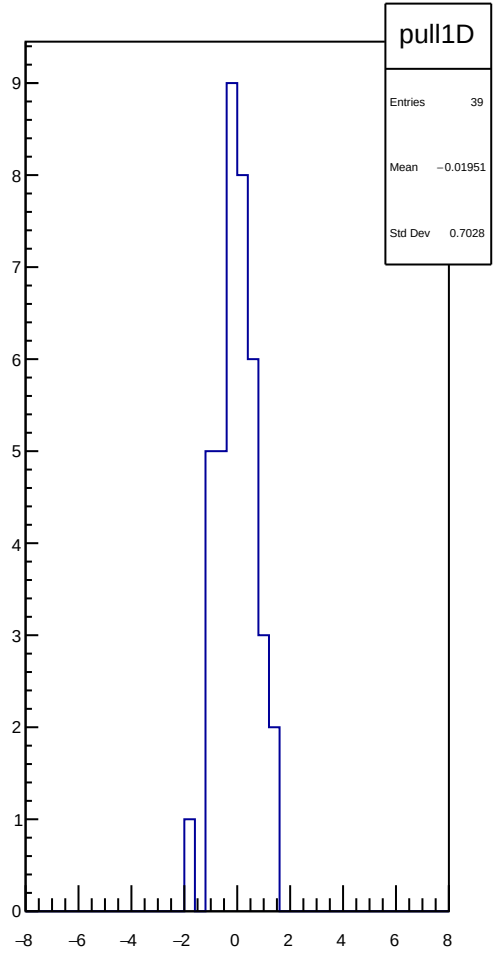

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 38
p0 35.32 ± 0.04265
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

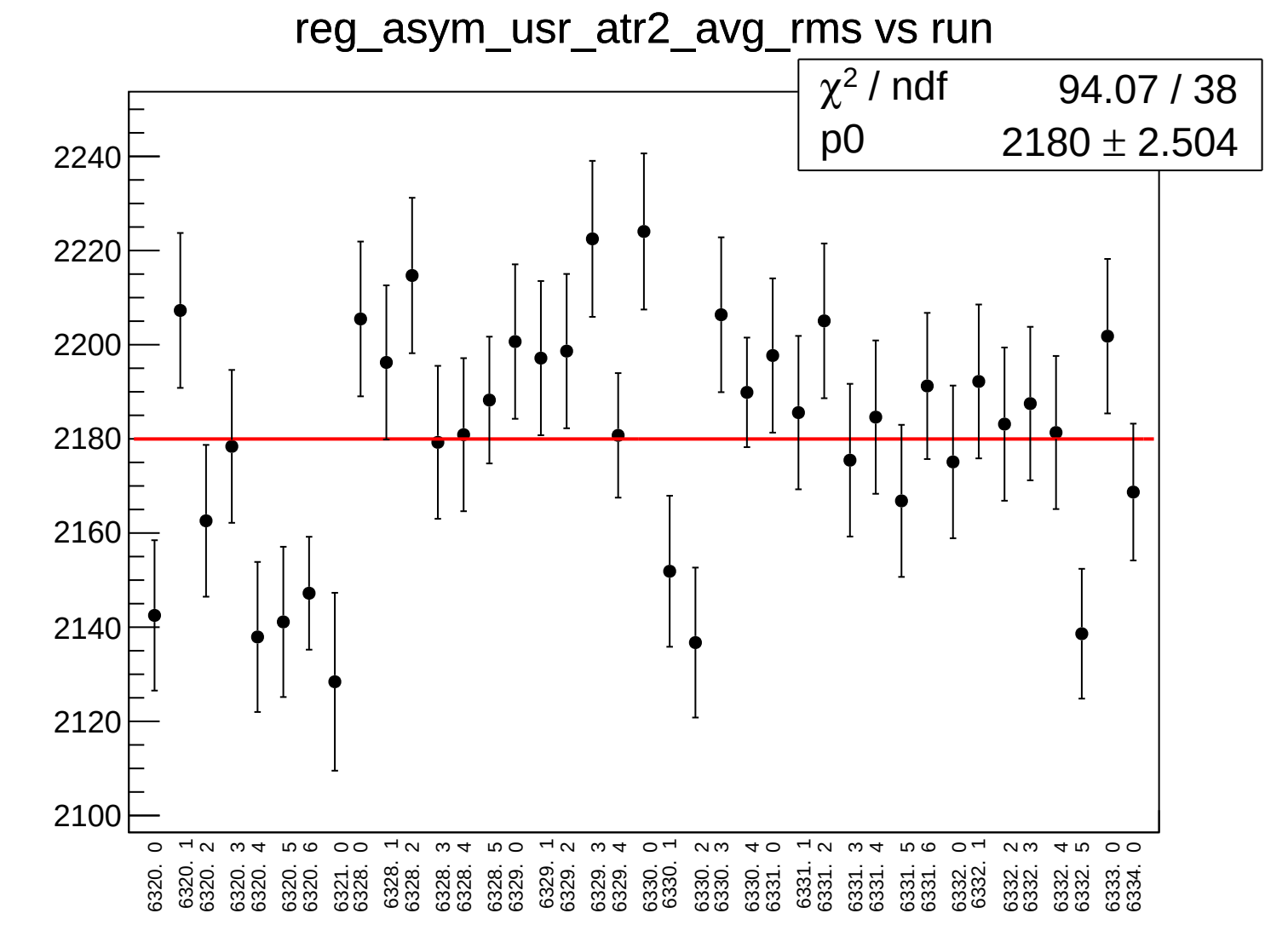

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.12 / 38
p0 −6.282e−14 ± 3.009e−14
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7636
Std Dev 0
2
1
0
−1
−2

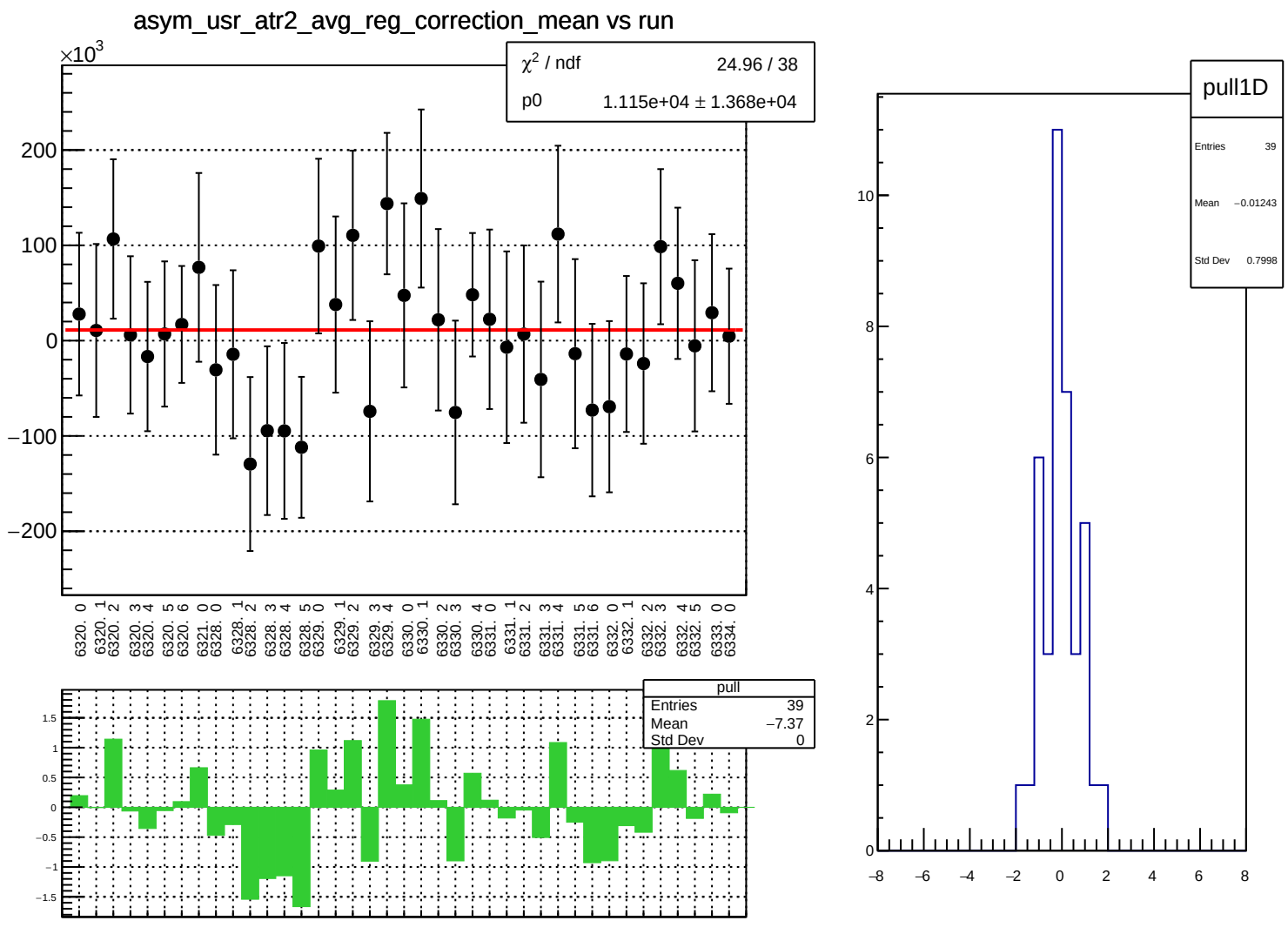

pull1D
Entries 39
Mean −0.0003615
Std Dev 0.9489
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

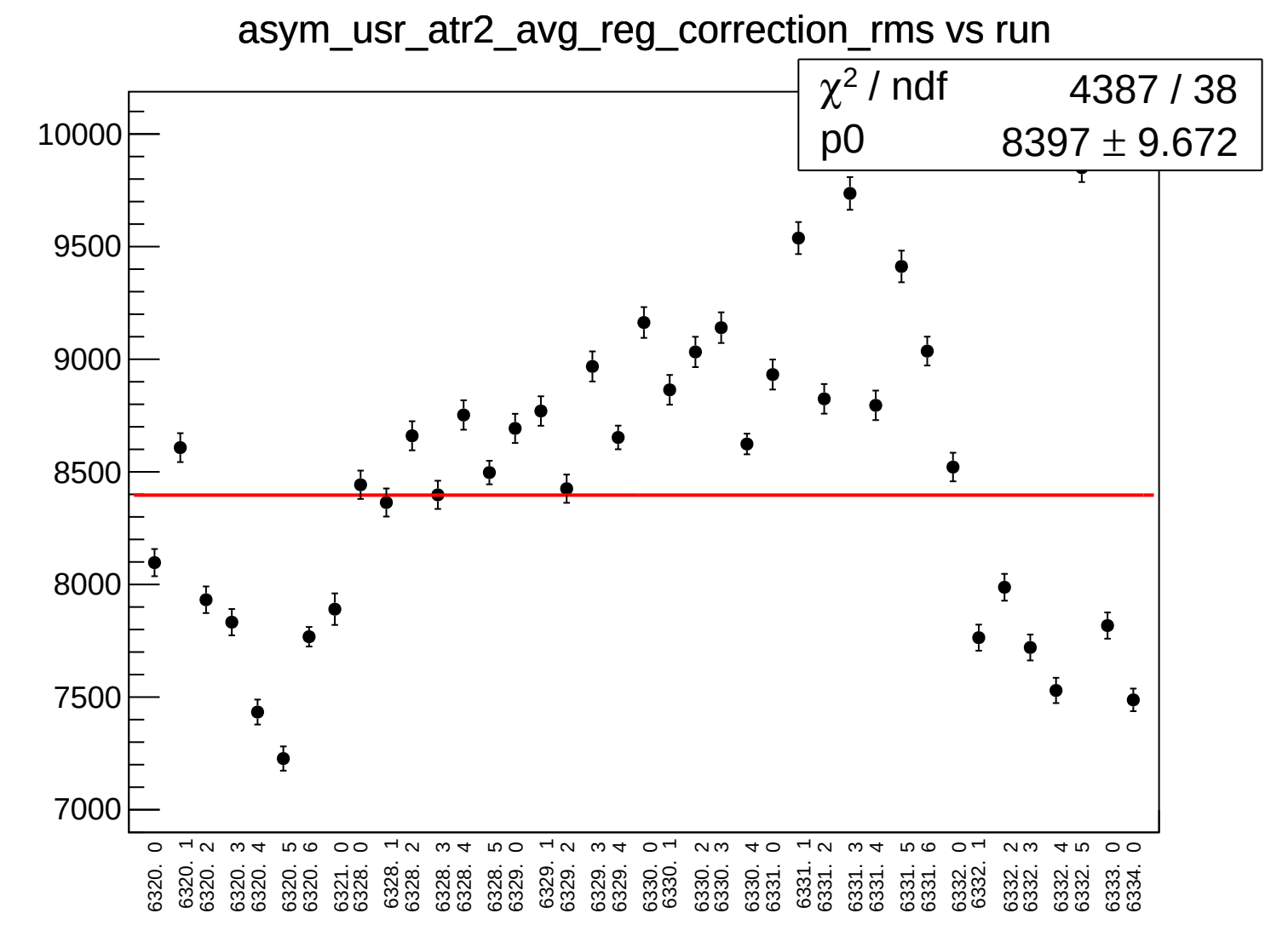

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.492e+05 / 38
p0 1.361e−11 ± 2.128e−14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

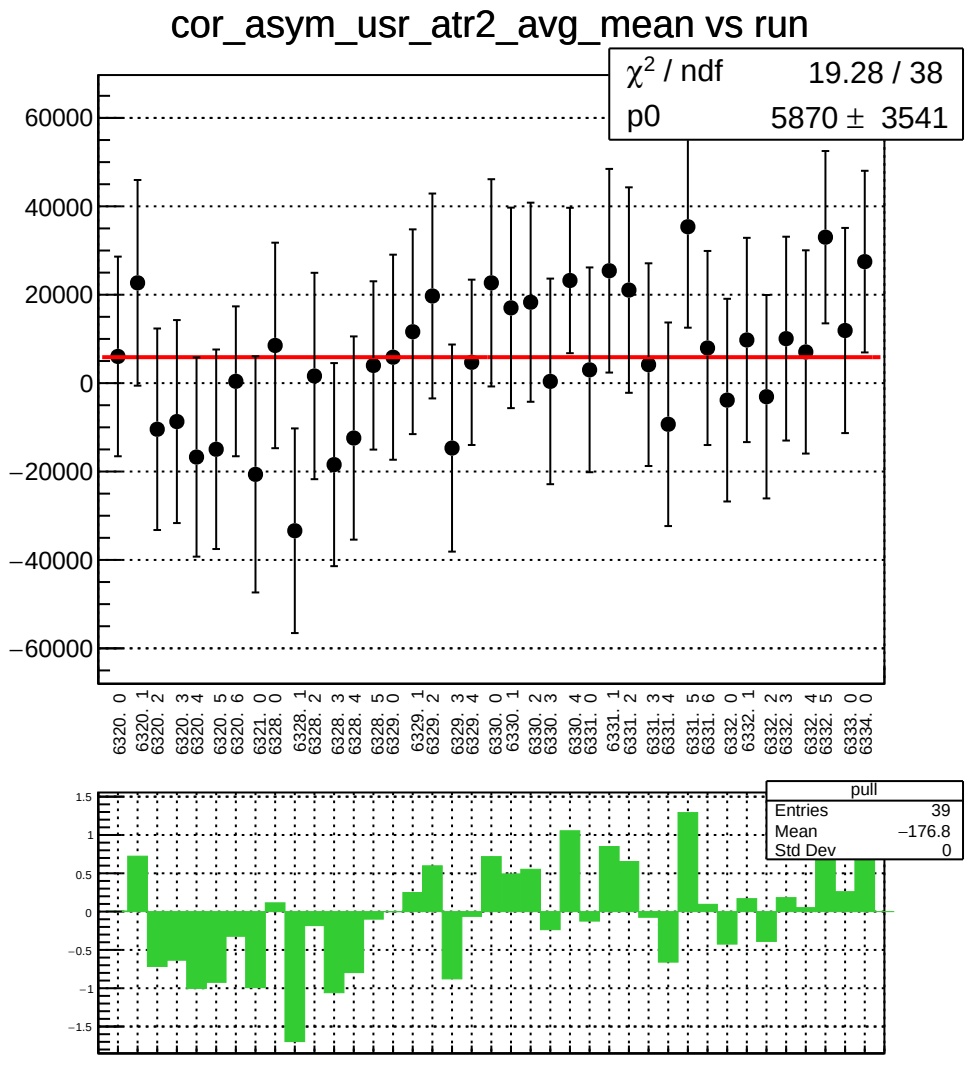

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 19.28 / 38
p0 5869 ± 3541
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −176.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

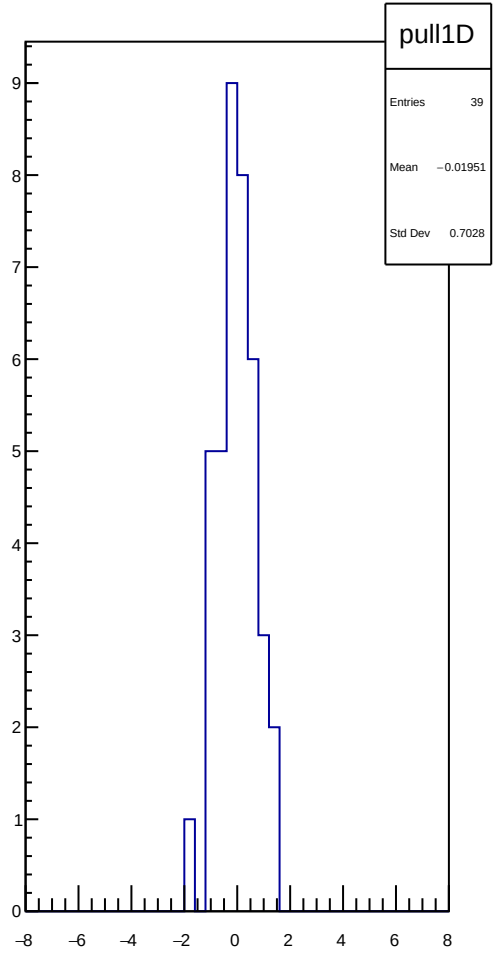

pull1D
Entries 39
Mean −0.01951
Std Dev 0.7028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

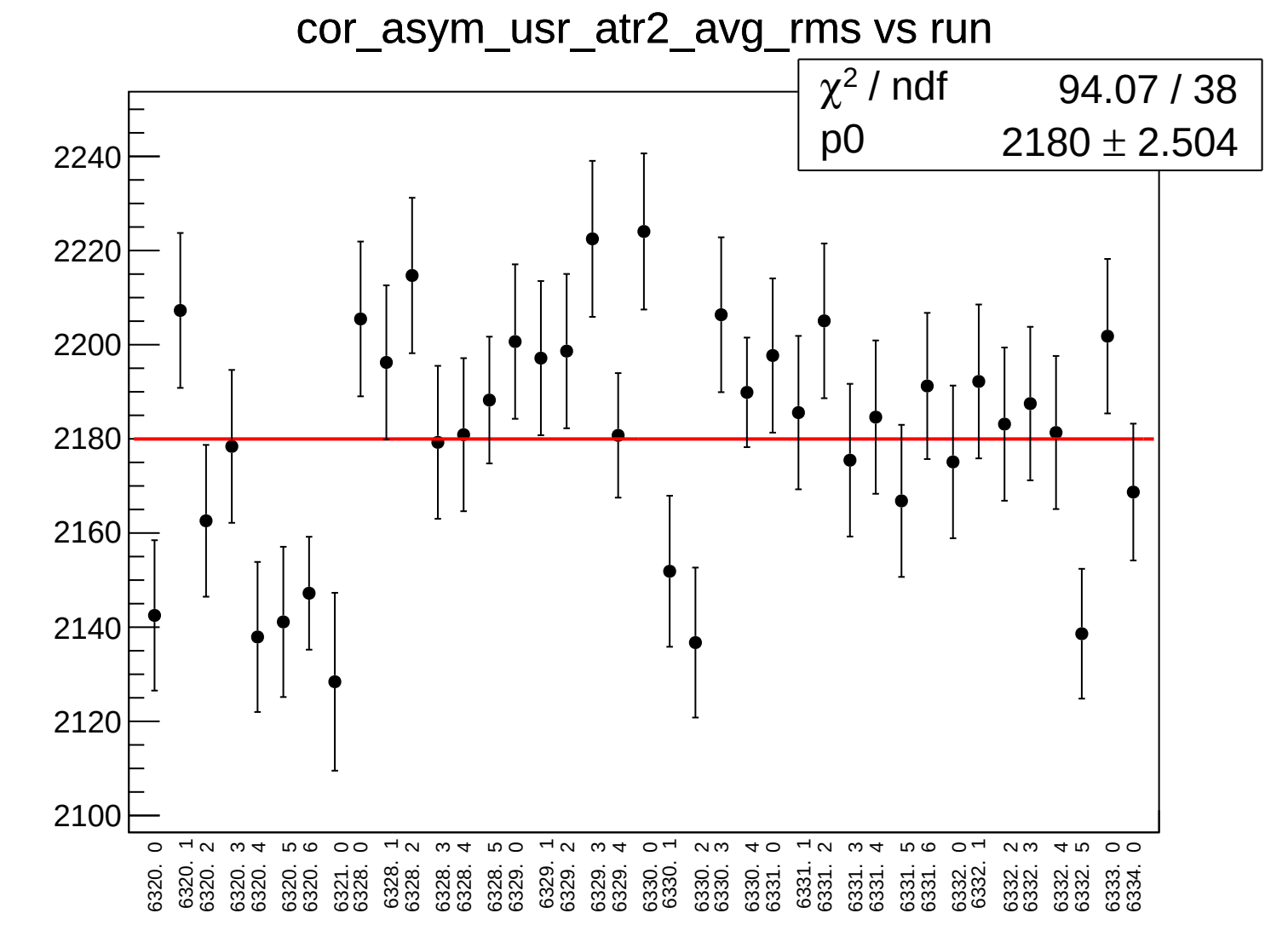

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.07 / 38
p0 2180 ± 2.504
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

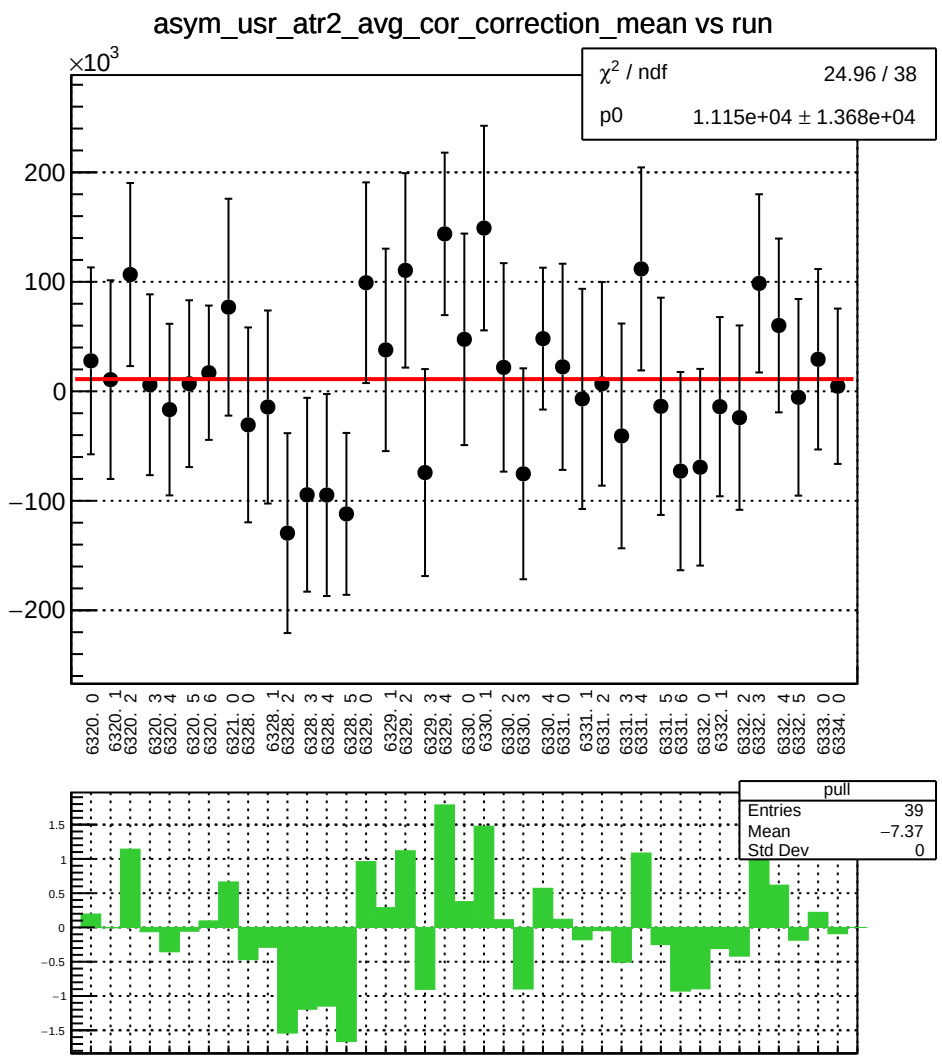

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.96 / 38
p0 1.115e+04 ± 1.368e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01243
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

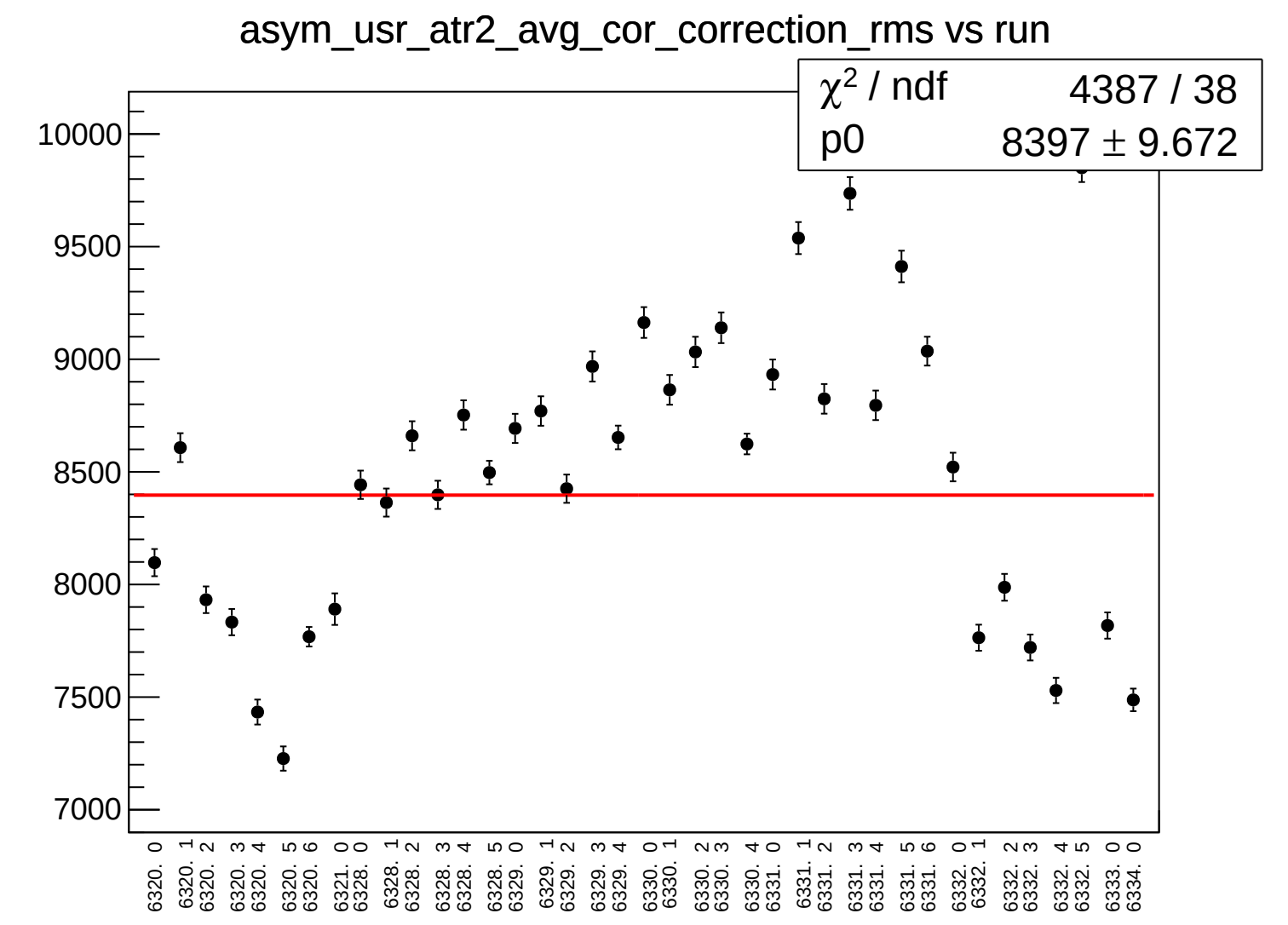

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4387 / 38
p0 8397 ± 9.672
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

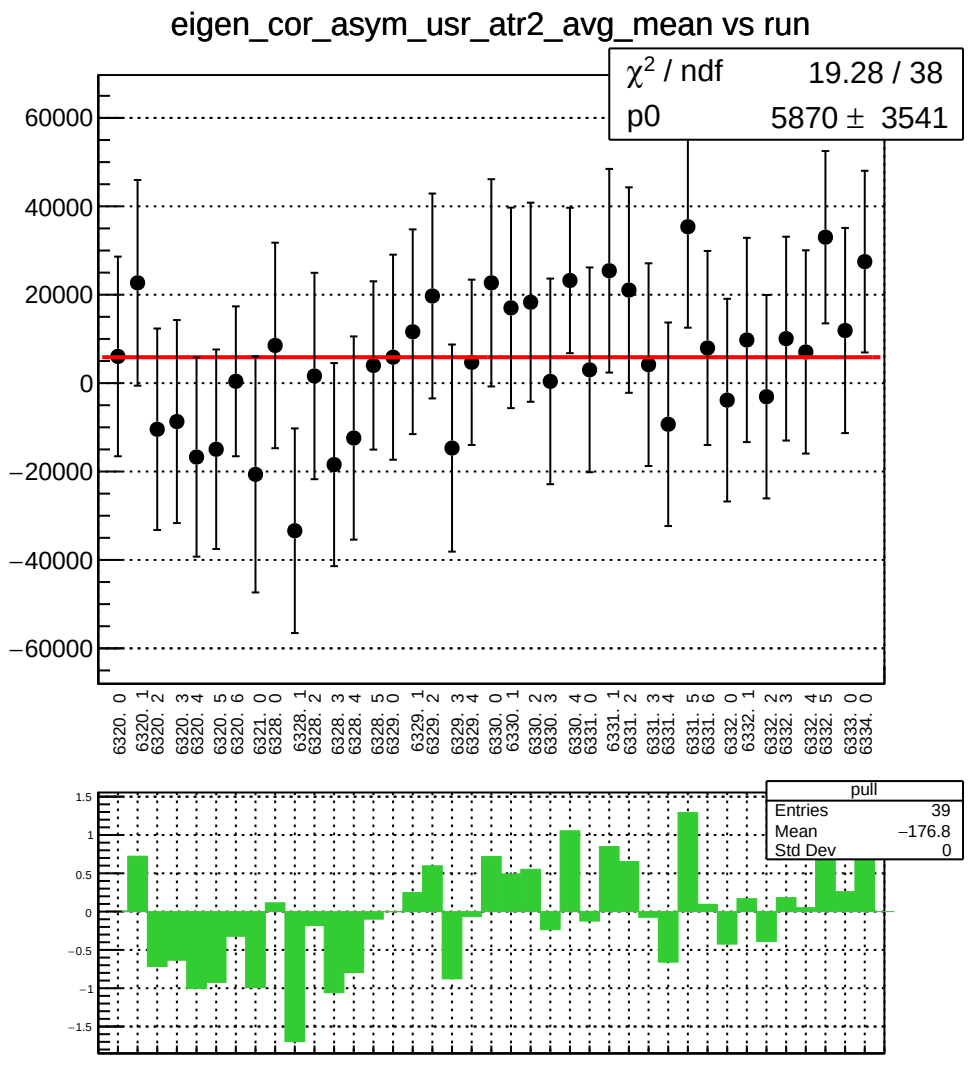

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 19.28 / 38
p0 5870 ± 3541
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −176.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

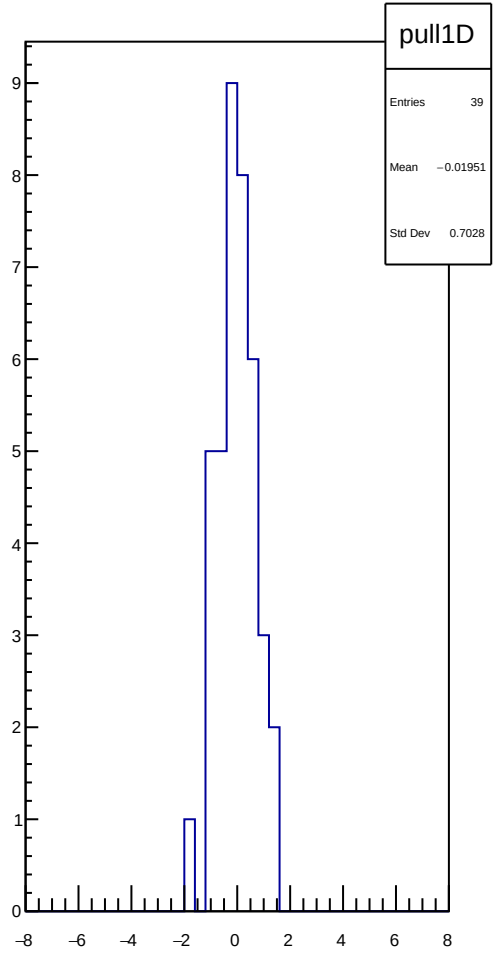

pull1D
Entries 39
Mean −0.01951
Std Dev 0.7028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

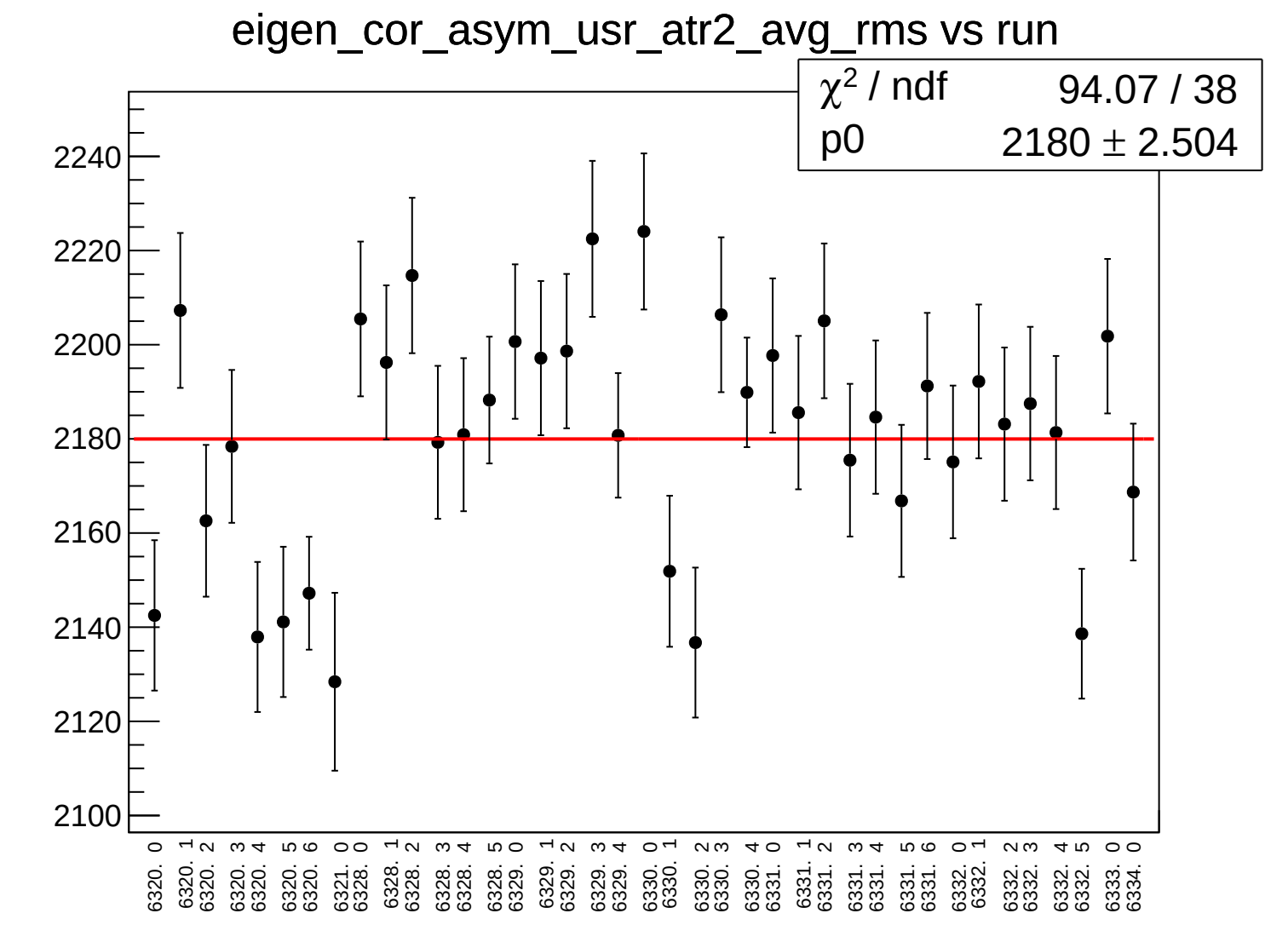

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.07 / 38
p0 2180 ± 2.504
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

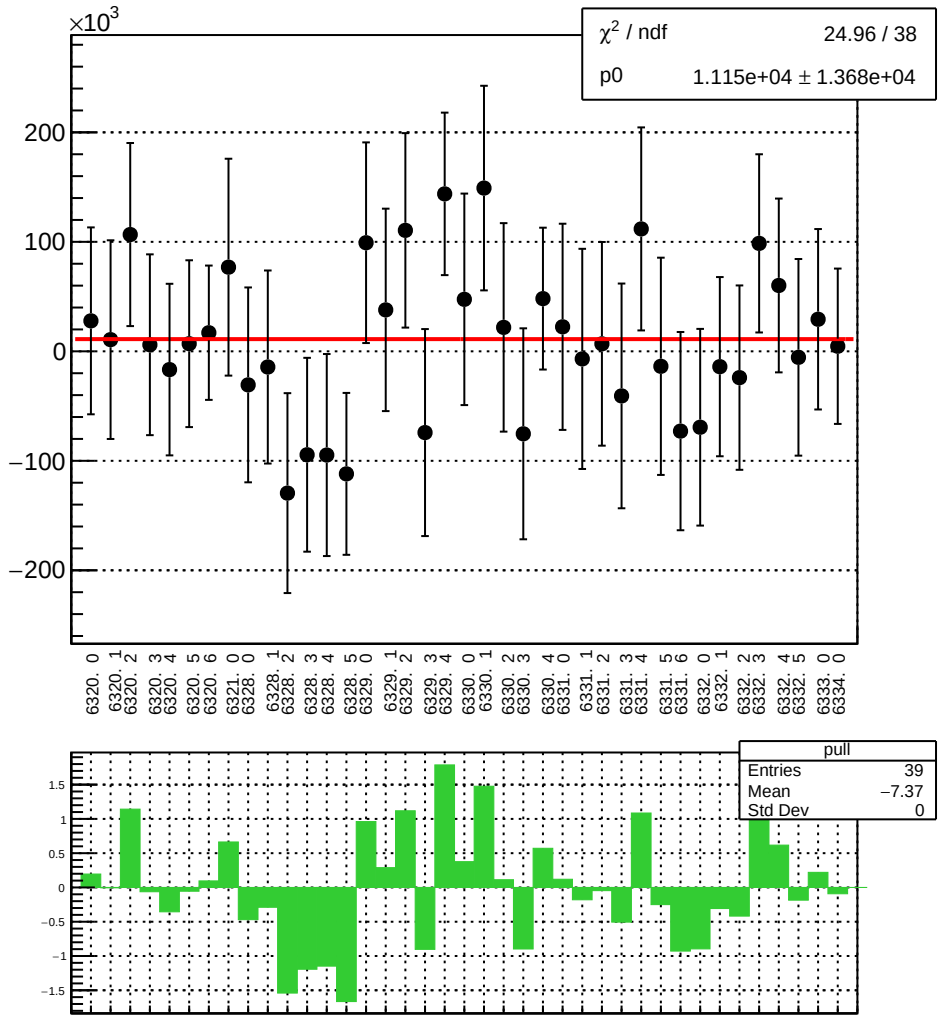

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.96 / 38
p0 1.115e+04 ± 1.368e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01242
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

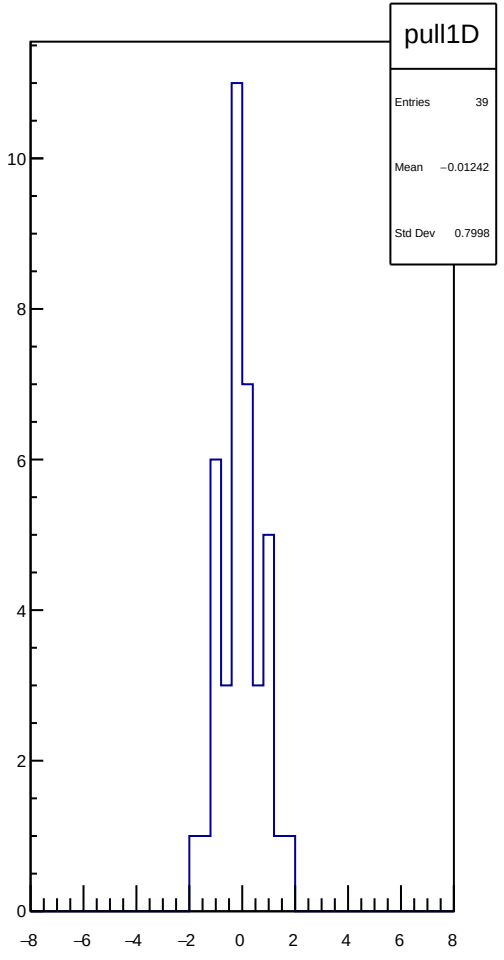

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4387 / 38
p0 8397 ± 9.672
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

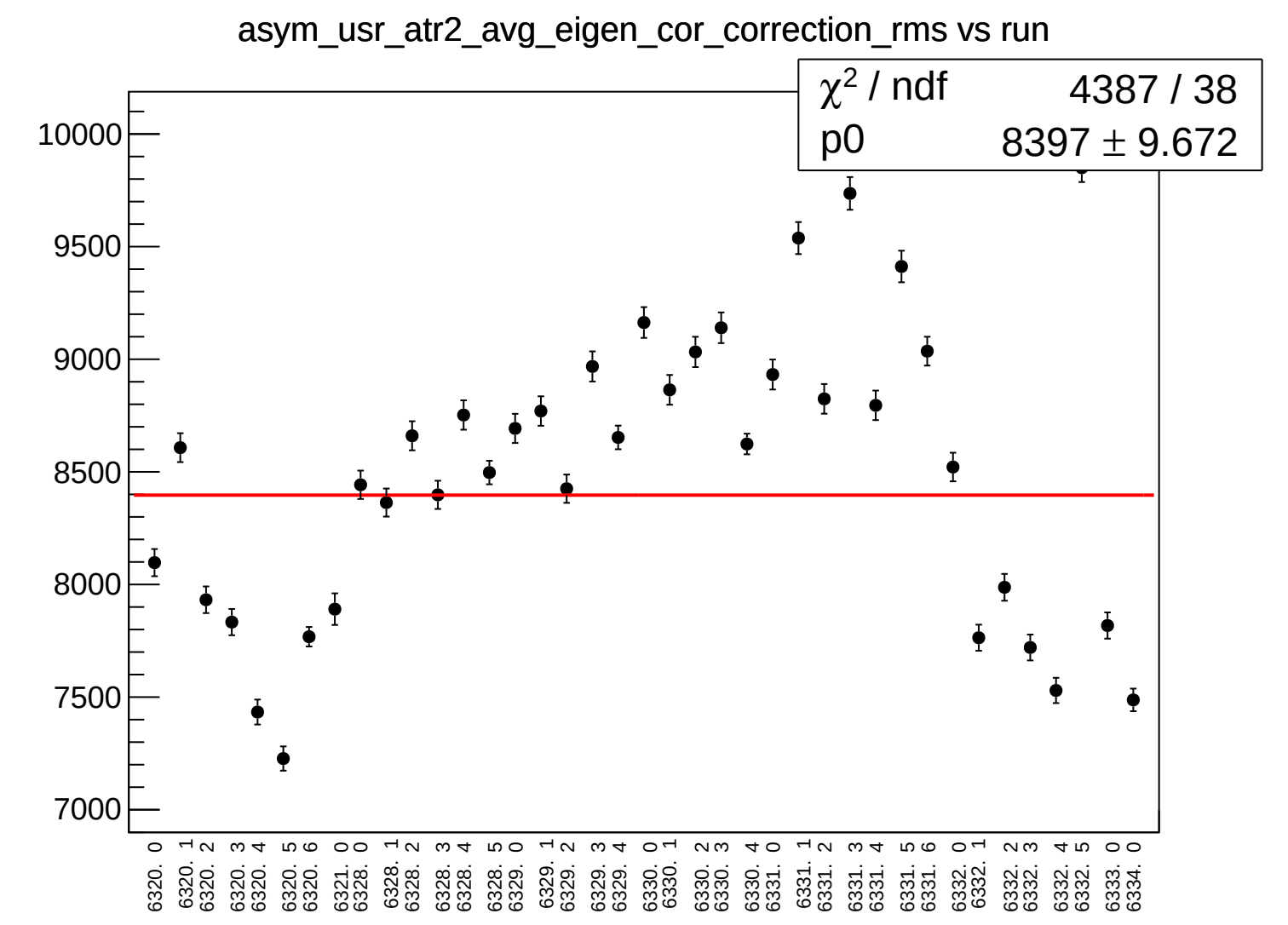

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 19.28 / 38
p0 5870 ± 3541
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −176.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

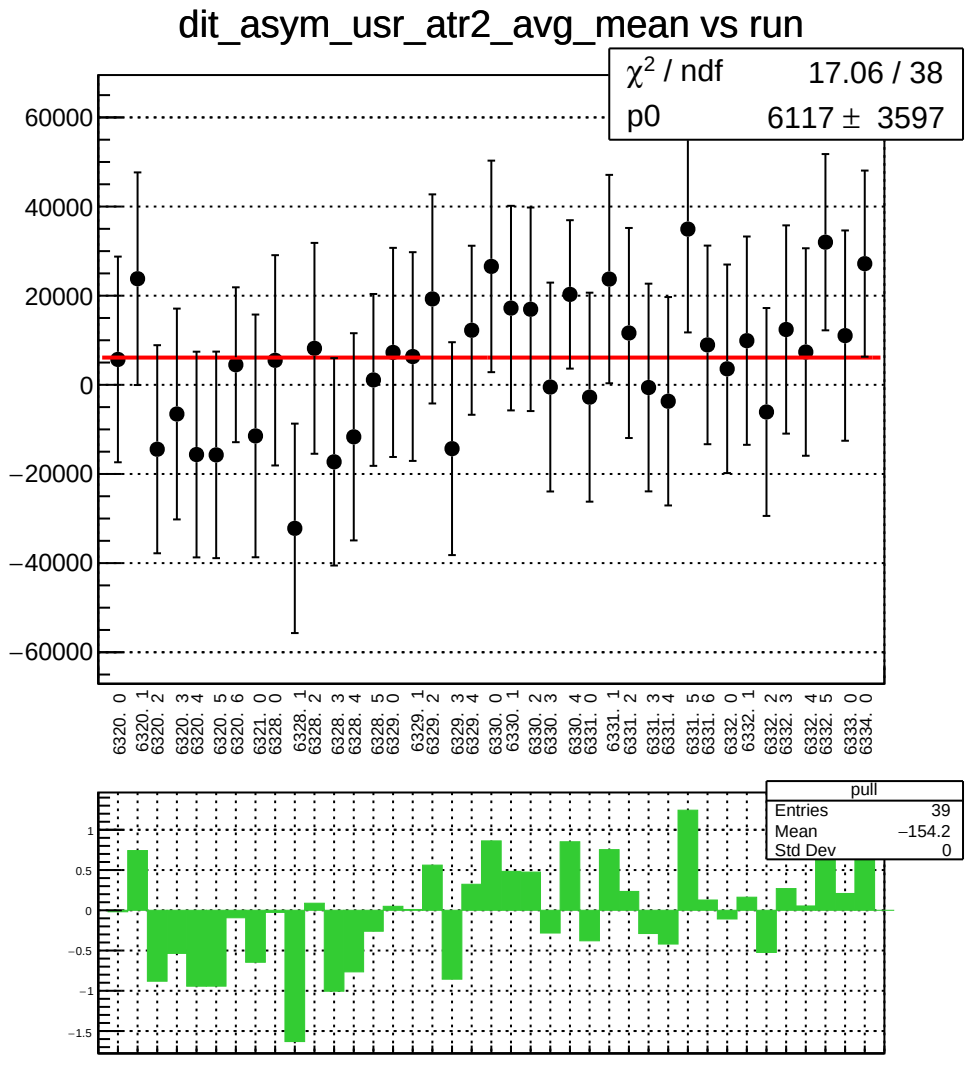

pull1D
Entries 39
Mean −0.01951
Std Dev 0.7028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

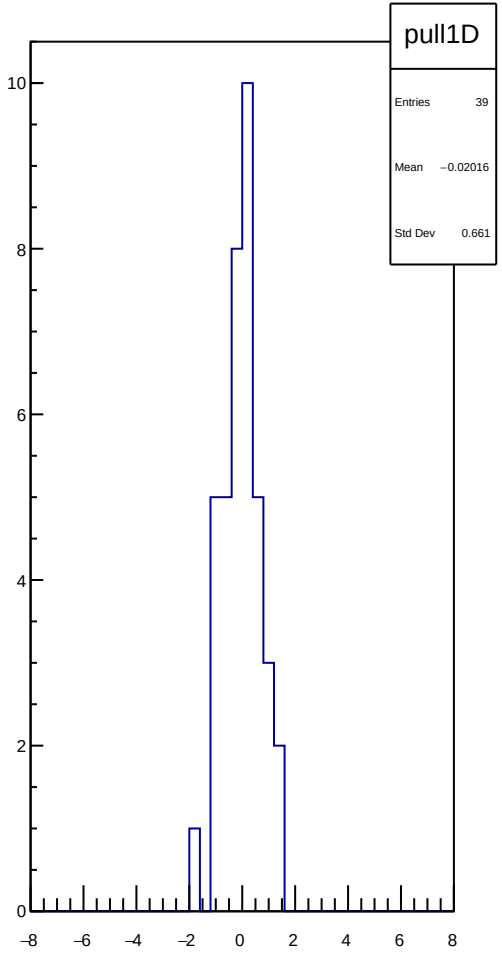

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.07 / 38
p0 2180 ± 2.504
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

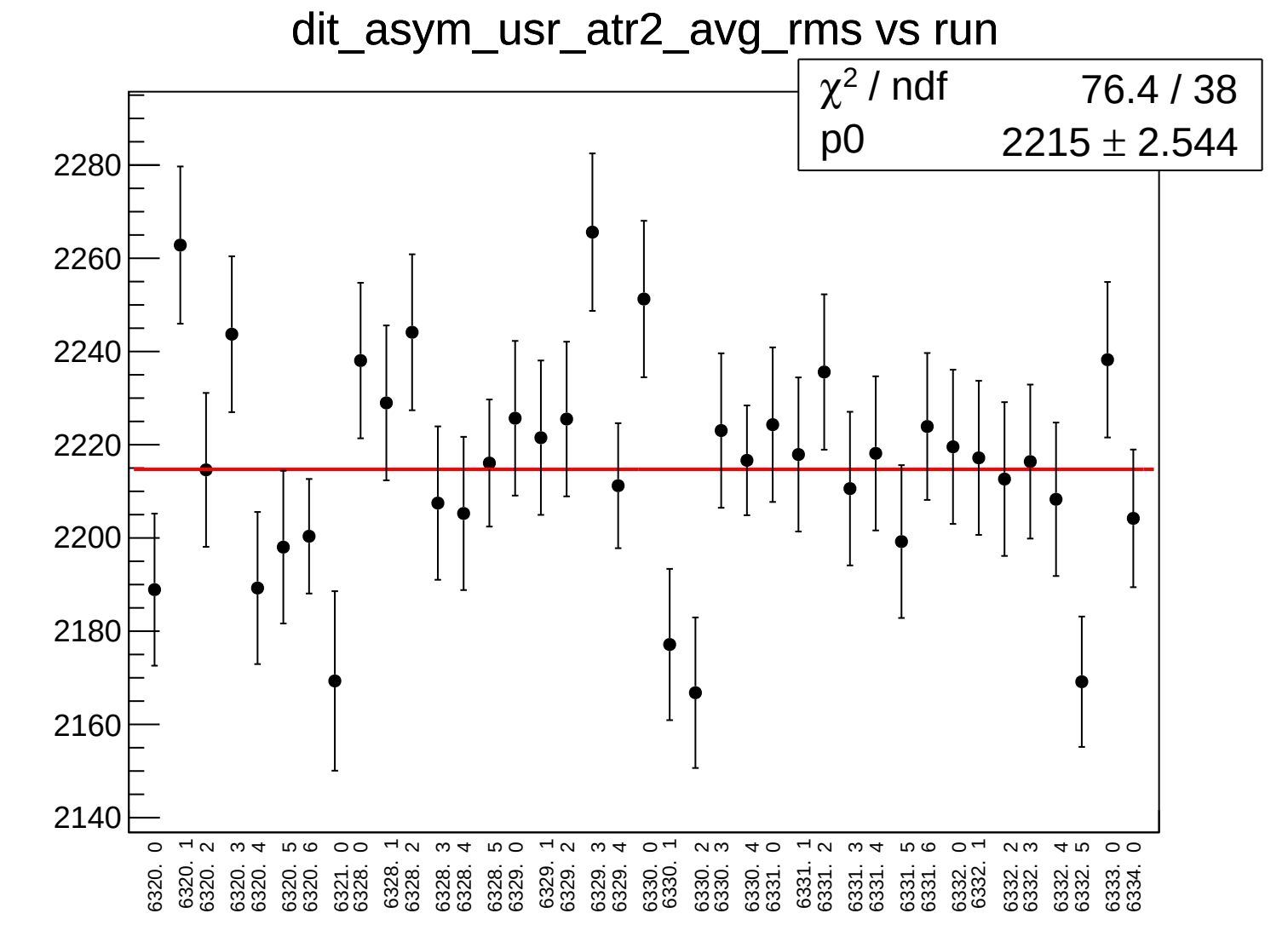

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.96 / 38
p0 1.115e+04 ± 1.368e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

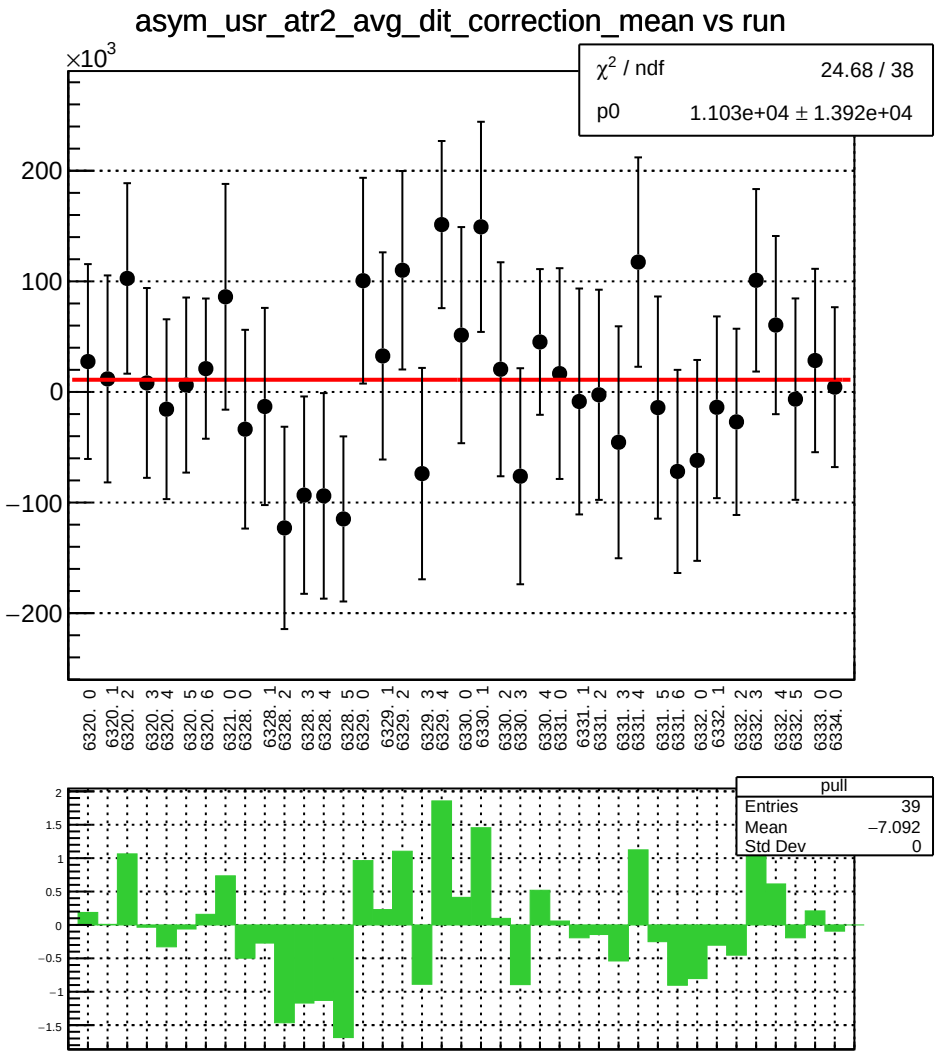

pull1D
Entries 39
Mean −0.01242
Std Dev 0.7998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

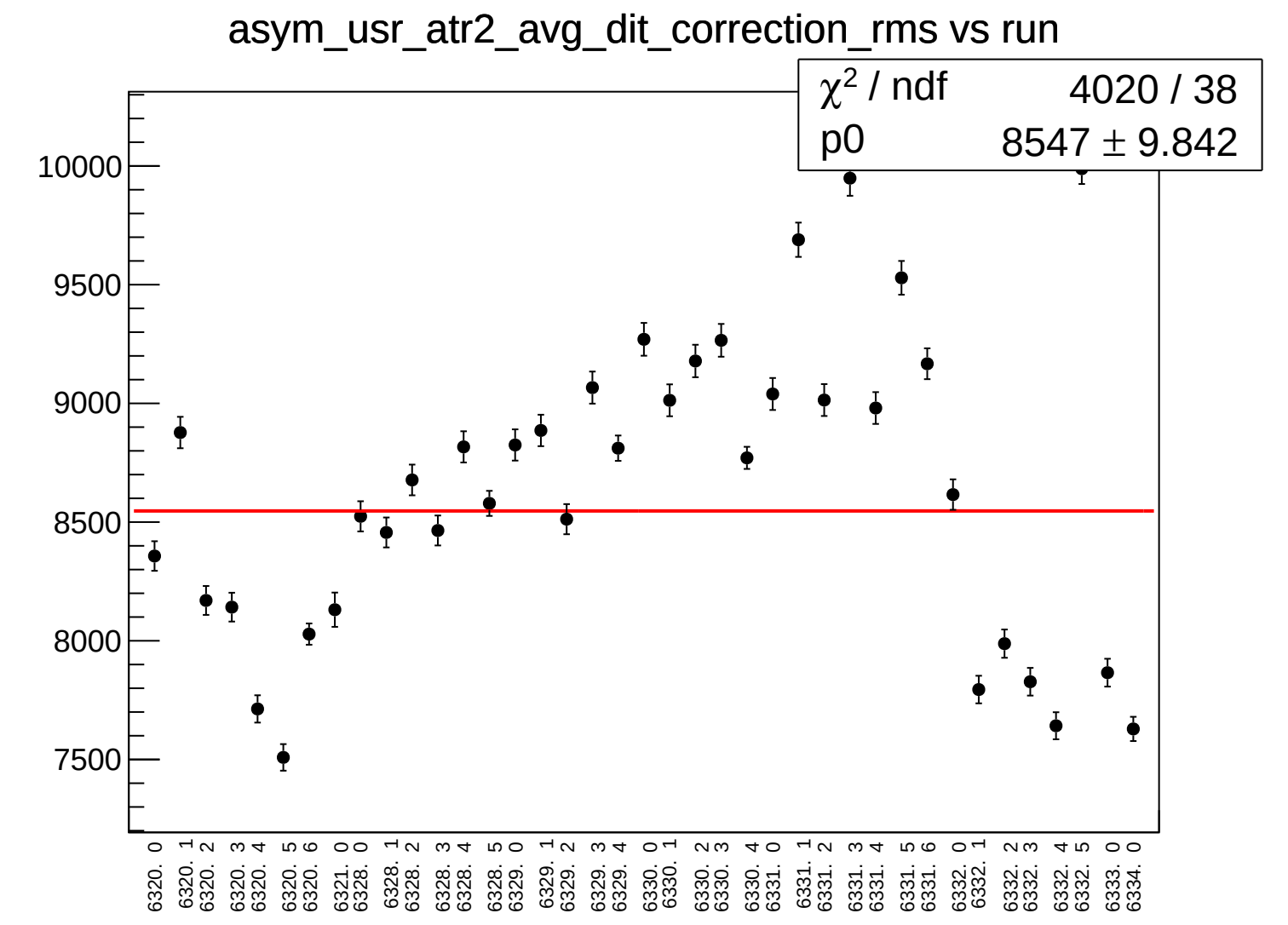

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4387 / 38
p0 8397 ± 9.672
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

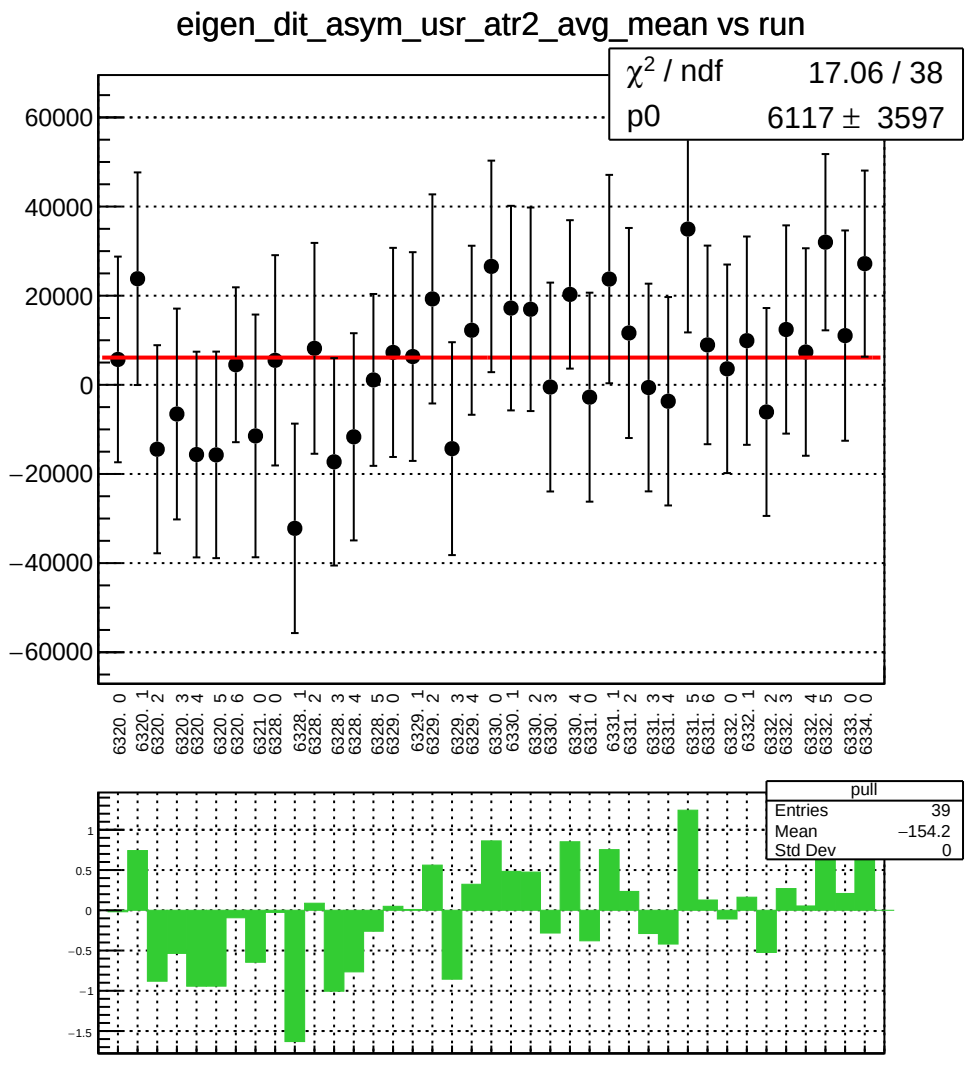

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 17.06 / 38
p0 6117 ± 3597
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −154.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

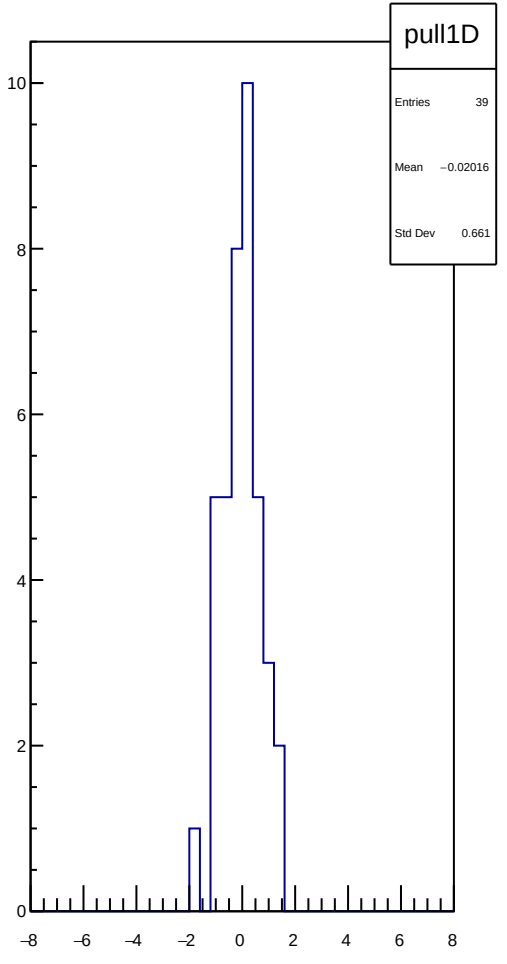

pull1D
Entries 39
Mean −0.02016
Std Dev 0.661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

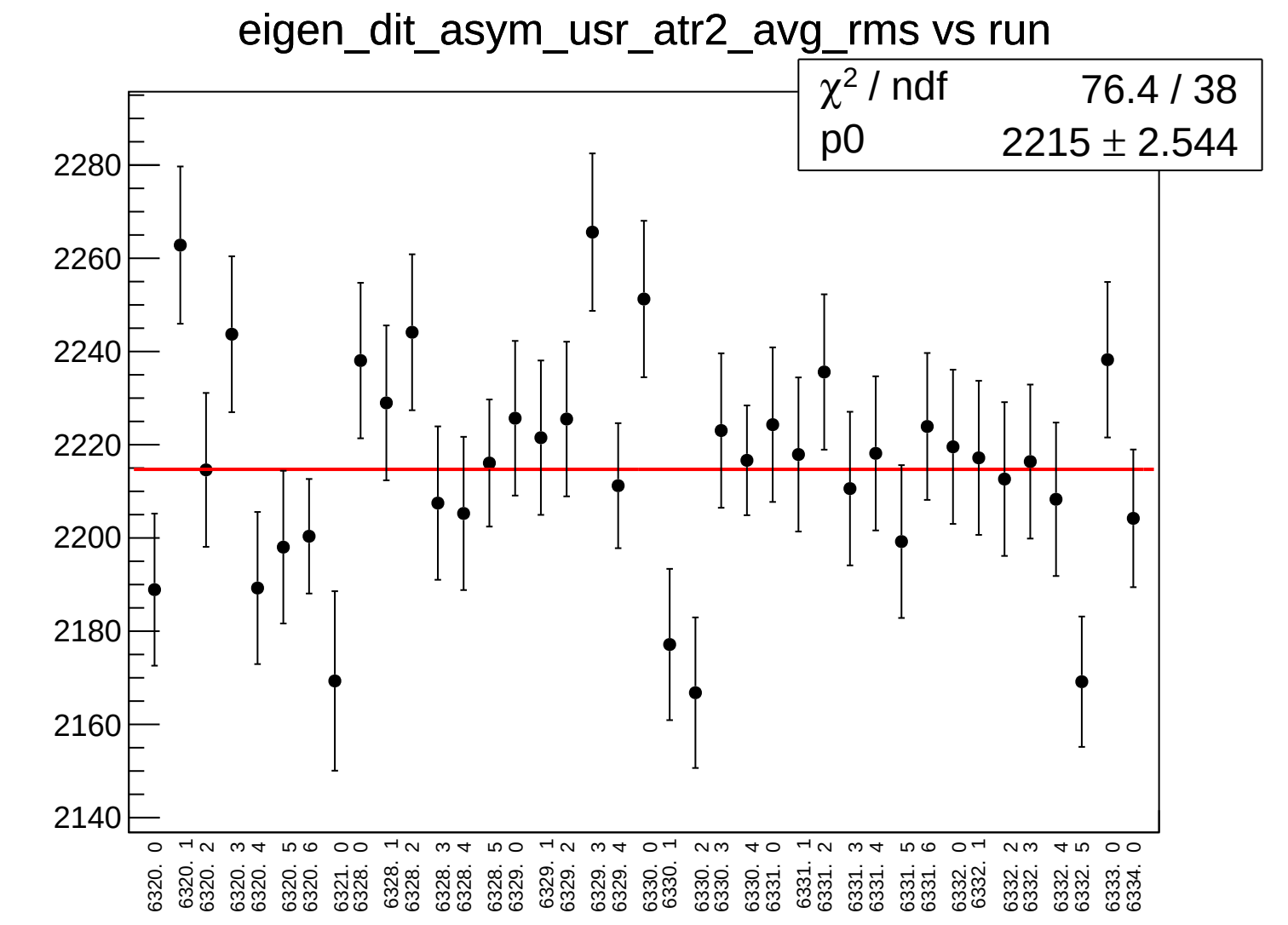

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 76.4 / 38
p0 2215 ± 2.544
2280
2260
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

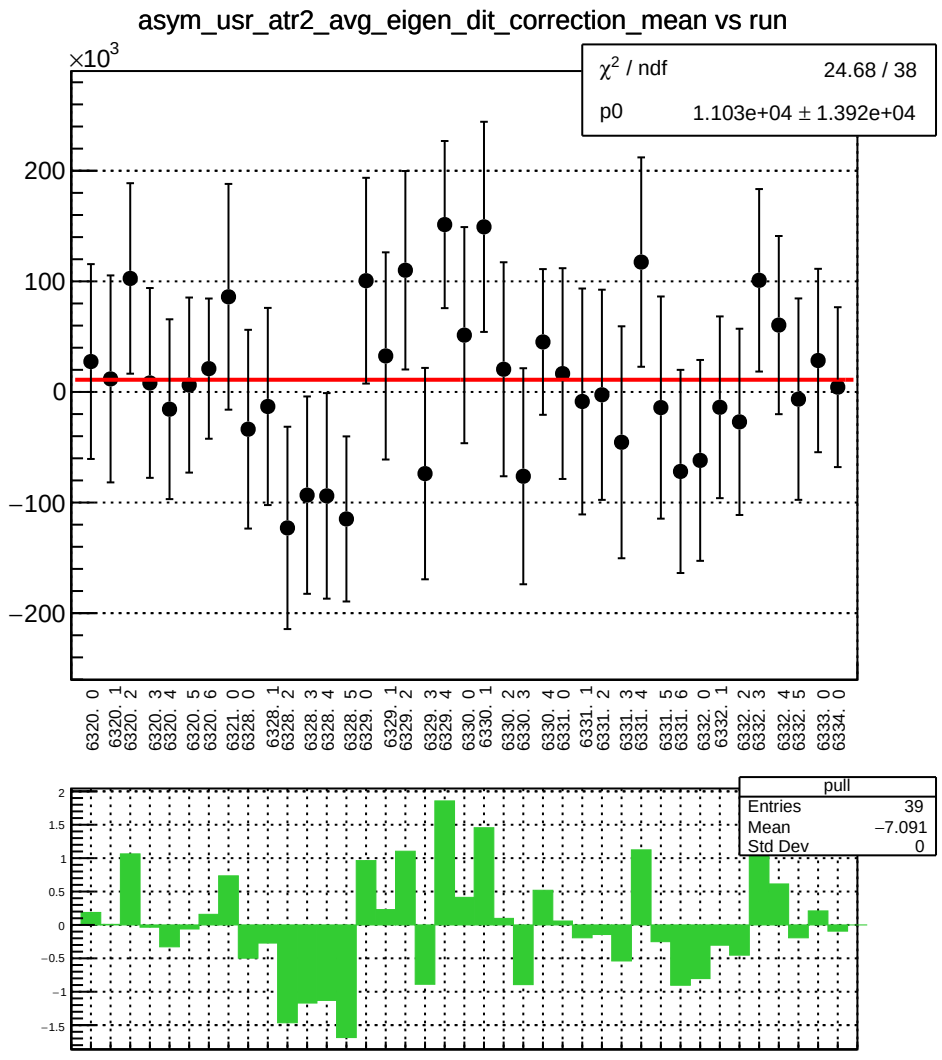

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.68 / 38
p0 1.103e+04 ± 1.392e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.092
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01043
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

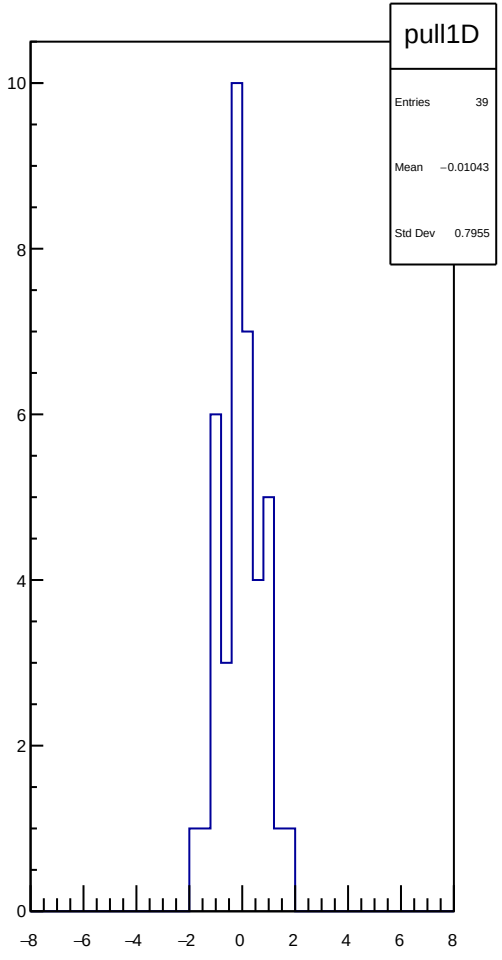

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4020 / 38
p0 8547 ± 9.842
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

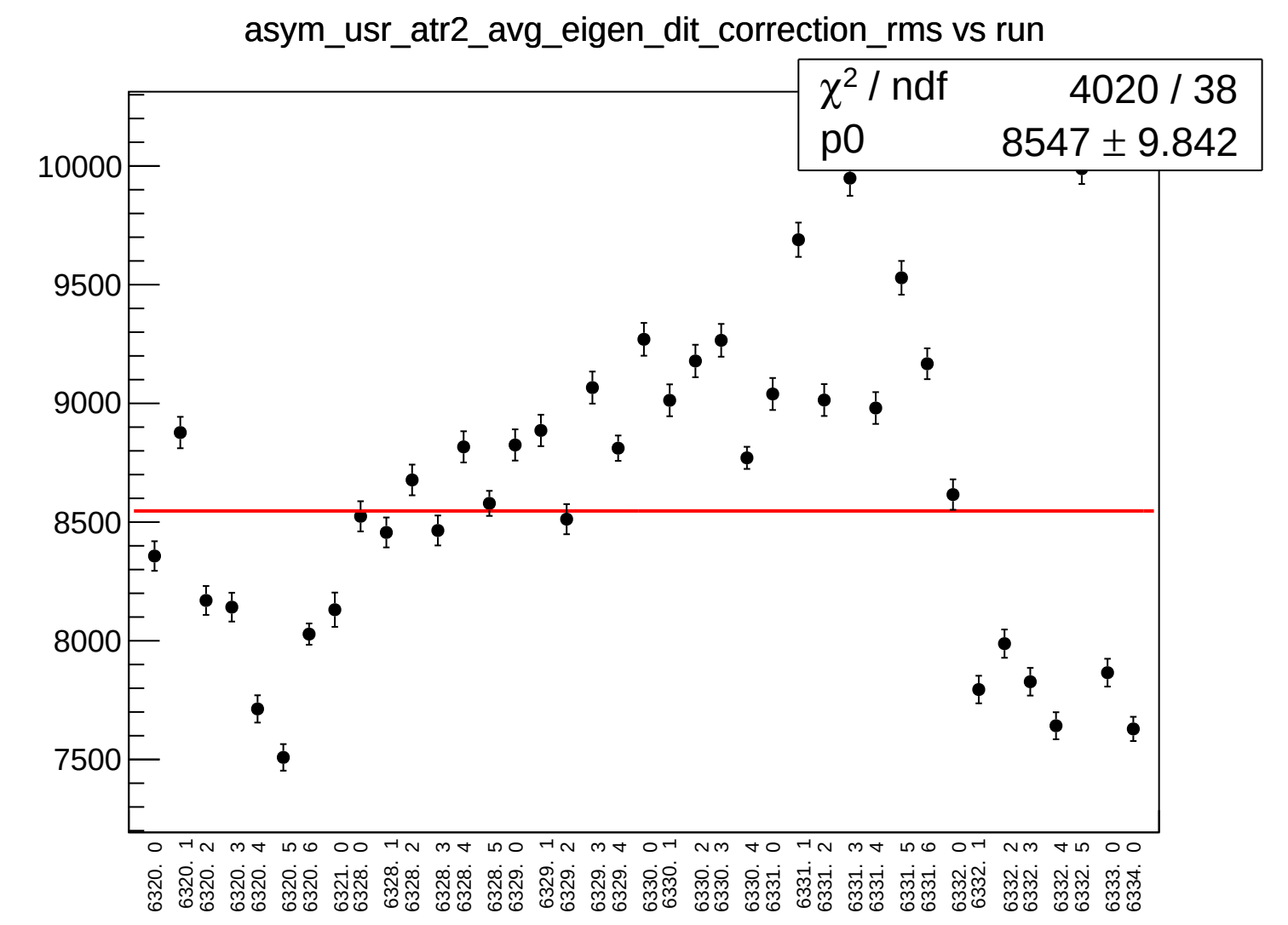

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 17.06 / 38
p0 6117 ± 3597
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −154.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

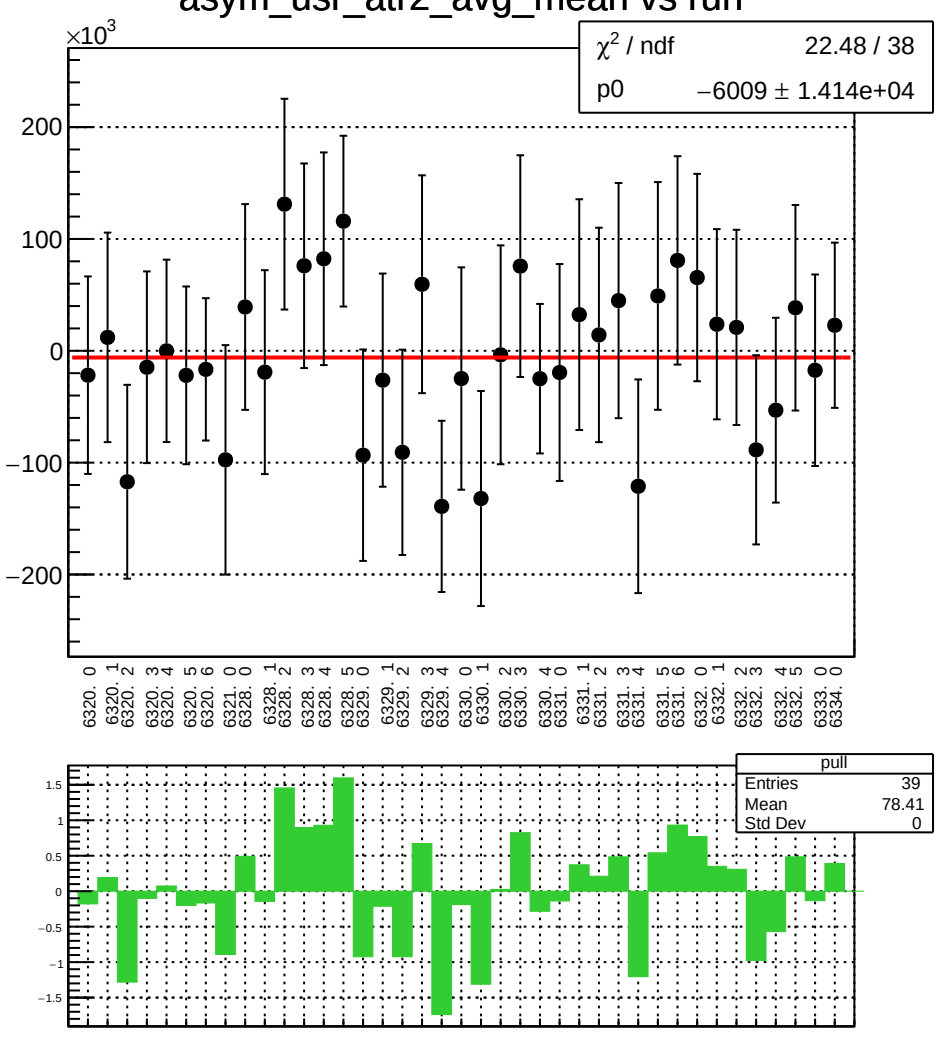

pull1D
Entries 39
Mean −0.02016
Std Dev 0.661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

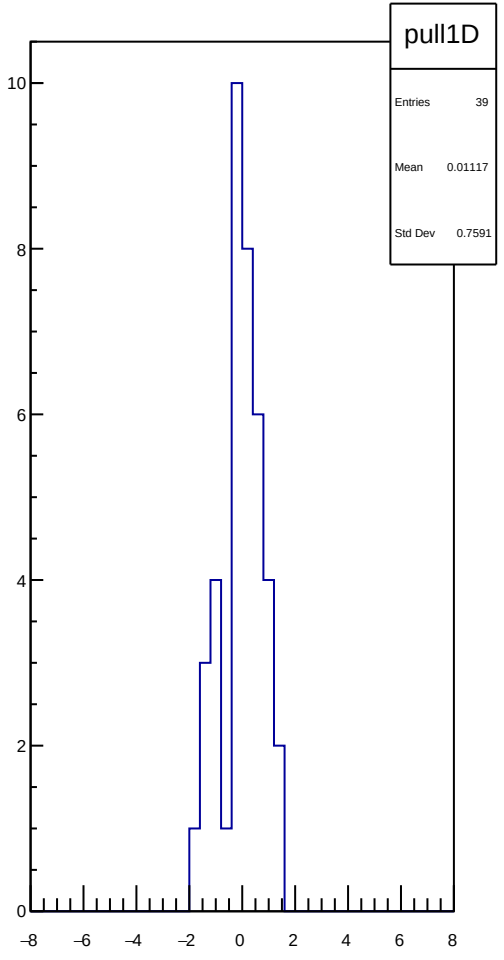

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 76.4 / 38
p0 2215 ± 2.544
2280
2260
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

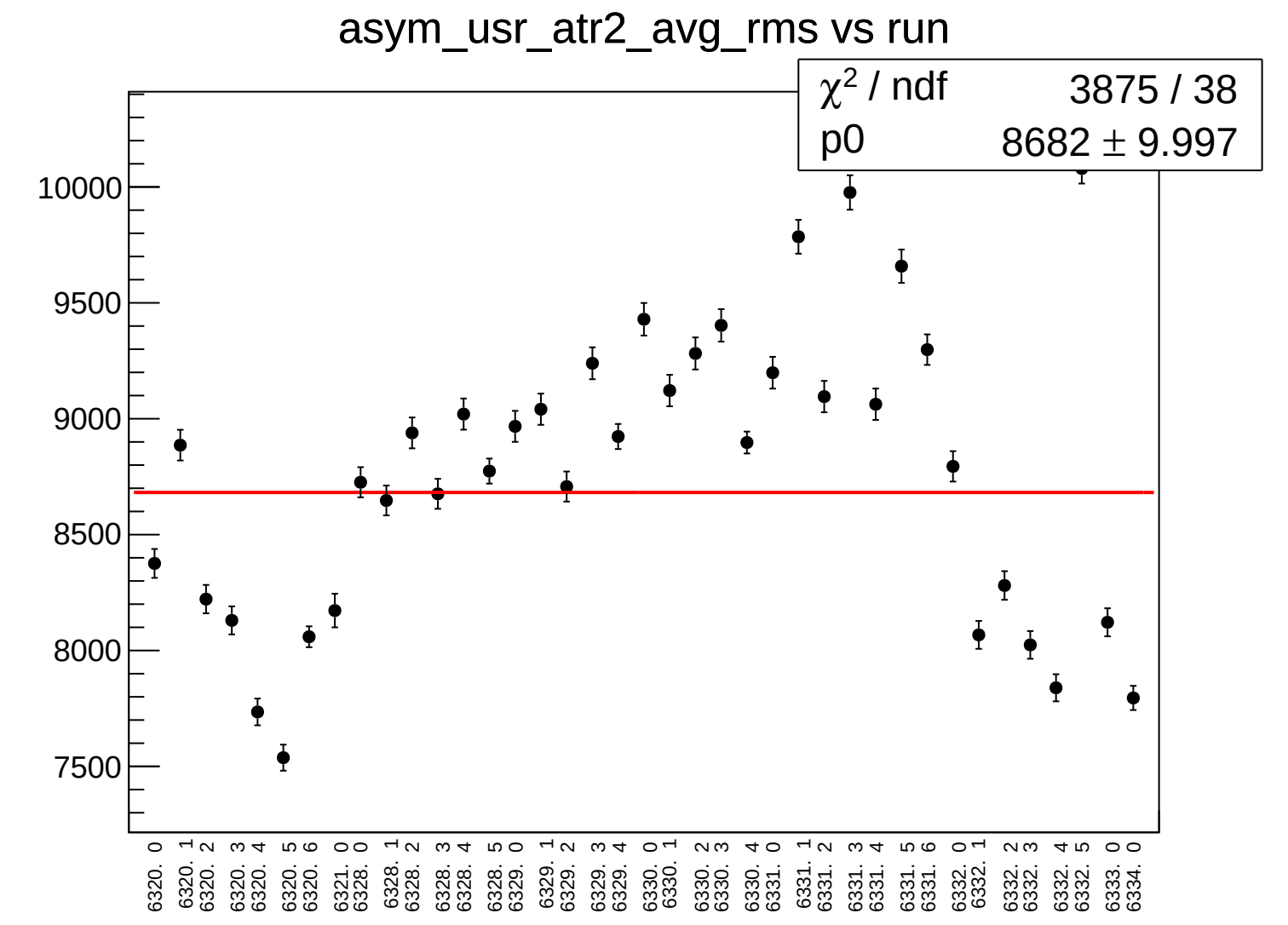

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.68 / 38
p0 1.103e+04 ± 1.392e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

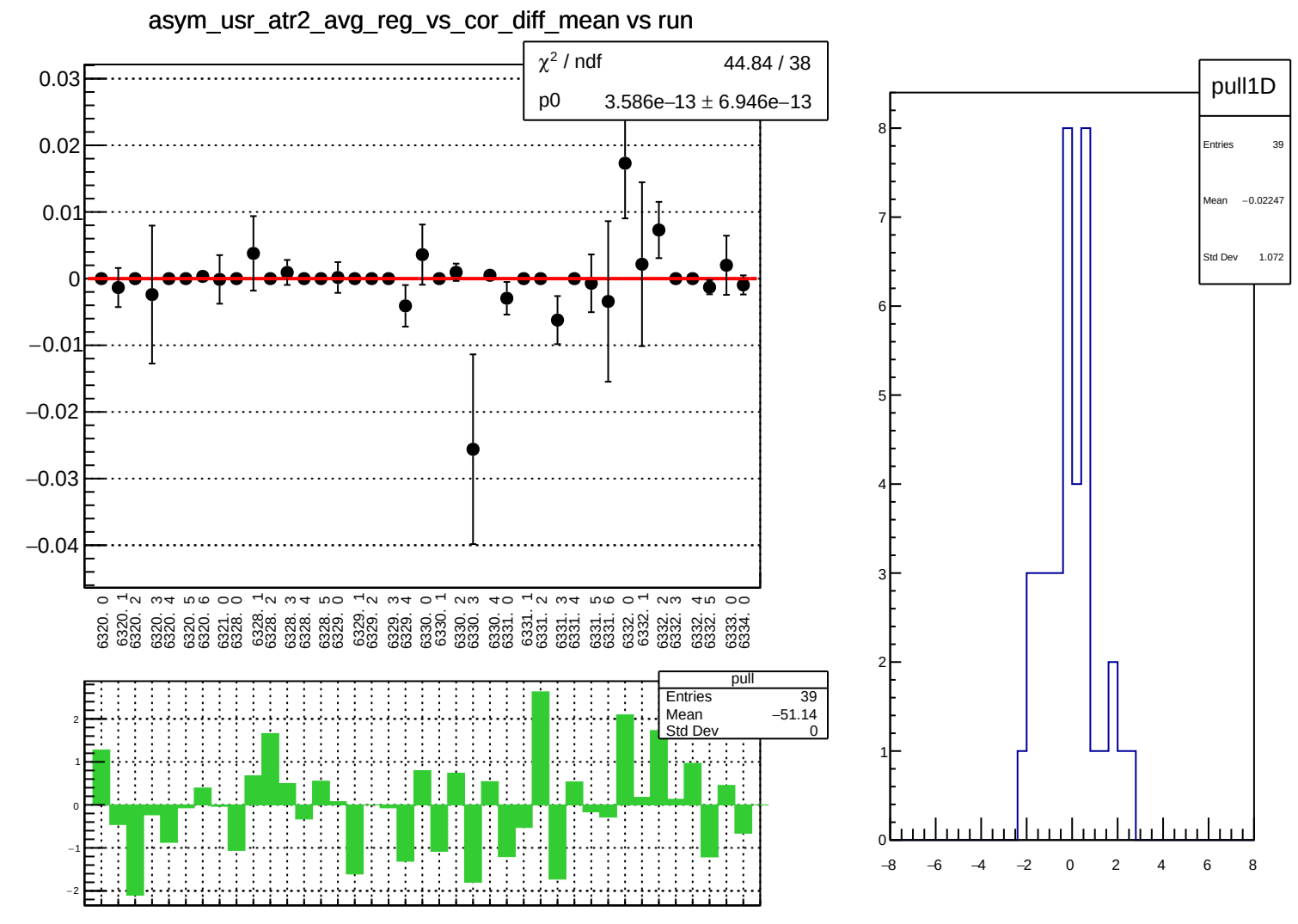

pull1D
Entries 39
Mean −0.01043
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

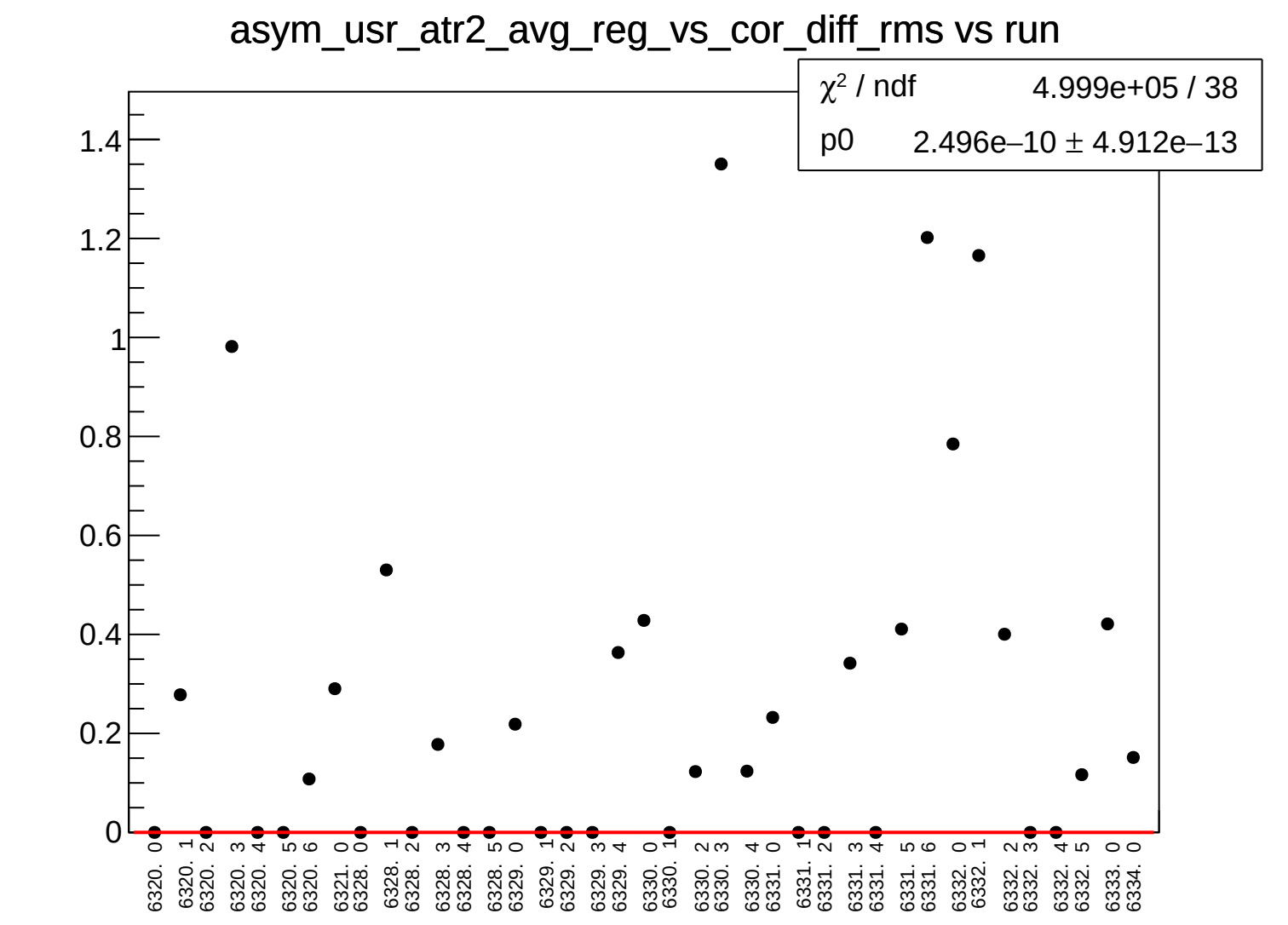

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4020 / 38
p0 8547 ± 9.842
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

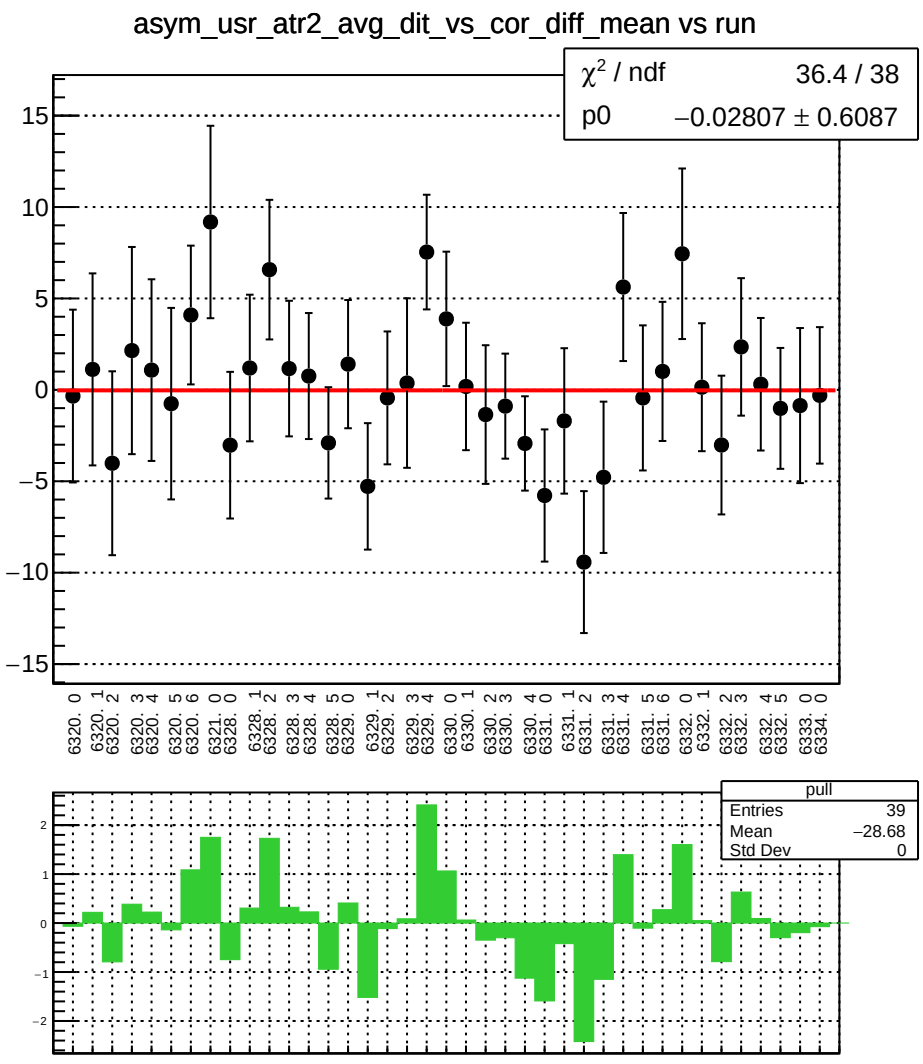

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 22.48 / 38
p0 −6009 ± 1.414e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 78.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

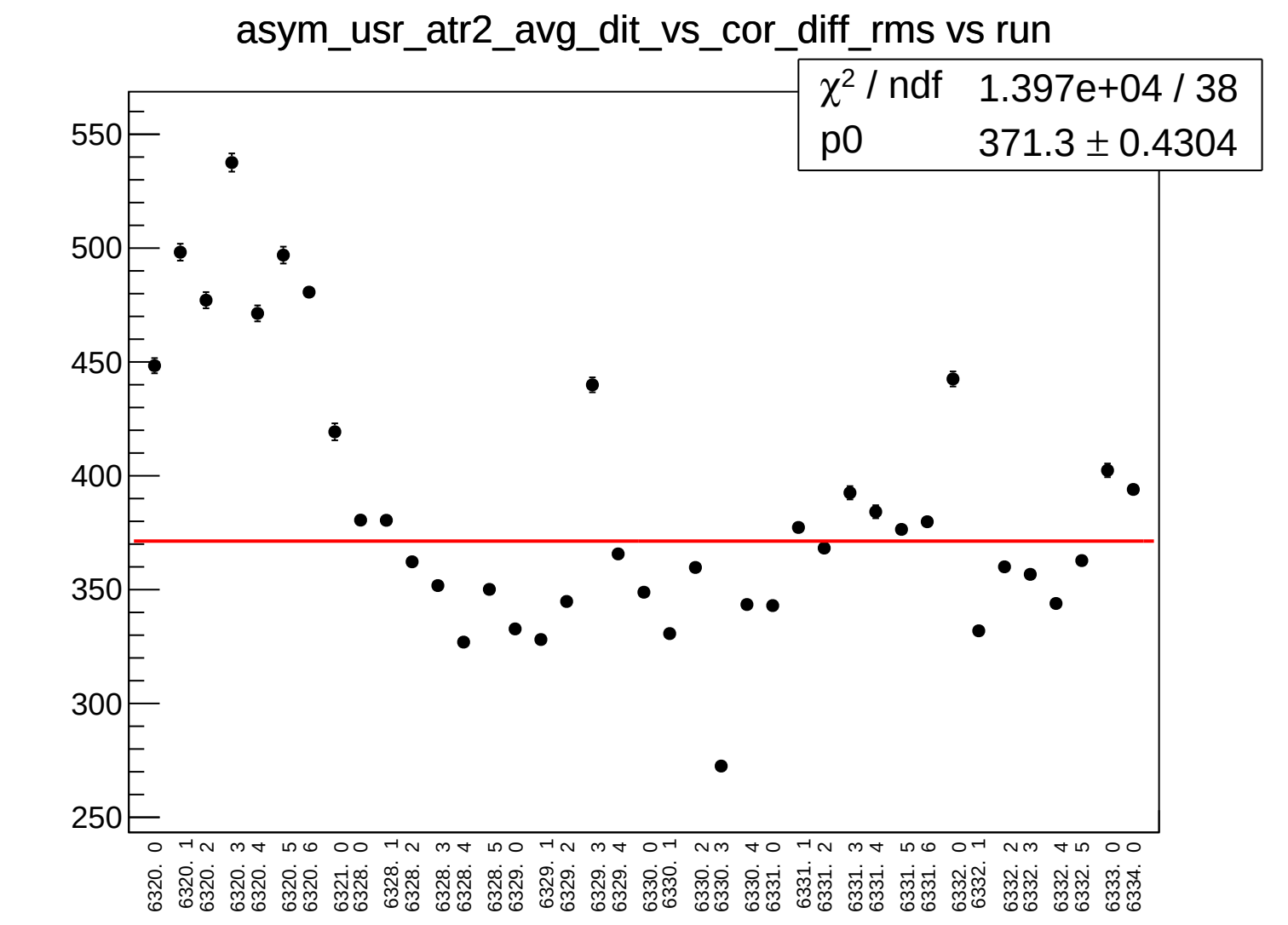

pull1D
Entries 39
Mean 0.01117
Std Dev 0.7591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

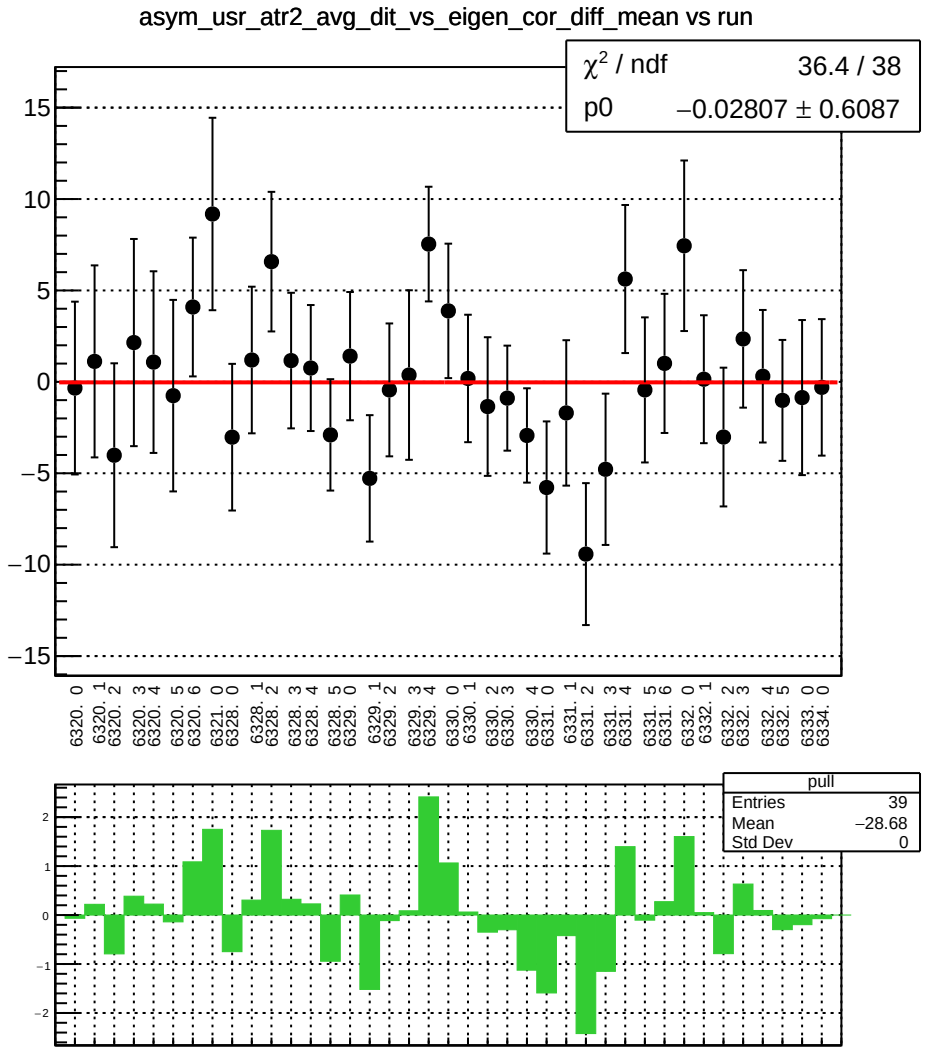

asym_usr_atr2_avg_rms vs run
χ² / ndf 3875 / 38
p0 8682 ± 9.997
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

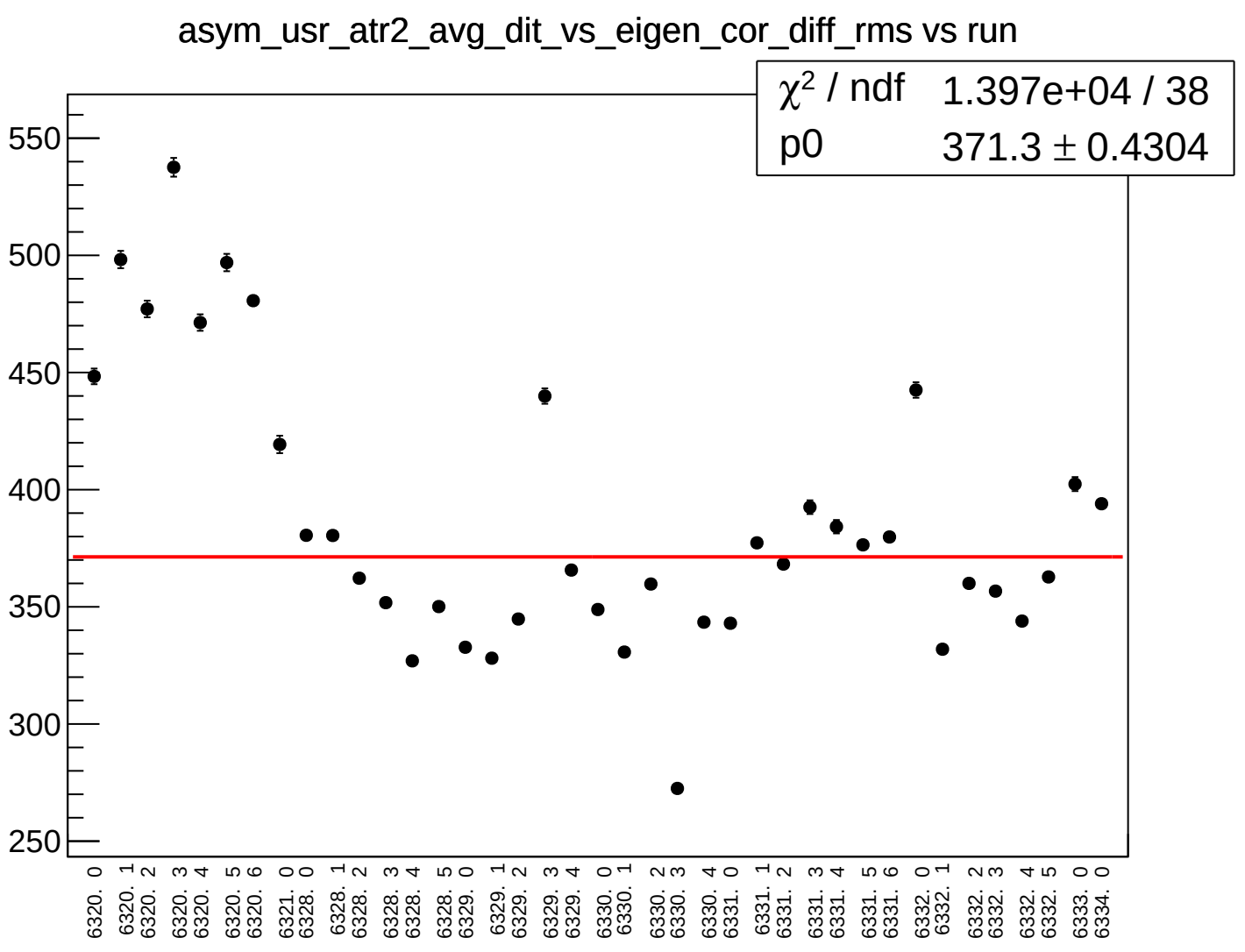

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 44.84 / 38
p0 3.586e−13 ± 6.946e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02247
Std Dev 1.072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

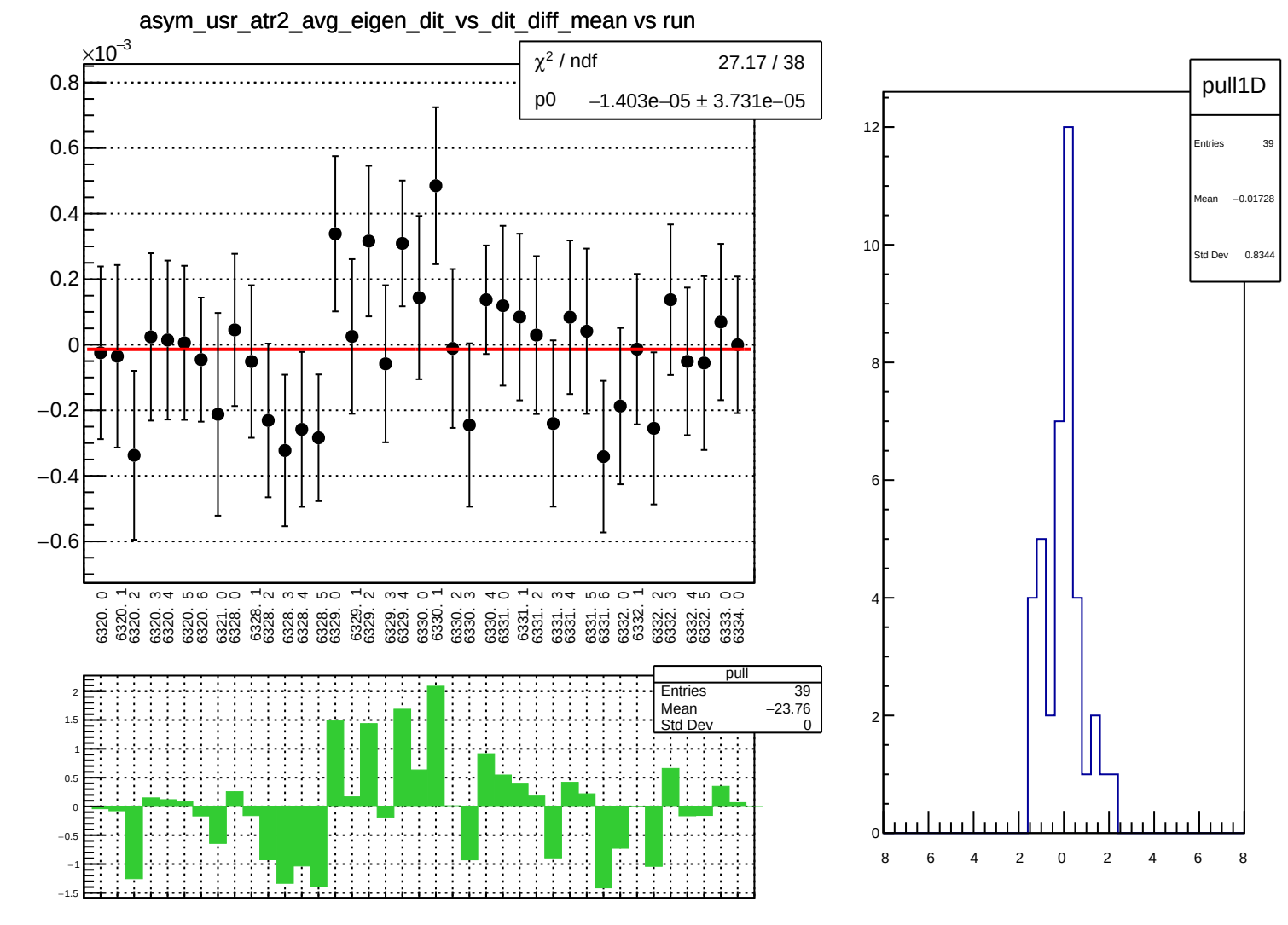

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.999e+05 / 38
p0 2.496e−10 ± 4.912e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

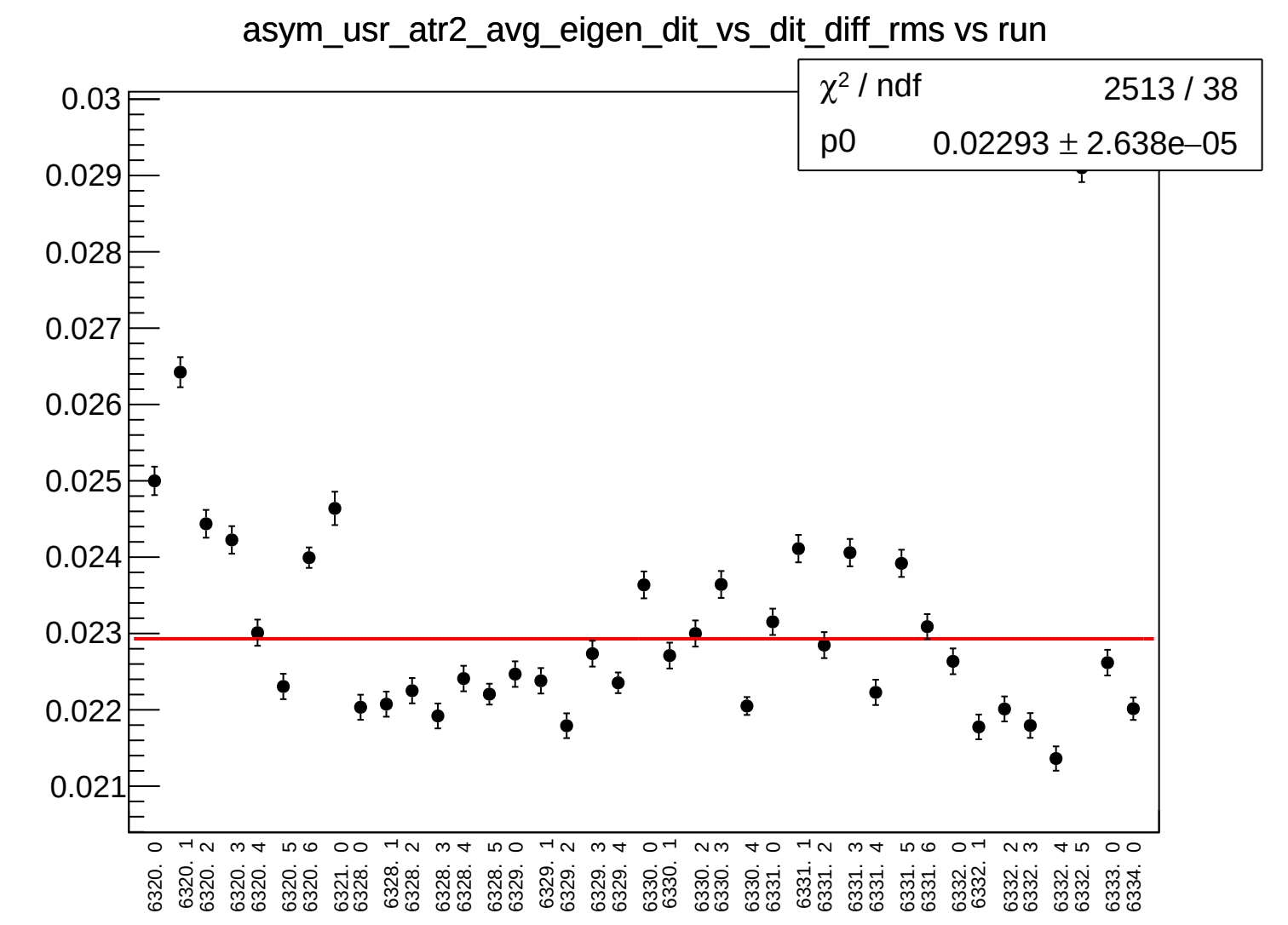

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.4 / 38
p0 −0.02807 ± 0.6087
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0305
Std Dev 0.9656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

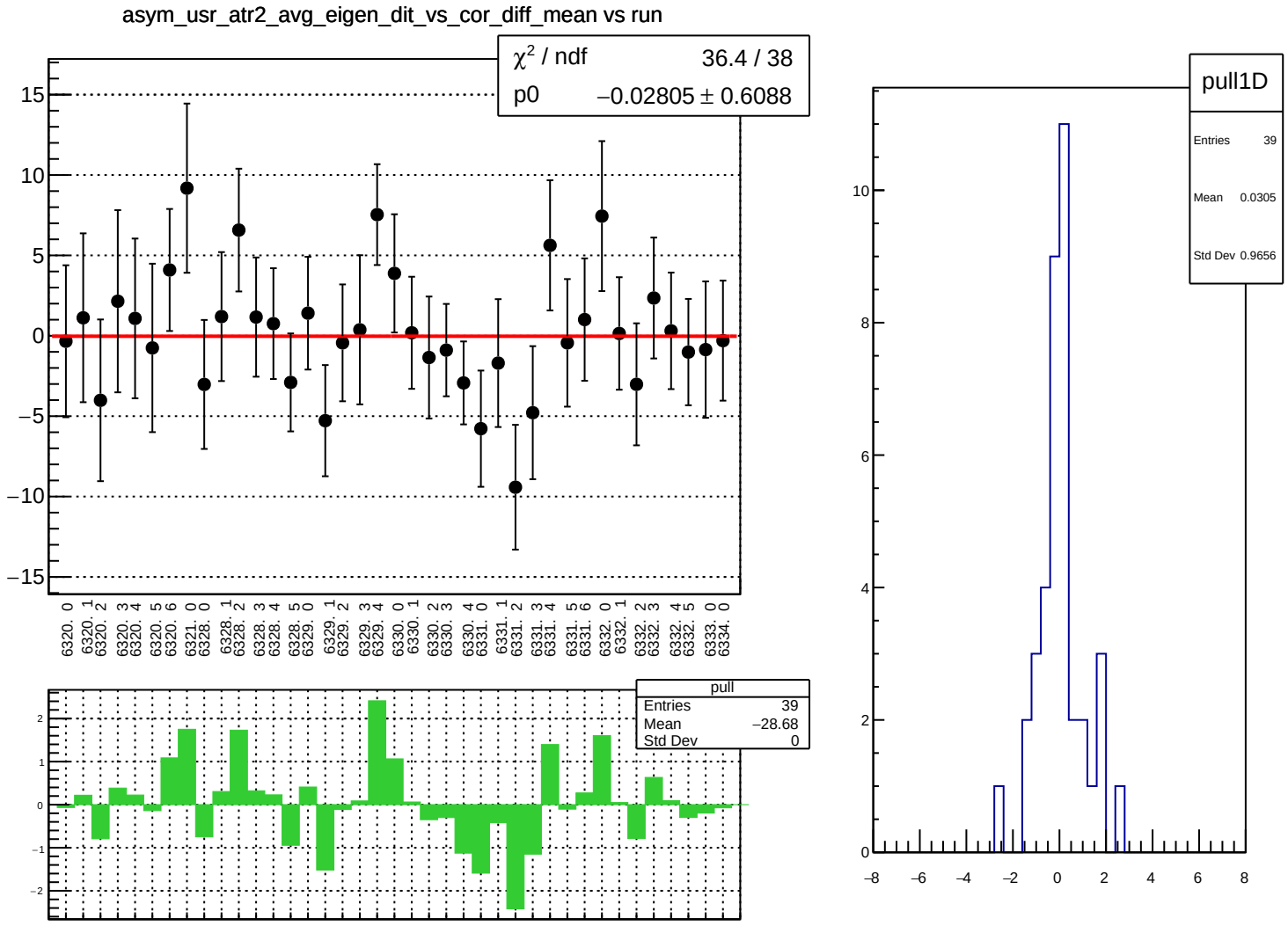

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 371.3 ± 0.4304
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

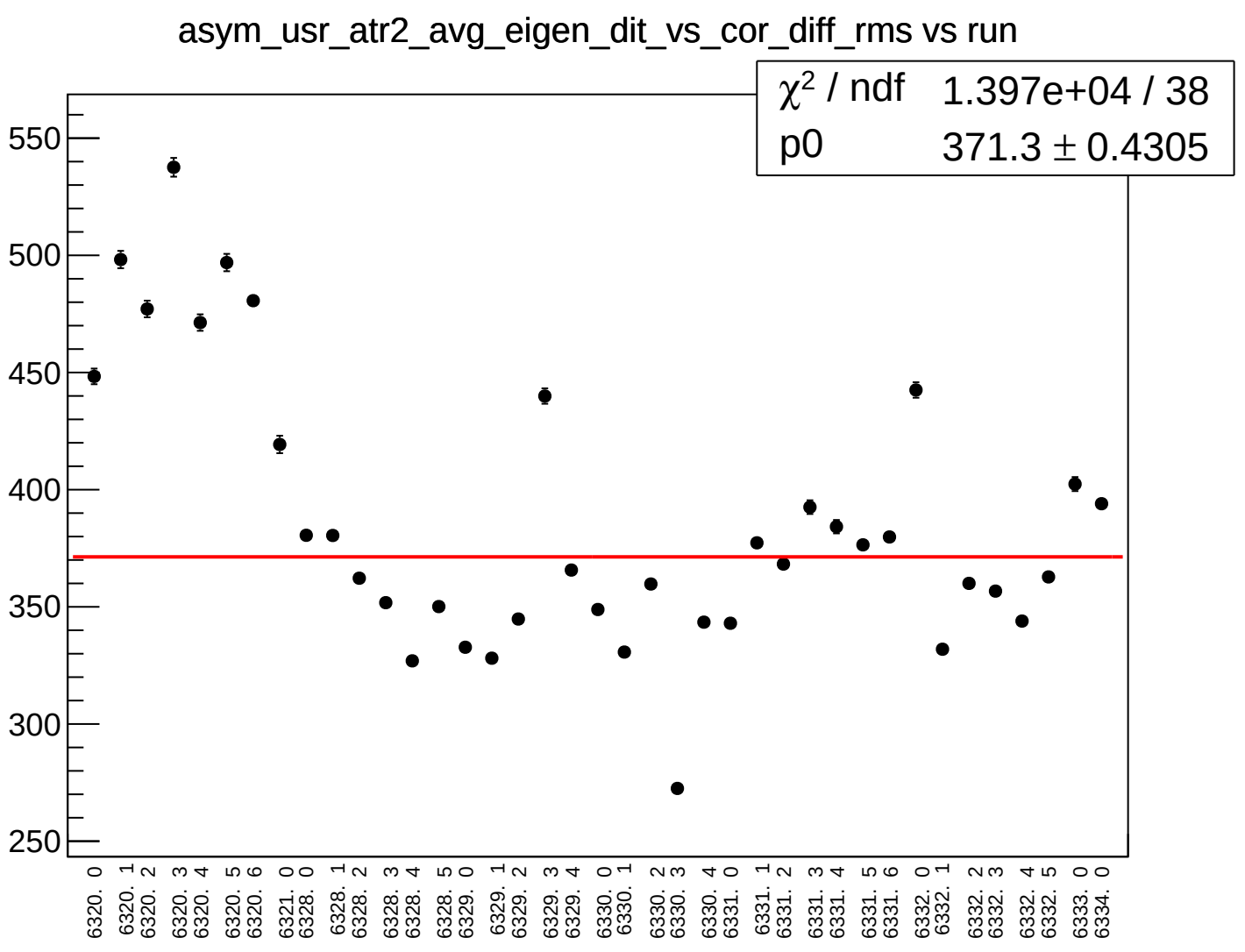

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.4 / 38
p0 −0.02807 ± 0.6087
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0305
Std Dev 0.9656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

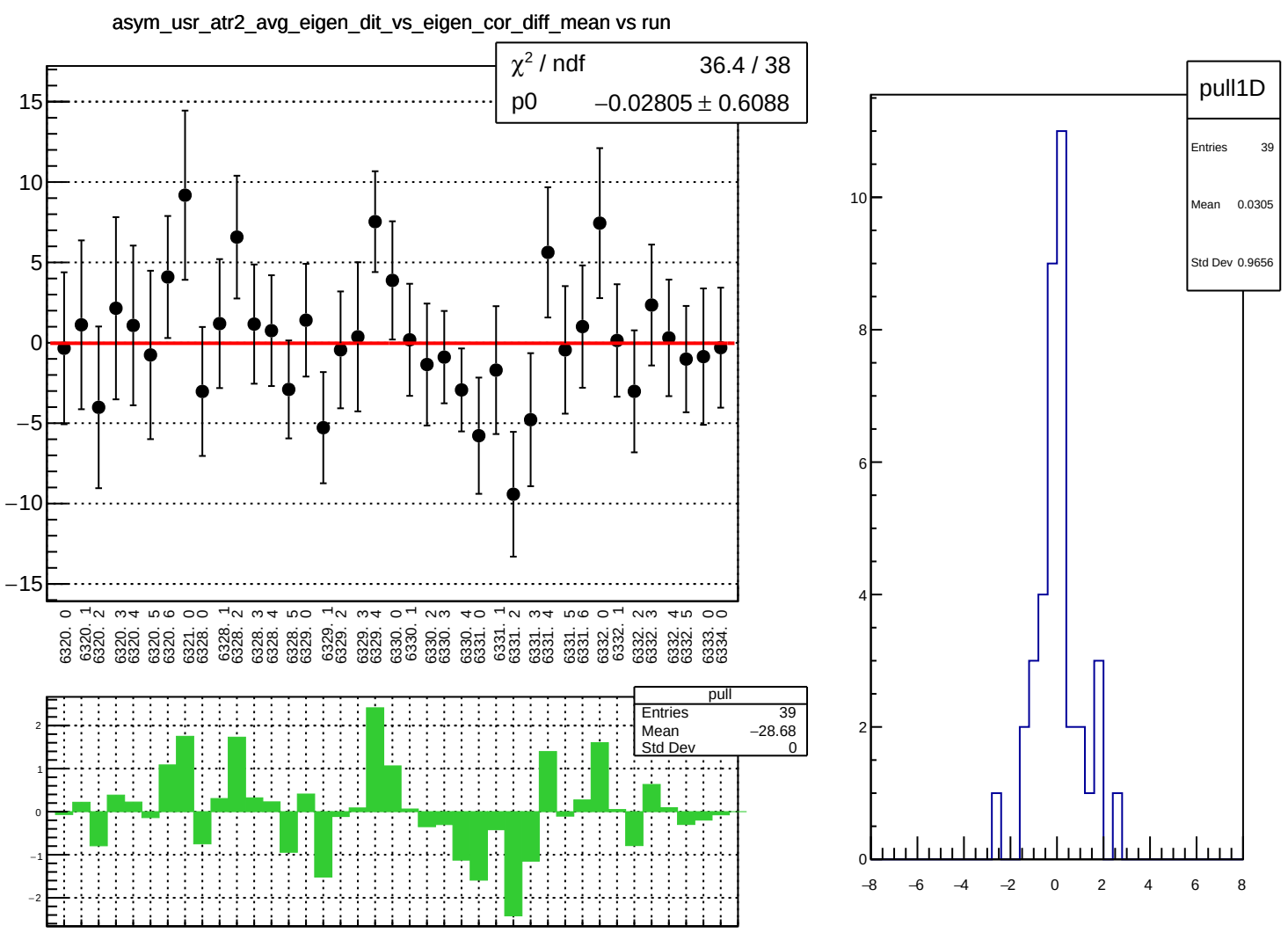

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 371.3 ± 0.4304
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

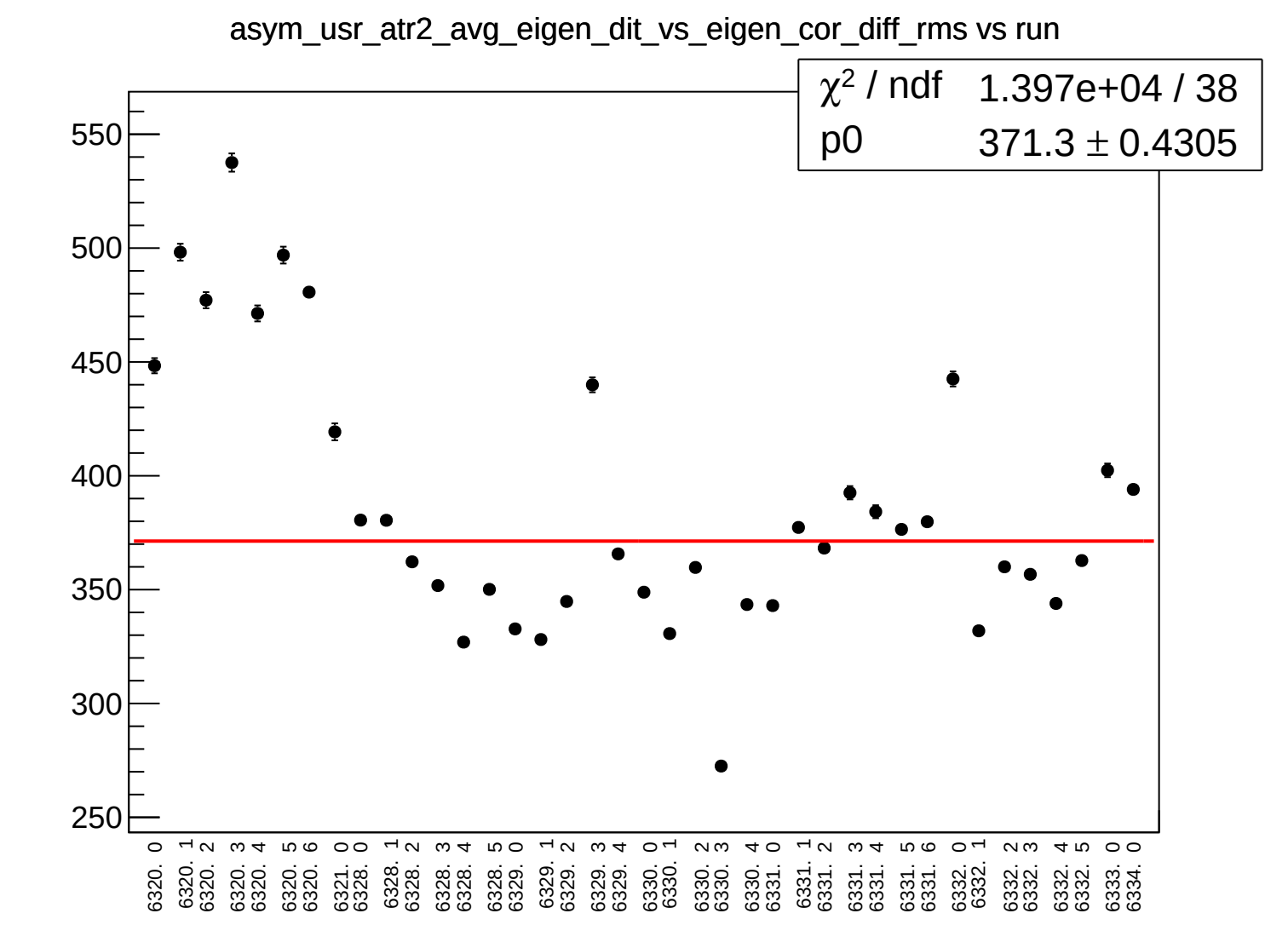

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.17 / 38
p0 −1.403e−05 ± 3.731e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01728
Std Dev 0.8344
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

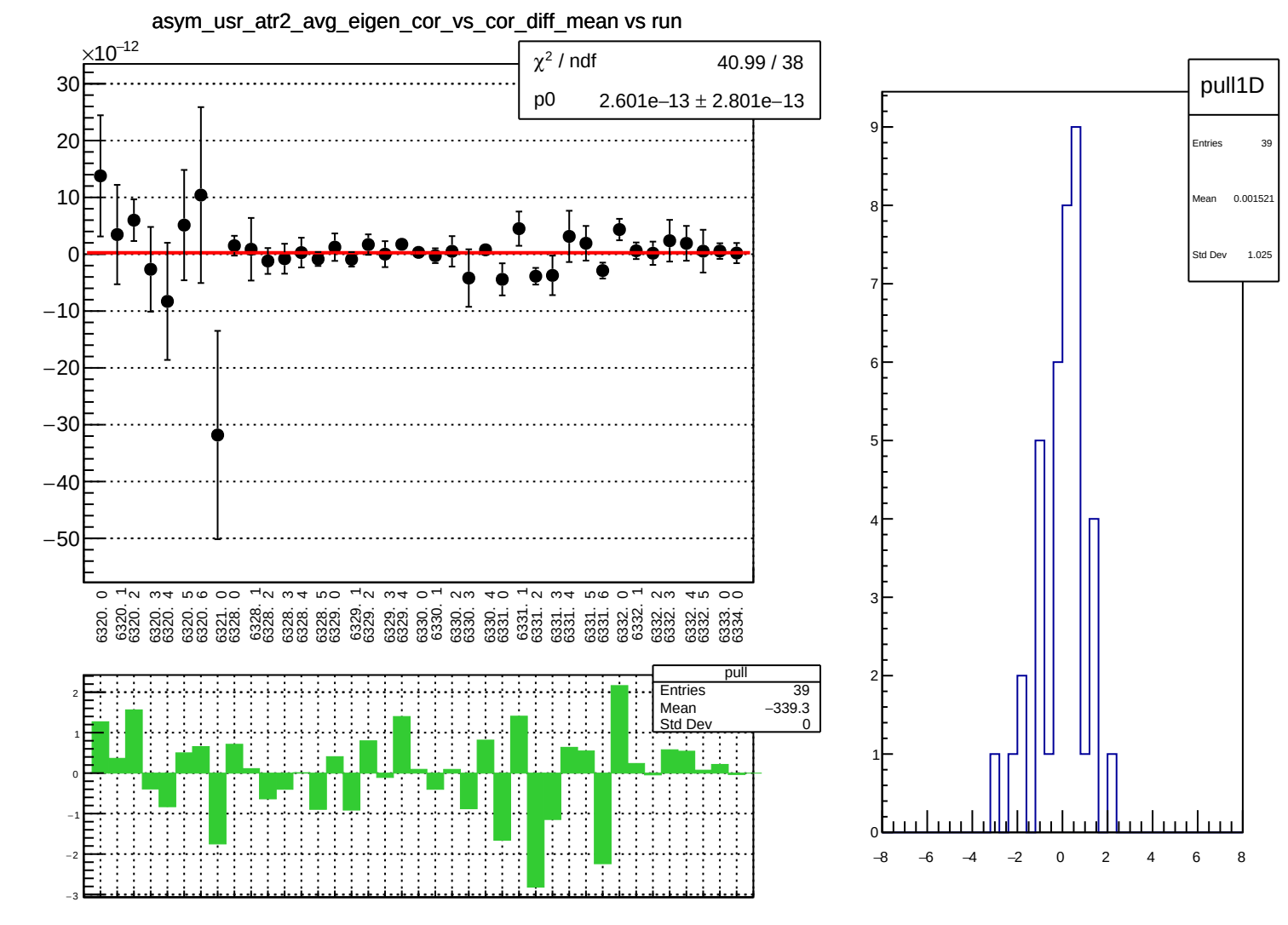

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2513 / 38
p0 0.02293 ± 2.638e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

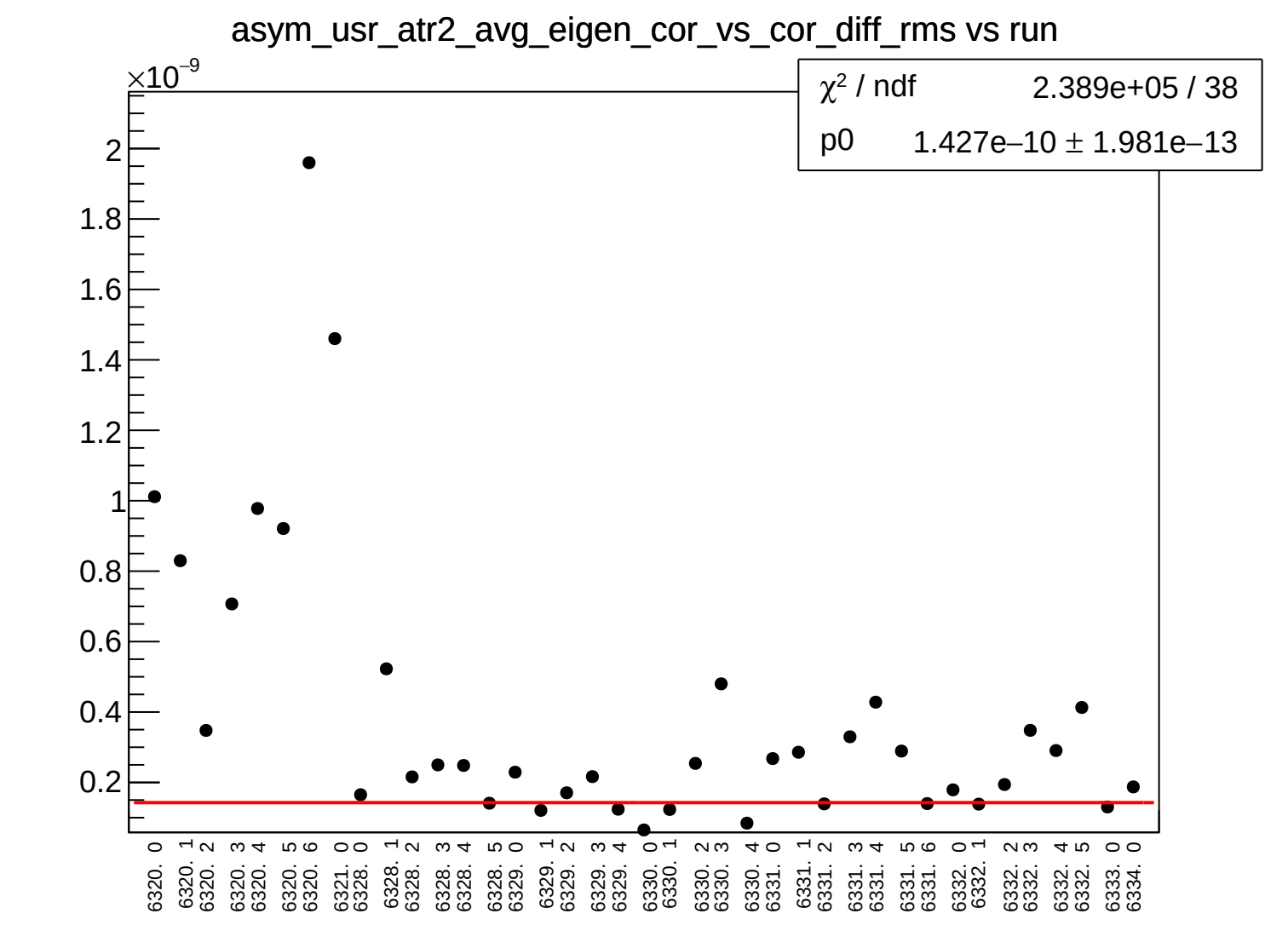

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.4 / 38
p0 −0.02805 ± 0.6088
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0305
Std Dev 0.9656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

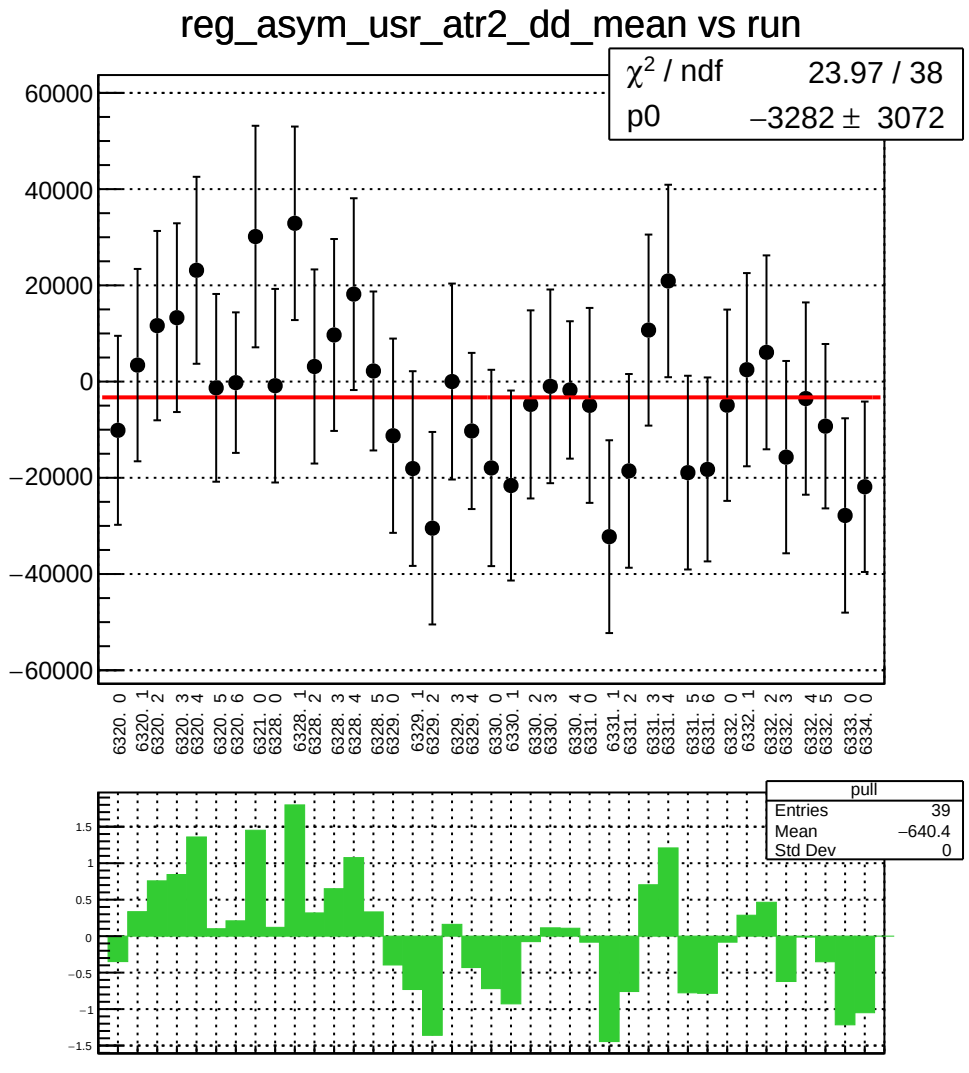

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 371.3 ± 0.4305
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

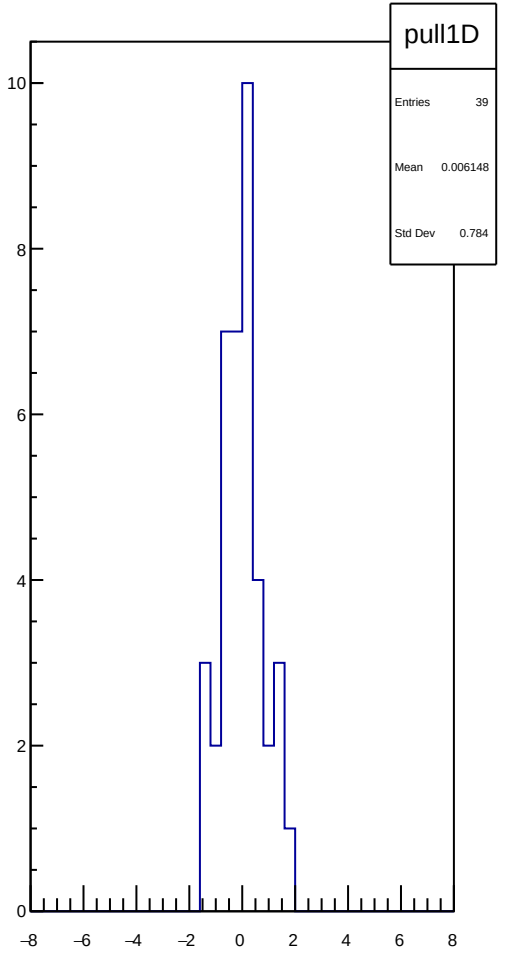

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.4 / 38
p0 −0.02805 ± 0.6088
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0305
Std Dev 0.9656
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

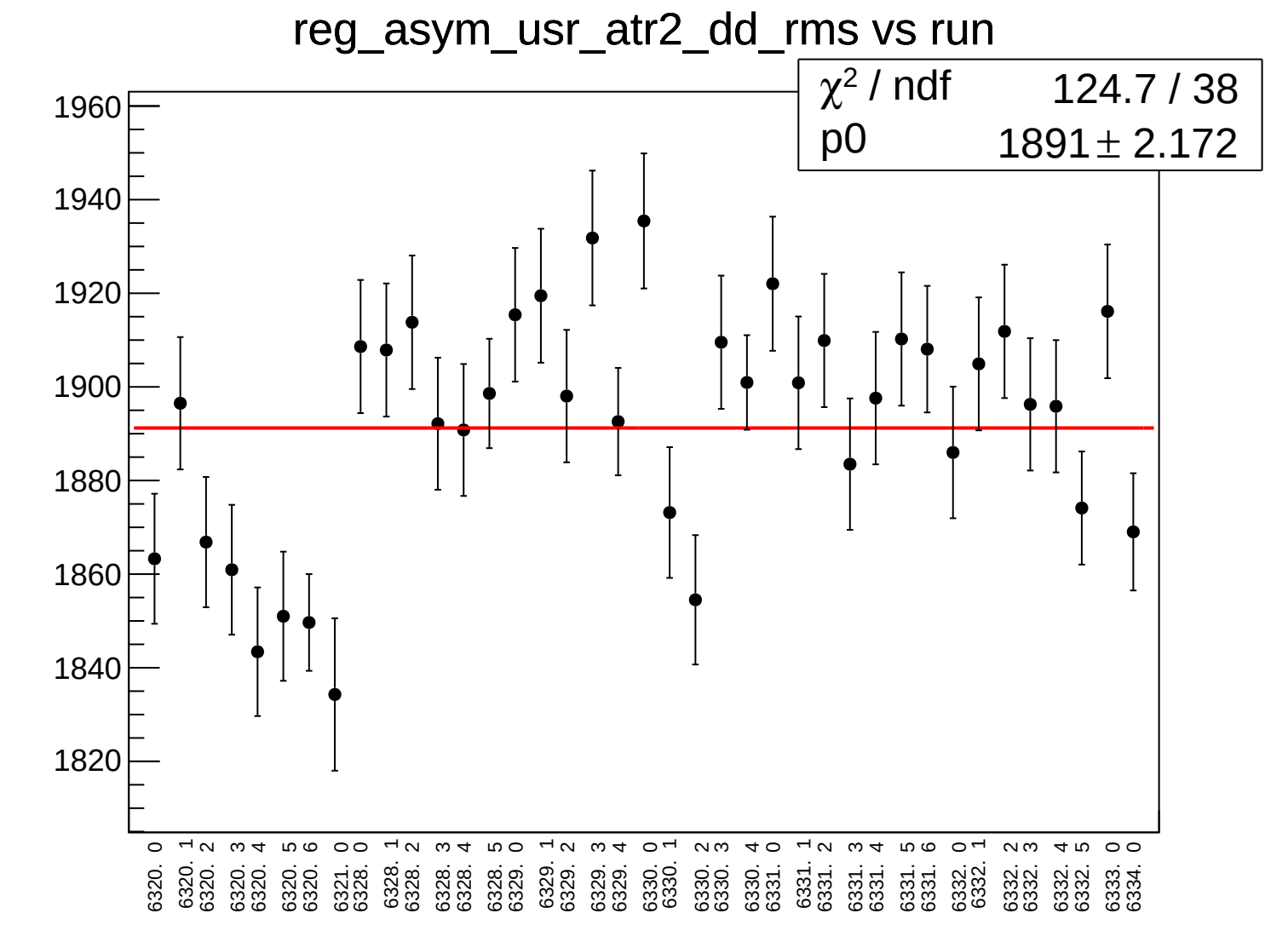

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.397e+04 / 38
p0 371.3 ± 0.4305
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

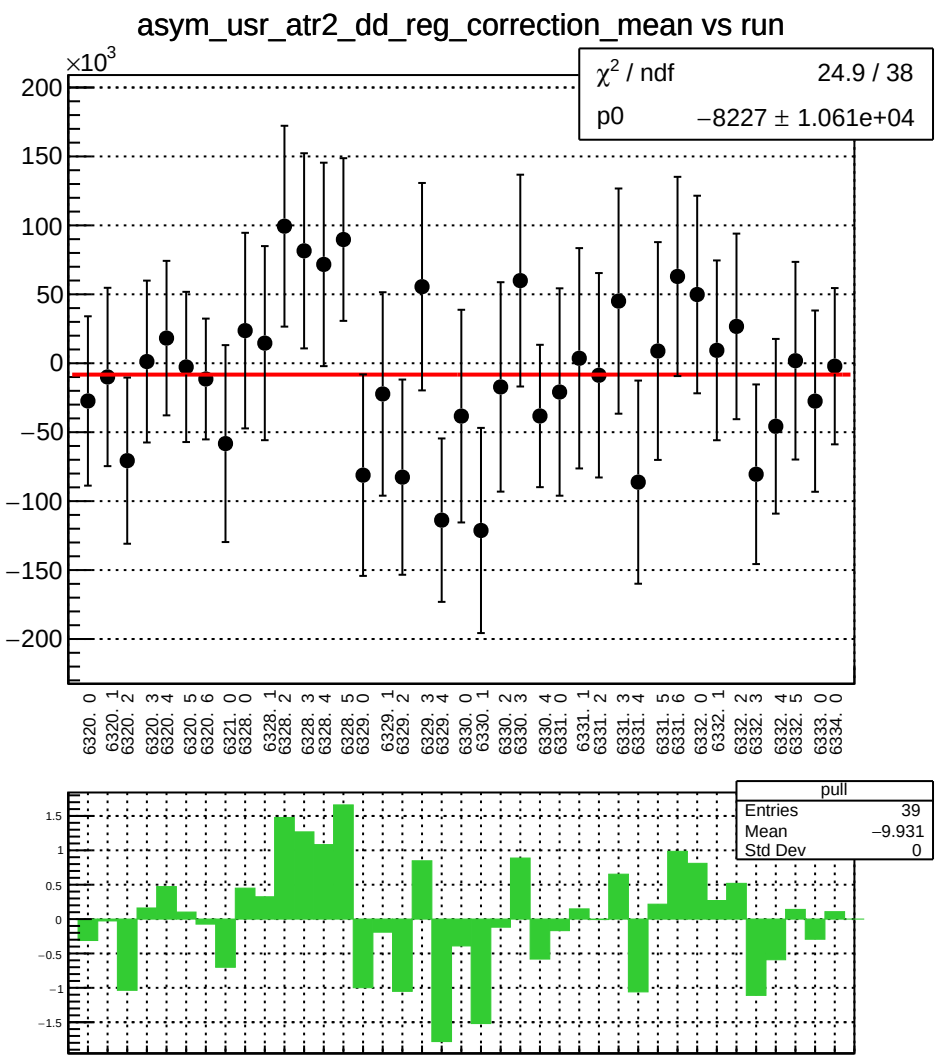

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.99 / 38
p0 2.601e−13 ± 2.801e−13
30
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −339.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.001521
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

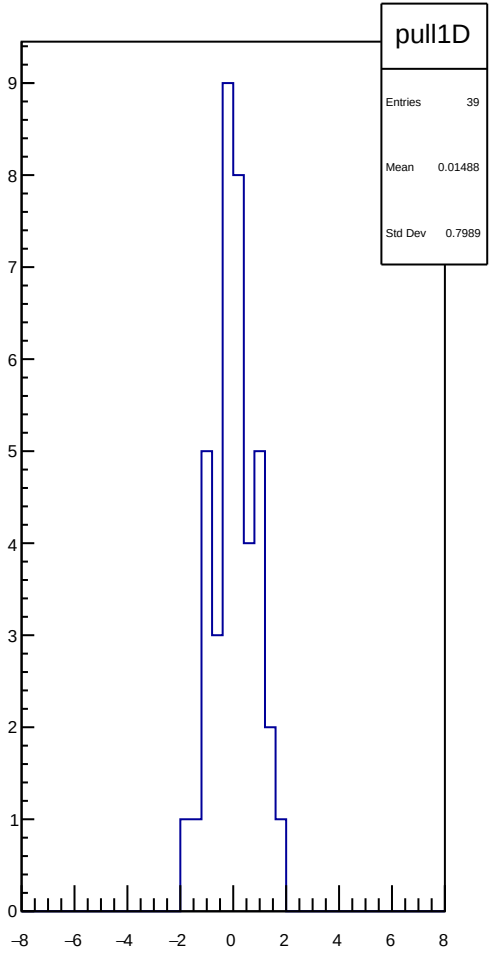

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.389e+05 / 38
p0 1.427e−10 ± 1.981e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

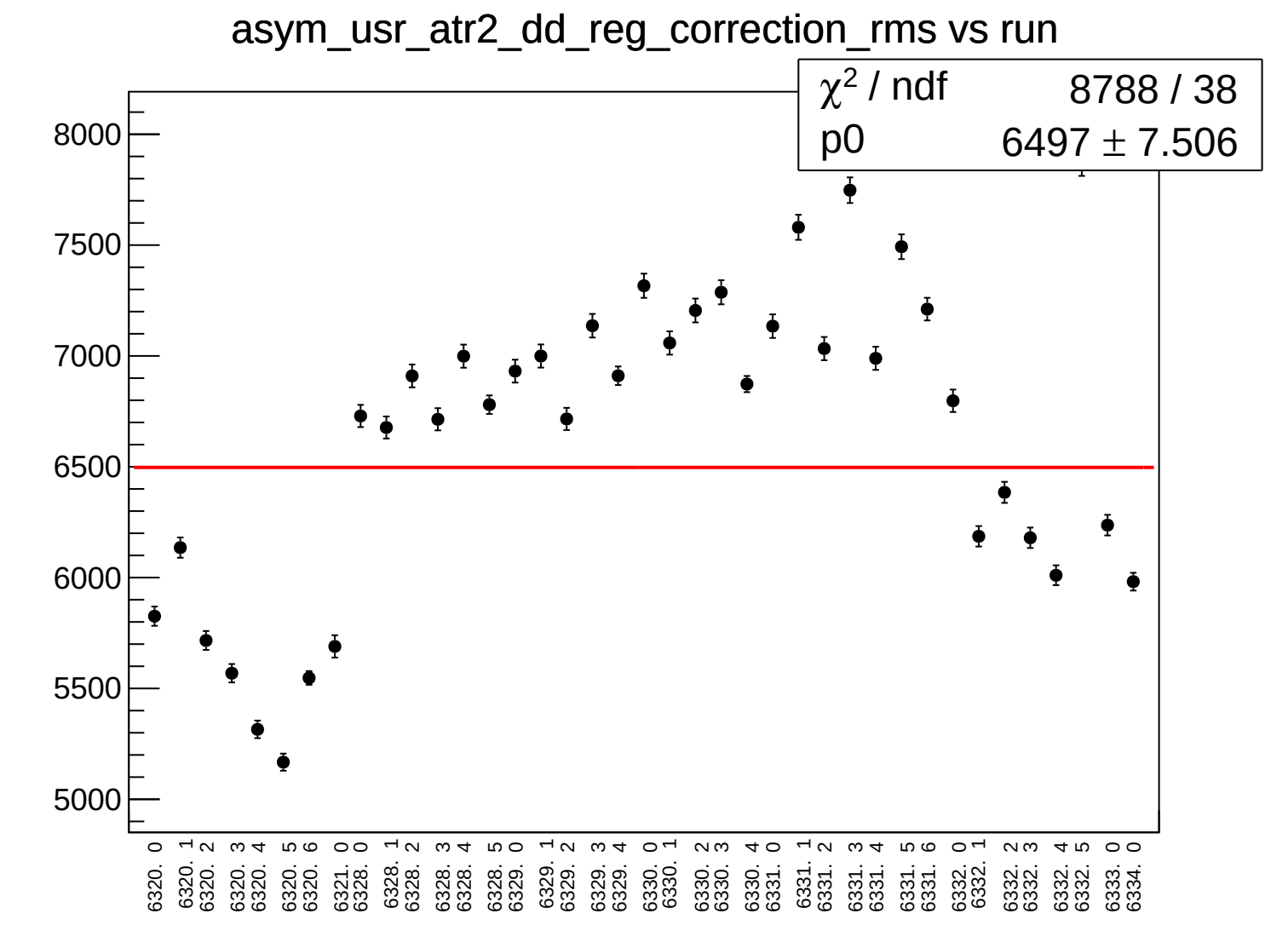

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 23.97 / 38
p0 −3282 ± 3072
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −640.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

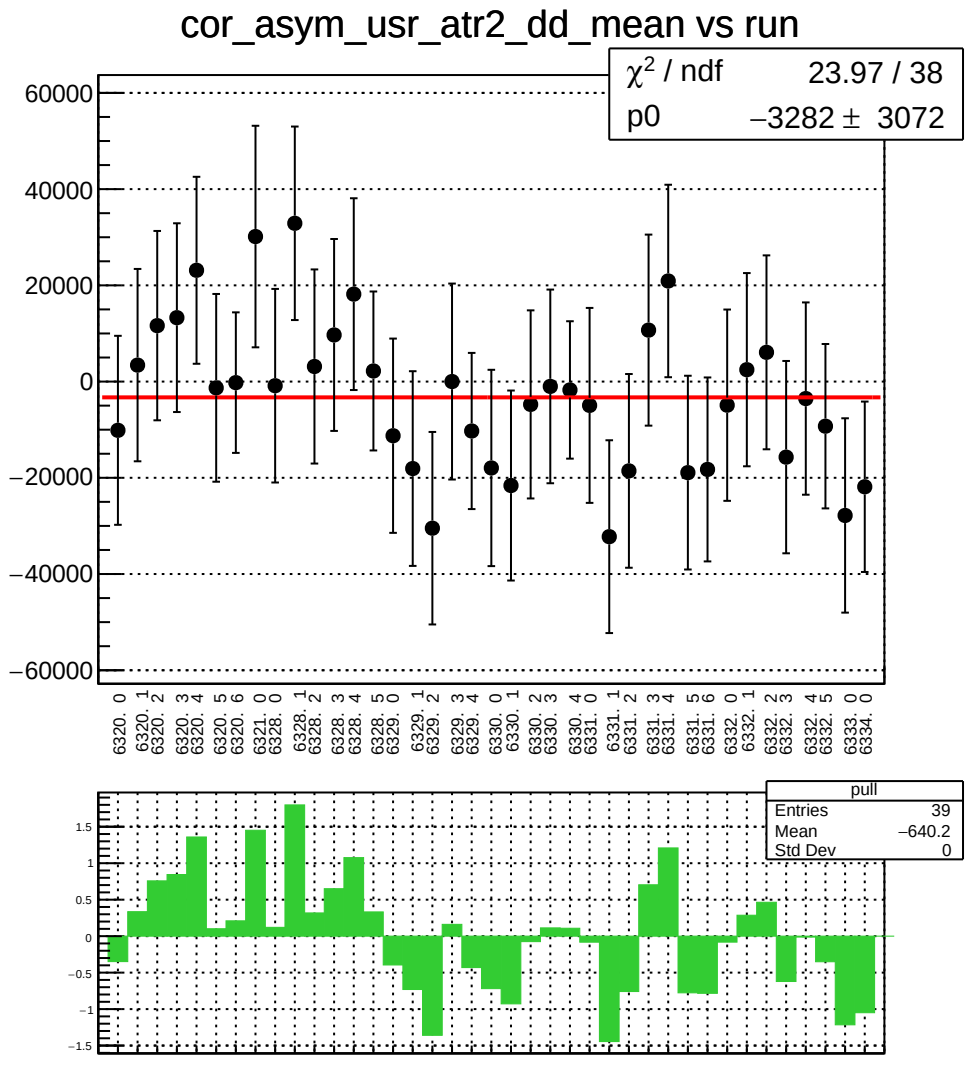

pull1D
Entries 39
Mean 0.006148
Std Dev 0.784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

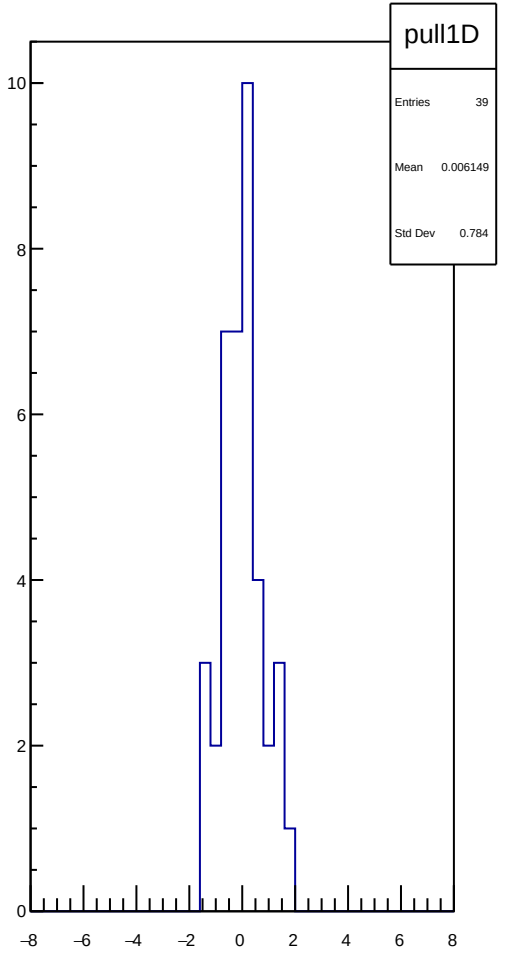

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 124.7 / 38
p0 1891 ± 2.172
1960
1940
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

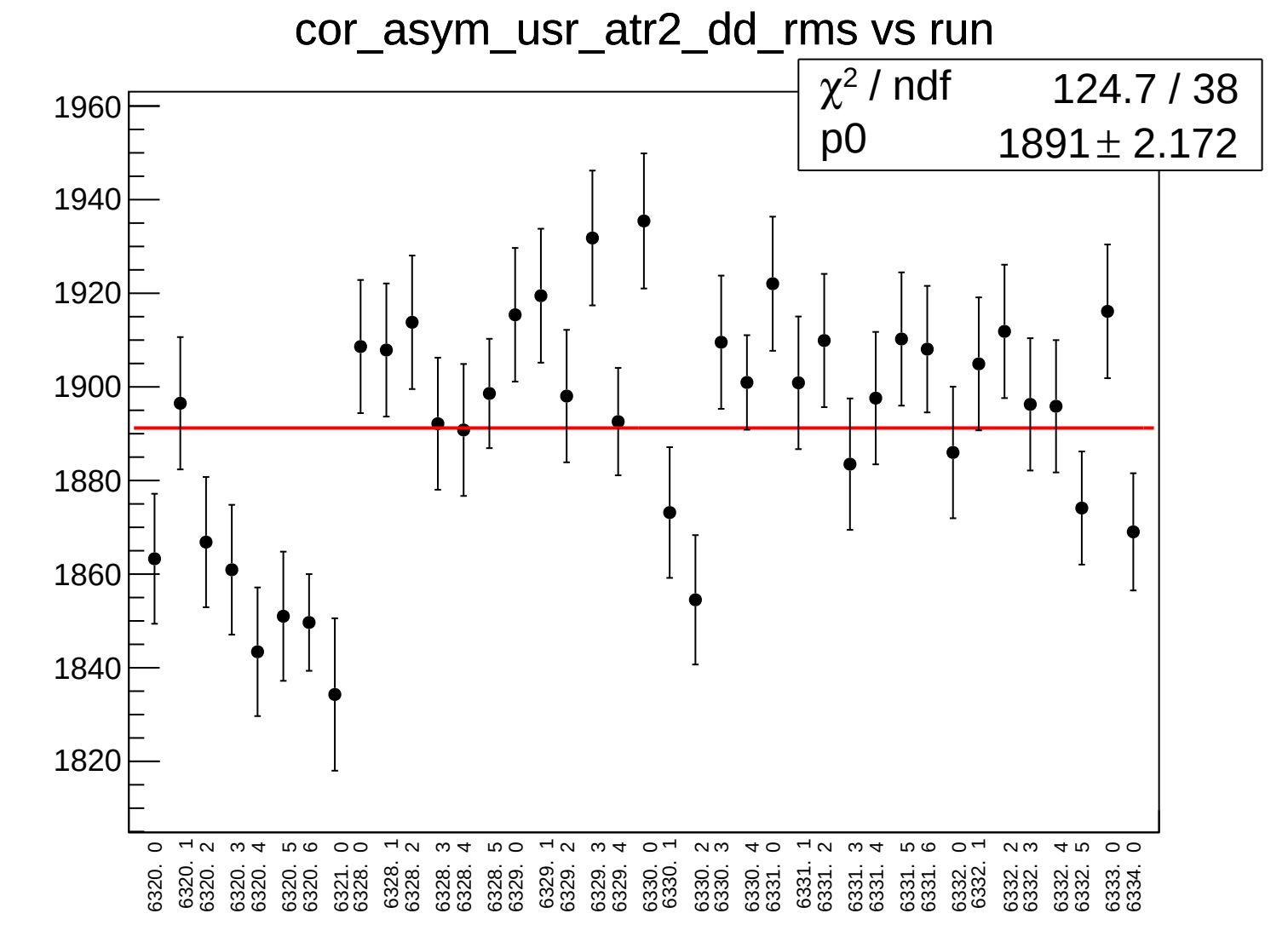

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.9 / 38
p0 −8227 ± 1.061e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.931
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

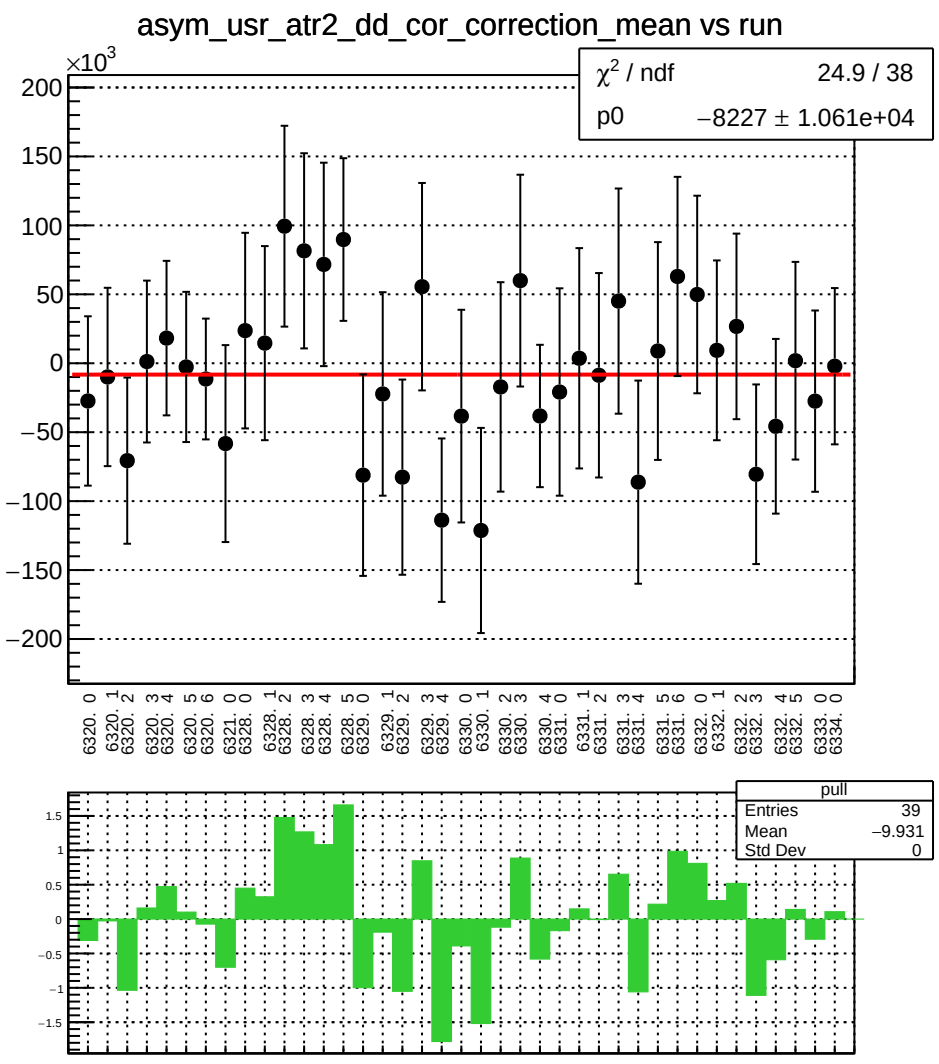

pull1D
Entries 39
Mean 0.01488
Std Dev 0.7989
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

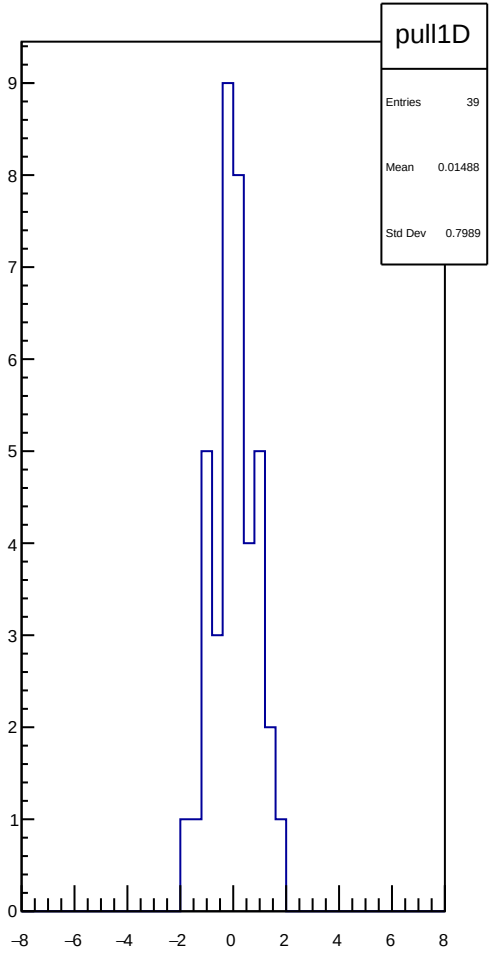

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 8788 / 38
p0 6497 ± 7.506
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

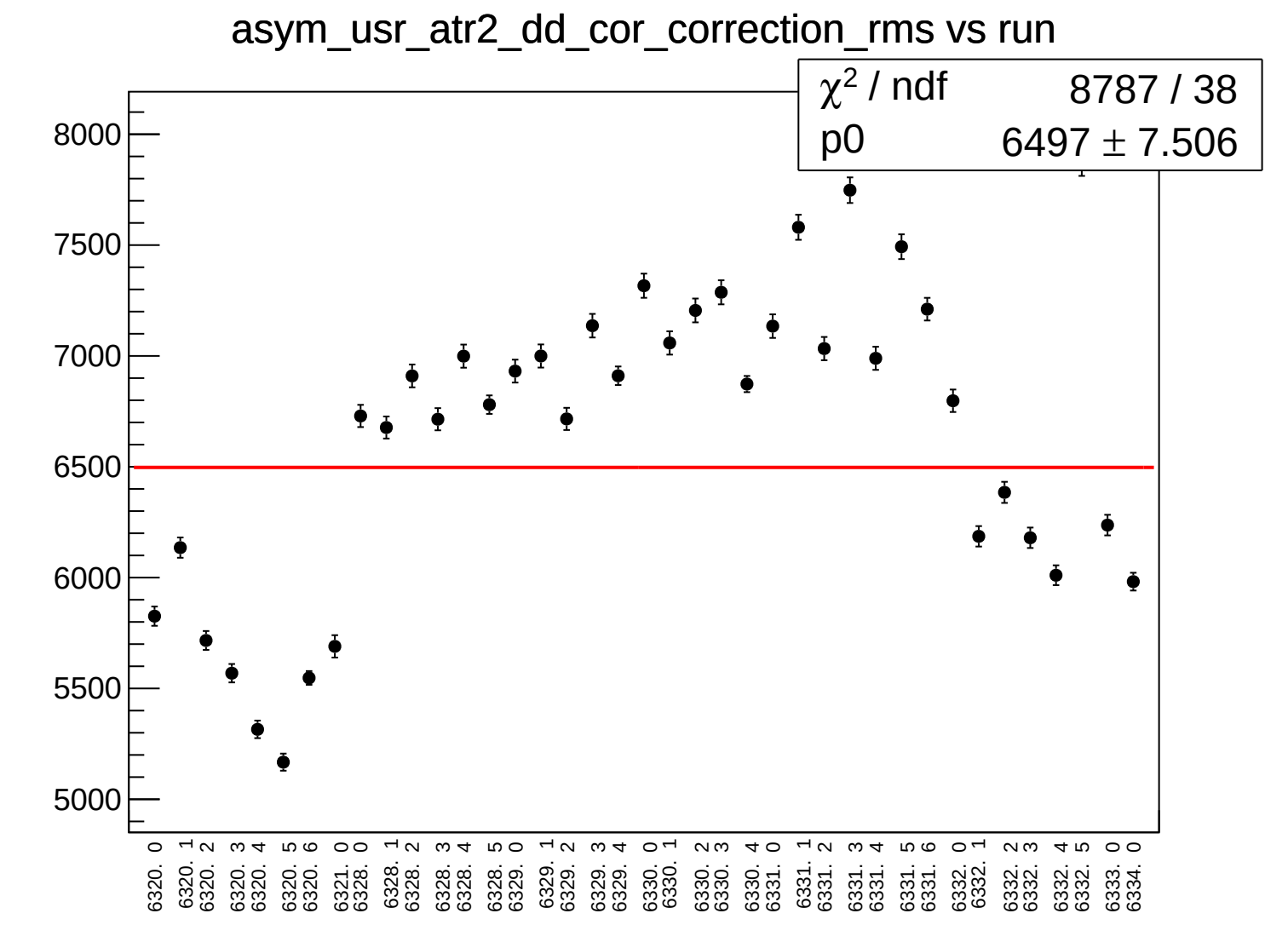

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 23.97 / 38
p0 −3282 ± 3072
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −640.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

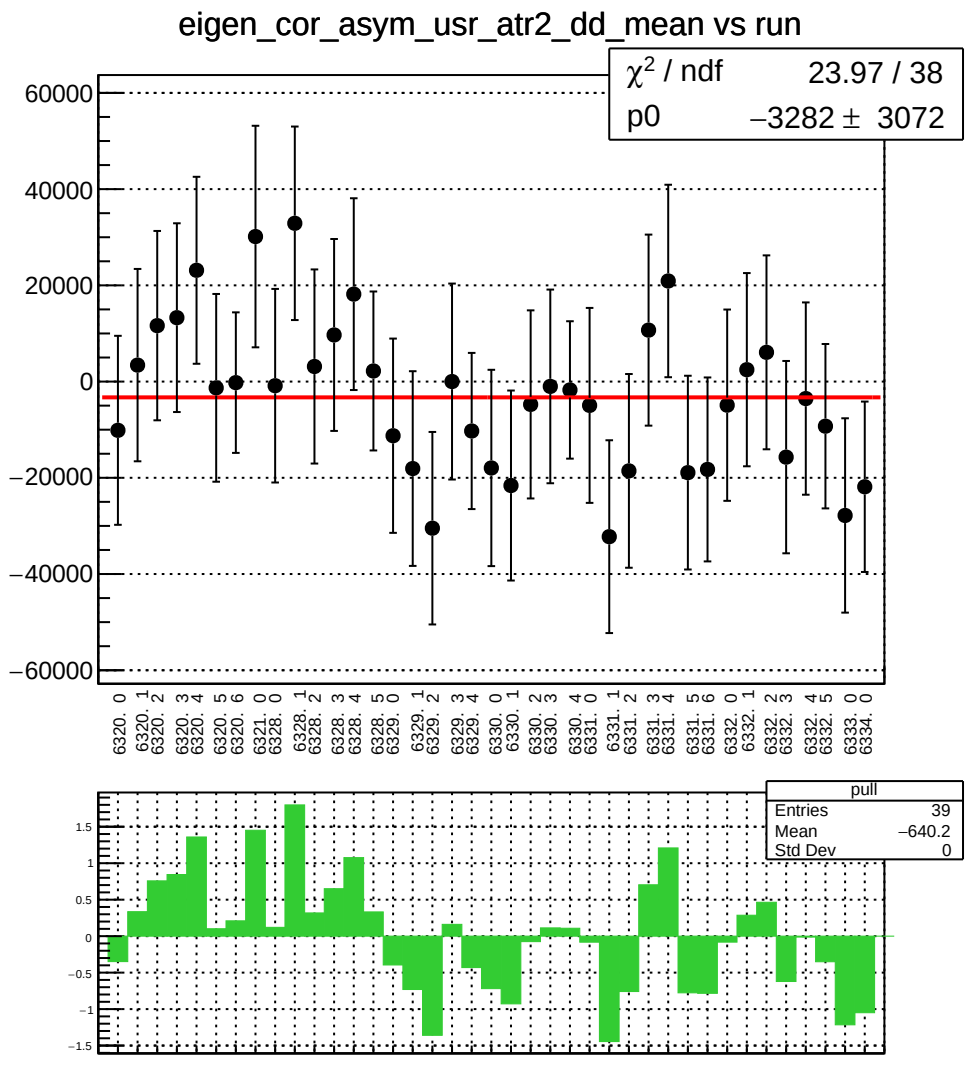

pull1D
Entries 39
Mean 0.006149
Std Dev 0.784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

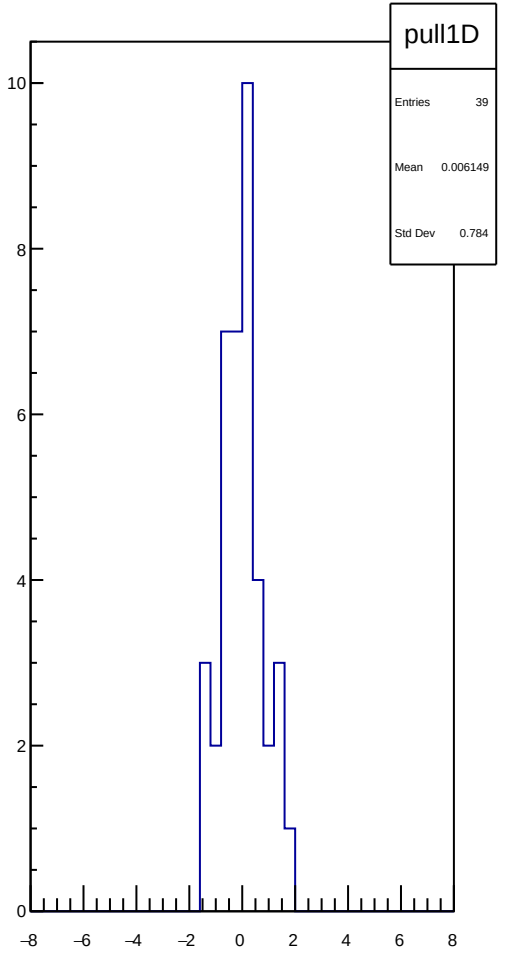

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 124.7 / 38
p0 1891 ± 2.172
1960
1940
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

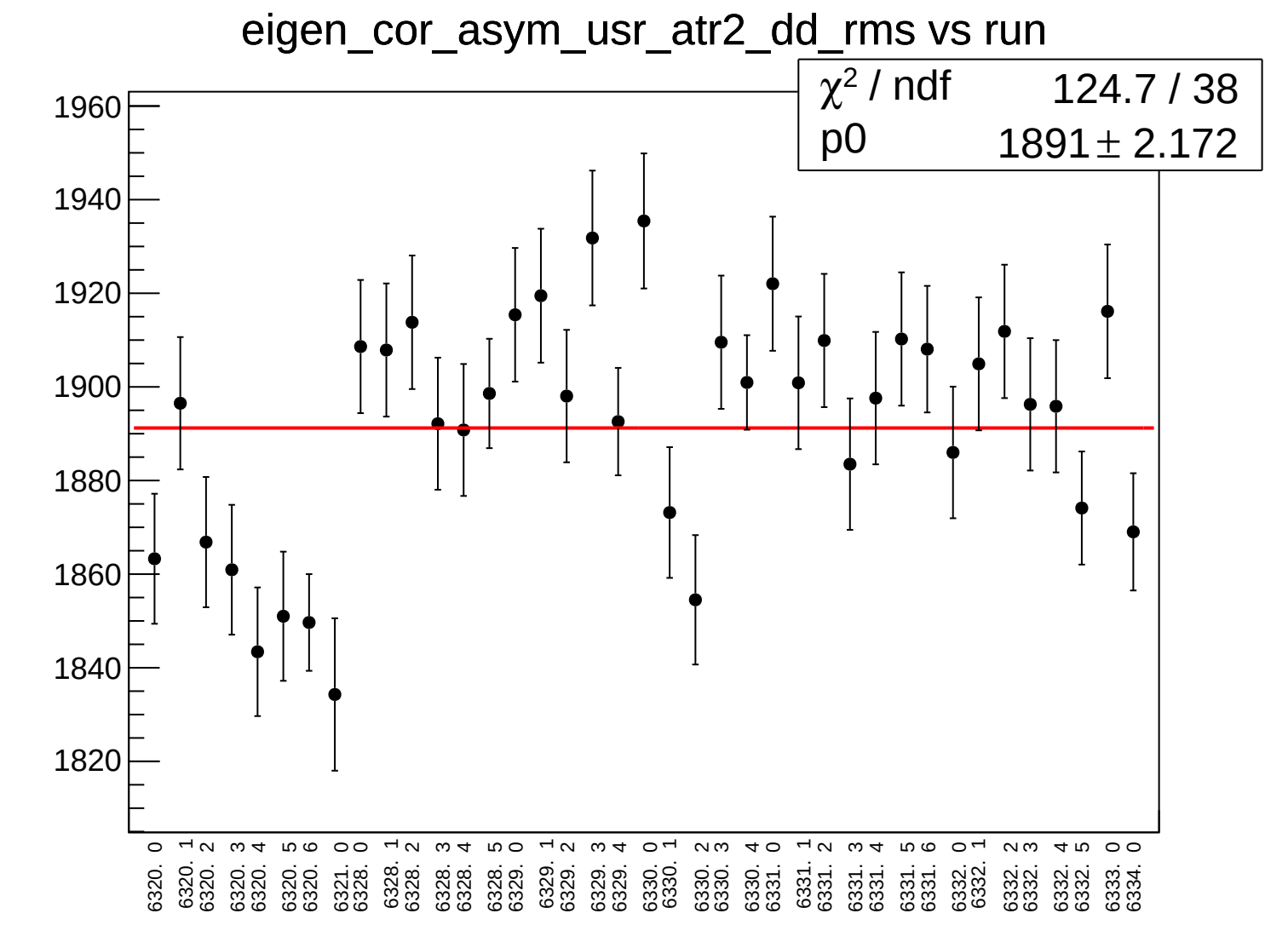

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.9 / 38
p0 −8227 ± 1.061e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.931
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

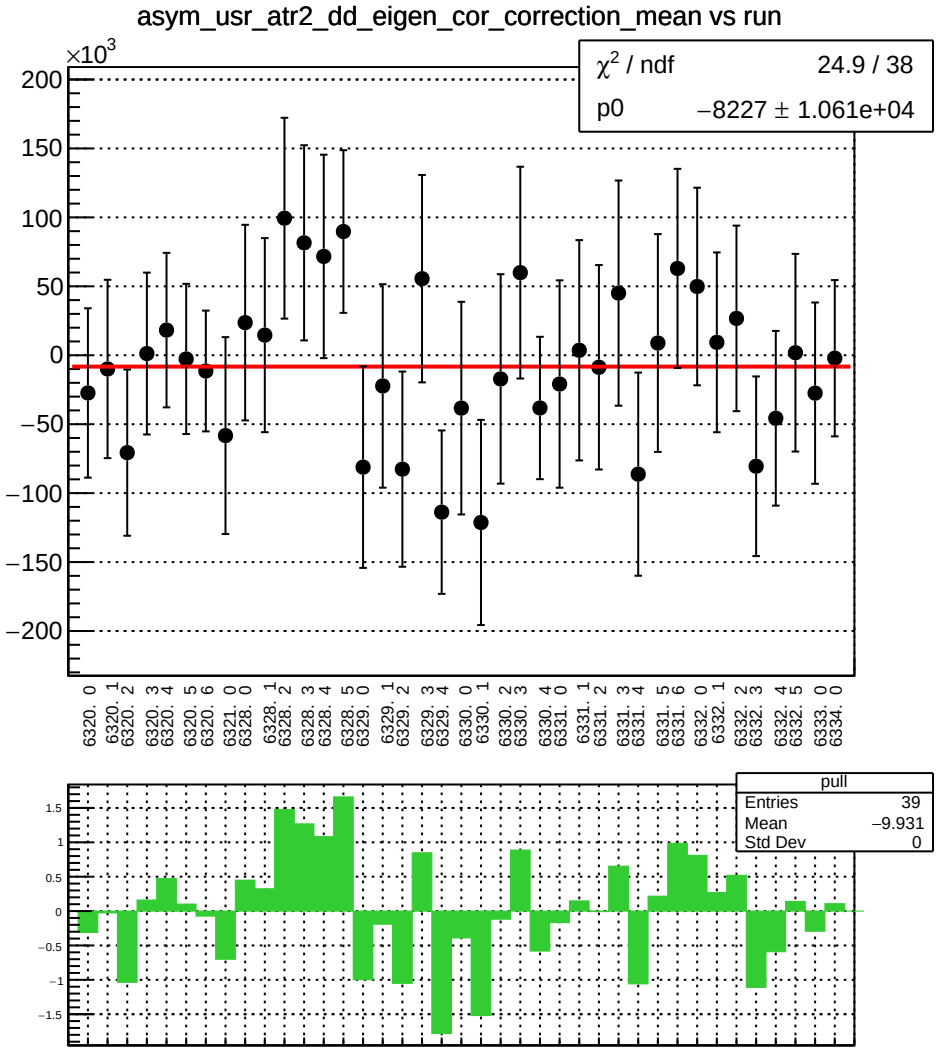

pull1D
Entries 39
Mean 0.01488
Std Dev 0.7989
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

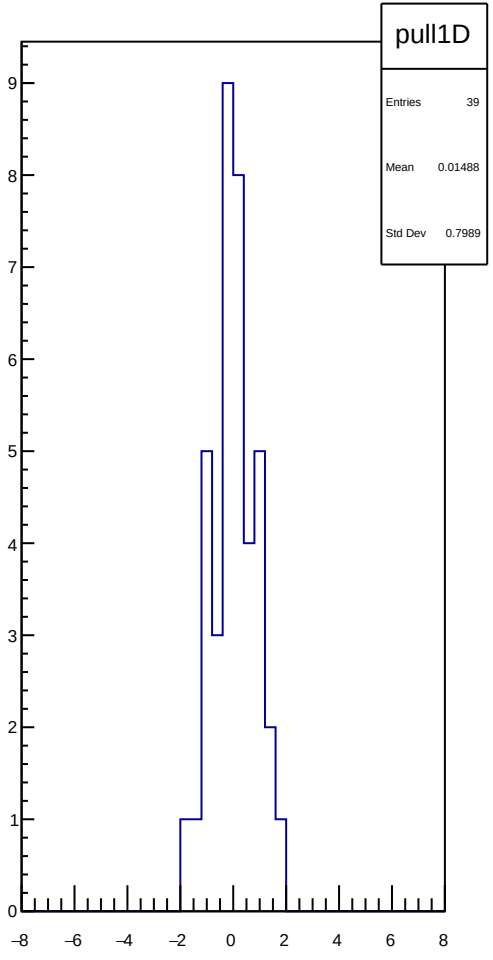

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 8787 / 38
p0 6497 ± 7.506
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

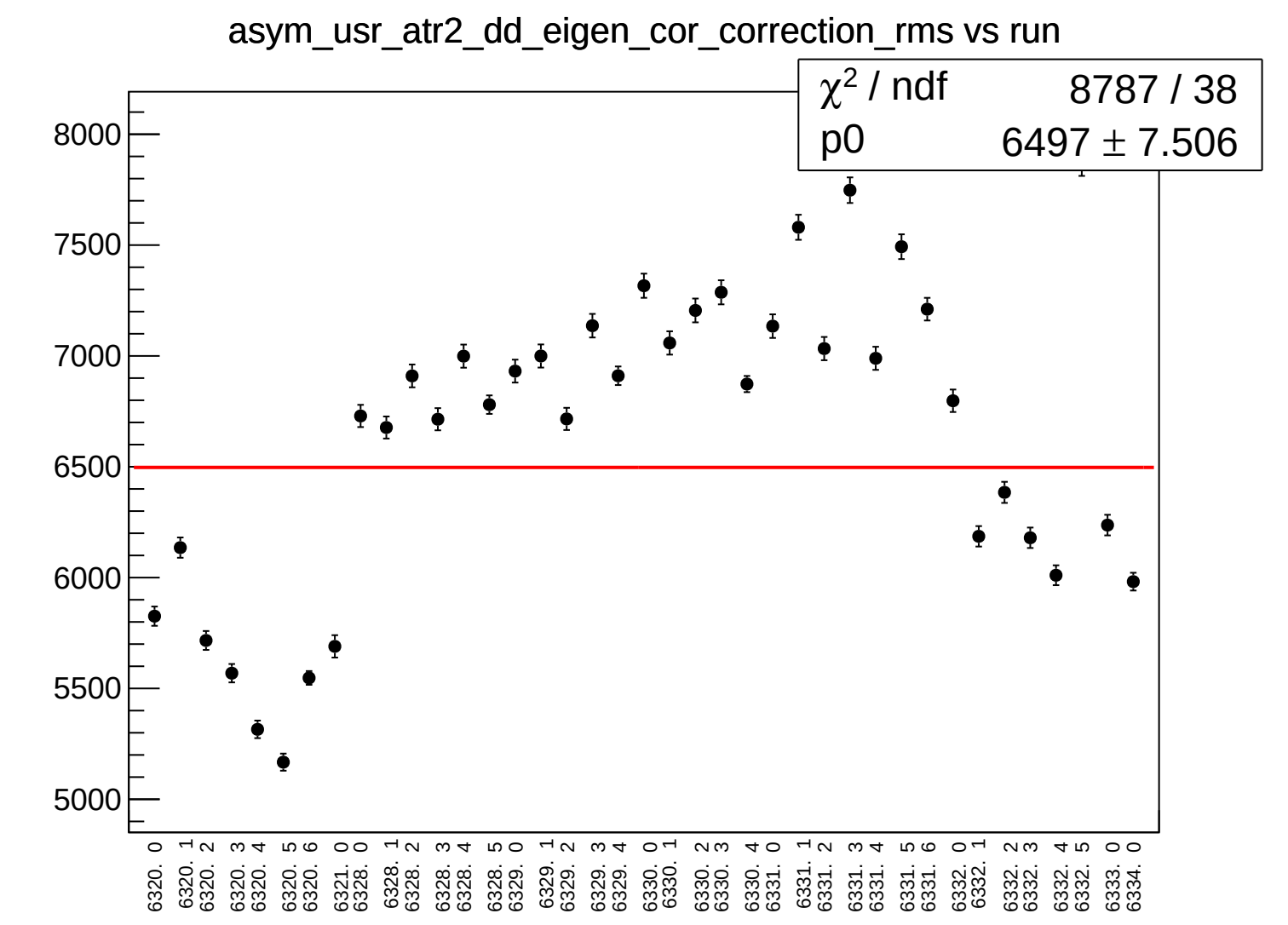

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 23.97 / 38
p0 −3282 ± 3072
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −640.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

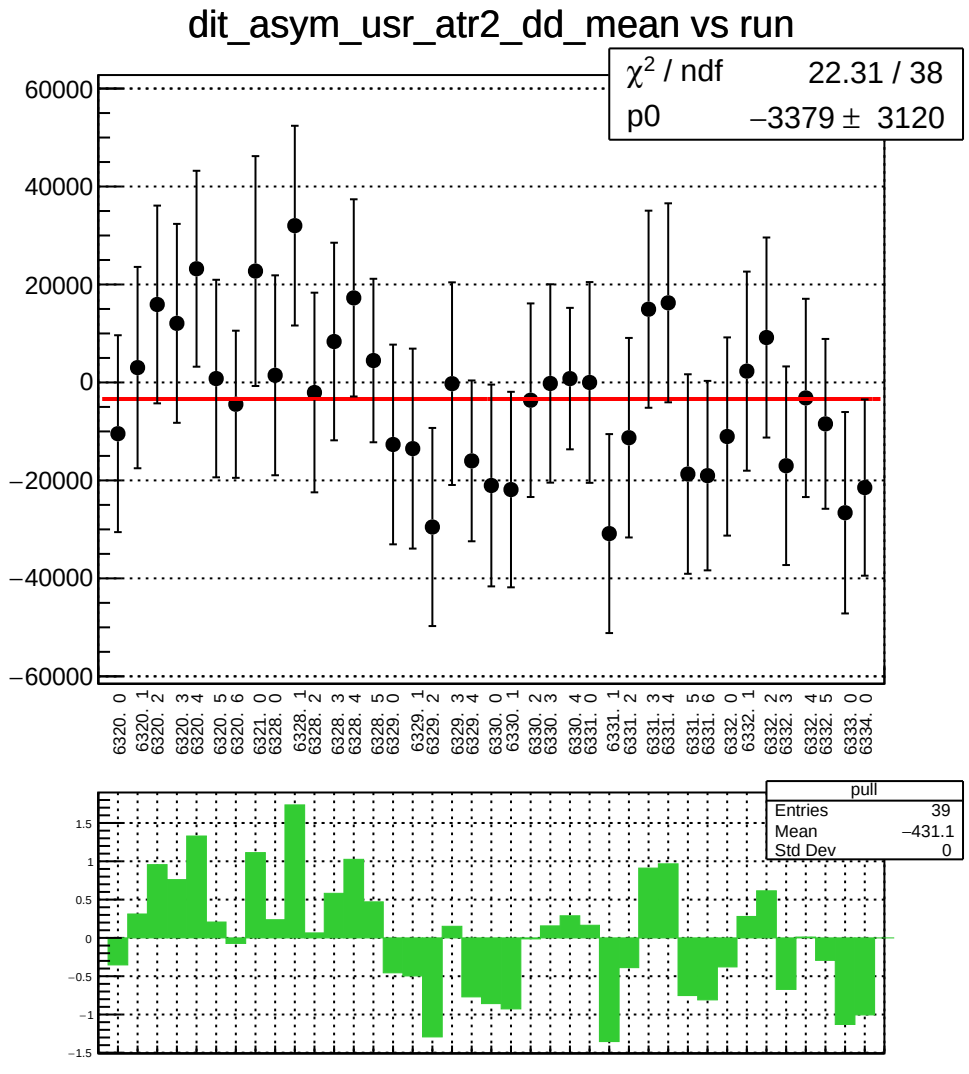

pull1D
Entries 39
Mean 0.006149
Std Dev 0.784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

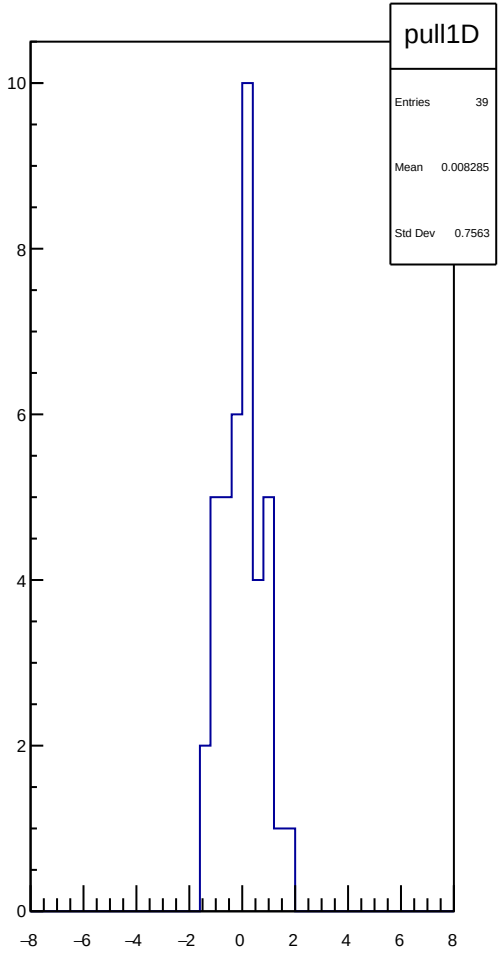

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 124.7 / 38
p0 1891 ± 2.172
1960
1940
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

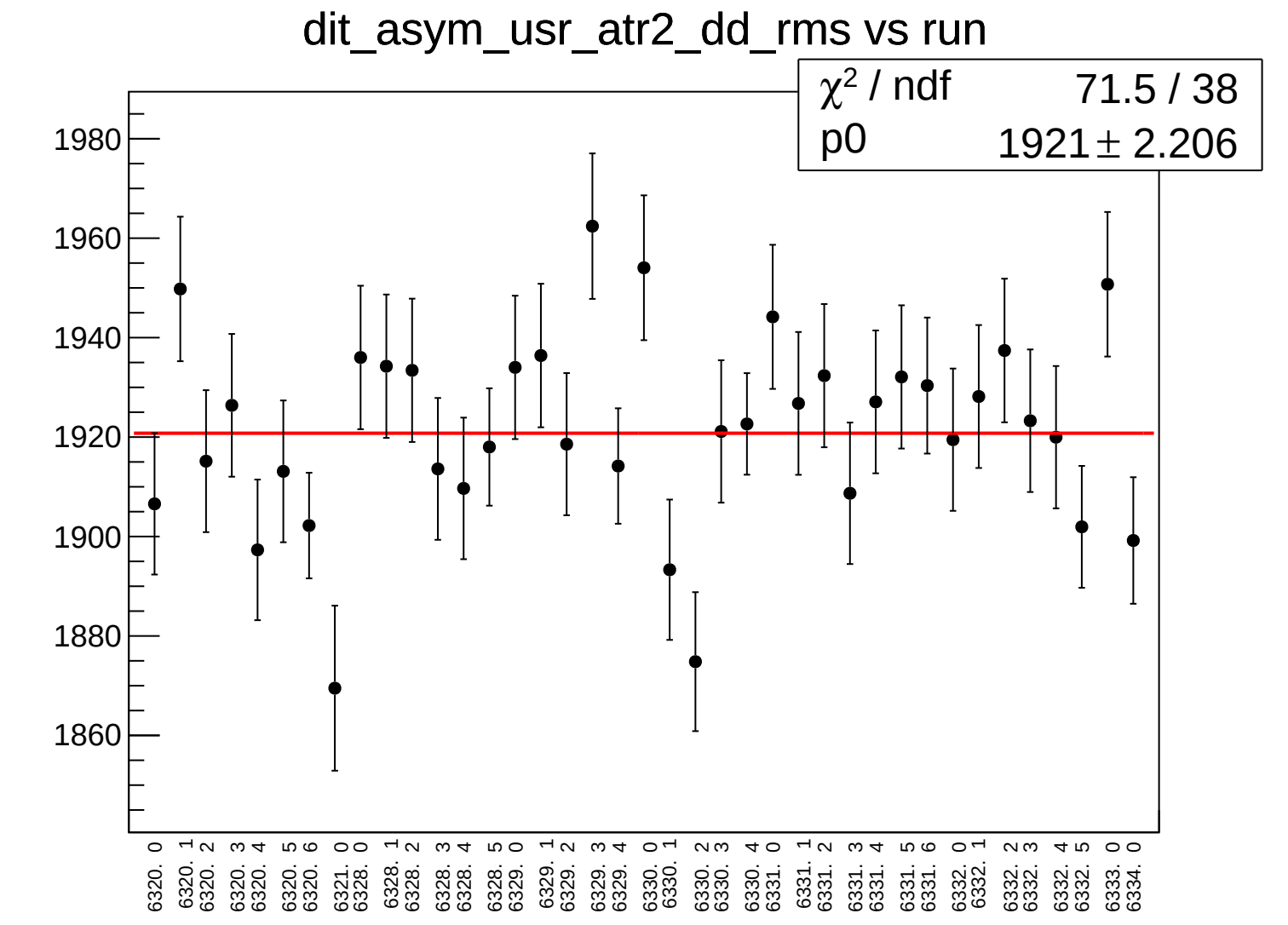

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.9 / 38
p0 −8227 ± 1.061e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.931
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

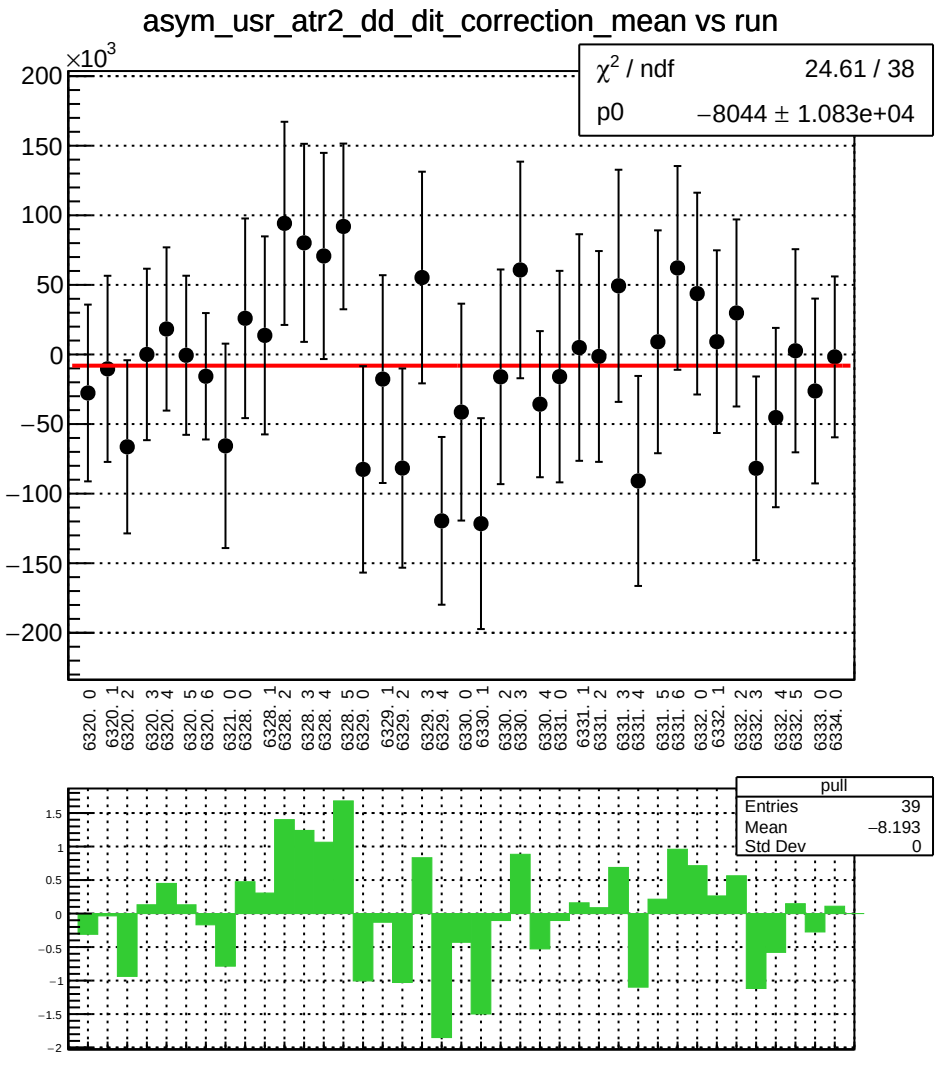

pull1D
Entries 39
Mean 0.01488
Std Dev 0.7989
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

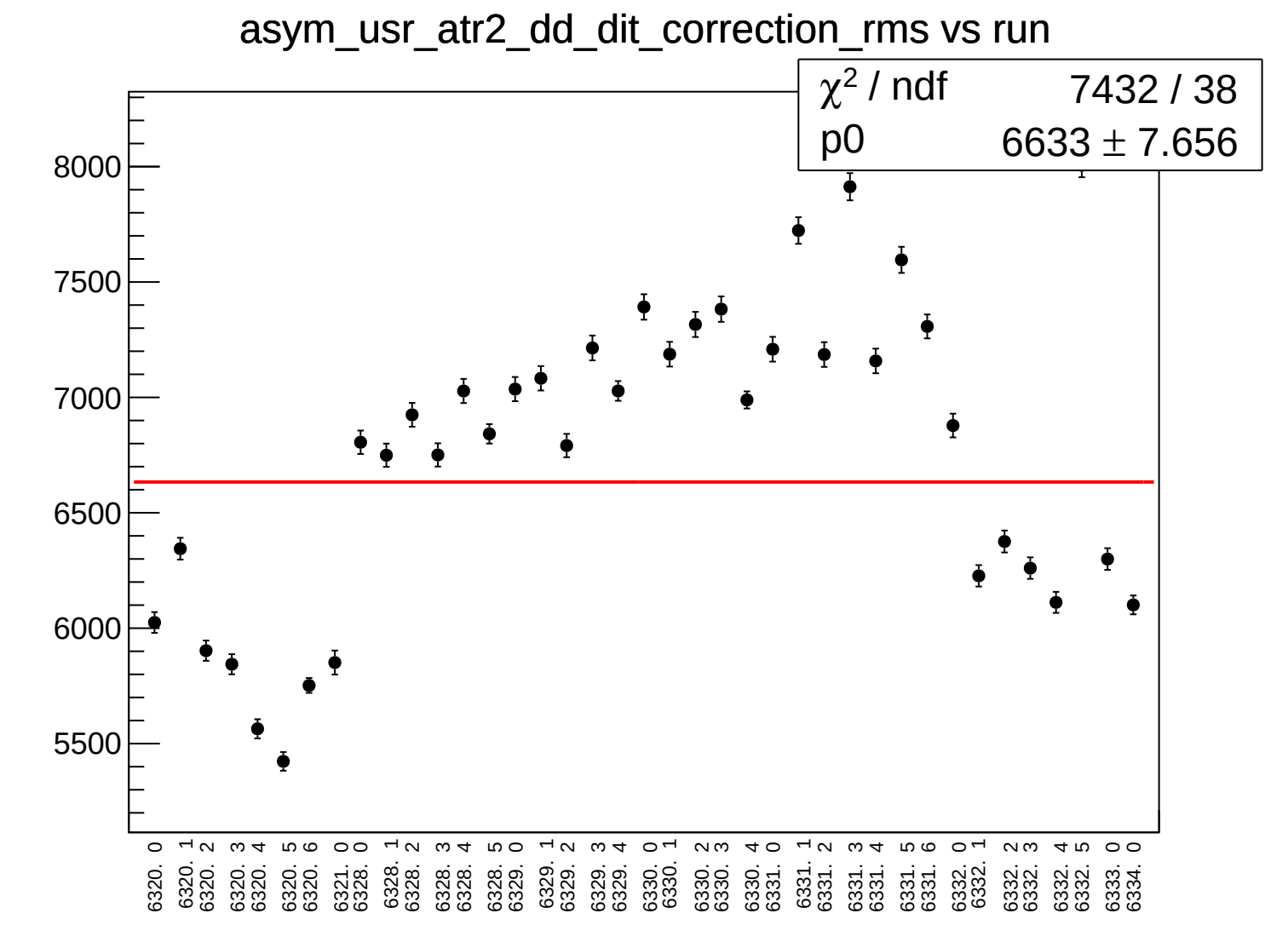

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8787 / 38
p0 6497 ± 7.506
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

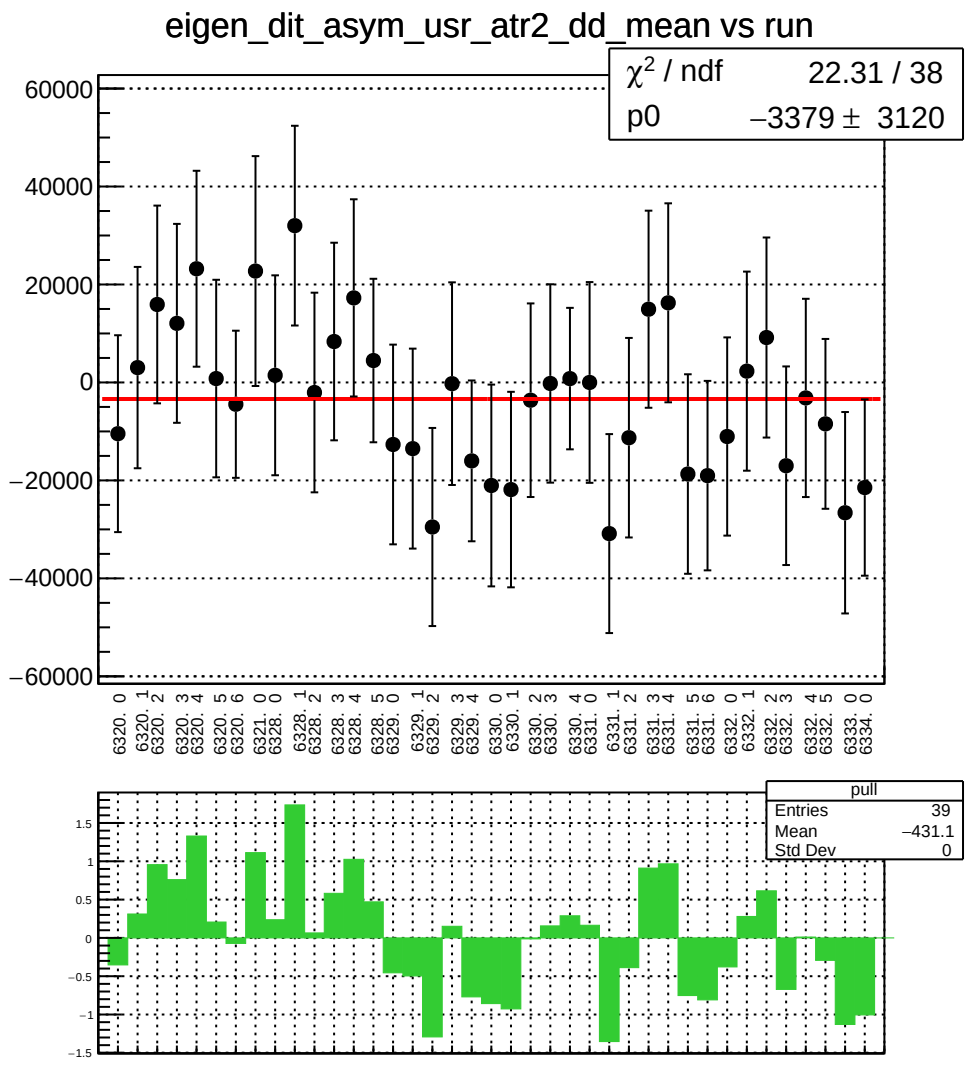

dit_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 22.31 / 38
p0 −3379 ± 3120
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −431.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

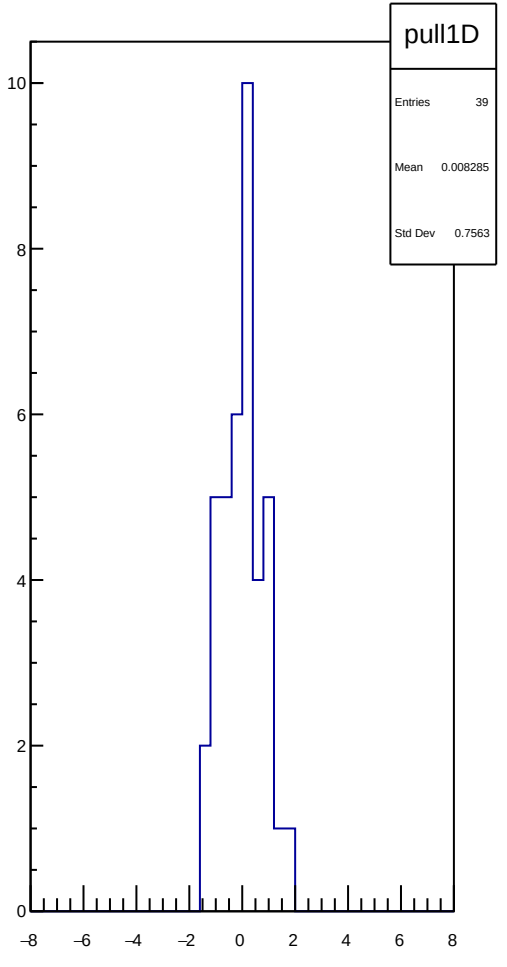

pull1D
Entries 39
Mean 0.008285
Std Dev 0.7563
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

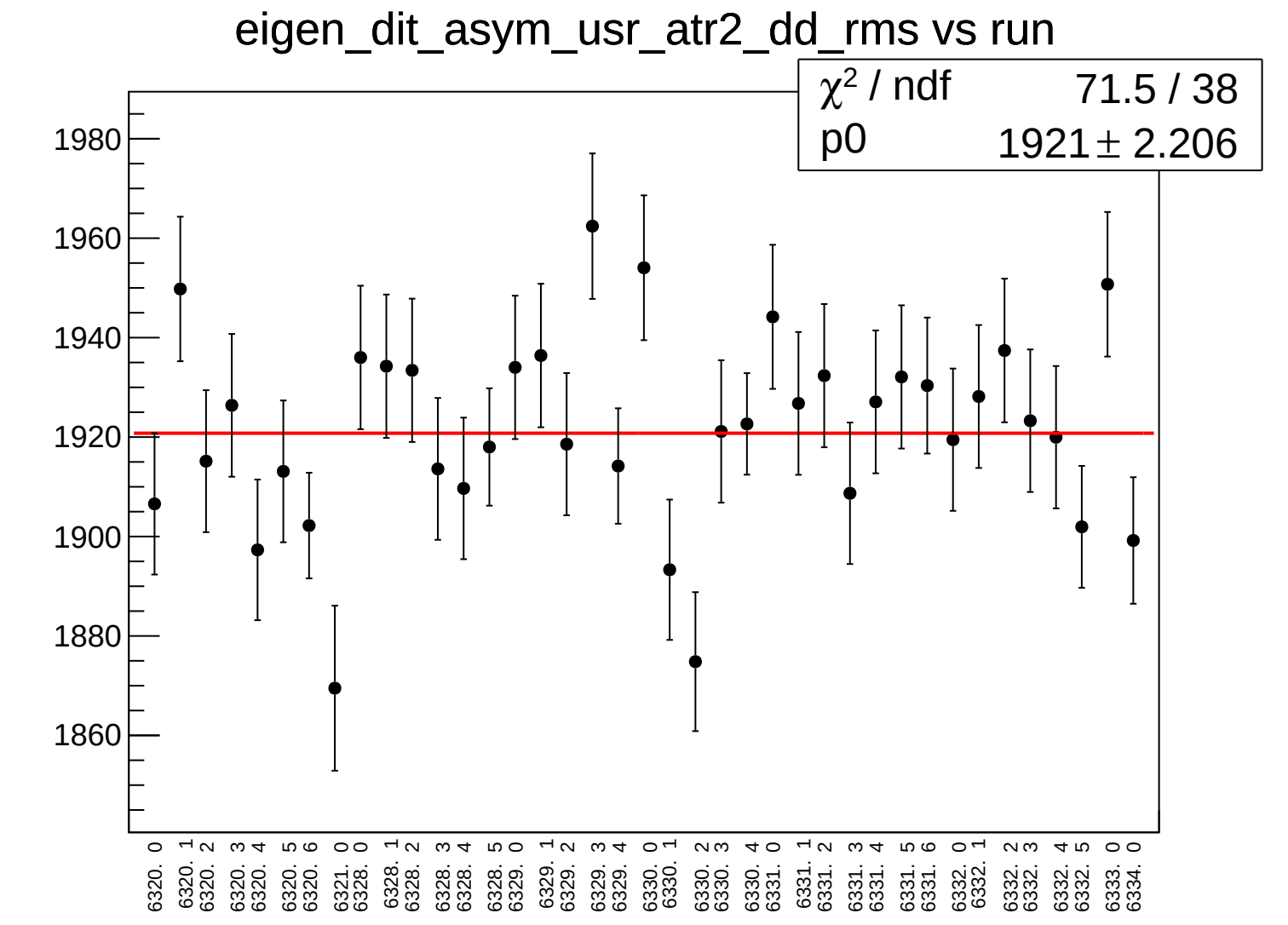

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 71.5 / 38
p0 1921 ± 2.206
1980
1960
1940
1920
1900
1880
1860
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

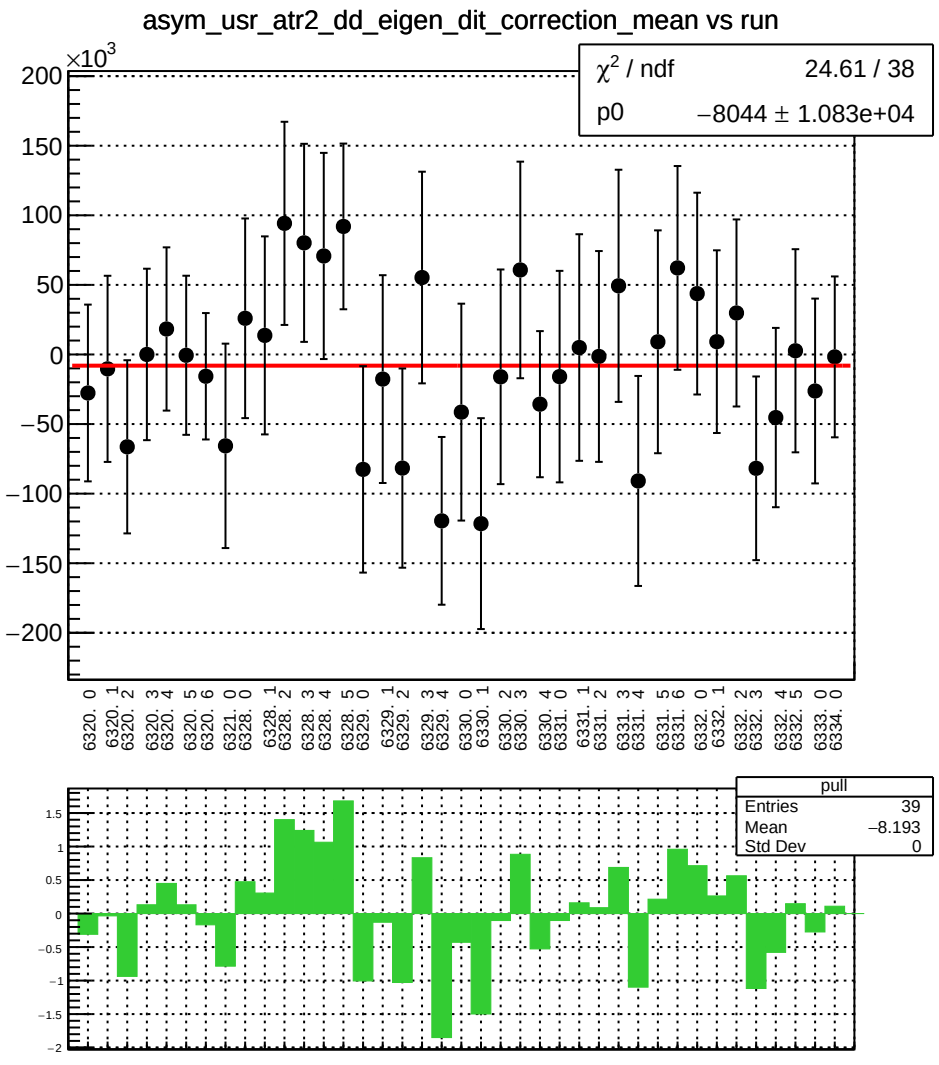

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.61 / 38
p0 −8044 ± 1.083e+04
pull
Entries 39
Mean −8.193
Std Dev 0
pull1D
Entries 39
Mean 0.01341
Std Dev 0.7942

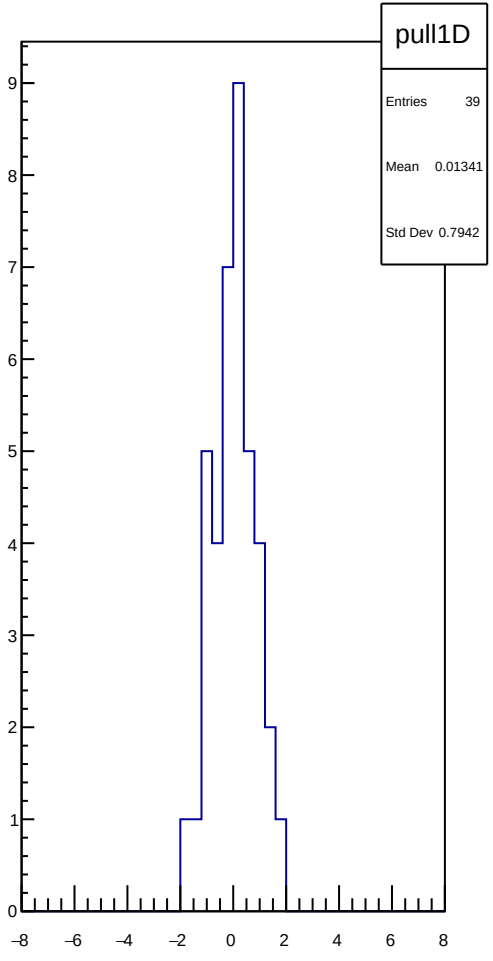

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 7432 / 38
p0 6633 ± 7.656
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

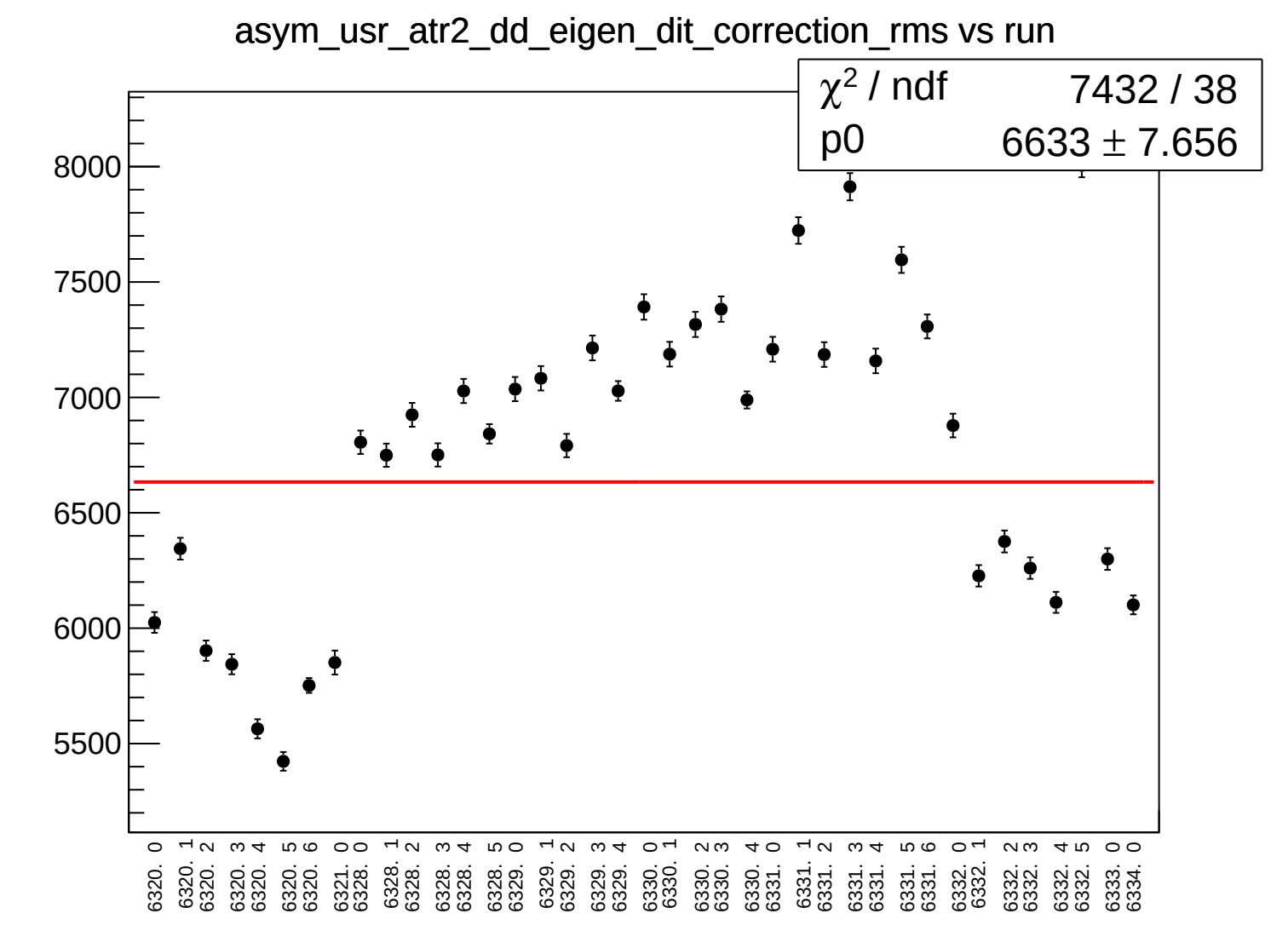

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 22.31 / 38
p0 −3379 ± 3120
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −431.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

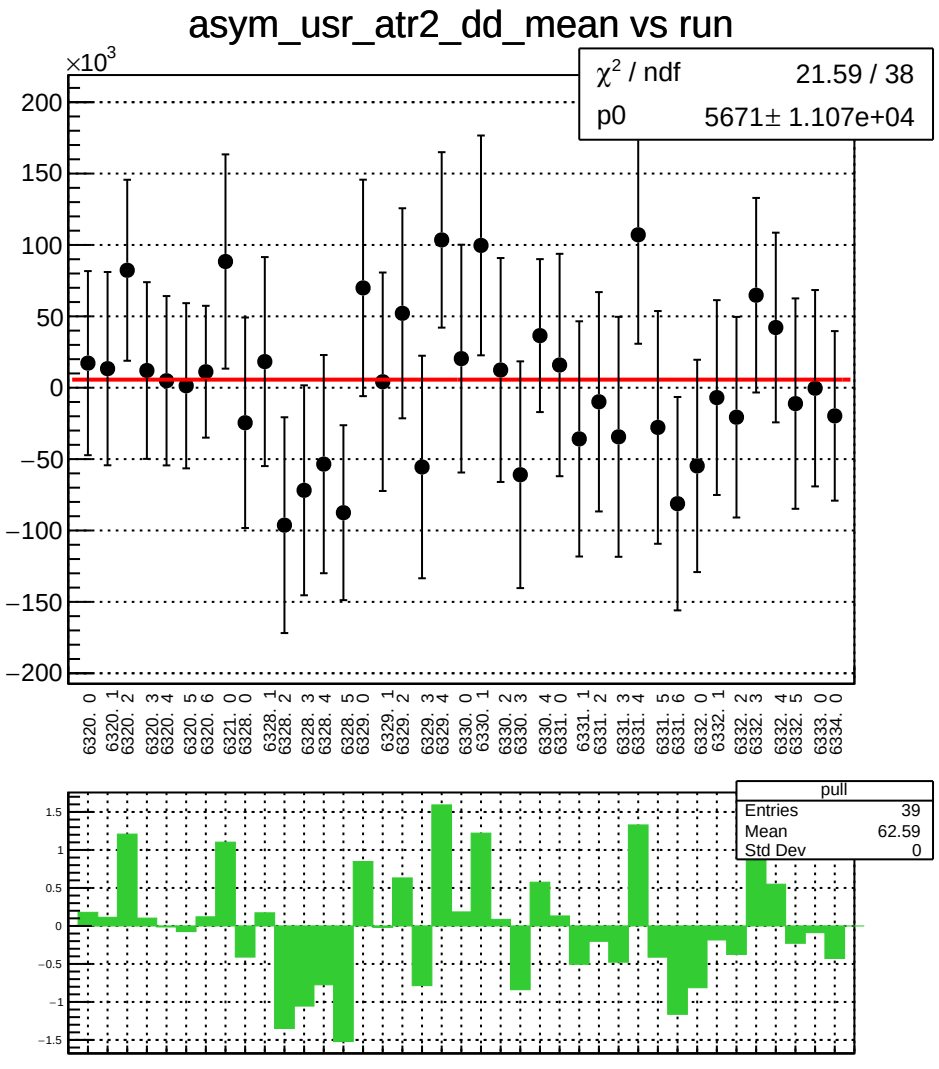

pull1D
Entries 39
Mean 0.008285
Std Dev 0.7563
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

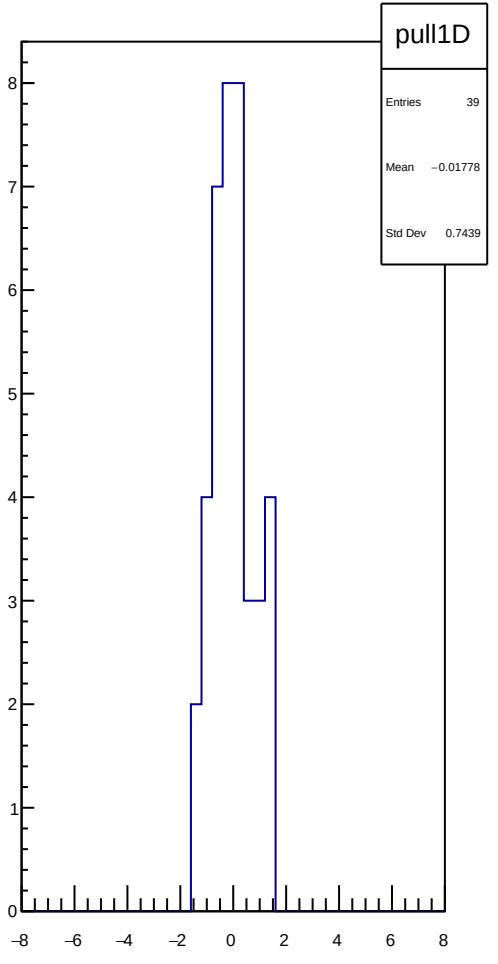

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 71.5 / 38
p0 1921 ± 2.206
1980
1960
1940
1920
1900
1880
1860
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

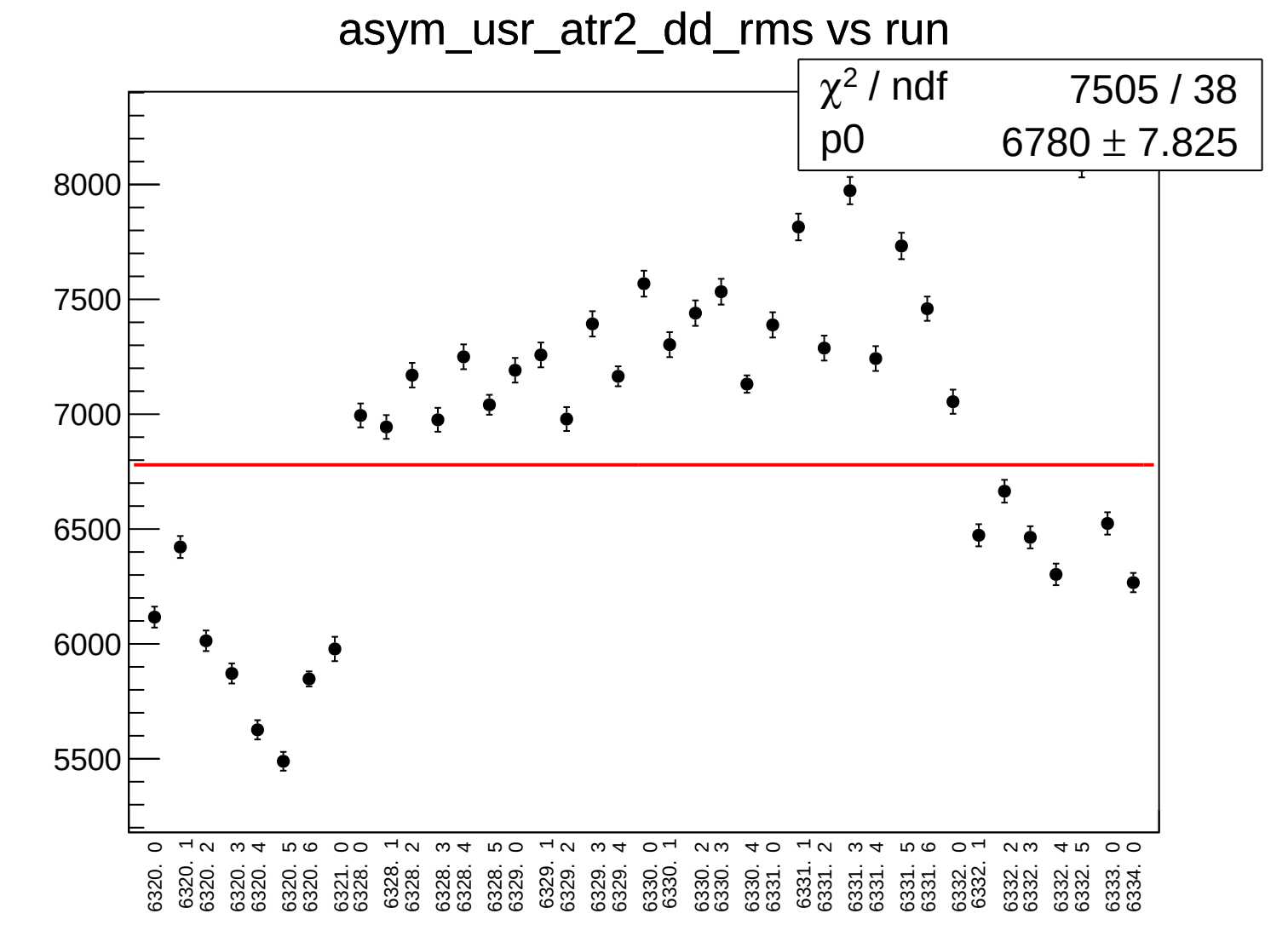

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.61 / 38
p0 −8044 ± 1.083e+04
pull
Entries 39
Mean −8.193
Std Dev 0

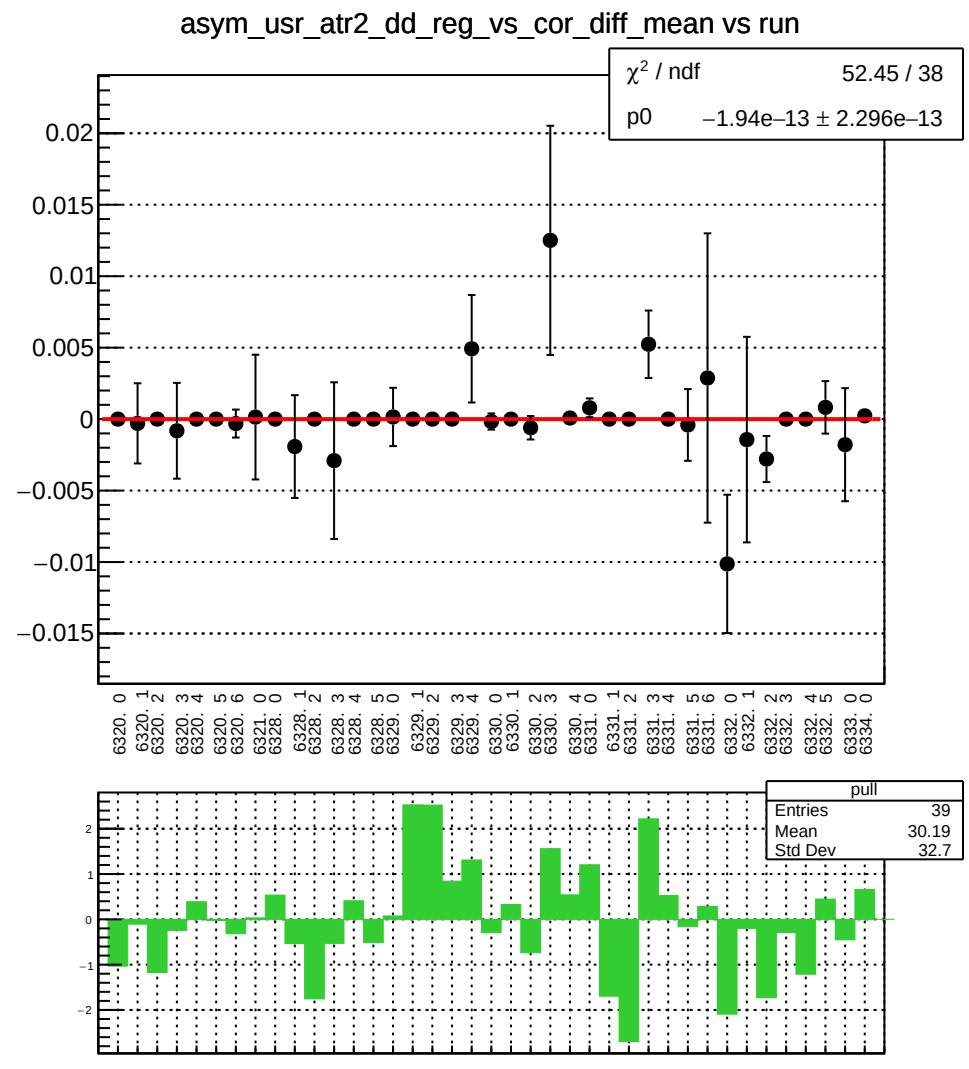

pull1D
Entries 39
Mean 0.01341
Std Dev 0.7942

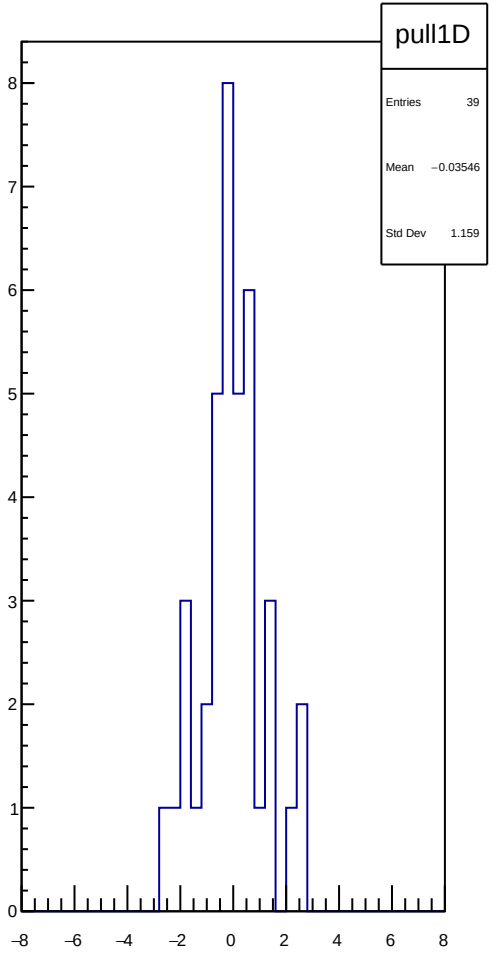

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7432 / 38
p0 6633 ± 7.656
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

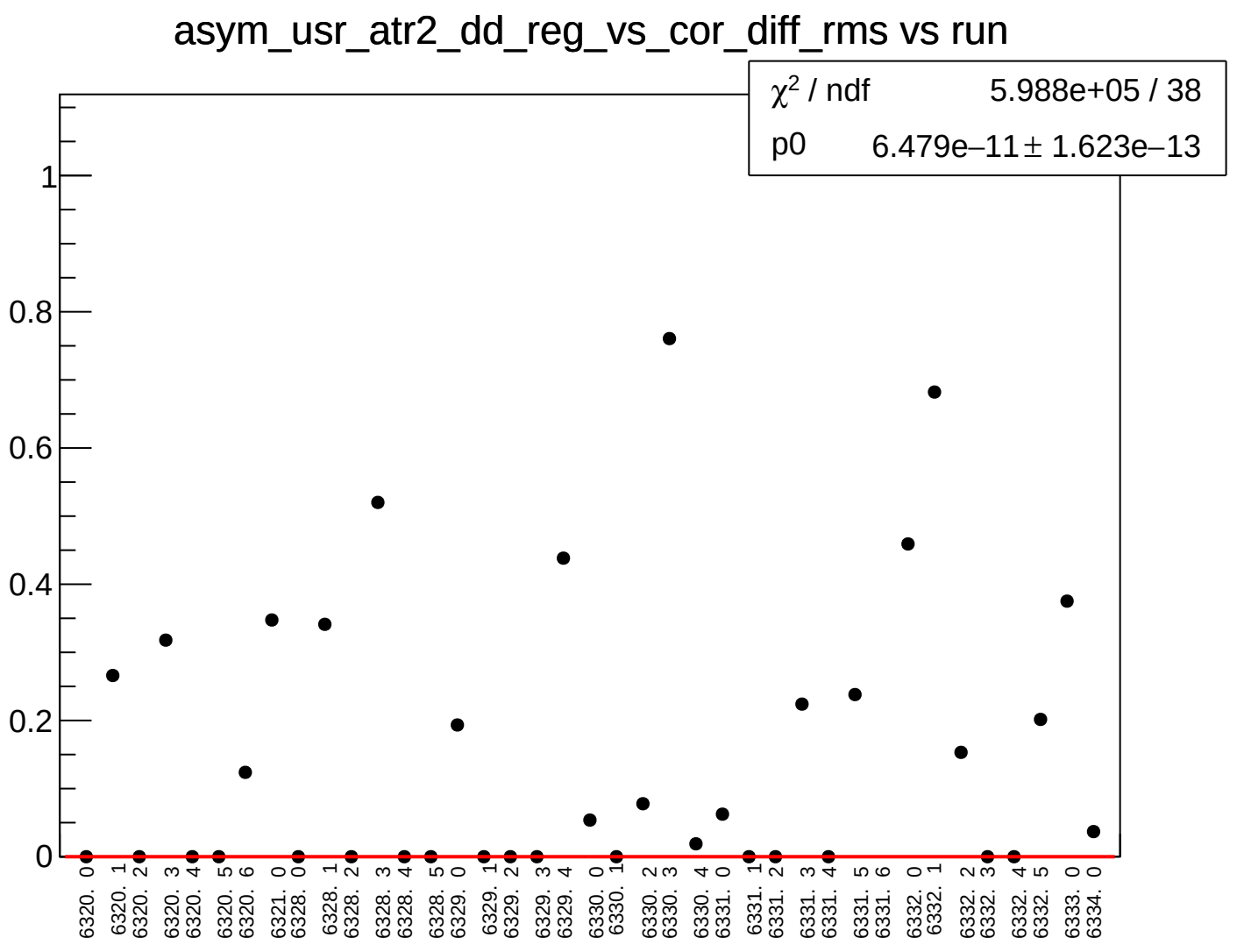

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 21.59 / 38
p0 5671± 1.107e+04
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 62.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

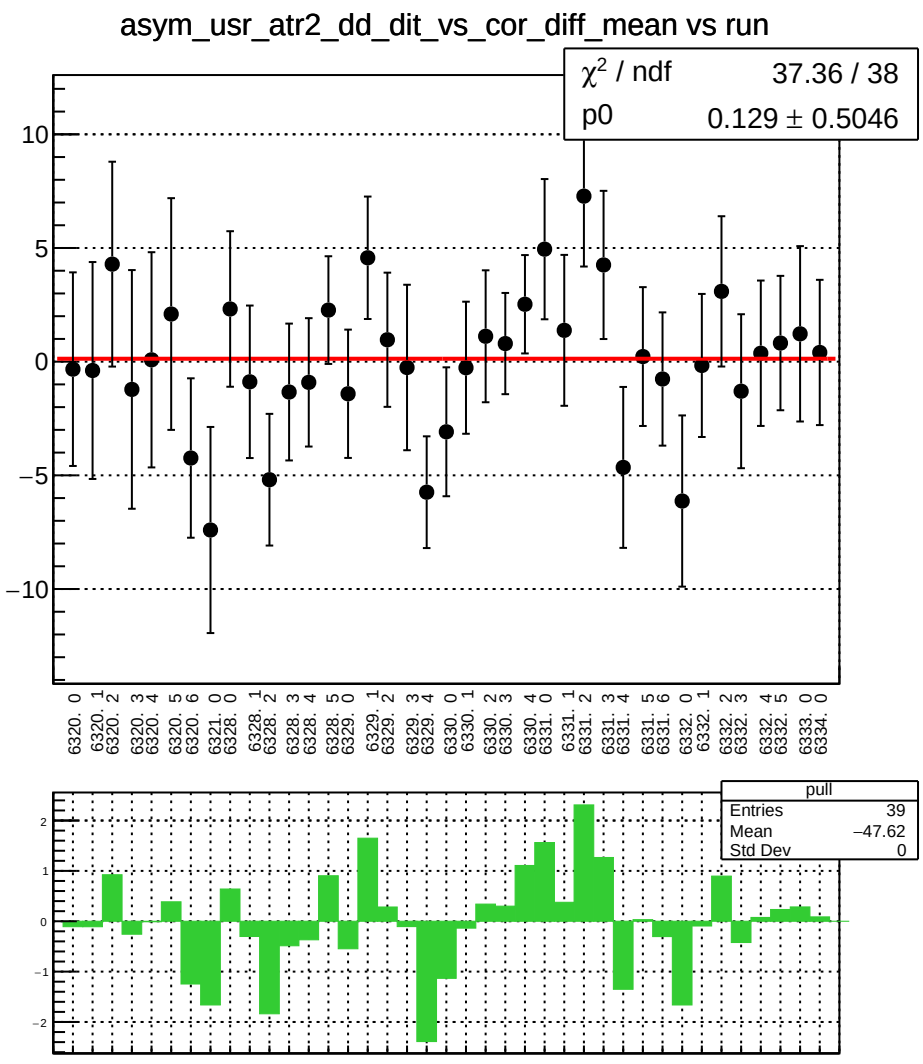

pull1D
Entries 39
Mean −0.01778
Std Dev 0.7439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

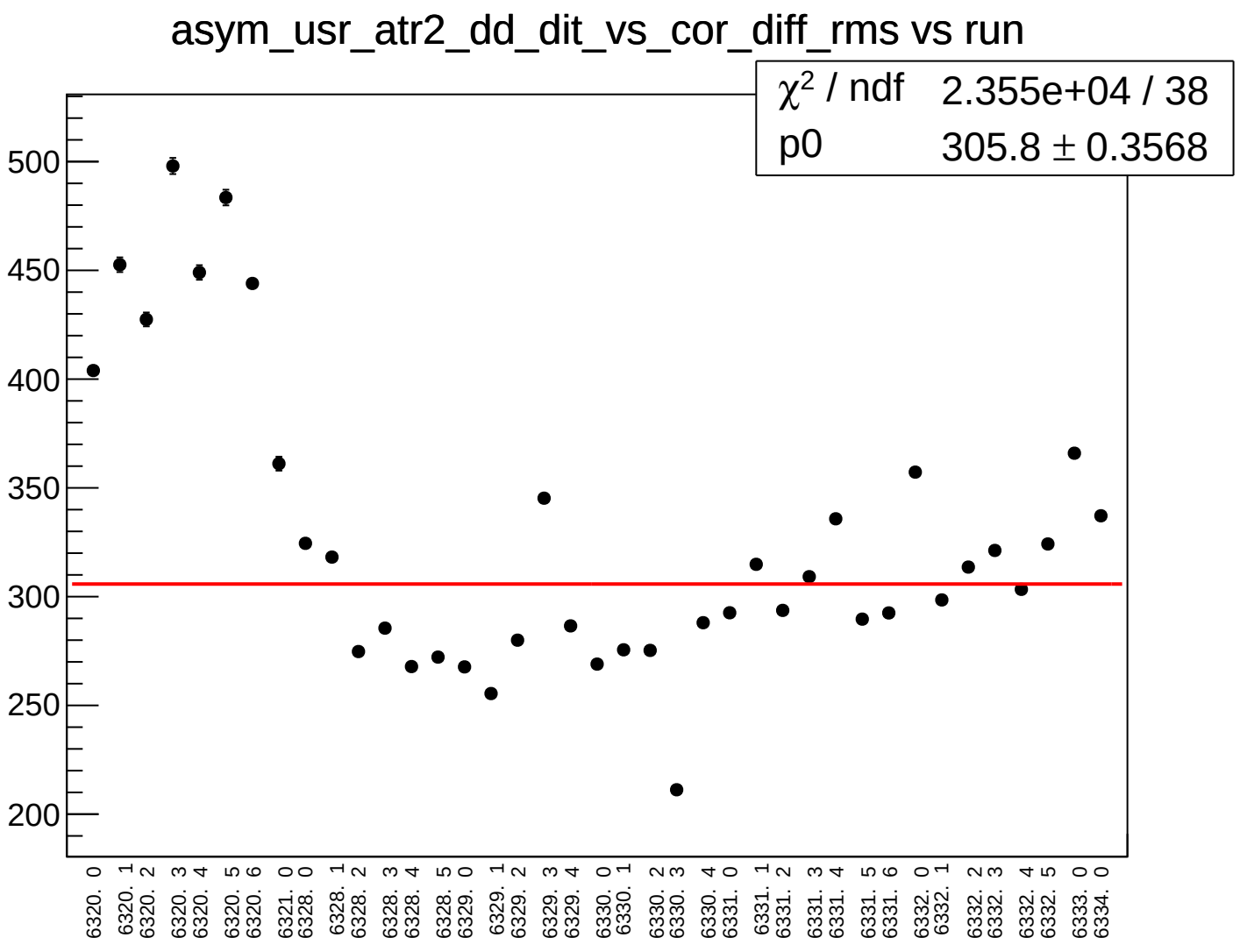

asym_usr_atr2_dd_rms vs run
χ² / ndf 7505 / 38
p0 6780 ± 7.825
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

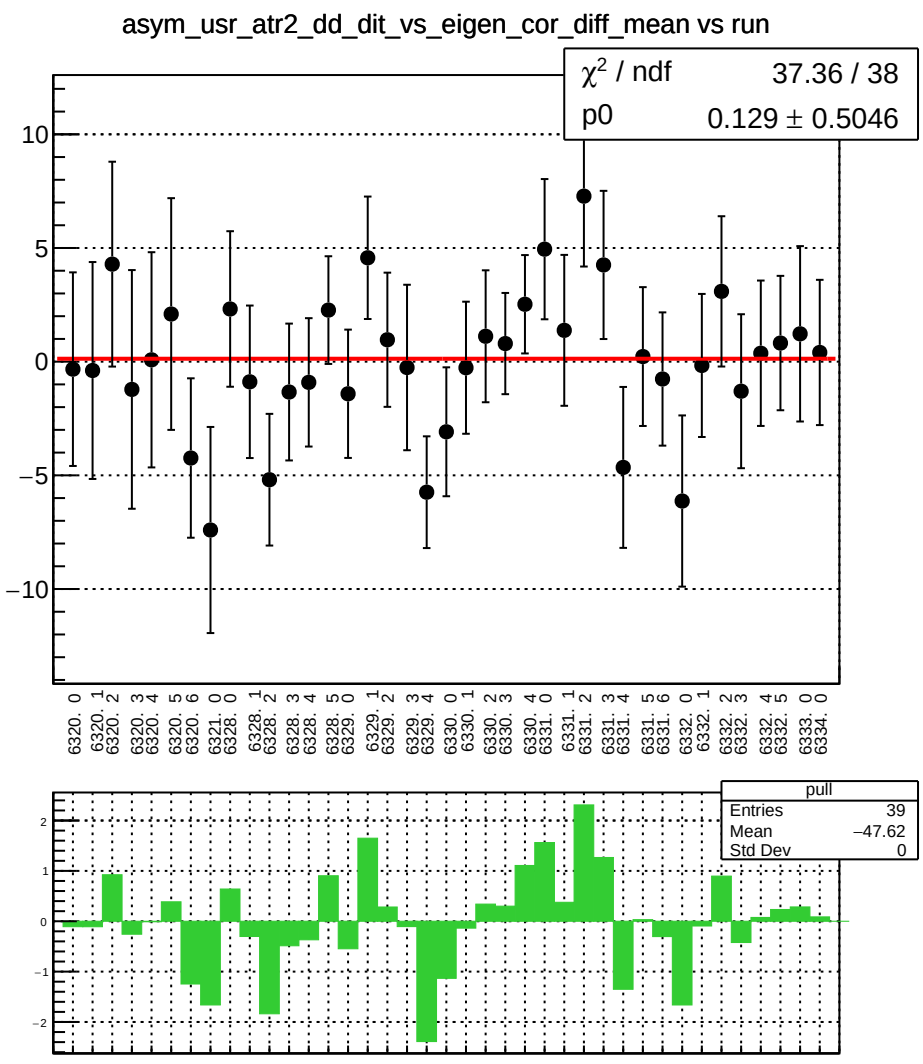

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.45 / 38
p0 −1.94e−13 ± 2.296e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.19
Std Dev 32.7
2
1
0
−1
−2

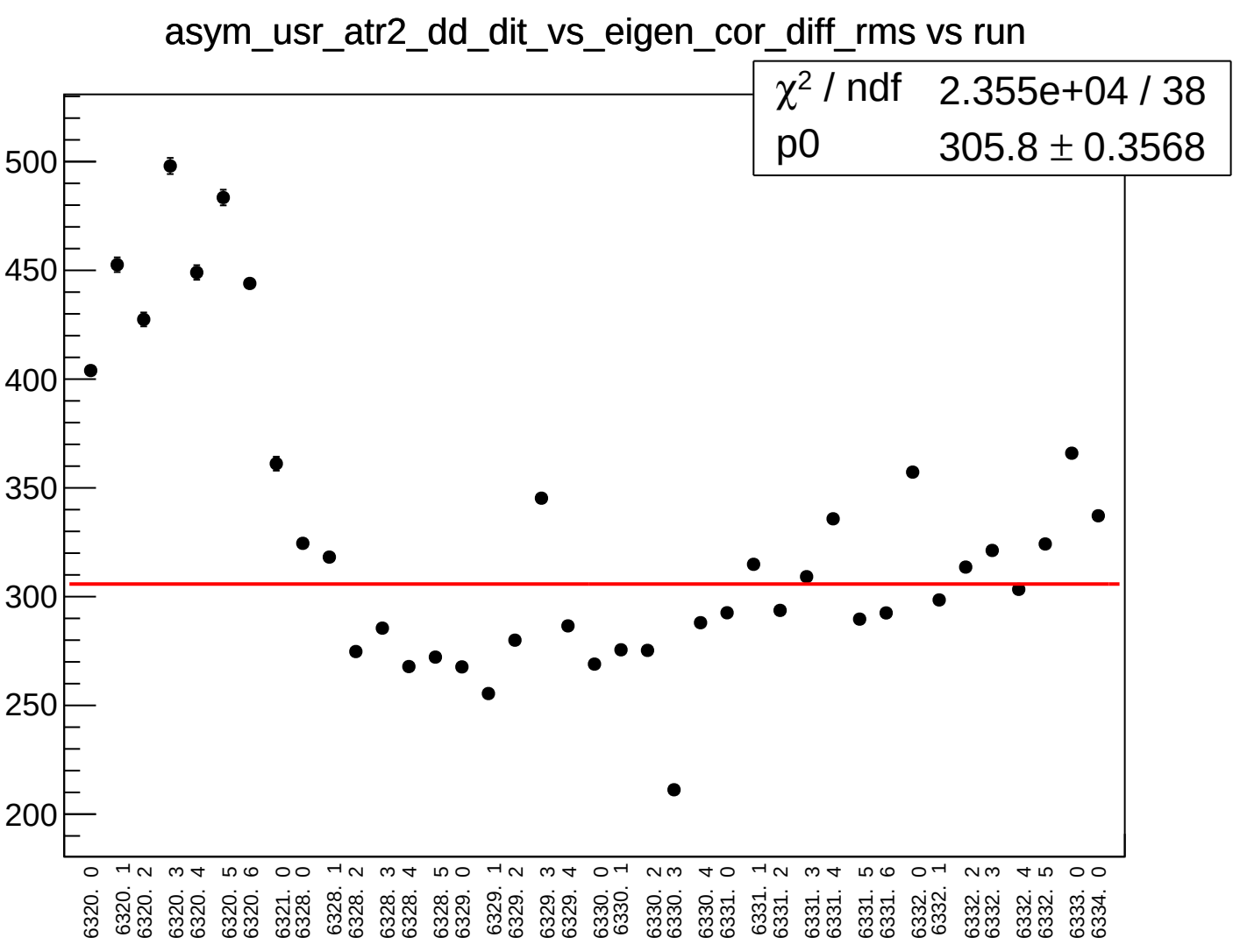

pull1D
Entries 39
Mean −0.03546
Std Dev 1.159
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

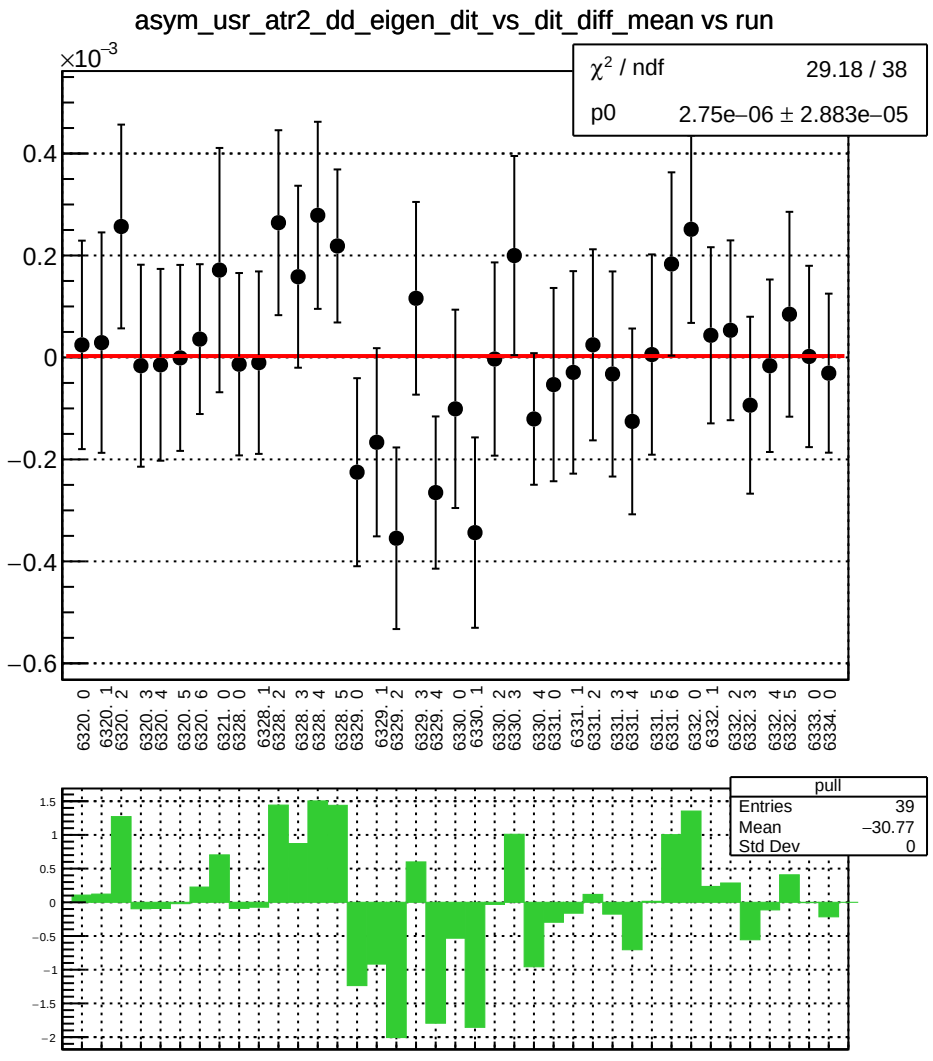

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.988e+05 / 38
p0 6.479e−11 ± 1.623e−13
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

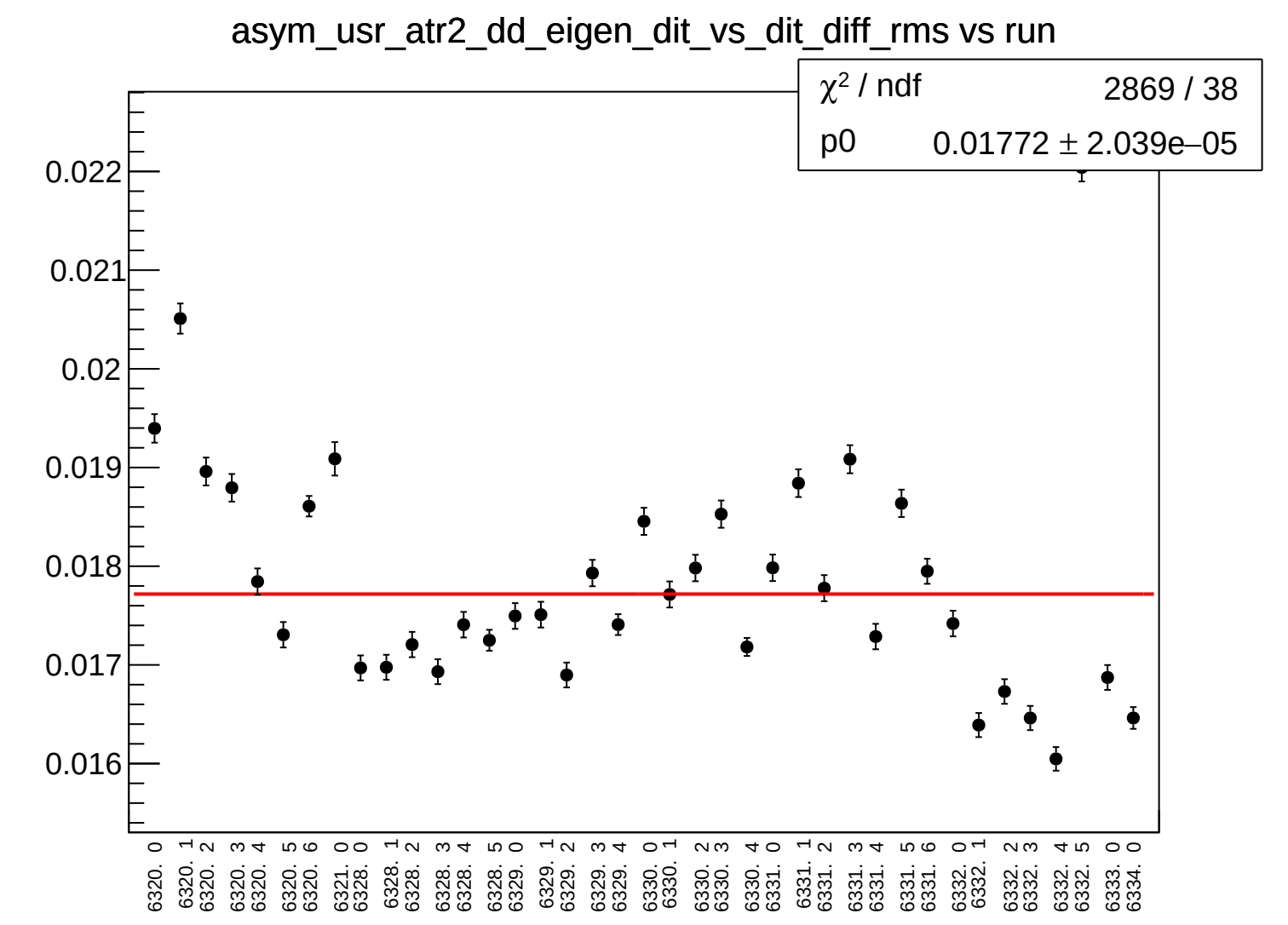

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.36 / 38
p0 0.129 ± 0.5046
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02246
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

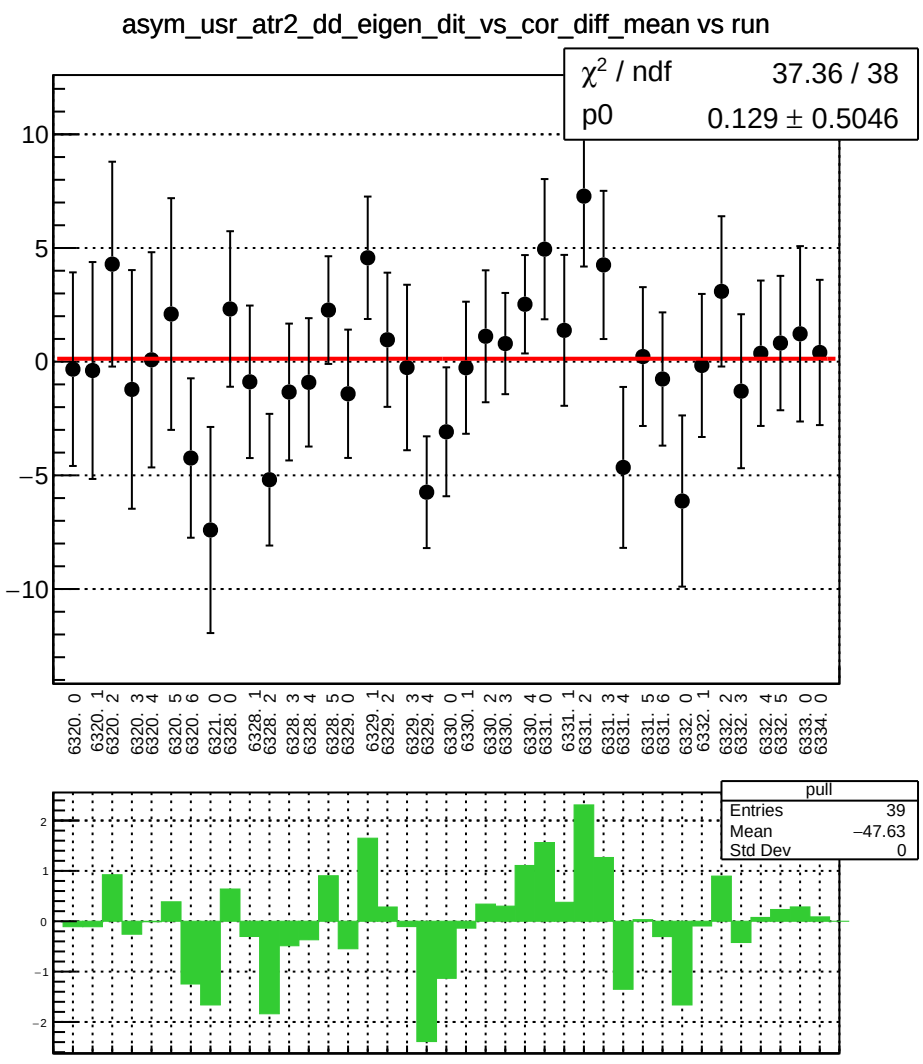

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.355e+04 / 38
p0 305.8 ± 0.3568
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

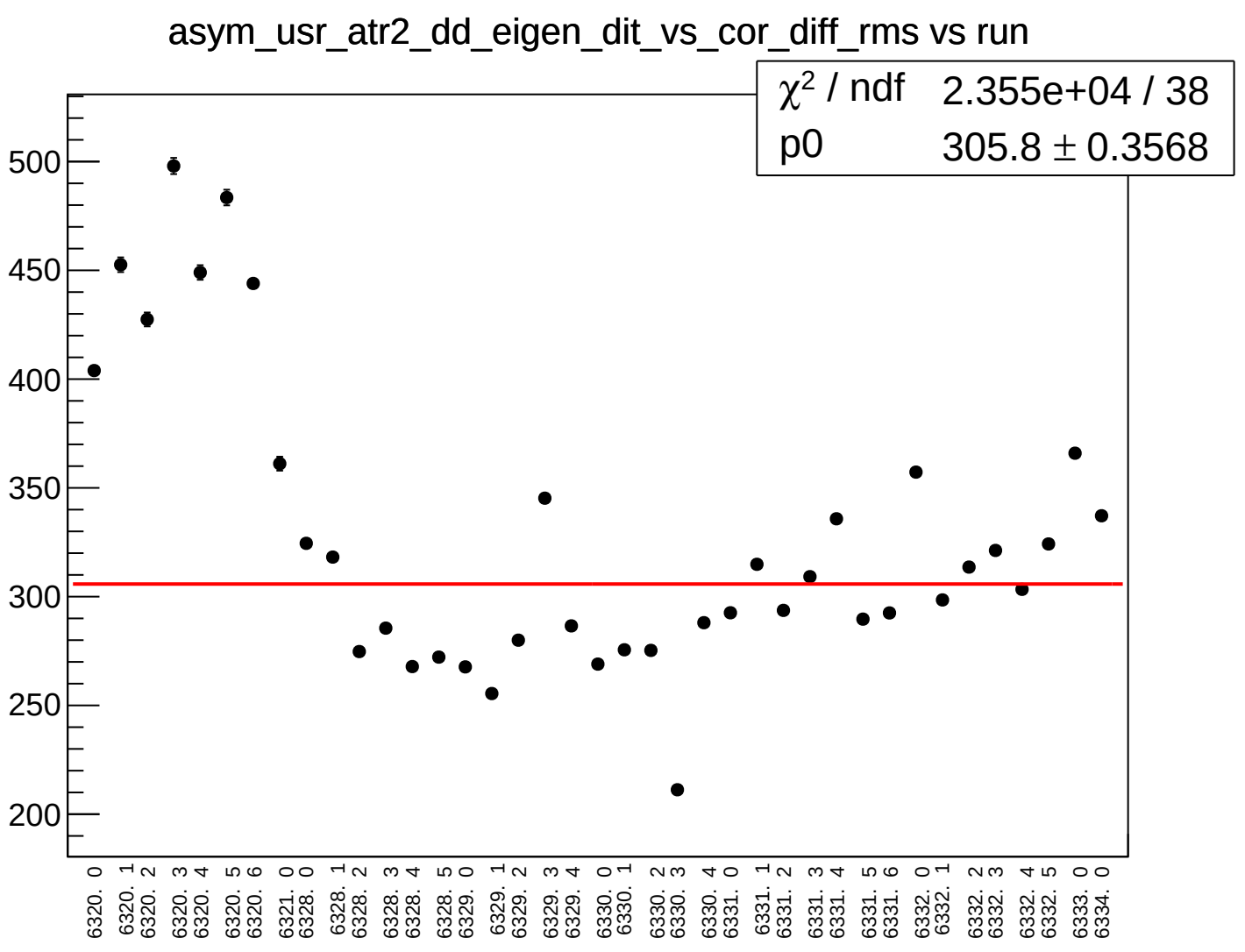

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.36 / 38
p0 0.129 ± 0.5046
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02246
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

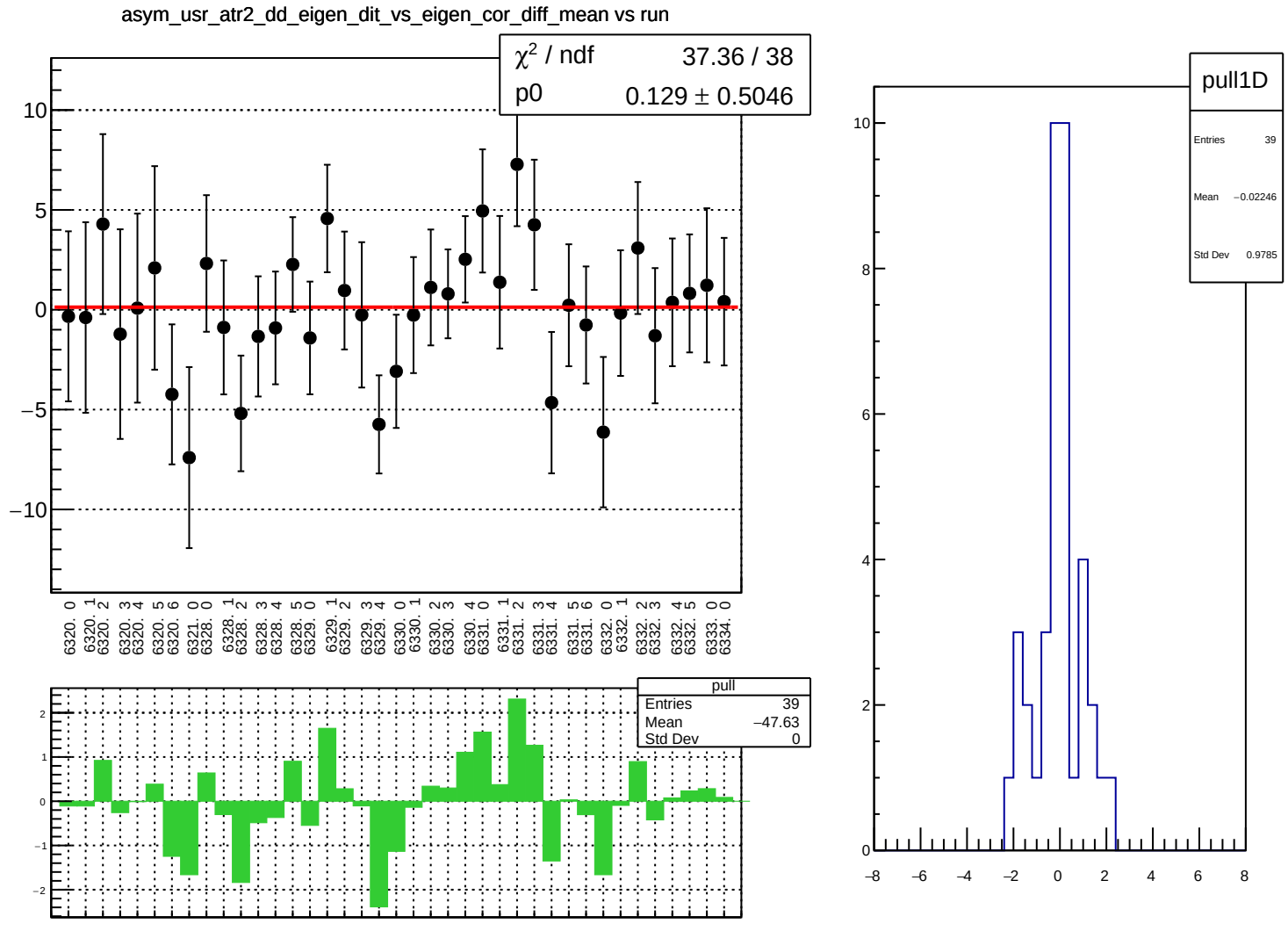

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.355e+04 / 38
p0 305.8 ± 0.3568
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

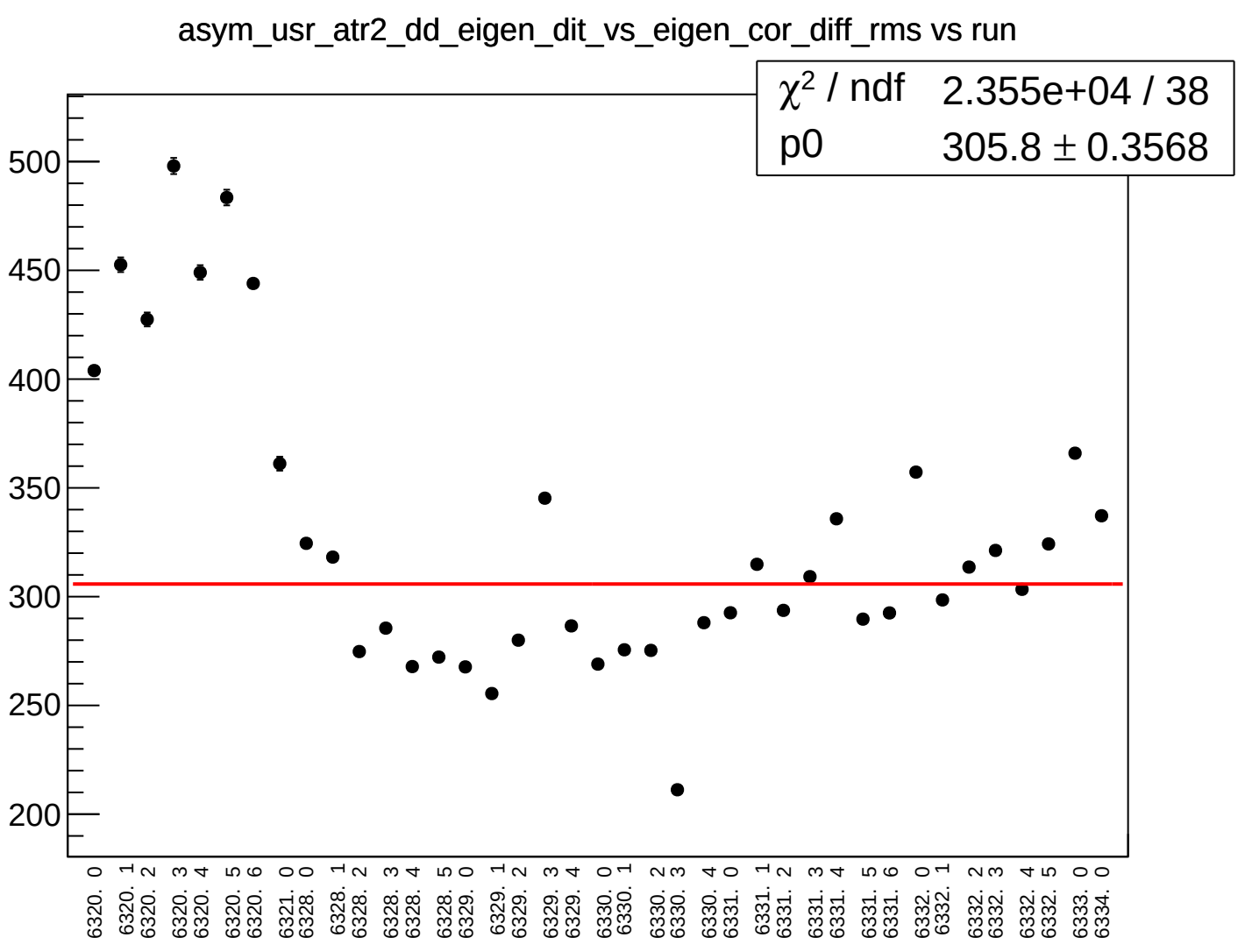

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.18 / 38
p0 2.75e−06 ± 2.883e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −30.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02036
Std Dev 0.8648
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

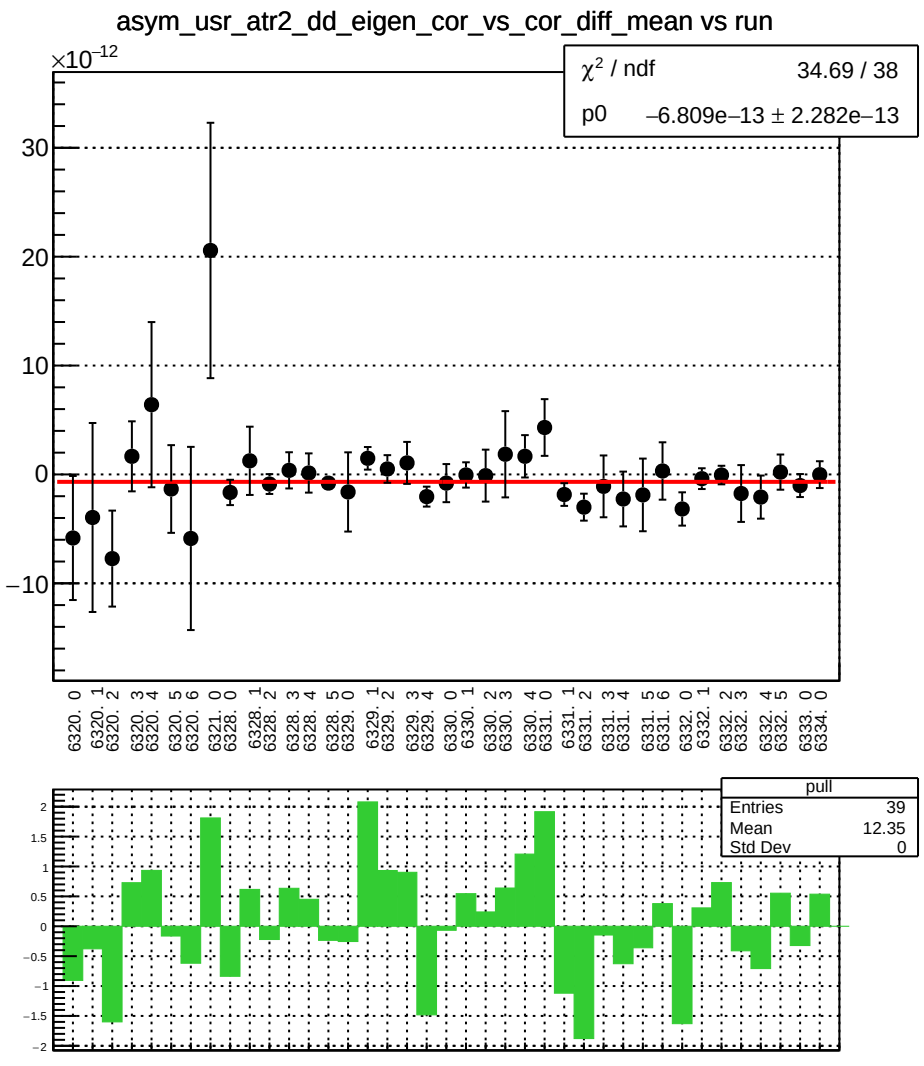

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2869 / 38
p0 0.01772 ± 2.039e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

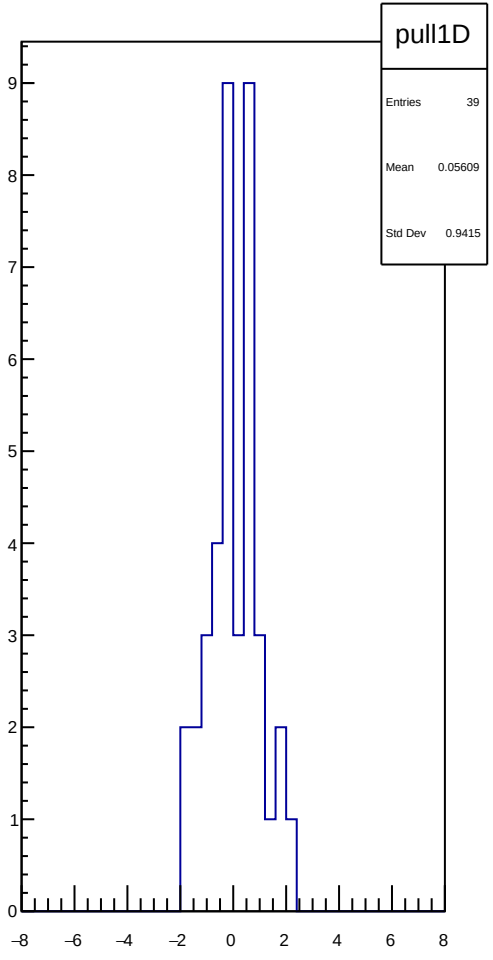

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.36 / 38
p0 0.129 ± 0.5046
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02246
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

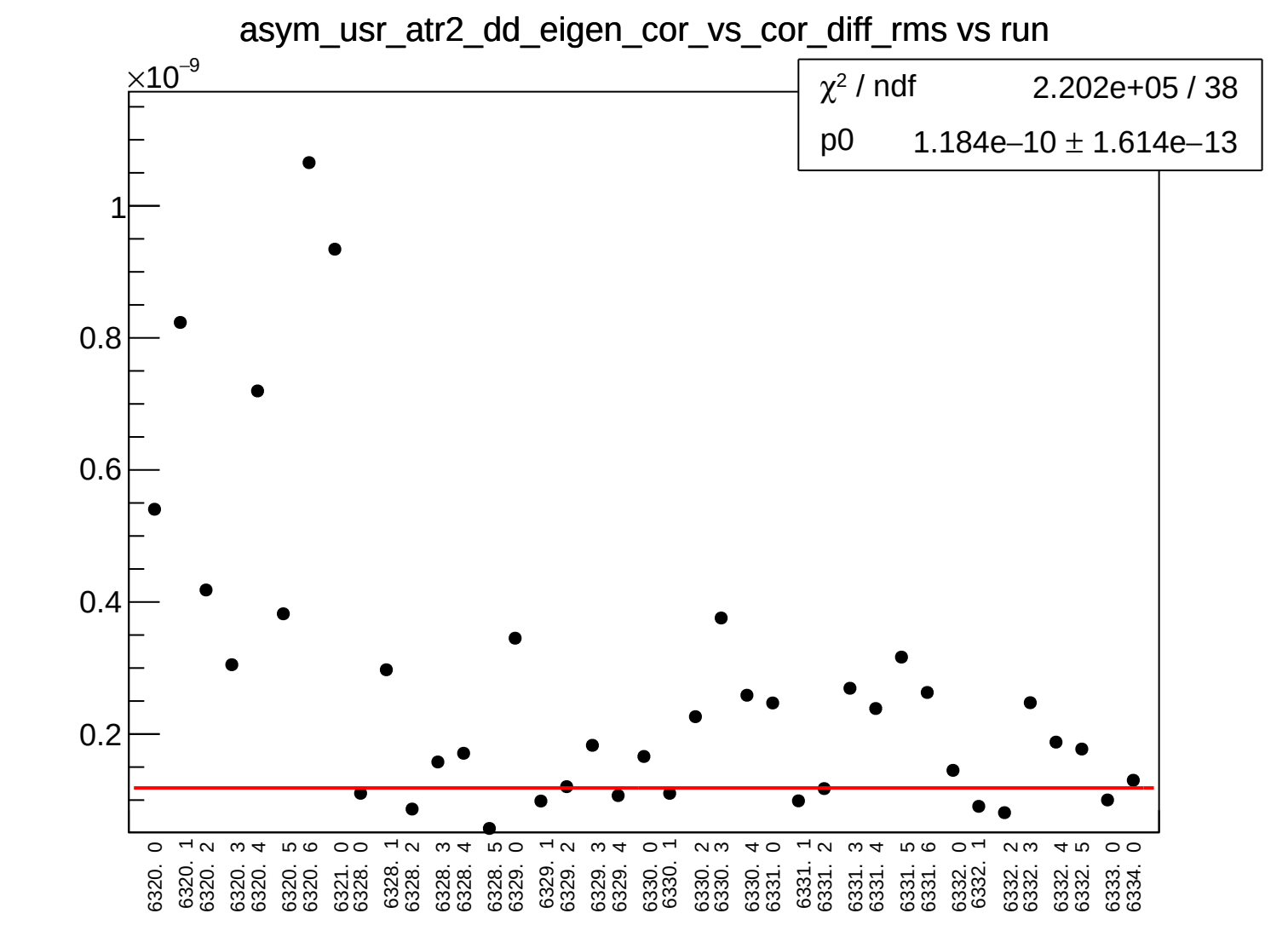

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.355e+04 / 38
p0 305.8 ± 0.3568
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

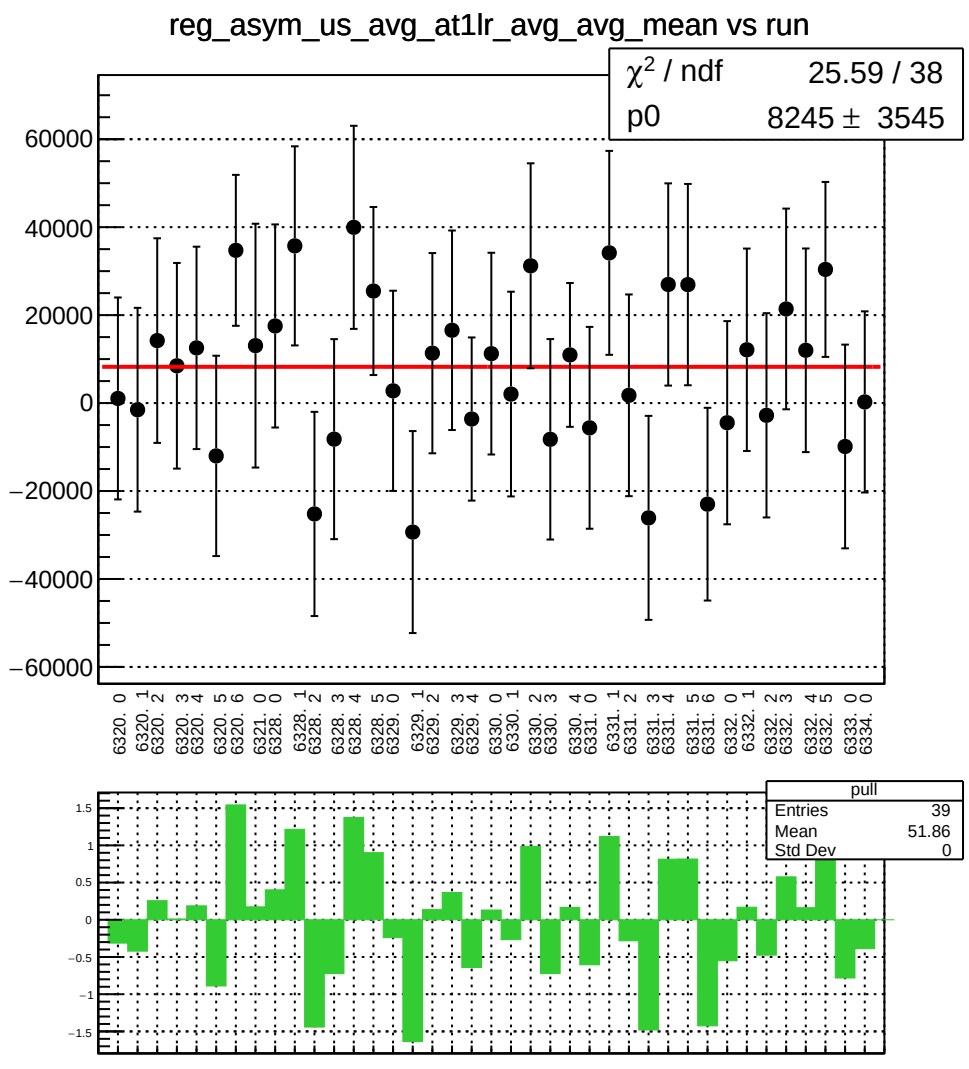

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.36 / 38
p0 0.129 ± 0.5046
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02246
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

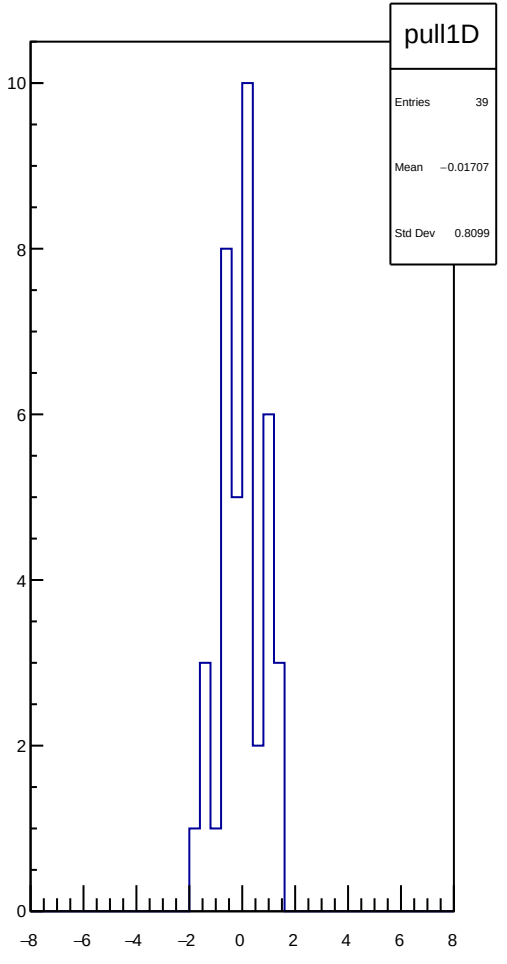

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.355e+04 / 38
p0 305.8 ± 0.3568
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

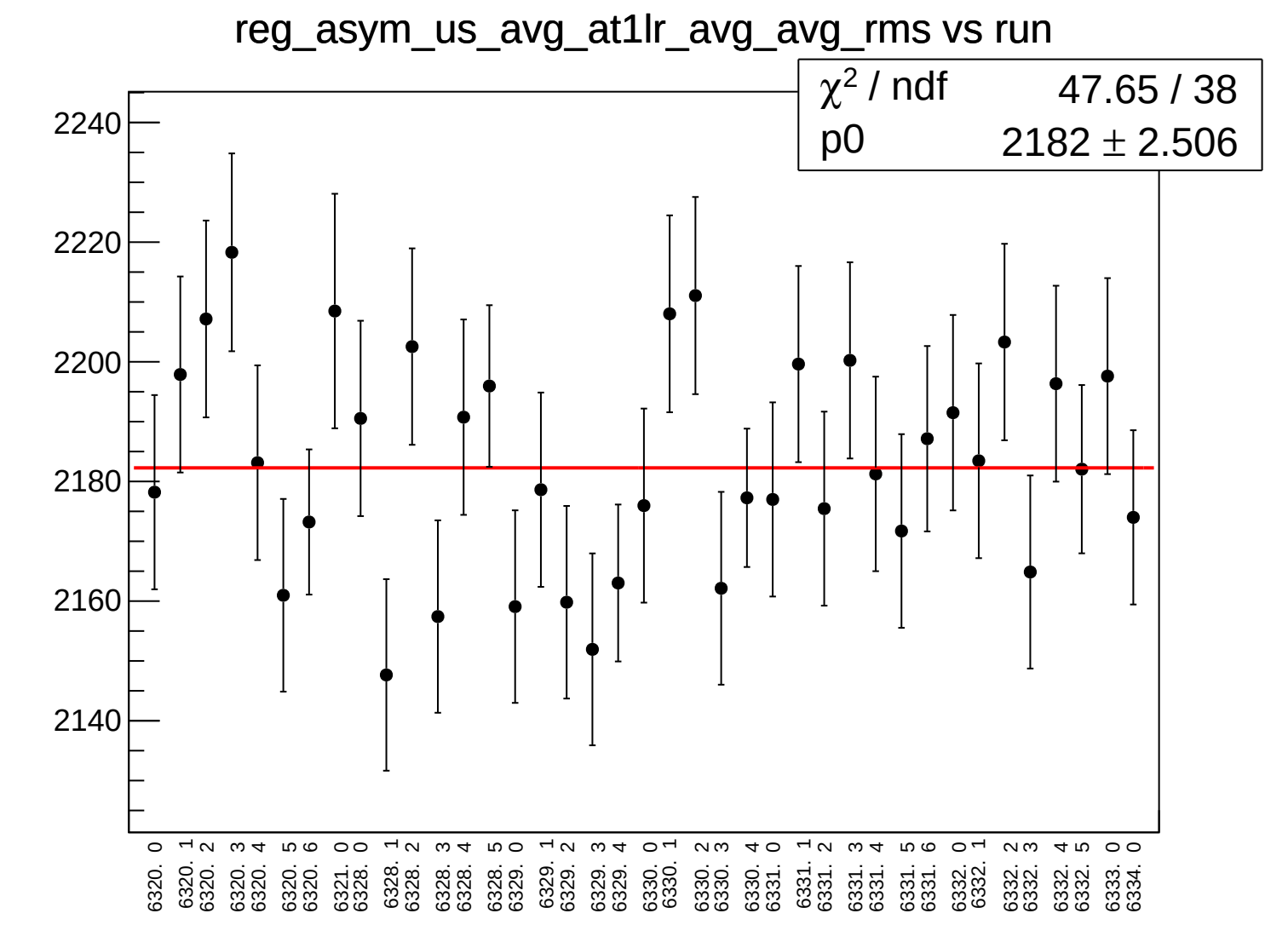

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.69 / 38
p0 −6.809e−13 ± 2.282e−13
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 12.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

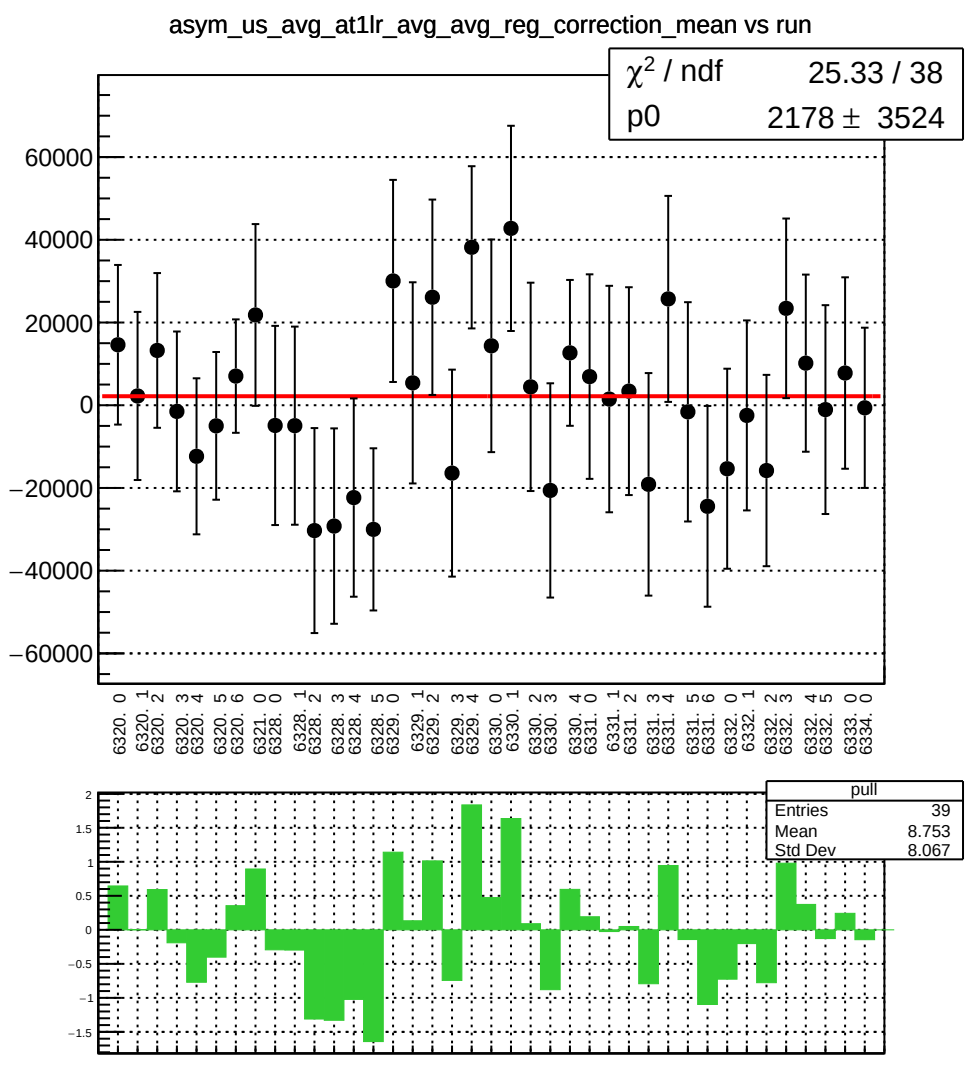

pull1D
Entries 39
Mean 0.05609
Std Dev 0.9415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

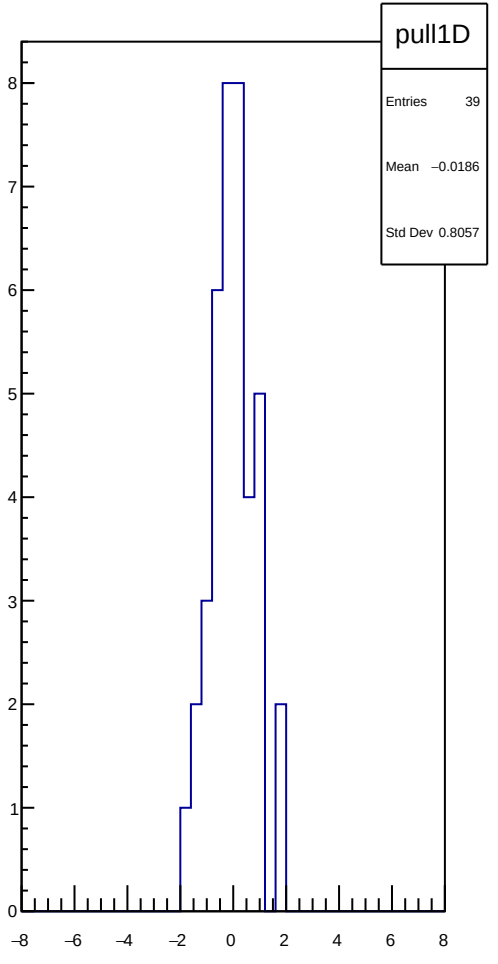

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.202e+05 / 38
p0 1.184e−10 ± 1.614e−13
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

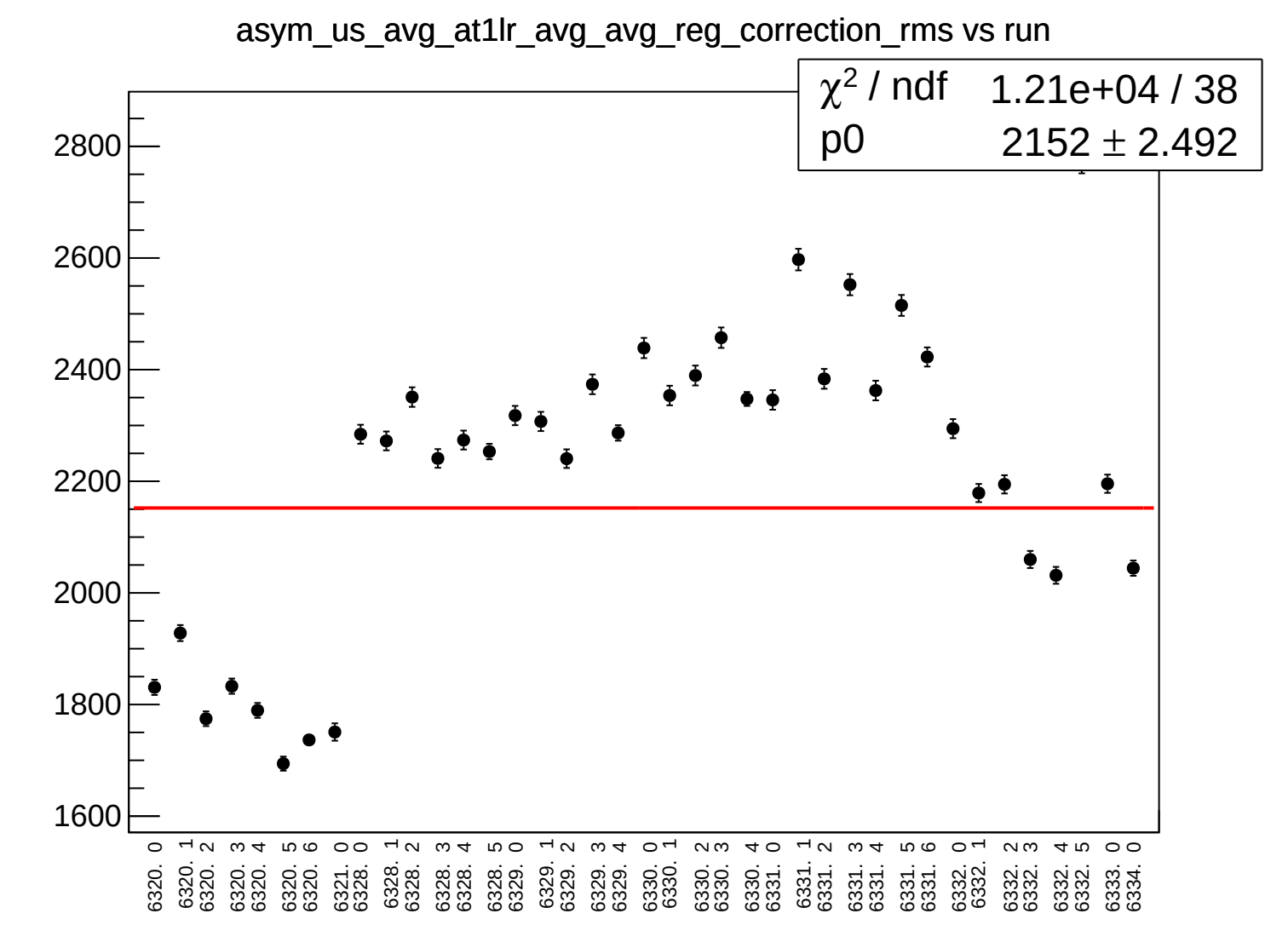

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 25.59 / 38
p0 8245 ± 3545
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

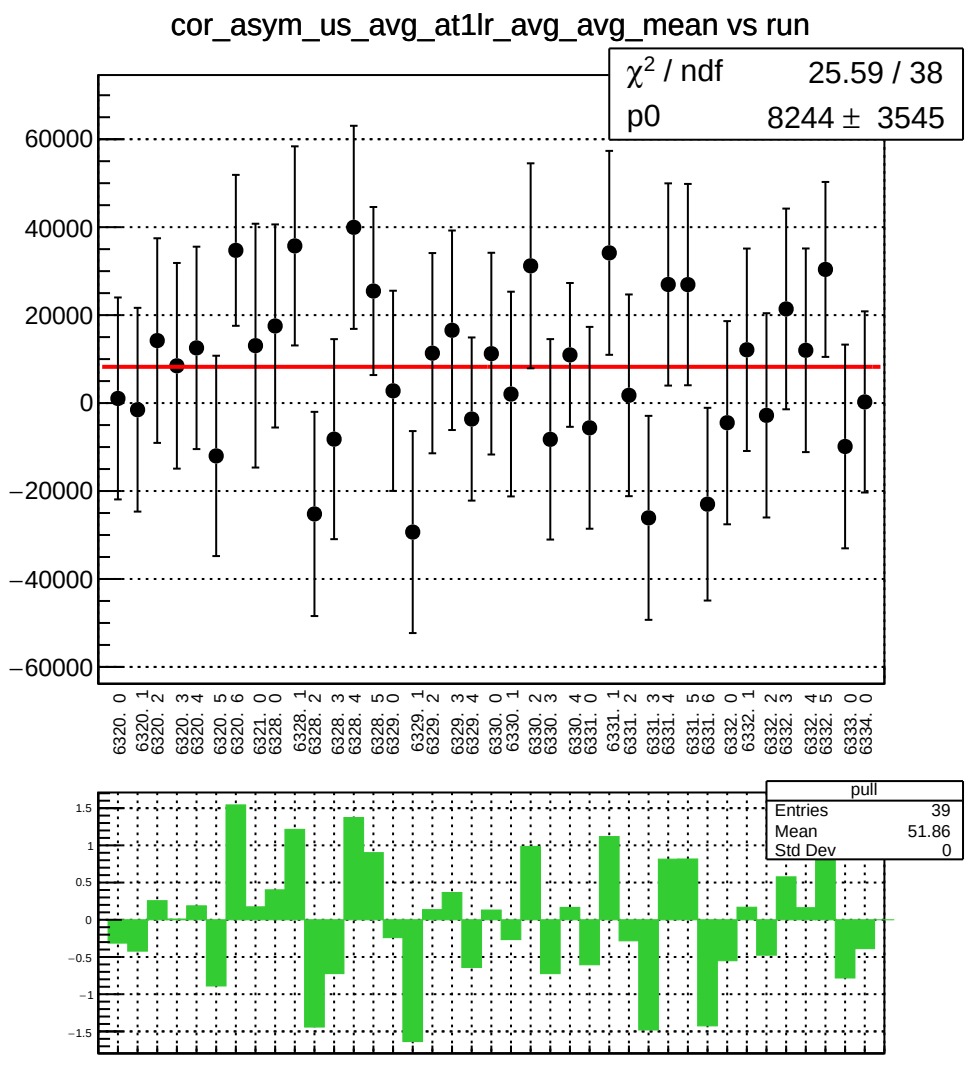

pull1D
Entries 39
Mean −0.01707
Std Dev 0.8099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

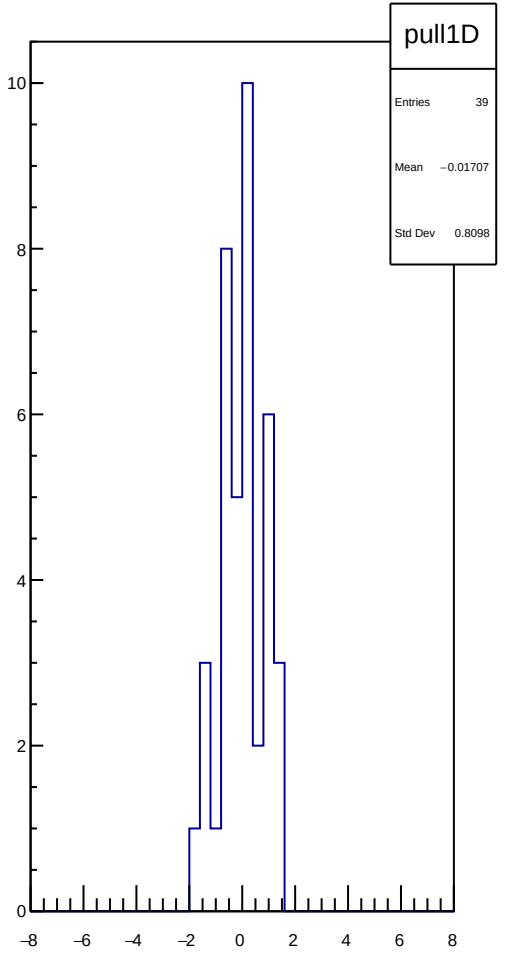

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 47.65 / 38
p0 2182 ± 2.506
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

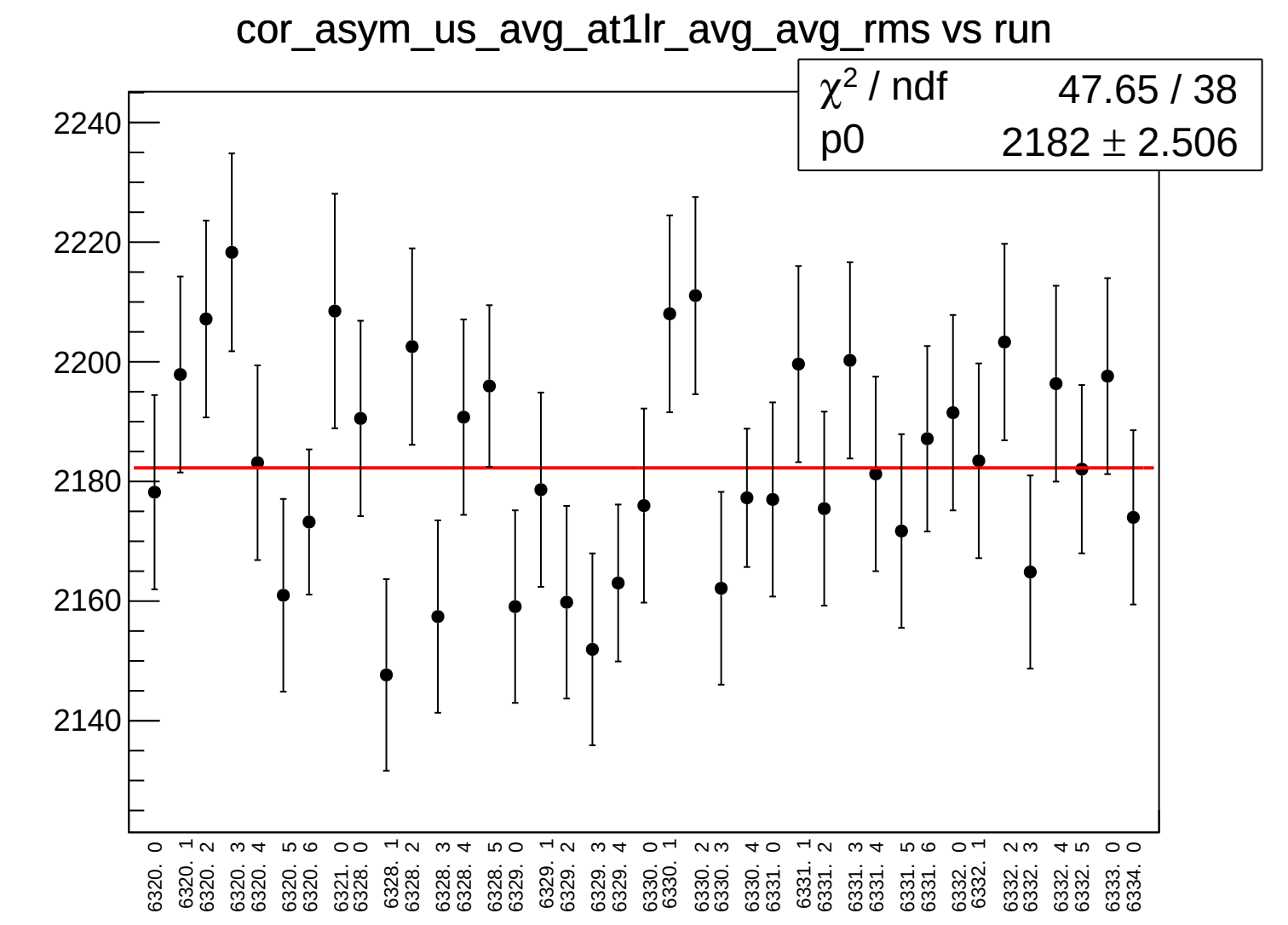

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 25.33 / 38
p0 2178 ± 3524
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.753
Std Dev 8.067
2
1.5
1
0.5
0
−0.5
−1
−1.5

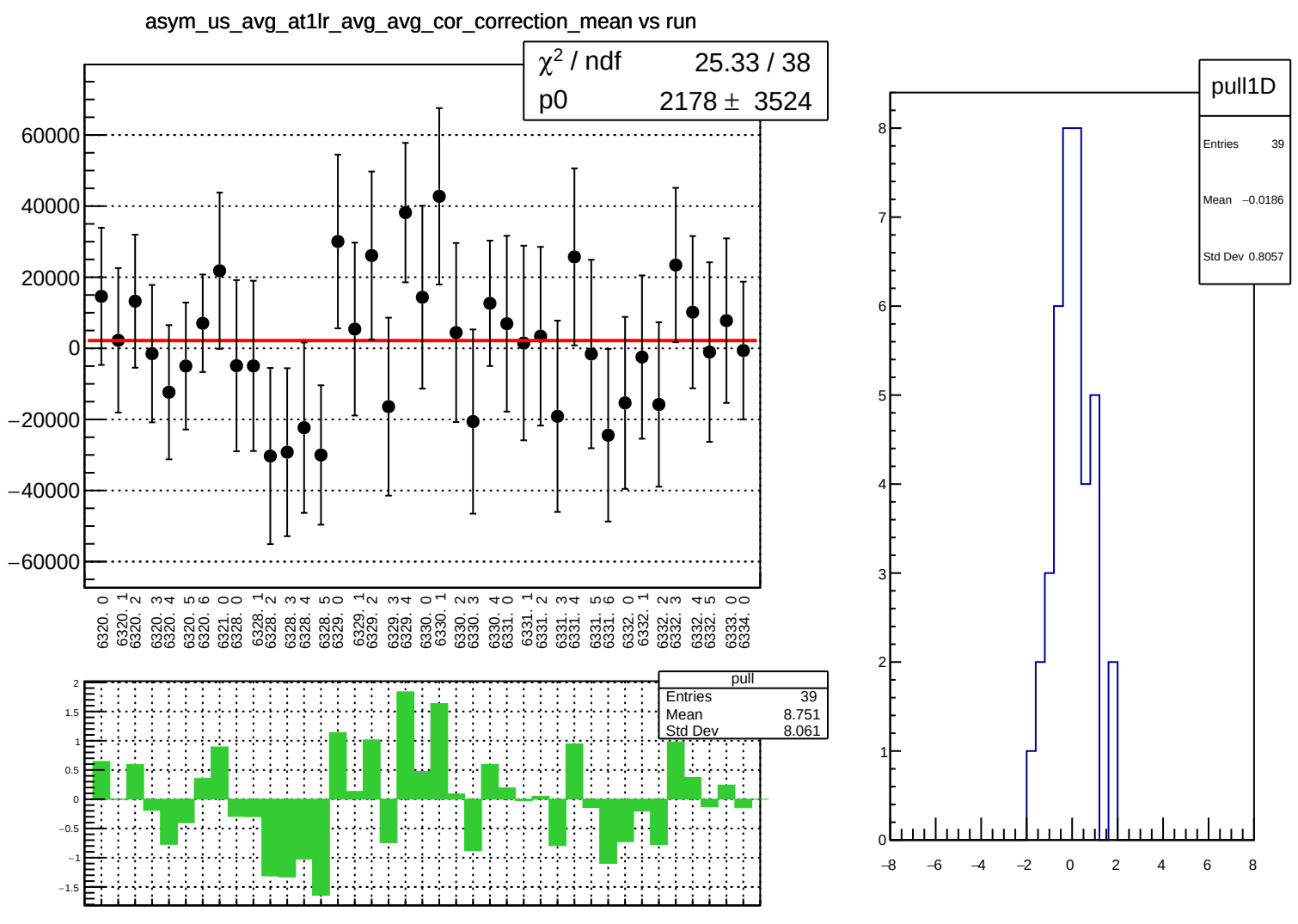

pull1D
Entries 39
Mean −0.0186
Std Dev 0.8057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

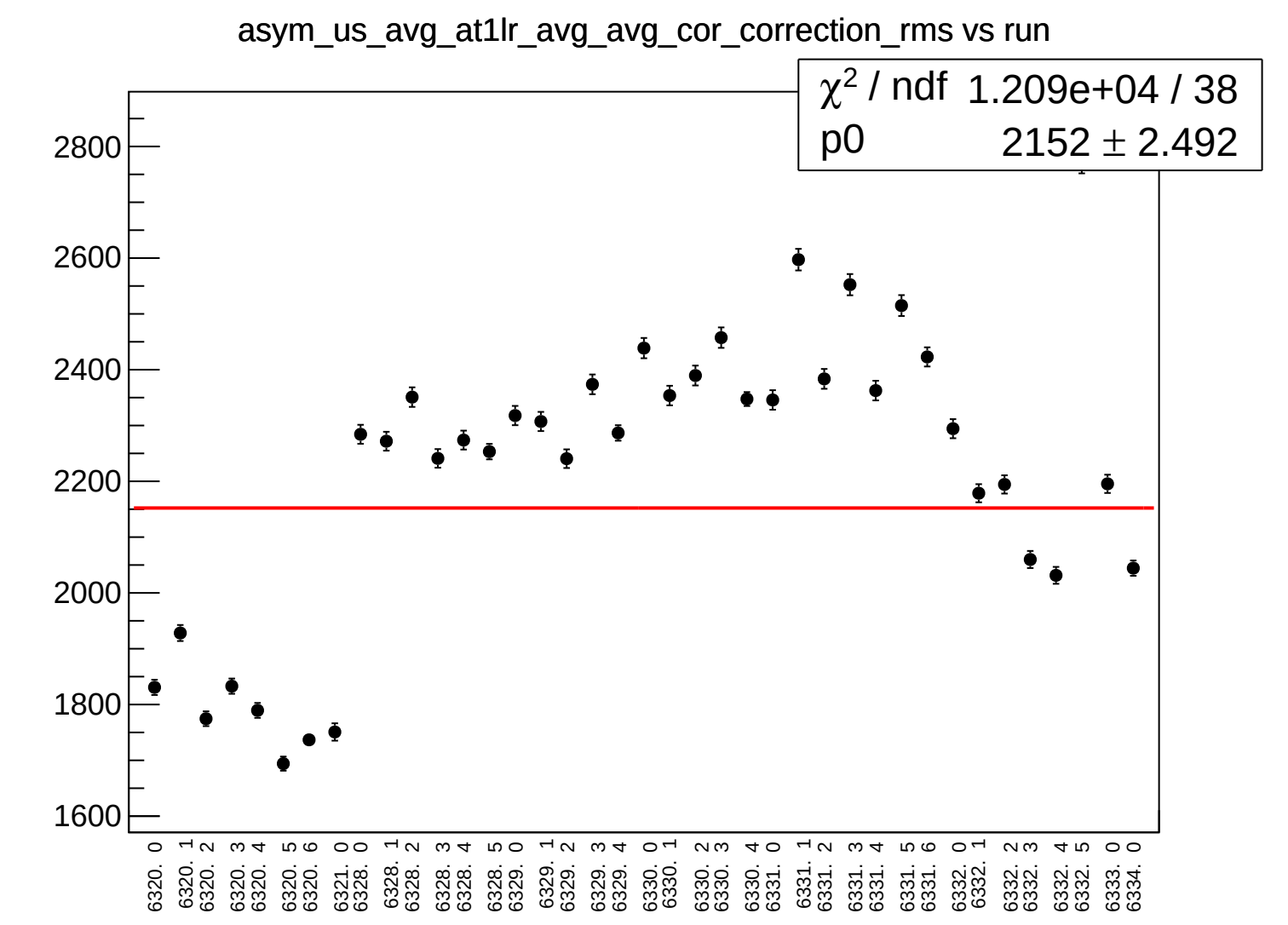

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.21e+04 / 38
p0 2152 ± 2.492
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

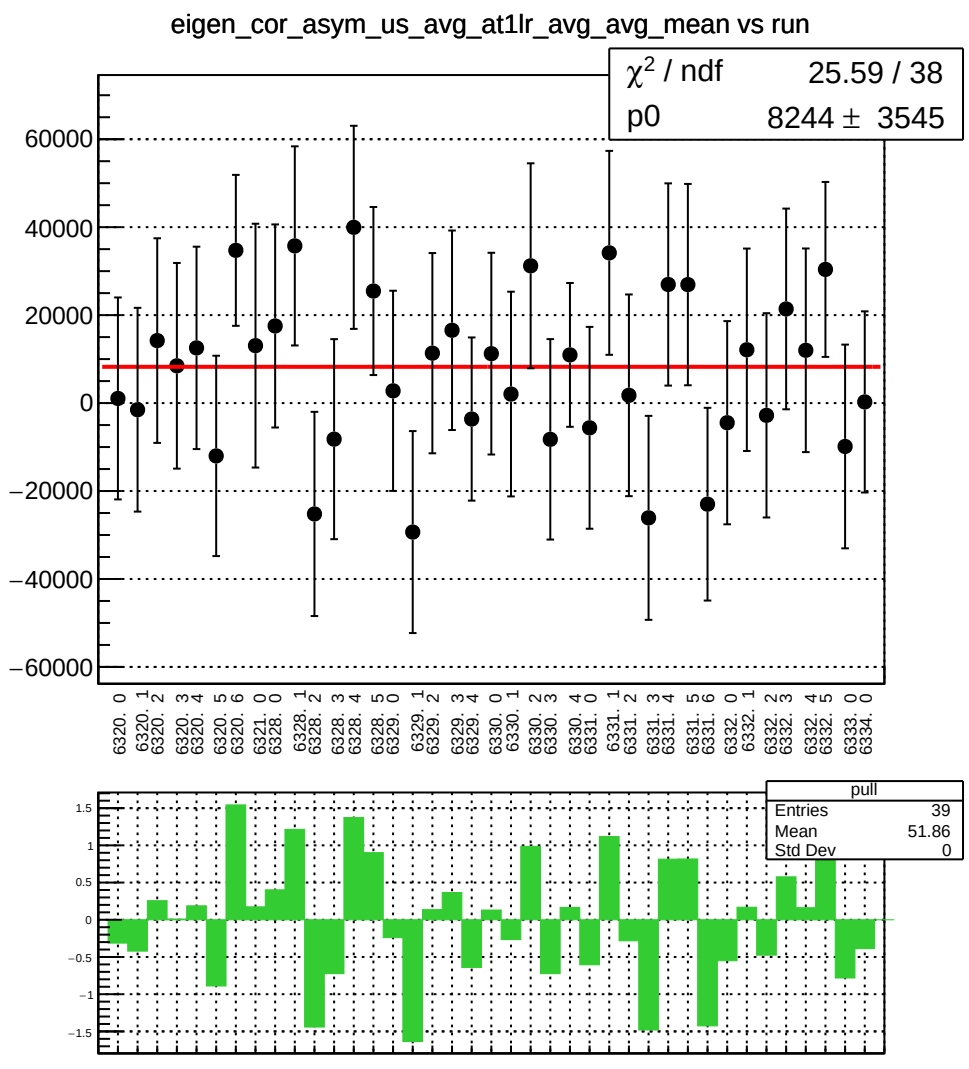

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 25.59 / 38
p0 8244 ± 3545
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

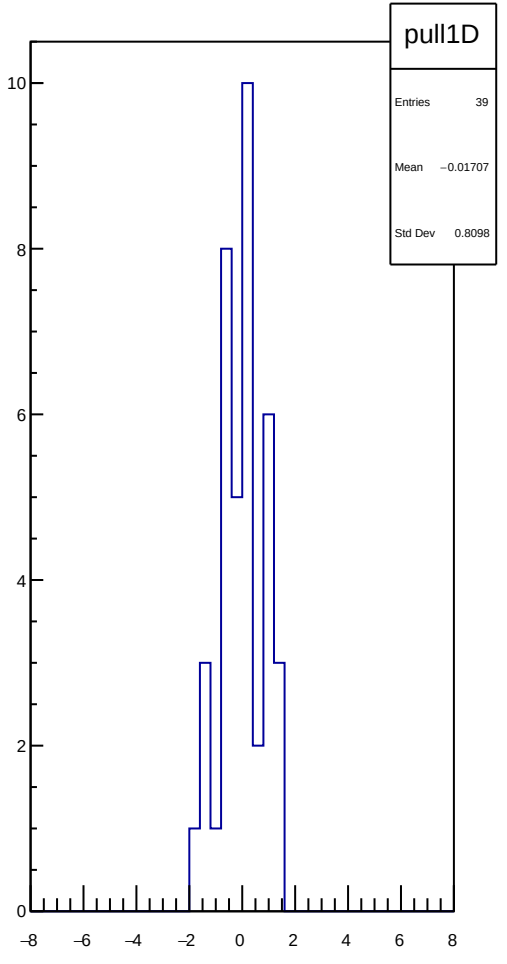

pull1D
Entries 39
Mean −0.01707
Std Dev 0.8098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

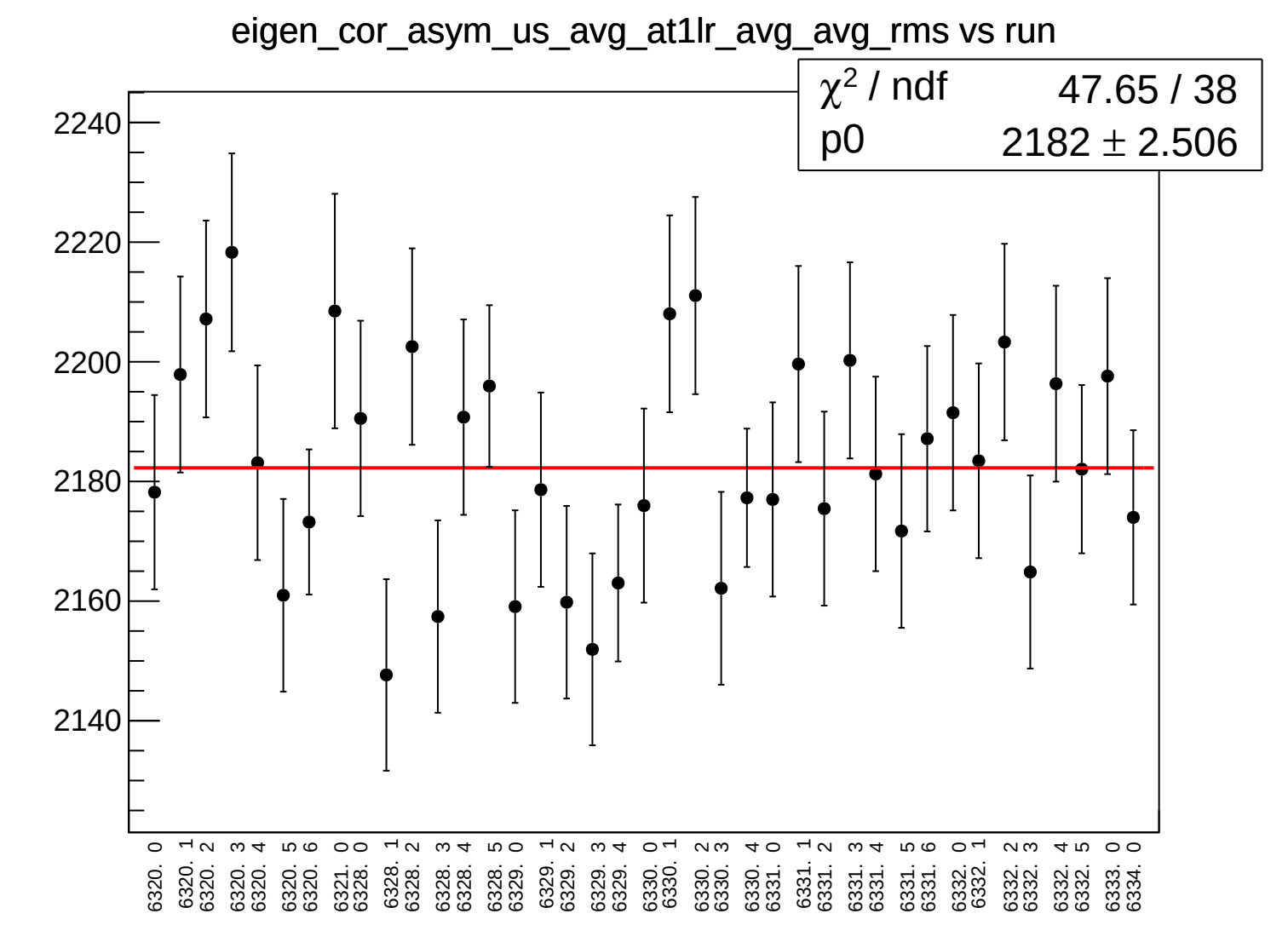

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 47.65 / 38
p0 2182 ± 2.506
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

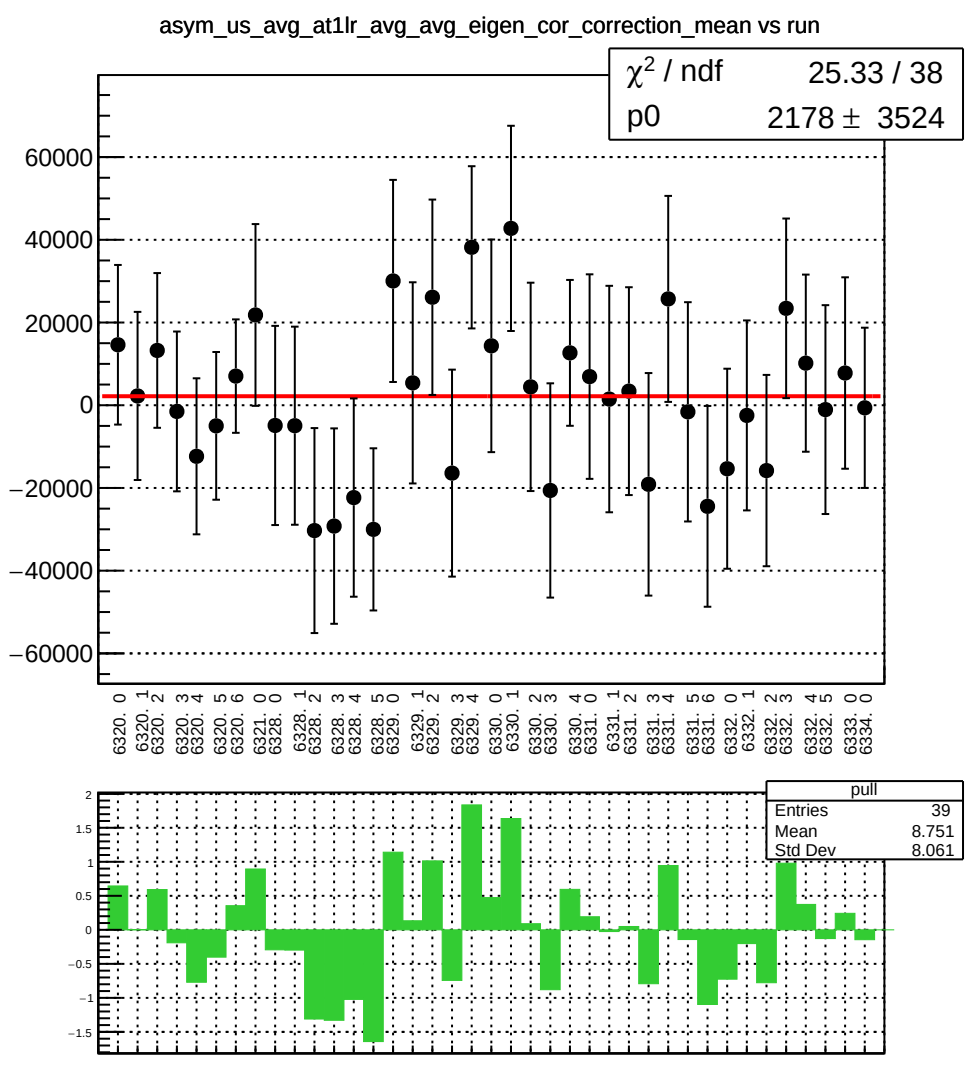

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 25.33 / 38
p0 2178 ± 3524
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.751
Std Dev 8.061
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0186
Std Dev 0.8057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

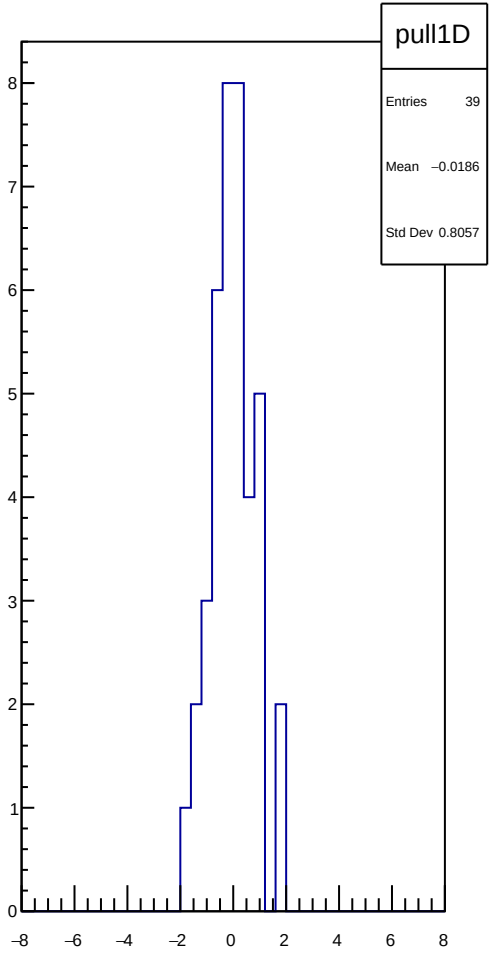

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.209e+04 / 38
p0 2152 ± 2.492
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

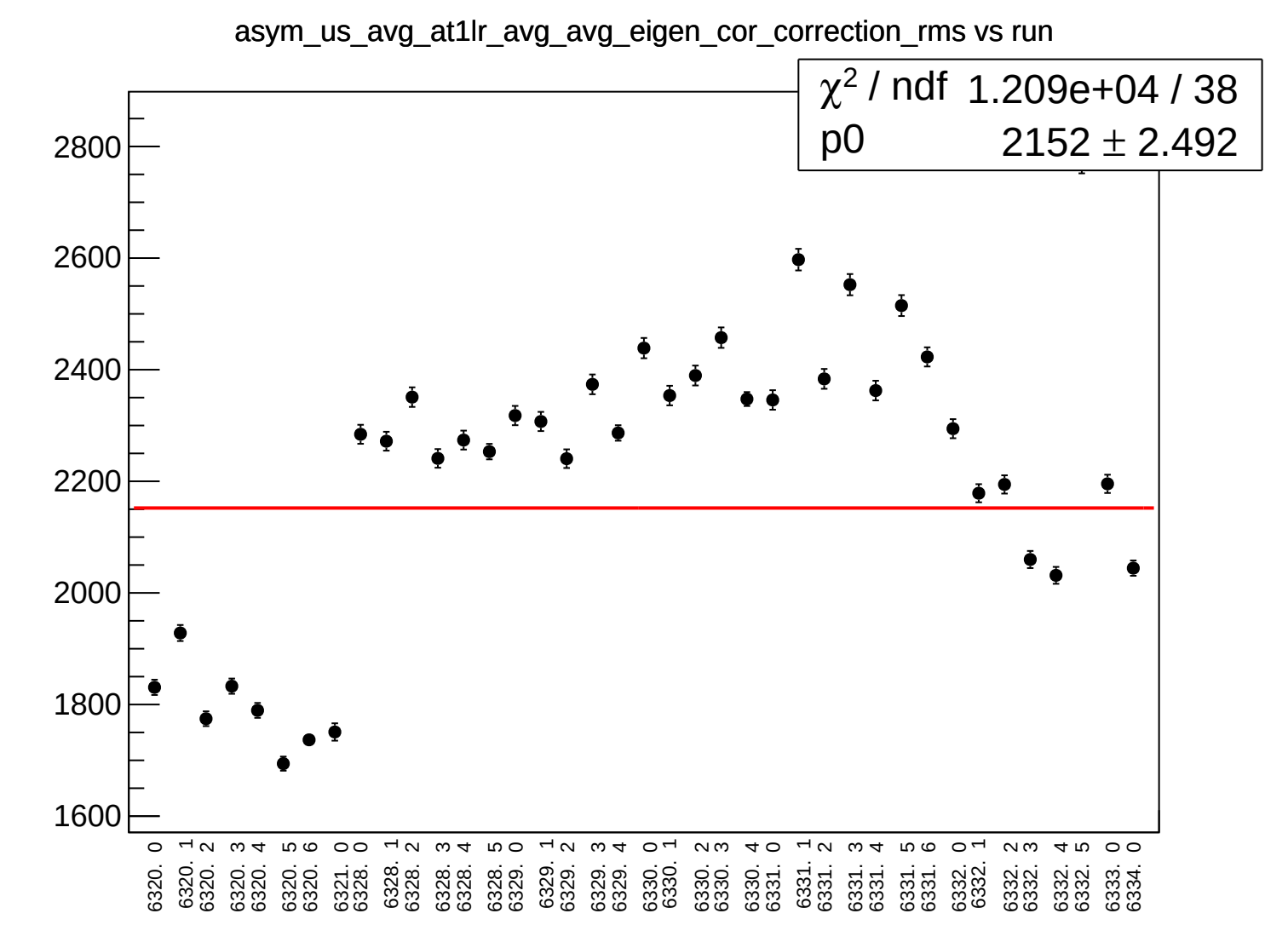

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 25.59 / 38
p0 8244 ± 3545
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

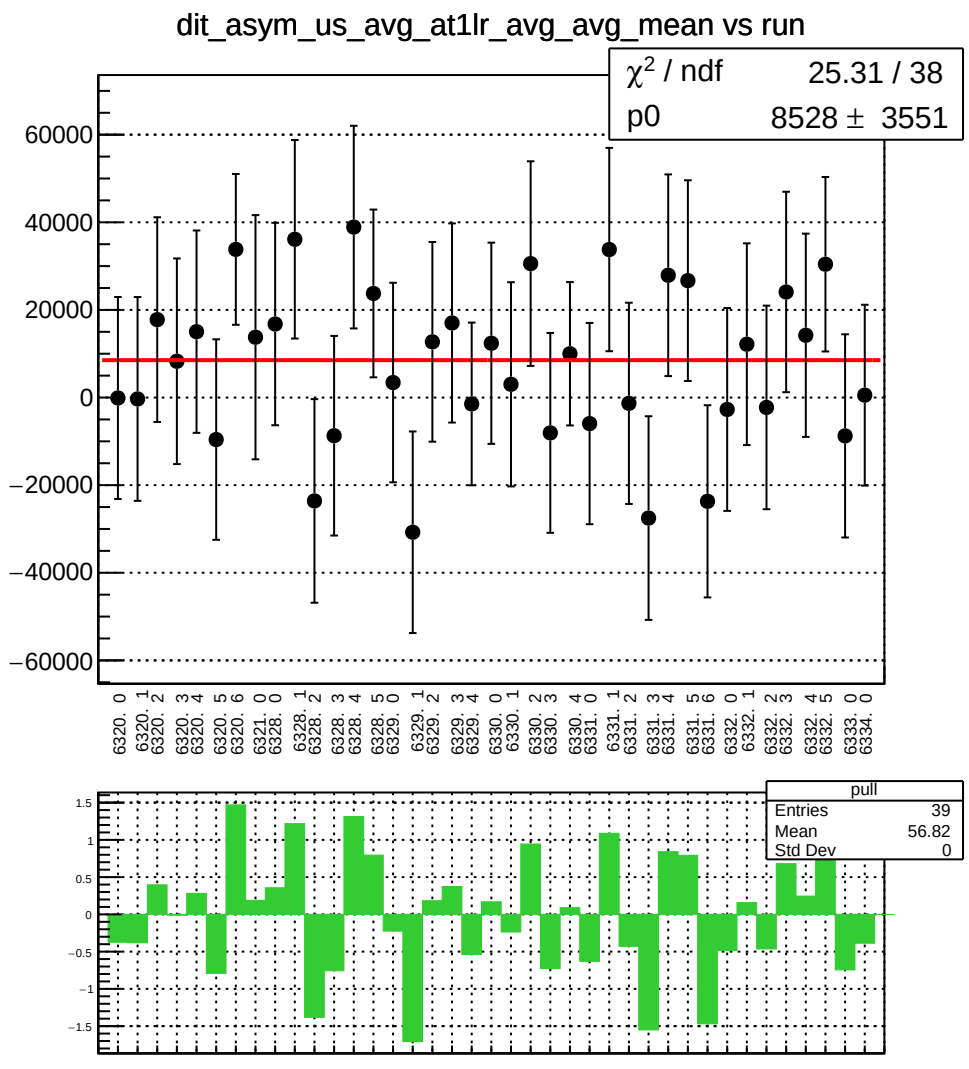

pull1D
Entries 39
Mean −0.01707
Std Dev 0.8098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

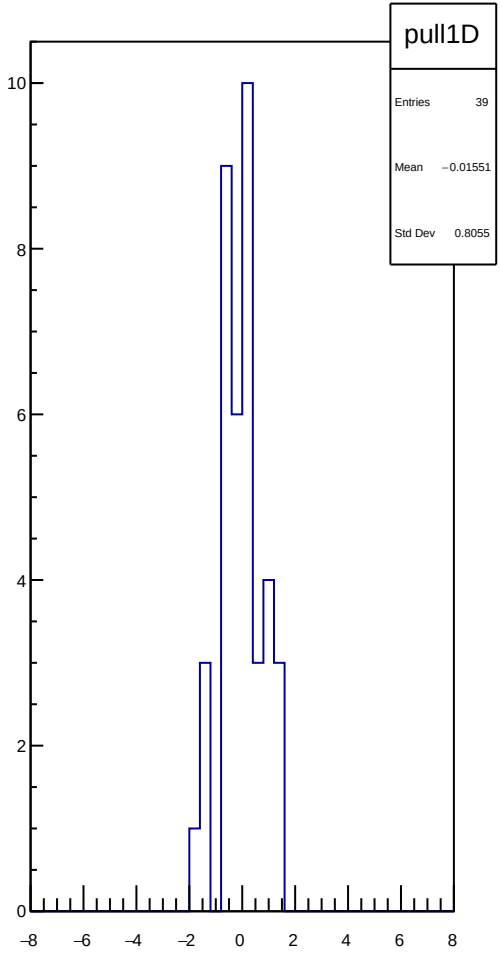

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 47.65 / 38
p0 2182 ± 2.506
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

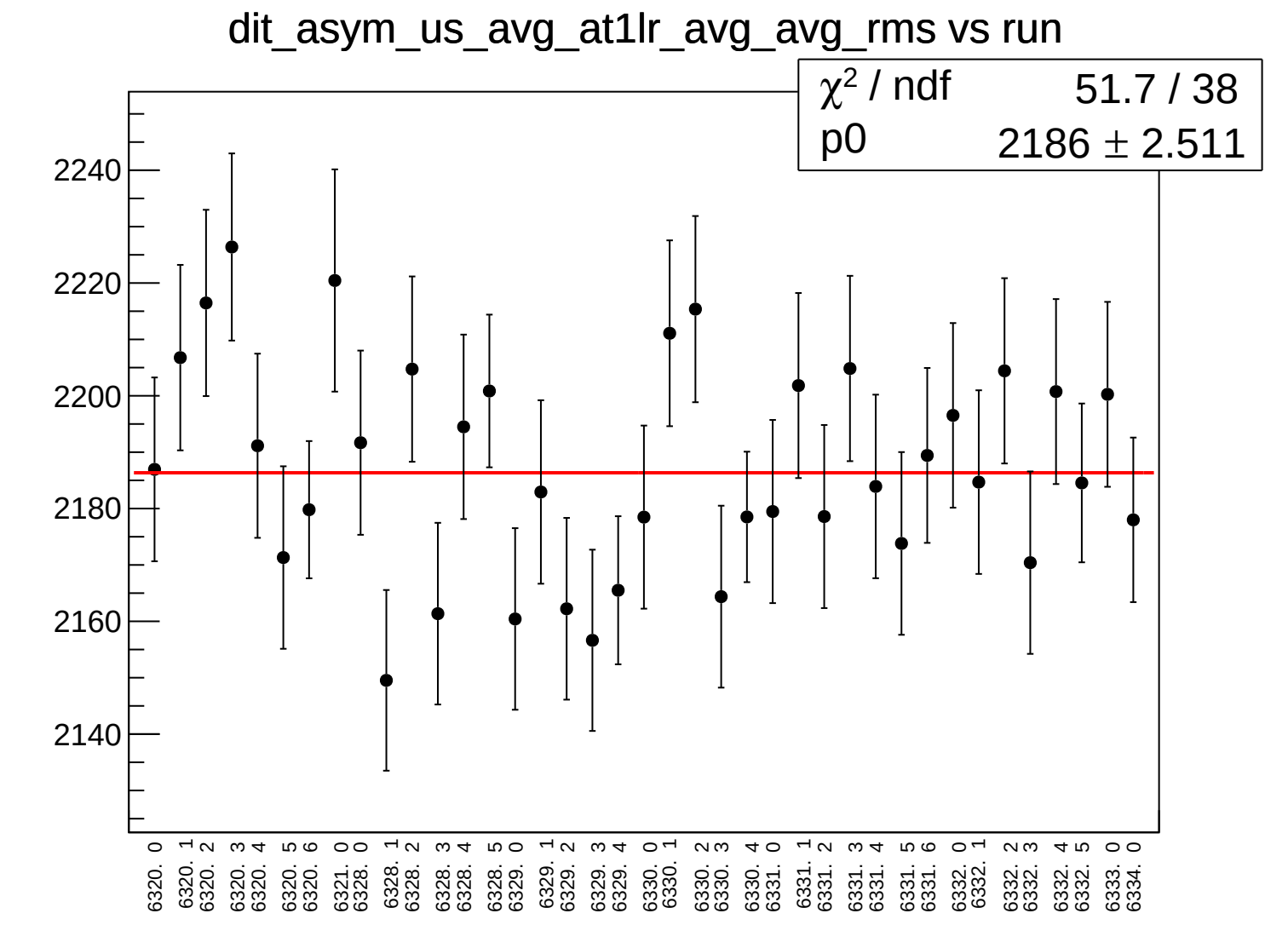

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.33 / 38
p0 2178 ± 3524
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.751
Std Dev 8.061
2
1.5
1
0.5
0
−0.5
−1
−1.5

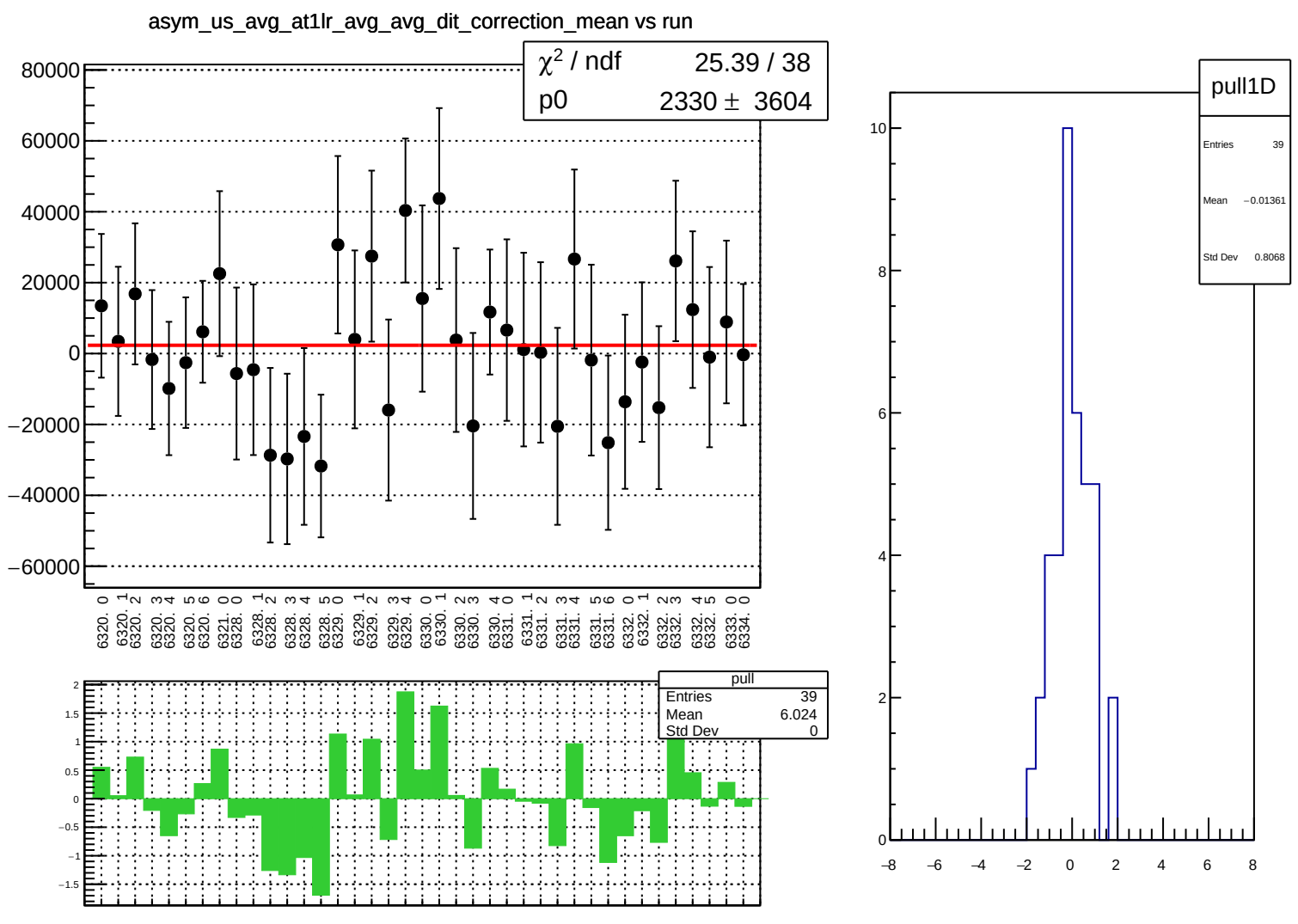

pull1D
Entries 39
Mean −0.0186
Std Dev 0.8057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

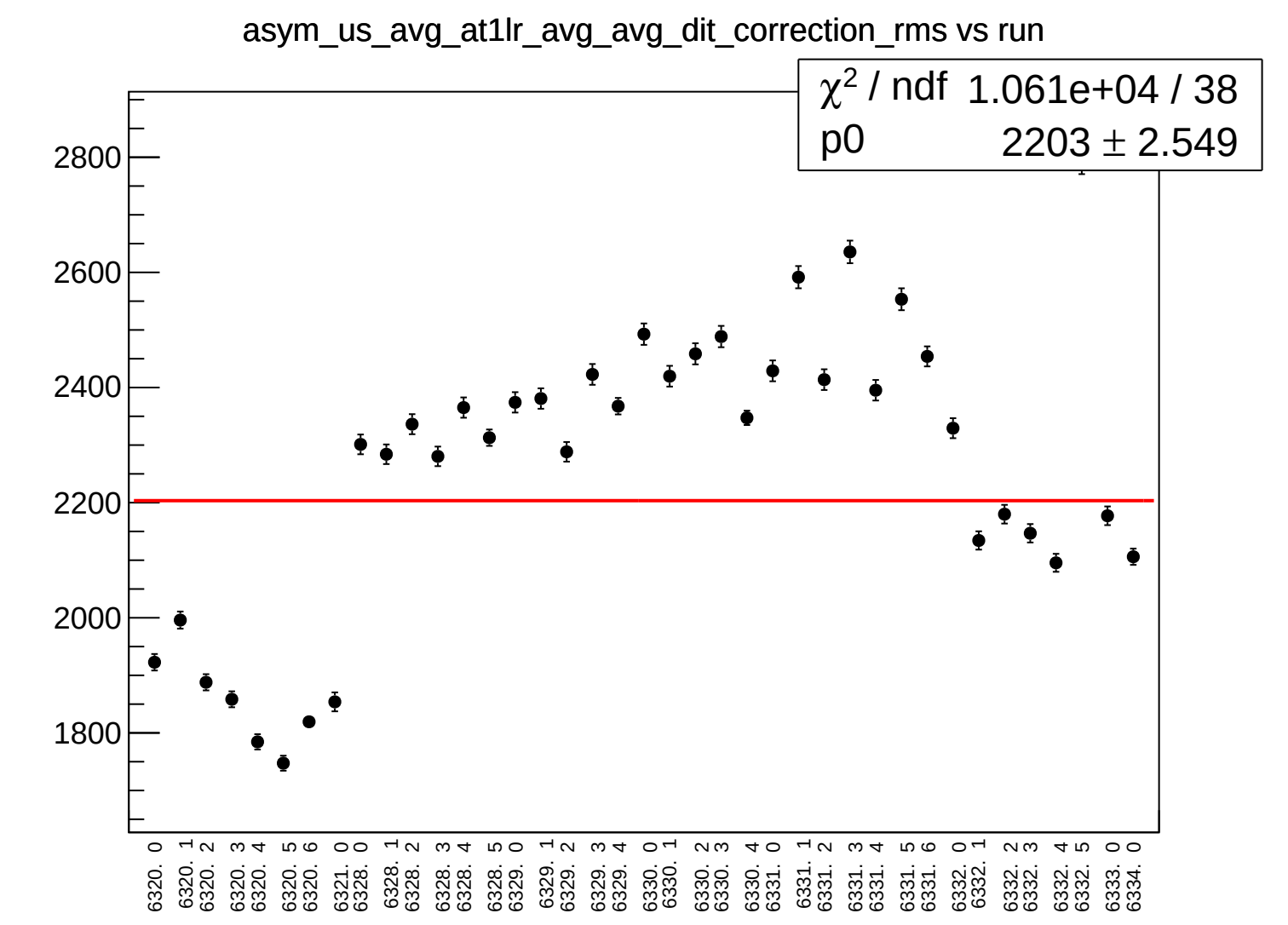

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.209e+04 / 38
p0 2152 ± 2.492
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

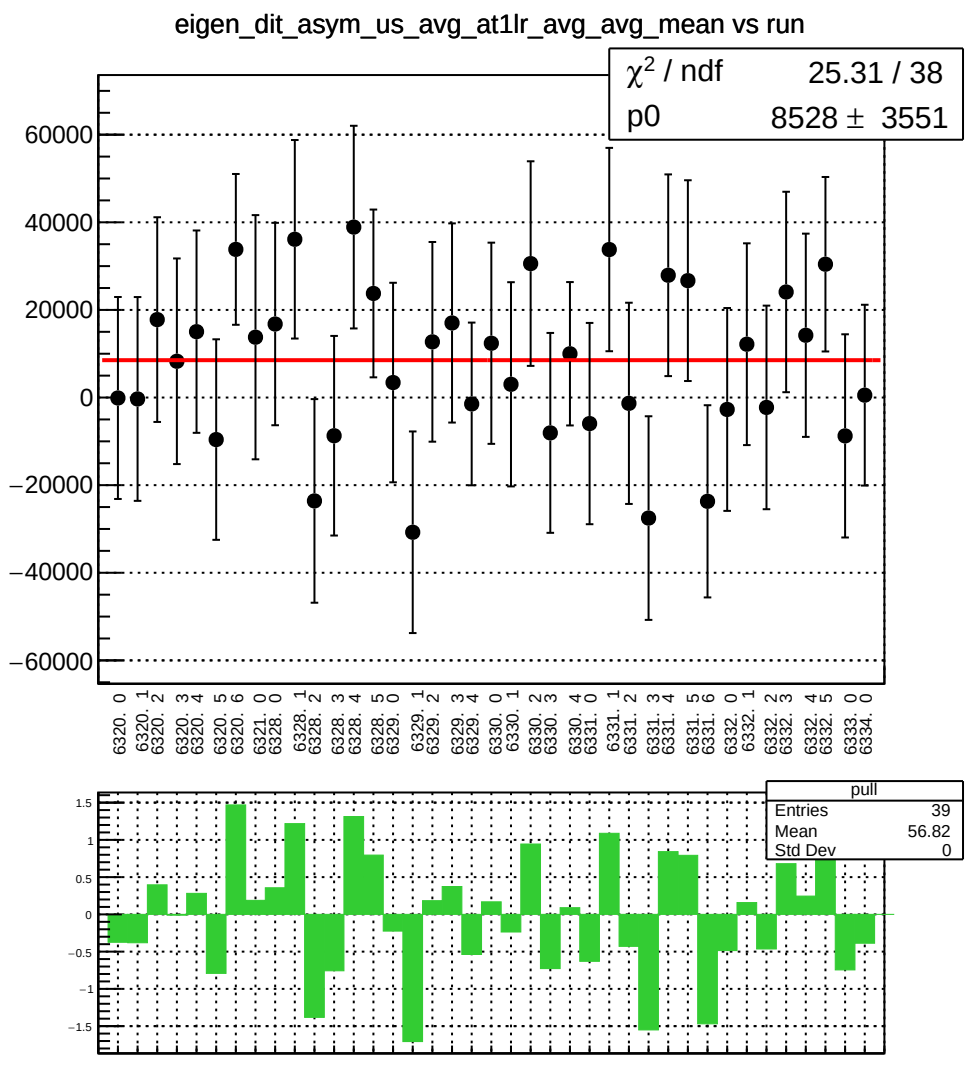

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 25.31 / 38
p0 8528 ± 3551
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 56.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

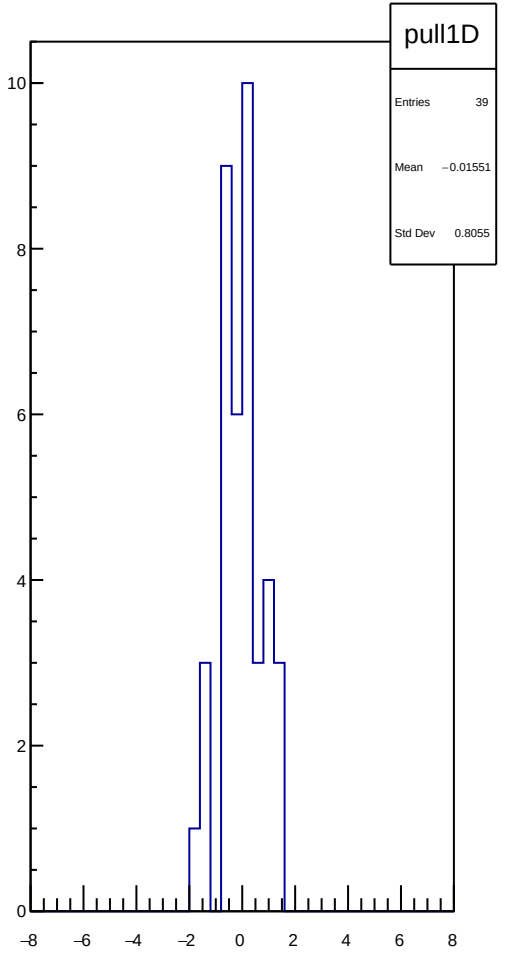

pull1D
Entries 39
Mean −0.01551
Std Dev 0.8055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

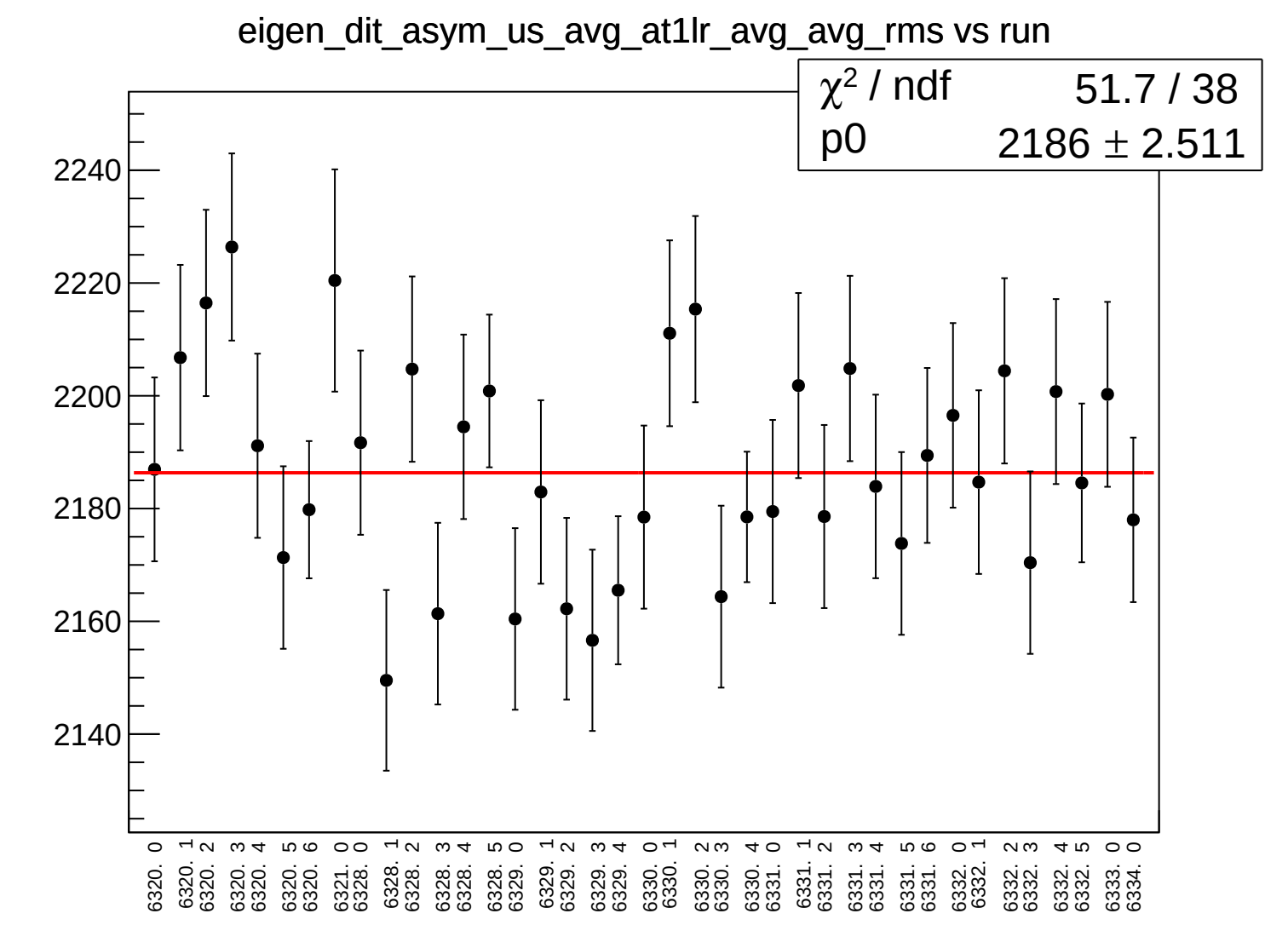

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 51.7 / 38
p0 2186 ± 2.511
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

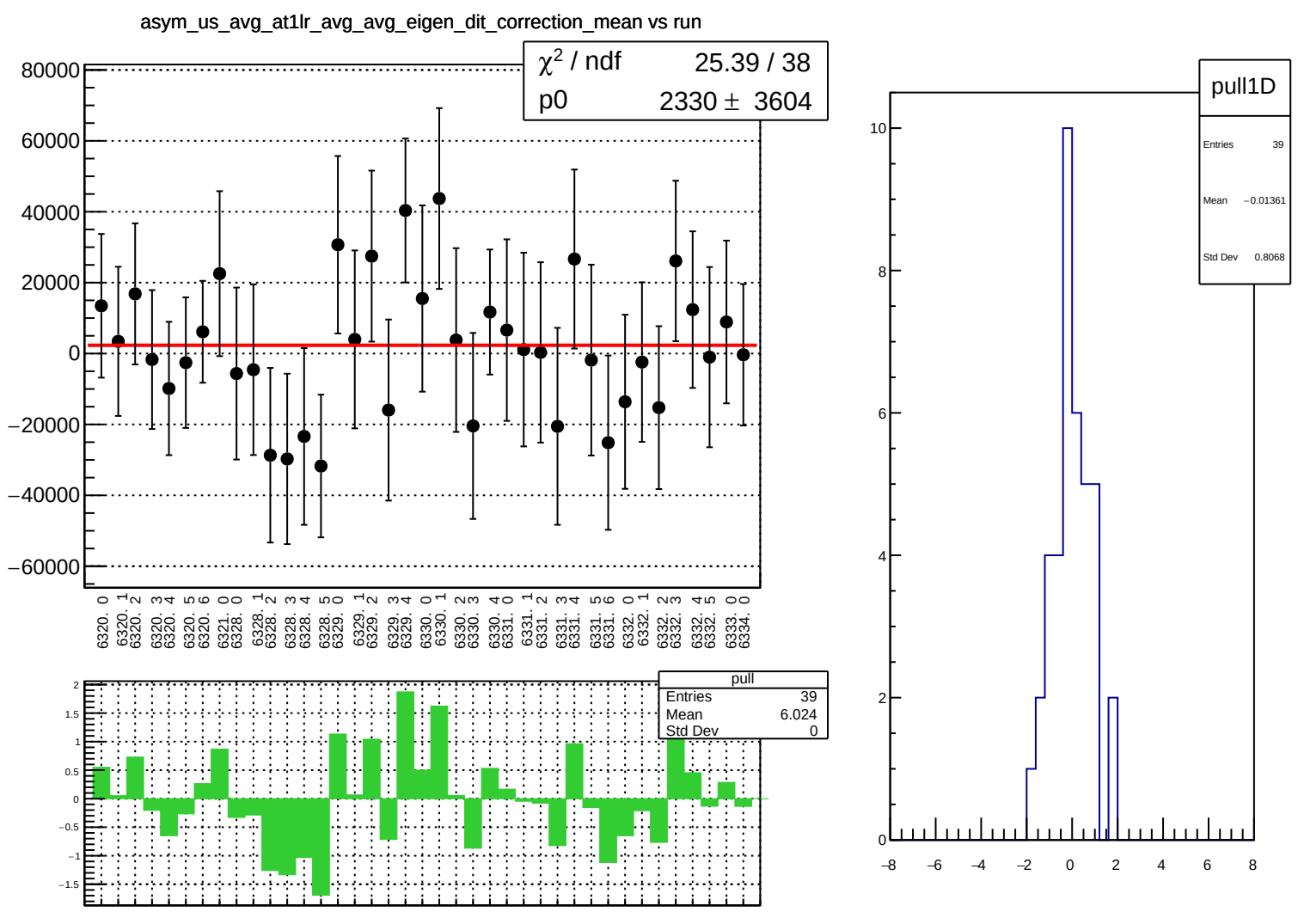

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 25.39 / 38
p0 2330 ± 3604
pull
Entries 39
Mean 6.024
Std Dev 0
pull1D
Entries 39
Mean −0.01361
Std Dev 0.8068

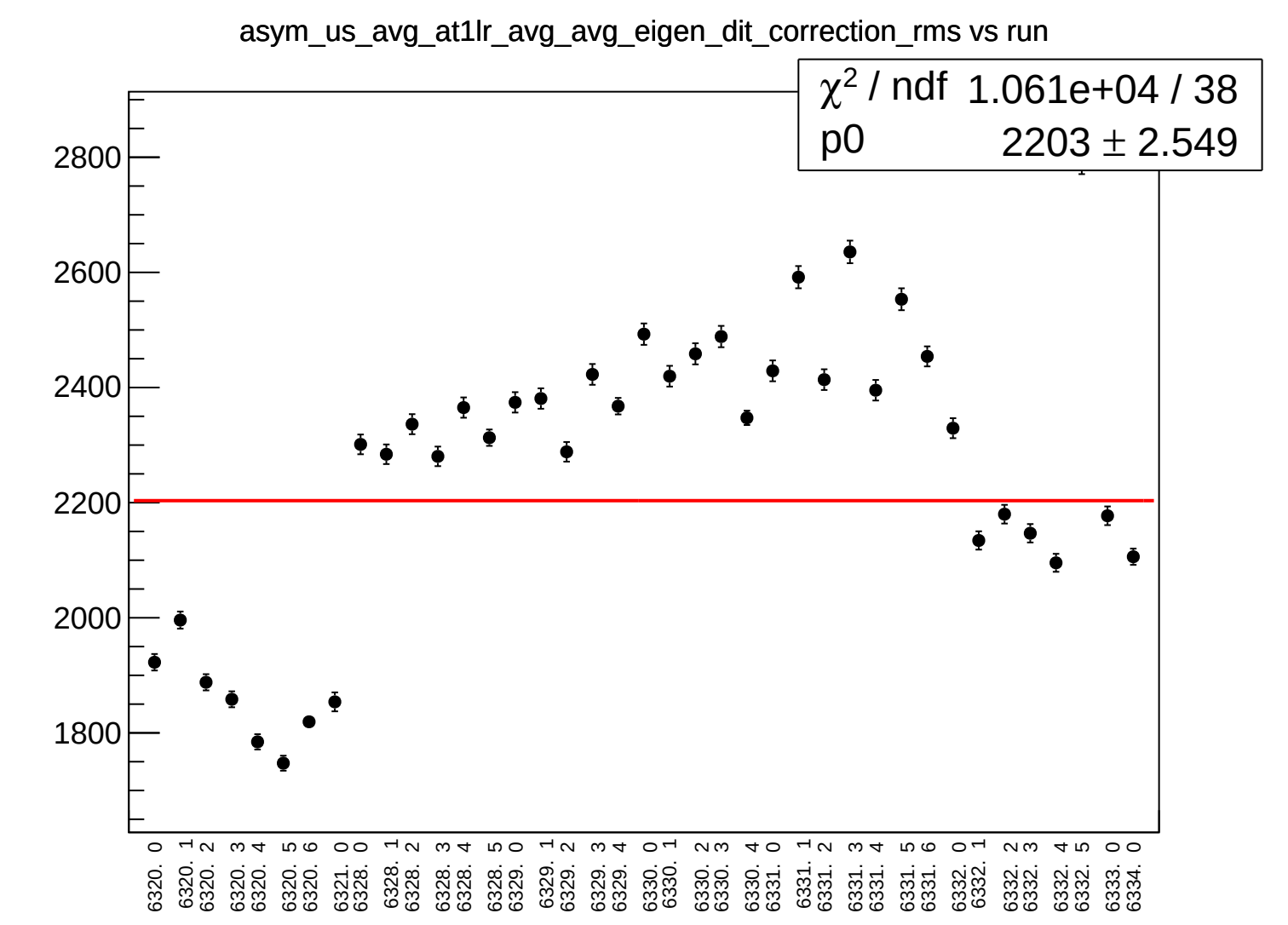

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 38
p0 2203 ± 2.549
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

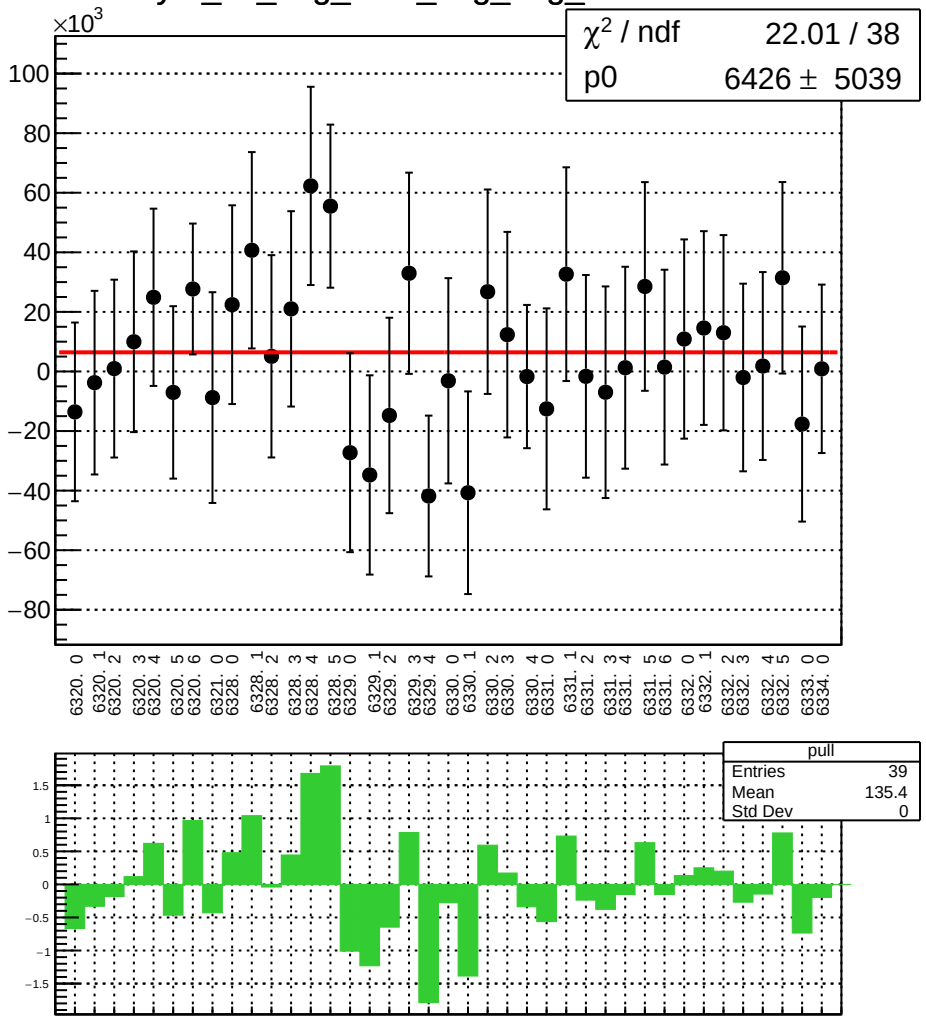

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 25.31 / 38
p0 8528 ± 3551
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 56.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

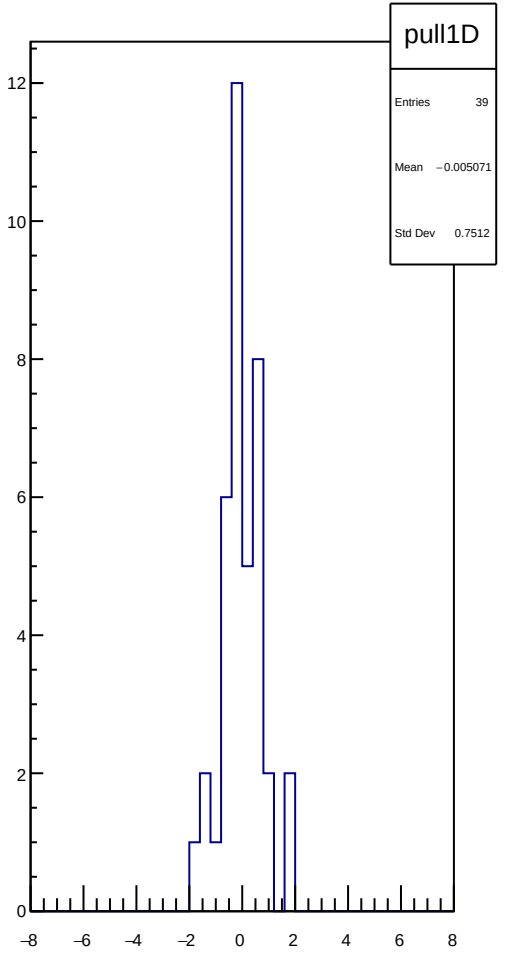

pull1D
Entries 39
Mean −0.01551
Std Dev 0.8055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

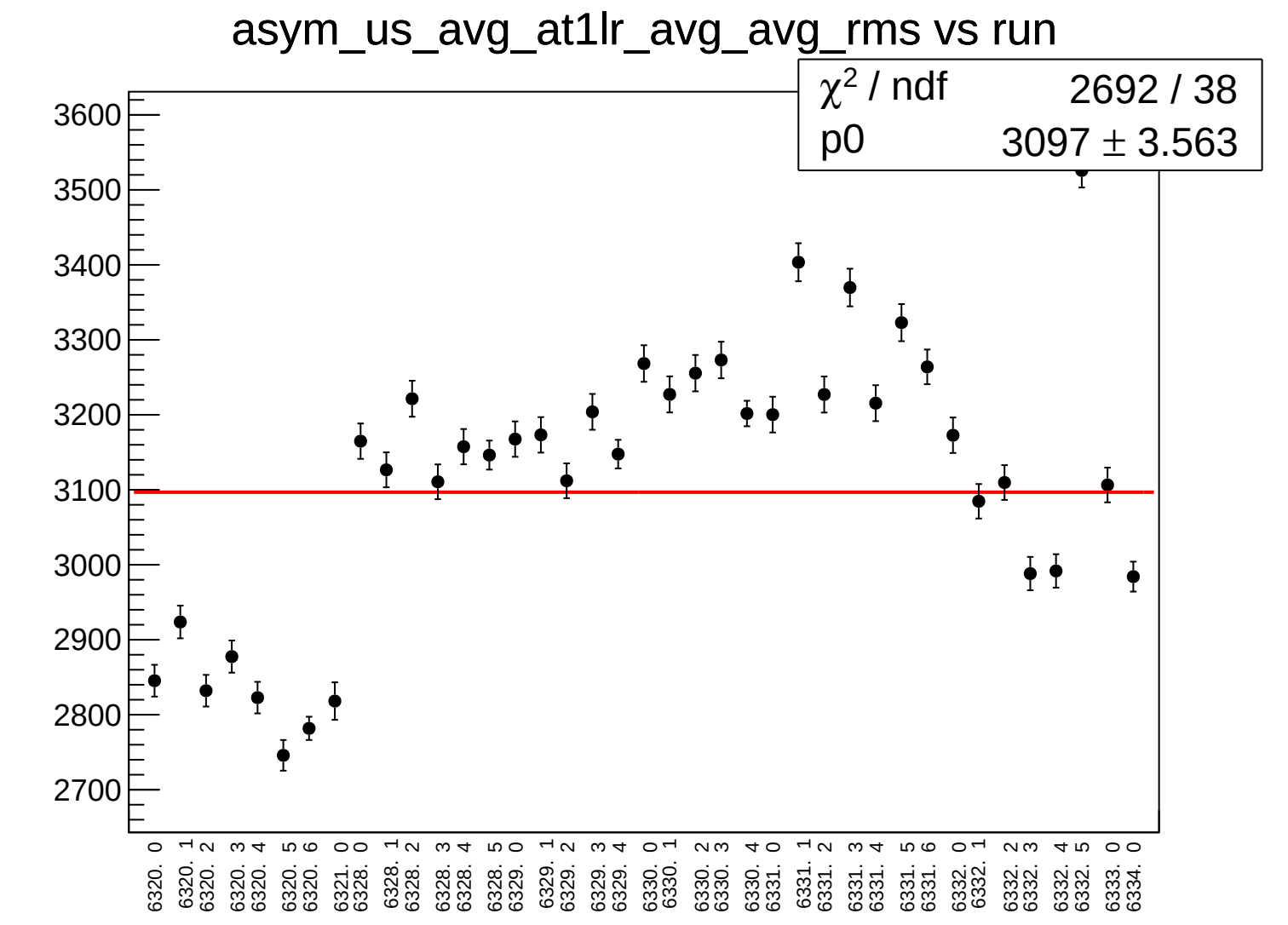

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 51.7 / 38
p0 2186 ± 2.511
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

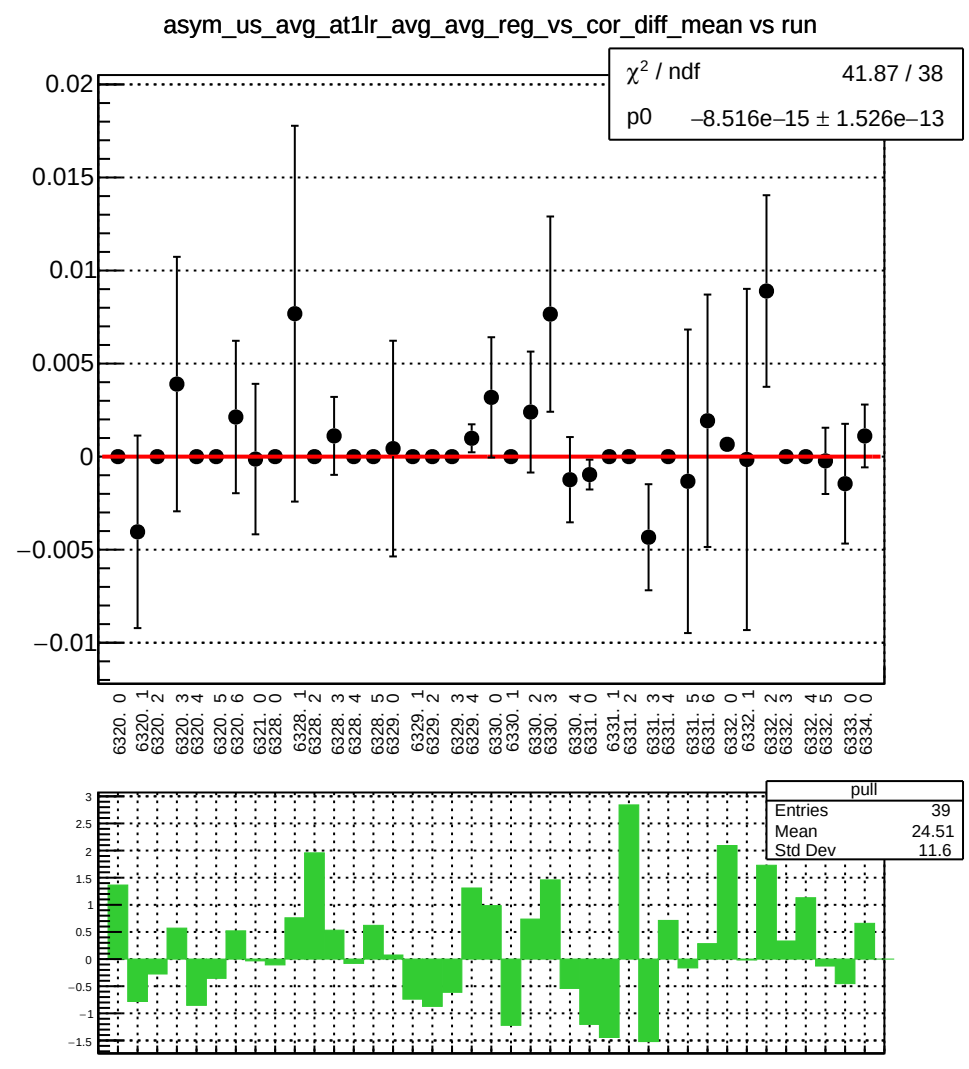

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.39 / 38
p0 2330 ± 3604
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.024
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01361
Std Dev 0.8068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

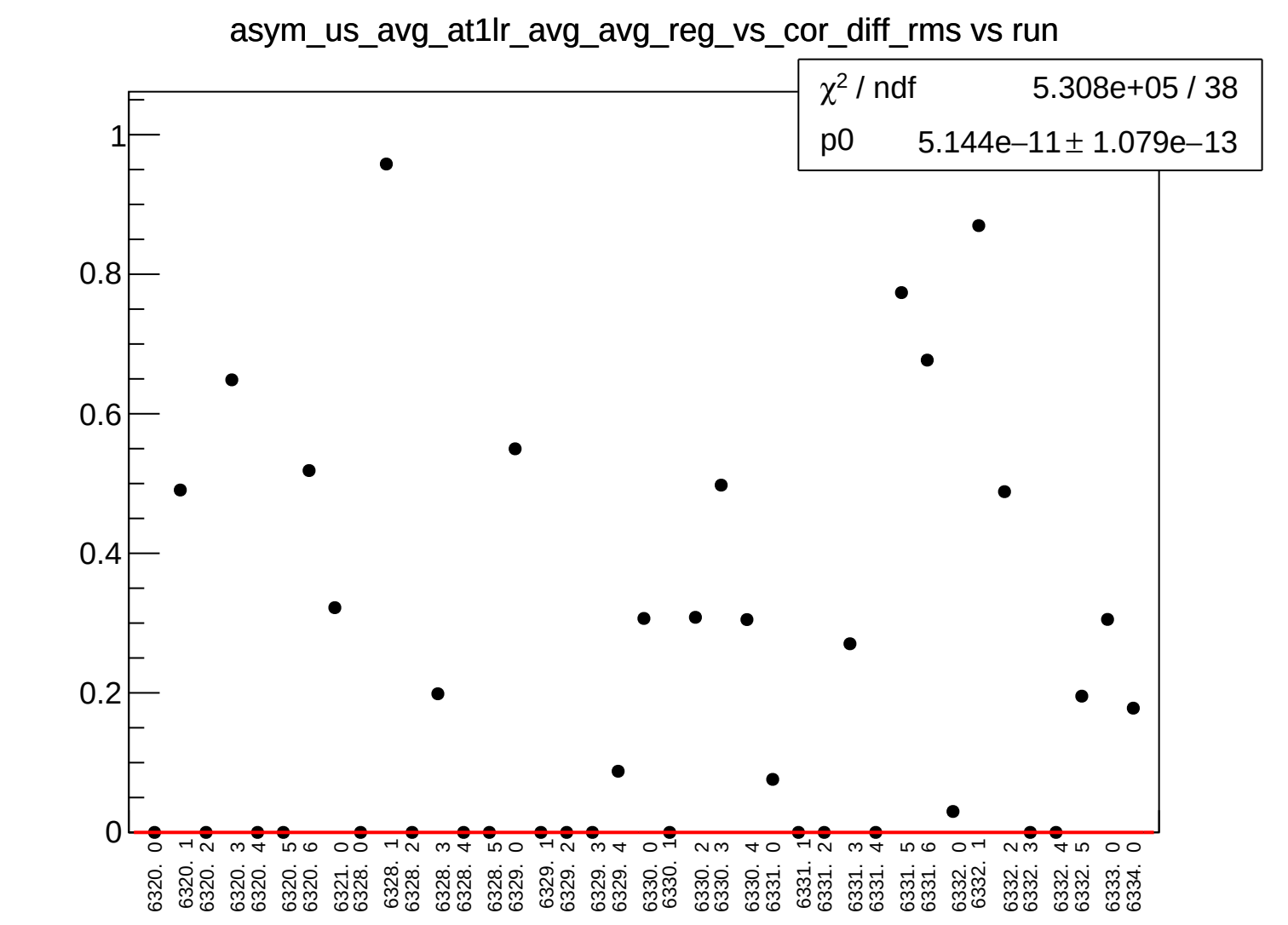

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 38
p0 2203 ± 2.549
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

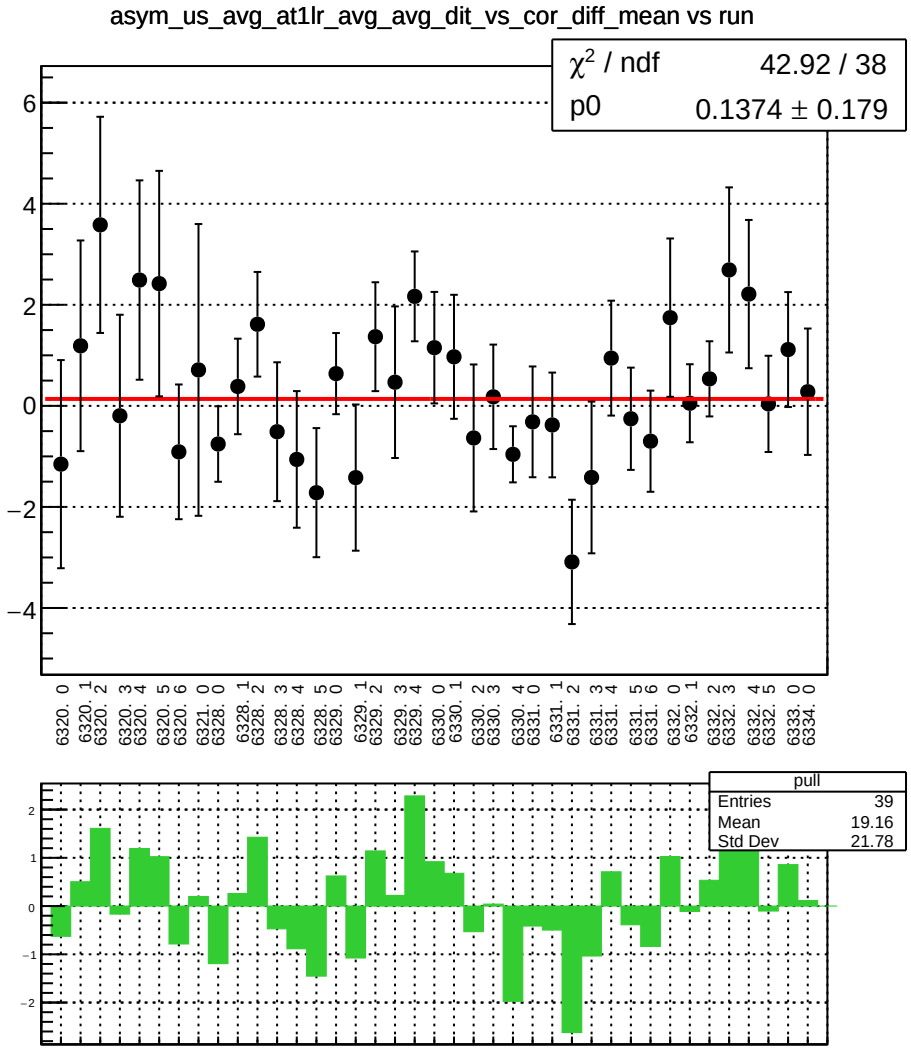

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 22.01 / 38
p0 6426 ± 5039
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 135.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

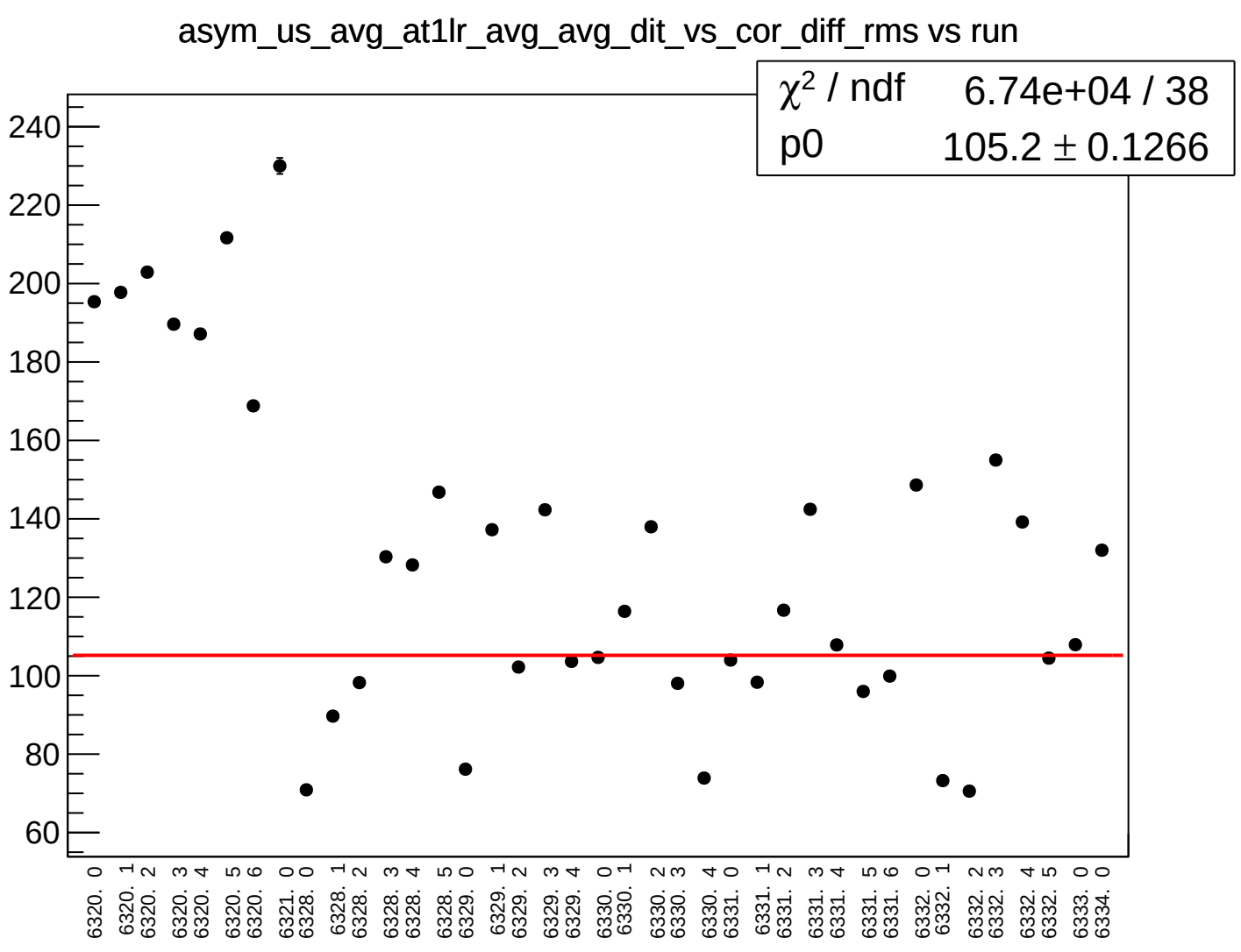

pull1D
Entries 39
Mean −0.005071
Std Dev 0.7512
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

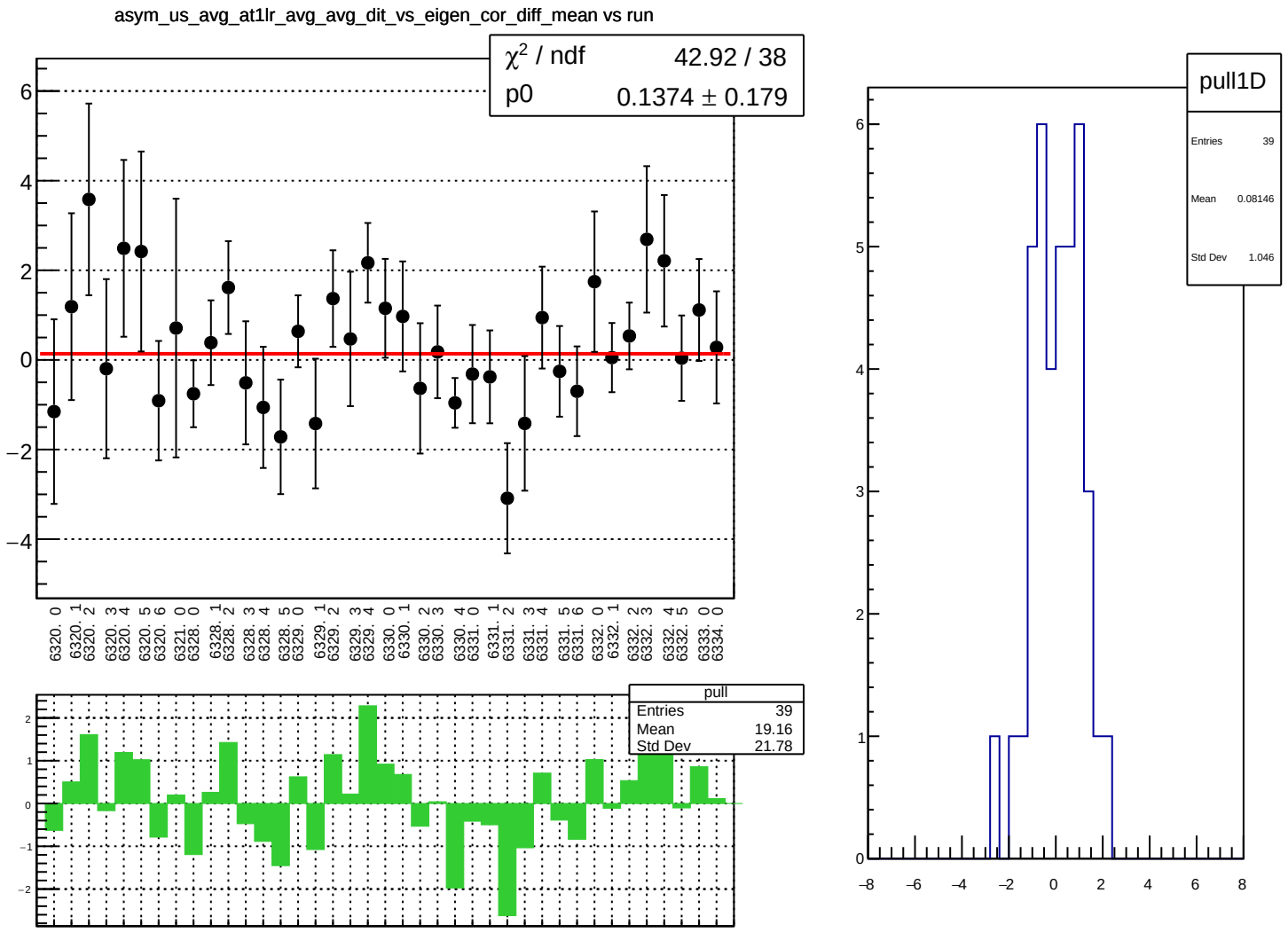

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2692 / 38
p0 3097 ± 3.563
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

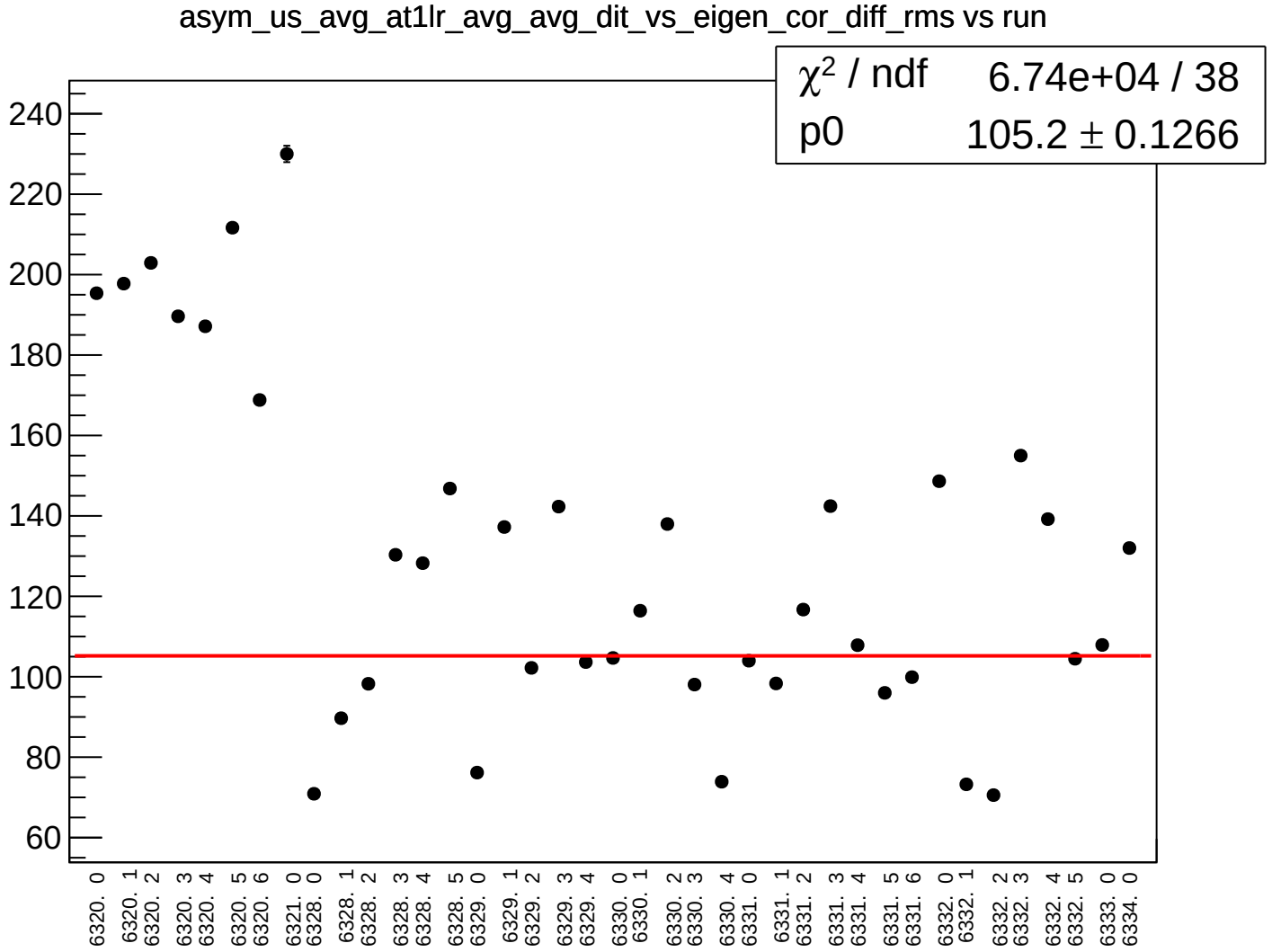

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.87 / 38
p0 −8.516e−15 ± 1.526e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 24.51
Std Dev 11.6
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.238
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

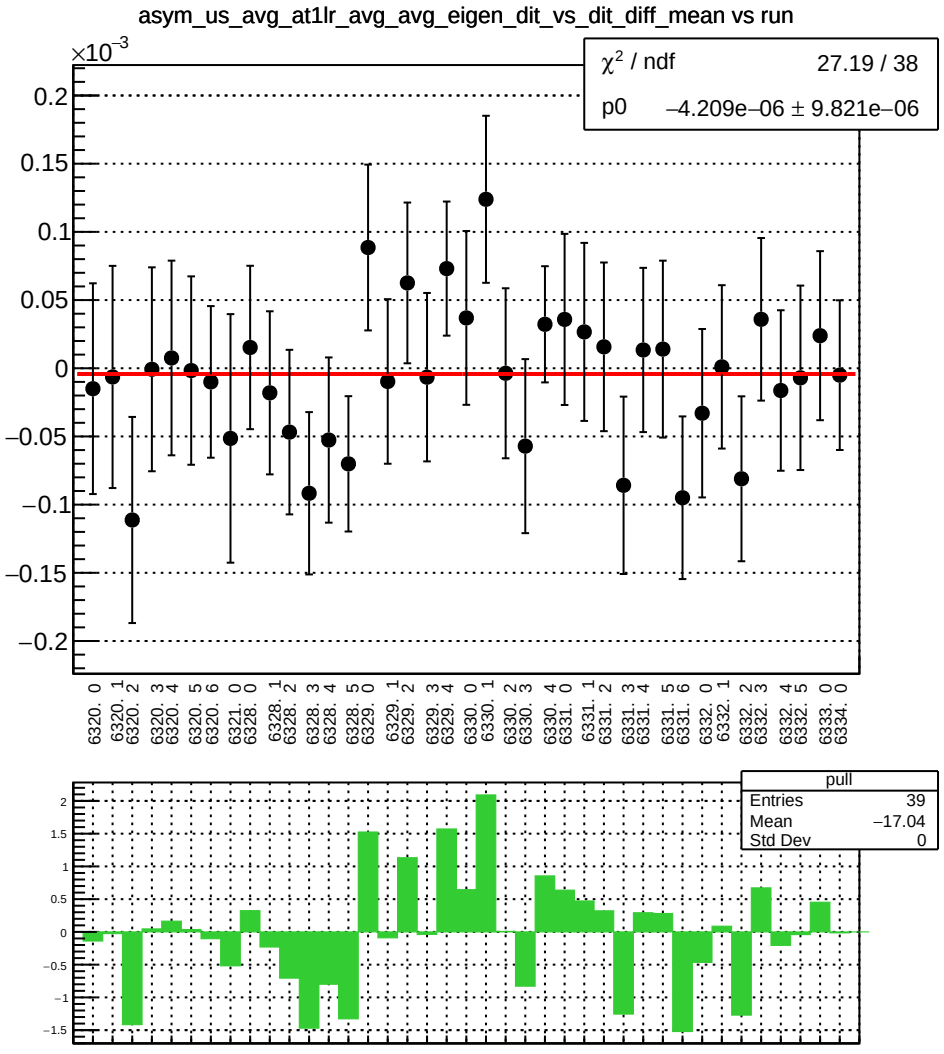

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.308e+05 / 38
p0 5.144e−11 ± 1.079e−13
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

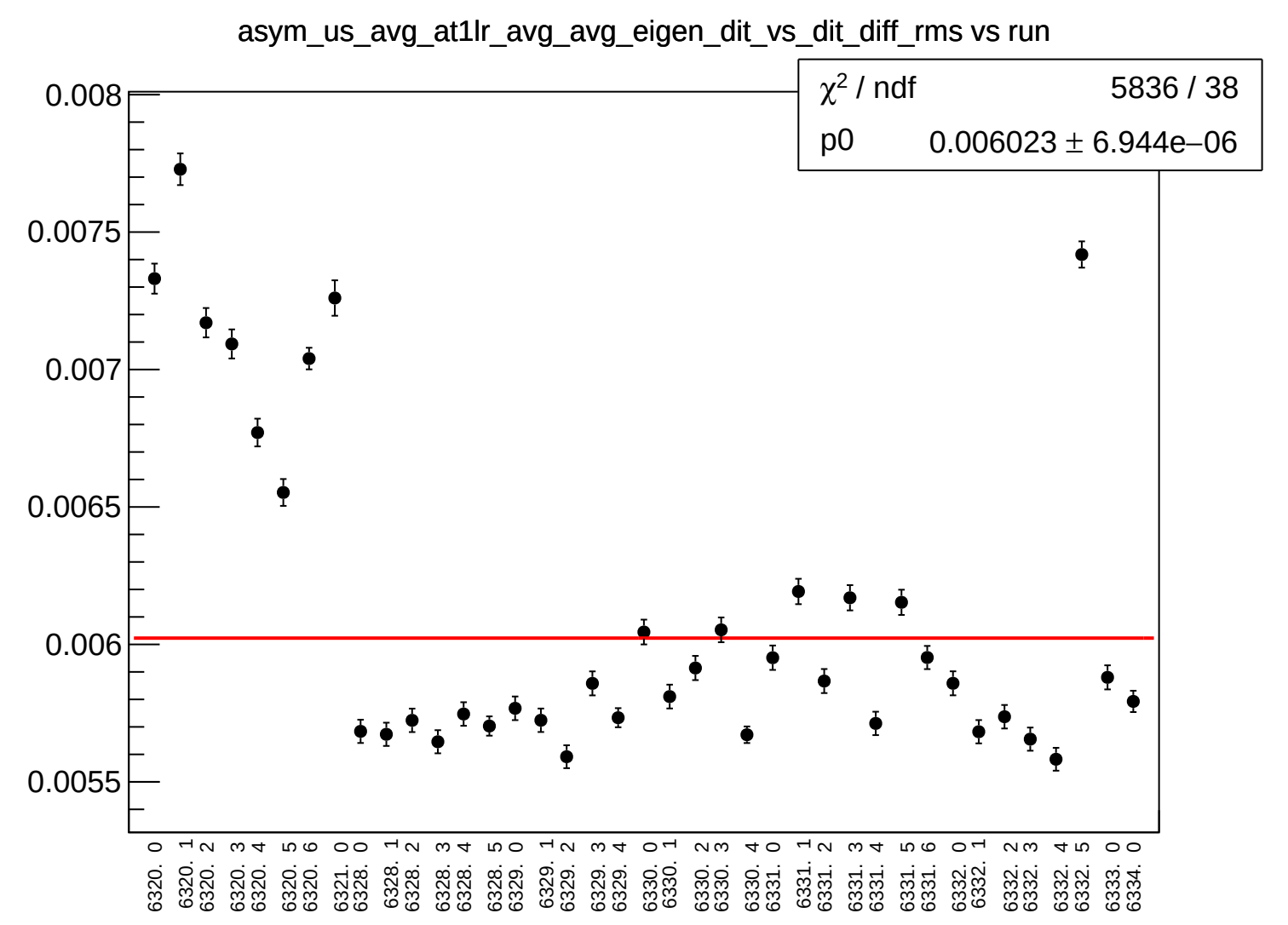

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.92 / 38
p0 0.1374 ± 0.179
pull
Entries 39
Mean 19.16
Std Dev 21.78
pull1D
Entries 39
Mean 0.08146
Std Dev 1.046

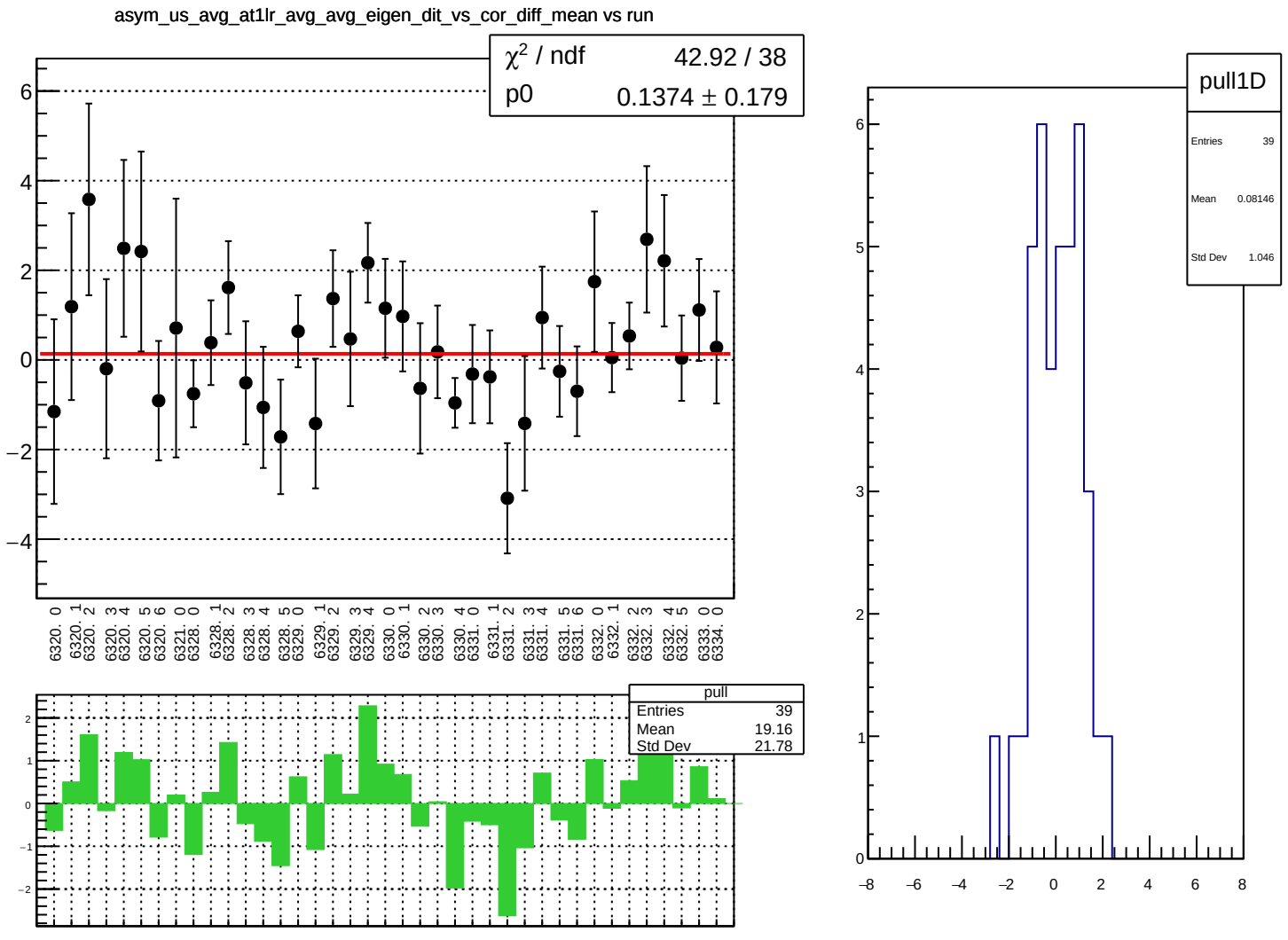

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.74e+04 / 38
p0 105.2 ± 0.1266
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

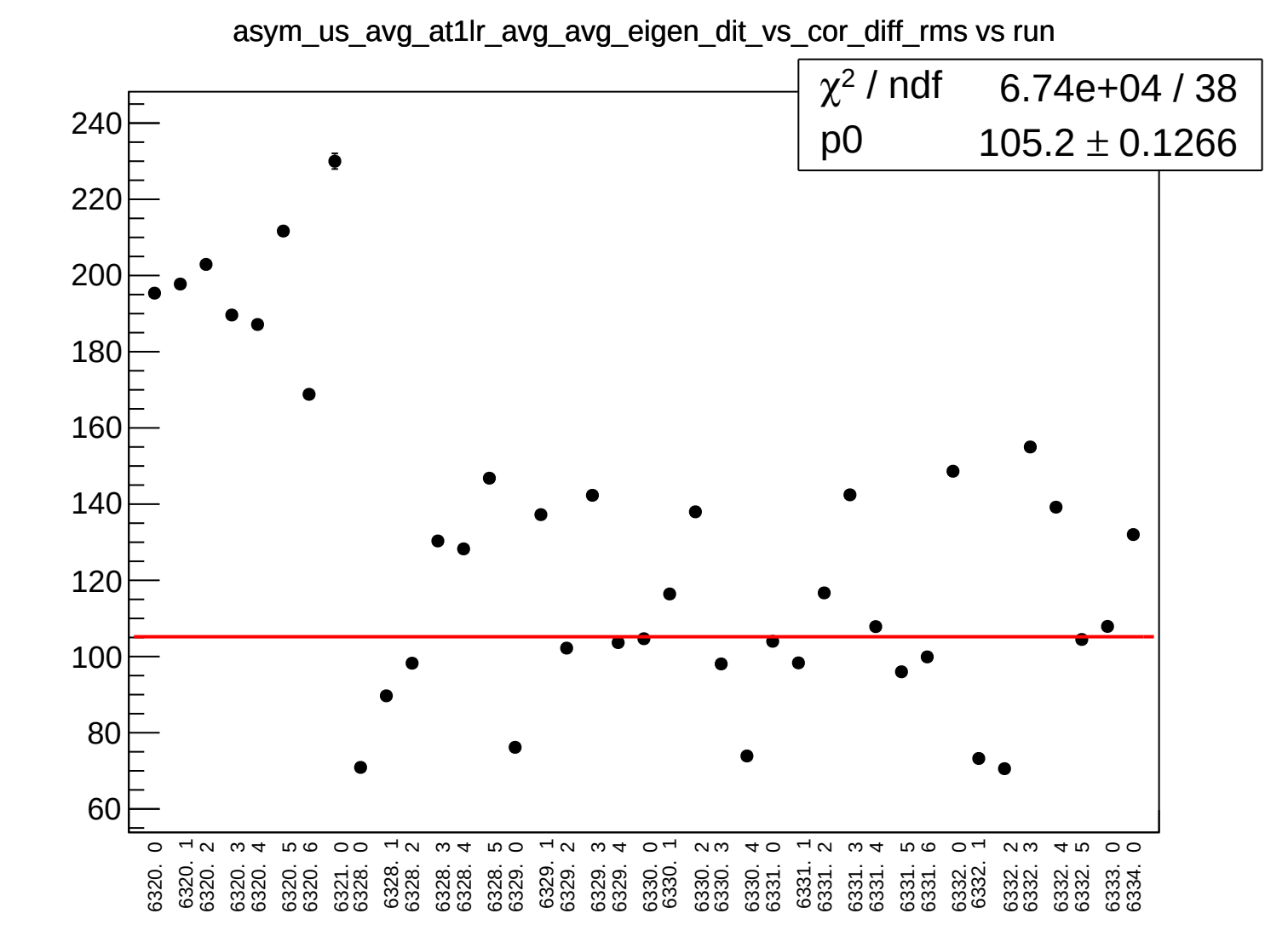

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.92 / 38
p0 0.1374 ± 0.179
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.16
Std Dev 21.78
pull1D
Entries 39
Mean 0.08146
Std Dev 1.046

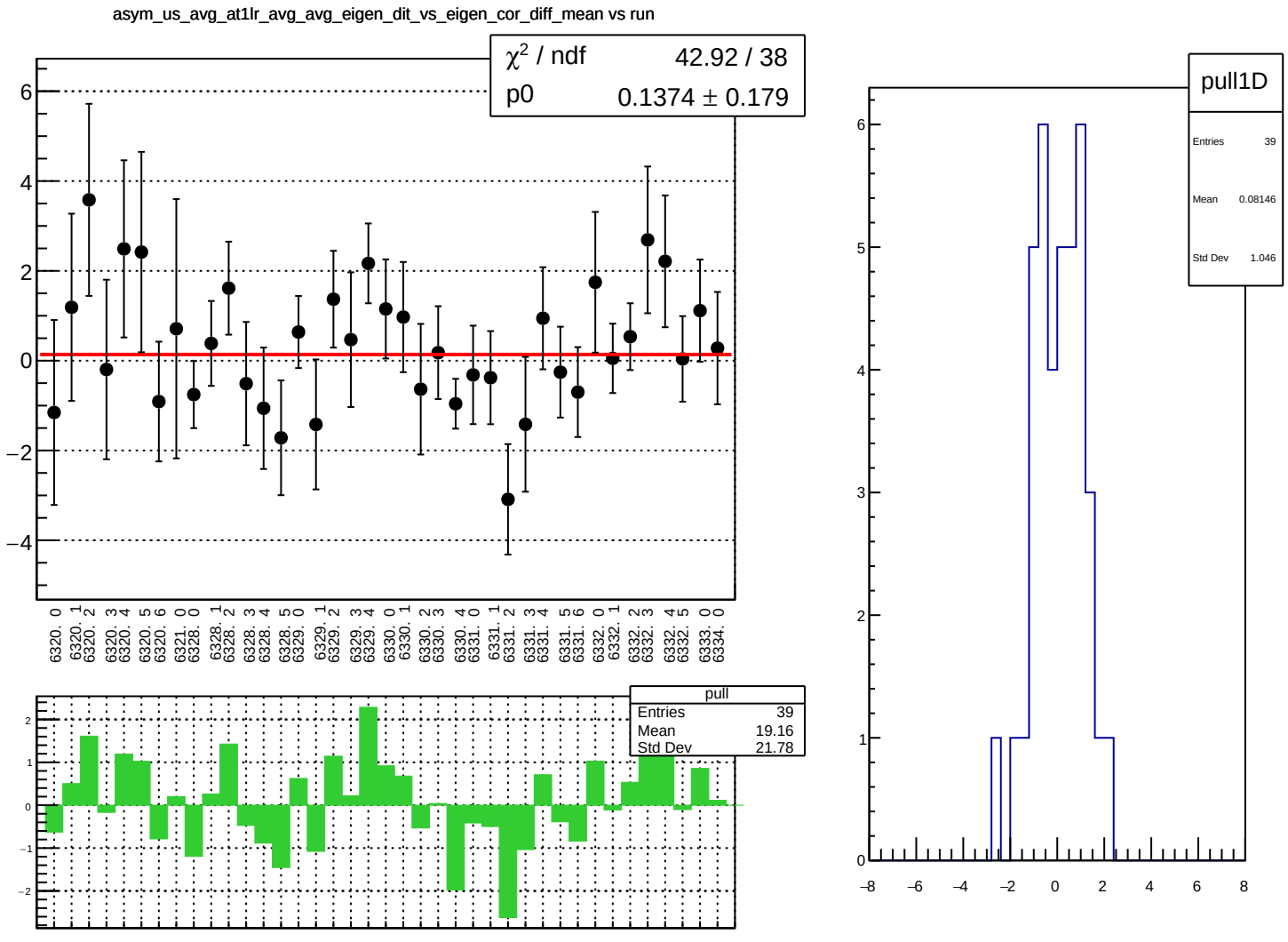

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.74e+04 / 38
p0 105.2 ± 0.1266
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

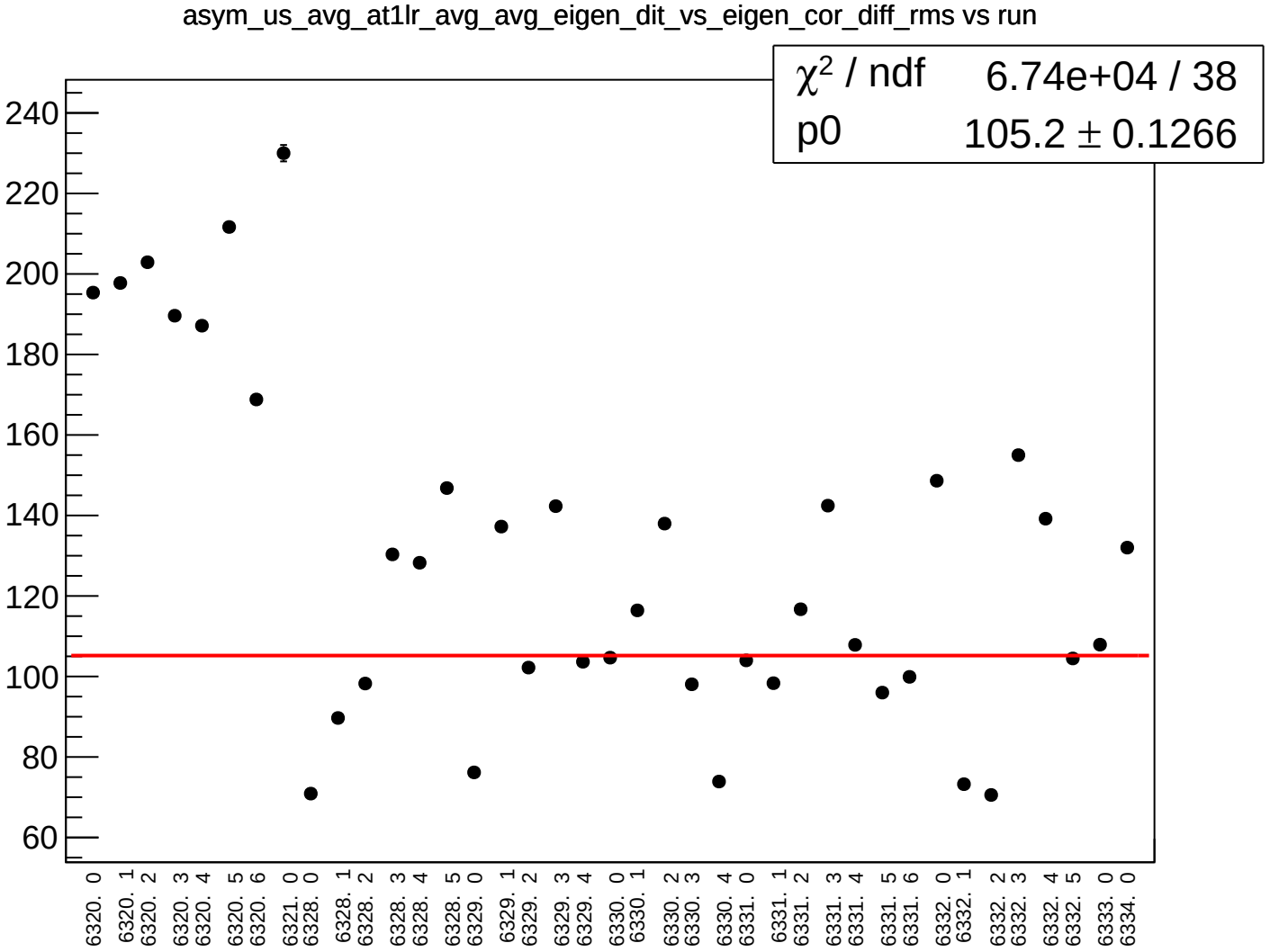

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.19 / 38
p0 −4.209e−06 ± 9.821e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02178
Std Dev 0.8347
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

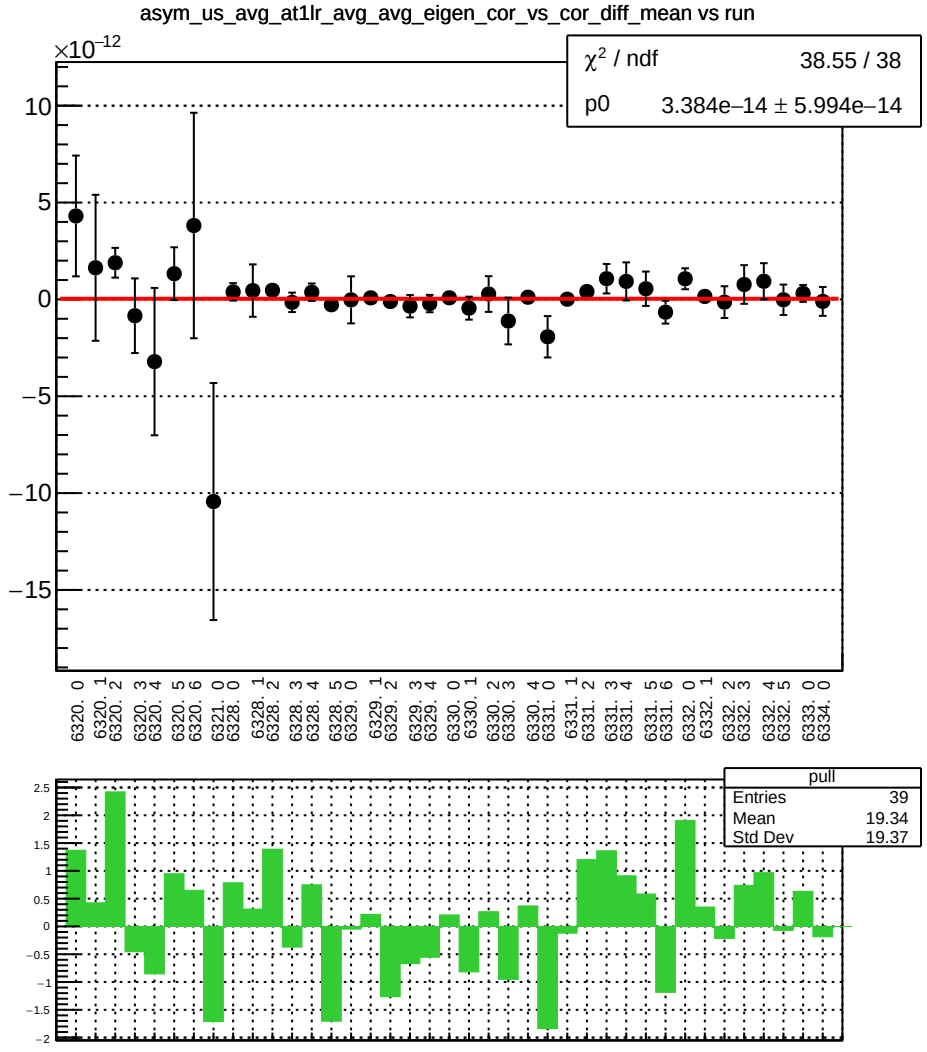

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5836 / 38
p0 0.006023 ± 6.944e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

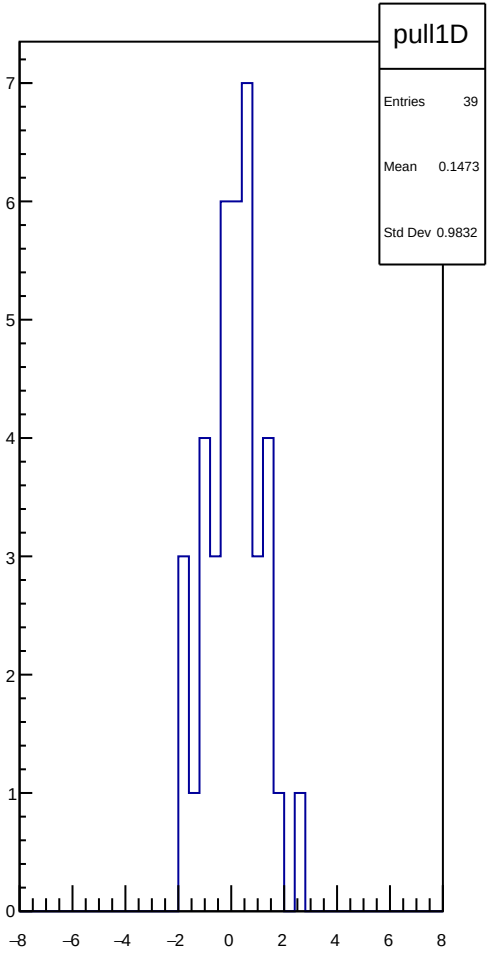

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.92 / 38
p0 0.1374 ± 0.179
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.16
Std Dev 21.78
pull1D
Entries 39
Mean 0.08146
Std Dev 1.046

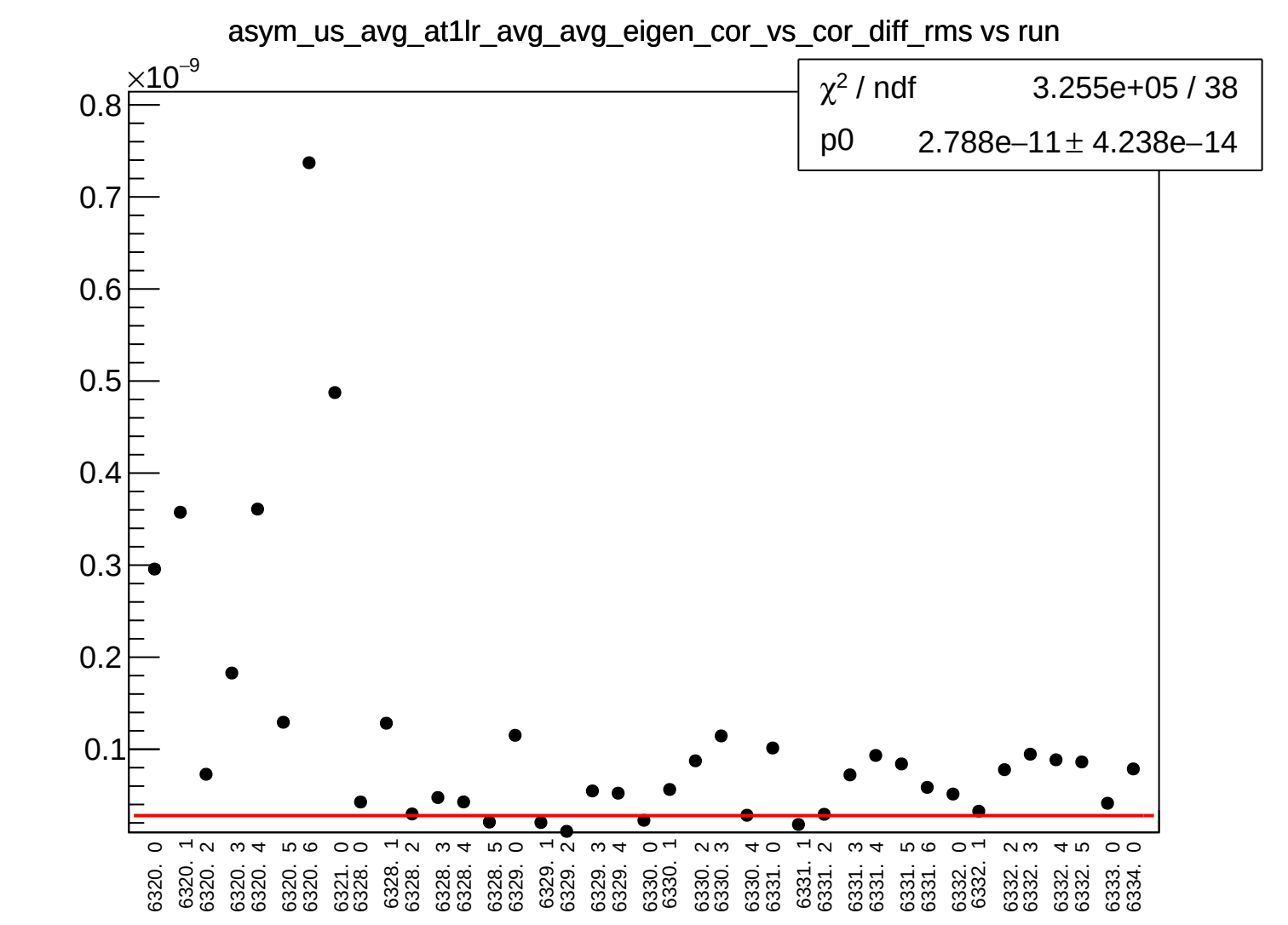

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.74e+04 / 38
p0 105.2 ± 0.1266
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

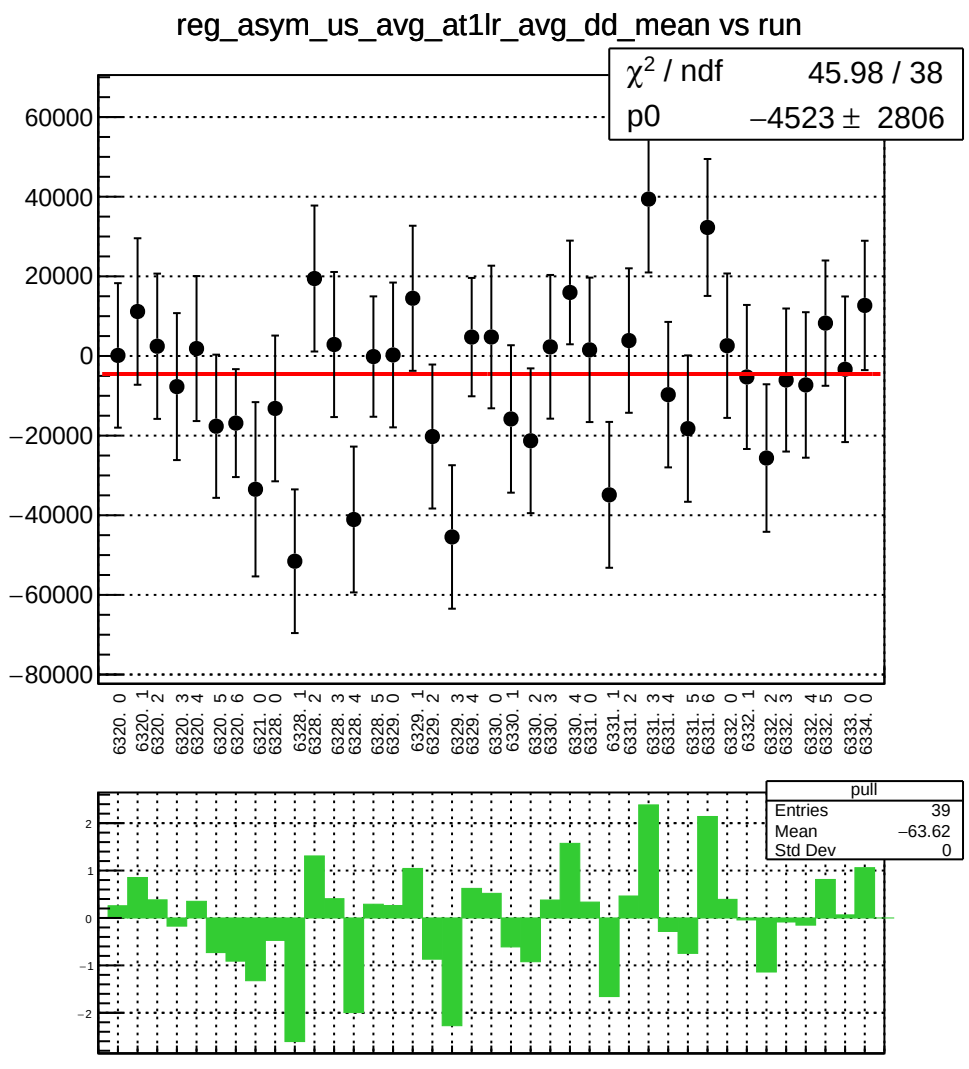

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.92 / 38
p0 0.1374 ± 0.179
6
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.16
Std Dev 21.78
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.08146
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

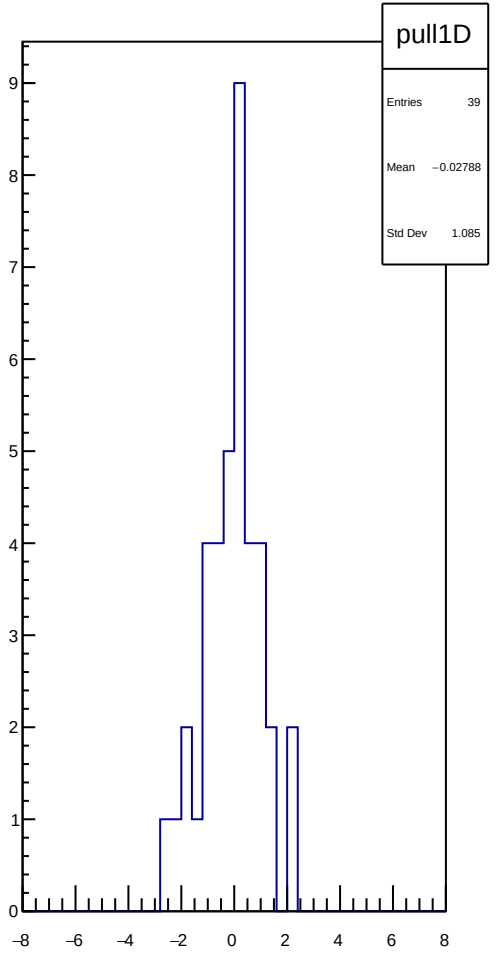

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.74e+04 / 38
p0 105.2 ± 0.1266
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

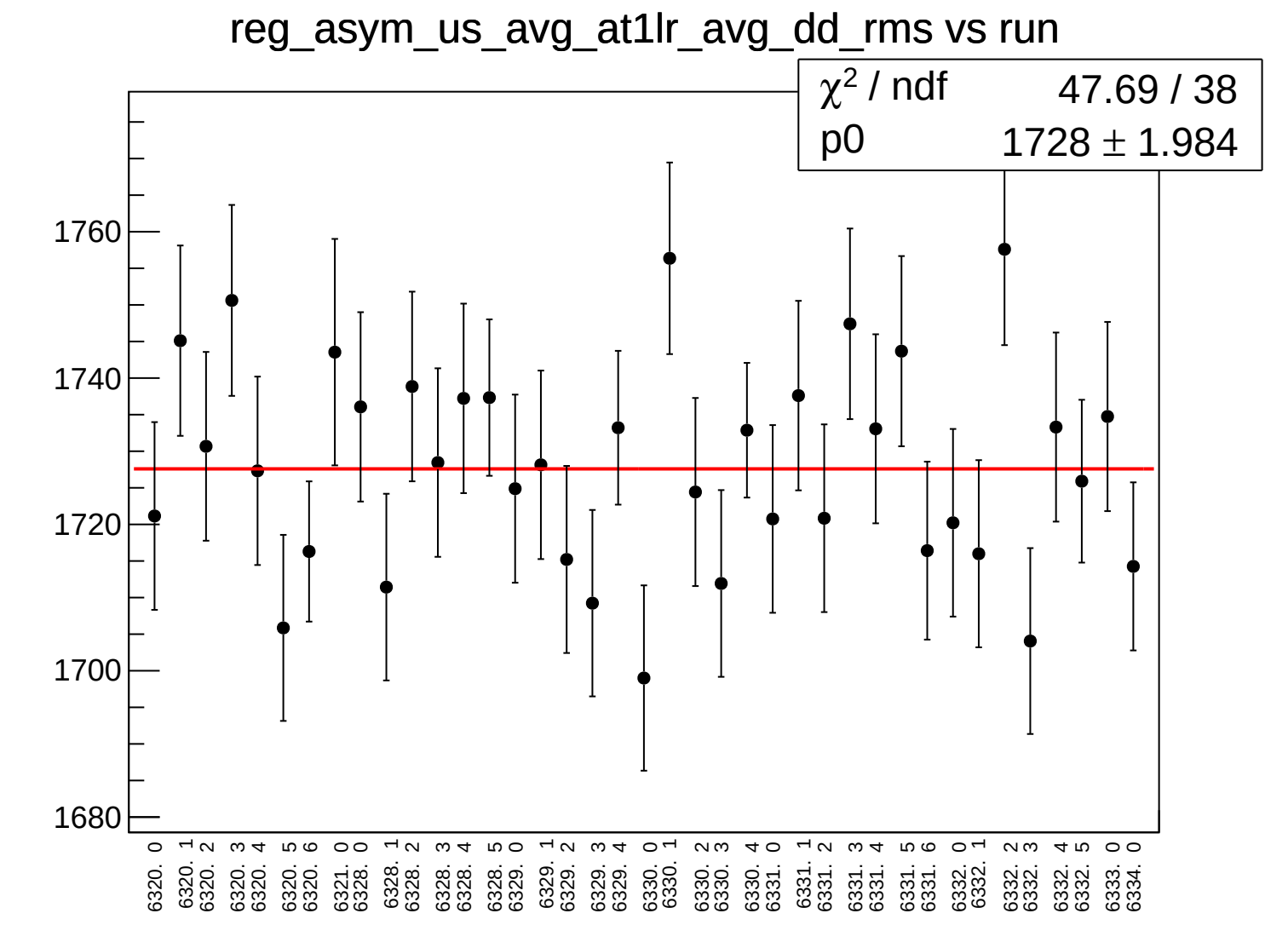

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.55 / 38
p0 3.384e−14 ± 5.994e−14
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.34
Std Dev 19.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

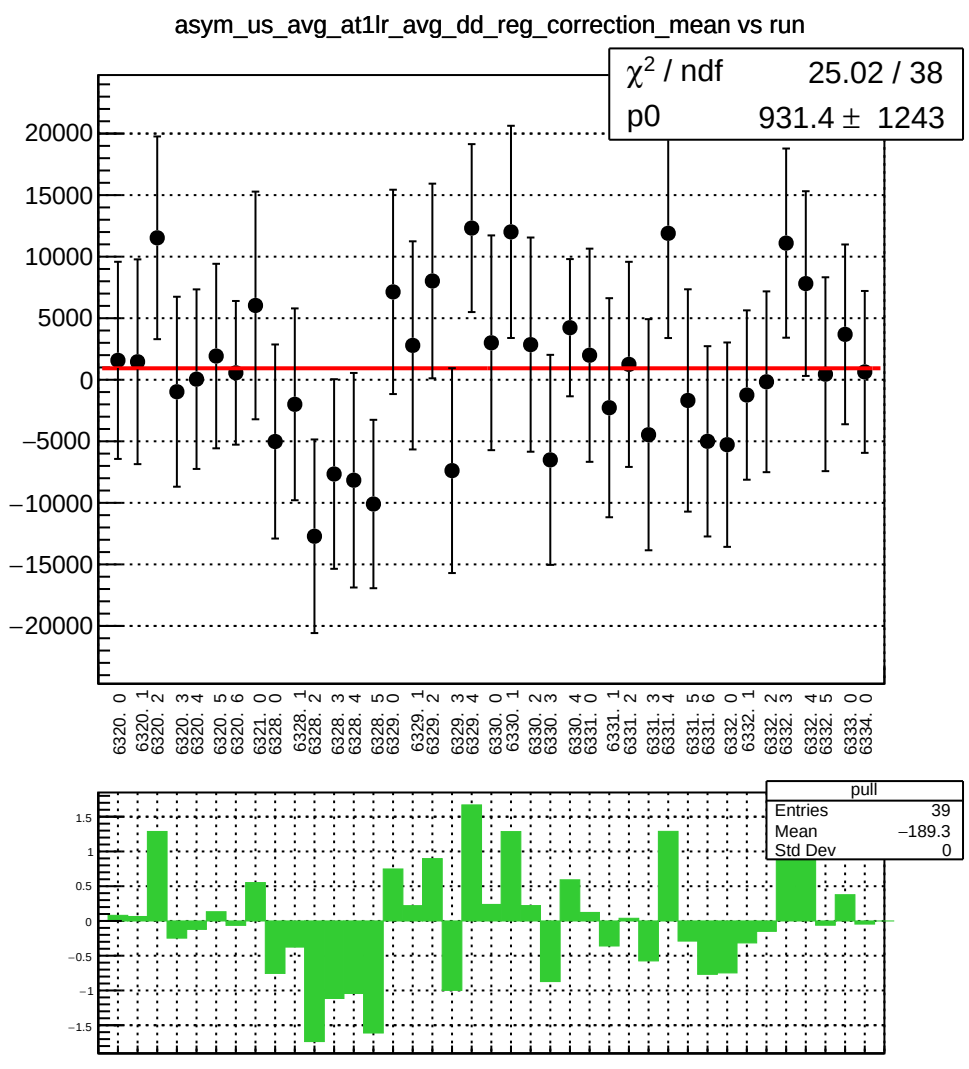

pull1D
Entries 39
Mean 0.1473
Std Dev 0.9832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

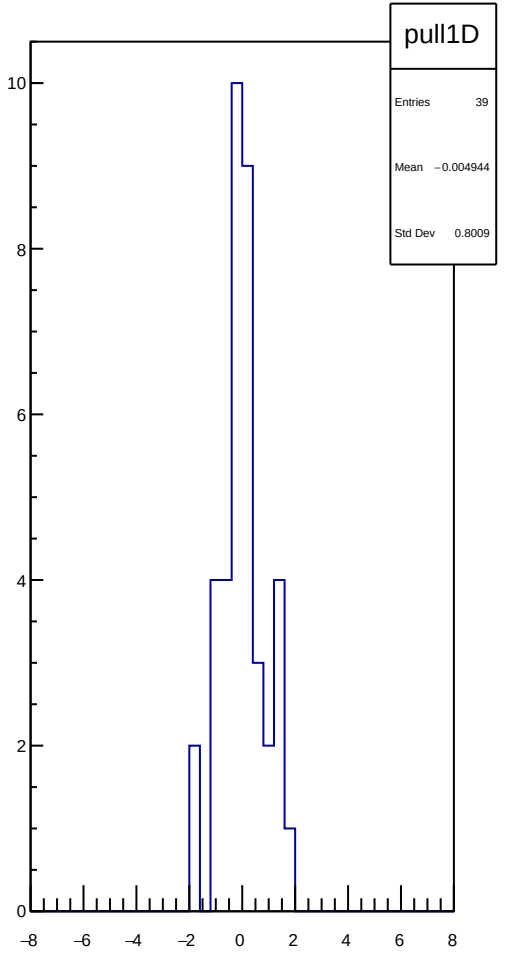

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.255e+05 / 38
p0 2.788e−11 ± 4.238e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

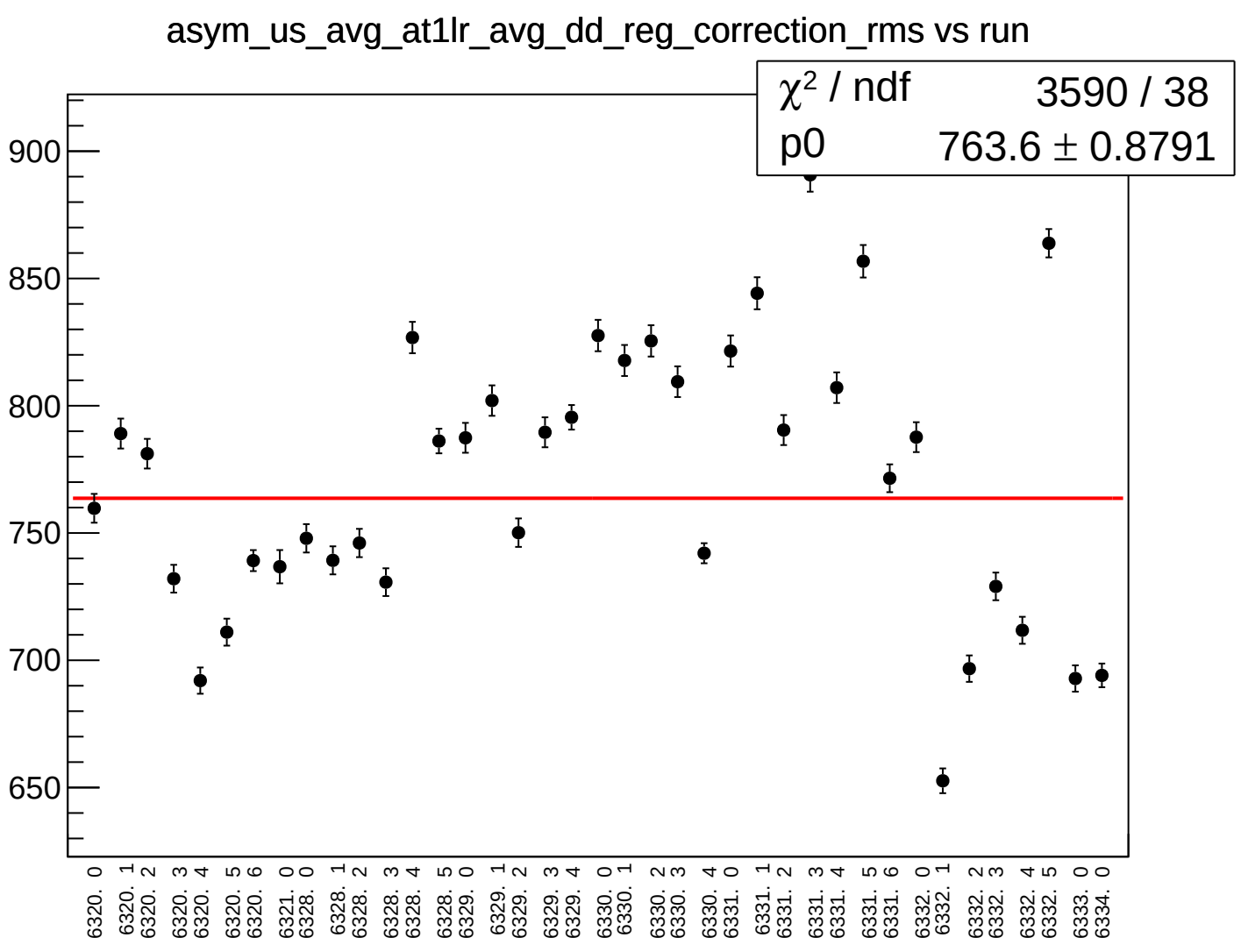

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.98 / 38
p0 −4523 ± 2806
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.62
Std Dev 0
2
1
0
−1
−2

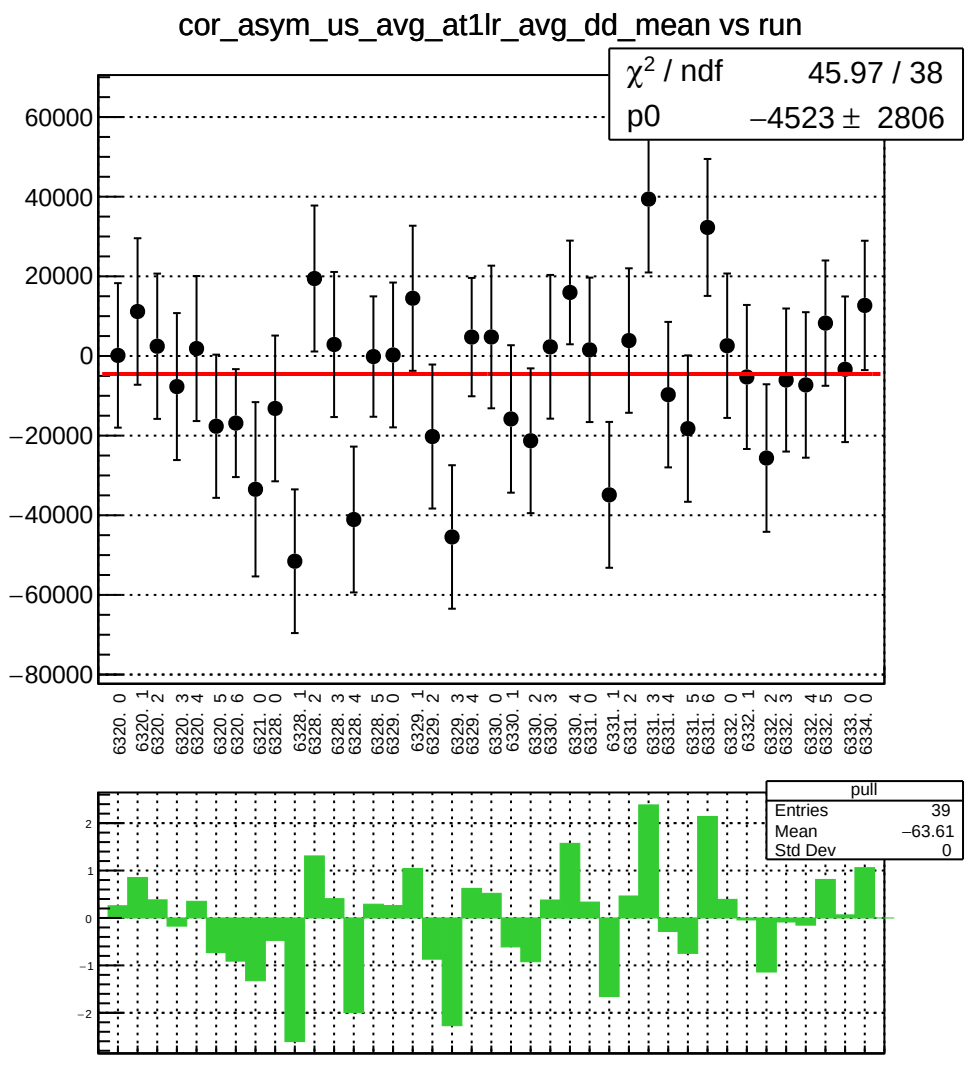

pull1D
Entries 39
Mean −0.02788
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

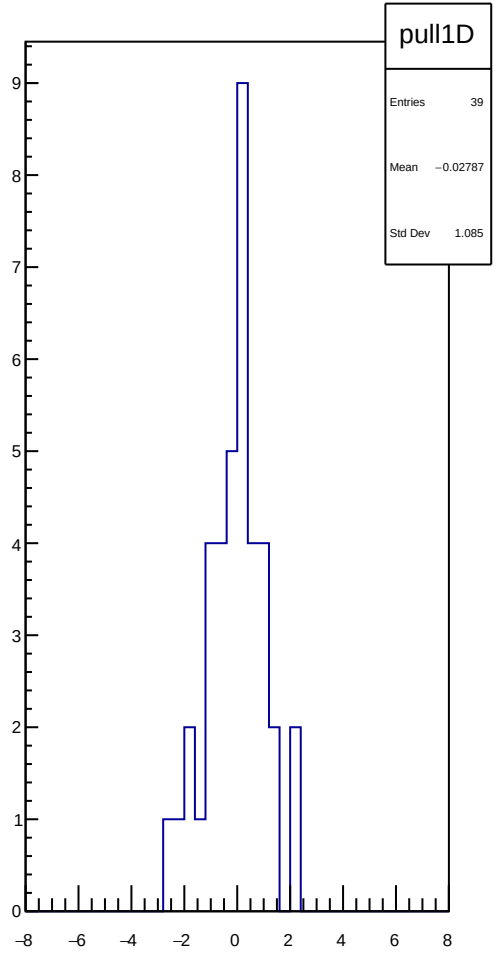

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 47.69 / 38
p0 1728 ± 1.984
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

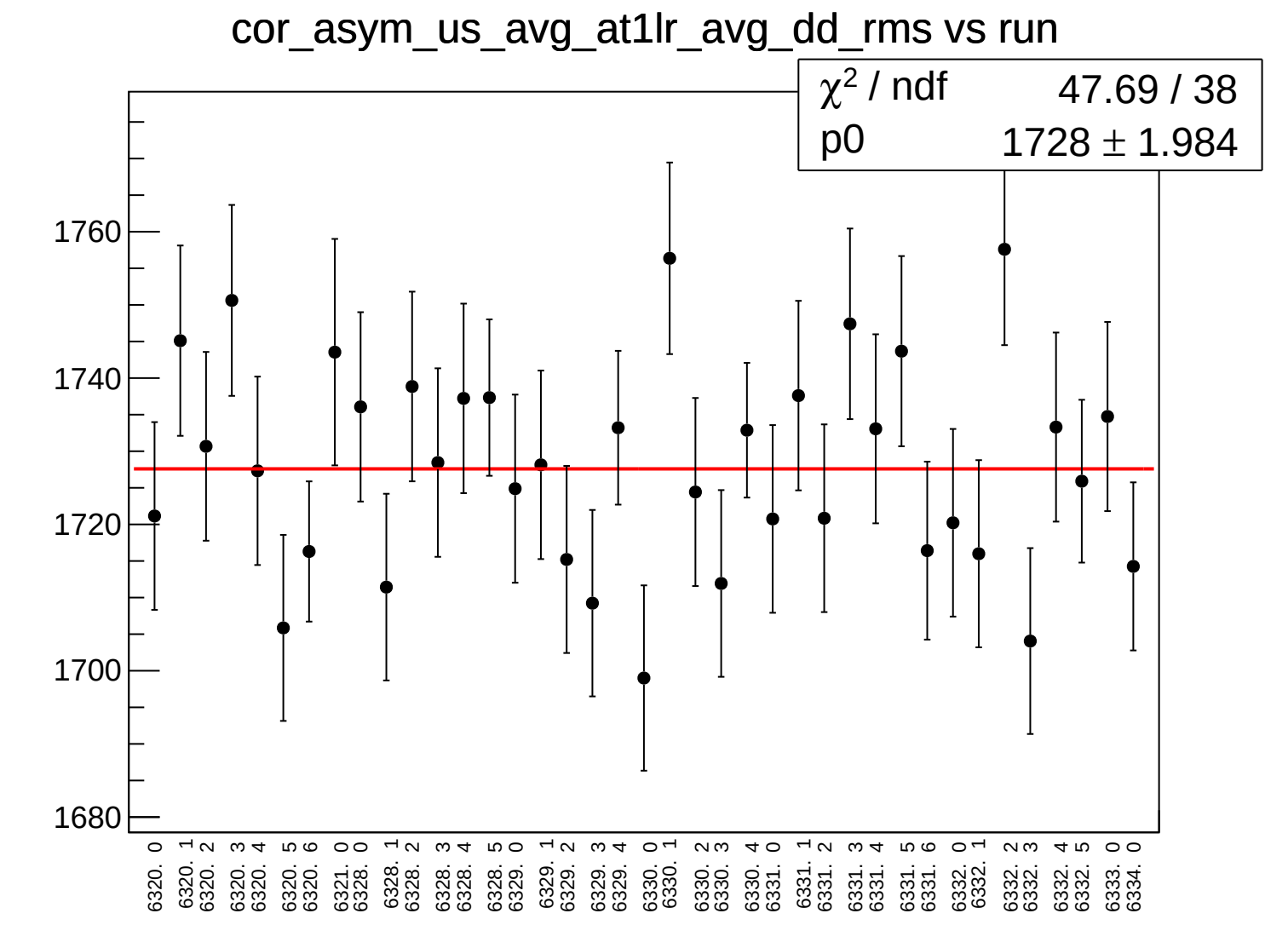

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 25.02 / 38
p0 931.4 ± 1243
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −189.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

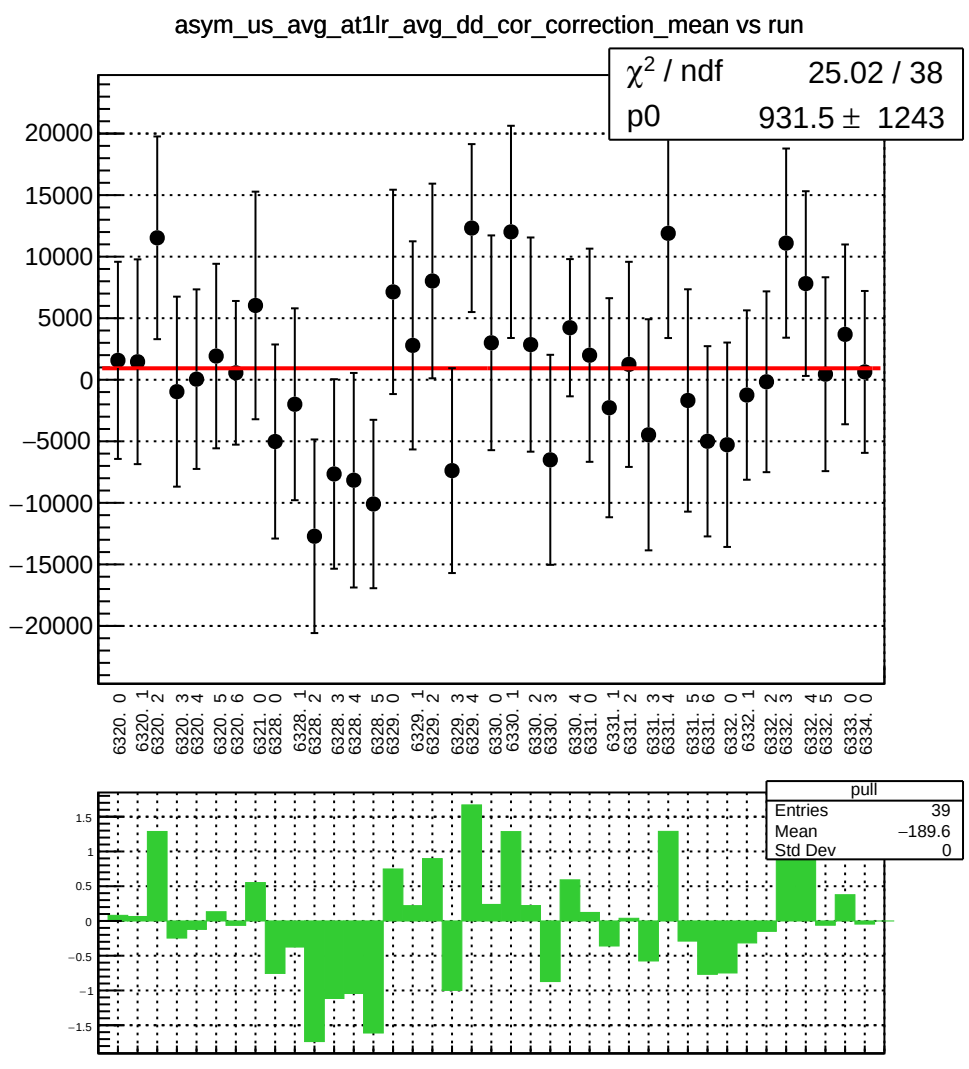

pull1D
Entries 39
Mean −0.004944
Std Dev 0.8009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

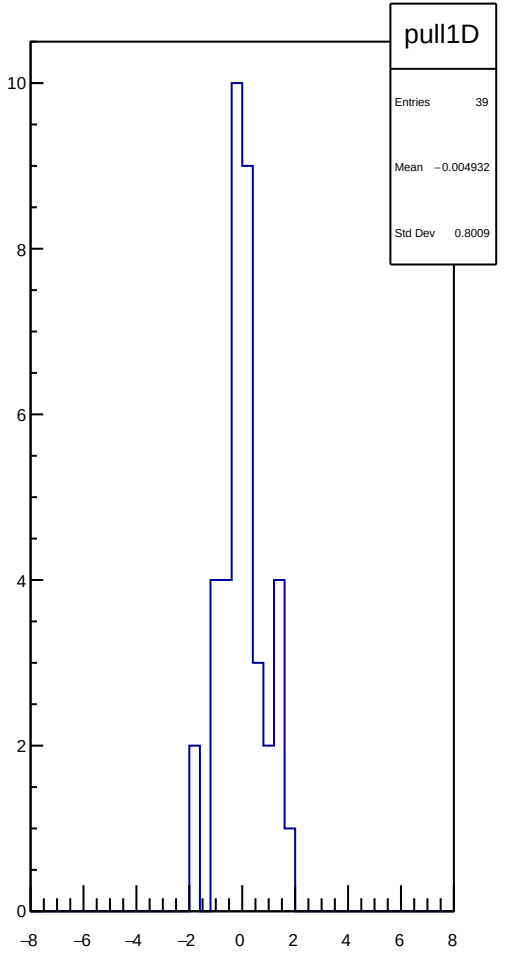

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3590 / 38
p0 763.6 ± 0.8791
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

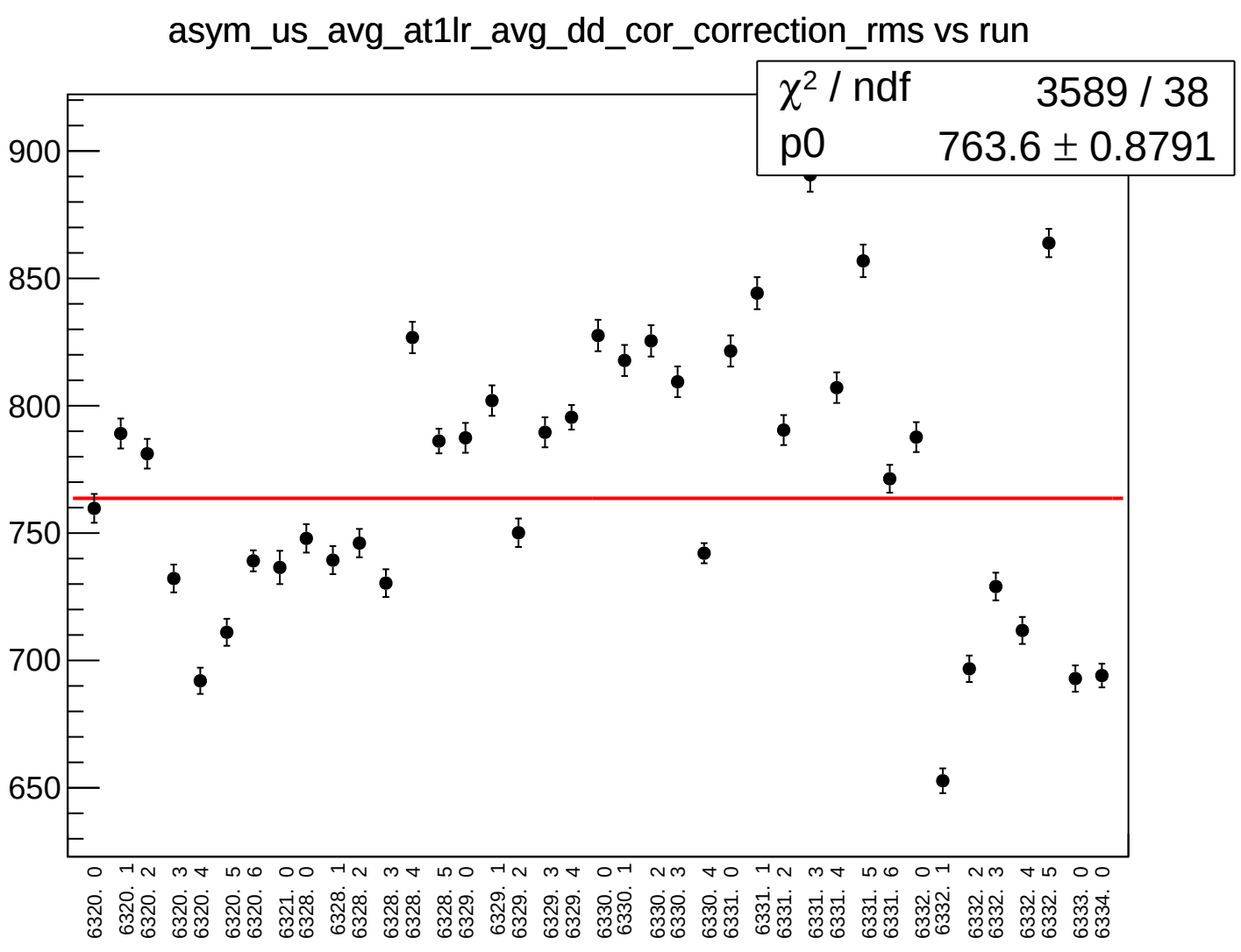

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.97 / 38
p0 −4523 ± 2806
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.61
Std Dev 0
2
1
0
−1
−2

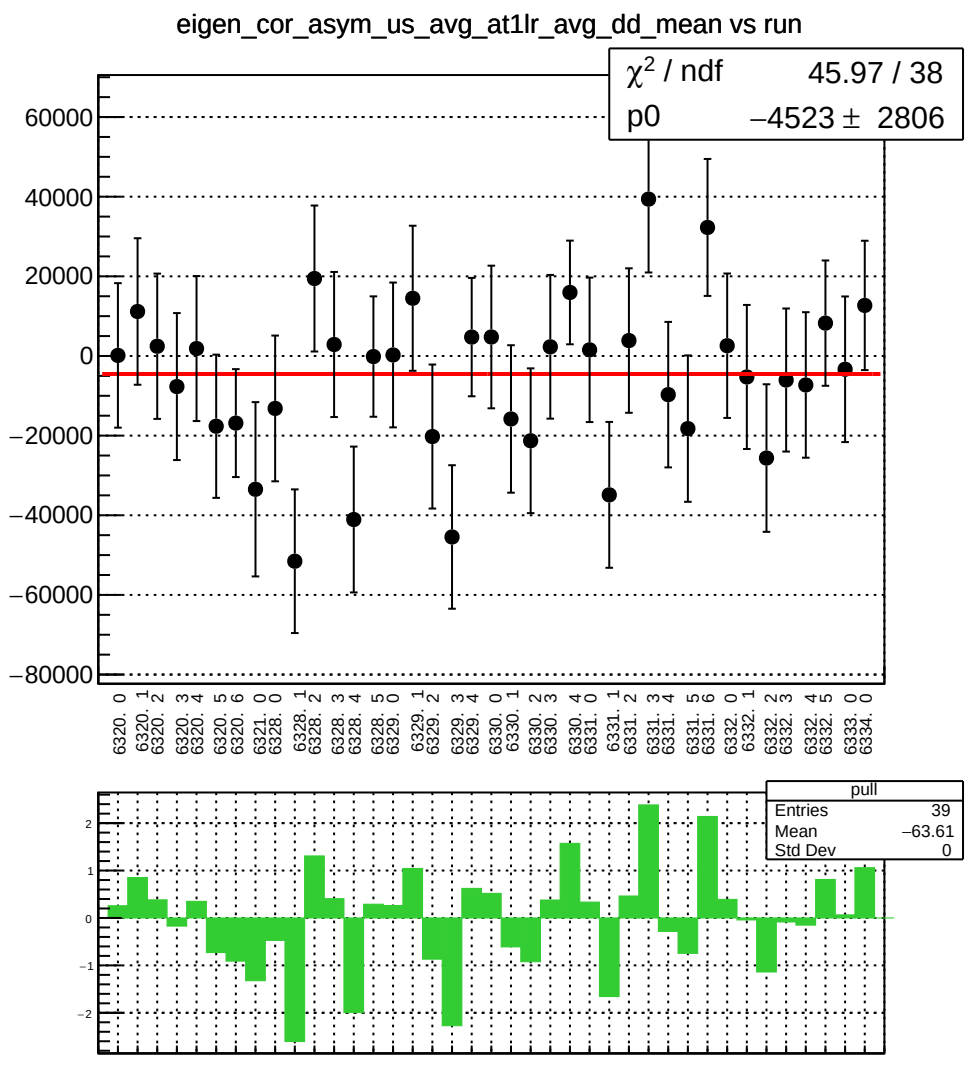

pull1D
Entries 39
Mean −0.02787
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

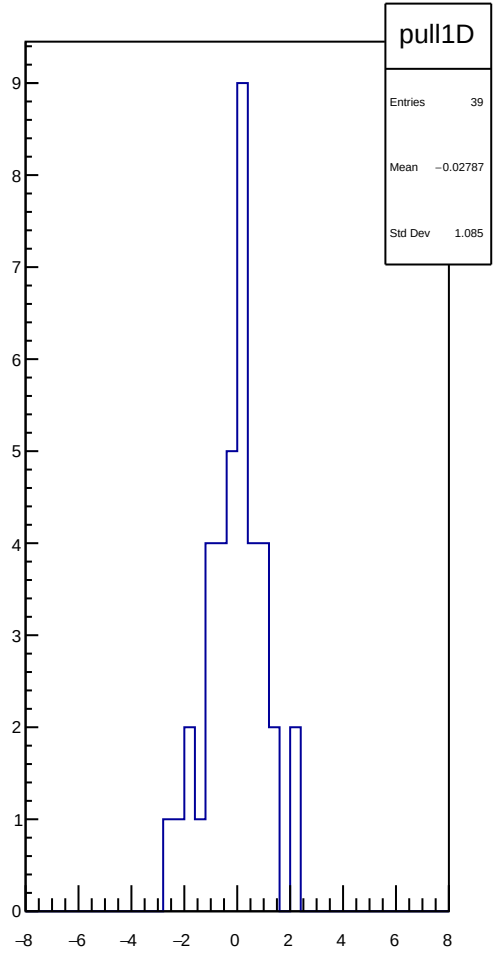

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 47.69 / 38
p0 1728 ± 1.984
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

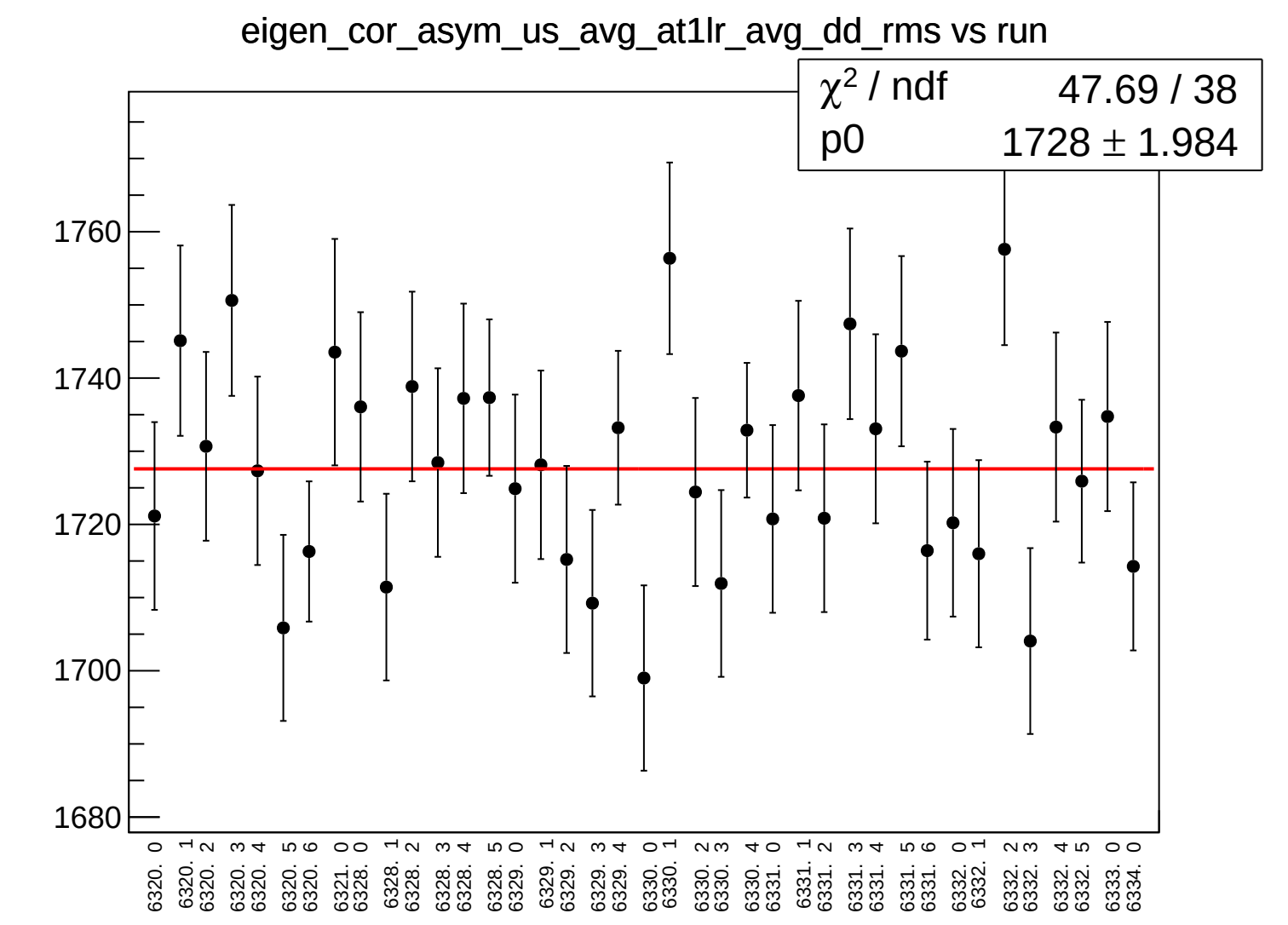

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 25.02 / 38
p0 931.5 ± 1243
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −189.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

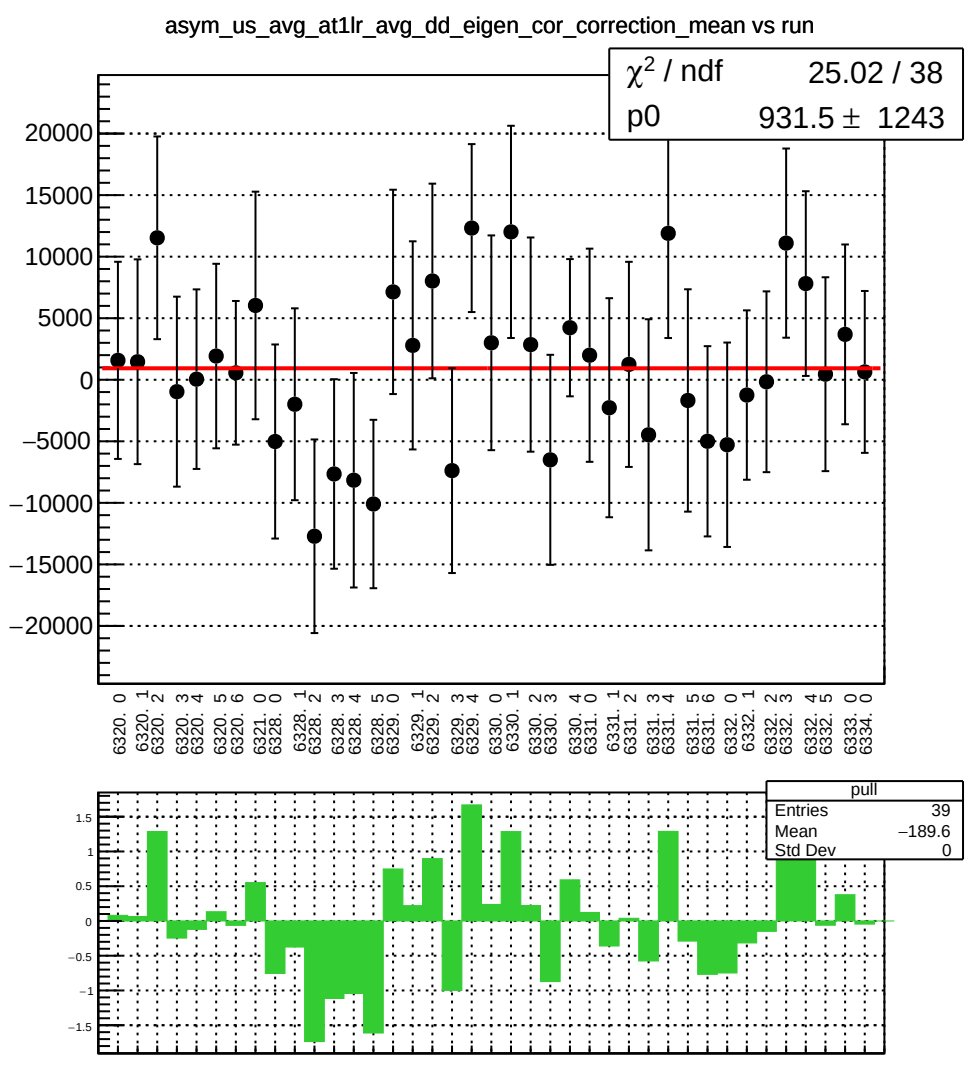

pull1D
Entries 39
Mean −0.004932
Std Dev 0.8009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

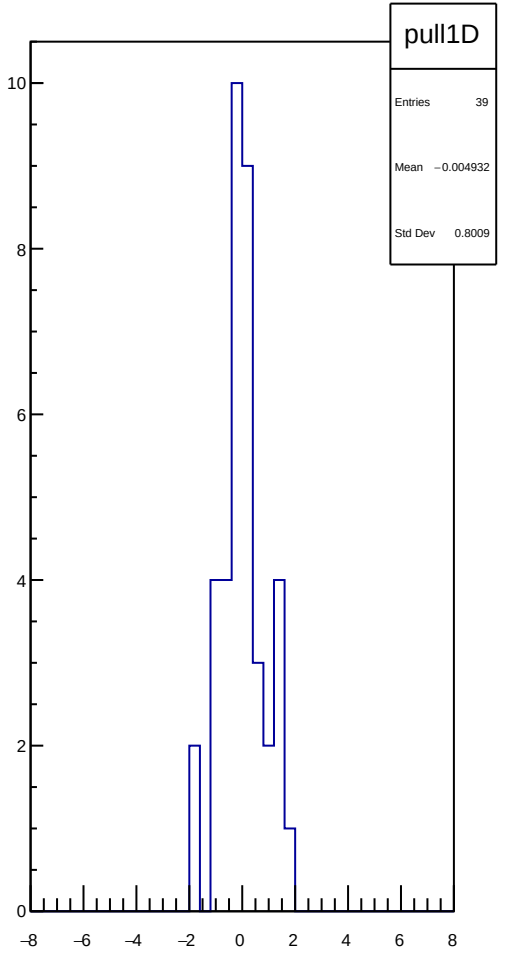

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3589 / 38
p0 763.6 ± 0.8791
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

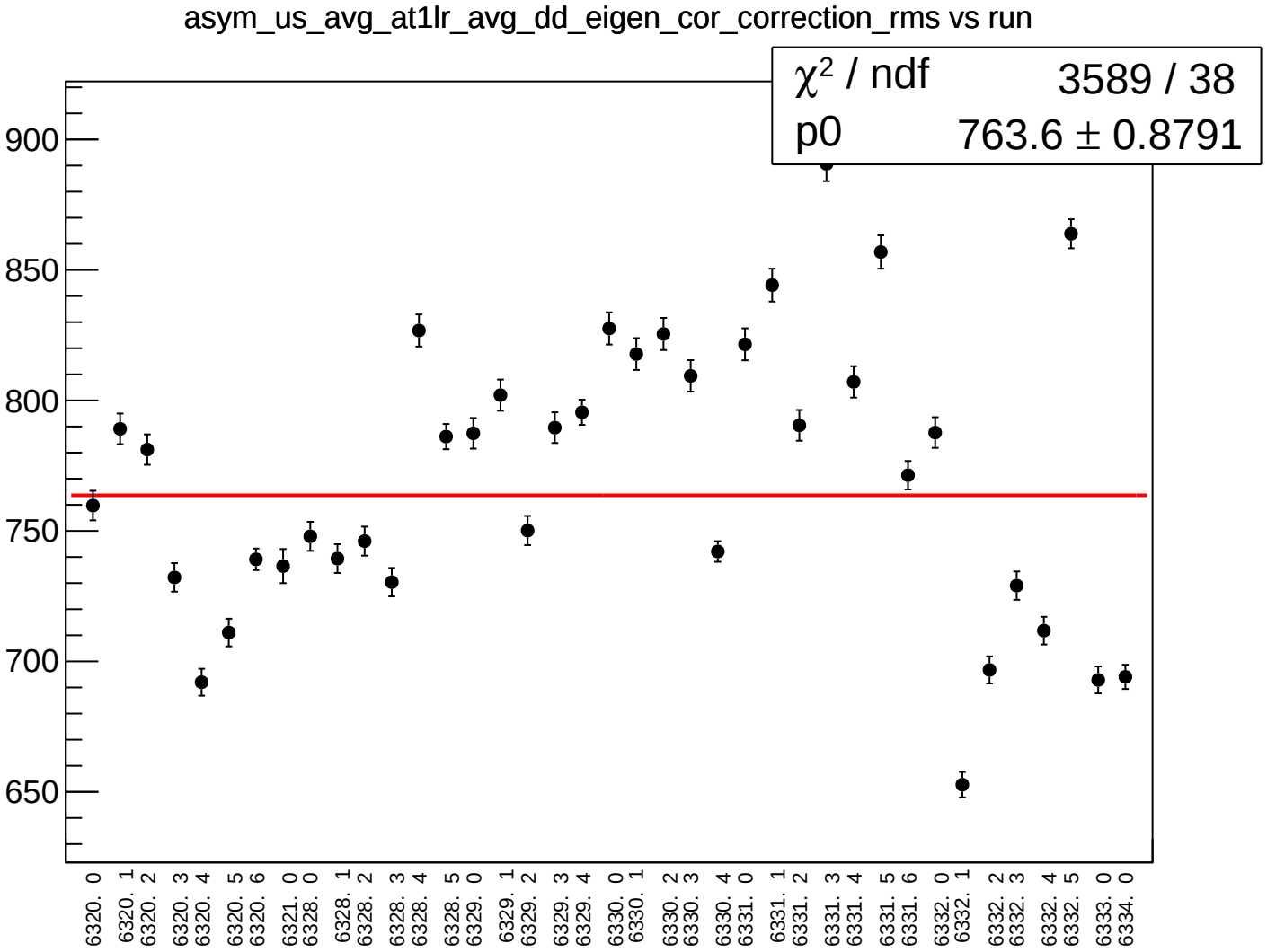

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.97 / 38
p0 −4523 ± 2806
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.61
Std Dev 0
2
1
0
−1
−2

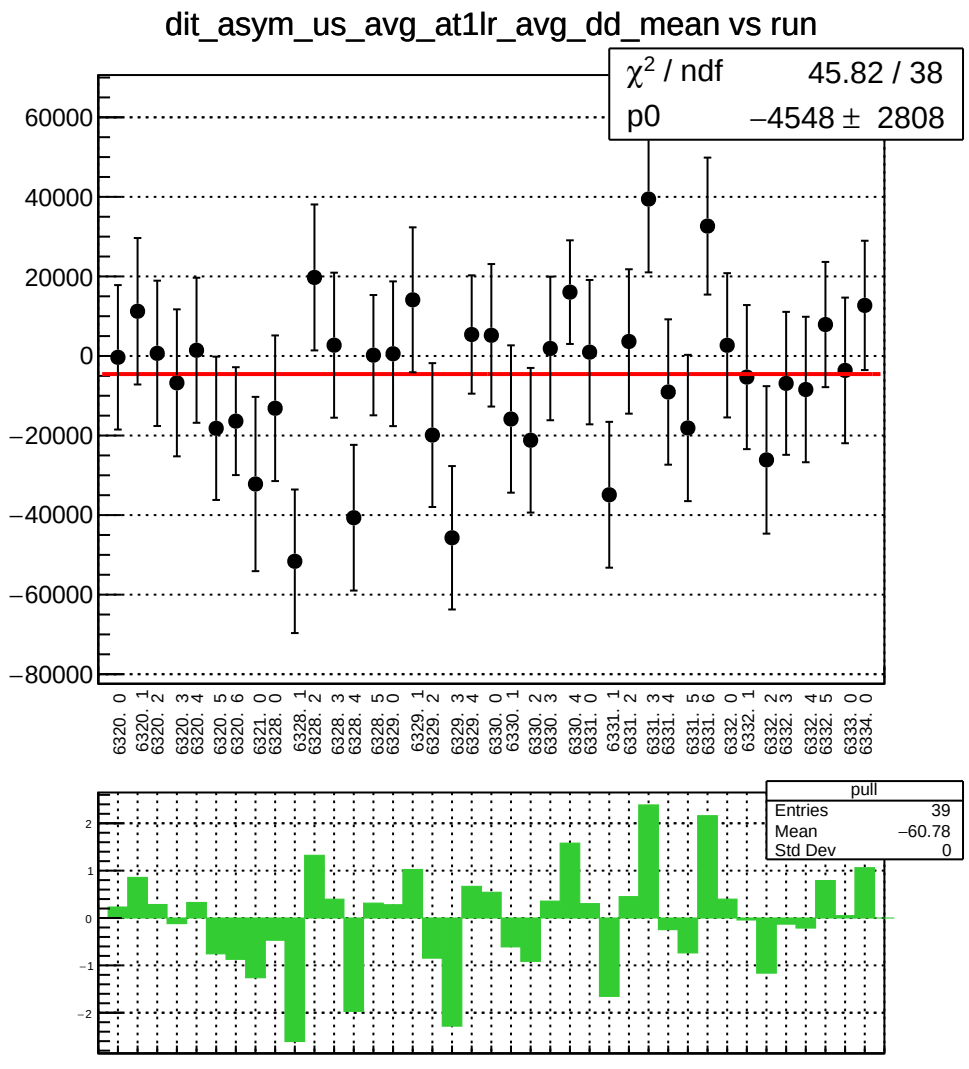

pull1D
Entries 39
Mean −0.02787
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

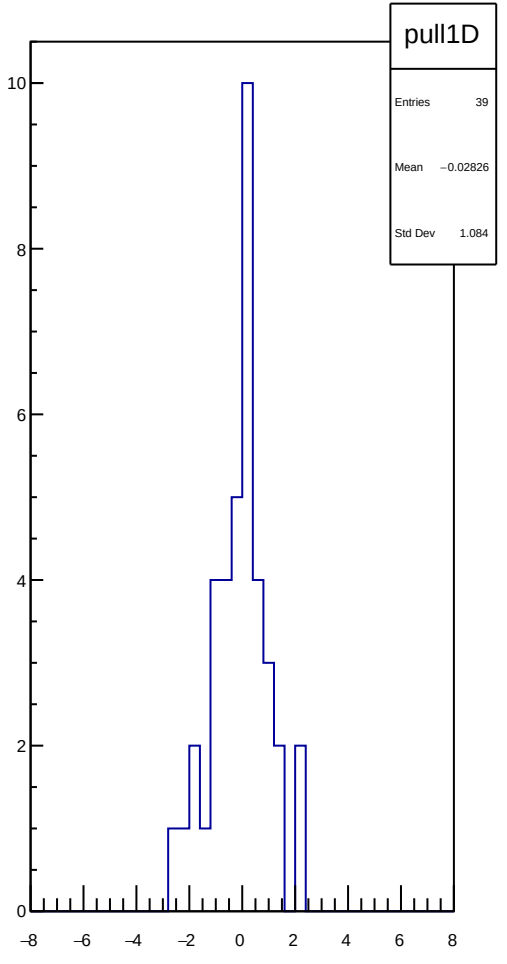

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 47.69 / 38
p0 1728 ± 1.984
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

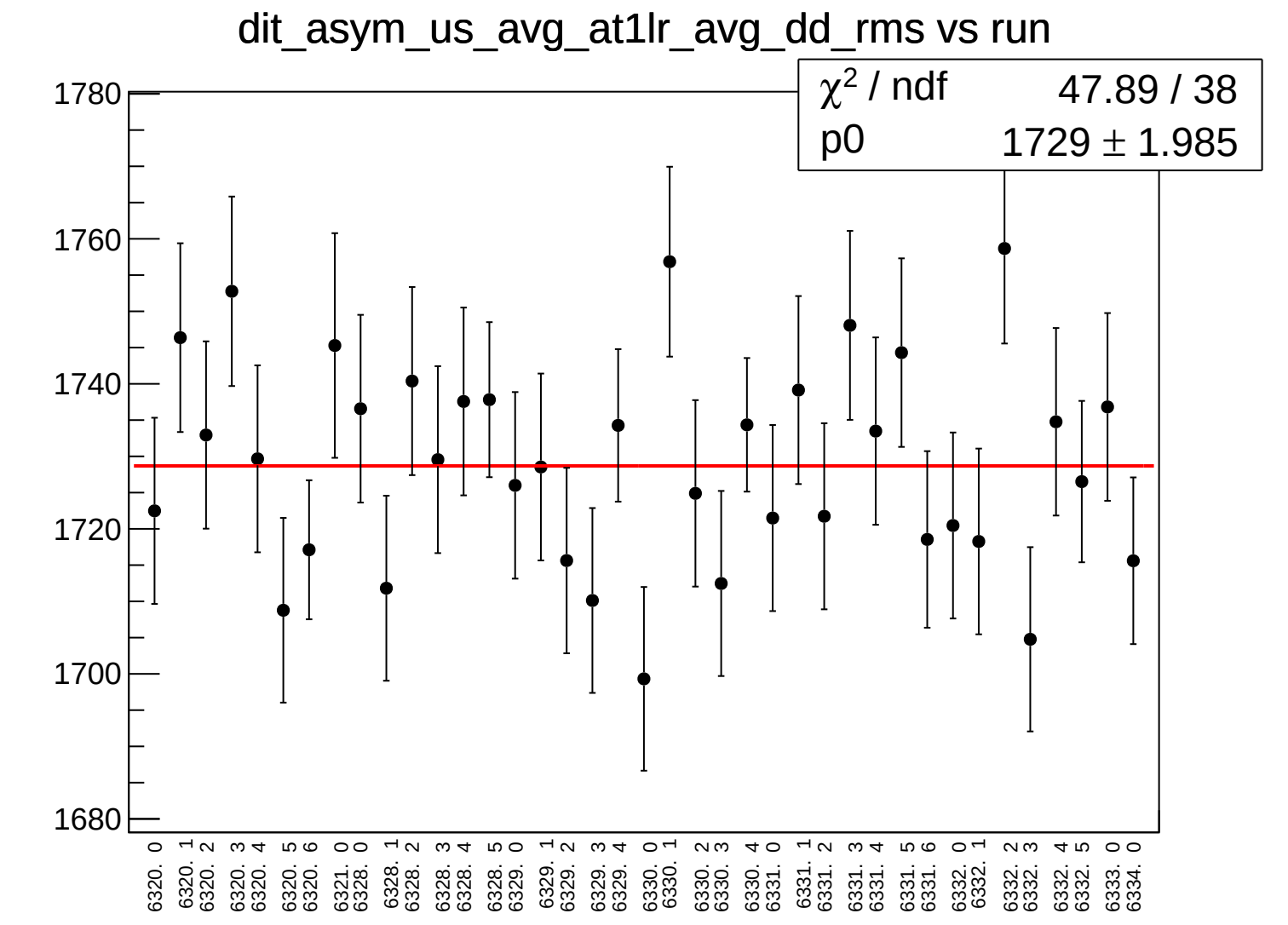

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.02 / 38
p0 931.5 ± 1243
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −189.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

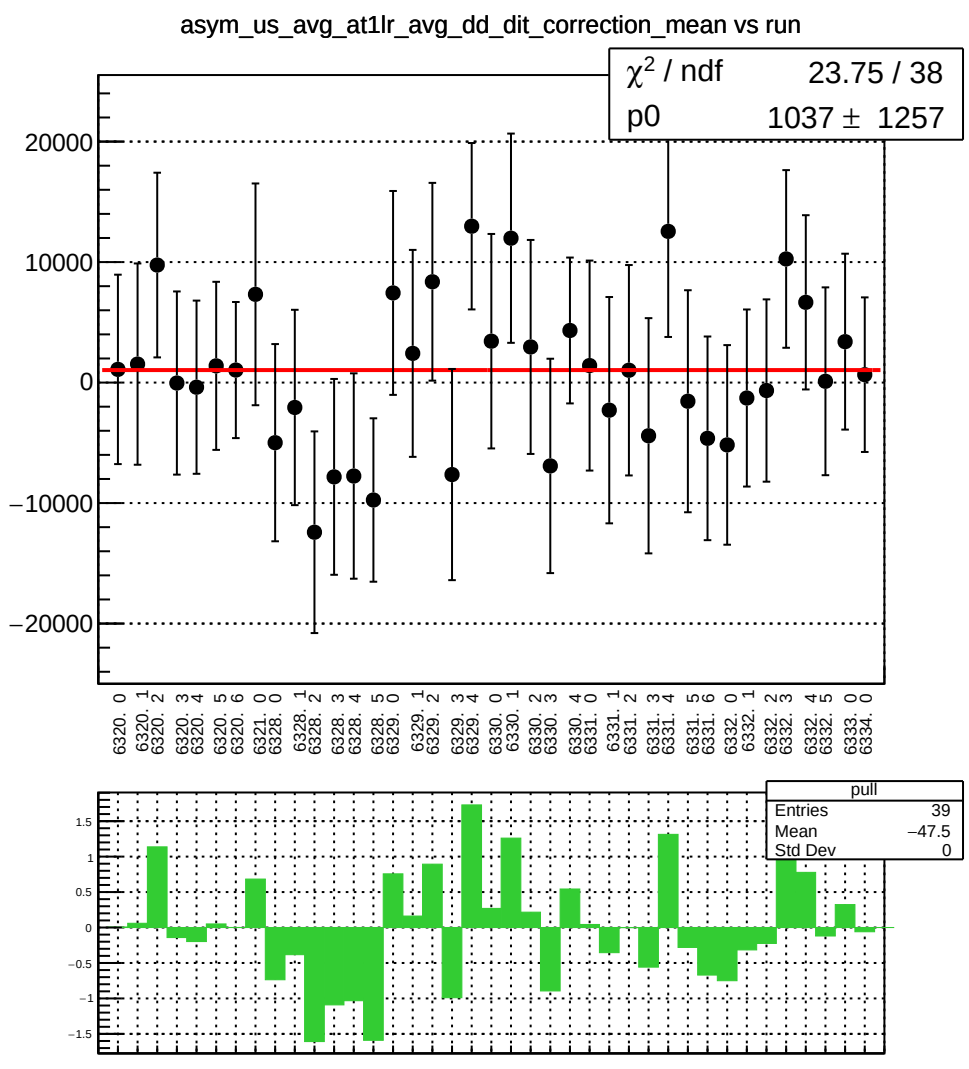

pull1D
Entries 39
Mean −0.004932
Std Dev 0.8009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

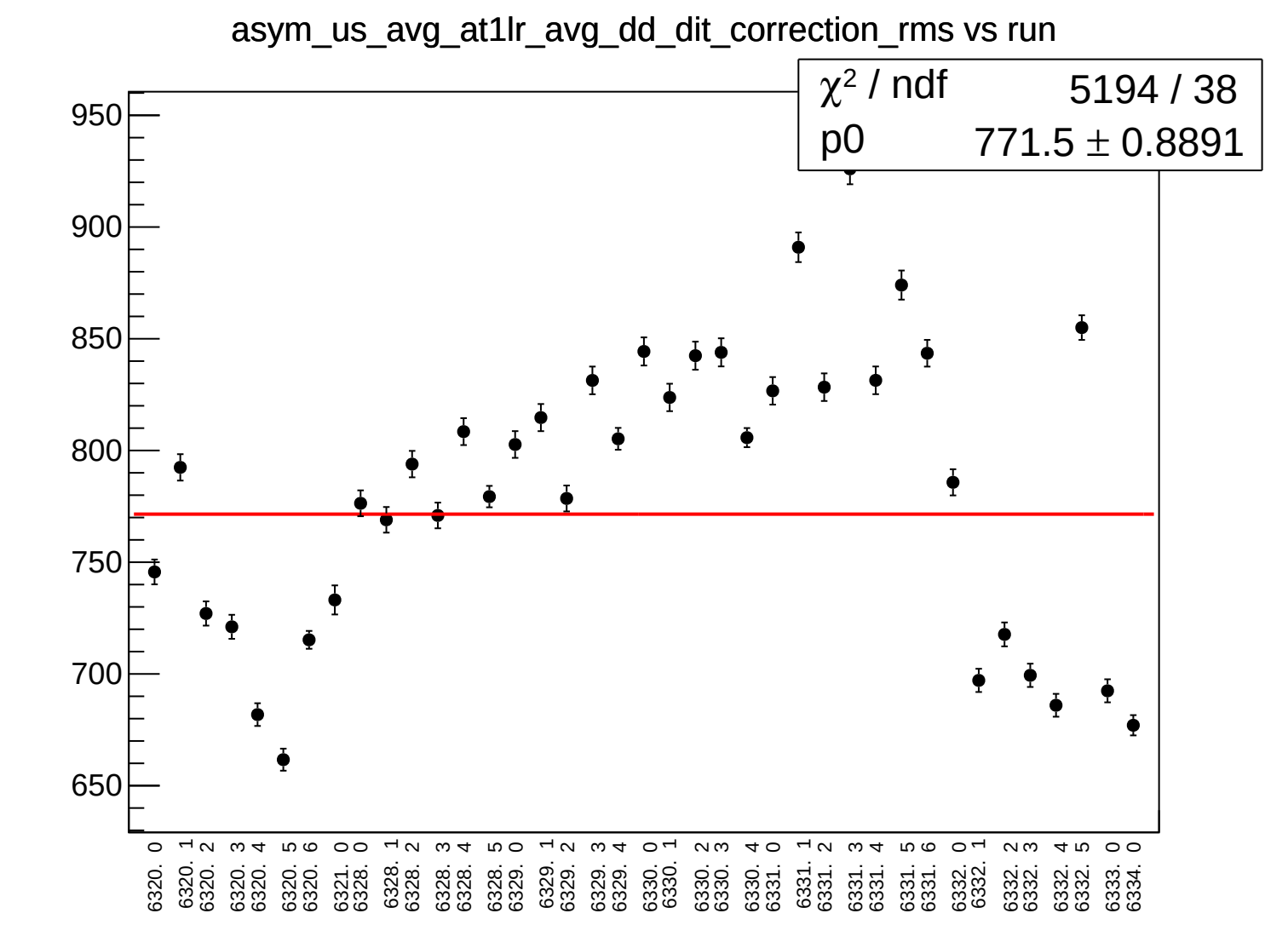

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3589 / 38
p0 763.6 ± 0.8791
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

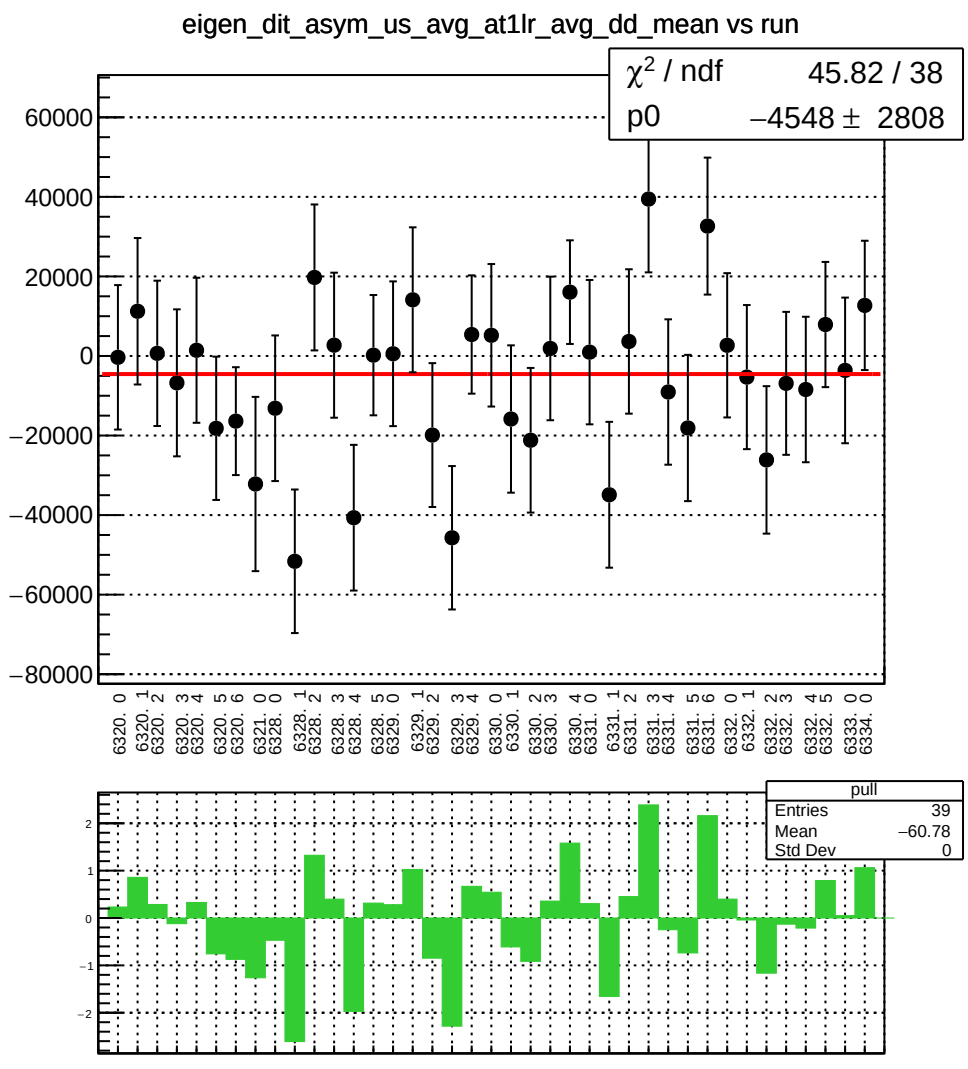

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.82 / 38
p0 −4548 ± 2808
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.78
Std Dev 0
2
1
0
−1
−2

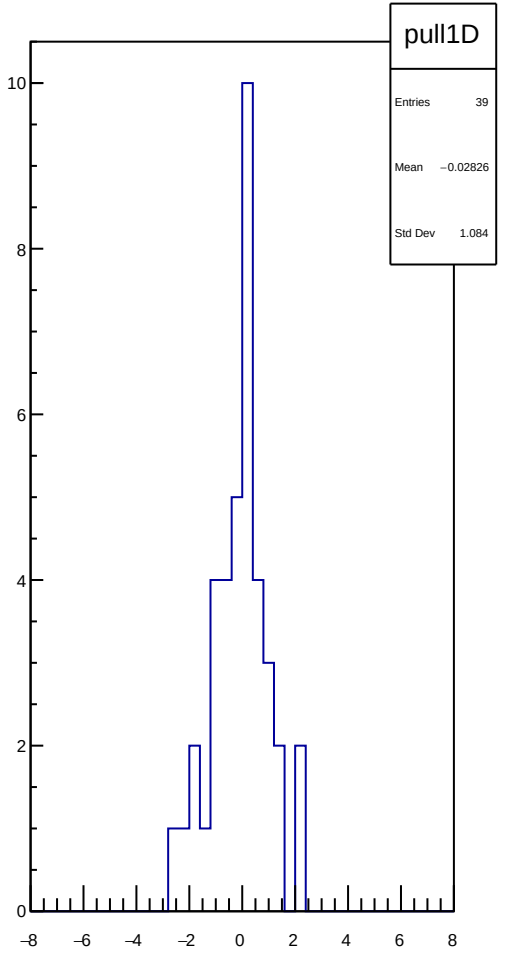

pull1D
Entries 39
Mean −0.02826
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

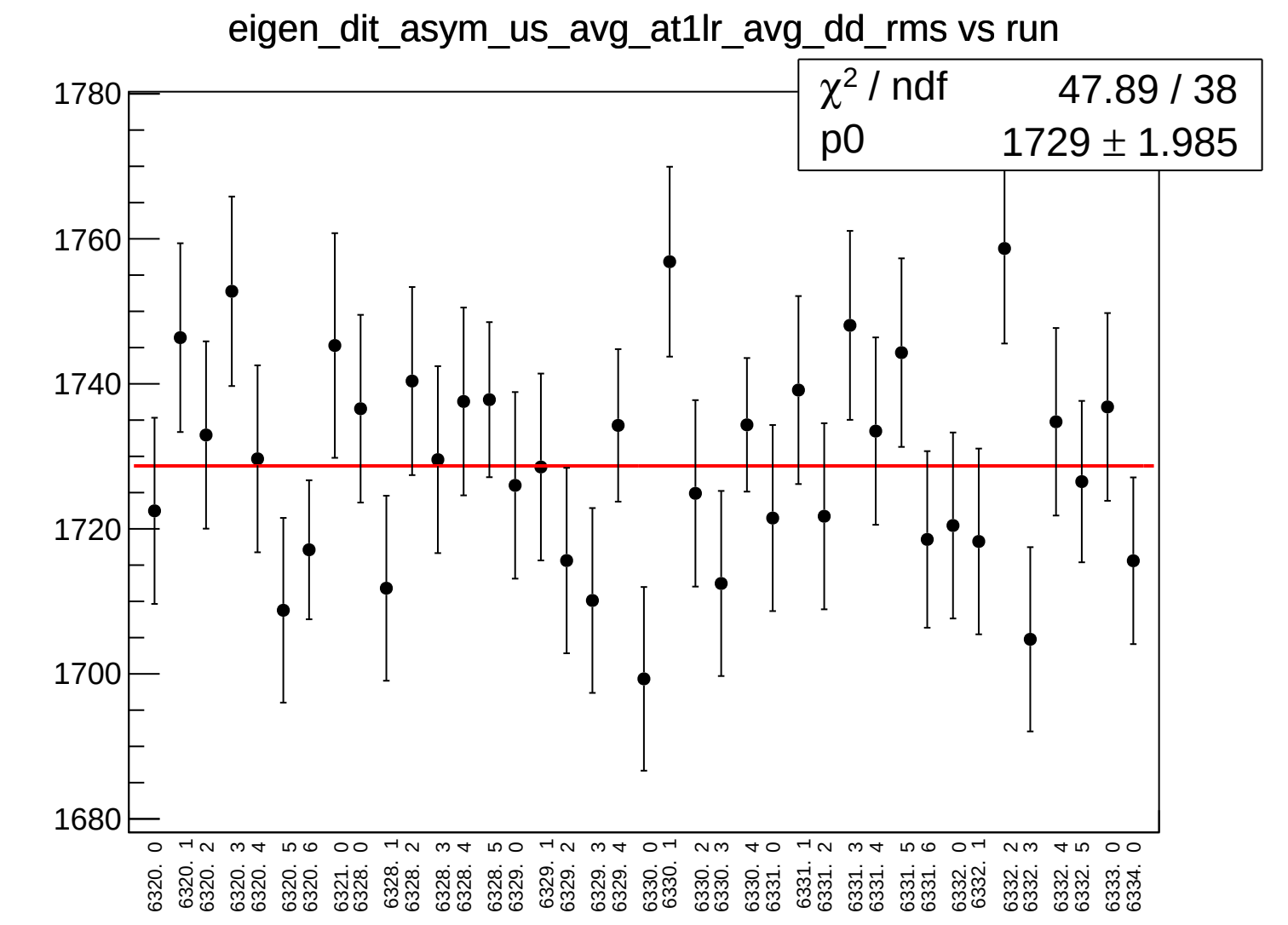

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 47.89 / 38
p0 1729 ± 1.985
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

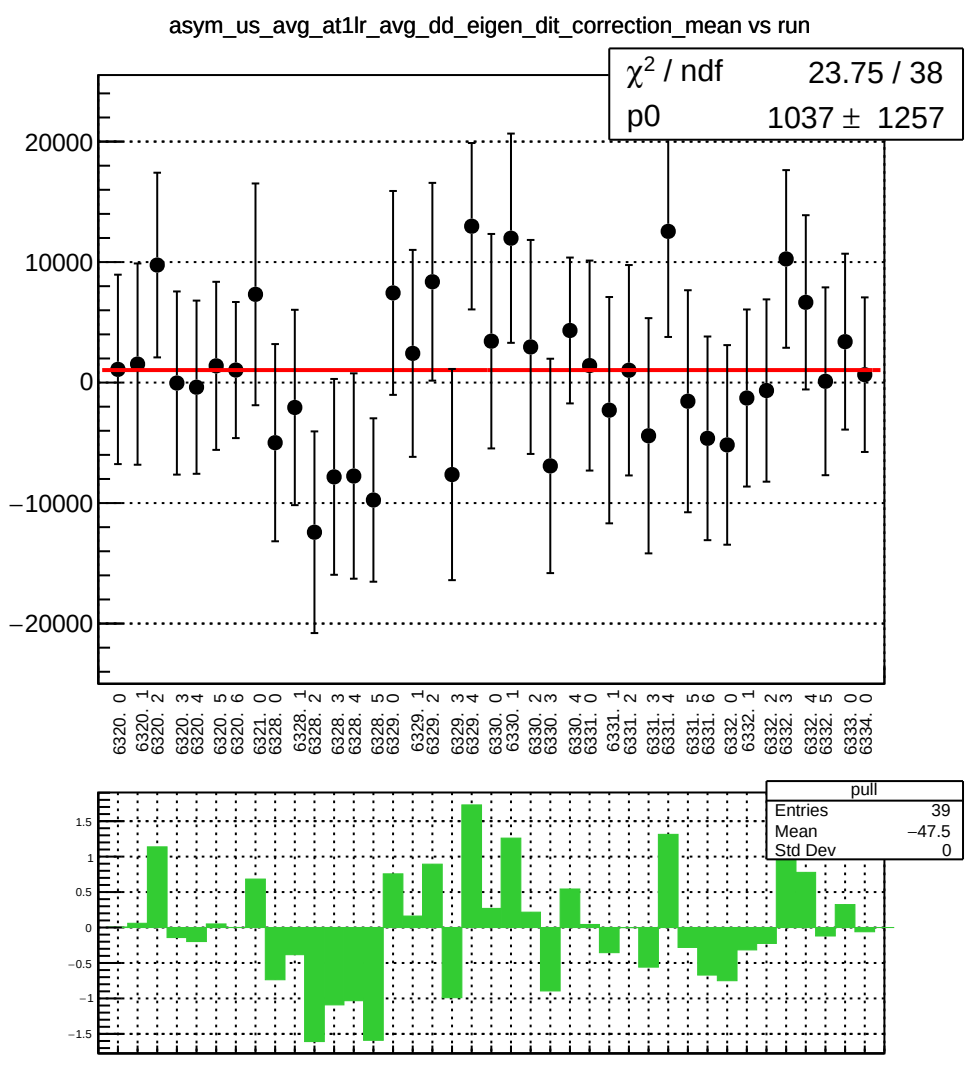

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 23.75 / 38
p0 1037 ± 1257
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01334
Std Dev 0.7802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

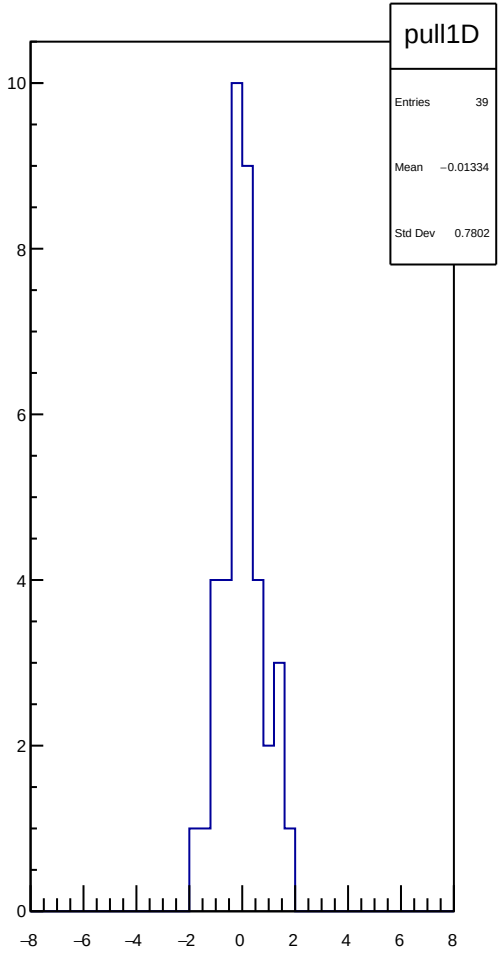

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5194 / 38
p0 771.5 ± 0.8891
950
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

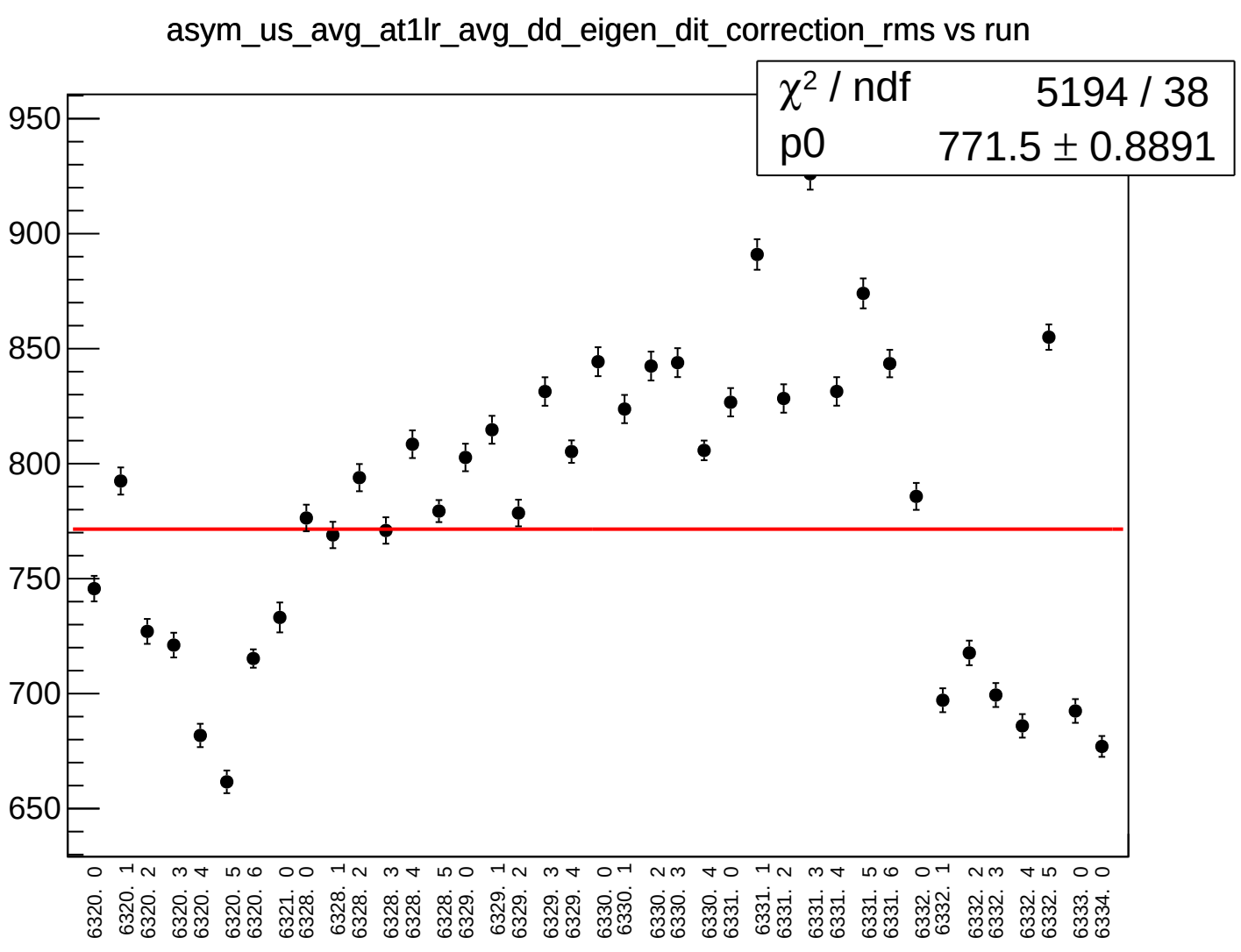

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.82 / 38
p0 −4548 ± 2808
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.78
Std Dev 0
2
1
0
−1
−2

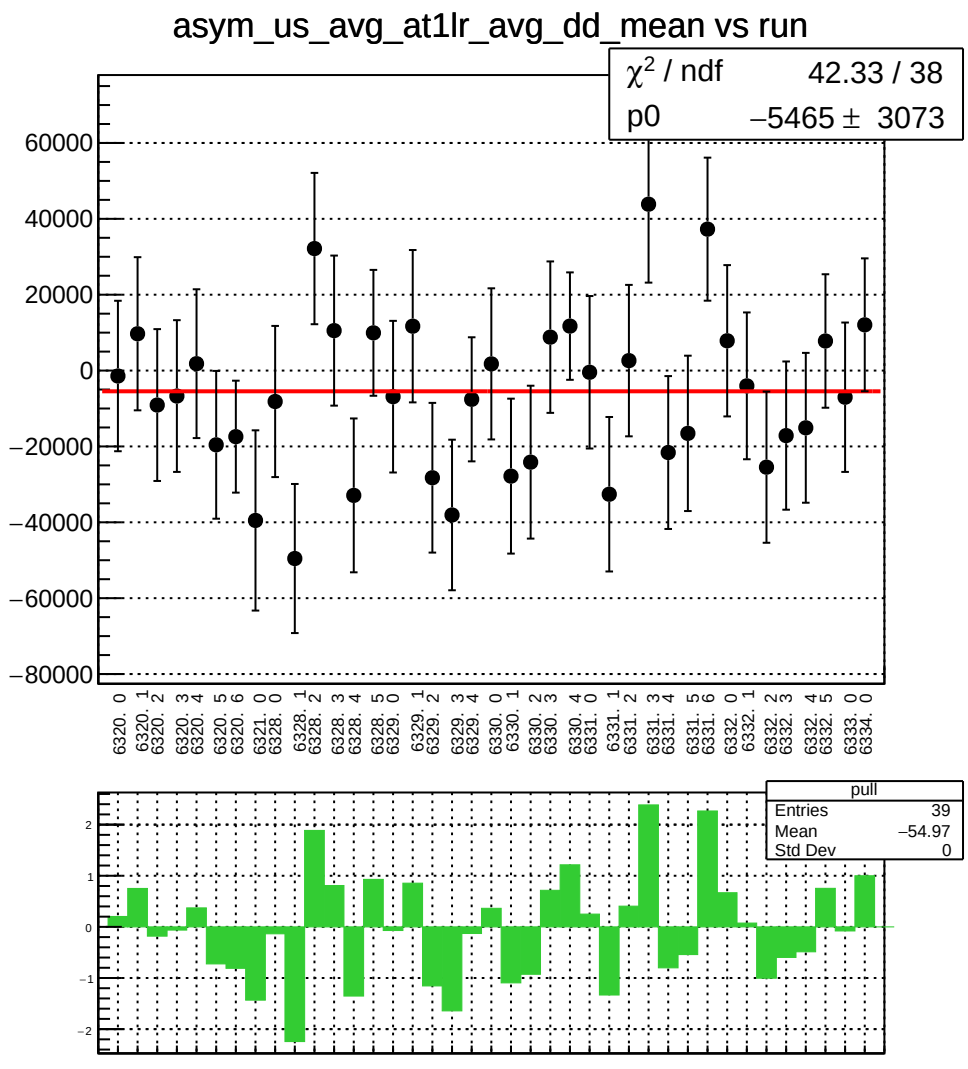

pull1D
Entries 39
Mean −0.02826
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

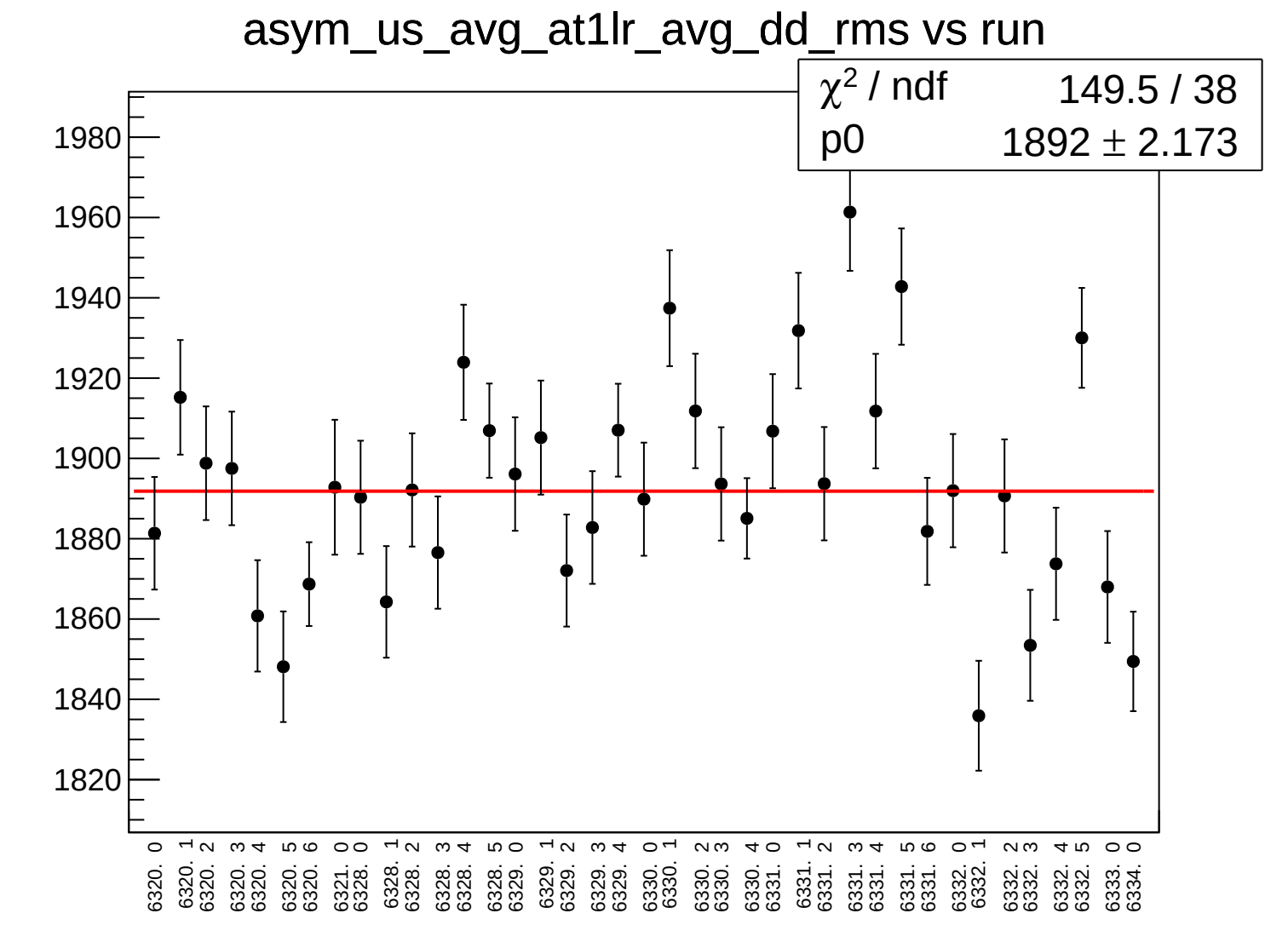

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 47.89 / 38
p0 1729 ± 1.985
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

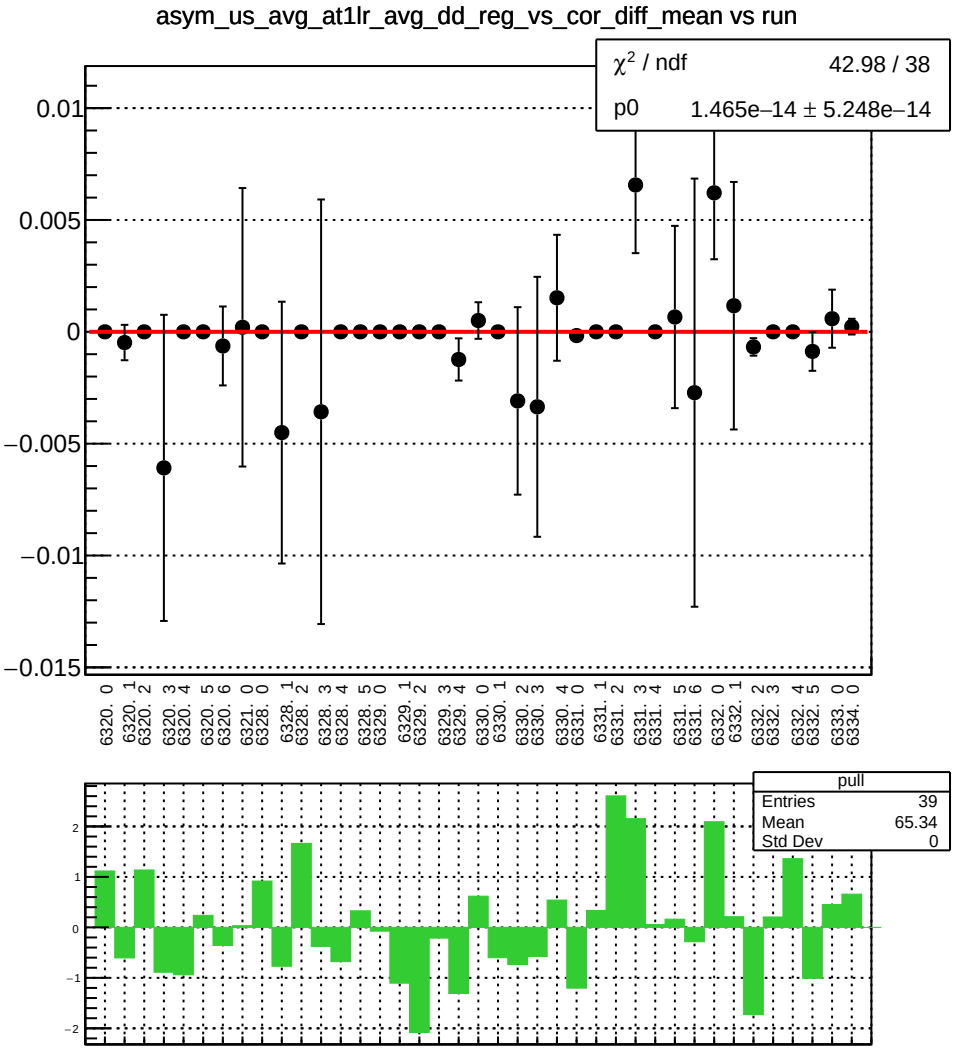

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.75 / 38
p0 1037 ± 1257
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

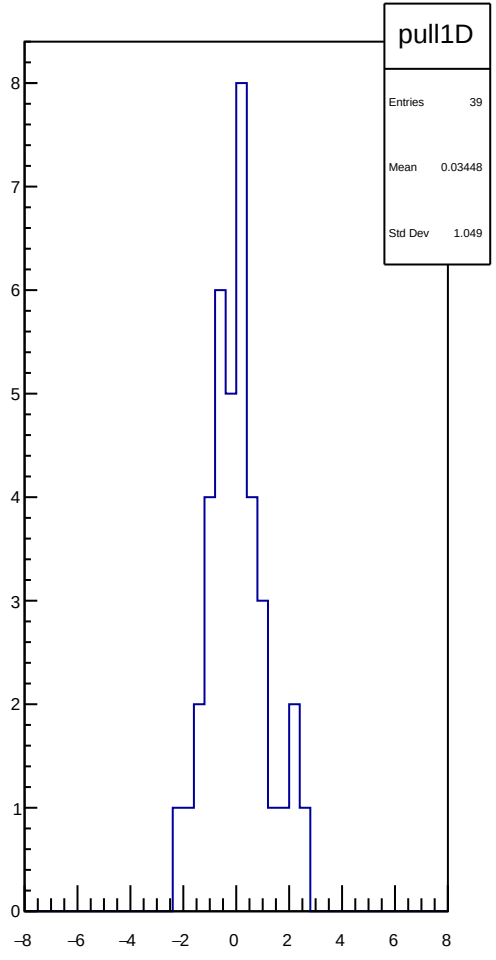

pull1D
Entries 39
Mean −0.01334
Std Dev 0.7802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

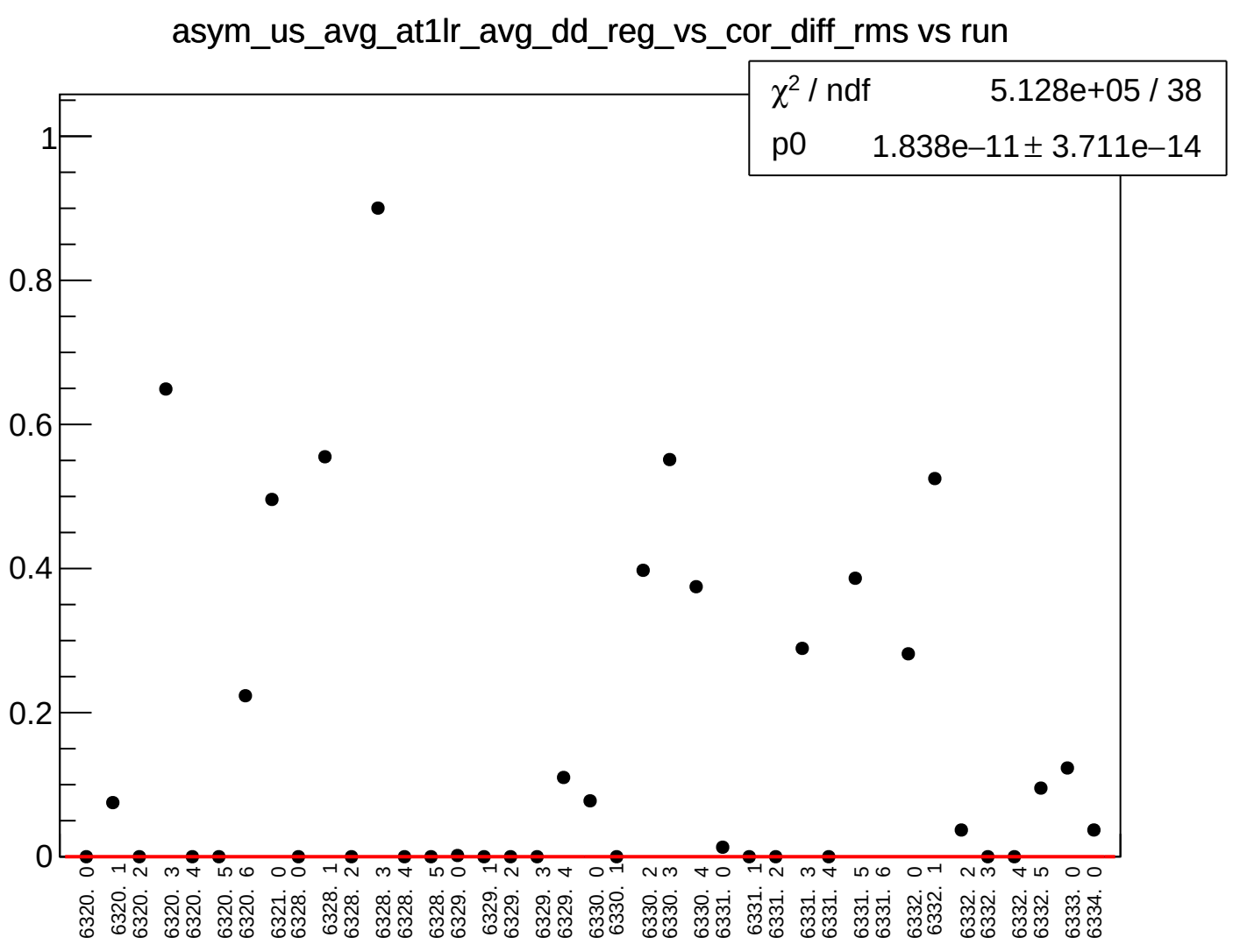

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5194 / 38
p0 771.5 ± 0.8891
950
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

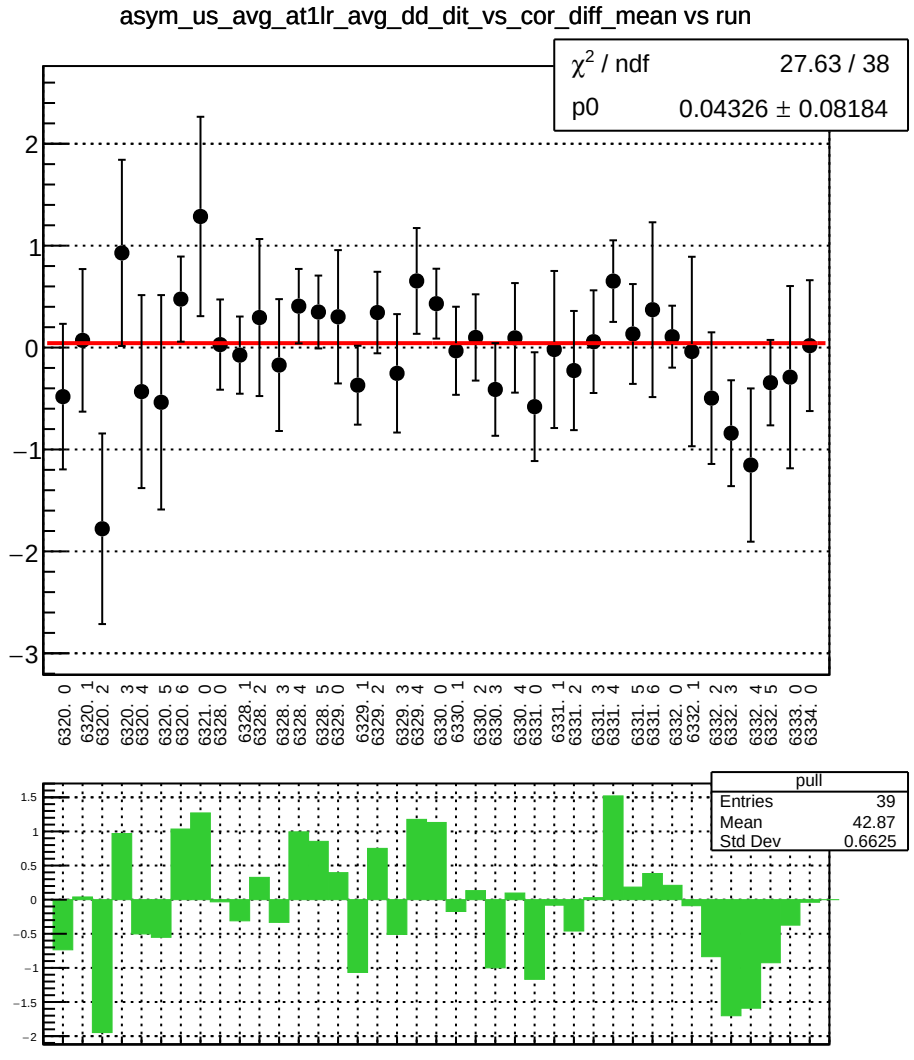

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.33 / 38
p0 −5465 ± 3073
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −54.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02316
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

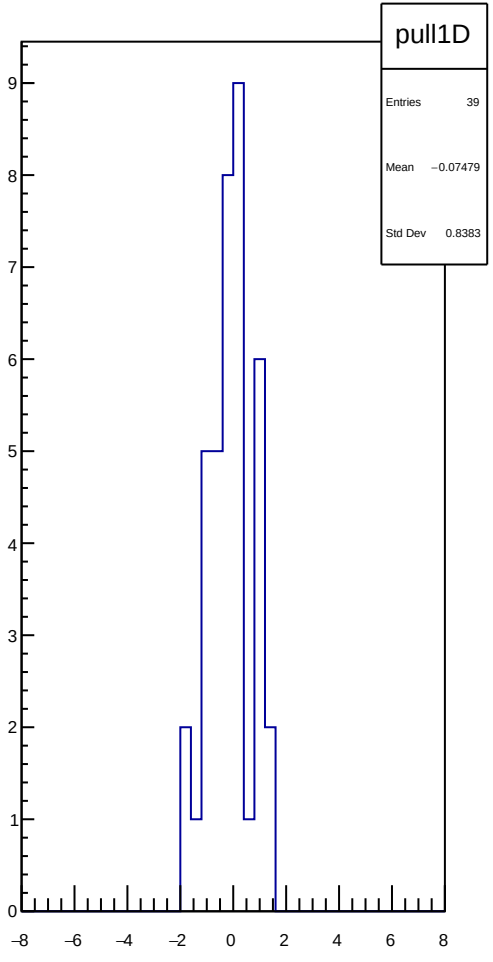

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 149.5 / 38
p0 1892 ± 2.173
1980
1960
1940
1920
1900
1880
1860
1840
1820
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

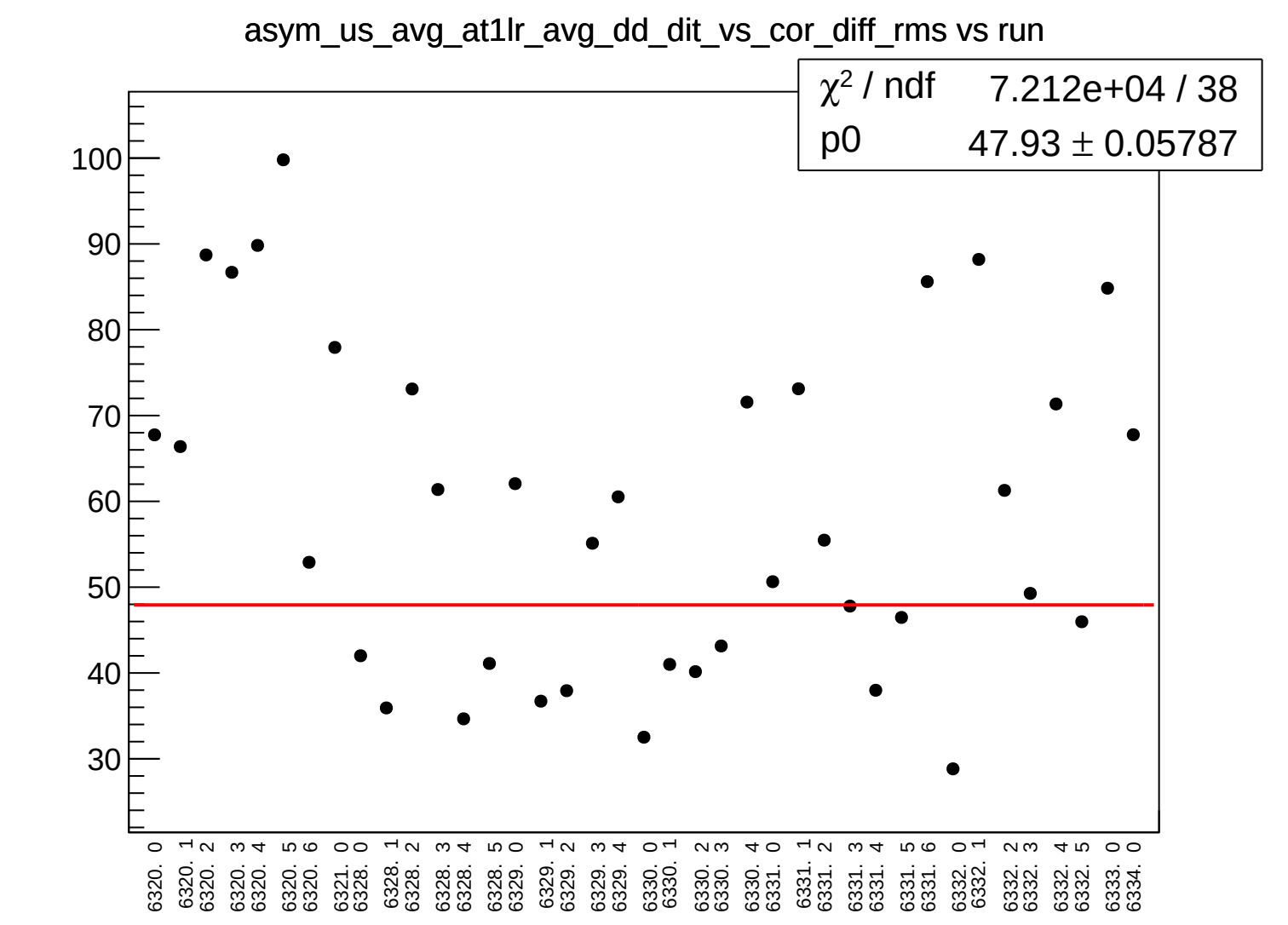

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42.98 / 38
p0 1.465e−14 ± 5.248e−14
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 65.34
Std Dev 0
2
1
0
−1
−2

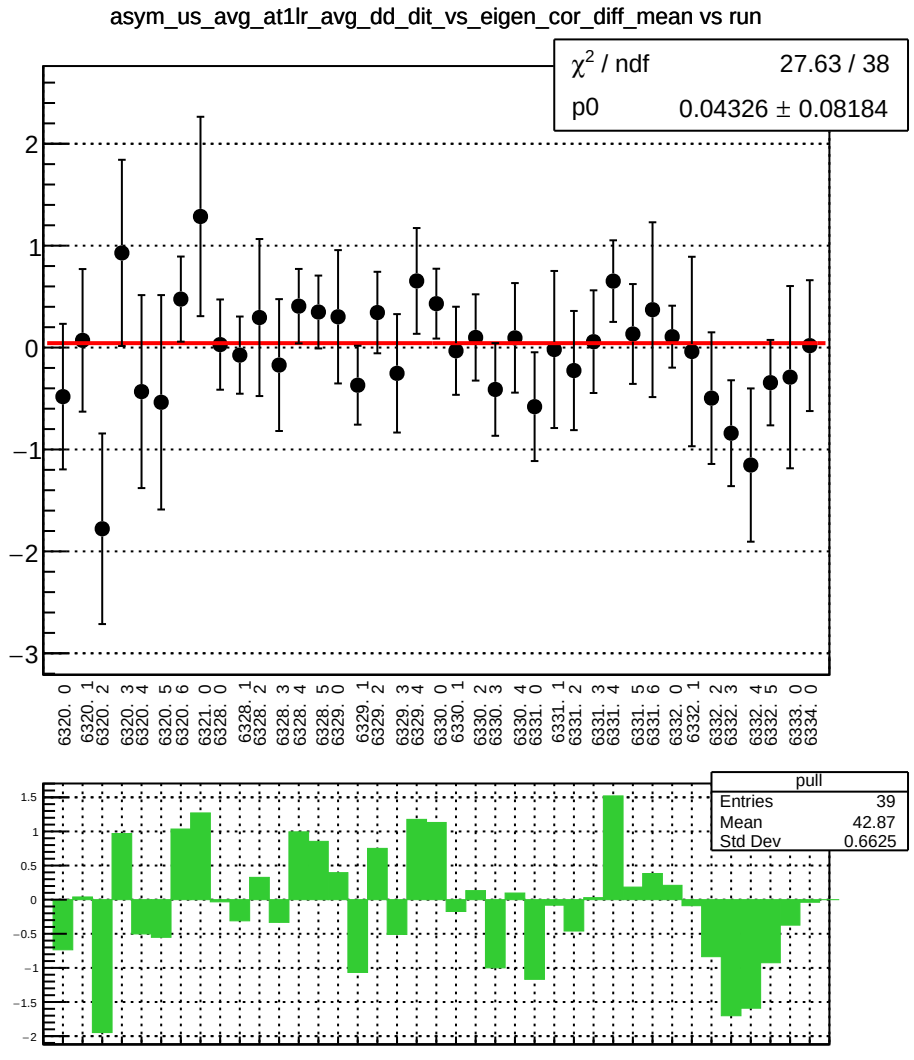

pull1D
Entries 39
Mean 0.03448
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

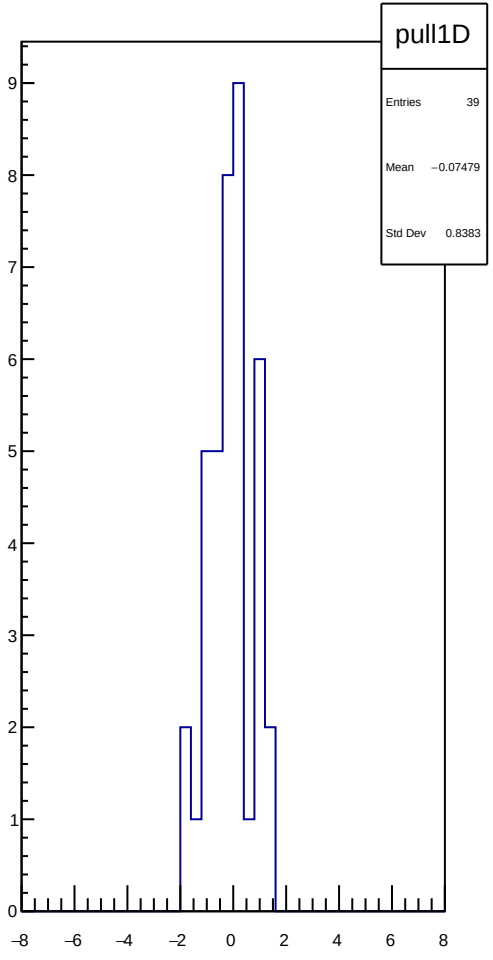

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.128e+05 / 38
p0 1.838e−11 ± 3.711e−14
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

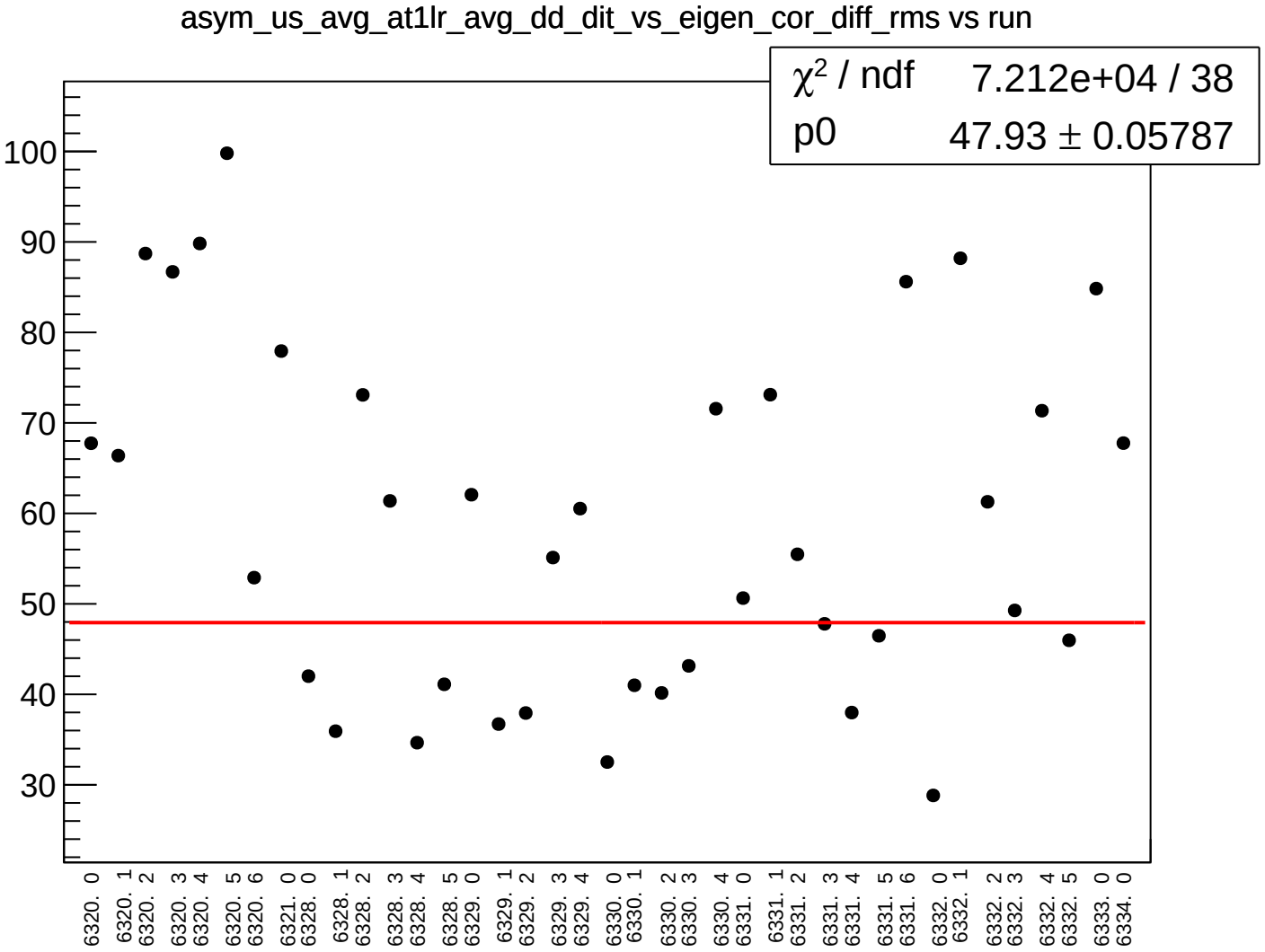

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.63 / 38
p0 0.04326 ± 0.08184
pull
Entries 39
Mean 42.87
Std Dev 0.6625

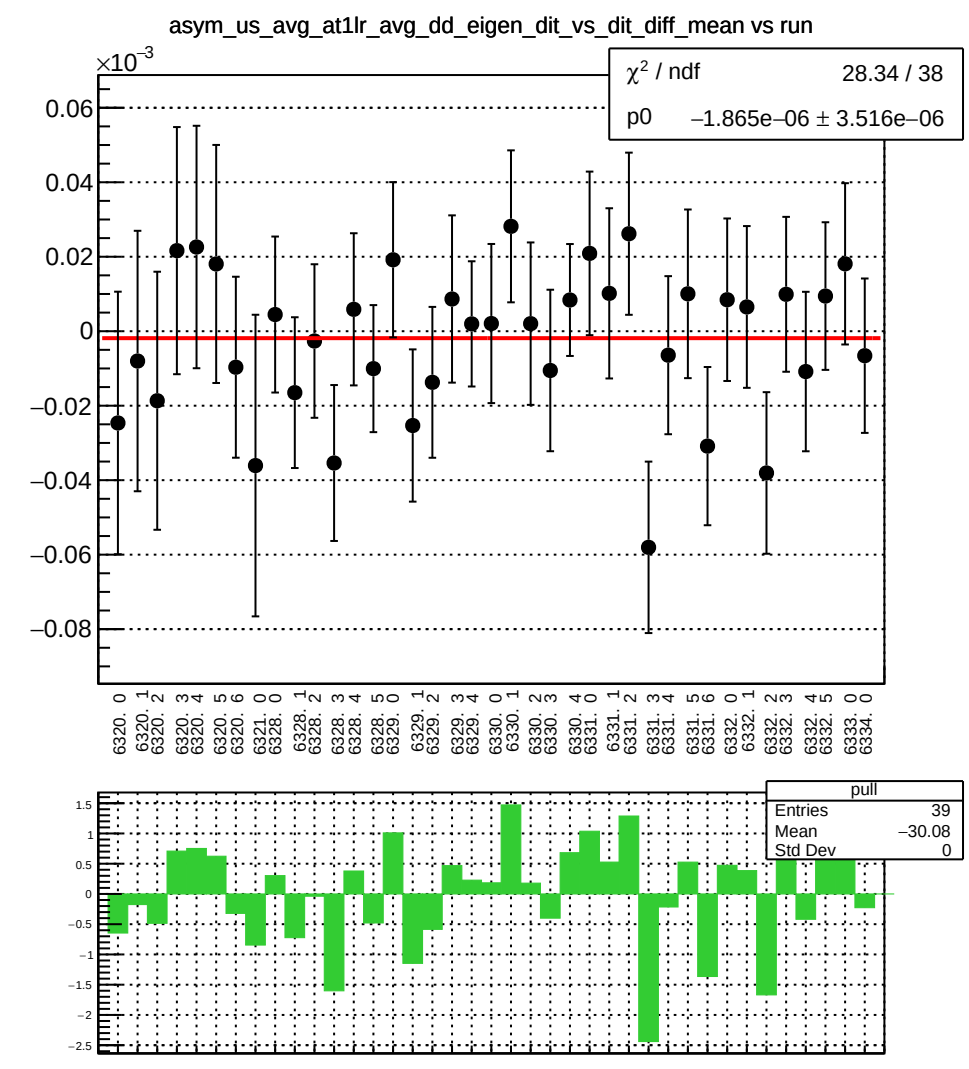

pull1D
Entries 39
Mean −0.07479
Std Dev 0.8383

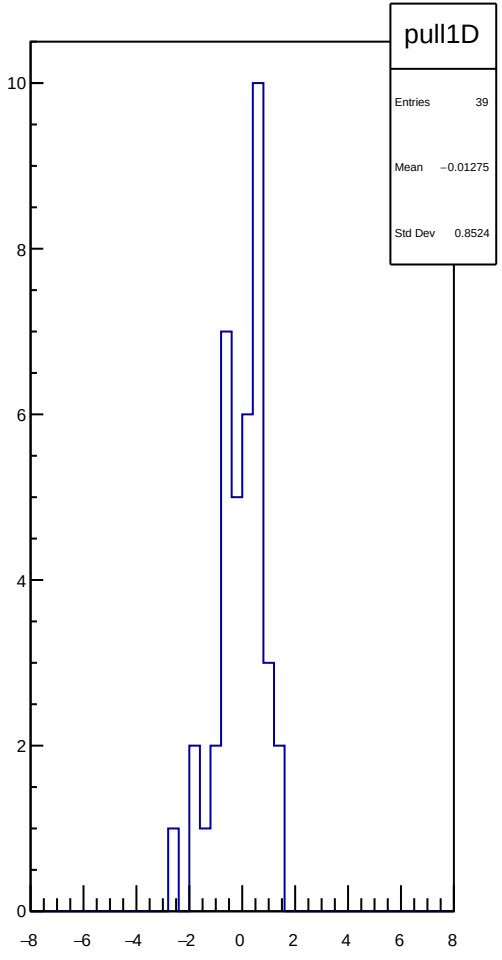

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 38
p0 47.93 ± 0.05787
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

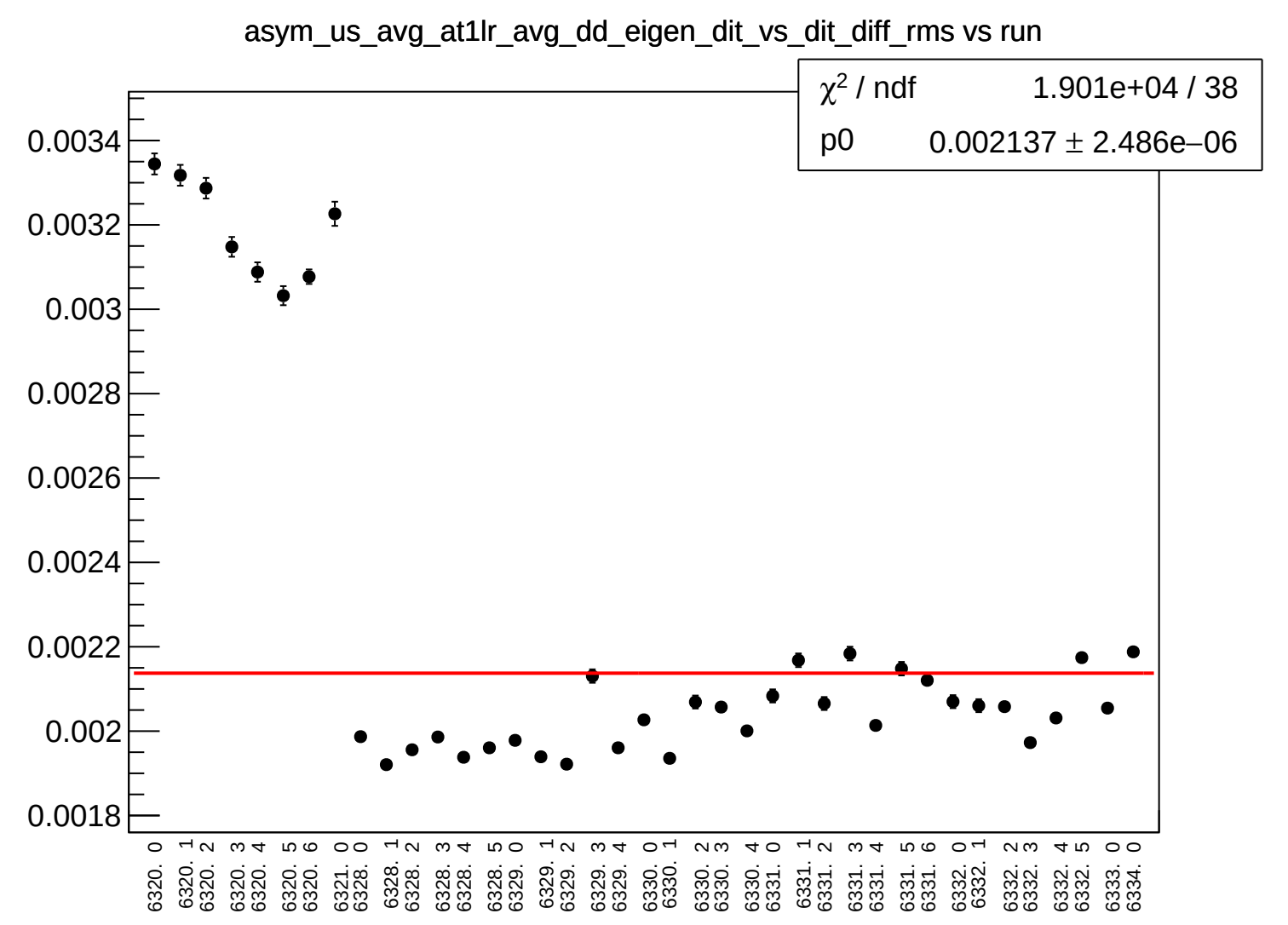

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.63 / 38
p0 0.04326 ± 0.08184
pull
Entries 39
Mean 42.87
Std Dev 0.6625

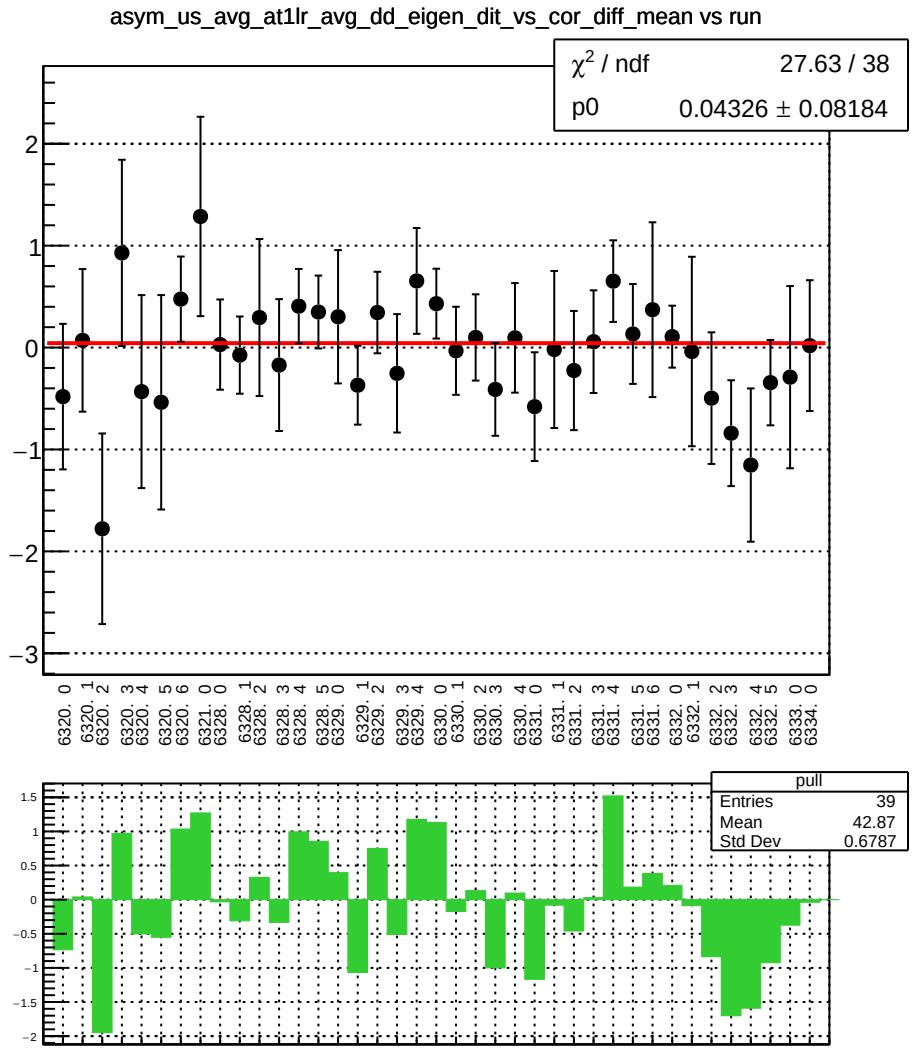

pull1D
Entries 39
Mean −0.07479
Std Dev 0.8383

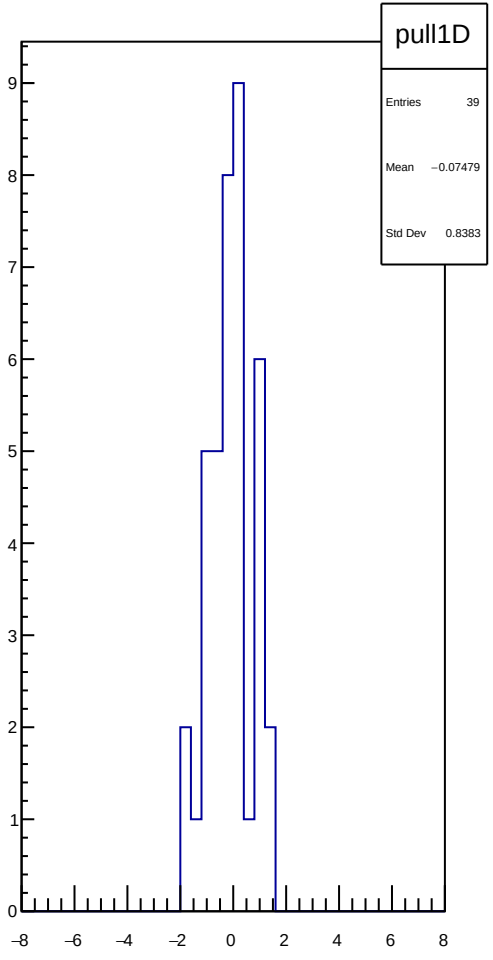

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 38
p0 47.93 ± 0.05787
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

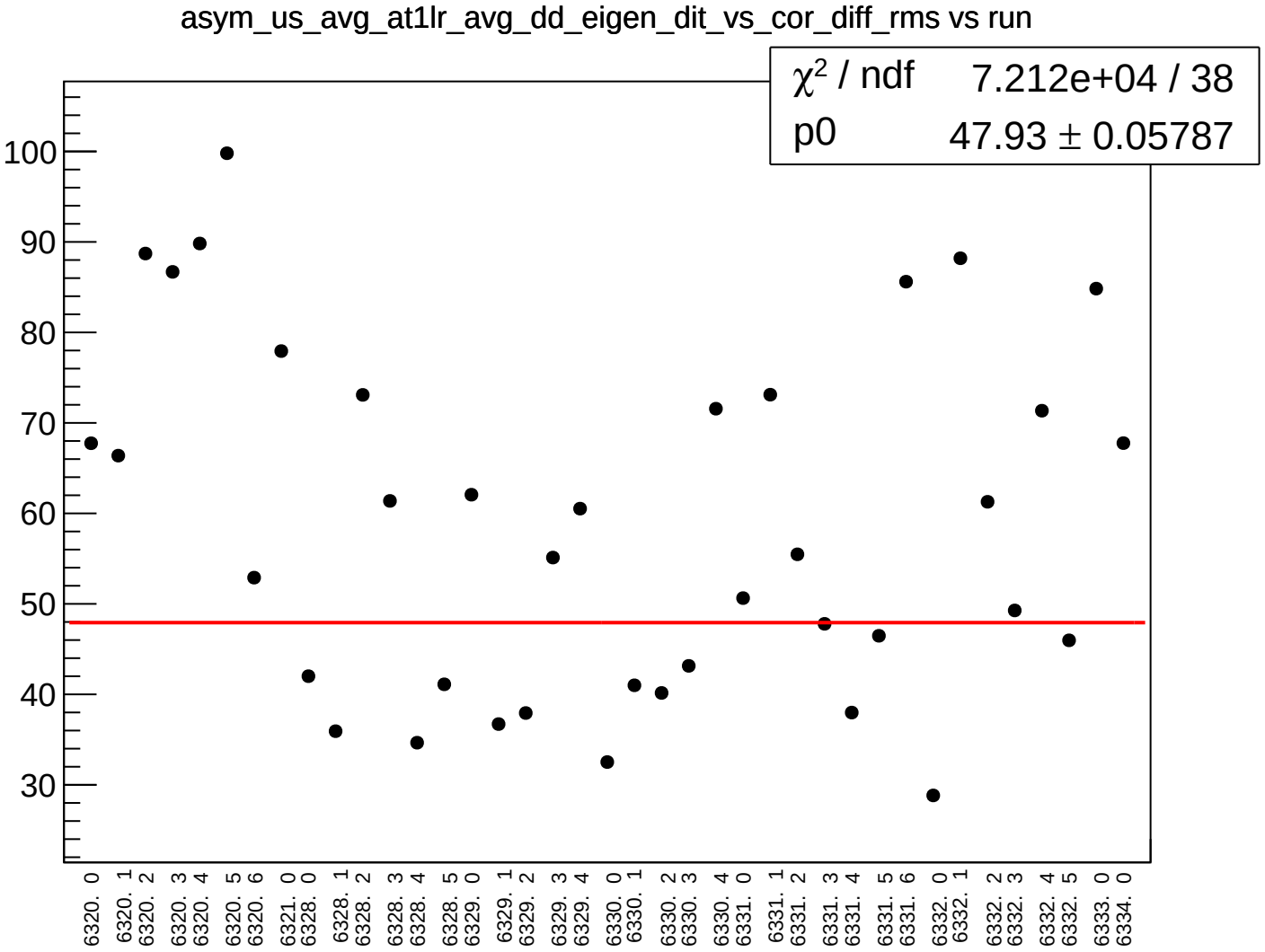

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 28.34 / 38
p0 −1.865e−06 ± 3.516e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −30.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

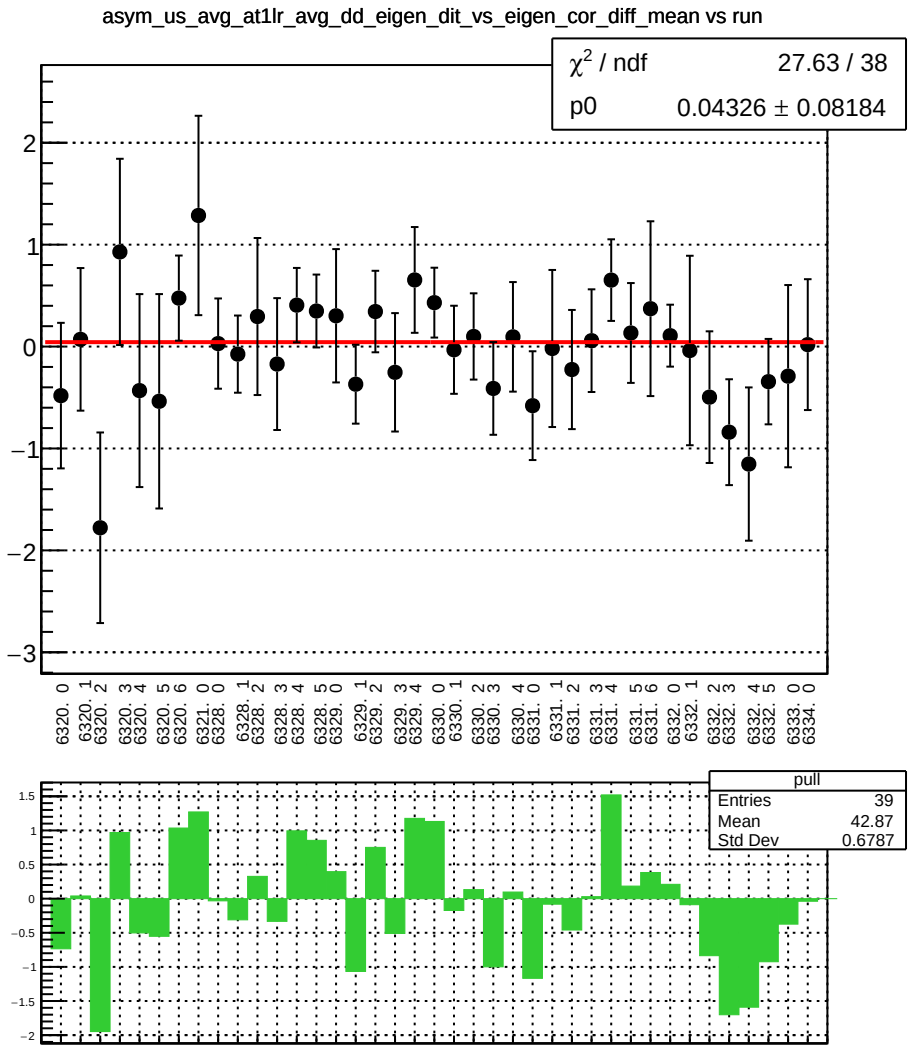

pull1D
Entries 39
Mean −0.01275
Std Dev 0.8524
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

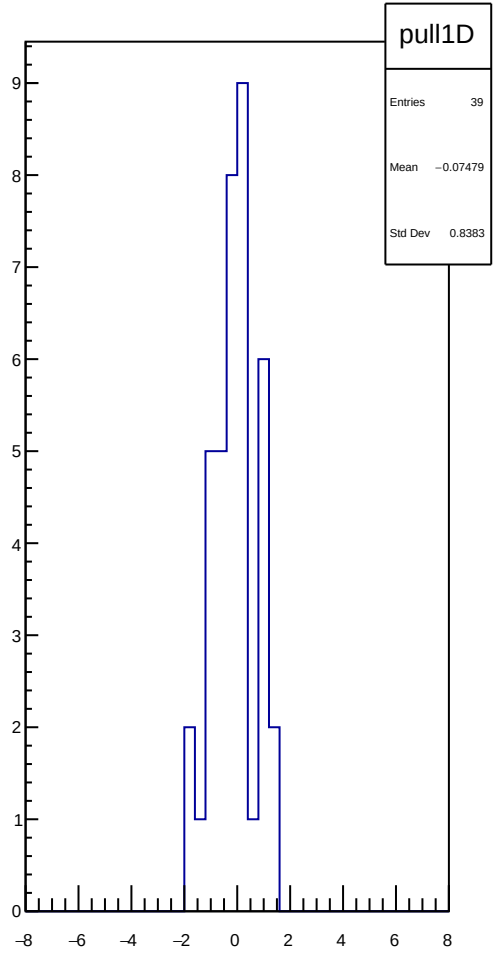

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.901e+04 / 38
p0 0.002137 ± 2.486e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

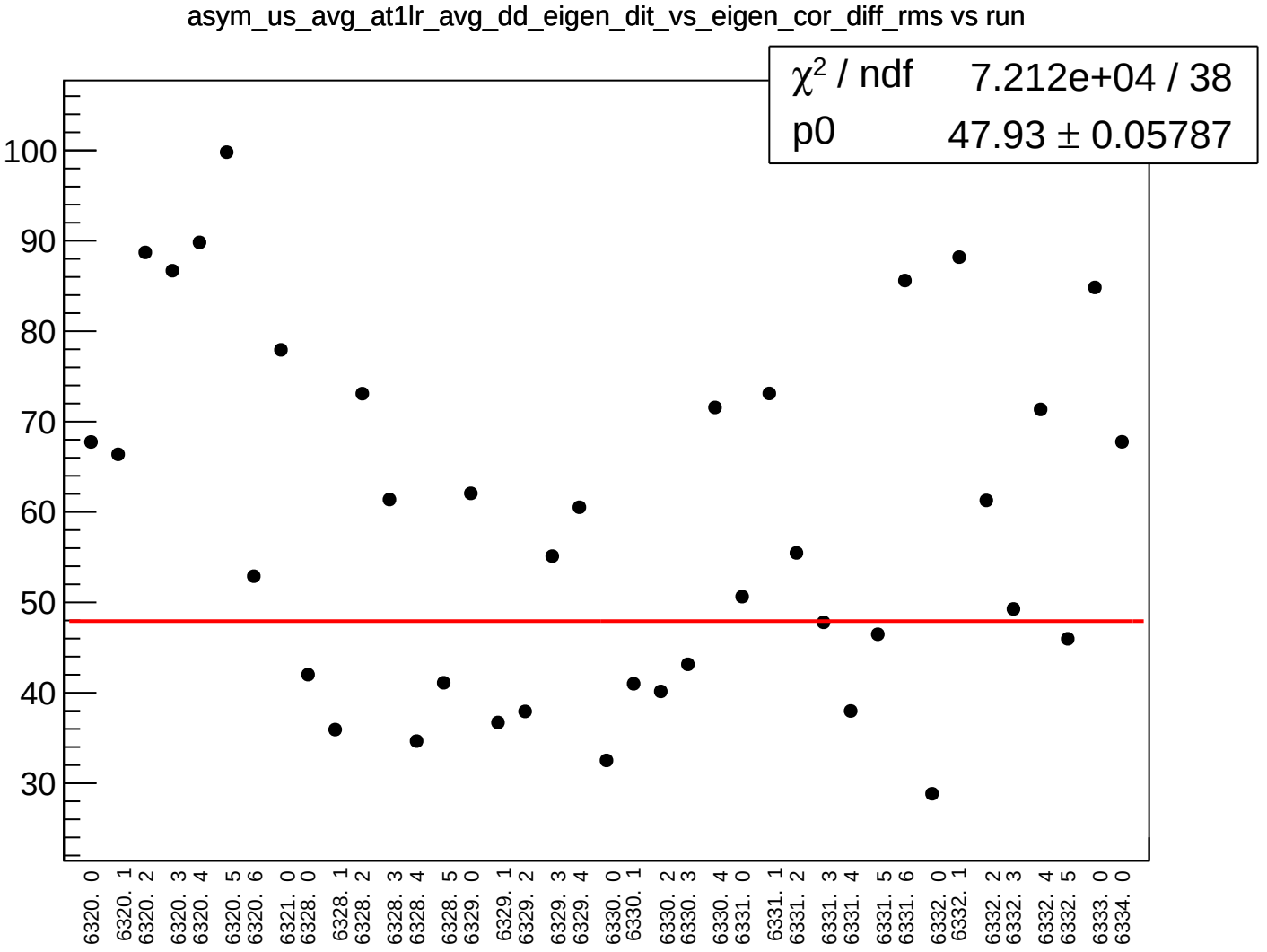

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.63 / 38
p0 0.04326 ± 0.08184
pull
Entries 39
Mean 42.87
Std Dev 0.6787

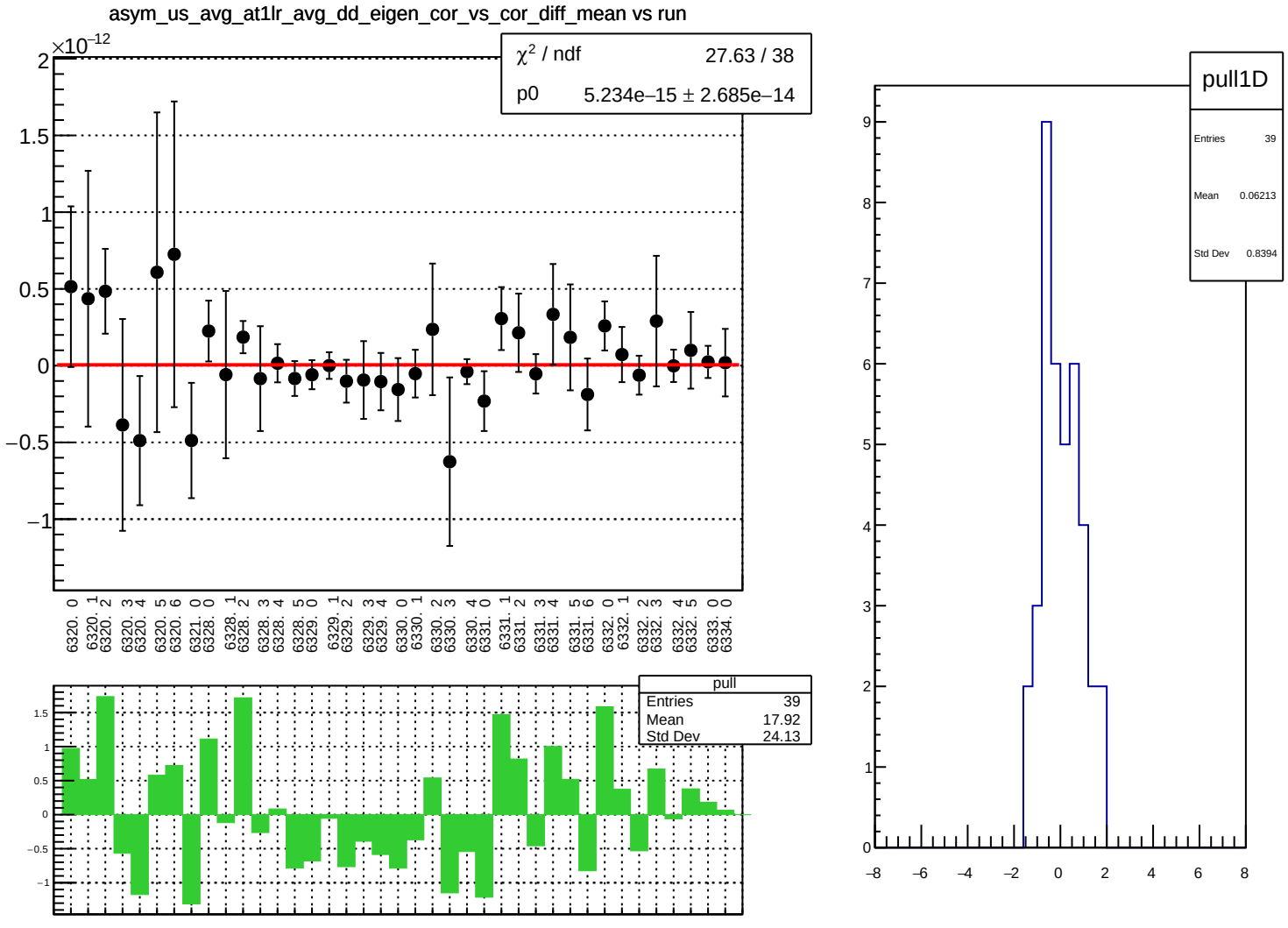

pull1D
Entries 39
Mean −0.07479
Std Dev 0.8383

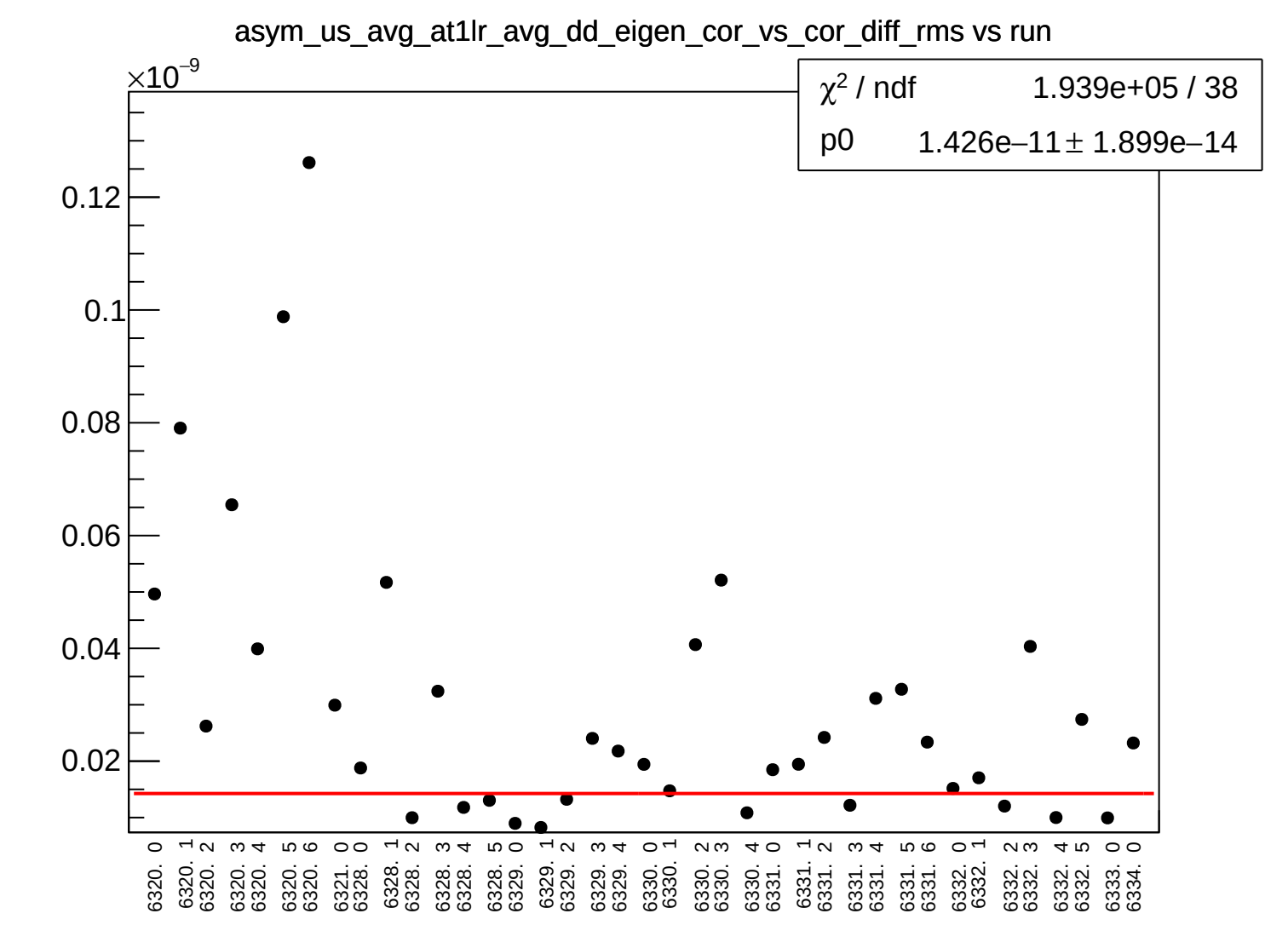

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 38
p0 47.93 ± 0.05787
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

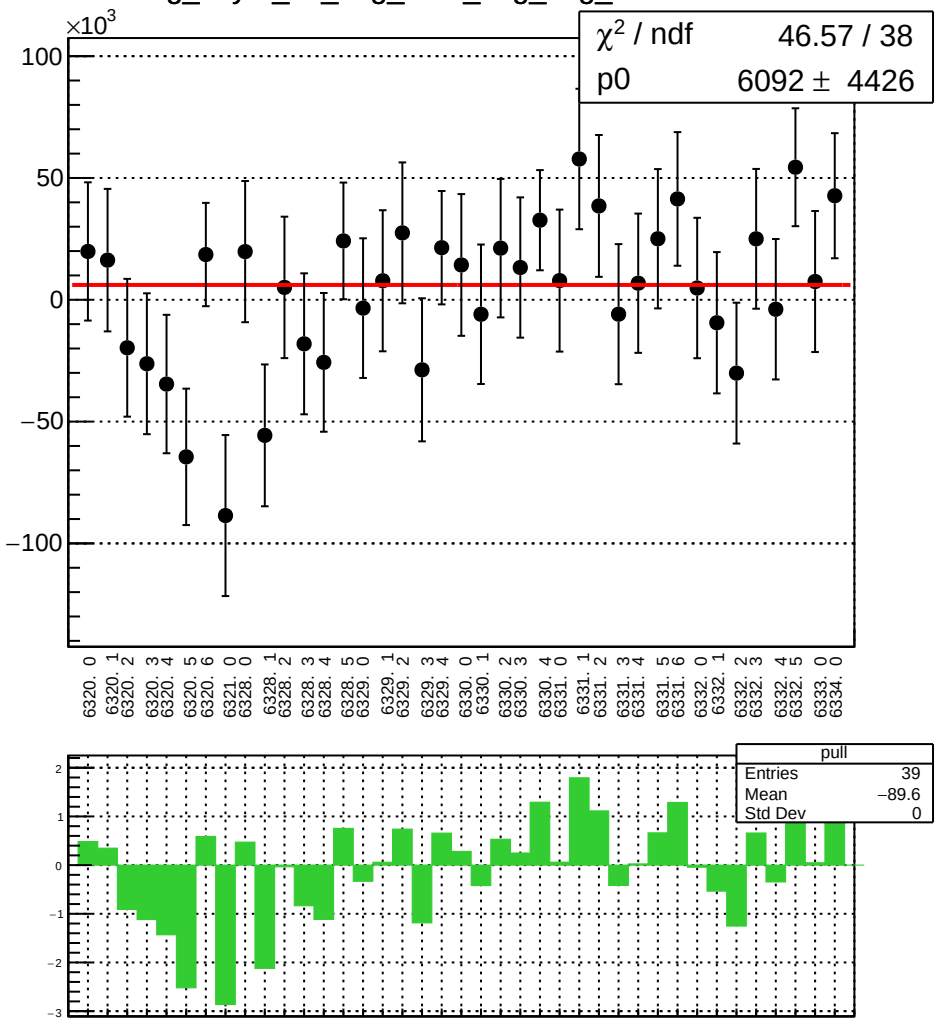

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.63 / 38
p0 0.04326 ± 0.08184
pull
Entries 39
Mean 42.87
Std Dev 0.6787

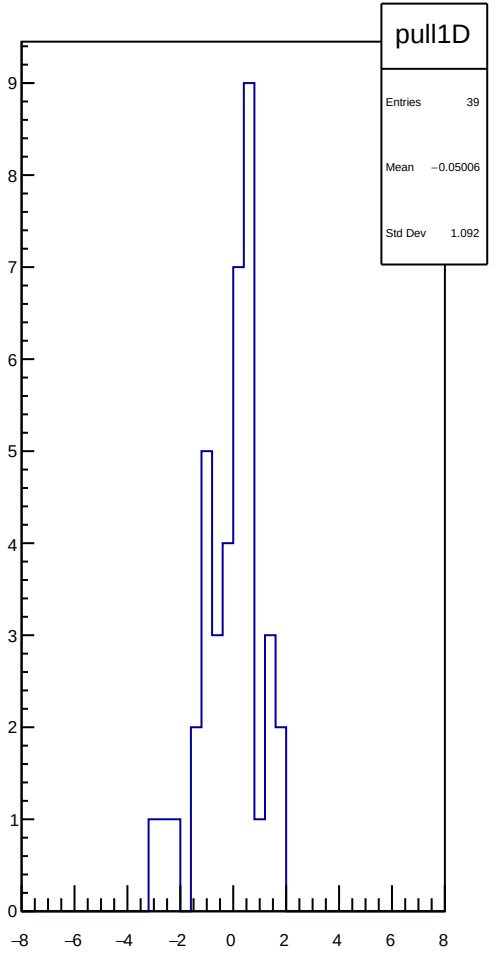

pull1D
Entries 39
Mean −0.07479
Std Dev 0.8383

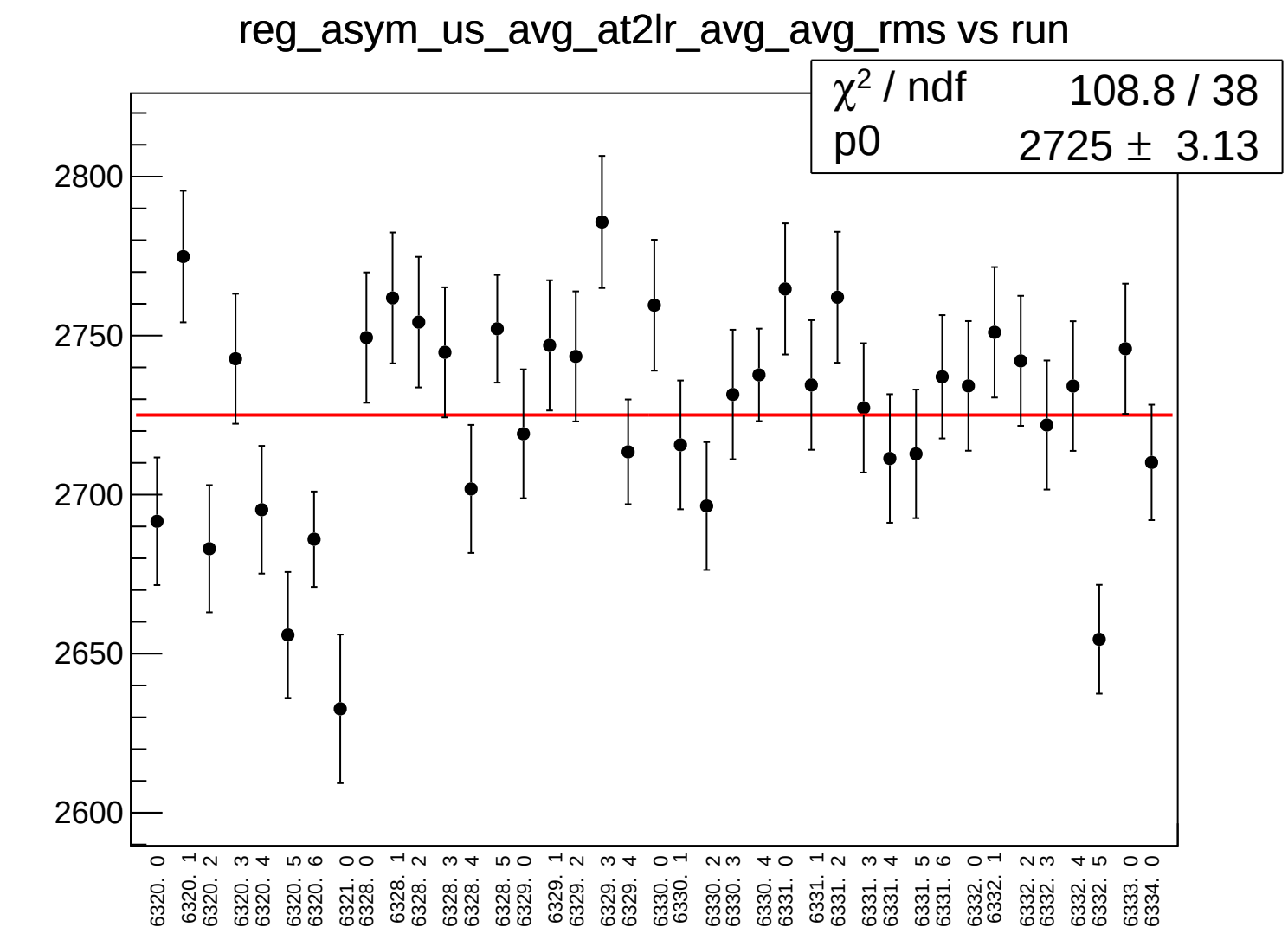

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 38
p0 47.93 ± 0.05787
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

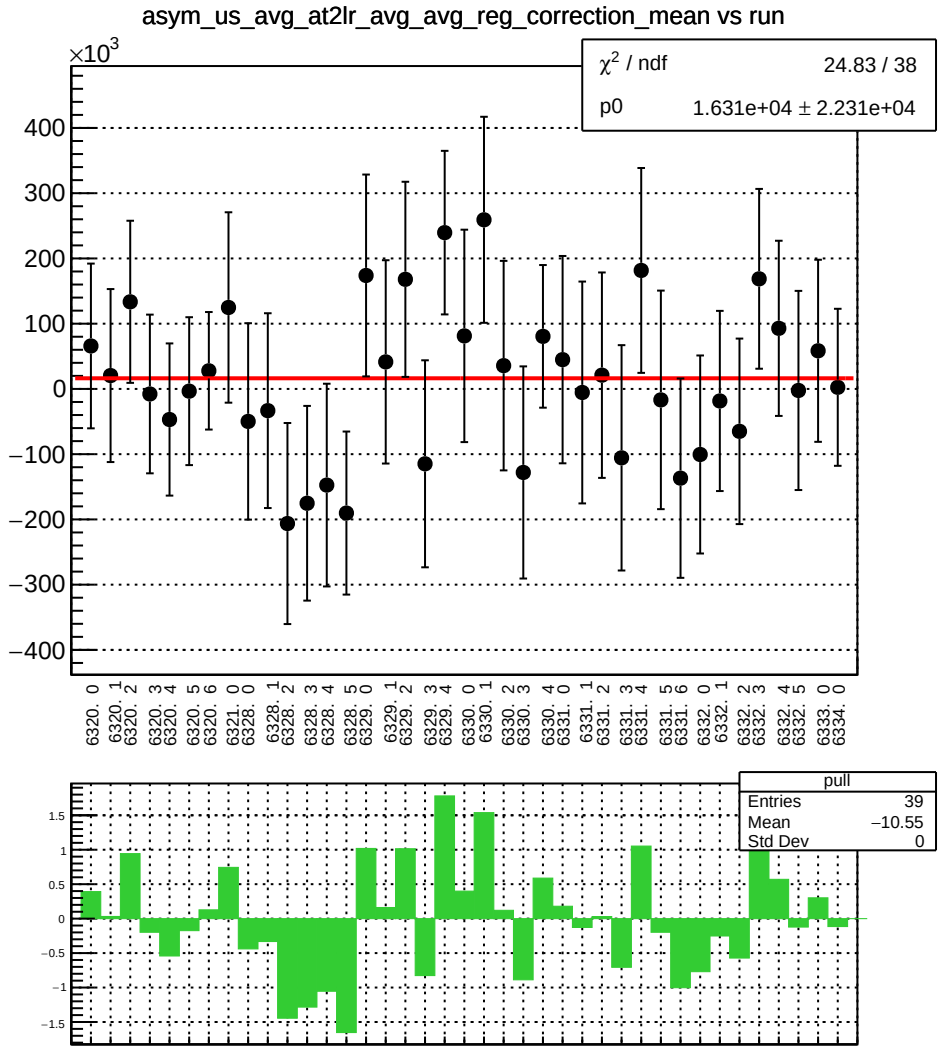

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.63 / 38
p0 5.234e−15 ± 2.685e−14
pull
Entries 39
Mean 17.92
Std Dev 24.13
pull1D
Entries 39
Mean 0.06213
Std Dev 0.8394

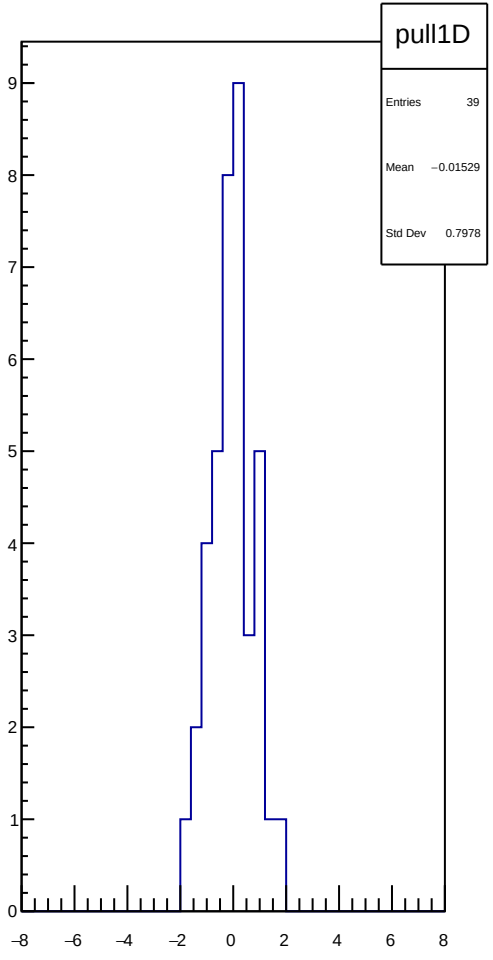

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.939e+05 / 38
p0 1.426e−11 ± 1.899e−14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

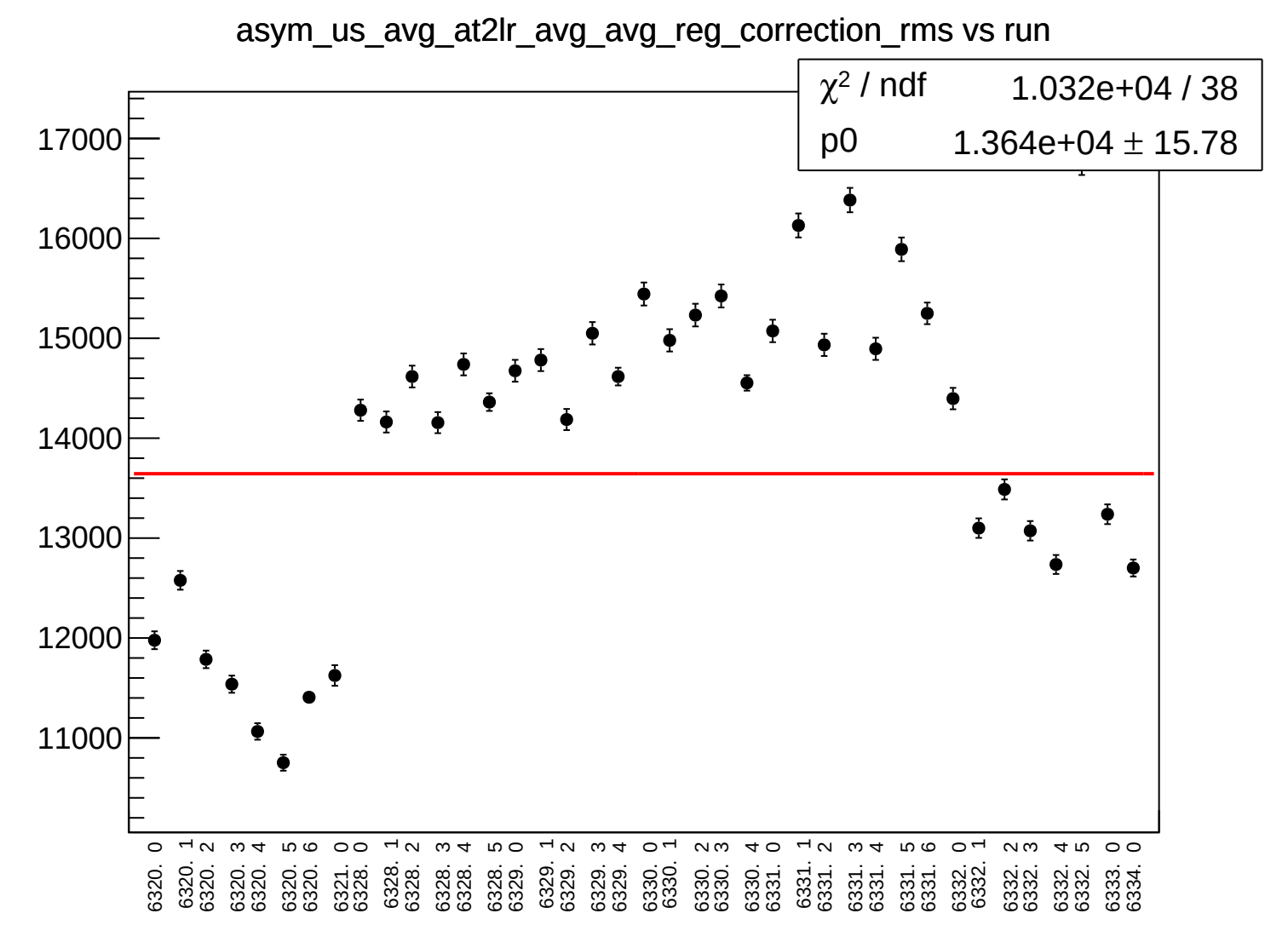

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.57 / 38
p0 6092 ± 4426
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −89.6
Std Dev 0
2
1
0
−1
−2
−3

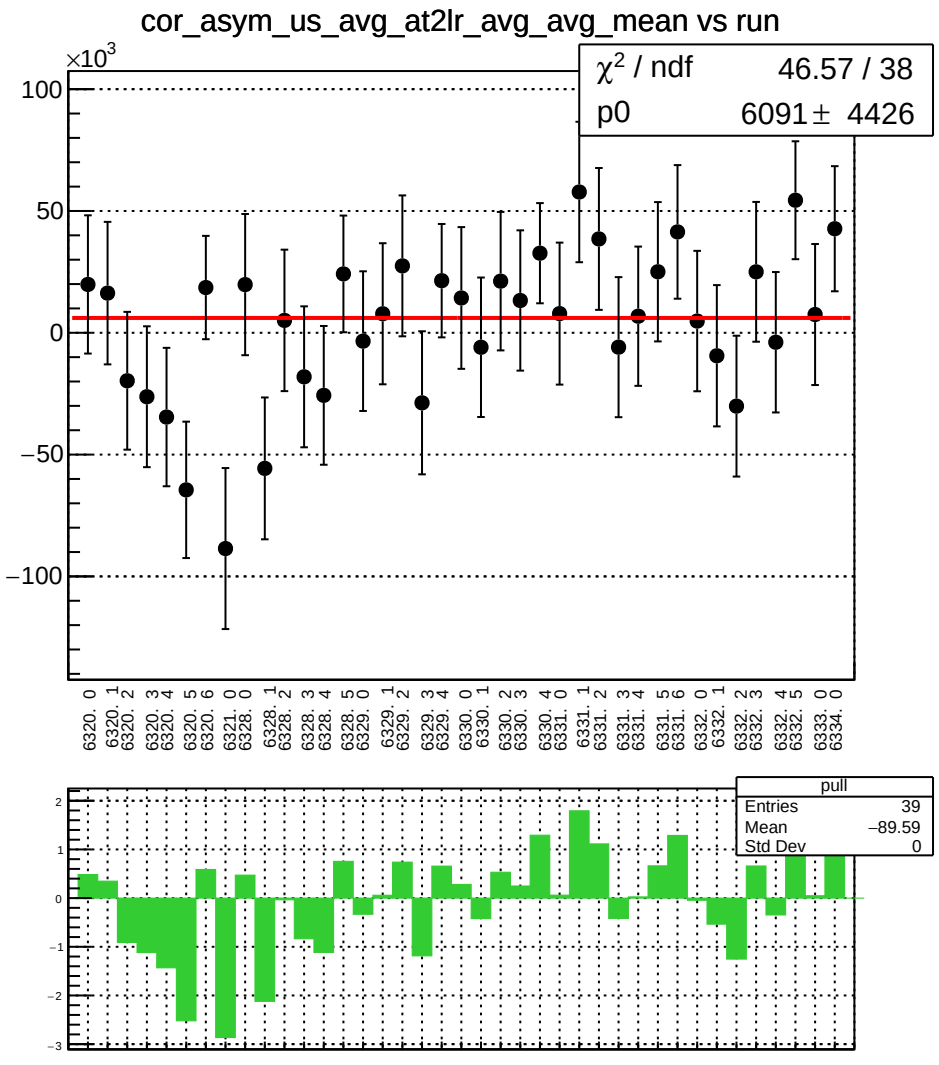

pull1D
Entries 39
Mean −0.05006
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

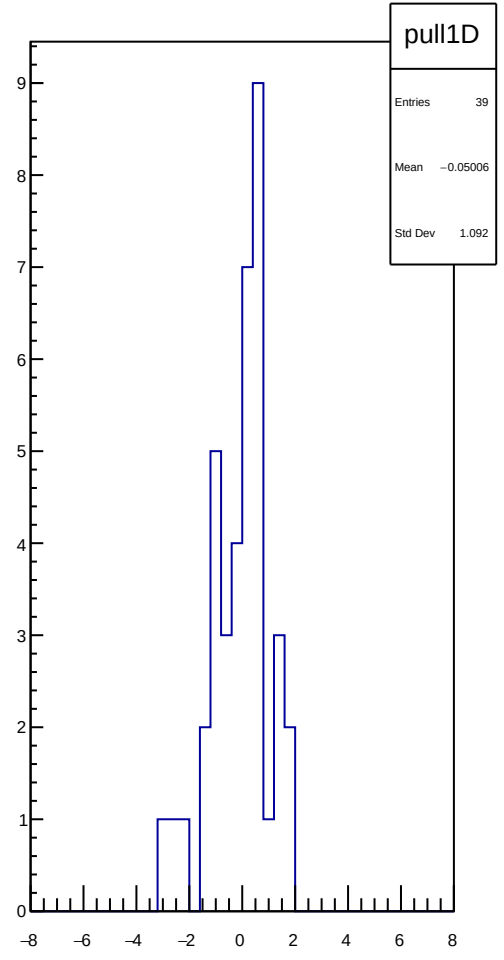

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 108.8 / 38
p0 2725 ± 3.13
2800
2750
2700
2650
2600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

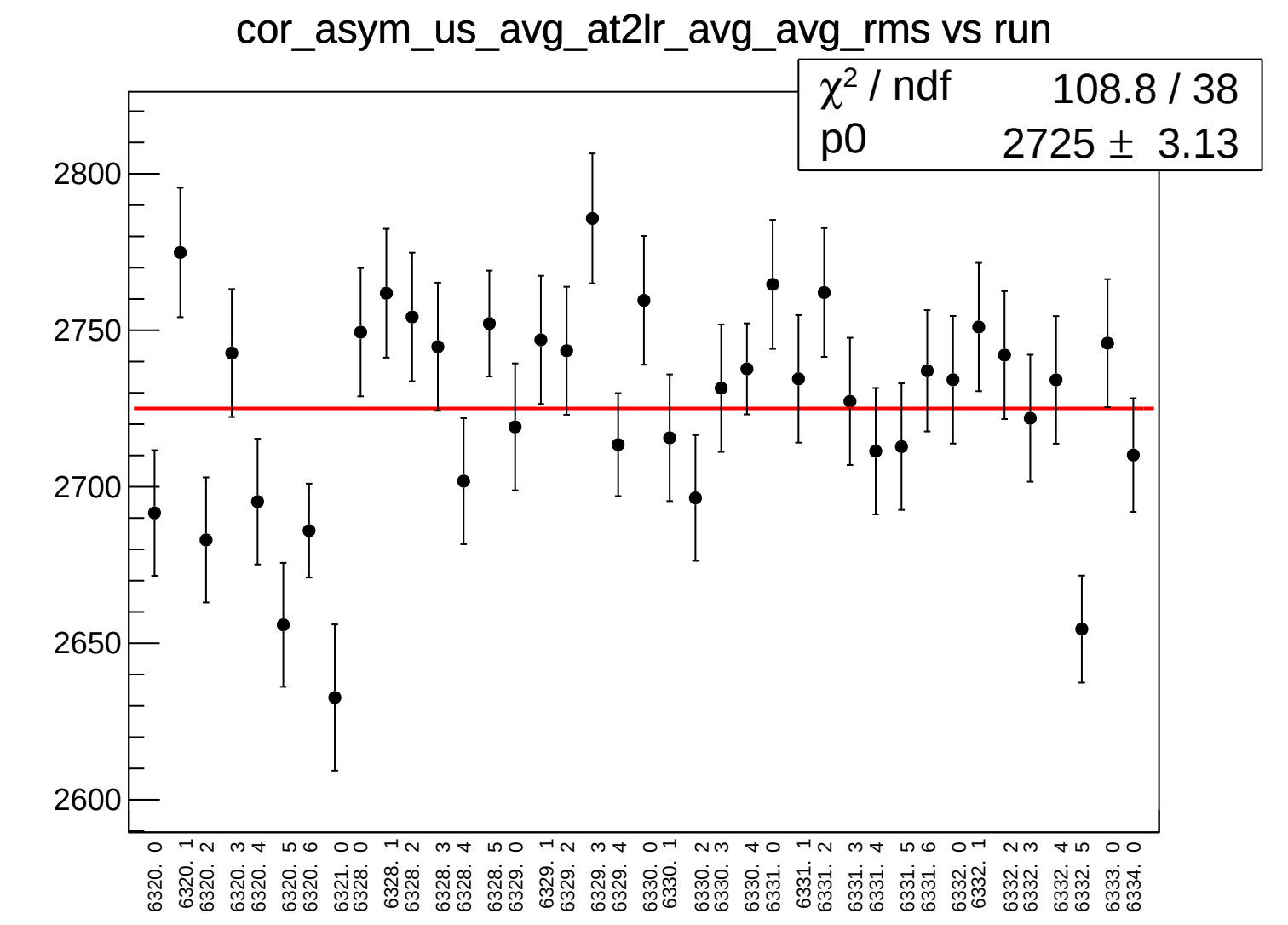

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.631e+04 ± 2.231e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

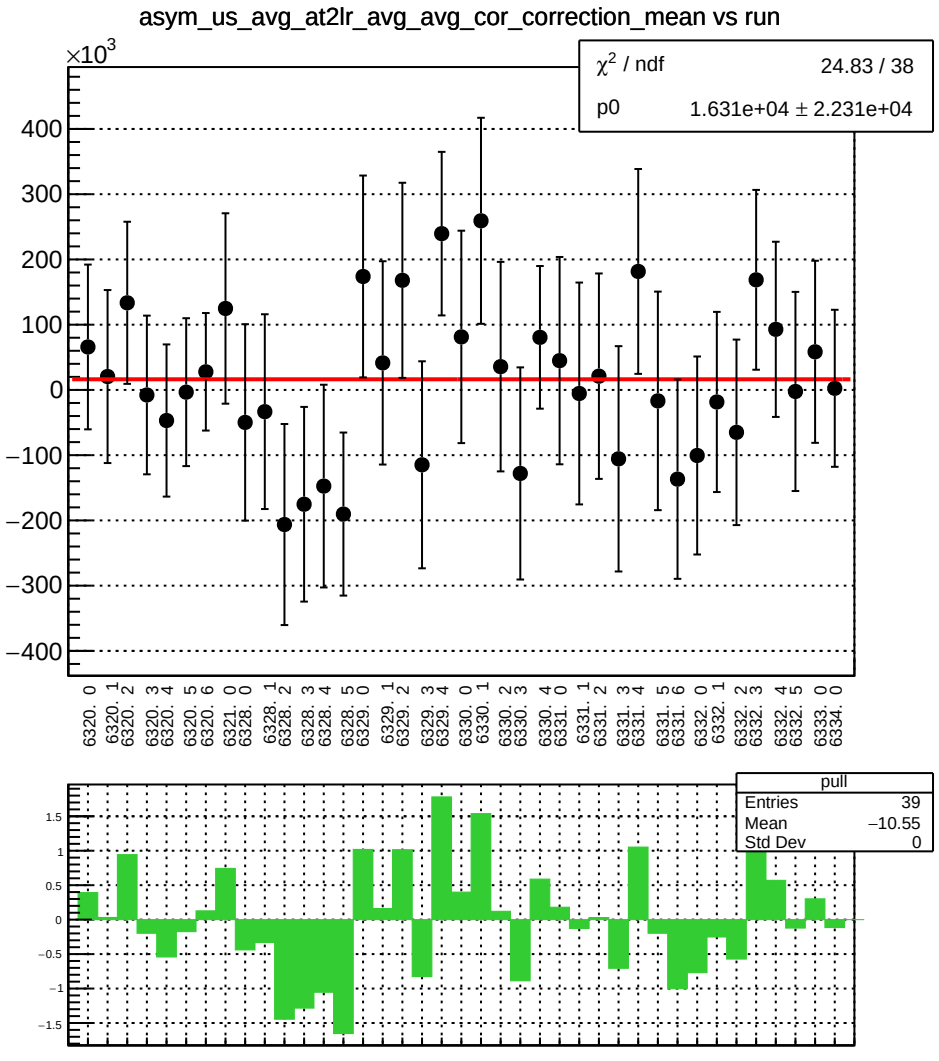

pull1D
Entries 39
Mean −0.01529
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

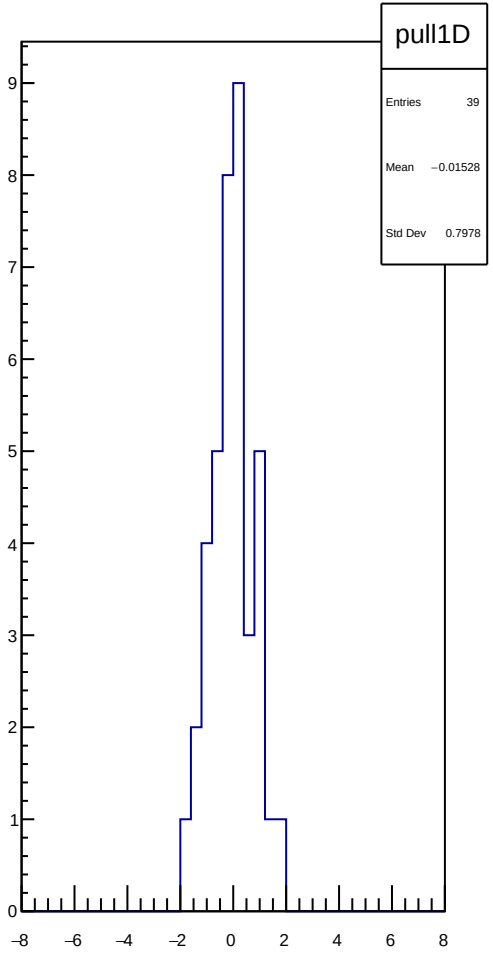

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.032e+04 / 38
p0 1.364e+04 ± 15.78
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

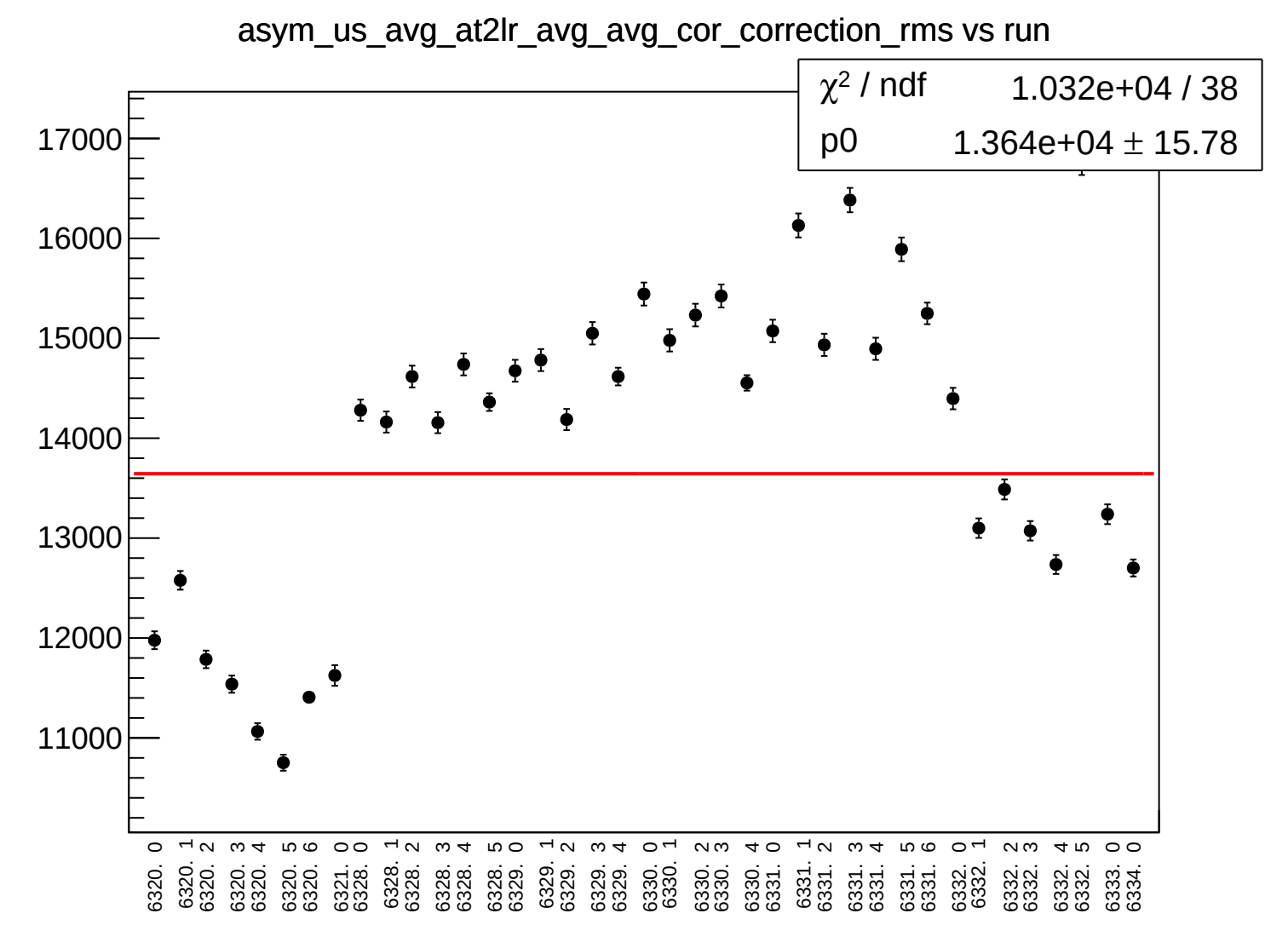

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 46.57 / 38
p0 6091 ± 4426
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −89.59
Std Dev 0
2
1
0
−1
−2
−3

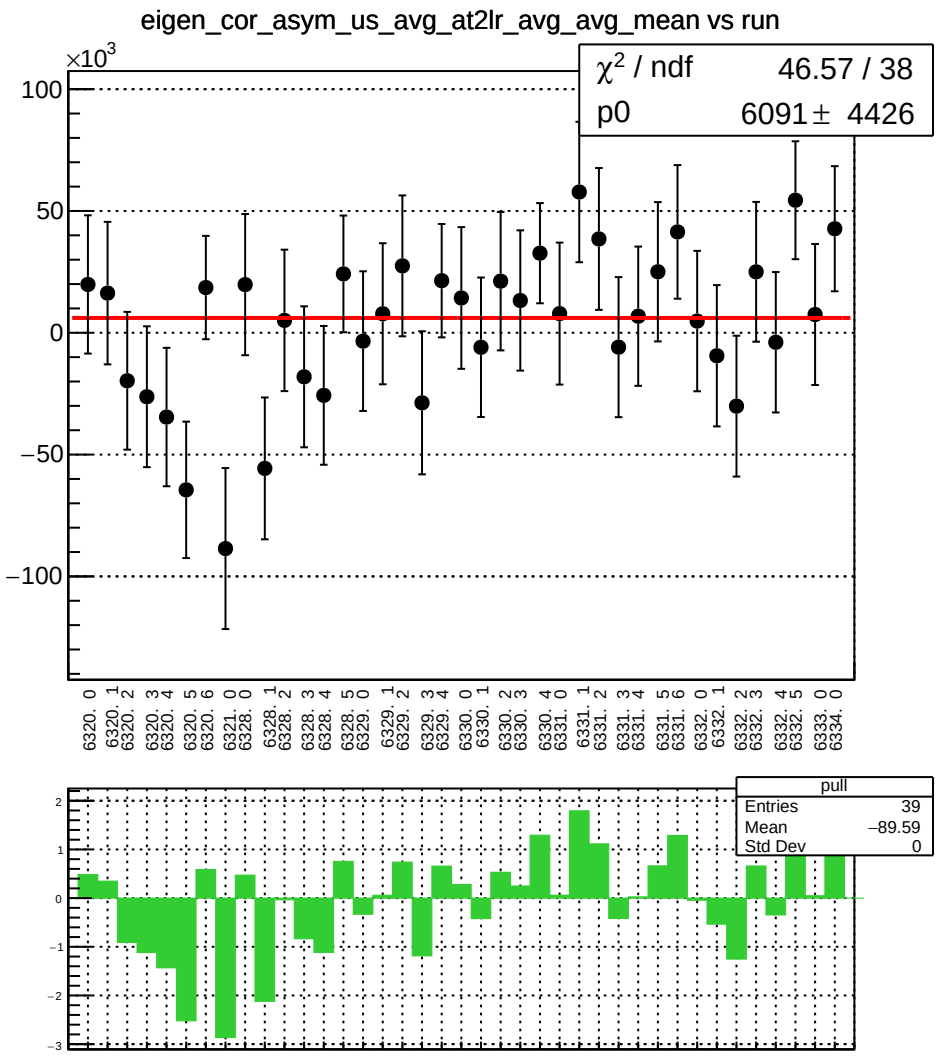

pull1D
Entries 39
Mean −0.05006
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

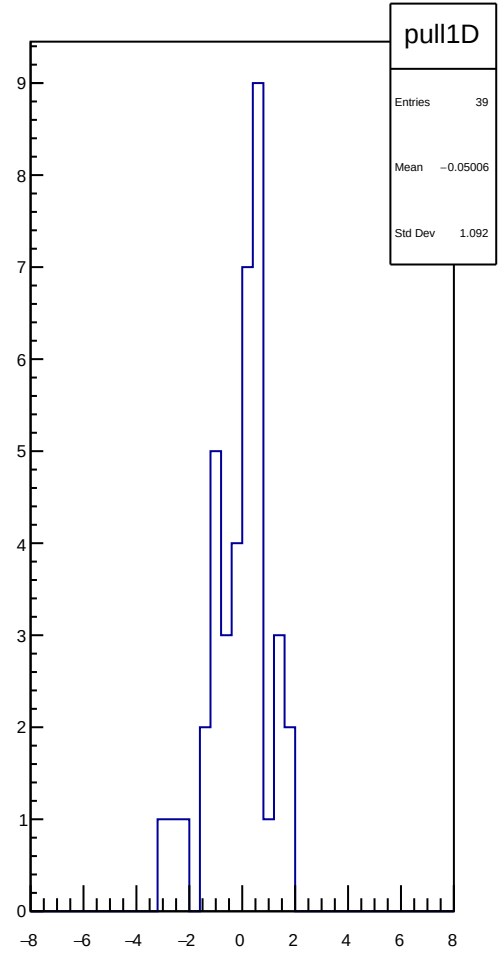

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 108.8 / 38
p0 2725 ± 3.13
2800
2750
2700
2650
2600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

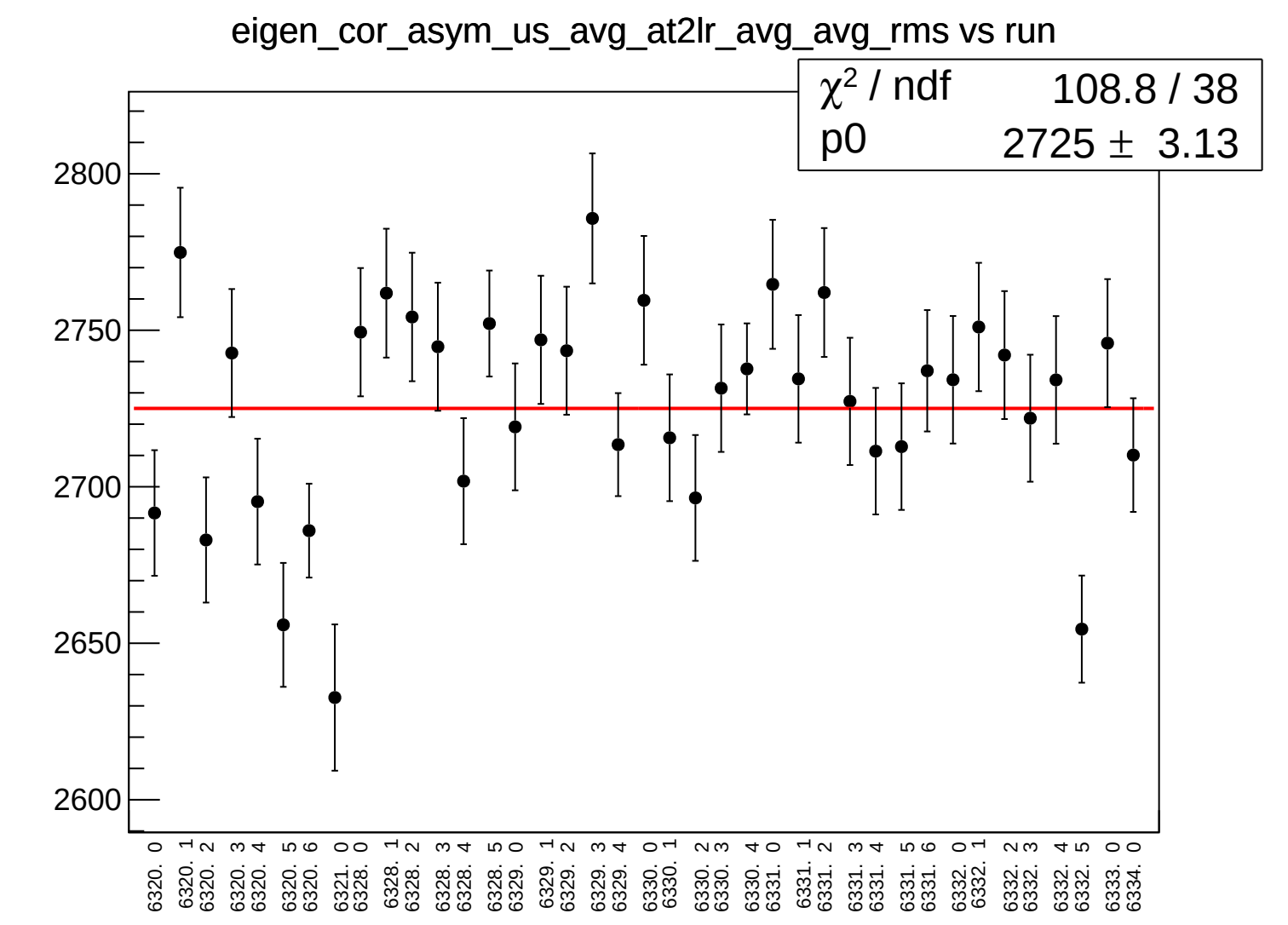

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.631e+04 ± 2.231e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

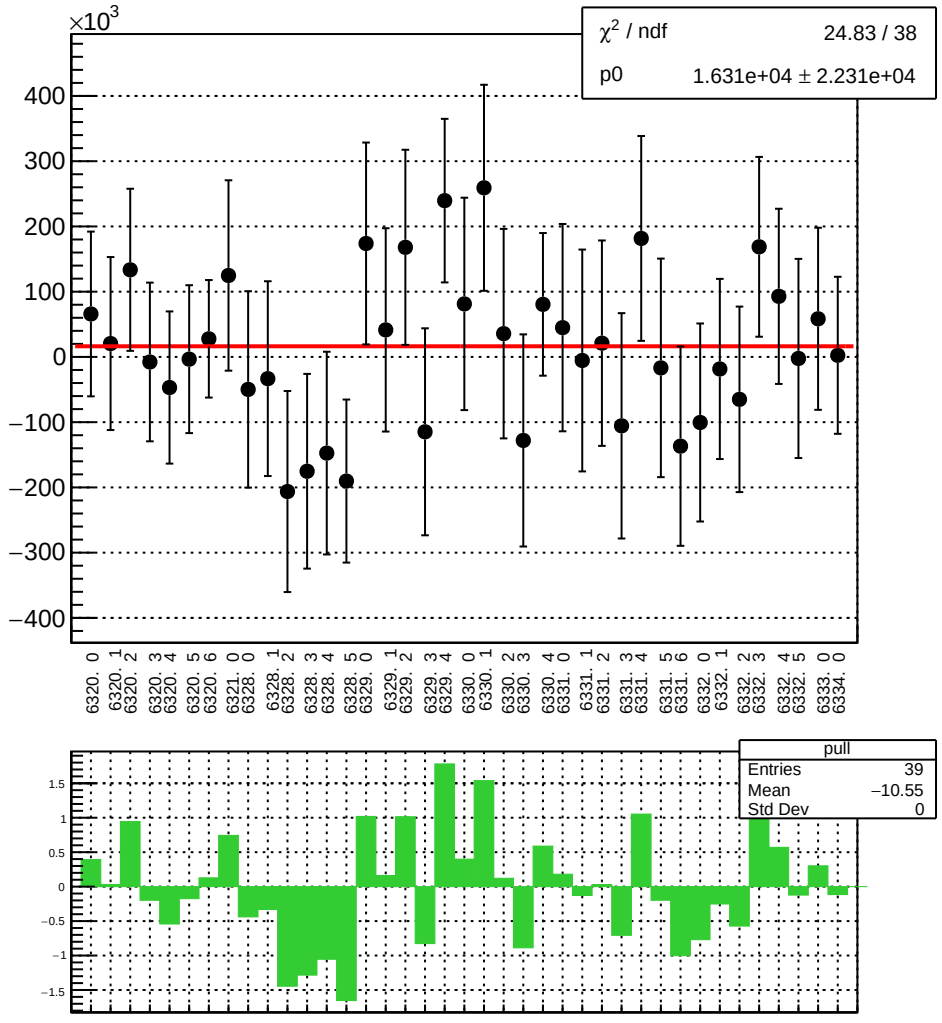

pull1D
Entries 39
Mean −0.01528
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

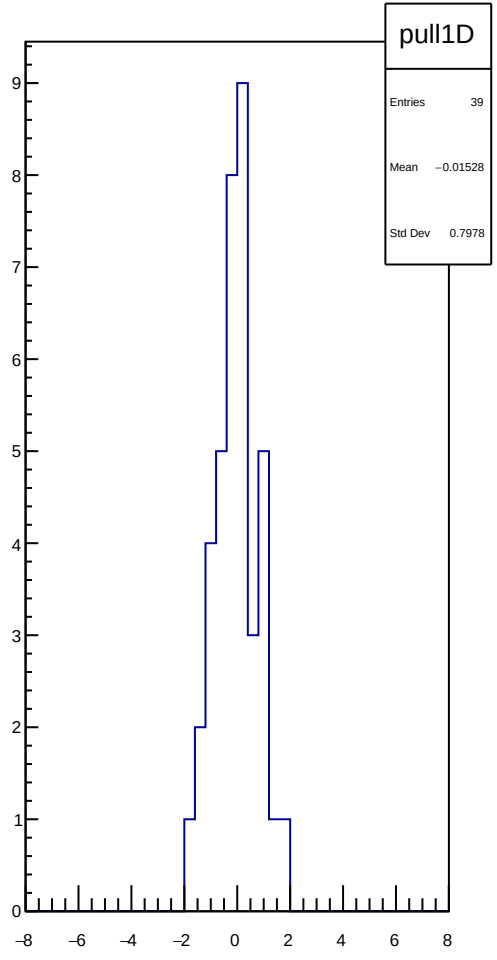

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.032e+04 / 38
p0 1.364e+04 ± 15.78
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

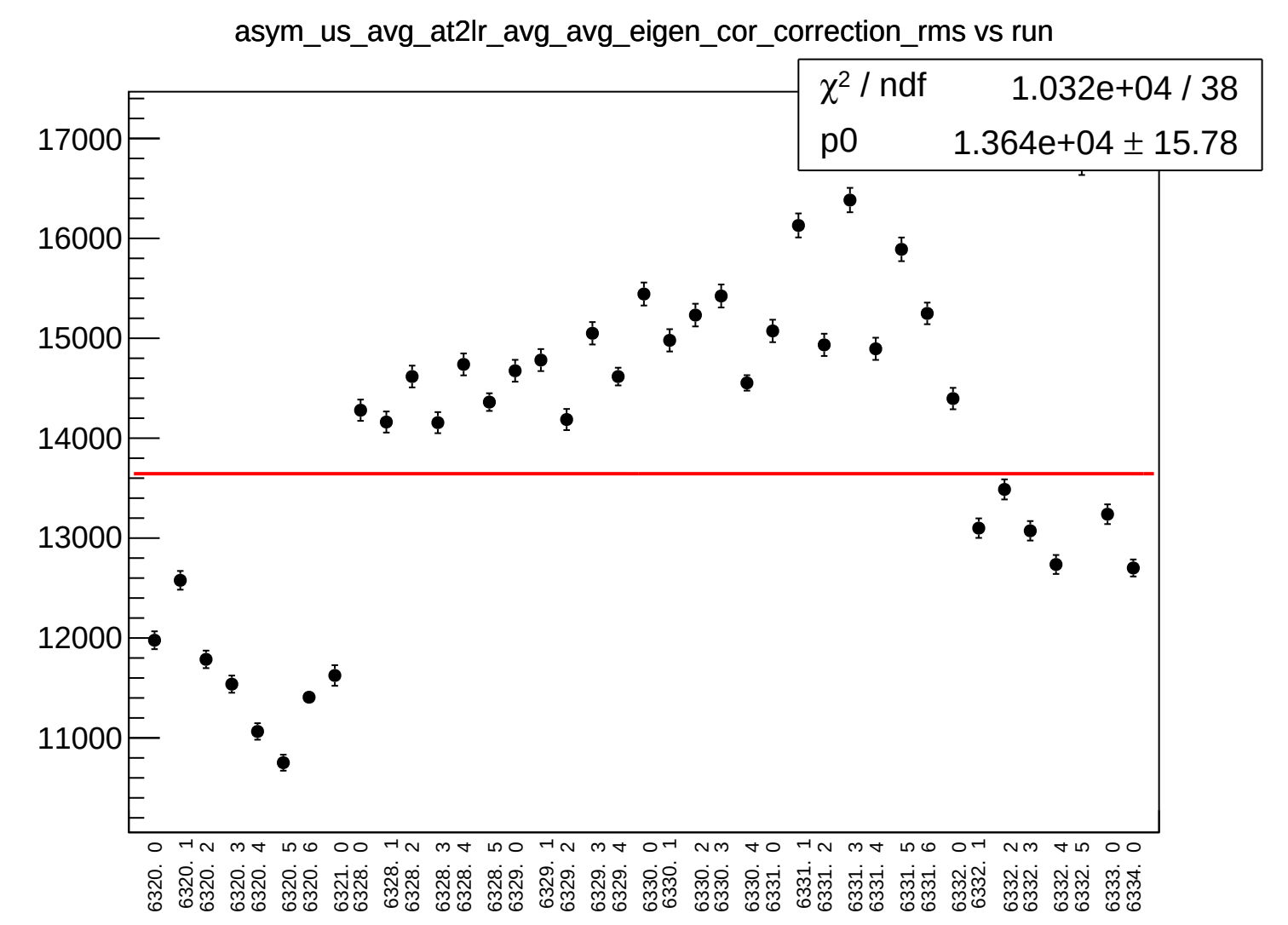

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.57 / 38
p0 6091 ± 4426
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −89.59
Std Dev 0
2
1
0
−1
−2
−3

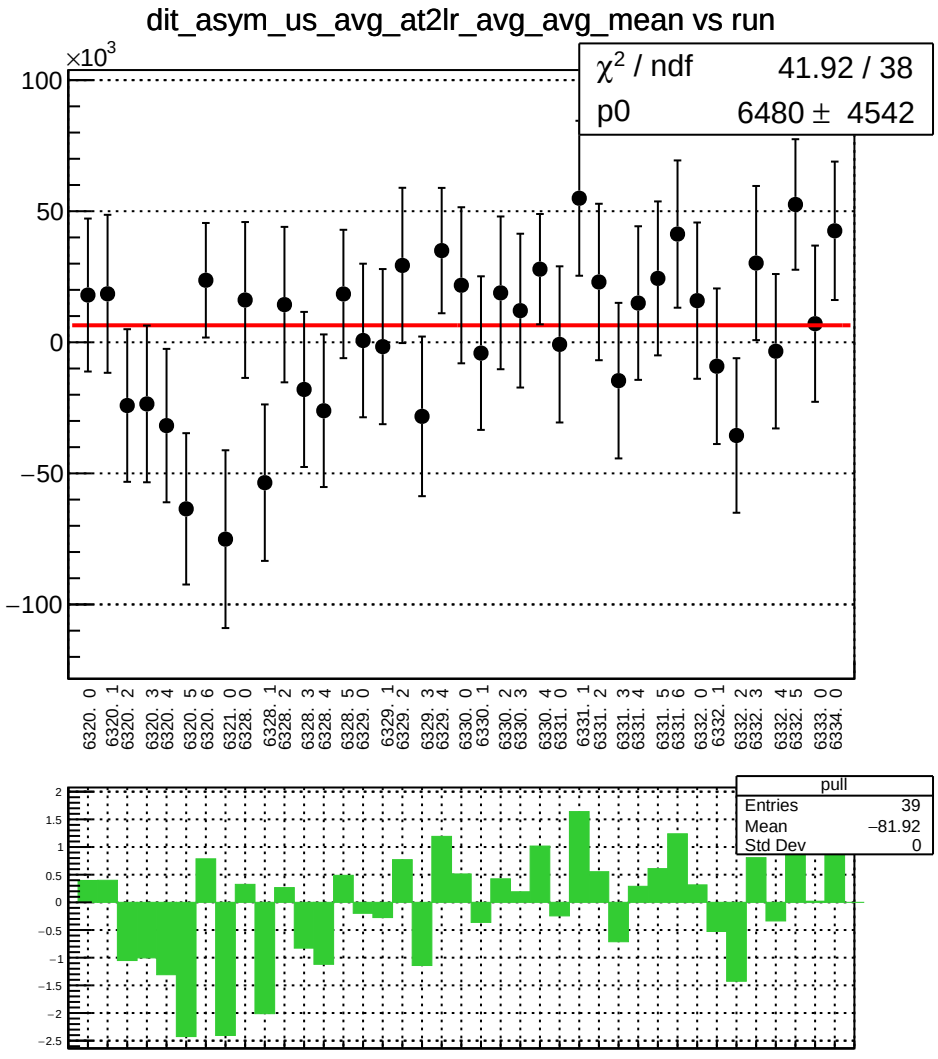

pull1D
Entries 39
Mean −0.05006
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

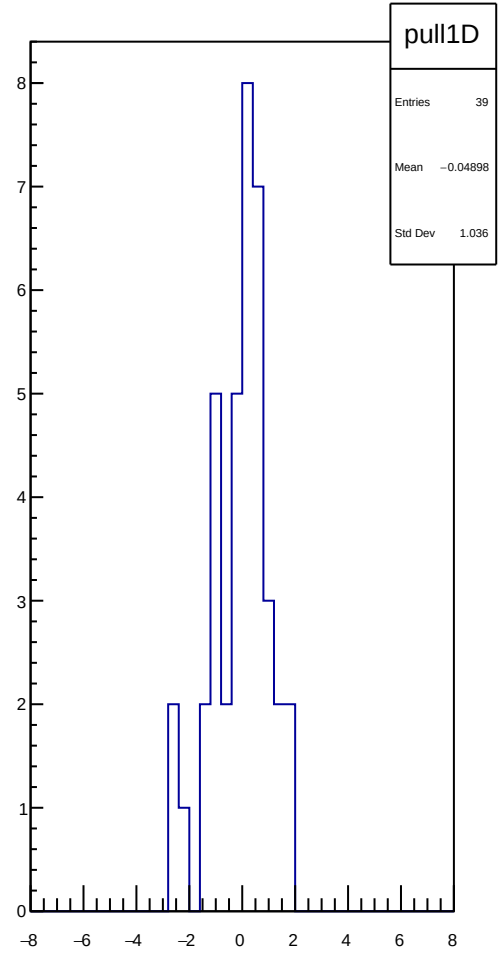

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 108.8 / 38
p0 2725 ± 3.13
2800
2750
2700
2650
2600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

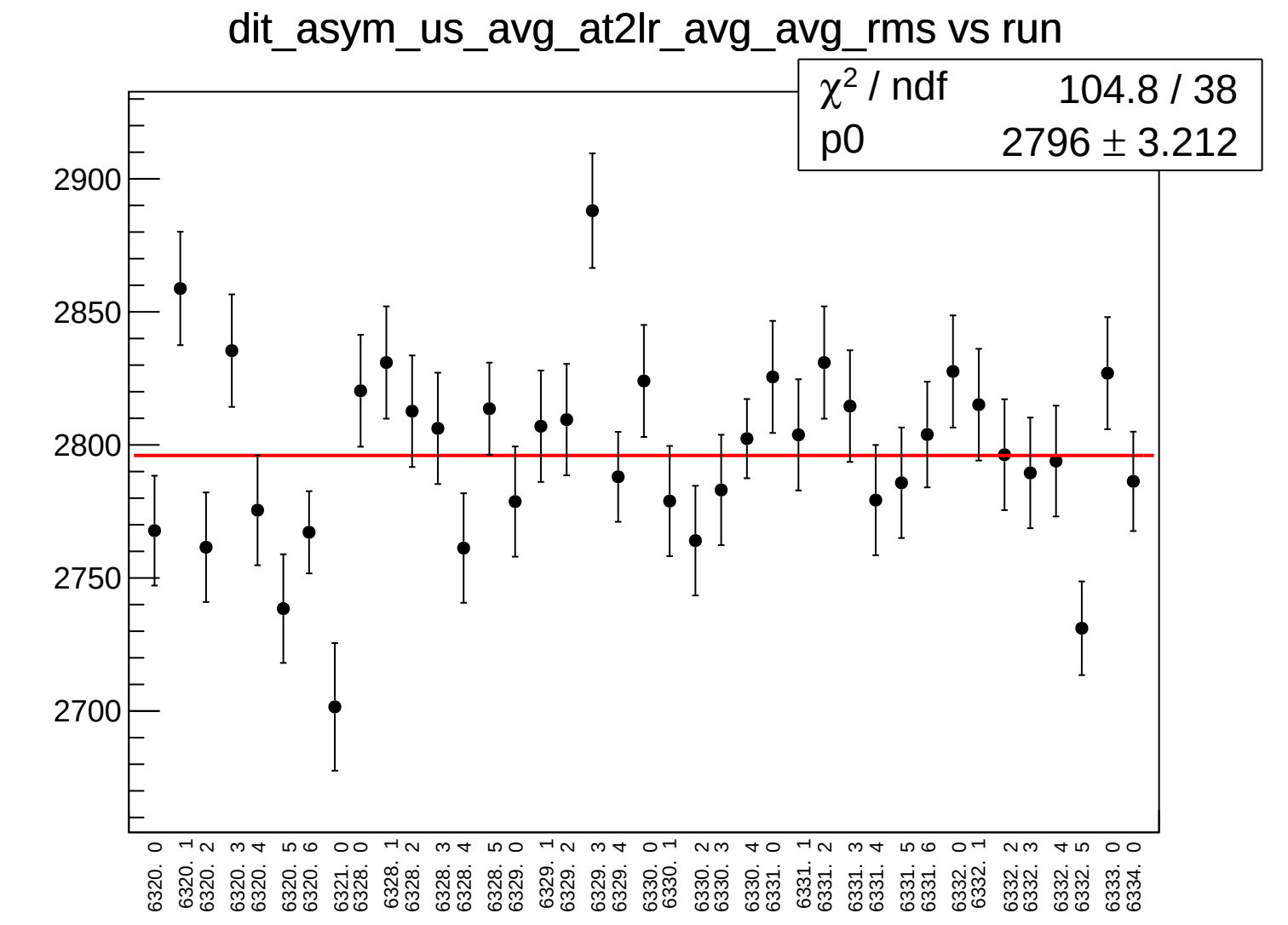

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.83 / 38
p0 1.631e+04 ± 2.231e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

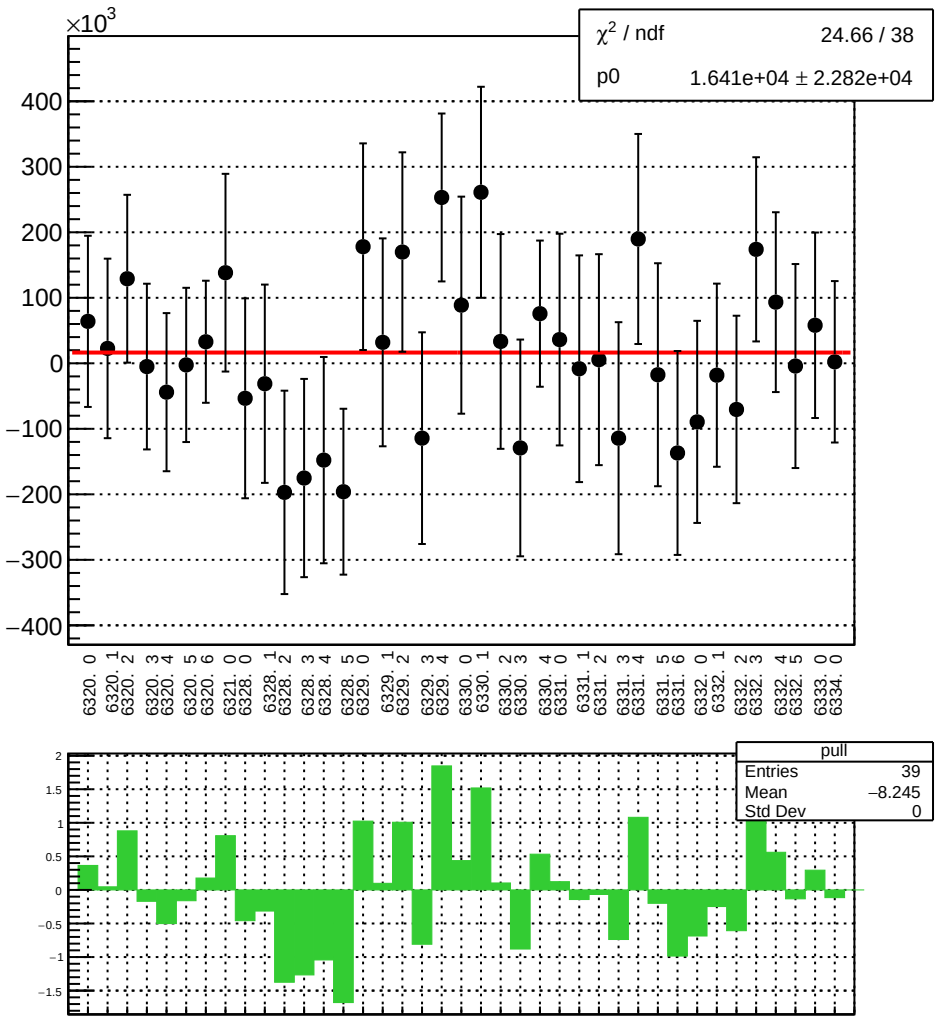

pull1D
Entries 39
Mean −0.01528
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

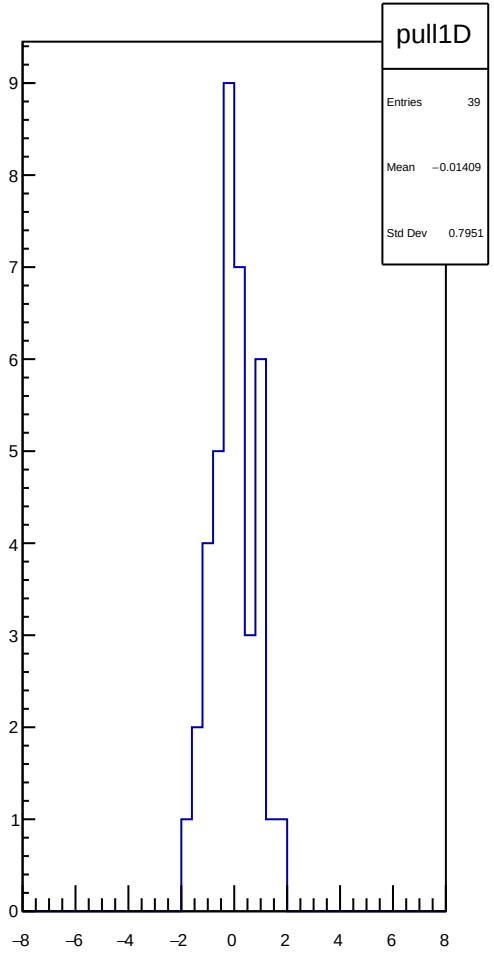

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.032e+04 / 38
p0 1.364e+04 ± 15.78
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

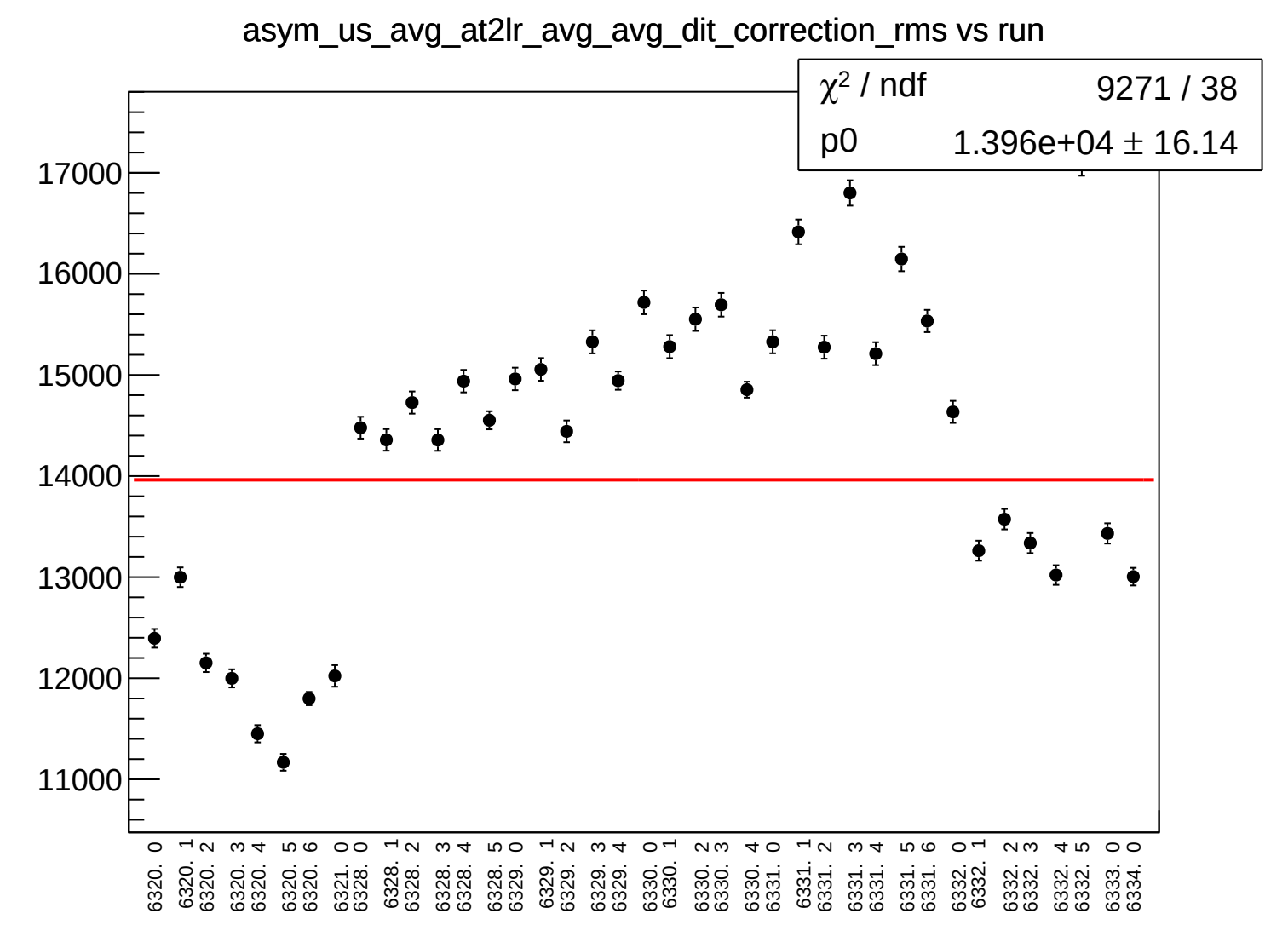

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 41.92 / 38
p0 6480 ± 4542
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −81.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

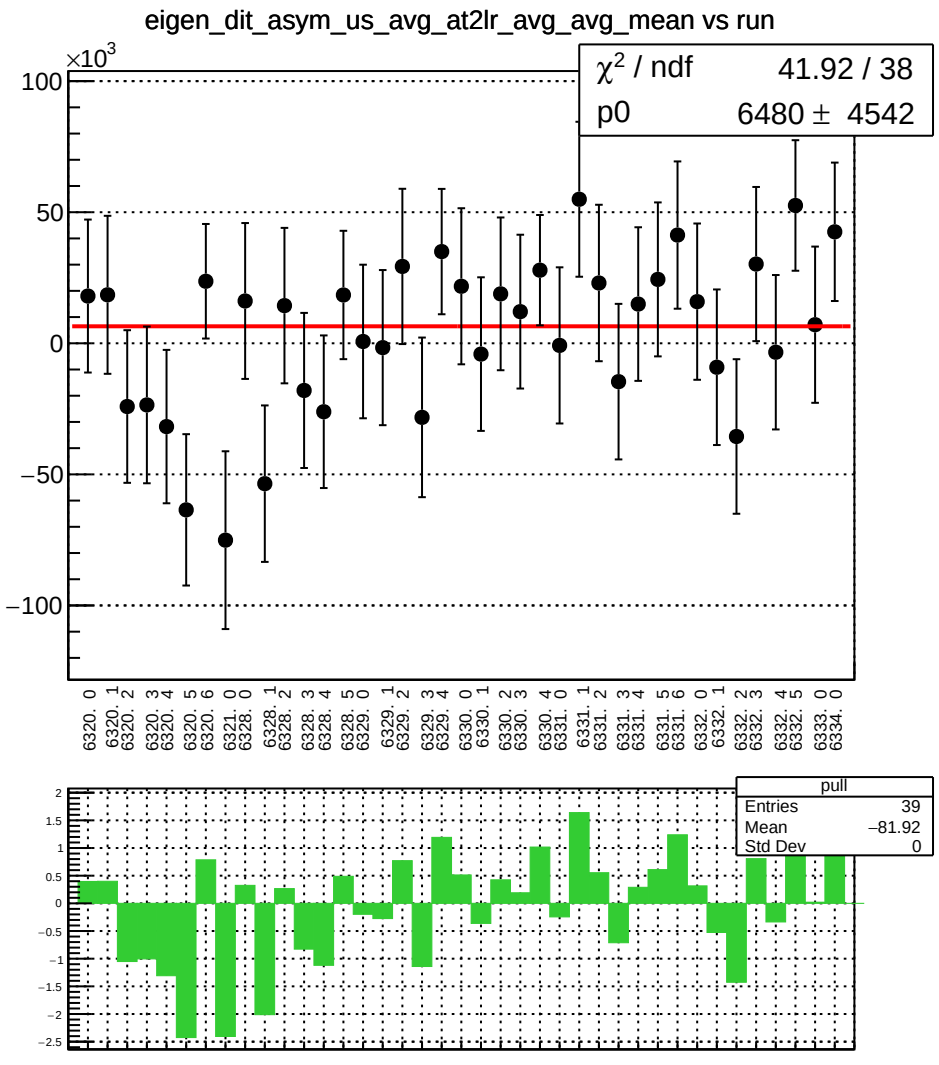

pull1D
Entries 39
Mean −0.04898
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

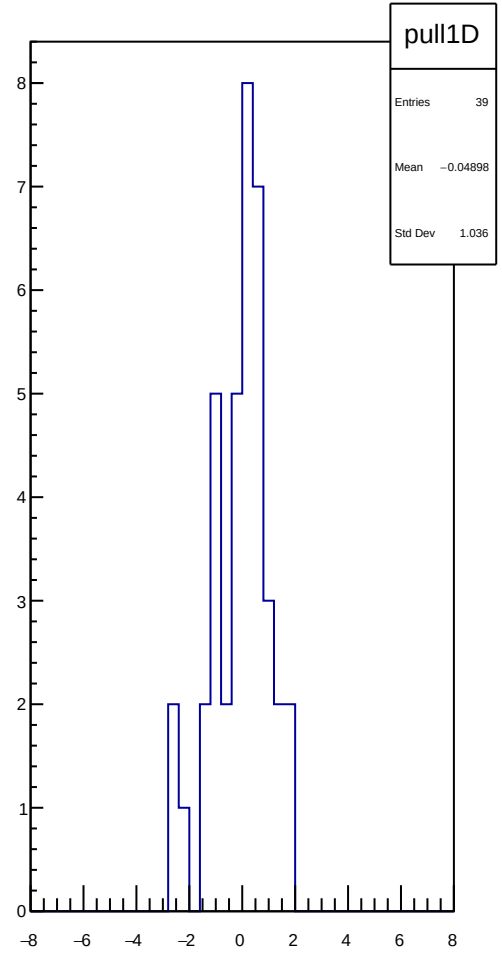

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 104.8 / 38
p0 2796 ± 3.212
2900
2850
2800
2750
2700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

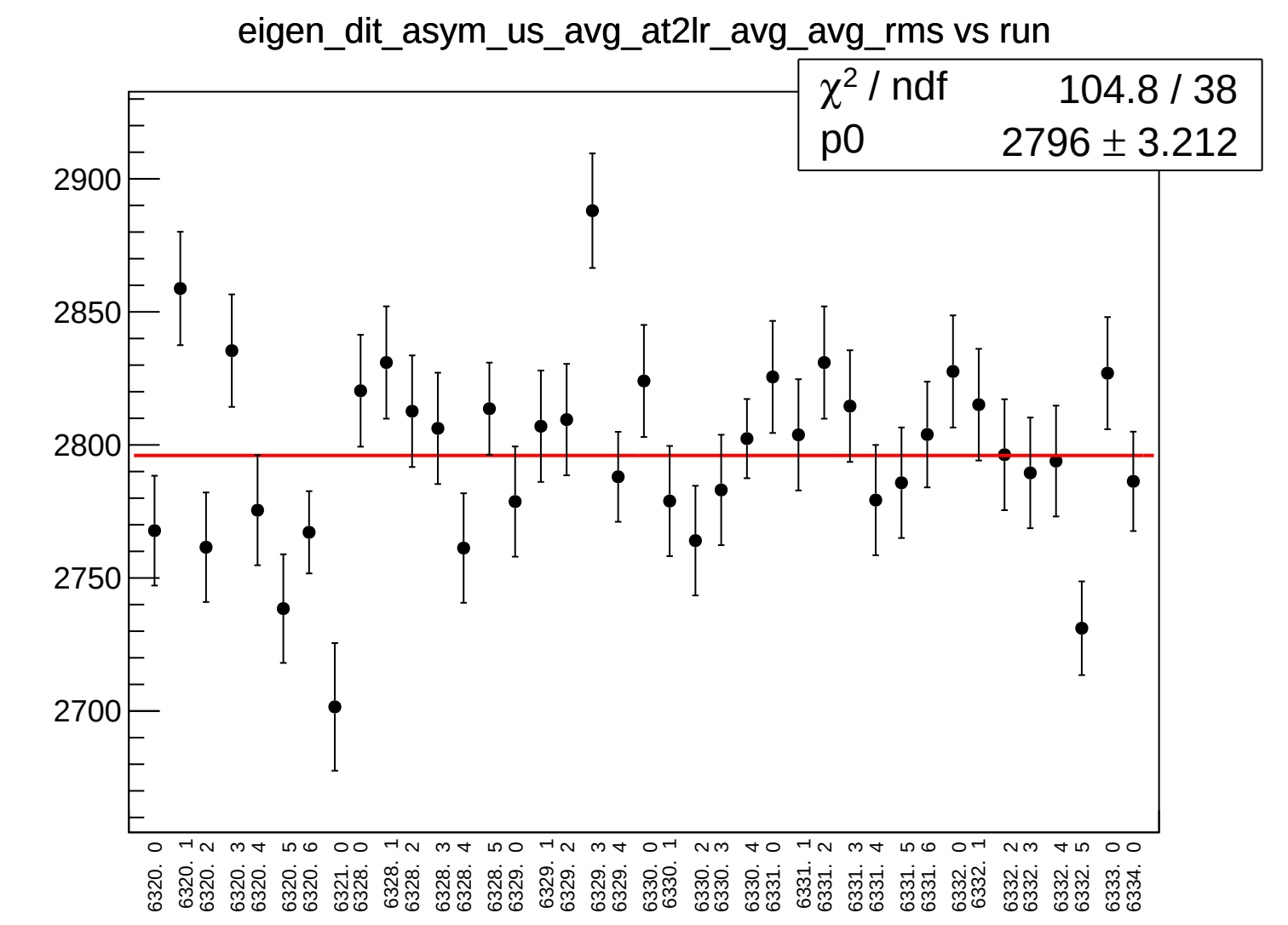

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.66 / 38
p0 1.641e+04 ± 2.282e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.245
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

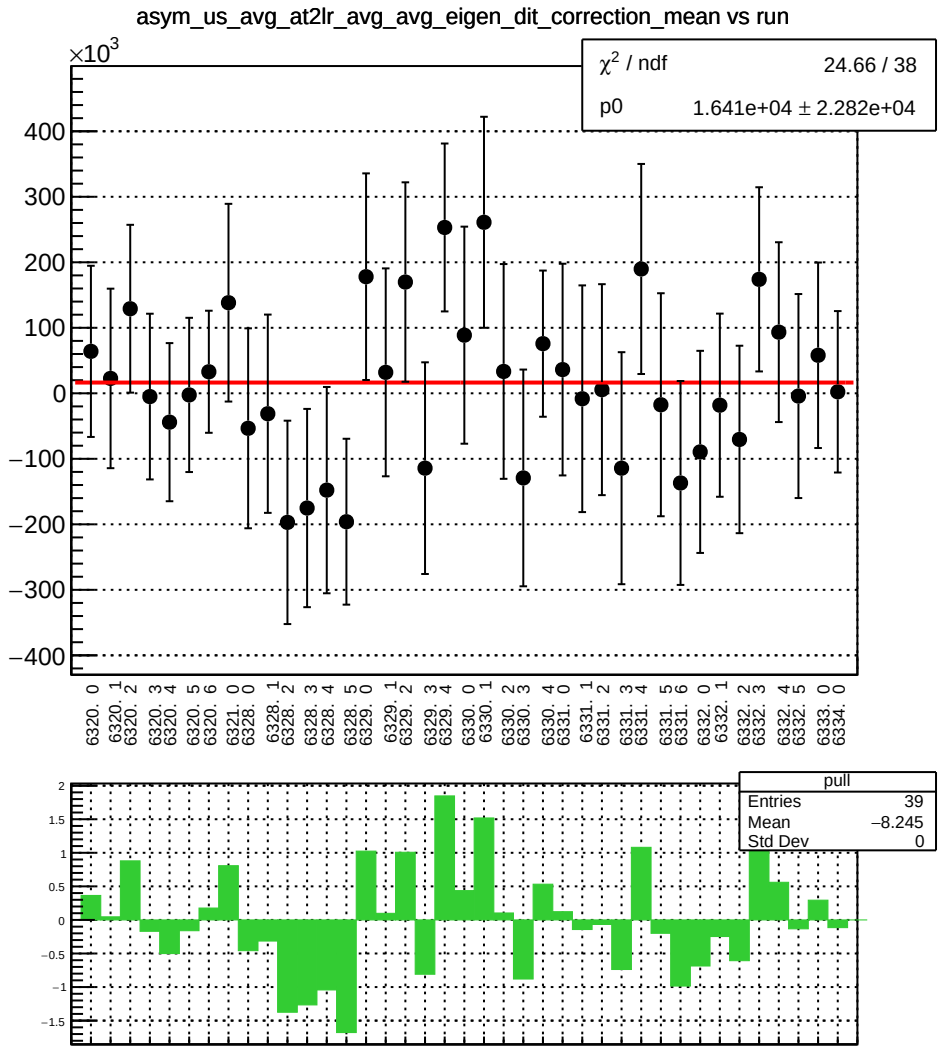

pull1D
Entries 39
Mean −0.01409
Std Dev 0.7951
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

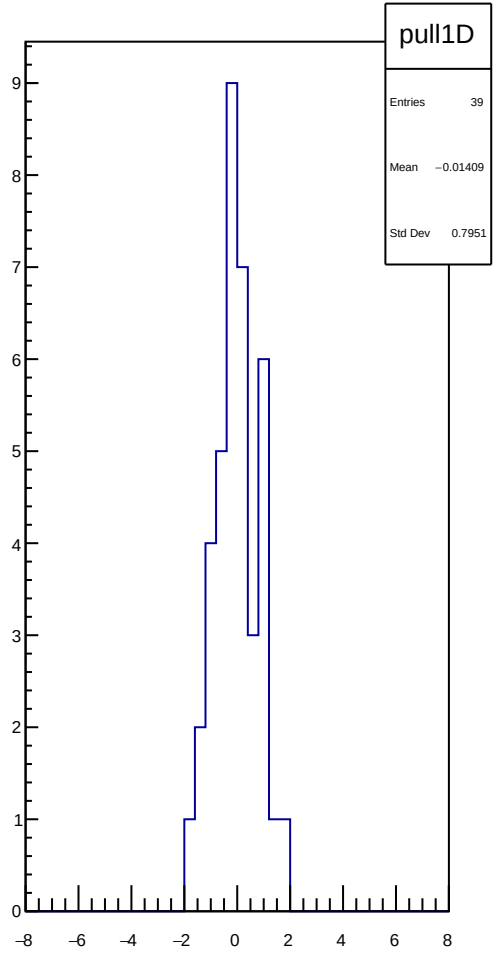

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 9271 / 38
p0 1.396e+04 ± 16.14
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

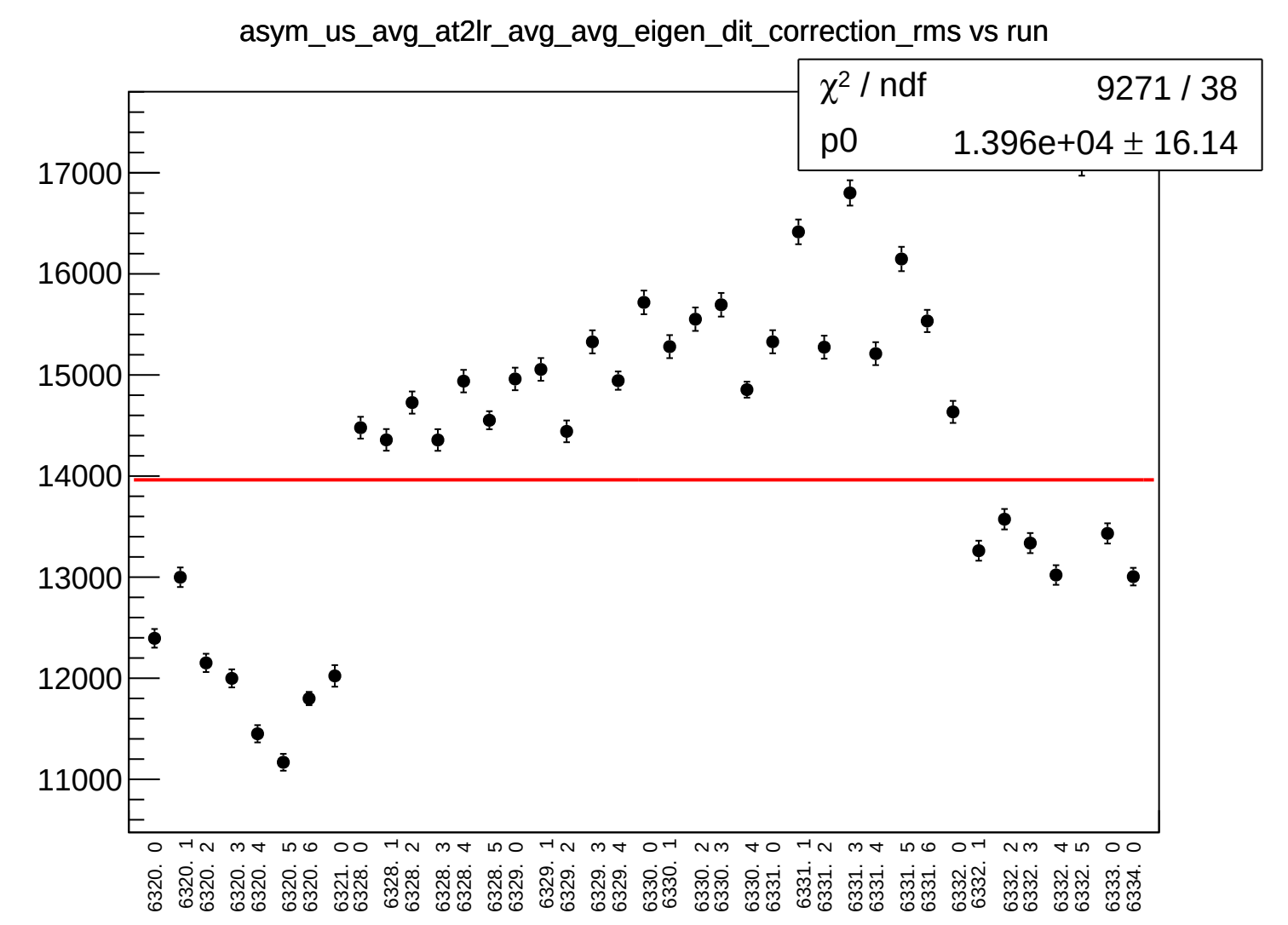

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 41.92 / 38
p0 6480 ± 4542
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −81.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

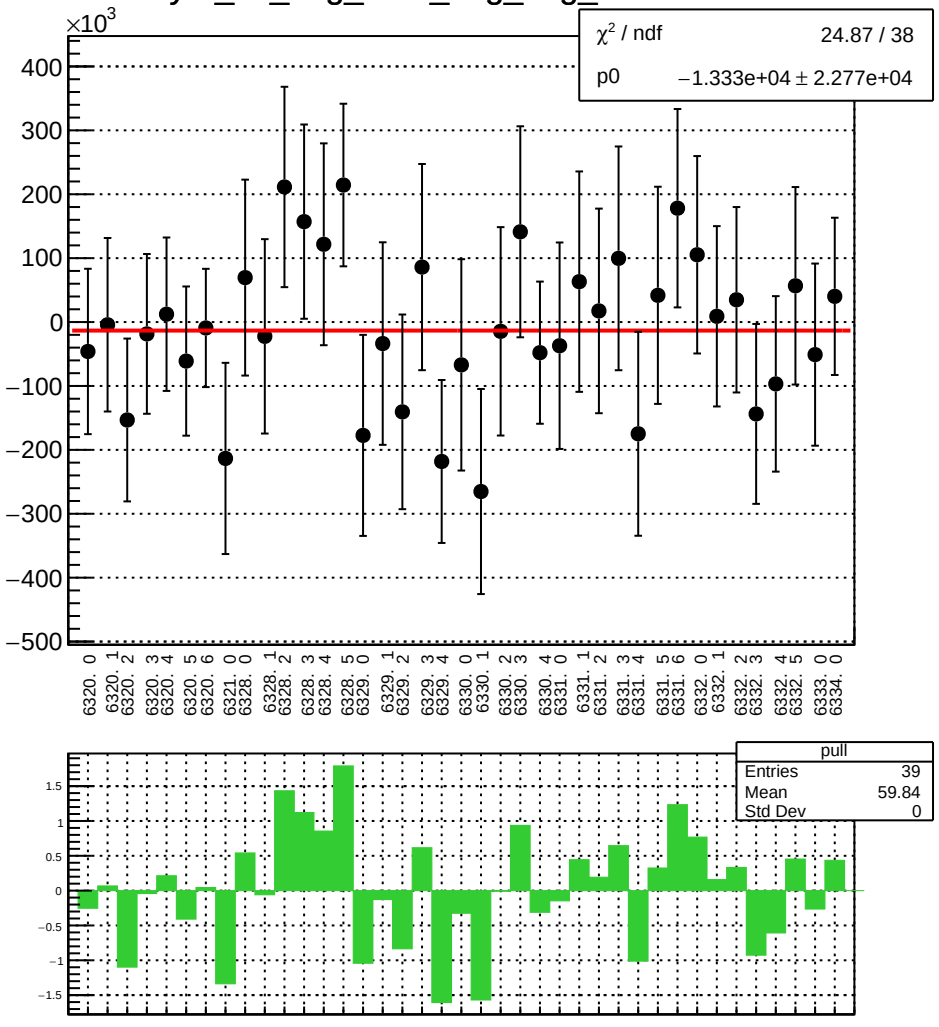

pull1D
Entries 39
Mean −0.04898
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

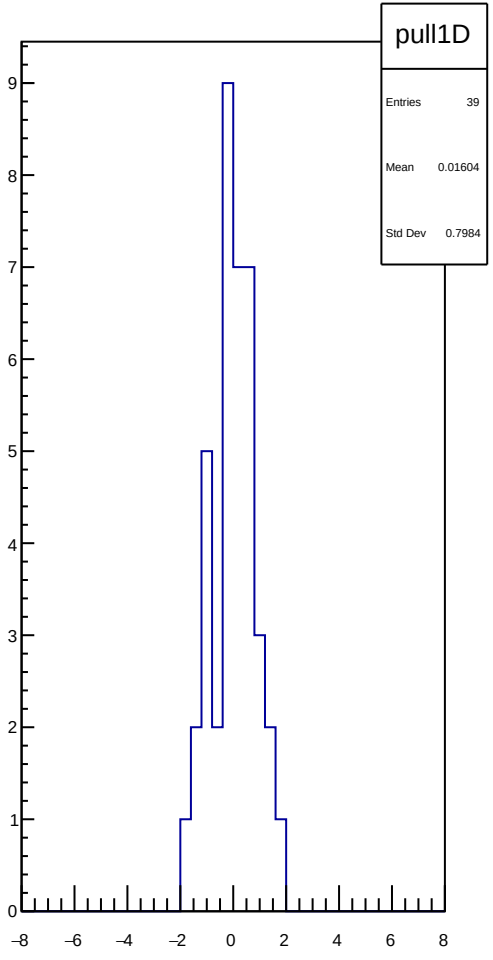

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 104.8 / 38
p0 2796 ± 3.212
2900
2850
2800
2750
2700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

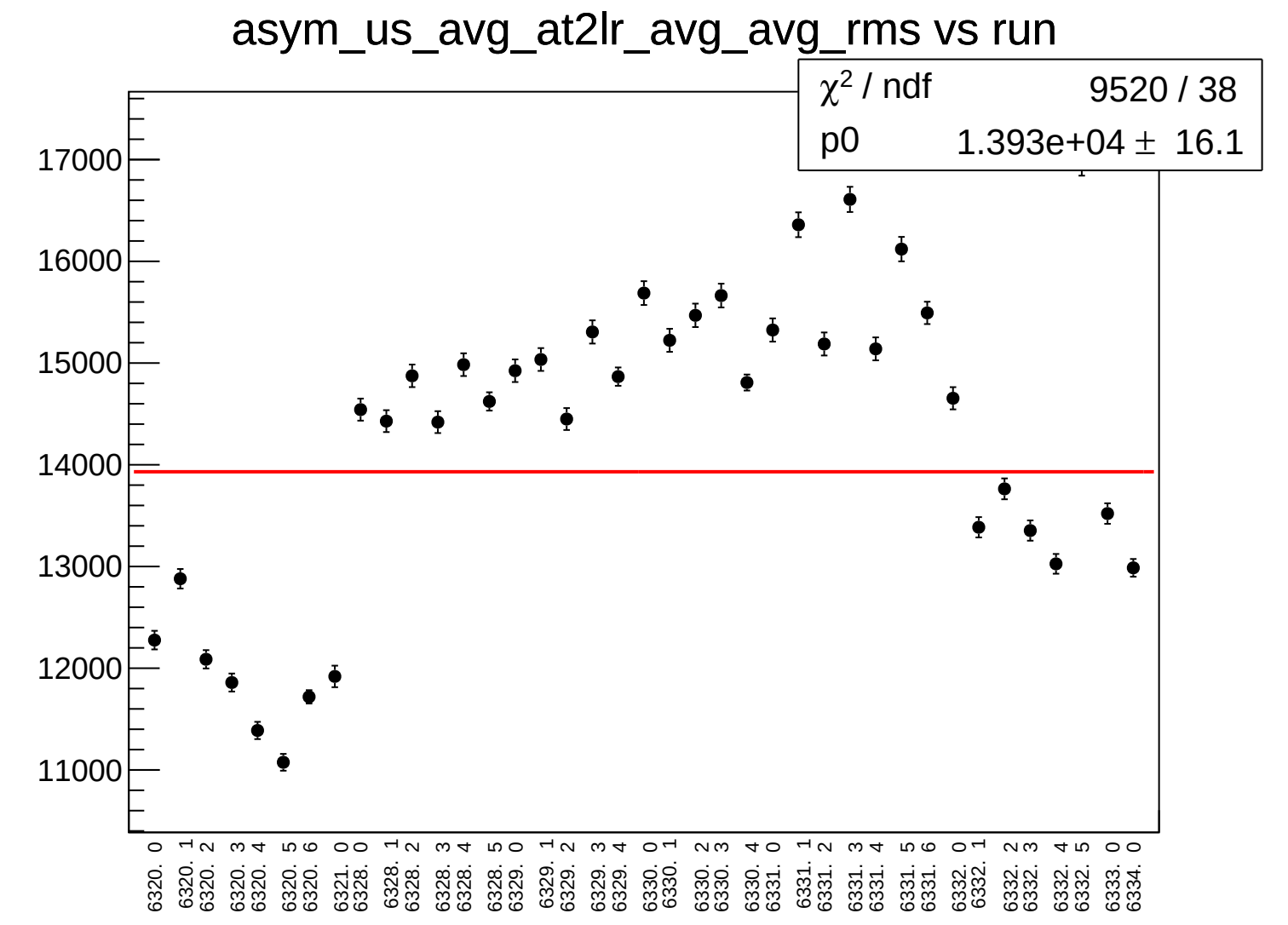

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.66 / 38
p0 1.641e+04 ± 2.282e+04
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.245
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

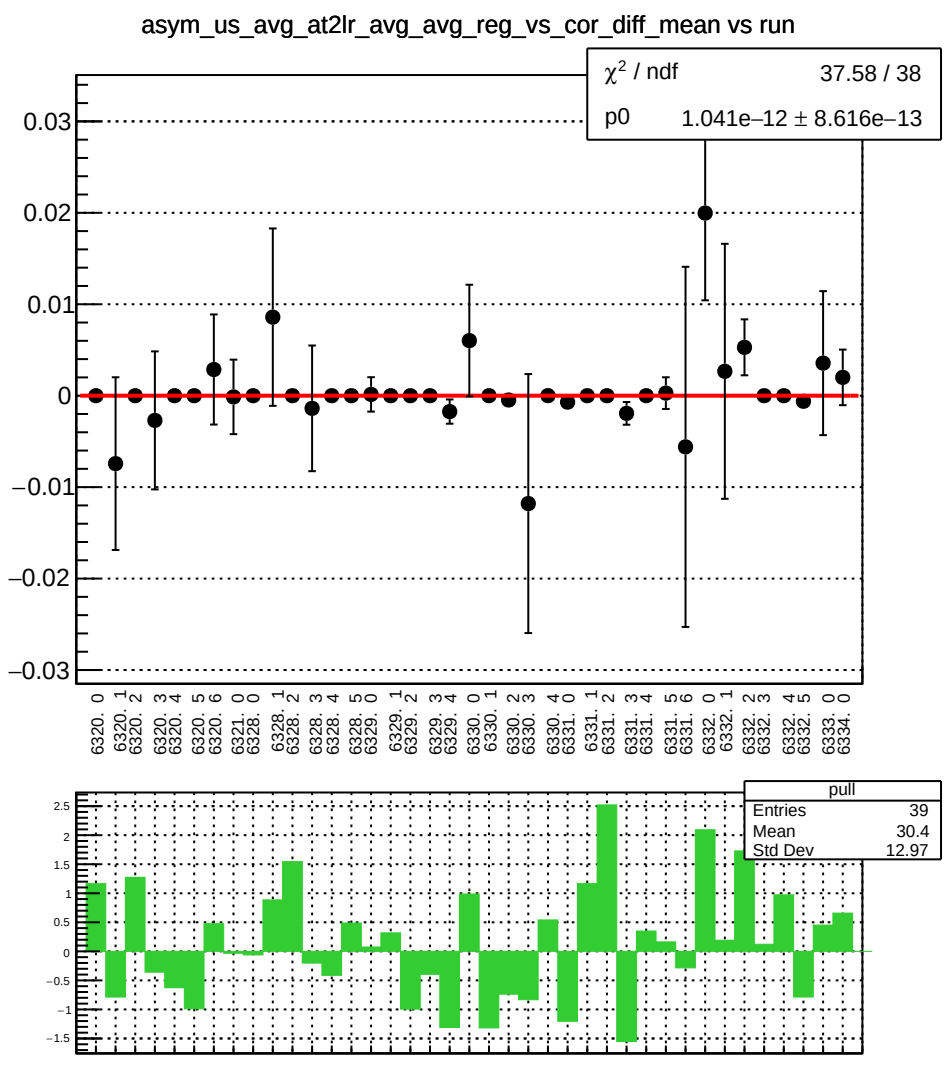

pull1D
Entries 39
Mean −0.01409
Std Dev 0.7951
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

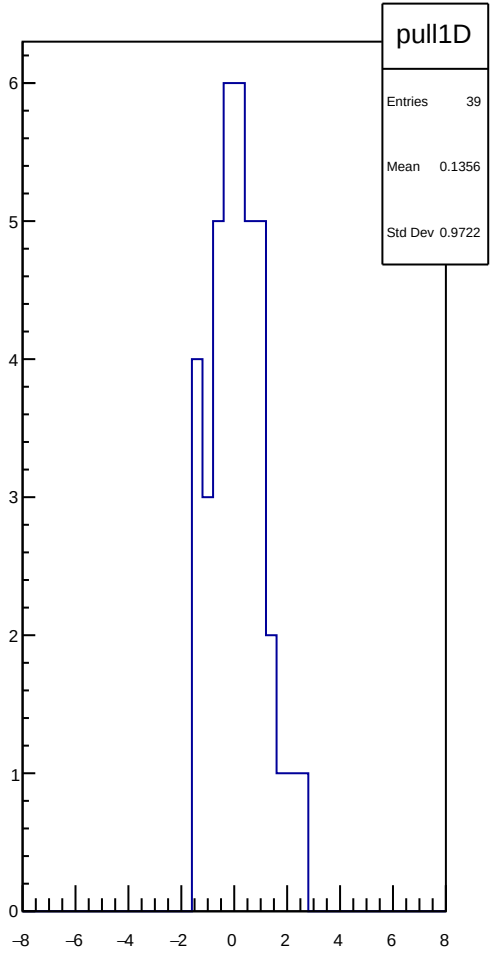

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9271 / 38
p0 1.396e+04 ± 16.14
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

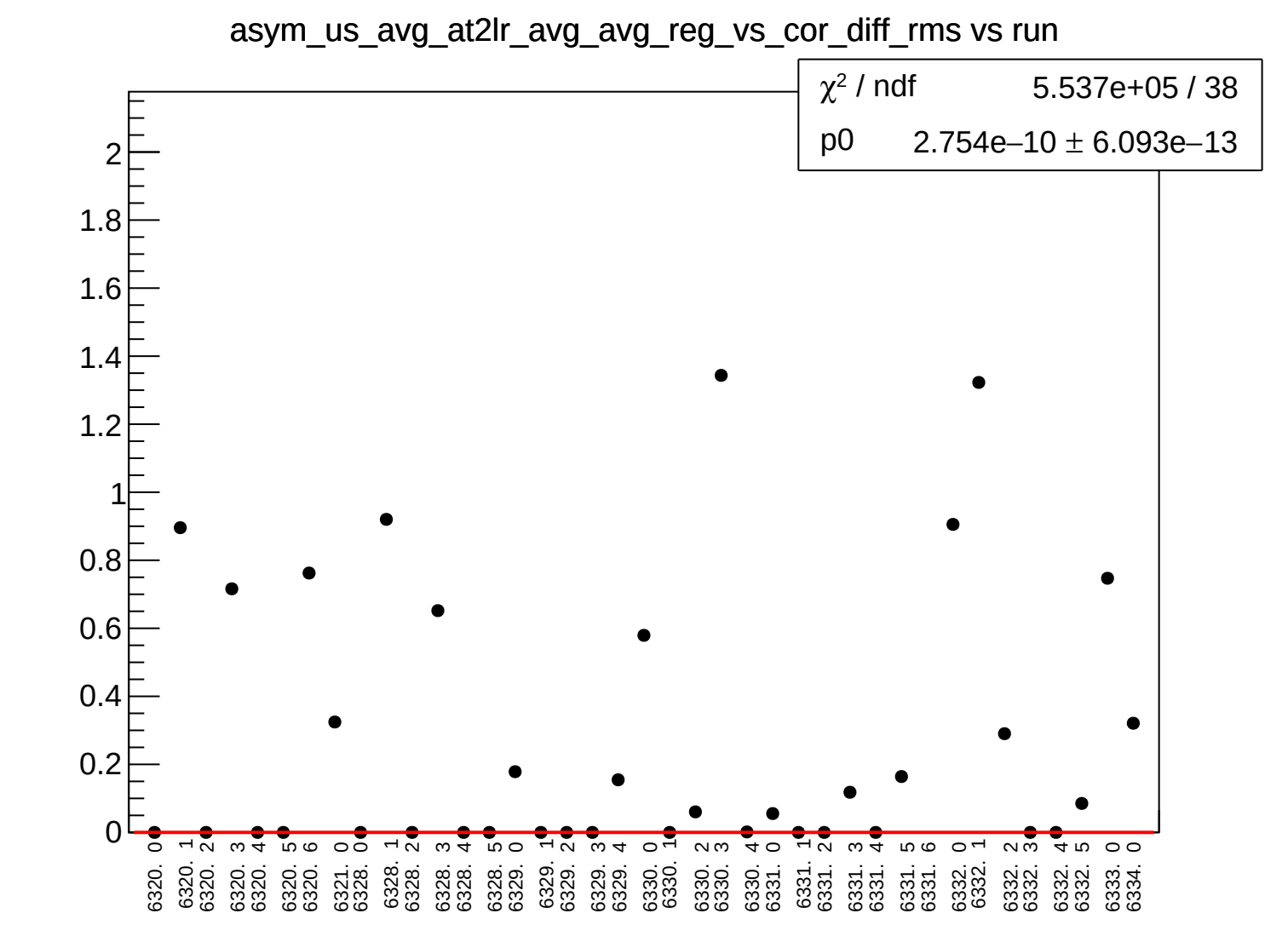

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 24.87 / 38
p0 −1.333e+04 ± 2.277e+04
pull
Entries 39
Mean 59.84
Std Dev 0

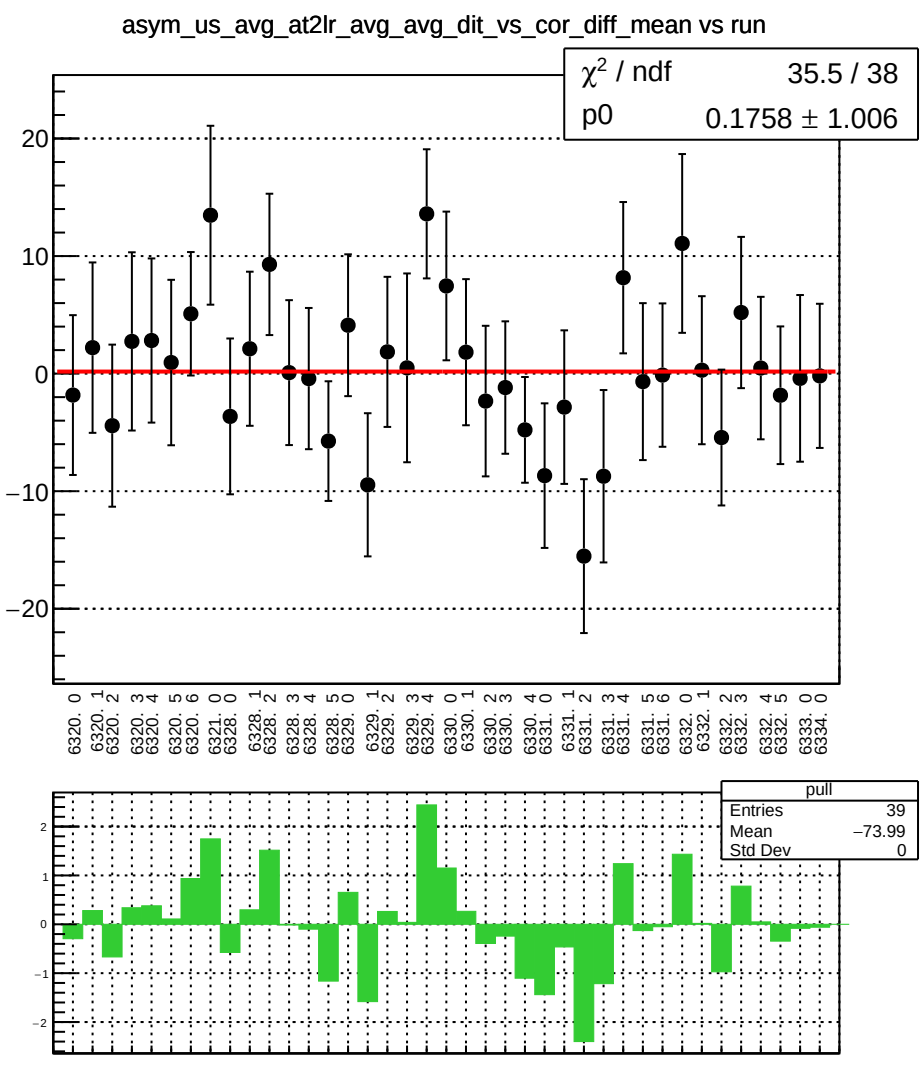

pull1D
Entries 39
Mean 0.01604
Std Dev 0.7984

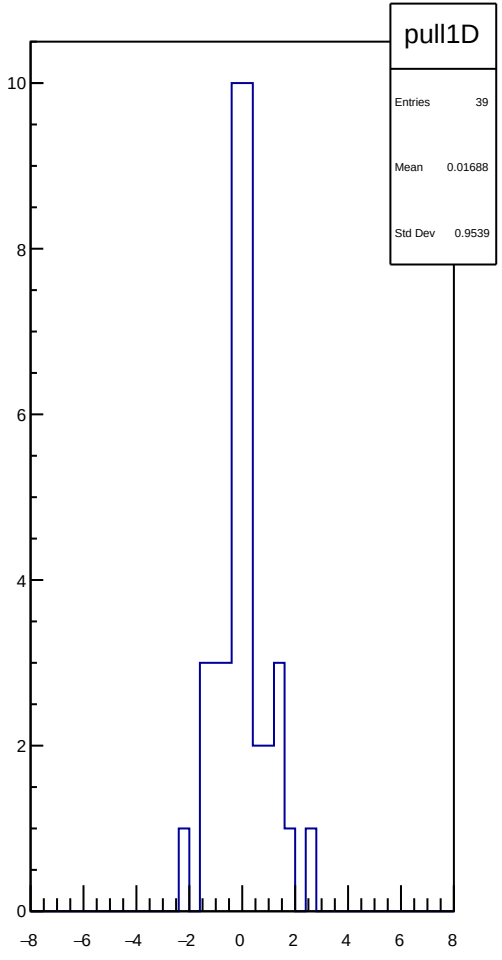

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 9520 / 38
p0 1.393e+04 ± 16.1
17000
16000
15000
14000
13000
12000
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

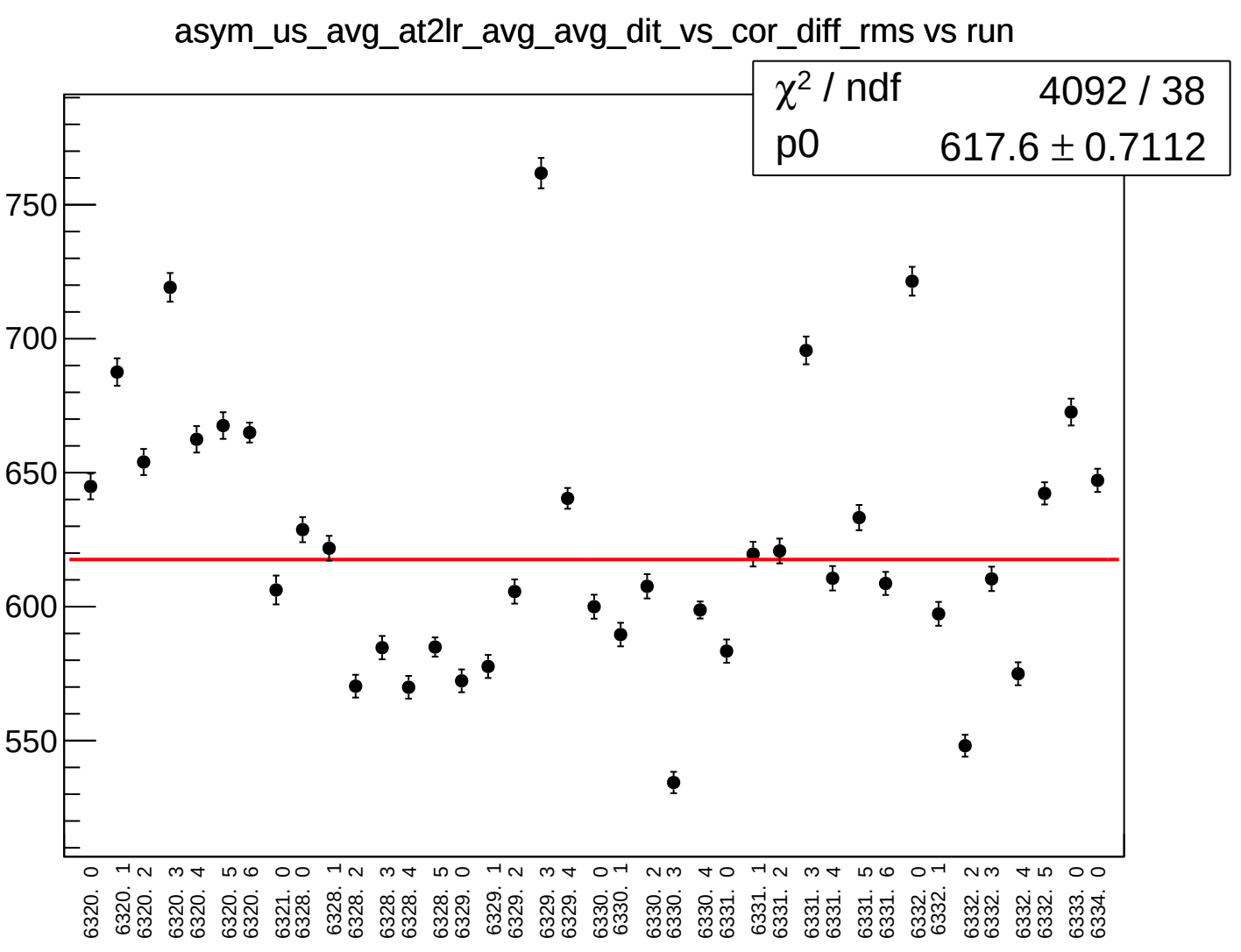

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 37.58 / 38
p0 1.041e−12 ± 8.616e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.4
Std Dev 12.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

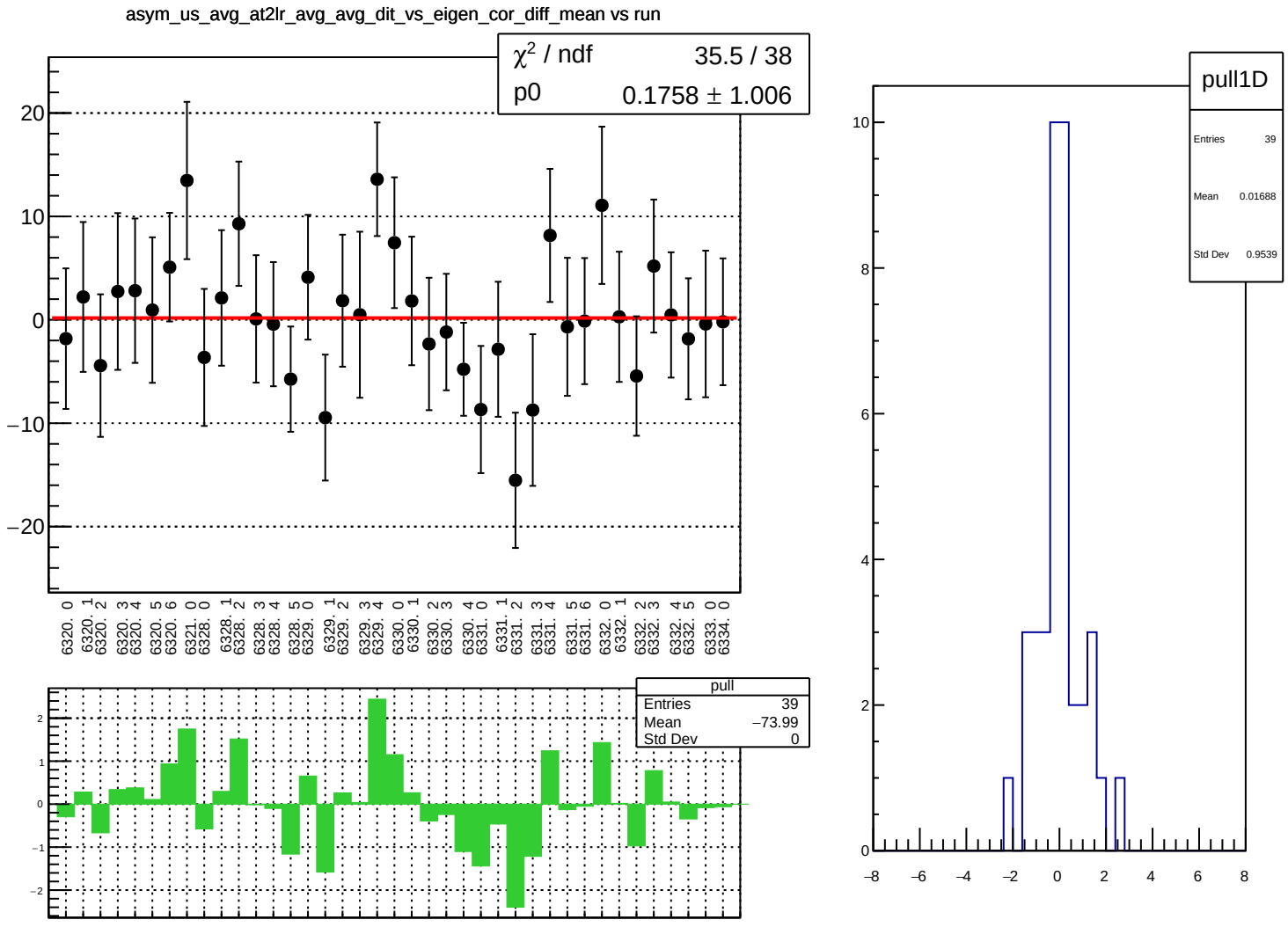

pull1D
Entries 39
Mean 0.1356
Std Dev 0.9722
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

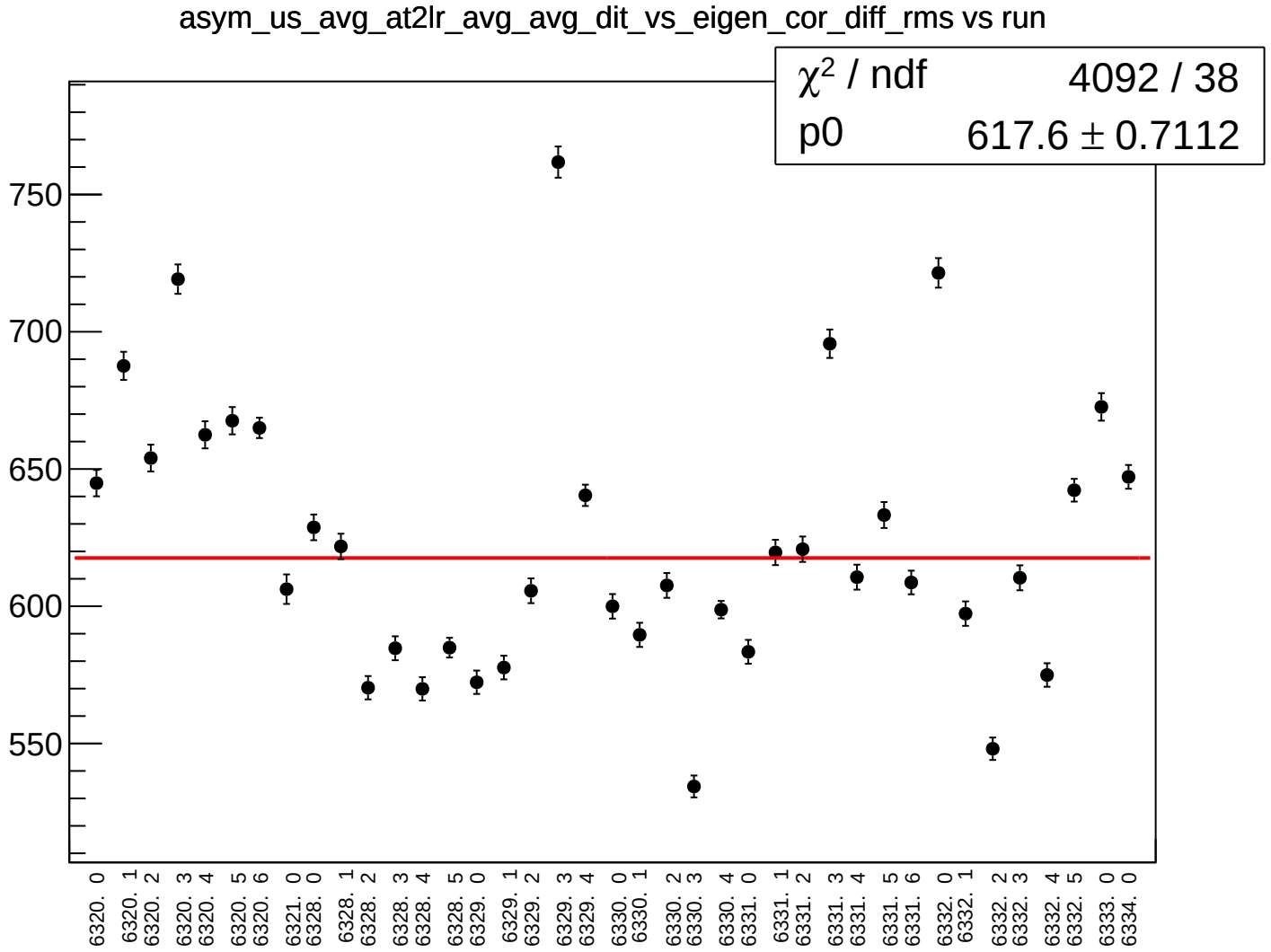

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.537e+05 / 38
p0 2.754e−10 ± 6.093e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

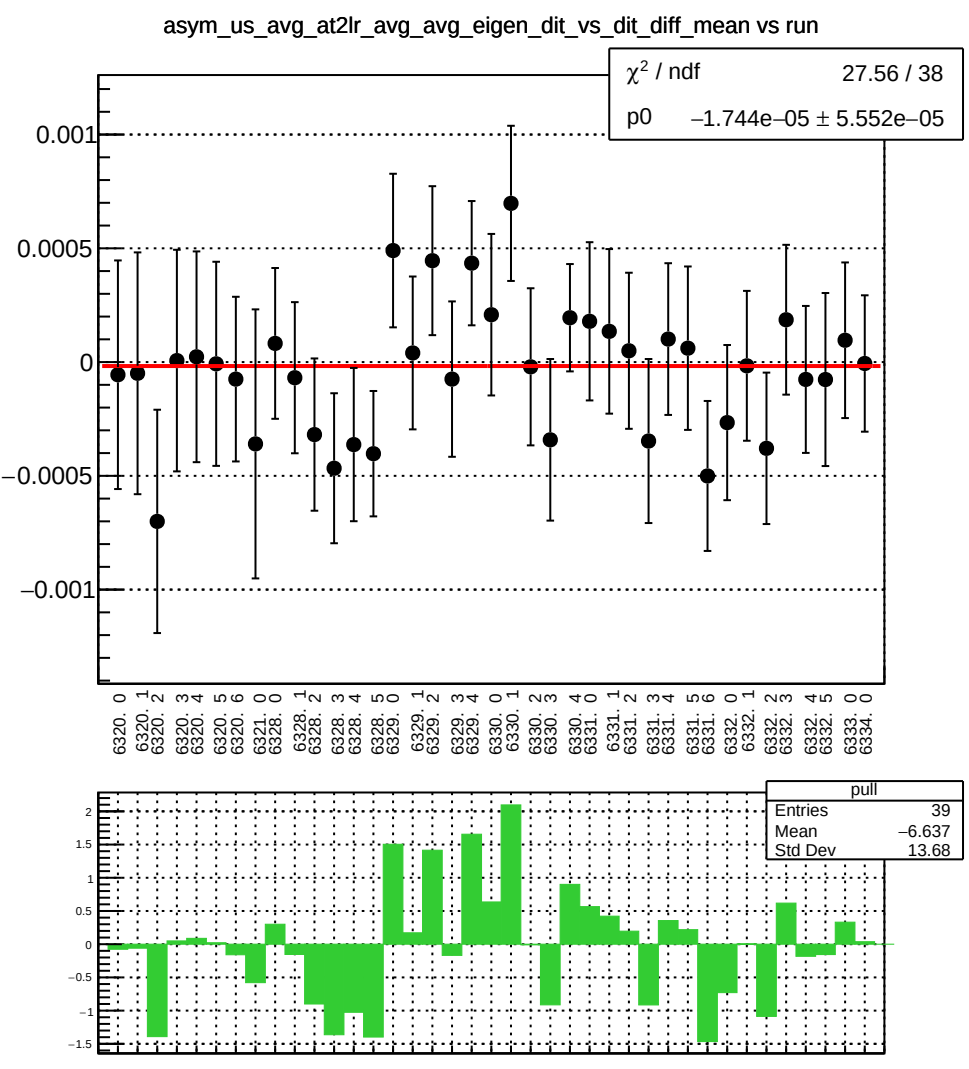

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.5 / 38
p0 0.1758 ± 1.006
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −73.99
Std Dev 0
2
1
0
−1
−2

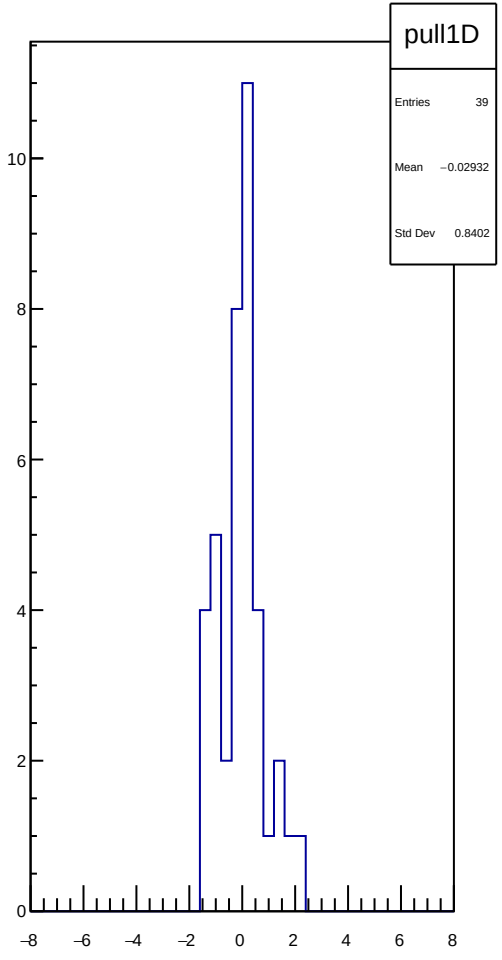

pull1D
Entries 39
Mean 0.01688
Std Dev 0.9539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

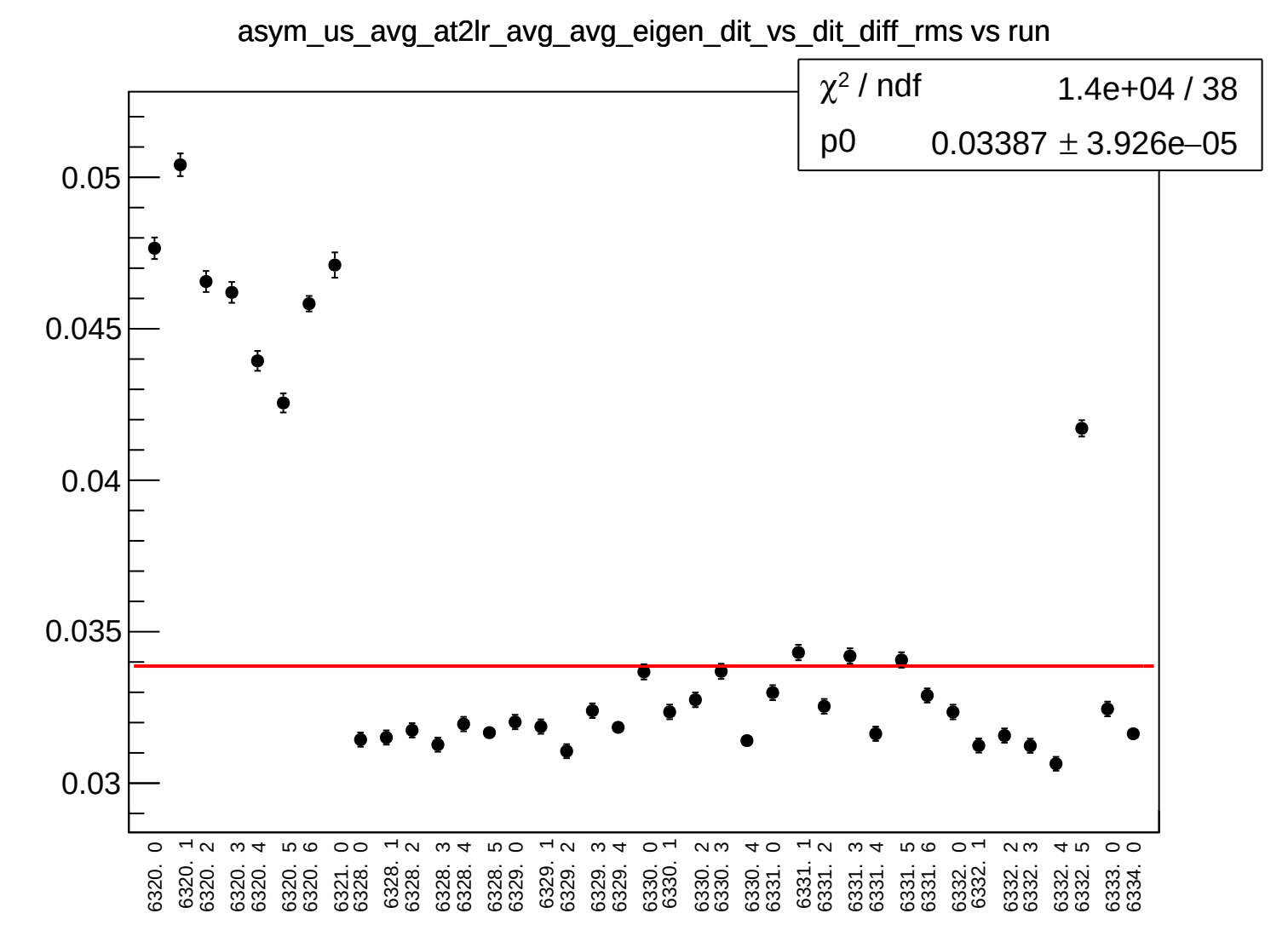

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4092 / 38
p0 617.6 ± 0.7112
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

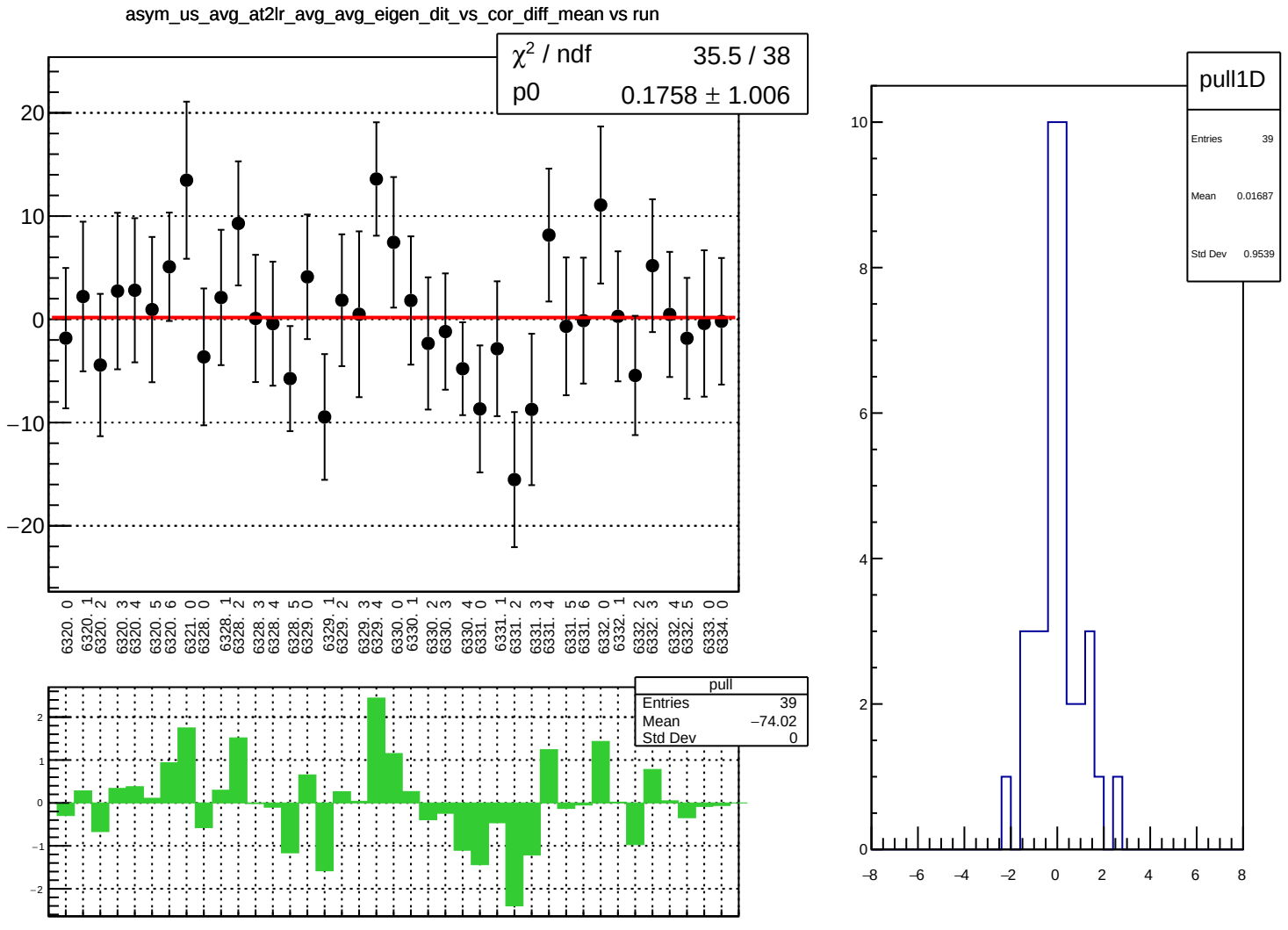

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.5 / 38
p0 0.1758 ± 1.006
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −73.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01688
Std Dev 0.9539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

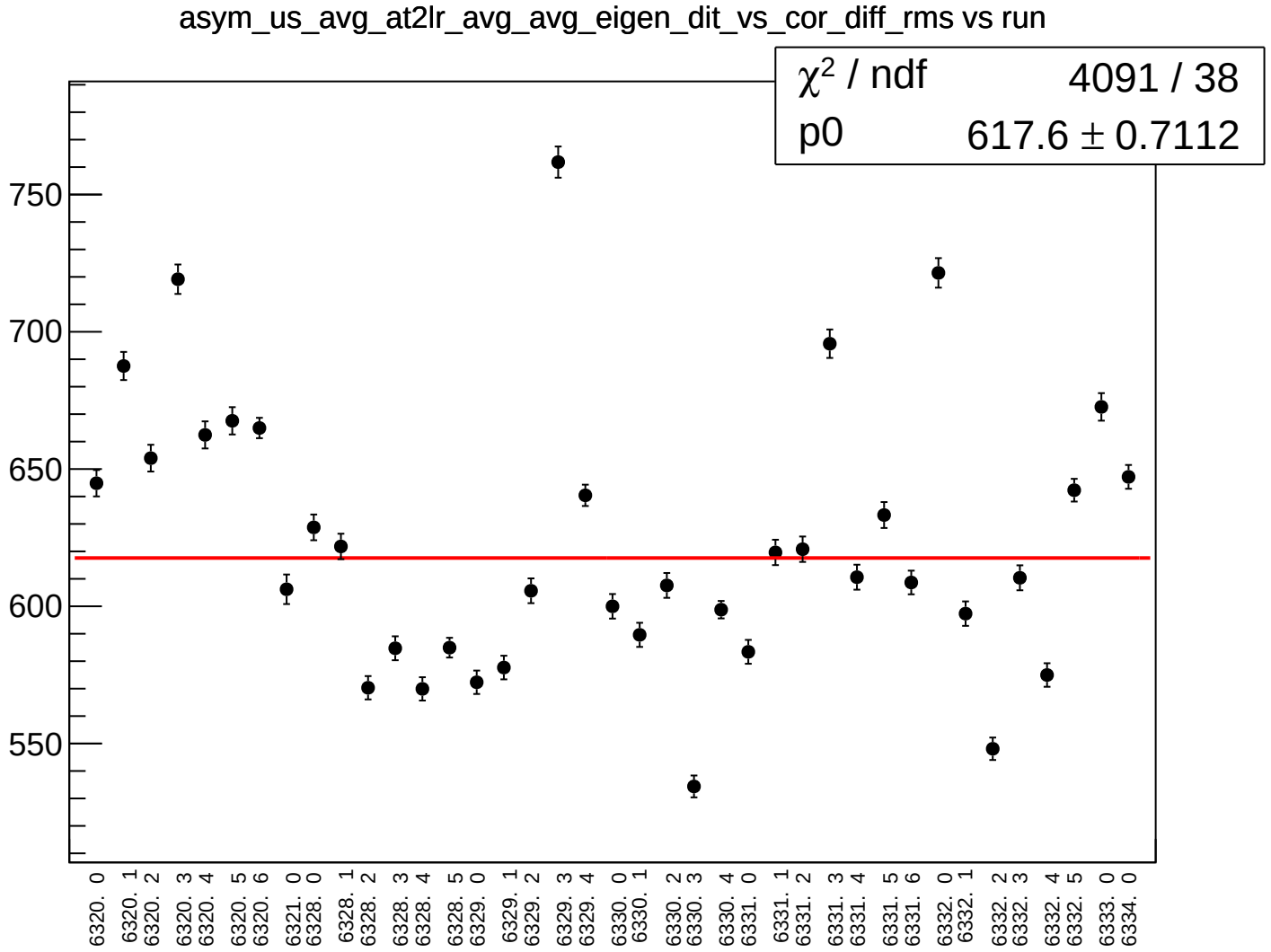

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4092 / 38
p0 617.6 ± 0.7112
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 27.56 / 38
p0 −1.744e−05 ± 5.552e−05
0.001
0.0005
0
−0.0005
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.637
Std Dev 13.68
2
1.5
1
0.5
0
−0.5
−1
−1.5

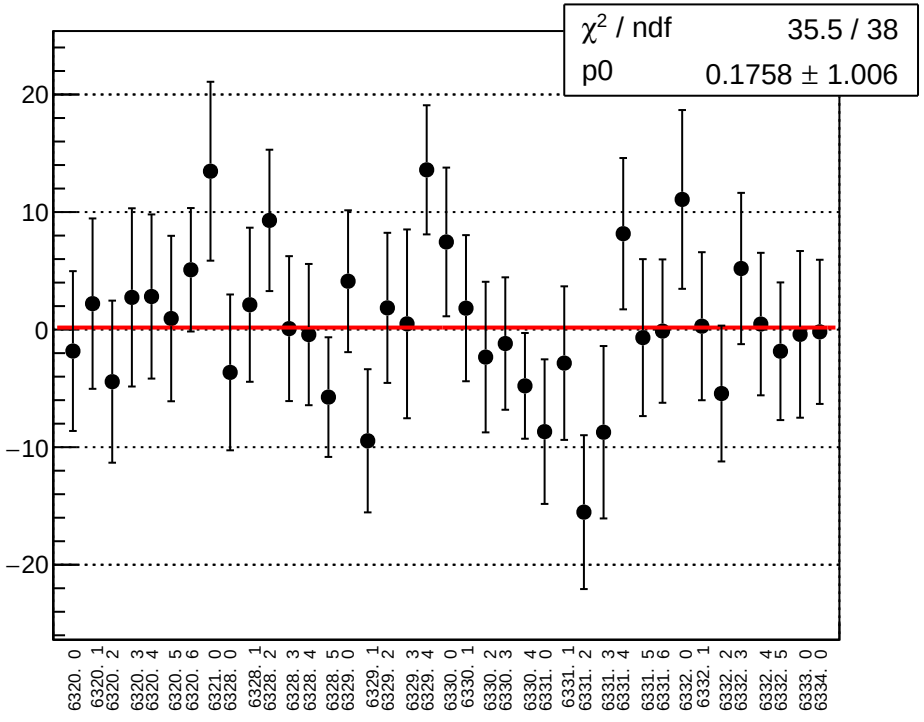

pull1D
Entries 39
Mean −0.02932
Std Dev 0.8402
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

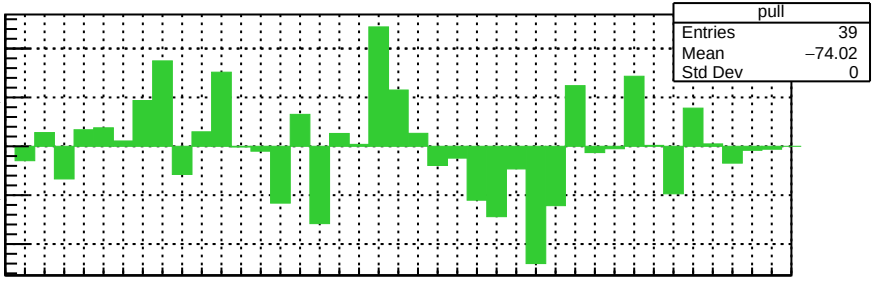

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.4e+04 / 38
p0 0.03387 ± 3.926e–05
0.05
0.045
0.04
0.035
0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

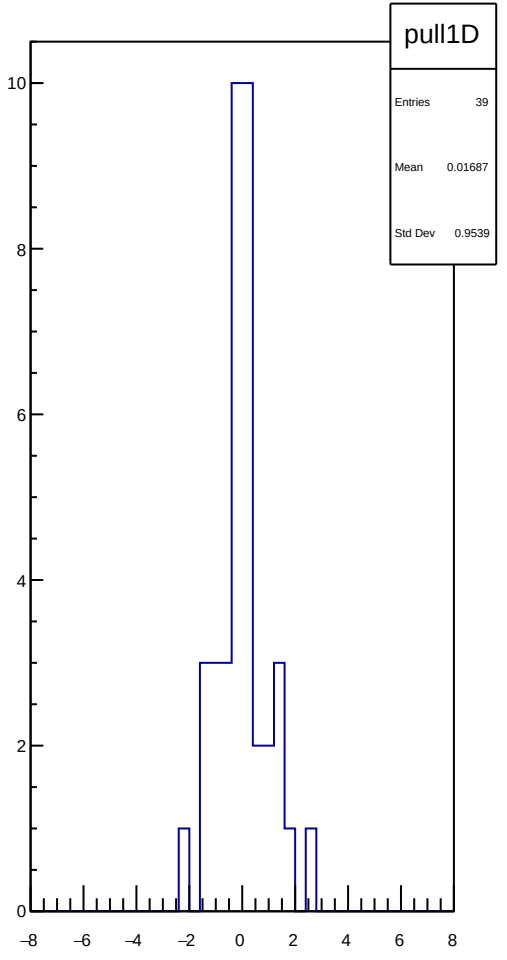

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.5 / 38
p0 0.1758 ± 1.006
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −74.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01687
Std Dev 0.9539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

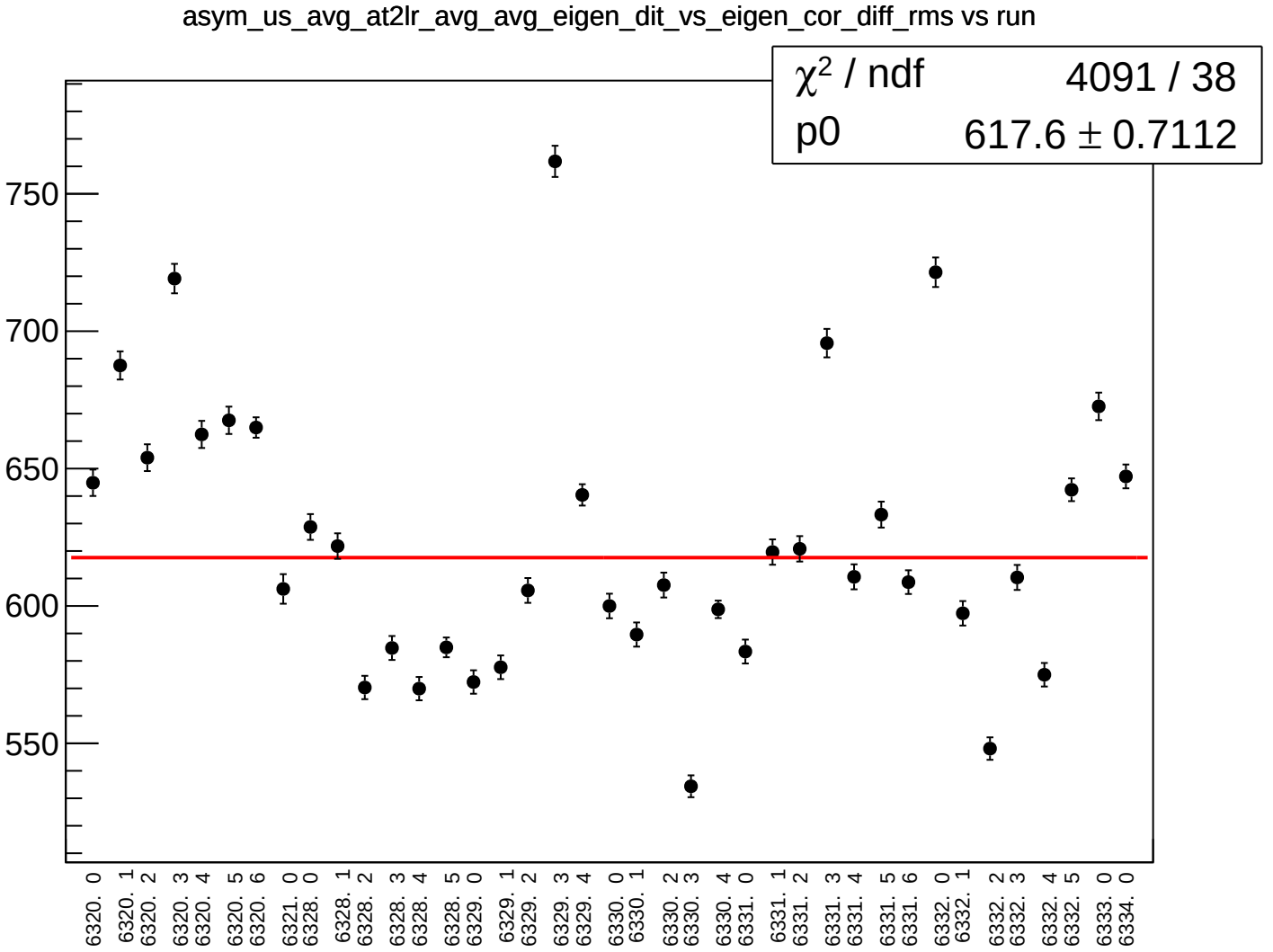

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4091 / 38
p0 617.6 ± 0.7112
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

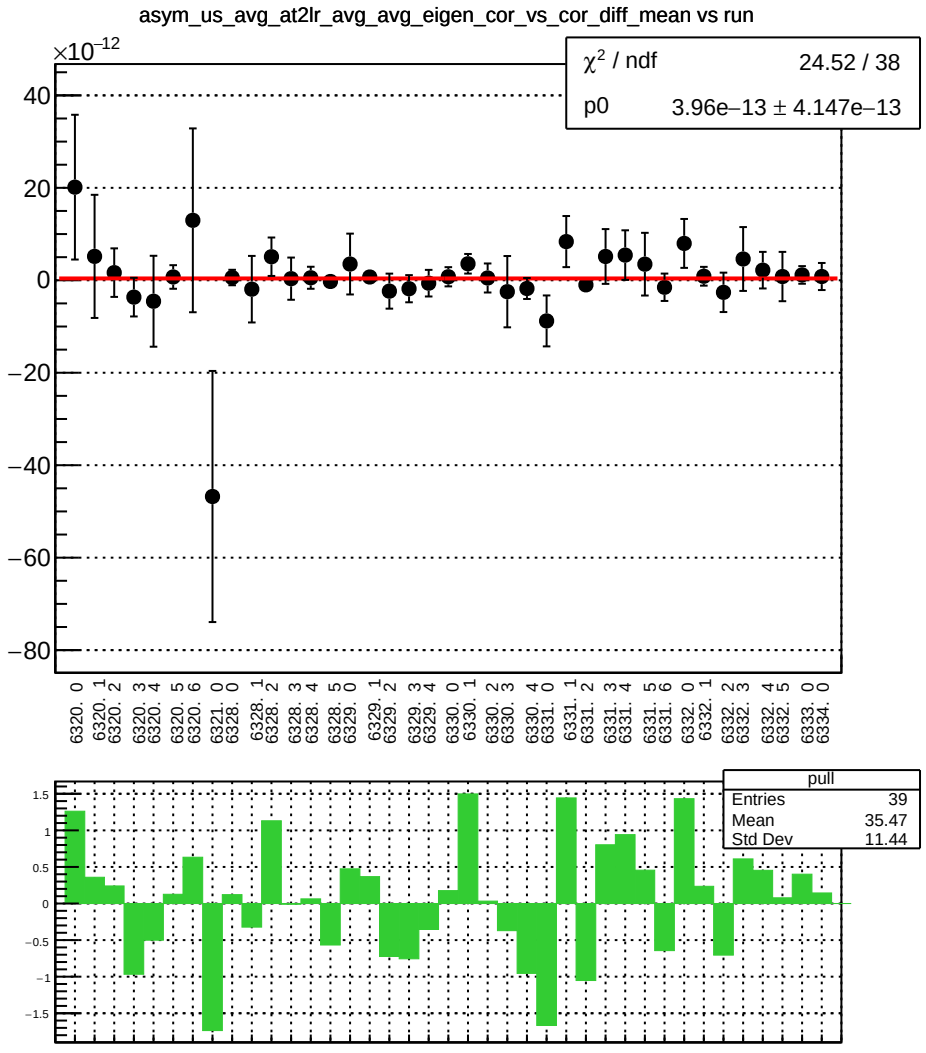
asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

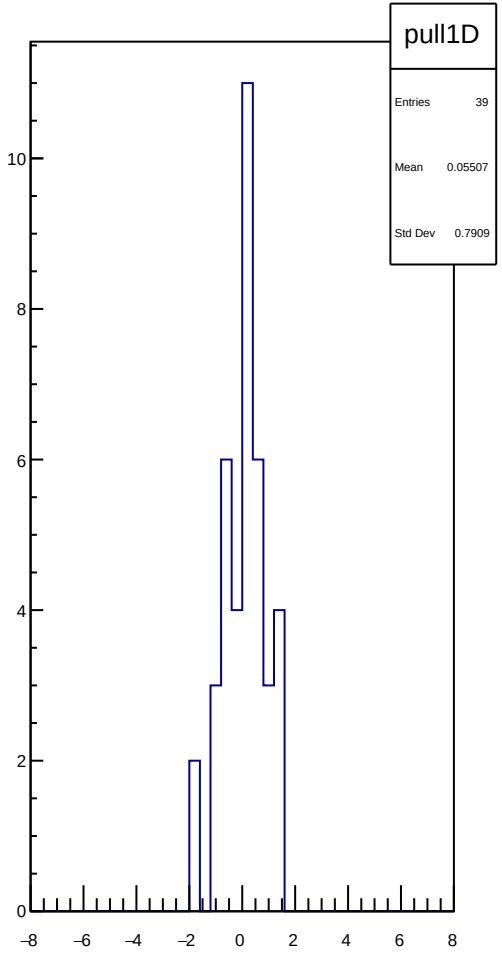


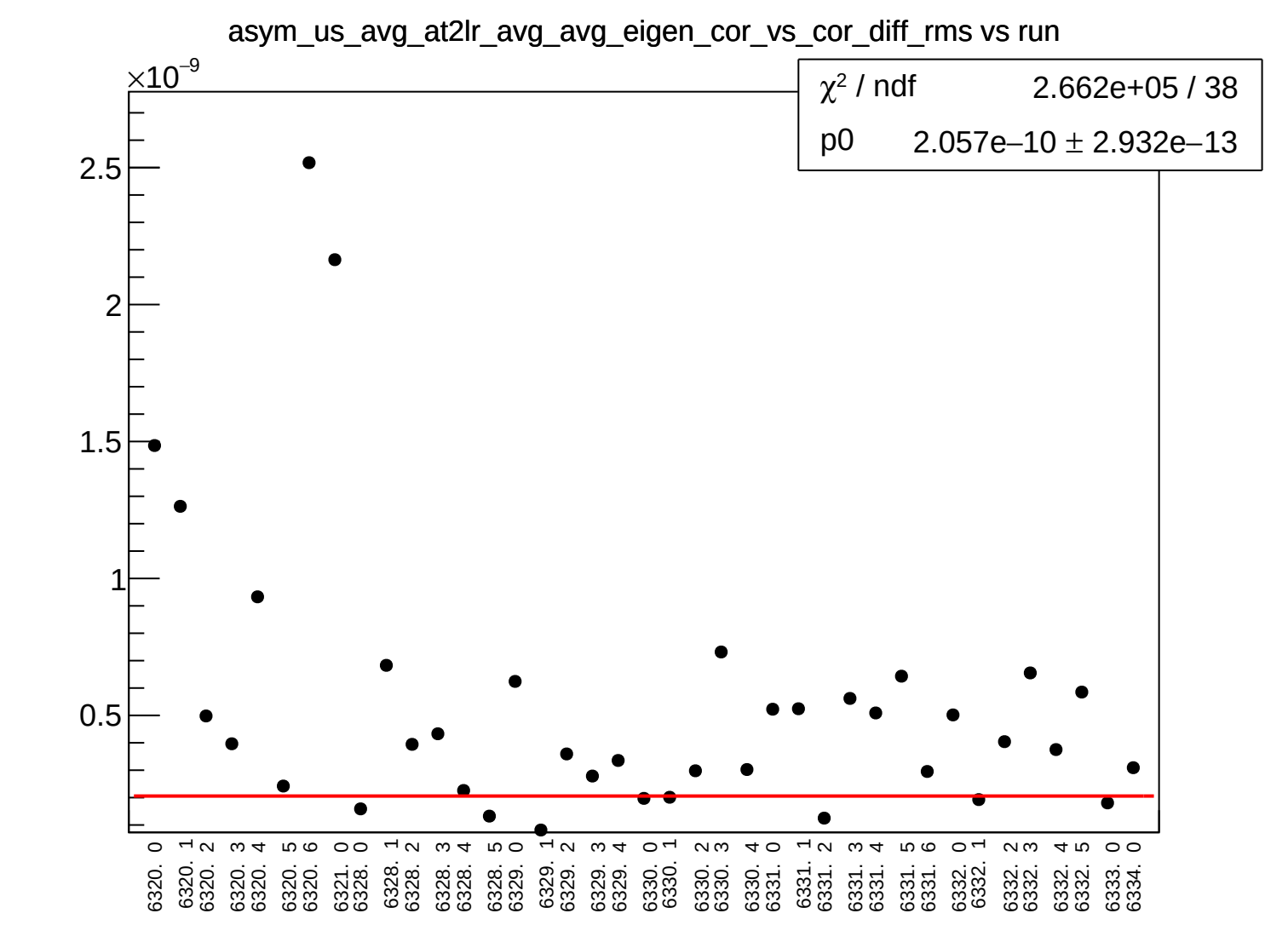


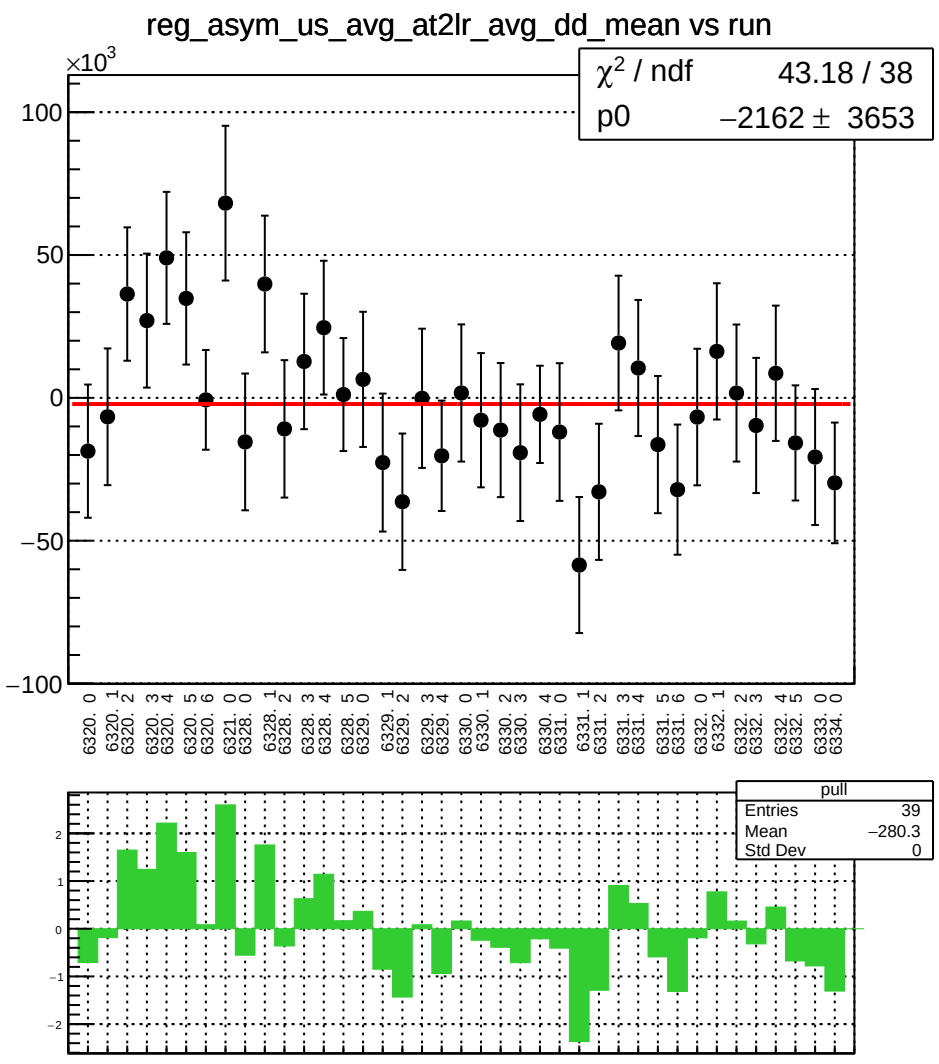


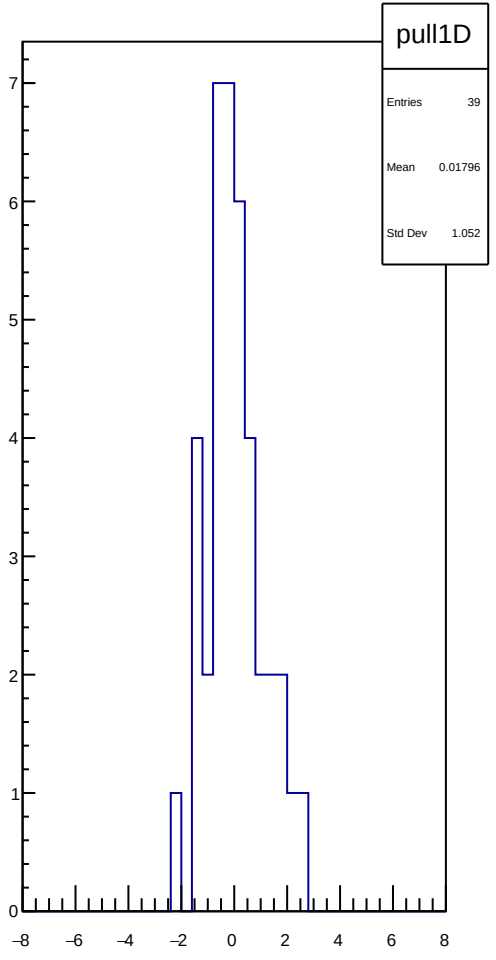

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4091 / 38
p0 617.6 ± 0.7112
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

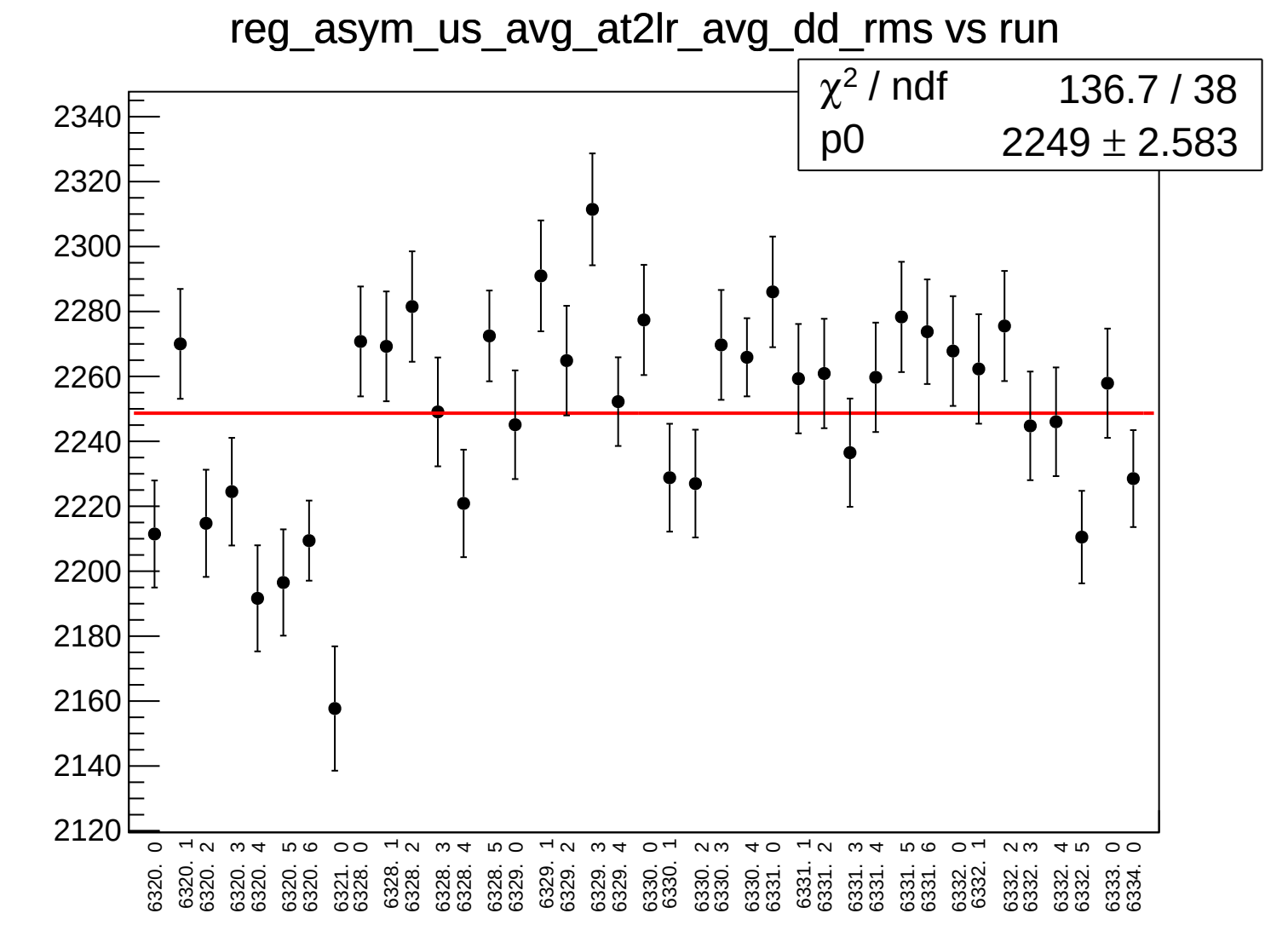

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.52 / 38
p0 3.96e−13 ± 4.147e−13
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.47
Std Dev 11.44
1.5
1
0.5
0
−0.5
−1
−1.5

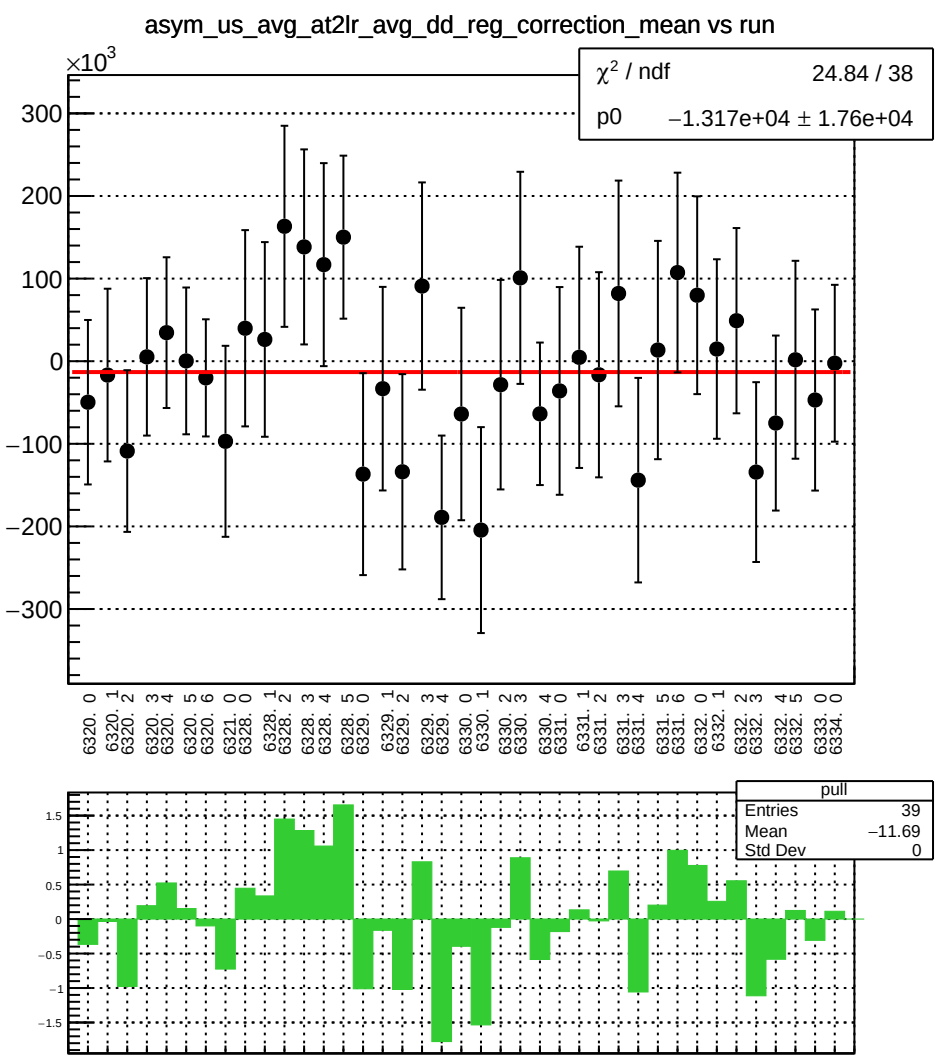

pull1D
Entries 39
Mean 0.05507
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

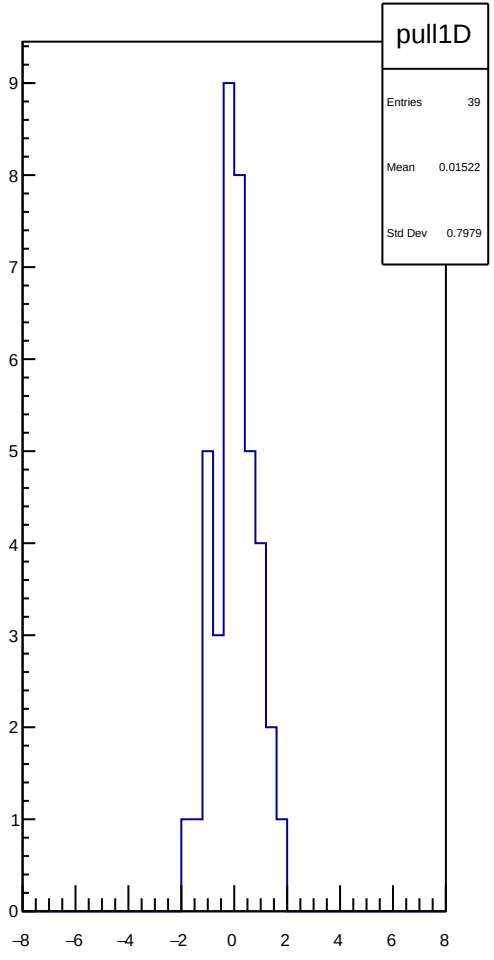

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.662e+05 / 38
p0 2.057e−10 ± 2.932e−13
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

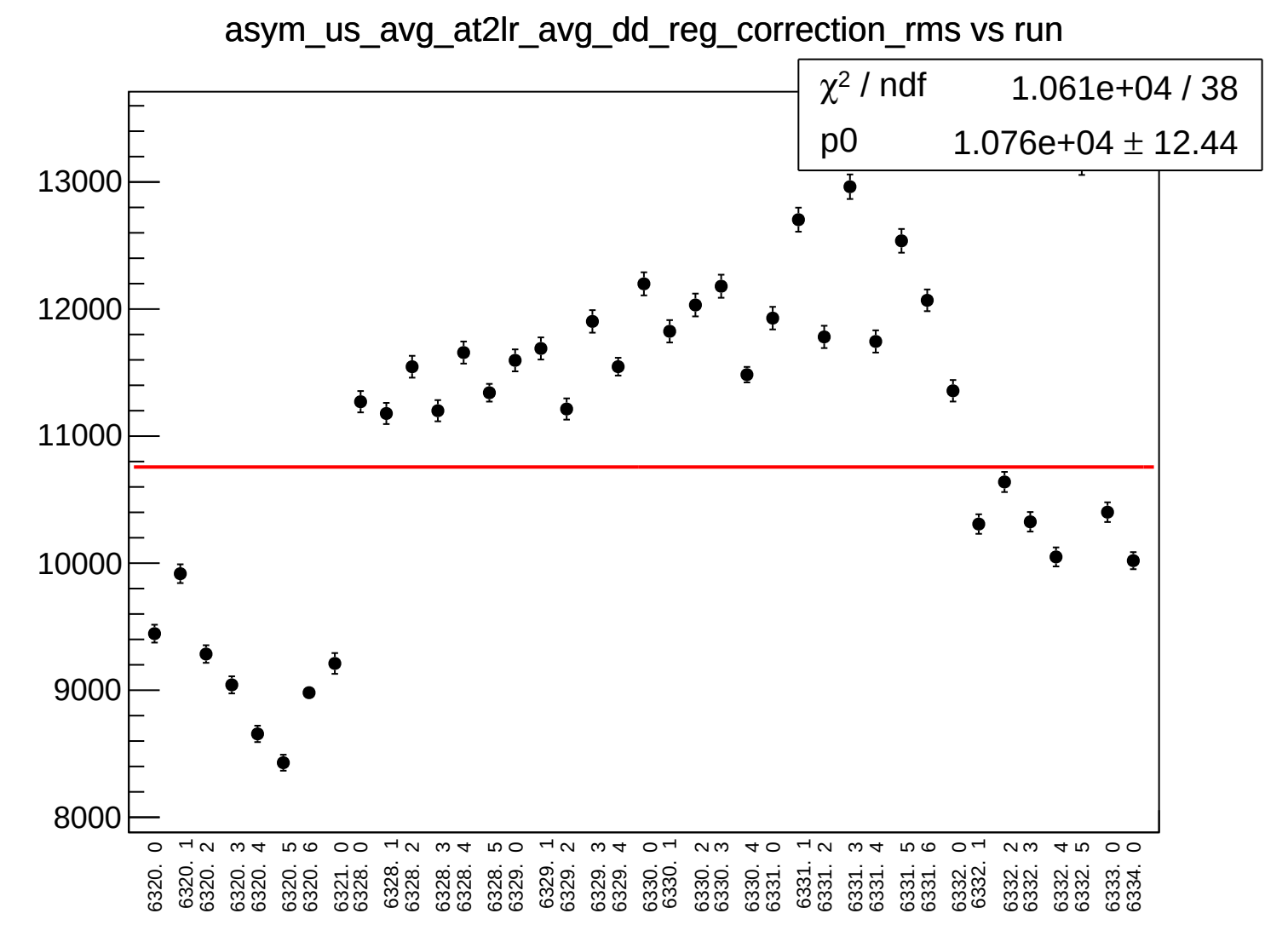

reg_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 43.18 / 38
p0 −2162 ± 3653
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −280.3
Std Dev 0
2
1
0
−1
−2

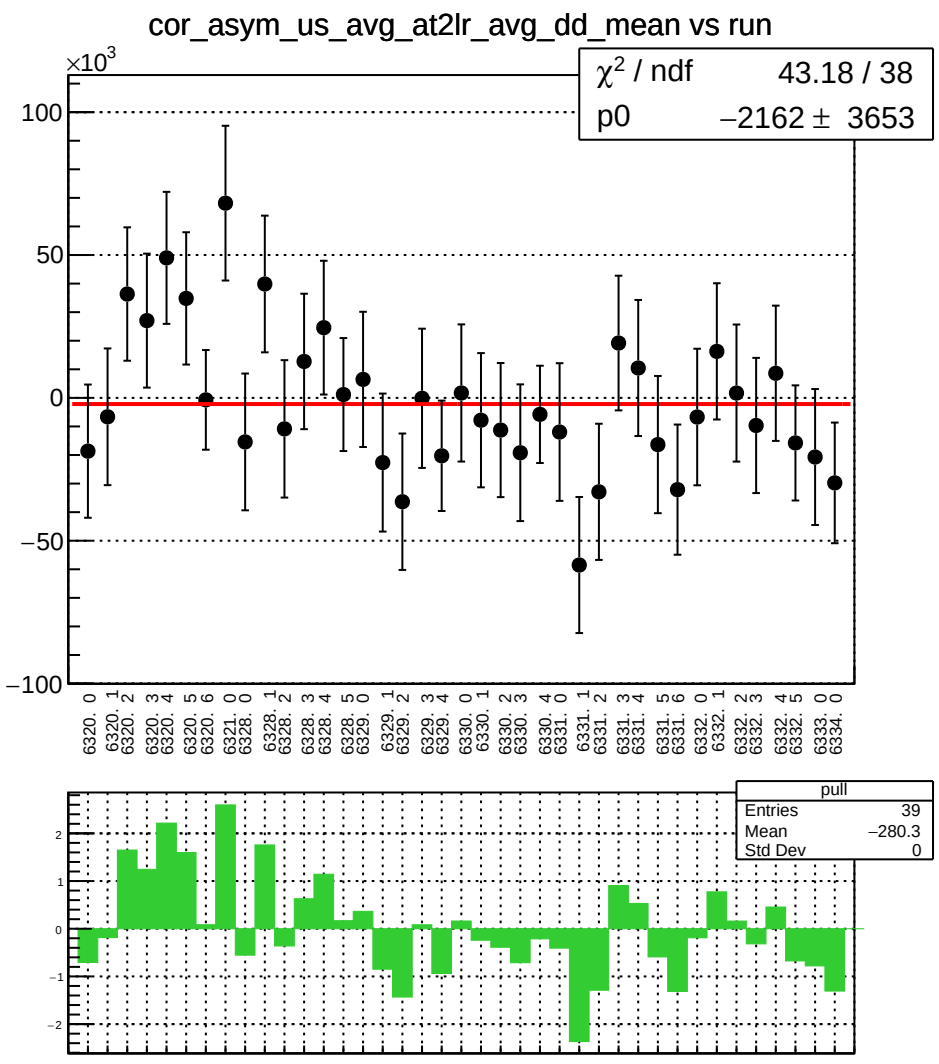

pull1D
Entries 39
Mean 0.01796
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

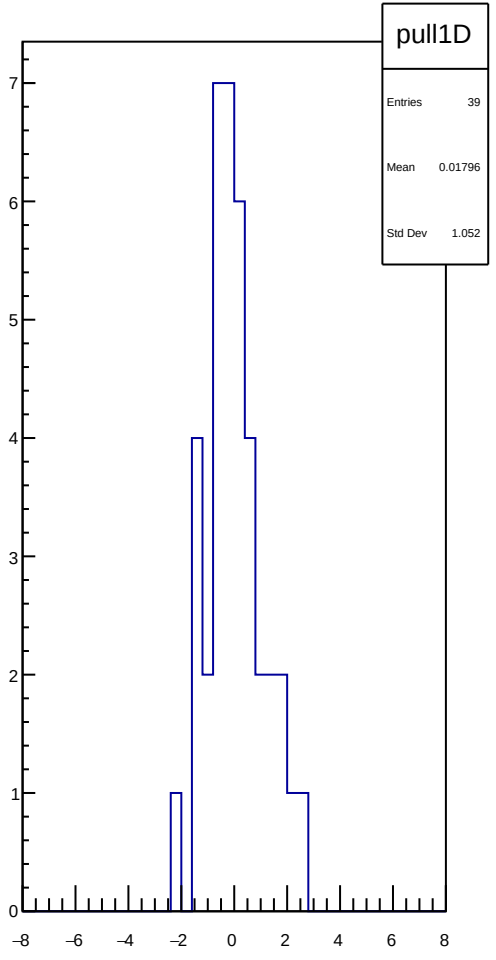

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 136.7 / 38
p0 2249 ± 2.583
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

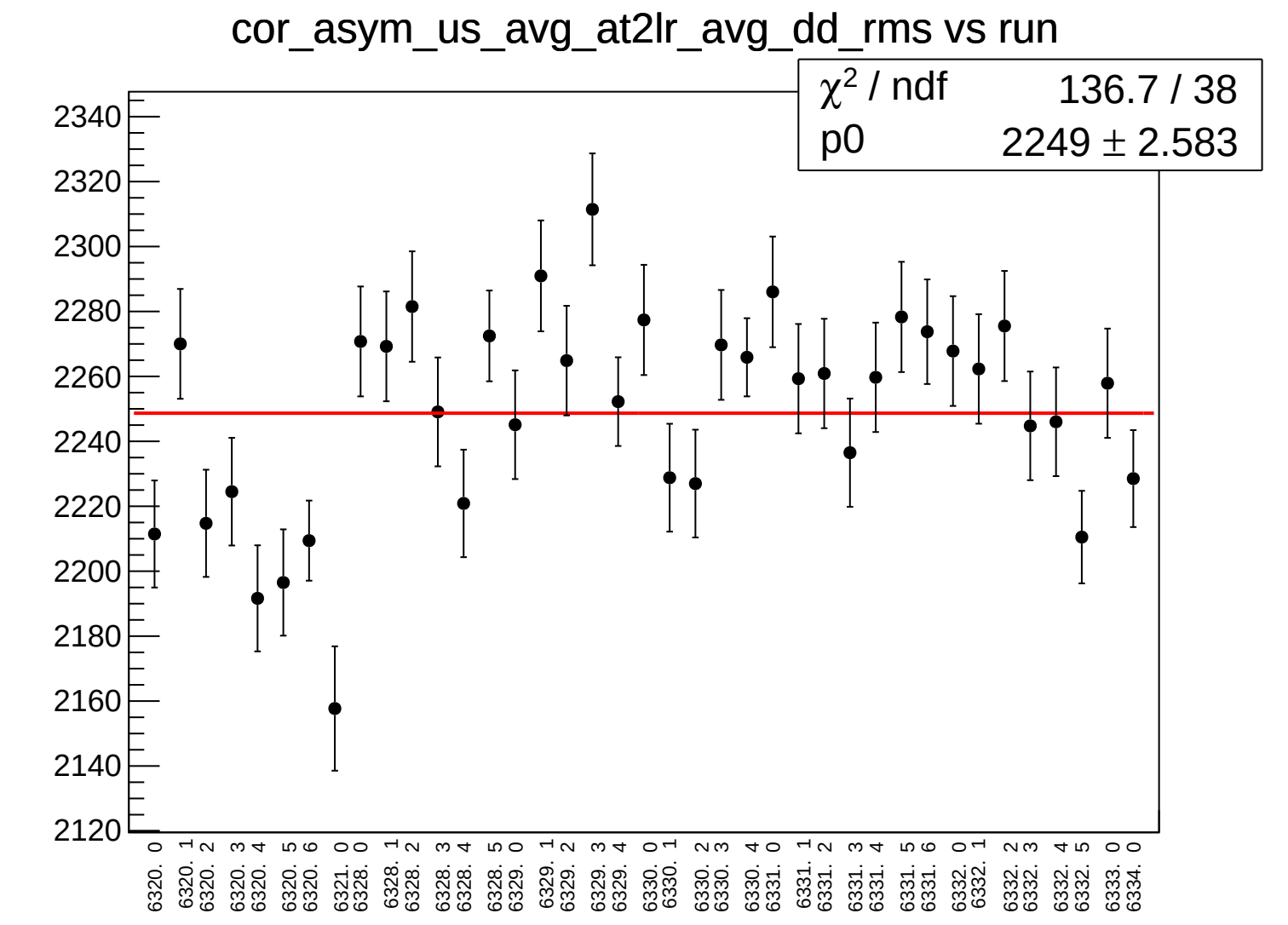

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.84 / 38
p0 −1.317e+04 ± 1.76e+04
pull
Entries 39
Mean −11.69
Std Dev 0

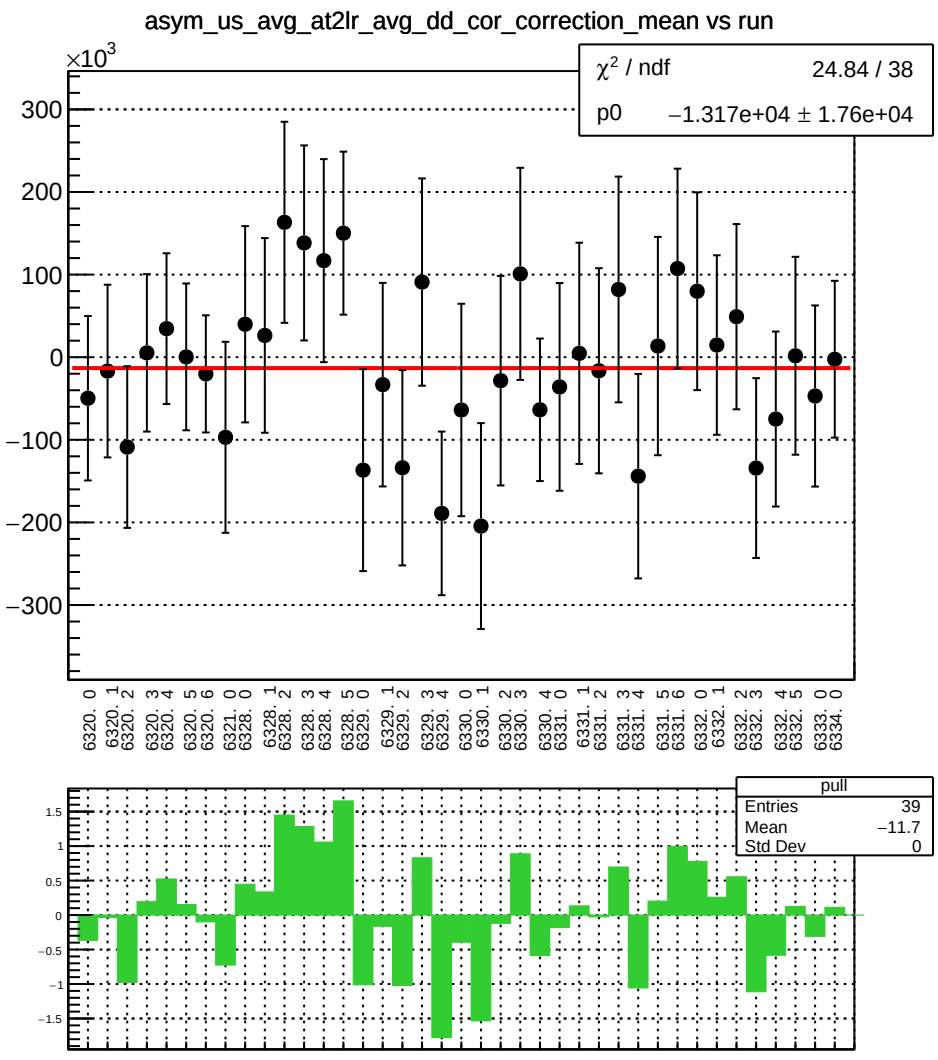

pull1D
Entries 39
Mean 0.01522
Std Dev 0.7979

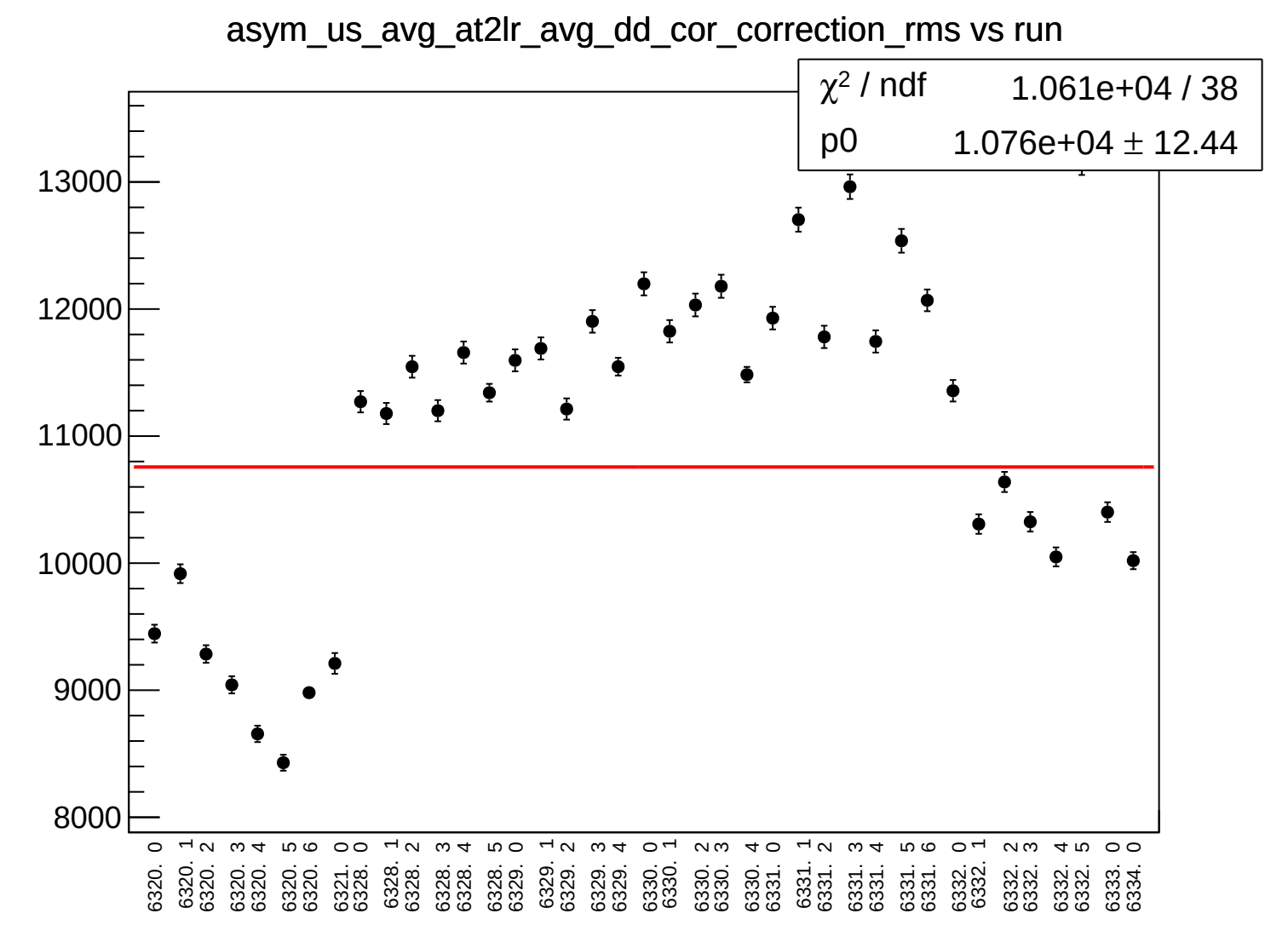

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.061e+04 / 38
p0 1.076e+04 ± 12.44
13000
12000
11000
10000
9000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

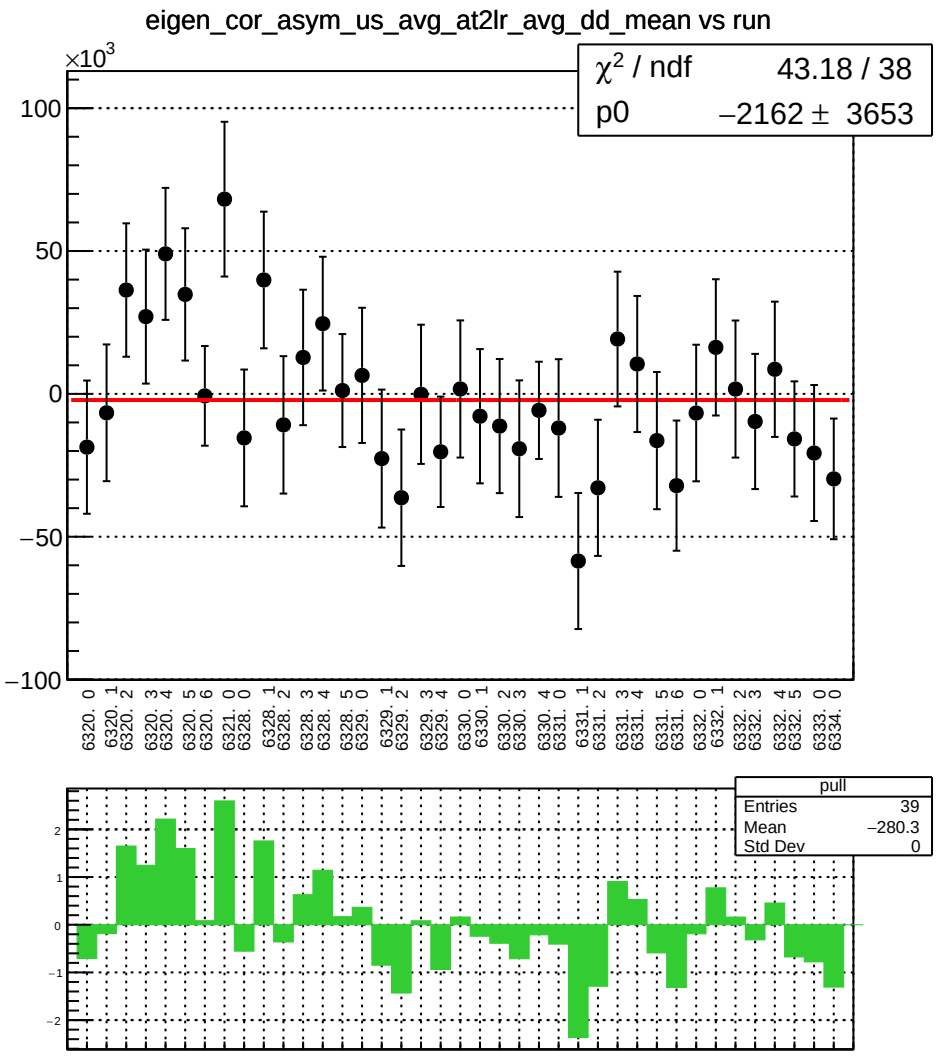

cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 43.18 / 38
p0 −2162 ± 3653
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −280.3
Std Dev 0
2
1
0
−1
−2

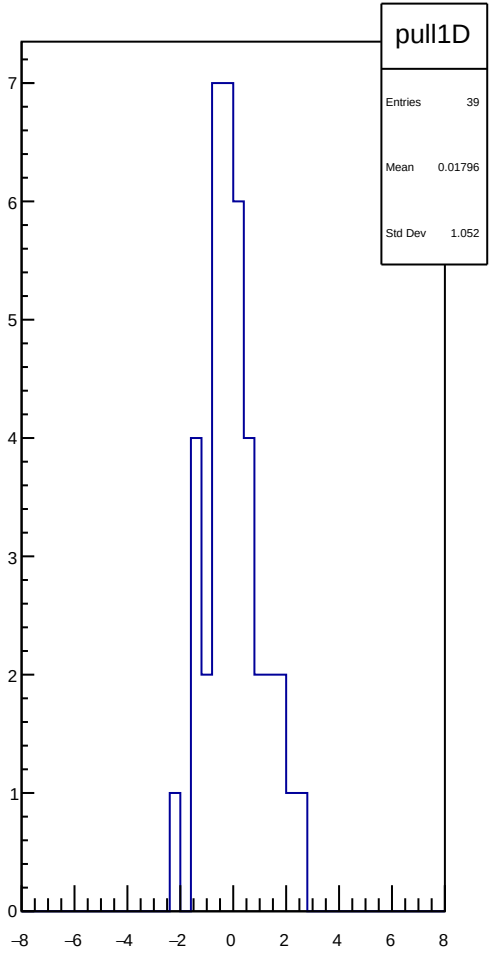

pull1D
Entries 39
Mean 0.01796
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

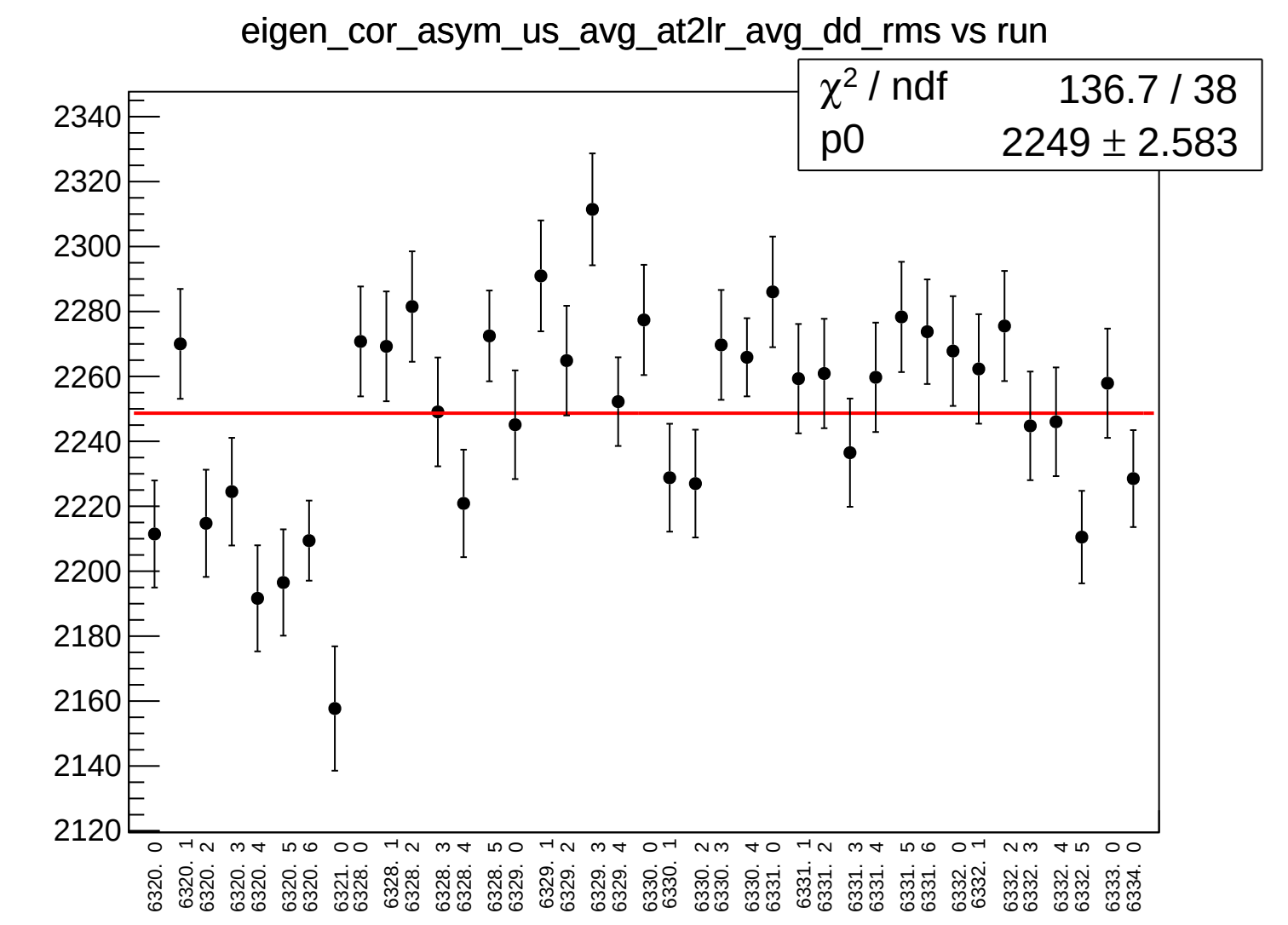

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 136.7 / 38
p0 2249 ± 2.583
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

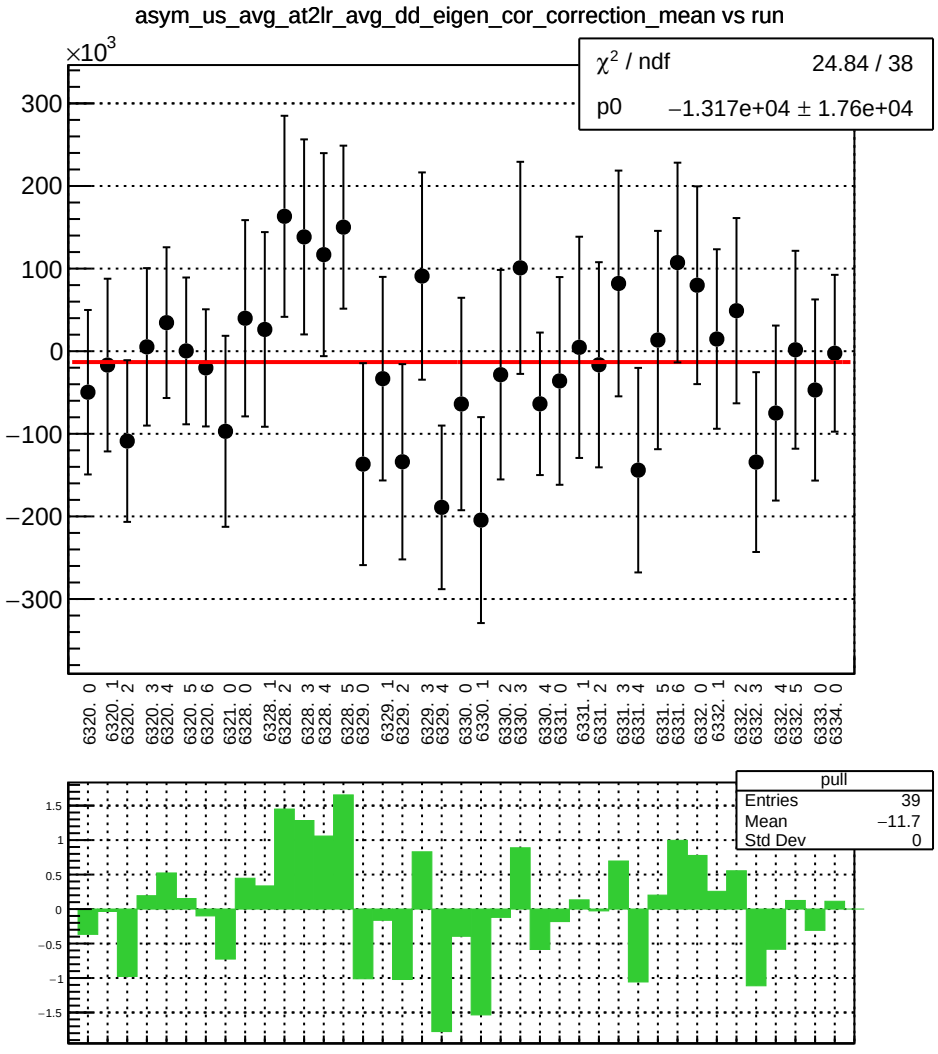

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.84 / 38
p0 −1.317e+04 ± 1.76e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01521
Std Dev 0.7979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

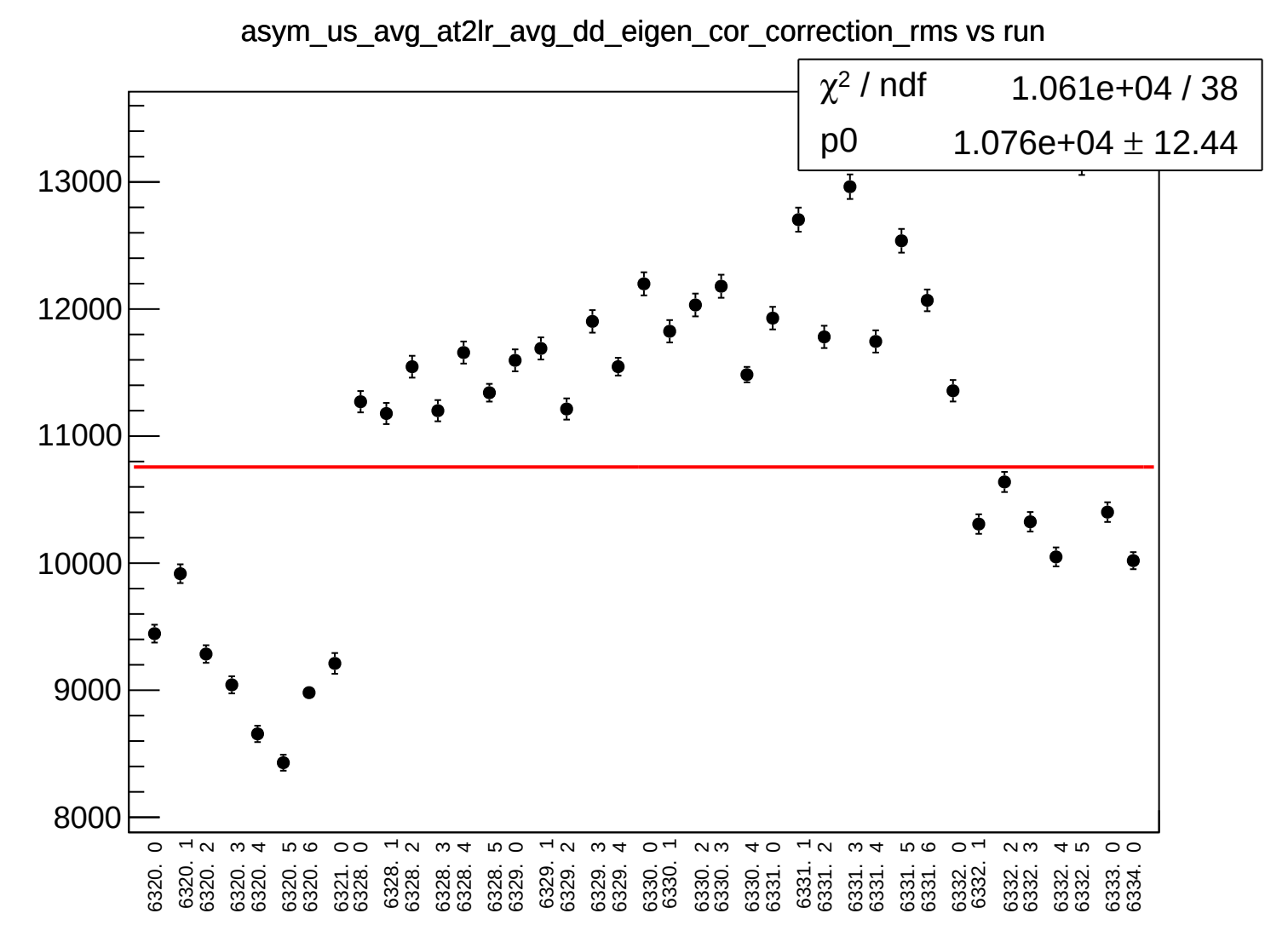

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 38
p0 1.076e+04 ± 12.44
13000
12000
11000
10000
9000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

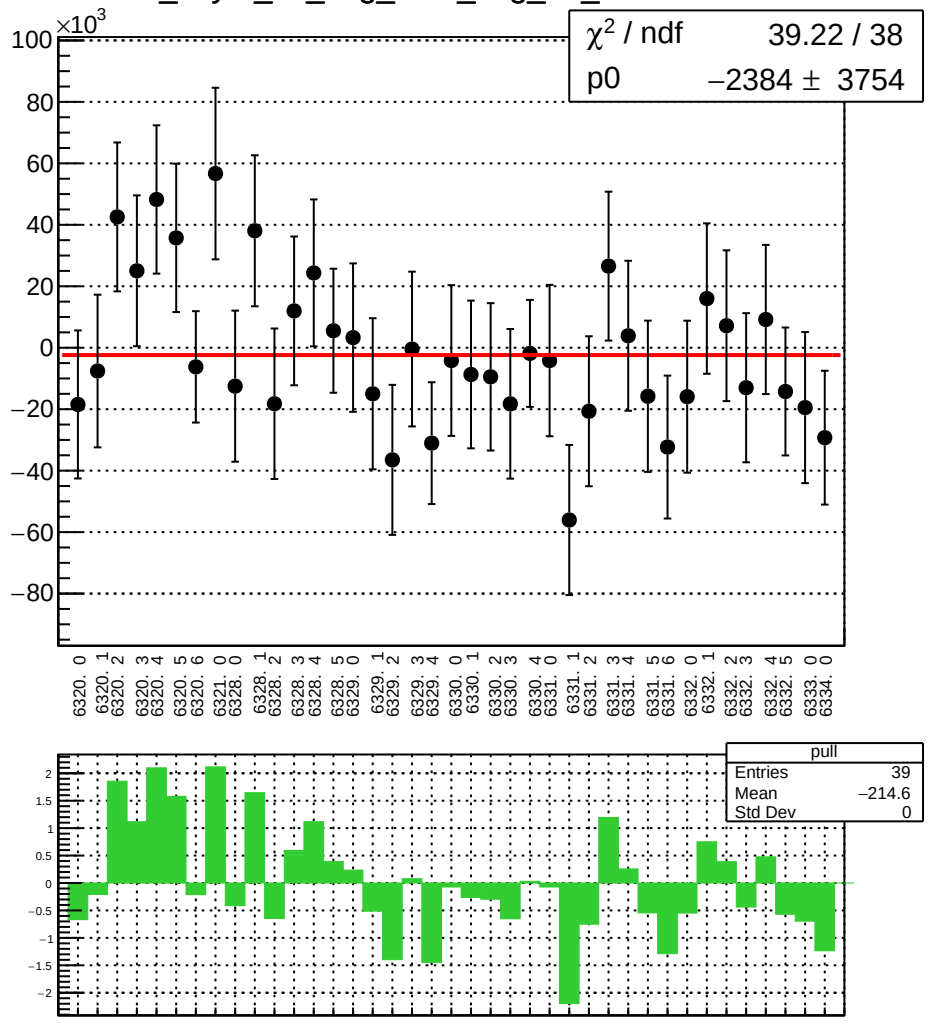

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 43.18 / 38
p0 −2162 ± 3653
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −280.3
Std Dev 0
2
1
0
−1
−2

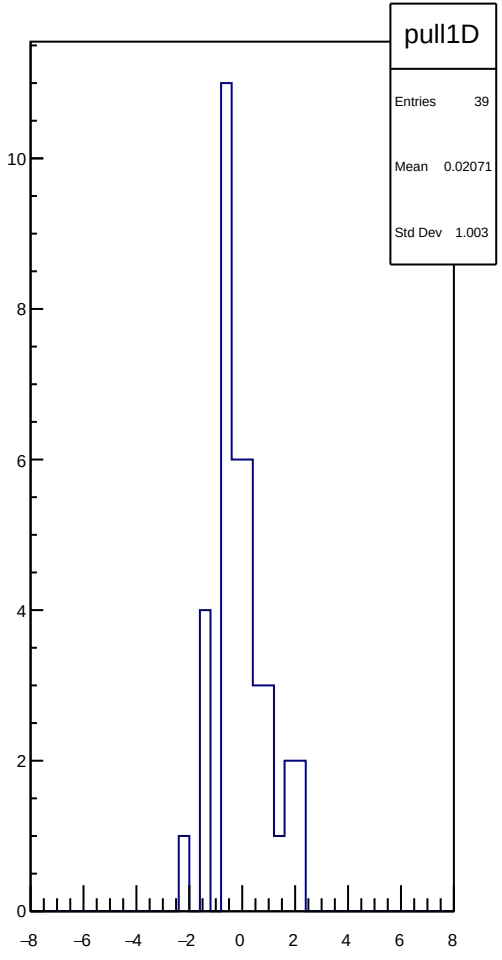

pull1D
Entries 39
Mean 0.01796
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

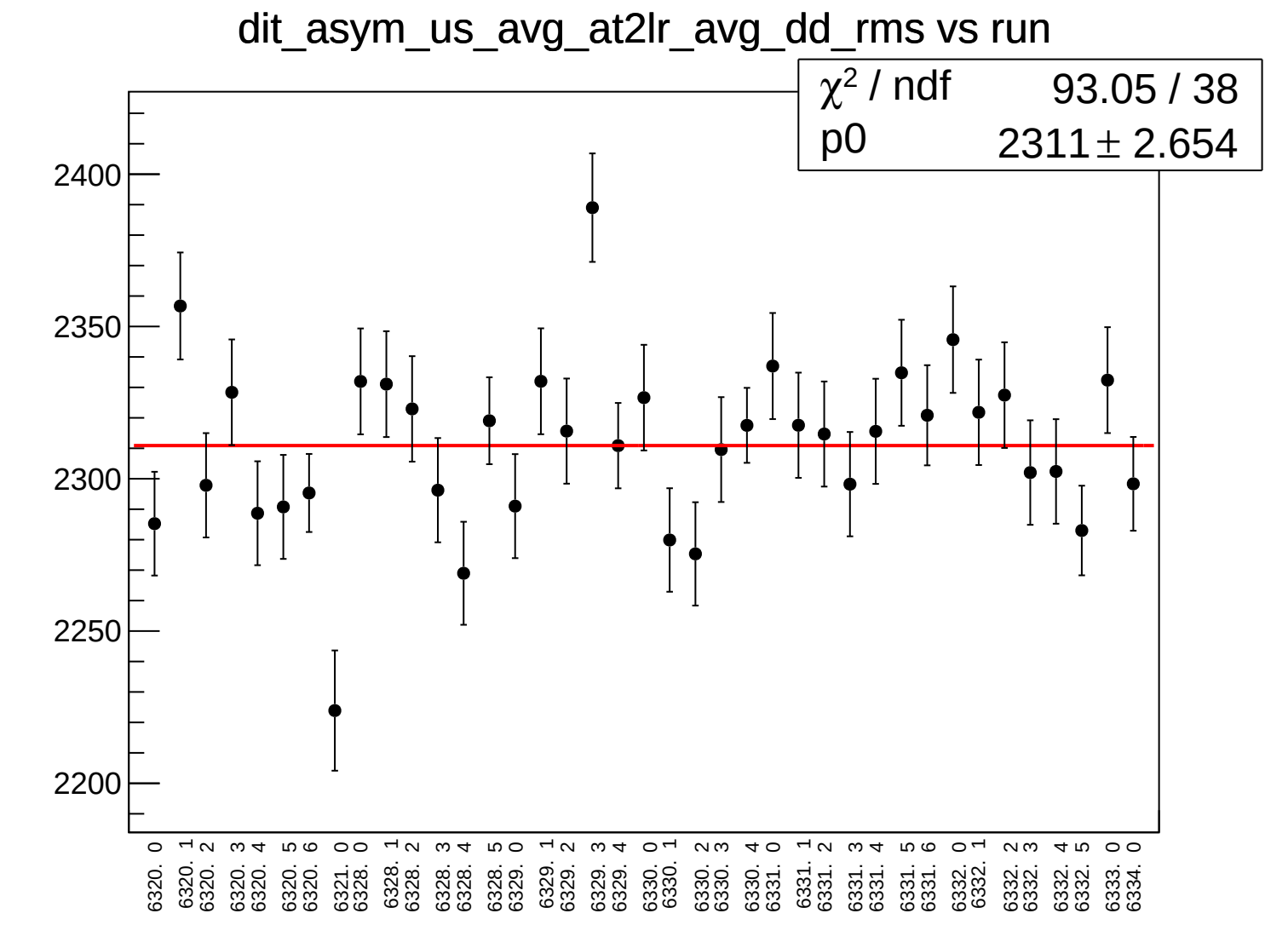

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 136.7 / 38
p0 2249 ± 2.583
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

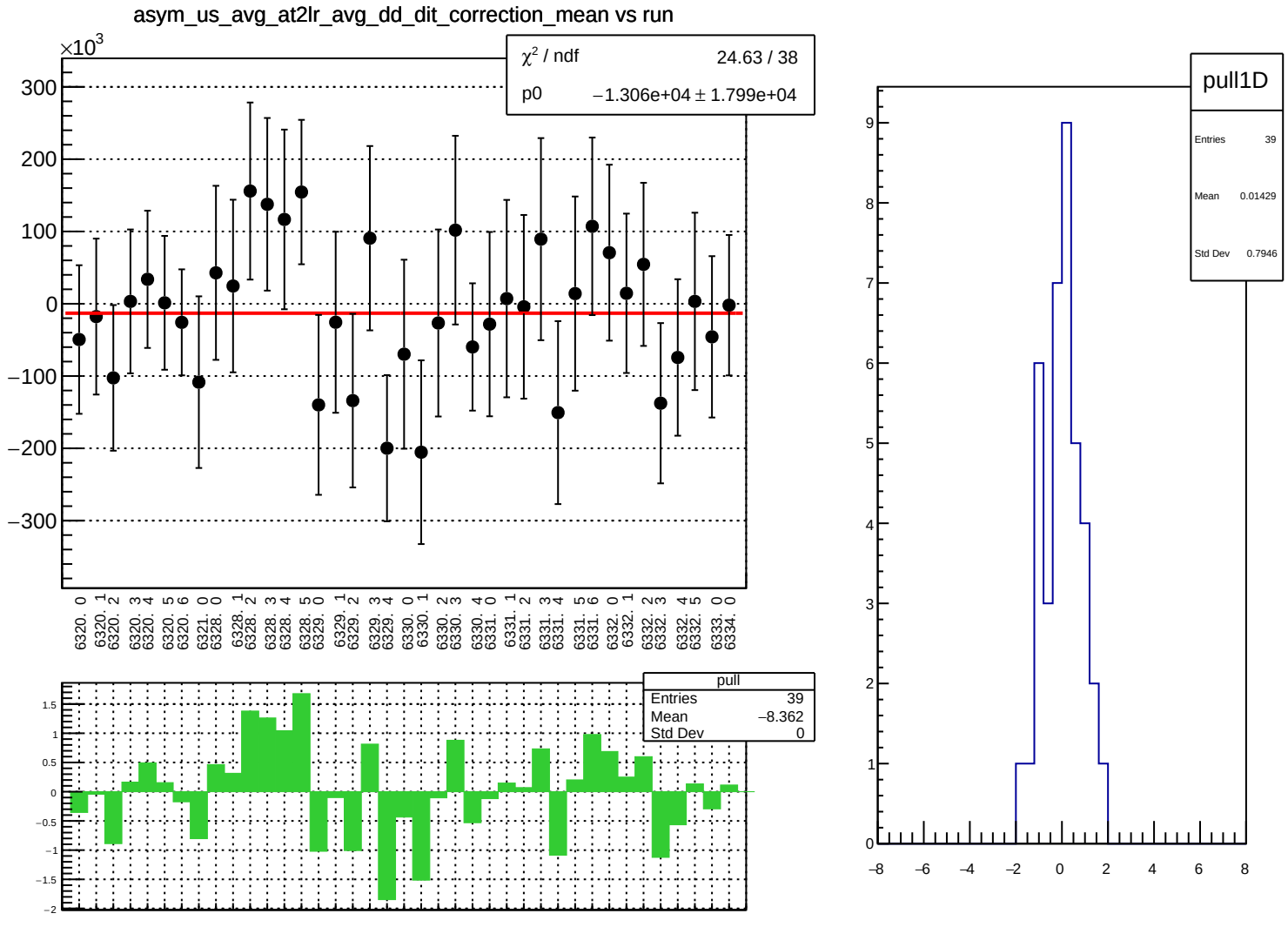

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.84 / 38
p0 −1.317e+04 ± 1.76e+04
pull
Entries 39
Mean −11.7
Std Dev 0
pull1D
Entries 39
Mean 0.01521
Std Dev 0.7979

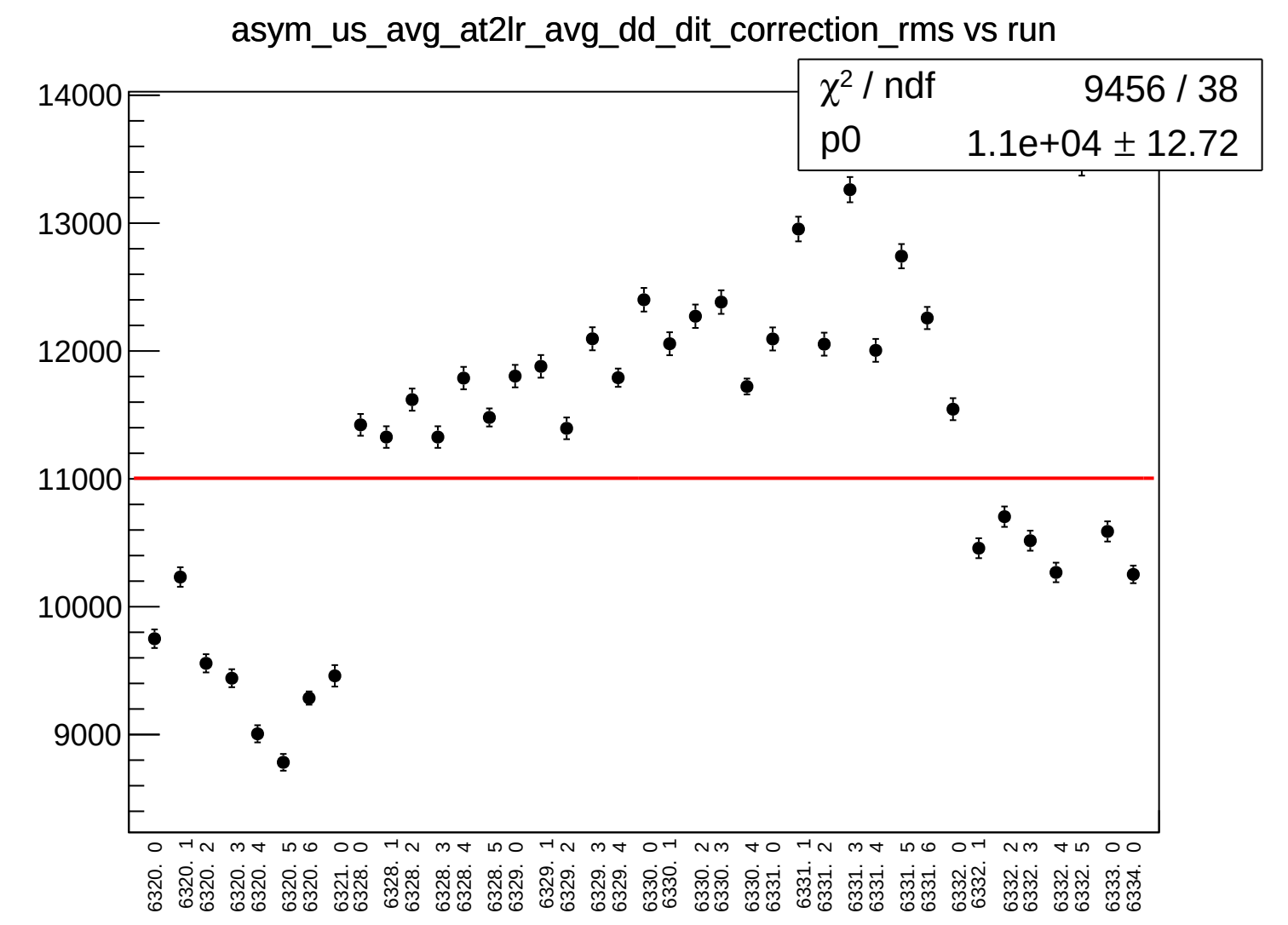

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 38
p0 1.076e+04 ± 12.44
13000
12000
11000
10000
9000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

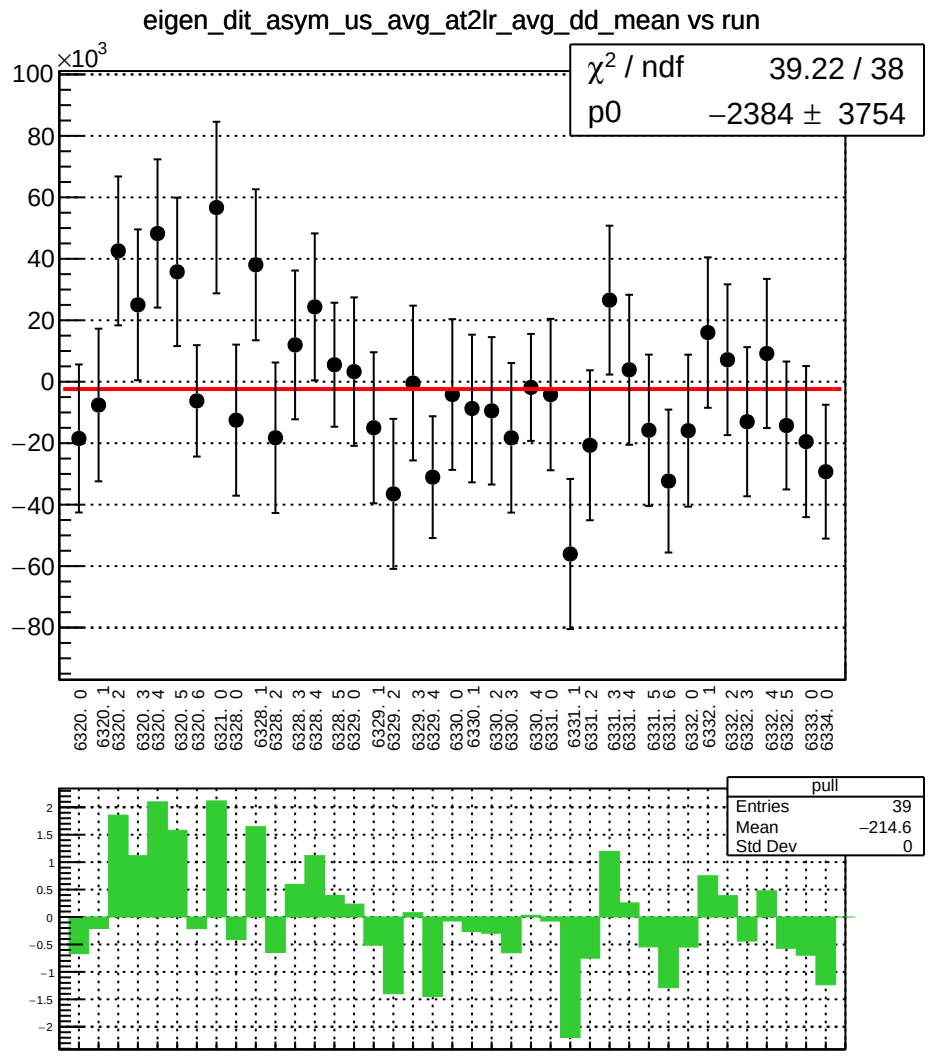

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 39.22 / 38
p0 −2384 ± 3754
pull
Entries 39
Mean −214.6
Std Dev 0

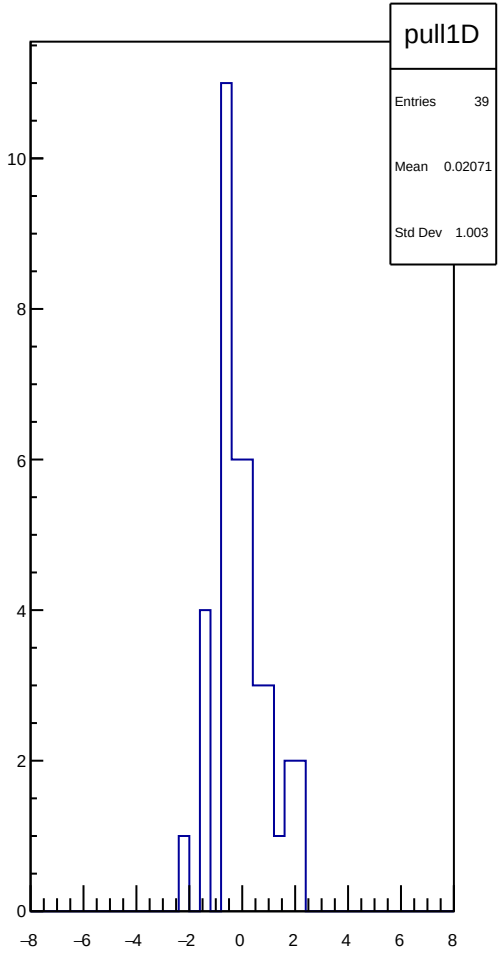

pull1D
Entries 39
Mean 0.02071
Std Dev 1.003

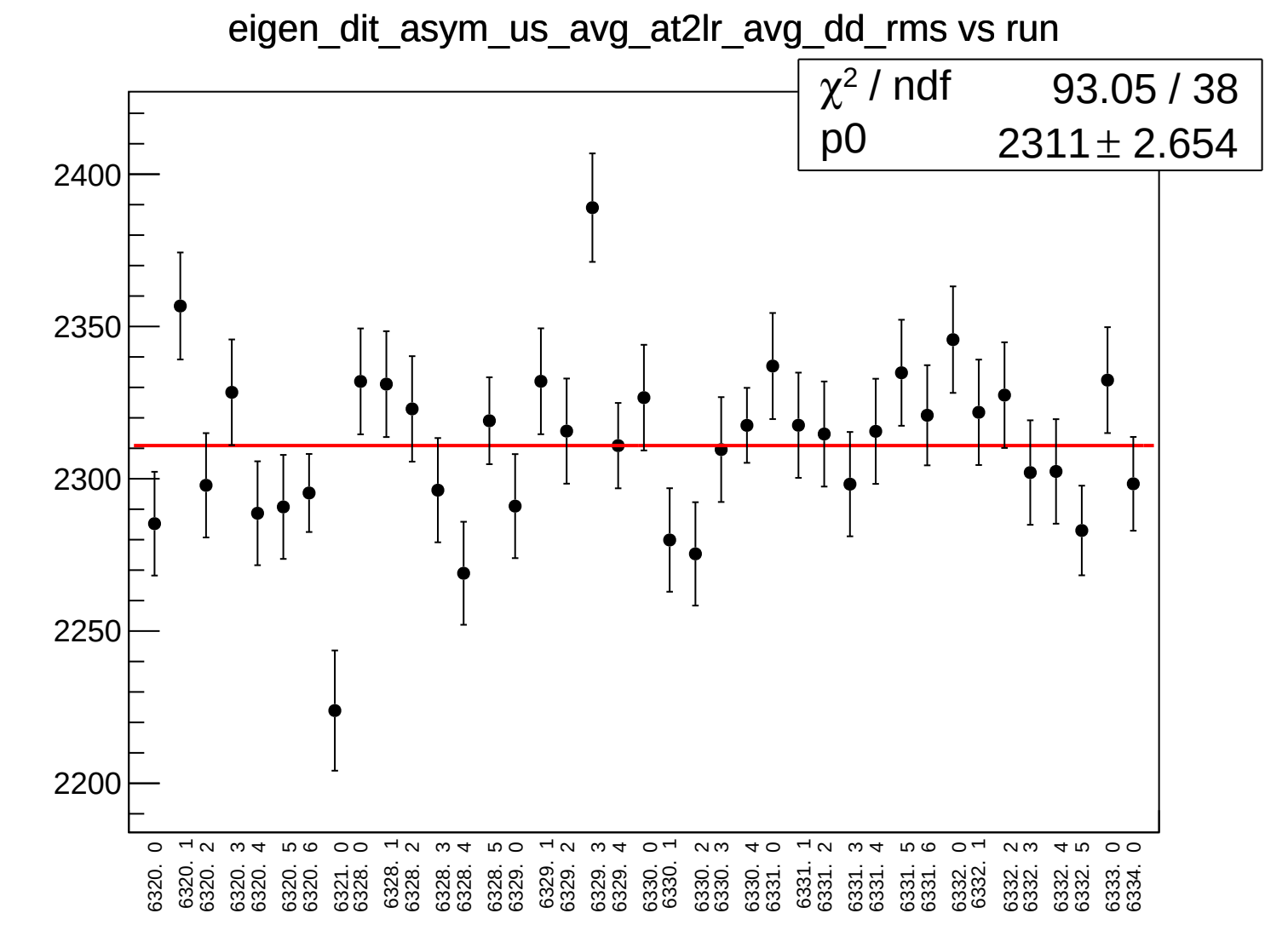

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 93.05 / 38
p0 2311 ± 2.654
2400
2350
2300
2250
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

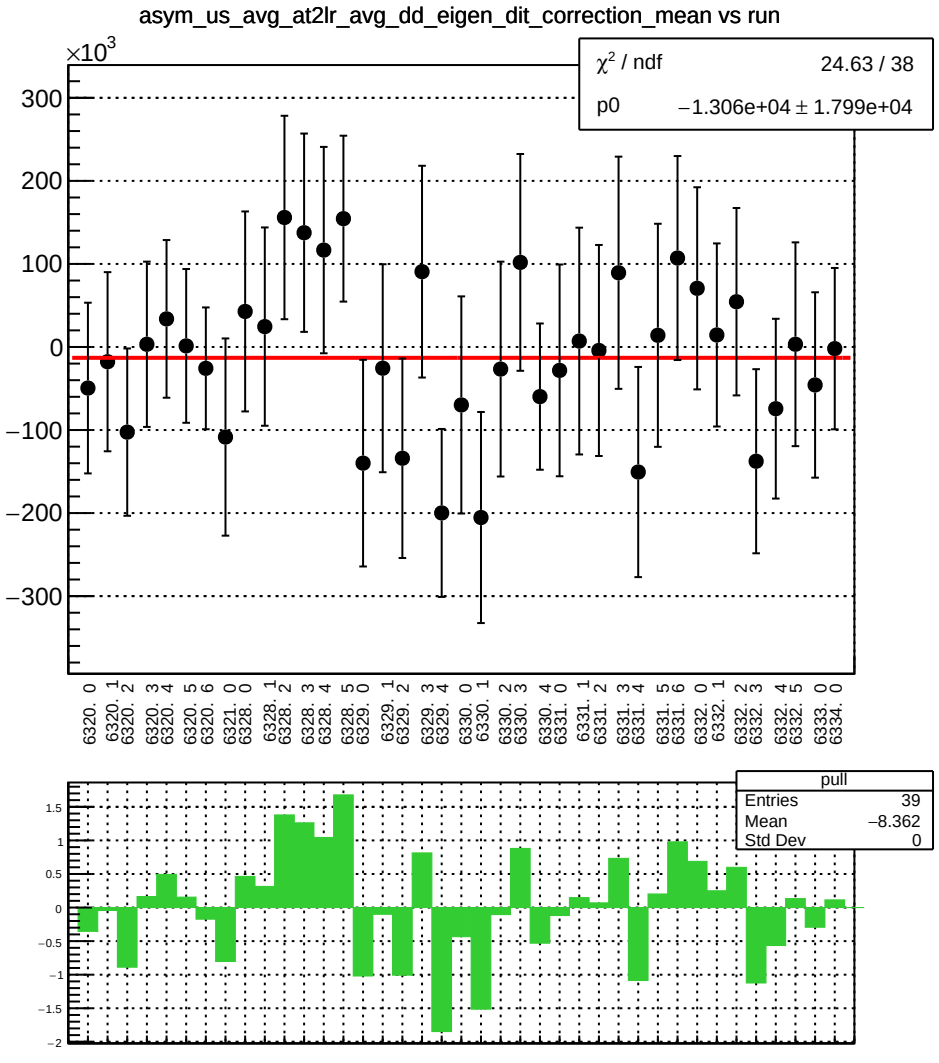

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 −1.306e+04 ± 1.799e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.362
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01429
Std Dev 0.7946
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

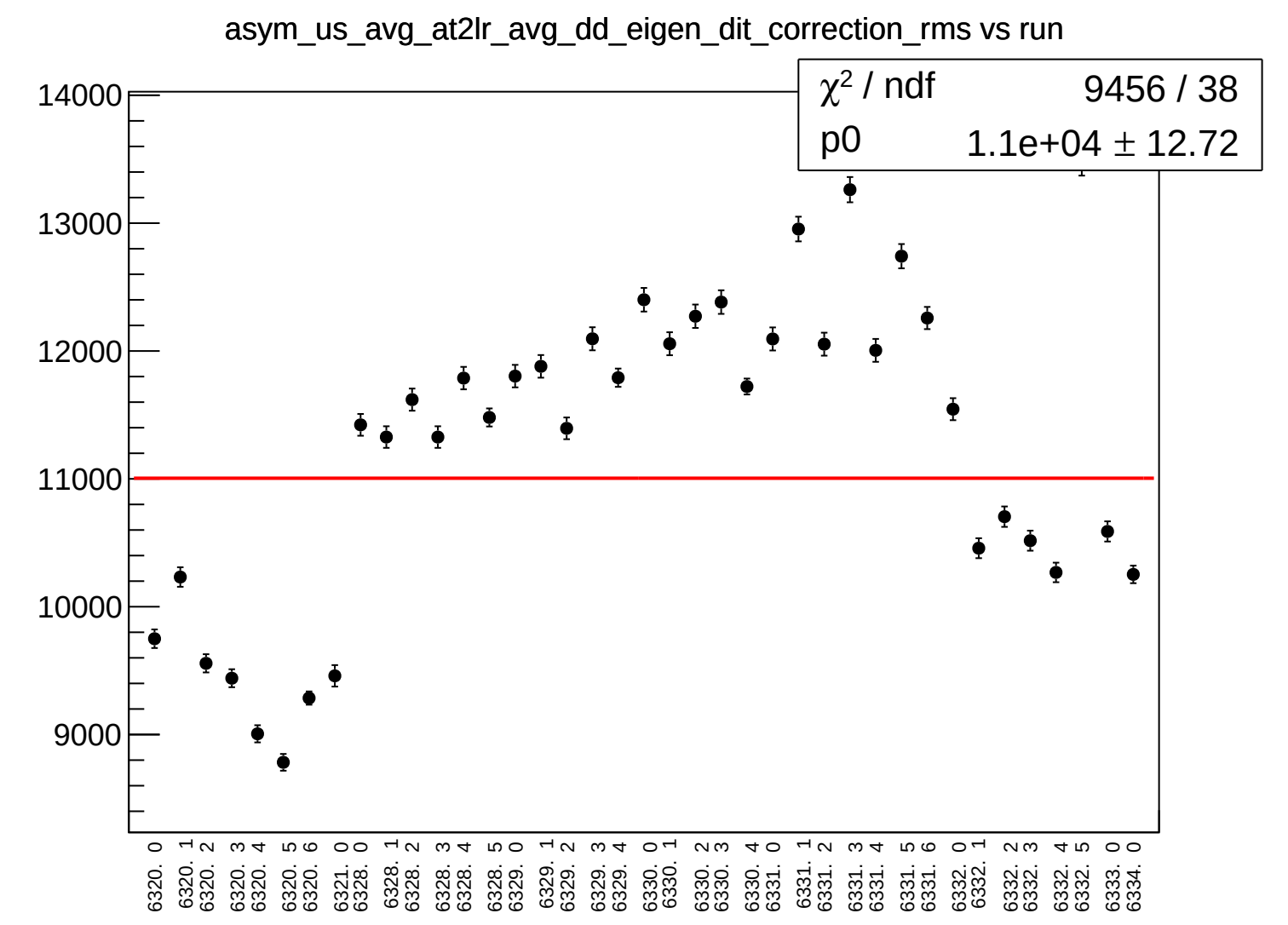

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 9456 / 38
p0 1.1e+04 ± 12.72
14000
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

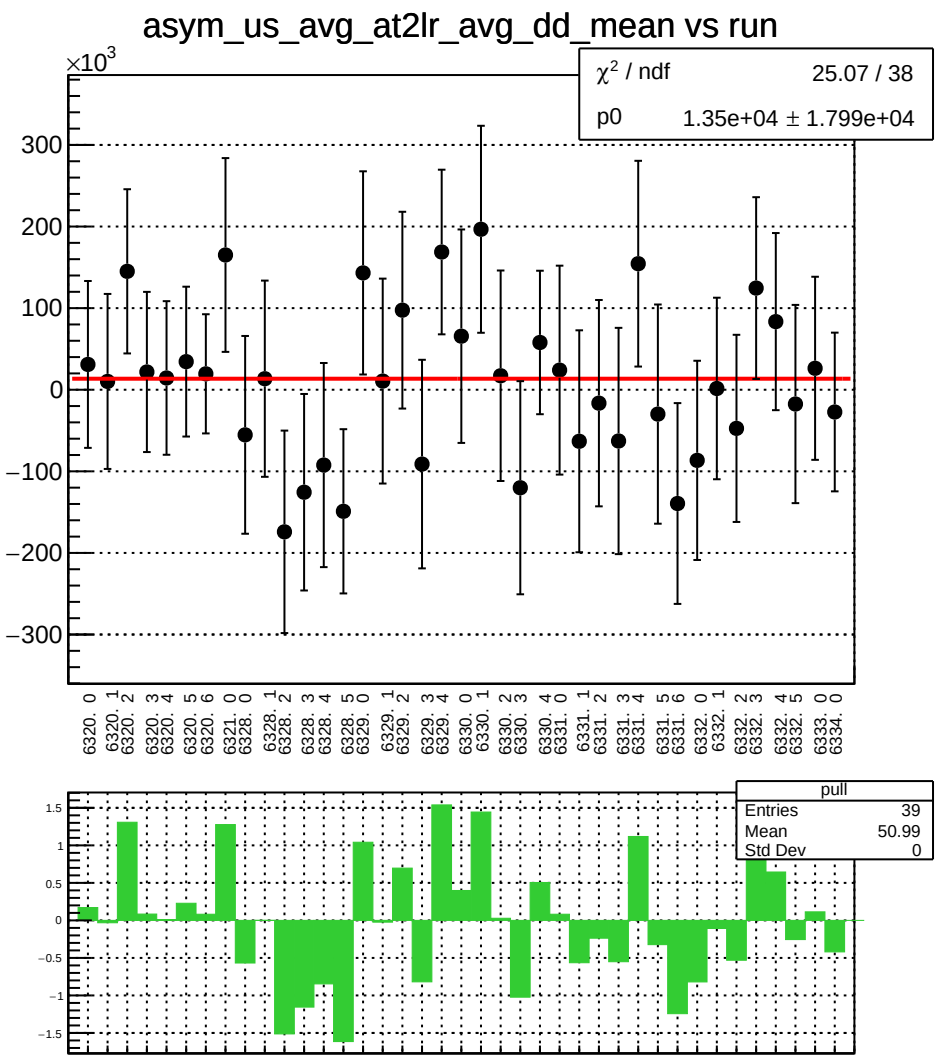

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 39.22 / 38
p0 −2384 ± 3754
pull
Entries 39
Mean −214.6
Std Dev 0

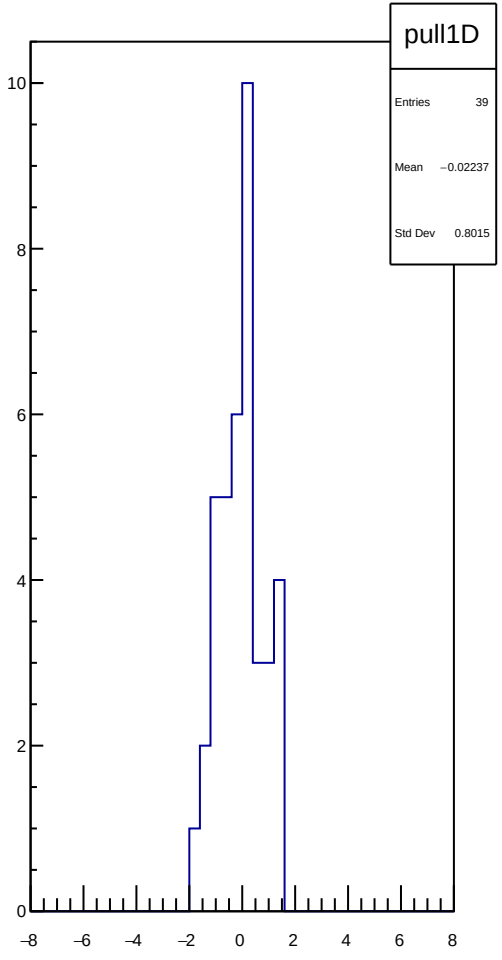

pull1D
Entries 39
Mean 0.02071
Std Dev 1.003

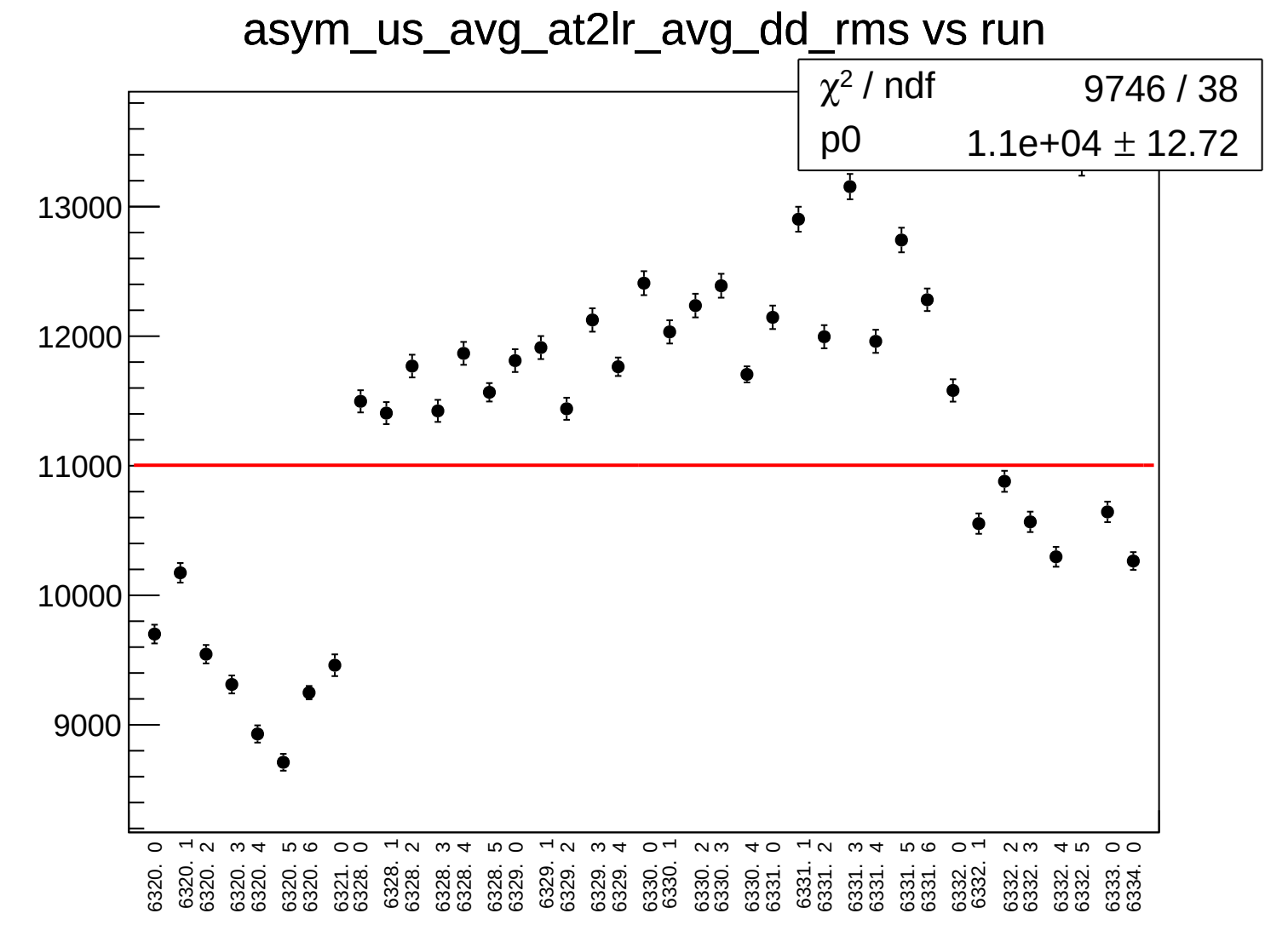

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 93.05 / 38
p0 2311 ± 2.654
2400
2350
2300
2250
2200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

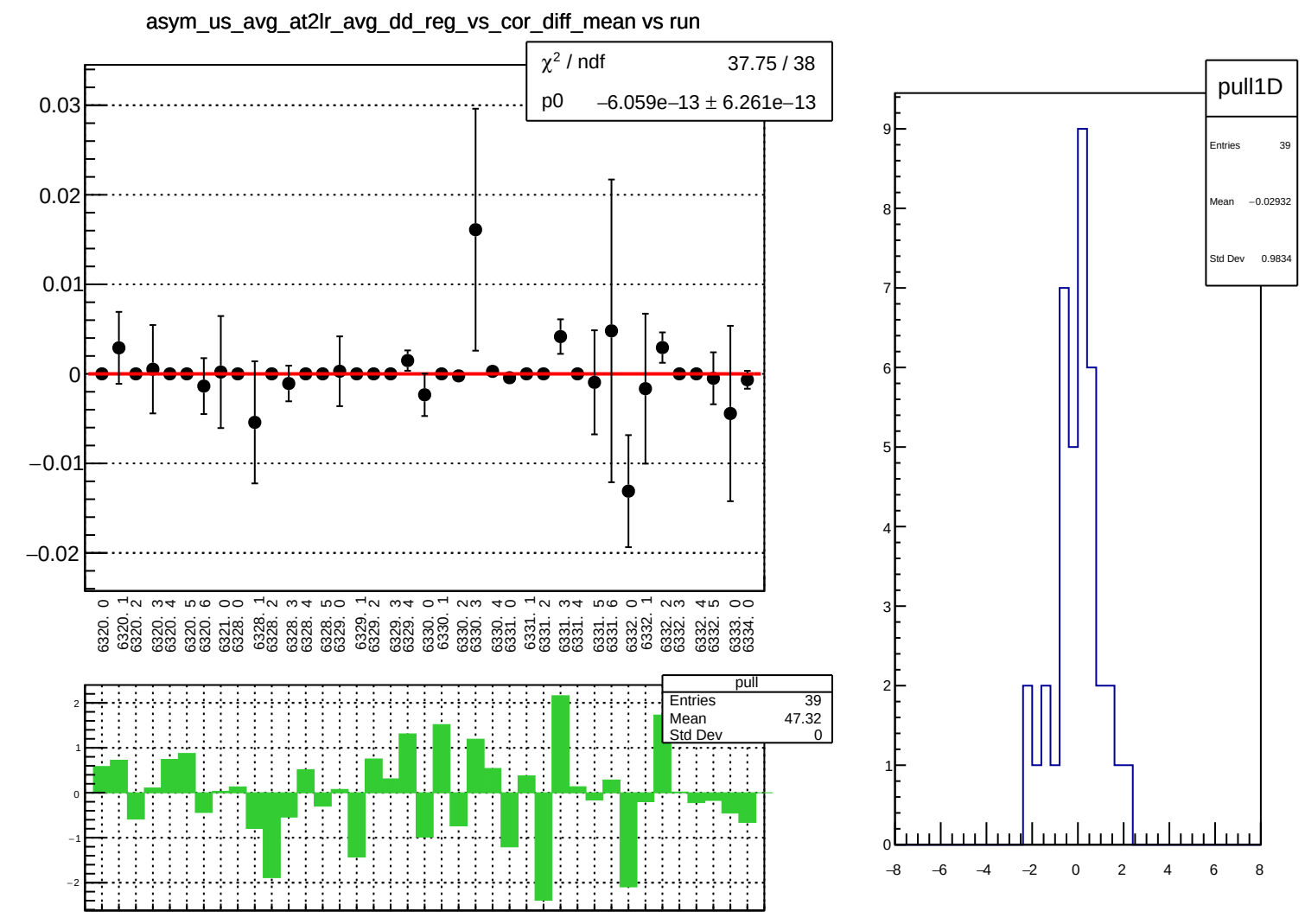

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.63 / 38
p0 −1.306e+04 ± 1.799e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.362
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01429
Std Dev 0.7946
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

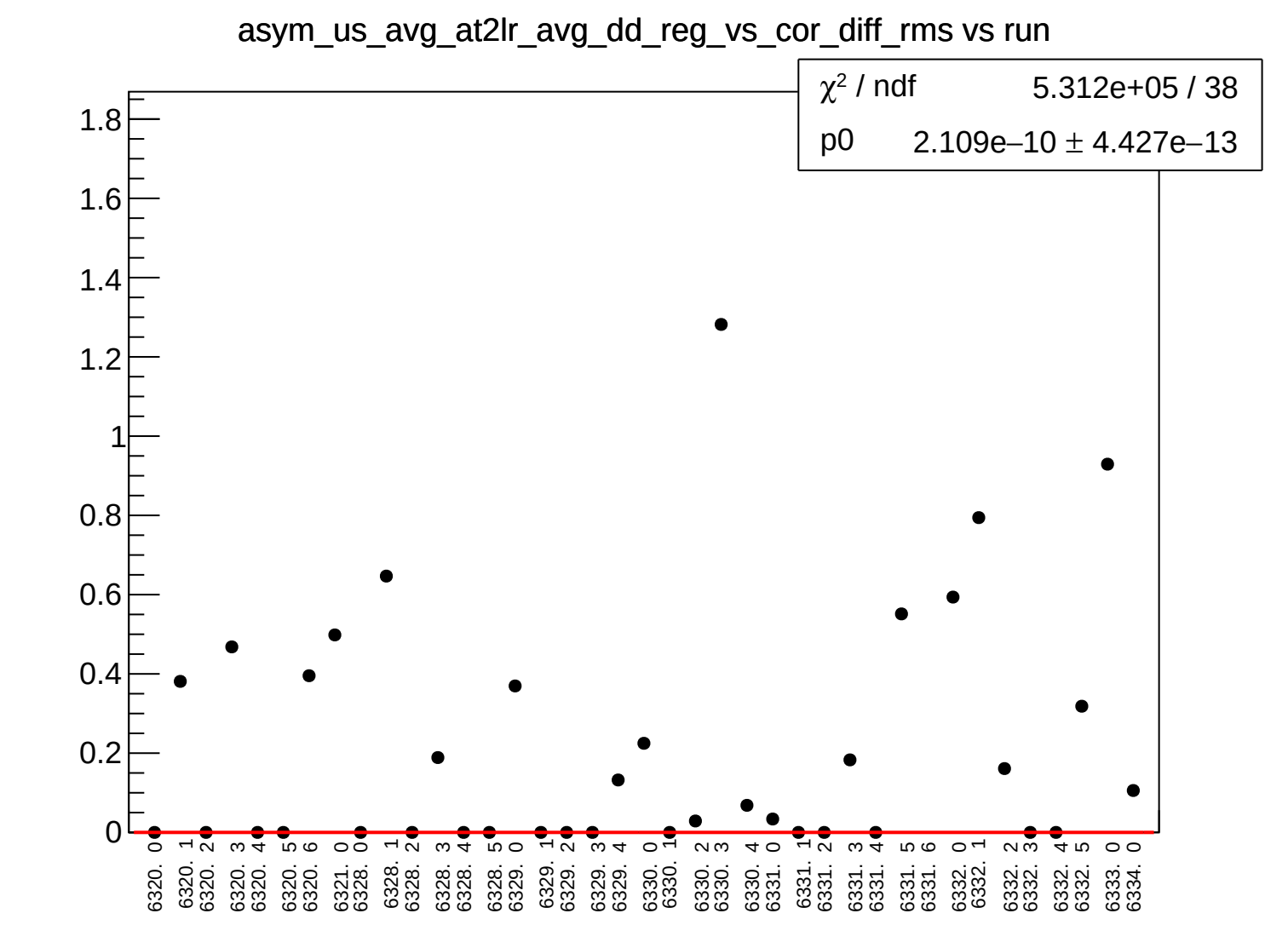

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9456 / 38
p0 1.1e+04 ± 12.72
14000
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

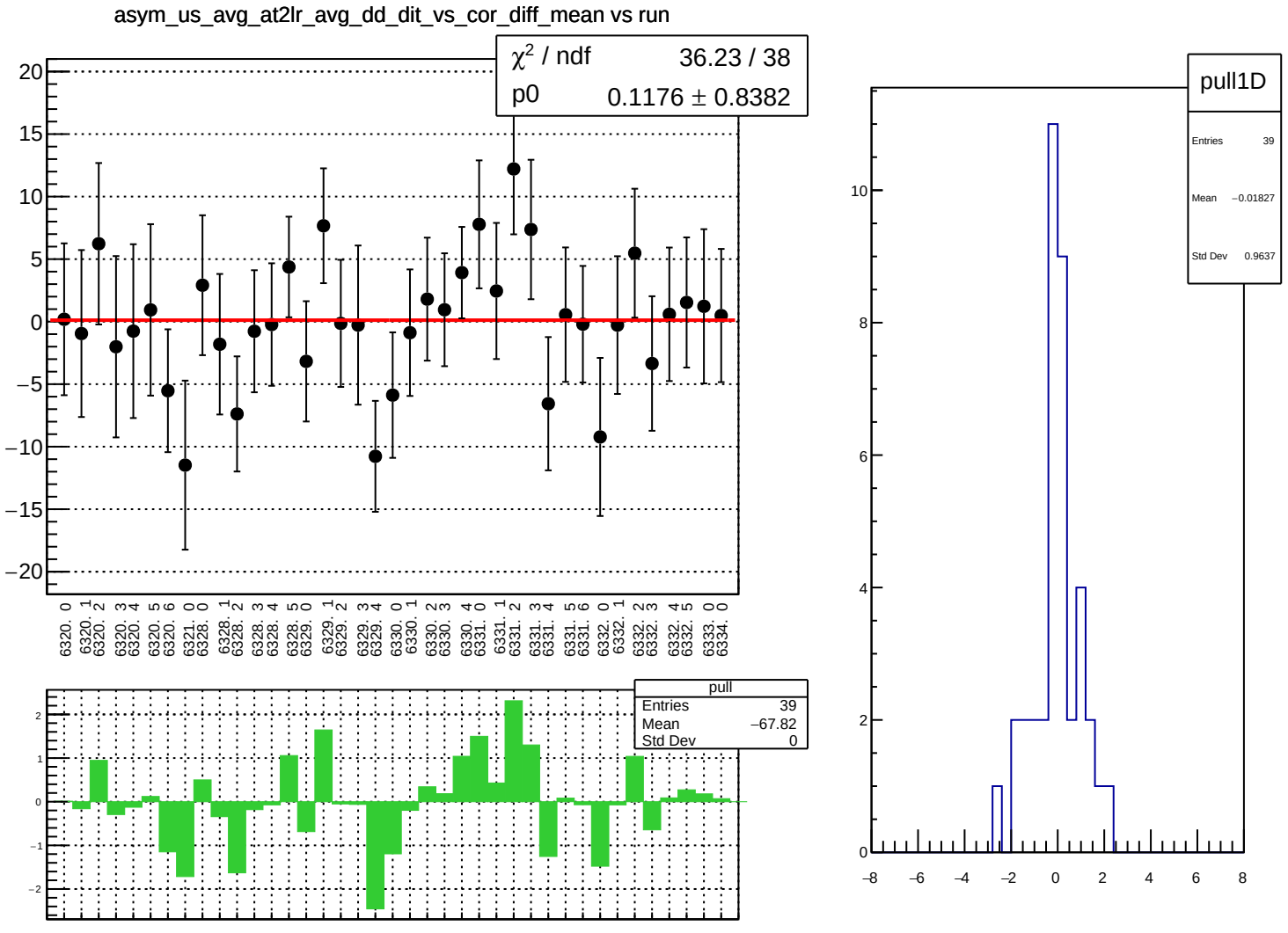

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 25.07 / 38
p0 1.35e+04 ± 1.799e+04
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

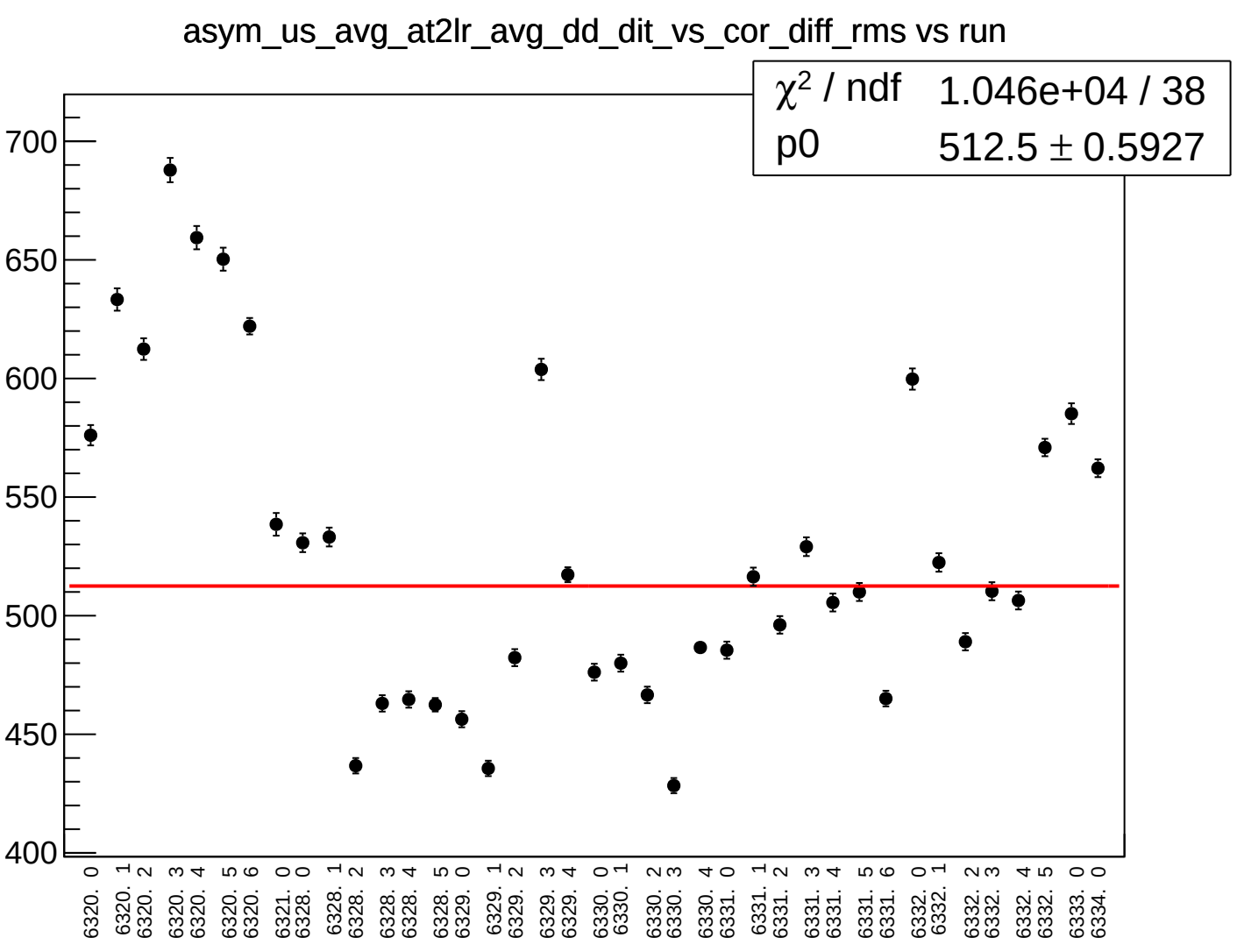

pull1D
Entries 39
Mean −0.02237
Std Dev 0.8015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

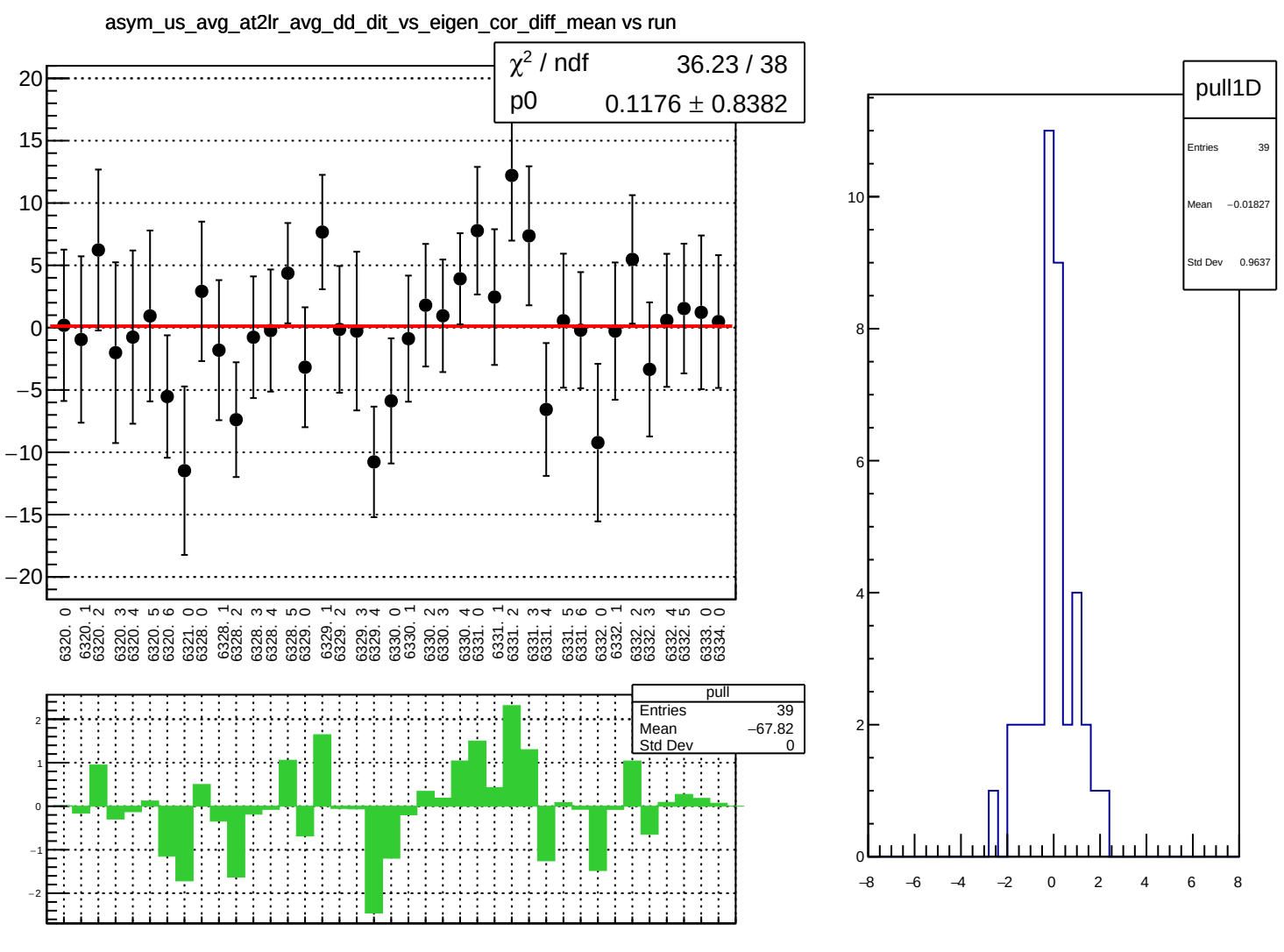

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9746 / 38
p0 1.1e+04 ± 12.72
13000
12000
11000
10000
9000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

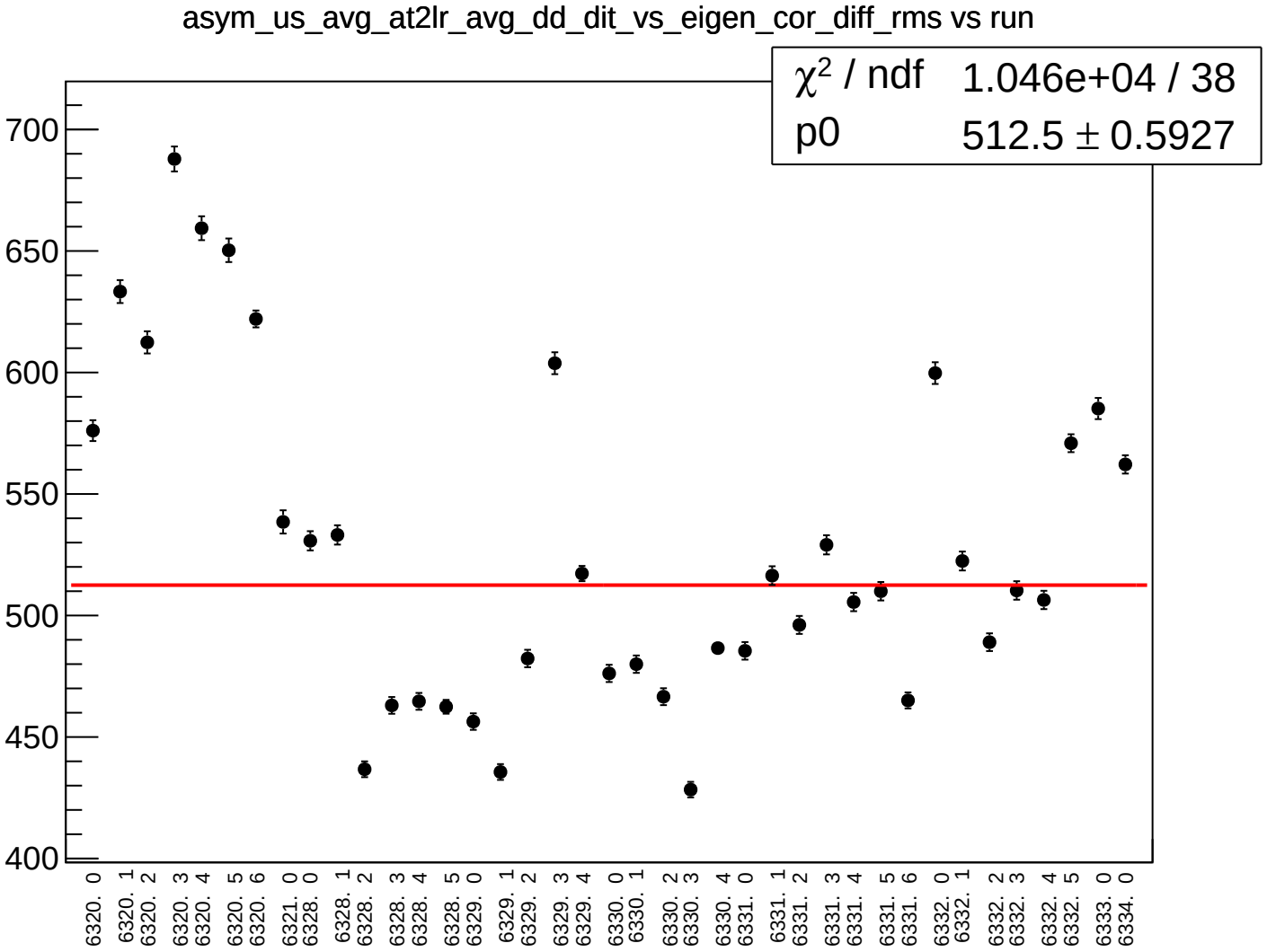

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.75 / 38
p0 −6.059e−13 ± 6.261e−13
0.03
0.02
0.01
0
−0.01
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02932
Std Dev 0.9834
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

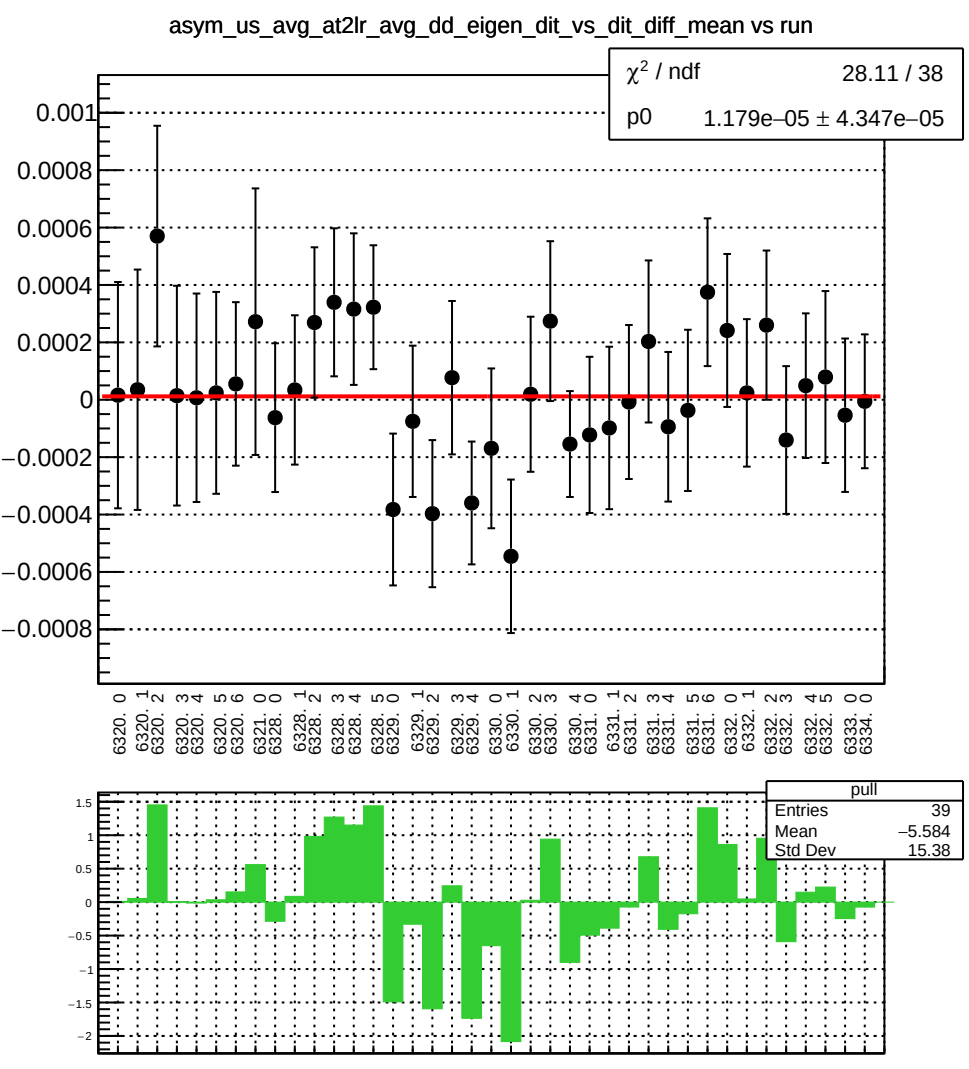

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.312e+05 / 38
p0 2.109e−10 ± 4.427e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

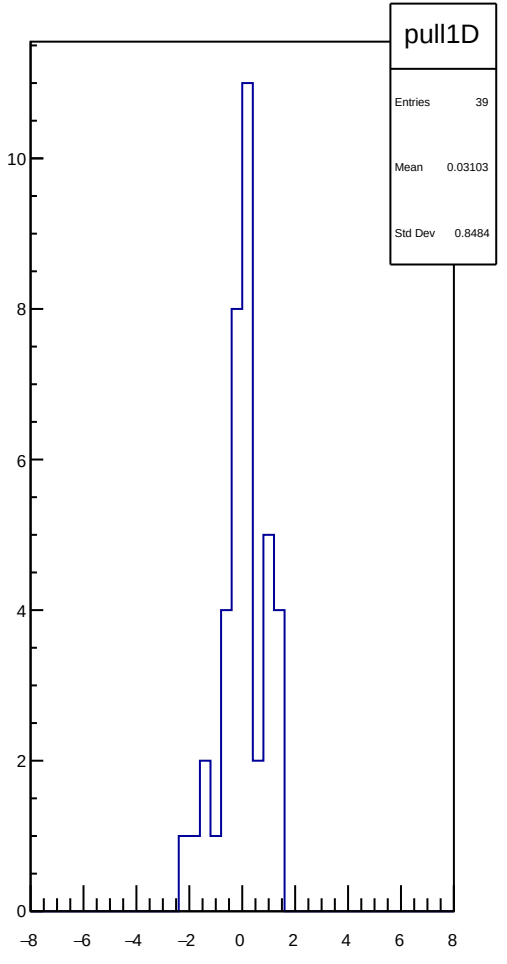

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.1176 ± 0.8382
pull
Entries 39
Mean −67.82
Std Dev 0
pull1D
Entries 39
Mean −0.01827
Std Dev 0.9637

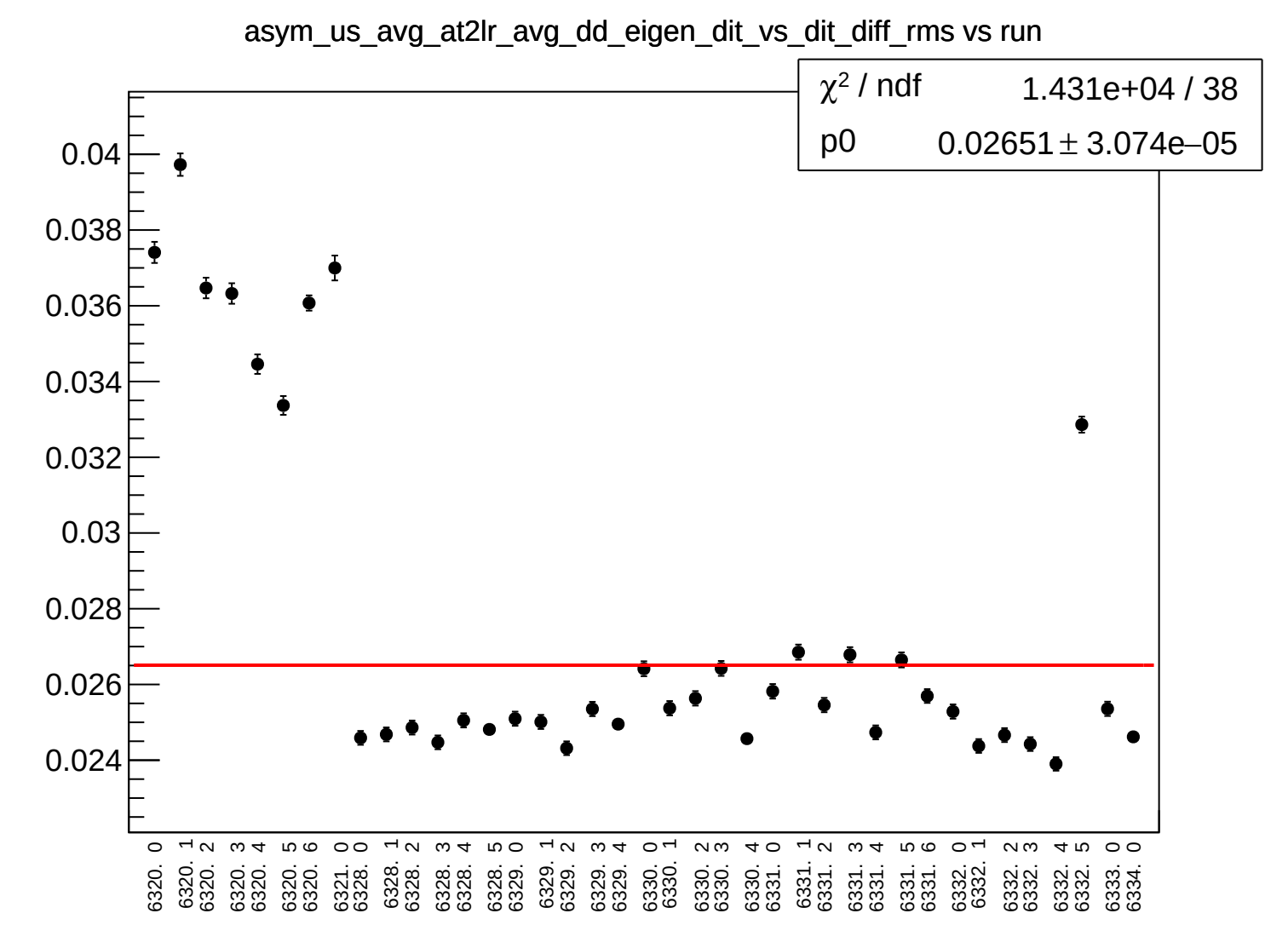

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 38
p0 512.5 ± 0.5927
700
650
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

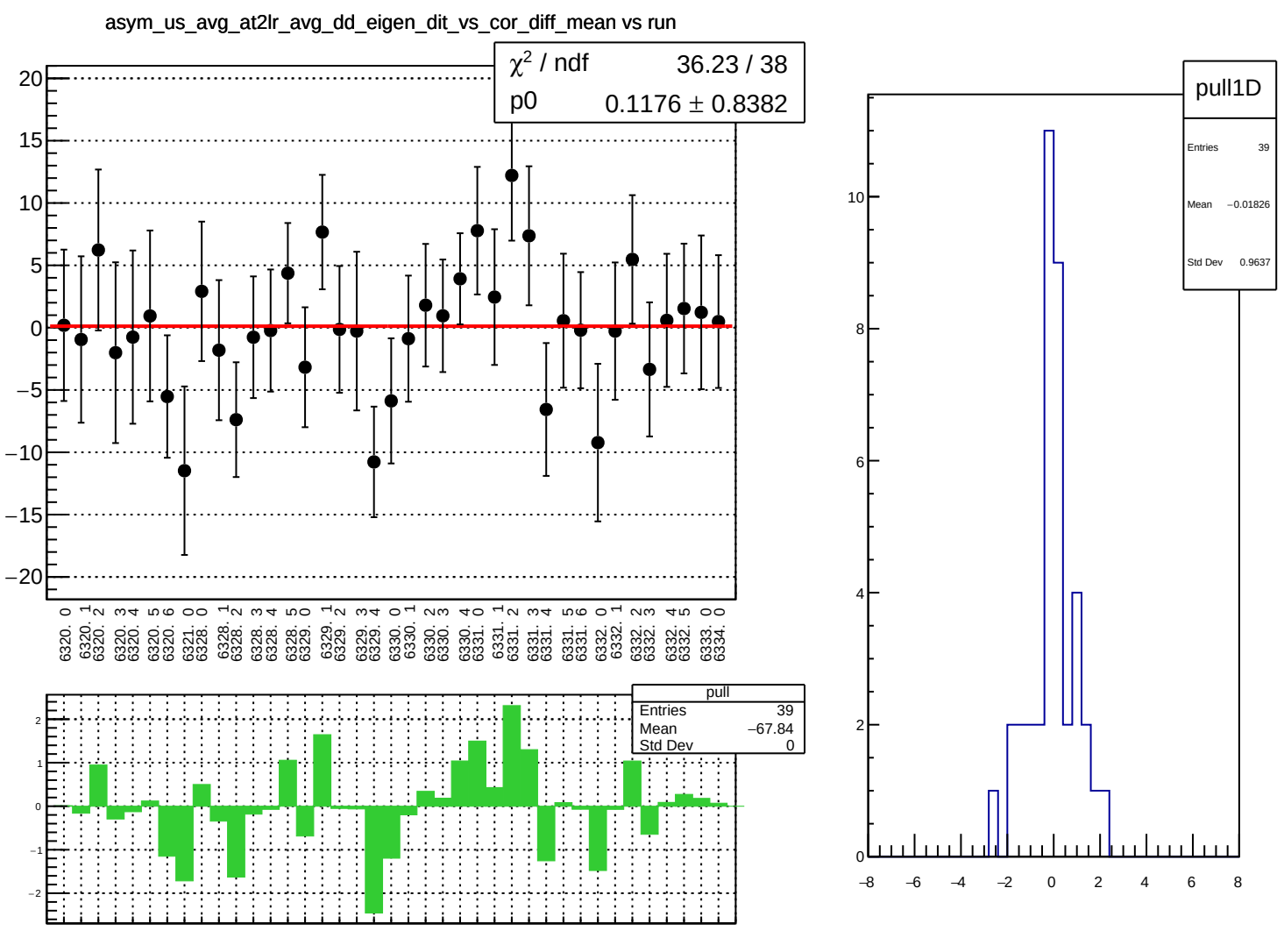

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.1176 ± 0.8382
20
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −67.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01827
Std Dev 0.9637
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

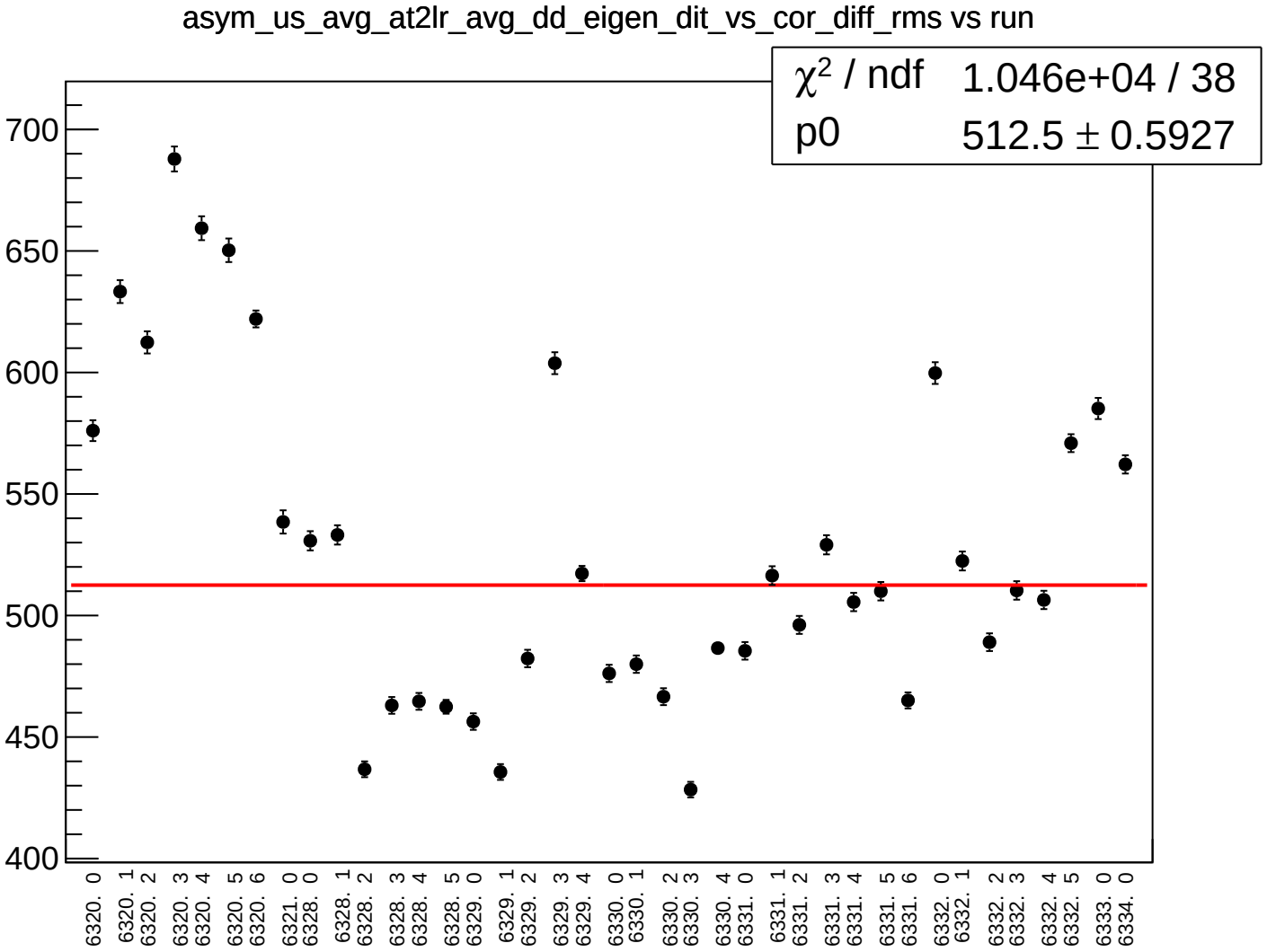

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 38
p0 512.5 ± 0.5927
700
650
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

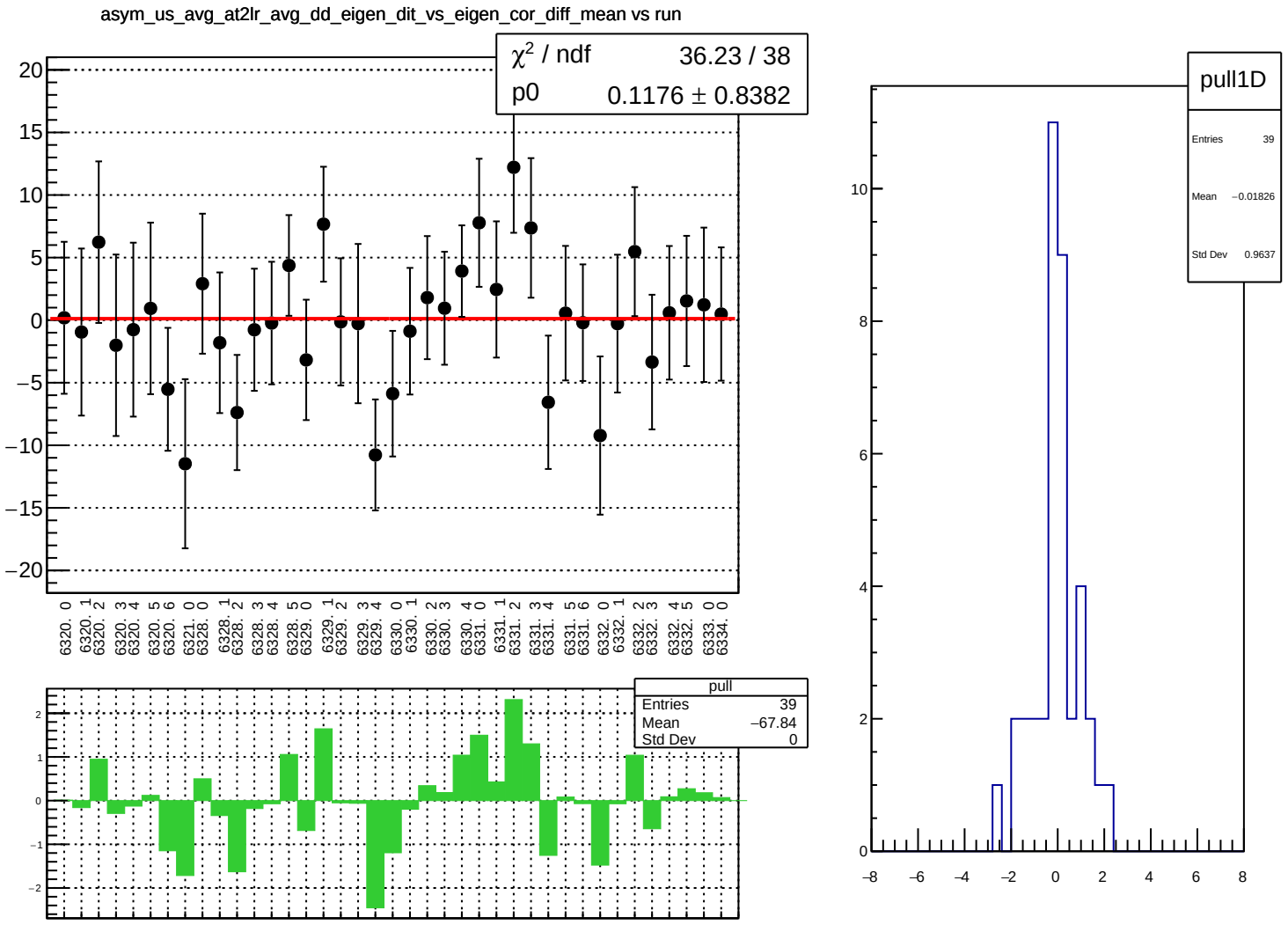

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 28.11 / 38
p0 1.179e−05 ± 4.347e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.584
Std Dev 15.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2

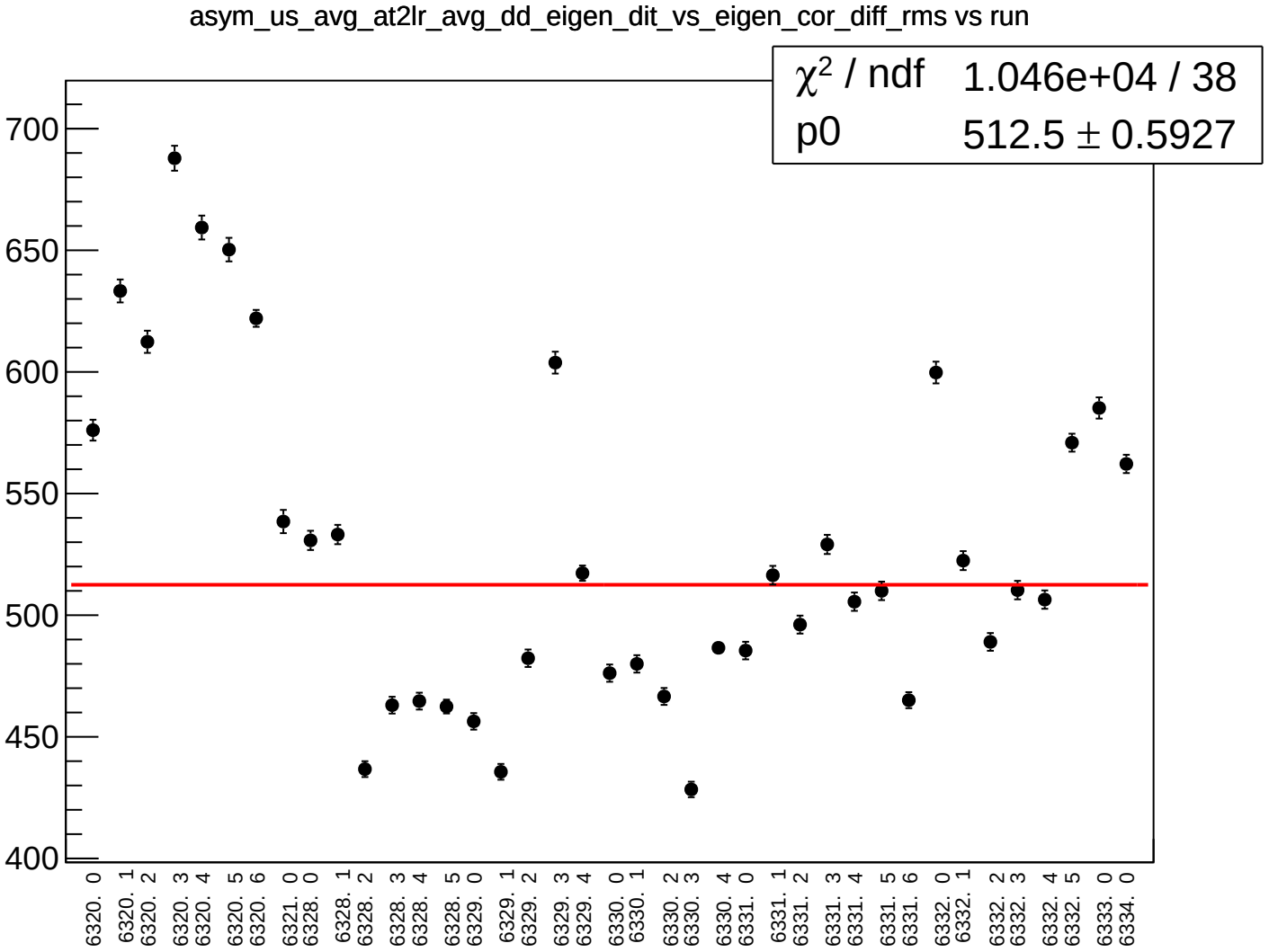

pull1D
Entries 39
Mean 0.03103
Std Dev 0.8484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

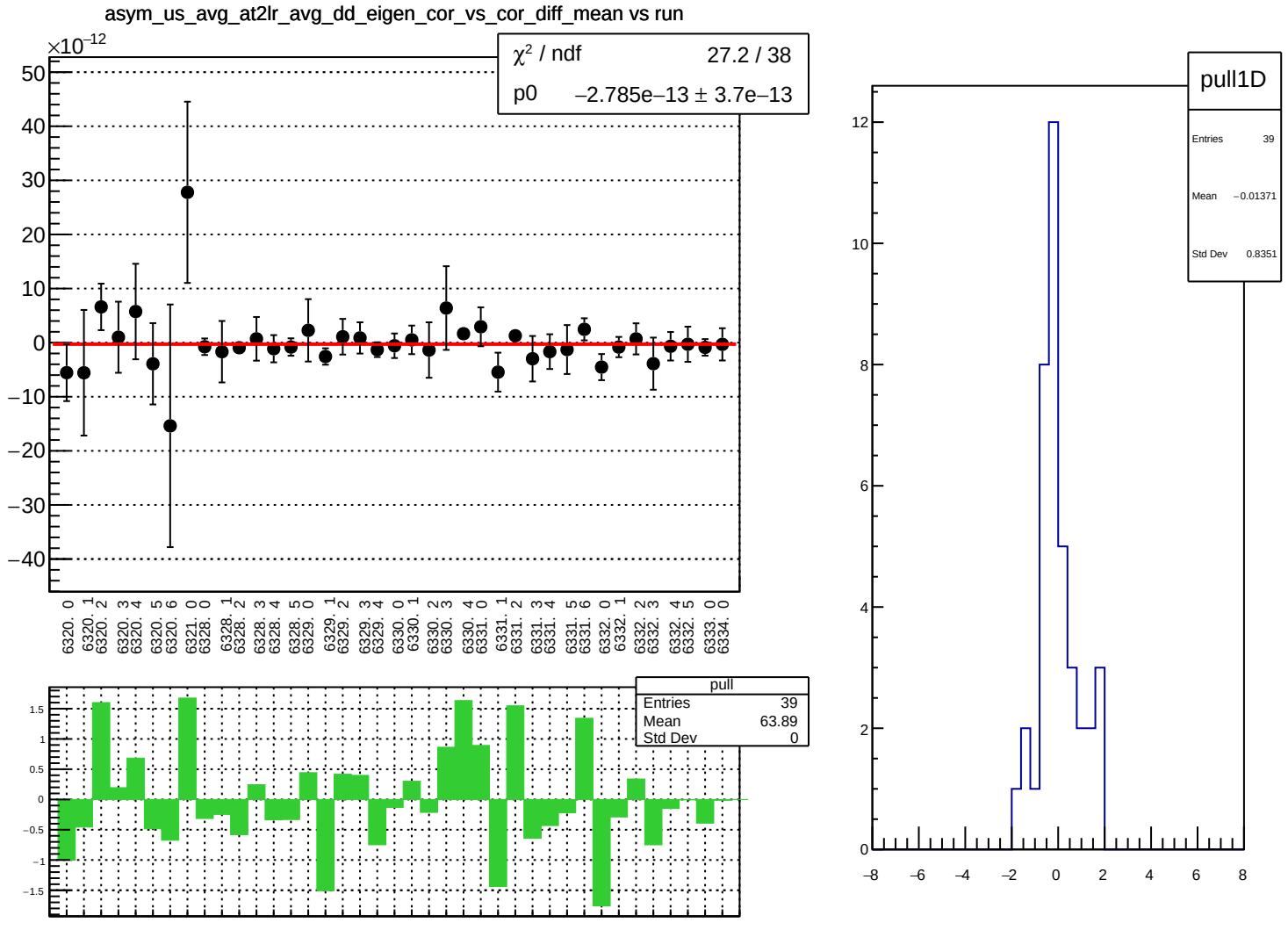

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.431e+04 / 38
p0 0.02651 ± 3.074e–05
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

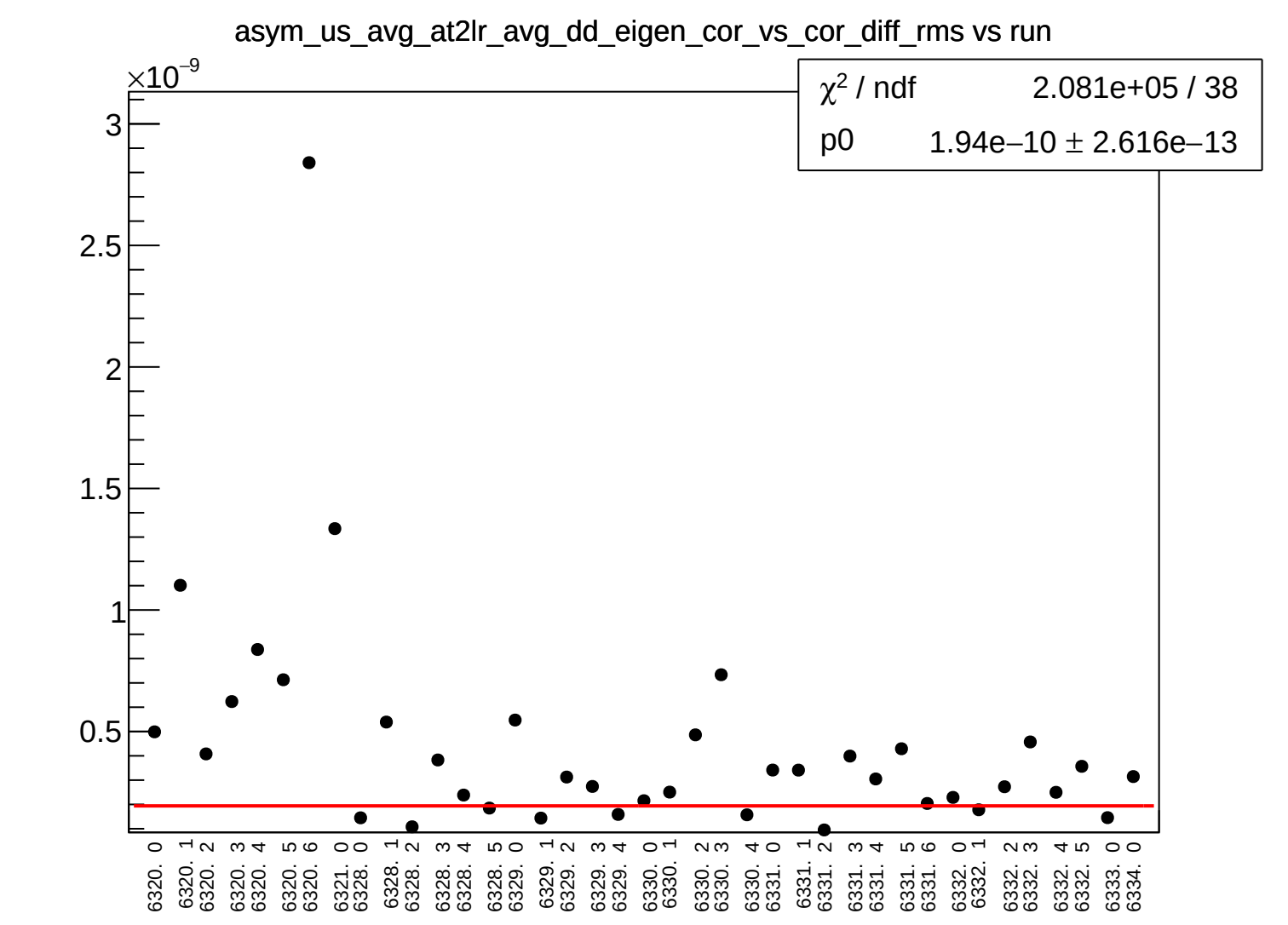

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.1176 ± 0.8382
pull
Entries 39
Mean −67.84
Std Dev 0
pull1D
Entries 39
Mean −0.01826
Std Dev 0.9637

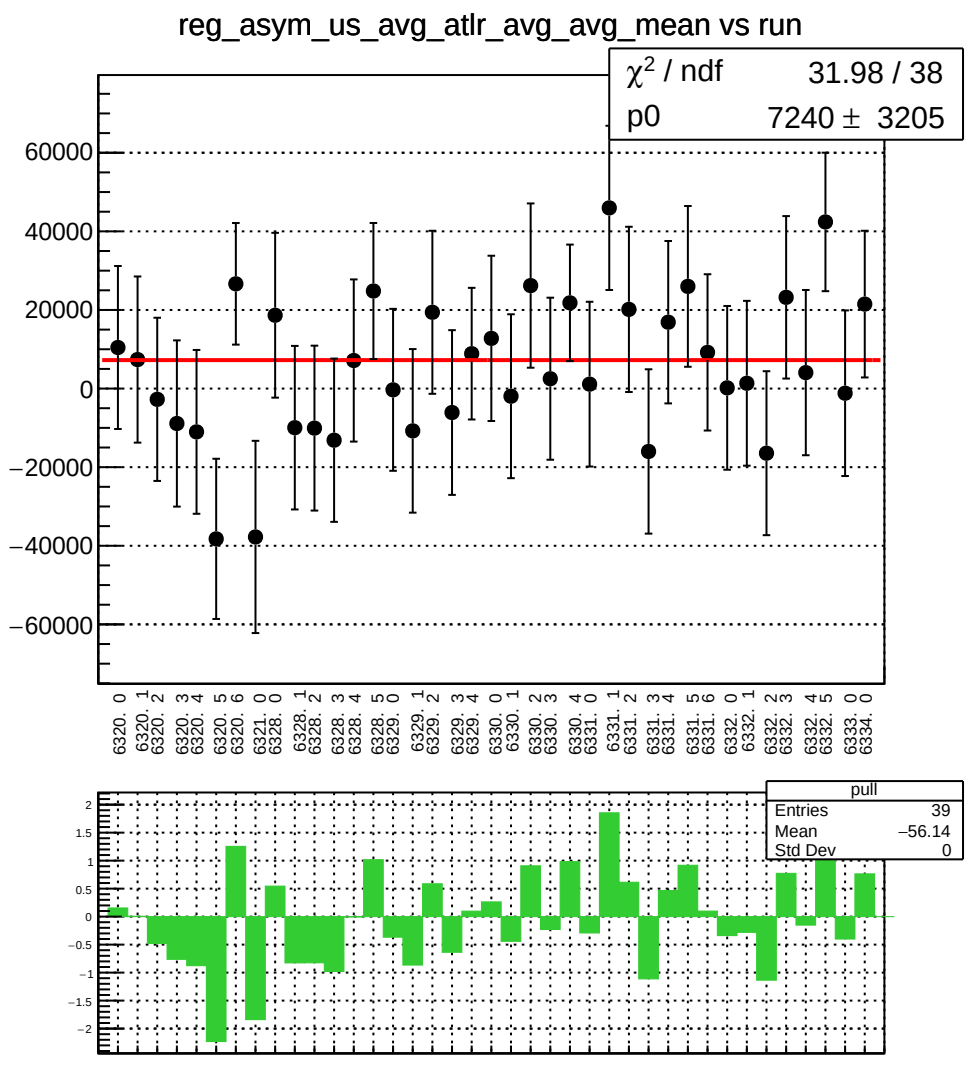

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 38
p0 512.5 ± 0.5927
700
650
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

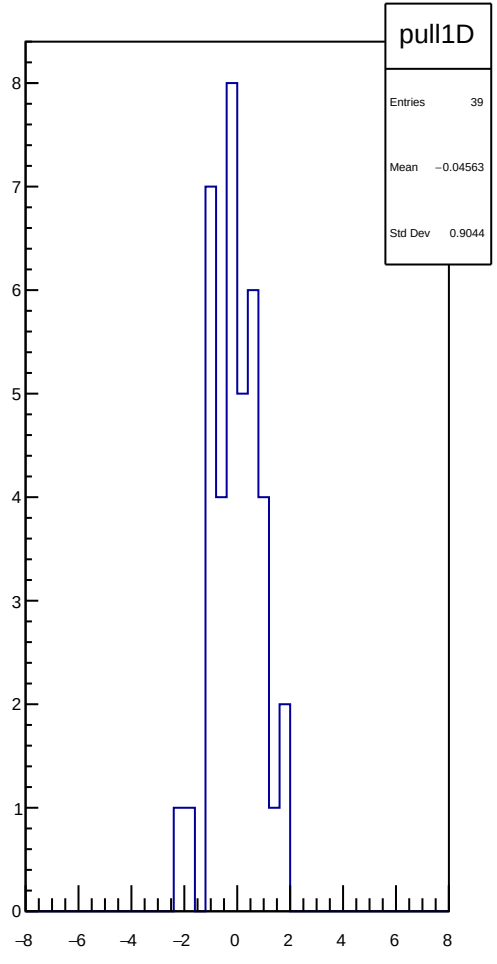

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.1176 ± 0.8382
20
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −67.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01826
Std Dev 0.9637
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

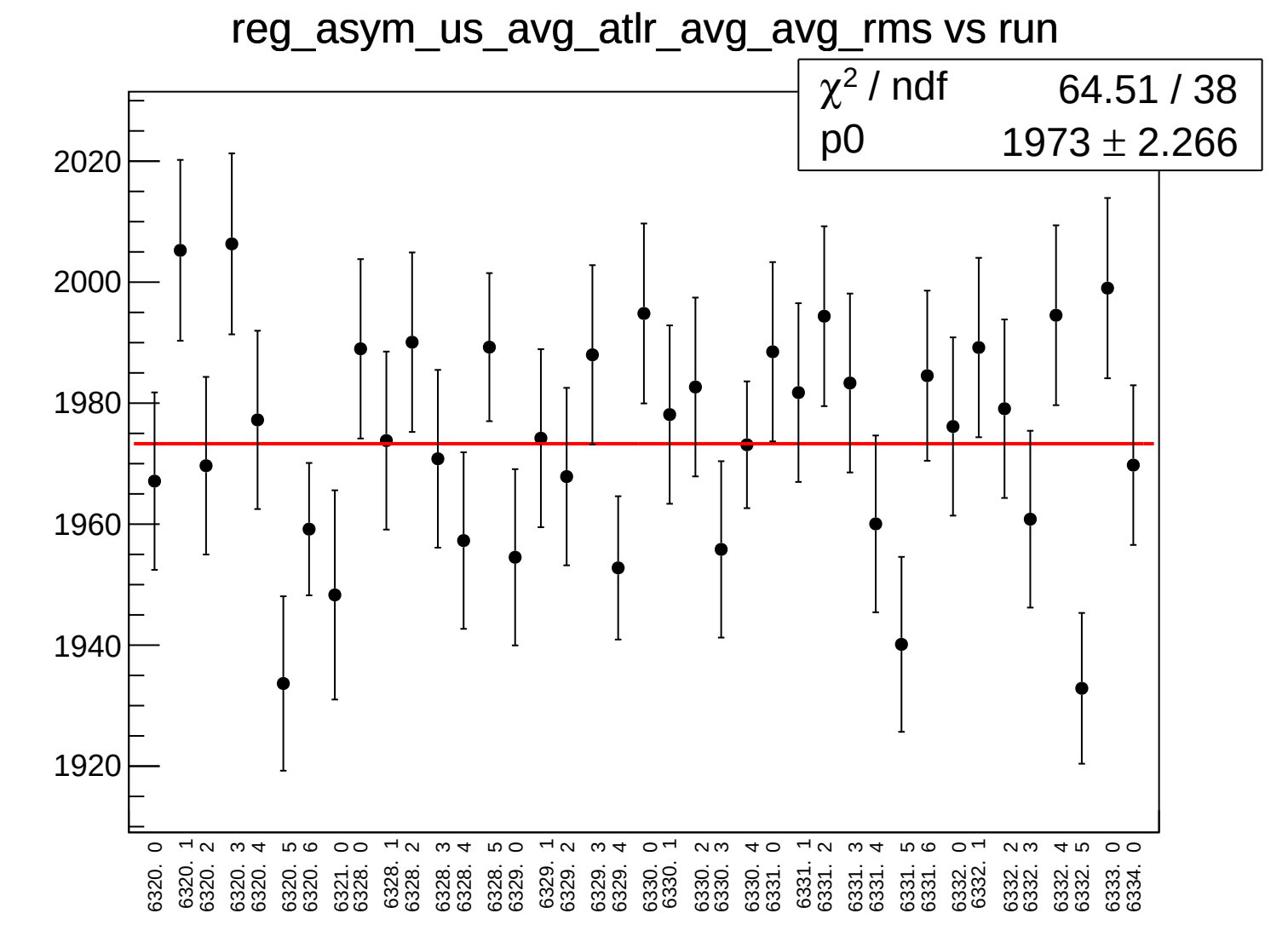

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 38
p0 512.5 ± 0.5927
700
650
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

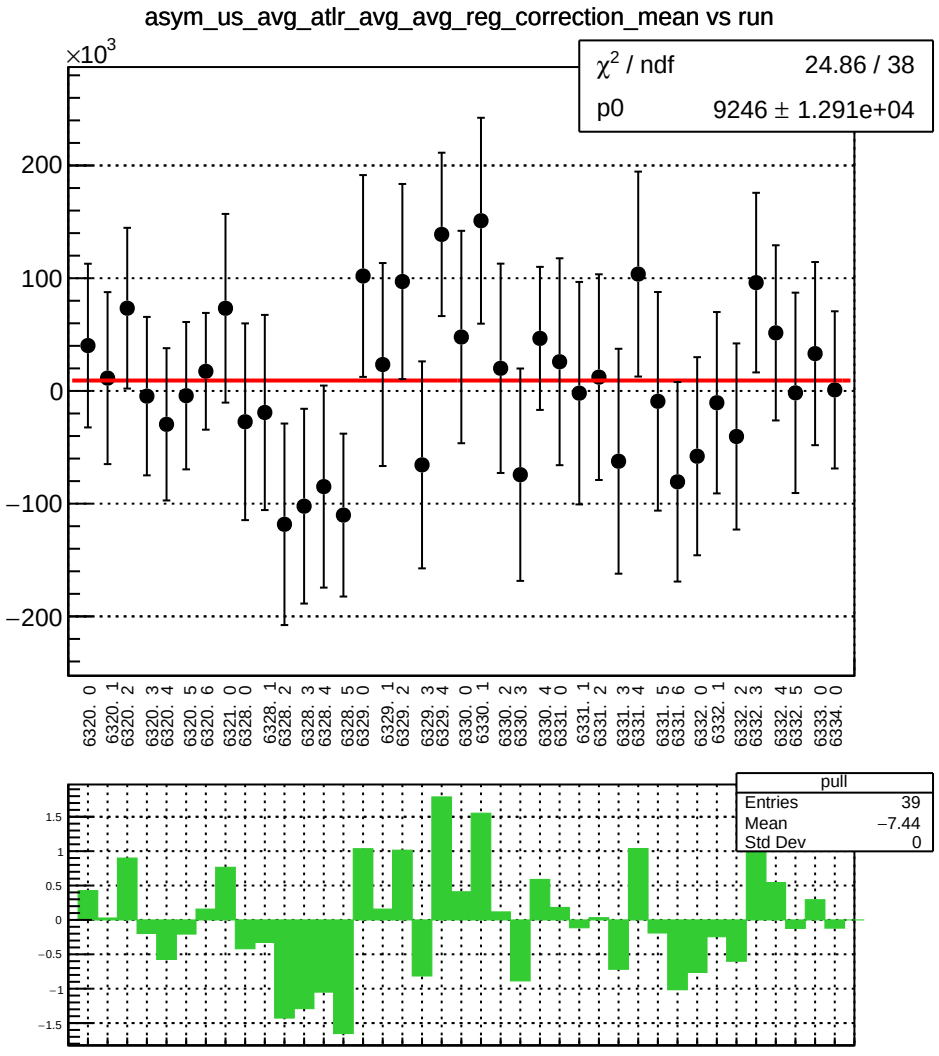

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.2 / 38
p0 −2.785e−13 ± 3.7e−13
pull
Entries 39
Mean 63.89
Std Dev 0
pull1D
Entries 39
Mean −0.01371
Std Dev 0.8351

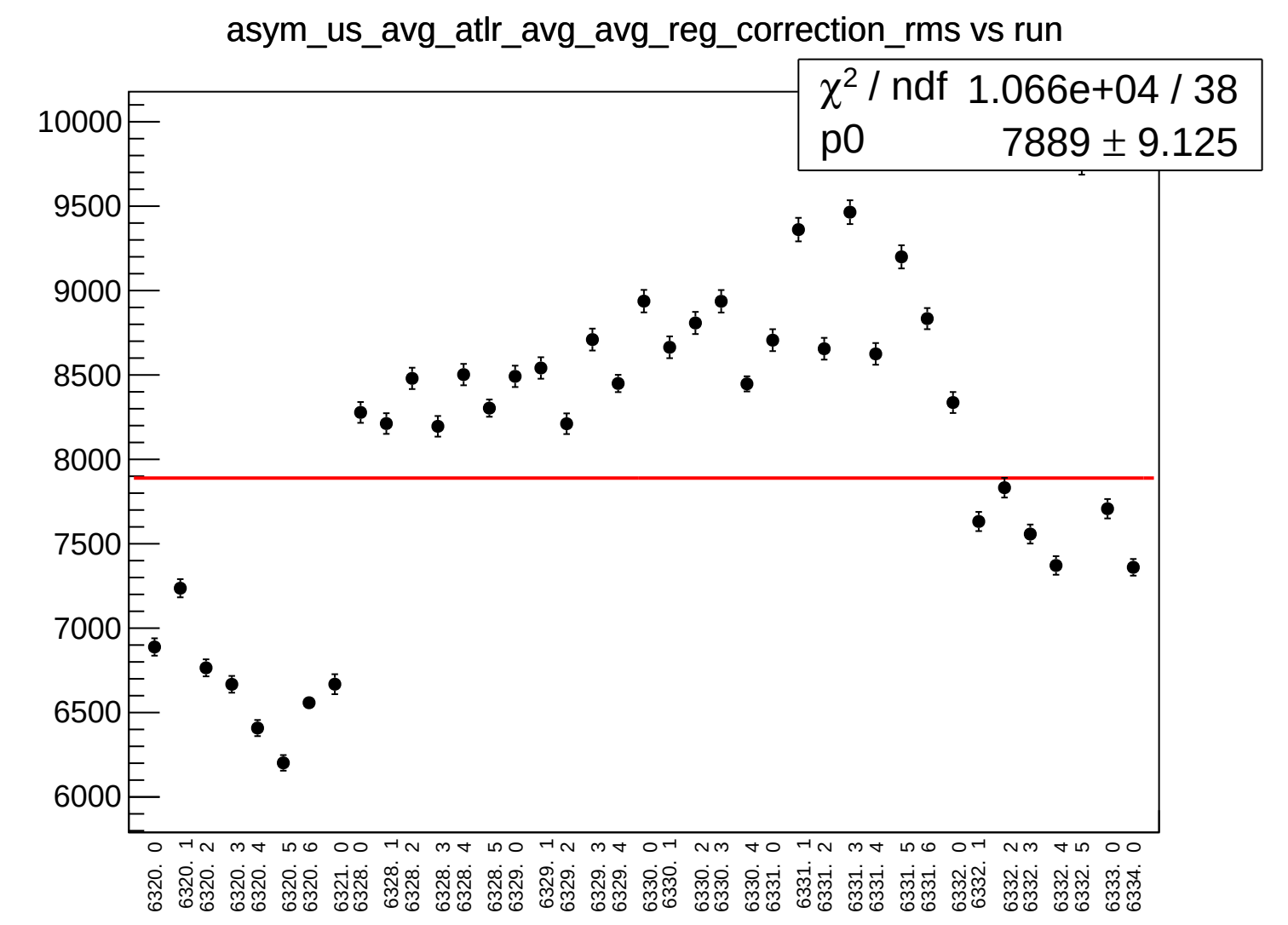

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.081e+05 / 38
p0 1.94e−10 ± 2.616e−13
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

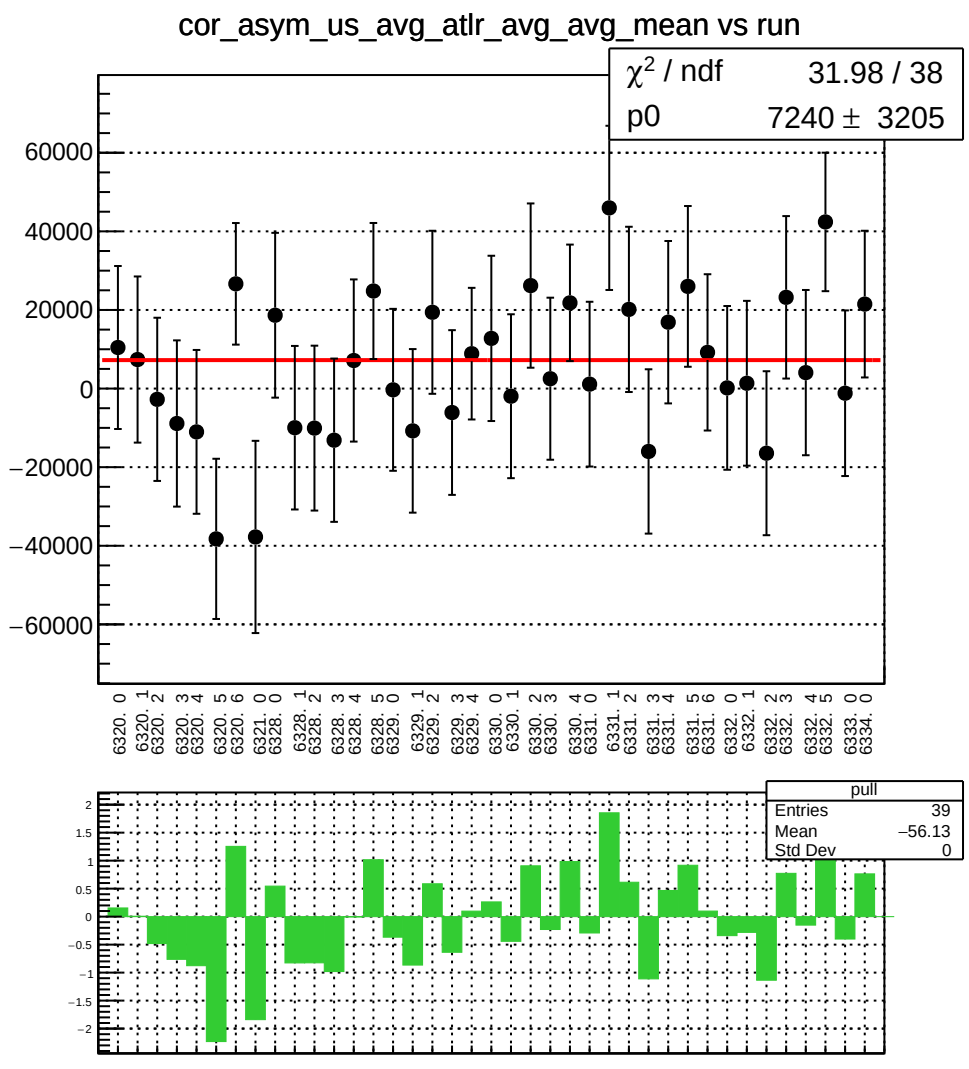

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 31.98 / 38
p0 7240 ± 3205
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −56.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

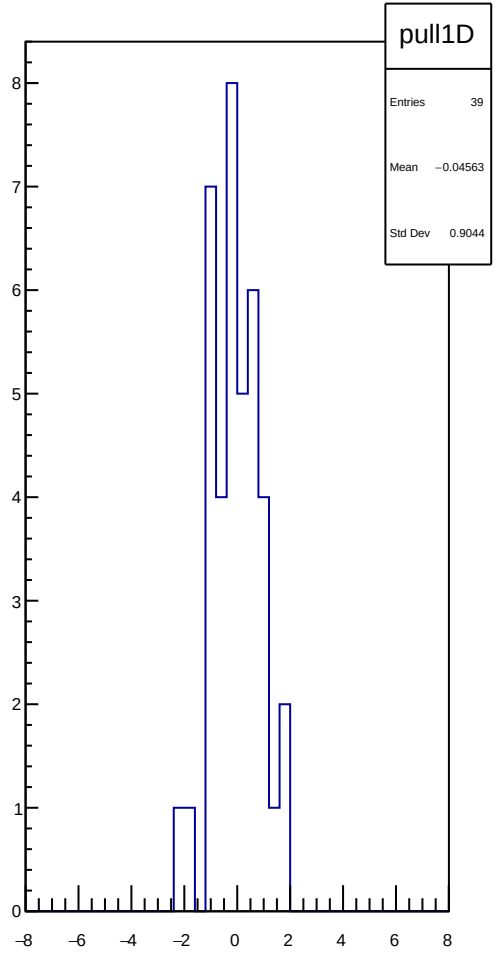

pull1D
Entries 39
Mean −0.04563
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

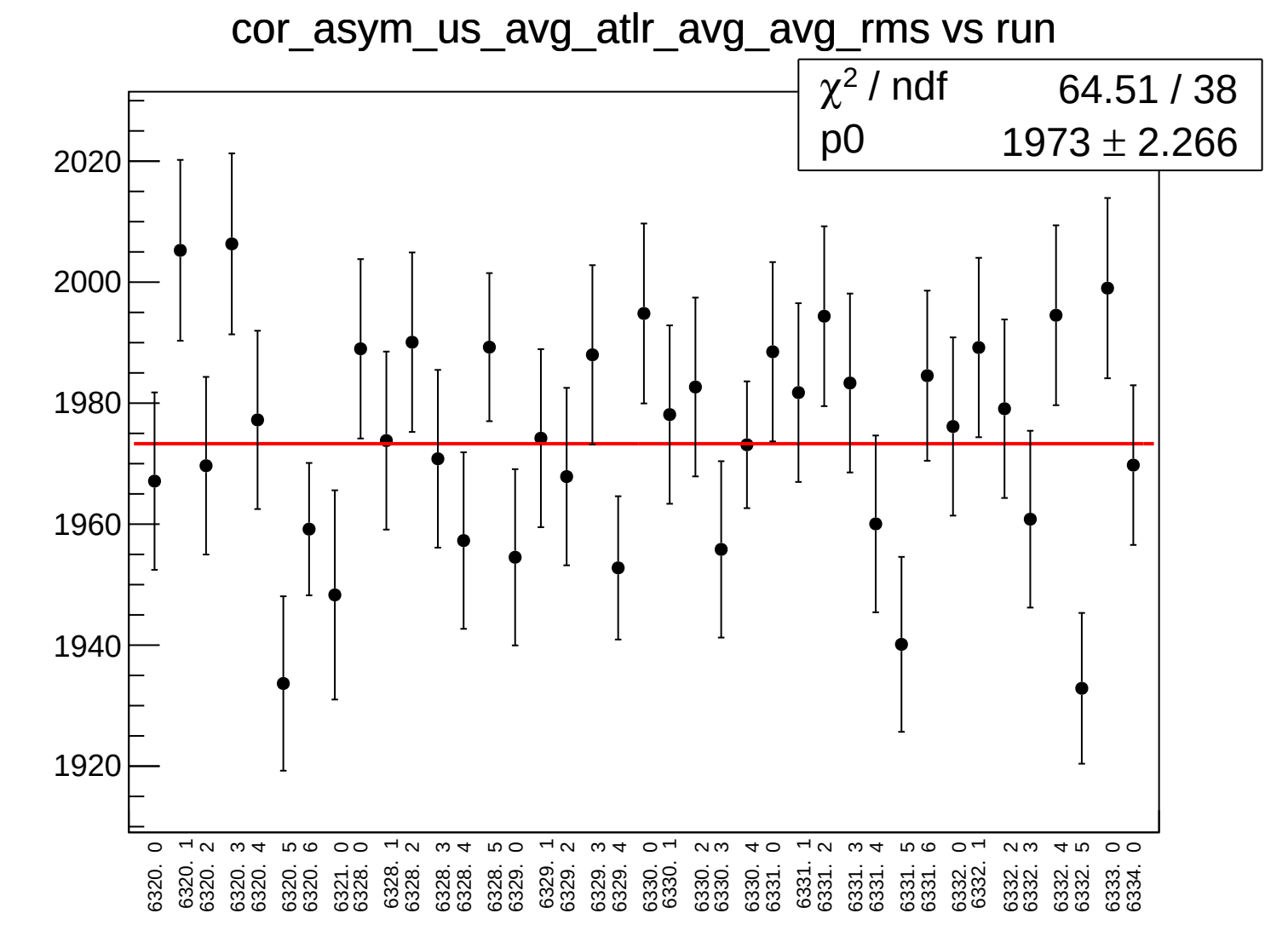

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 64.51 / 38
p0 1973 ± 2.266
2020
2000
1980
1960
1940
1920
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

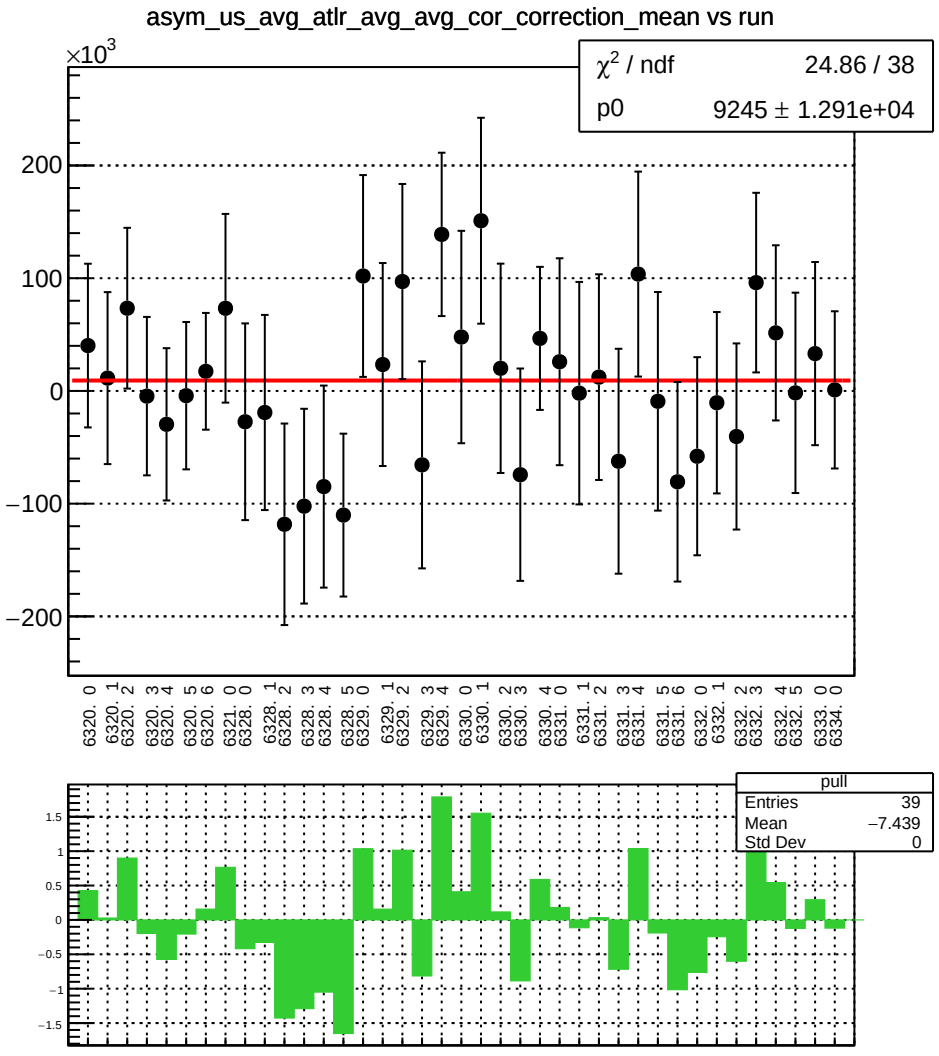

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.86 / 38
p0 9246 ± 1.291e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01572
Std Dev 0.7983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

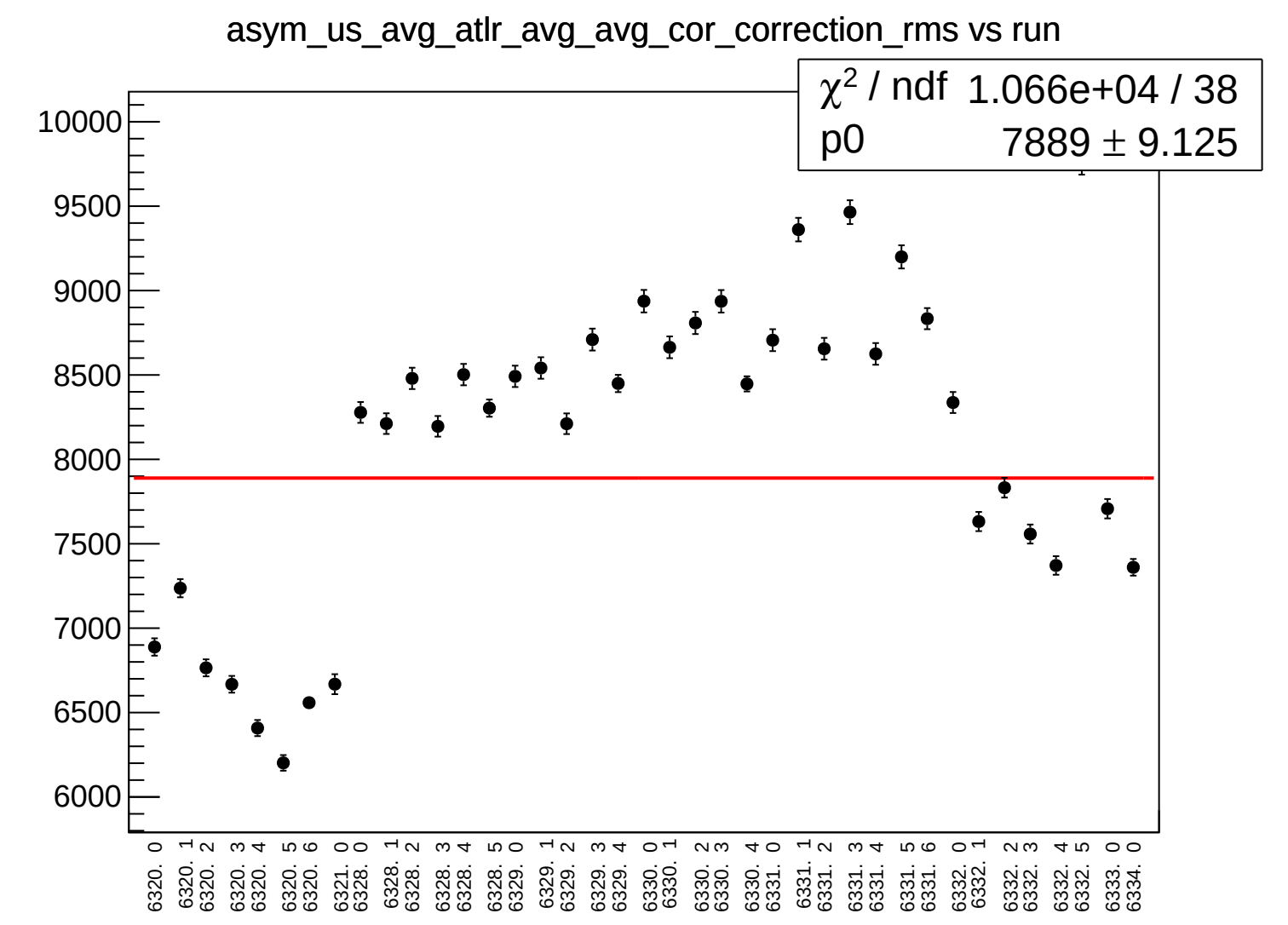

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.066e+04 / 38
p0 7889 ± 9.125
10000
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

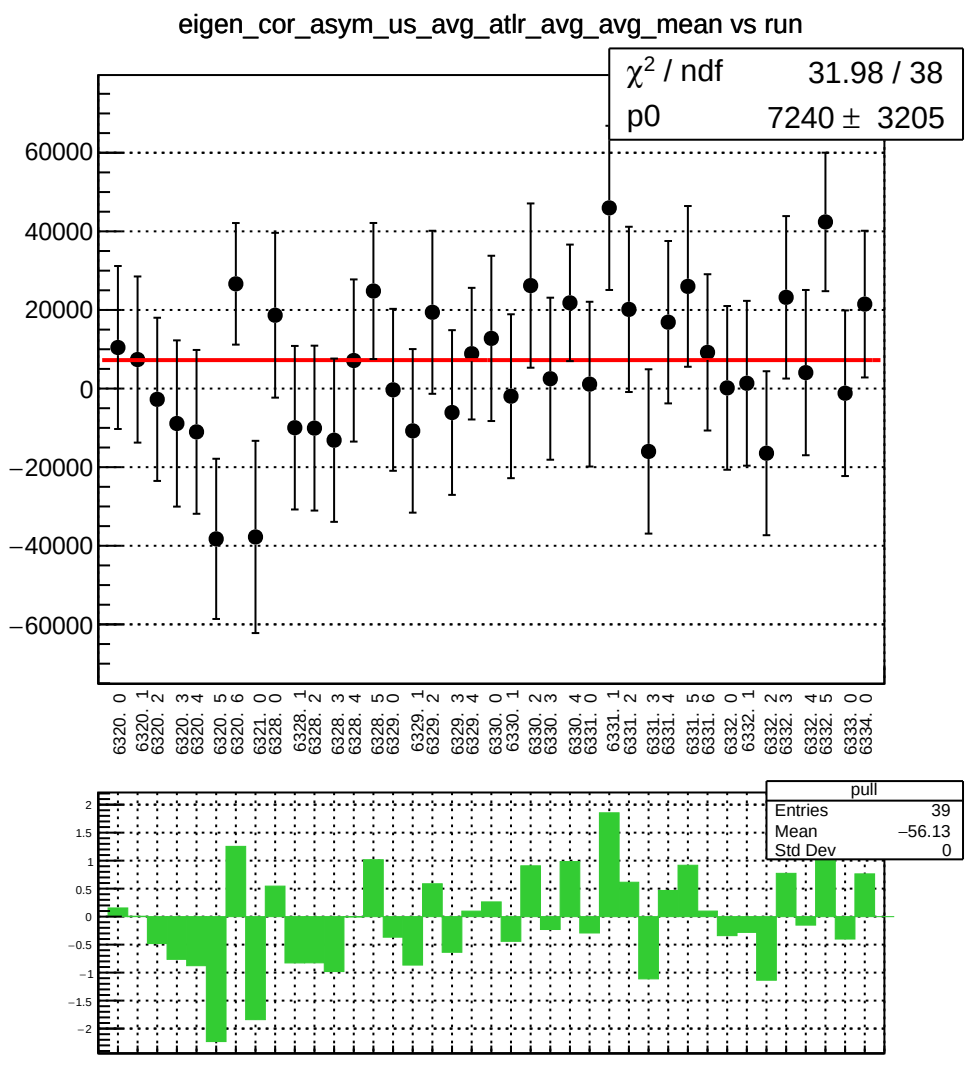

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 31.98 / 38
p0 7240 ± 3205
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −56.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

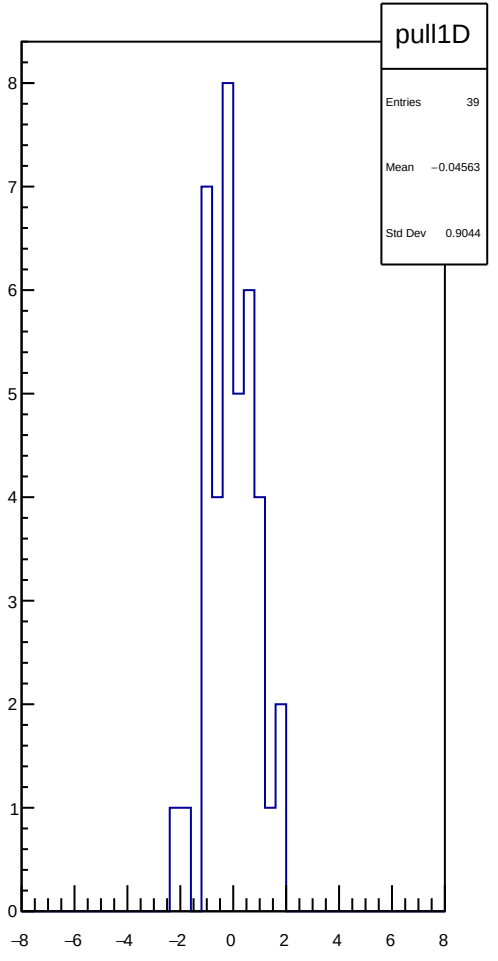

pull1D
Entries 39
Mean −0.04563
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

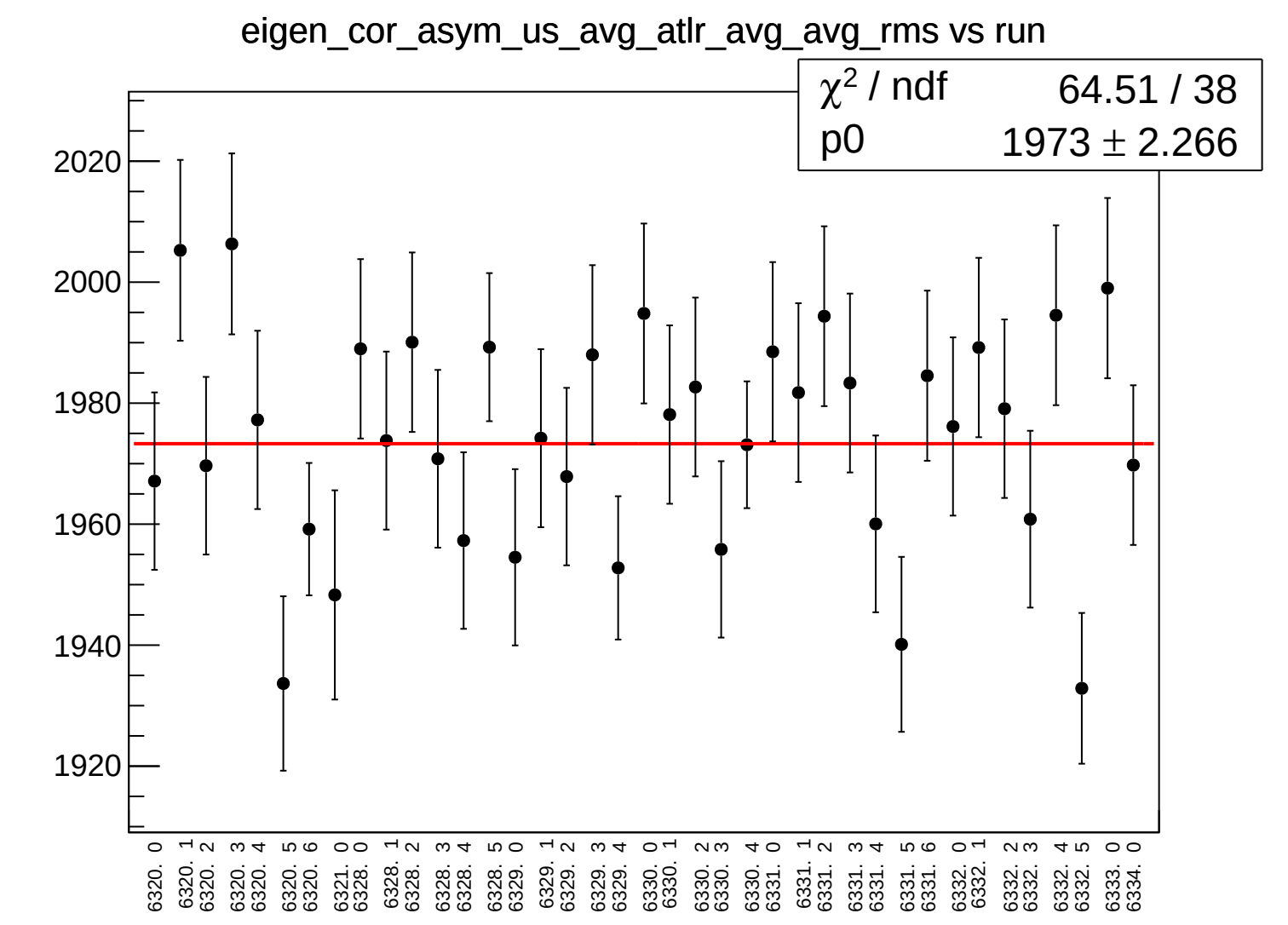

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 64.51 / 38
p0 1973 ± 2.266
2020
2000
1980
1960
1940
1920
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

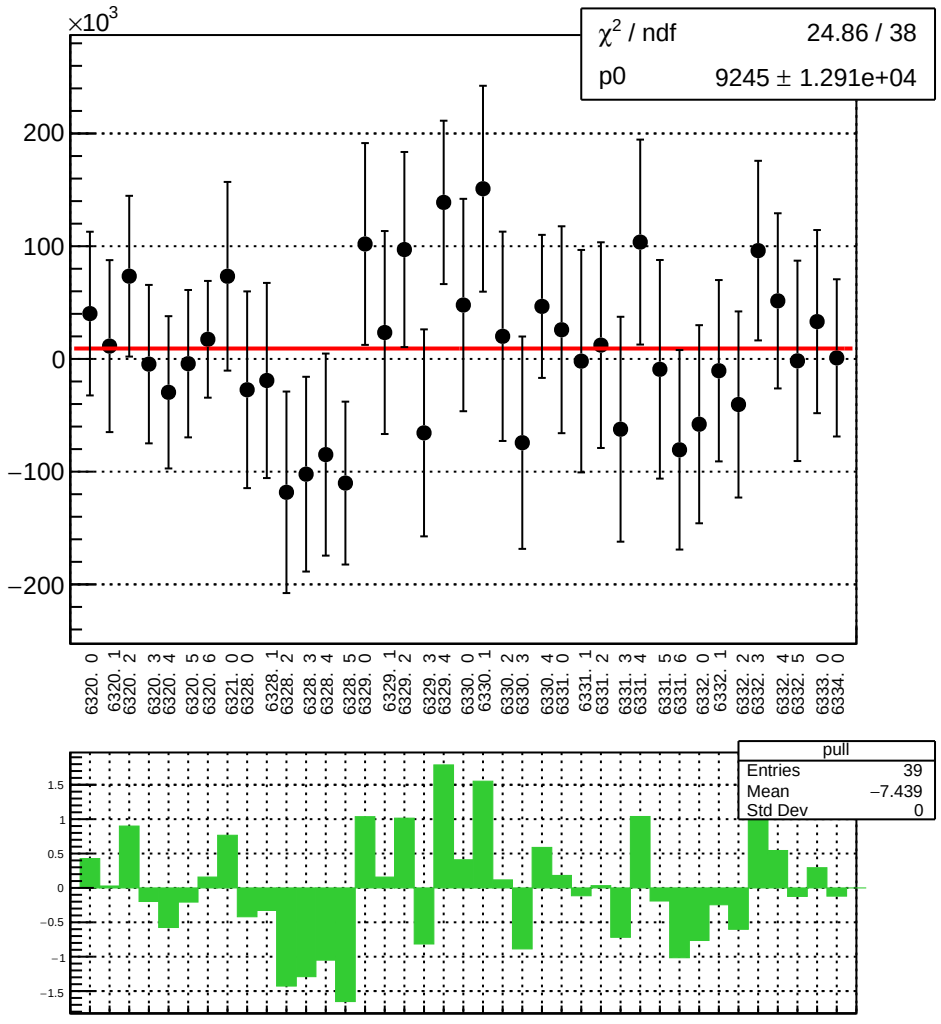

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.86 / 38
p0 9245 ± 1.291e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.439
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01572
Std Dev 0.7983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

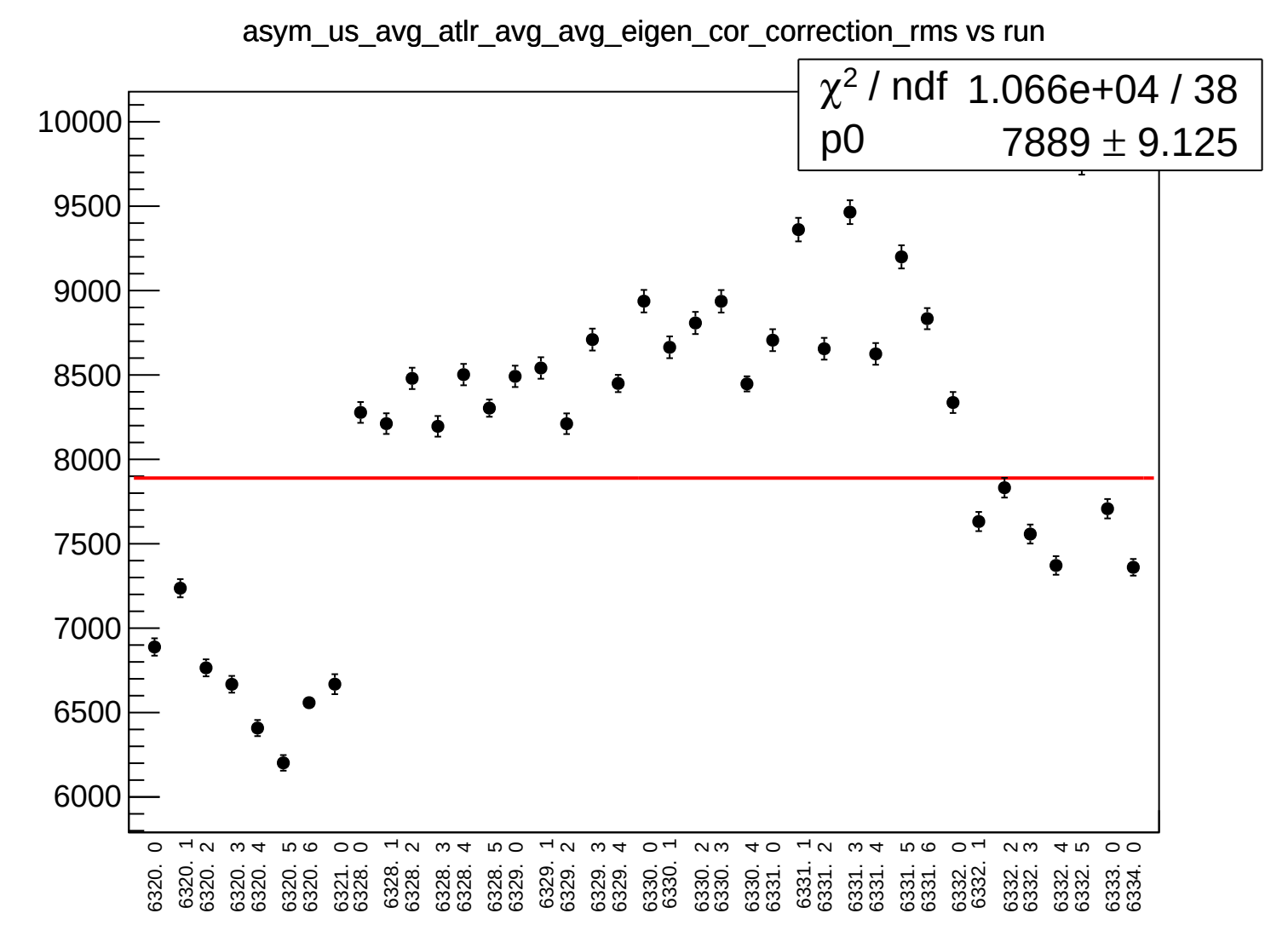

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 38
p0 7889 ± 9.125
10000
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

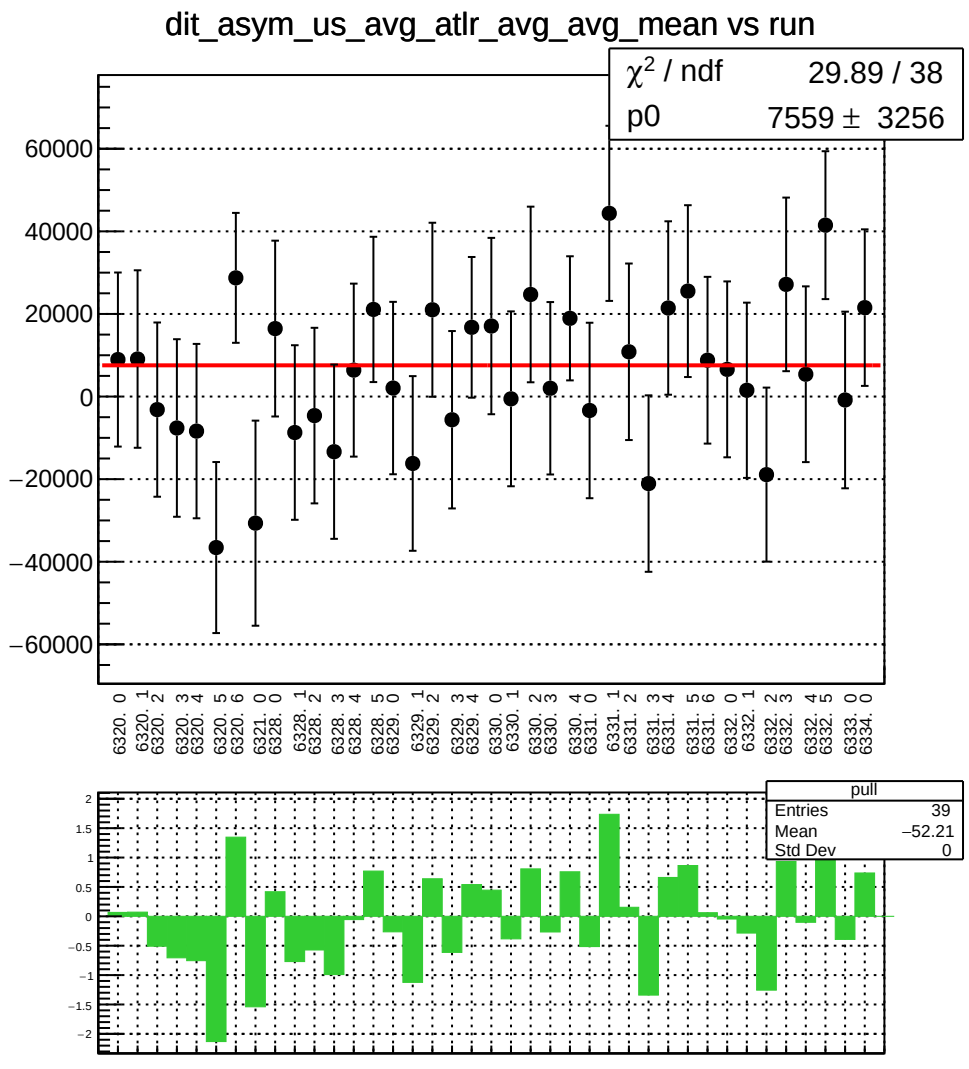

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 31.98 / 38
p0 7240 ± 3205
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −56.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

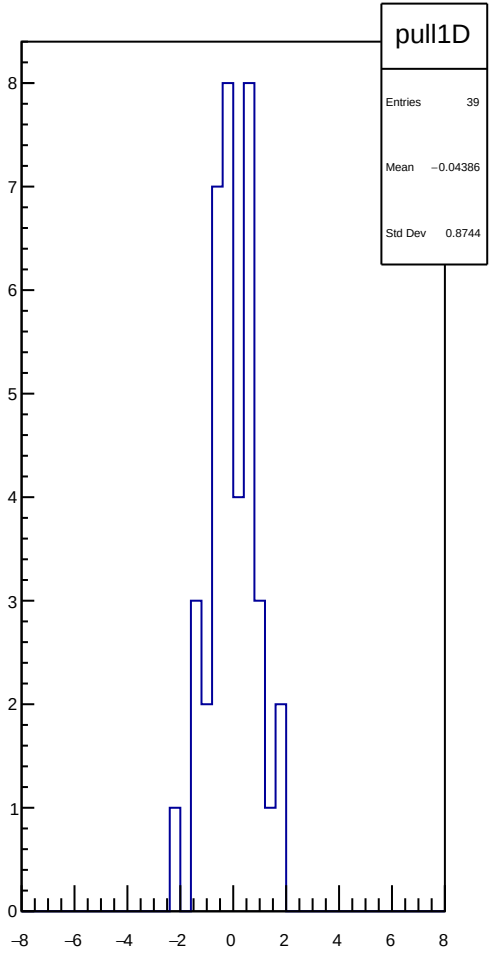

pull1D
Entries 39
Mean −0.04563
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

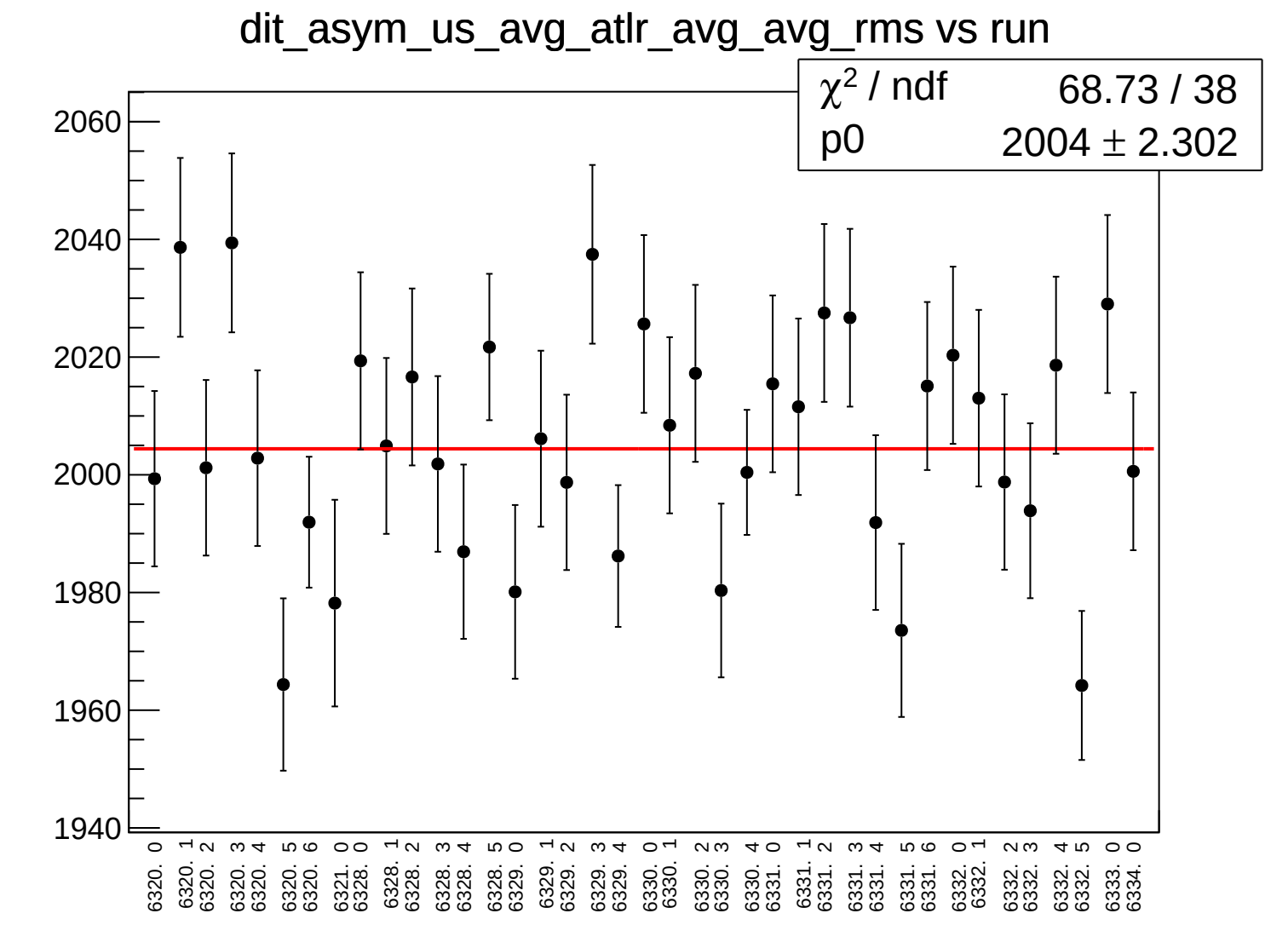

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 64.51 / 38
p0 1973 ± 2.266
2020
2000
1980
1960
1940
1920
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

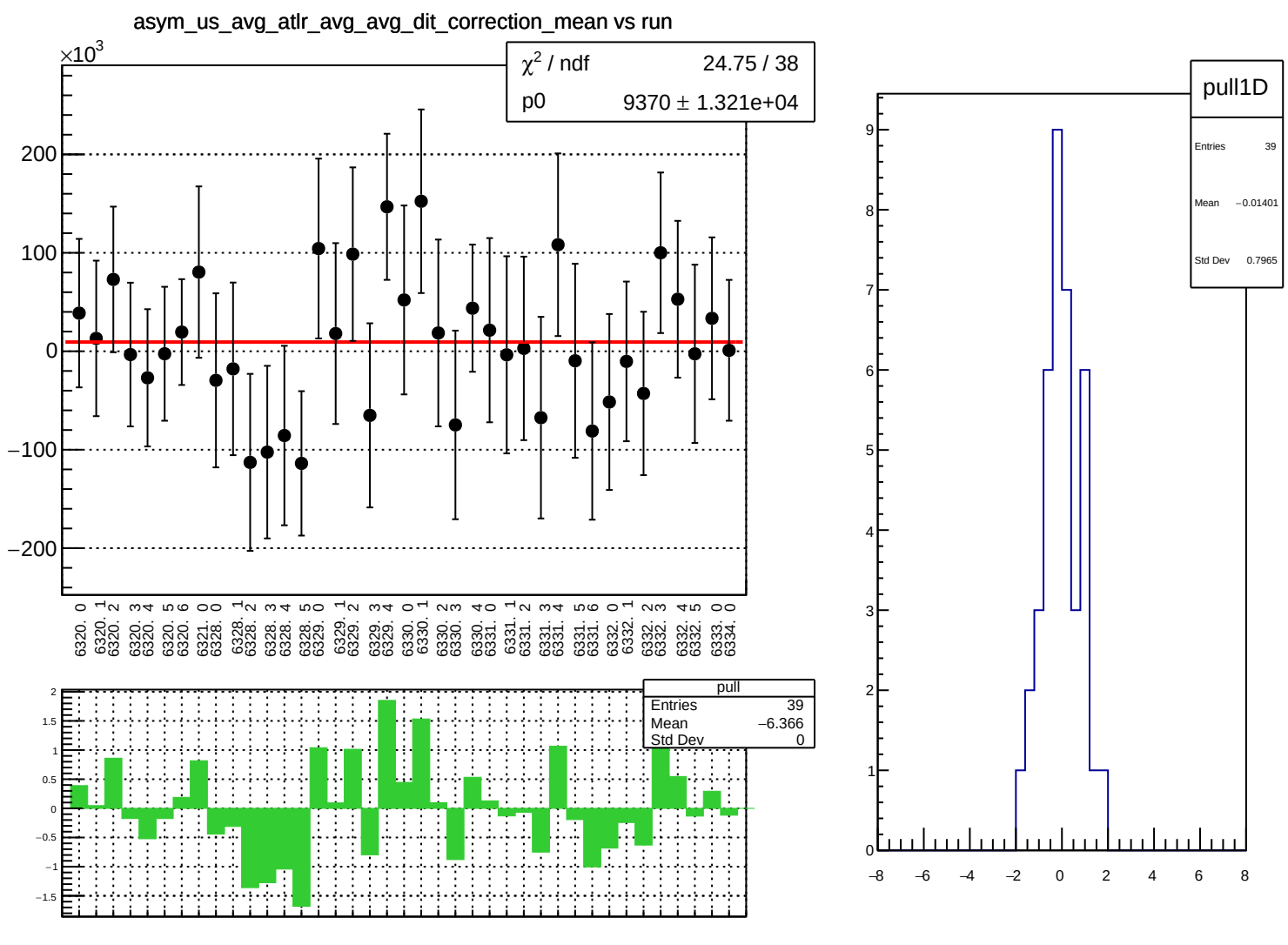

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.86 / 38
p0 9245 ± 1.291e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.439
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01572
Std Dev 0.7983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

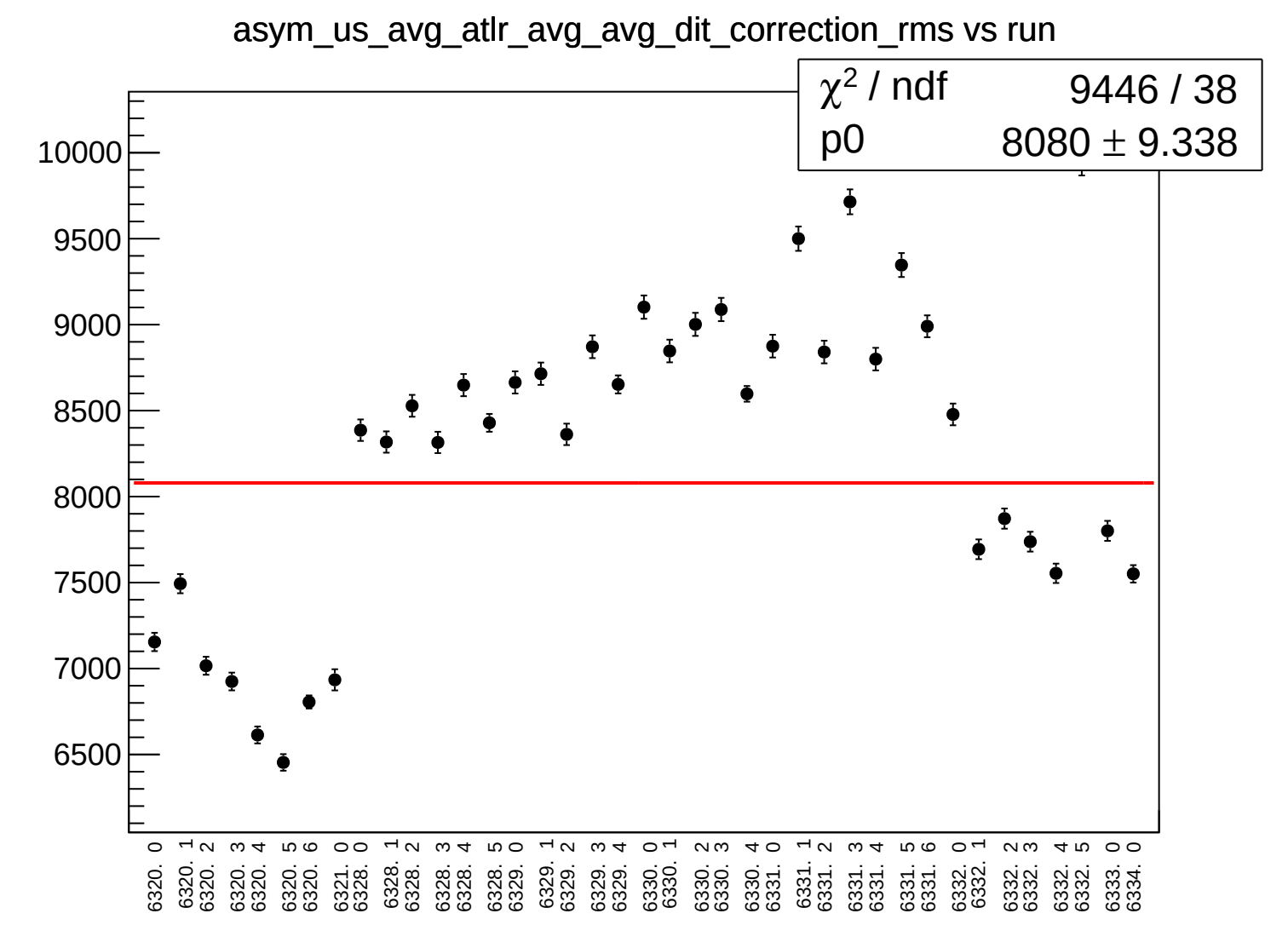

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 38
p0 7889 ± 9.125
10000
9500
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

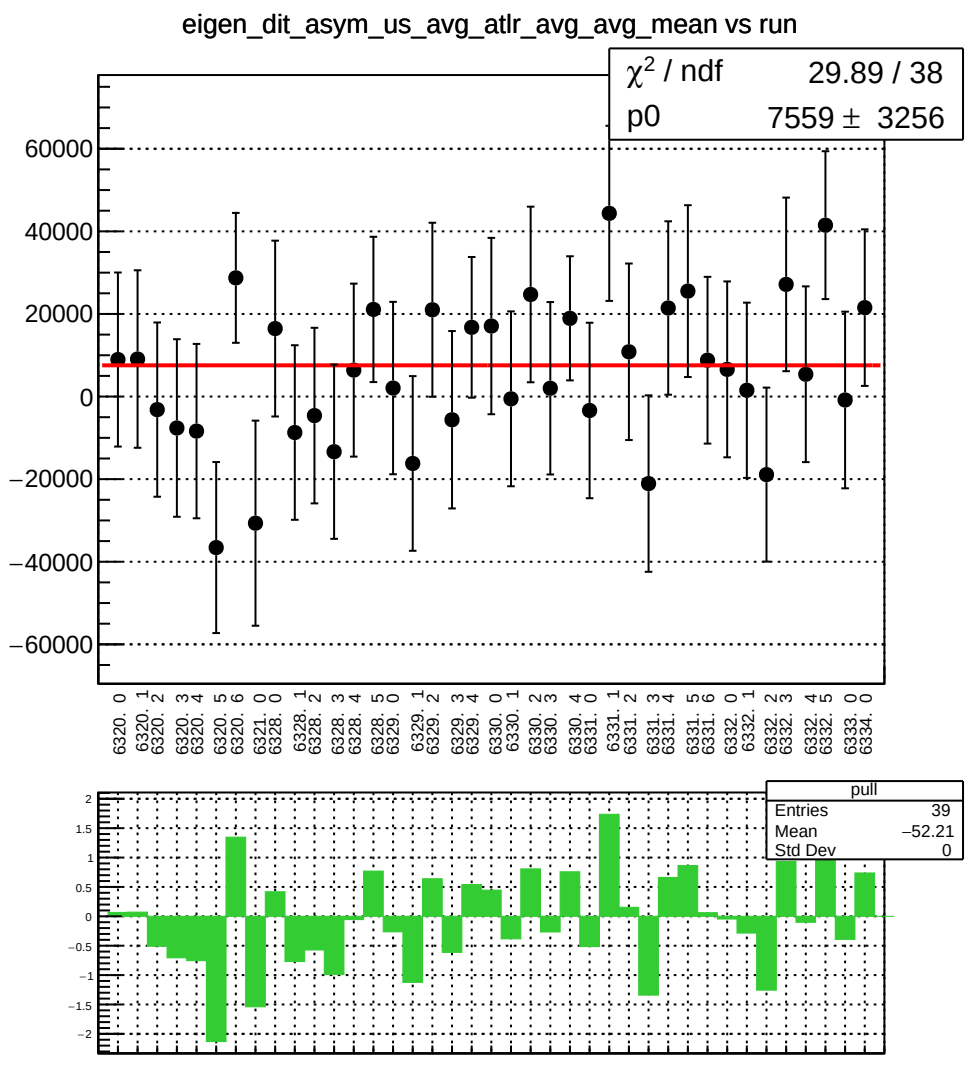

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 29.89 / 38
p0 7559 ± 3256
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

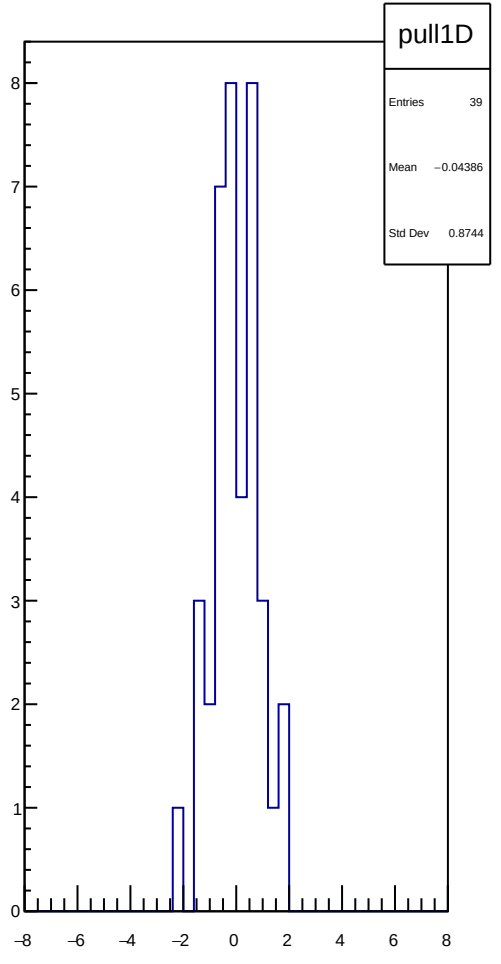

pull1D
Entries 39
Mean −0.04386
Std Dev 0.8744
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

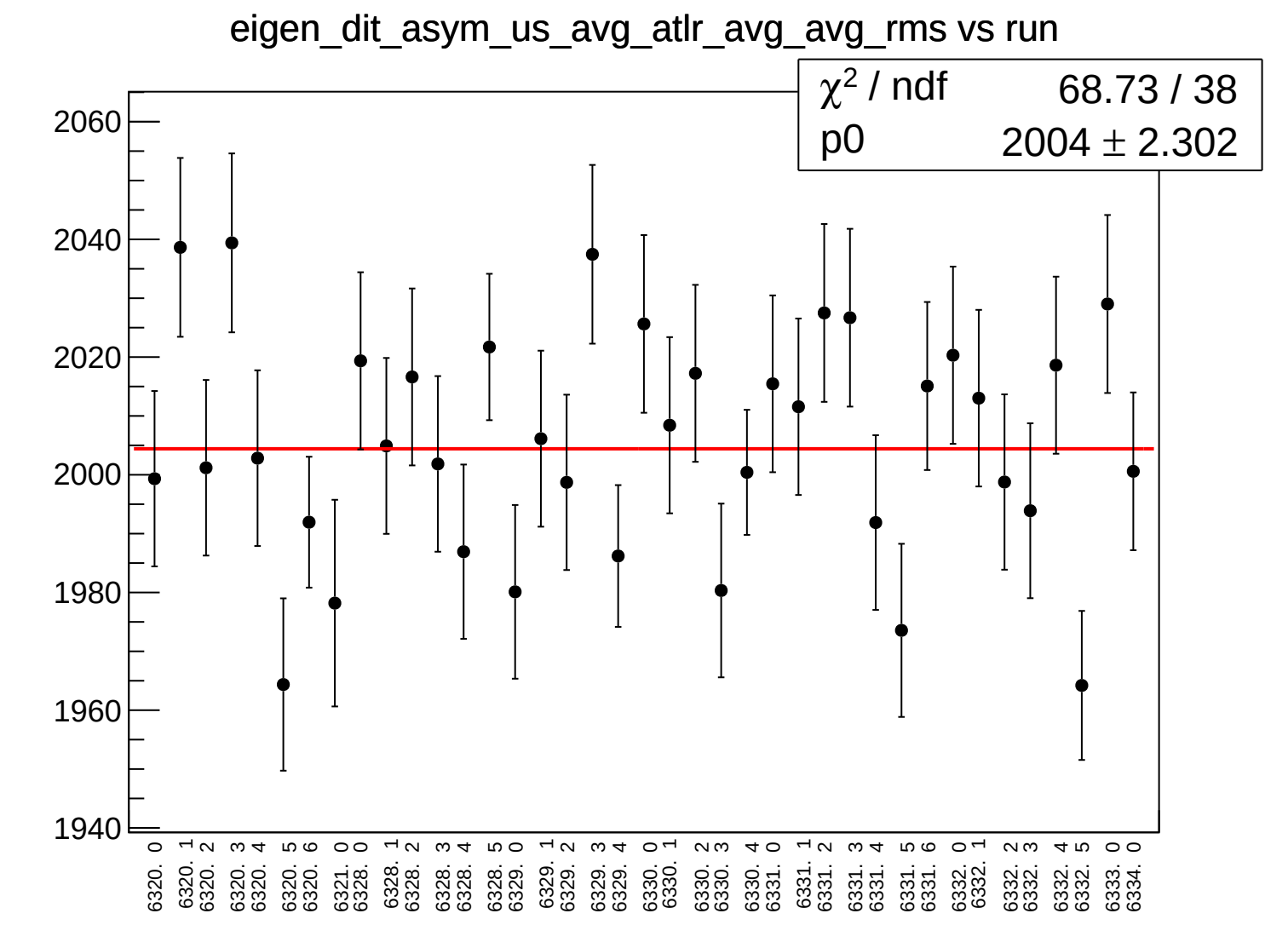

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 68.73 / 38
p0 2004 ± 2.302
2060
2040
2020
2000
1980
1960
1940
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

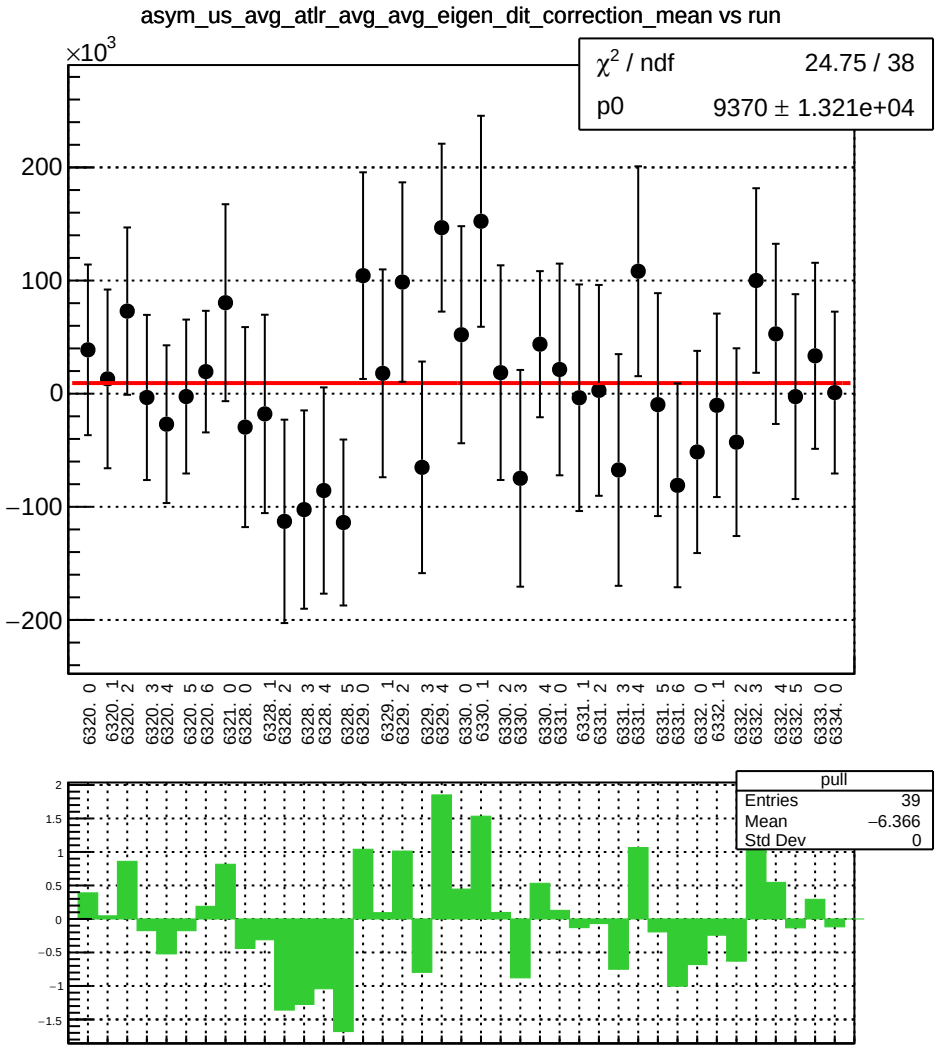

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 24.75 / 38
p0 9370 ± 1.321e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01401
Std Dev 0.7965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

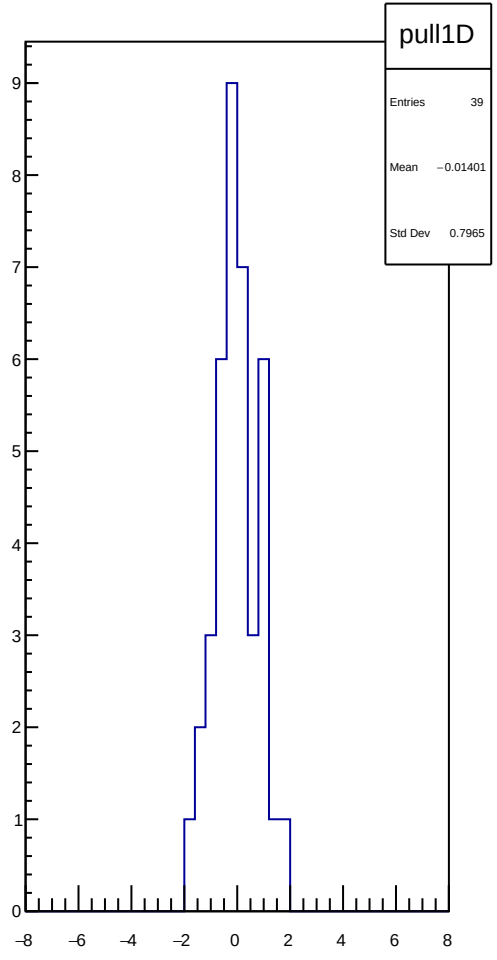

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 9446 / 38
p0 8080 ± 9.338
10000
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

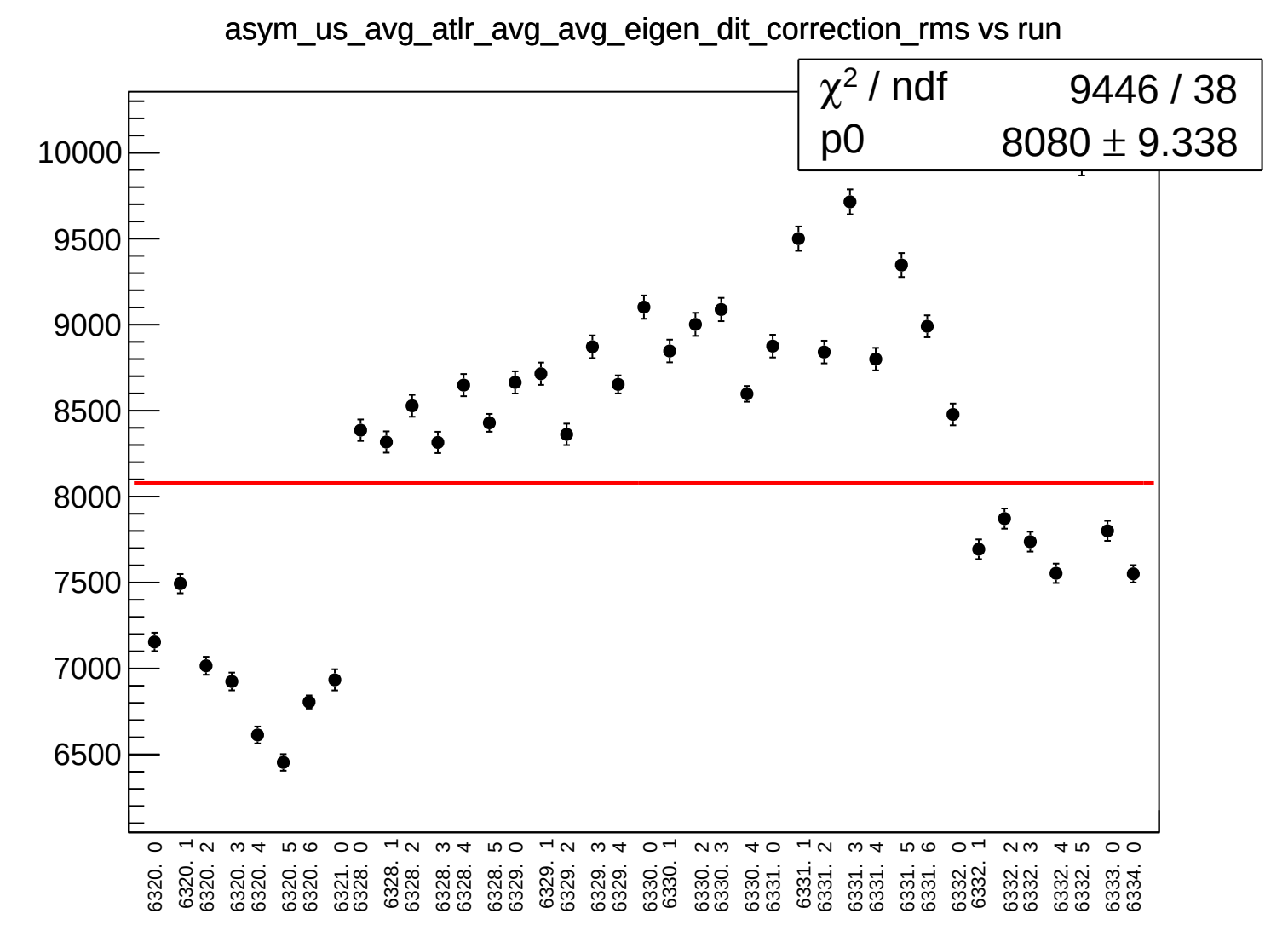

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 29.89 / 38
p0 7559 ± 3256
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

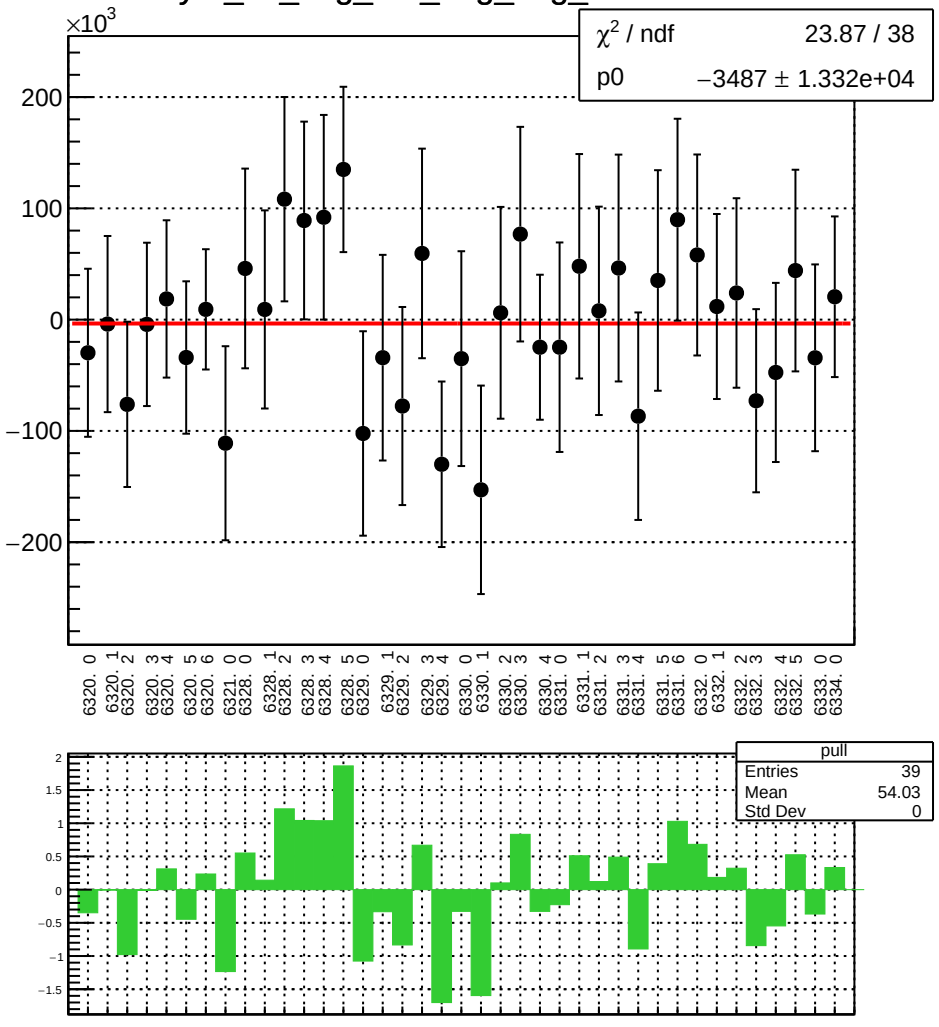

pull1D
Entries 39
Mean −0.04386
Std Dev 0.8744
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

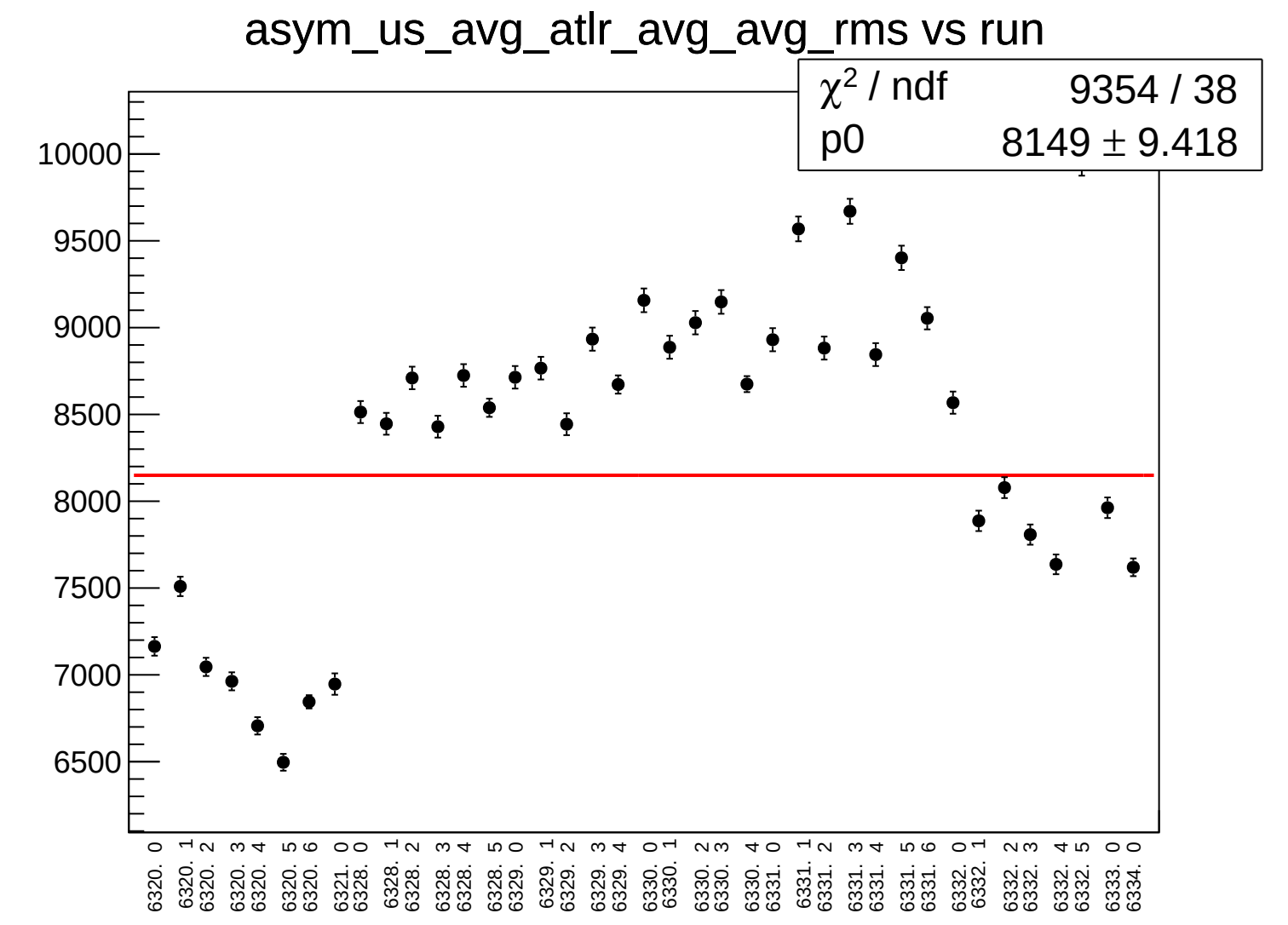

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 68.73 / 38
p0 2004 ± 2.302
2060
2040
2020
2000
1980
1960
1940
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

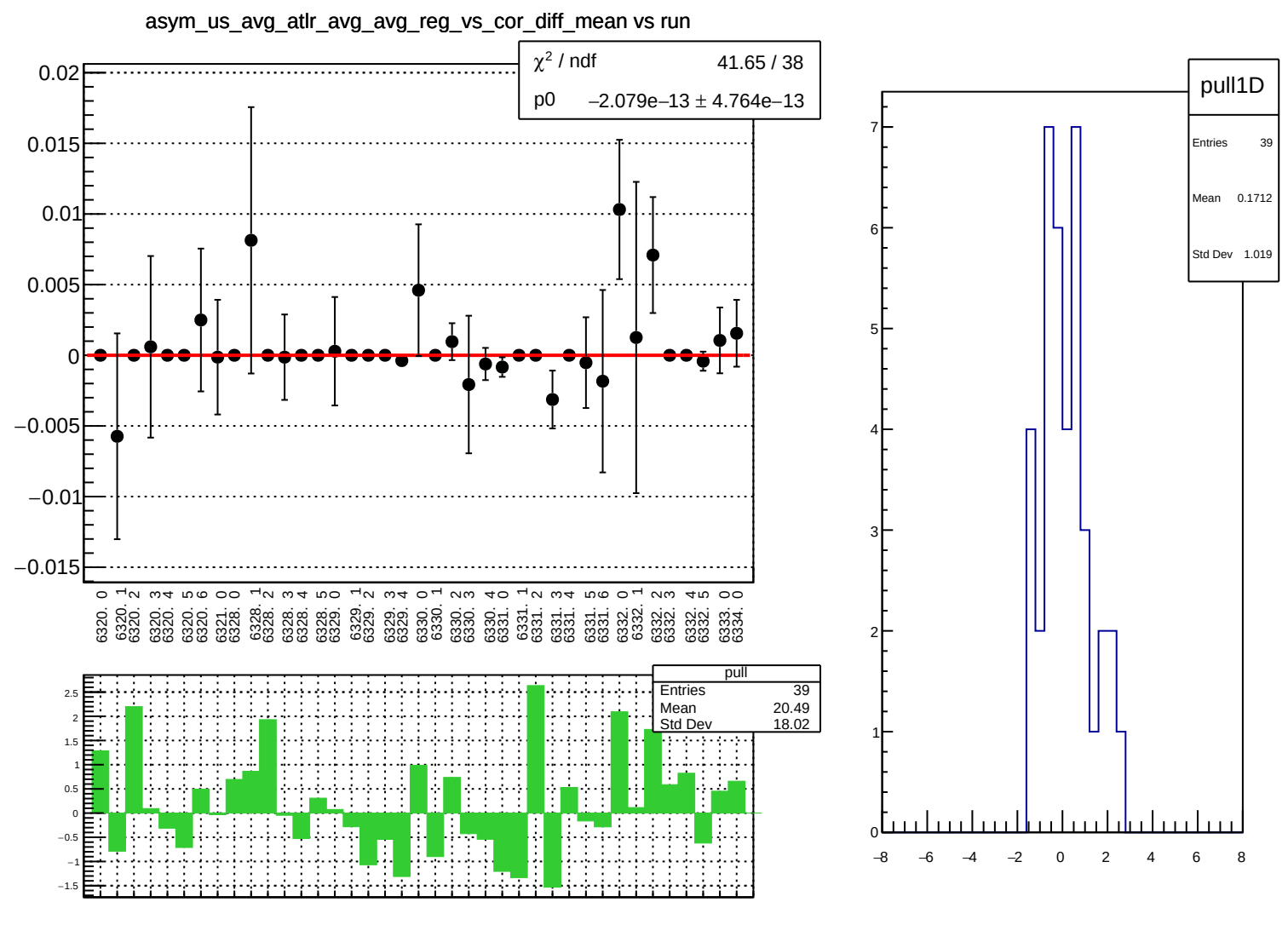

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.75 / 38
p0 9370 ± 1.321e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

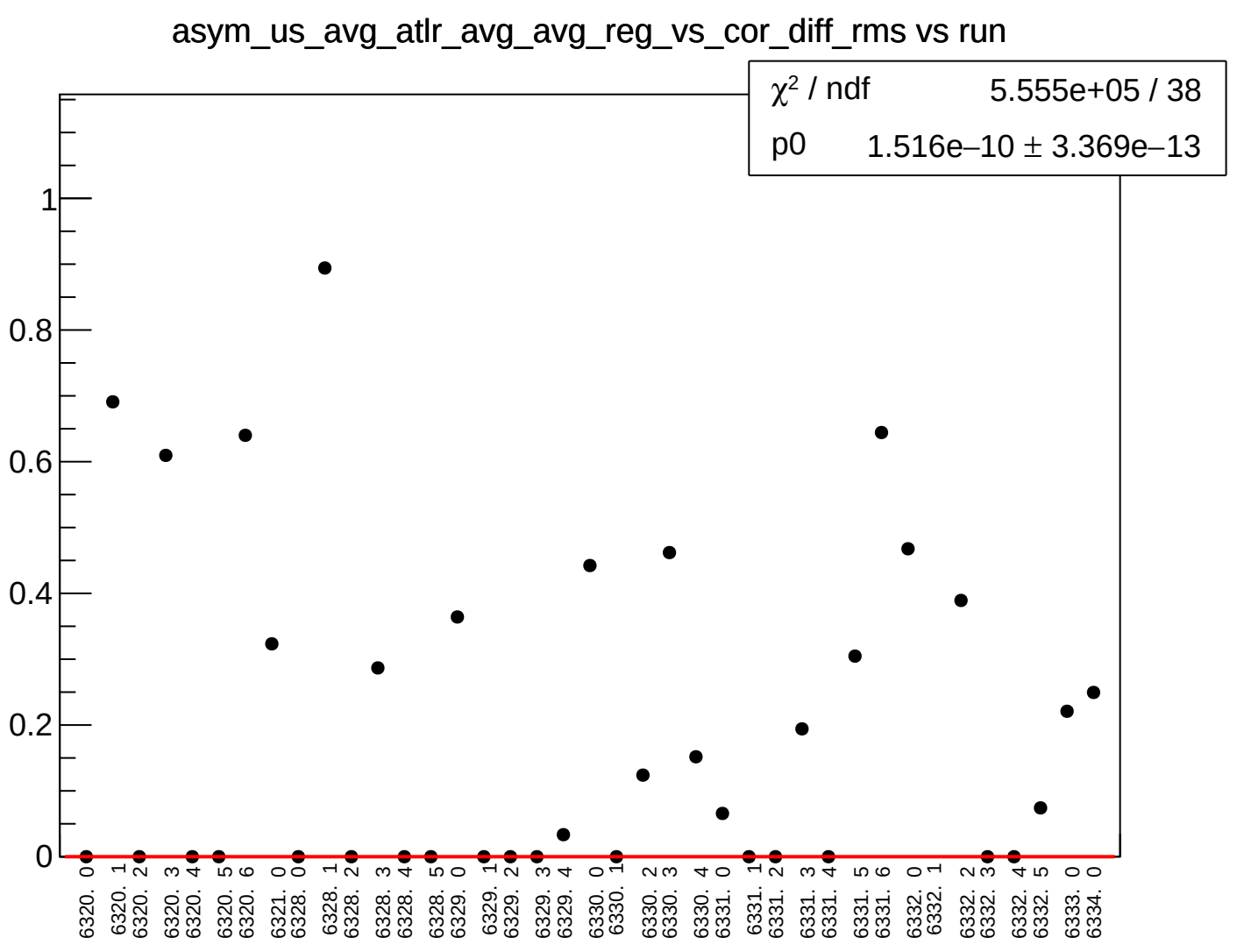

pull1D
Entries 39
Mean −0.01401
Std Dev 0.7965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

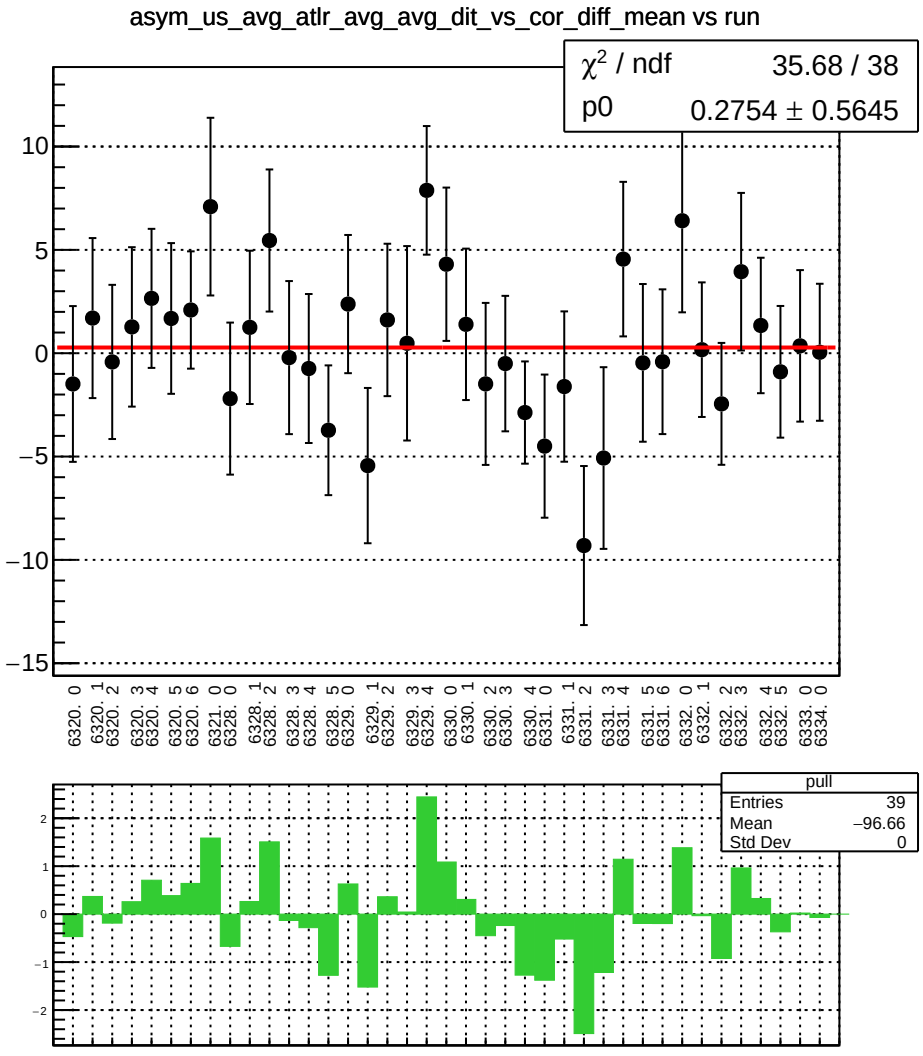

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9446 / 38
p0 8080 ± 9.338
10000
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

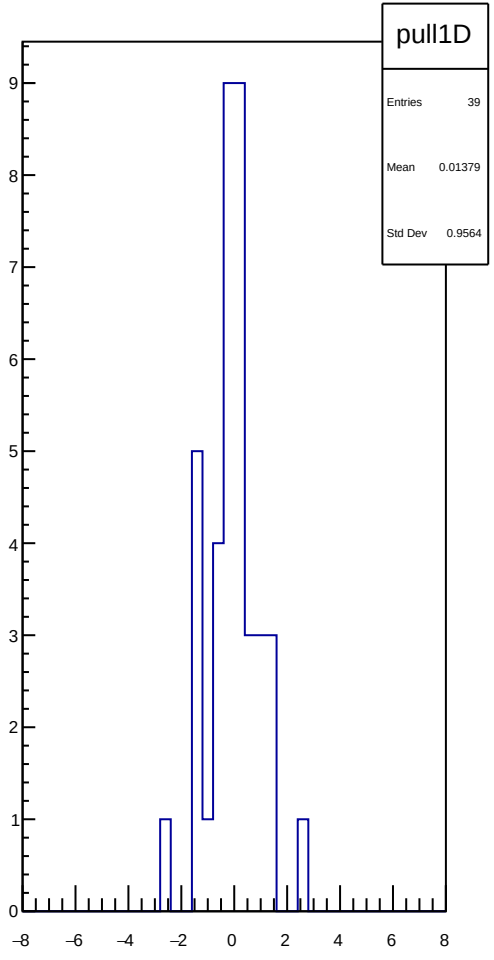

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 23.87 / 38
p0 −3487 ± 1.332e+04
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01277
Std Dev 0.7822
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

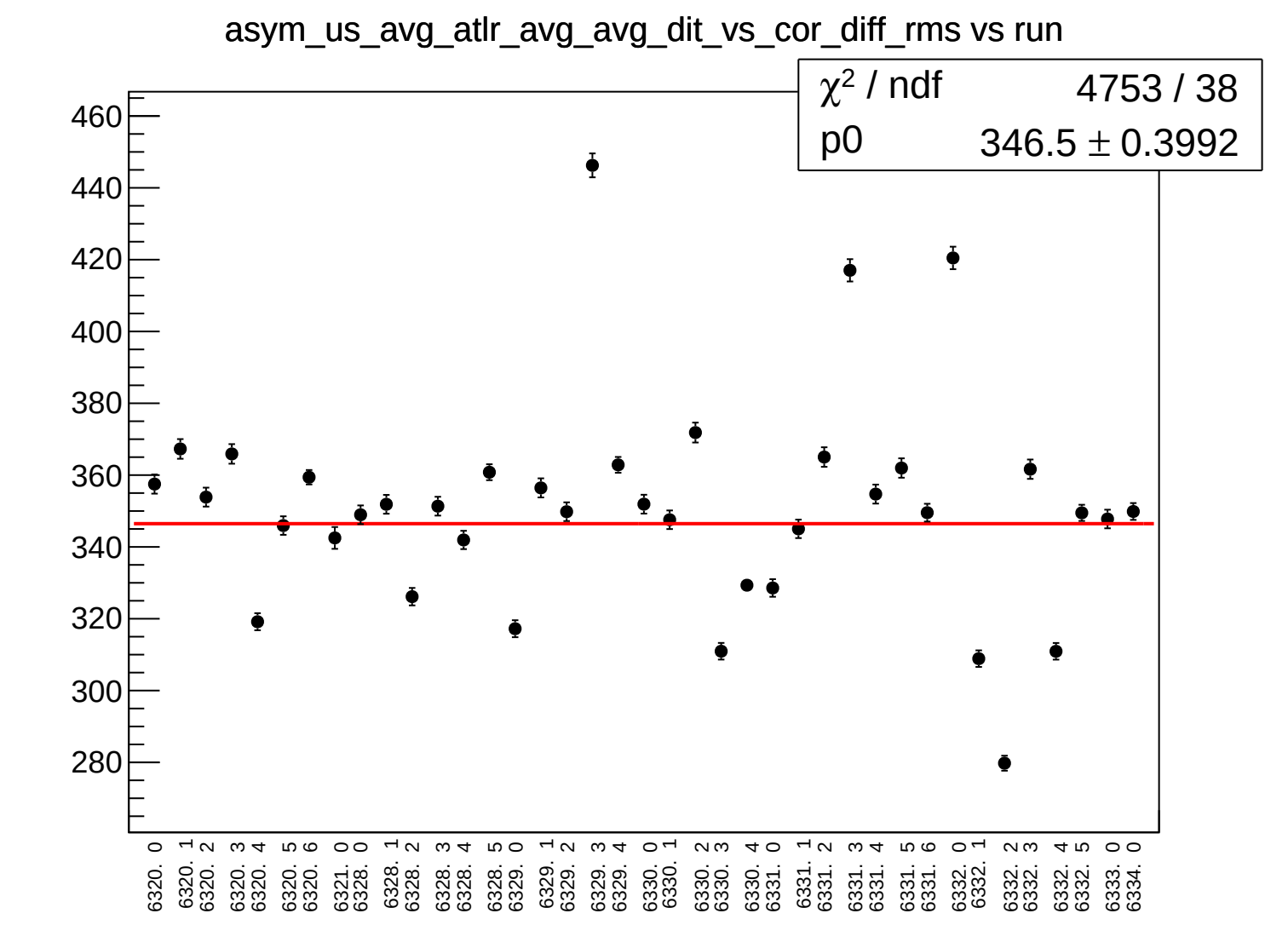

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 9354 / 38
p0 8149 ± 9.418
10000
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

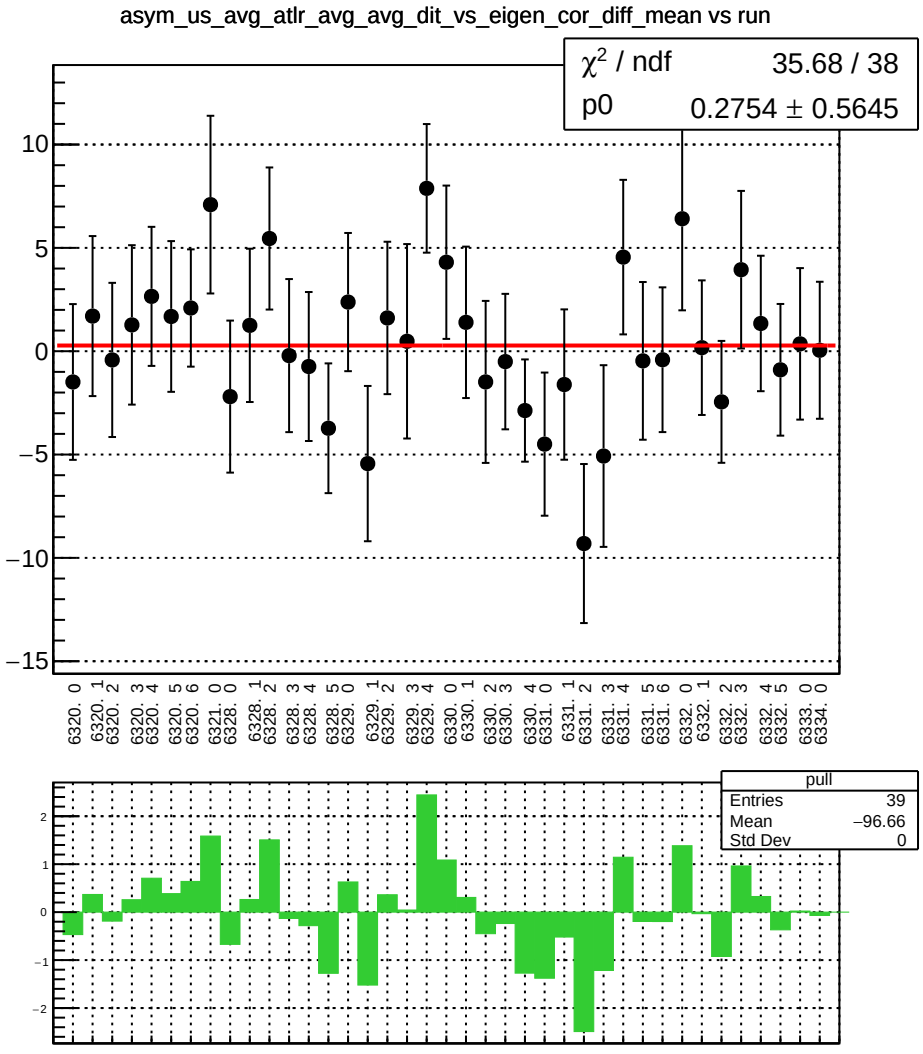

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.65 / 38
p0 −2.079e−13 ± 4.764e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.49
Std Dev 18.02
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.1712
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

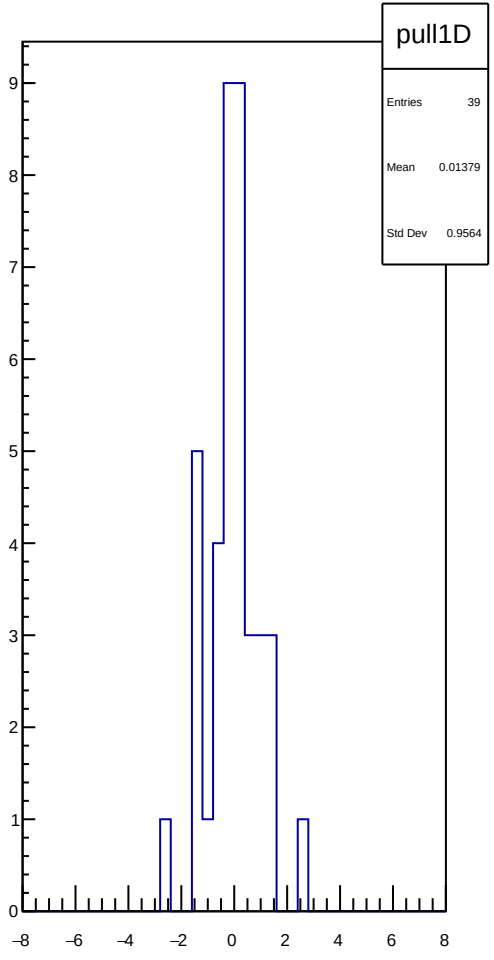

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.555e+05 / 38
p0 1.516e−10 ± 3.369e−13
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

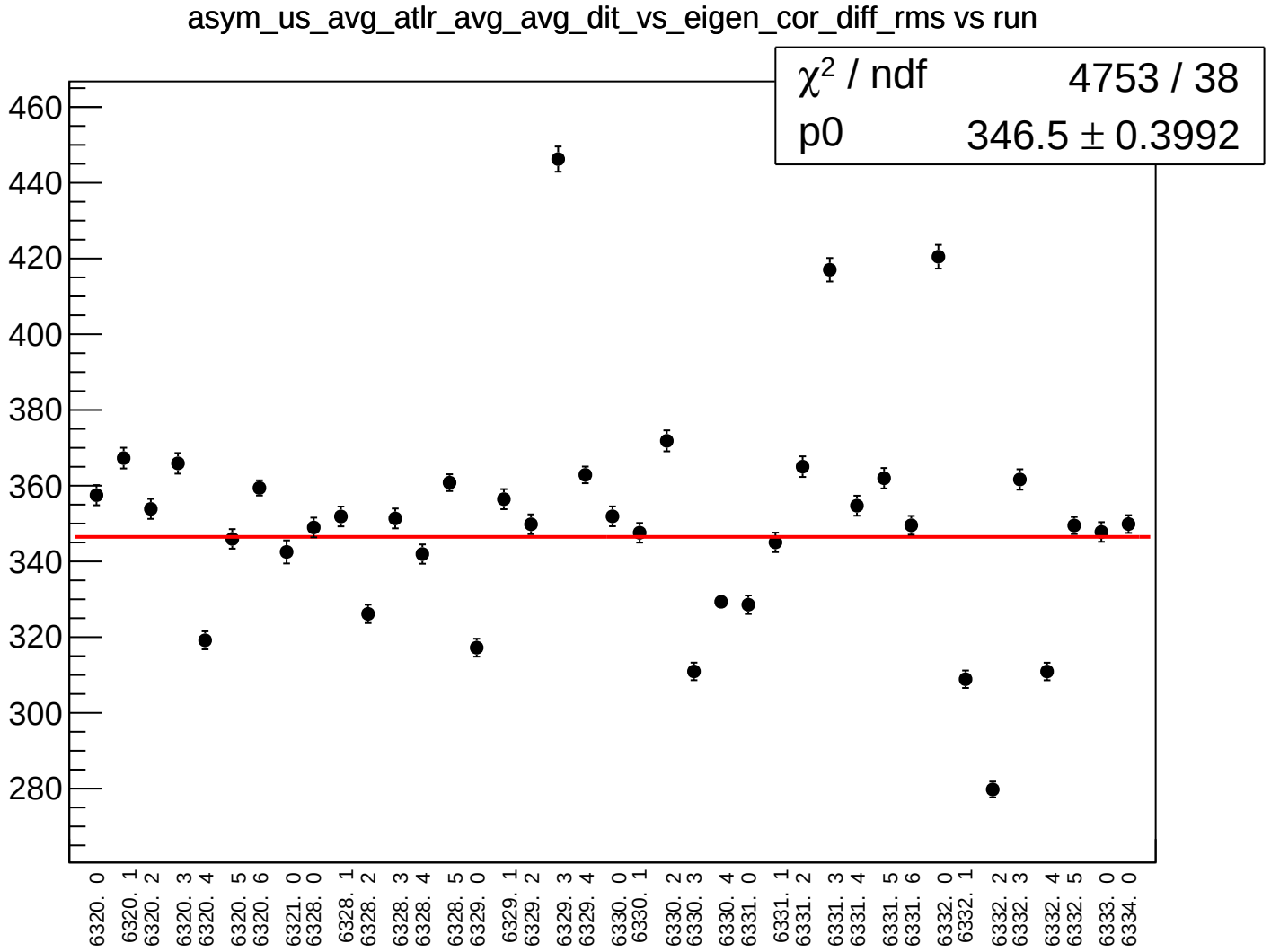

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.68 / 38
p0 0.2754 ± 0.5645
pull
Entries 39
Mean −96.66
Std Dev 0

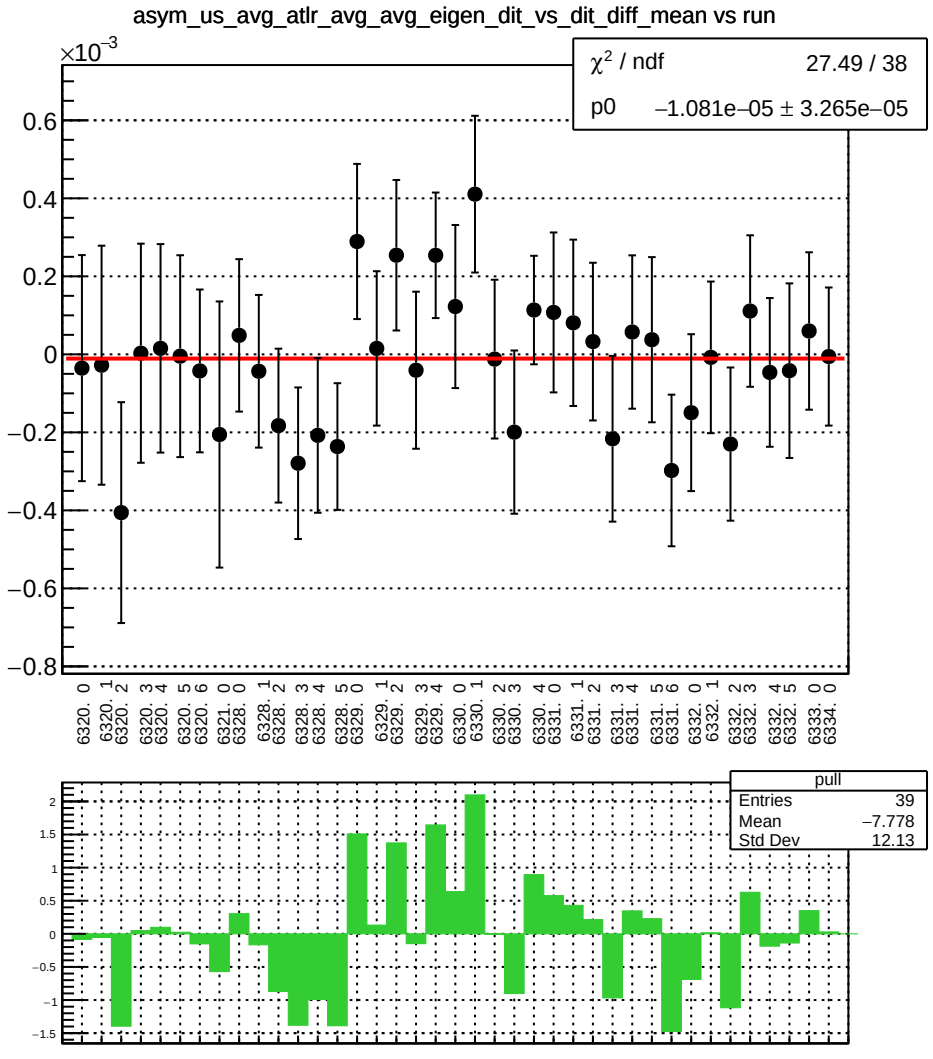

pull1D
Entries 39
Mean 0.01379
Std Dev 0.9564

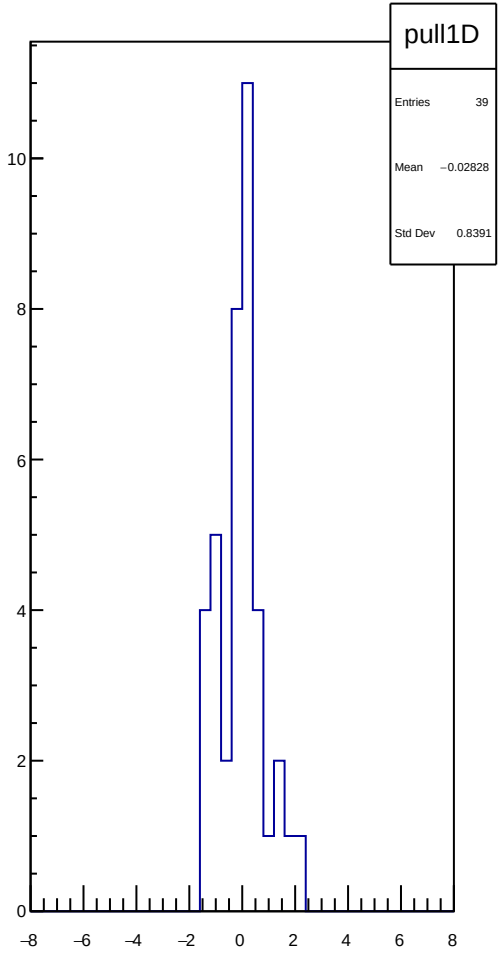

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4753 / 38
p0 346.5 ± 0.3992
460
440
420
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

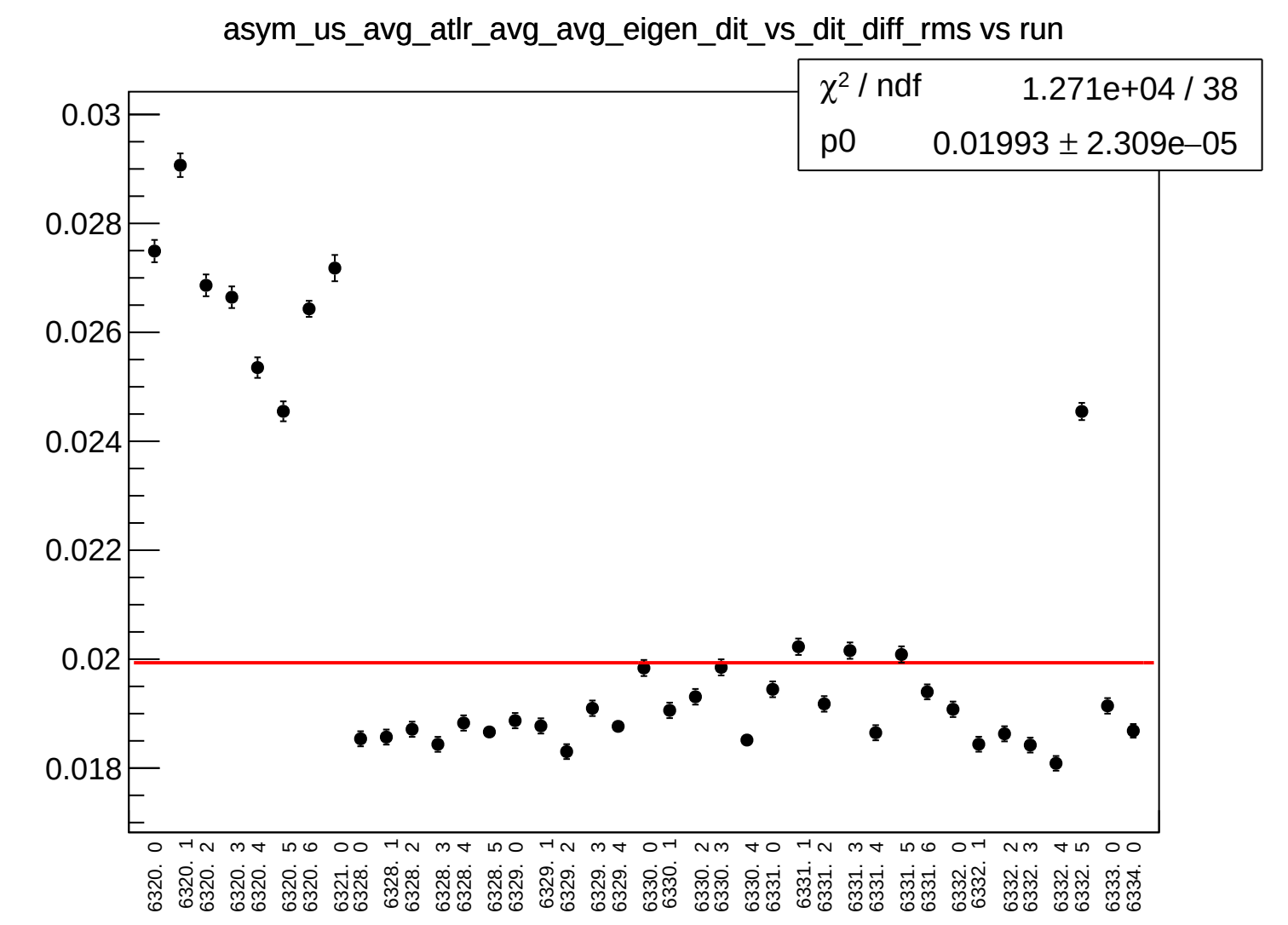

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.68 / 38
p0 0.2754 ± 0.5645
pull
Entries 39
Mean −96.66
Std Dev 0

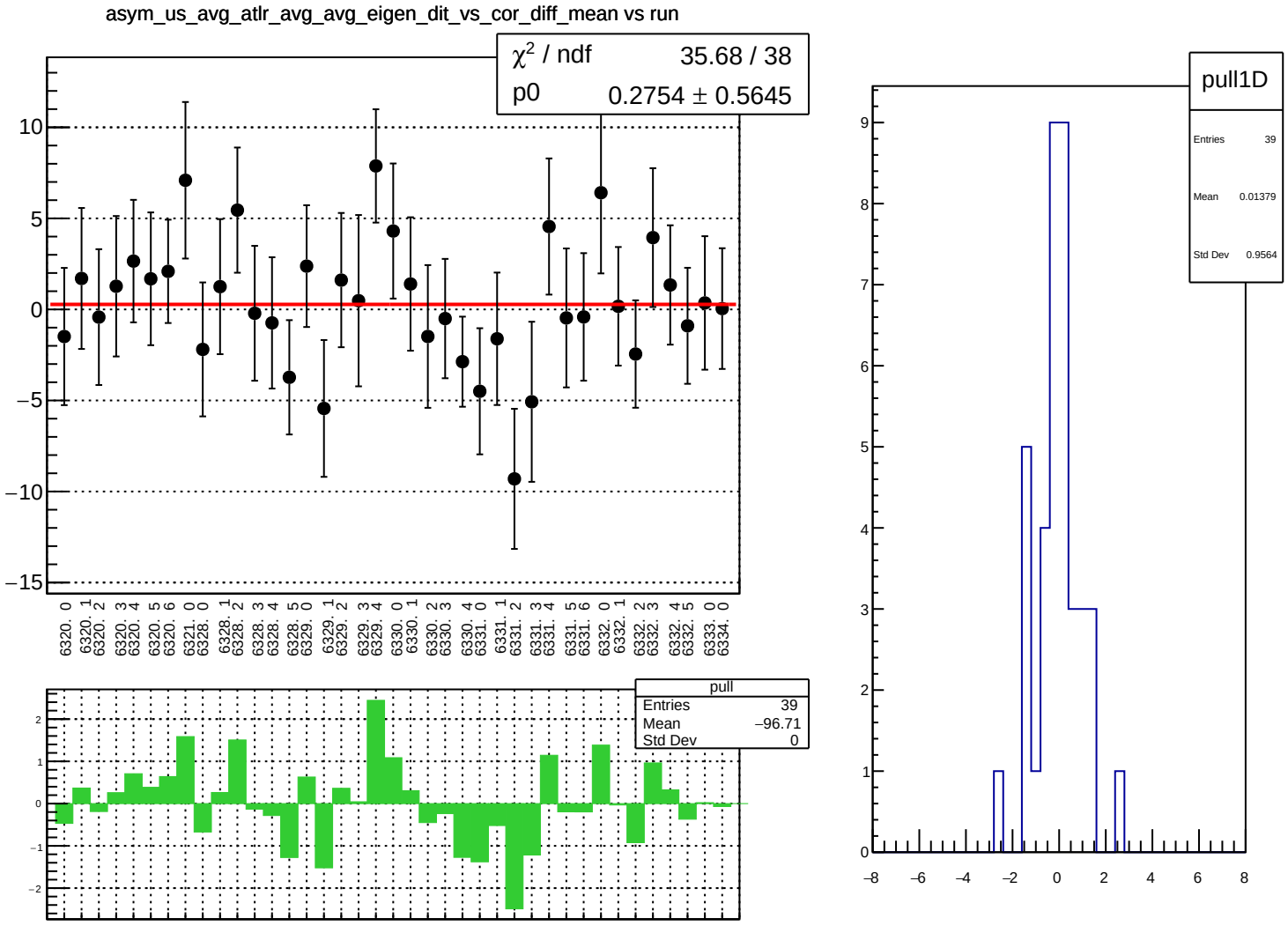

pull1D
Entries 39
Mean 0.01379
Std Dev 0.9564

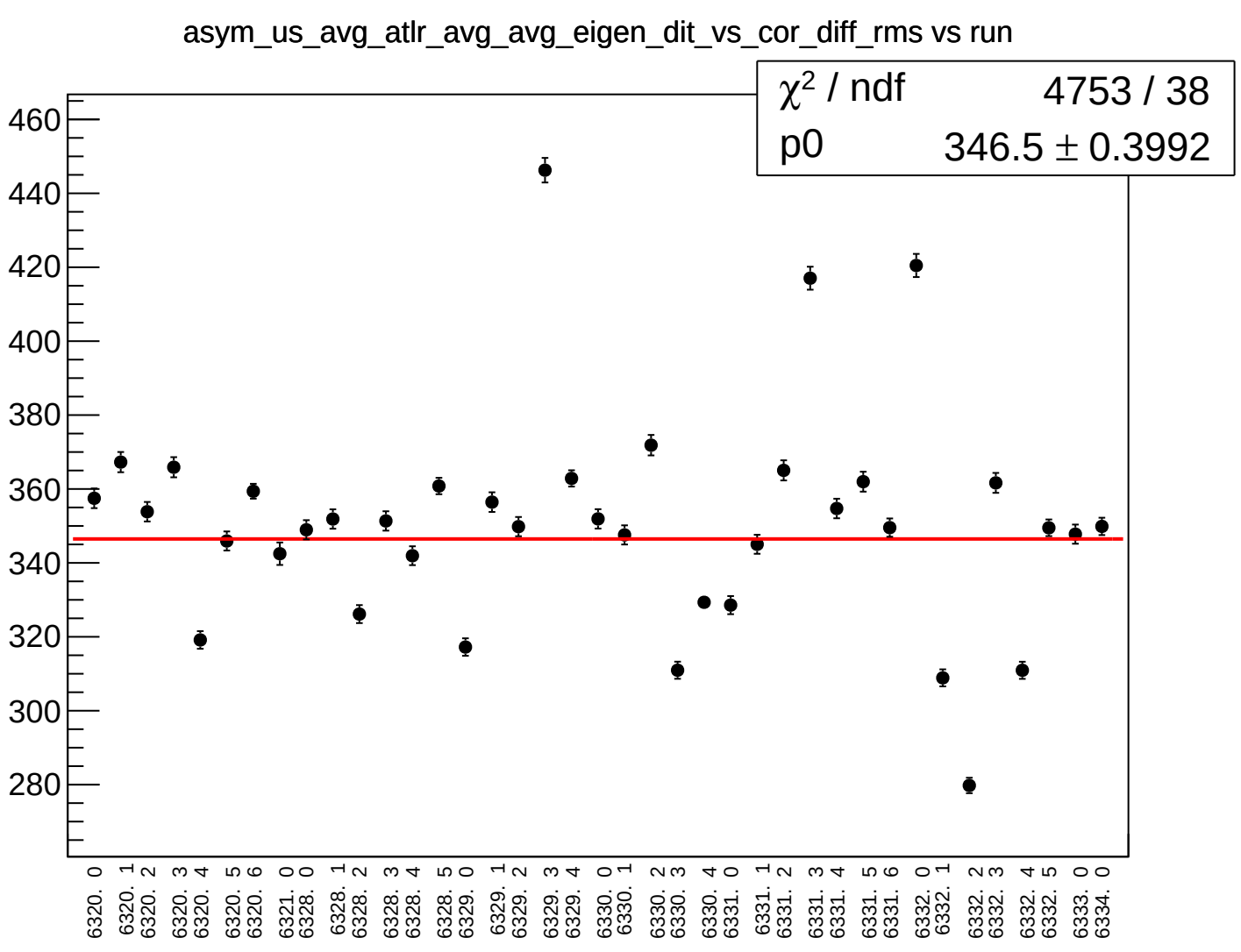

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4753 / 38
p0 346.5 ± 0.3992
460
440
420
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

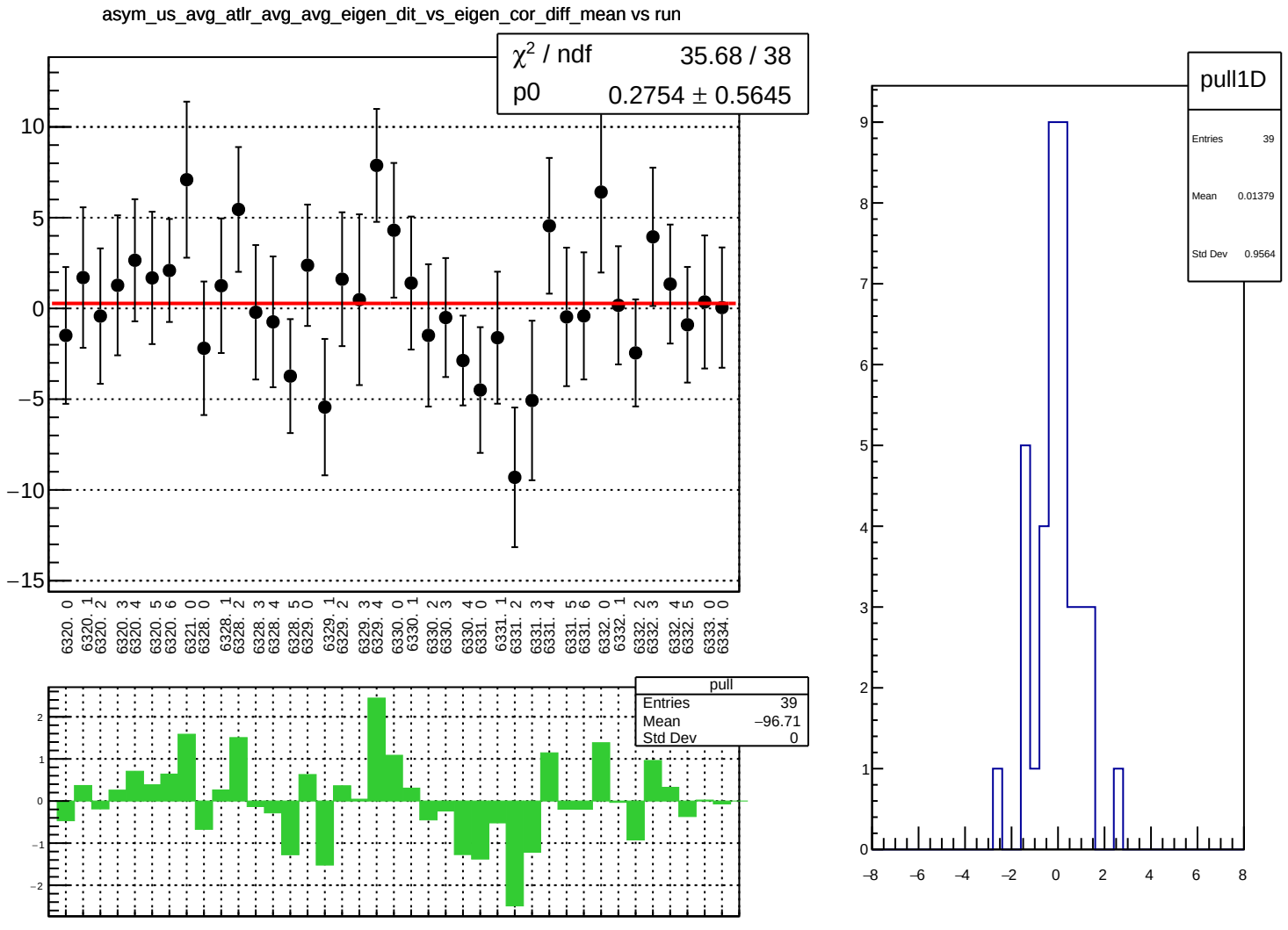

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.49 / 38
p0 −1.081e−05 ± 3.265e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.778
Std Dev 12.13
2
1.5
1
0.5
0
−0.5
−1
−1.5

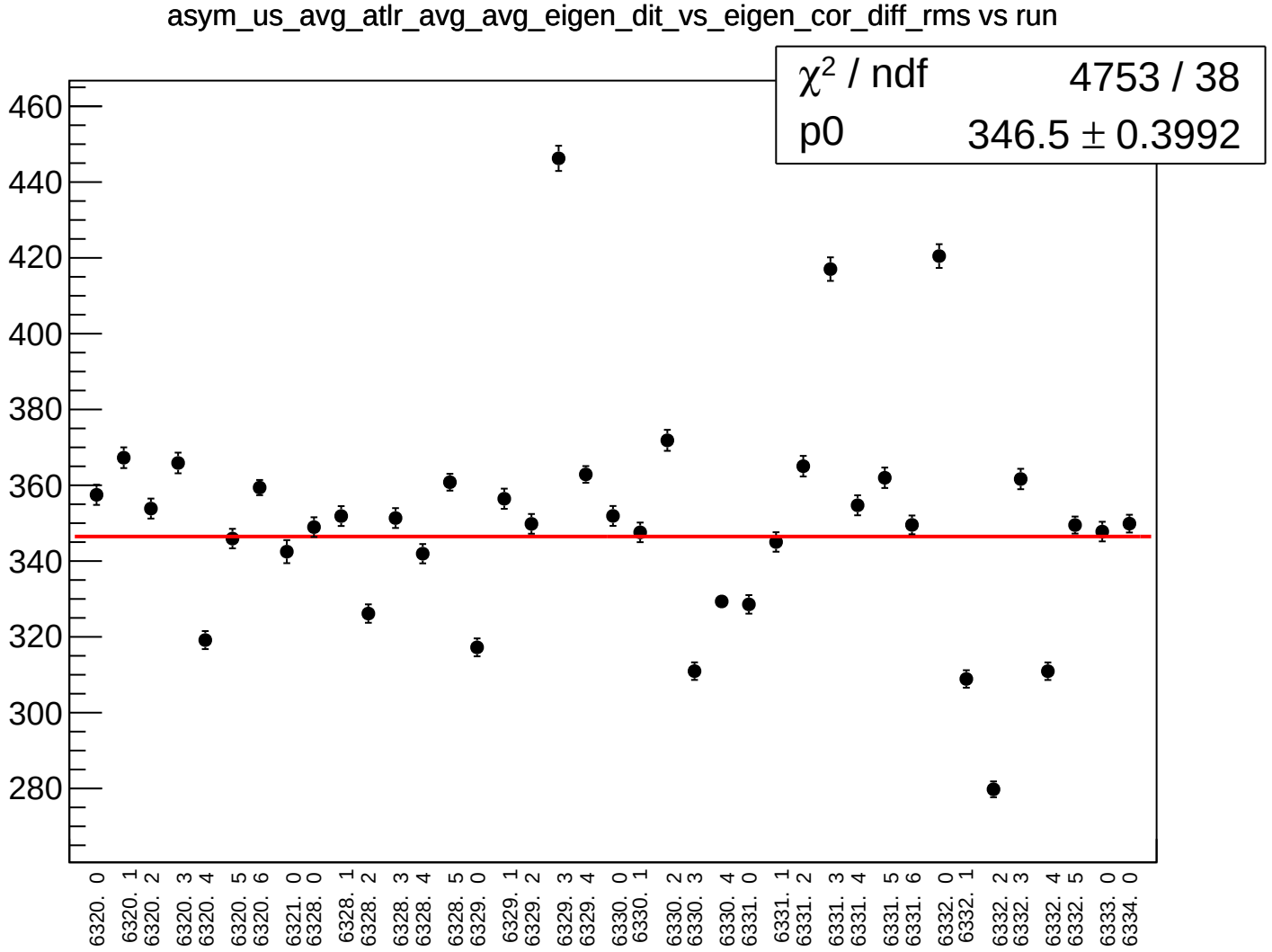

pull1D
Entries 39
Mean −0.02828
Std Dev 0.8391
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

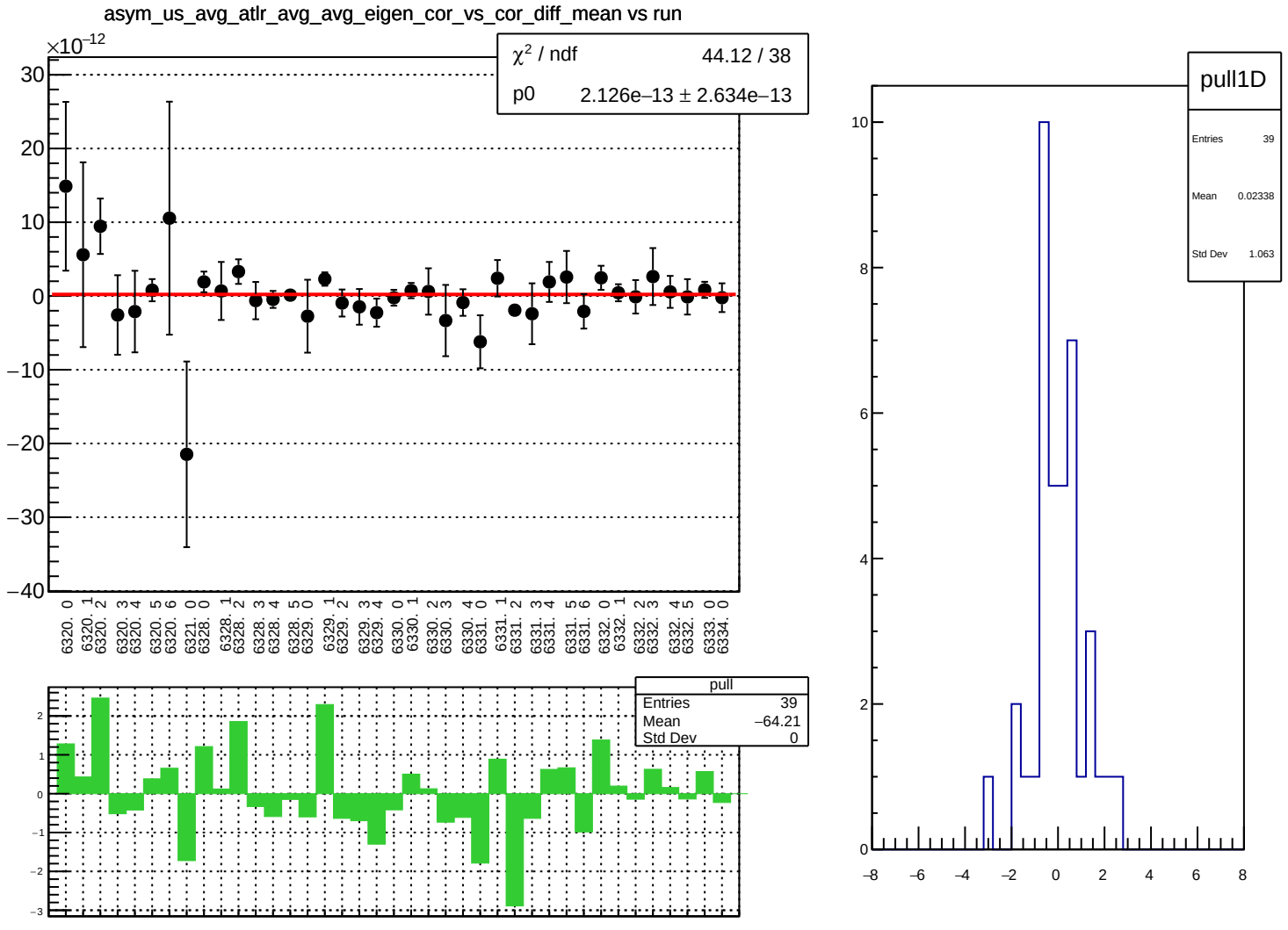

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.271e+04 / 38
p0 0.01993 ± 2.309e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

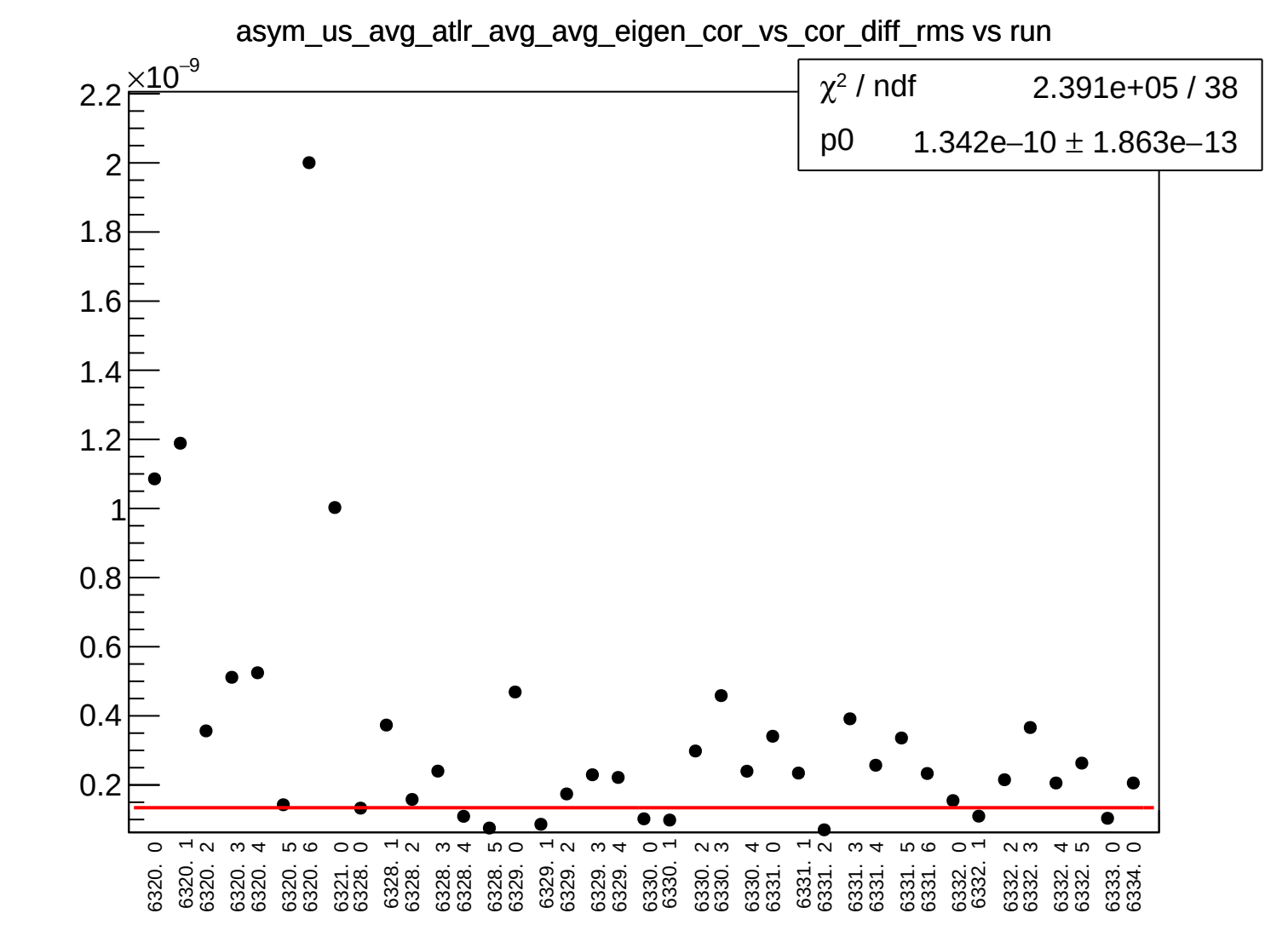

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.68 / 38
p0 0.2754 ± 0.5645
pull
Entries 39
Mean −96.71
Std Dev 0
pull1D
Entries 39
Mean 0.01379
Std Dev 0.9564

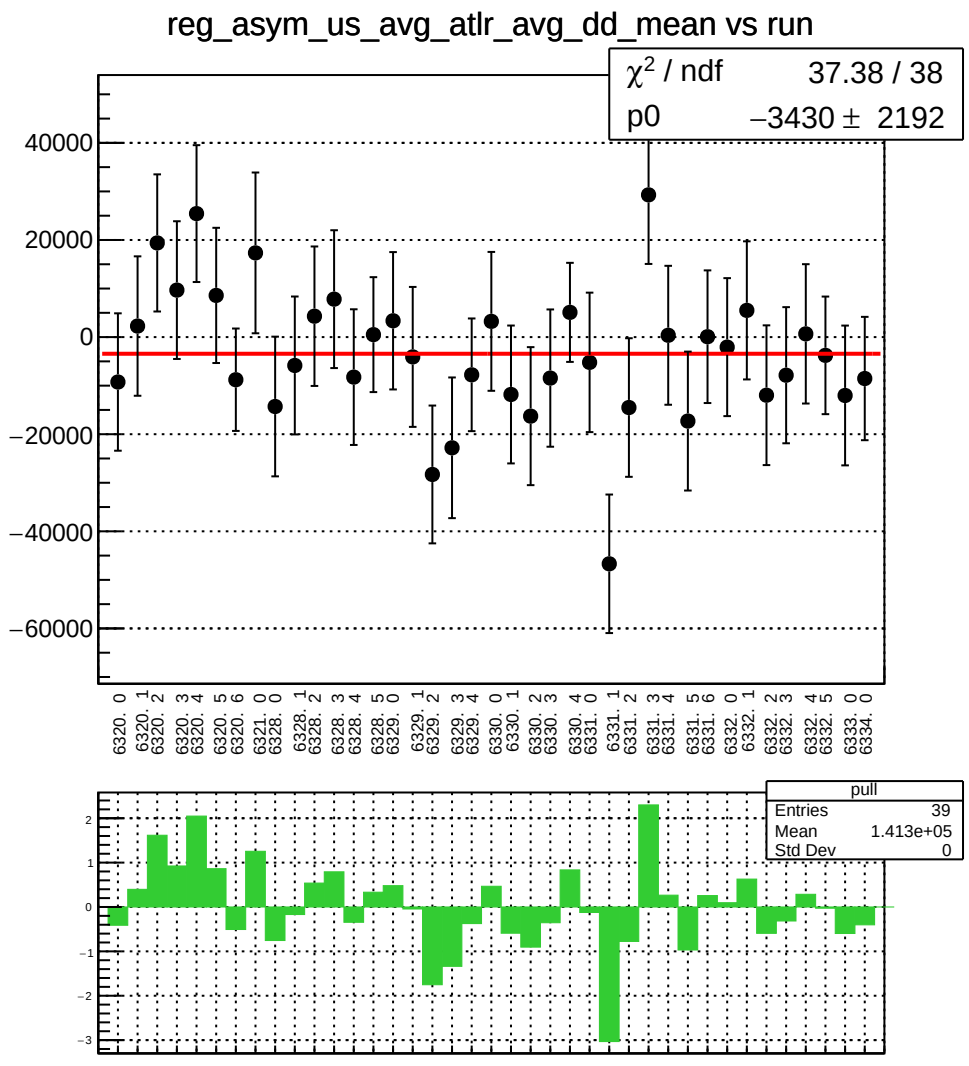

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4753 / 38
p0 346.5 ± 0.3992
460
440
420
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

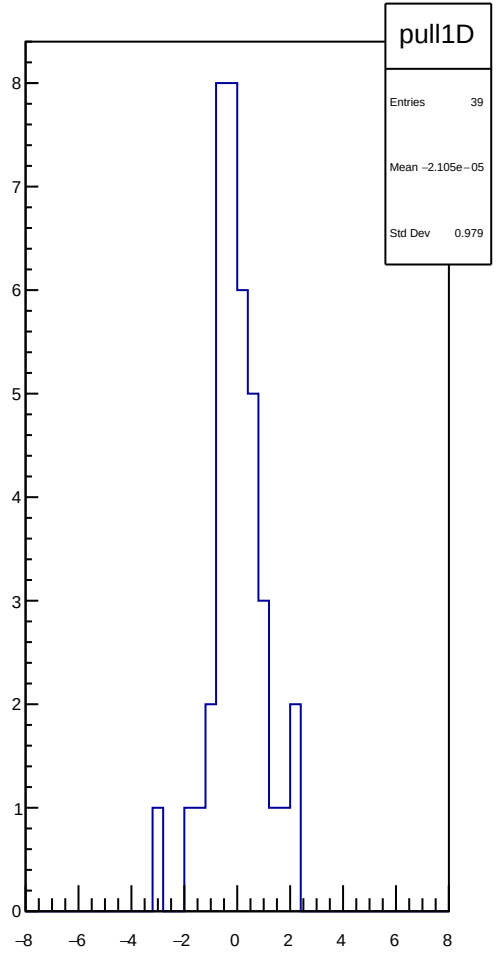

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.68 / 38
p0 0.2754 ± 0.5645
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −96.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01379
Std Dev 0.9564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

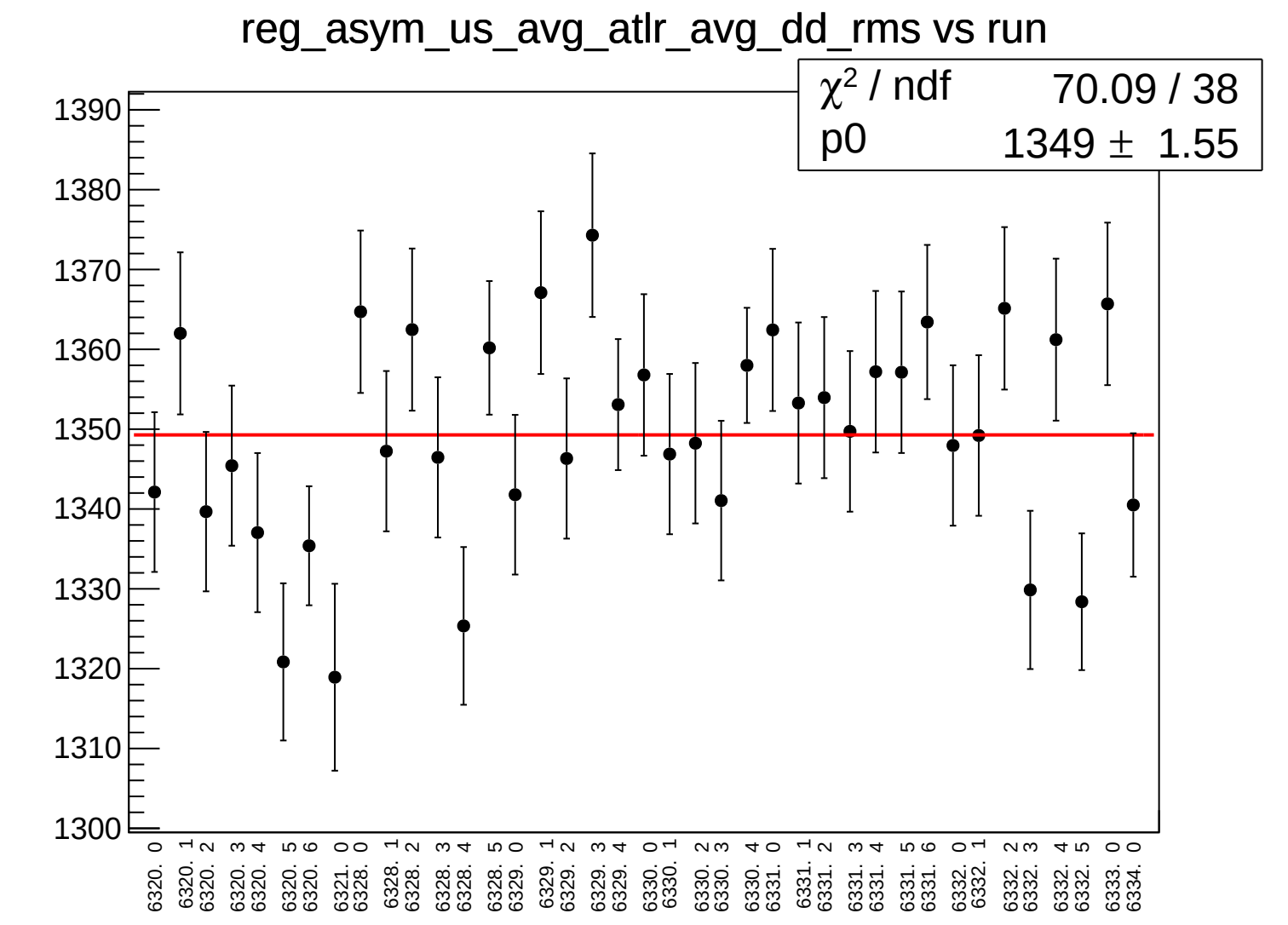

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4753 / 38
p0 346.5 ± 0.3992
460
440
420
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

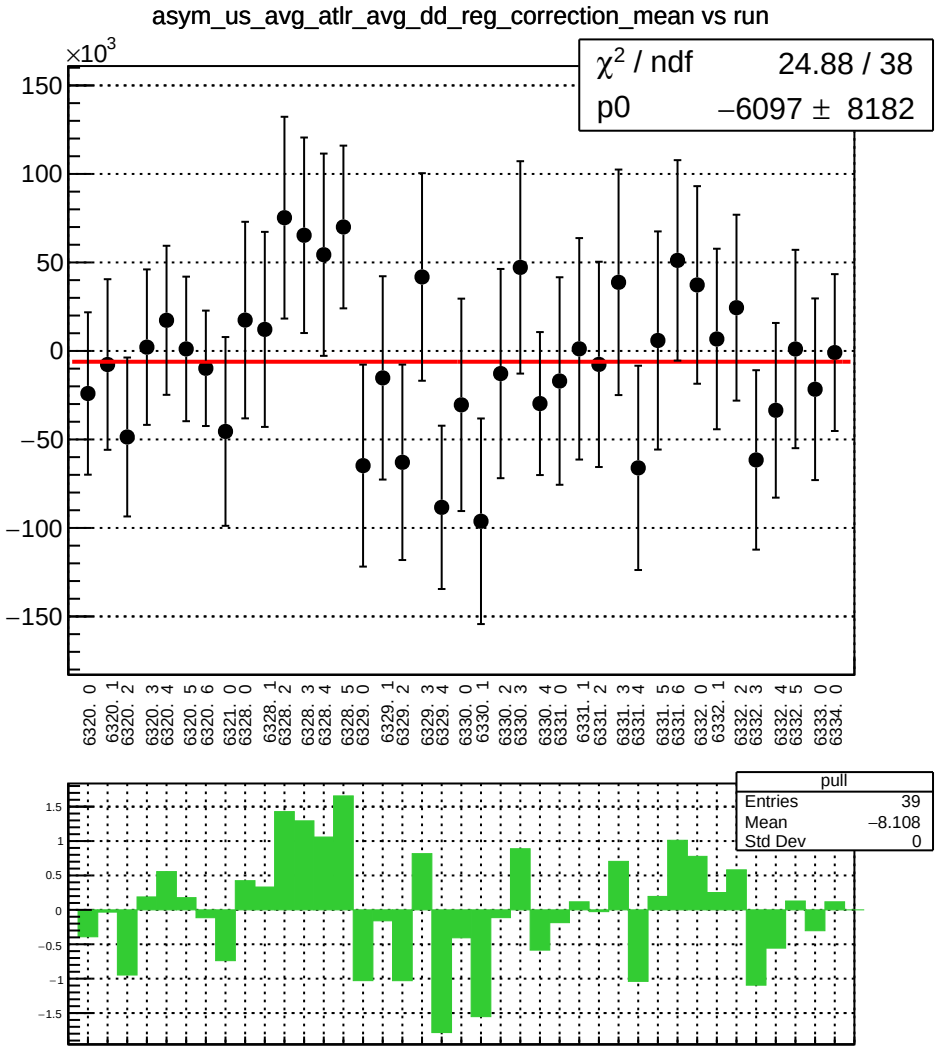

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.12 / 38
p0 2.126e−13 ± 2.634e−13
pull
Entries 39
Mean −64.21
Std Dev 0
pull1D
Entries 39
Mean 0.02338
Std Dev 1.063

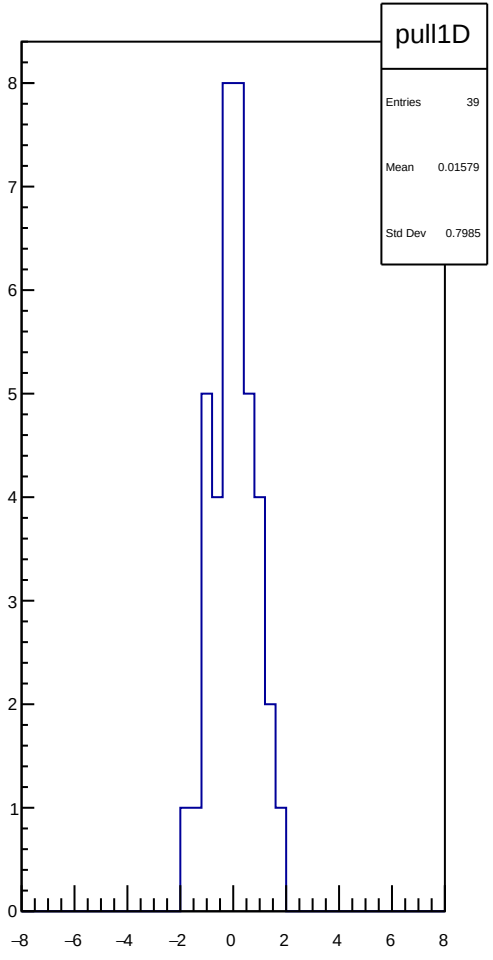

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.391e+05 / 38
p0 1.342e−10 ± 1.863e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

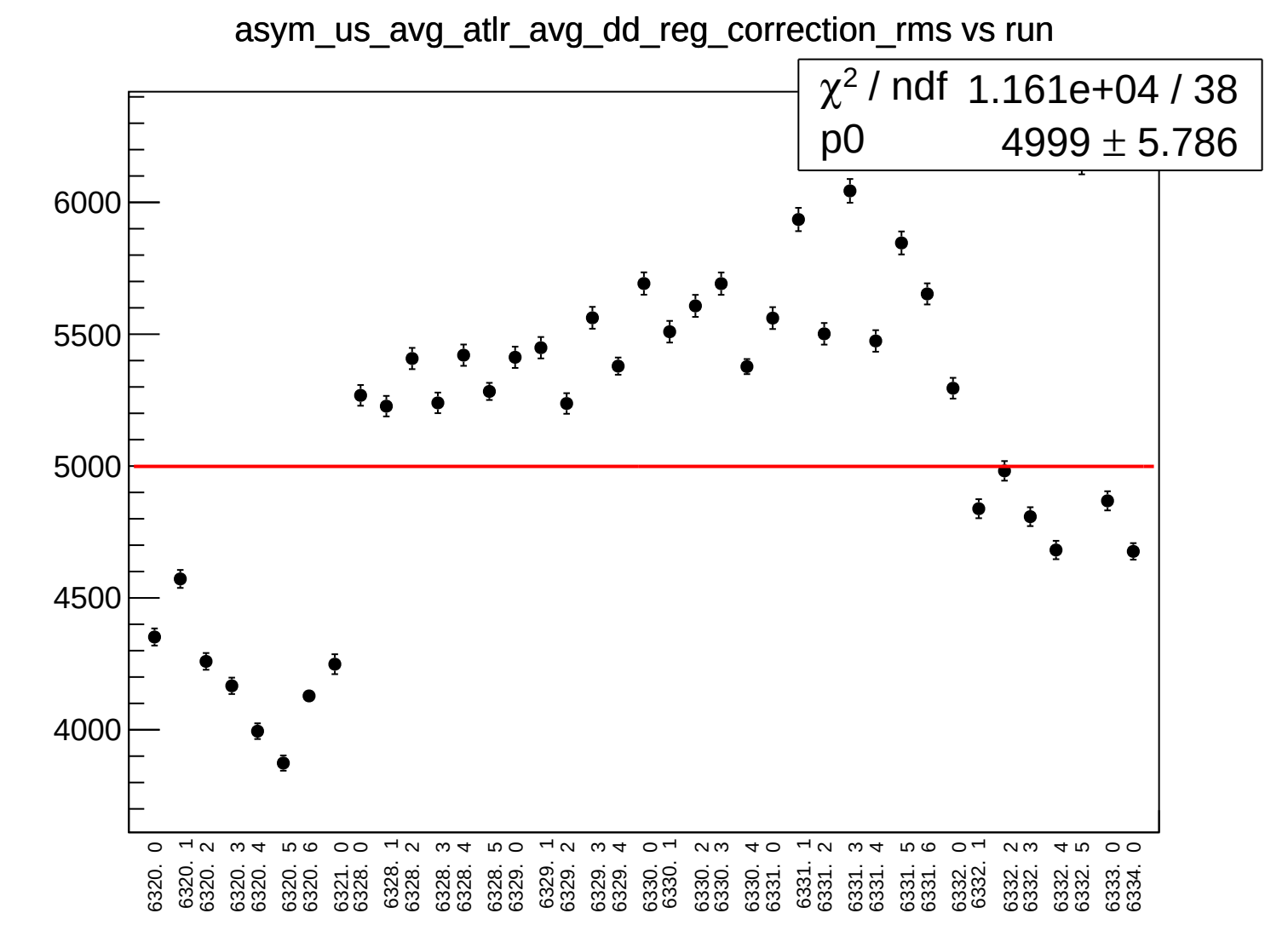

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 37.38 / 38
p0 −3430 ± 2192
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.413e+05
Std Dev 0
2
1
0
−1
−2
−3

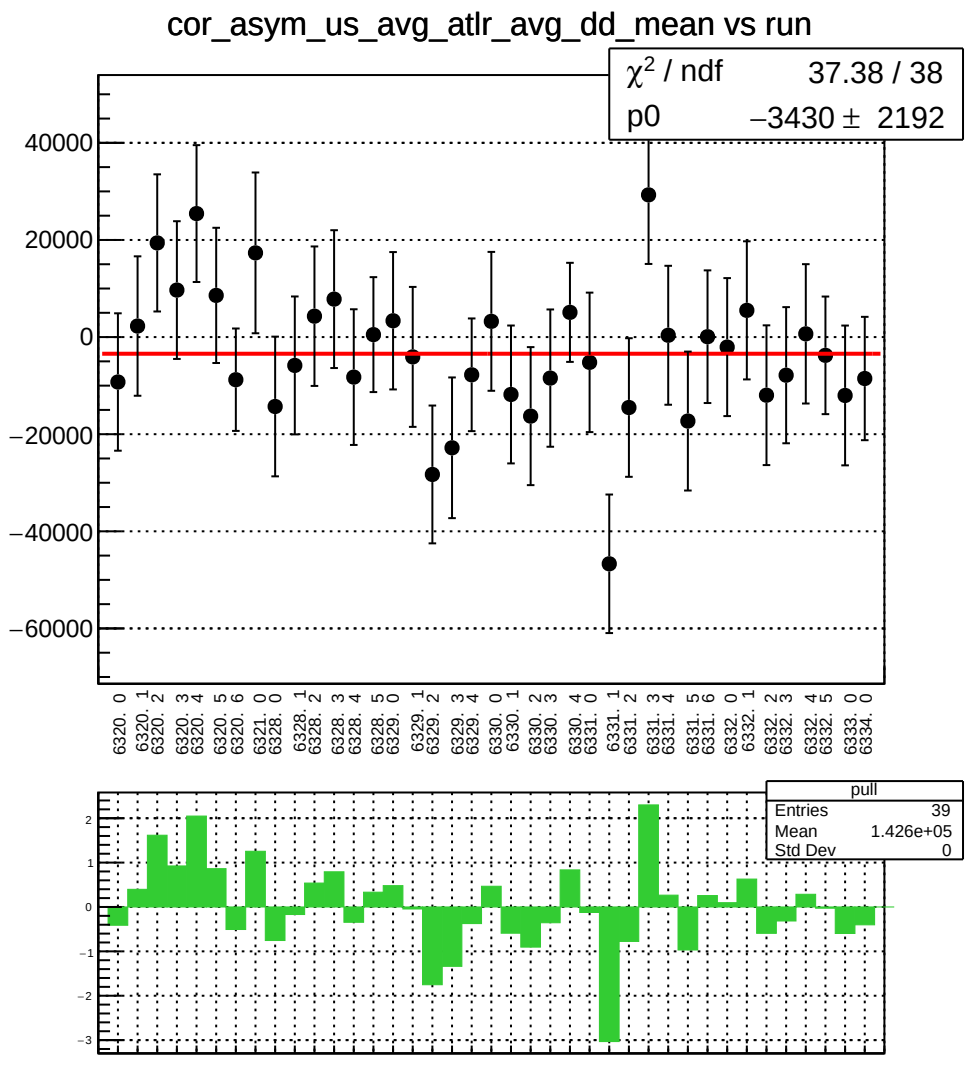

pull1D
Entries 39
Mean −2.105e−05
Std Dev 0.979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

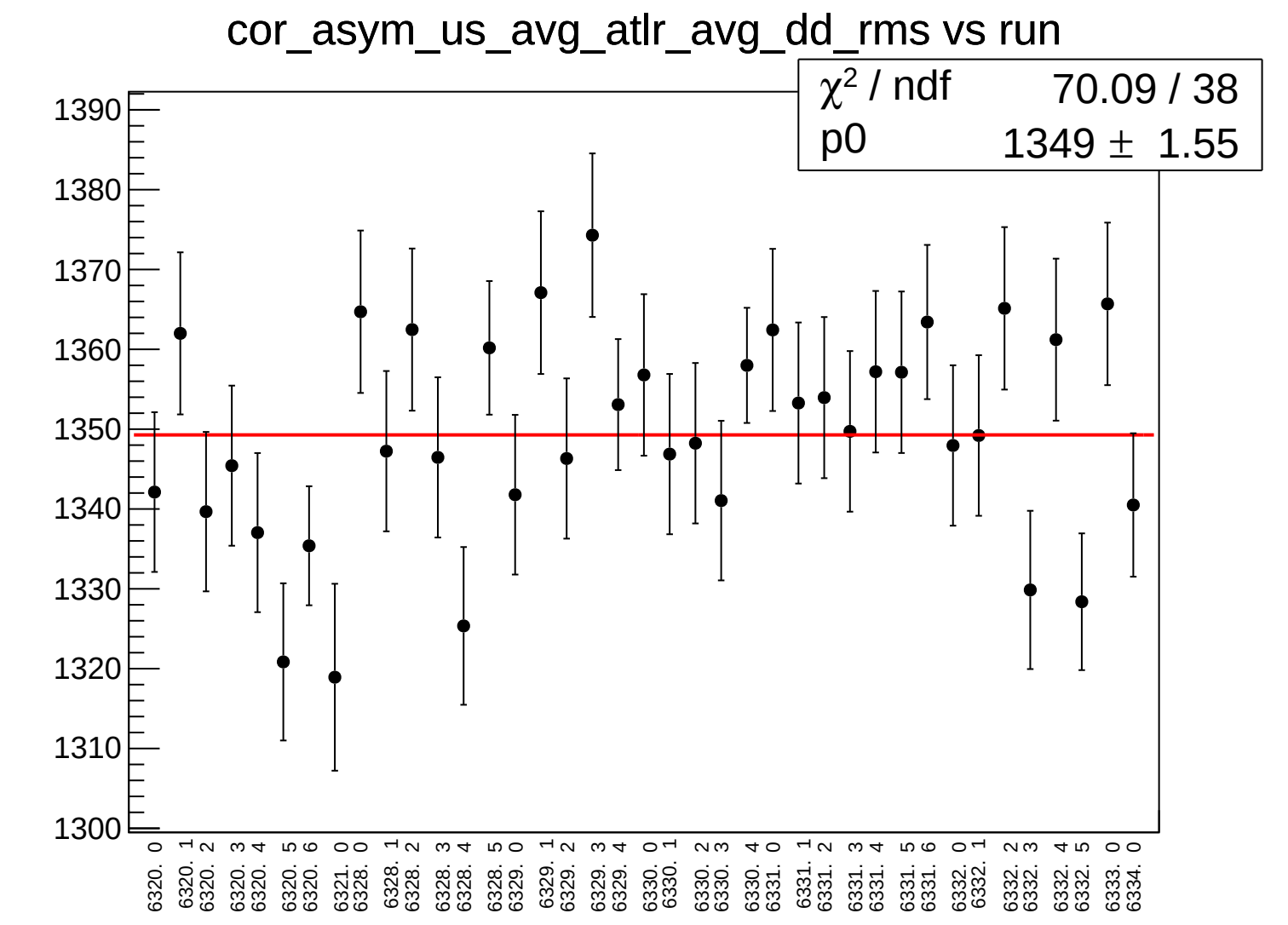

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 70.09 / 38
p0 1349 ± 1.55
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

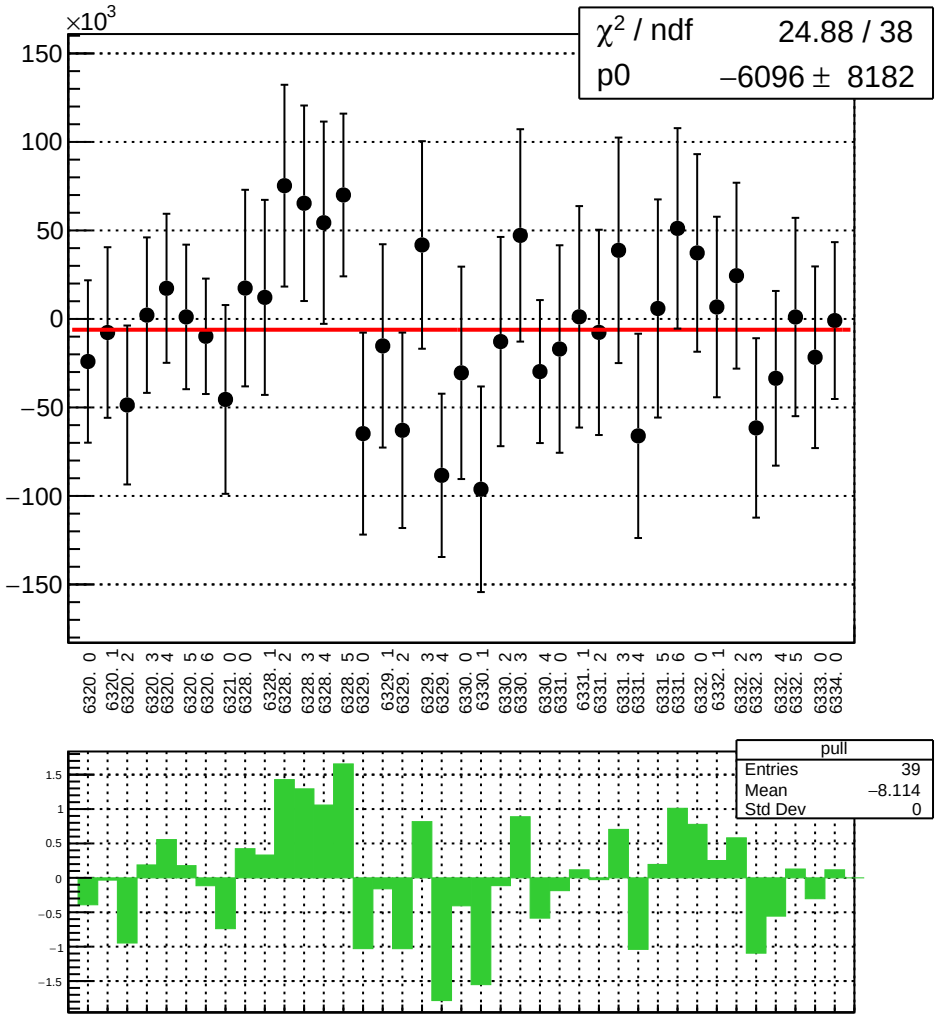

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 −6097 ± 8182
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.108
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

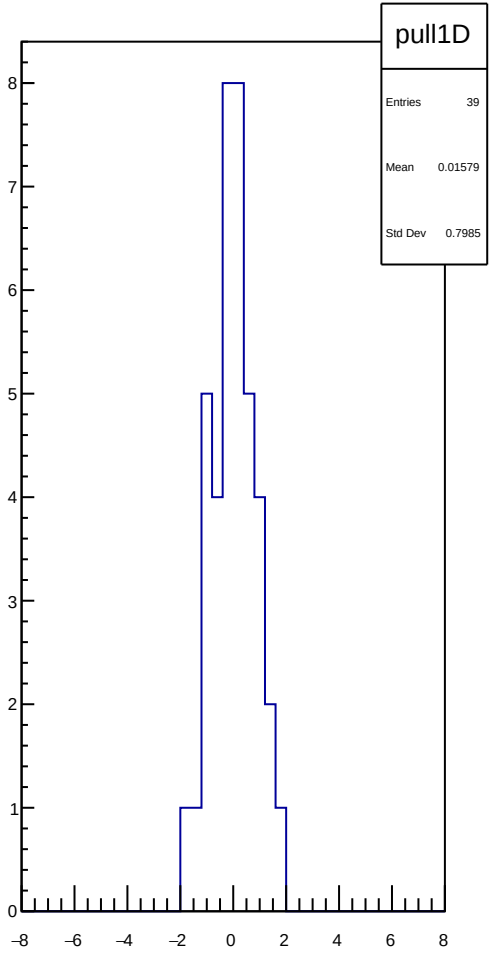

pull1D
Entries 39
Mean 0.01579
Std Dev 0.7985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

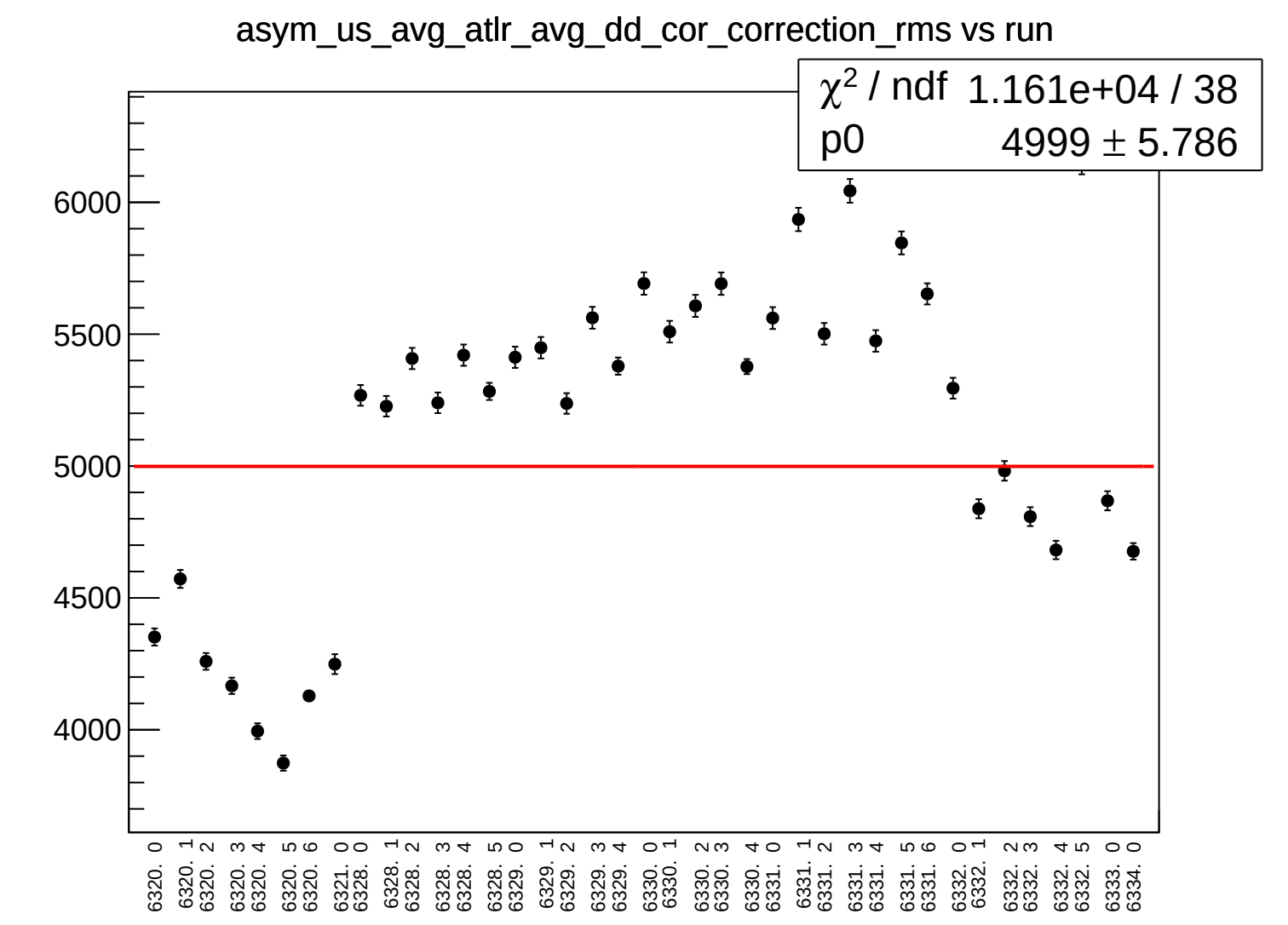

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.161e+04 / 38
p0 4999 ± 5.786
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

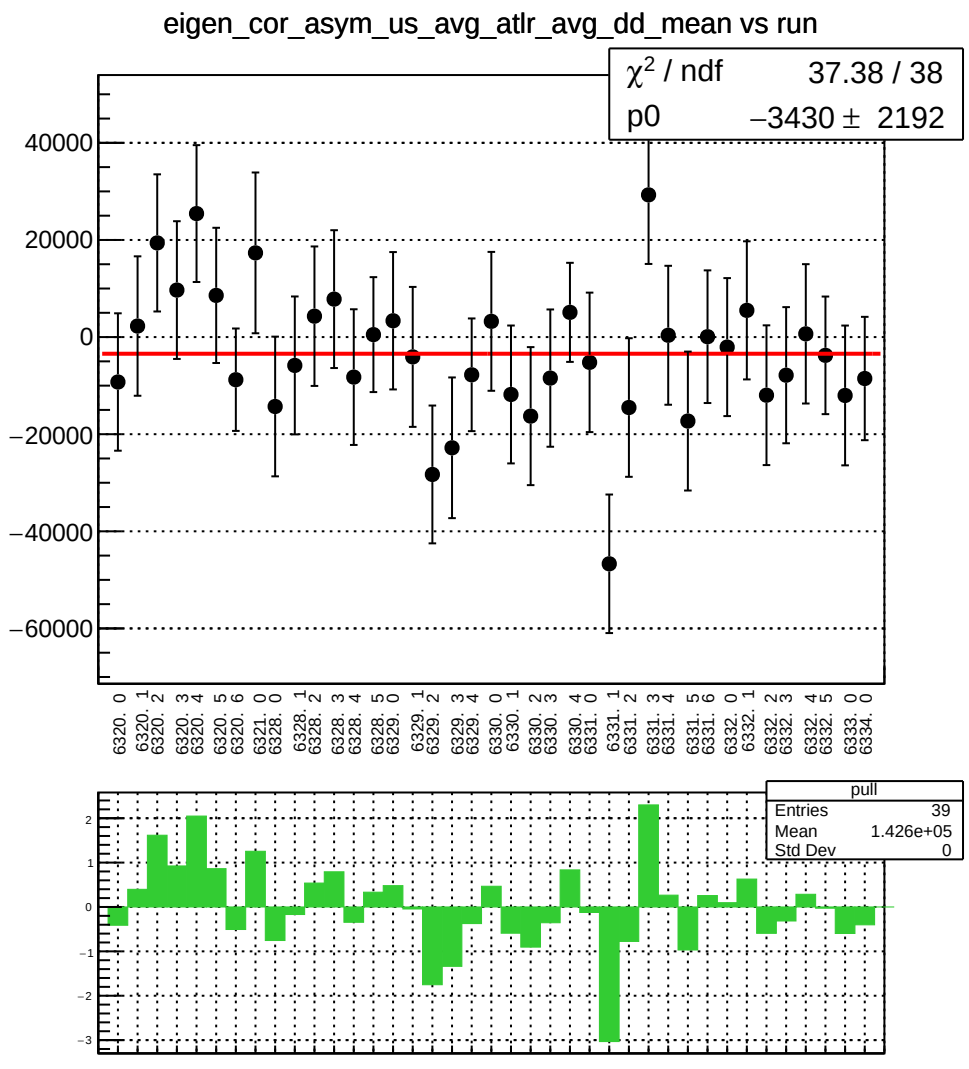

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 37.38 / 38
p0 −3430 ± 2192
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.426e+05
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −2.085e−05
Std Dev 0.979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

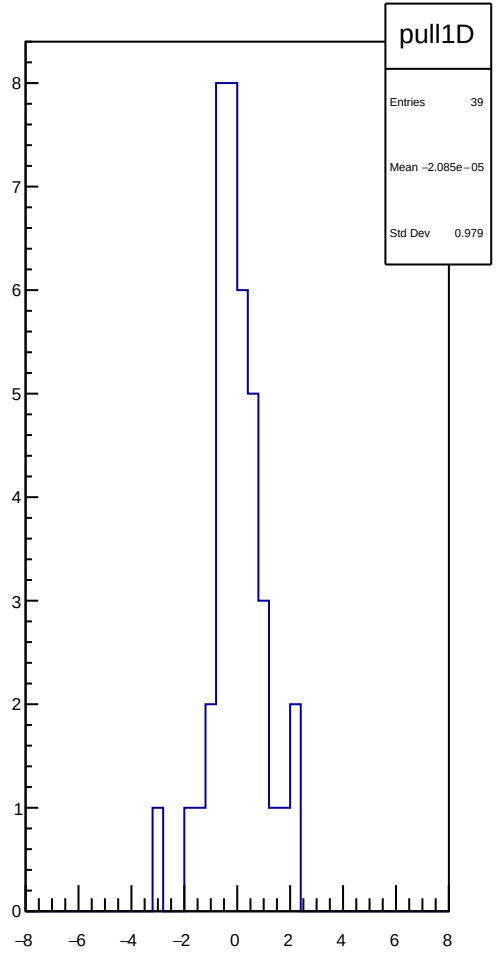

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 70.09 / 38
p0 1349 ± 1.55
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

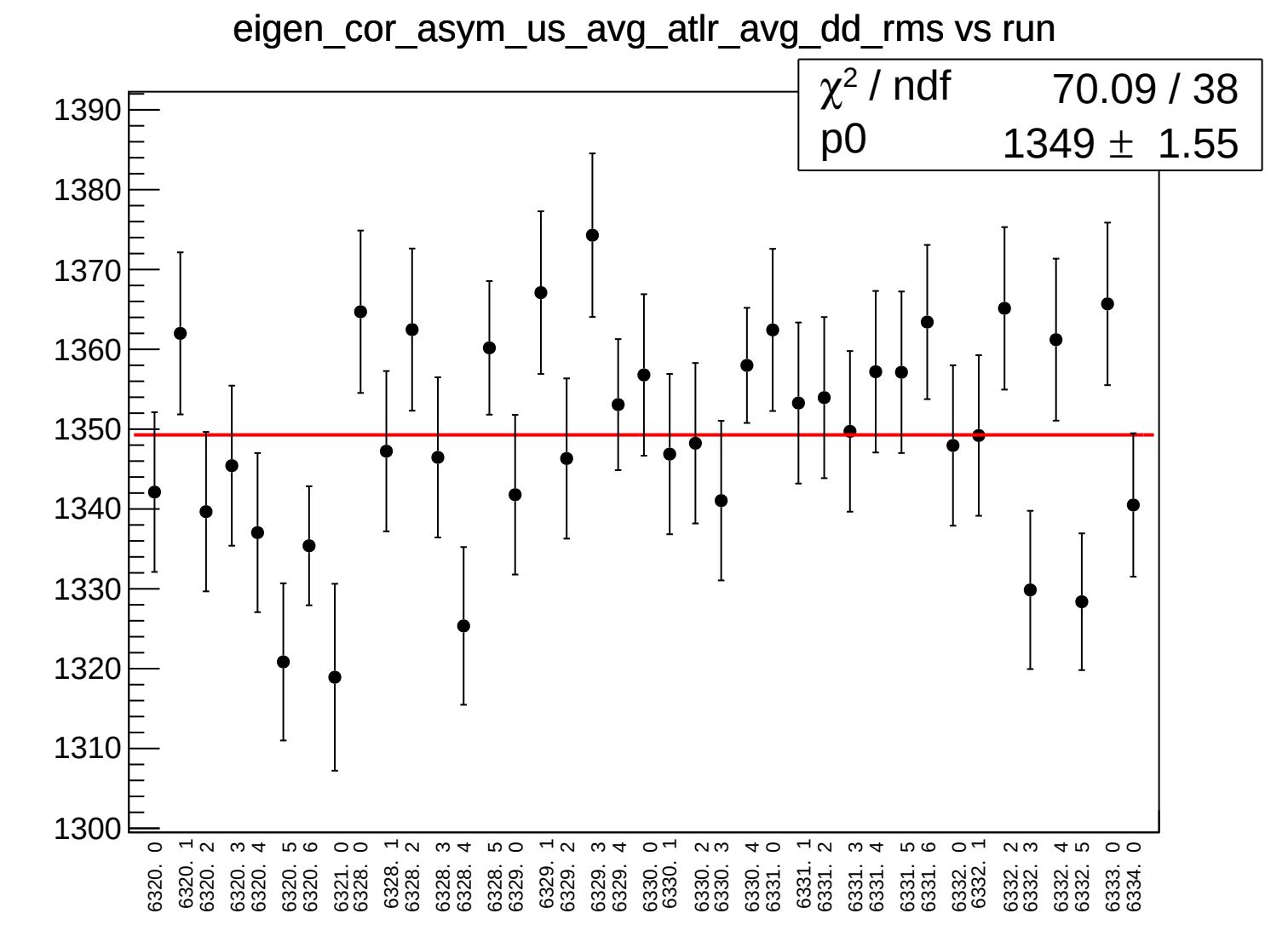

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 24.88 / 38
p0 −6096 ± 8182
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.114
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

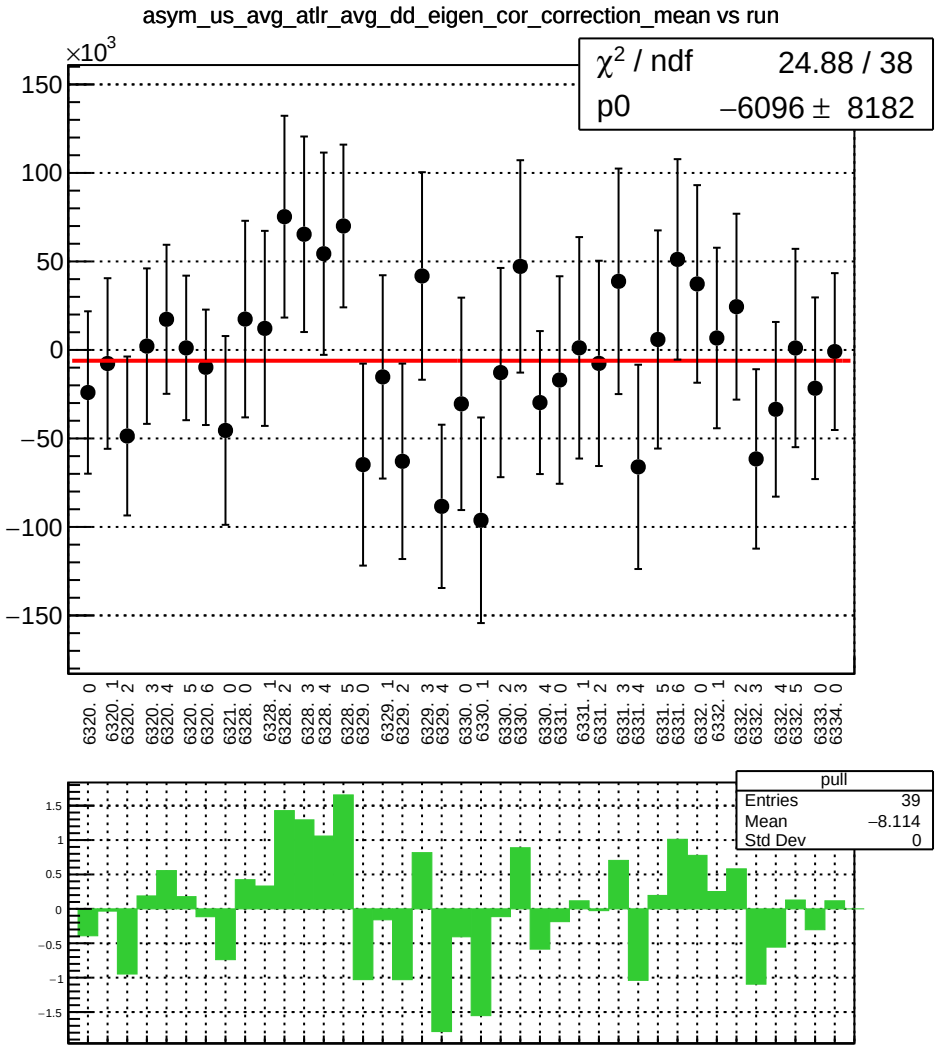

pull1D
Entries 39
Mean 0.01579
Std Dev 0.7985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

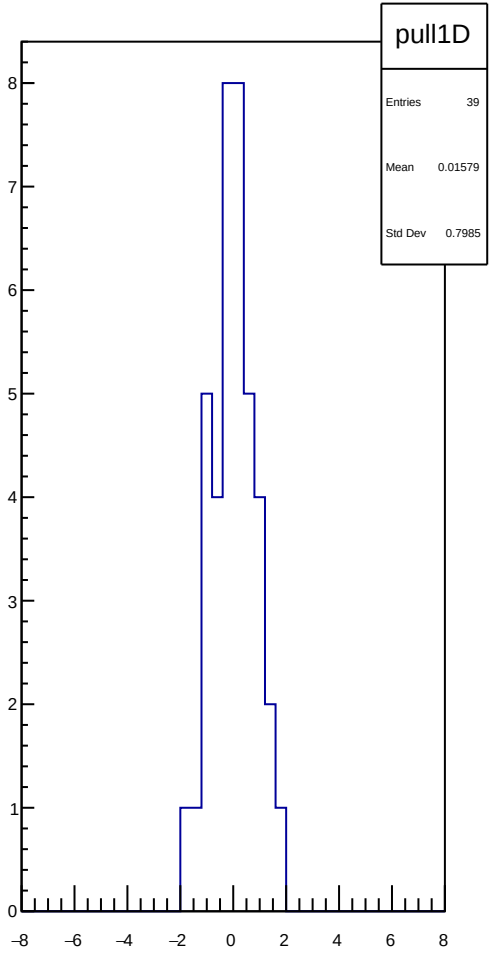

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.161e+04 / 38
p0 4999 ± 5.786
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

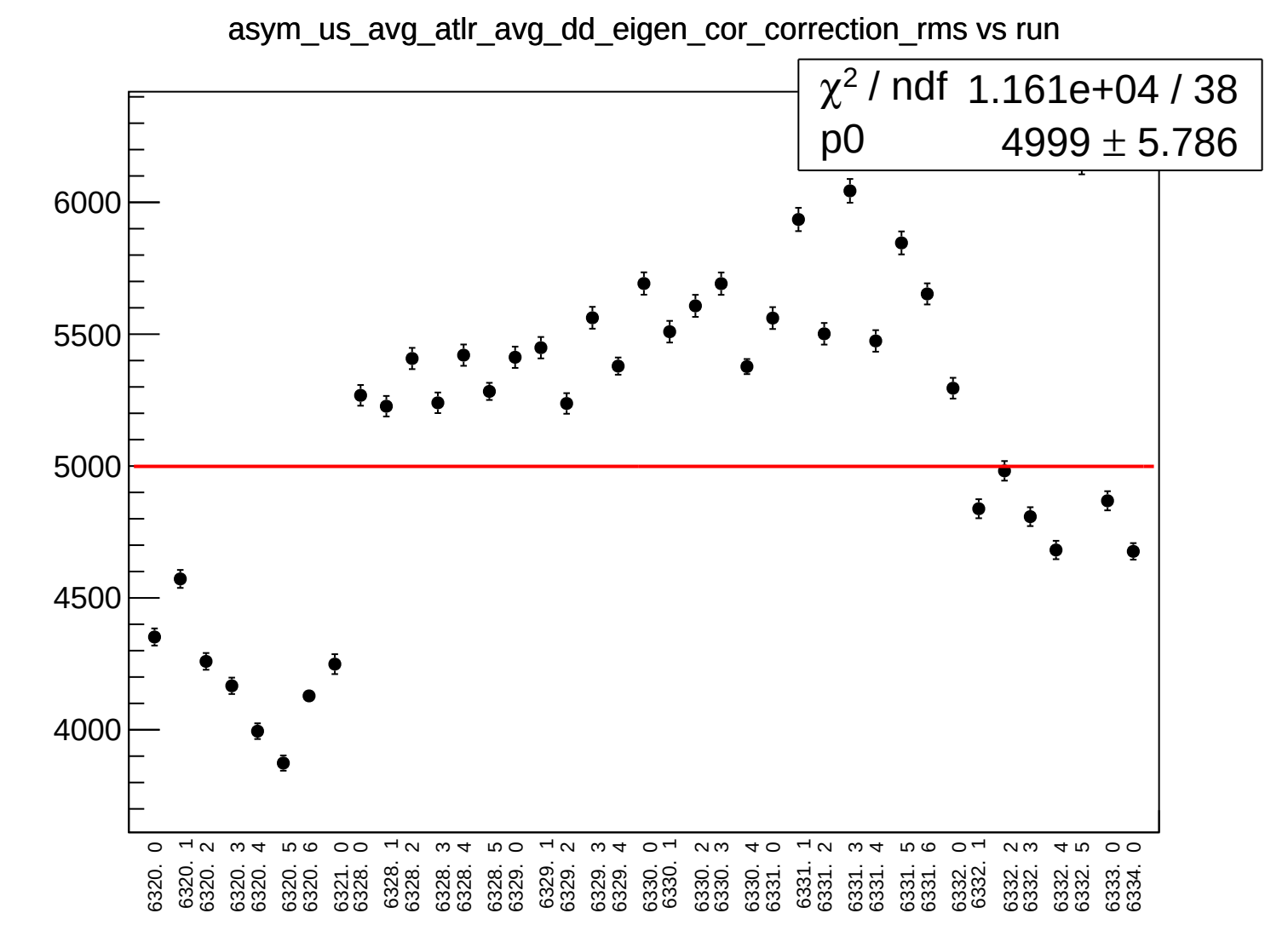

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 37.38 / 38
p0 −3430 ± 2192
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.426e+05
Std Dev 0
2
1
0
−1
−2
−3

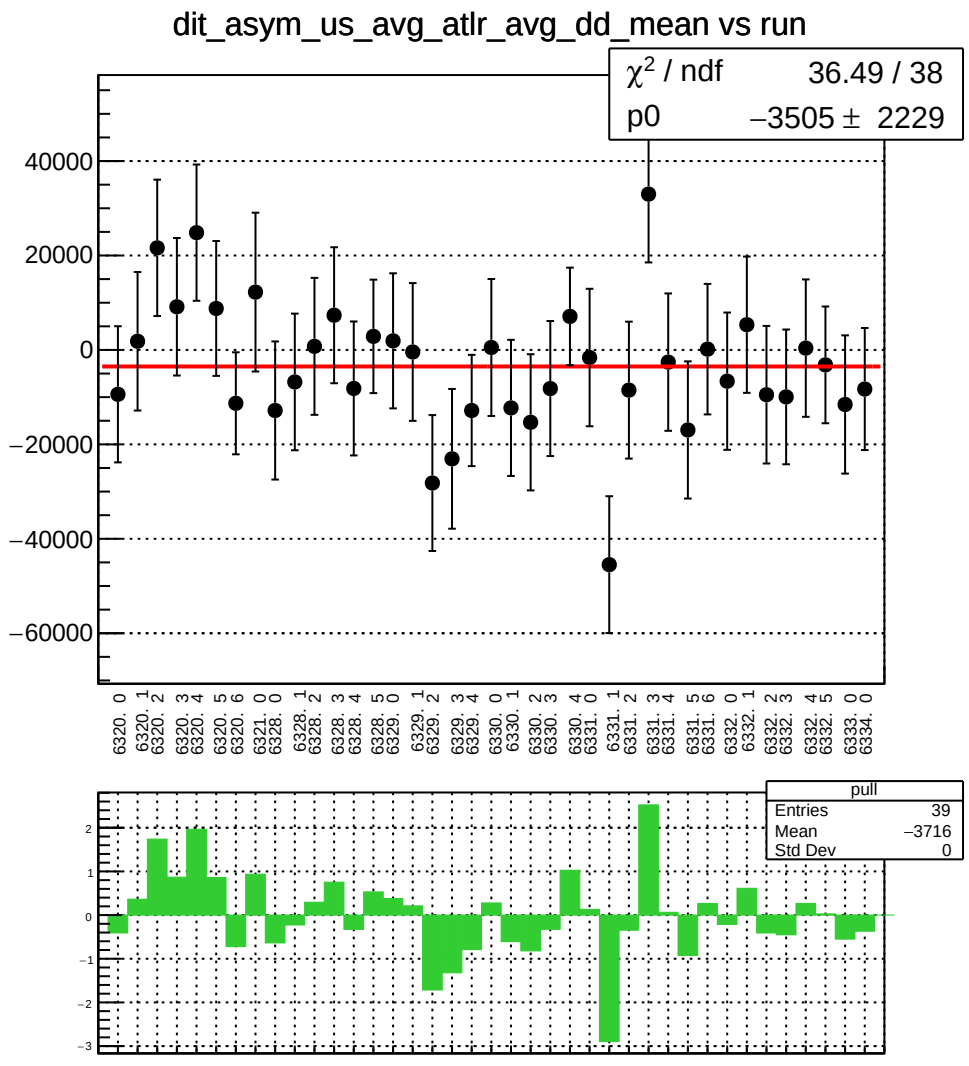

pull1D
Entries 39
Mean −2.085e−05
Std Dev 0.979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

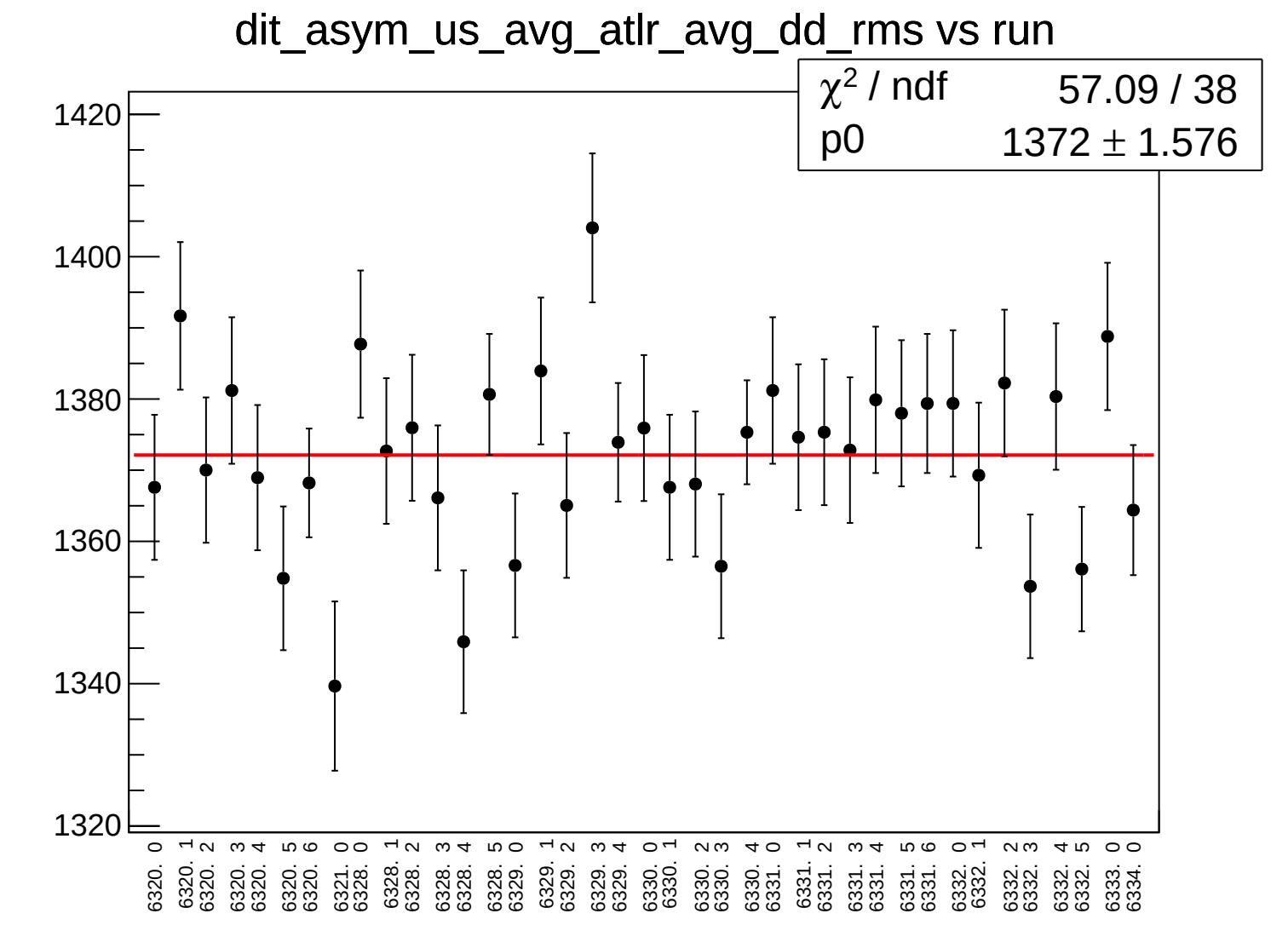

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 70.09 / 38
p0 1349 ± 1.55
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

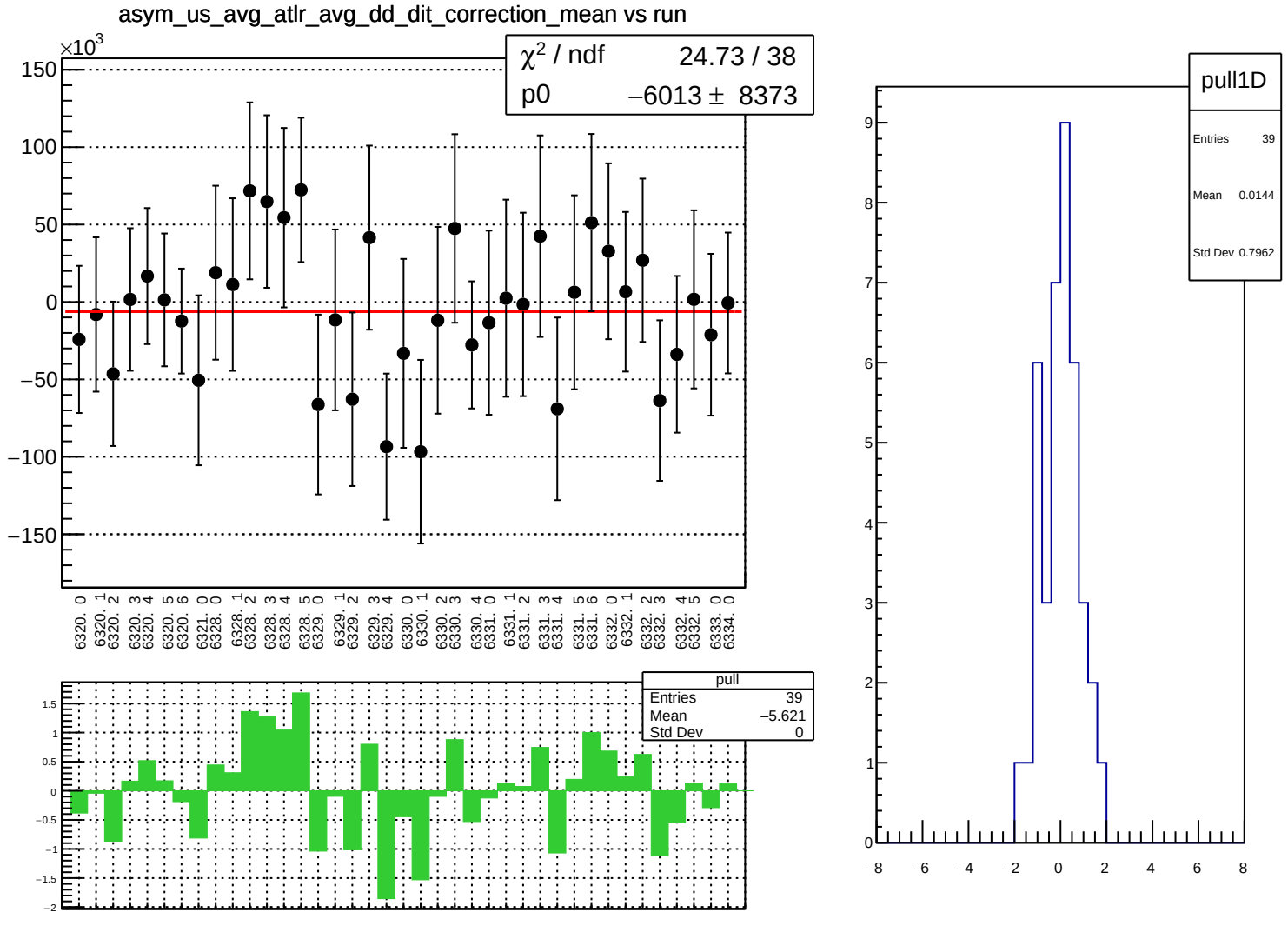

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 24.88 / 38
p0 −6096 ± 8182
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.114
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

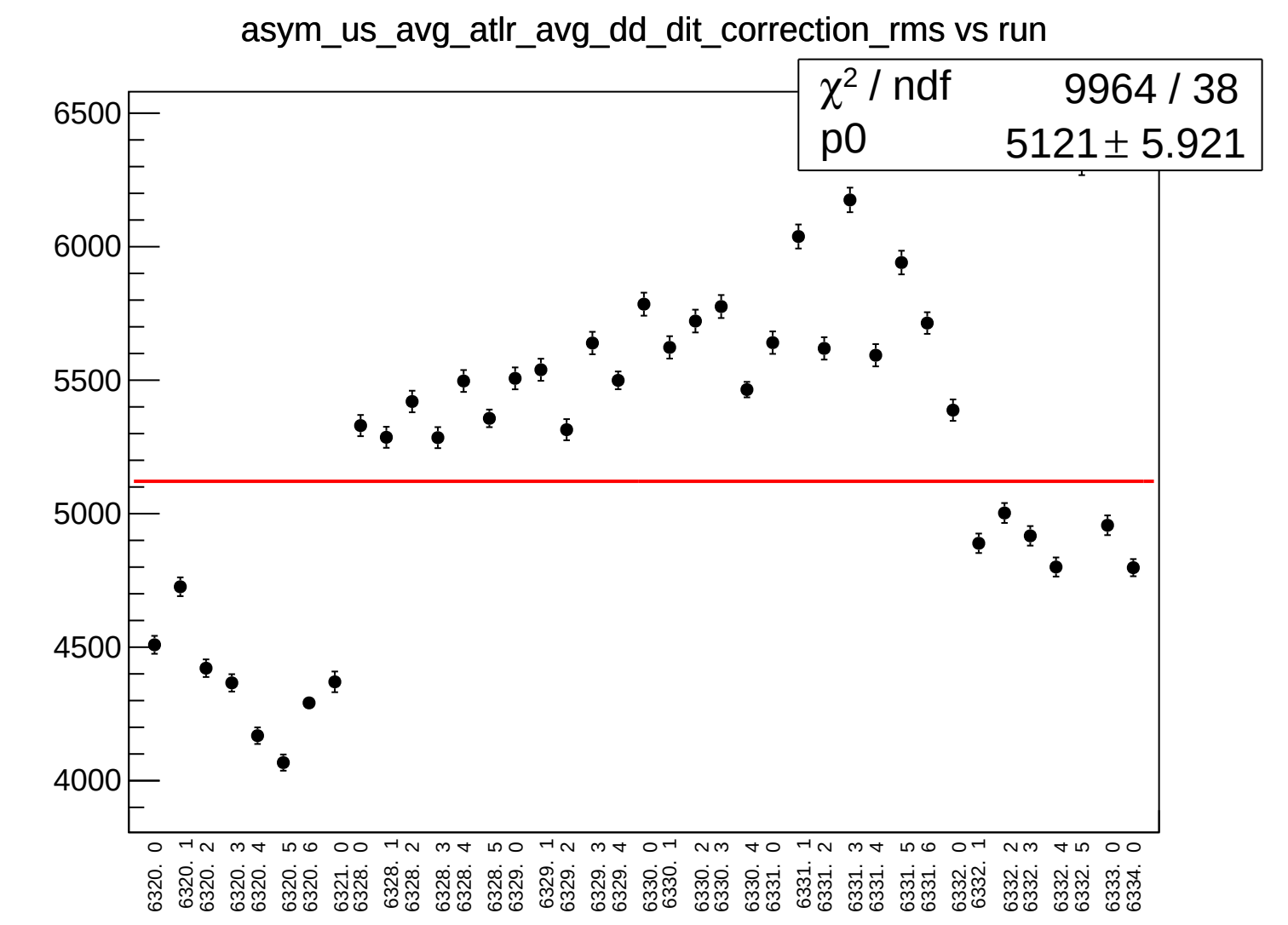

pull1D
Entries 39
Mean 0.01579
Std Dev 0.7985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

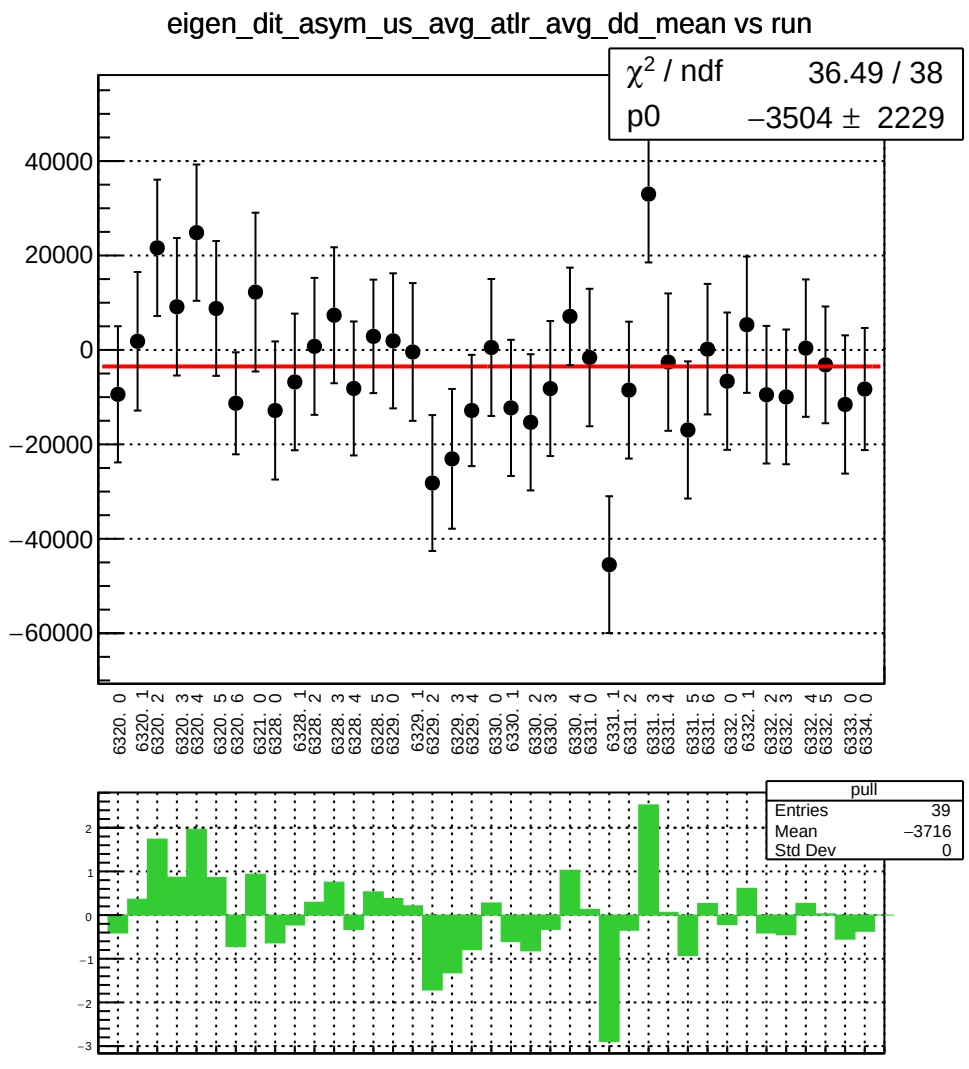

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.161e+04 / 38
p0 4999 ± 5.786
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

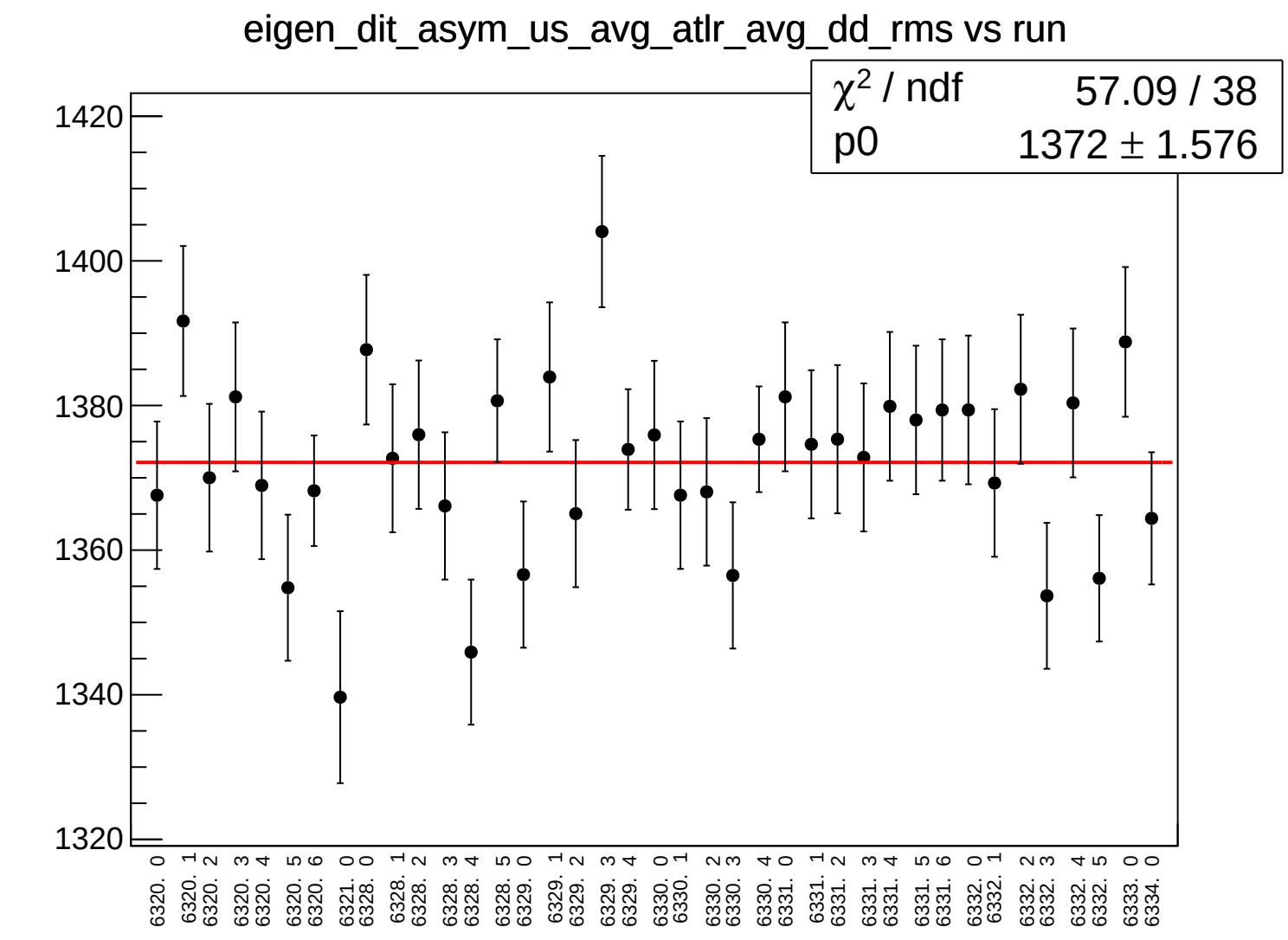

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 36.49 / 38
p0 −3505 ± 2229
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3716
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.0007085
Std Dev 0.9672
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

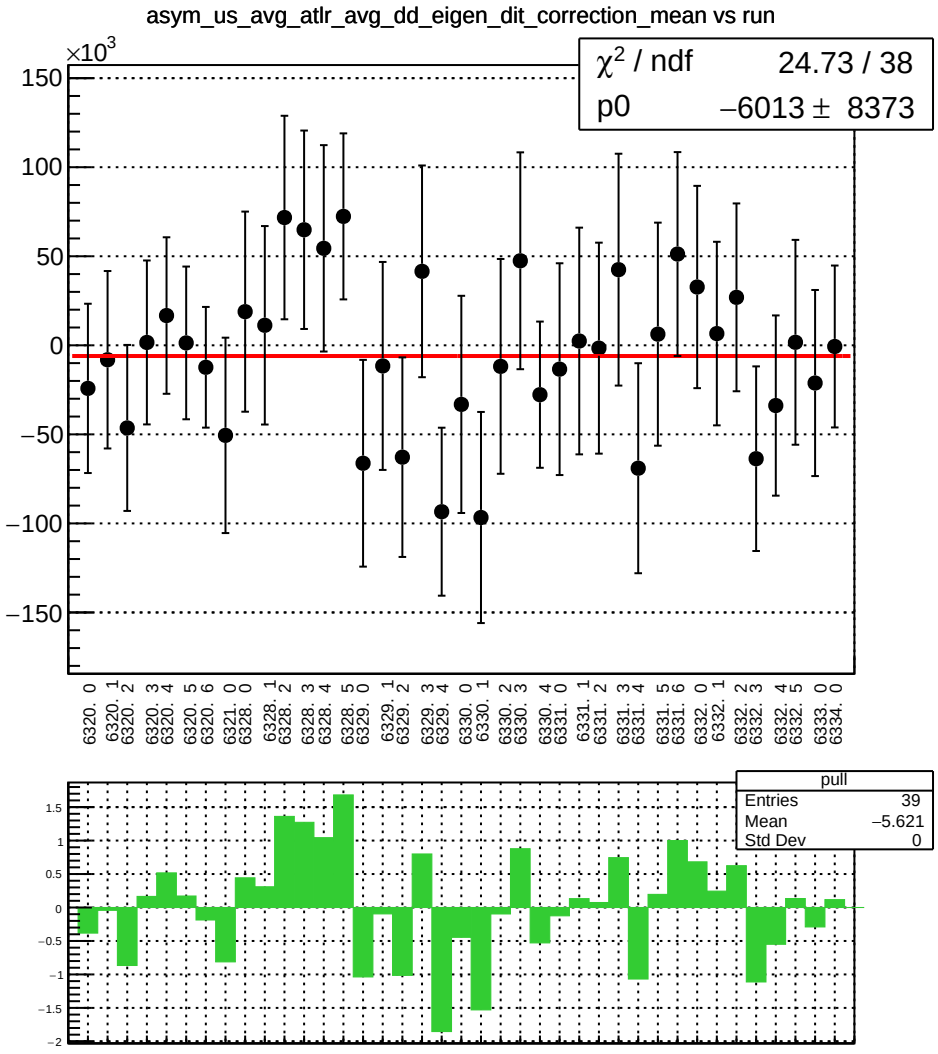

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 57.09 / 38
p0 1372 ± 1.576
1420
1400
1380
1360
1340
1320
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

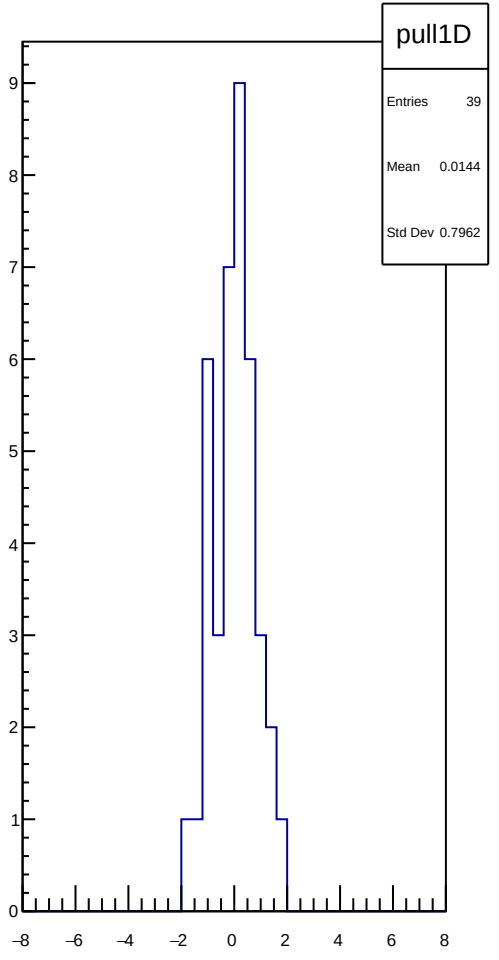

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 24.73 / 38
p0 −6013 ± 8373
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.621
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0144
Std Dev 0.7962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

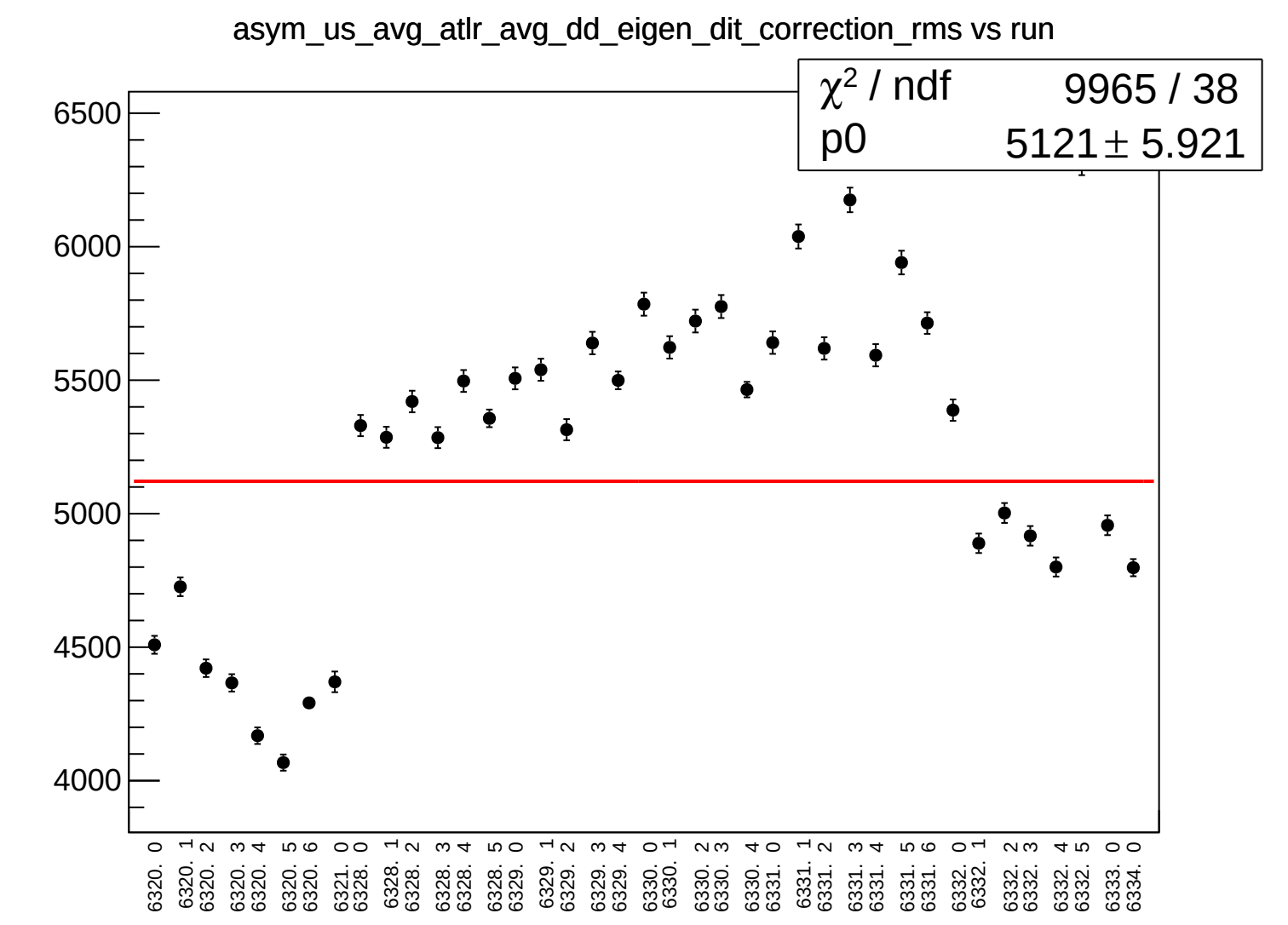

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 9964 / 38
p0 5121 ± 5.921
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

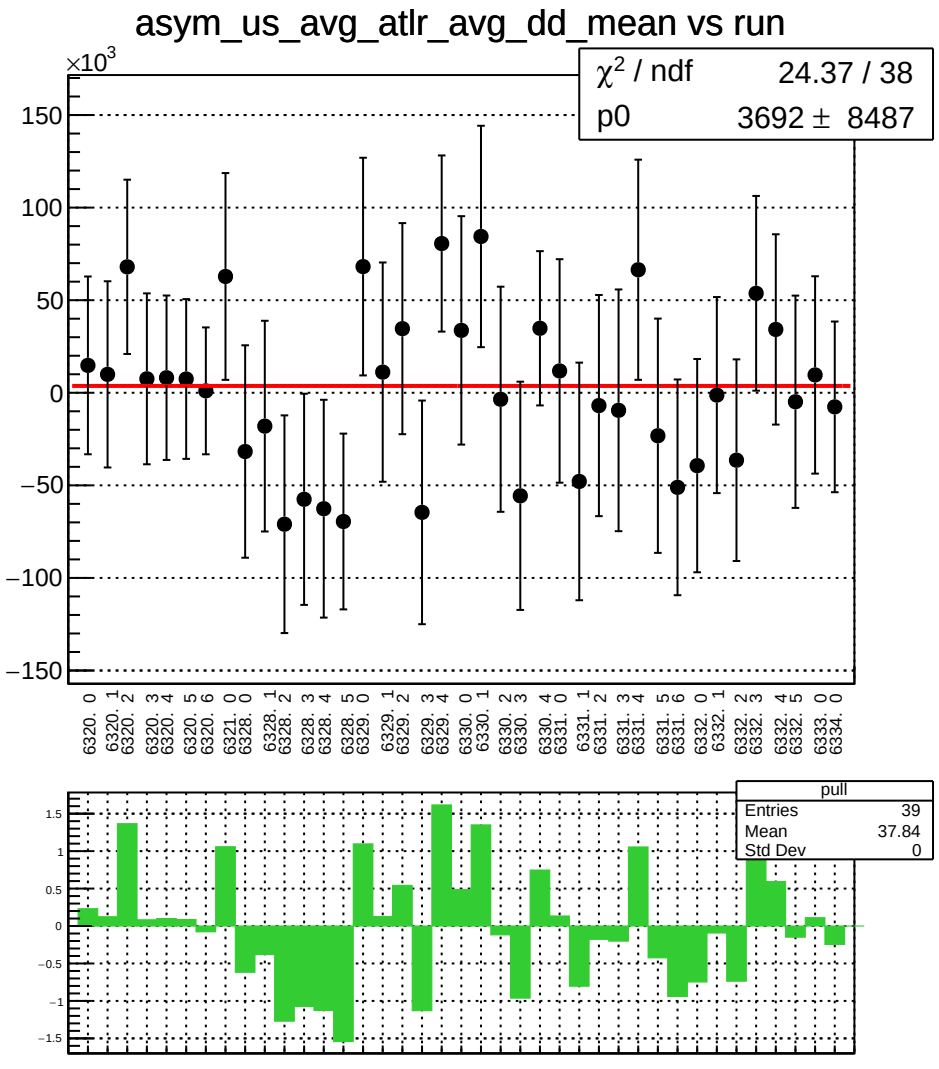

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 36.49 / 38
p0 −3504 ± 2229
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3716
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.0007084
Std Dev 0.9672
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

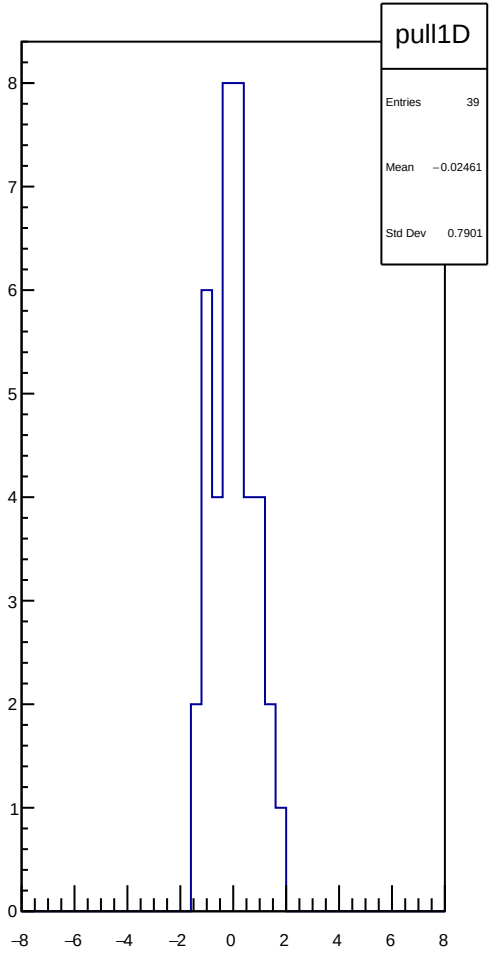

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 57.09 / 38
p0 1372 ± 1.576
1420
1400
1380
1360
1340
1320
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

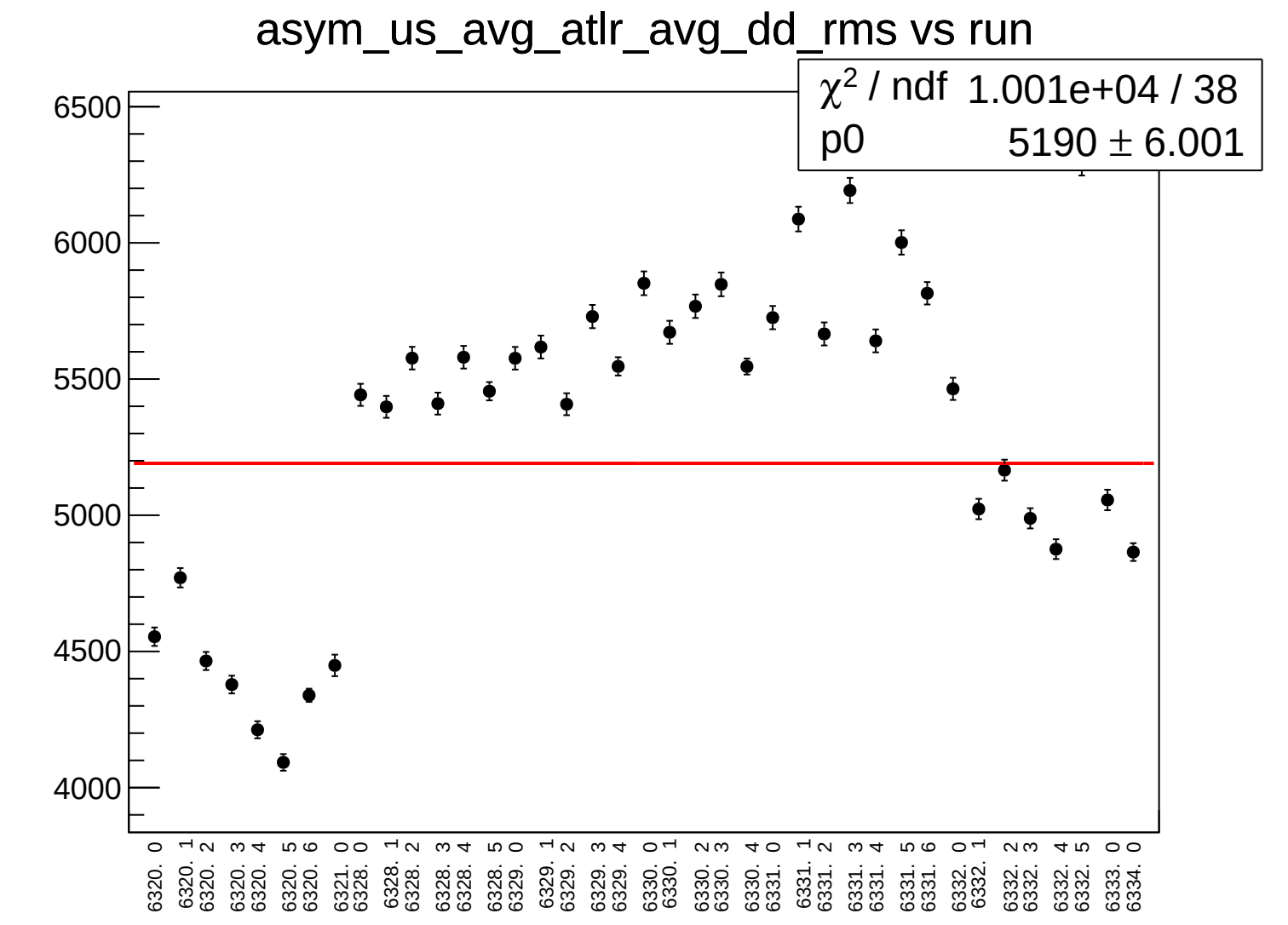

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.73 / 38
p0 −6013 ± 8373
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.621
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

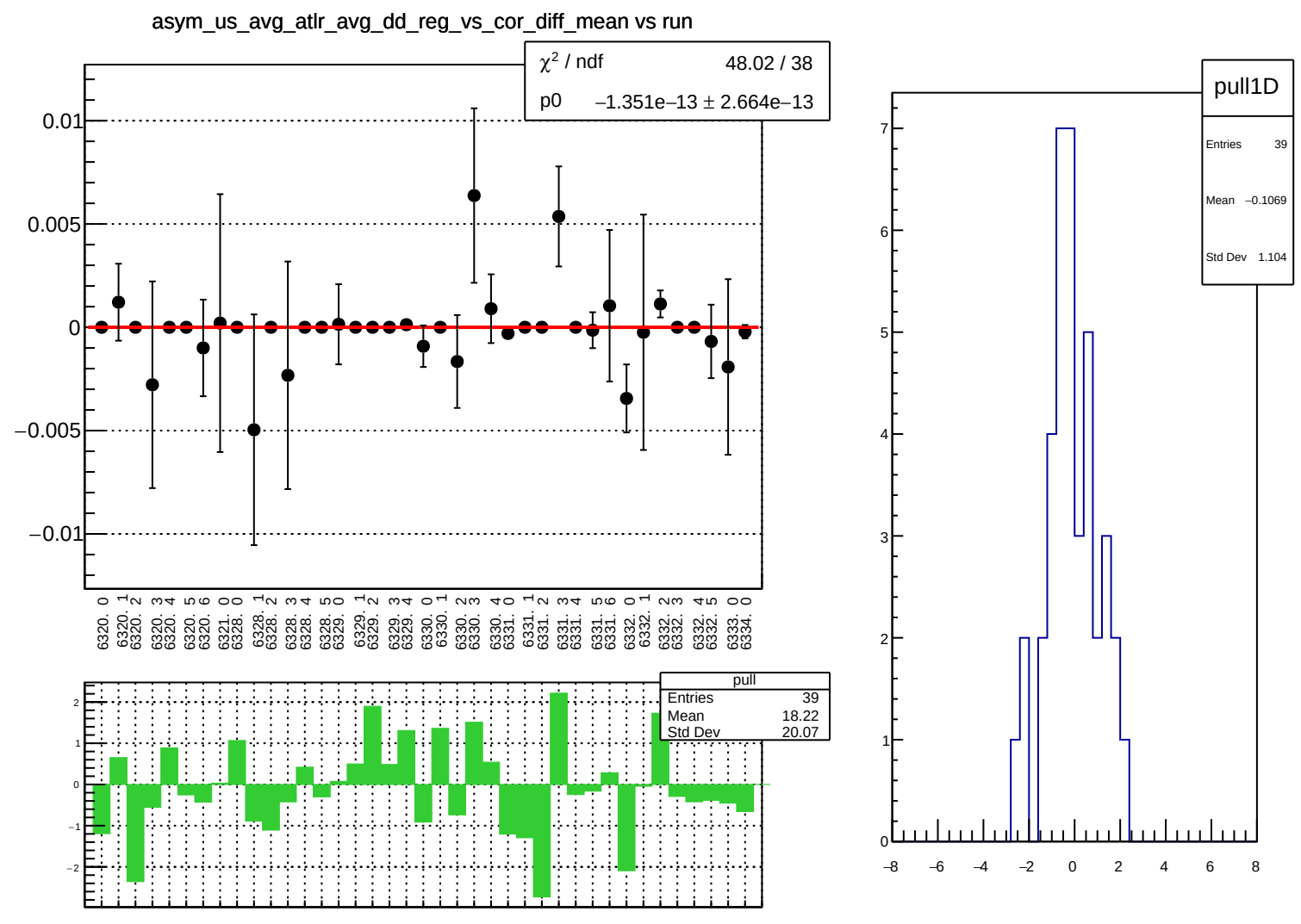

pull1D
Entries 39
Mean 0.0144
Std Dev 0.7962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

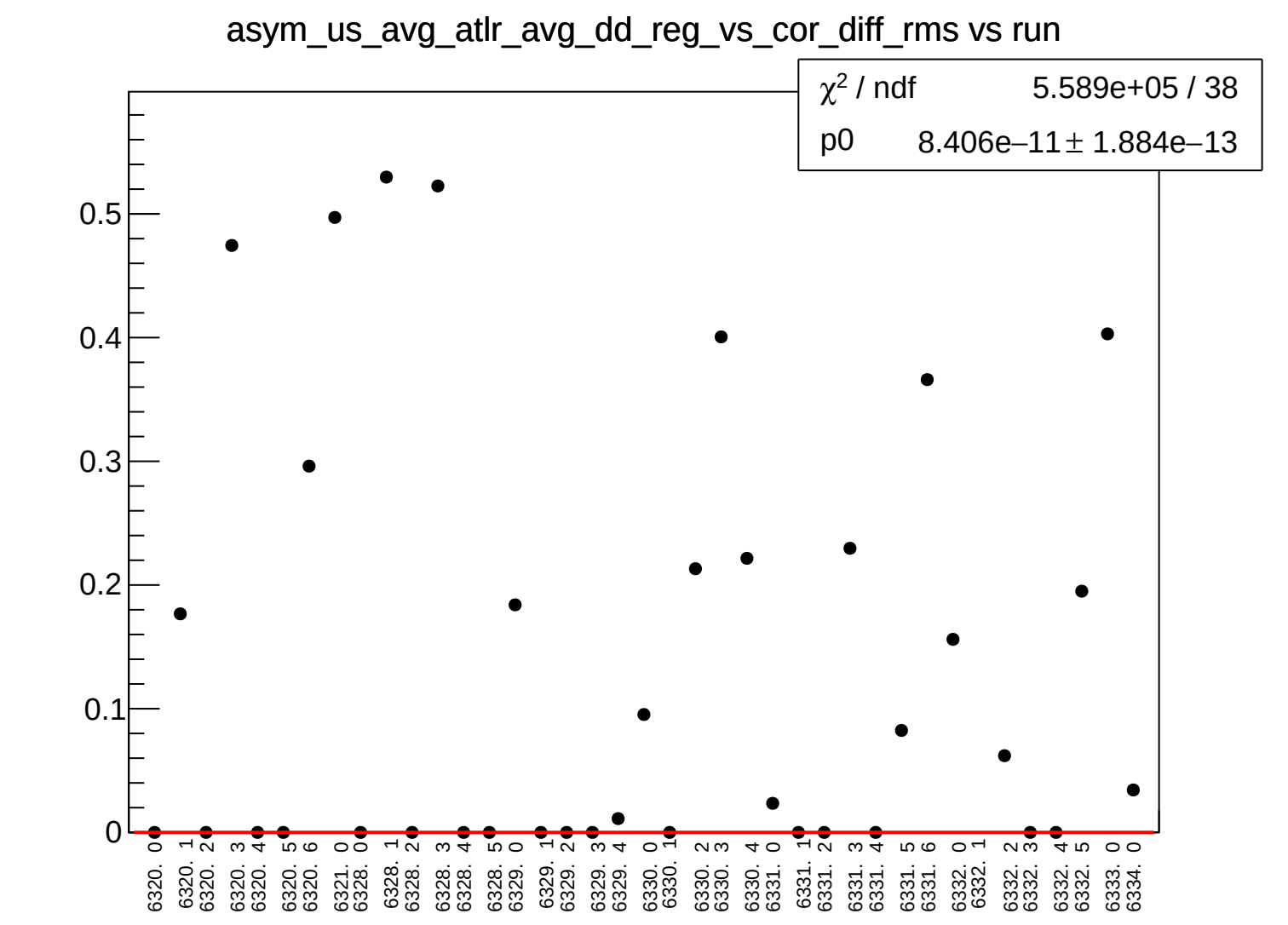

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9965 / 38
p0 5121 ± 5.921
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

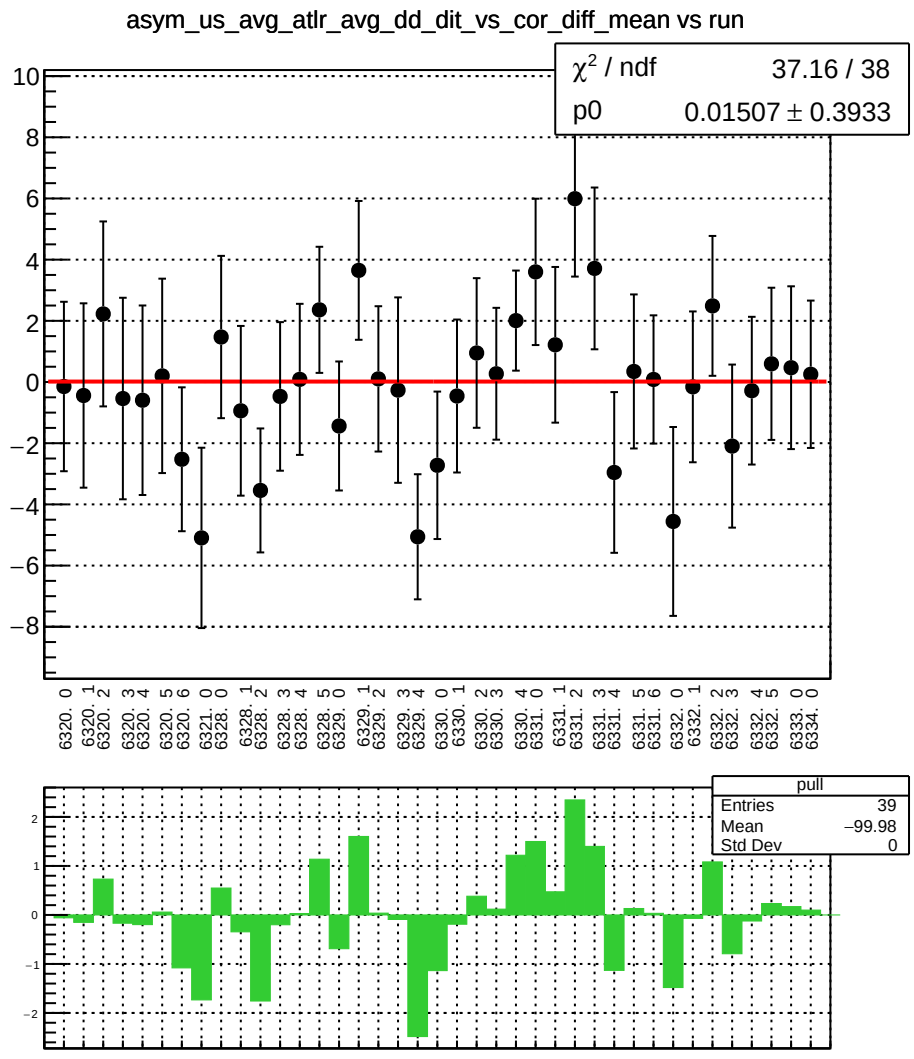

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 24.37 / 38
p0 3692 ± 8487
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

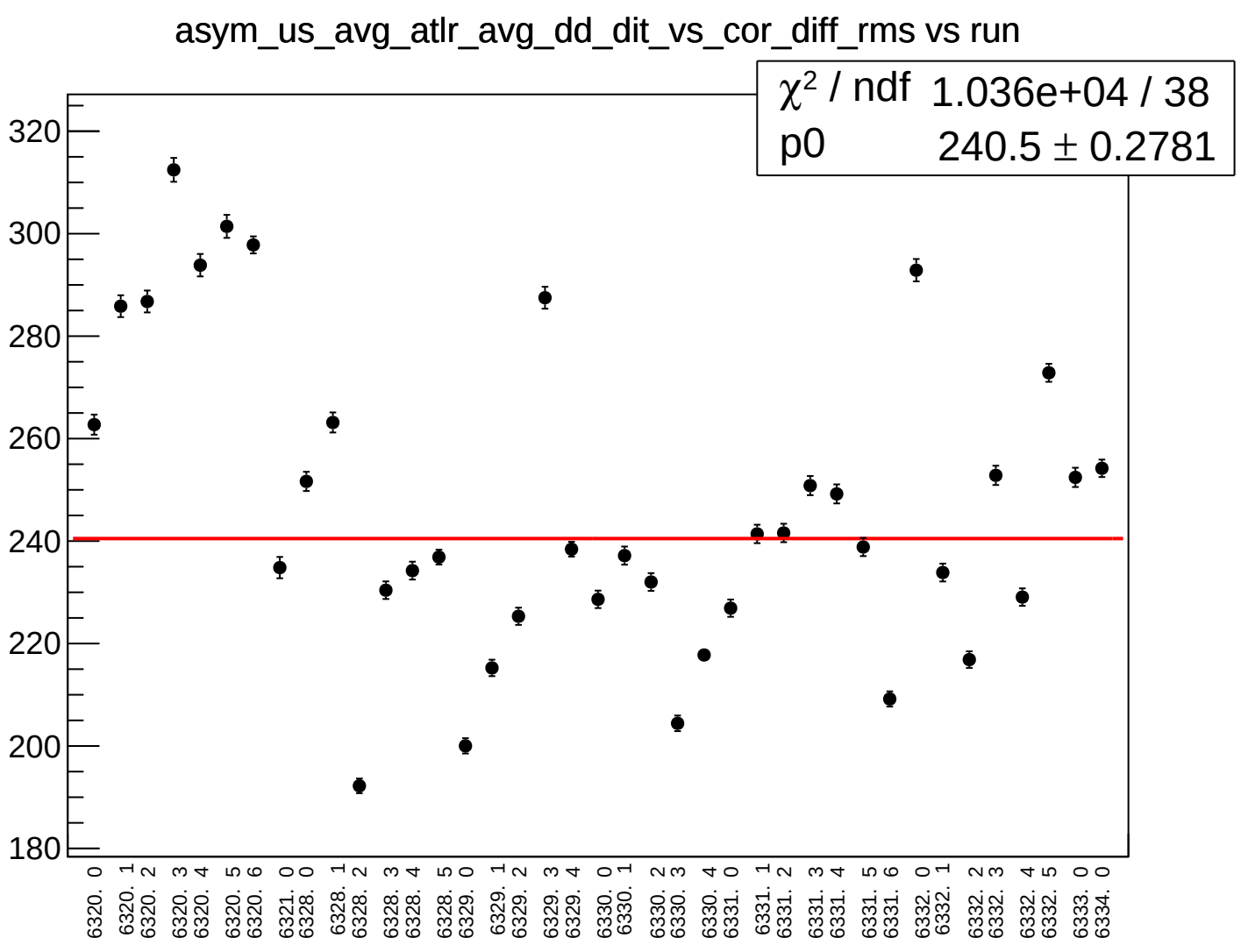

pull1D
Entries 39
Mean −0.02461
Std Dev 0.7901
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

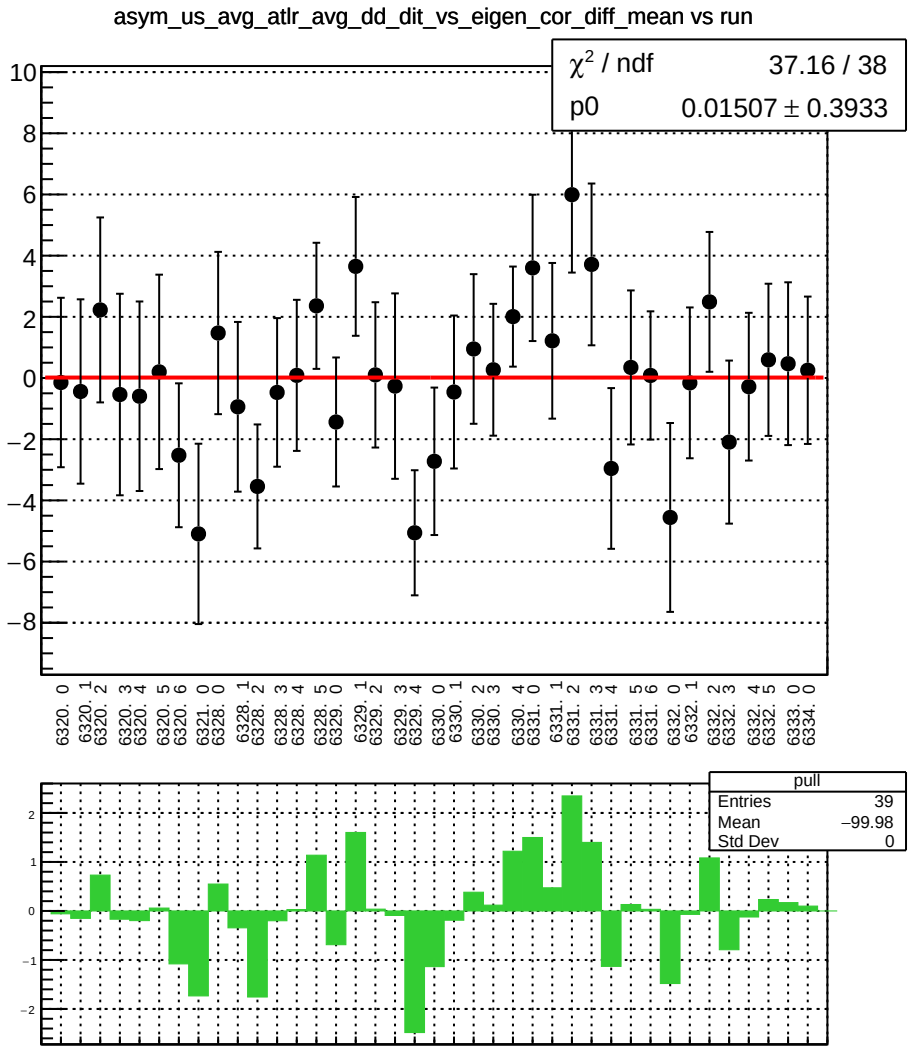

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.001e+04 / 38
p0 5190 ± 6.001
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

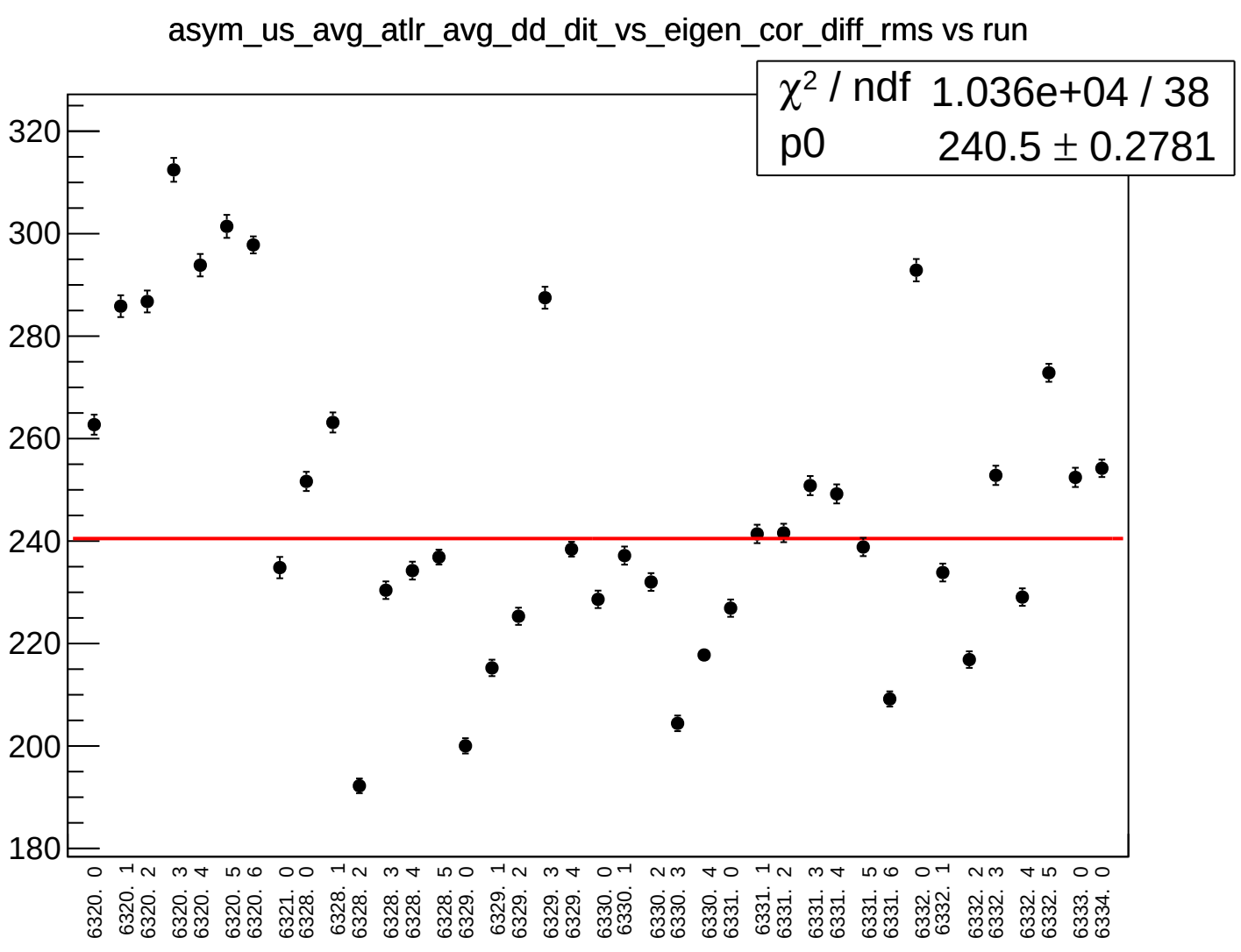

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 48.02 / 38
p0 −1.351e−13 ± 2.664e−13
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 18.22
Std Dev 20.07
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1069
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

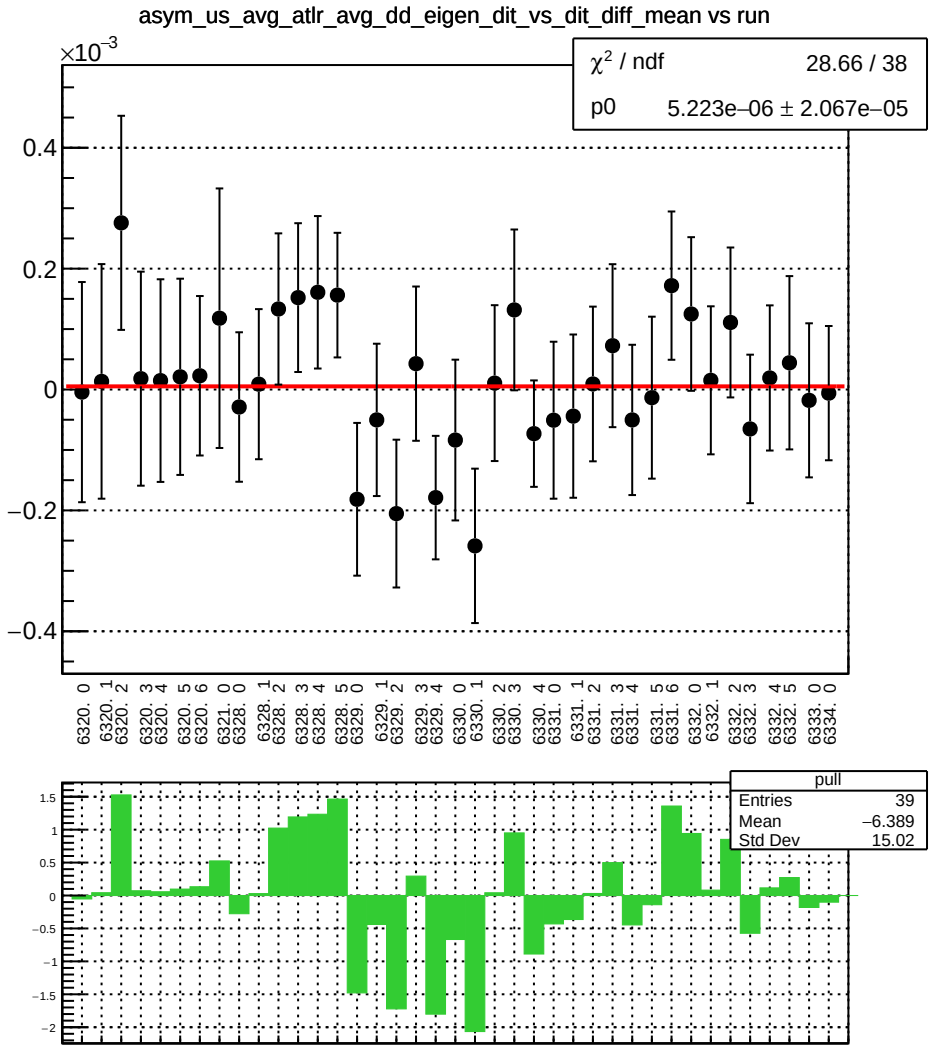

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.589e+05 / 38
p0 8.406e−11 ± 1.884e−13
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

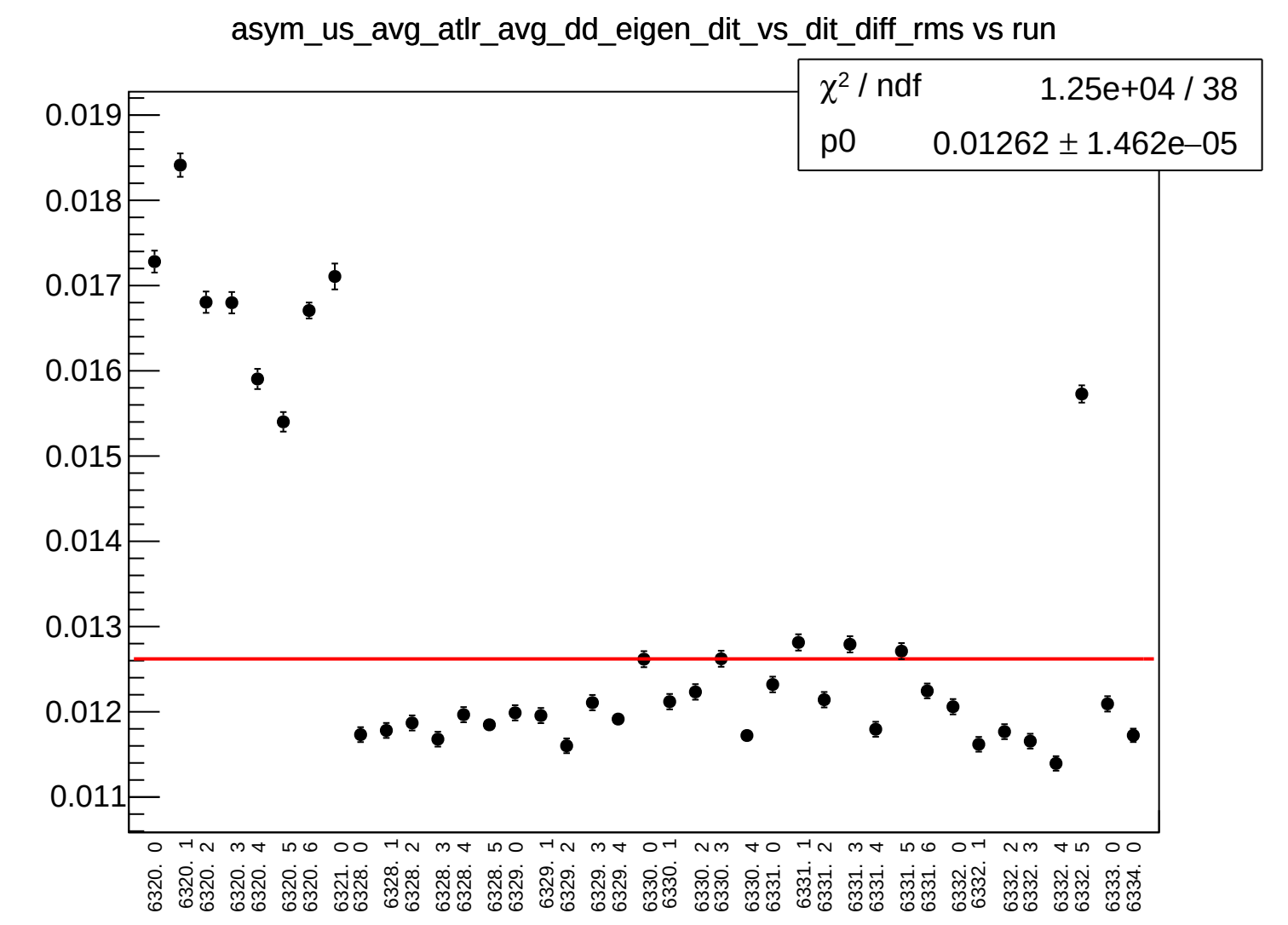

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.16 / 38
p0 0.01507 ± 0.3933
pull
Entries 39
Mean −99.98
Std Dev 0
pull1D
Entries 39
Mean −0.014
Std Dev 0.9761

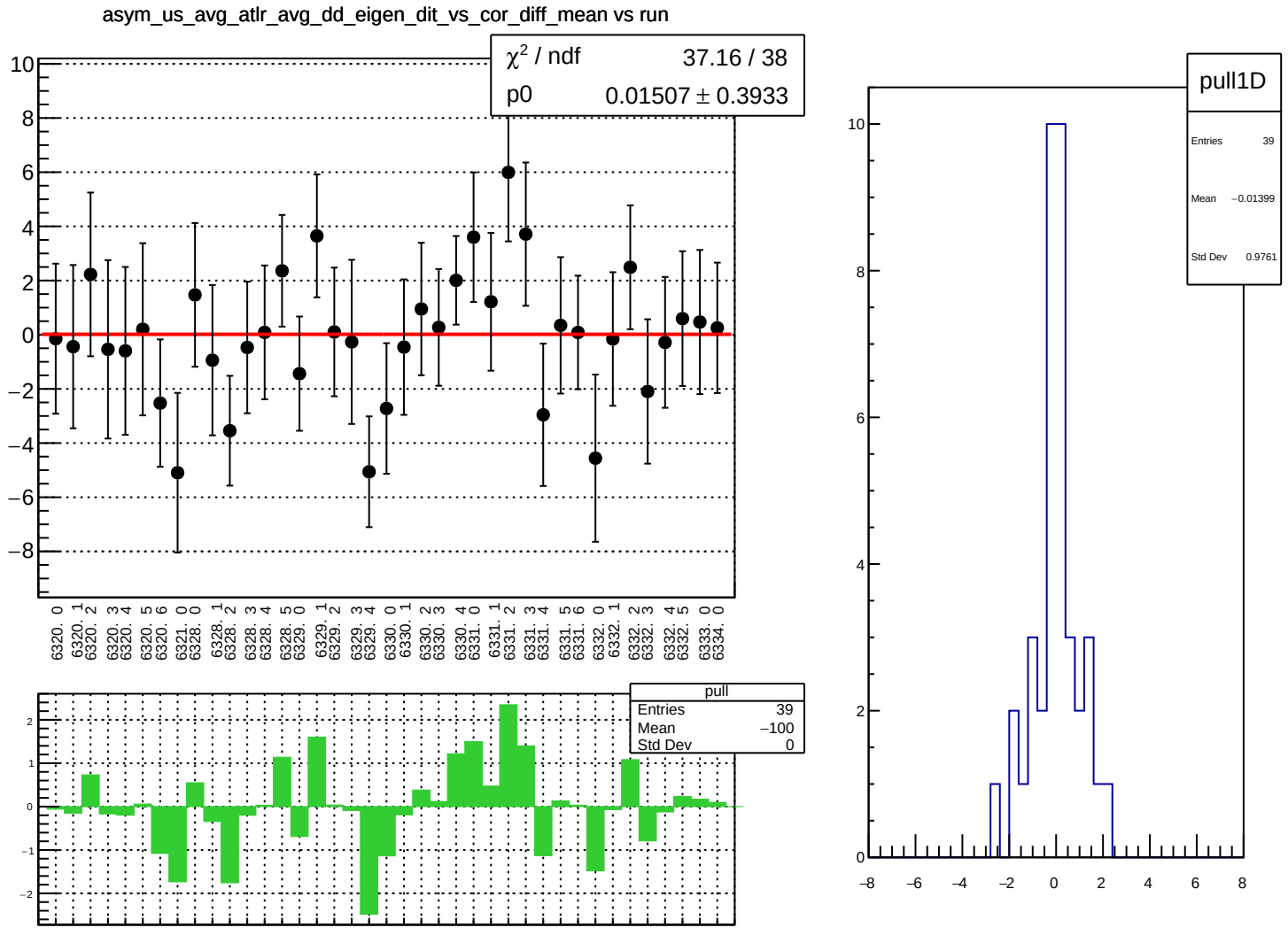

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.036e+04 / 38
p0 240.5 ± 0.2781
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

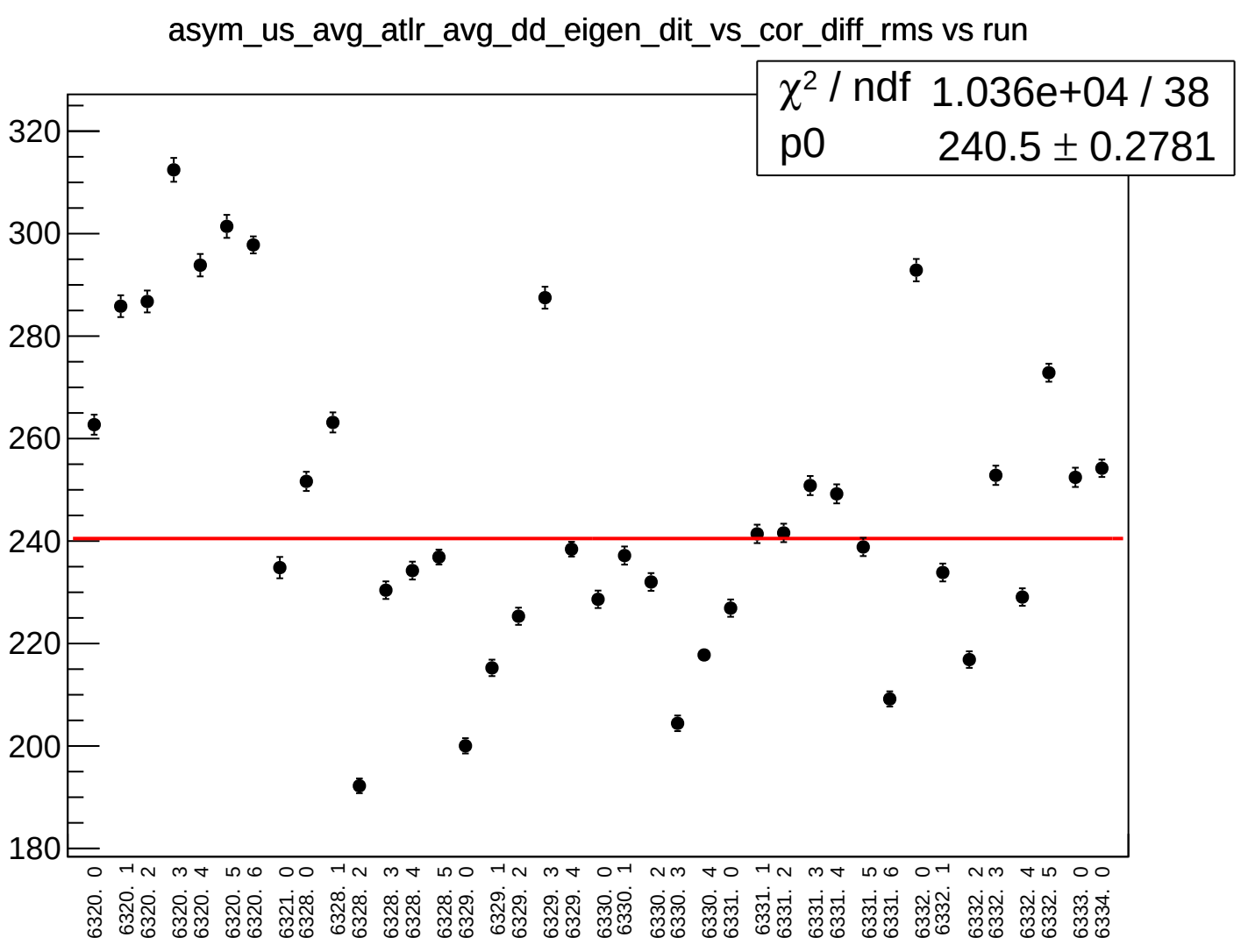

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.16 / 38
p0 0.01507 ± 0.3933
pull
Entries 39
Mean −99.98
Std Dev 0
pull1D
Entries 39
Mean −0.014
Std Dev 0.9761

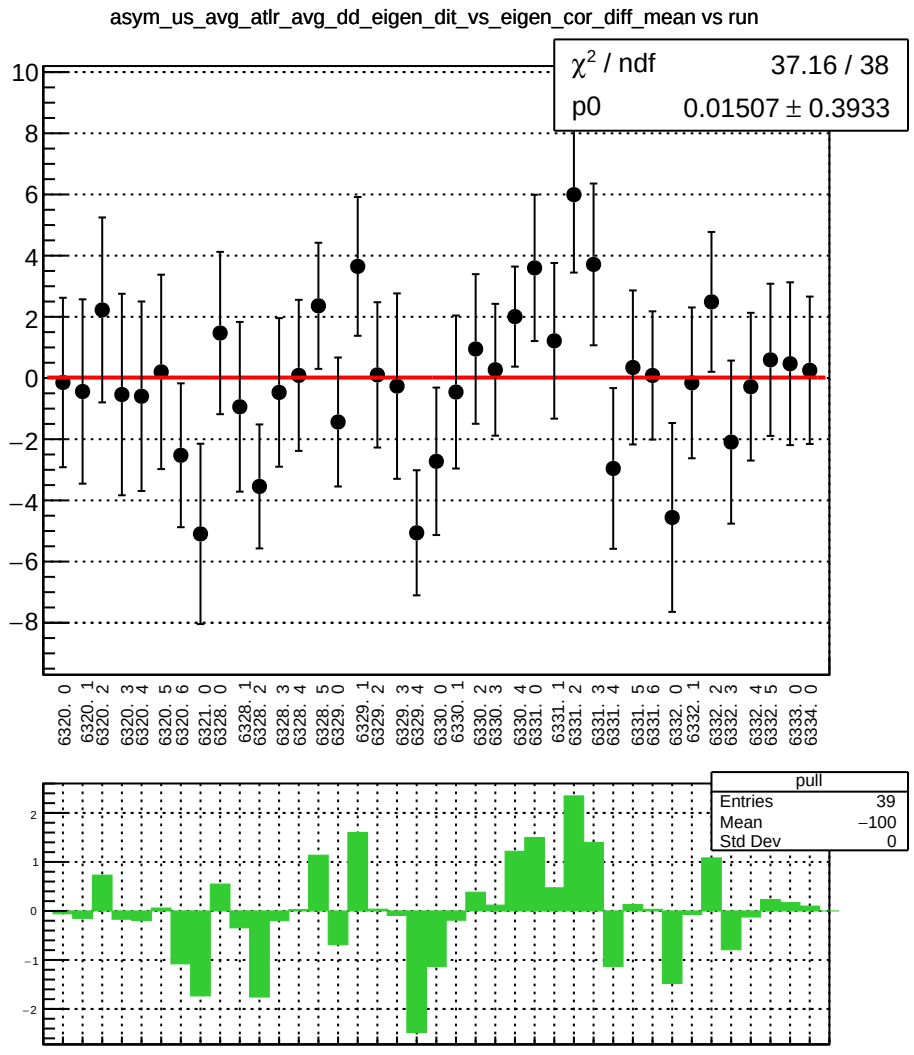

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.036e+04 / 38
p0 240.5 ± 0.2781
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

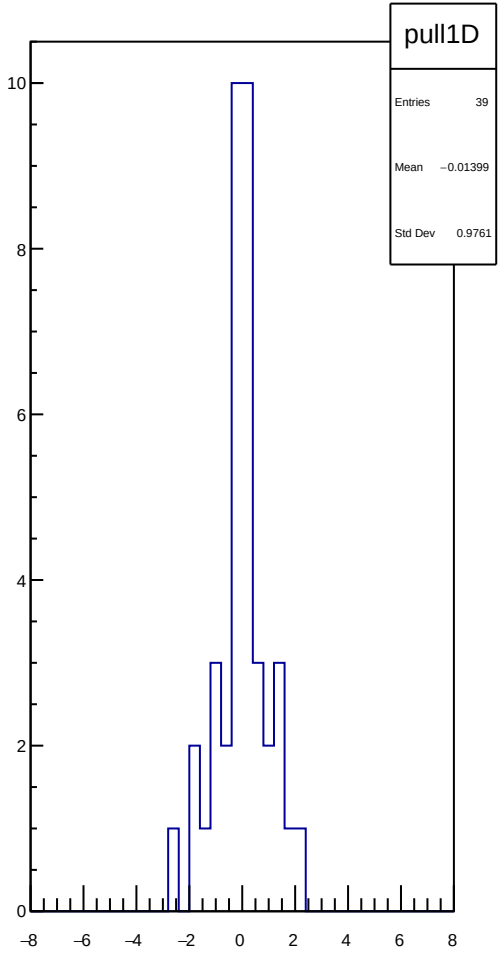

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.66 / 38
p0 5.223e−06 ± 2.067e−05
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.389
Std Dev 15.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03102
Std Dev 0.8567
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

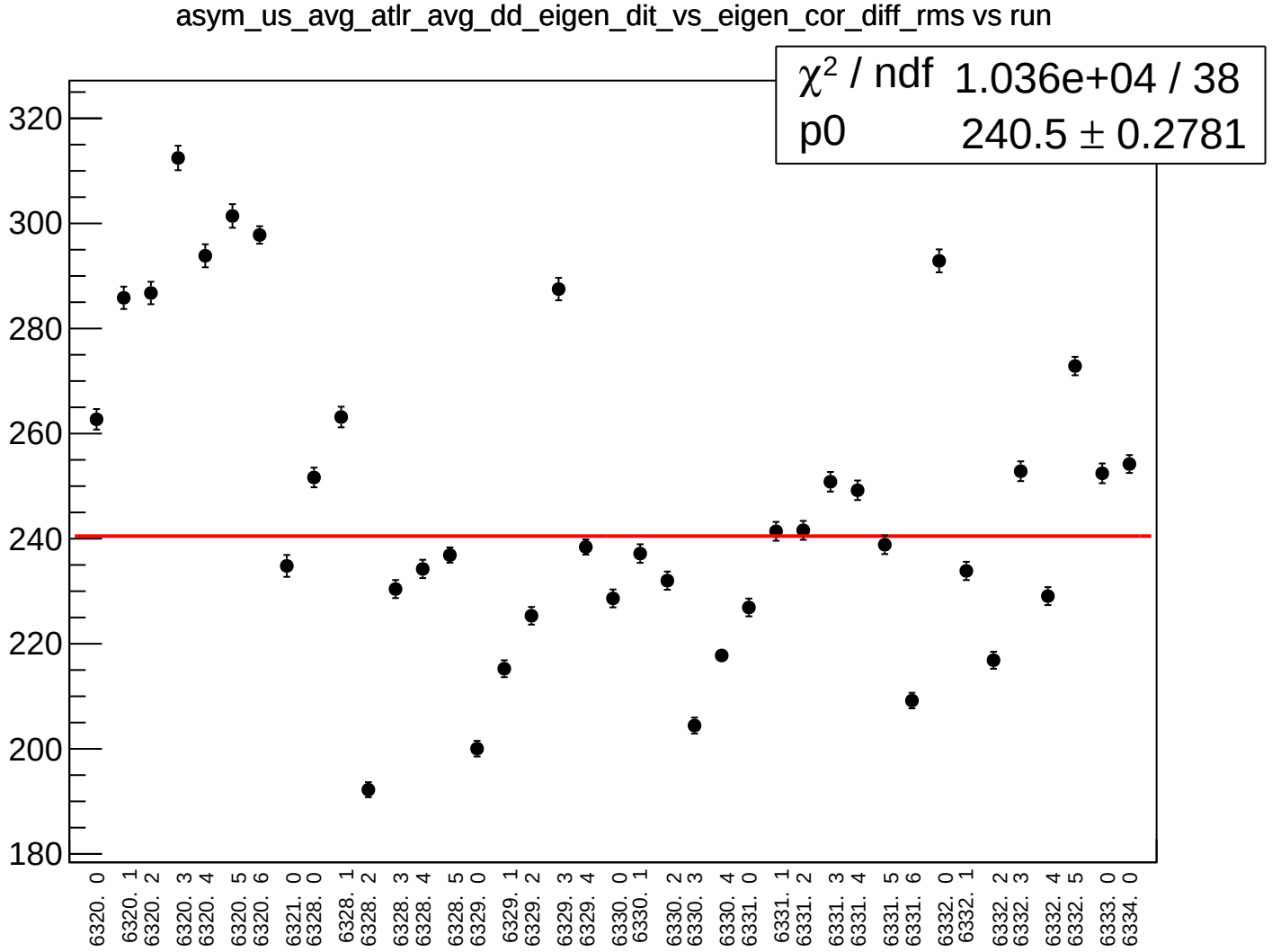

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.25e+04 / 38
p0 0.01262 ± 1.462e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

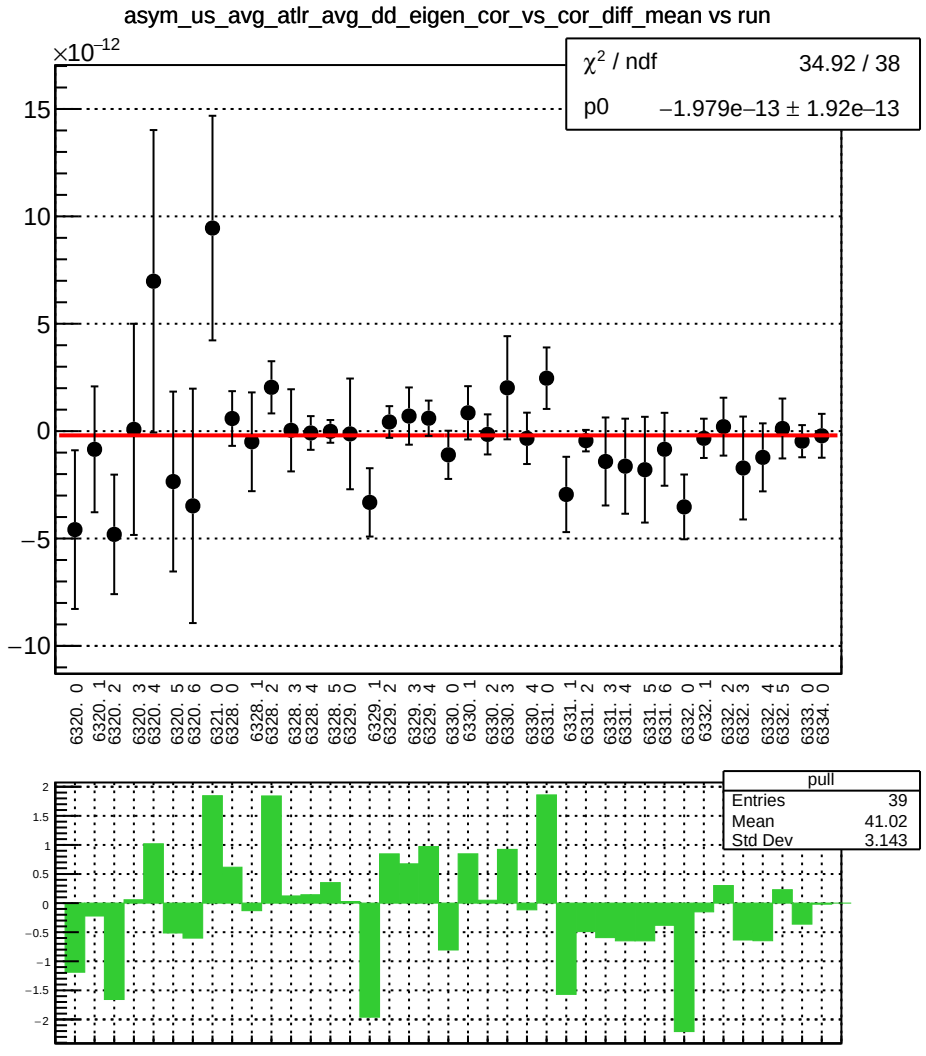

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.16 / 38
p0 0.01507 ± 0.3933
pull
Entries 39
Mean −100
Std Dev 0
pull1D
Entries 39
Mean −0.01399
Std Dev 0.9761

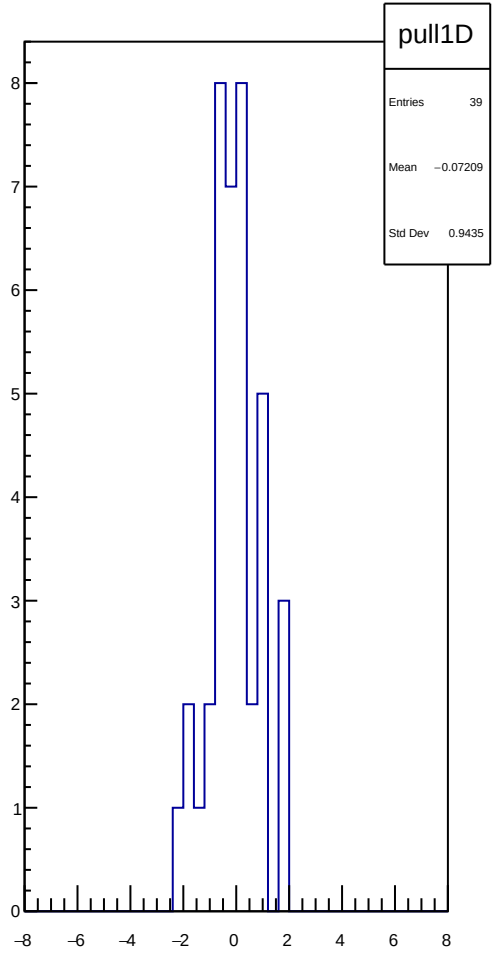

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.036e+04 / 38
p0 240.5 ± 0.2781
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

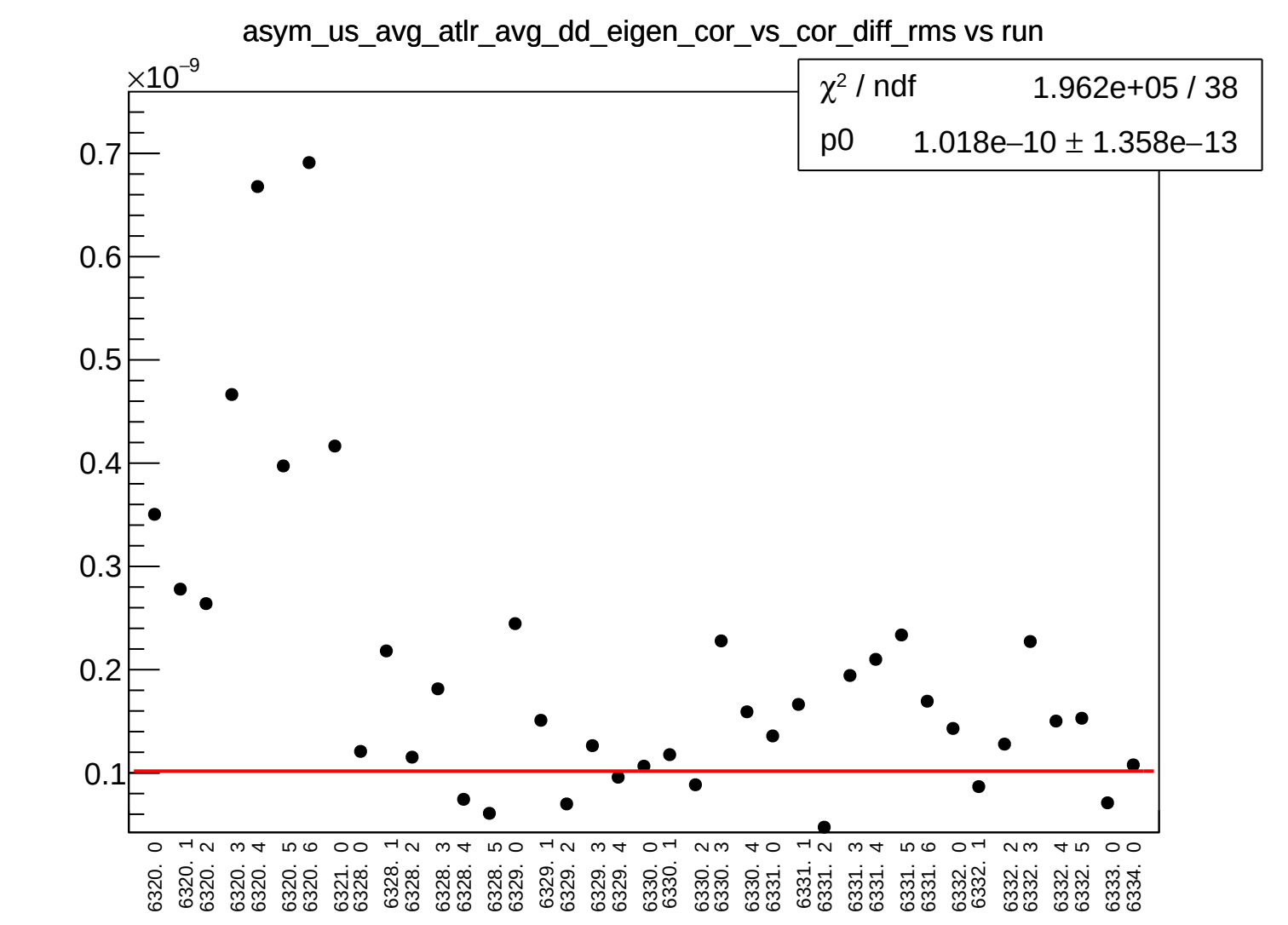

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.16 / 38
p0 0.01507 ± 0.3933
pull
Entries 39
Mean −100
Std Dev 0

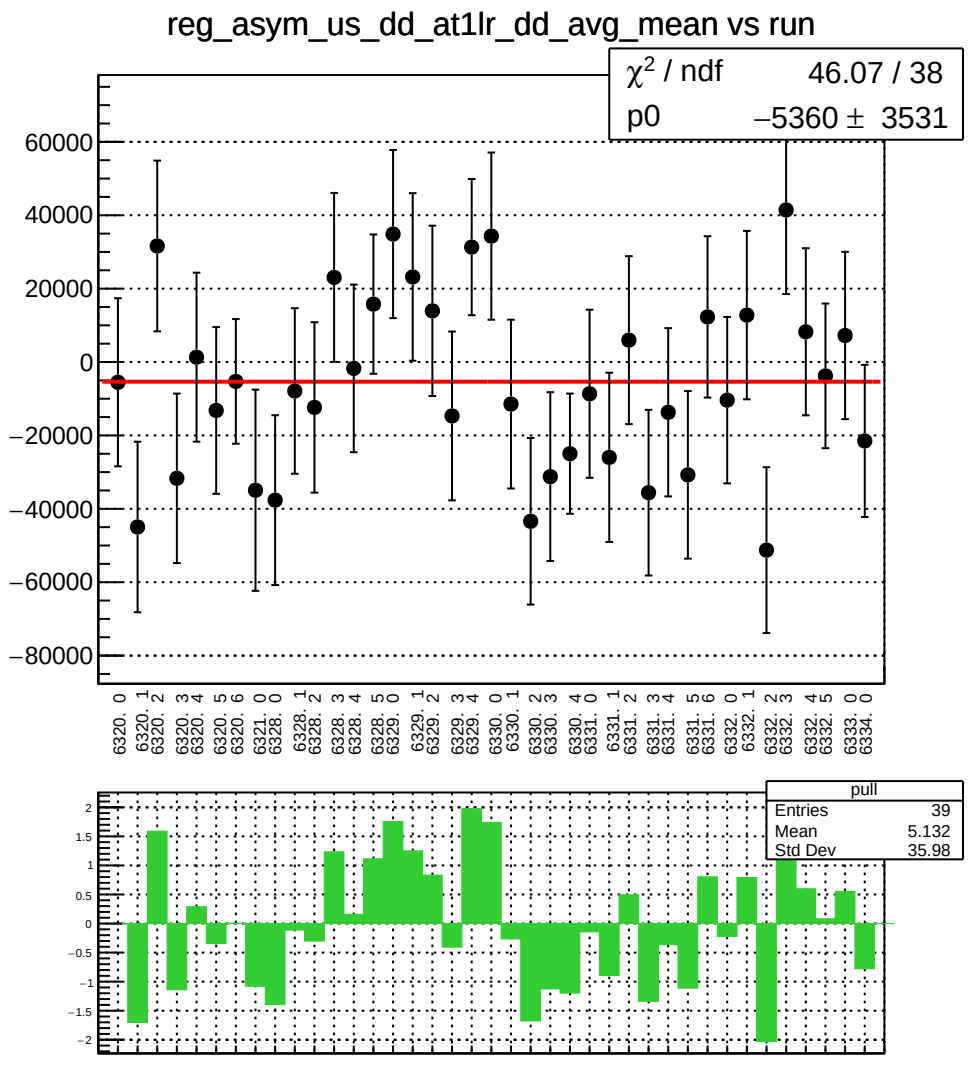

pull1D
Entries 39
Mean −0.01399
Std Dev 0.9761

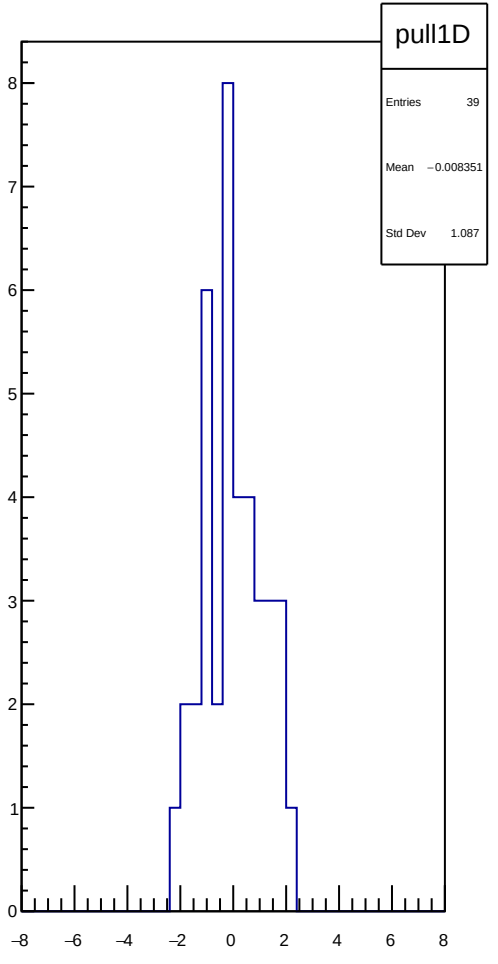

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.036e+04 / 38
p0 240.5 ± 0.2781
320
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

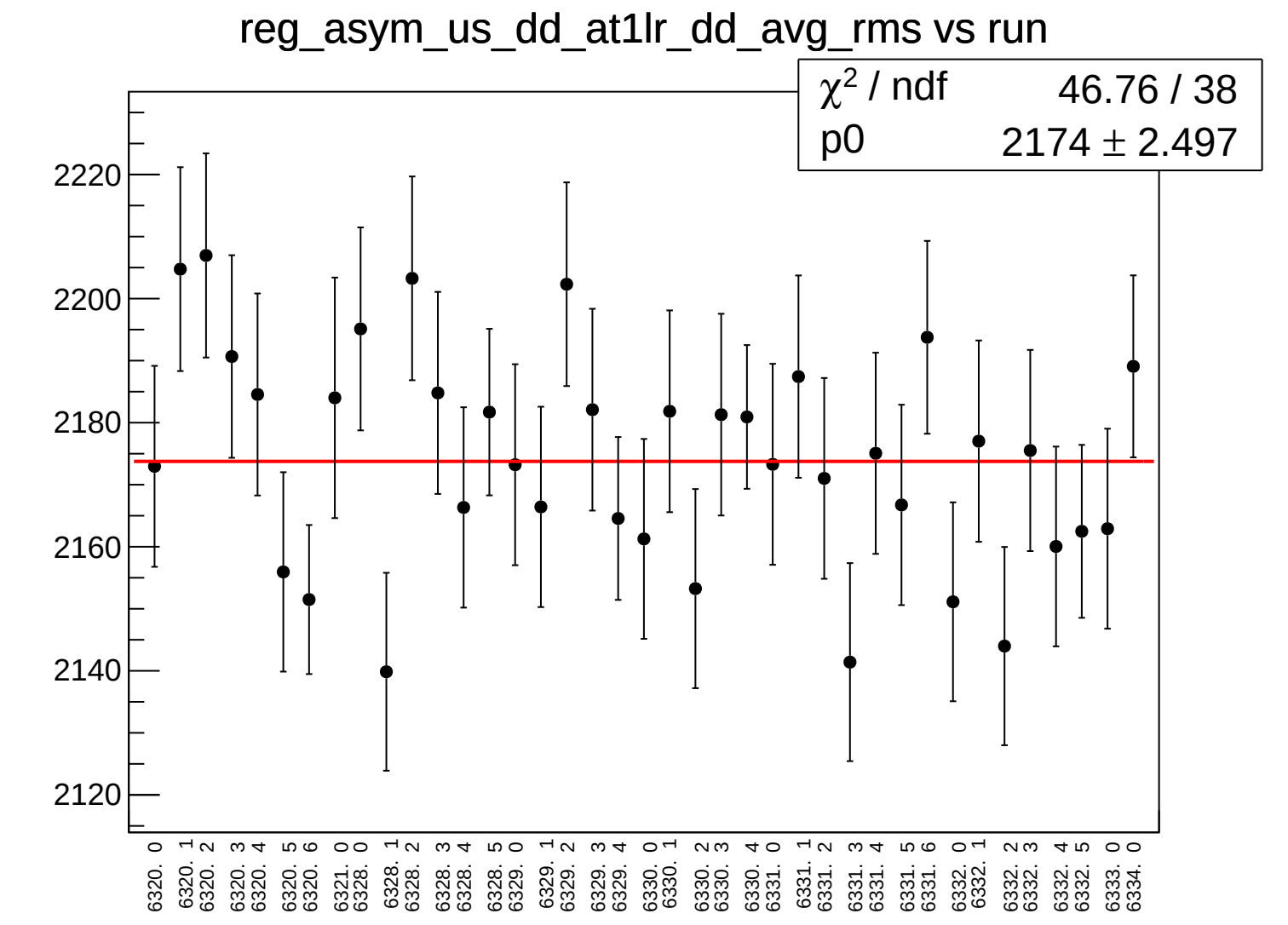

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.92 / 38
p0 −1.979e−13 ± 1.92e−13
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 41.02
Std Dev 3.143
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

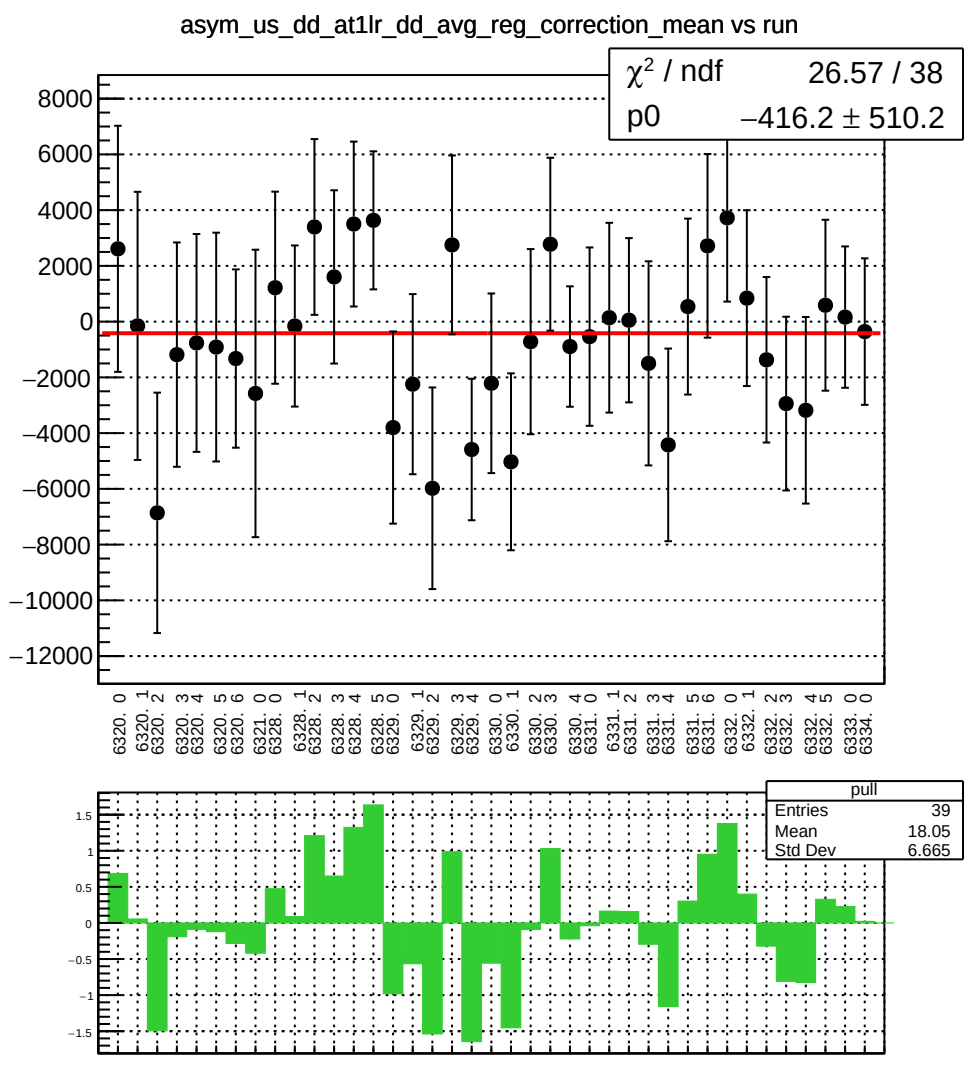

pull1D
Entries 39
Mean −0.07209
Std Dev 0.9435
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

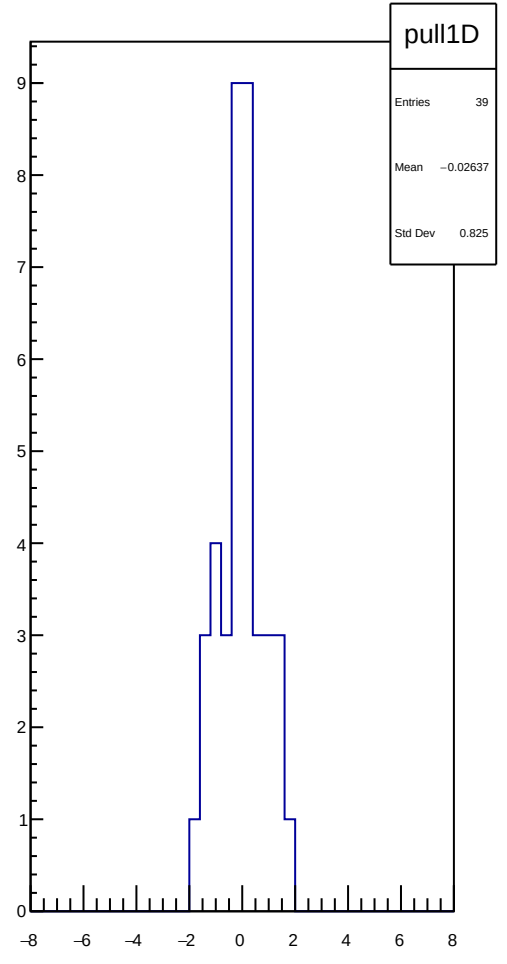

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.962e+05 / 38
p0 1.018e−10 ± 1.358e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

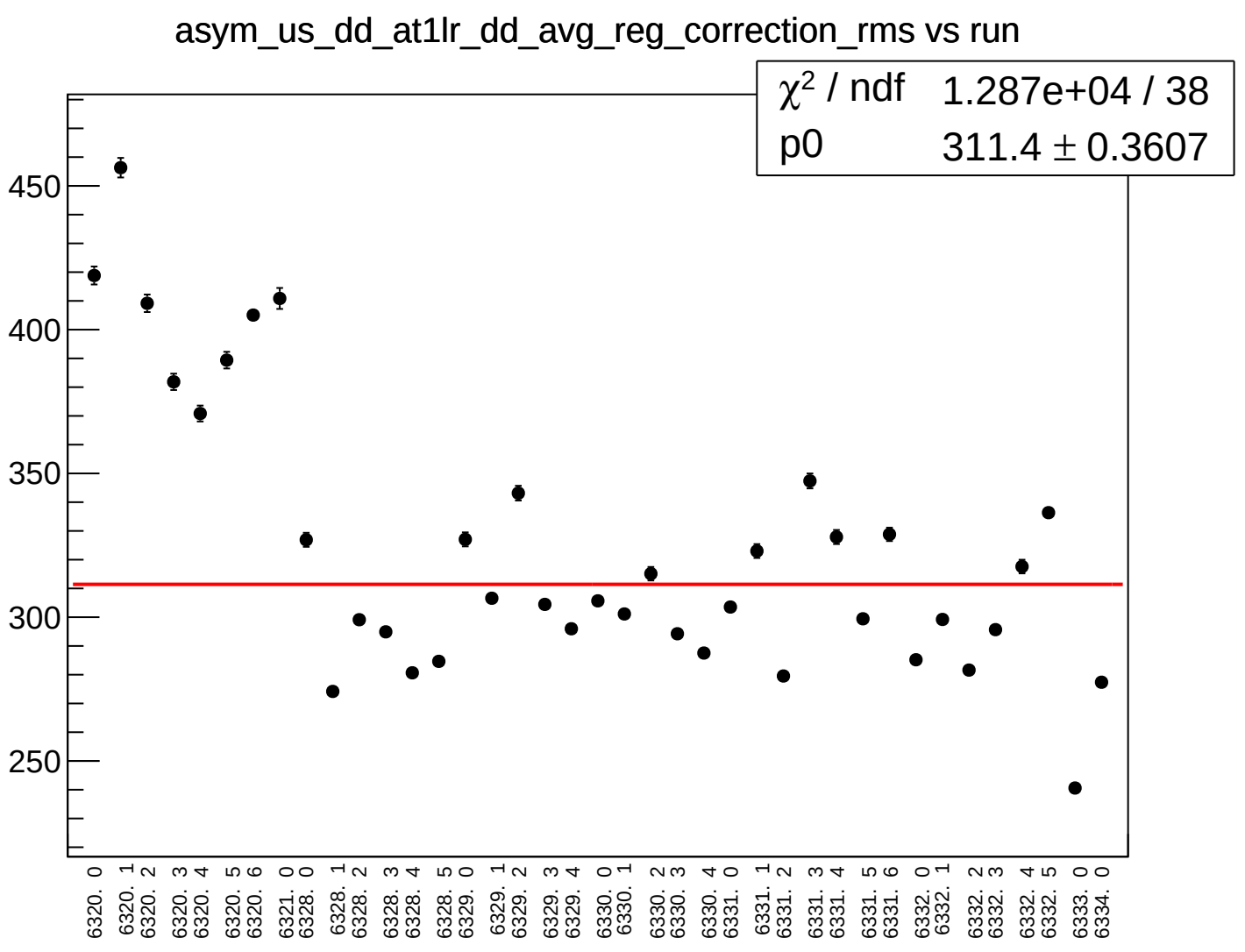

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 46.07 / 38
p0 −5360 ± 3531
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.132
Std Dev 35.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

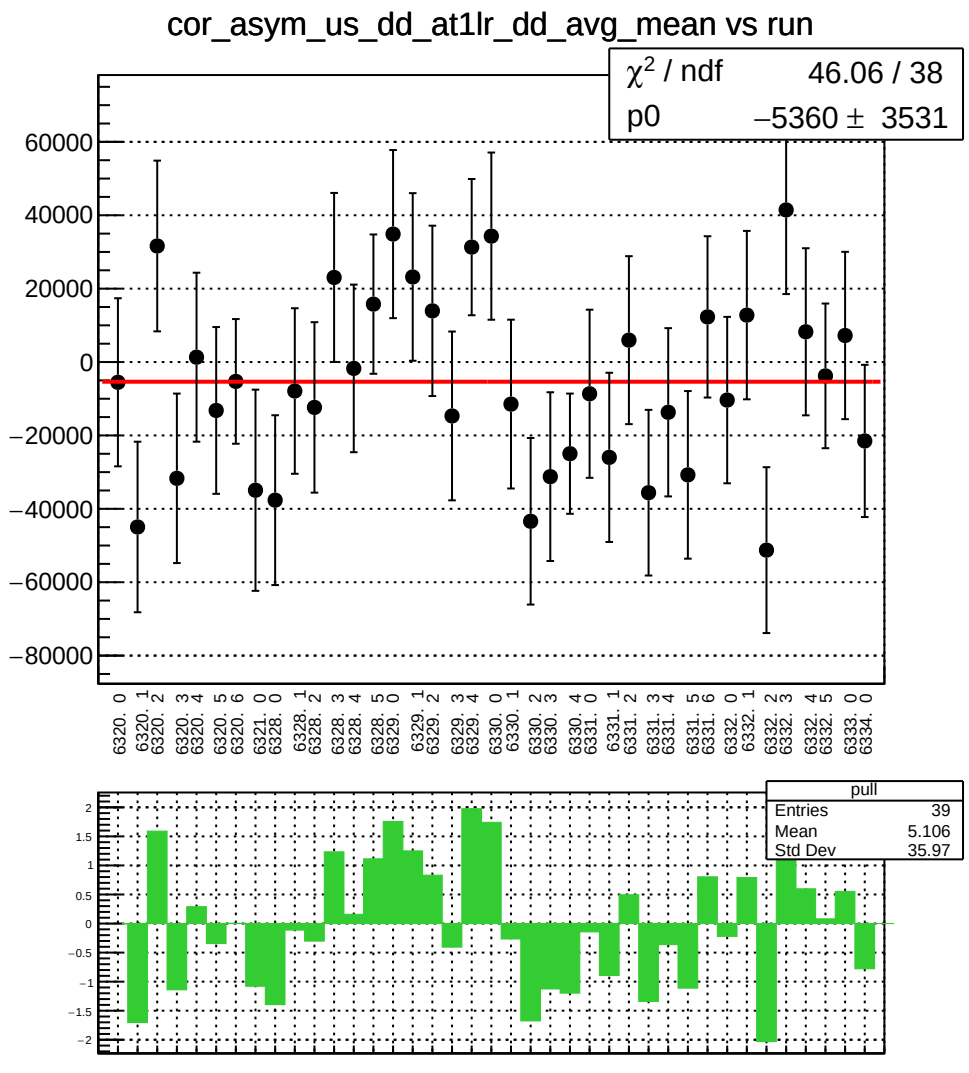

pull1D
Entries 39
Mean −0.008351
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

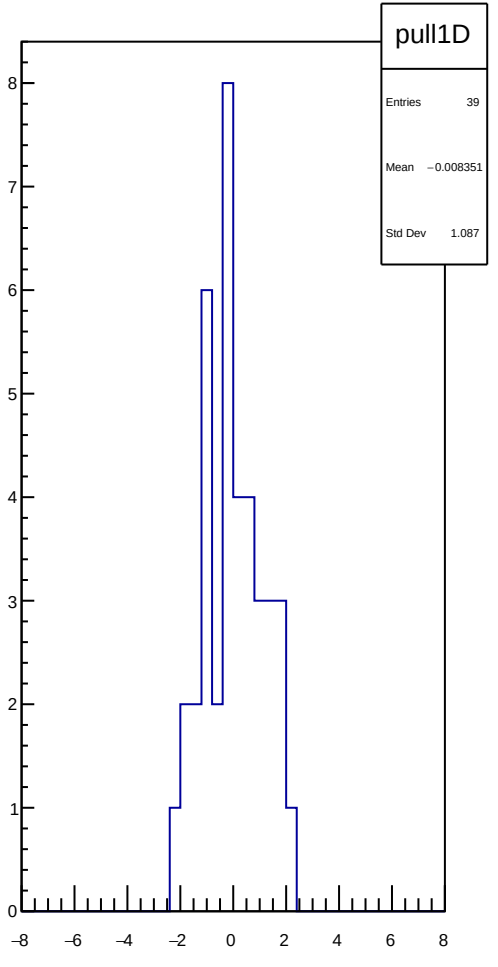

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 46.76 / 38
p0 2174 ± 2.497
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

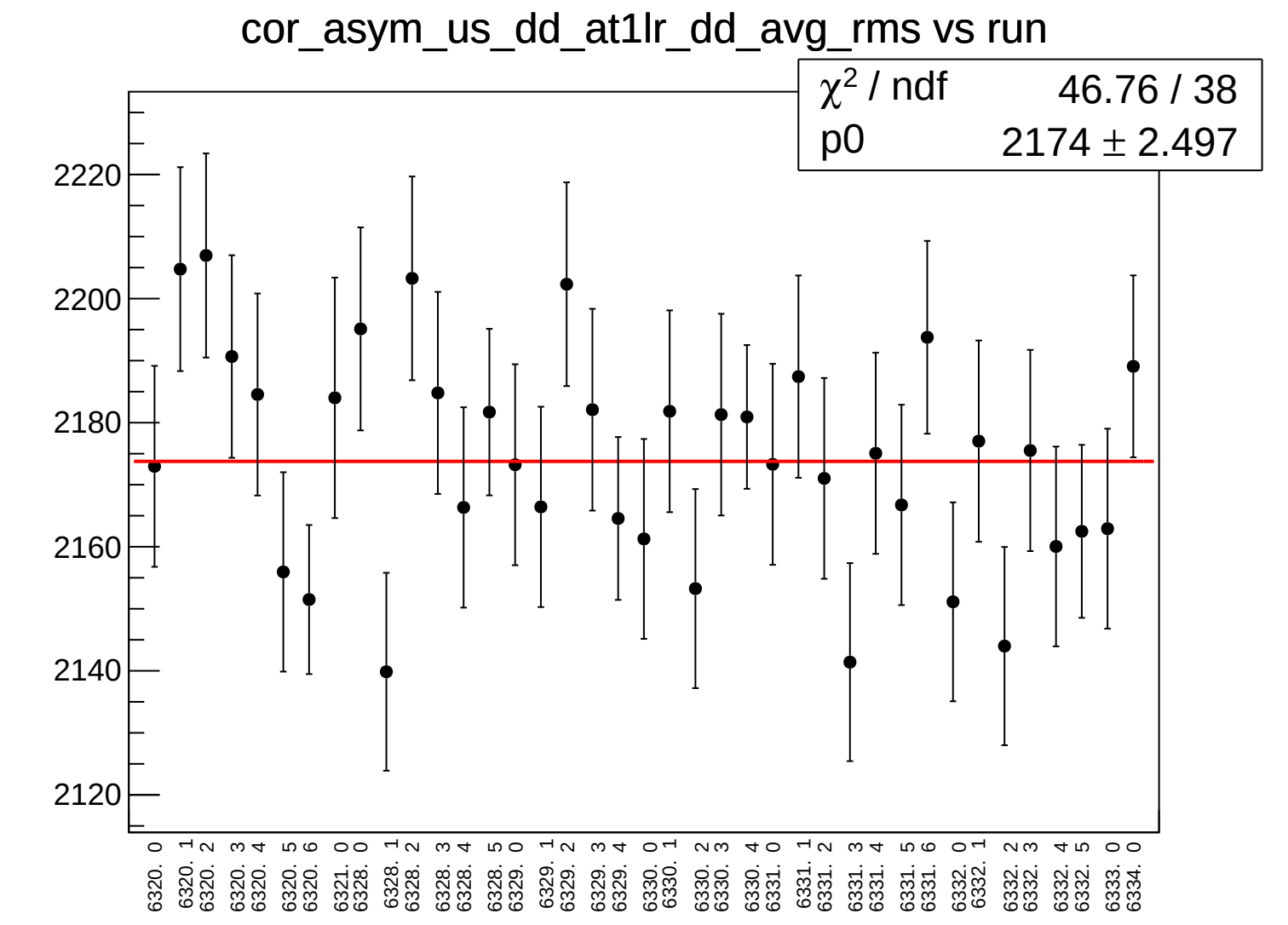

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 26.57 / 38
p0 −416.2 ± 510.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 18.05
Std Dev 6.665
1.5
1
0.5
0
−0.5
−1
−1.5

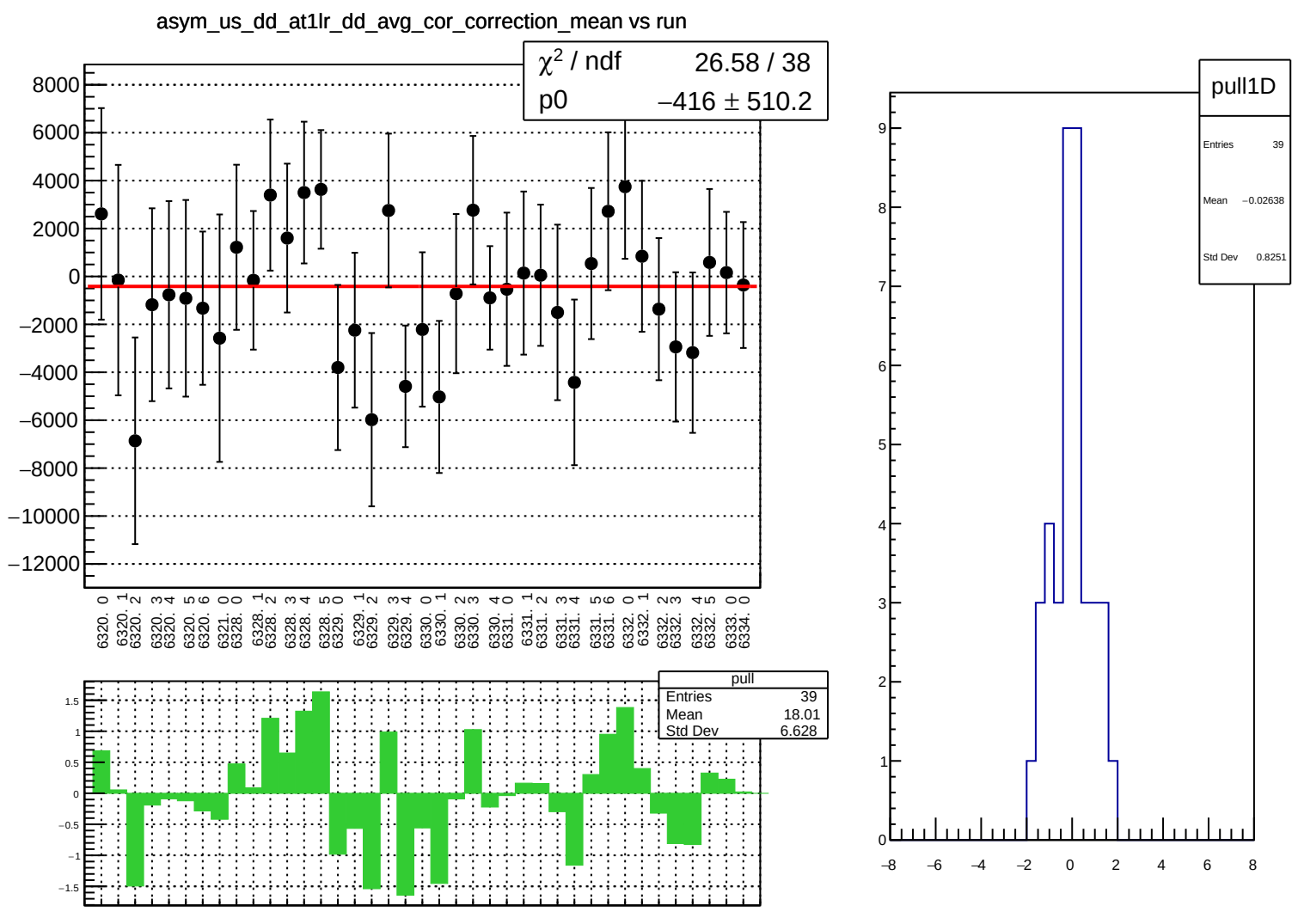

pull1D
Entries 39
Mean −0.02637
Std Dev 0.825
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

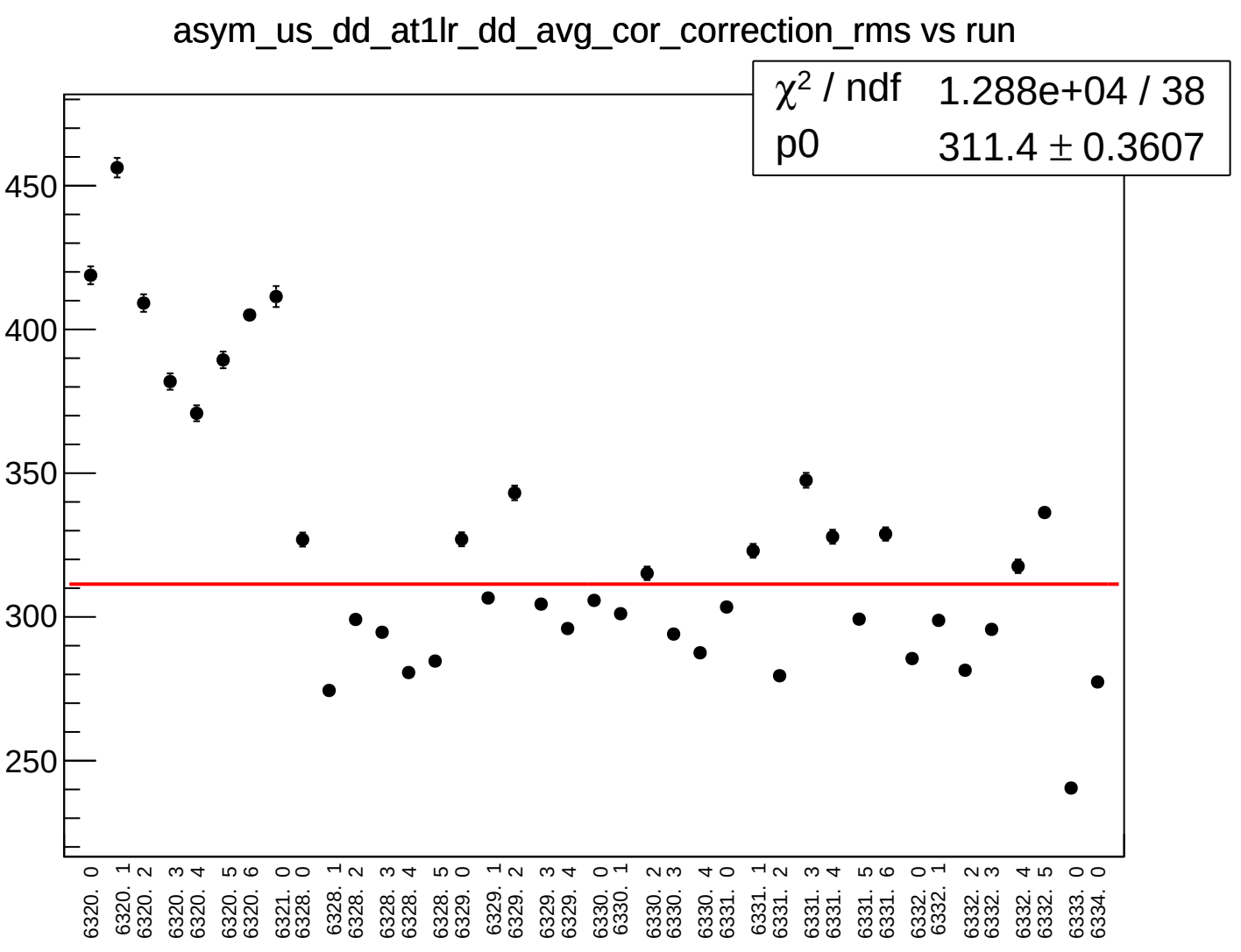

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.287e+04 / 38
p0 311.4 ± 0.3607
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

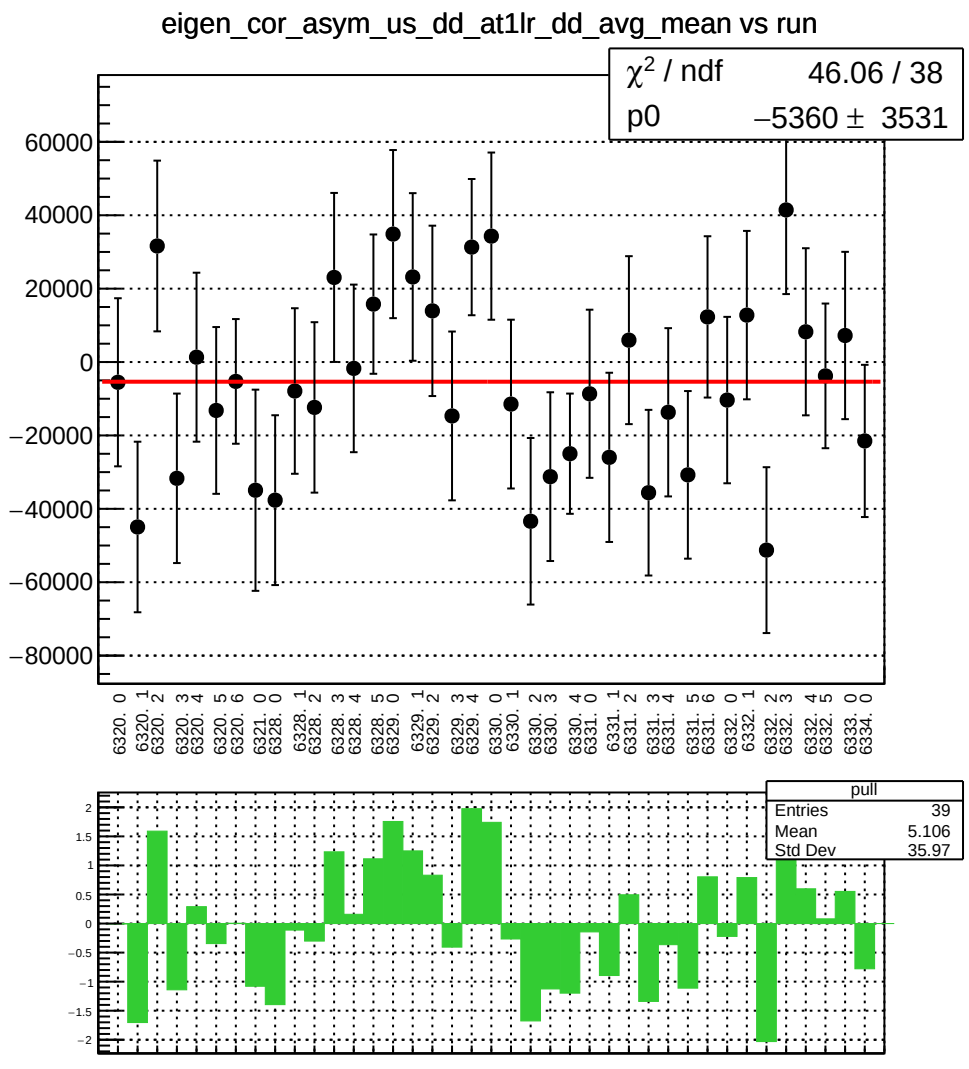

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 46.06 / 38
p0 −5360 ± 3531
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.106
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

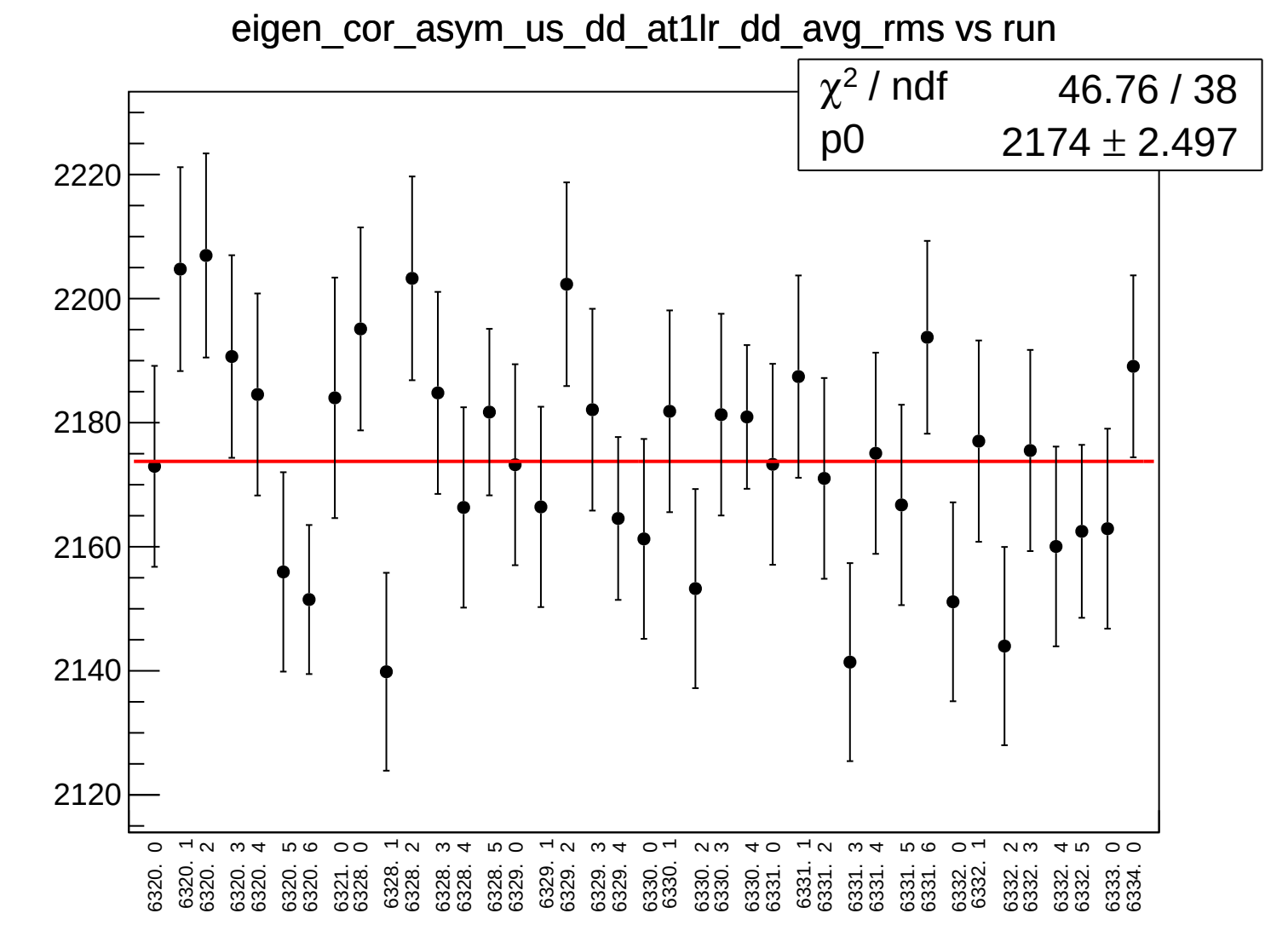

pull1D
Entries 39
Mean −0.008351
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

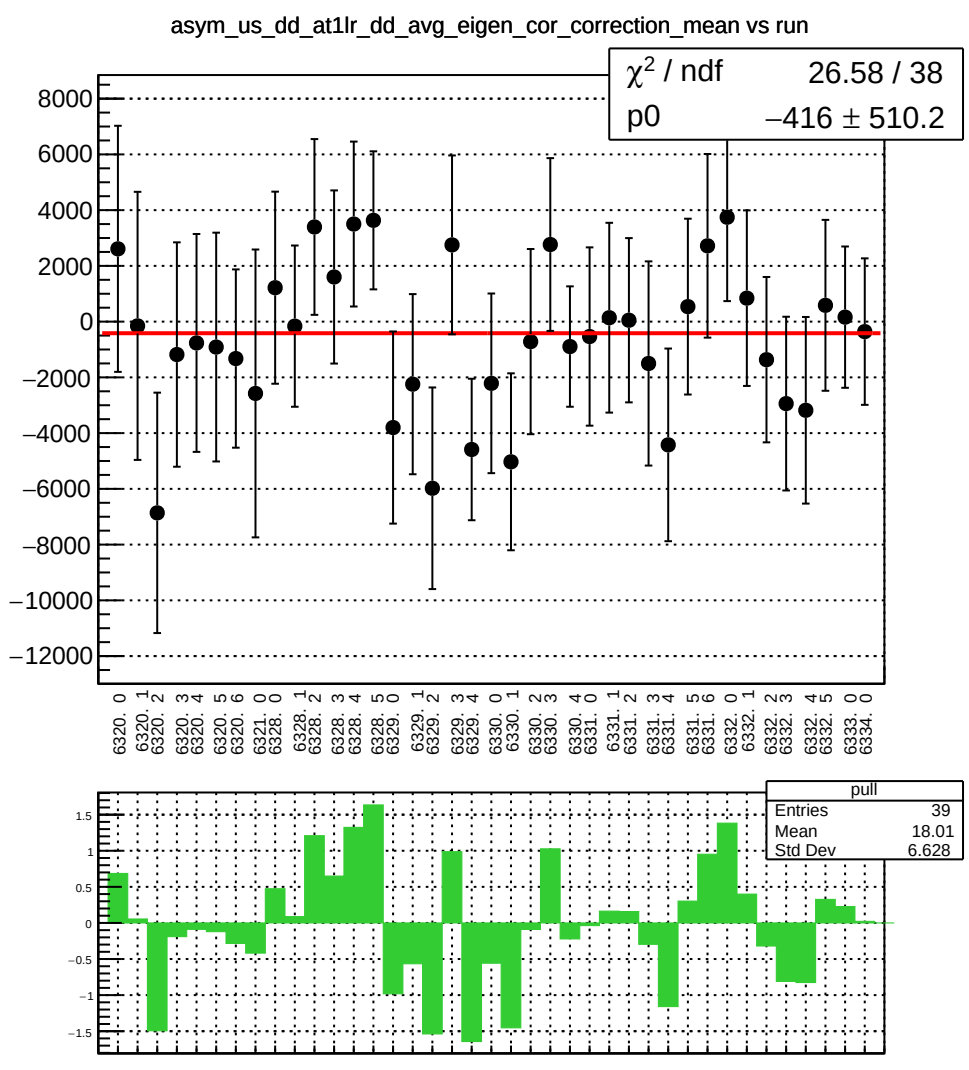

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 46.76 / 38
p0 2174 ± 2.497
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

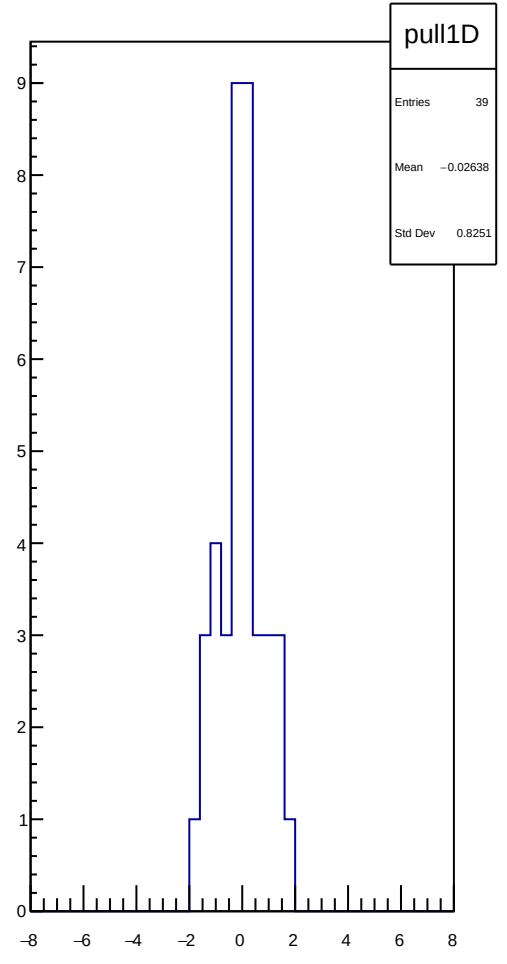

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 26.58 / 38
p0 −416 ± 510.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 18.01
Std Dev 6.628
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02638
Std Dev 0.8251
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_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 38
p0 311.4 ± 0.3607
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 46.06 / 38
p0 −5360 ± 3531
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.106
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.008351
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 46.76 / 38
p0 2174 ± 2.497
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 26.58 / 38
p0 −416 ± 510.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 18.01
Std Dev 6.628
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.02638
Std Dev 0.8251
9
8
7
6
5
4
3
2
1
0
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−4
−2
0
2
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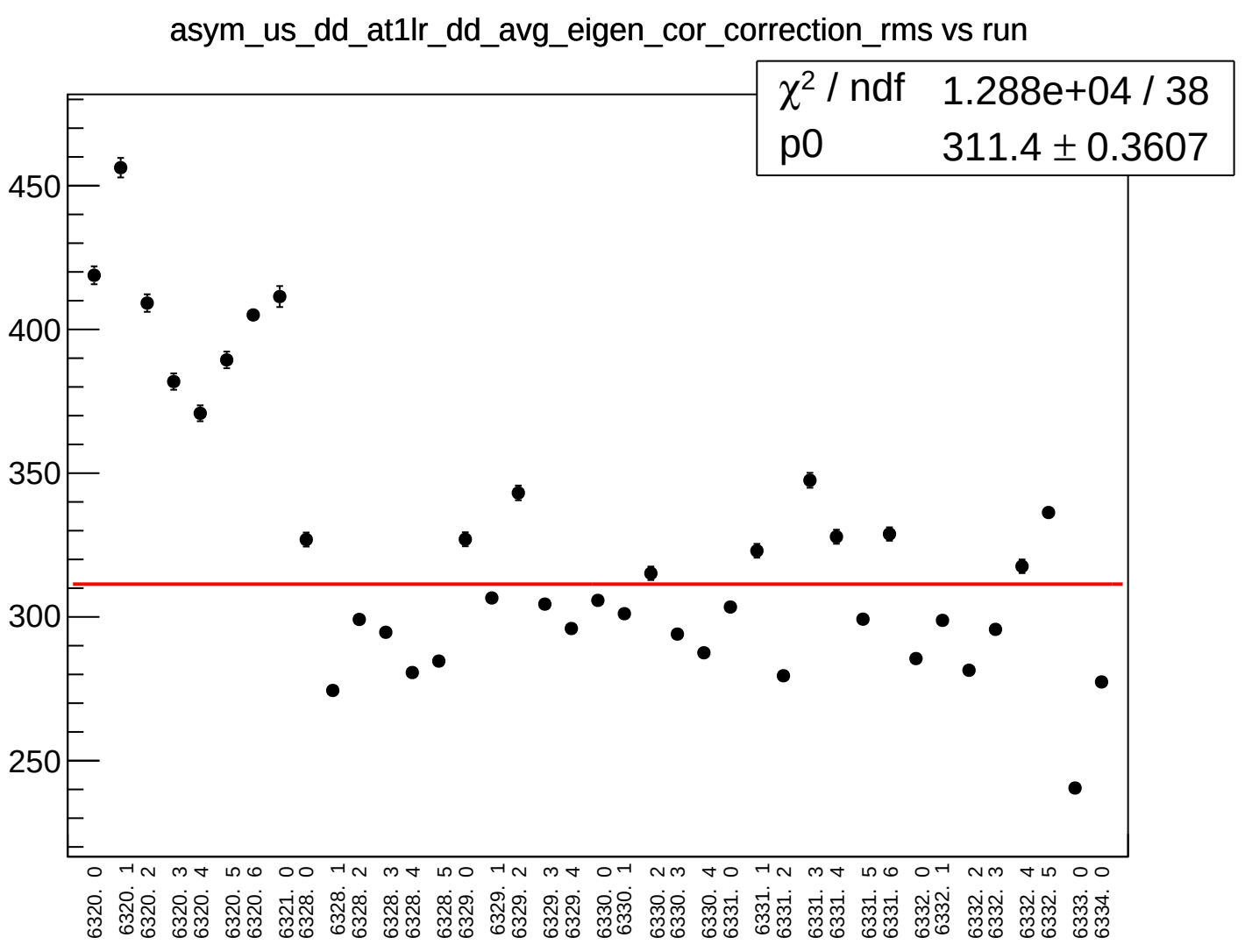
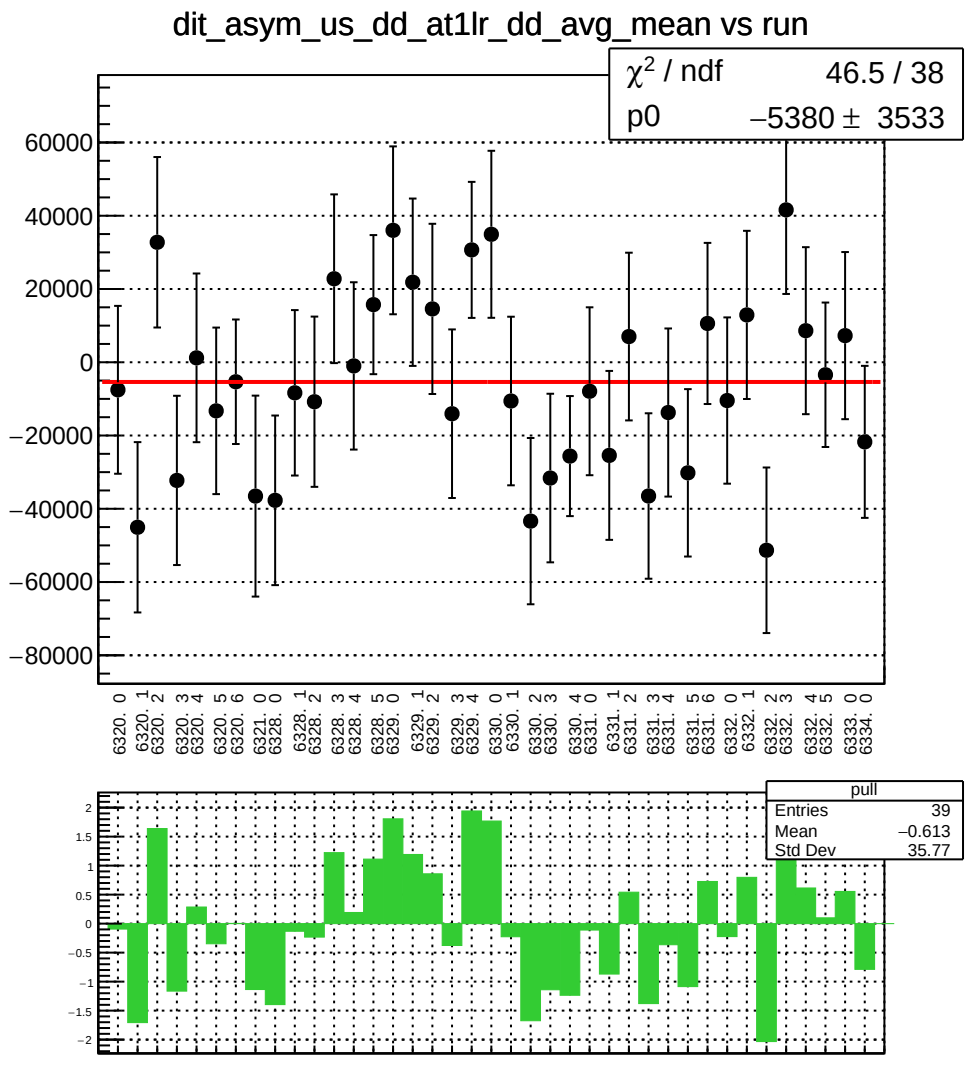
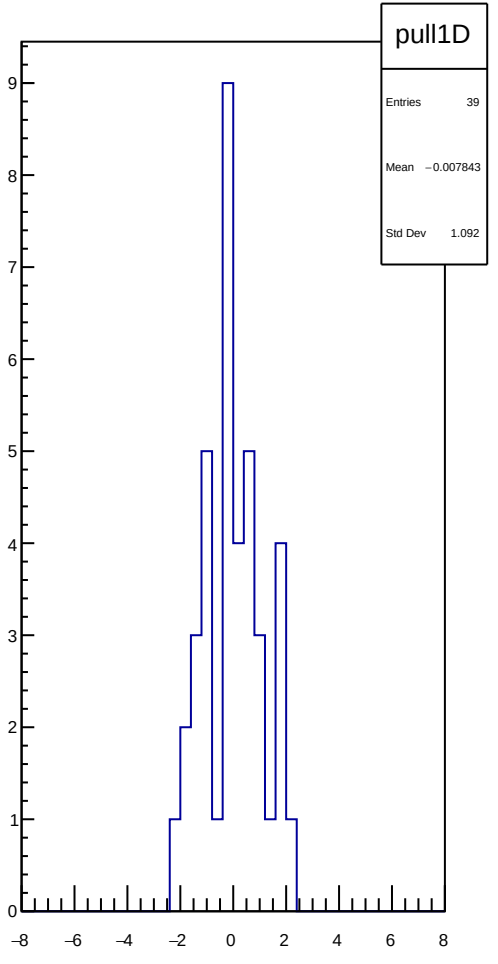
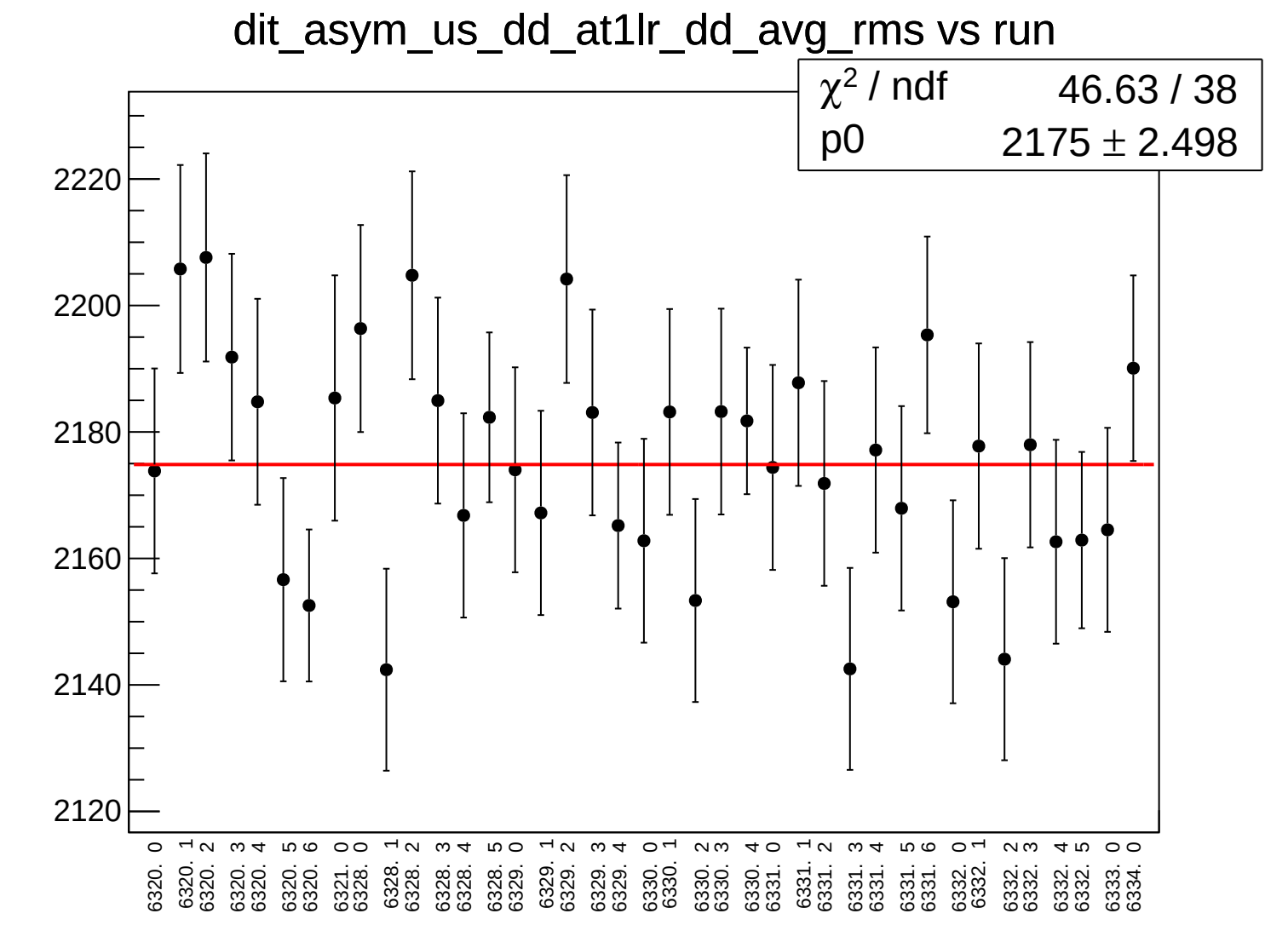
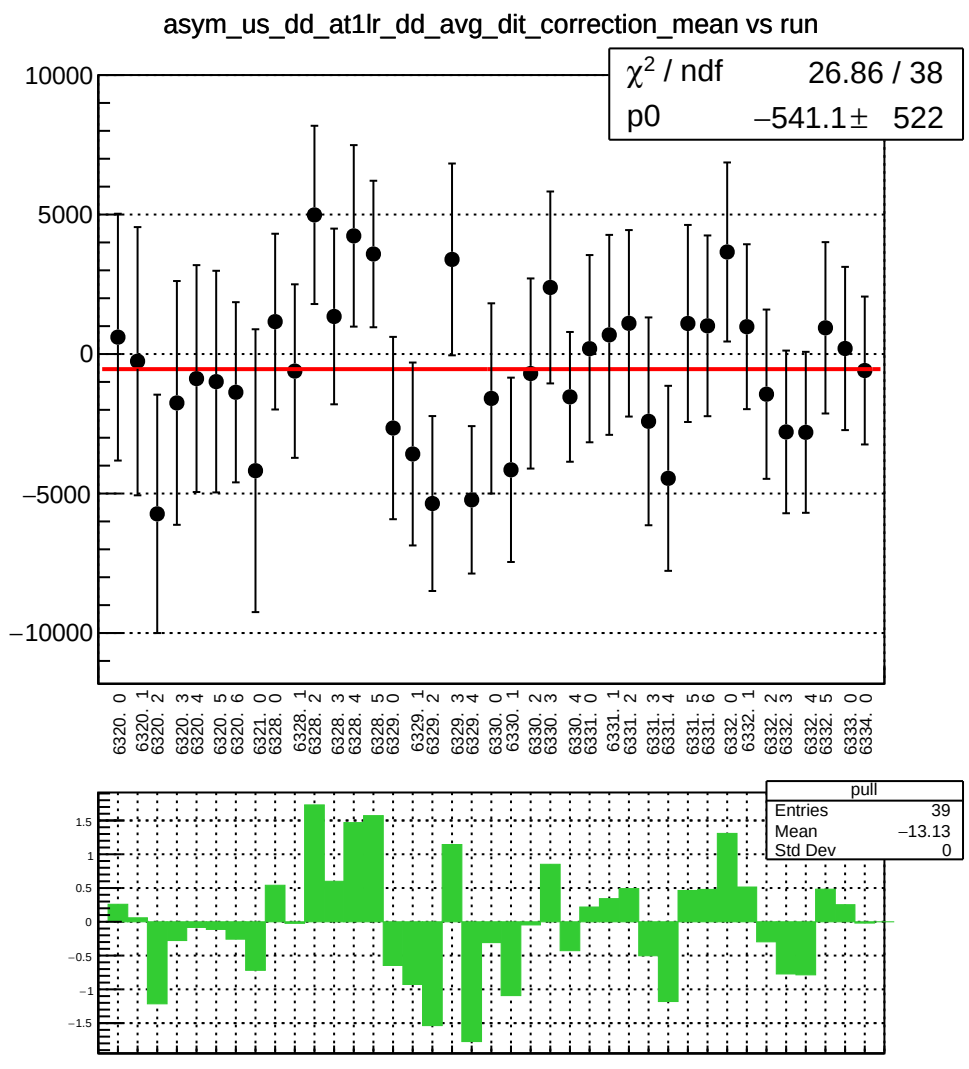
6
8

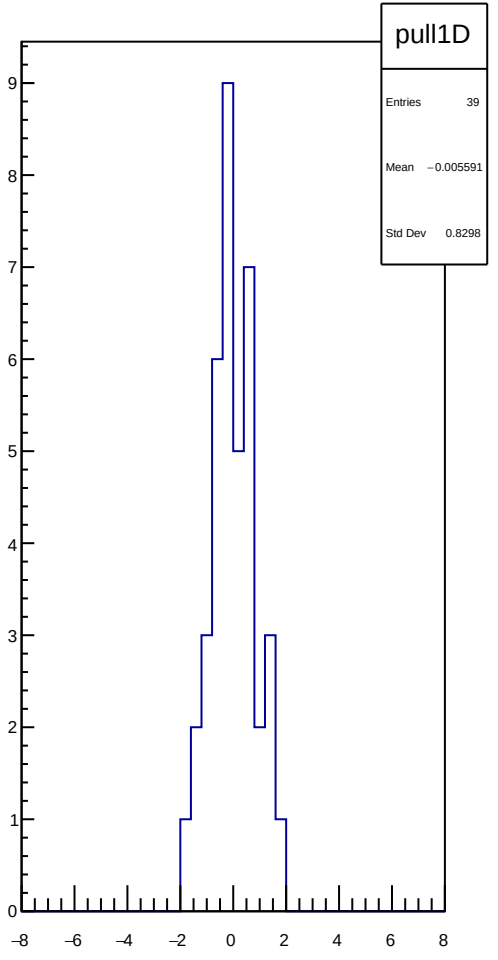

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 38
p0 311.4 ± 0.3607
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

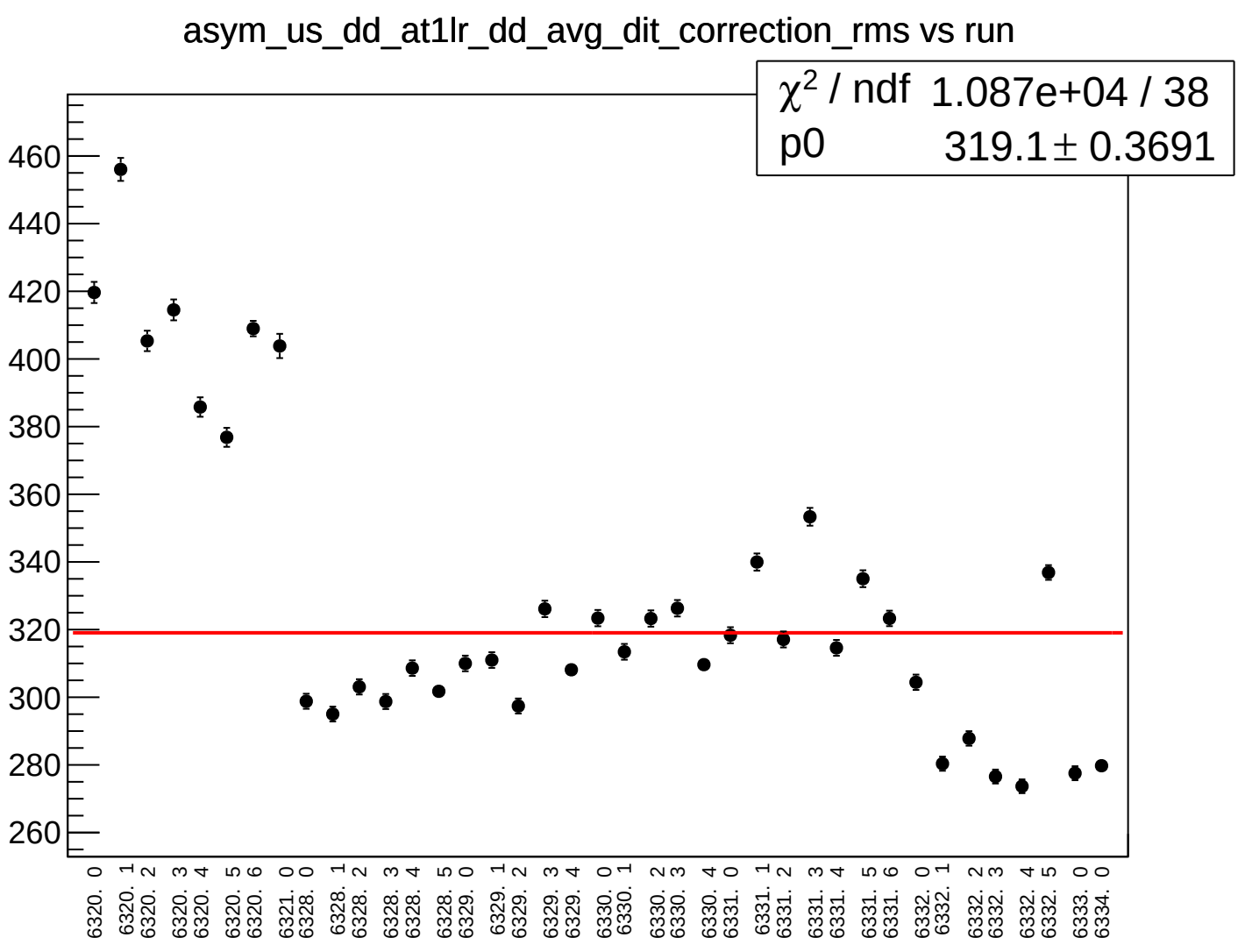

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 46.5 / 38
p0 −5380 ± 3533
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −0.613
Std Dev 35.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.007843
Std Dev 1.092
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 46.63 / 38
p0 2175 ± 2.498
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 26.86 / 38
p0 −541.1 ± 522
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.005591
Std Dev 0.8298
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 1.087e+04 / 38
p0 319.1 ± 0.3691
460
440
420
400
380
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
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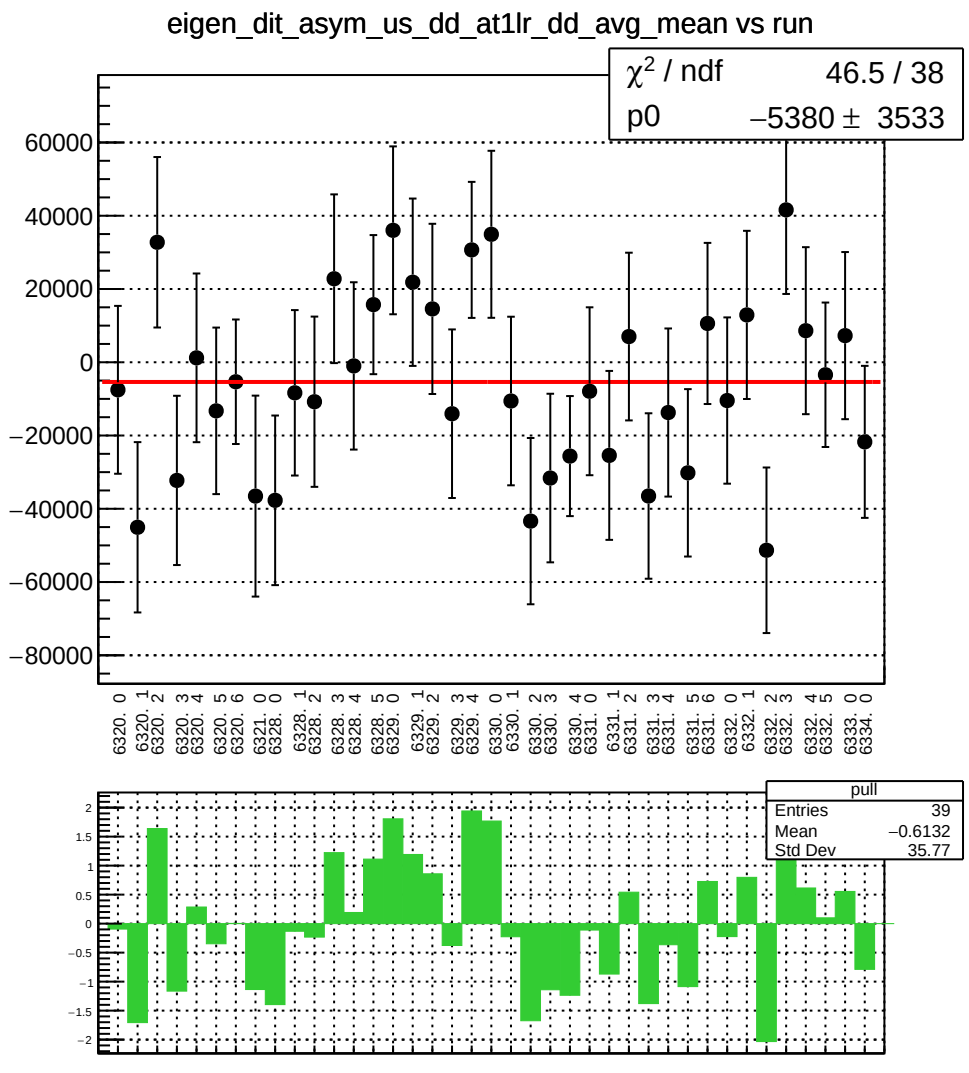
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 46.5 / 38
p0 −5380 ± 3533
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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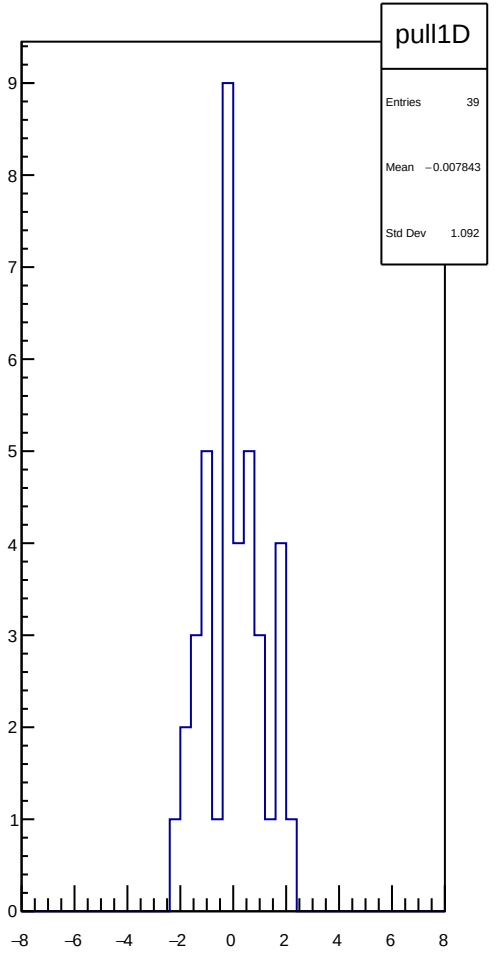
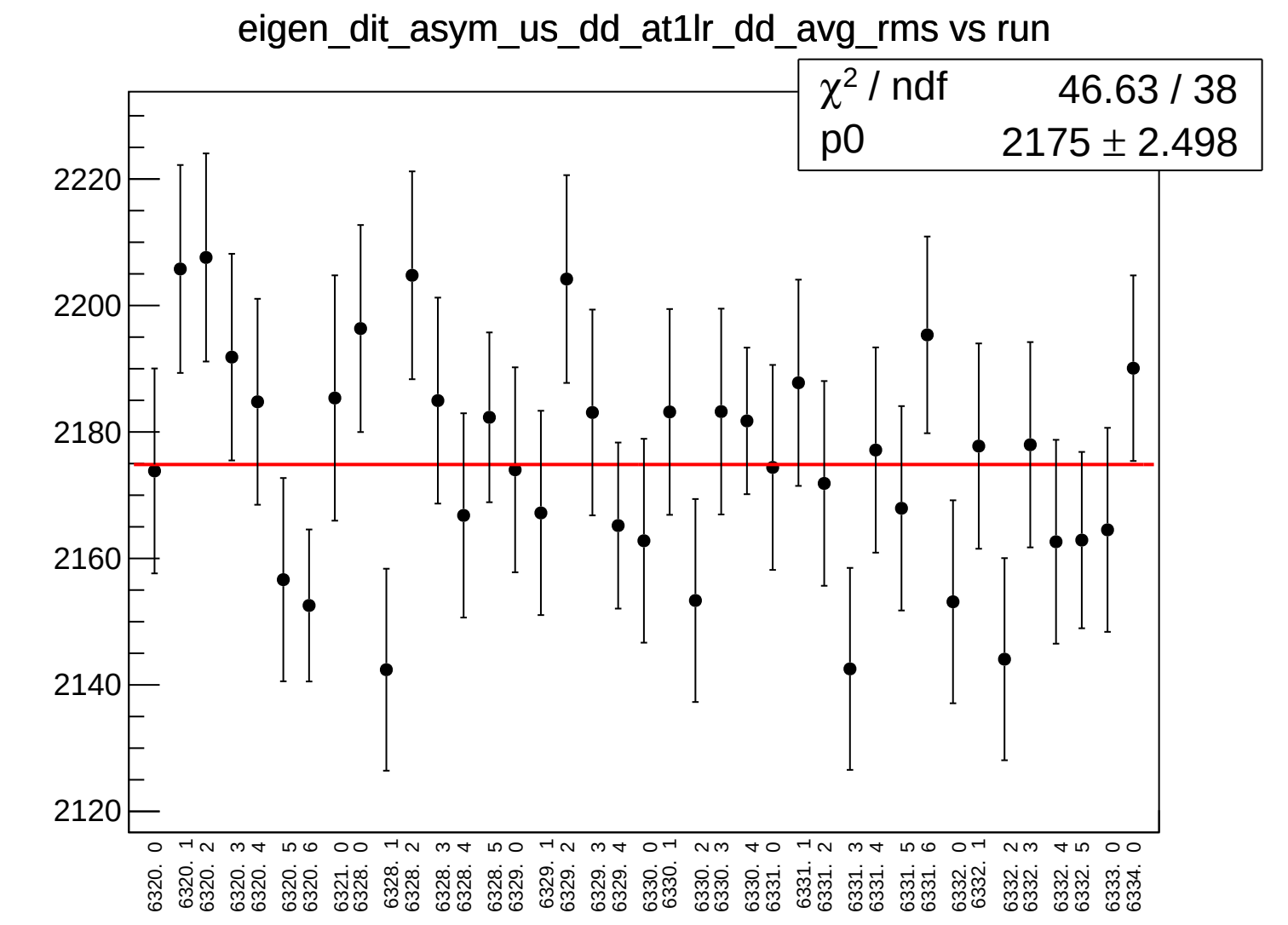
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −0.6132
Std Dev 35.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.007843
Std Dev 1.092
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 46.63 / 38
p0 2175 ± 2.498
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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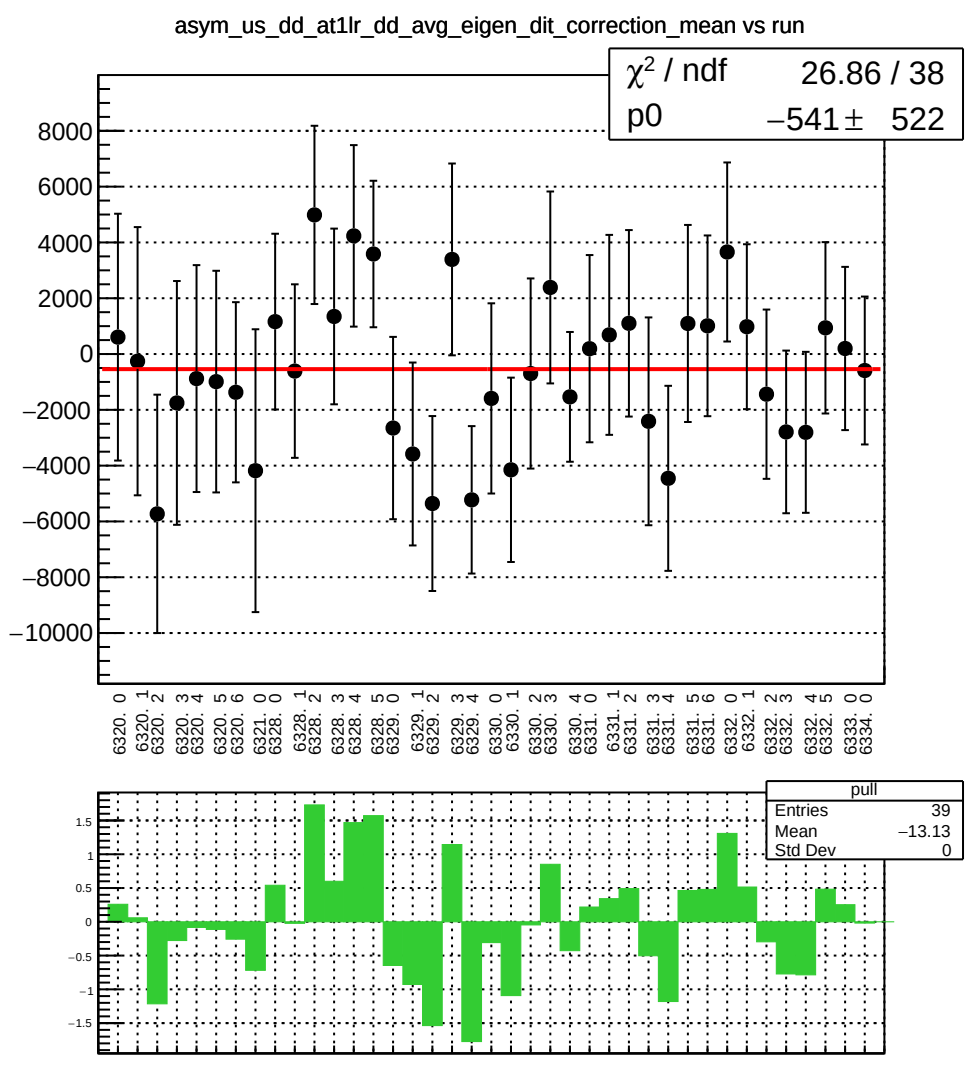
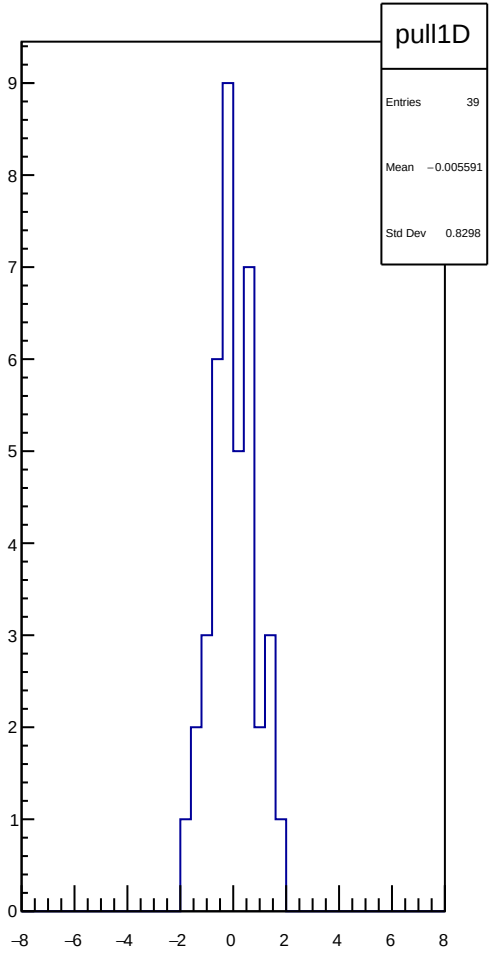
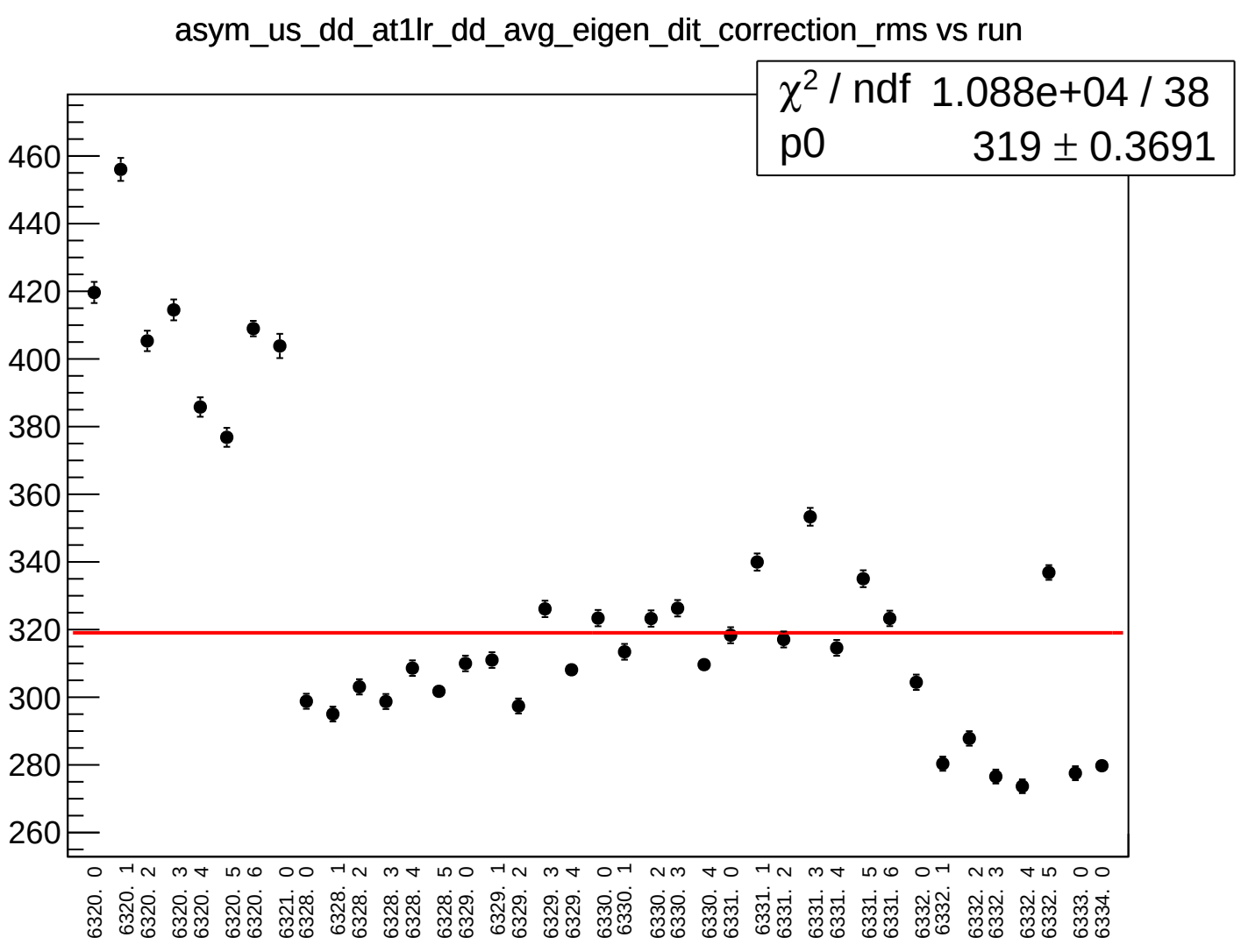
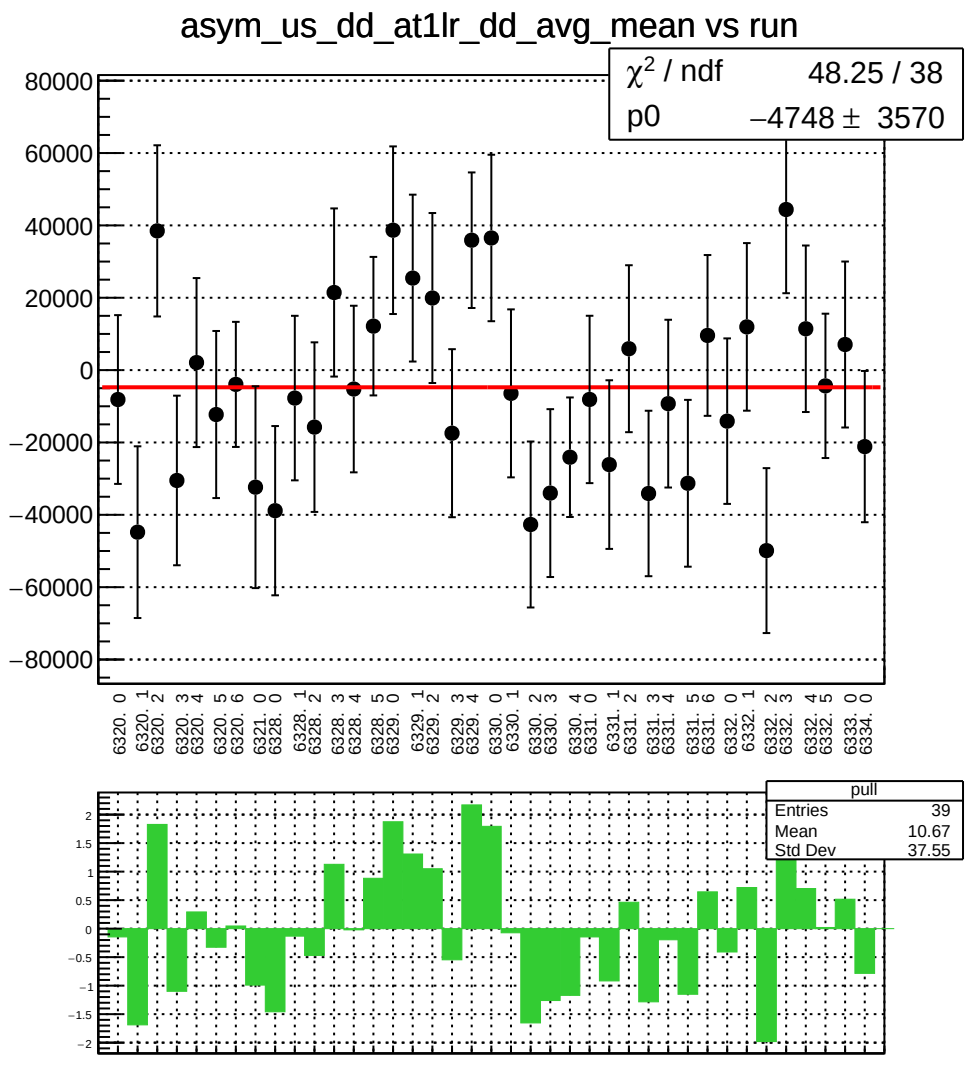
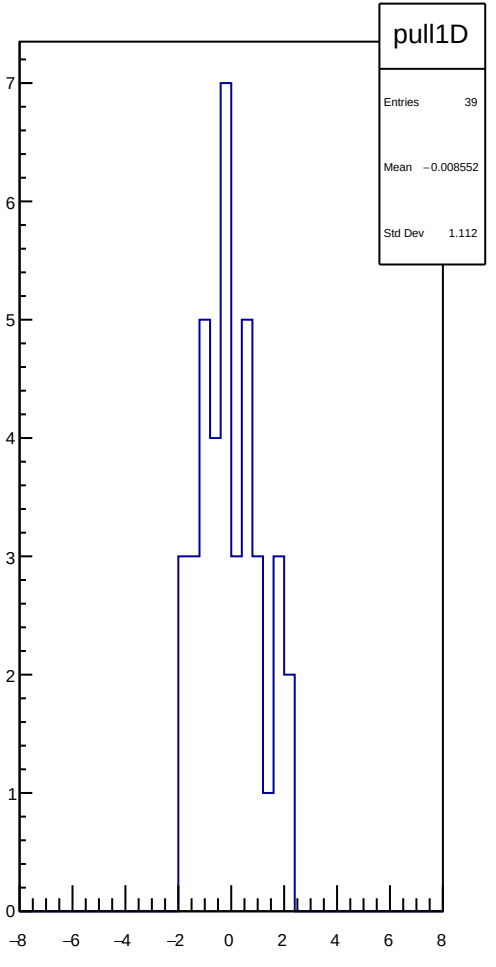
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

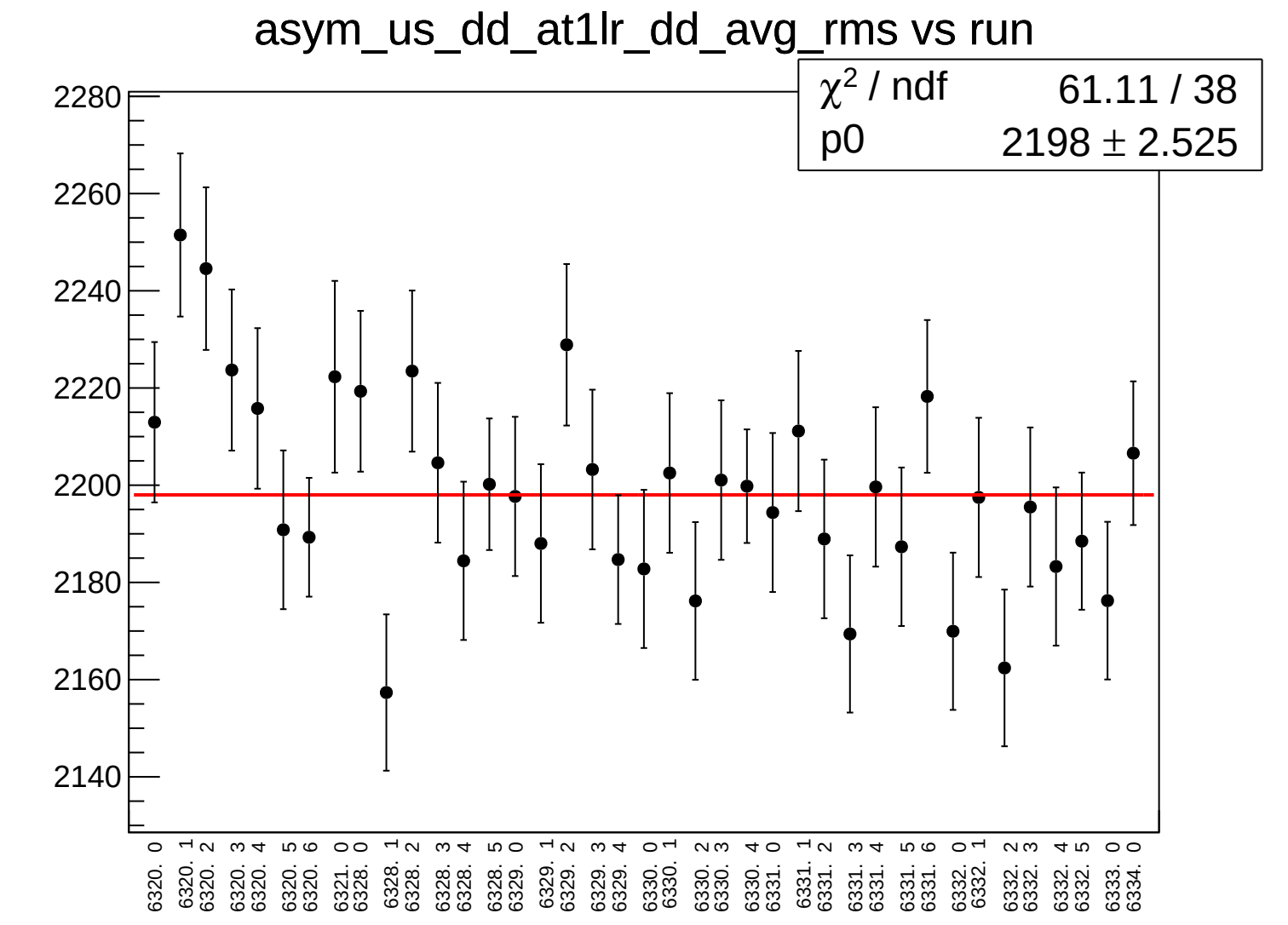

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 26.86 / 38
p0 −541 ± 522
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

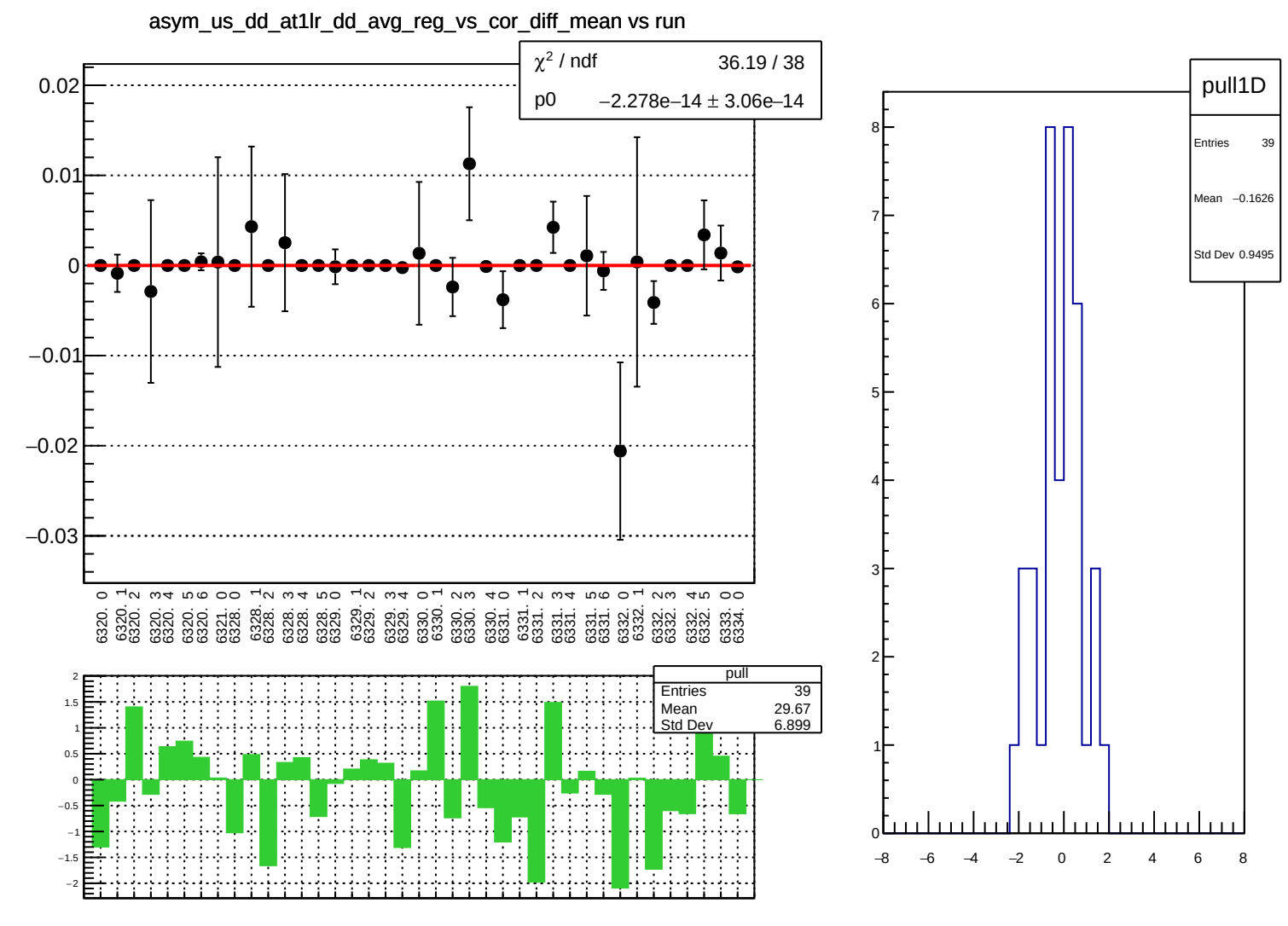

pull1D
Entries 39
Mean −0.005591
Std Dev 0.8298
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

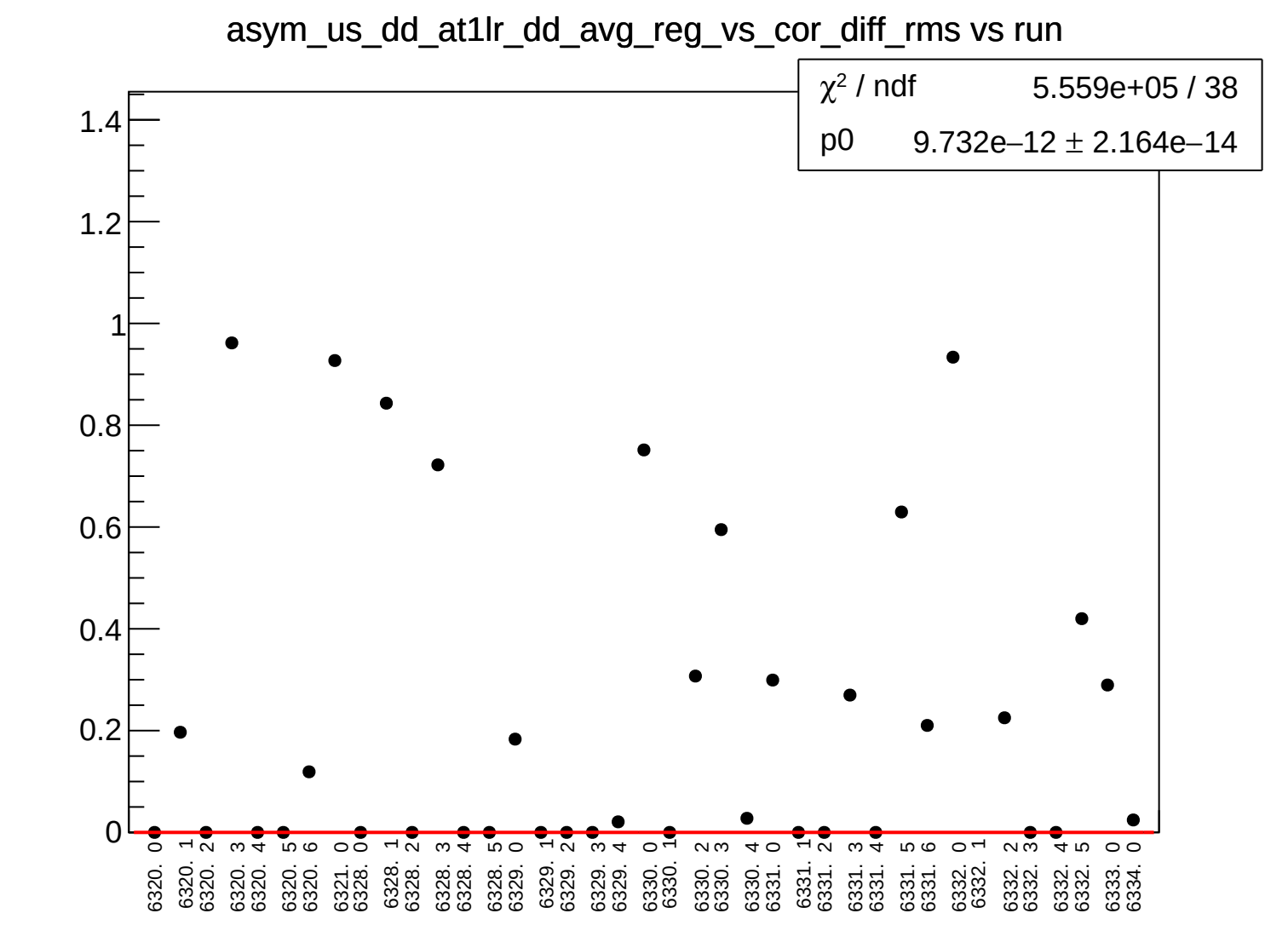

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.088e+04 / 38
p0 319 ± 0.3691
460
440
420
400
380
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

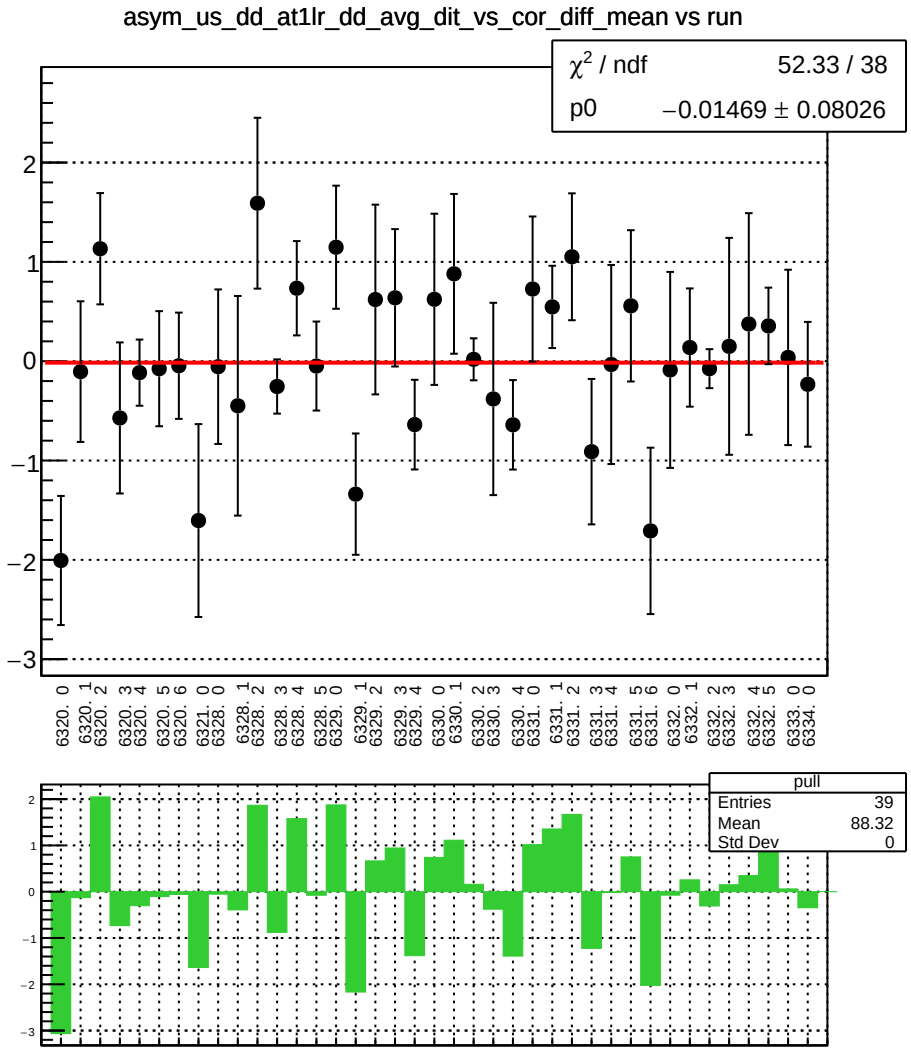

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 48.25 / 38
p0 −4748 ± 3570
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.67
Std Dev 37.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

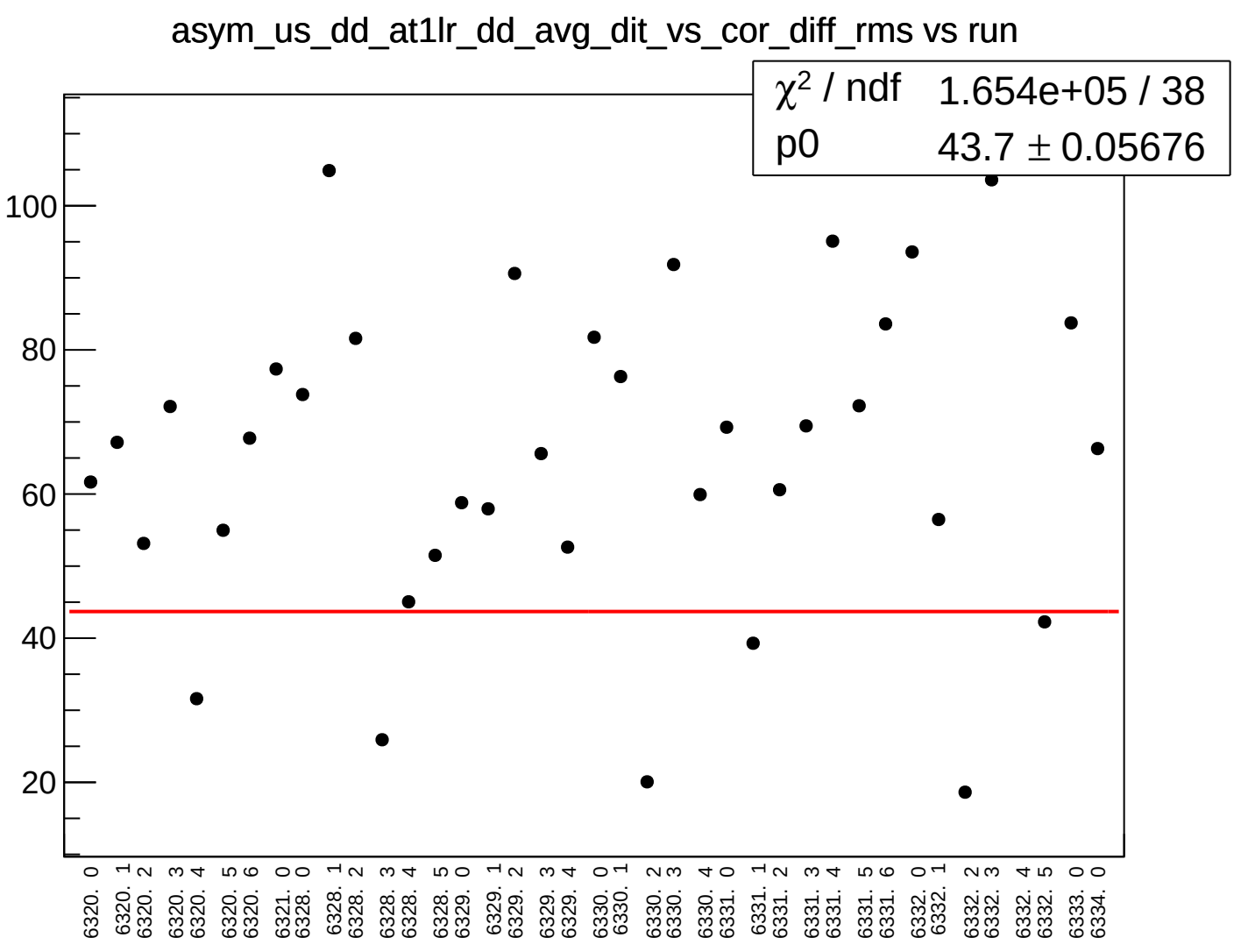

pull1D
Entries 39
Mean −0.008552
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

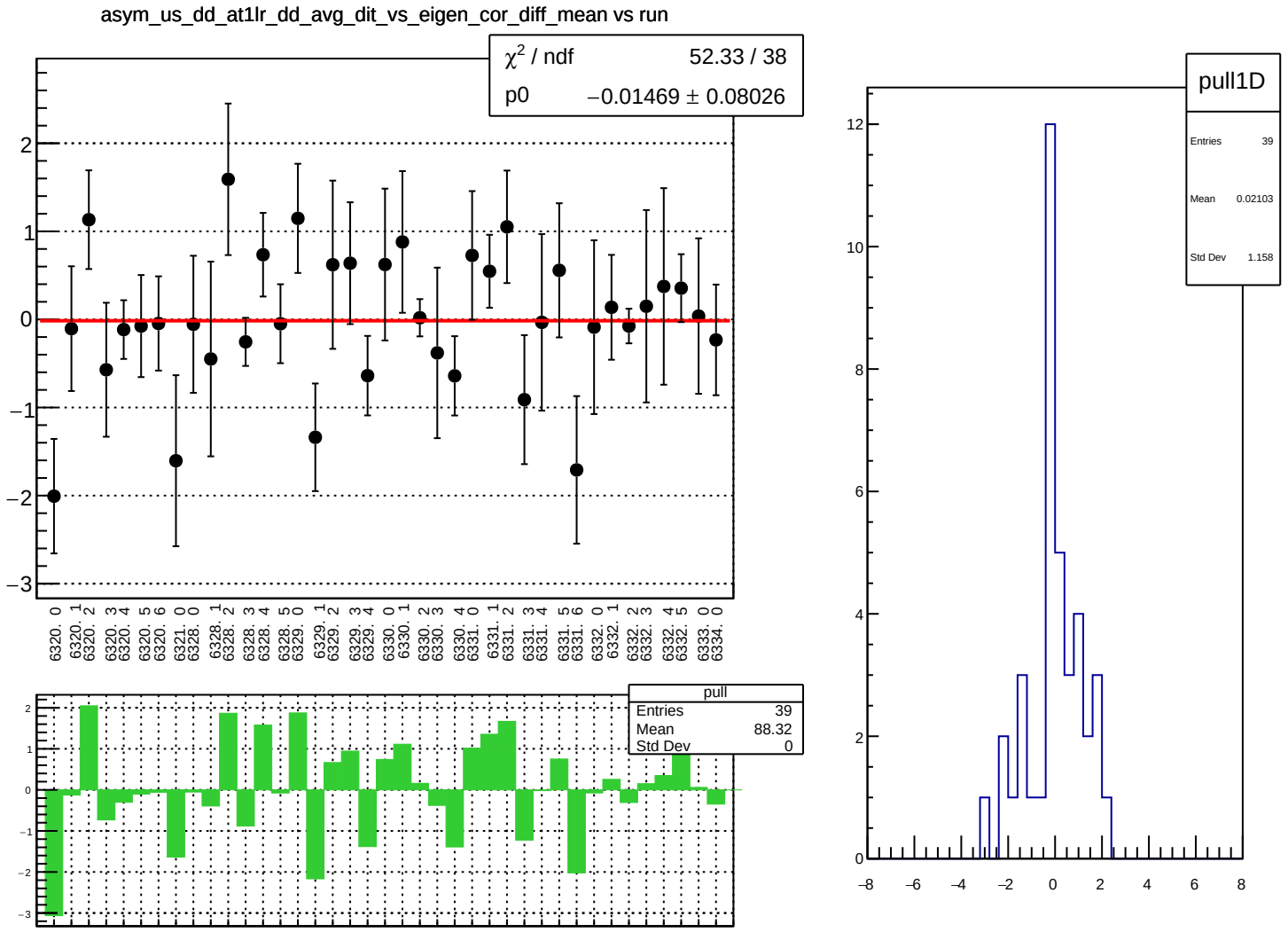

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 61.11 / 38
p0 2198 ± 2.525
2280
2260
2240
2220
2200
2180
2160
2140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

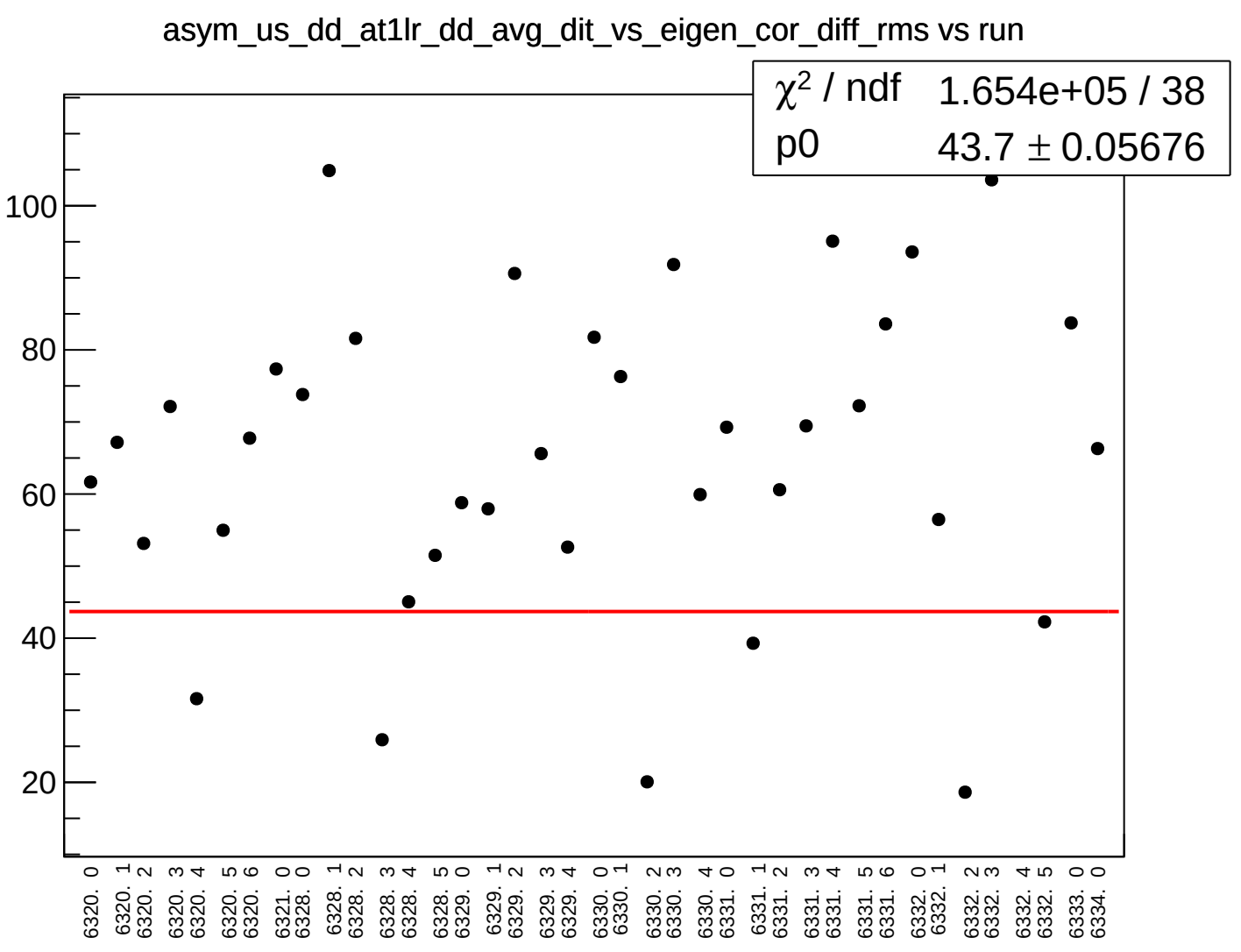

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 −2.278e−14 ± 3.06e−14
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 29.67
Std Dev 6.899
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1626
Std Dev 0.9495
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

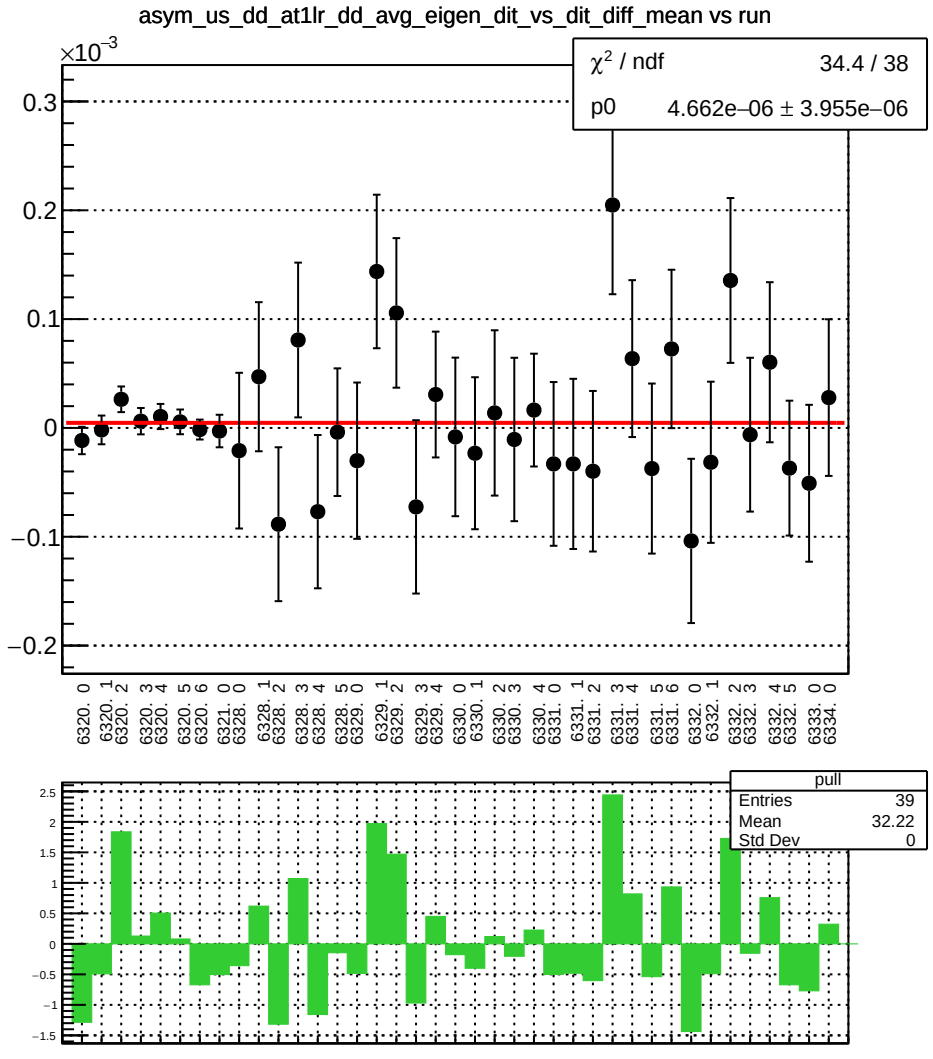

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.559e+05 / 38
p0 9.732e−12 ± 2.164e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

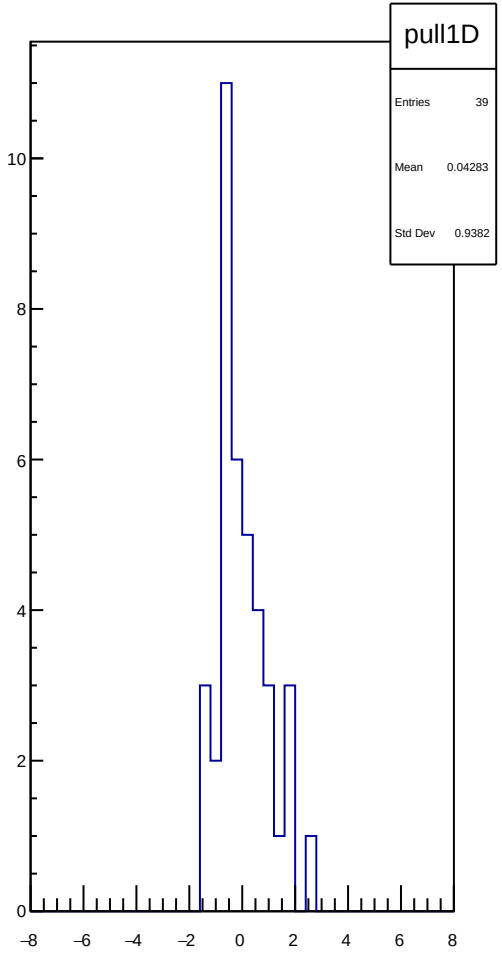

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.33 / 38
p0 −0.01469 ± 0.08026
pull
Entries 39
Mean 88.32
Std Dev 0
pull1D
Entries 39
Mean 0.02103
Std Dev 1.158

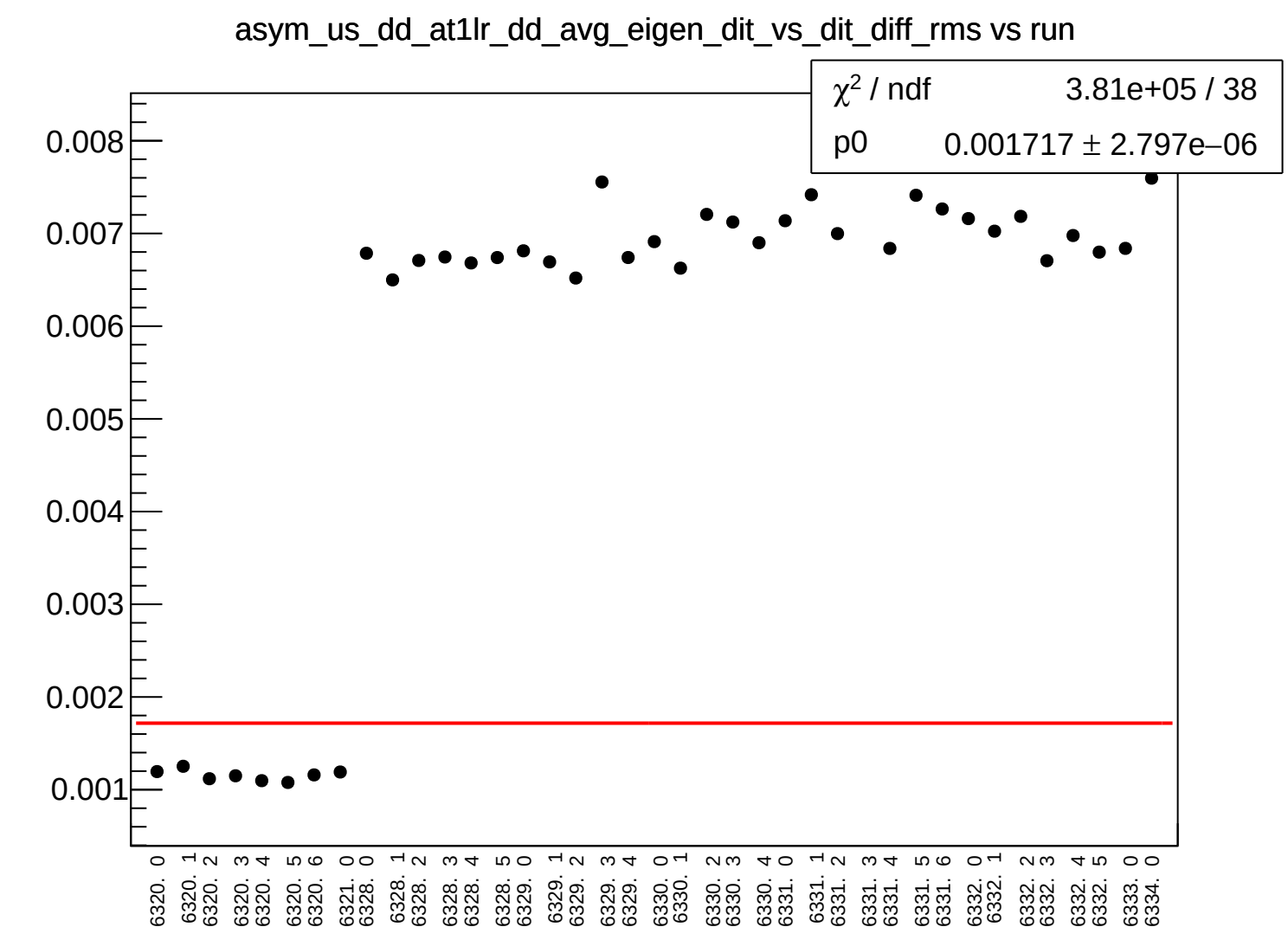

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 38
p0 43.7 ± 0.05676
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

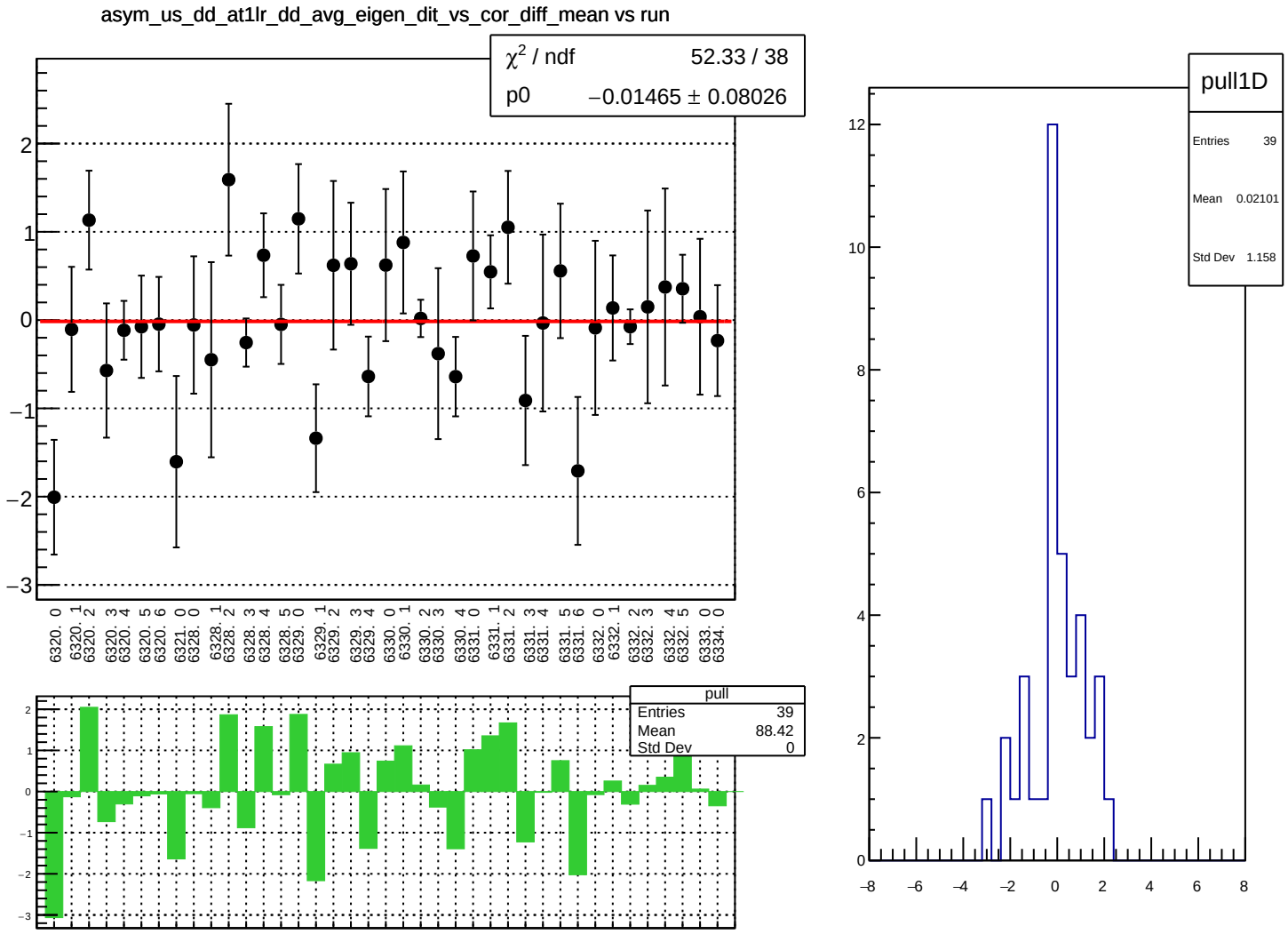

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.33 / 38
p0 −0.01469 ± 0.08026
pull
Entries 39
Mean 88.32
Std Dev 0
pull1D
Entries 39
Mean 0.02103
Std Dev 1.158

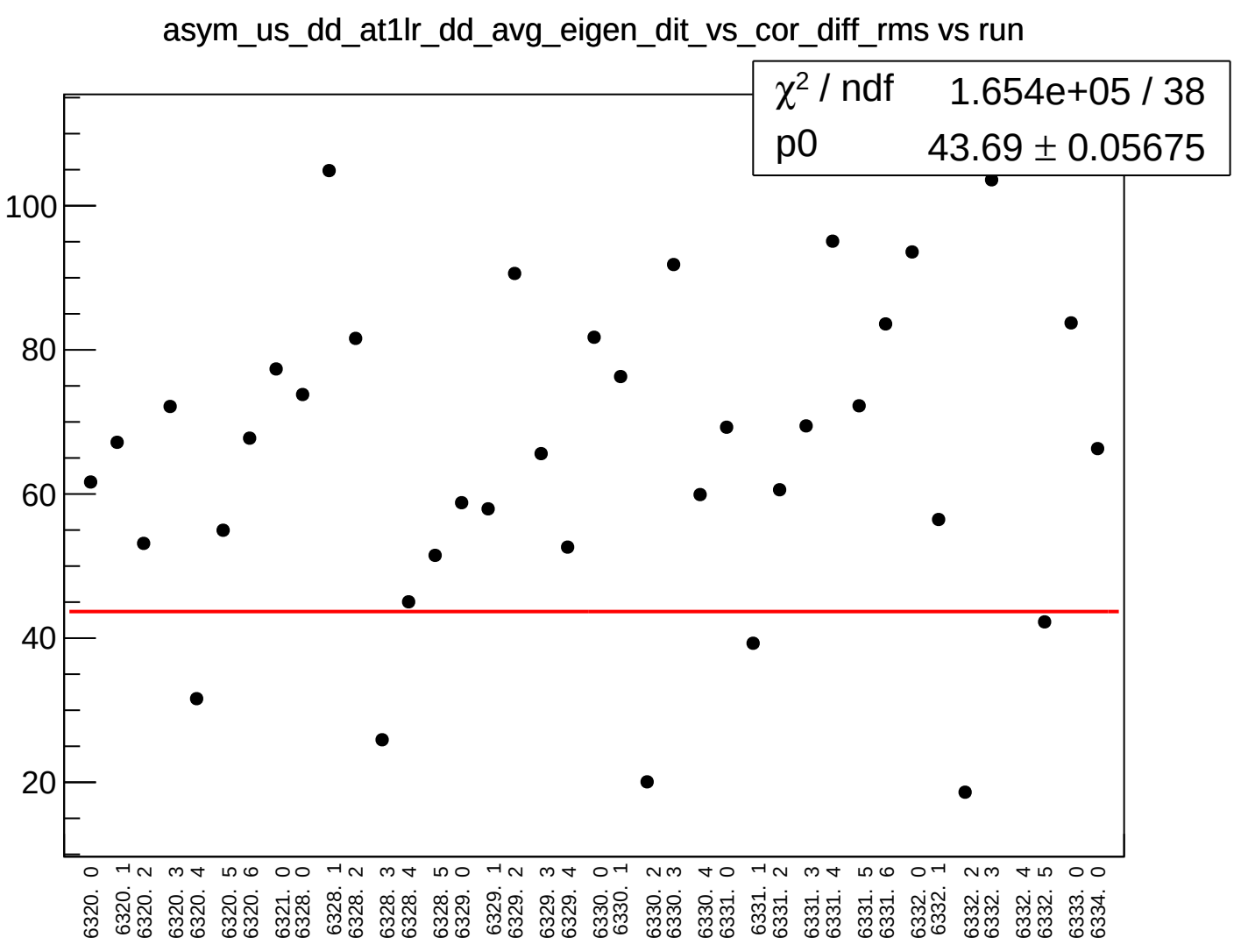

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 38
p0 43.7 ± 0.05676
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

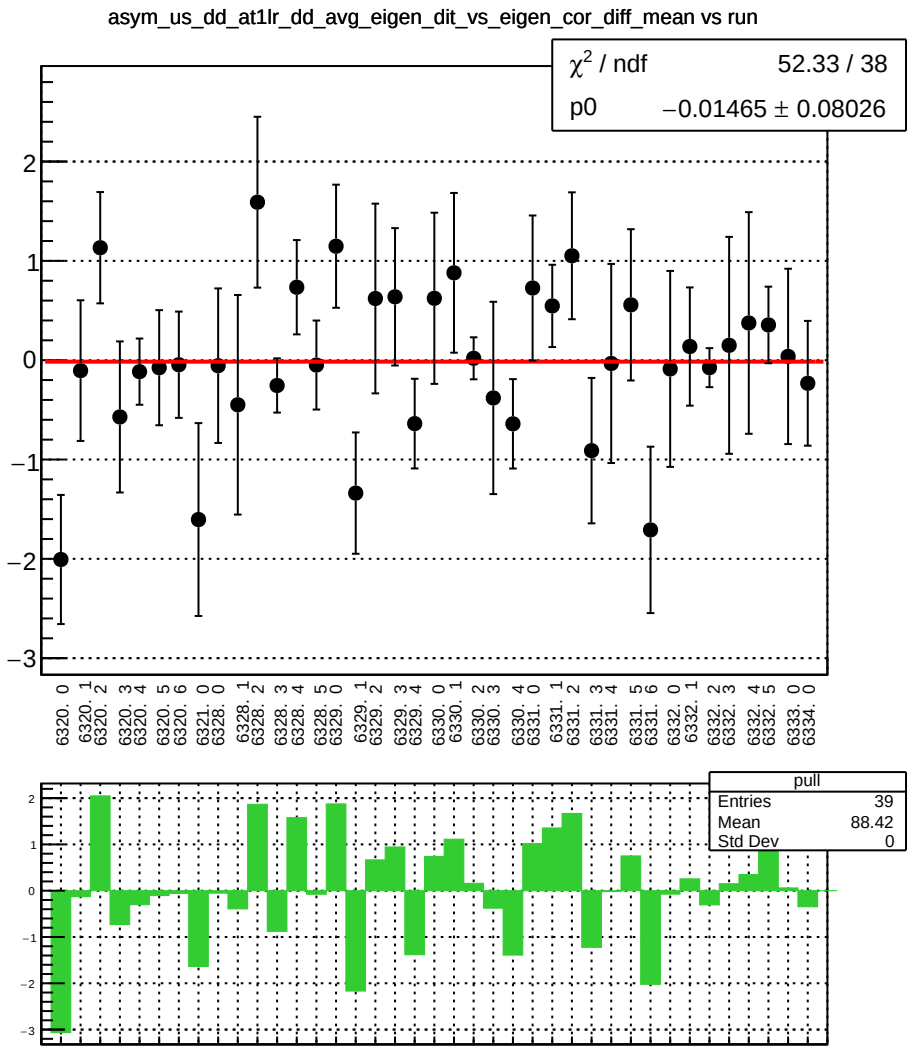

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.4 / 38
p0 4.662e−06 ± 3.955e−06
0.3
0.2
0.1
0
−0.1
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 32.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

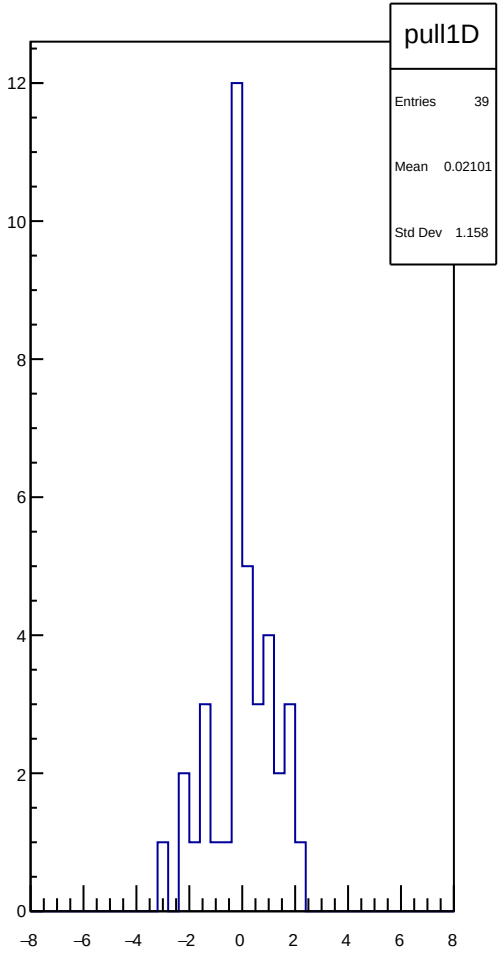

pull1D
Entries 39
Mean 0.04283
Std Dev 0.9382
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

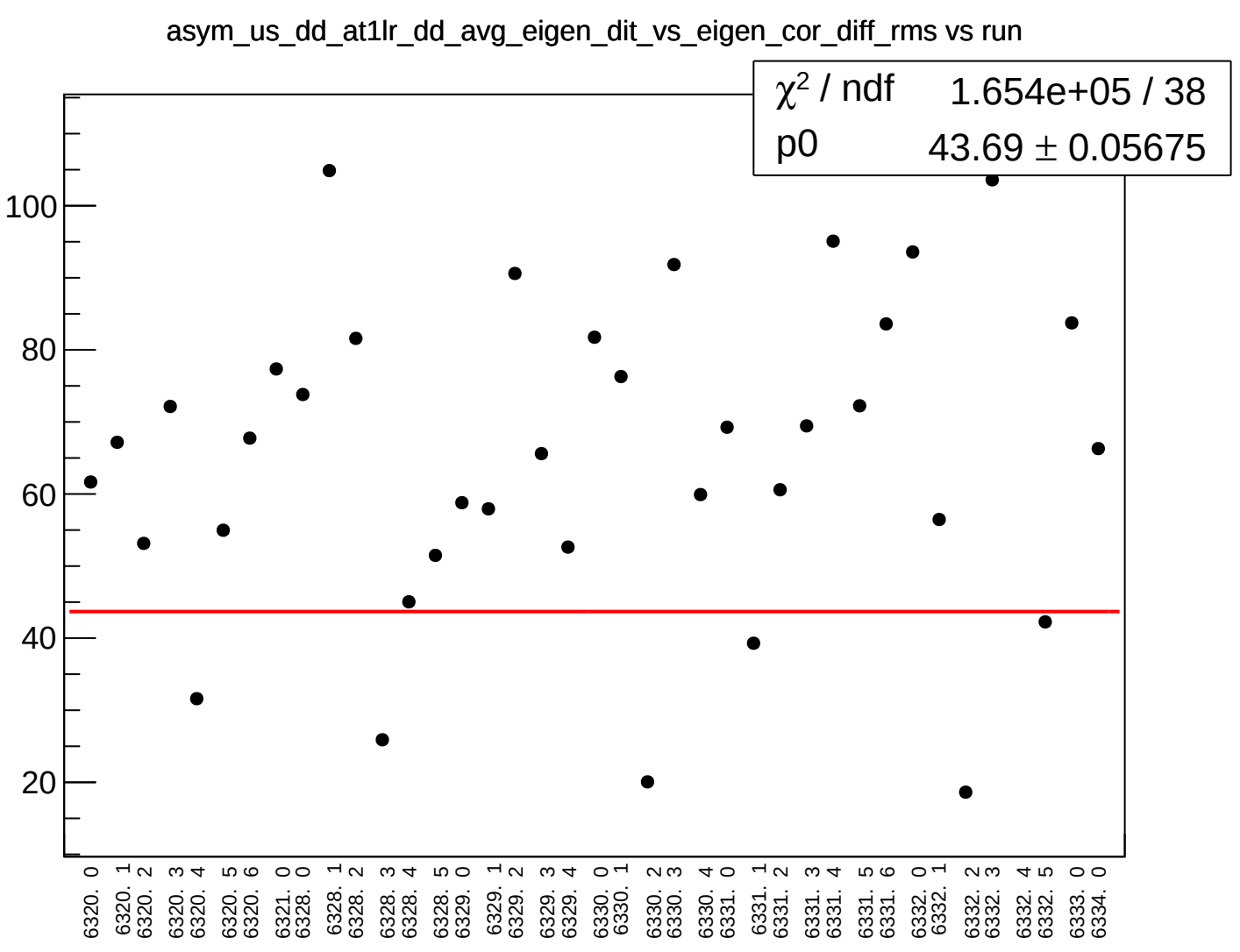

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.81e+05 / 38
p0 0.001717 ± 2.797e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

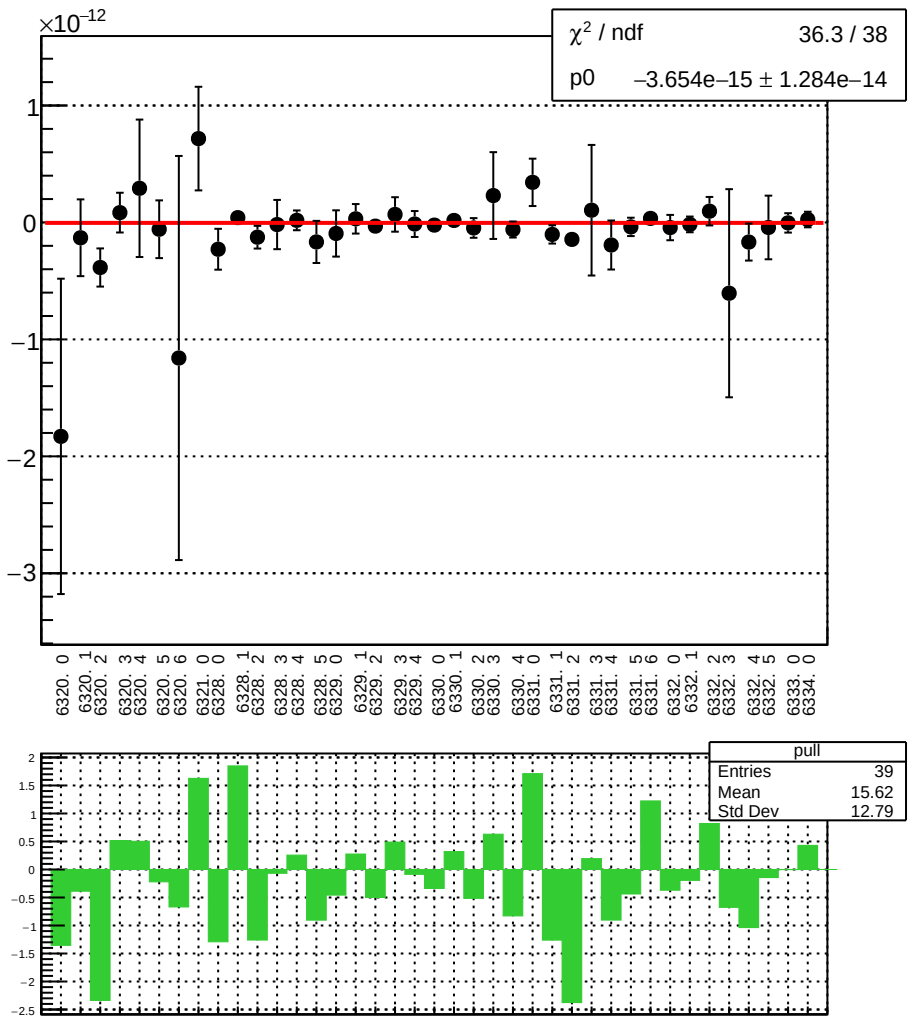

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.33 / 38
p0 −0.01465 ± 0.08026
pull
Entries 39
Mean 88.42
Std Dev 0
pull1D
Entries 39
Mean 0.02101
Std Dev 1.158

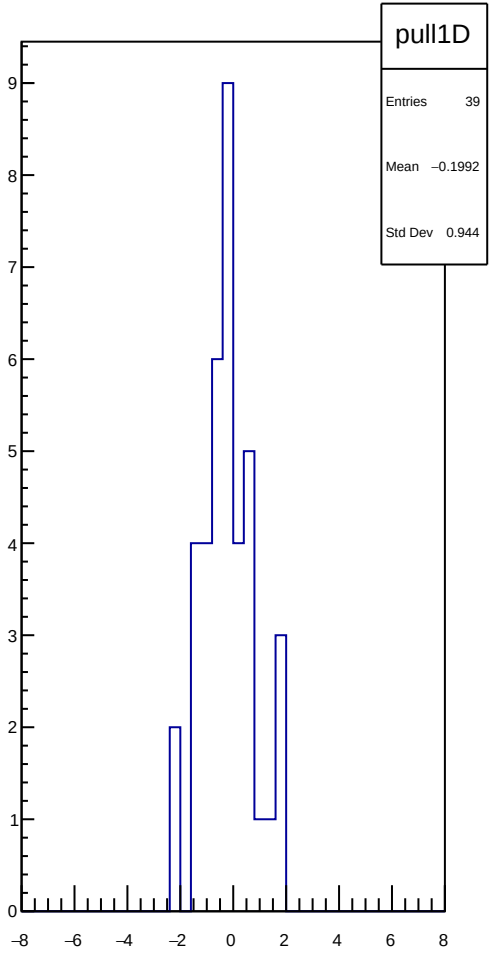

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 38
p0 43.69 ± 0.05675
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

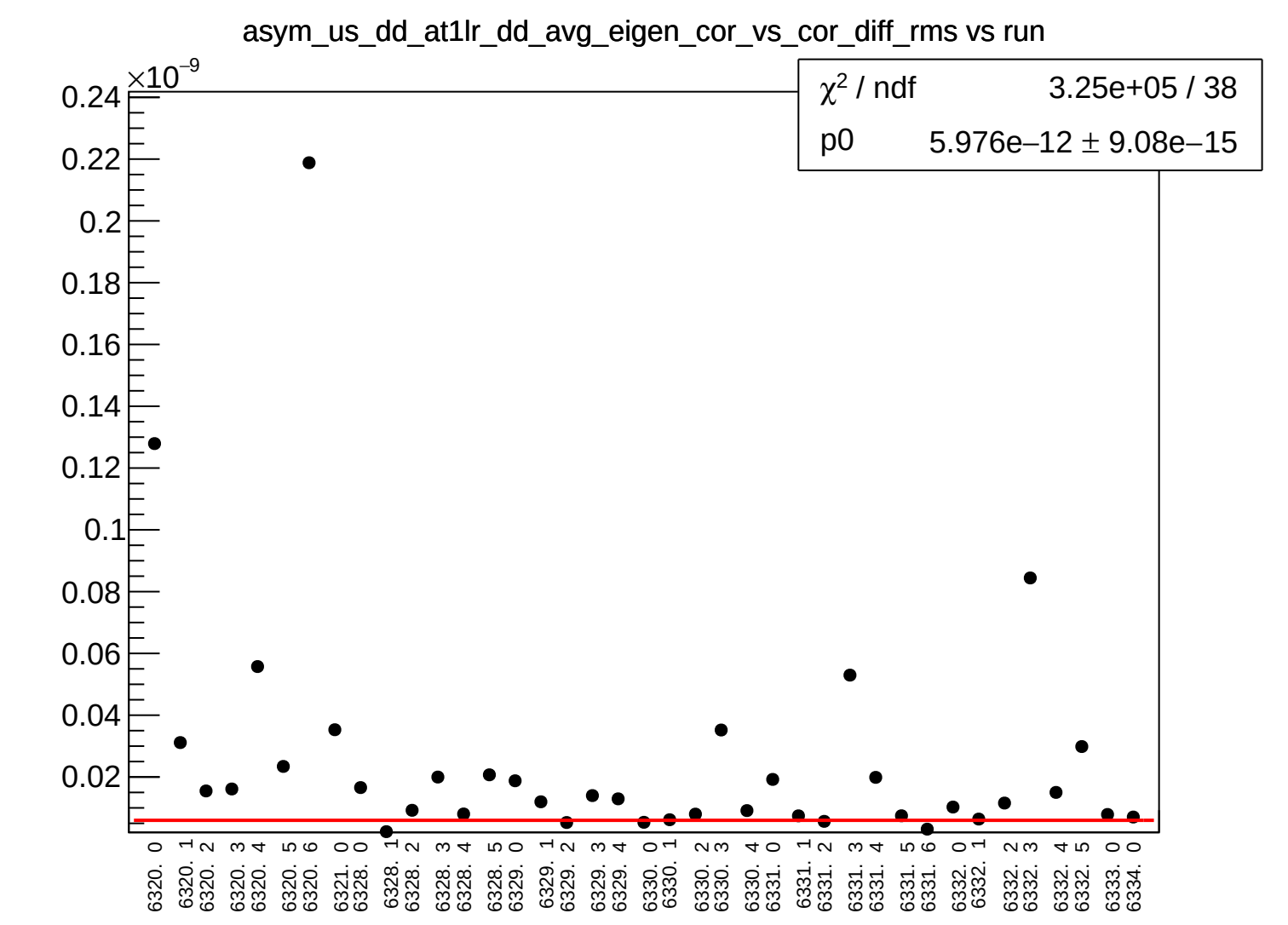

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.33 / 38
p0 −0.01465 ± 0.08026
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 88.42
Std Dev 0

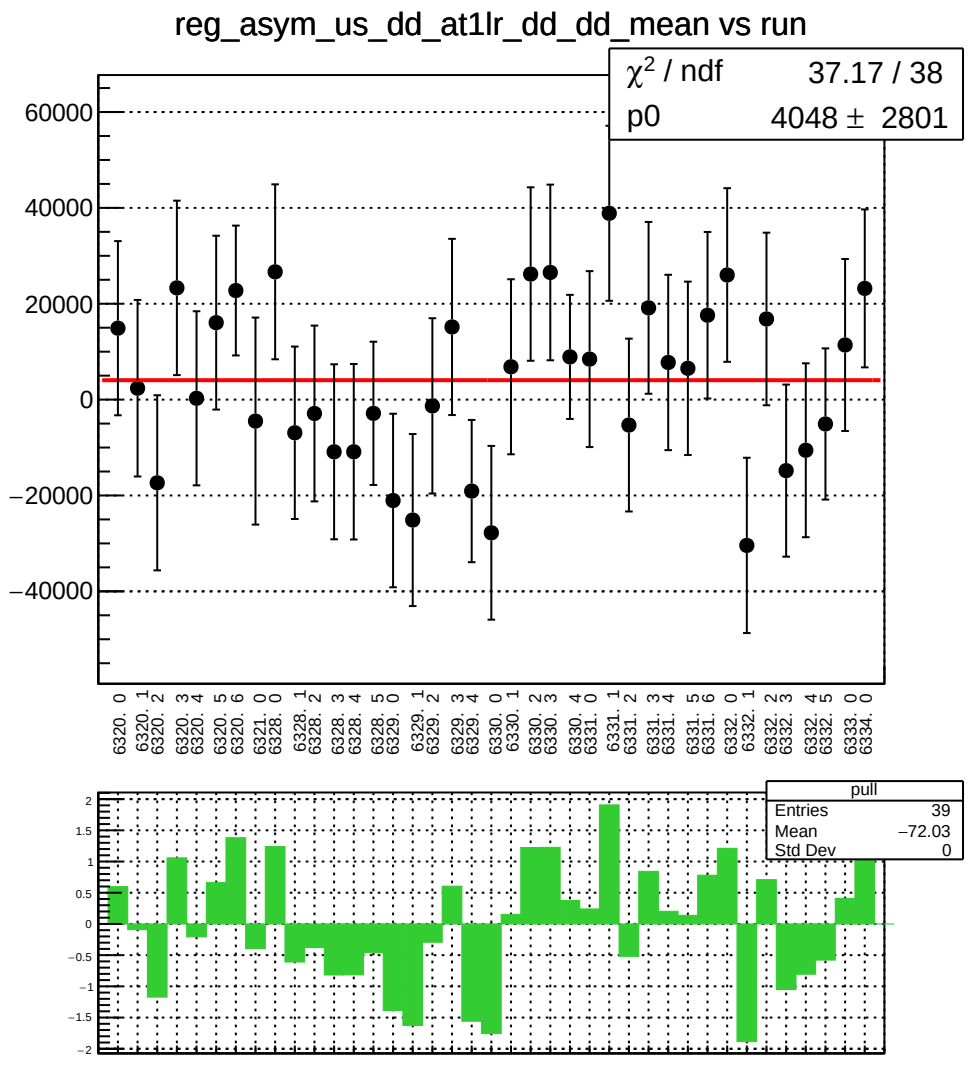

pull1D
Entries 39
Mean 0.02101
Std Dev 1.158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

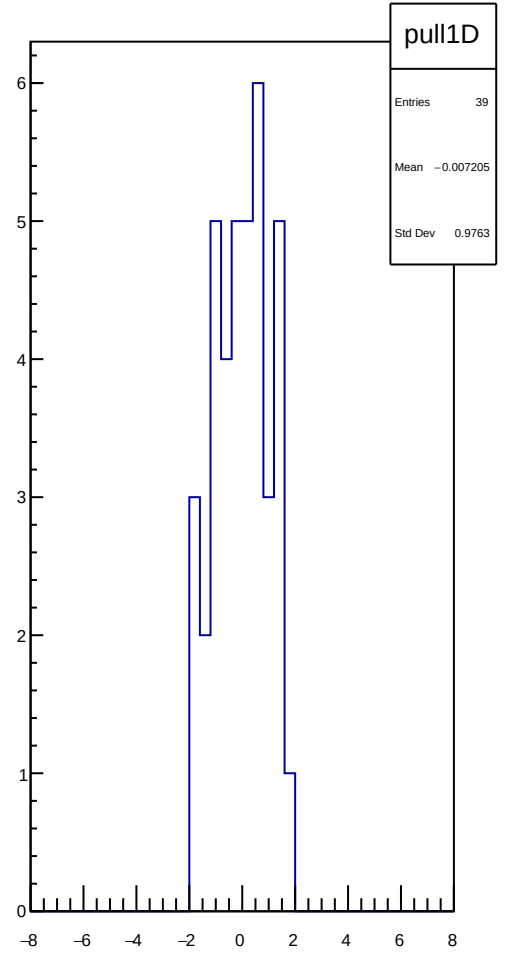

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+05 / 38
p0 43.69 ± 0.05675
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

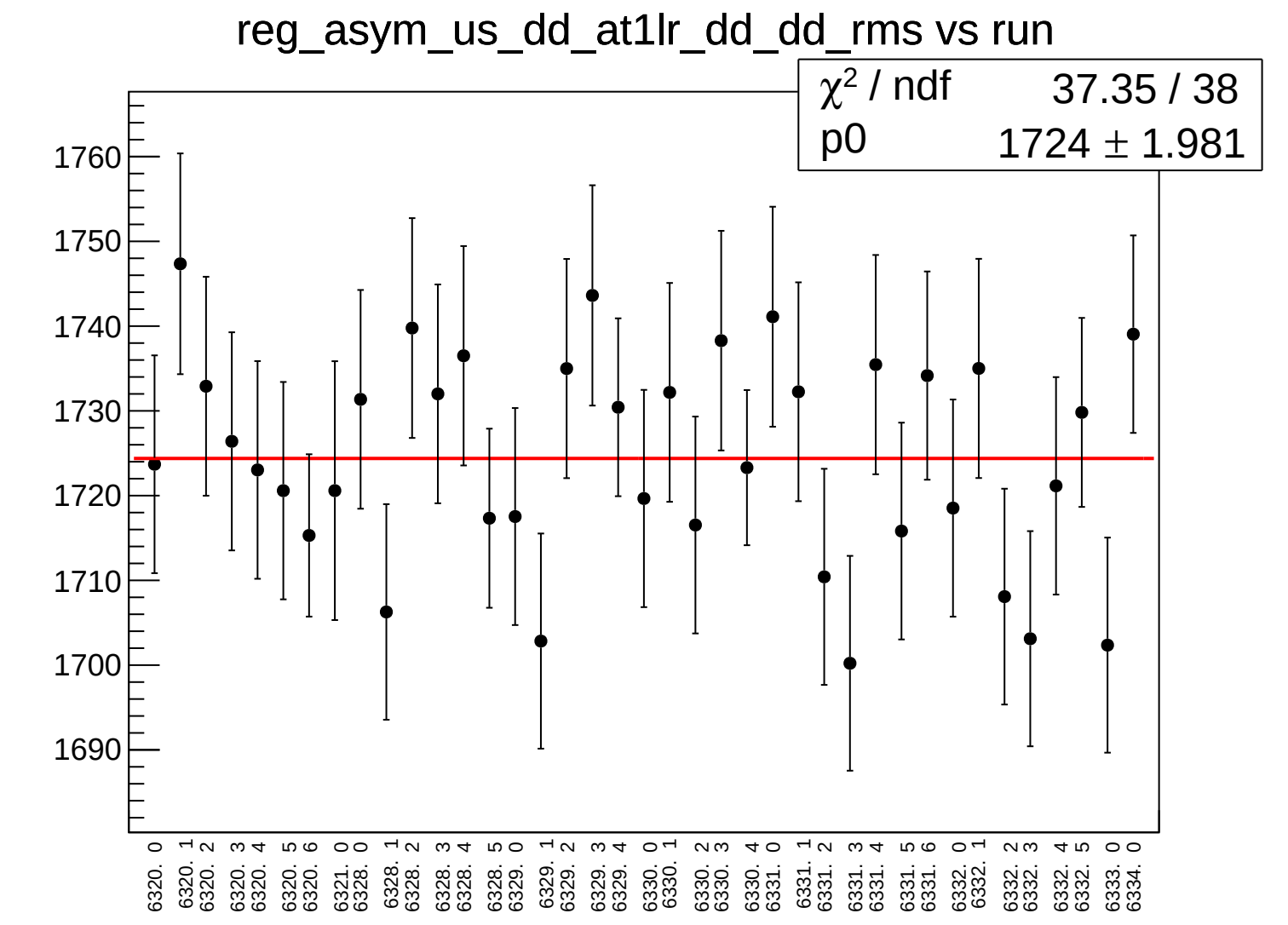

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.3 / 38
p0 −3.654e−15 ± 1.284e−14
pull
Entries 39
Mean 15.62
Std Dev 12.79

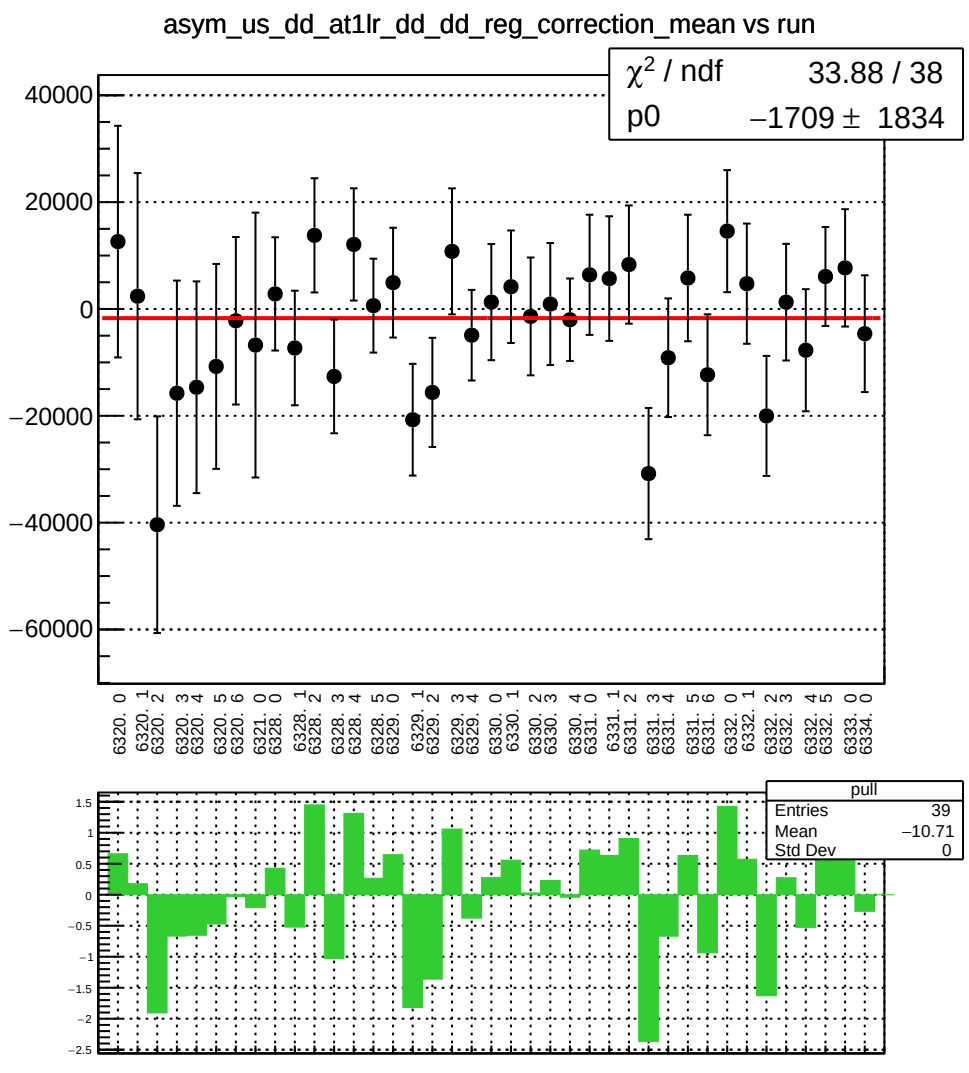

pull1D
Entries 39
Mean −0.1992
Std Dev 0.944

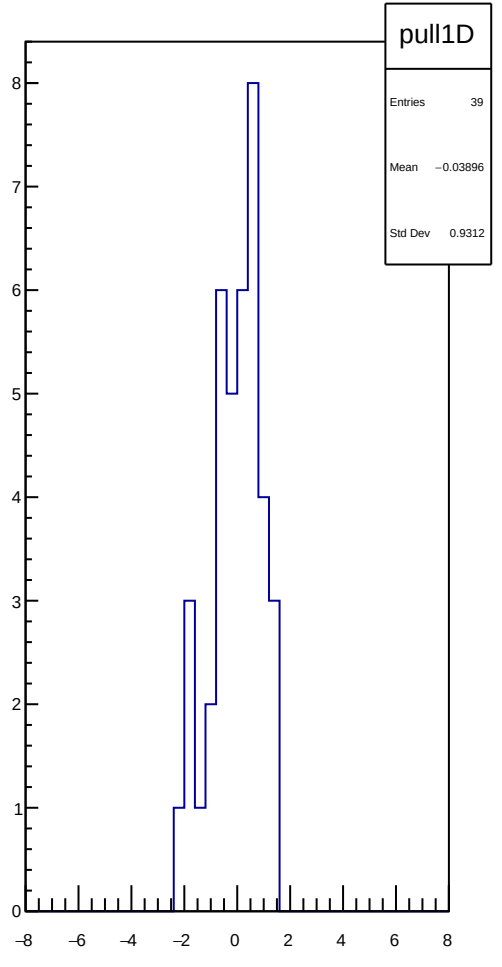

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.25e+05 / 38
p0 5.976e−12 ± 9.08e−15
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

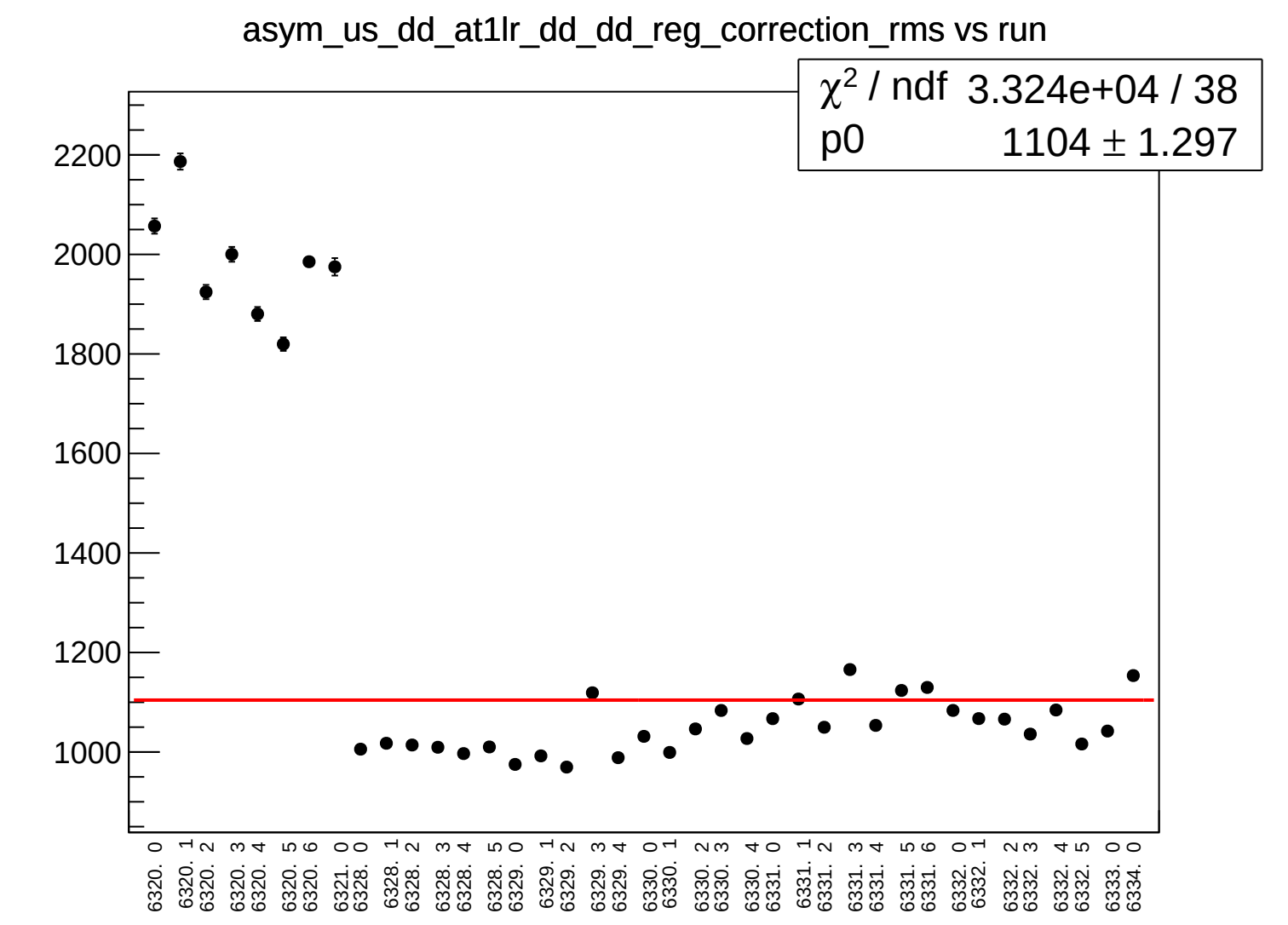

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.17 / 38
p0 4048 ± 2801
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −72.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

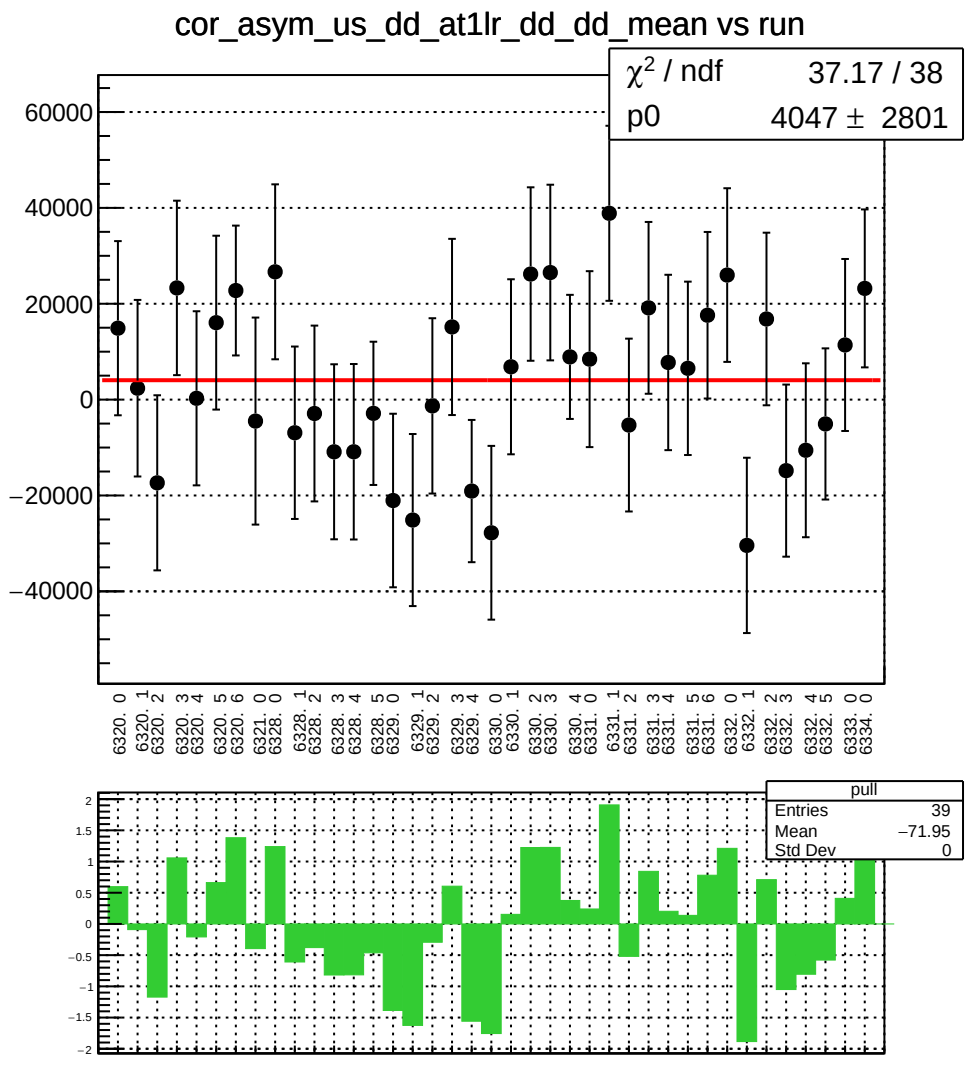

pull1D
Entries 39
Mean −0.007205
Std Dev 0.9763
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

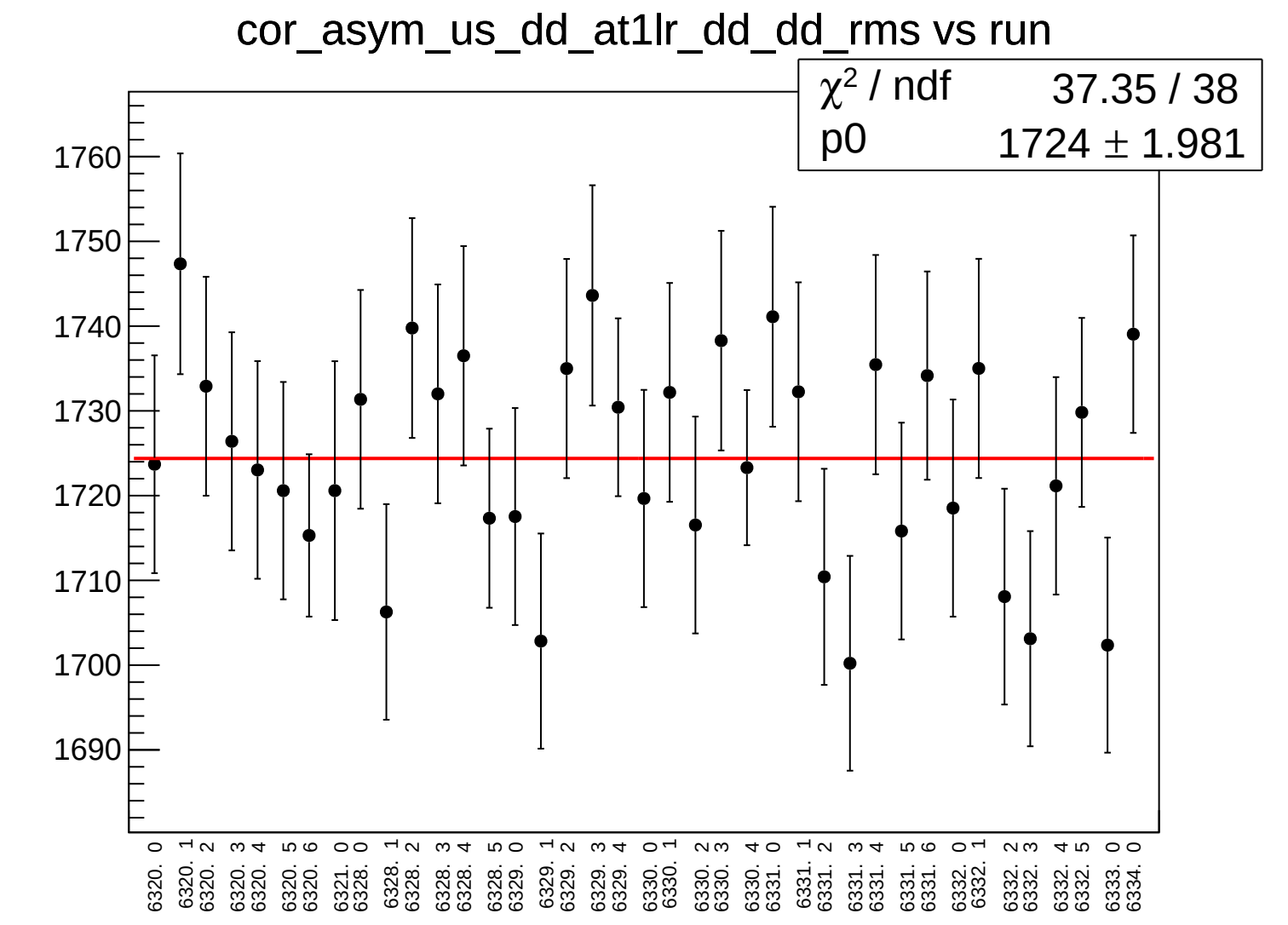

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.35 / 38
p0 1724 ± 1.981
1760
1750
1740
1730
1720
1710
1700
1690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

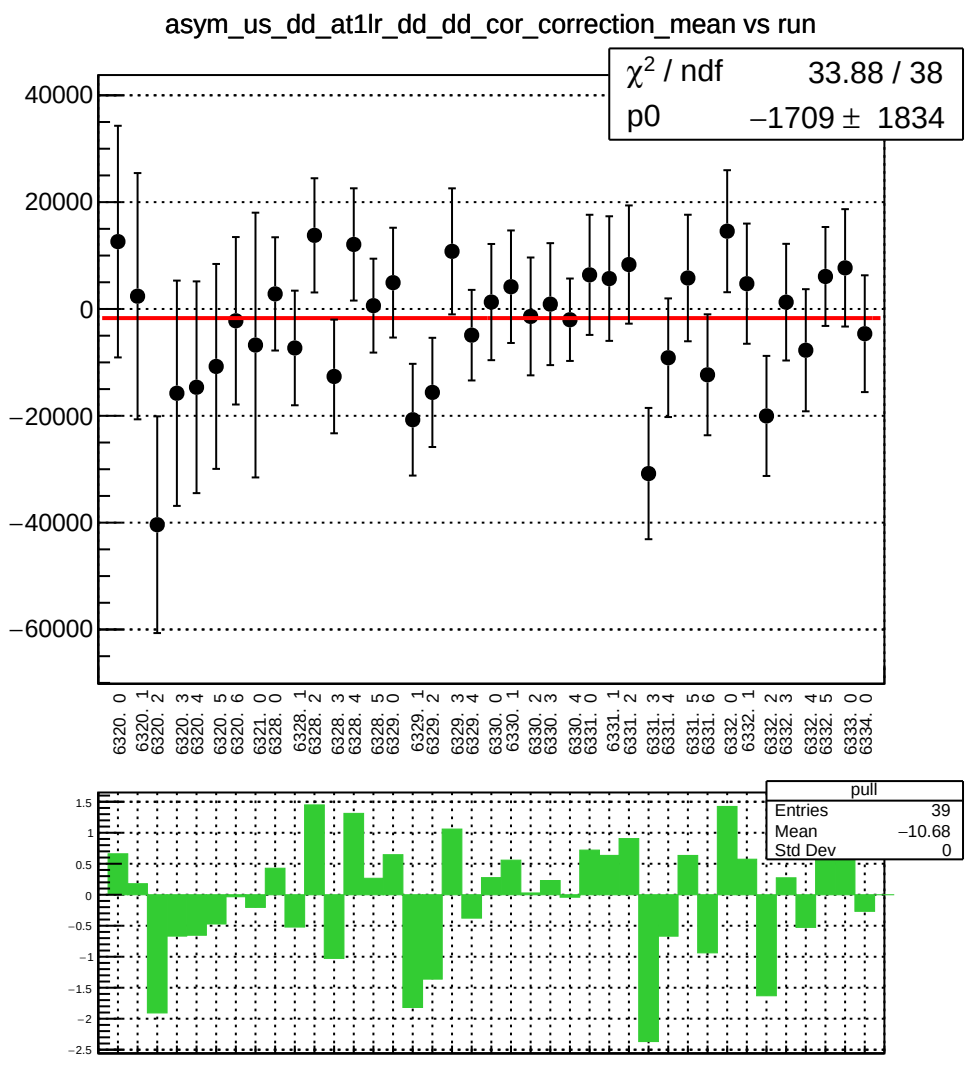

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 33.88 / 38
p0 −1709 ± 1834
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

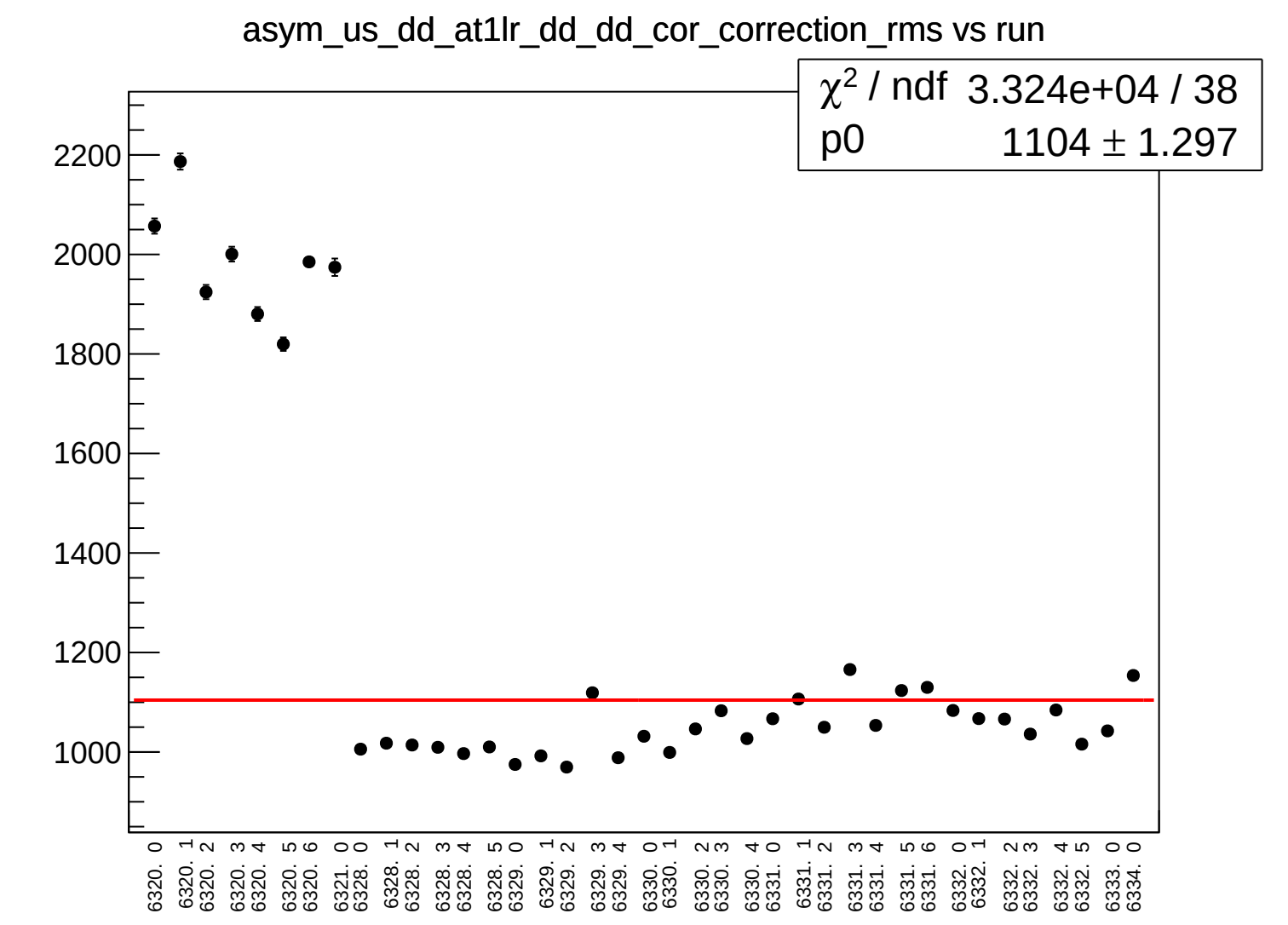

pull1D
Entries 39
Mean −0.03896
Std Dev 0.9312
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

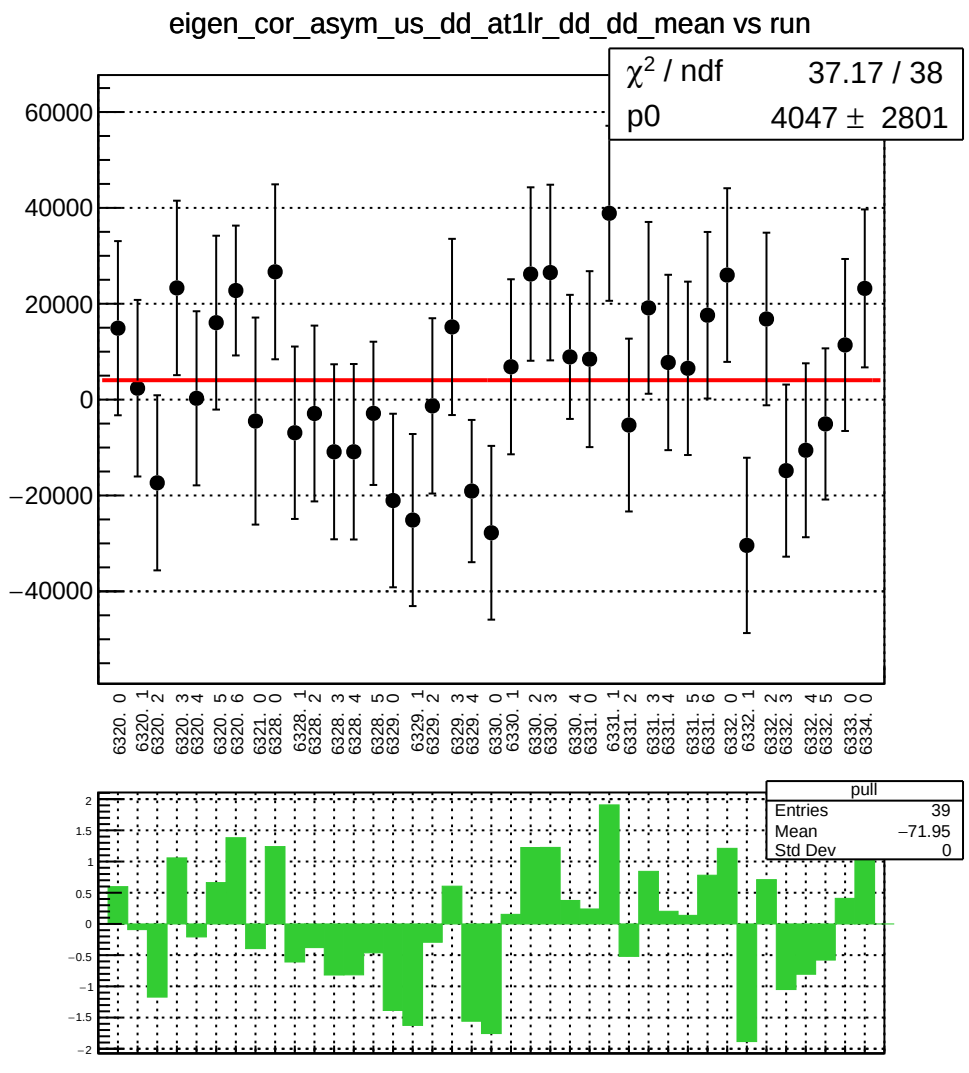

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.324e+04 / 38
p0 1104 ± 1.297
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

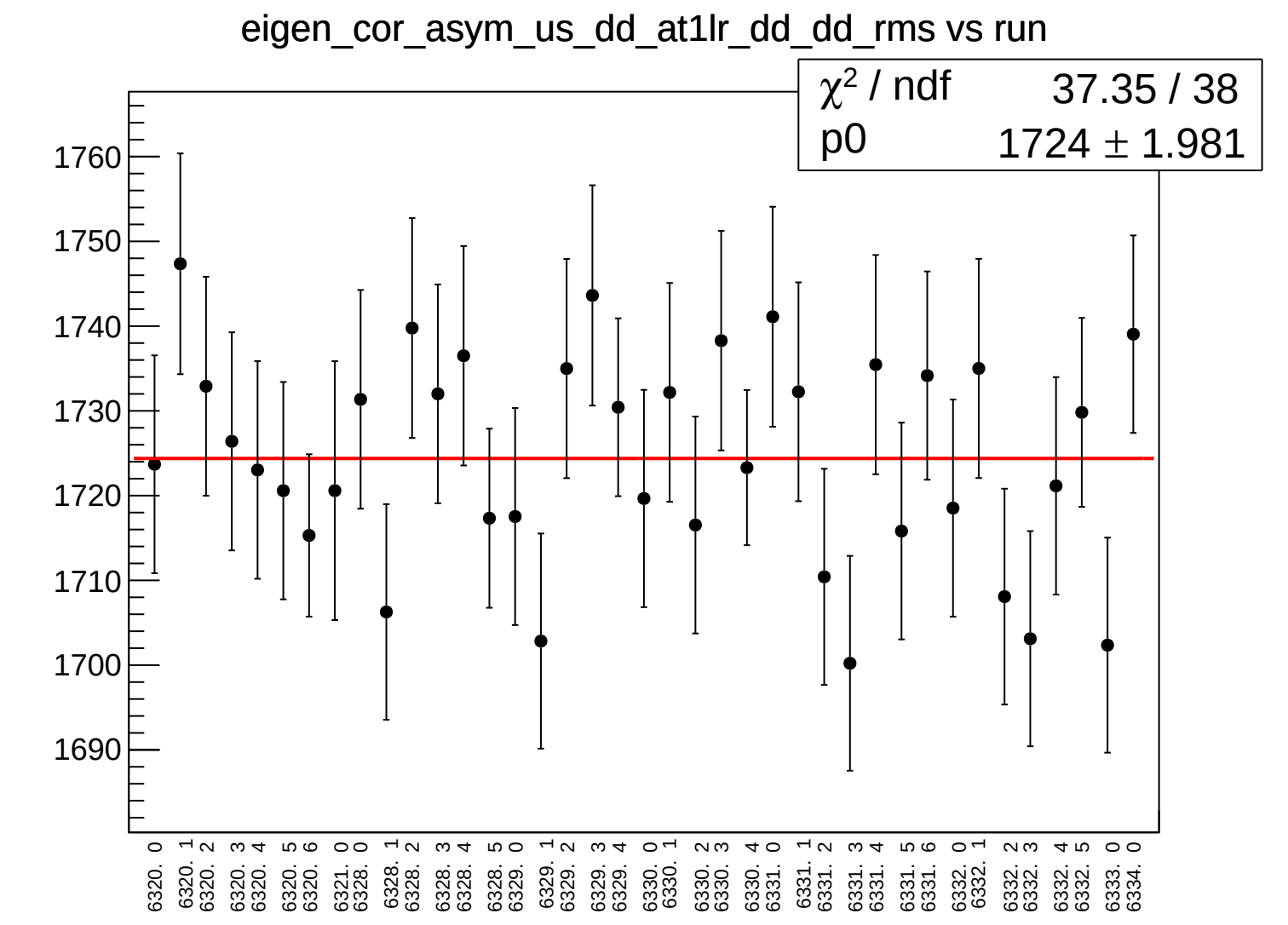

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.17 / 38
p0 4047 ± 2801
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −71.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.007208
Std Dev 0.9762
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

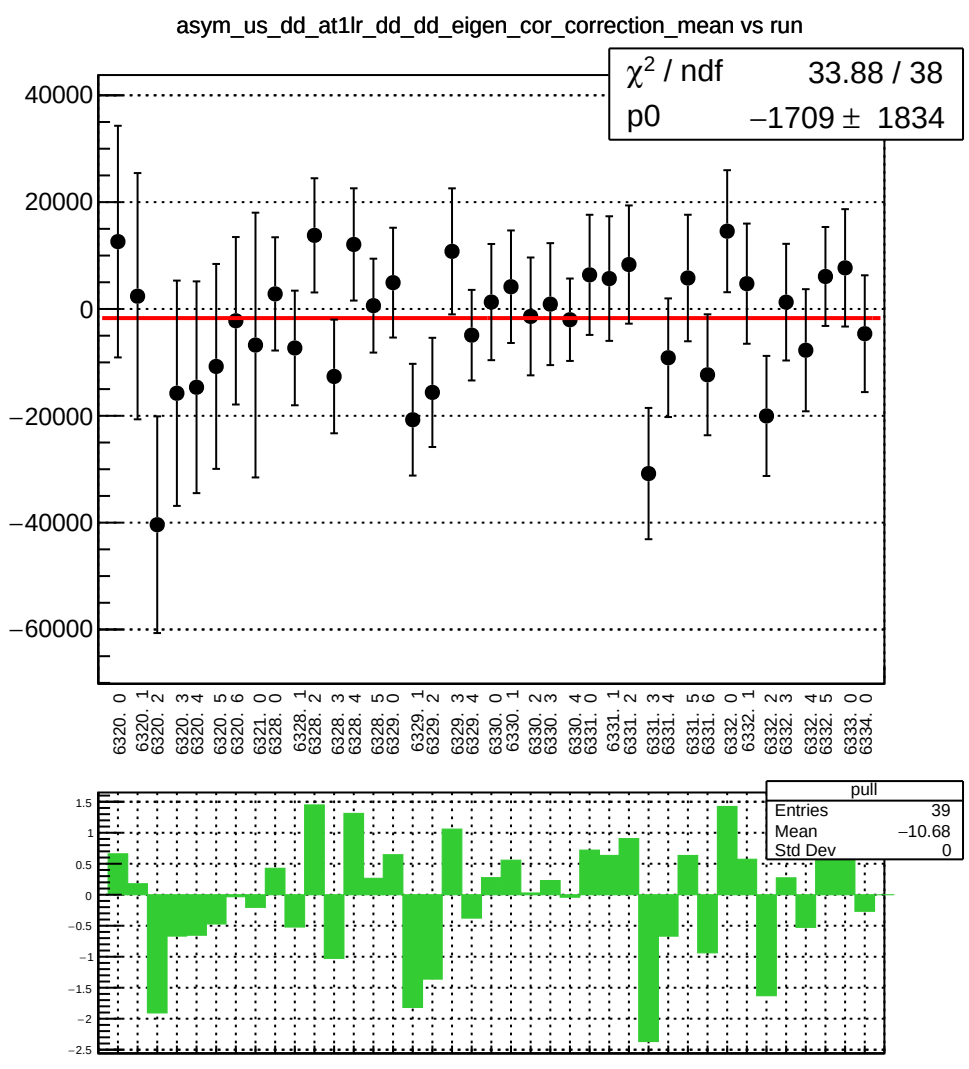

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.35 / 38
p0 1724 ± 1.981
1760
1750
1740
1730
1720
1710
1700
1690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

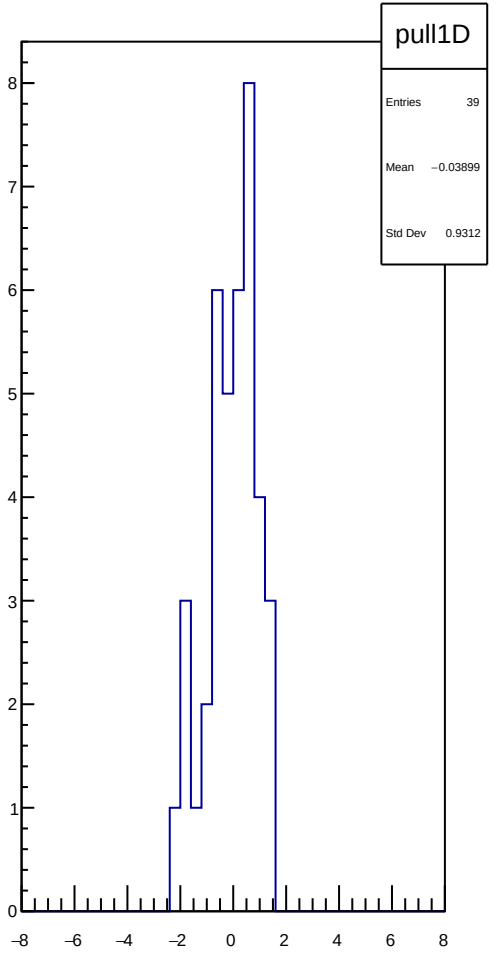

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 33.88 / 38
p0 −1709 ± 1834
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03899
Std Dev 0.9312
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

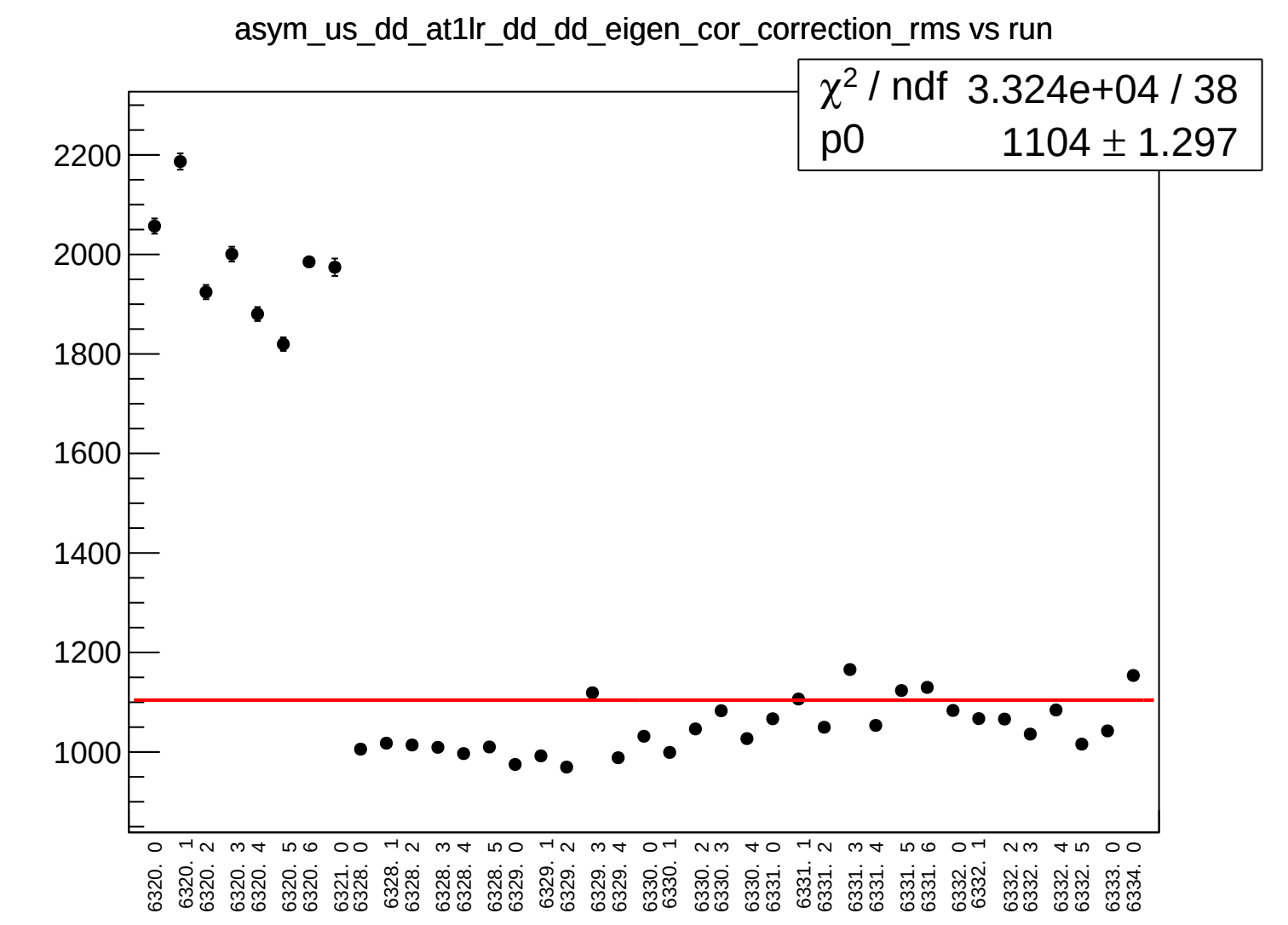

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.324e+04 / 38
p0 1104 ± 1.297
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

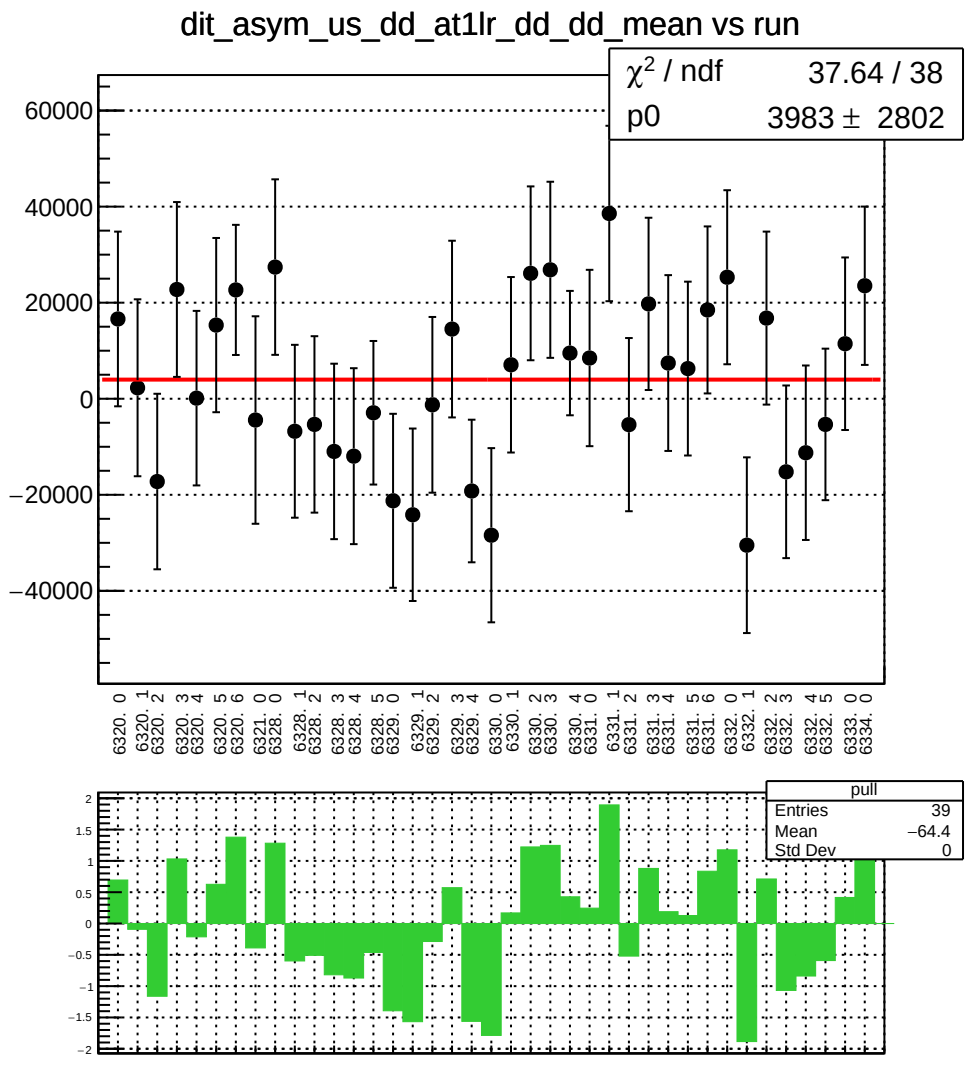

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.17 / 38
p0 4047 ± 2801
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −71.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.007208
Std Dev 0.9762
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

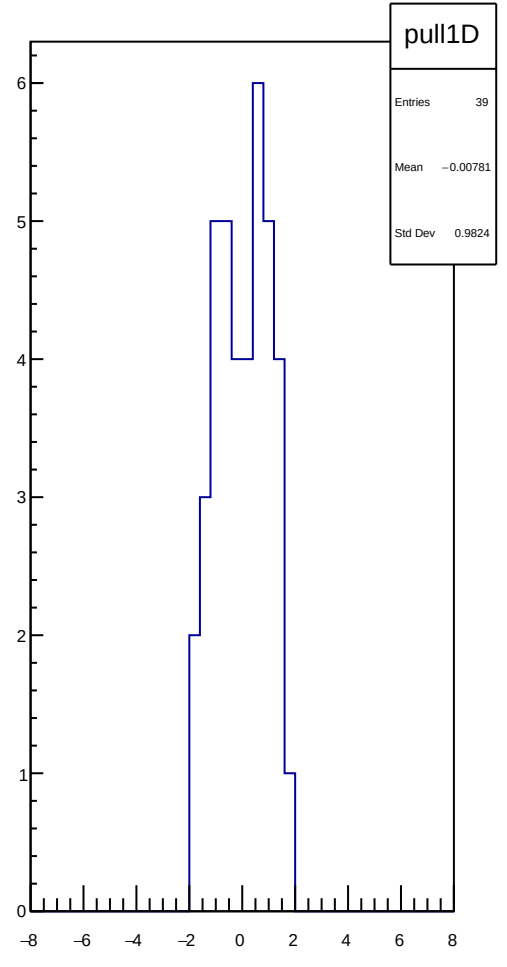

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.35 / 38
p0 1724 ± 1.981
1760
1750
1740
1730
1720
1710
1700
1690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

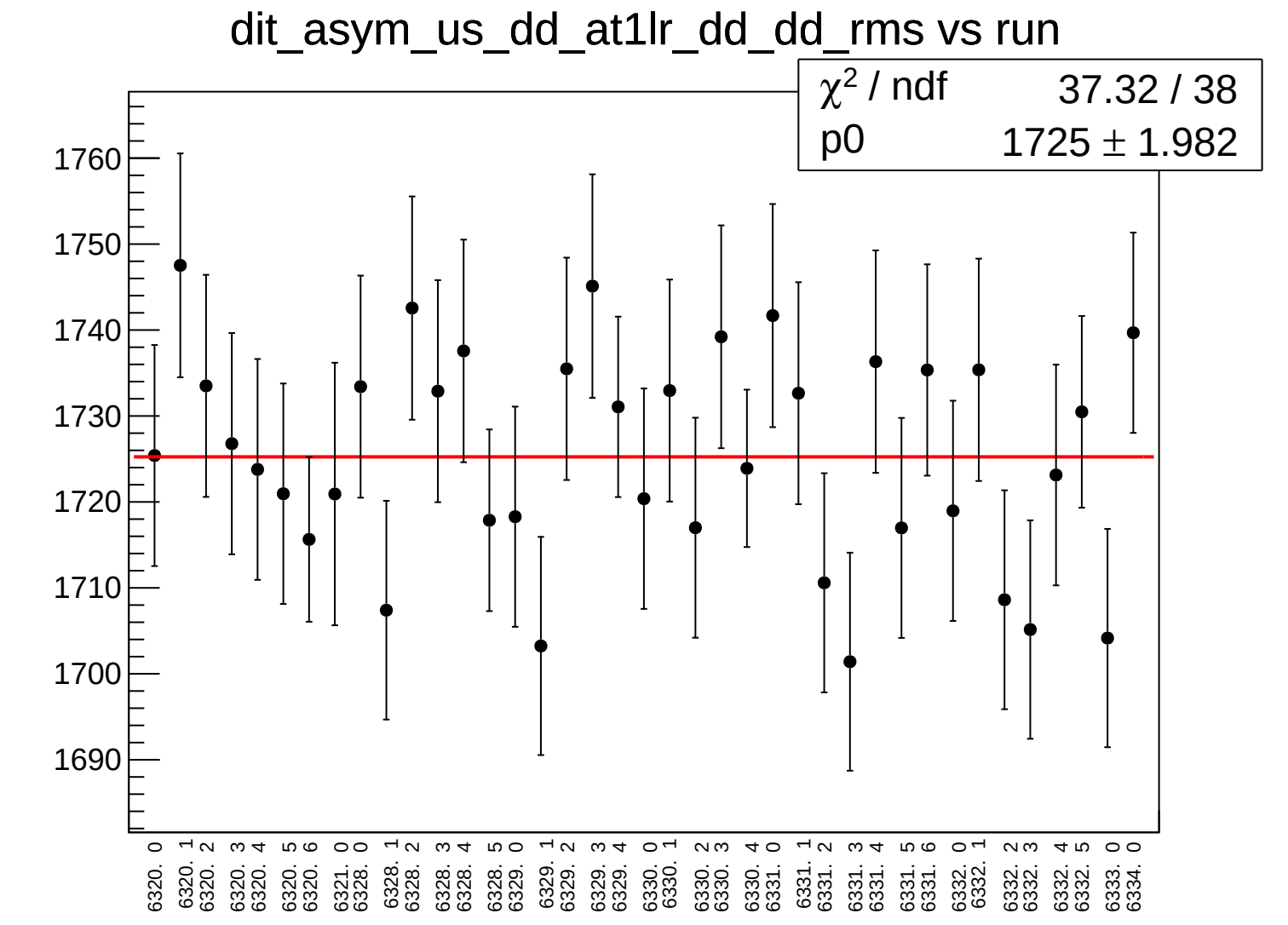

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.88 / 38
p0 −1709 ± 1834
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

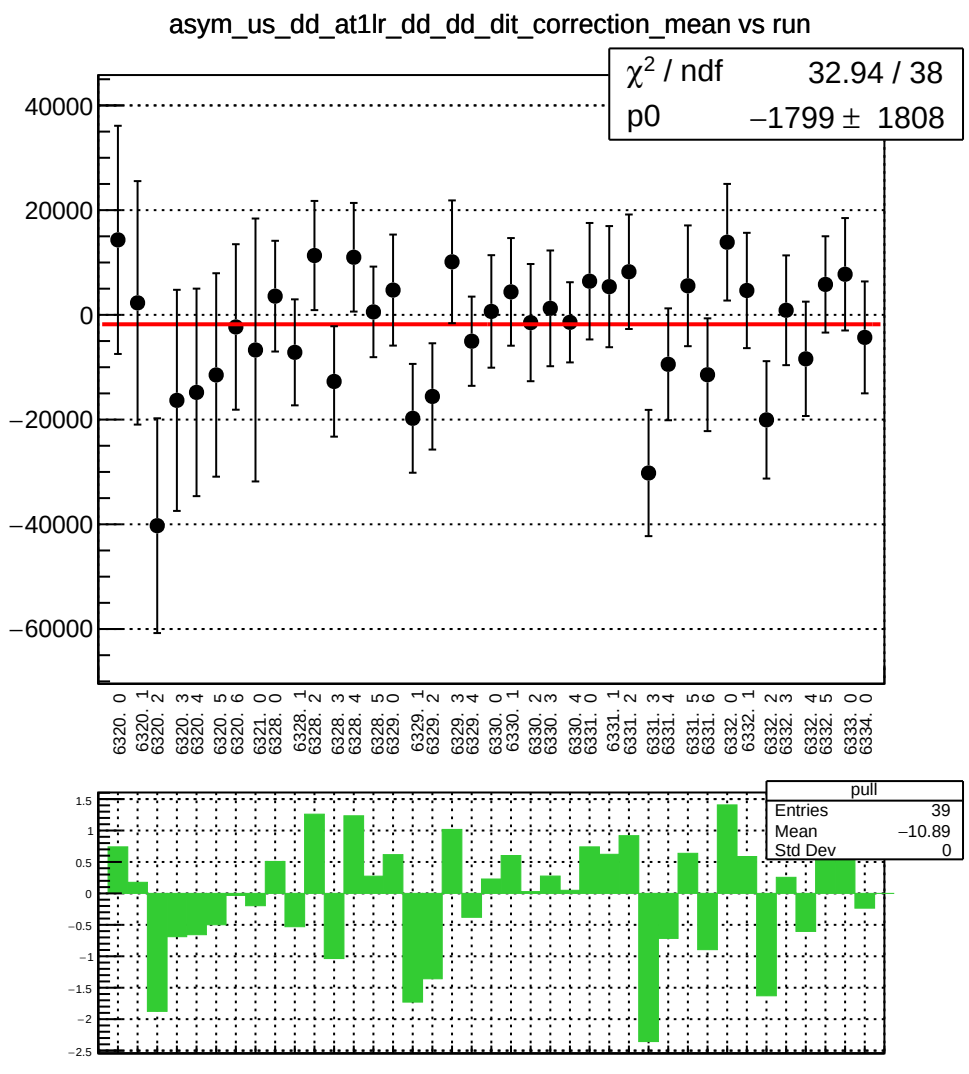

pull1D
Entries 39
Mean −0.03899
Std Dev 0.9312
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

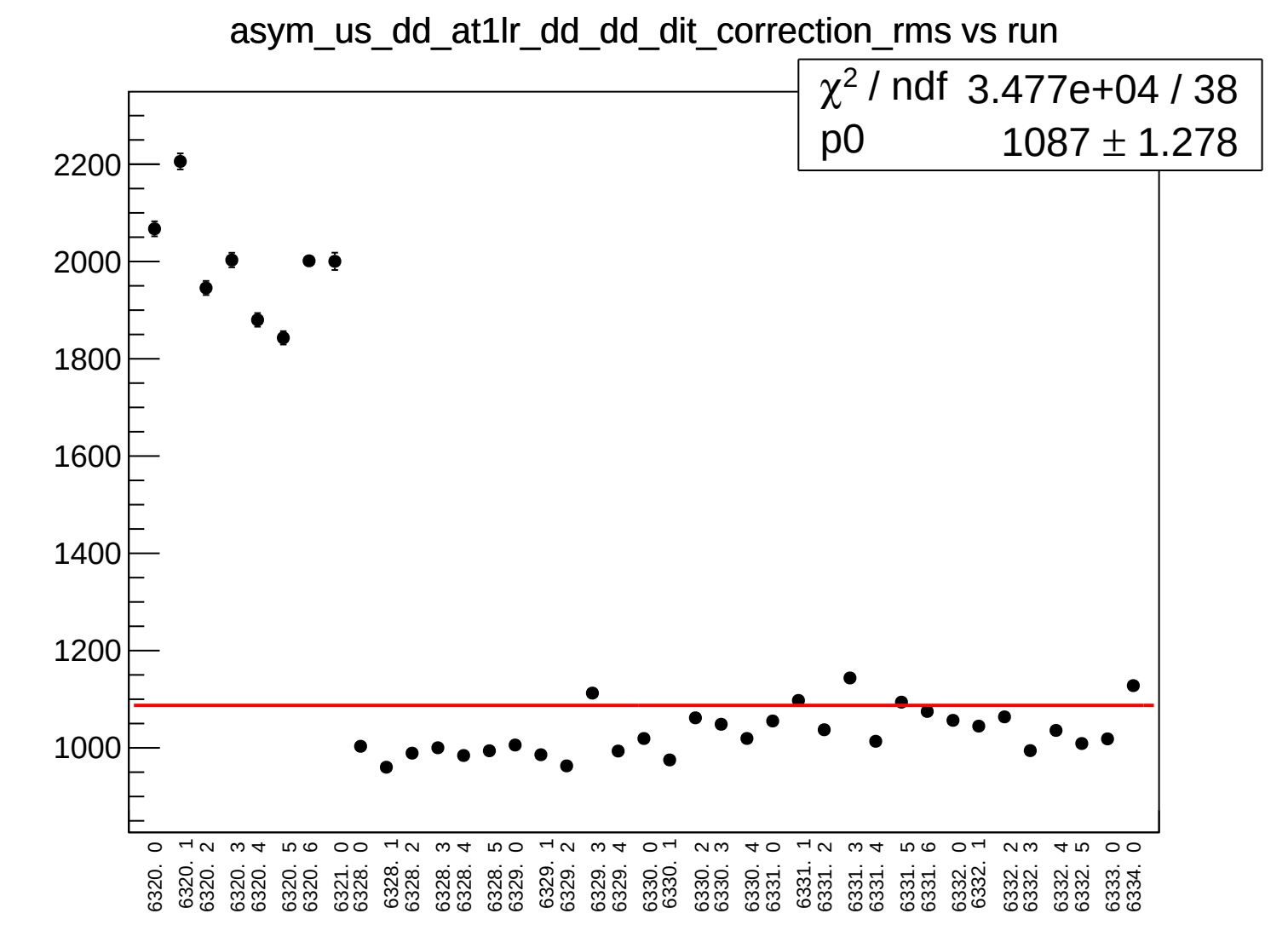

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.324e+04 / 38
p0 1104 ± 1.297
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

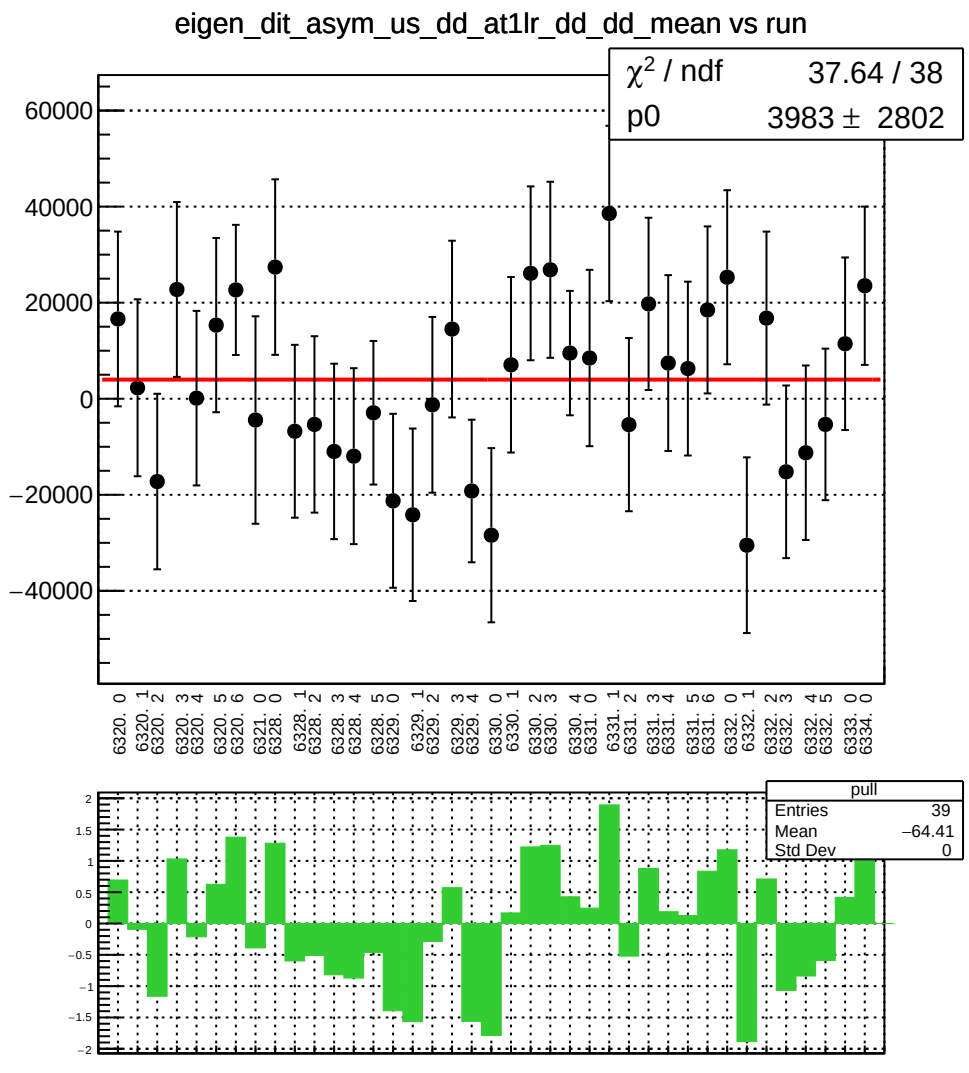

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.64 / 38
p0 3983 ± 2802
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −64.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

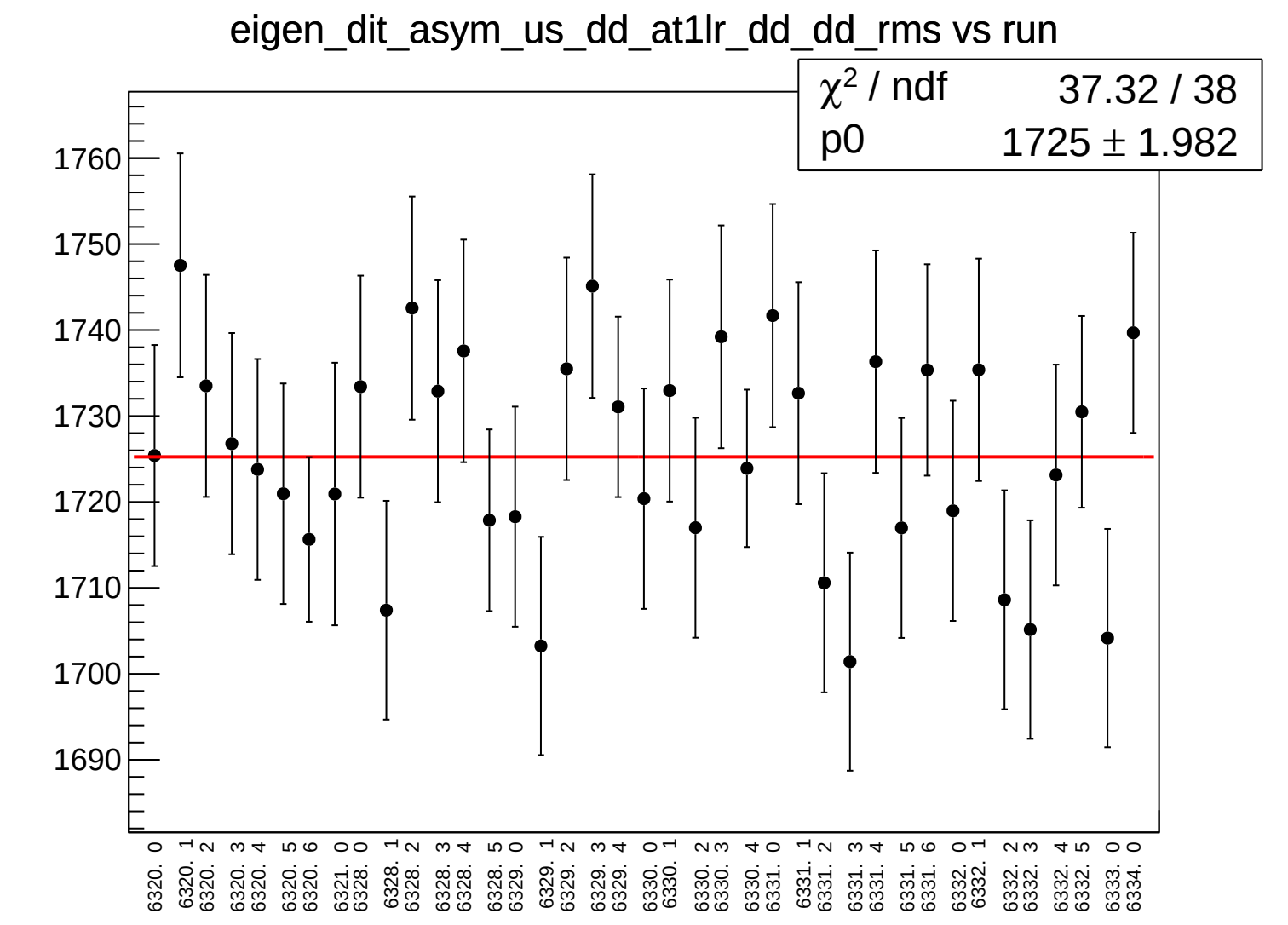

pull1D
Entries 39
Mean −0.00781
Std Dev 0.9824
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

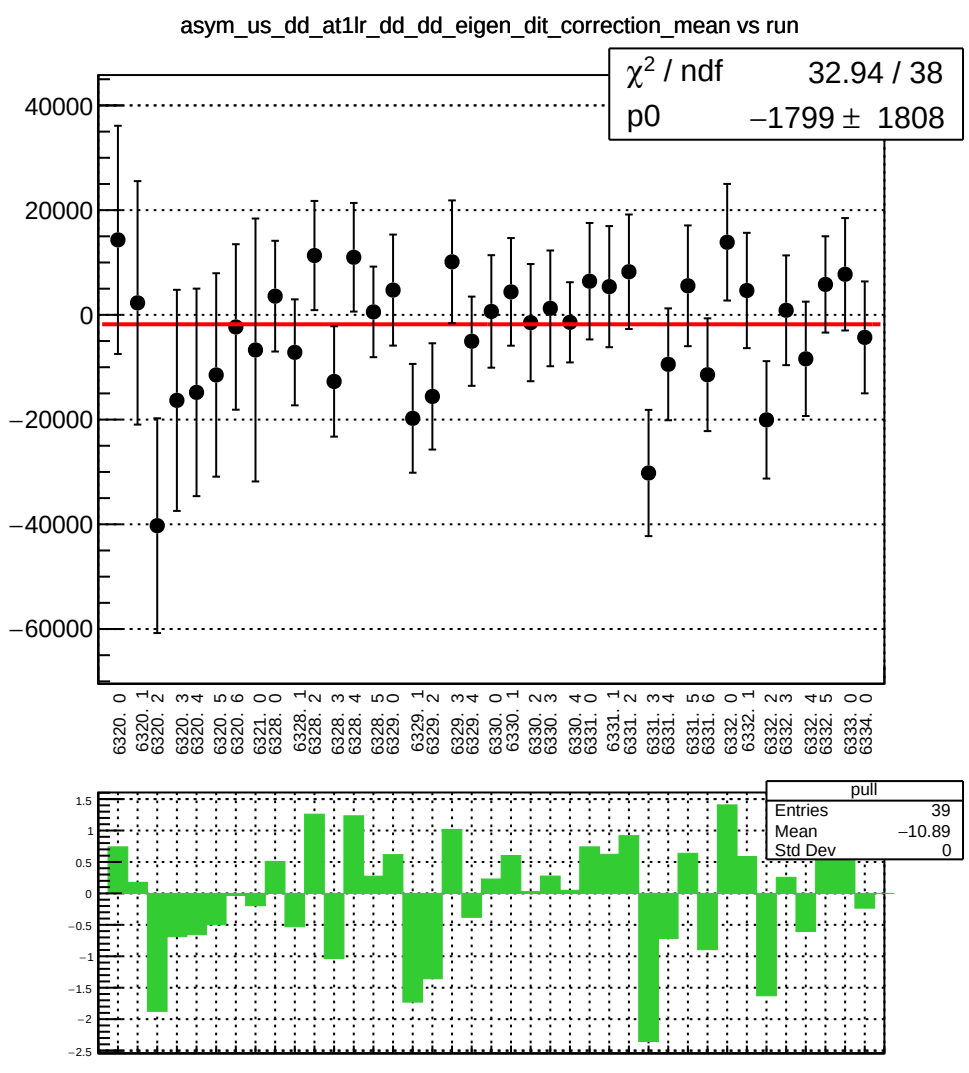

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.32 / 38
p0 1725 ± 1.982
1760
1750
1740
1730
1720
1710
1700
1690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

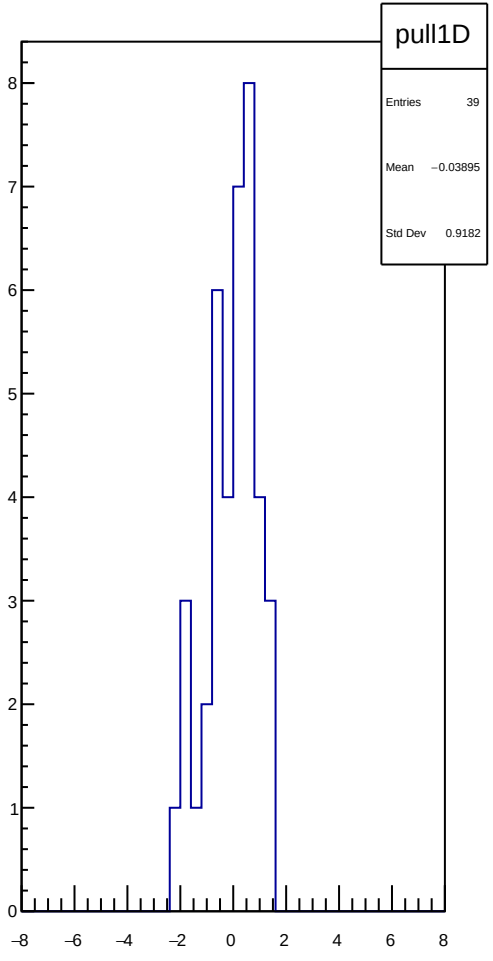

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 32.94 / 38
p0 −1799 ± 1808
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03895
Std Dev 0.9182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

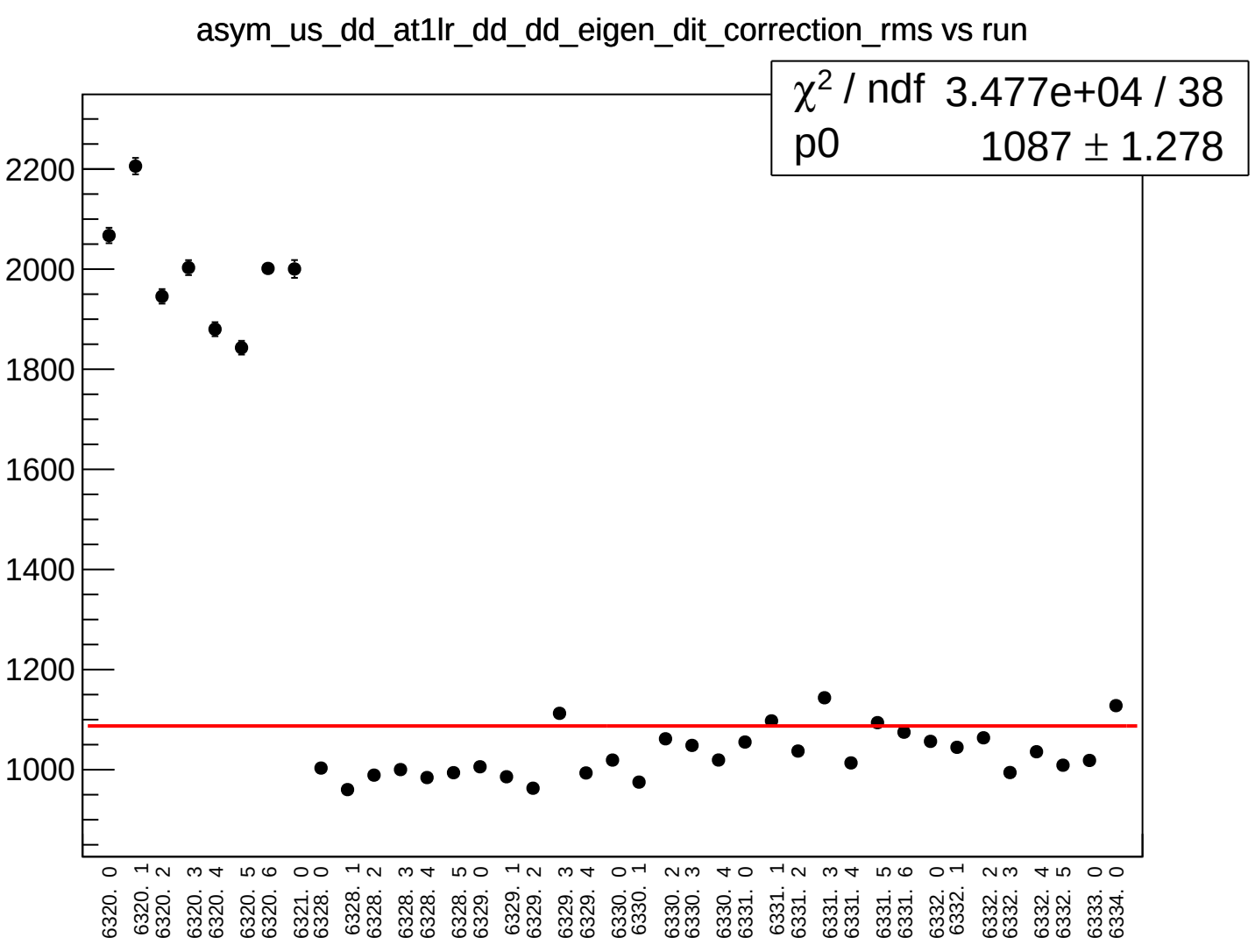

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3.477e+04 / 38
p0 1087 ± 1.278
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

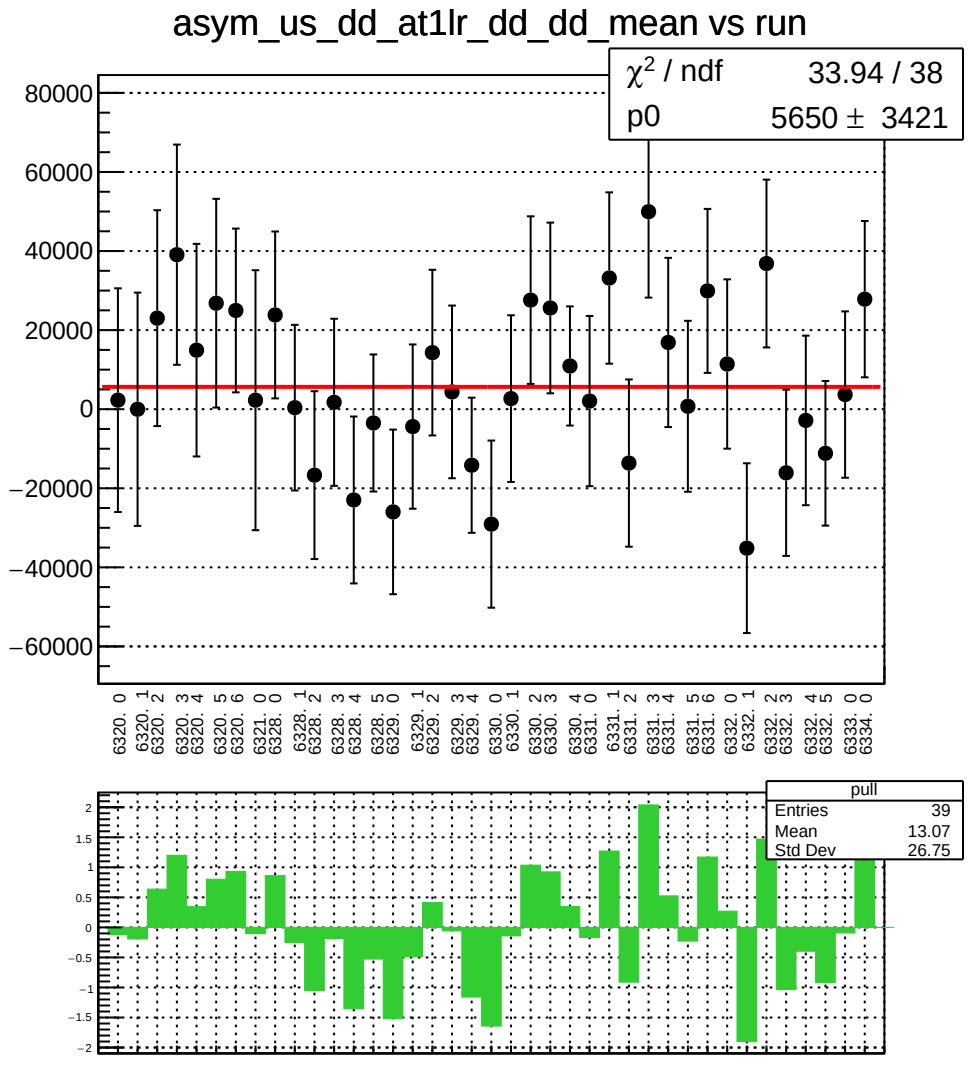

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.64 / 38
p0 3983 ± 2802
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −64.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.00781
Std Dev 0.9824
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

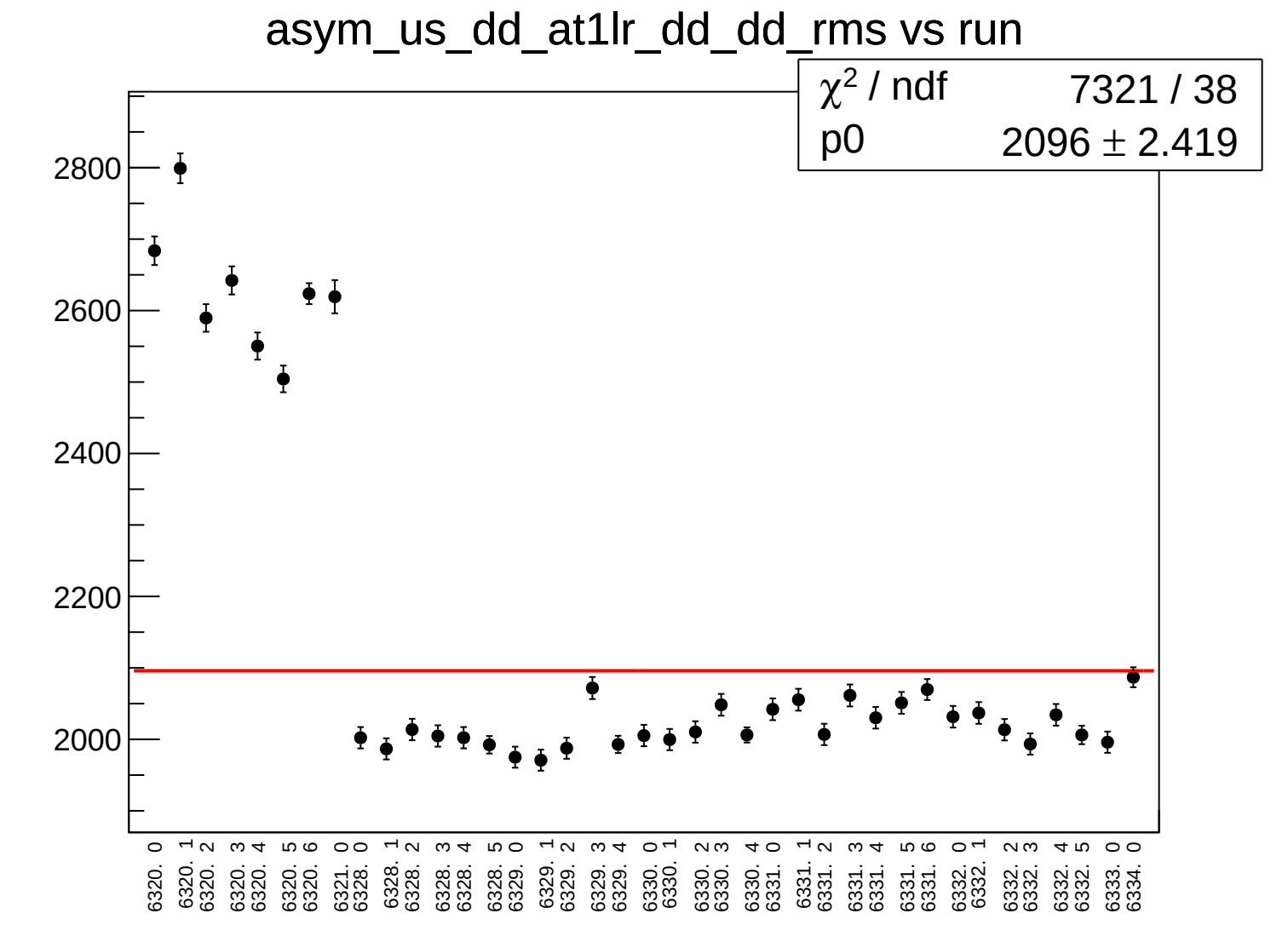

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.32 / 38
p0 1725 ± 1.982
1760
1750
1740
1730
1720
1710
1700
1690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

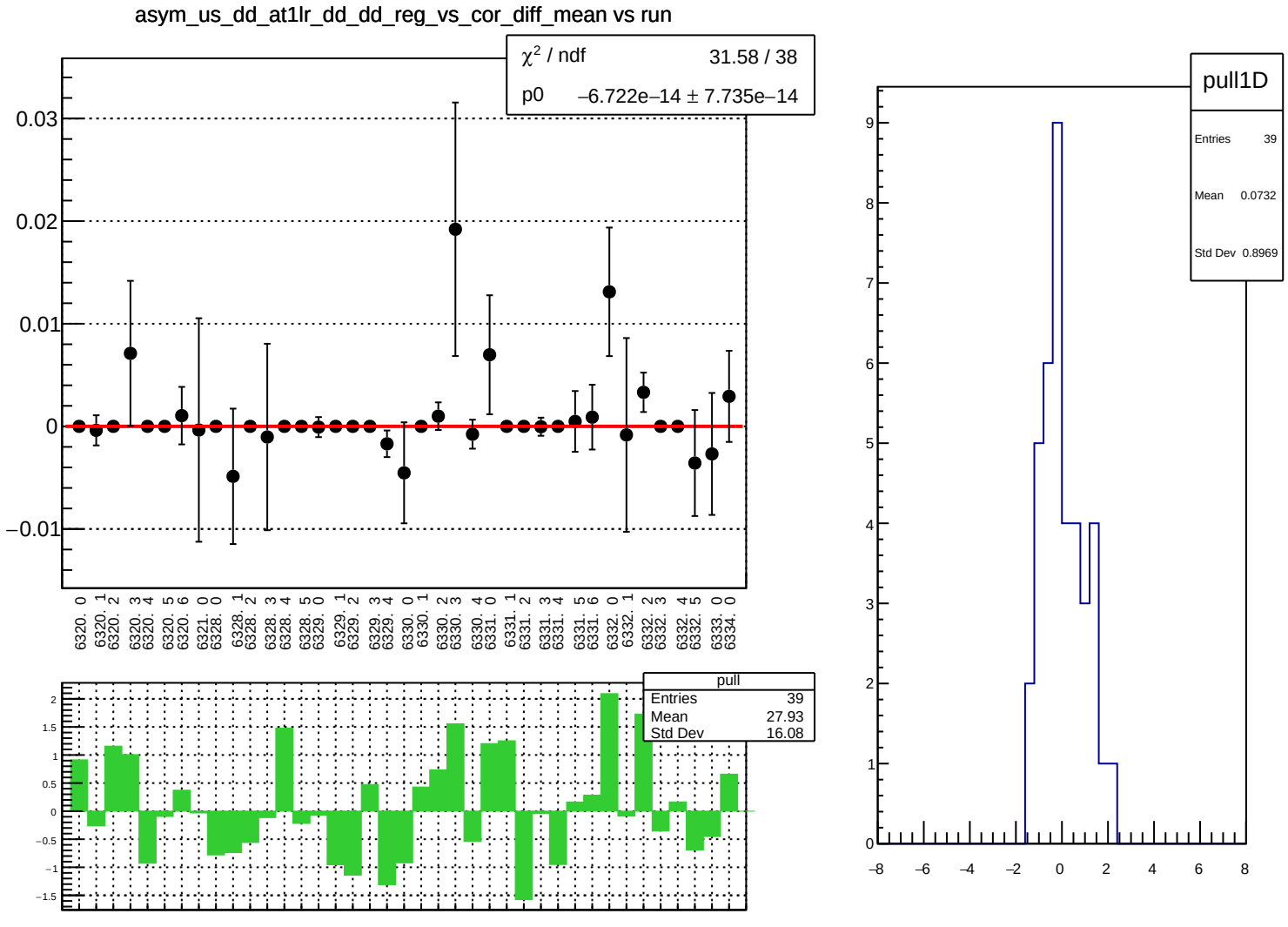

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.94 / 38
p0 −1799 ± 1808
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

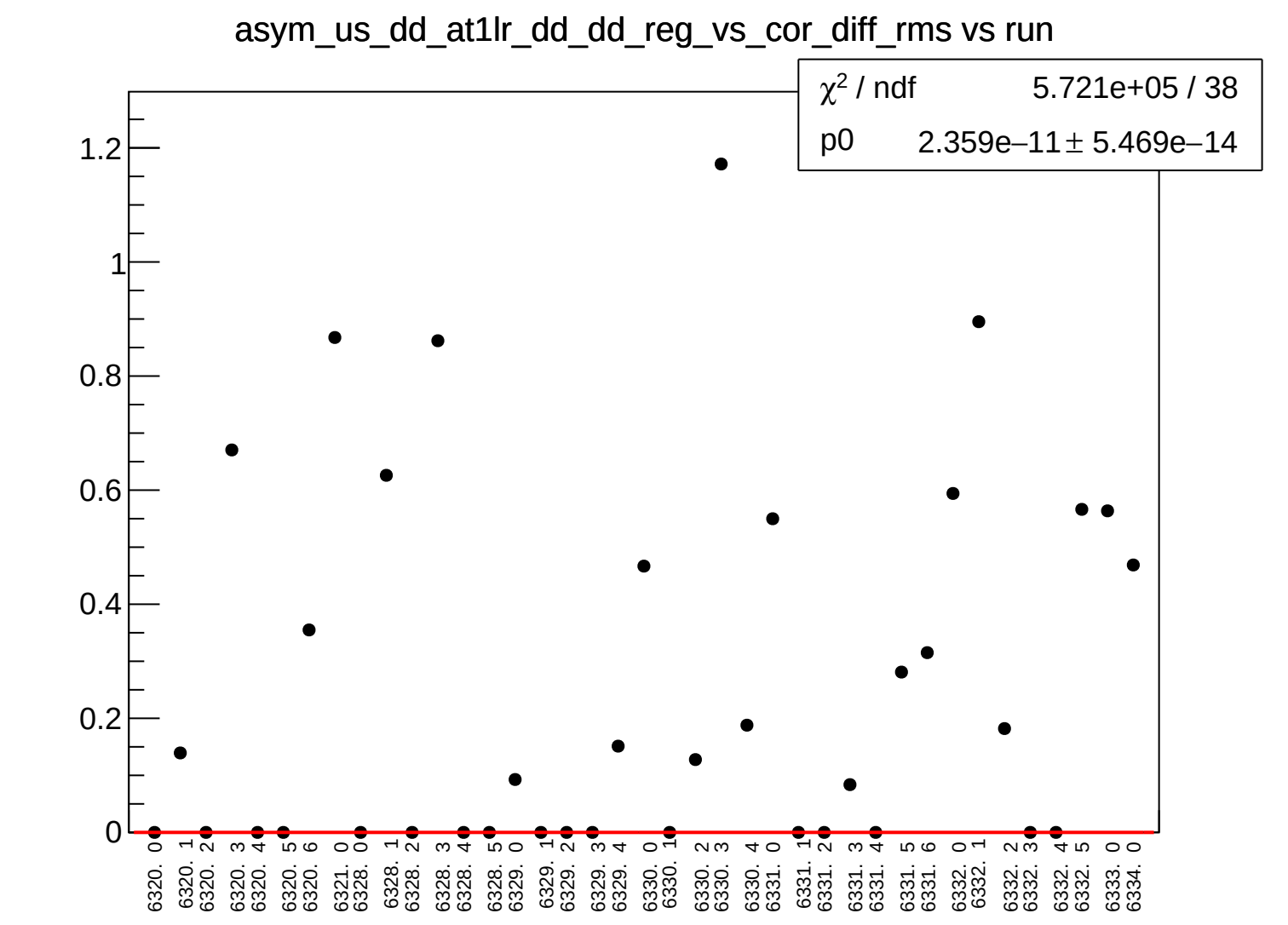

pull1D
Entries 39
Mean −0.03895
Std Dev 0.9182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

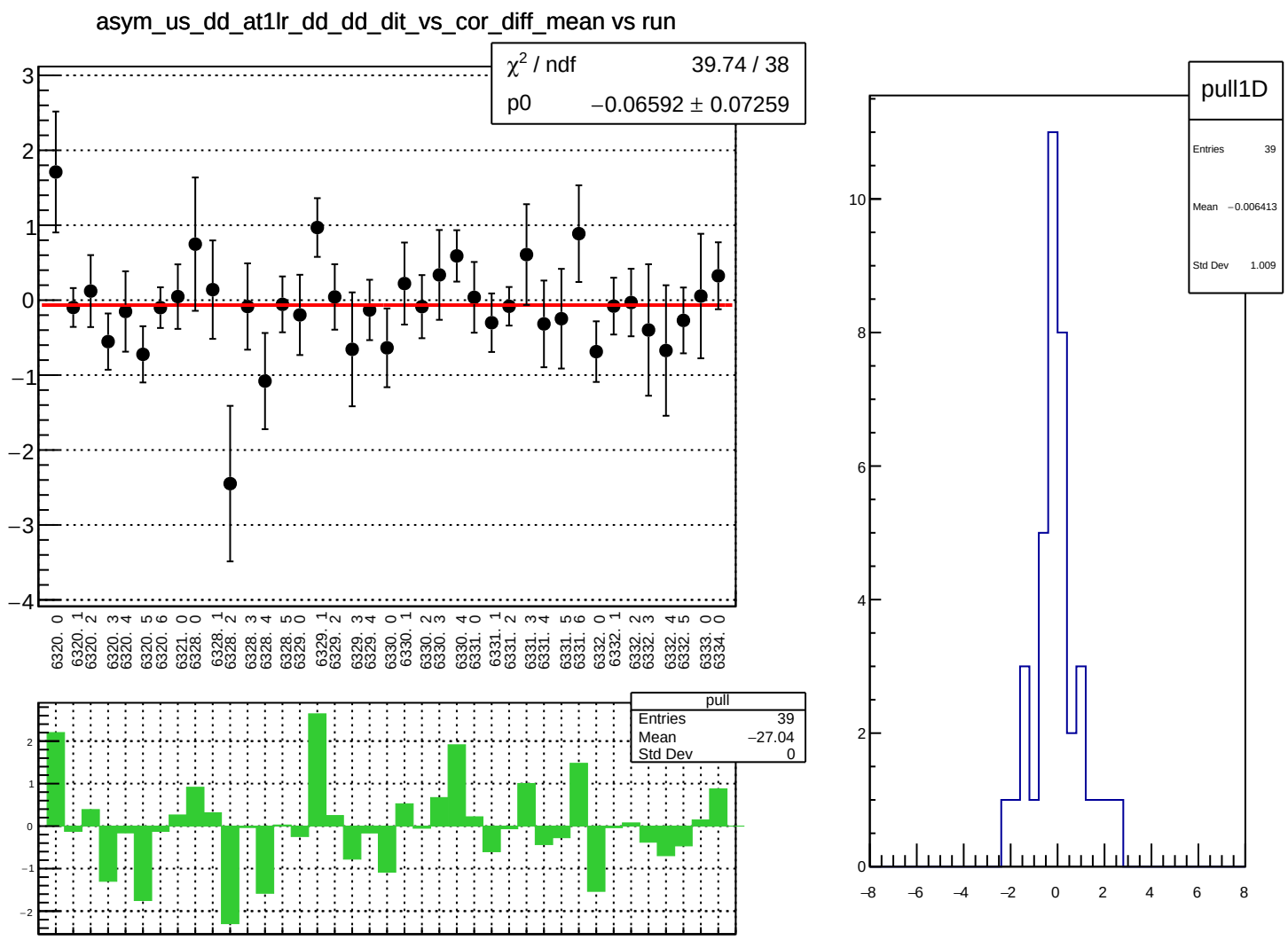

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.477e+04 / 38
p0 1087 ± 1.278
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

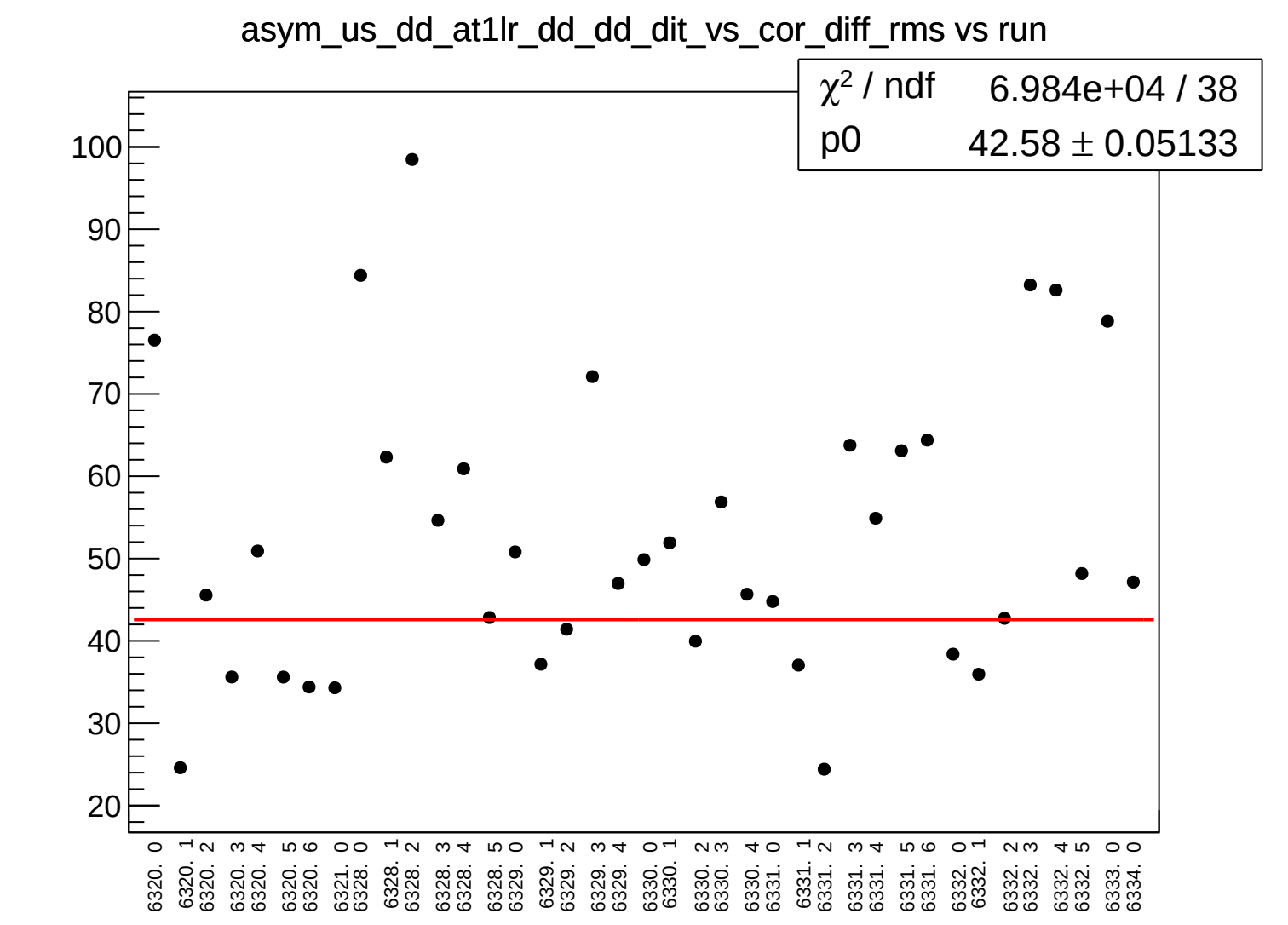

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 33.94 / 38
p0 5650 ± 3421
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.07
Std Dev 26.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02387
Std Dev 0.9326
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

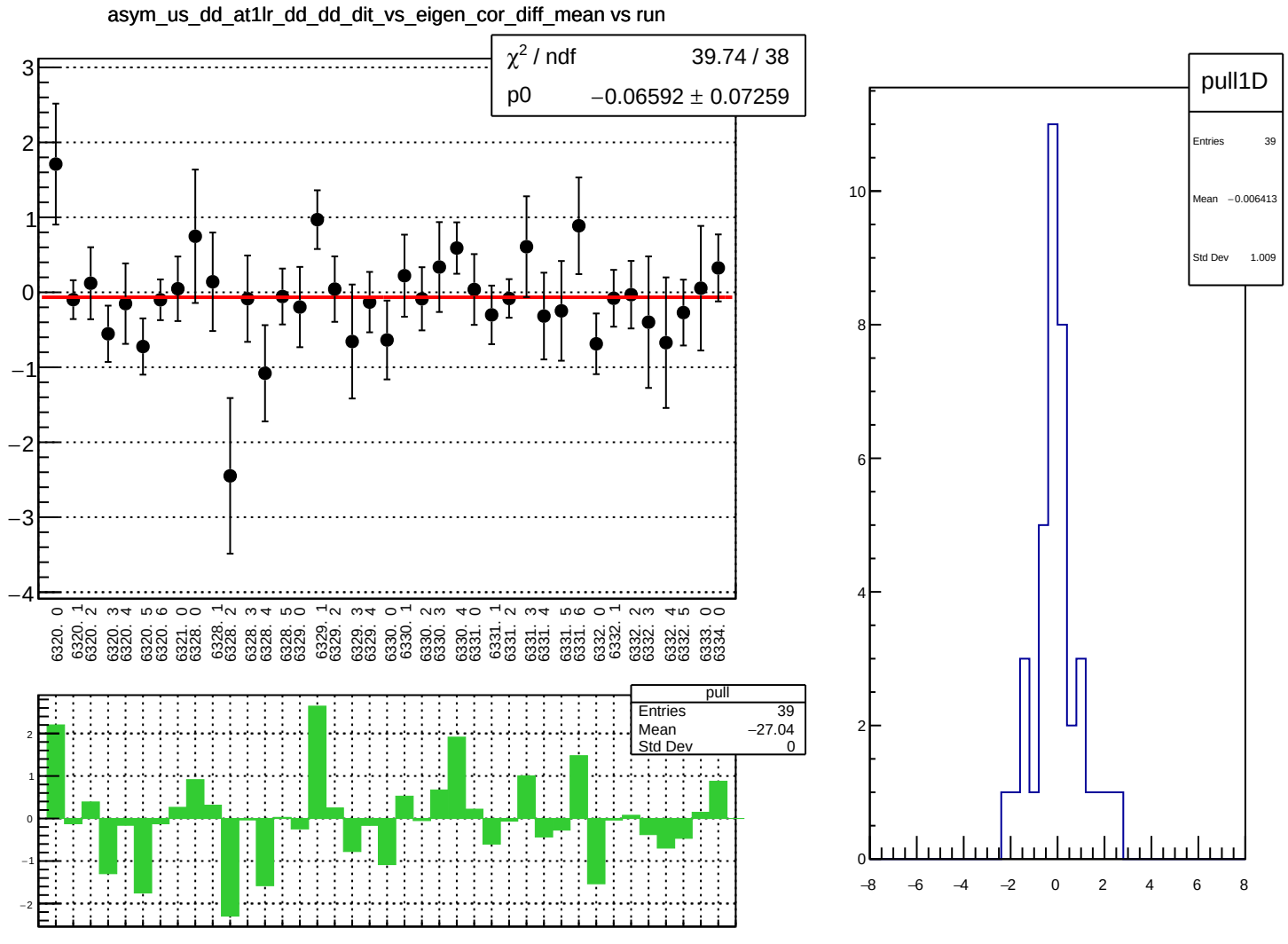

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 7321 / 38
p0 2096 ± 2.419
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

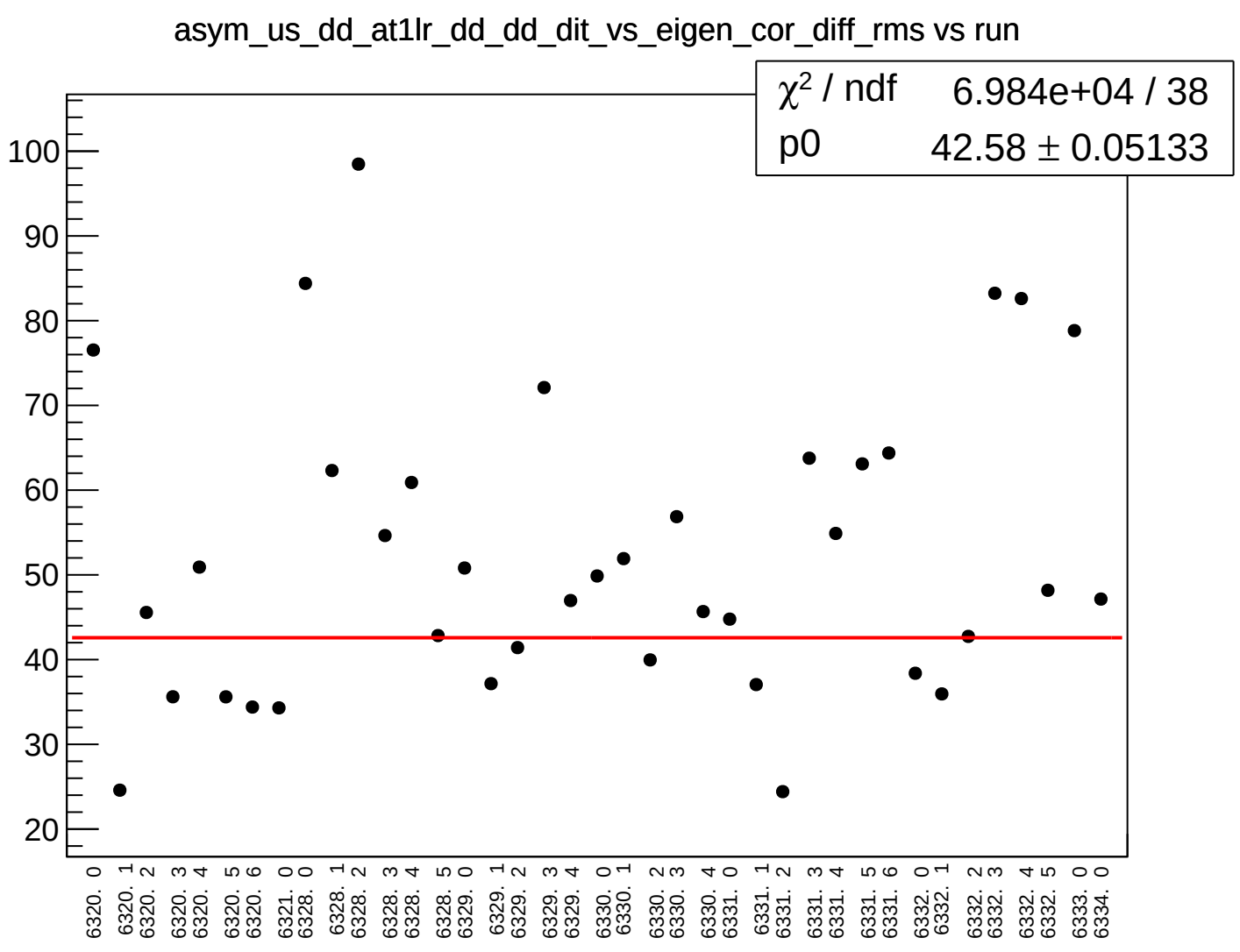

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.58 / 38
p0 −6.722e−14 ± 7.735e−14
0.03
0.02
0.01
0
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.93
Std Dev 16.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0732
Std Dev 0.8969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

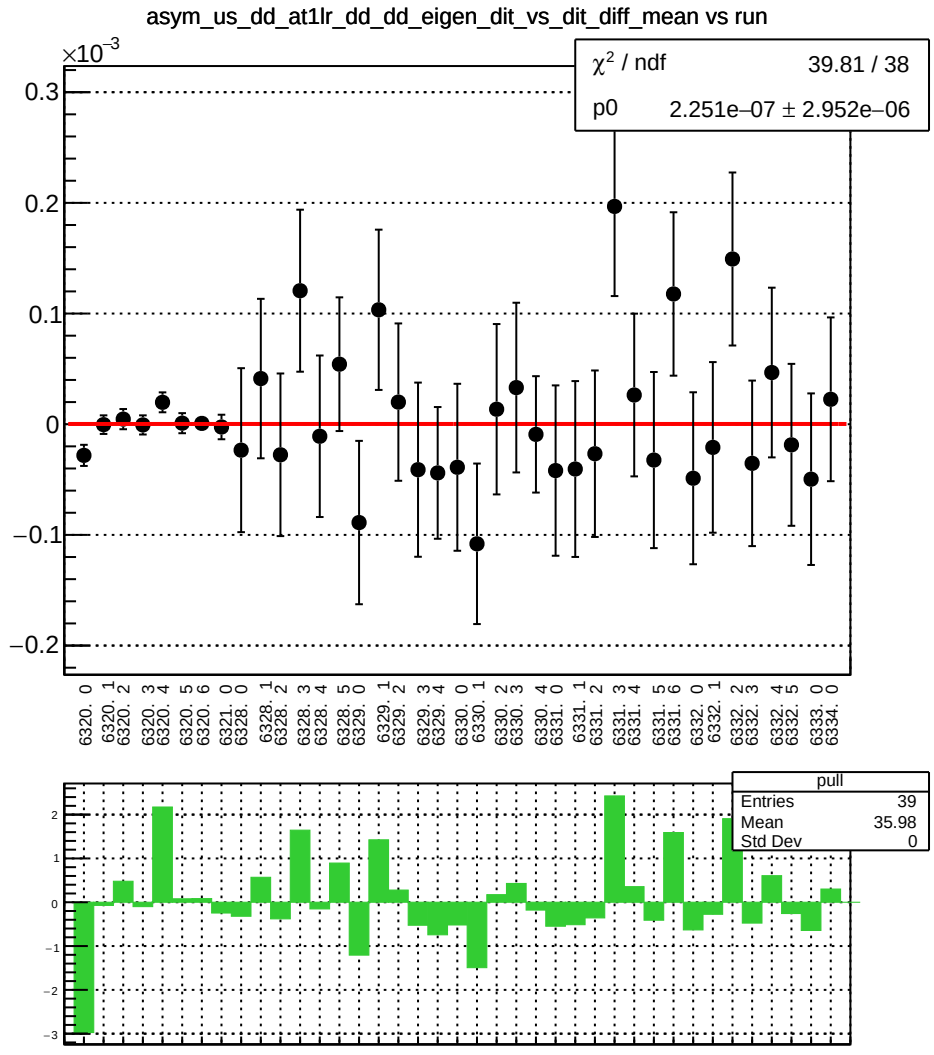

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.721e+05 / 38
p0 2.359e−11 ± 5.469e−14
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

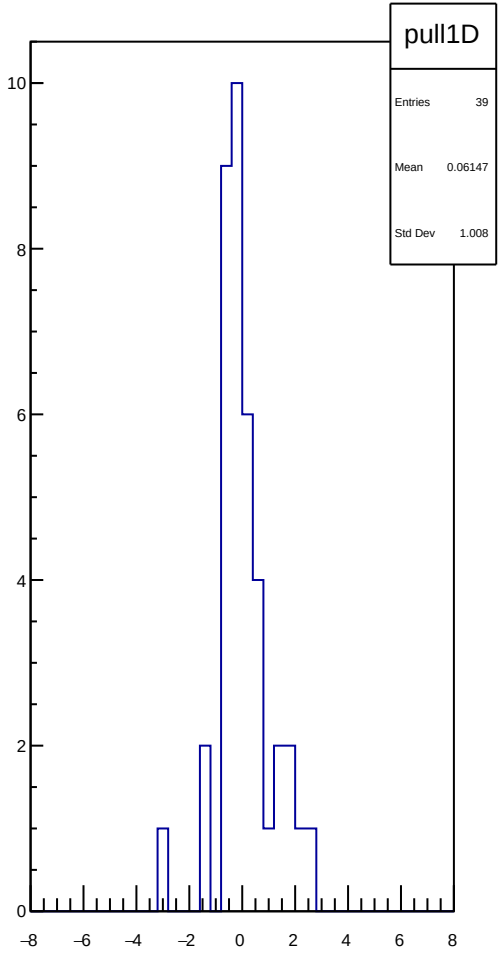

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.74 / 38
p0 −0.06592 ± 0.07259
pull
Entries 39
Mean −27.04
Std Dev 0
pull1D
Entries 39
Mean −0.006413
Std Dev 1.009

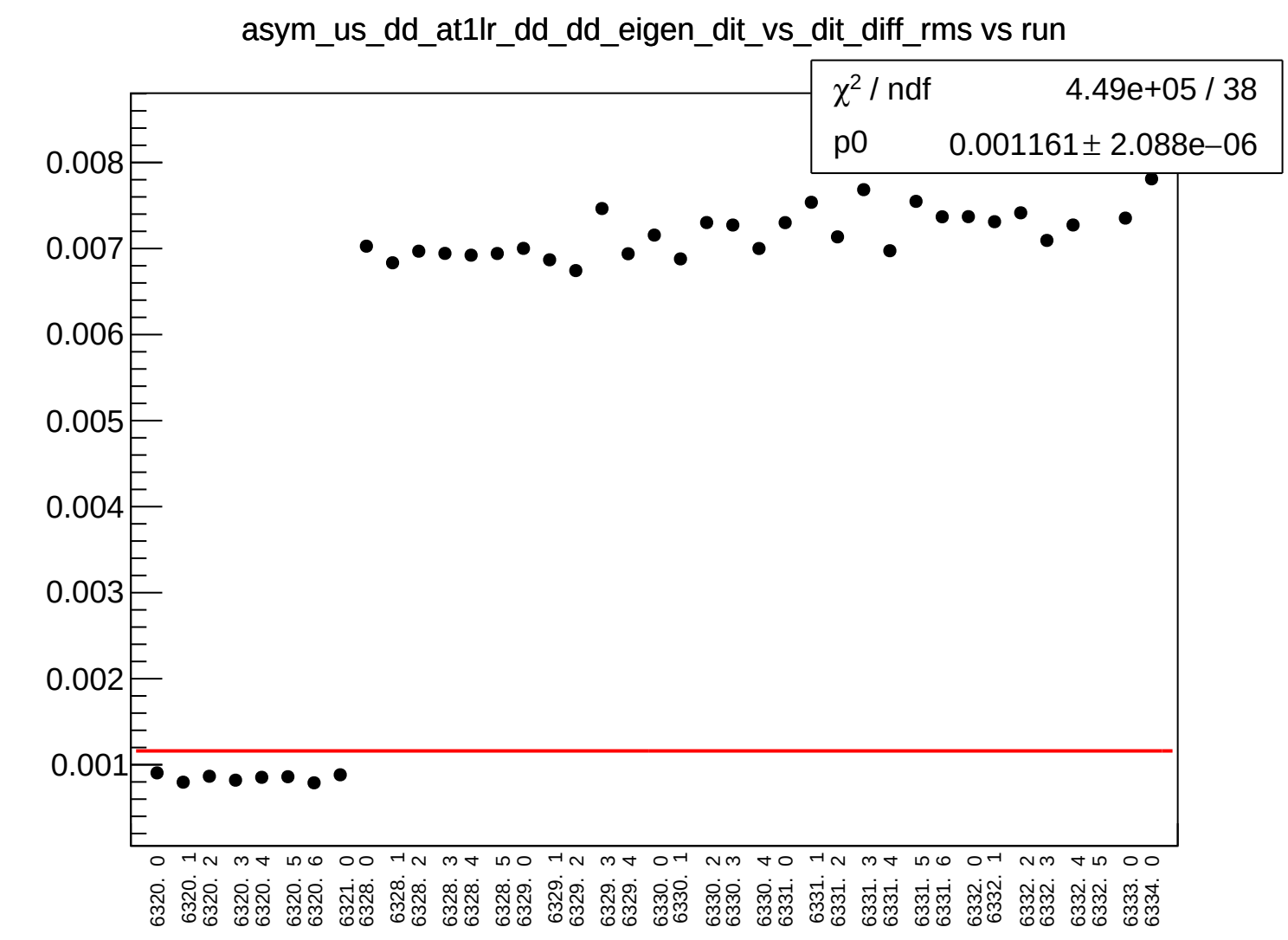

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.984e+04 / 38
p0 42.58 ± 0.05133
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

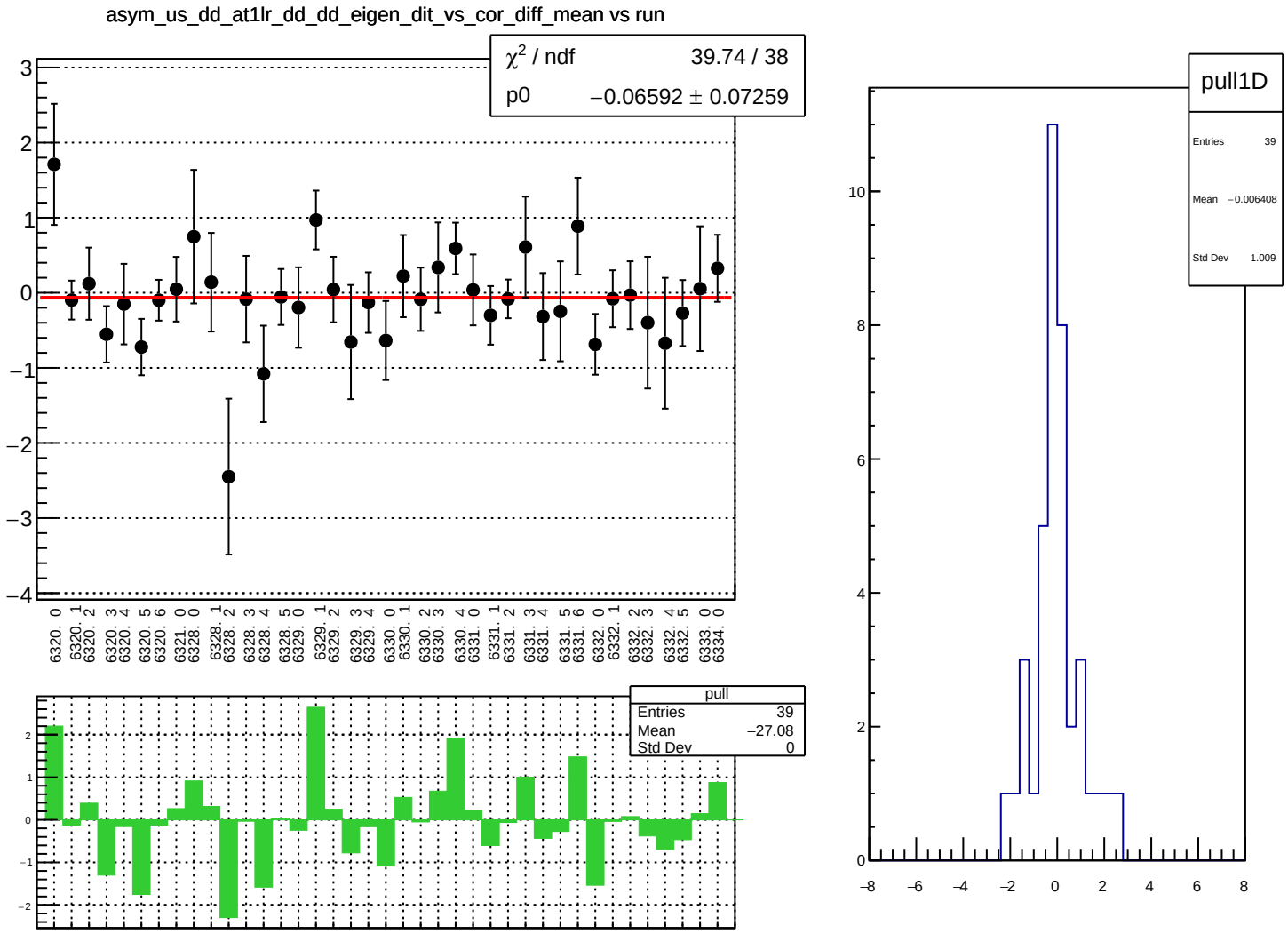

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.74 / 38
p0 −0.06592 ± 0.07259
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.006413
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

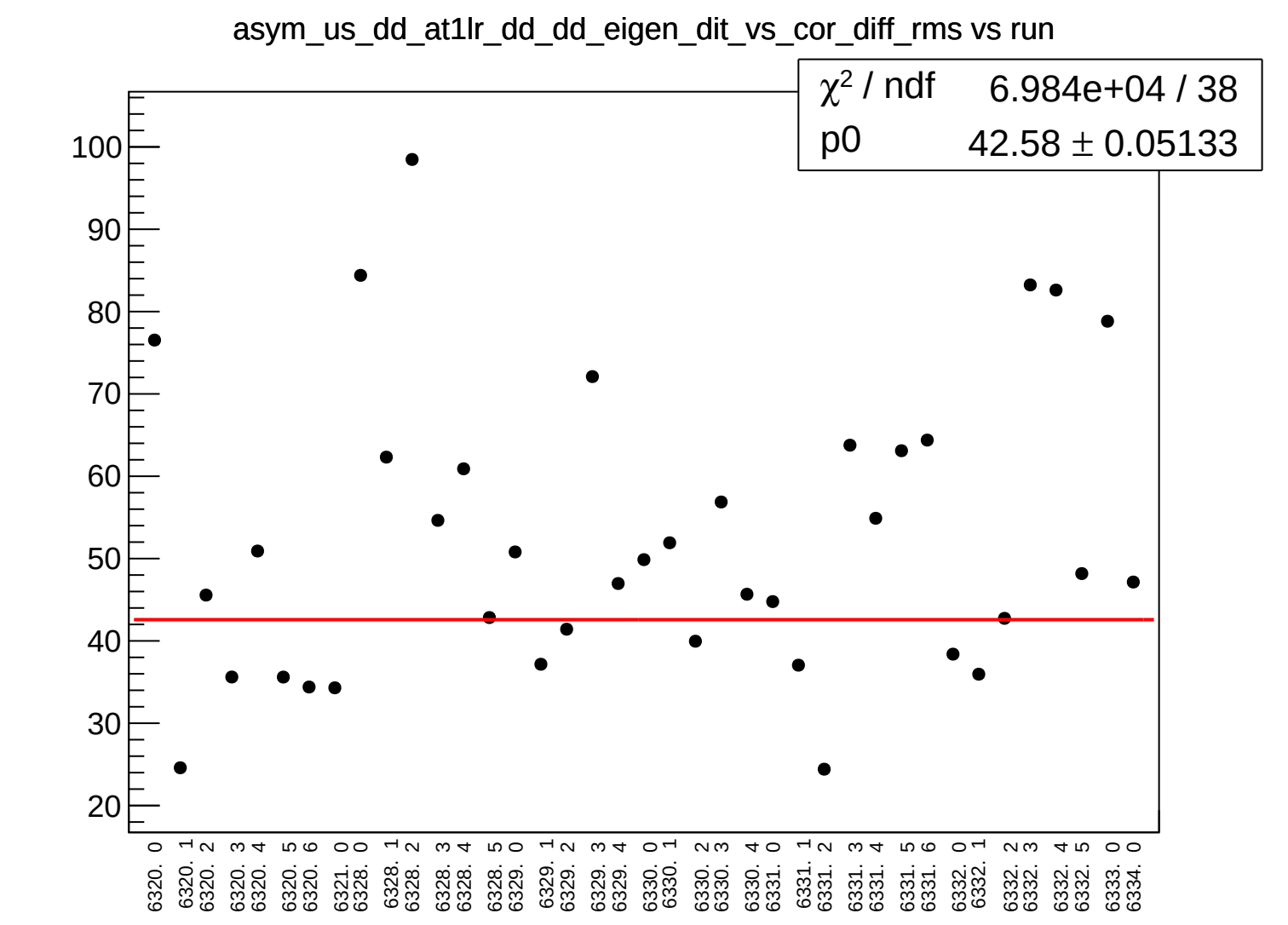

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.984e+04 / 38
p0 42.58 ± 0.05133
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

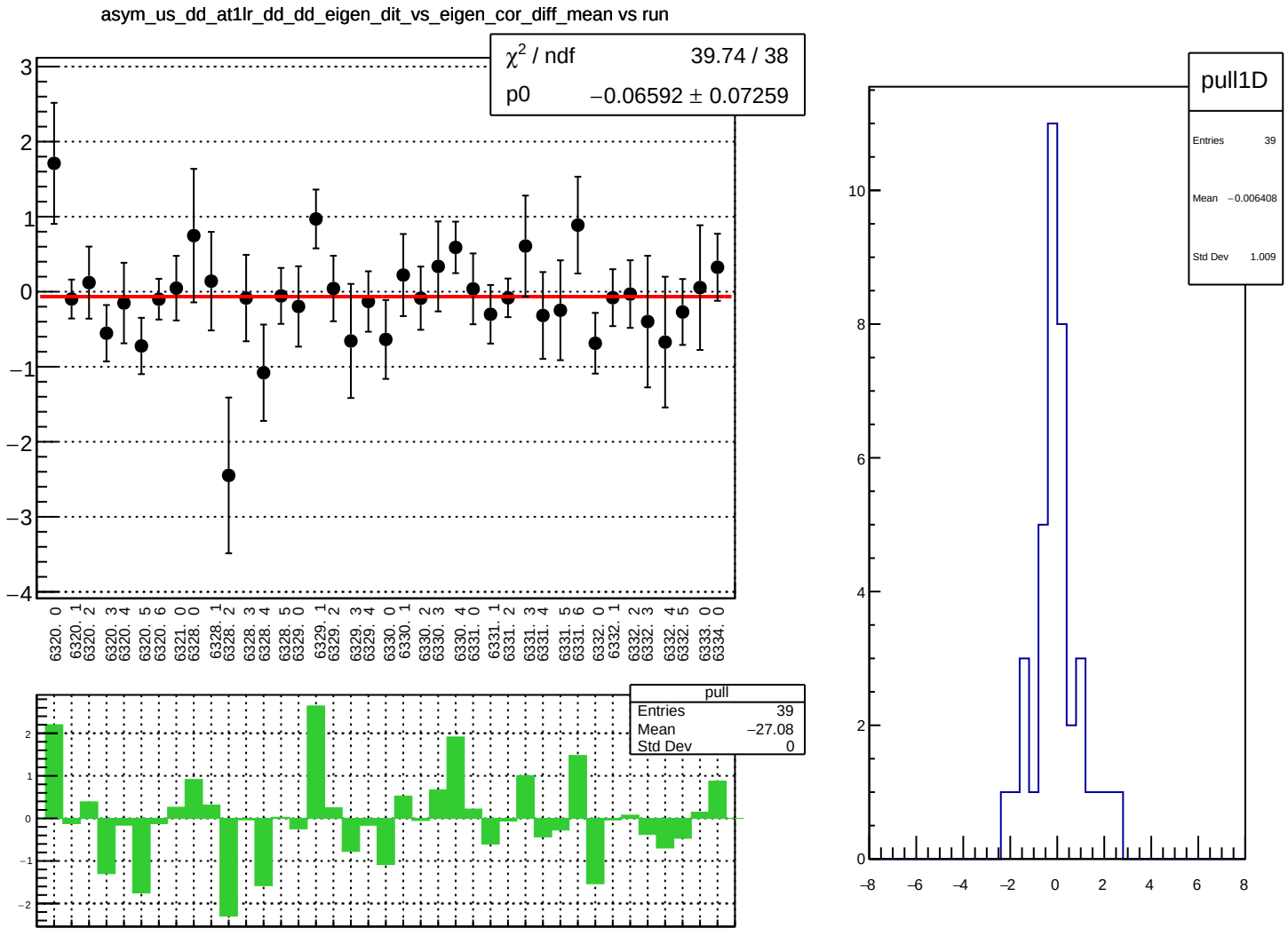

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.81 / 38
p0 2.251e−07 ± 2.952e−06
0.3
0.2
0.1
0
−0.1
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.98
Std Dev 0
2
1
0
−1
−2
−3

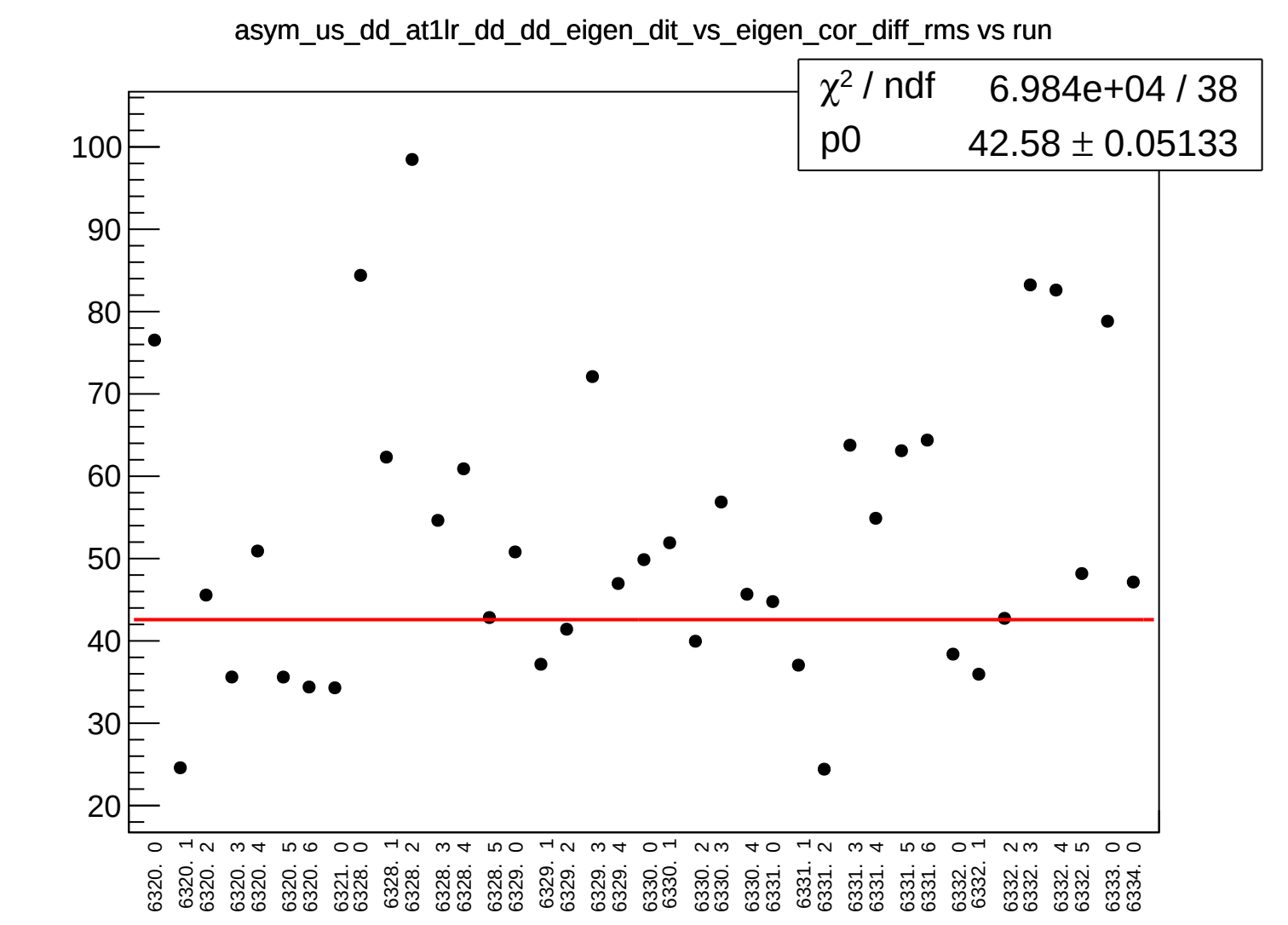

pull1D
Entries 39
Mean 0.06147
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

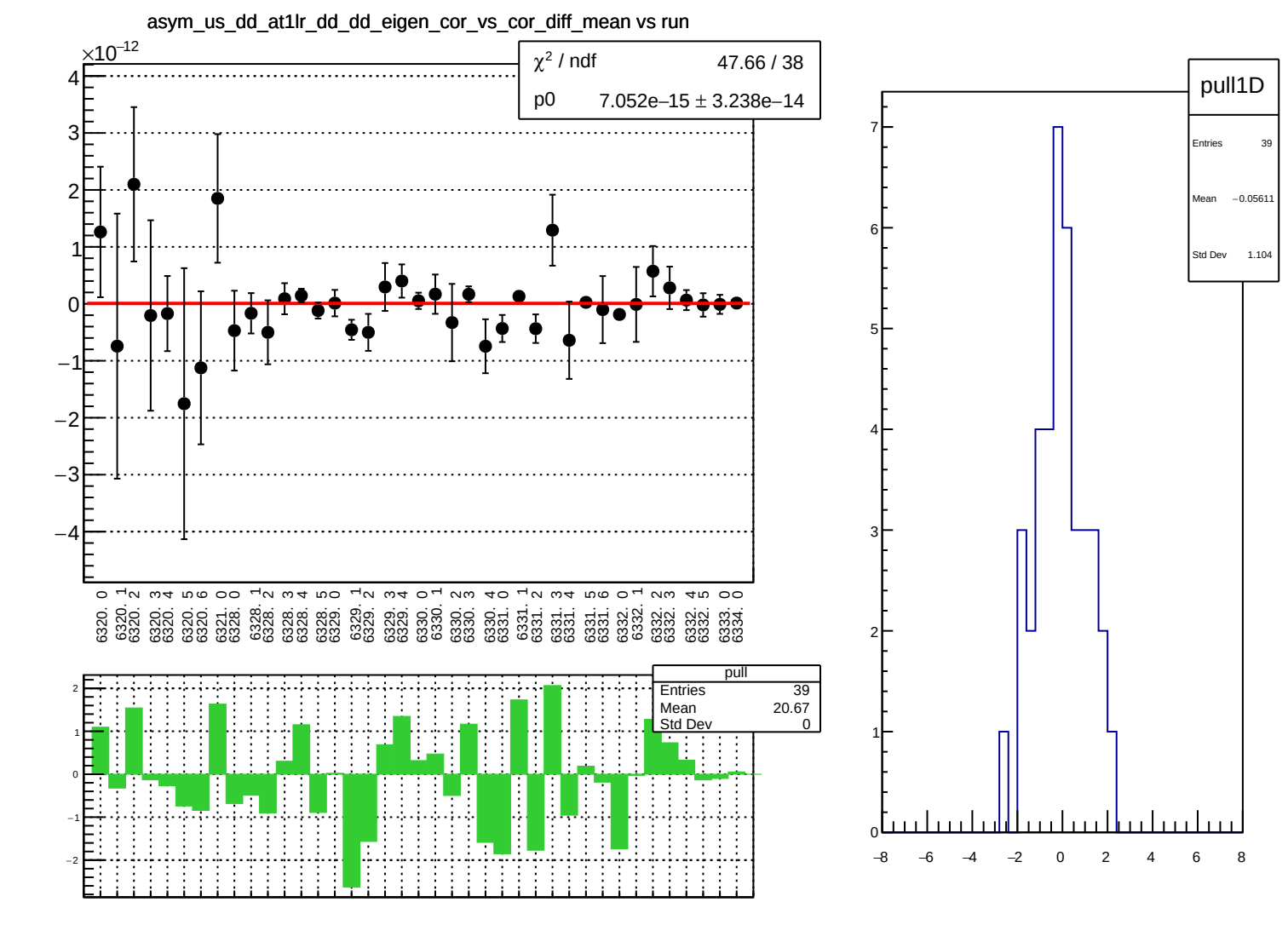

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.49e+05 / 38
p0 0.001161 ± 2.088e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

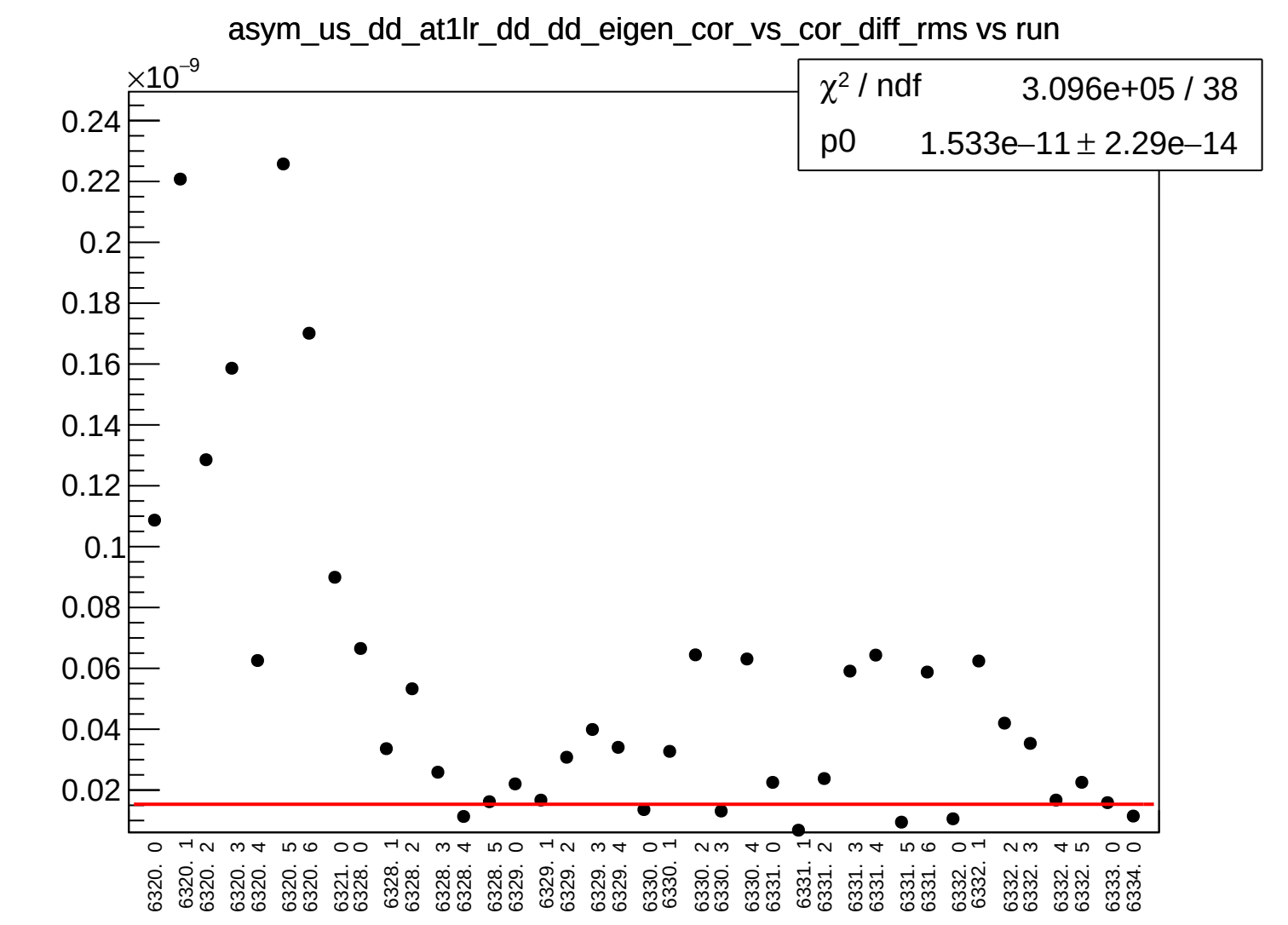

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.74 / 38
p0 −0.06592 ± 0.07259
pull
Entries 39
Mean −27.08
Std Dev 0
pull1D
Entries 39
Mean −0.006408
Std Dev 1.009

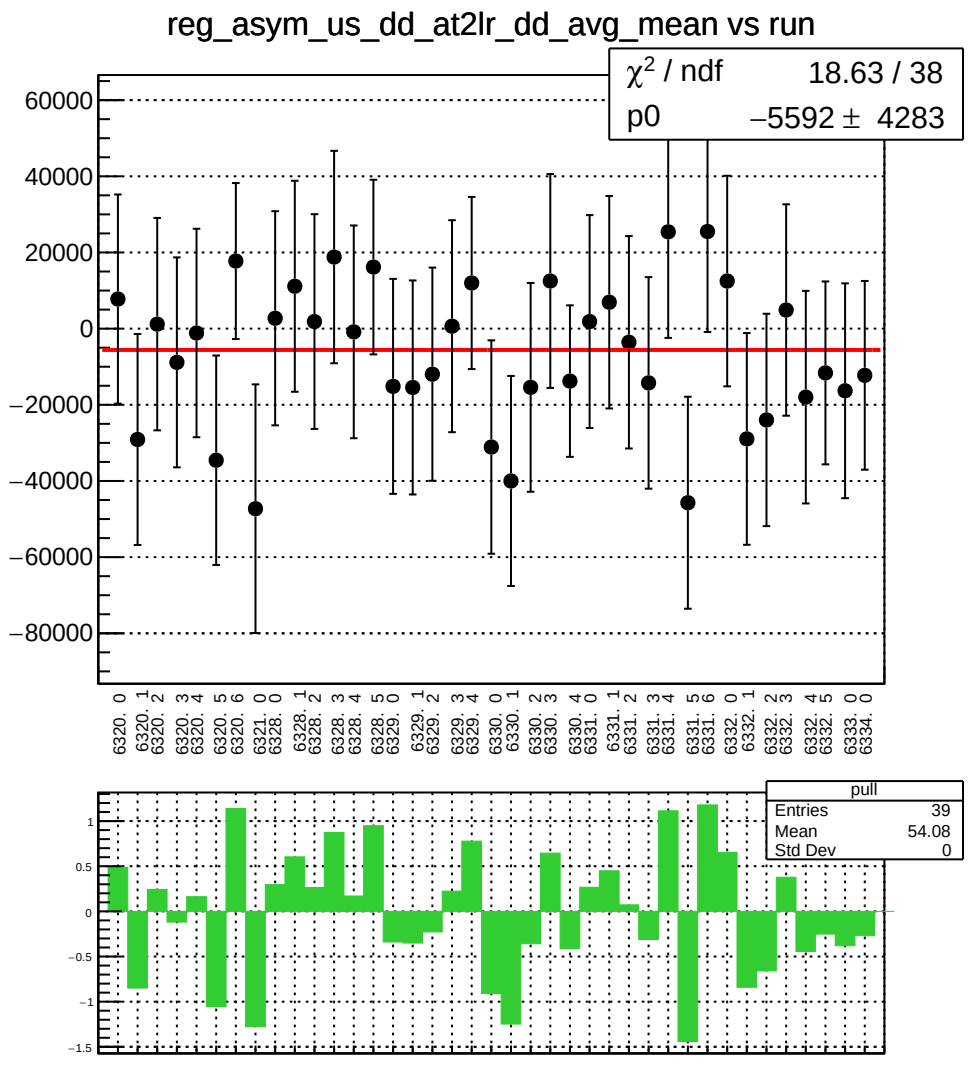

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.984e+04 / 38
p0 42.58 ± 0.05133
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

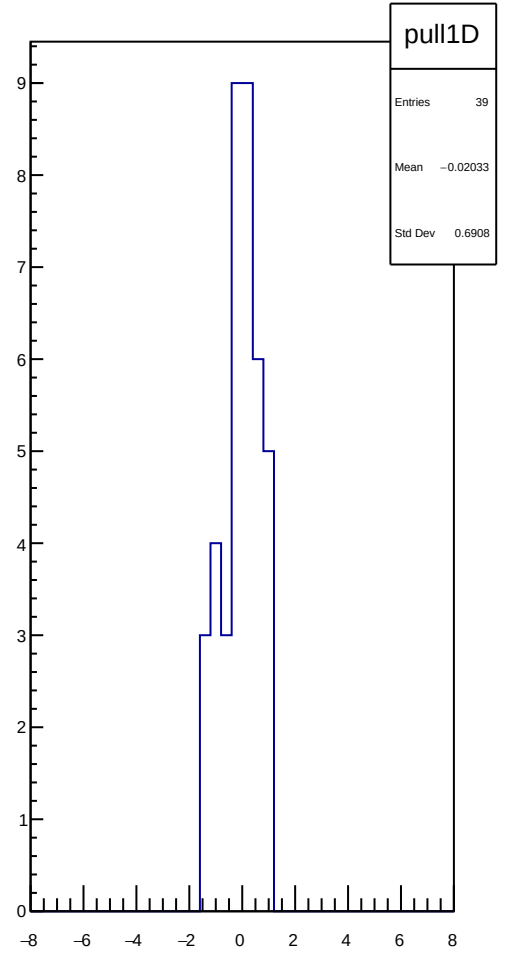

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.74 / 38
p0 −0.06592 ± 0.07259
pull
Entries 39
Mean −27.08
Std Dev 0
pull1D
Entries 39
Mean −0.006408
Std Dev 1.009

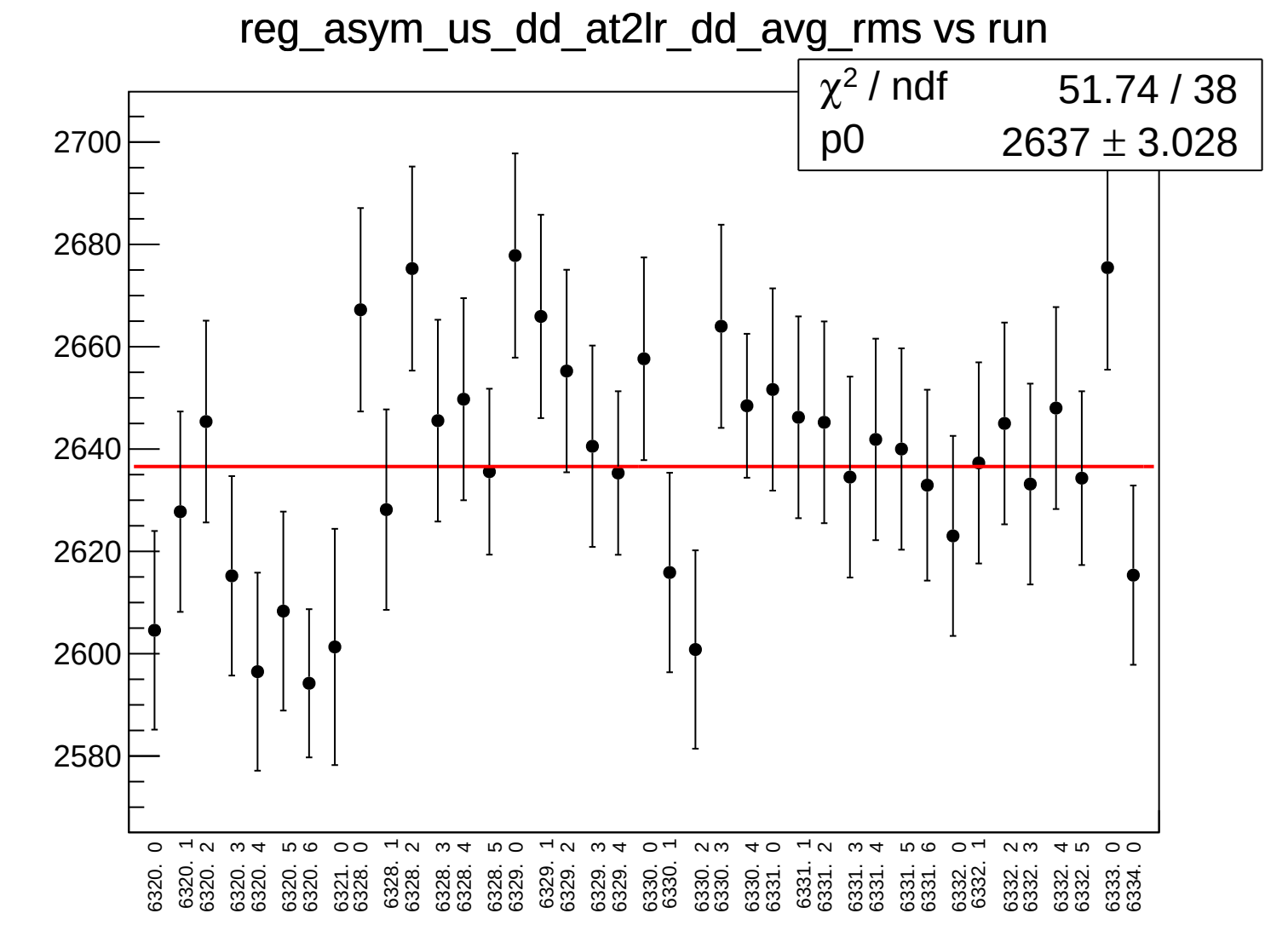

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.984e+04 / 38
p0 42.58 ± 0.05133
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

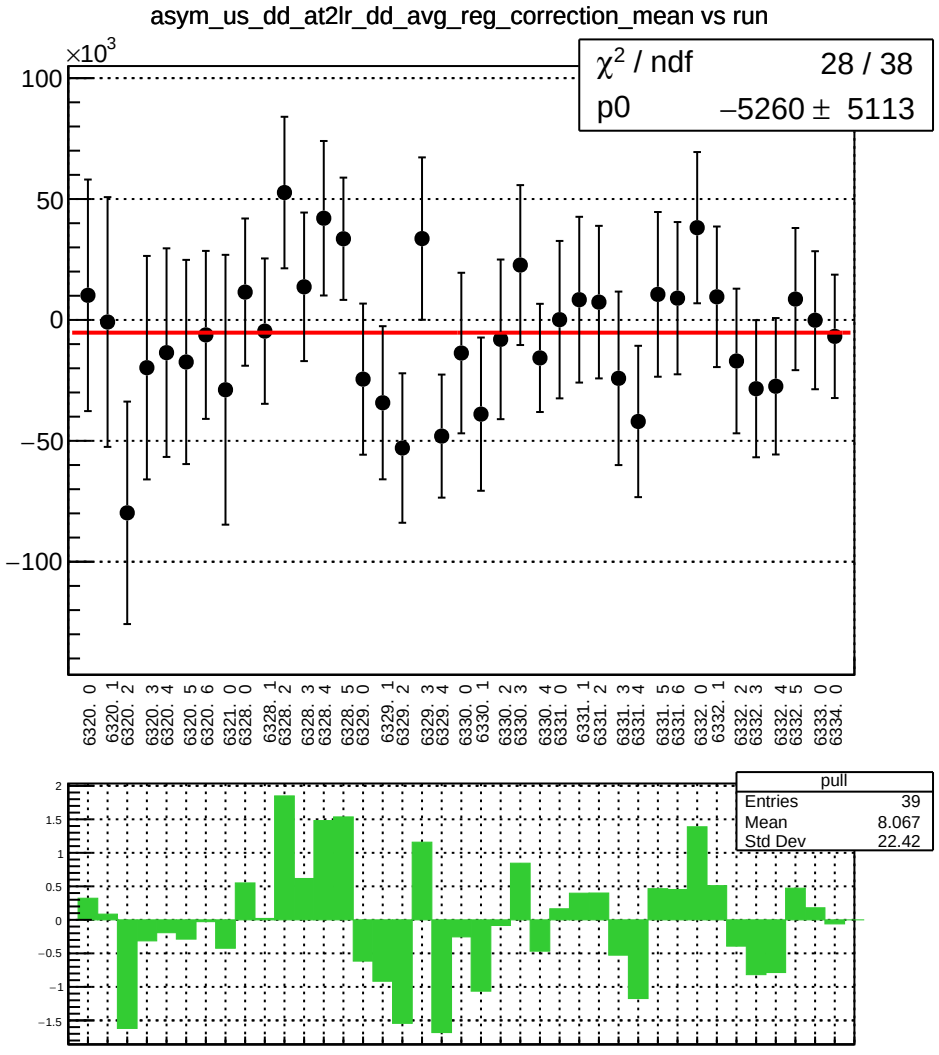

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.66 / 38
p0 7.052e−15 ± 3.238e−14
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.67
Std Dev 0
pull1D
Entries 39
Mean −0.05611
Std Dev 1.104

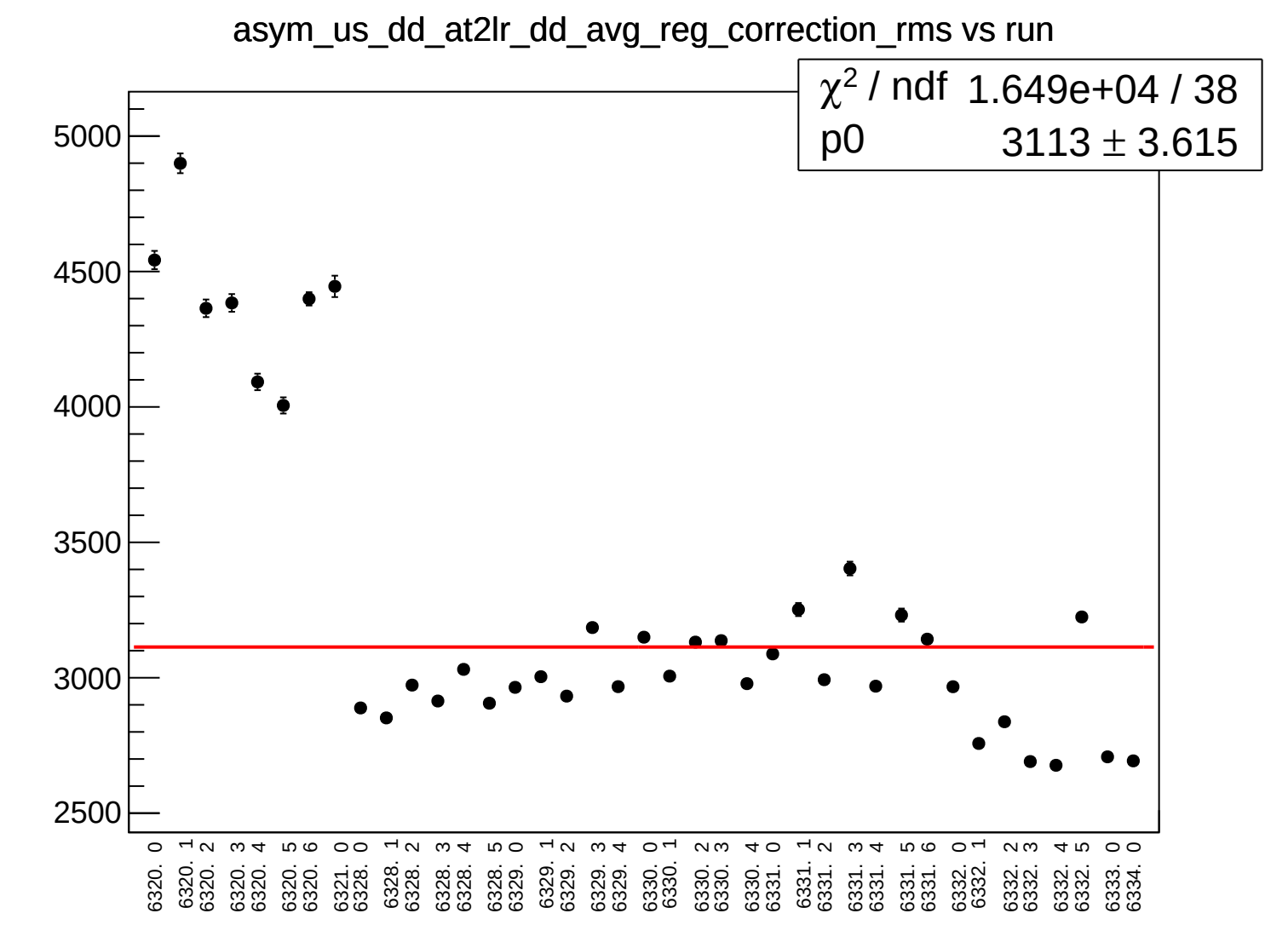

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.096e+05 / 38
p0 1.533e−11 ± 2.29e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

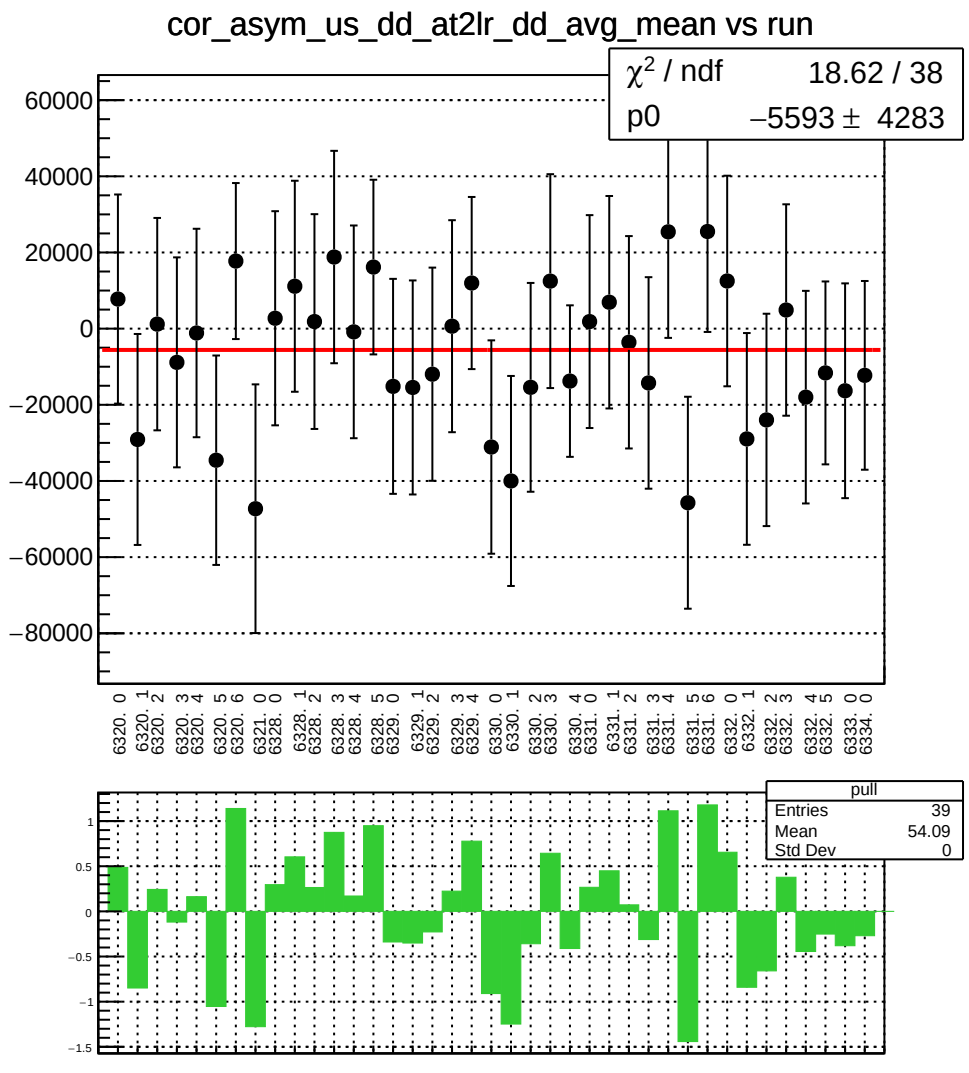

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 18.63 / 38
p0 −5592 ± 4283
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.08
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

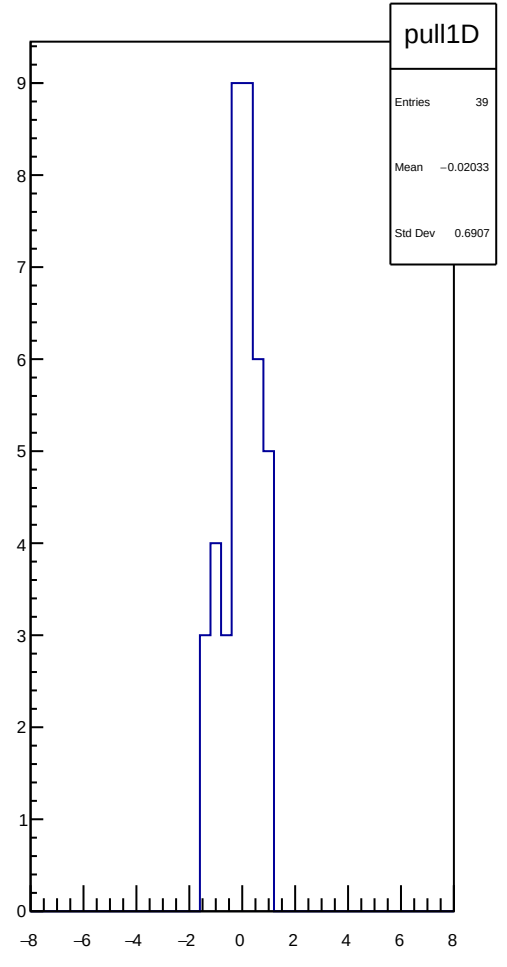

pull1D
Entries 39
Mean −0.02033
Std Dev 0.6908
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

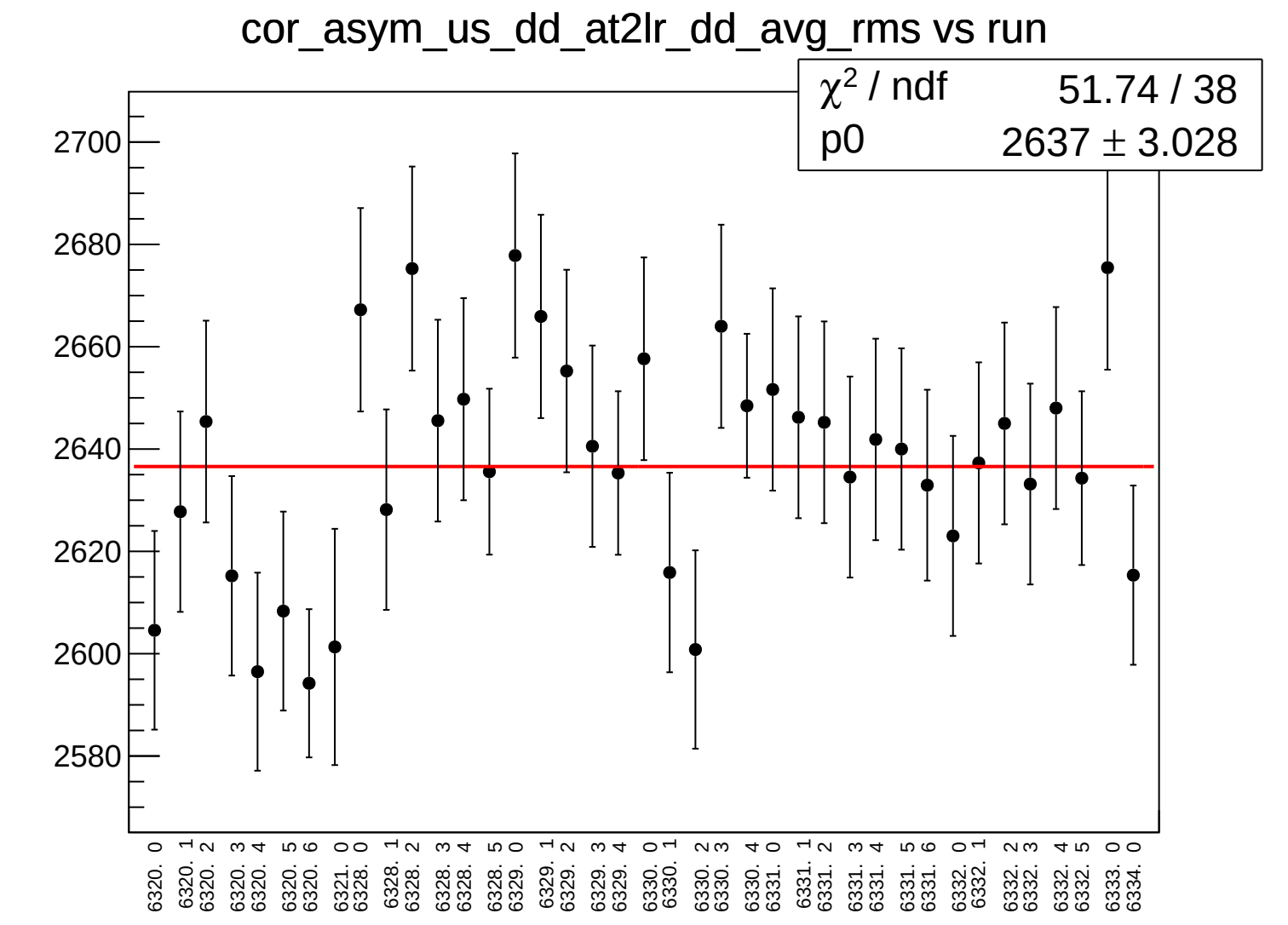

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 51.74 / 38
p0 2637 ± 3.028
2700
2680
2660
2640
2620
2600
2580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

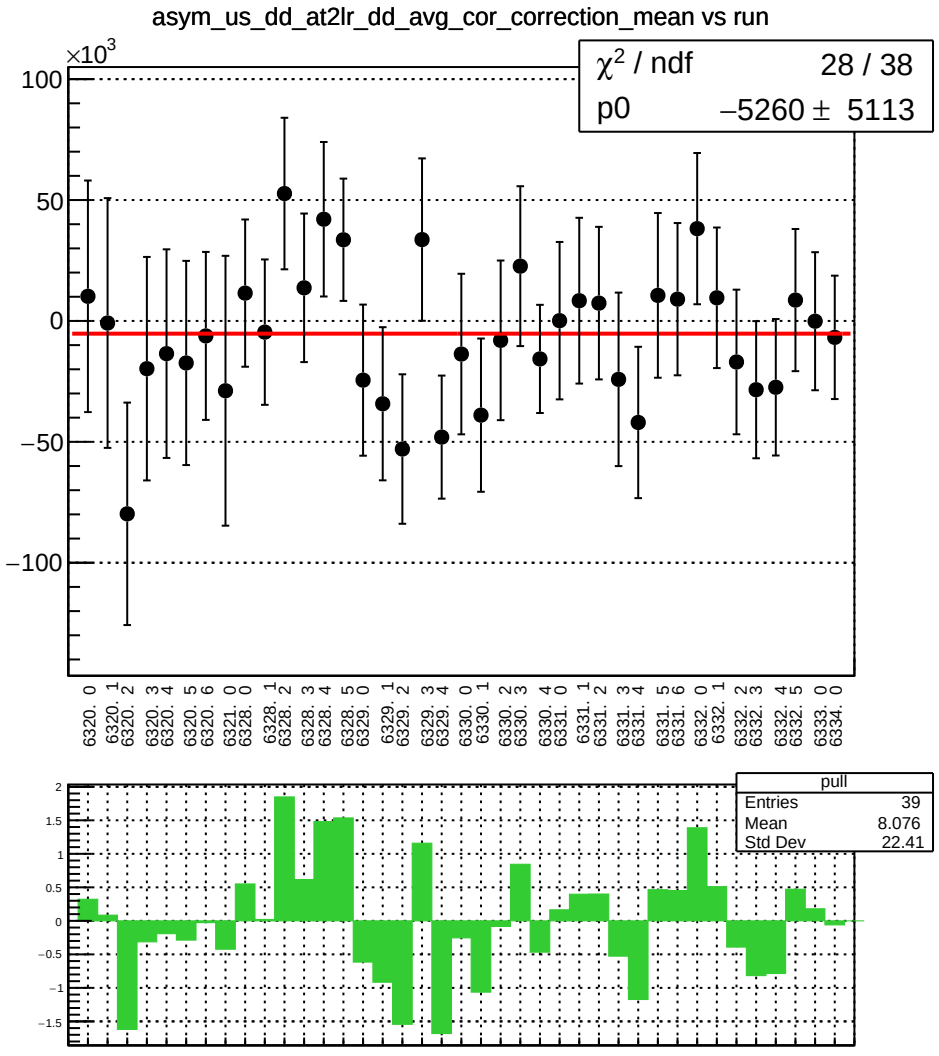

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 28 / 38
p0 −5260 ± 5113
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.067
Std Dev 22.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.008804
Std Dev 0.8473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

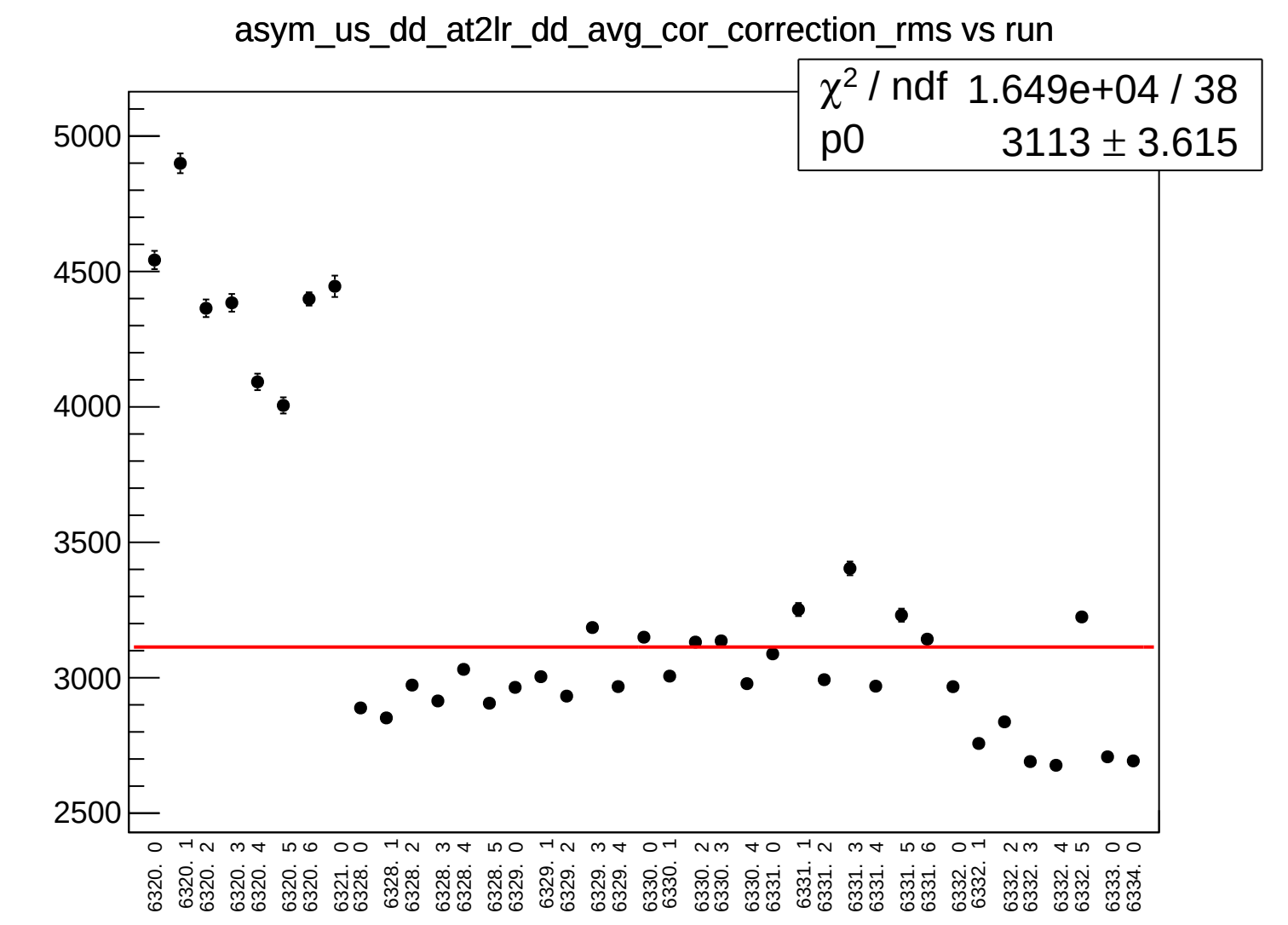

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.649e+04 / 38
p0 3113 ± 3.615
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

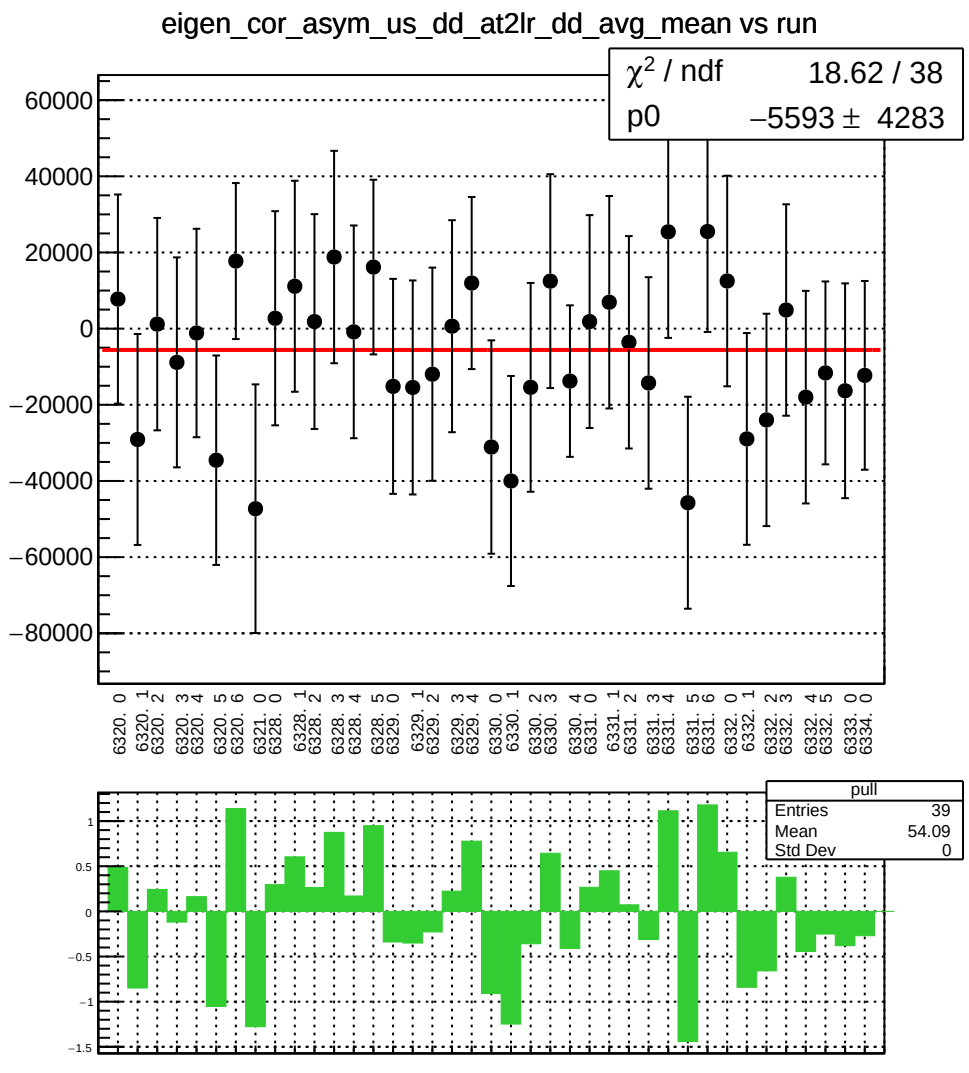

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 18.62 / 38
p0 −5593 ± 4283
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

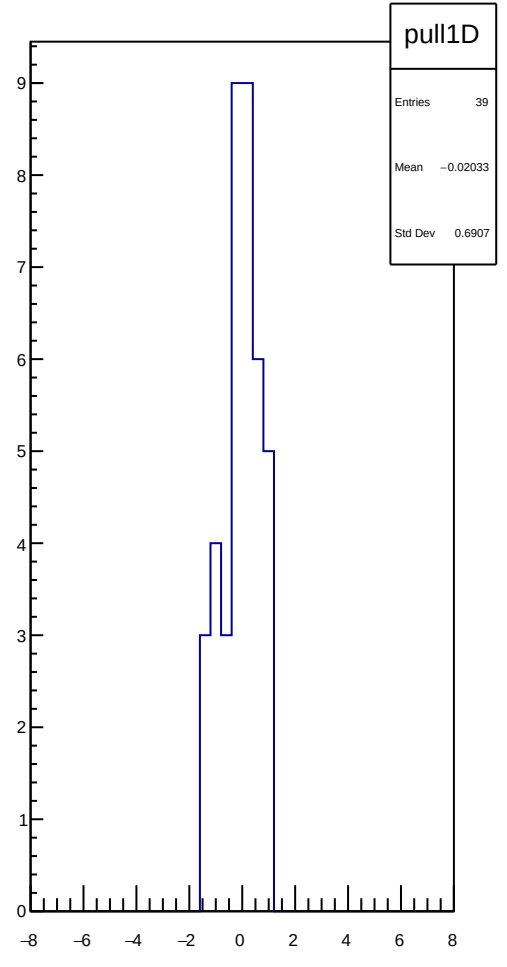

pull1D
Entries 39
Mean −0.02033
Std Dev 0.6907
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

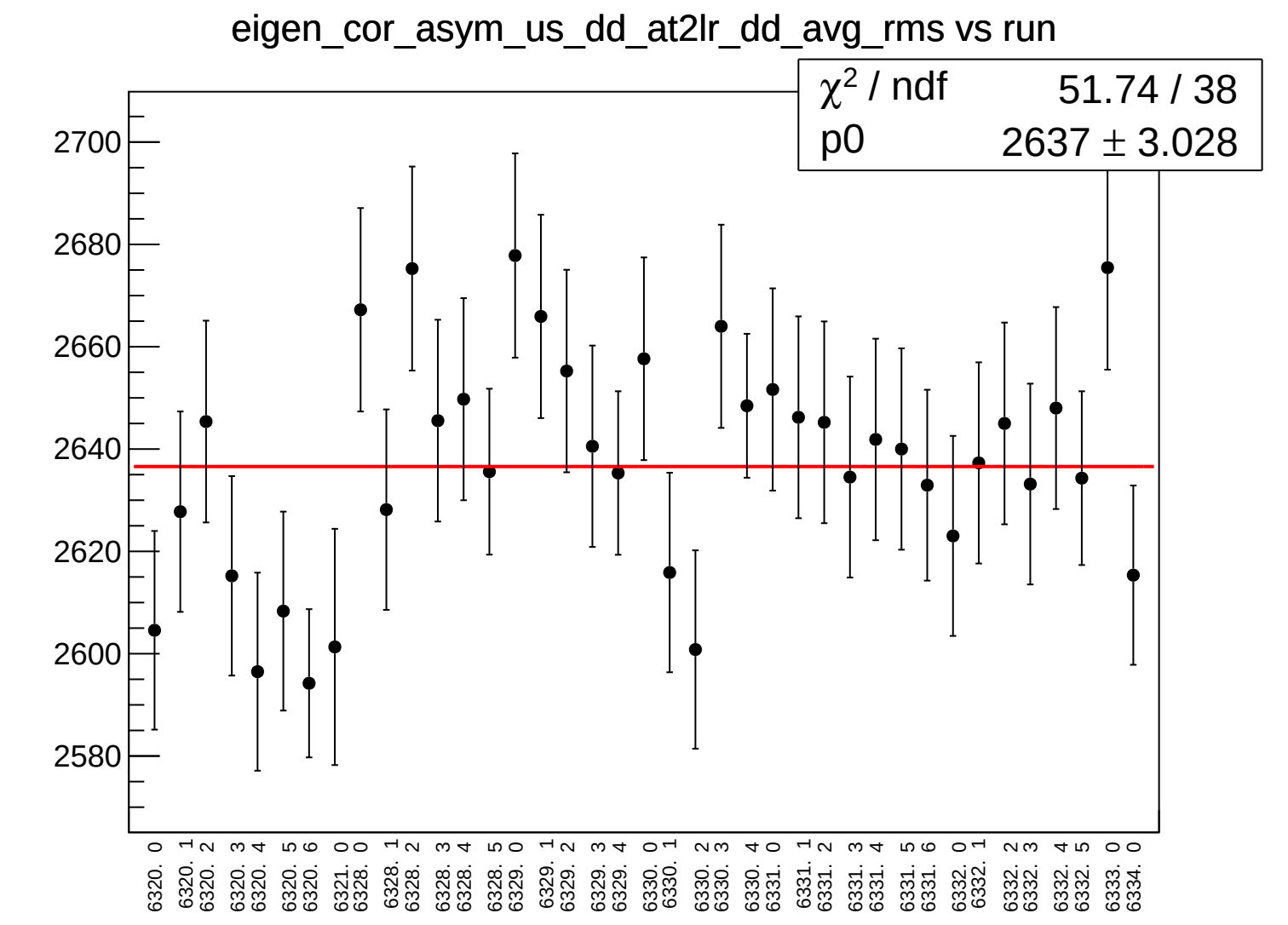

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 51.74 / 38
p0 2637 ± 3.028
2700
2680
2660
2640
2620
2600
2580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

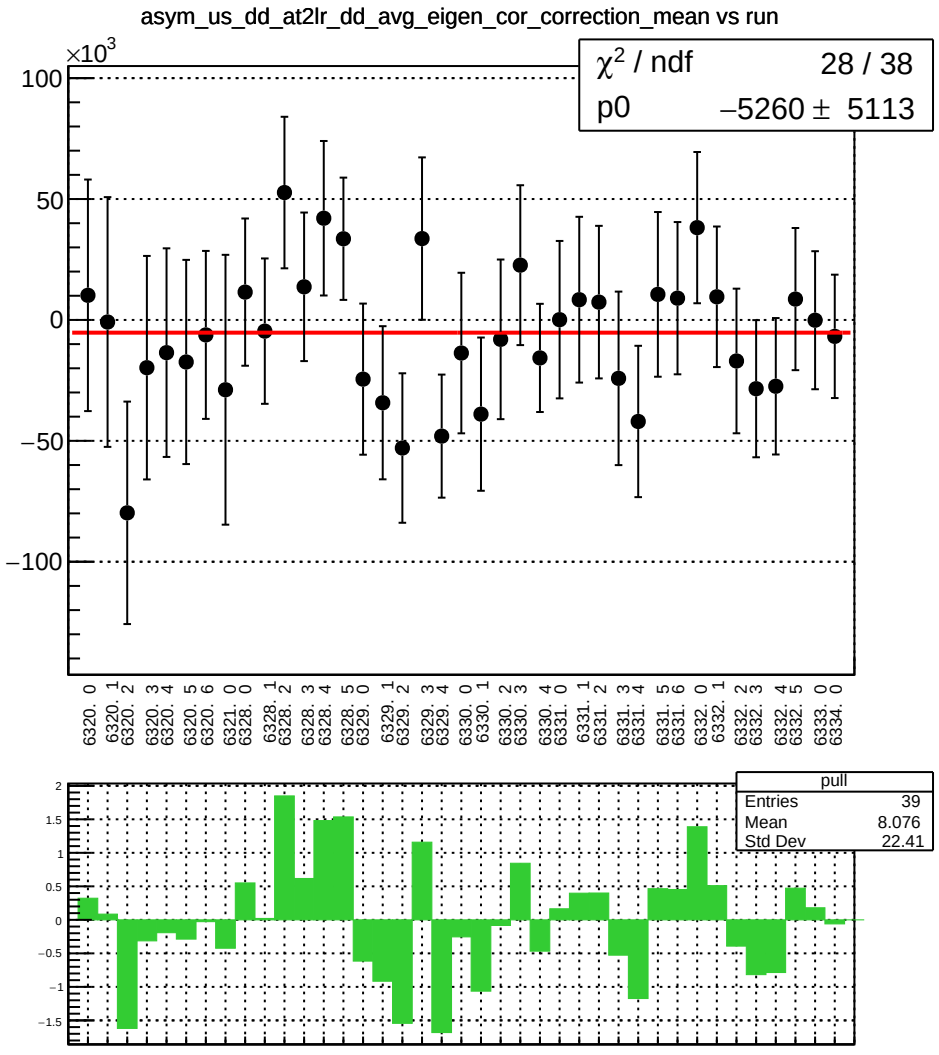

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 28 / 38
p0 −5260 ± 5113
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.076
Std Dev 22.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.008811
Std Dev 0.8473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

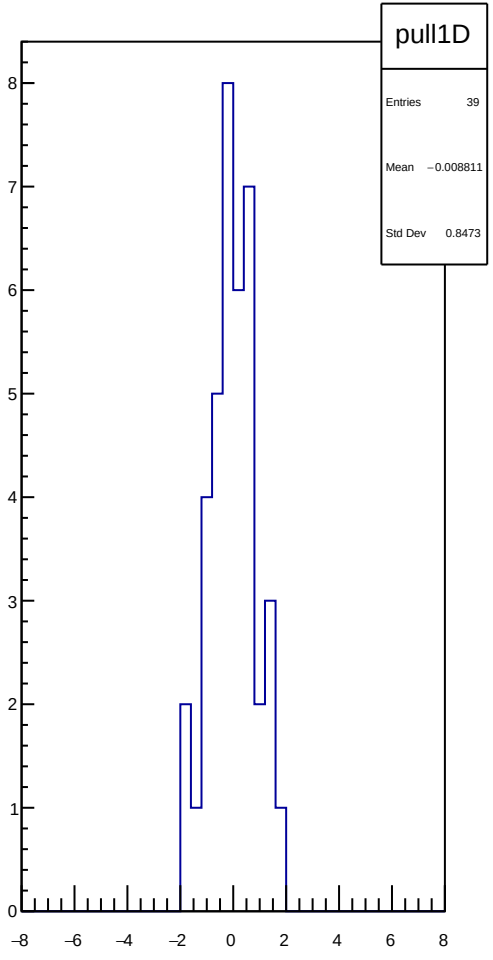

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 38
p0 3113 ± 3.615
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

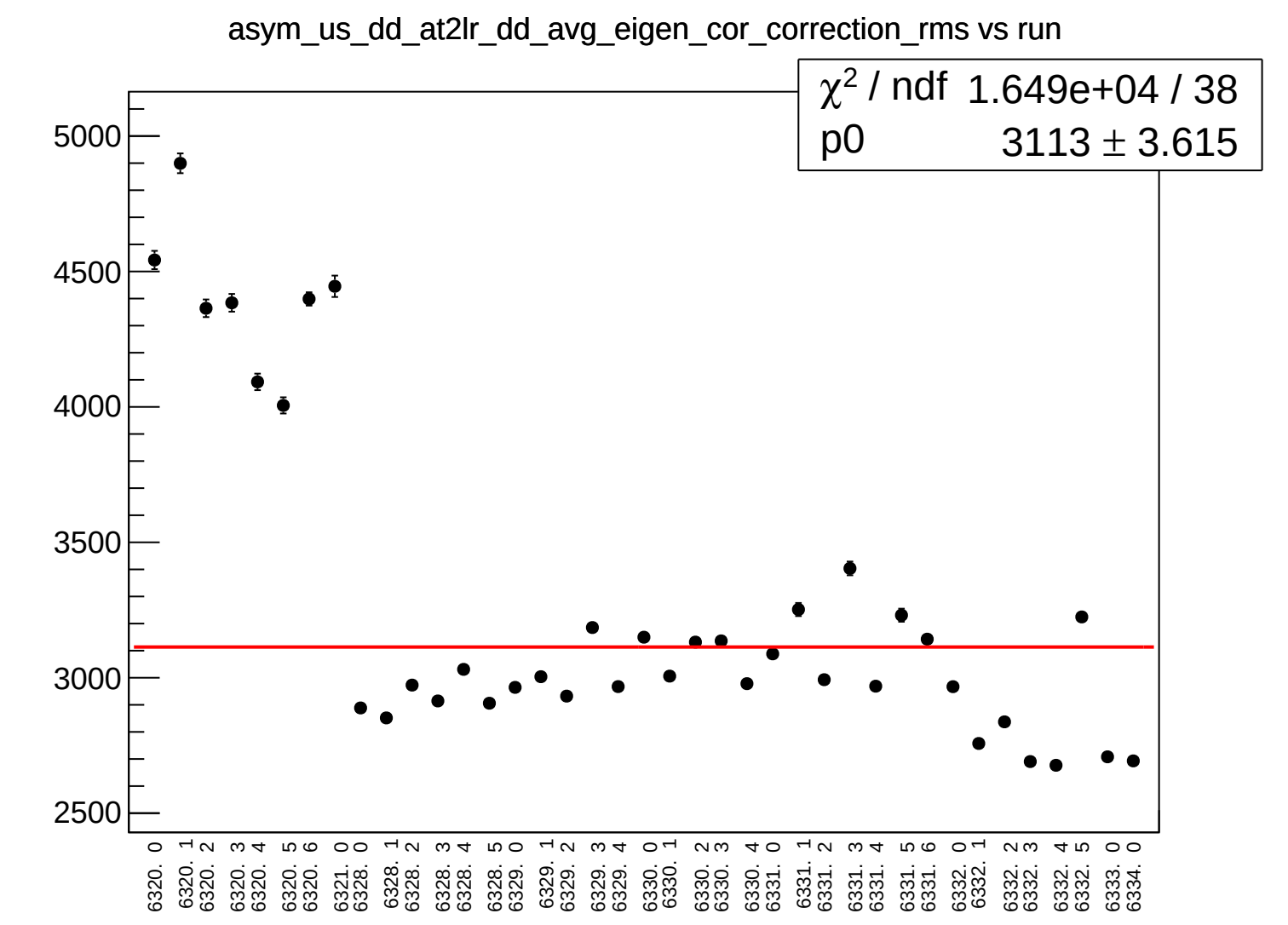

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 18.62 / 38
p0 −5593 ± 4283
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

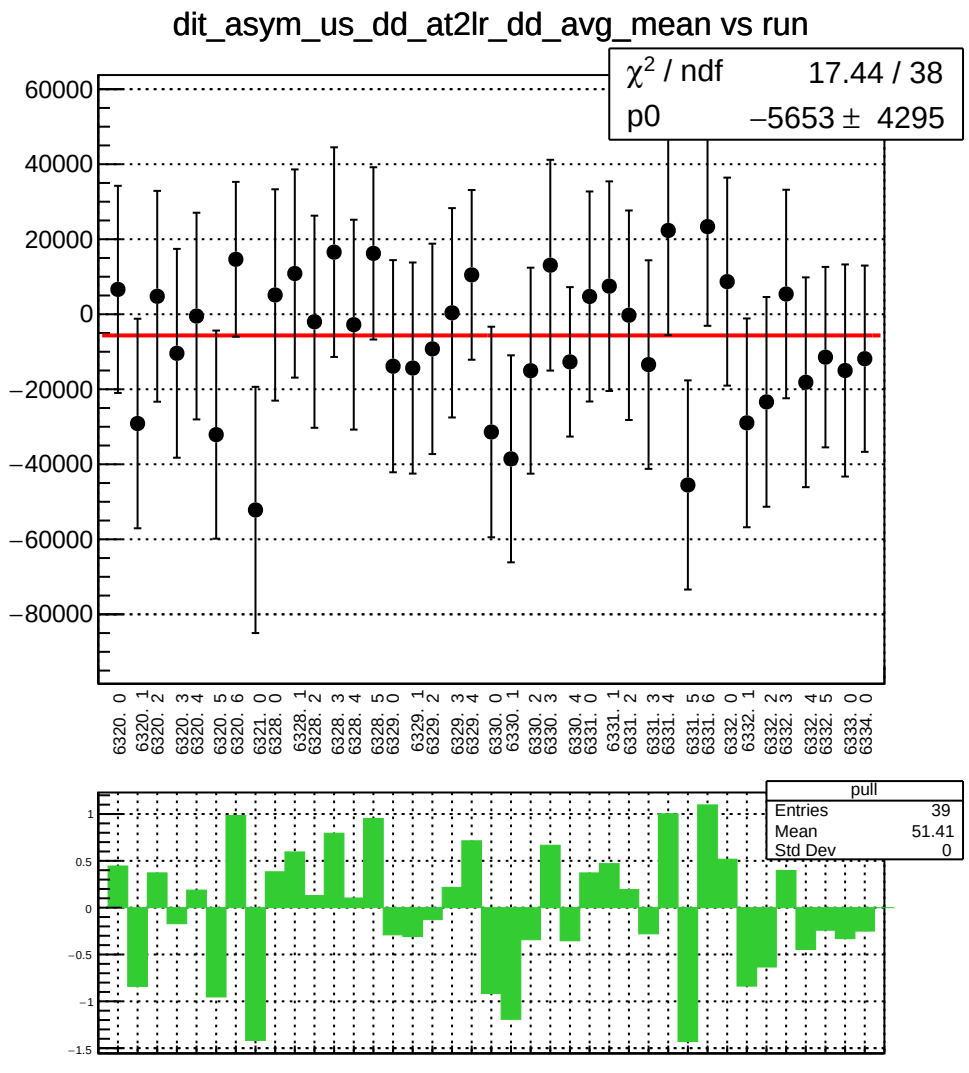

pull1D
Entries 39
Mean −0.02033
Std Dev 0.6907
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

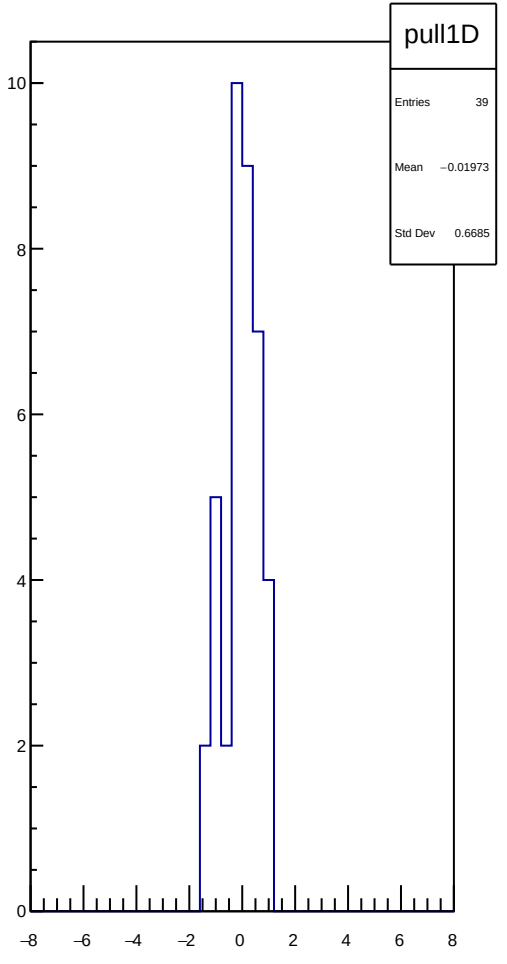

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 51.74 / 38
p0 2637 ± 3.028
2700
2680
2660
2640
2620
2600
2580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

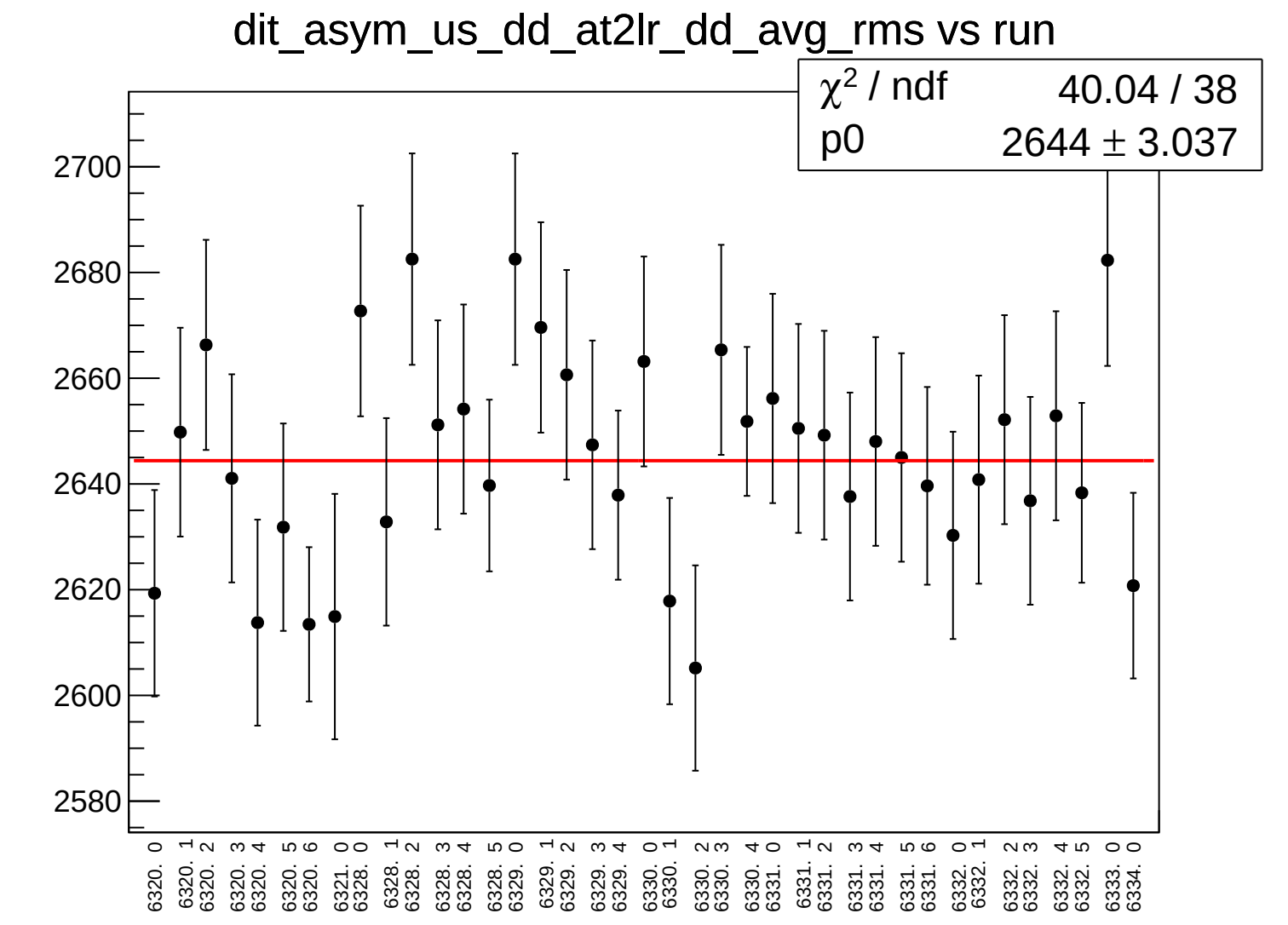

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28 / 38
p0 −5260 ± 5113
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.076
Std Dev 22.41
2
1.5
1
0.5
0
−0.5
−1
−1.5

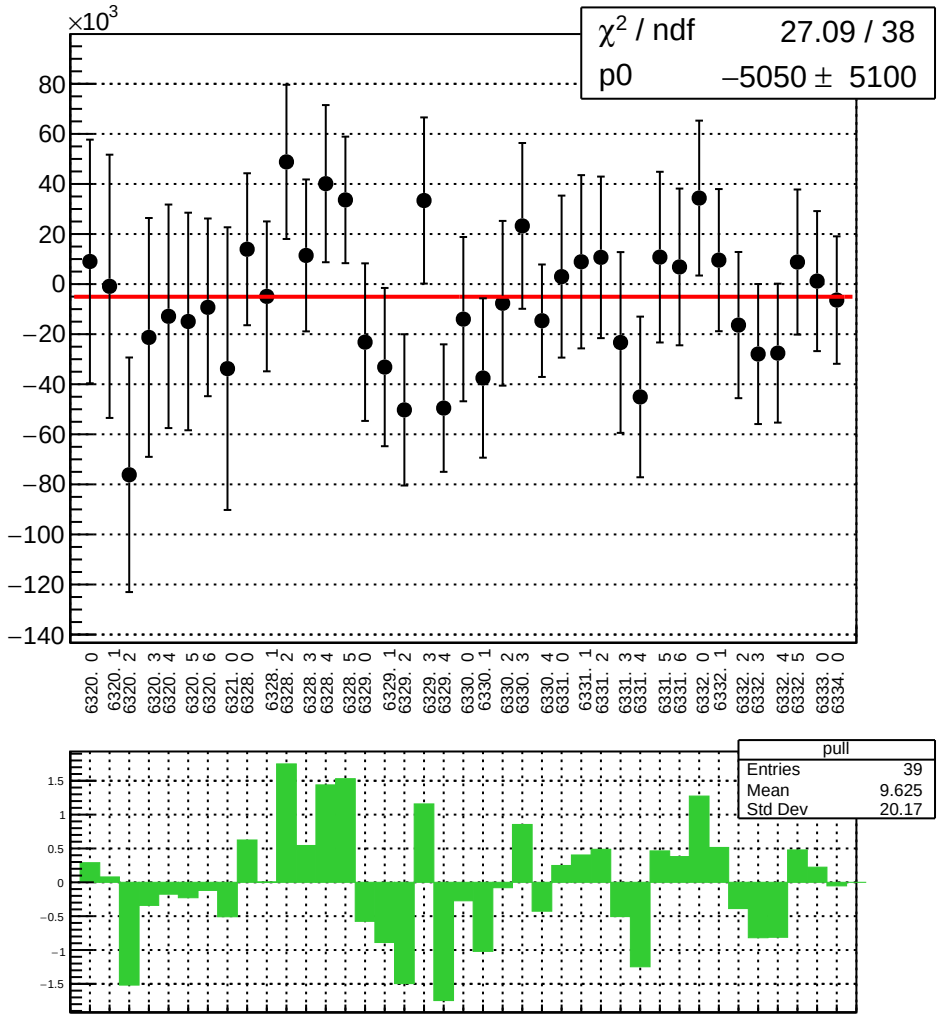

pull1D
Entries 39
Mean −0.008811
Std Dev 0.8473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

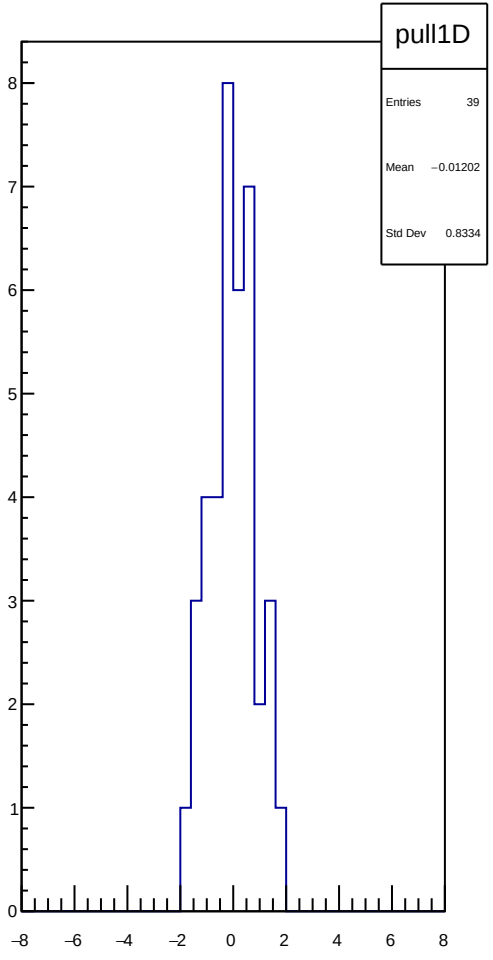

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 38
p0 3113 ± 3.615
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

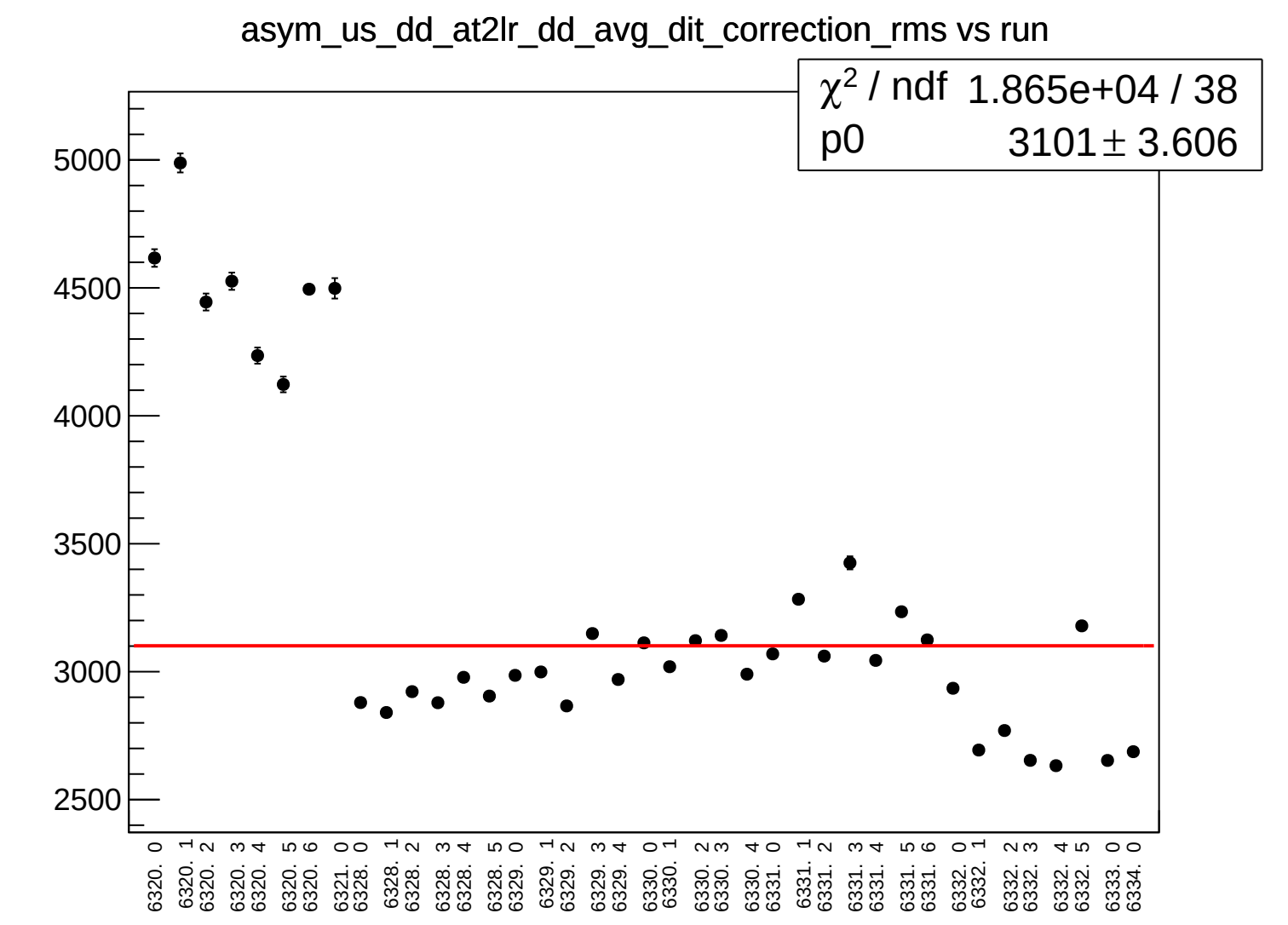

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 17.44 / 38
p0 −5653 ± 4295
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

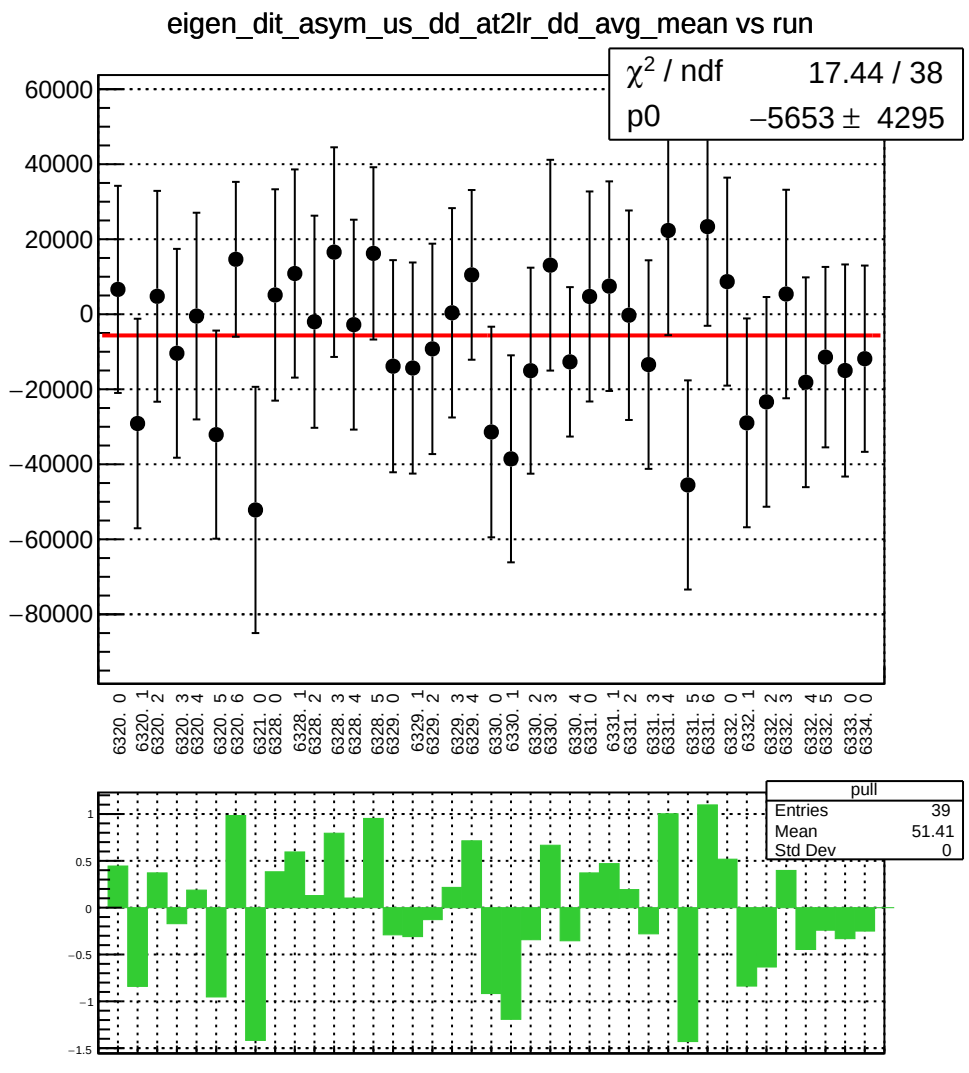

pull1D
Entries 39
Mean −0.01973
Std Dev 0.6685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

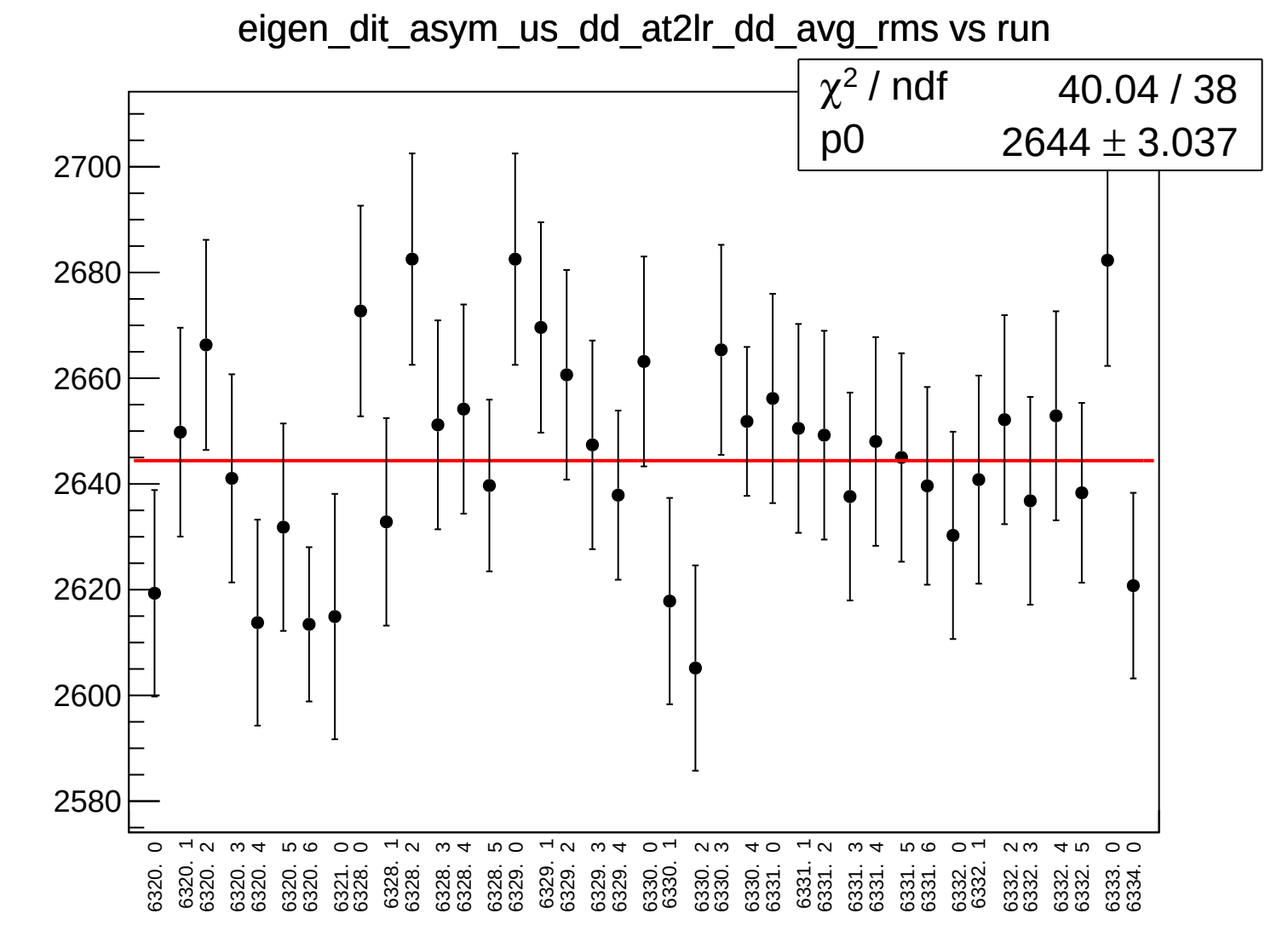

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 40.04 / 38
p0 2644 ± 3.037
2700
2680
2660
2640
2620
2600
2580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

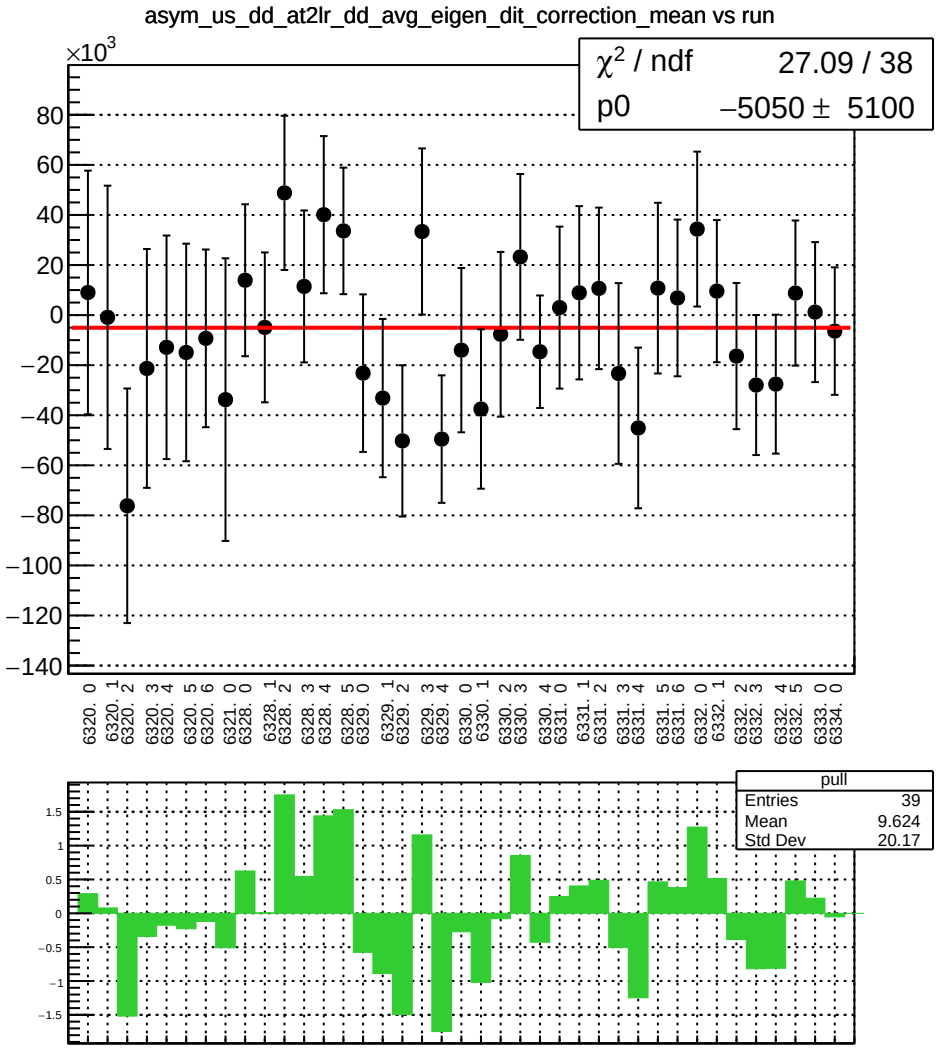

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 27.09 / 38
p0 −5050 ± 5100
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 9.625
Std Dev 20.17
1.5
1
0.5
0
−0.5
−1
−1.5

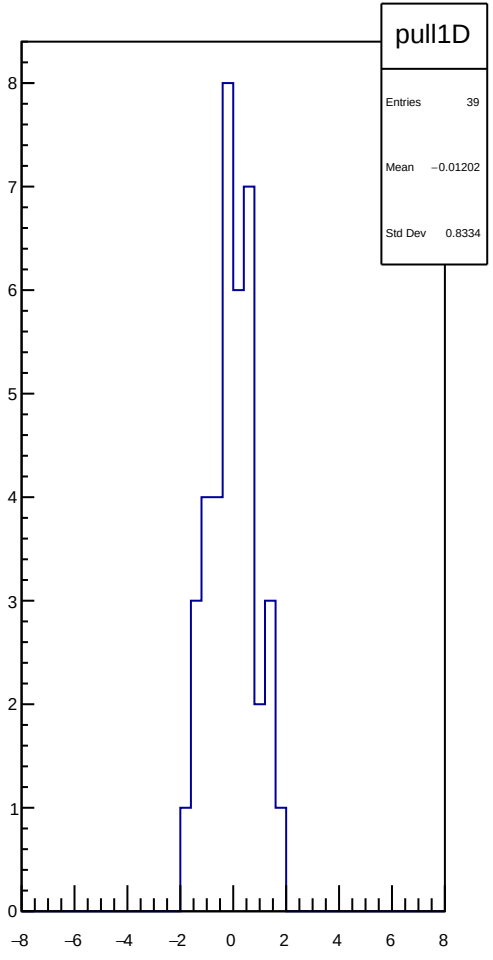

pull1D
Entries 39
Mean −0.01202
Std Dev 0.8334
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

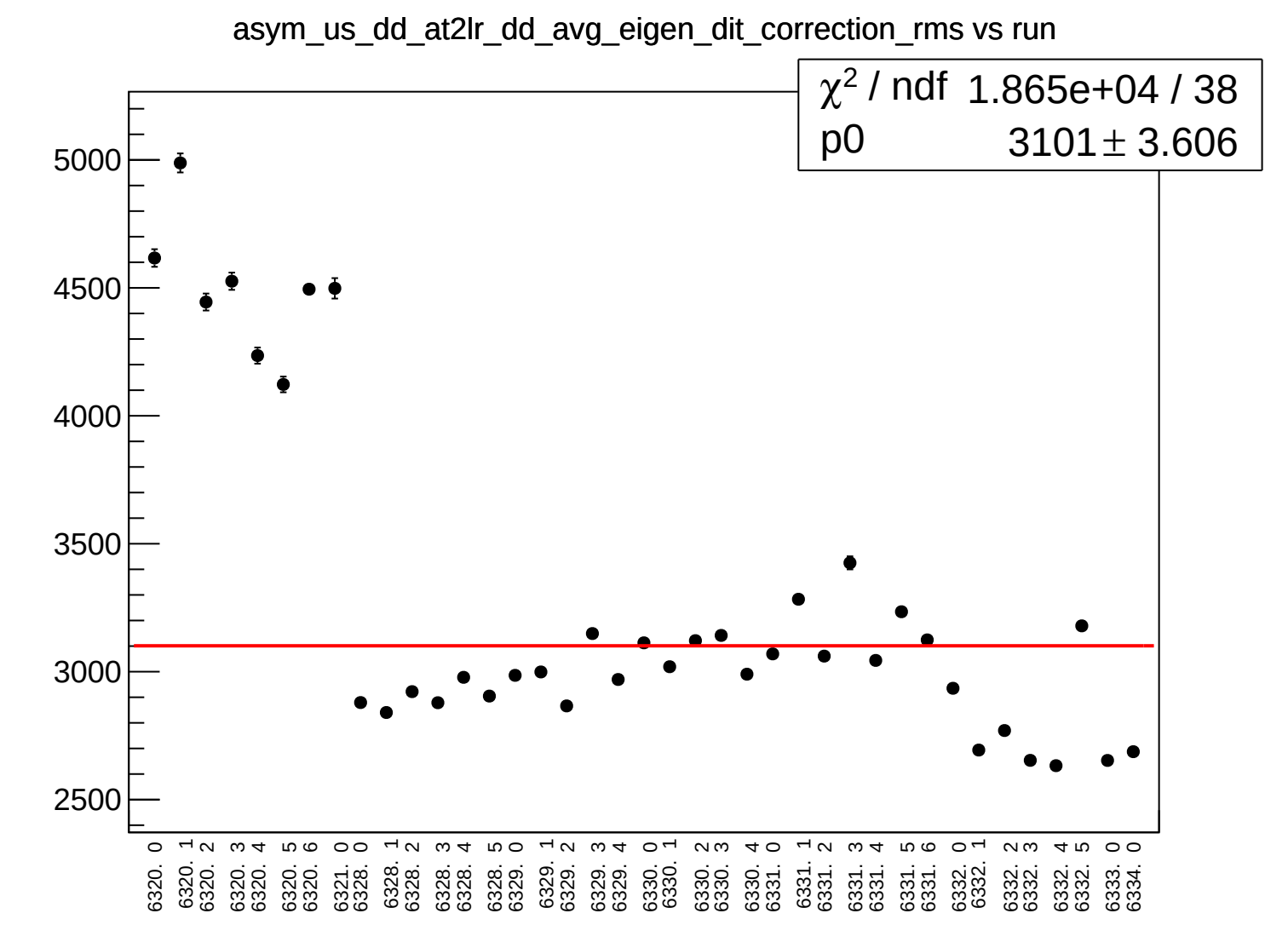

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.865e+04 / 38
p0 3101 ± 3.606
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

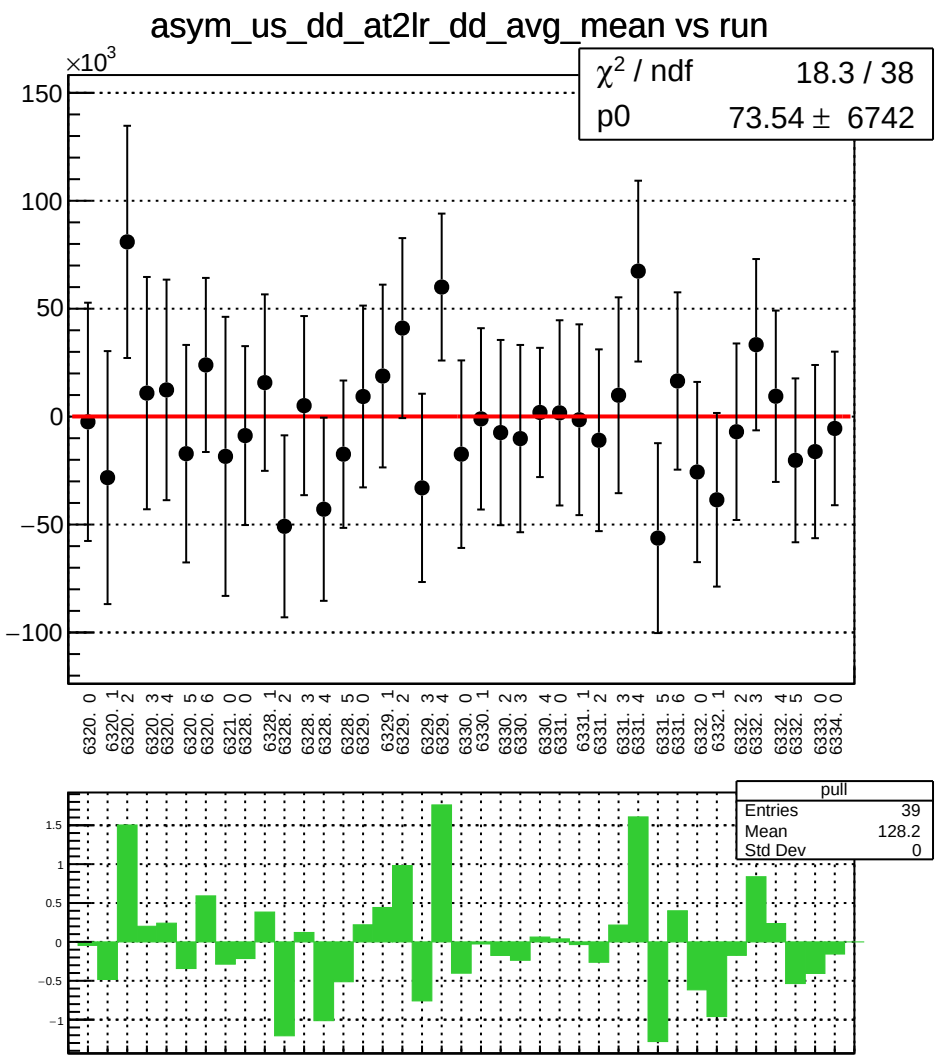

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 17.44 / 38
p0 −5653 ± 4295
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01973
Std Dev 0.6685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

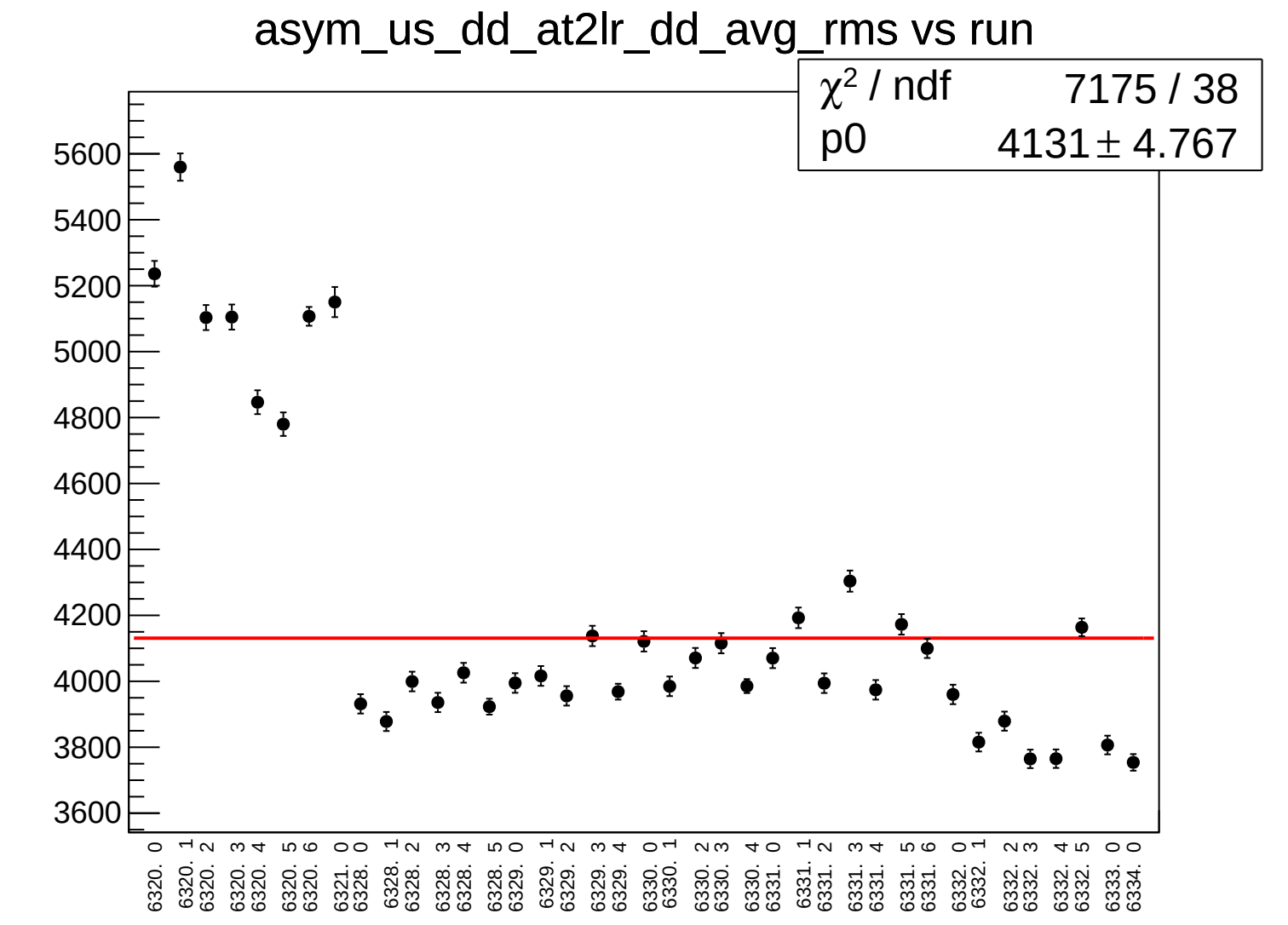

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 40.04 / 38
p0 2644 ± 3.037
2700
2680
2660
2640
2620
2600
2580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

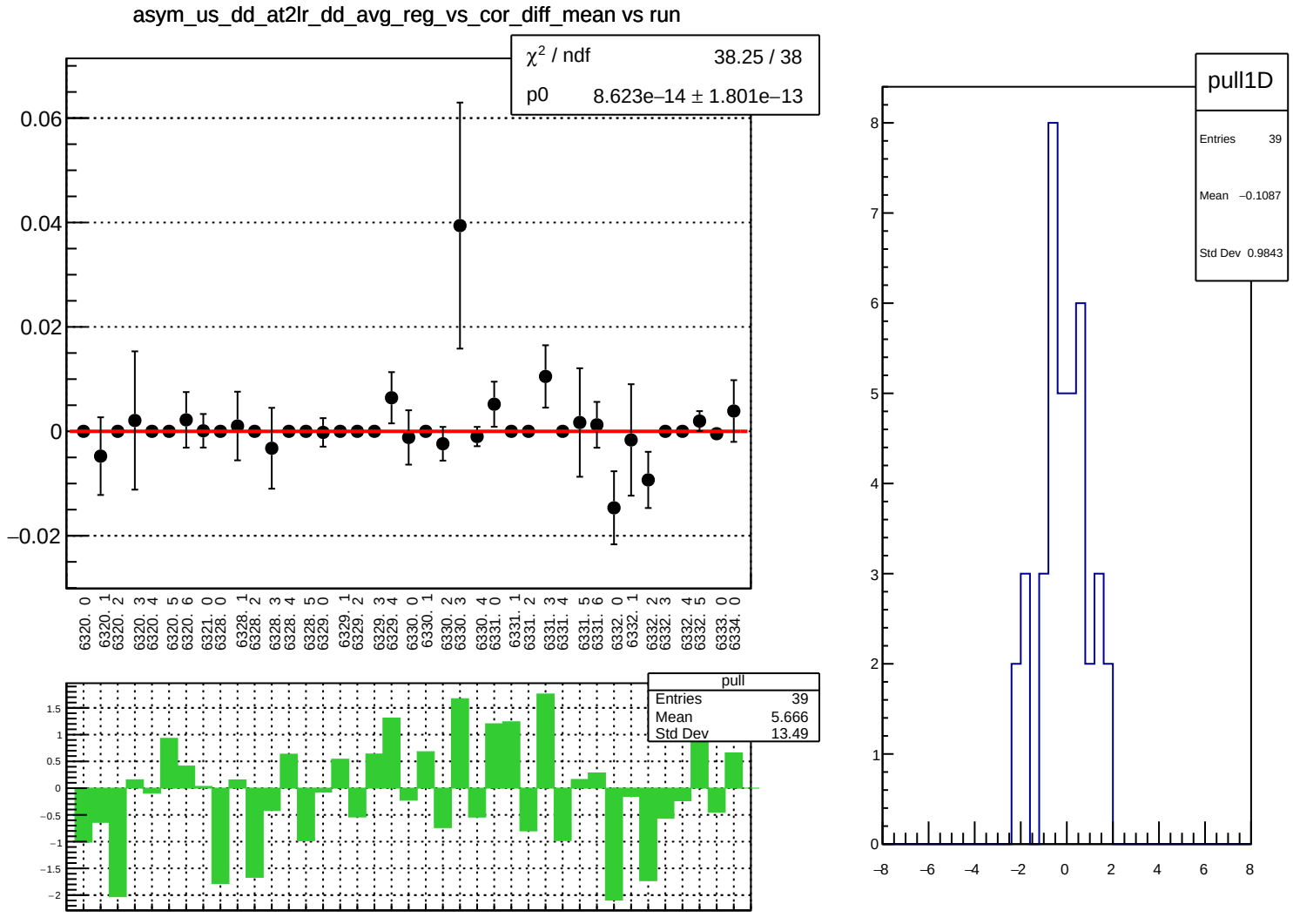

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 27.09 / 38
p0 −5050 ± 5100
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 9.624
Std Dev 20.17
1.5
1
0.5
0
−0.5
−1
−1.5

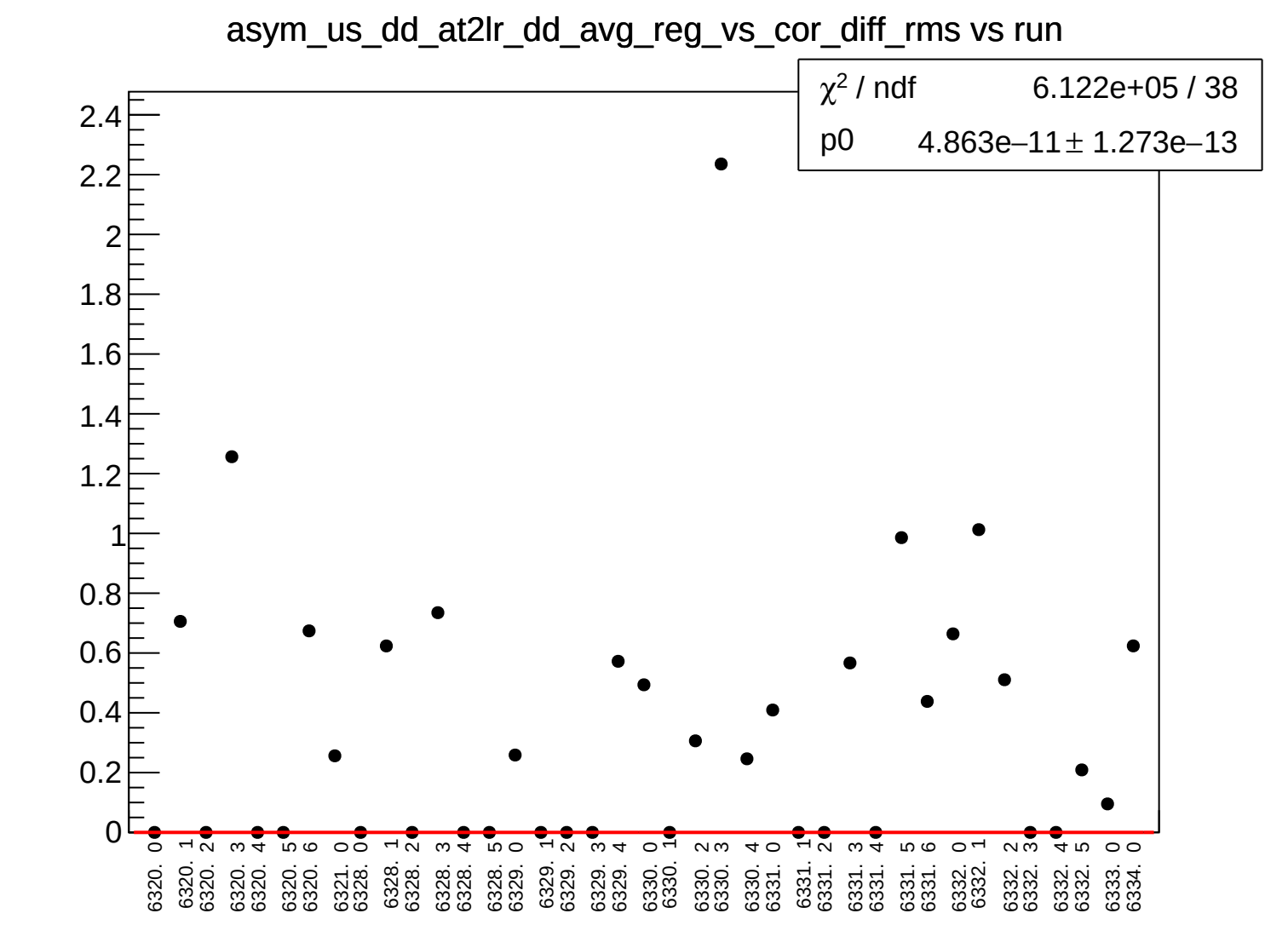

pull1D
Entries 39
Mean −0.01202
Std Dev 0.8334
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

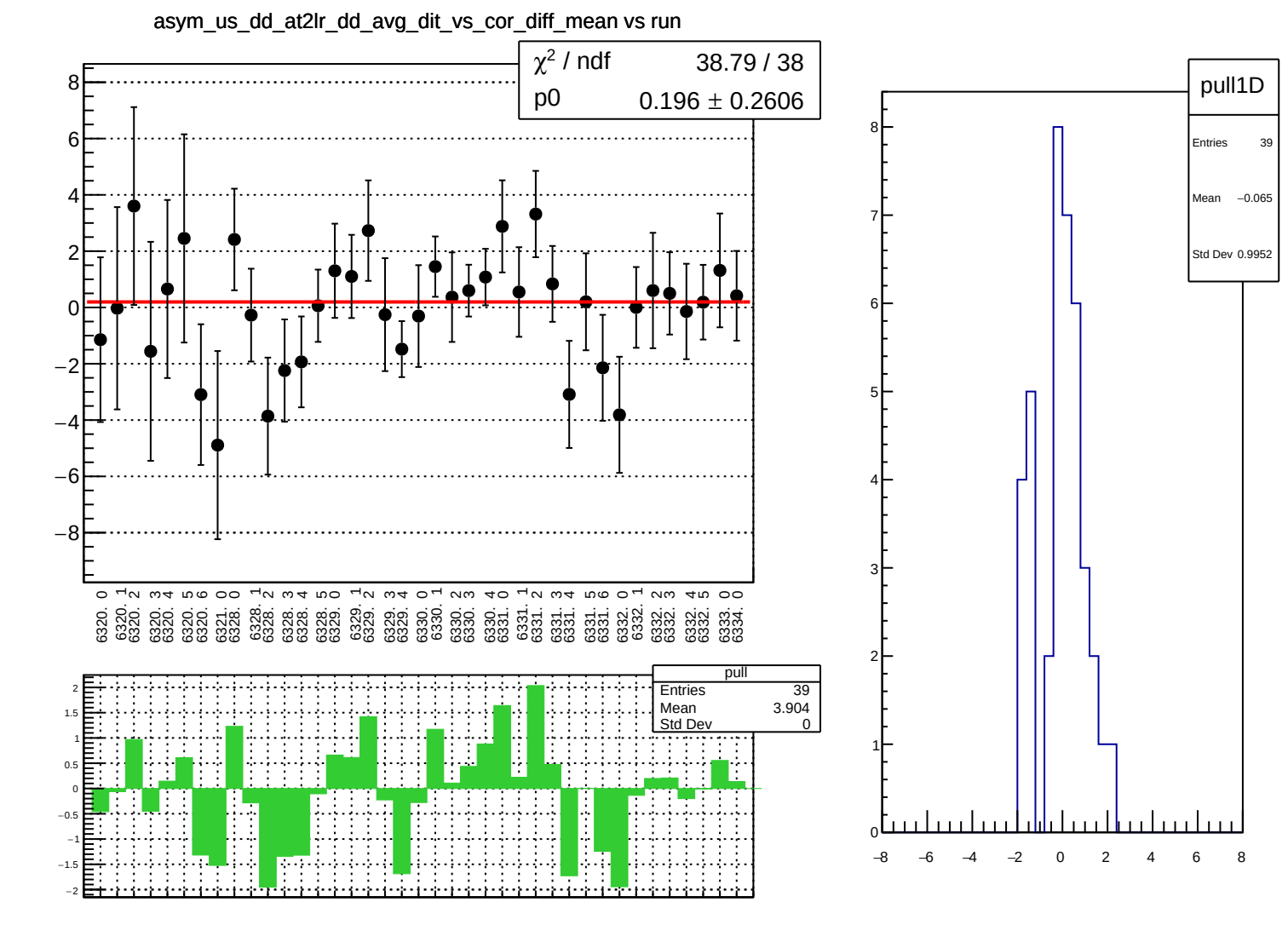

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.865e+04 / 38
p0 3101 ± 3.606
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

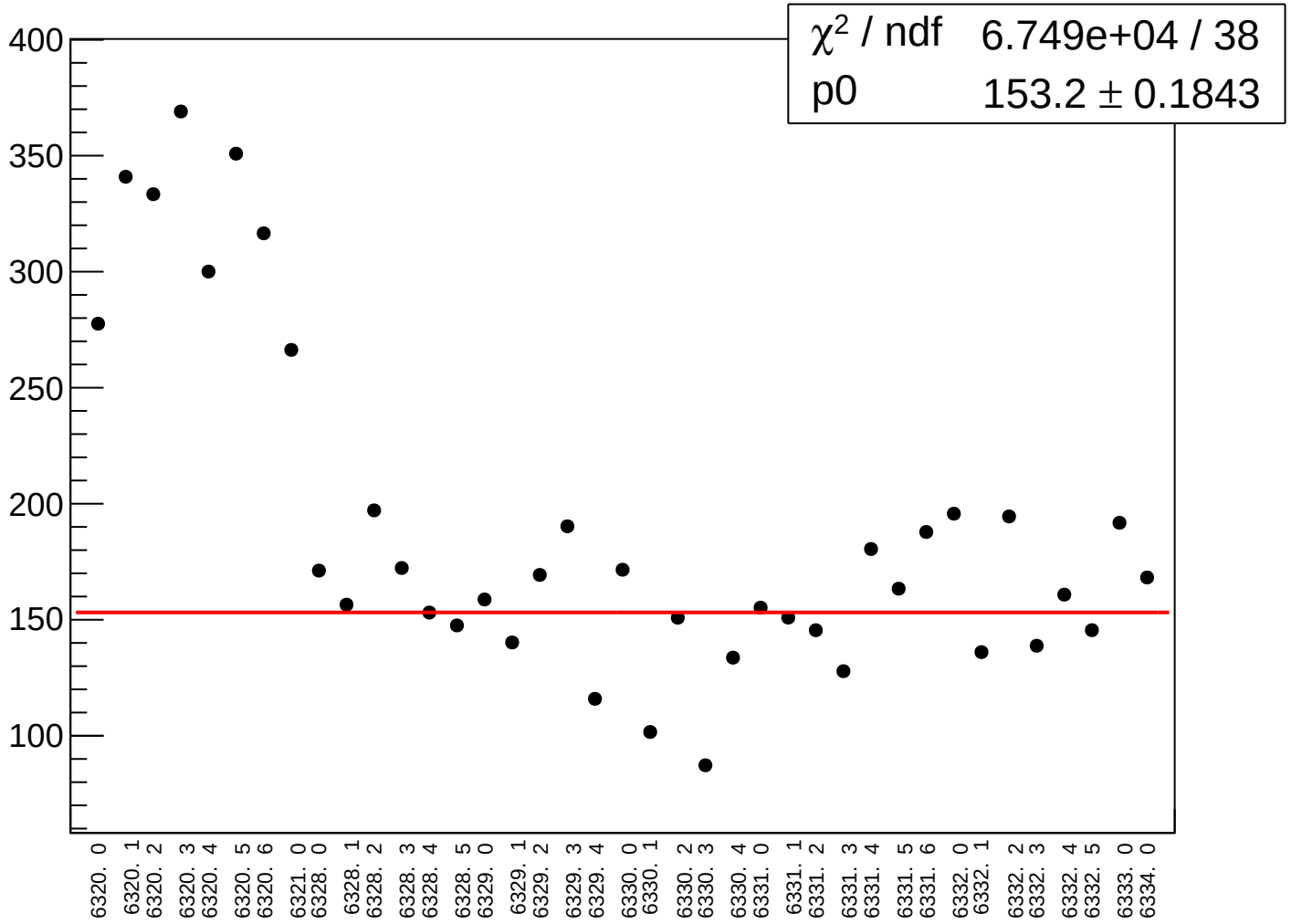

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 18.3 / 38
p0 73.54 ± 6742
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 128.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.007073
Std Dev 0.685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

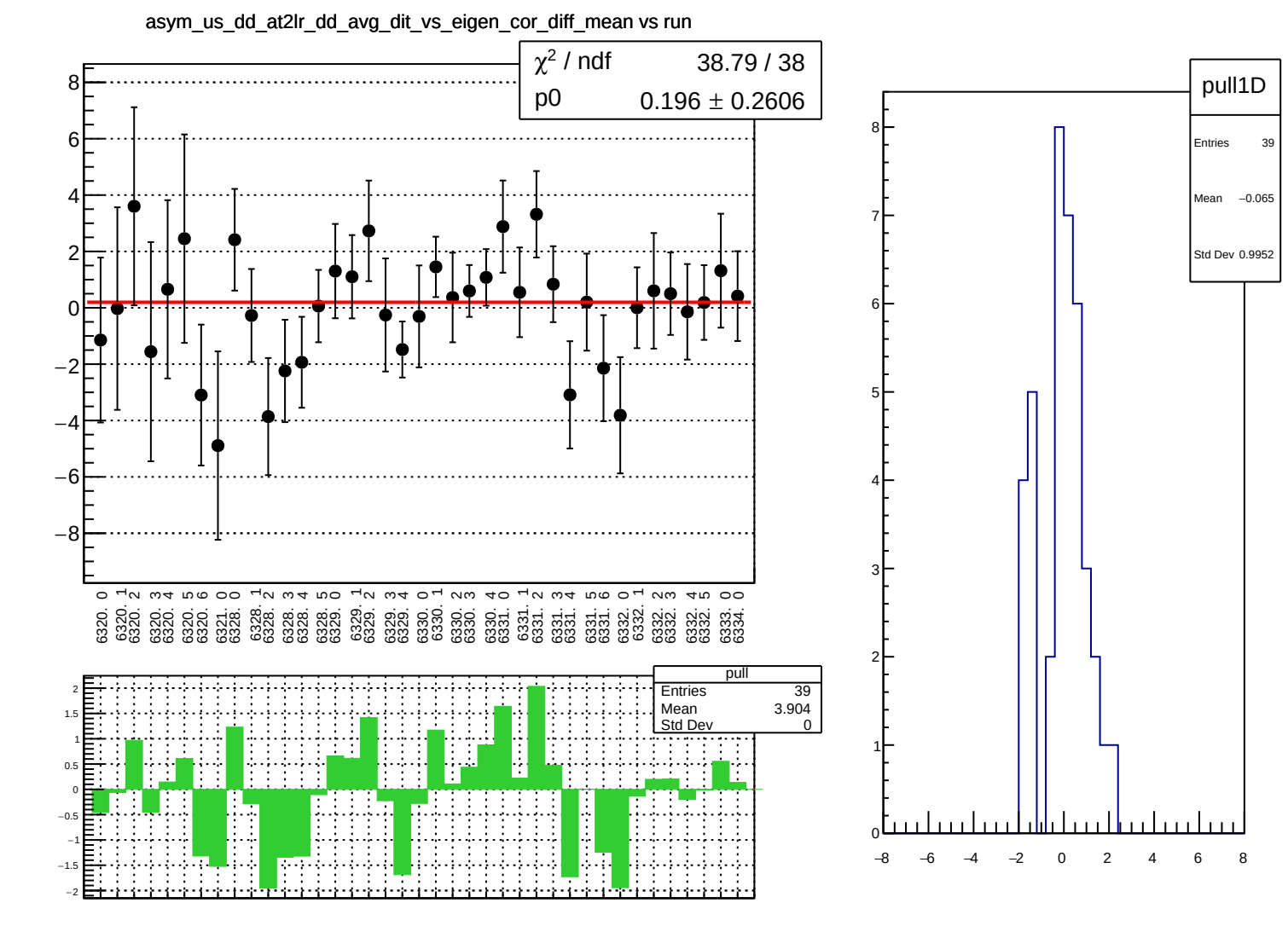

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 7175 / 38
p0 4131 ± 4.767
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

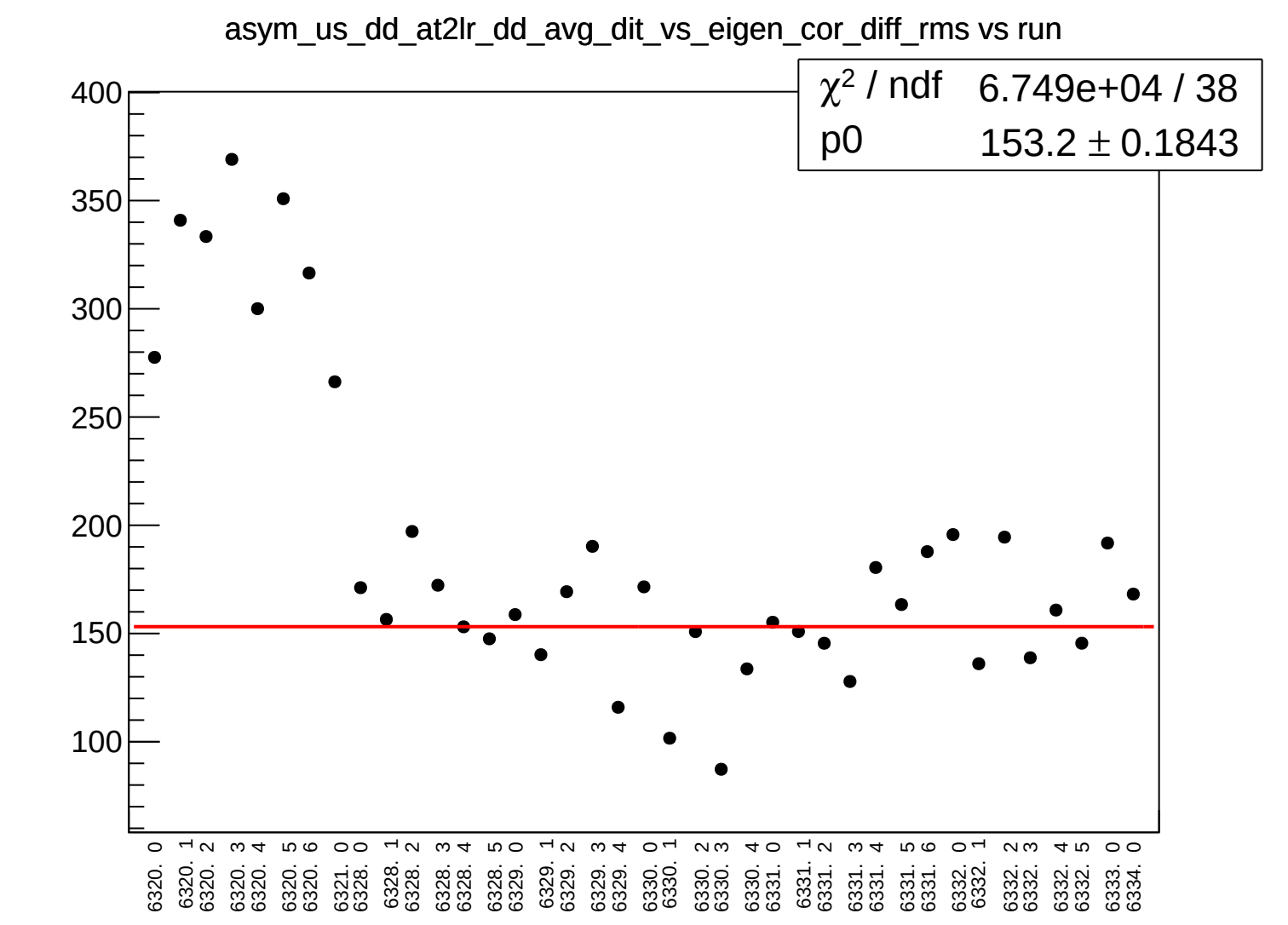

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 38.25 / 38
p0 8.623e−14 ± 1.801e−13
0.06
0.04
0.02
0
−0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.666
Std Dev 13.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1087
Std Dev 0.9843
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

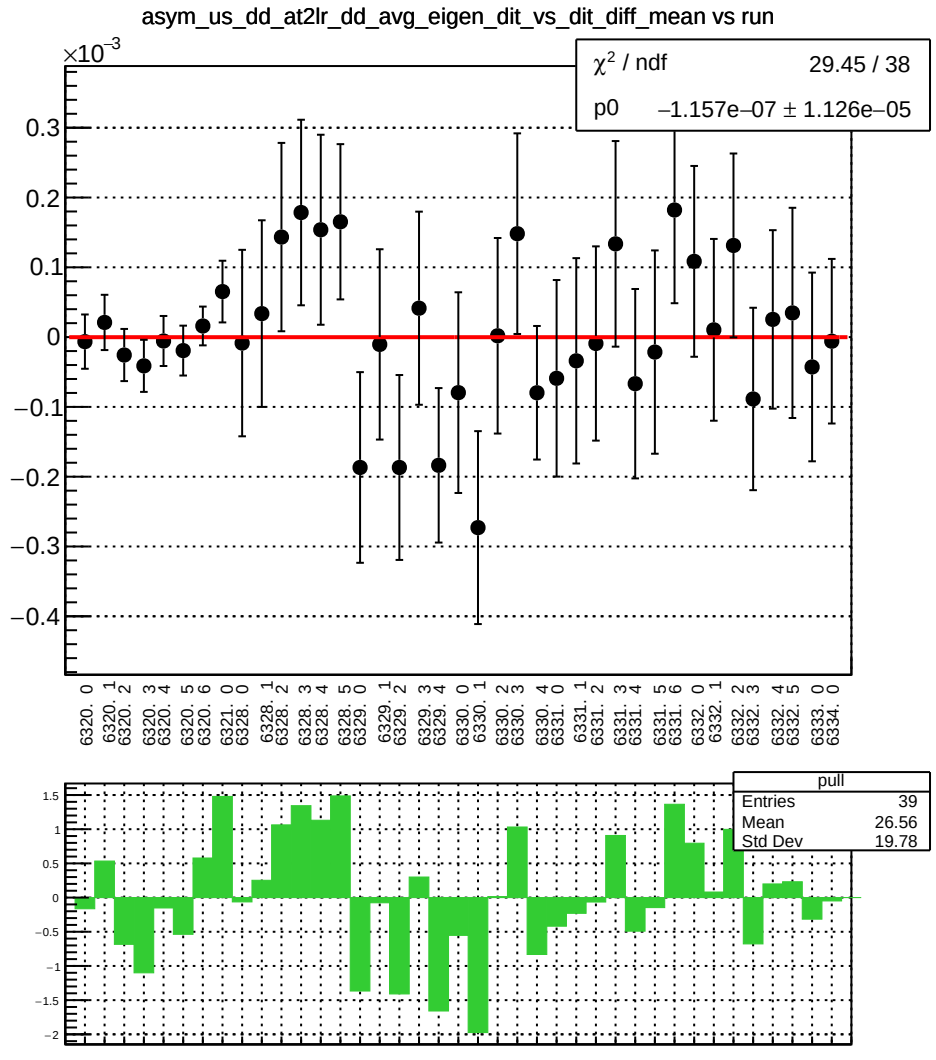

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.122e+05 / 38
p0 4.863e−11 ± 1.273e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

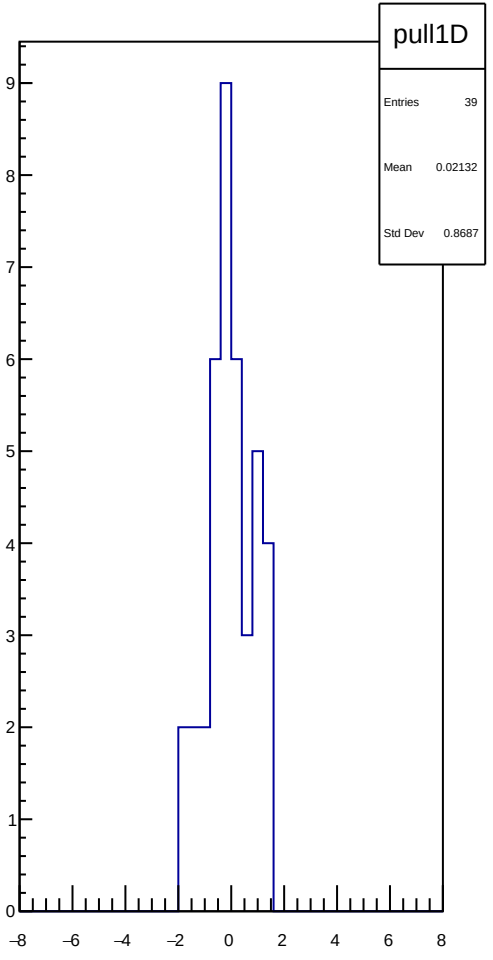

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.79 / 38
p0 0.196 ± 0.2606
pull
Entries 39
Mean 3.904
Std Dev 0
pull1D
Entries 39
Mean −0.065
Std Dev 0.9952

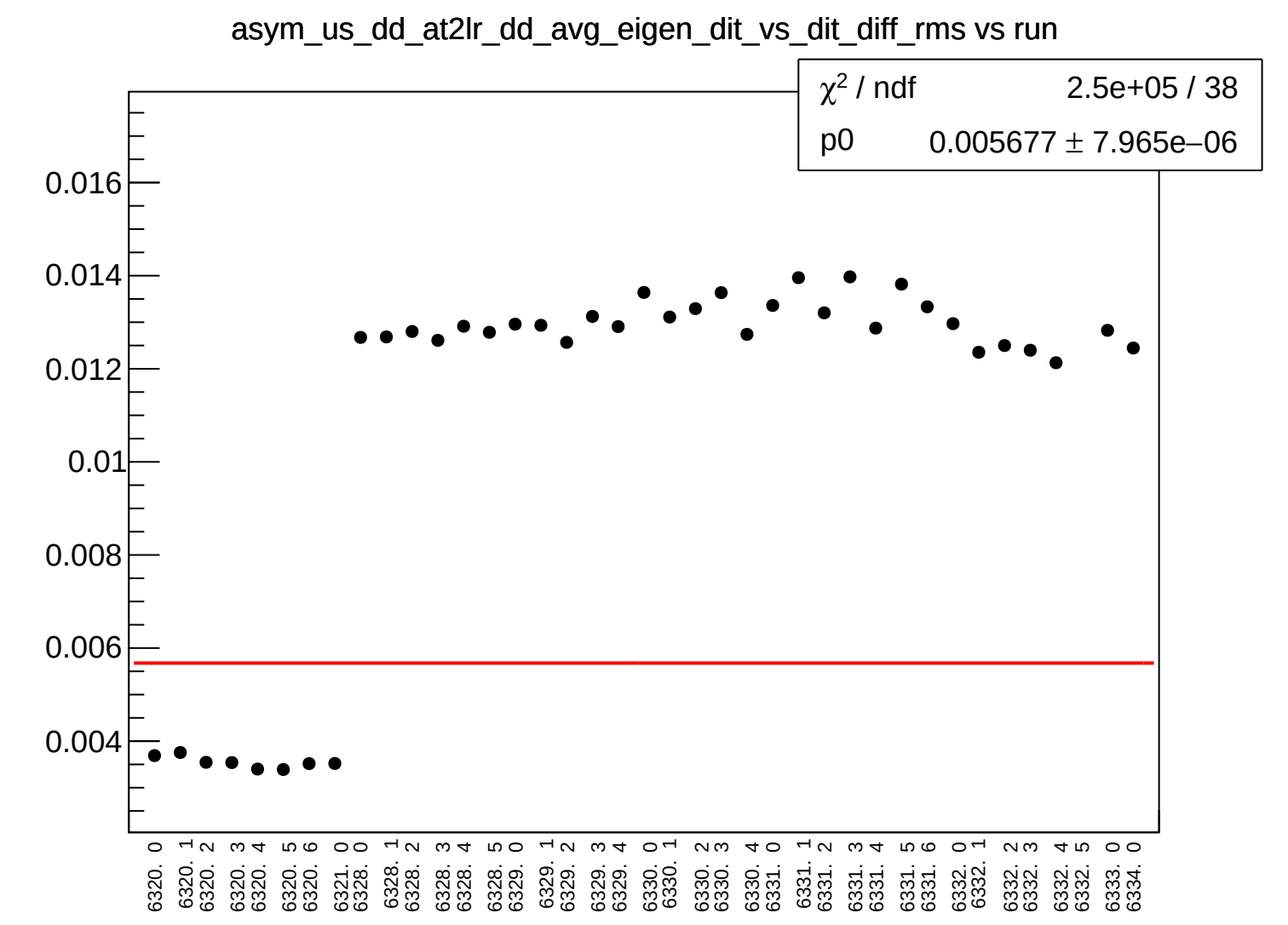

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.749e+04 / 38
p0 153.2 ± 0.1843
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

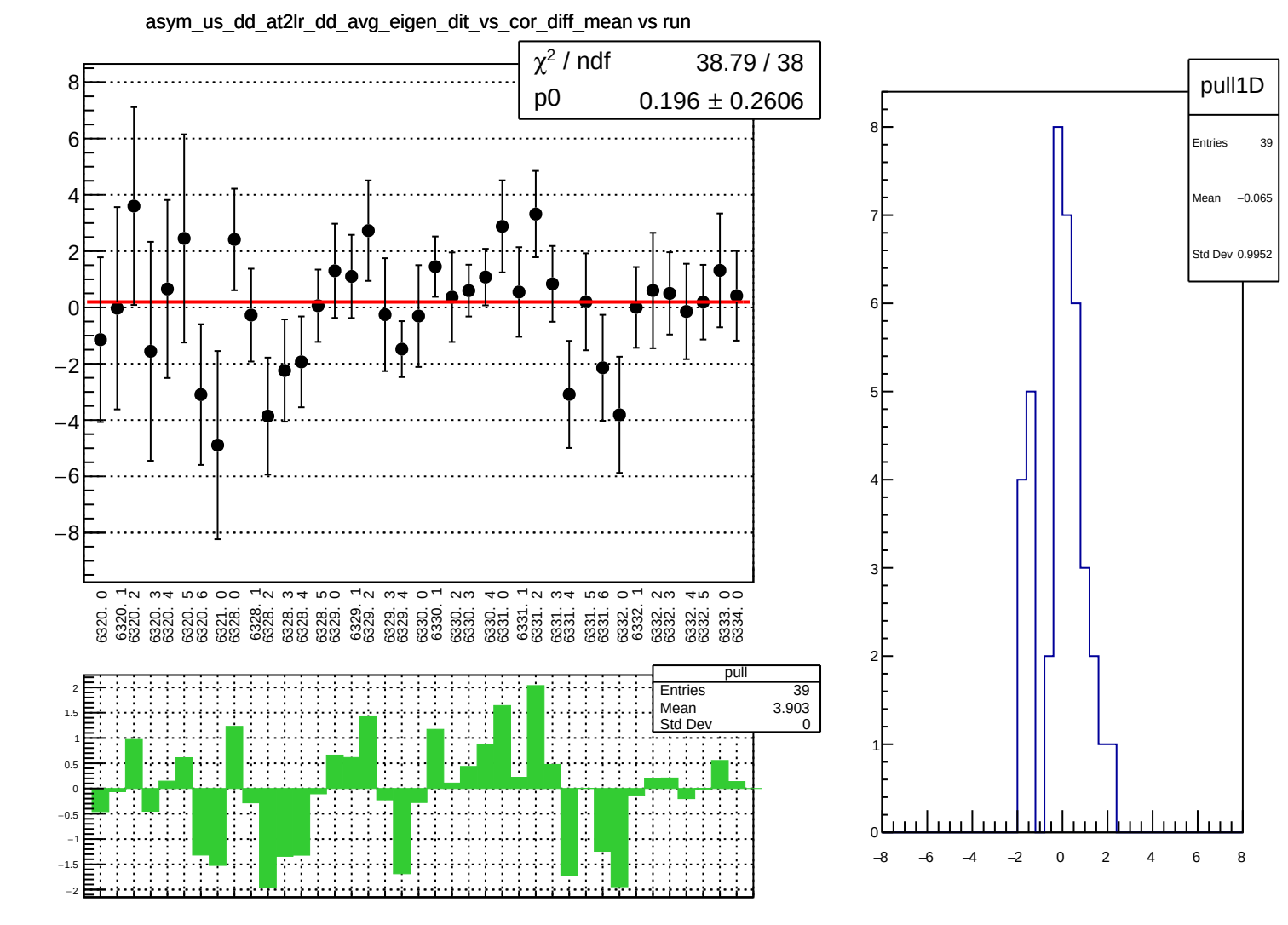

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.79 / 38
p0 0.196 ± 0.2606
pull
Entries 39
Mean 3.904
Std Dev 0
pull1D
Entries 39
Mean −0.065
Std Dev 0.9952

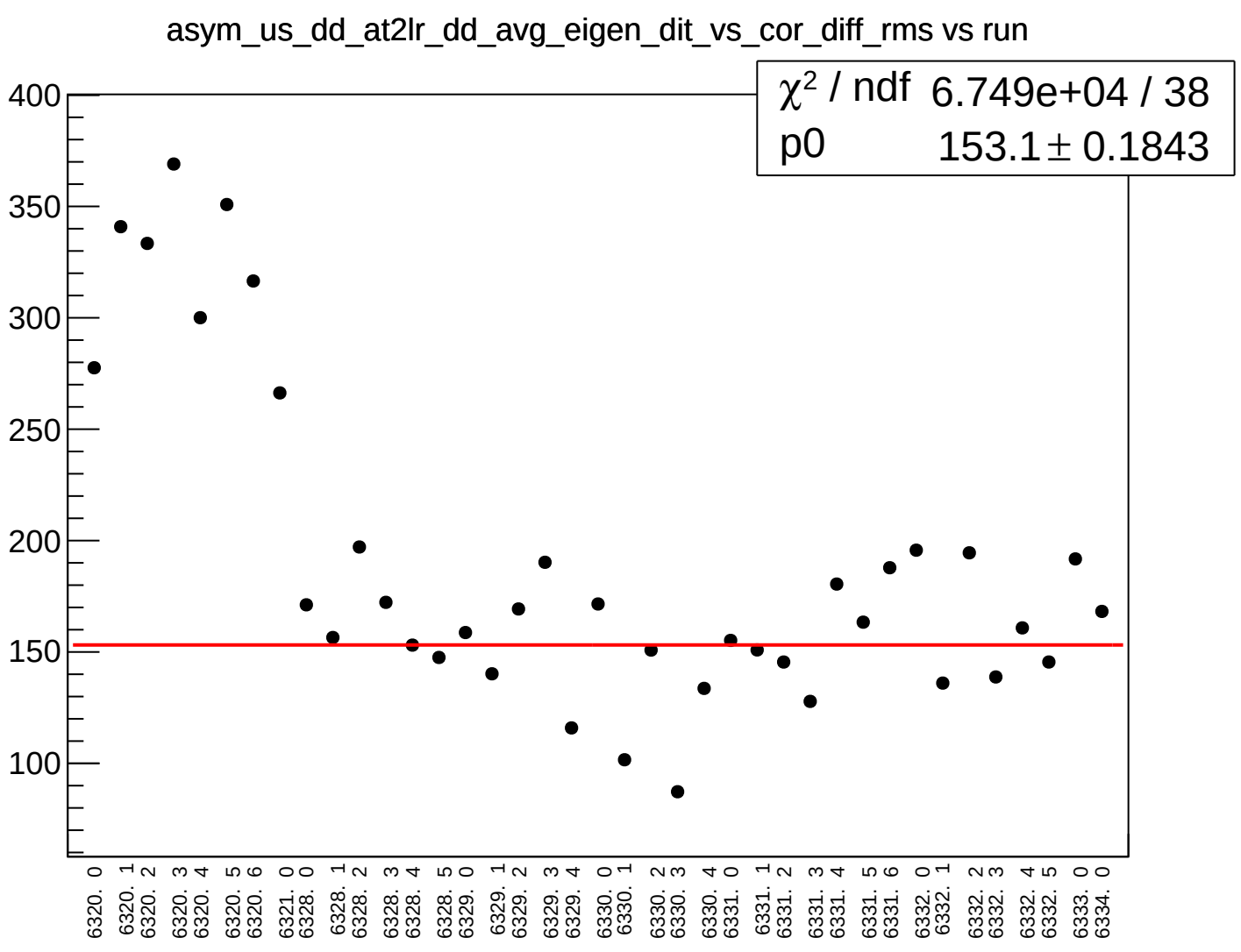

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.749e+04 / 38
p0 153.2 ± 0.1843
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

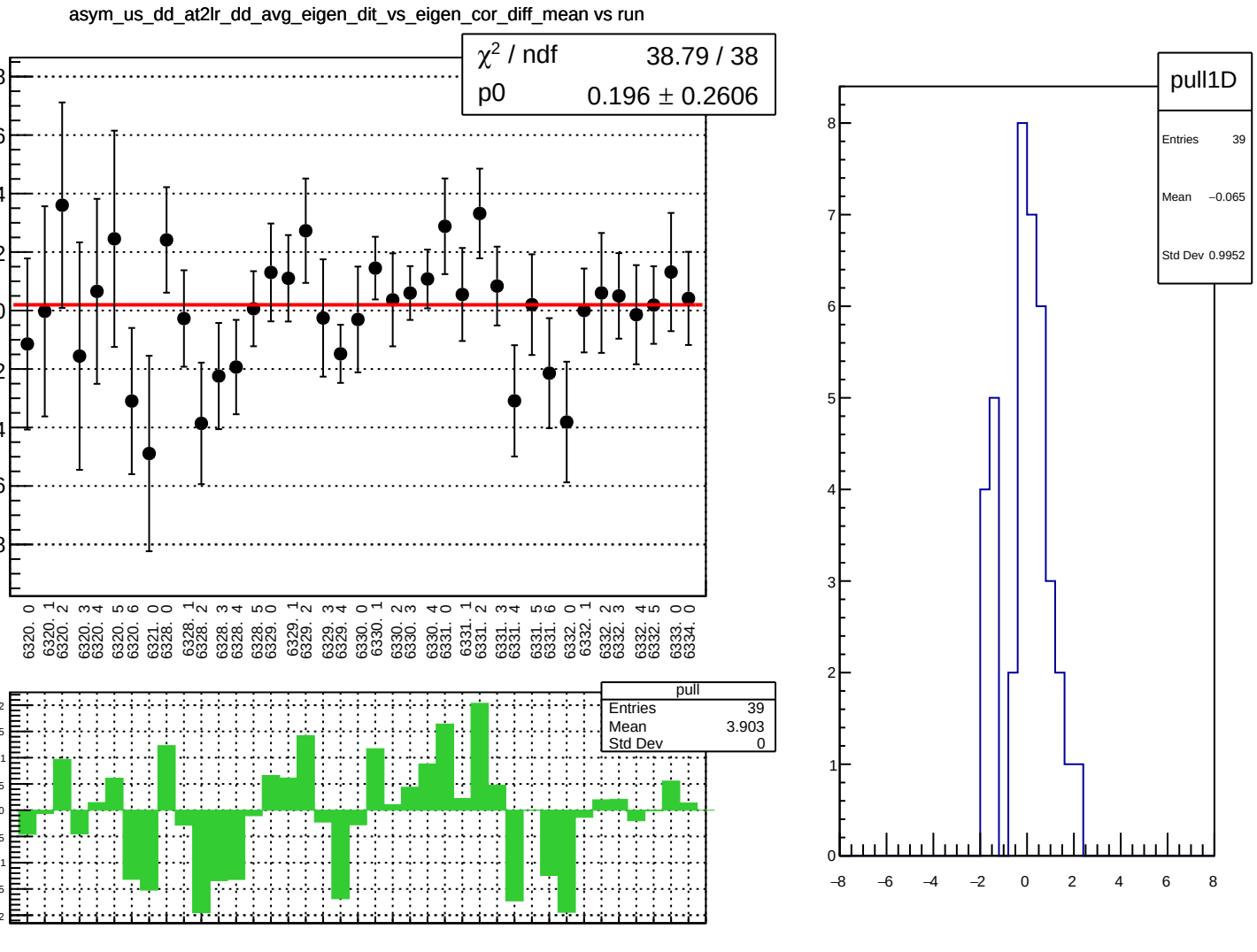

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.45 / 38
p0 −1.157e−07 ± 1.126e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.56
Std Dev 19.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2

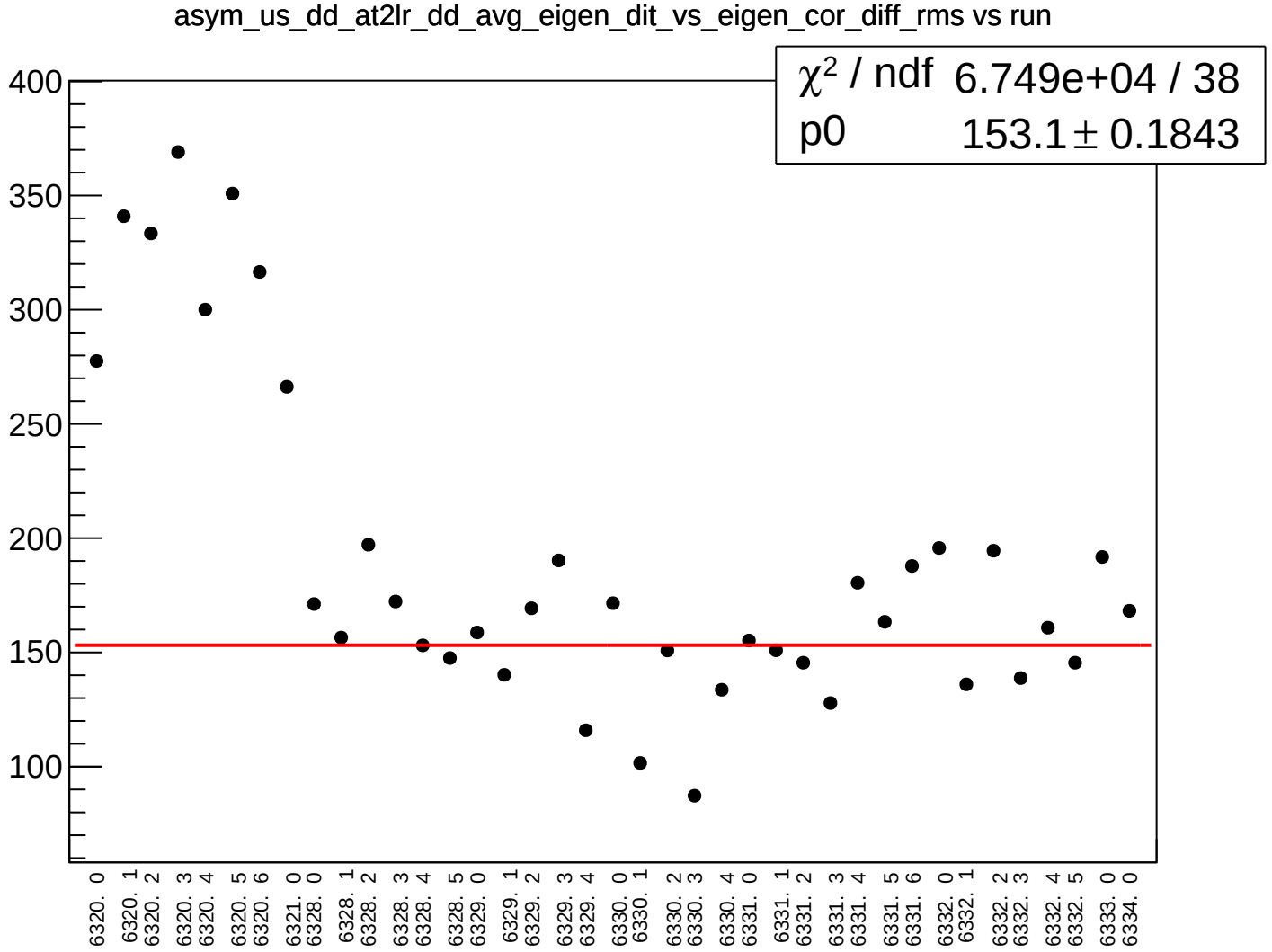

pull1D
Entries 39
Mean 0.02132
Std Dev 0.8687
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

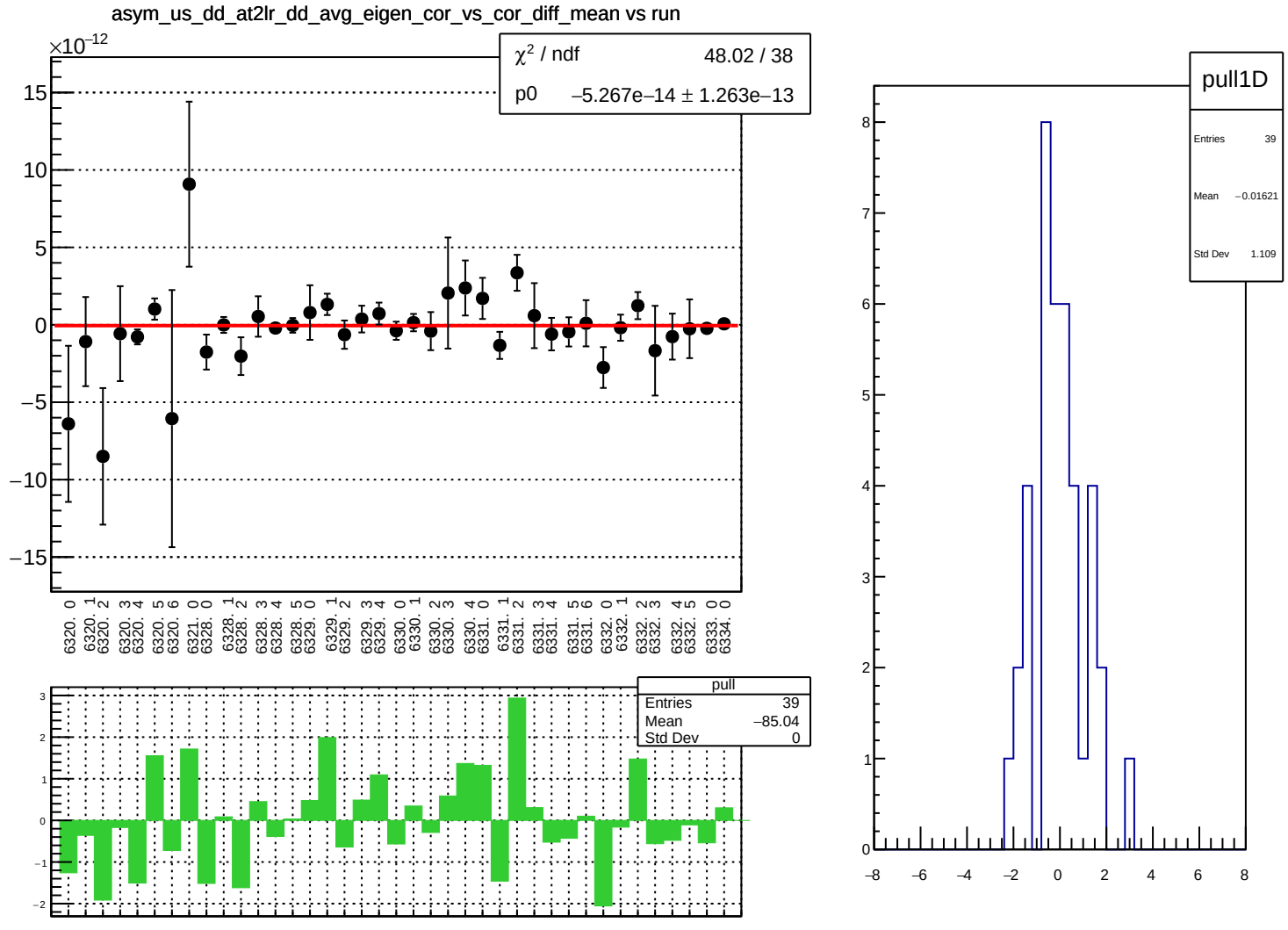

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.5e+05 / 38
p0 0.005677 ± 7.965e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

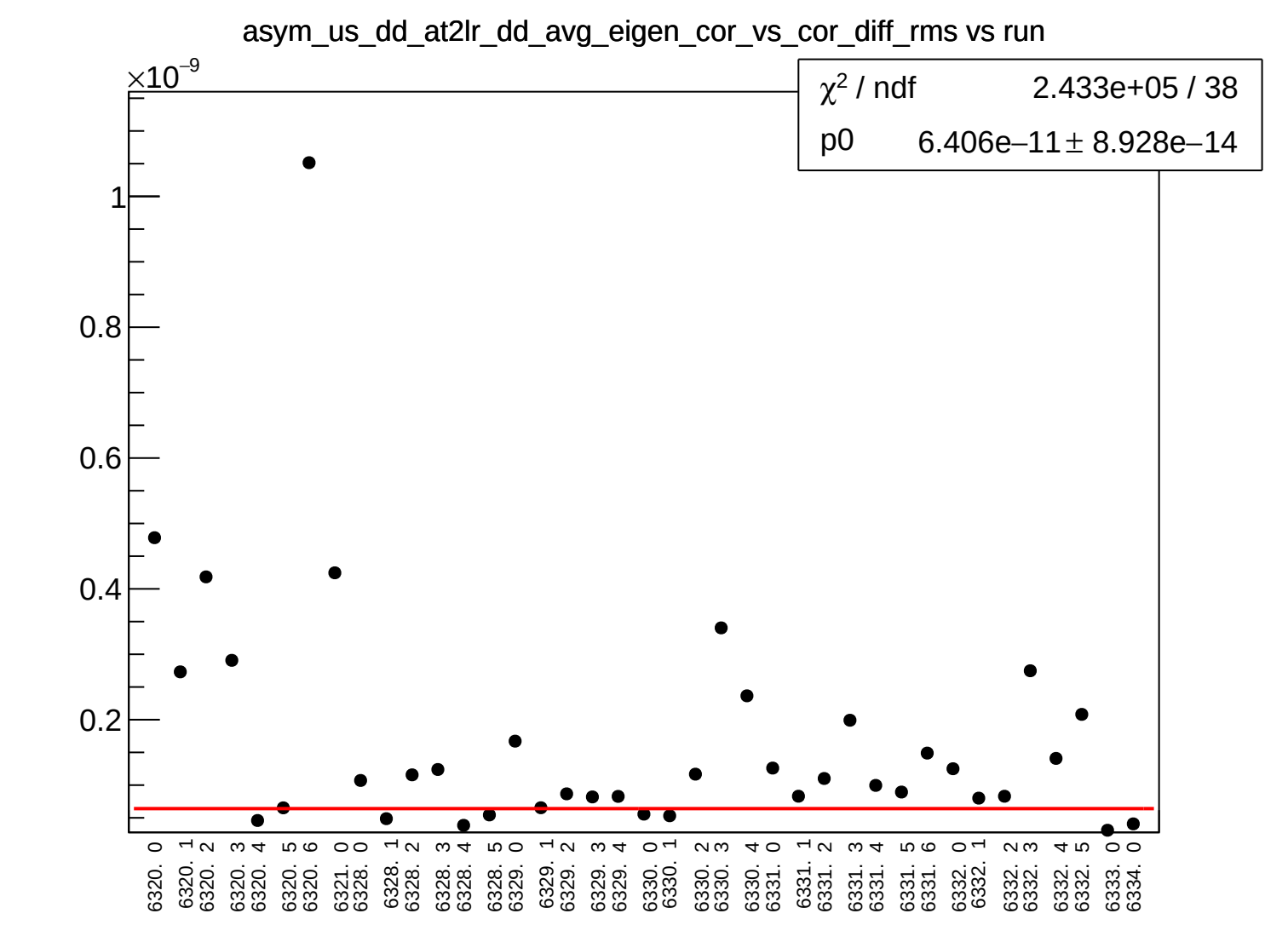

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.79 / 38
p0 0.196 ± 0.2606
pull
Entries 39
Mean 3.903
Std Dev 0
pull1D
Entries 39
Mean −0.065
Std Dev 0.9952

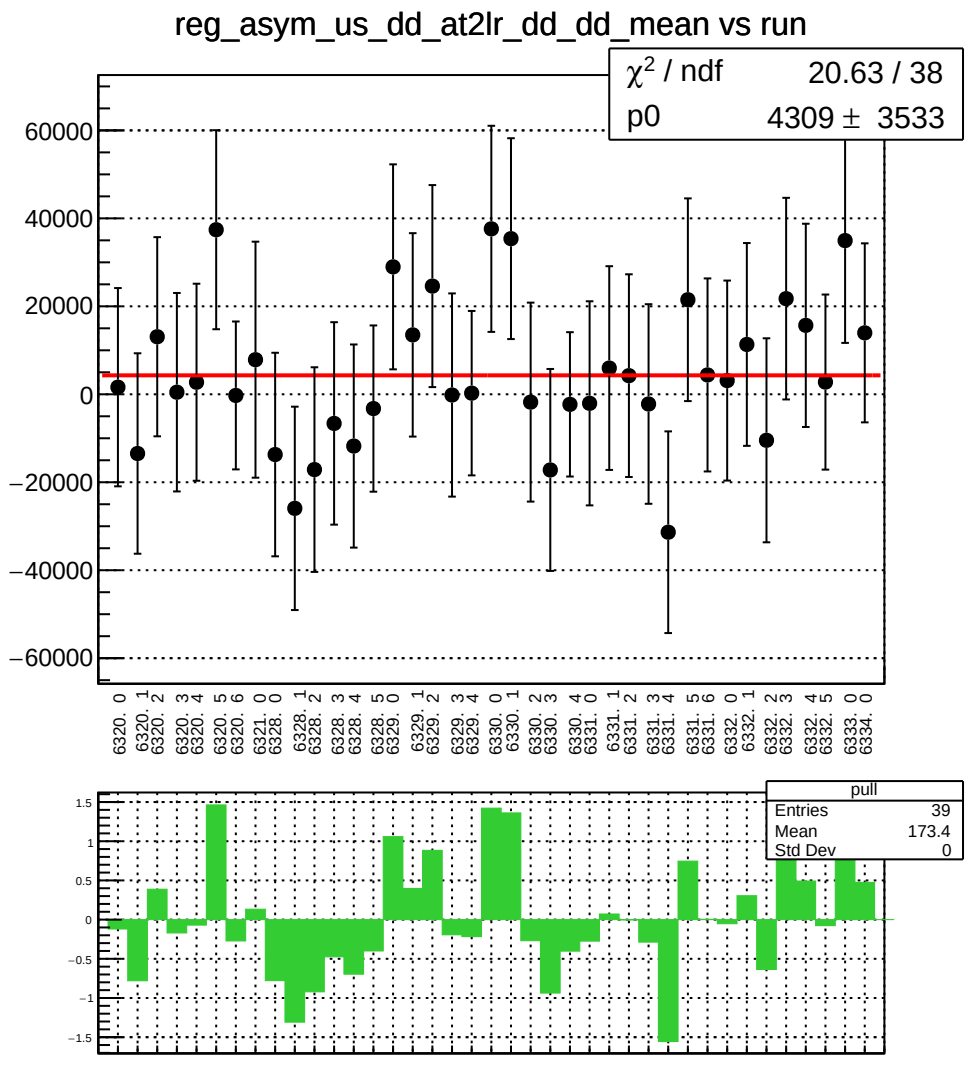

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.749e+04 / 38
p0 153.1 ± 0.1843
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

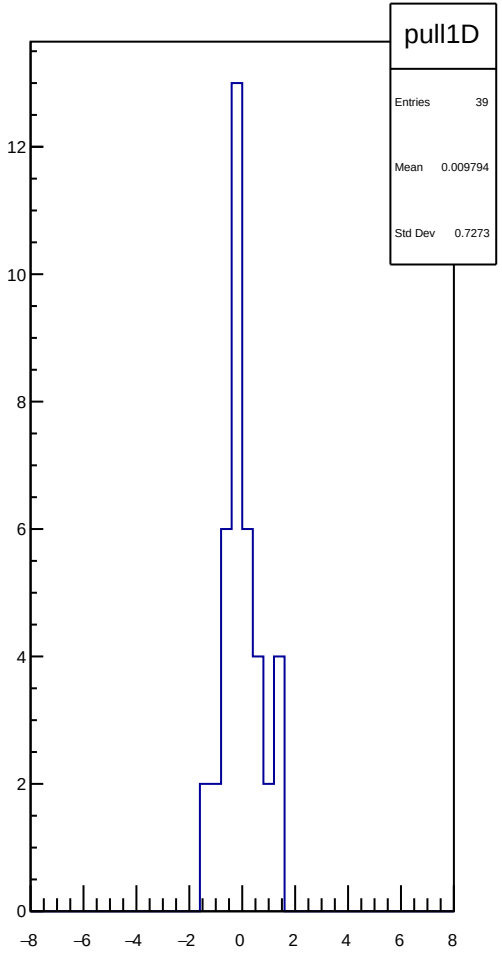

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.79 / 38
p0 0.196 ± 0.2606
pull
Entries 39
Mean 3.903
Std Dev 0
pull1D
Entries 39
Mean −0.065
Std Dev 0.9952

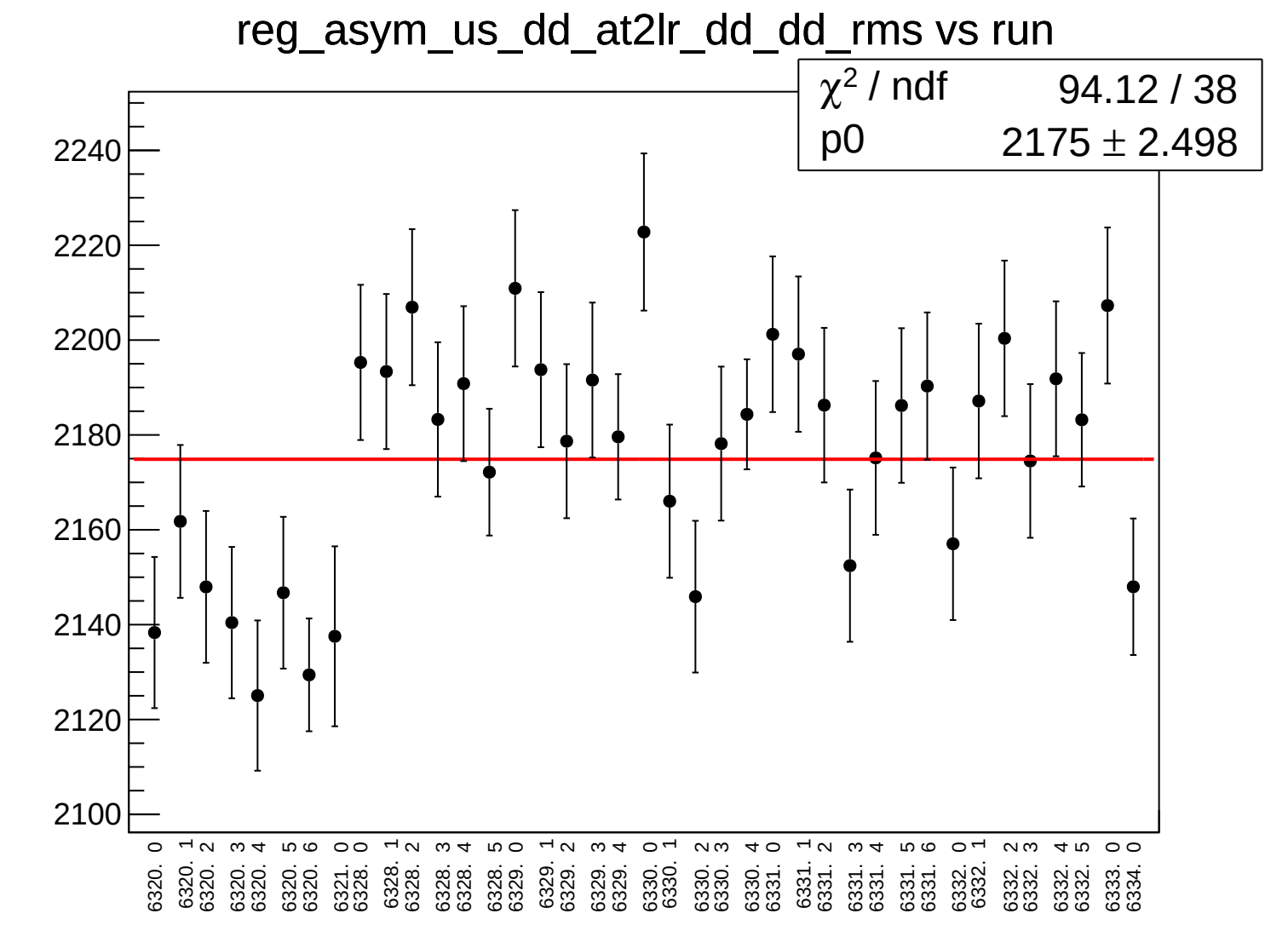

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.749e+04 / 38
p0 153.1 ± 0.1843
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

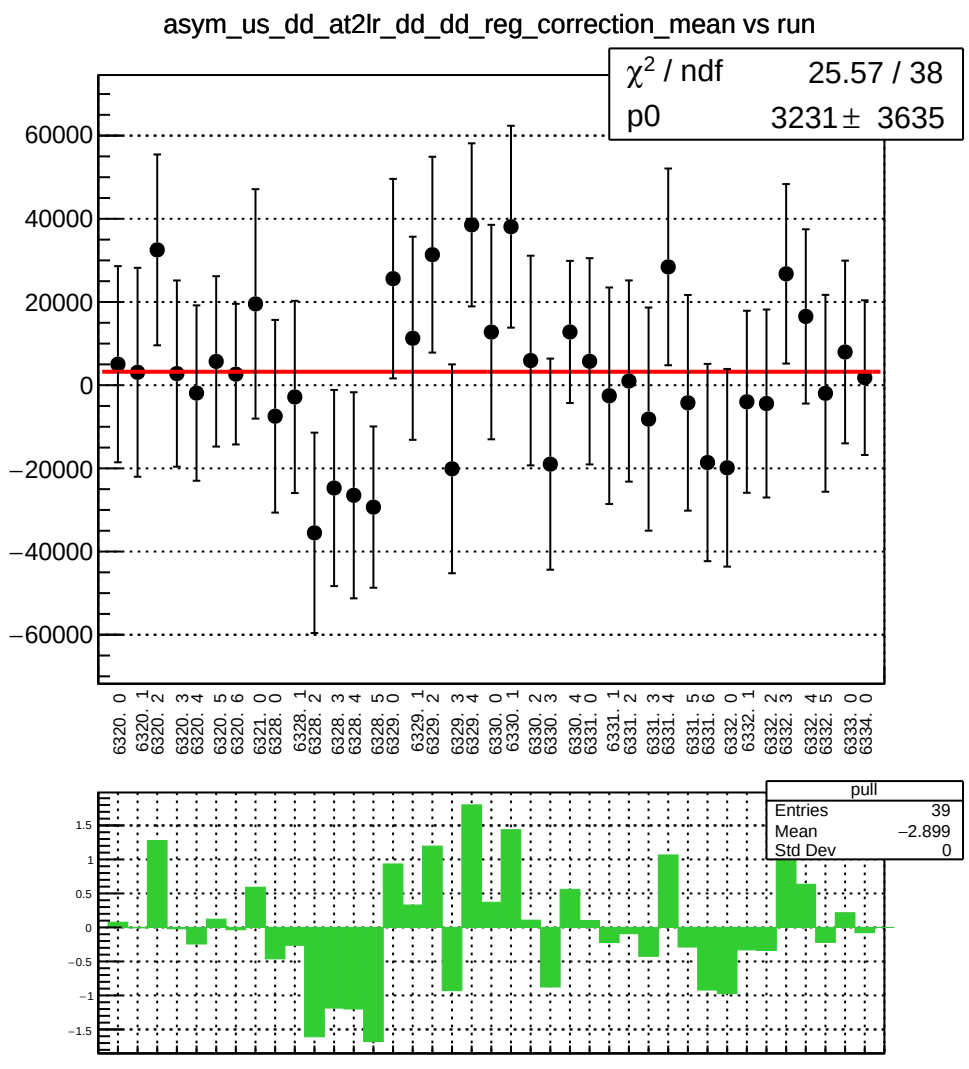

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.02 / 38
p0 −5.267e−14 ± 1.263e−13
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −85.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01621
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

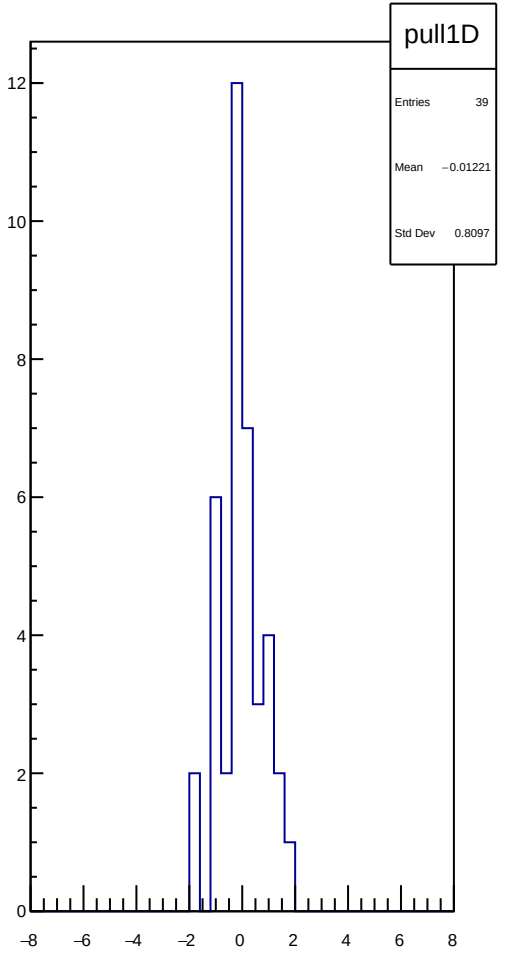

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.433e+05 / 38
p0 6.406e−11 ± 8.928e−14
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

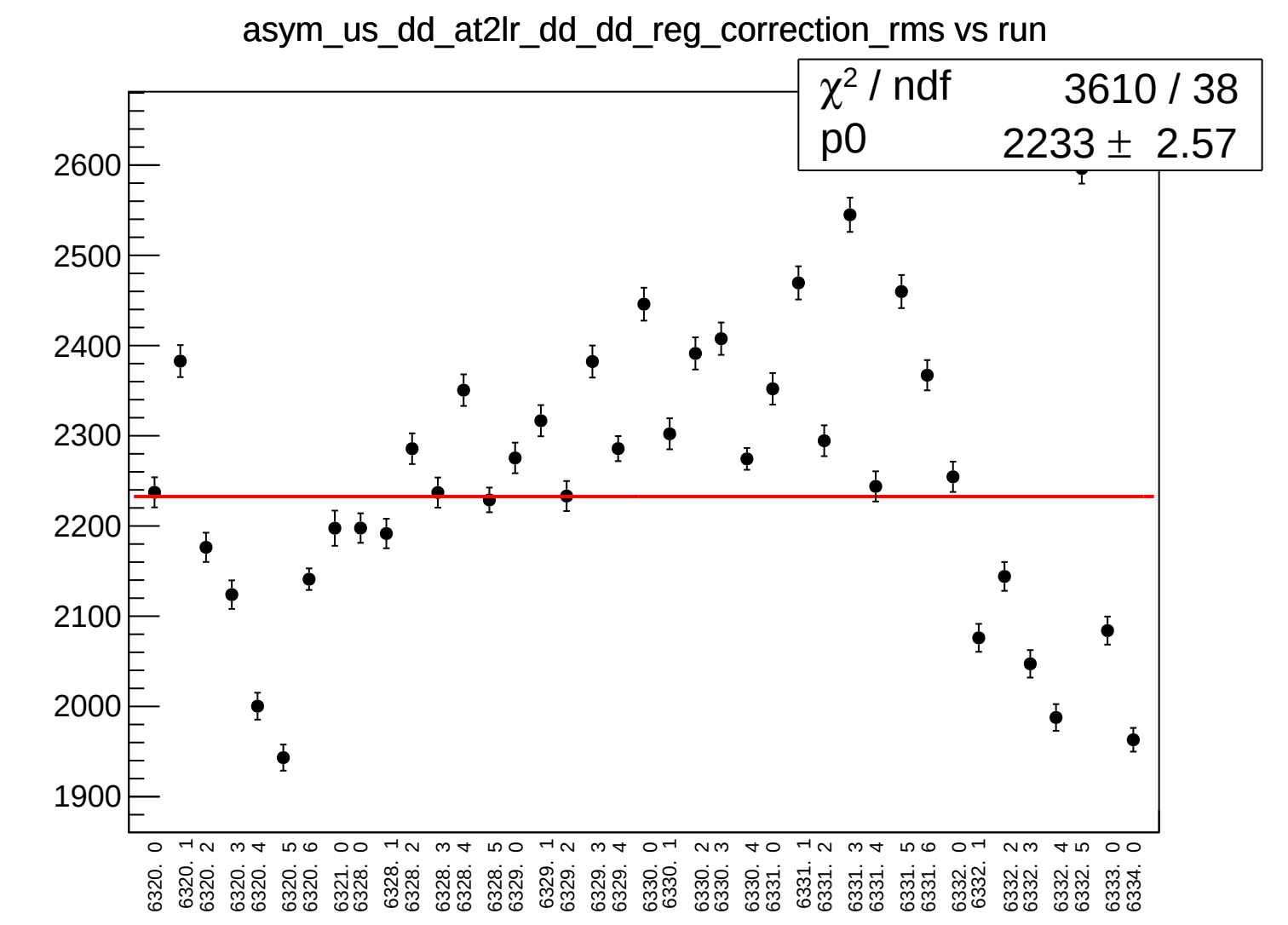

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 20.63 / 38
p0 4309 ± 3533
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 173.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

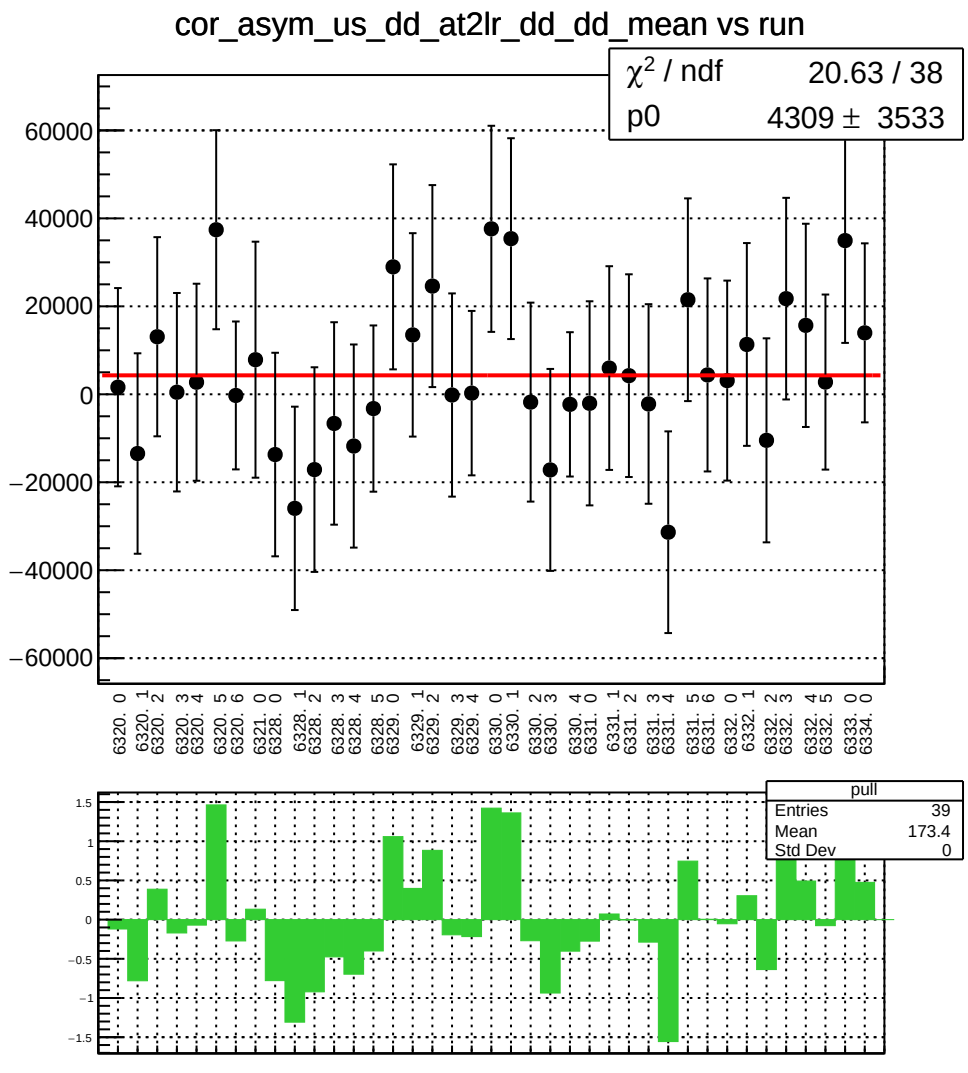

pull1D
Entries 39
Mean 0.009794
Std Dev 0.7273
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

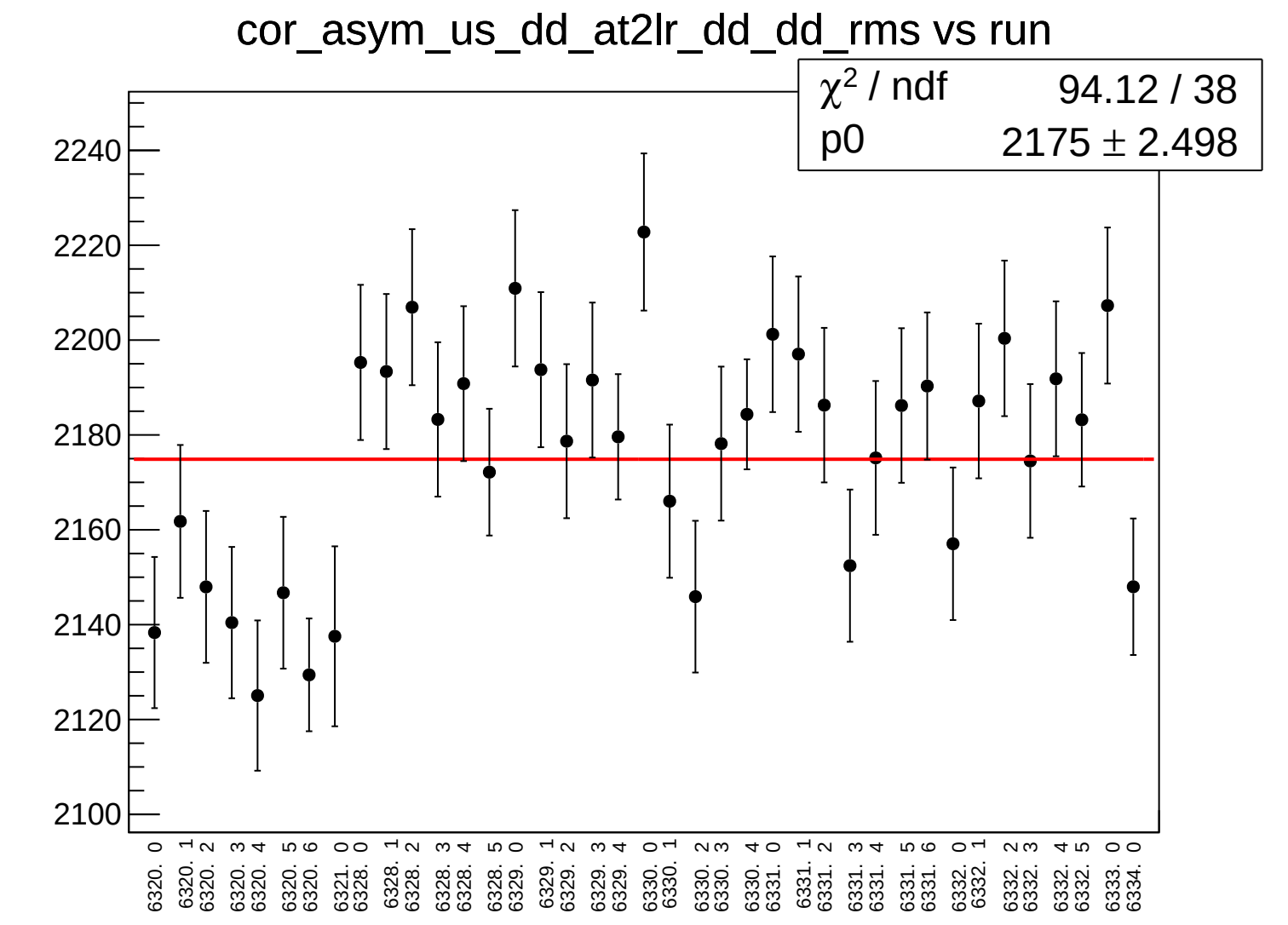

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 94.12 / 38
p0 2175 ± 2.498
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

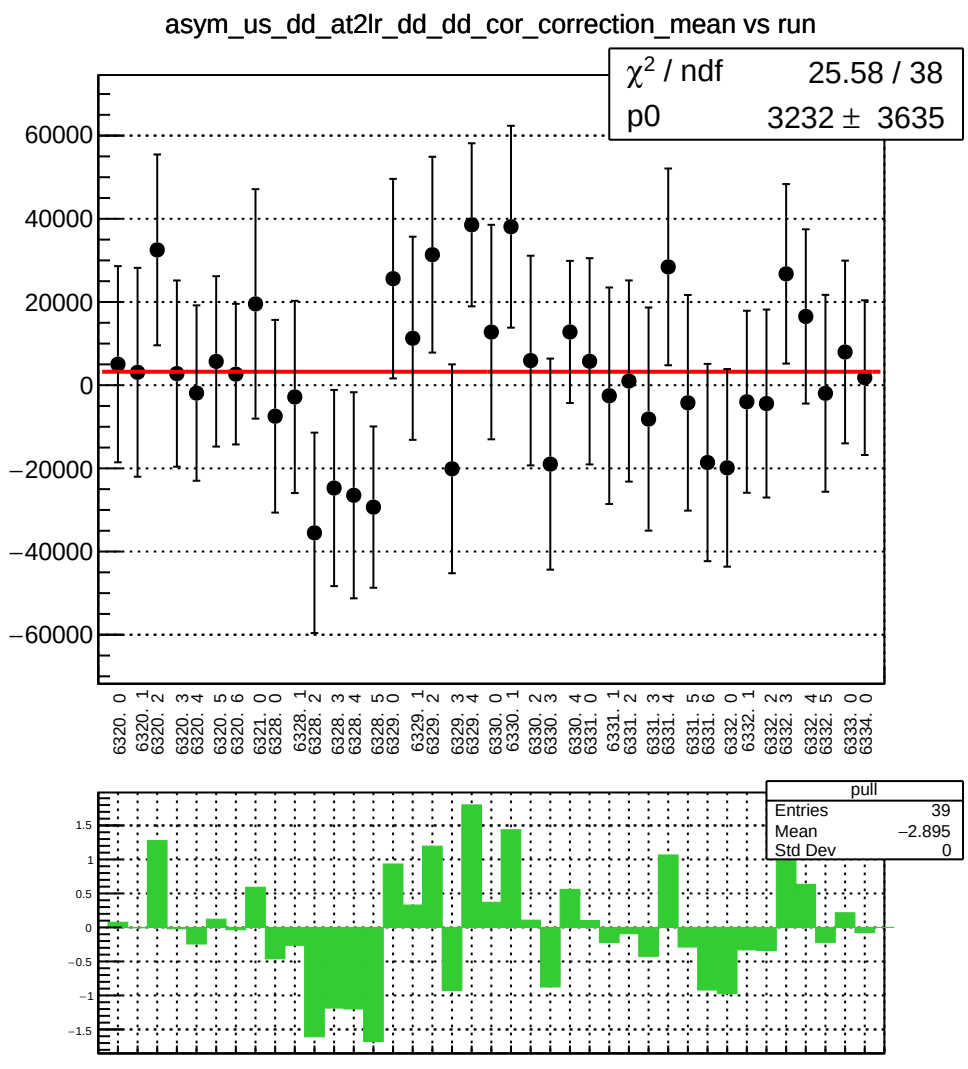

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 25.57 / 38
p0 3231 ± 3635
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2.899
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

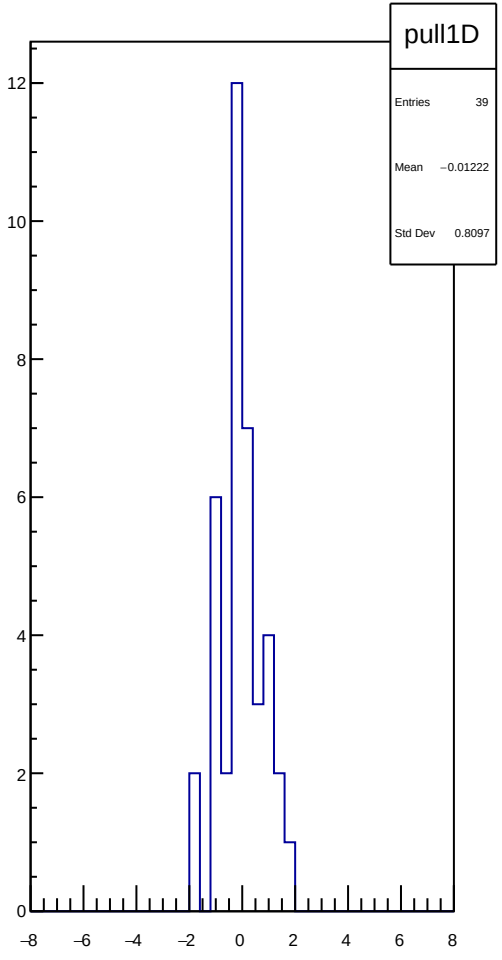

pull1D
Entries 39
Mean −0.01221
Std Dev 0.8097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

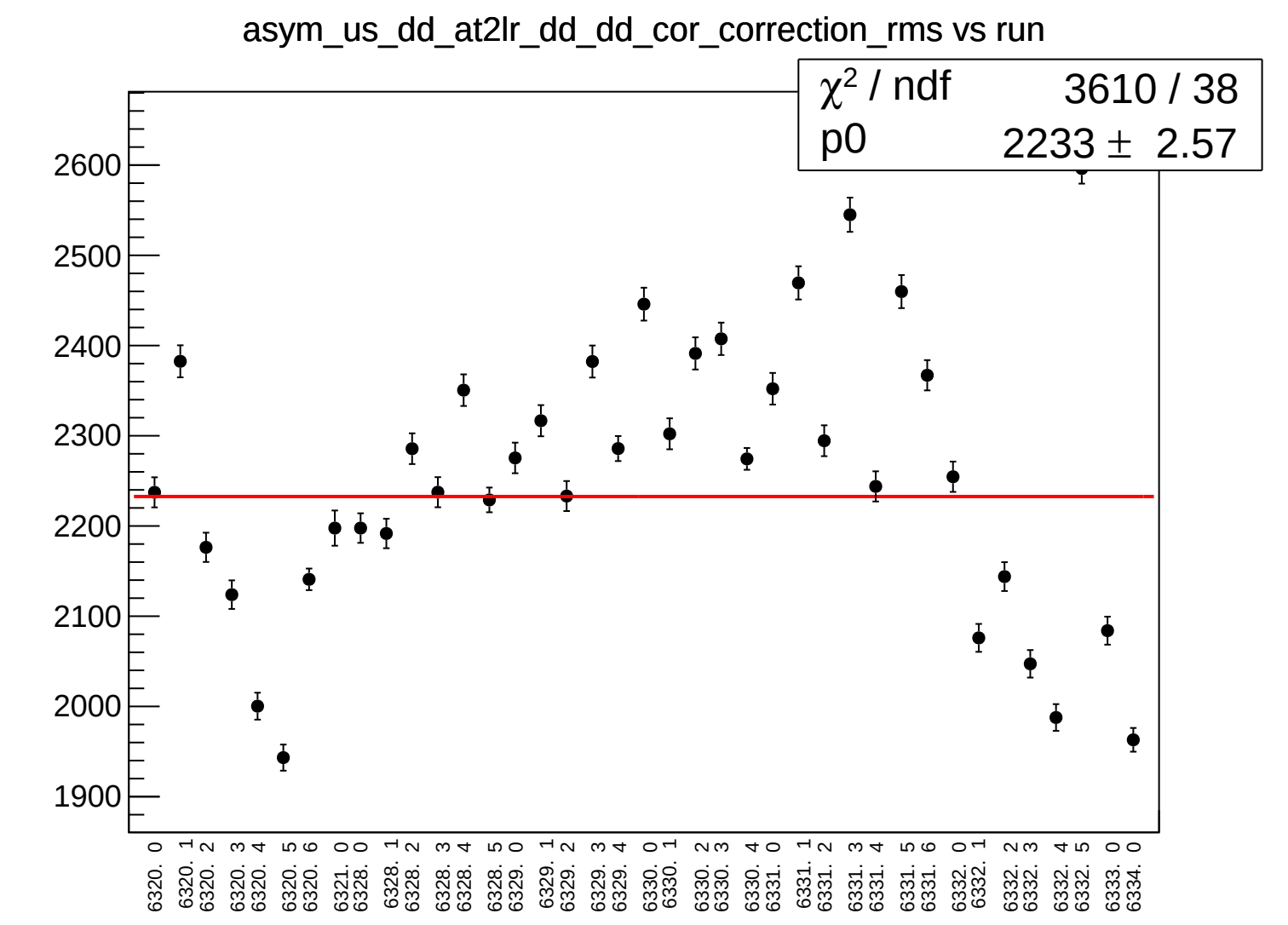

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3610 / 38
p0 2233 ± 2.57
2600
2500
2400
2300
2200
2100
2000
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

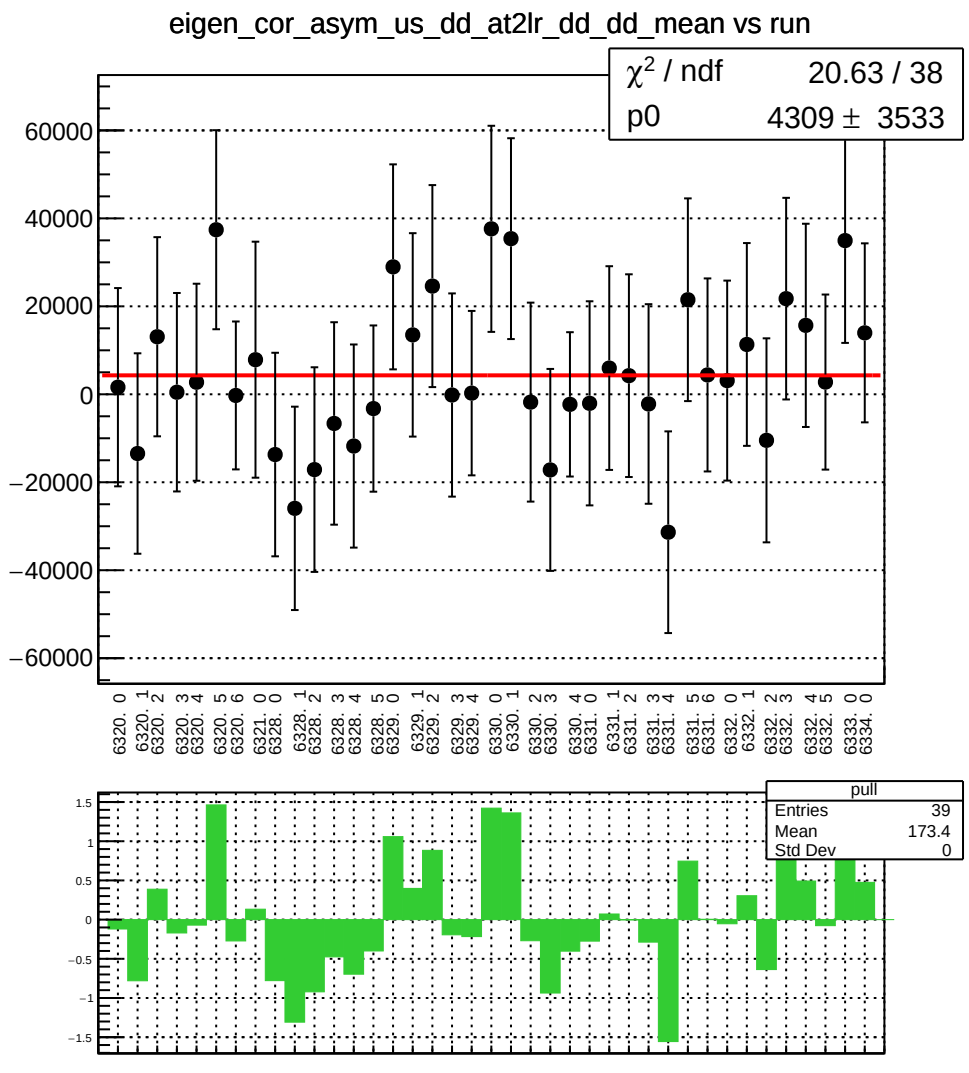

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 20.63 / 38
p0 4309 ± 3533
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 173.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.009791
Std Dev 0.7273
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

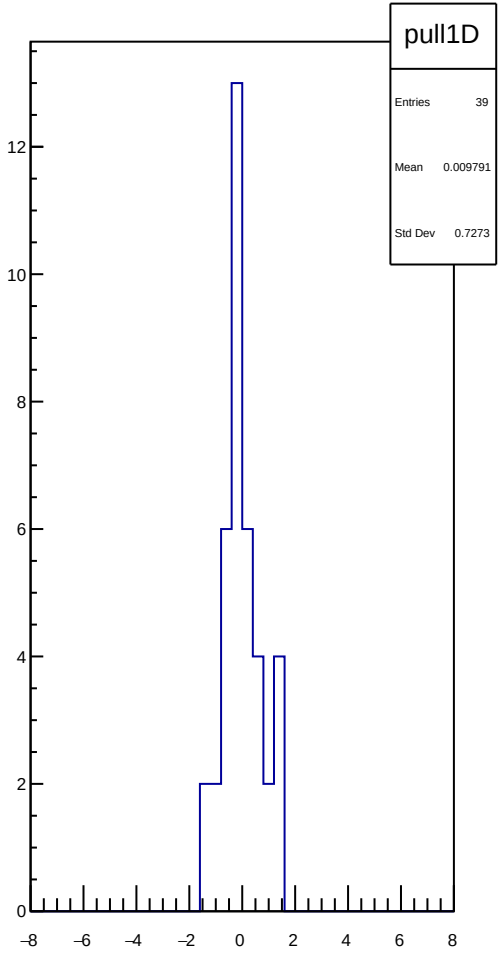

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 94.12 / 38
p0 2175 ± 2.498
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 25.58 / 38
p0 3232 ± 3635
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2.895
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01222
Std Dev 0.8097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3610 / 38
p0 2233 ± 2.57
2600
2500
2400
2300
2200
2100
2000
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 20.63 / 38
p0 4309 ± 3533
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 173.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.009791
Std Dev 0.7273
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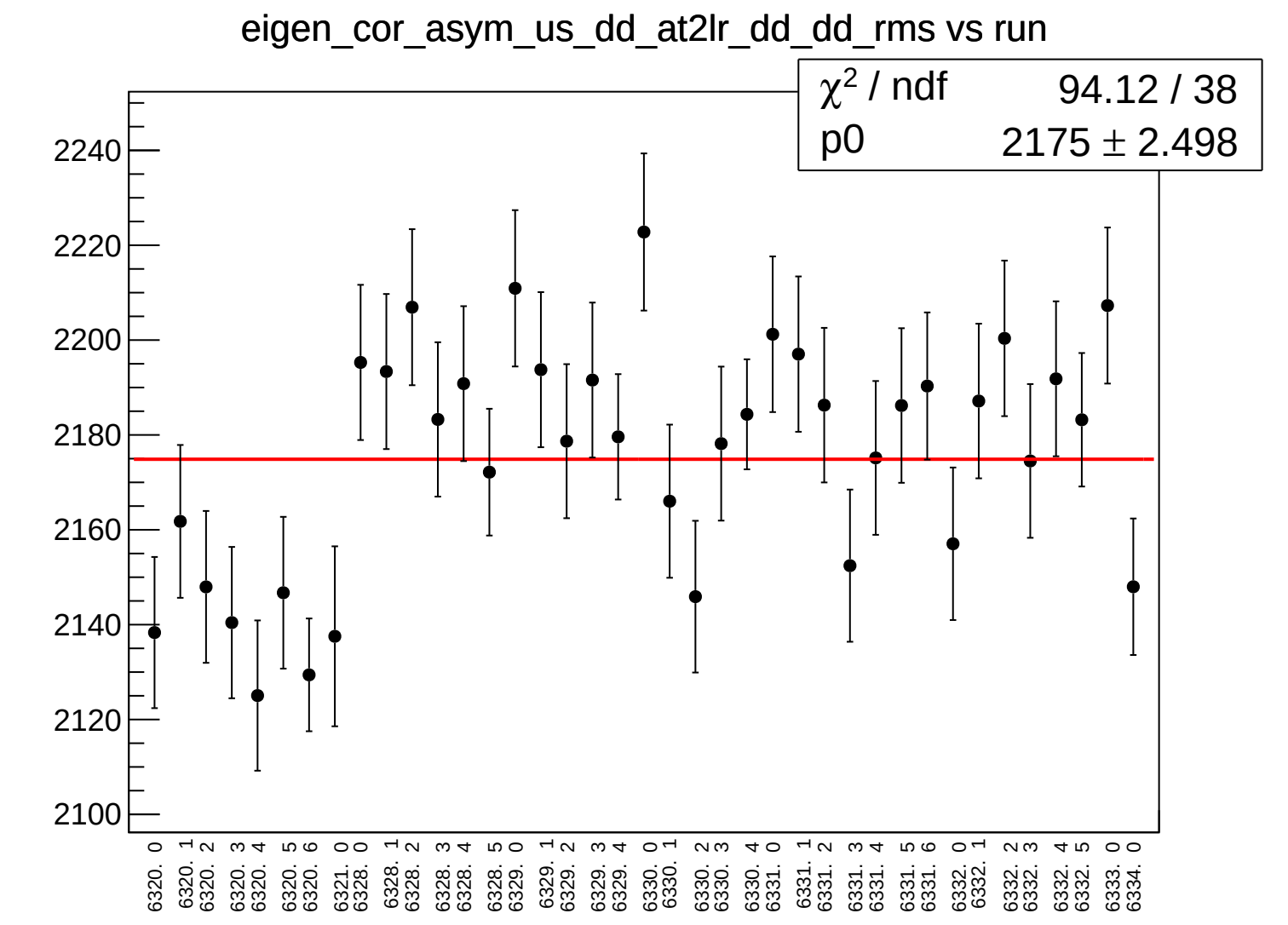
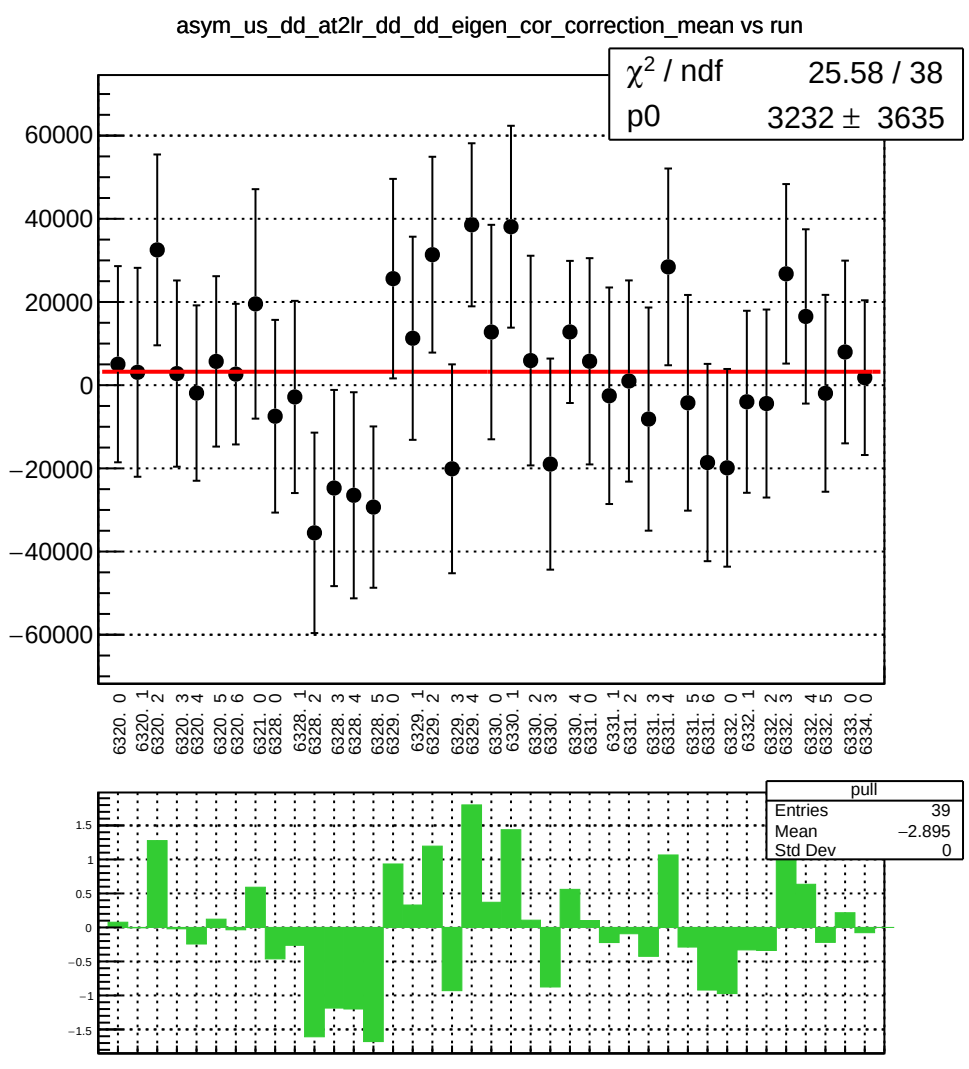
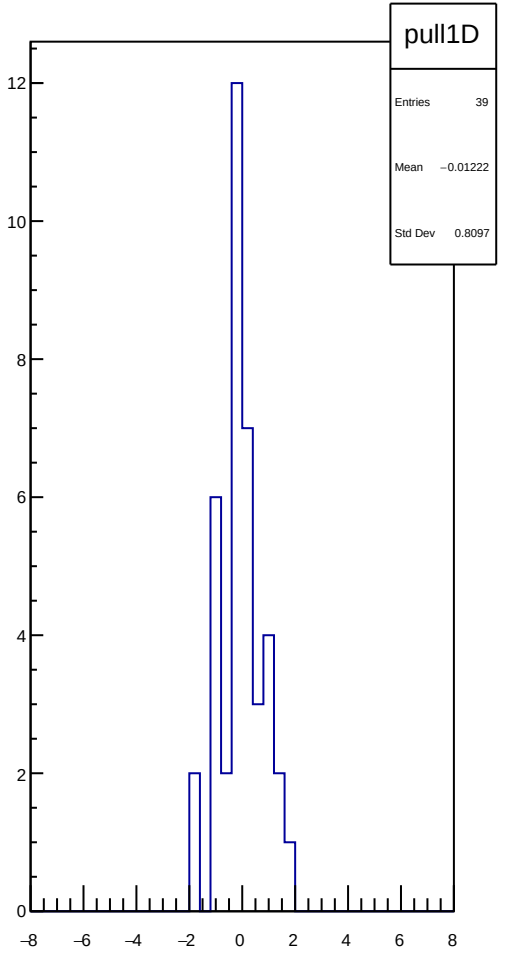
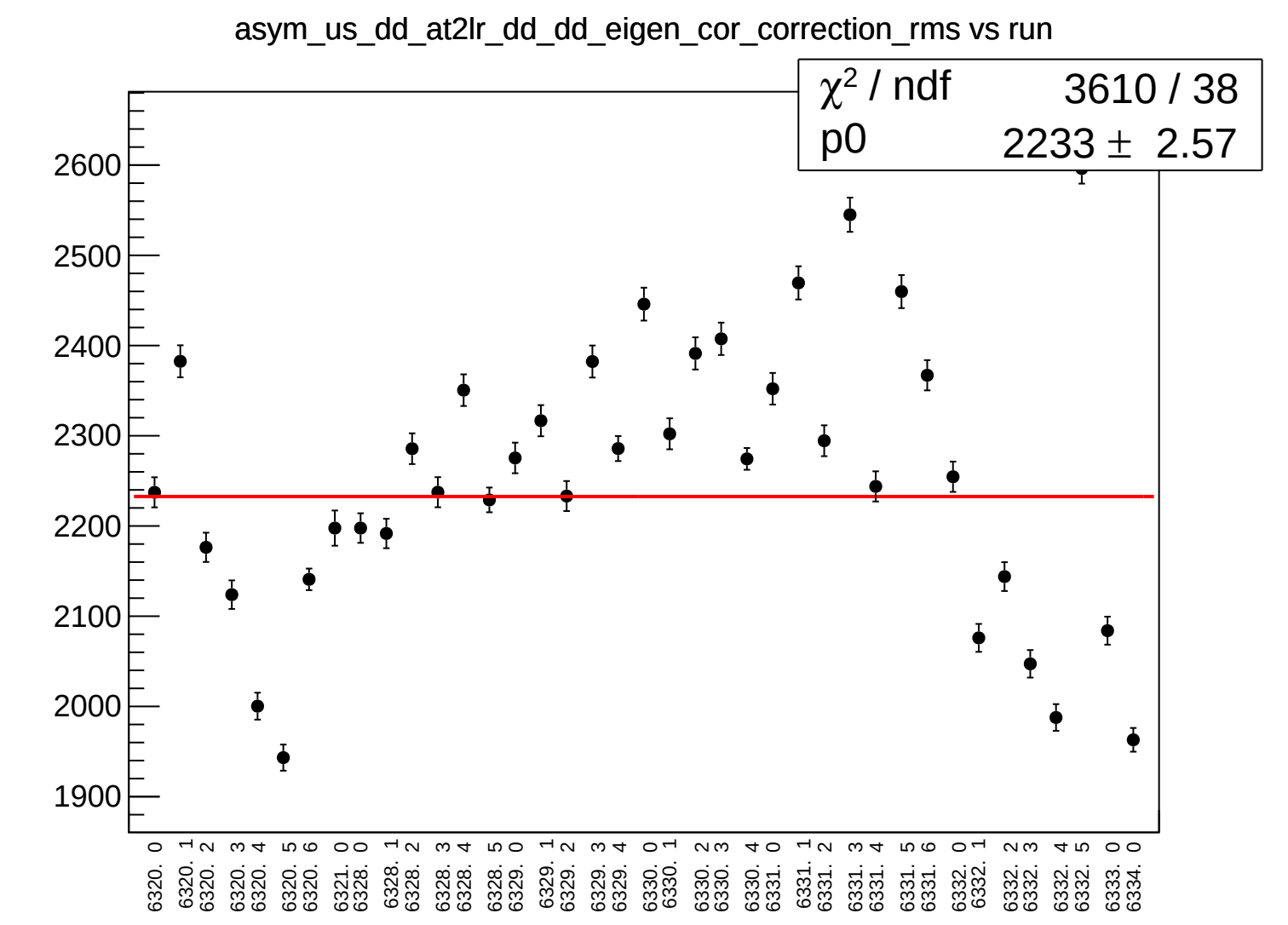
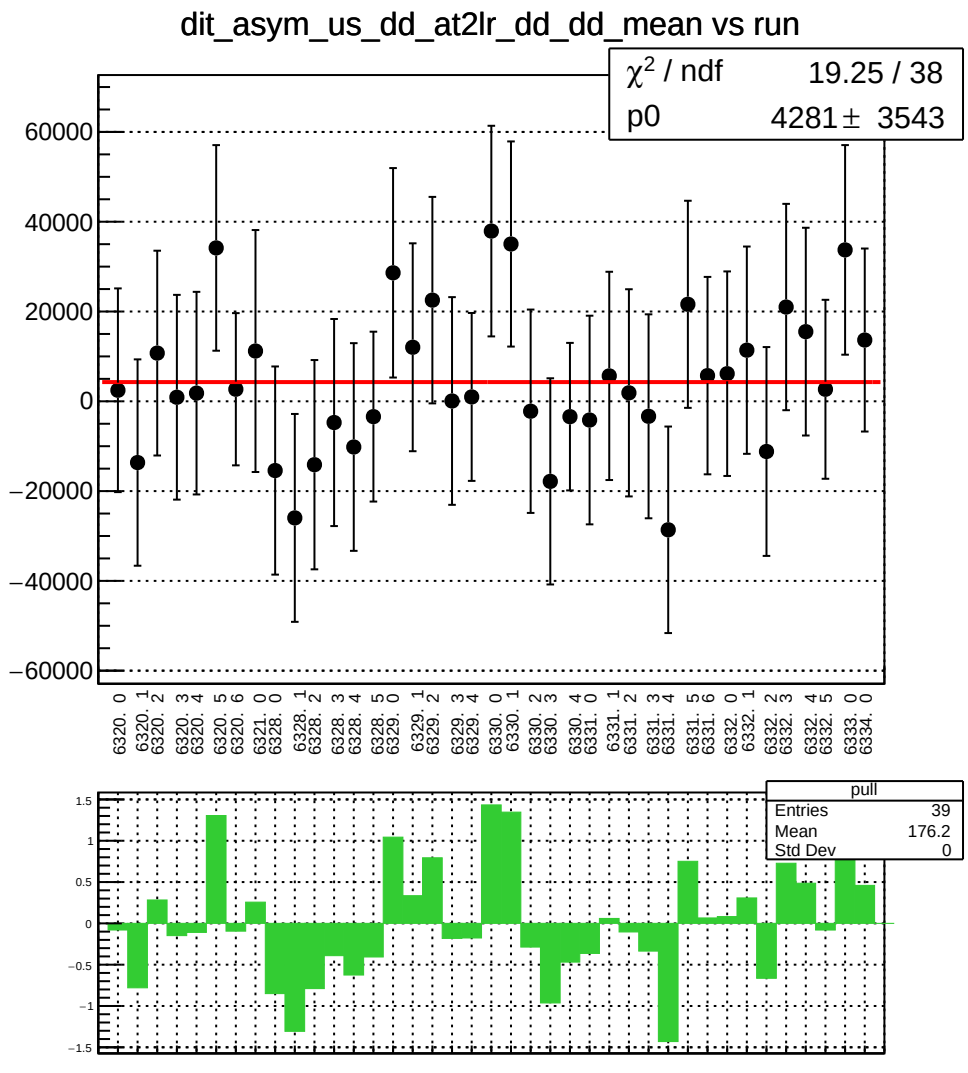
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

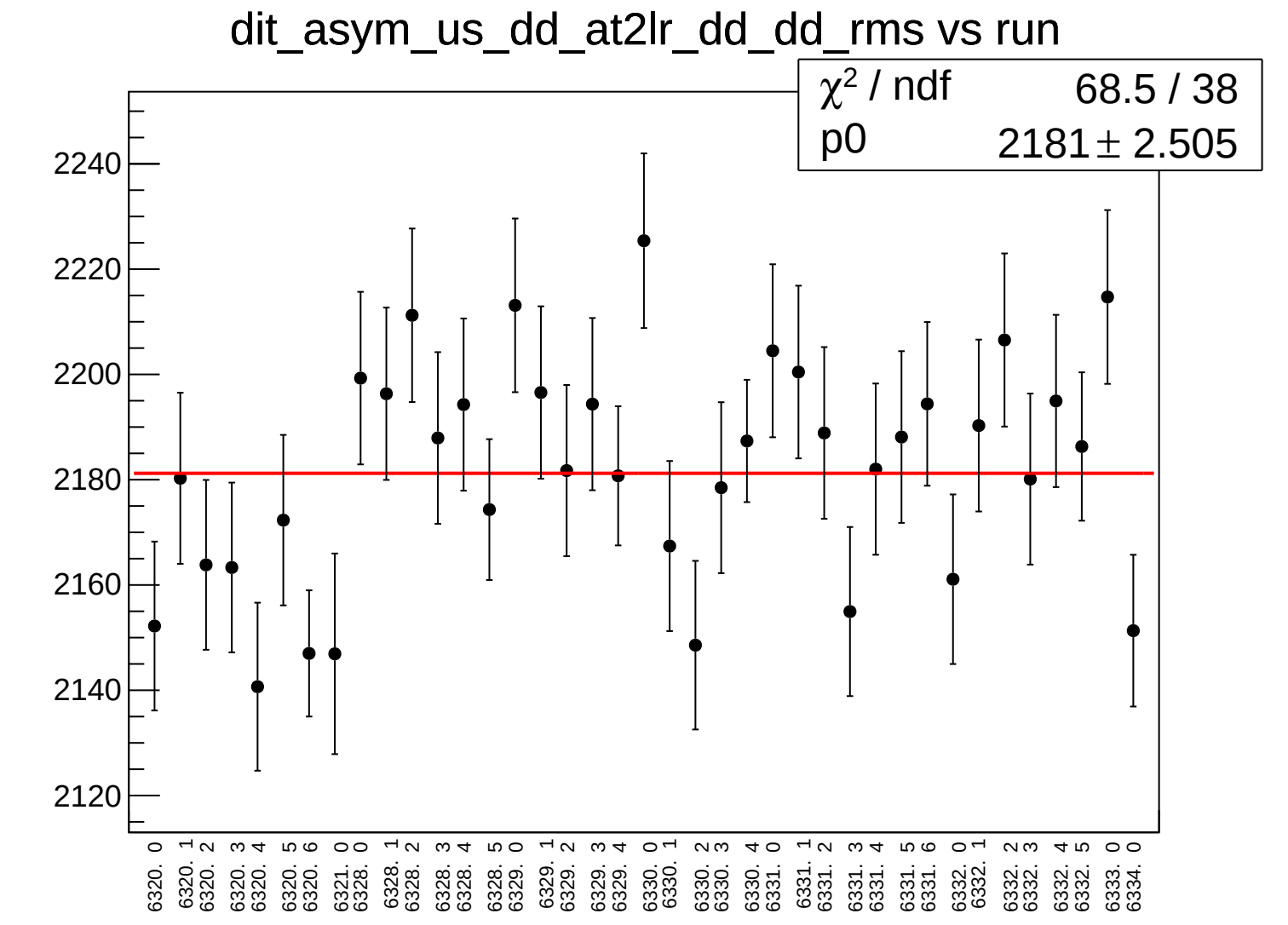

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 94.12 / 38
p0 2175 ± 2.498
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

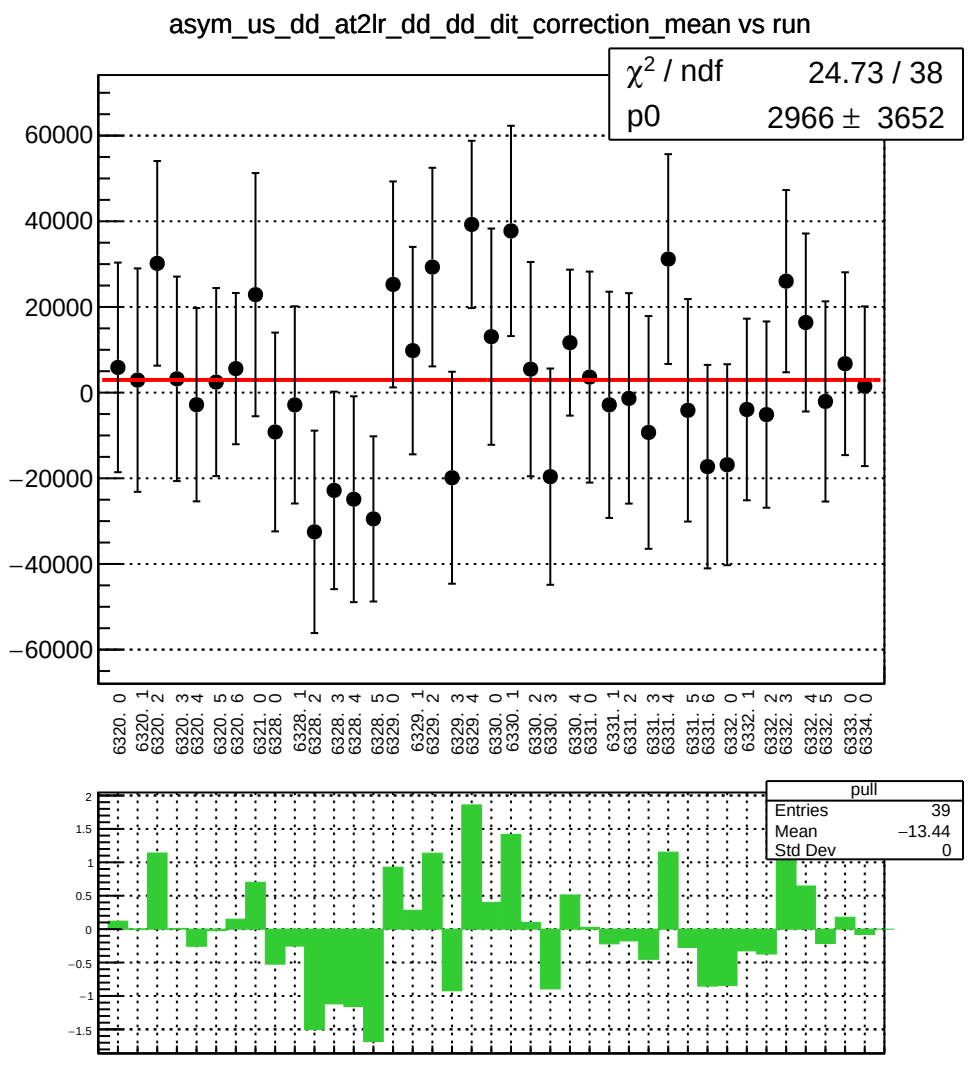

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.58 / 38
p0 3232 ± 3635
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2.895
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

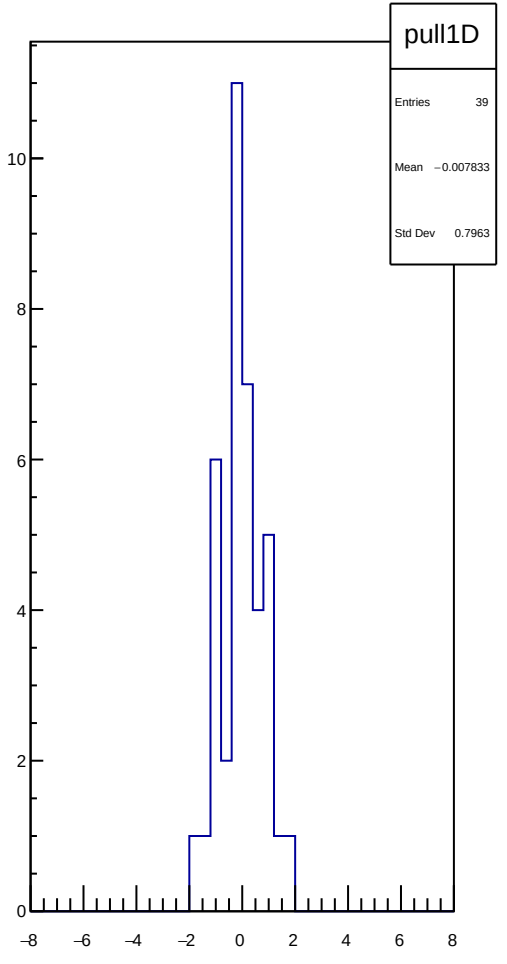

pull1D
Entries 39
Mean −0.01222
Std Dev 0.8097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

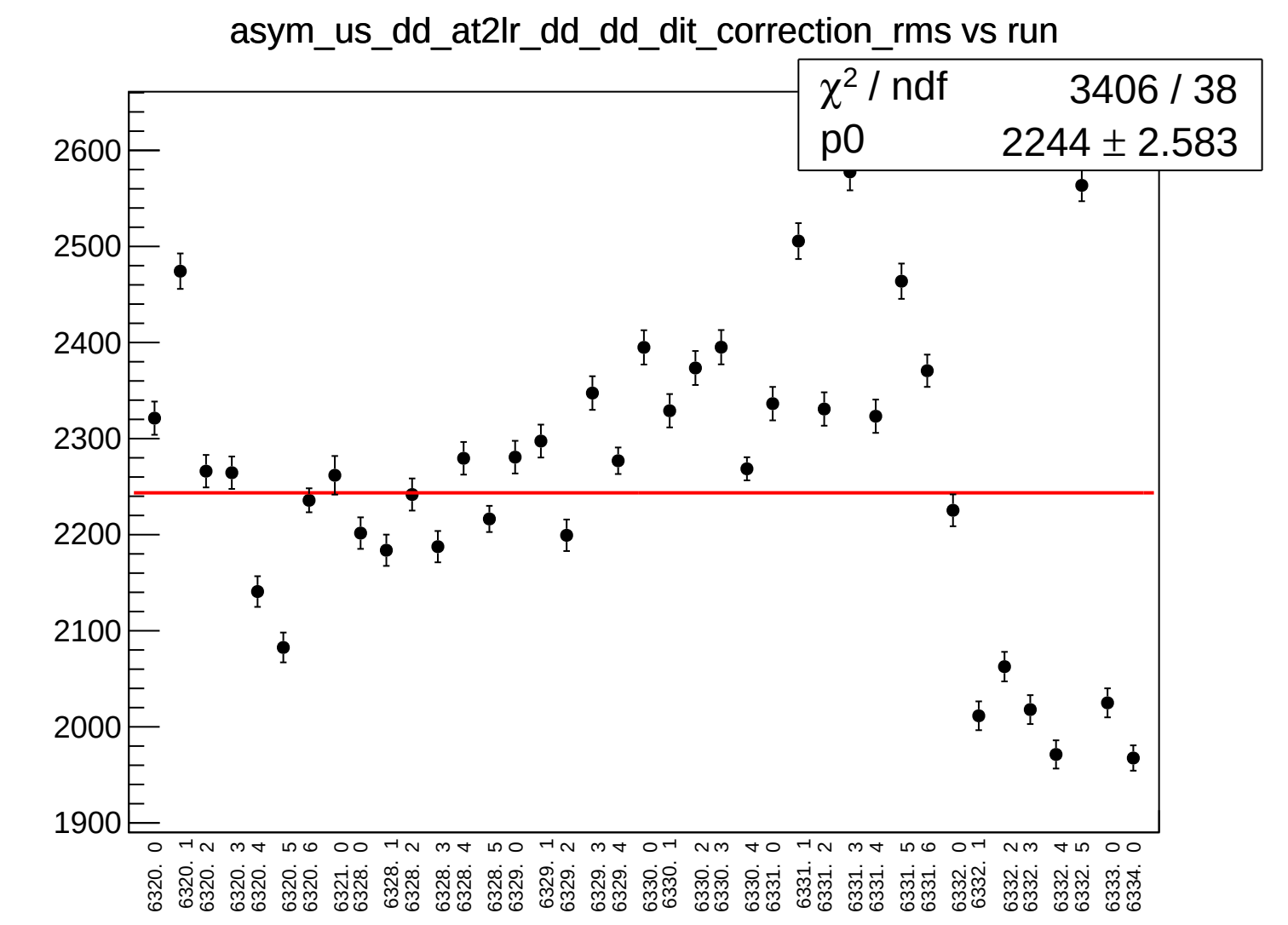

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3610 / 38
p0 2233 ± 2.57
2600
2500
2400
2300
2200
2100
2000
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

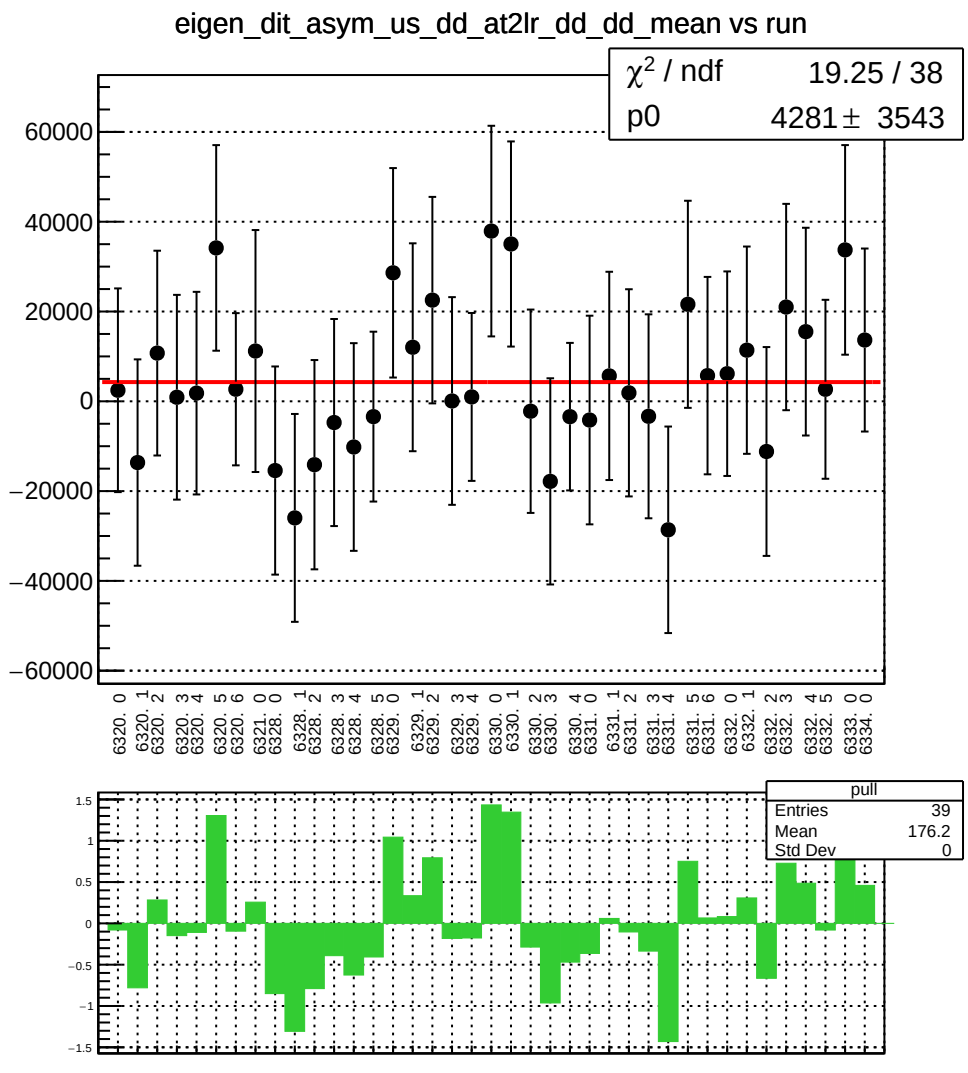

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 19.25 / 38
p0 4281 ± 3543
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 176.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.009262
Std Dev 0.7025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

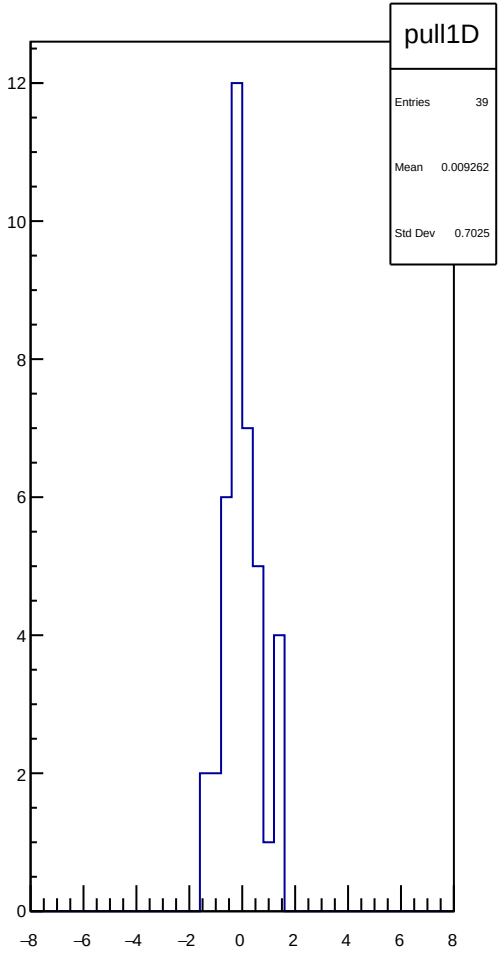

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 68.5 / 38
p0 2181 ± 2.505
2240
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

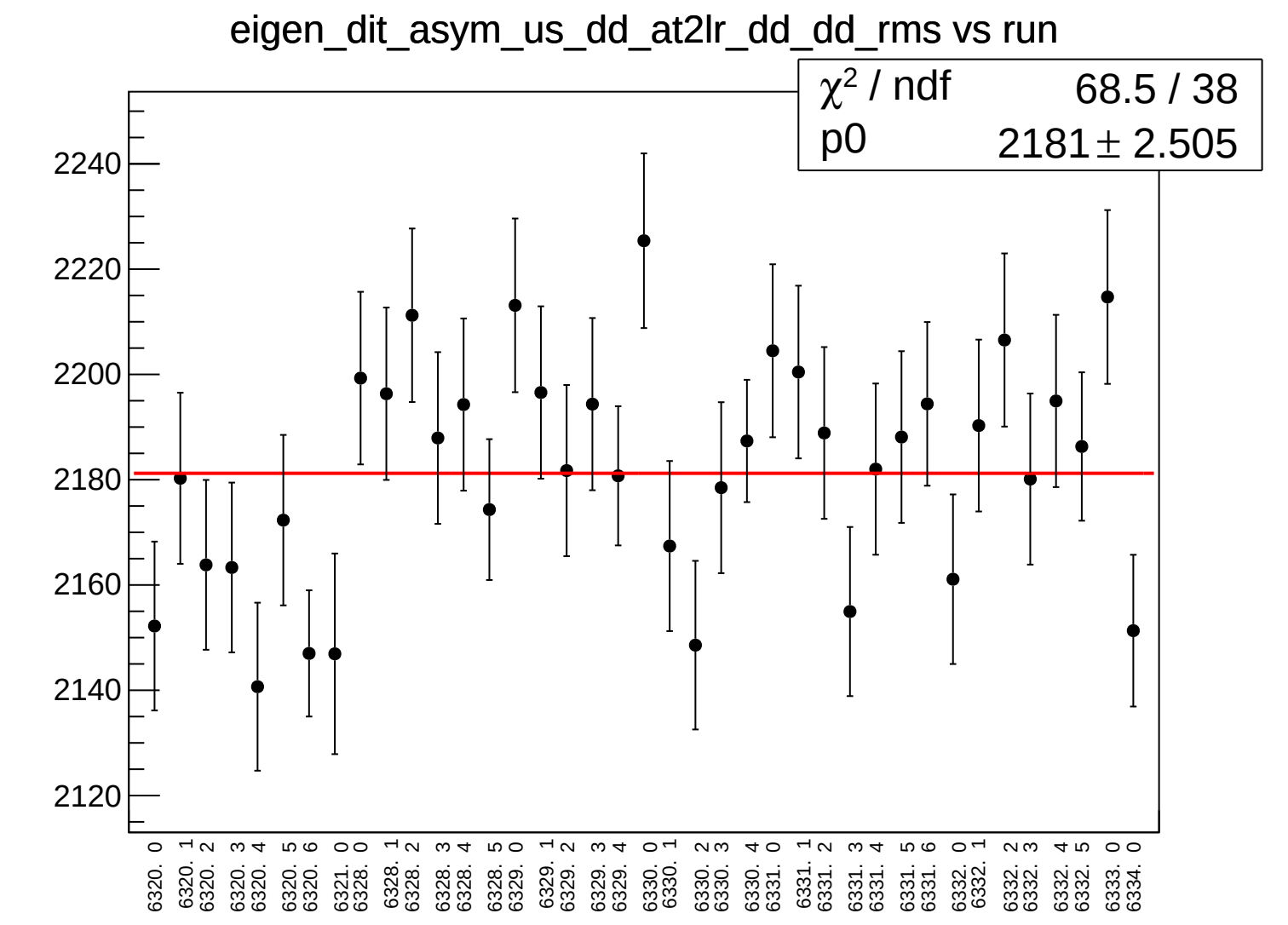

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 24.73 / 38
p0 2966 ± 3652
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.007833
Std Dev 0.7963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3406 / 38
p0 2244 ± 2.583
2600
2500
2400
2300
2200
2100
2000
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 19.25 / 38
p0 4281 ± 3543
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 176.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.009262
Std Dev 0.7025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 68.5 / 38
p0 2181 ± 2.505
2240
2220
2200
2180
2160
2140
2120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6331. 6
6332. 0
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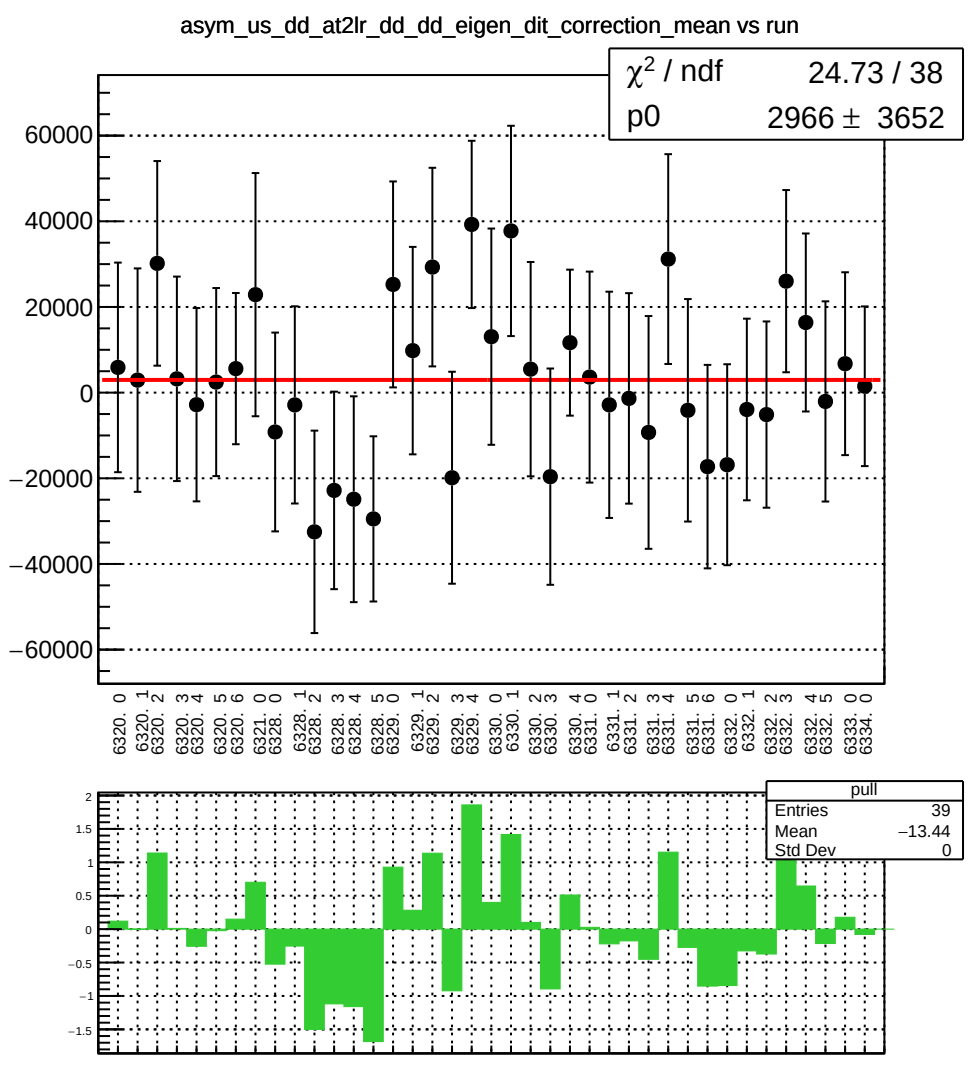
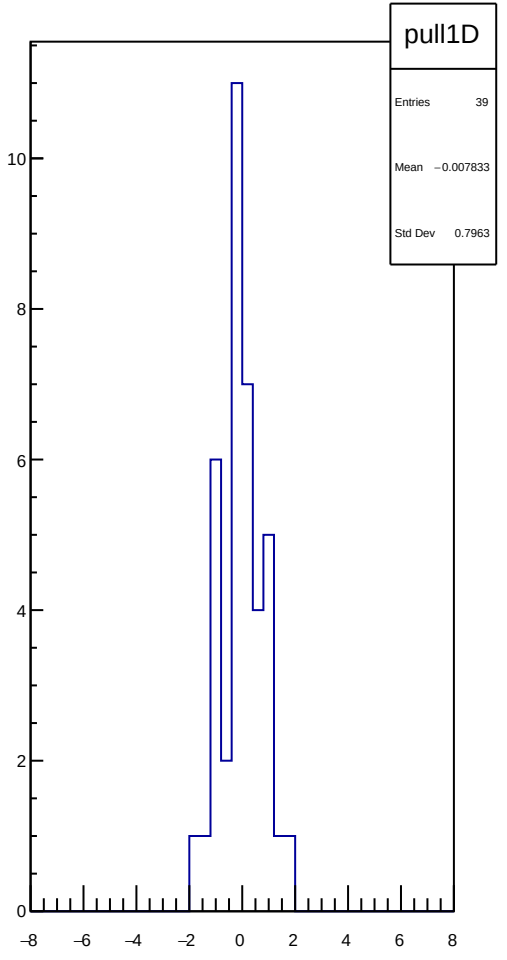
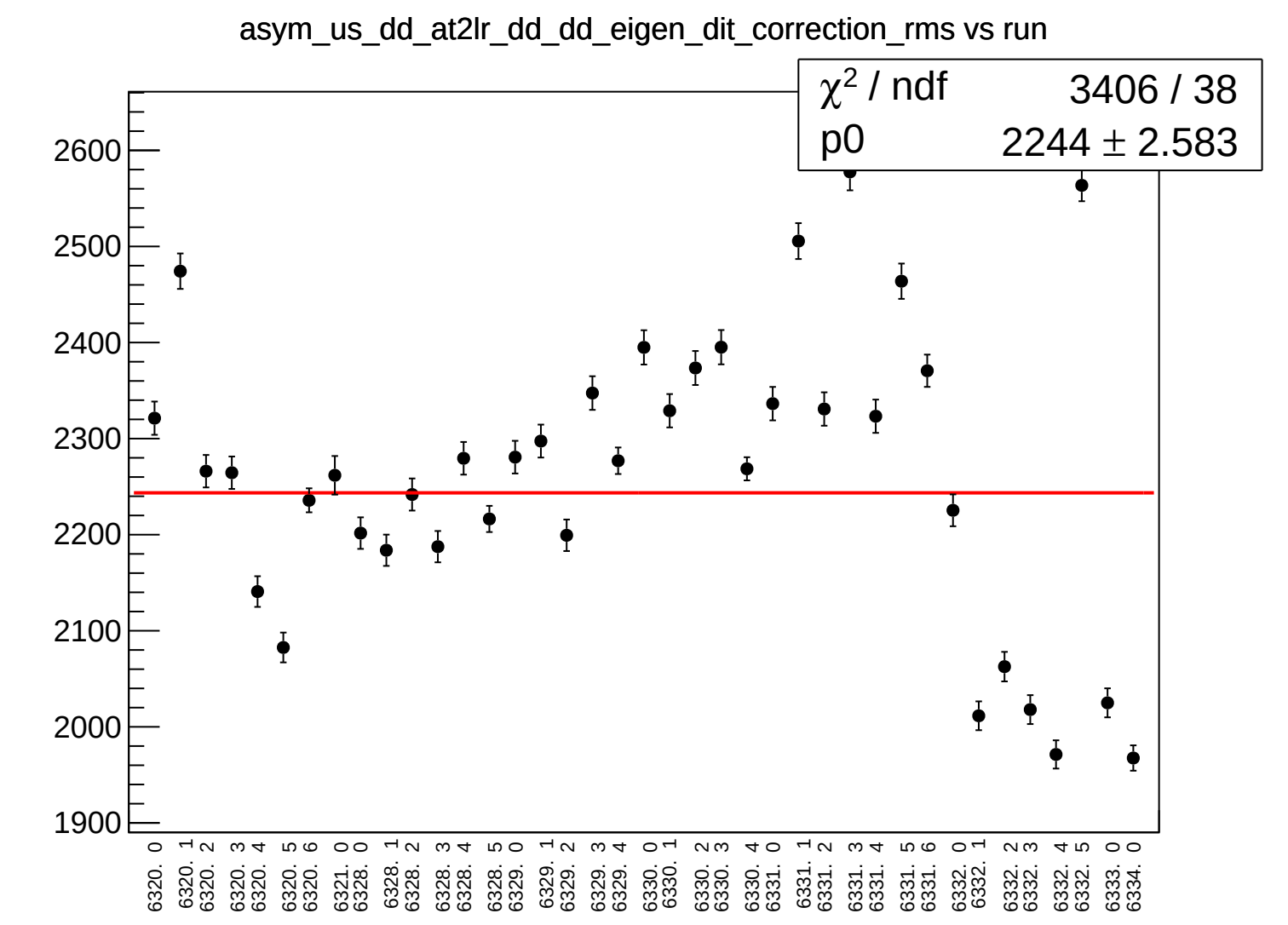
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 24.73 / 38
p0 2966 ± 3652
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.007833
Std Dev 0.7963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3406 / 38
p0 2244 ± 2.583
2600
2500
2400
2300
2200
2100
2000
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6331. 0
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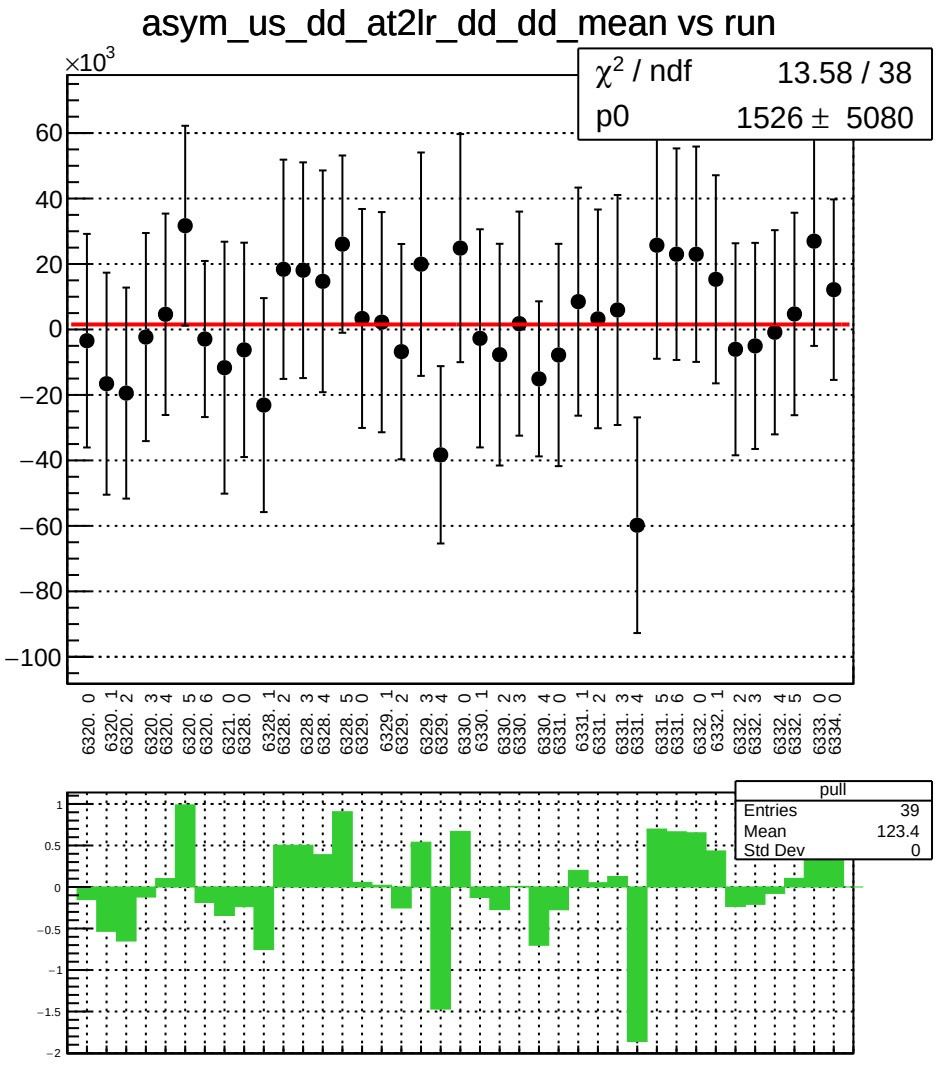
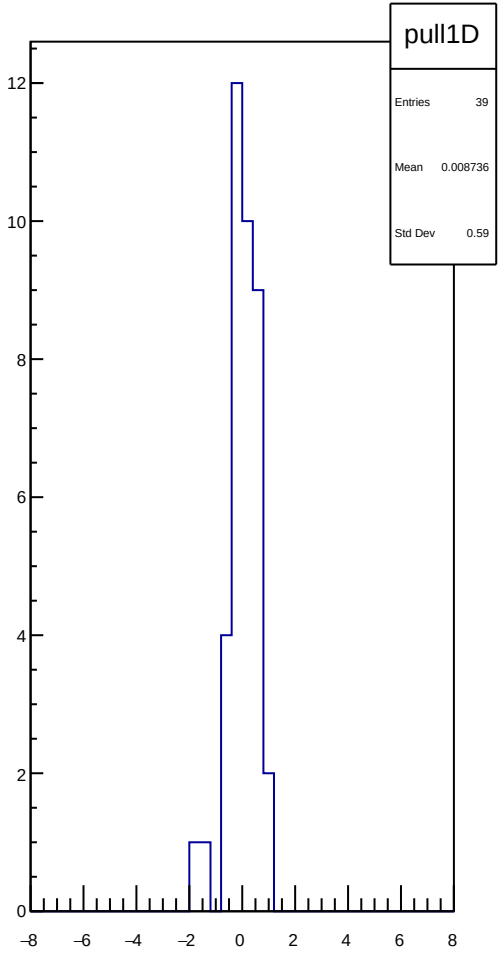
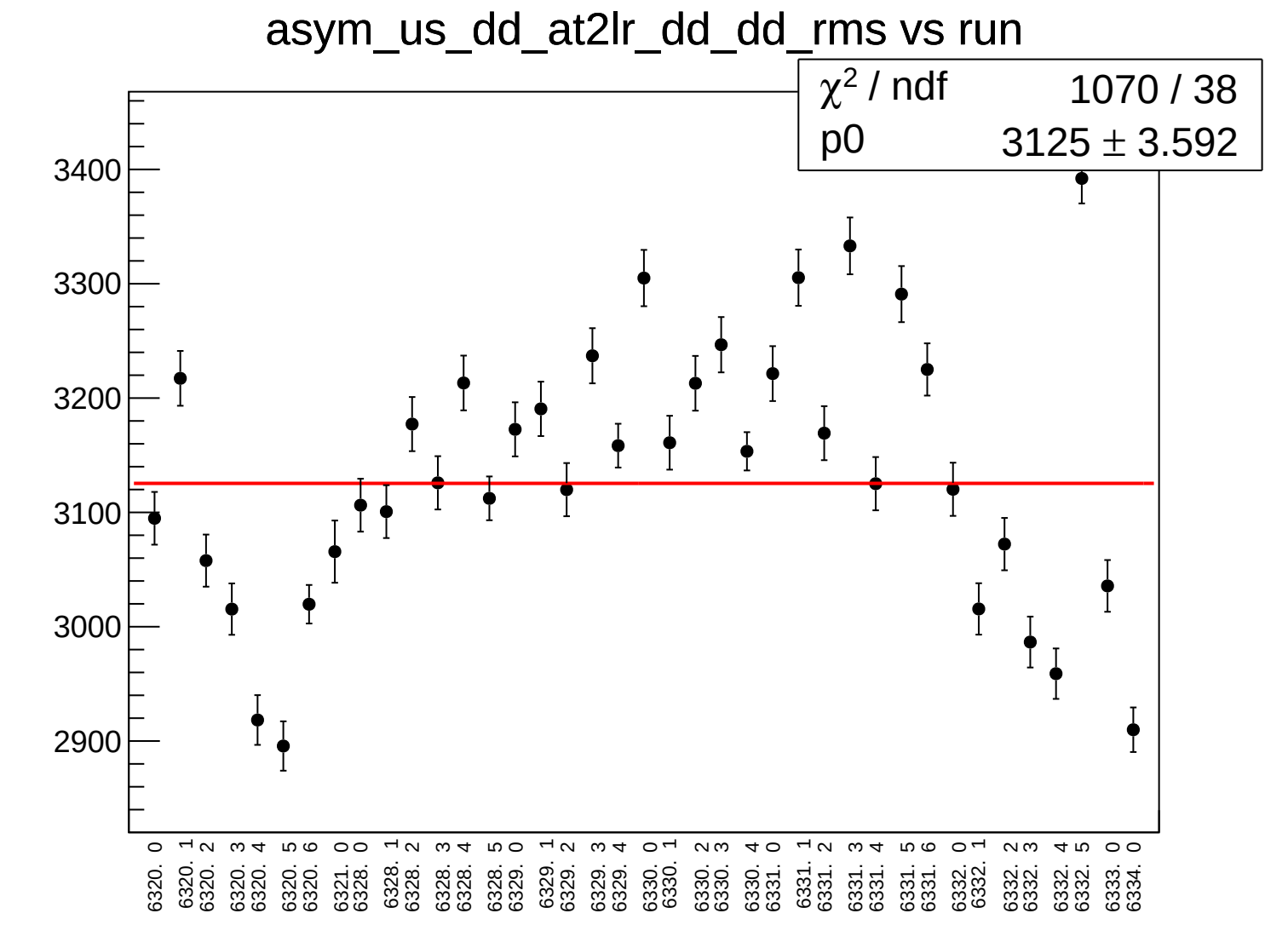
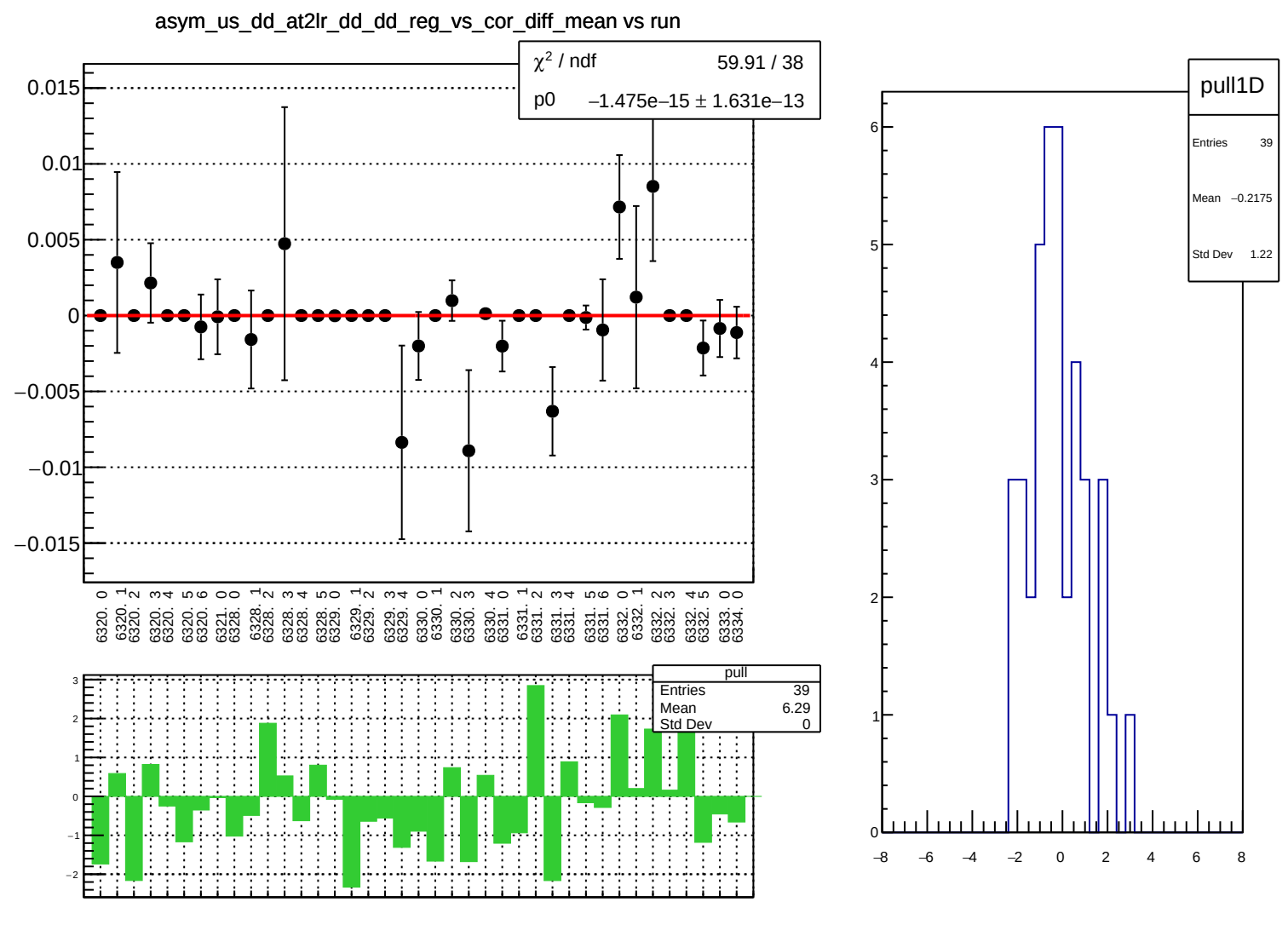
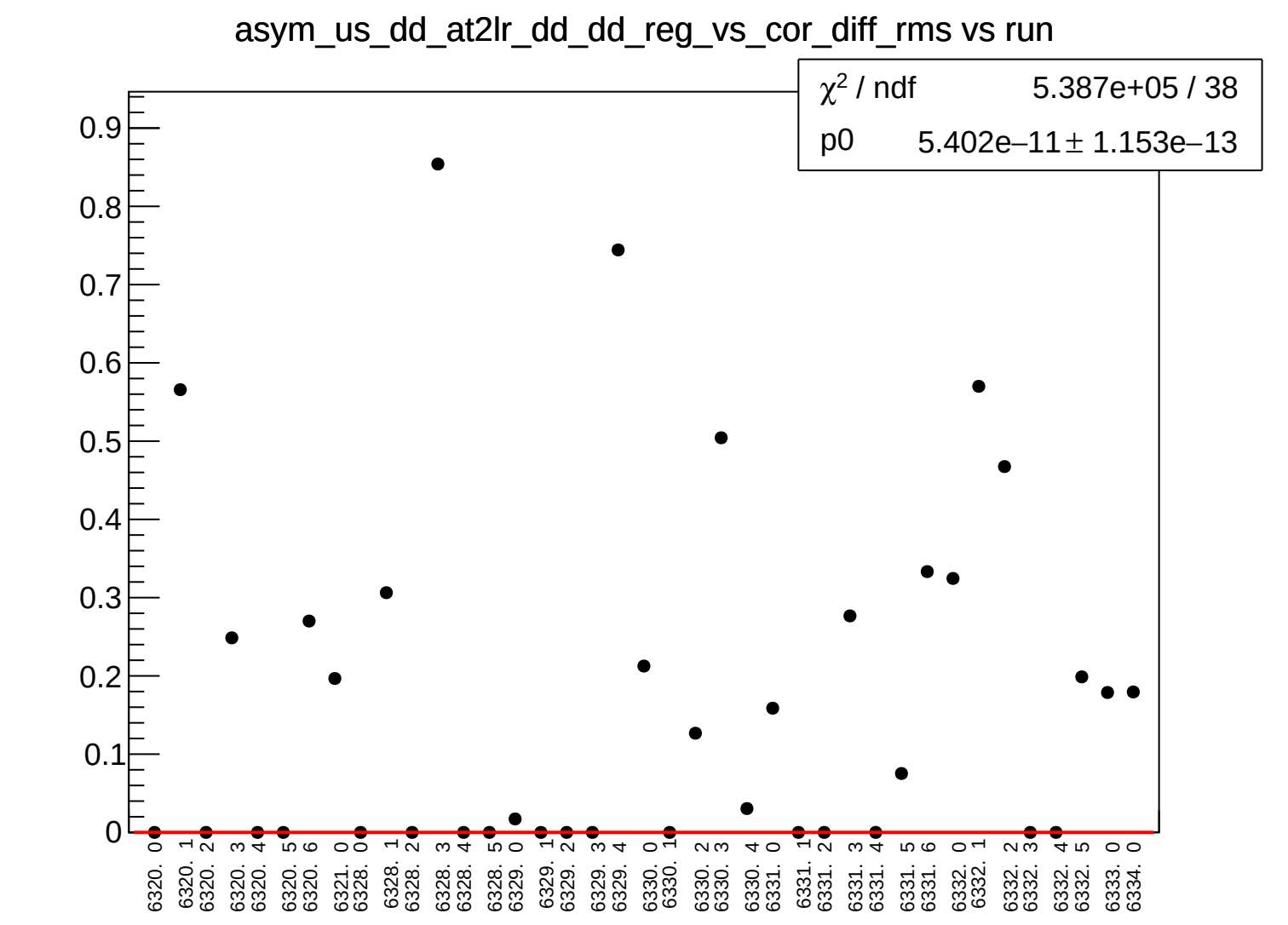
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

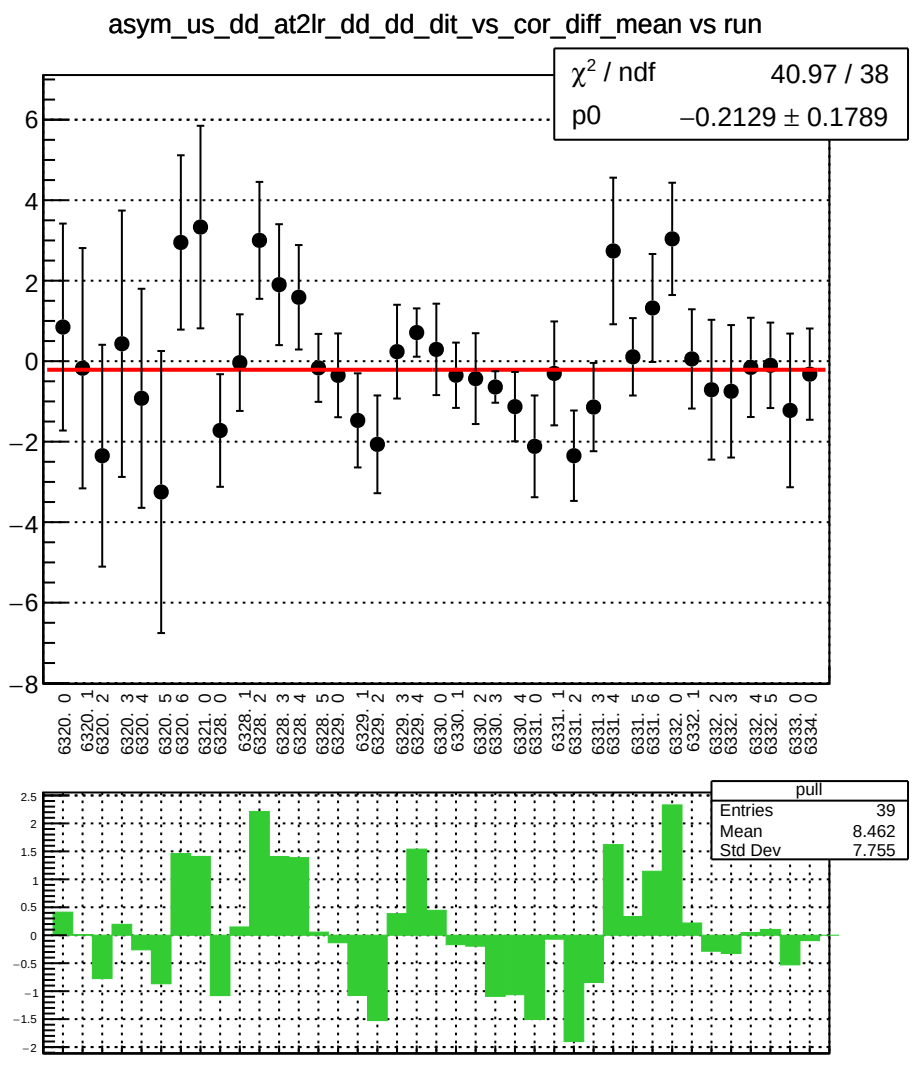

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 13.58 / 38
p0 1526 ± 5080
×10³
pull
Entries 39
Mean 123.4
Std Dev 0

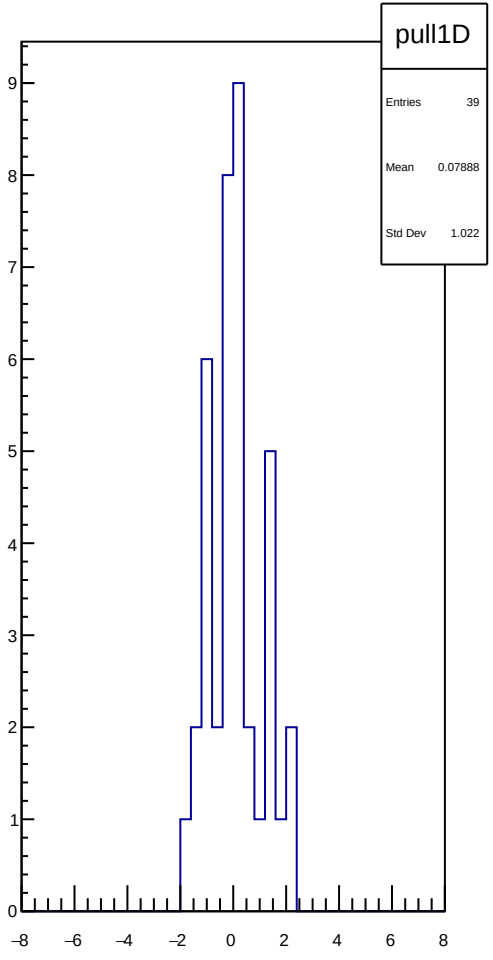

pull1D
Entries 39
Mean 0.008736
Std Dev 0.59

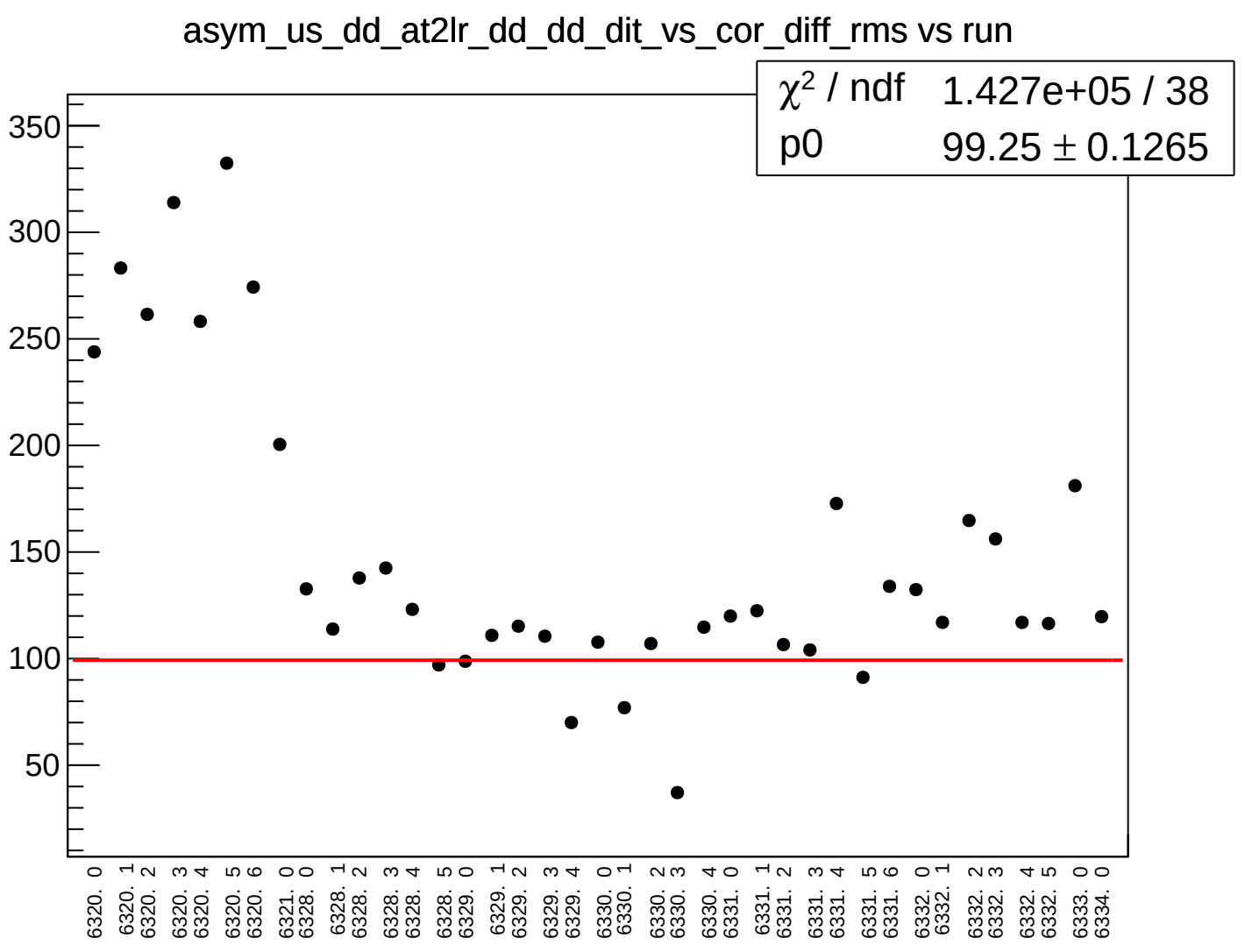

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1070 / 38
p0 3125 ± 3.592
3400
3300
3200
3100
3000
2900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

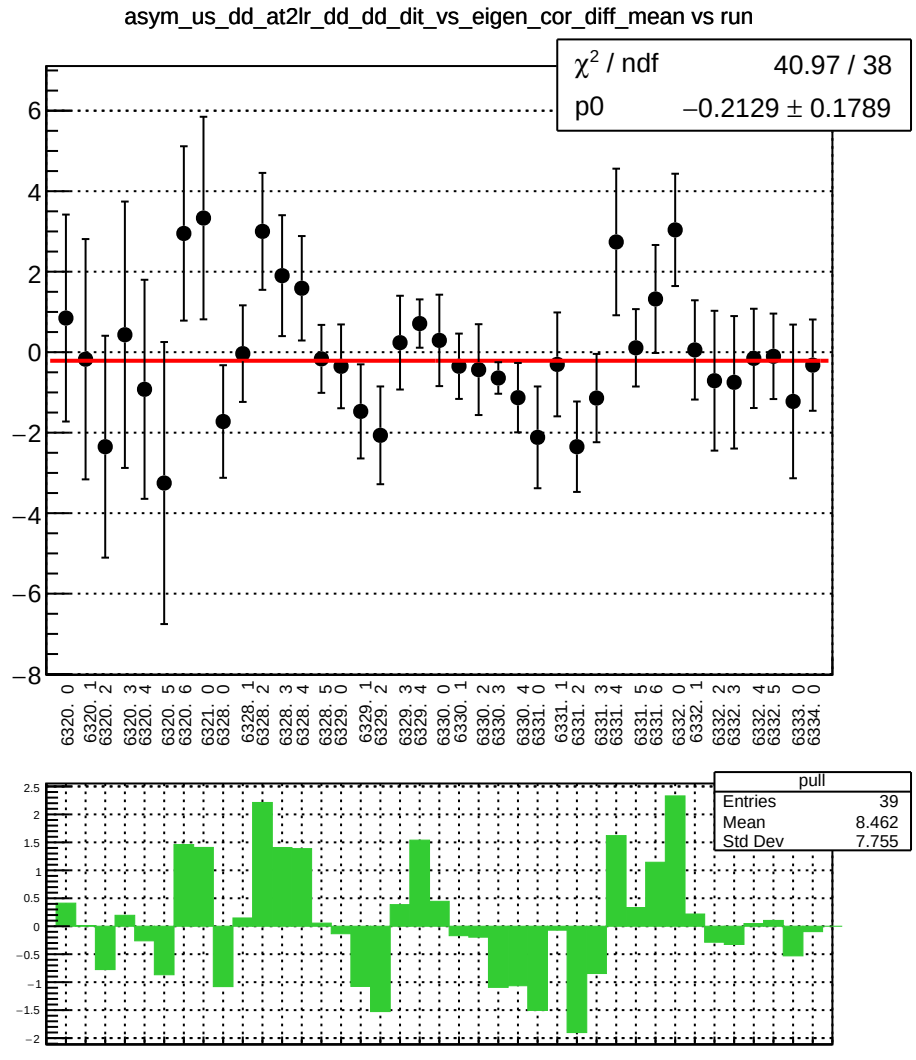

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.91 / 38
p0 −1.475e−15 ± 1.631e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.2175
Std Dev 1.22
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

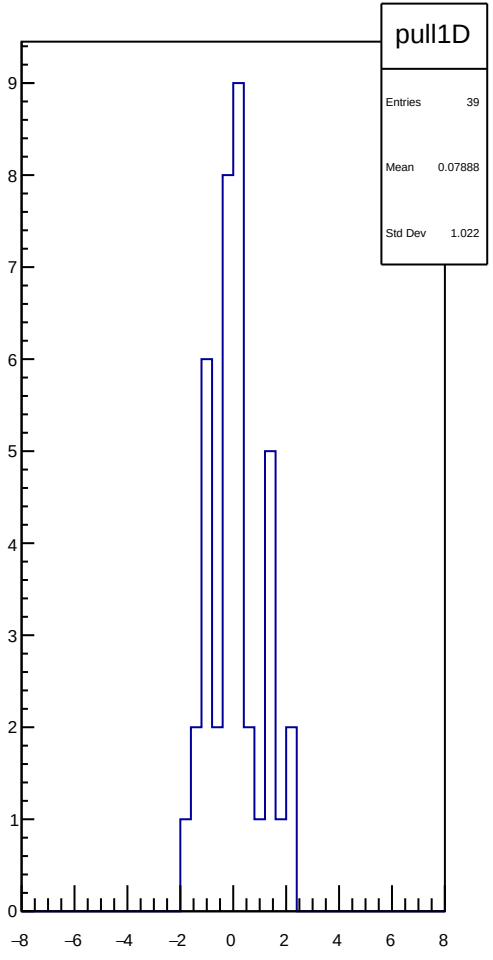

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 38
p0 5.402e−11 ± 1.153e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

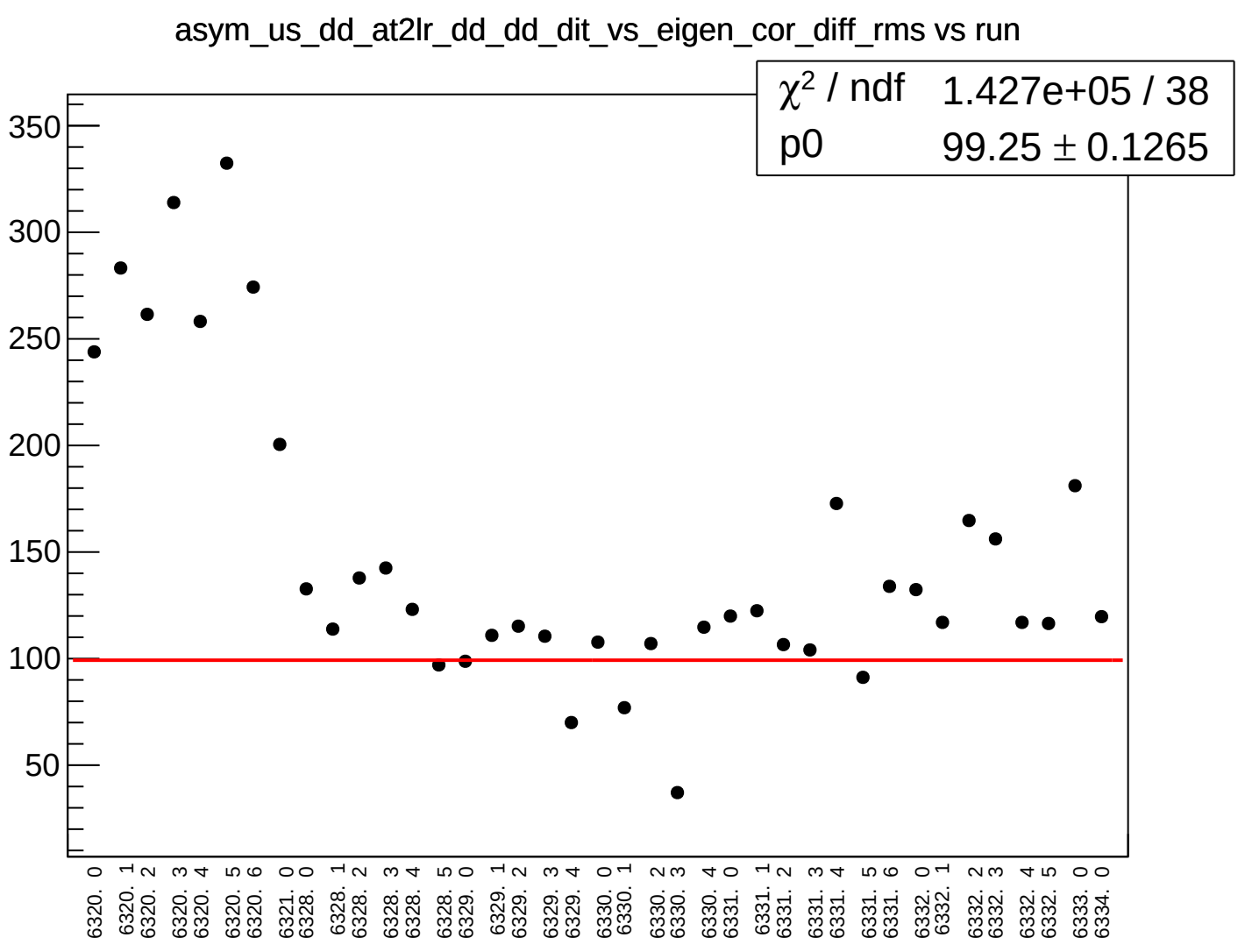

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 40.97 / 38
p0 −0.2129 ± 0.1789
pull
Entries 39
Mean 8.462
Std Dev 7.755

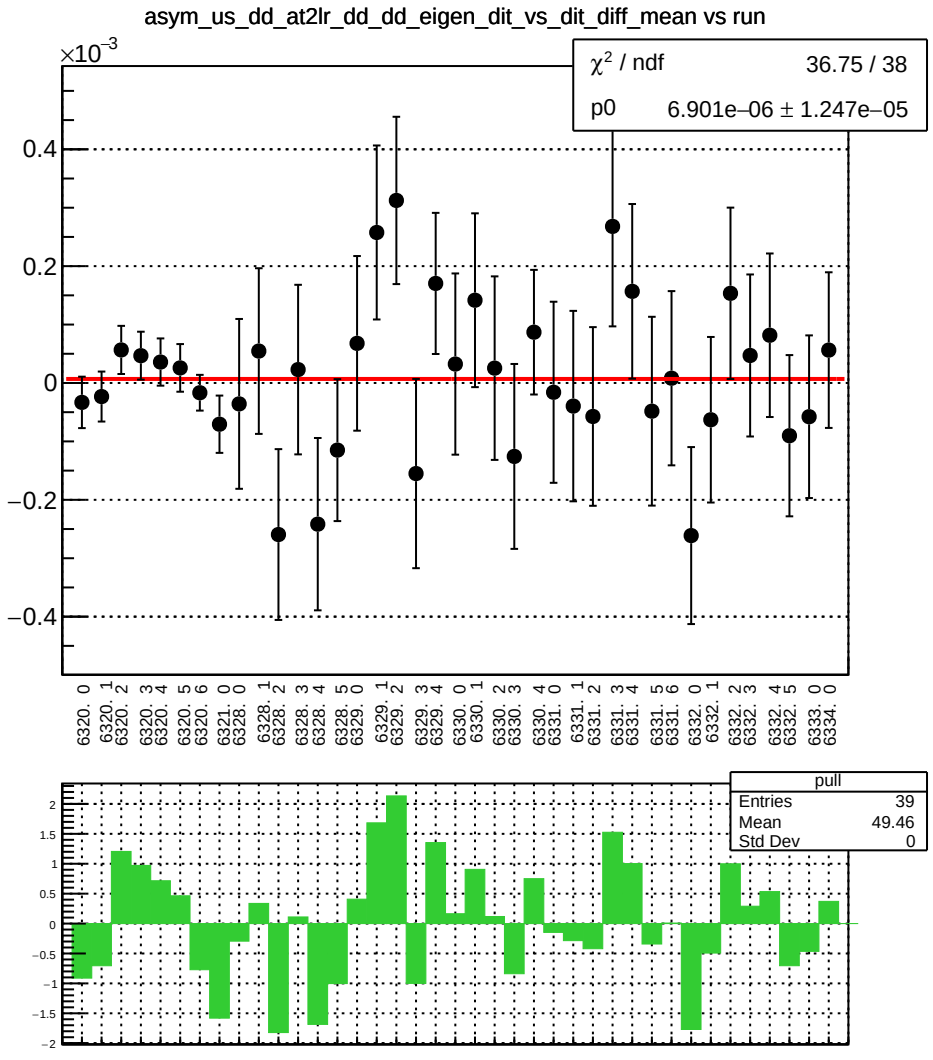

pull1D
Entries 39
Mean 0.07888
Std Dev 1.022

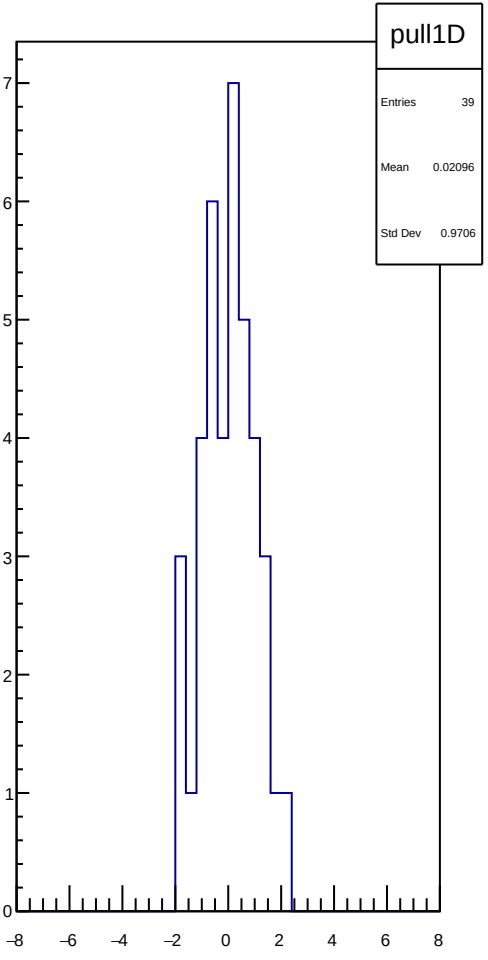

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 38
p0 99.25 ± 0.1265
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

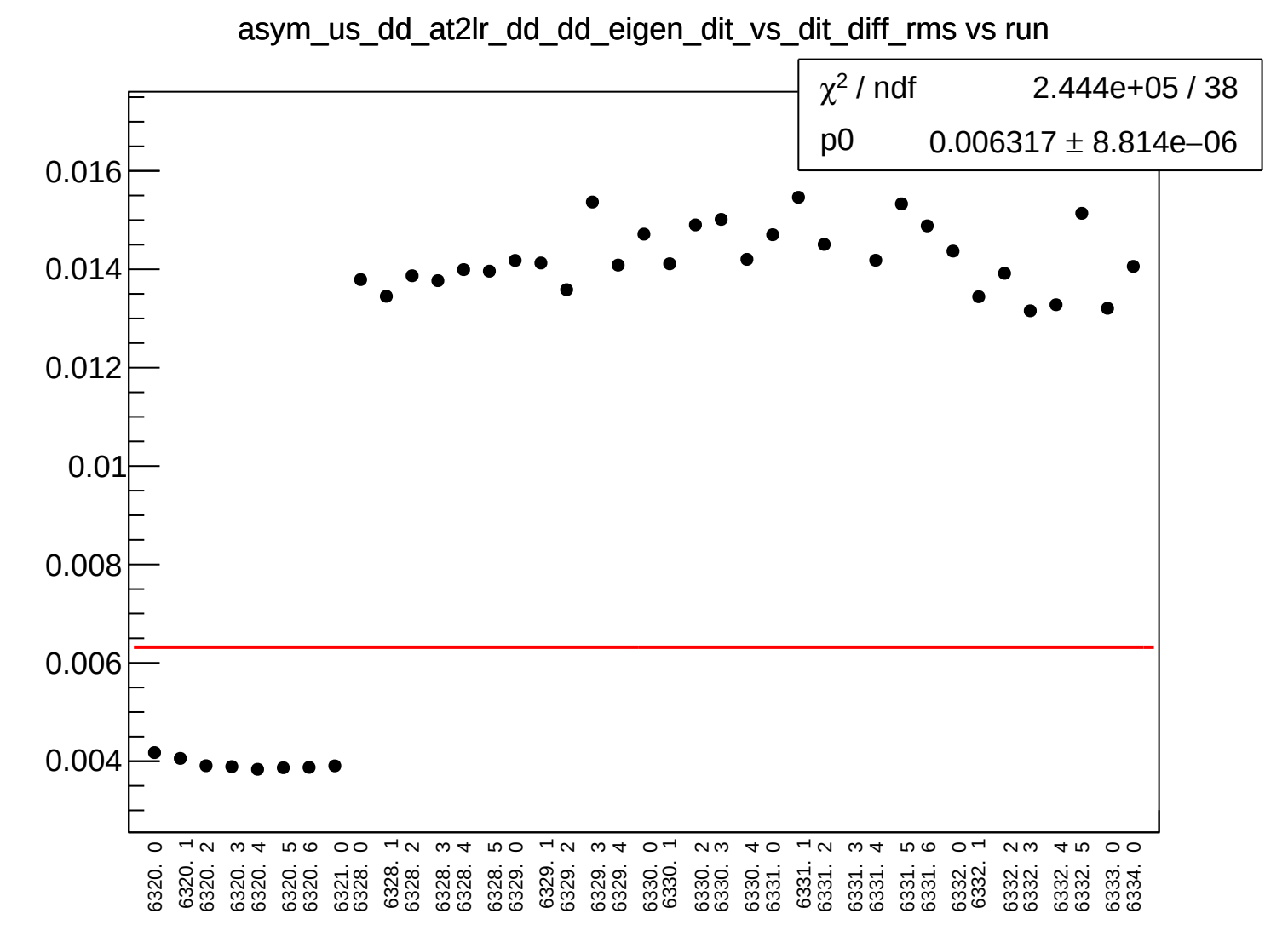

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.97 / 38
p0 −0.2129 ± 0.1789
pull
Entries 39
Mean 8.462
Std Dev 7.755

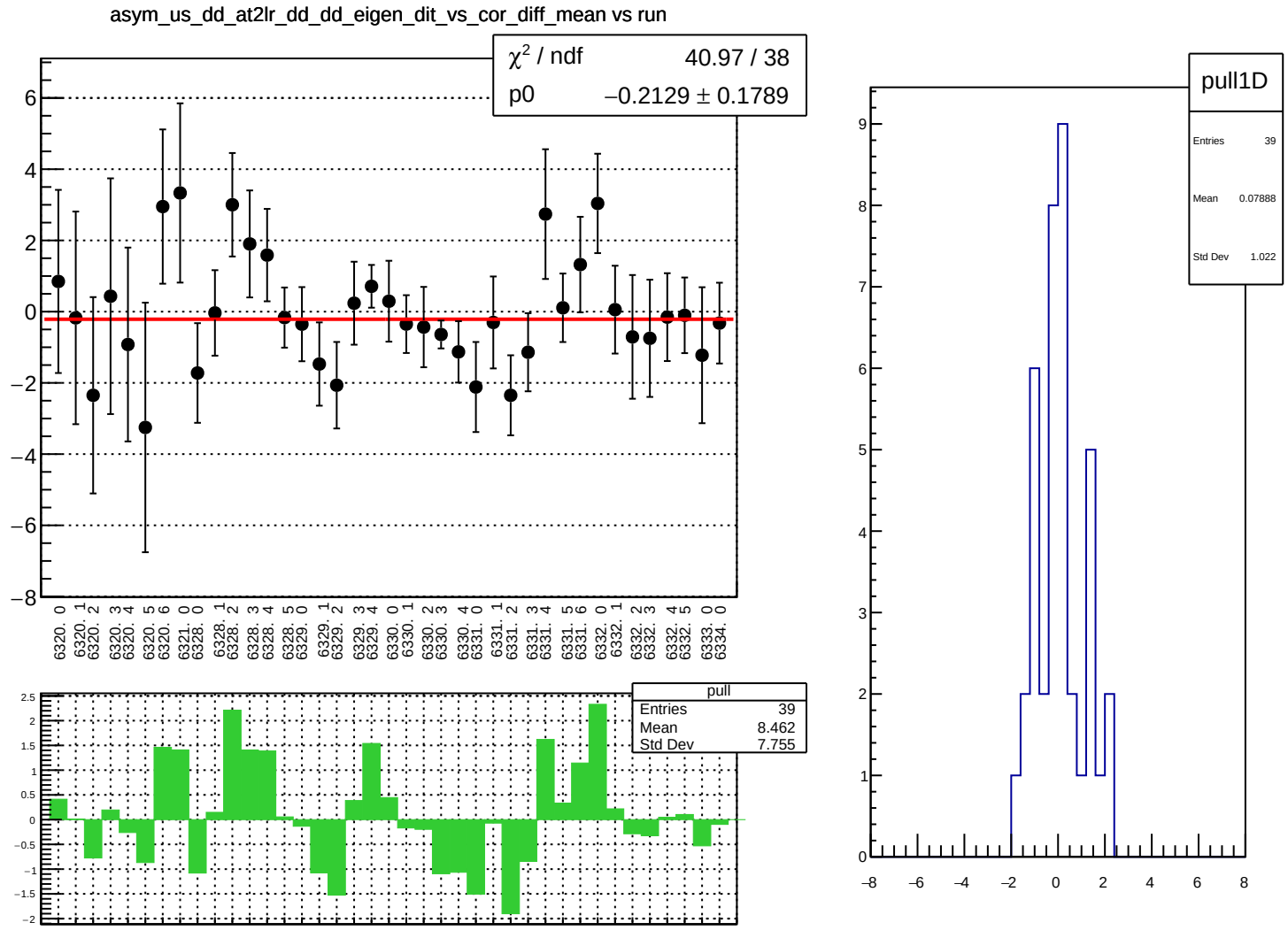

pull1D
Entries 39
Mean 0.07888
Std Dev 1.022

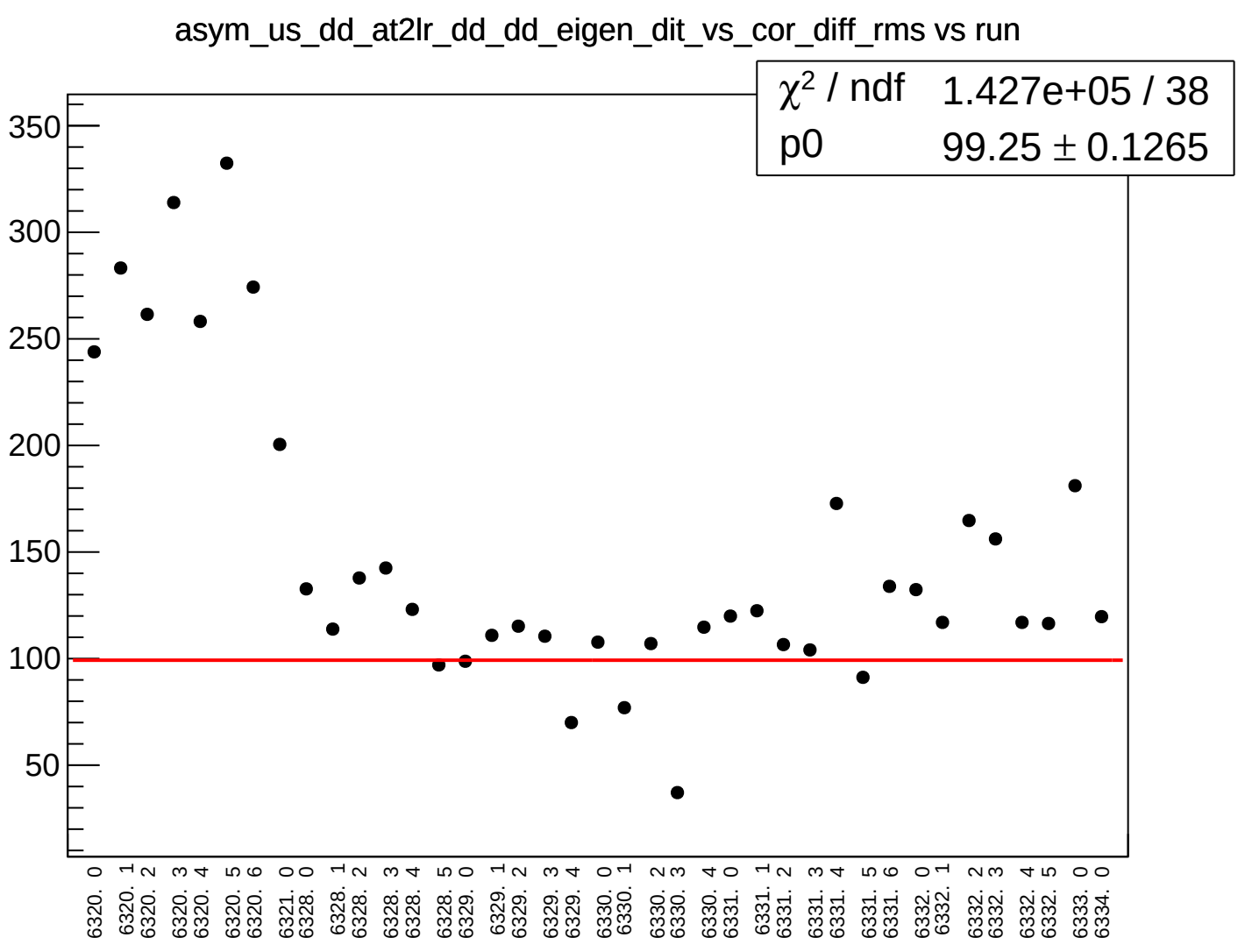

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 38
p0 99.25 ± 0.1265
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

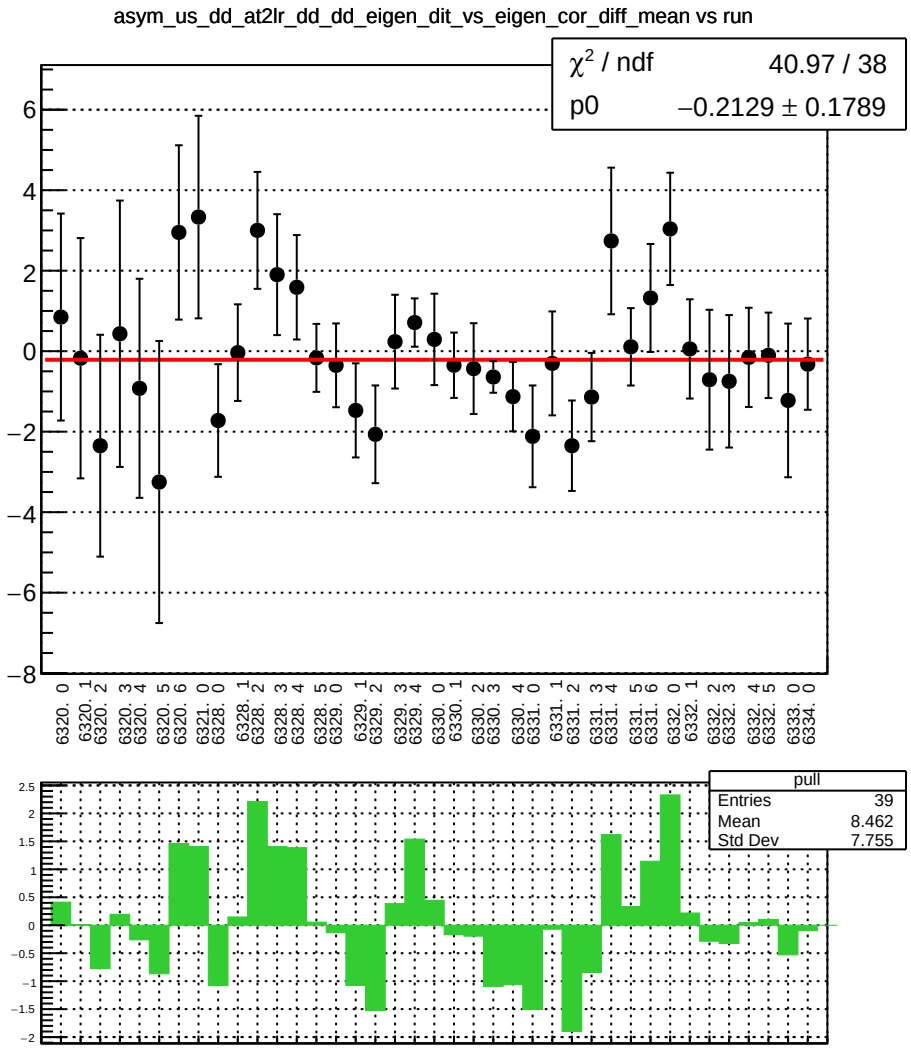

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.75 / 38
p0 6.901e−06 ± 1.247e−05
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

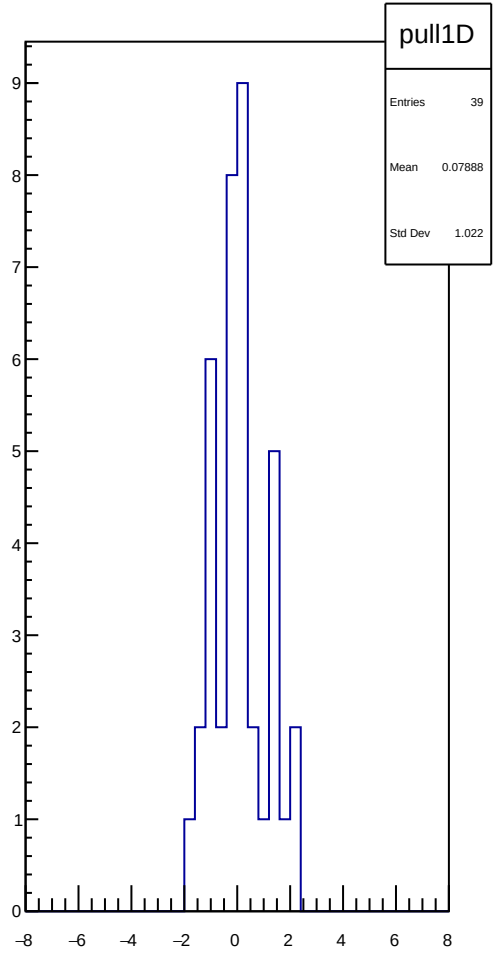

pull1D
Entries 39
Mean 0.02096
Std Dev 0.9706
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

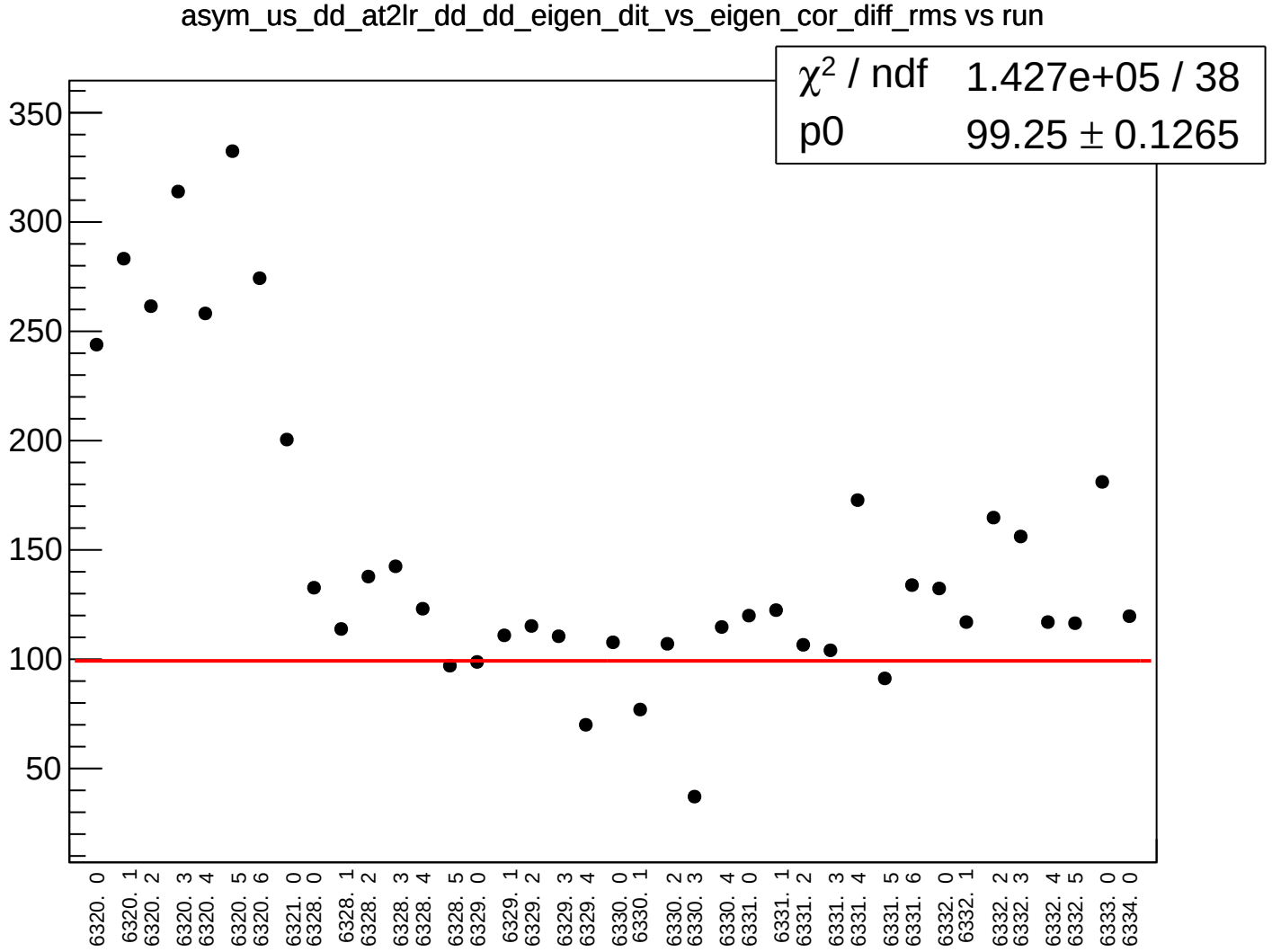

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.444e+05 / 38
p0 0.006317 ± 8.814e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

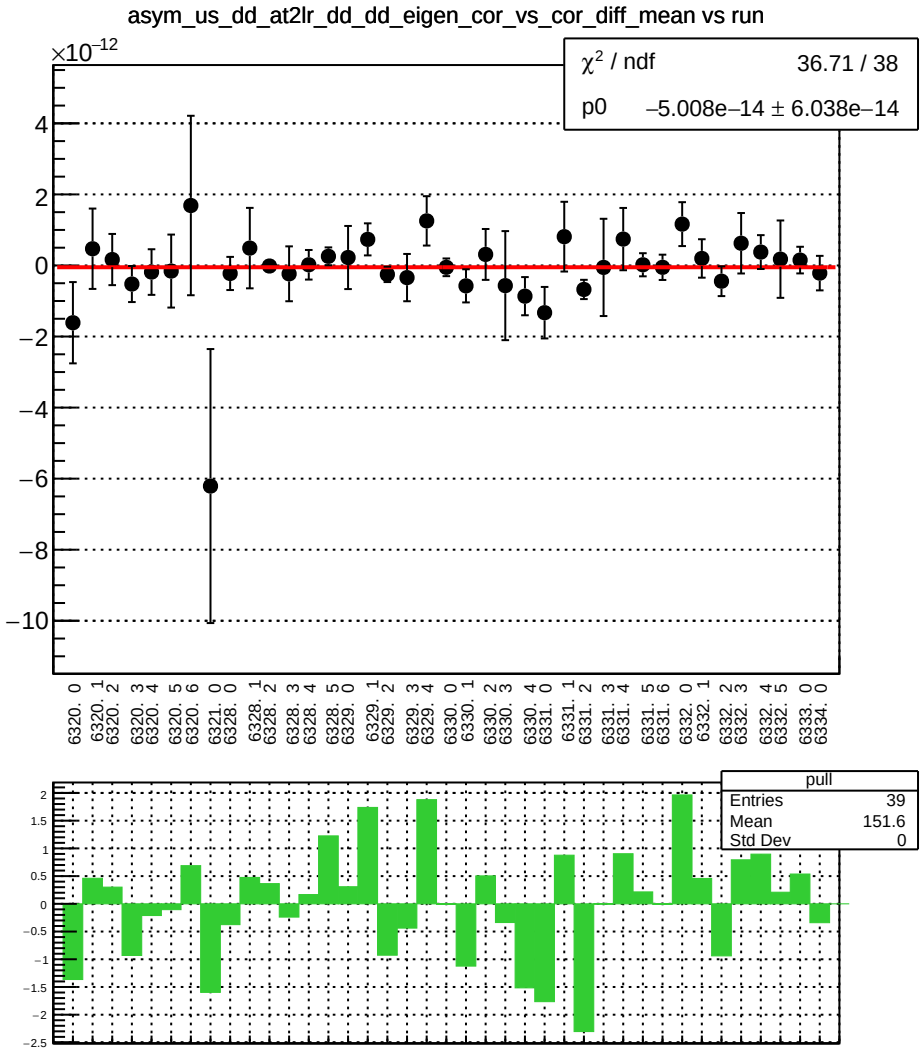

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.97 / 38
p0 −0.2129 ± 0.1789
pull
Entries 39
Mean 8.462
Std Dev 7.755
pull1D
Entries 39
Mean 0.07888
Std Dev 1.022

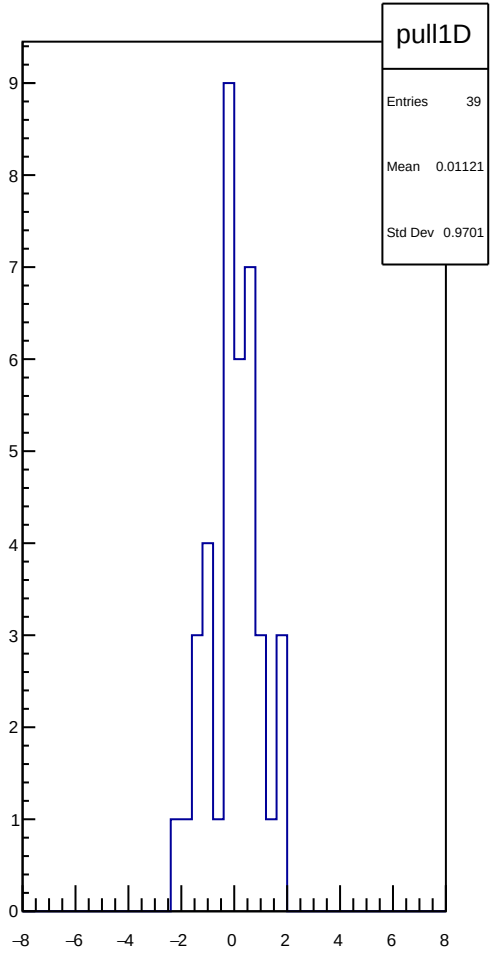

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 38
p0 99.25 ± 0.1265
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

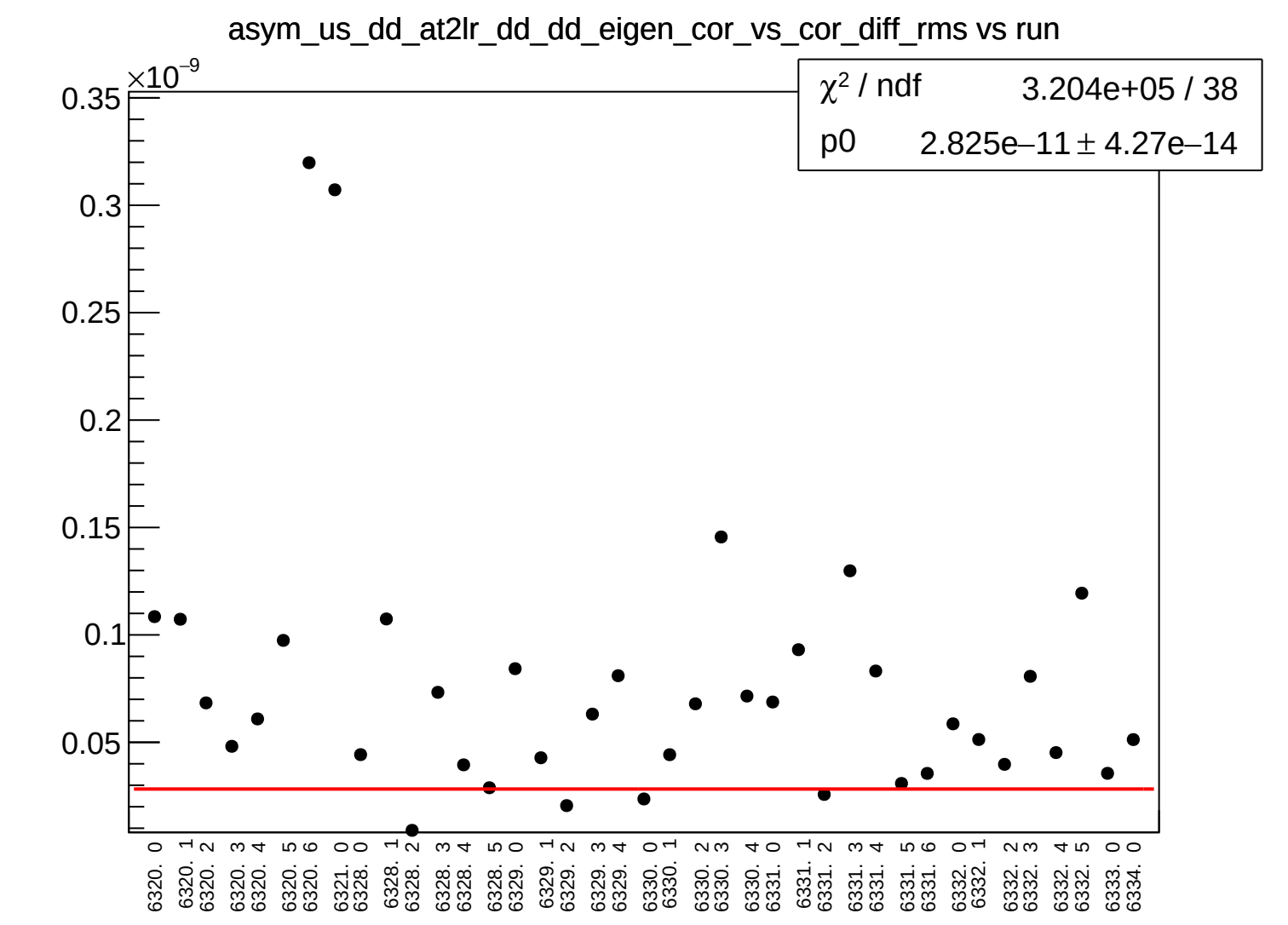

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.97 / 38
p0 −0.2129 ± 0.1789
pull
Entries 39
Mean 8.462
Std Dev 7.755

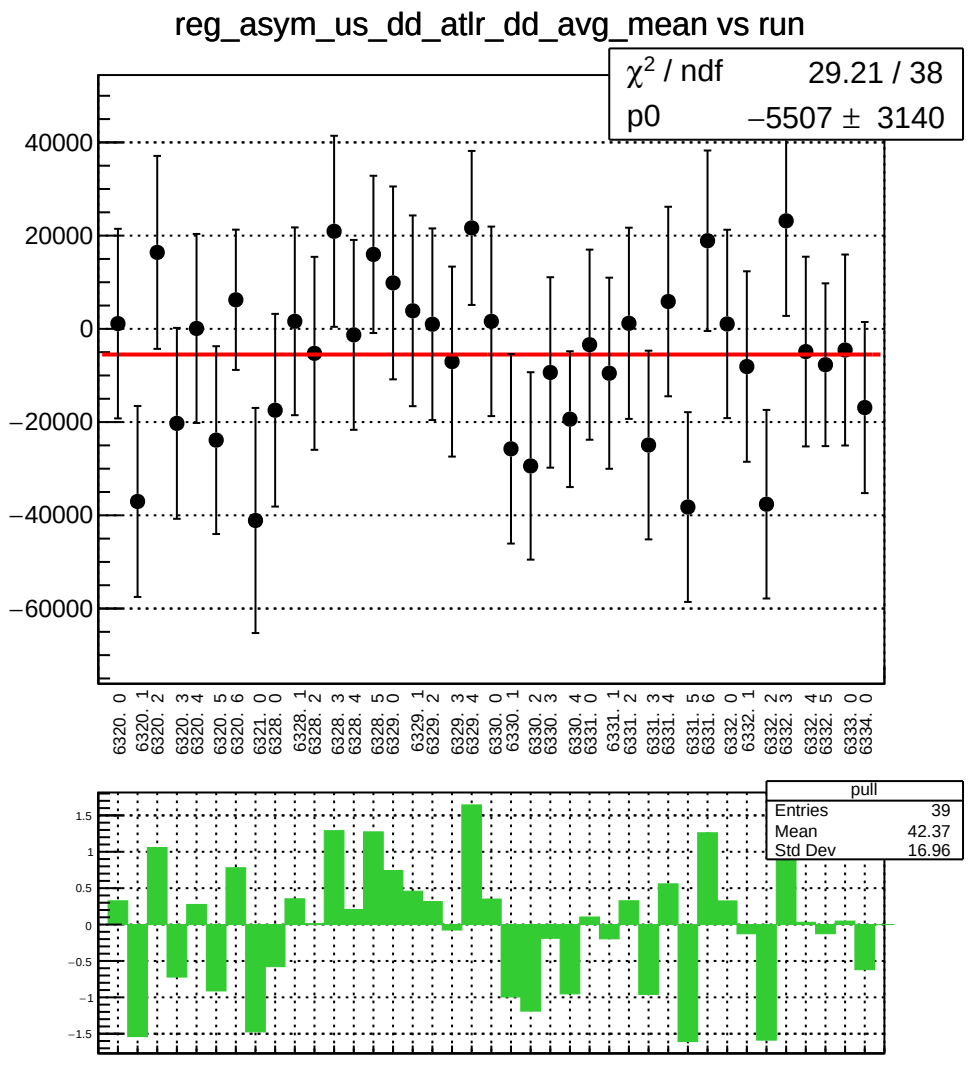

pull1D
Entries 39
Mean 0.07888
Std Dev 1.022

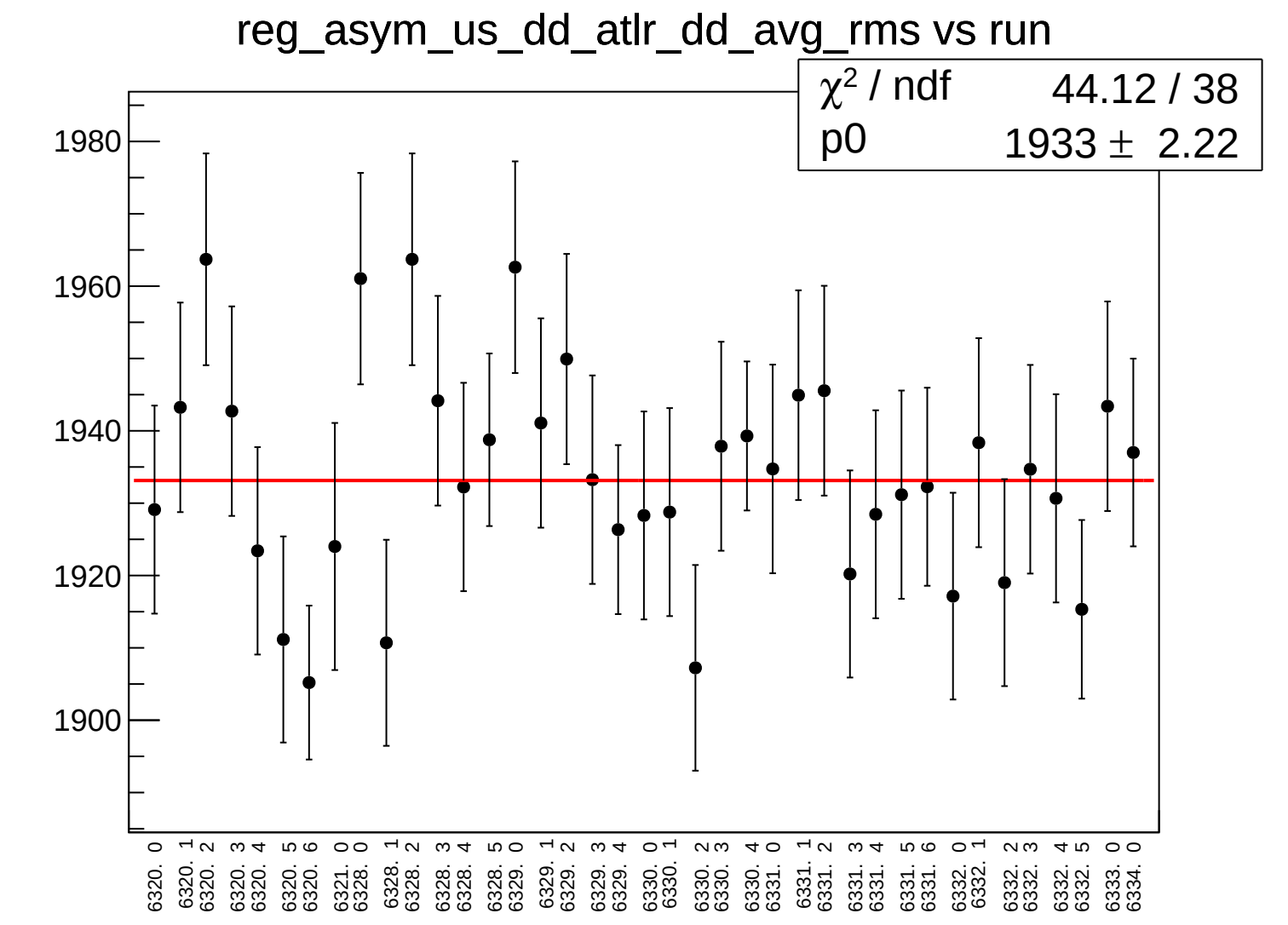

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 38
p0 99.25 ± 0.1265
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

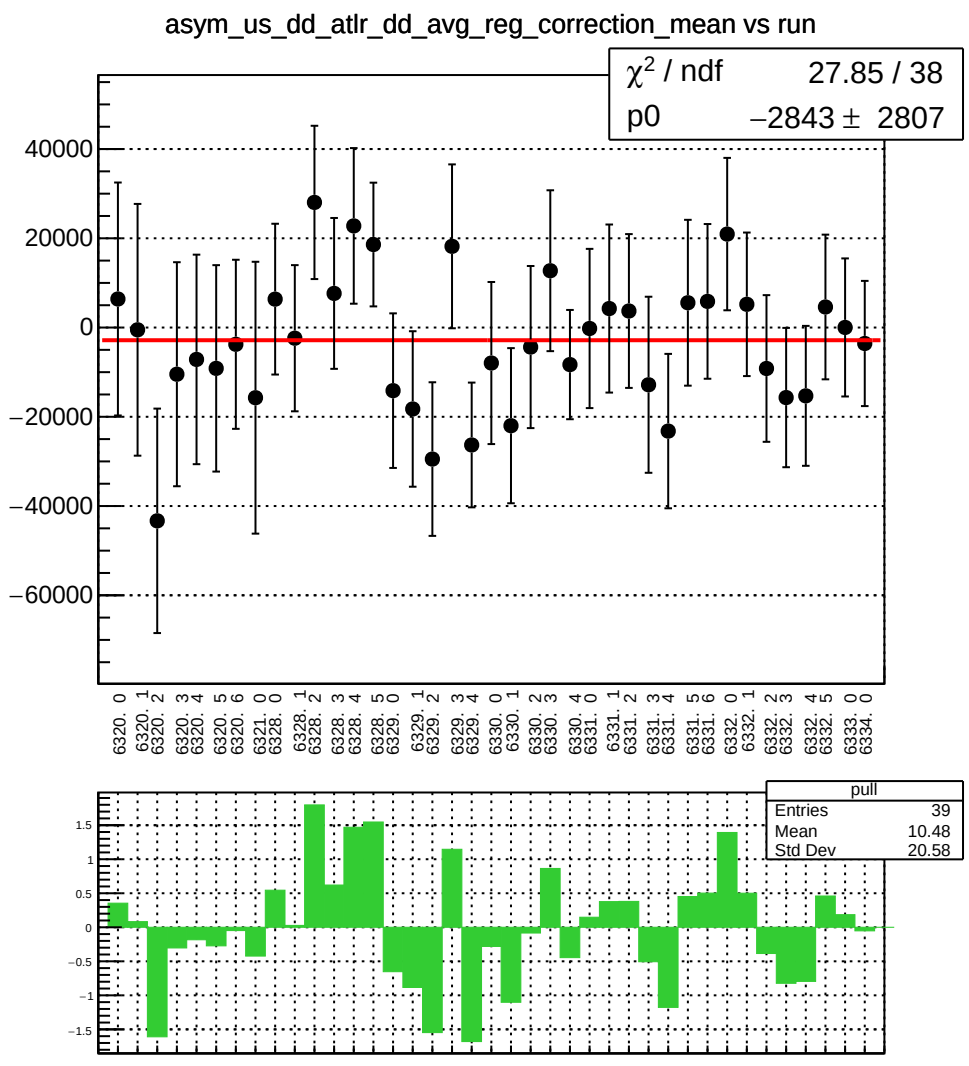

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.71 / 38
p0 −5.008e−14 ± 6.038e−14
pull
Entries 39
Mean 151.6
Std Dev 0

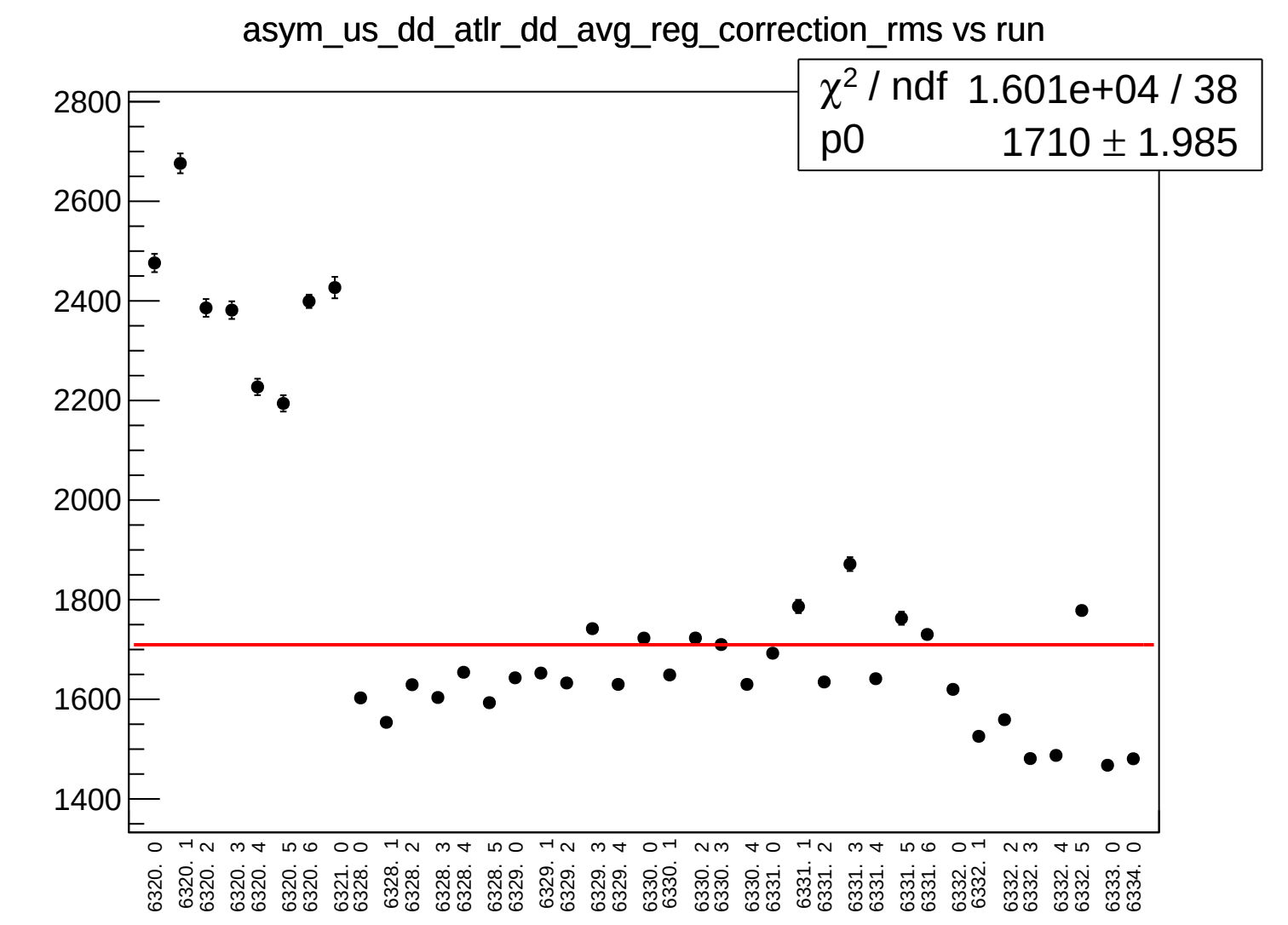

pull1D
Entries 39
Mean 0.01121
Std Dev 0.9701

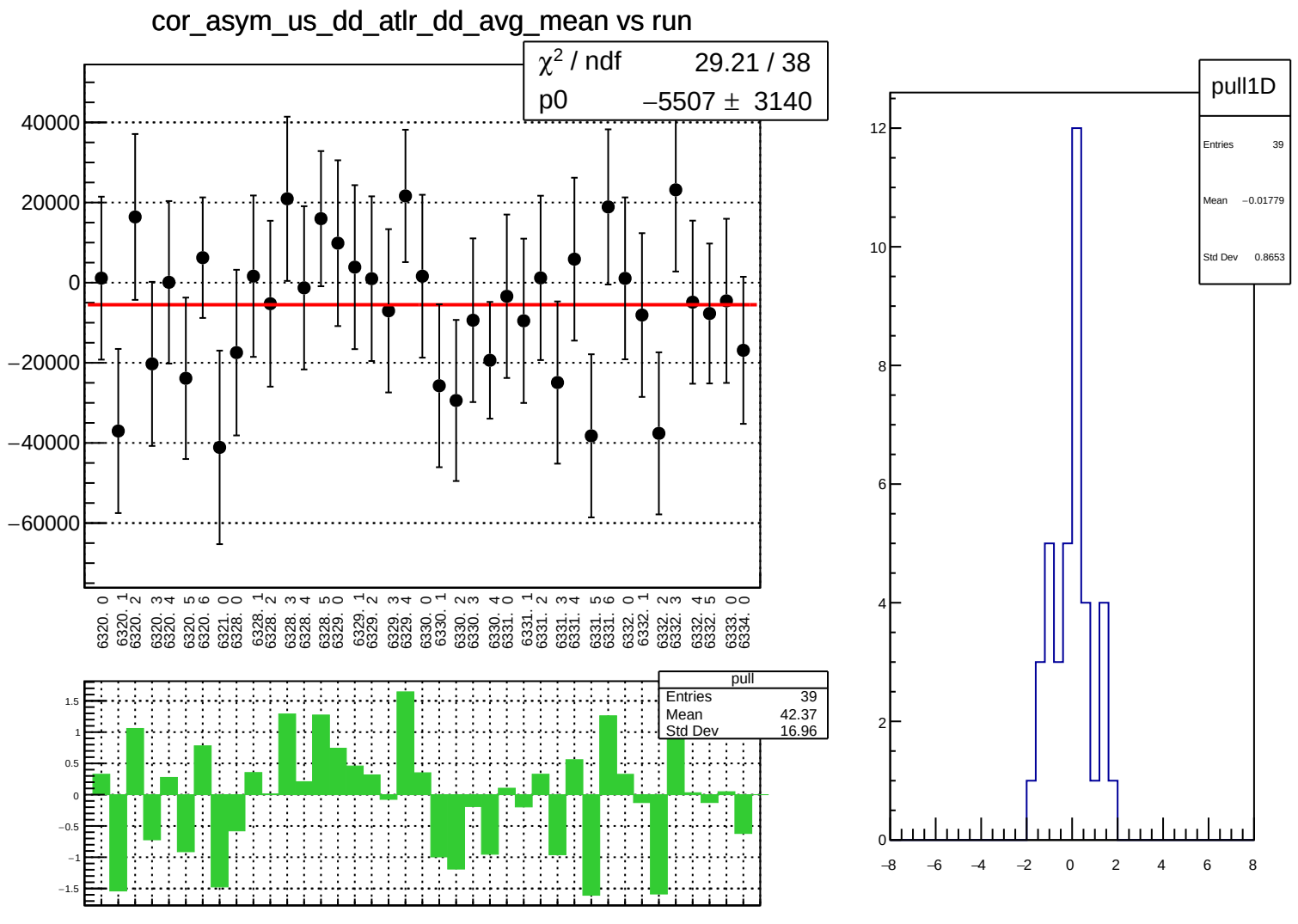

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.204e+05 / 38
p0 2.825e−11 ± 4.27e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

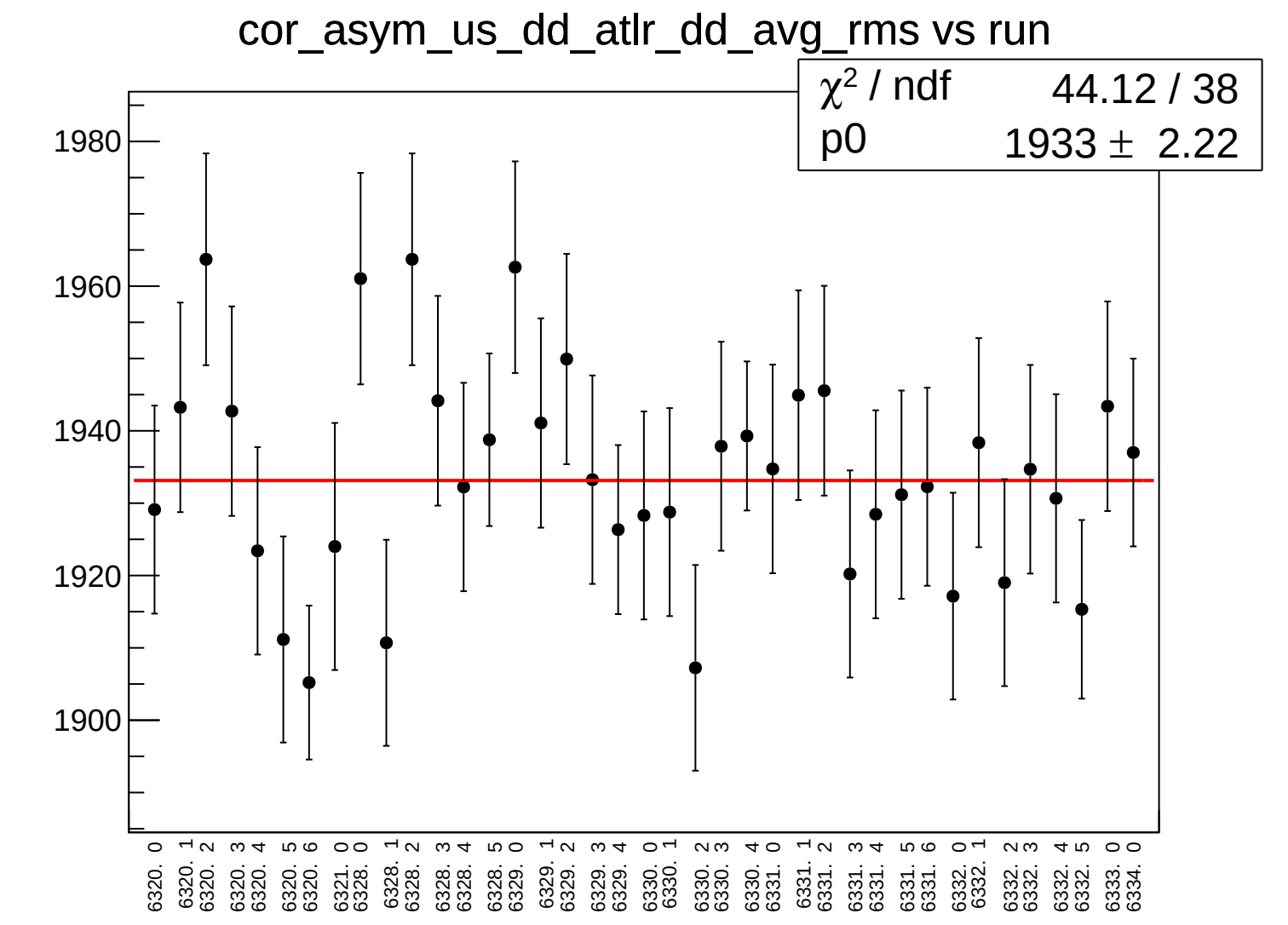

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 29.21 / 38
p0 −5507 ± 3140
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.37
Std Dev 16.96
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0178
Std Dev 0.8653
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

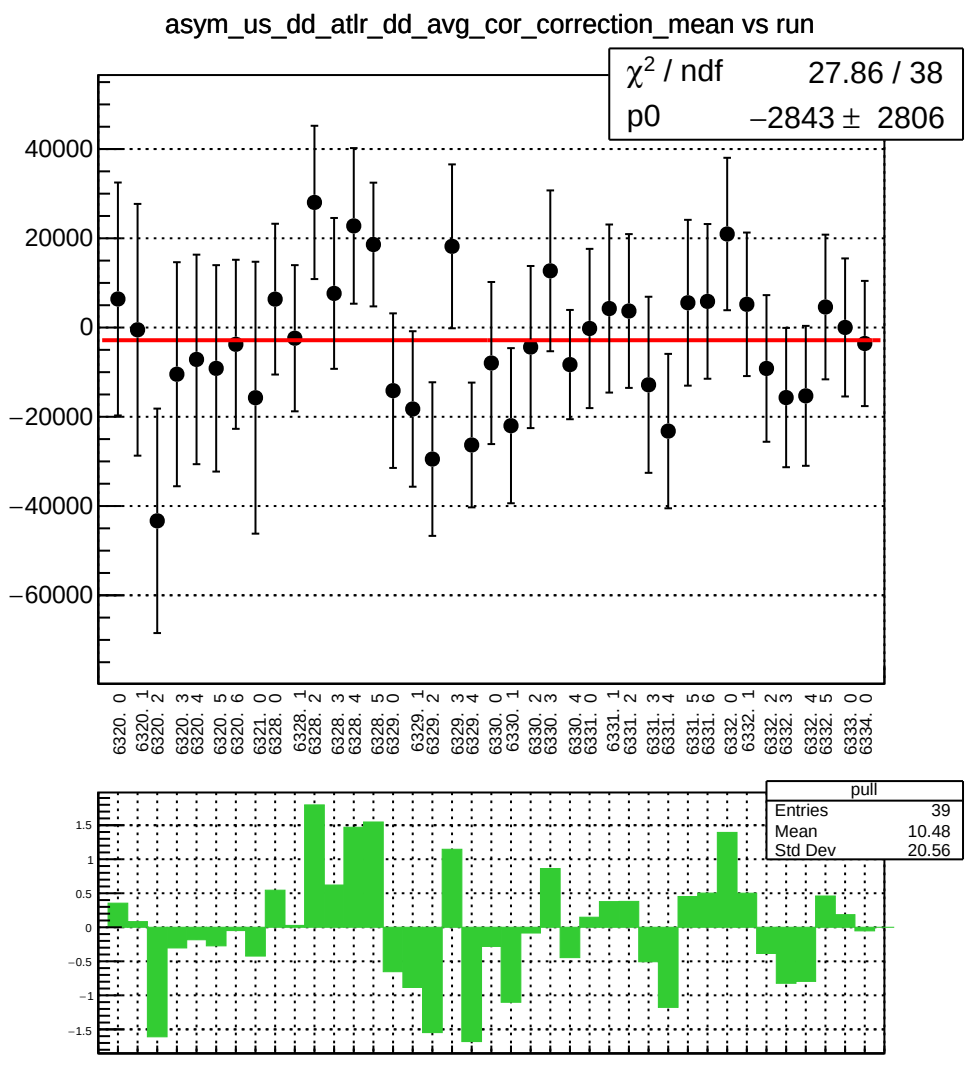

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 44.12 / 38
p0 1933 ± 2.22
1980
1960
1940
1920
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

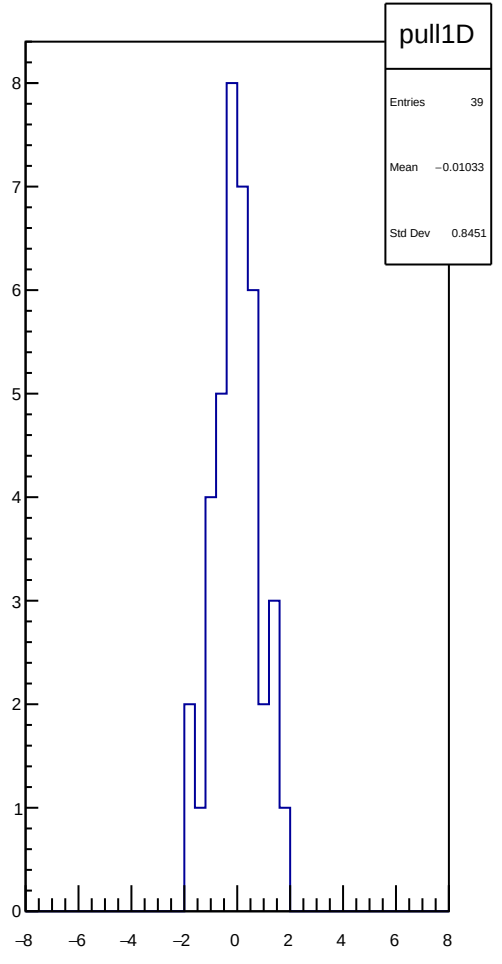

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 27.85 / 38
p0 −2843 ± 2807
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.48
Std Dev 20.58
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01032
Std Dev 0.845
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.601e+04 / 38
p0 1710 ± 1.985
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 29.21 / 38
p0 −5507 ± 3140
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.37
Std Dev 16.96
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01779
Std Dev 0.8653
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 44.12 / 38
p0 1933 ± 2.22
1980
1960
1940
1920
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 27.86 / 38
p0 −2843 ± 2806
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.48
Std Dev 20.56
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01033
Std Dev 0.8451
8
7
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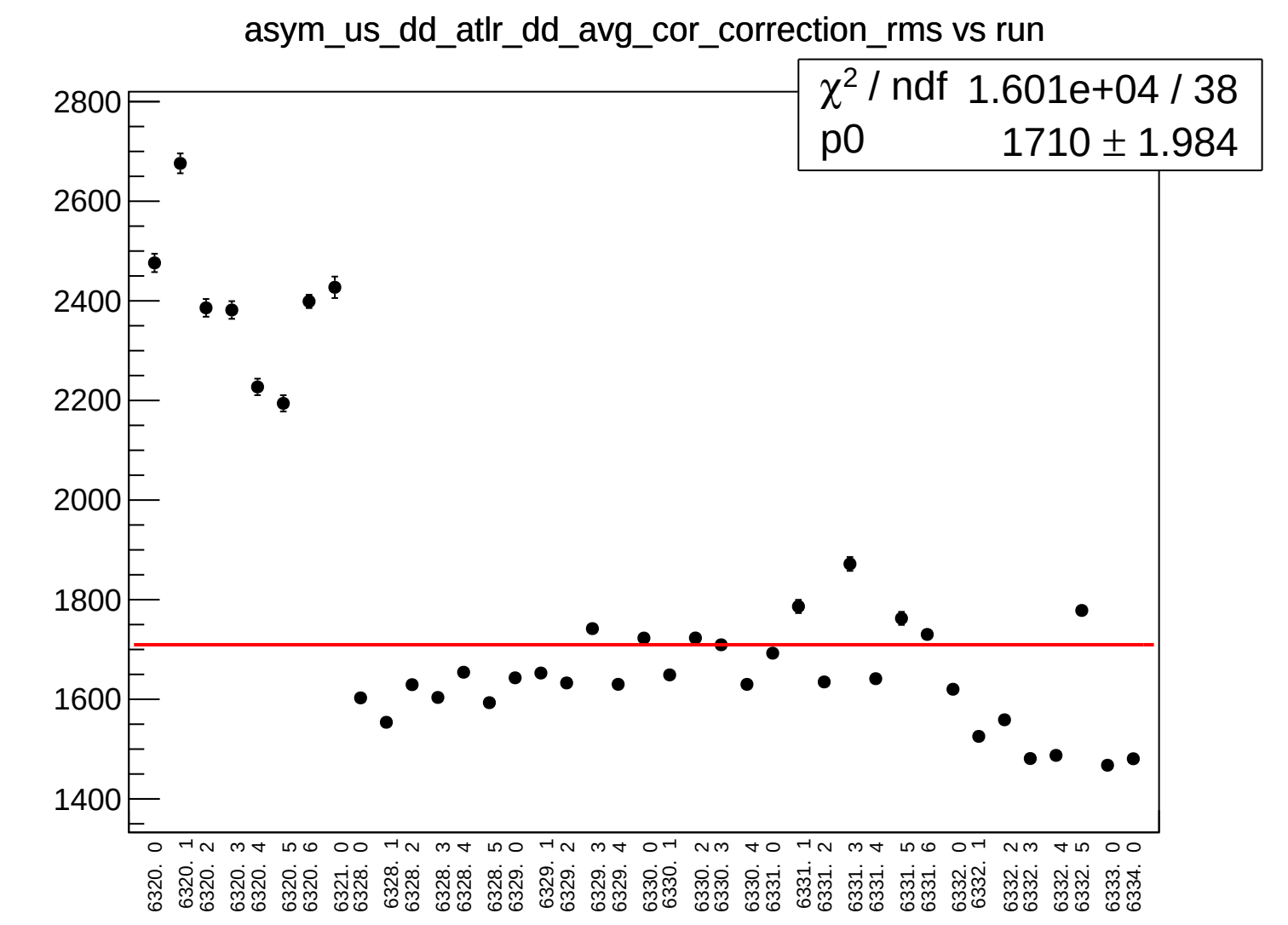
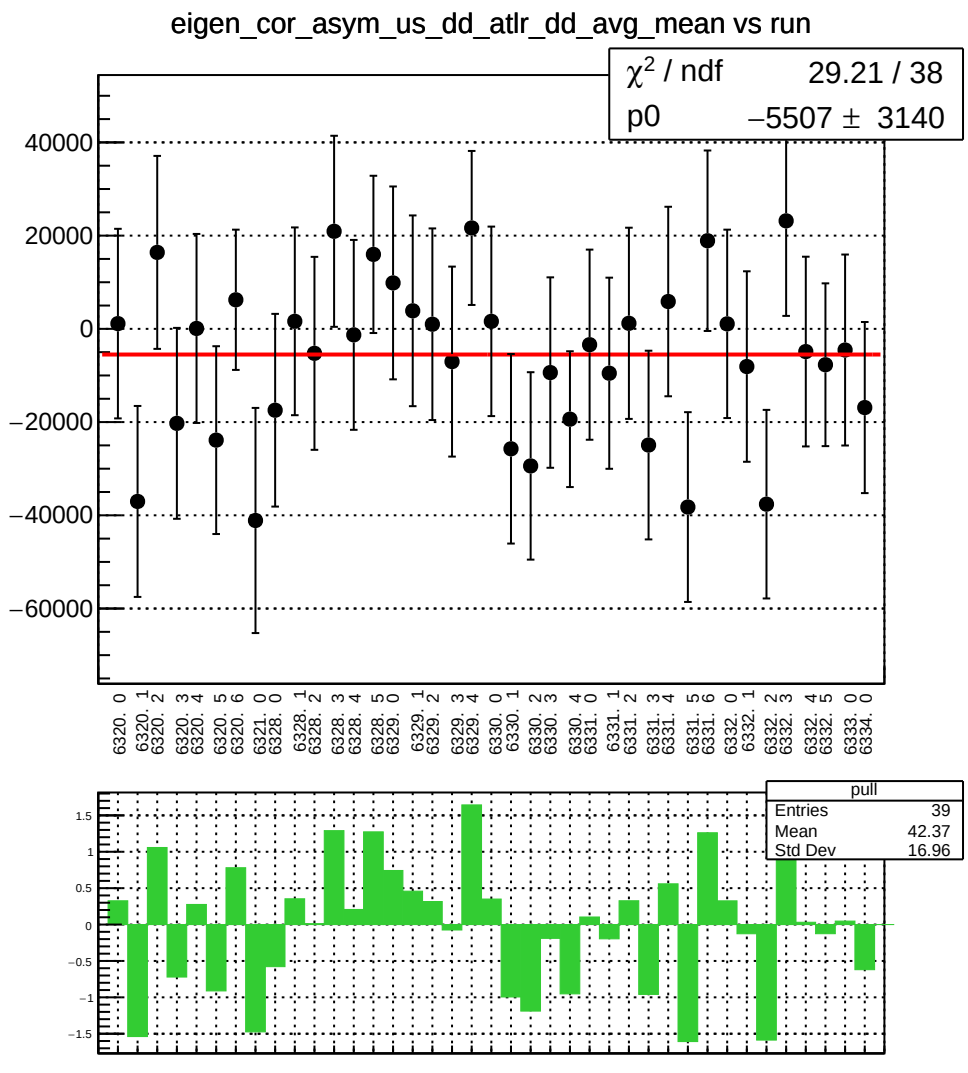
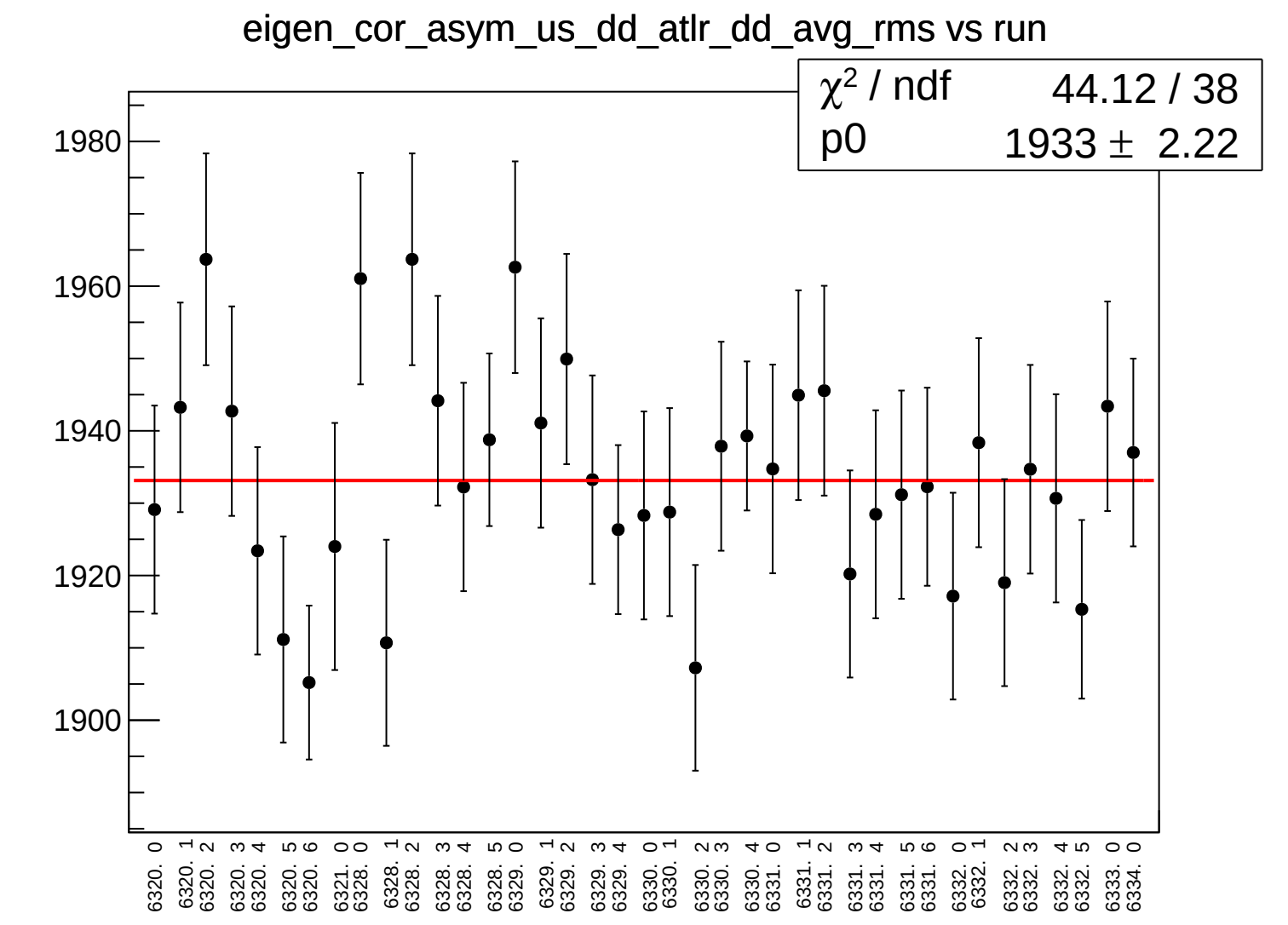
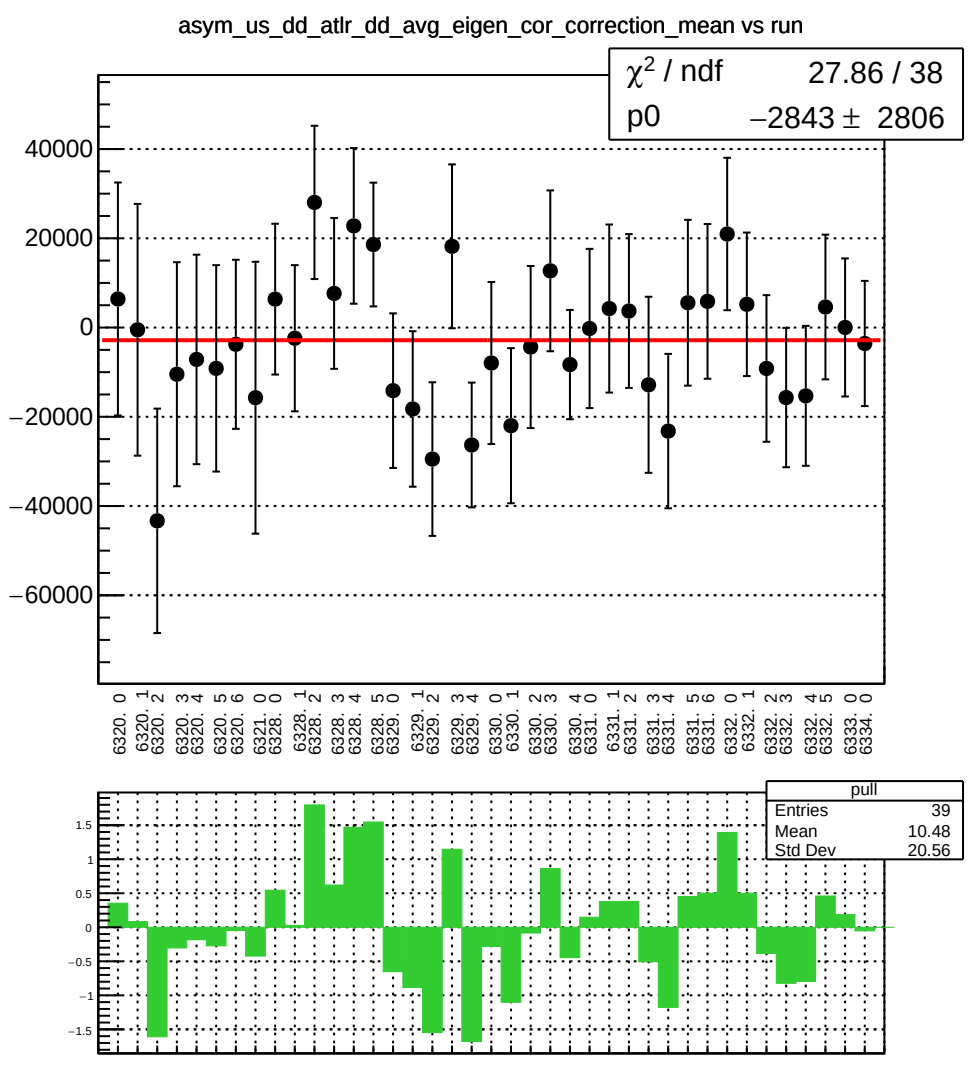
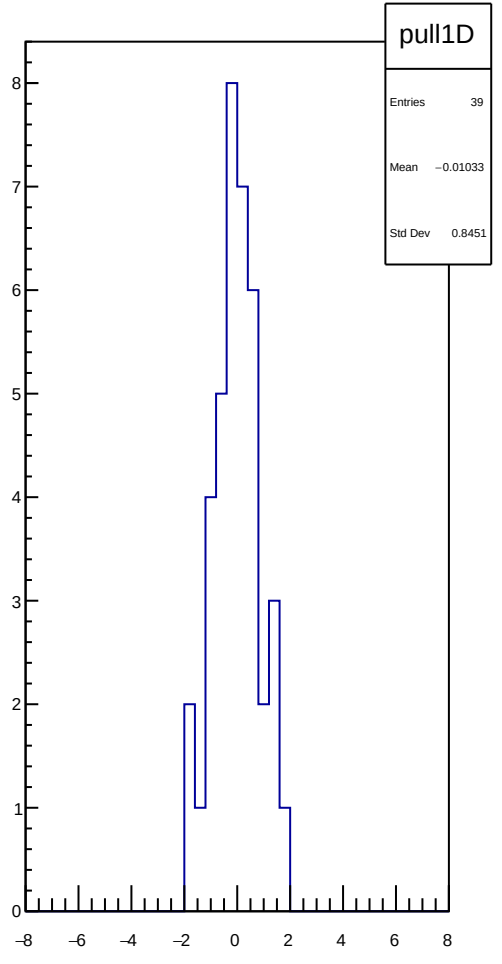
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.601e+04 / 38
p0 1710 ± 1.984
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 29.21 / 38
p0 −5507 ± 3140
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.37
Std Dev 16.96
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01779
Std Dev 0.8653
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 44.12 / 38
p0 1933 ± 2.22
1980
1960
1940
1920
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.86 / 38
p0 −2843 ± 2806
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 10.48
Std Dev 20.56
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01033
Std Dev 0.8451
8
7
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5
4
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1
0
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−6
−4
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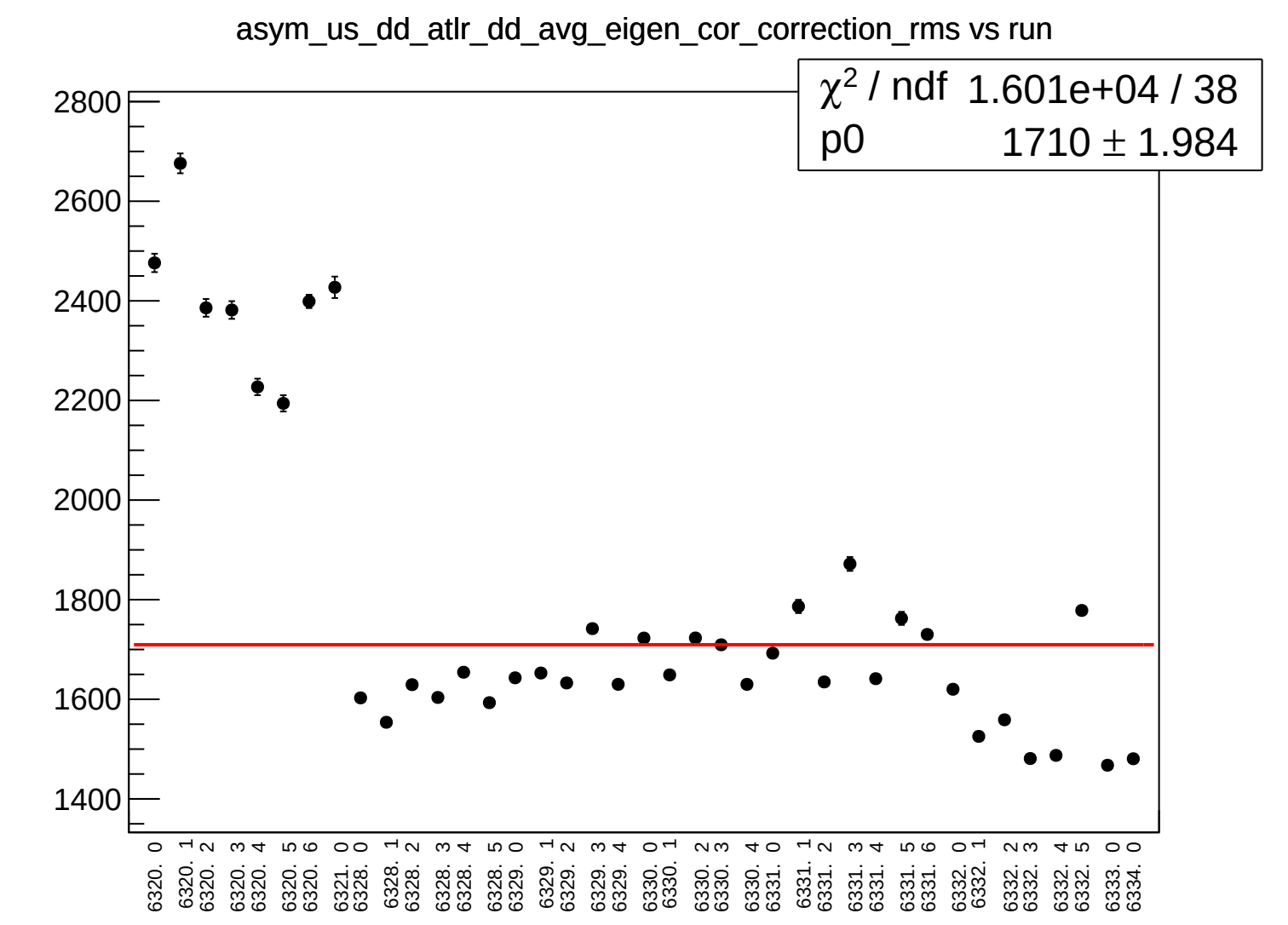
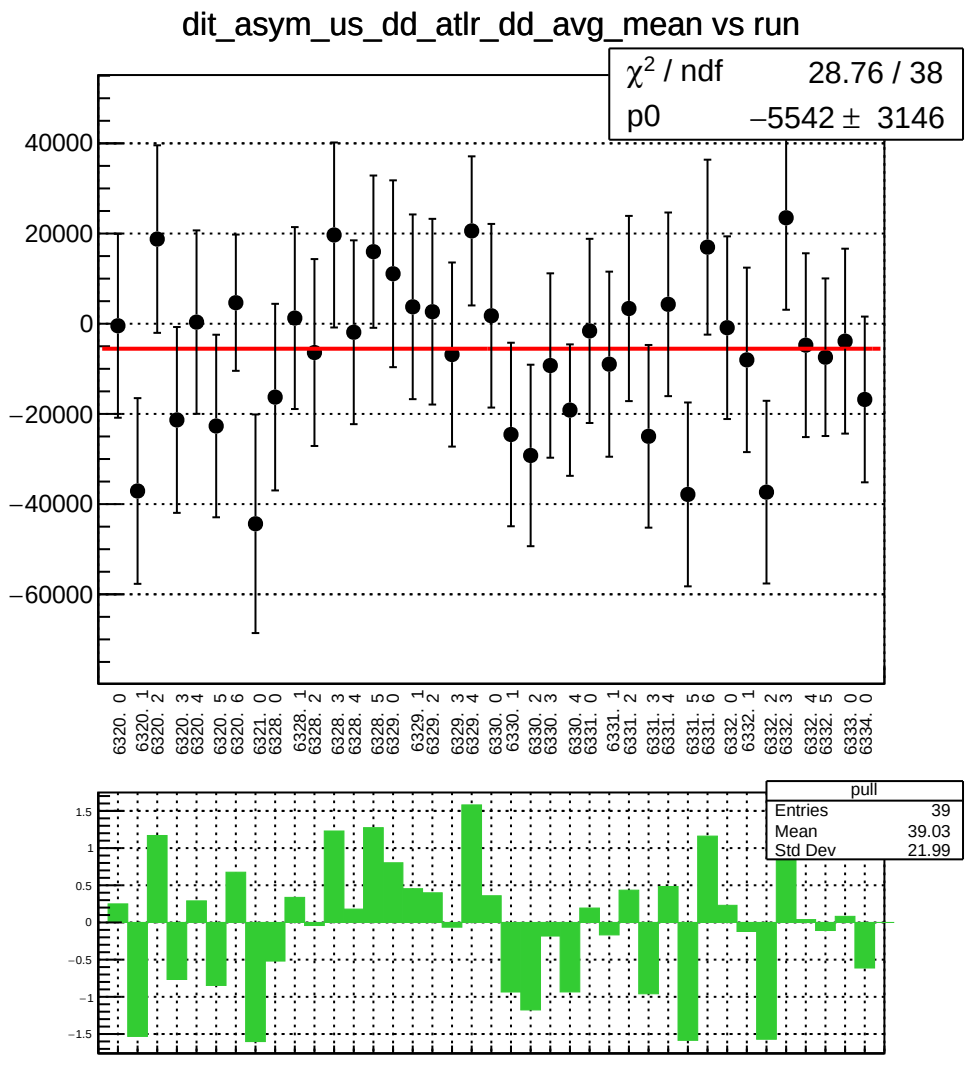
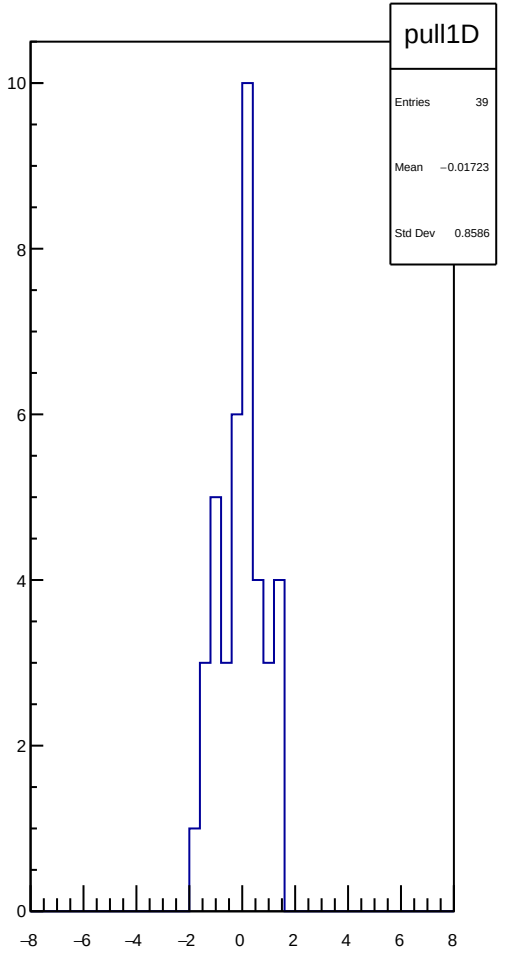
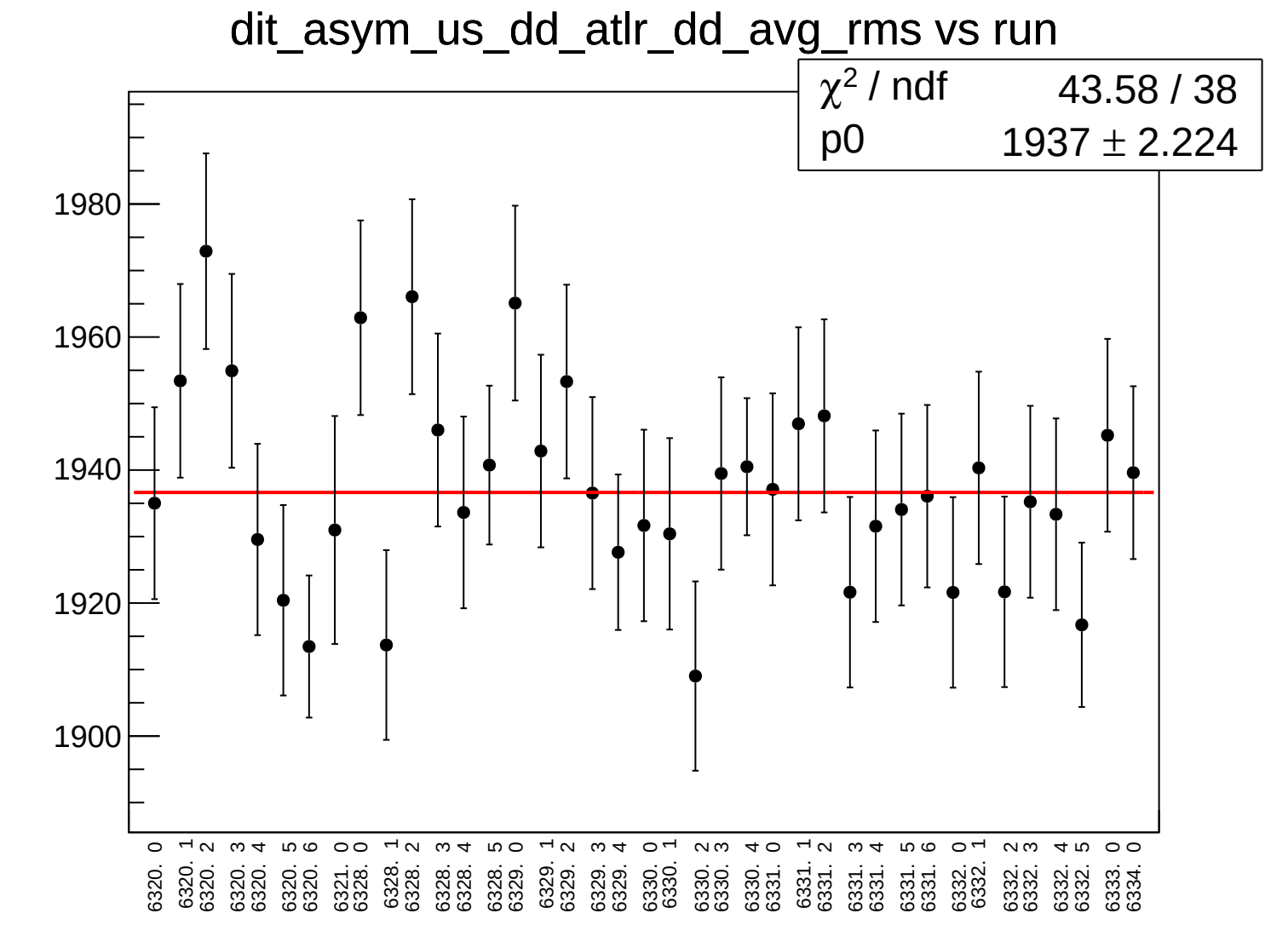
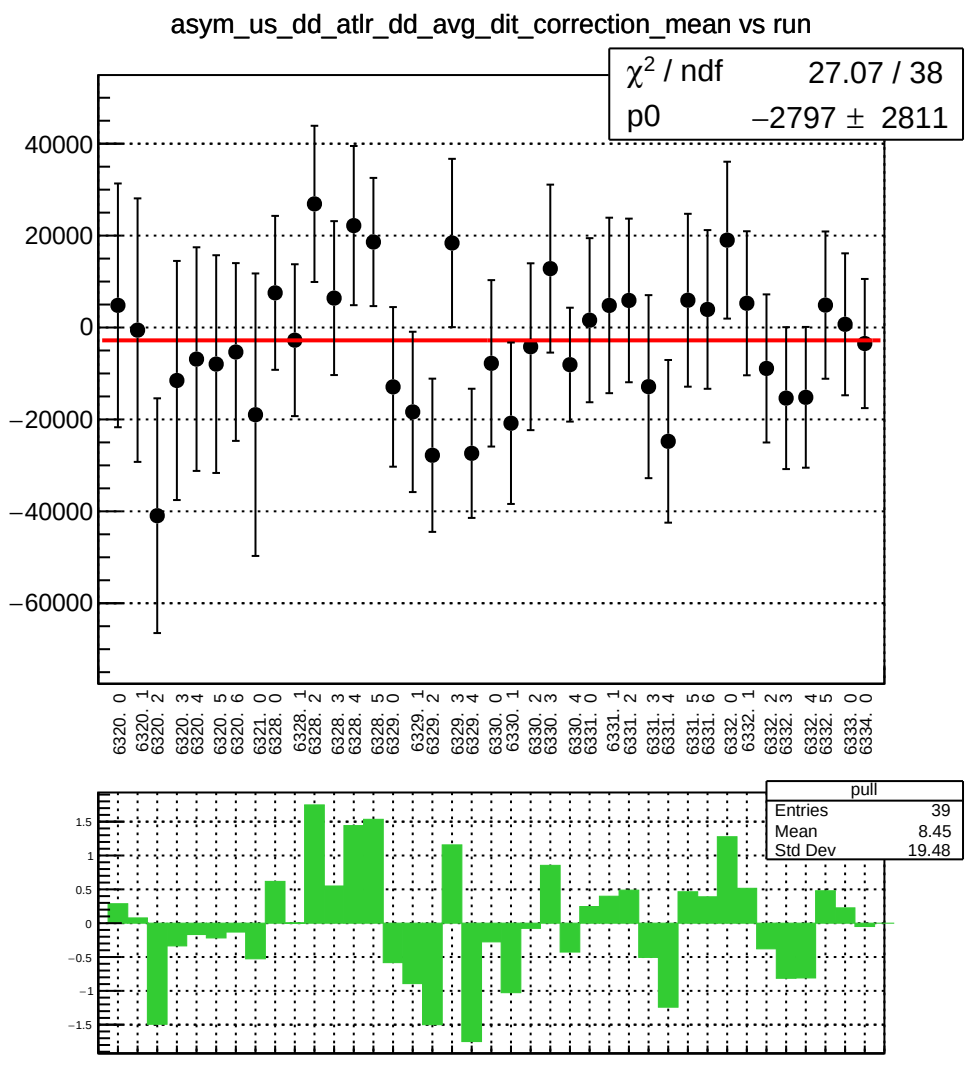
6
8

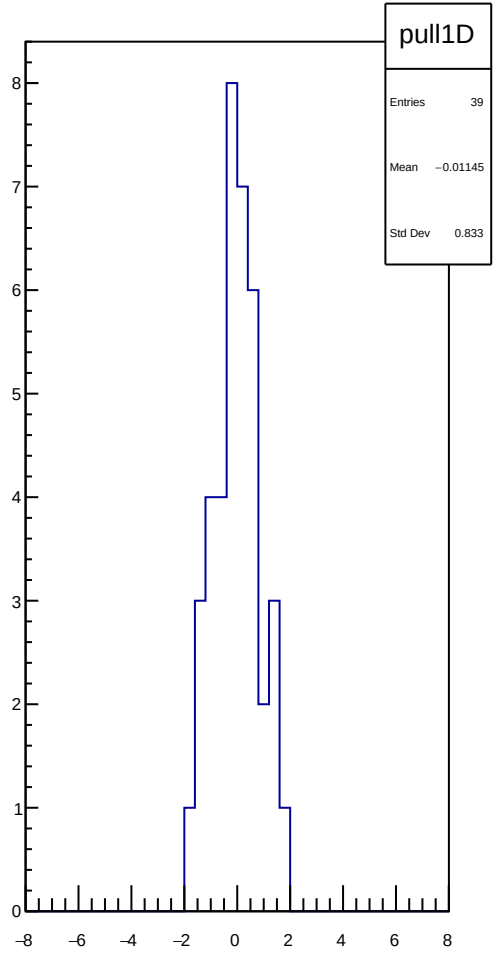

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.601e+04 / 38
p0 1710 ± 1.984
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

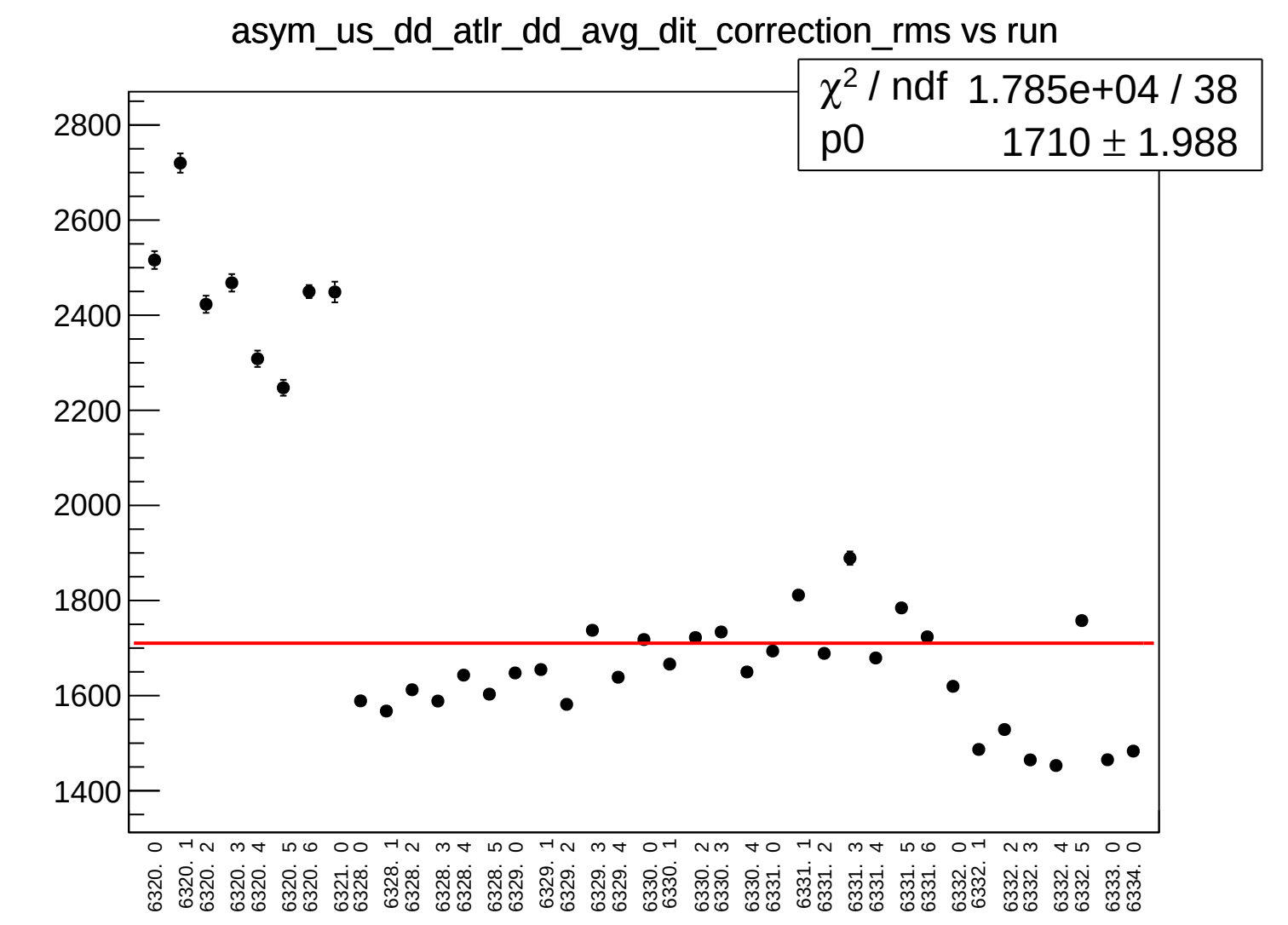

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 28.76 / 38
p0 −5542 ± 3146
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.03
Std Dev 21.99
1.5
1
0.5
0
−0.5
−1
−1.5

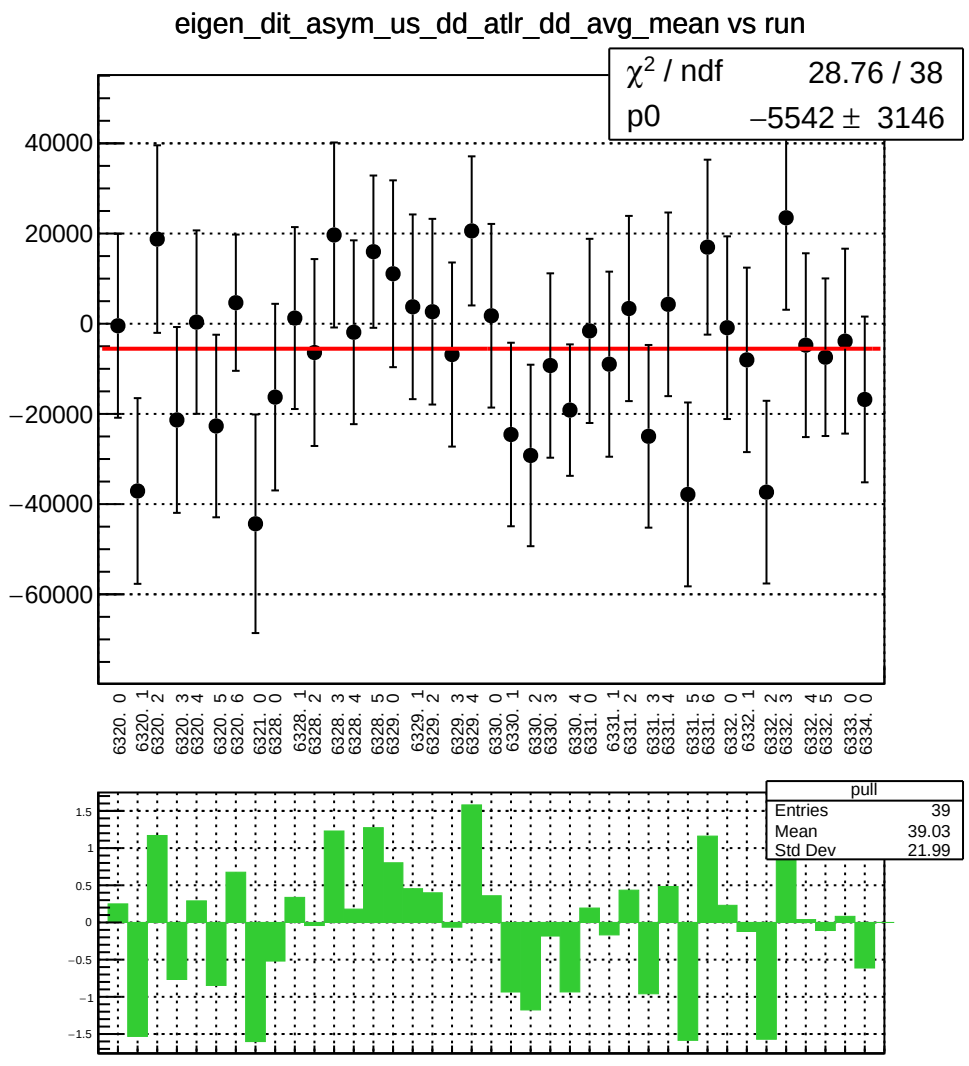

pull1D
Entries 39
Mean −0.01723
Std Dev 0.8586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 43.58 / 38
p0 1937 ± 2.224
1980
1960
1940
1920
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 27.07 / 38
p0 −2797 ± 2811
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.45
Std Dev 19.48
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01145
Std Dev 0.833
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_correction_rms vs run
χ² / ndf 1.785e+04 / 38
p0 1710 ± 1.988
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 28.76 / 38
p0 −5542 ± 3146
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
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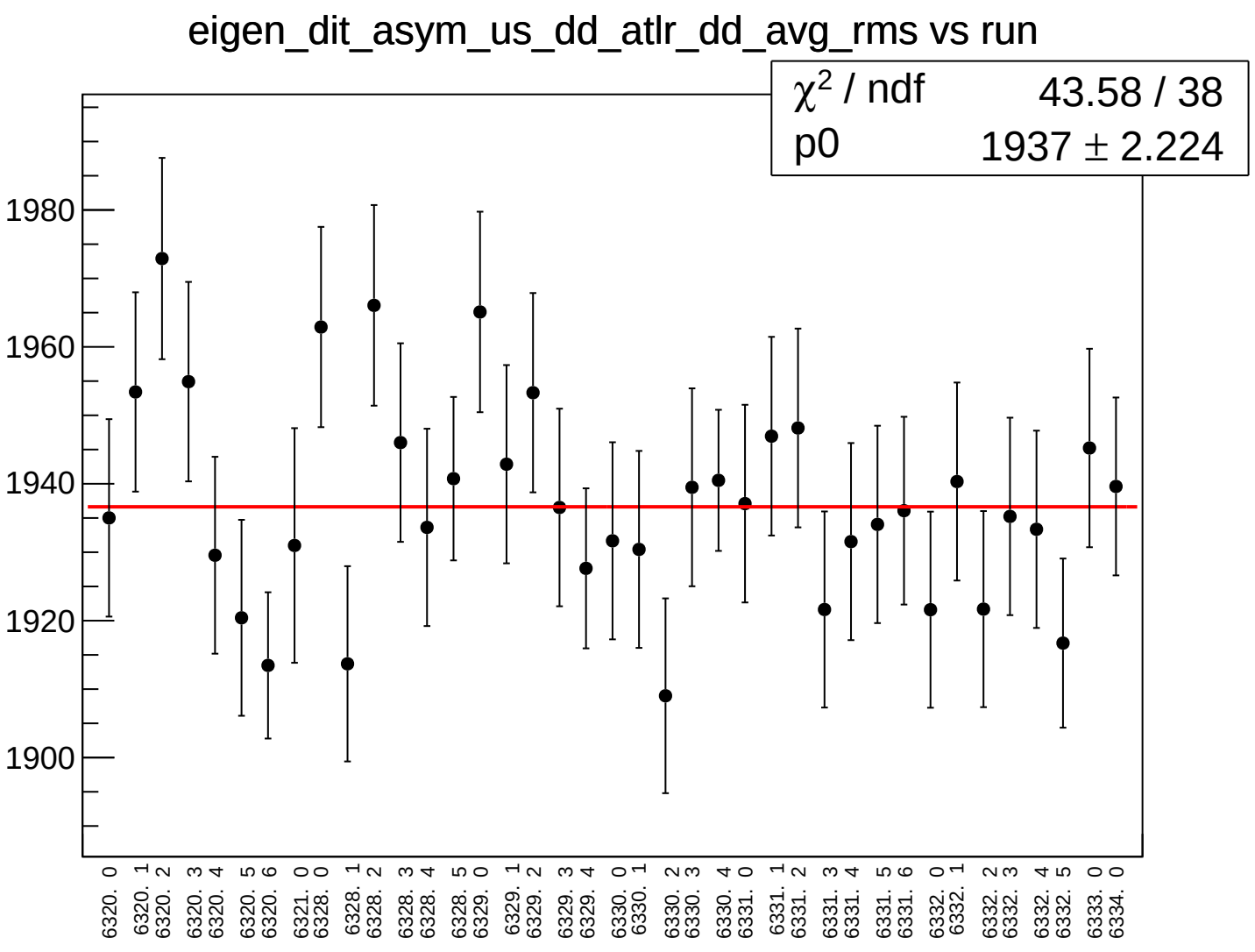
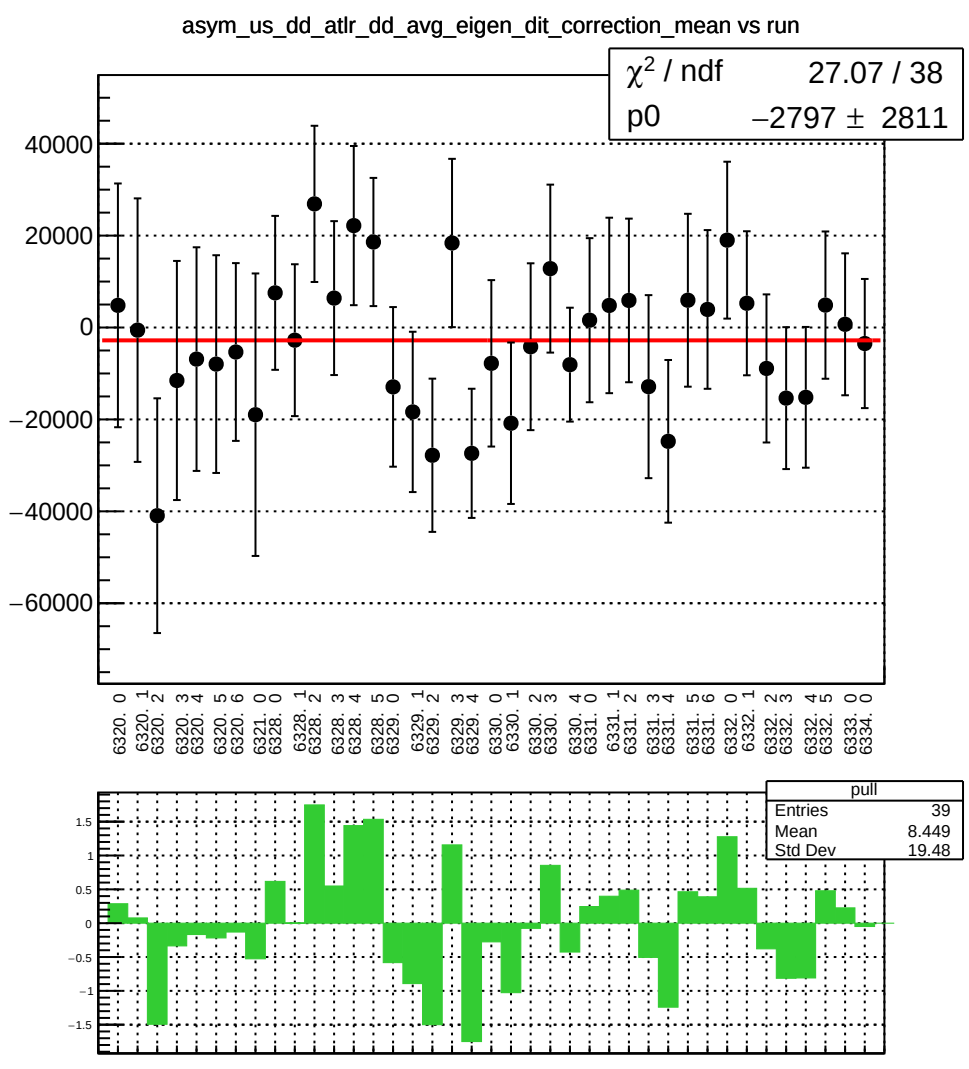
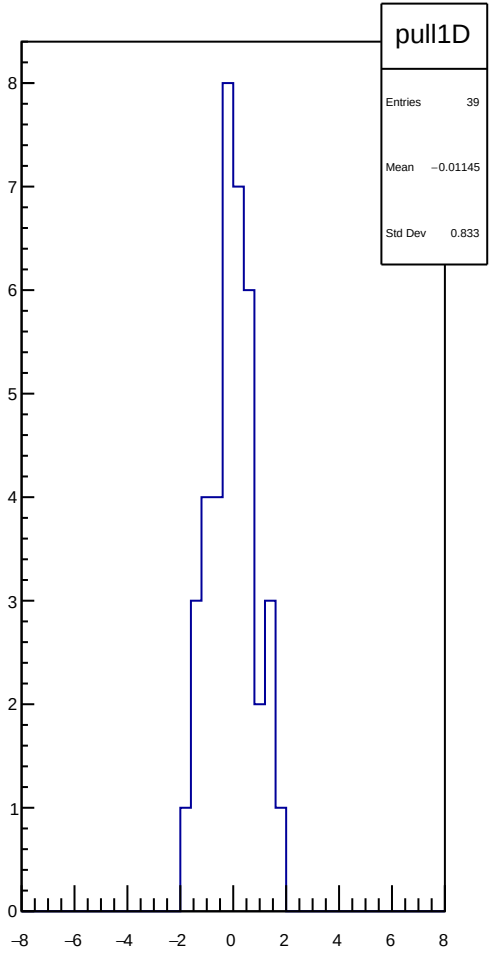
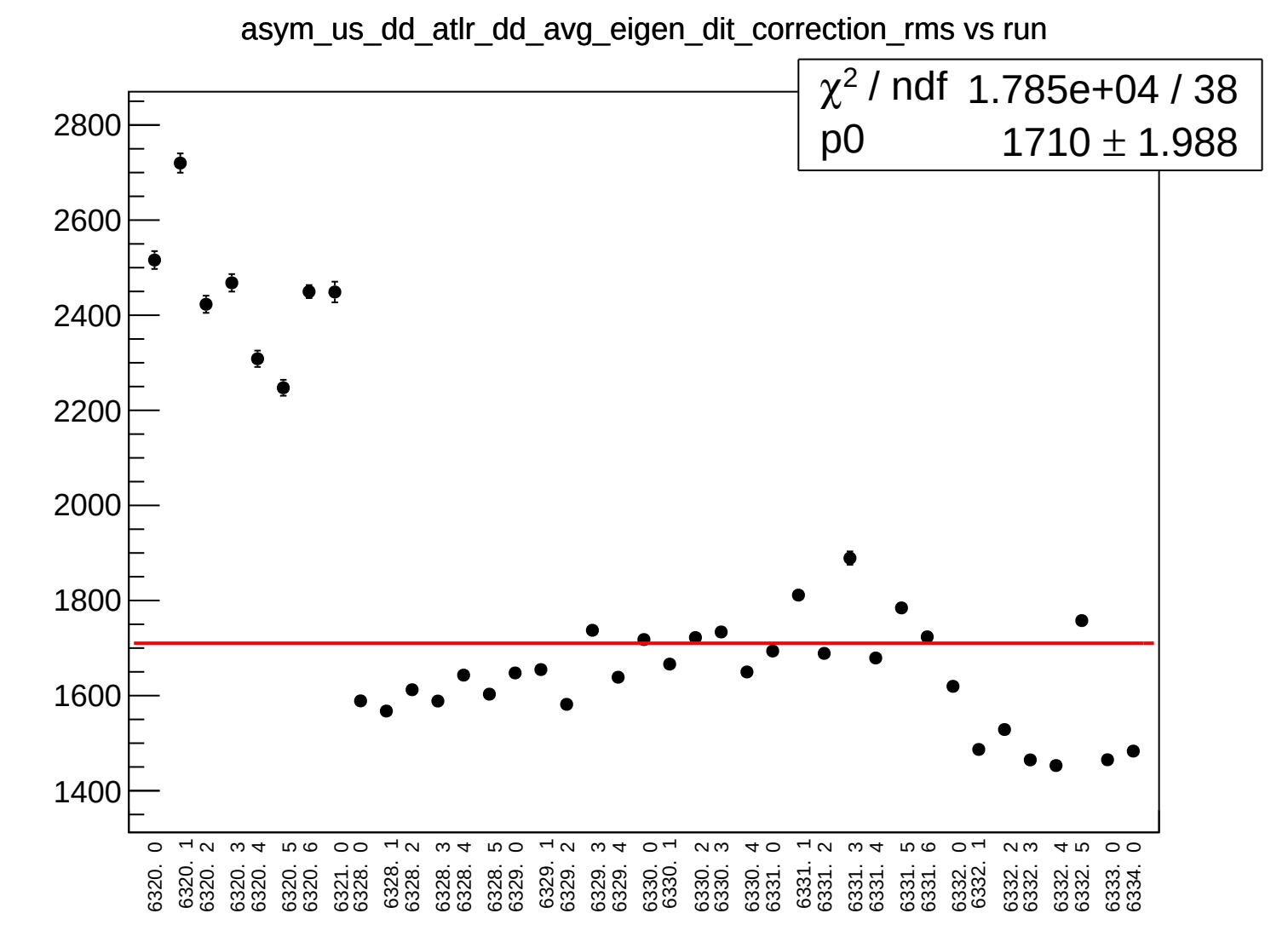
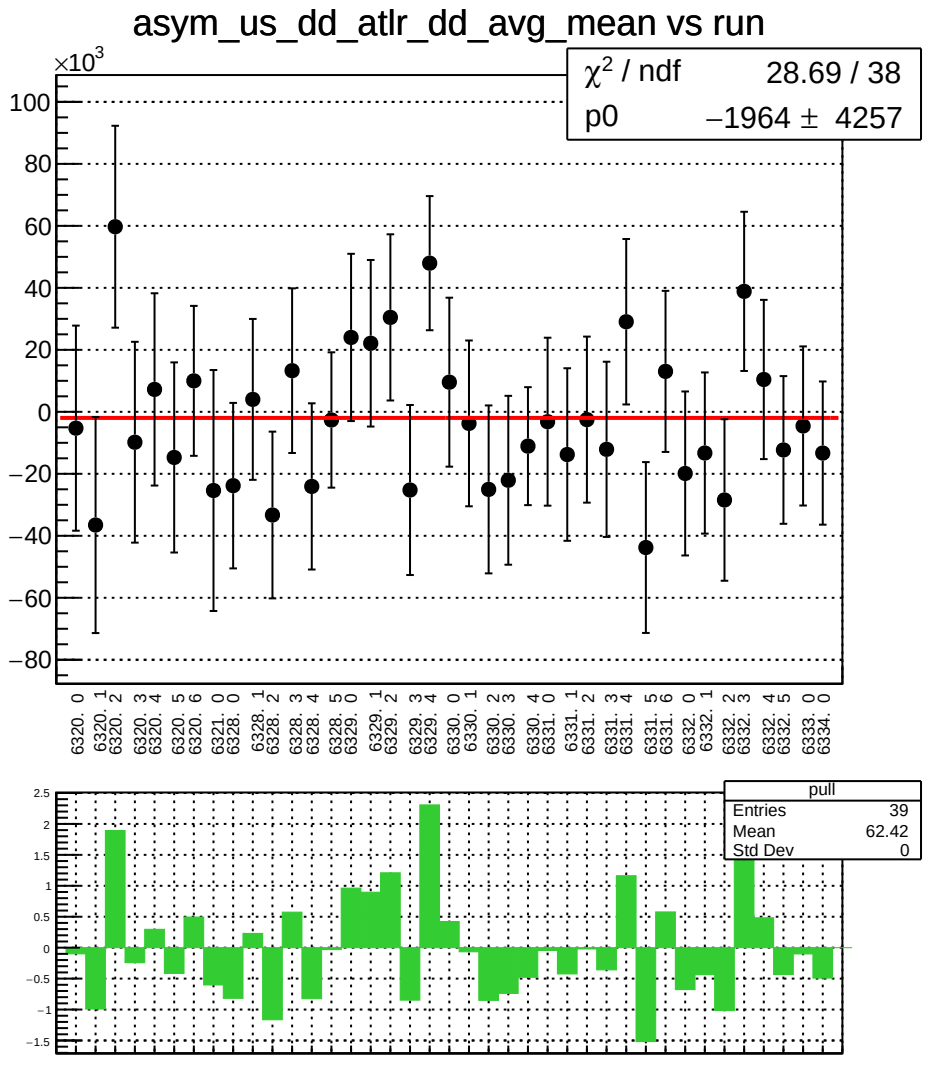
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.03
Std Dev 21.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01723
Std Dev 0.8586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 43.58 / 38
p0 1937 ± 2.224
1980
1960
1940
1920
1900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

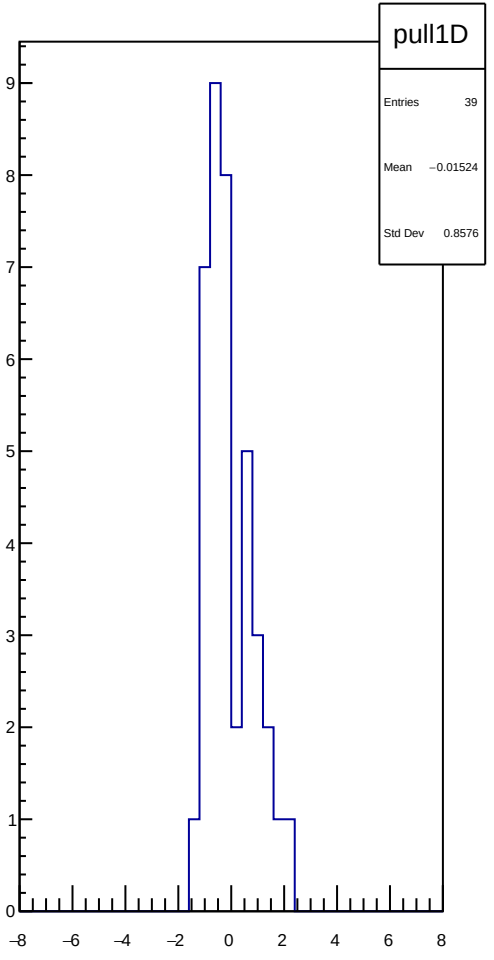

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.07 / 38
p0 −2797 ± 2811
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.449
Std Dev 19.48
1.5
1
0.5
0
−0.5
−1
−1.5

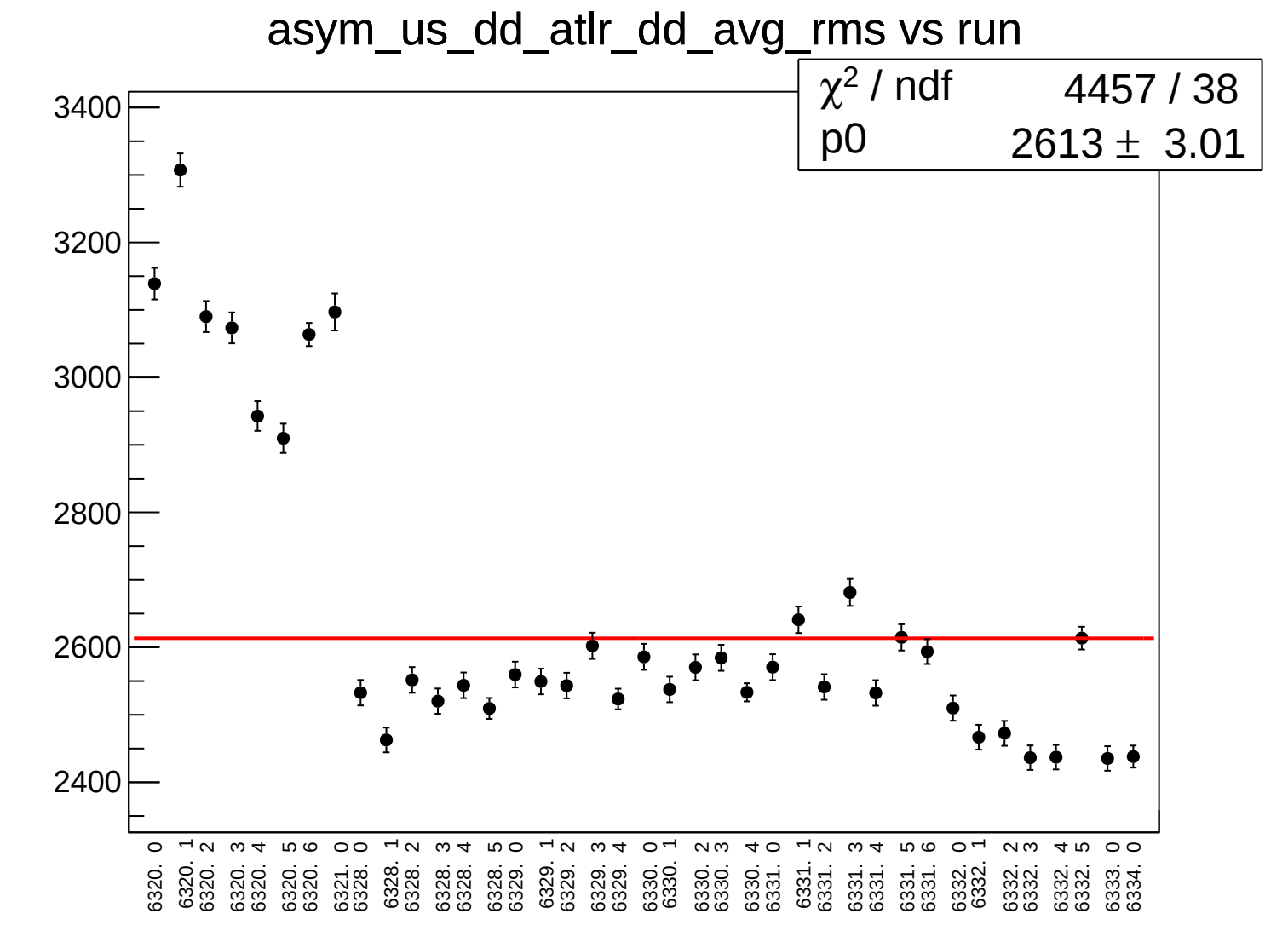

pull1D
Entries 39
Mean −0.01145
Std Dev 0.833
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

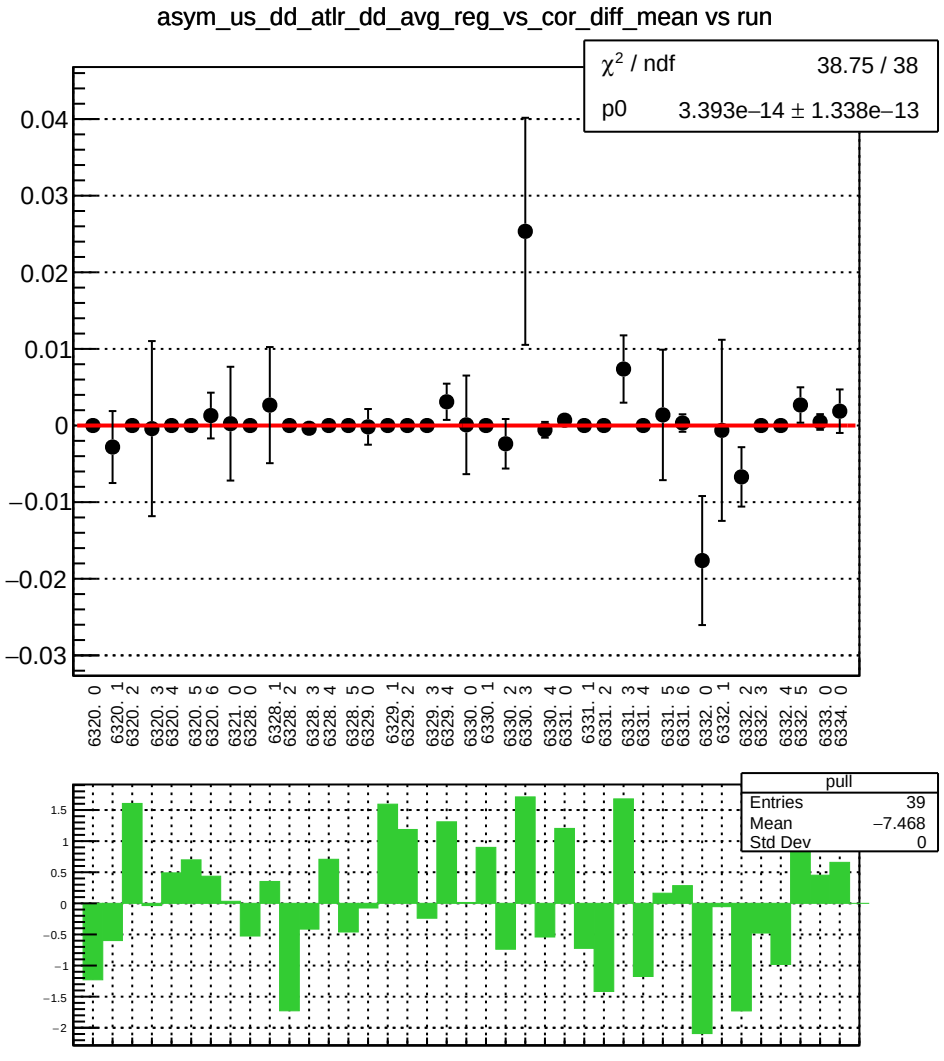

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.785e+04 / 38
p0 1710 ± 1.988
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

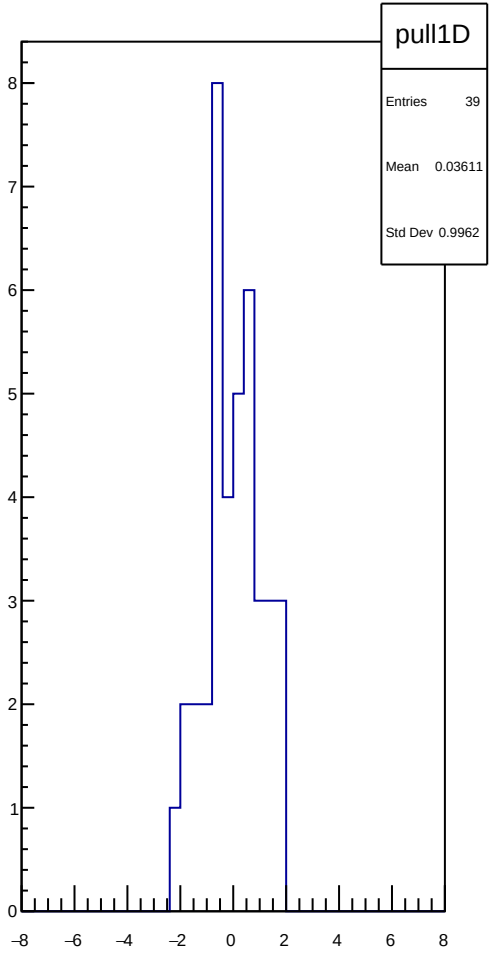

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 28.69 / 38
p0 −1964 ± 4257
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

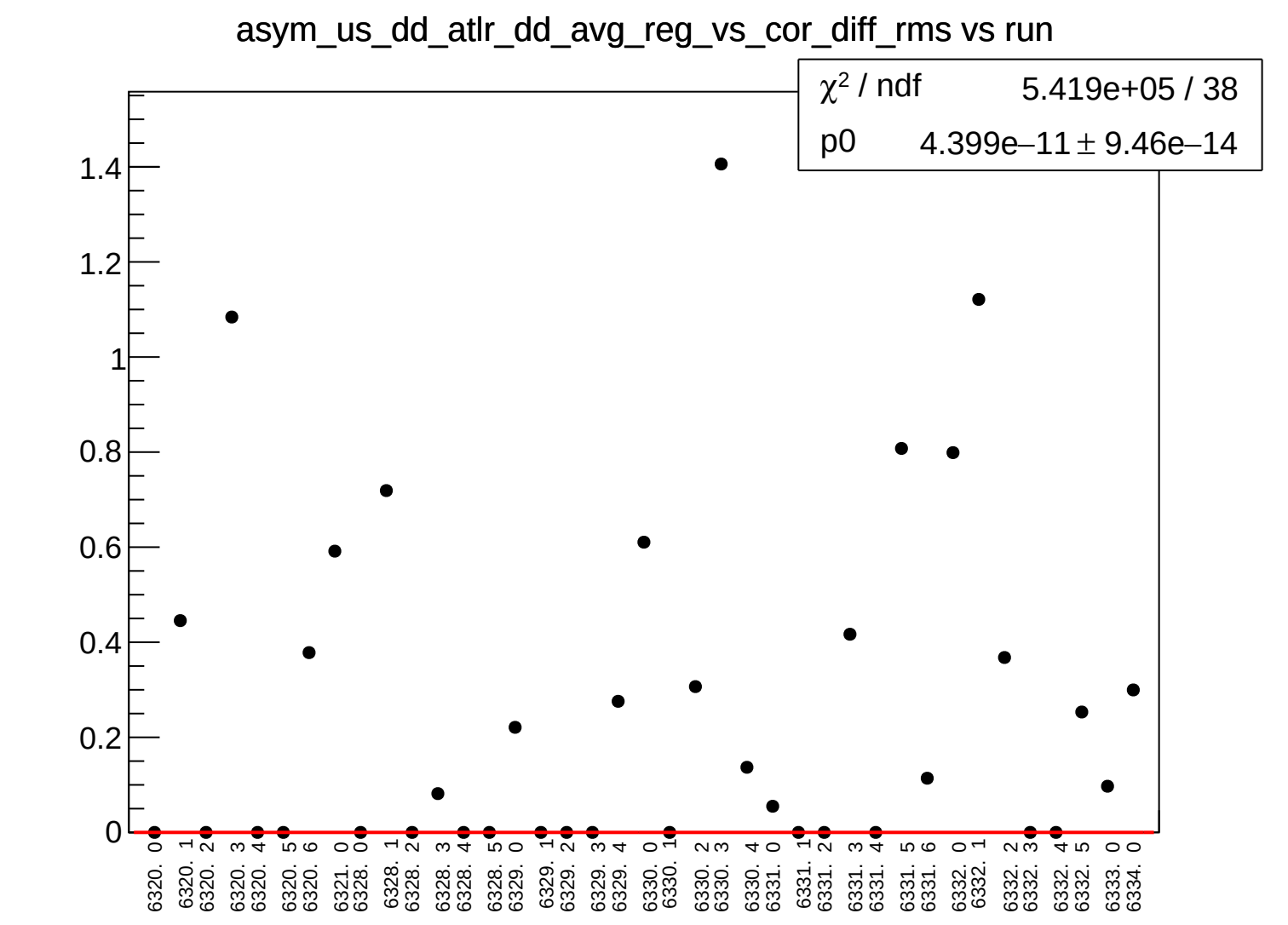
pull
Entries 39
Mean 62.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

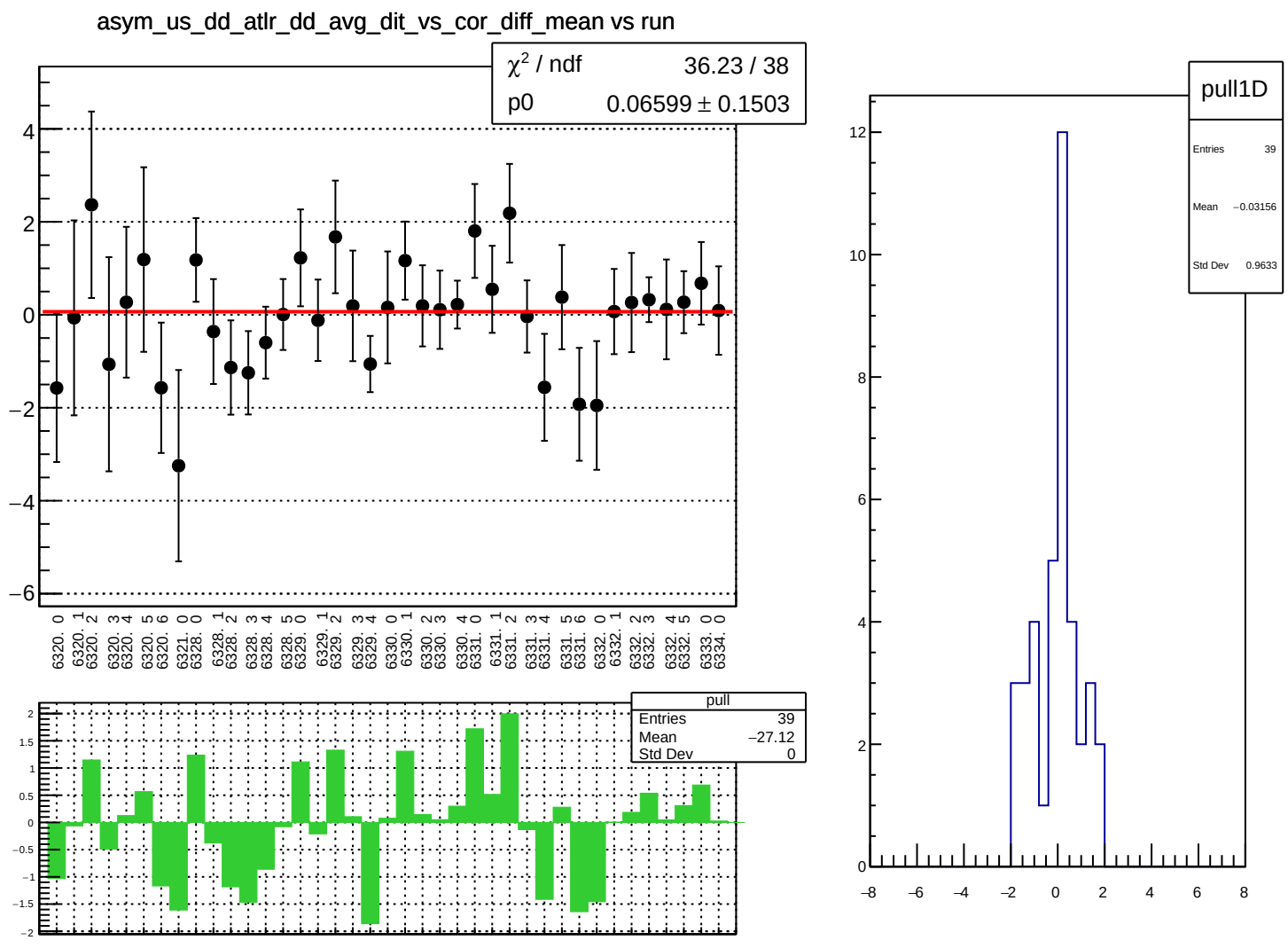

pull1D
Entries 39
Mean −0.01524
Std Dev 0.8576
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

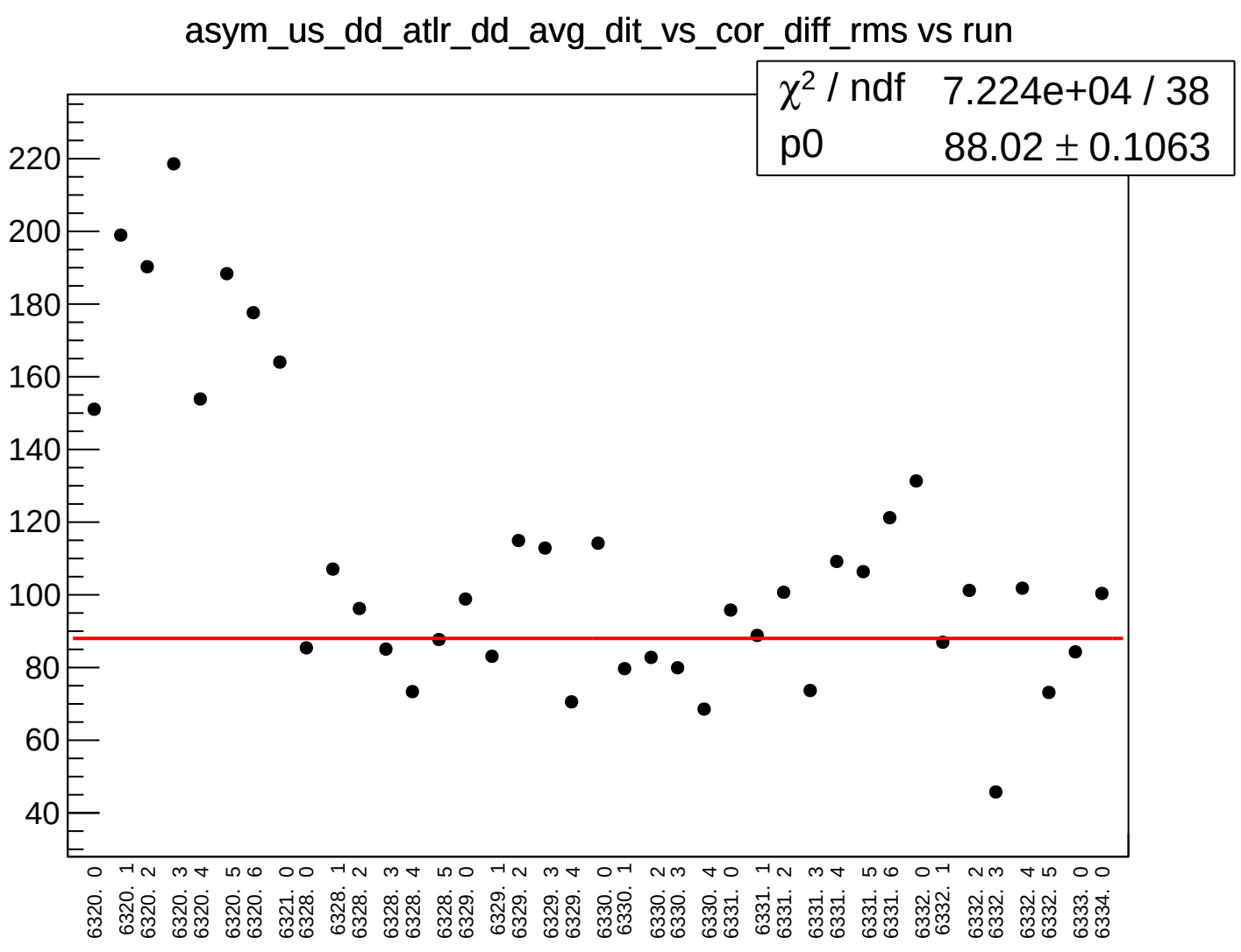

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 4457 / 38
p0 2613 ± 3.01
3400
3200
3000
2800
2600
2400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

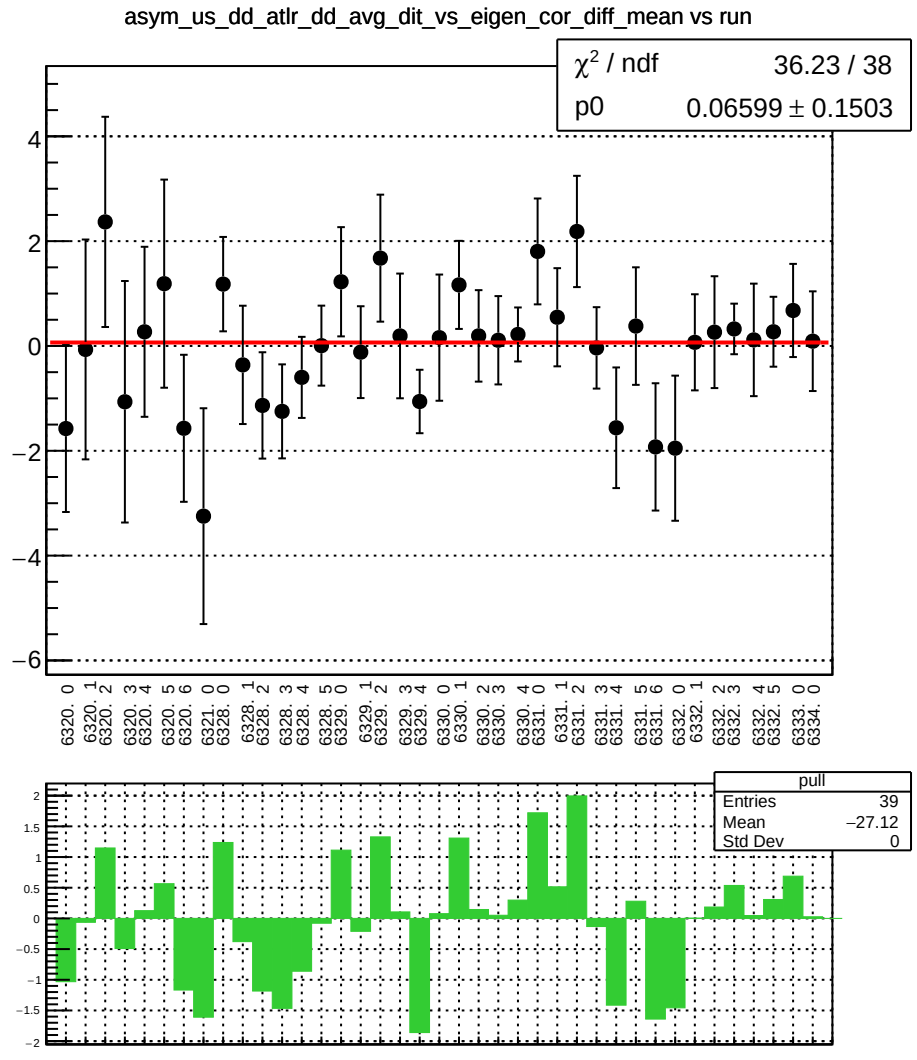

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 38.75 / 38
p0 3.393e−14 ± 1.338e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.468
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

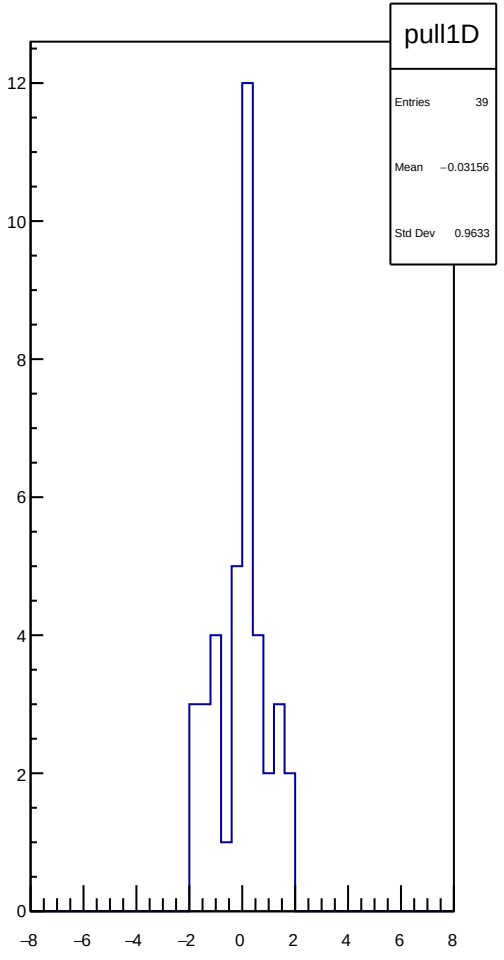

pull1D
Entries 39
Mean 0.03611
Std Dev 0.9962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

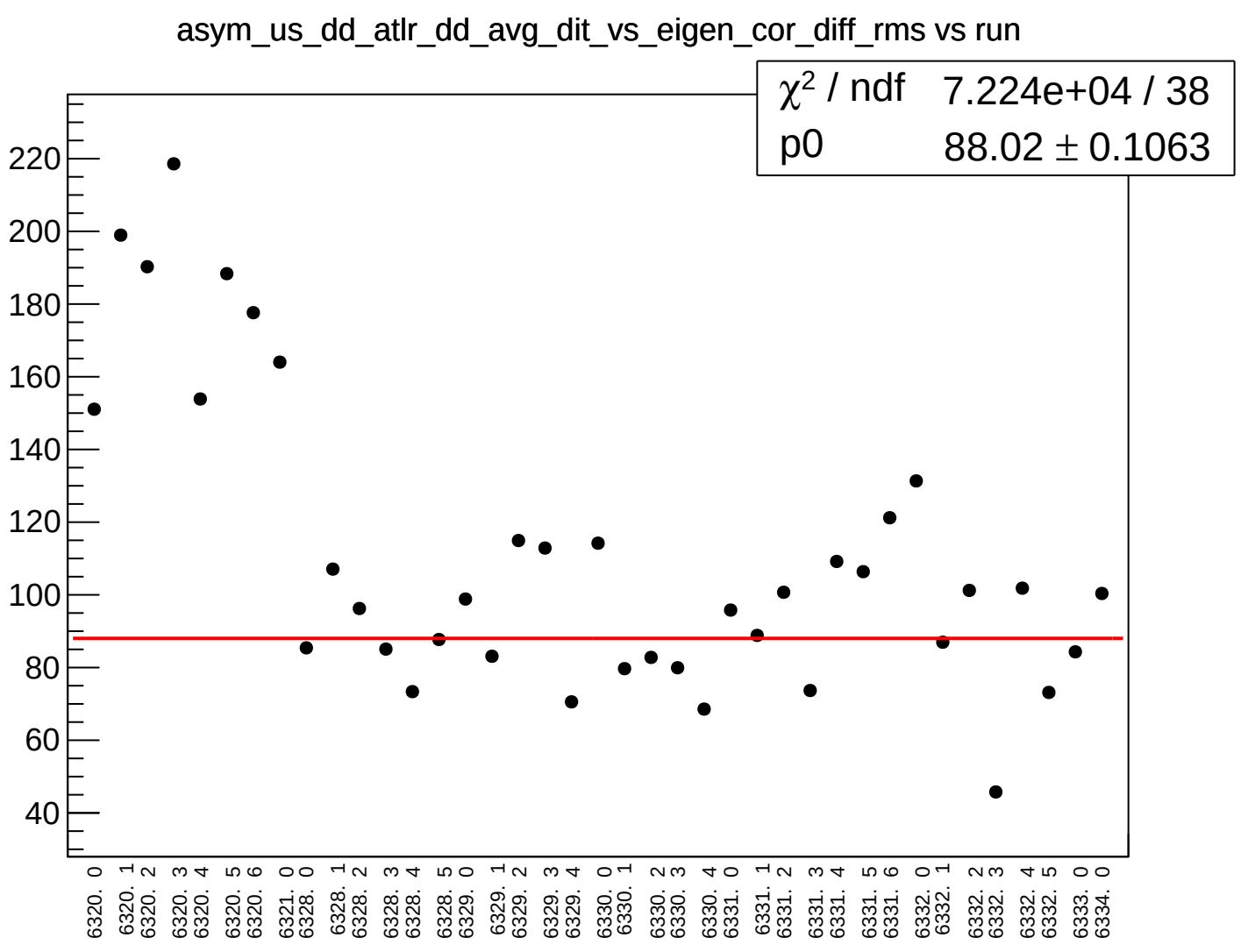

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.419e+05 / 38
p0 4.399e−11 ± 9.46e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

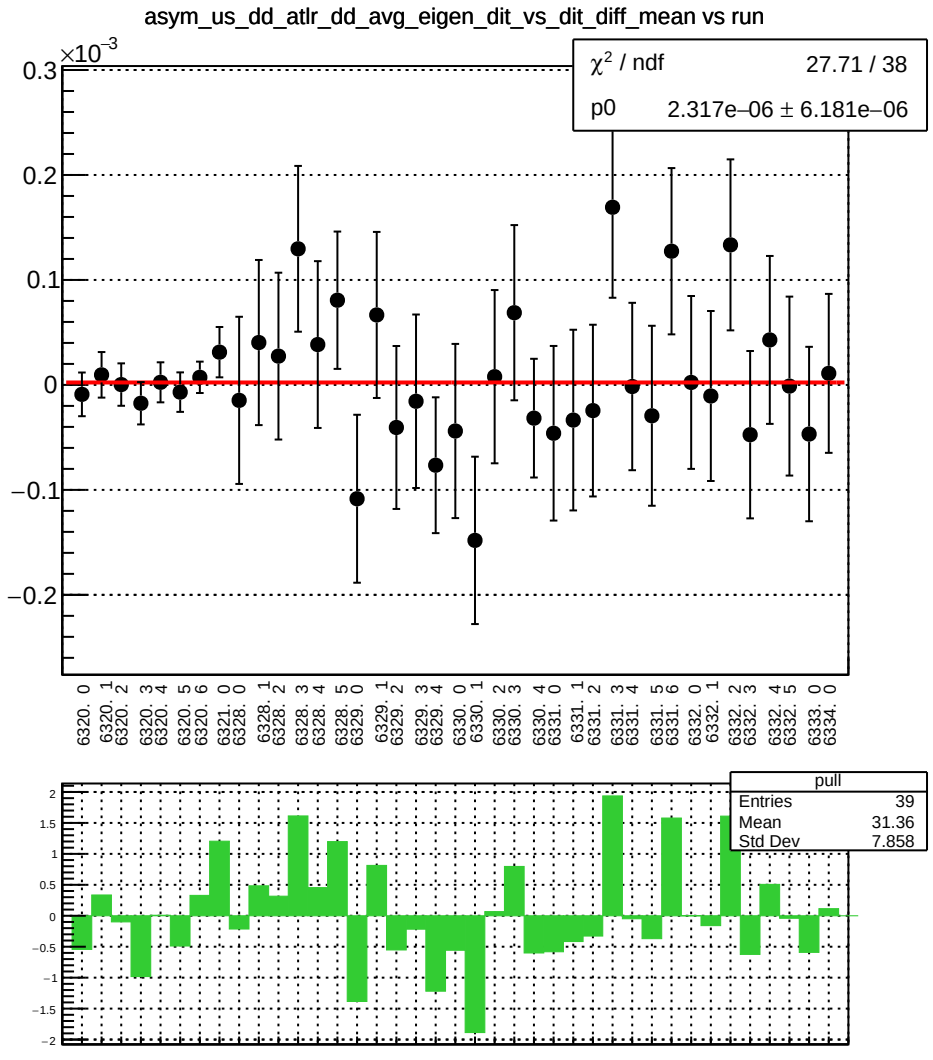

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.06599 ± 0.1503
pull
Entries 39
Mean −27.12
Std Dev 0
pull1D
Entries 39
Mean −0.03156
Std Dev 0.9633

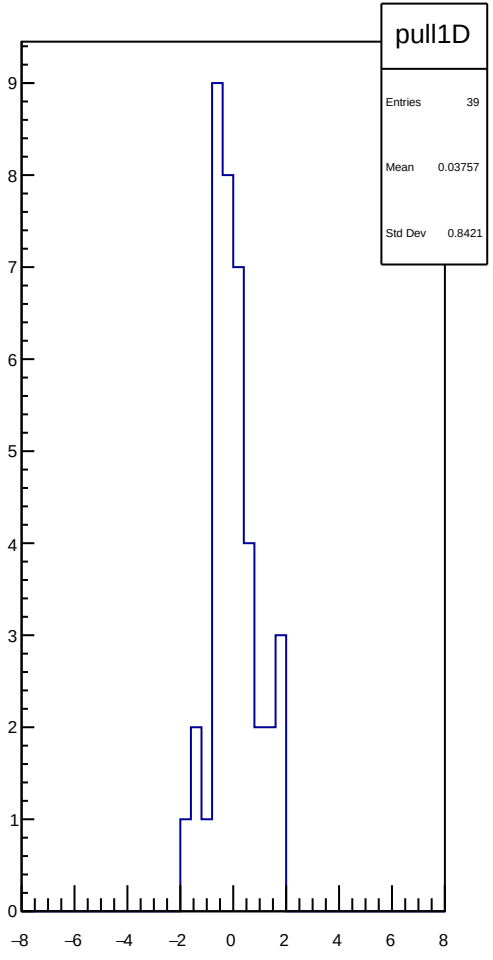

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 38
p0 88.02 ± 0.1063
220
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

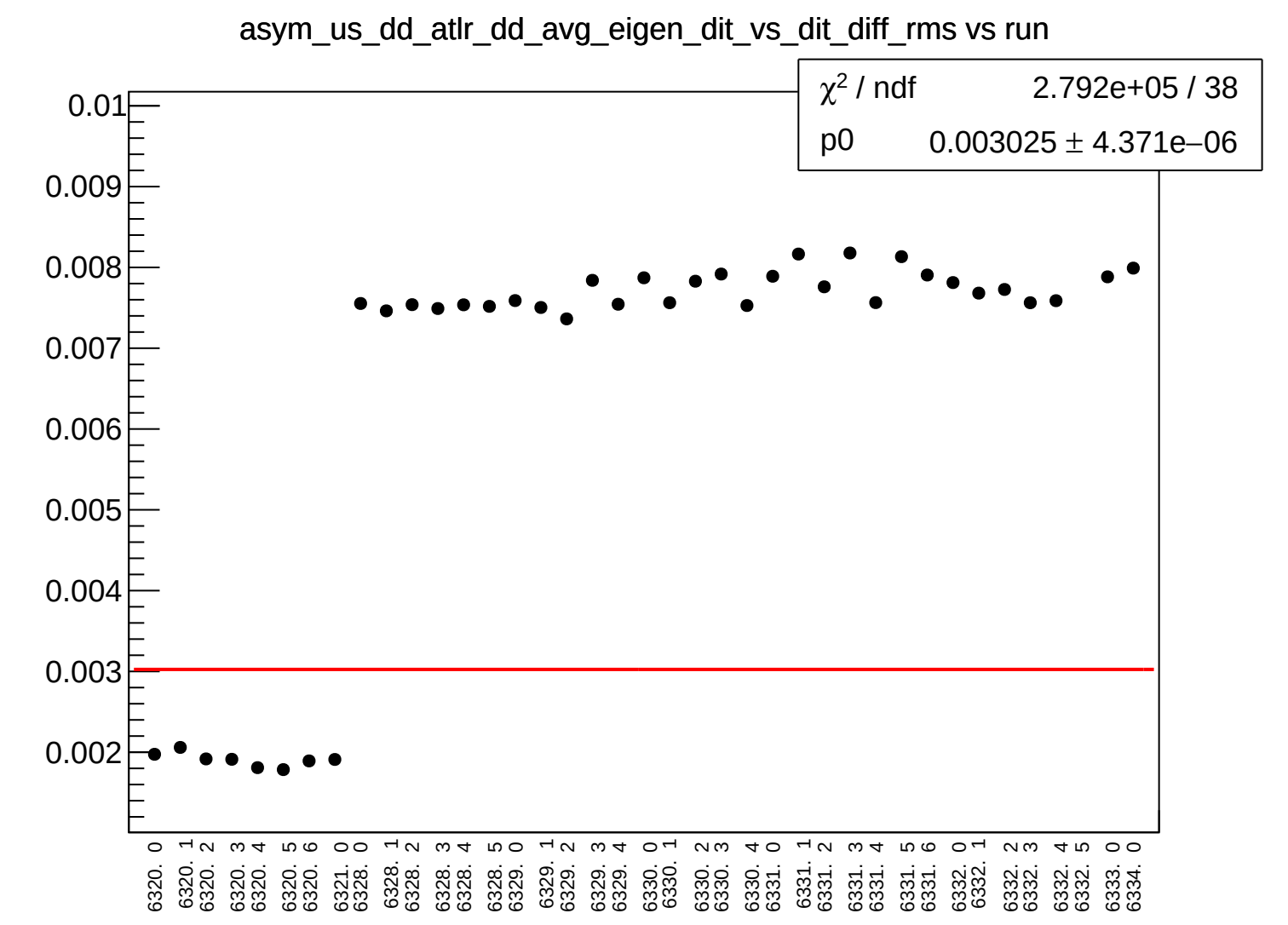

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.06599 ± 0.1503
pull
Entries 39
Mean −27.12
Std Dev 0

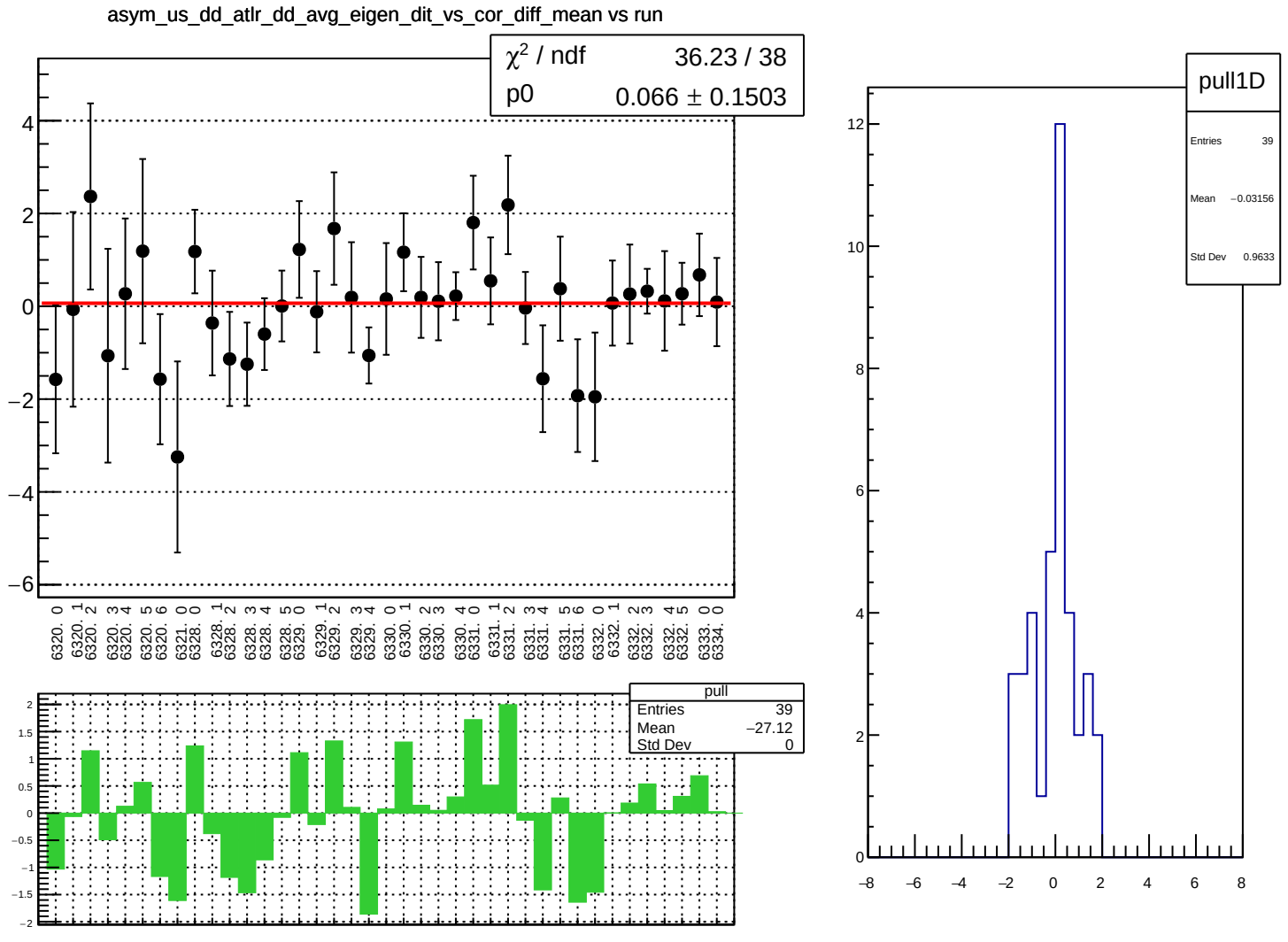

pull1D
Entries 39
Mean −0.03156
Std Dev 0.9633

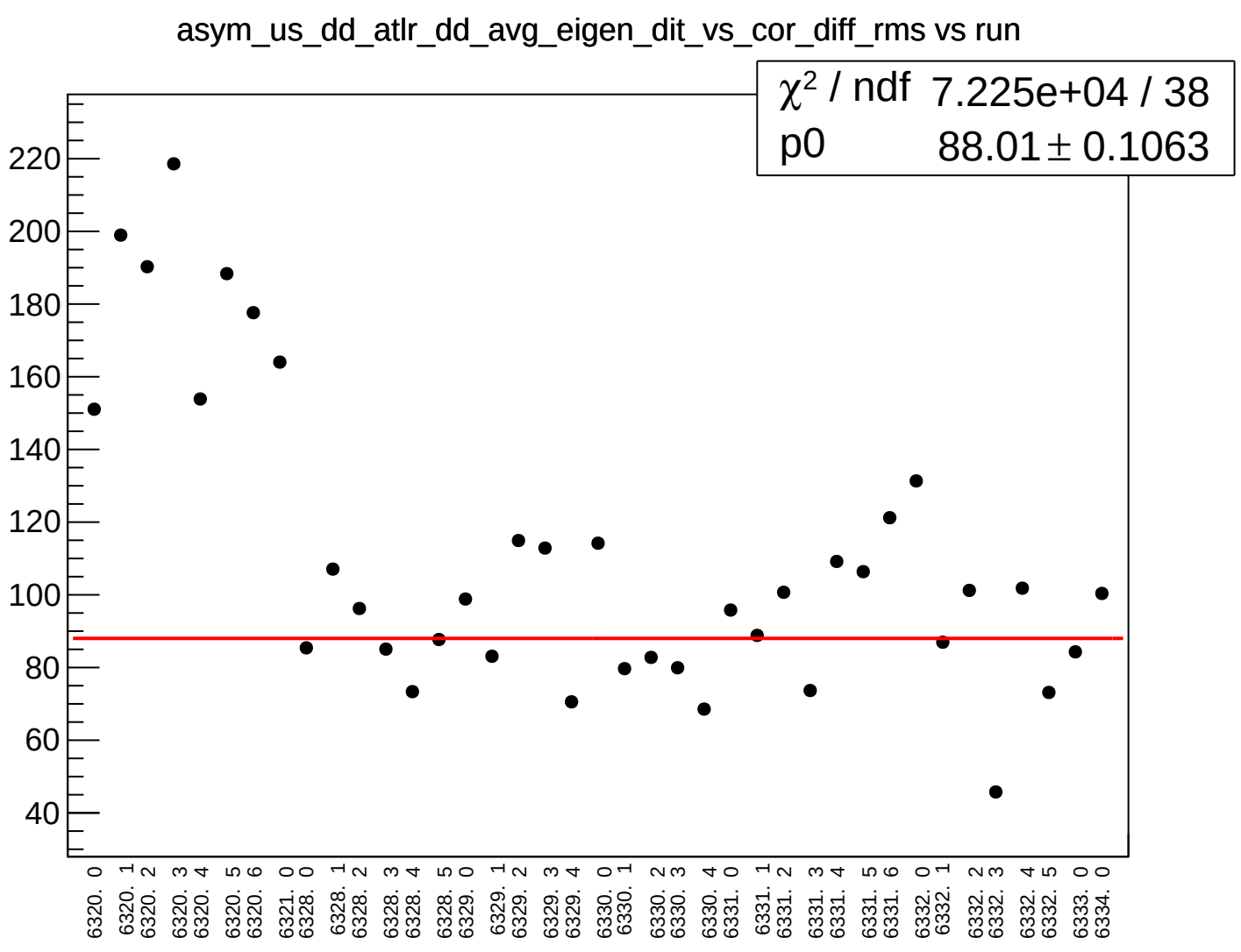

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 38
p0 88.02 ± 0.1063
220
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

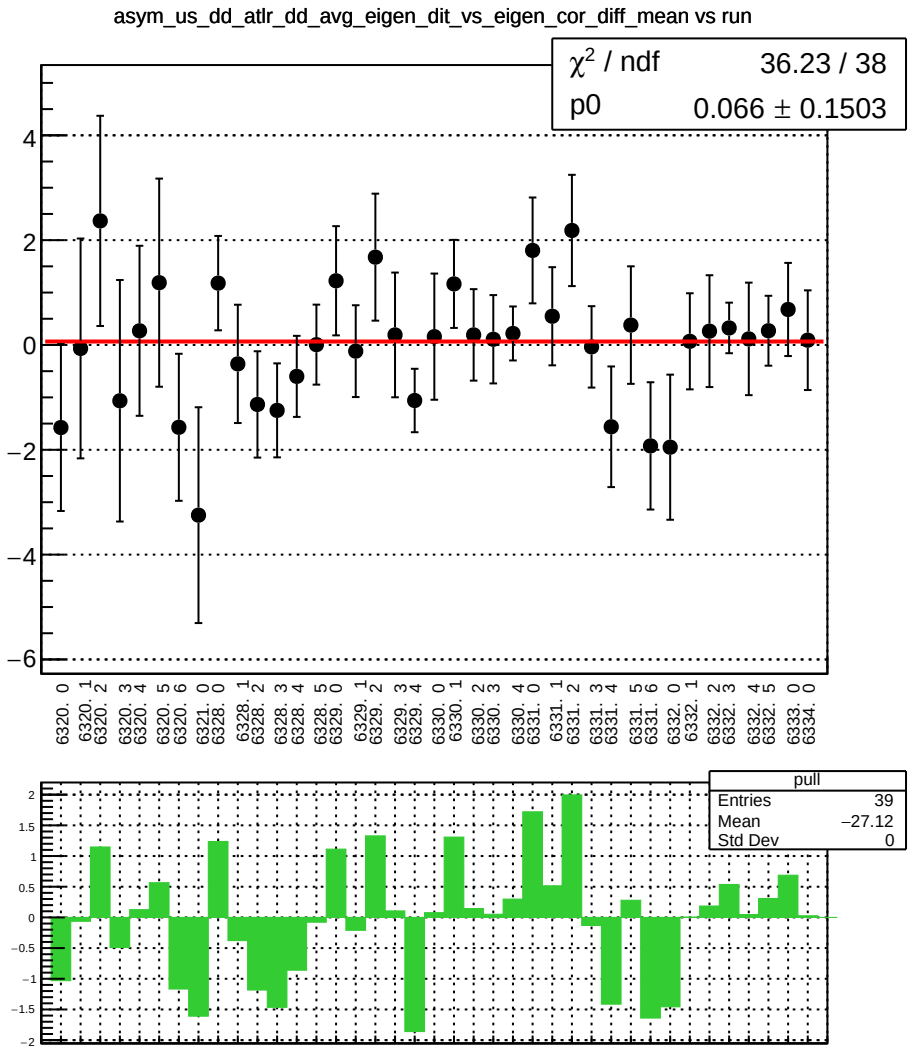

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.71 / 38
p0 2.317e−06 ± 6.181e−06
0.3
0.2
0.1
0
−0.1
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.36
Std Dev 7.858
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

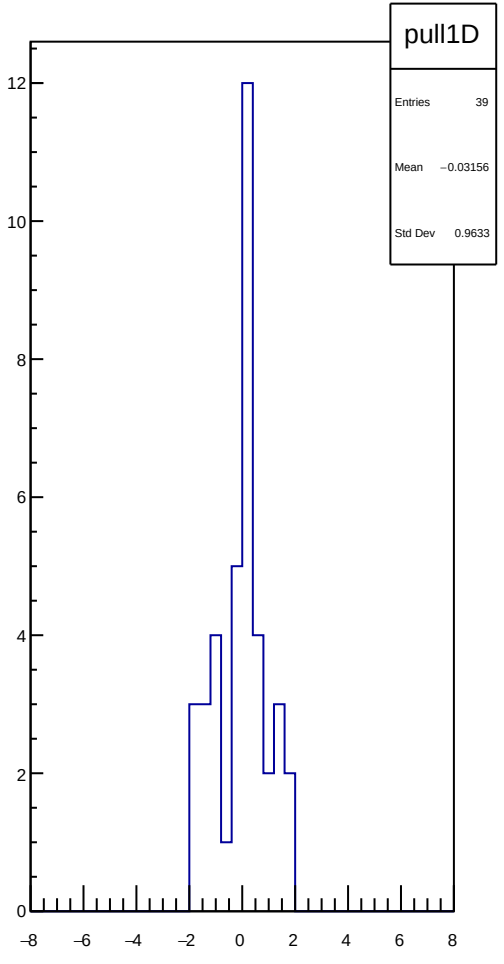

pull1D
Entries 39
Mean 0.03757
Std Dev 0.8421
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

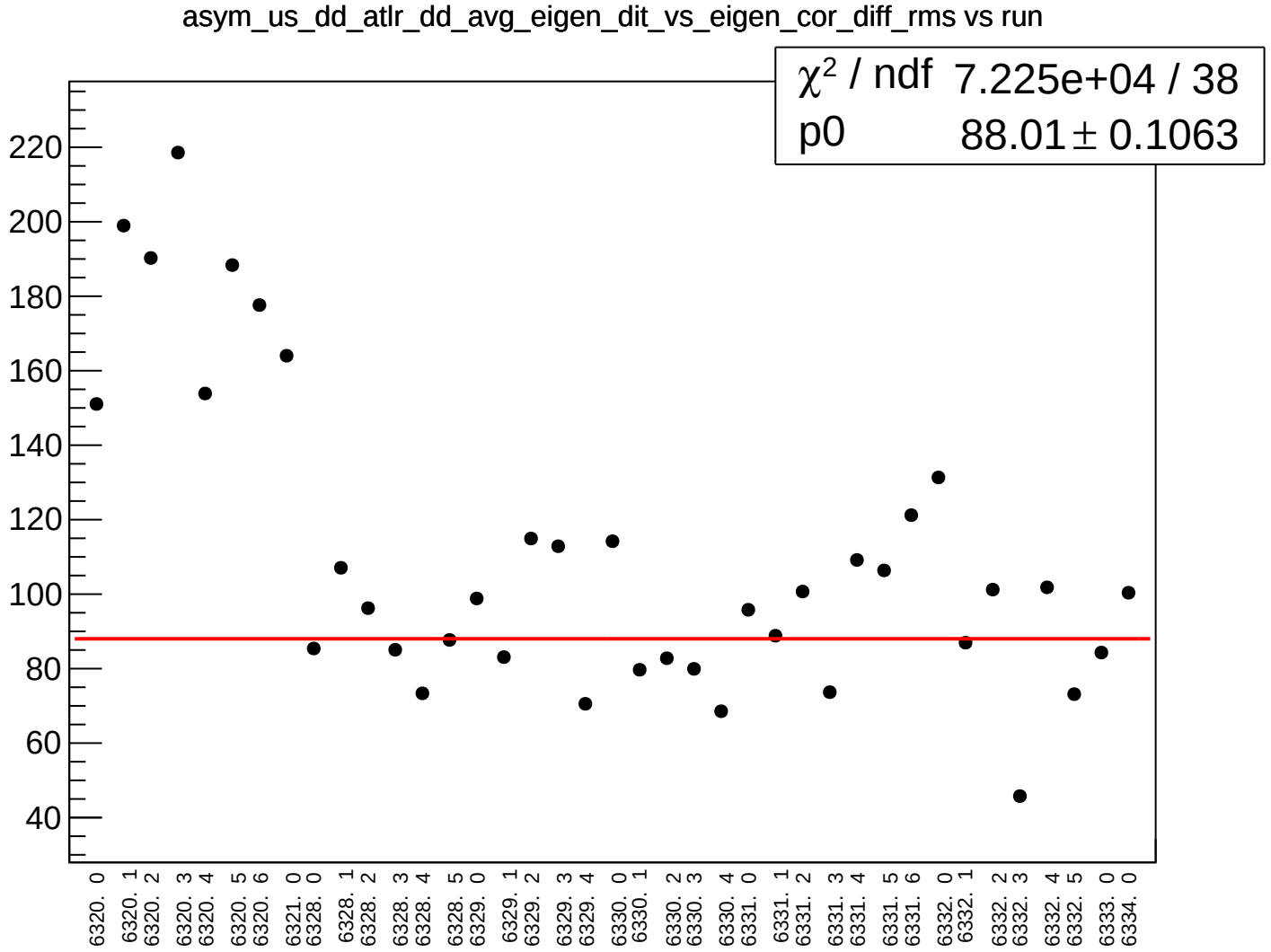

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.792e+05 / 38
p0 0.003025 ± 4.371e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

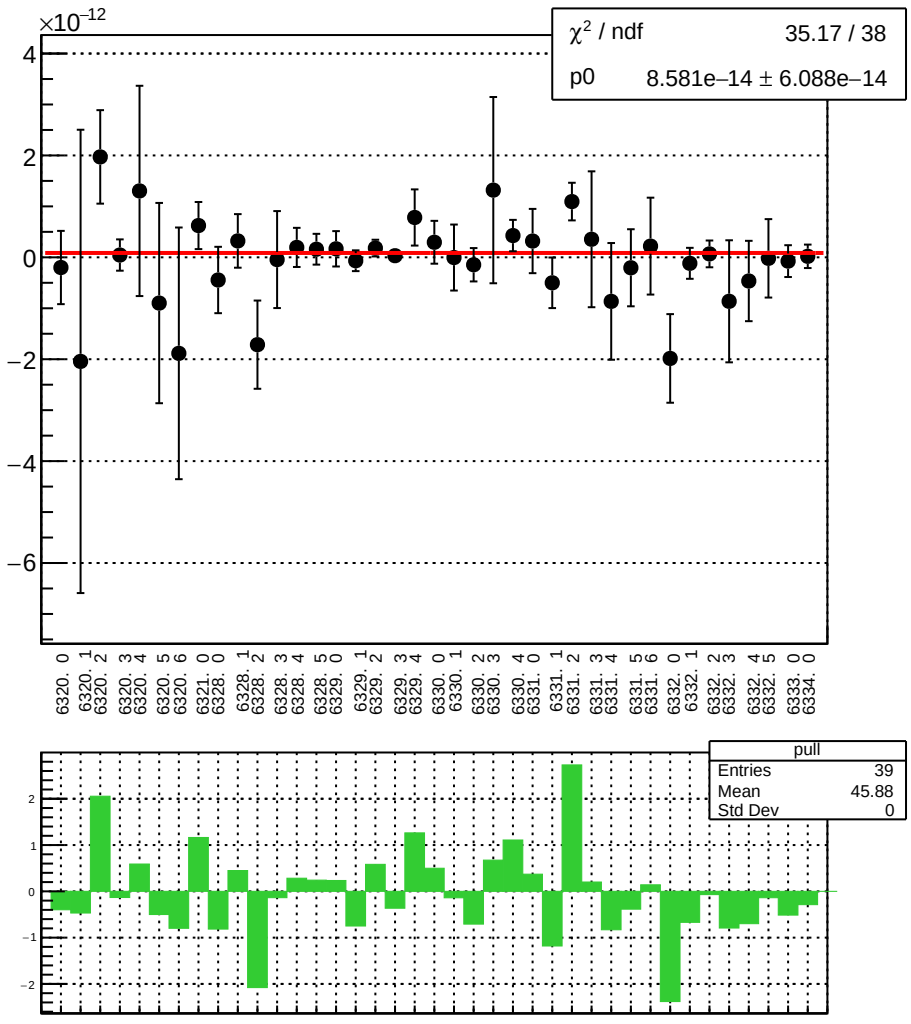

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.066 ± 0.1503
pull
Entries 39
Mean −27.12
Std Dev 0
pull1D
Entries 39
Mean −0.03156
Std Dev 0.9633

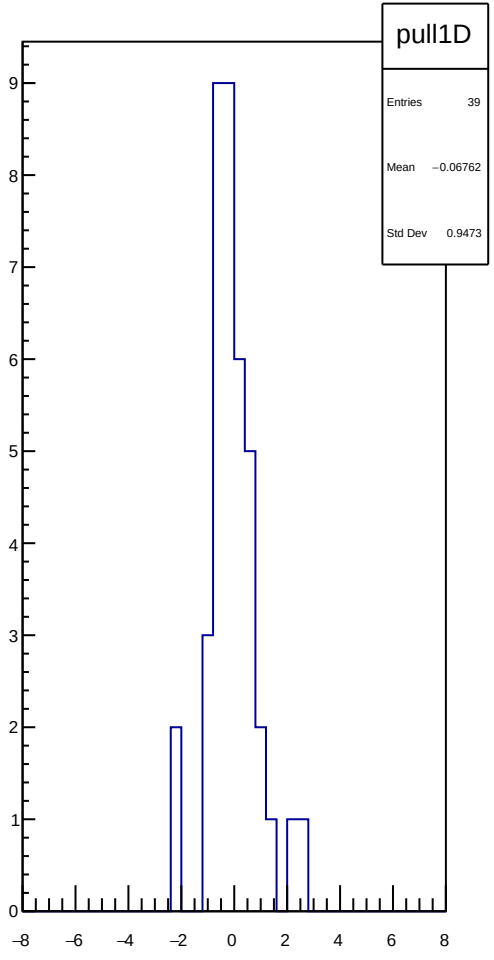

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.225e+04 / 38
p0 88.01 ± 0.1063
220
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

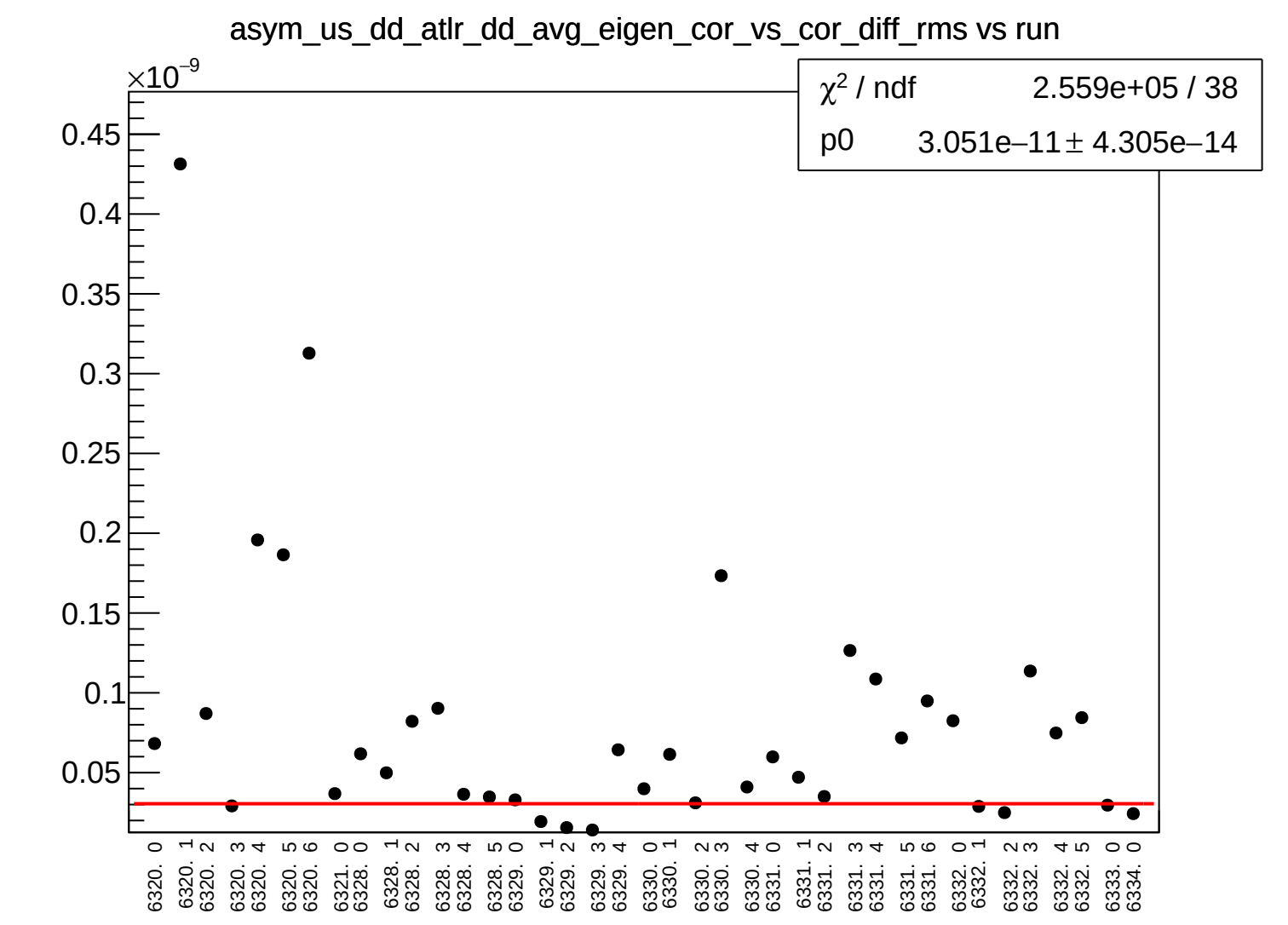

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.23 / 38
p0 0.066 ± 0.1503
pull
Entries 39
Mean −27.12
Std Dev 0

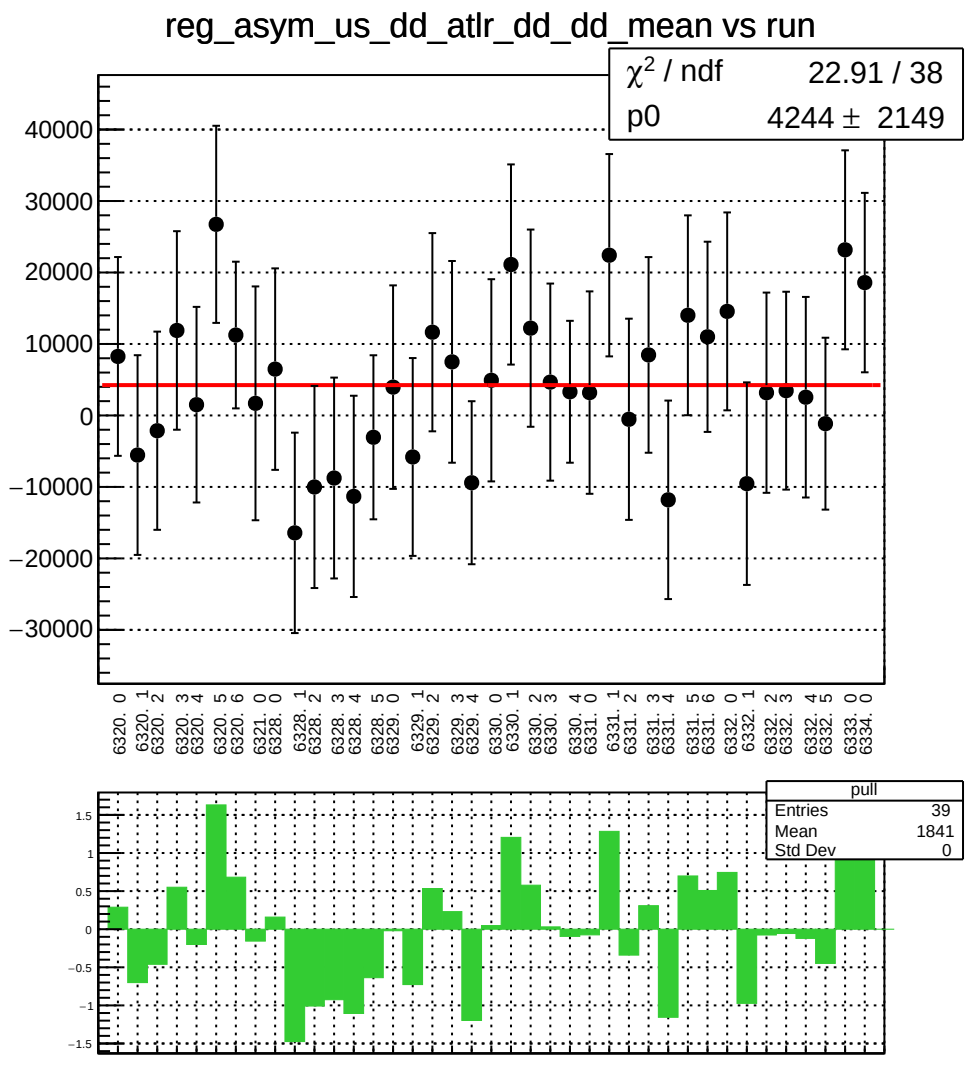

pull1D
Entries 39
Mean −0.03156
Std Dev 0.9633

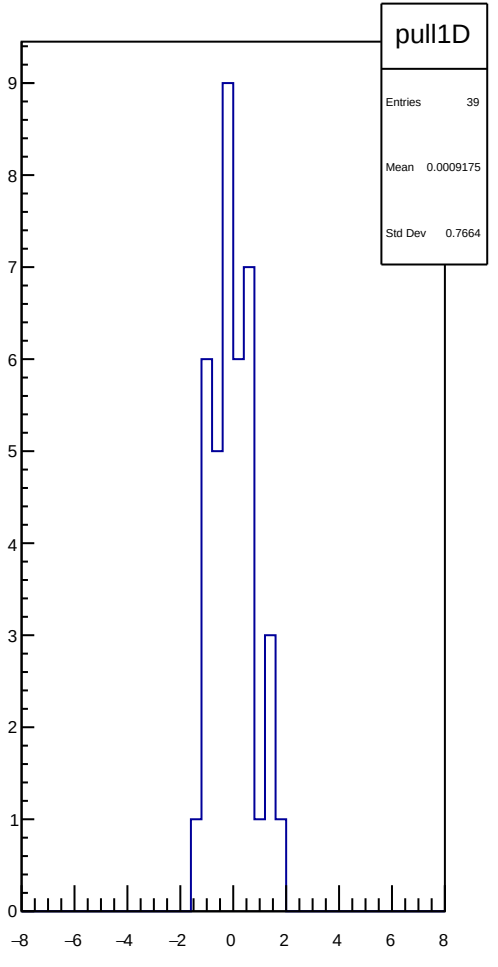

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.225e+04 / 38
p0 88.01 ± 0.1063
220
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

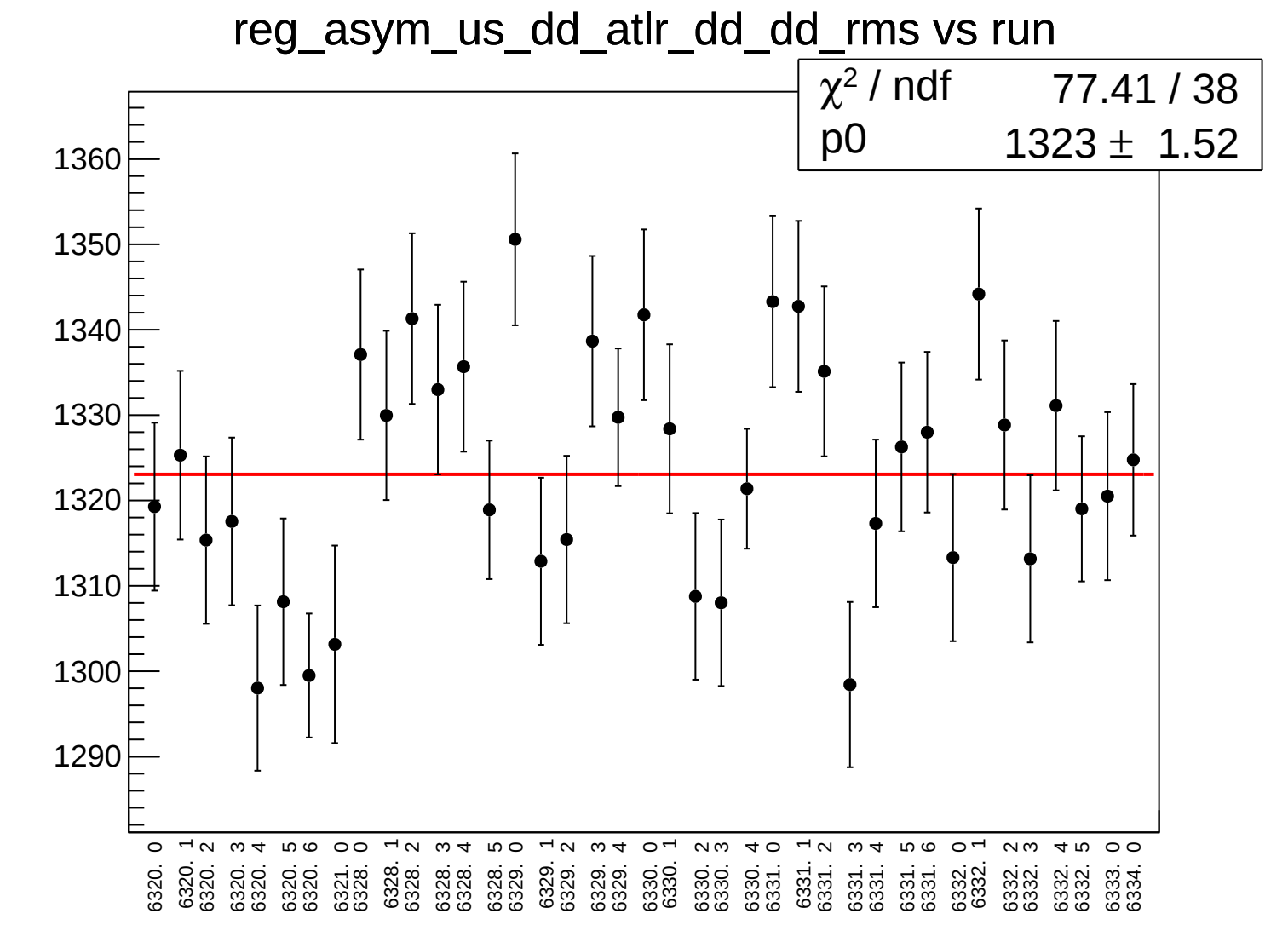

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.17 / 38
p0 8.581e−14 ± 6.088e−14
pull
Entries 39
Mean 45.88
Std Dev 0

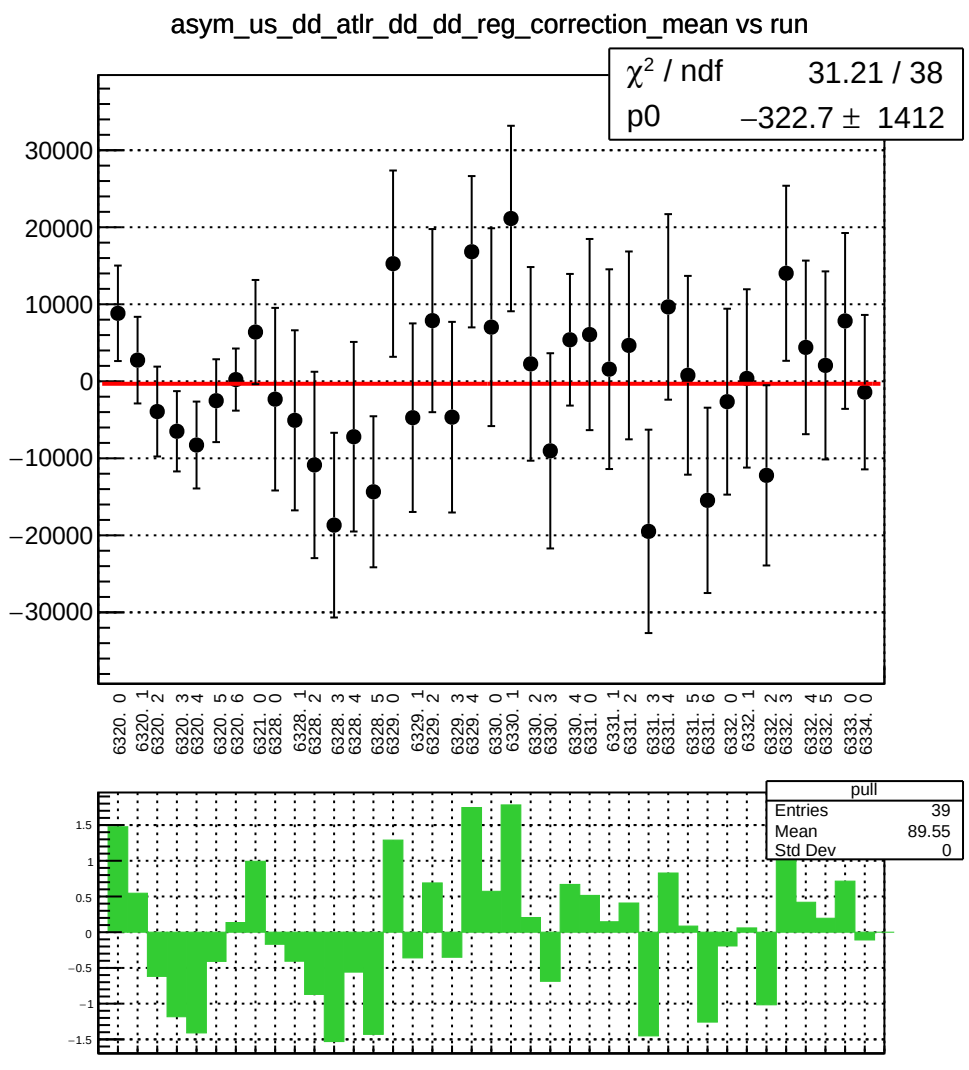

pull1D
Entries 39
Mean −0.06762
Std Dev 0.9473

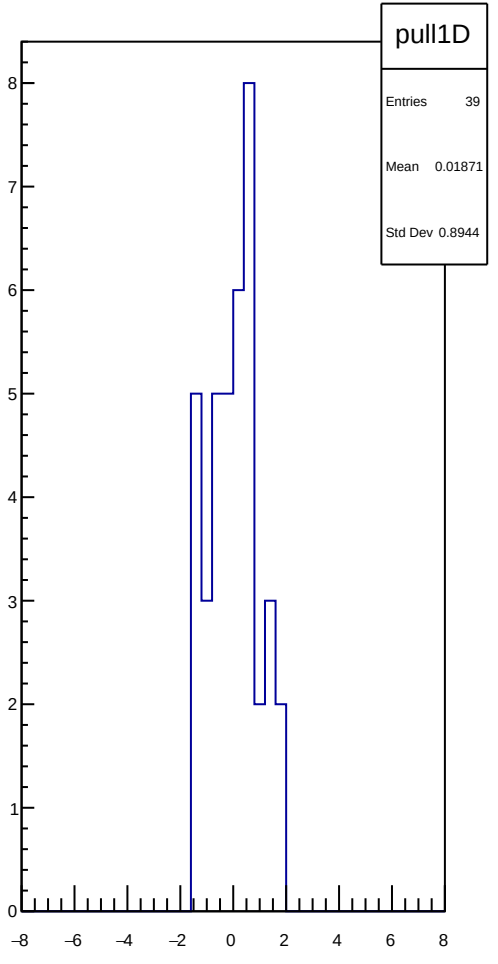

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.559e+05 / 38
p0 3.051e−11 ± 4.305e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

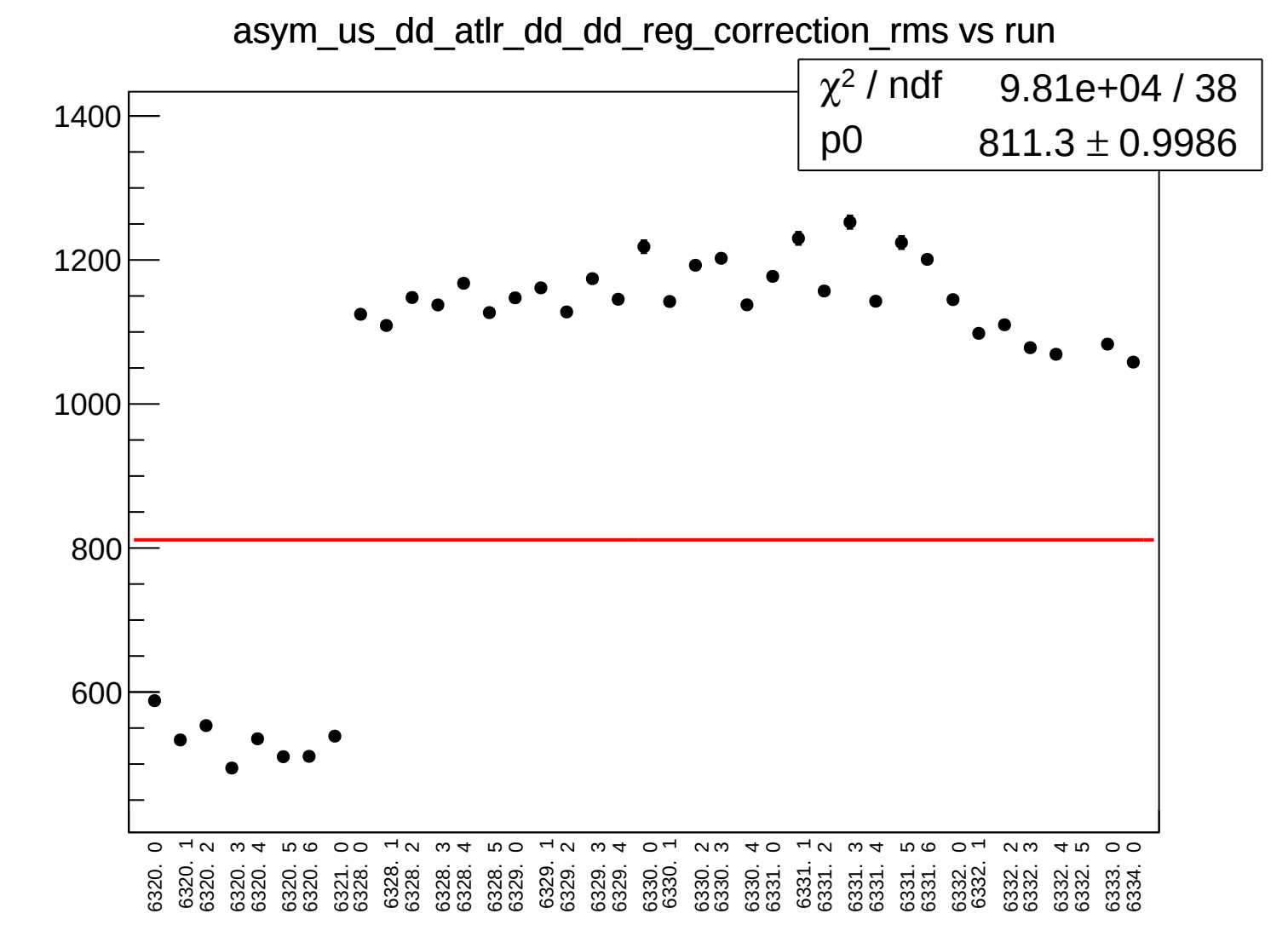

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.91 / 38
p0 4244 ± 2149
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1841
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

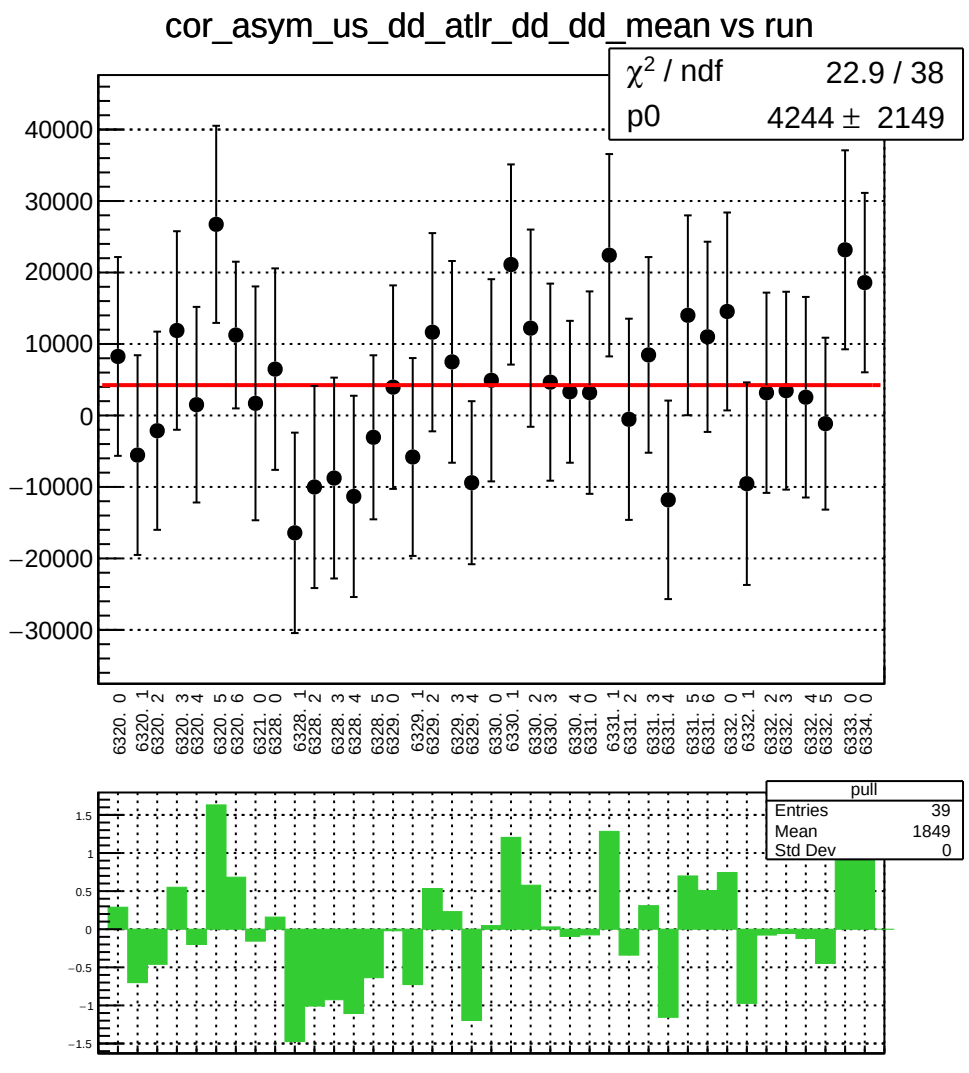

pull1D
Entries 39
Mean 0.0009175
Std Dev 0.7664
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

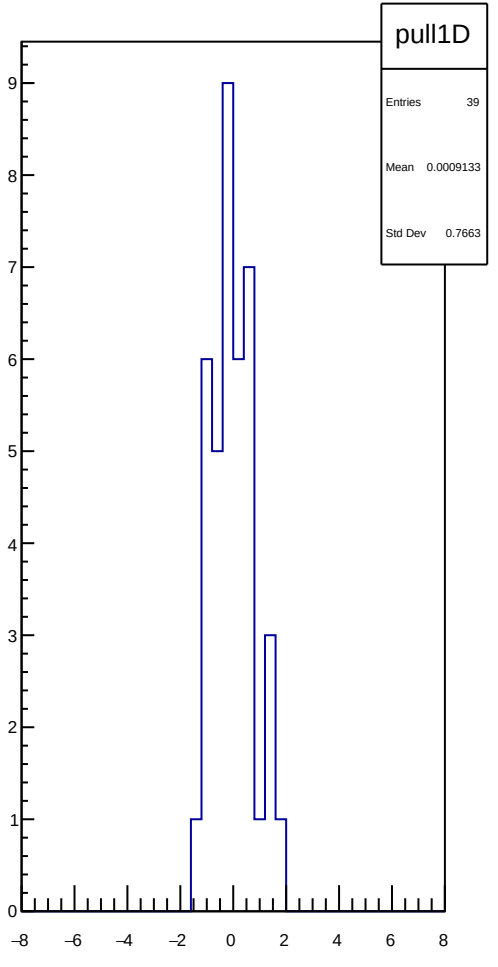

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.41 / 38
p0 1323 ± 1.52
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

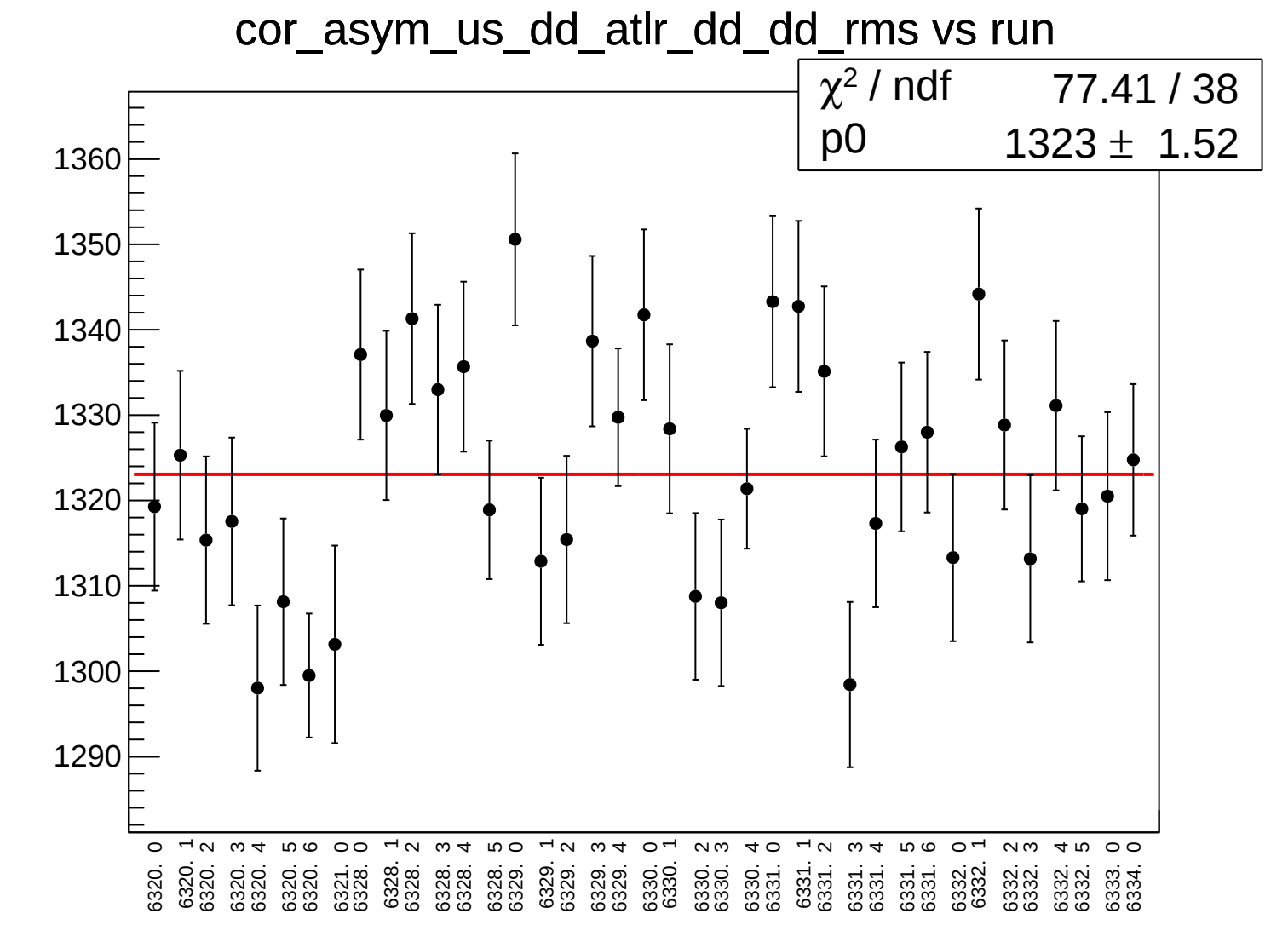

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 31.21 / 38
p0 −322.7 ± 1412
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 89.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

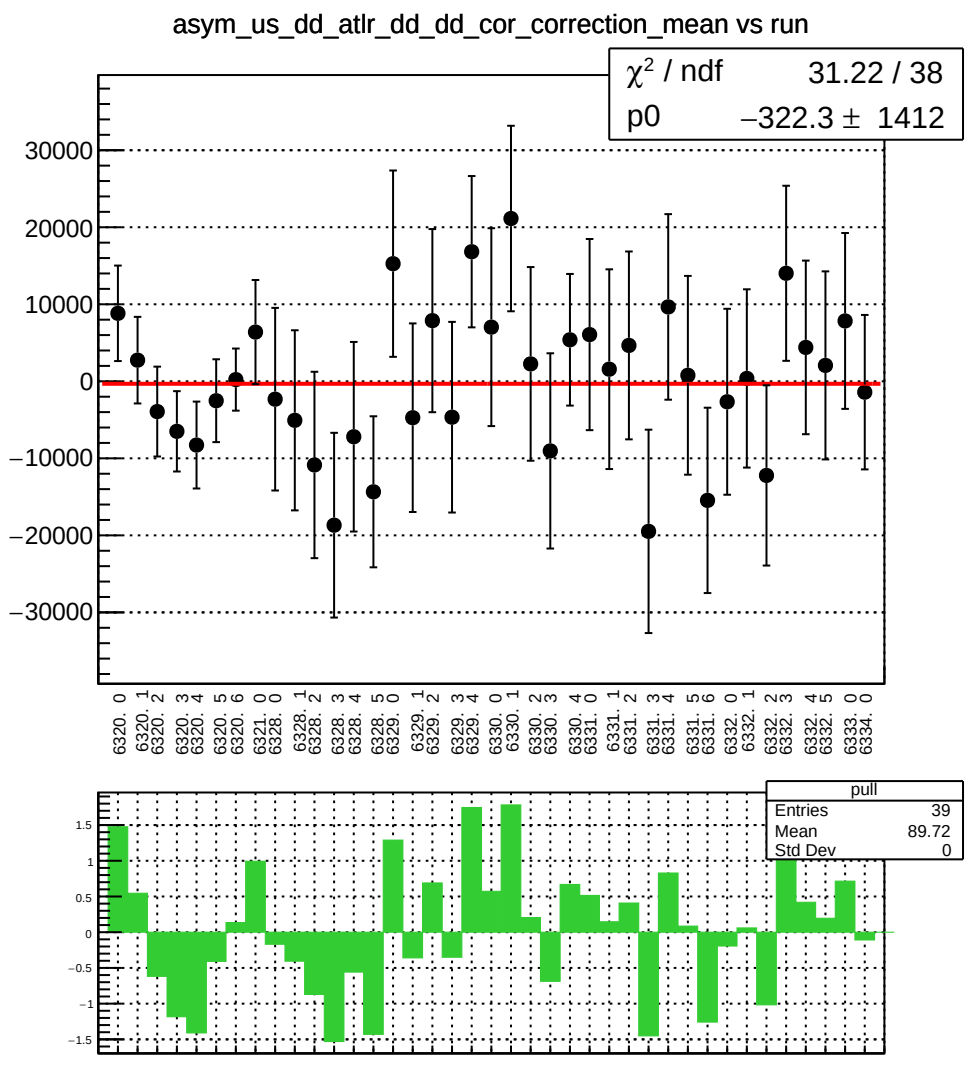

pull1D
Entries 39
Mean 0.01871
Std Dev 0.8944
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

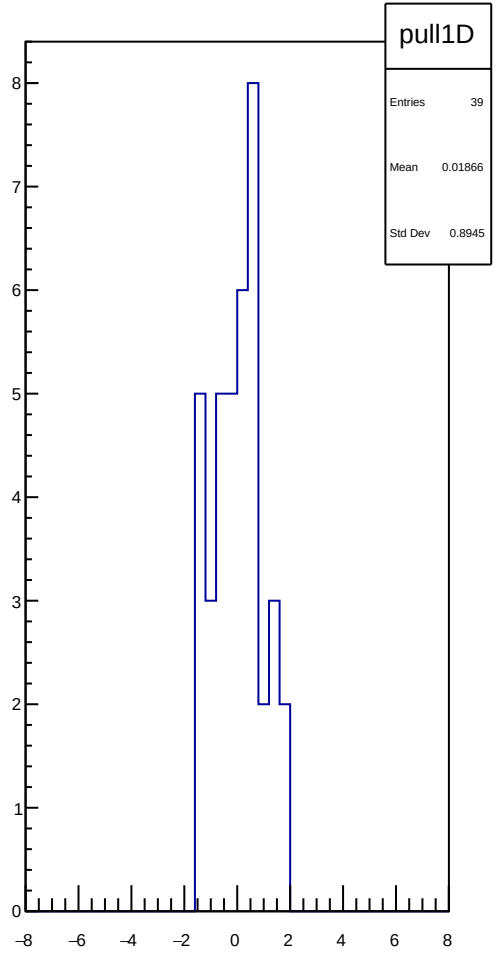

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 9.81e+04 / 38
p0 811.3 ± 0.9986
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

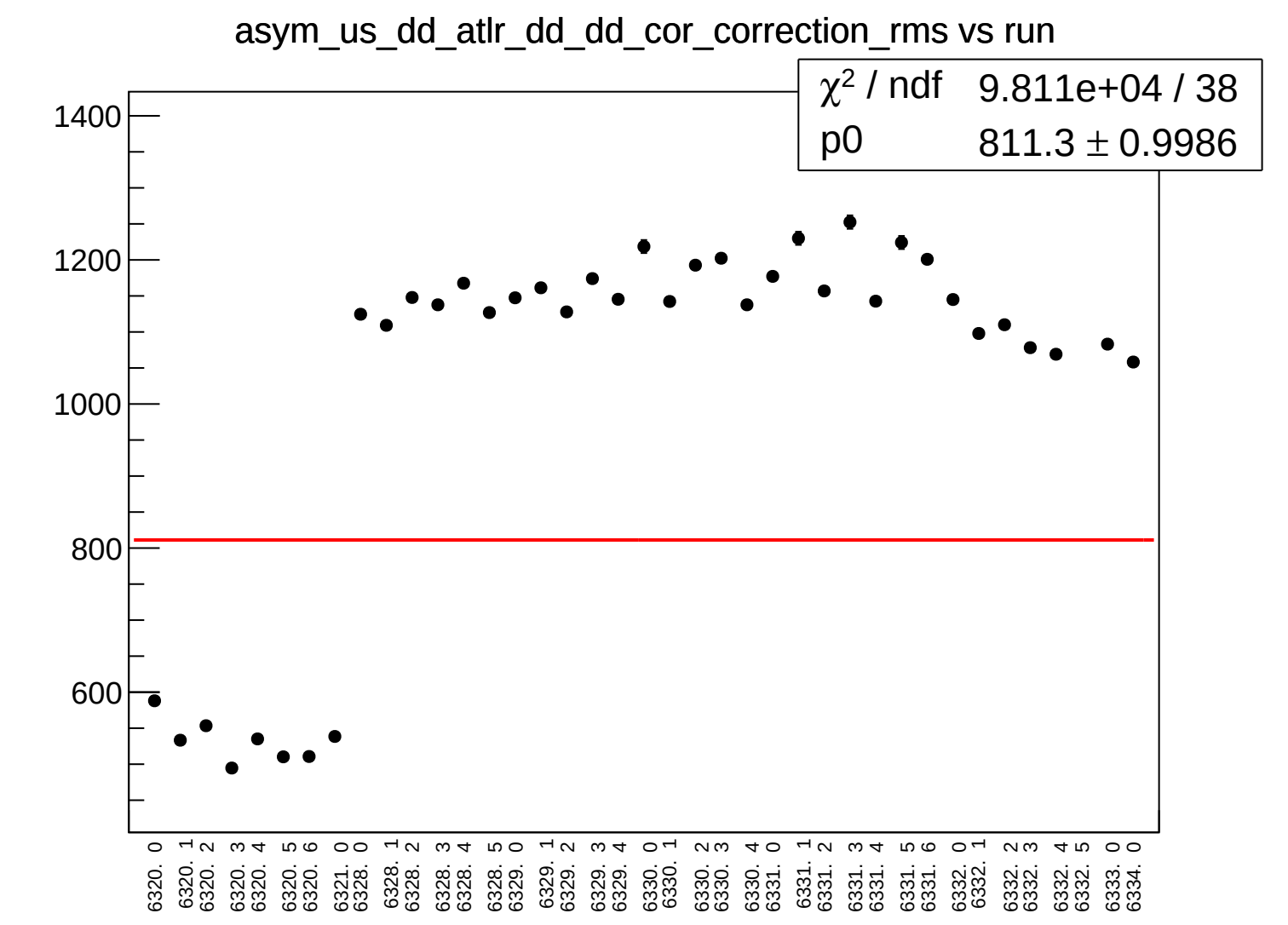

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.9 / 38
p0 4244 ± 2149
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1849
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

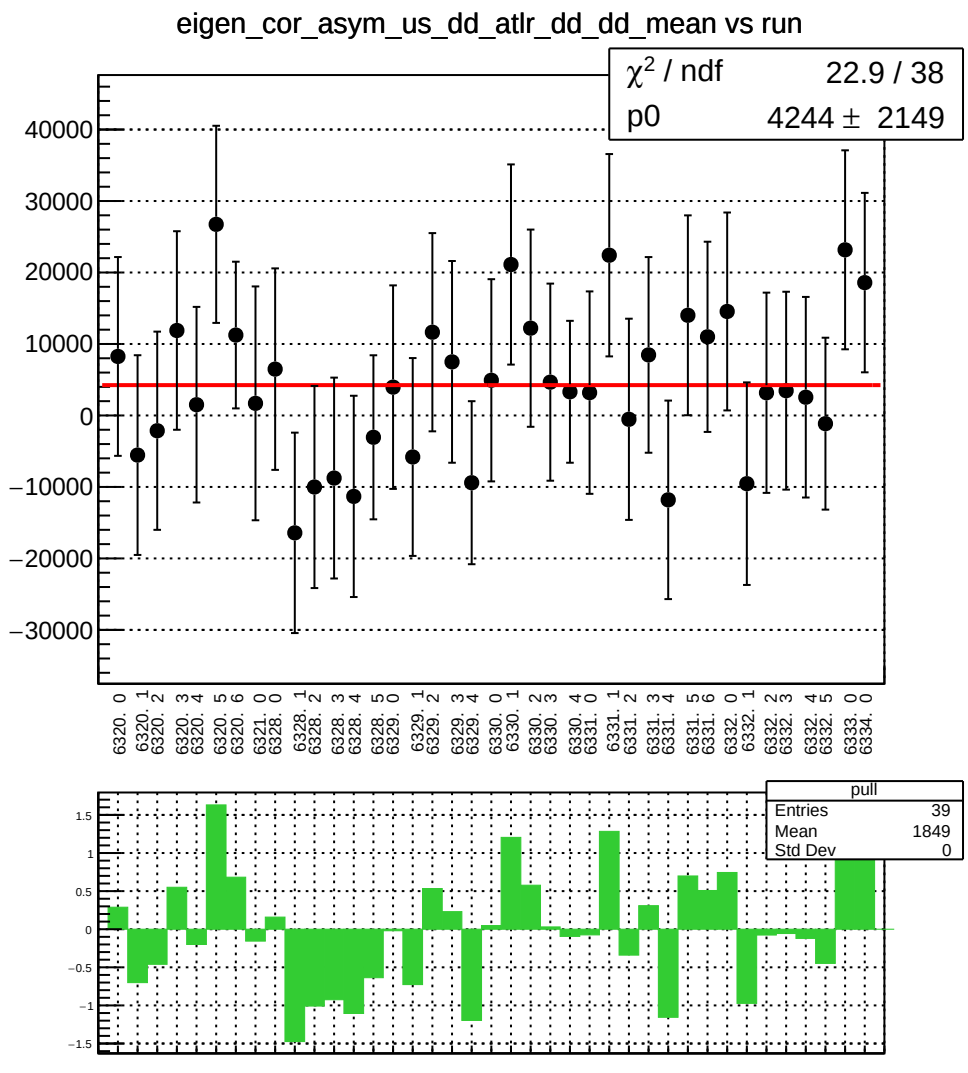

pull1D
Entries 39
Mean 0.0009133
Std Dev 0.7663
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

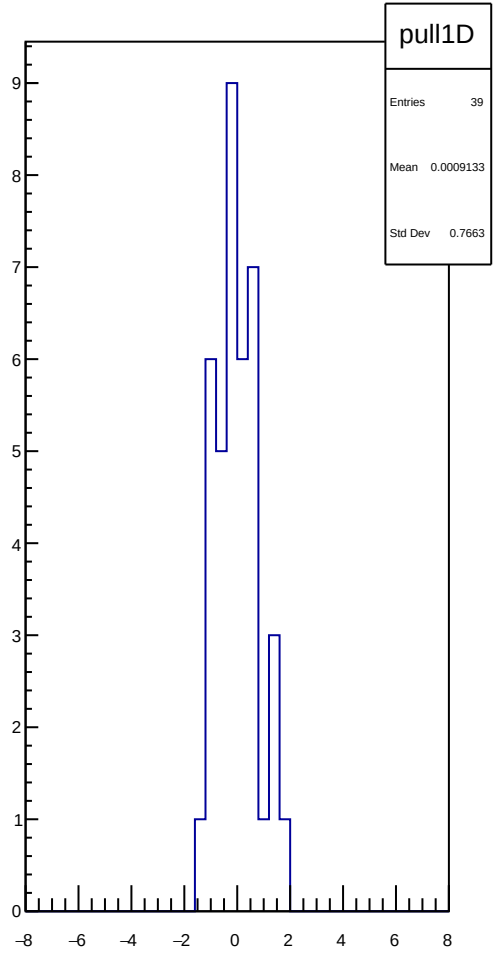

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.41 / 38
p0 1323 ± 1.52
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

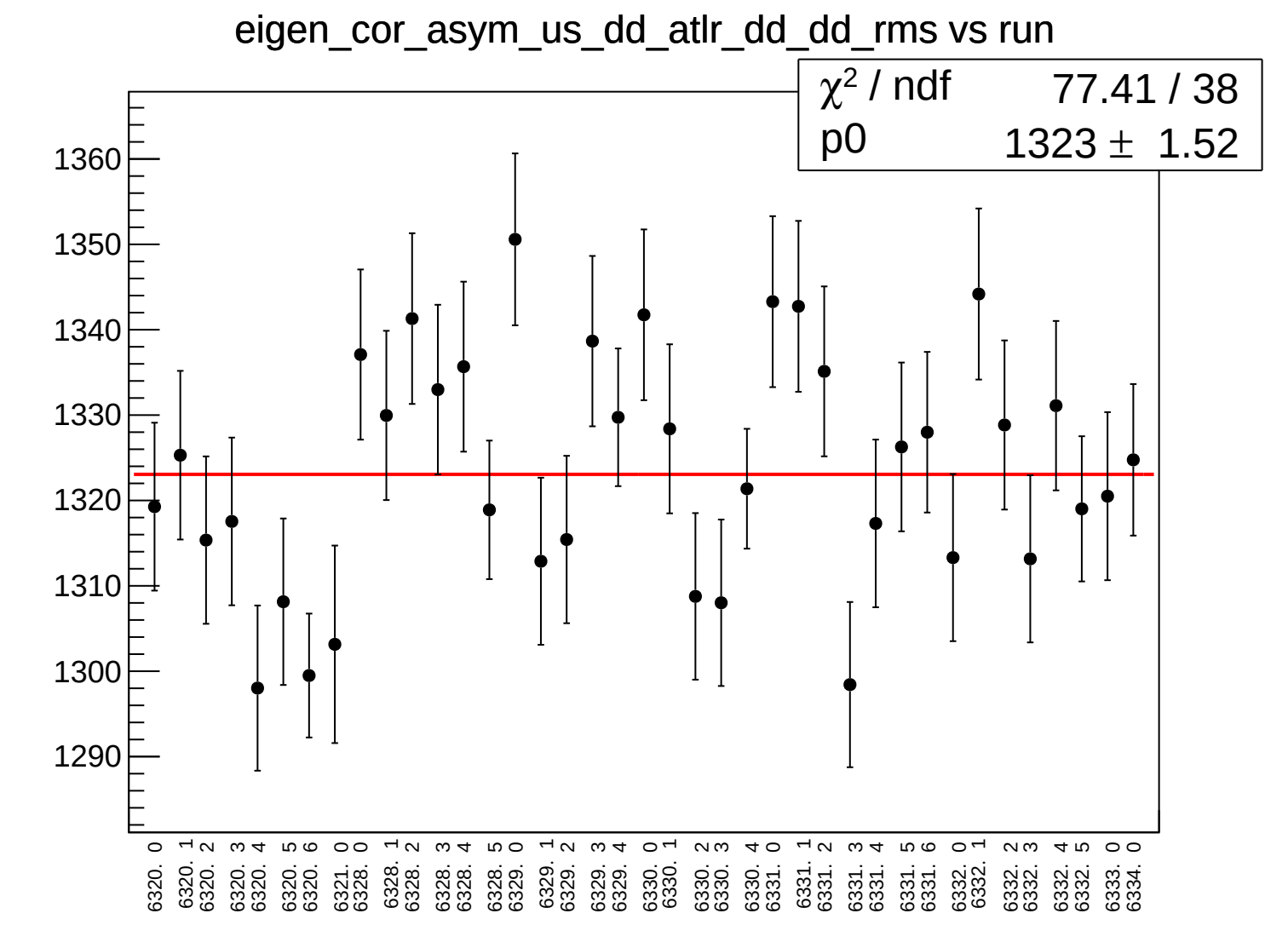

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 31.22 / 38
p0 −322.3 ± 1412
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 89.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

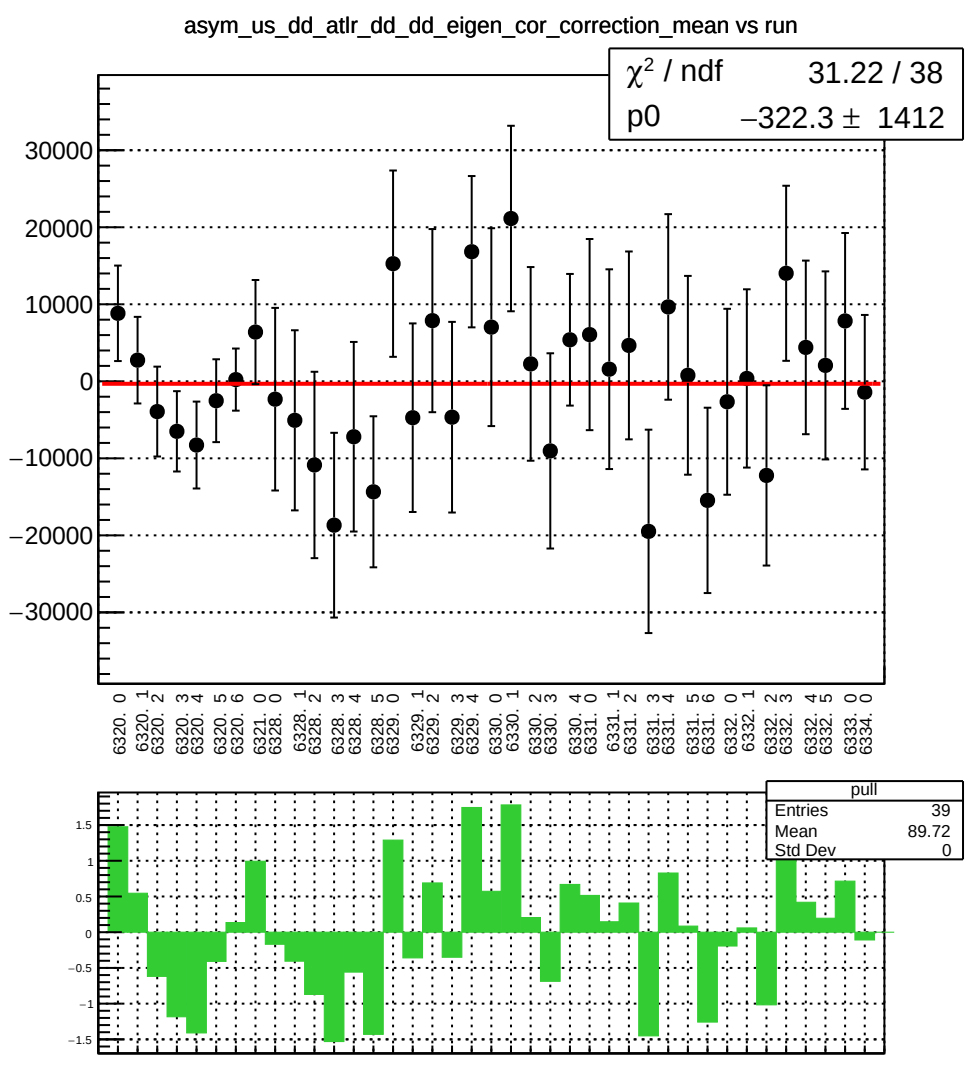

pull1D
Entries 39
Mean 0.01866
Std Dev 0.8945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

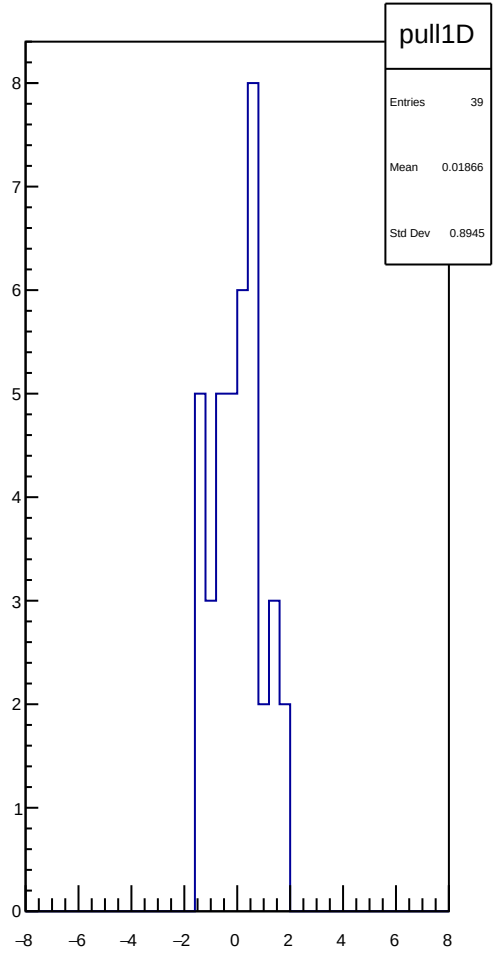

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 9.811e+04 / 38
p0 811.3 ± 0.9986
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

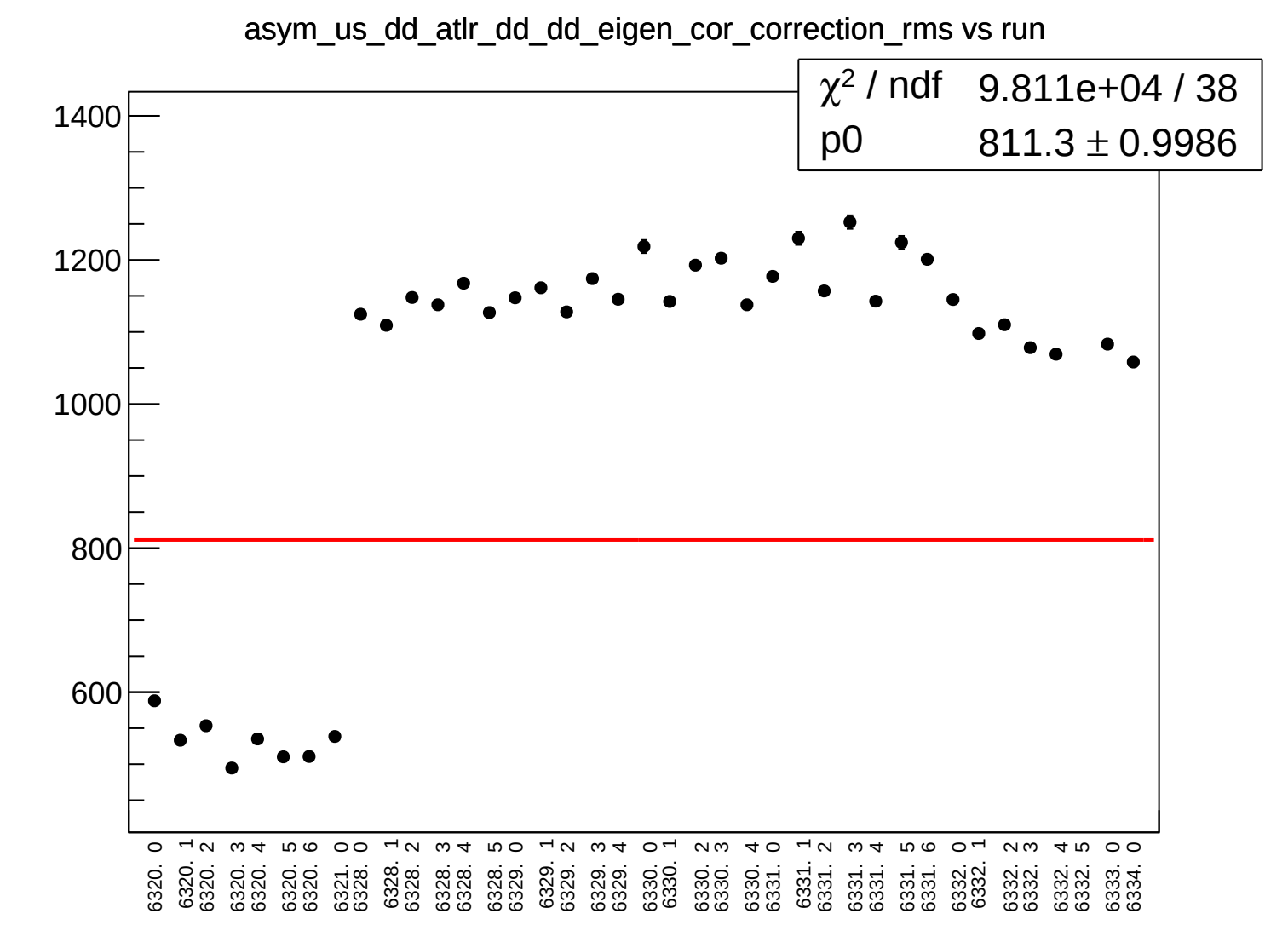

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.9 / 38
p0 4244 ± 2149
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1849
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

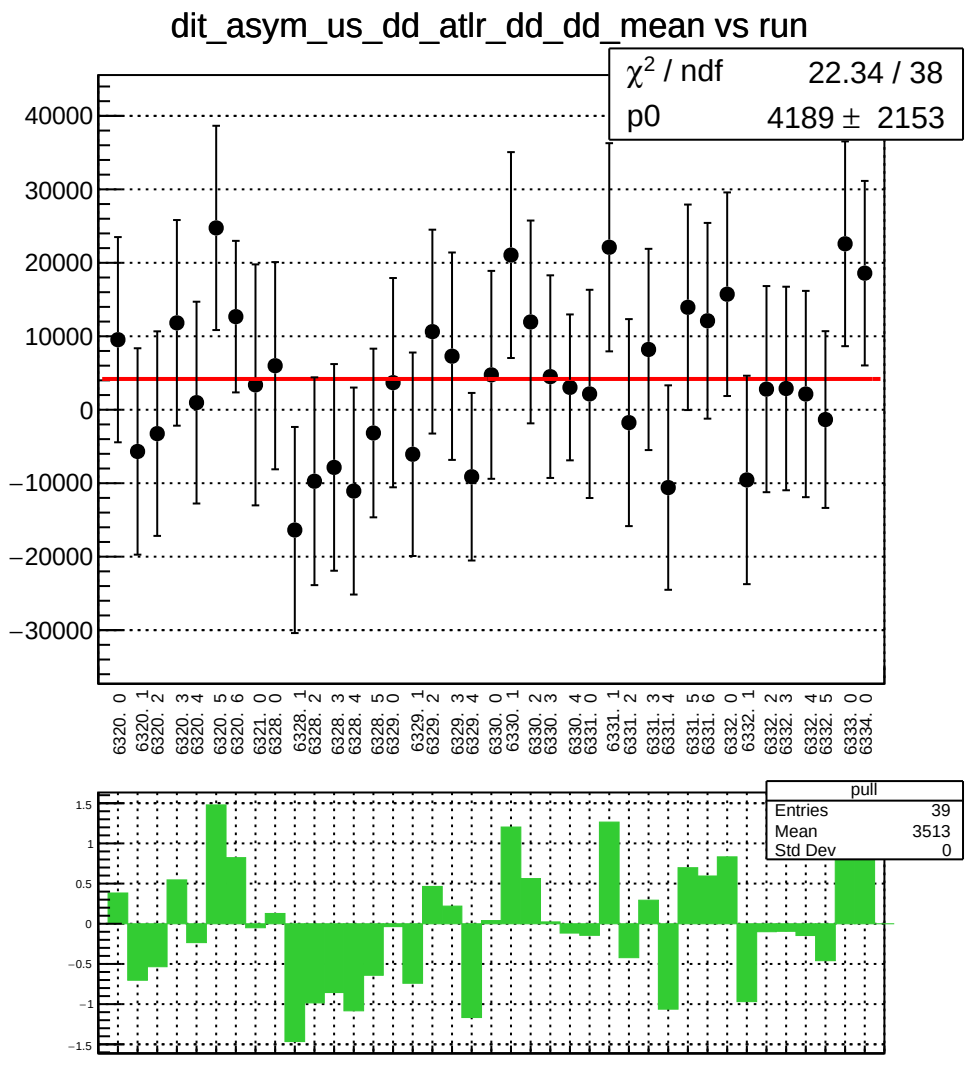

pull1D
Entries 39
Mean 0.0009133
Std Dev 0.7663
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

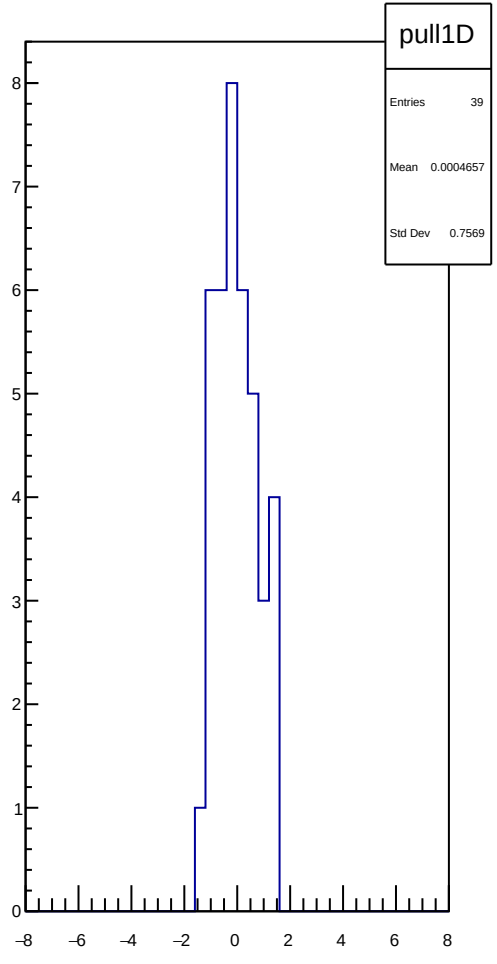

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.41 / 38
p0 1323 ± 1.52
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

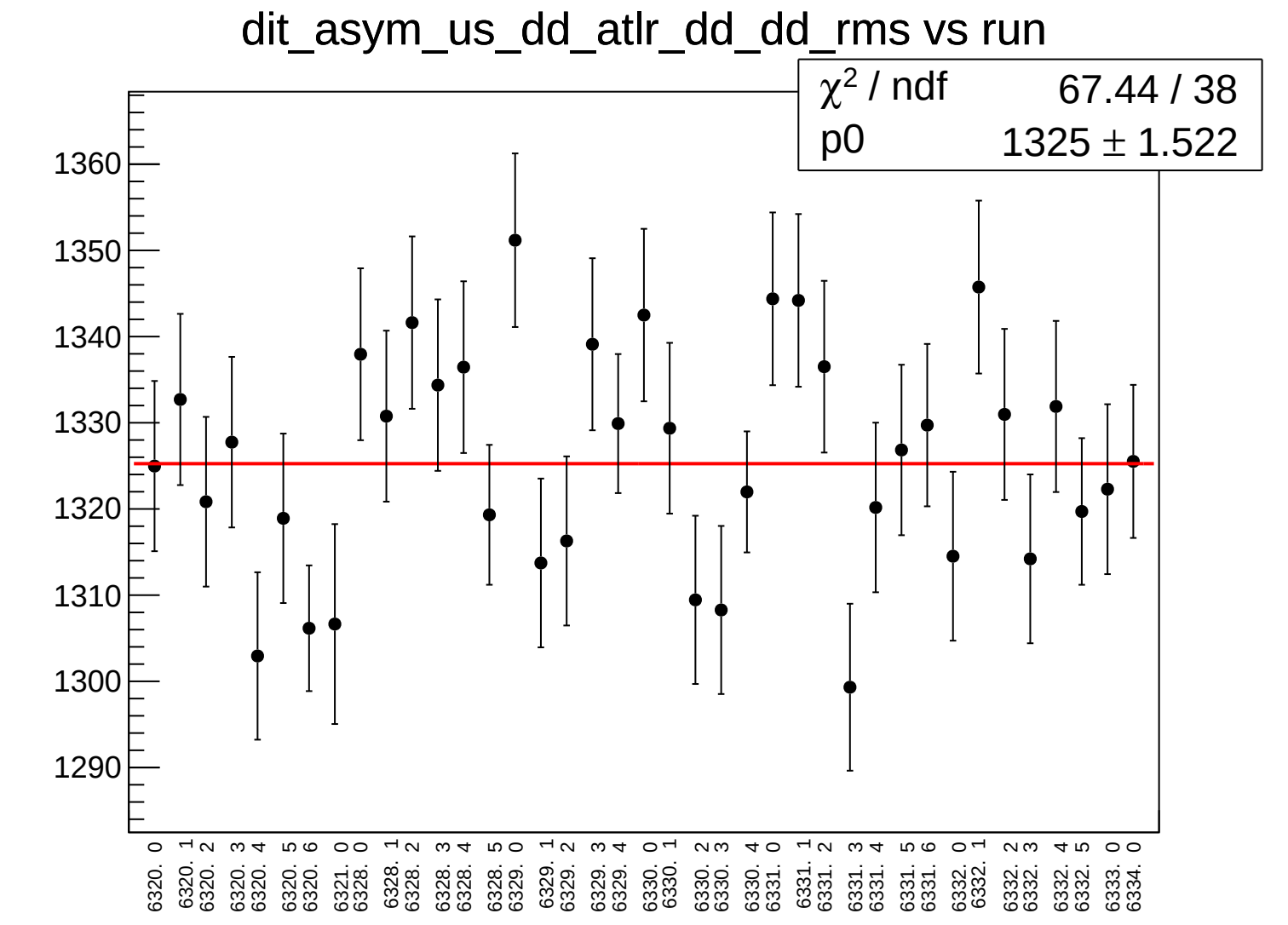

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.22 / 38
p0 −322.3 ± 1412
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 89.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

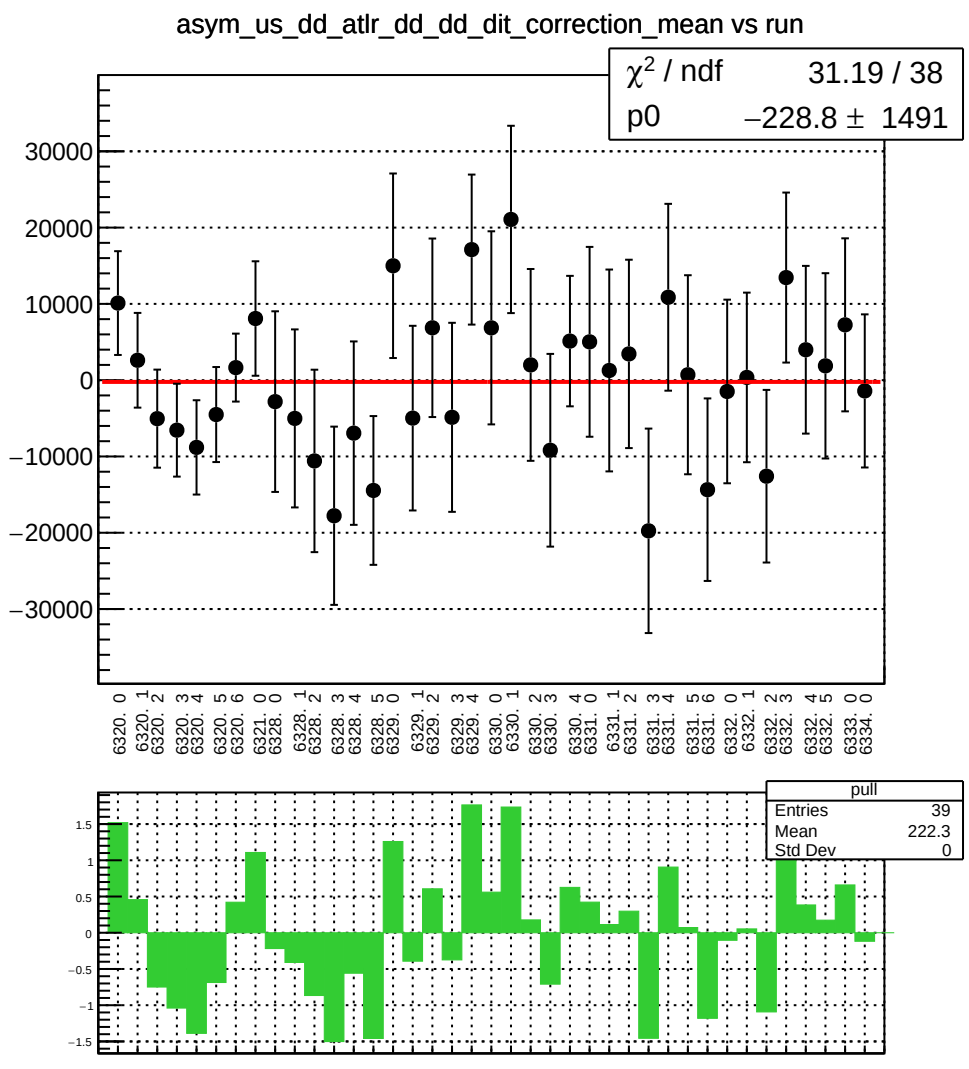

pull1D
Entries 39
Mean 0.01866
Std Dev 0.8945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

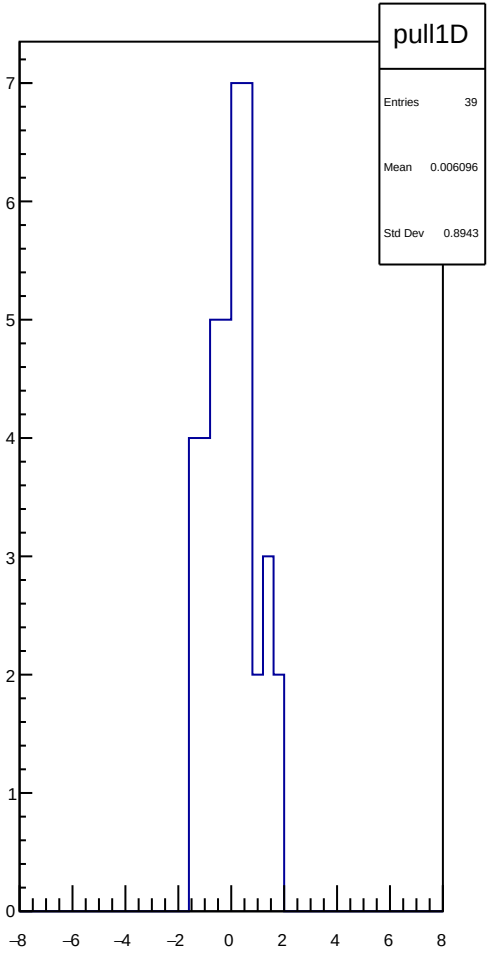

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.811e+04 / 38
p0 811.3 ± 0.9986
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

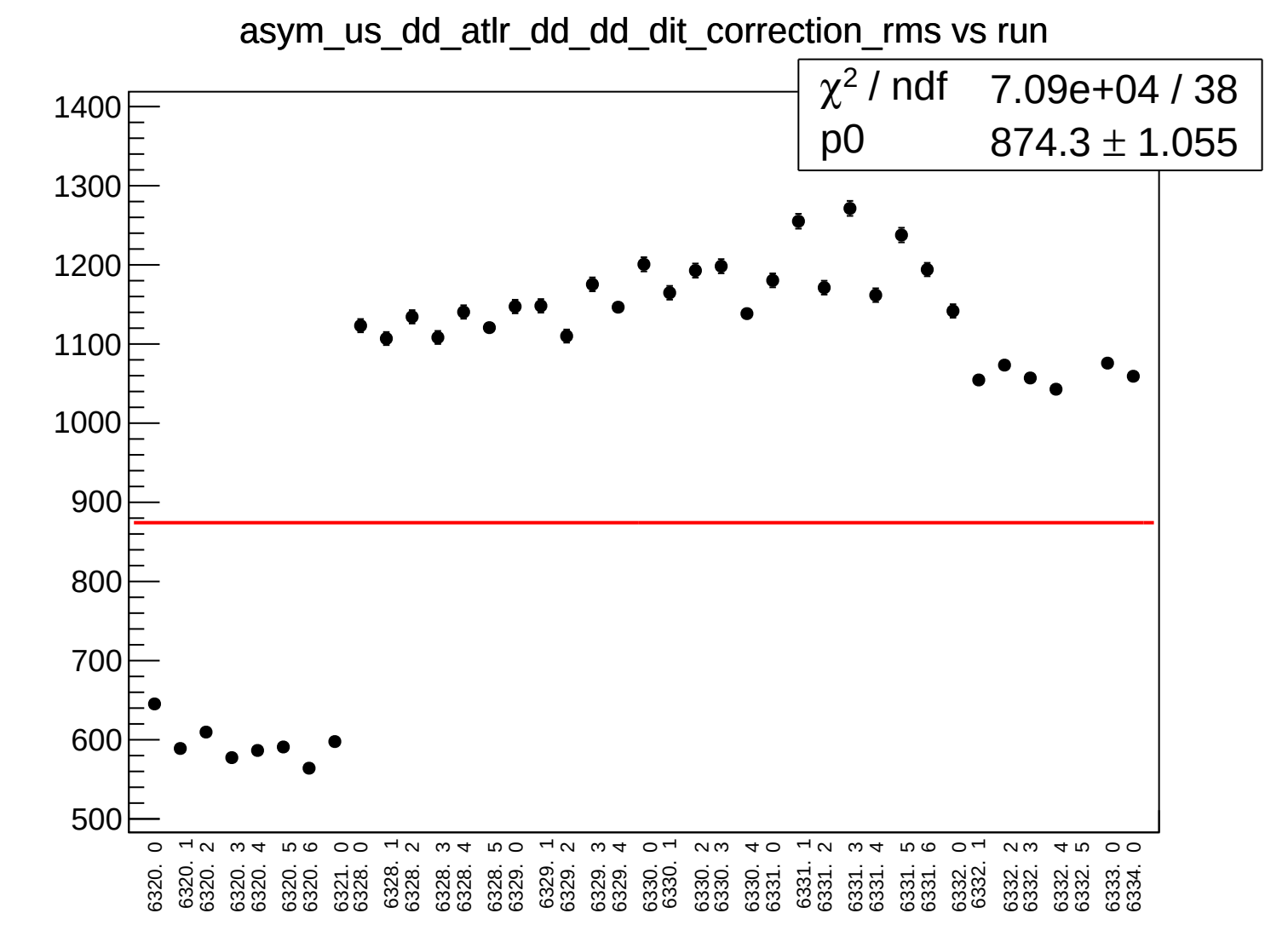

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.34 / 38
p0 4189 ± 2153
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3513
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

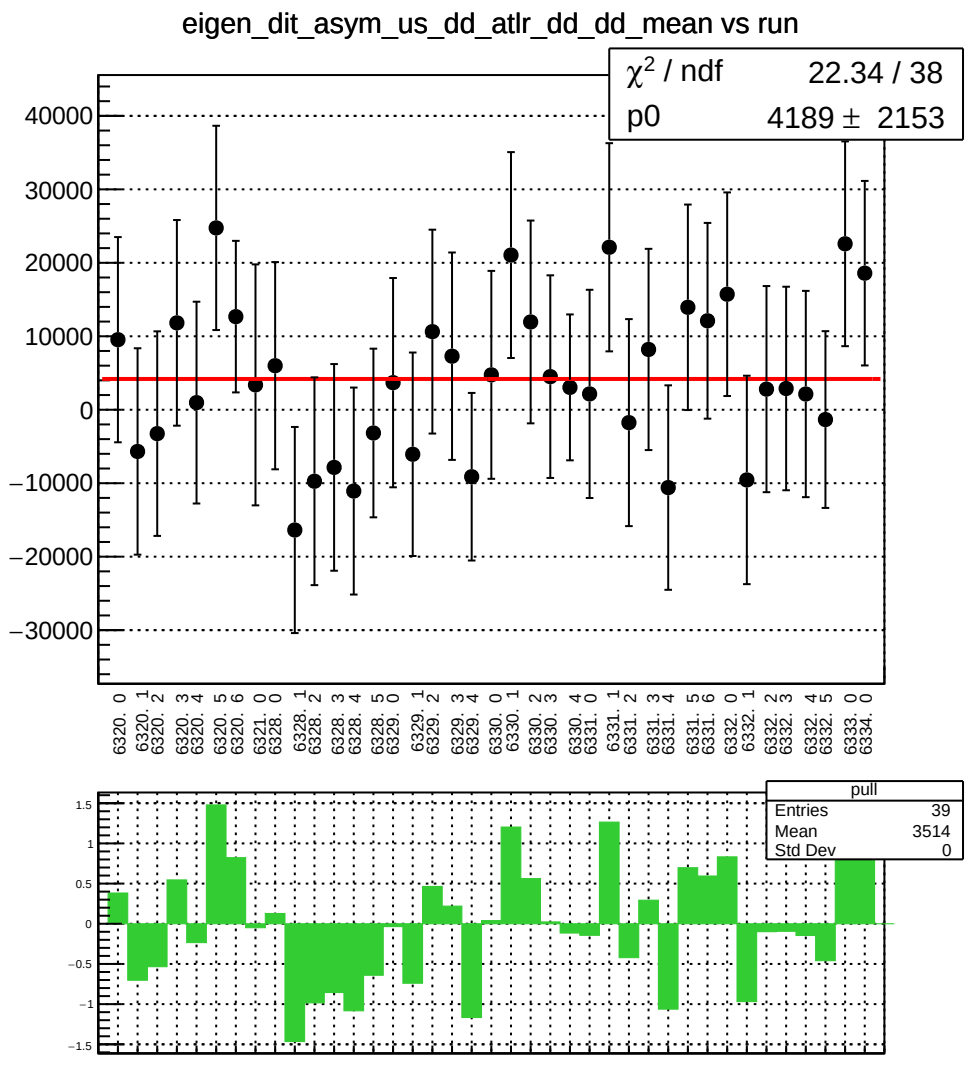

pull1D
Entries 39
Mean 0.0004657
Std Dev 0.7569
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

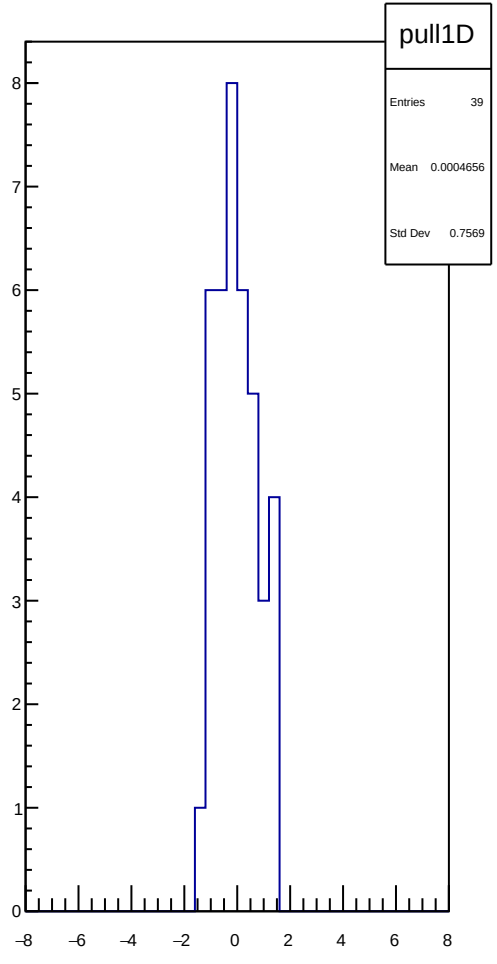

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 67.44 / 38
p0 1325 ± 1.522
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

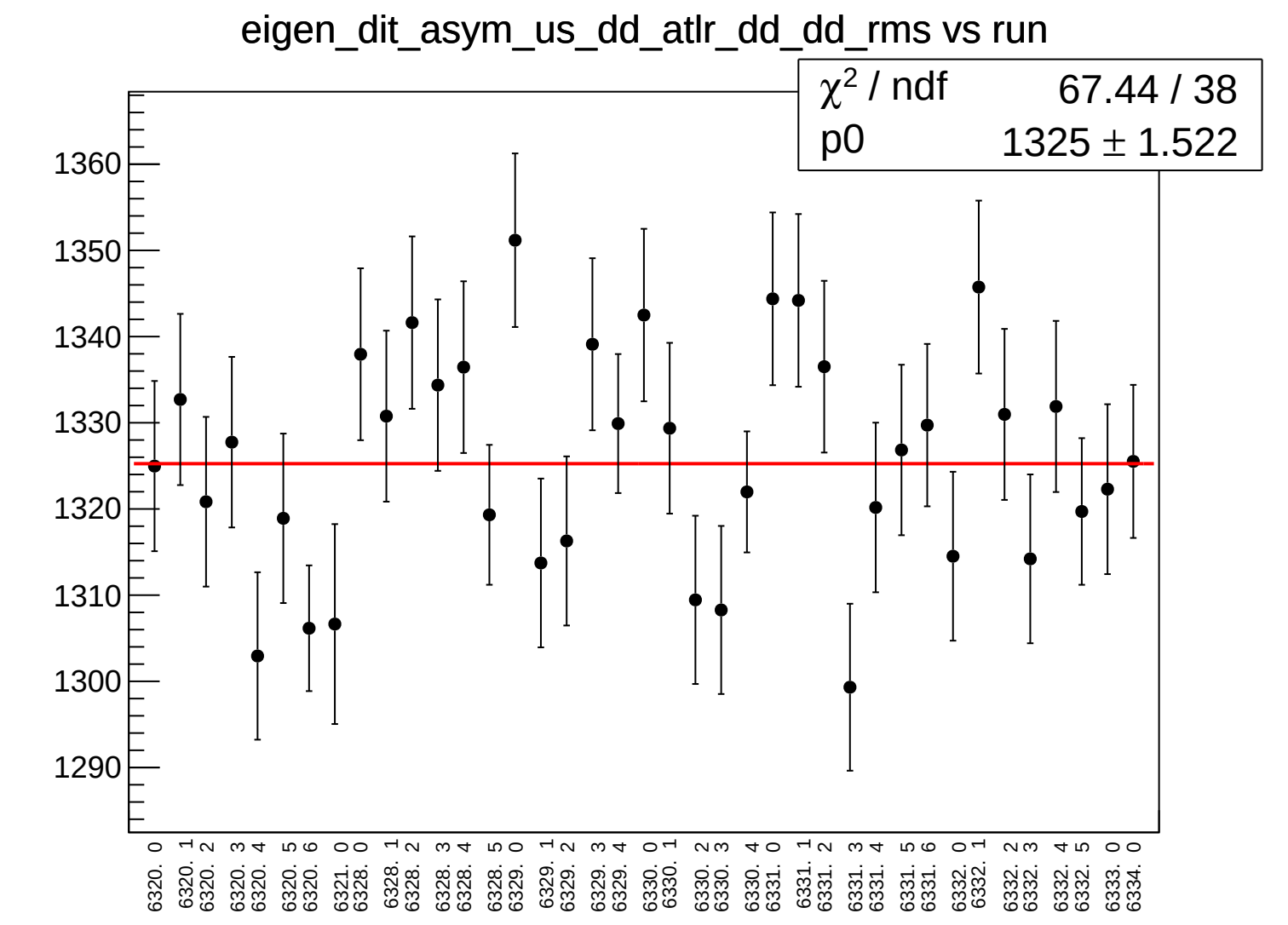

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 31.19 / 38
p0 −228.8 ± 1491
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 222.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

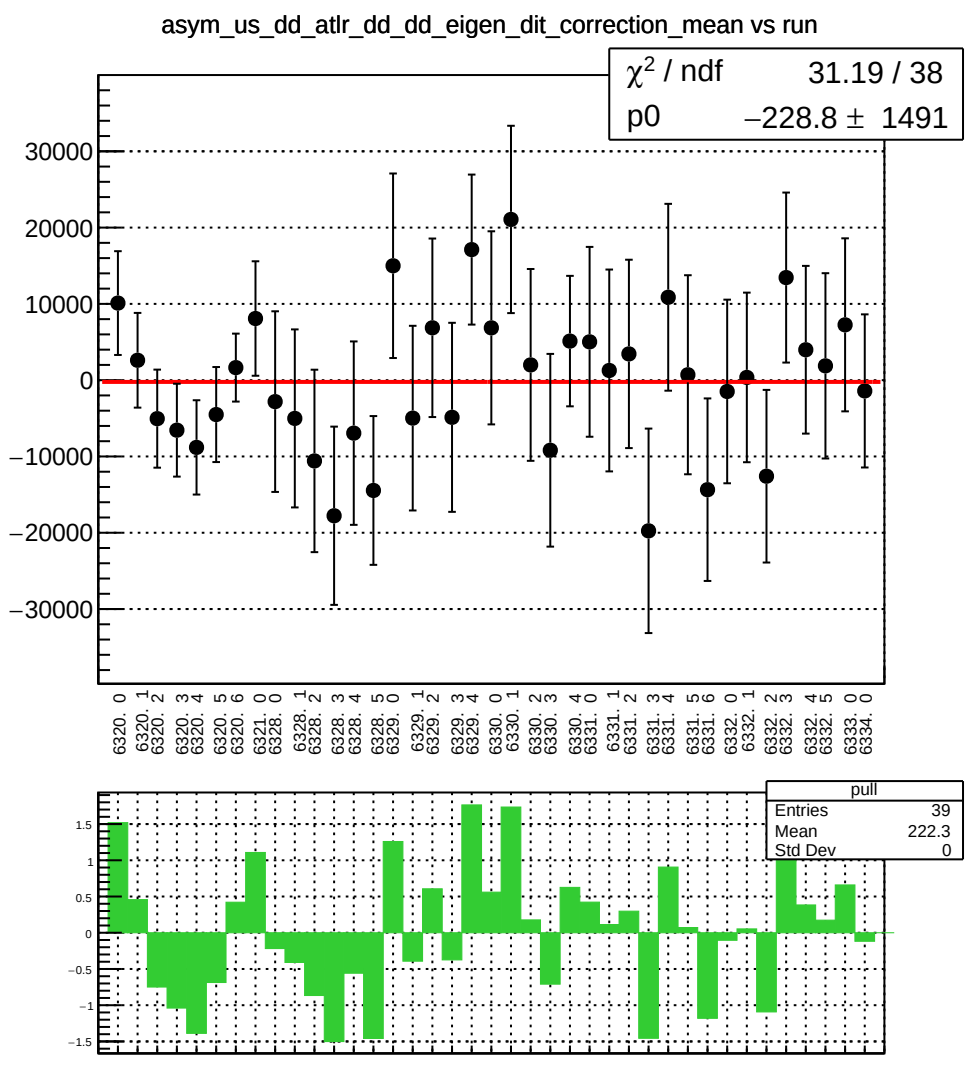

pull1D
Entries 39
Mean 0.006096
Std Dev 0.8943
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

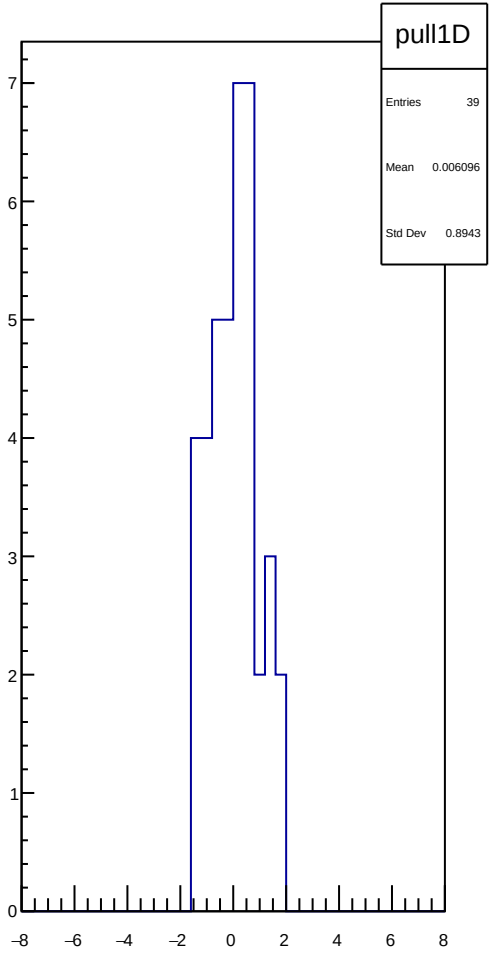

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 7.09e+04 / 38
p0 874.3 ± 1.055
1400
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

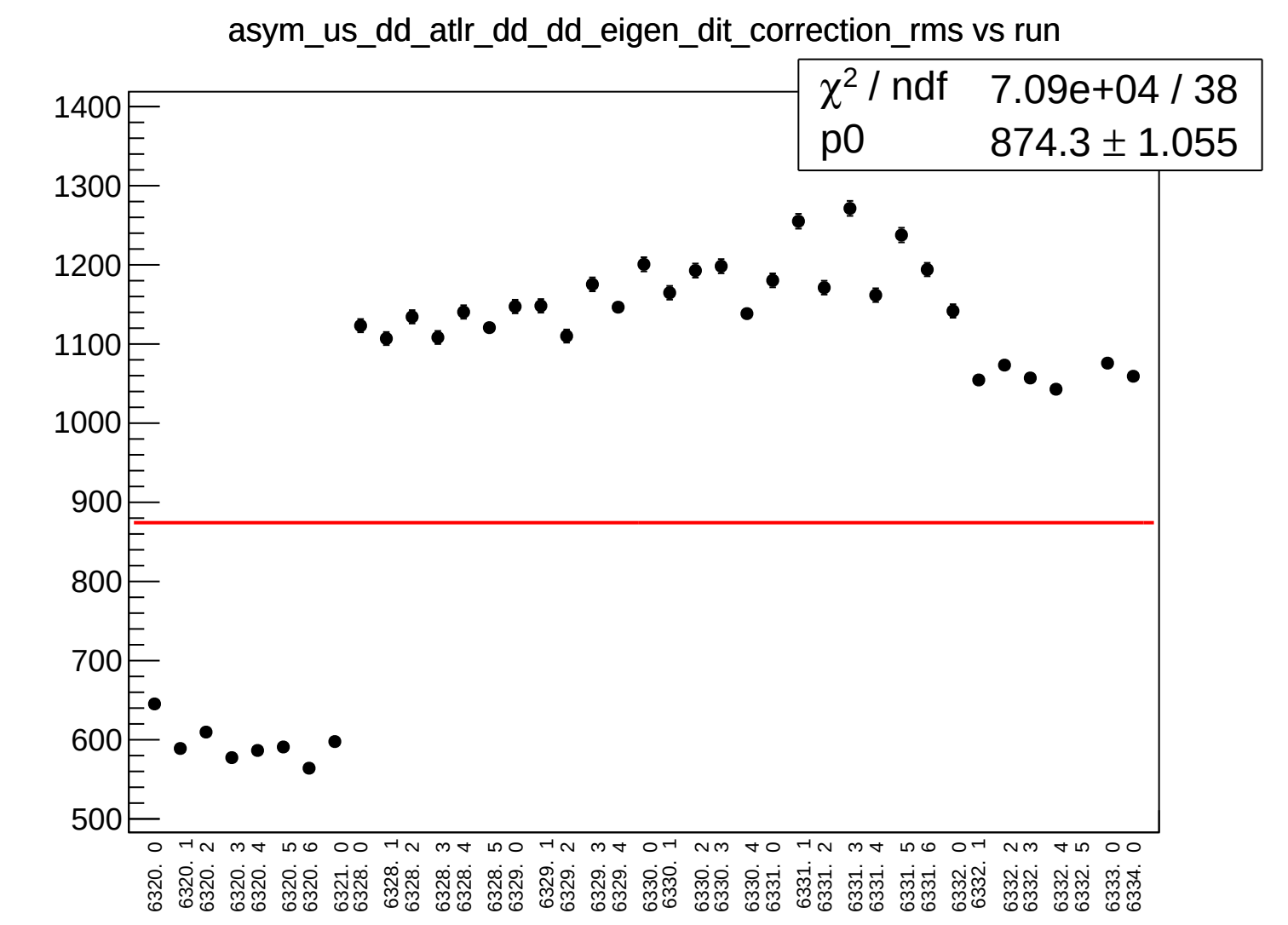

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.34 / 38
p0 4189 ± 2153
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3514
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

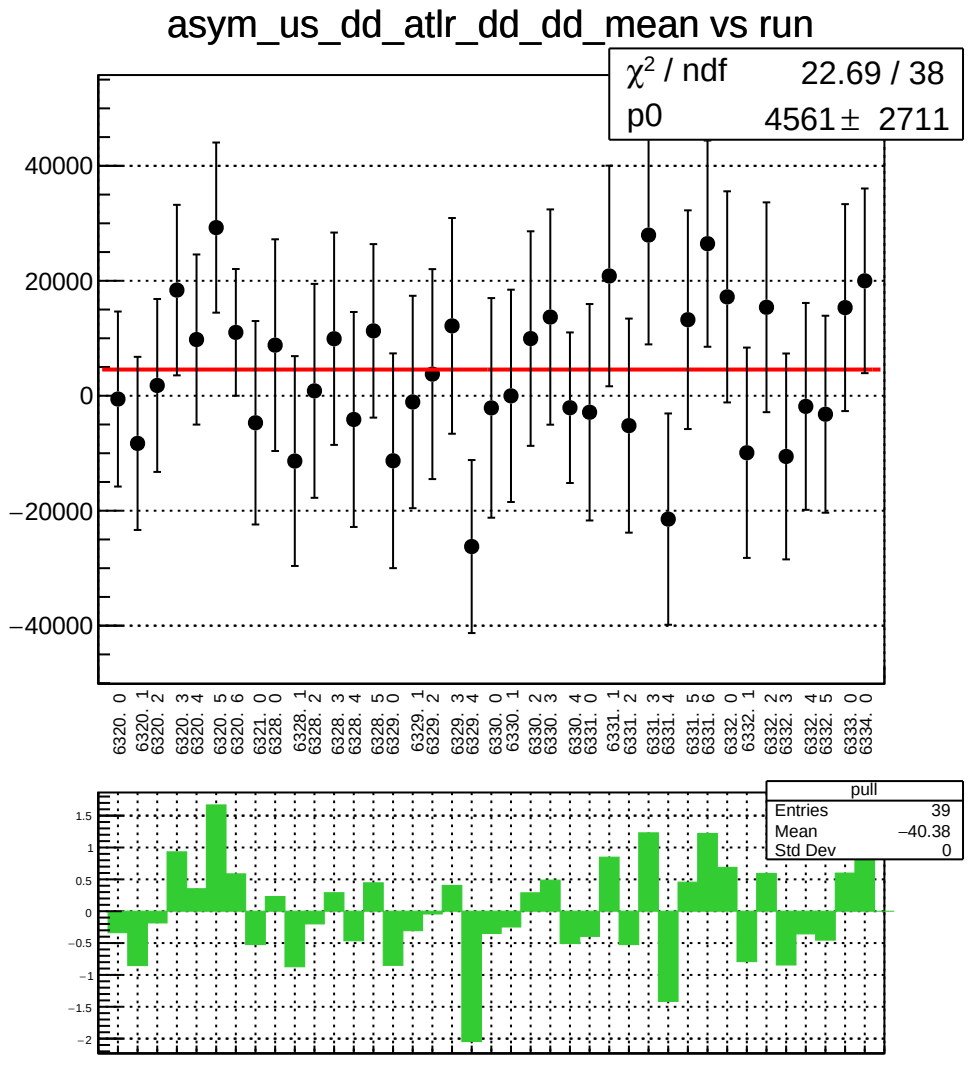

pull1D
Entries 39
Mean 0.0004656
Std Dev 0.7569
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

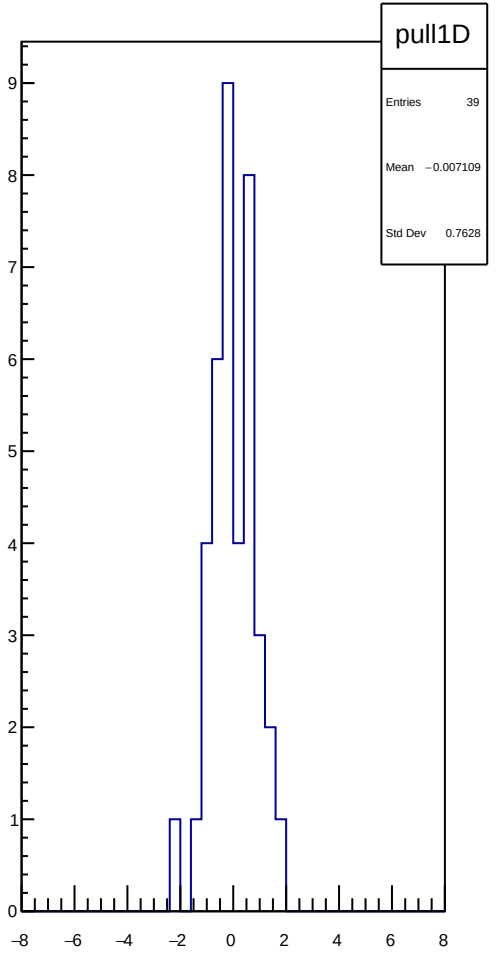

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 67.44 / 38
p0 1325 ± 1.522
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

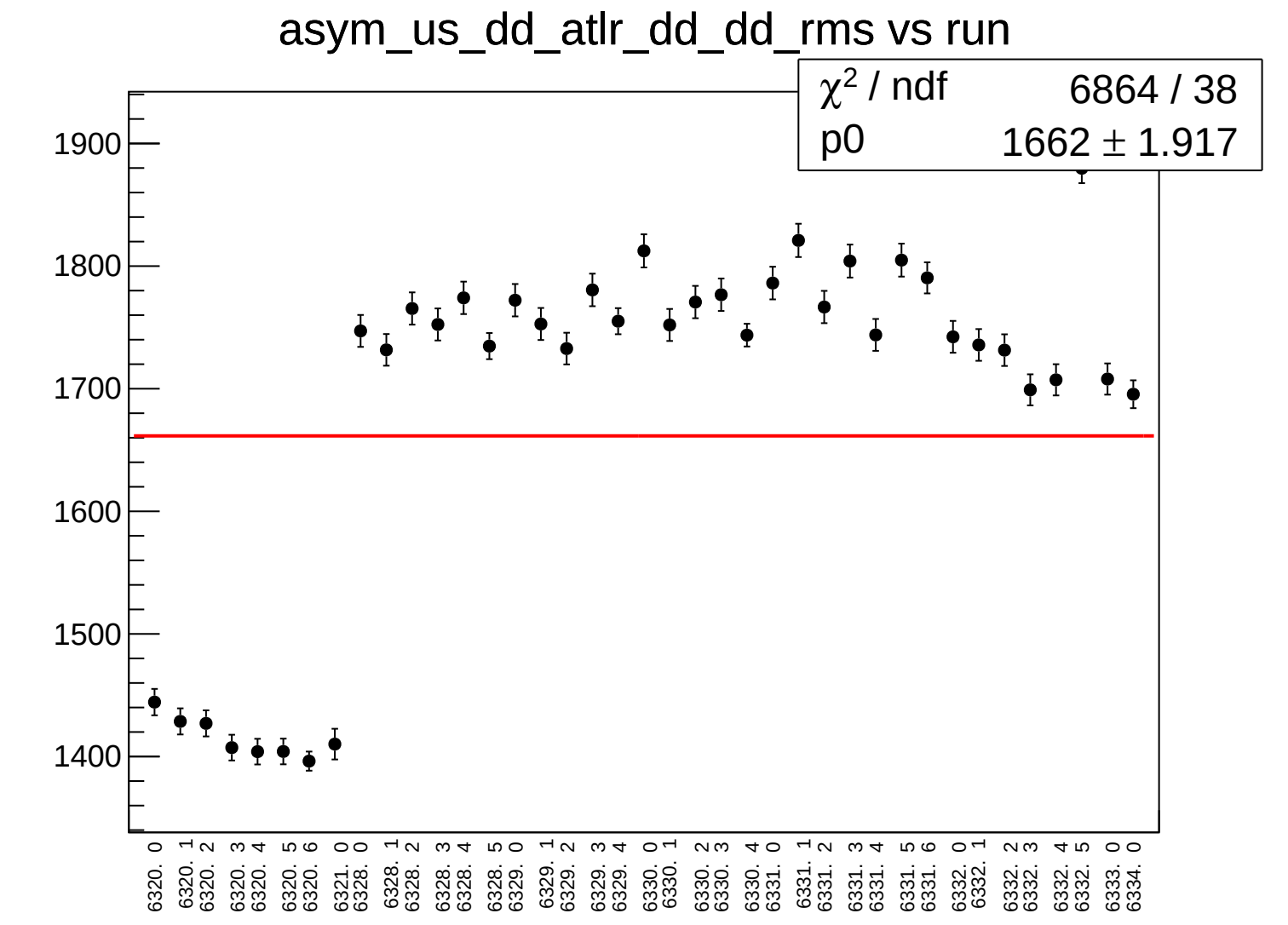

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.19 / 38
p0 −228.8 ± 1491
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 222.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

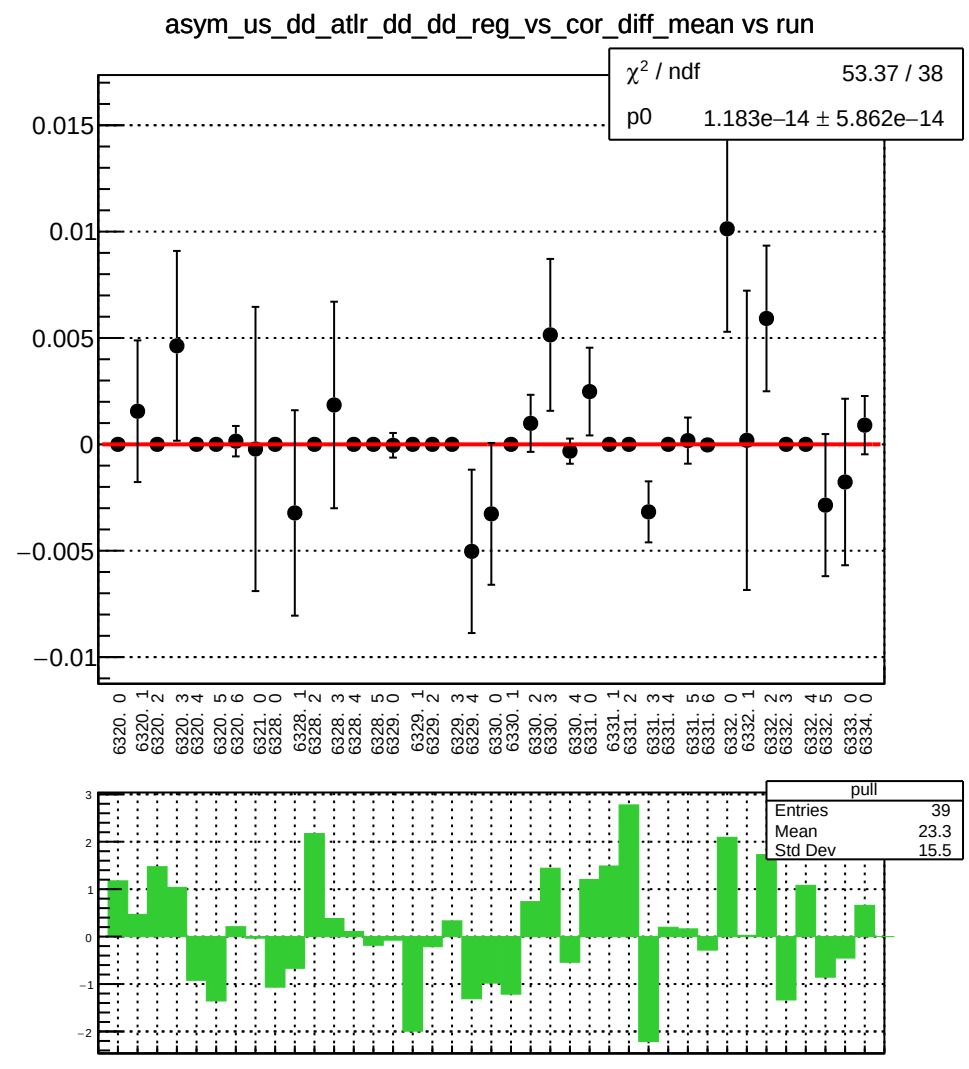

pull1D
Entries 39
Mean 0.006096
Std Dev 0.8943
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

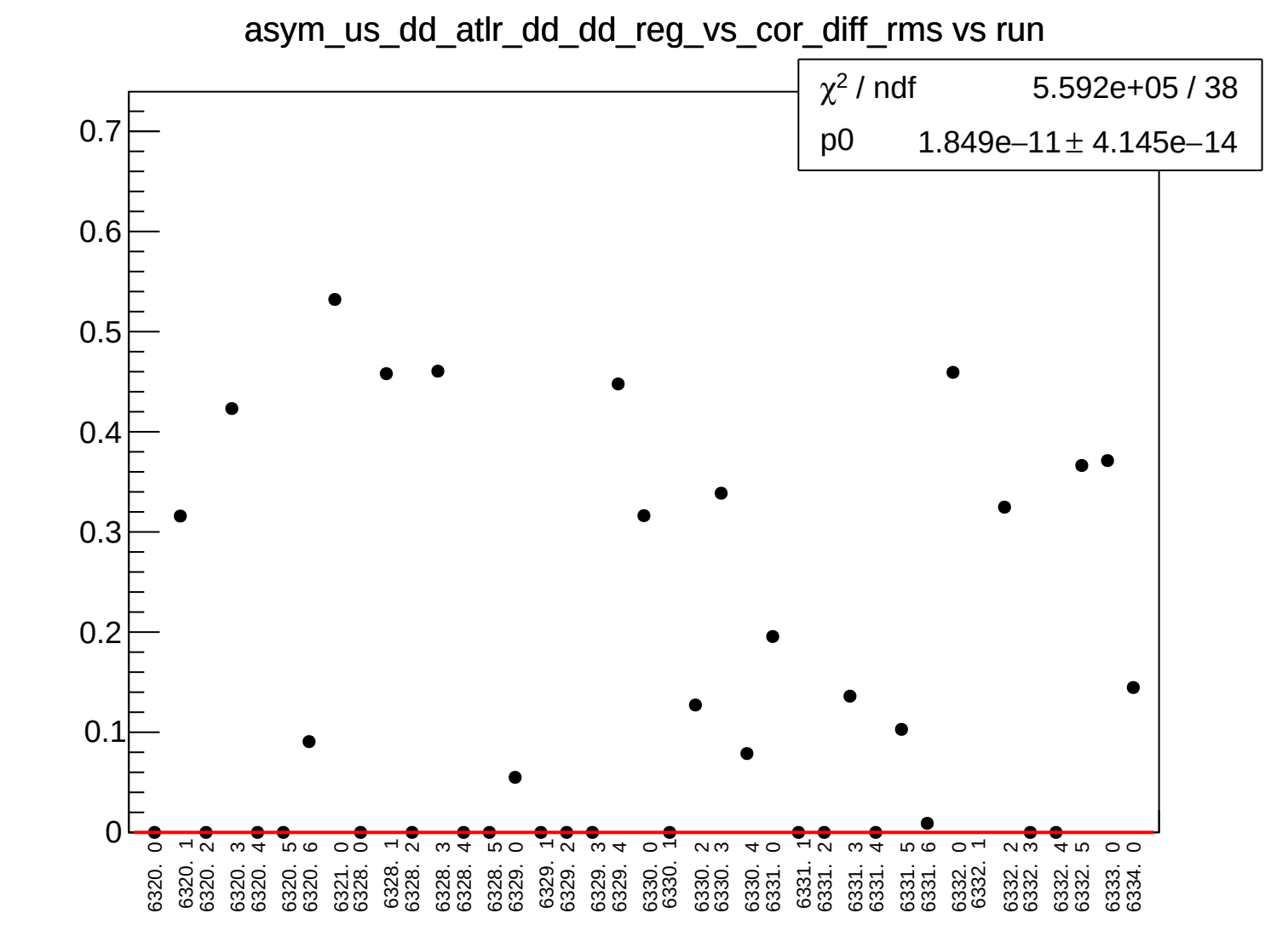

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.09e+04 / 38
p0 874.3 ± 1.055
1400
1300
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

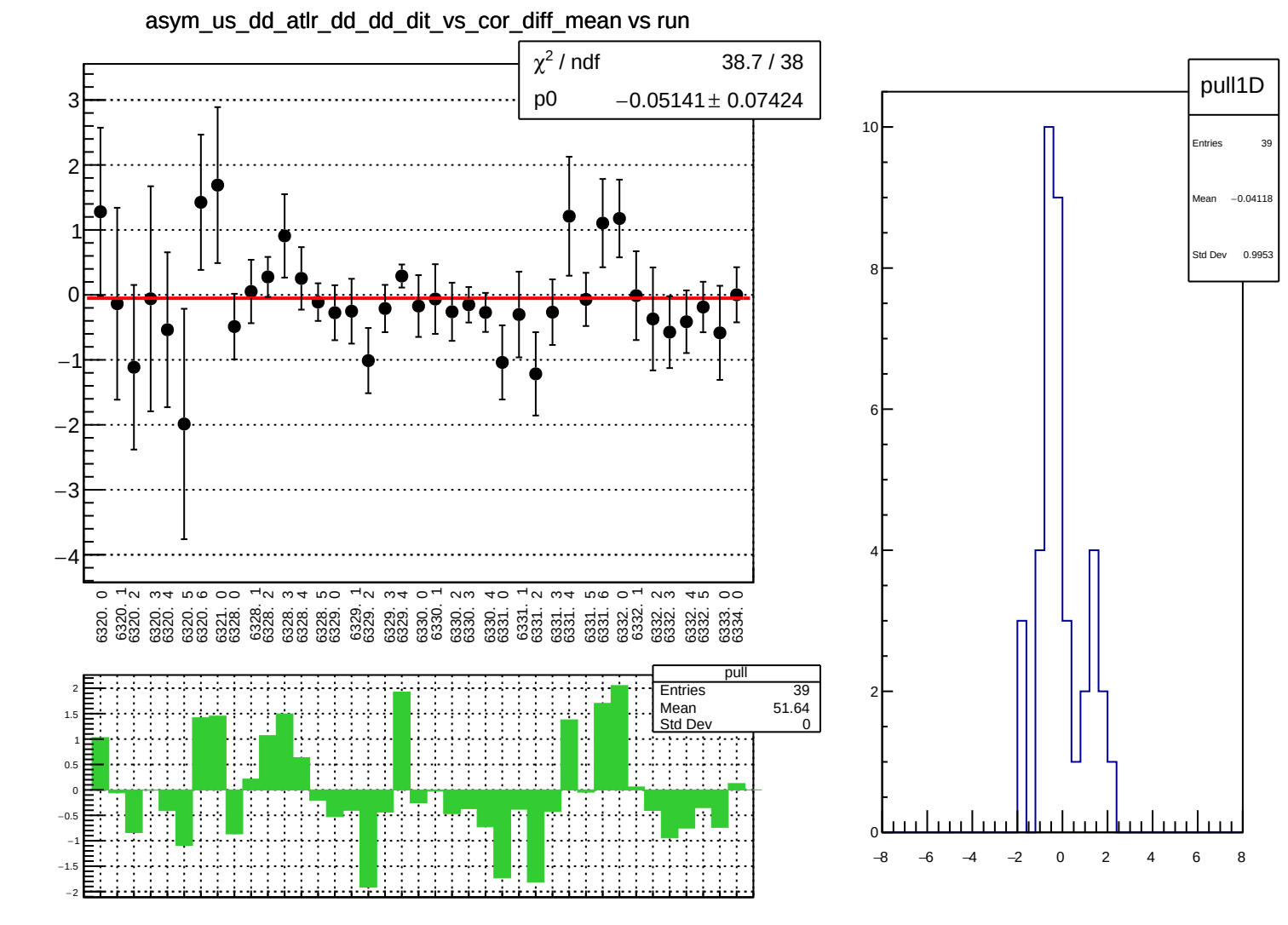

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 22.69 / 38
p0 4561 ± 2711
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

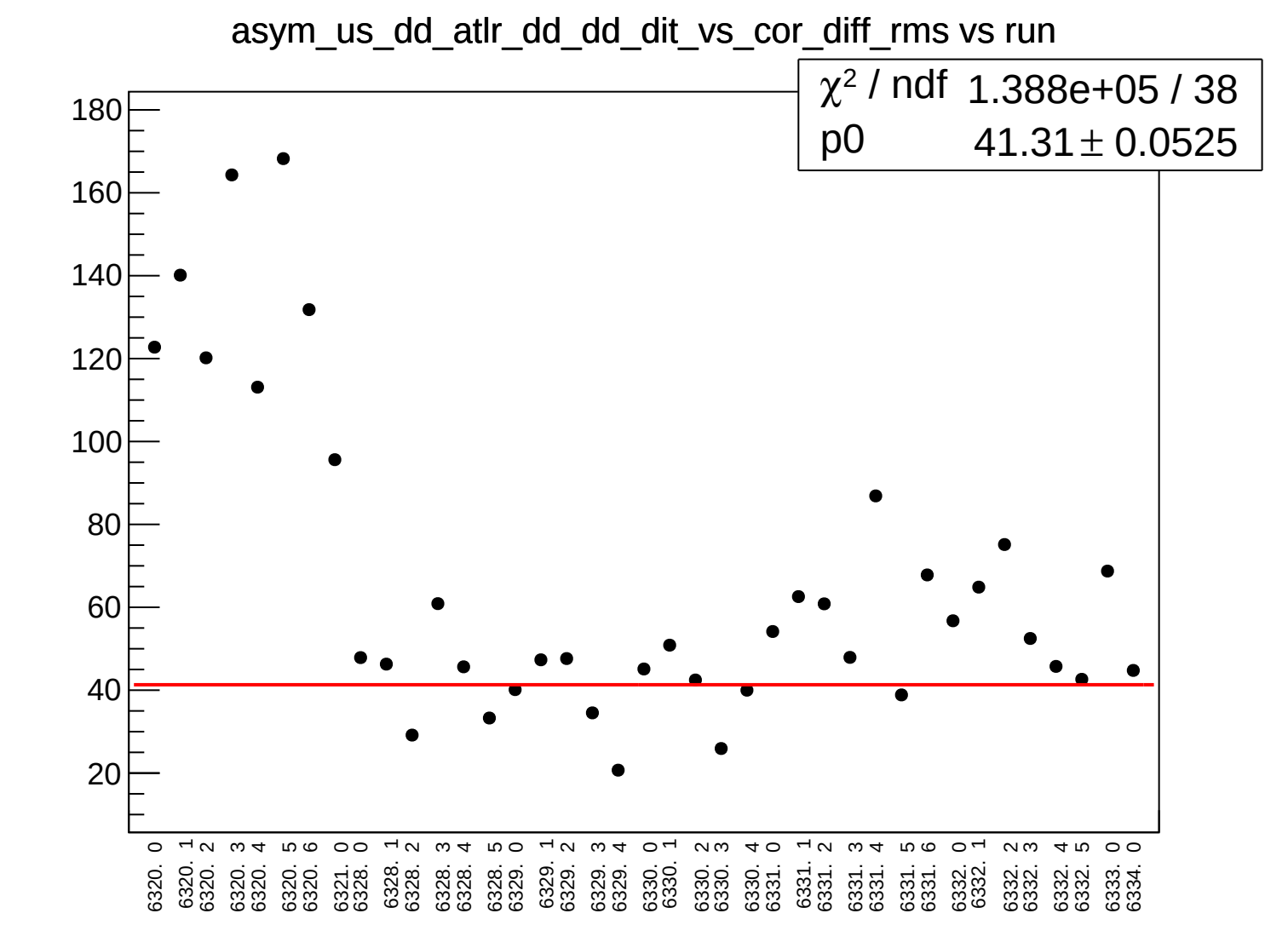

pull1D
Entries 39
Mean −0.007109
Std Dev 0.7628
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

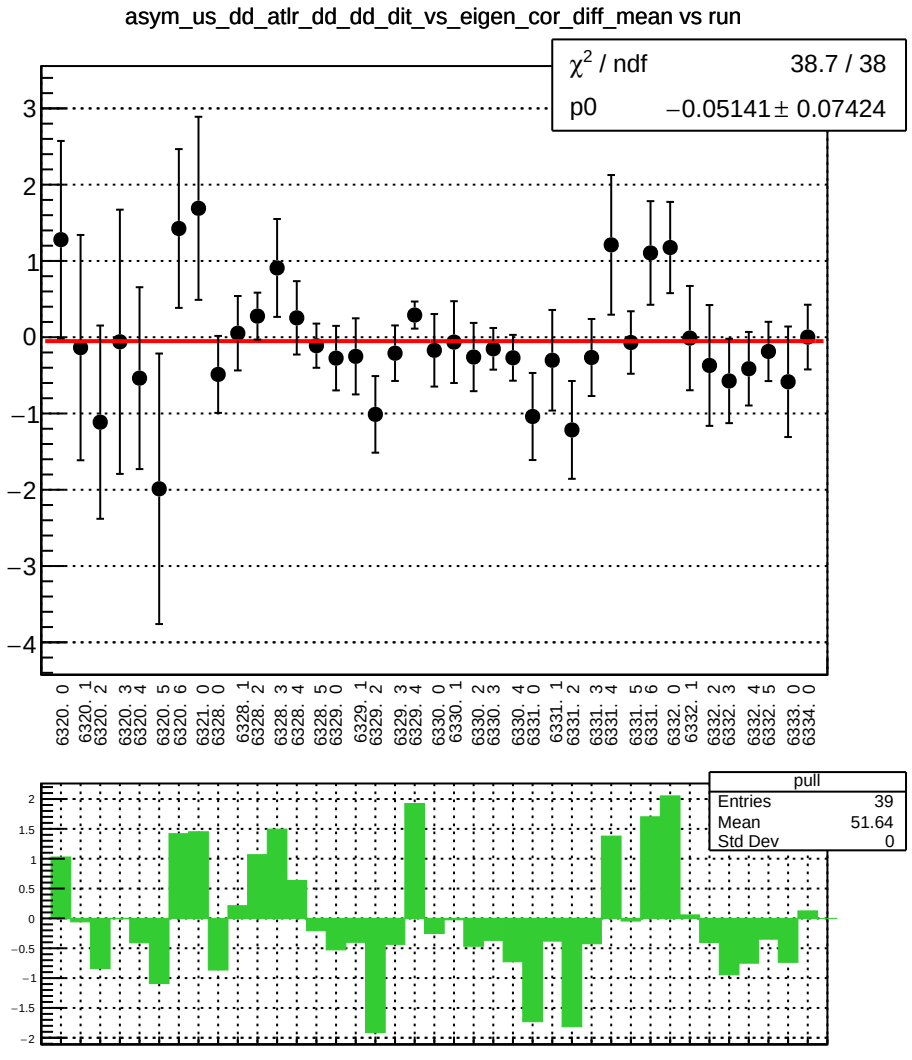

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 6864 / 38
p0 1662 ± 1.917
1900
1800
1700
1600
1500
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 53.37 / 38
p0 1.183e−14 ± 5.862e−14
0.015
0.01
0.005
0
−0.005
−0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.3
Std Dev 15.5
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1348
Std Dev 1.162
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 5.592e+05 / 38
p0 1.849e−11 ± 4.145e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.7 / 38
p0 −0.05141 ± 0.07424
pull
Entries 39
Mean 51.64
Std Dev 0
pull1D
Entries 39
Mean −0.04118
Std Dev 0.9953


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.388e+05 / 38
p0 41.31 ± 0.0525
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.7 / 38
p0 −0.05141 ± 0.07424
pull
Entries 39
Mean 51.64
Std Dev 0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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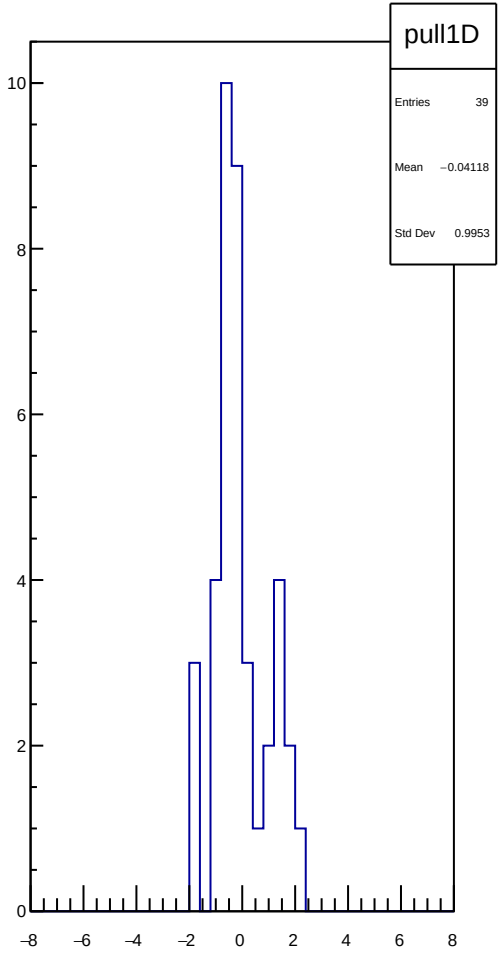
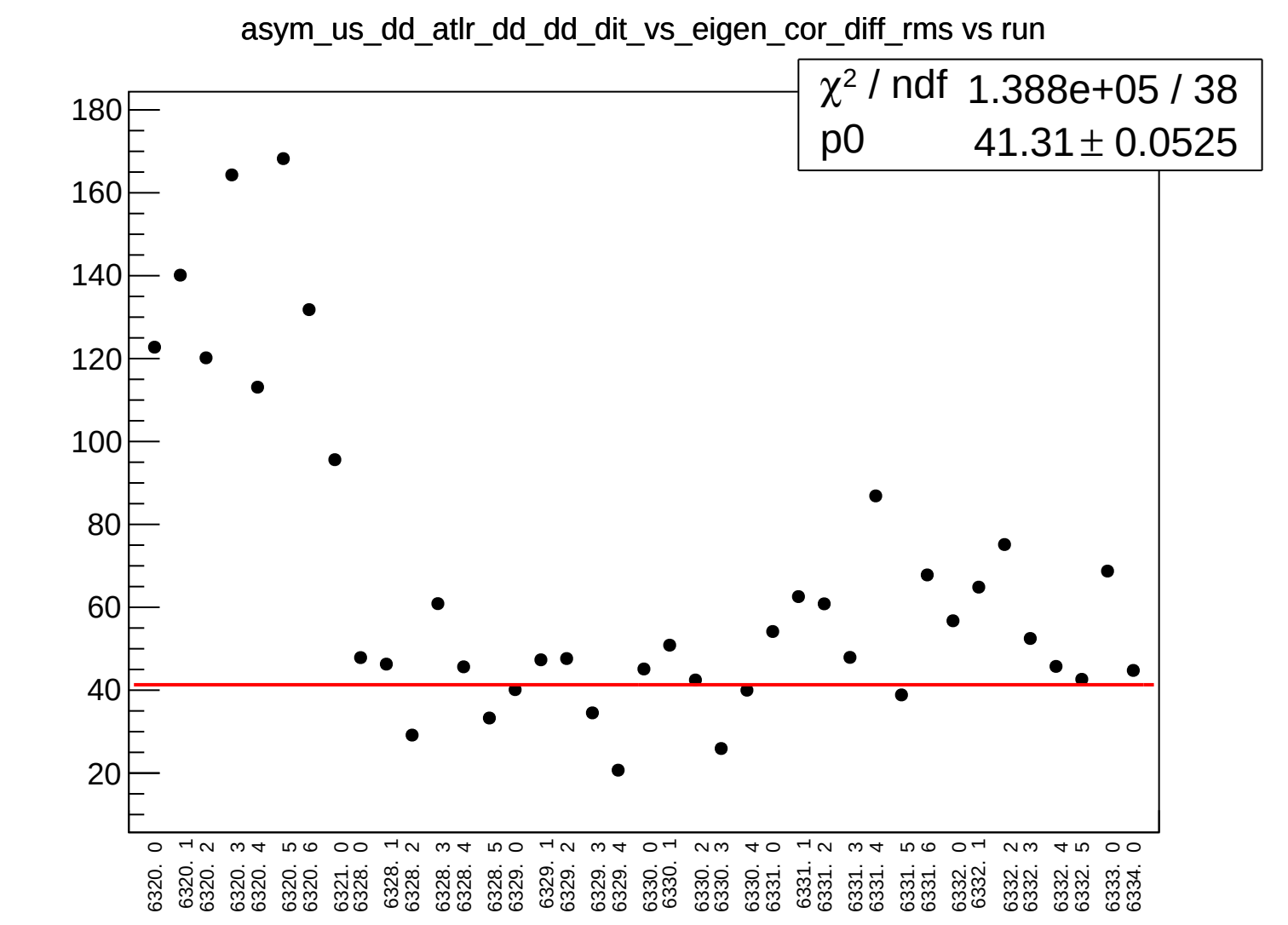
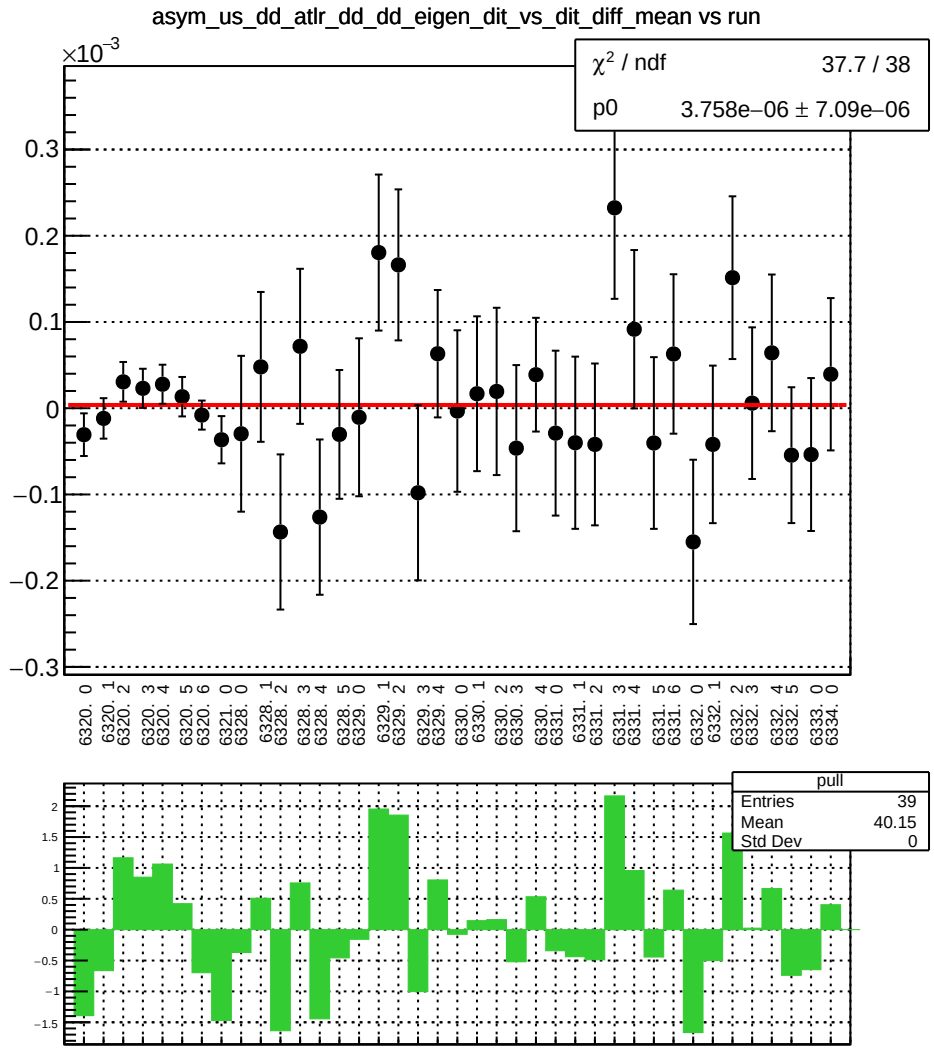
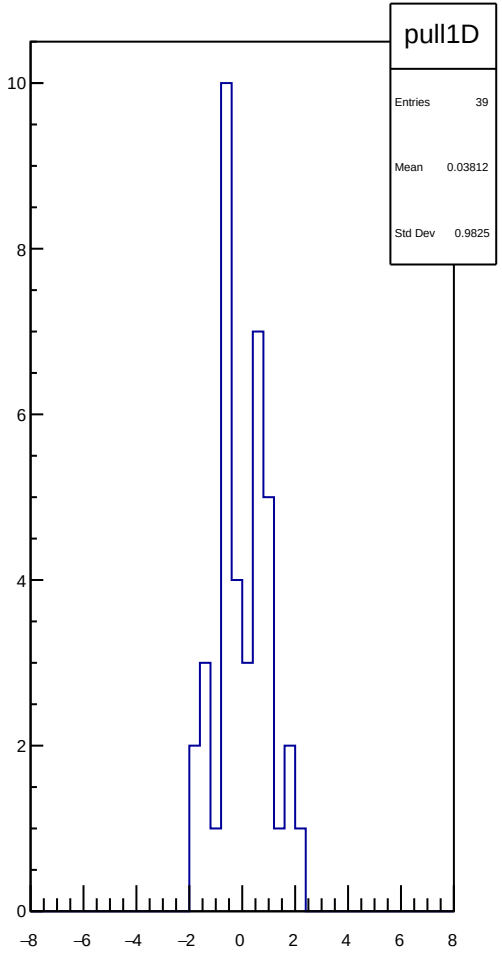
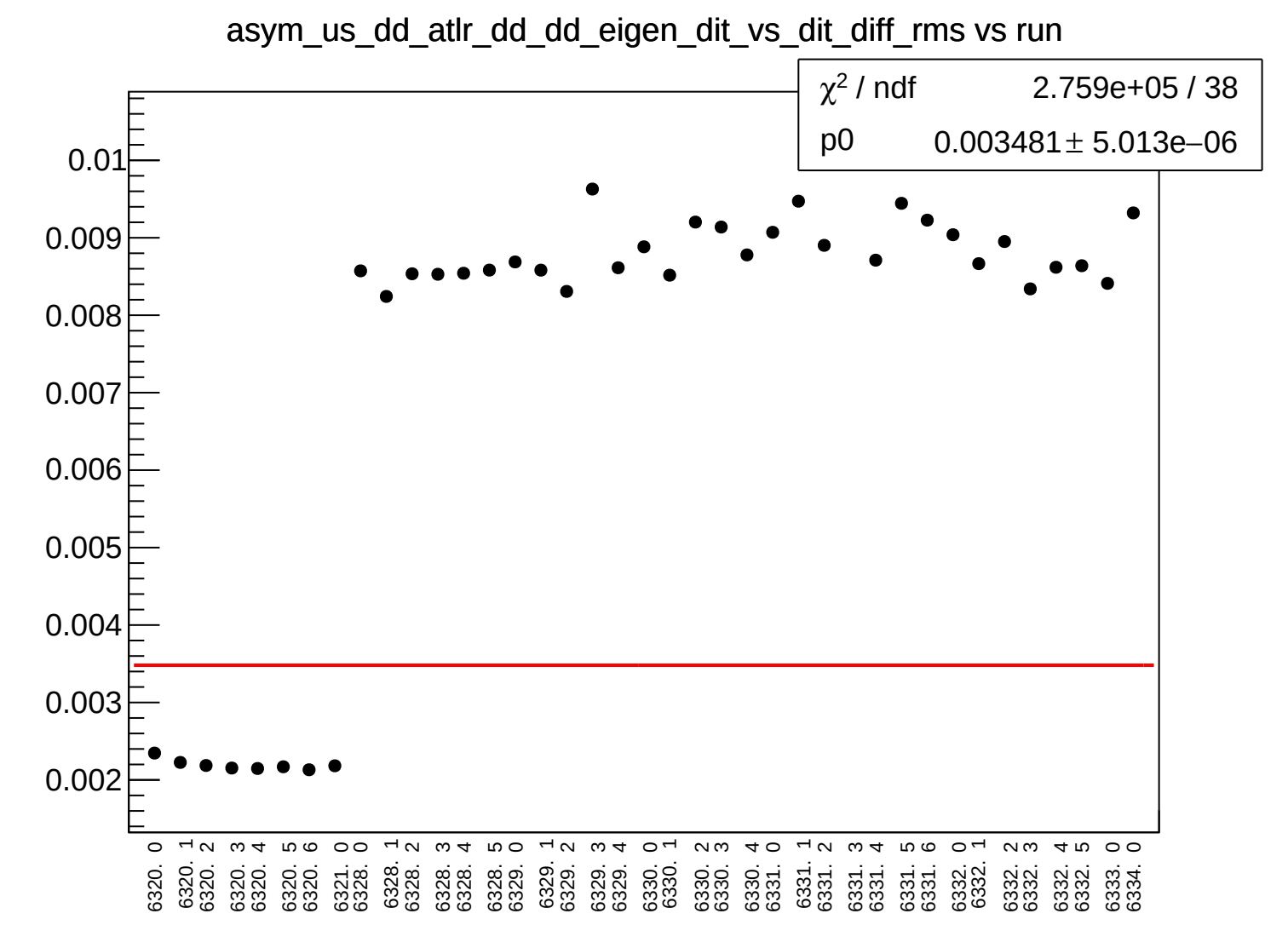
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


pull1D
Entries 39
Mean −0.04118
Std Dev 0.9953

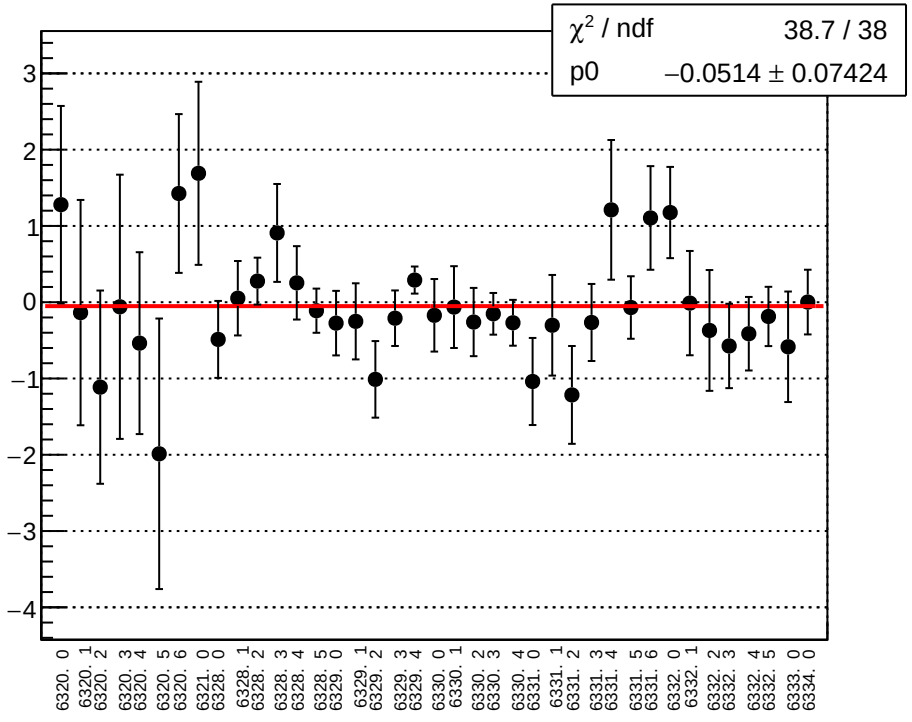

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.388e+05 / 38
p0 41.31 ± 0.0525
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

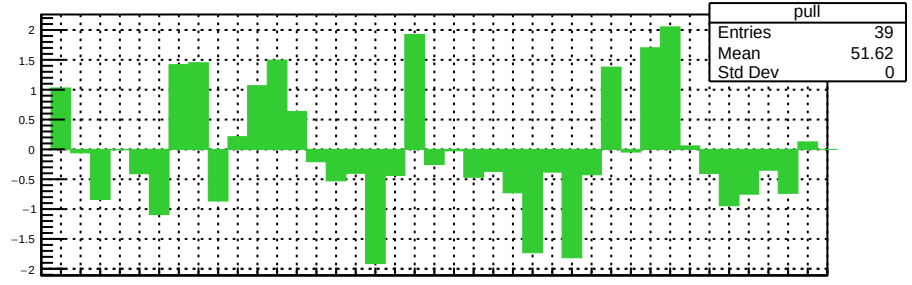

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.7 / 38
p0 3.758e−06 ± 7.09e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

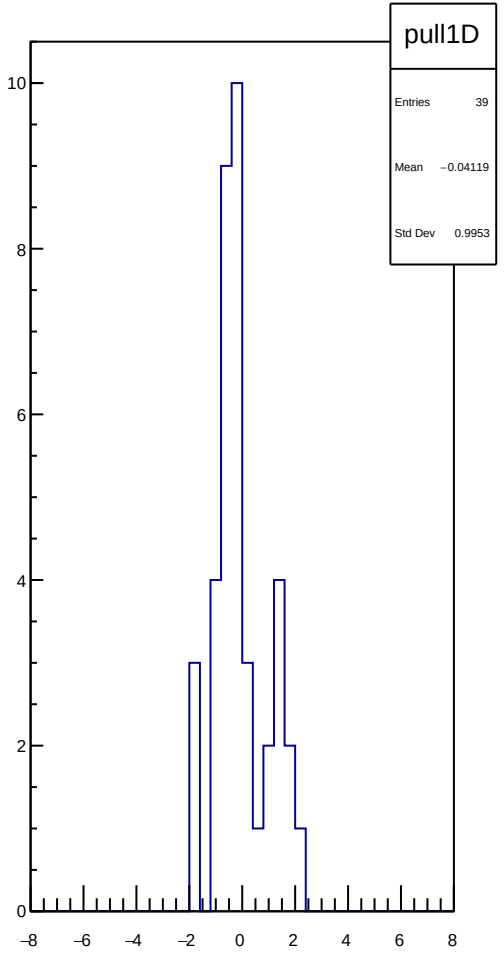

pull1D
Entries 39
Mean 0.03812
Std Dev 0.9825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

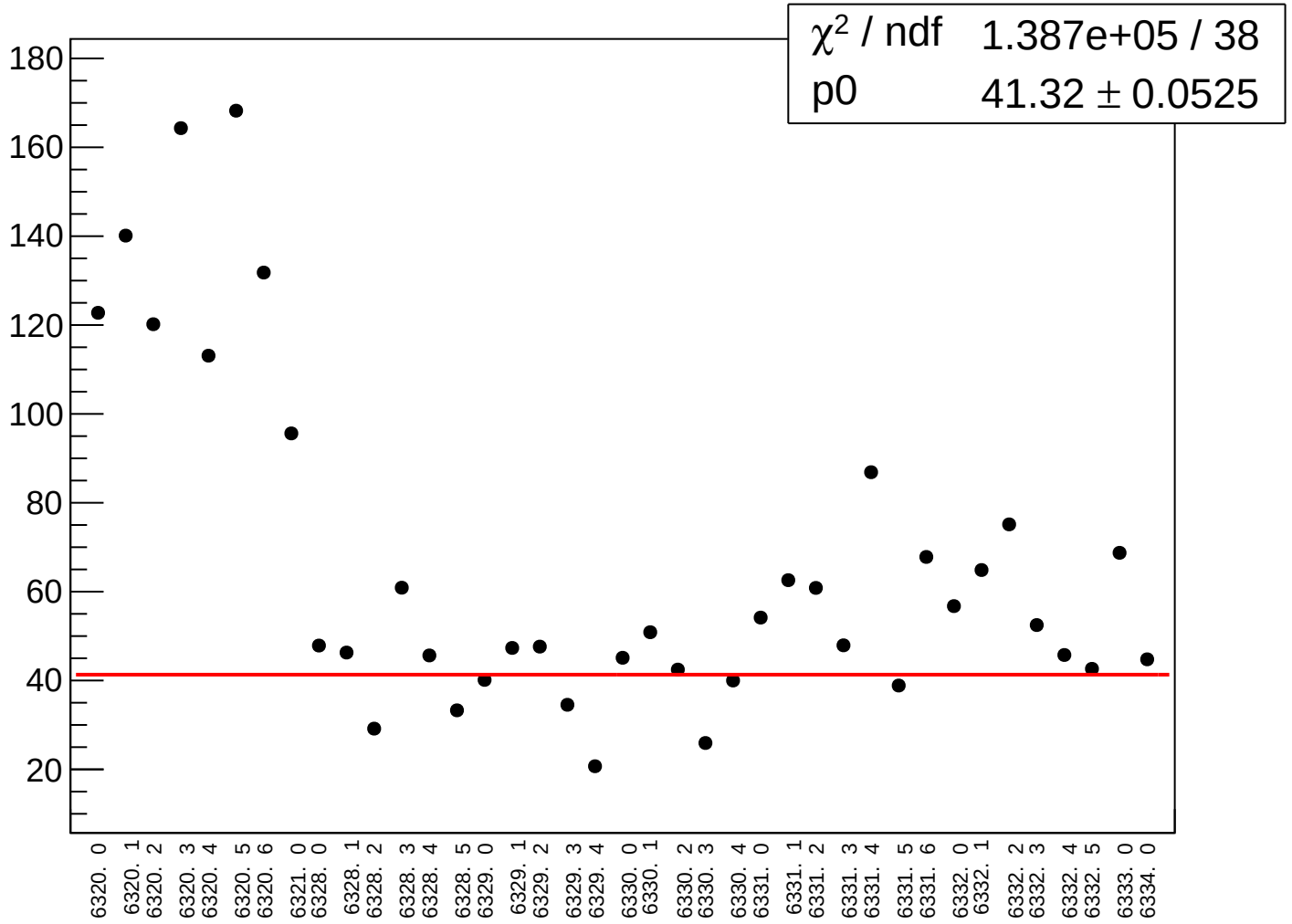

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.759e+05 / 38
p0 0.003481 ± 5.013e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

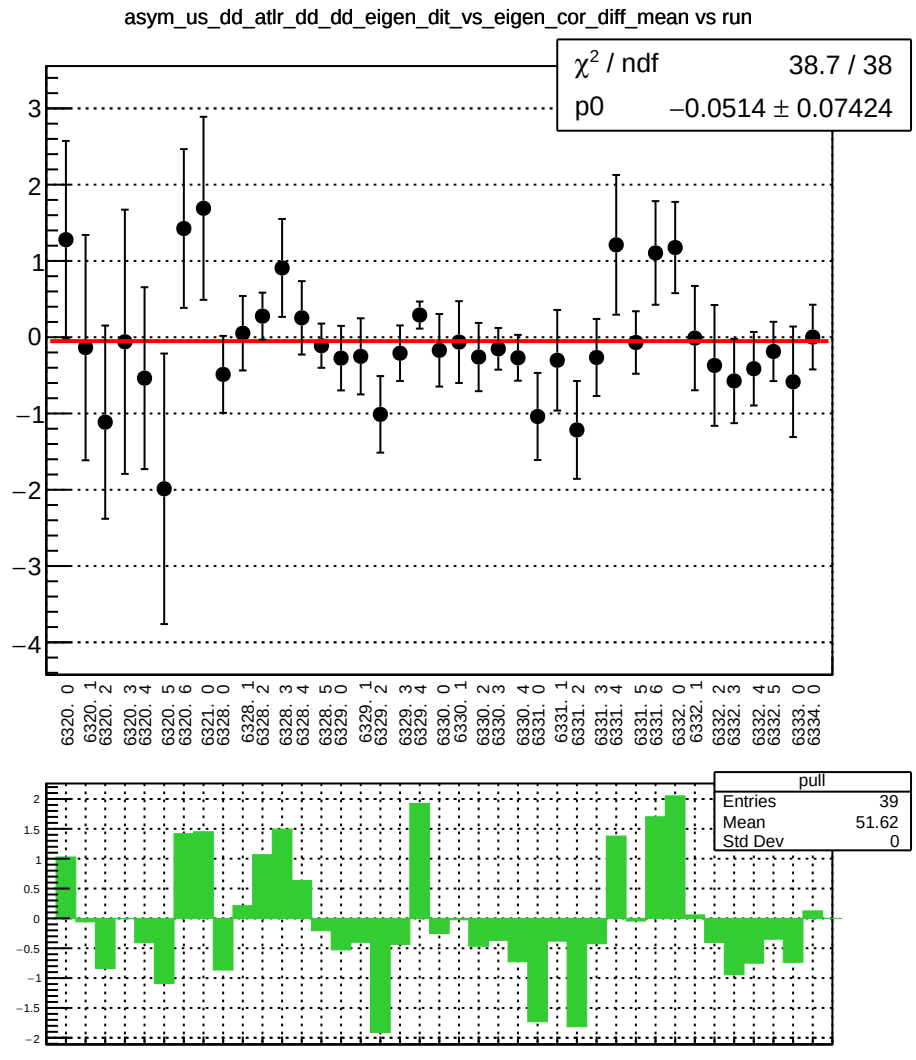
asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run

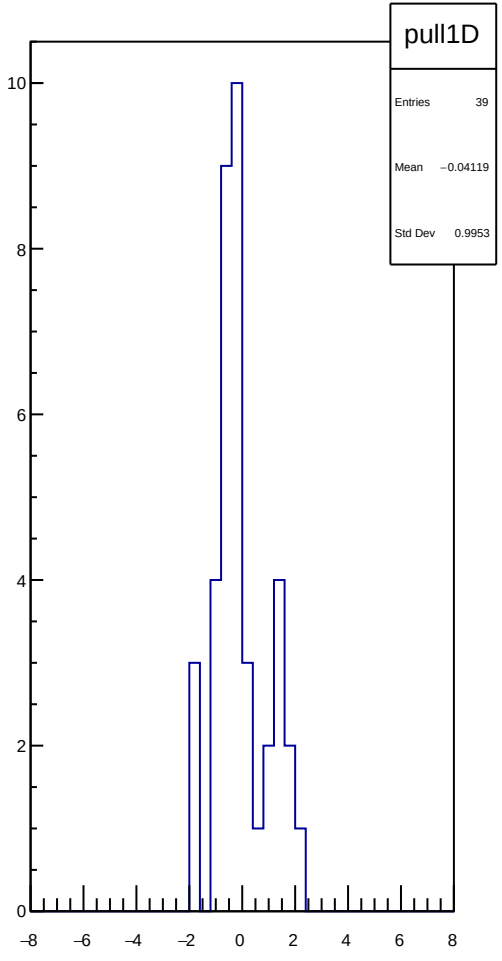


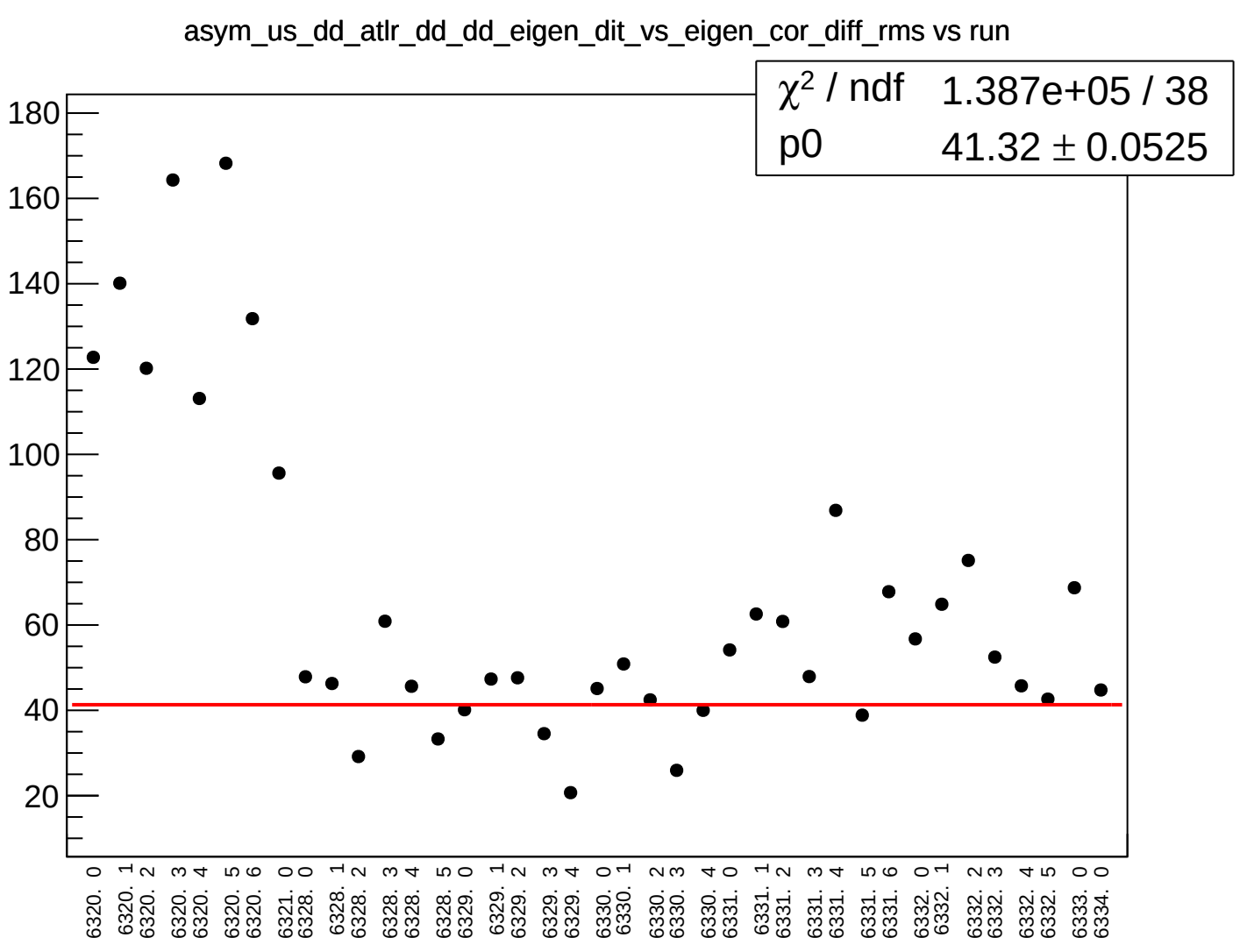


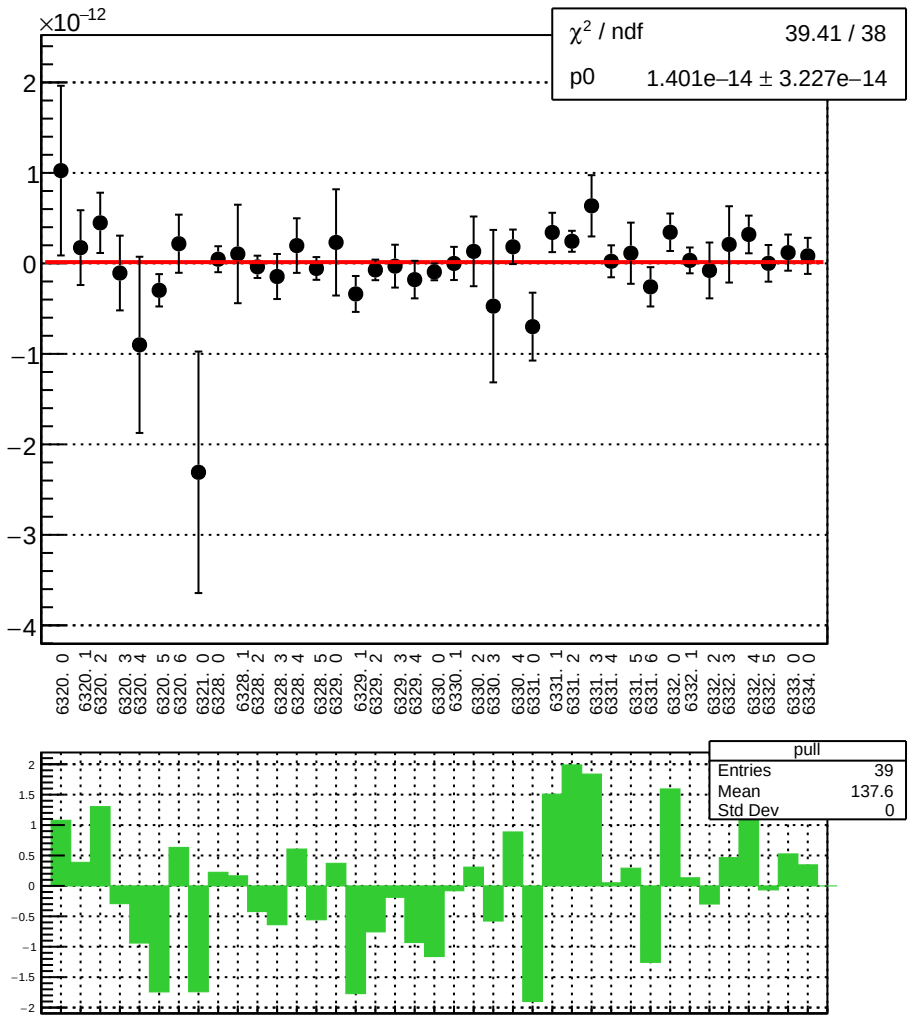


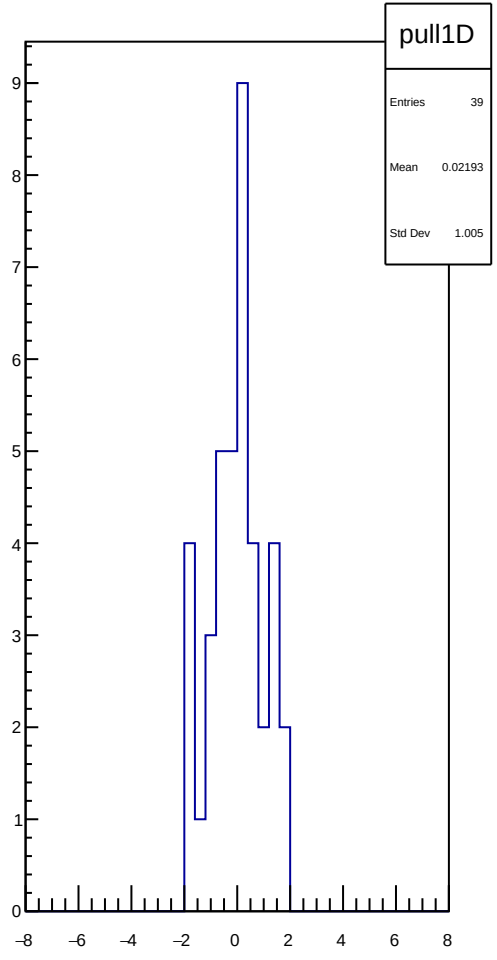

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 38
p0 41.32 ± 0.0525
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

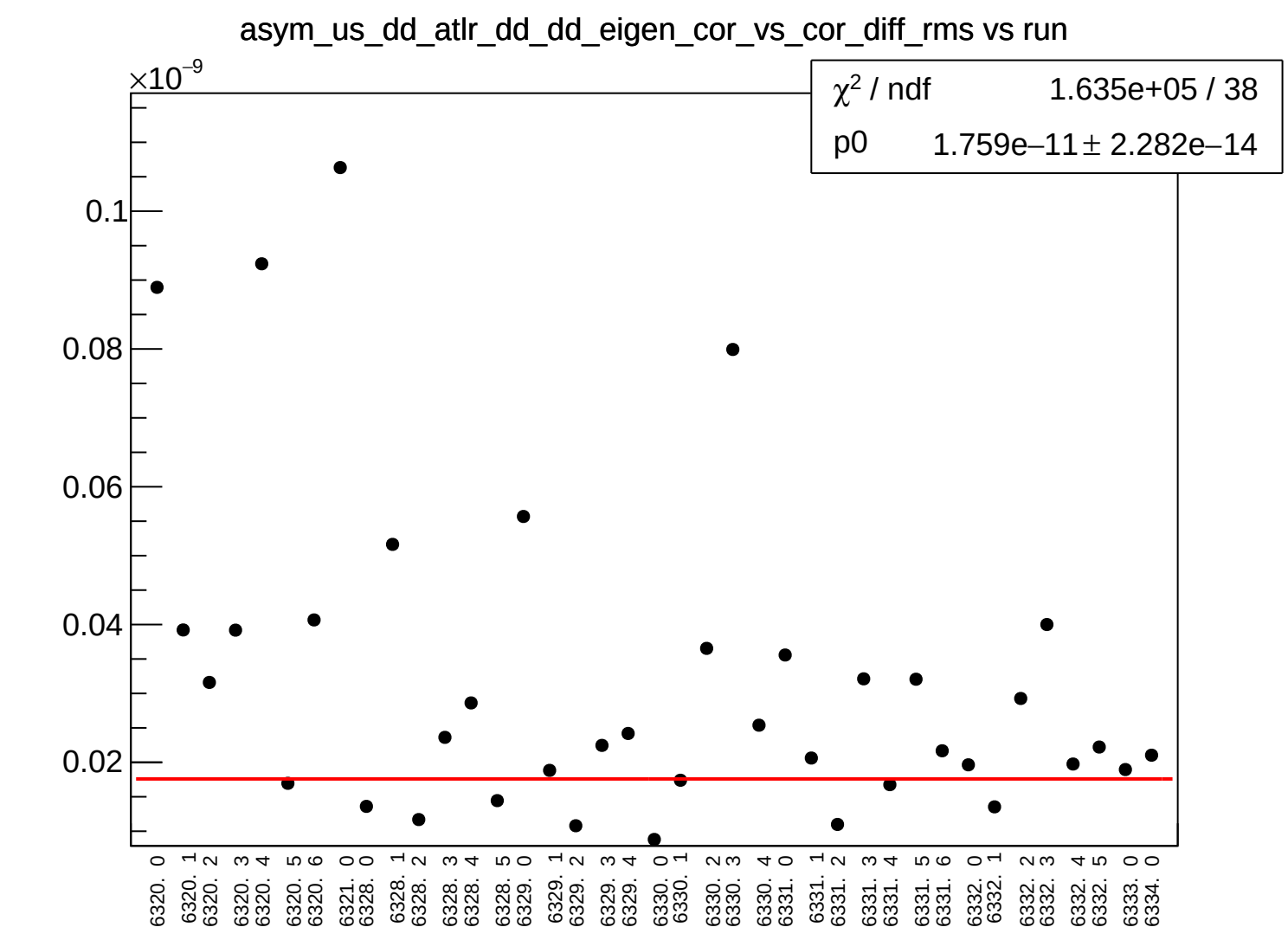

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.7 / 38
p0 −0.0514 ± 0.07424
pull
Entries 39
Mean 51.62
Std Dev 0

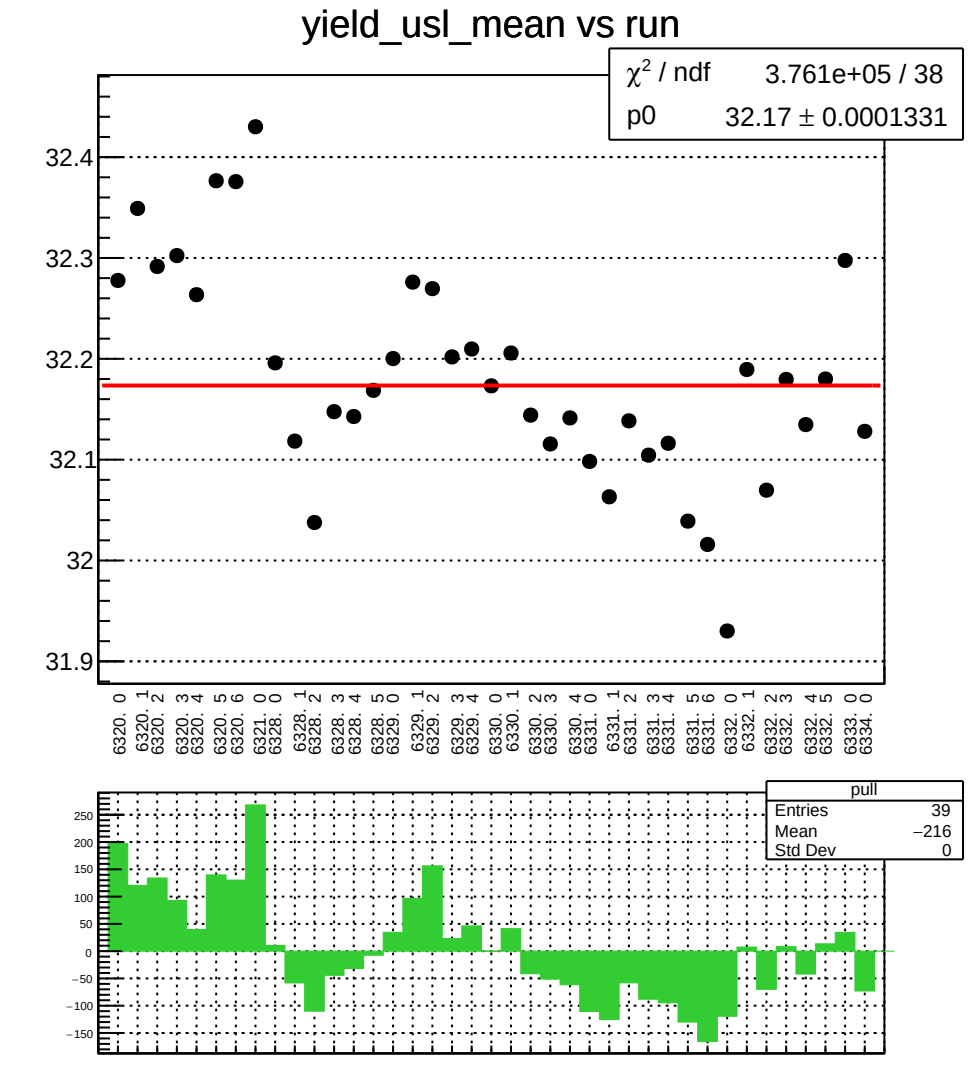

pull1D
Entries 39
Mean −0.04119
Std Dev 0.9953

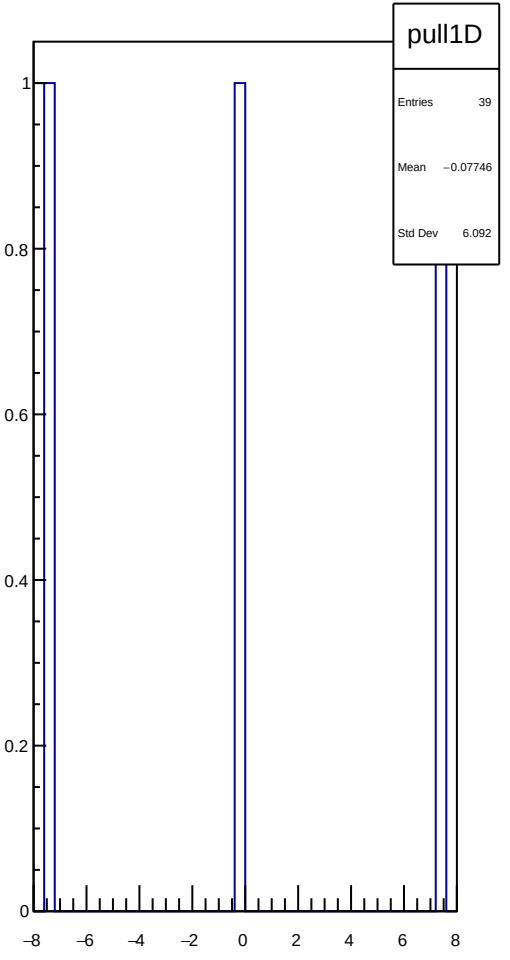

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 38
p0 41.32 ± 0.0525
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

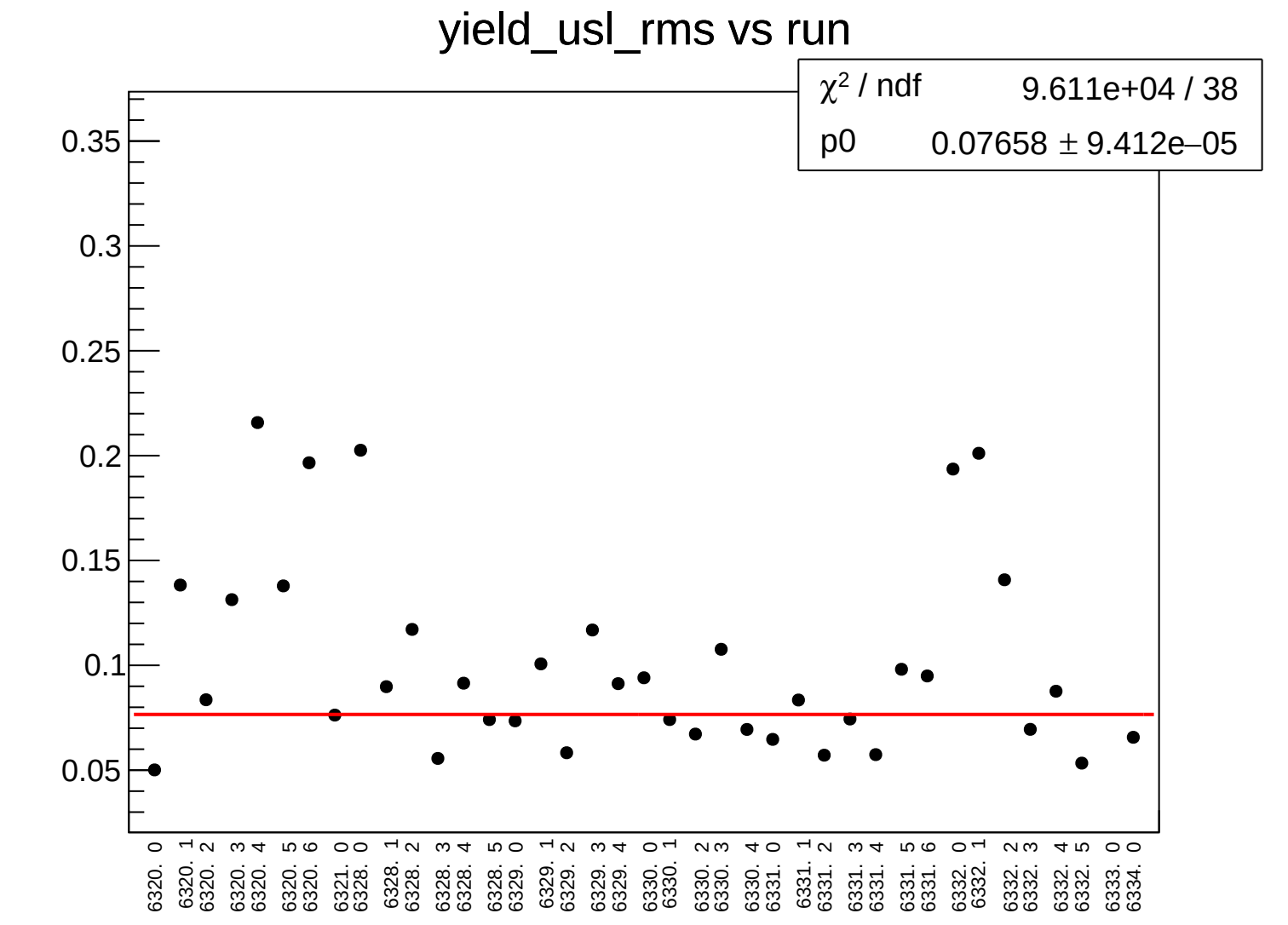

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 39.41 / 38
p0 1.401e−14 ± 3.227e−14
pull
Entries 39
Mean 137.6
Std Dev 0

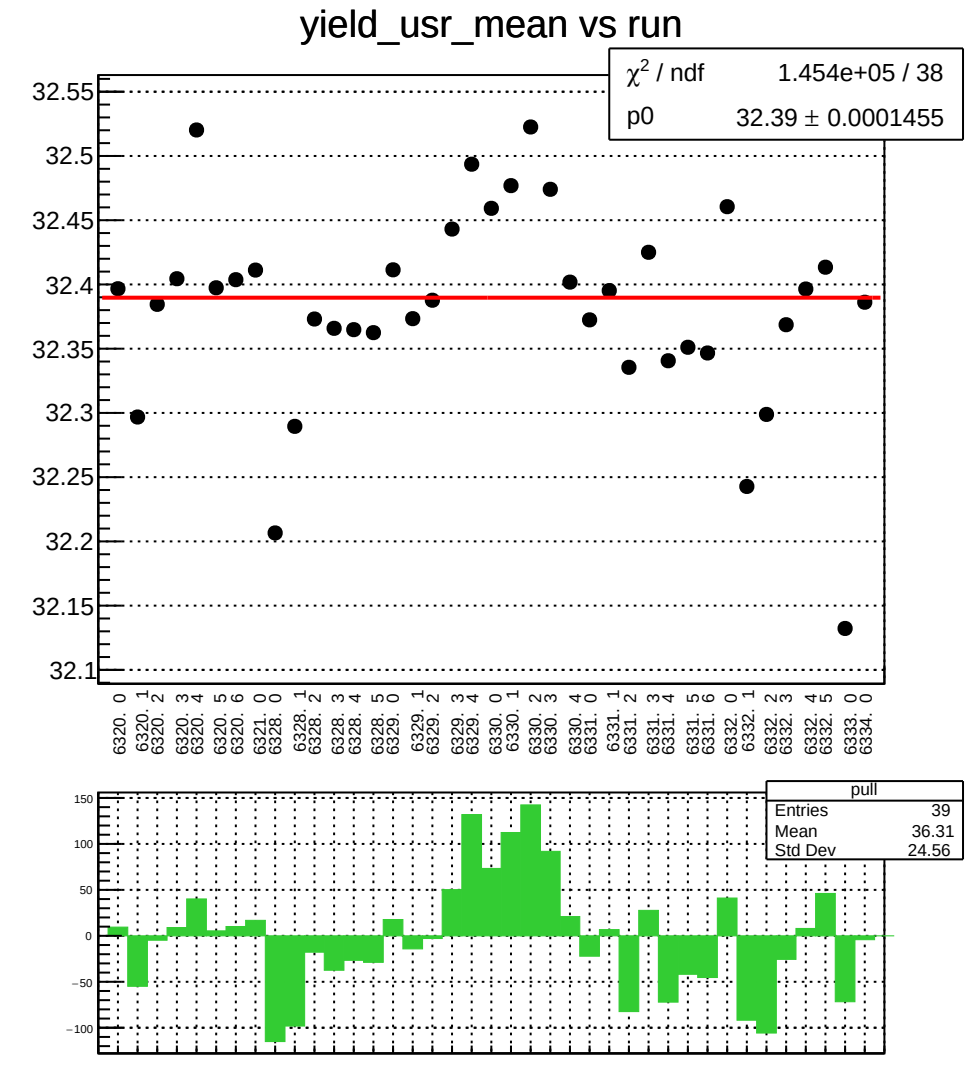

pull1D
Entries 39
Mean 0.02193
Std Dev 1.005

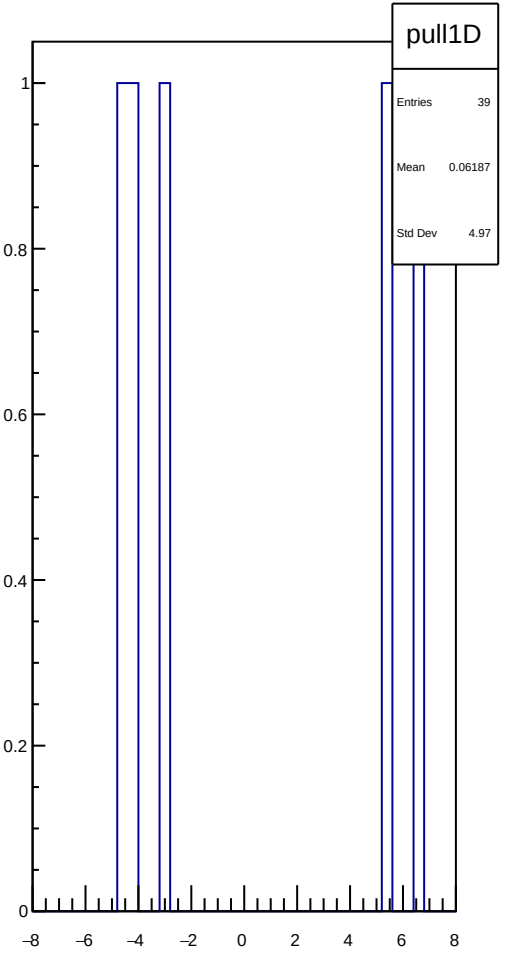

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.635e+05 / 38
p0 1.759e−11 ± 2.282e−14
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

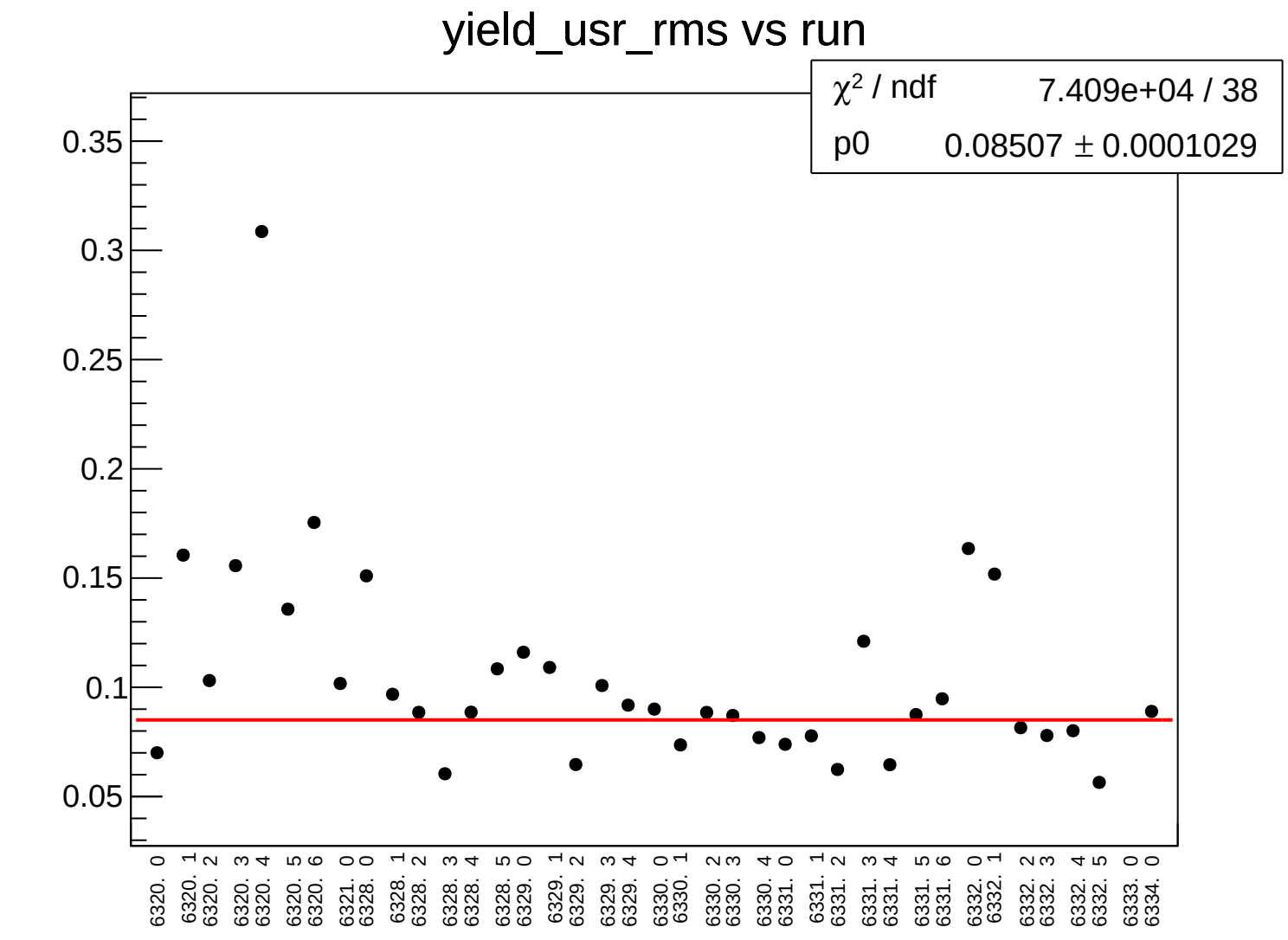

yield_usl_mean vs run
χ² / ndf 3.761e+05 / 38
p0 32.17 ± 0.0001331
32.4
32.3
32.2
32.1
32
31.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −216
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

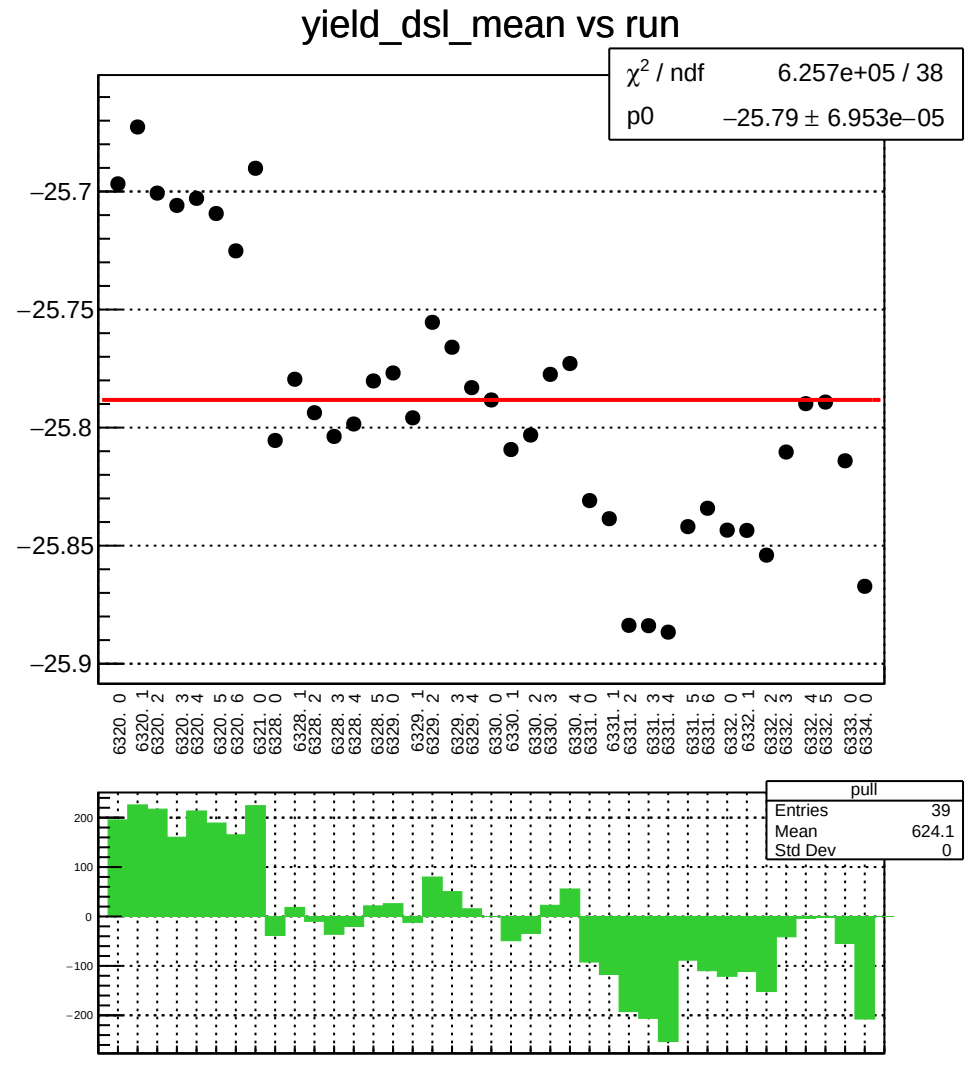

pull1D
Entries 39
Mean −0.07746
Std Dev 6.092
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

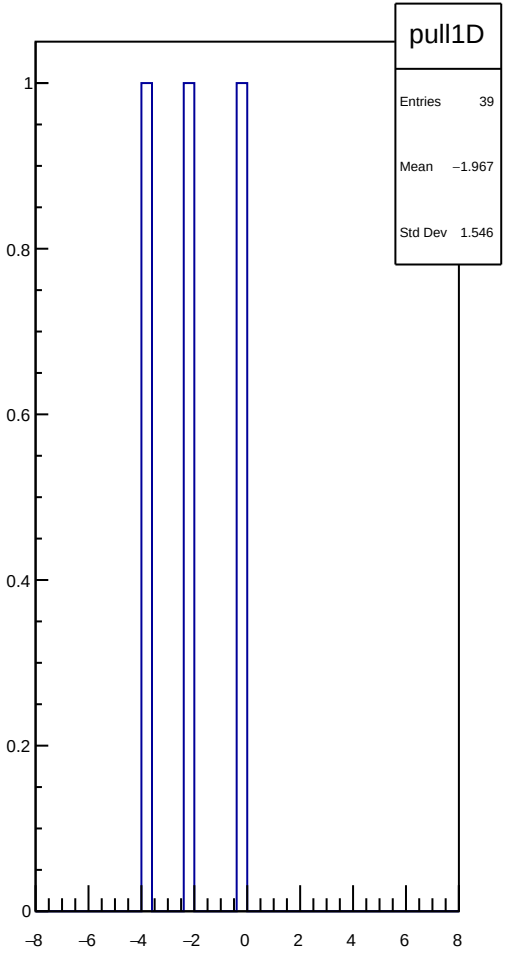

yield_usl_rms vs run
χ² / ndf 9.611e+04 / 38
p0 0.07658 ± 9.412e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

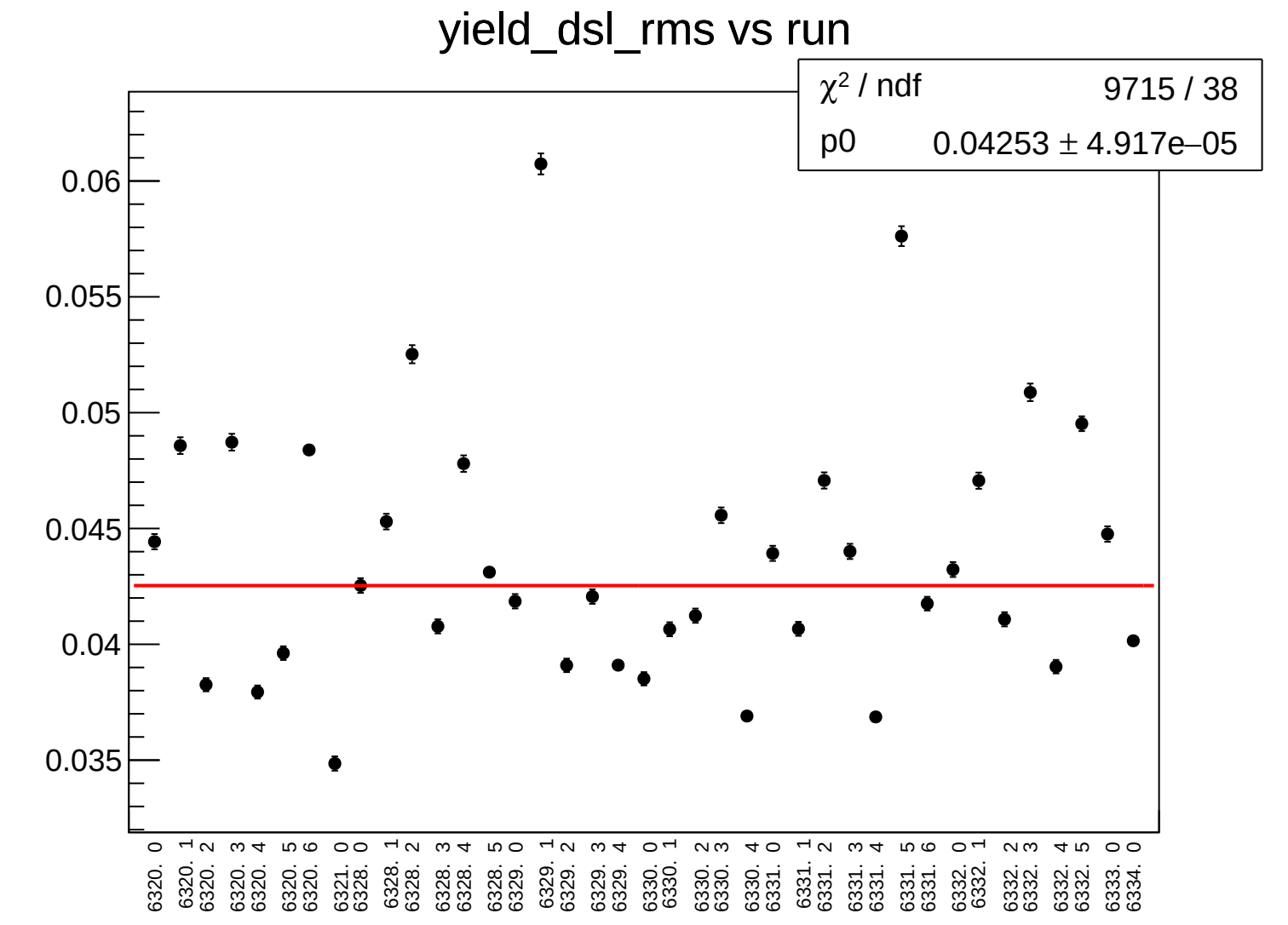

yield_usr_mean vs run
χ² / ndf 1.454e+05 / 38
p0 32.39 ± 0.0001455
32.55
32.5
32.45
32.4
32.35
32.3
32.25
32.2
32.15
32.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 36.31
Std Dev 24.56
150
100
50
0
−50
−100

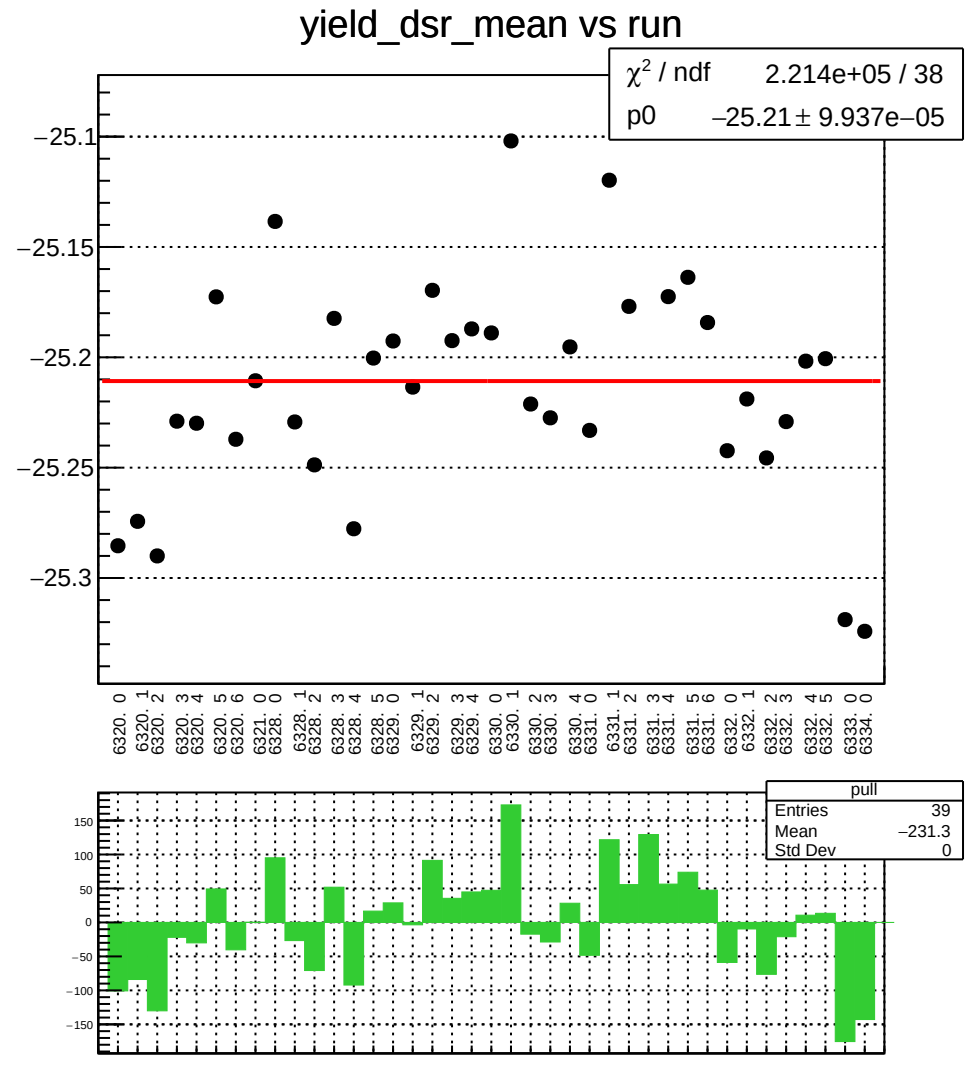

pull1D
Entries 39
Mean 0.06187
Std Dev 4.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

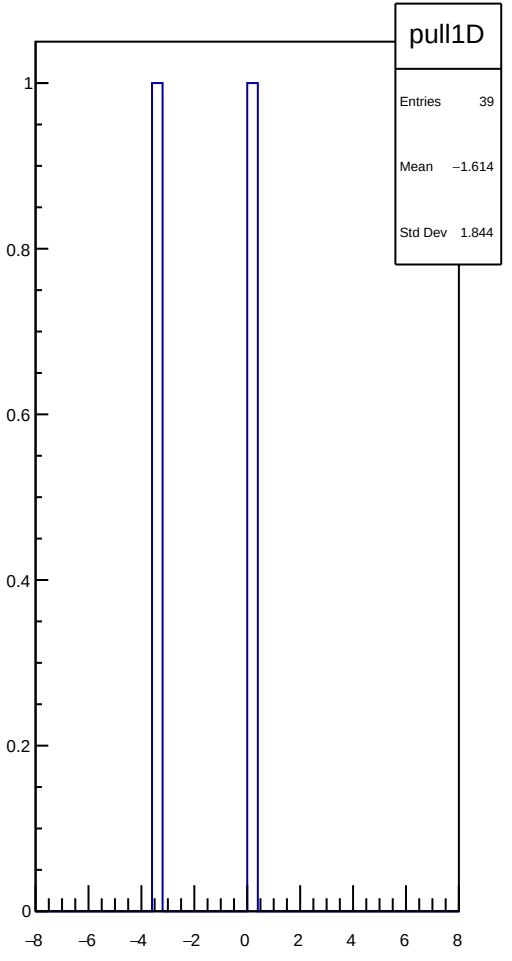

yield_usr_rms vs run
χ² / ndf 7.409e+04 / 38
p0 0.08507 ± 0.0001029
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

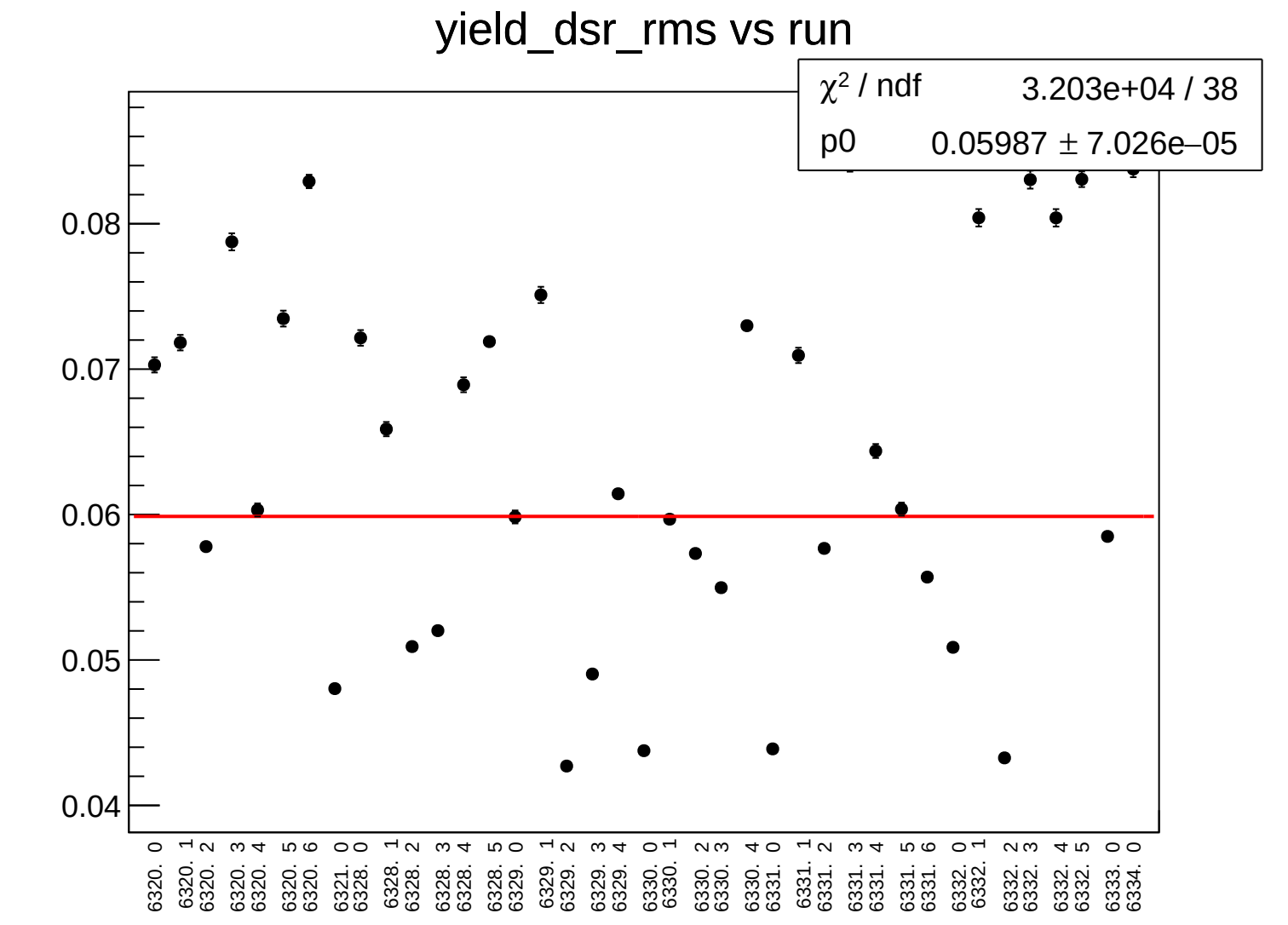

yield_dsl_mean vs run
χ² / ndf 6.257e+05 / 38
p0 −25.79 ± 6.953e−05
−25.7
−25.75
−25.8
−25.85
−25.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 624.1
Std Dev 0
200
100
0
−100
−200

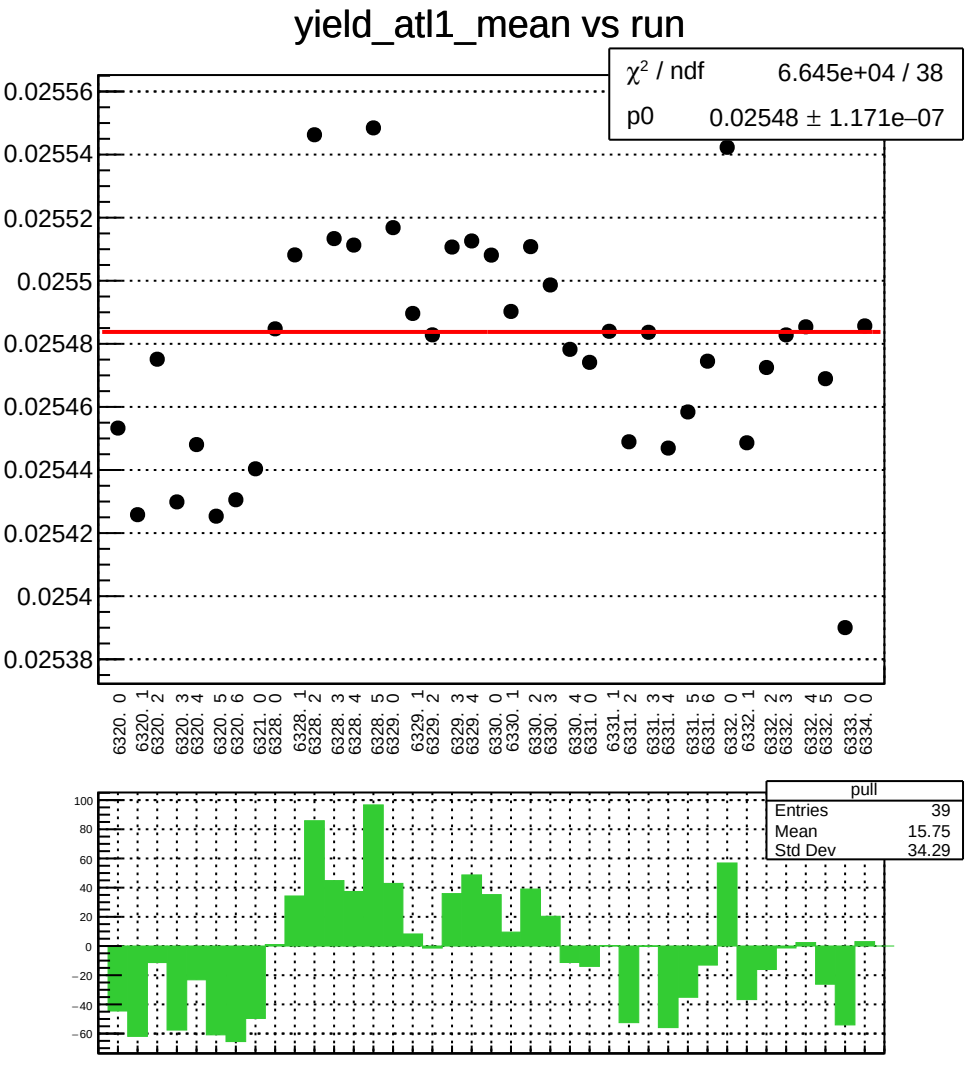

pull1D
Entries 39
Mean −1.967
Std Dev 1.546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

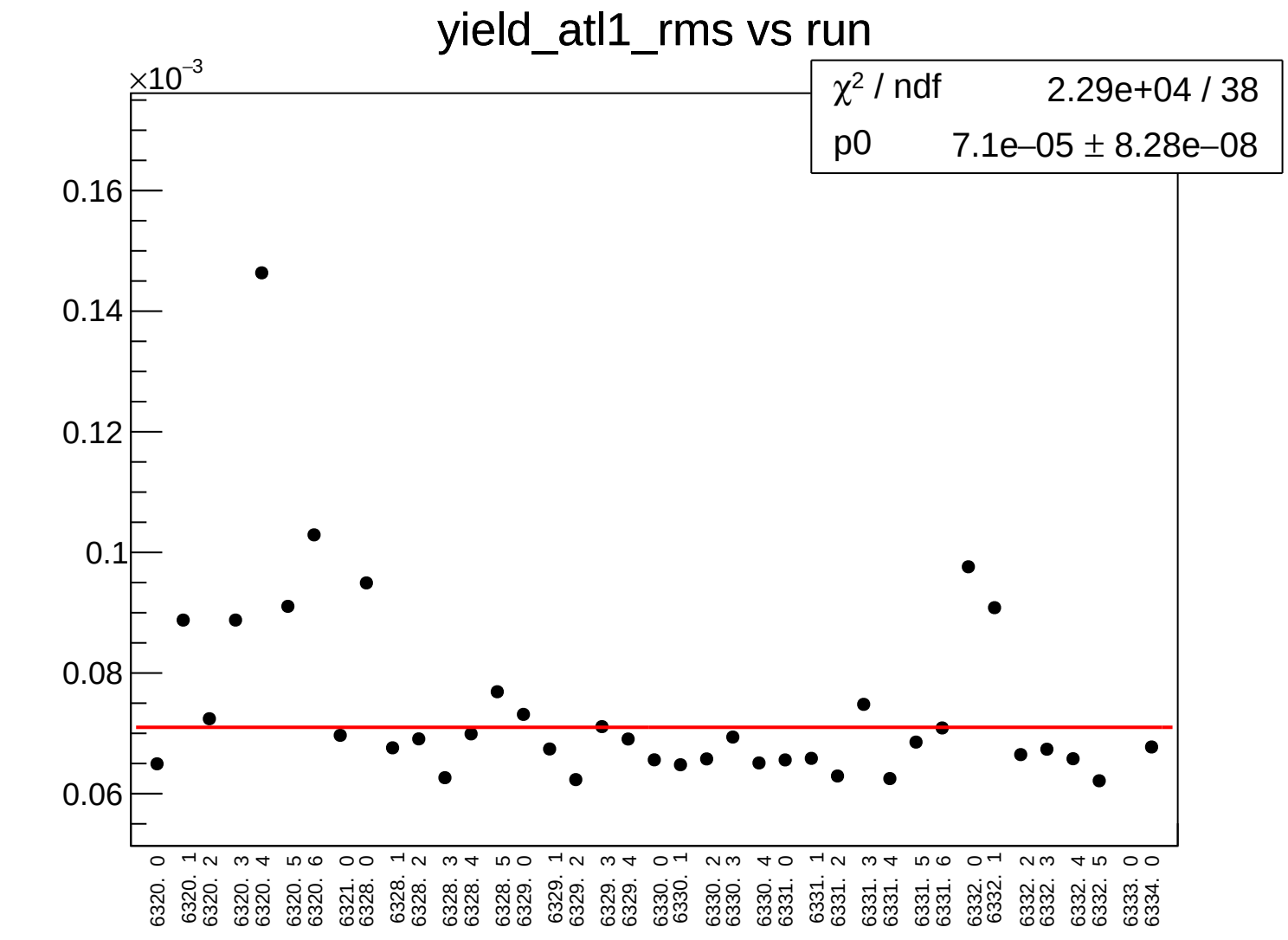

yield_dsl_rms vs run
χ² / ndf 9715 / 38
p0 0.04253 ± 4.917e–05
0.06
0.055
0.05
0.045
0.04
0.035
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

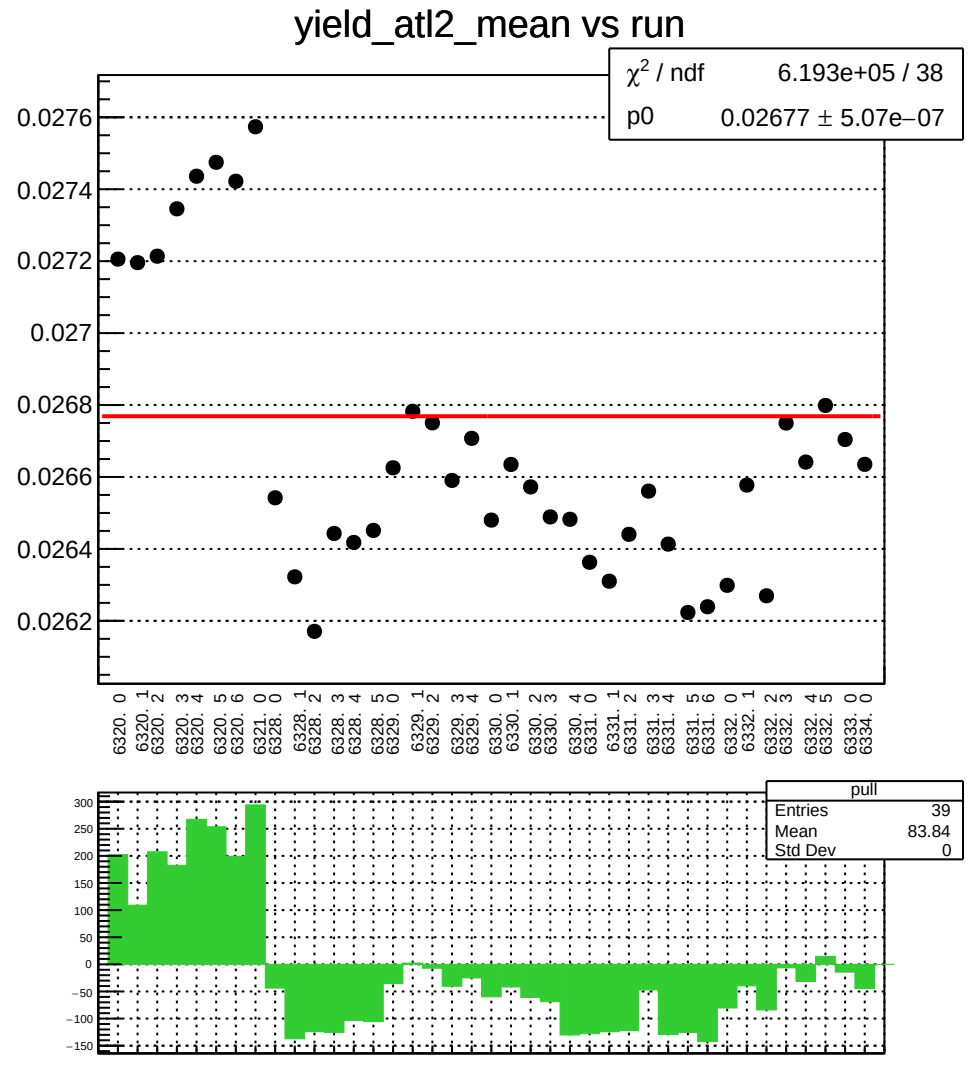

yield_dsr_mean vs run
χ² / ndf 2.214e+05 / 38
p0 −25.21 ± 9.937e−05
−25.1
−25.15
−25.2
−25.25
−25.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −231.3
Std Dev 0
150
100
50
0
−50
−100
−150

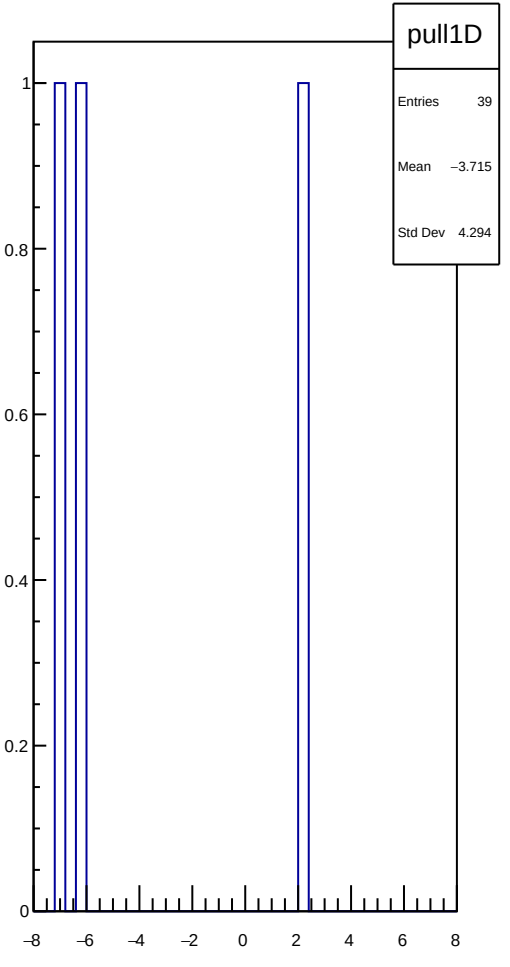

pull1D
Entries 39
Mean −1.614
Std Dev 1.844
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

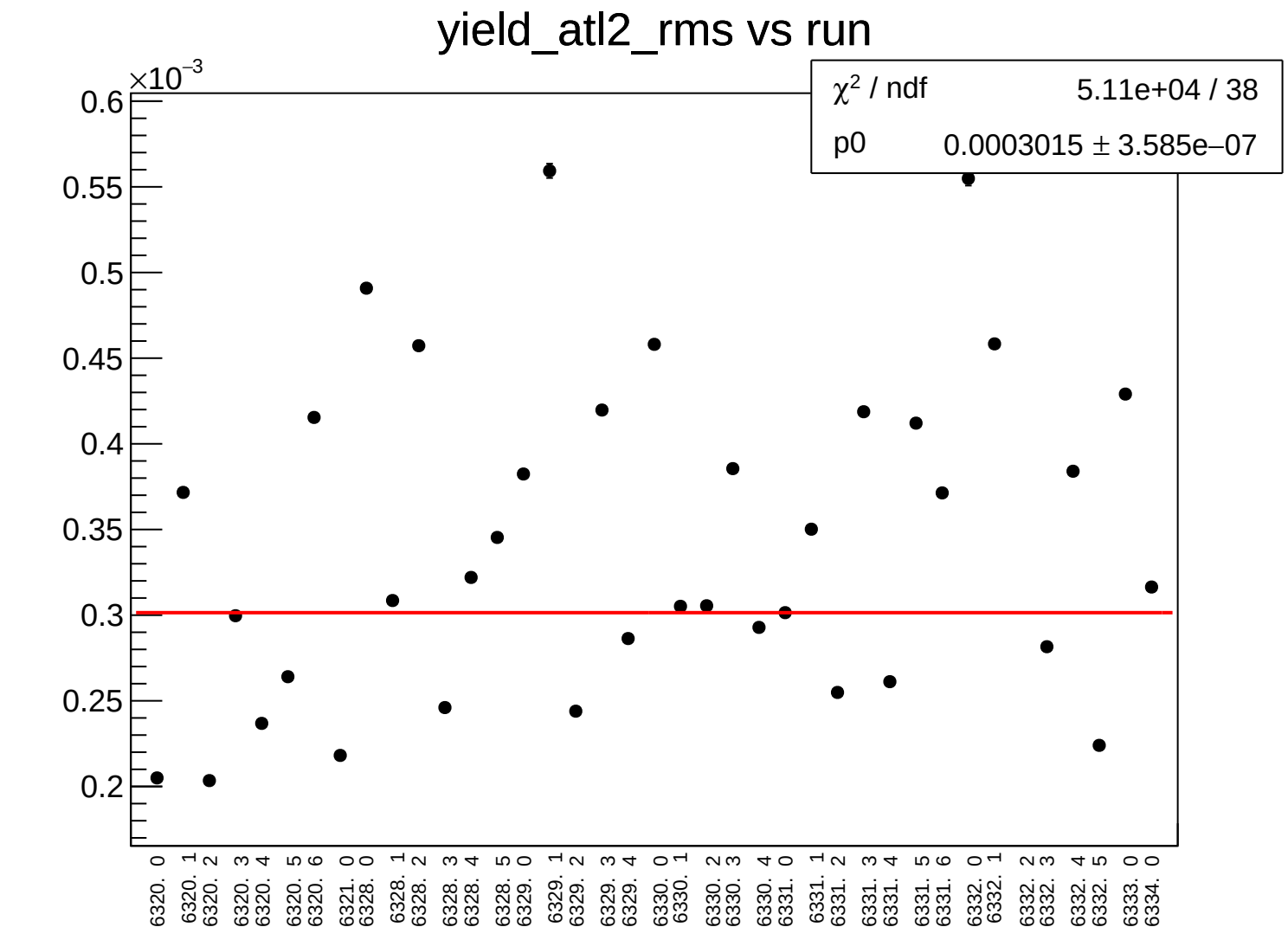

yield_dsr_rms vs run
χ² / ndf 3.203e+04 / 38
p0 0.05987 ± 7.026e−05
0.08
0.07
0.06
0.05
0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

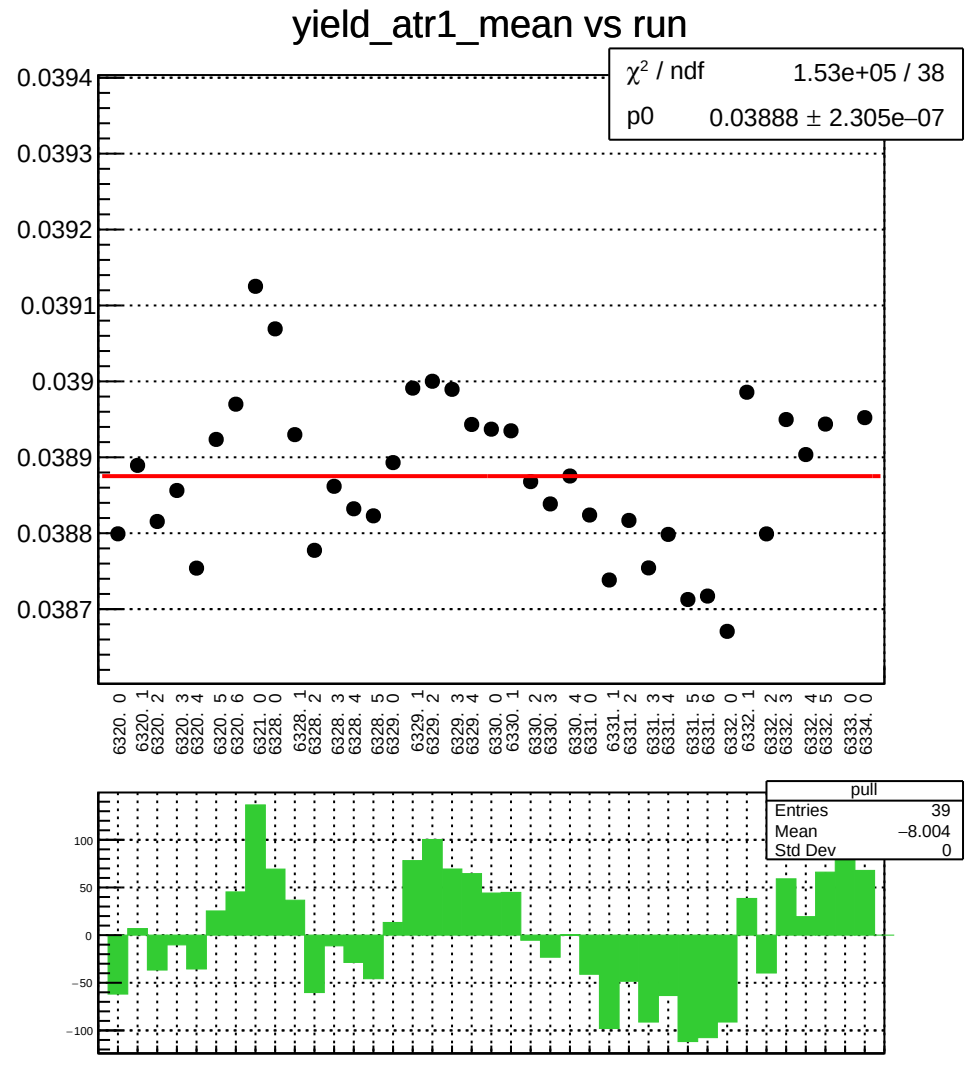

yield_atl1_mean vs run
χ² / ndf 6.645e+04 / 38
p0 0.02548 ± 1.171e−07
0.02556
0.02554
0.02552
0.0255
0.02548
0.02546
0.02544
0.02542
0.0254
0.02538
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.75
Std Dev 34.29
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 39
Mean 0.5376
Std Dev 1.568
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

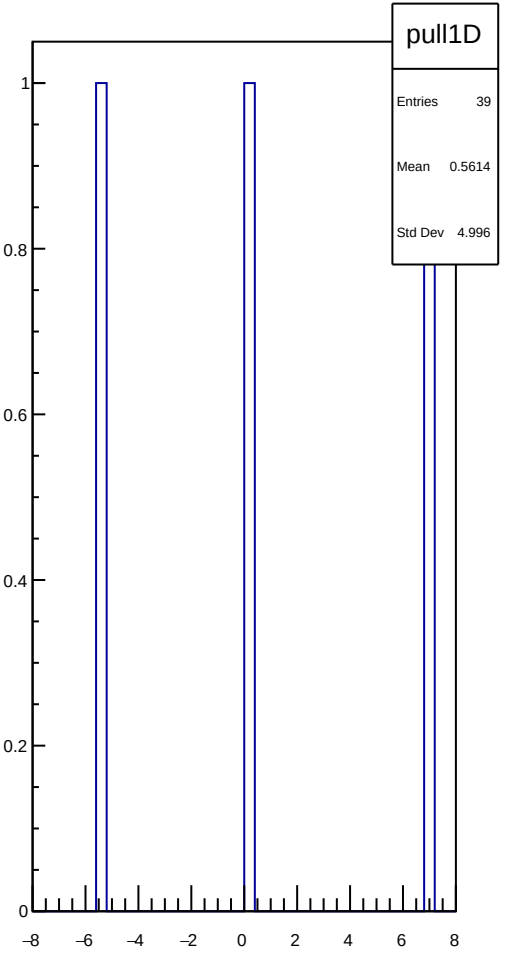

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.29e+04 / 38
p0 7.1e–05 ± 8.28e–08
0.16
0.14
0.12
0.1
0.08
0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

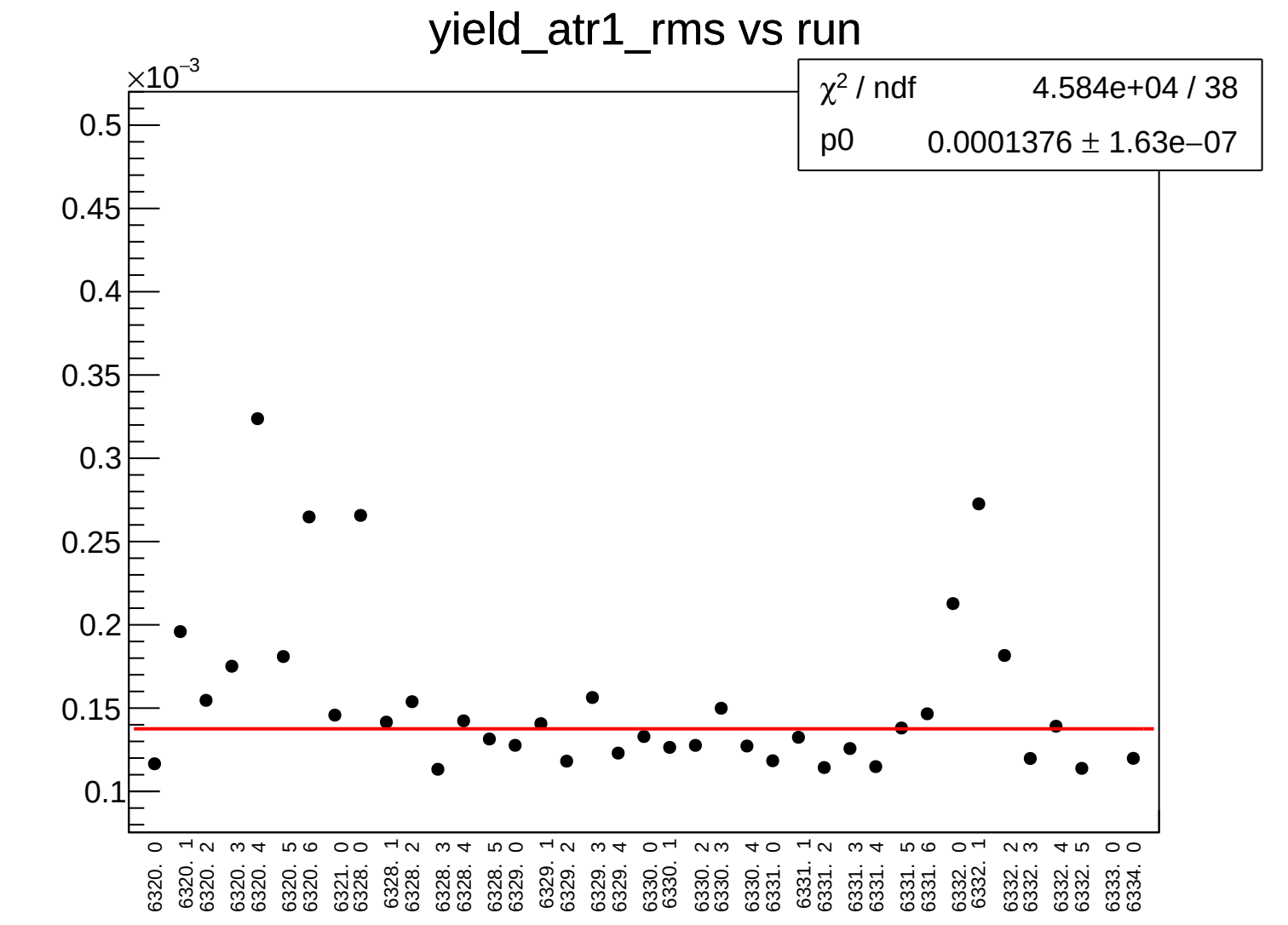

yield_atl2_mean vs run
χ² / ndf 6.193e+05 / 38
p0 0.02677 ± 5.07e−07
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 83.84
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

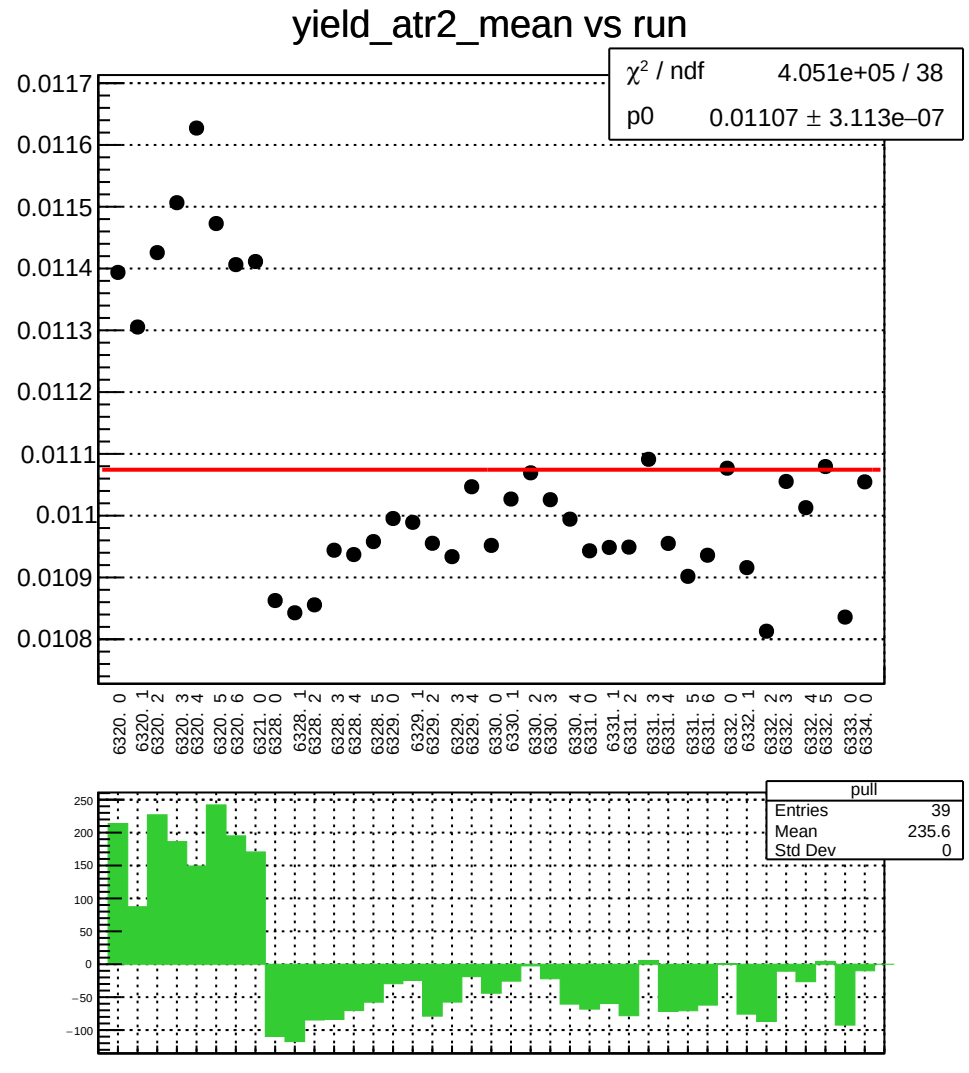

pull1D
Entries 39
Mean −3.715
Std Dev 4.294
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

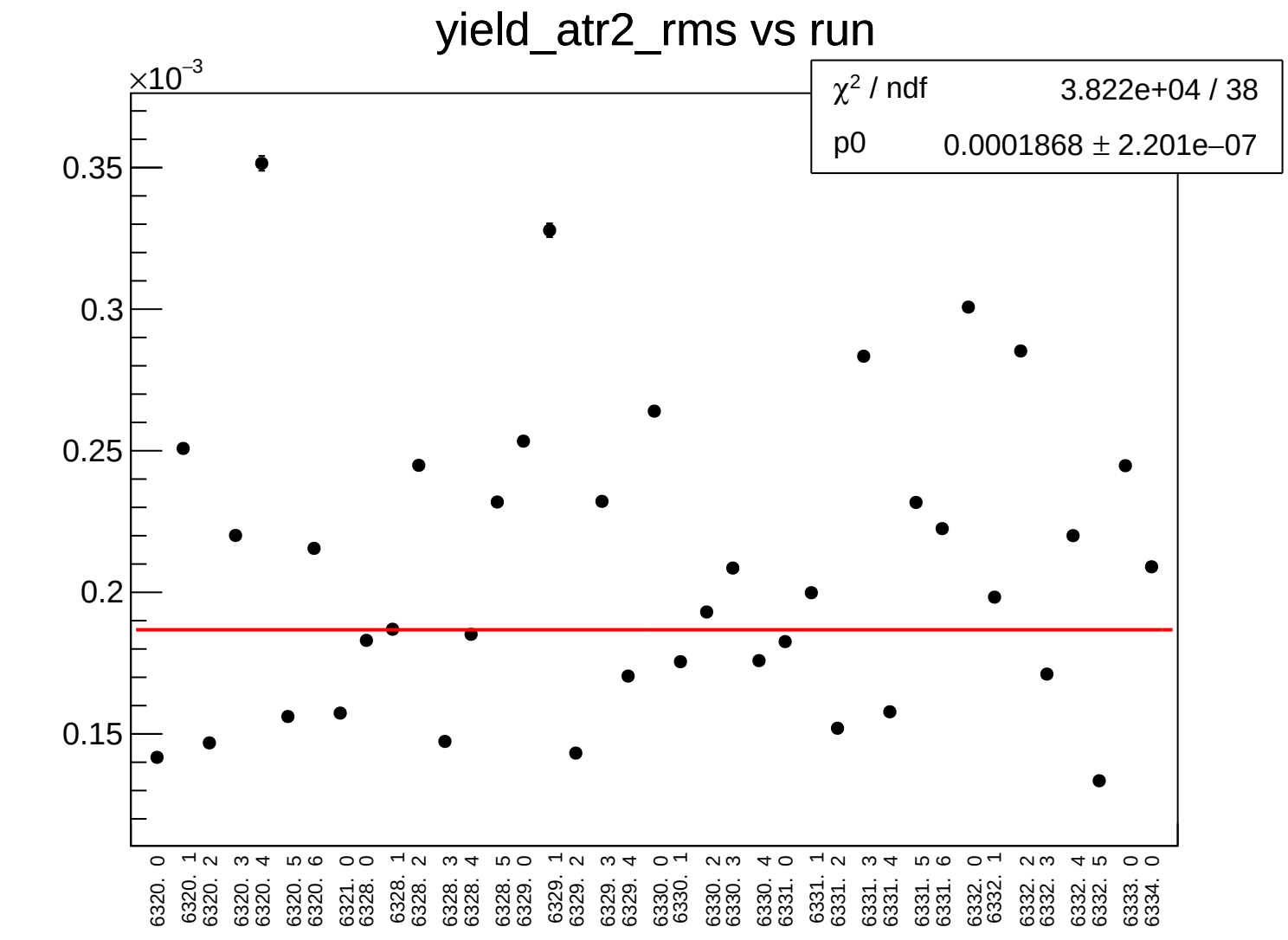

yield_atl2_rms vs run
×10⁻³
χ² / ndf 5.11e+04 / 38
p0 0.0003015 ± 3.585e−07
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

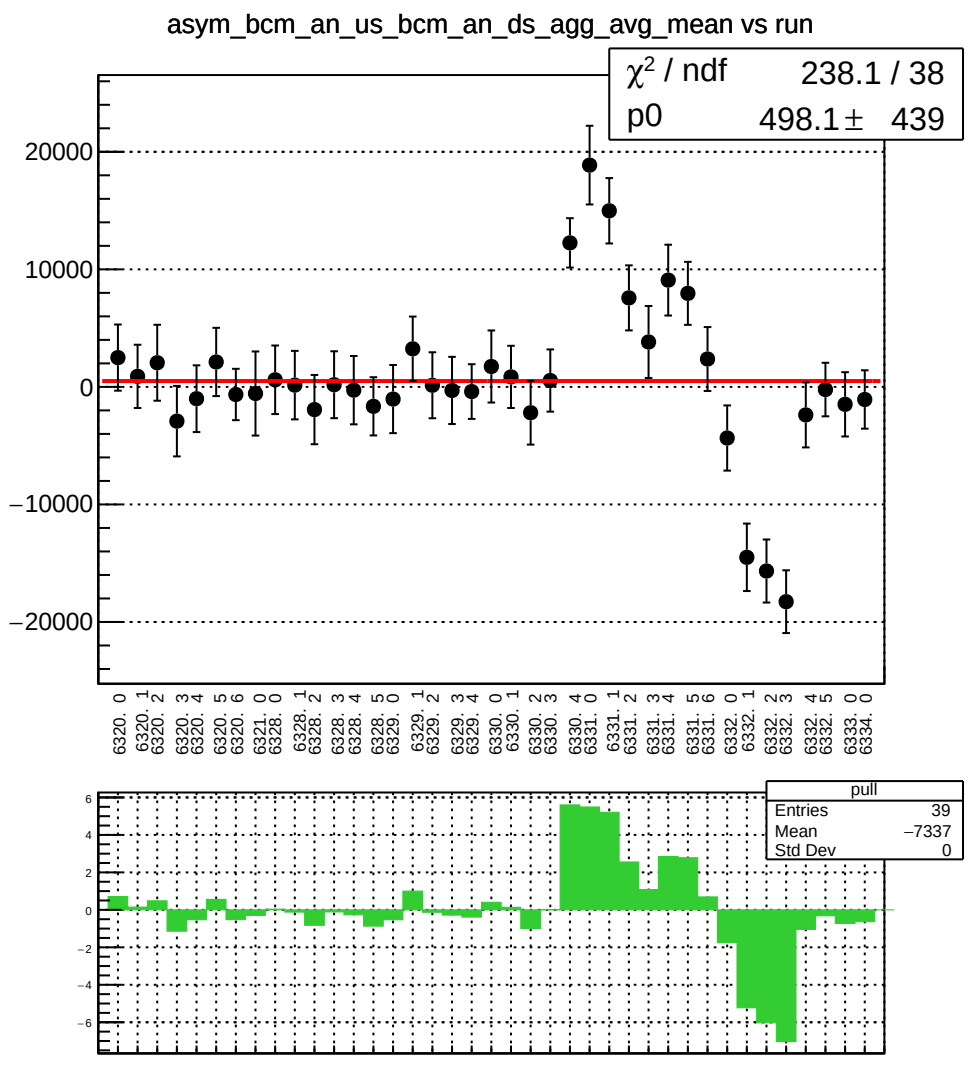

yield_atr1_mean vs run
χ² / ndf 1.53e+05 / 38
p0 0.03888 ± 2.305e–07
0.0394
0.0393
0.0392
0.0391
0.039
0.0389
0.0388
0.0387
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean –8.004
Std Dev 0
100
50
0
–50
–100

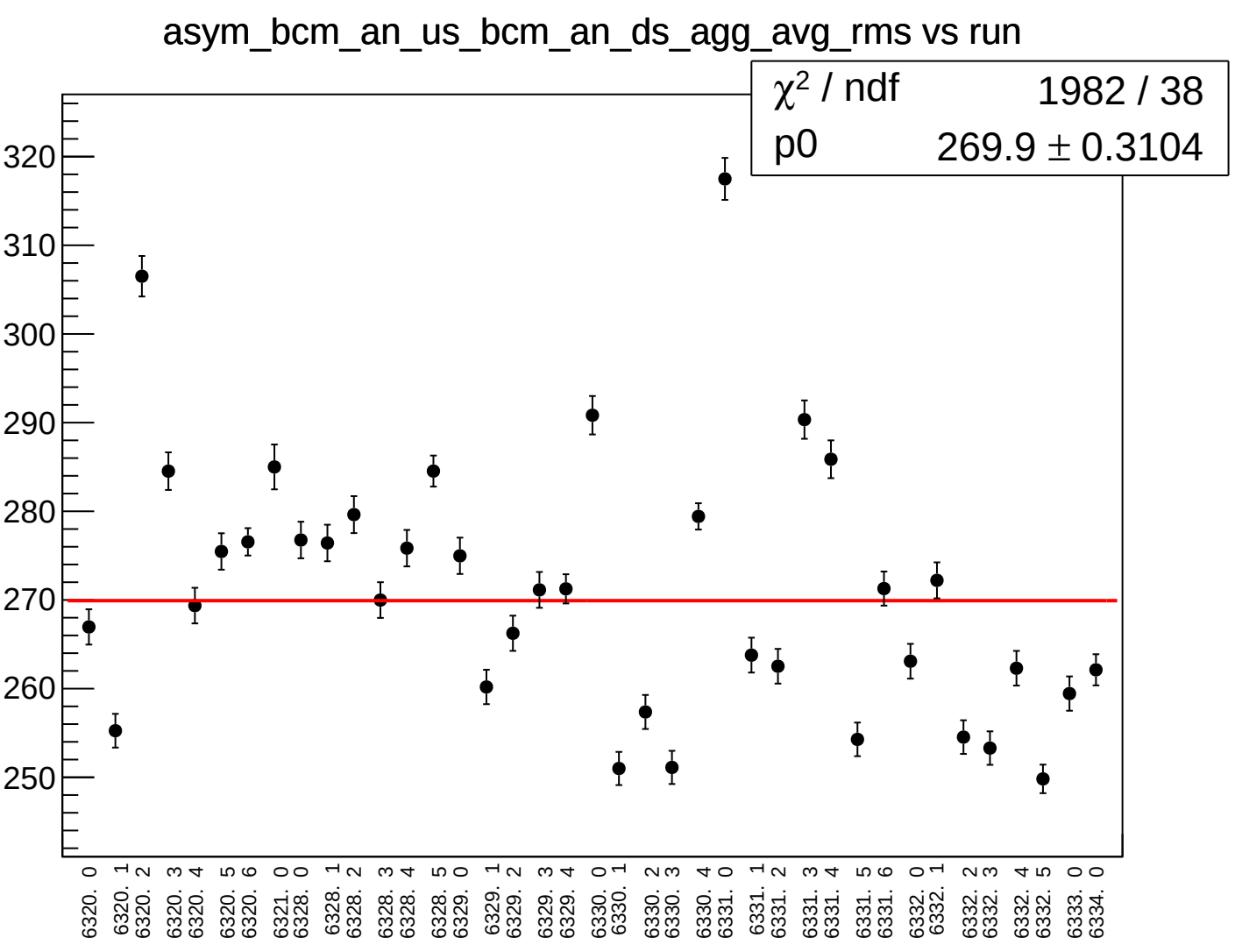

pull1D
Entries 39
Mean 0.5614
Std Dev 4.996
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

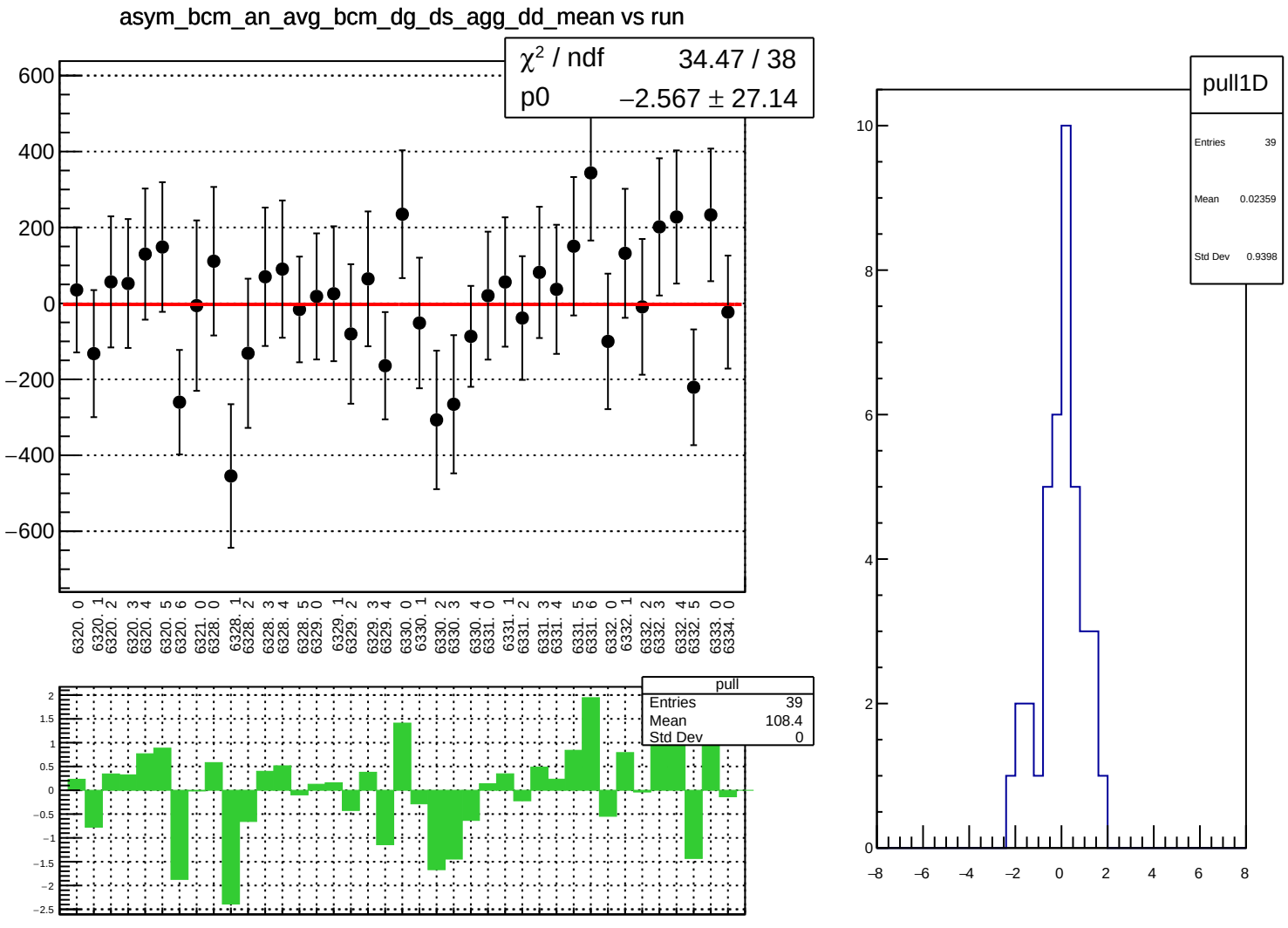

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.584e+04 / 38
p0 0.0001376 ± 1.63e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

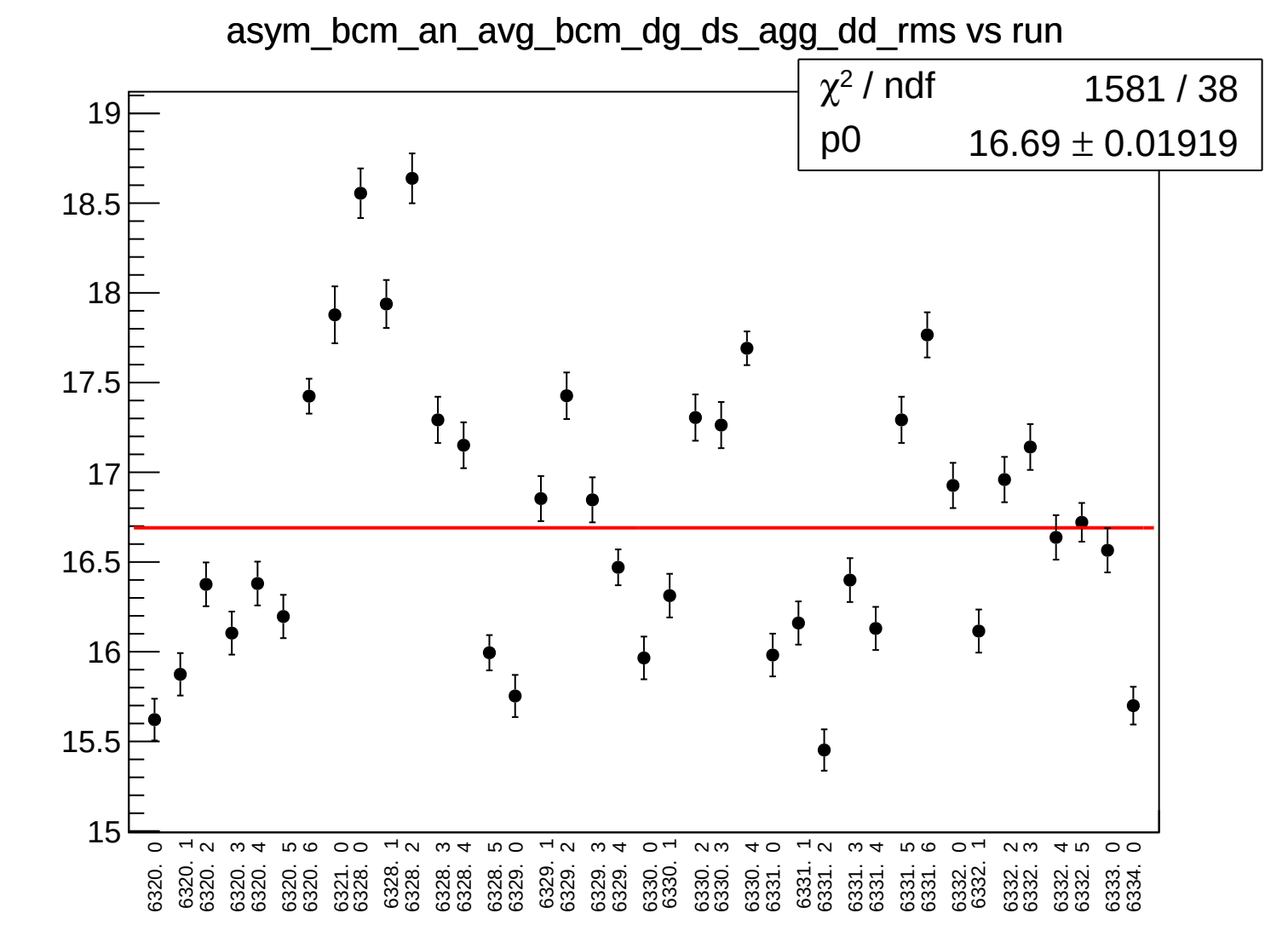

yield_atr2_mean vs run
χ² / ndf 4.051e+05 / 38
p0 0.01107 ± 3.113e−07
0.0117
0.0116
0.0115
0.0114
0.0113
0.0112
0.0111
0.011
0.0109
0.0108
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 235.6
Std Dev 0
250
200
150
100
50
0
−50
−100
pull1D
Entries 39
Mean 2.048
Std Dev 3.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

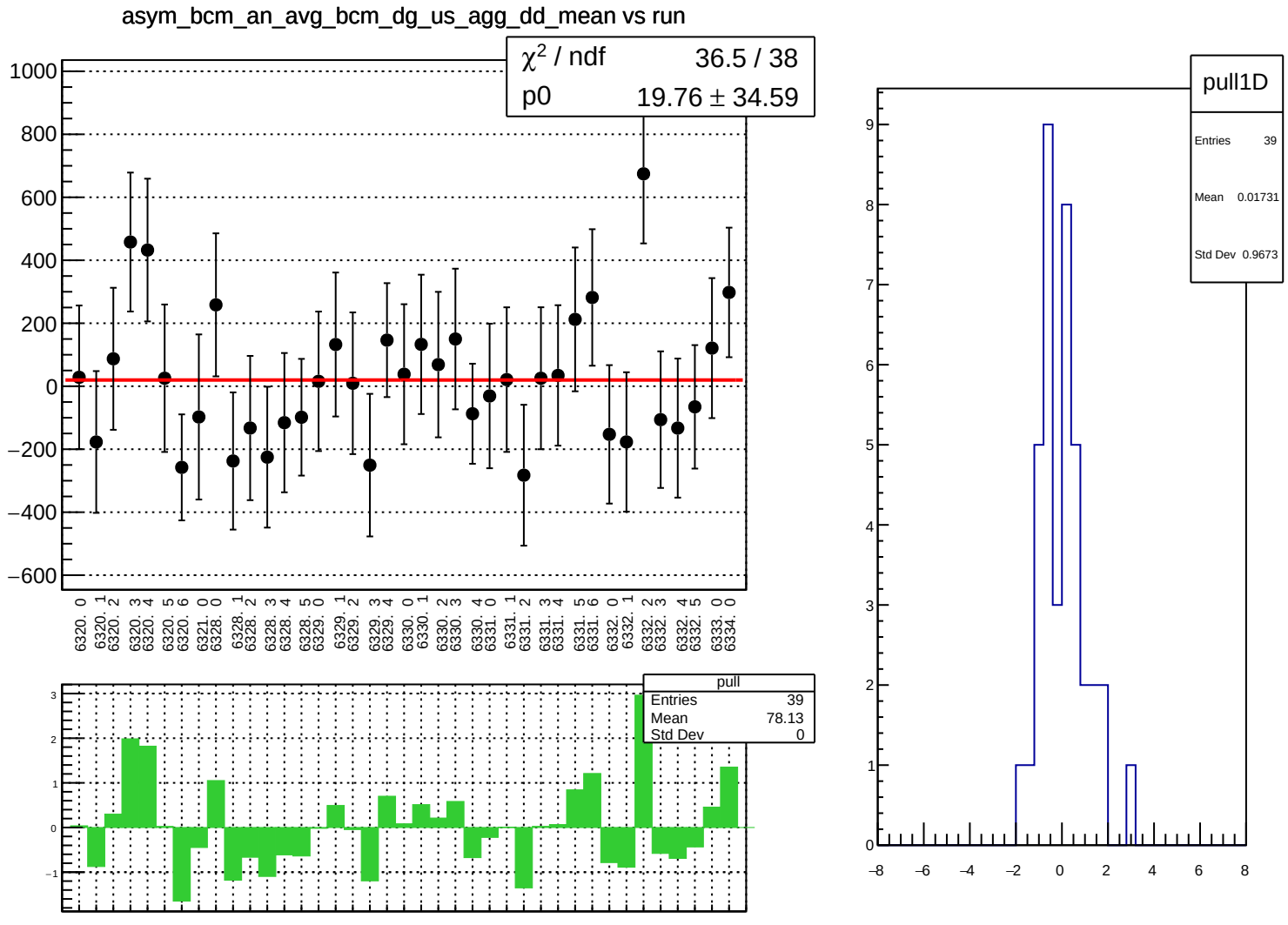

yield_atr2_rms vs run
×10⁻³
χ² / ndf 3.822e+04 / 38
p0 0.0001868 ± 2.201e−07
0.35
0.3
0.25
0.2
0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

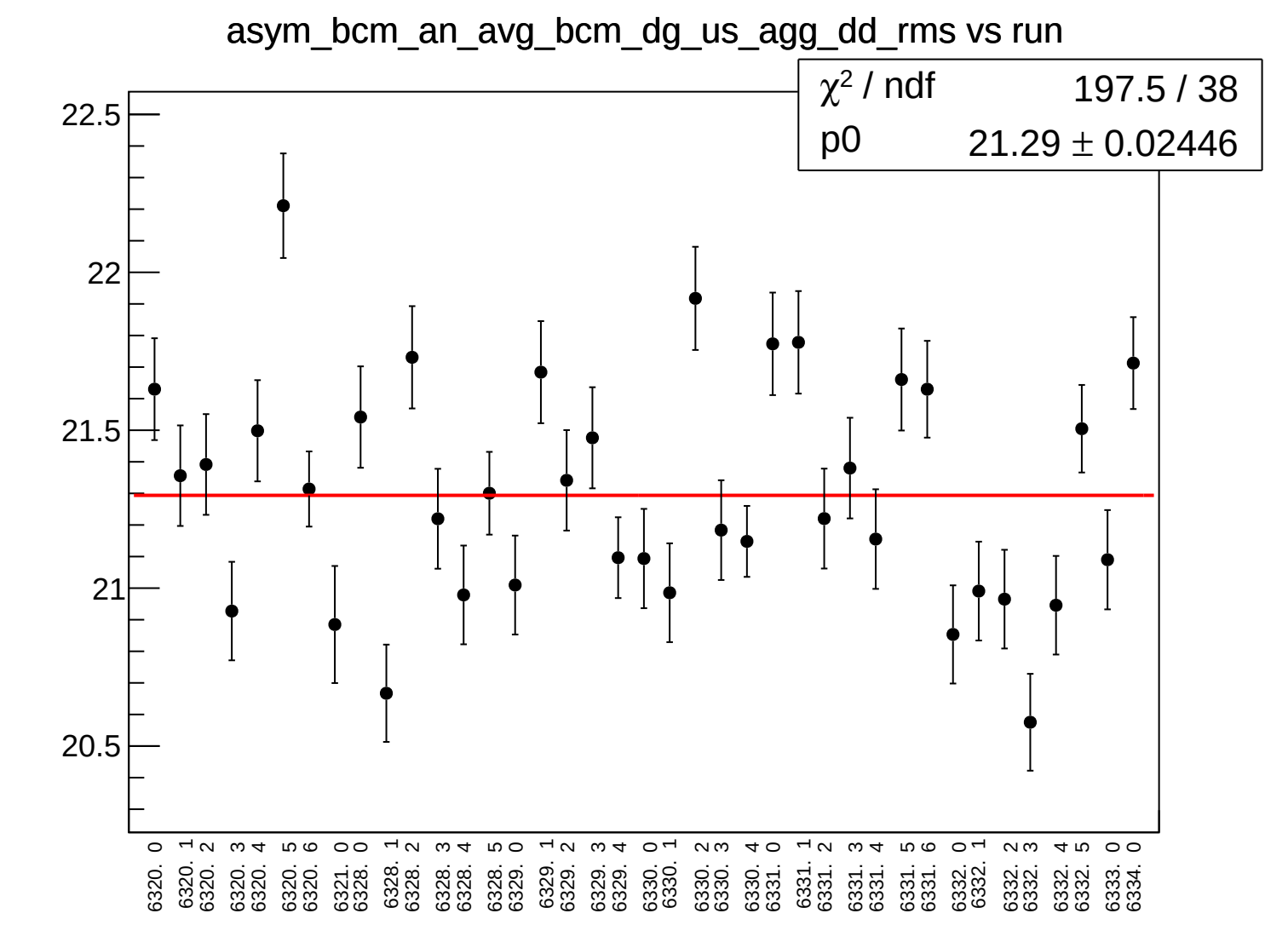

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 238.1 / 38
p0 498.1 ± 439
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7337
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean 0.0004822
Std Dev 2.471
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

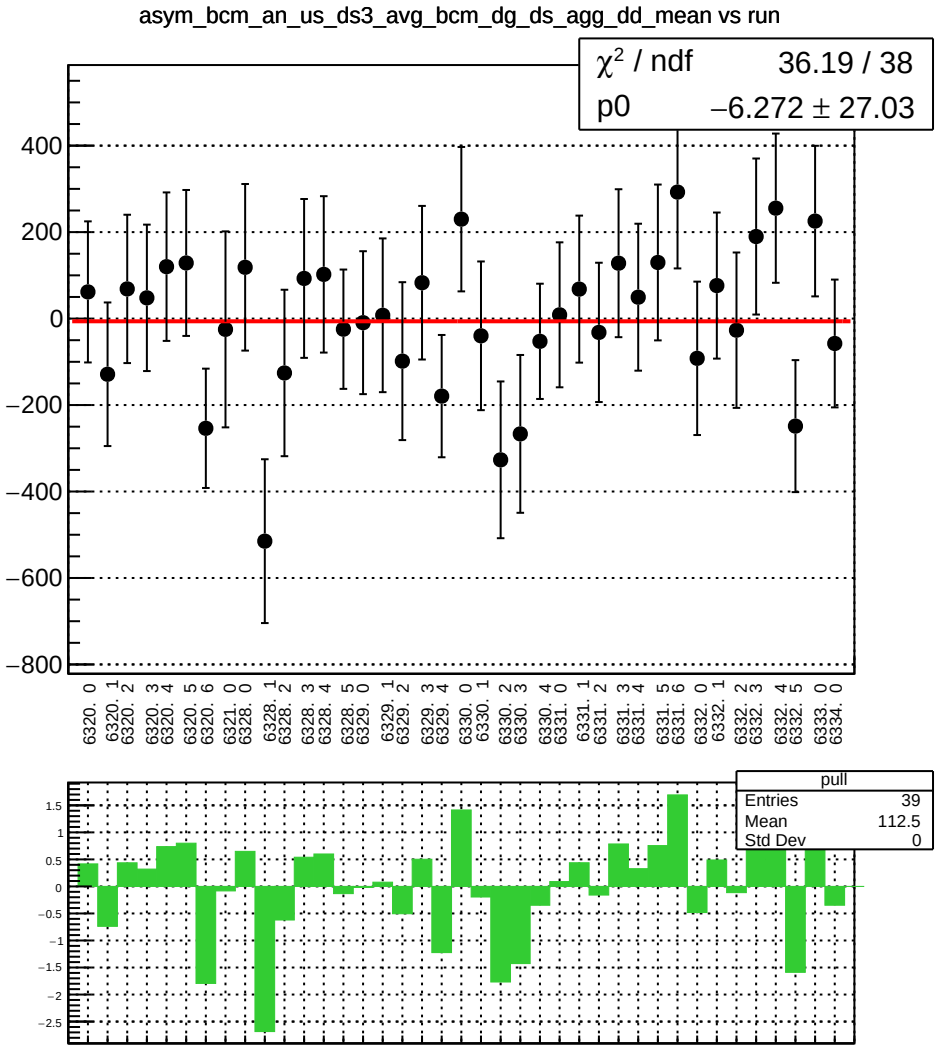

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1982 / 38
p0 269.9 ± 0.3104
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

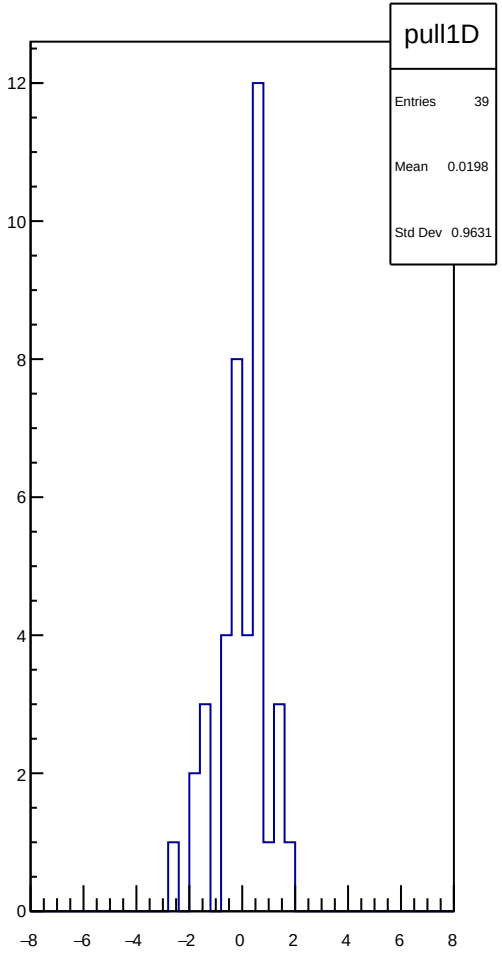

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 34.47 / 38
p0 −2.567 ± 27.14
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 108.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.02359
Std Dev 0.9398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

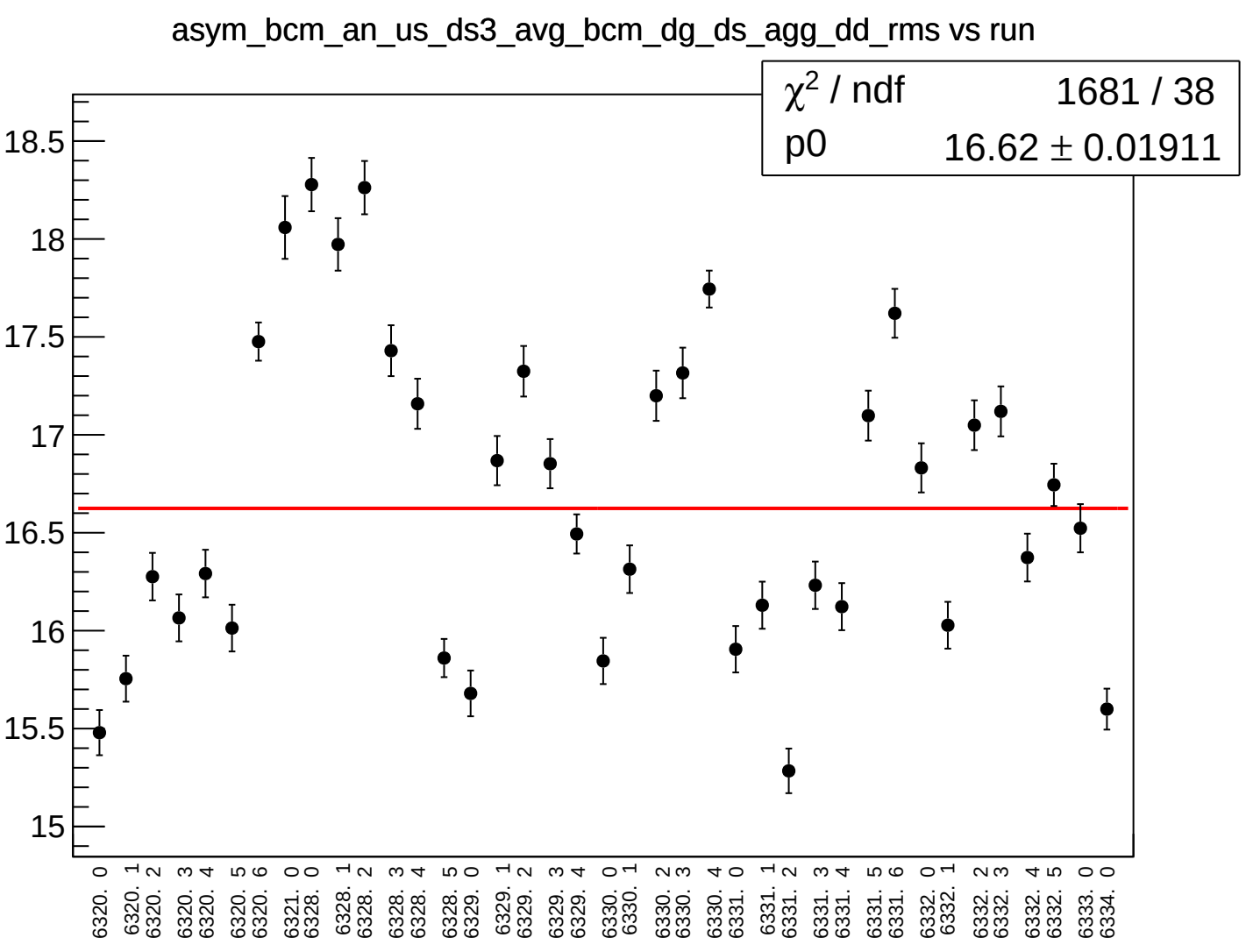

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1581 / 38
p0 16.69 ± 0.01919
19
18.5
18
17.5
17
16.5
16
15.5
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

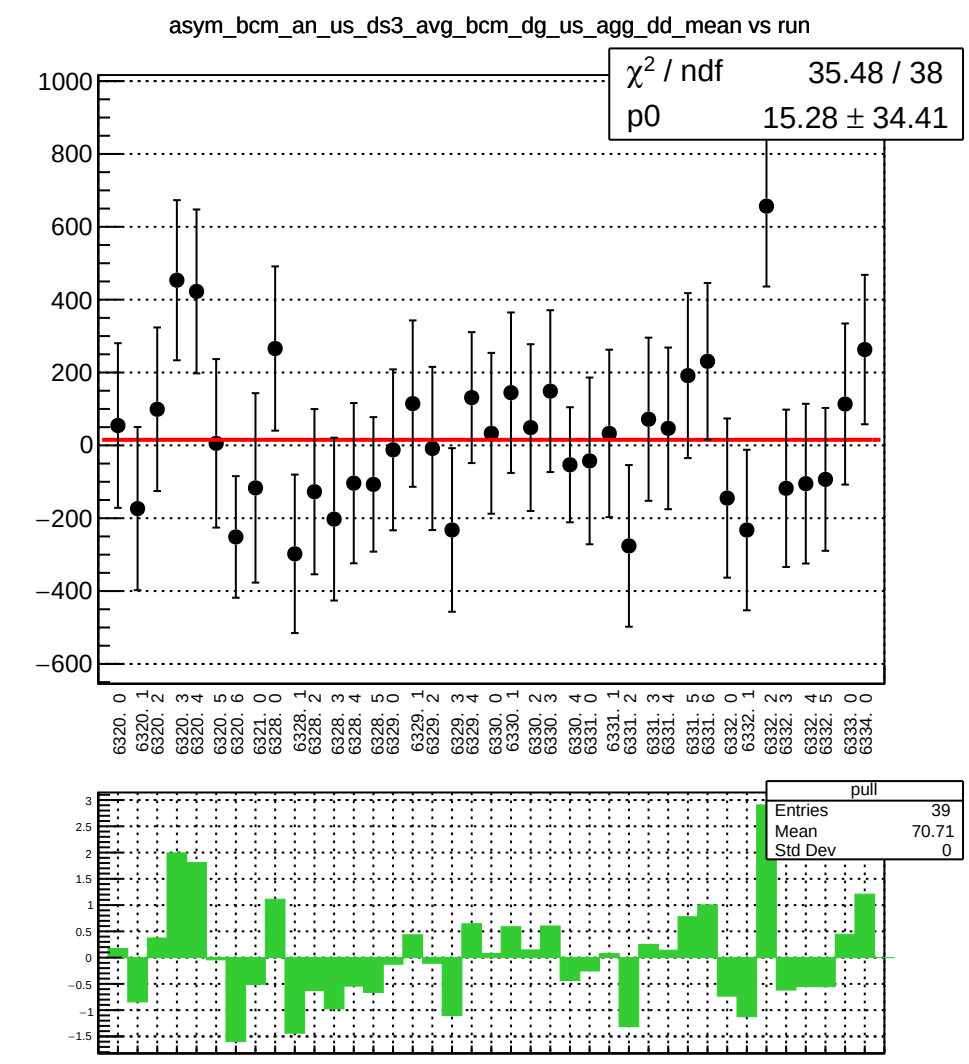

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 36.5 / 38
p0 19.76 ± 34.59
1000
800
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 78.13
Std Dev 0
3
2
1
0
−1
pull1D
Entries 39
Mean 0.01731
Std Dev 0.9673
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

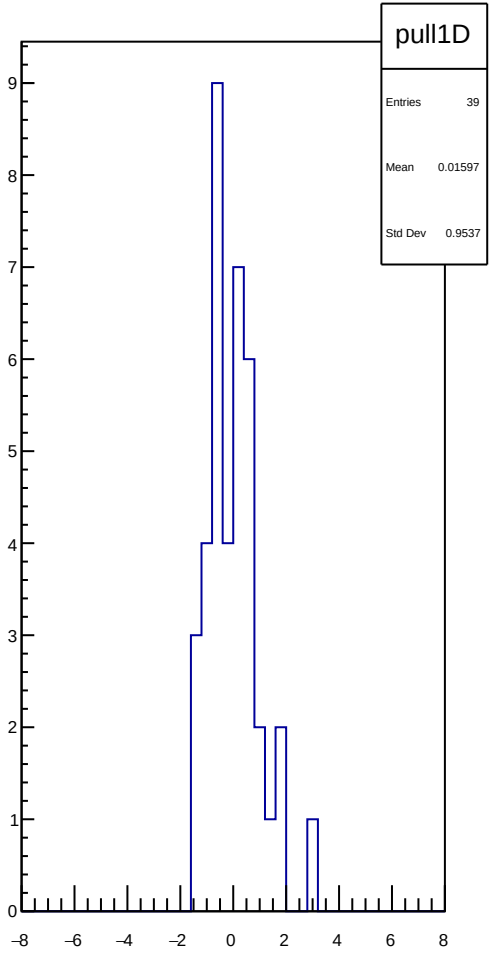

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 197.5 / 38
p0 21.29 ± 0.02446
22.5
22
21.5
21
20.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

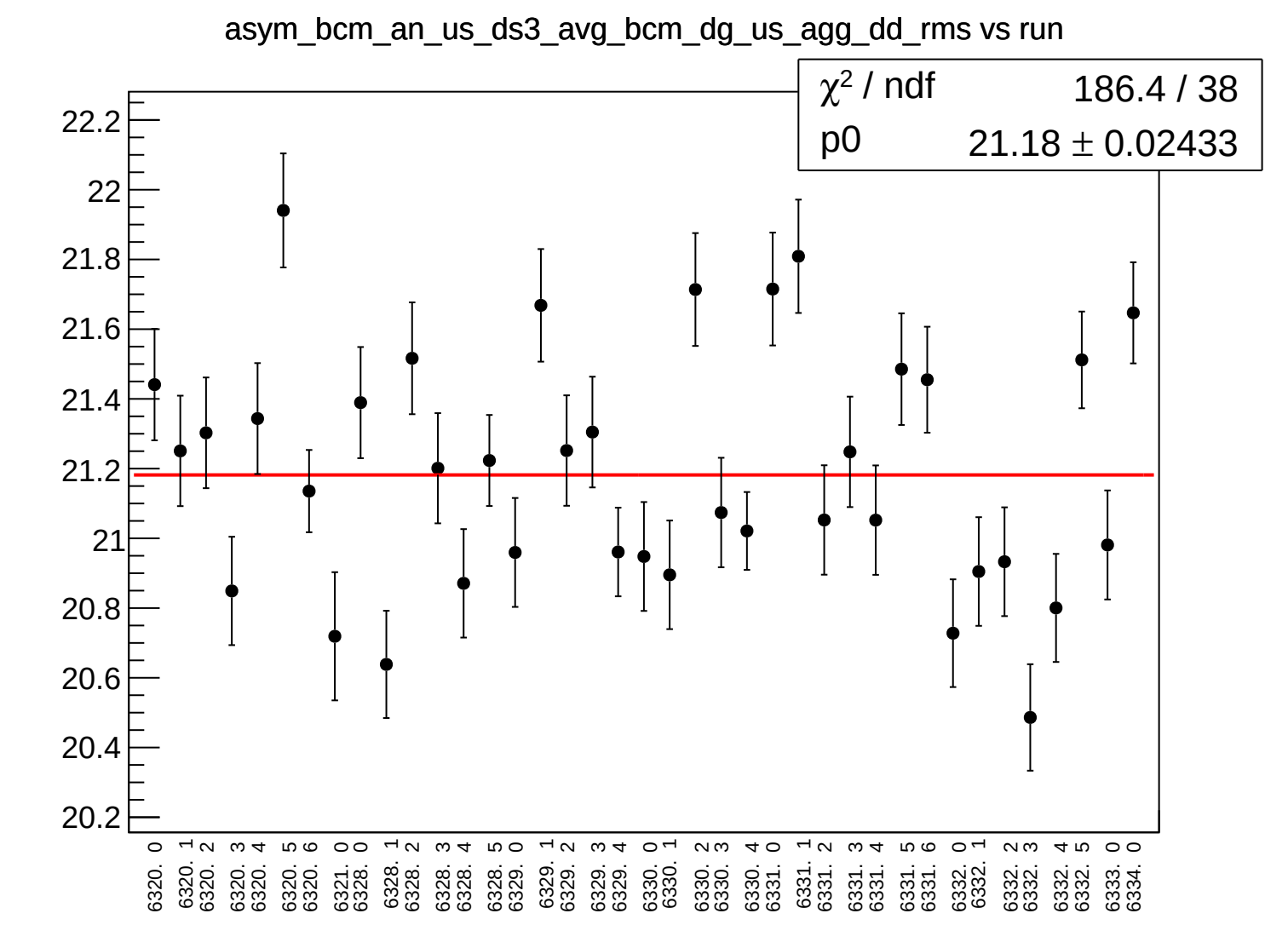

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 36.19 / 38
p0 −6.272 ± 27.03
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 112.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

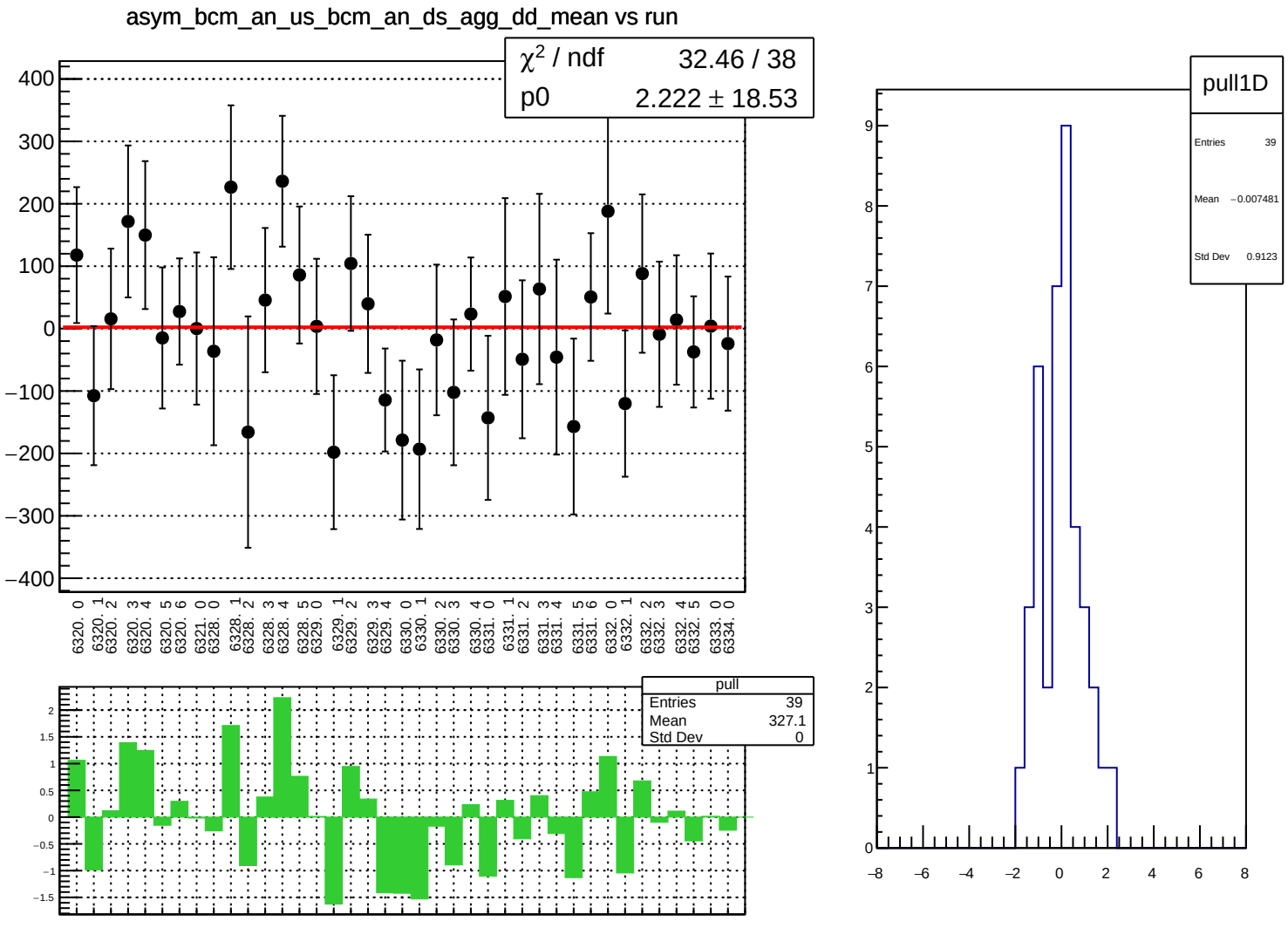

pull1D
Entries 39
Mean 0.0198
Std Dev 0.9631
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

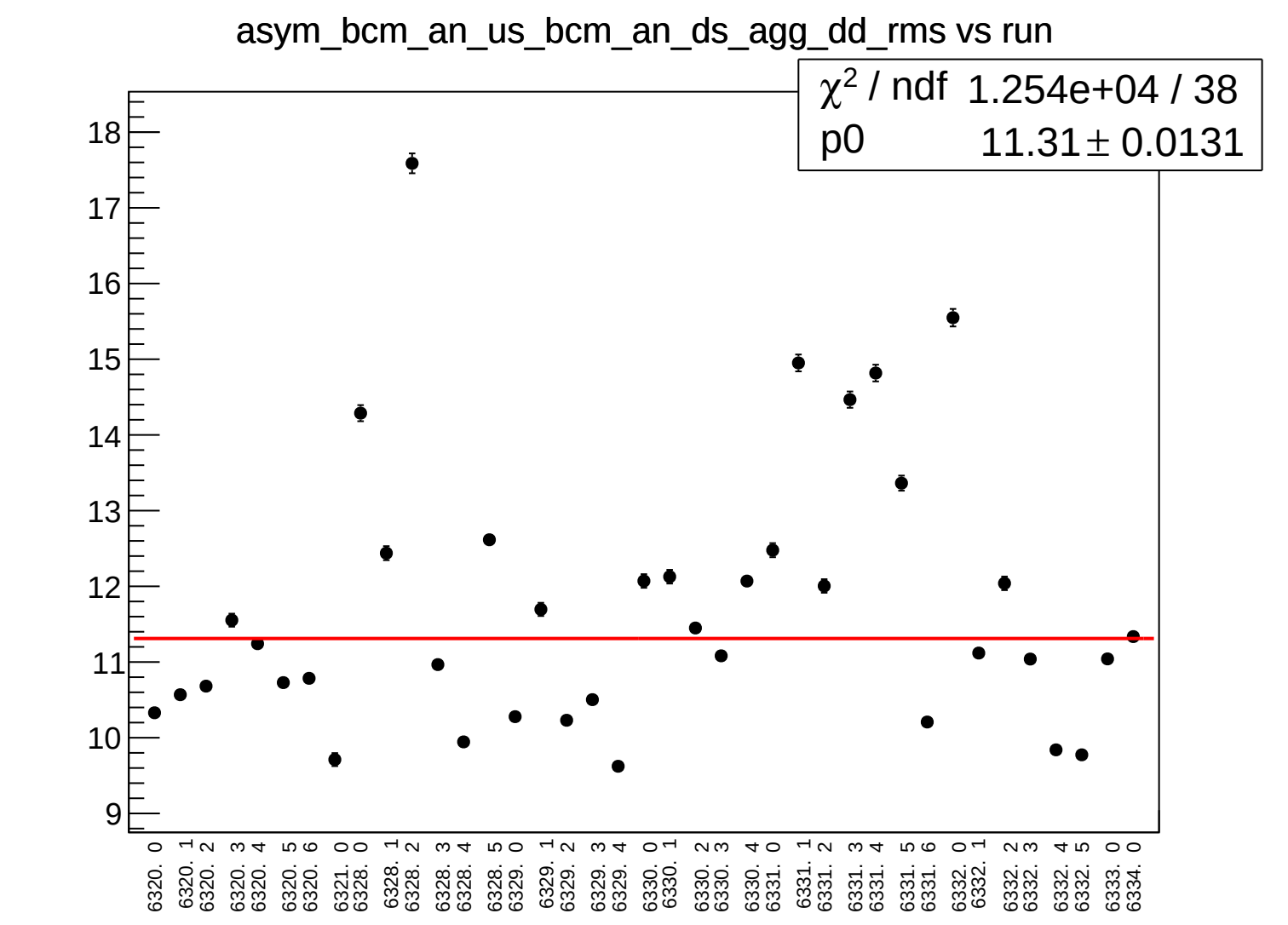

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1681 / 38
p0 16.62 ± 0.01911
18.5
18
17.5
17
16.5
16
15.5
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

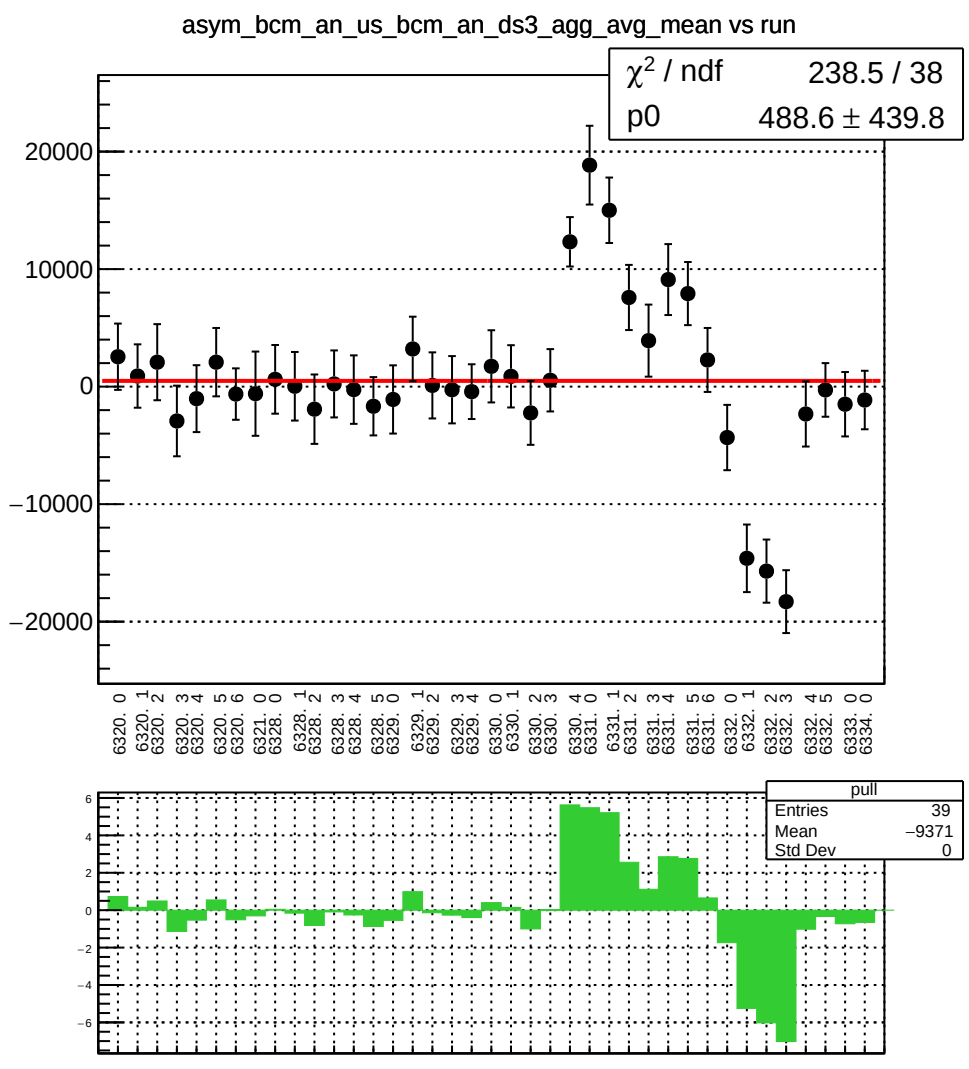

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 35.48 / 38
p0 15.28 ± 34.41
1000
800
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 70.71
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

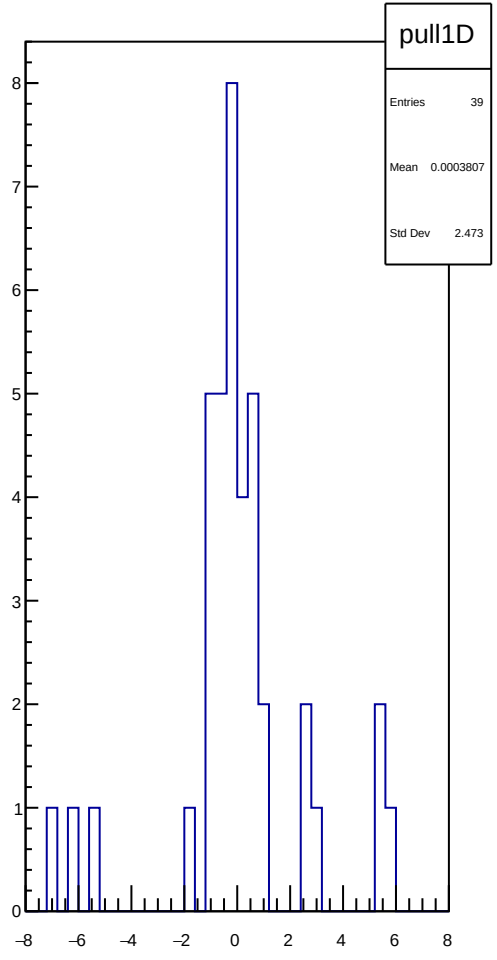

pull1D
Entries 39
Mean 0.01597
Std Dev 0.9537
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

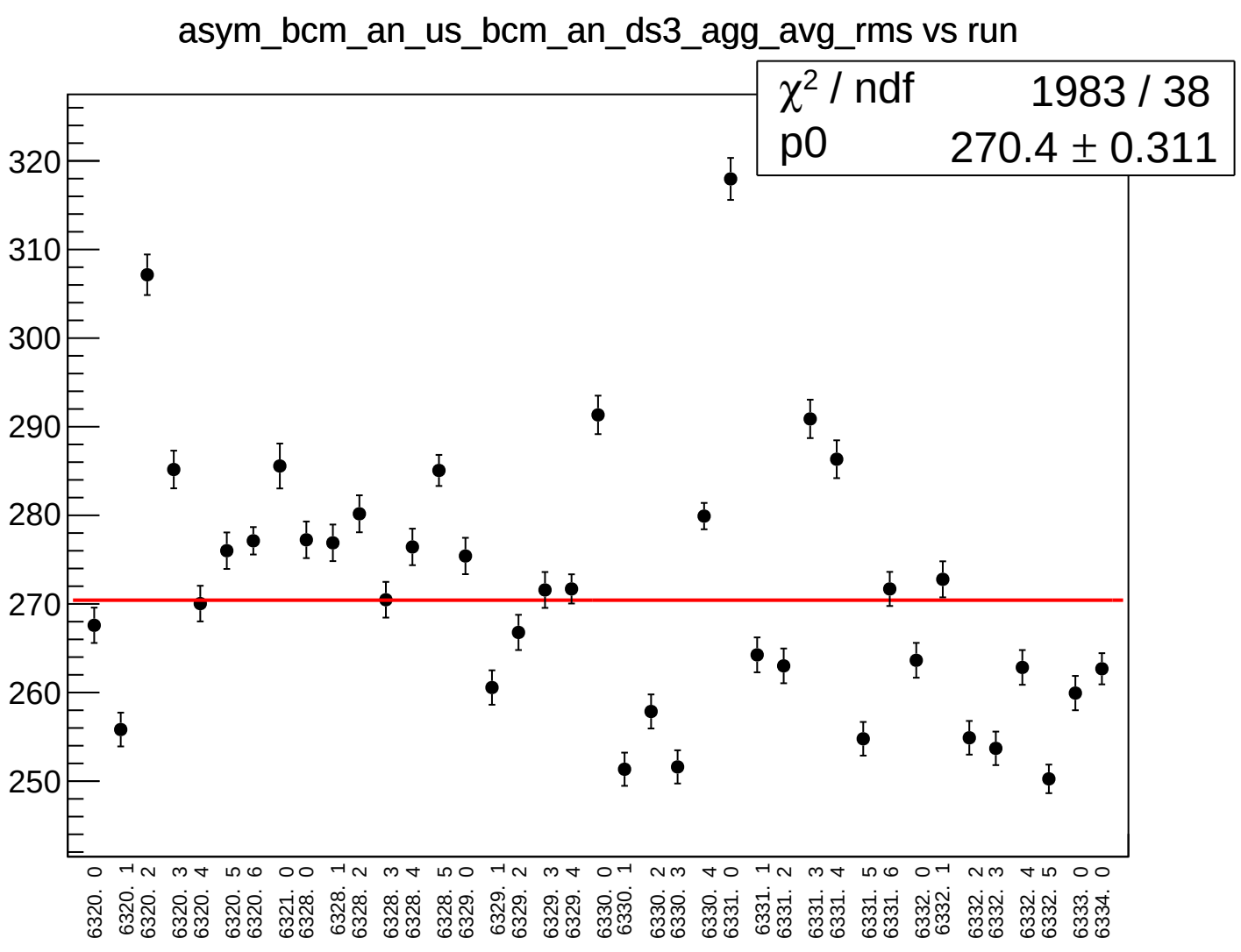

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 186.4 / 38
p0 21.18 ± 0.02433
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

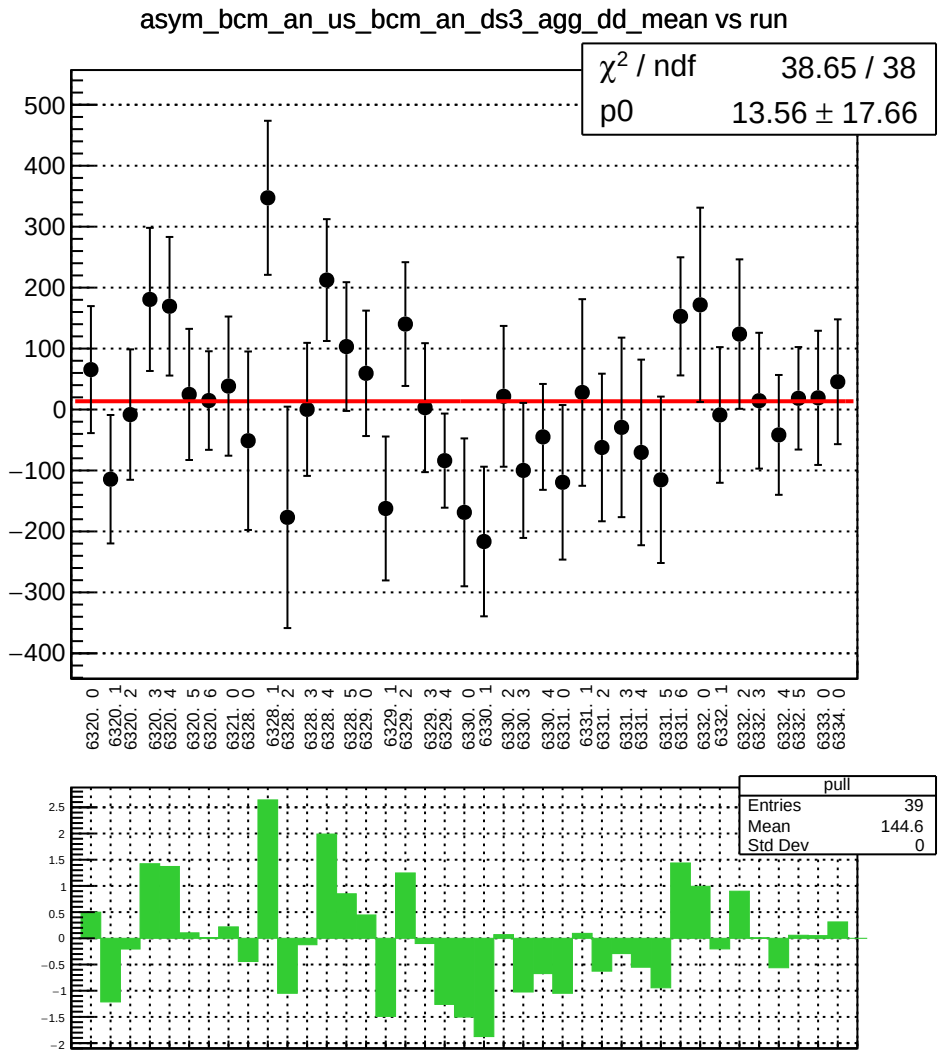

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 32.46 / 38
p0 2.222 ± 18.53
pull
Entries 39
Mean 327.1
Std Dev 0
pull1D
Entries 39
Mean −0.007481
Std Dev 0.9123

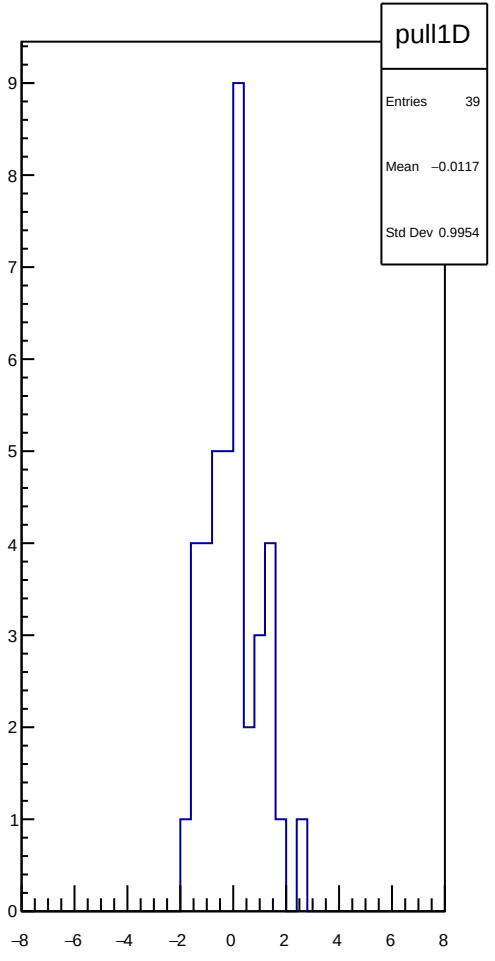

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.254e+04 / 38
p0 11.31 ± 0.0131
18
17
16
15
14
13
12
11
10
9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

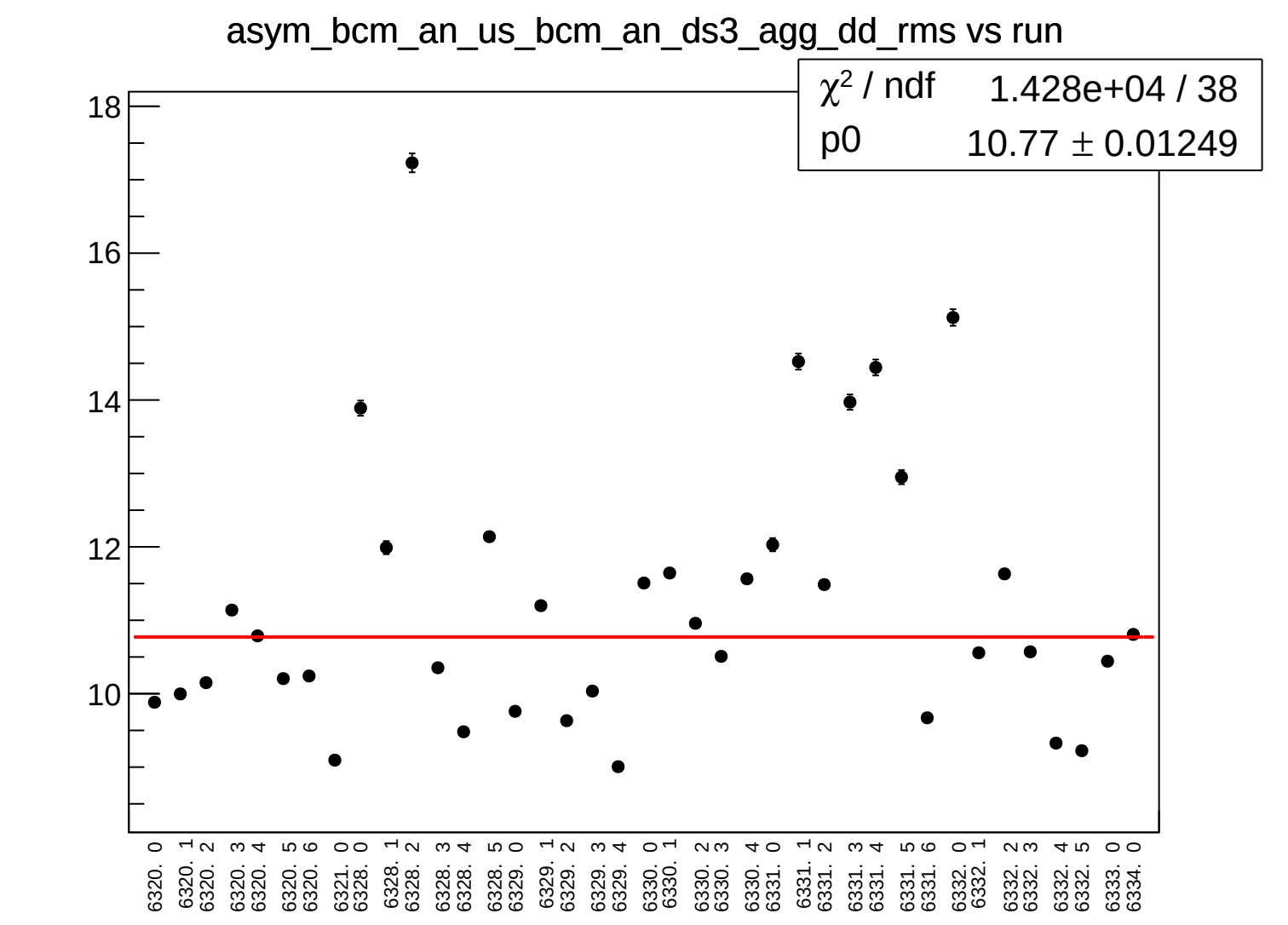

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 238.5 / 38
p0 488.6 ± 439.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9371
Std Dev 0
6
4
2
0
−2
−4
−6

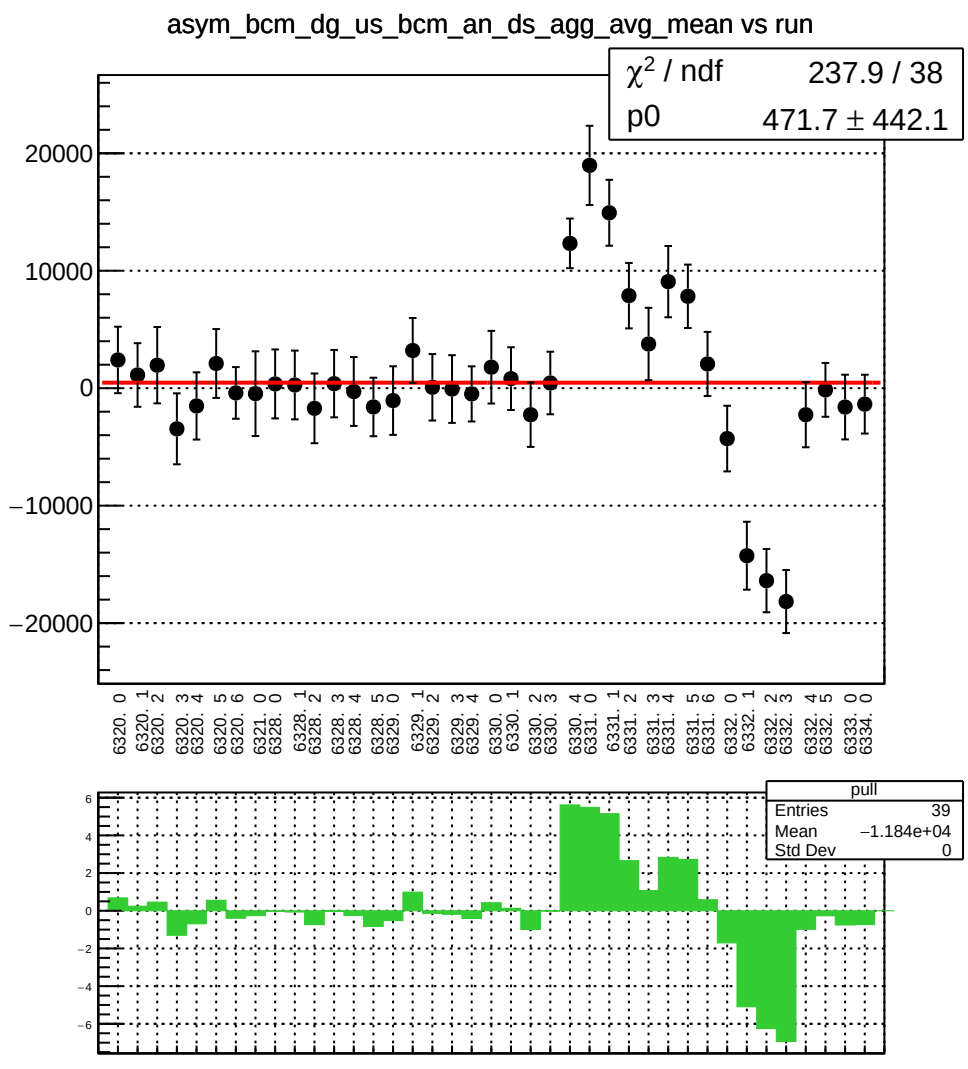

pull1D
Entries 39
Mean 0.0003807
Std Dev 2.473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

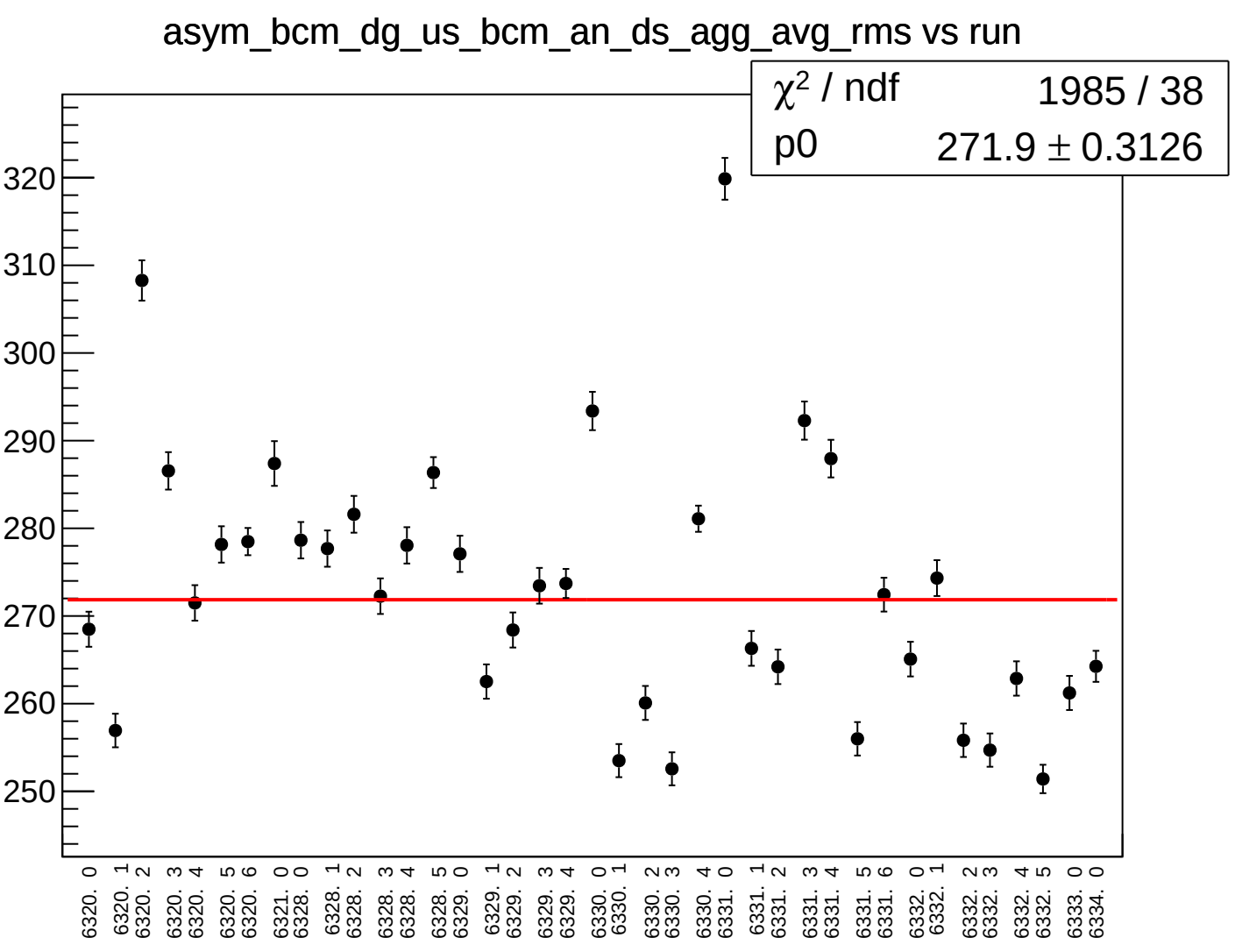

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1983 / 38
p0 270.4 ± 0.311
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

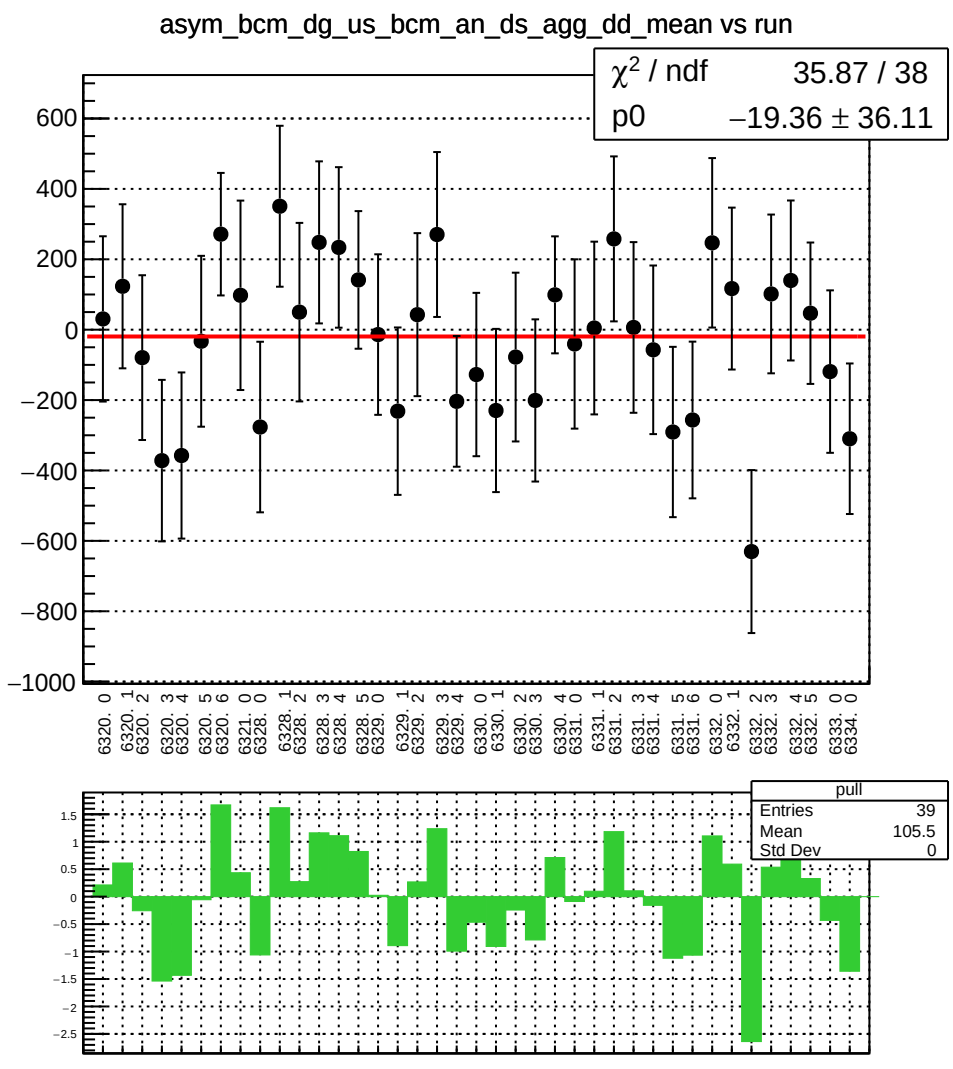

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 38.65 / 38
p0 13.56 ± 17.66
pull
Entries 39
Mean 144.6
Std Dev 0

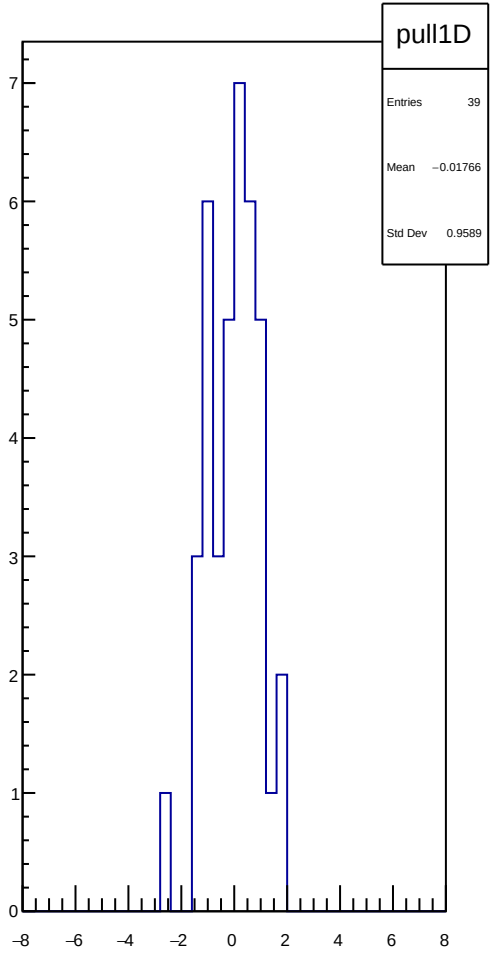

pull1D
Entries 39
Mean −0.0117
Std Dev 0.9954

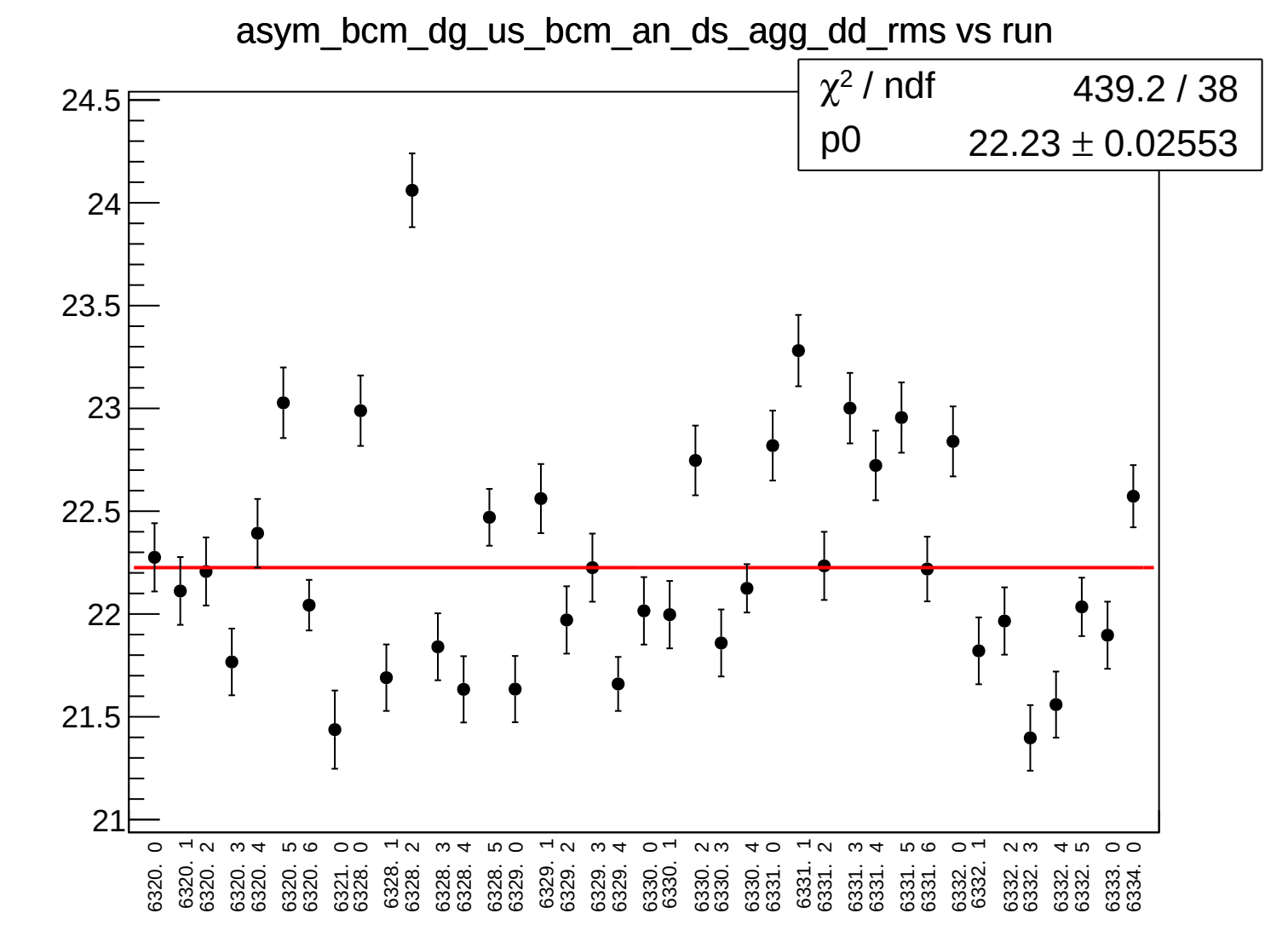

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.428e+04 / 38
p0 10.77 ± 0.01249
18
16
14
12
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

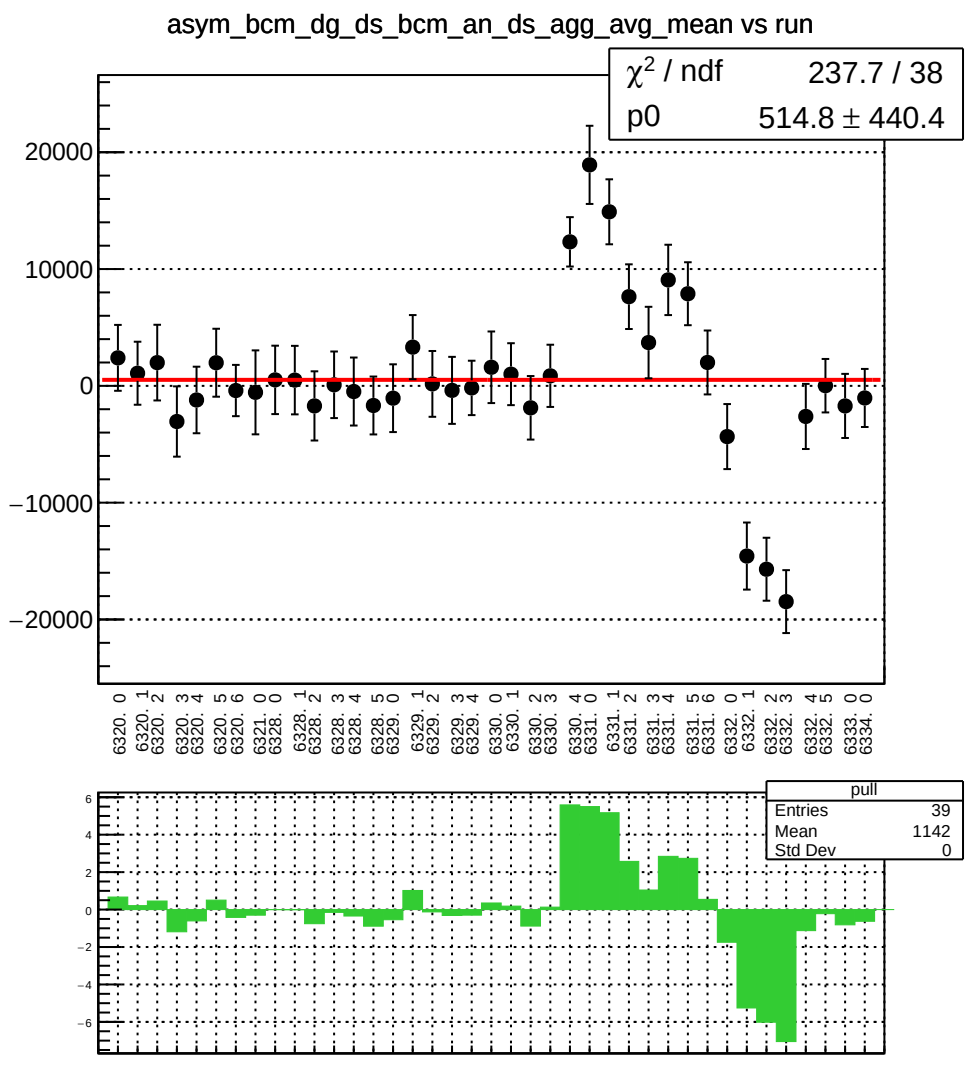

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 237.9 / 38
p0 471.7 ± 442.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.184e+04
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean 0.000302
Std Dev 2.47
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

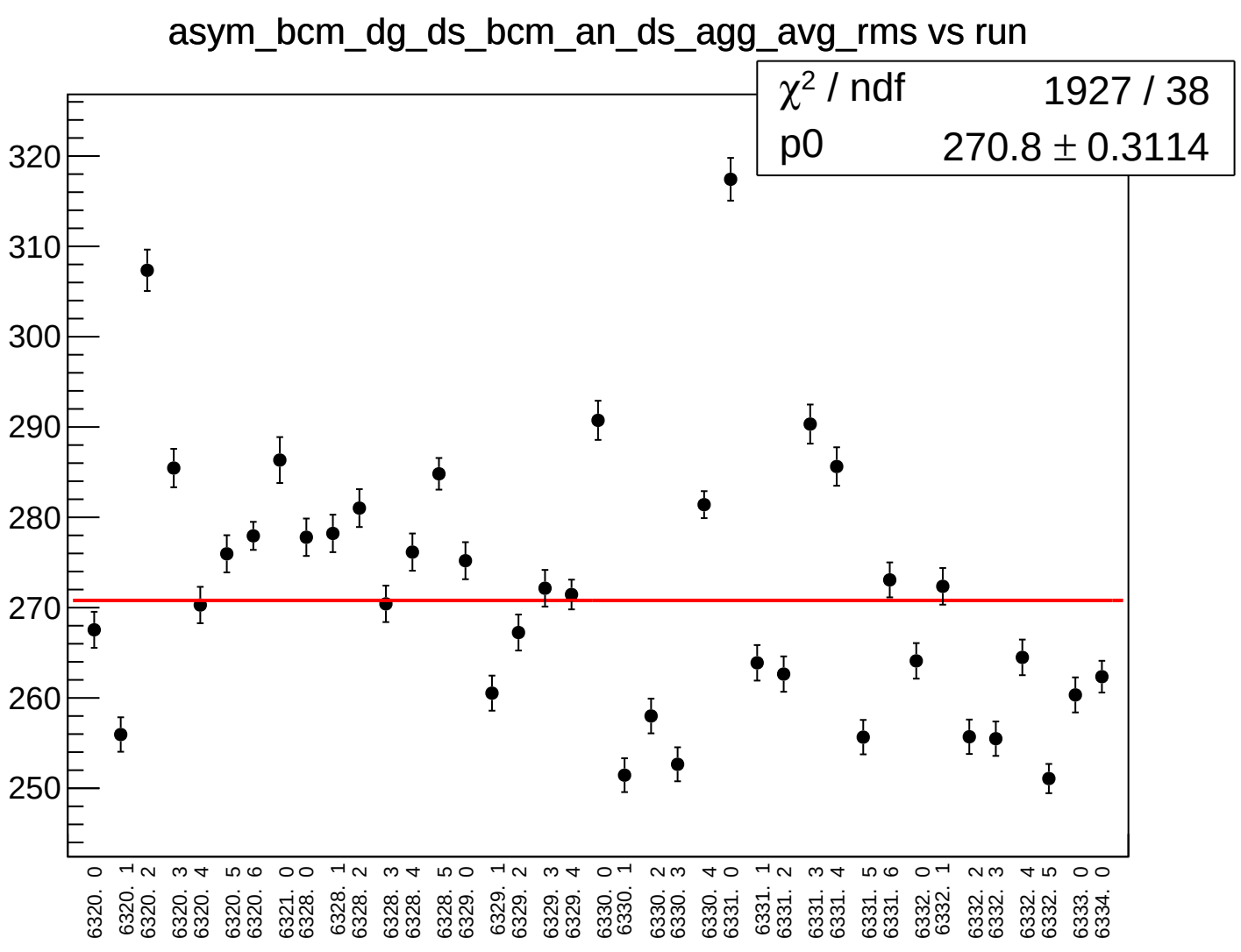

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1985 / 38
p0 271.9 ± 0.3126
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

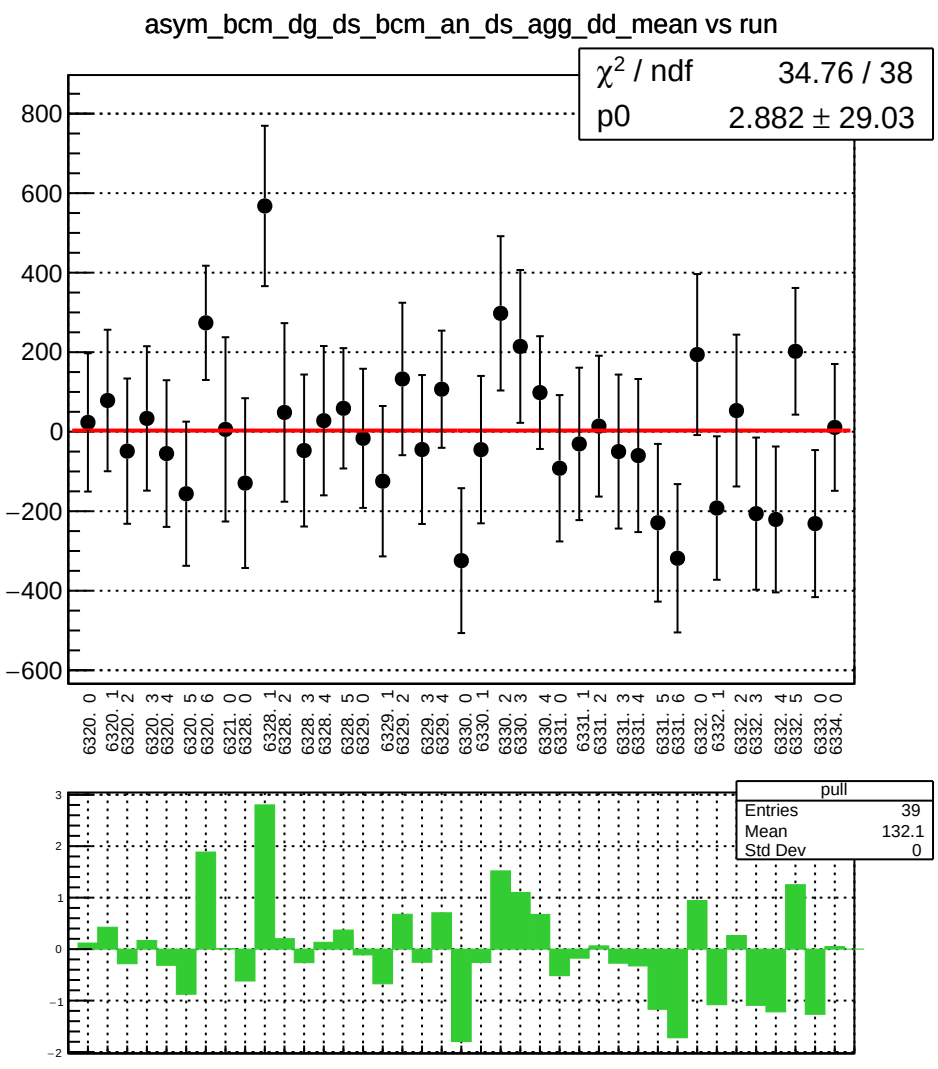

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 35.87 / 38
p0 −19.36 ± 36.11
600
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 105.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

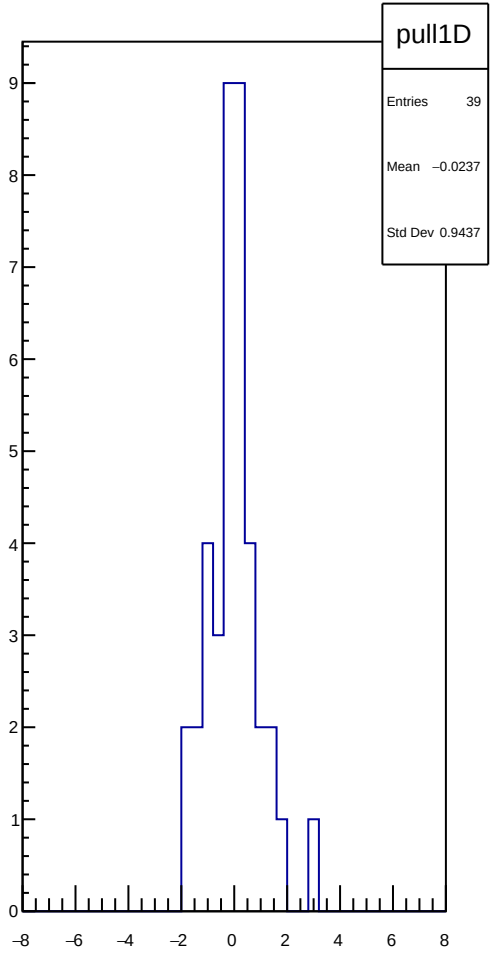

pull1D
Entries 39
Mean −0.01766
Std Dev 0.9589
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

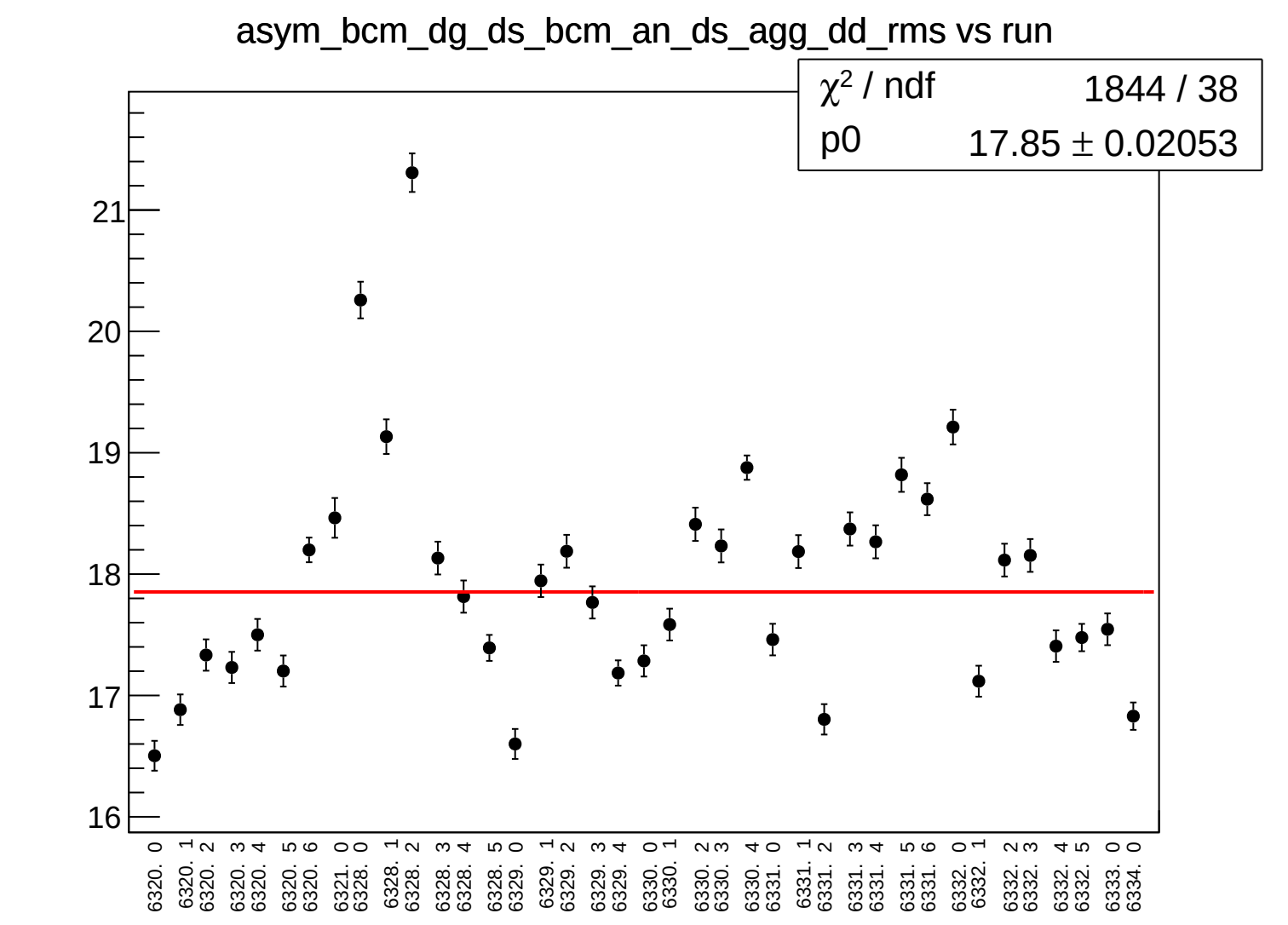

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 439.2 / 38
p0 22.23 ± 0.02553
24.5
24
23.5
23
22.5
22
21.5
21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

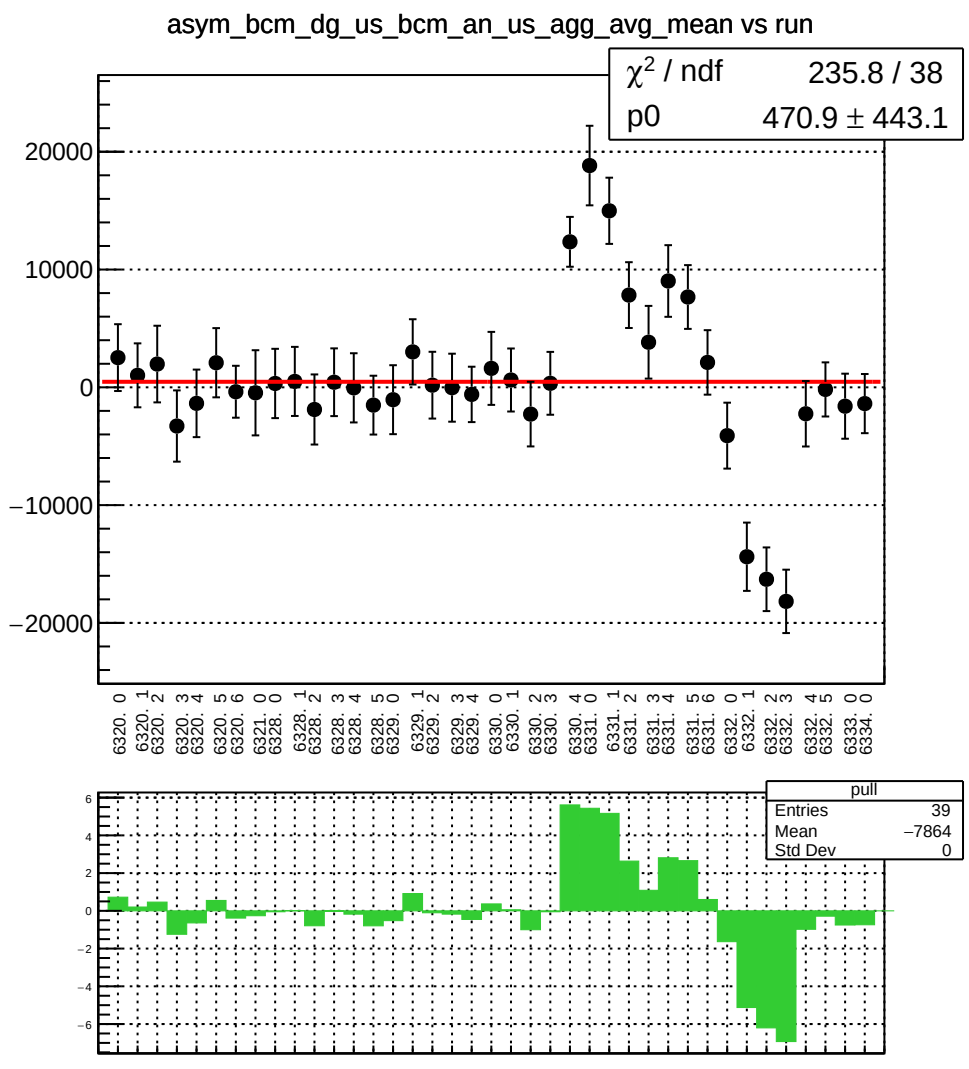

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 237.7 / 38
p0 514.8 ± 440.4
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1142
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.00322
Std Dev 2.469
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

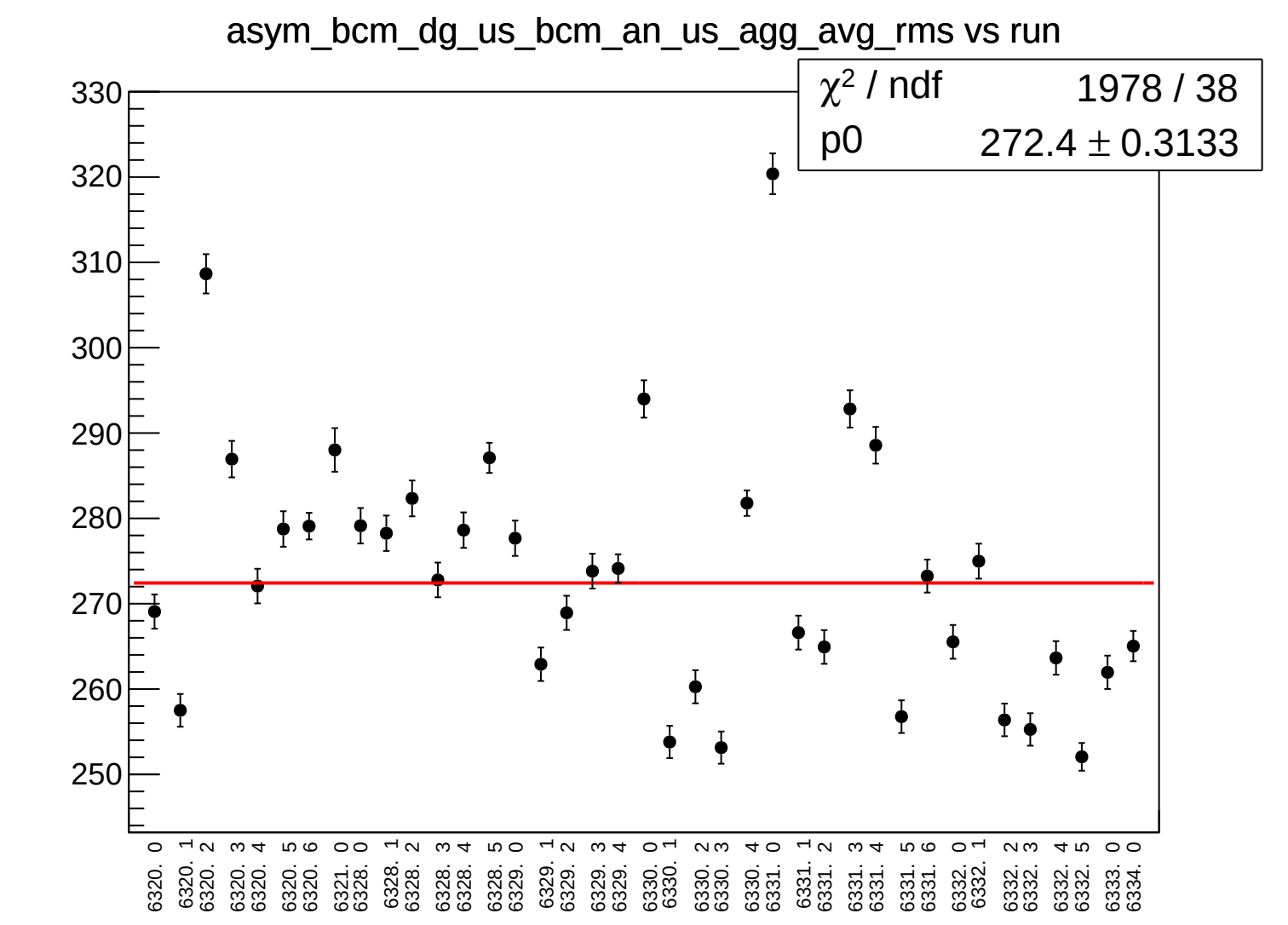

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1927 / 38
p0 270.8 ± 0.3114
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

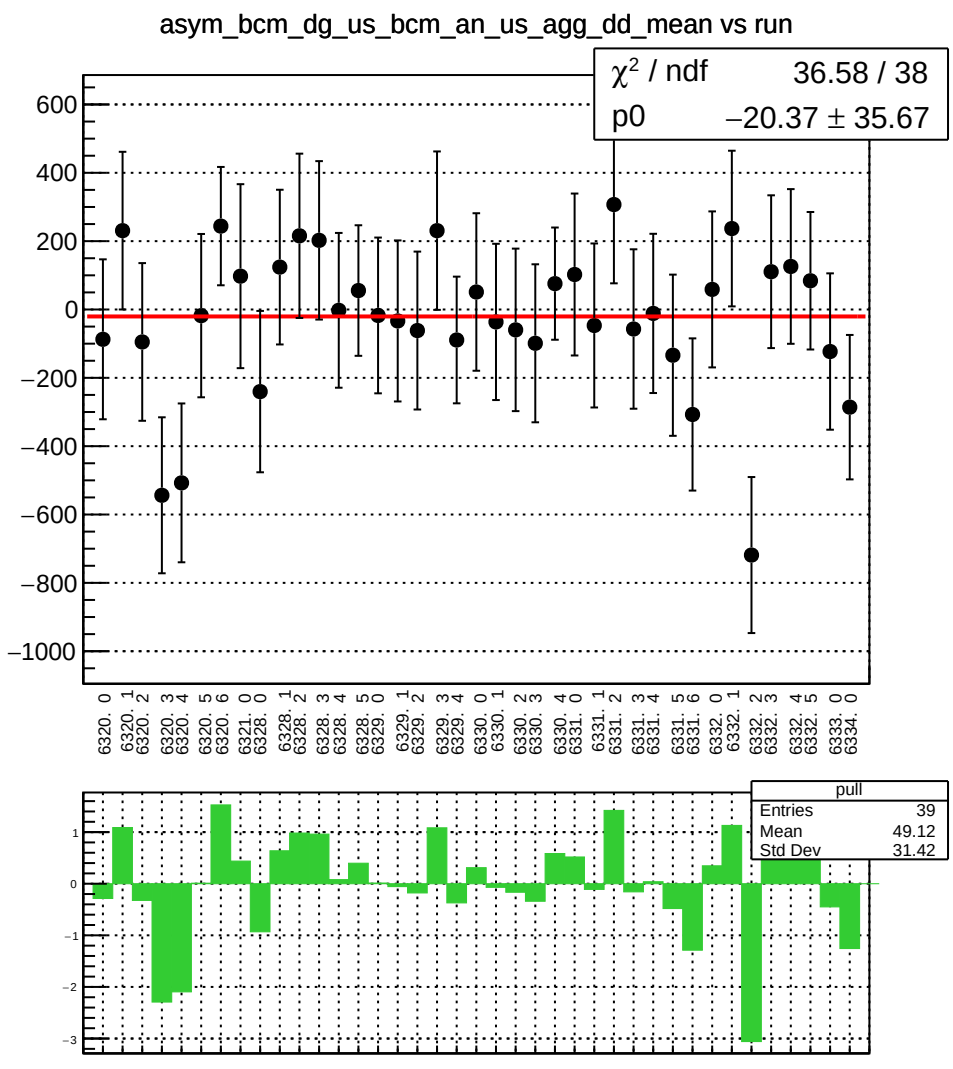

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 34.76 / 38
p0 2.882 ± 29.03
pull
Entries 39
Mean 132.1
Std Dev 0

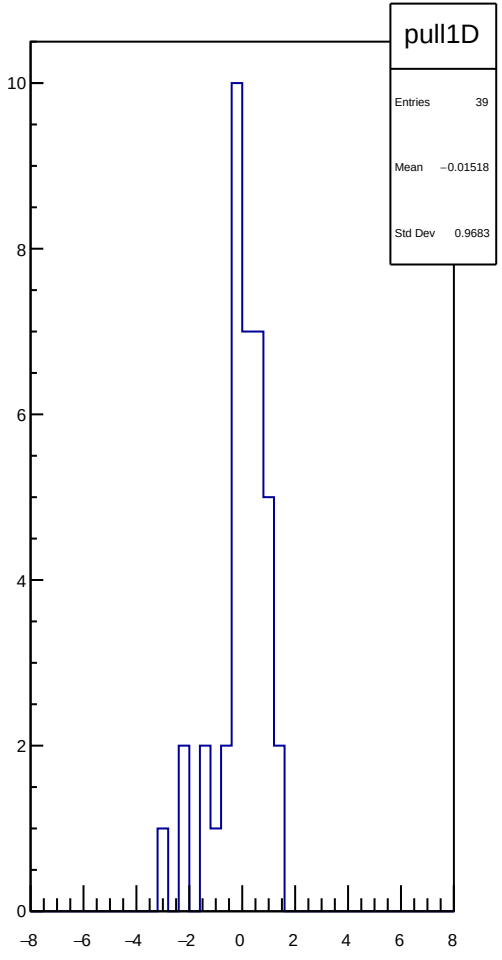

pull1D
Entries 39
Mean −0.0237
Std Dev 0.9437

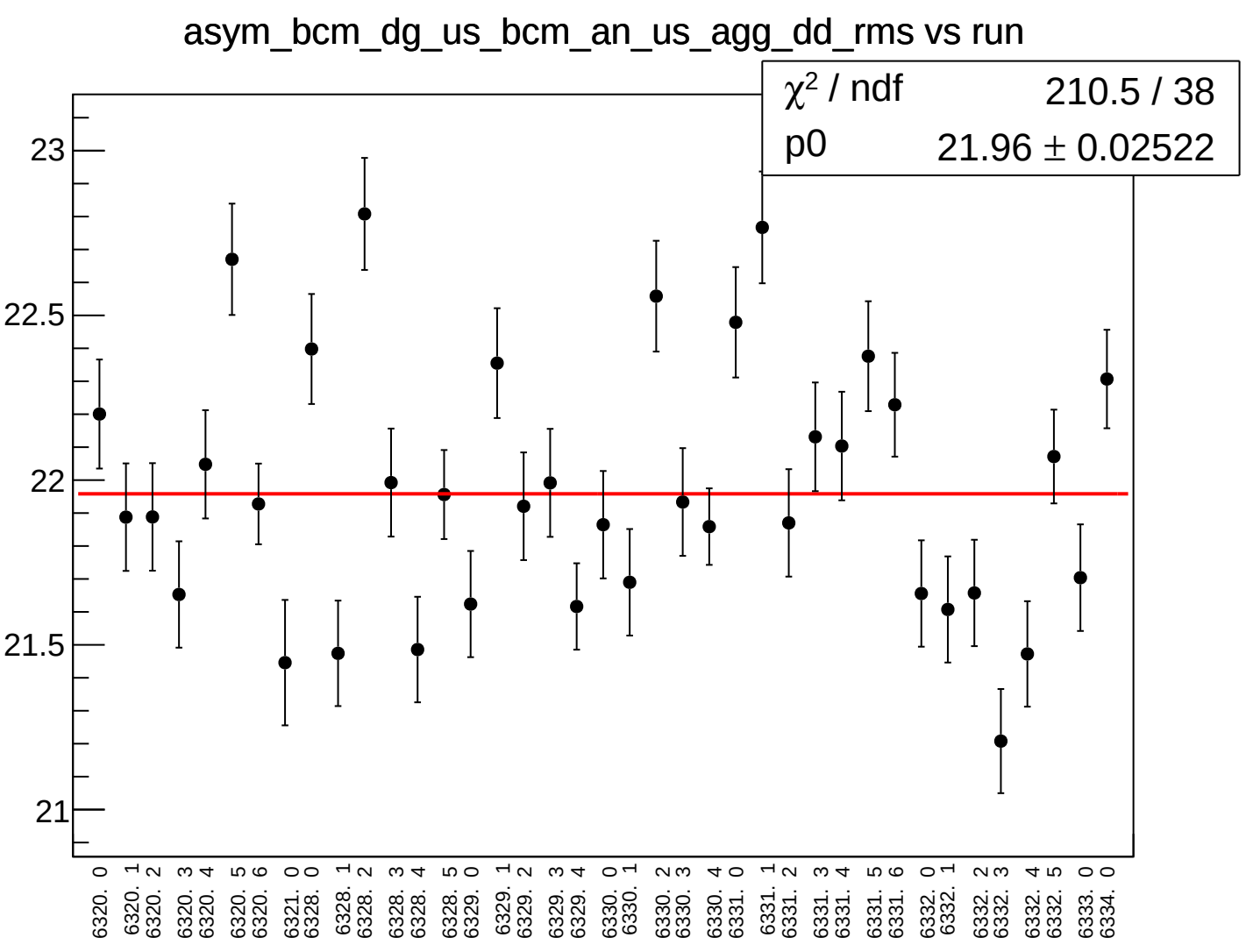

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1844 / 38
p0 17.85 ± 0.02053
21
20
19
18
17
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

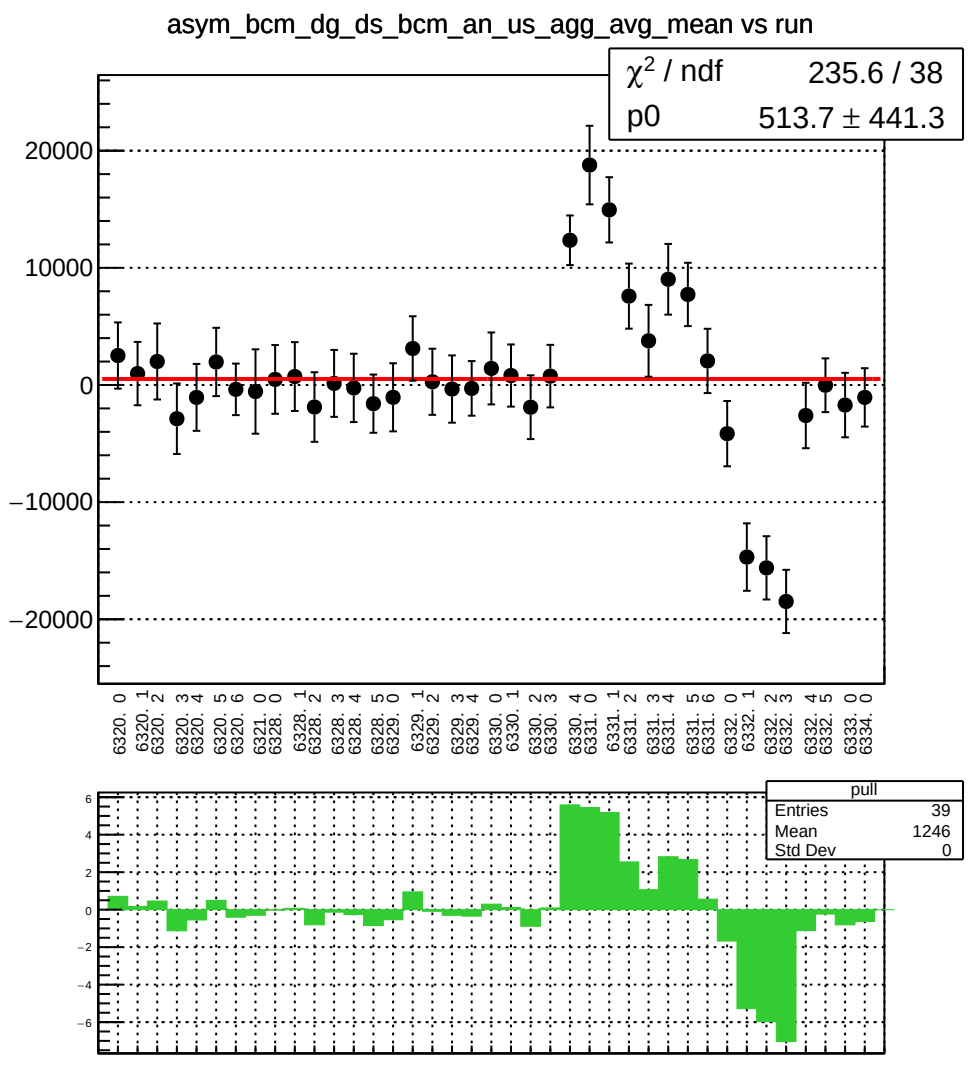

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 235.8 / 38
p0 470.9 ± 443.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7864
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean 0.0004634
Std Dev 2.459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

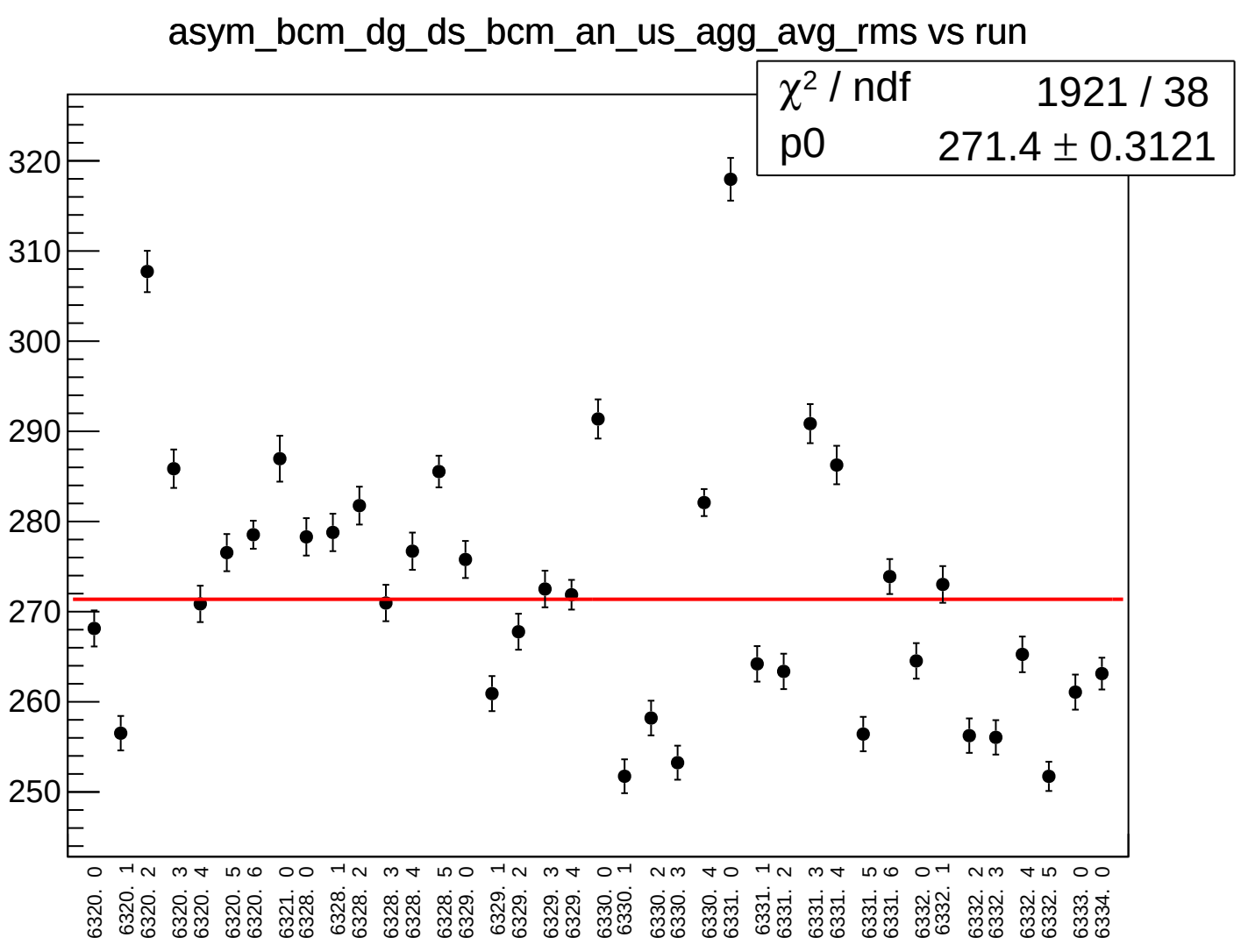

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1978 / 38
p0 272.4 ± 0.3133
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

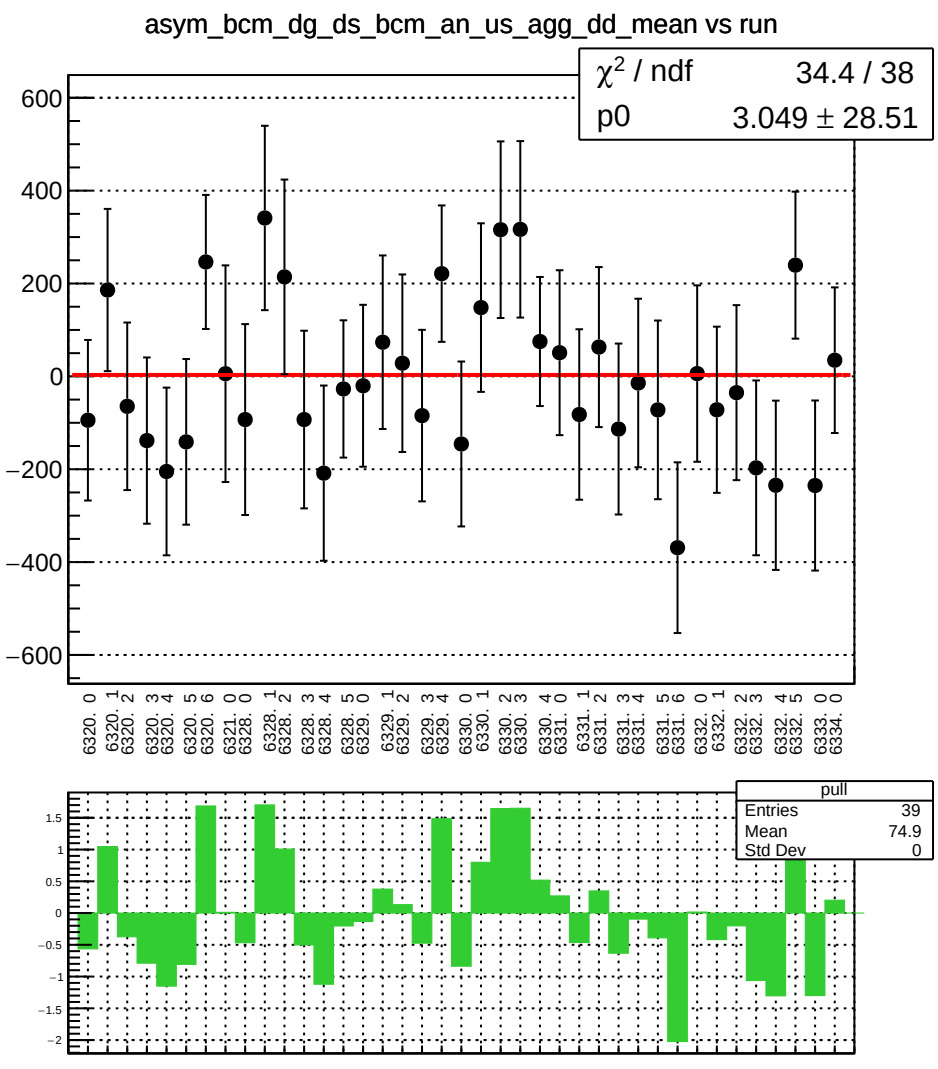

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 36.58 / 38
p0 −20.37 ± 35.67
600
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.12
Std Dev 31.42
1
0
−1
−2
−3

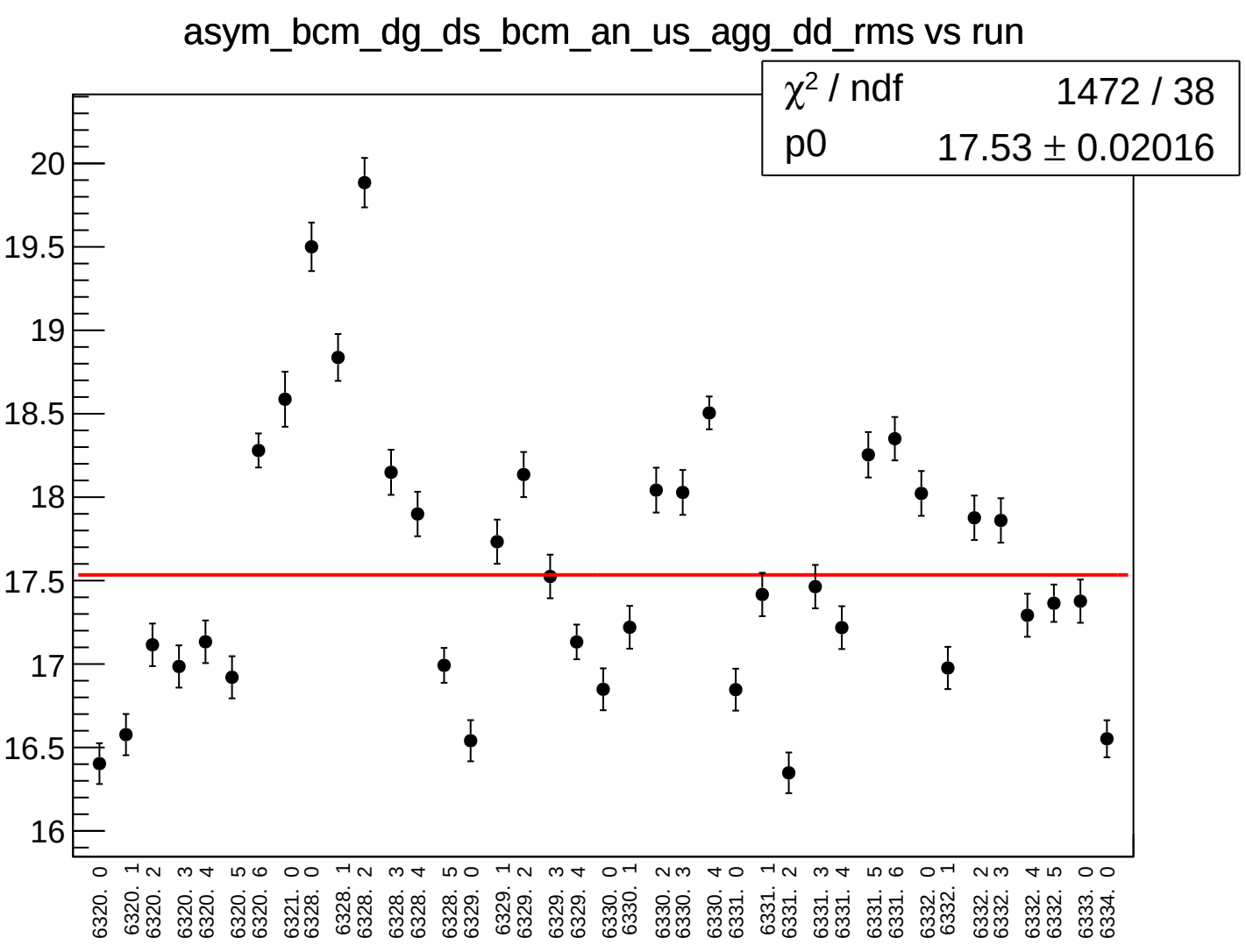

pull1D
Entries 39
Mean −0.01518
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

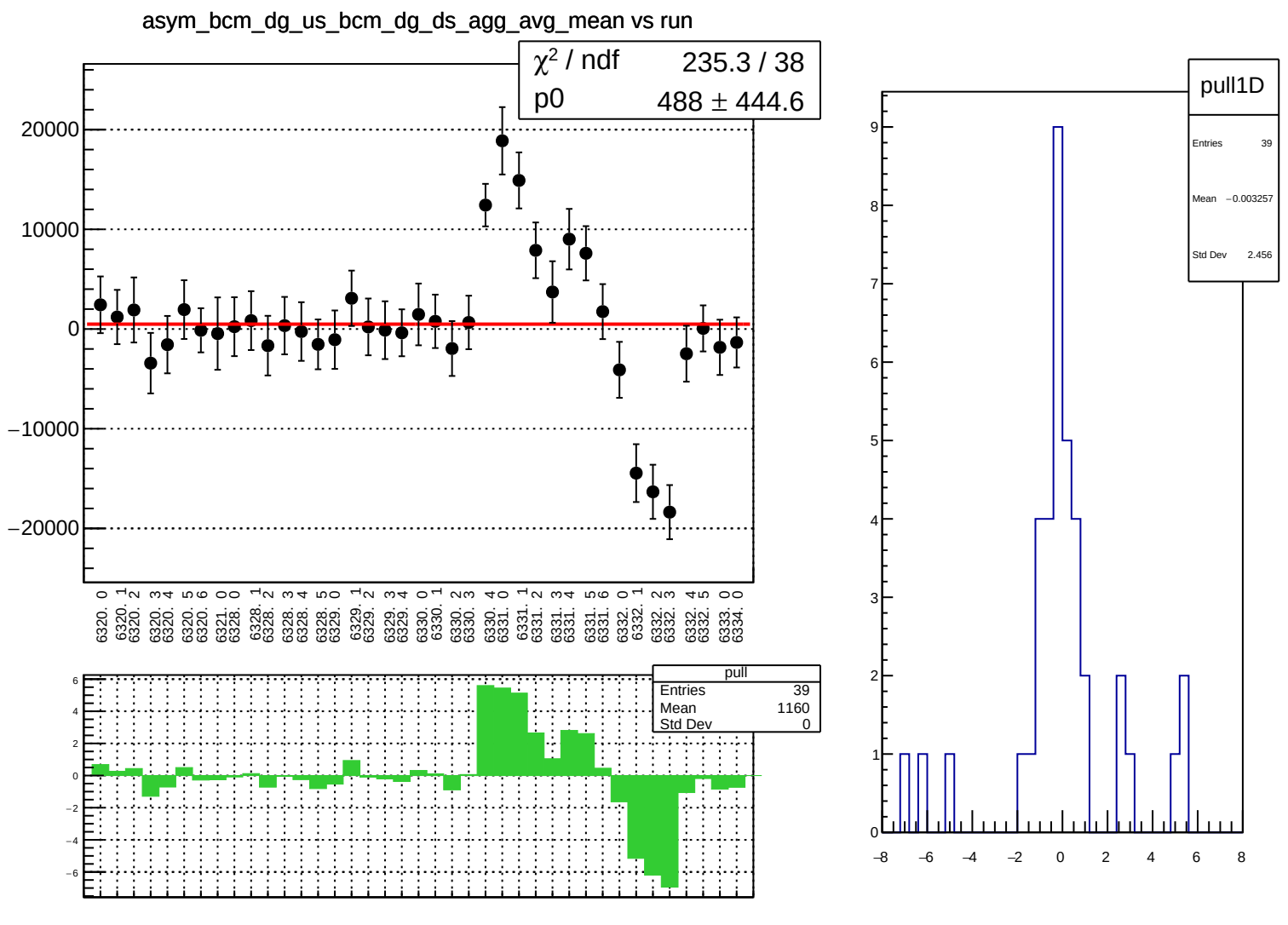

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 210.5 / 38
p0 21.96 ± 0.02522
23
22.5
22
21.5
21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

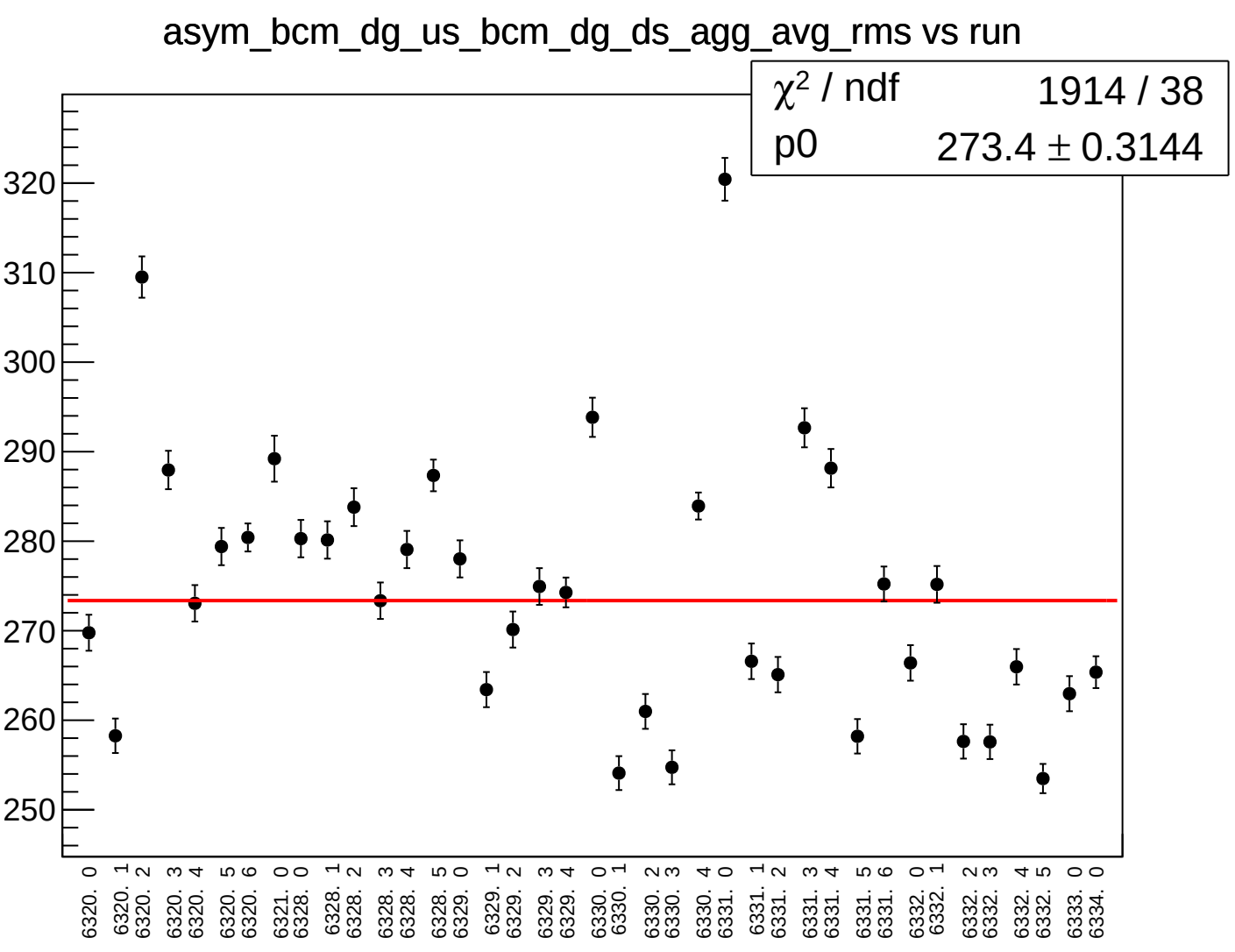

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 235.6 / 38
p0 513.7 ± 441.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1246
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.003007
Std Dev 2.458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

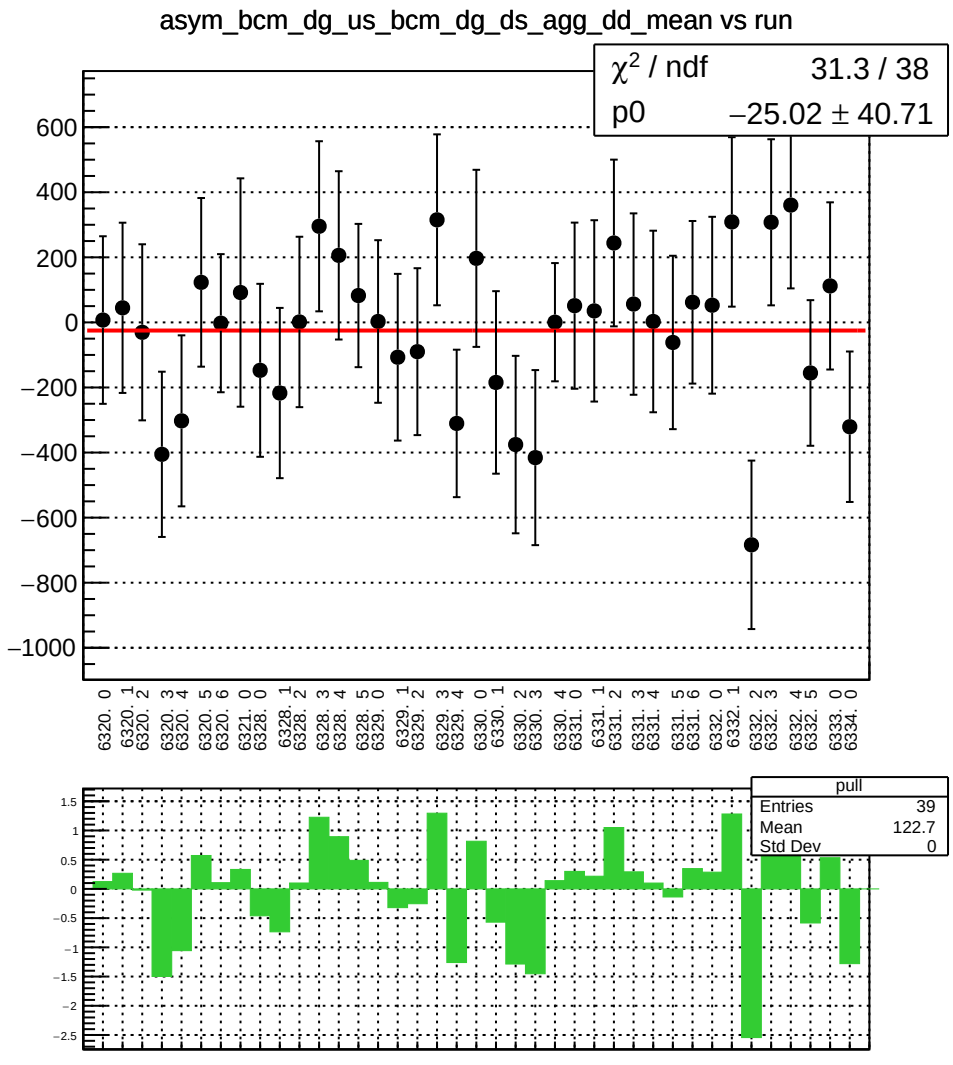

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1921 / 38
p0 271.4 ± 0.3121
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

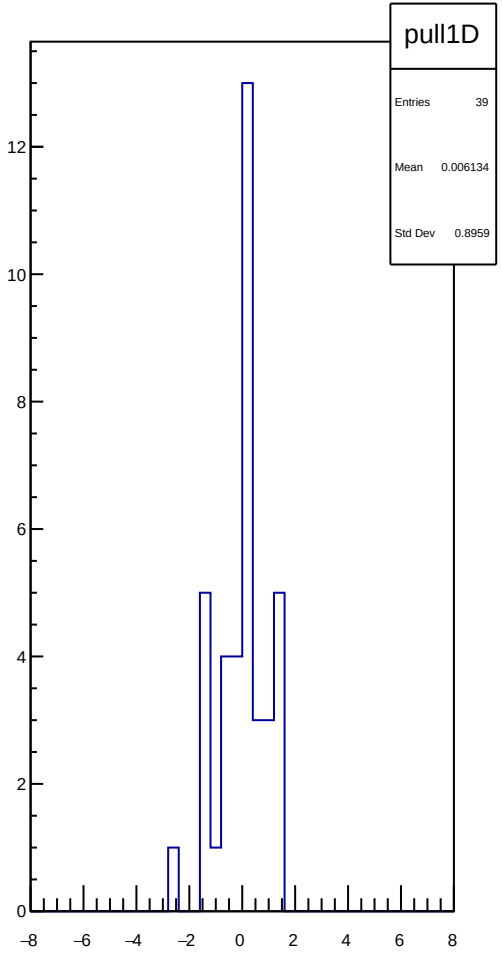

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 34.4 / 38
p0 3.049 ± 28.51
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02373
Std Dev 0.9389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

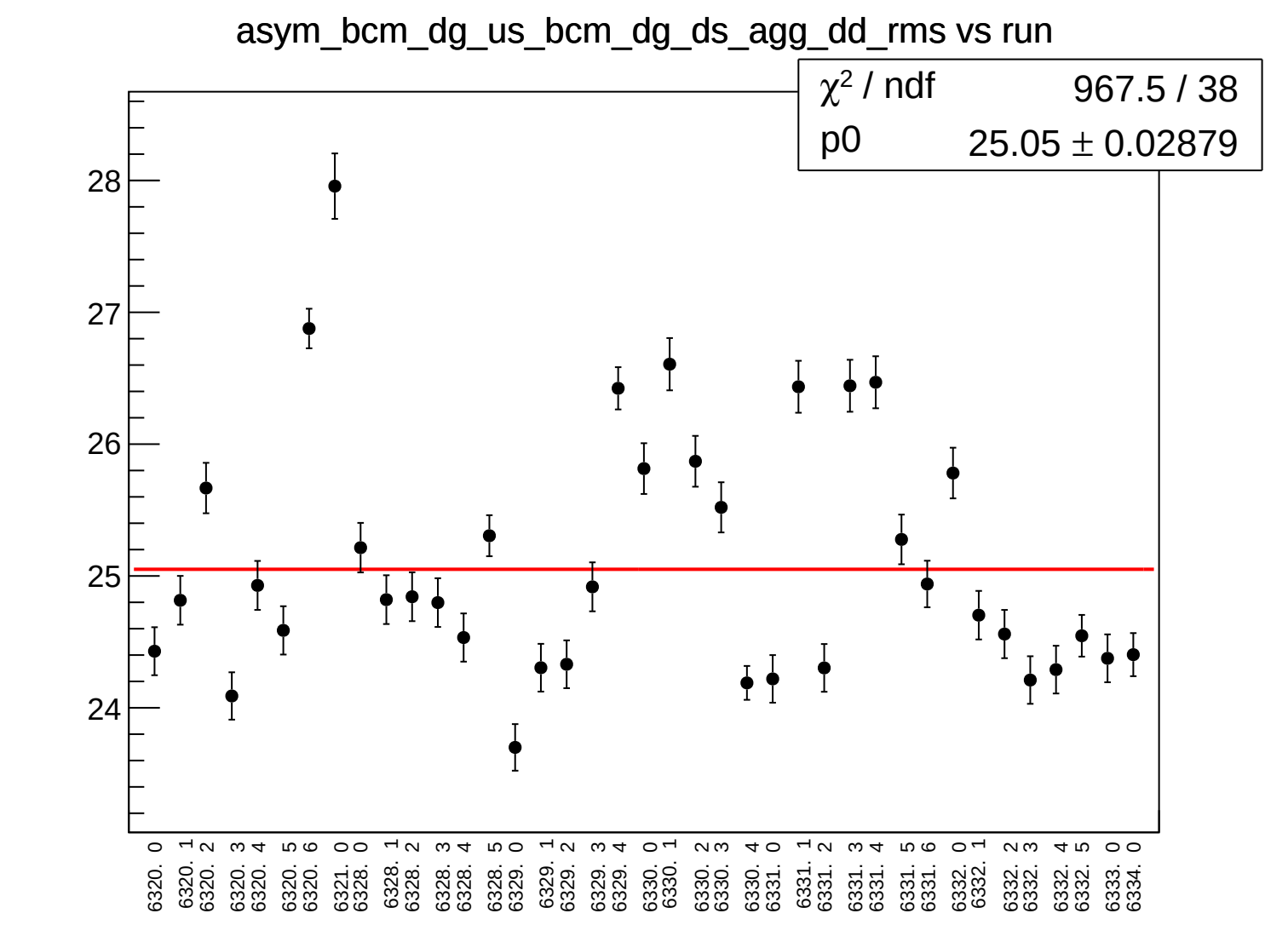

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1472 / 38
p0 17.53 ± 0.02016
20
19.5
19
18.5
18
17.5
17
16.5
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

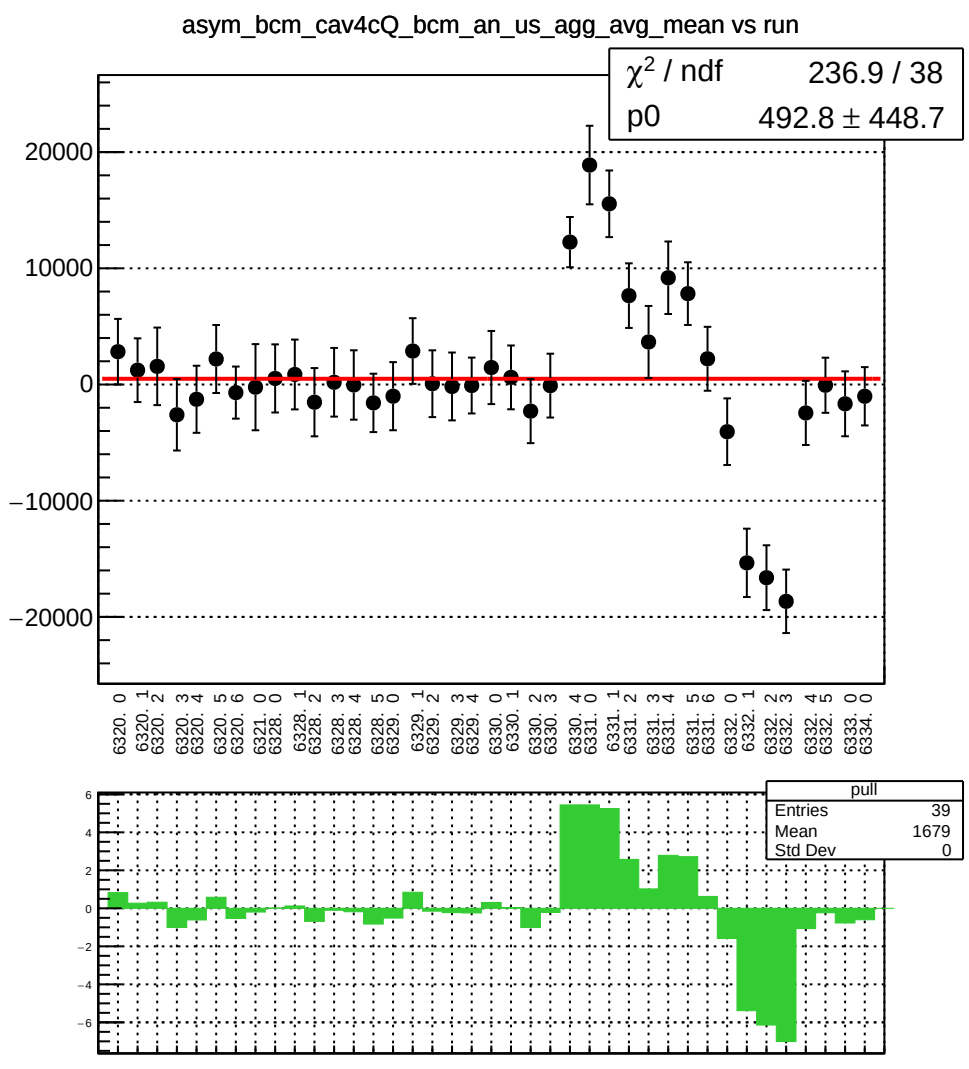

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 235.3 / 38
p0 488 ± 444.6
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1160
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.003257
Std Dev 2.456
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

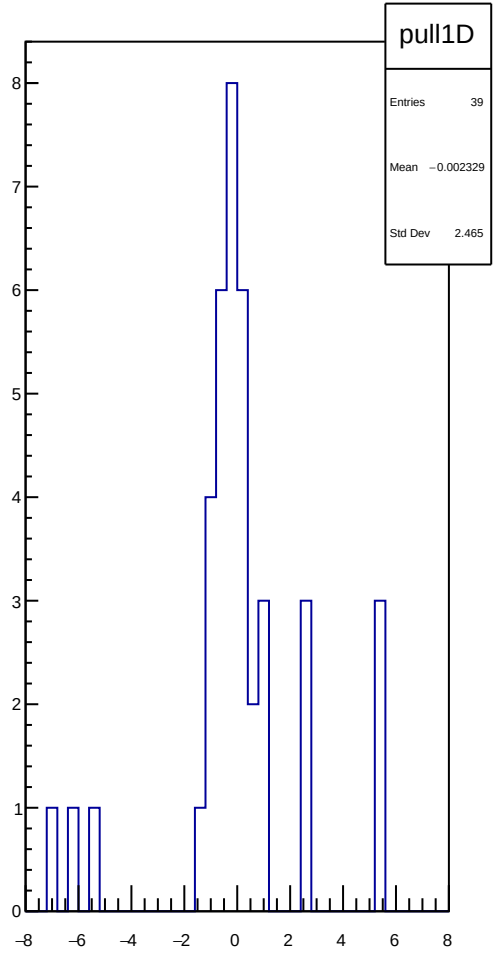

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1914 / 38
p0 273.4 ± 0.3144
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

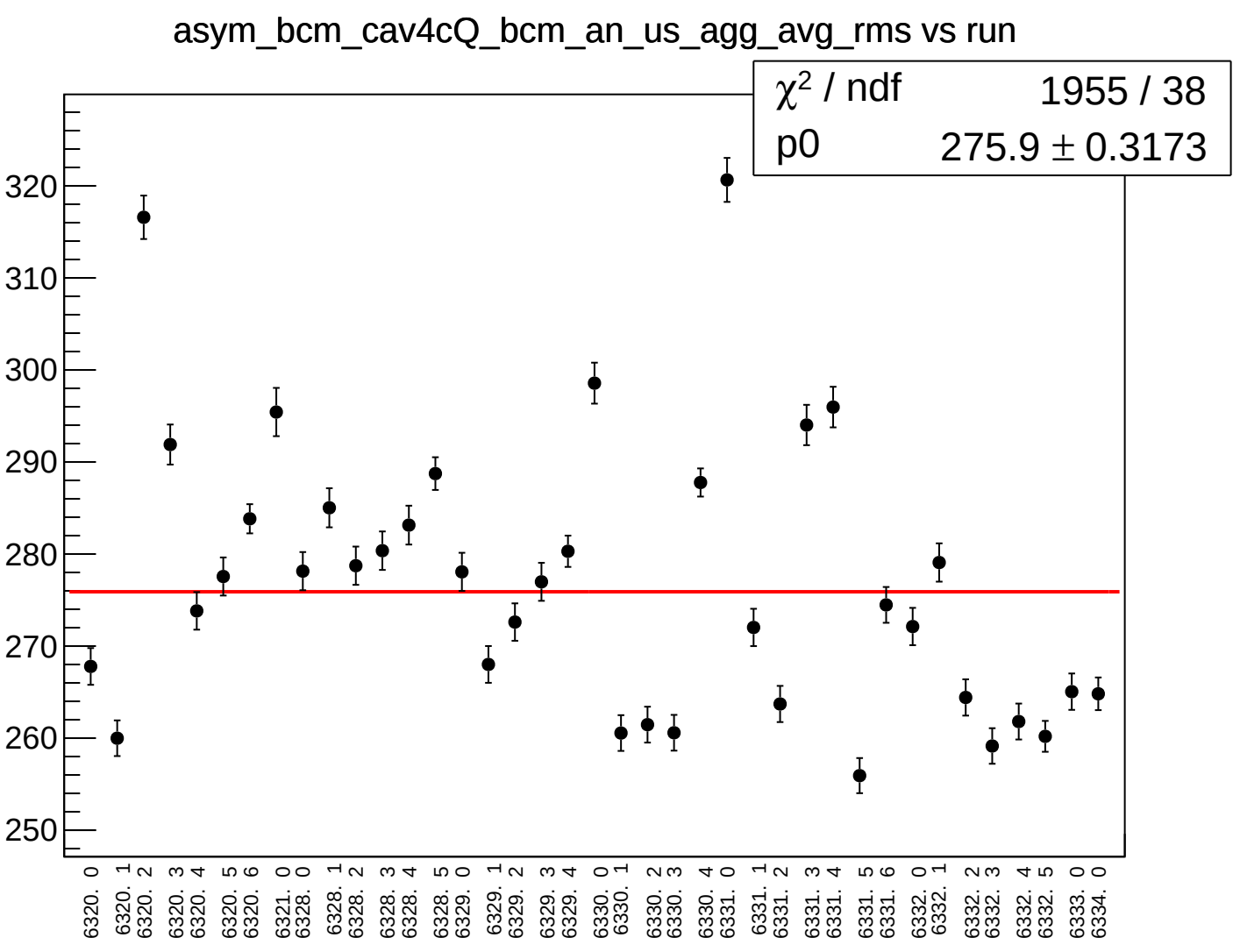

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 31.3 / 38
p0 −25.02 ± 40.71
600
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 122.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

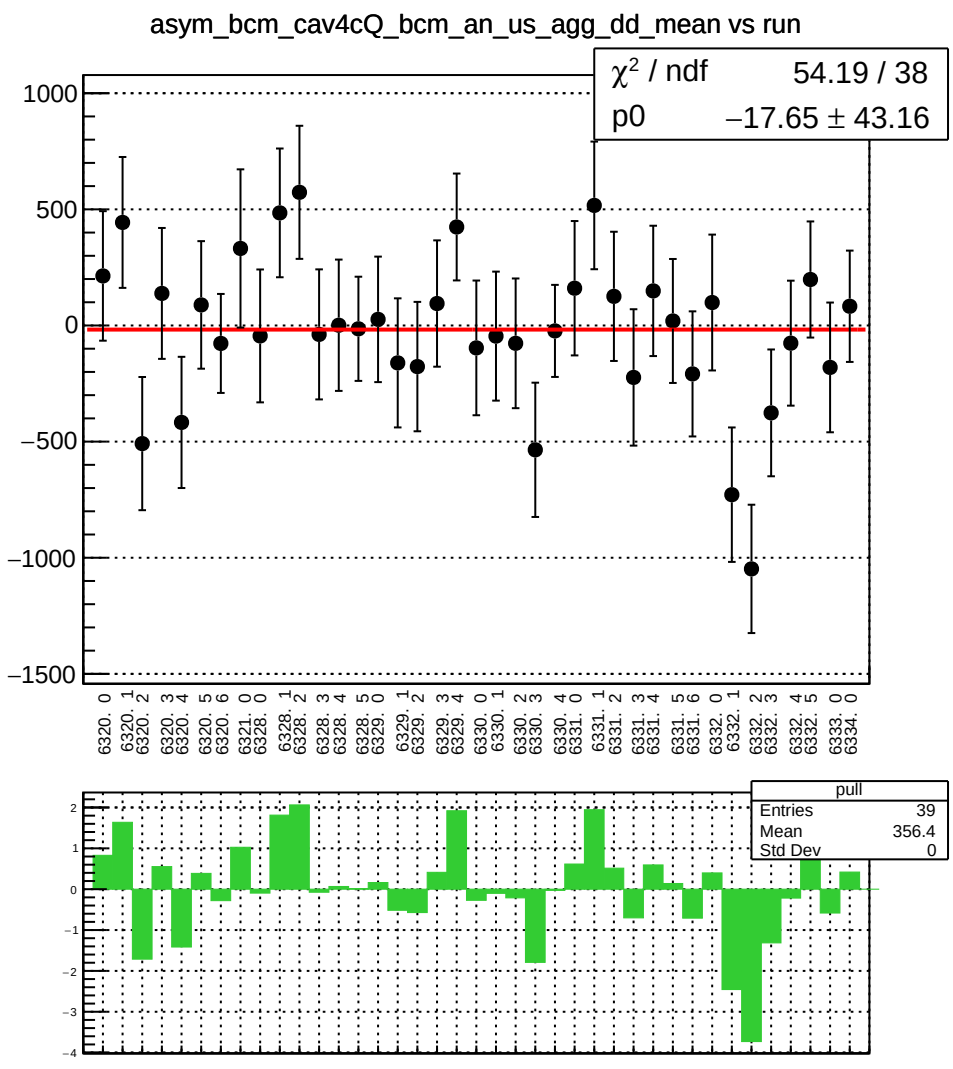

pull1D
Entries 39
Mean 0.006134
Std Dev 0.8959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

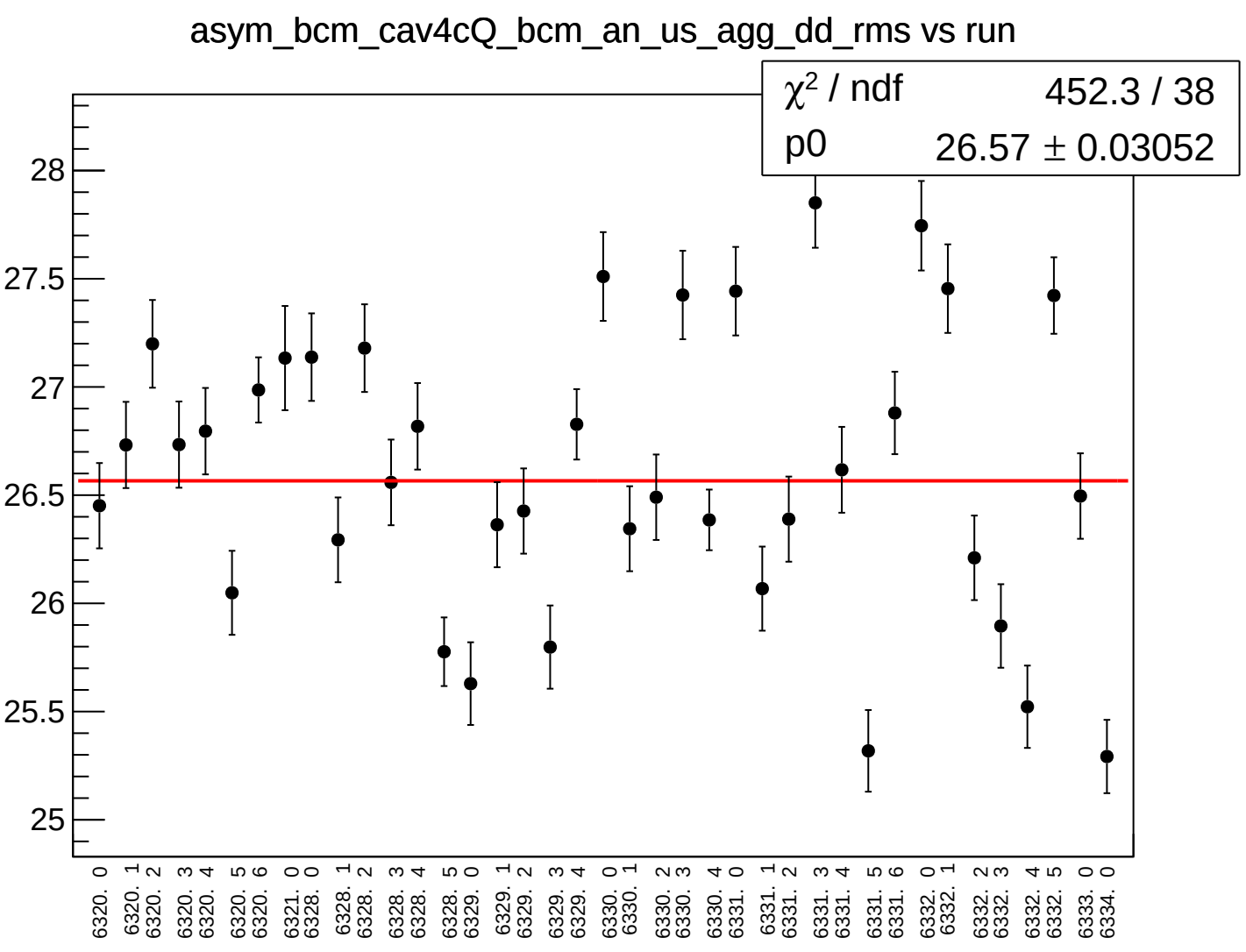

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 967.5 / 38
p0 25.05 ± 0.02879
28
27
26
25
24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

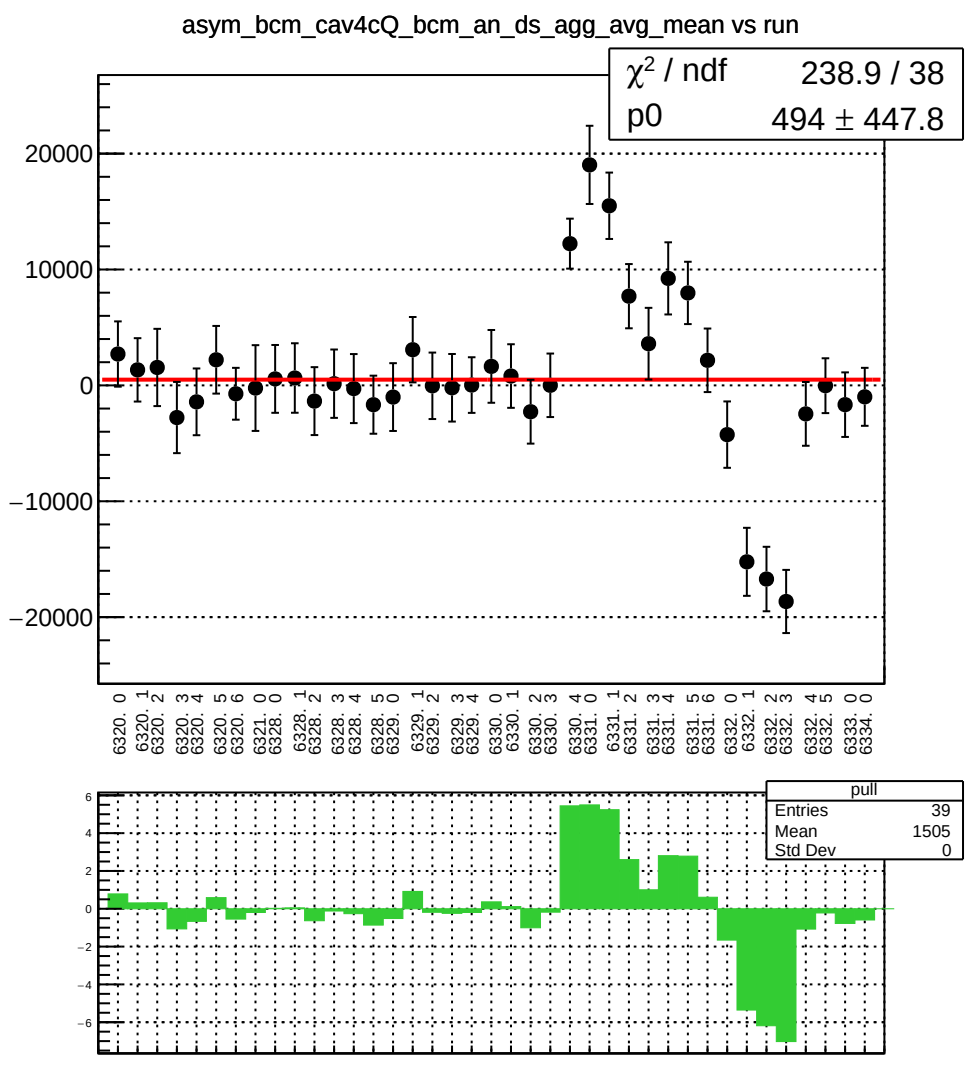

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 236.9 / 38
p0 492.8 ± 448.7
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1679
Std Dev 0
6
4
2
0
−2
−4
−6

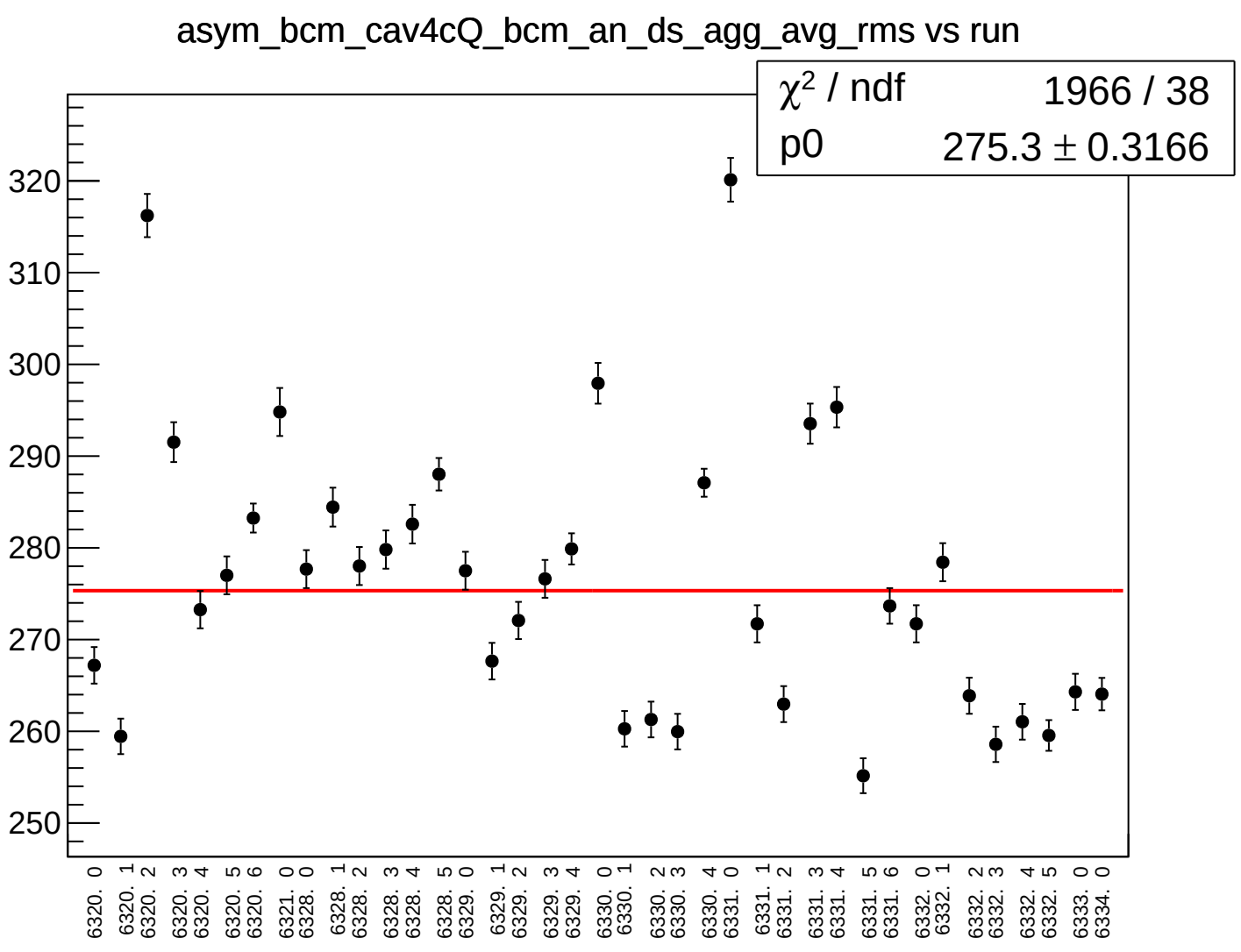

pull1D
Entries 39
Mean −0.002329
Std Dev 2.465
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

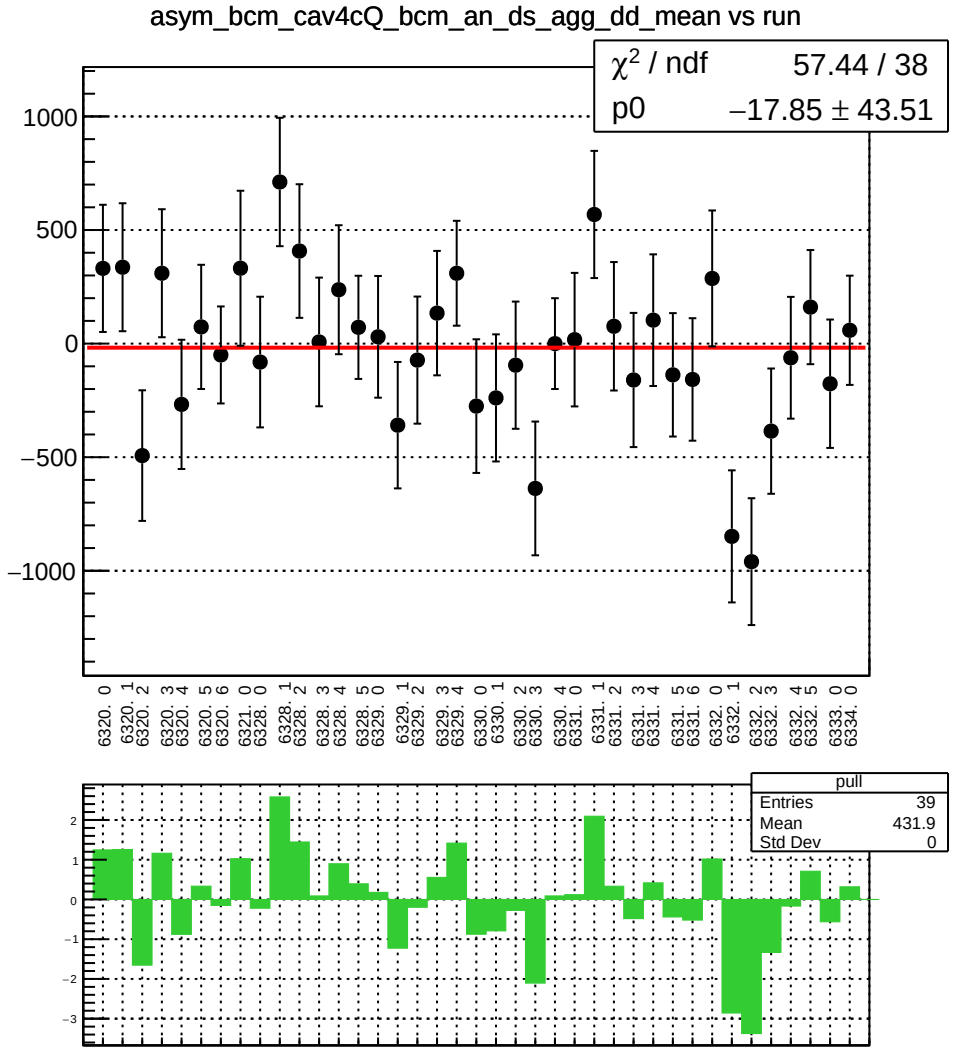

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1955 / 38
p0 275.9 ± 0.3173
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

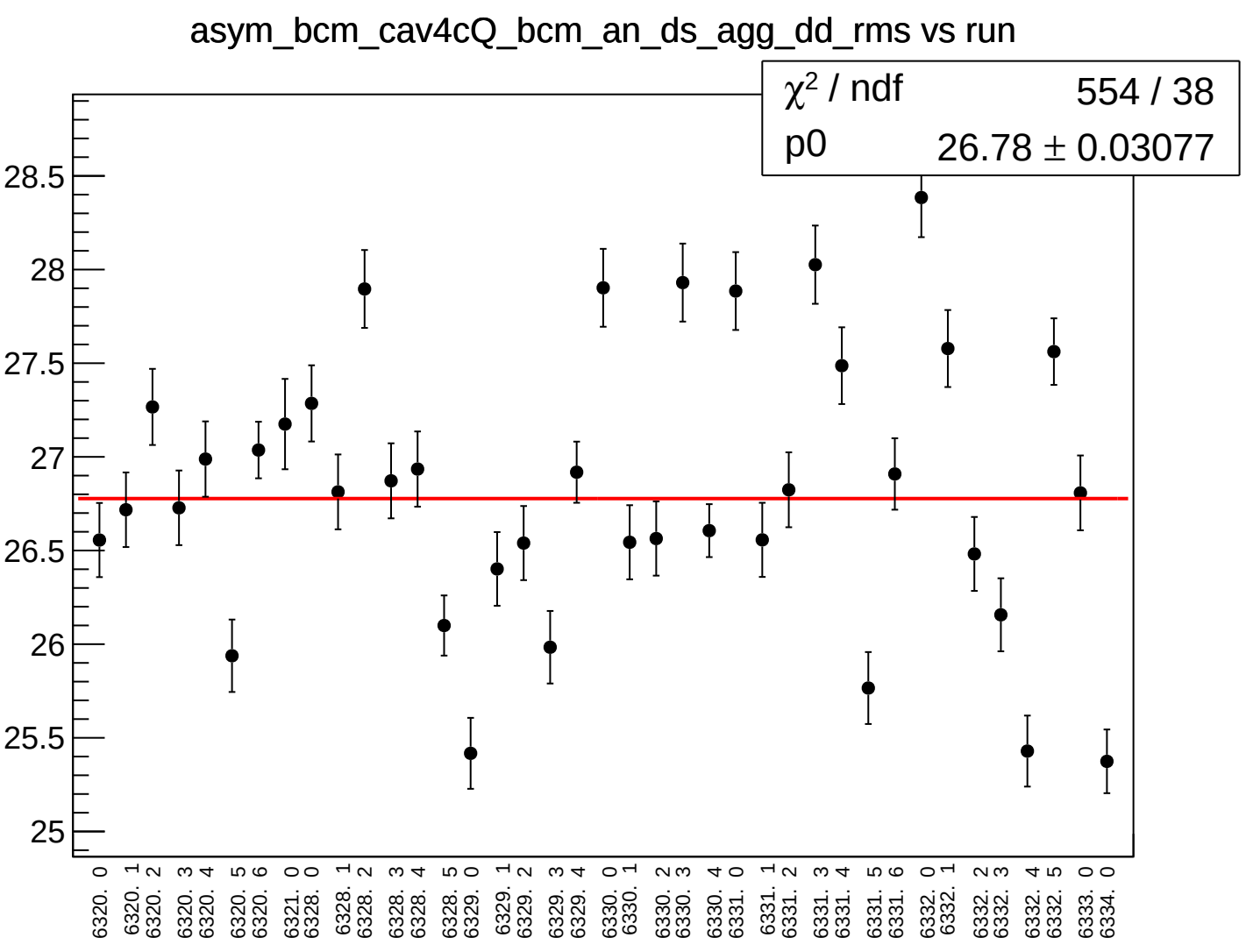

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 54.19 / 38
p0 −17.65 ± 43.16
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 356.4
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 39
Mean −0.0105
Std Dev 1.179
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

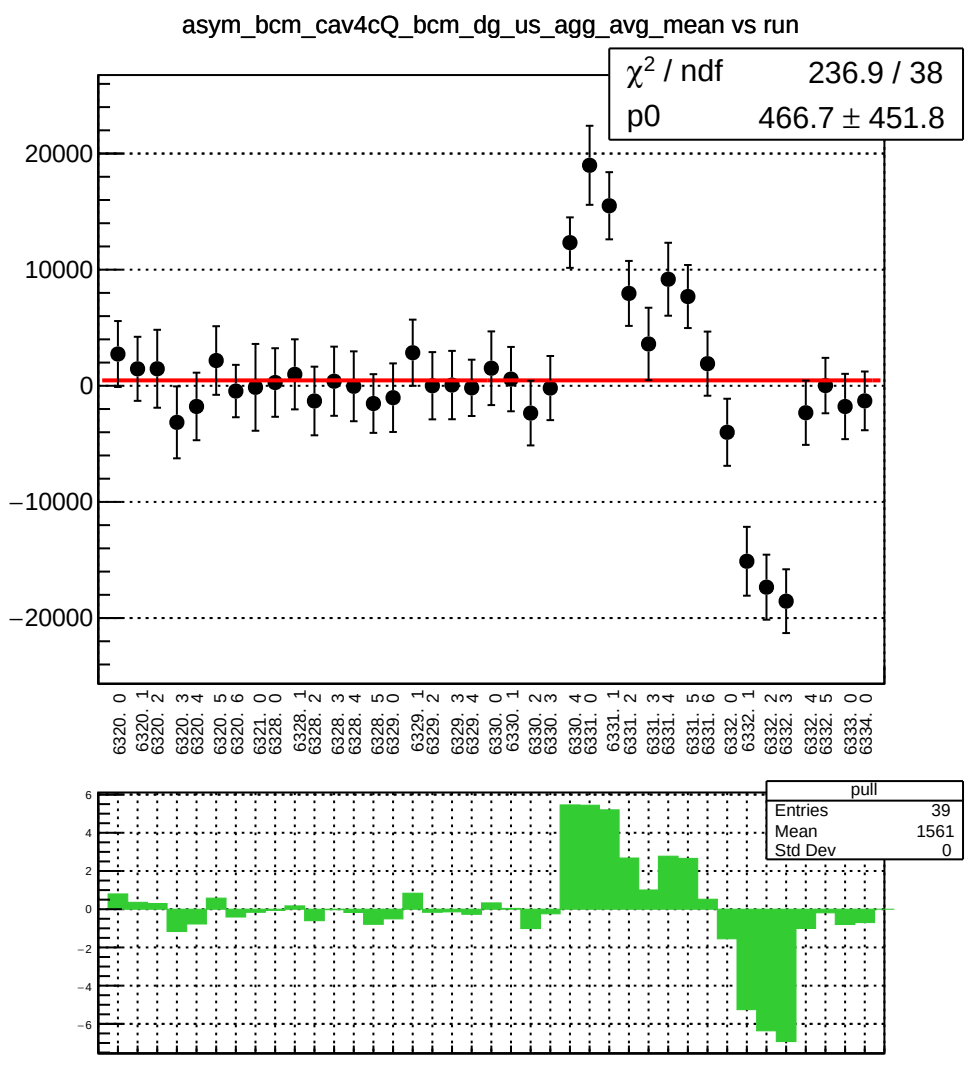

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 452.3 / 38
p0 26.57 ± 0.03052
28
27.5
27
26.5
26
25.5
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

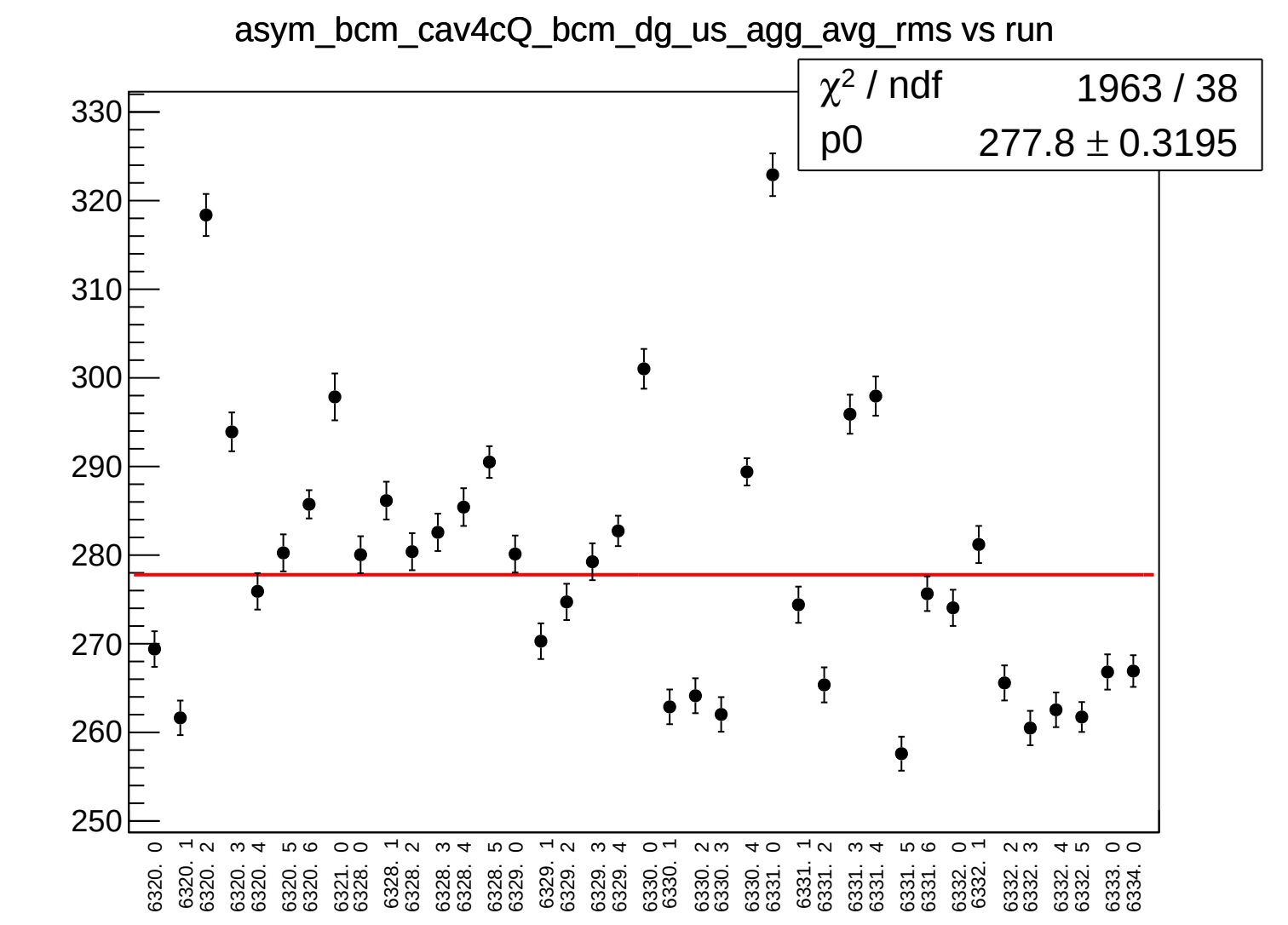

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 238.9 / 38
p0 494 ± 447.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1505
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.002553
Std Dev 2.475
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

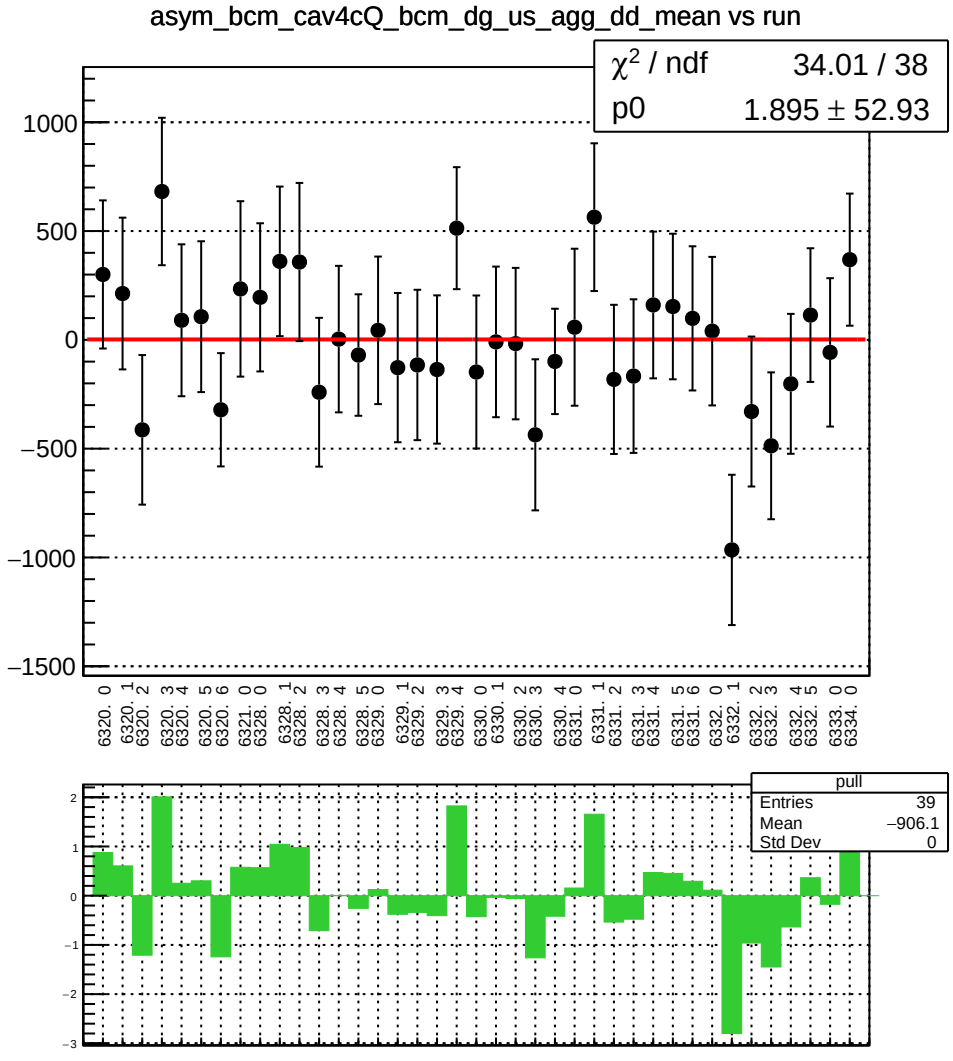

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1966 / 38
p0 275.3 ± 0.3166
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

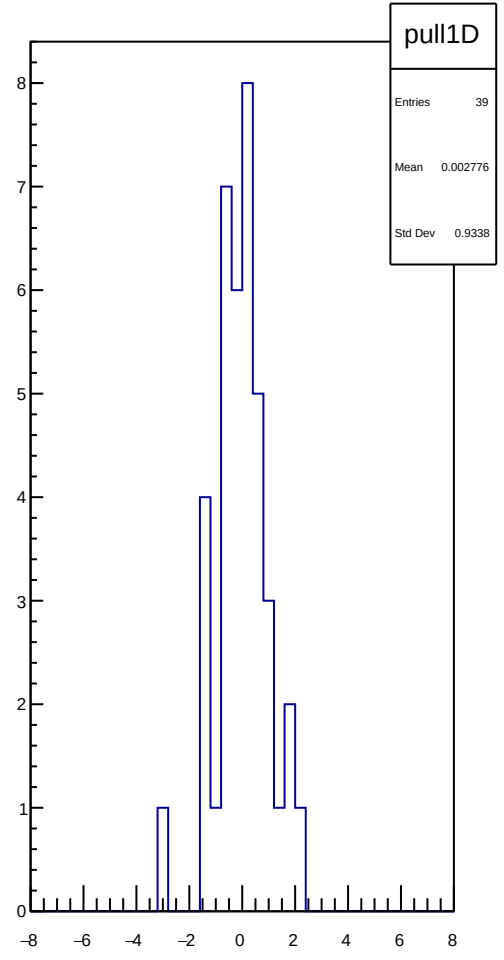

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.44 / 38
p0 −17.85 ± 43.51
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 431.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01064
Std Dev 1.214
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

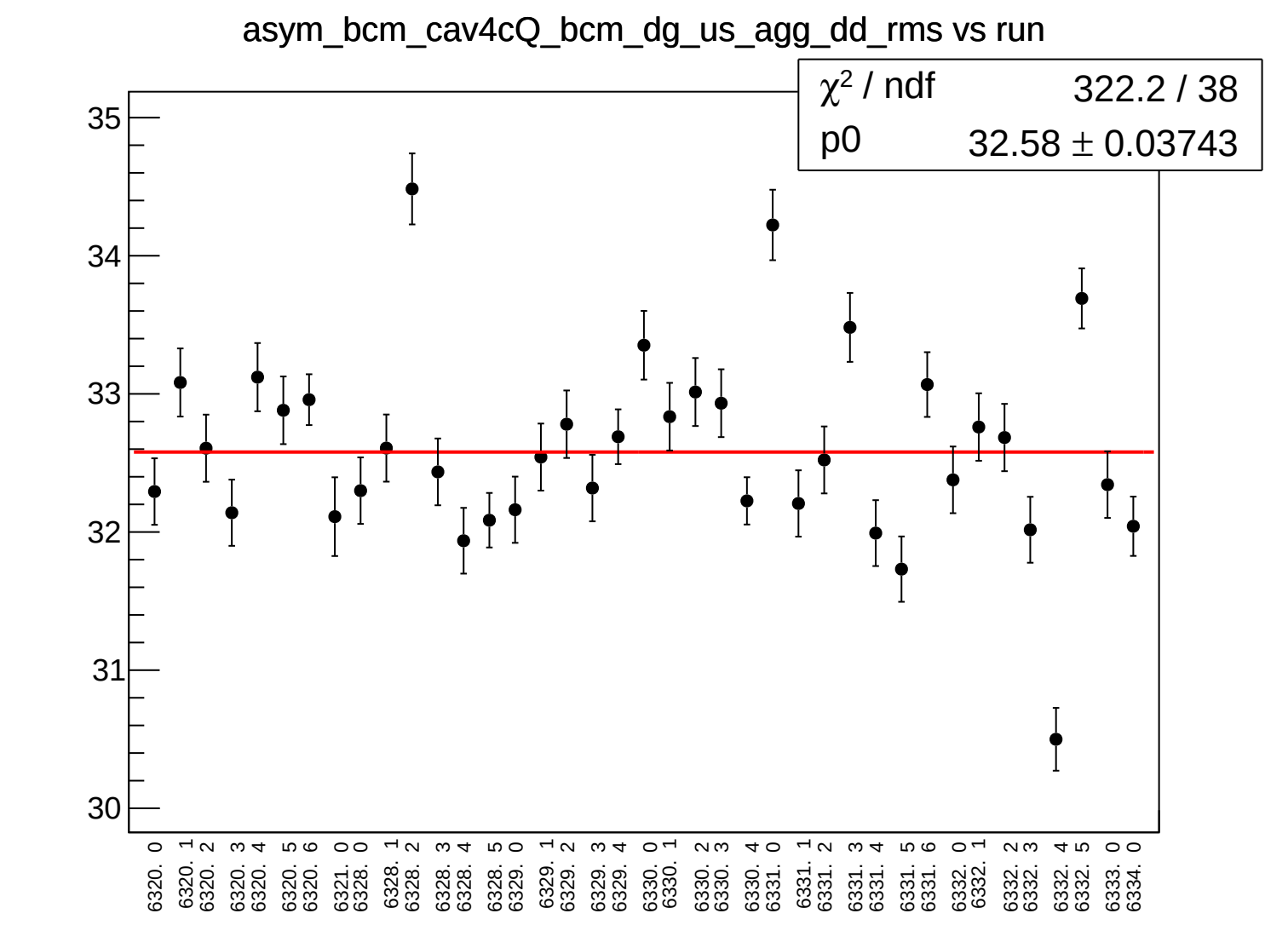

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 554 / 38
p0 26.78 ± 0.03077
28.5
28
27.5
27
26.5
26
25.5
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

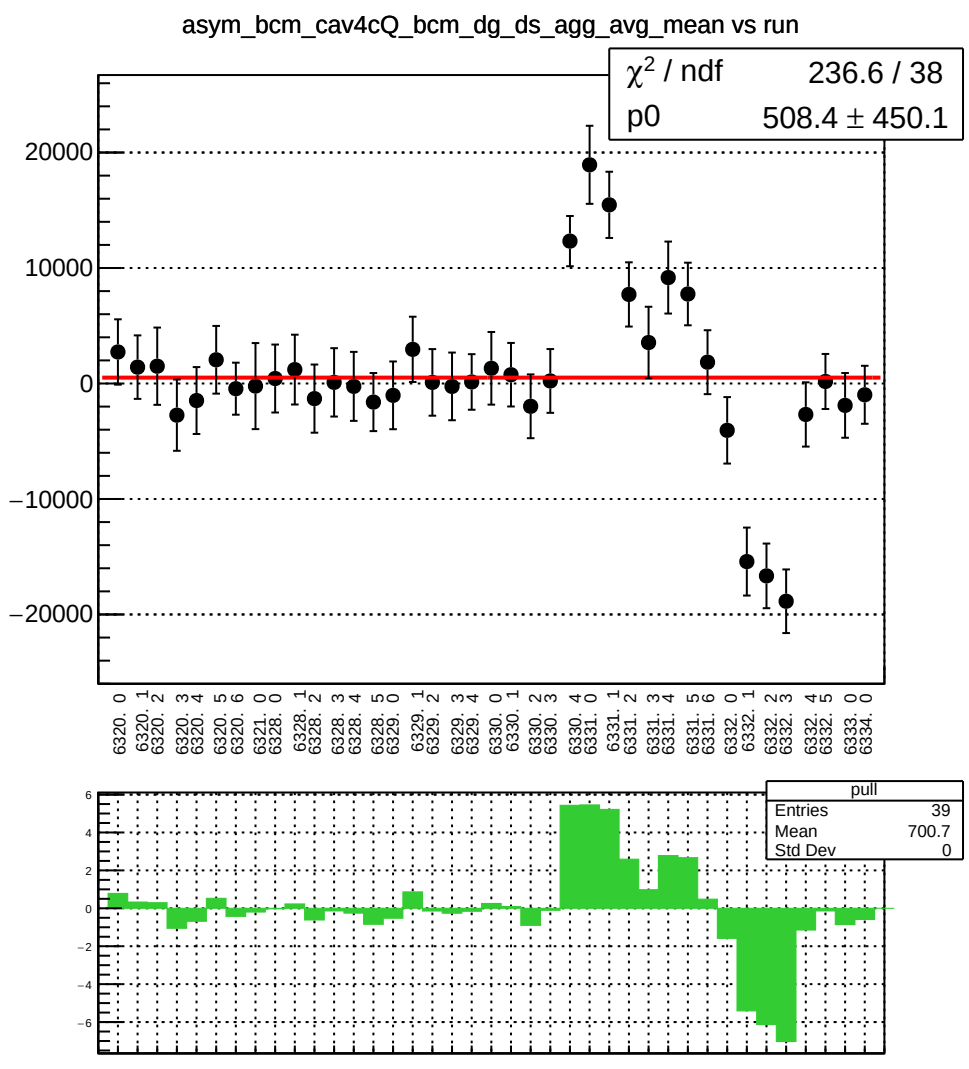

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 236.9 / 38
p0 466.7 ± 451.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1561
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.002527
Std Dev 2.465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

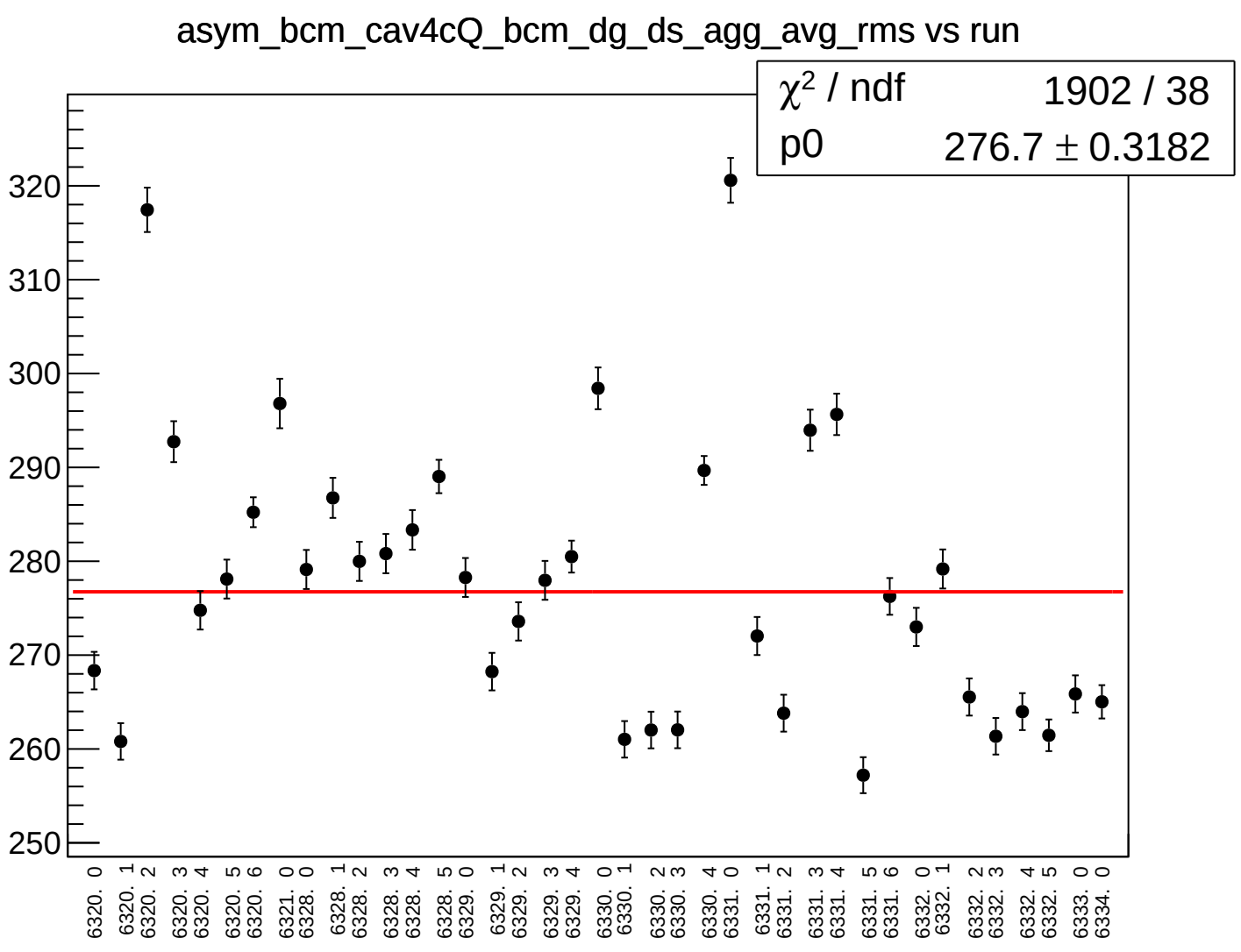

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1963 / 38
p0 277.8 ± 0.3195
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

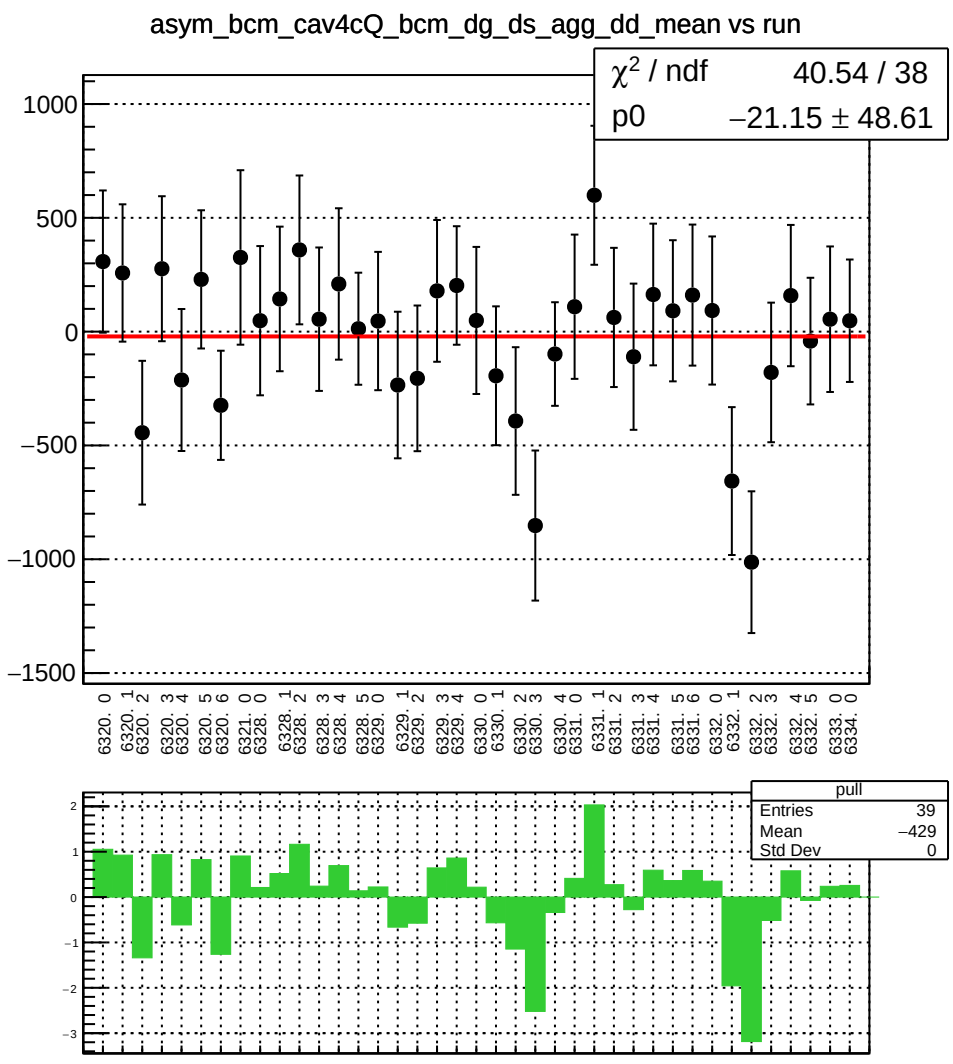

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 34.01 / 38
p0 1.895 ± 52.93
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −906.1
Std Dev 0
2
1
0
−1
−2
−3

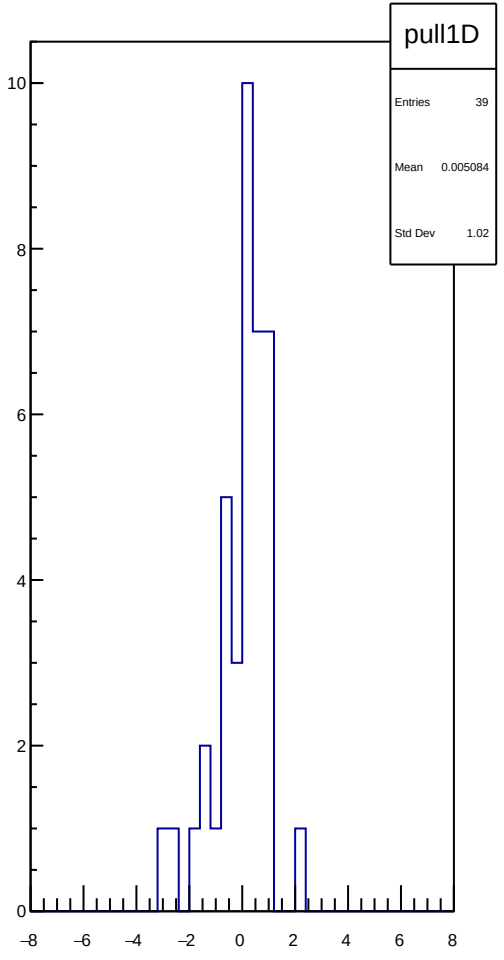

pull1D
Entries 39
Mean 0.002776
Std Dev 0.9338
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

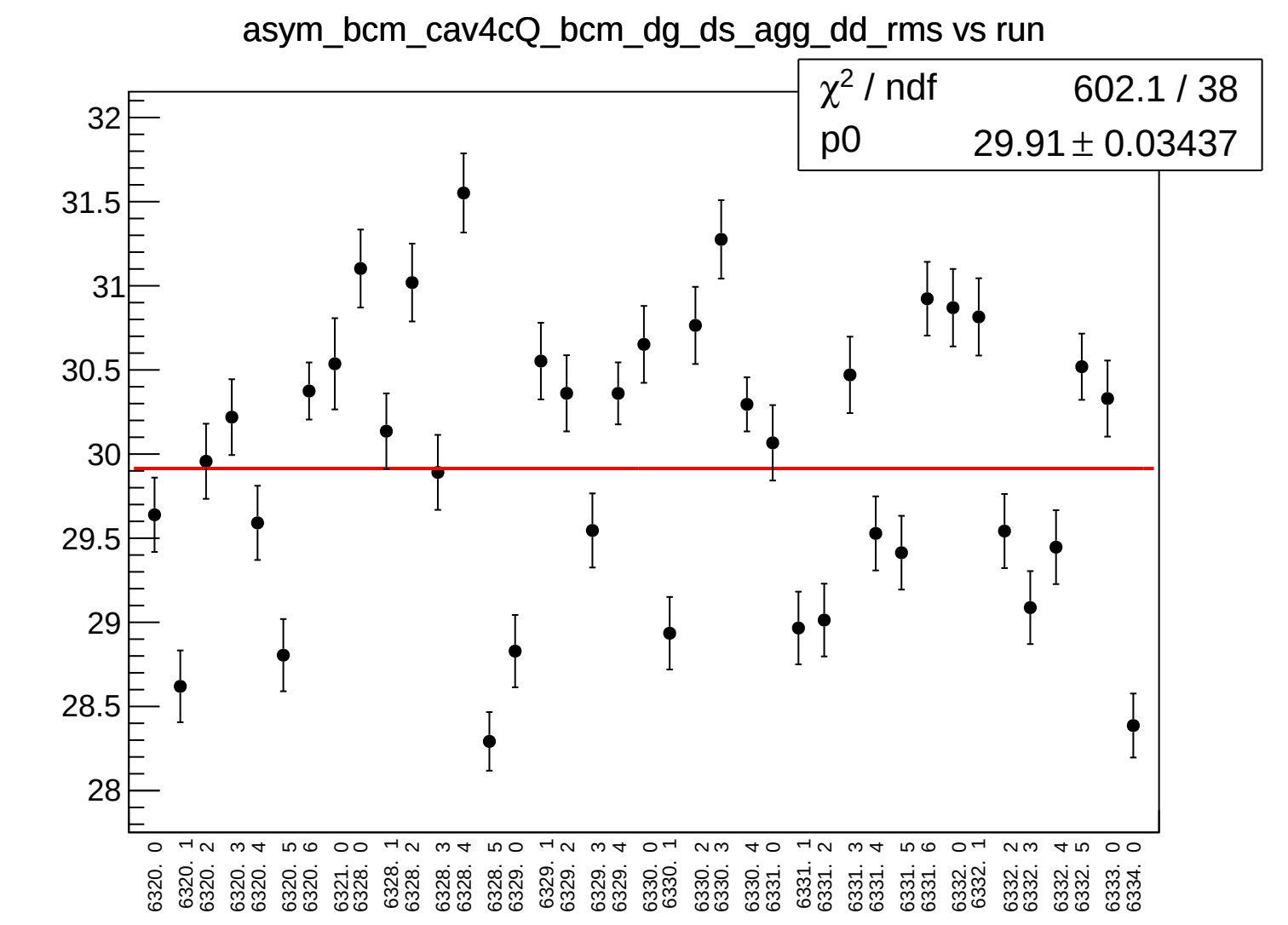

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 322.2 / 38
p0 32.58 ± 0.03743
35
34
33
32
31
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

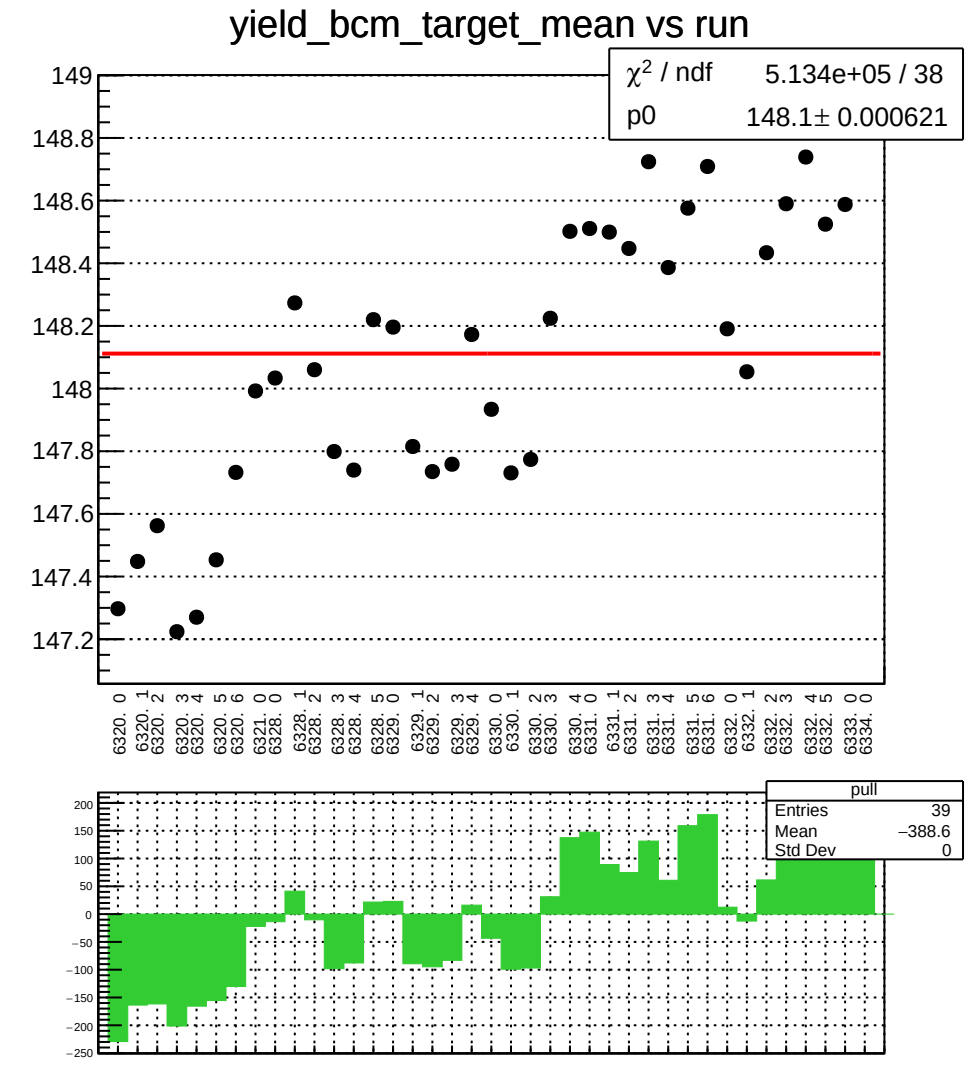

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 236.6 / 38
p0 508.4 ± 450.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 700.7
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.00577
Std Dev 2.463
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

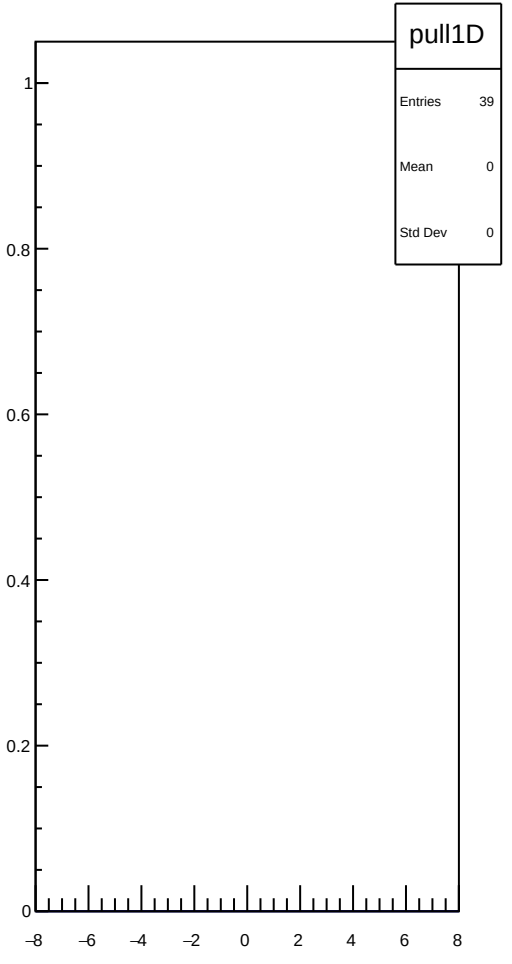

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1902 / 38
p0 276.7 ± 0.3182
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

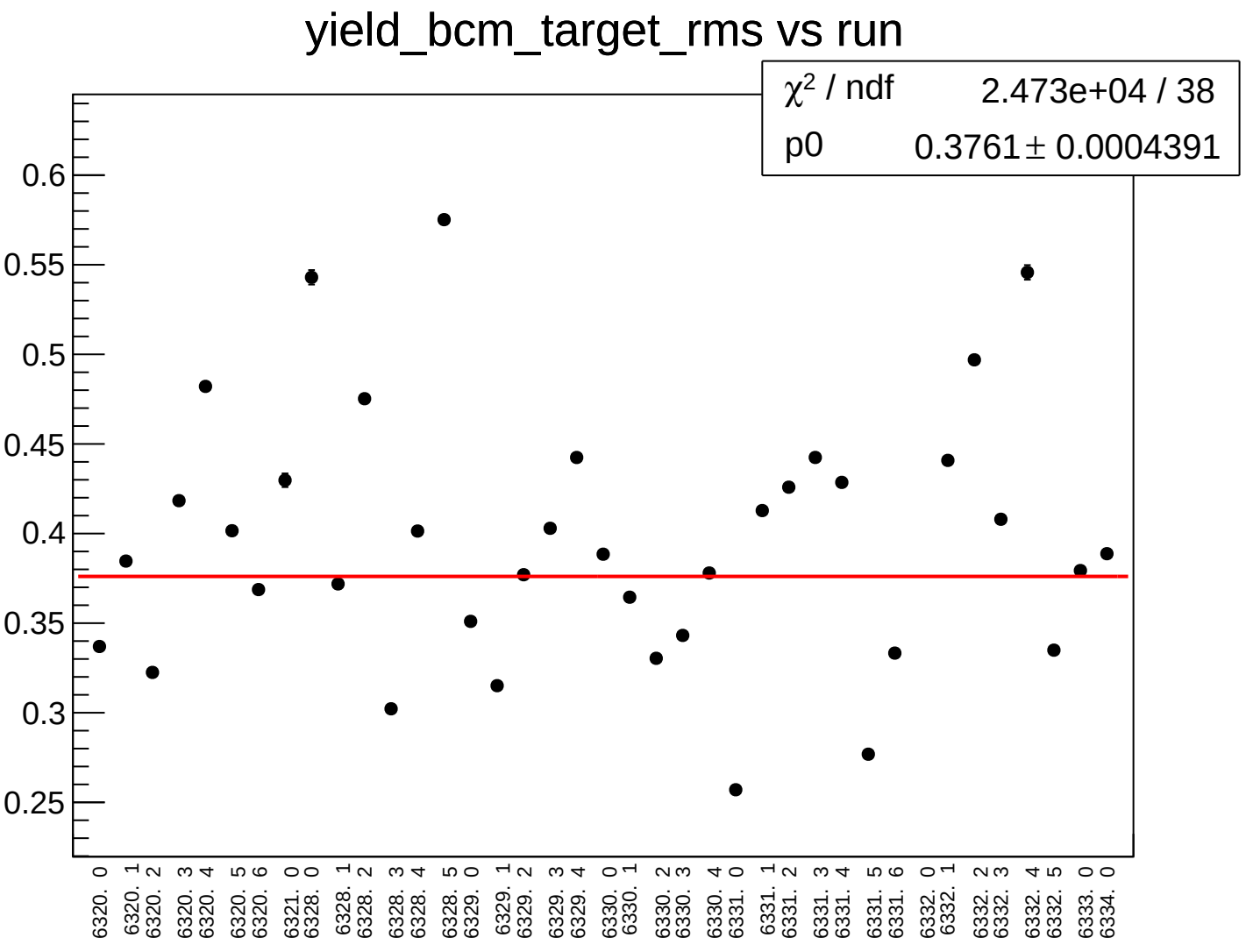

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 40.54 / 38
p0 −21.15 ± 48.61
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −429
Std Dev 0
2
1
0
−1
−2
−3

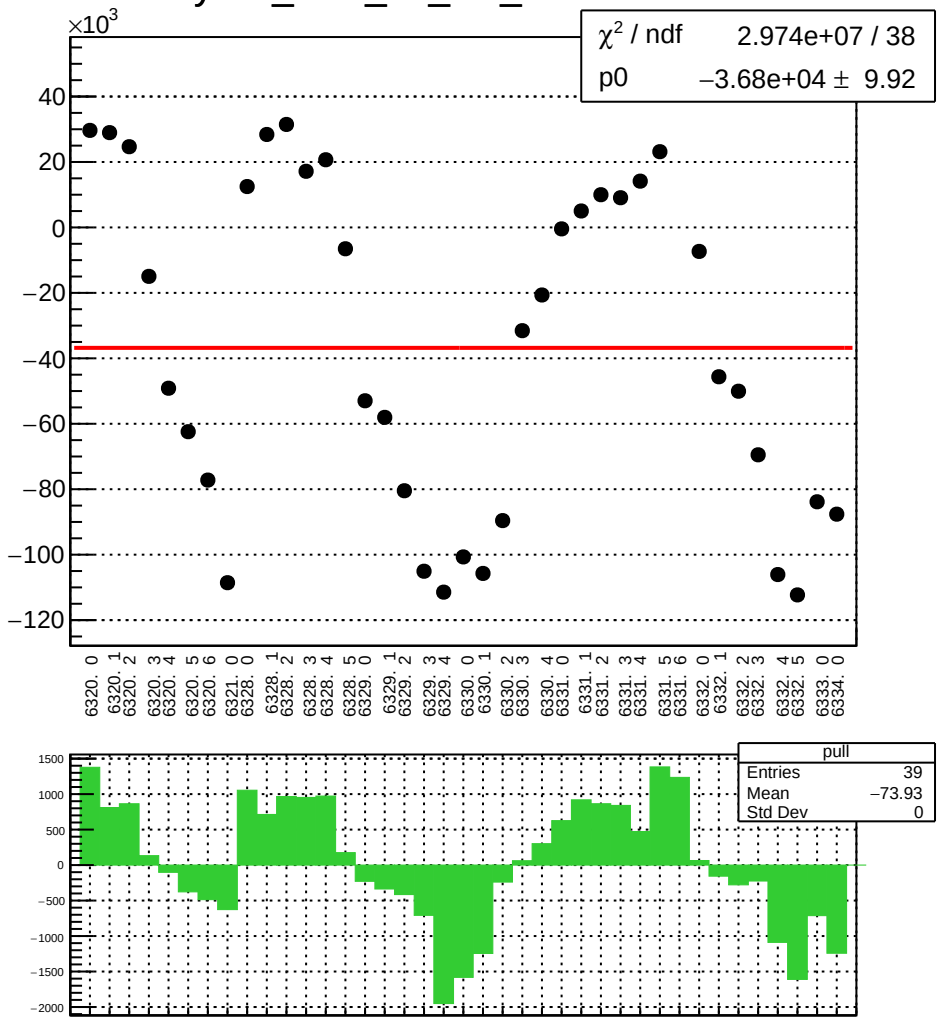

pull1D
Entries 39
Mean 0.005084
Std Dev 1.02
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

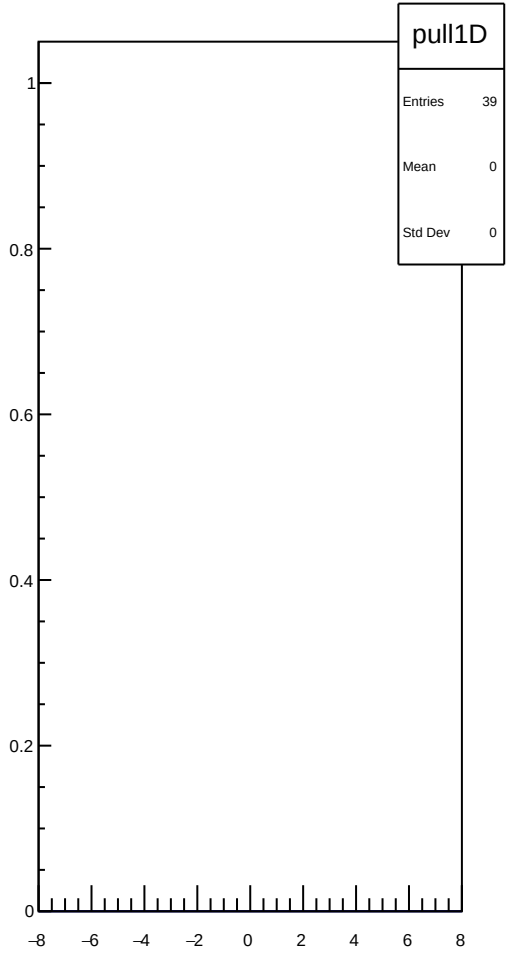

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 602.1 / 38
p0 29.91 ± 0.03437
32
31.5
31
30.5
30
29.5
29
28.5
28
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

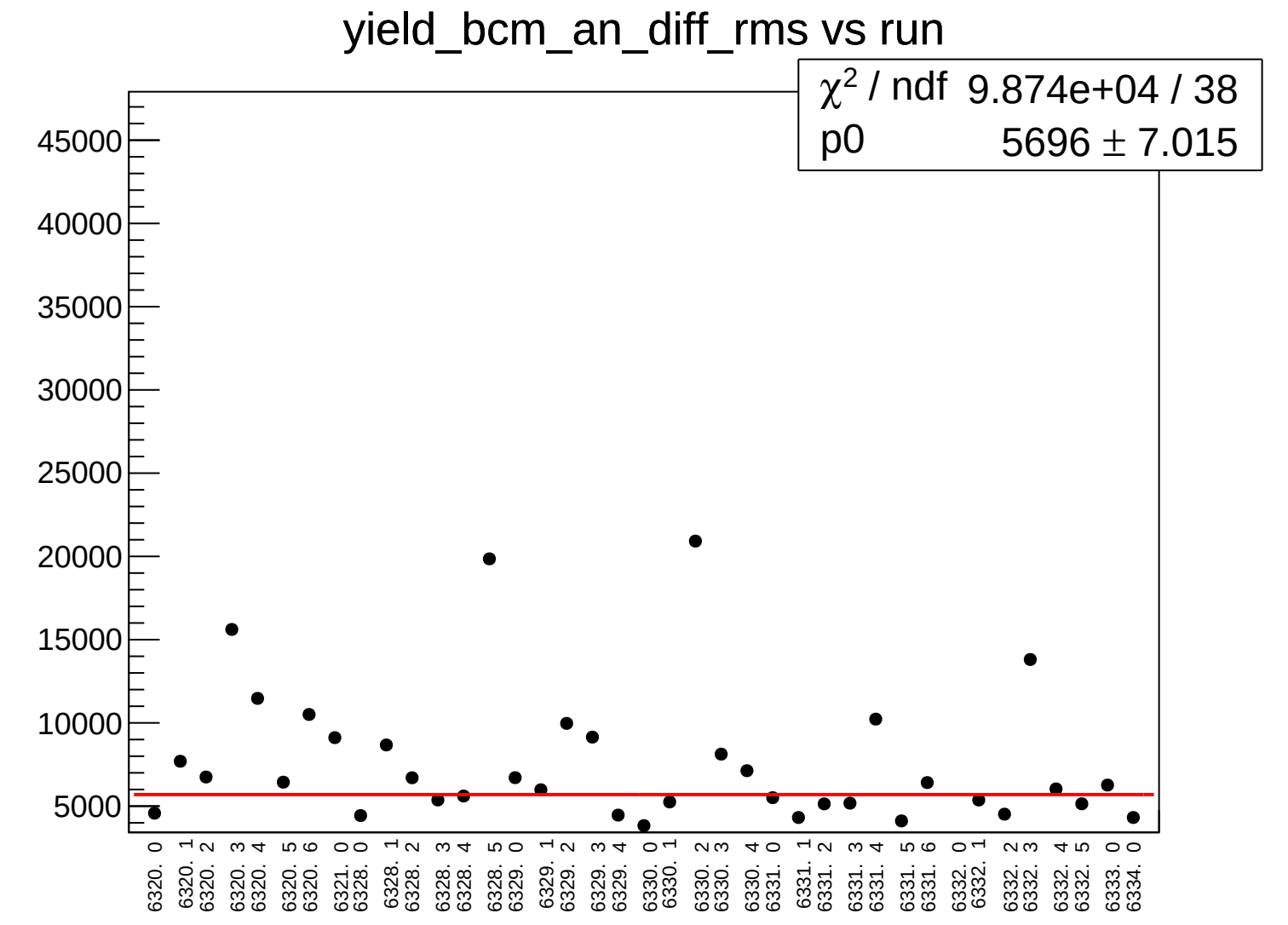

yield_bcm_target_mean vs run
χ² / ndf 5.134e+05 / 38
p0 148.1± 0.000621
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −388.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

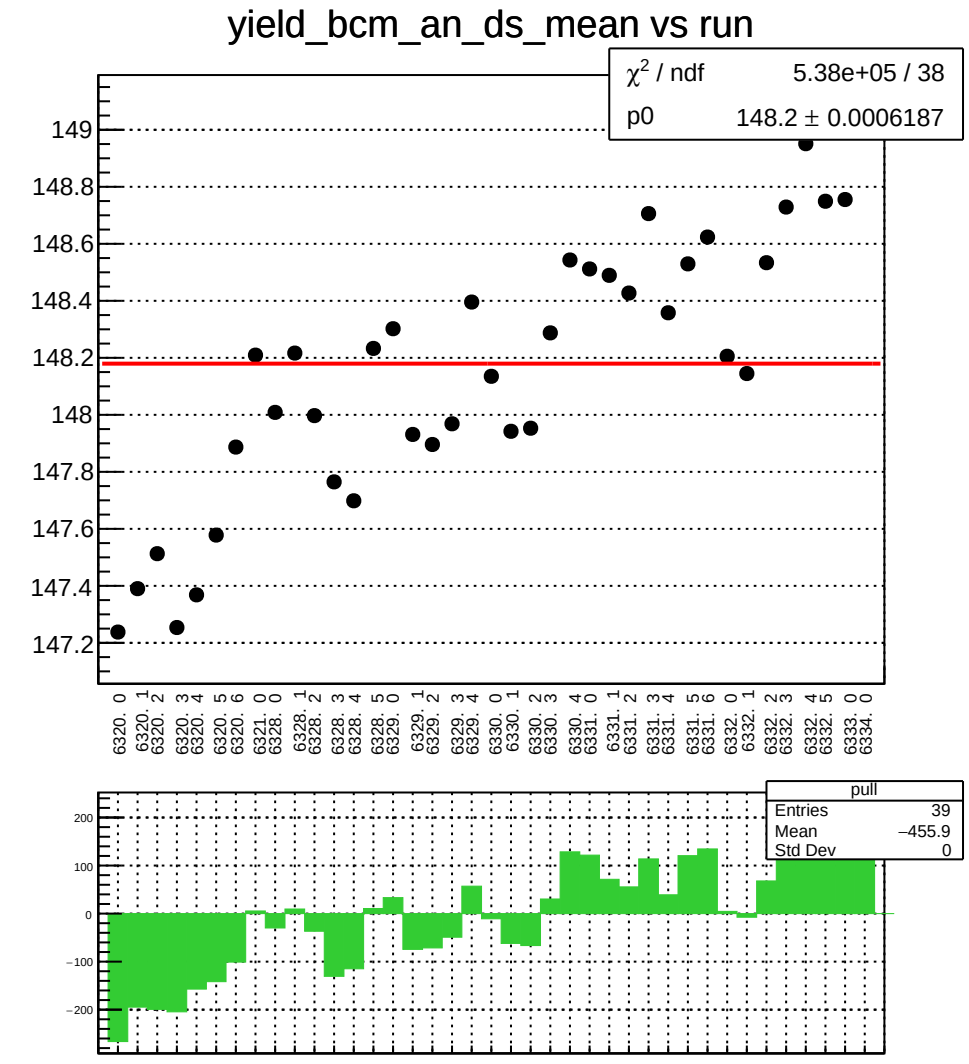

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

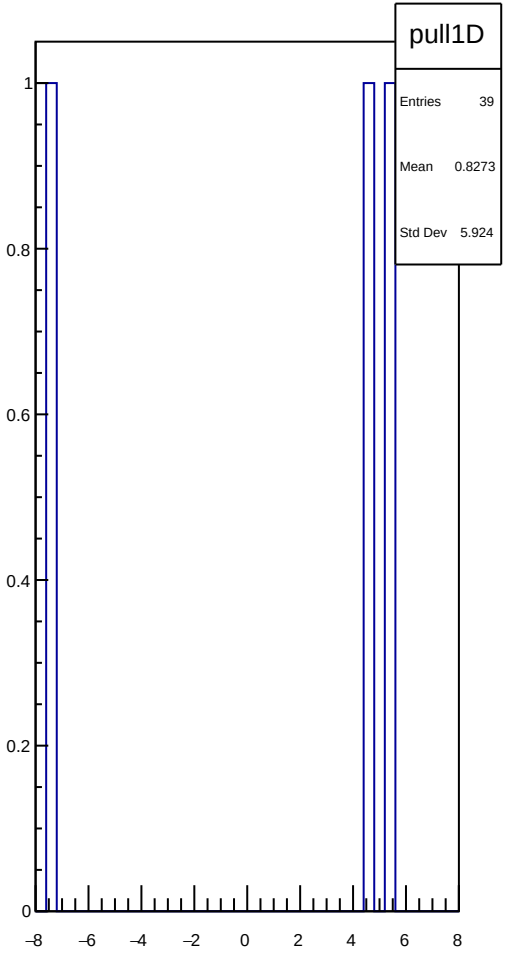

yield_bcm_target_rms vs run
χ² / ndf 2.473e+04 / 38
p0 0.3761 ± 0.0004391
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

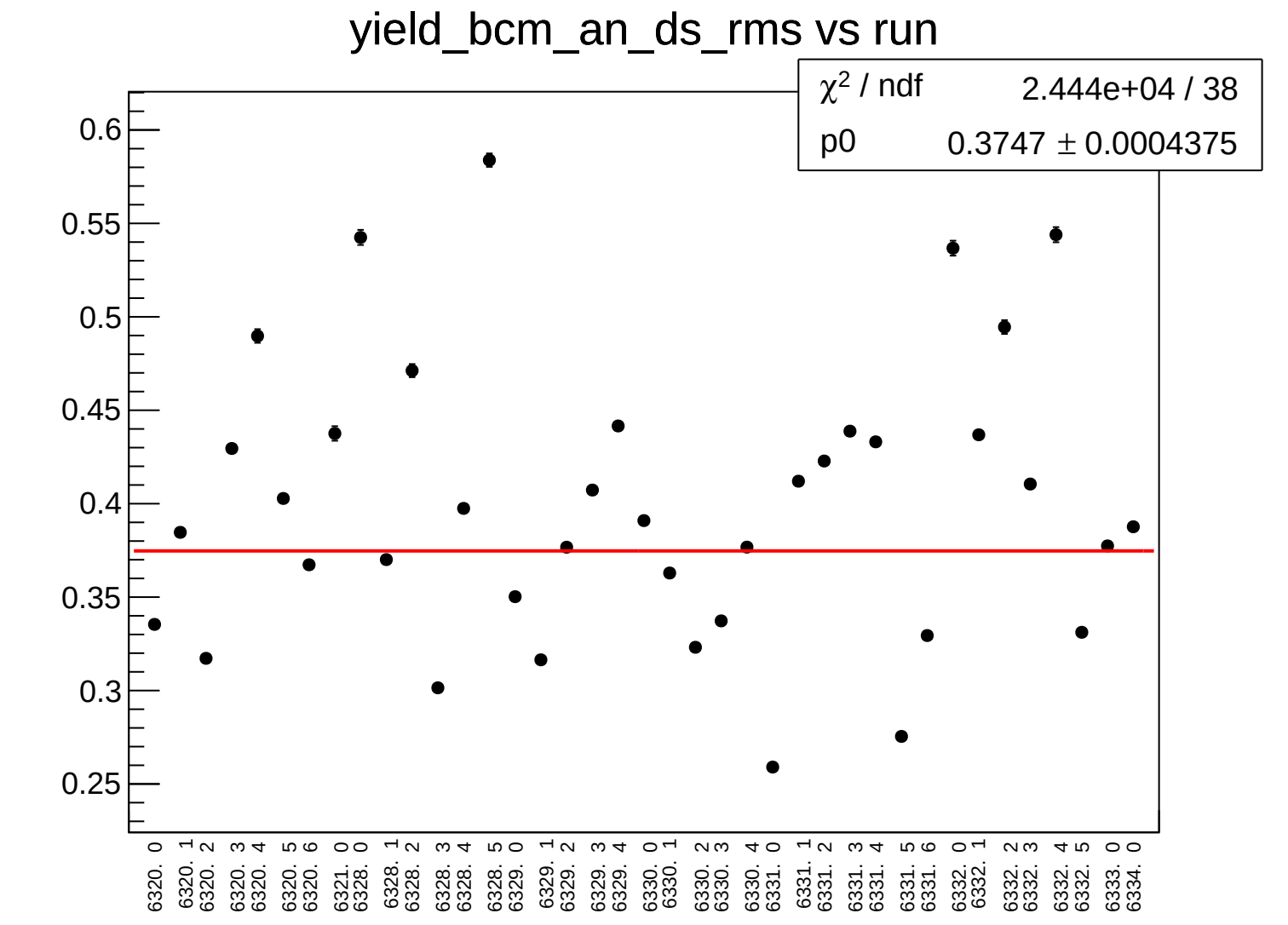

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 2.974e+07 / 38
p0 −3.68e+04 ± 9.92
pull
Entries 39
Mean −73.93
Std Dev 0

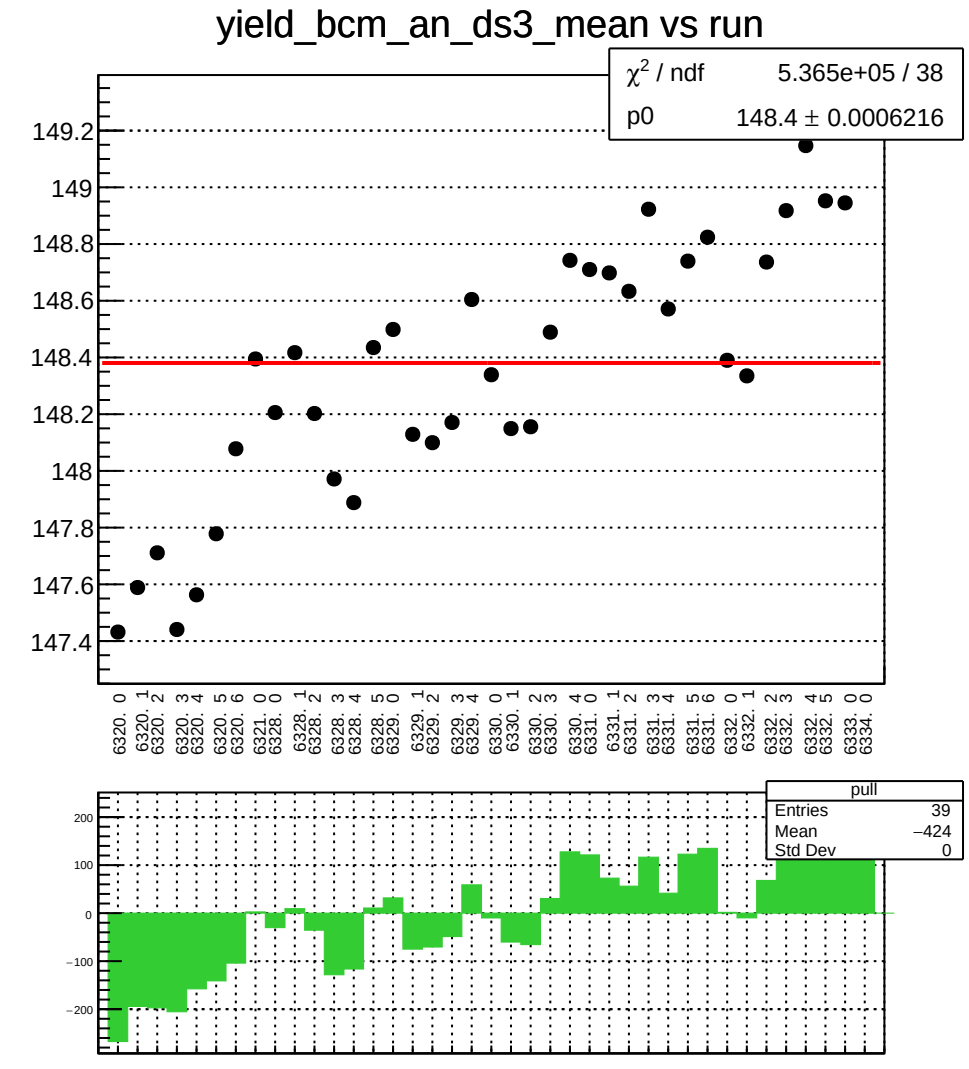

pull1D
Entries 39
Mean 0
Std Dev 0

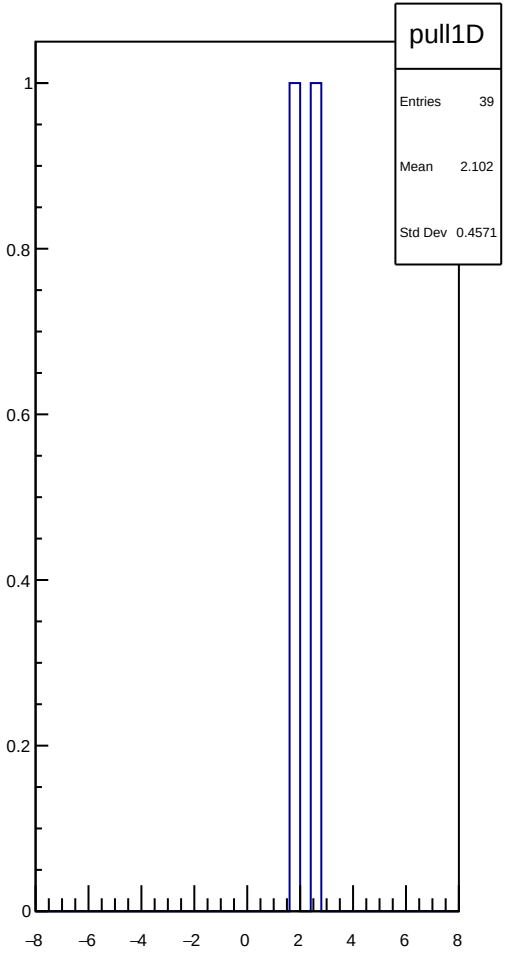

yield_bcm_an_diff_rms vs run
χ² / ndf 9.874e+04 / 38
p0 5696 ± 7.015
45000
40000
35000
30000
25000
20000
15000
10000
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

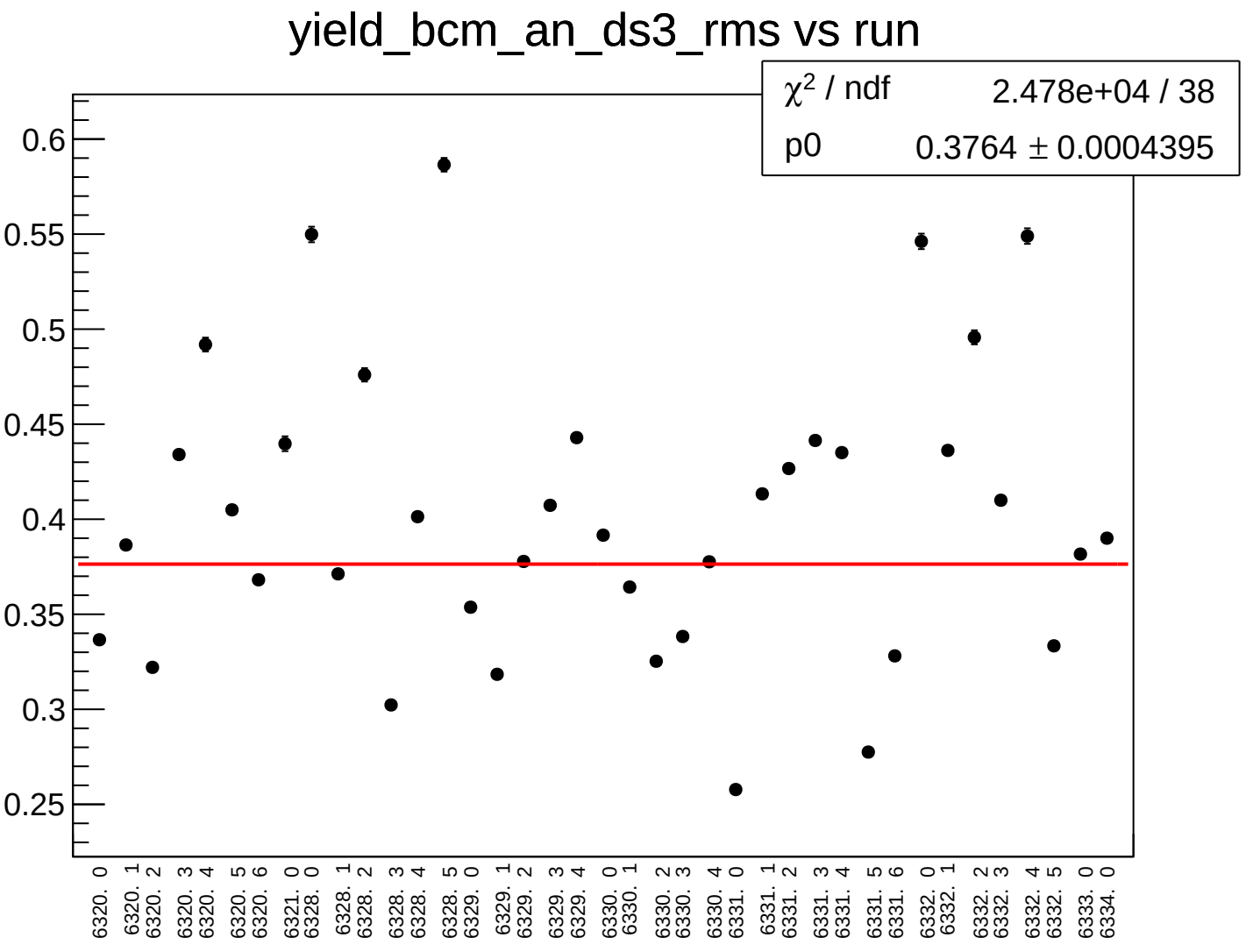

yield_bcm_an_ds_mean vs run
χ² / ndf 5.38e+05 / 38
p0 148.2 ± 0.0006187
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −455.9
Std Dev 0
200
100
0
−100
−200

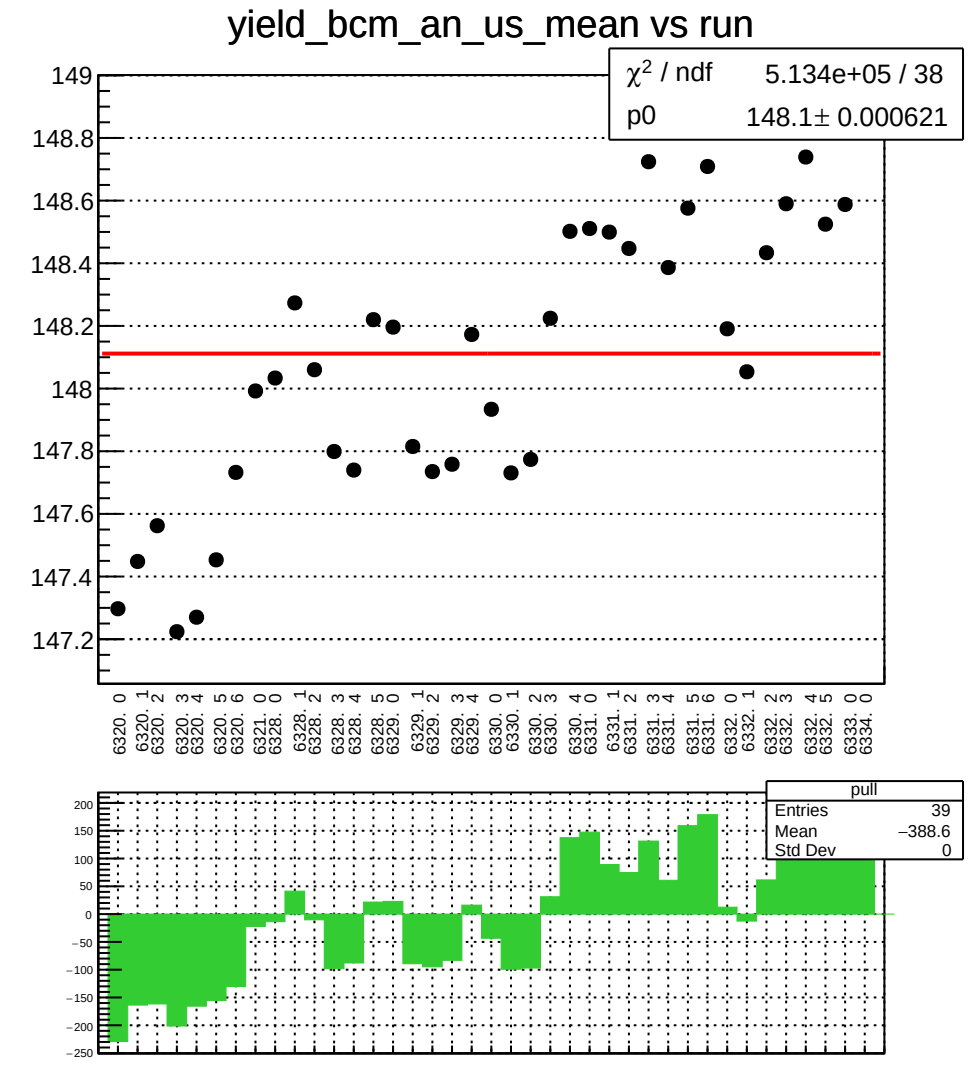

pull1D
Entries 39
Mean 0.8273
Std Dev 5.924
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

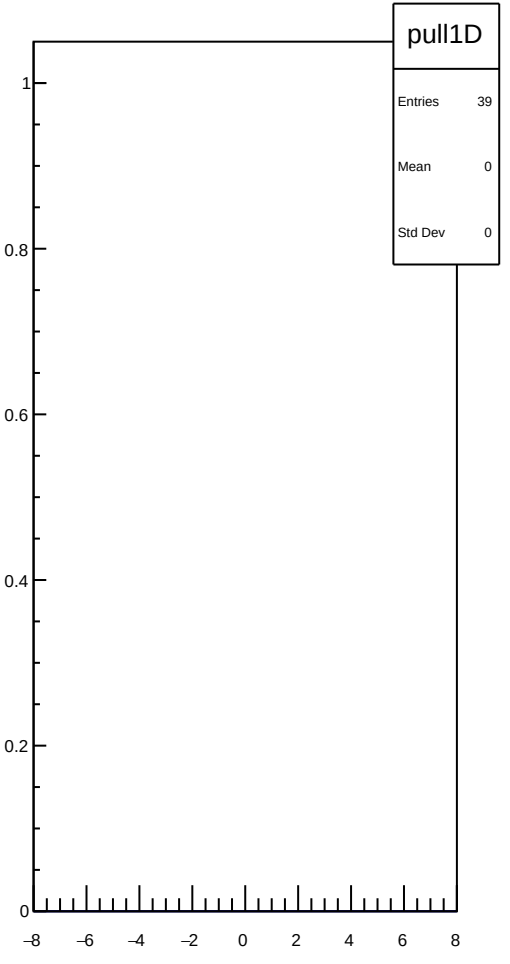

yield_bcm_an_ds_rms vs run
χ2 / ndf 2.444e+04 / 38
p0 0.3747 ± 0.0004375
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

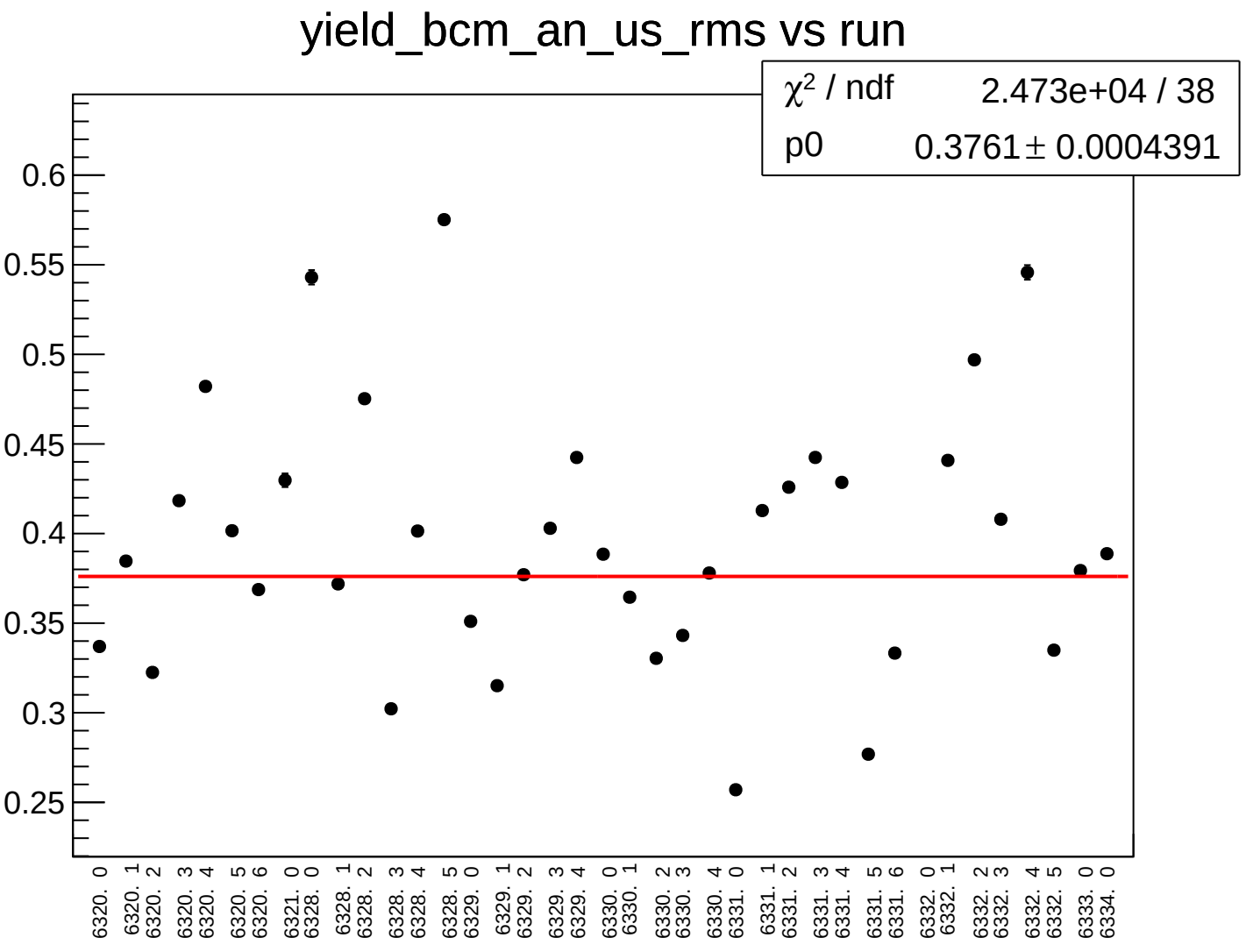

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.365e+05 / 38
p0 148.4 ± 0.0006216
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −424
Std Dev 0
200
100
0
−100
−200

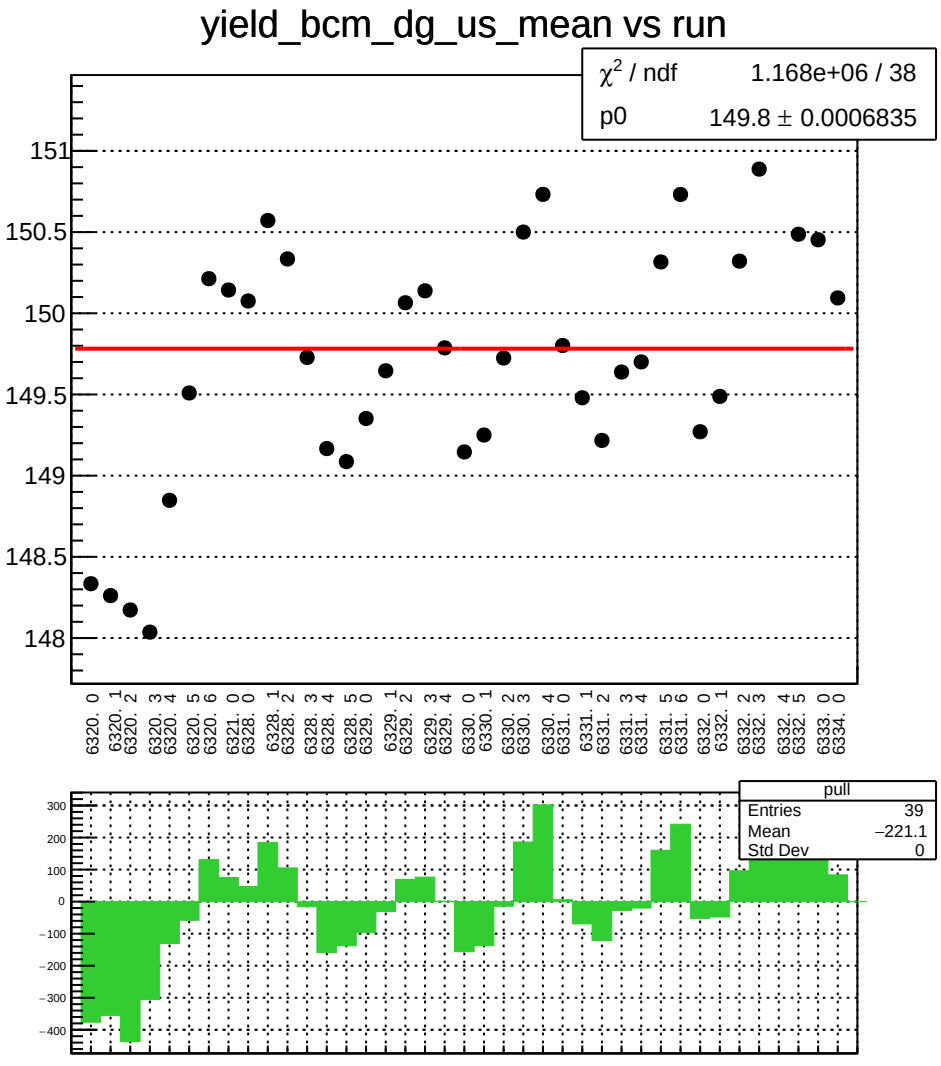

pull1D
Entries 39
Mean 2.102
Std Dev 0.4571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

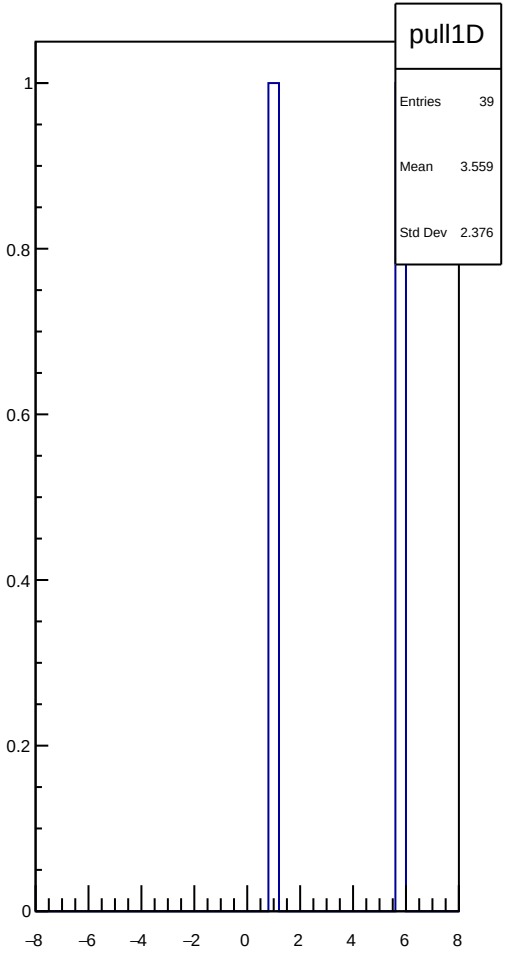

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.478e+04 / 38
p0 0.3764 ± 0.0004395
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

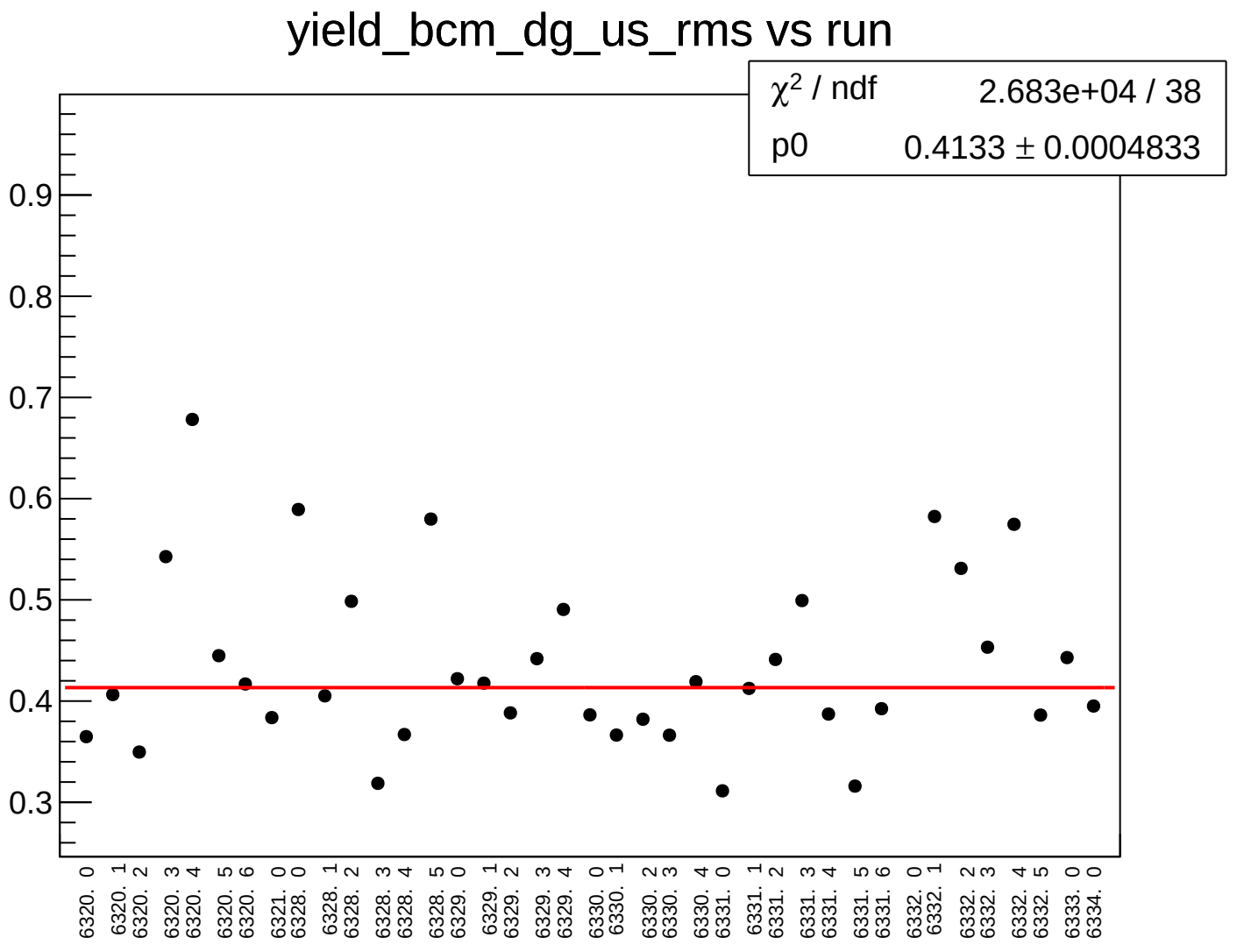

yield_bcm_an_us_mean vs run
χ² / ndf 5.134e+05 / 38
p0 148.1± 0.000621
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −388.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

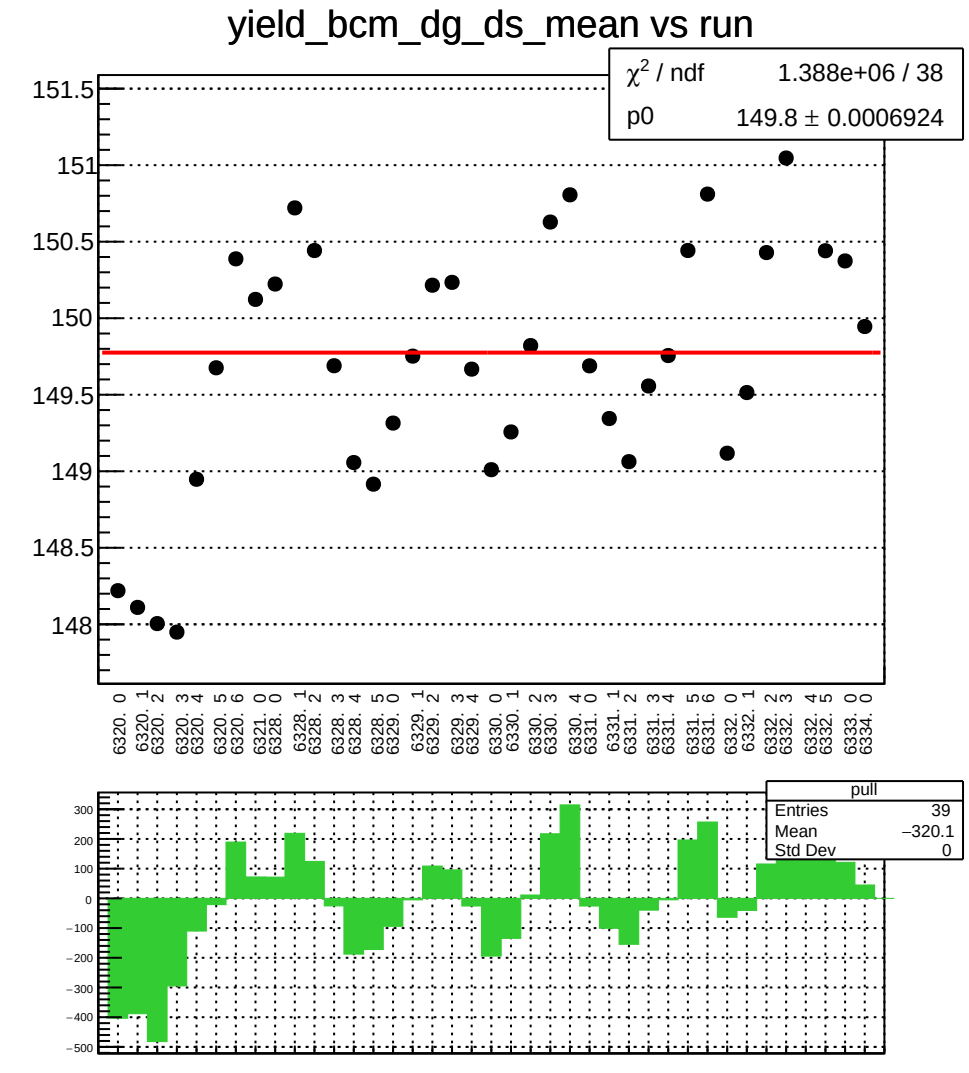

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

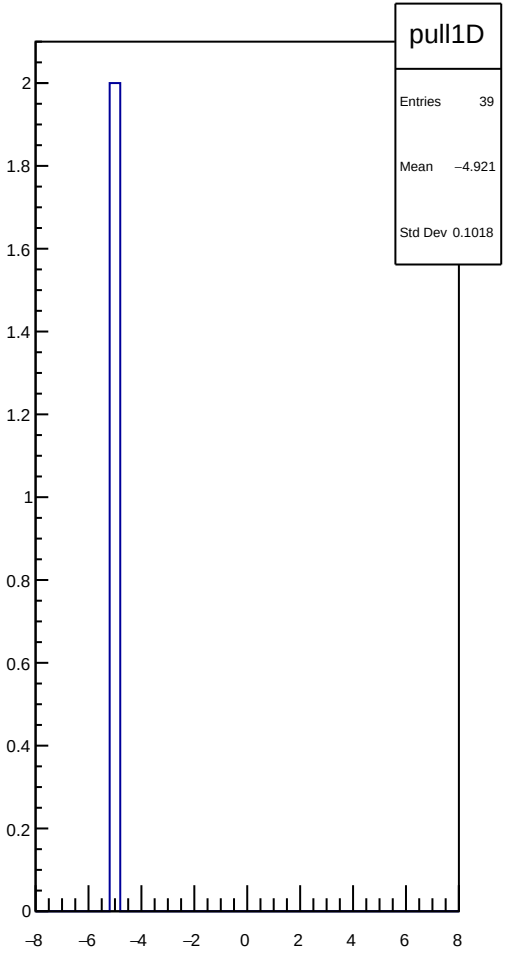

yield_bcm_an_us_rms vs run
χ² / ndf 2.473e+04 / 38
p0 0.3761 ± 0.0004391
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

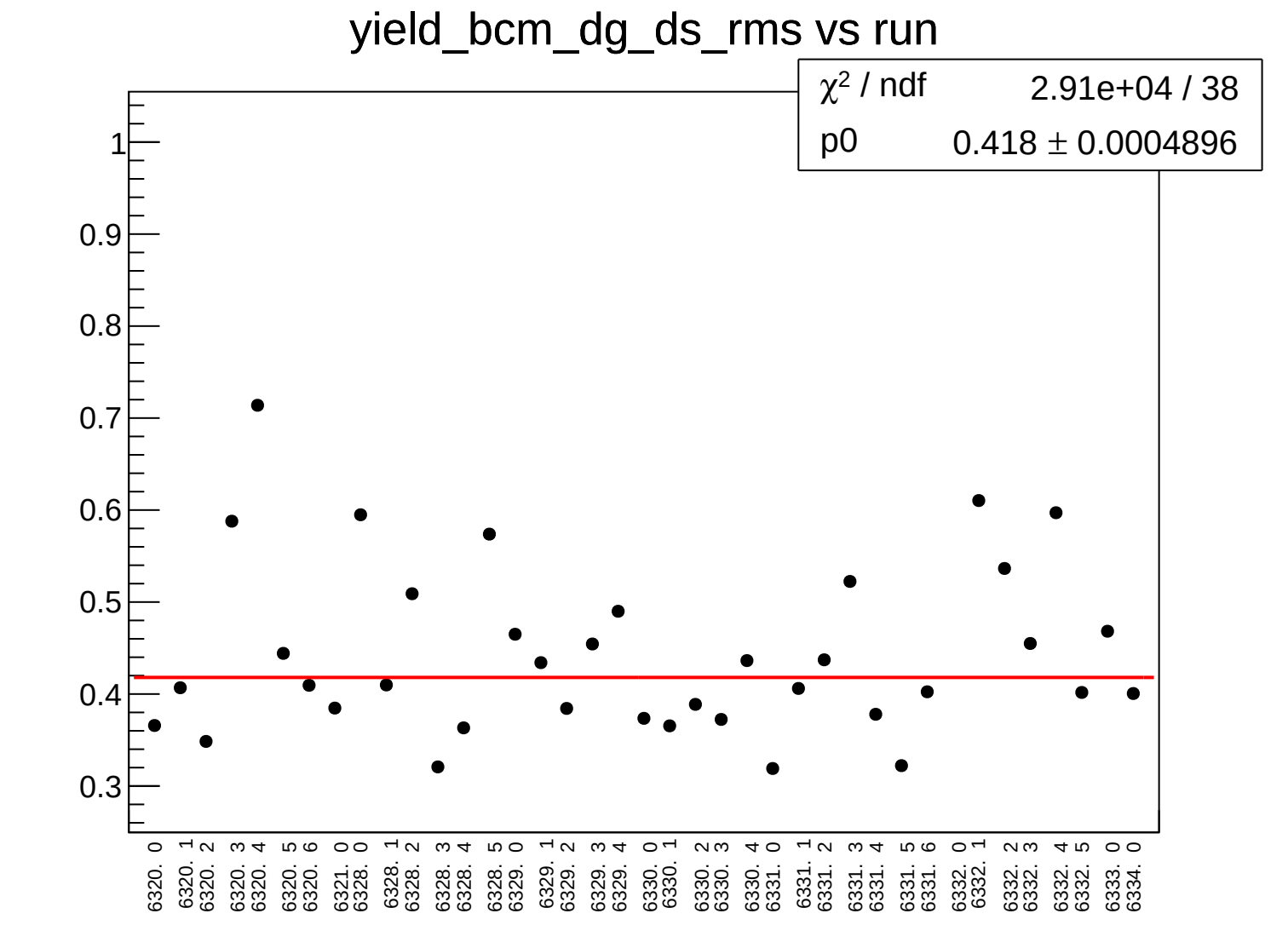

yield_bcm_dg_us_mean vs run
χ² / ndf 1.168e+06 / 38
p0 149.8 ± 0.0006835
151
150.5
150
149.5
149
148.5
148
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −221.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400

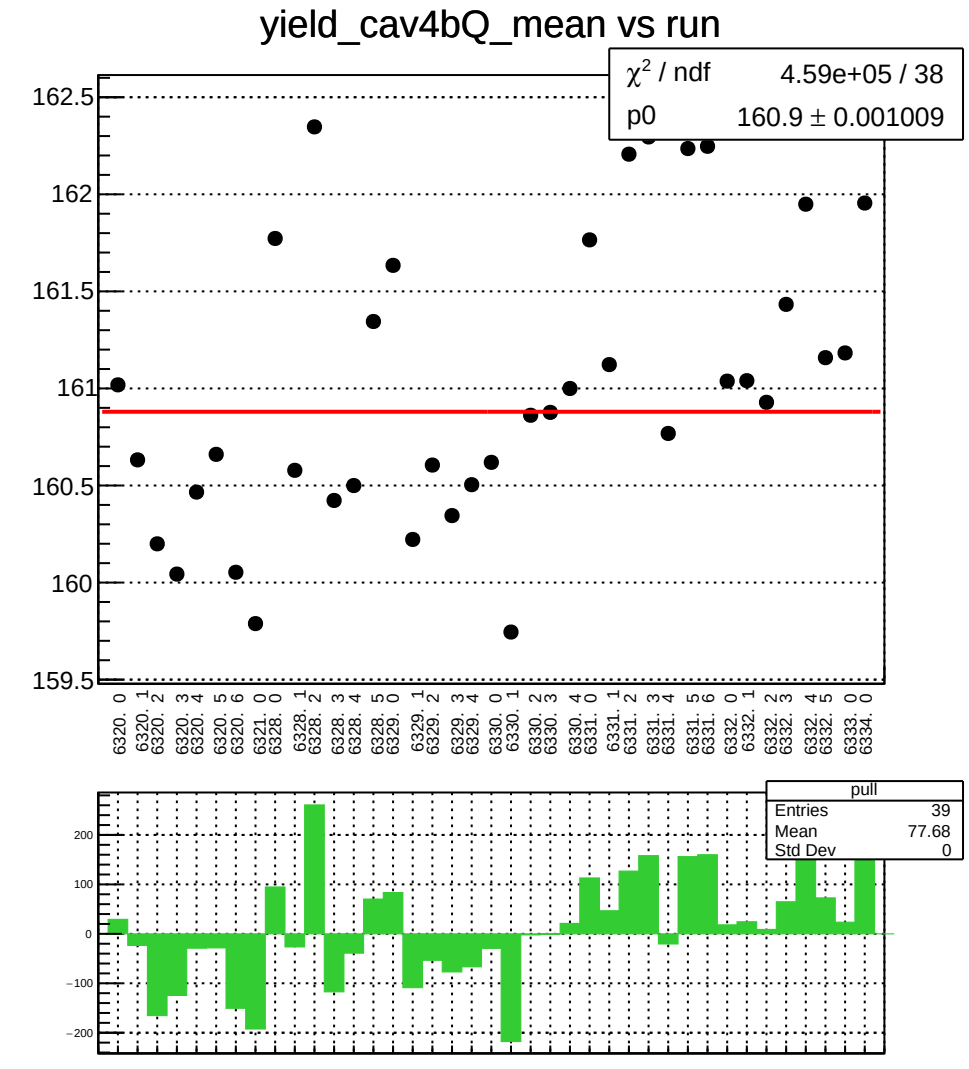

pull1D
Entries 39
Mean 3.559
Std Dev 2.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

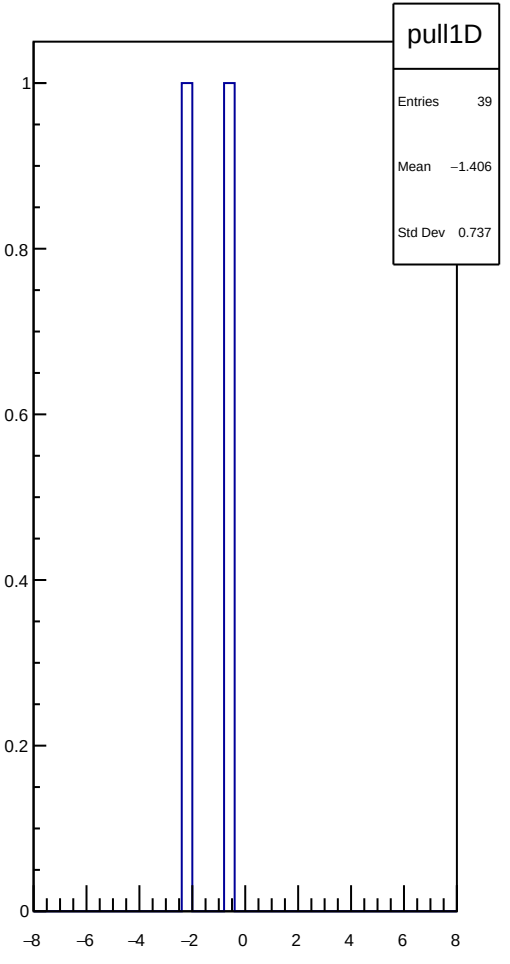

yield_bcm_dg_us_rms vs run
χ² / ndf 2.683e+04 / 38
p0 0.4133 ± 0.0004833
0.9
0.8
0.7
0.6
0.5
0.4
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

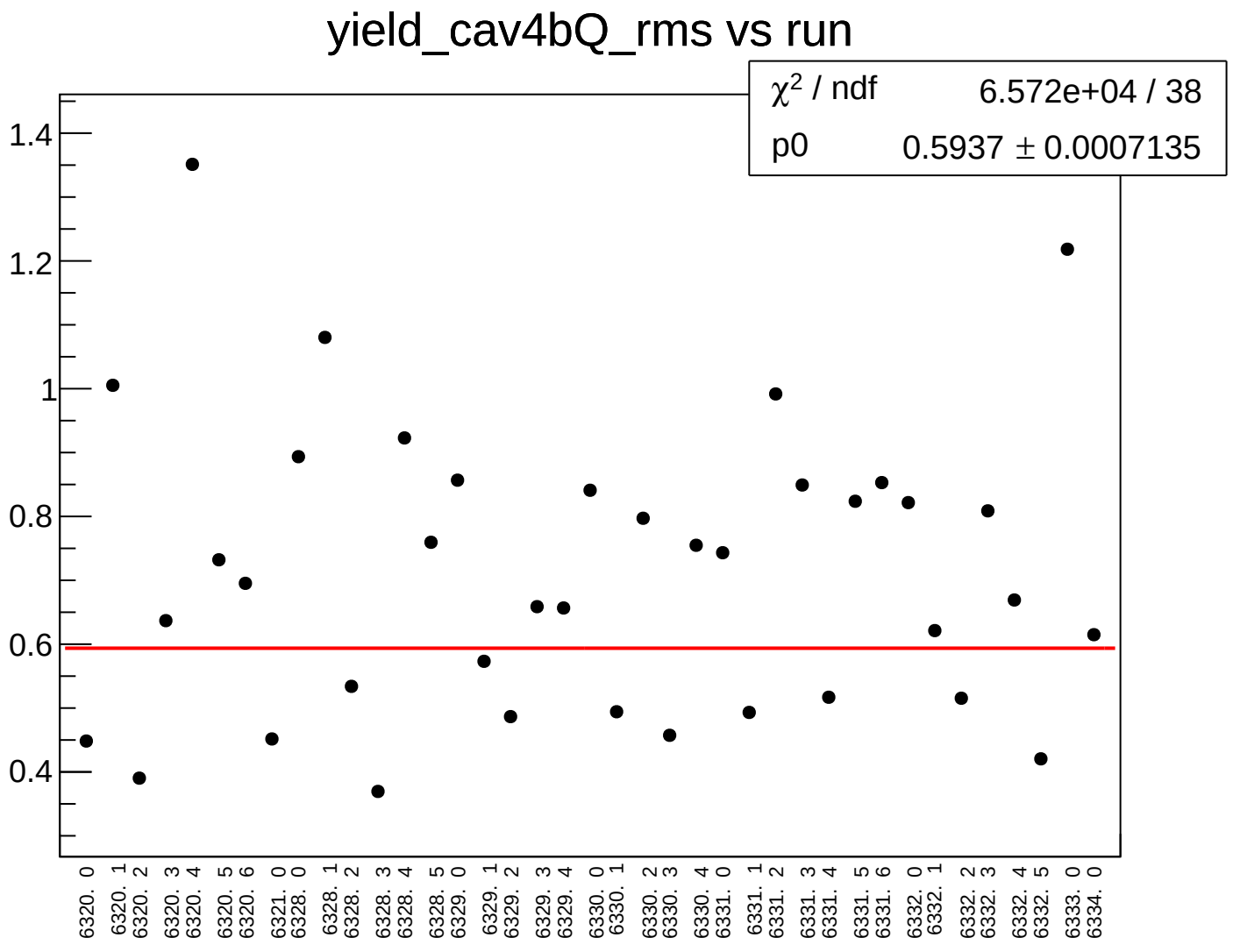

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.388e+06 / 38
p0 149.8 ± 0.0006924
151.5
151
150.5
150
149.5
149
148.5
148
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −320.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

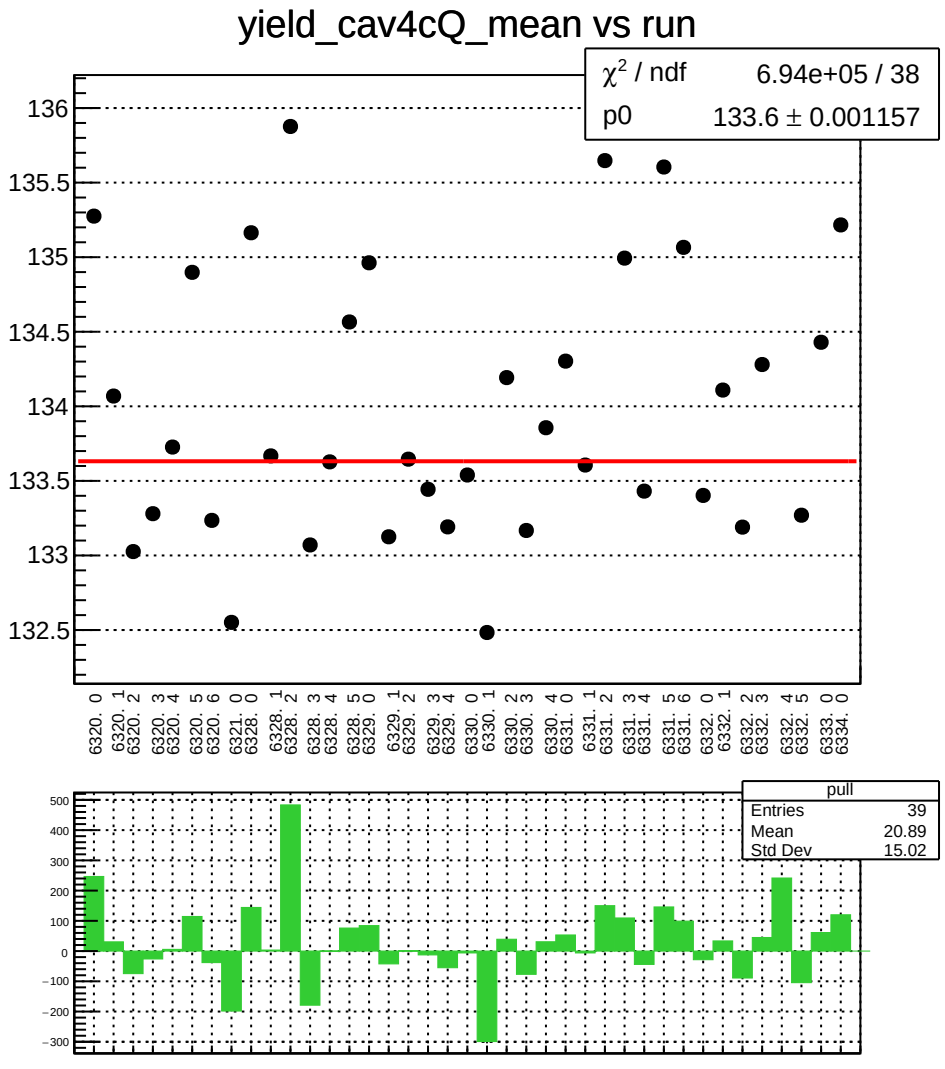

pull1D
Entries 39
Mean −4.921
Std Dev 0.1018
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

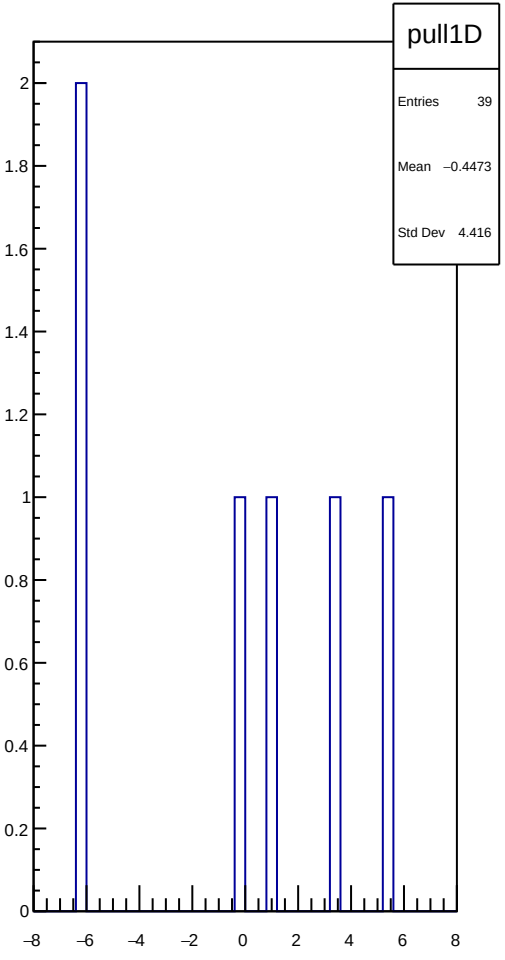

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.91e+04 / 38
p0 0.418 ± 0.0004896
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

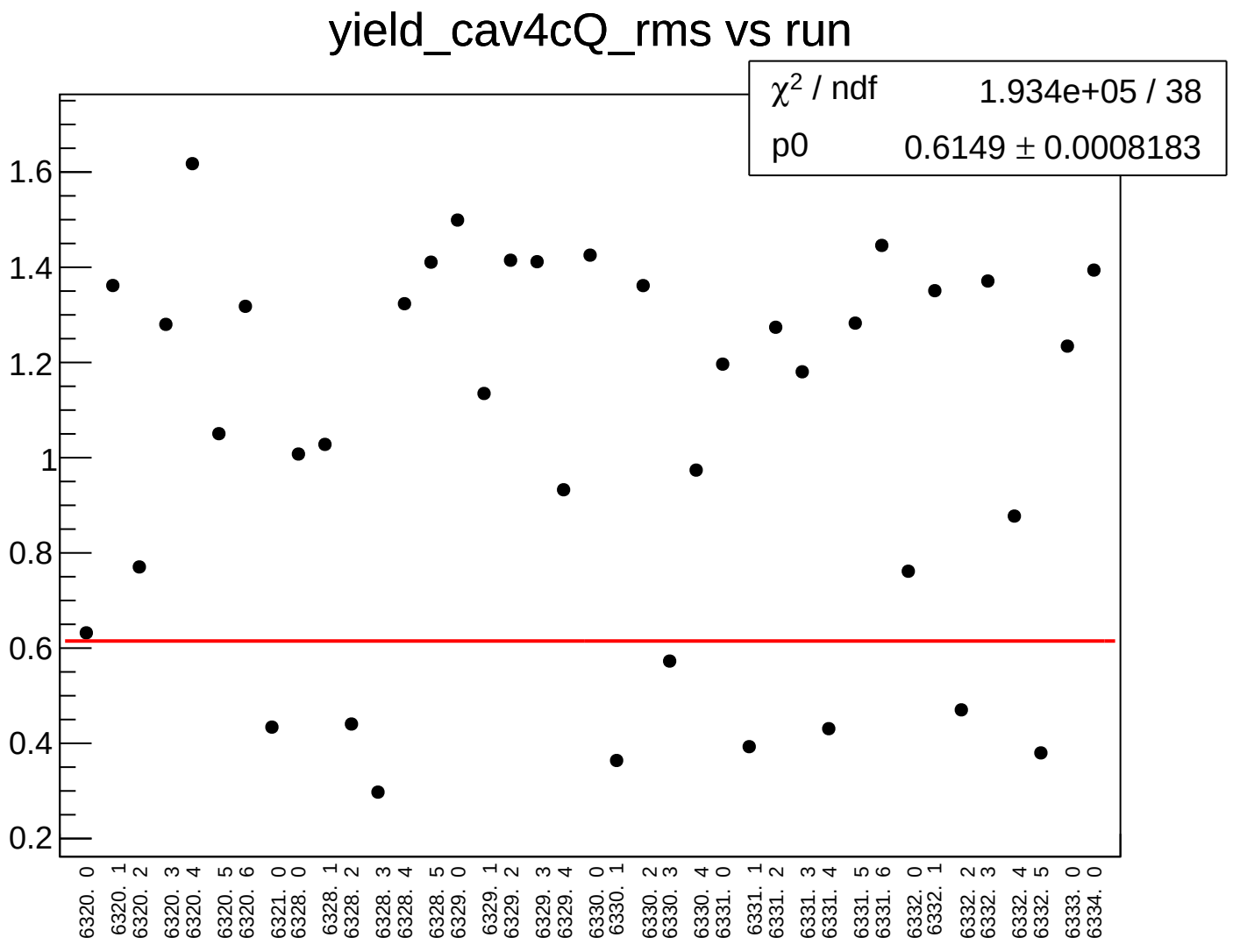

yield_cav4bQ_mean vs run
χ² / ndf 4.59e+05 / 38
p0 160.9 ± 0.001009
162.5
162
161.5
161
160.5
160
159.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 77.68
Std Dev 0
200
100
0
−100
−200

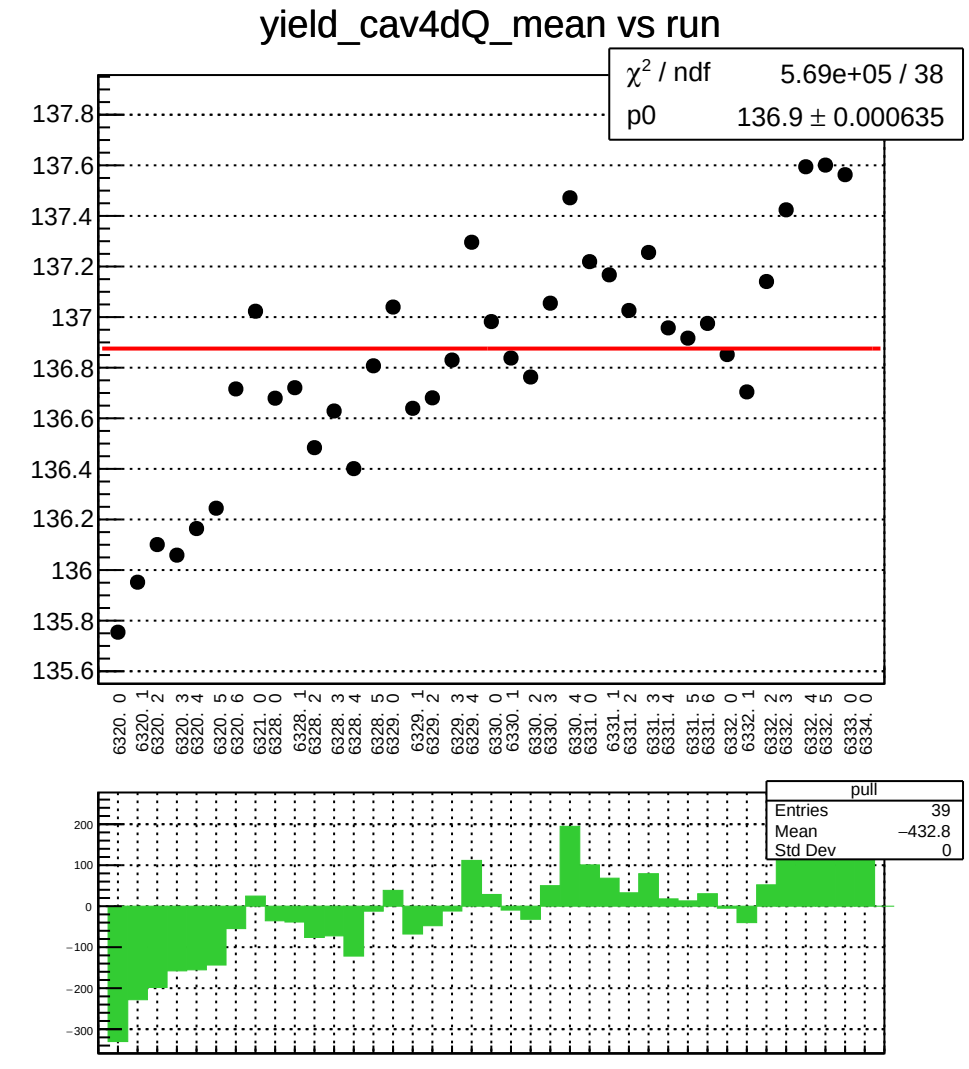

pull1D
Entries 39
Mean −1.406
Std Dev 0.737
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

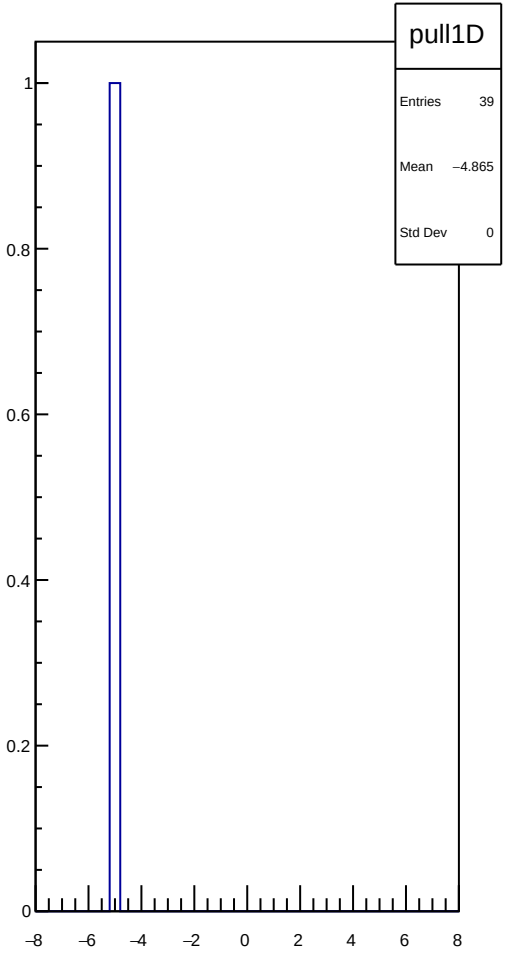

yield_cav4bQ_rms vs run
χ² / ndf 6.572e+04 / 38
p0 0.5937 ± 0.0007135
1.4
1.2
1
0.8
0.6
0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

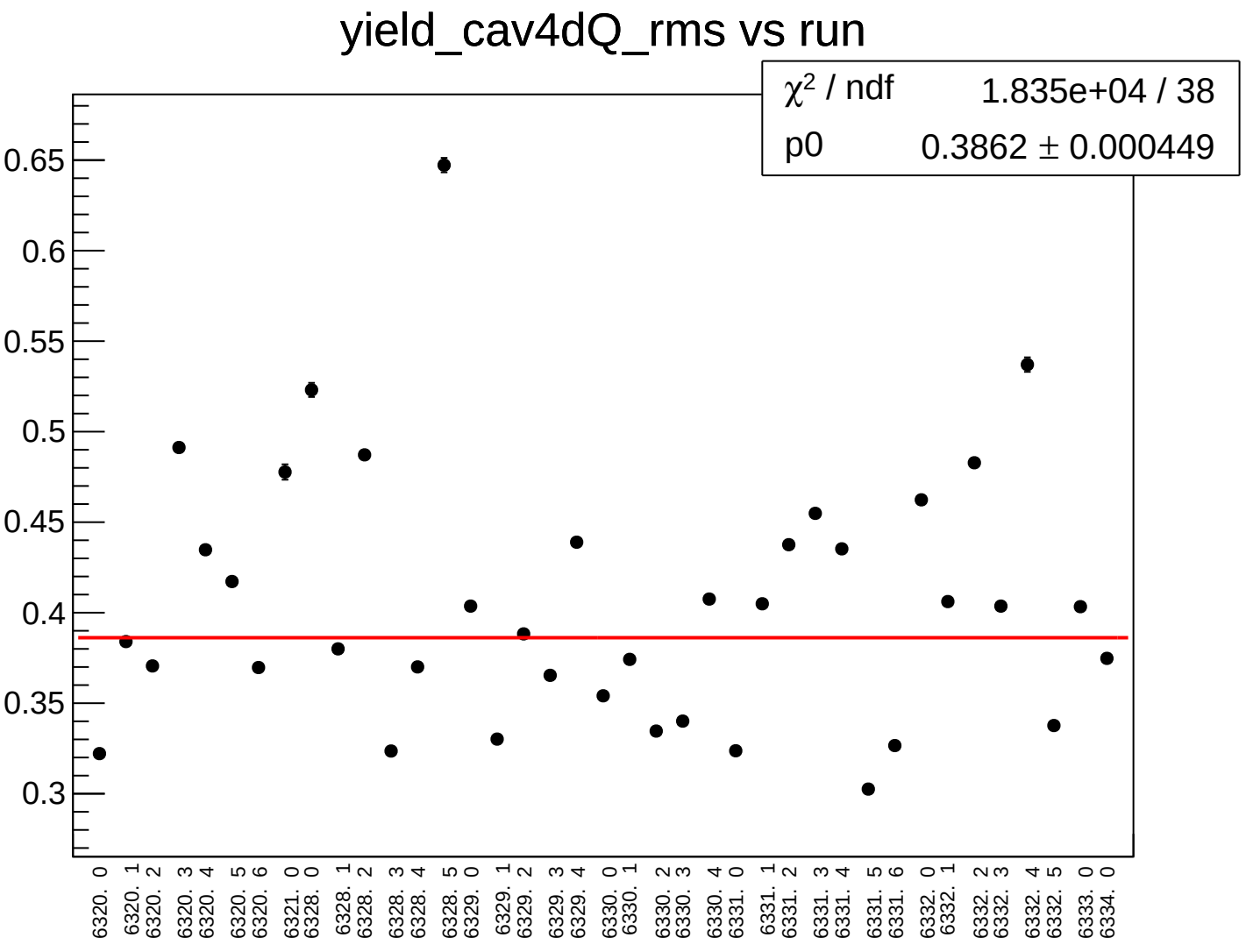

yield_cav4cQ_mean vs run
χ² / ndf 6.94e+05 / 38
p0 133.6 ± 0.001157
136
135.5
135
134.5
134
133.5
133
132.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.89
Std Dev 15.02
500
400
300
200
100
0
−100
−200
−300

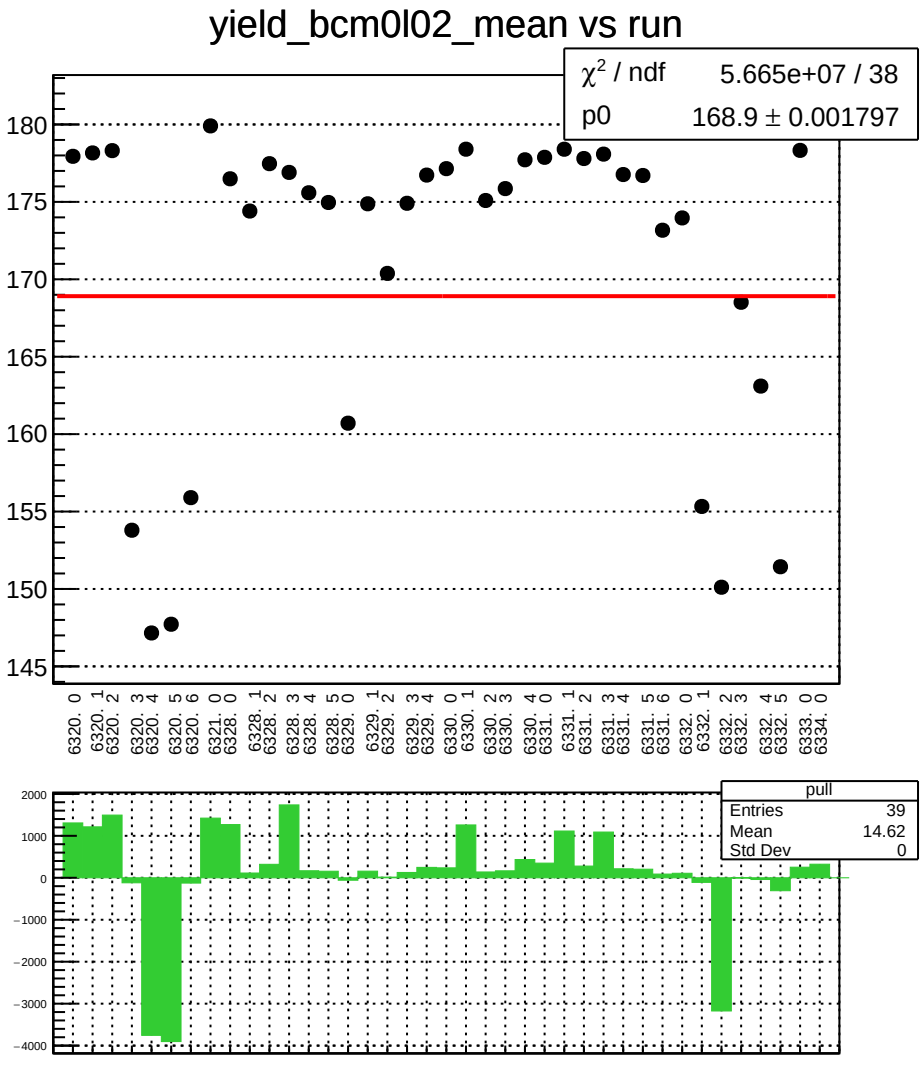

pull1D
Entries 39
Mean −0.4473
Std Dev 4.416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

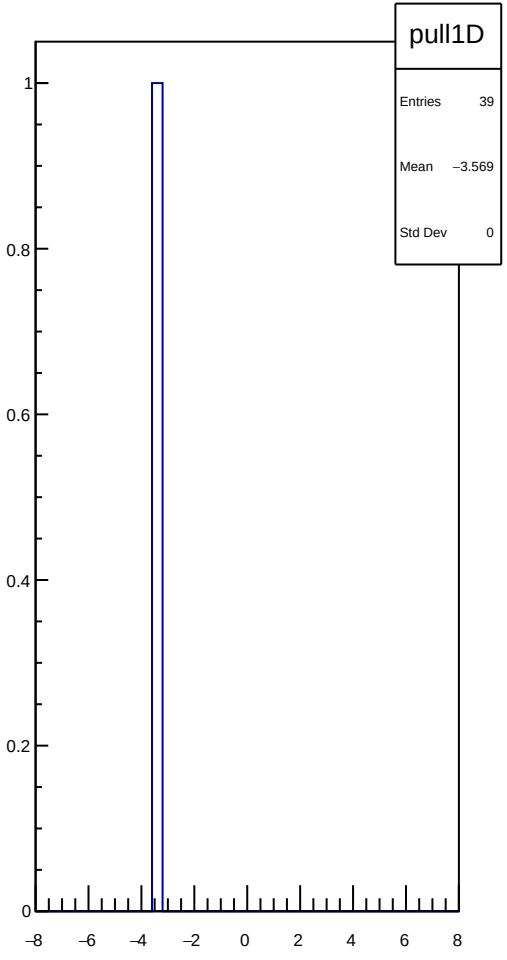

yield_cav4cQ_rms vs run
χ² / ndf 1.934e+05 / 38
p0 0.6149 ± 0.0008183
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

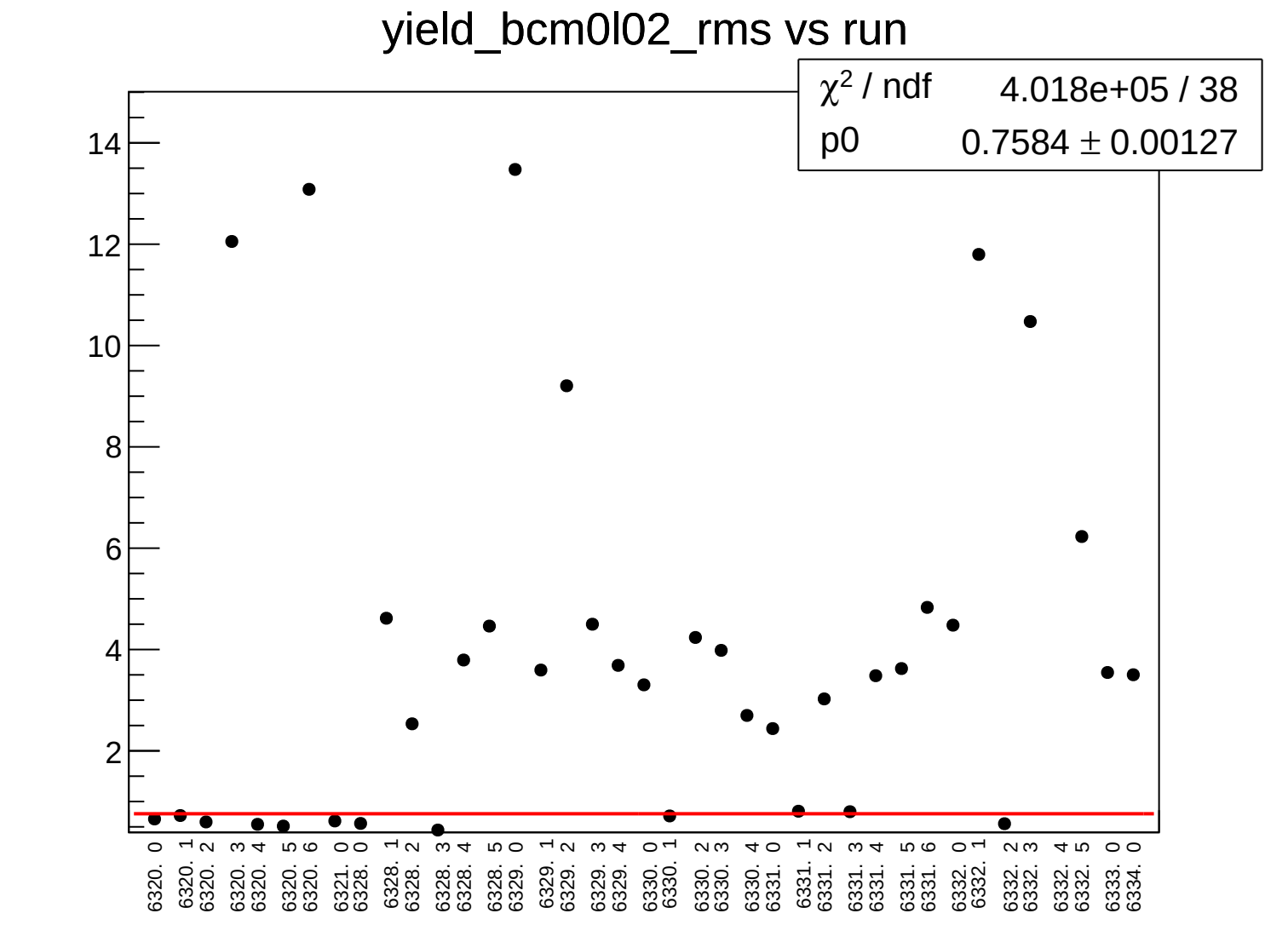

yield_cav4dQ_mean vs run
χ² / ndf 5.69e+05 / 38
p0 136.9 ± 0.000635
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
135.8
135.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −432.8
Std Dev 0
200
100
0
−100
−200
−300

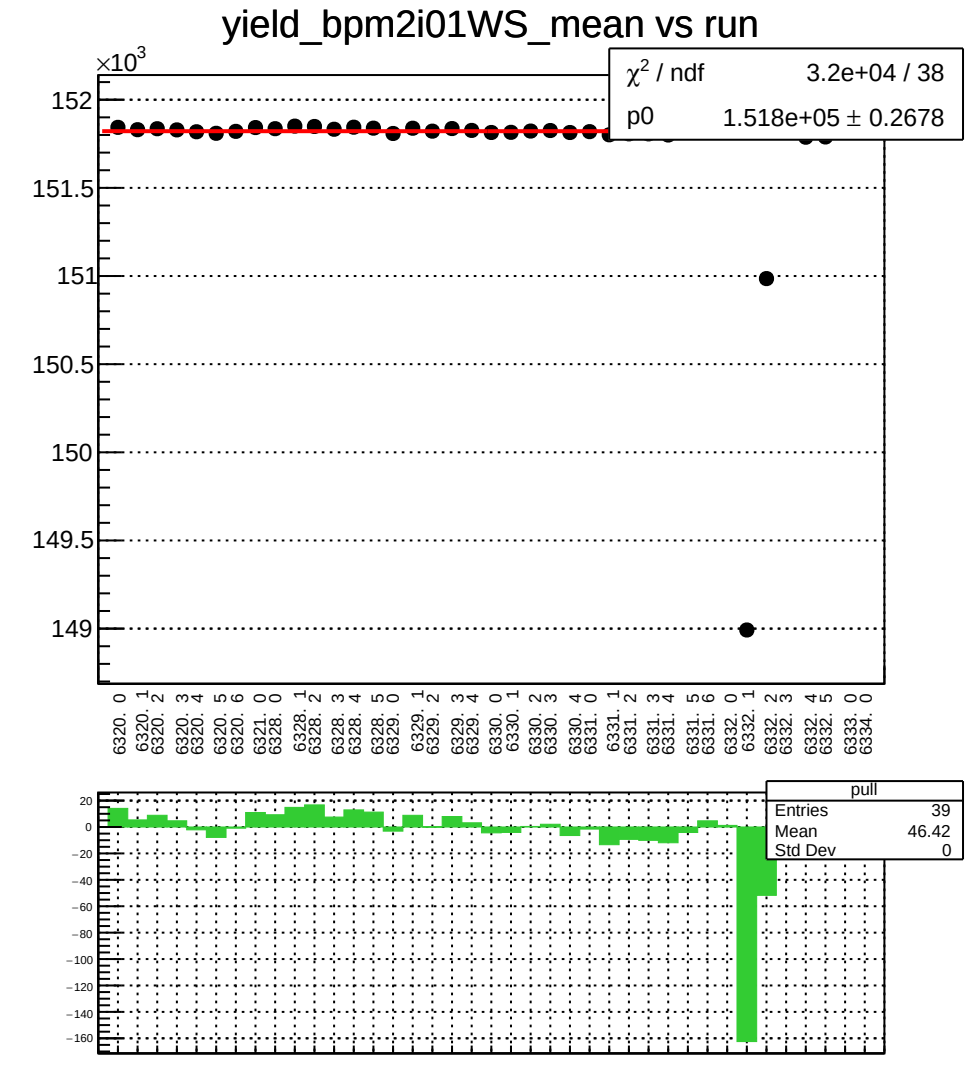

pull1D
Entries 39
Mean −4.865
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

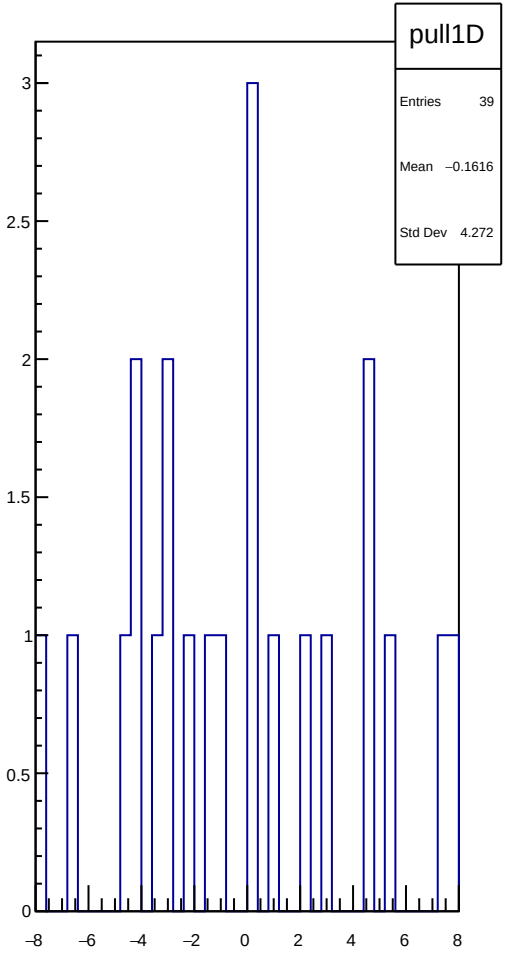

yield_cav4dQ_rms vs run
χ² / ndf 1.835e+04 / 38
p0 0.3862 ± 0.000449
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

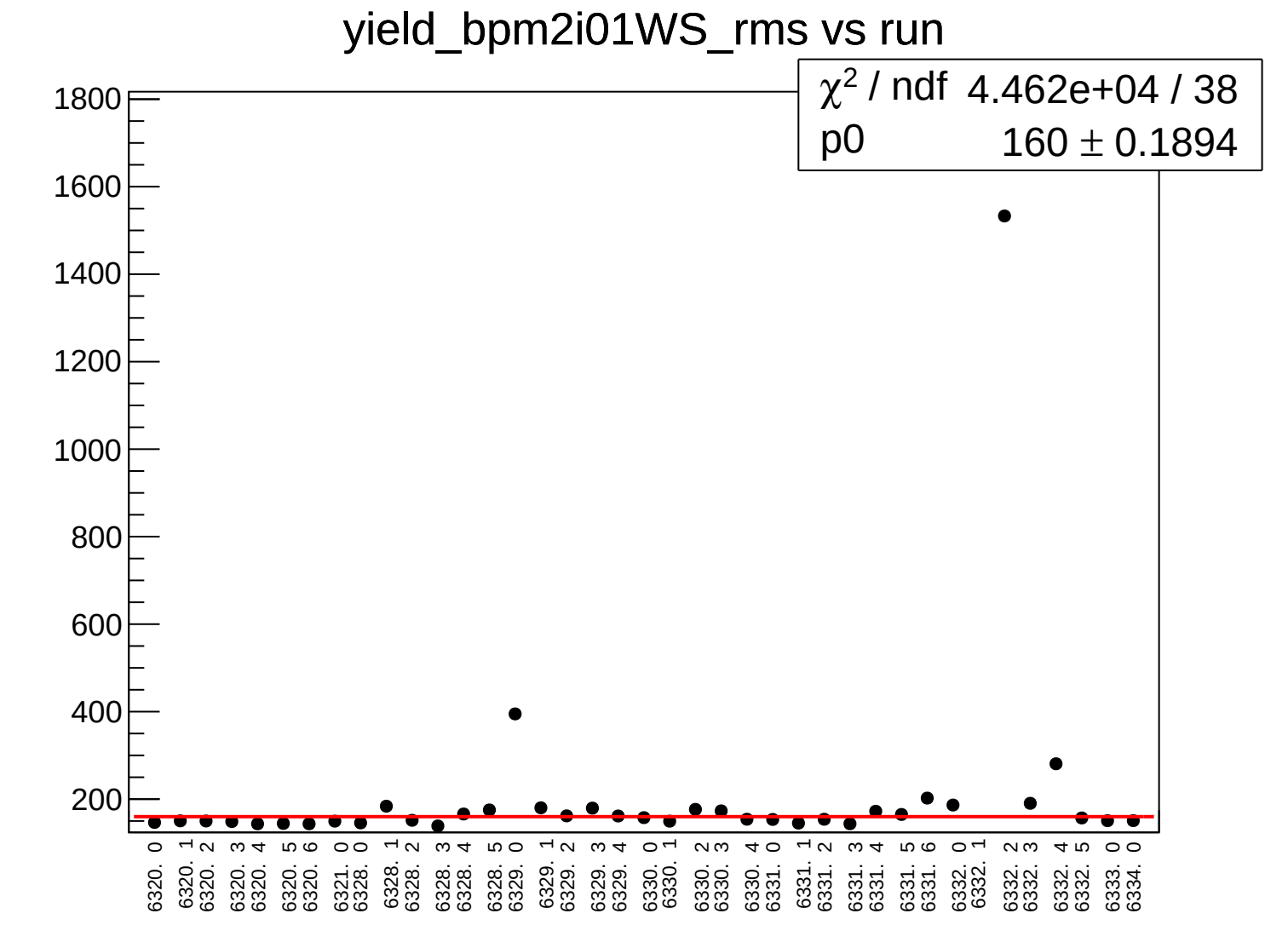

yield_bcm0l02_mean vs run
χ² / ndf 5.665e+07 / 38
p0 168.9 ± 0.001797
180
175
170
165
160
155
150
145
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 14.62
Std Dev 0

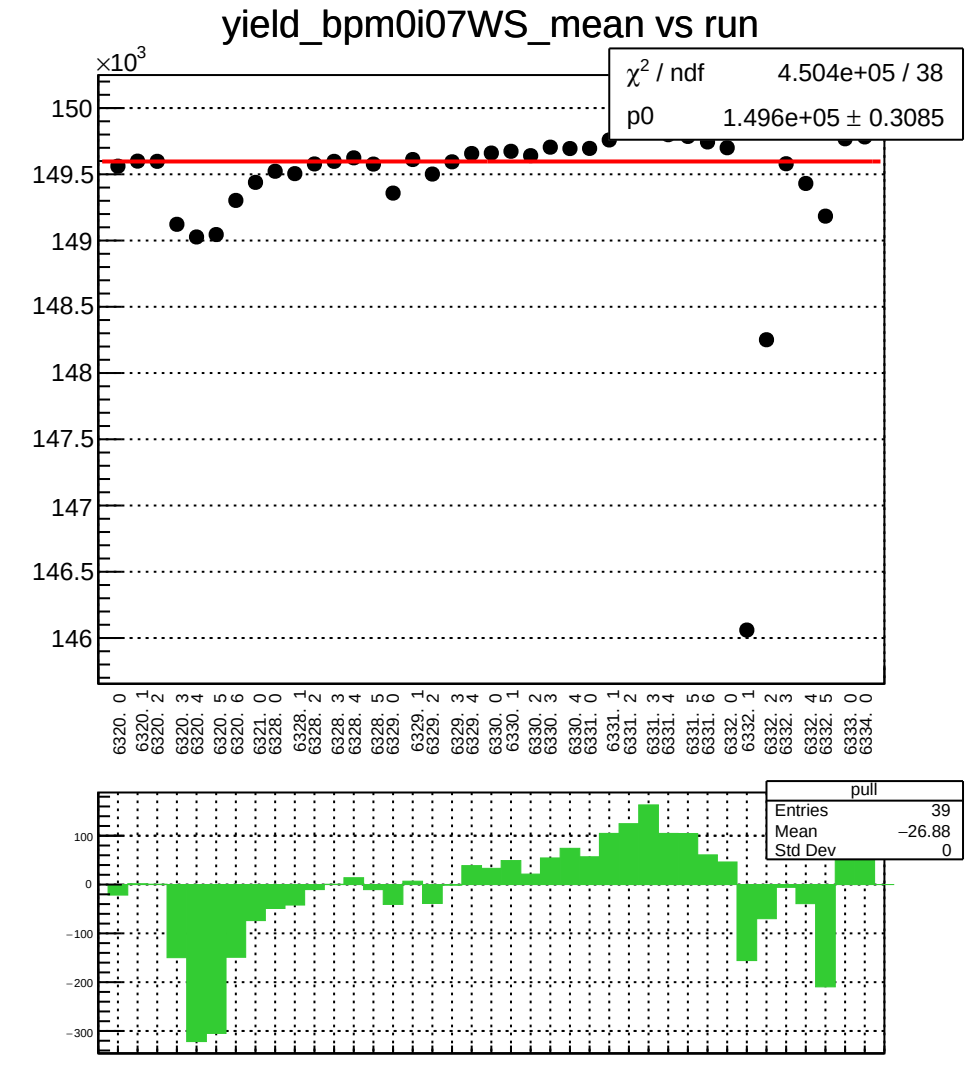

pull1D
Entries 39
Mean −3.569
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

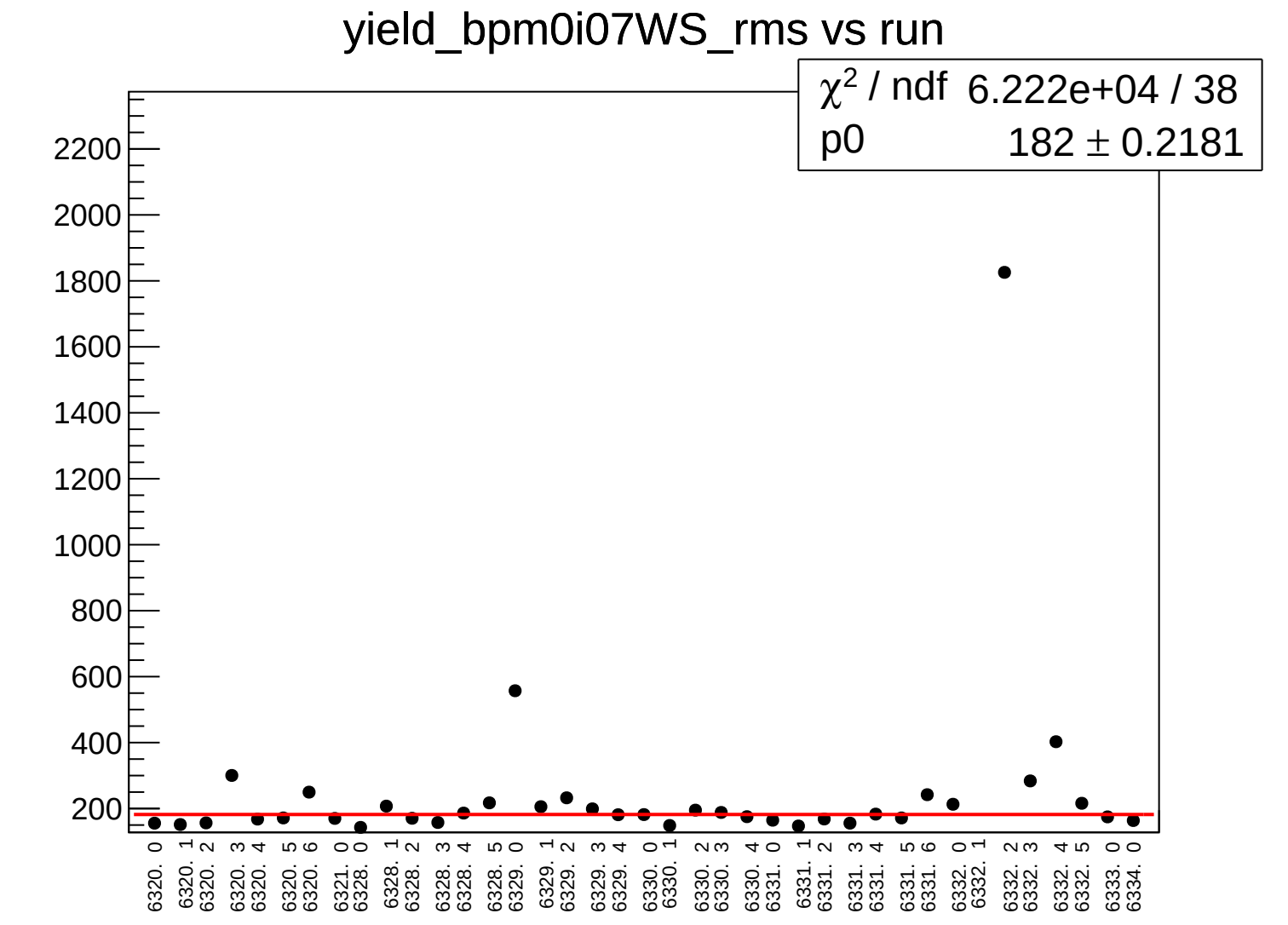

yield_bcm0l02_rms vs run
χ² / ndf 4.018e+05 / 38
p0 0.7584 ± 0.00127
14
12
10
8
6
4
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

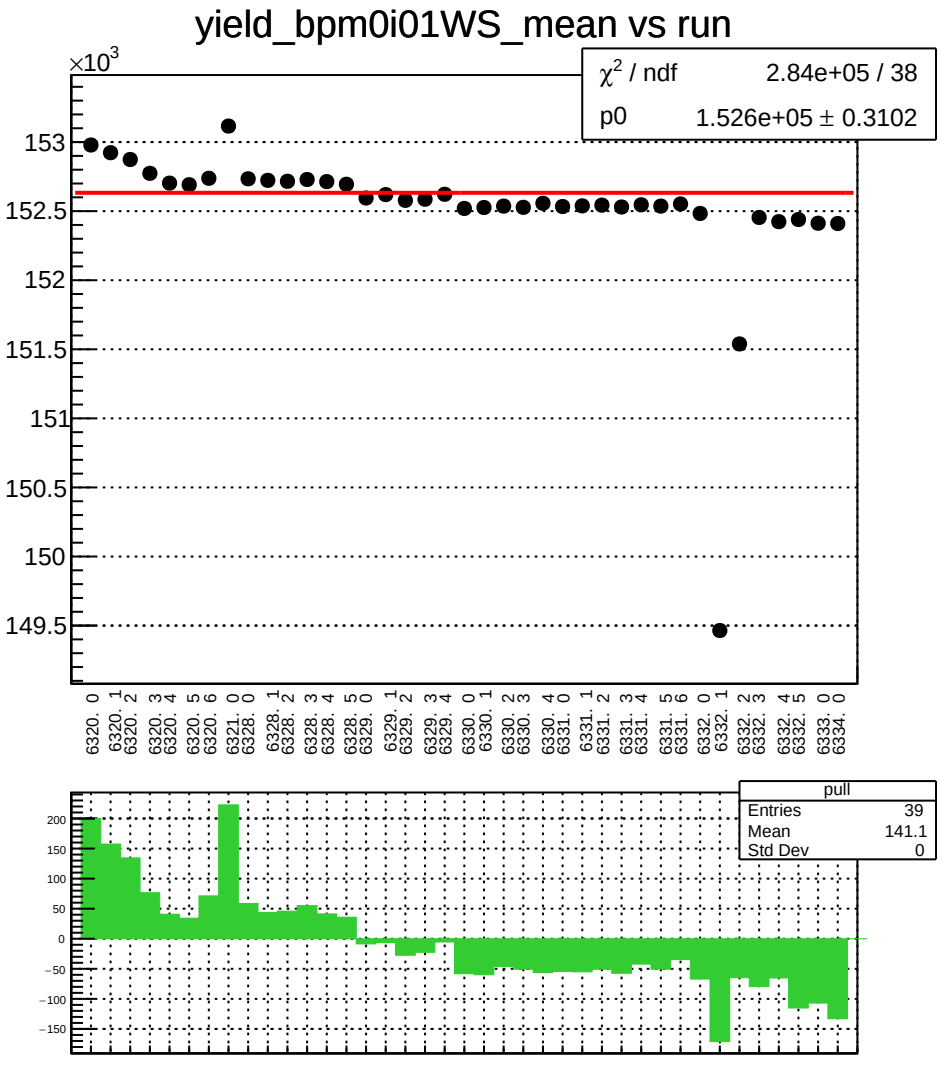

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 3.2e+04 / 38
p0 1.518e+05 ± 0.2678
152
151.5
151
150.5
150
149.5
149
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 46.42
Std Dev 0
20
0
−20
−40
−60
−80
−100
−120
−140
−160

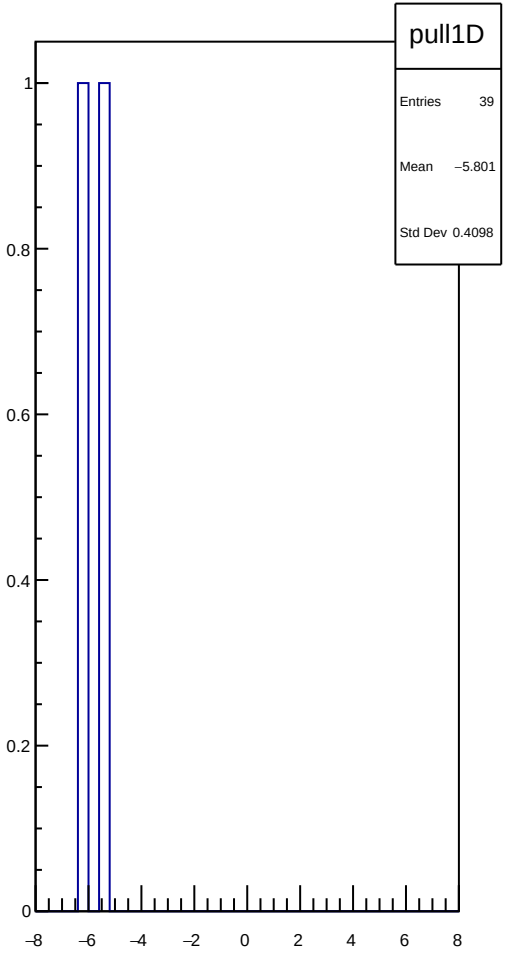

pull1D
Entries 39
Mean −0.1616
Std Dev 4.272
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

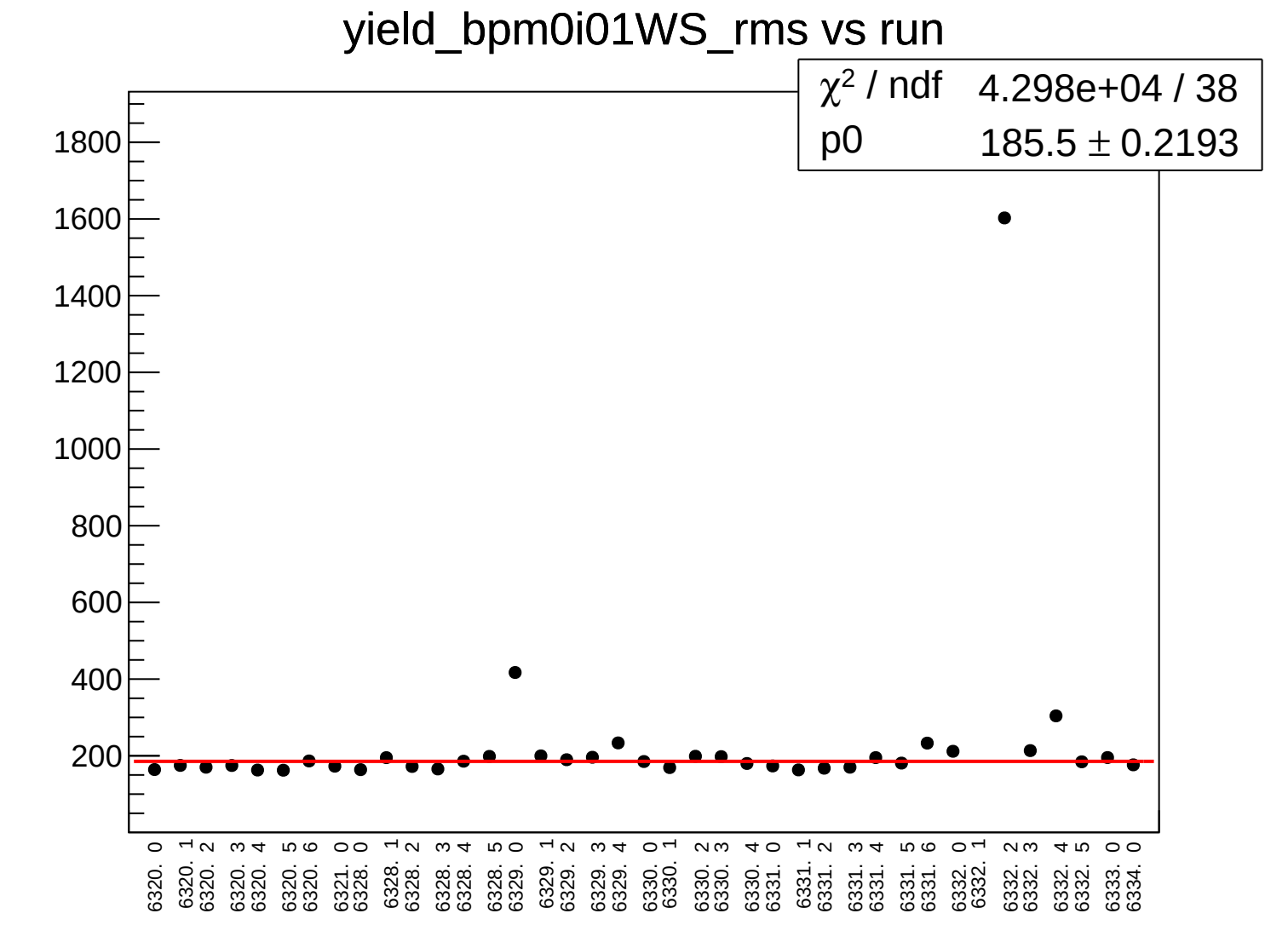

yield_bpm2i01WS_rms vs run
χ² / ndf 4.462e+04 / 38
p0 160 ± 0.1894
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

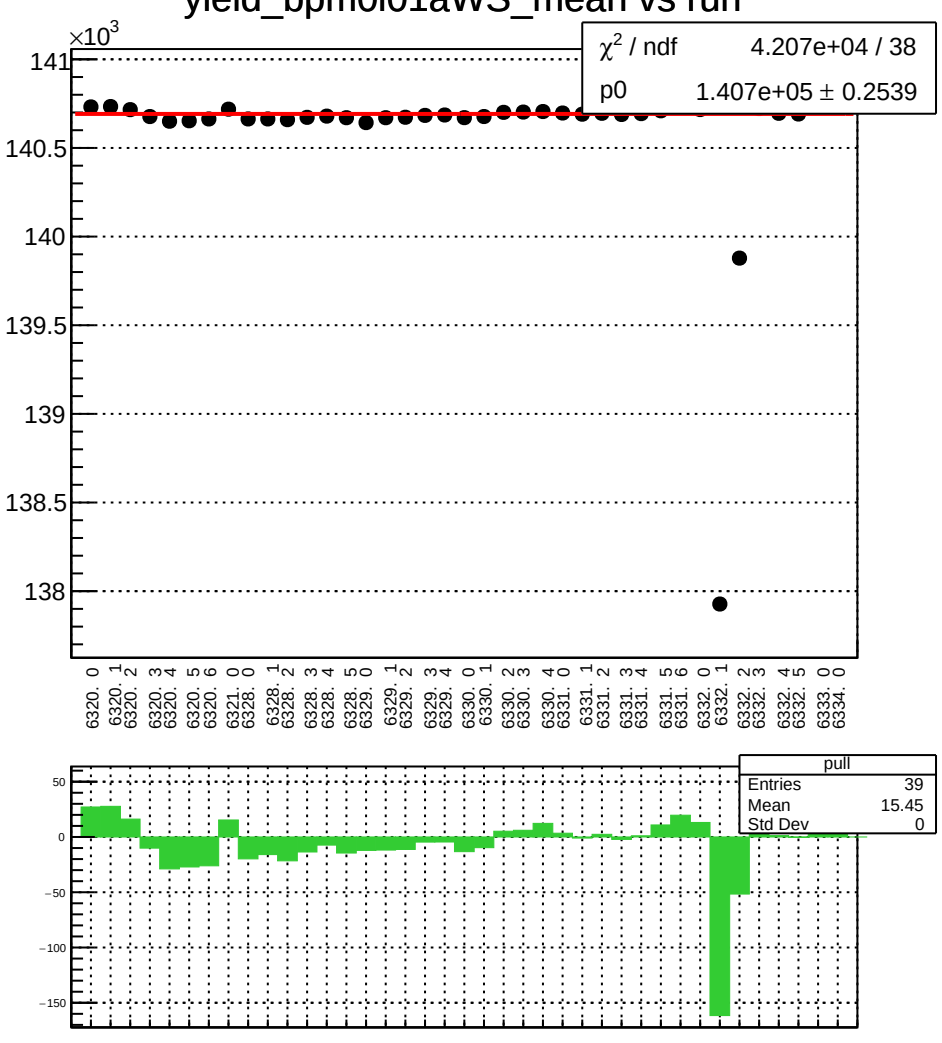

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.504e+05 / 38
p0 1.496e+05 ± 0.3085
150
149.5
149
148.5
148
147.5
147
146.5
146
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.88
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 39
Mean 0.4732
Std Dev 3.706
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

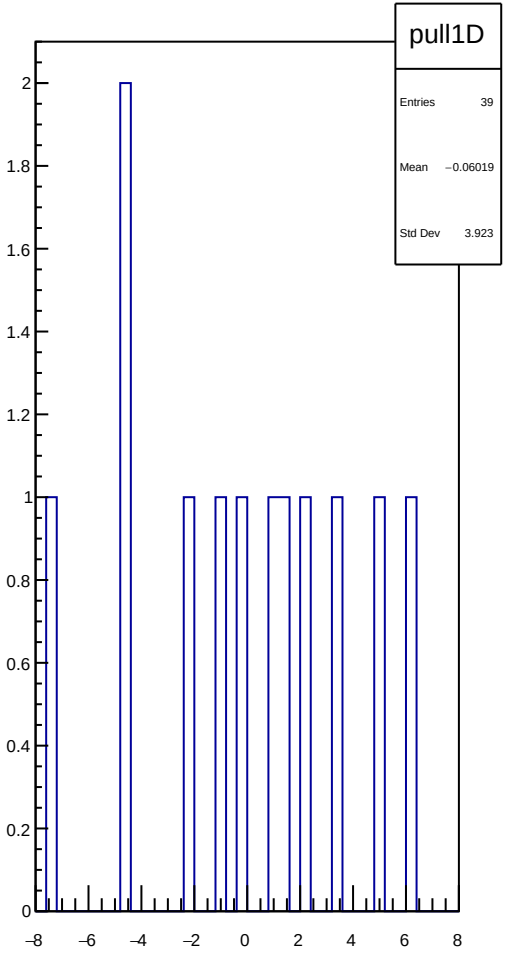

yield_bpm0i07WS_rms vs run
χ² / ndf 6.222e+04 / 38
p0 182 ± 0.2181
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

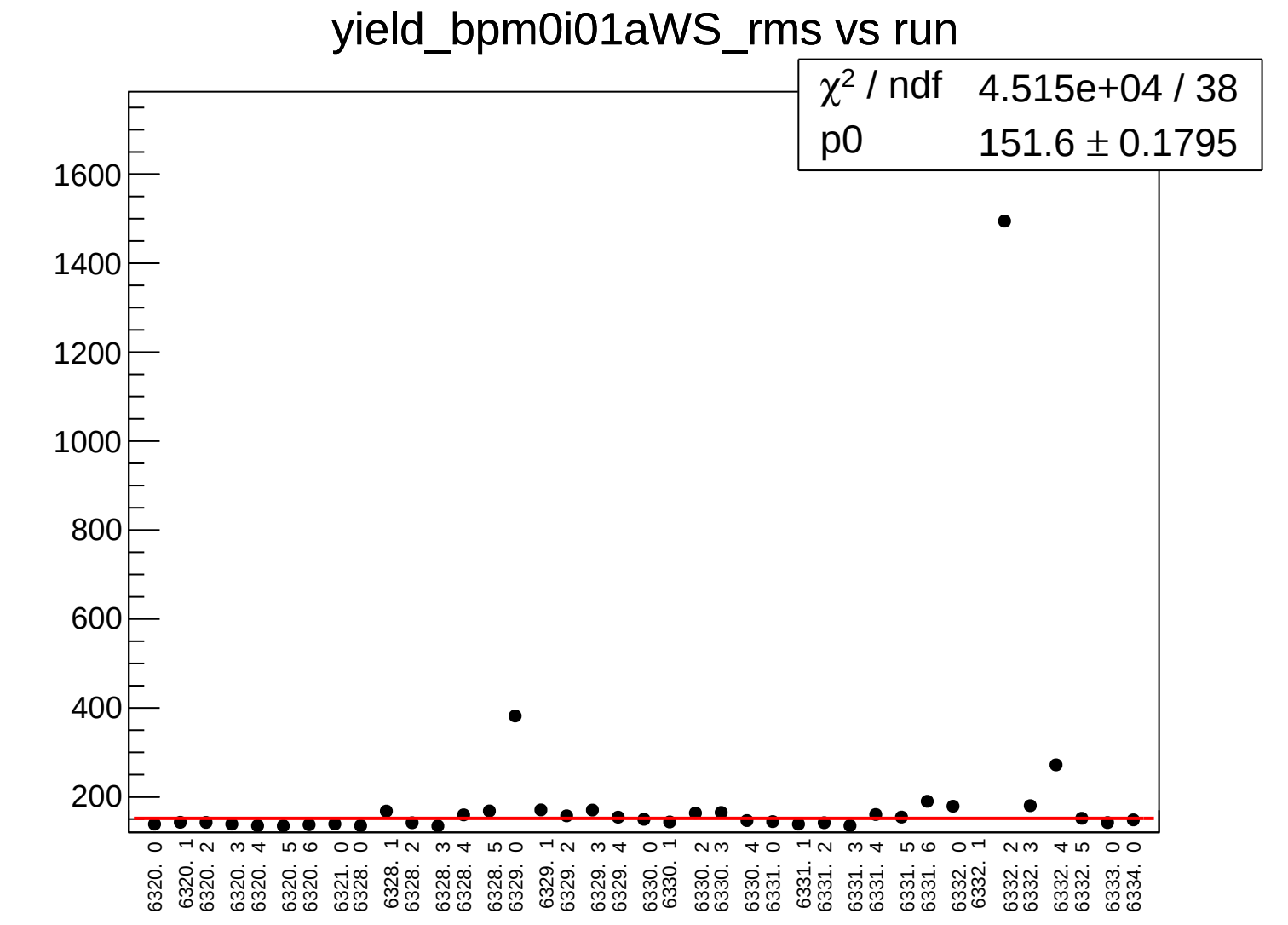

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 2.84e+05 / 38
p0 1.526e+05 ± 0.3102
153
152.5
152
151.5
151
150.5
150
149.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 141.1
Std Dev 0
200
150
100
50
0
−50
−100
−150

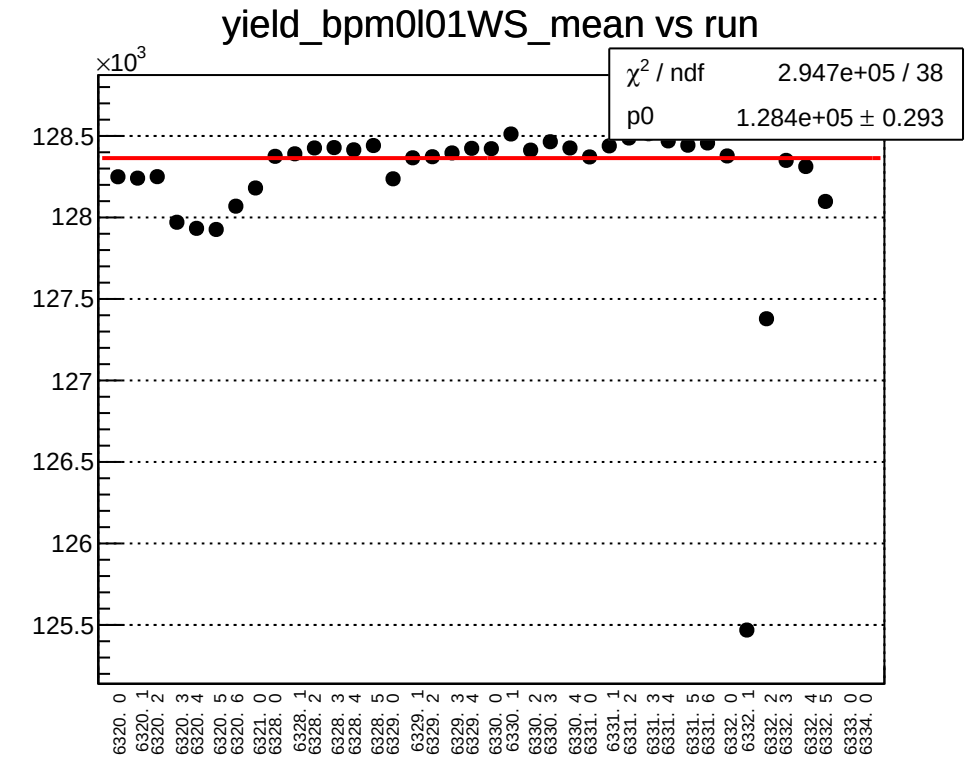

pull1D
Entries 39
Mean −5.801
Std Dev 0.4098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

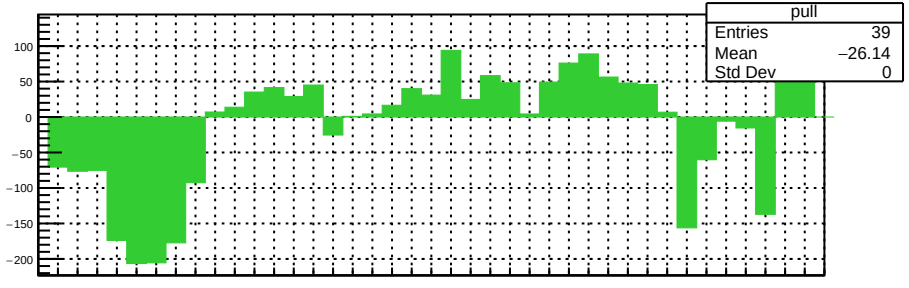

yield_bpm0i01WS_rms vs run
χ² / ndf 4.298e+04 / 38
p0 185.5 ± 0.2193
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

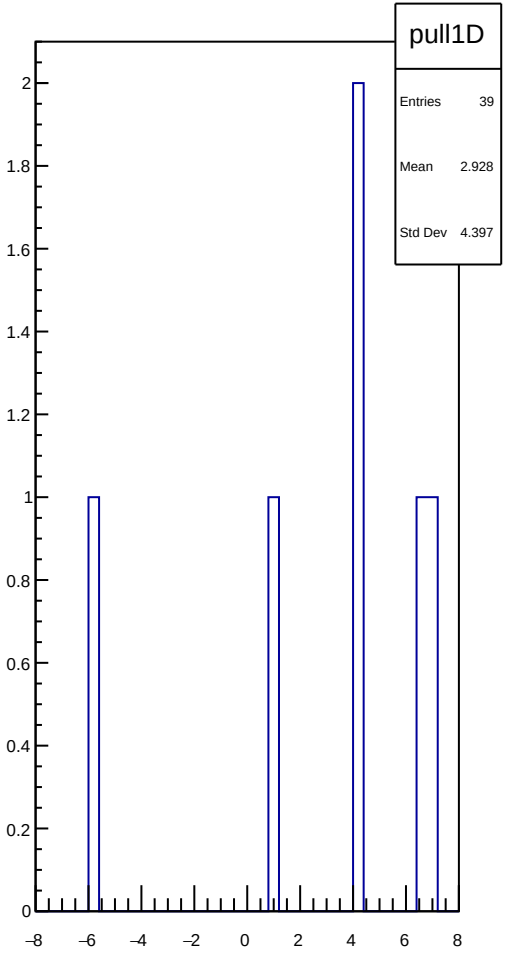

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.207e+04 / 38
p0 1.407e+05 ± 0.2539
141
140.5
140
139.5
139
138.5
138
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.45
Std Dev 0
50
0
−50
−100
−150

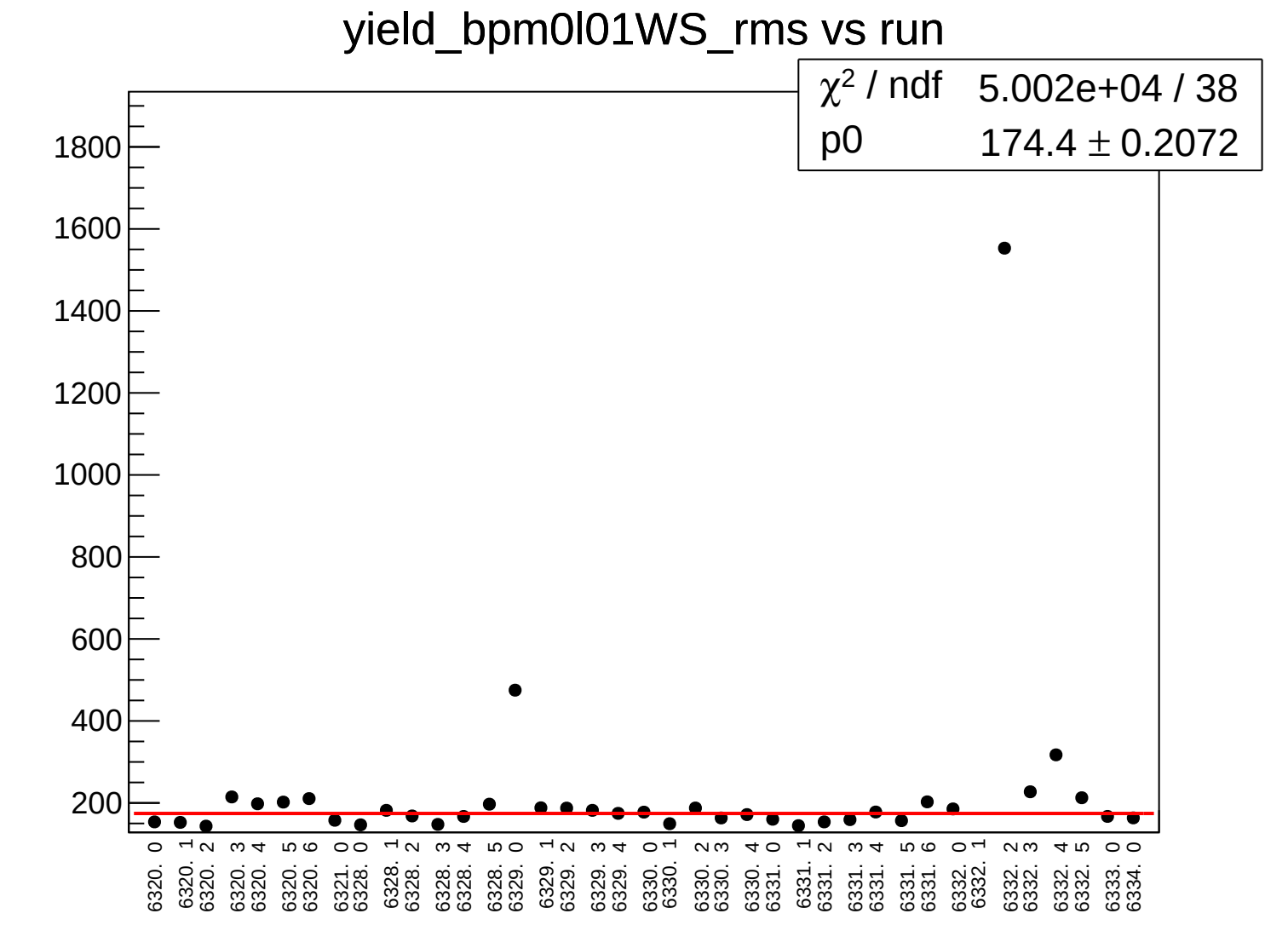

pull1D
Entries 39
Mean −0.06019
Std Dev 3.923
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

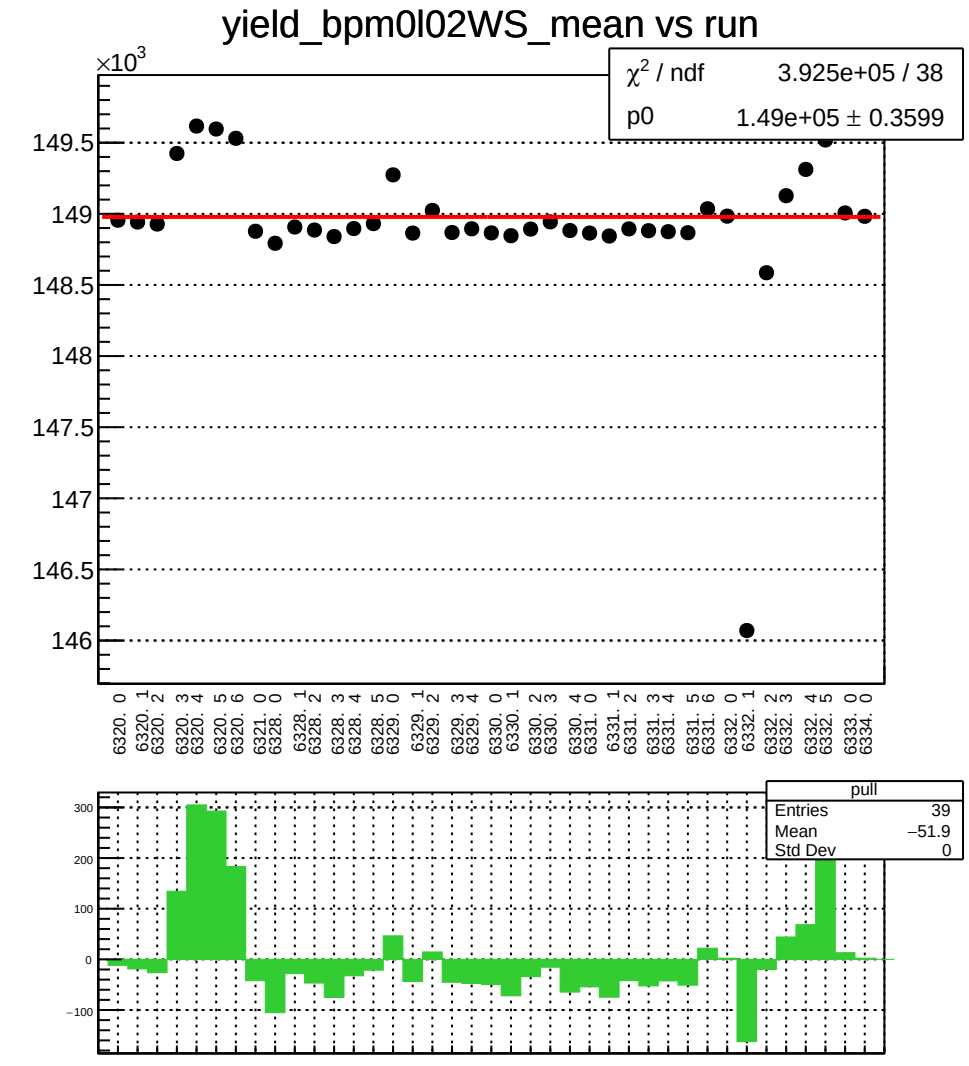

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.515e+04 / 38
p0 151.6 ± 0.1795
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

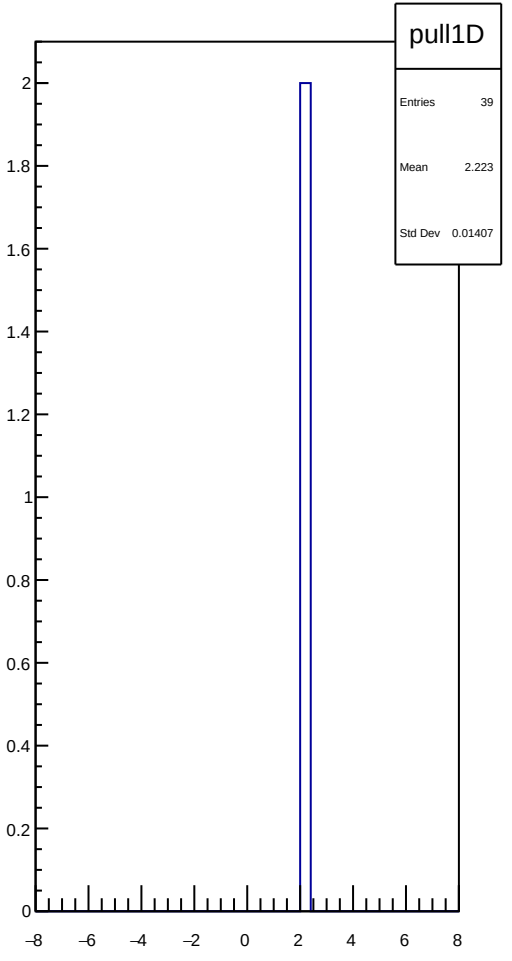

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.947e+05 / 38
p0 1.284e+05 ± 0.293
128.5
128
127.5
127
126.5
126
125.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

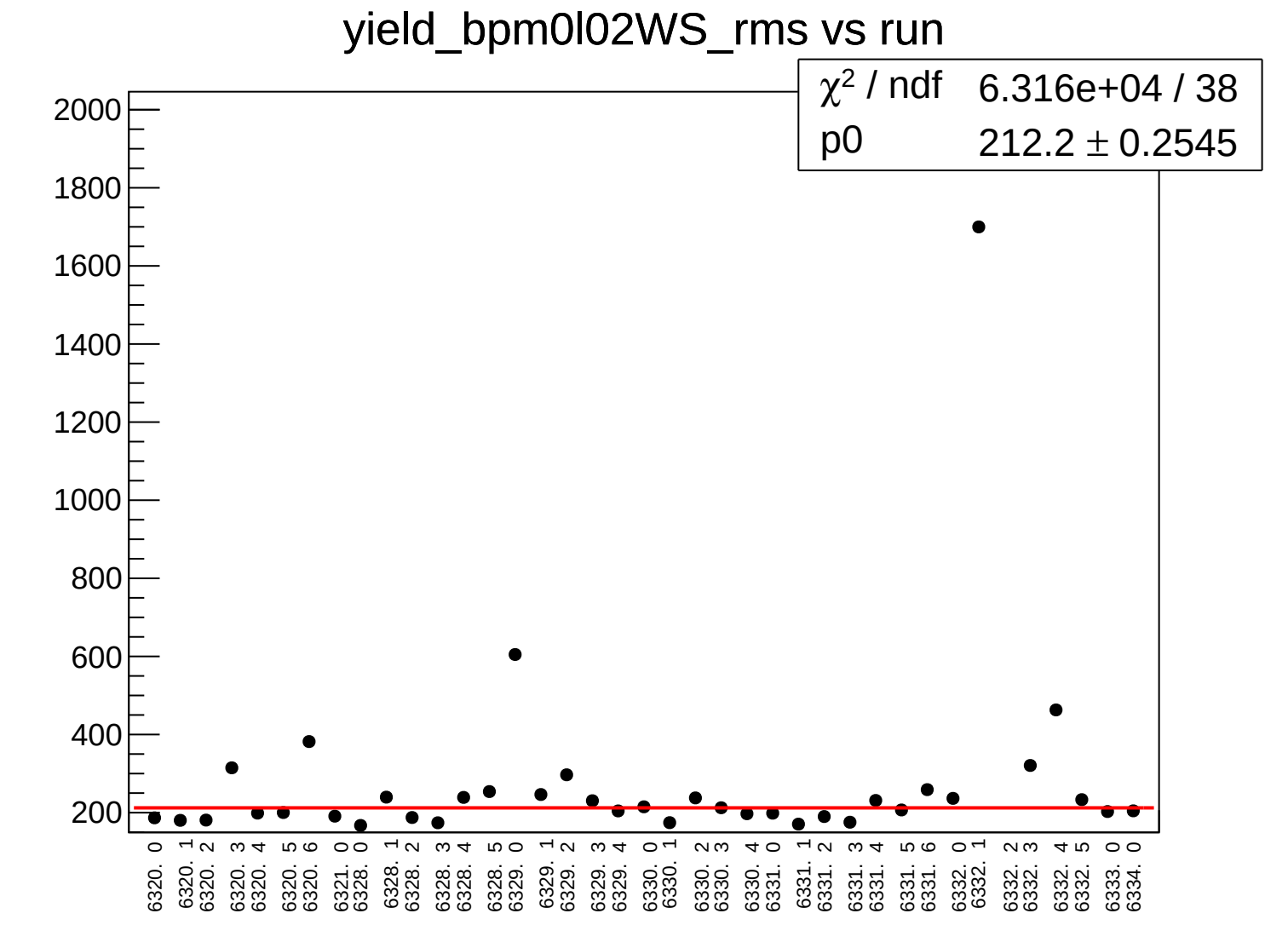

pull
Entries 39
Mean −26.14
Std Dev 0
100
50
0
−50
−100
−150
−200

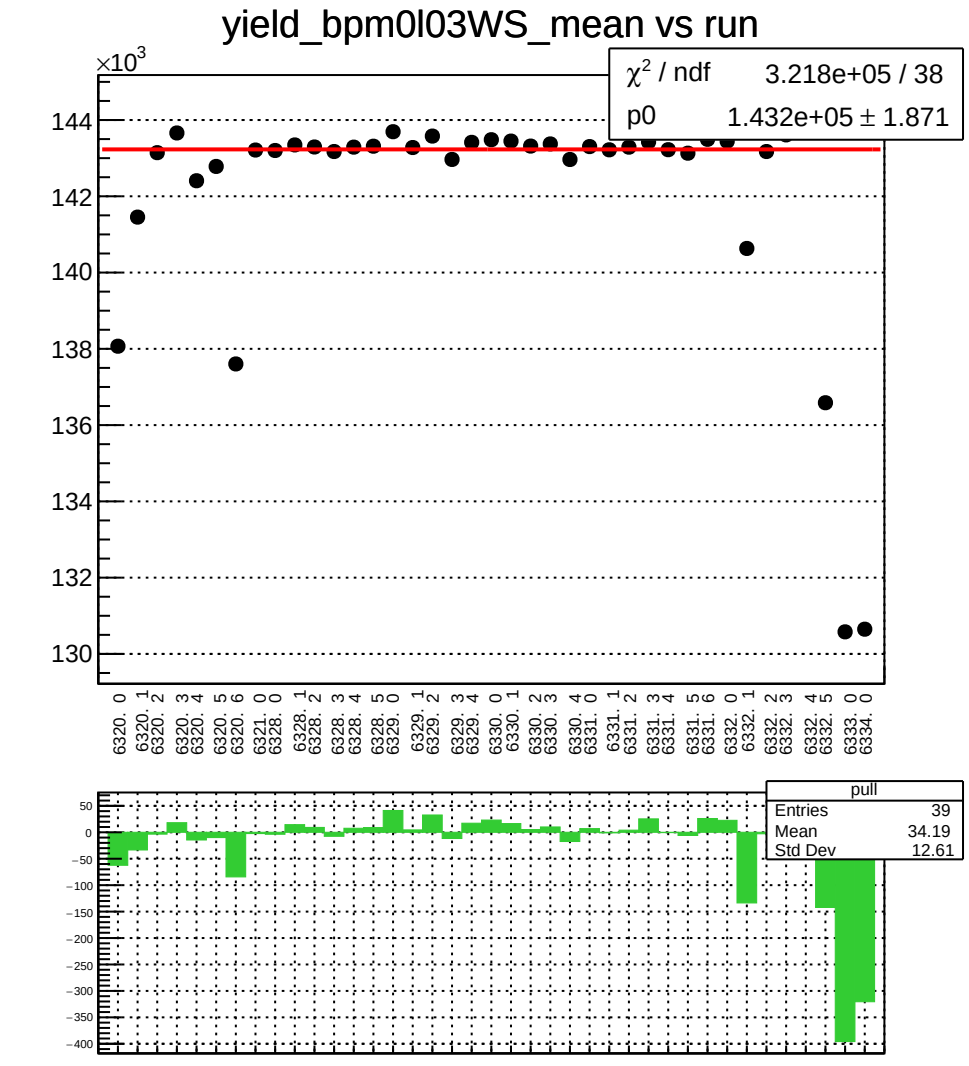

pull1D
Entries 39
Mean 2.928
Std Dev 4.397
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

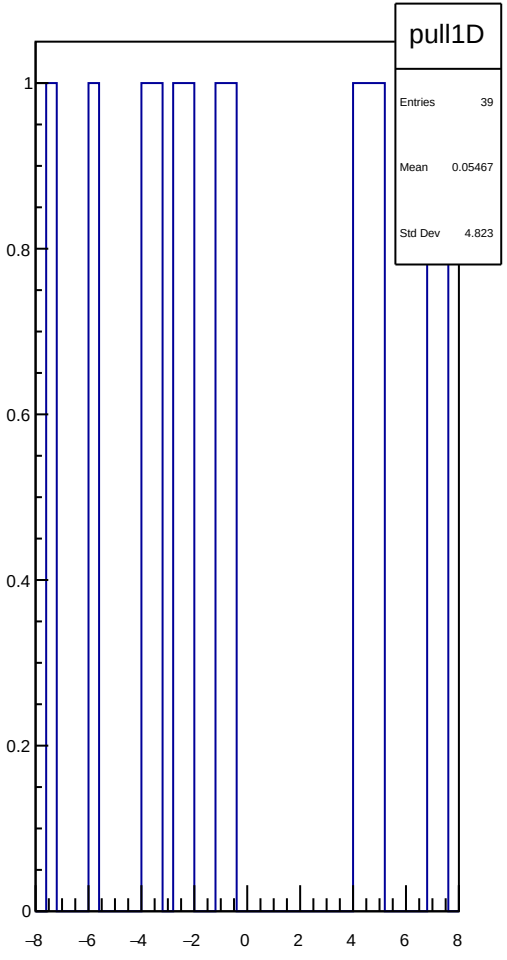

yield_bpm0l01WS_rms vs run
χ² / ndf 5.002e+04 / 38
p0 174.4 ± 0.2072
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

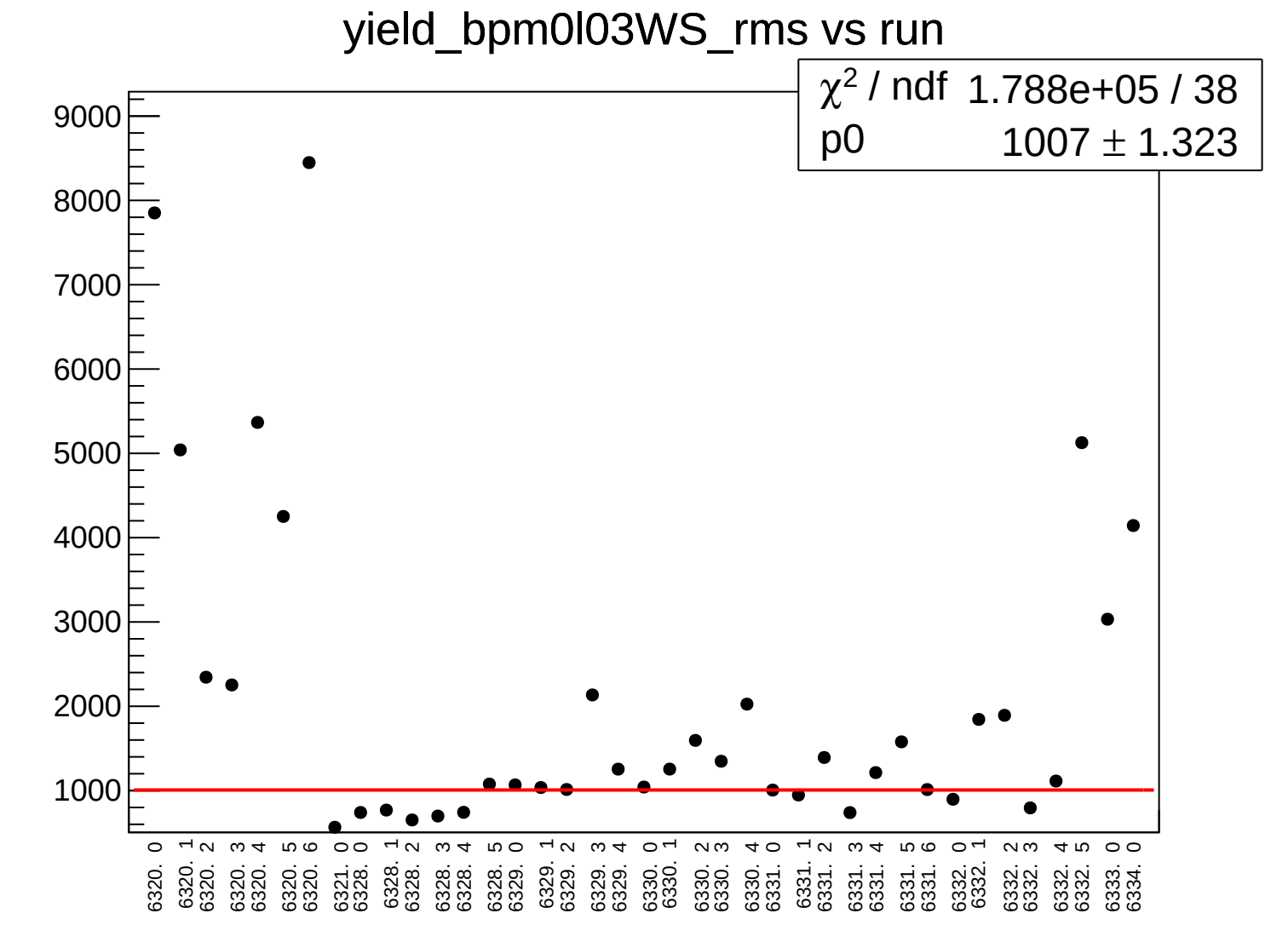

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.925e+05 / 38
p0 1.49e+05 ± 0.3599
149.5
149
148.5
148
147.5
147
146.5
146
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.9
Std Dev 0
300
200
100
0
−100

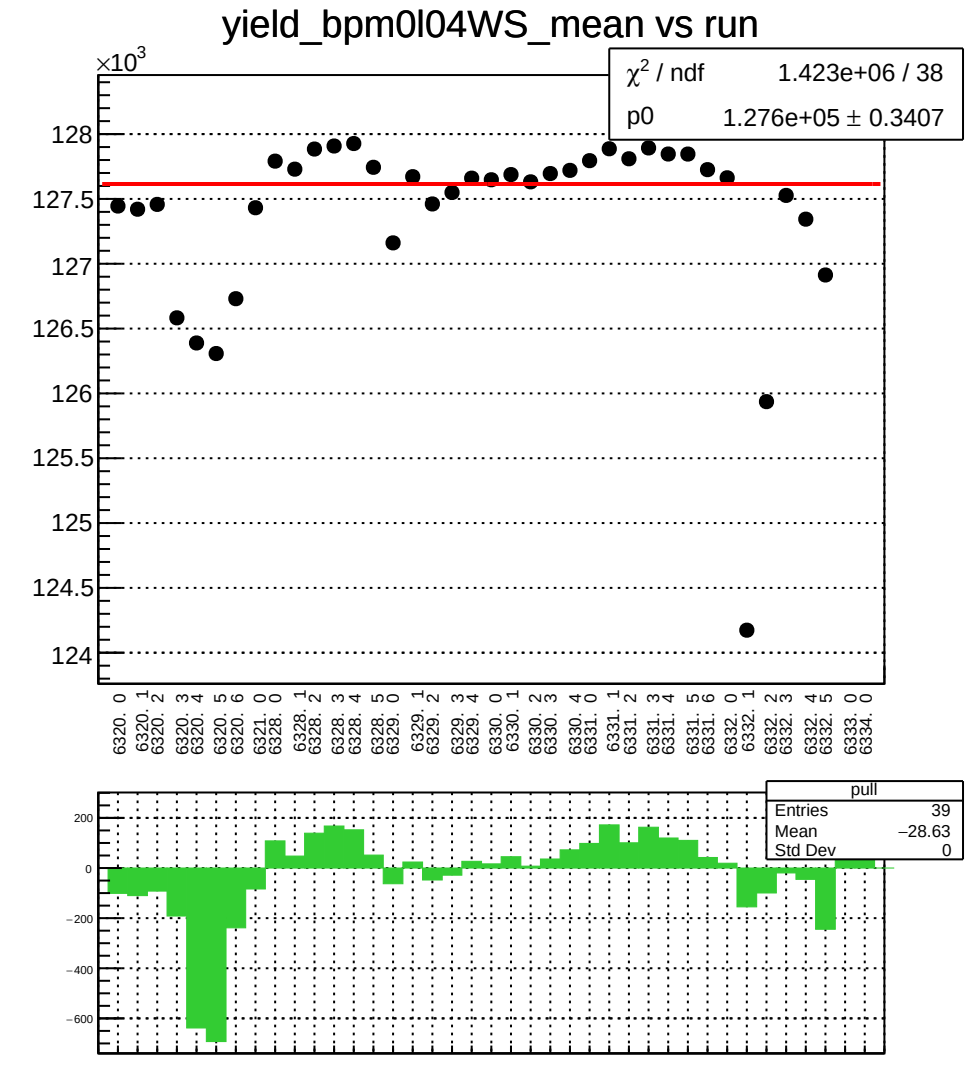

pull1D
Entries 39
Mean 2.223
Std Dev 0.01407
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

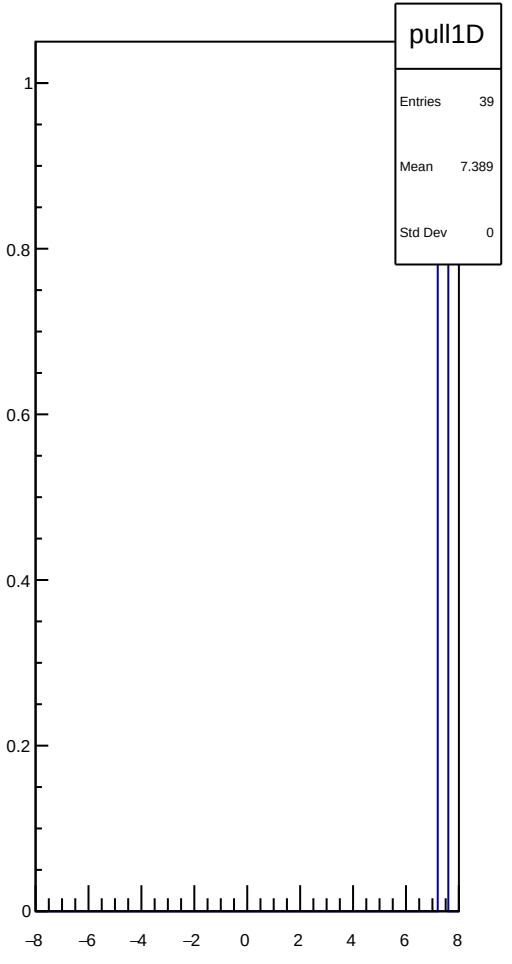

yield_bpm0l02WS_rms vs run
χ² / ndf 6.316e+04 / 38
p0 212.2 ± 0.2545
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

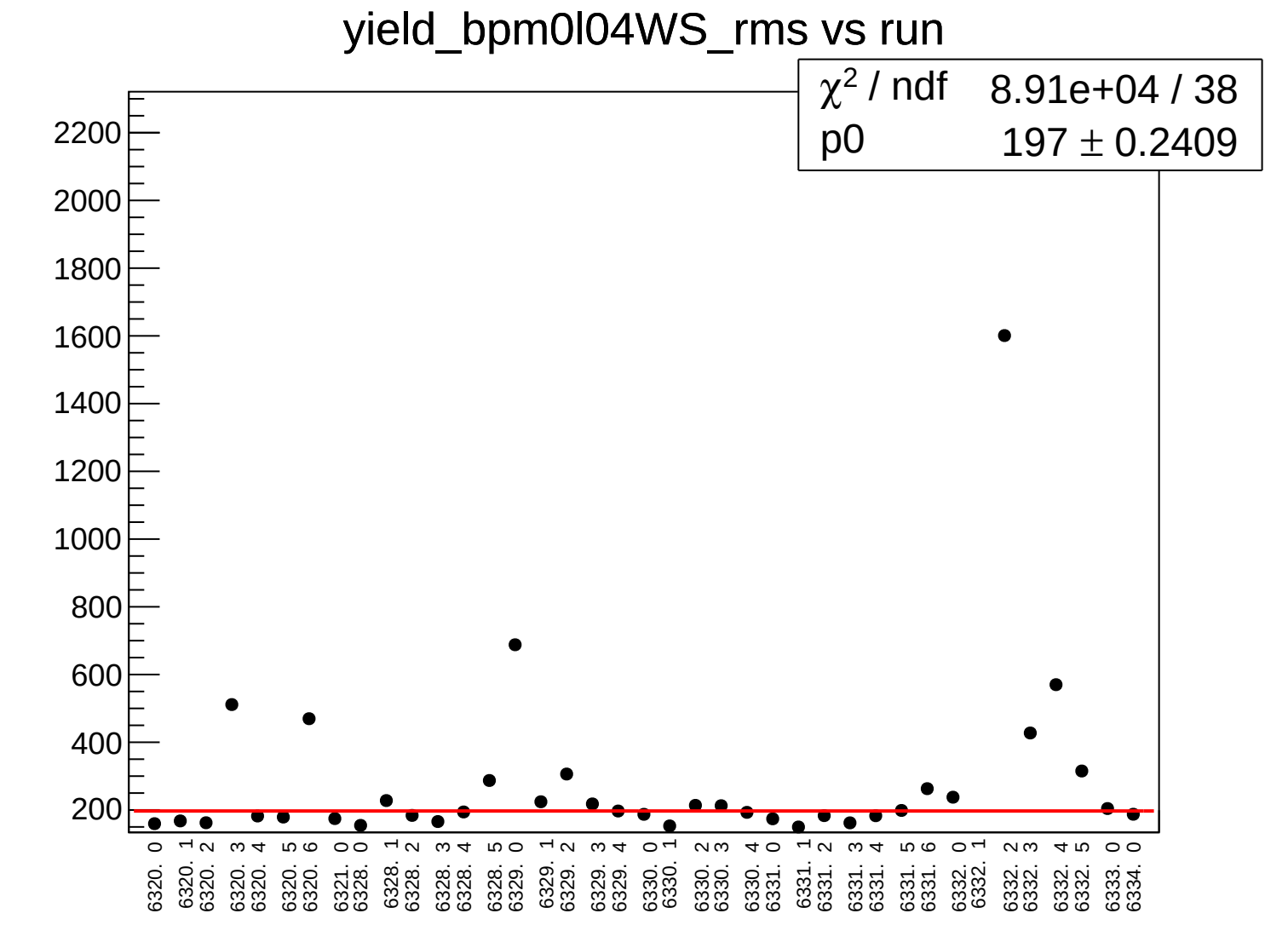

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.218e+05 / 38
p0 1.432e+05 ± 1.871
144
142
140
138
136
134
132
130
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.19
Std Dev 12.61
50
0
−50
−100
−150
−200
−250
−300
−350
−400

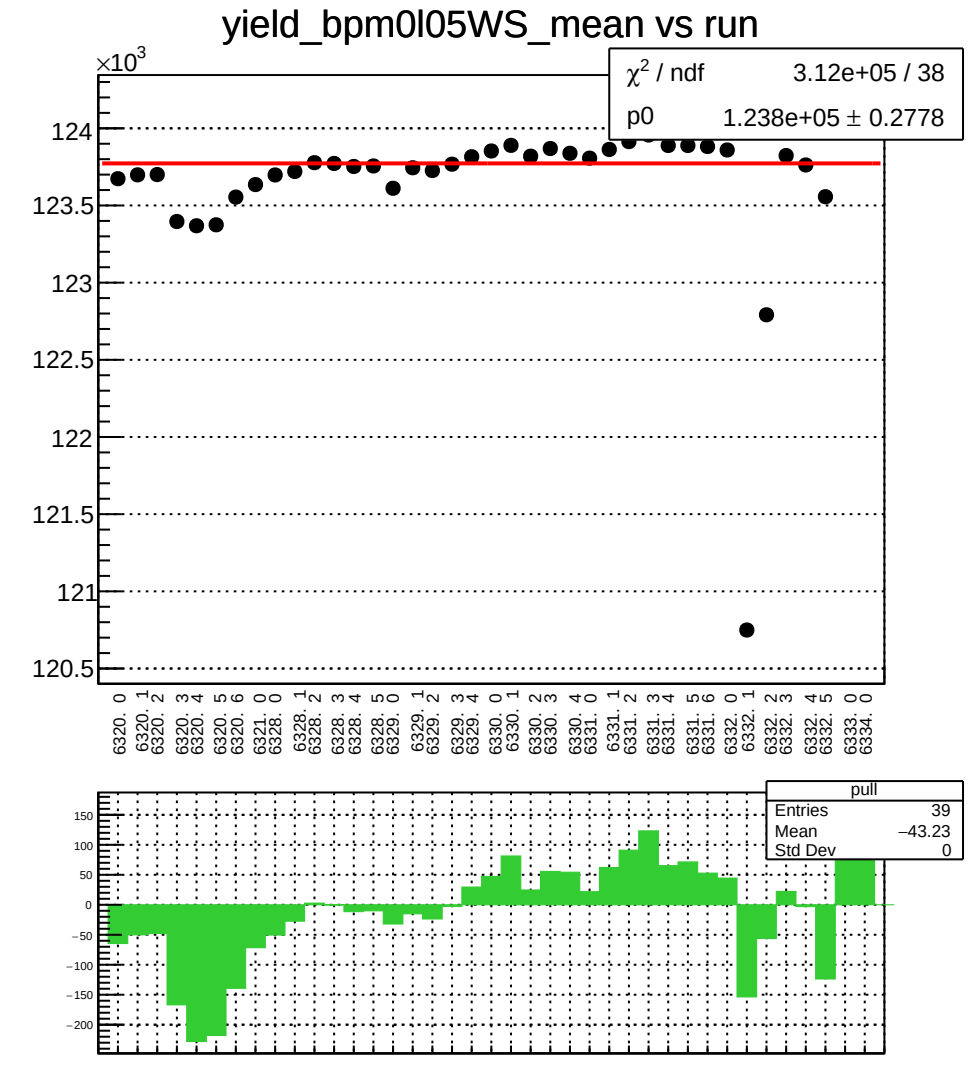

pull1D
Entries 39
Mean 0.05467
Std Dev 4.823
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

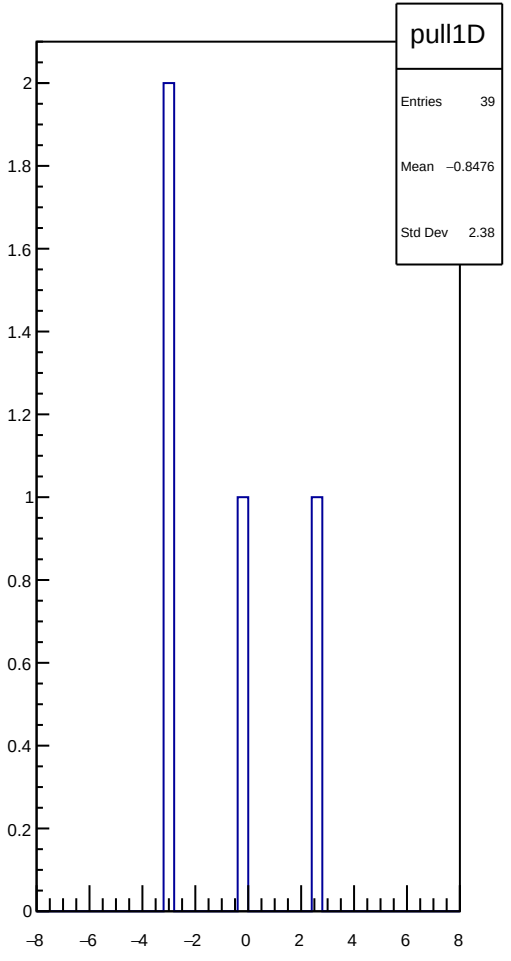

yield_bpm0l03WS_rms vs run
χ² / ndf 1.788e+05 / 38
p0 1007 ± 1.323
9000
8000
7000
6000
5000
4000
3000
2000
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

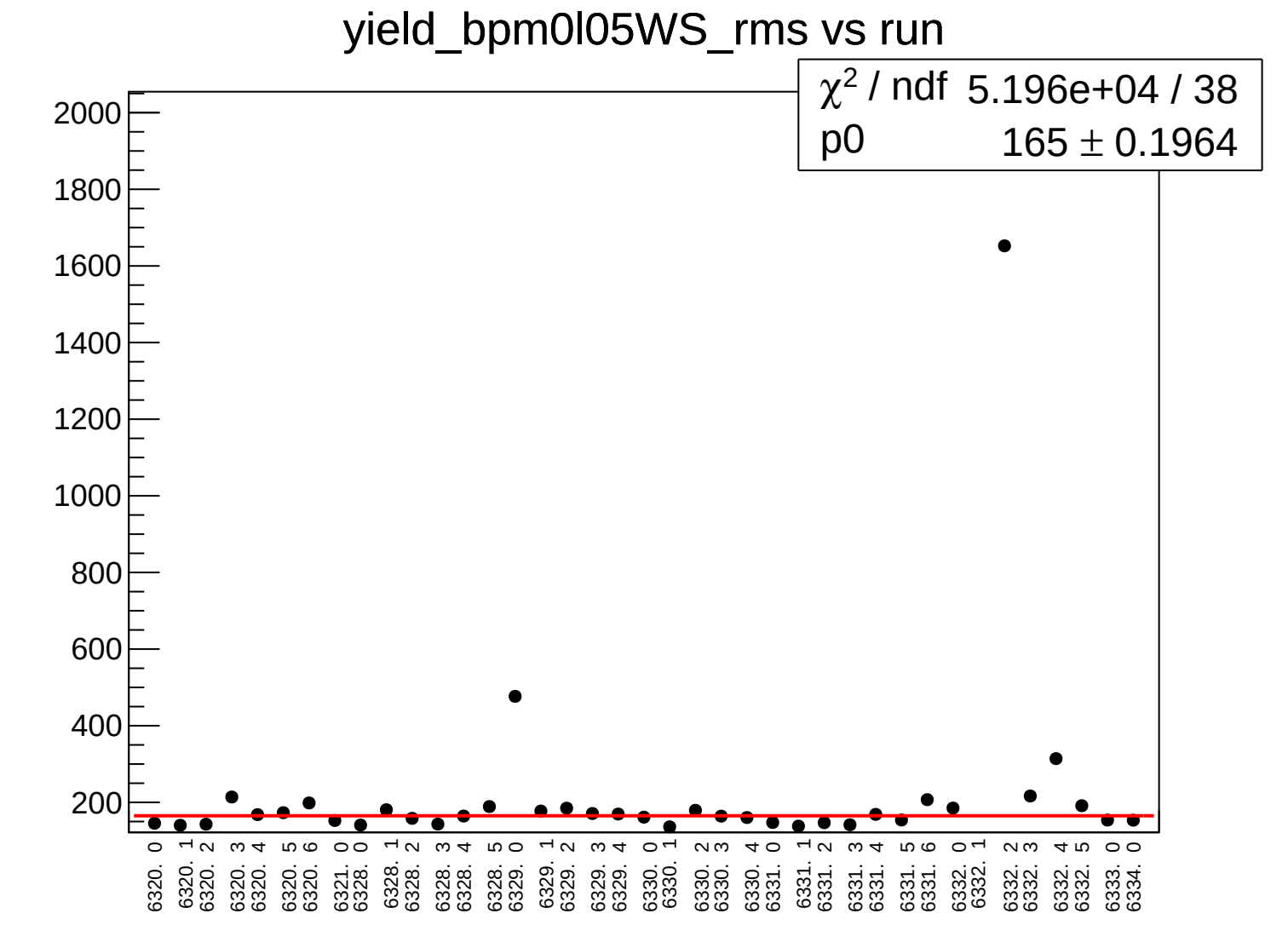

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 1.423e+06 / 38
p0 1.276e+05 ± 0.3407
128
127.5
127
126.5
126
125.5
125
124.5
124
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.63
Std Dev 0
200
0
−200
−400
−600

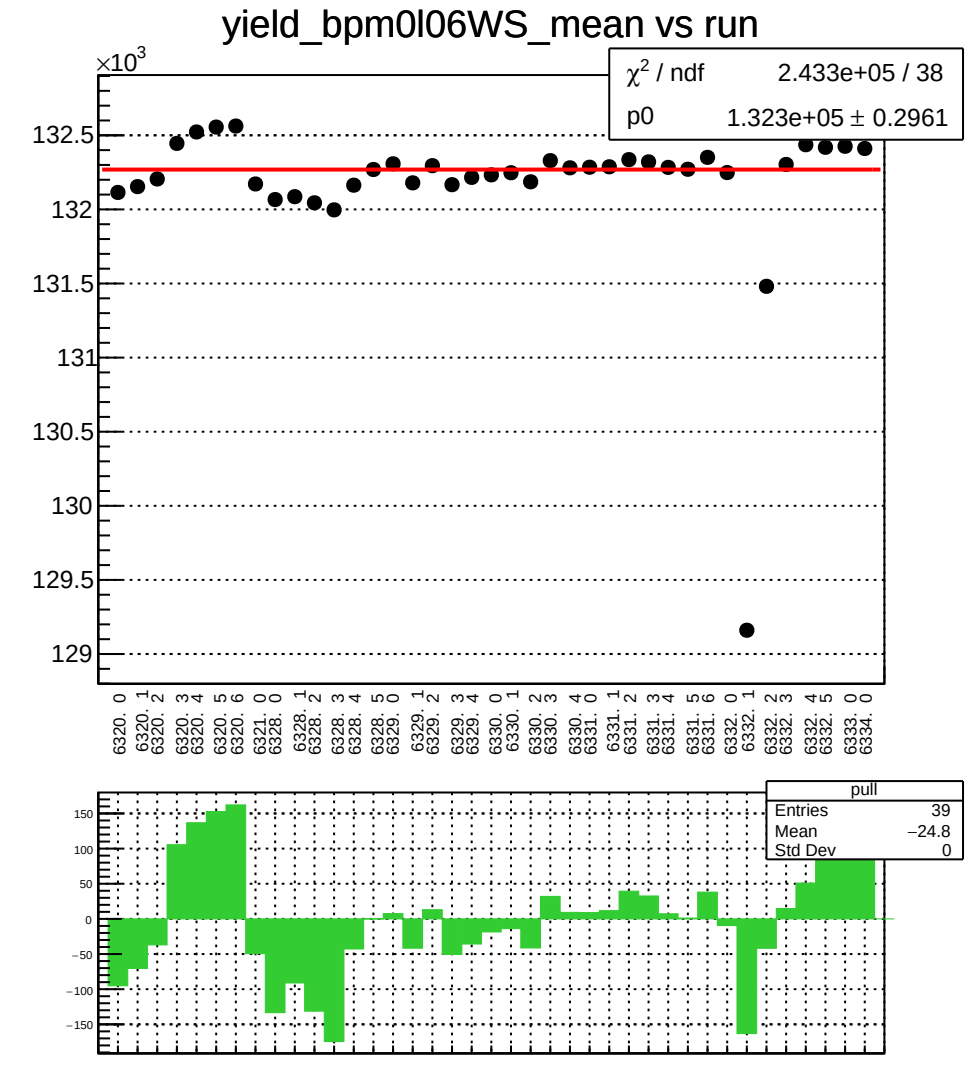

pull1D
Entries 39
Mean 7.389
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

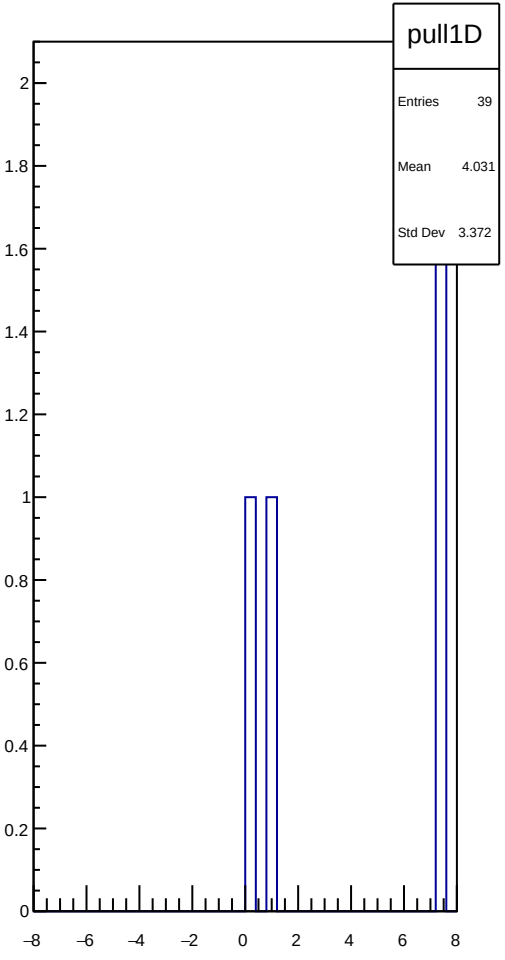

yield_bpm0l04WS_rms vs run
χ² / ndf 8.91e+04 / 38
p0 197 ± 0.2409
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

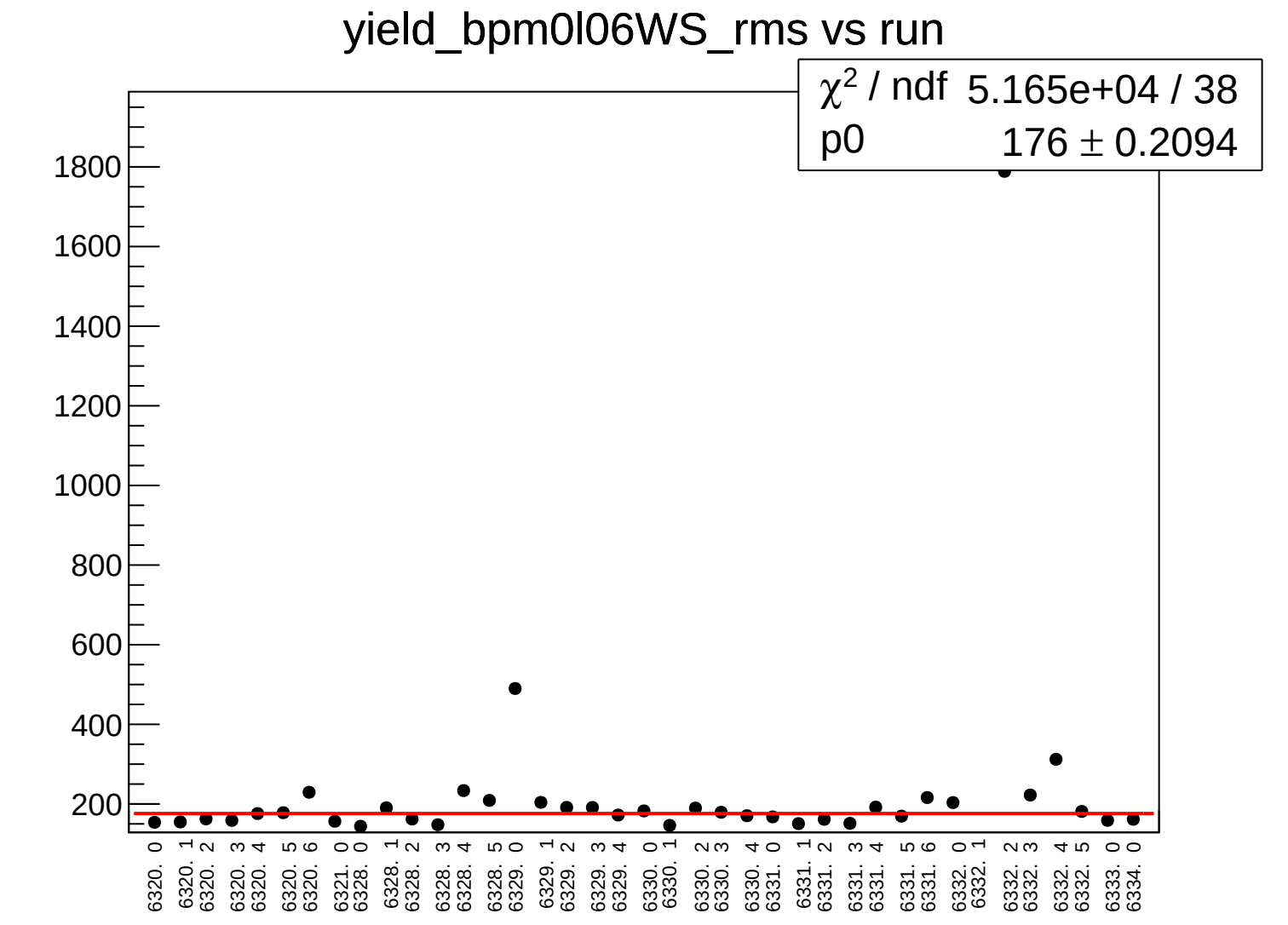

yield_bpm0l05WS_mean vs run
χ² / ndf 3.12e+05 / 38
p0 1.238e+05 ± 0.2778
×10³
pull
Entries 39
Mean −43.23
Std Dev 0

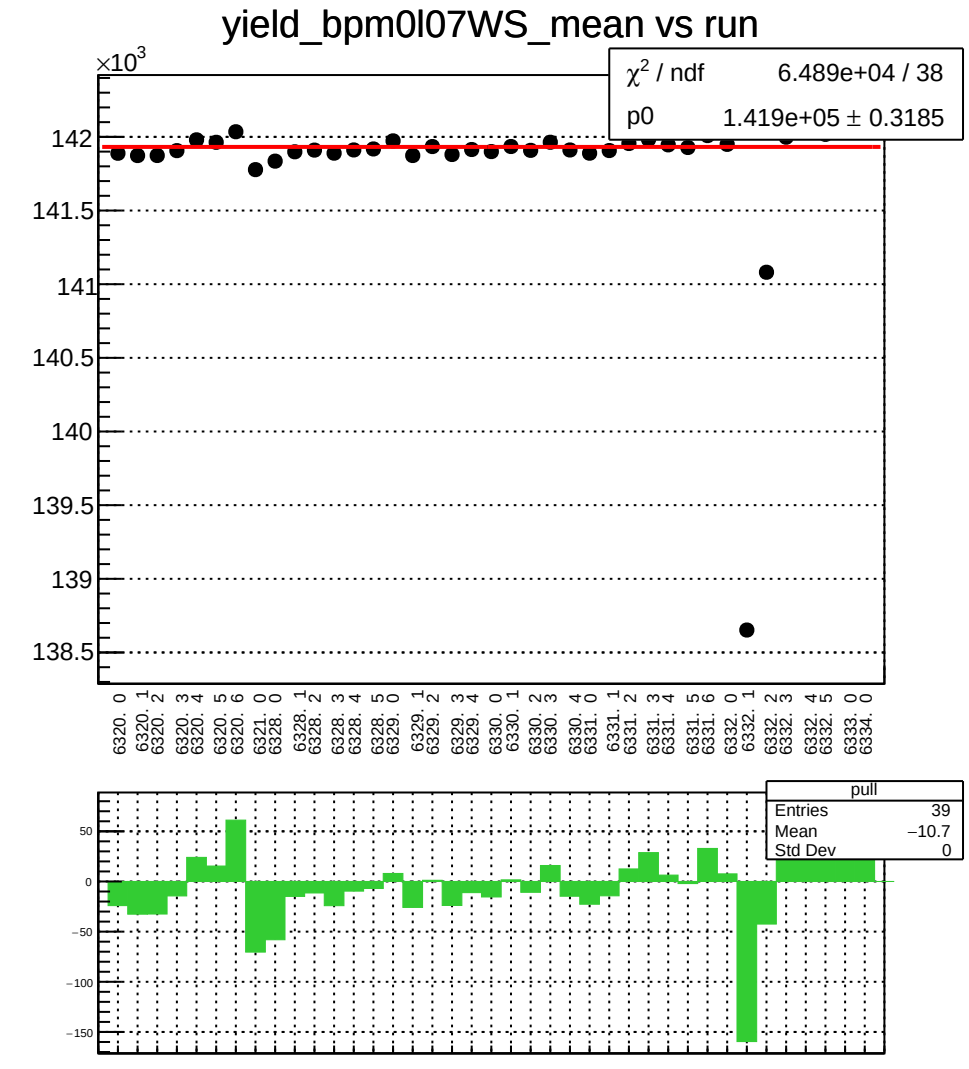

pull1D
Entries 39
Mean −0.8476
Std Dev 2.38

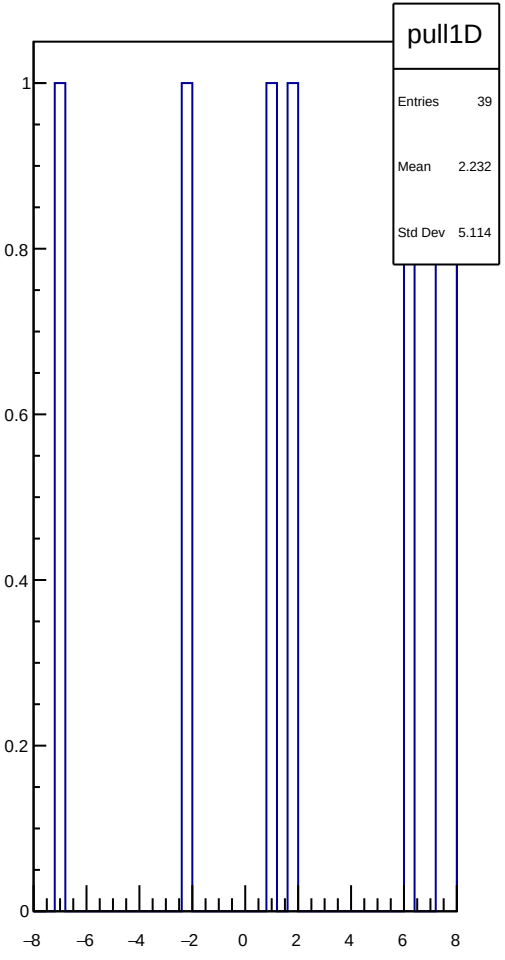

yield_bpm0l05WS_rms vs run
χ² / ndf 5.196e+04 / 38
p0 165 ± 0.1964
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

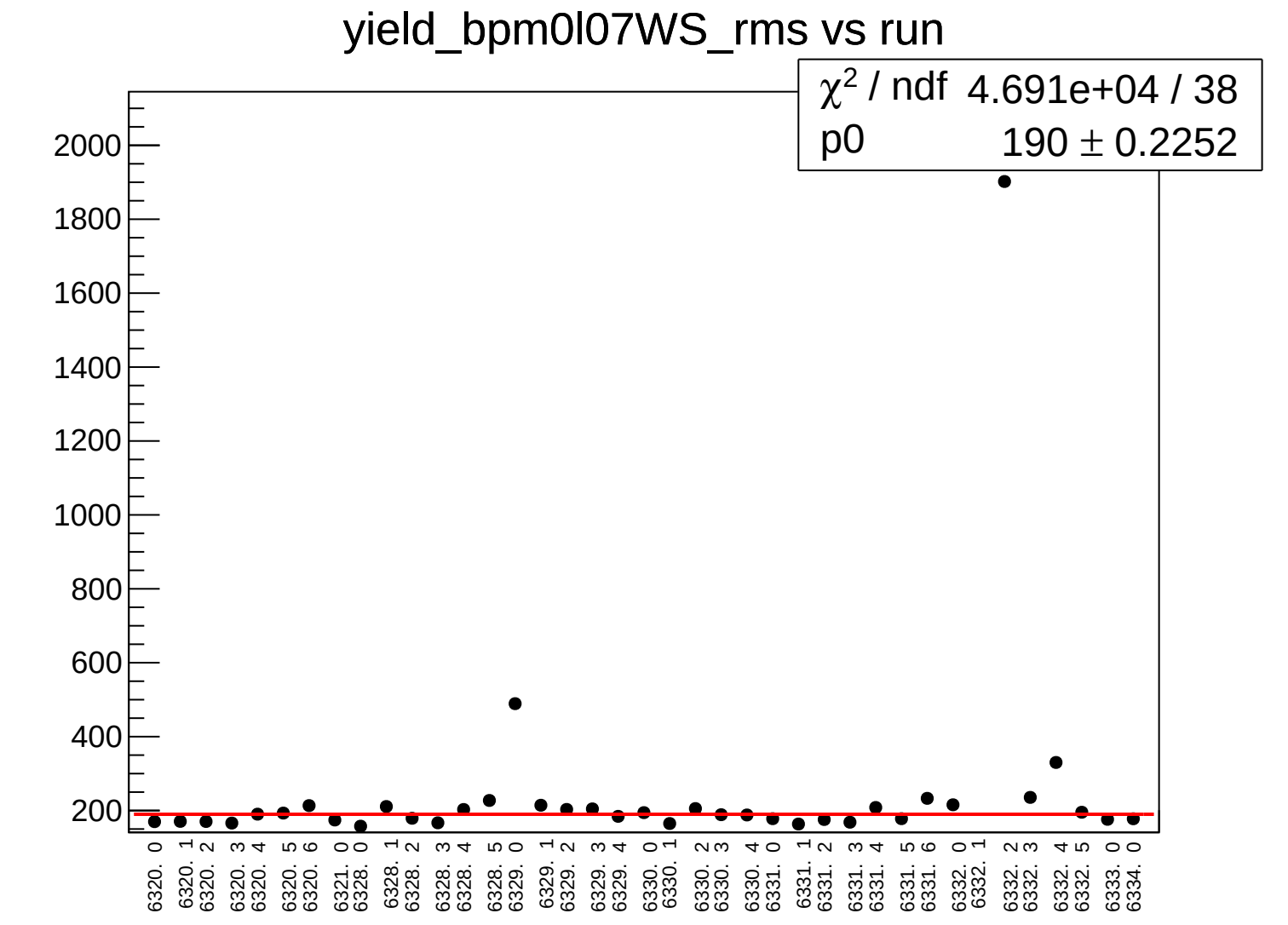

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.433e+05 / 38
p0 1.323e+05 ± 0.2961
132.5
132
131.5
131
130.5
130
129.5
129
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.8
Std Dev 0
150
100
50
0
−50
−100
−150

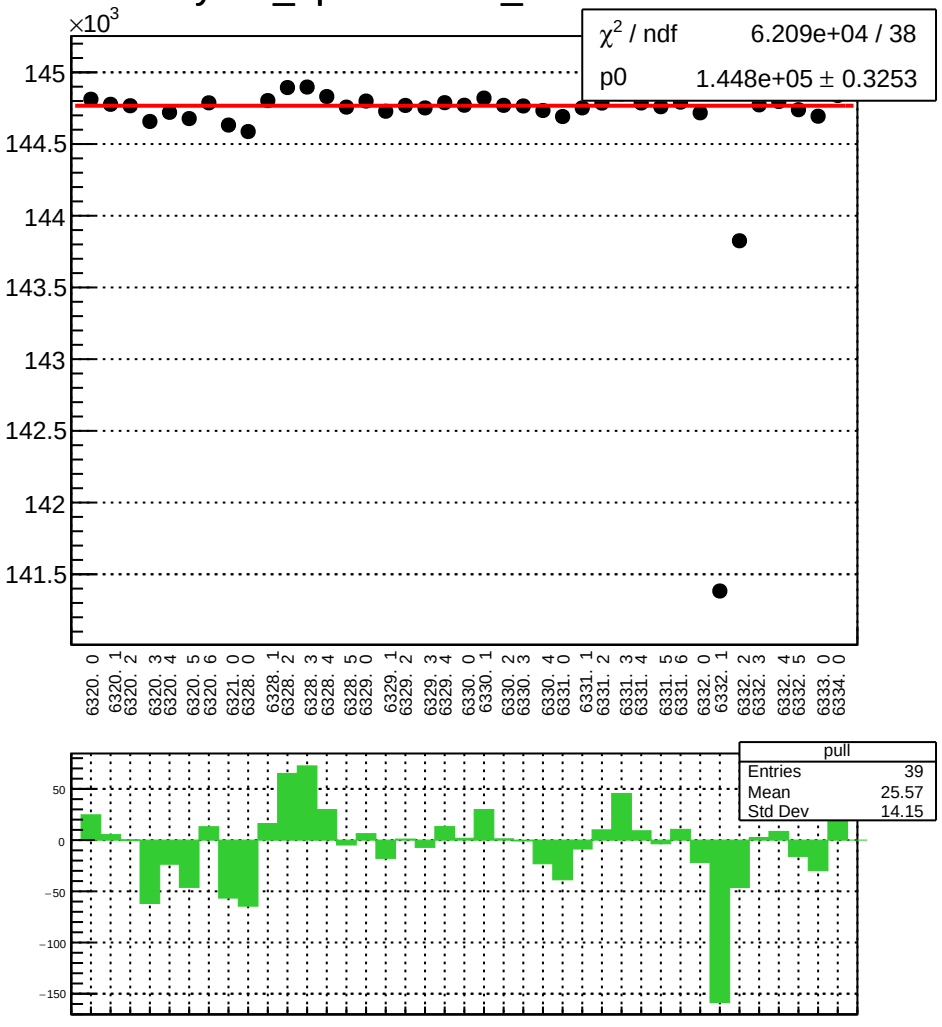

pull1D
Entries 39
Mean 4.031
Std Dev 3.372
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

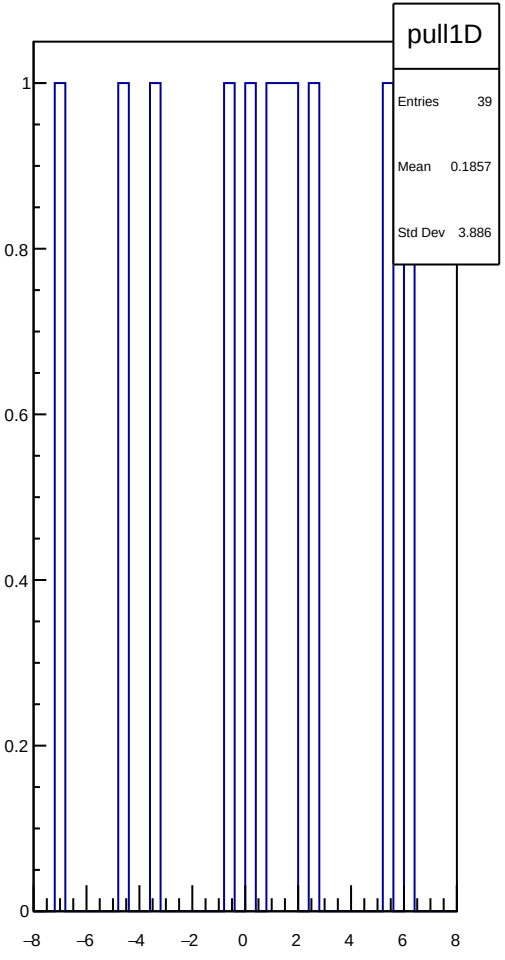

yield_bpm0l06WS_rms vs run
χ² / ndf 5.165e+04 / 38
p0 176 ± 0.2094
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

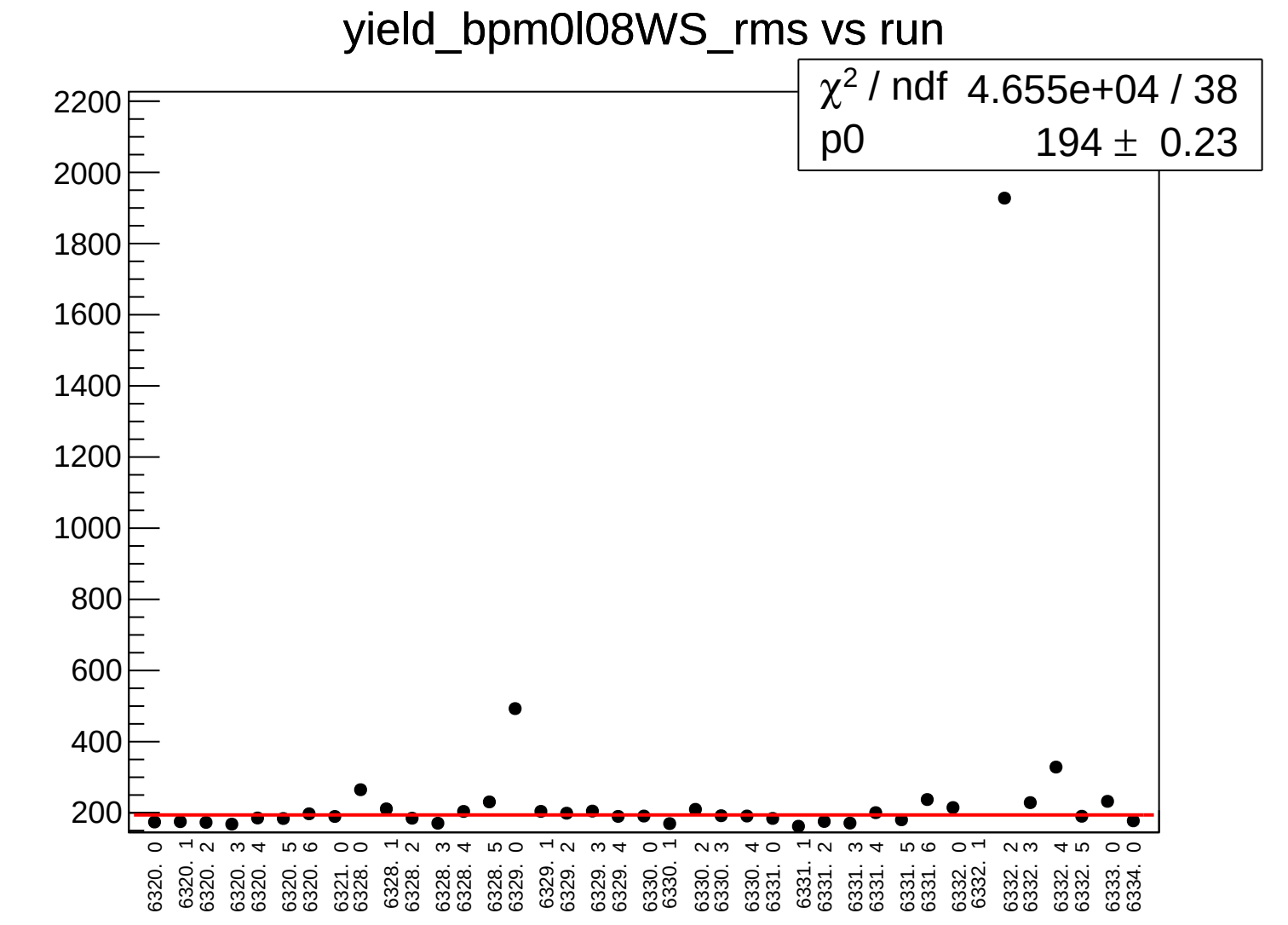

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 6.489e+04 / 38
p0 1.419e+05 ± 0.3185
142
141.5
141
140.5
140
139.5
139
138.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.7
Std Dev 0
50
0
−50
−100
−150

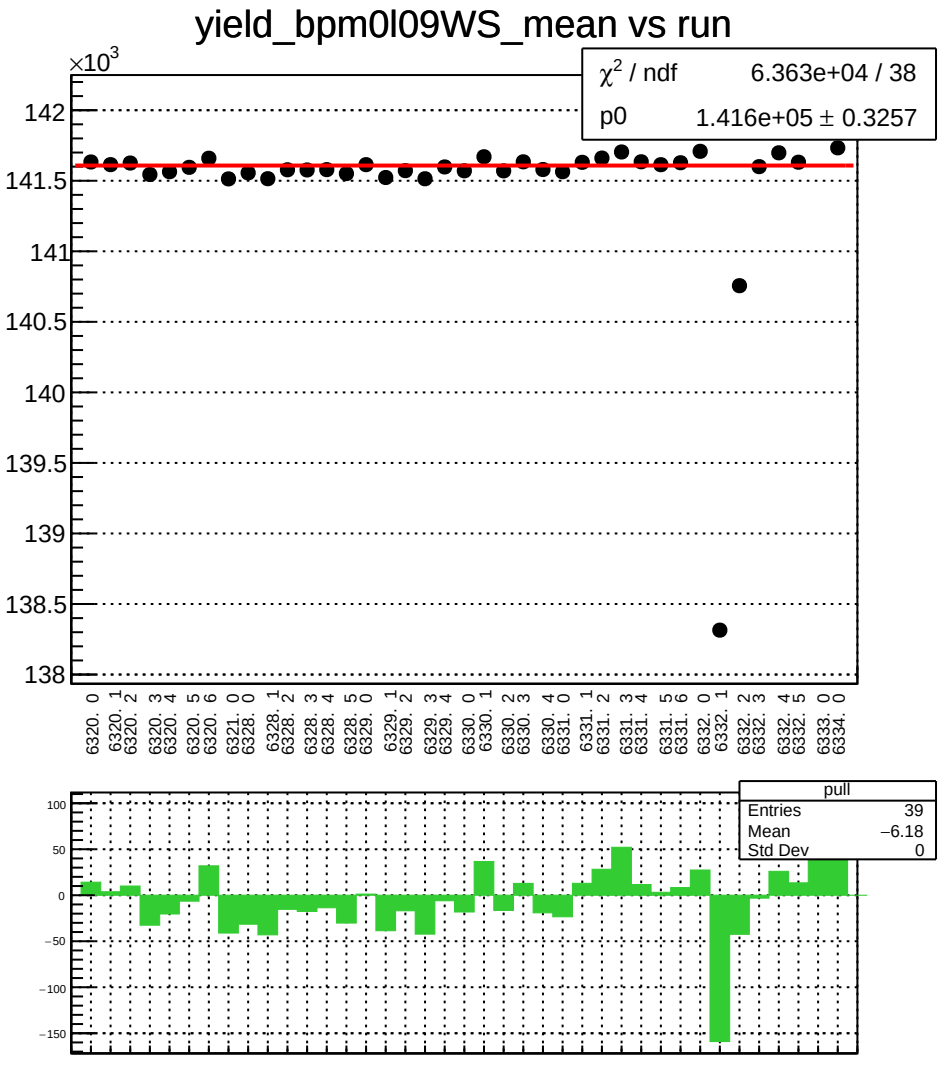

pull1D
Entries 39
Mean 2.232
Std Dev 5.114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

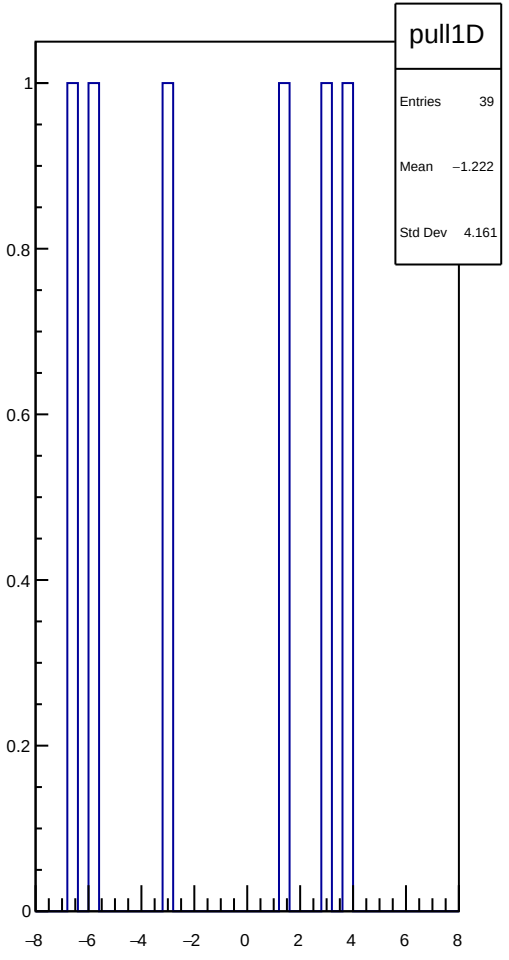

yield_bpm0l07WS_rms vs run
χ² / ndf 4.691e+04 / 38
p0 190 ± 0.2252
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

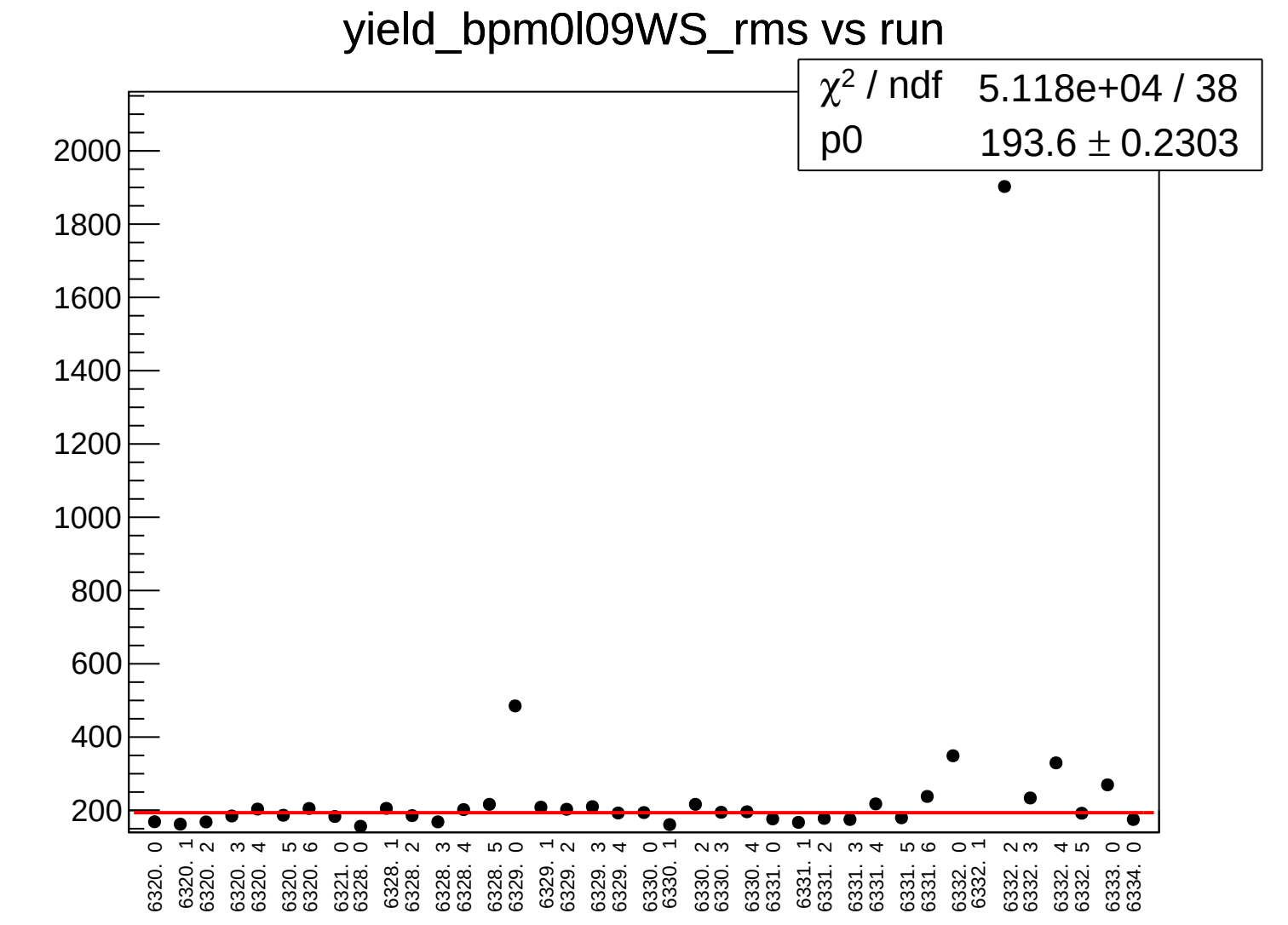

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 6.209e+04 / 38
p0 1.448e+05 ± 0.3253
145
144.5
144
143.5
143
142.5
142
141.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 25.57
Std Dev 14.15
50
0
−50
−100
−150

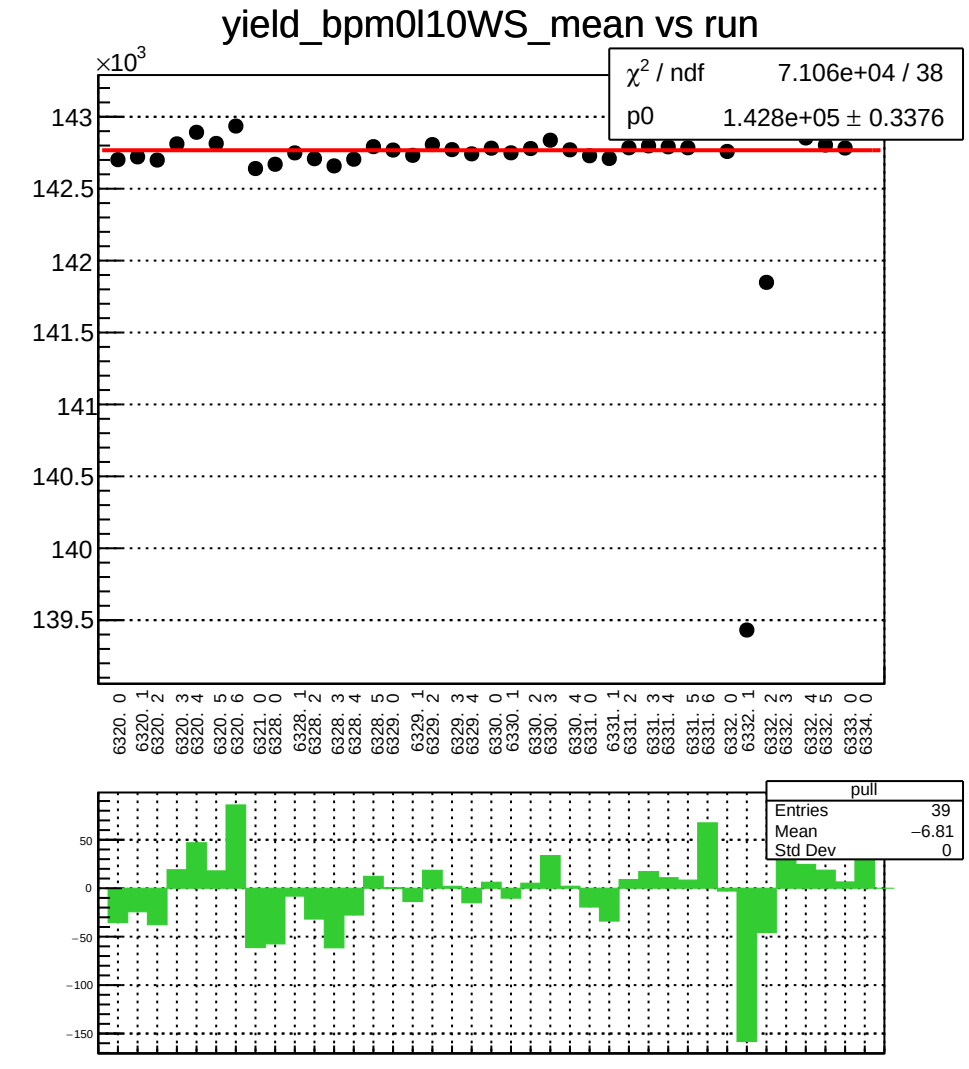

pull1D
Entries 39
Mean 0.1857
Std Dev 3.886
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

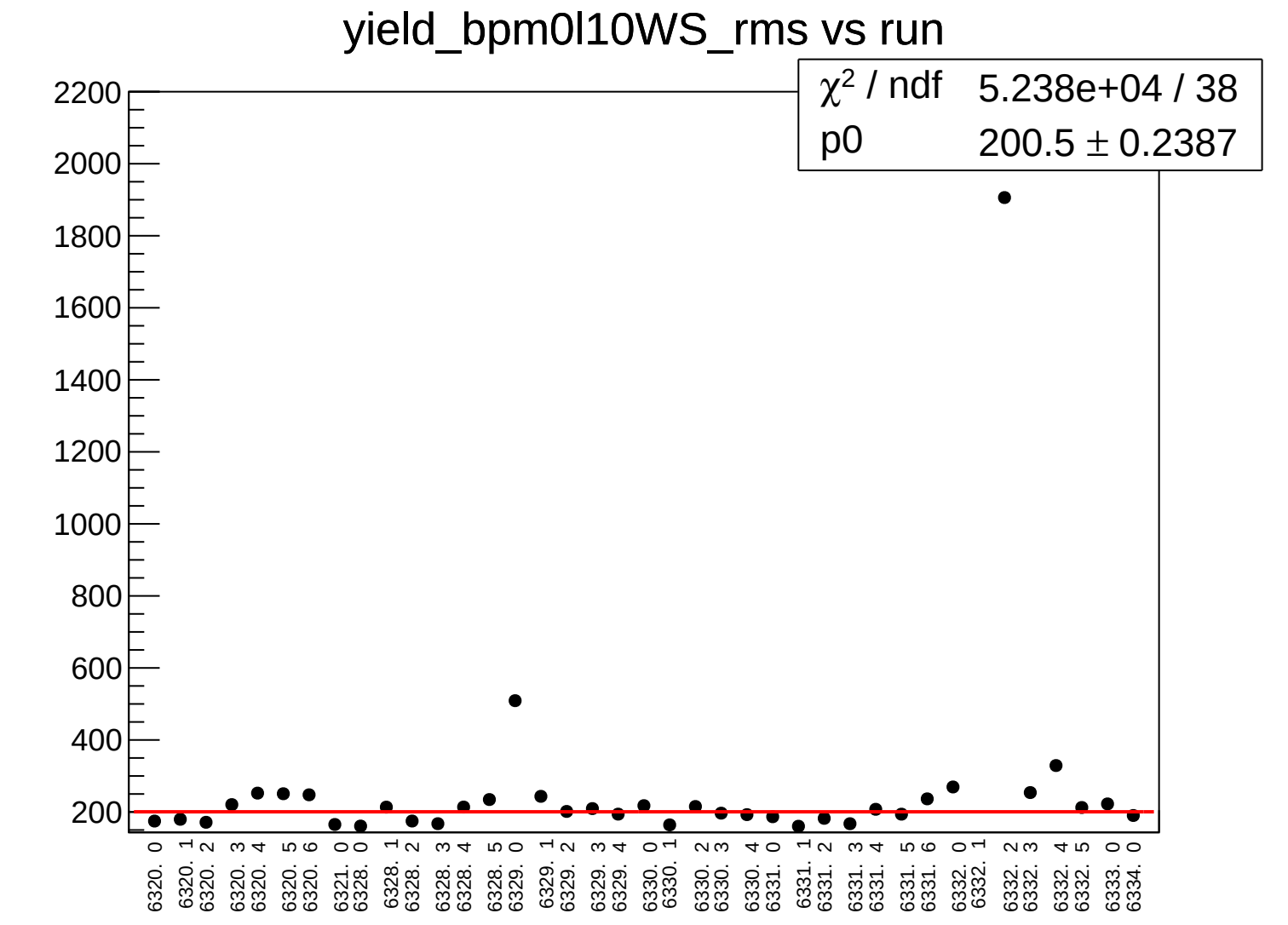

yield_bpm0l08WS_rms vs run
χ² / ndf 4.655e+04 / 38
p0 194 ± 0.23
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

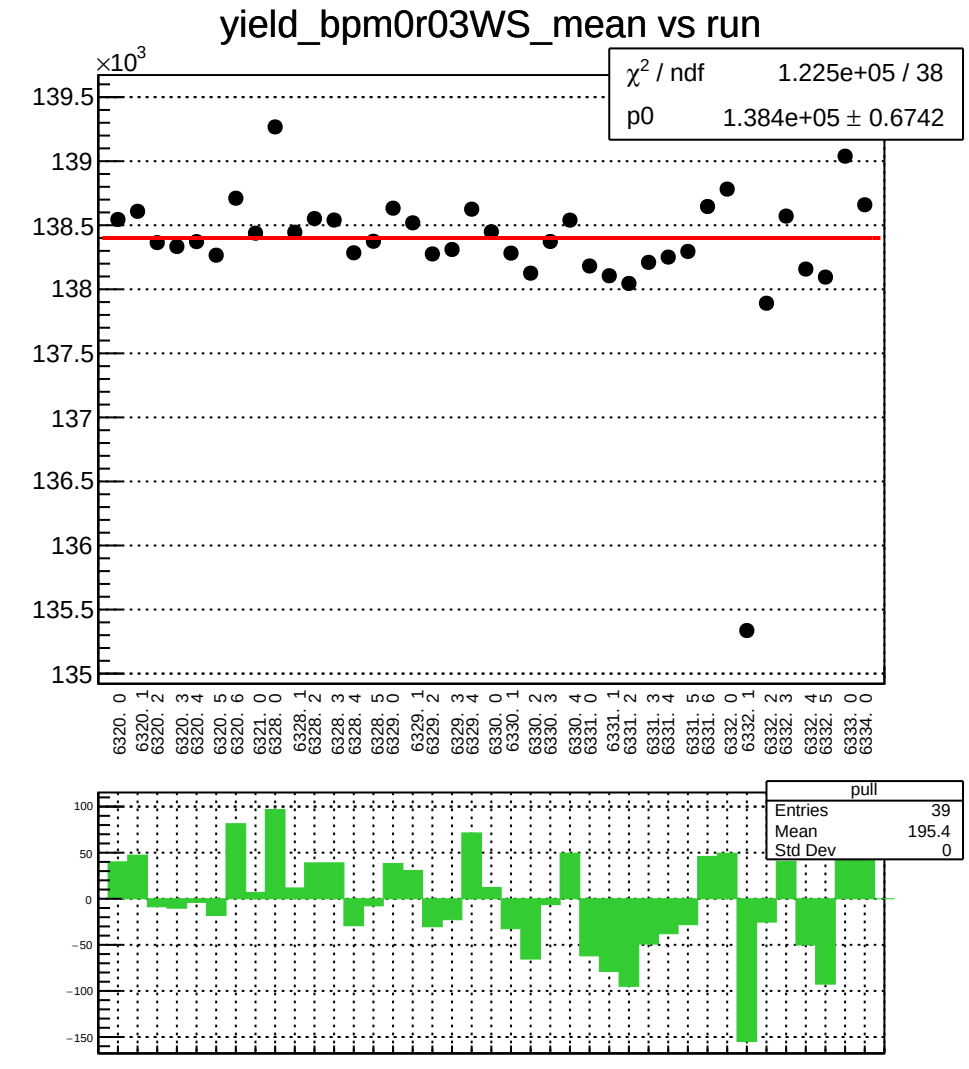

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 6.363e+04 / 38
p0 1.416e+05 ± 0.3257
142
141.5
141
140.5
140
139.5
139
138.5
138
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.18
Std Dev 0
100
50
0
−50
−100
−150

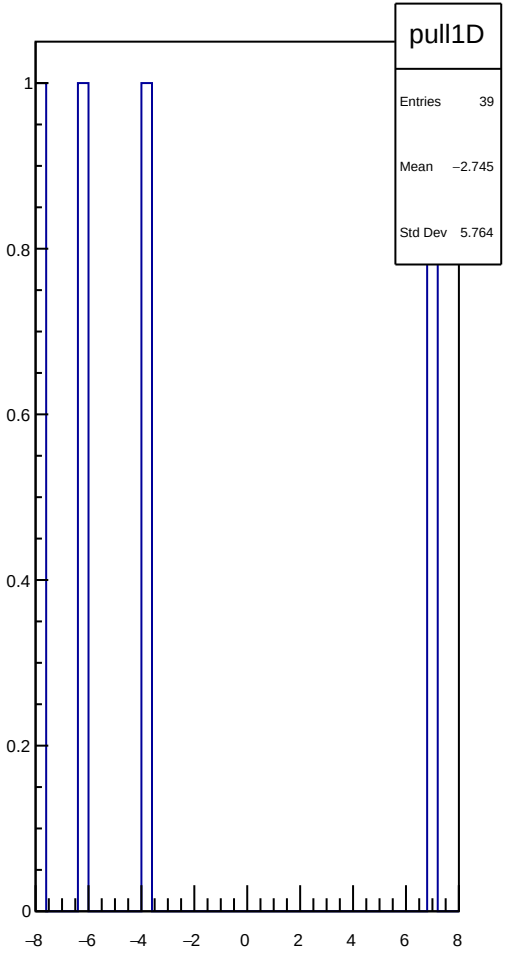

pull1D
Entries 39
Mean −1.222
Std Dev 4.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

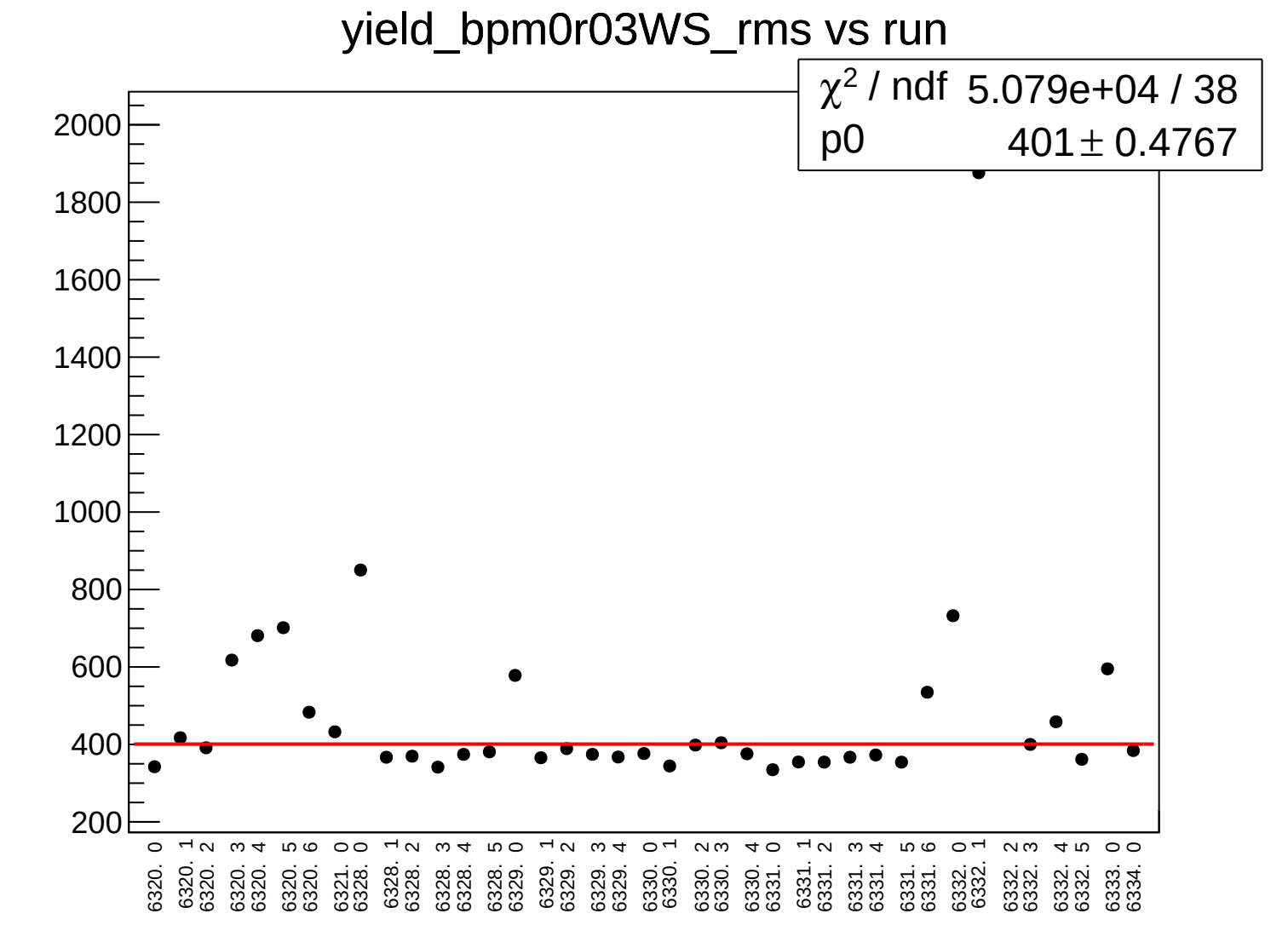

yield_bpm0l09WS_rms vs run
χ² / ndf 5.118e+04 / 38
p0 193.6 ± 0.2303
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

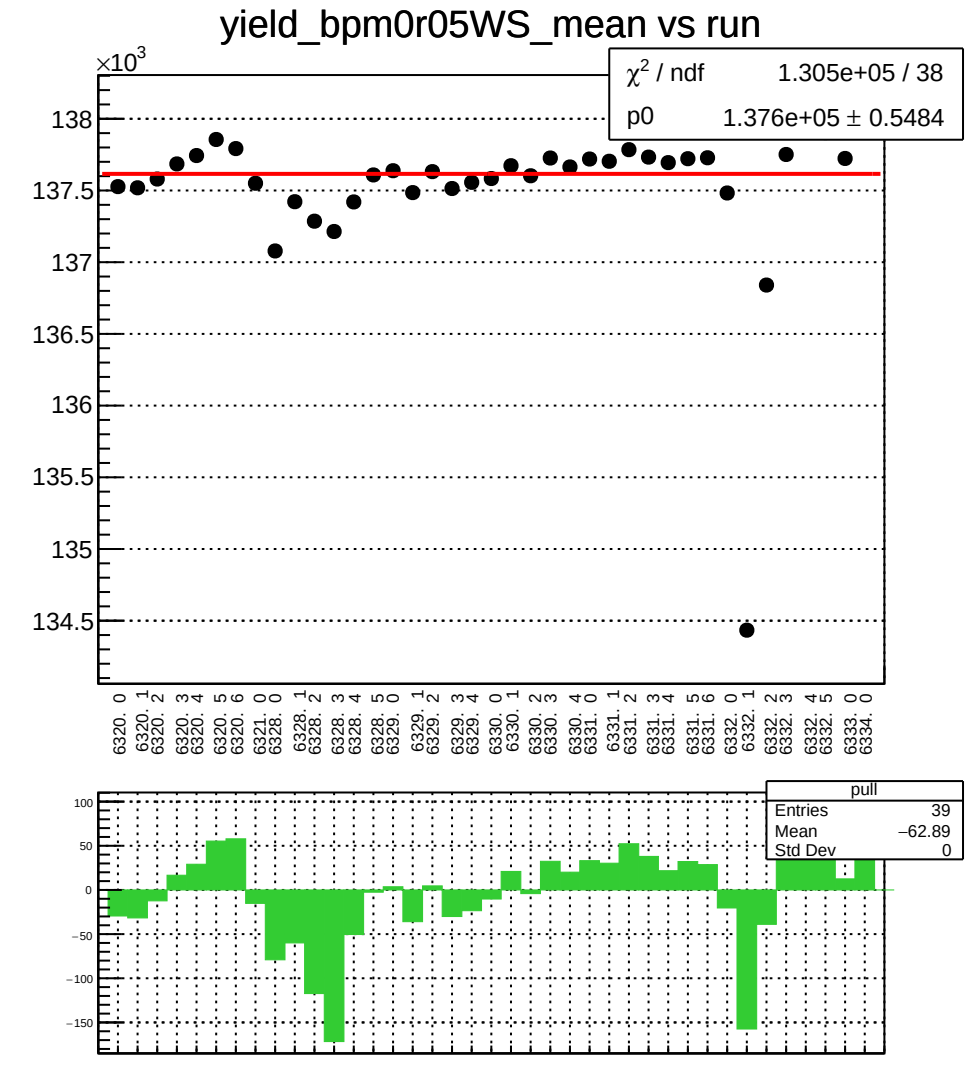

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.106e+04 / 38
p0 1.428e+05 ± 0.3376
143
142.5
142
141.5
141
140.5
140
139.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.81
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 39
Mean 2.768
Std Dev 3.196
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

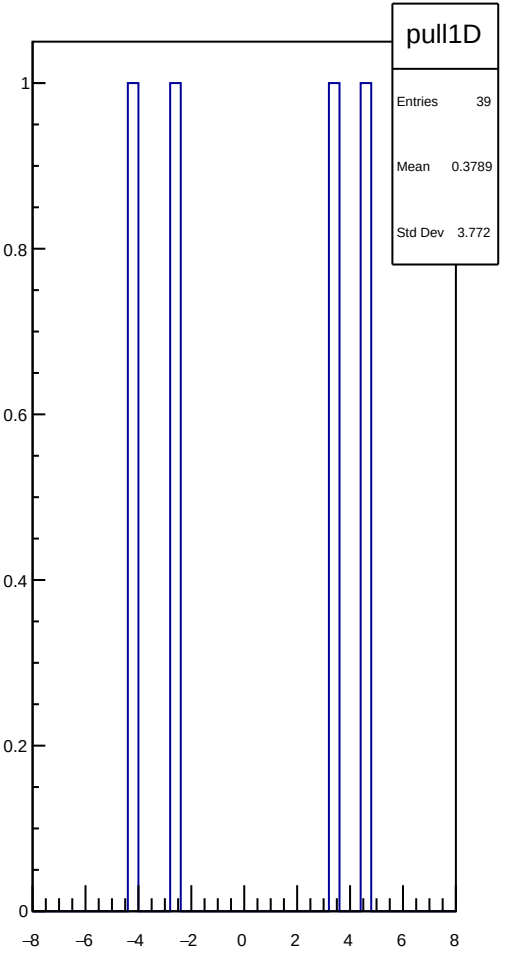

yield_bpm0l10WS_rms vs run
χ² / ndf 5.238e+04 / 38
p0 200.5 ± 0.2387
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

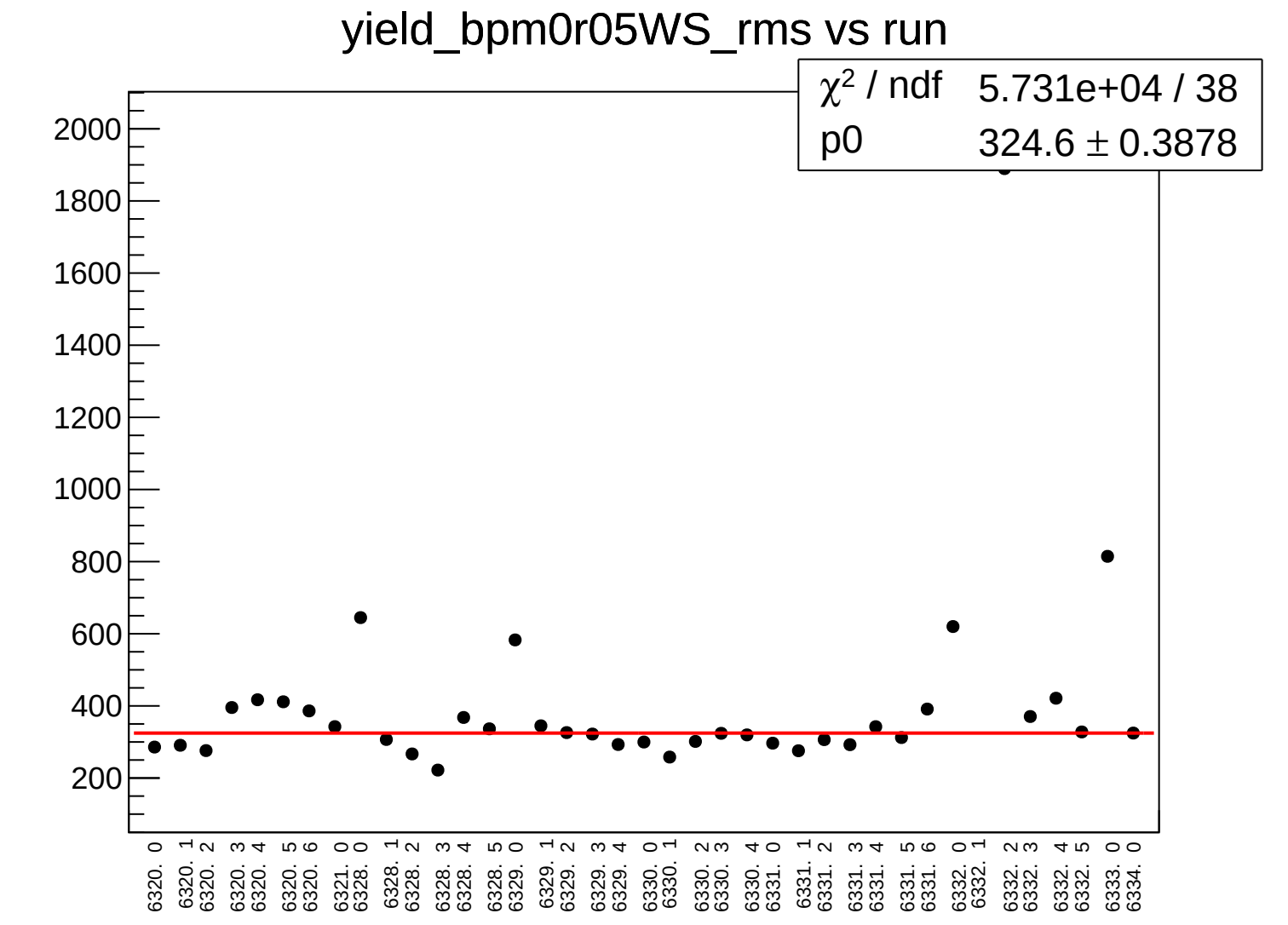

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.225e+05 / 38
p0 1.384e+05 ± 0.6742
139.5
139
138.5
138
137.5
137
136.5
136
135.5
135
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 195.4
Std Dev 0
100
50
0
−50
−100
−150

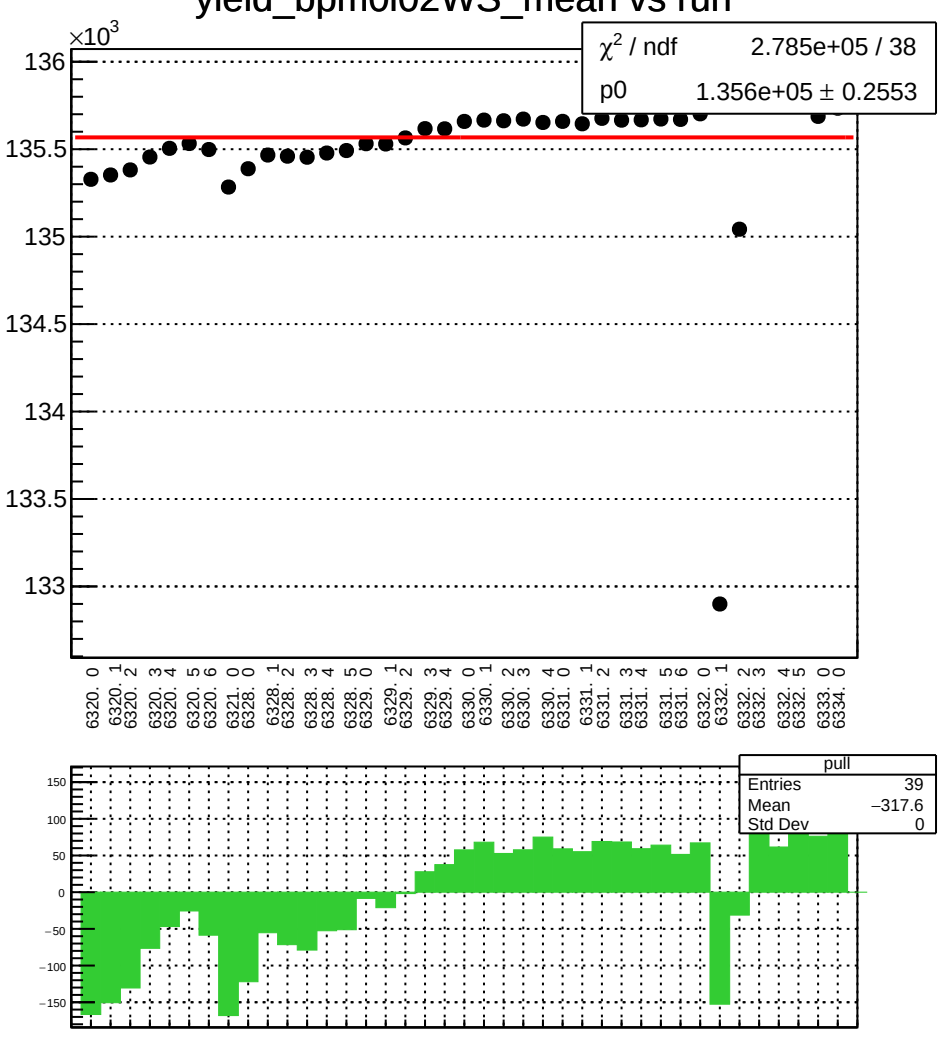

pull1D
Entries 39
Mean −2.745
Std Dev 5.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

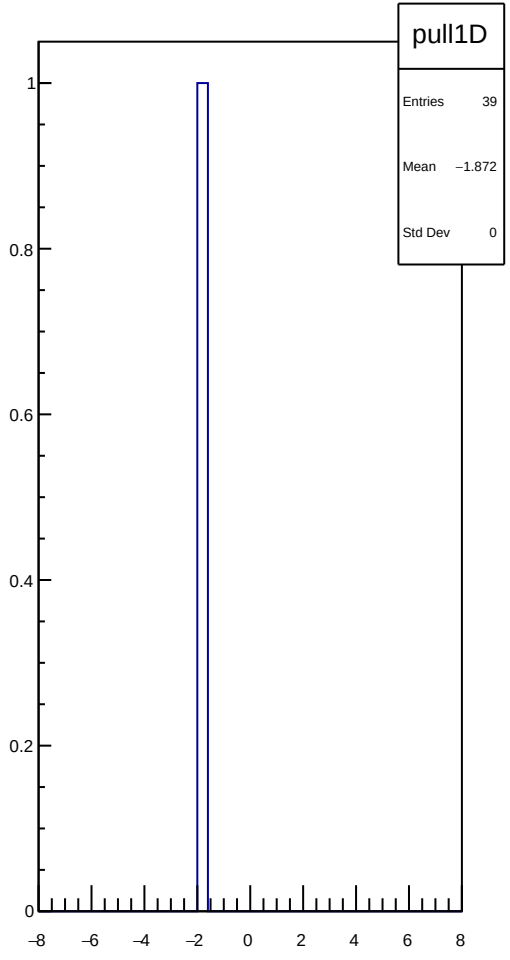

yield_bpm0r03WS_rms vs run
χ² / ndf 5.079e+04 / 38
p0 401 ± 0.4767
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

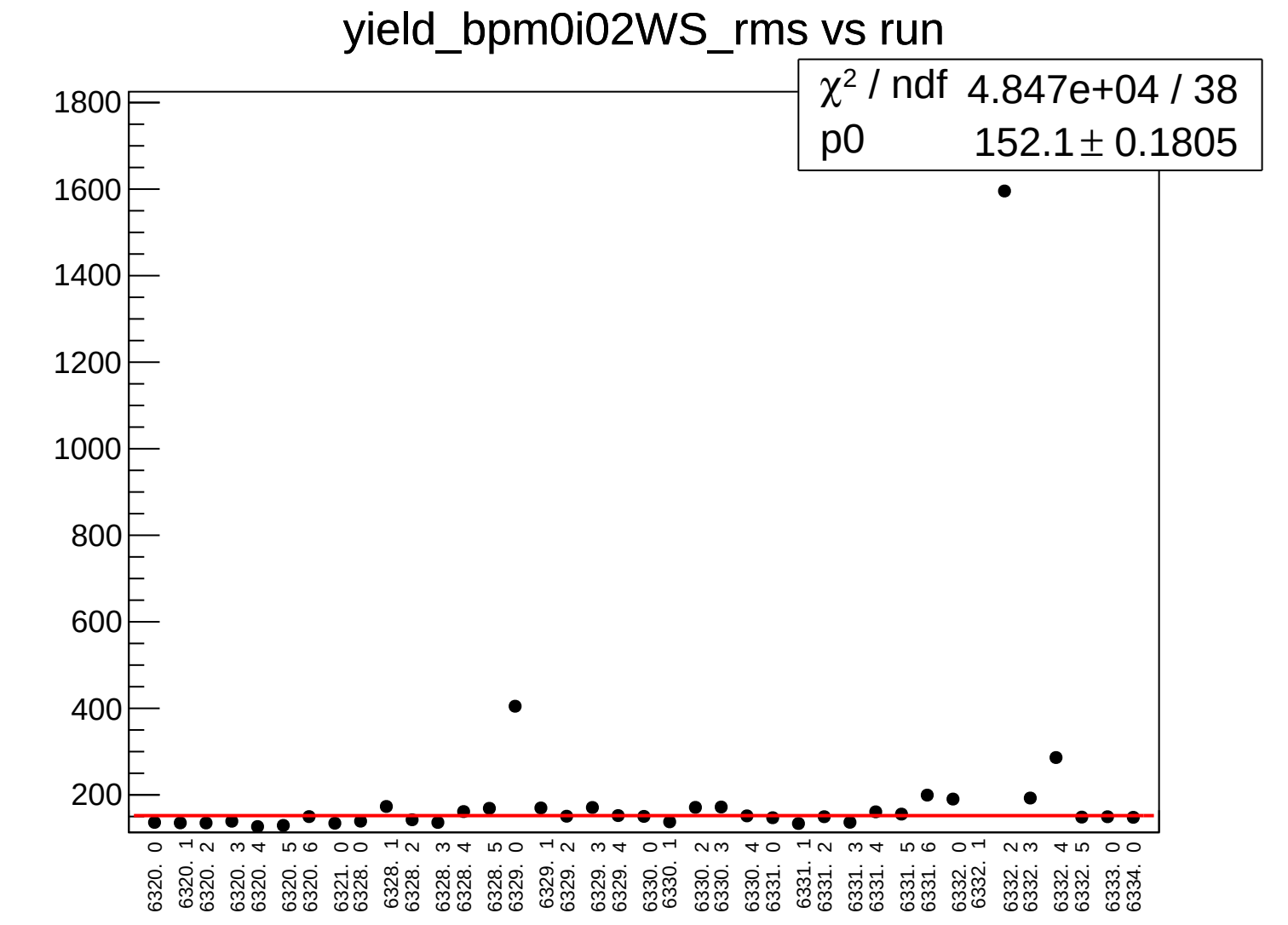

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.305e+05 / 38
p0 1.376e+05 ± 0.5484
138
137.5
137
136.5
136
135.5
135
134.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.89
Std Dev 0
100
50
0
−50
−100
−150

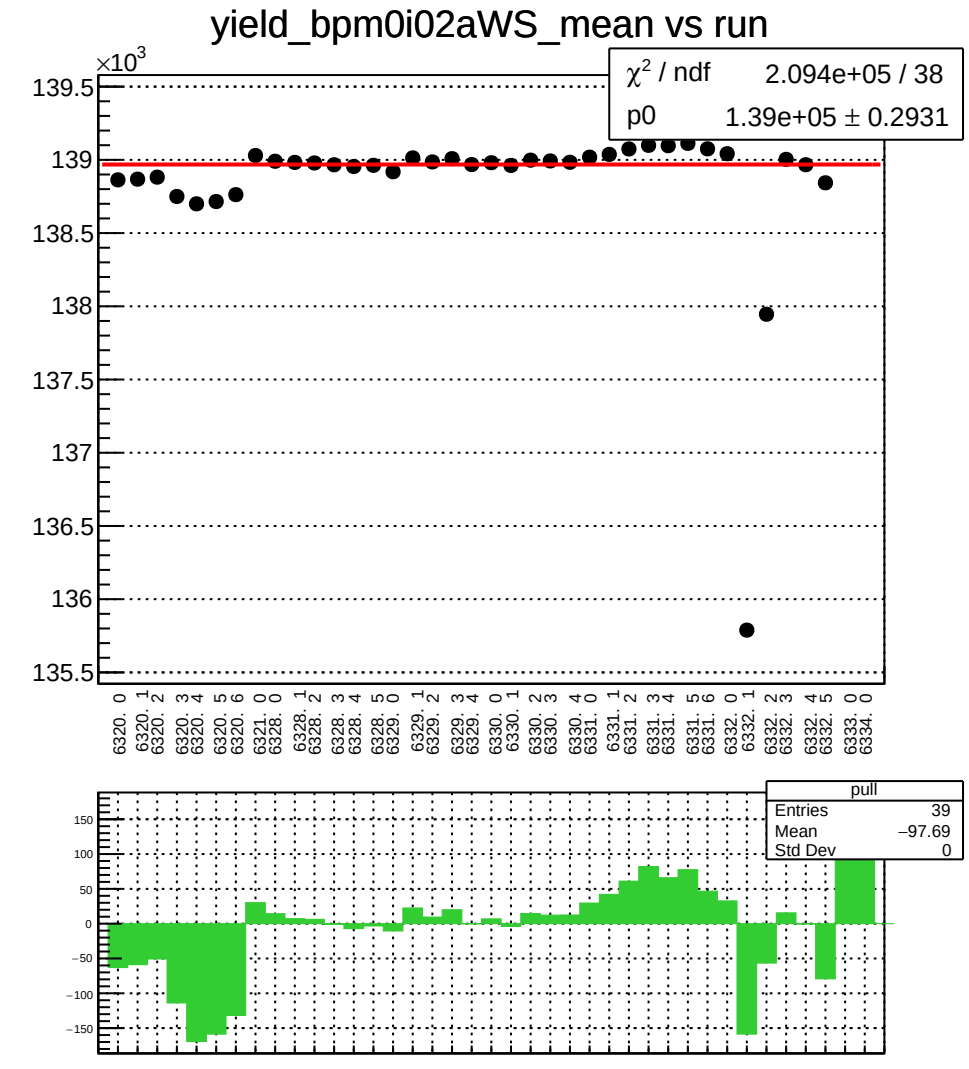

pull1D
Entries 39
Mean 0.3789
Std Dev 3.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

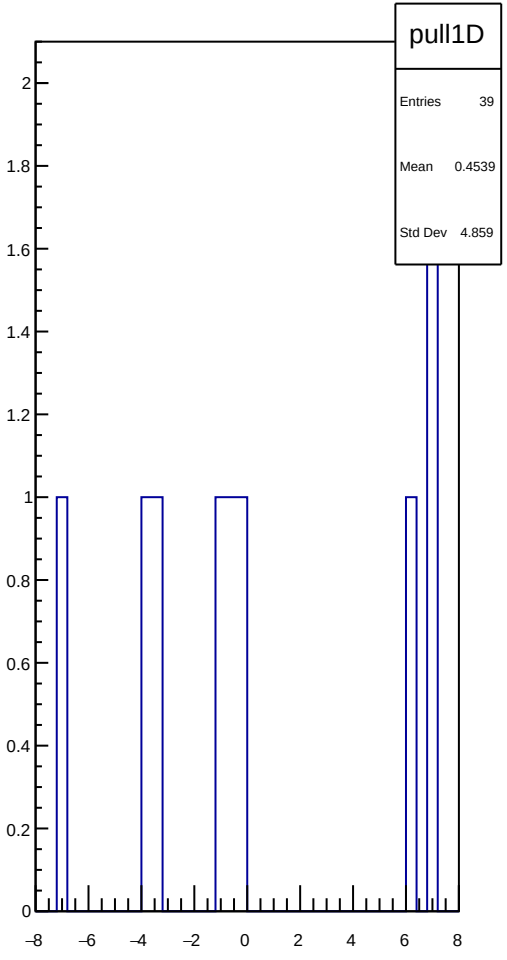

yield_bpm0r05WS_rms vs run
χ² / ndf 5.731e+04 / 38
p0 324.6 ± 0.3878
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

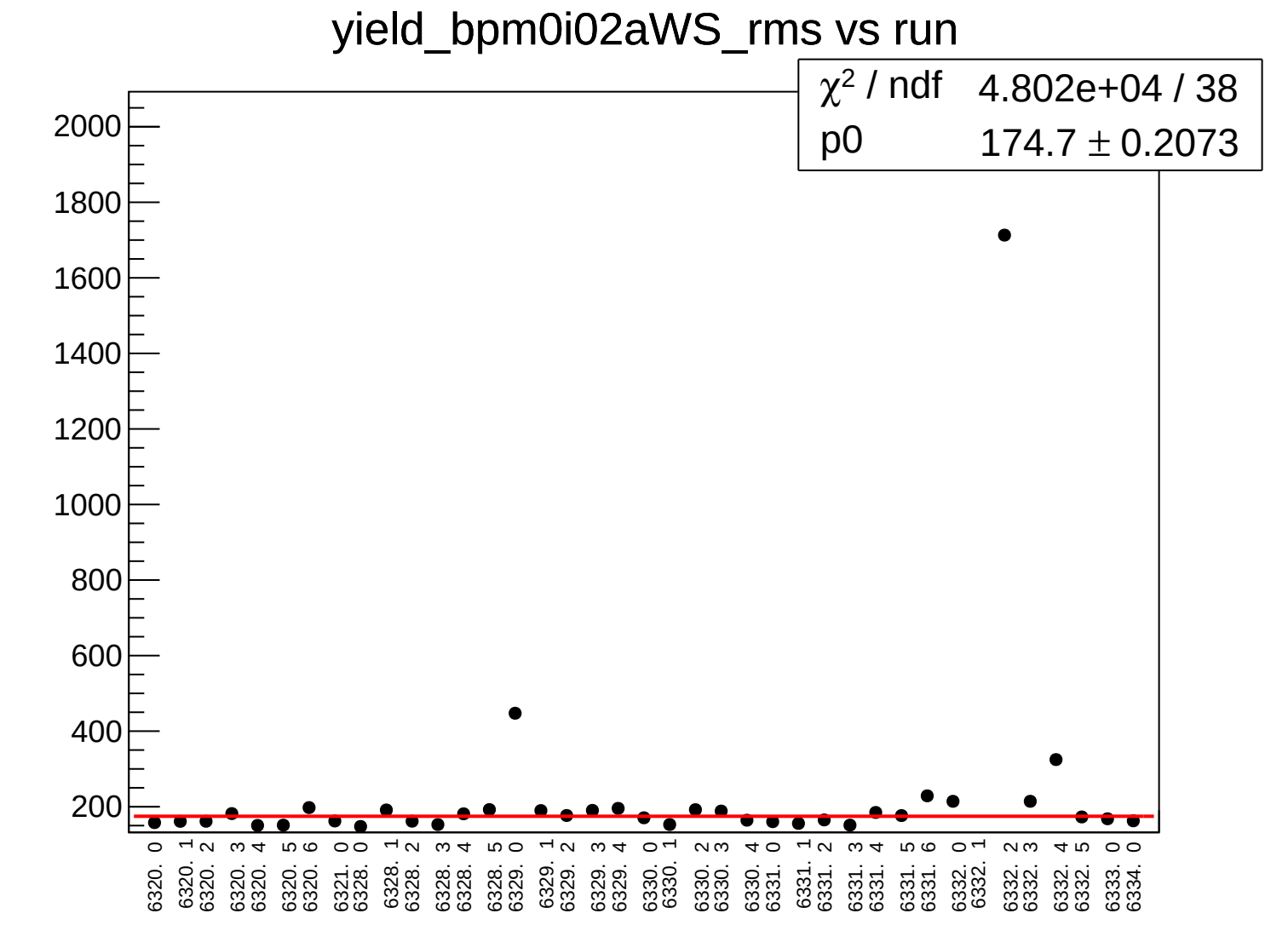

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.785e+05 / 38
p0 1.356e+05 ± 0.2553
136
135.5
135
134.5
134
133.5
133
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −317.6
Std Dev 0
150
100
50
0
−50
−100
−150

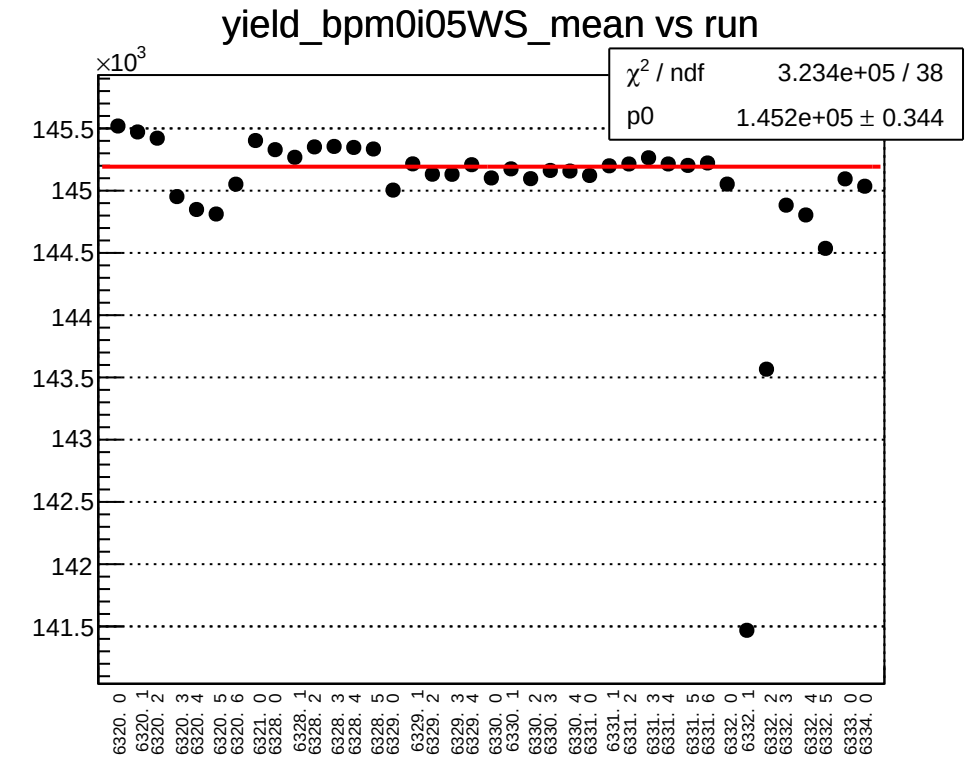

pull1D
Entries 39
Mean −1.872
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

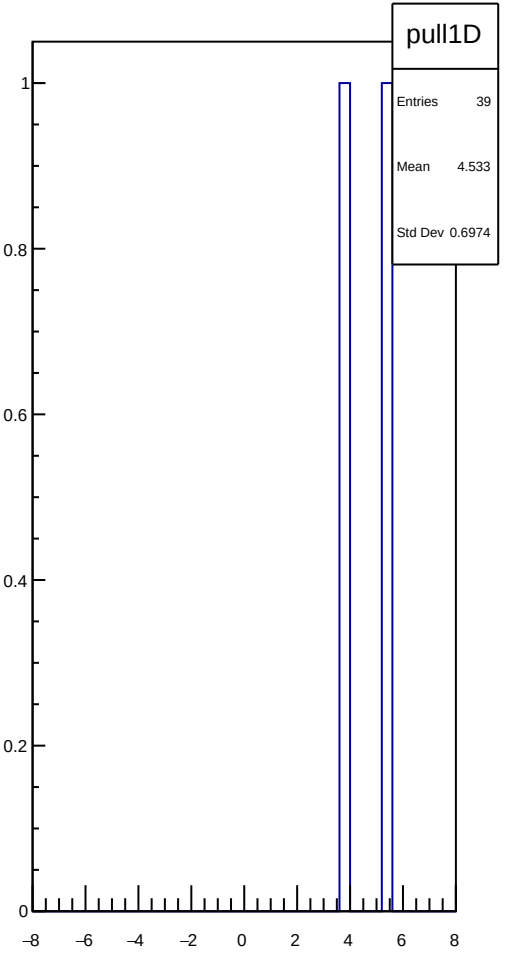

yield_bpm0i02WS_rms vs run
χ² / ndf 4.847e+04 / 38
p0 152.1 ± 0.1805
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

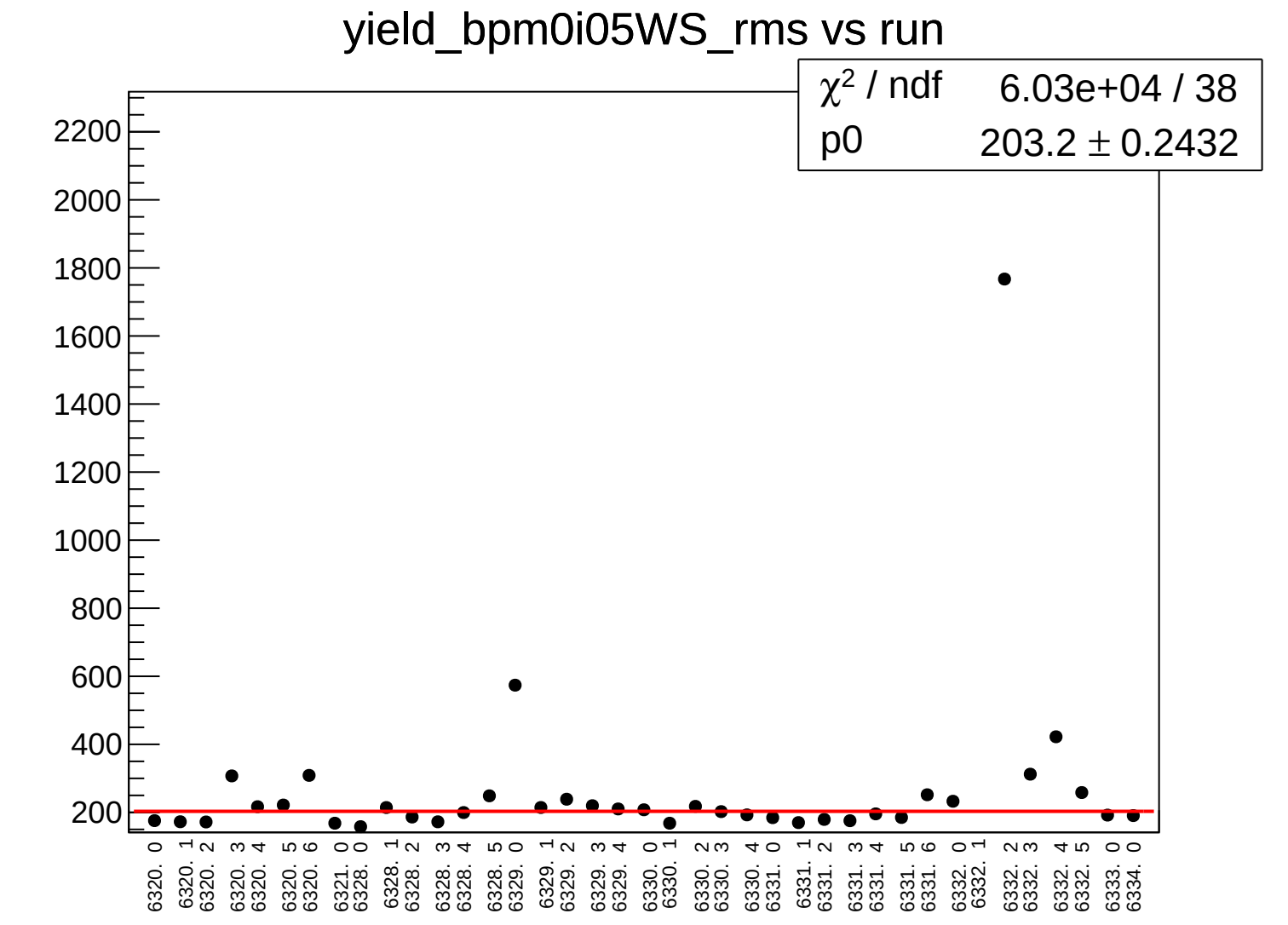

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.094e+05 / 38
p0 1.39e+05 ± 0.2931
139.5
139
138.5
138
137.5
137
136.5
136
135.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −97.69
Std Dev 0
150
100
50
0
−50
−100
−150

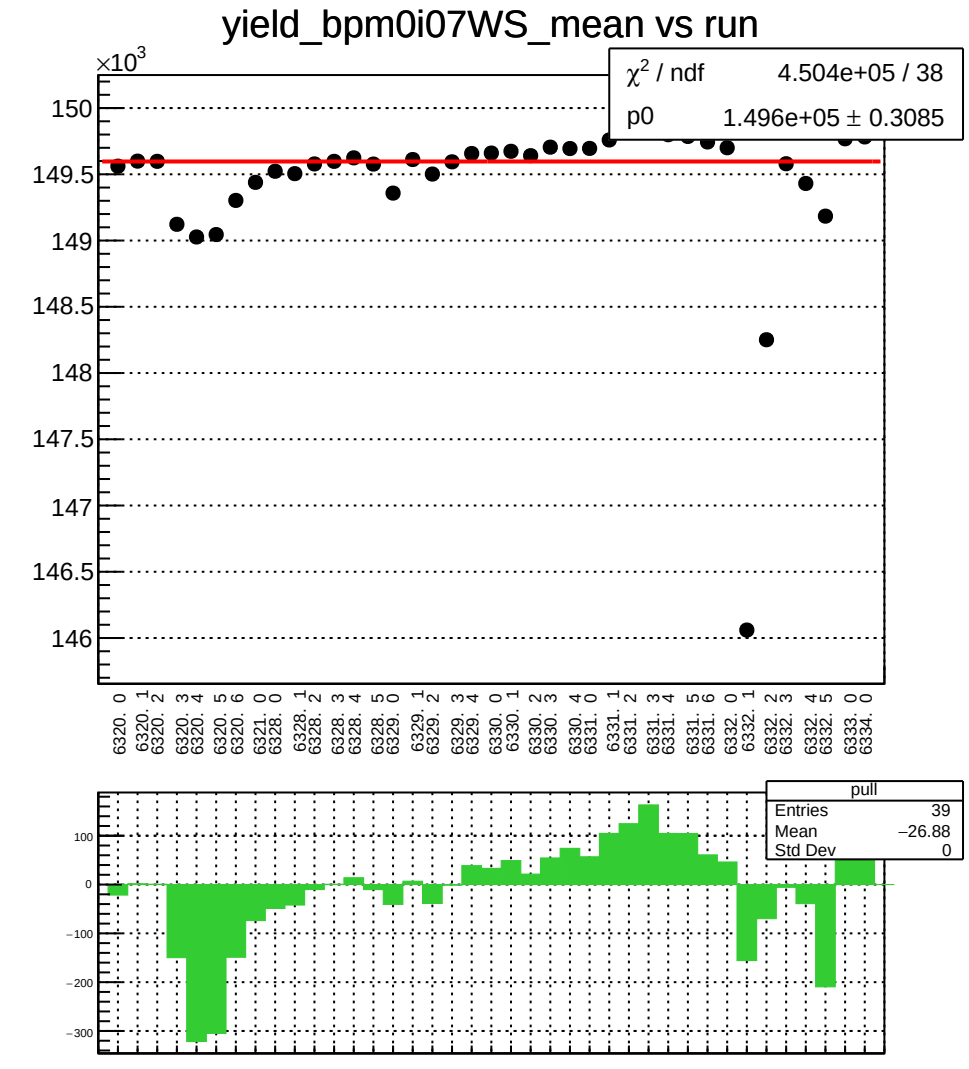

pull1D
Entries 39
Mean 0.4539
Std Dev 4.859
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

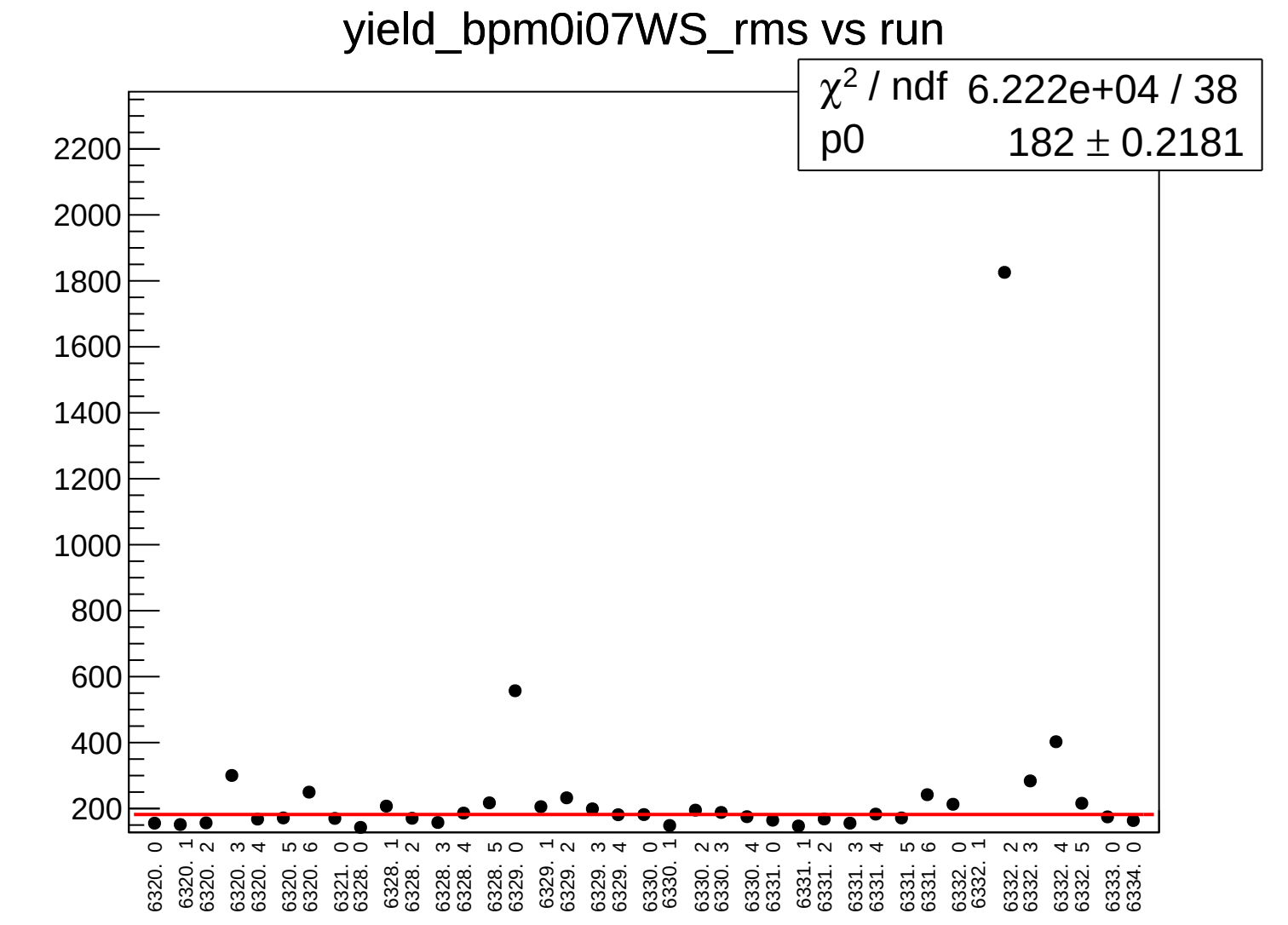

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.802e+04 / 38
p0 174.7 ± 0.2073
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

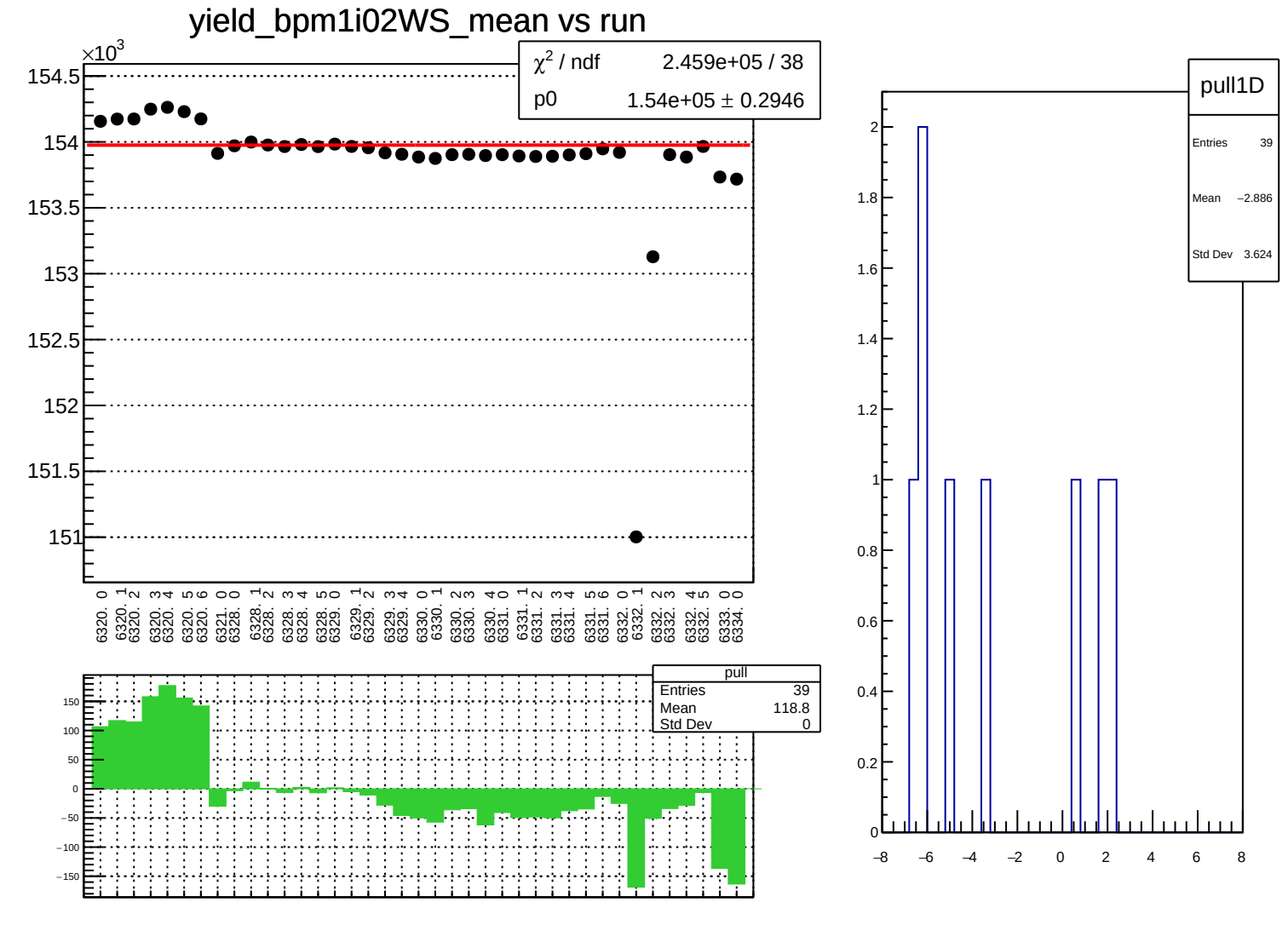

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.234e+05 / 38
p0 1.452e+05 ± 0.344
145.5
145
144.5
144
143.5
143
142.5
142
141.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.3
Std Dev 0
200
100
0
−100
−200
−300

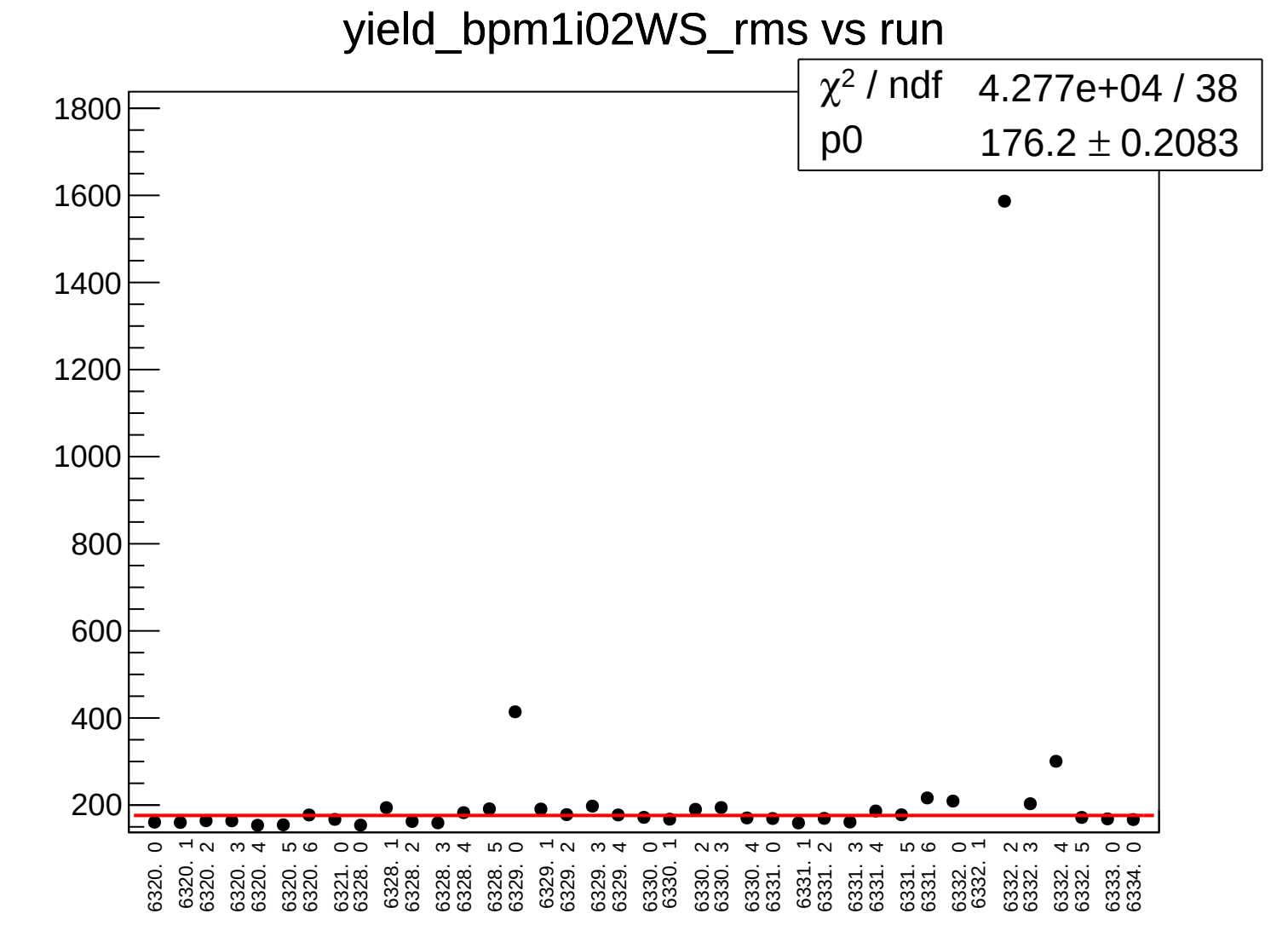

pull1D
Entries 39
Mean 4.533
Std Dev 0.6974
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

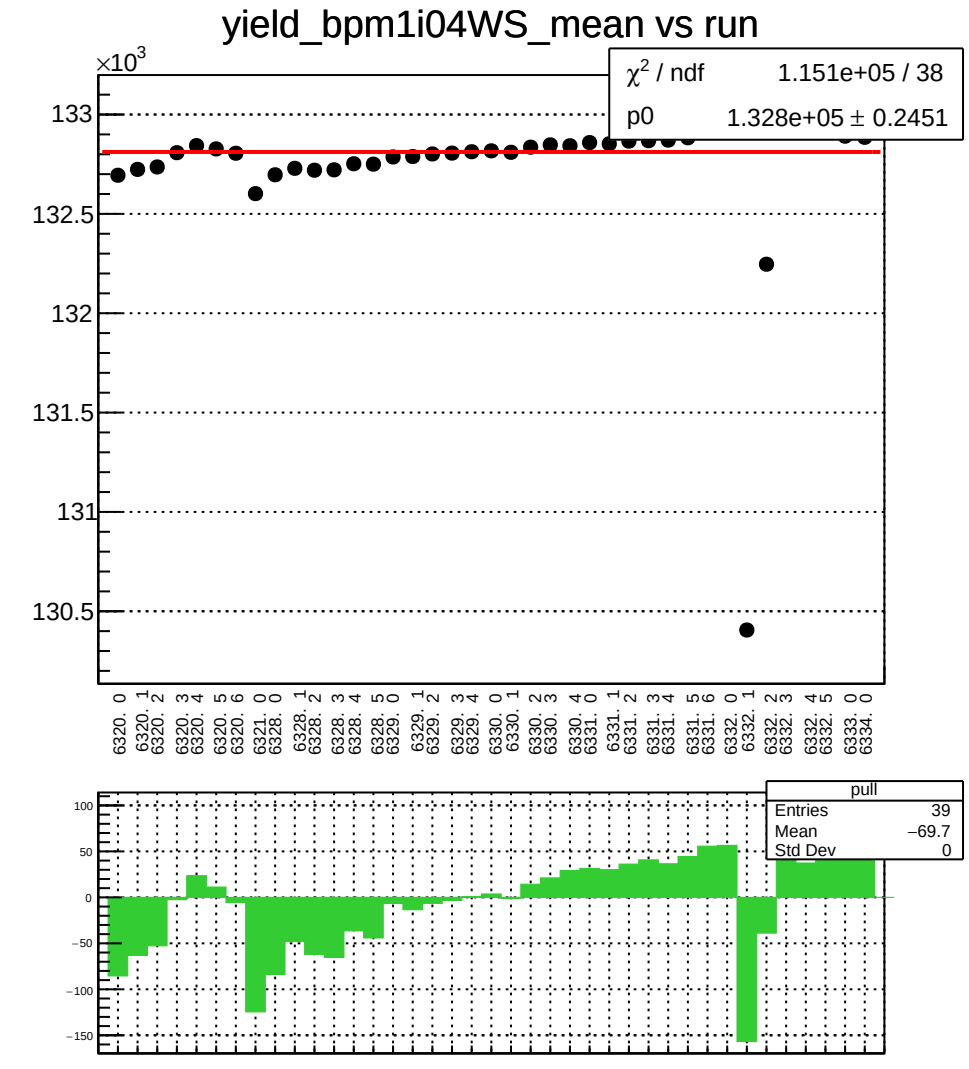

yield_bpm0i05WS_rms vs run
χ² / ndf 6.03e+04 / 38
p0 203.2 ± 0.2432
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

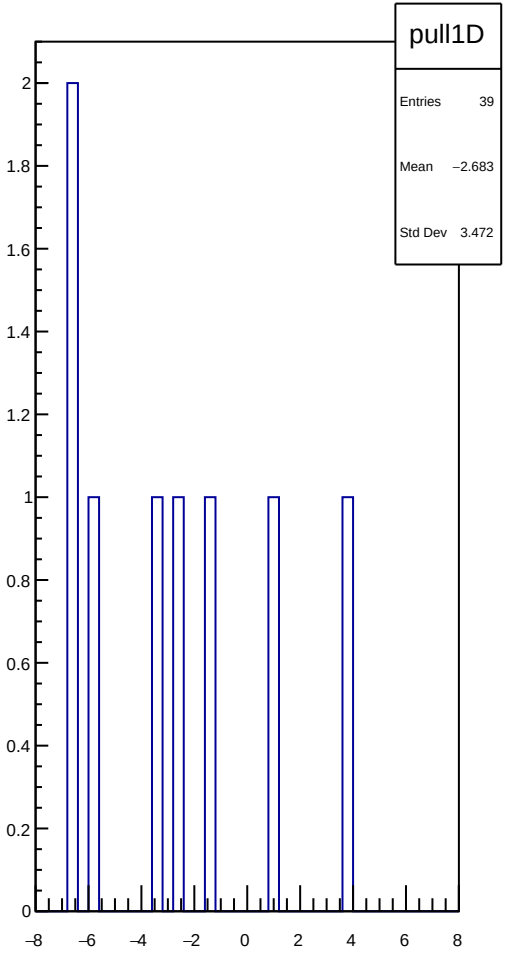

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.504e+05 / 38
p0 1.496e+05 ± 0.3085
150
149.5
149
148.5
148
147.5
147
146.5
146
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.88
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 39
Mean 0.4732
Std Dev 3.706
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

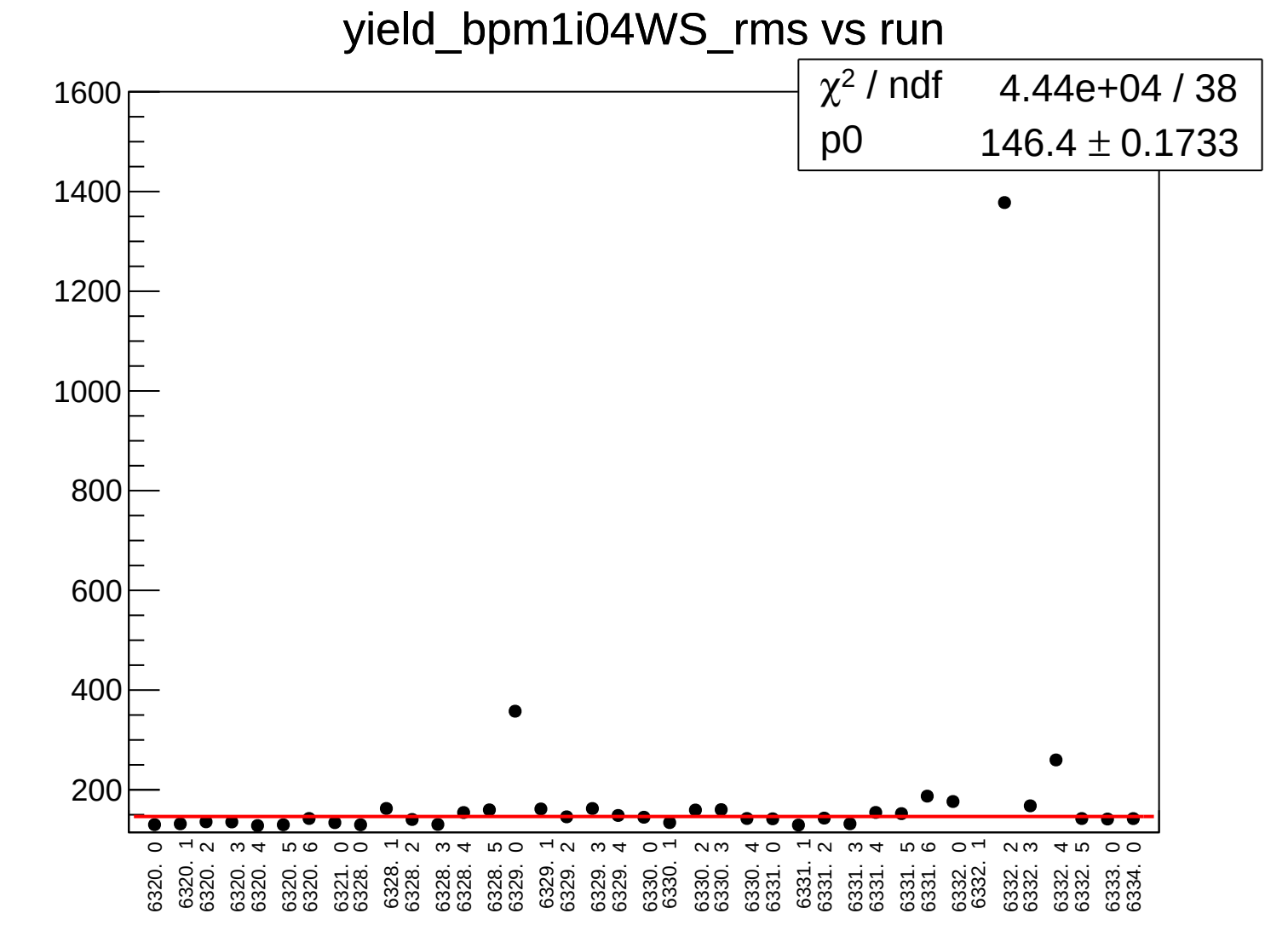

yield_bpm0i07WS_rms vs run
χ² / ndf 6.222e+04 / 38
p0 182 ± 0.2181
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

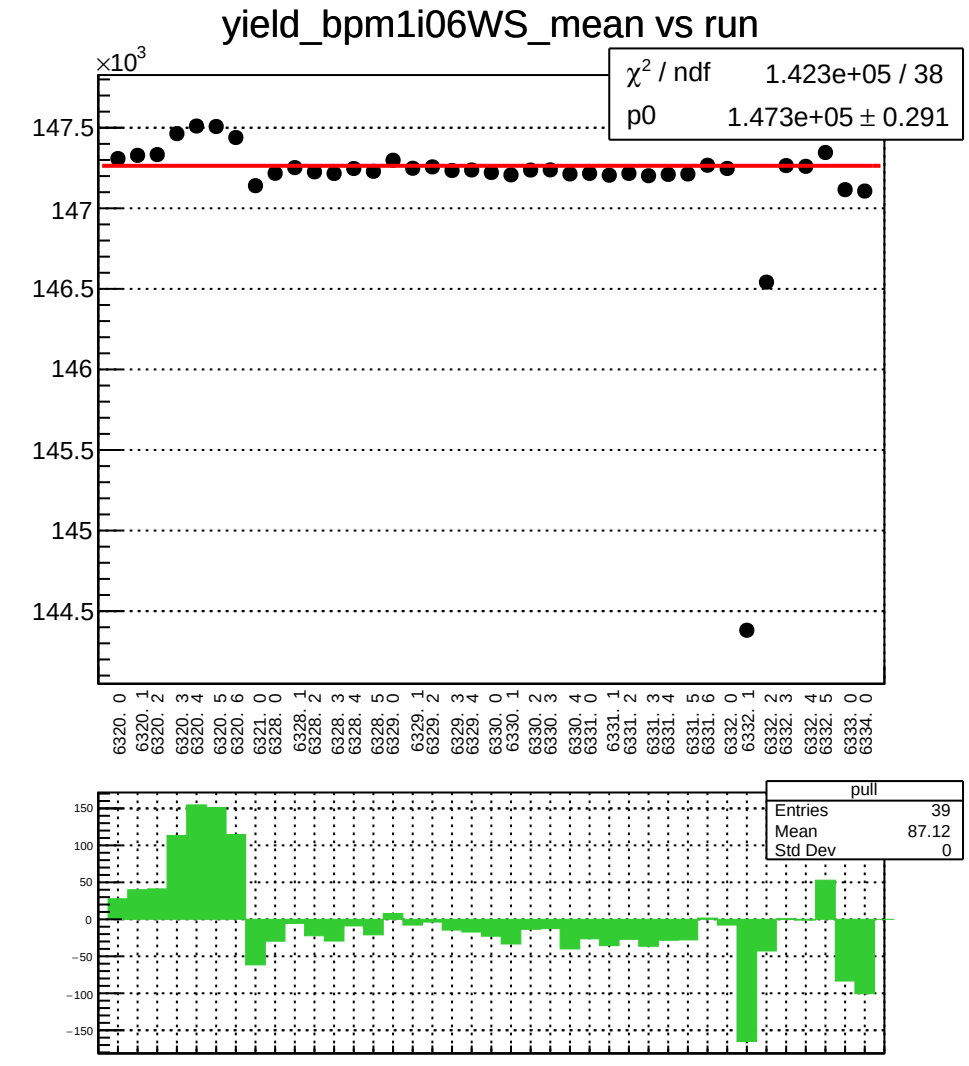

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 2.459e+05 / 38
p0 1.54e+05 ± 0.2946
154.5
154
153.5
153
152.5
152
151.5
151
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 118.8
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 39
Mean −2.886
Std Dev 3.624
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

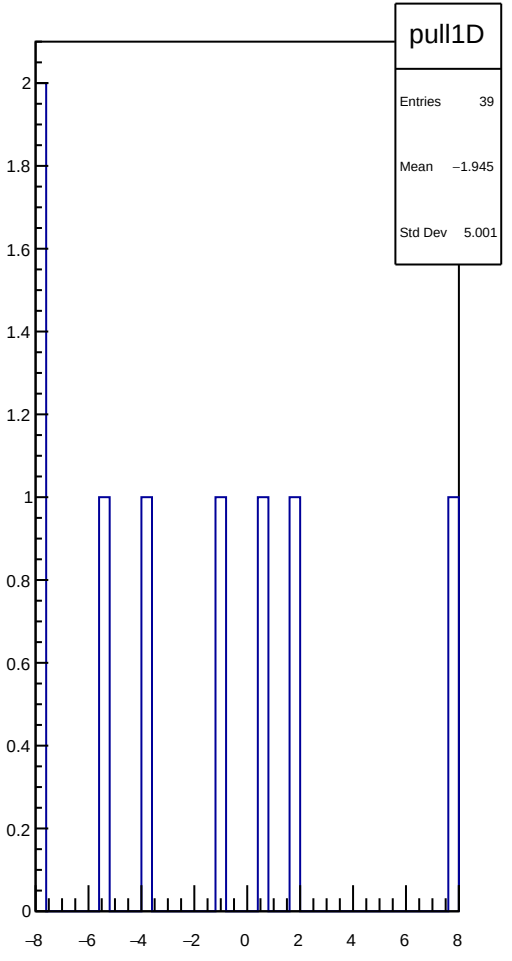

yield_bpm1i02WS_rms vs run
χ² / ndf 4.277e+04 / 38
p0 176.2 ± 0.2083
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

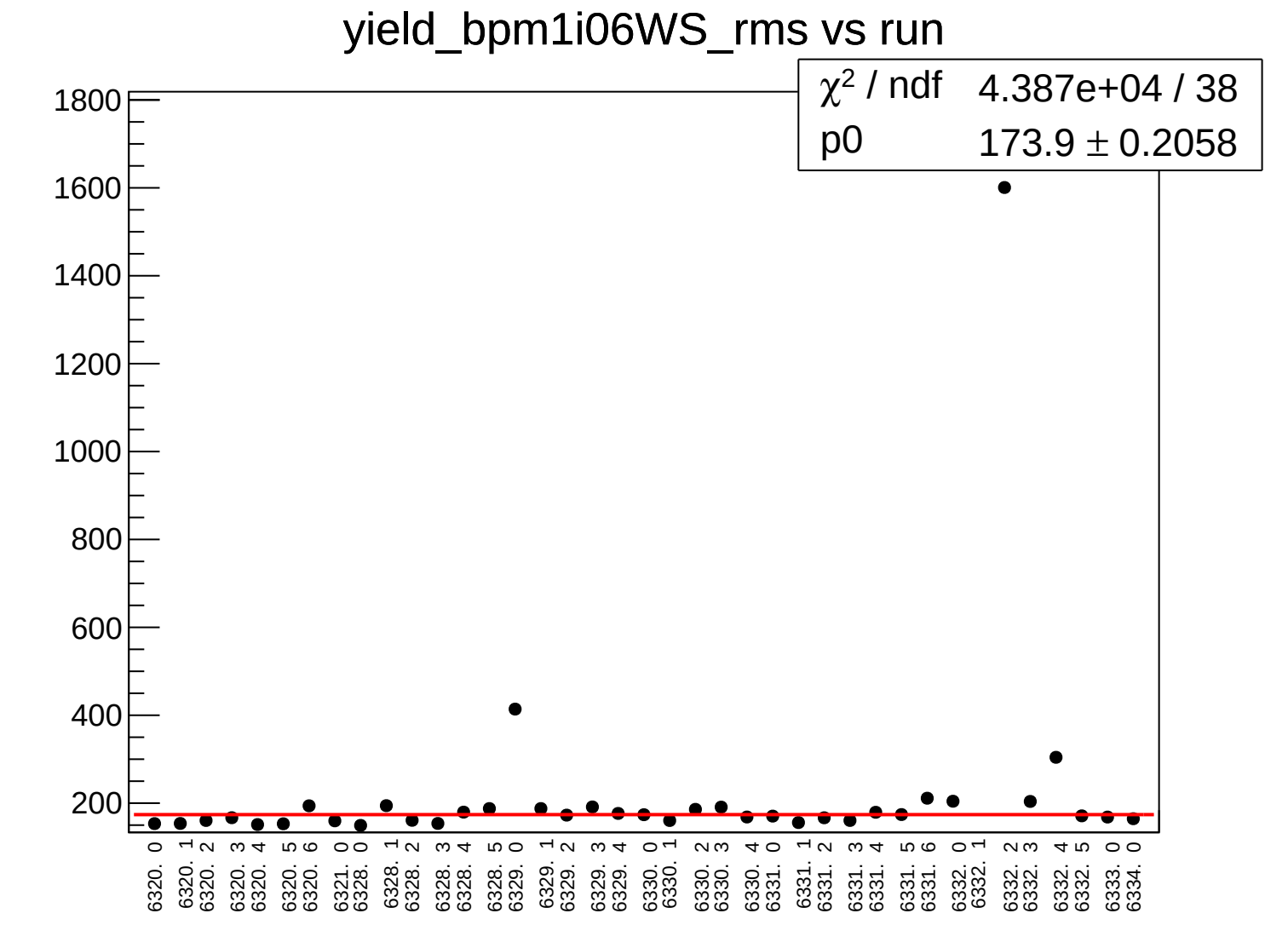

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.151e+05 / 38
p0 1.328e+05 ± 0.2451
133
132.5
132
131.5
131
130.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −69.7
Std Dev 0
100
50
0
−50
−100
−150

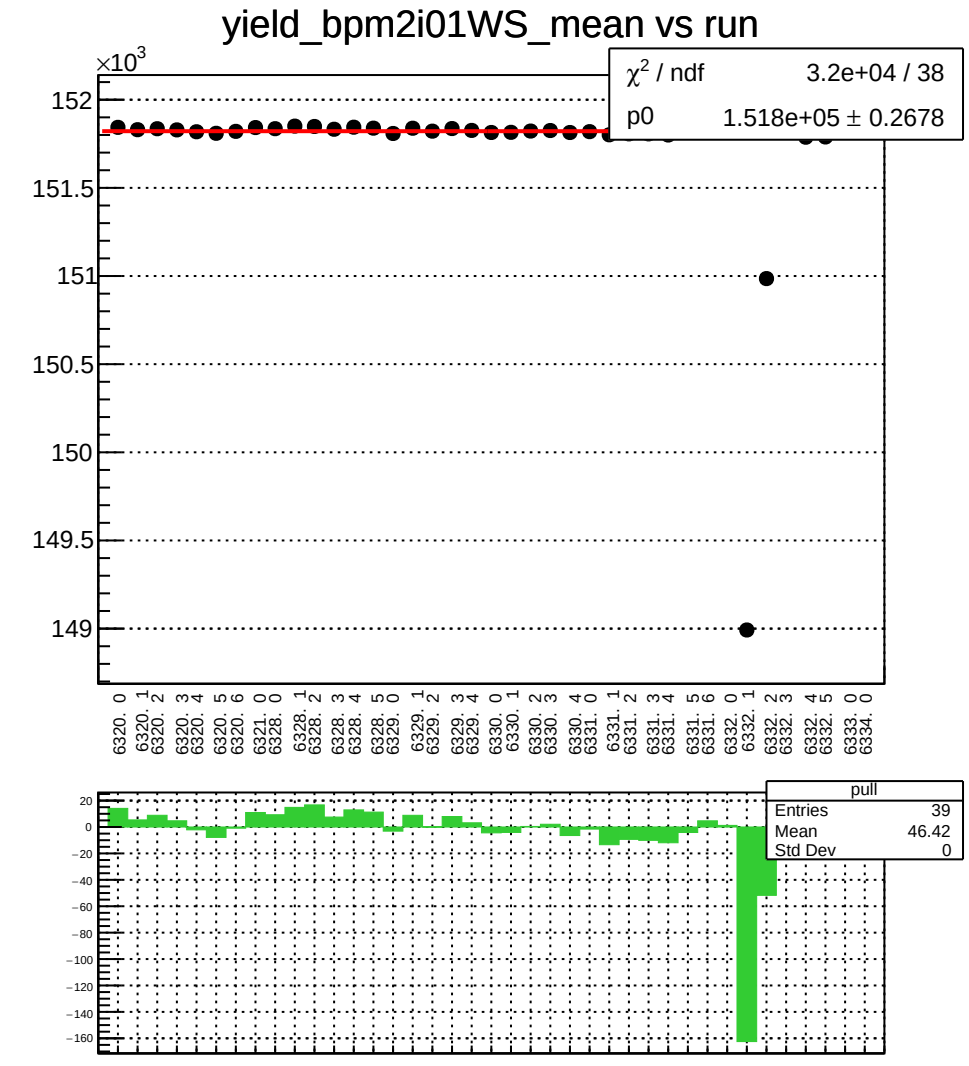

pull1D
Entries 39
Mean −2.683
Std Dev 3.472
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

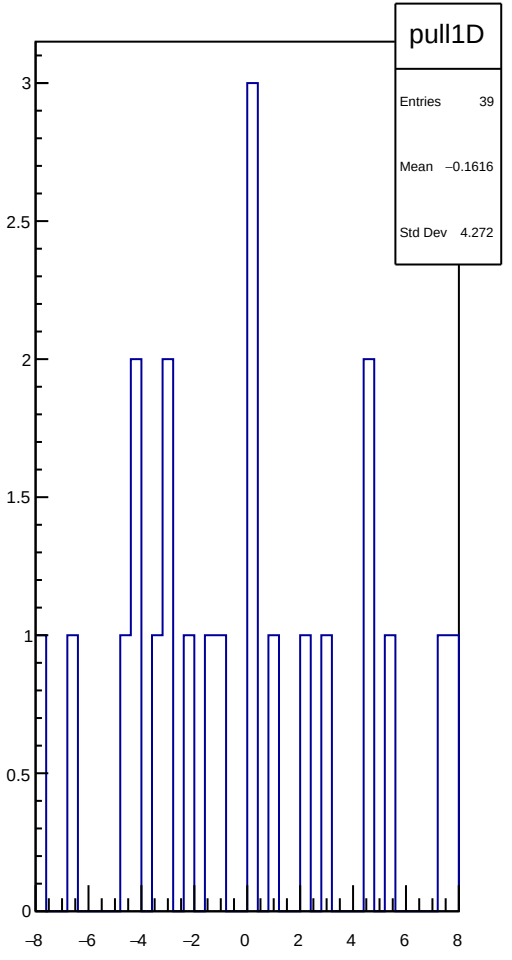

yield_bpm1i04WS_rms vs run
χ² / ndf 4.44e+04 / 38
p0 146.4 ± 0.1733
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

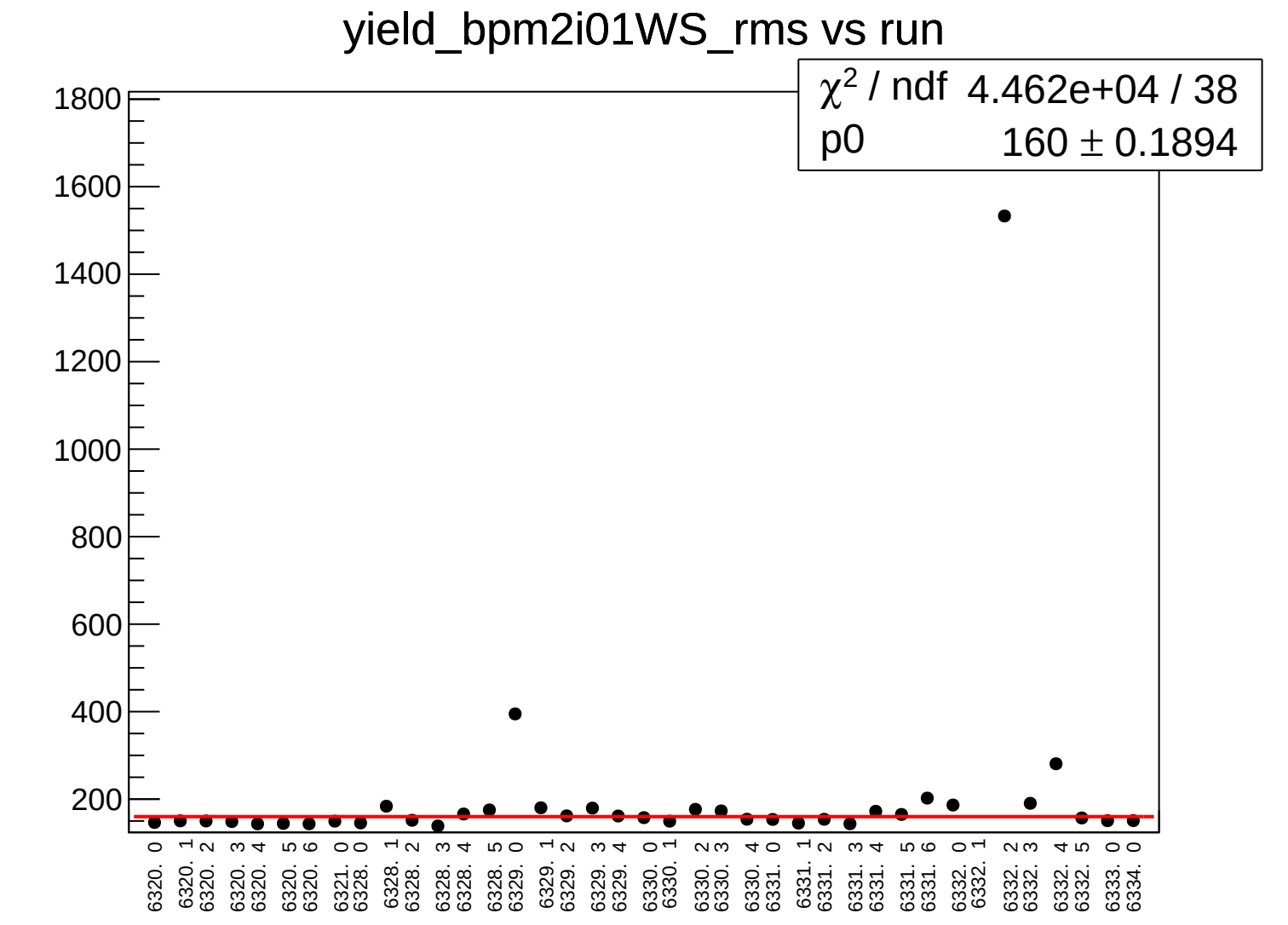

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.423e+05 / 38
p0 1.473e+05 ± 0.291
147.5
147
146.5
146
145.5
145
144.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.12
Std Dev 0
150
100
50
0
−50
−100
−150

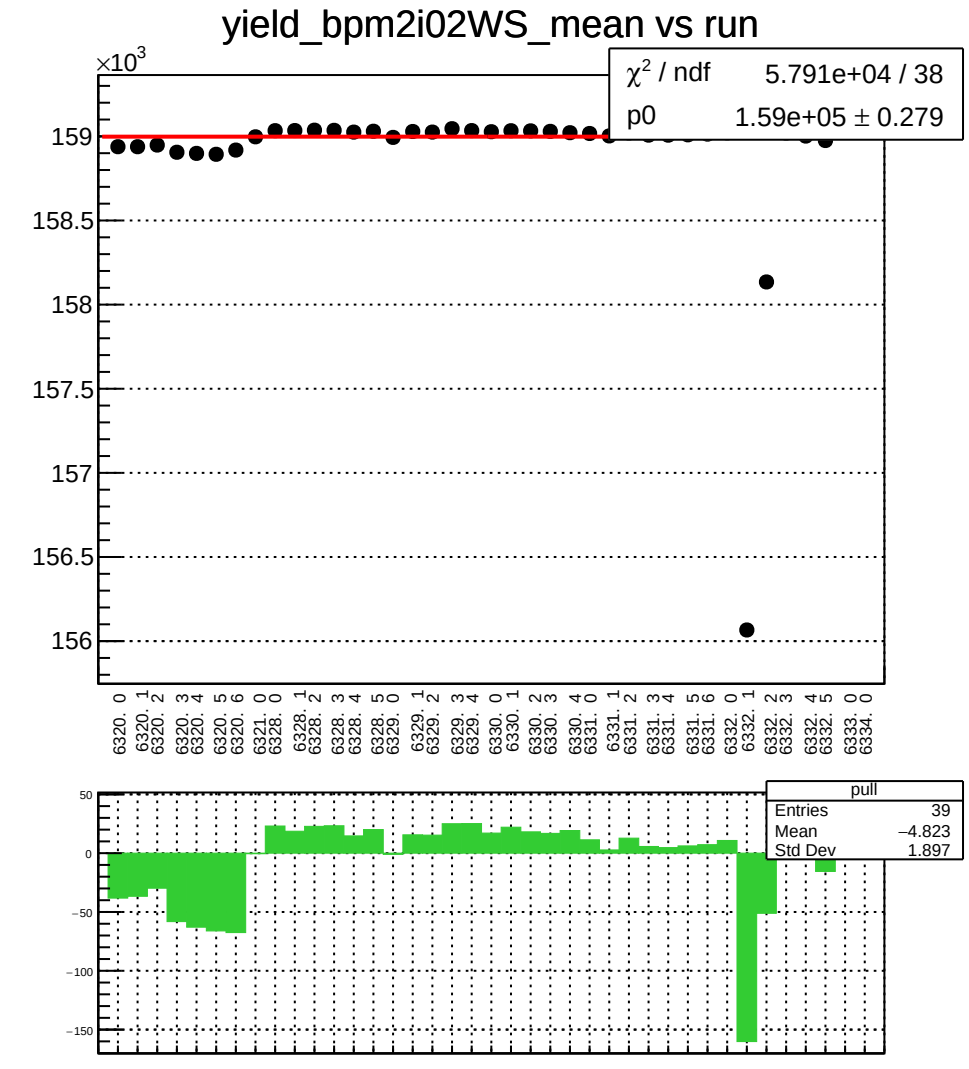

pull1D
Entries 39
Mean −1.945
Std Dev 5.001
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

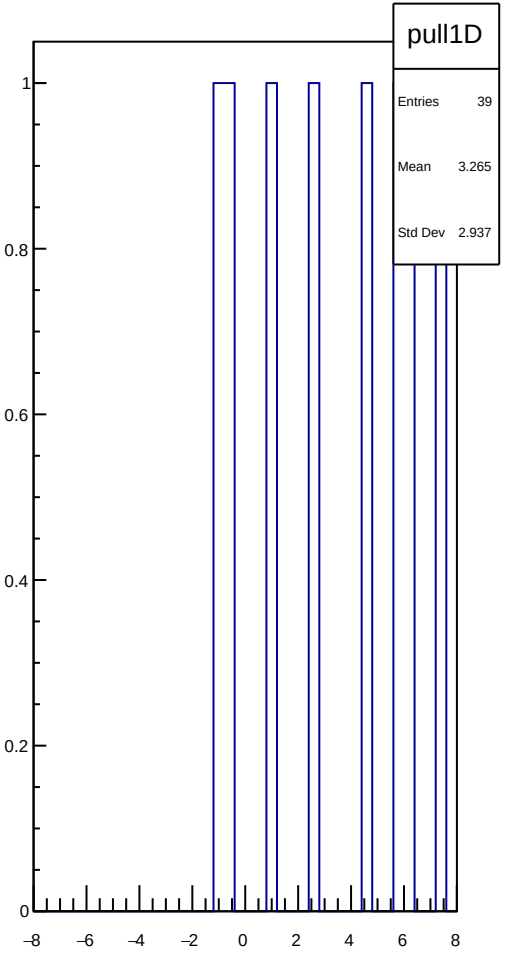

yield_bpm1i06WS_rms vs run
χ² / ndf 4.387e+04 / 38
p0 173.9 ± 0.2058
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

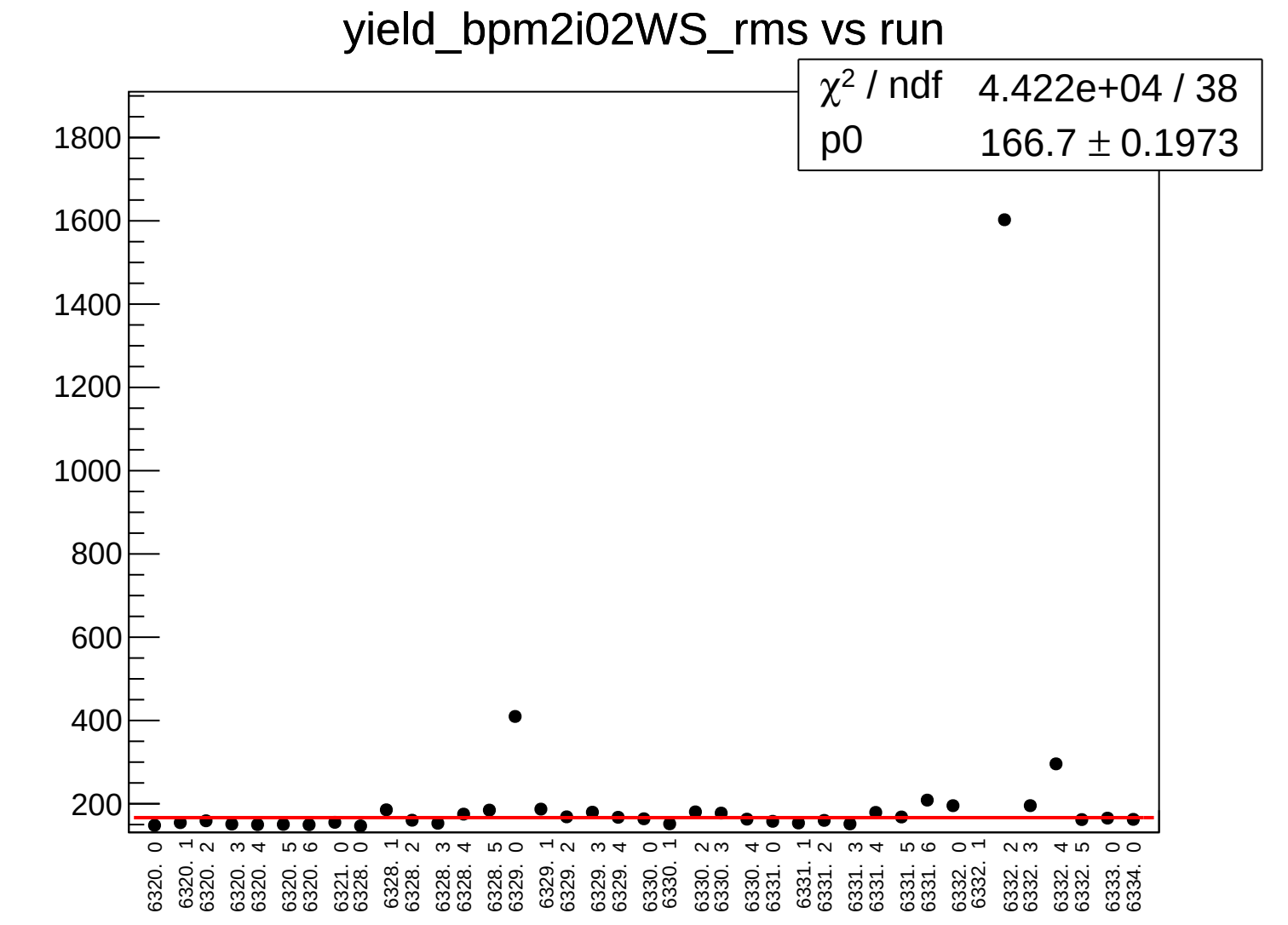

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 3.2e+04 / 38
p0 1.518e+05 ± 0.2678
152
151.5
151
150.5
150
149.5
149
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 46.42
Std Dev 0
20
0
−20
−40
−60
−80
−100
−120
−140
−160

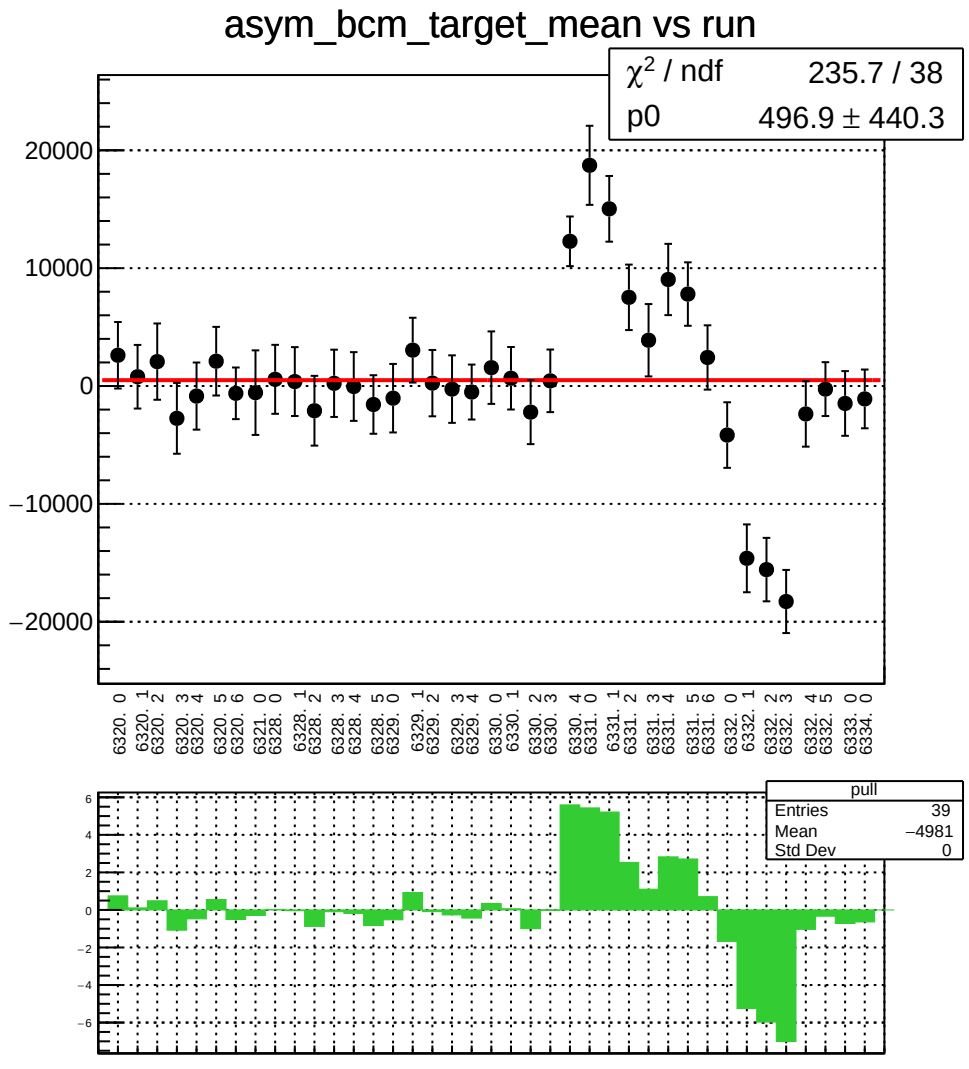

pull1D
Entries 39
Mean −0.1616
Std Dev 4.272
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

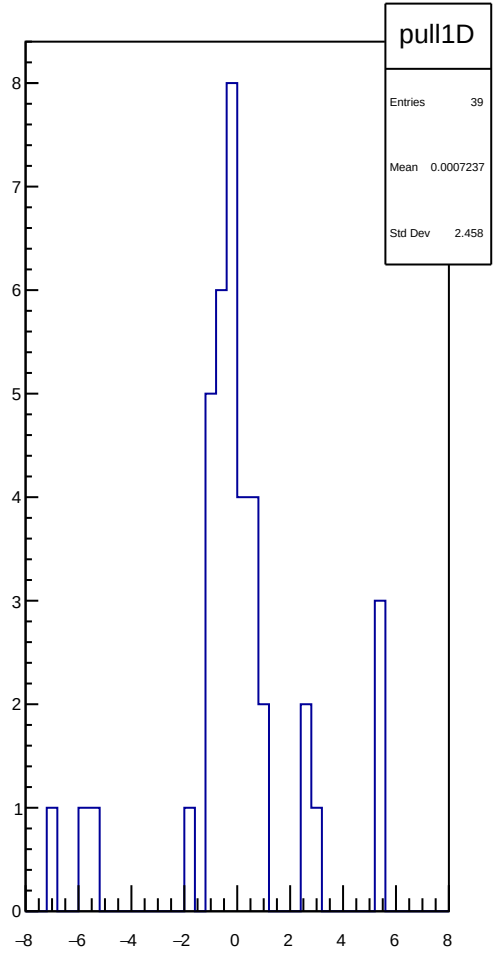

yield_bpm2i01WS_rms vs run
χ² / ndf 4.462e+04 / 38
p0 160 ± 0.1894
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

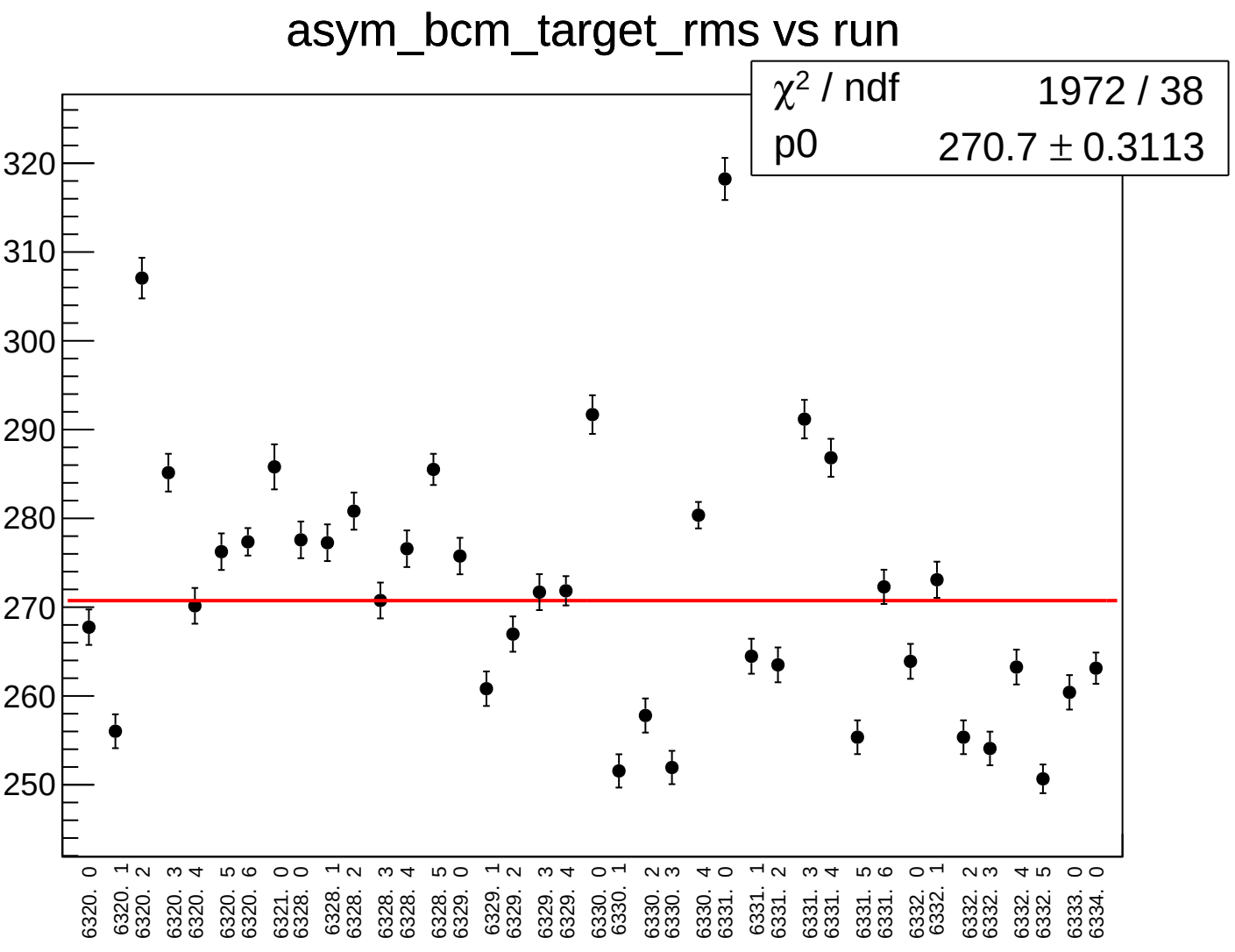

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5.791e+04 / 38
p0 1.59e+05 ± 0.279
159
158.5
158
157.5
157
156.5
156
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6328. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.823
Std Dev 1.897
50
0
−50
−100
−150

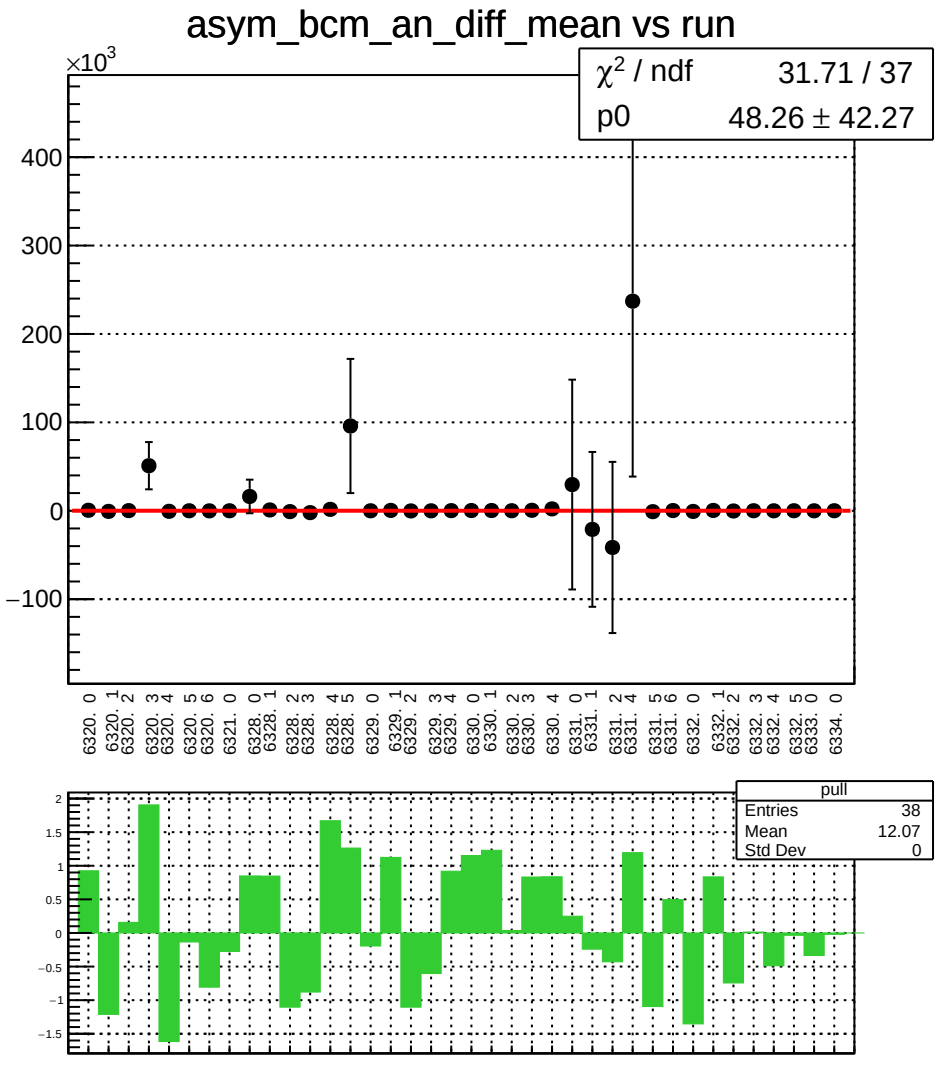

pull1D
Entries 39
Mean 3.265
Std Dev 2.937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

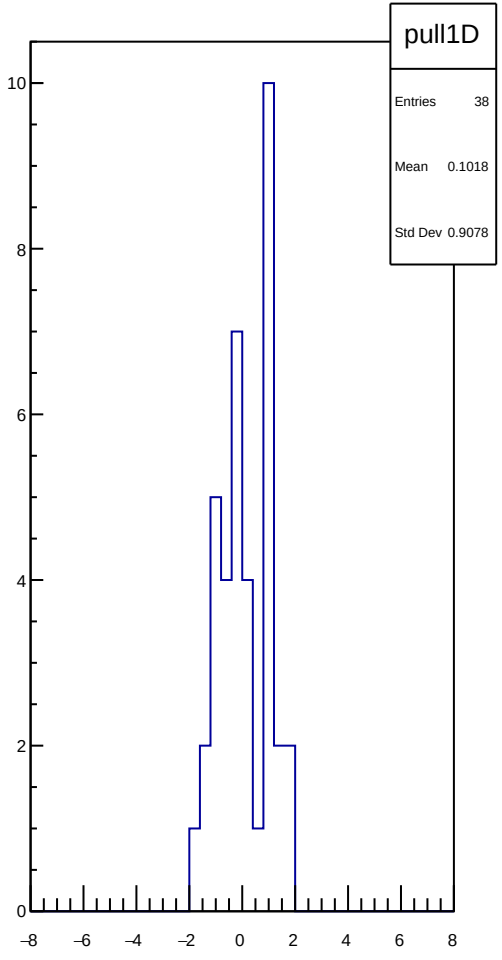

yield_bpm2i02WS_rms vs run
χ² / ndf 4.422e+04 / 38
p0 166.7 ± 0.1973
1800
1600
1400
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

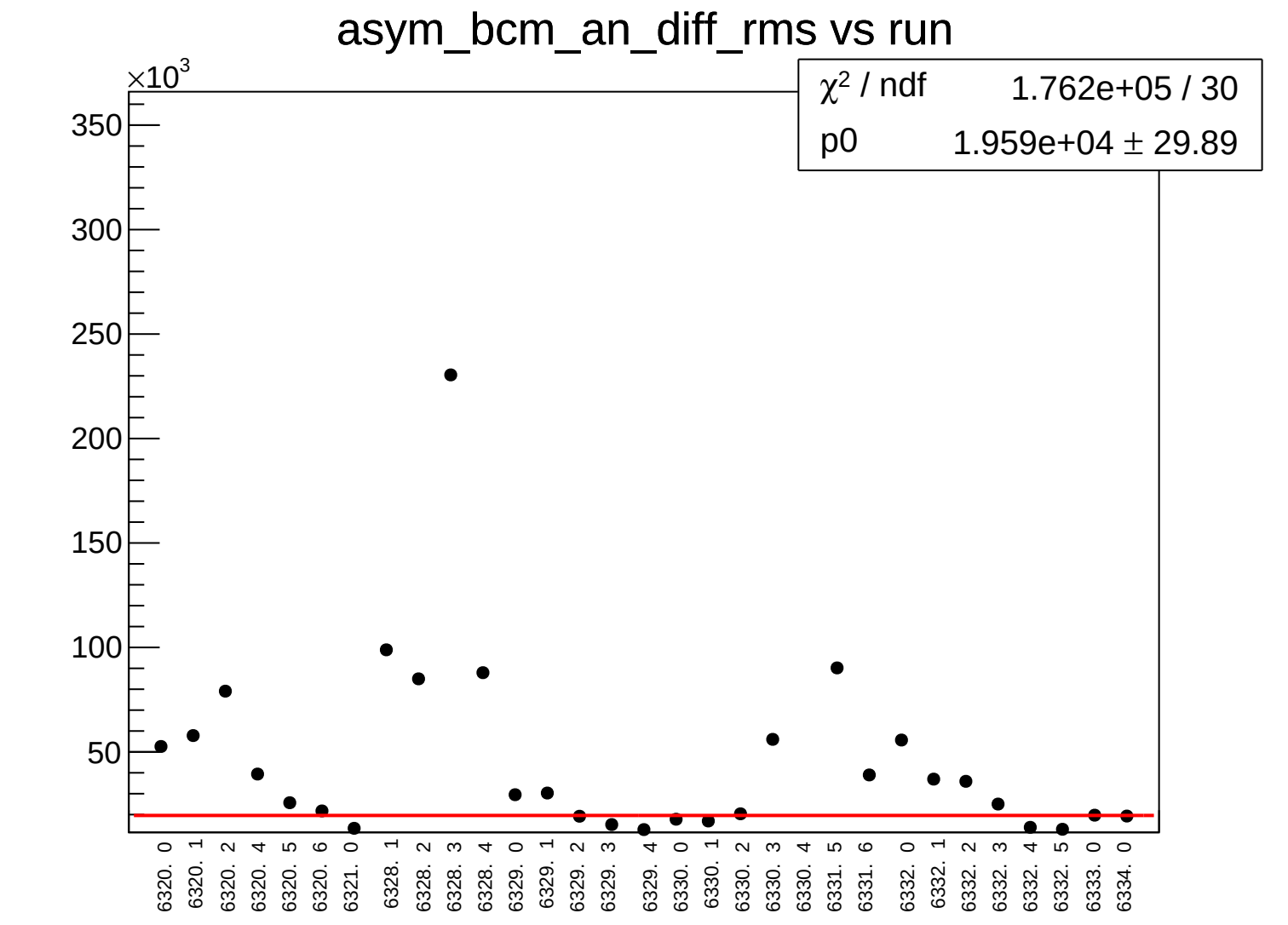

asym_bcm_target_mean vs run
χ² / ndf 235.7 / 38
p0 496.9 ± 440.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4981
Std Dev 0
6
4
2
0
−2
−4
−6

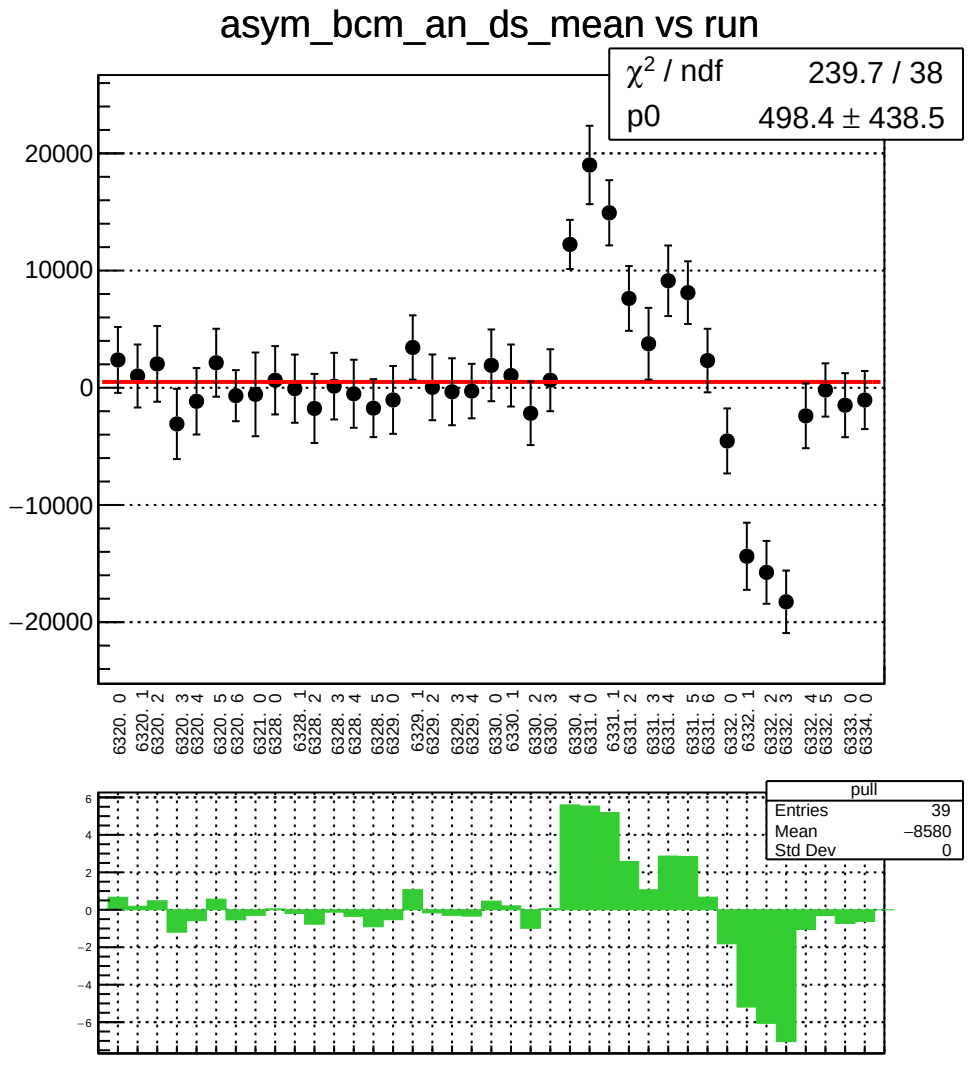

pull1D
Entries 39
Mean 0.0007237
Std Dev 2.458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

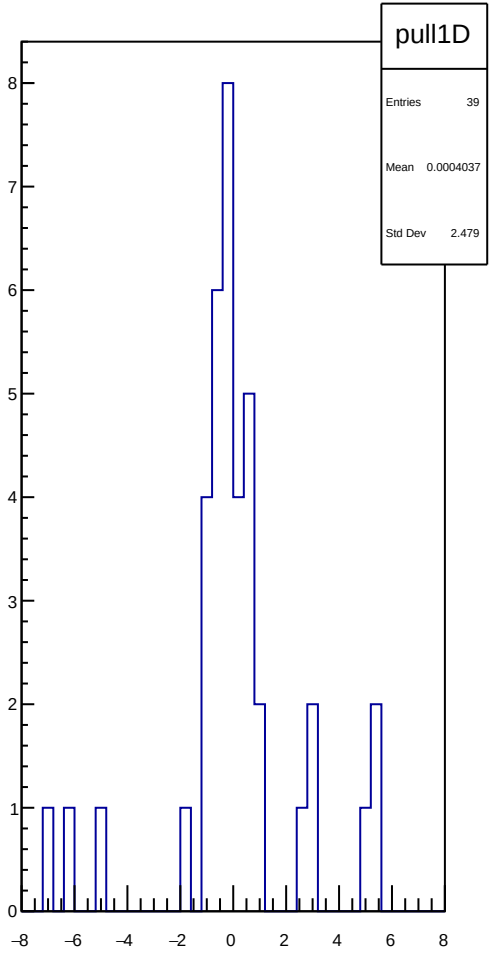

asym_bcm_target_rms vs run
χ² / ndf 1972 / 38
p0 270.7 ± 0.3113
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

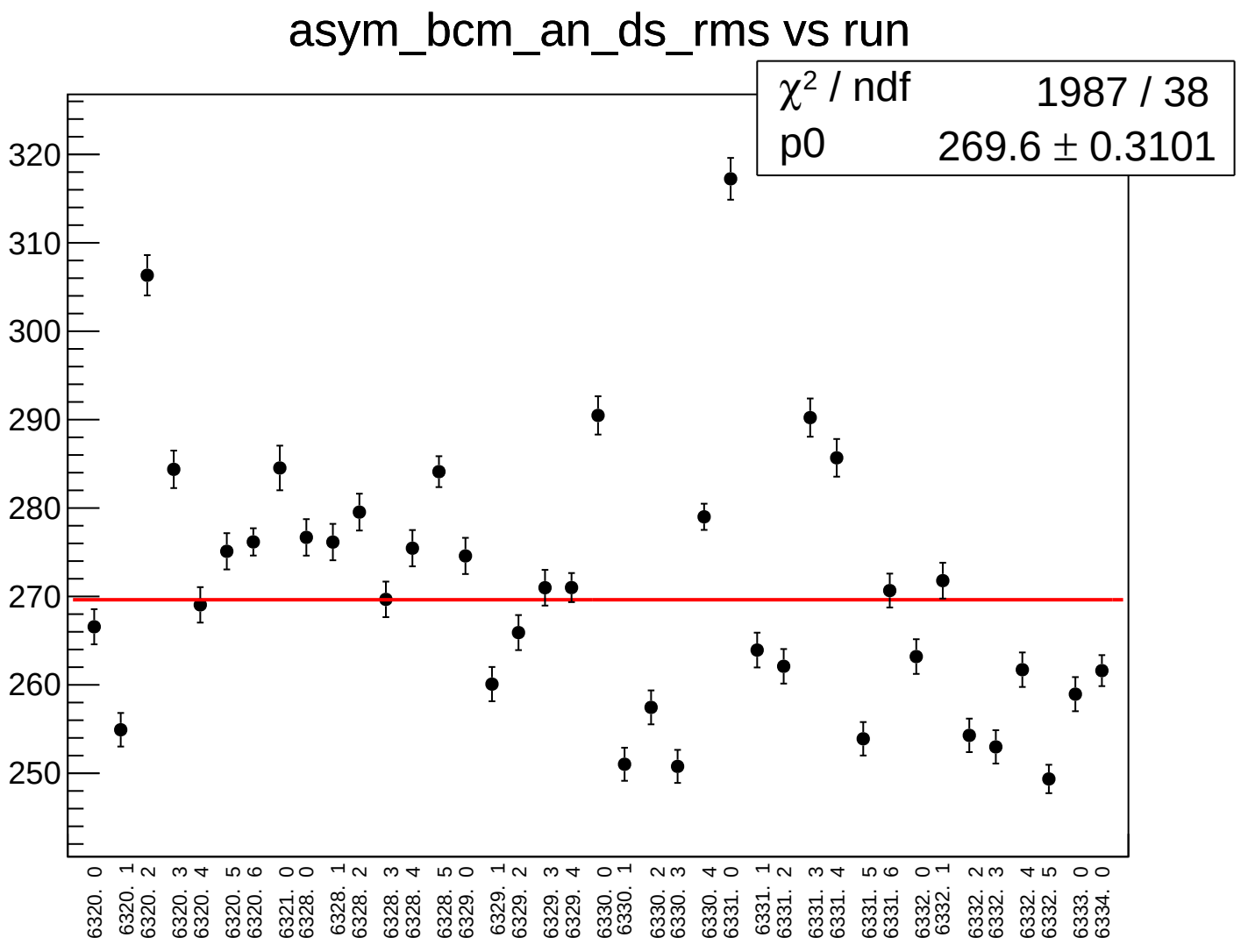

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 31.71 / 37
p0 48.26 ± 42.27
400
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 38
Mean 12.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

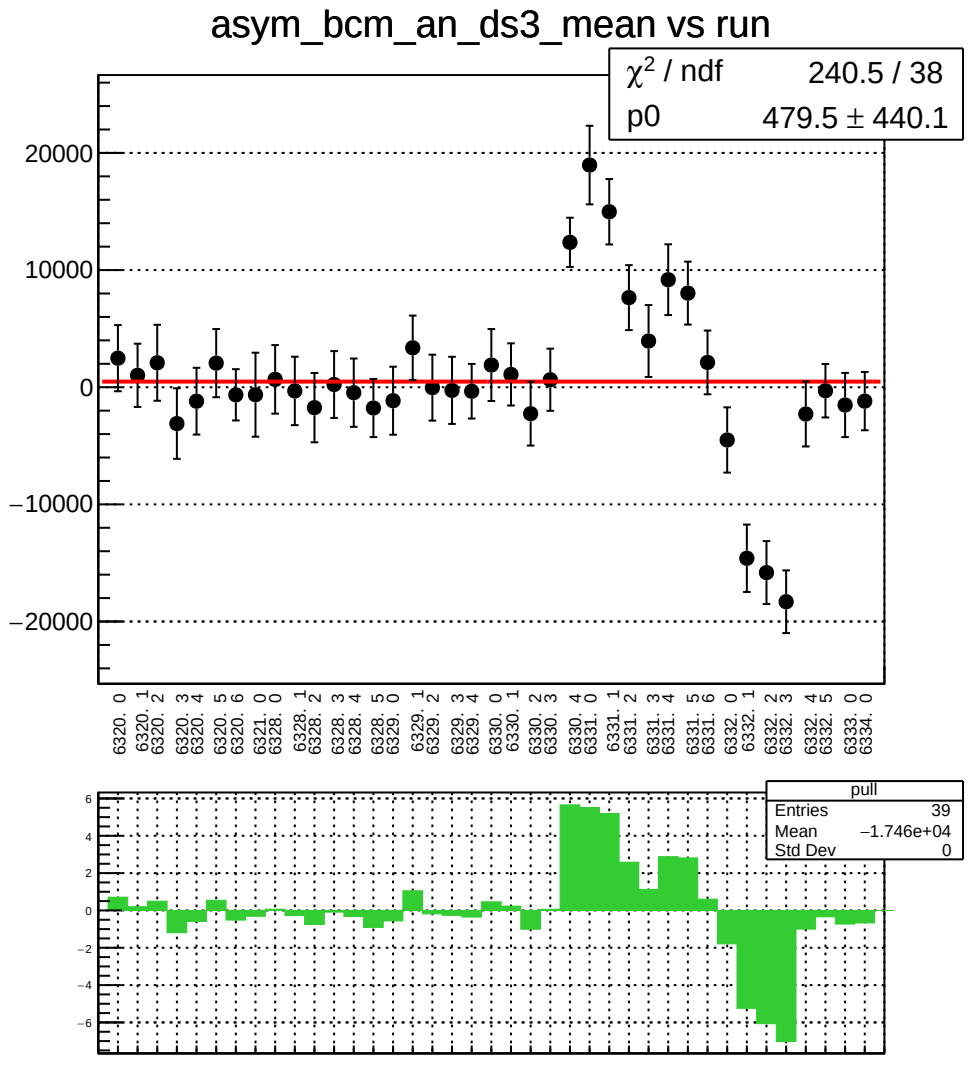

pull1D
Entries 38
Mean 0.1018
Std Dev 0.9078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

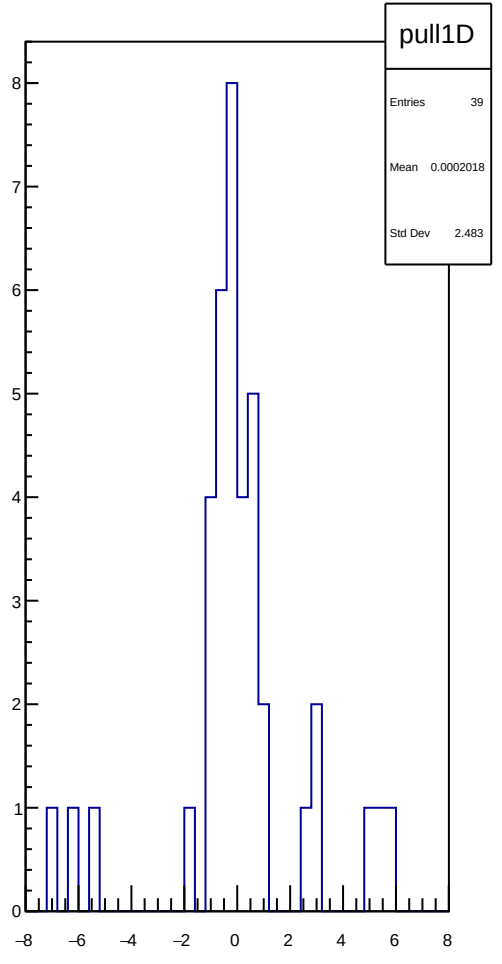

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.762e+05 / 30
p0 1.959e+04 ± 29.89
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

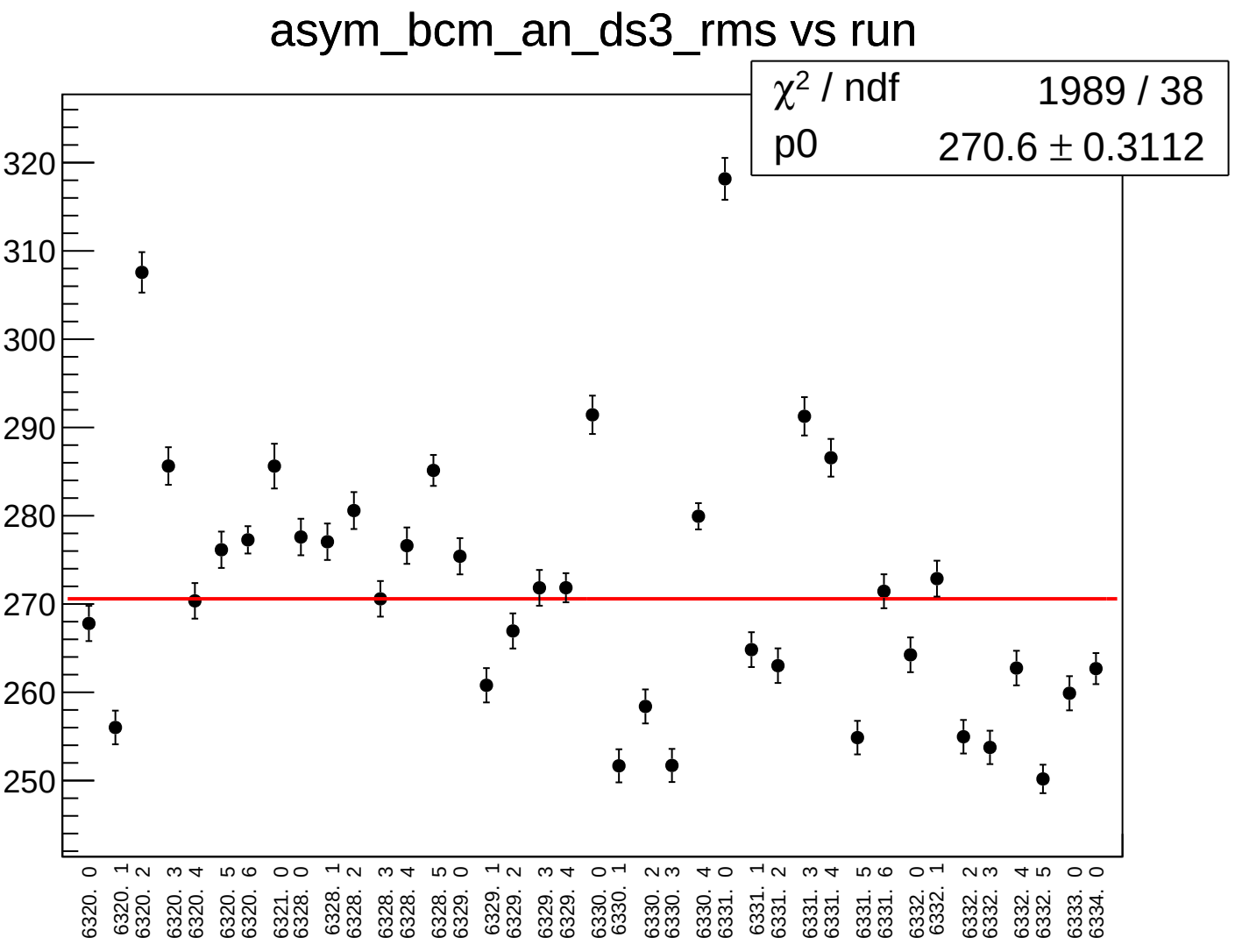

asym_bcm_an_ds_mean vs run
χ² / ndf 239.7 / 38
p0 498.4 ± 438.5
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8580
Std Dev 0
6
4
2
0
−2
−4
−6

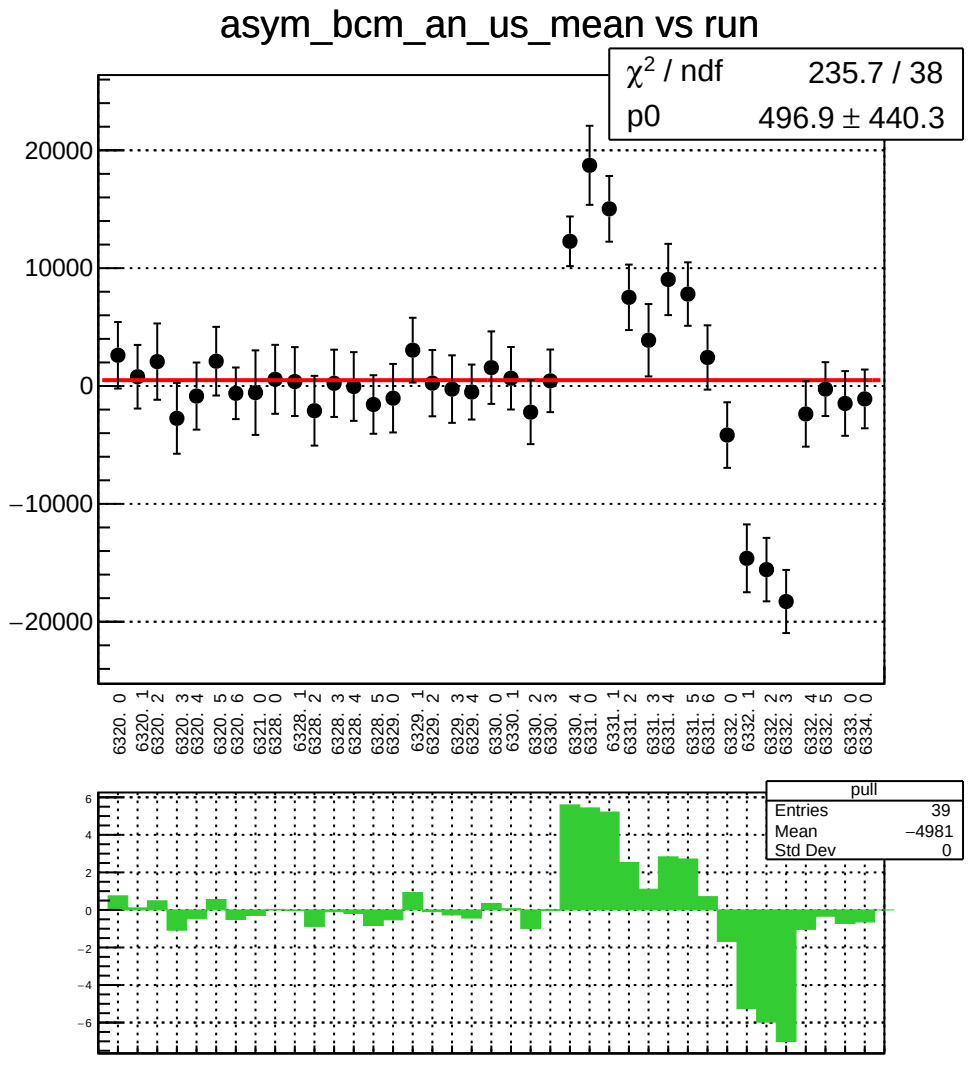

pull1D
Entries 39
Mean 0.0004037
Std Dev 2.479
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

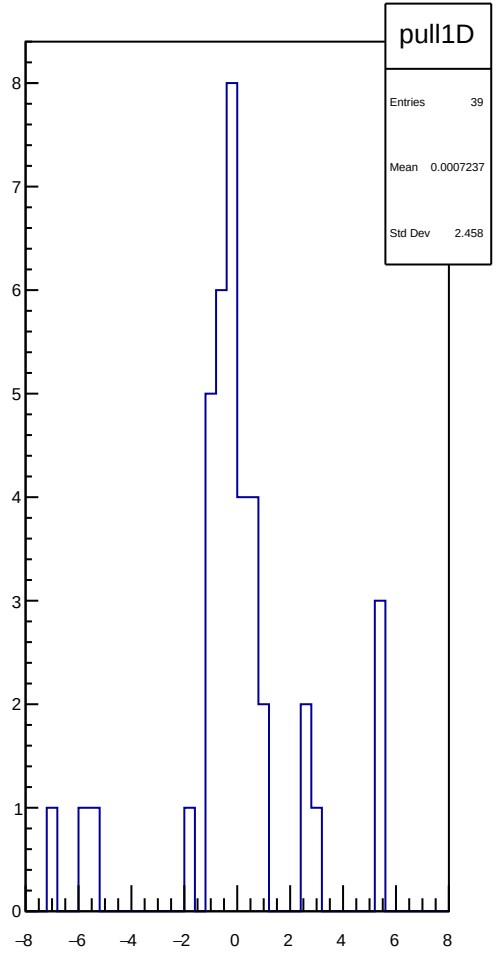

asym_bcm_an_ds_rms vs run
χ² / ndf 1987 / 38
p0 269.6 ± 0.3101
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

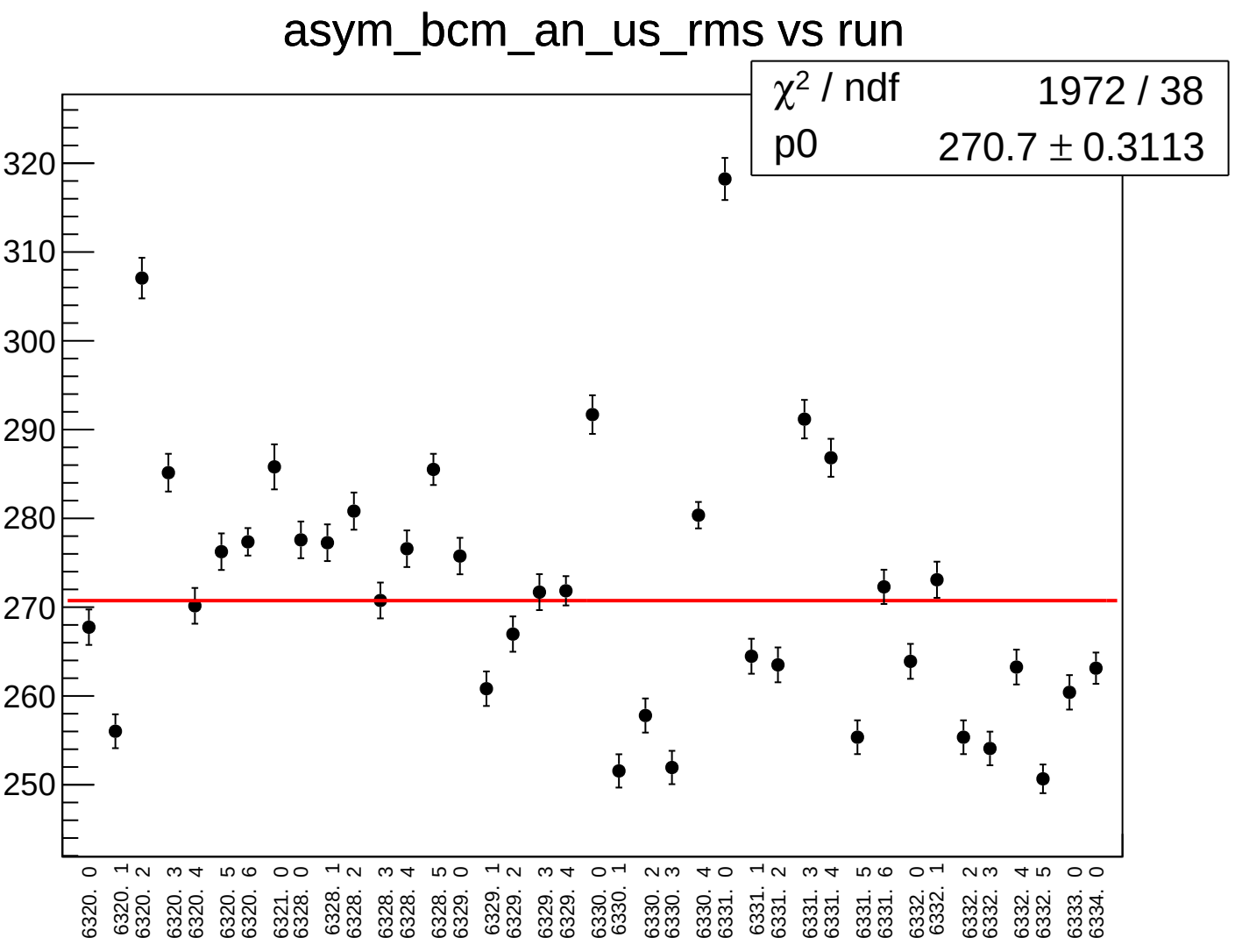

asym_bcm_an_ds3_mean vs run
χ² / ndf 240.5 / 38
p0 479.5 ± 440.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.746e+04
Std Dev 0
6
4
2
0
−2
−4
−6

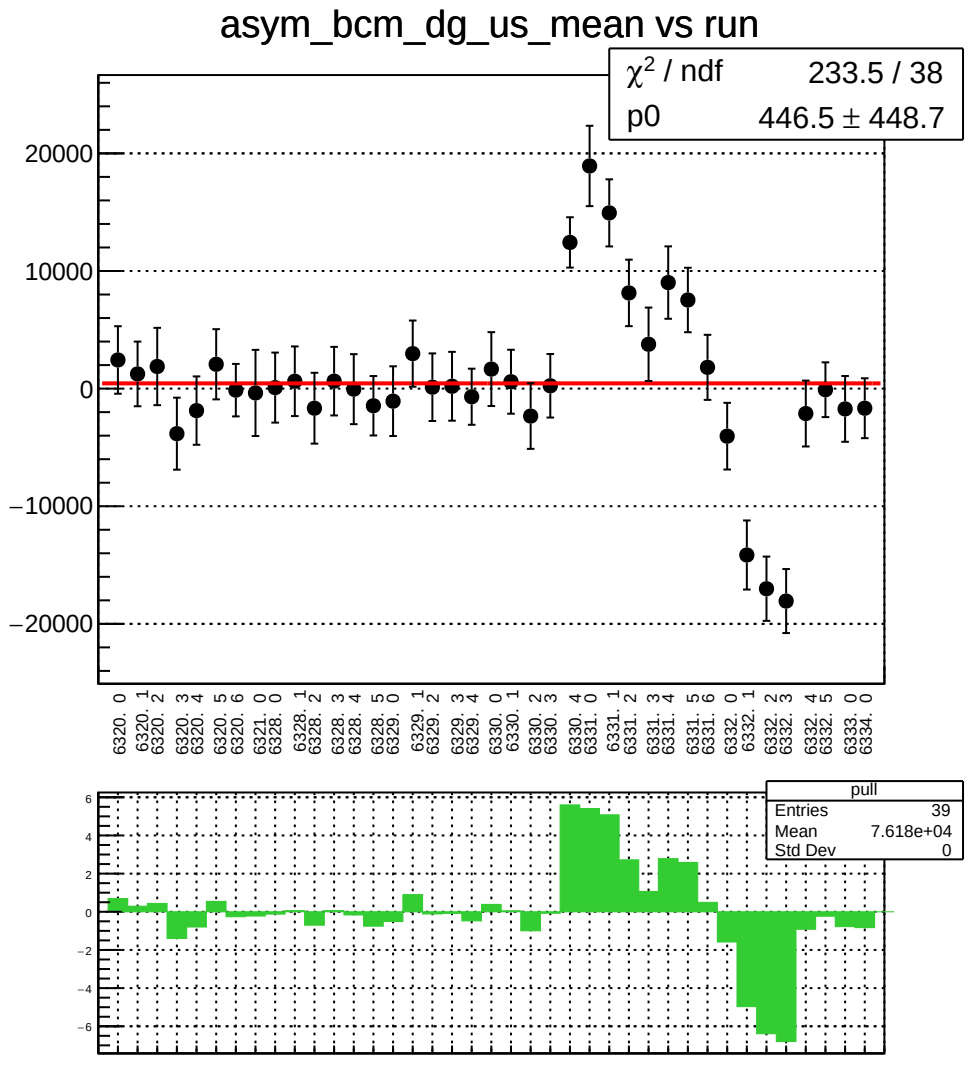

pull1D
Entries 39
Mean 0.0002018
Std Dev 2.483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

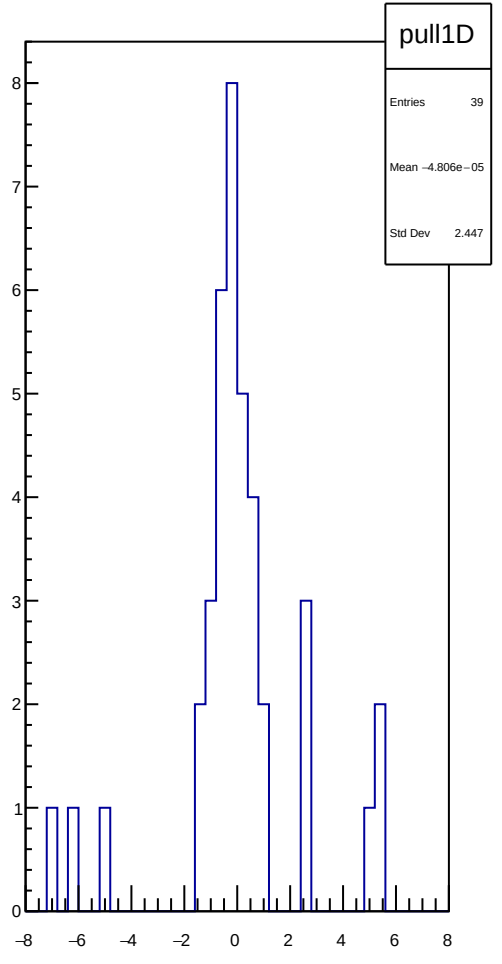

asym_bcm_an_ds3_rms vs run
χ² / ndf 1989 / 38
p0 270.6 ± 0.3112
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

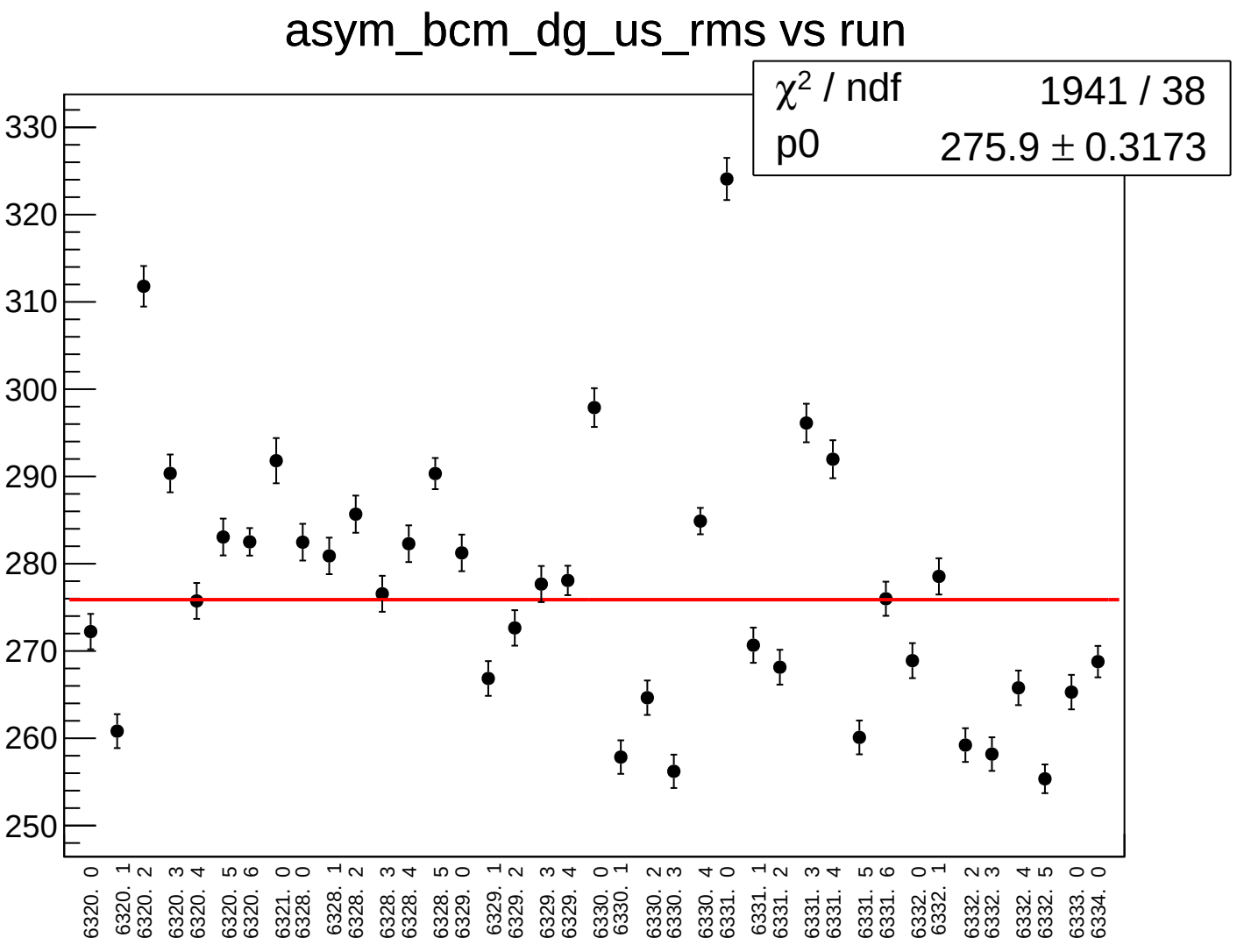

asym_bcm_an_us_mean vs run
χ² / ndf 235.7 / 38
p0 496.9 ± 440.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4981
Std Dev 0
6
4
2
0
−2
−4
−6

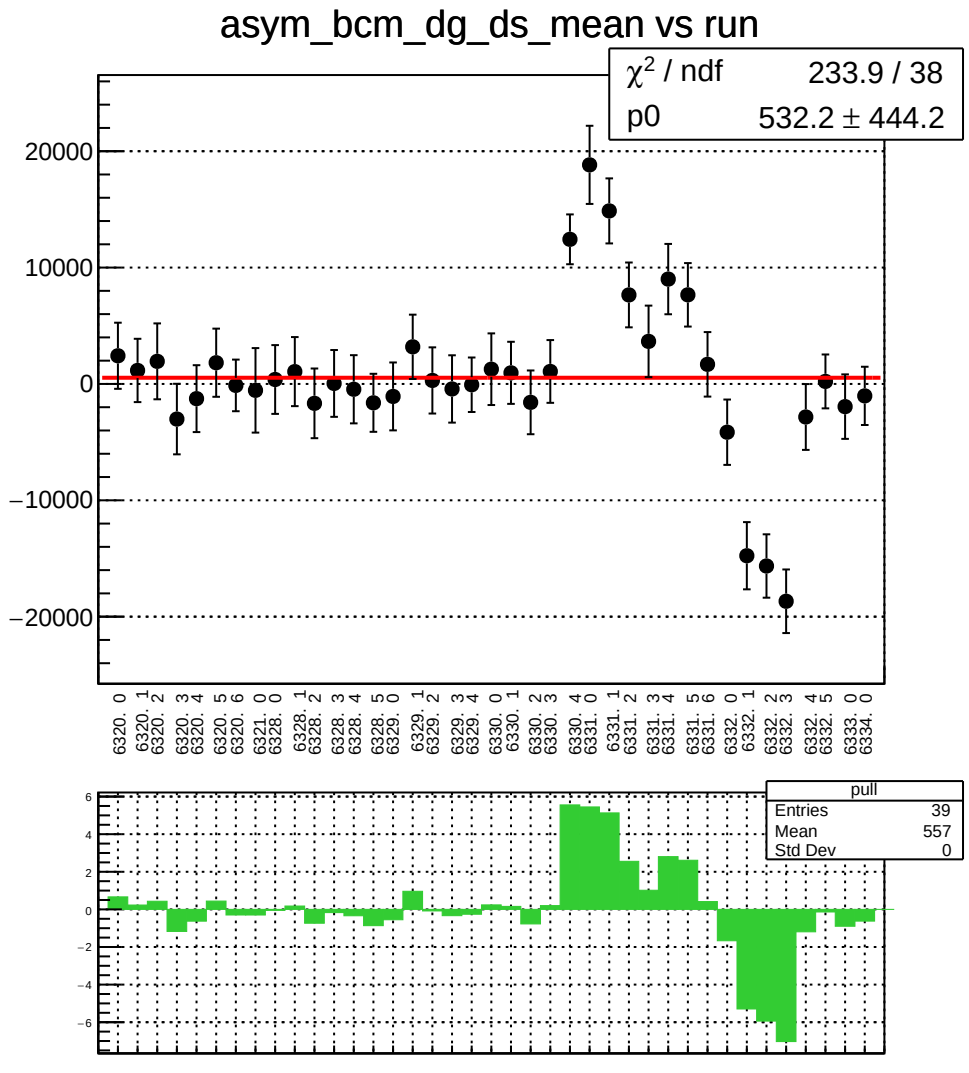

pull1D
Entries 39
Mean 0.0007237
Std Dev 2.458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

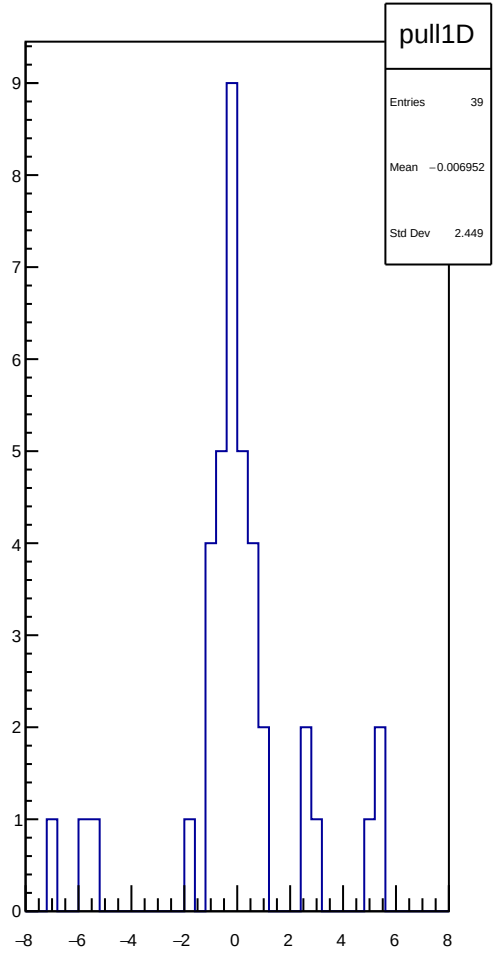

asym_bcm_an_us_rms vs run
χ² / ndf 1972 / 38
p0 270.7 ± 0.3113
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

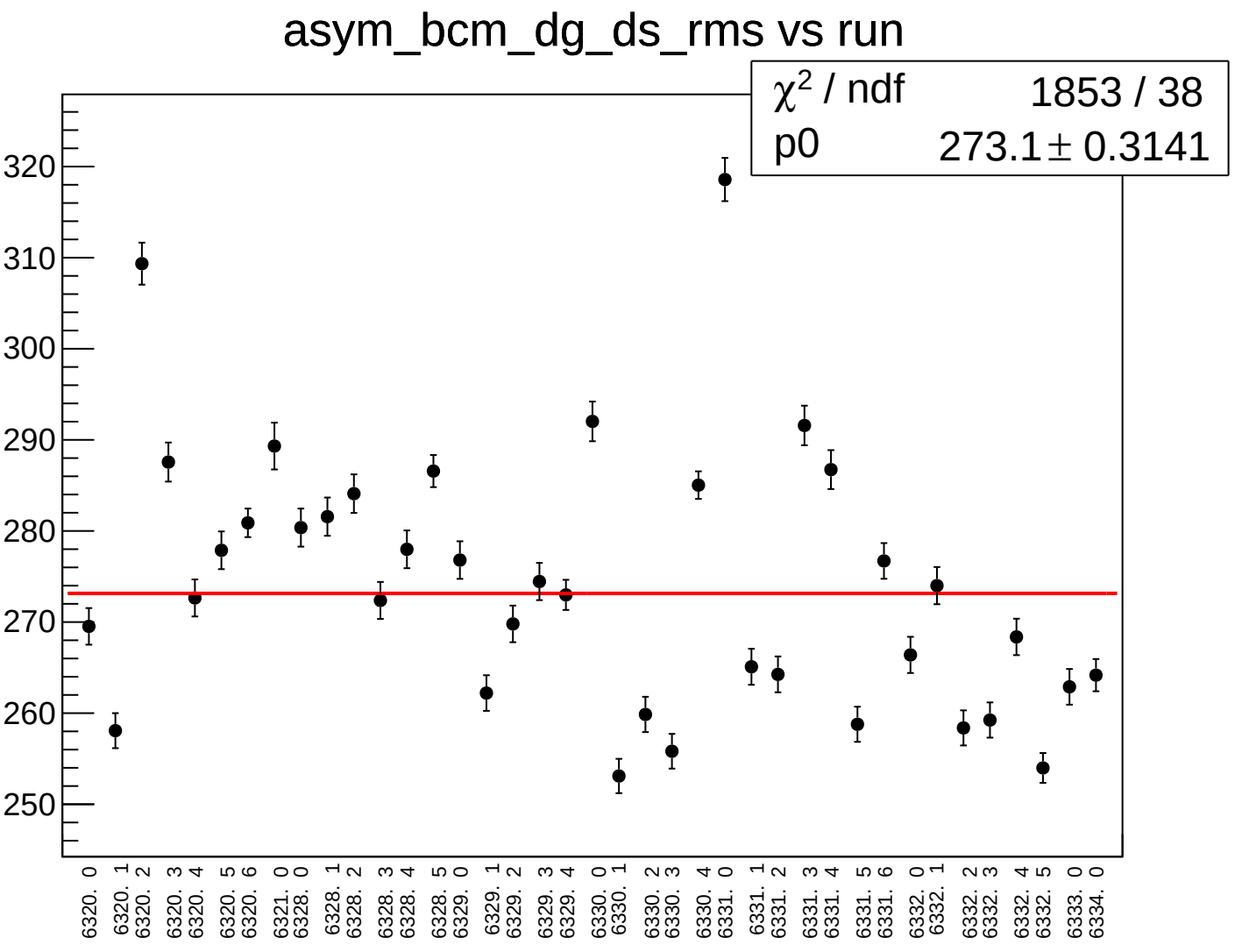

asym_bcm_dg_us_mean vs run
χ² / ndf 233.5 / 38
p0 446.5 ± 448.7
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.618e+04
Std Dev 0
6
4
2
0
−2
−4
−6

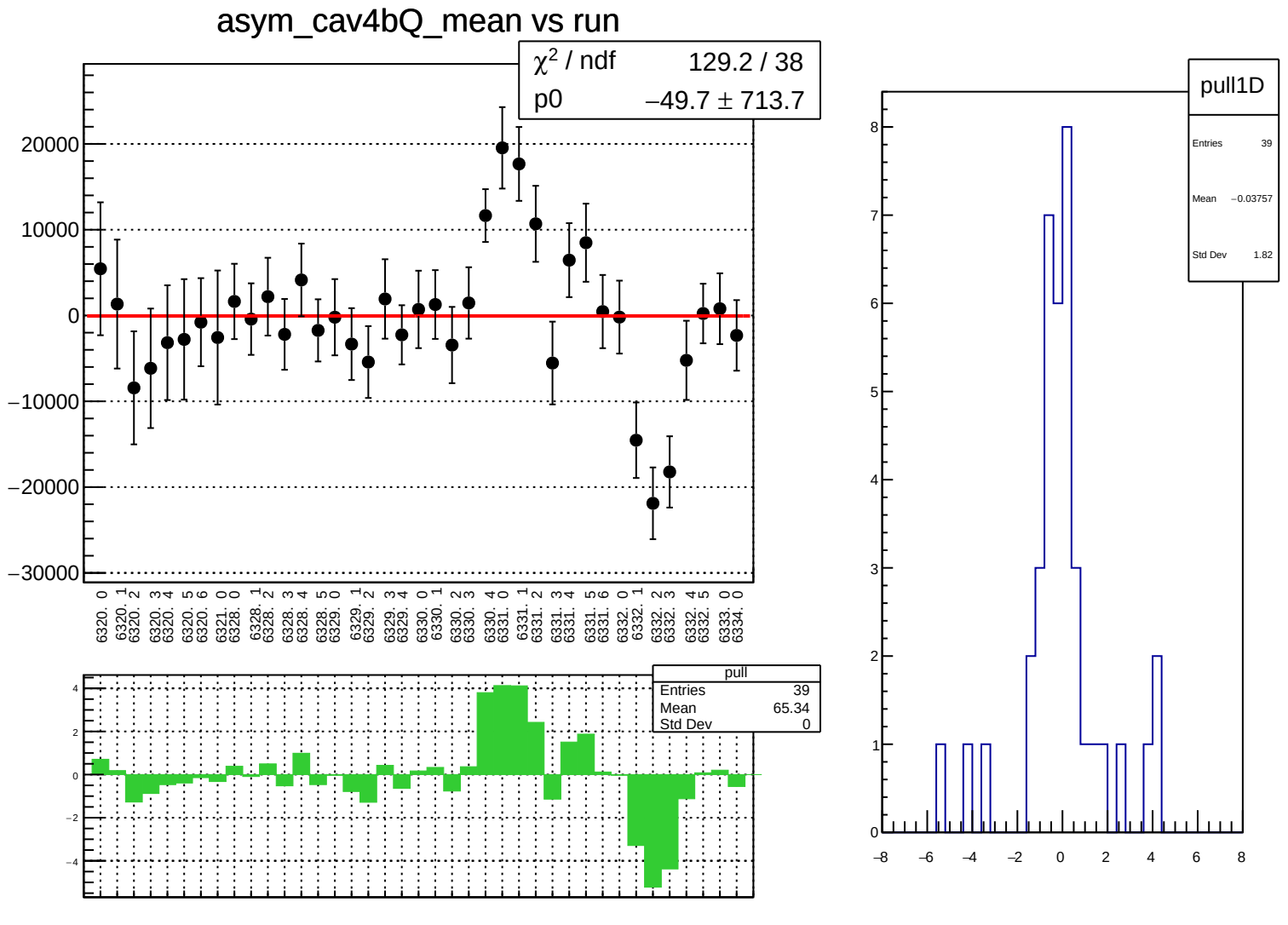

pull1D
Entries 39
Mean −4.806e−05
Std Dev 2.447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

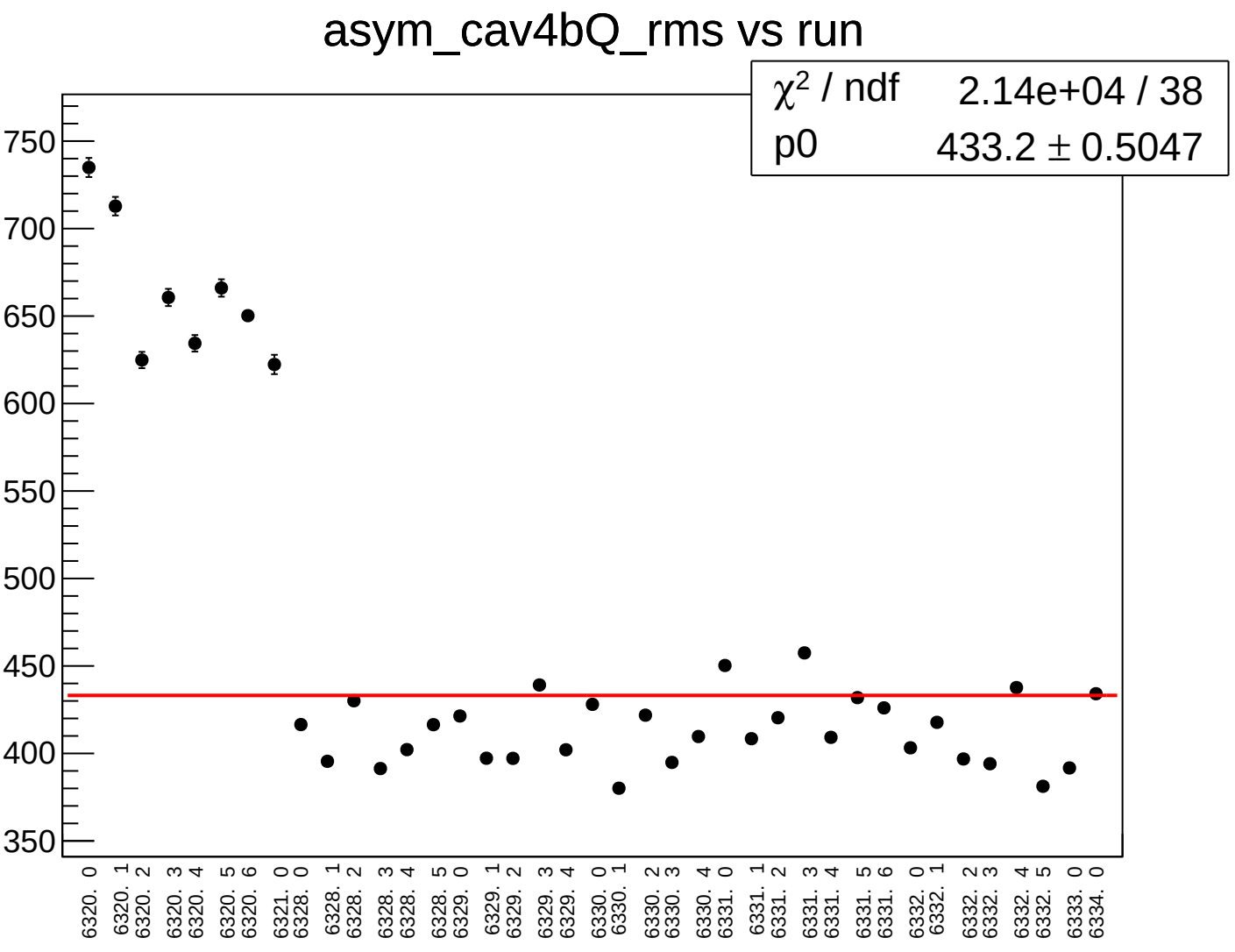

asym_bcm_dg_us_rms vs run
χ² / ndf 1941 / 38
p0 275.9 ± 0.3173
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

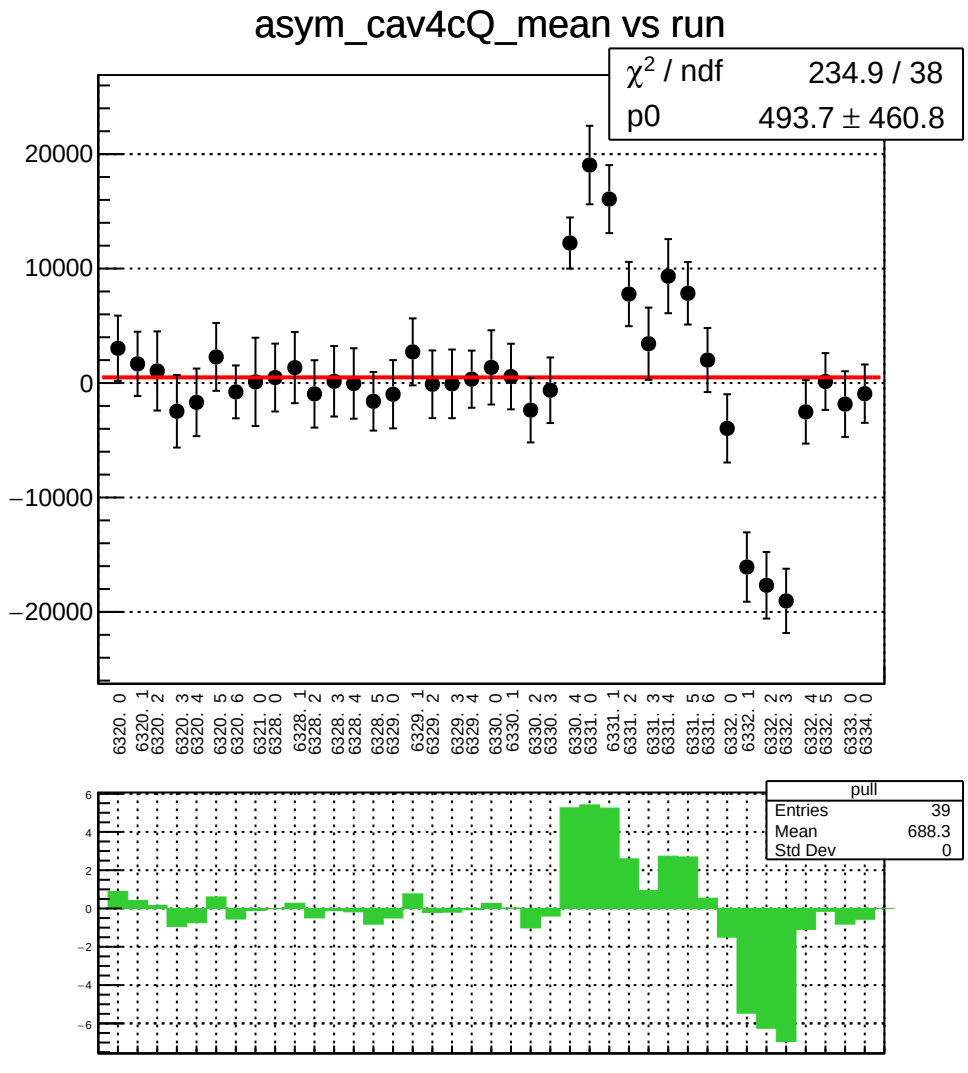

asym_bcm_dg_ds_mean vs run
χ² / ndf 233.9 / 38
p0 532.2 ± 444.2
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 557
Std Dev 0
6
4
2
0
−2
−4
−6

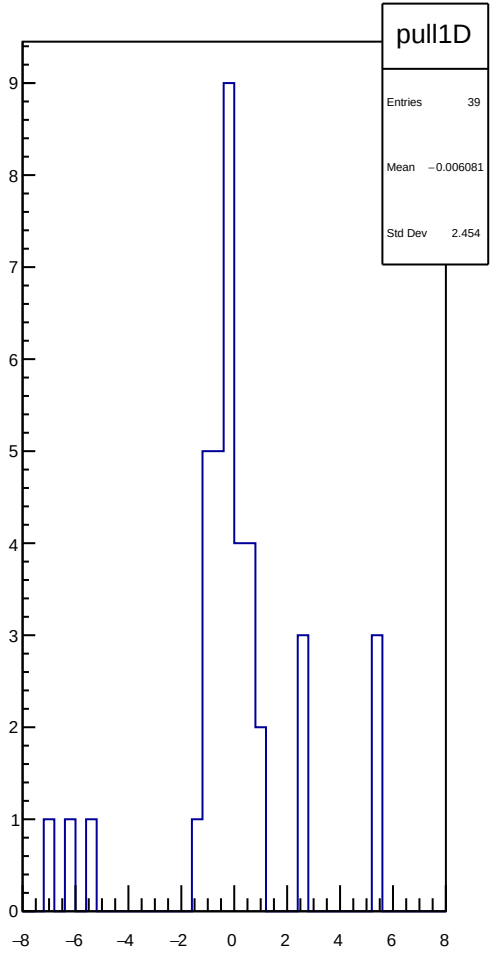

pull1D
Entries 39
Mean −0.006952
Std Dev 2.449
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

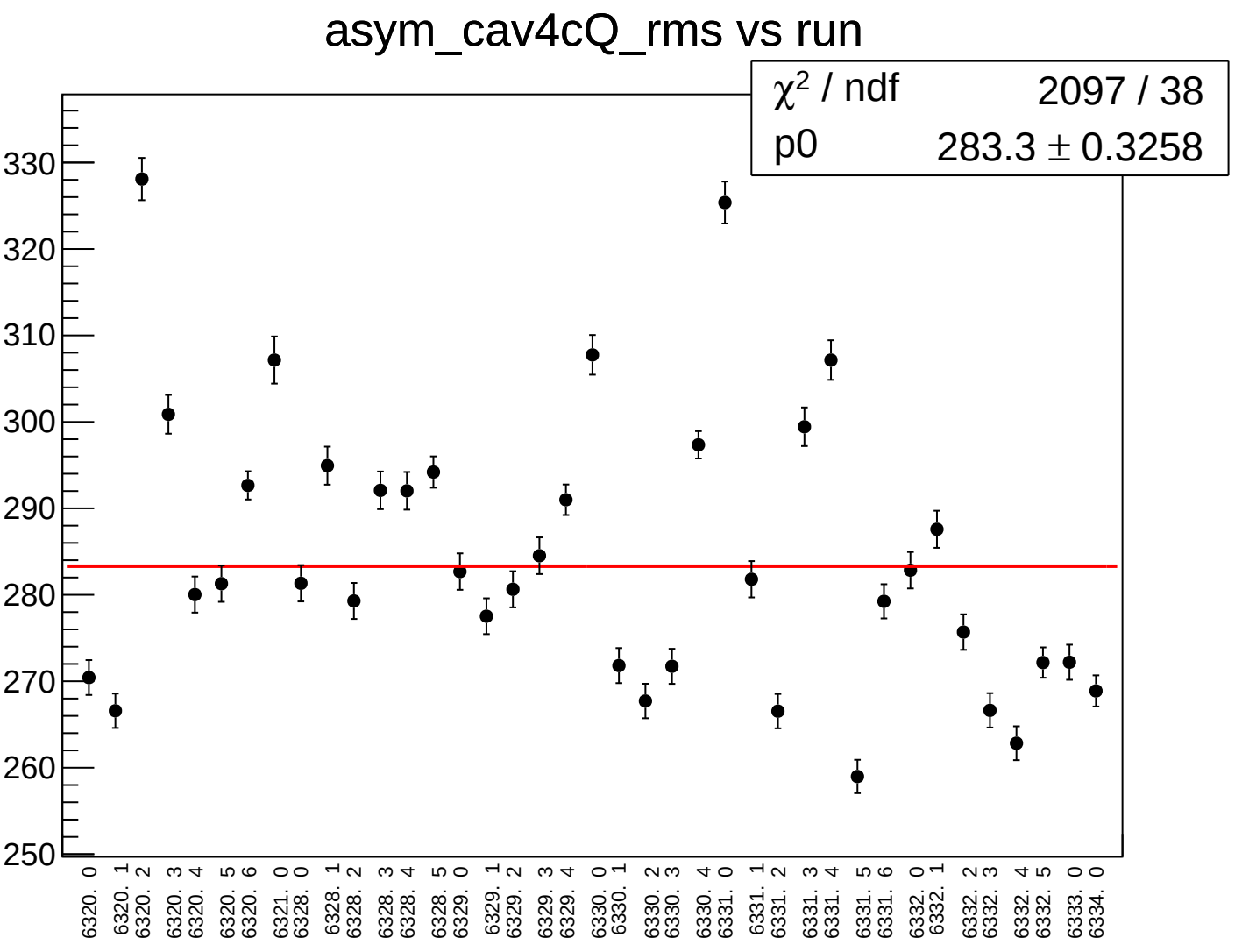

asym_bcm_dg_ds_rms vs run
χ² / ndf 1853 / 38
p0 273.1 ± 0.3141
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

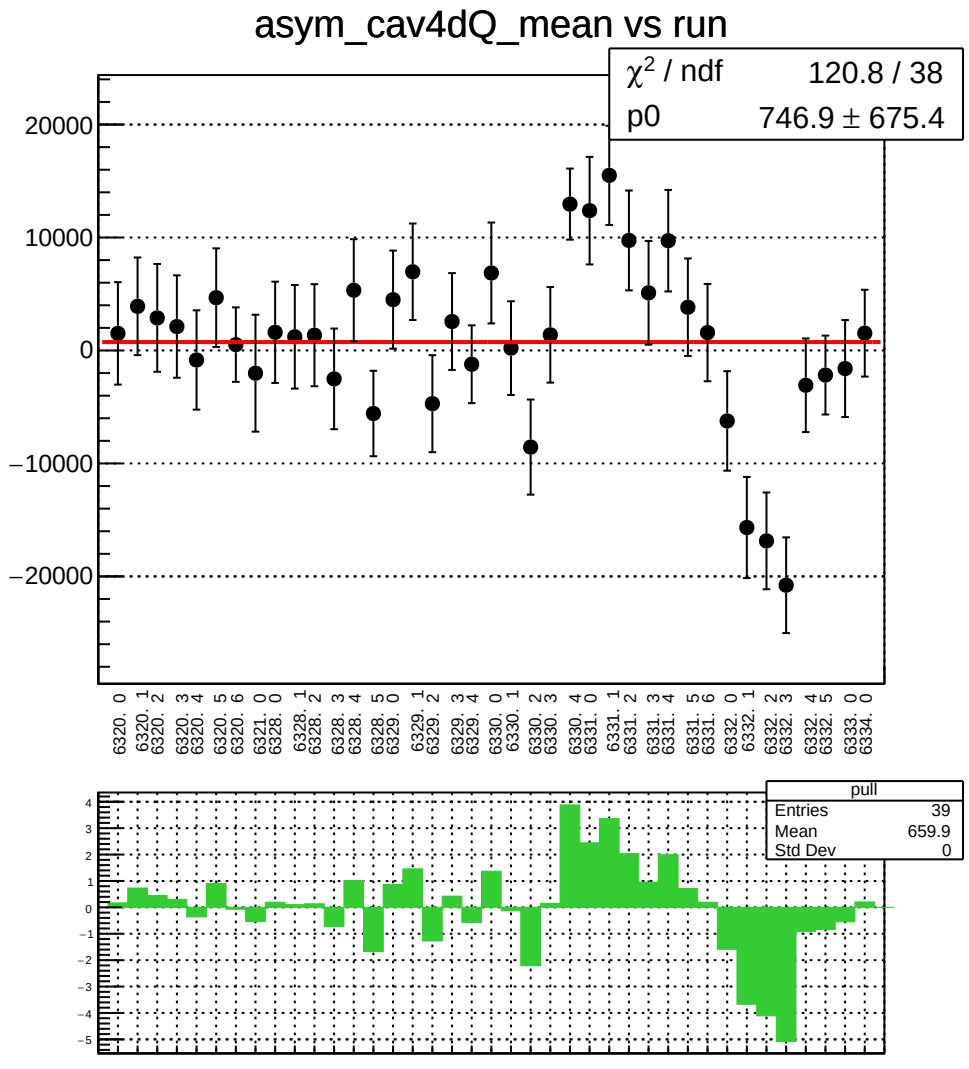

asym_cav4bQ_mean vs run
χ² / ndf 129.2 / 38
p0 −49.7 ± 713.7
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 65.34
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 39
Mean −0.03757
Std Dev 1.82
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

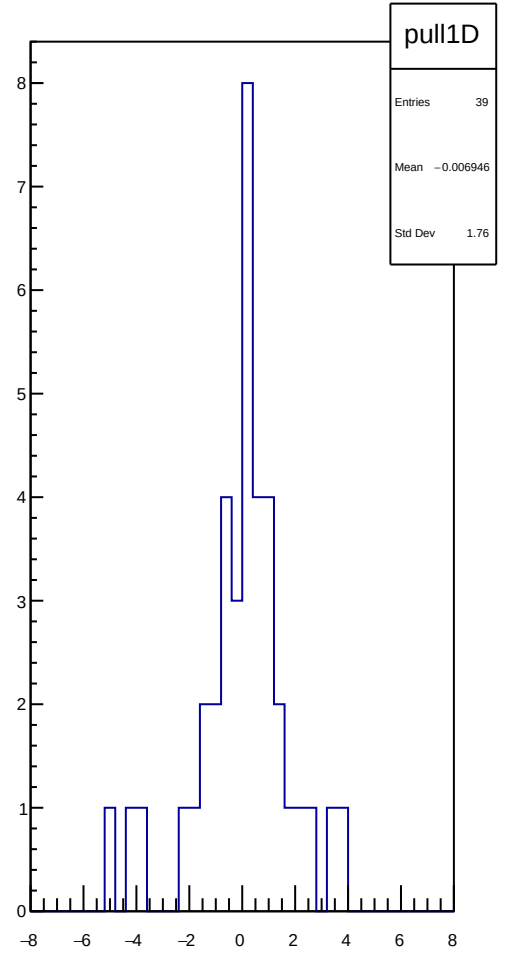

asym_cav4bQ_rms vs run
χ² / ndf 2.14e+04 / 38
p0 433.2 ± 0.5047
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

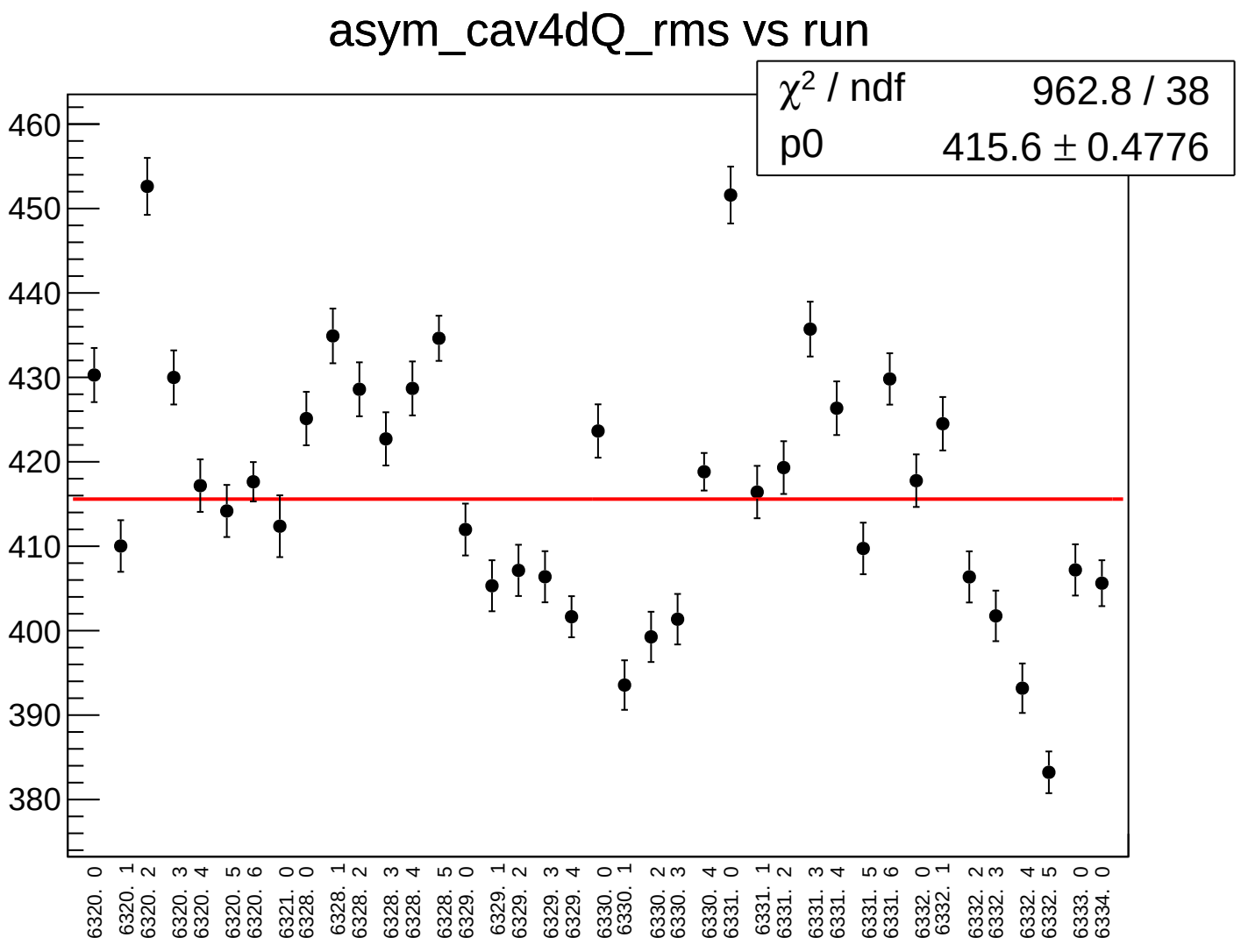

asym_cav4cQ_mean vs run
χ² / ndf 234.9 / 38
p0 493.7 ± 460.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 688.3
Std Dev 0
6
4
2
0
−2
−4
−6

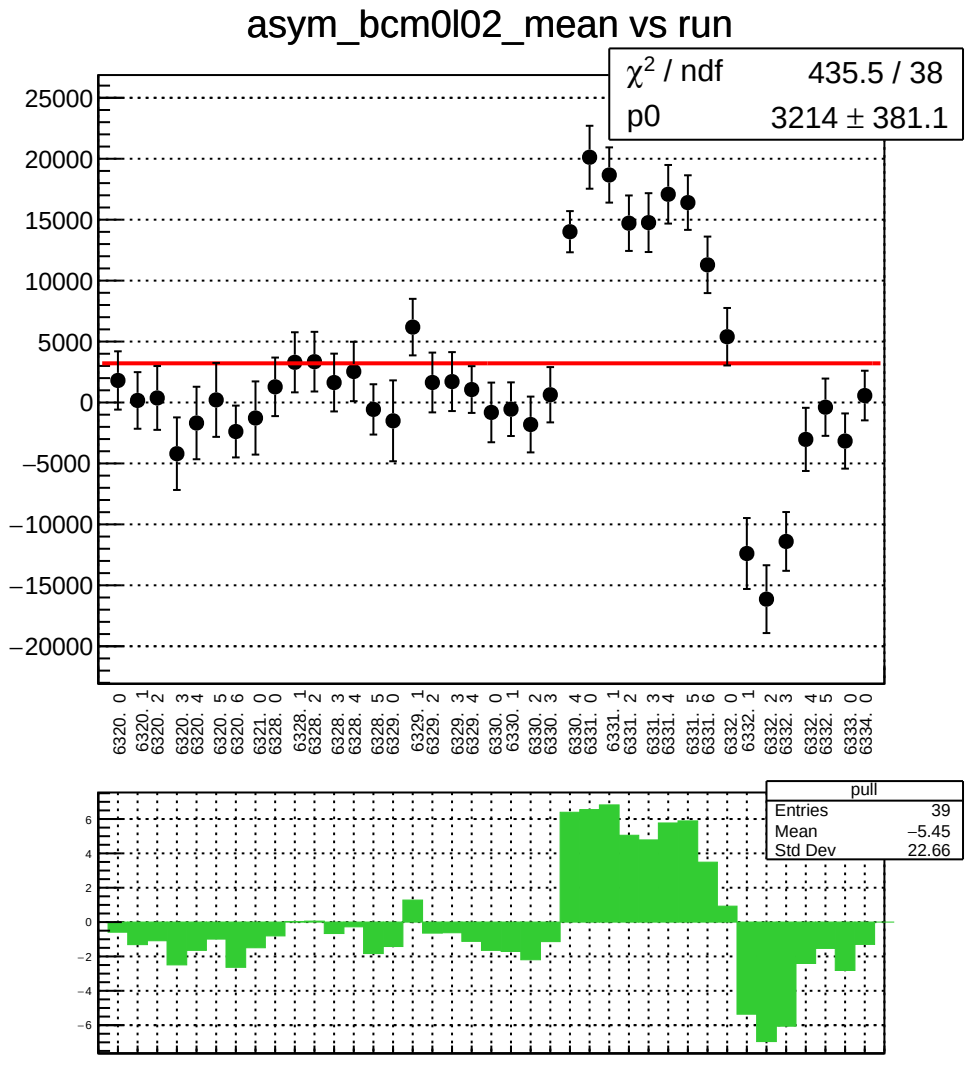

pull1D
Entries 39
Mean −0.006081
Std Dev 2.454
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

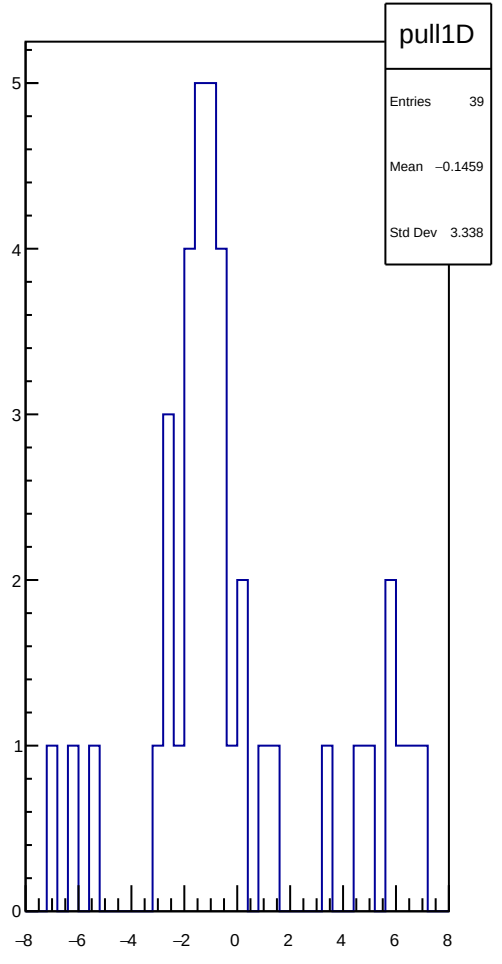

asym_cav4cQ_rms vs run
χ² / ndf 2097 / 38
p0 283.3 ± 0.3258
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

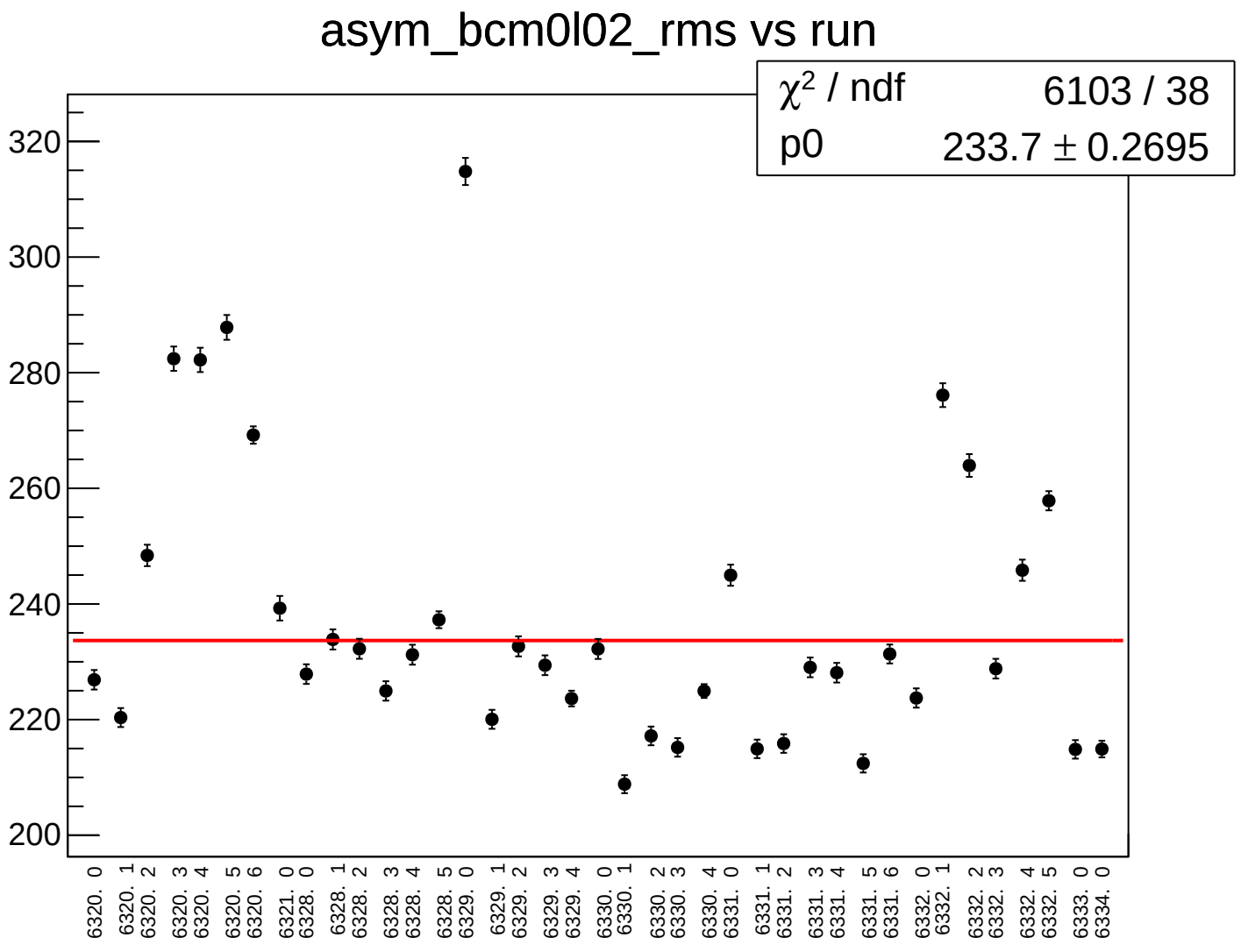

asym_cav4dQ_mean vs run
χ² / ndf 120.8 / 38
p0 746.9 ± 675.4
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 659.9
Std Dev 0

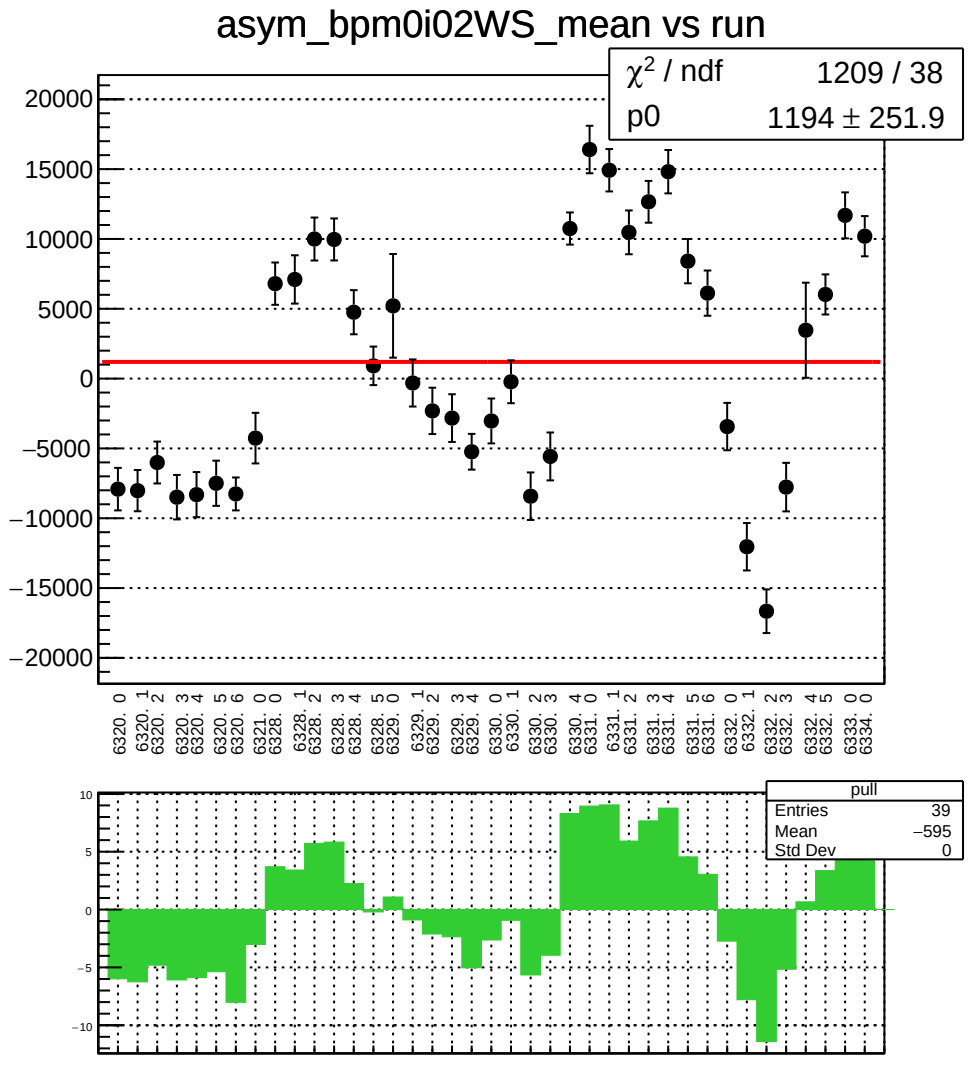

pull1D
Entries 39
Mean −0.006946
Std Dev 1.76

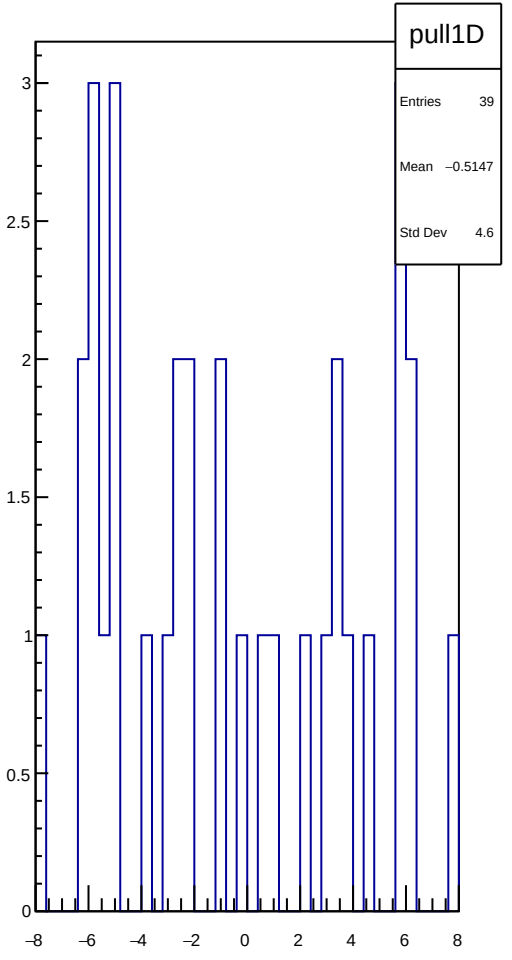

asym_cav4dQ_rms vs run
χ² / ndf 962.8 / 38
p0 415.6 ± 0.4776
460
450
440
430
420
410
400
390
380
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

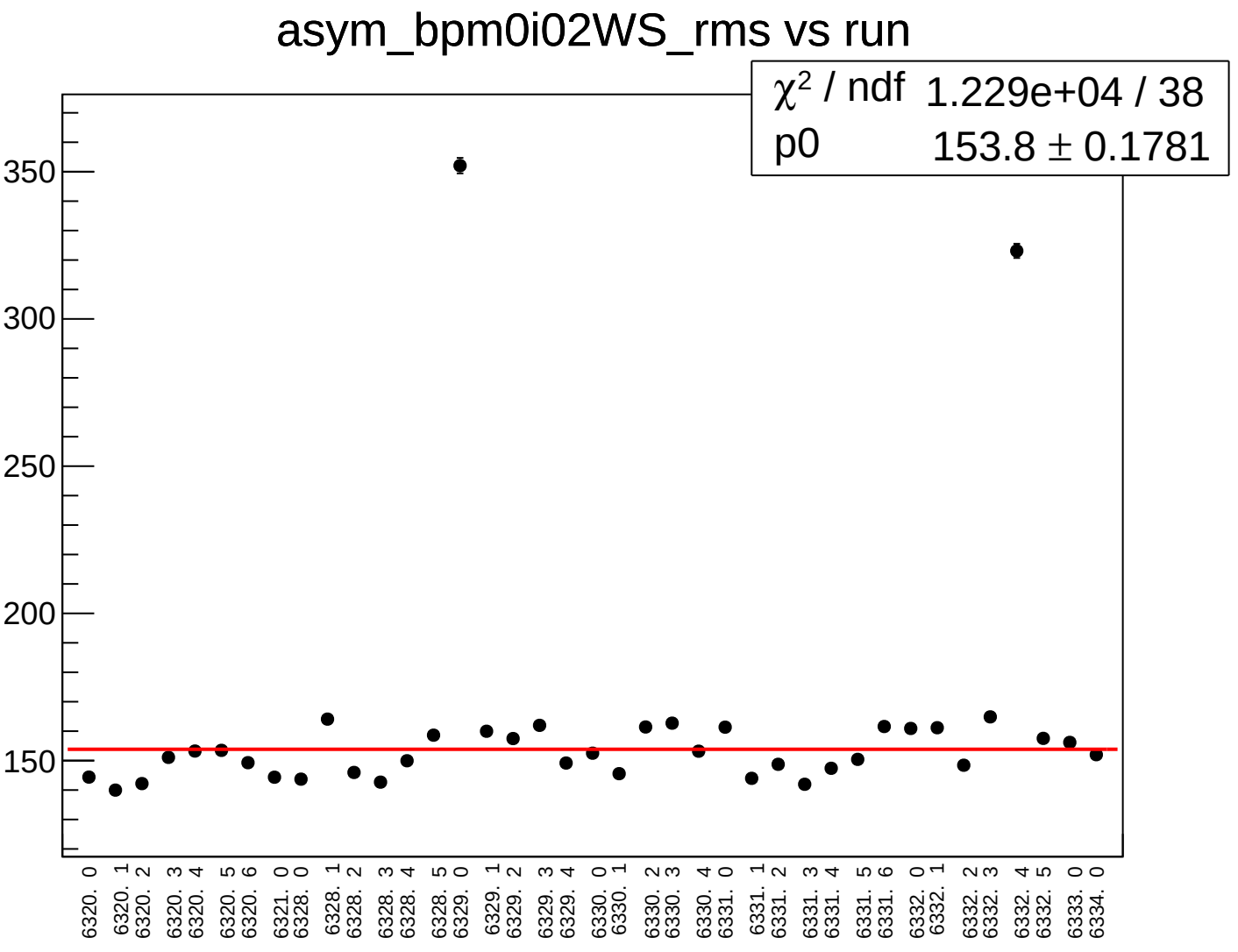

asym_bcm0l02_mean vs run
χ² / ndf 435.5 / 38
p0 3214 ± 381.1
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.45
Std Dev 22.66
6
4
2
0
−2
−4
−6

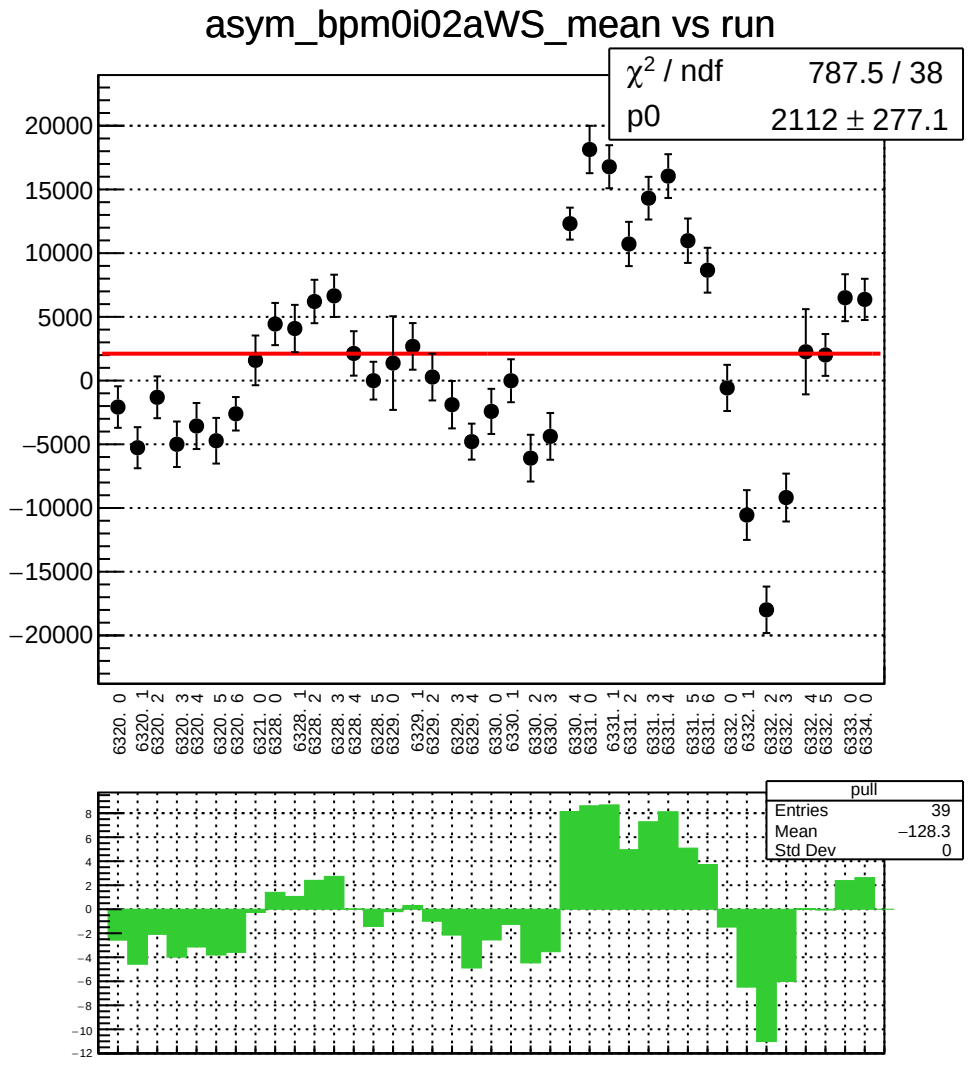

pull1D
Entries 39
Mean −0.1459
Std Dev 3.338
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

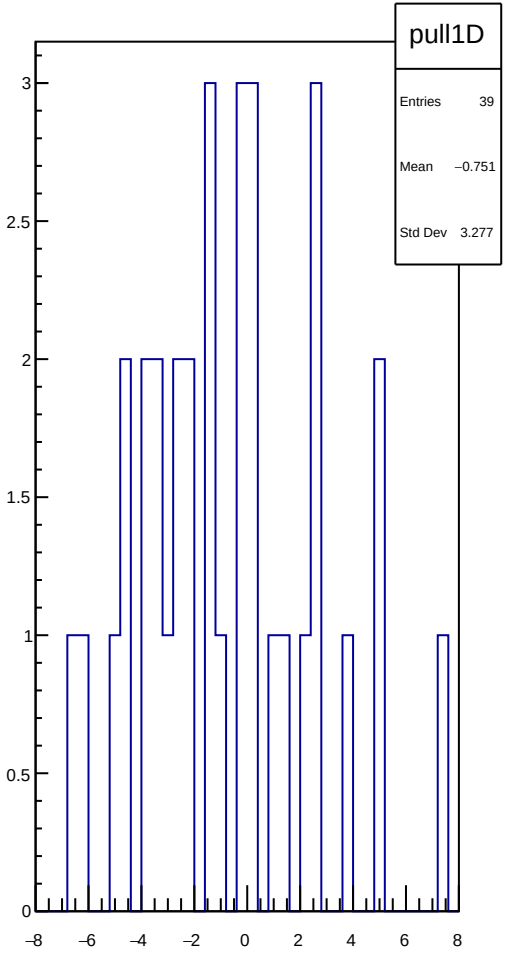

asym_bcm0l02_rms vs run
χ² / ndf 6103 / 38
p0 233.7 ± 0.2695
320
300
280
260
240
220
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

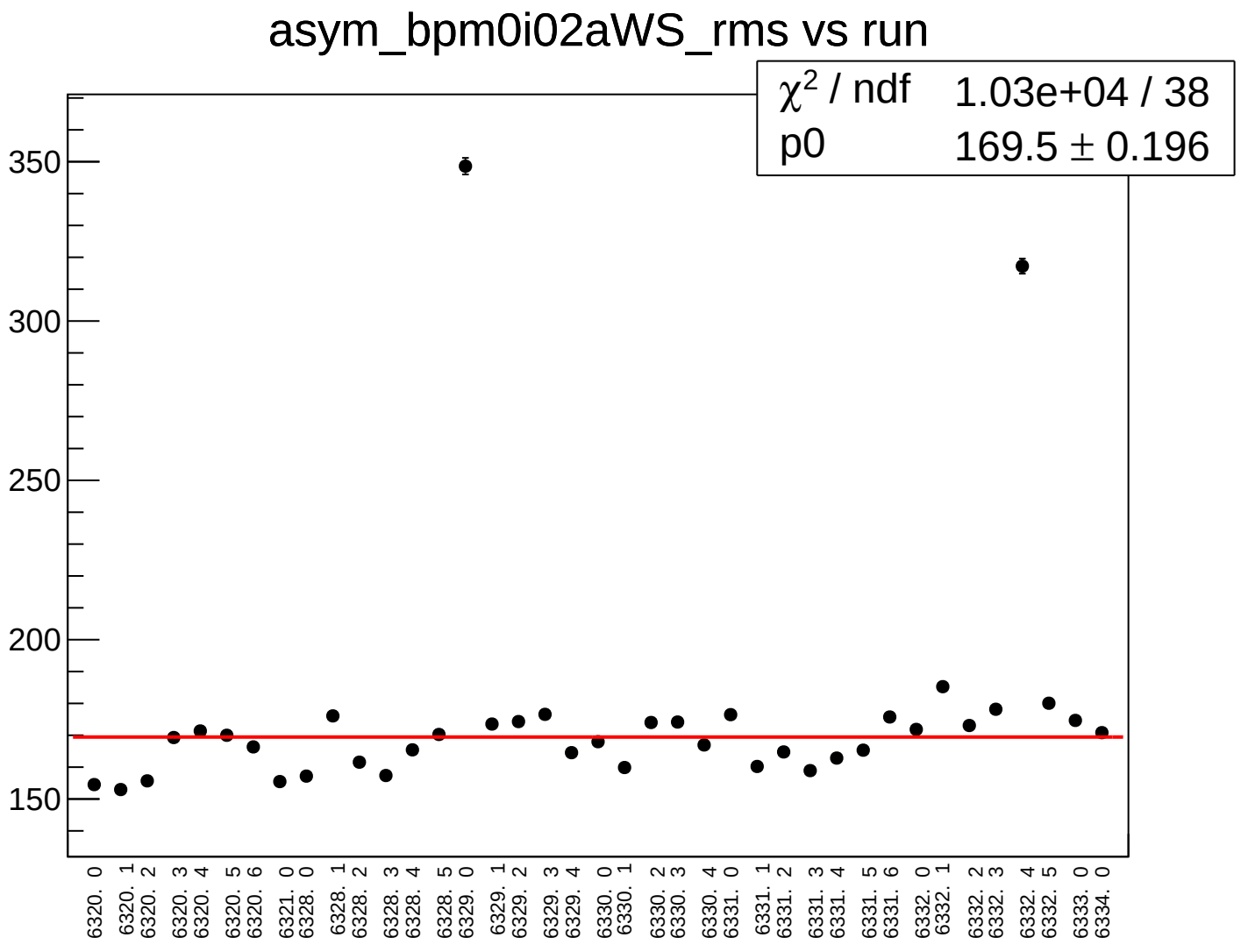

asym_bpm0i02WS_mean vs run
χ² / ndf 1209 / 38
p0 1194 ± 251.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −595
Std Dev 0
10
5
0
−5
−10

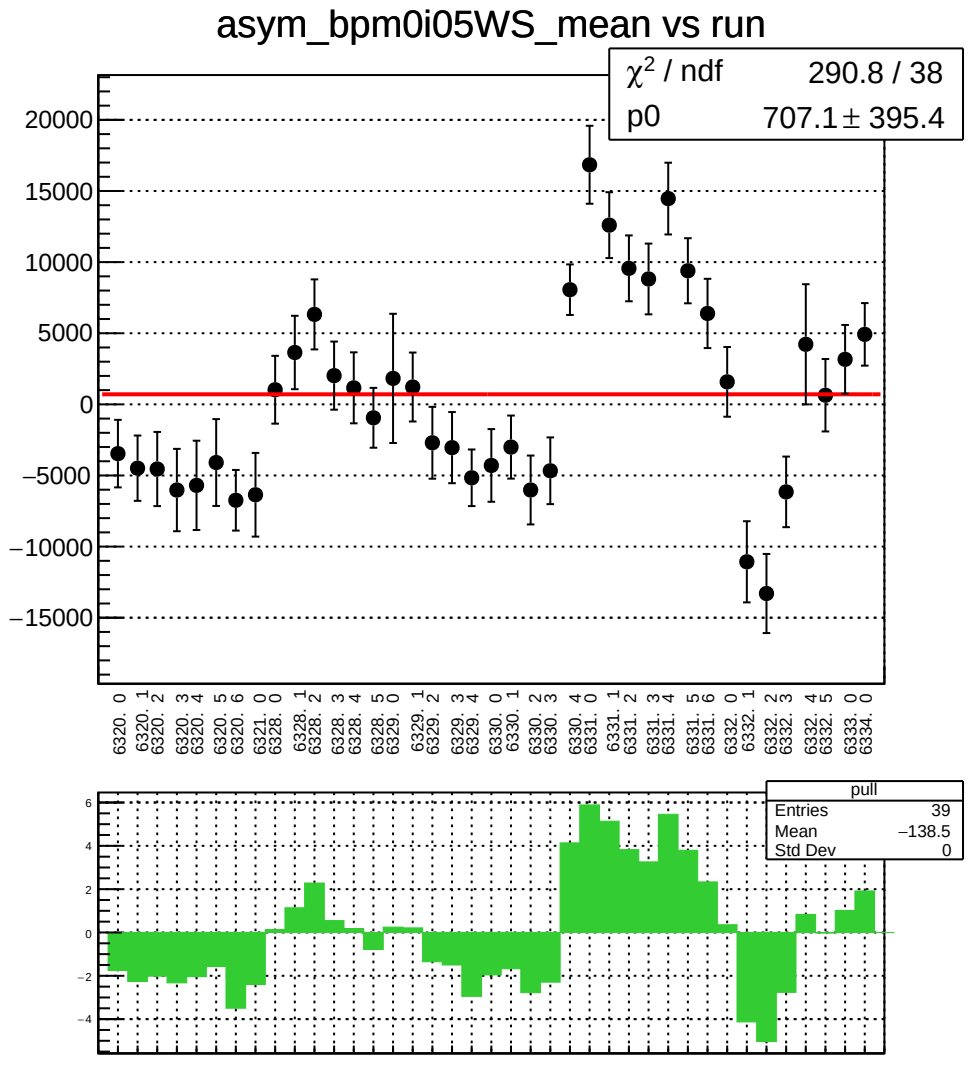

pull1D
Entries 39
Mean −0.5147
Std Dev 4.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

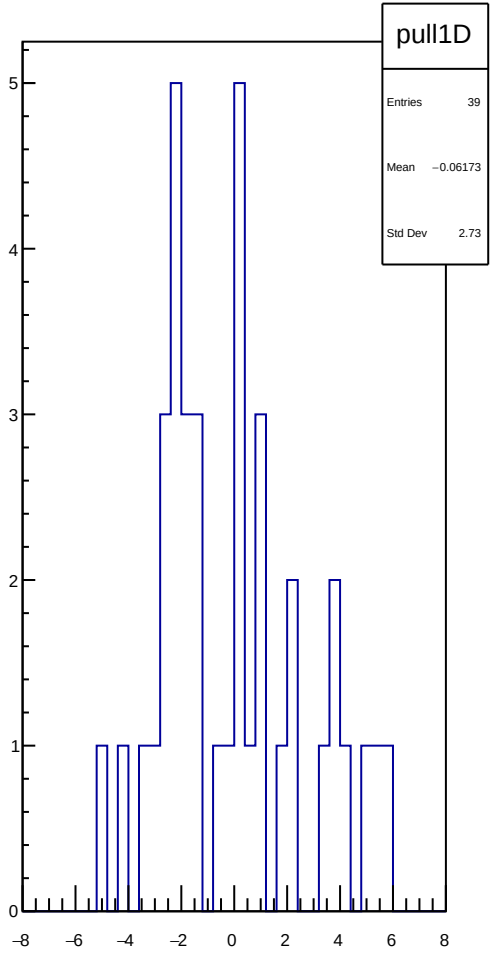

asym_bpm0i02WS_rms vs run
χ² / ndf 1.229e+04 / 38
p0 153.8 ± 0.1781
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

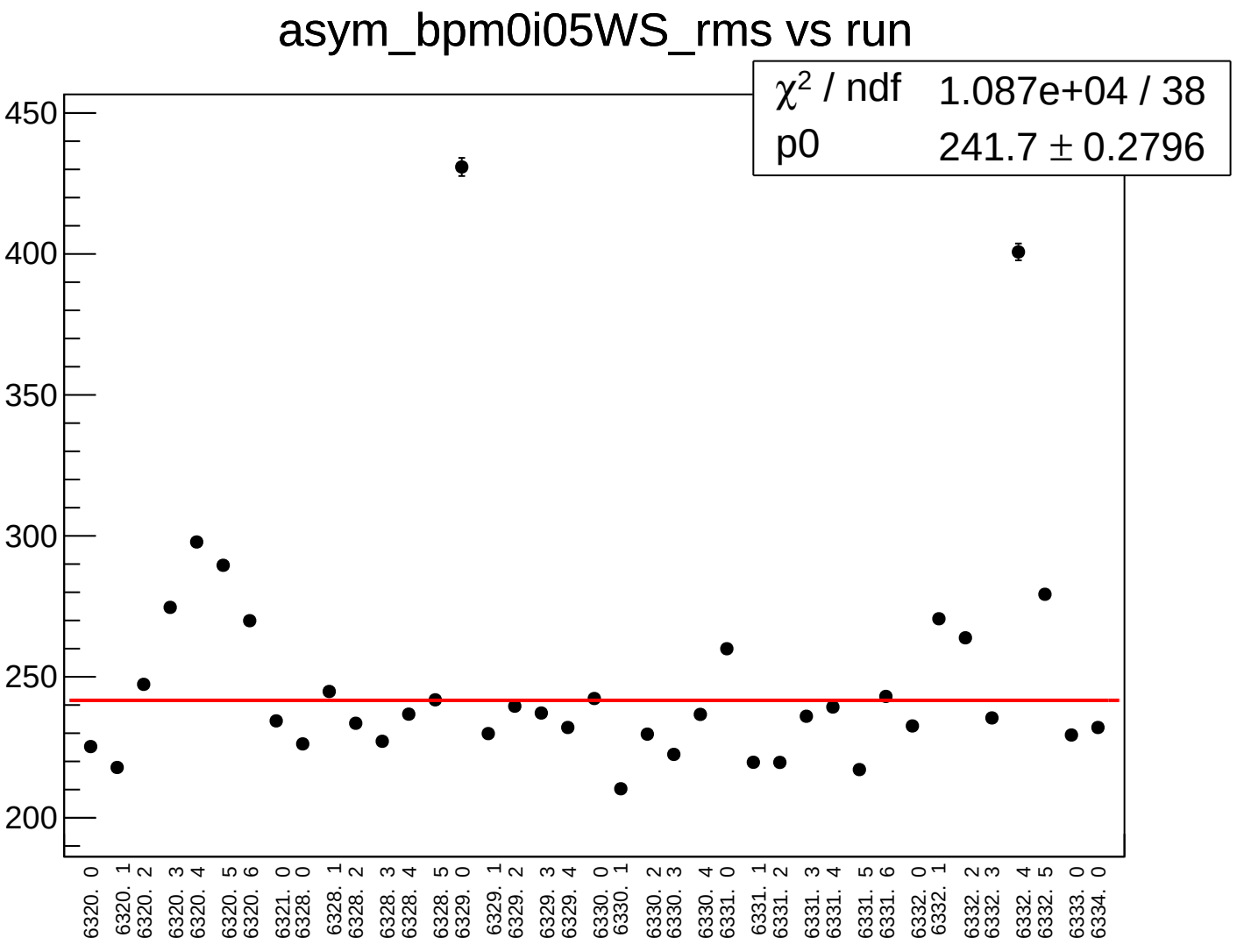

asym_bpm0i02aWS_mean vs run
χ² / ndf 787.5 / 38
p0 2112 ± 277.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

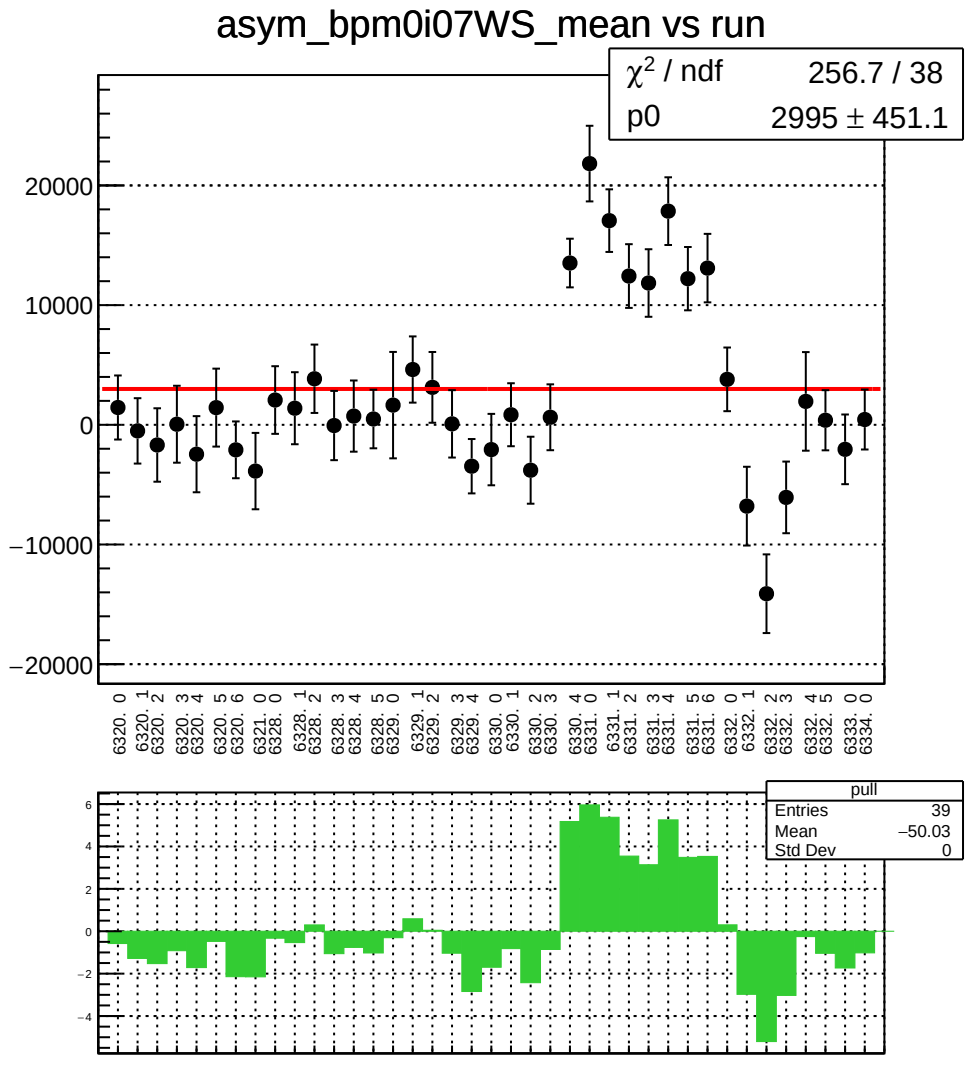

pull1D
Entries 39
Mean −0.751
Std Dev 3.277
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

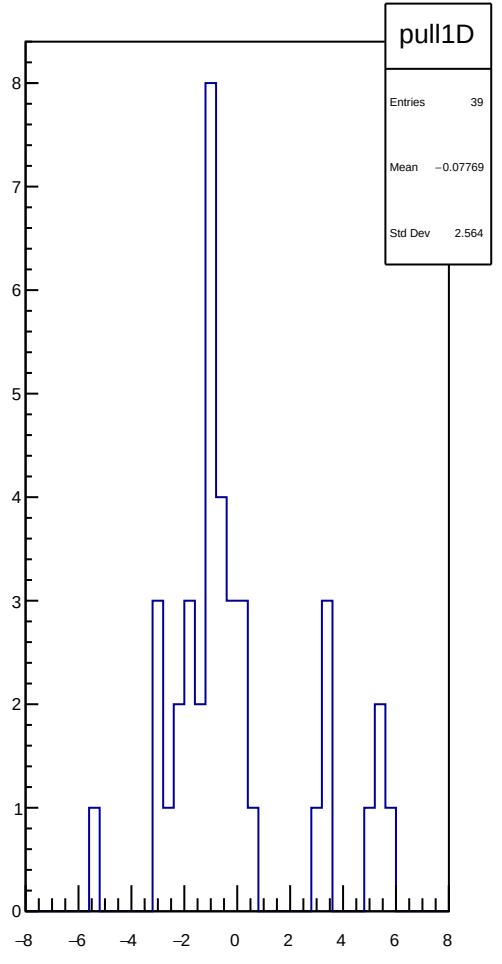

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.03e+04 / 38
p0 169.5 ± 0.196
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

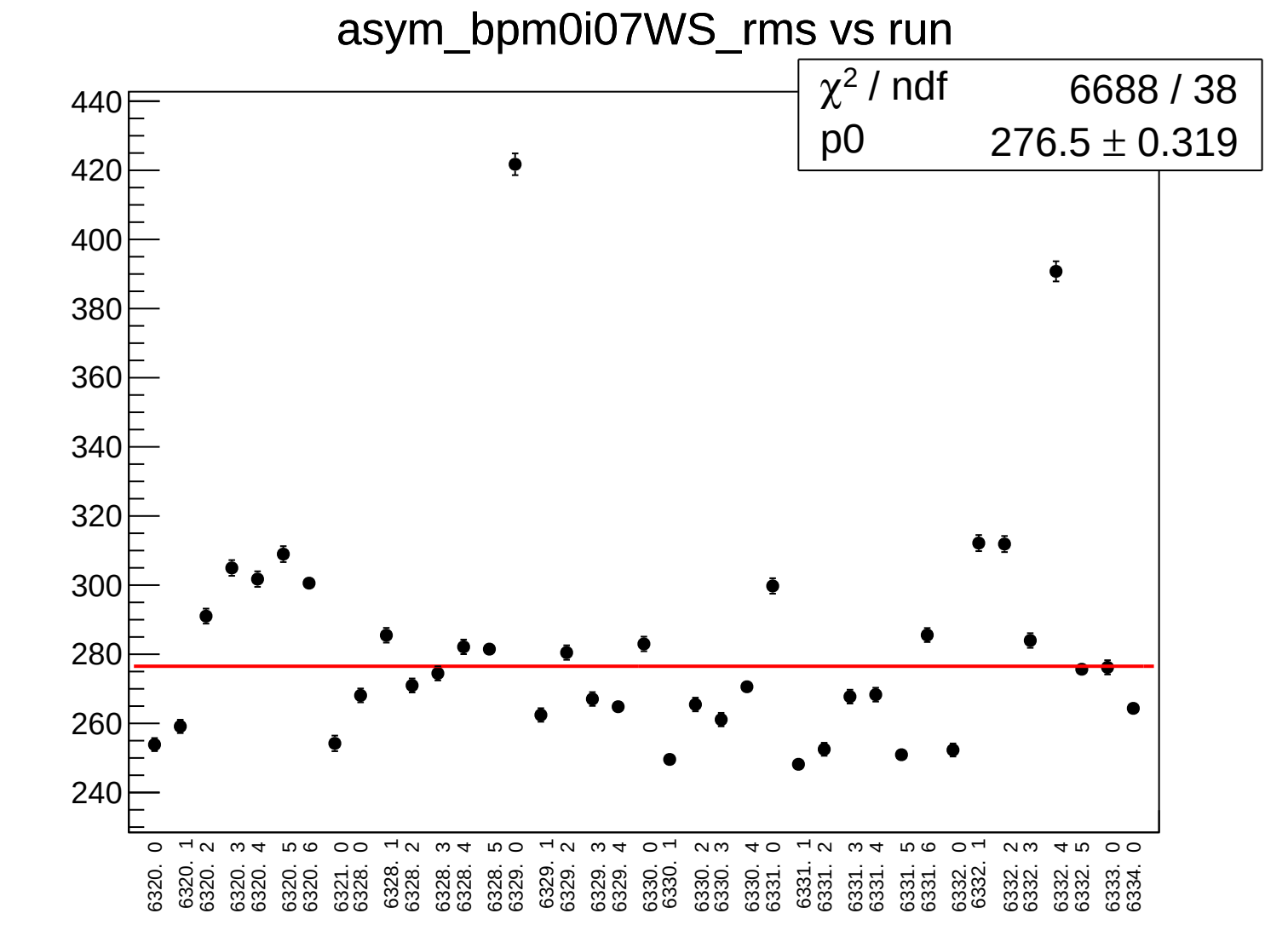

asym_bpm0i05WS_mean vs run
χ² / ndf 290.8 / 38
p0 707.1 ± 395.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −138.5
Std Dev 0
6
4
2
0
−2
−4

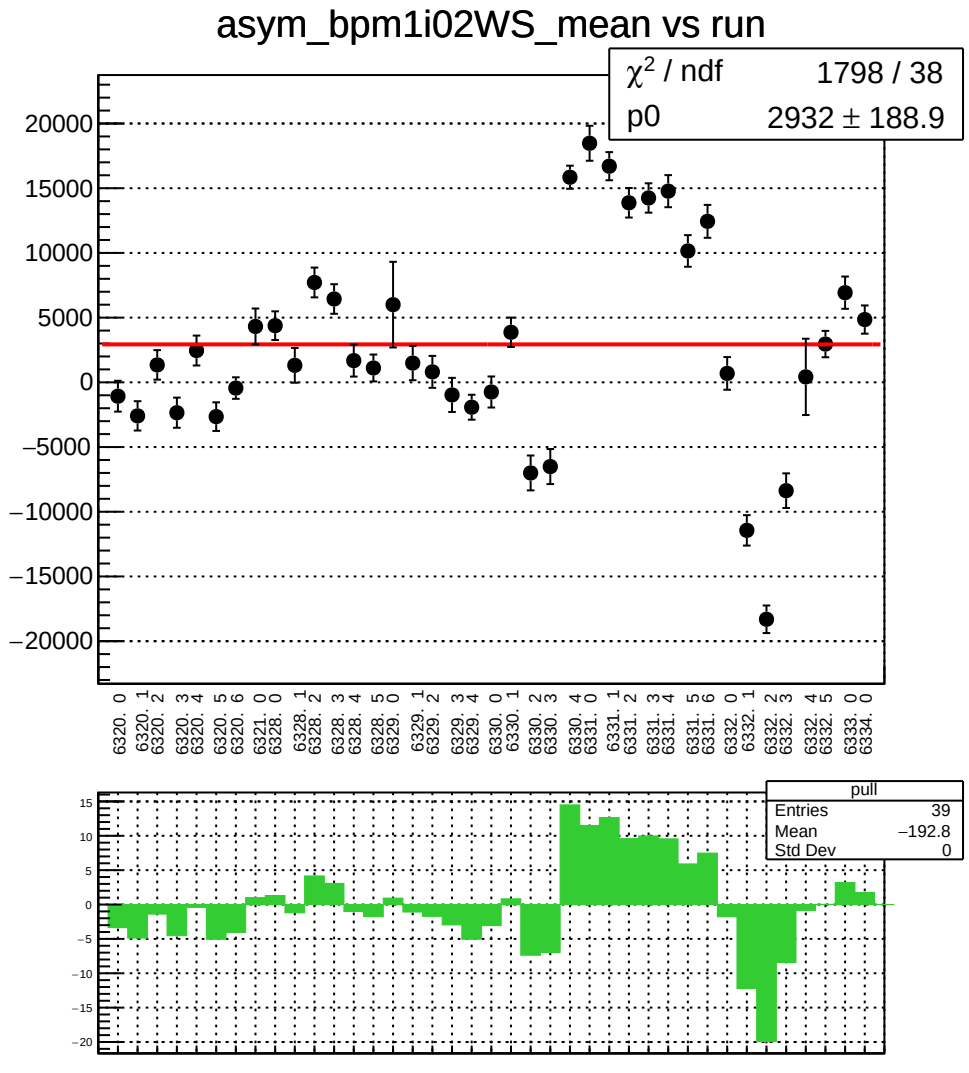

pull1D
Entries 39
Mean −0.06173
Std Dev 2.73
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

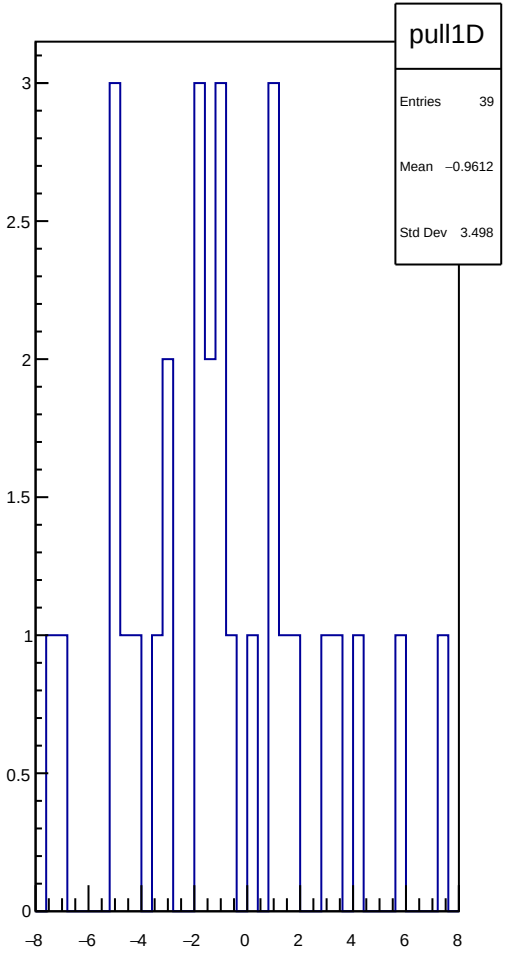

asym_bpm0i05WS_rms vs run
χ² / ndf 1.087e+04 / 38
p0 241.7 ± 0.2796
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

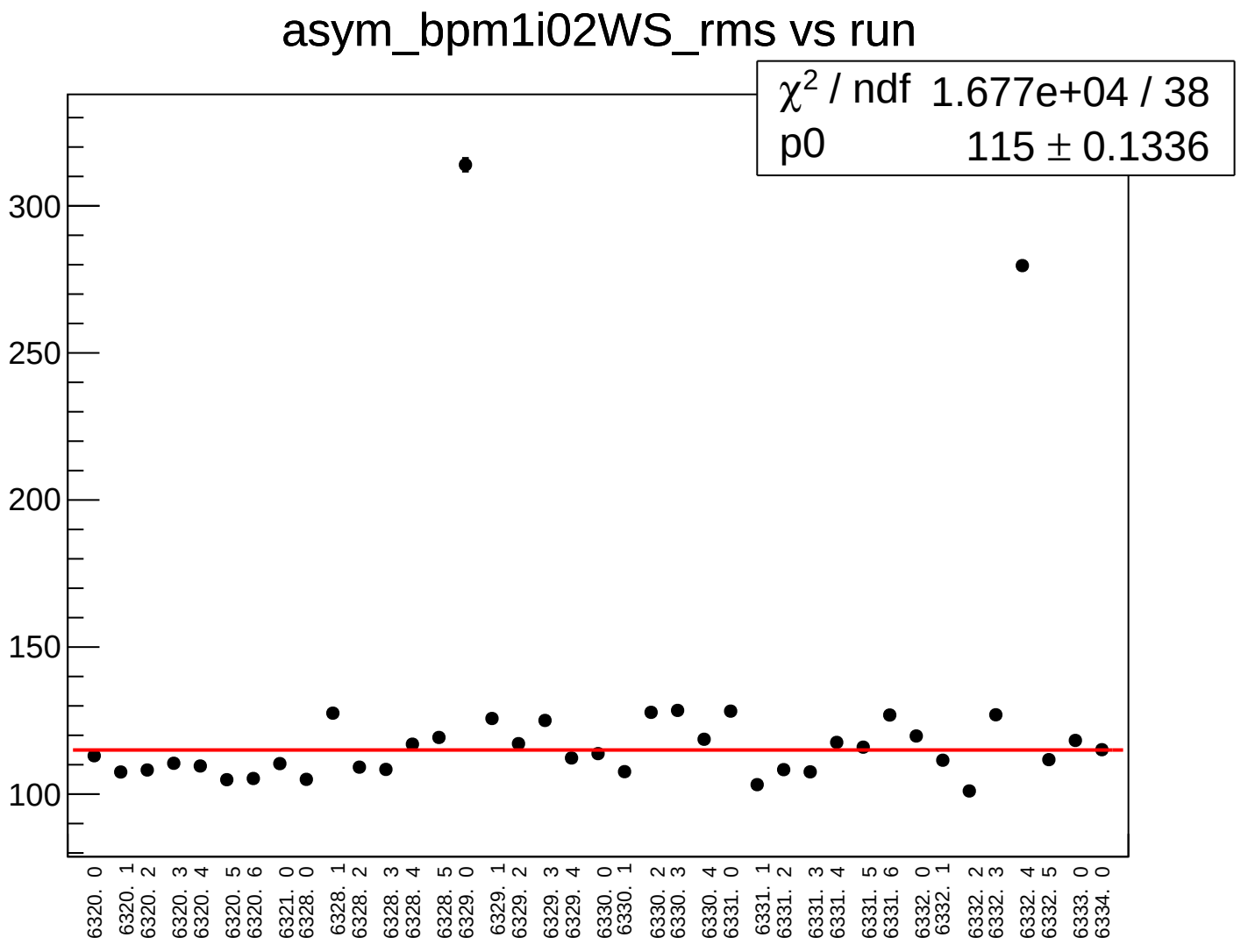

asym_bpm0i07WS_mean vs run
χ² / ndf 256.7 / 38
p0 2995 ± 451.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −50.03
Std Dev 0
6
4
2
0
−2
−4

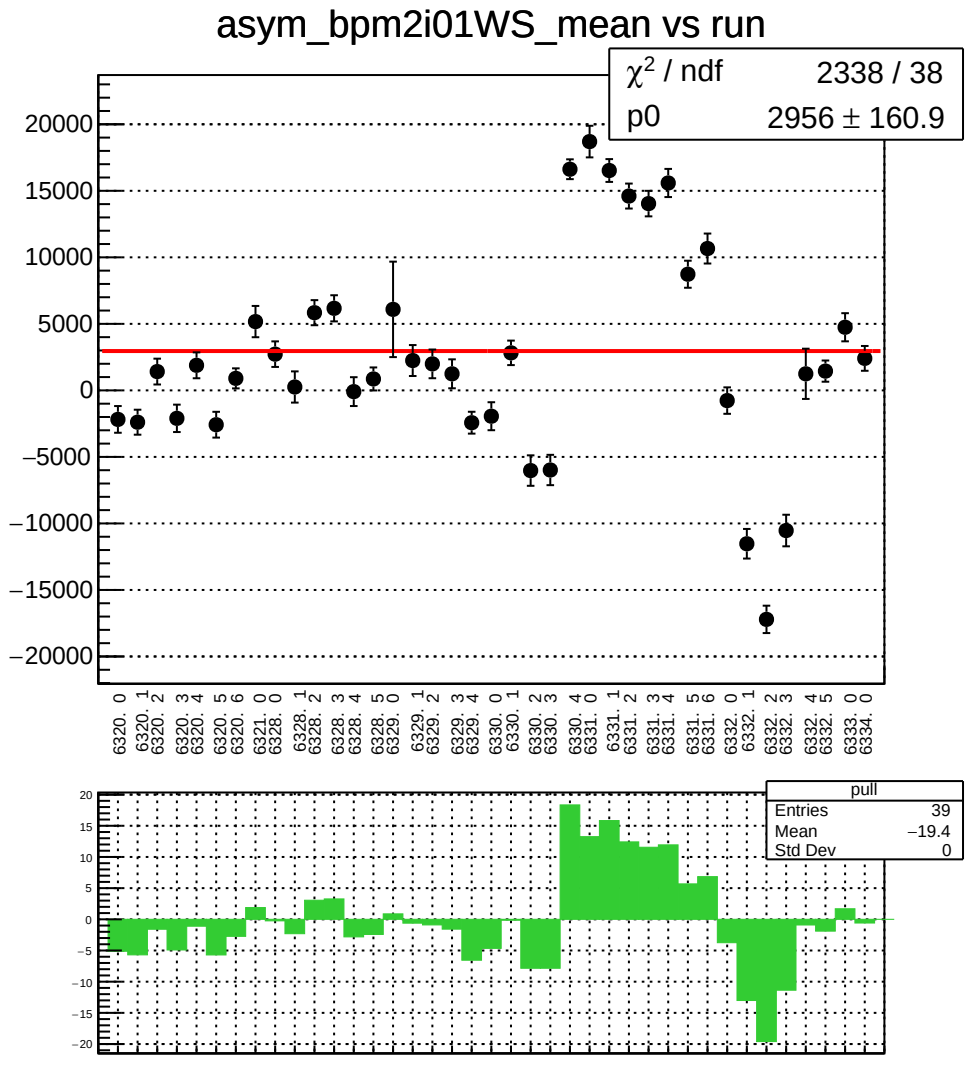

pull1D
Entries 39
Mean −0.07769
Std Dev 2.564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

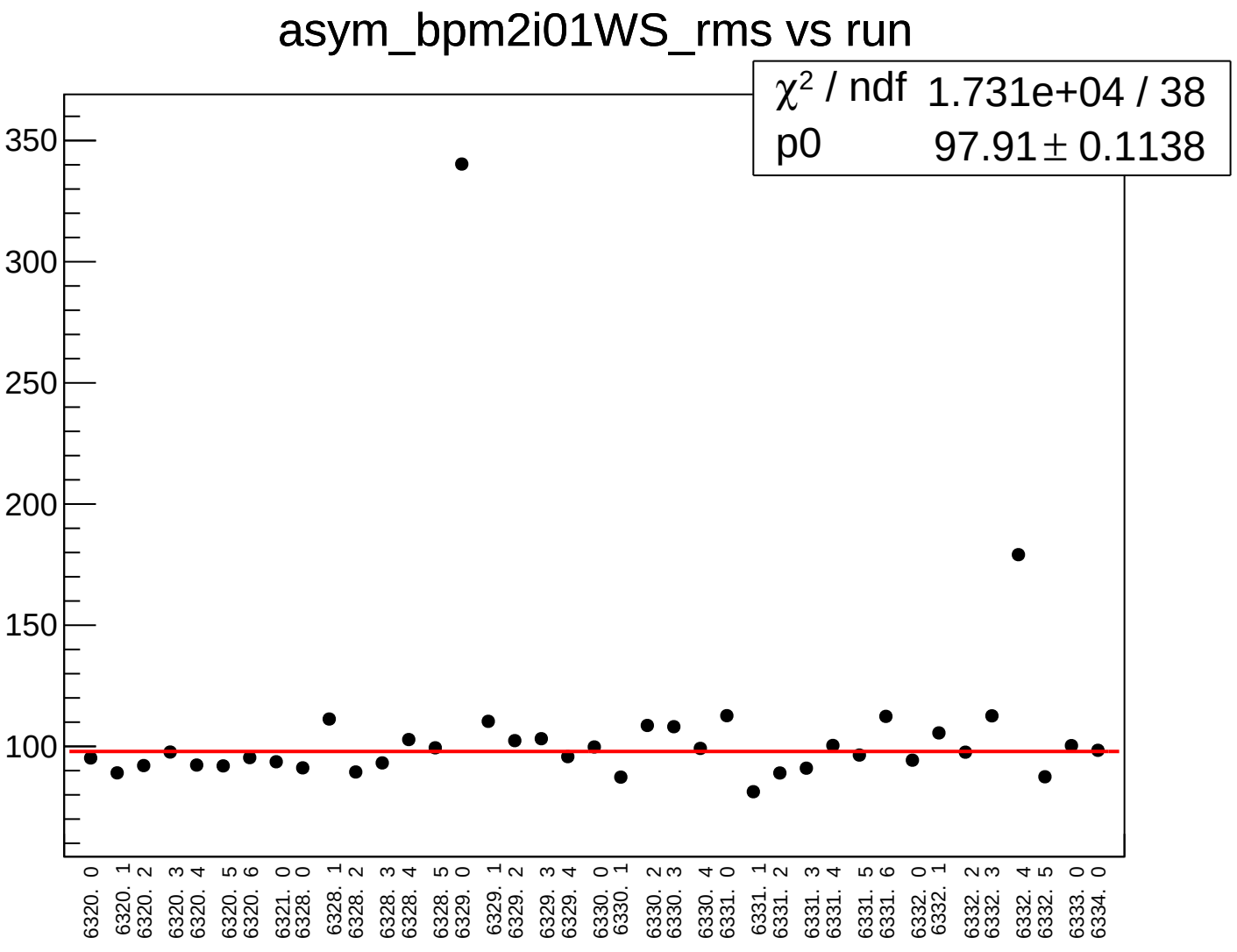

asym_bpm0i07WS_rms vs run
χ^2 / ndf 6688 / 38
p0 276.5 ± 0.319
440
420
400
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

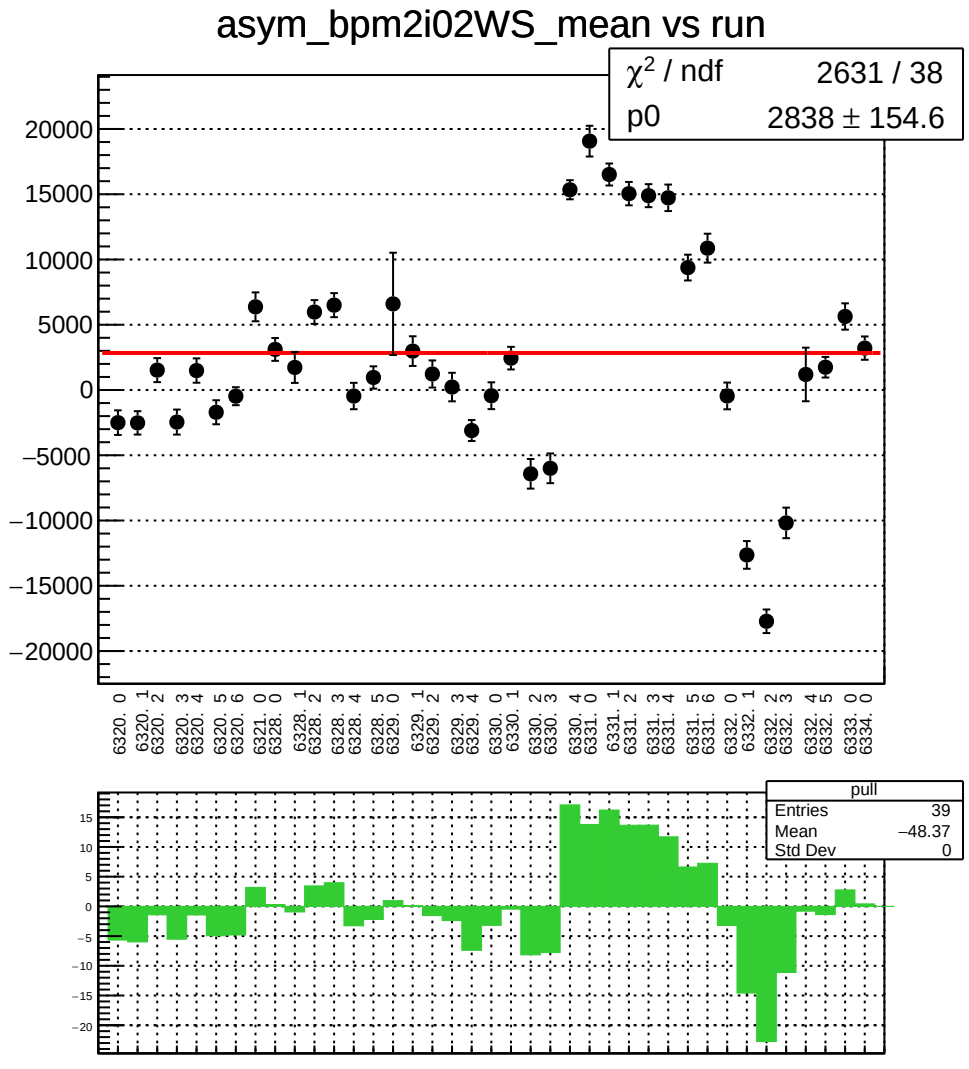

asym_bpm1i02WS_mean vs run
χ² / ndf 1798 / 38
p0 2932 ± 188.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −192.8
Std Dev 0
15
10
5
0
−5
−10
−15
−20

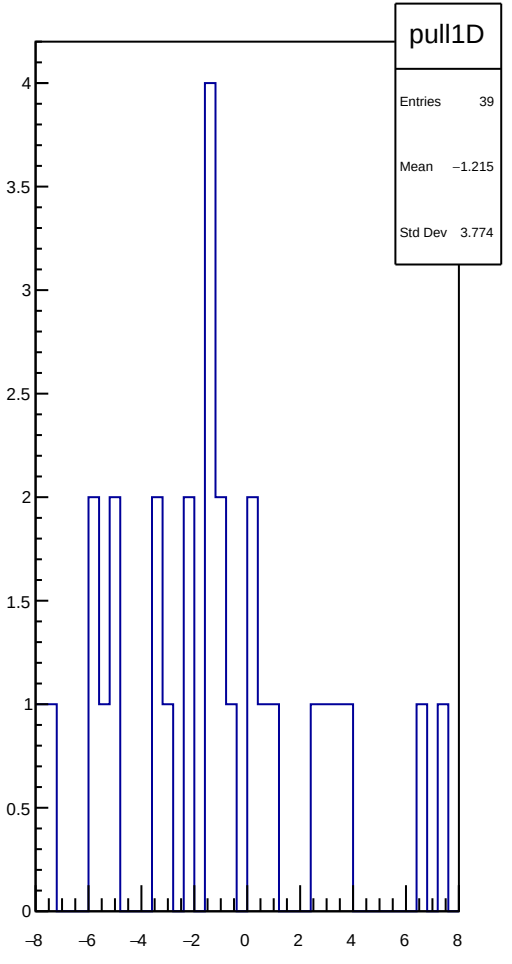

pull1D
Entries 39
Mean −0.9612
Std Dev 3.498
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

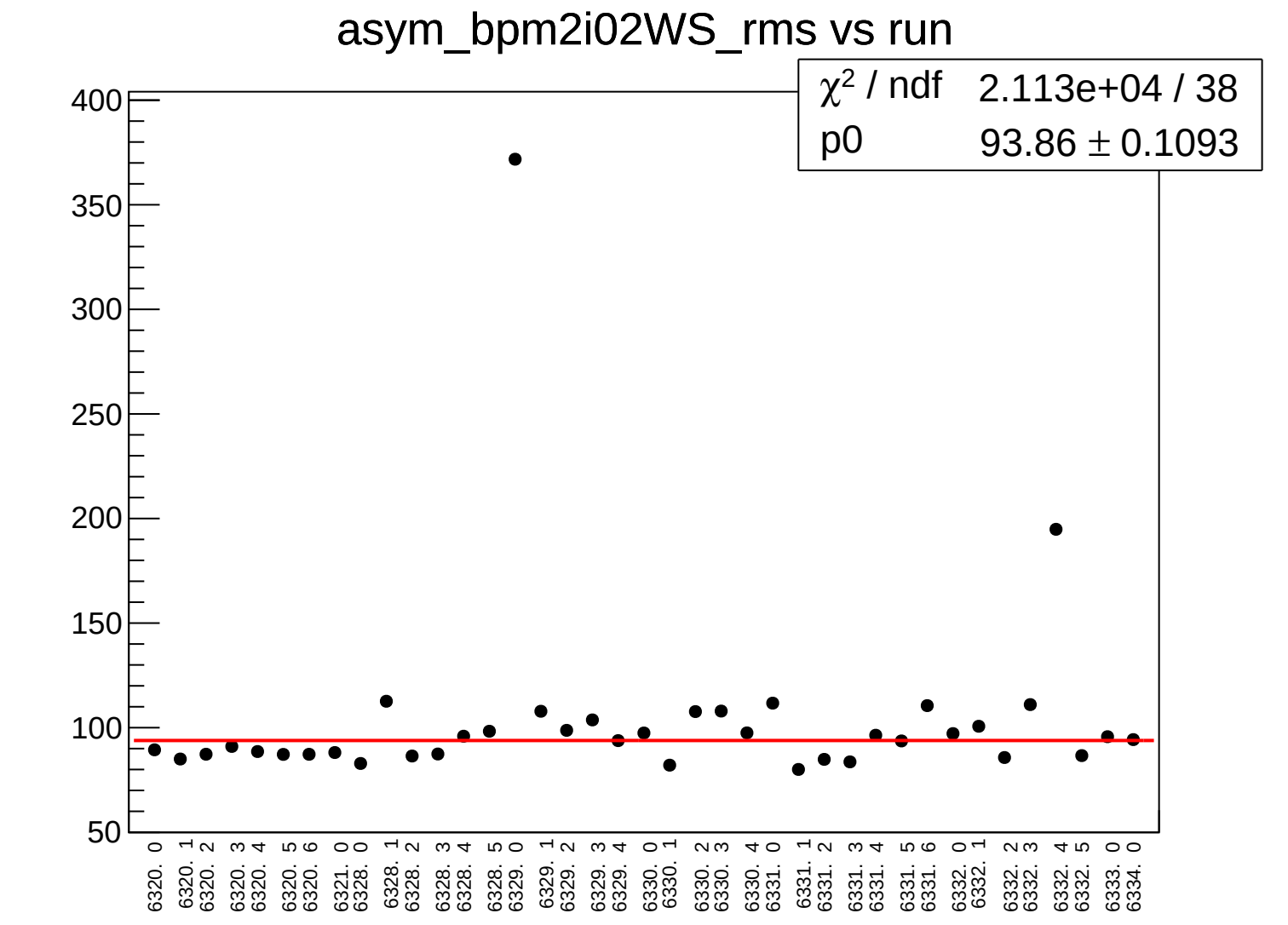

asym_bpm1i02WS_rms vs run
χ² / ndf 1.677e+04 / 38
p0 115 ± 0.1336
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

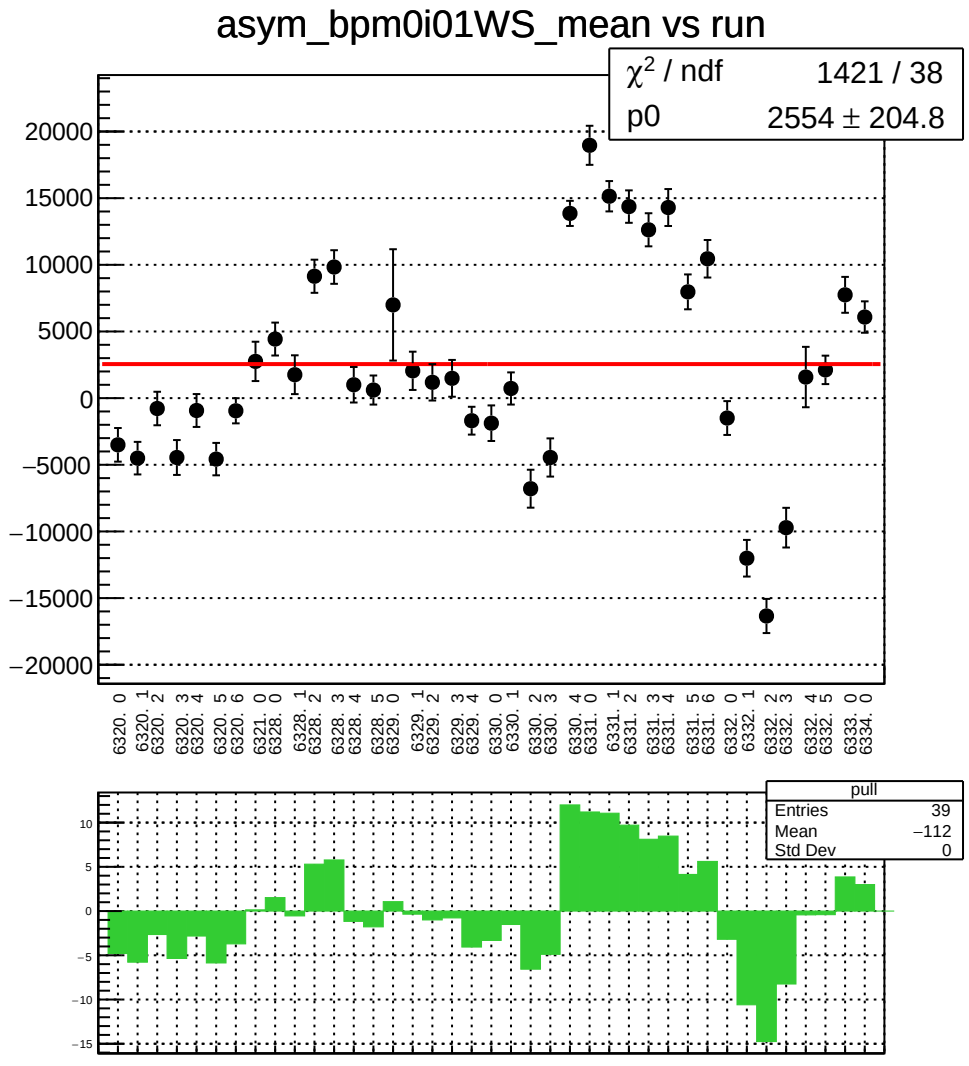

asym_bpm2i01WS_mean vs run
χ² / ndf 2338 / 38
p0 2956 ± 160.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.4
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20
pull1D
Entries 39
Mean −1.62
Std Dev 3.575
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

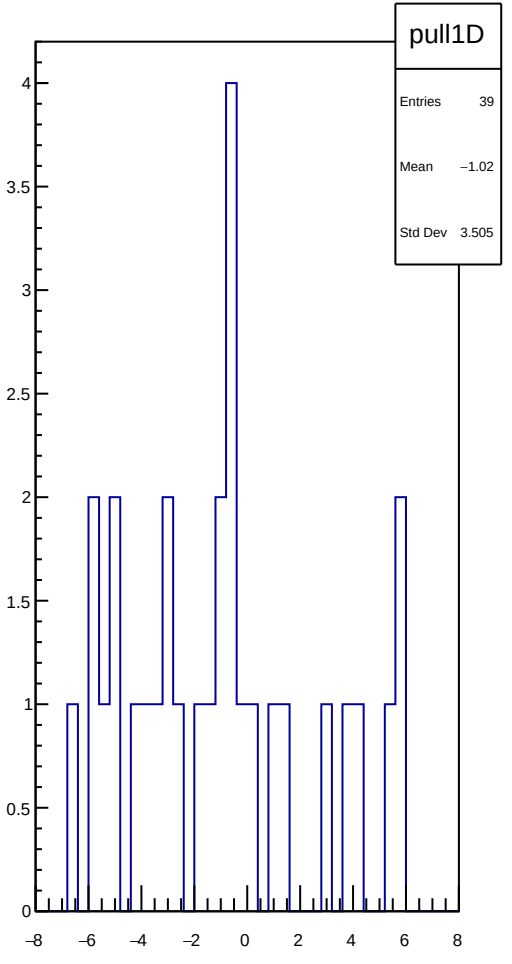

asym_bpm2i01WS_rms vs run
χ² / ndf 1.731e+04 / 38
p0 97.91 ± 0.1138
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

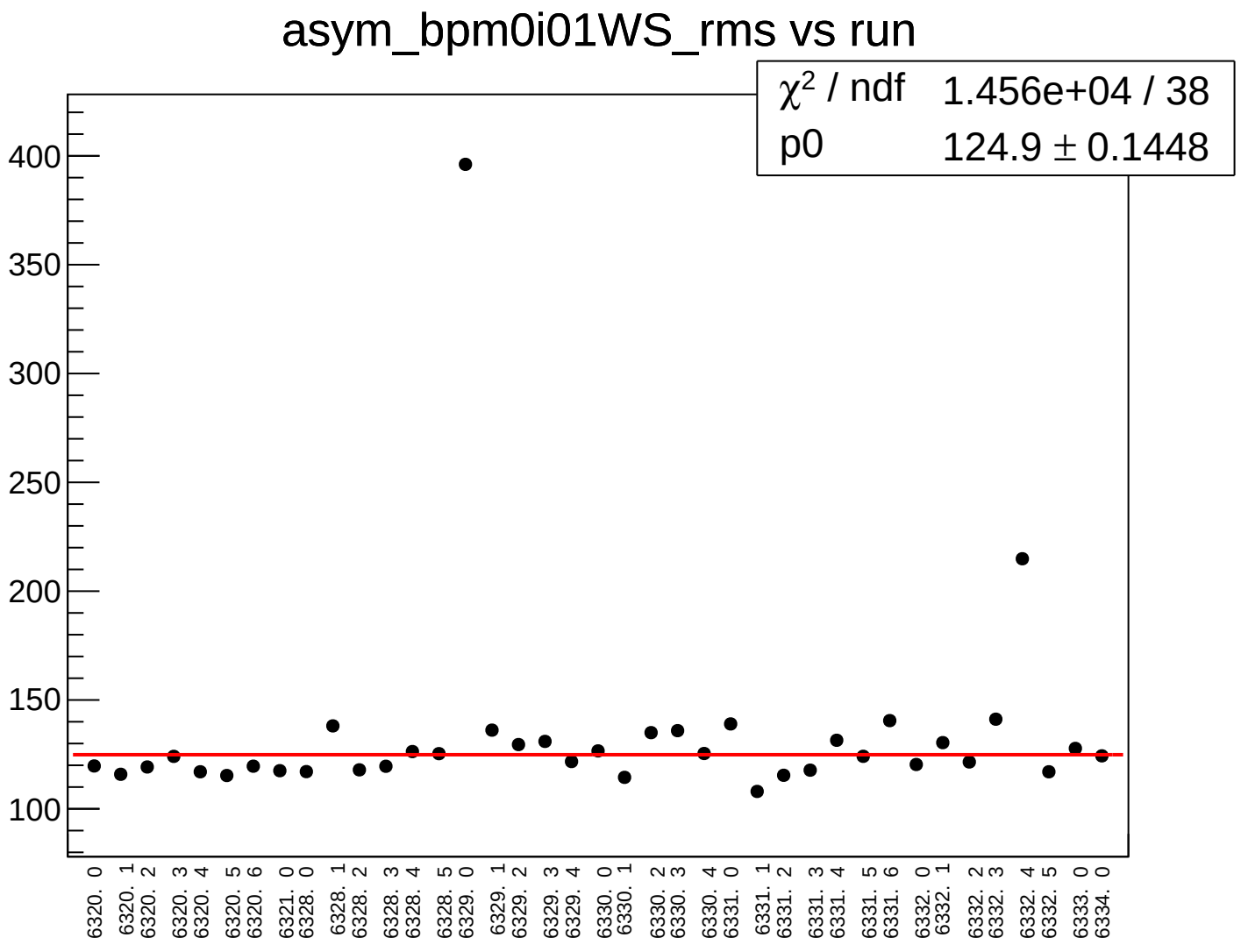

asym_bpm2i02WS_mean vs run
χ² / ndf 2631 / 38
p0 2838 ± 154.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −48.37
Std Dev 0
15
10
5
0
−5
−10
−15
−20

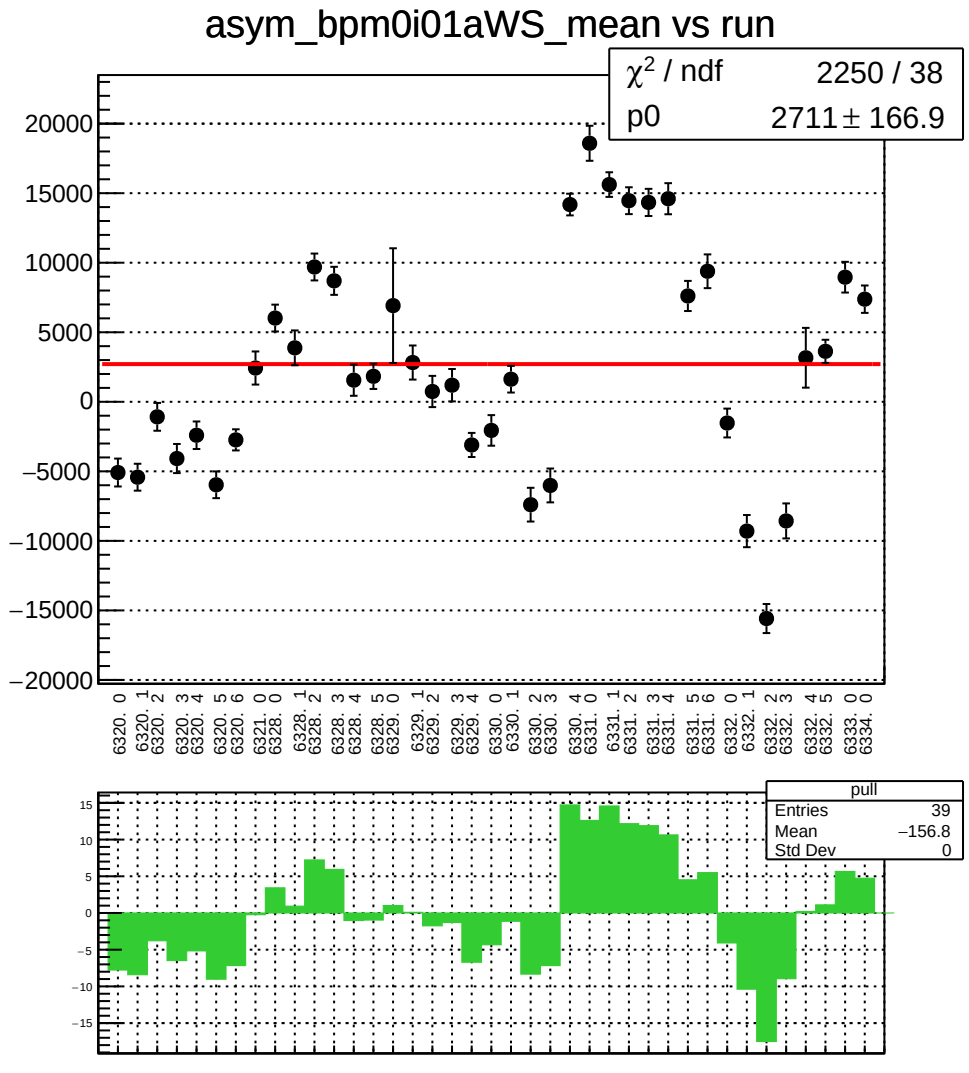

pull1D
Entries 39
Mean −1.215
Std Dev 3.774
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

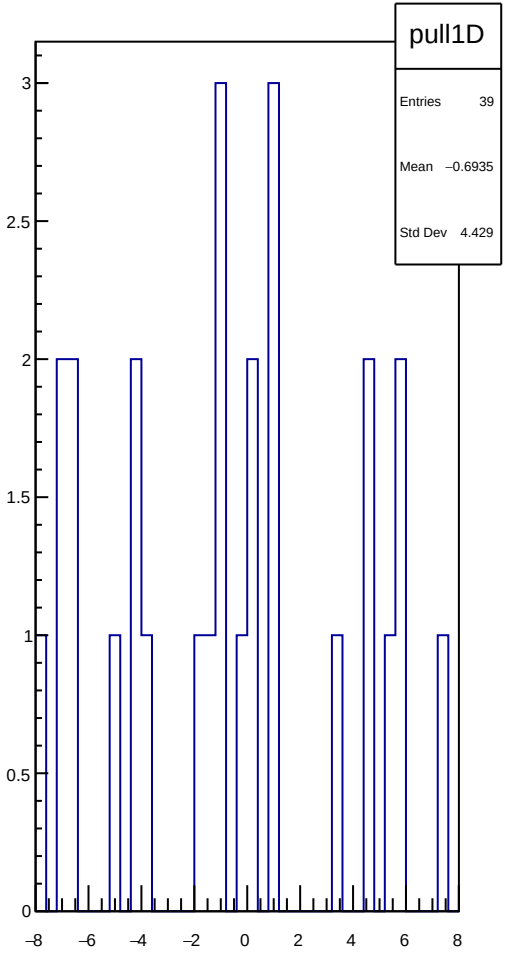

asym_bpm2i02WS_rms vs run
χ² / ndf 2.113e+04 / 38
p0 93.86 ± 0.1093
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

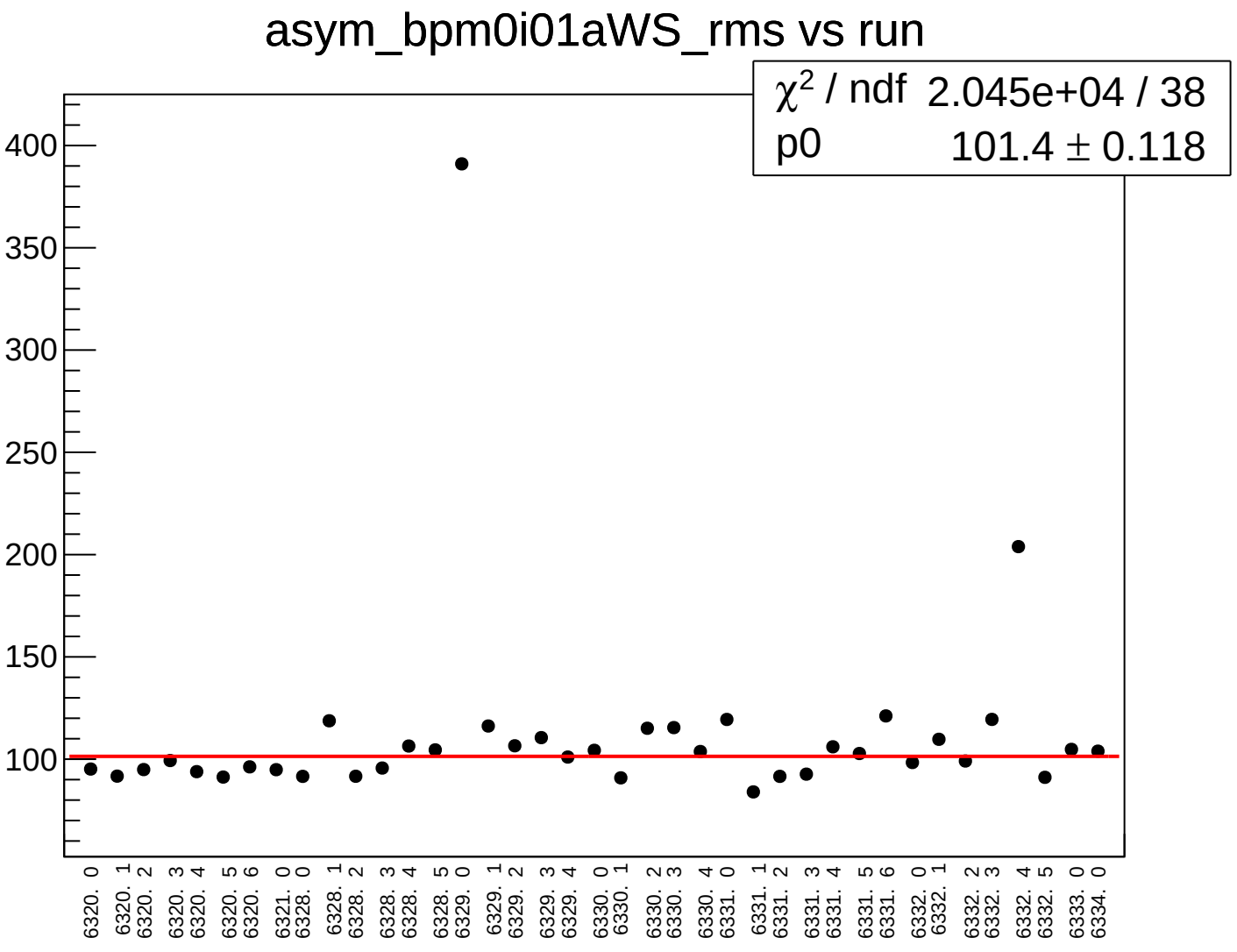

asym_bpm0i01WS_mean vs run
χ² / ndf 1421 / 38
p0 2554 ± 204.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −112
Std Dev 0
10
5
0
−5
−10
−15

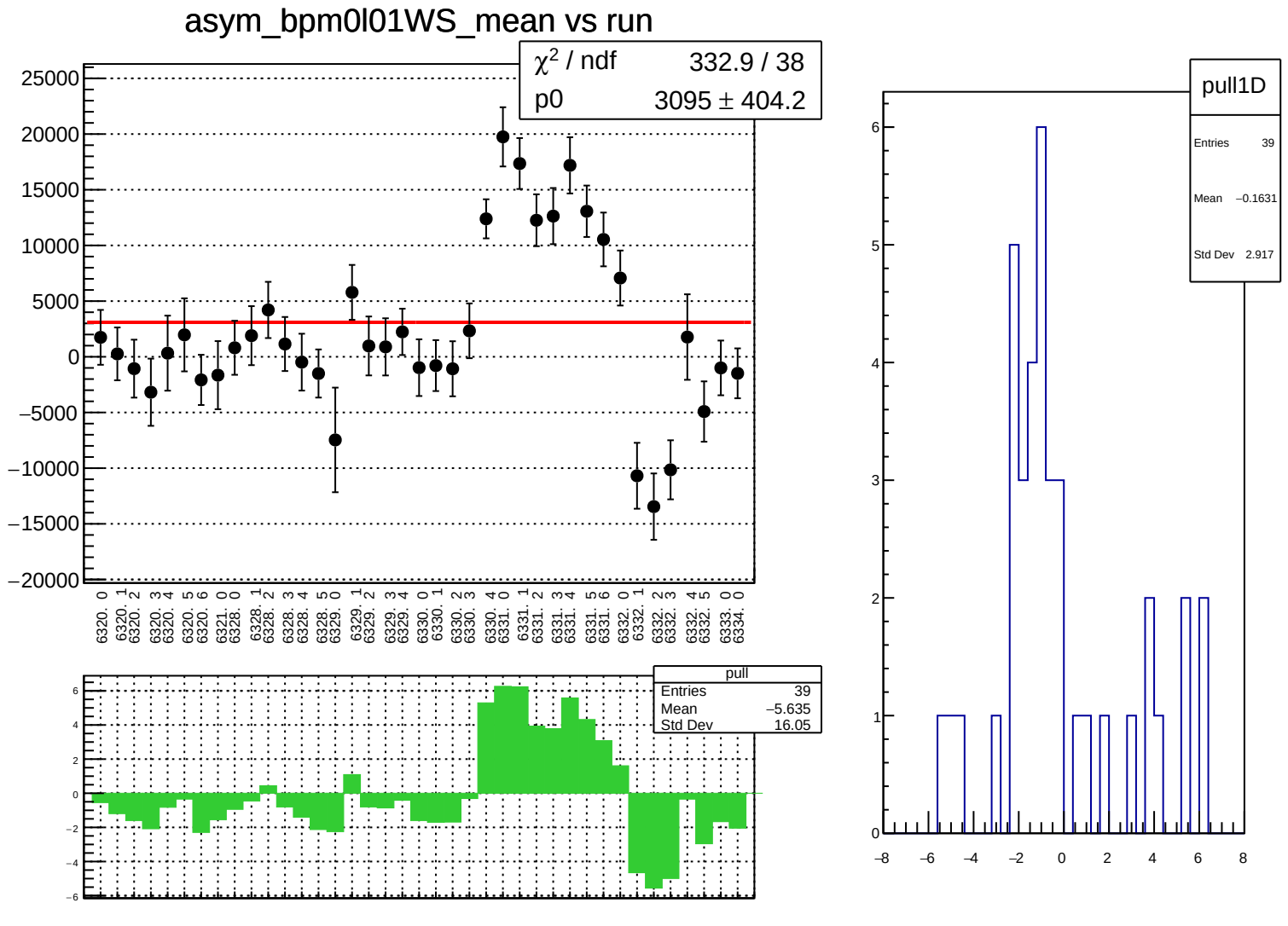

pull1D
Entries 39
Mean −1.02
Std Dev 3.505
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

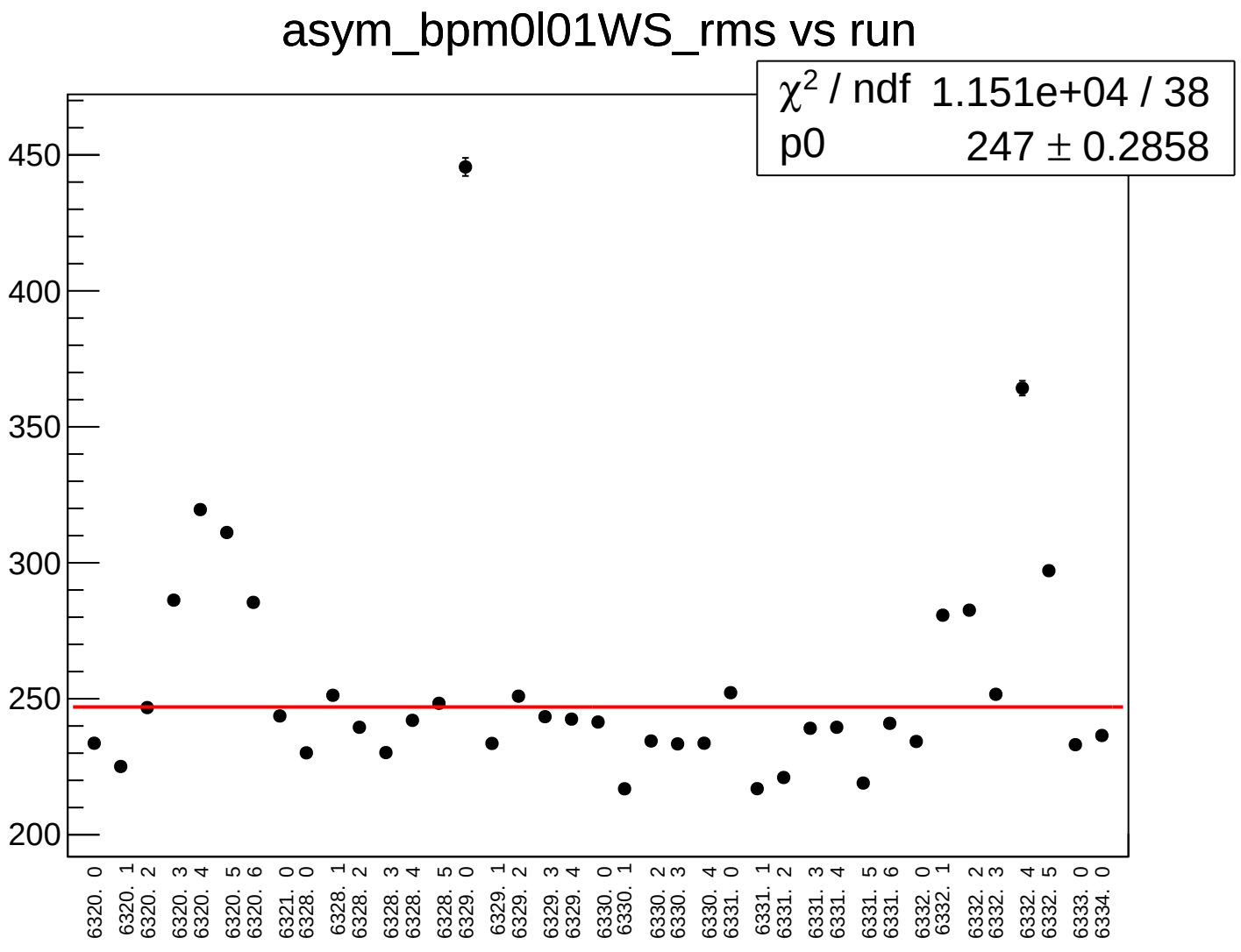

asym_bpm0i01WS_rms vs run
χ² / ndf 1.456e+04 / 38
p0 124.9 ± 0.1448
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

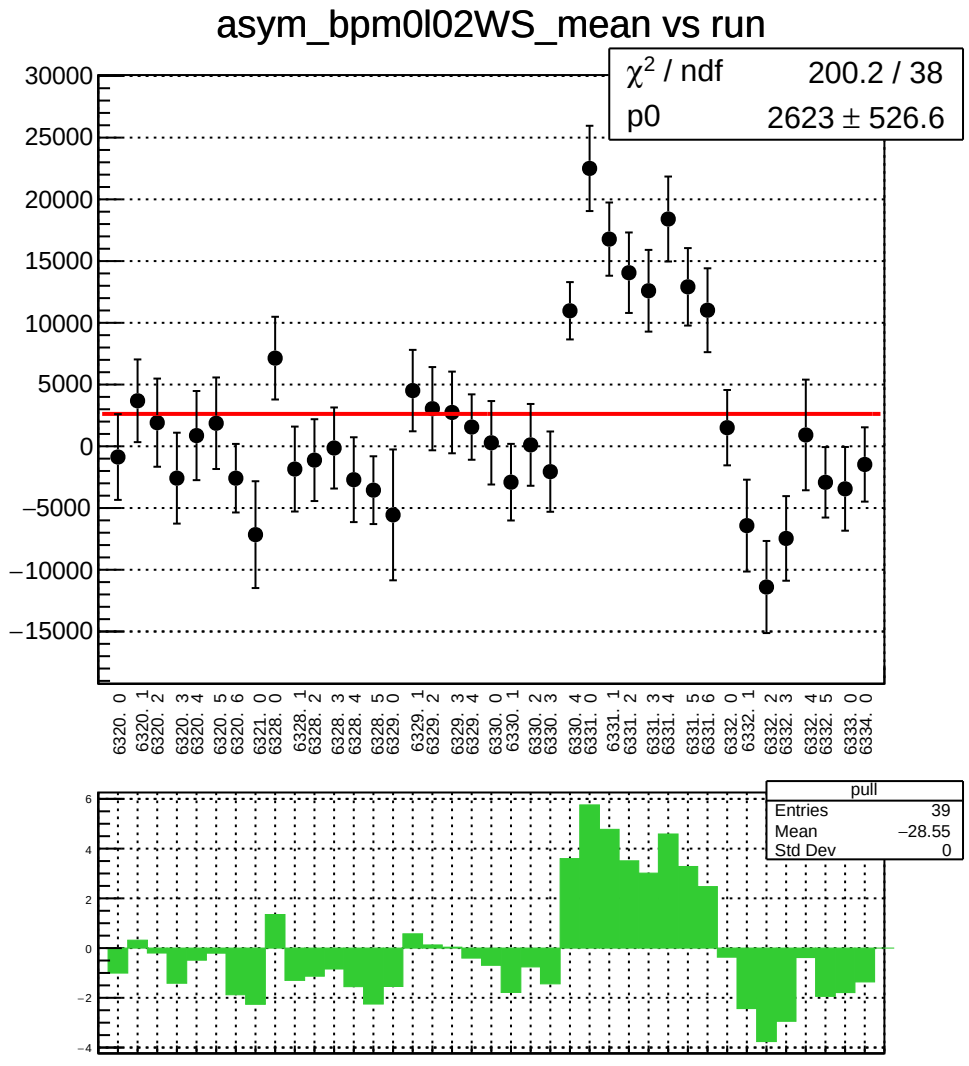

asym_bpm0i01aWS_mean vs run
χ² / ndf 2250 / 38
p0 2711 ± 166.9
pull
Entries 39
Mean −156.8
Std Dev 0

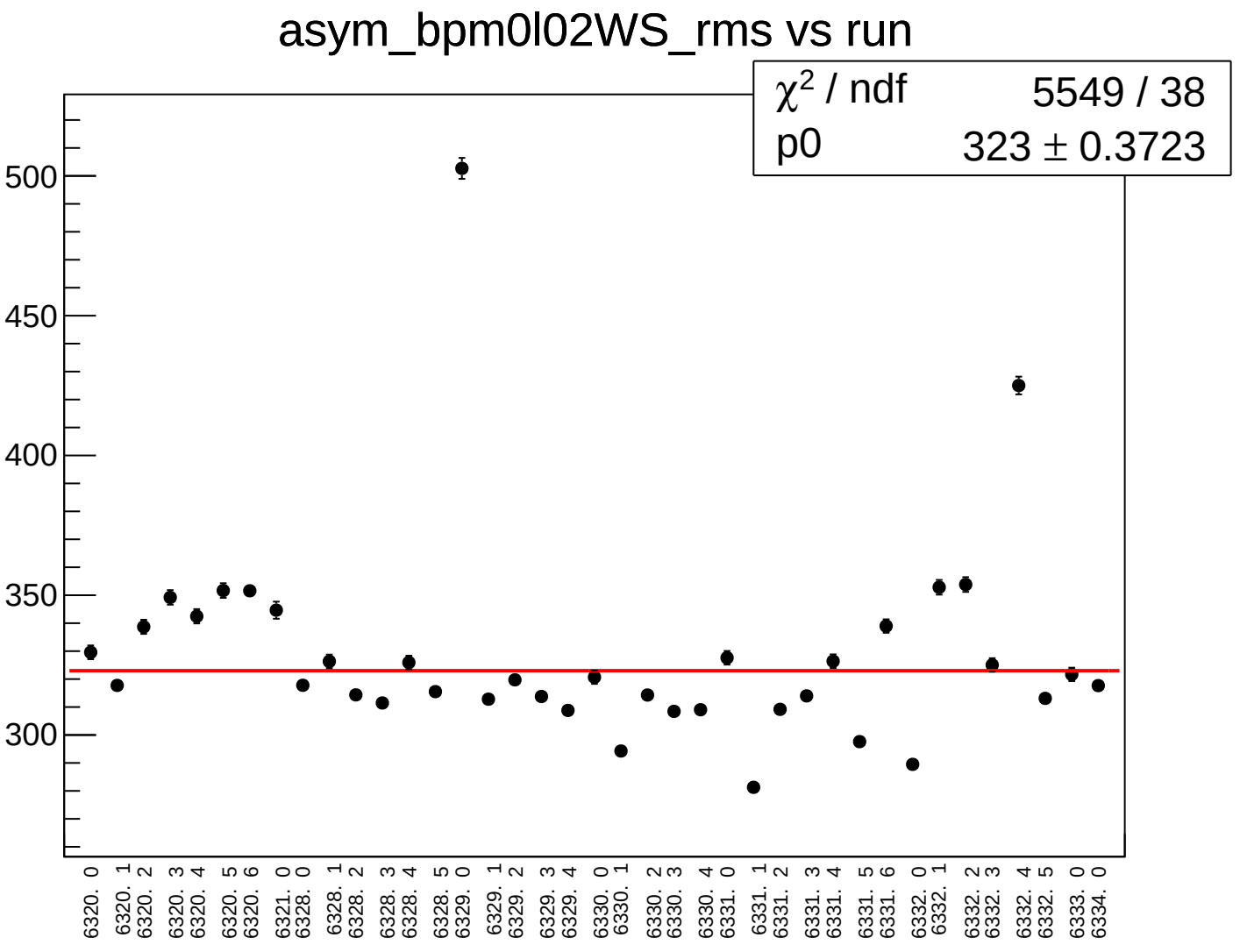

pull1D
Entries 39
Mean −0.6935
Std Dev 4.429

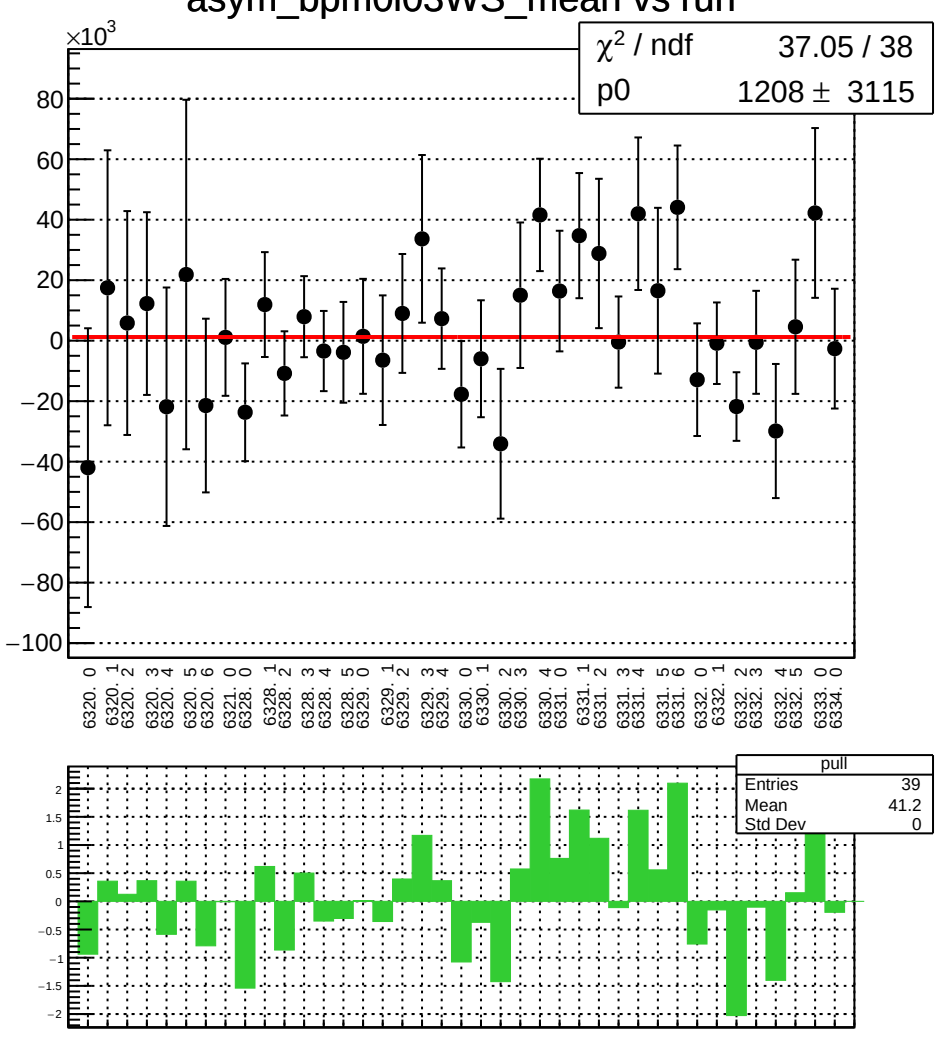

asym_bpm0i01aWS_rms vs run
χ² / ndf 2.045e+04 / 38
p0 101.4 ± 0.118
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

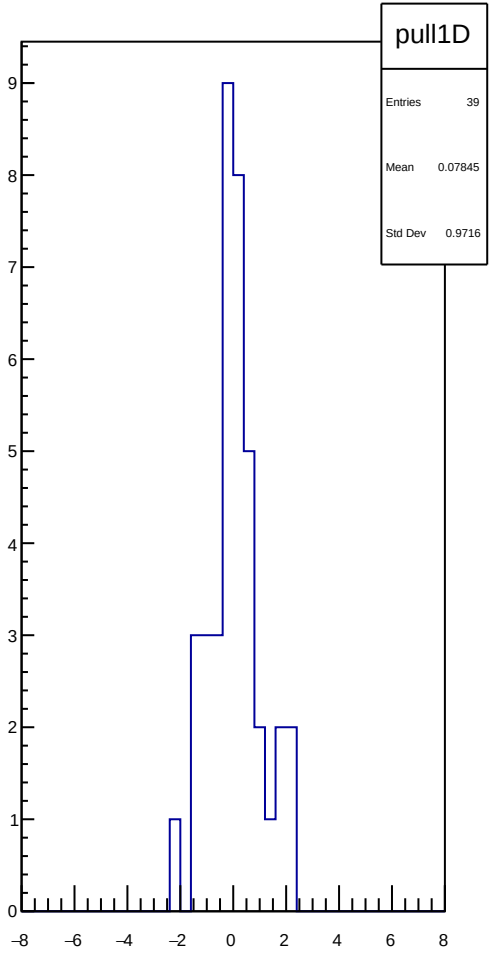

asym_bpm0l01WS_mean vs run
χ² / ndf 332.9 / 38
p0 3095 ± 404.2
pull
Entries 39
Mean −5.635
Std Dev 16.05
pull1D
Entries 39
Mean −0.1631
Std Dev 2.917

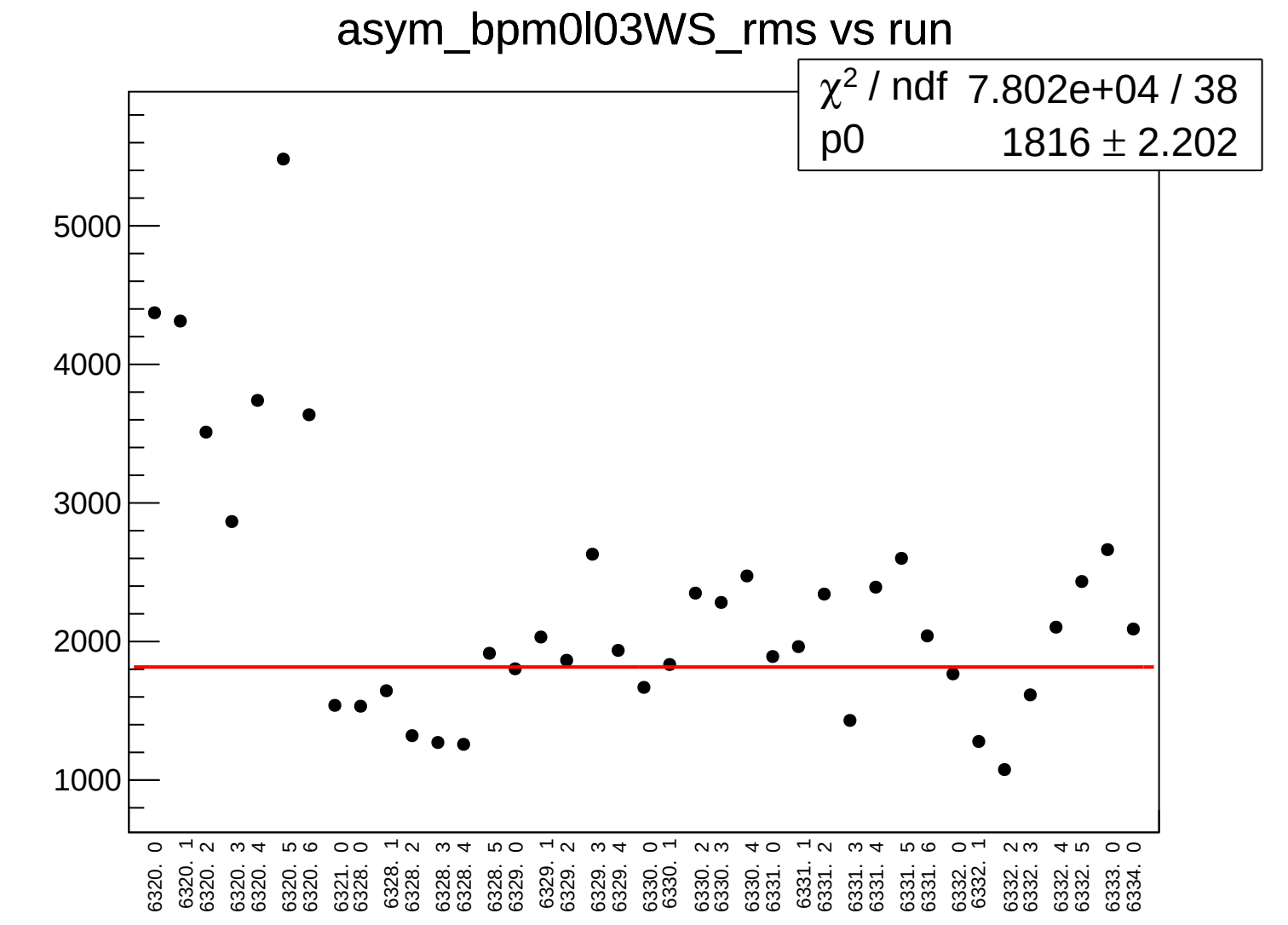

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.151e+04 / 38
p0 247 ± 0.2858
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

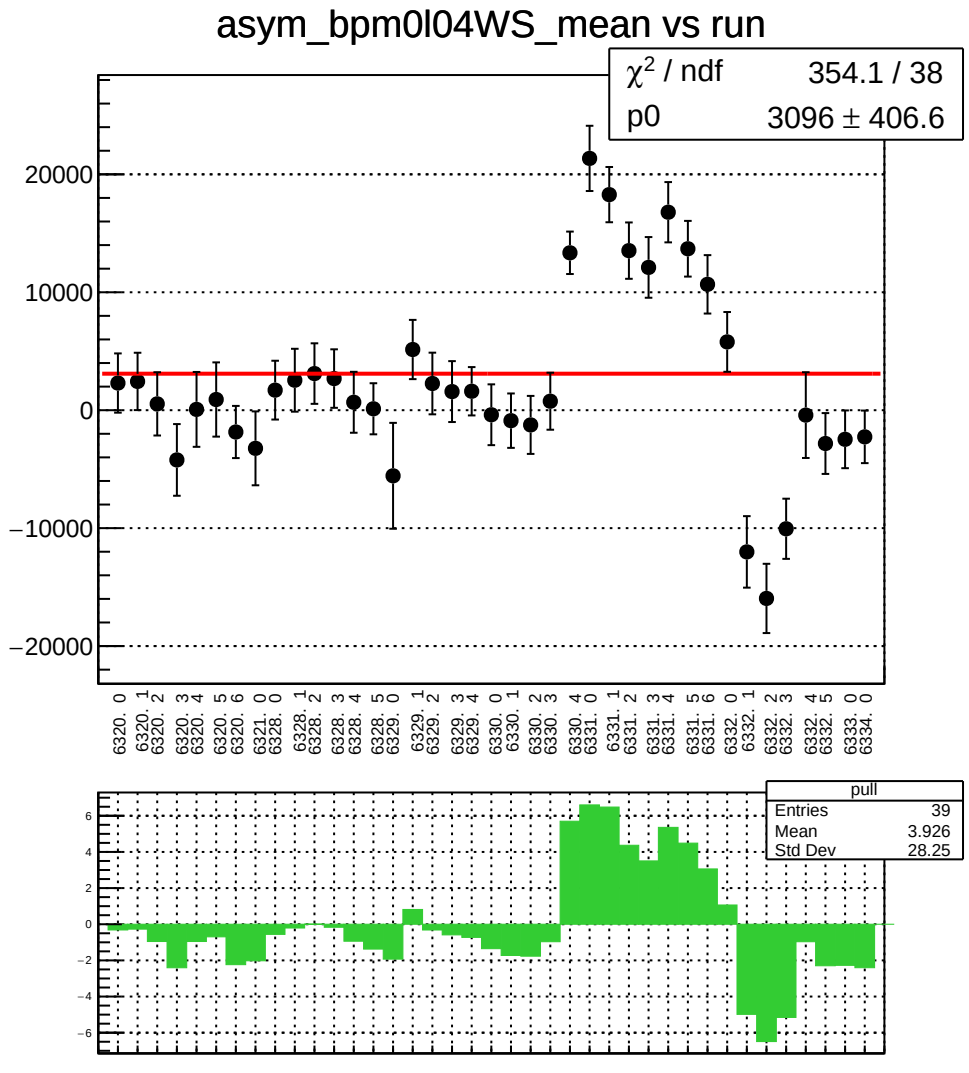

asym_bpm0l02WS_mean vs run
χ² / ndf 200.2 / 38
p0 2623 ± 526.6
30000
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.55
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 39
Mean −0.0694
Std Dev 2.265
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

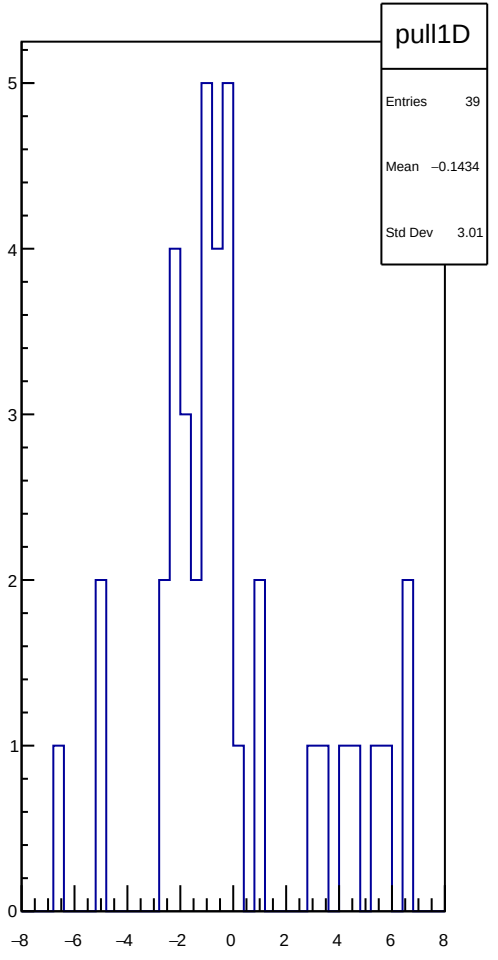

asym_bpm0l02WS_rms vs run
χ² / ndf 5549 / 38
p0 323 ± 0.3723
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

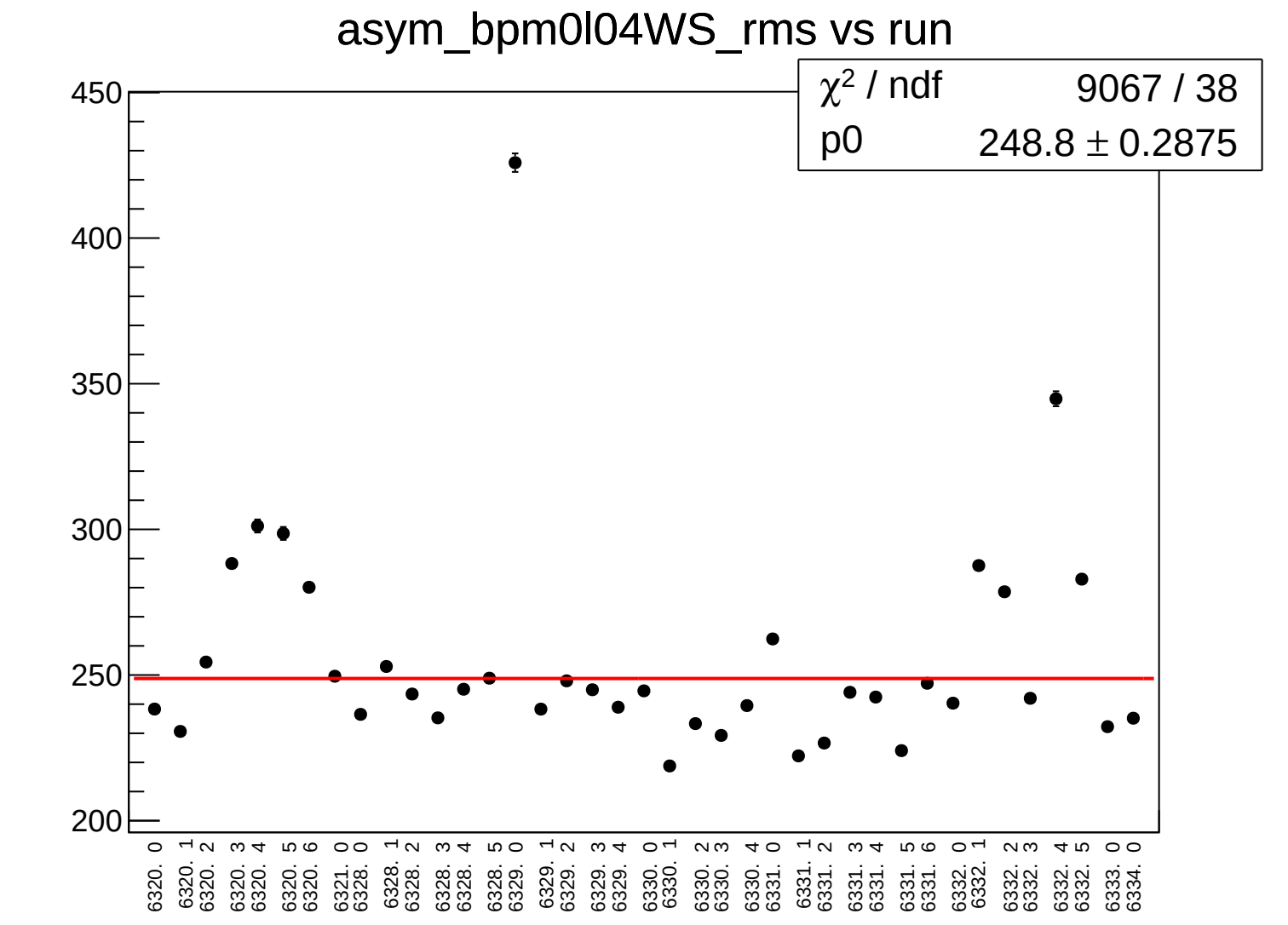

asym_bpm0l03WS_mean vs run
χ² / ndf 37.05 / 38
p0 1208 ± 3115
×10³
pull
Entries 39
Mean 41.2
Std Dev 0

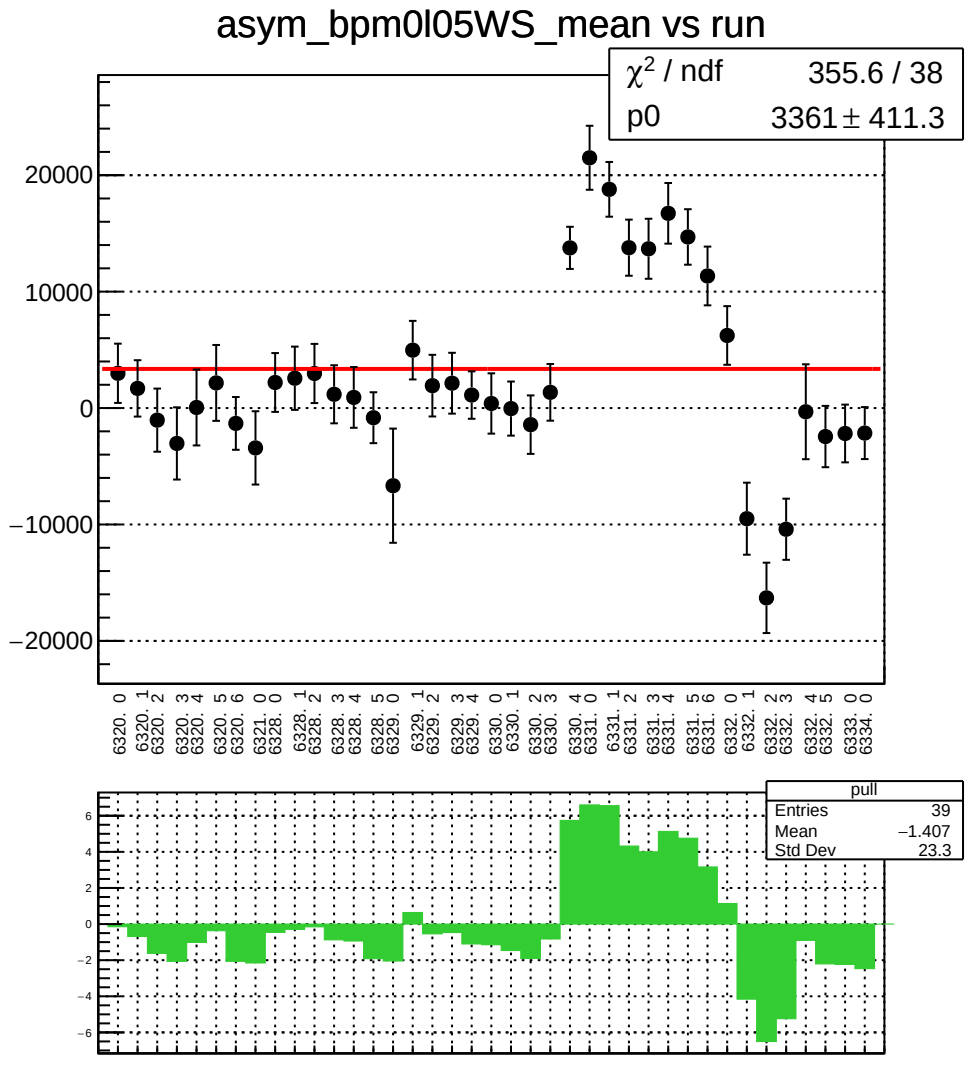

pull1D
Entries 39
Mean 0.07845
Std Dev 0.9716

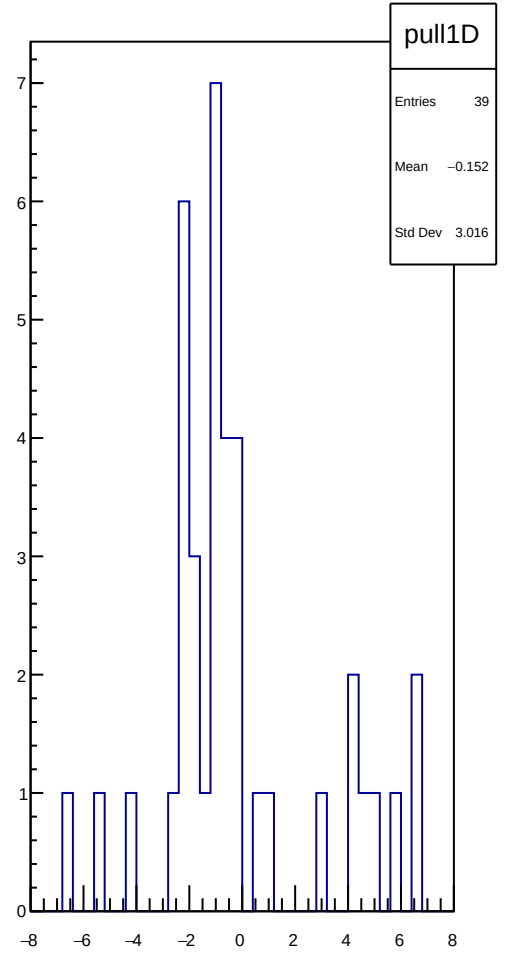

asym_bpm0l03WS_rms vs run
χ² / ndf 7.802e+04 / 38
p0 1816 ± 2.202
5000
4000
3000
2000
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

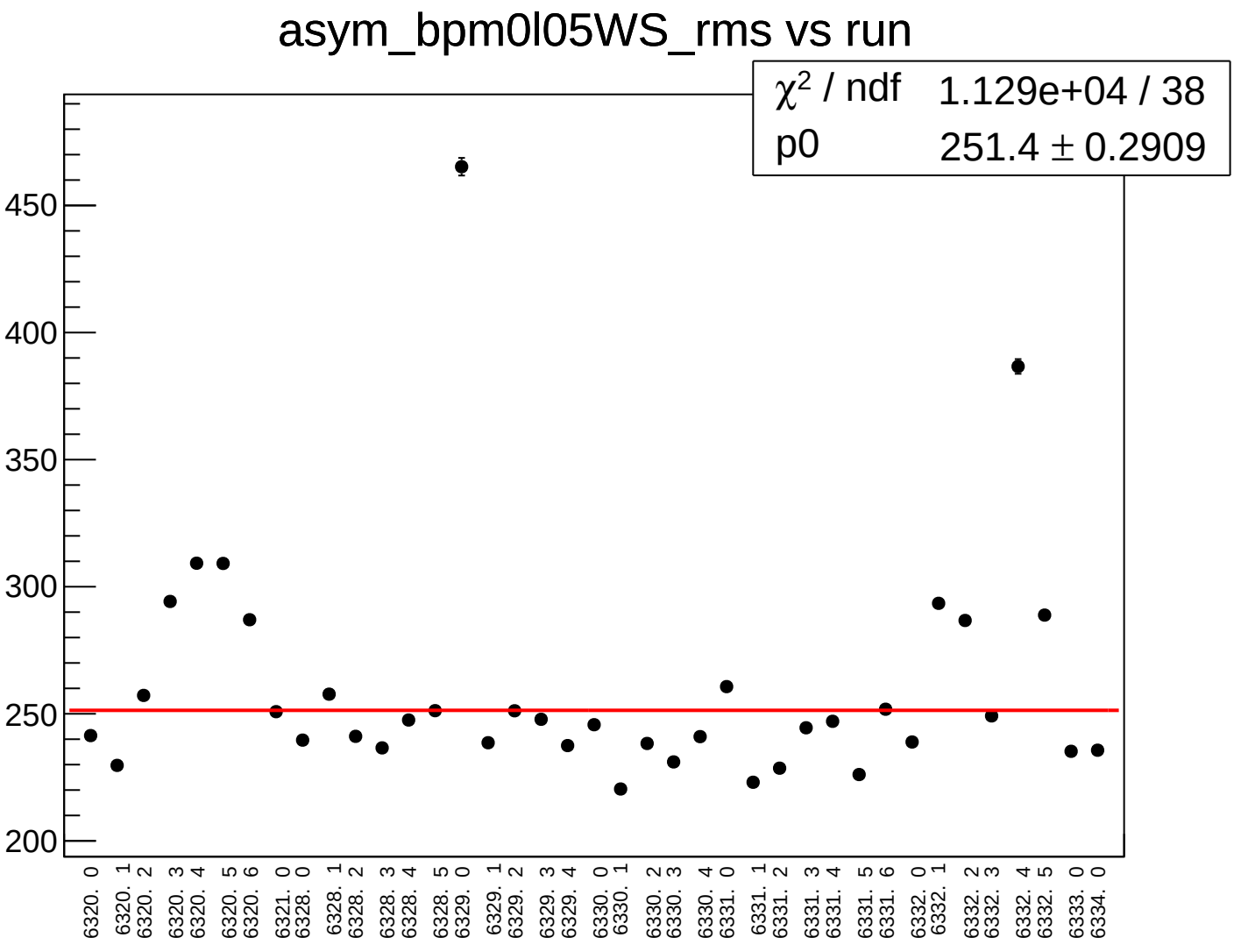

asym_bpm0l04WS_mean vs run
χ² / ndf 354.1 / 38
p0 3096 ± 406.6
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.926
Std Dev 28.25
6
4
2
0
−2
−4
−6

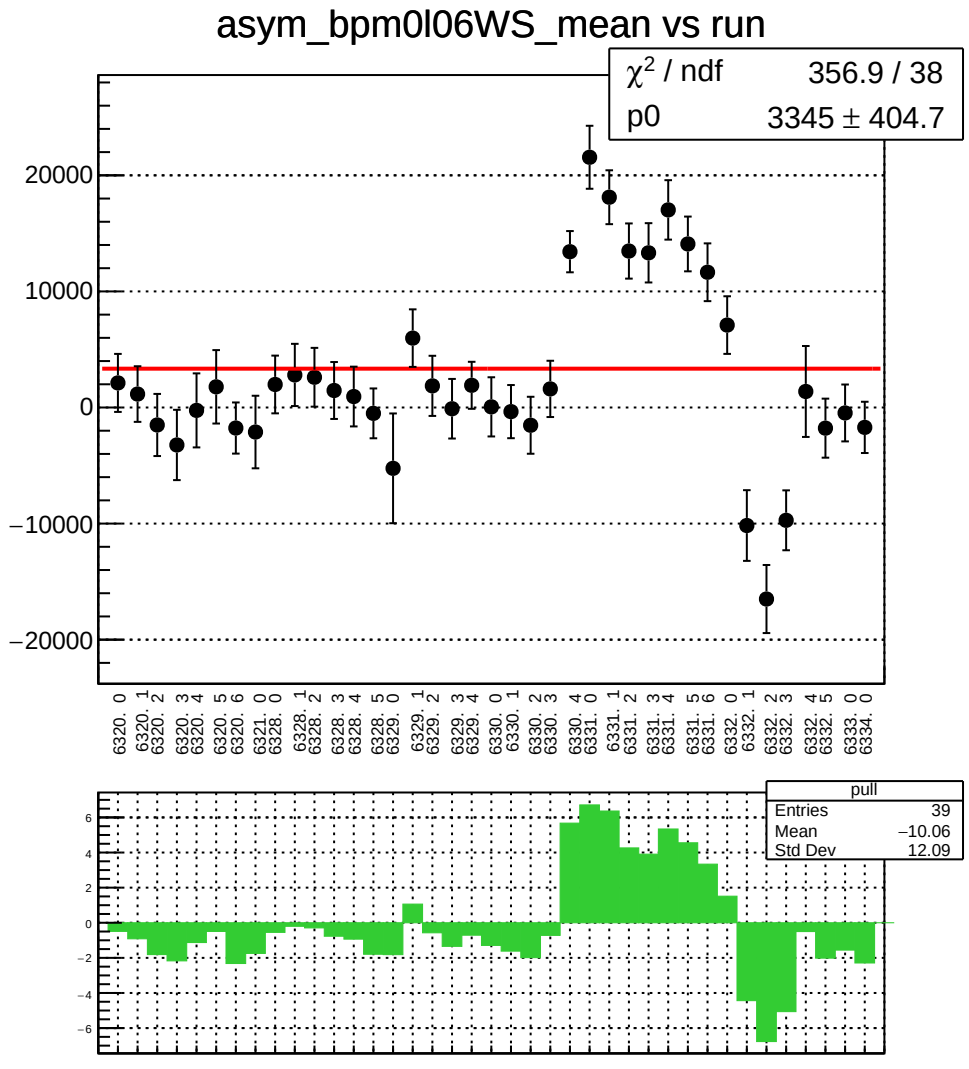

pull1D
Entries 39
Mean −0.1434
Std Dev 3.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

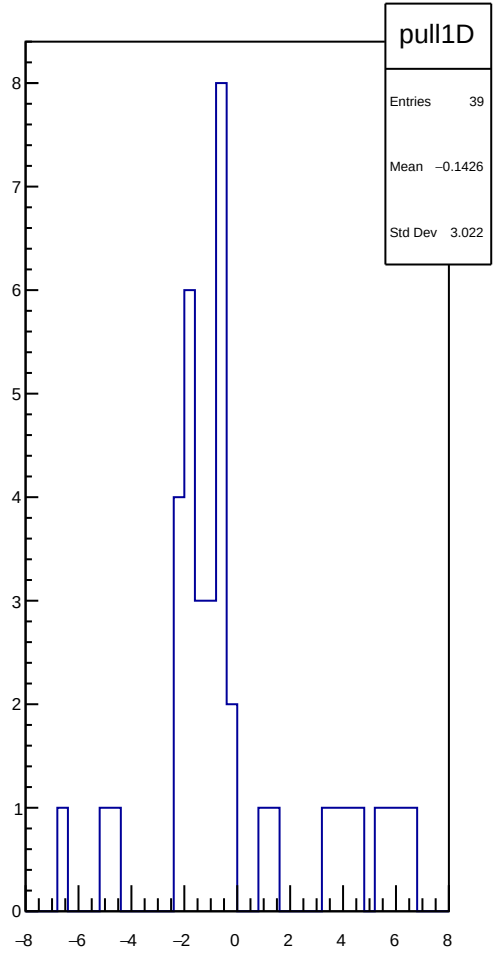

asym_bpm0l04WS_rms vs run
χ^2 / ndf 9067 / 38
p0 248.8 ± 0.2875
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

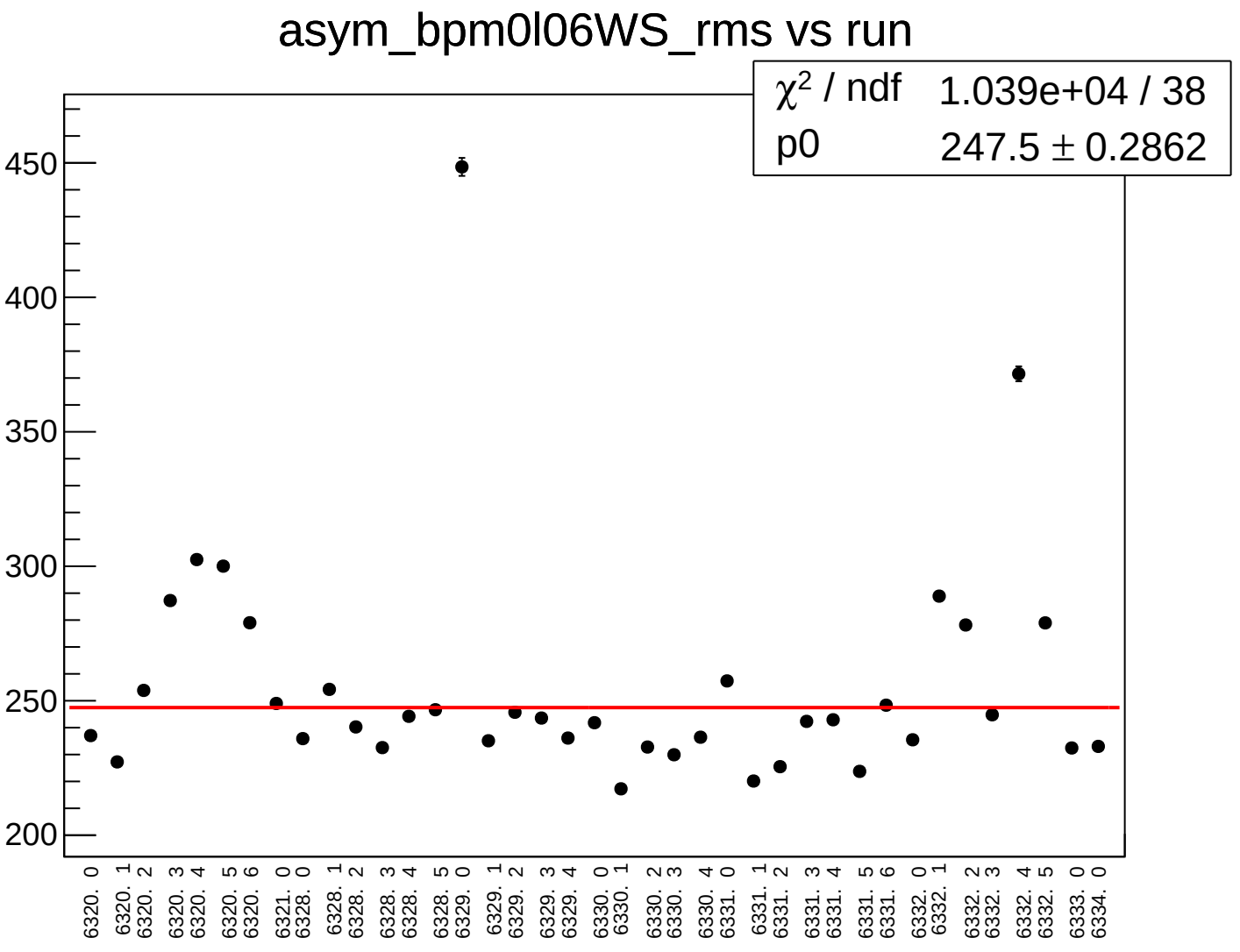

asym_bpm0l05WS_mean vs run
χ² / ndf 355.6 / 38
p0 3361 ± 411.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.407
Std Dev 23.3
6
4
2
0
−2
−4
−6

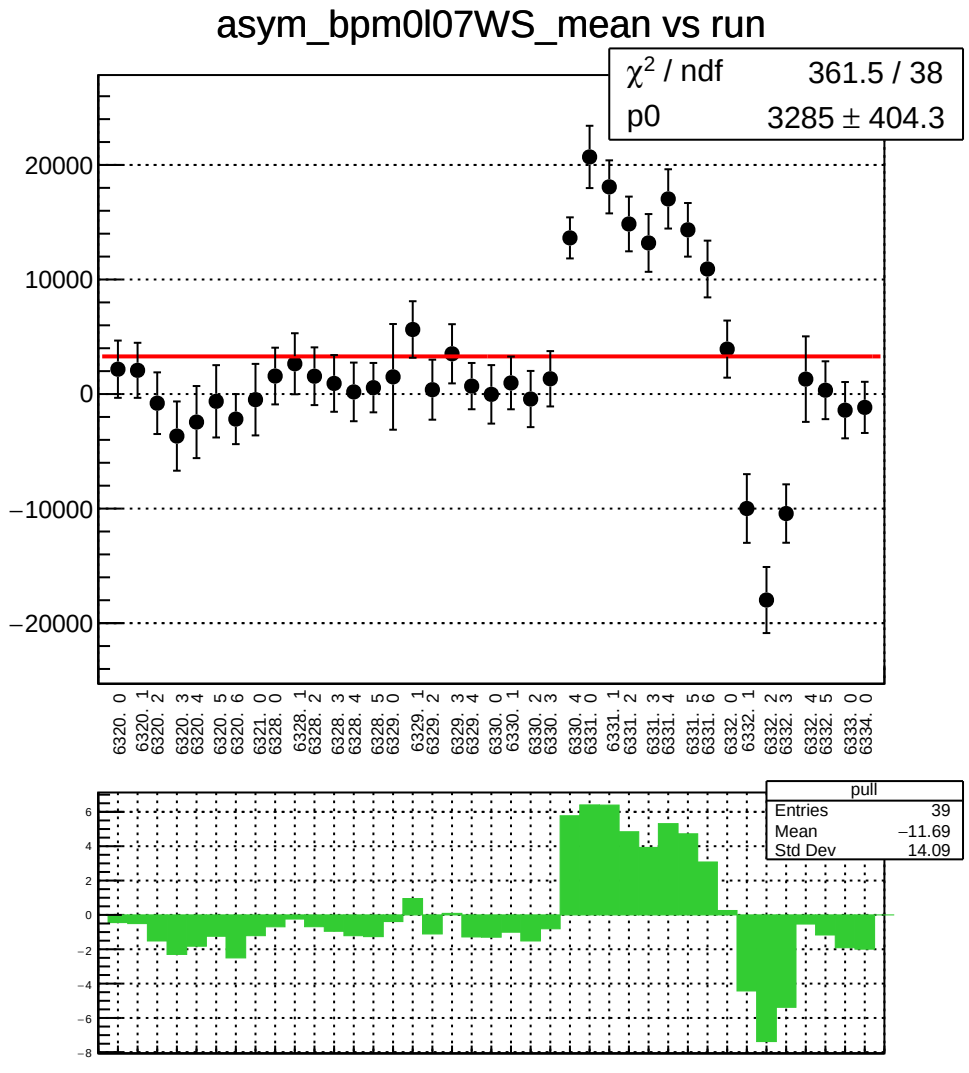

pull1D
Entries 39
Mean −0.152
Std Dev 3.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

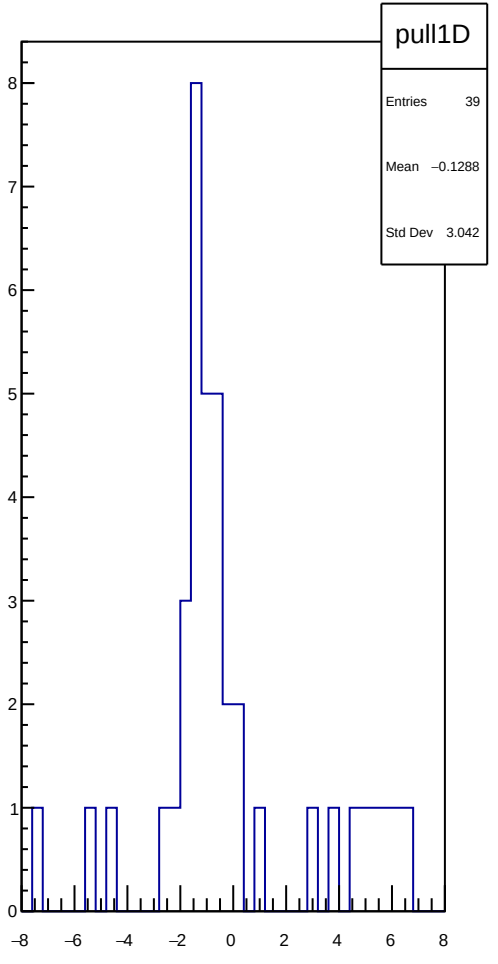

asym_bpm0l05WS_rms vs run
χ² / ndf 1.129e+04 / 38
p0 251.4 ± 0.2909
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

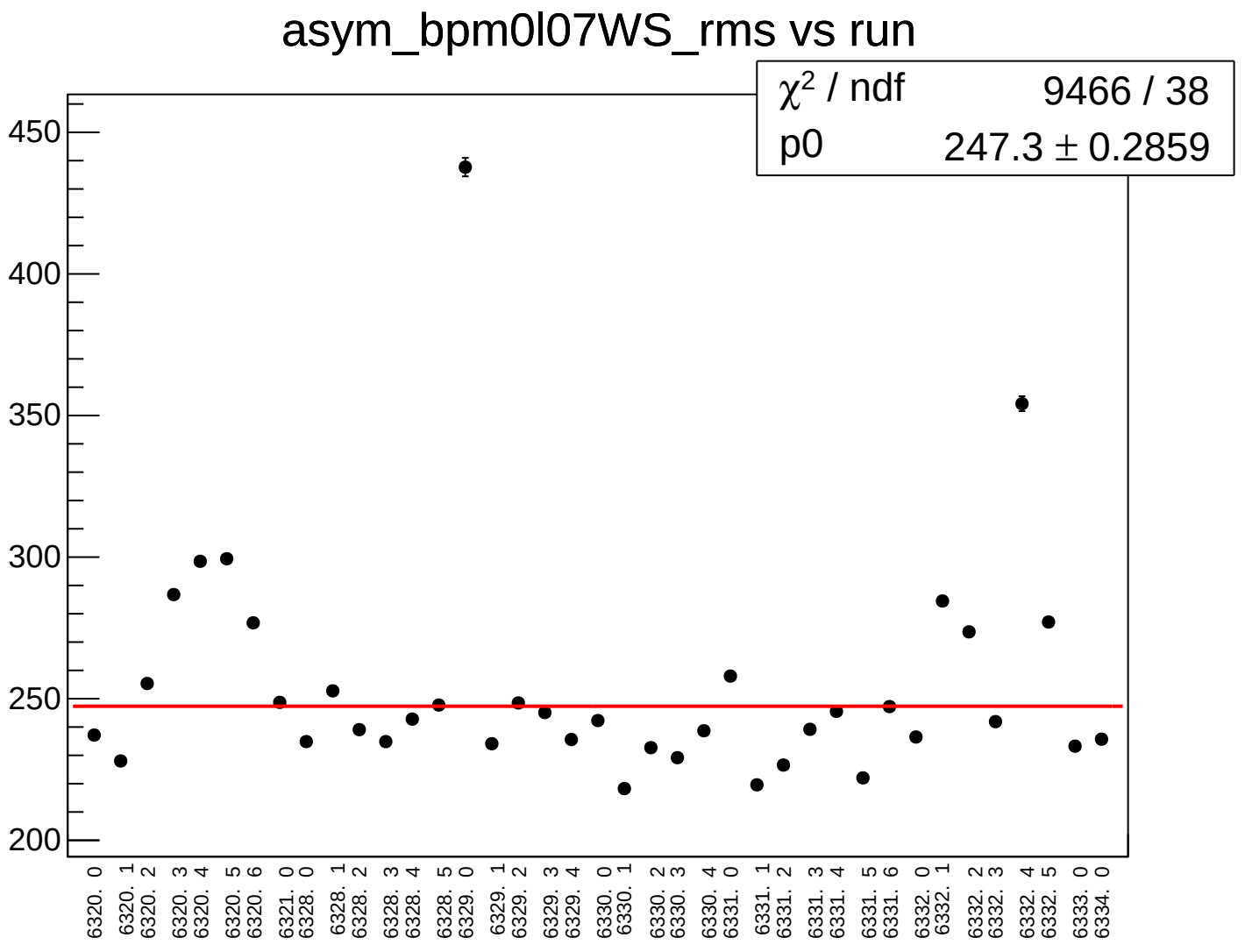

asym_bpm0l06WS_mean vs run
χ² / ndf 356.9 / 38
p0 3345 ± 404.7
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.06
Std Dev 12.09
6
4
2
0
−2
−4
−6

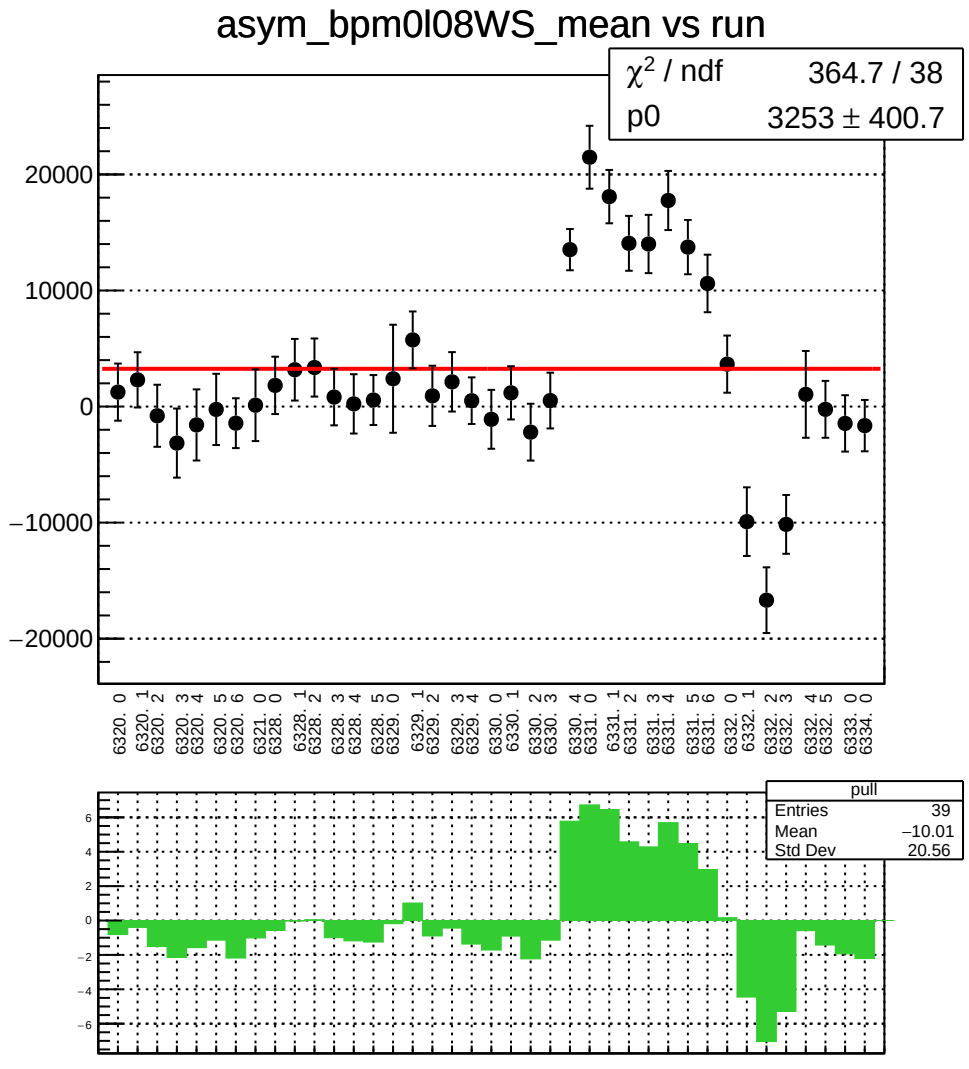

pull1D
Entries 39
Mean −0.1426
Std Dev 3.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

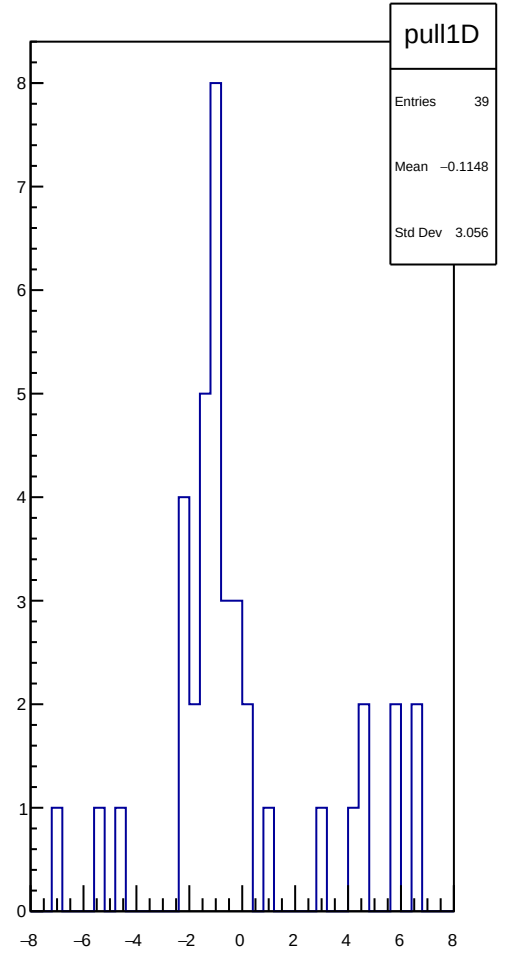

asym_bpm0l06WS_rms vs run
χ² / ndf 1.039e+04 / 38
p0 247.5 ± 0.2862
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

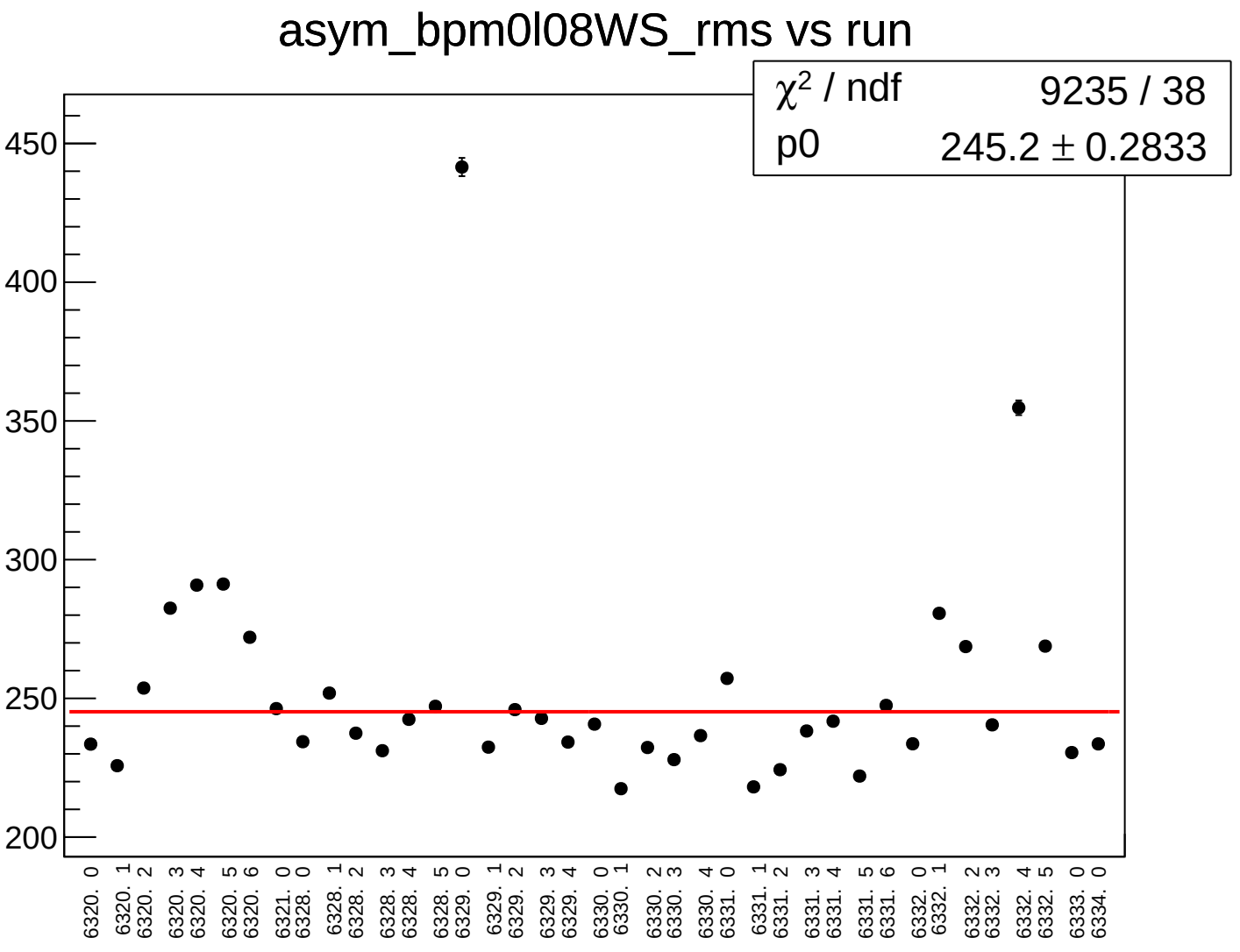

asym_bpm0l07WS_mean vs run
χ² / ndf 361.5 / 38
p0 3285 ± 404.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.69
Std Dev 14.09
6
4
2
0
−2
−4
−6
−8

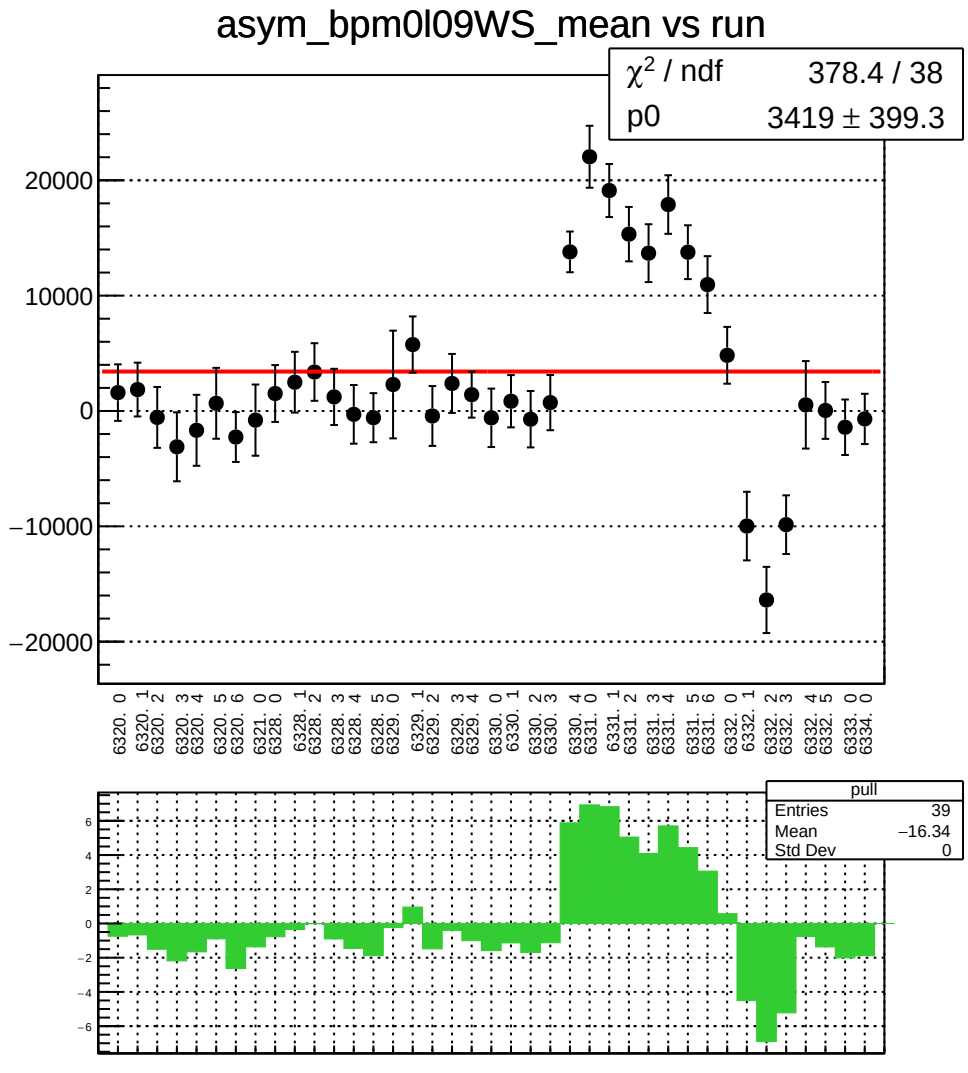

pull1D
Entries 39
Mean −0.1288
Std Dev 3.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

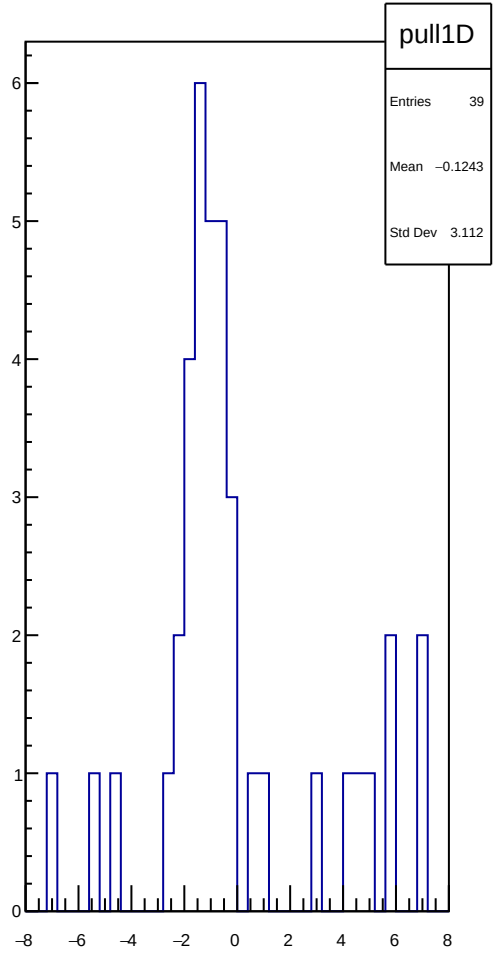

asym_bpm0l07WS_rms vs run
χ^2 / ndf 9466 / 38
p0 247.3 ± 0.2859
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

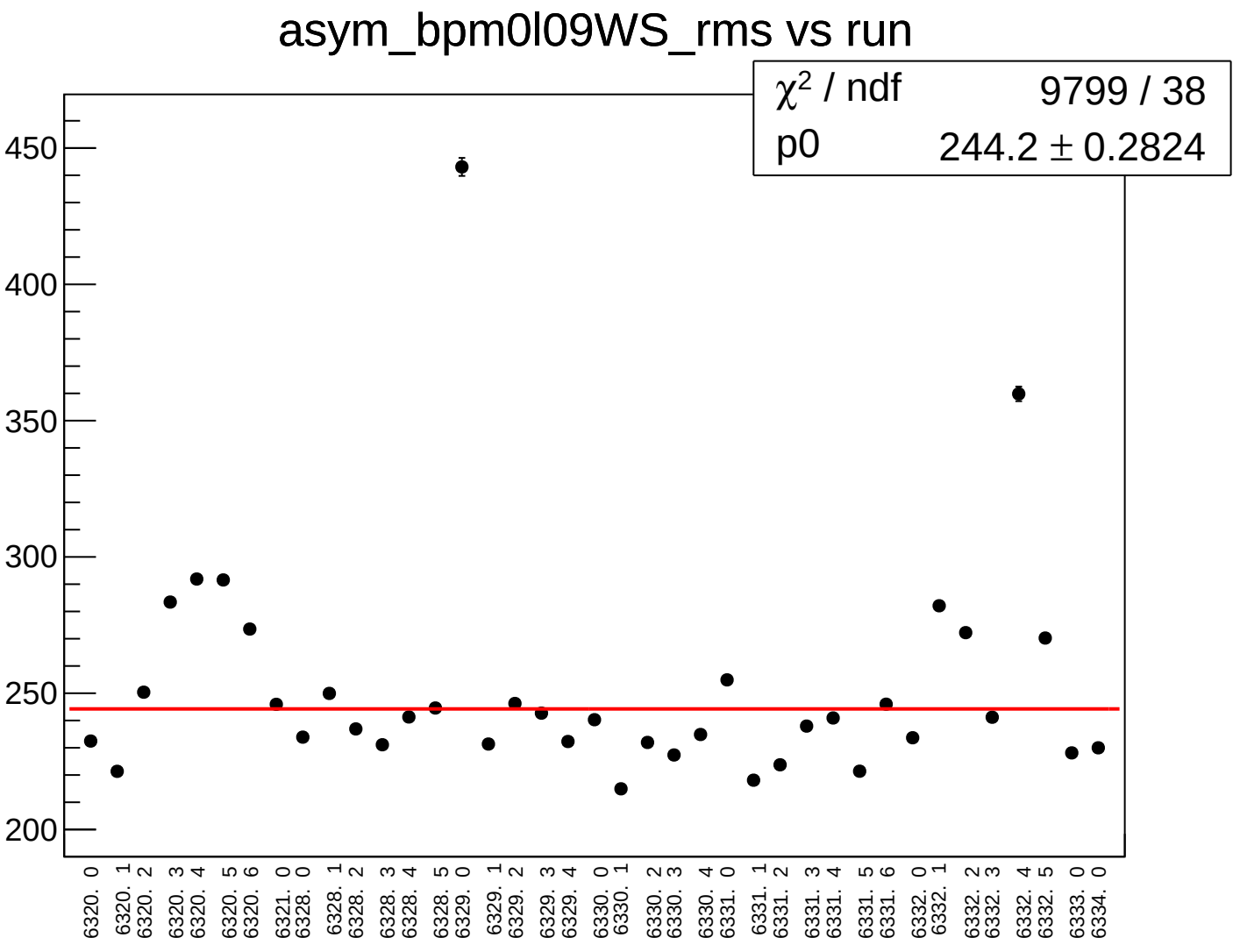

asym_bpm0l08WS_mean vs run
χ² / ndf 364.7 / 38
p0 3253 ± 400.7
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.01
Std Dev 20.56
6
4
2
0
−2
−4
−6


pull1D
Entries 39
Mean −0.1148
Std Dev 3.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l08WS_rms vs run
χ^2 / ndf 9235 / 38
p0 245.2 ± 0.2833
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_bpm0l09WS_mean vs run
χ² / ndf 378.4 / 38
p0 3419 ± 399.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.34
Std Dev 0
6
4
2
0
−2
−4
−6


pull1D
Entries 39
Mean −0.1243
Std Dev 3.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ² / ndf 9799 / 38
p0 244.2 ± 0.2824
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
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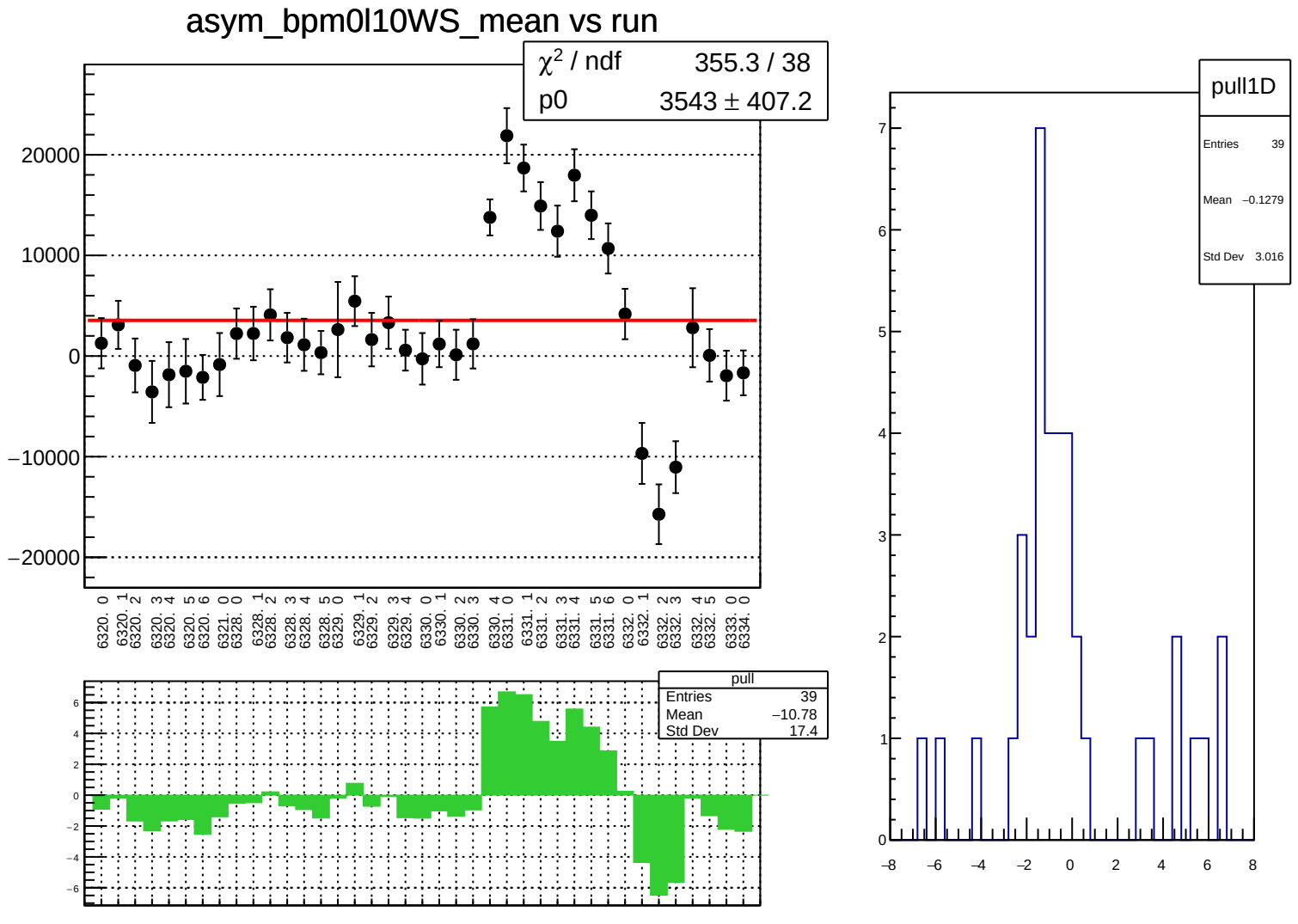
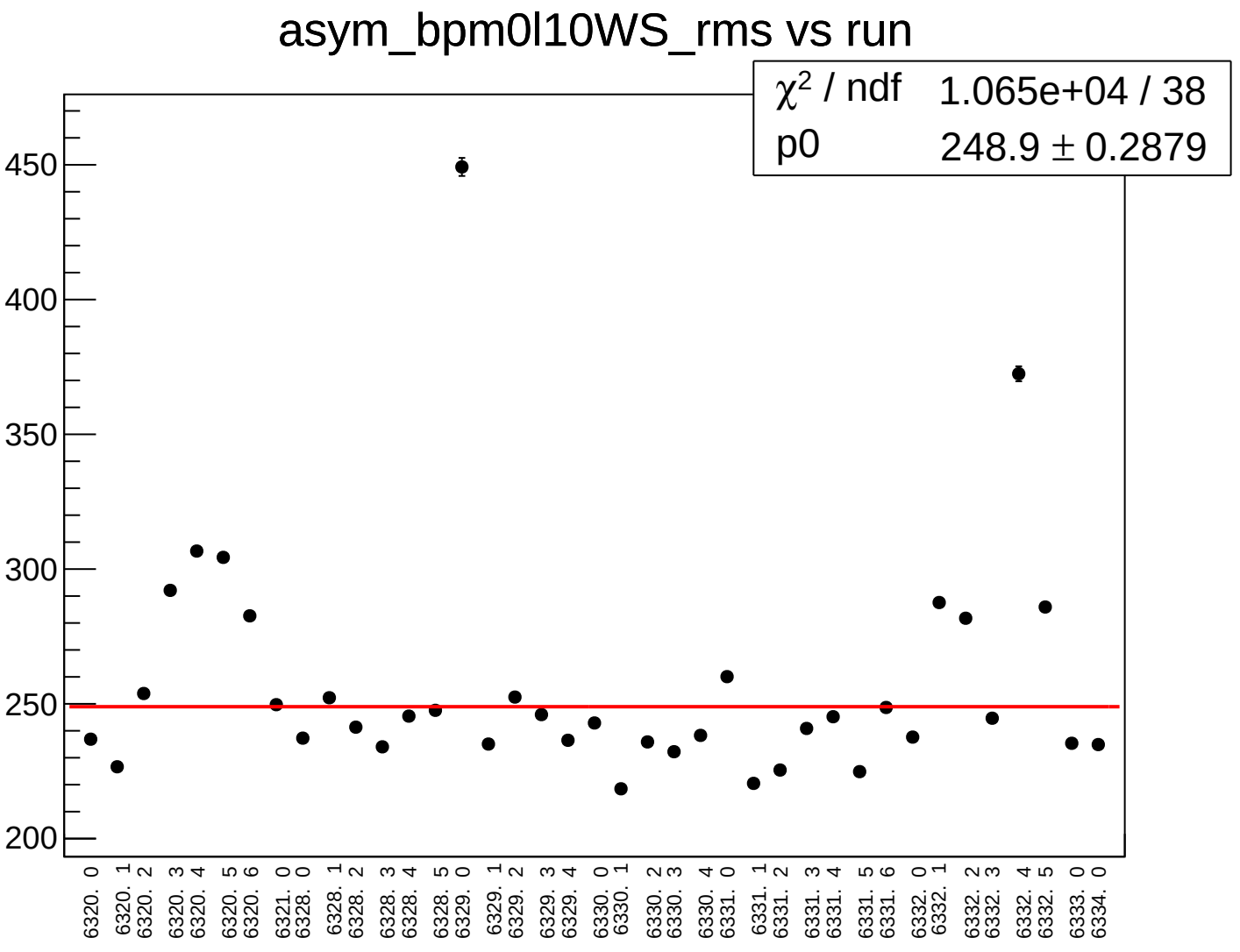
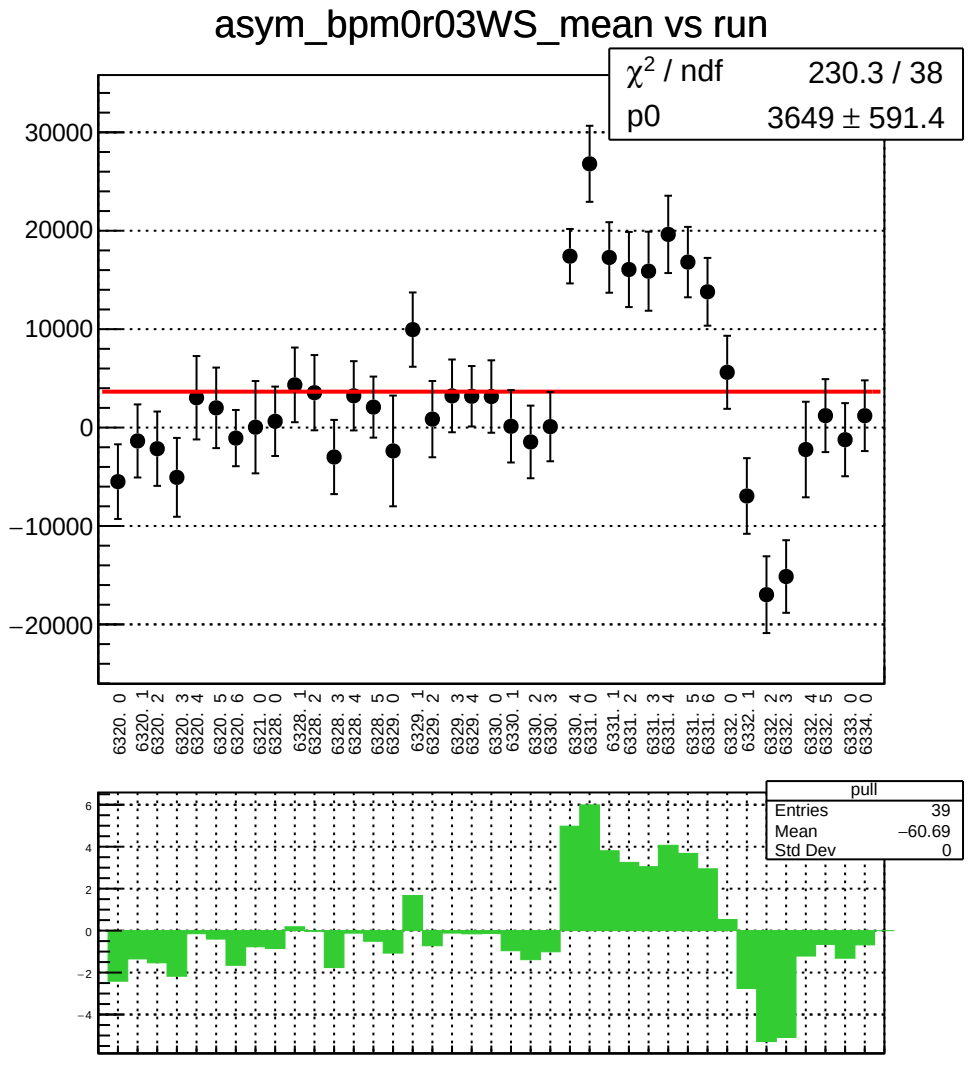
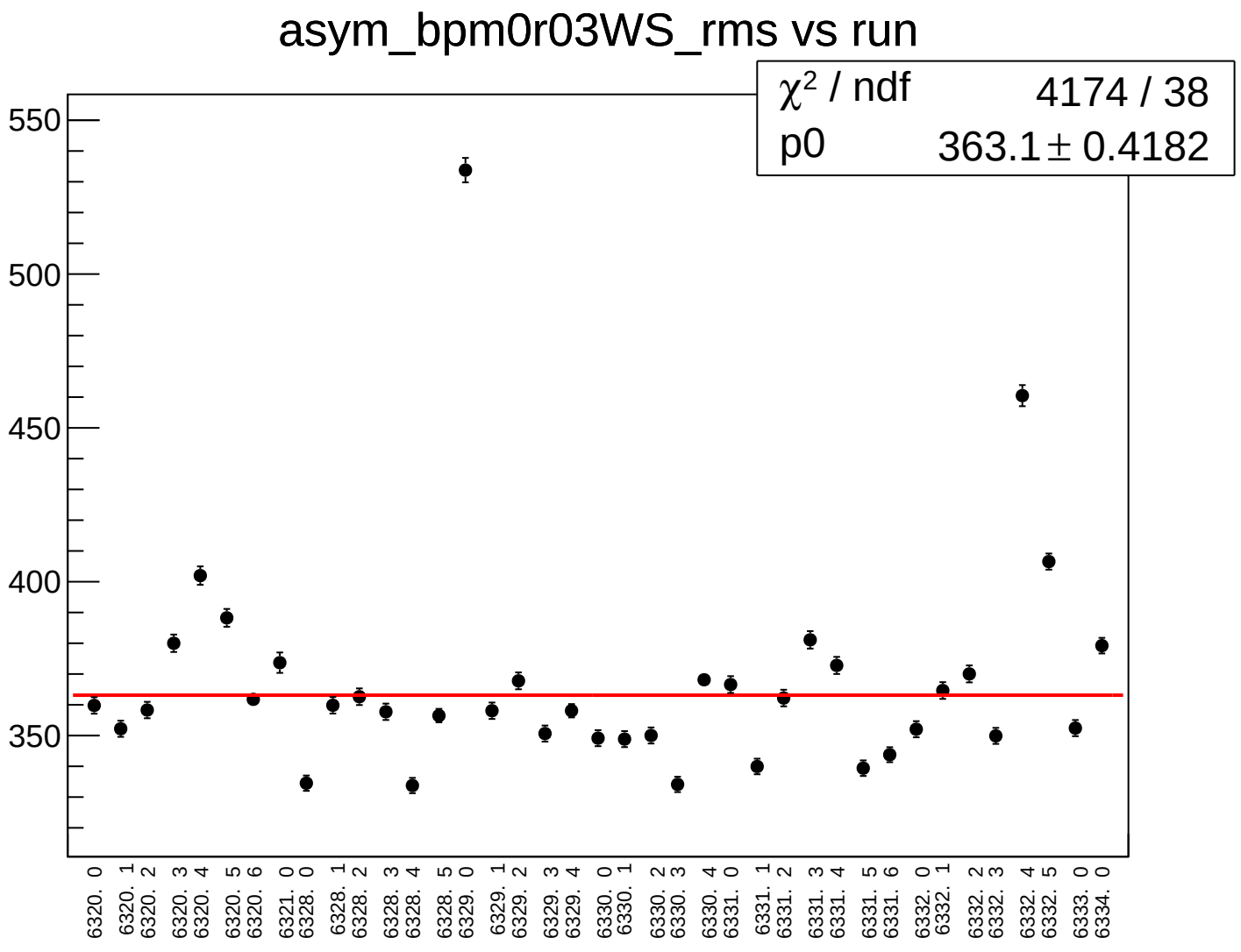
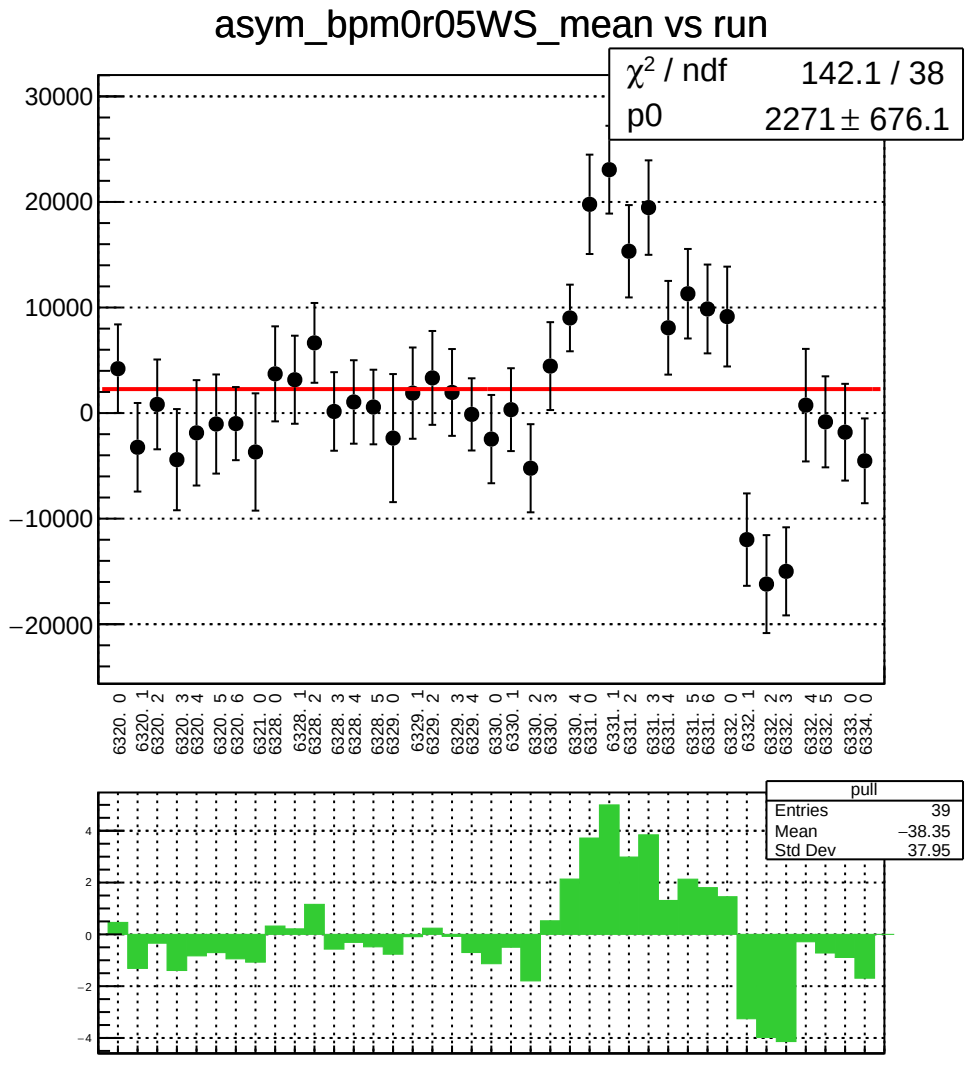
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

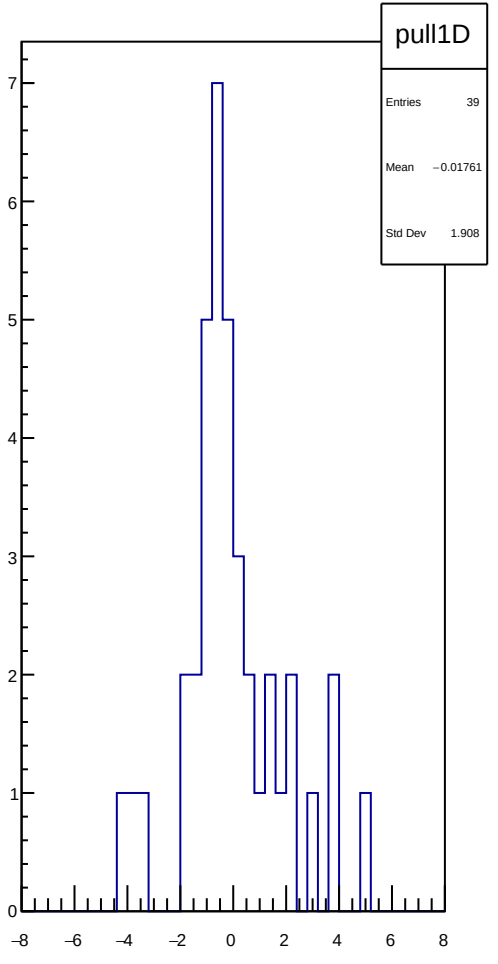

asym_bpm0l10WS_mean vs run
χ² / ndf 355.3 / 38
p0 3543 ± 407.2
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.78
Std Dev 17.4
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.1279
Std Dev 3.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

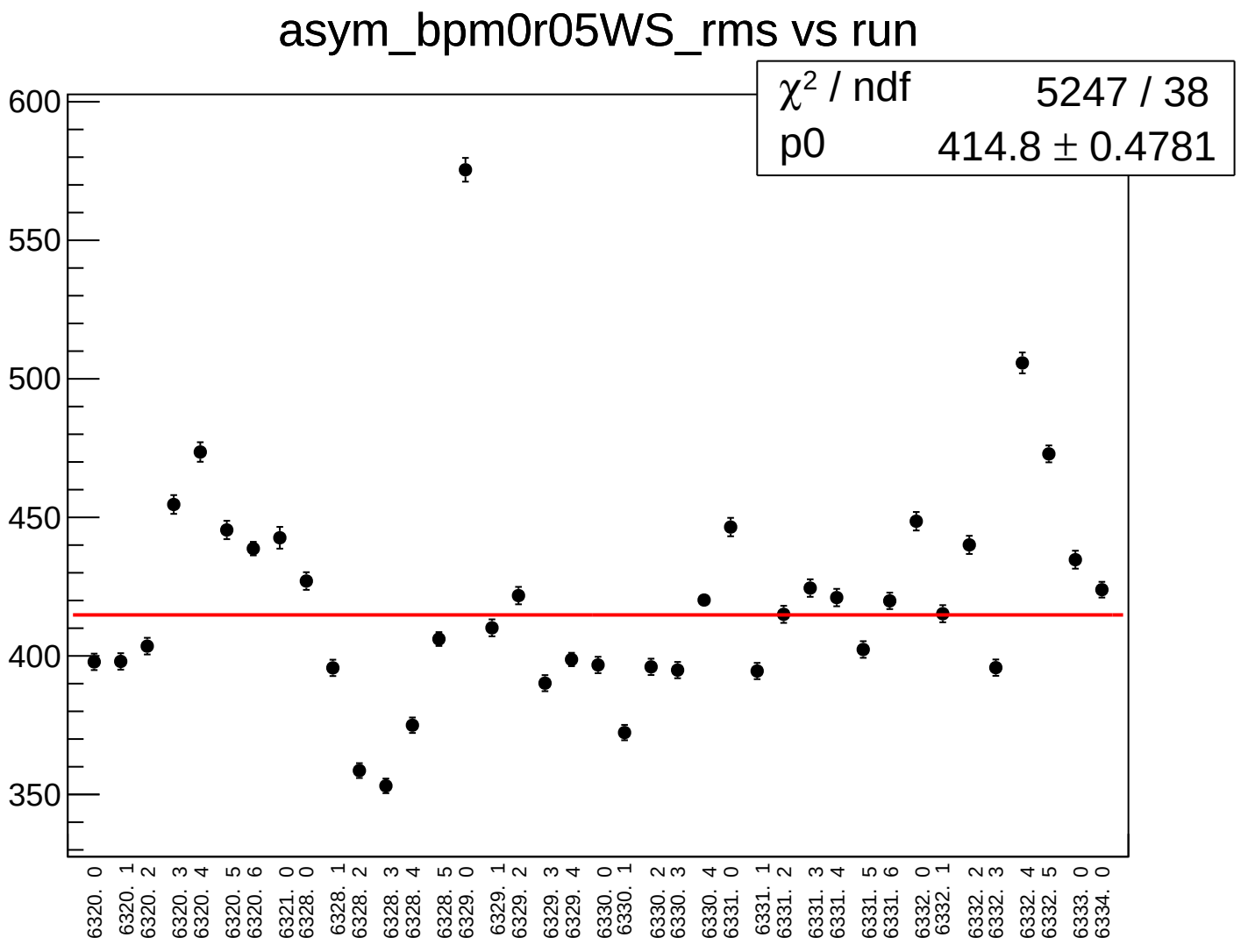

asym_bpm0l10WS_rms vs run
χ² / ndf 1.065e+04 / 38
p0 248.9 ± 0.2879
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

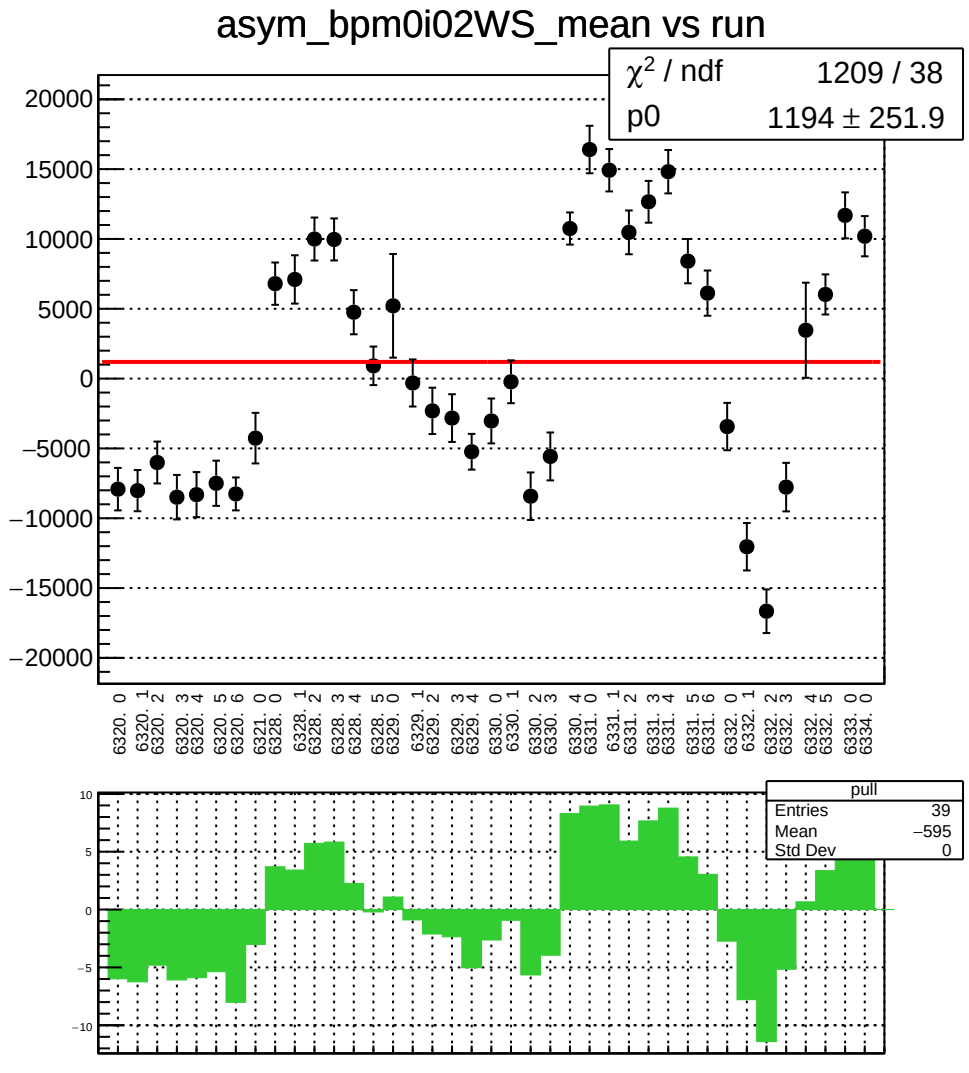

asym_bpm0r03WS_mean vs run
χ² / ndf 230.3 / 38
p0 3649 ± 591.4
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.69
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 39
Mean −0.05382
Std Dev 2.43
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

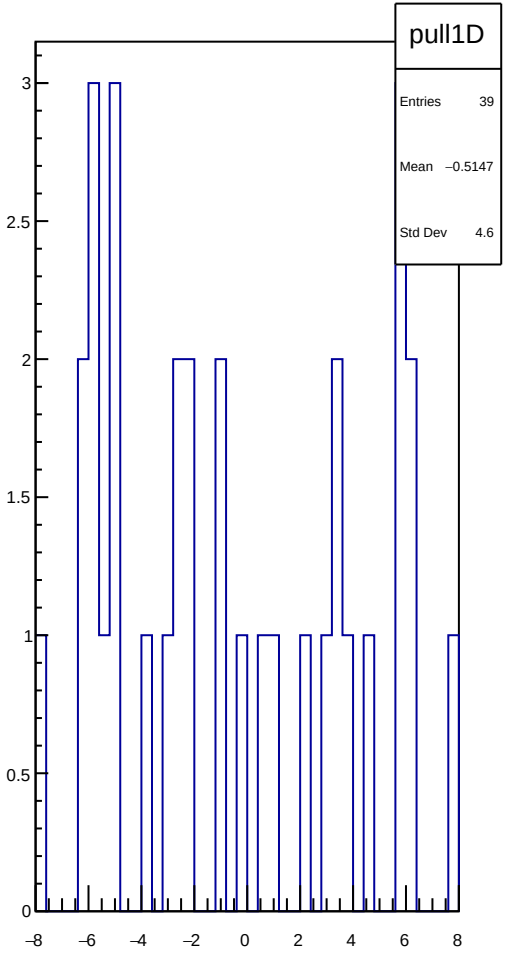

asym_bpm0r03WS_rms vs run
χ² / ndf 4174 / 38
p0 363.1 ± 0.4182
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

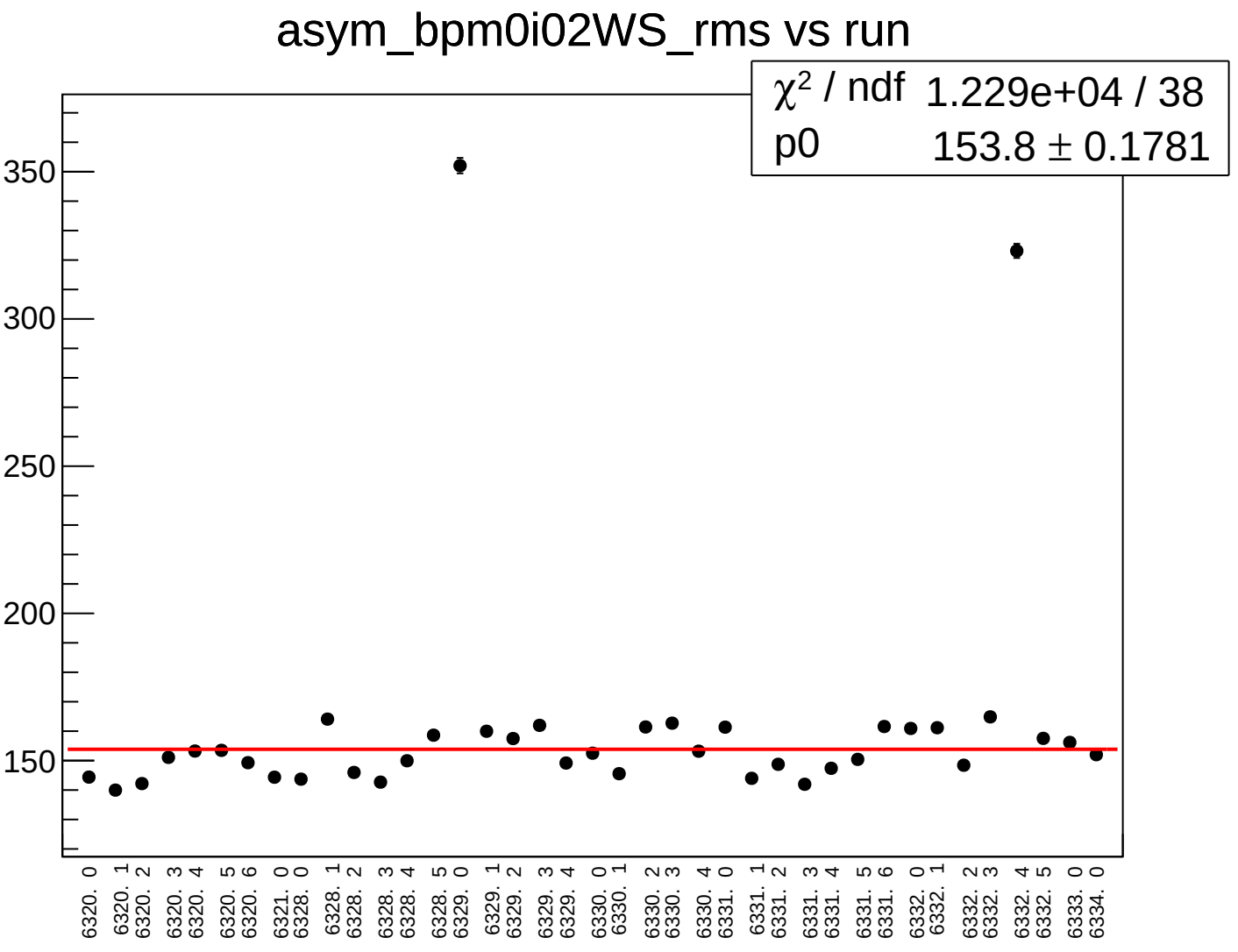

asym_bpm0r05WS_mean vs run
χ² / ndf 142.1 / 38
p0 2271 ± 676.1
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.35
Std Dev 37.95
4
2
0
−2
−4

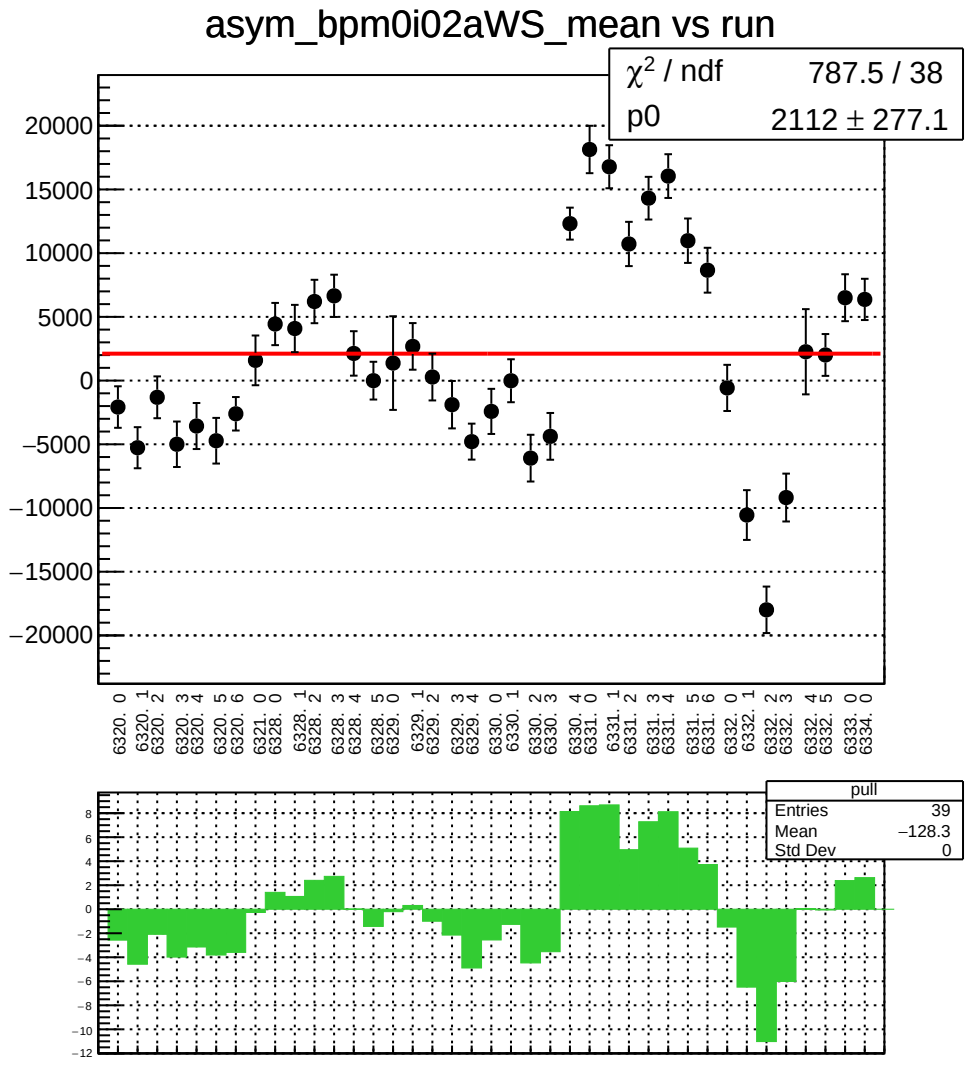

pull1D
Entries 39
Mean −0.01761
Std Dev 1.908
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

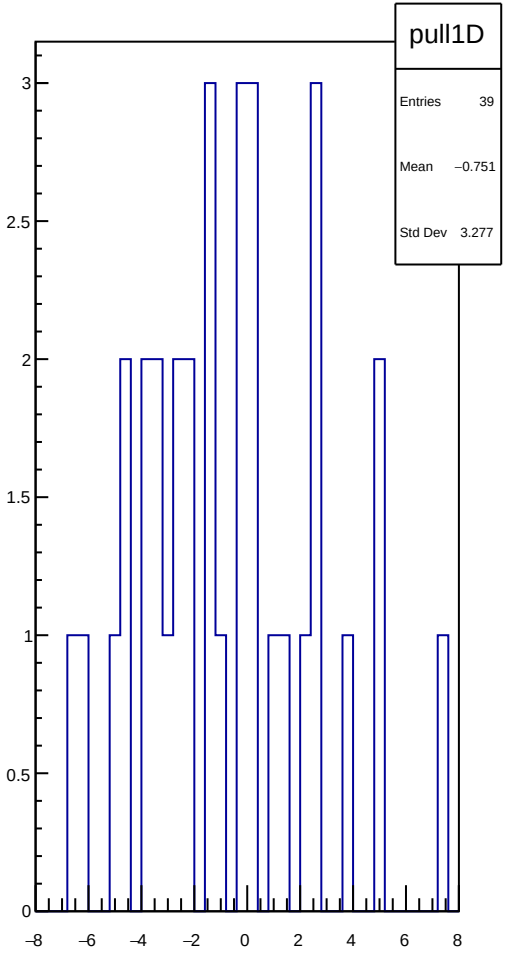

asym_bpm0r05WS_rms vs run
χ² / ndf 5247 / 38
p0 414.8 ± 0.4781
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

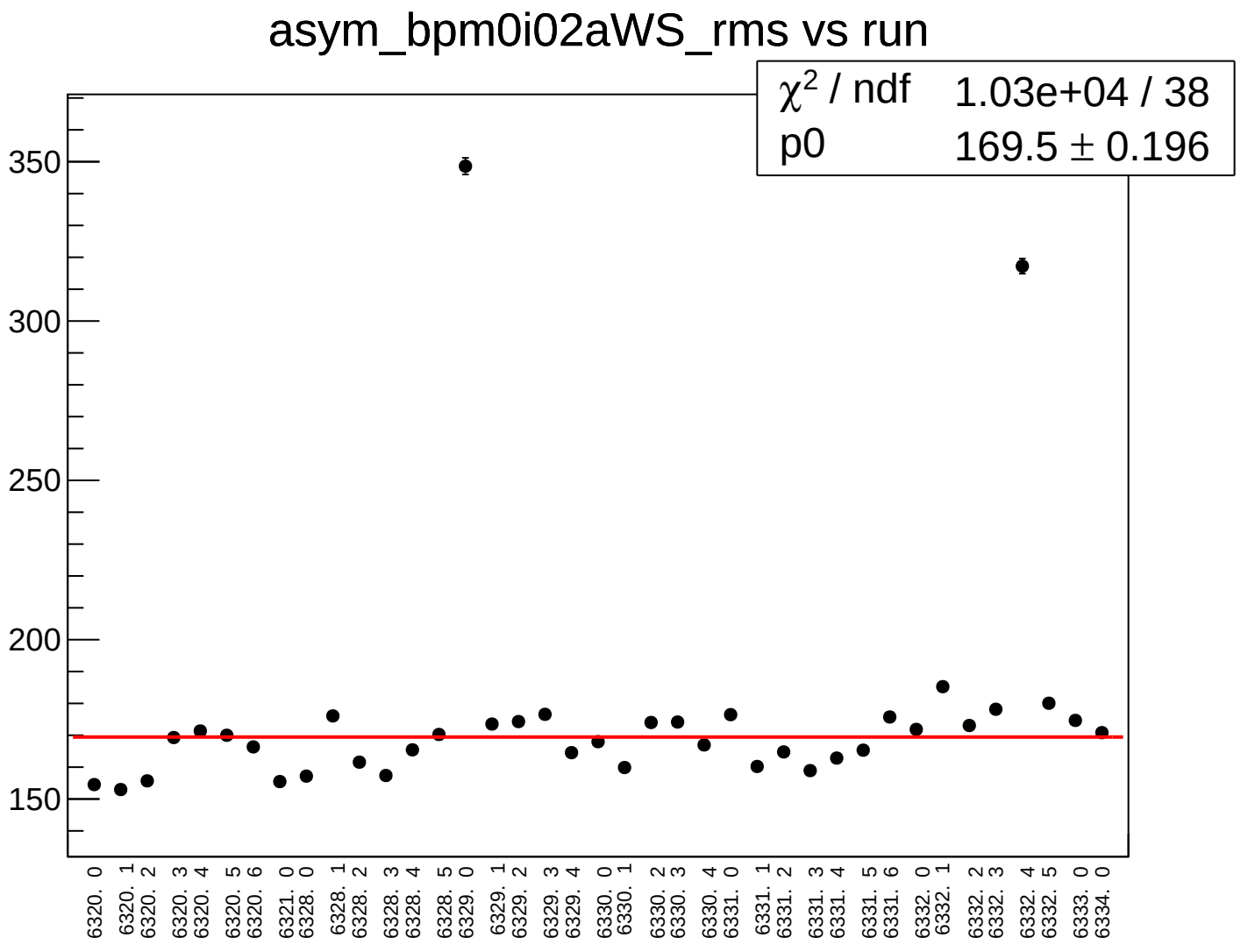

asym_bpm0i02WS_mean vs run
χ² / ndf 1209 / 38
p0 1194 ± 251.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −595
Std Dev 0
10
5
0
−5
−10

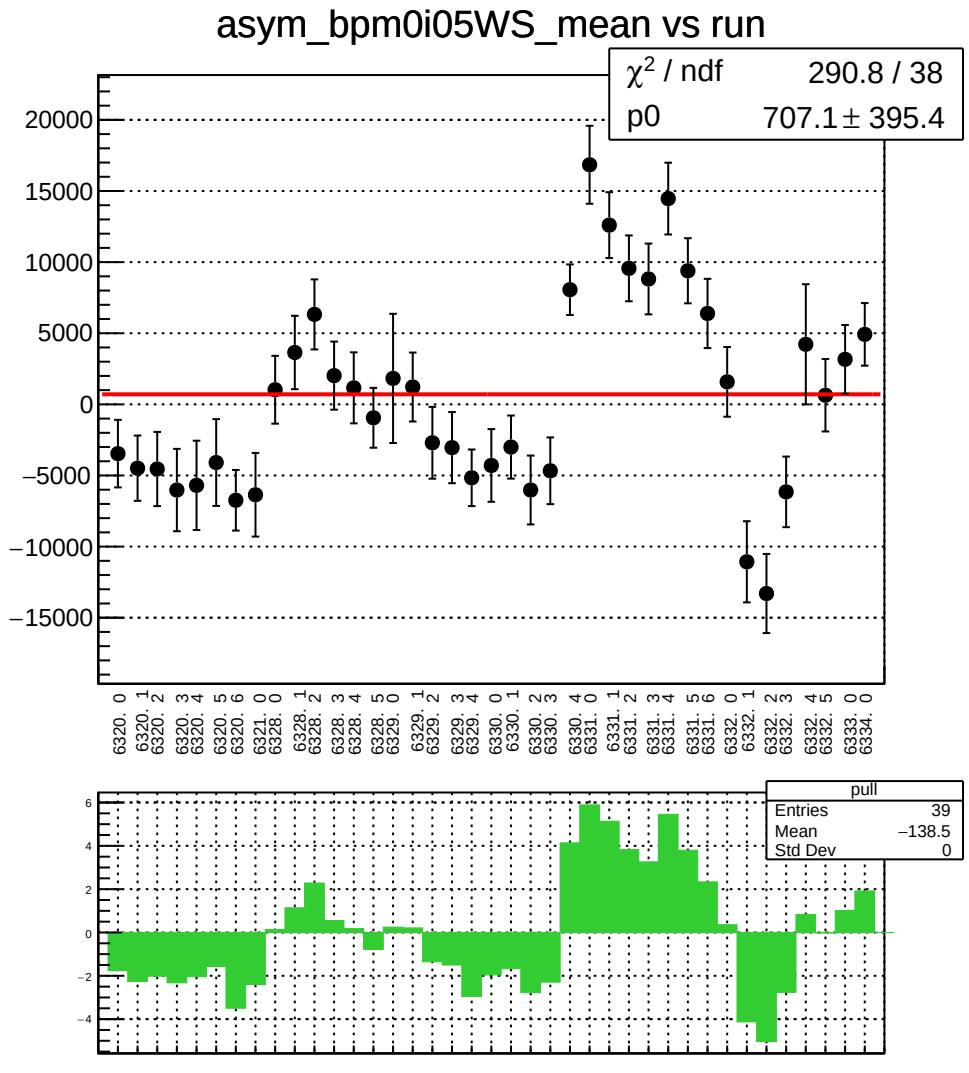

pull1D
Entries 39
Mean −0.5147
Std Dev 4.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

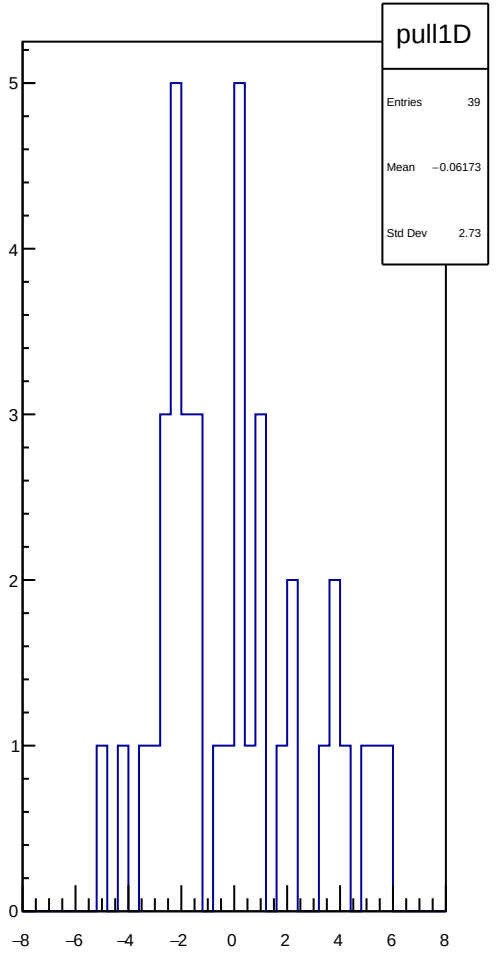

asym_bpm0i02WS_rms vs run
χ² / ndf 1.229e+04 / 38
p0 153.8 ± 0.1781
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

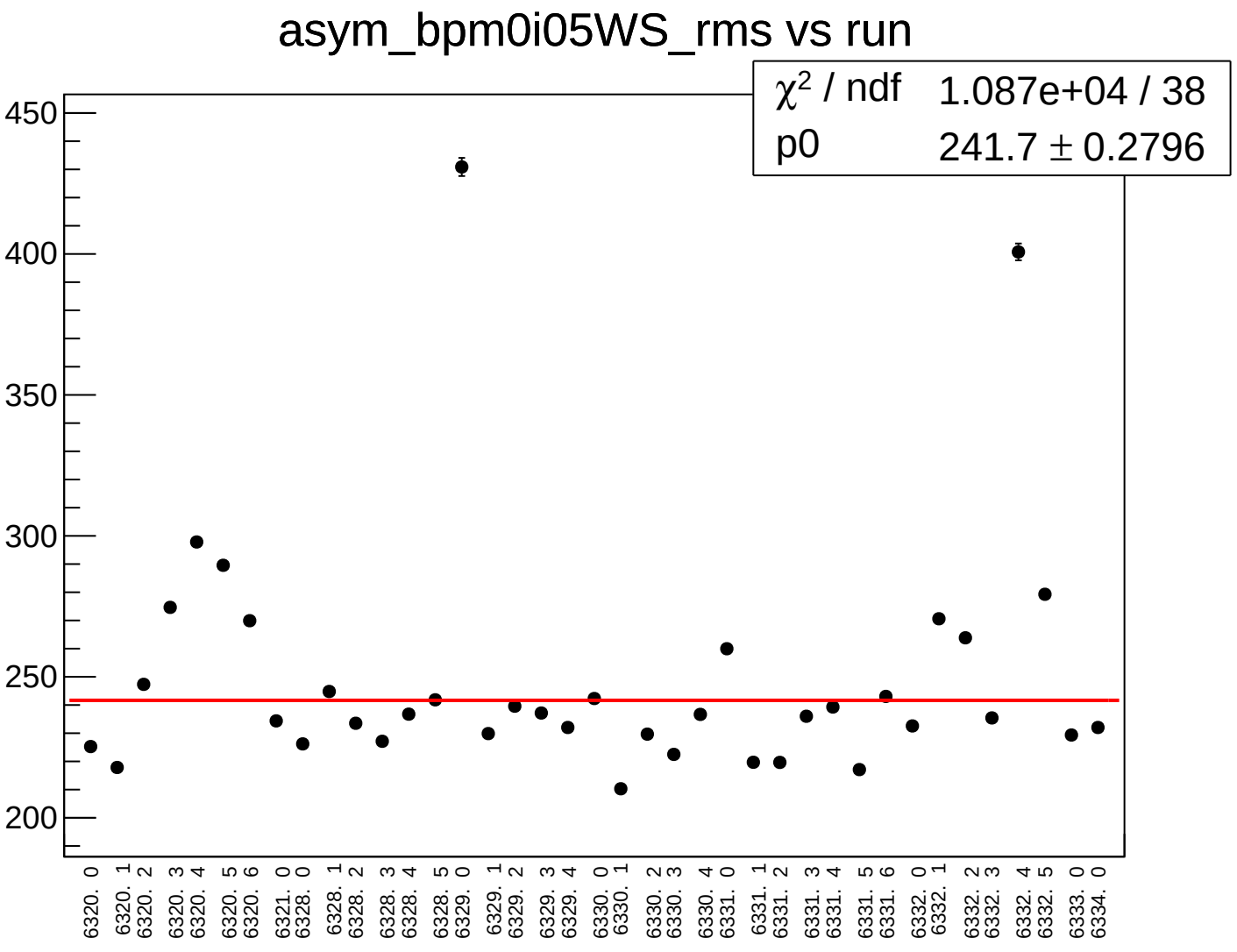

asym_bpm0i02aWS_mean vs run
χ² / ndf 787.5 / 38
p0 2112 ± 277.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −128.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

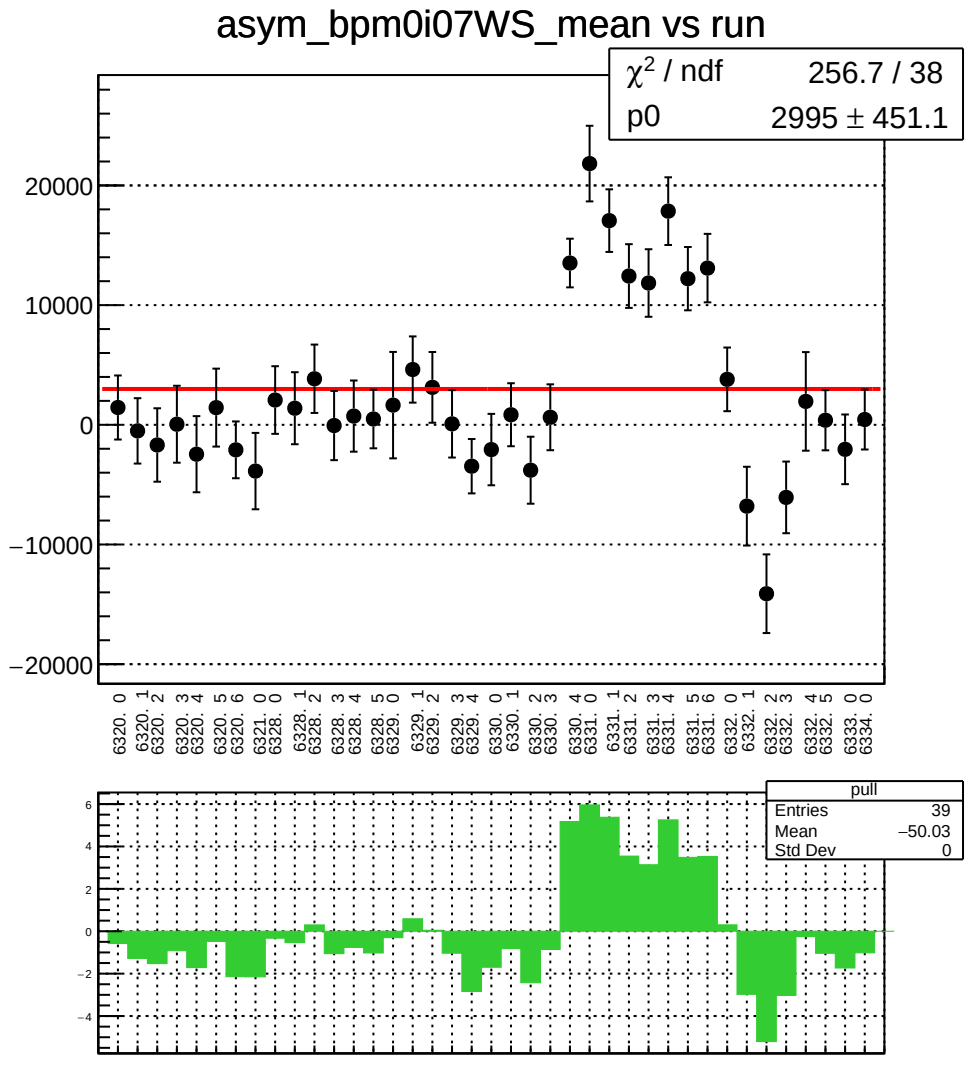

pull1D
Entries 39
Mean −0.751
Std Dev 3.277
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

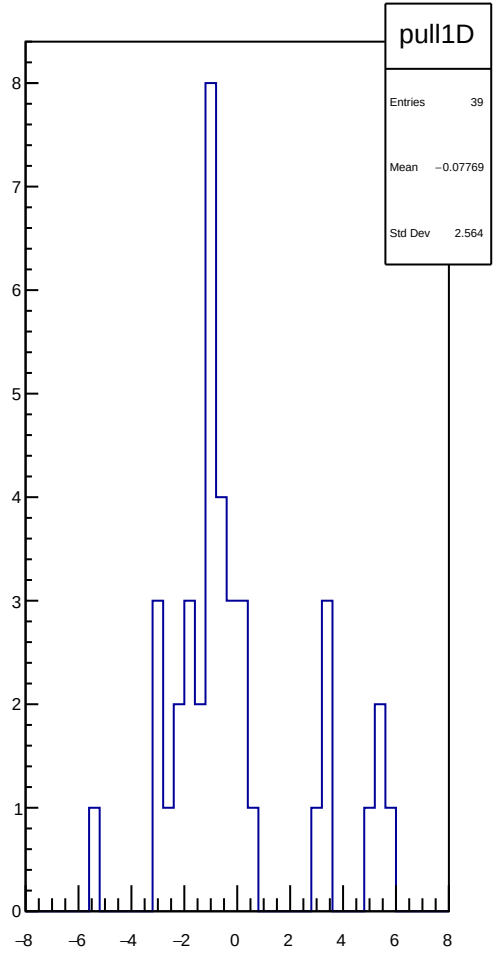

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.03e+04 / 38
p0 169.5 ± 0.196
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

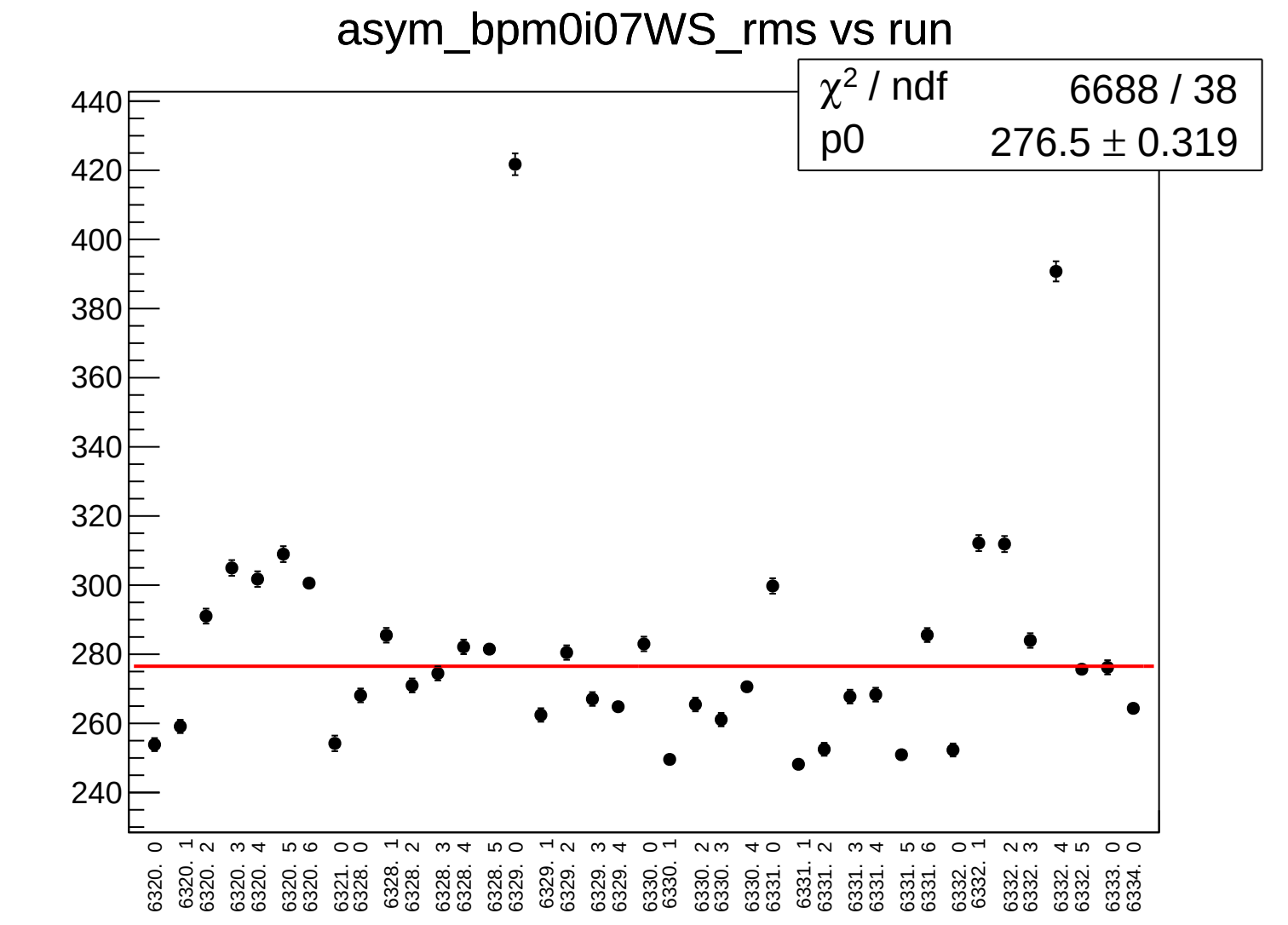

asym_bpm0i05WS_mean vs run
χ² / ndf 290.8 / 38
p0 707.1 ± 395.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −138.5
Std Dev 0
6
4
2
0
−2
−4

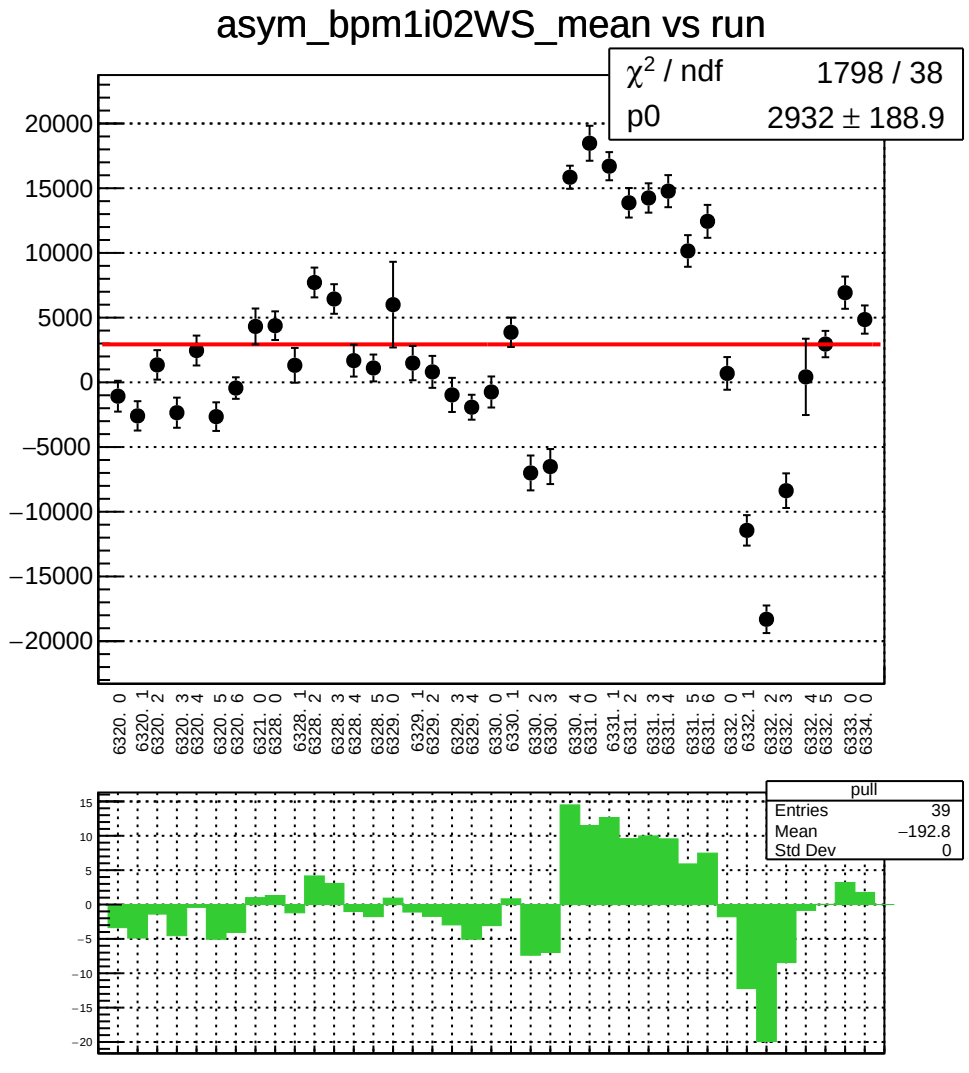

pull1D
Entries 39
Mean −0.06173
Std Dev 2.73
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

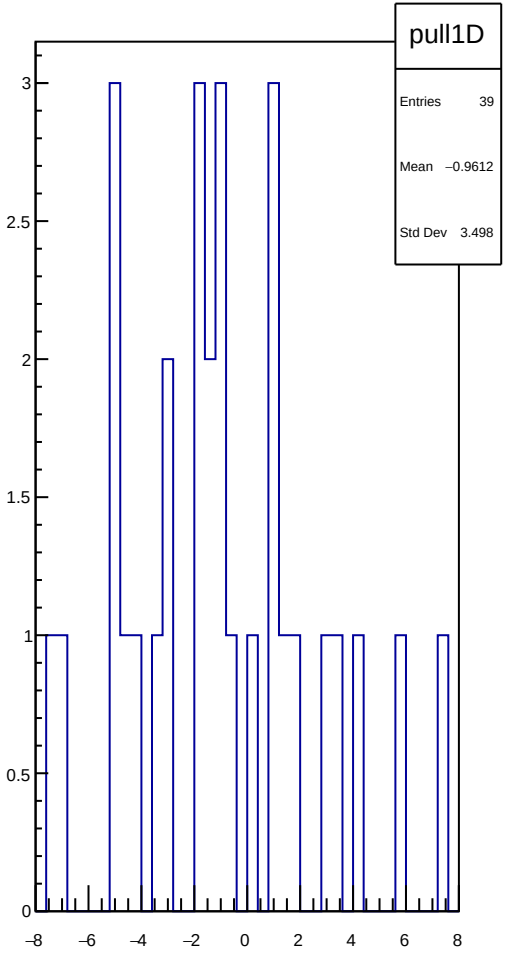

asym_bpm0i05WS_rms vs run
χ² / ndf 1.087e+04 / 38
p0 241.7 ± 0.2796
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

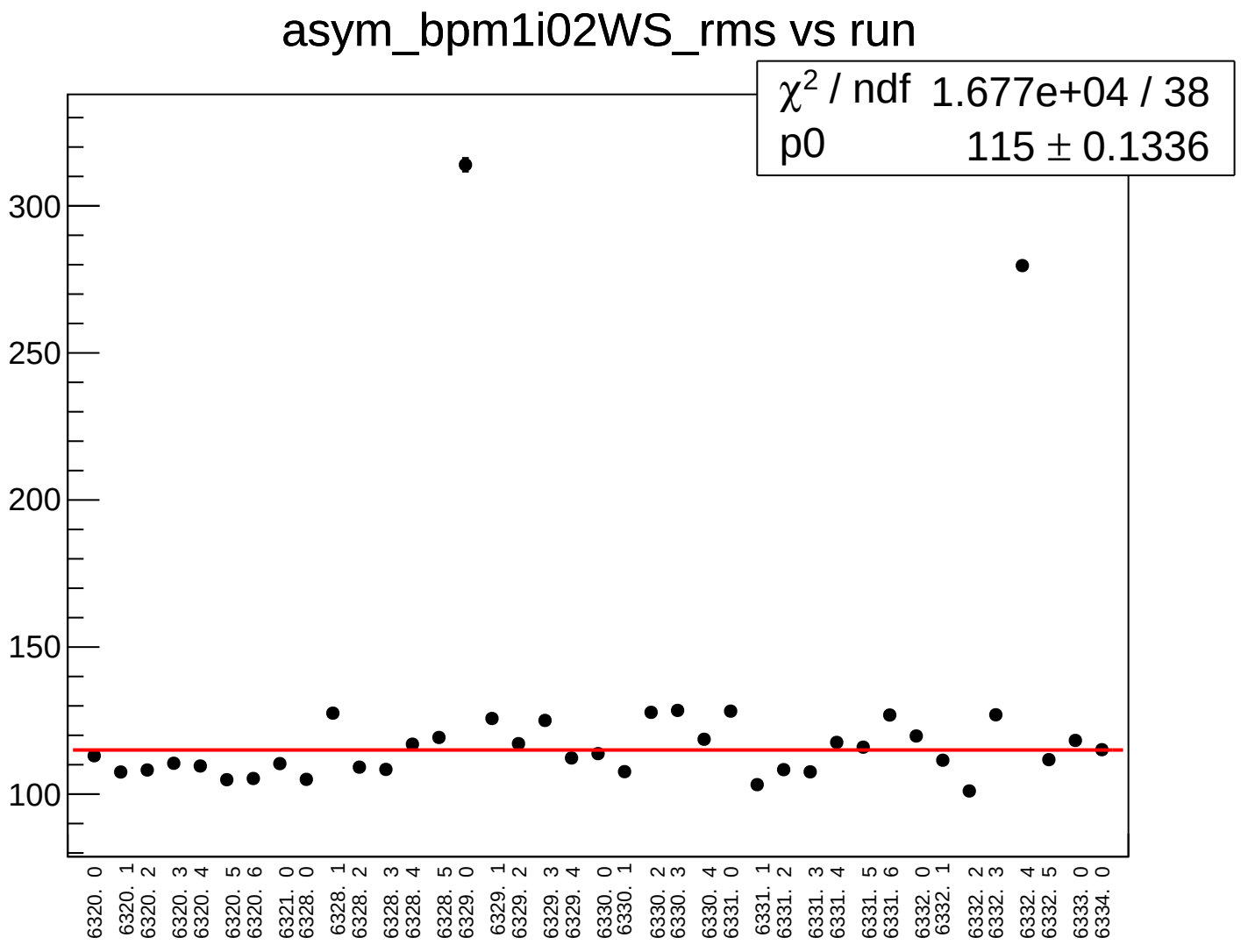

asym_bpm0i07WS_mean vs run
χ² / ndf 256.7 / 38
p0 2995 ± 451.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −50.03
Std Dev 0
6
4
2
0
−2
−4

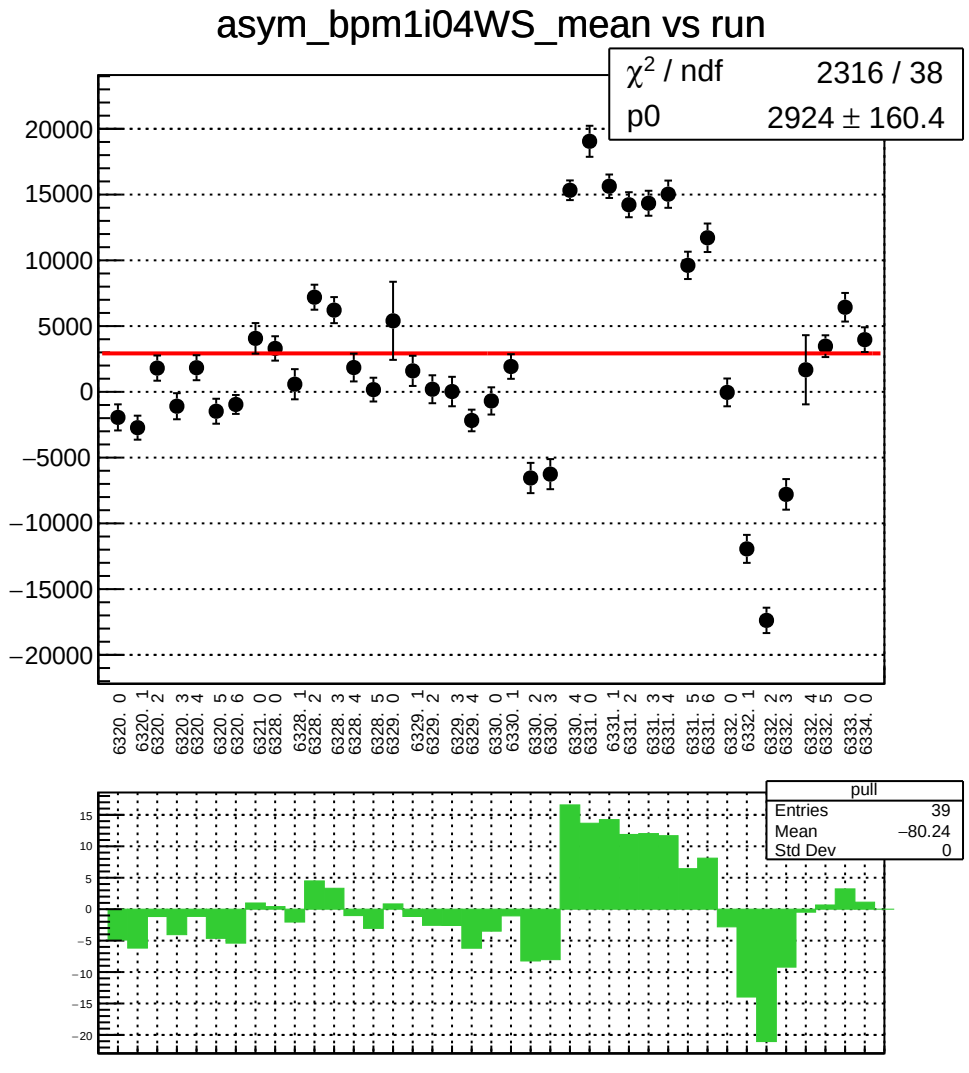

pull1D
Entries 39
Mean −0.07769
Std Dev 2.564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

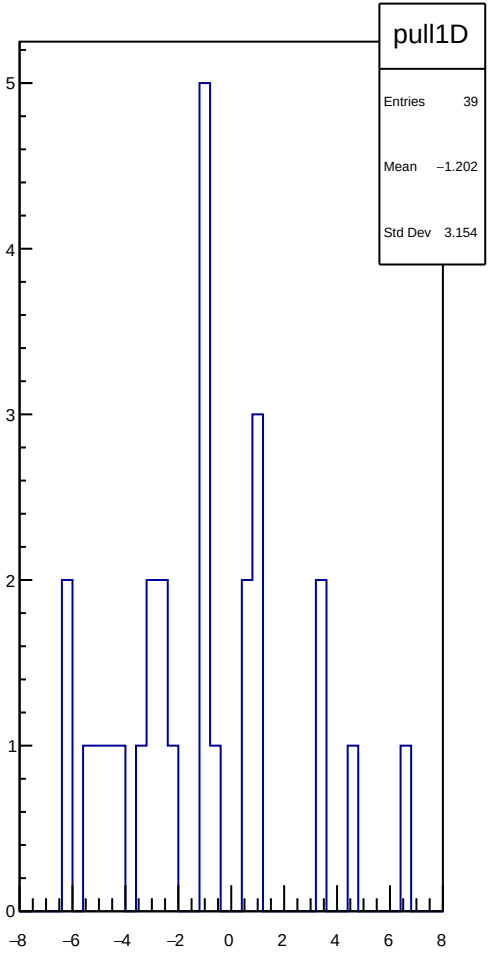

asym_bpm0i07WS_rms vs run
χ^2 / ndf 6688 / 38
p0 276.5 ± 0.319
440
420
400
380
360
340
320
300
280
260
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

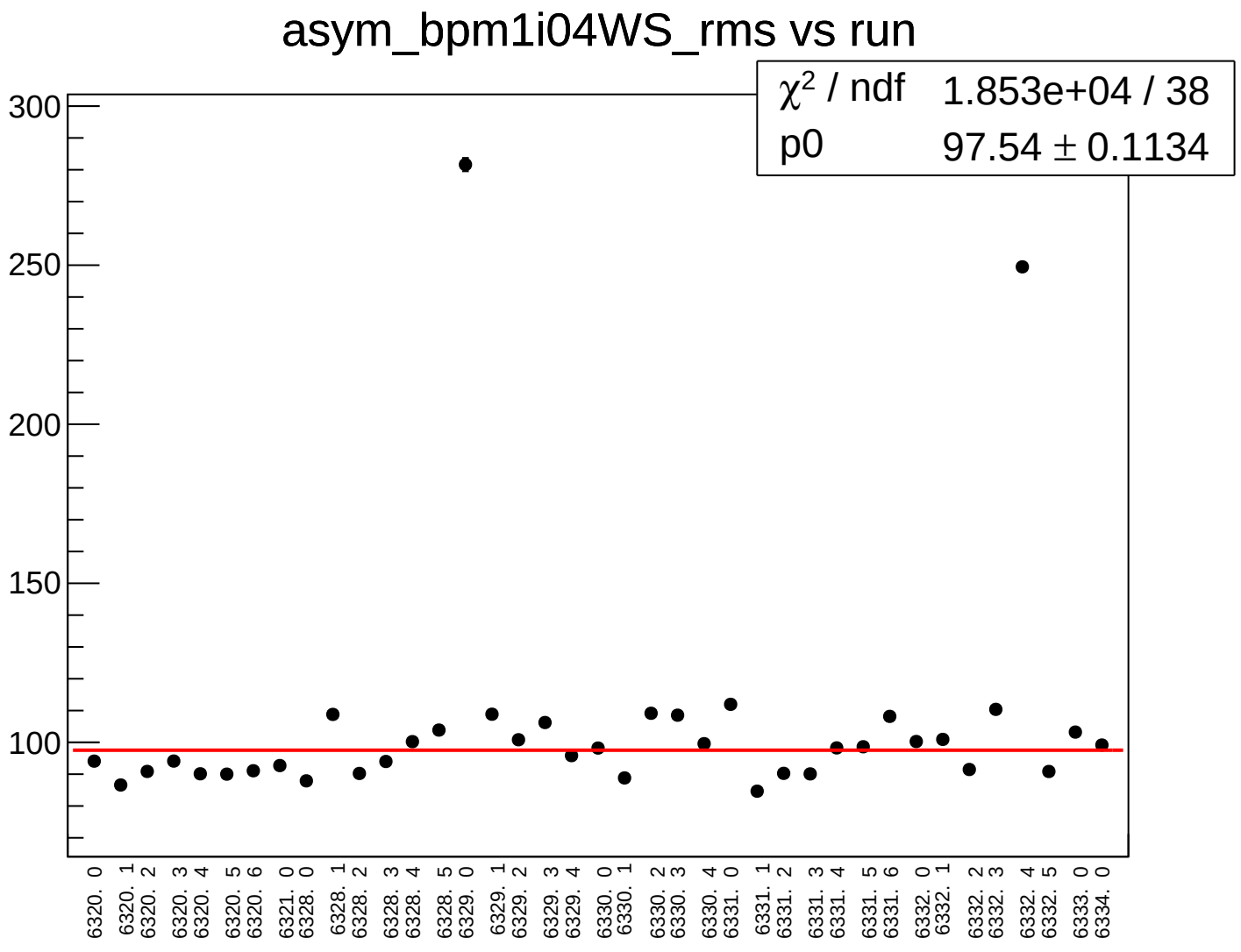

asym_bpm1i02WS_mean vs run
χ² / ndf 1798 / 38
p0 2932 ± 188.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −192.8
Std Dev 0
15
10
5
0
−5
−10
−15
−20

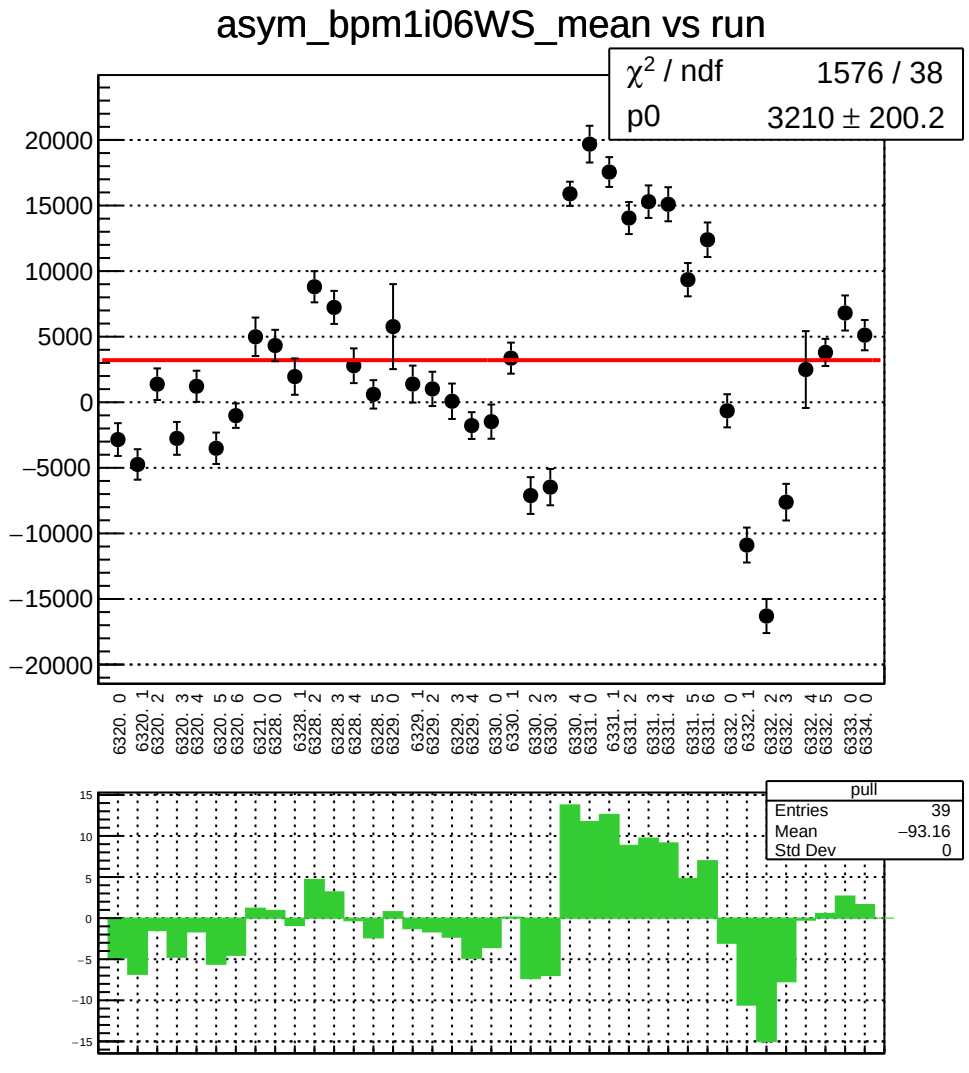

pull1D
Entries 39
Mean −0.9612
Std Dev 3.498
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

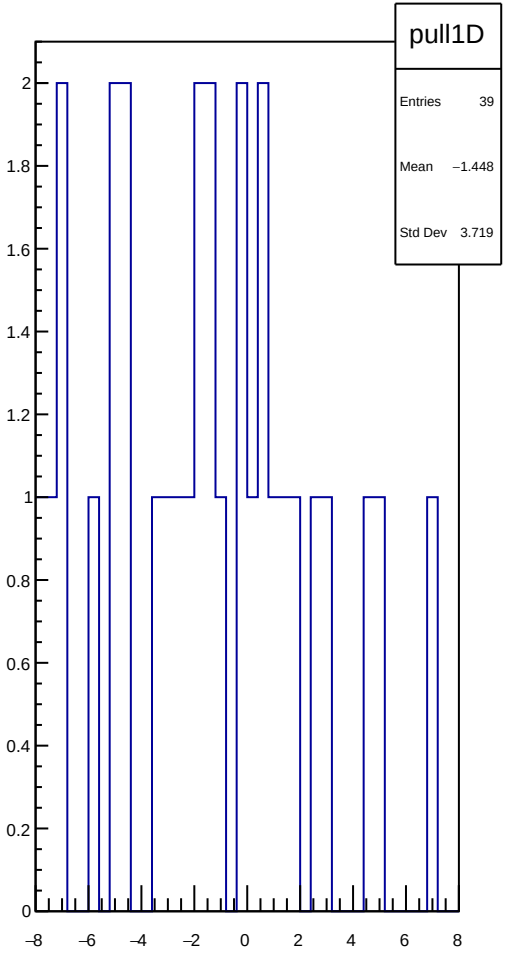

asym_bpm1i02WS_rms vs run
χ² / ndf 1.677e+04 / 38
p0 115 ± 0.1336
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

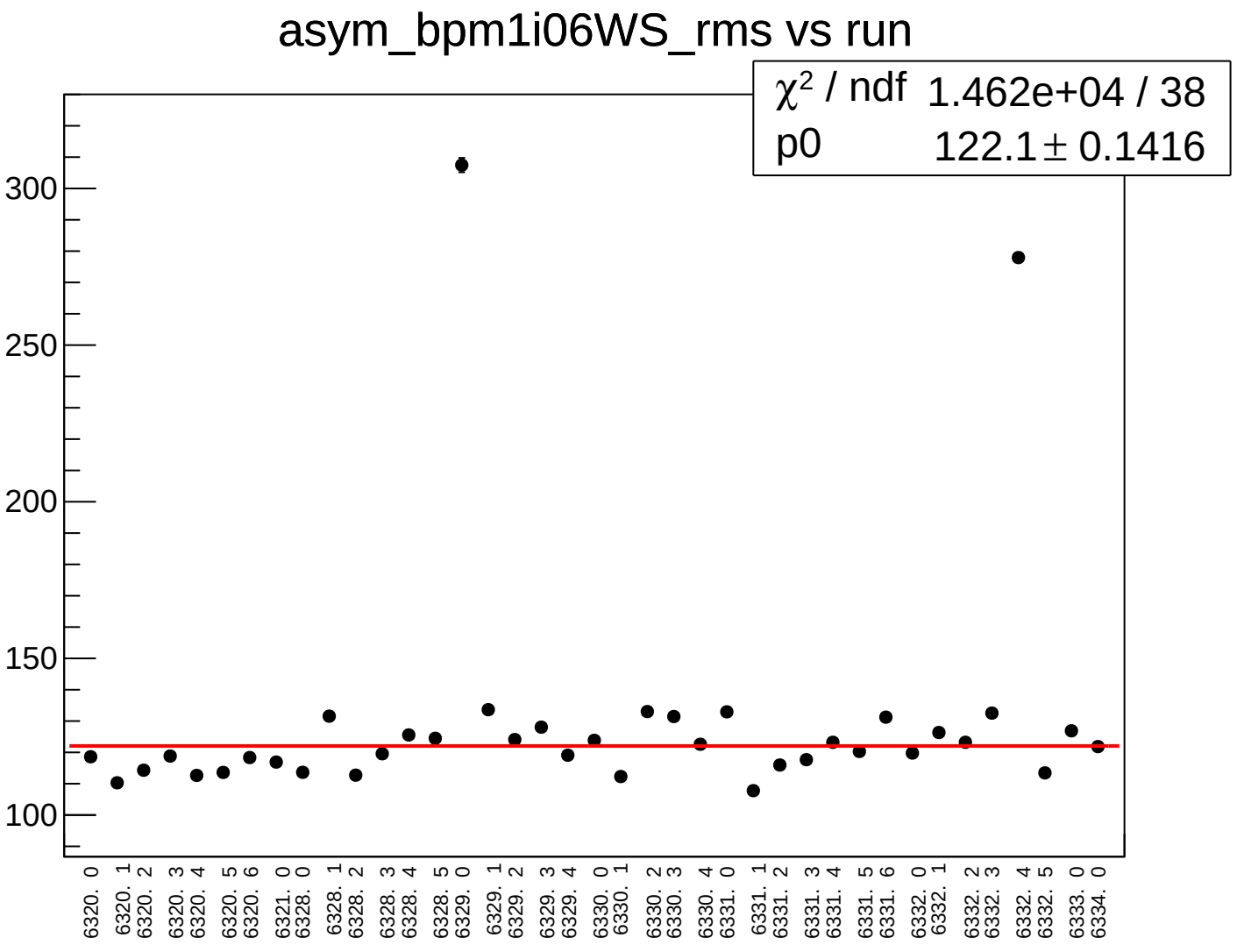

asym_bpm1i04WS_mean vs run
χ² / ndf 2316 / 38
p0 2924 ± 160.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −80.24
Std Dev 0
15
10
5
0
−5
−10
−15
−20

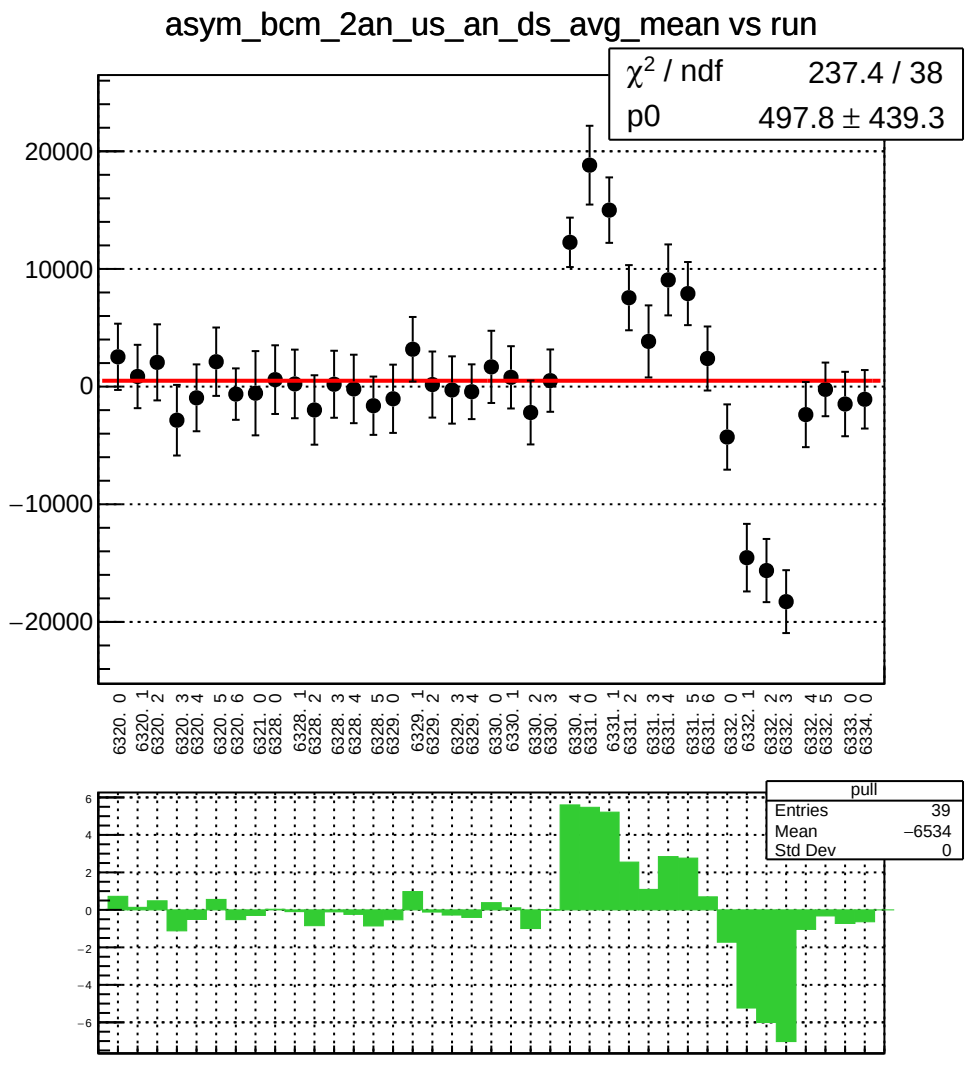

pull1D
Entries 39
Mean −1.202
Std Dev 3.154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

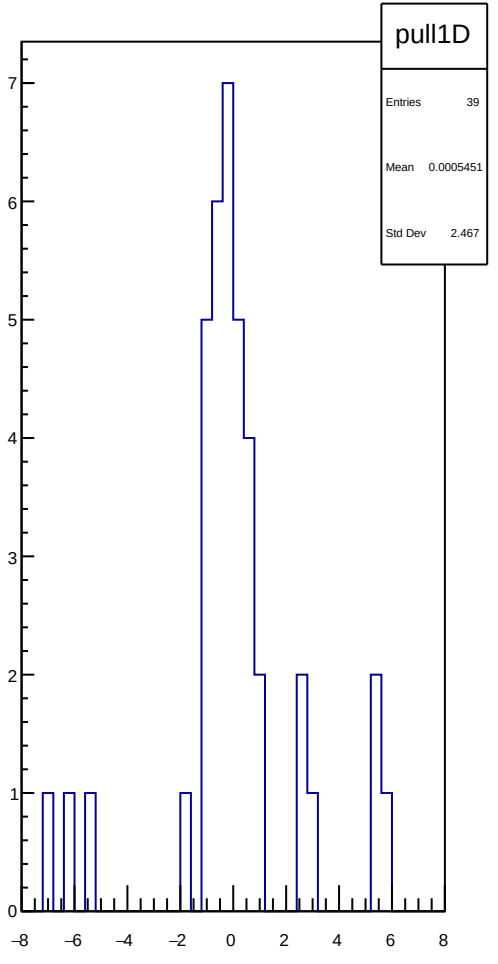

asym_bpm1i04WS_rms vs run
χ² / ndf 1.853e+04 / 38
p0 97.54 ± 0.1134
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

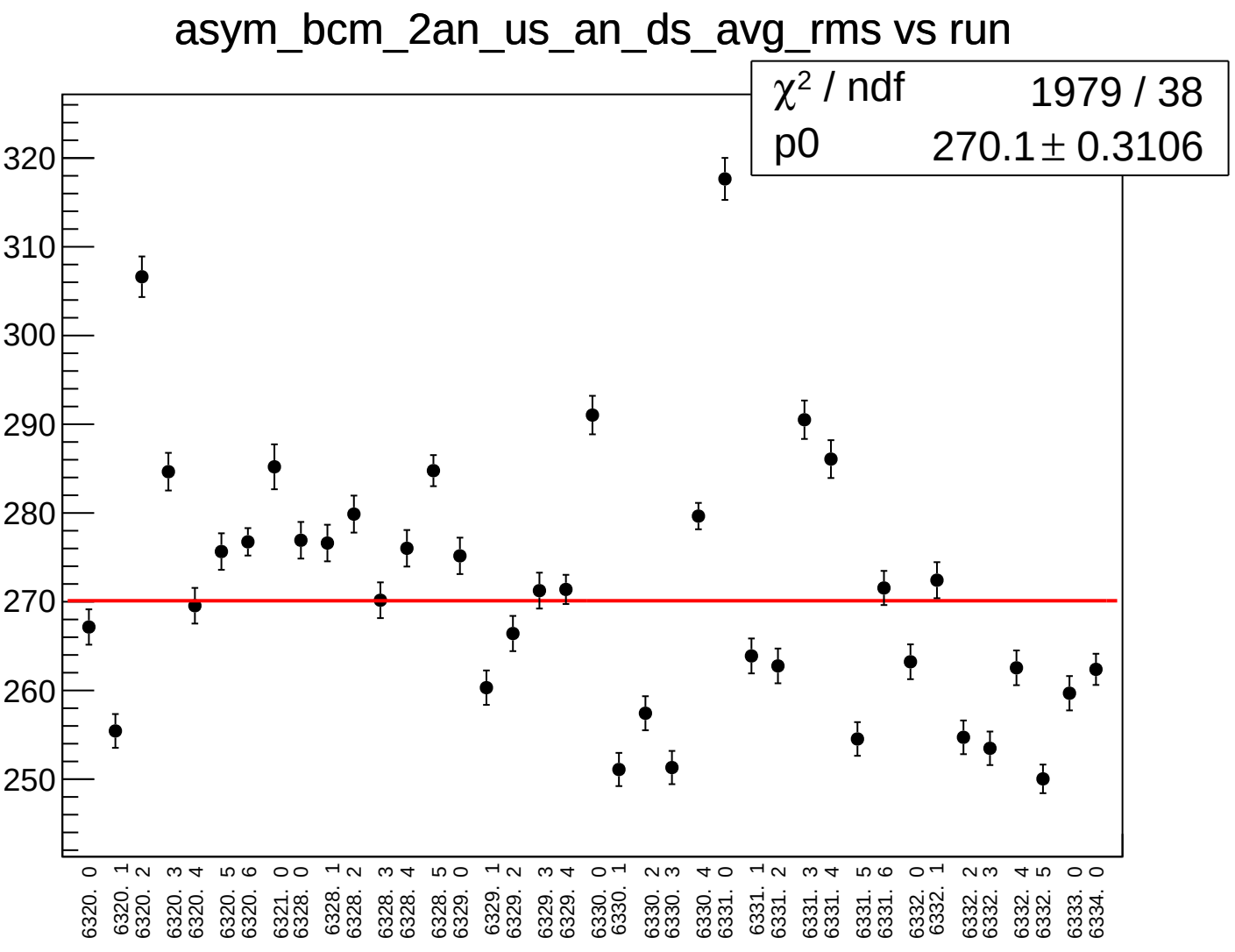

asym_bpm1i06WS_mean vs run
χ² / ndf 1576 / 38
p0 3210 ± 200.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −93.16
Std Dev 0
15
10
5
0
−5
−10
−15

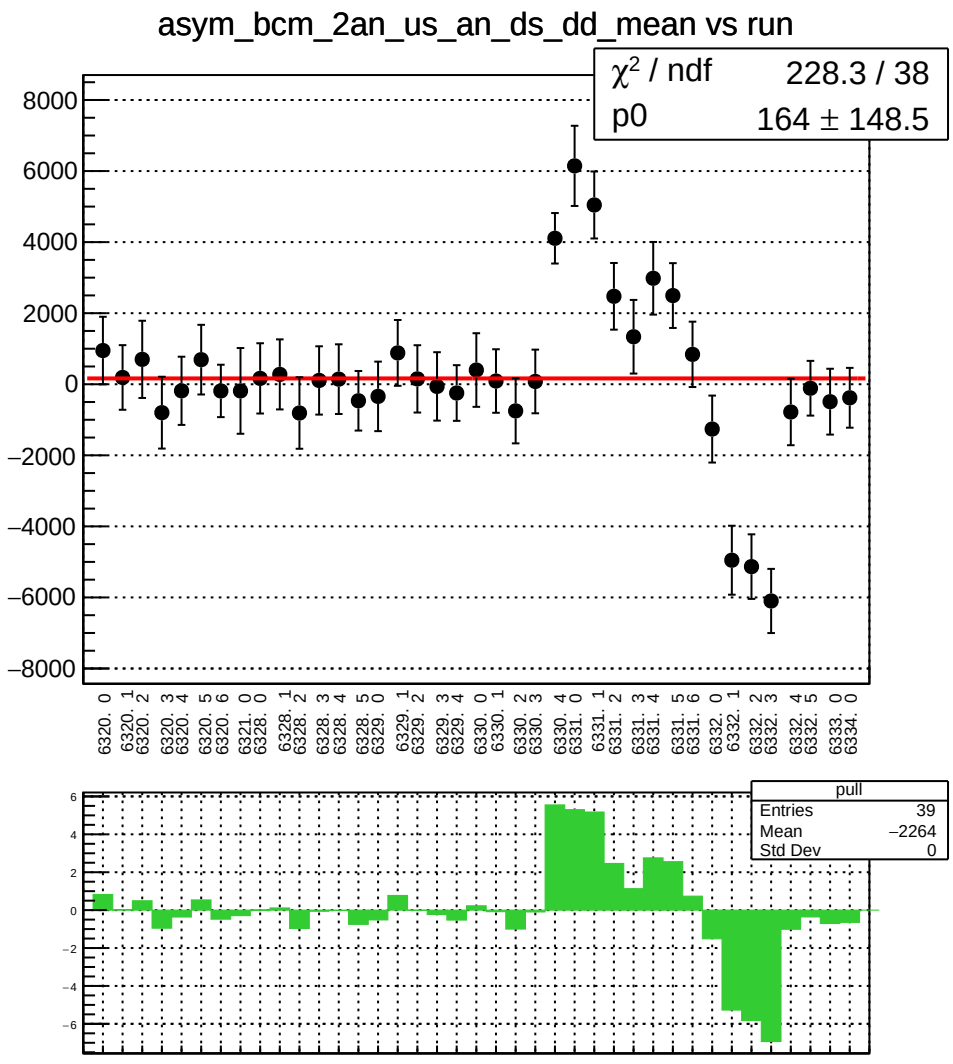

pull1D
Entries 39
Mean −1.448
Std Dev 3.719
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

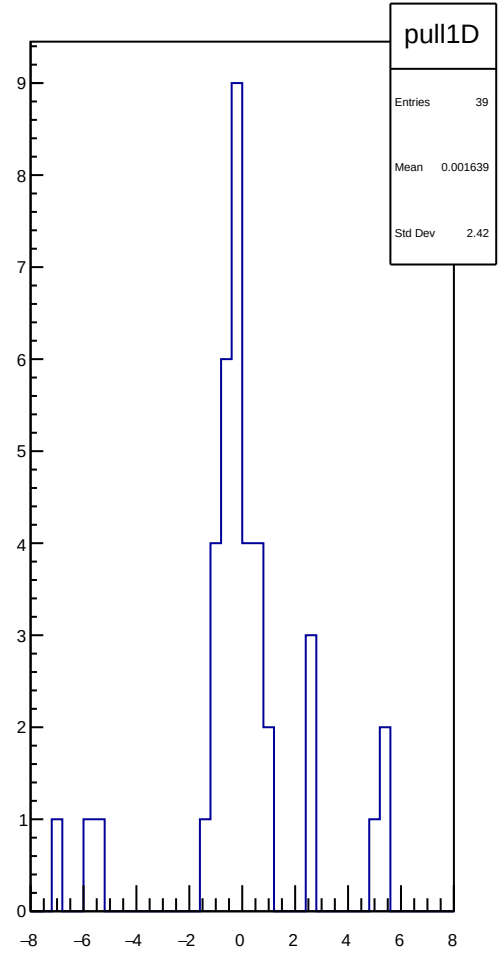

asym_bpm1i06WS_rms vs run
χ² / ndf 1.462e+04 / 38
p0 122.1 ± 0.1416
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

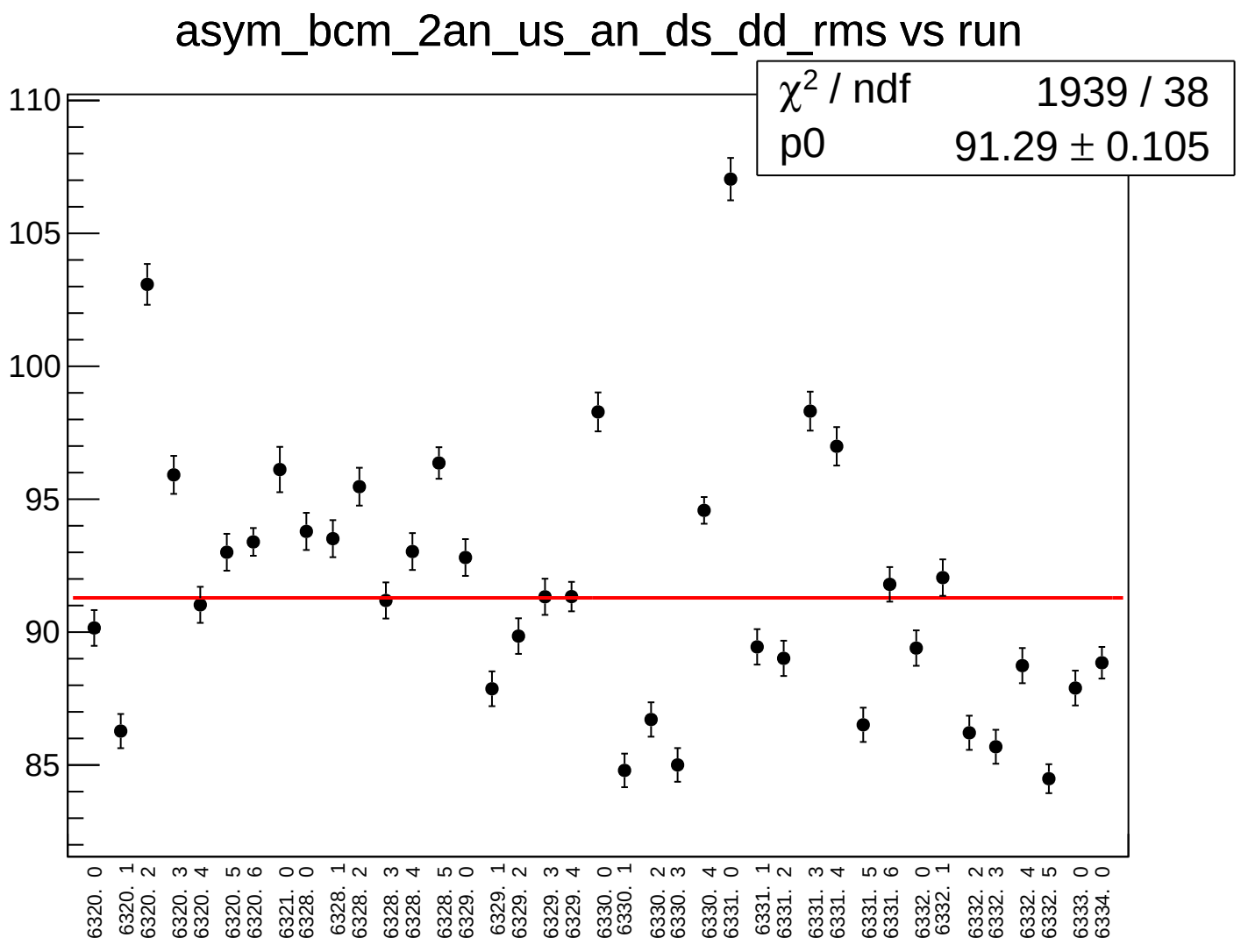

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 237.4 / 38
p0 497.8 ± 439.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6534
Std Dev 0
6
4
2
0
−2
−4
−6

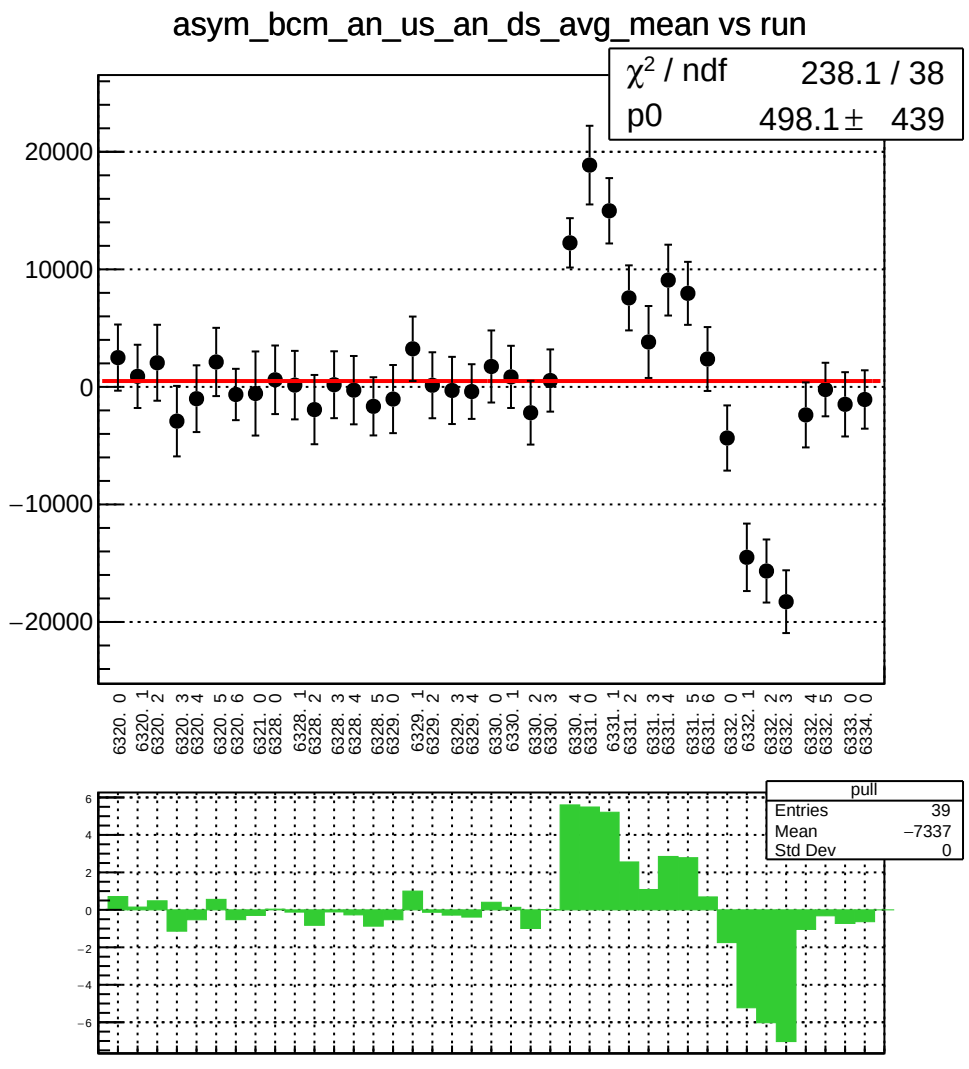

pull1D
Entries 39
Mean 0.0005451
Std Dev 2.467
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

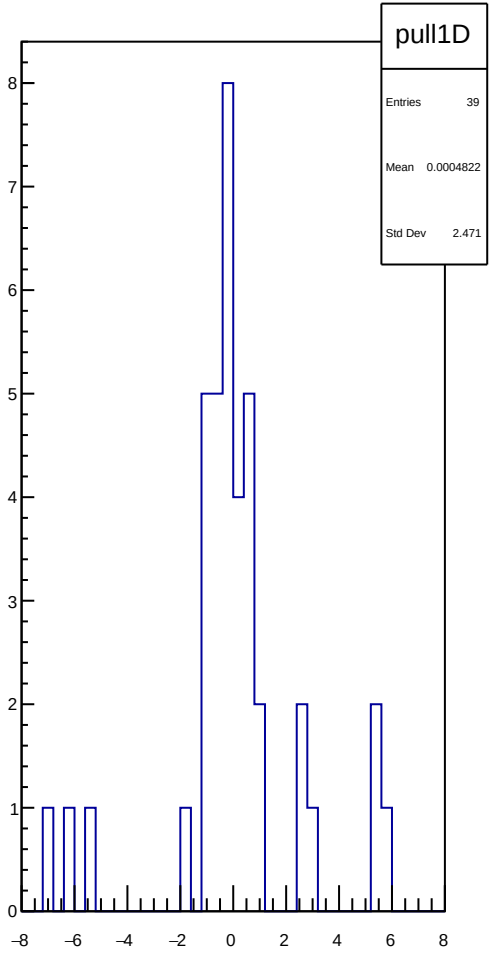

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1979 / 38
p0 270.1 ± 0.3106
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

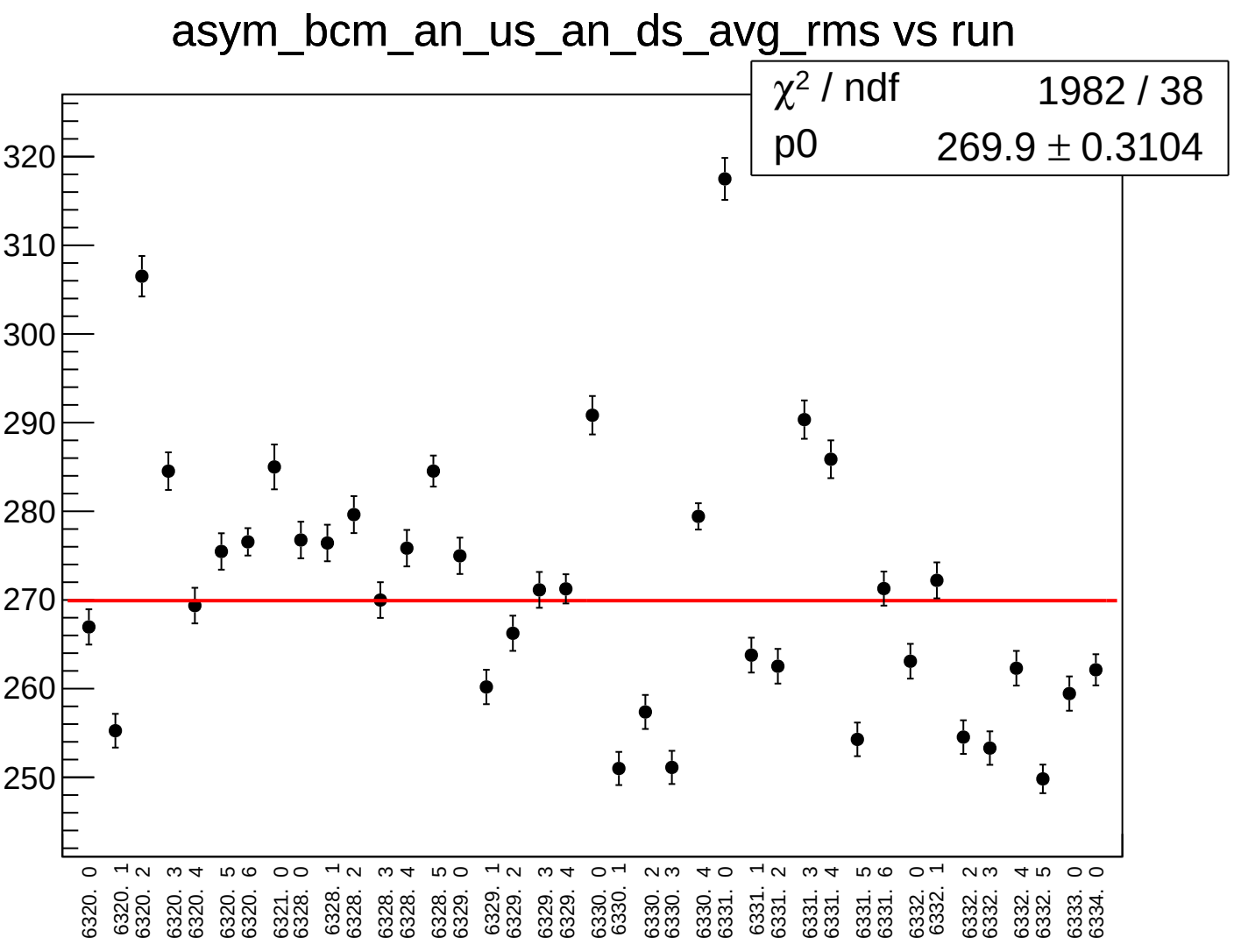

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 228.3 / 38
p0 164 ± 148.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2264
Std Dev 0
6
4
2
0
−2
−4
−6

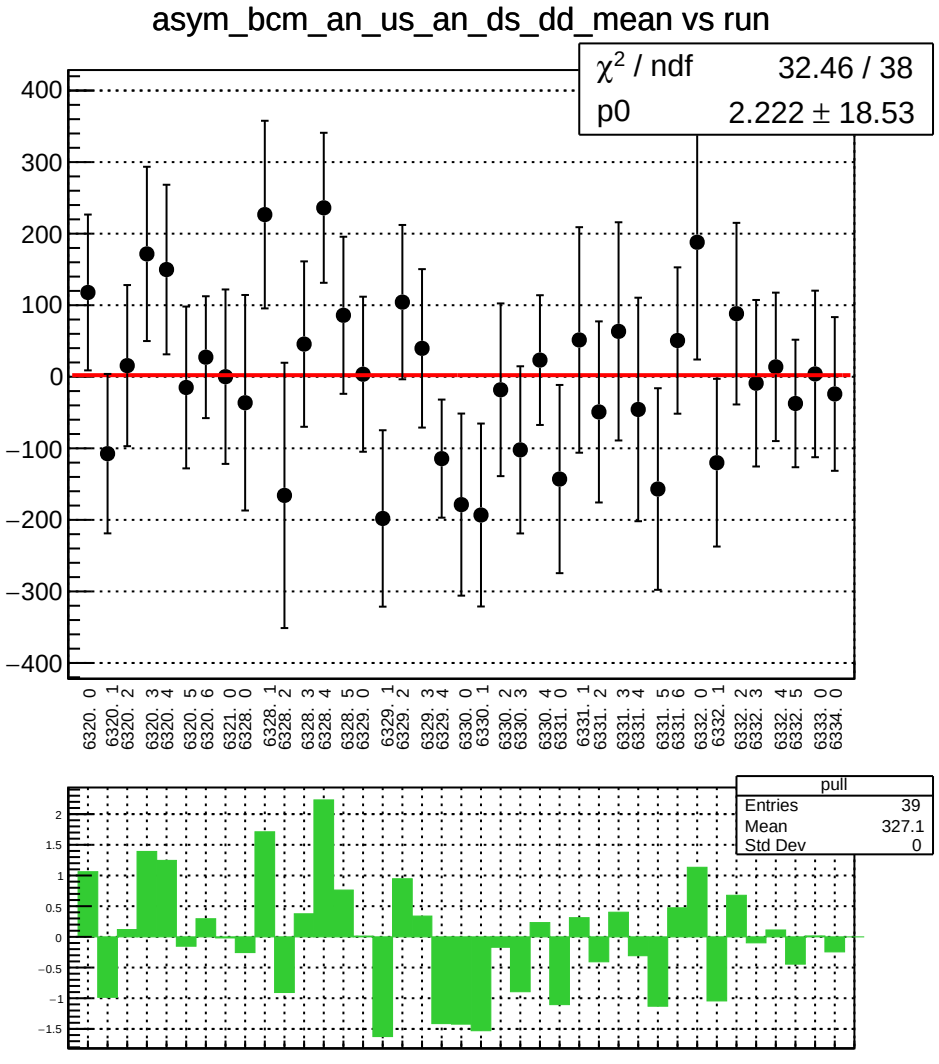

pull1D
Entries 39
Mean 0.001639
Std Dev 2.42
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

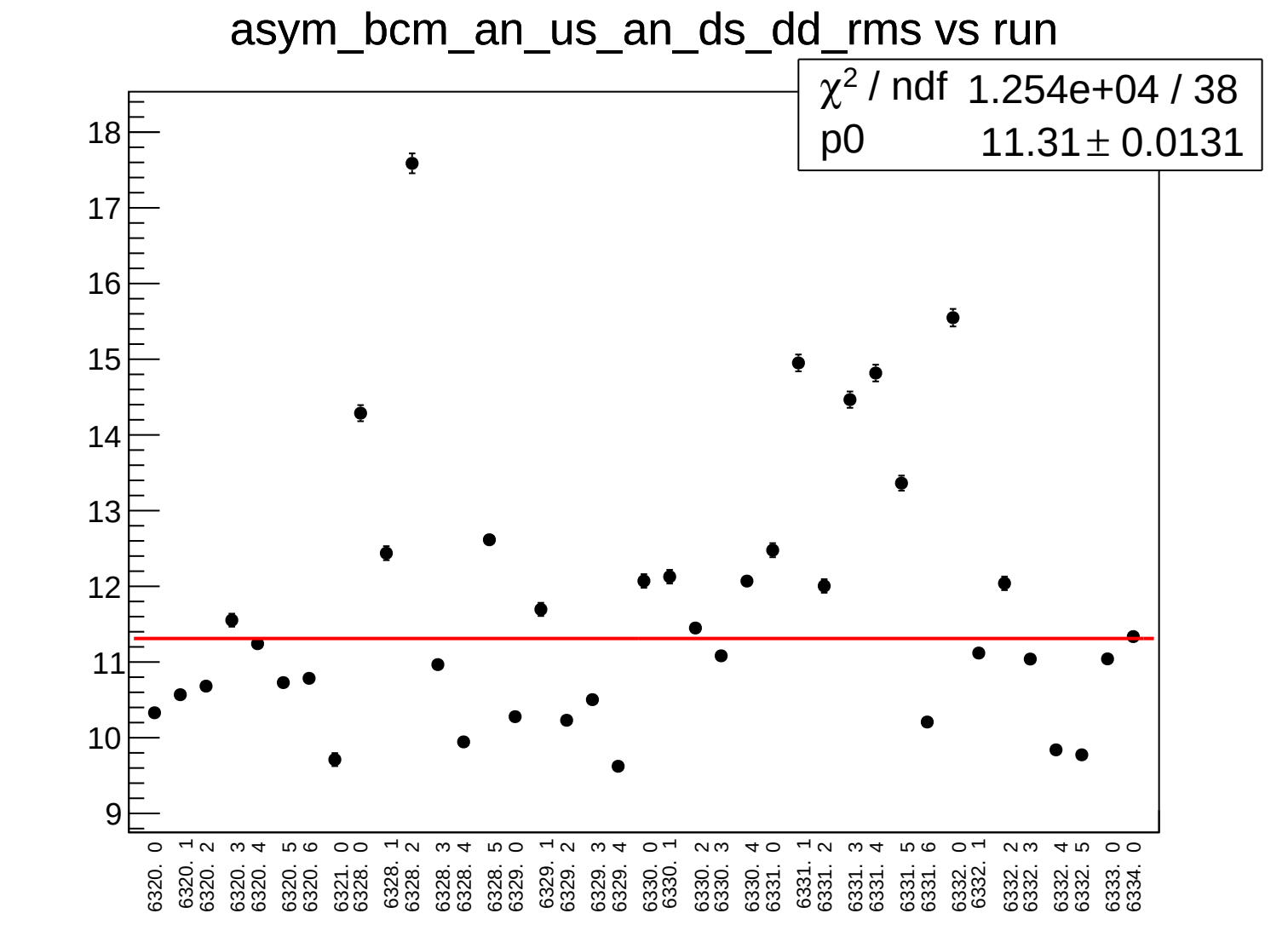

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1939 / 38
p0 91.29 ± 0.105
110
105
100
95
90
85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

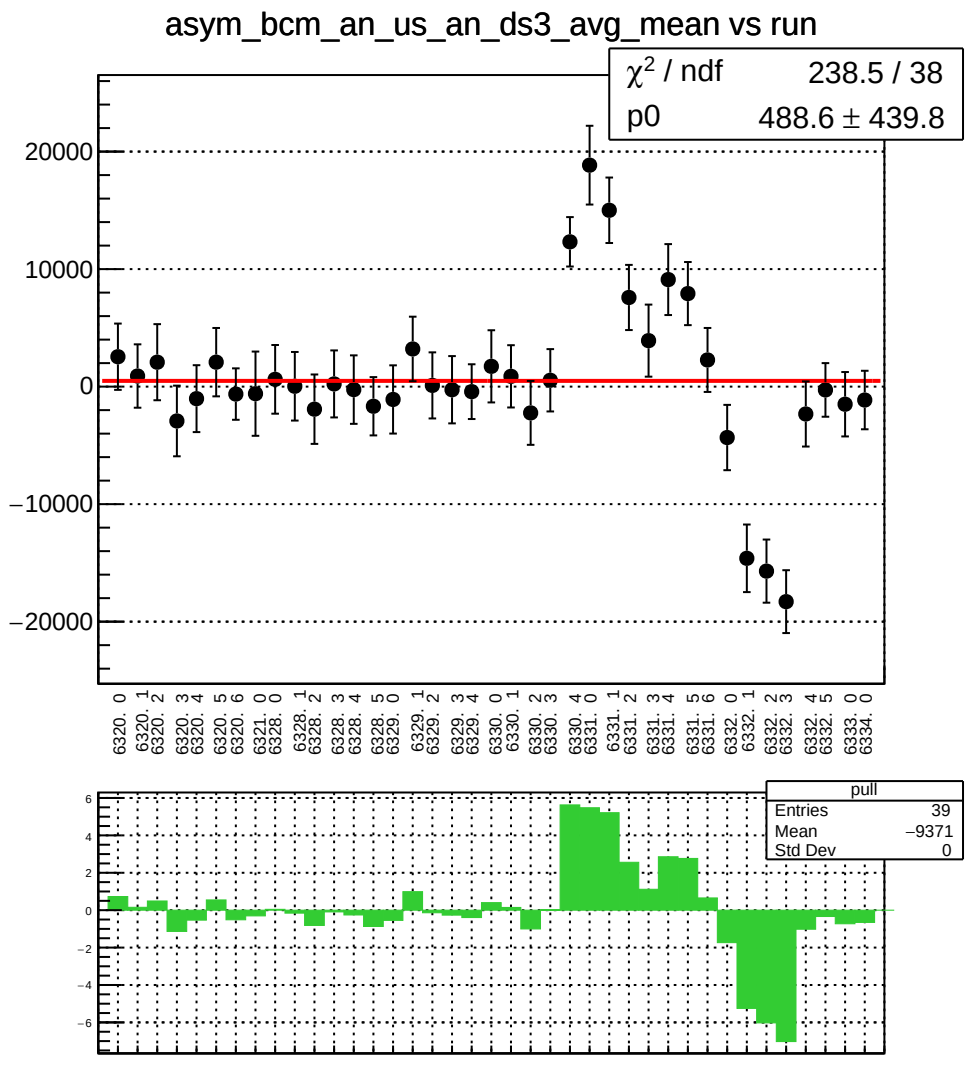

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 238.1 / 38
p0 498.1 ± 439
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7337
Std Dev 0
6
4
2
0
−2
−4
−6

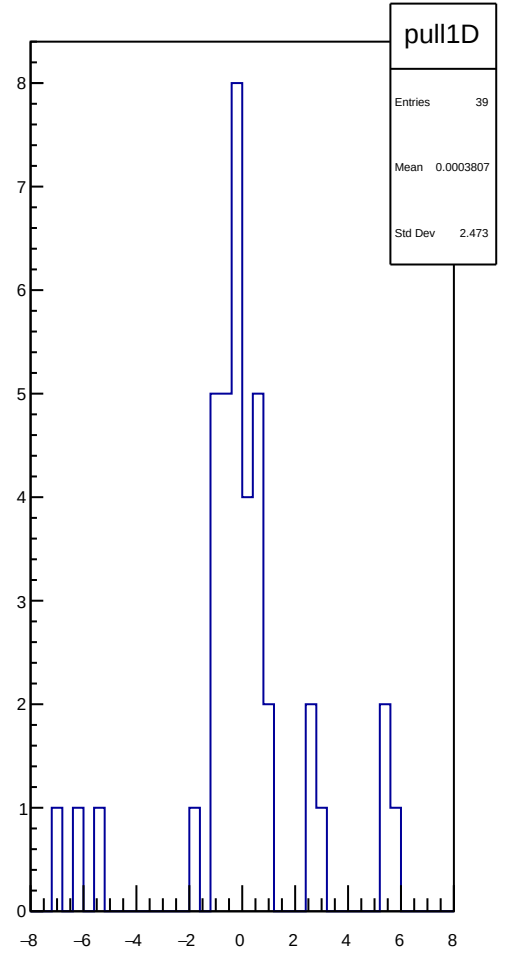

pull1D
Entries 39
Mean 0.0004822
Std Dev 2.471
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

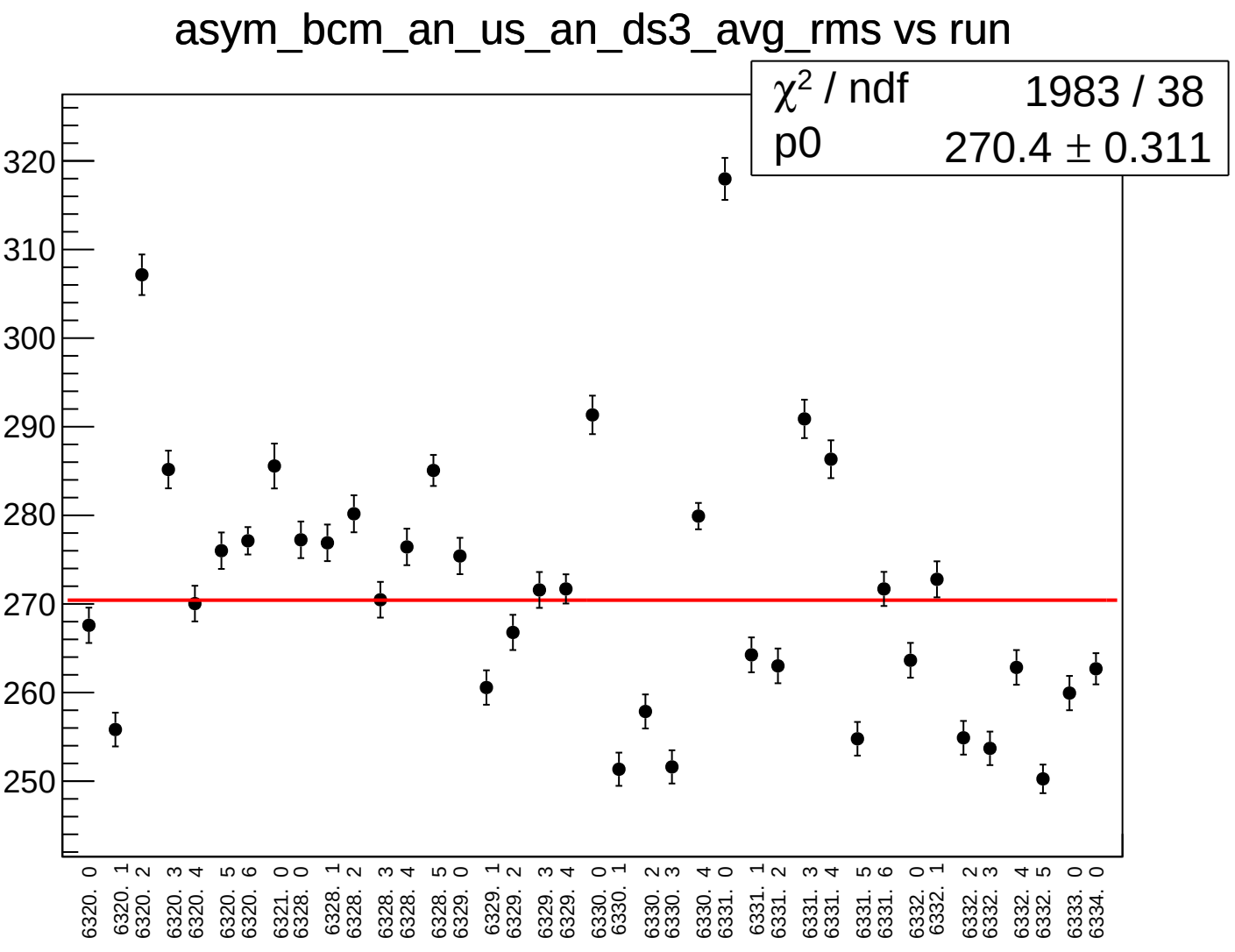

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1982 / 38
p0 269.9 ± 0.3104
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

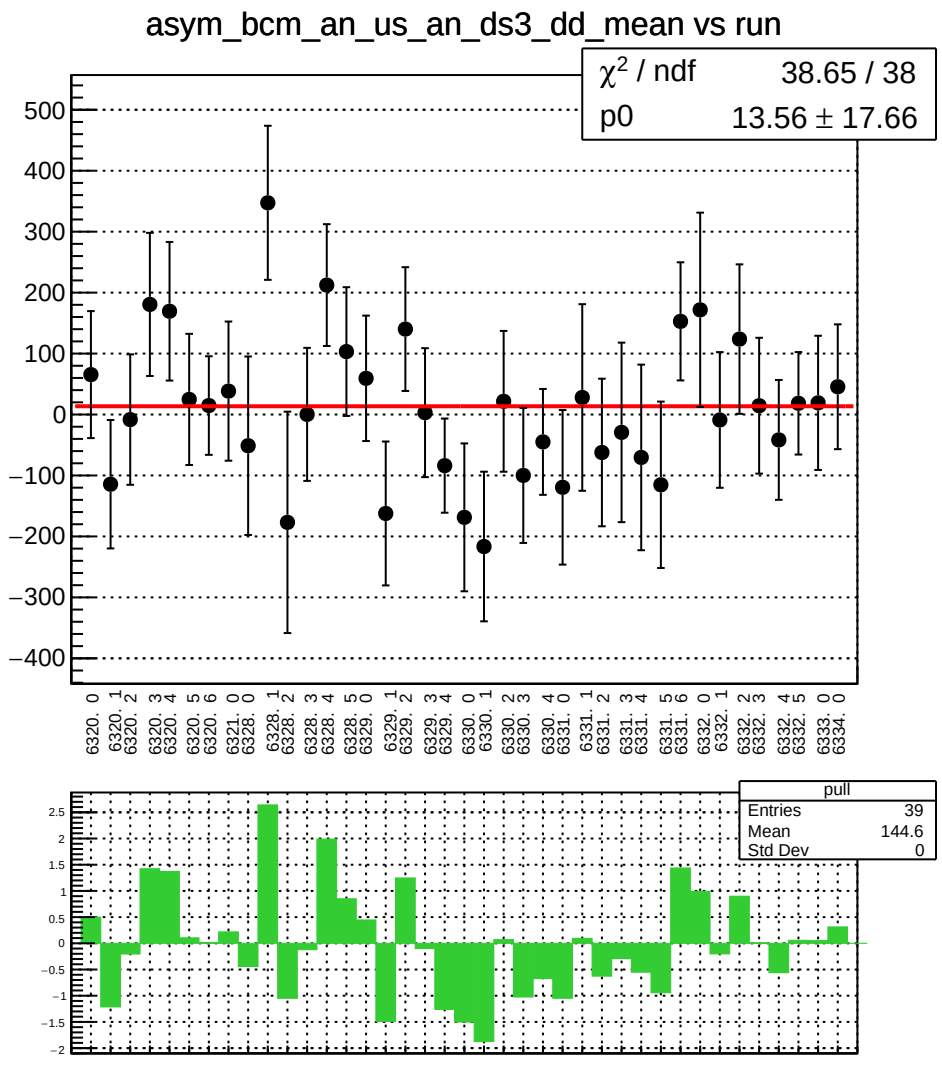

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 32.46 / 38
p0 2.222 ± 18.53
pull
Entries 39
Mean 327.1
Std Dev 0
pull1D
Entries 39
Mean −0.007481
Std Dev 0.9123

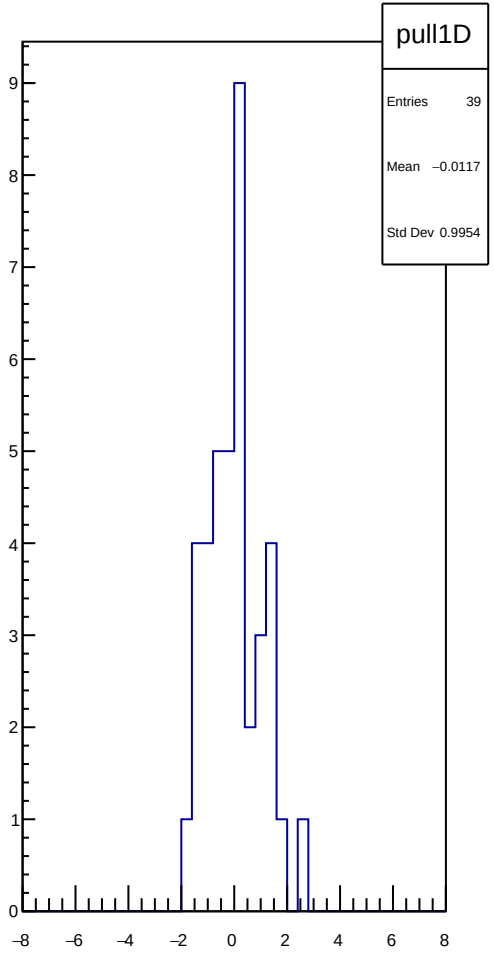

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.254e+04 / 38
p0 11.31 ± 0.0131
18
17
16
15
14
13
12
11
10
9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

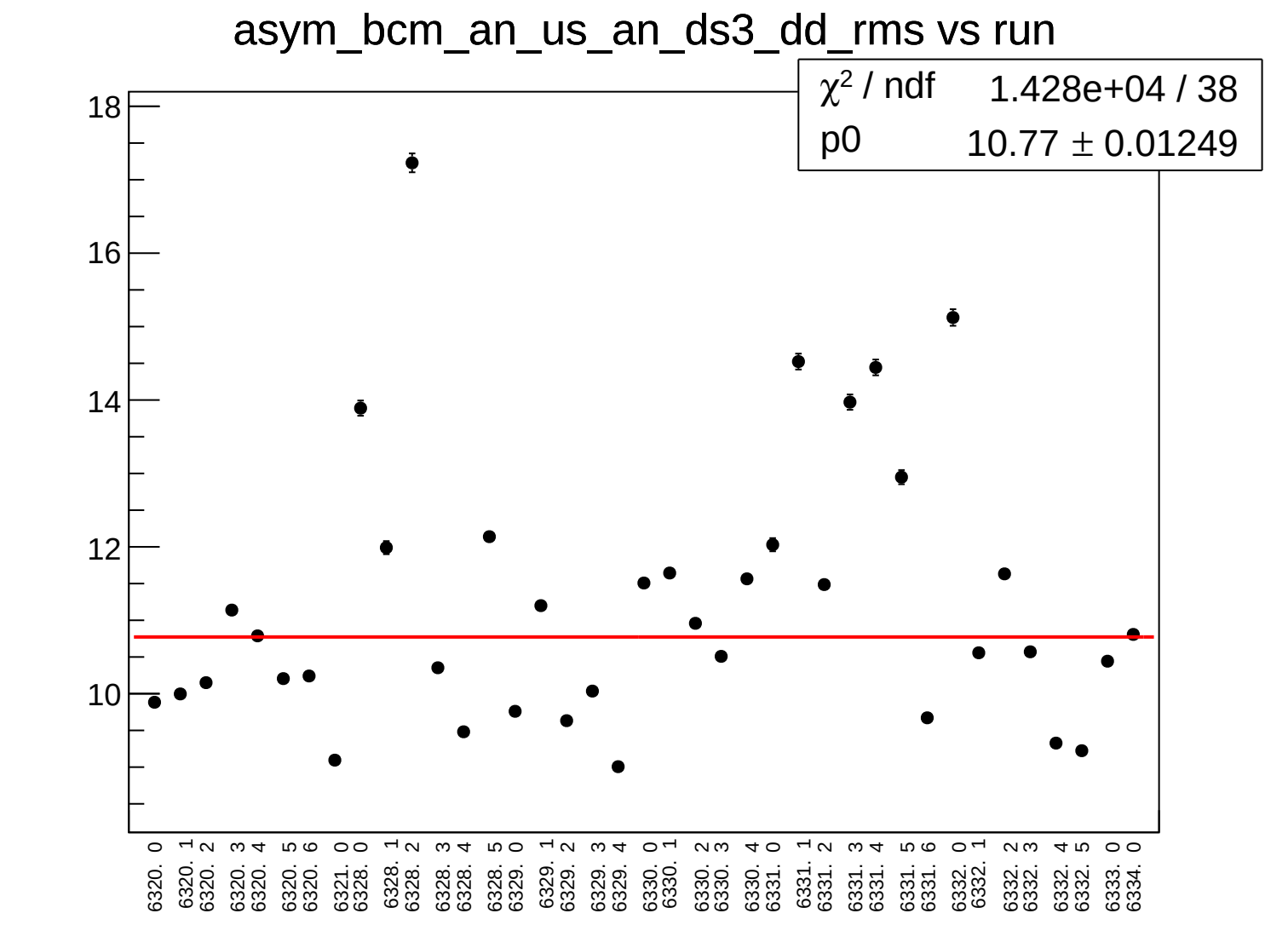

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 238.5 / 38
p0 488.6 ± 439.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9371
Std Dev 0
6
4
2
0
−2
−4
−6

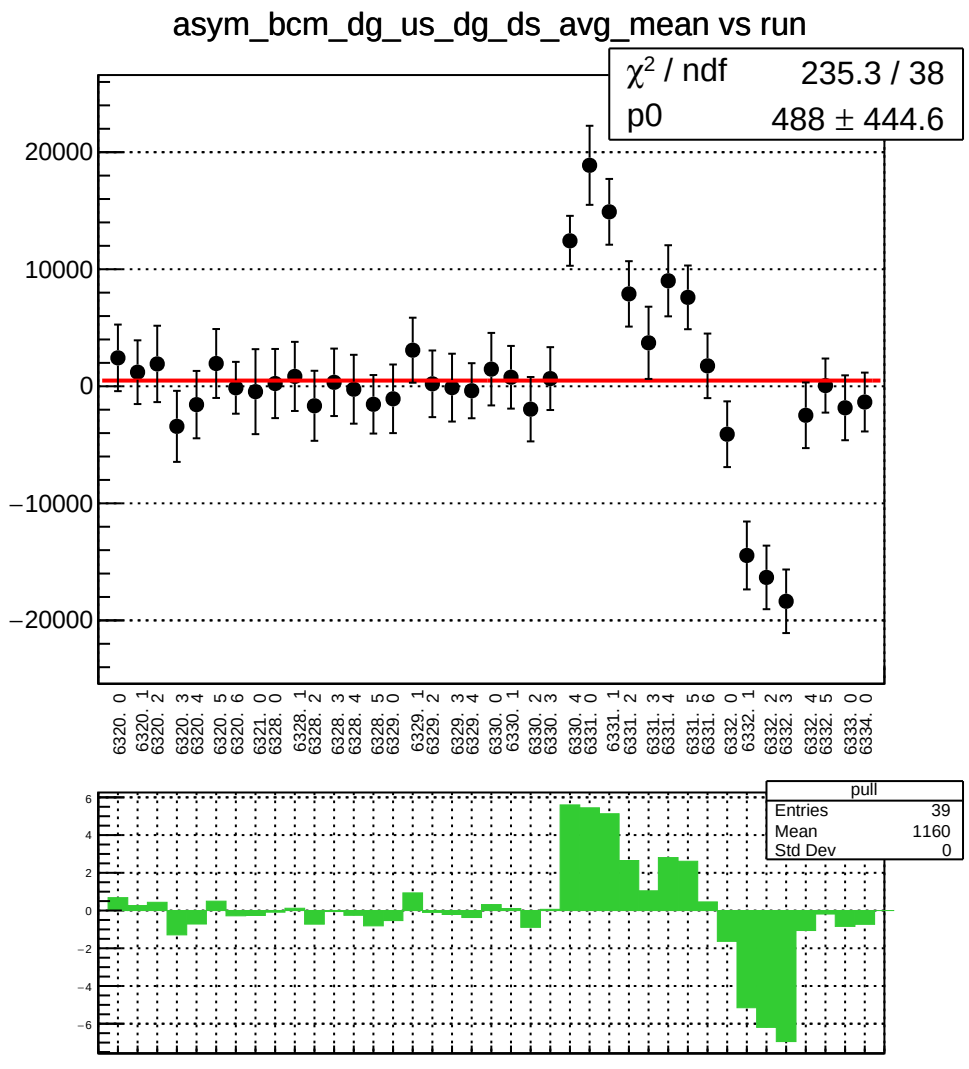

pull1D
Entries 39
Mean 0.0003807
Std Dev 2.473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

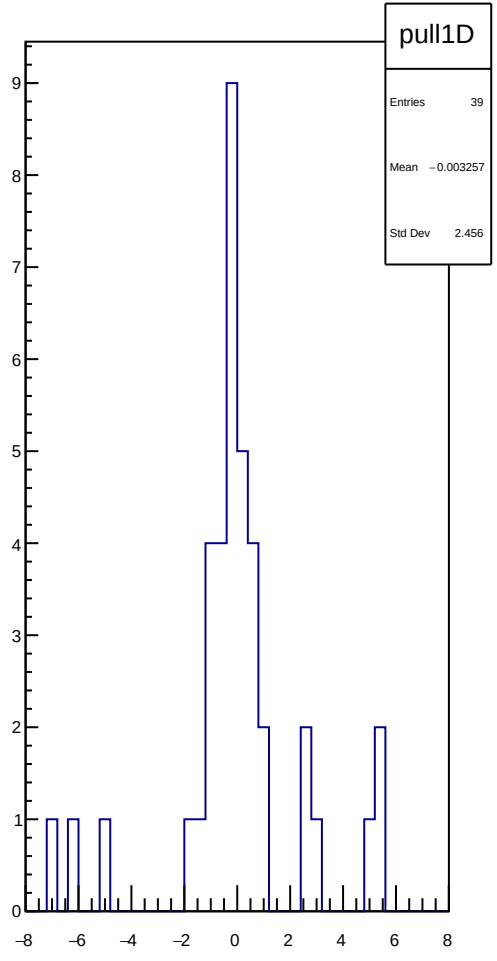

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1983 / 38
p0 270.4 ± 0.311
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

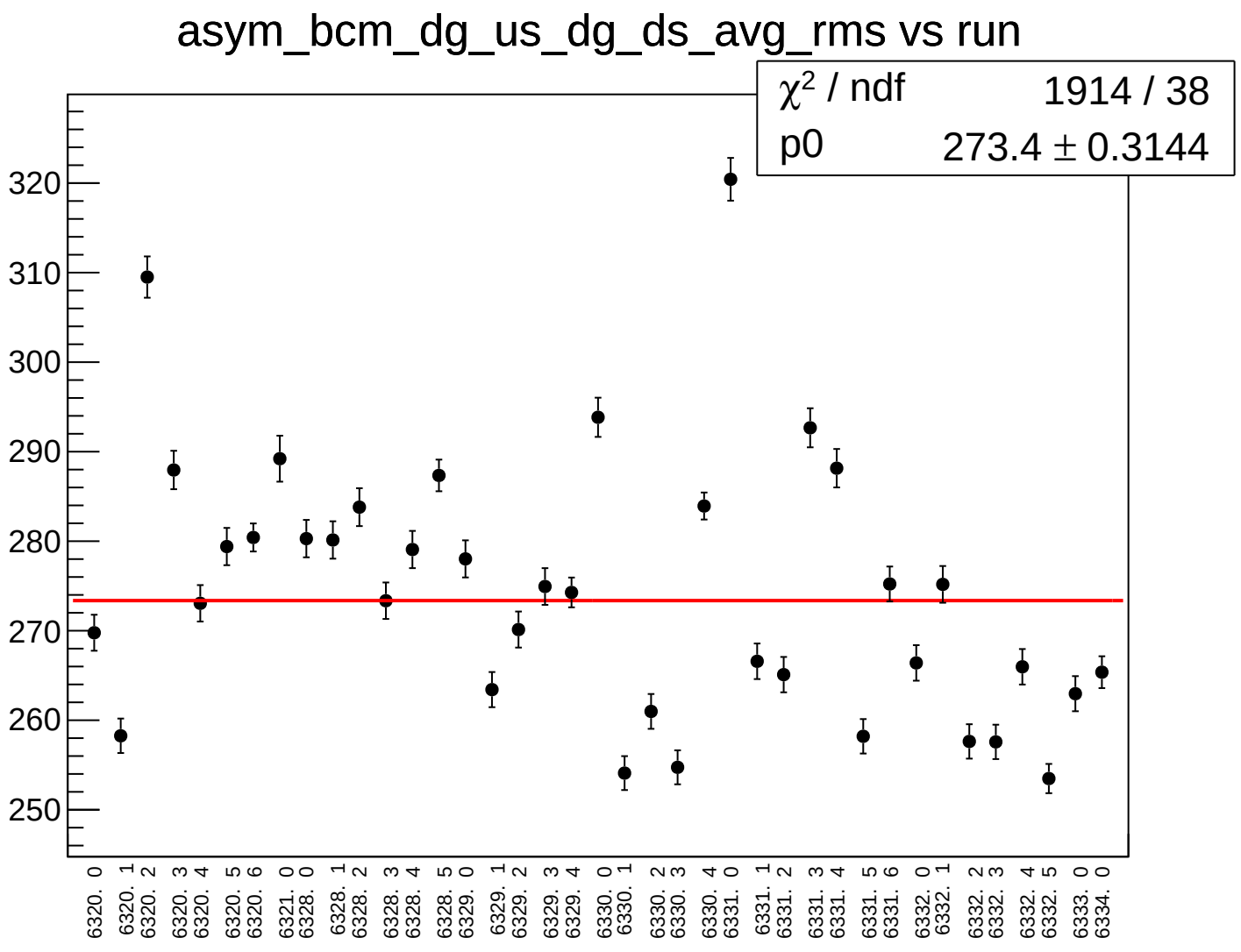

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 38.65 / 38
p0 13.56 ± 17.66
pull
Entries 39
Mean 144.6
Std Dev 0

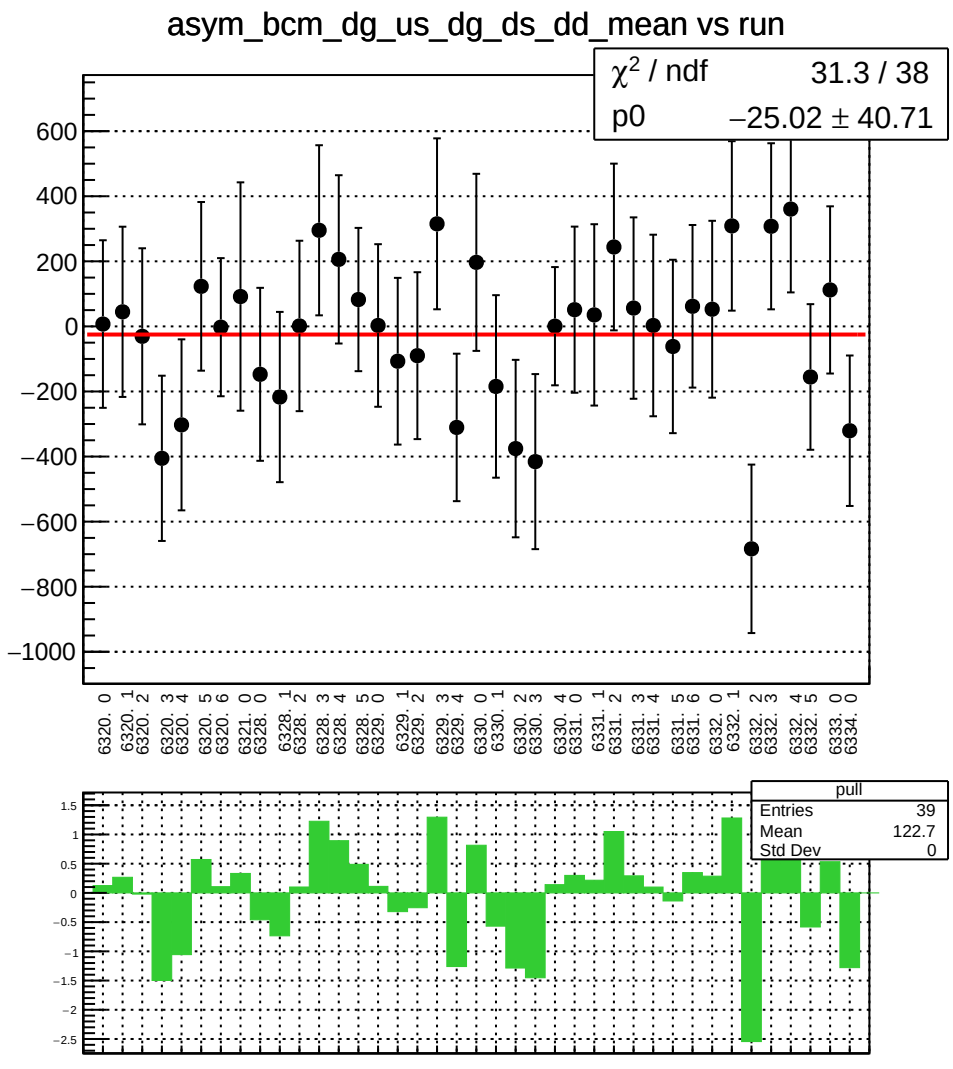

pull1D
Entries 39
Mean −0.0117
Std Dev 0.9954

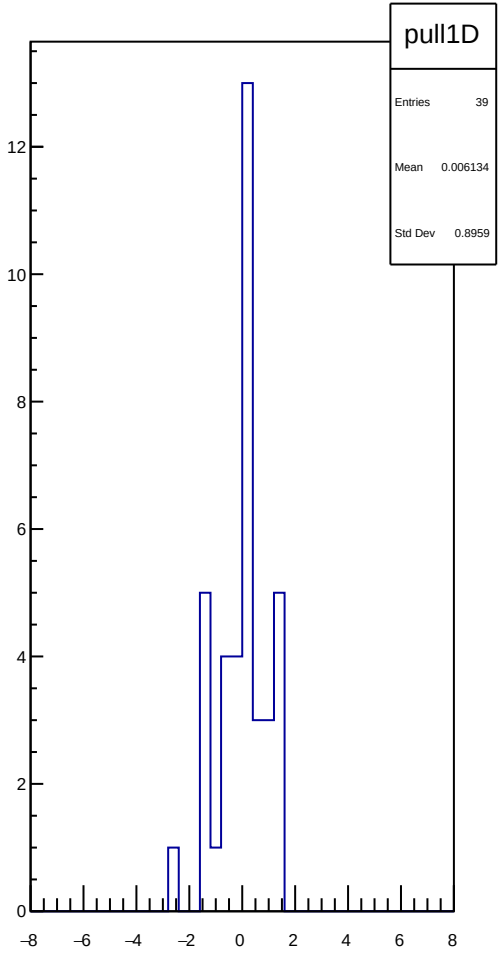

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.428e+04 / 38
p0 10.77 ± 0.01249
18
16
14
12
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

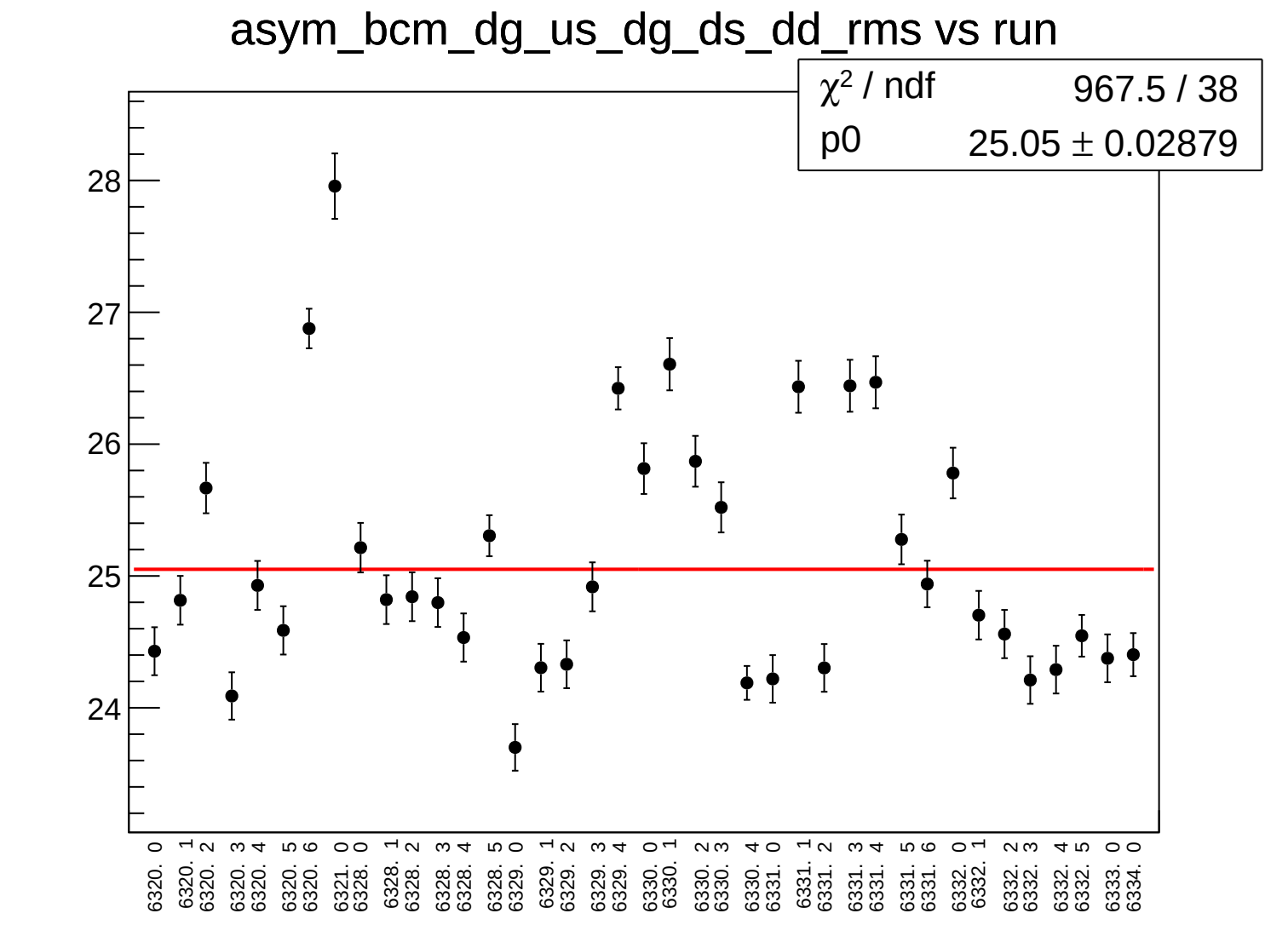

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 235.3 / 38
p0 488 ± 444.6
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1160
Std Dev 0
6
4
2
0
−2
−4
−6

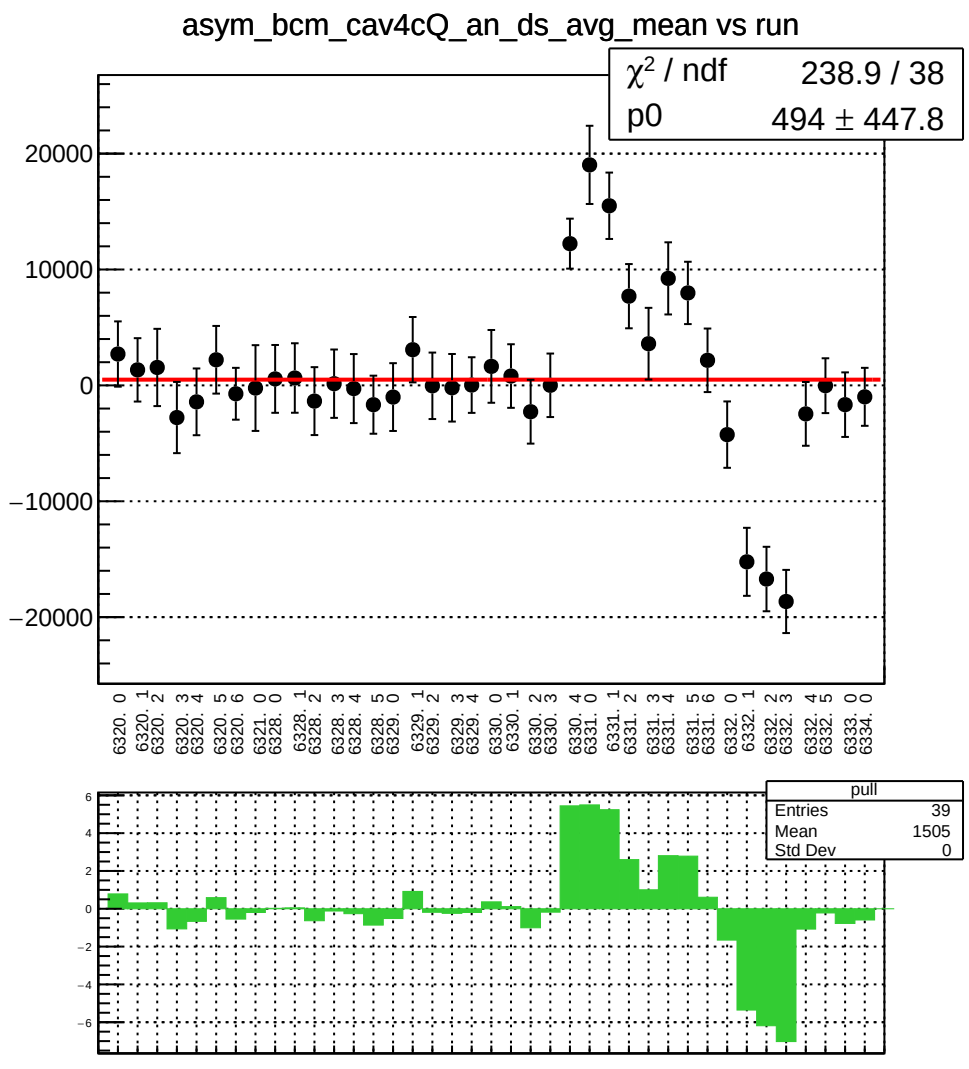

pull1D
Entries 39
Mean −0.003257
Std Dev 2.456
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

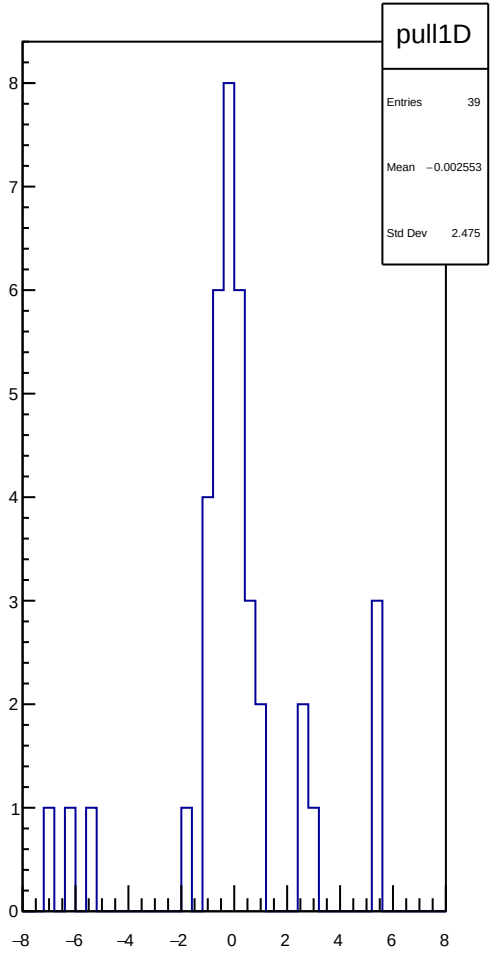

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1914 / 38
p0 273.4 ± 0.3144
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

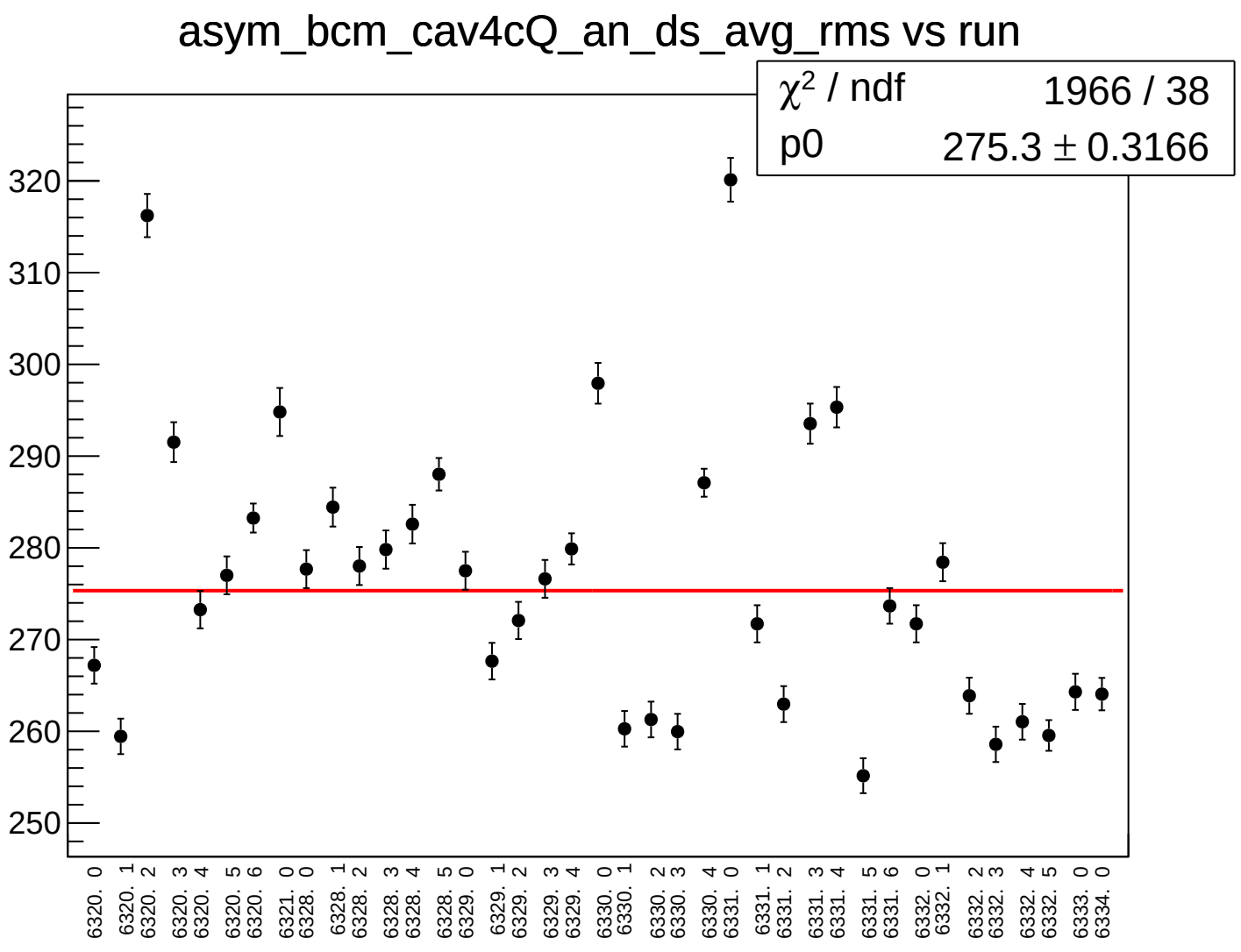

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 31.3 / 38
p0 −25.02 ± 40.71
600
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 122.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

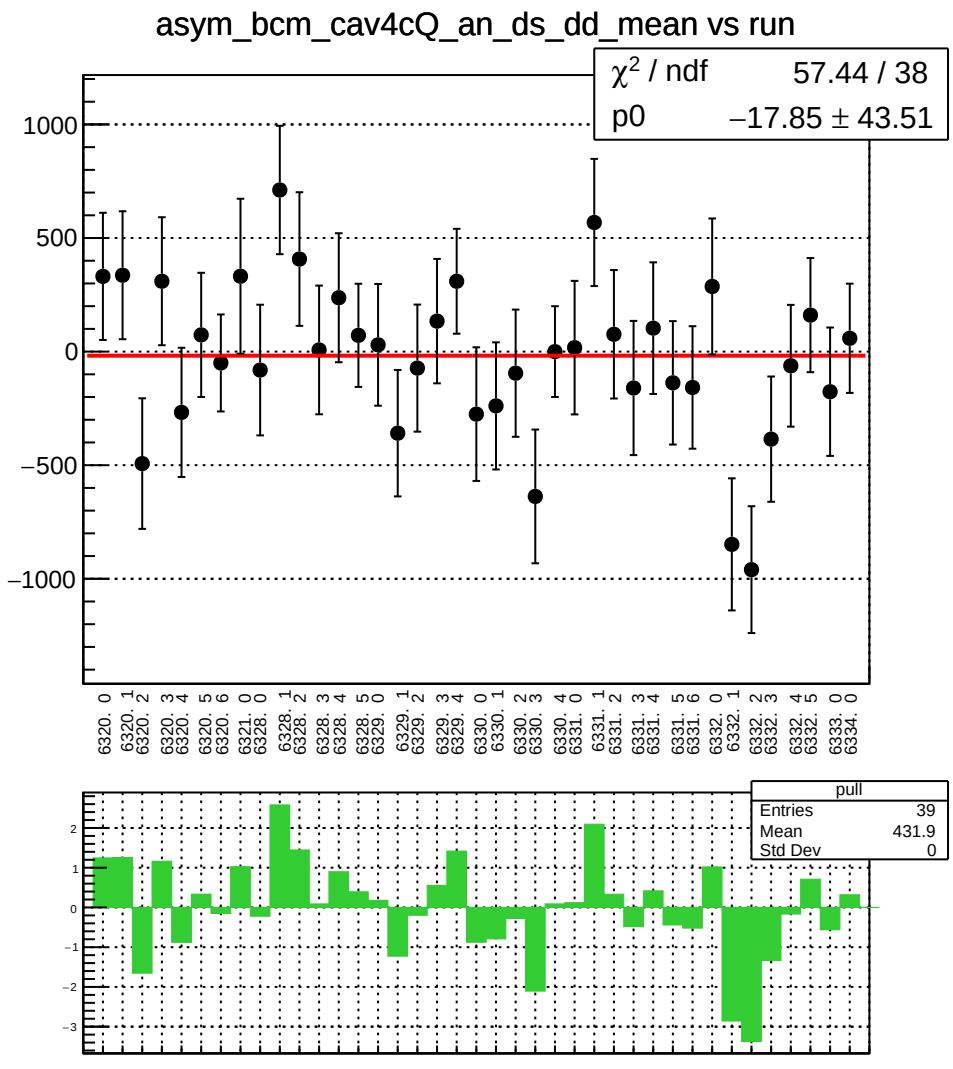

pull1D
Entries 39
Mean 0.006134
Std Dev 0.8959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

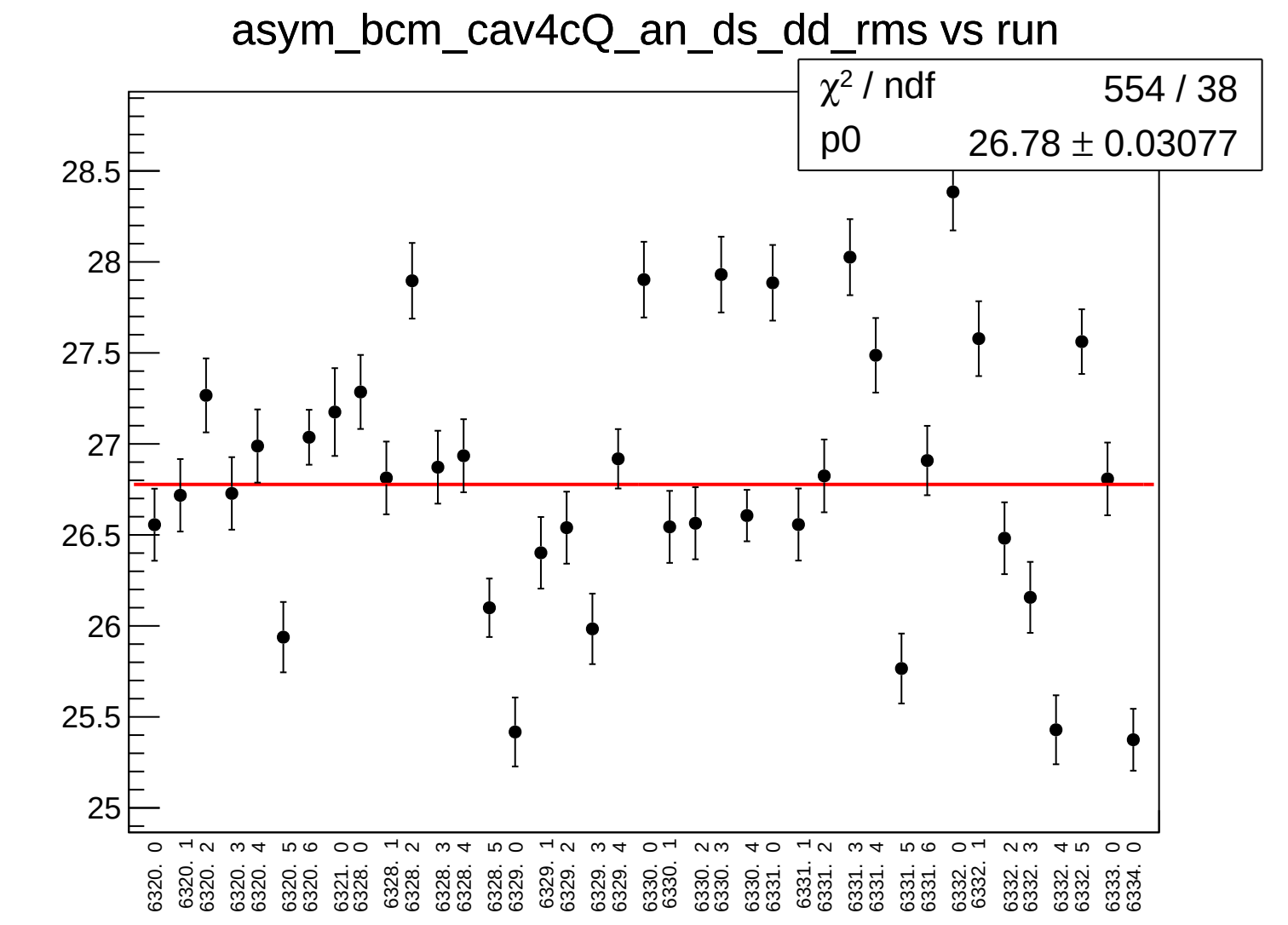

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 967.5 / 38
p0 25.05 ± 0.02879
28
27
26
25
24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

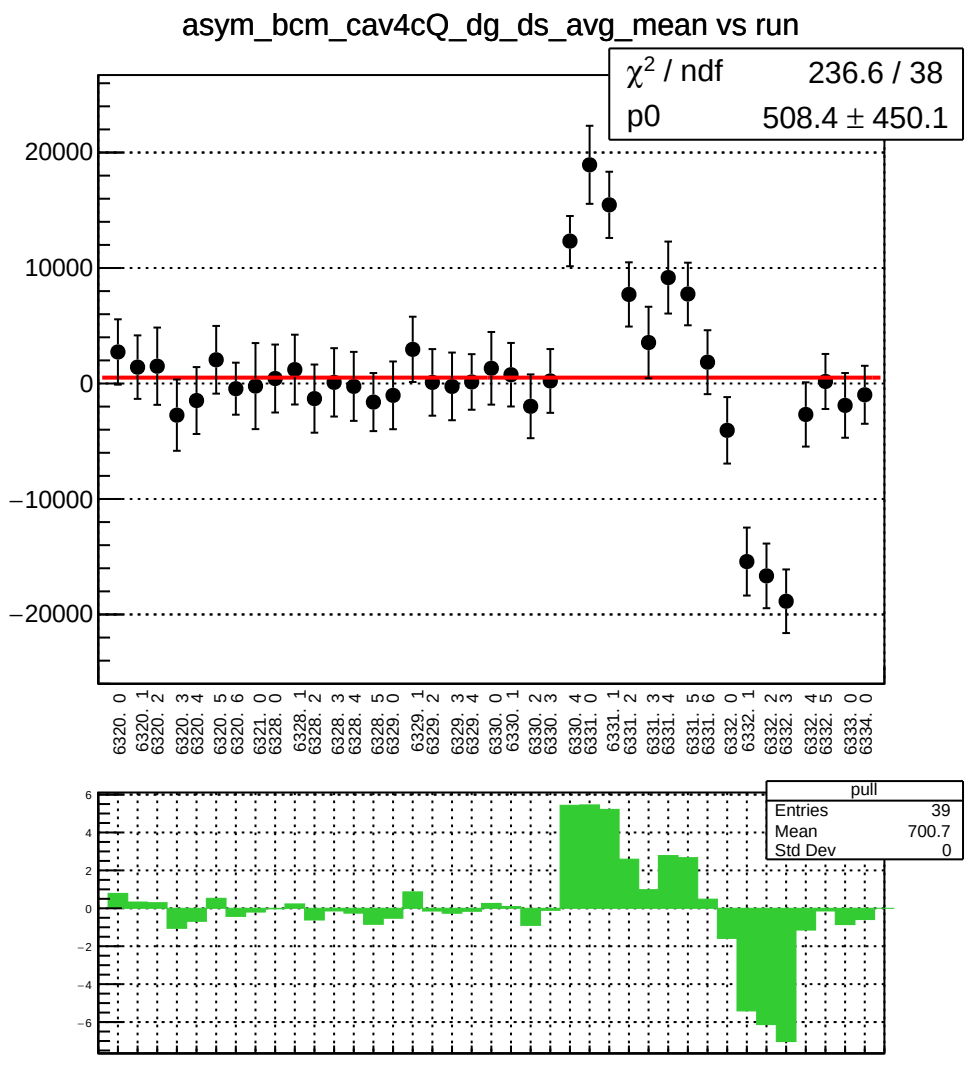

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 238.9 / 38
p0 494 ± 447.8
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1505
Std Dev 0
6
4
2
0
−2
−4
−6

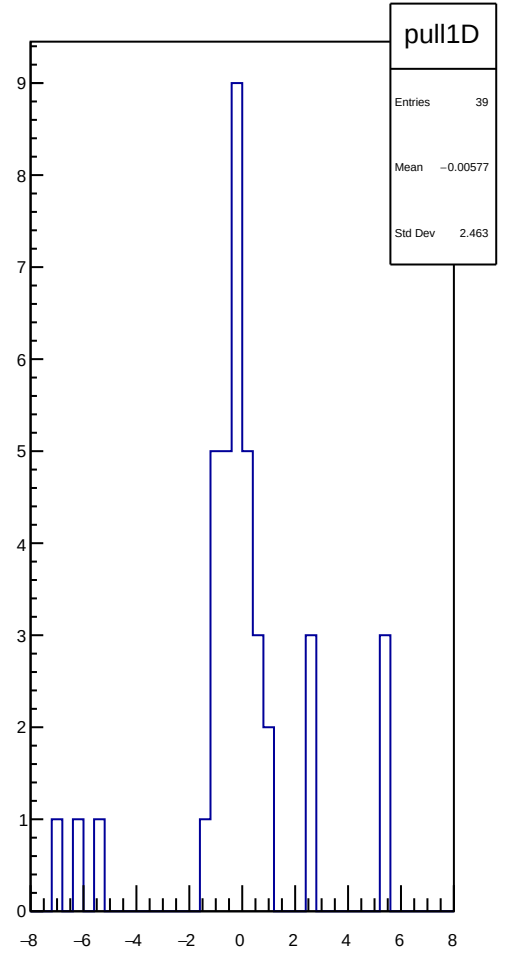

pull1D
Entries 39
Mean −0.002553
Std Dev 2.475
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

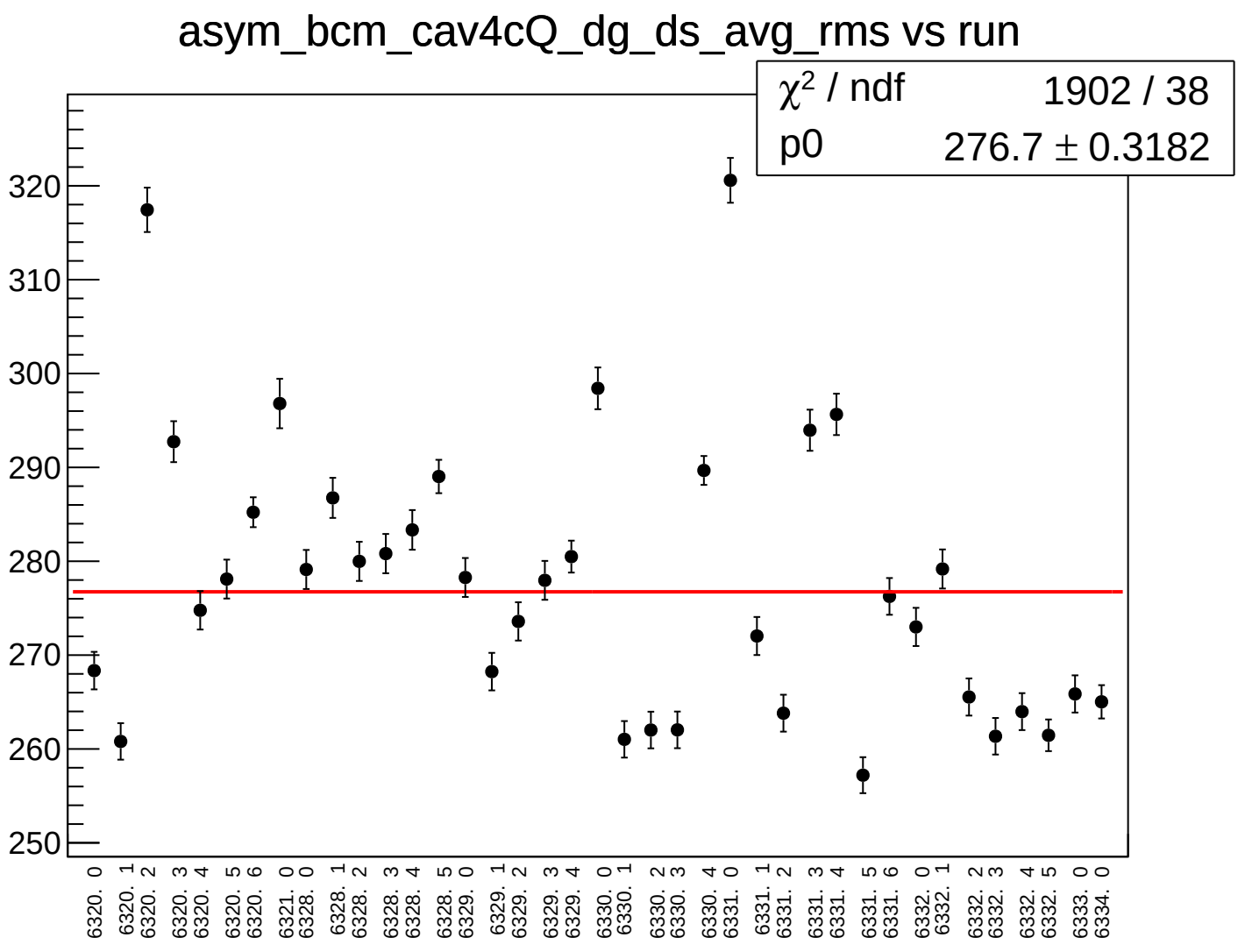

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1966 / 38
p0 275.3 ± 0.3166
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

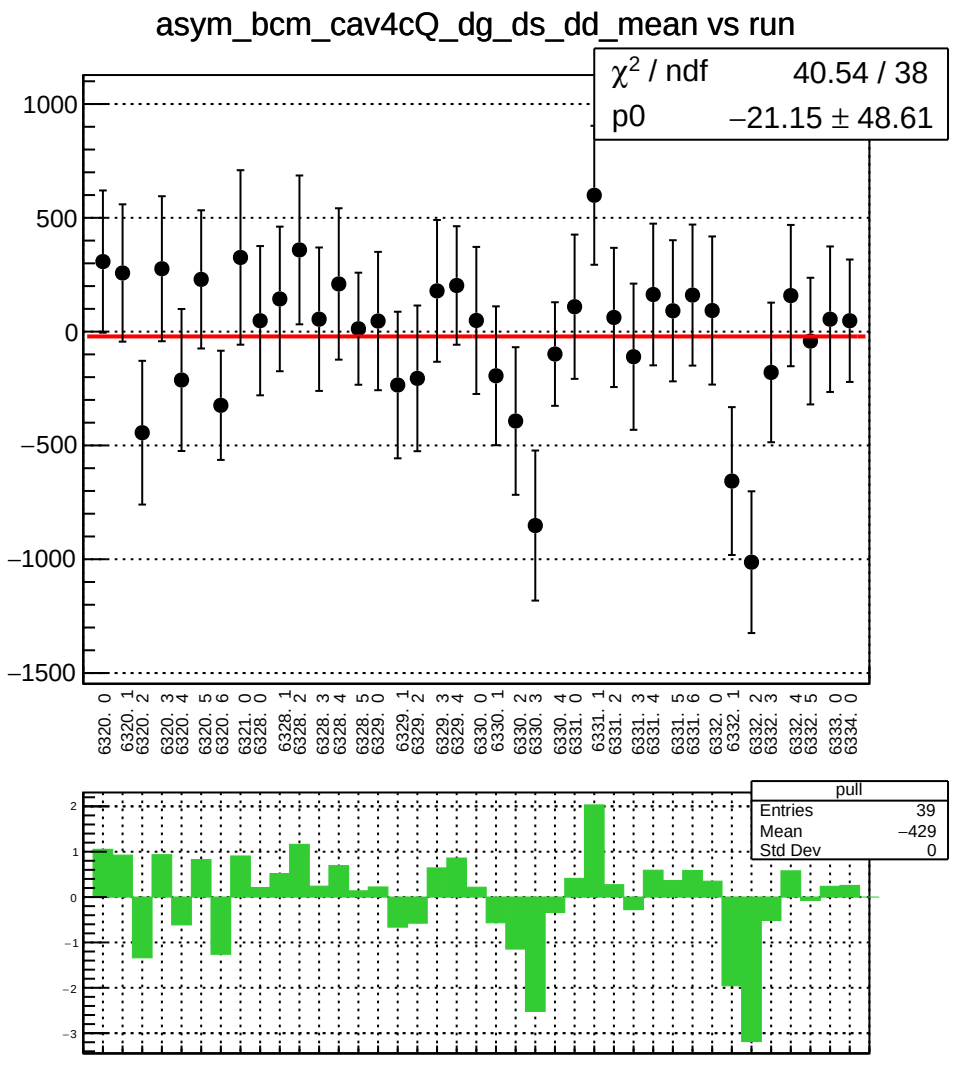

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 57.44 / 38
p0 −17.85 ± 43.51
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 431.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01064
Std Dev 1.214
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

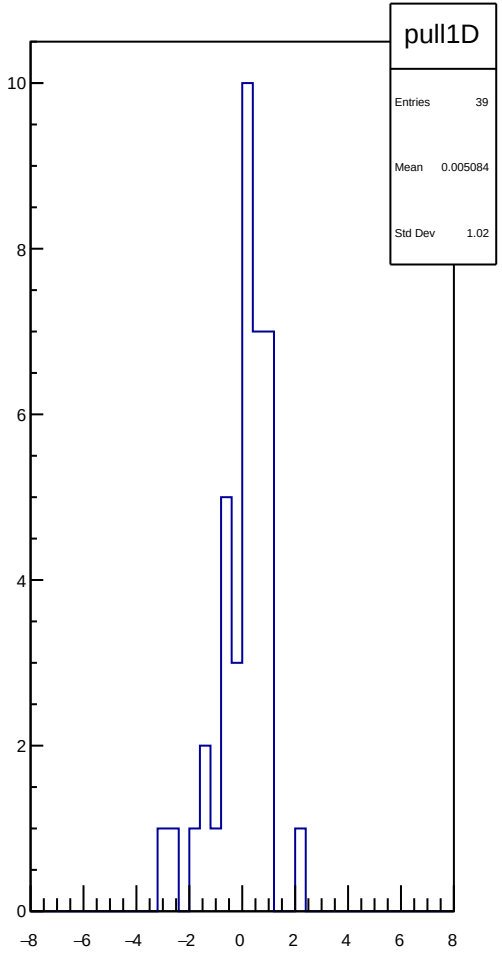

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 554 / 38
p0 26.78 ± 0.03077
28.5
28
27.5
27
26.5
26
25.5
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

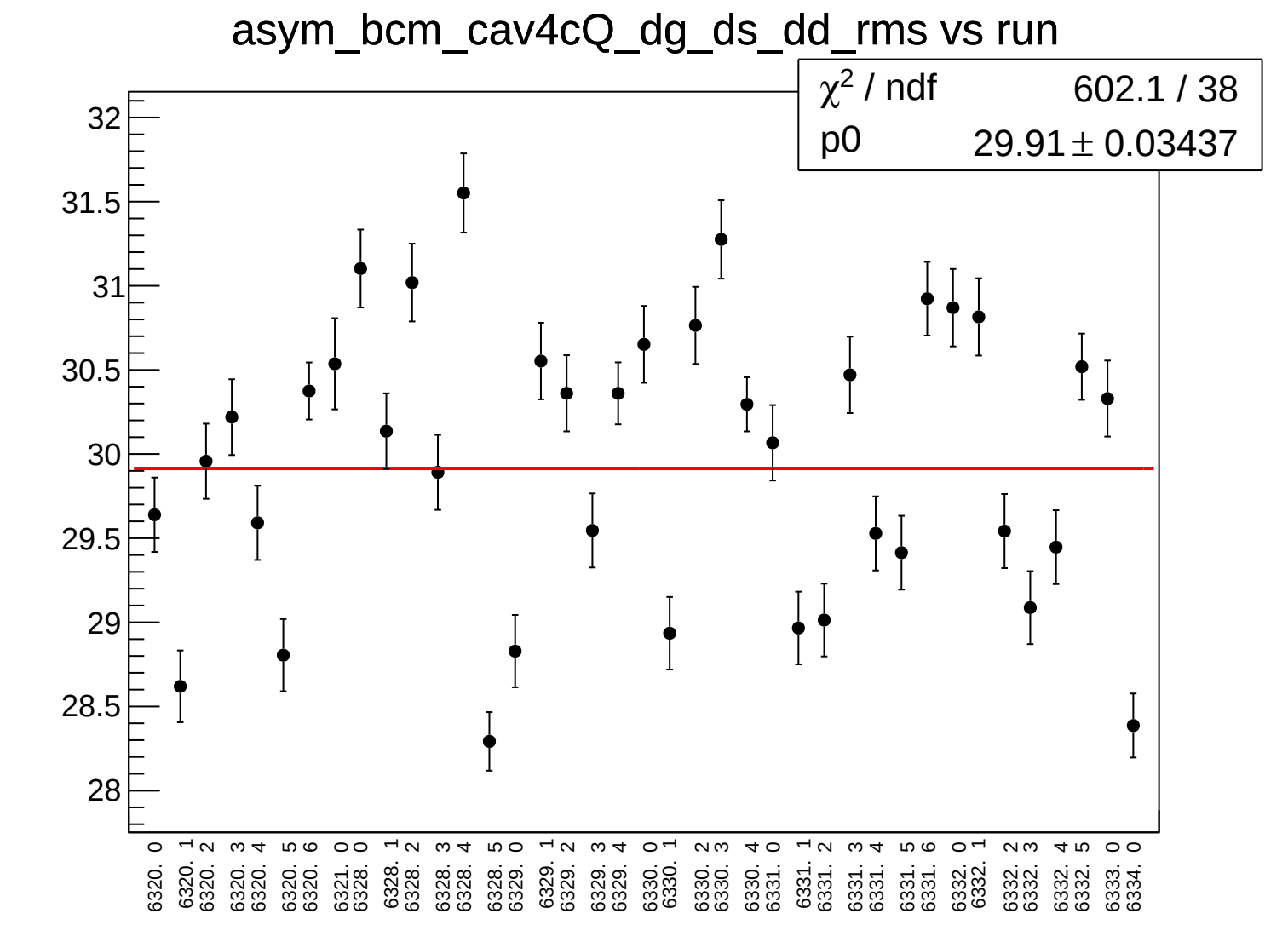

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 236.6 / 38
p0 508.4 ± 450.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 700.7
Std Dev 0
6
4
2
0
−2
−4
−6

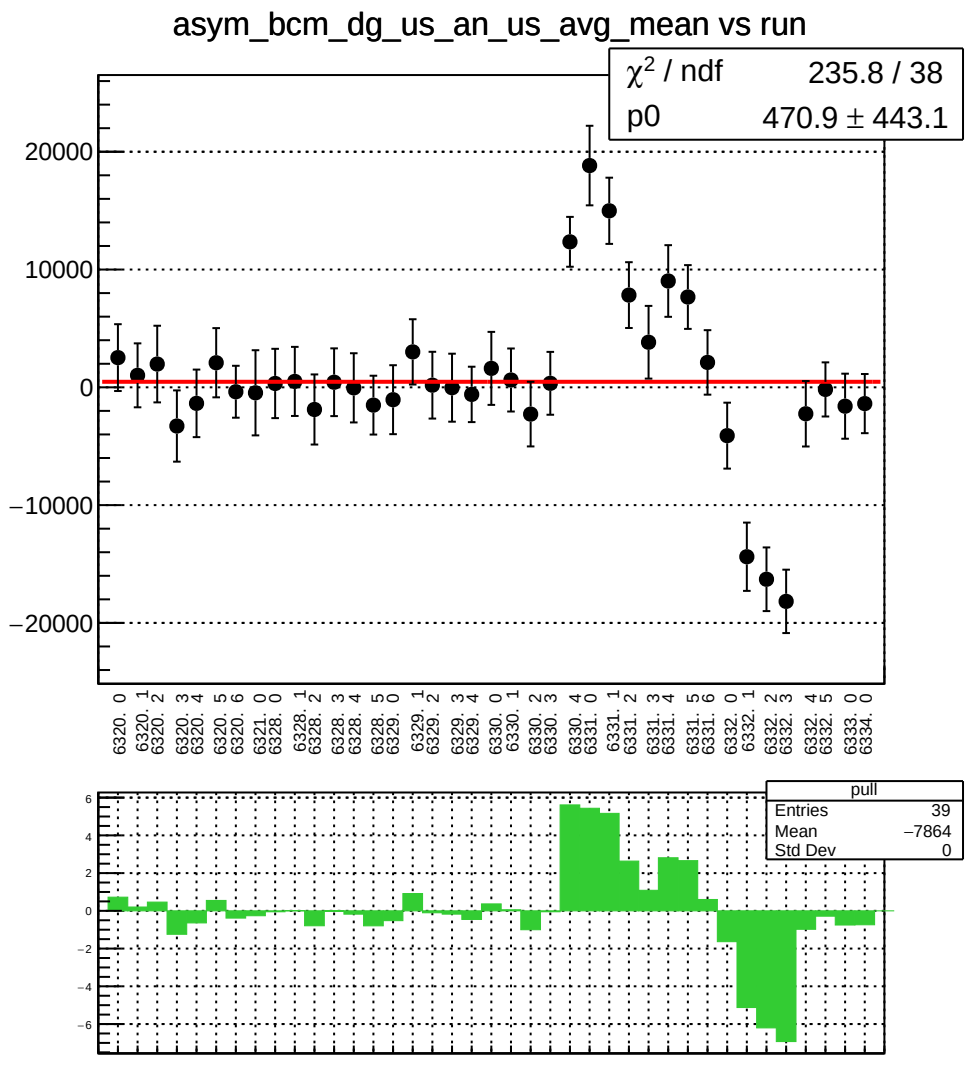

pull1D
Entries 39
Mean −0.00577
Std Dev 2.463
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

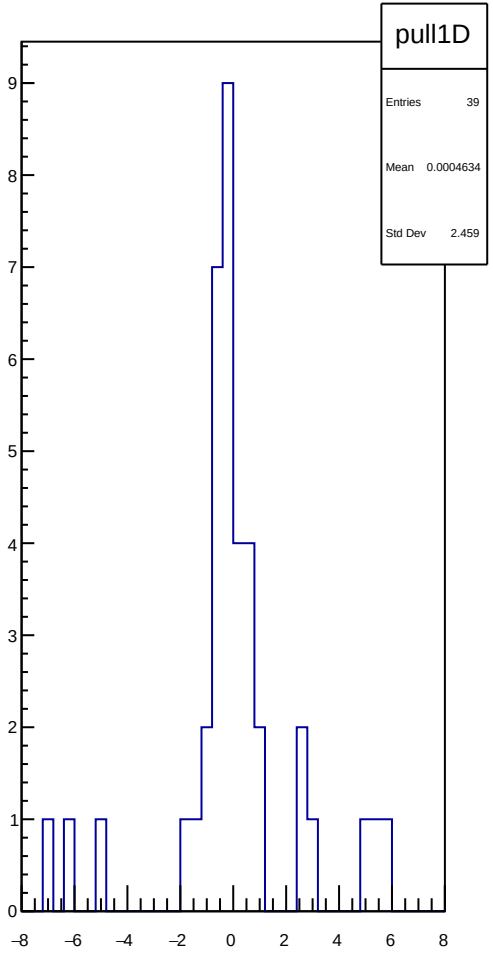

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1902 / 38
p0 276.7 ± 0.3182
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

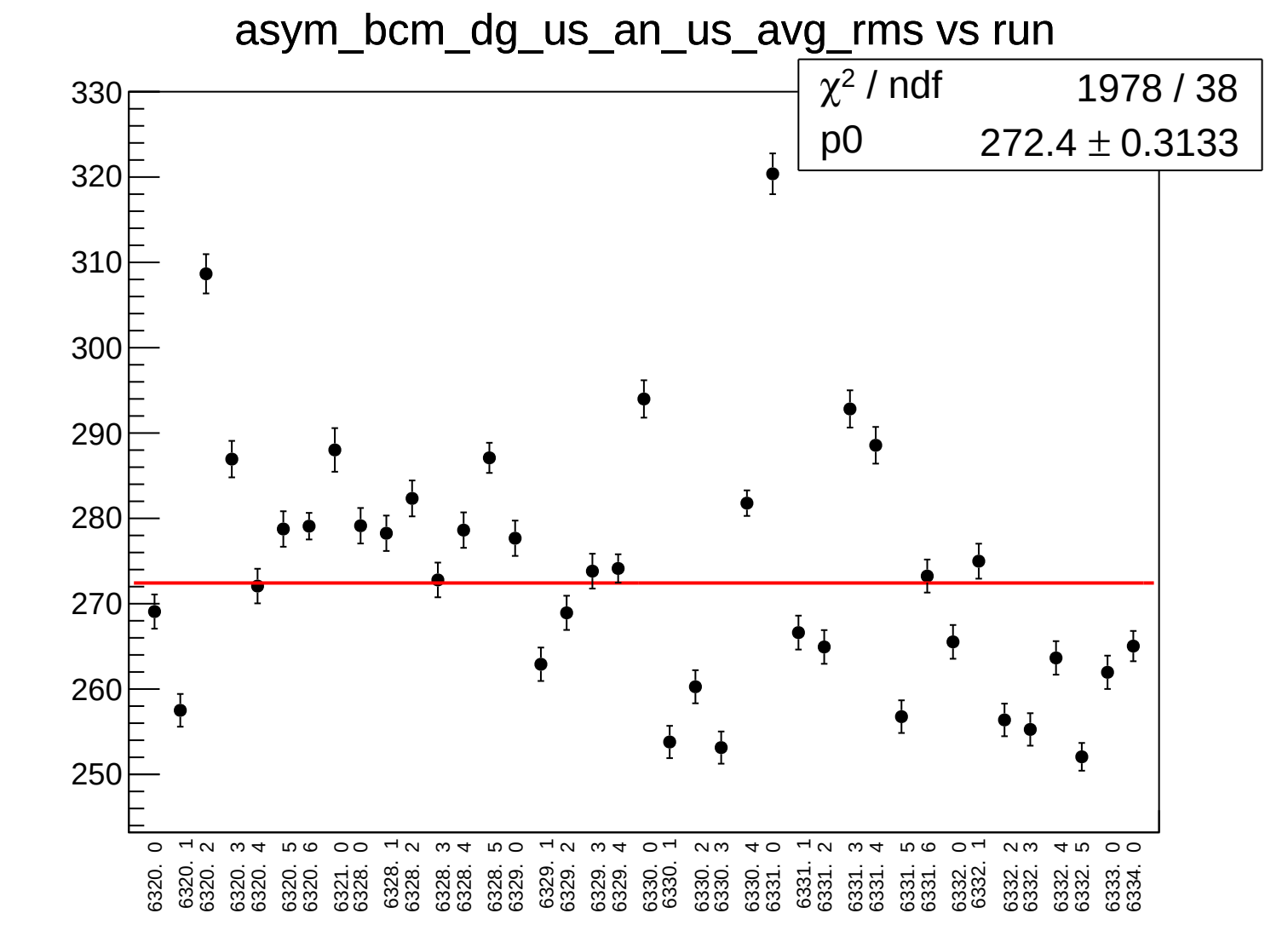

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 40.54 / 38
p0 −21.15 ± 48.61
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −429
Std Dev 0
2
1
0
−1
−2
−3

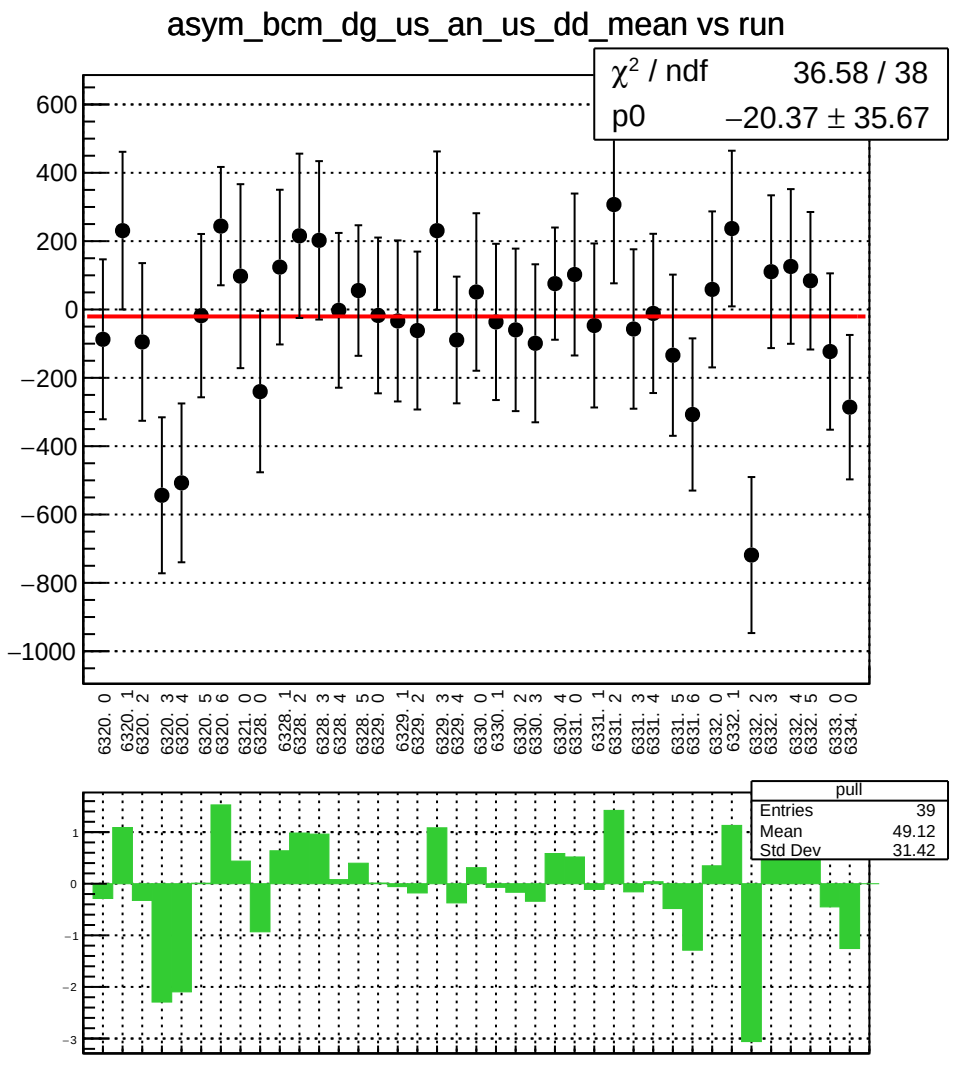

pull1D
Entries 39
Mean 0.005084
Std Dev 1.02
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

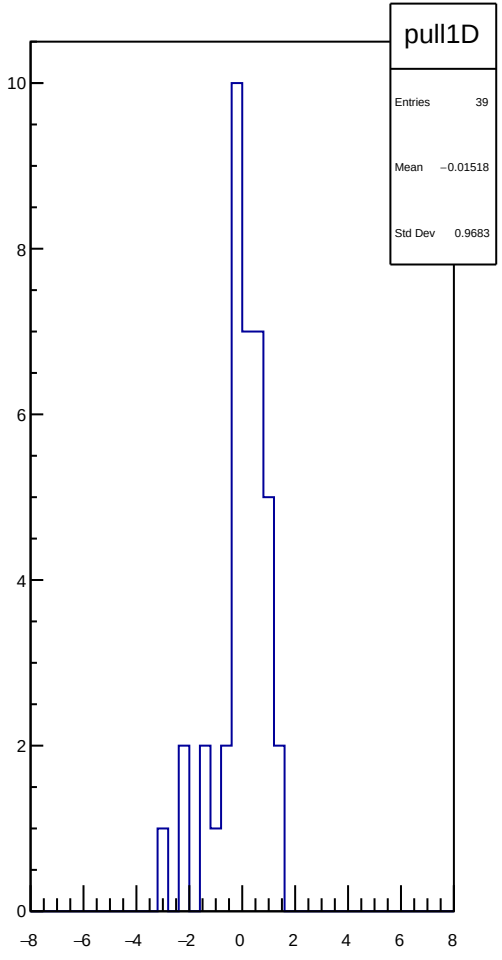

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 602.1 / 38
p0 29.91 ± 0.03437
32
31.5
31
30.5
30
29.5
29
28.5
28
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

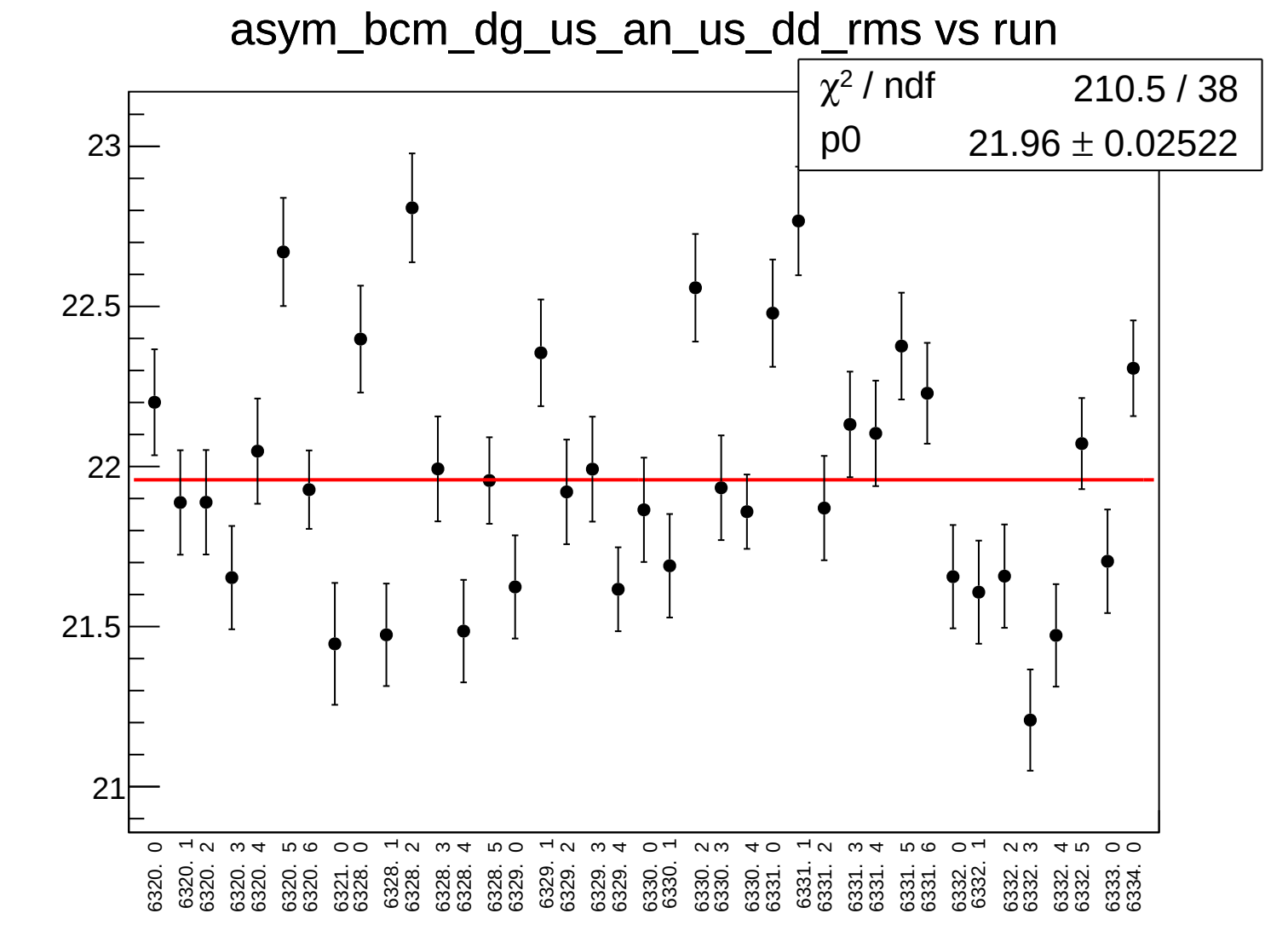

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 235.8 / 38
p0 470.9 ± 443.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7864
Std Dev 0
6
4
2
0
−2
−4
−6

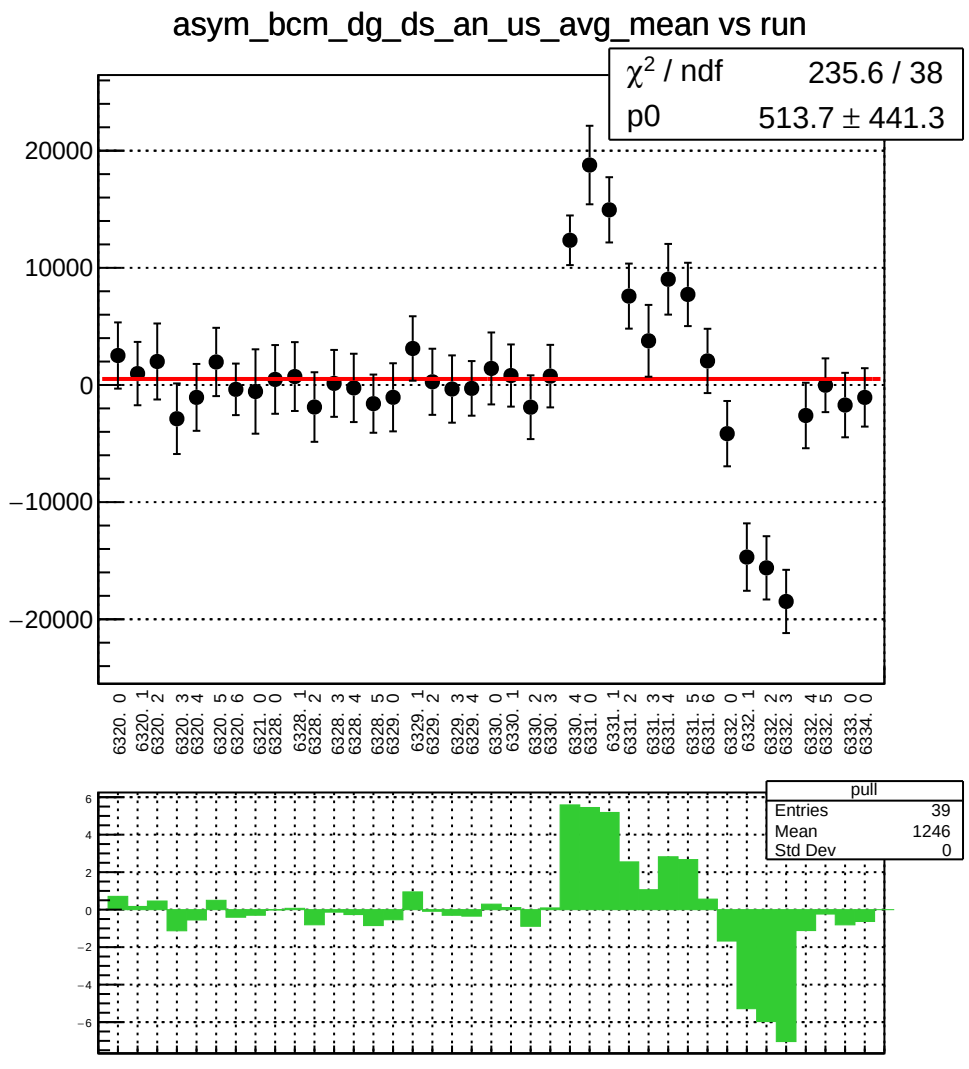

pull1D
Entries 39
Mean 0.0004634
Std Dev 2.459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

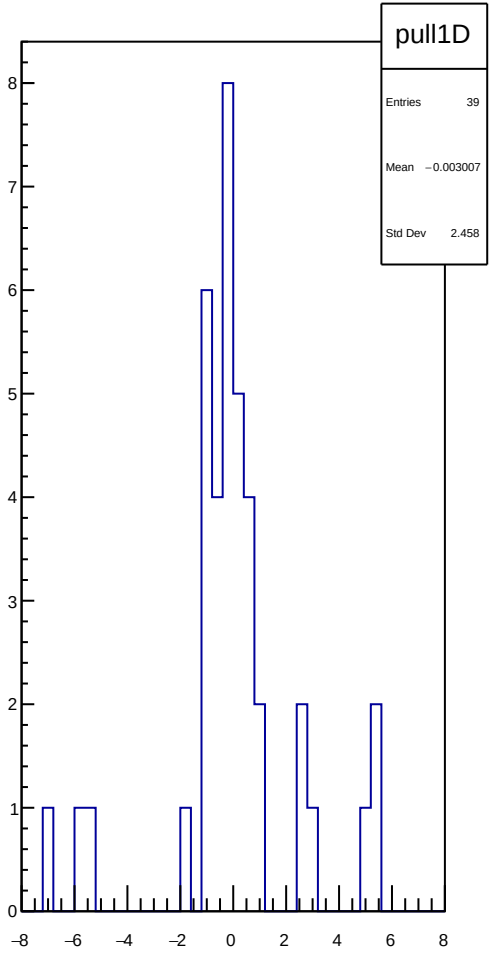

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1978 / 38
p0 272.4 ± 0.3133
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

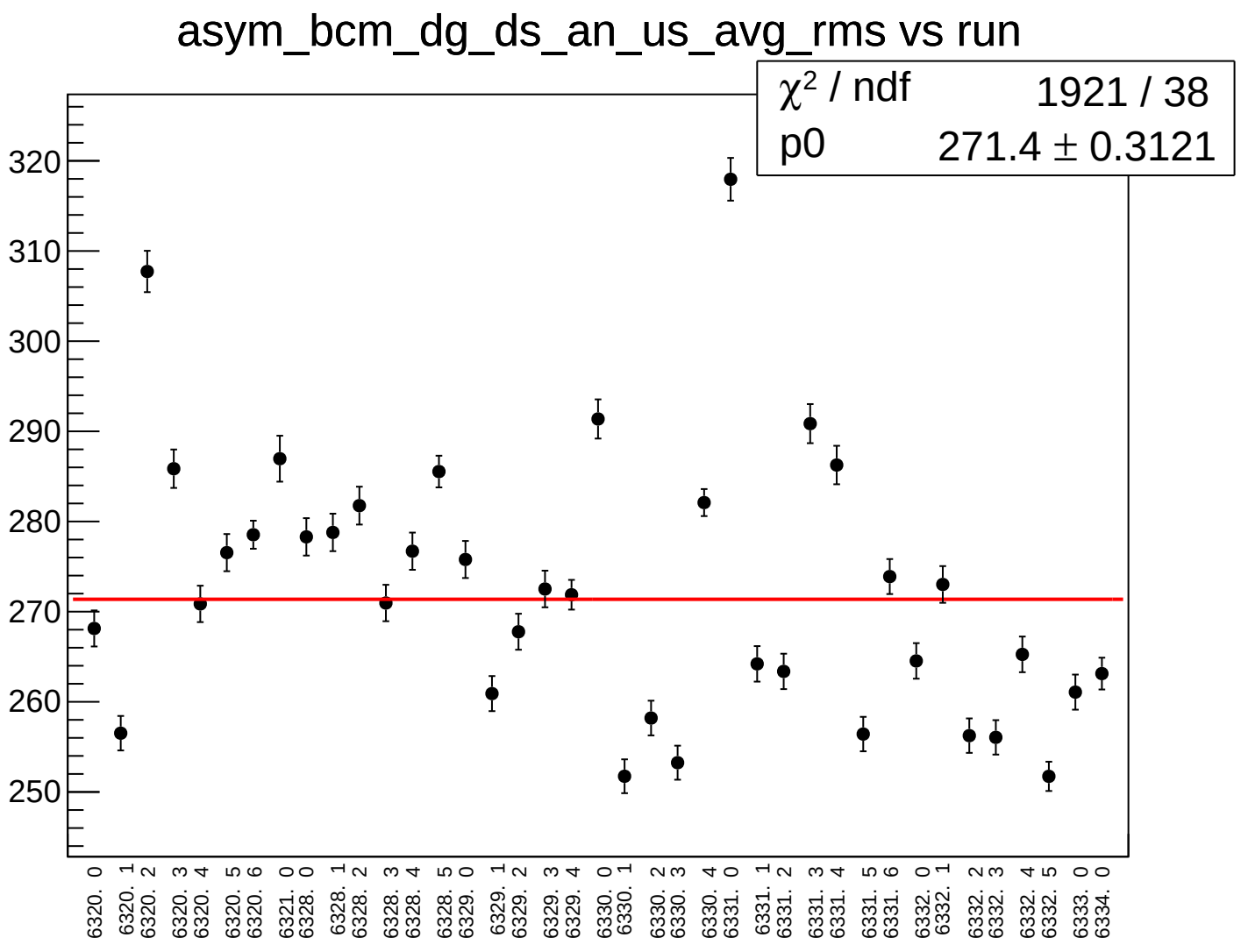

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 36.58 / 38
p0 −20.37 ± 35.67
pull
Entries 39
Mean 49.12
Std Dev 31.42

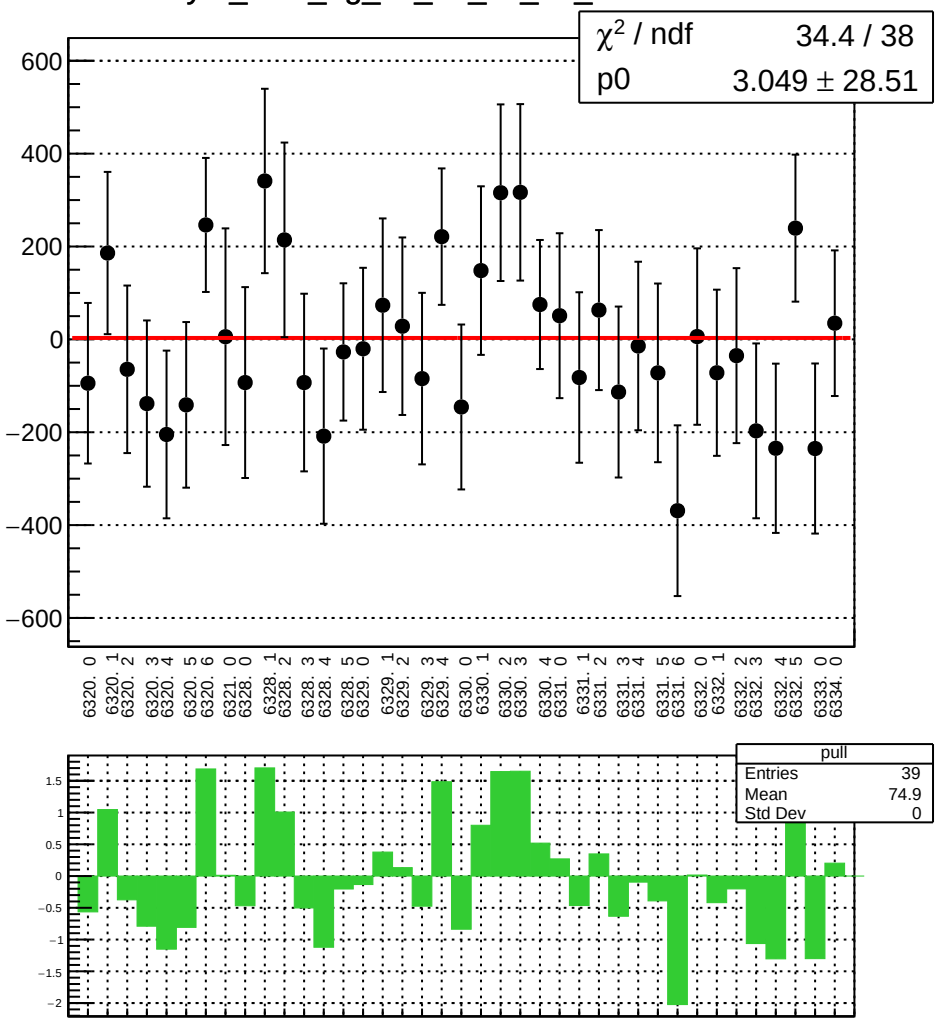

pull1D
Entries 39
Mean −0.01518
Std Dev 0.9683

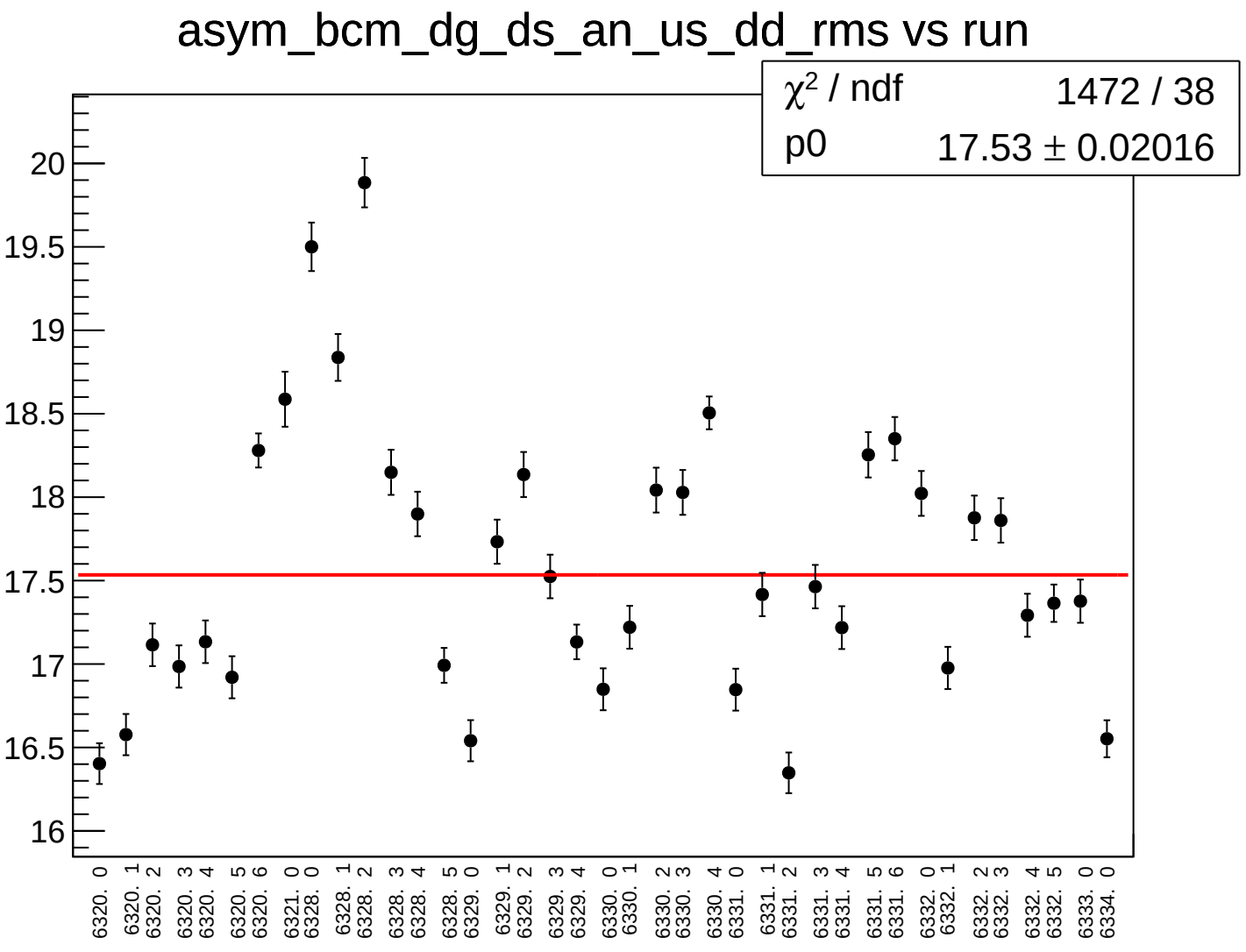

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 210.5 / 38
p0 21.96 ± 0.02522
23
22.5
22
21.5
21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

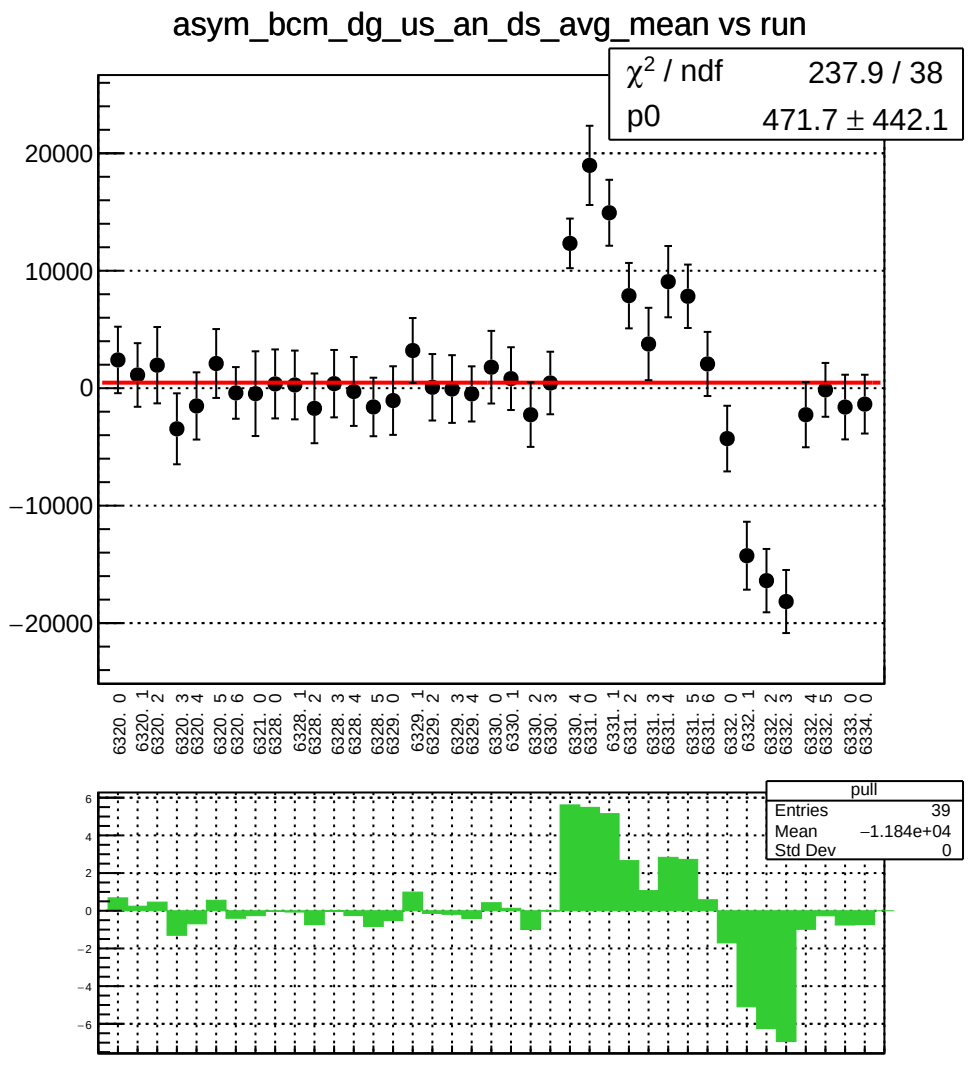

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 235.6 / 38
p0 513.7 ± 441.3
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1246
Std Dev 0
6
4
2
0
−2
−4
−6

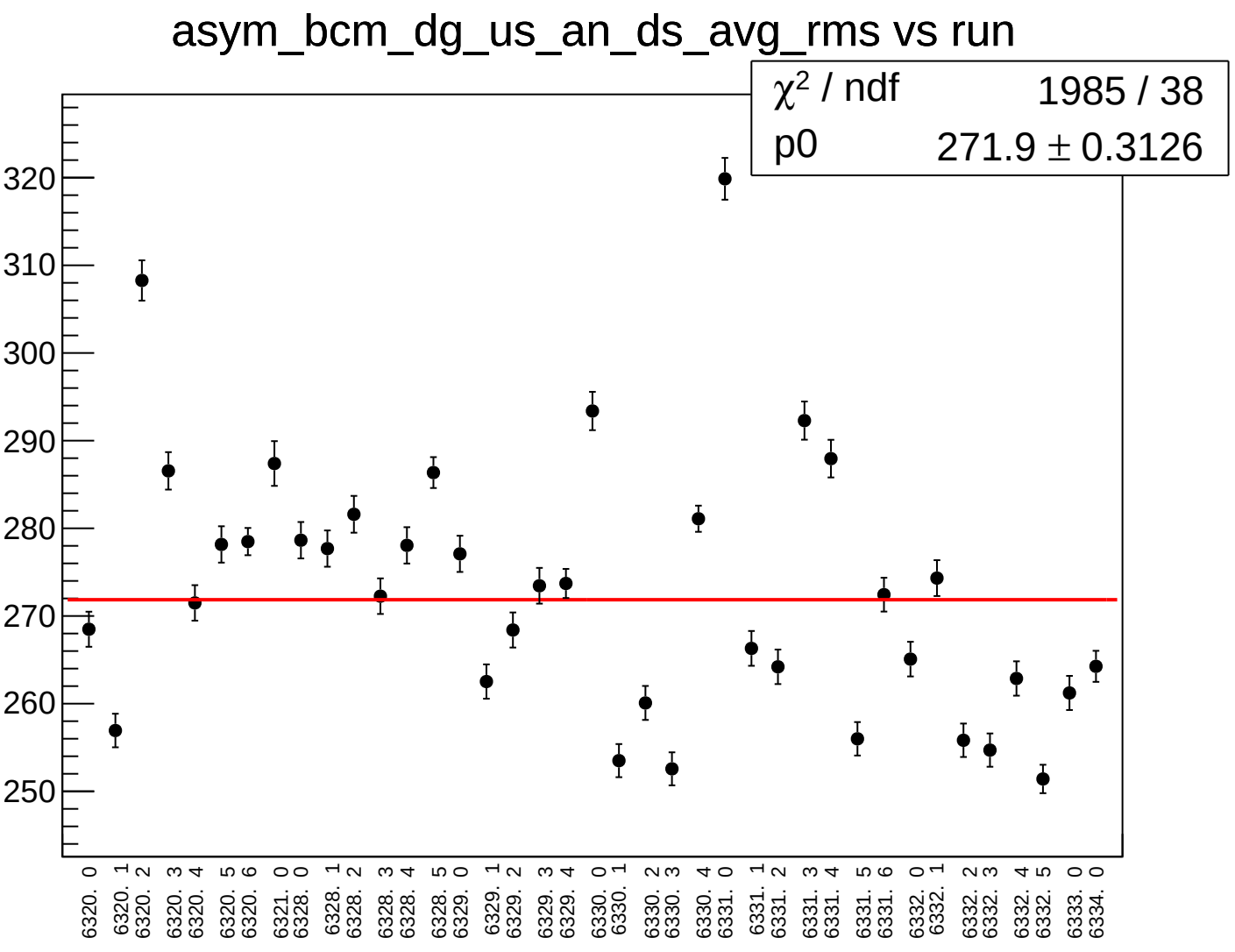

pull1D
Entries 39
Mean −0.003007
Std Dev 2.458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

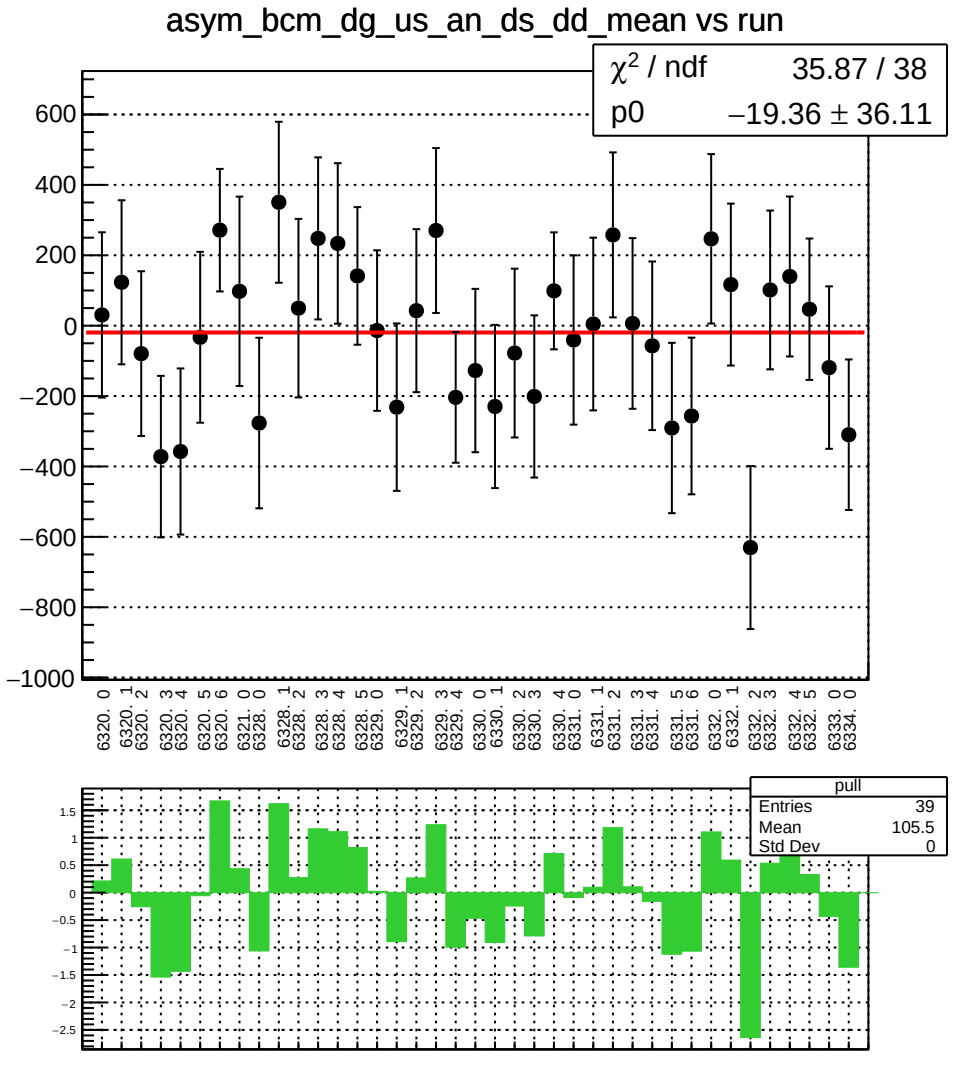

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1921 / 38
p0 271.4 ± 0.3121
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

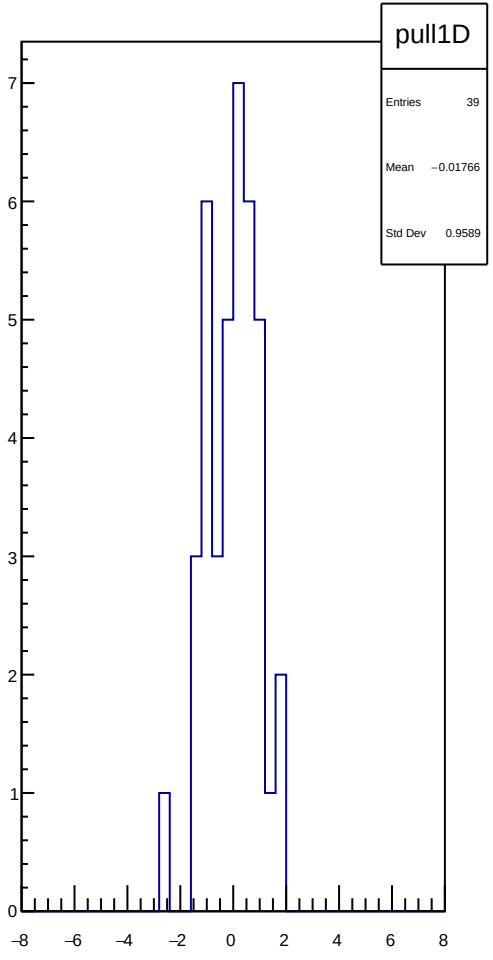

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 34.4 / 38
p0 3.049 ± 28.51
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02373
Std Dev 0.9389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

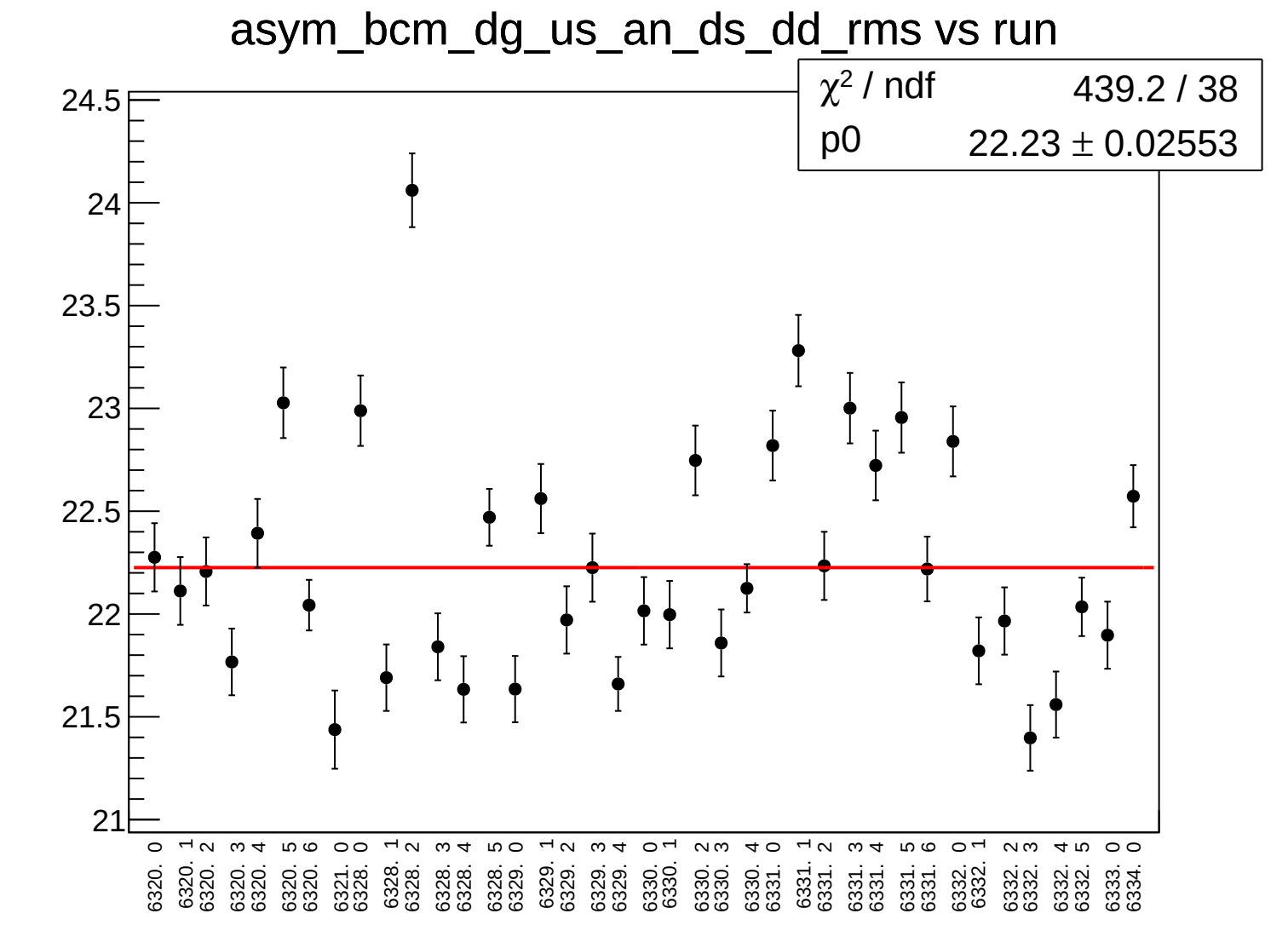

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1472 / 38
p0 17.53 ± 0.02016
20
19.5
19
18.5
18
17.5
17
16.5
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

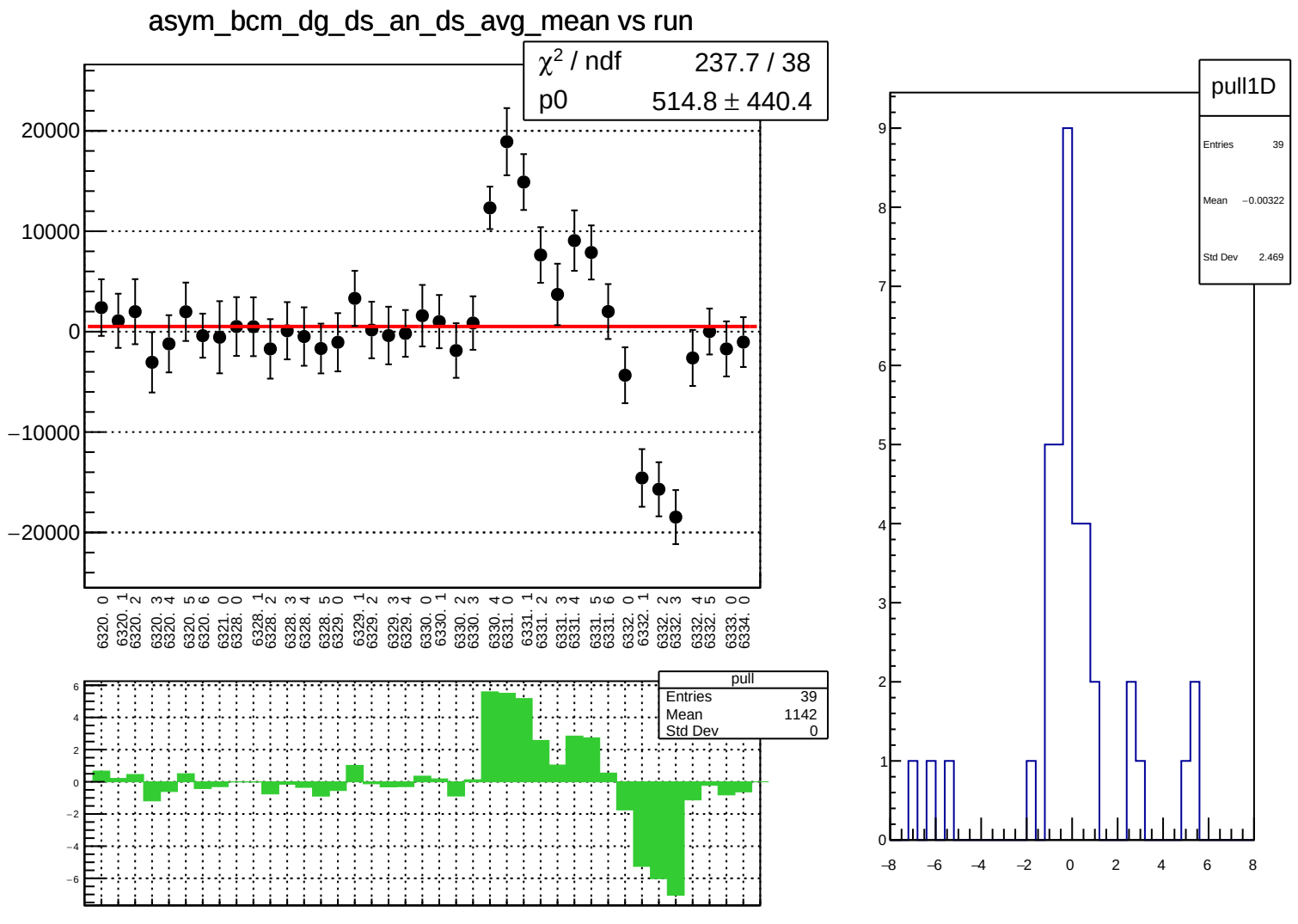

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 237.9 / 38
p0 471.7 ± 442.1
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.184e+04
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean 0.000302
Std Dev 2.47
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

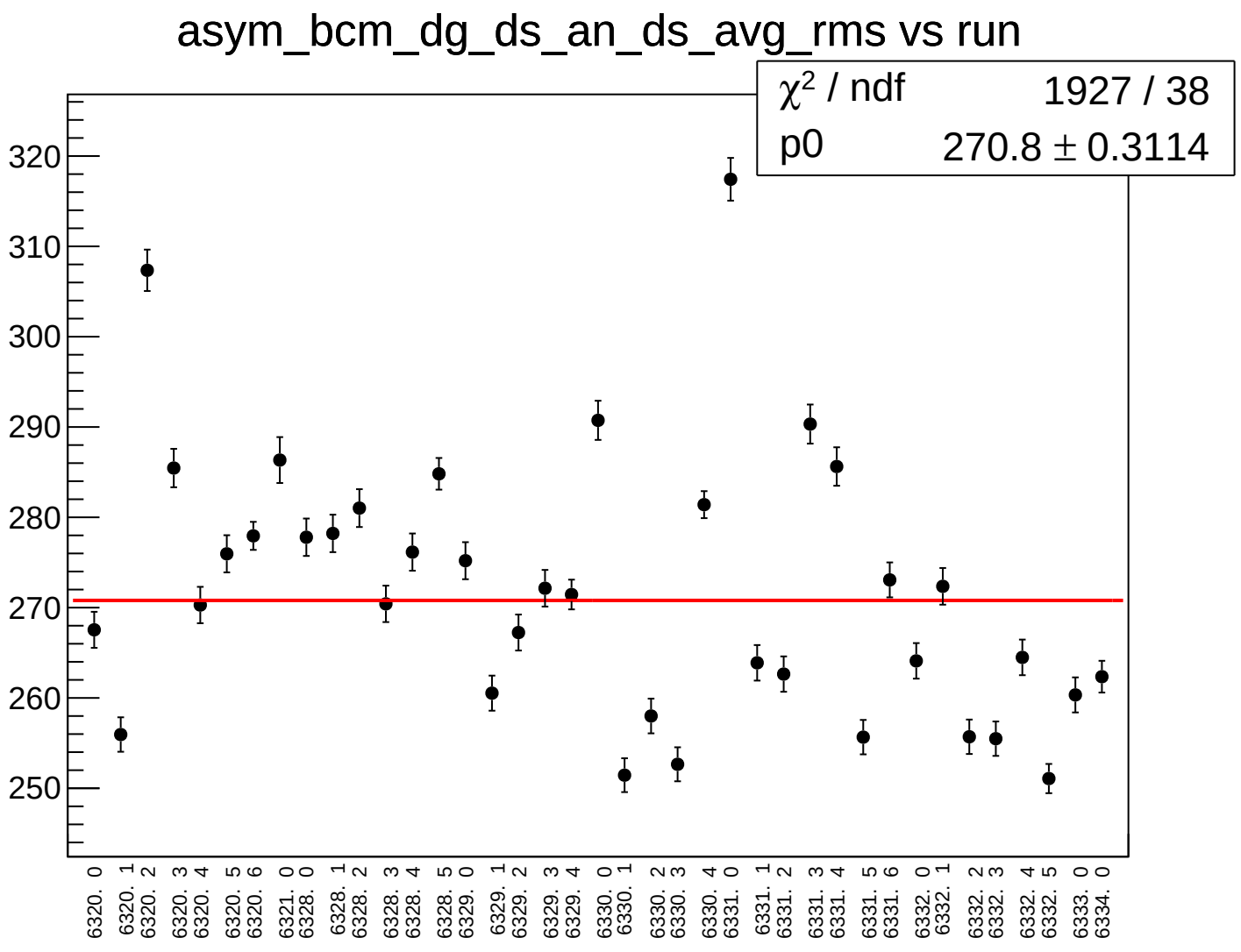

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1985 / 38
p0 271.9 ± 0.3126
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

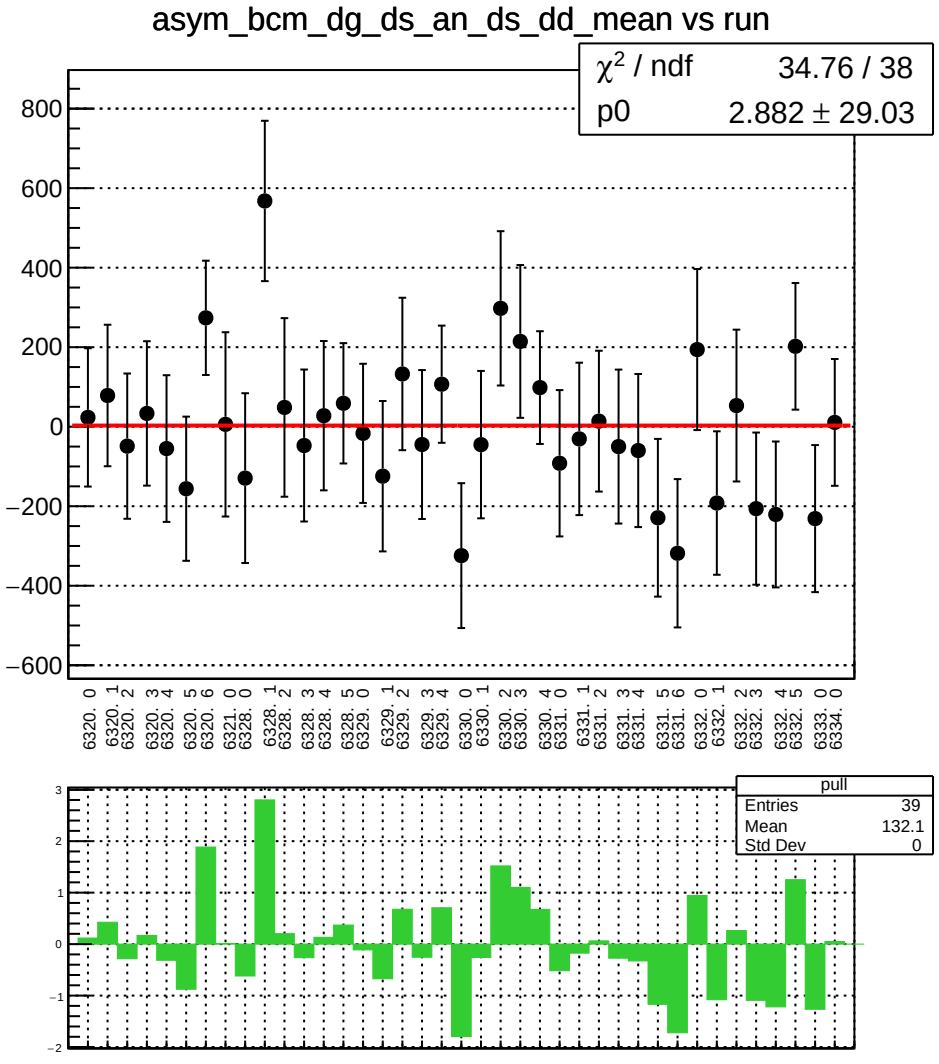

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 35.87 / 38
p0 −19.36 ± 36.11
pull
Entries 39
Mean 105.5
Std Dev 0

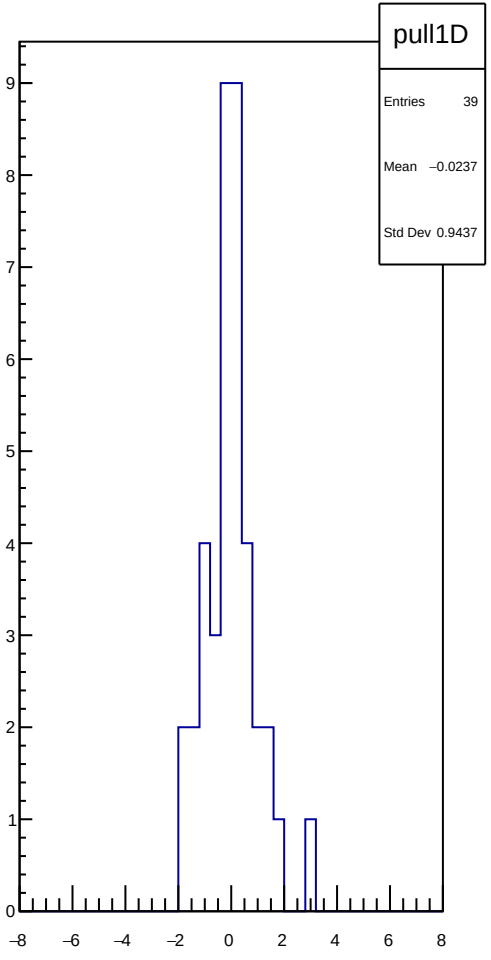

pull1D
Entries 39
Mean −0.01766
Std Dev 0.9589

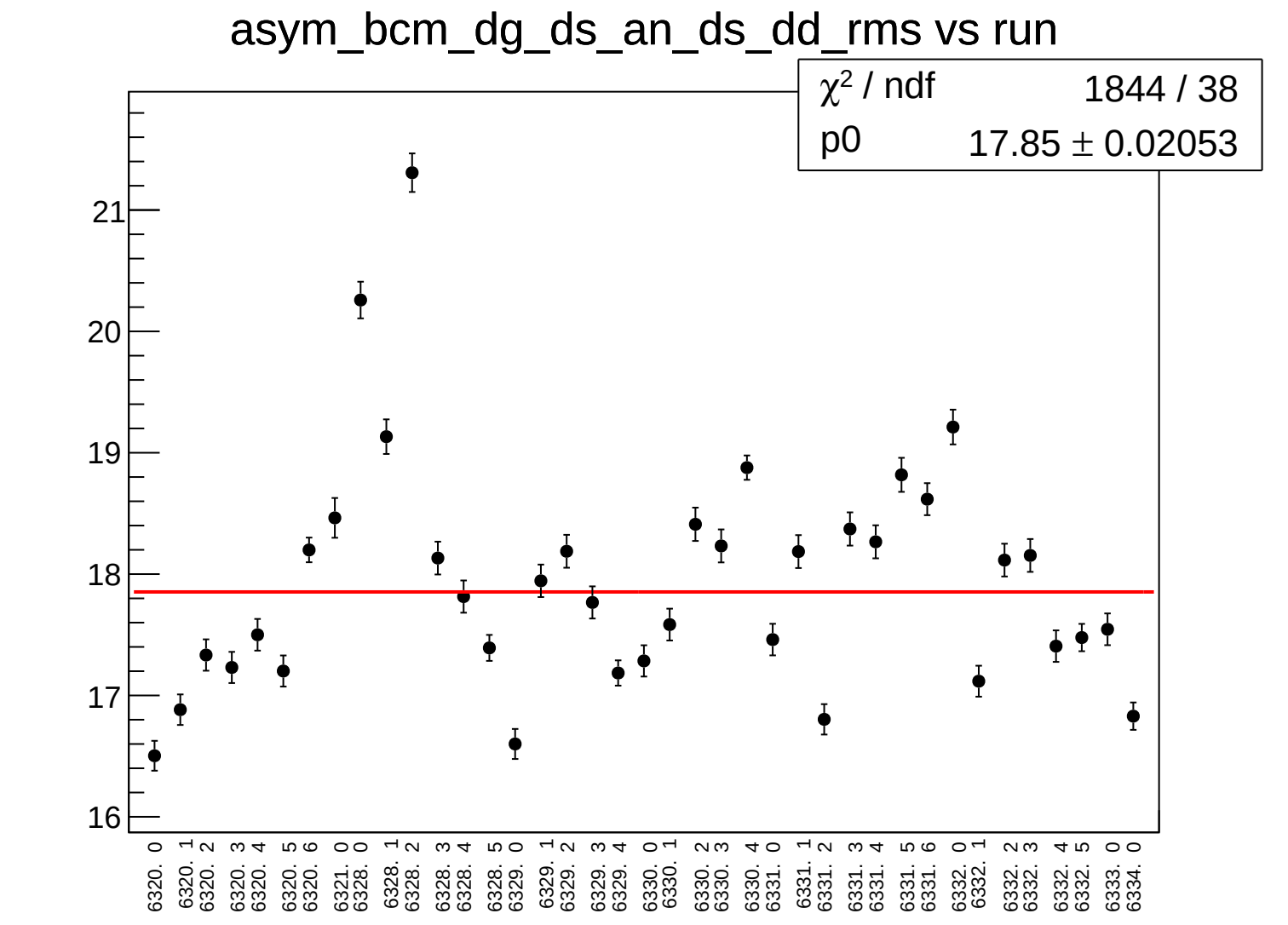

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 439.2 / 38
p0 22.23 ± 0.02553
24.5
24
23.5
23
22.5
22
21.5
21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

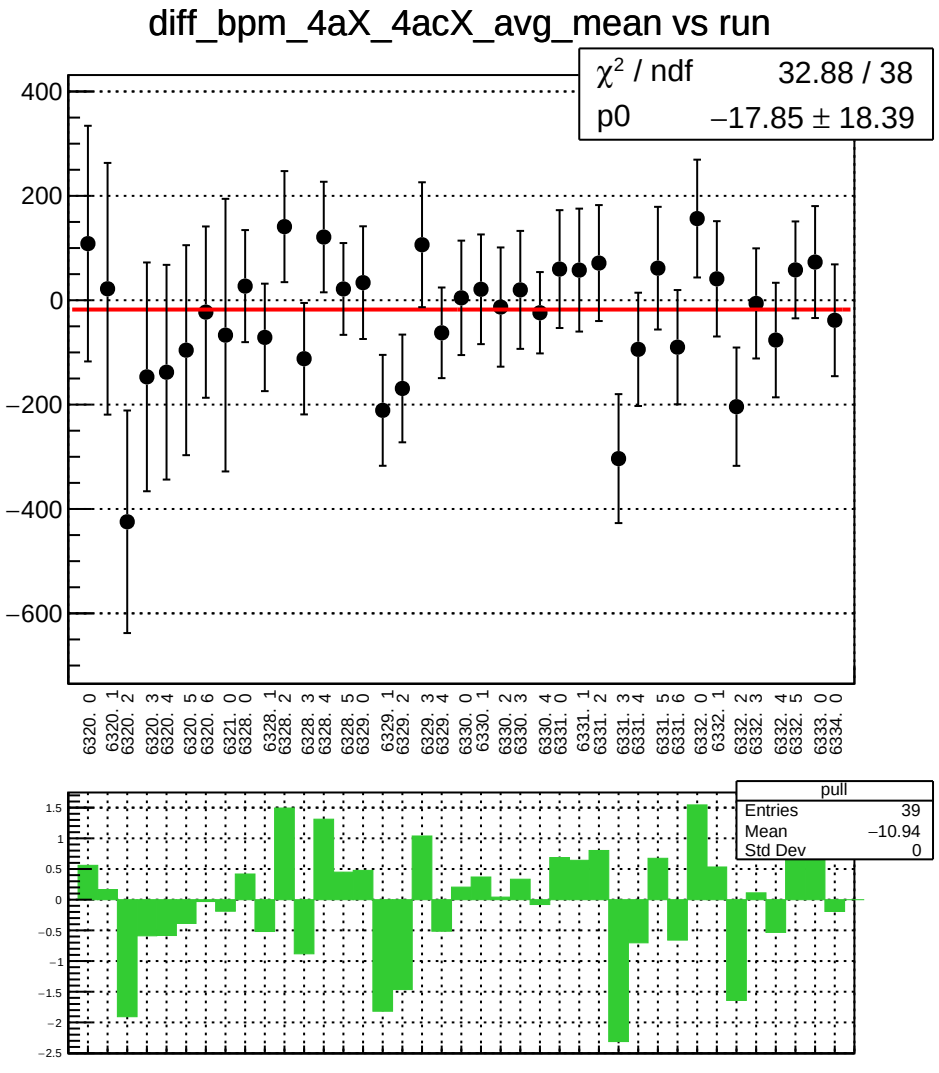

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 237.7 / 38
p0 514.8 ± 440.4
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1142
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.00322
Std Dev 2.469
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

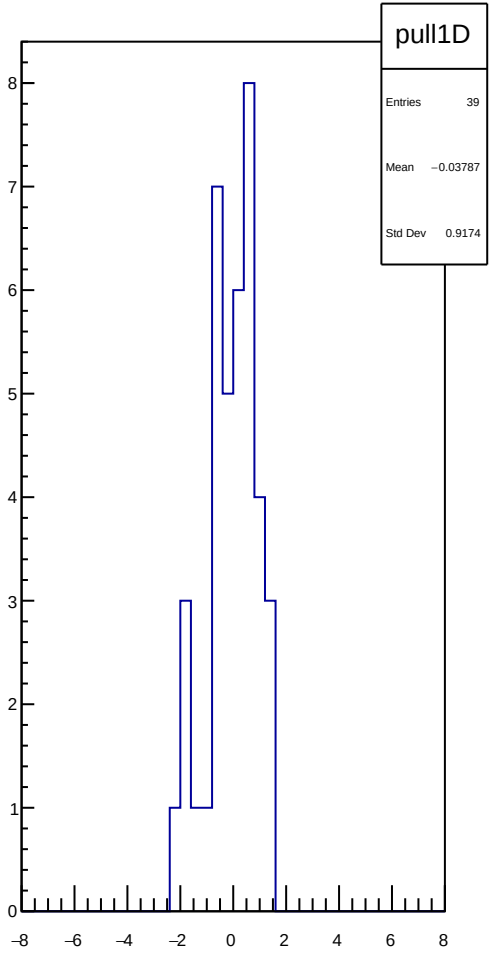

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1927 / 38
p0 270.8 ± 0.3114
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

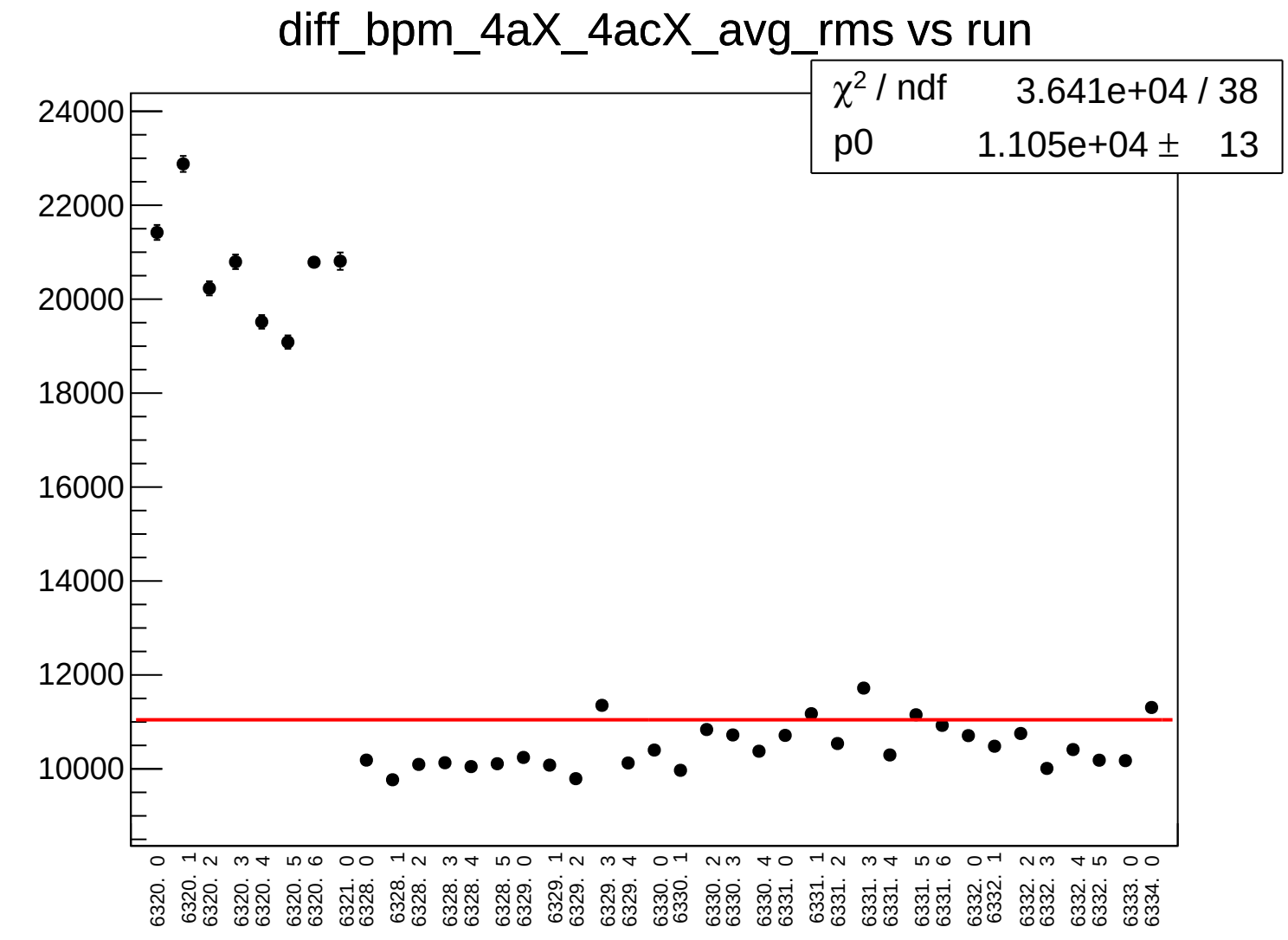

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 34.76 / 38
p0 2.882 ± 29.03
pull
Entries 39
Mean 132.1
Std Dev 0

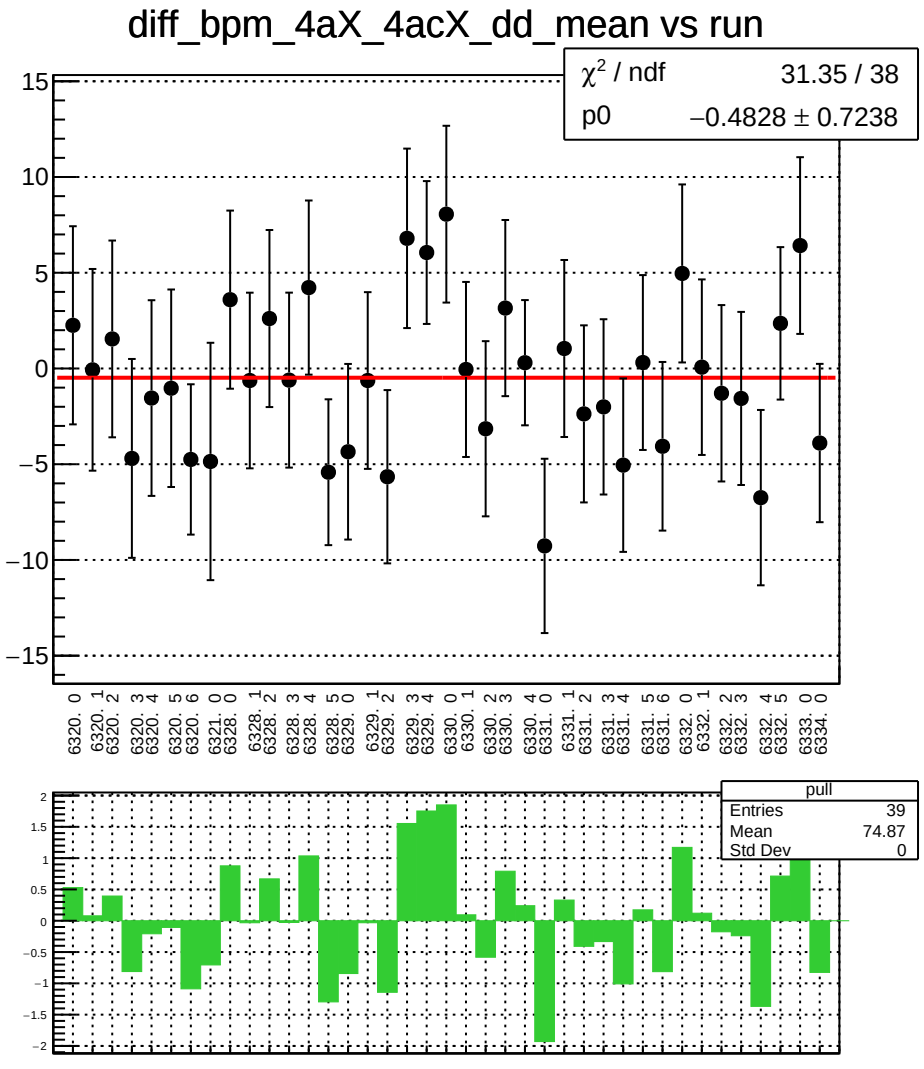

pull1D
Entries 39
Mean −0.0237
Std Dev 0.9437

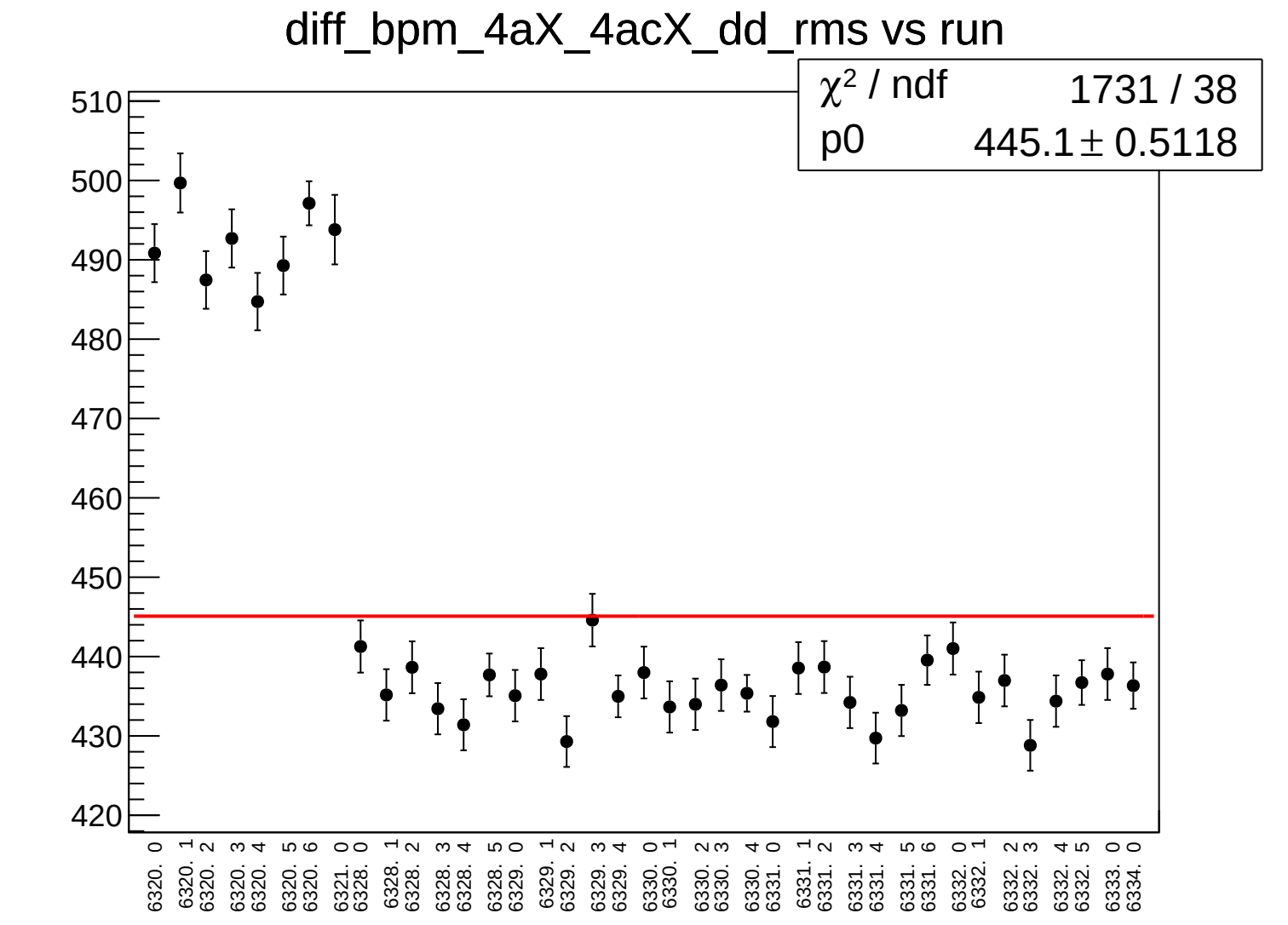

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1844 / 38
p0 17.85 ± 0.02053
21
20
19
18
17
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

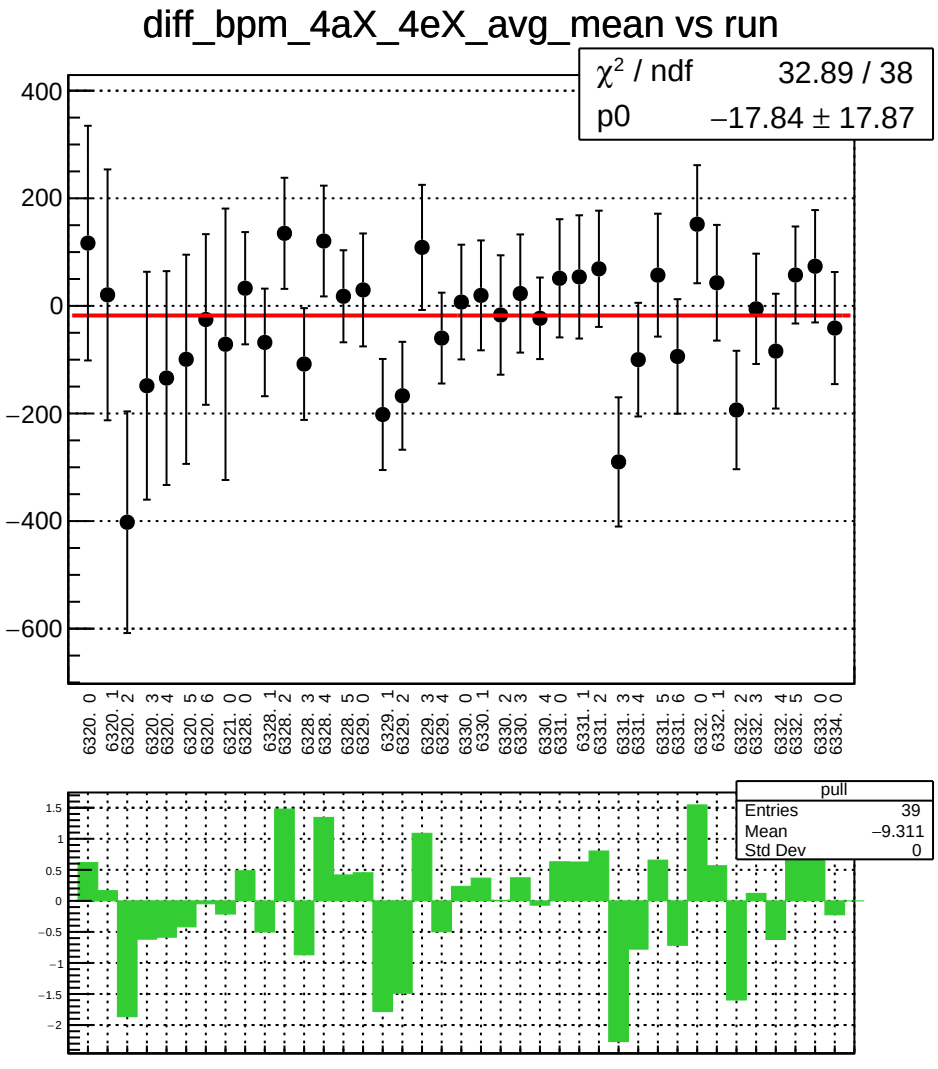

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 32.88 / 38
p0 −17.85 ± 18.39
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

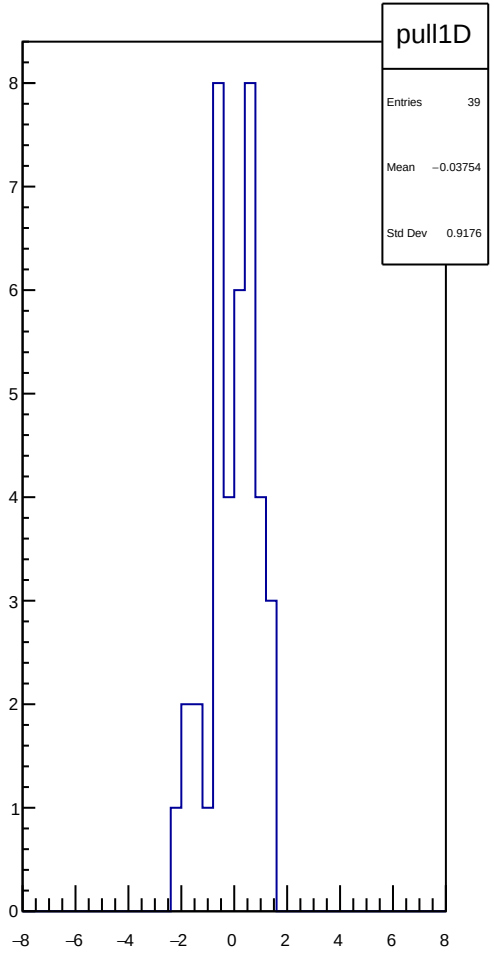

pull1D
Entries 39
Mean −0.03787
Std Dev 0.9174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

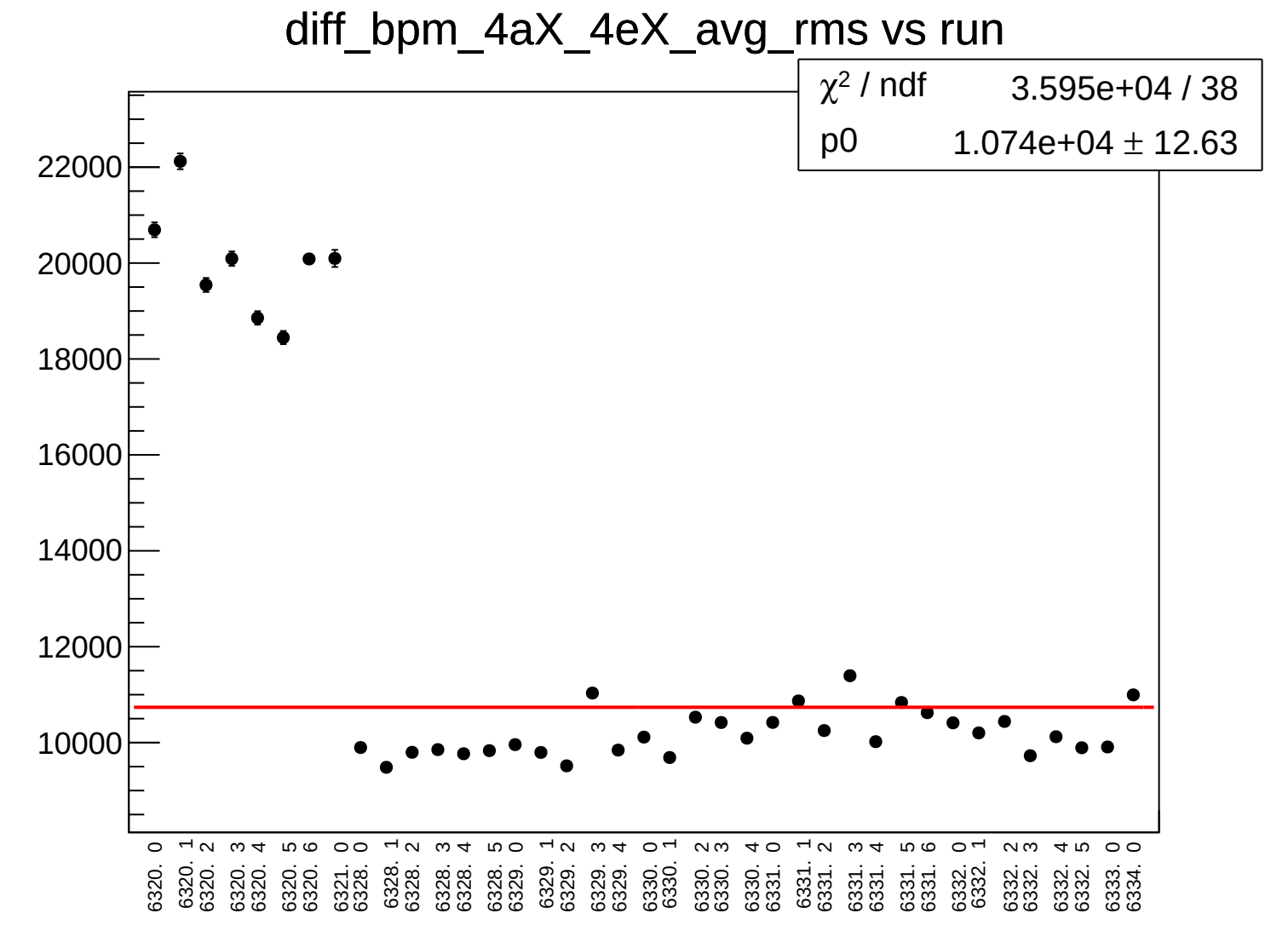

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3.641e+04 / 38
p0 1.105e+04 ± 13
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

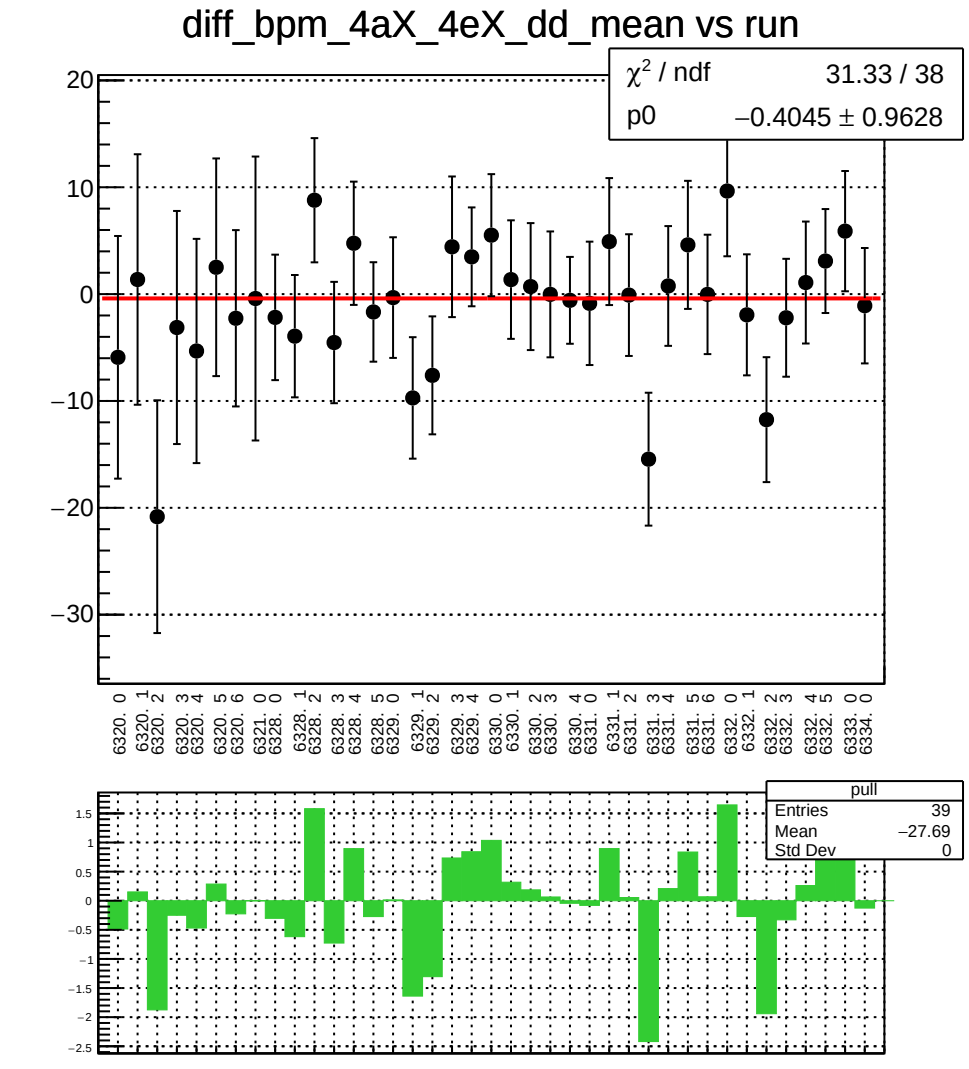

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 31.35 / 38
p0 −0.4828 ± 0.7238
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.002689
Std Dev 0.8966
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

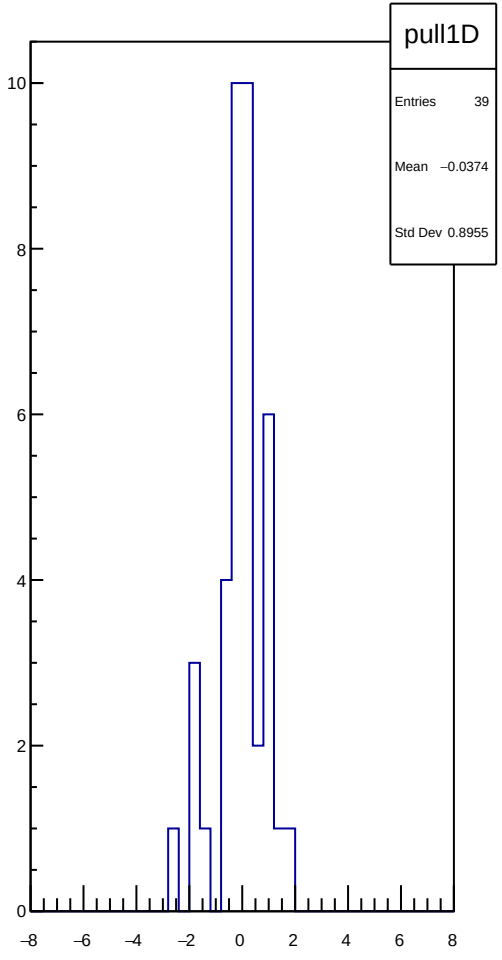

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1731 / 38
p0 445.1 ± 0.5118
510
500
490
480
470
460
450
440
430
420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

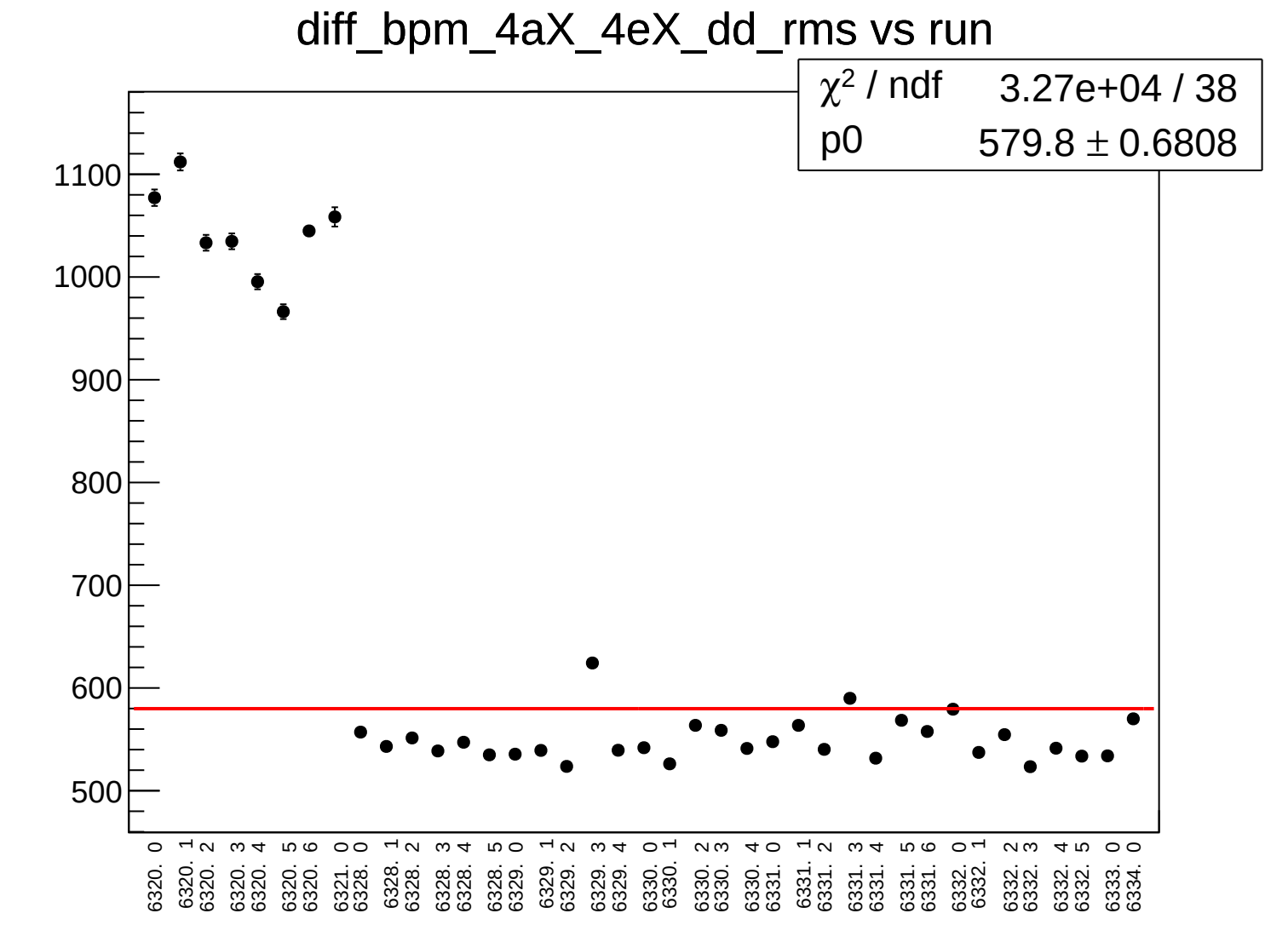

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 32.89 / 38
p0 −17.84 ± 17.87
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.311
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

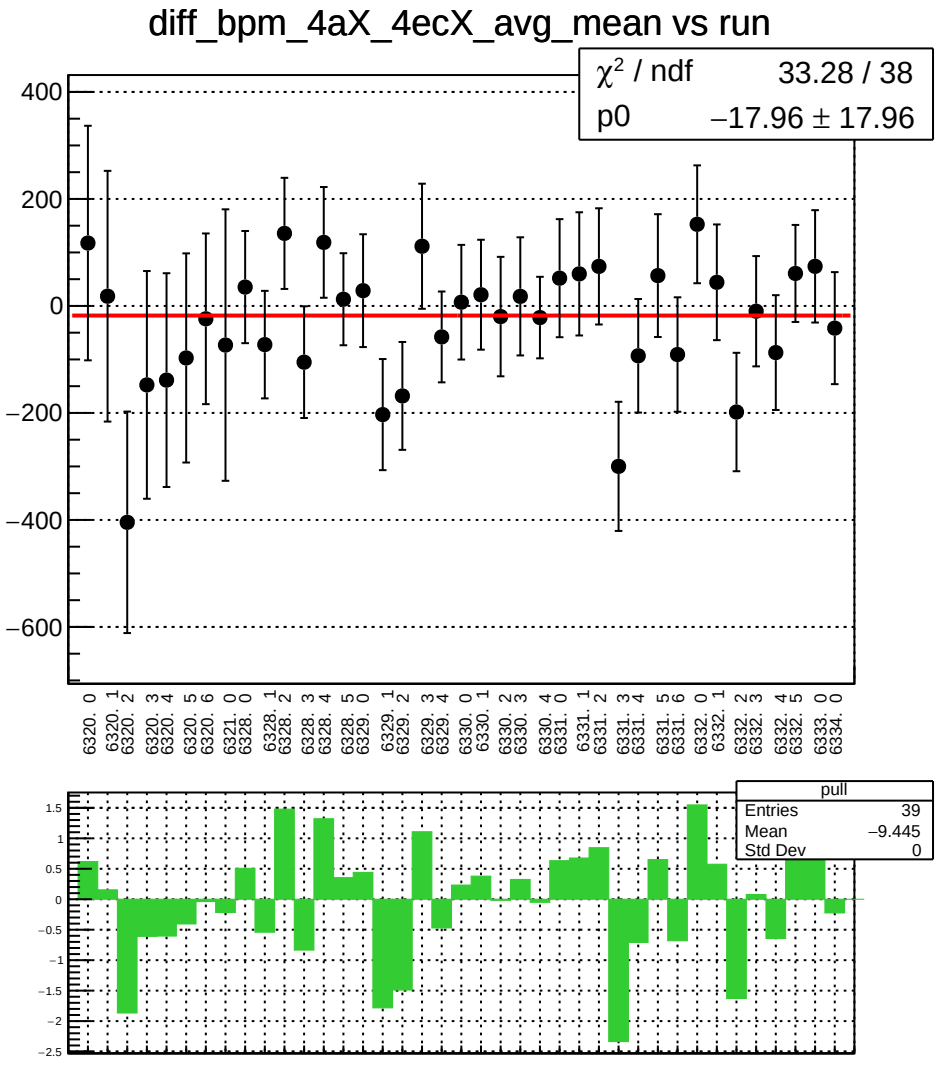

pull1D
Entries 39
Mean −0.03754
Std Dev 0.9176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

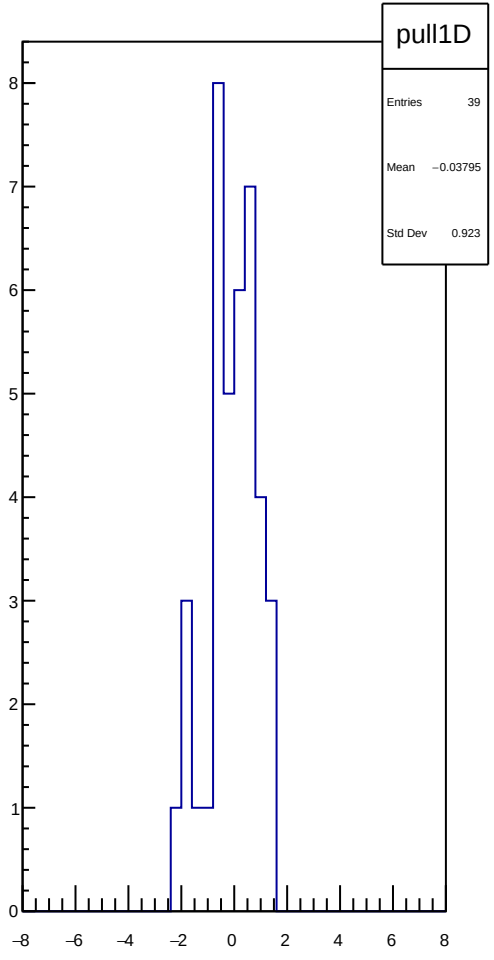

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3.595e+04 / 38
p0 1.074e+04 ± 12.63
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

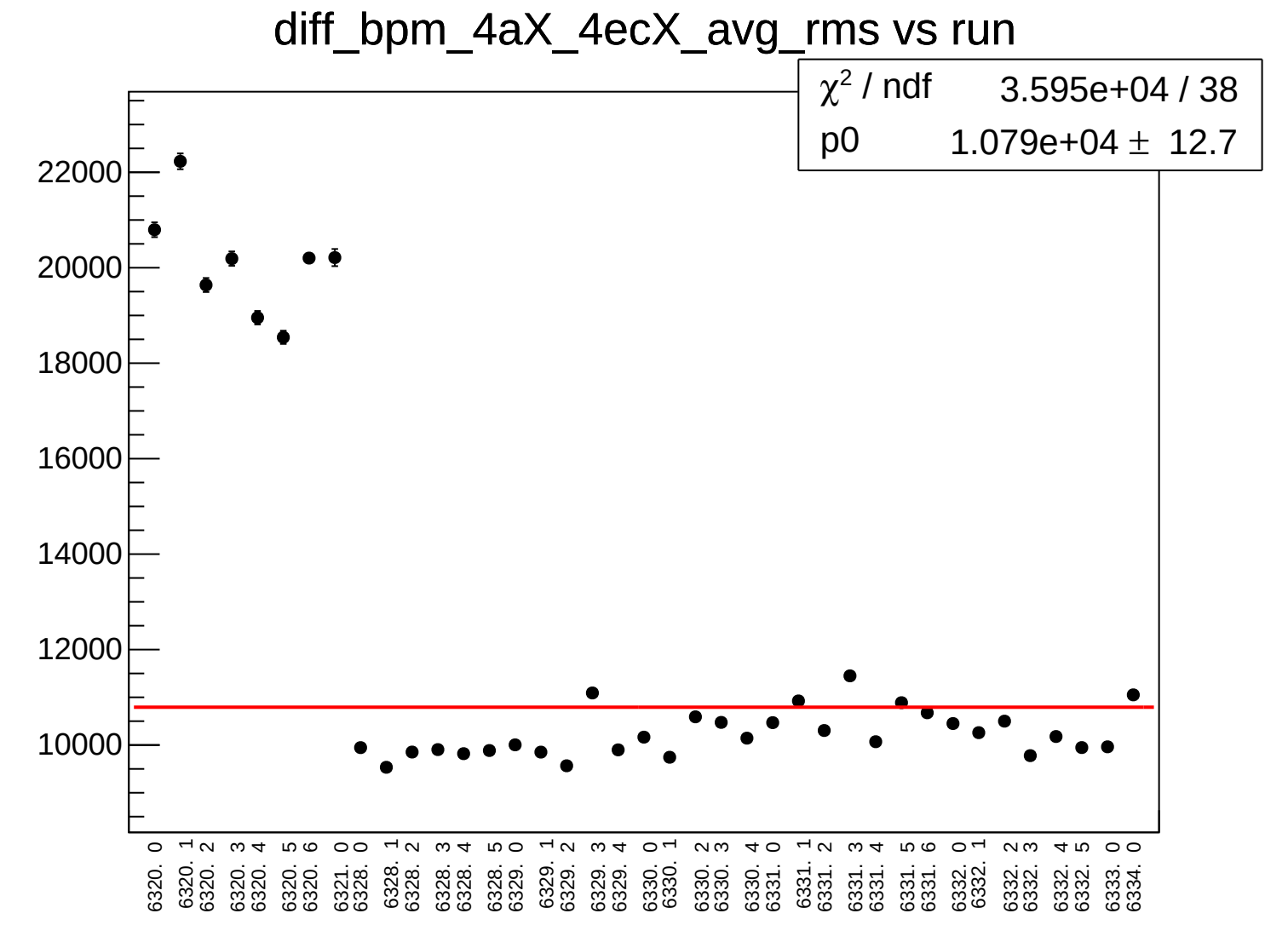

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 31.33 / 38
p0 −0.4045 ± 0.9628
pull
Entries 39
Mean −27.69
Std Dev 0

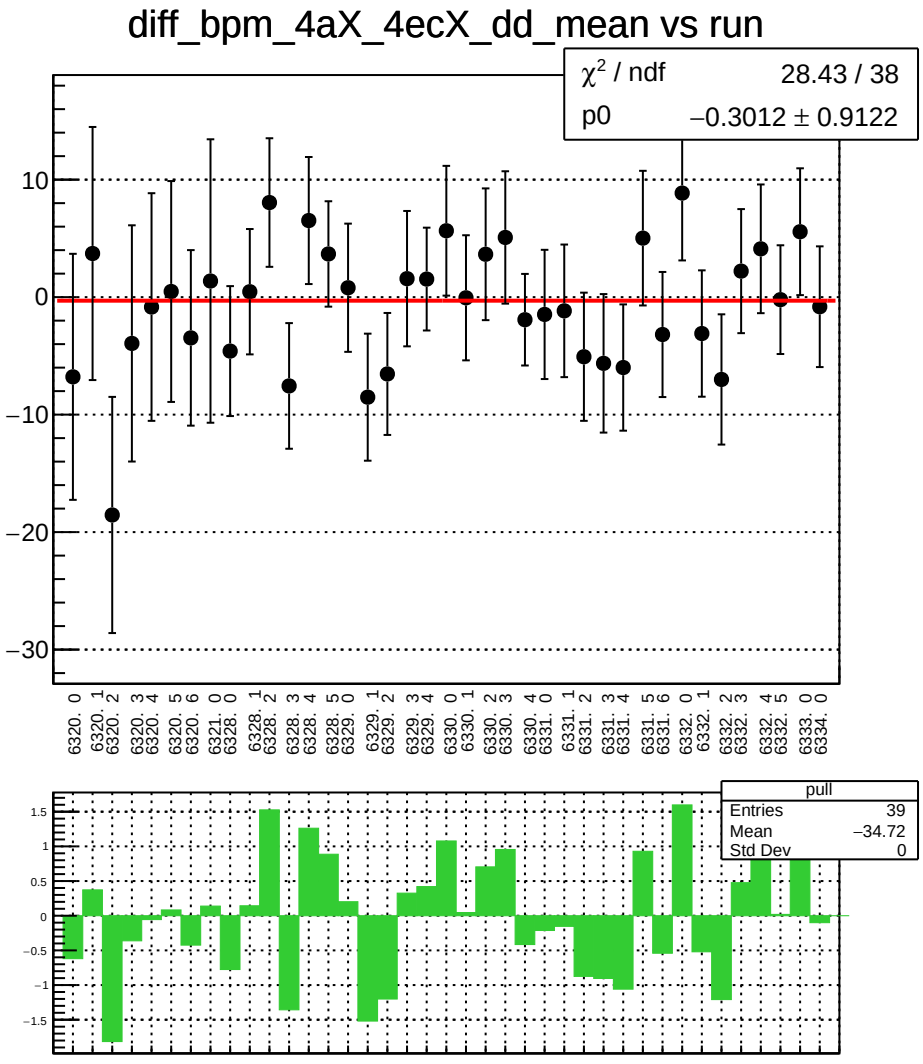

pull1D
Entries 39
Mean −0.0374
Std Dev 0.8955

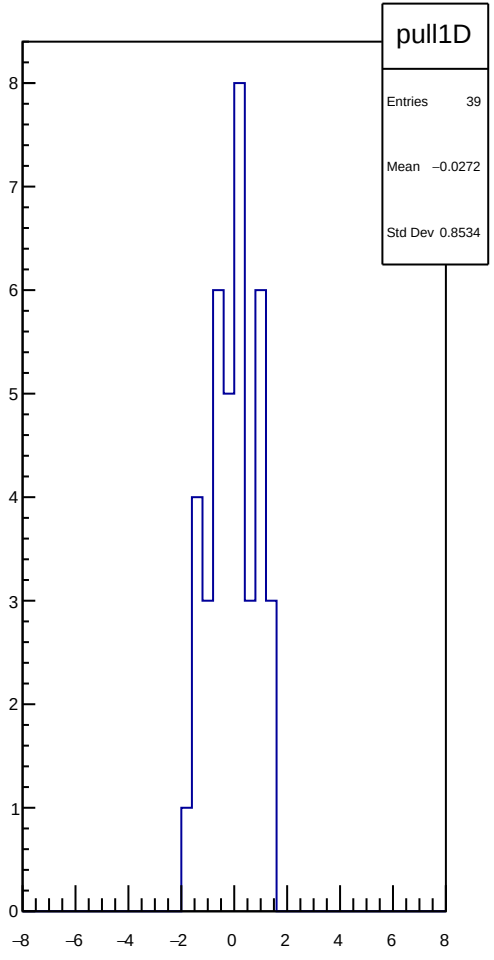

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 3.27e+04 / 38
p0 579.8 ± 0.6808
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

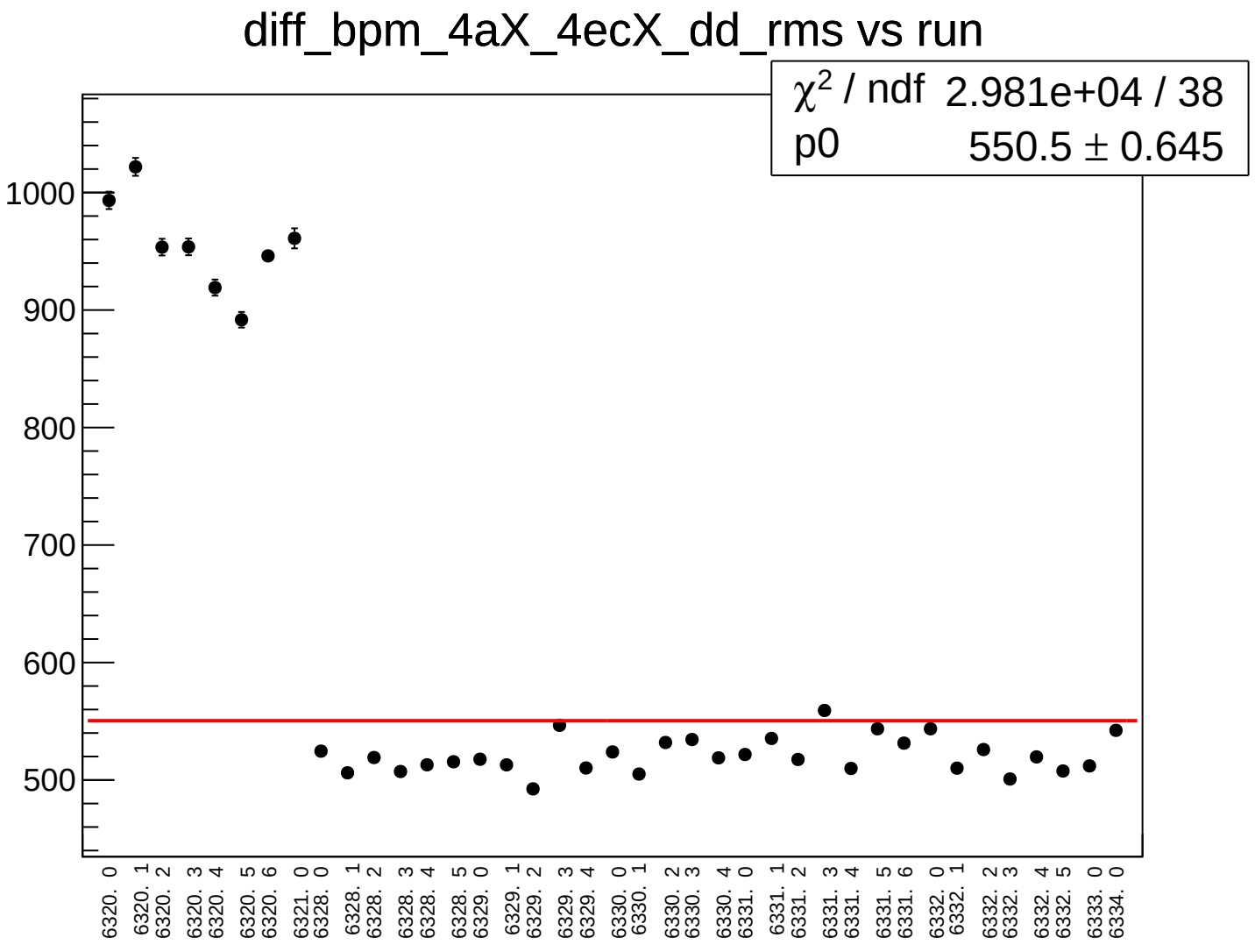

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 33.28 / 38
p0 −17.96 ± 17.96
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.445
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

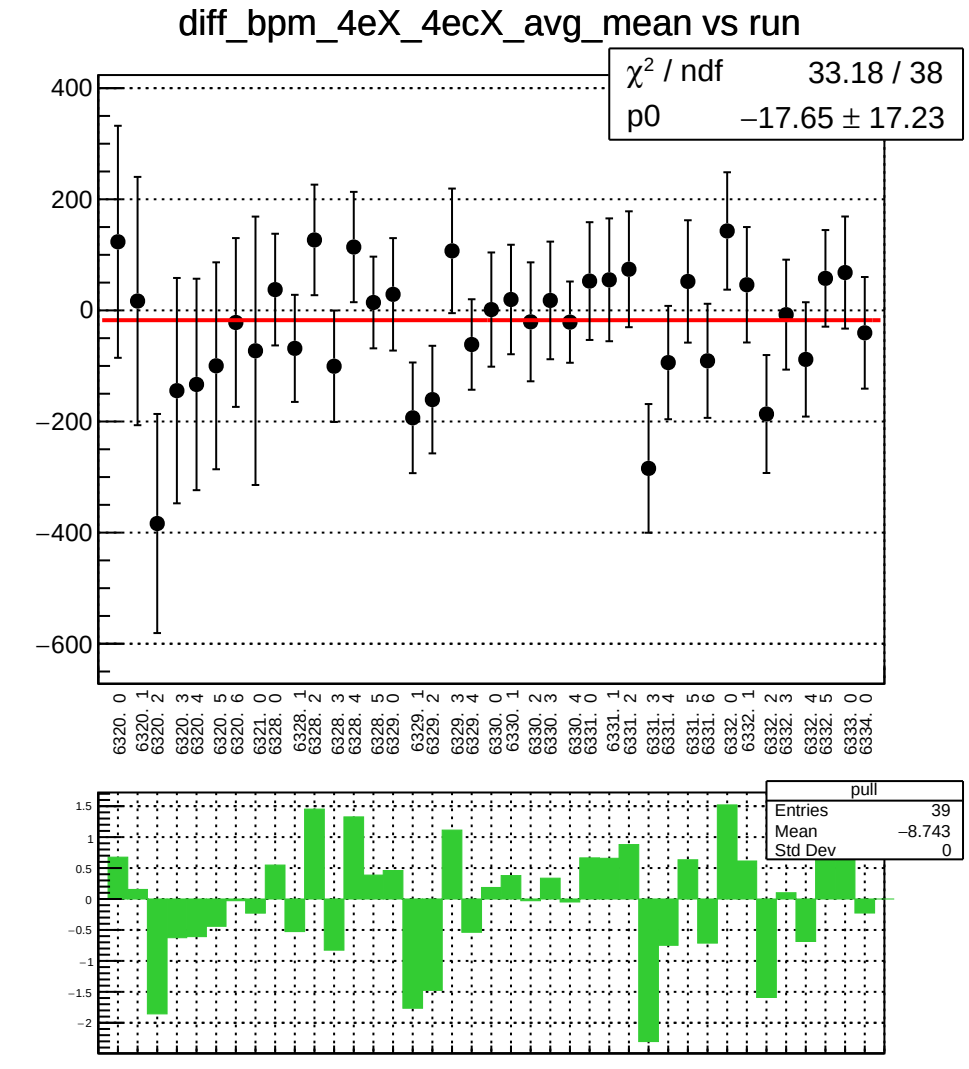

pull1D
Entries 39
Mean −0.03795
Std Dev 0.923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

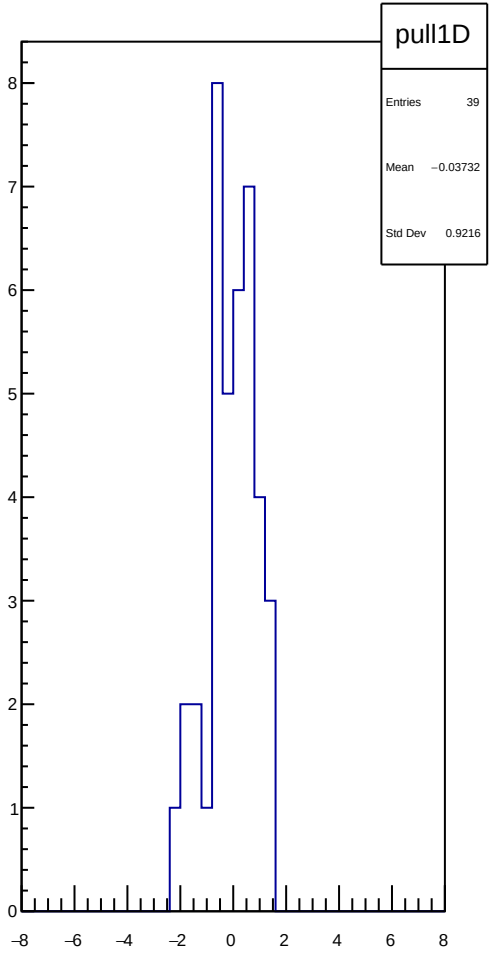

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3.595e+04 / 38
p0 1.079e+04 ± 12.7
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

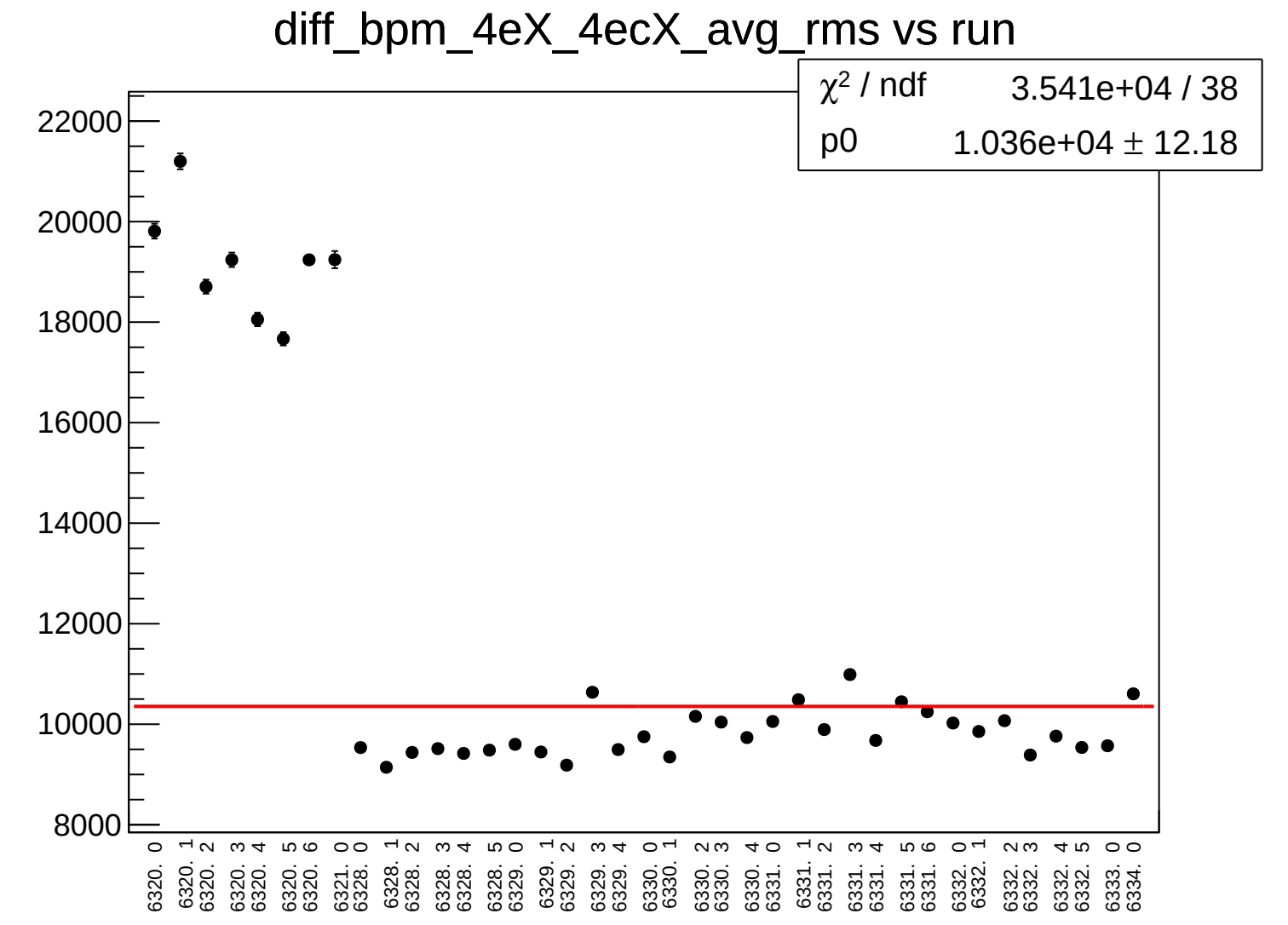

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 28.43 / 38
p0 −0.3012 ± 0.9122
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −34.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

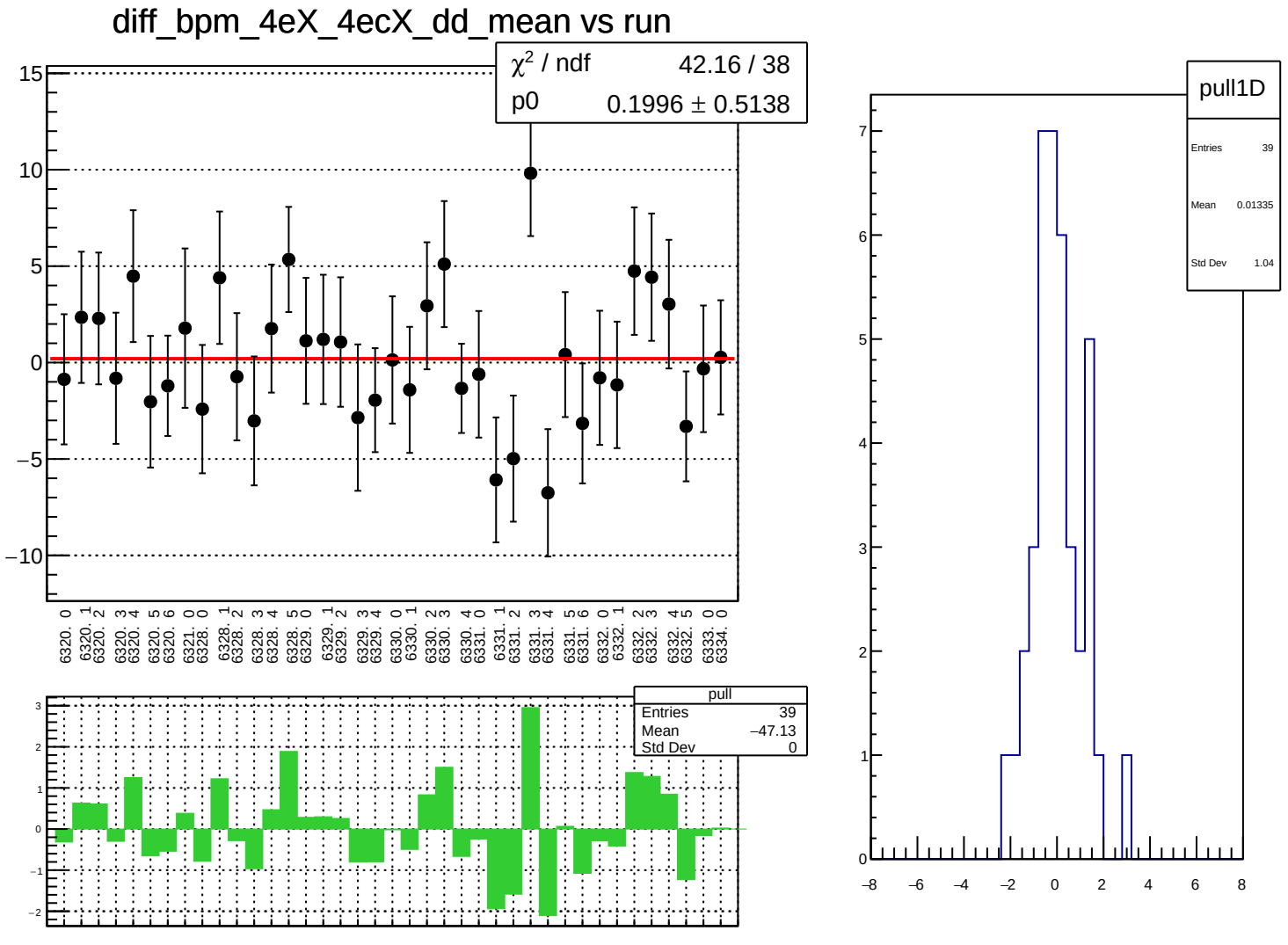

pull1D
Entries 39
Mean −0.0272
Std Dev 0.8534
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

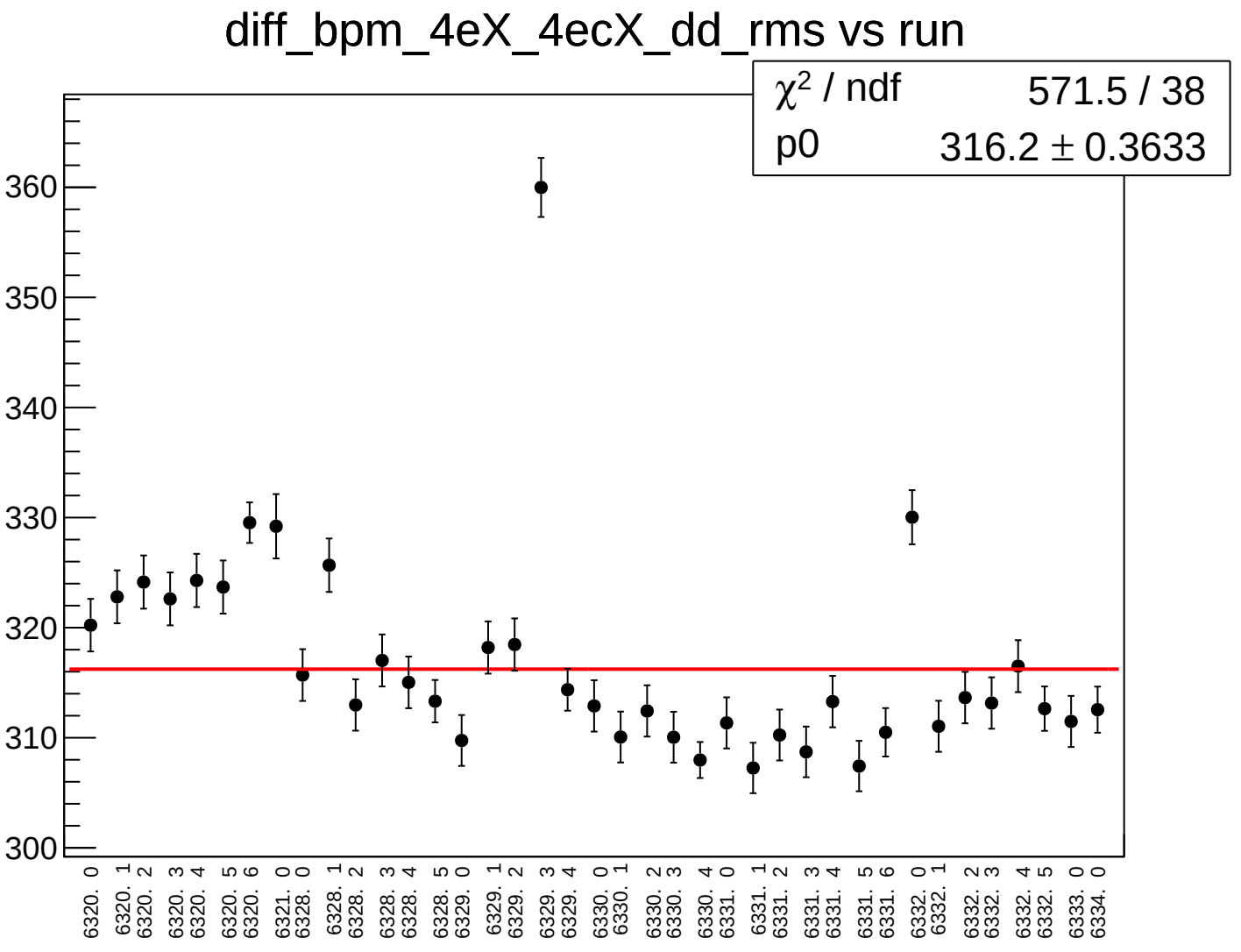

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2.981e+04 / 38
p0 550.5 ± 0.645
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

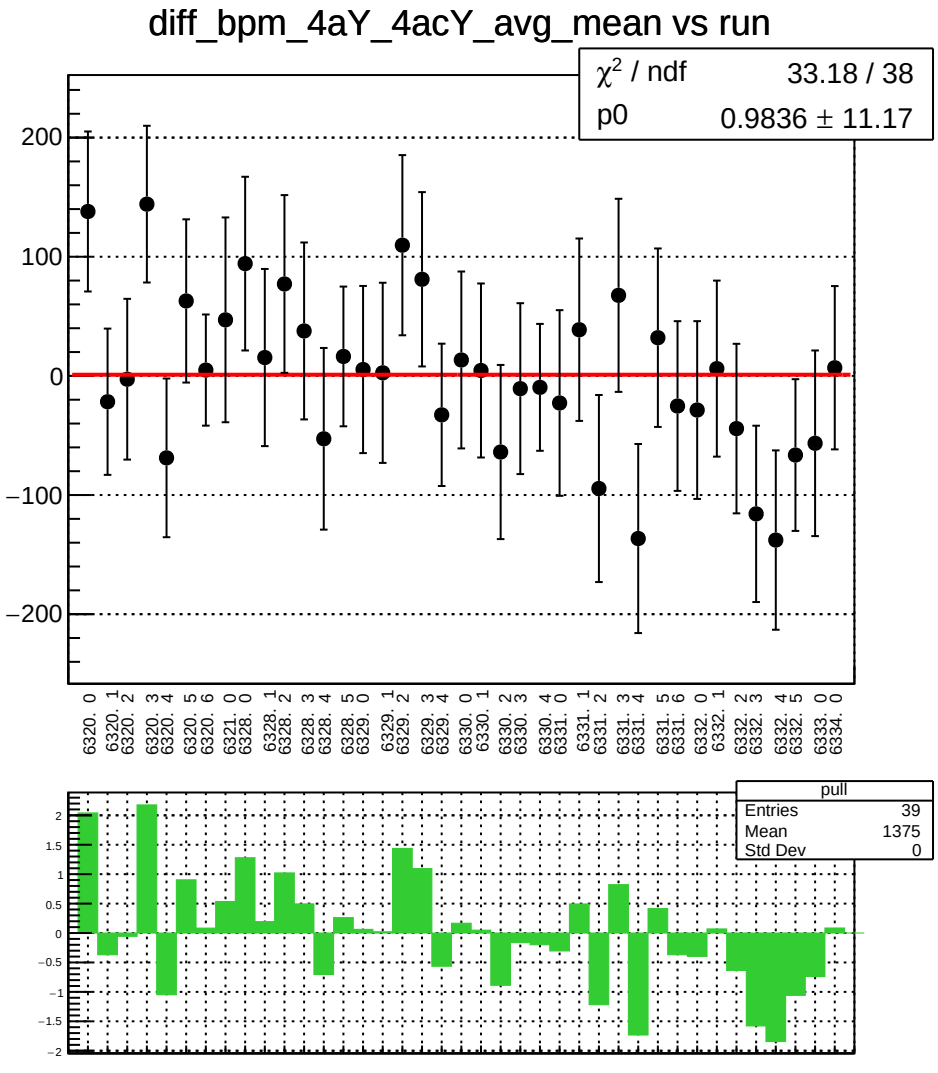

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 33.18 / 38
p0 −17.65 ± 17.23
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.743
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

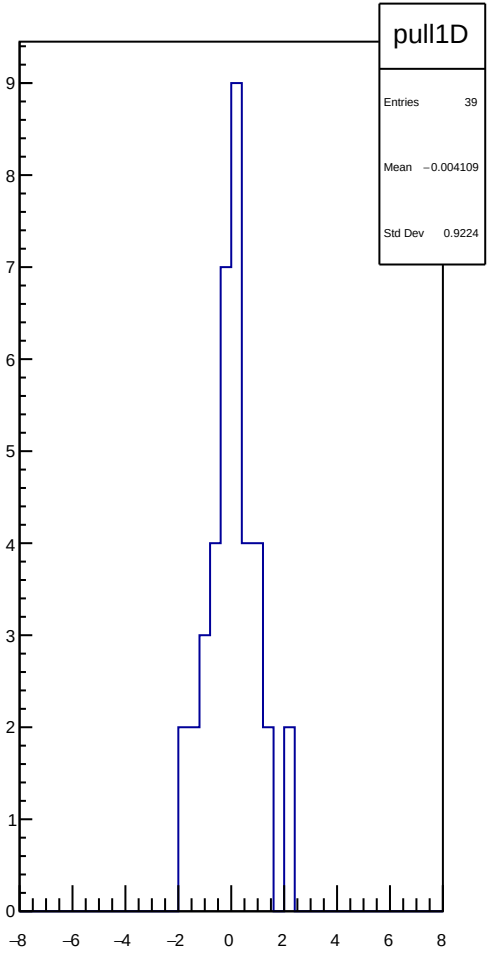

pull1D
Entries 39
Mean −0.03732
Std Dev 0.9216
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

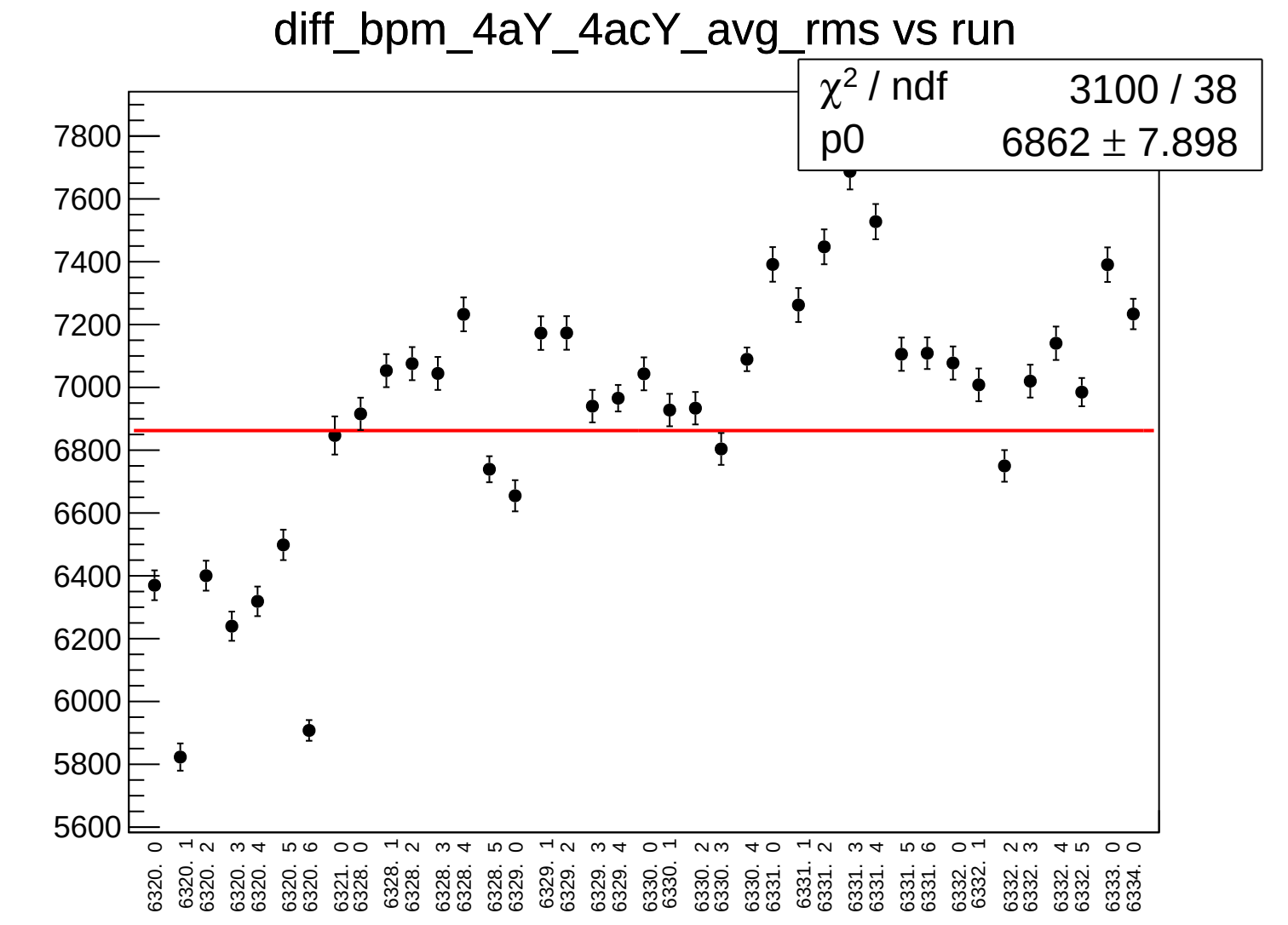

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3.541e+04 / 38
p0 1.036e+04 ± 12.18
22000
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

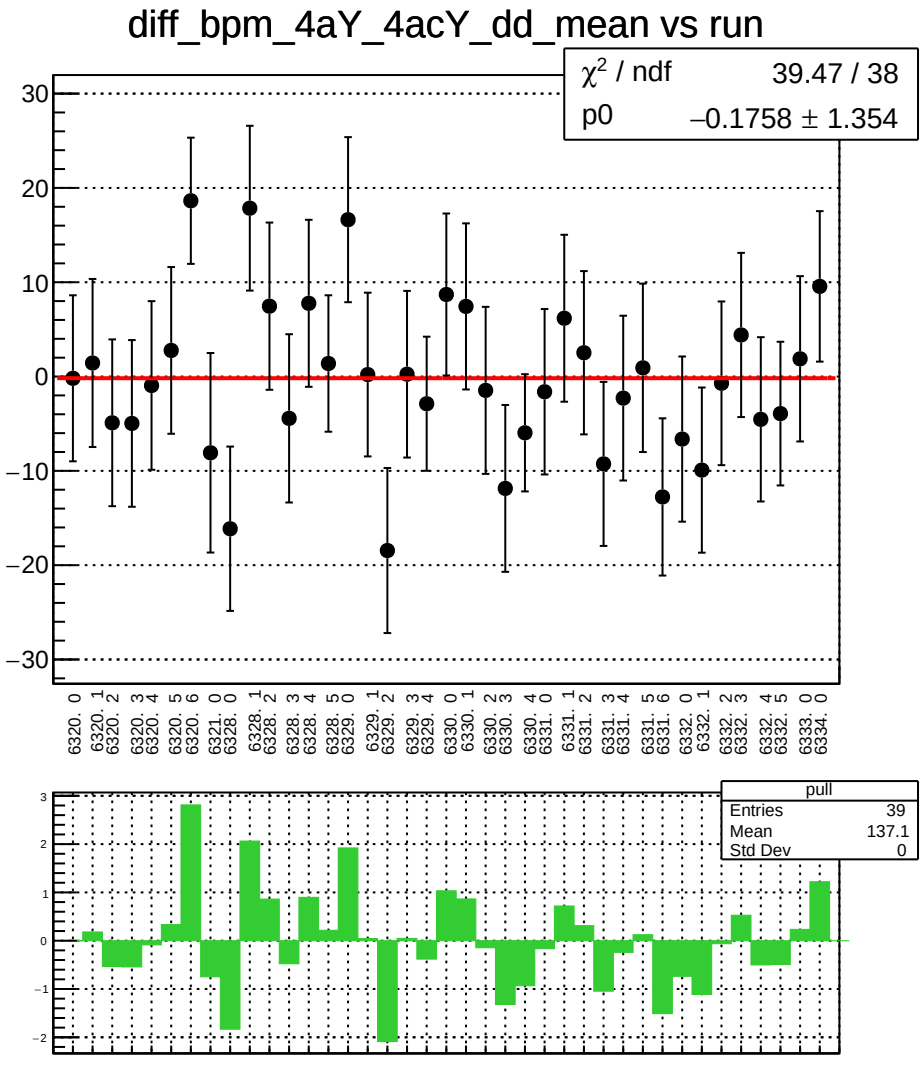

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 42.16 / 38
p0 0.1996 ± 0.5138
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.13
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01335
Std Dev 1.04
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

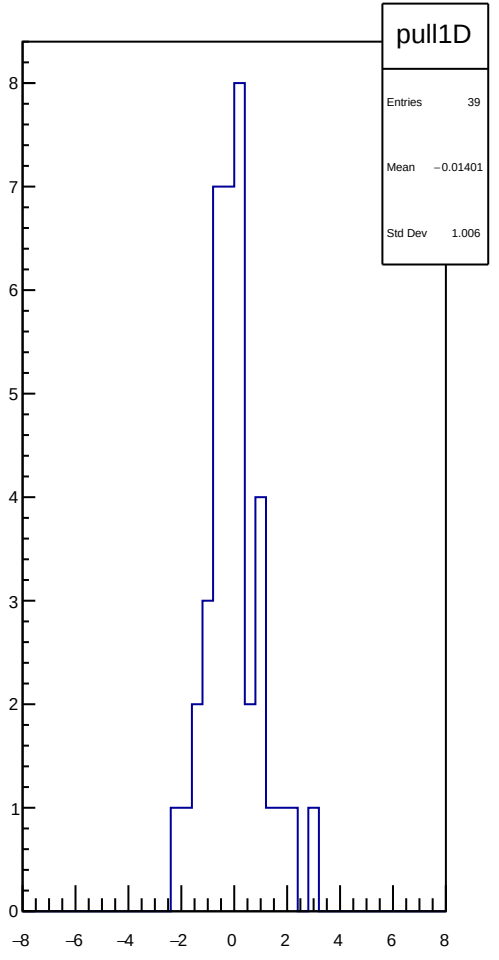

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 571.5 / 38
p0 316.2 ± 0.3633
360
350
340
330
320
310
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

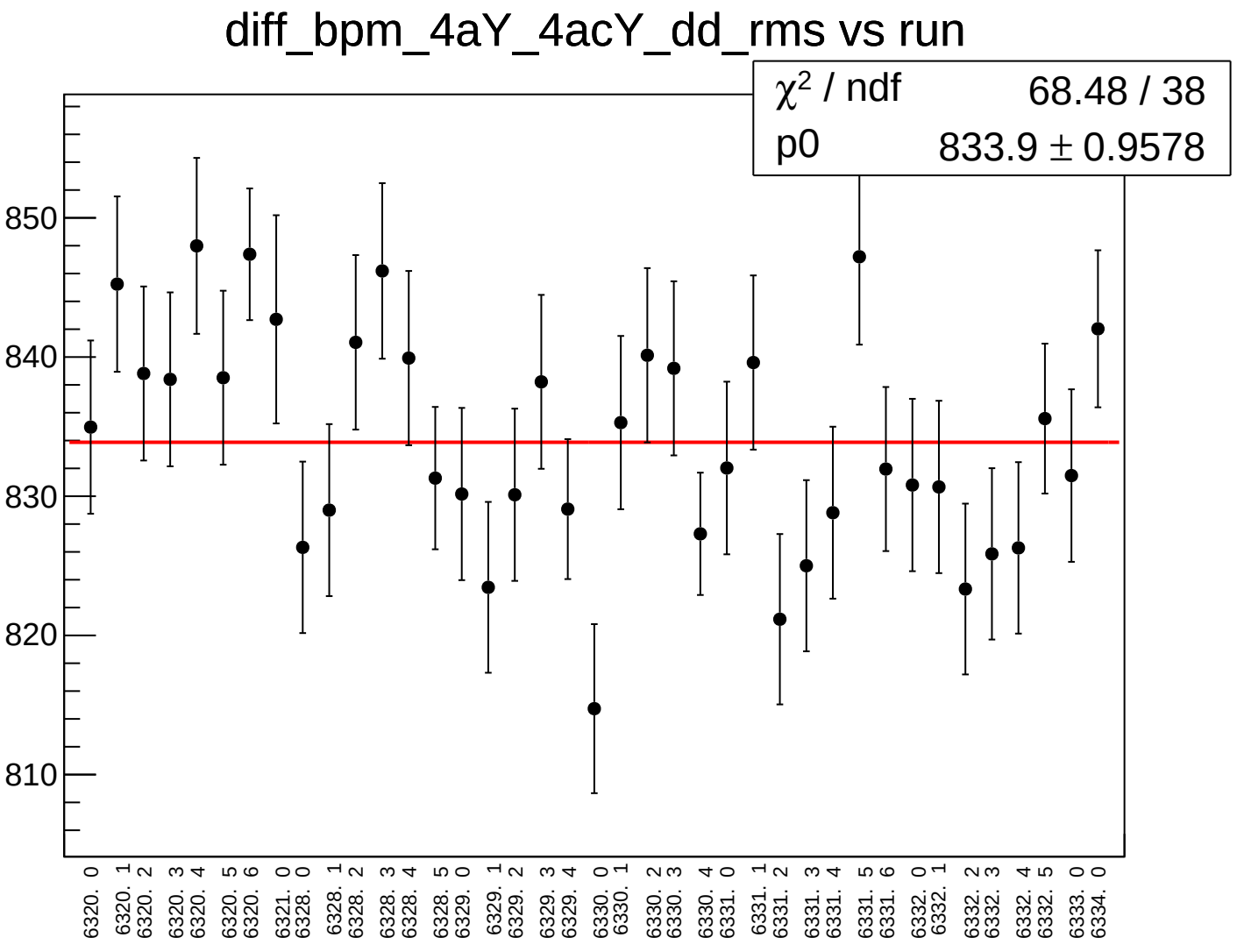

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 33.18 / 38
p0 0.9836 ± 11.17
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1375
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

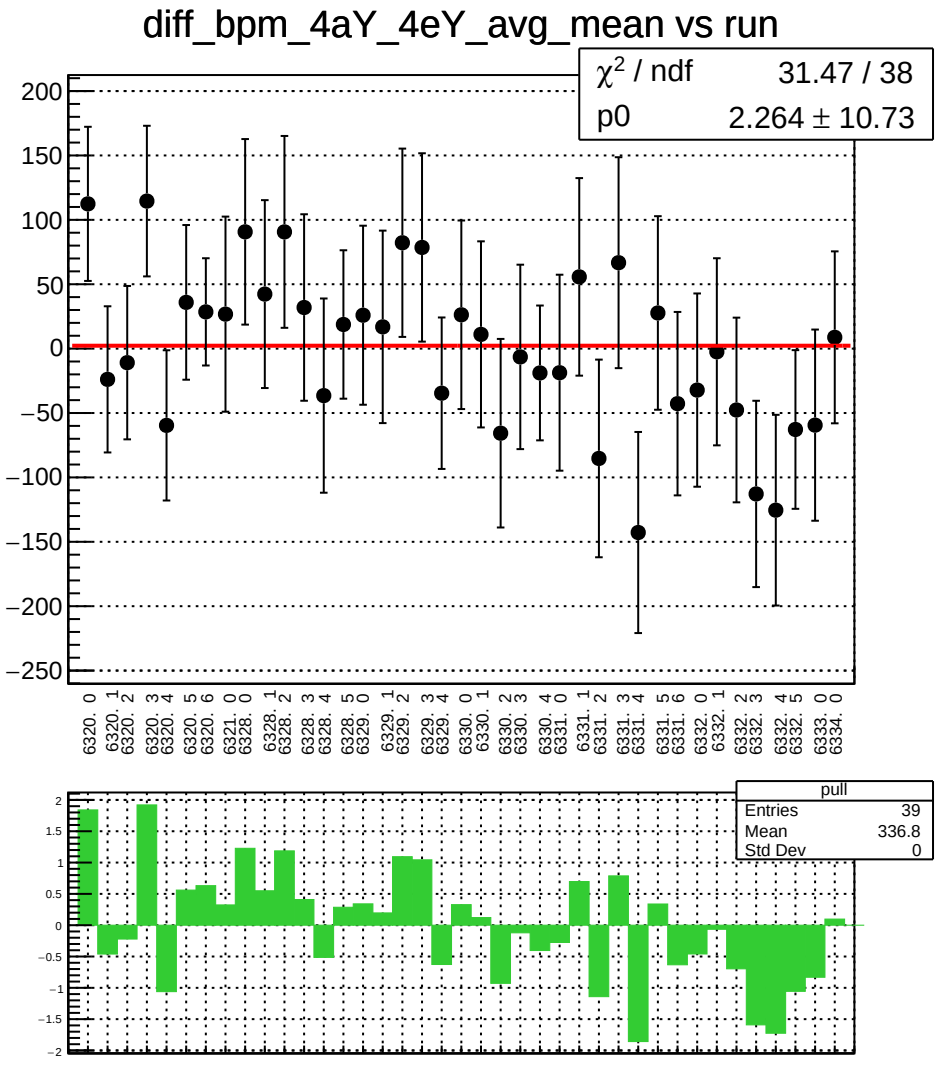

pull1D
Entries 39
Mean −0.004109
Std Dev 0.9224
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

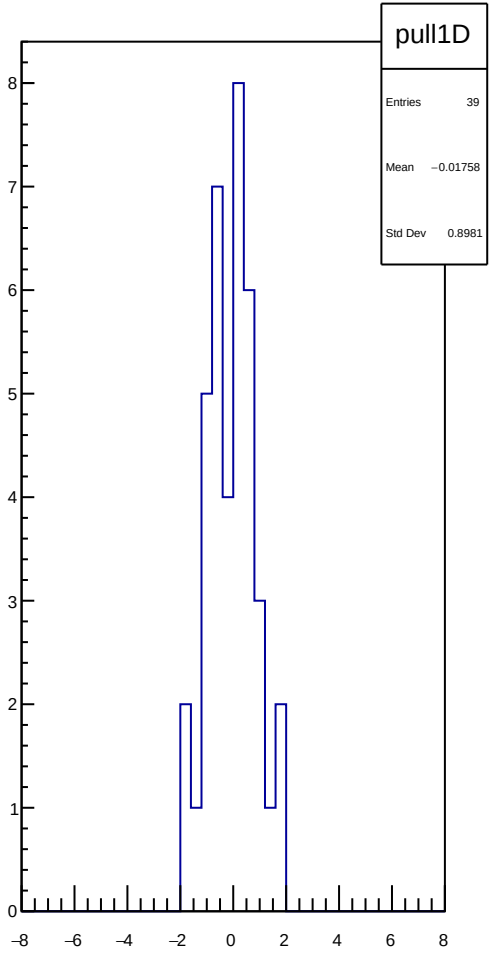

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3100 / 38
p0 6862 ± 7.898
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

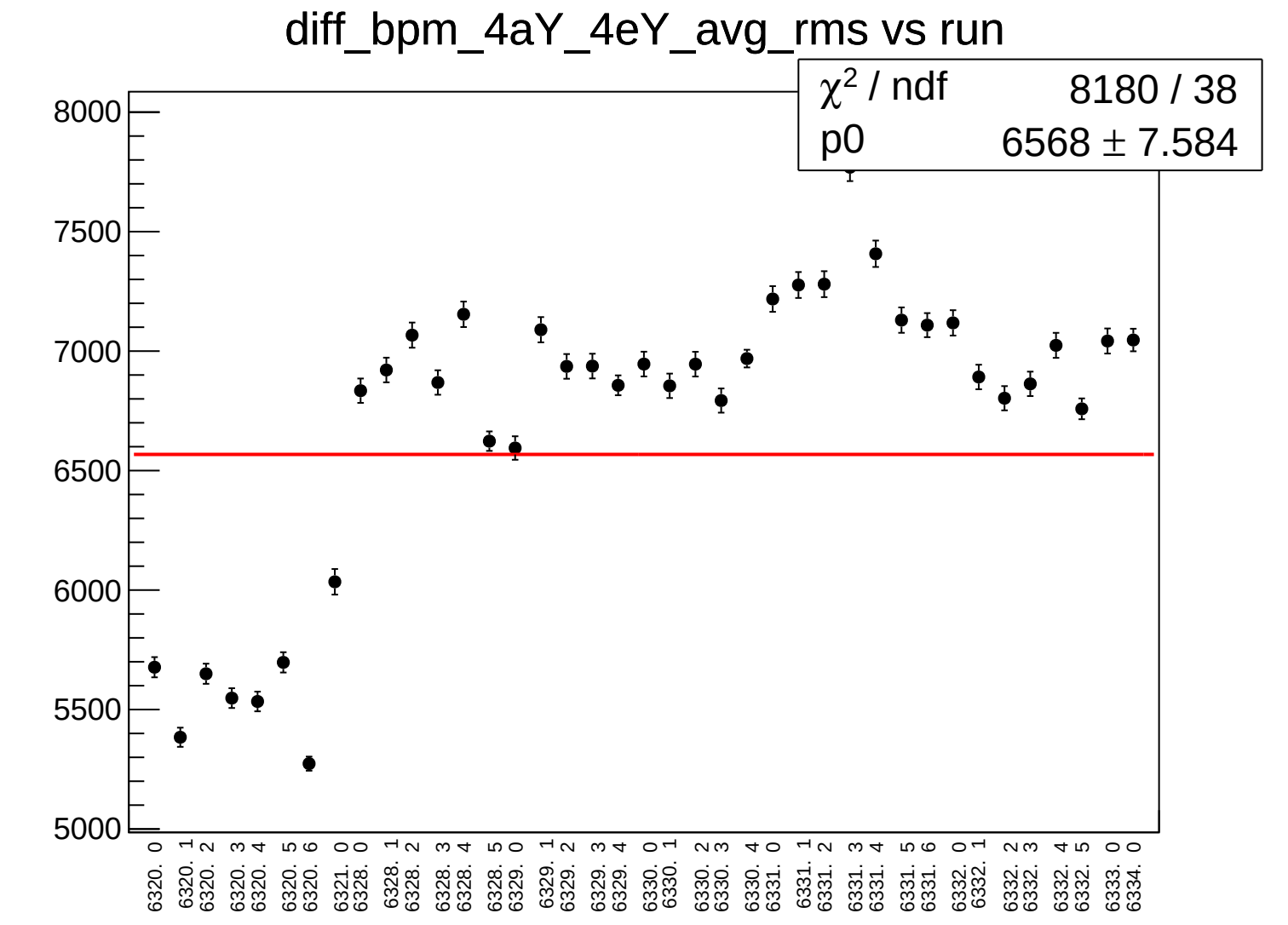

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 39.47 / 38
p0 −0.1758 ± 1.354
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 137.1
Std Dev 0
3
2
1
0
−1
−2

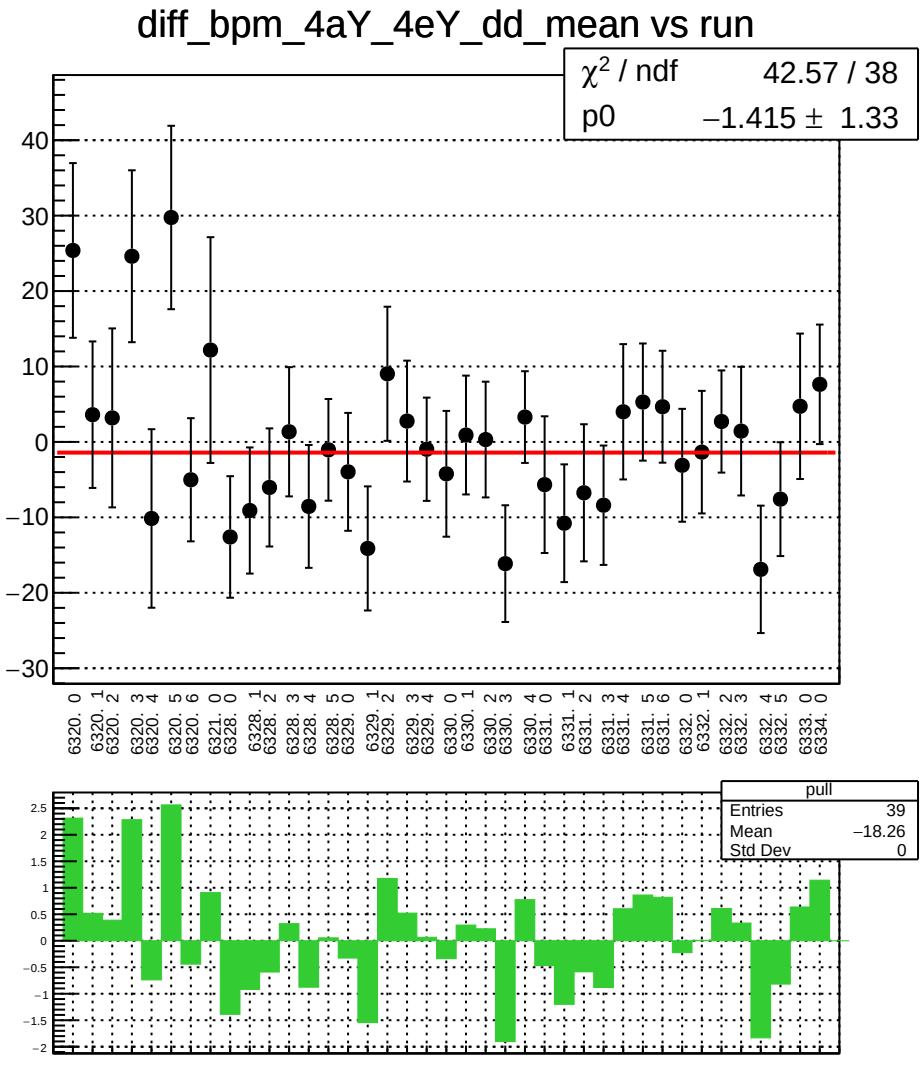

pull1D
Entries 39
Mean −0.01401
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

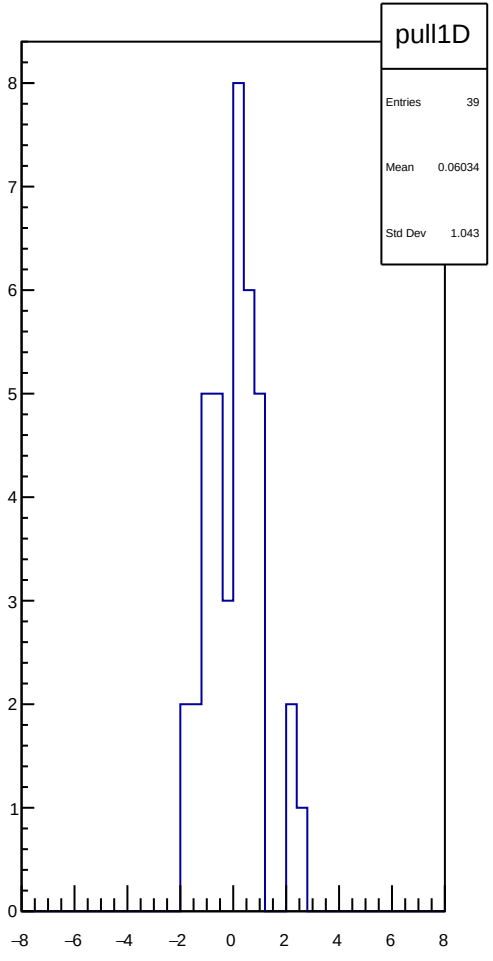

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 68.48 / 38
p0 833.9 ± 0.9578
850
840
830
820
810
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

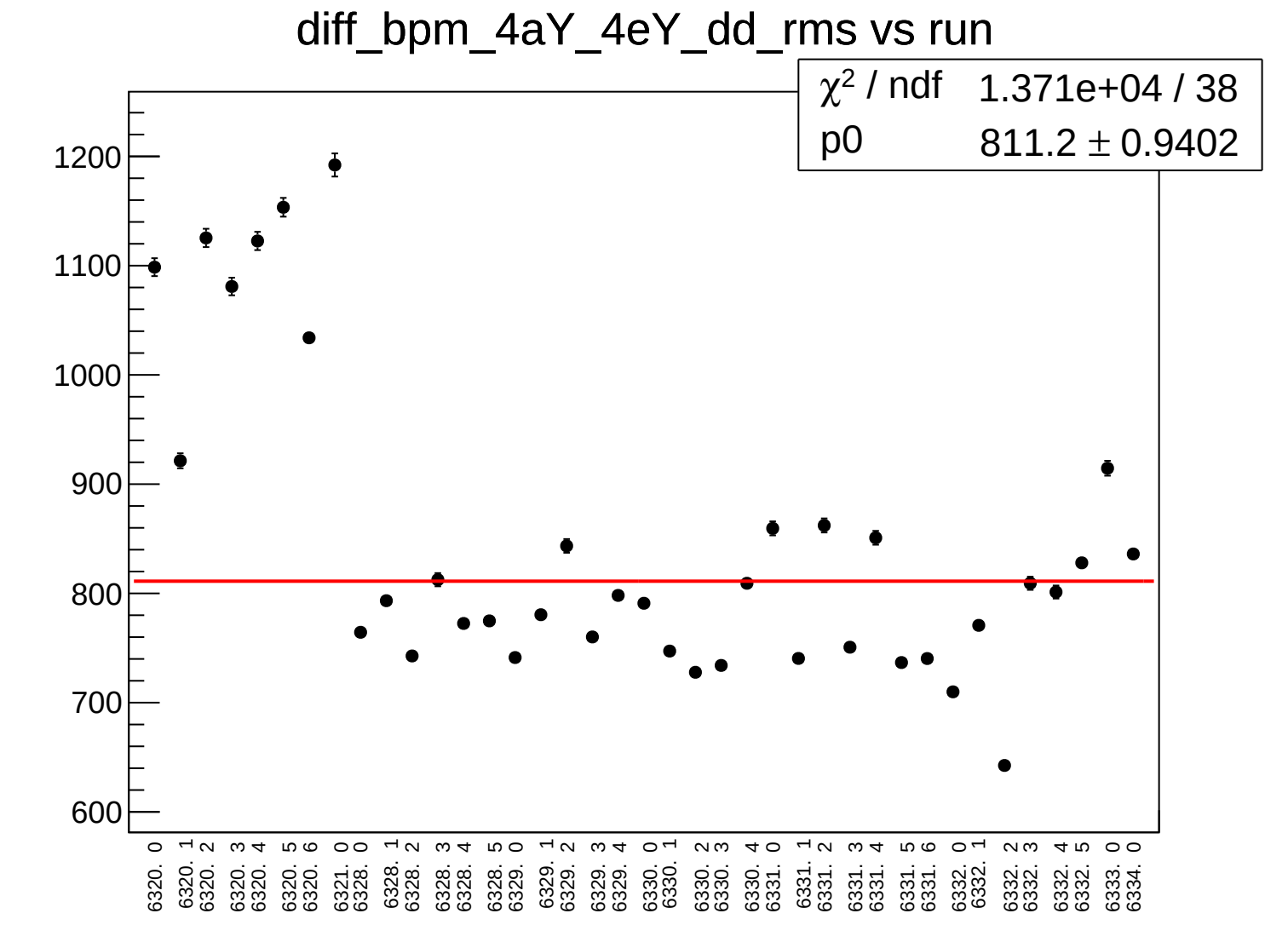

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 31.47 / 38
p0 2.264 ± 10.73
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 336.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

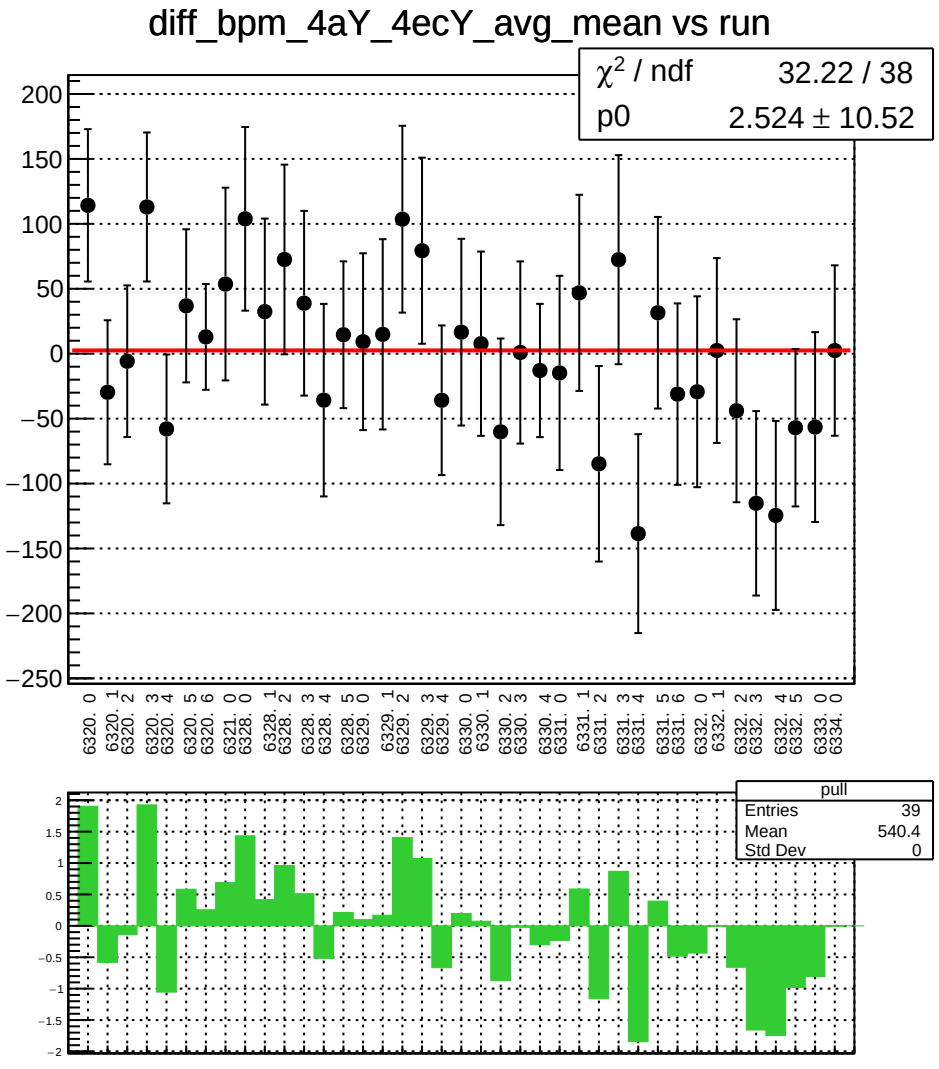

pull1D
Entries 39
Mean −0.01758
Std Dev 0.8981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

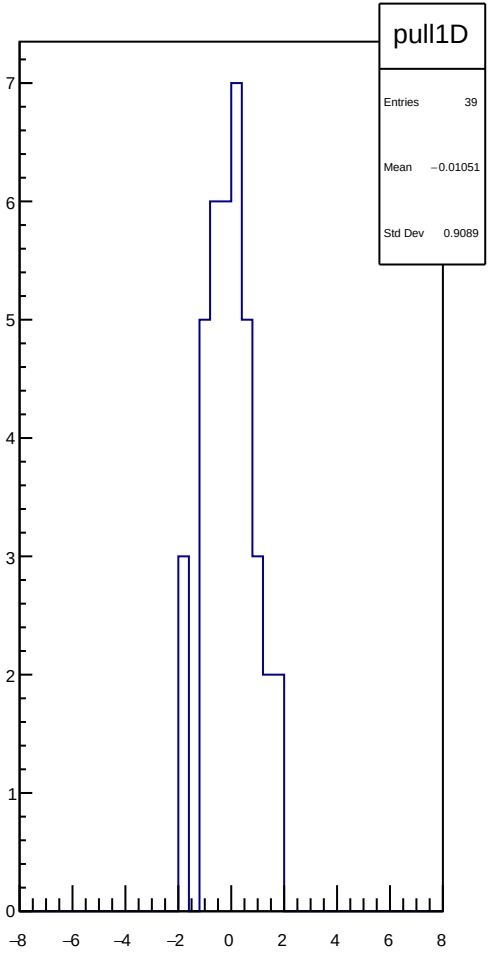

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 8180 / 38
p0 6568 ± 7.584
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

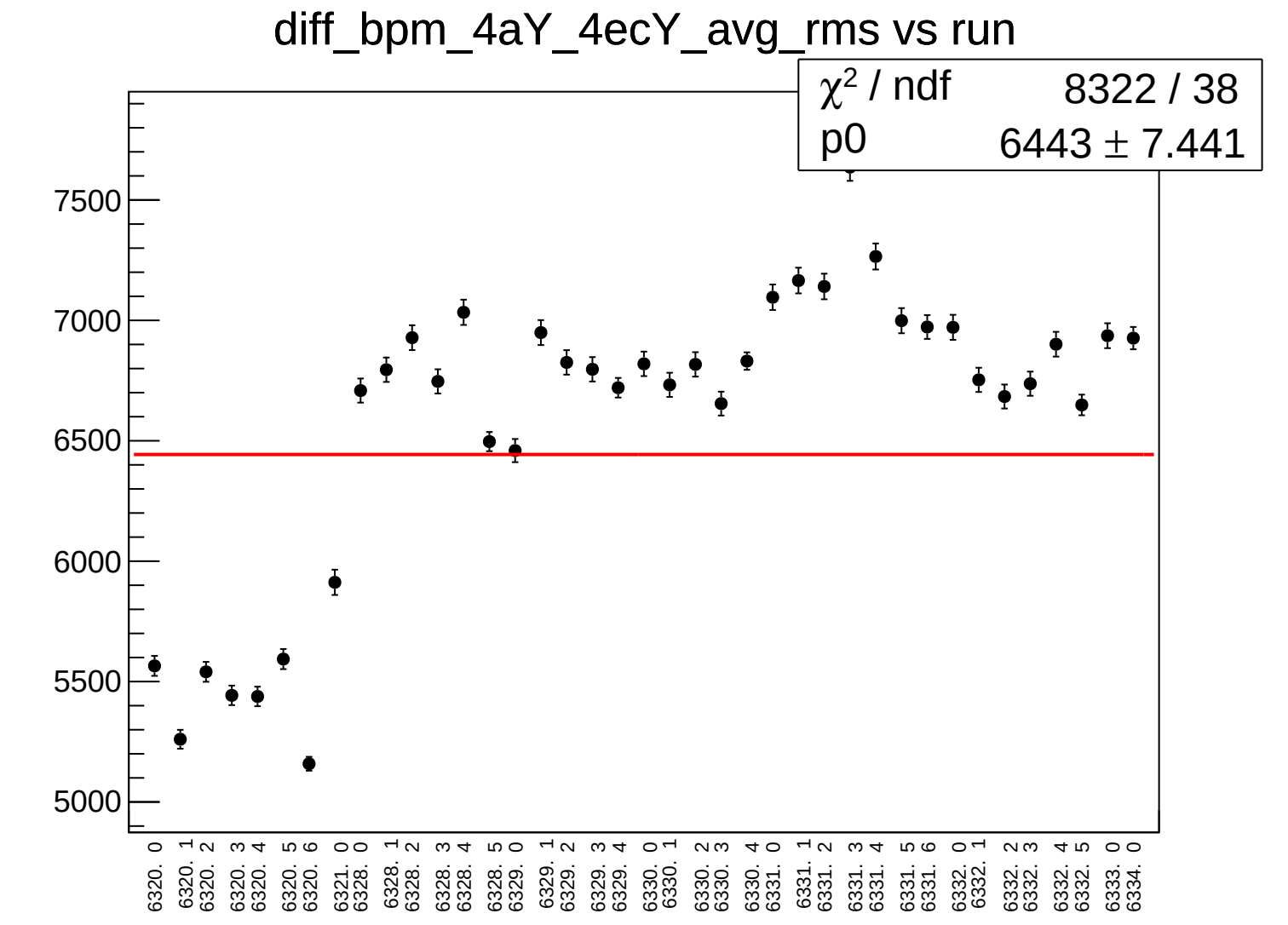

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 42.57 / 38
p0 −1.415 ± 1.33
pull
Entries 39
Mean −18.26
Std Dev 0

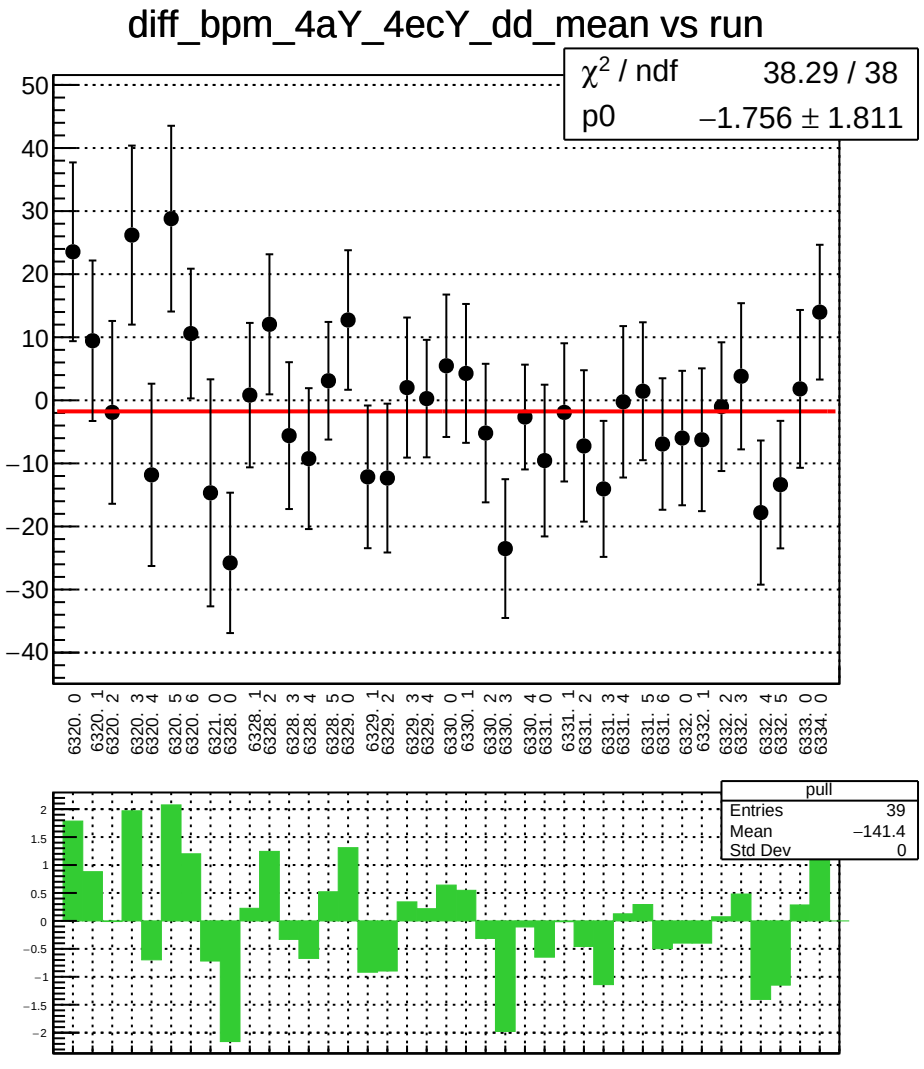

pull1D
Entries 39
Mean 0.06034
Std Dev 1.043

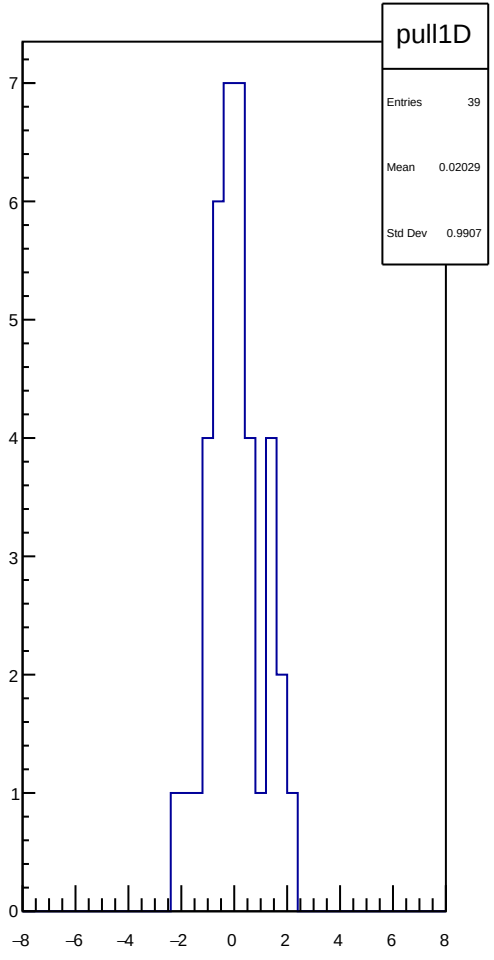

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.371e+04 / 38
p0 811.2 ± 0.9402
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

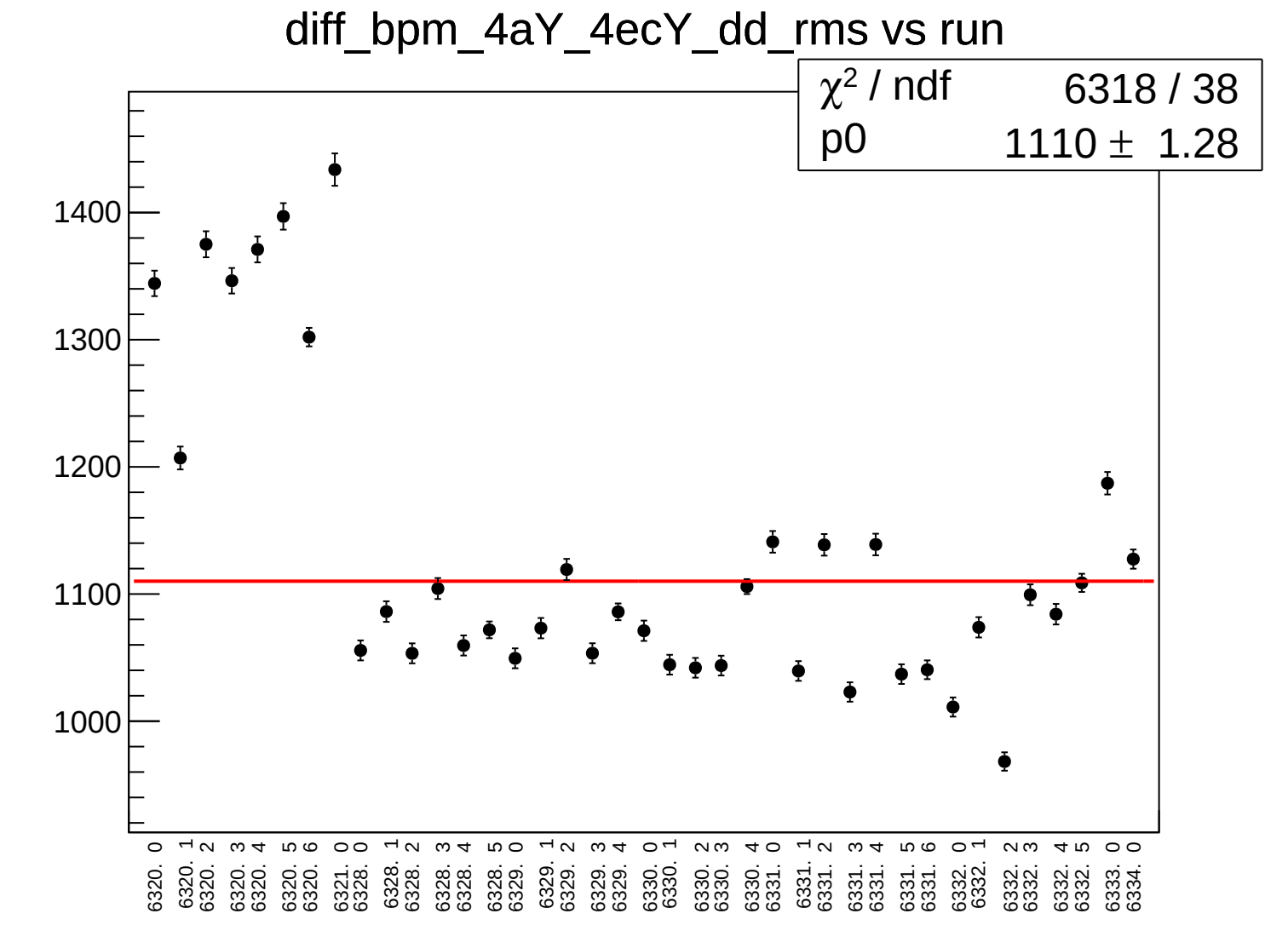

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 32.22 / 38
p0 2.524 ± 10.52
pull
Entries 39
Mean 540.4
Std Dev 0

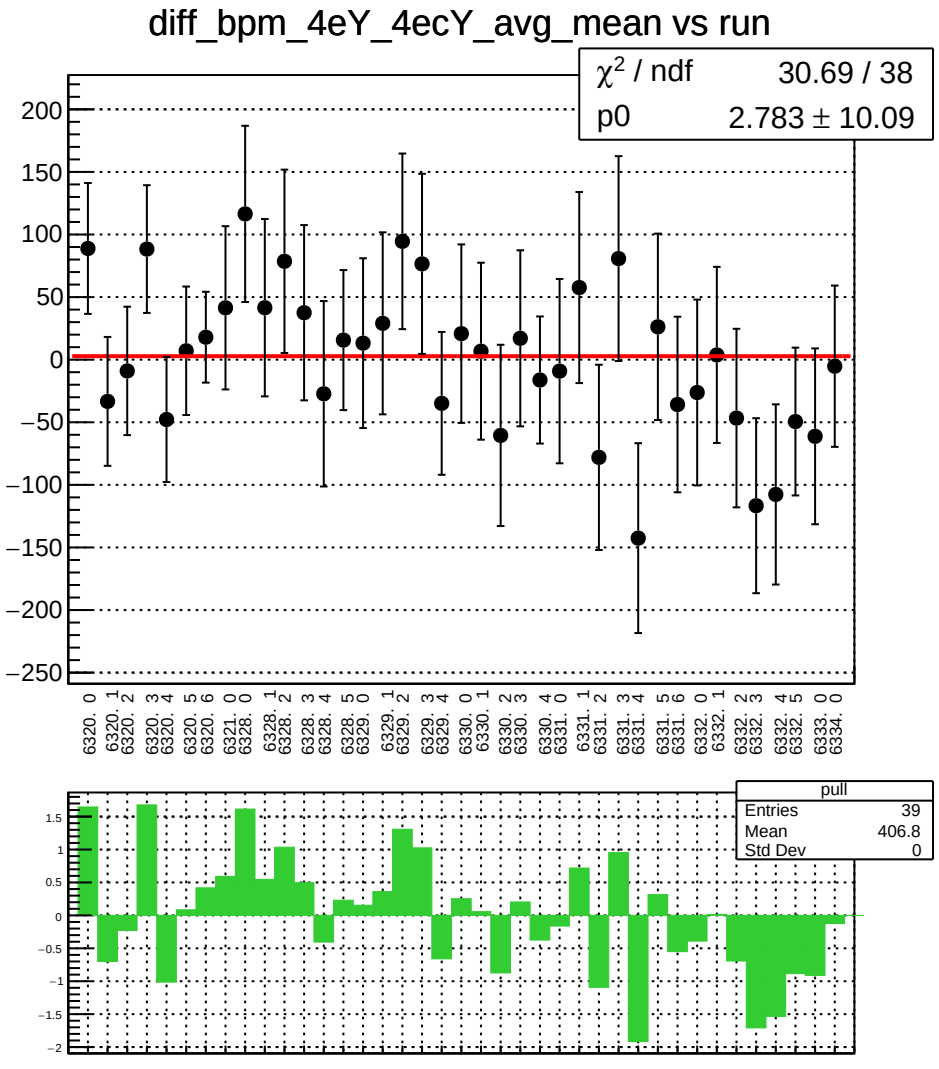

pull1D
Entries 39
Mean −0.01051
Std Dev 0.9089

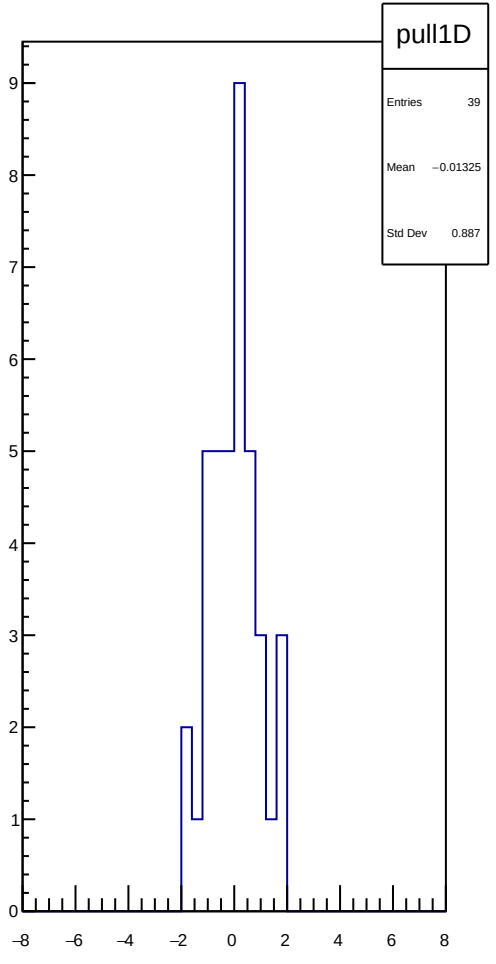

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 8322 / 38
p0 6443 ± 7.441
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

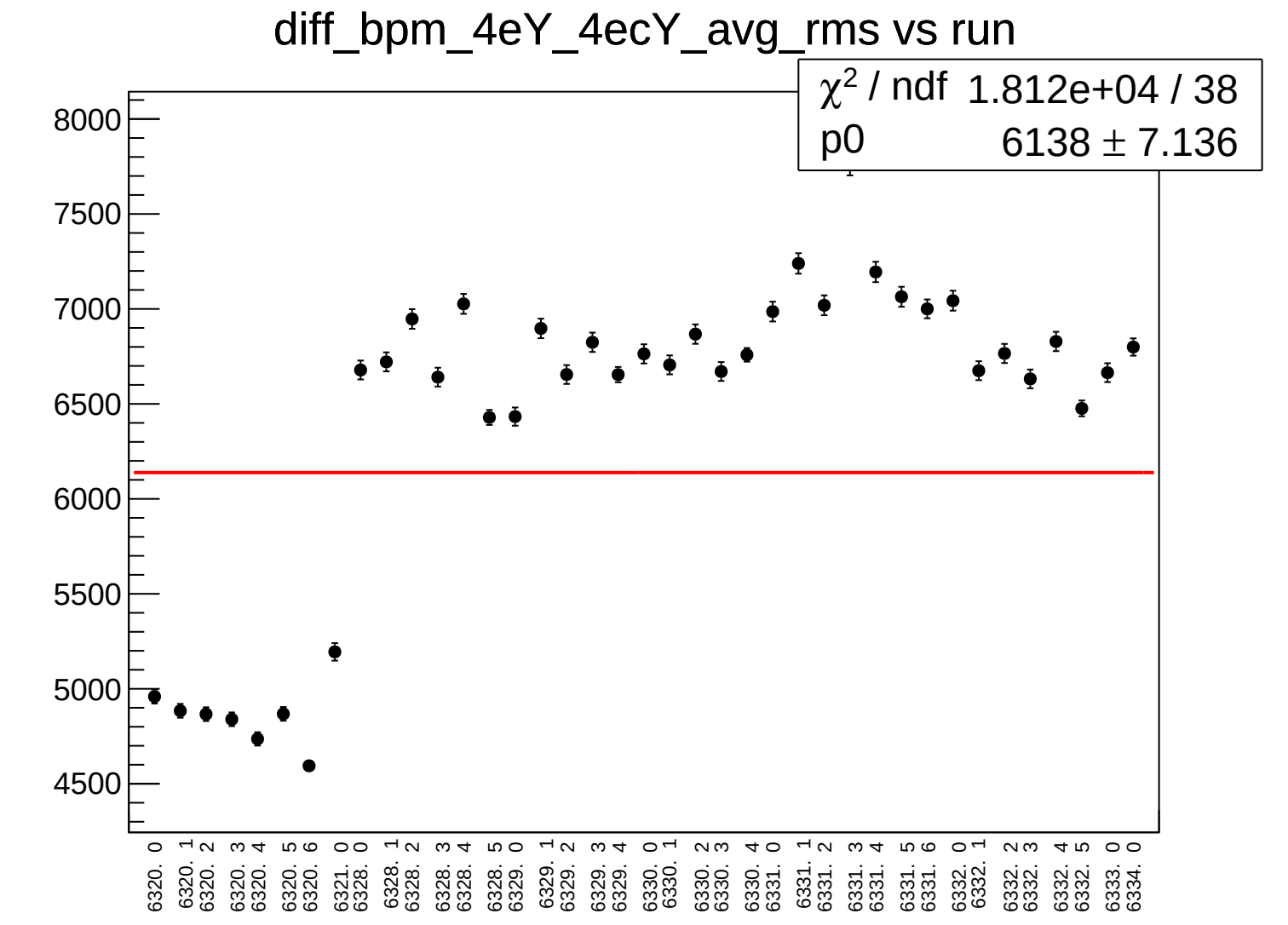

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 38.29 / 38
p0 −1.756 ± 1.811
pull
Entries 39
Mean −141.4
Std Dev 0

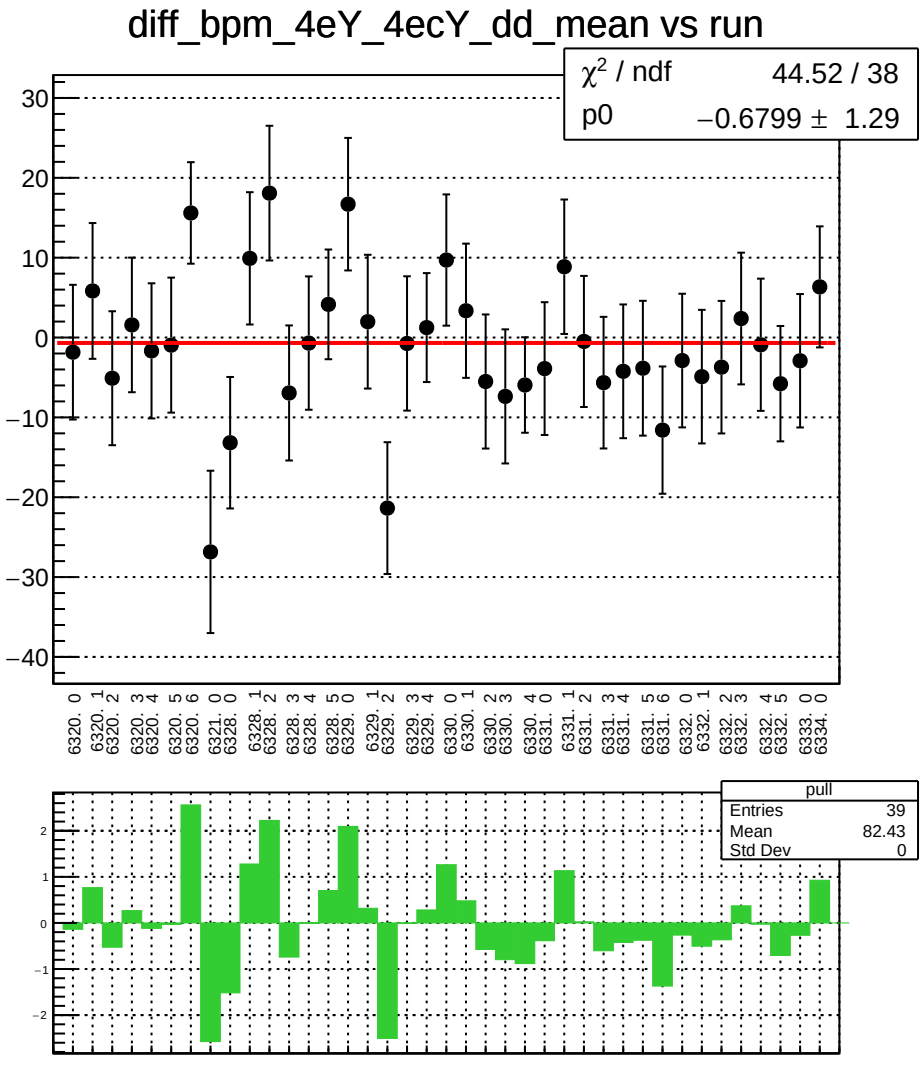

pull1D
Entries 39
Mean 0.02029
Std Dev 0.9907

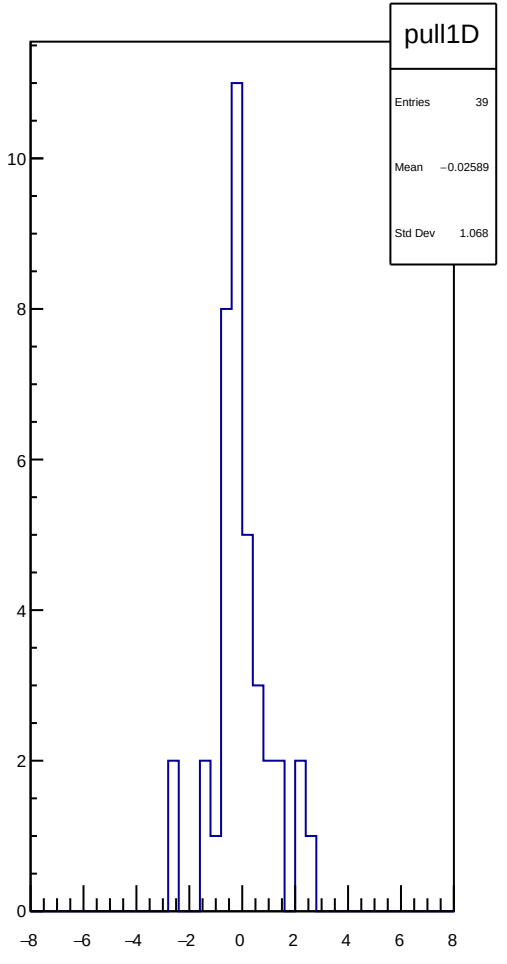

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 6318 / 38
p0 1110 ± 1.28
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

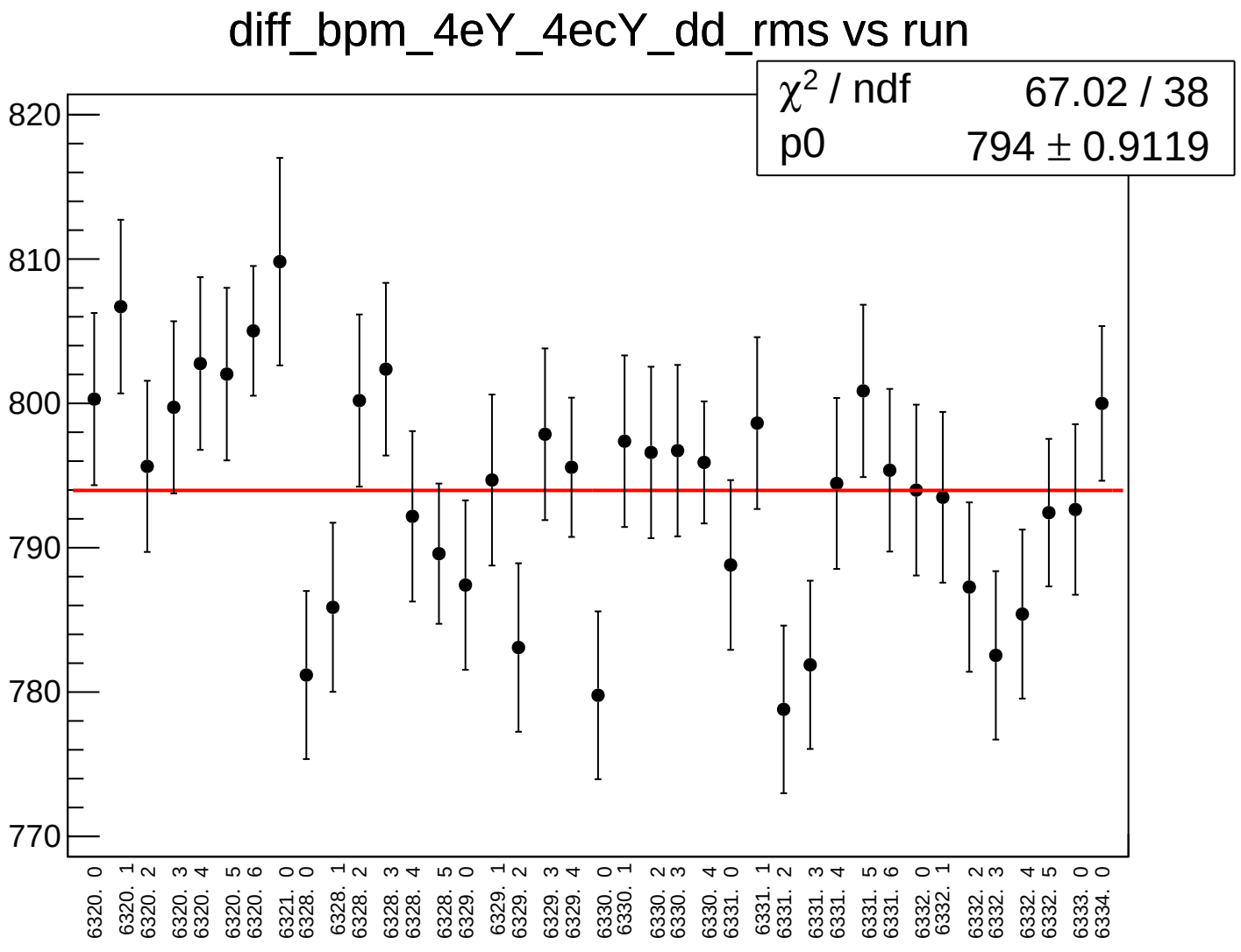

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 30.69 / 38
p0 2.783 ± 10.09
pull
Entries 39
Mean 406.8
Std Dev 0

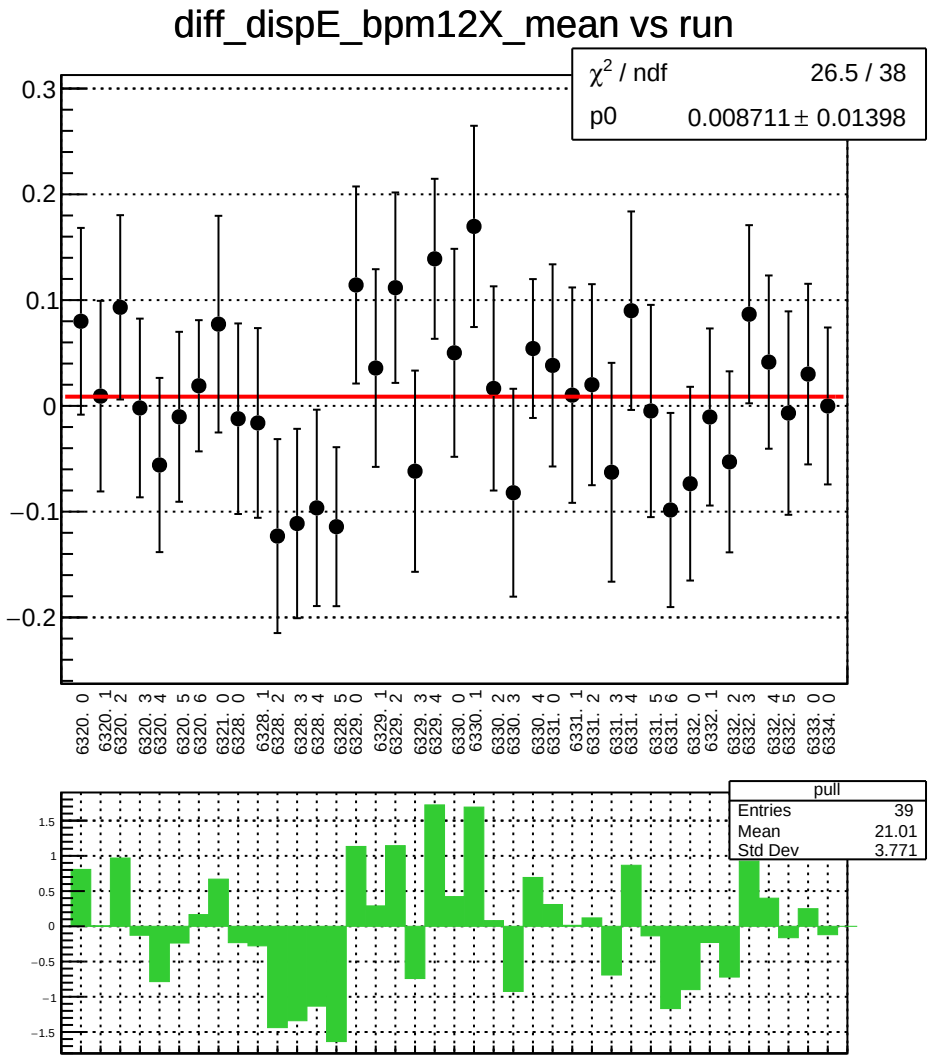

pull1D
Entries 39
Mean −0.01325
Std Dev 0.887

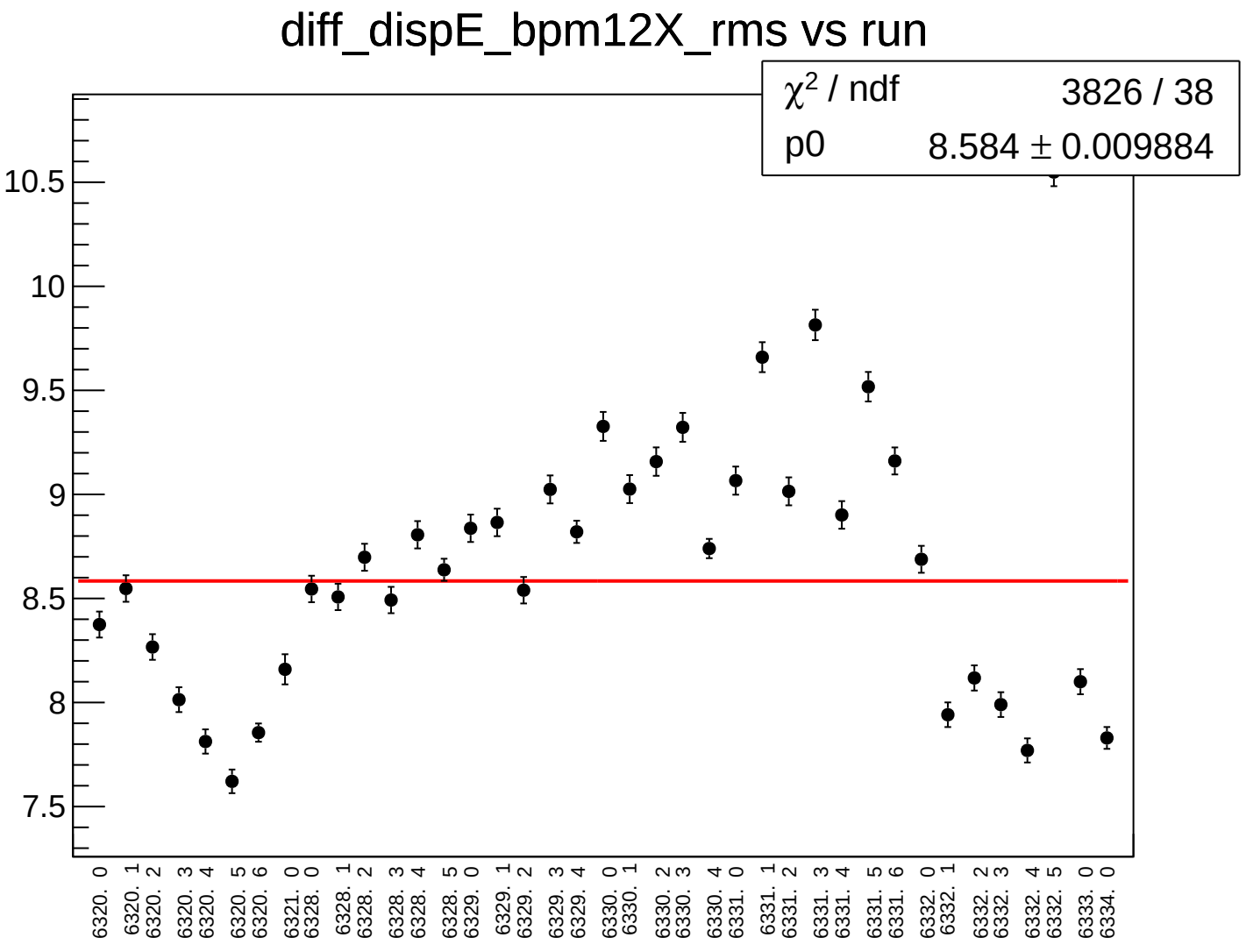

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.812e+04 / 38
p0 6138 ± 7.136
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

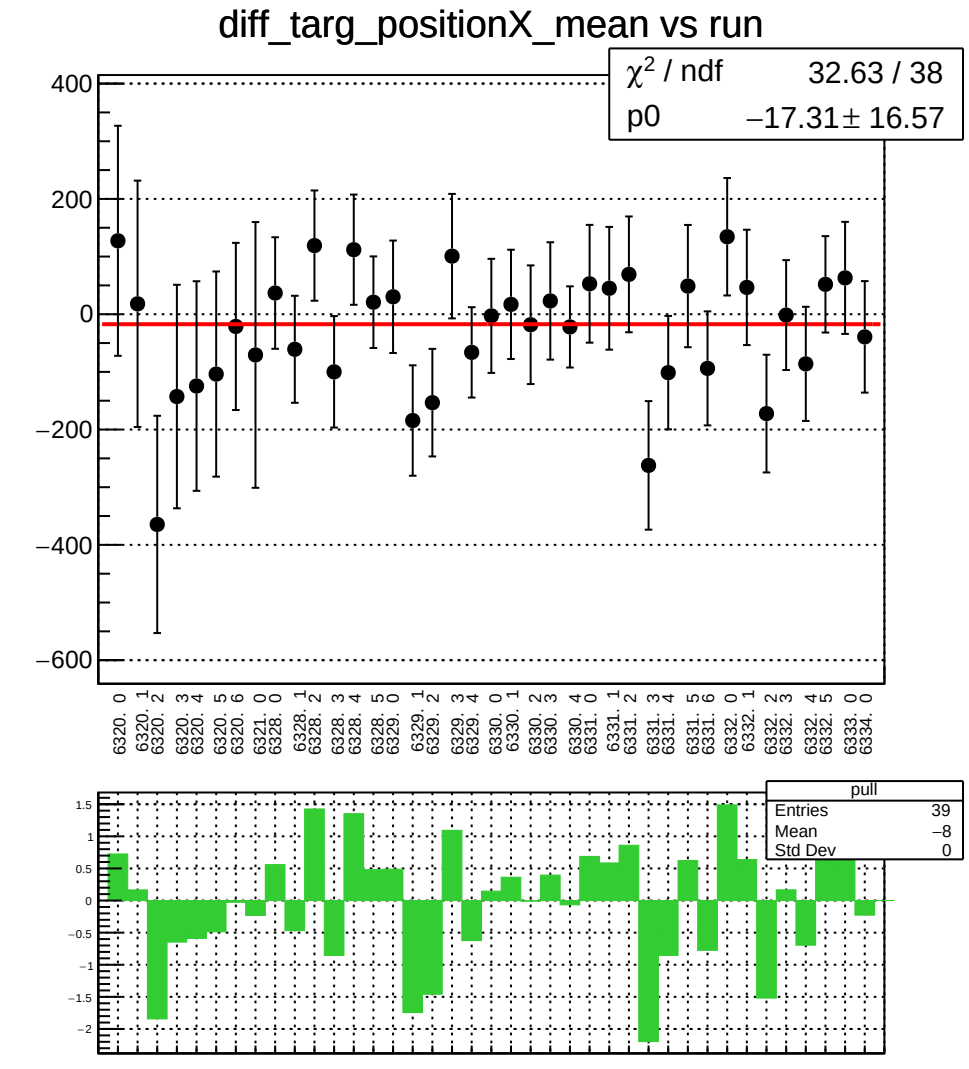

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 44.52 / 38
p0 −0.6799 ± 1.29
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 82.43
Std Dev 0
2
1
0
−1
−2

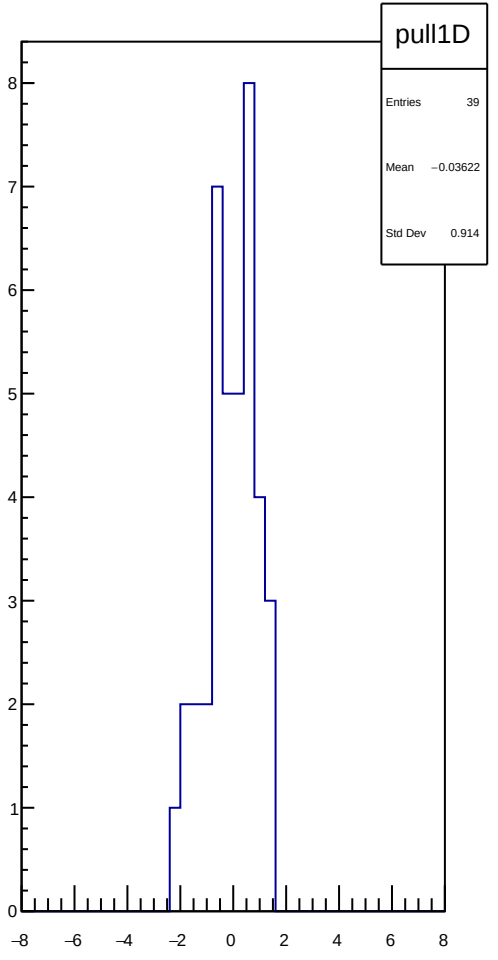

pull1D
Entries 39
Mean −0.02589
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

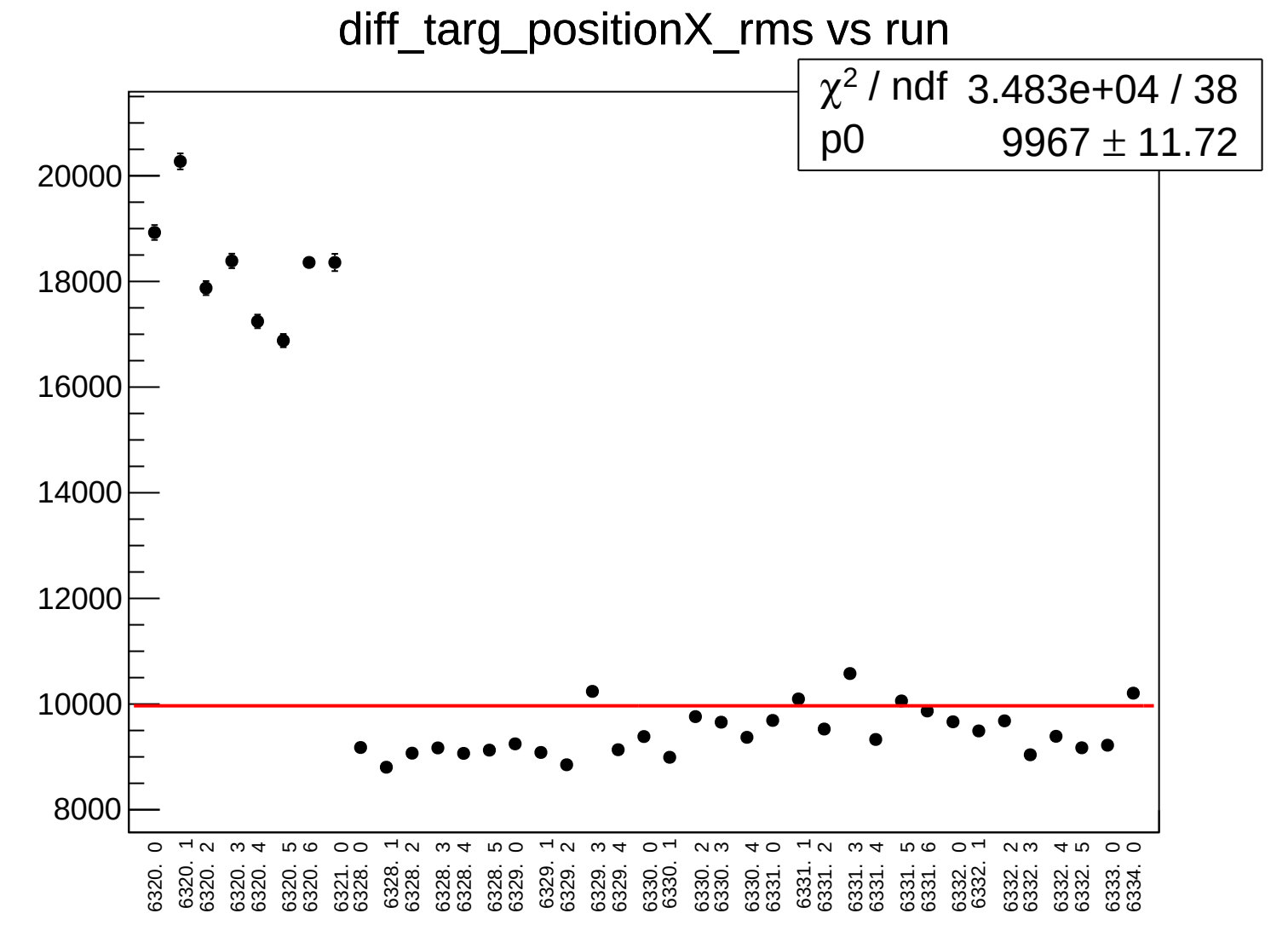

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 67.02 / 38
p0 794 ± 0.9119
820
810
800
790
780
770
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

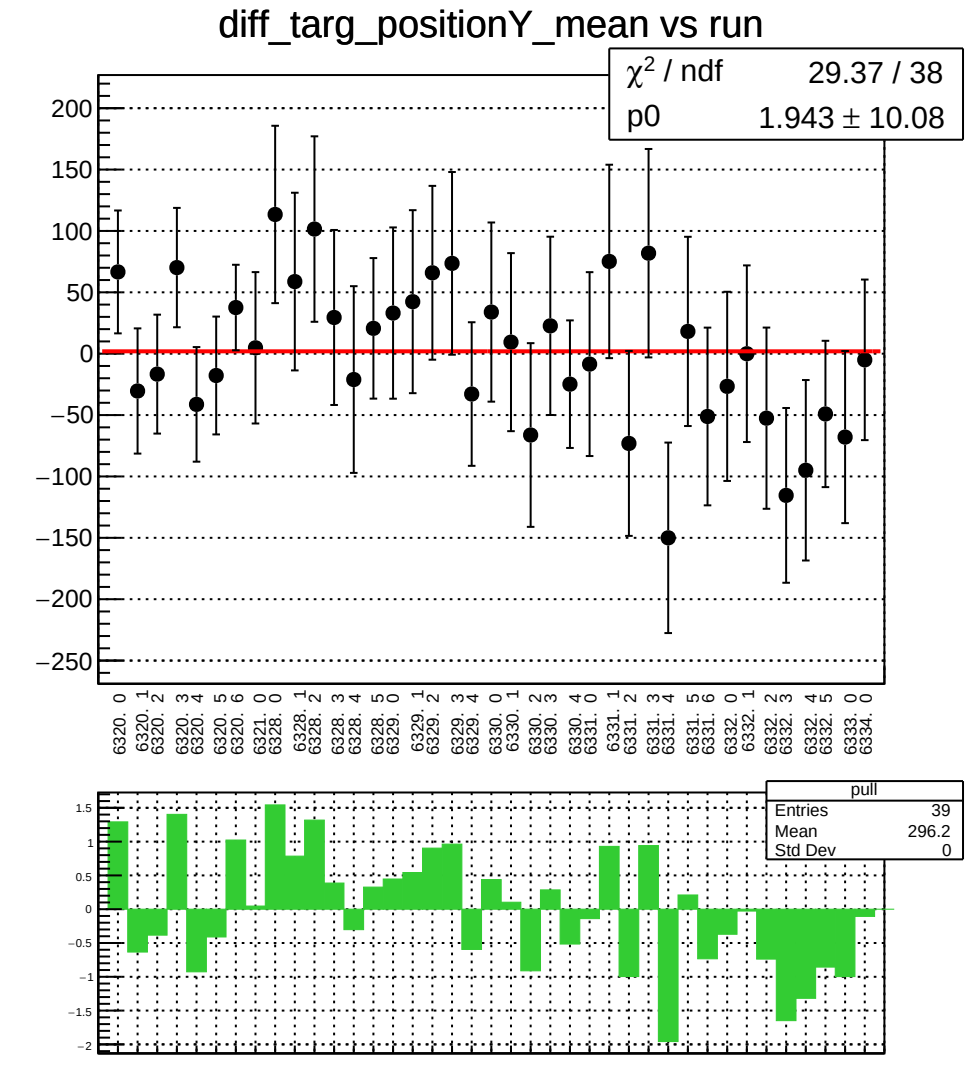

diff_dispE_bpm12X_mean vs run
χ² / ndf 26.5 / 38
p0 0.008711 ± 0.01398
0.3
0.2
0.1
0
−0.1
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.01
Std Dev 3.771
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.00793
Std Dev 0.8242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

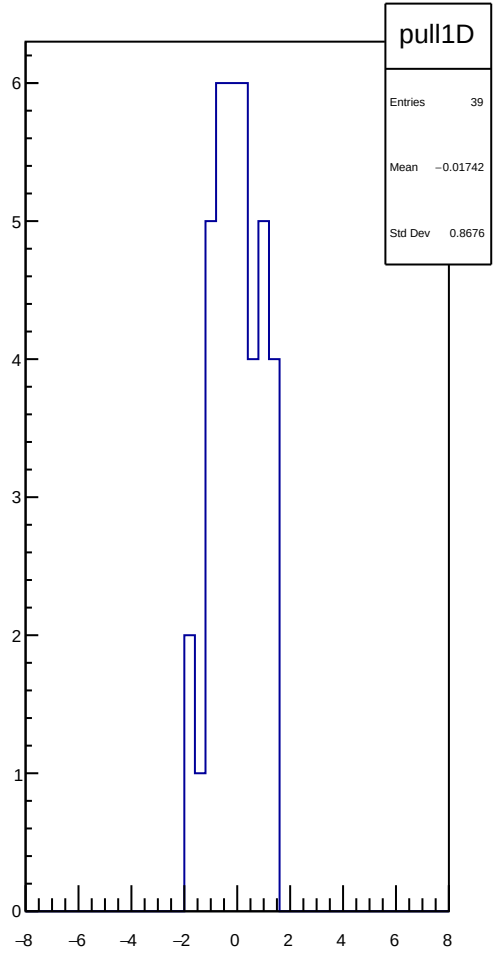

diff_dispE_bpm12X_rms vs run
χ² / ndf 3826 / 38
p0 8.584 ± 0.009884
10.5
10
9.5
9
8.5
8
7.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

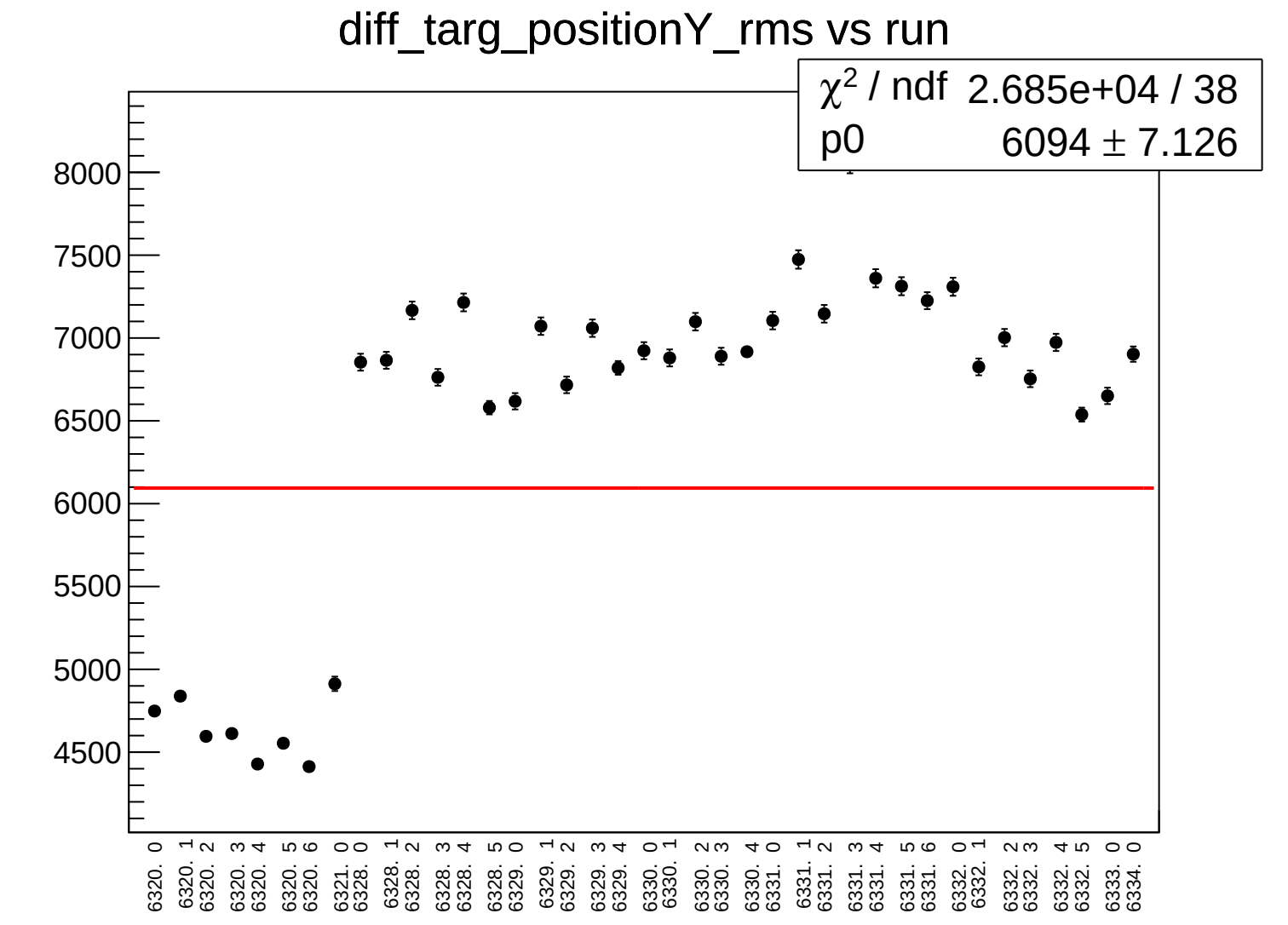

diff_targ_positionX_mean vs run
χ² / ndf 32.63 / 38
p0 −17.31± 16.57
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

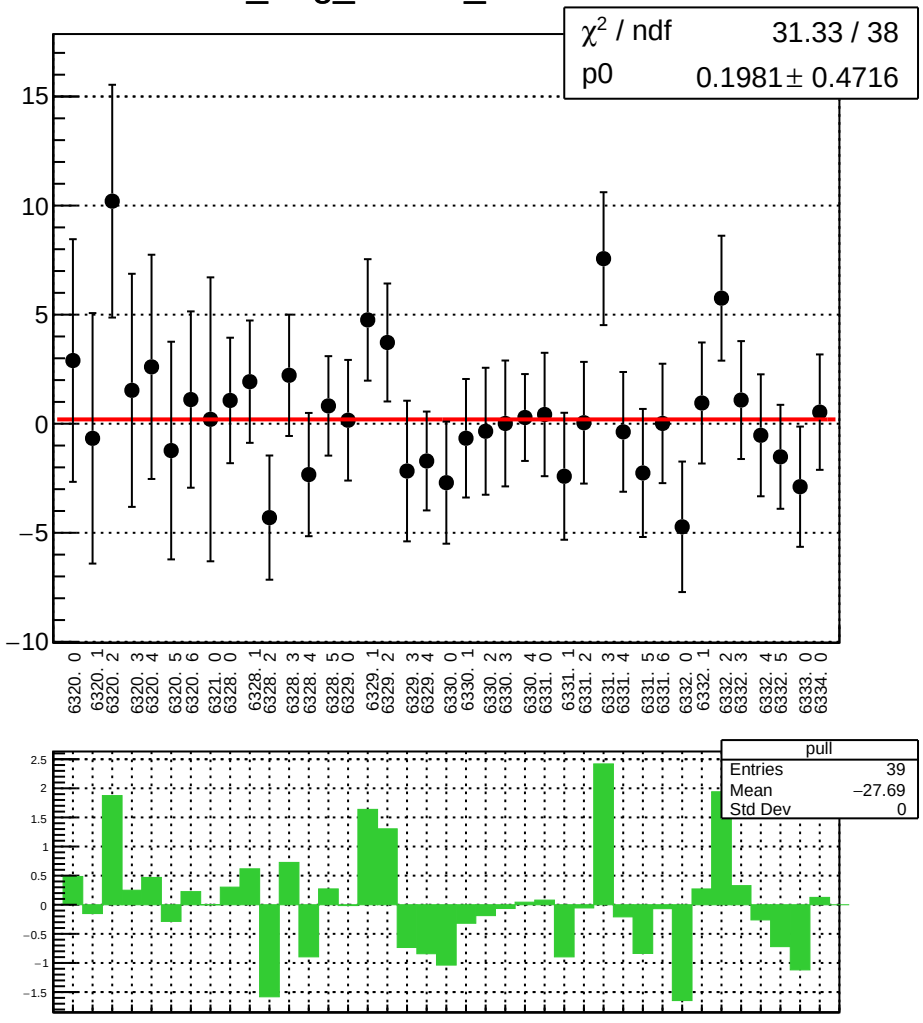

pull1D
Entries 39
Mean −0.03622
Std Dev 0.914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

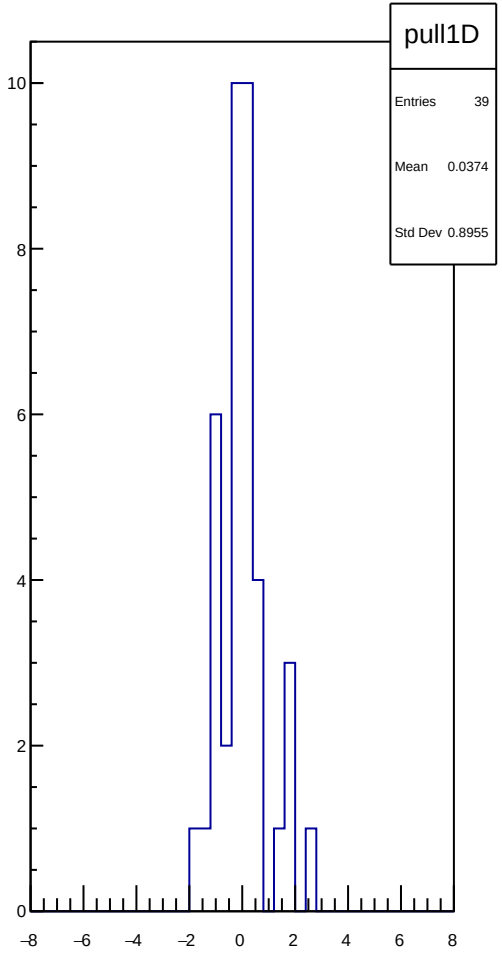

diff_targ_positionX_rms vs run
χ² / ndf 3.483e+04 / 38
p0 9967 ± 11.72
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

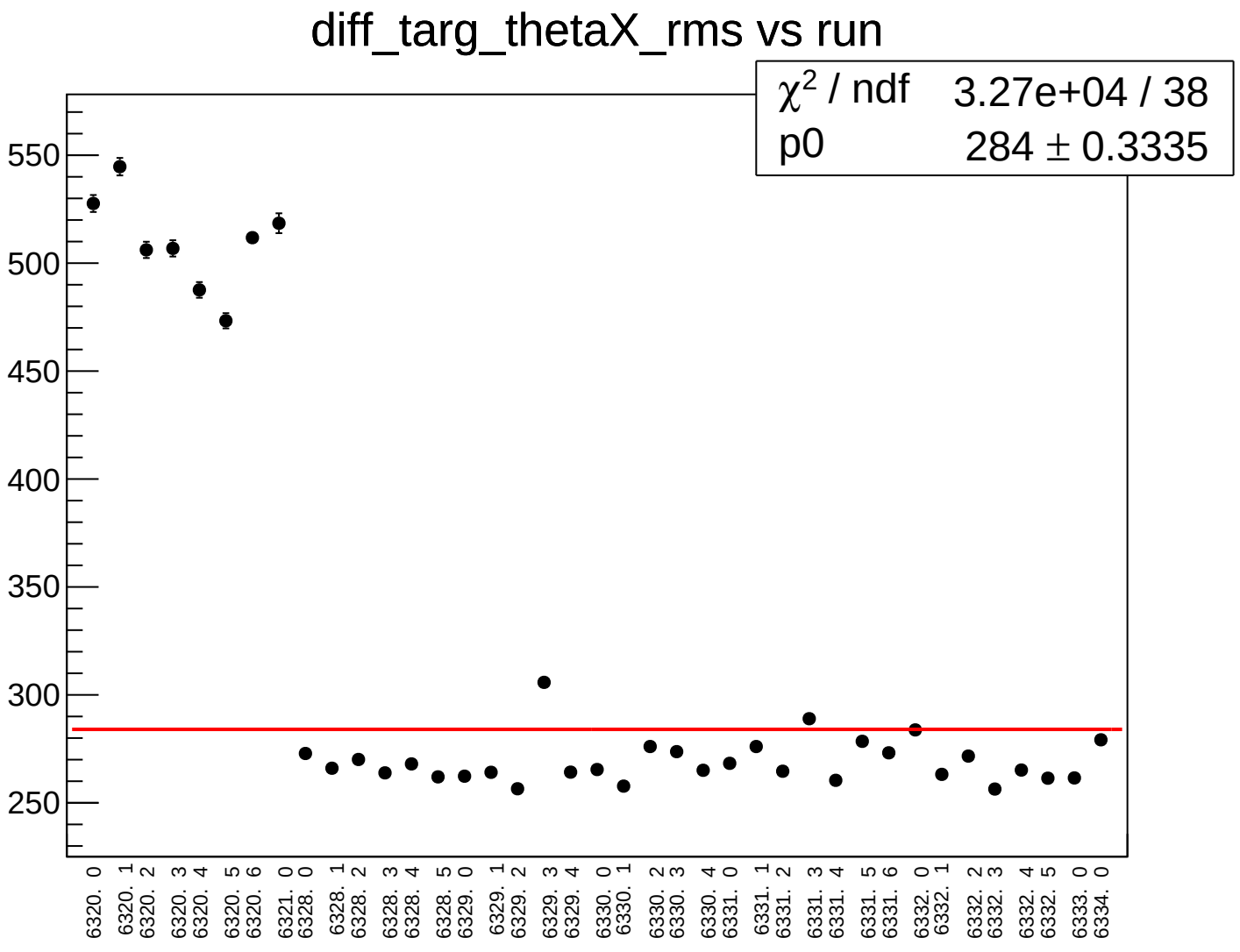

diff_targ_positionY_mean vs run
χ^2 / ndf 29.37 / 38
p0 1.943 ± 10.08
pull
Entries 39
Mean 296.2
Std Dev 0

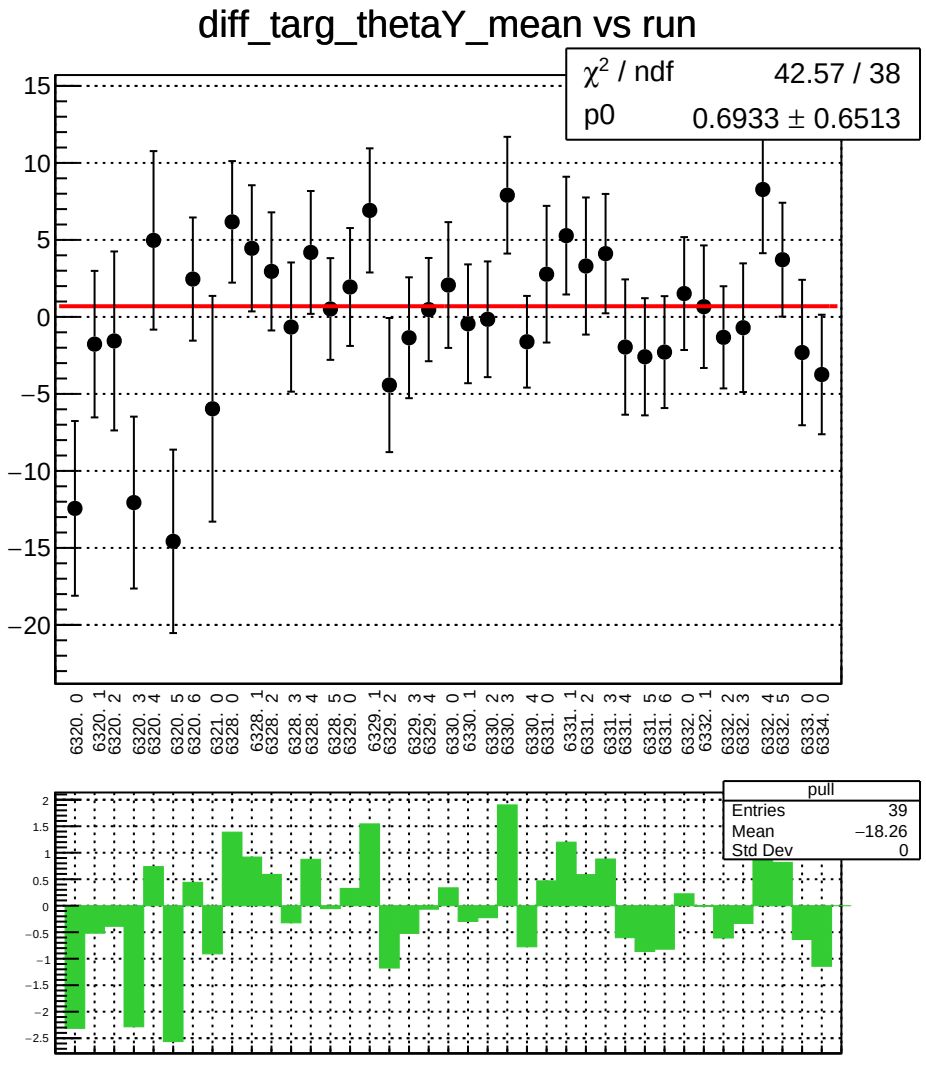

pull1D
Entries 39
Mean −0.01742
Std Dev 0.8676

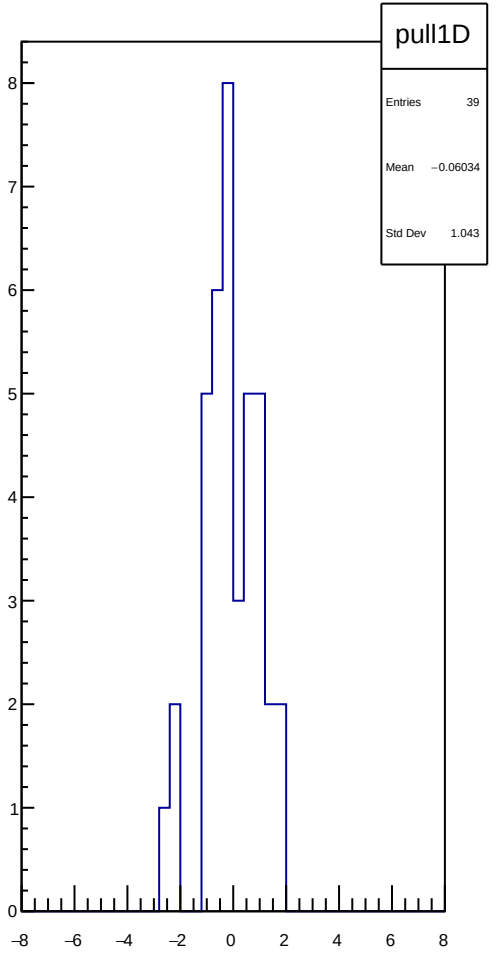

diff_targ_positionY_rms vs run
χ² / ndf 2.685e+04 / 38
p0 6094 ± 7.126
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

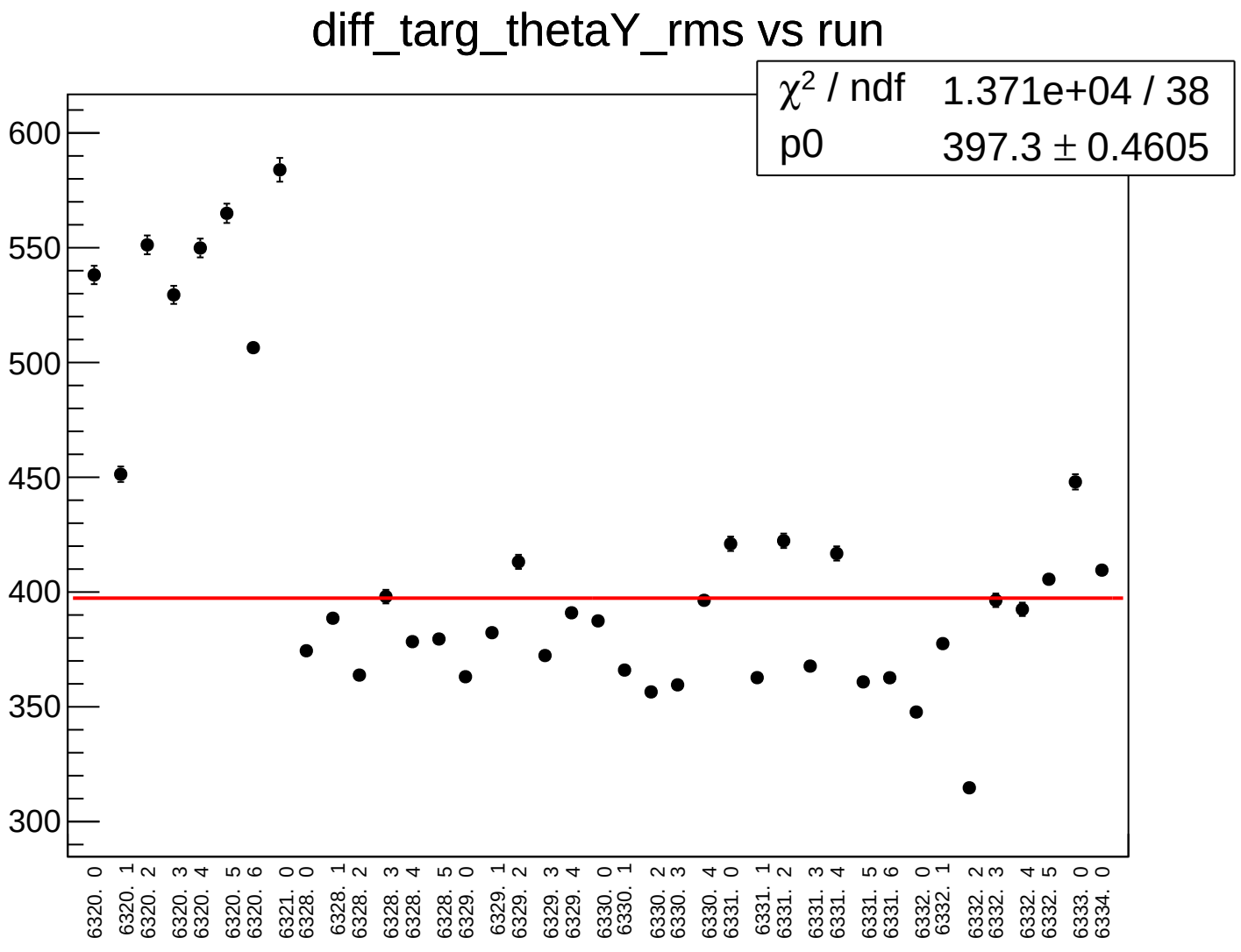

diff_targ_thetaX_mean vs run
χ² / ndf 31.33 / 38
p0 0.1981 ± 0.4716
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

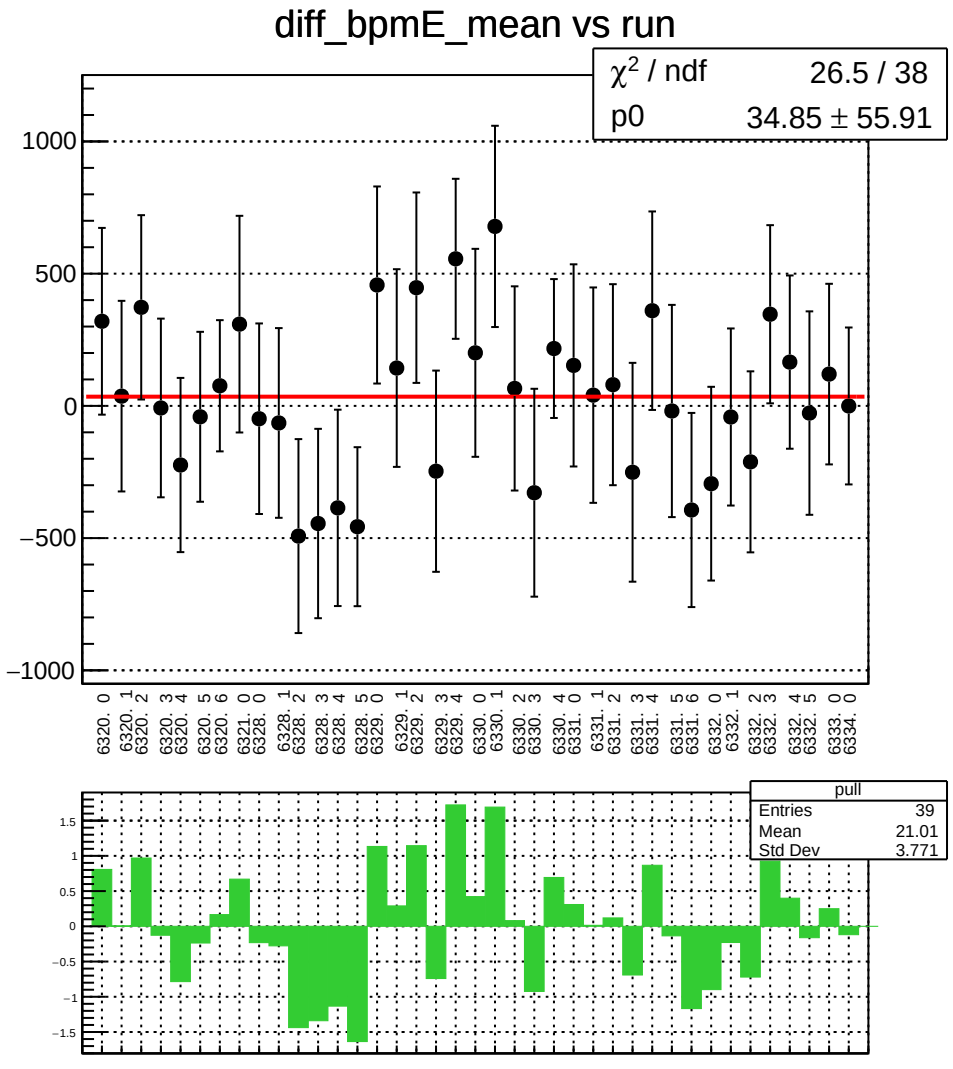

pull1D
Entries 39
Mean 0.0374
Std Dev 0.8955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

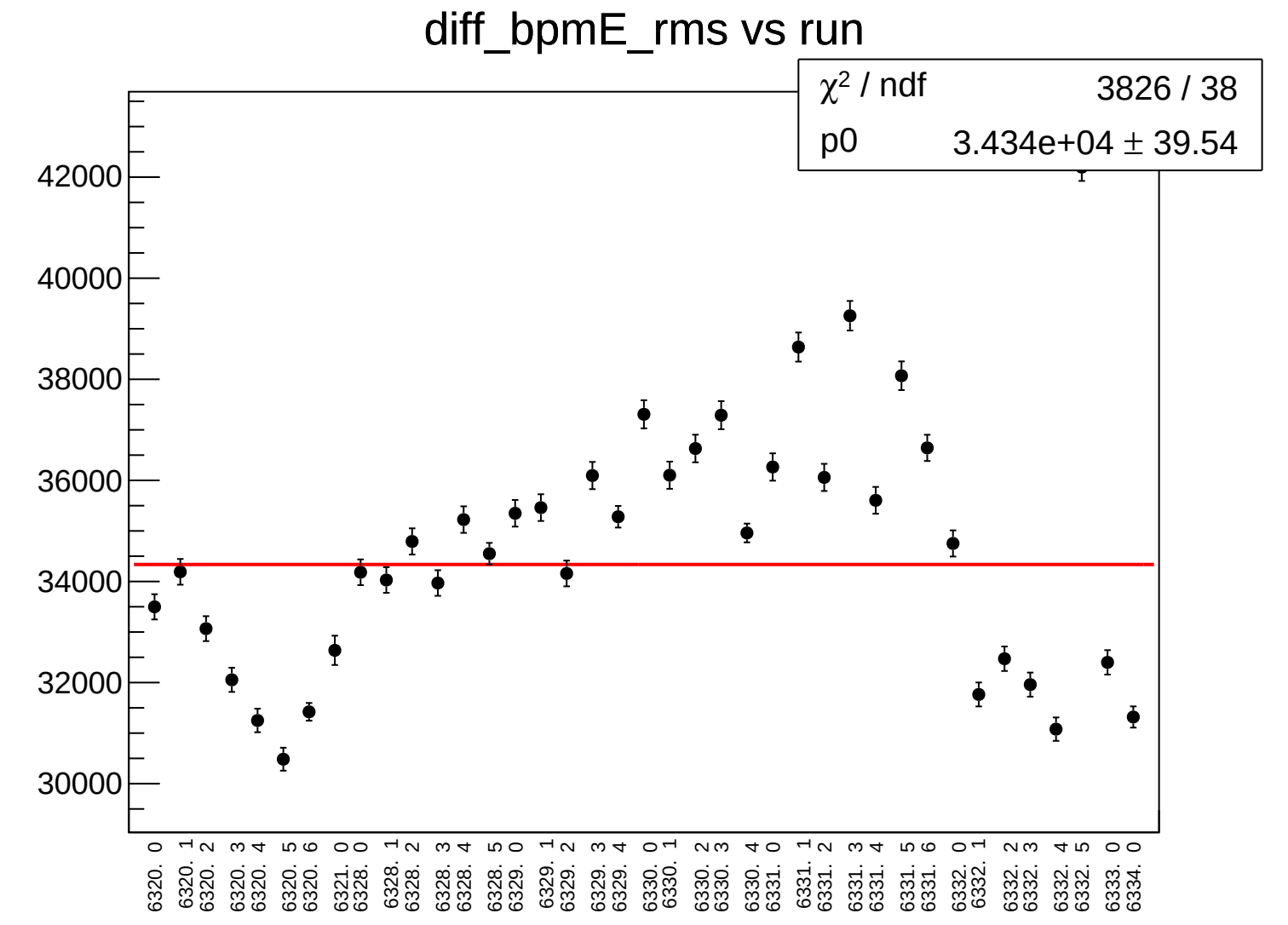

diff_targ_thetaX_rms vs run
χ² / ndf 3.27e+04 / 38
p0 284 ± 0.3335
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

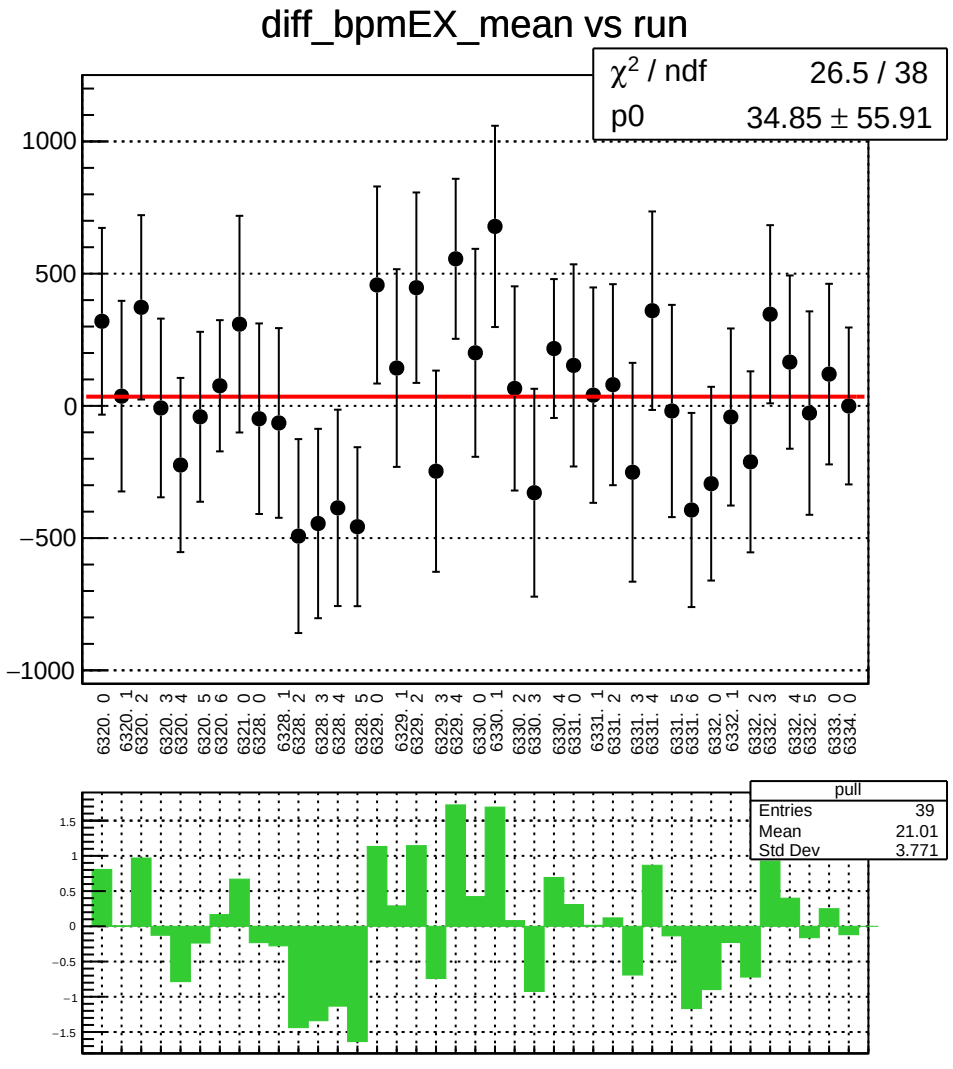

diff_targ_thetaY_mean vs run
χ² / ndf 42.57 / 38
p0 0.6933 ± 0.6513
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

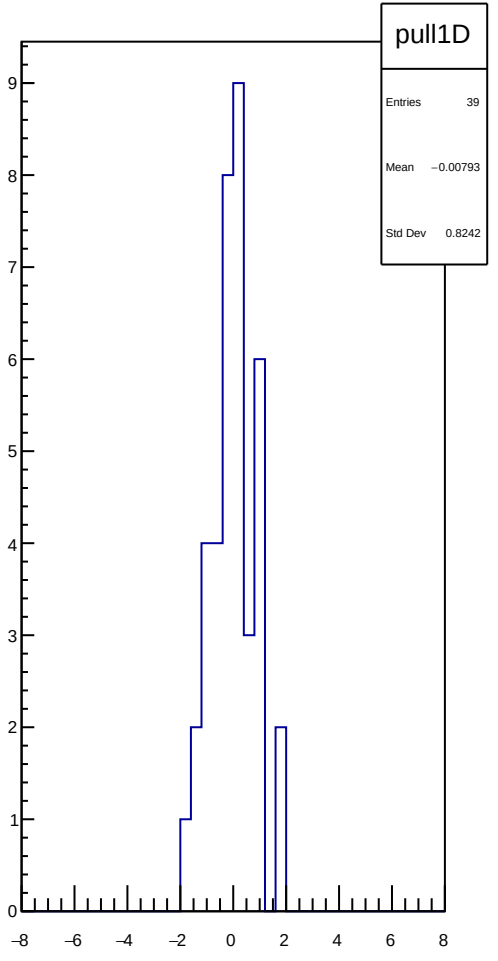

pull1D
Entries 39
Mean −0.06034
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

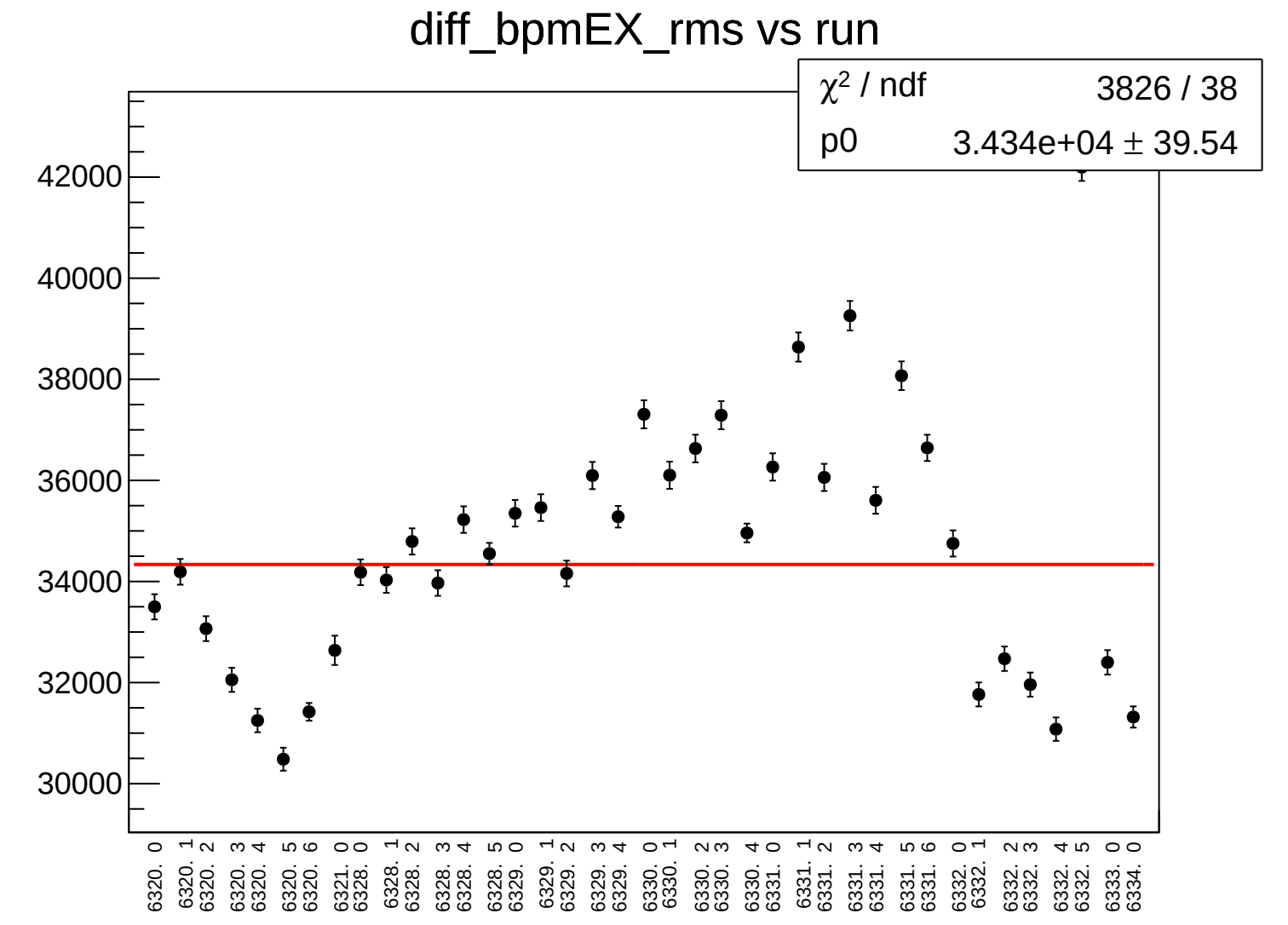

diff_targ_thetaY_rms vs run
χ² / ndf 1.371e+04 / 38
p0 397.3 ± 0.4605
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

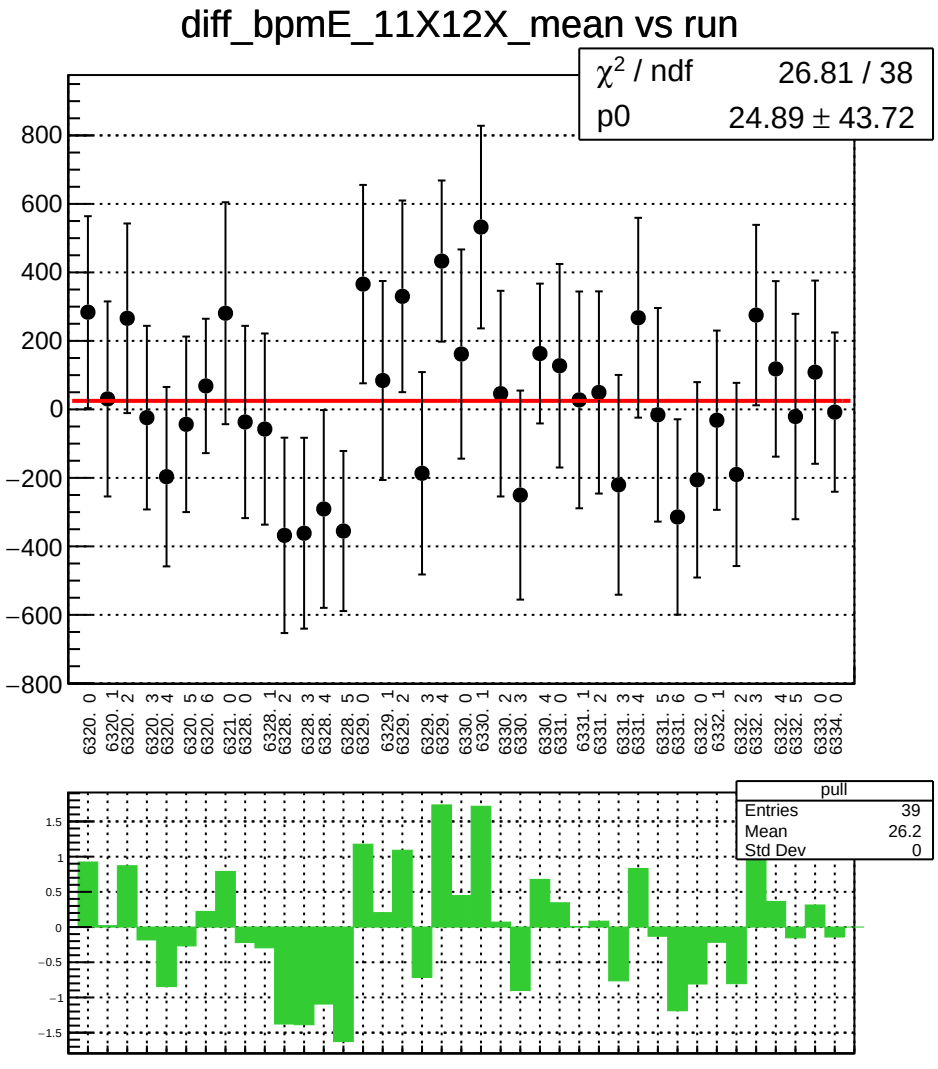

diff_bpmE_mean vs run
χ² / ndf 26.5 / 38
p0 34.85 ± 55.91
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.01
Std Dev 3.771
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.00793
Std Dev 0.8242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

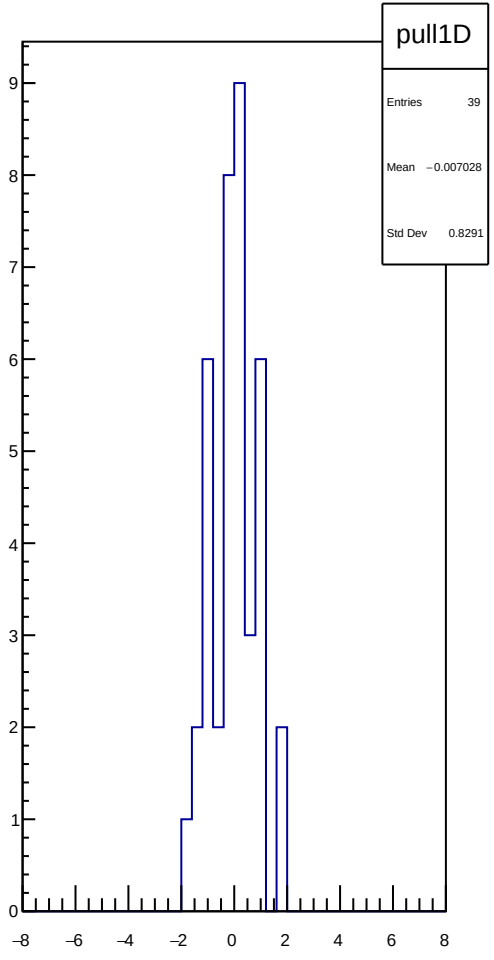

diff_bpmE_rms vs run
χ² / ndf 3826 / 38
p0 3.434e+04 ± 39.54
42000
40000
38000
36000
34000
32000
30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

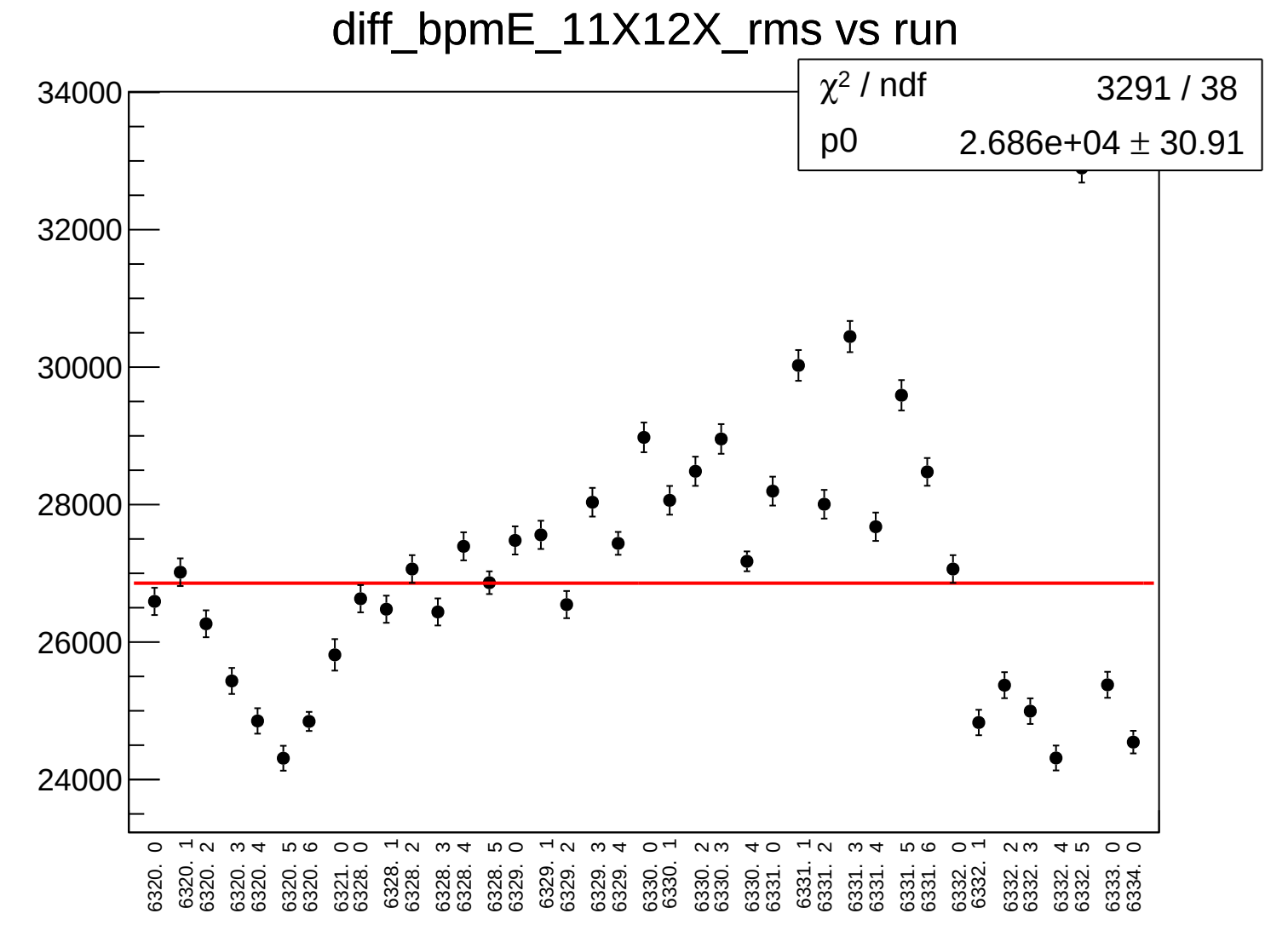

diff_bpmEX_mean vs run
χ² / ndf 26.5 / 38
p0 34.85 ± 55.91
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.01
Std Dev 3.771
1.5
1
0.5
0
−0.5
−1
−1.5

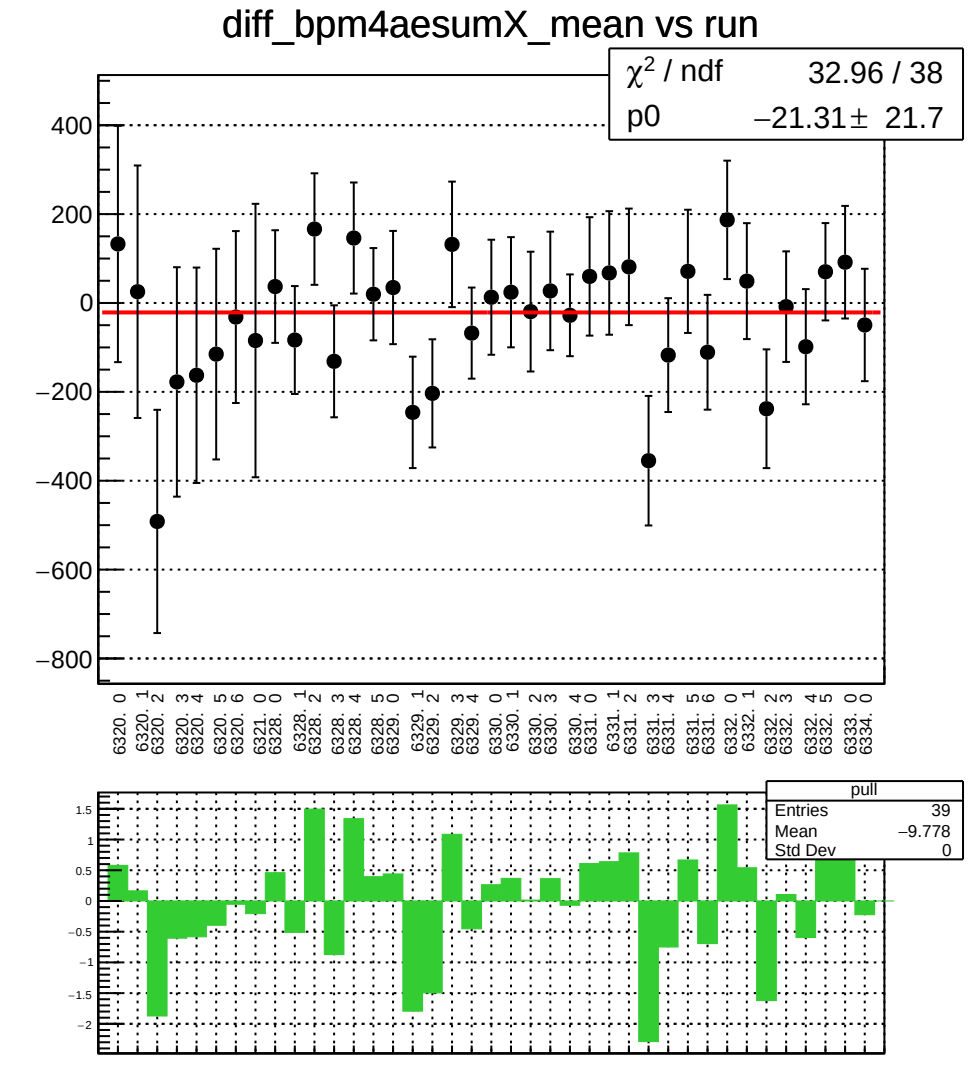

pull1D
Entries 39
Mean −0.00793
Std Dev 0.8242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

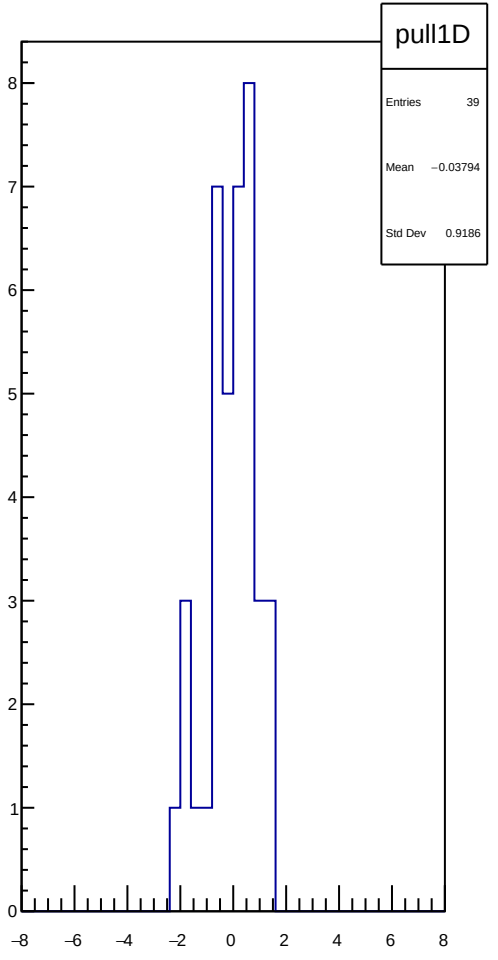

diff_bpmEX_rms vs run
χ² / ndf 3826 / 38
p0 3.434e+04 ± 39.54
42000
40000
38000
36000
34000
32000
30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

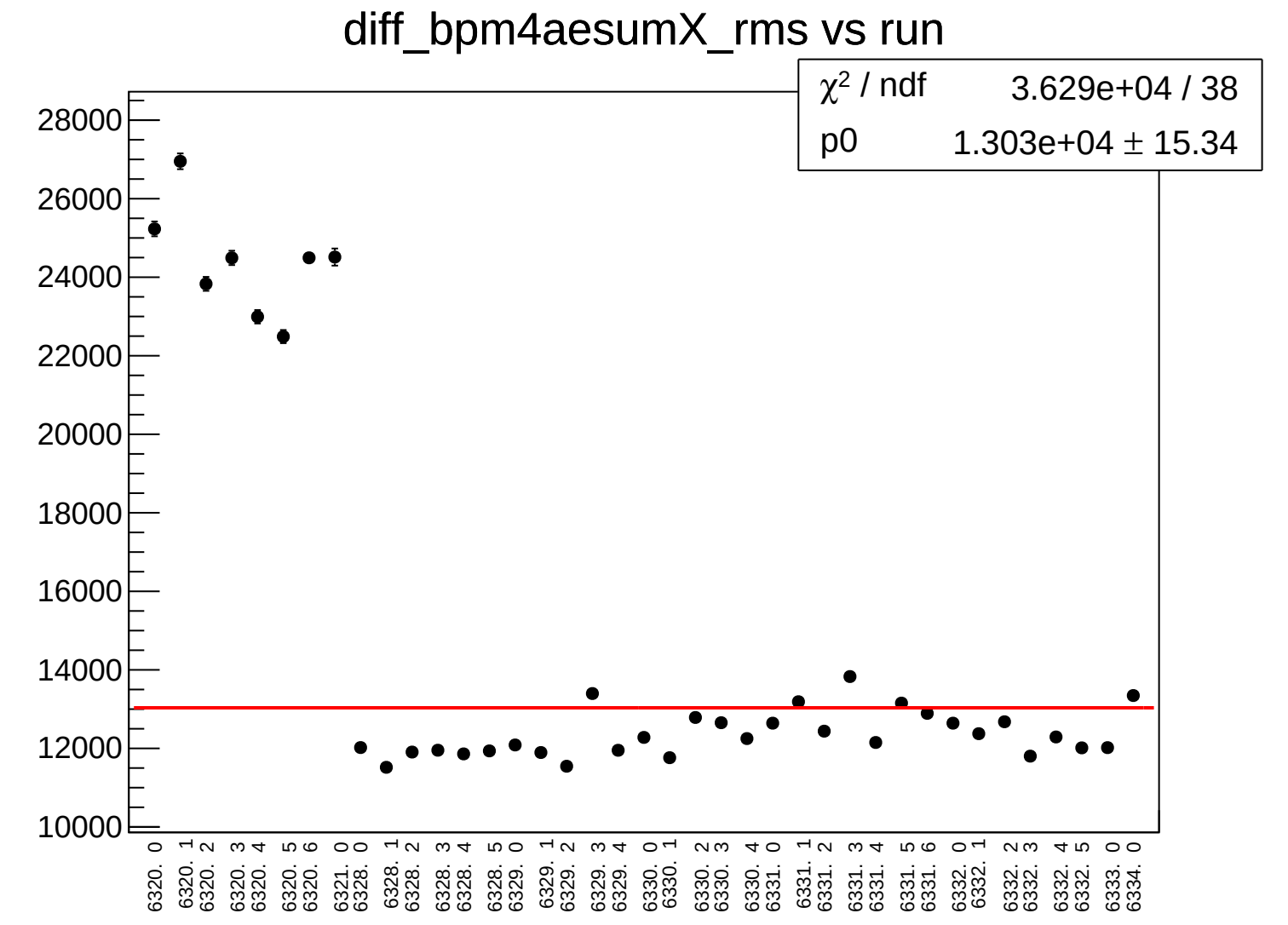

diff_bpmE_11X12X_mean vs run
χ² / ndf 26.81 / 38
p0 24.89 ± 43.72
pull
Entries 39
Mean 26.2
Std Dev 0

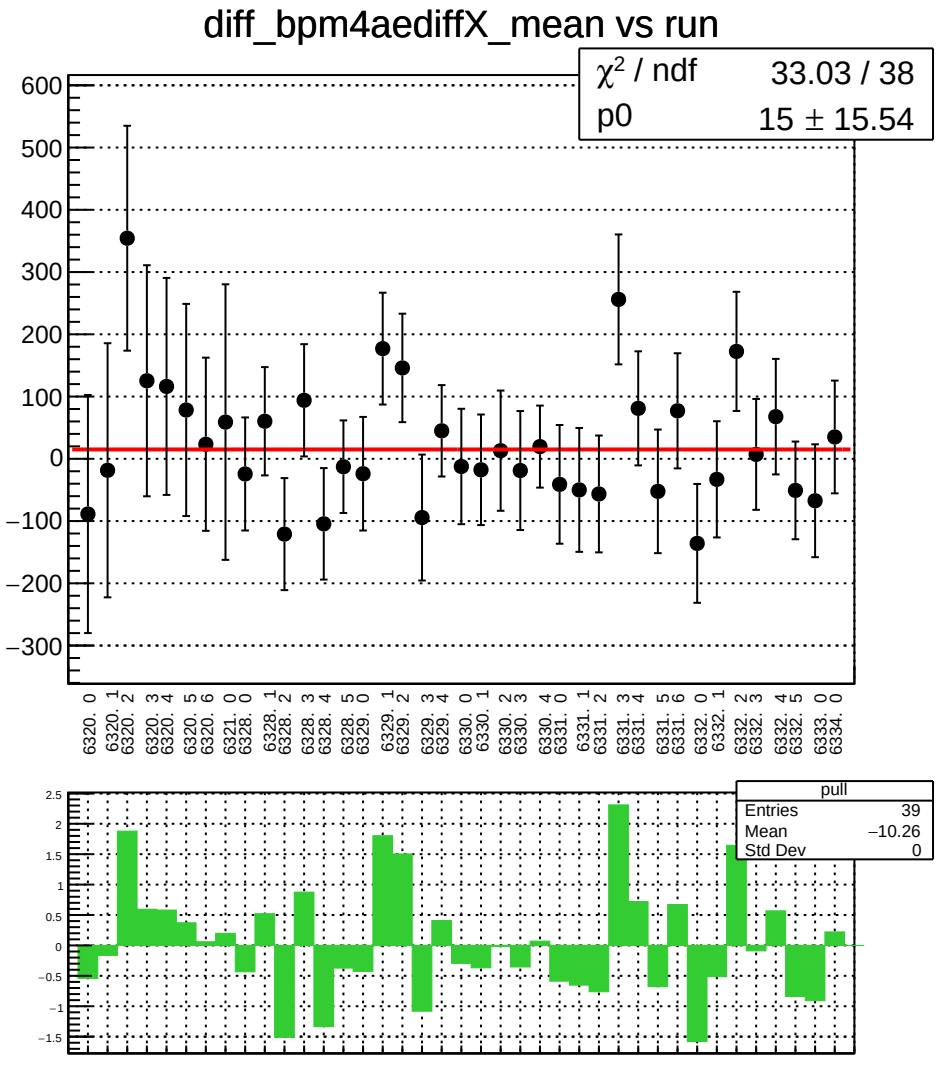

pull1D
Entries 39
Mean −0.007028
Std Dev 0.8291

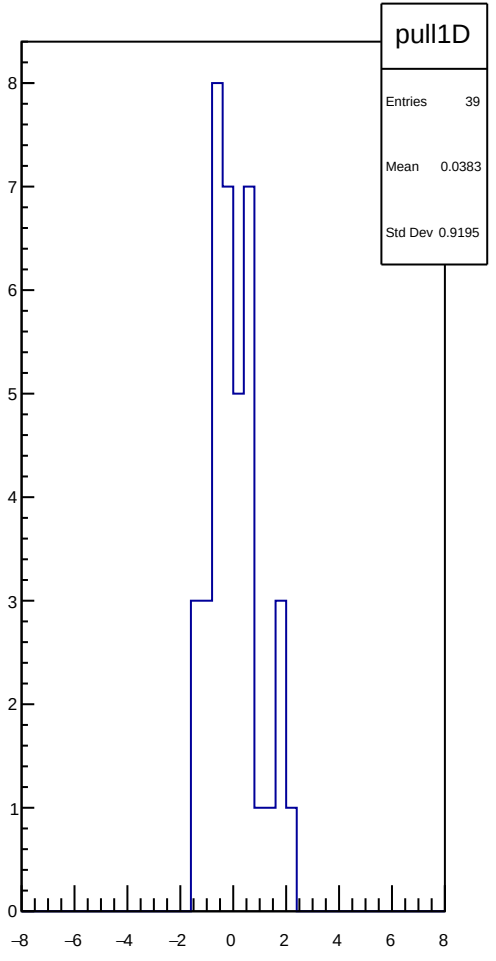

diff_bpmE_11X12X_rms vs run
χ² / ndf 3291 / 38
p0 2.686e+04 ± 30.91
34000
32000
30000
28000
26000
24000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

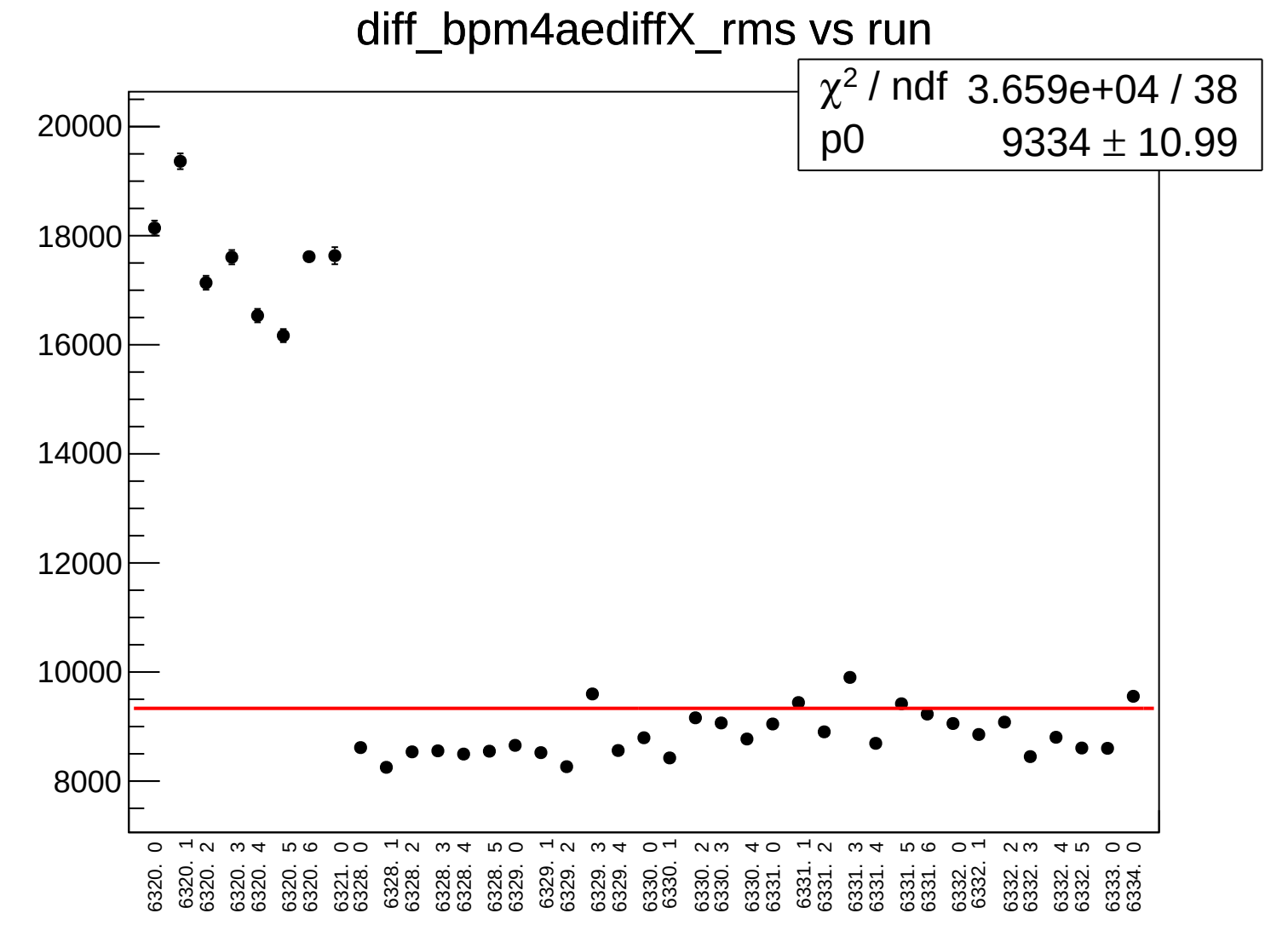

diff_bpm4aesumX_mean vs run
χ² / ndf 32.96 / 38
p0 −21.31± 21.7
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.778
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

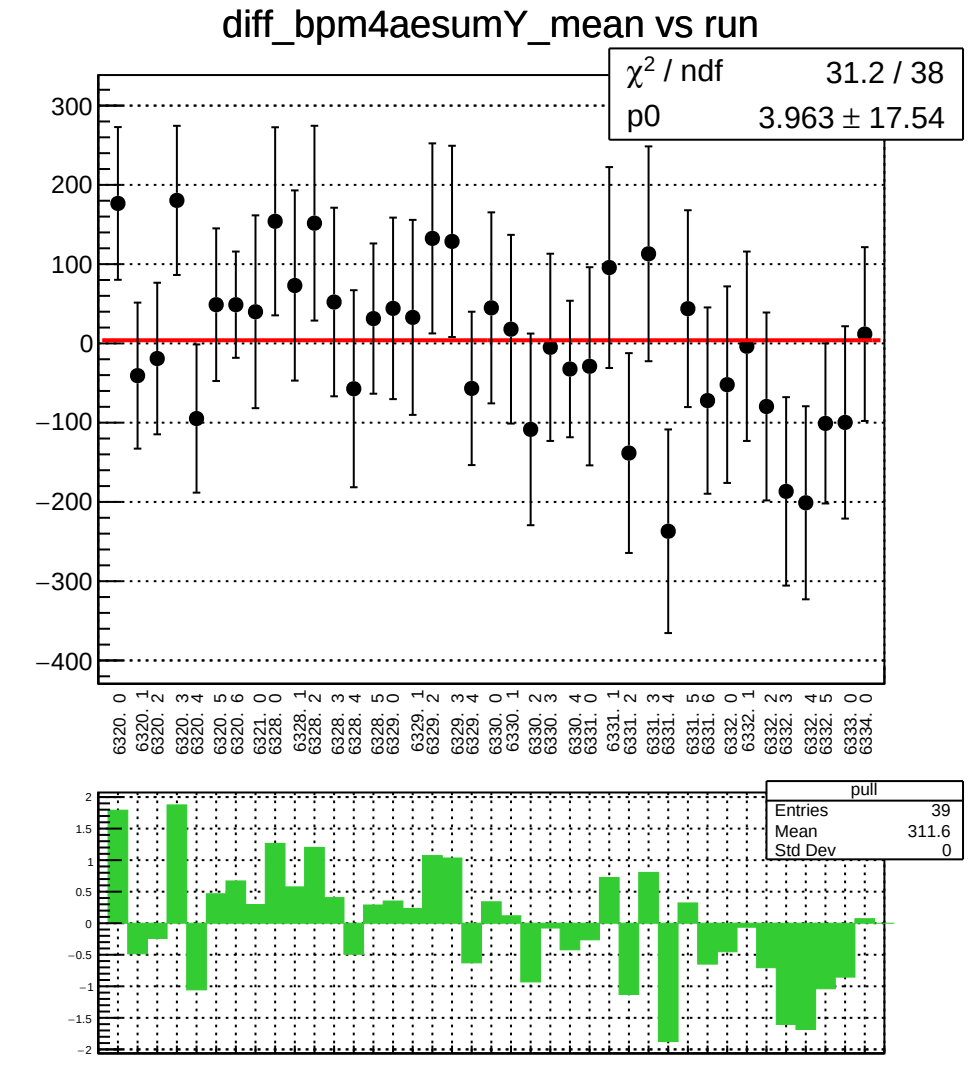

pull1D
Entries 39
Mean −0.03794
Std Dev 0.9186
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

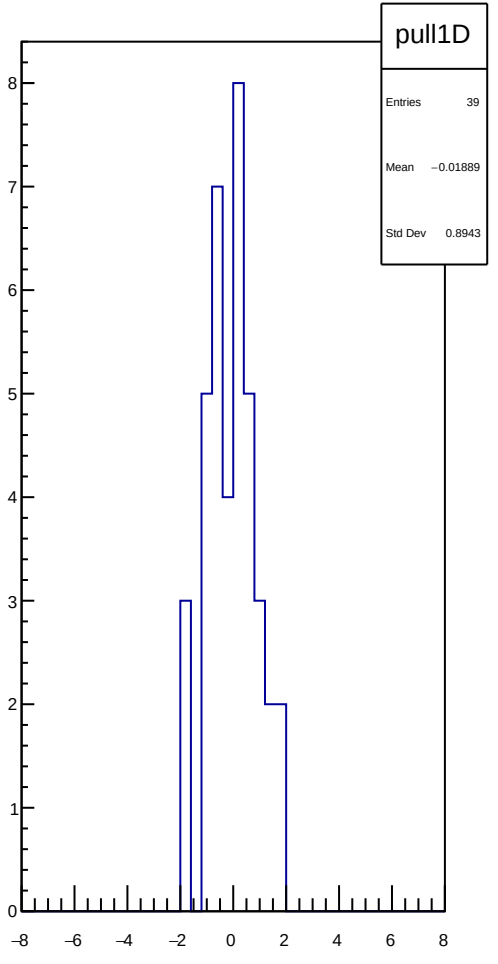

diff_bpm4aesumX_rms vs run
χ² / ndf 3.629e+04 / 38
p0 1.303e+04 ± 15.34
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

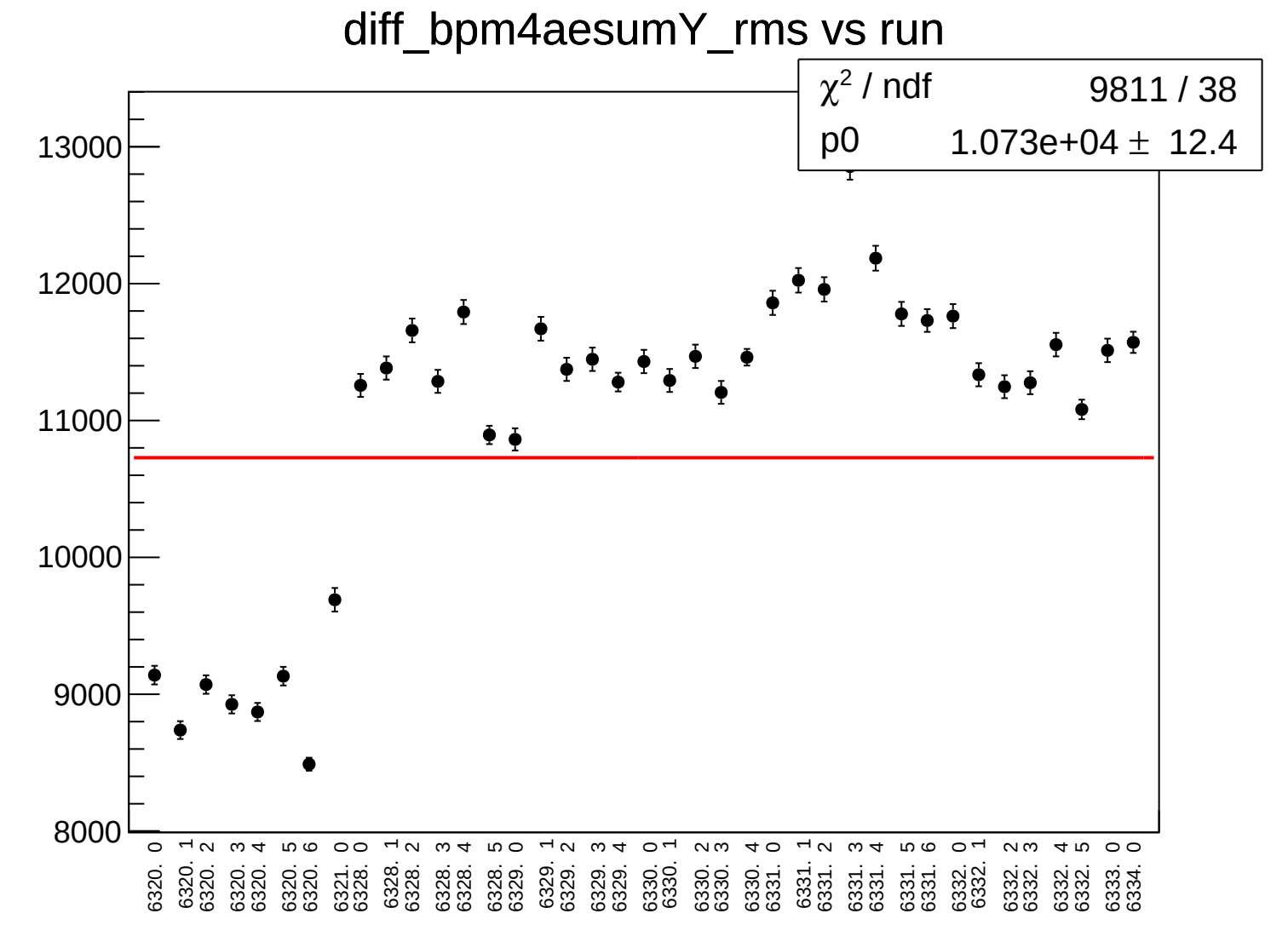

diff_bpm4aediffX_mean vs run
χ² / ndf 33.03 / 38
p0 15 ± 15.54
pull
Entries 39
Mean −10.26
Std Dev 0

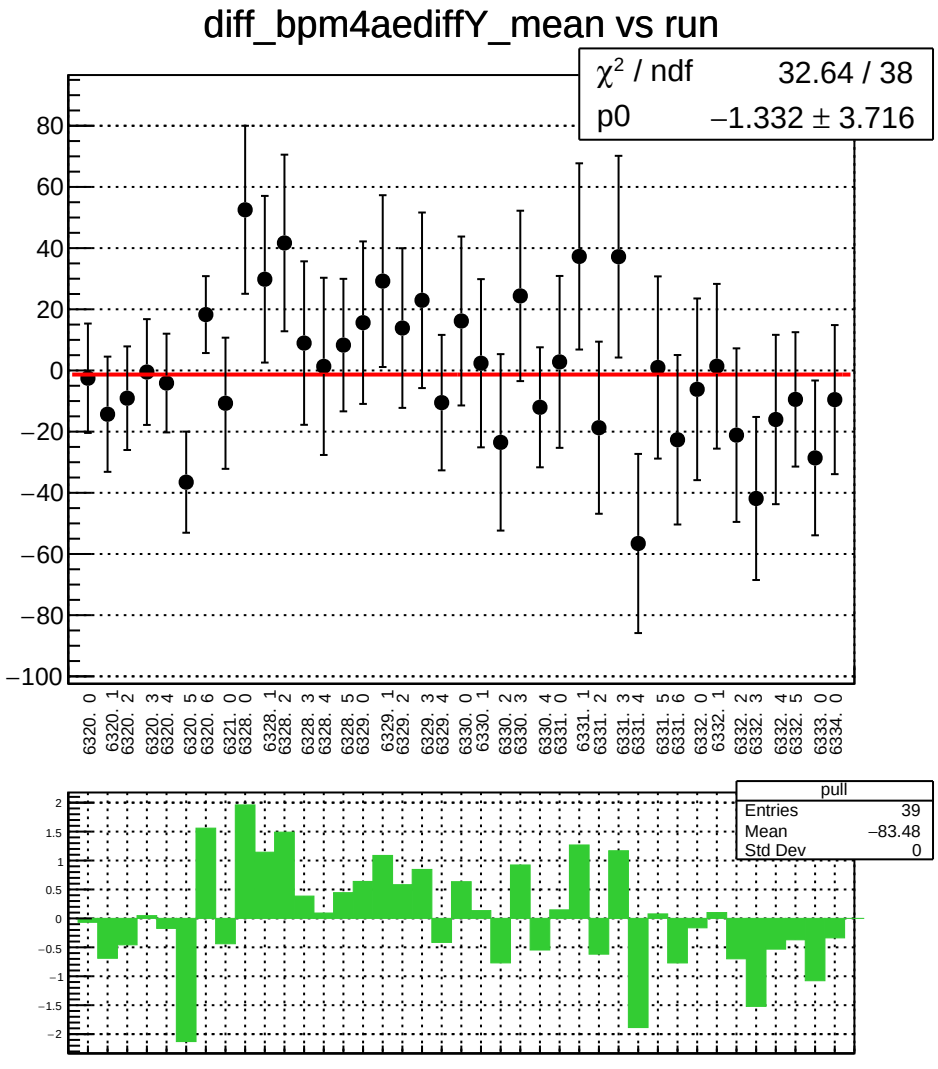

pull1D
Entries 39
Mean 0.0383
Std Dev 0.9195

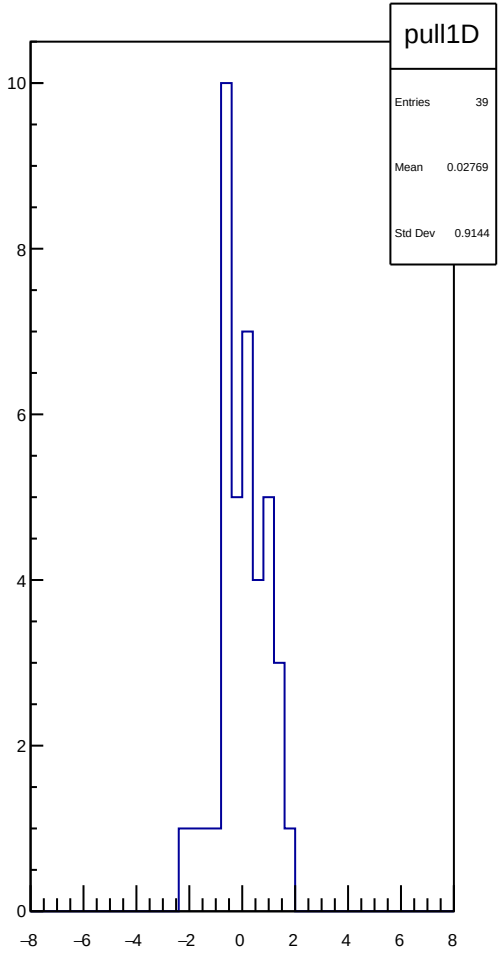

diff_bpm4aediffX_rms vs run
χ² / ndf 3.659e+04 / 38
p0 9334 ± 10.99
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

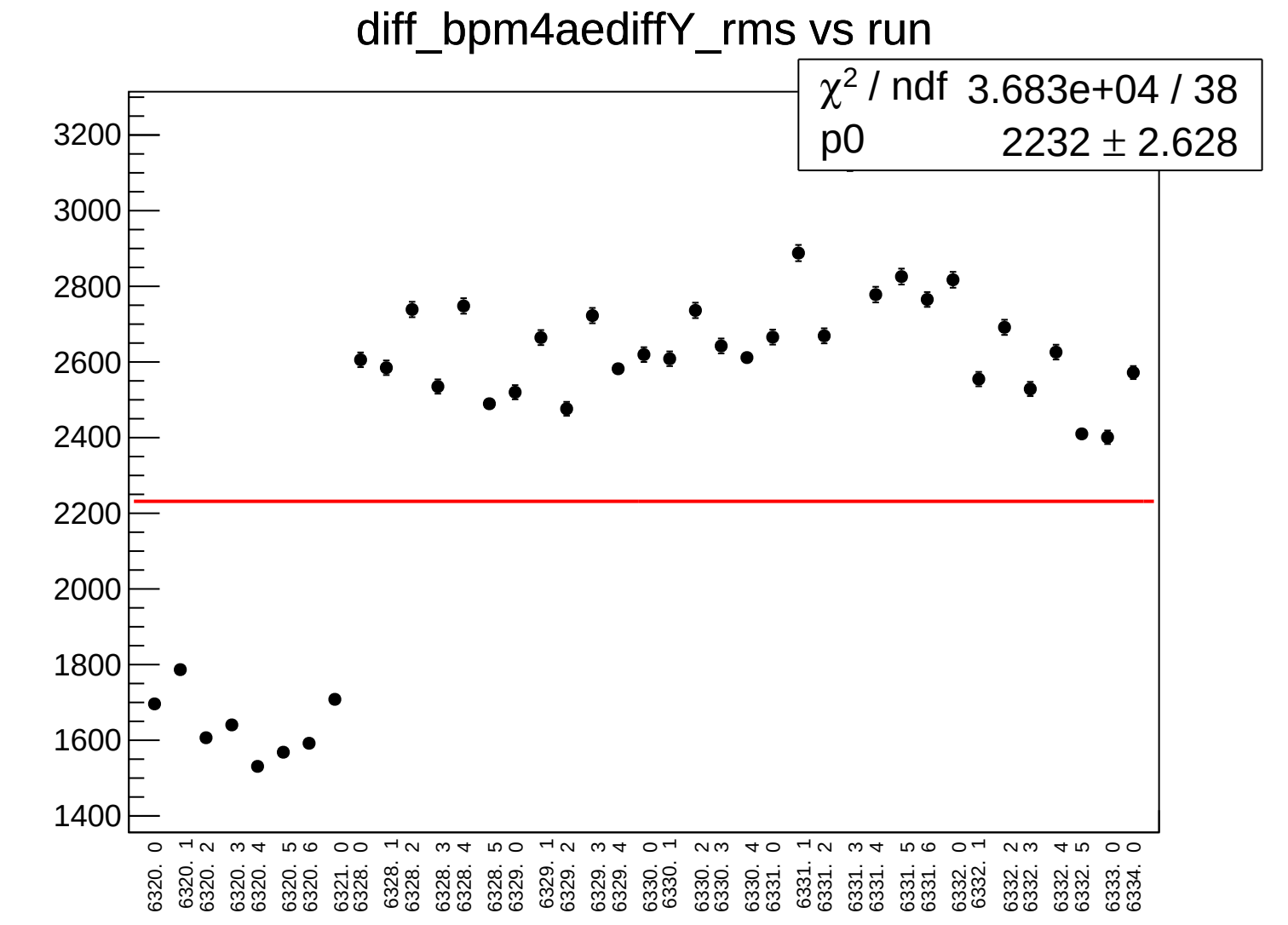

diff_bpm4aesumY_mean vs run
χ² / ndf 31.2 / 38
p0 3.963 ± 17.54
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 311.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

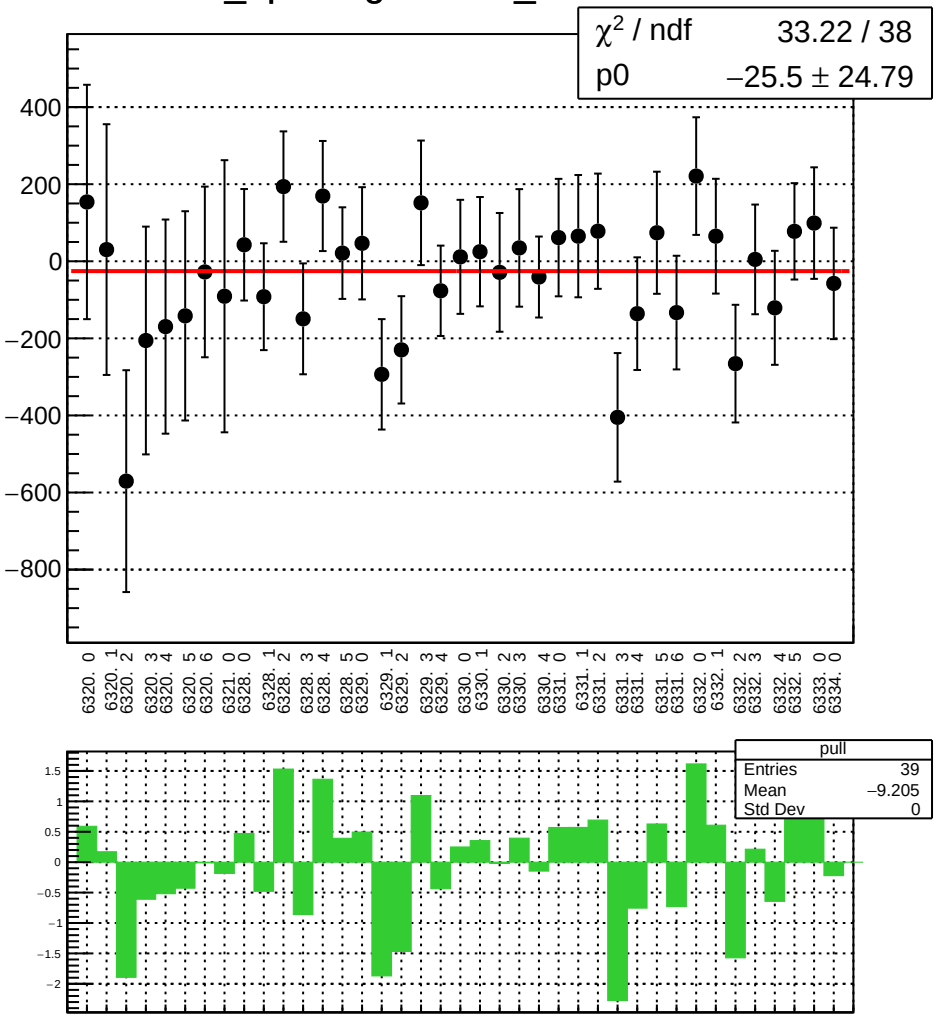

pull1D
Entries 39
Mean −0.01889
Std Dev 0.8943
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

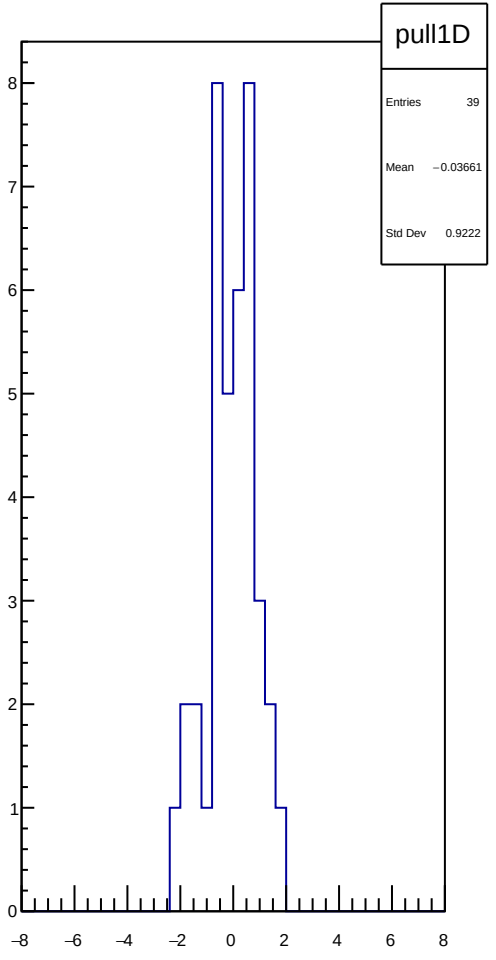

diff_bpm4aesumY_rms vs run
χ² / ndf 9811 / 38
p0 1.073e+04 ± 12.4
13000
12000
11000
10000
9000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

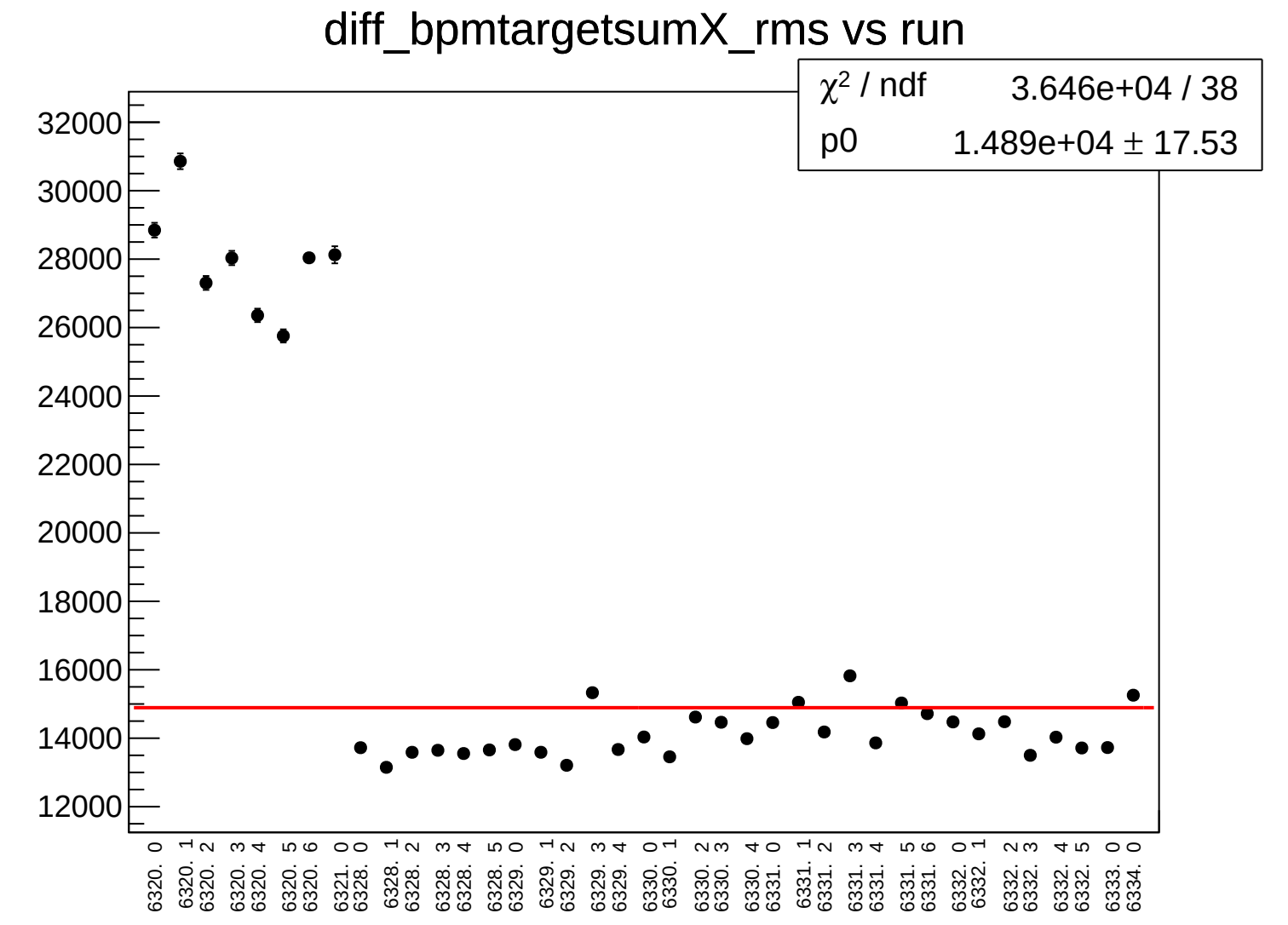

diff_bpm4aediffY_mean vs run
χ² / ndf 32.64 / 38
p0 −1.332 ± 3.716
pull
Entries 39
Mean −83.48
Std Dev 0

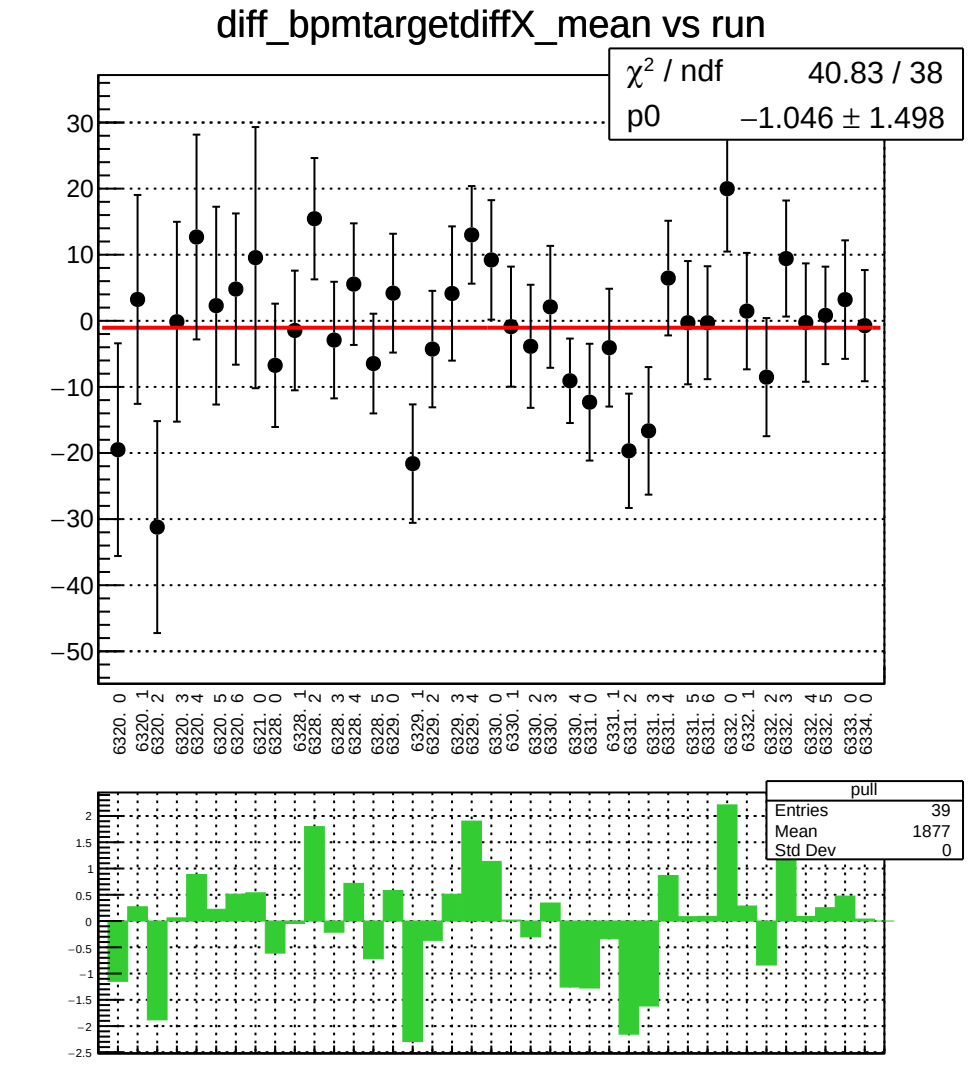

pull1D
Entries 39
Mean 0.02769
Std Dev 0.9144

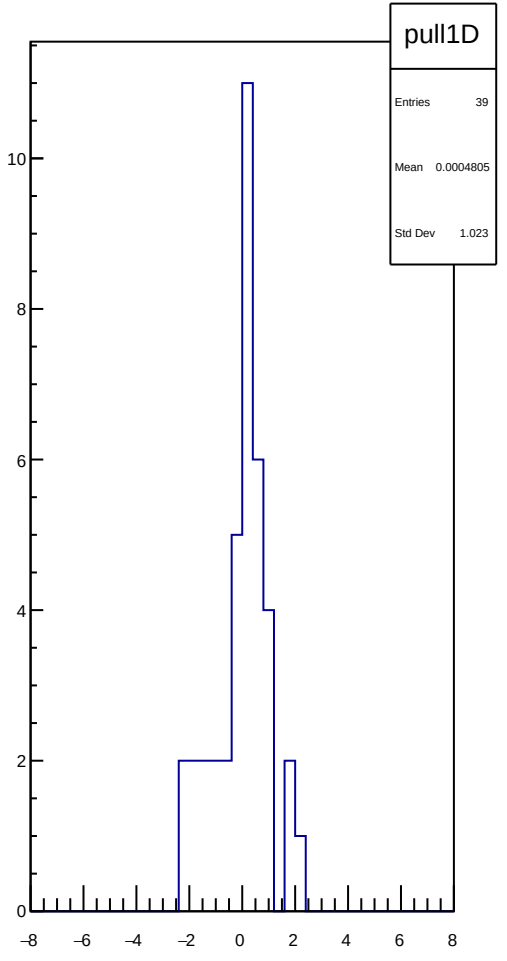

diff_bpm4aediffY_rms vs run
χ² / ndf 3.683e+04 / 38
p0 2232 ± 2.628
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

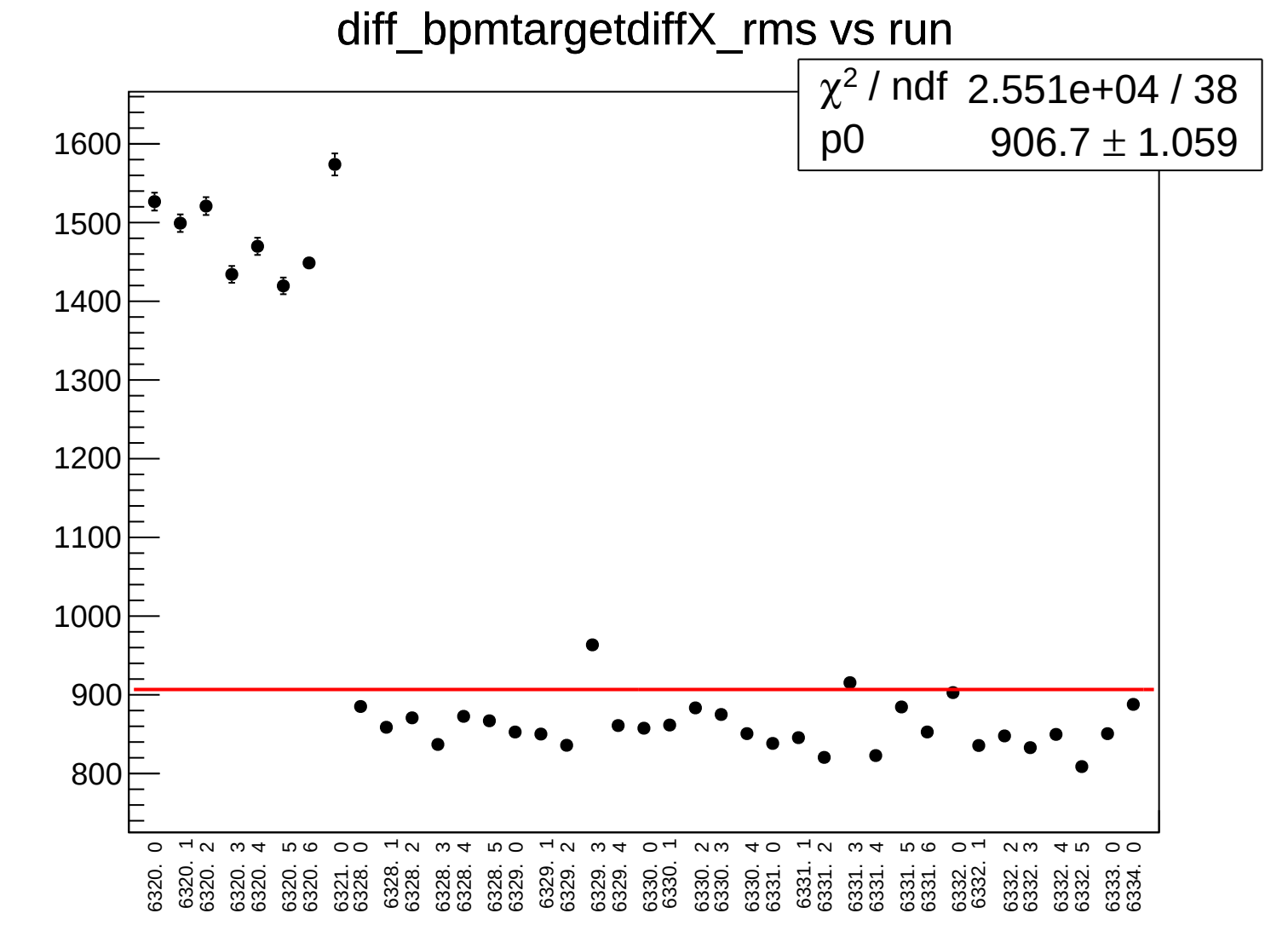

diff_bpmtargetsumX_mean vs run
χ² / ndf 33.22 / 38
p0 −25.5 ± 24.79
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.205
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

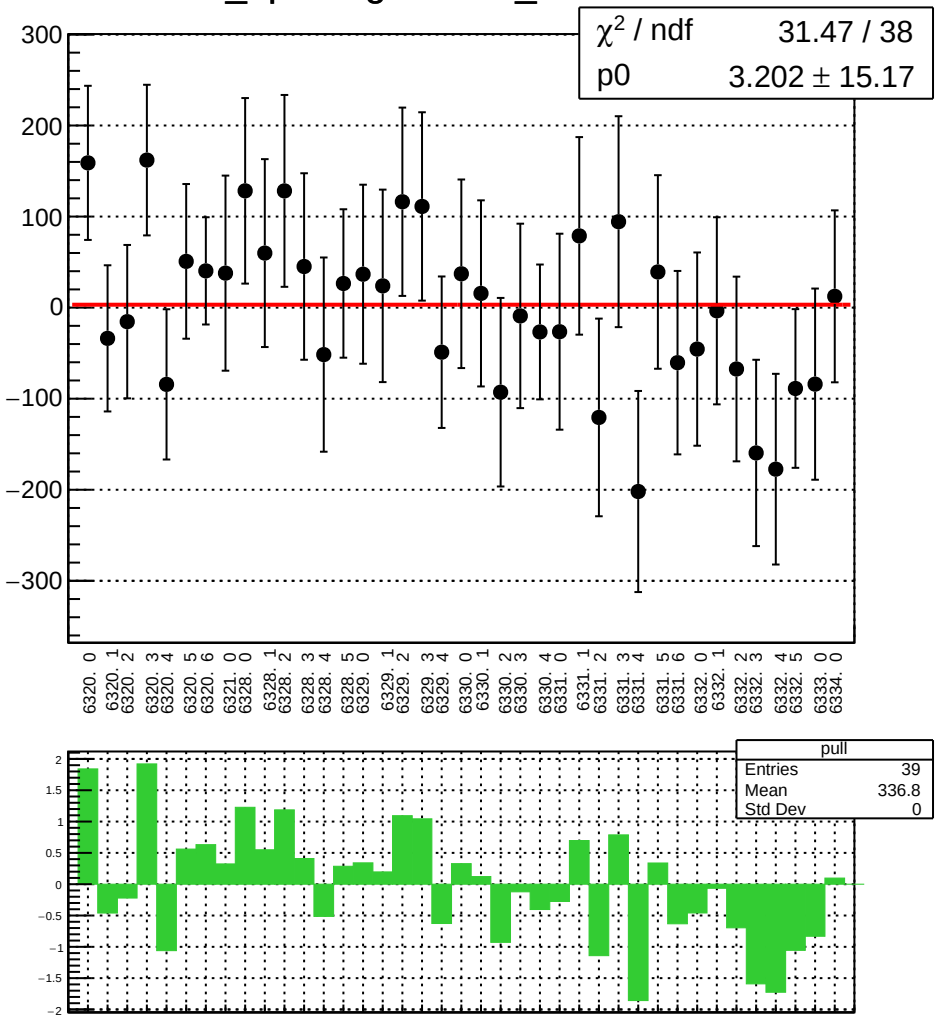

pull1D
Entries 39
Mean −0.03661
Std Dev 0.9222
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

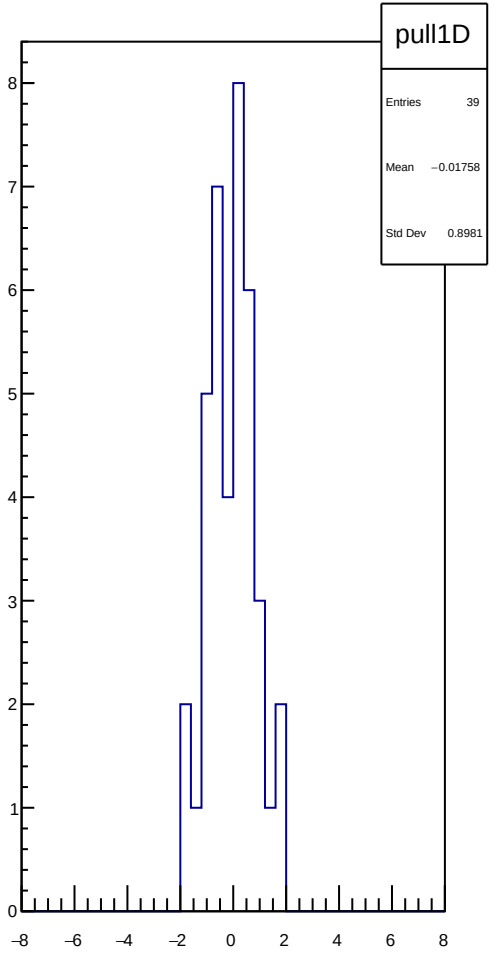

diff_bpmtargetsumX_rms vs run
χ² / ndf 3.646e+04 / 38
p0 1.489e+04 ± 17.53
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

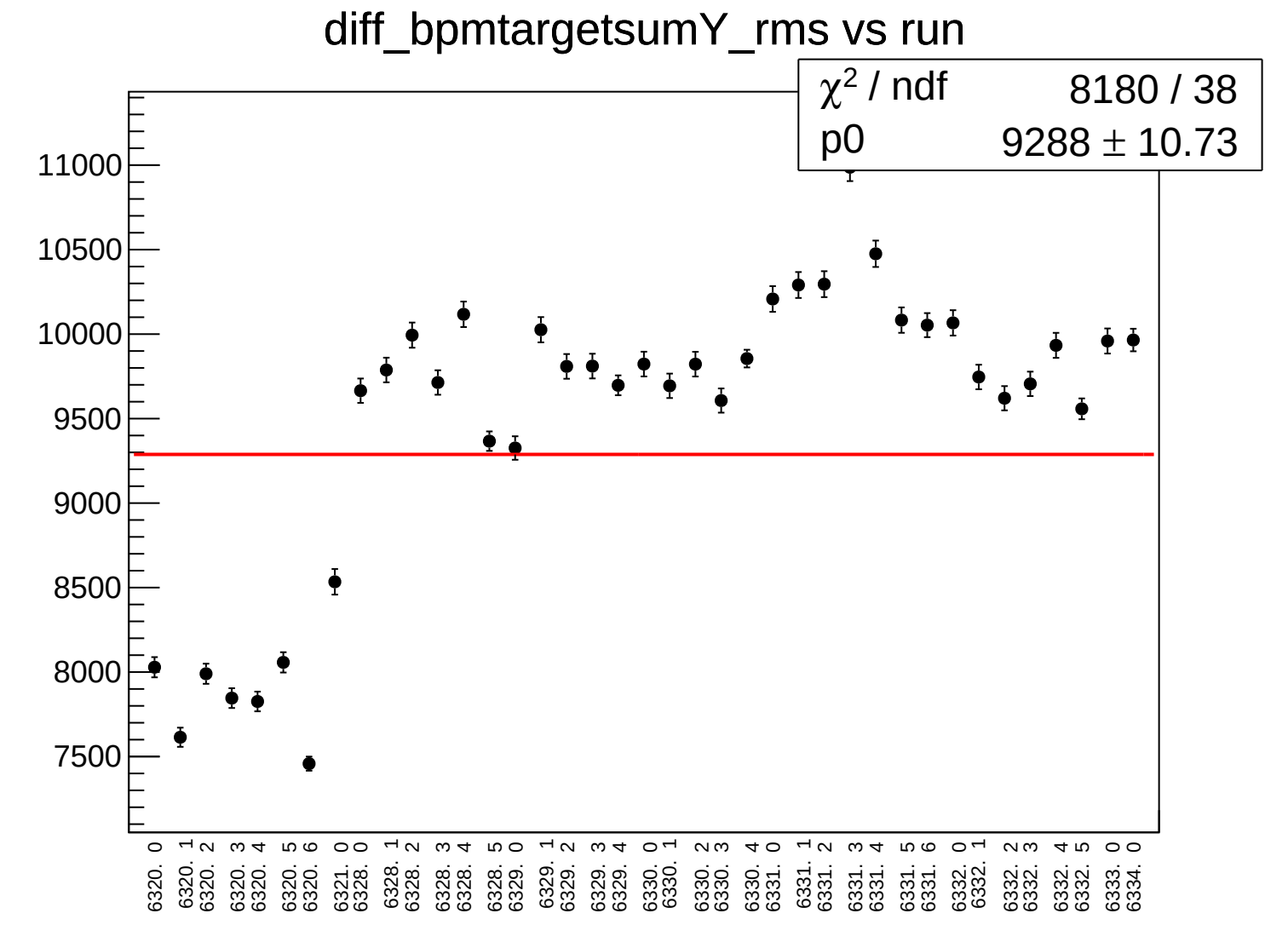

diff_bpmtargetdiffX_mean vs run
χ² / ndf 40.83 / 38
p0 −1.046 ± 1.498
pull
Entries 39
Mean 1877
Std Dev 0

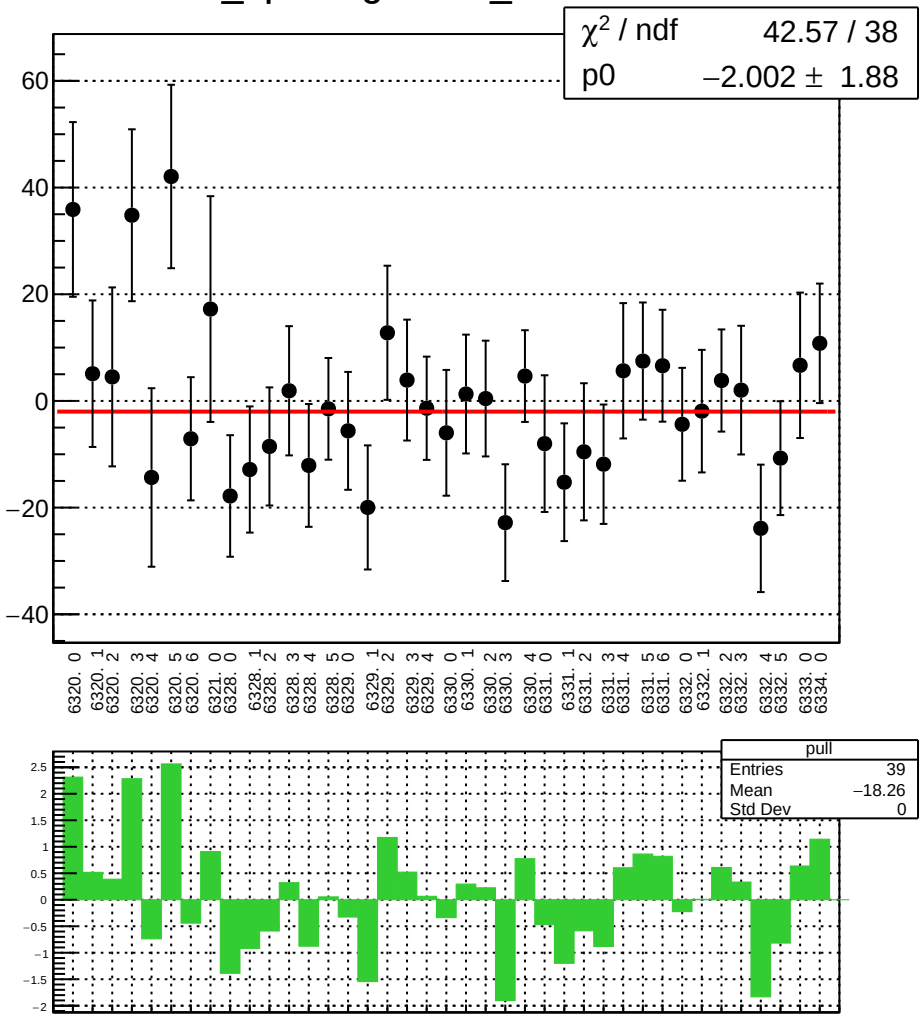

pull1D
Entries 39
Mean 0.0004805
Std Dev 1.023

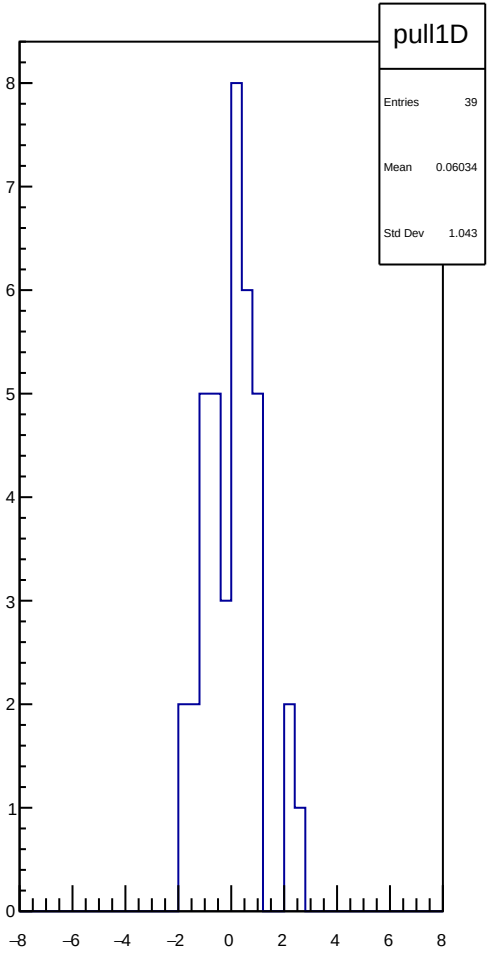

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2.551e+04 / 38
p0 906.7 ± 1.059
1600
1500
1400
1300
1200
1100
1000
900
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

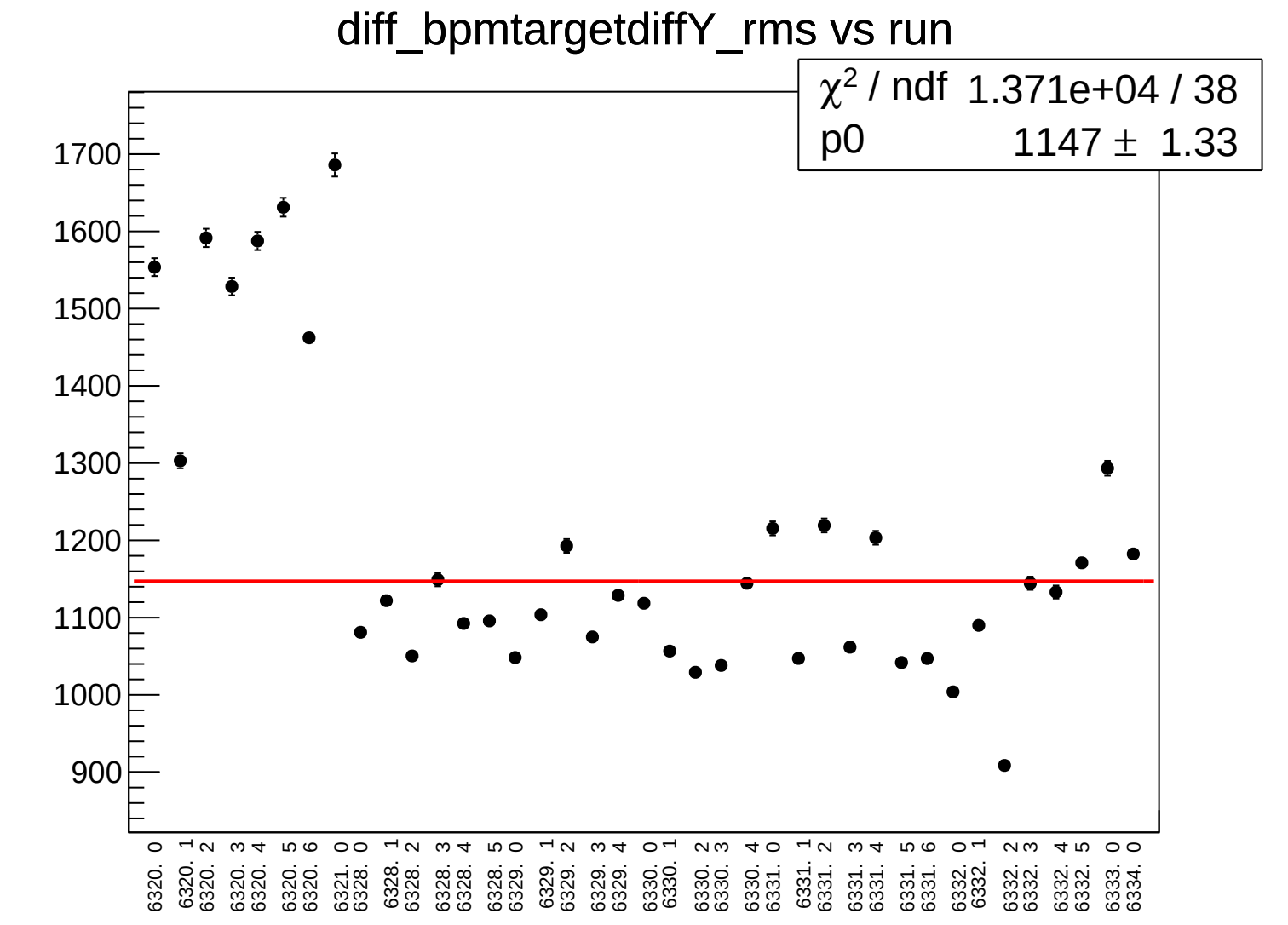

diff_bpmtargetsumY_mean vs run
χ² / ndf 31.47 / 38
p0 3.202 ± 15.17
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 336.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

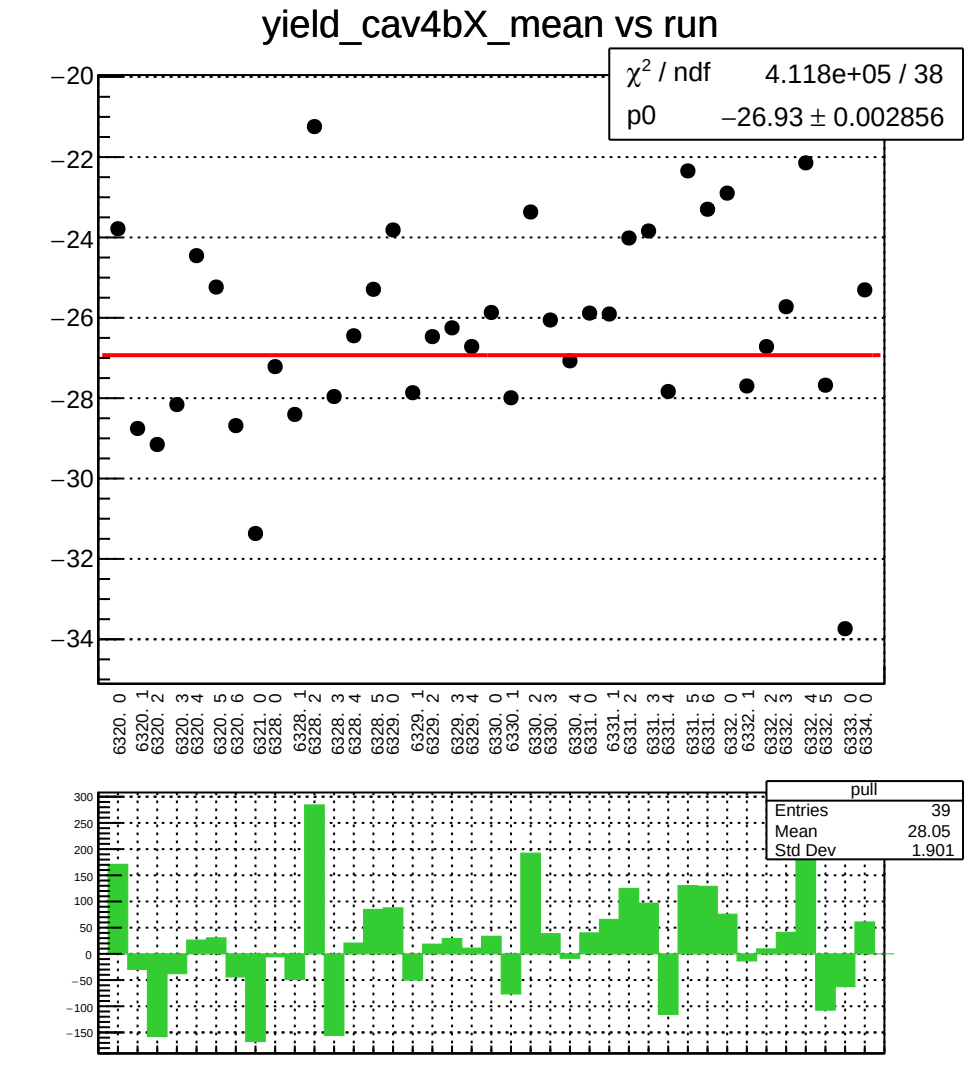

pull1D
Entries 39
Mean −0.01758
Std Dev 0.8981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

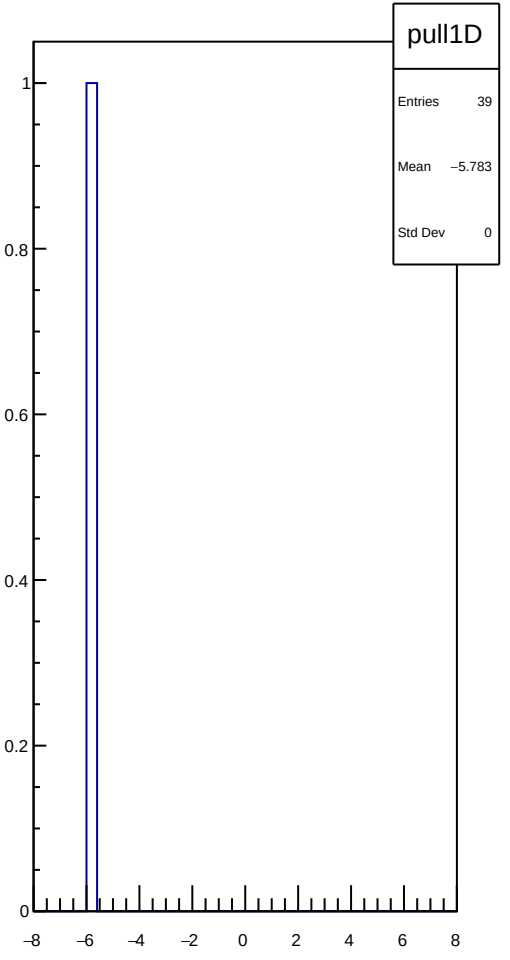

diff_bpmtargetsumY_rms vs run
χ² / ndf 8180 / 38
p0 9288 ± 10.73
11000
10500
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

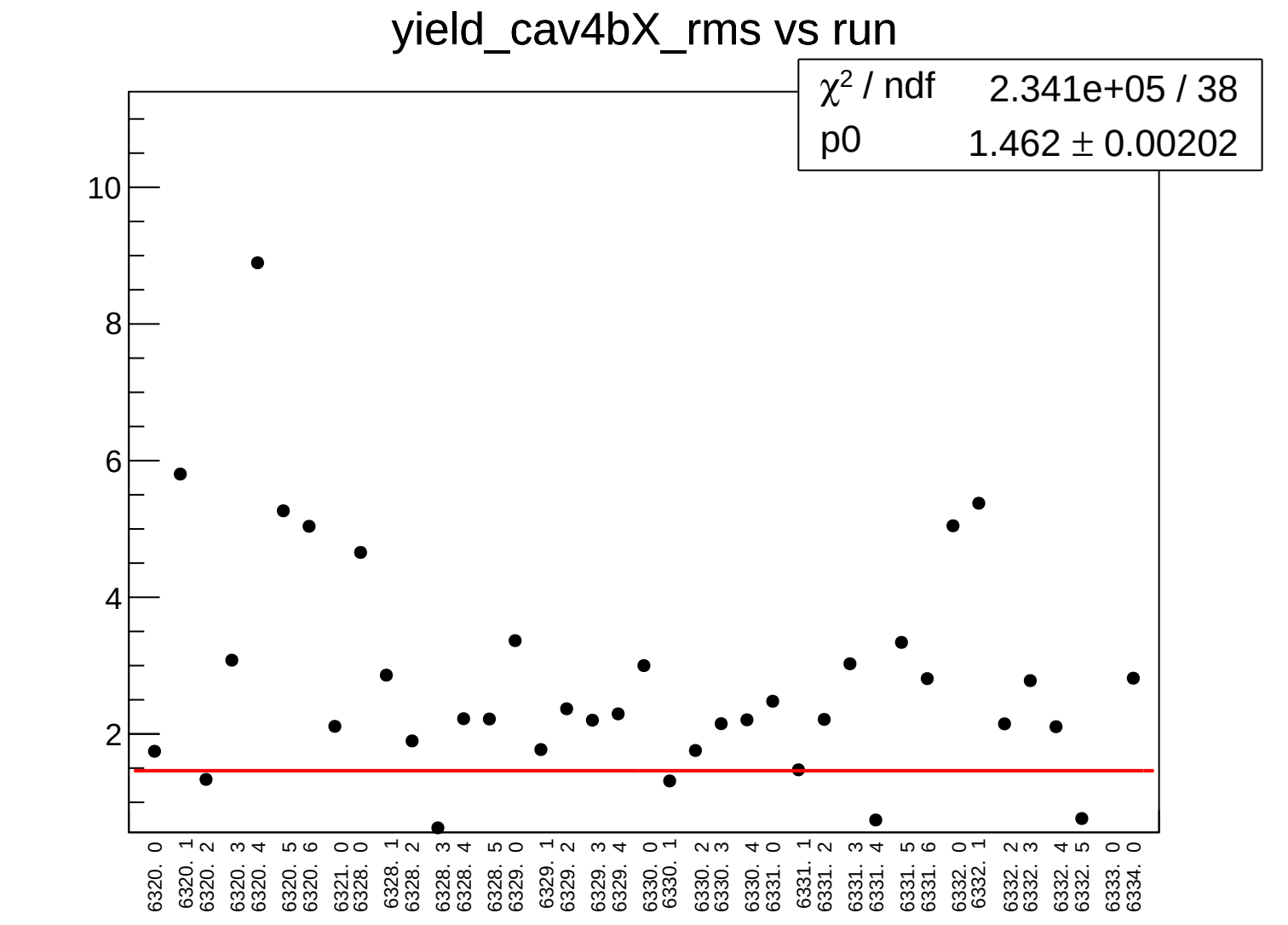

diff_bpmtargetdiffY_mean vs run
χ² / ndf 42.57 / 38
p0 −2.002 ± 1.88
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

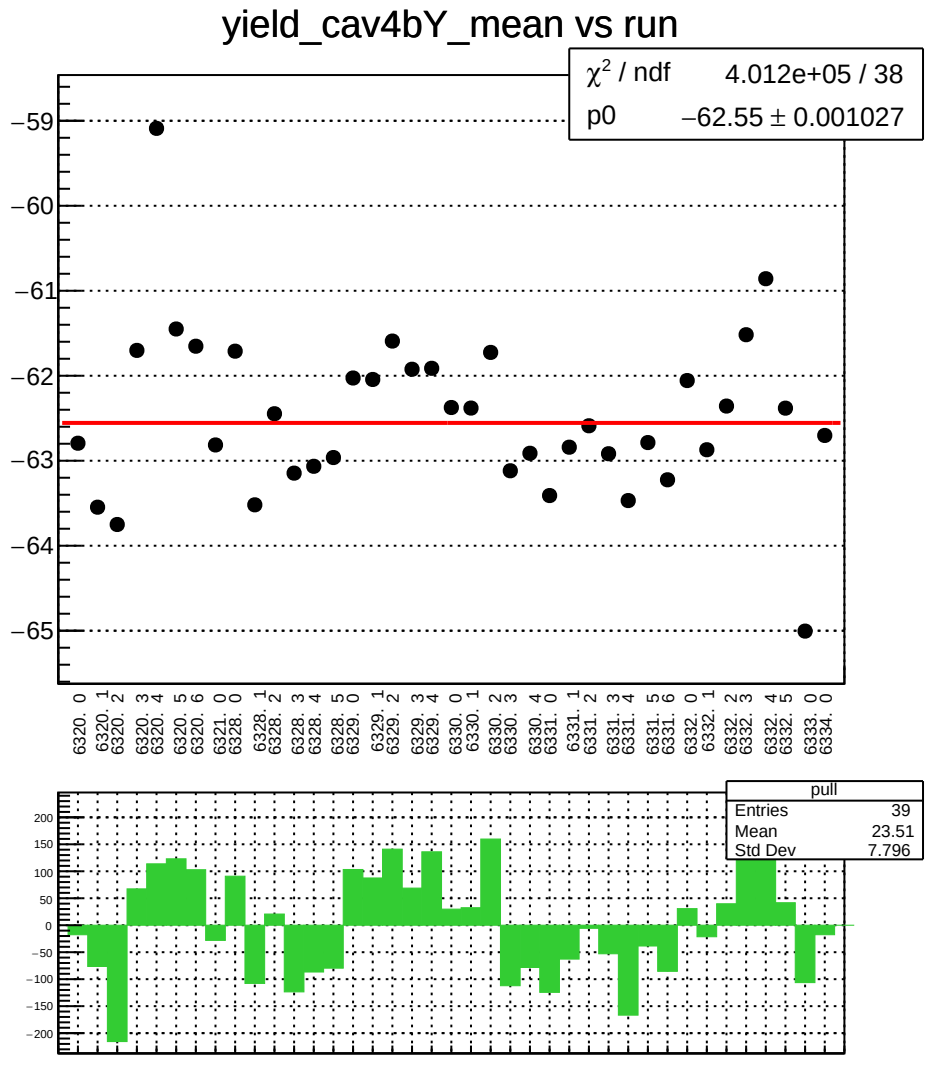

pull1D
Entries 39
Mean 0.06034
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

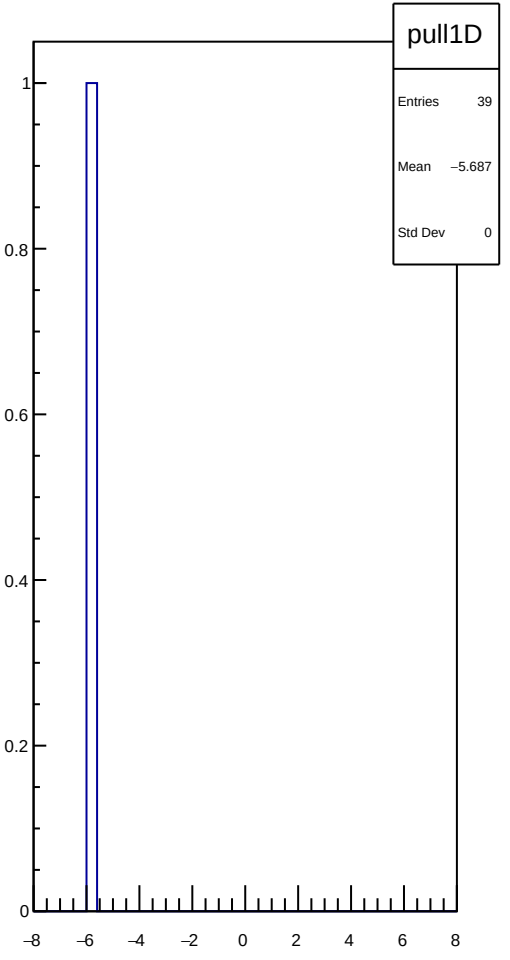

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.371e+04 / 38
p0 1147 ± 1.33
1700
1600
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

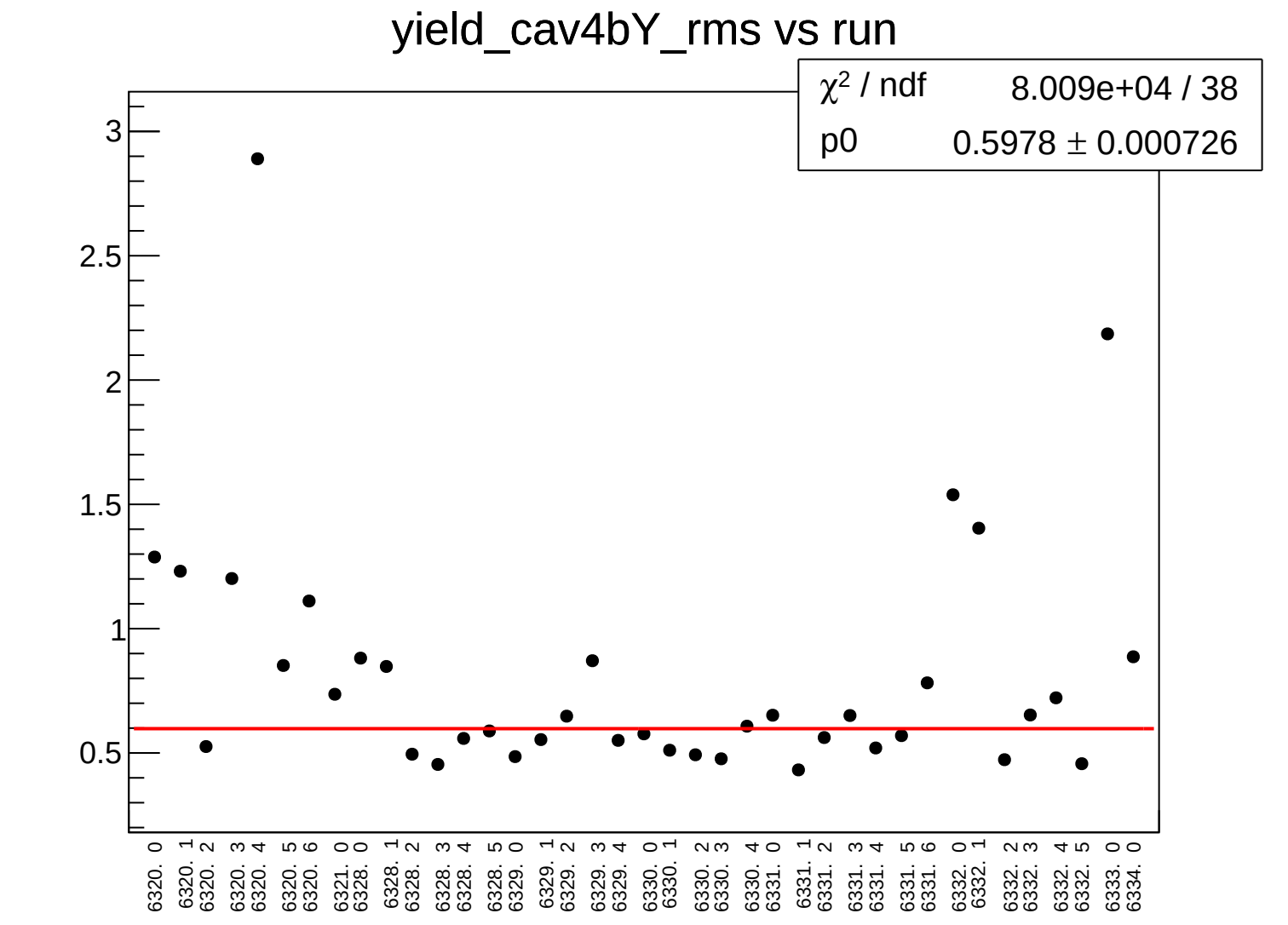

yield_cav4bX_mean vs run
χ² / ndf 4.118e+05 / 38
p0 −26.93 ± 0.002856
−20
−22
−24
−26
−28
−30
−32
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.05
Std Dev 1.901
300
250
200
150
100
50
0
−50
−100
−150

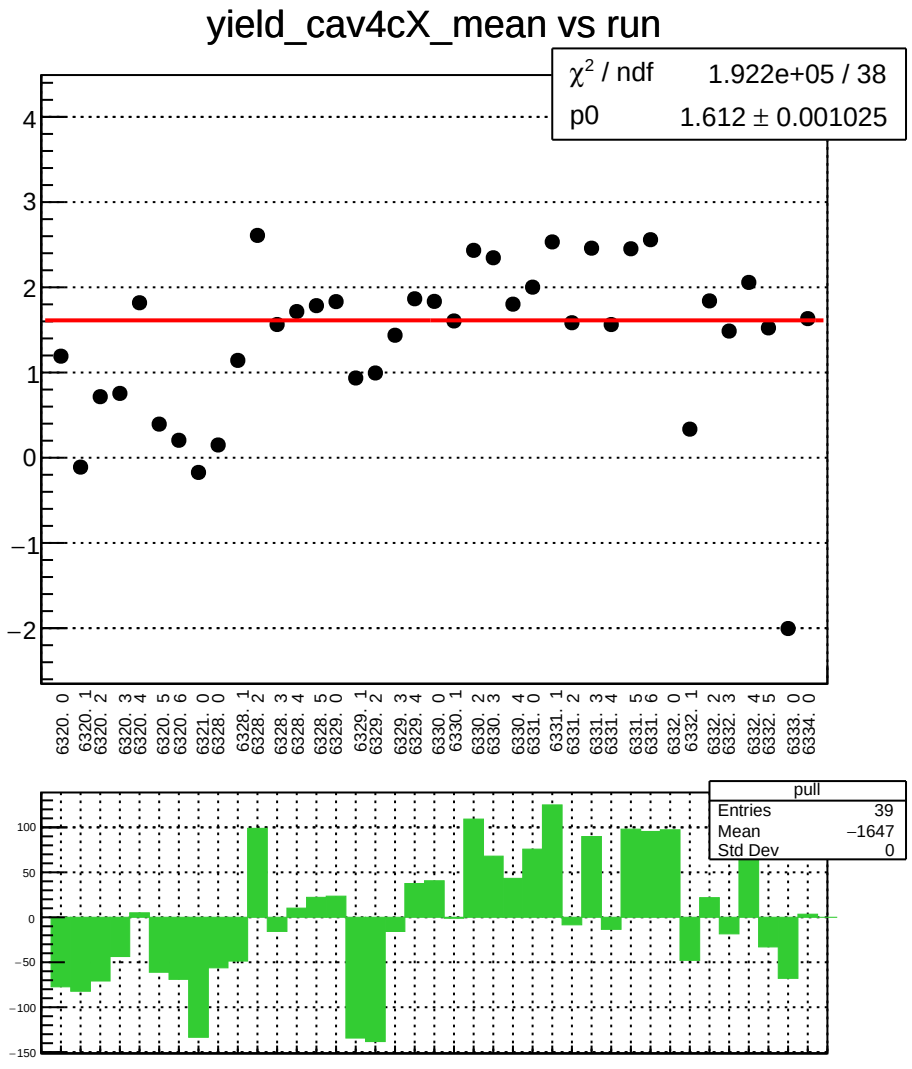

pull1D
Entries 39
Mean −5.783
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

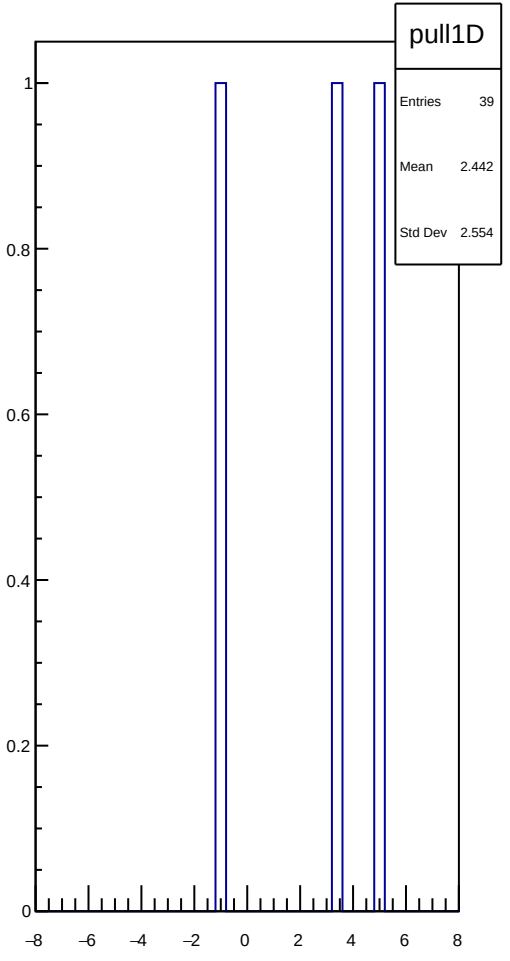

yield_cav4bX_rms vs run
χ^2 / ndf 2.341e+05 / 38
p0 1.462 ± 0.00202
10
8
6
4
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

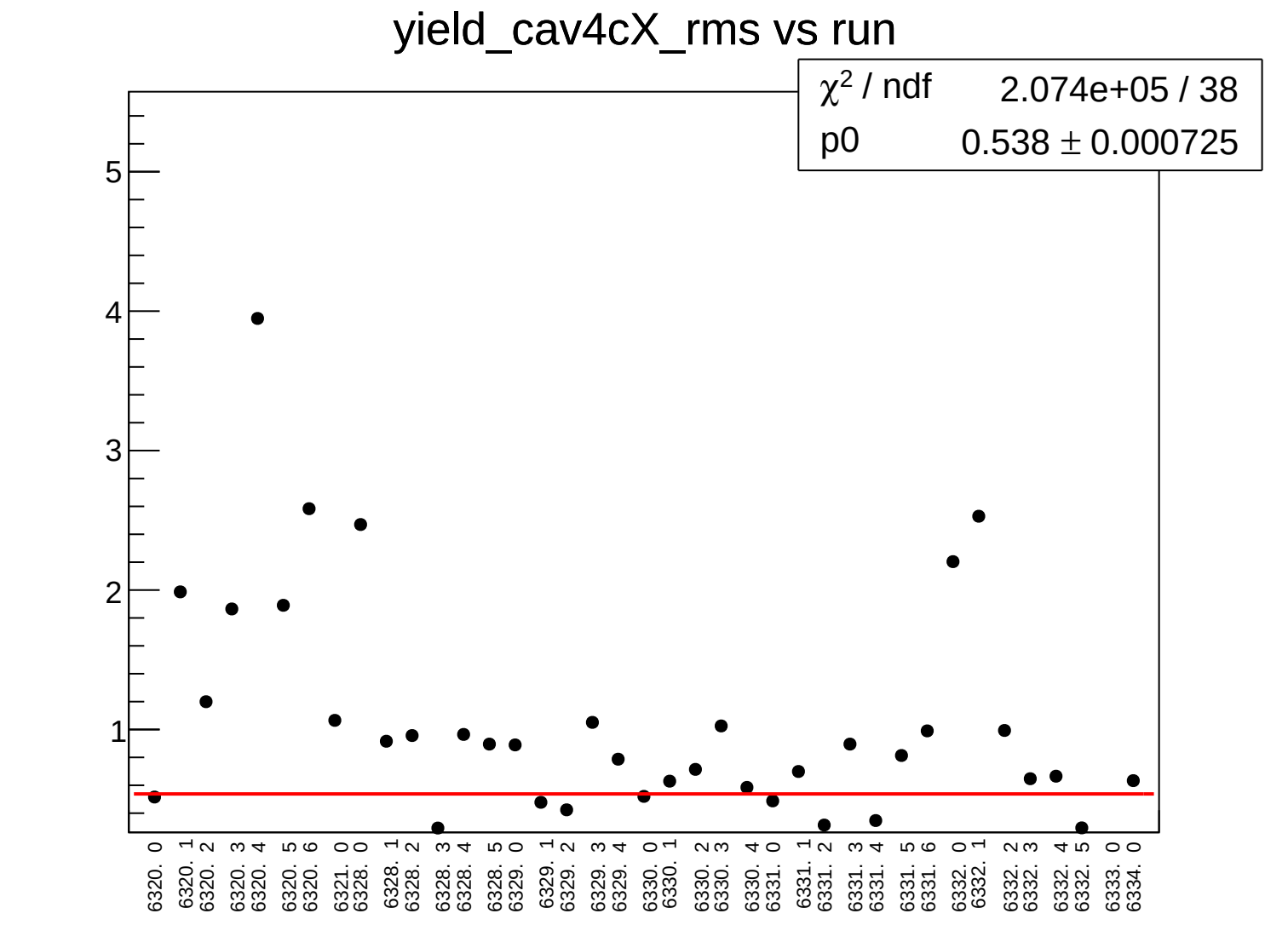

yield_cav4bY_mean vs run
χ² / ndf 4.012e+05 / 38
p0 −62.55 ± 0.001027
−59
−60
−61
−62
−63
−64
−65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.51
Std Dev 7.796
200
150
100
50
0
−50
−100
−150
−200

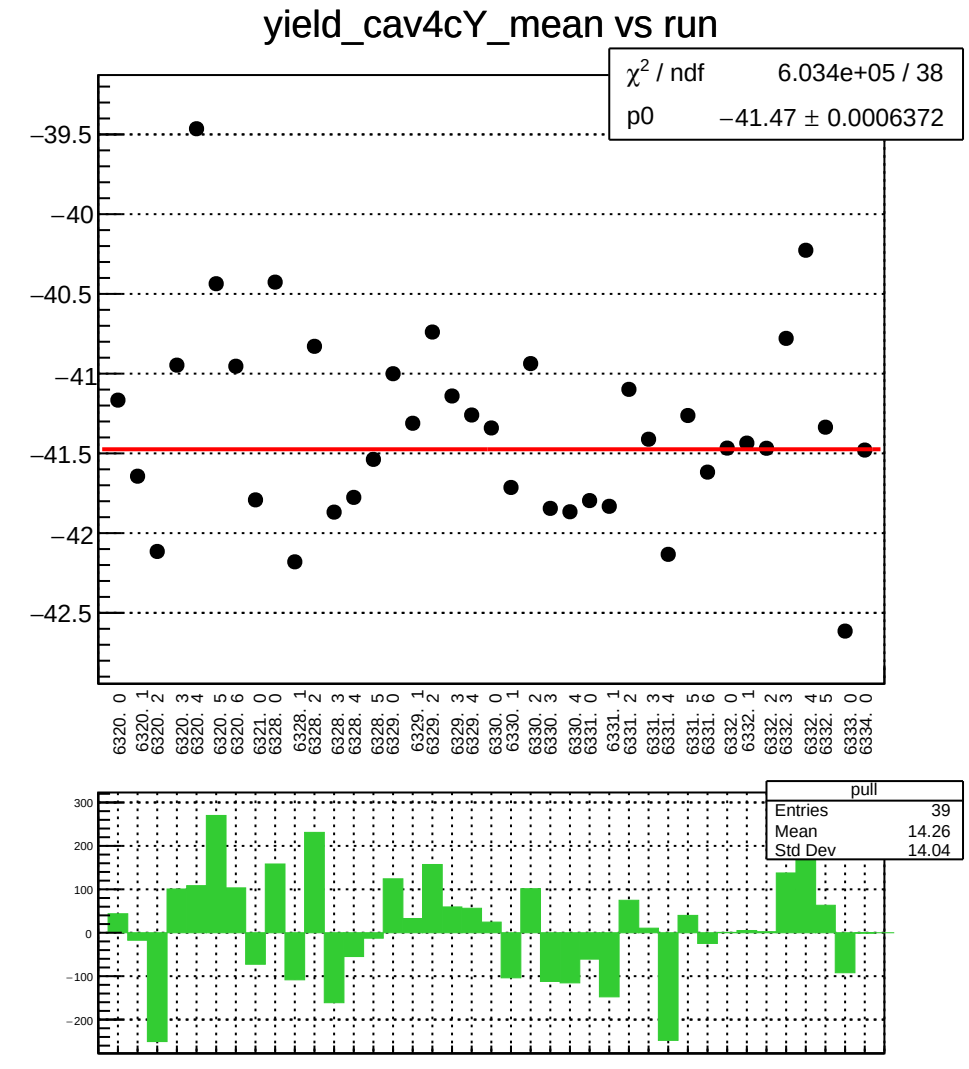

pull1D
Entries 39
Mean −5.687
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

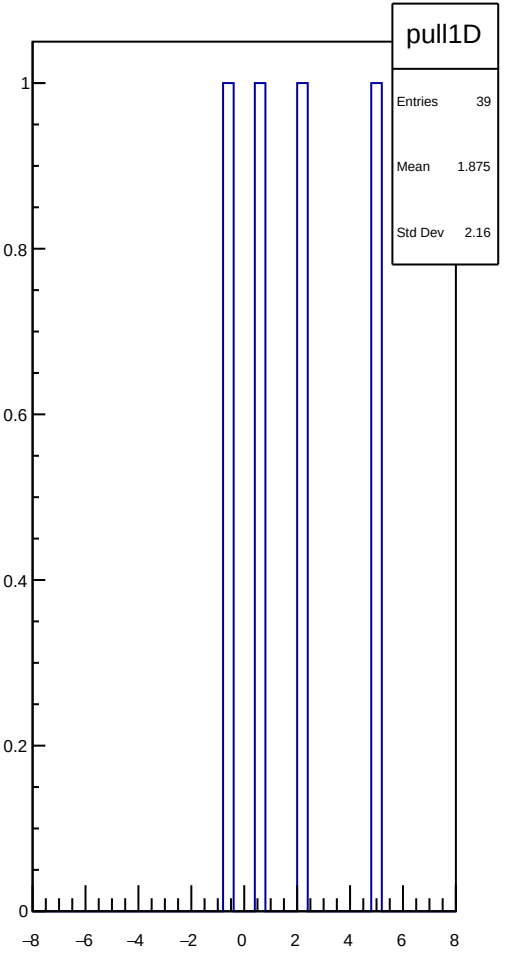

yield_cav4bY_rms vs run
χ² / ndf 8.009e+04 / 38
p0 0.5978 ± 0.000726
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

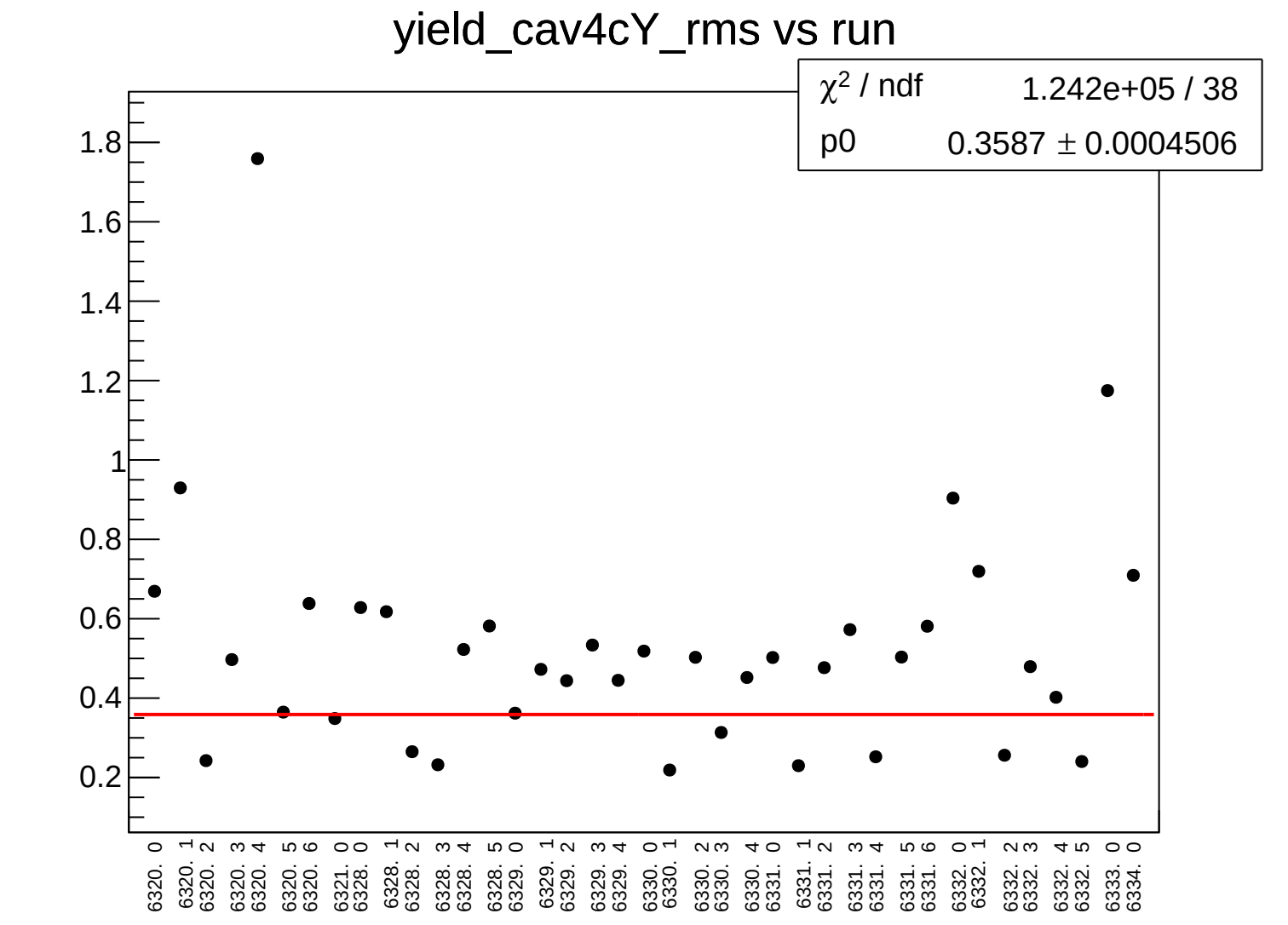

yield_cav4cX_mean vs run
χ² / ndf 1.922e+05 / 38
p0 1.612 ± 0.001025
pull
Entries 39
Mean −1647
Std Dev 0

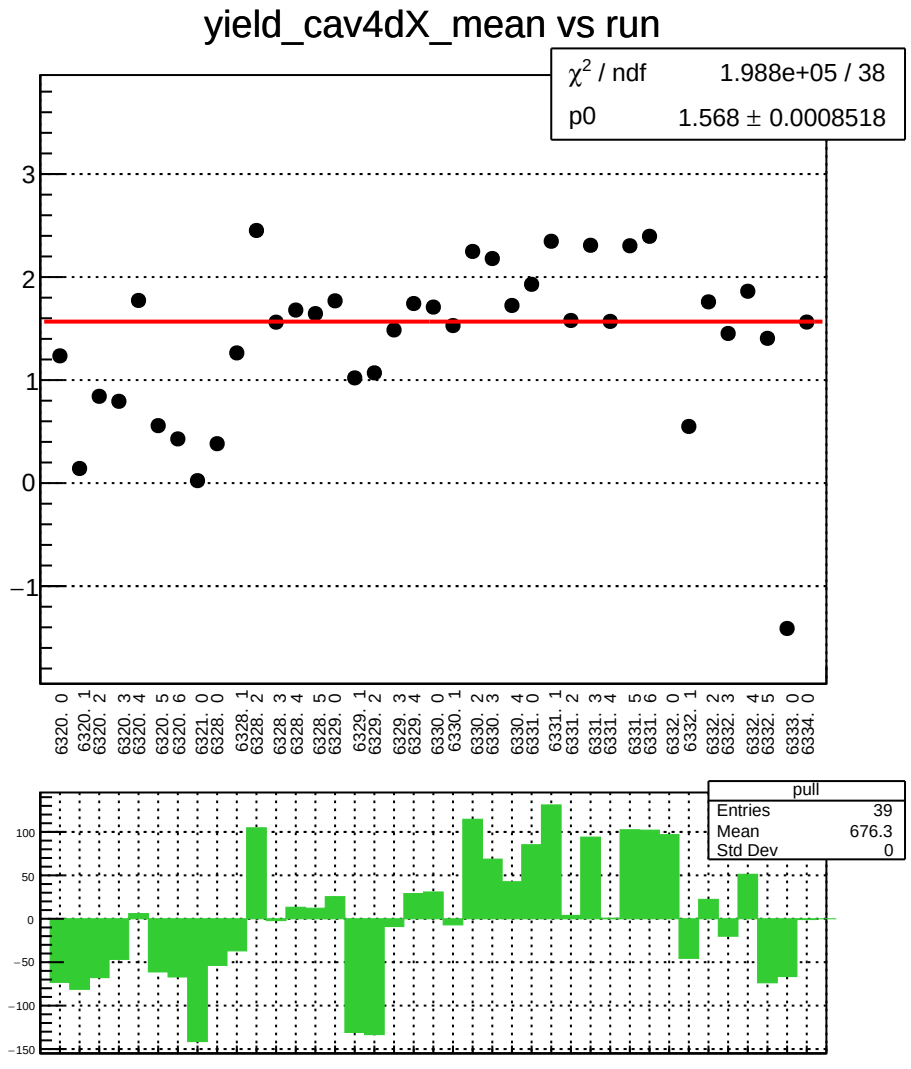

pull1D
Entries 39
Mean 2.442
Std Dev 2.554

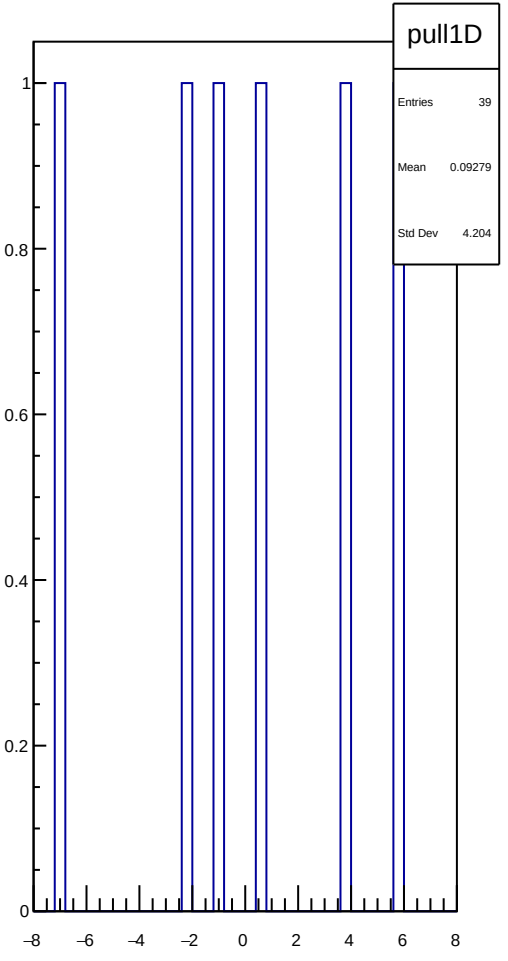

yield_cav4cX_rms vs run
χ^2 / ndf 2.074e+05 / 38
p0 0.538 ± 0.000725
5
4
3
2
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

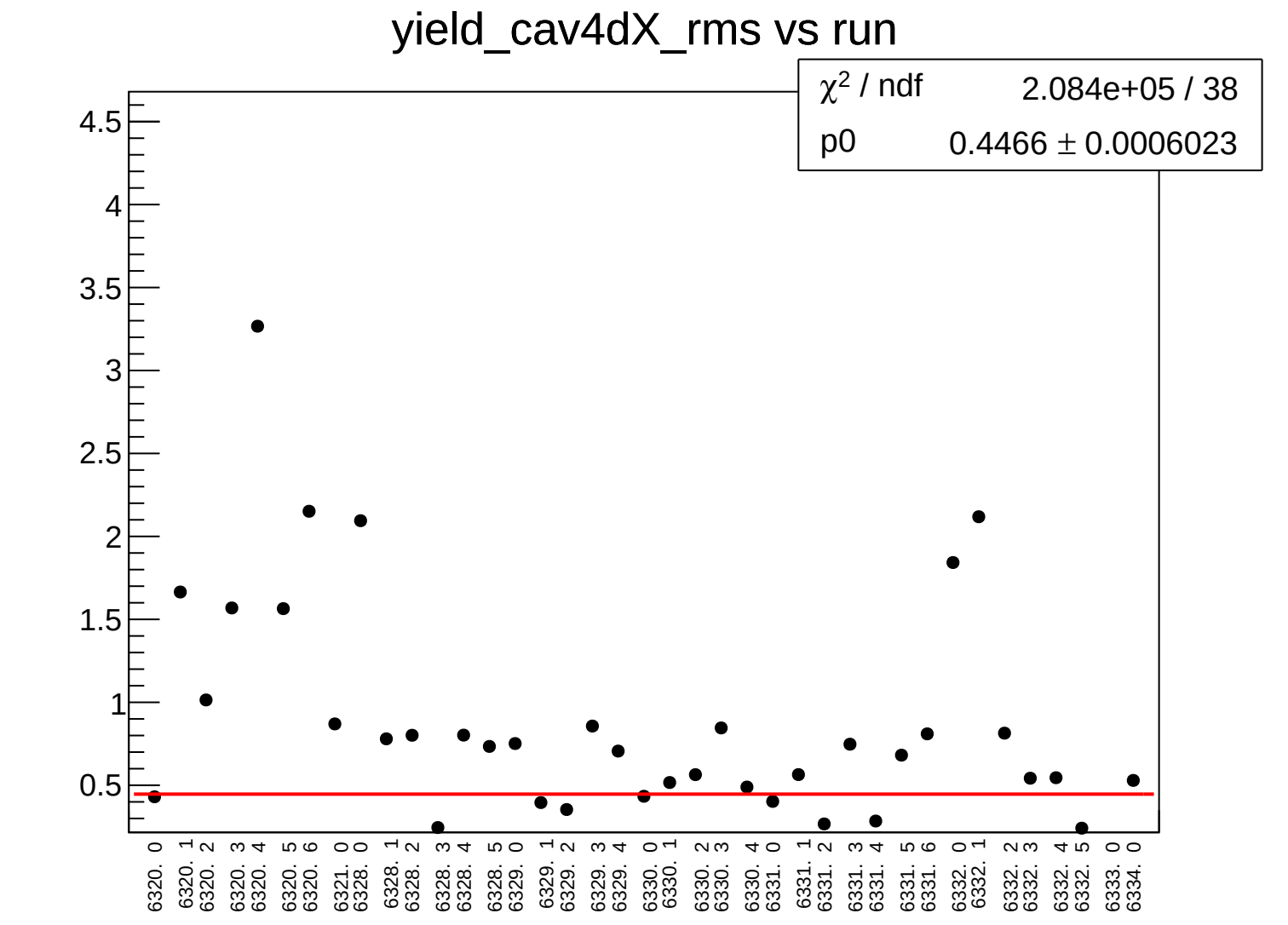

yield_cav4cY_mean vs run
χ² / ndf 6.034e+05 / 38
p0 −41.47 ± 0.0006372
−39.5
−40
−40.5
−41
−41.5
−42
−42.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 14.26
Std Dev 14.04
300
200
100
0
−100
−200

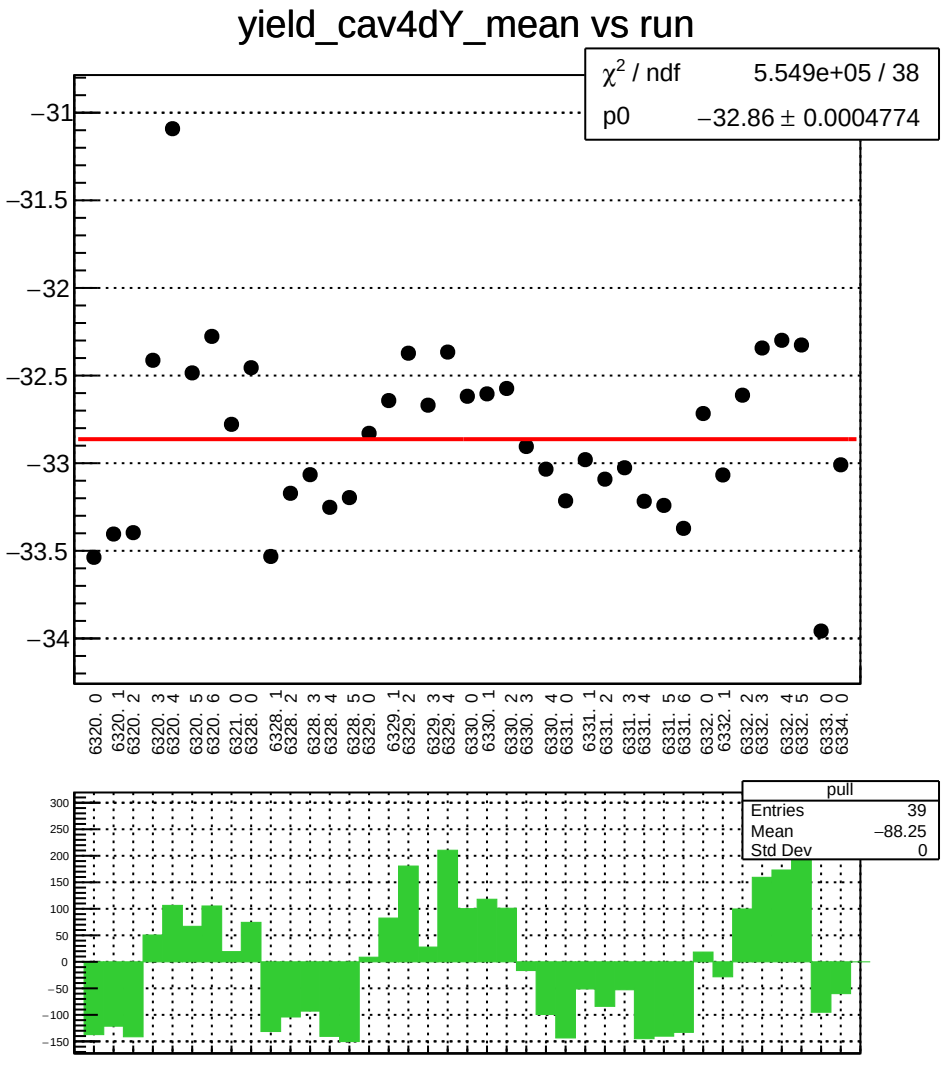

pull1D
Entries 39
Mean 1.875
Std Dev 2.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

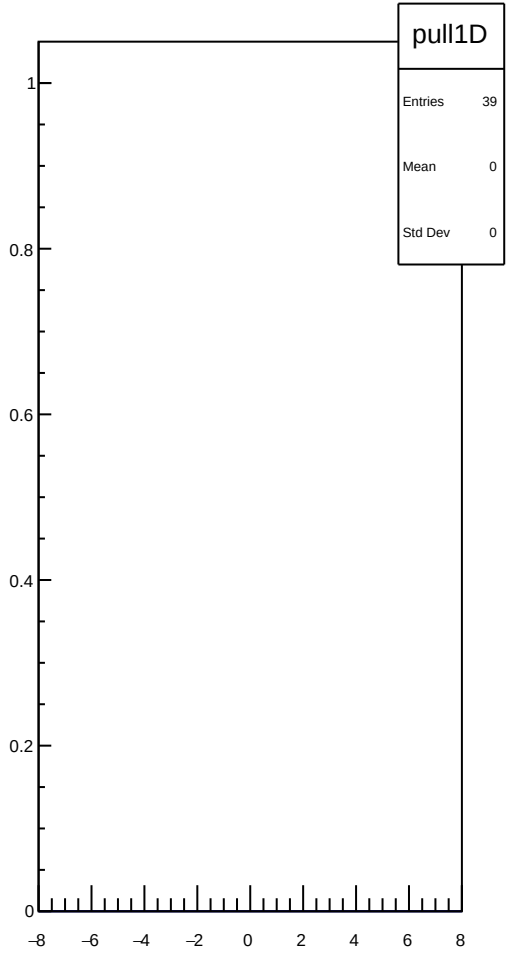

yield_cav4cY_rms vs run
χ² / ndf 1.242e+05 / 38
p0 0.3587 ± 0.0004506
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

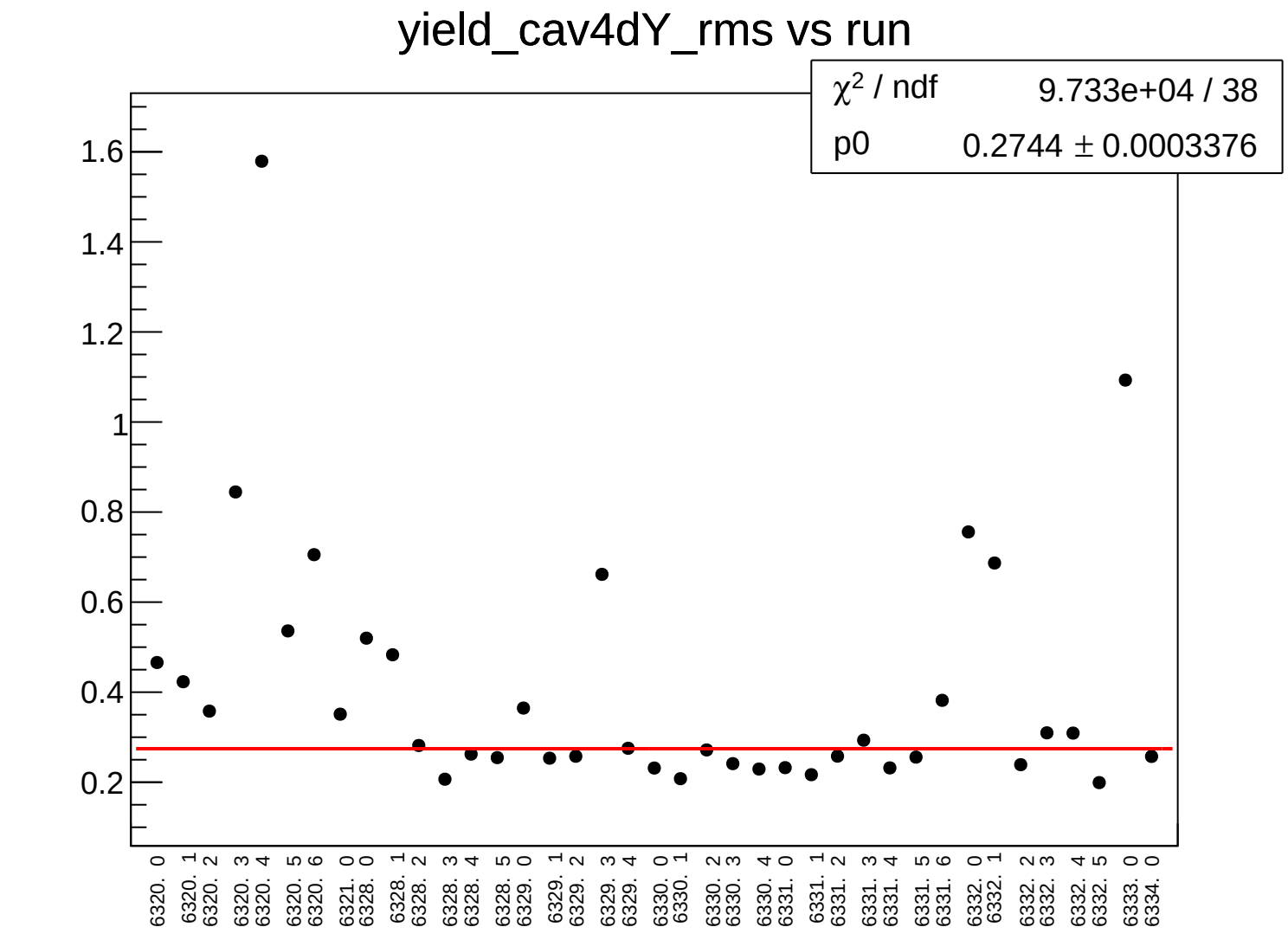

yield_cav4dX_mean vs run
χ² / ndf 1.988e+05 / 38
p0 1.568 ± 0.0008518
pull
Entries 39
Mean 676.3
Std Dev 0

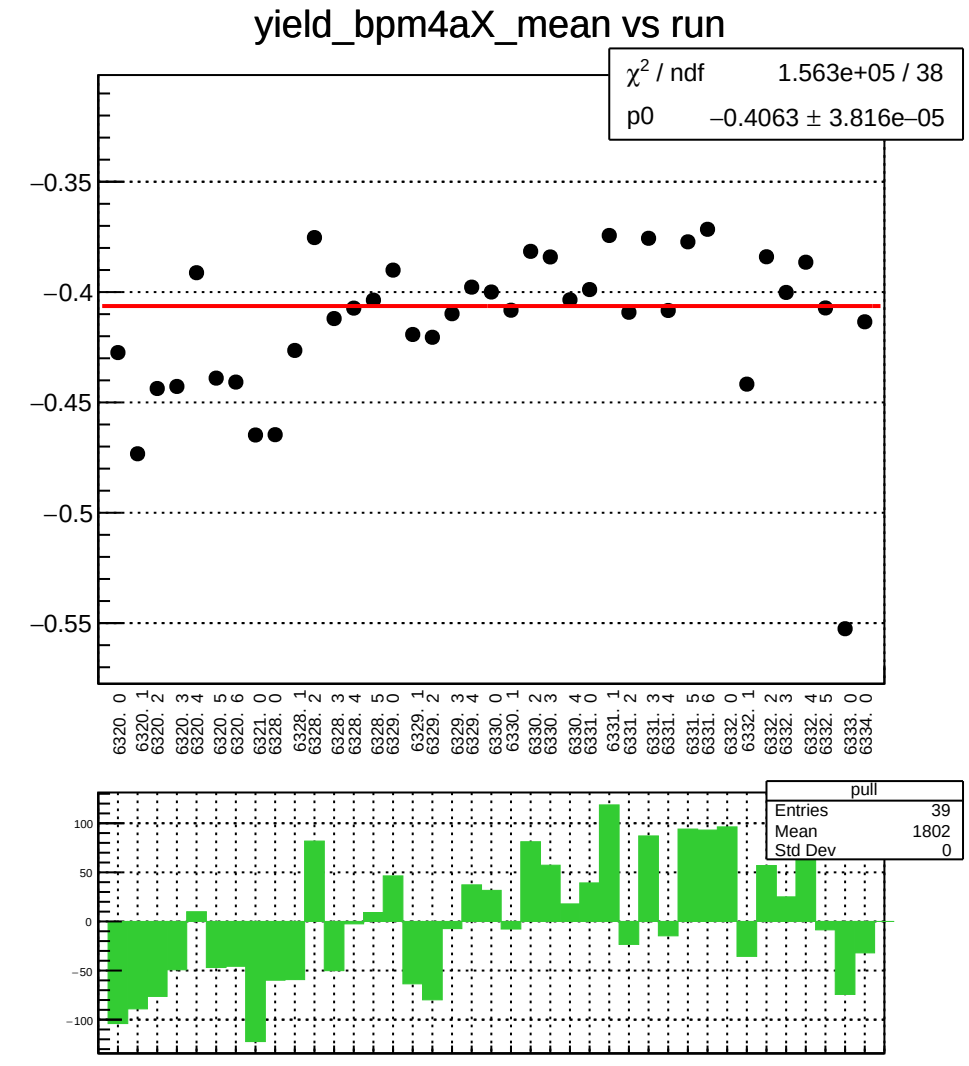

pull1D
Entries 39
Mean 0.09279
Std Dev 4.204

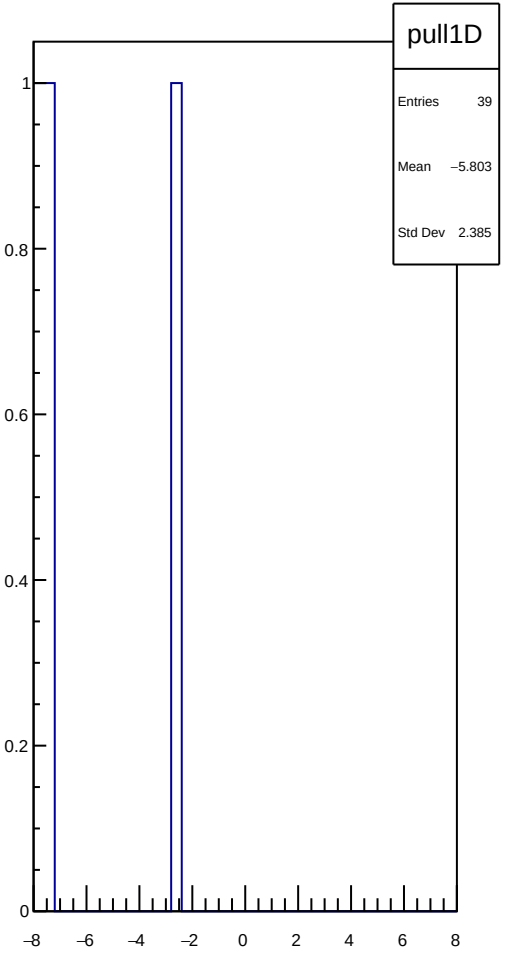

yield_cav4dX_rms vs run
χ² / ndf 2.084e+05 / 38
p0 0.4466 ± 0.0006023
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

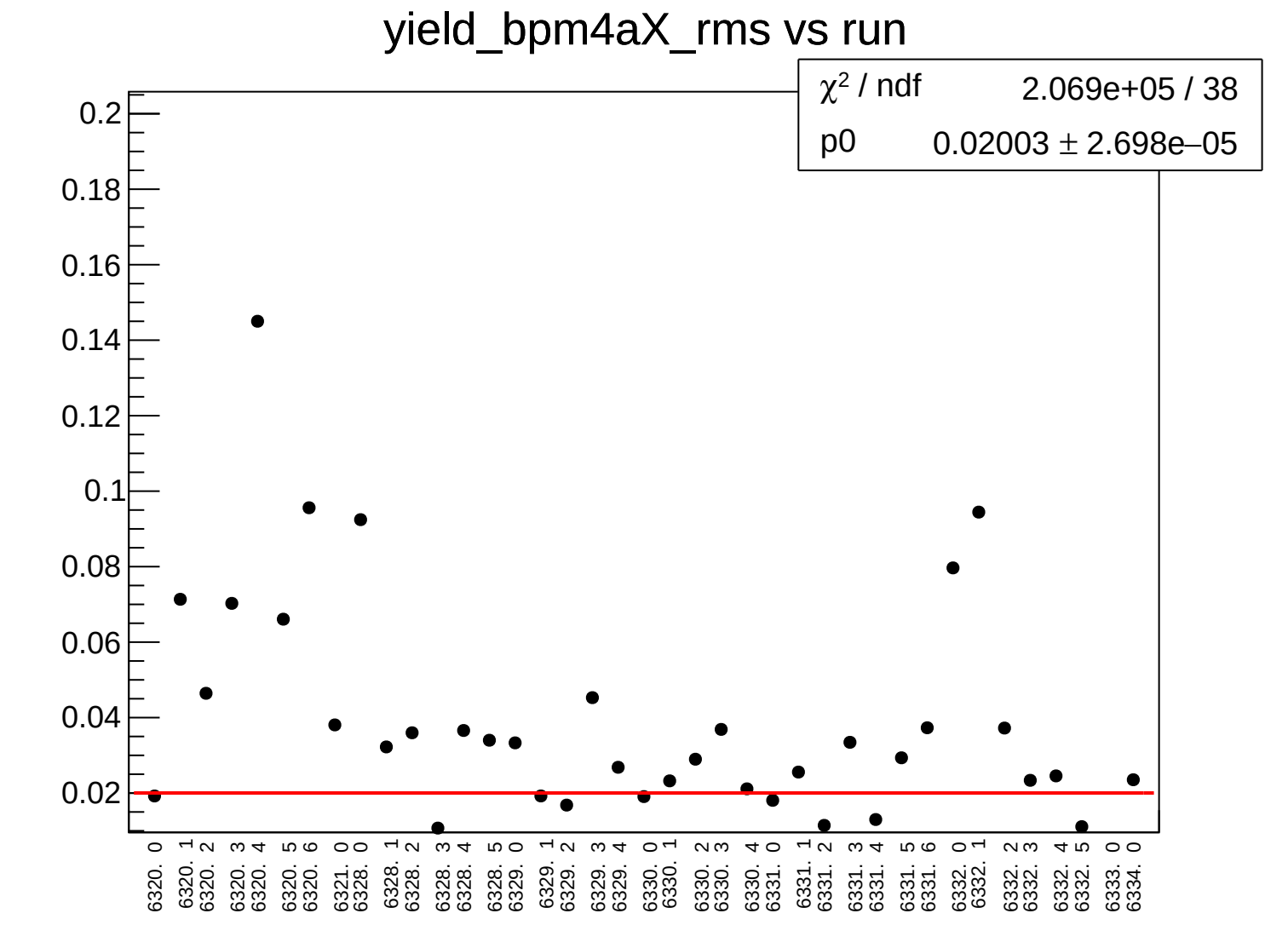

yield_cav4dY_mean vs run
χ² / ndf 5.549e+05 / 38
p0 −32.86 ± 0.0004774
−31
−31.5
−32
−32.5
−33
−33.5
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −88.25
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

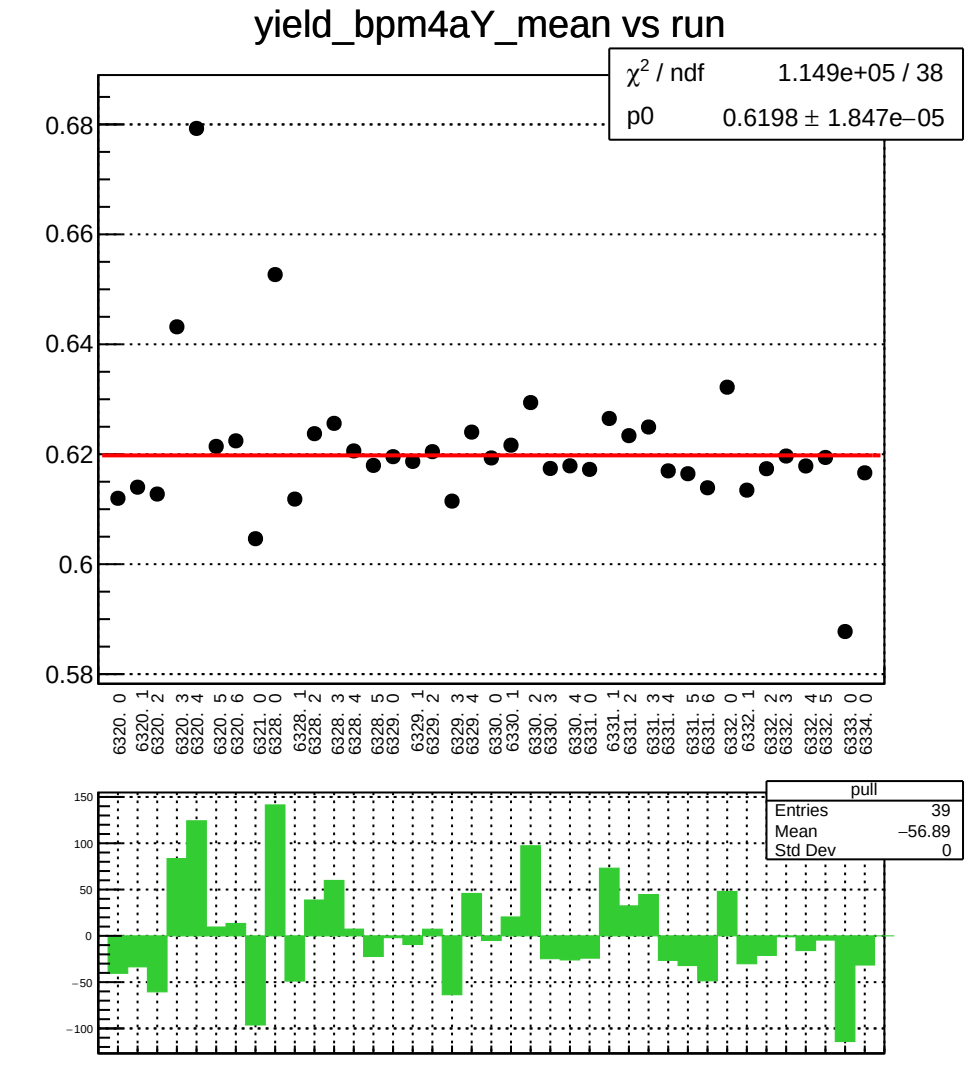

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

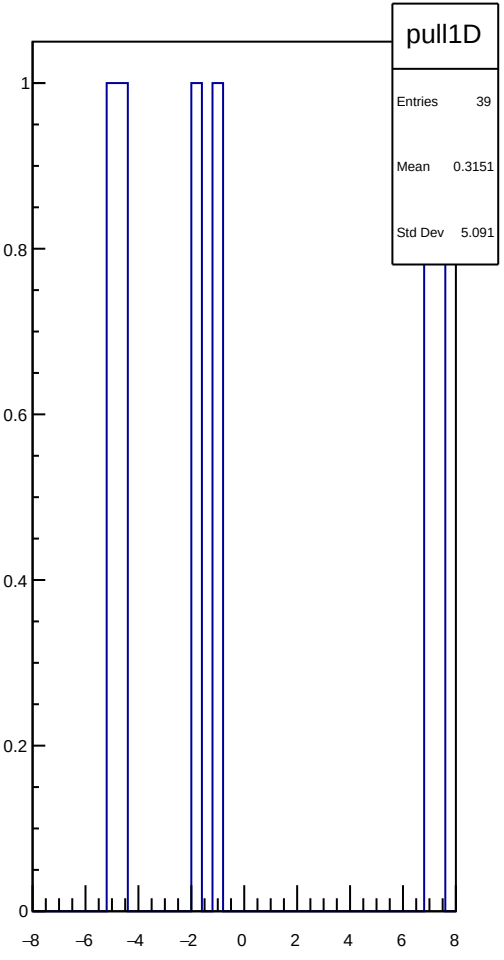

yield_cav4dY_rms vs run
χ² / ndf 9.733e+04 / 38
p0 0.2744 ± 0.0003376
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

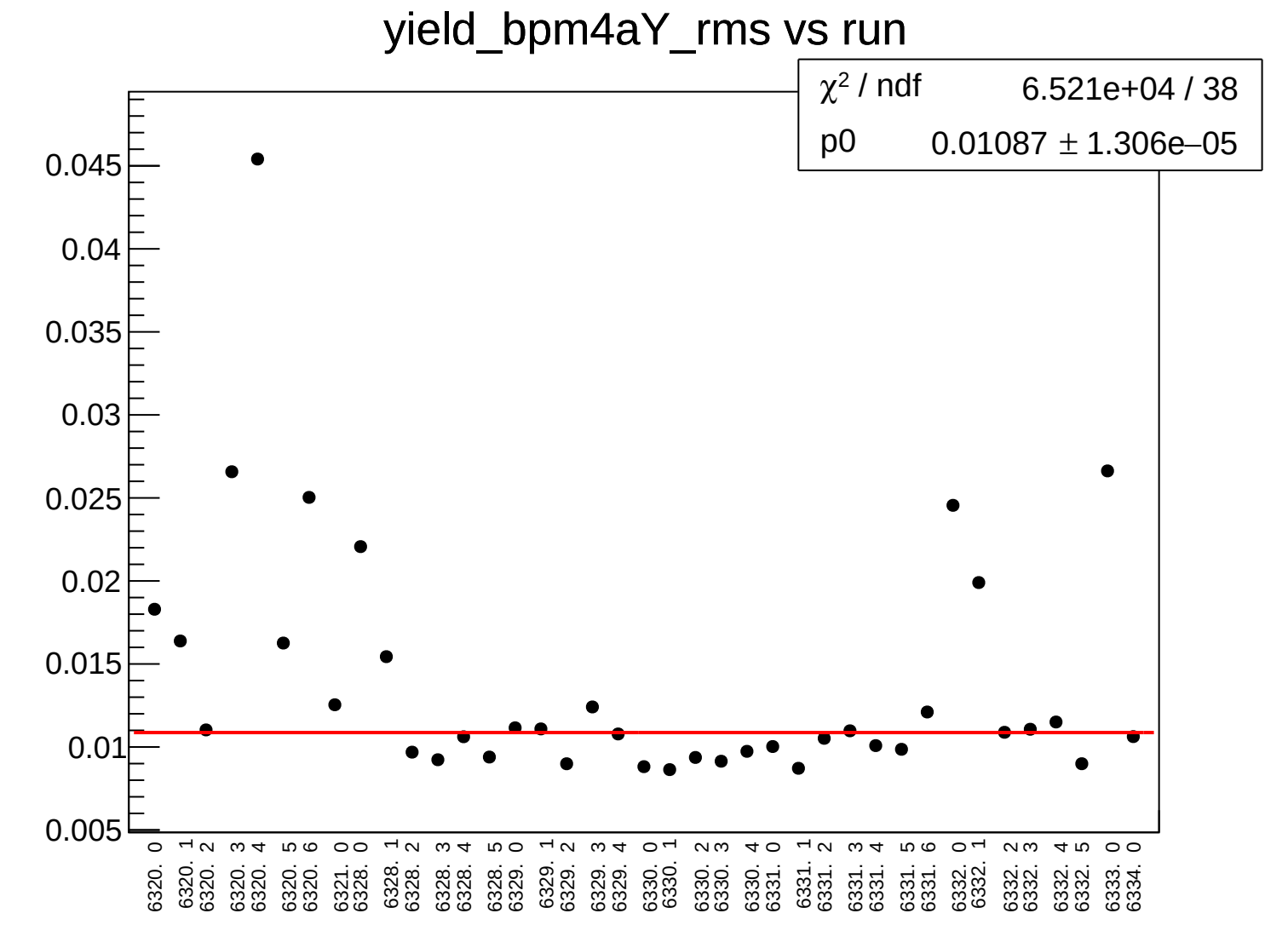

yield_bpm4aX_mean vs run
χ² / ndf 1.563e+05 / 38
p0 −0.4063 ± 3.816e−05
−0.35
−0.4
−0.45
−0.5
−0.55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1802
Std Dev 0
100
50
0
−50
−100

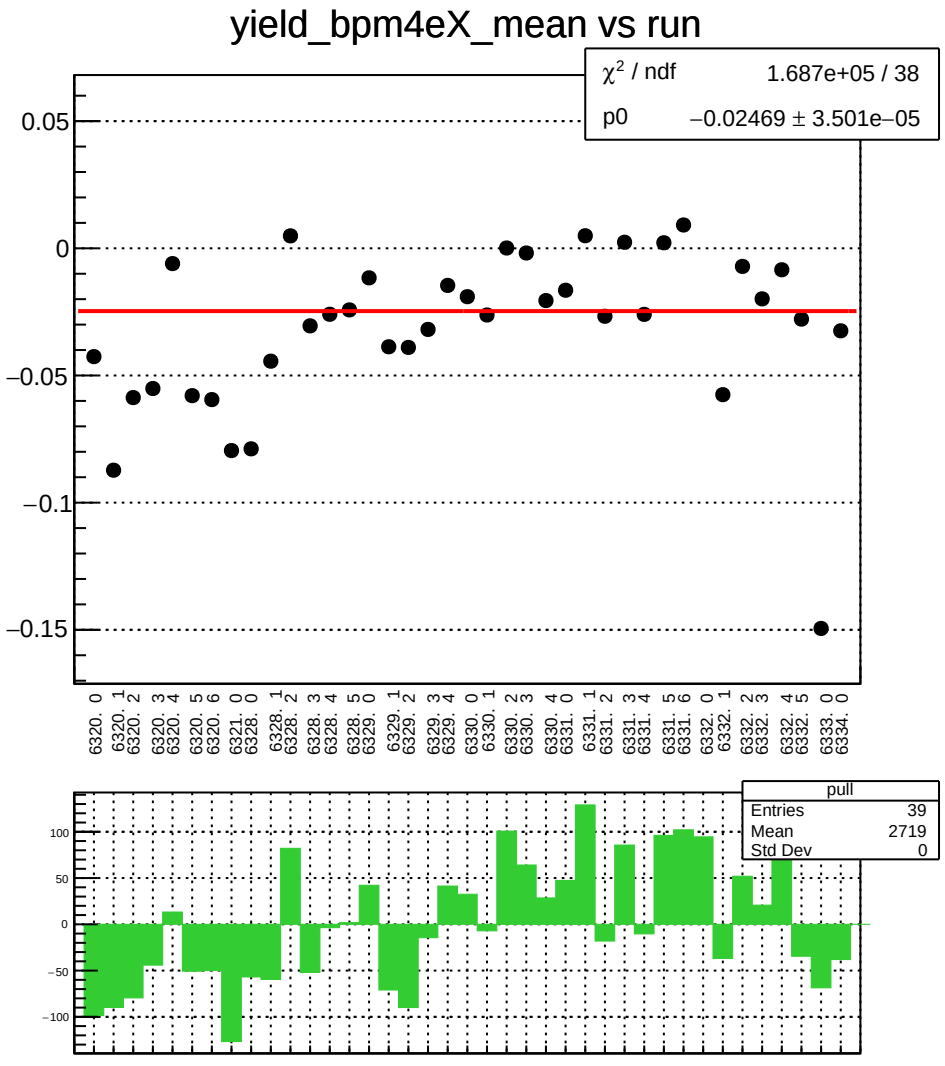

pull1D
Entries 39
Mean −5.803
Std Dev 2.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

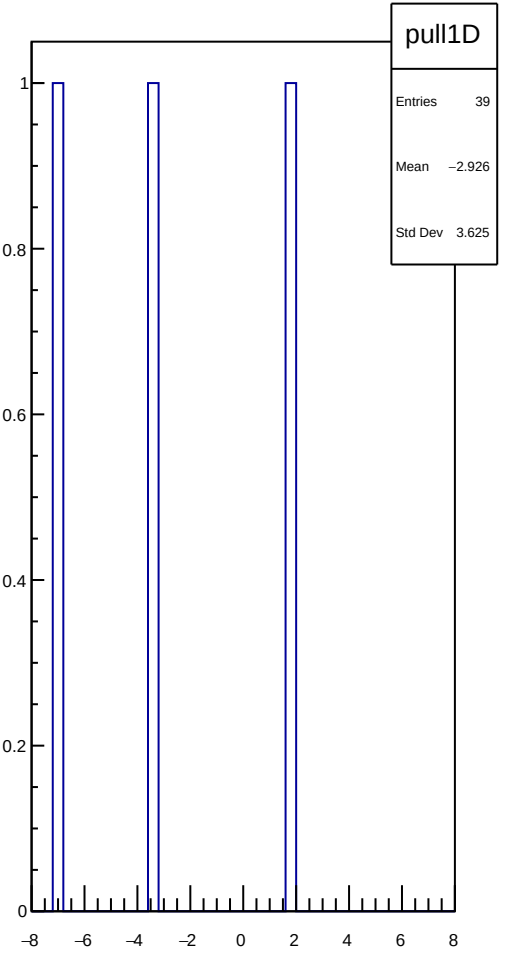

yield_bpm4aX_rms vs run
χ² / ndf 2.069e+05 / 38
p0 0.02003 ± 2.698e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

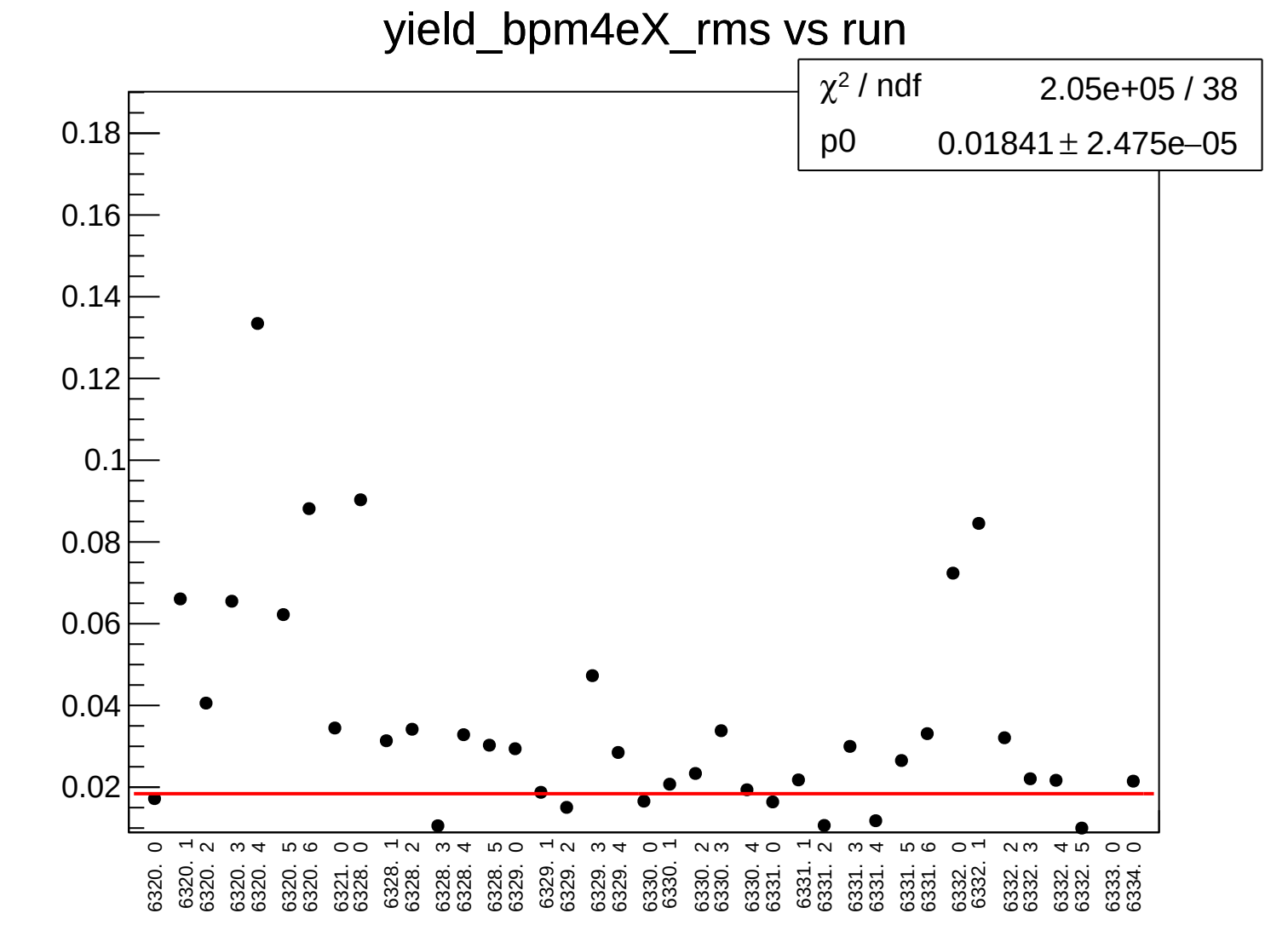

yield_bpm4aY_mean vs run
χ² / ndf 1.149e+05 / 38
p0 0.6198 ± 1.847e−05
0.68
0.66
0.64
0.62
0.6
0.58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −56.89
Std Dev 0
150
100
50
0
−50
−100

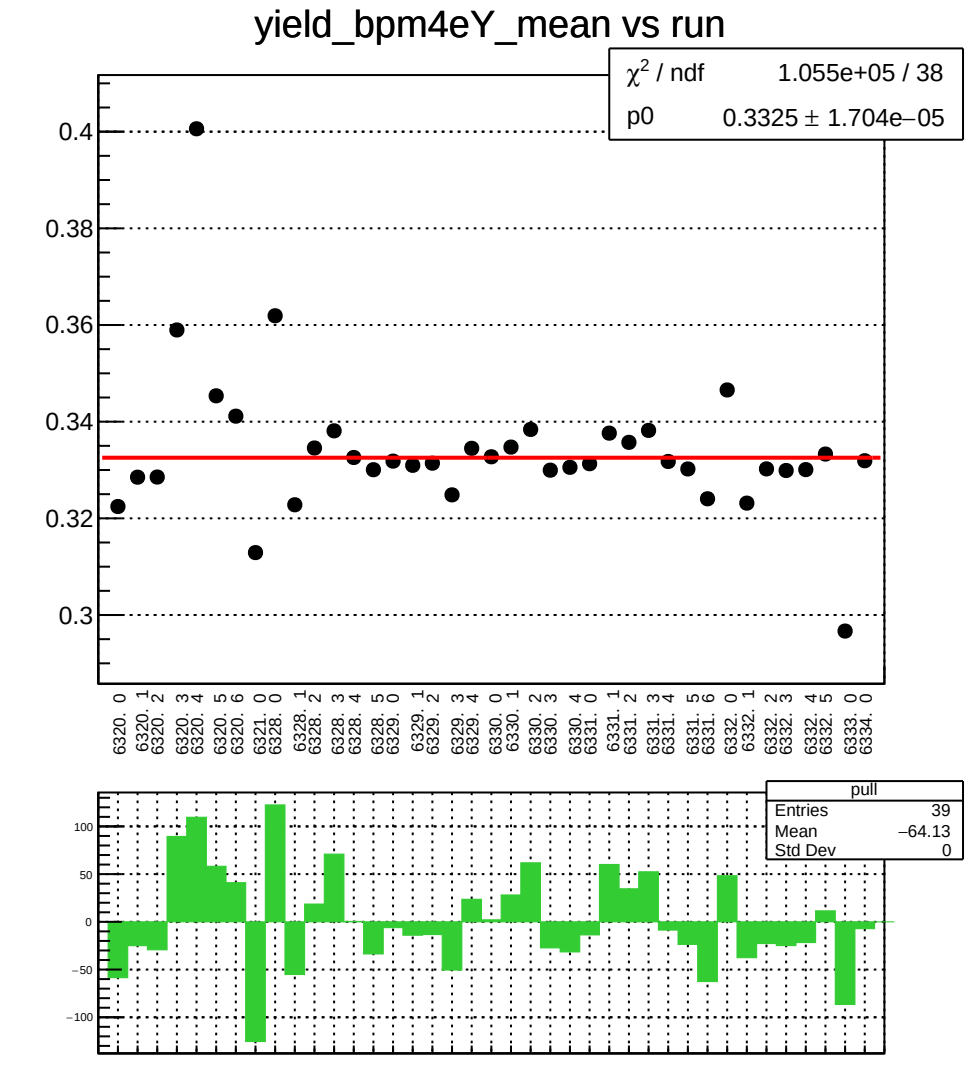

pull1D
Entries 39
Mean 0.3151
Std Dev 5.091
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

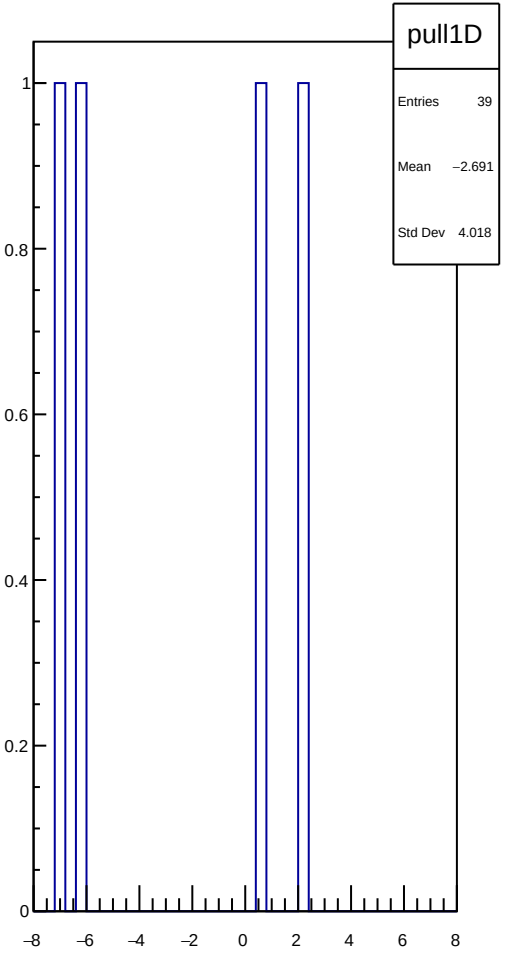

yield_bpm4aY_rms vs run
χ² / ndf 6.521e+04 / 38
p0 0.01087 ± 1.306e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

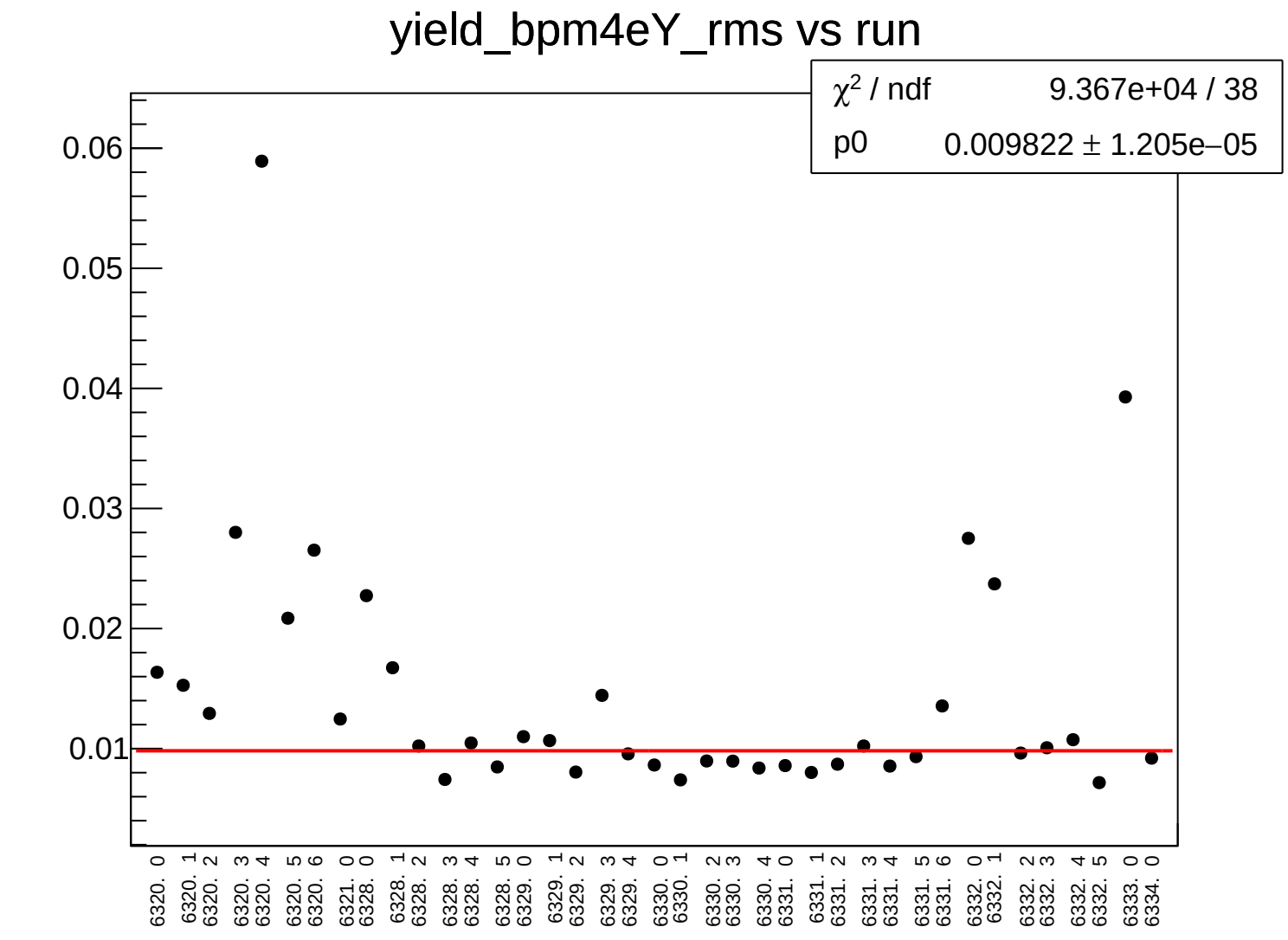

yield_bpm4eX_mean vs run
χ² / ndf 1.687e+05 / 38
p0 −0.02469 ± 3.501e−05
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 2719
Std Dev 0
100
50
0
−50
−100

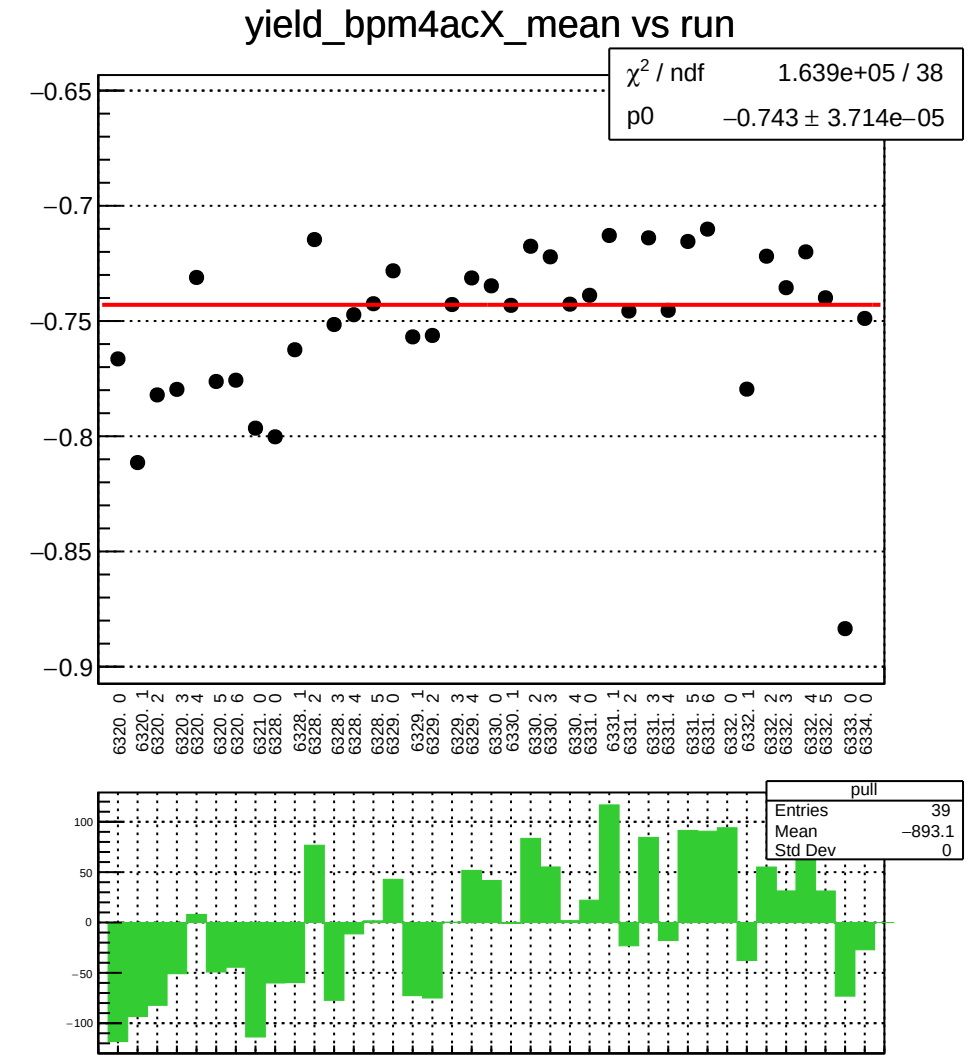

pull1D
Entries 39
Mean −2.926
Std Dev 3.625
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

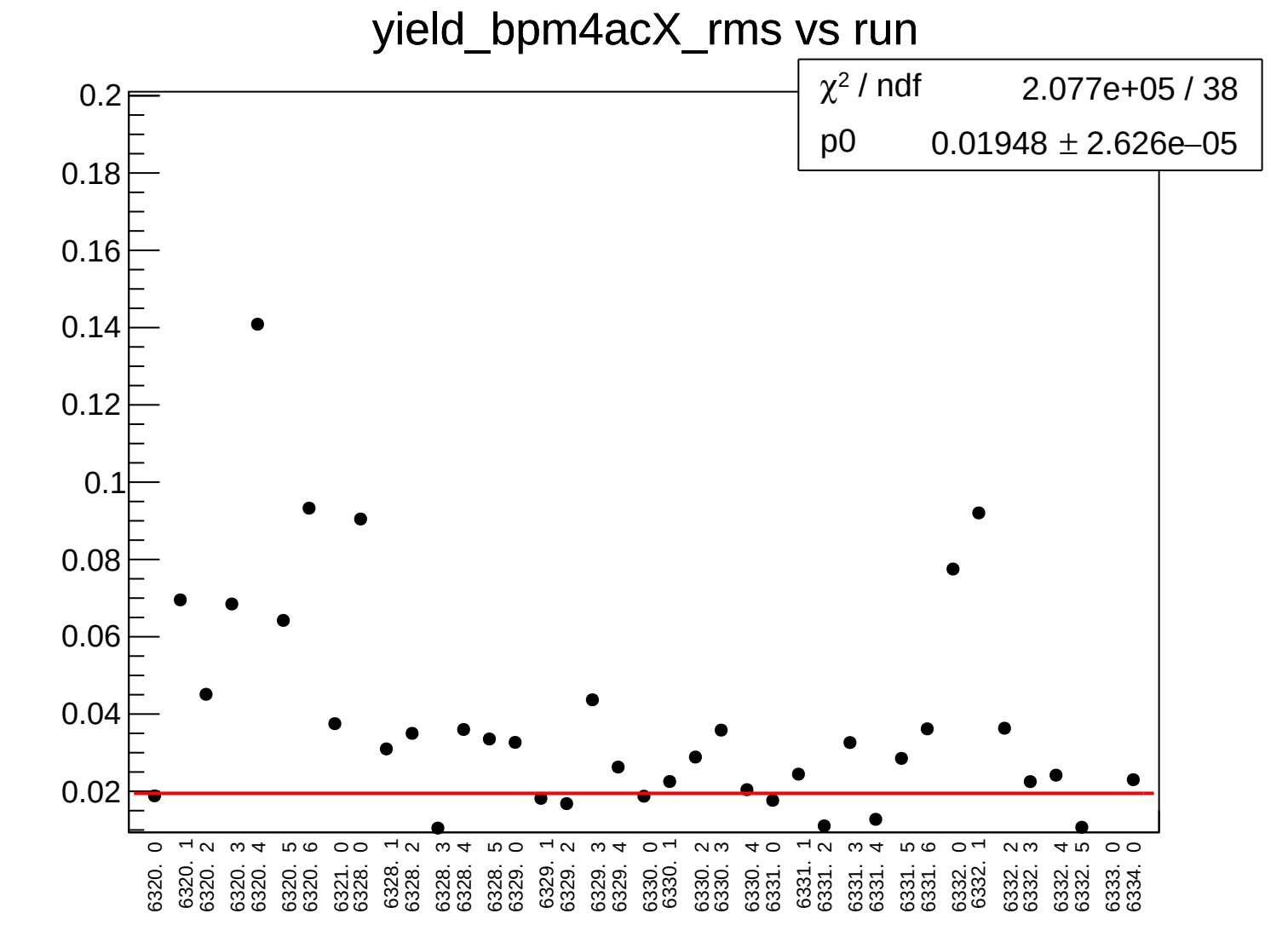

yield_bpm4eX_rms vs run
χ² / ndf 2.05e+05 / 38
p0 0.01841 ± 2.475e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

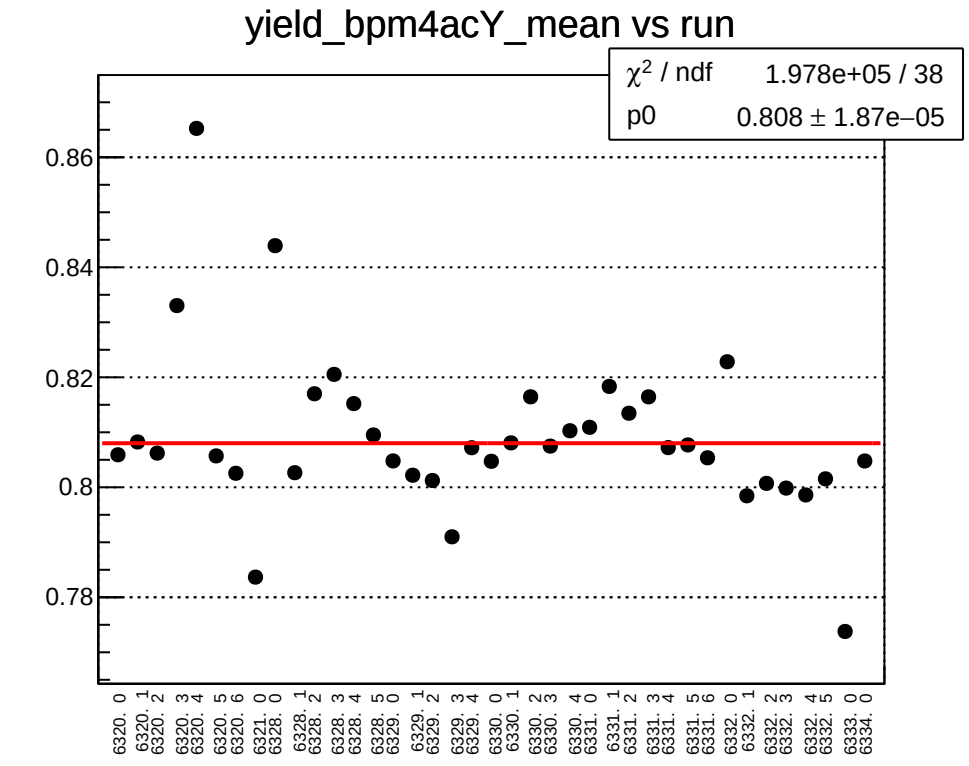

yield_bpm4eY_mean vs run
χ² / ndf 1.055e+05 / 38
p0 0.3325 ± 1.704e−05
0.4
0.38
0.36
0.34
0.32
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −64.13
Std Dev 0
100
50
0
−50
−100

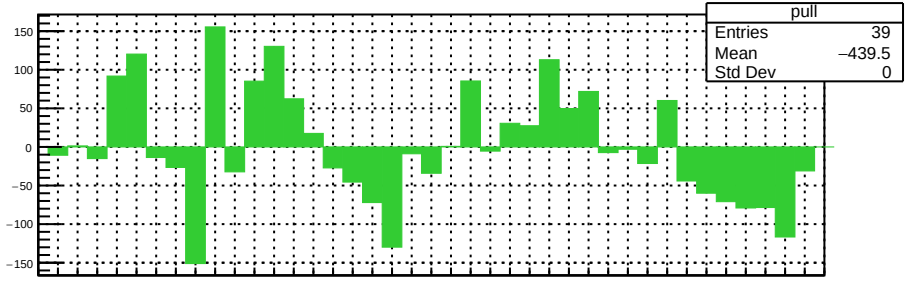

pull1D
Entries 39
Mean −2.691
Std Dev 4.018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

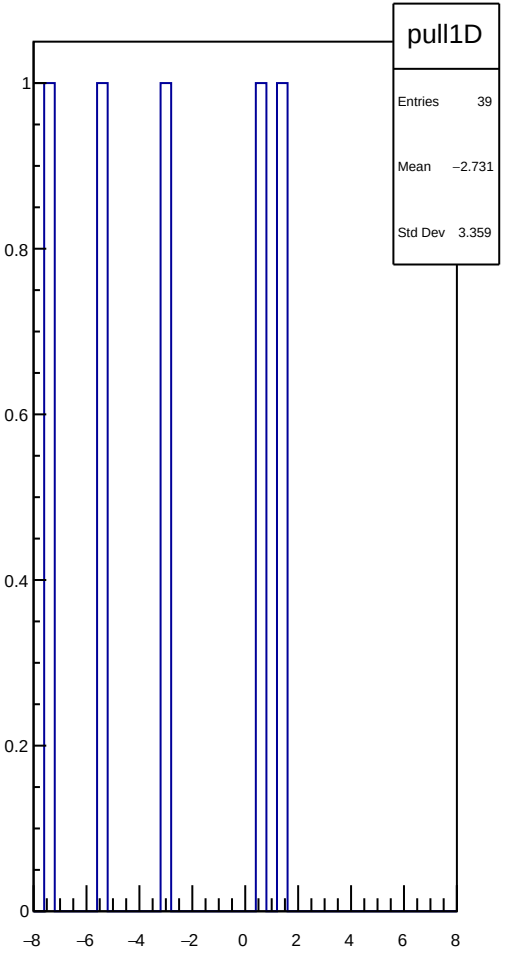

yield_bpm4eY_rms vs run
χ² / ndf 9.367e+04 / 38
p0 0.009822 ± 1.205e−05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

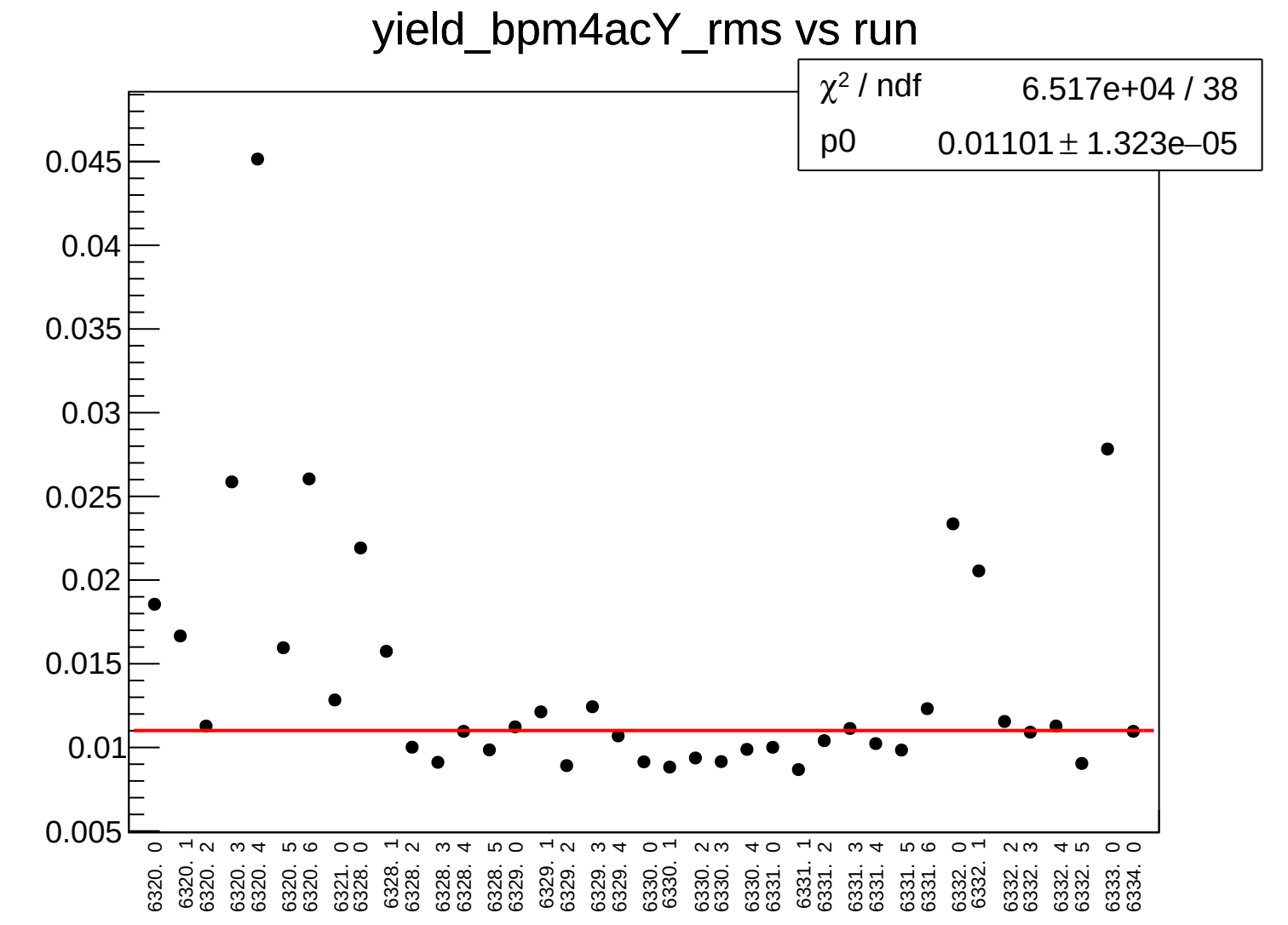

yield_bpm4acX_mean vs run
χ² / ndf 1.639e+05 / 38
p0 −0.743 ± 3.714e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −893.1
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 39
Mean 2.146
Std Dev 3.091
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

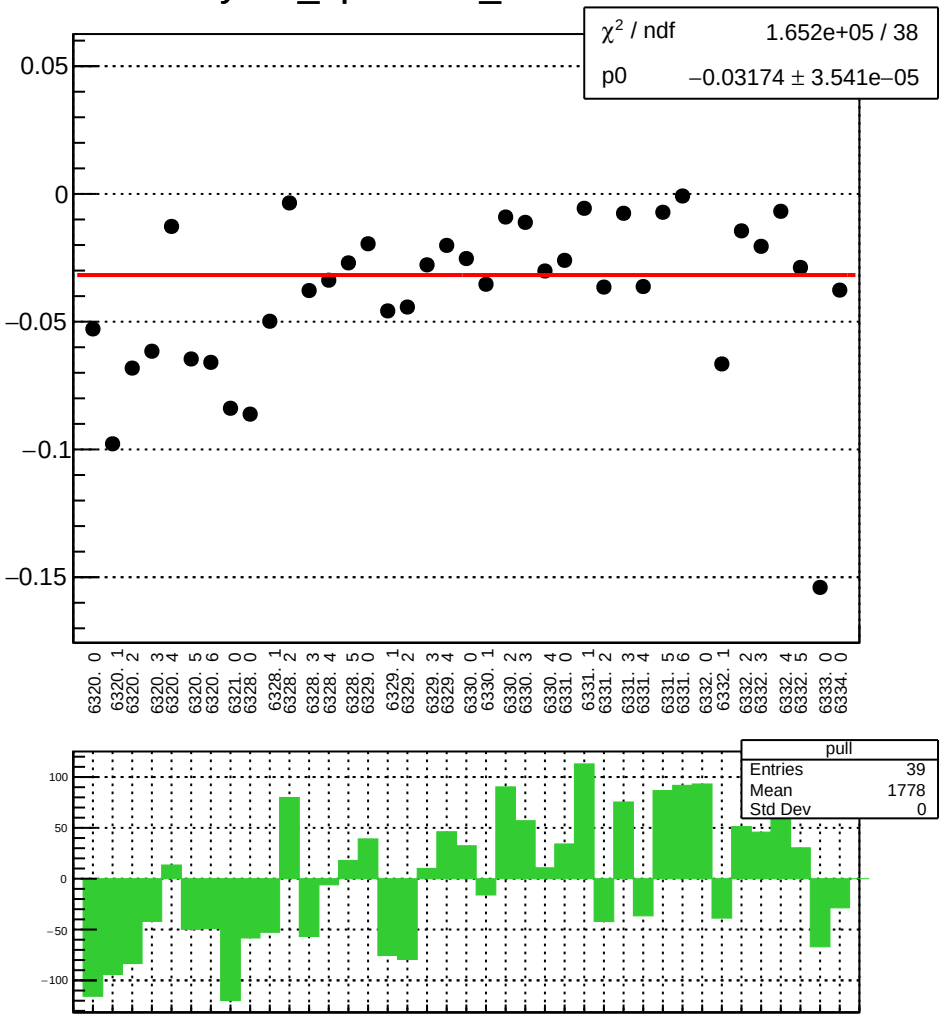

yield_bpm4acX_rms vs run
χ² / ndf 2.077e+05 / 38
p0 0.01948 ± 2.626e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

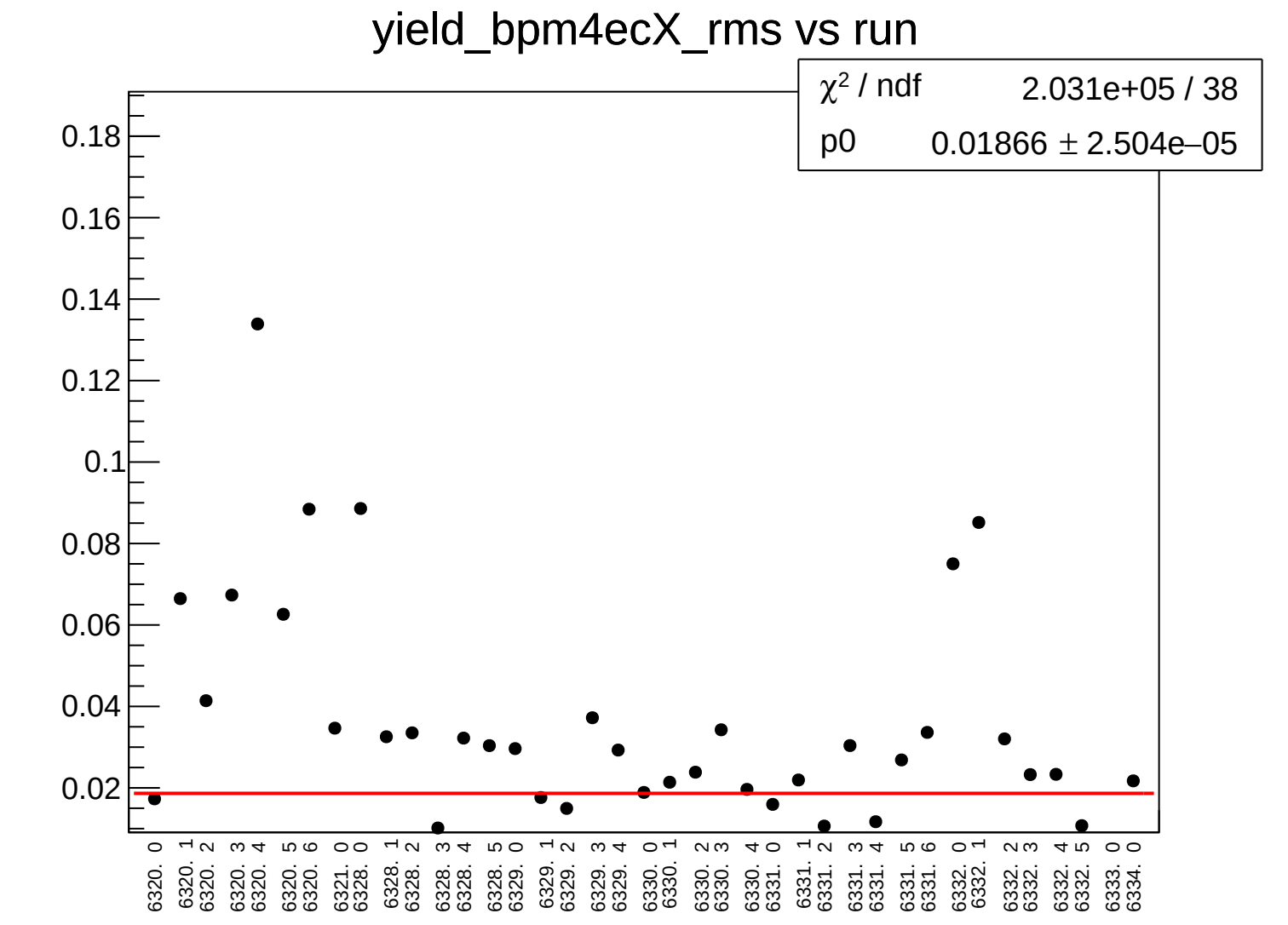

yield_bpm4acY_mean vs run
χ² / ndf 1.978e+05 / 38
p0 0.808 ± 1.87e−05
0.86
0.84
0.82
0.8
0.78
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

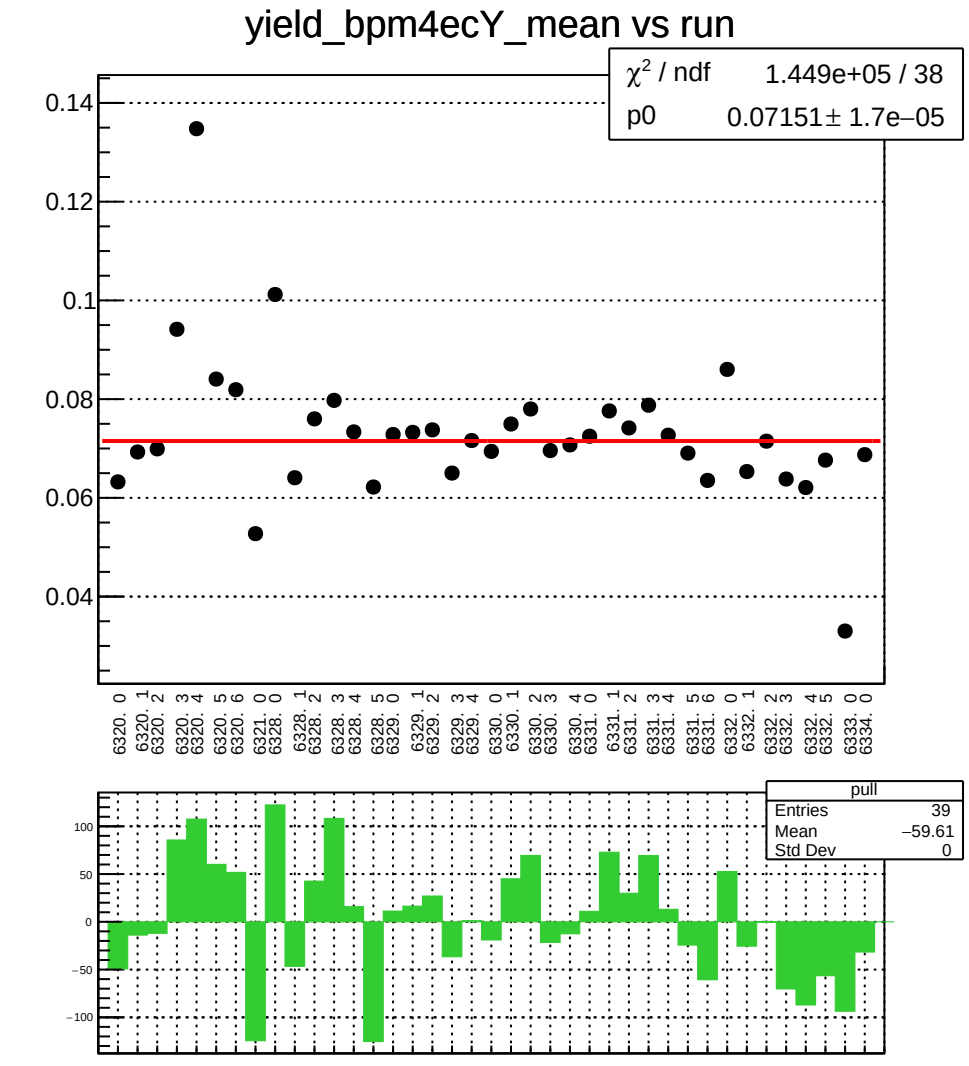

pull
Entries 39
Mean −439.5
Std Dev 0
150
100
50
0
−50
−100
−150

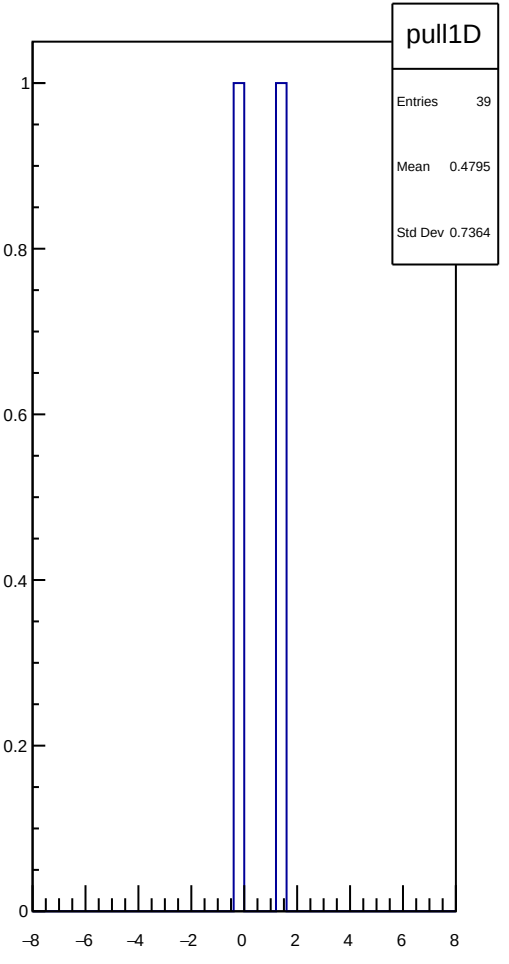

pull1D
Entries 39
Mean −2.731
Std Dev 3.359
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

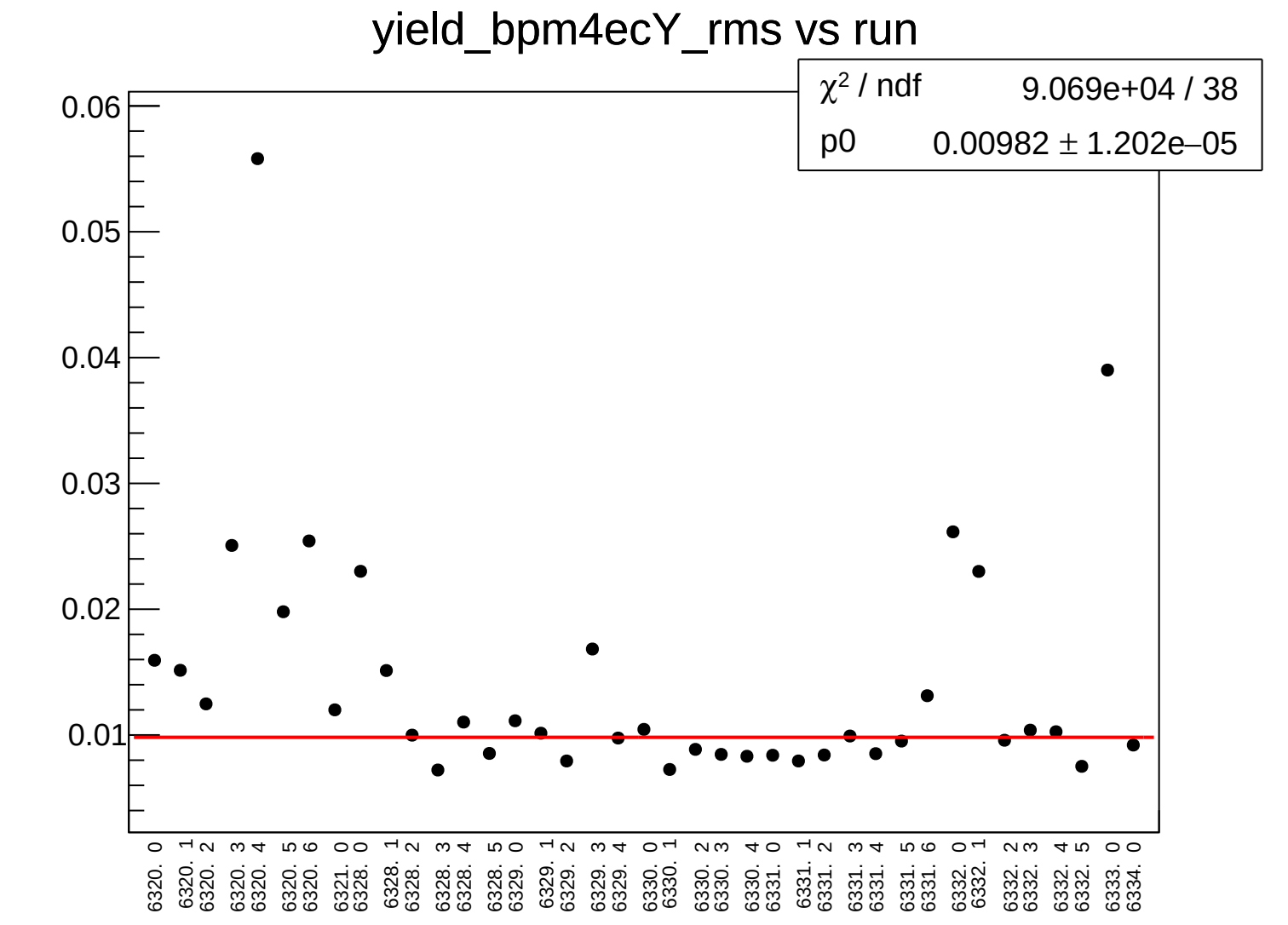

yield_bpm4acY_rms vs run
χ² / ndf 6.517e+04 / 38
p0 0.01101 ± 1.323e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

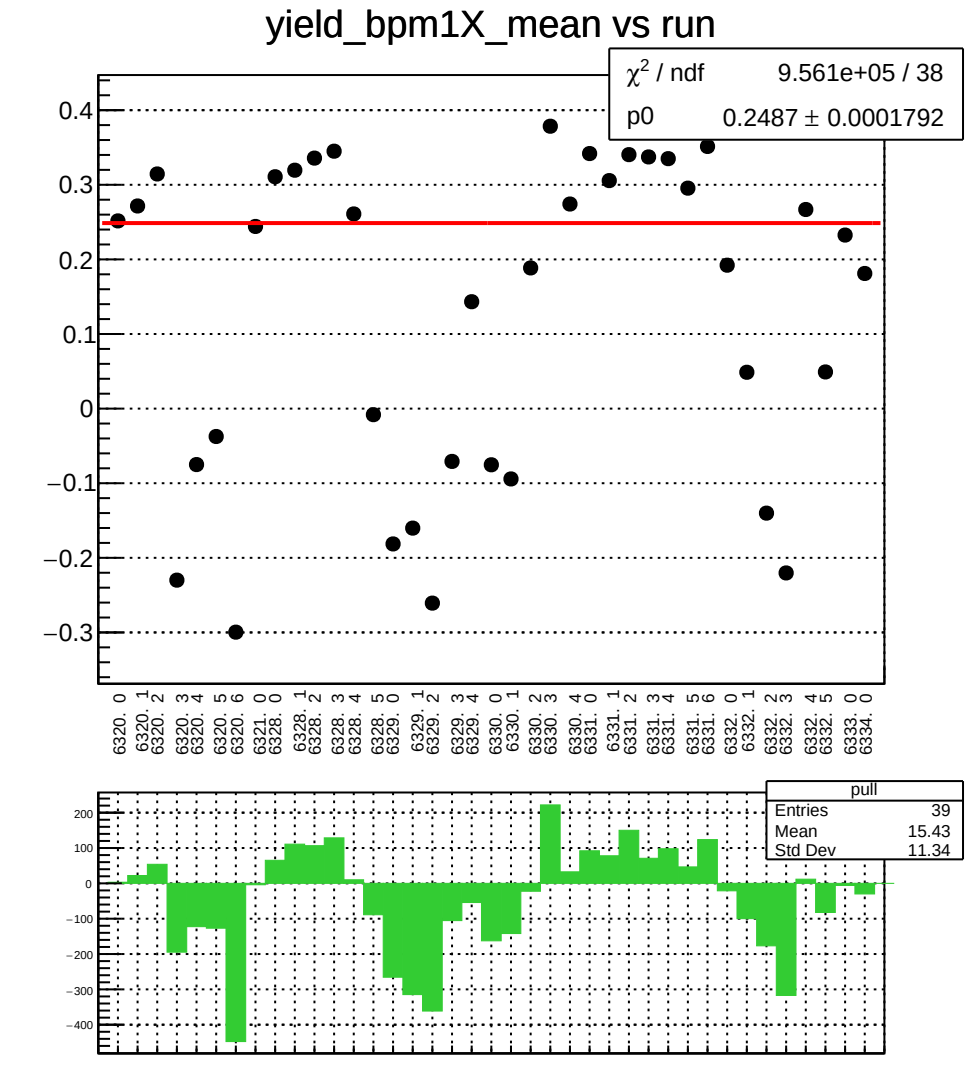

yield_bpm4ecX_mean vs run
χ² / ndf 1.652e+05 / 38
p0 −0.03174 ± 3.541e−05
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1778
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 39
Mean −5.955
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

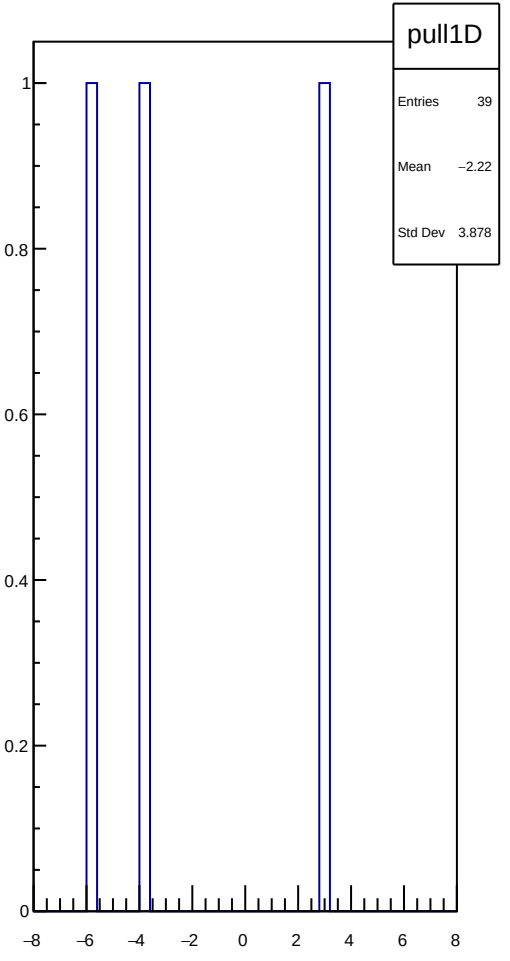

yield_bpm4ecX_rms vs run
χ² / ndf 2.031e+05 / 38
p0 0.01866 ± 2.504e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

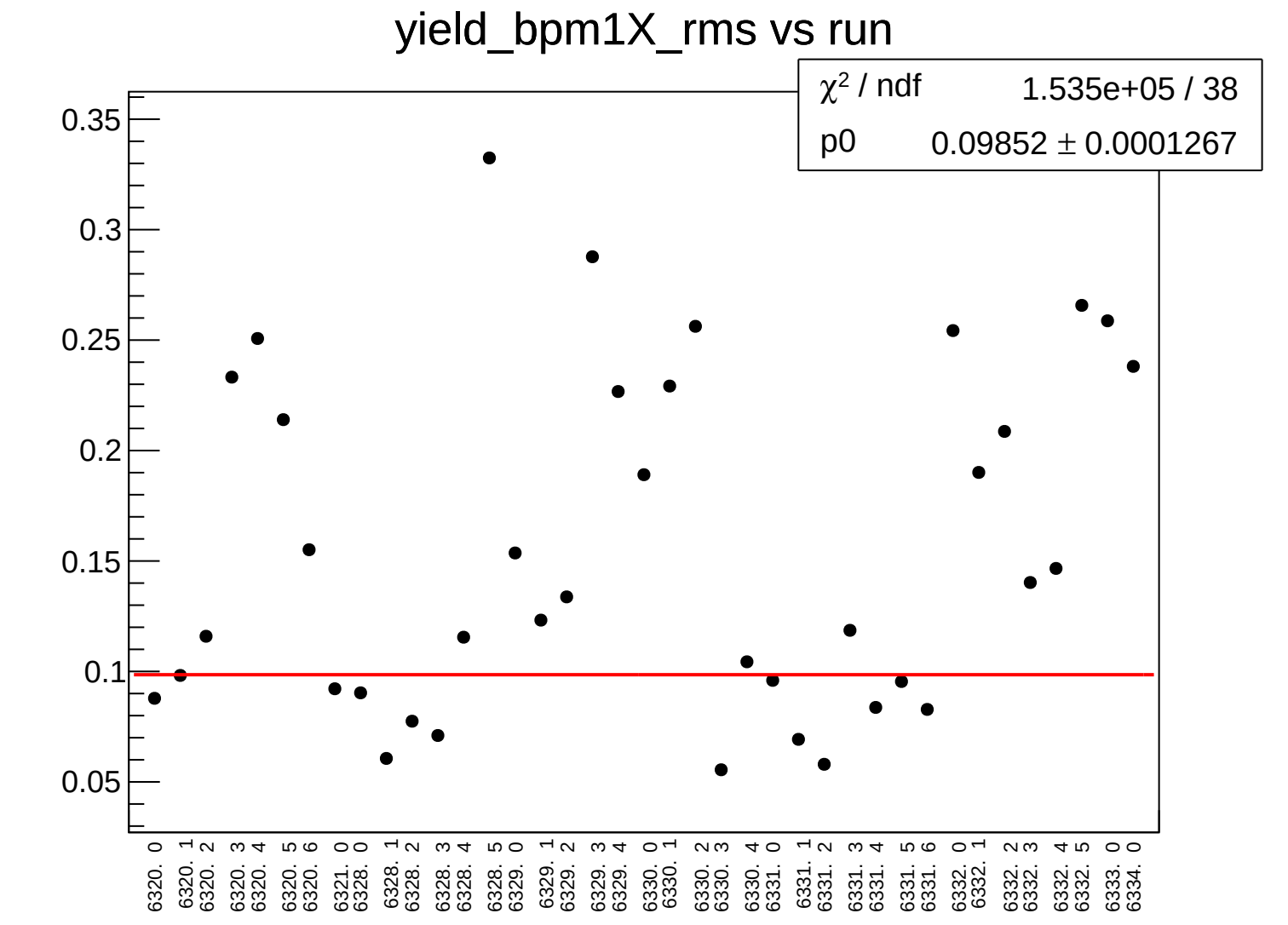

yield_bpm4ecY_mean vs run
χ² / ndf 1.449e+05 / 38
p0 0.07151 ± 1.7e−05
0.14
0.12
0.1
0.08
0.06
0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −59.61
Std Dev 0
100
50
0
−50
−100

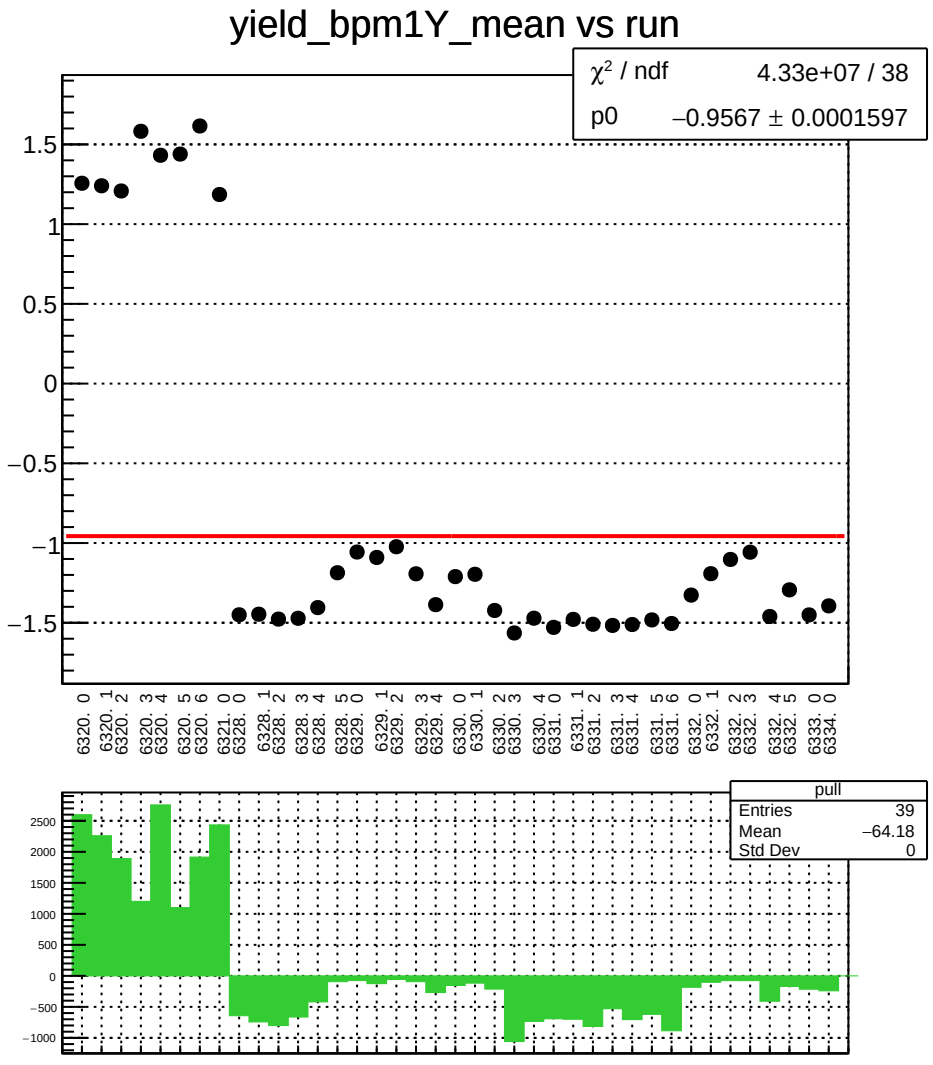

pull1D
Entries 39
Mean 0.4795
Std Dev 0.7364
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

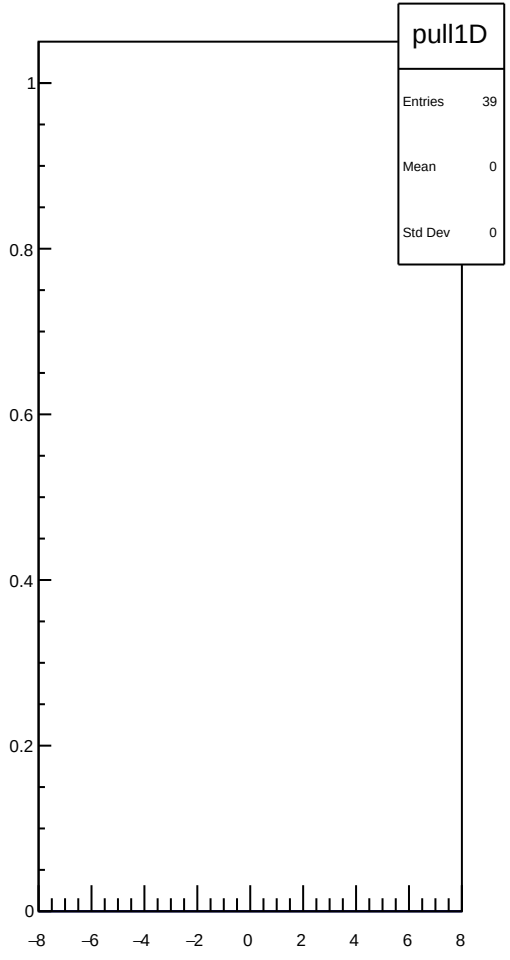

yield_bpm4ecY_rms vs run
χ² / ndf 9.069e+04 / 38
p0 0.00982 ± 1.202e−05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

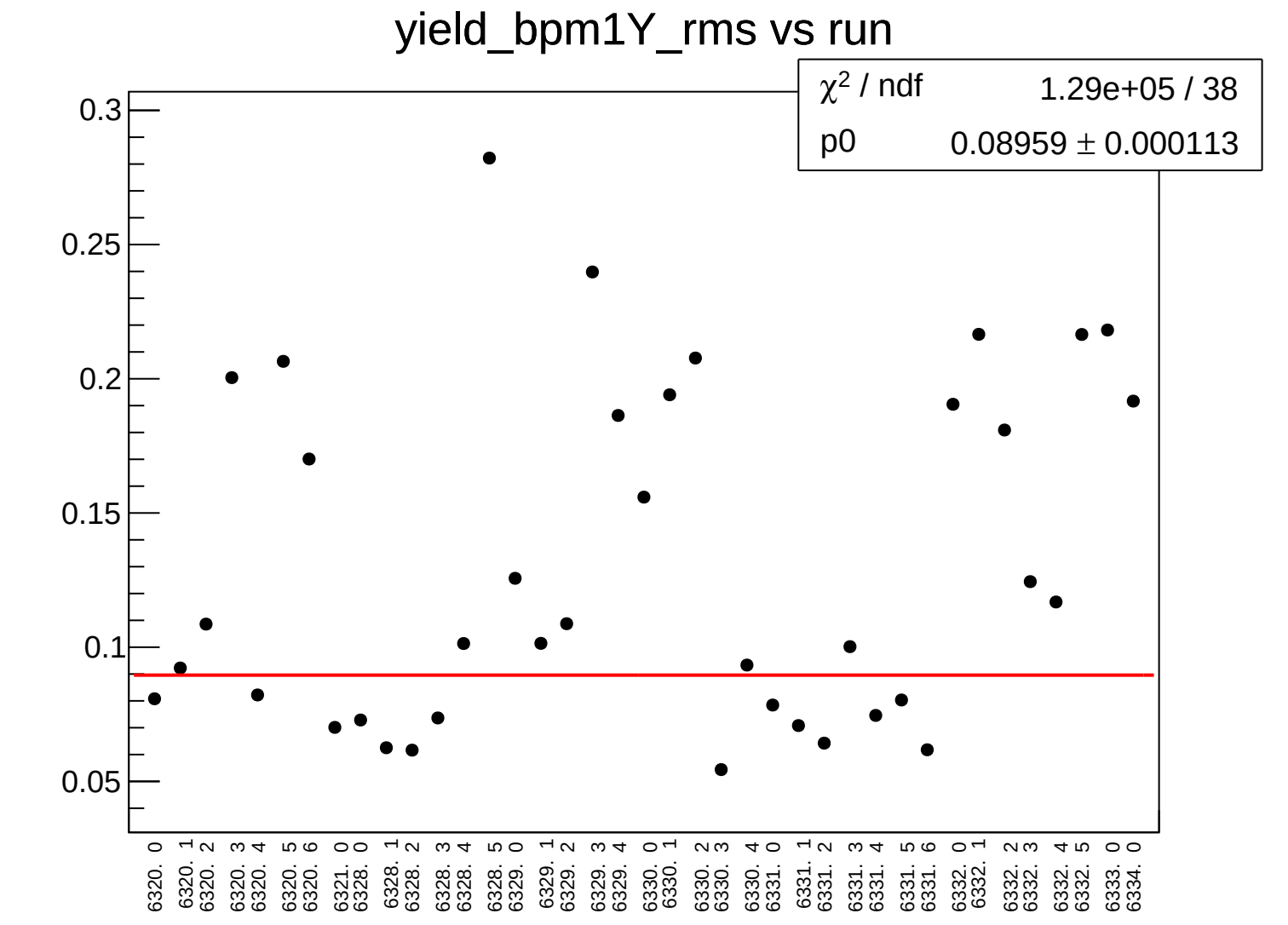

yield_bpm1X_mean vs run
χ² / ndf 9.561e+05 / 38
p0 0.2487 ± 0.0001792
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.43
Std Dev 11.34
200
100
0
−100
−200
−300
−400

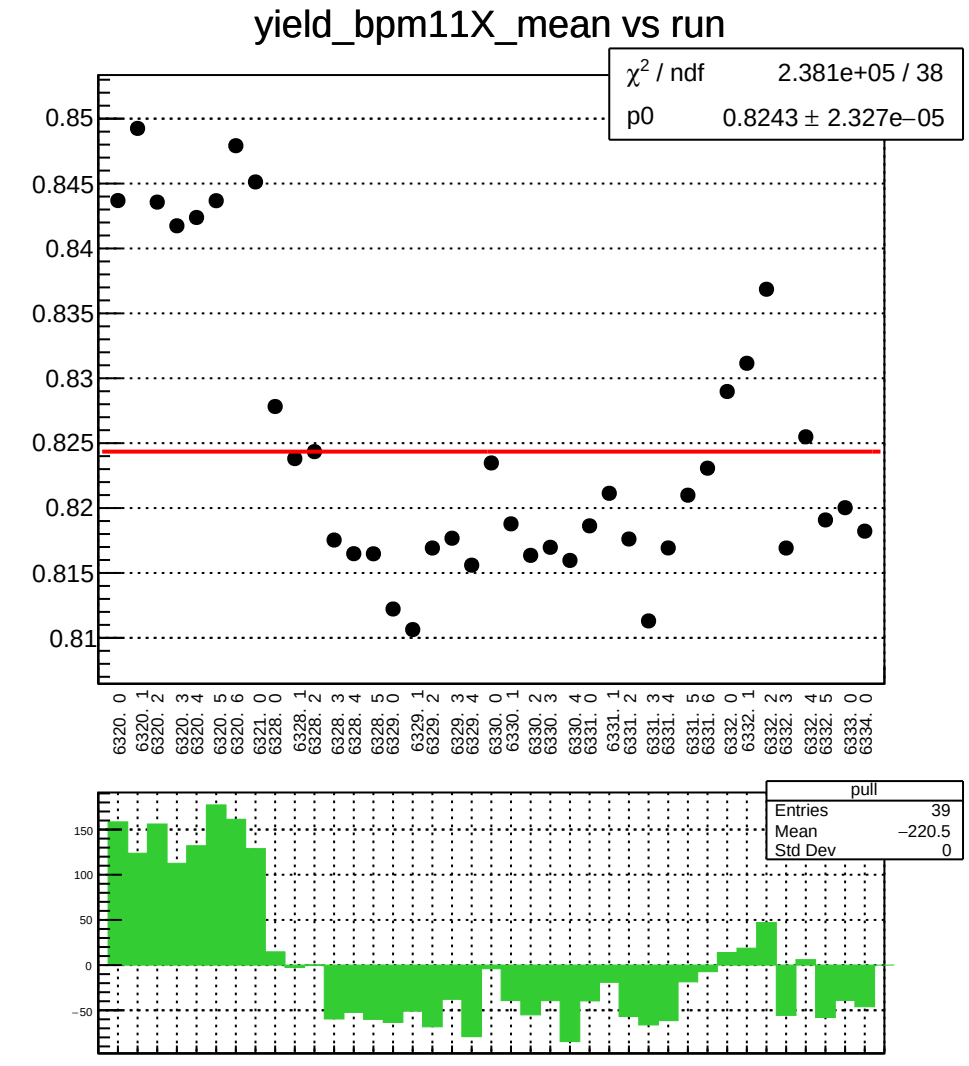

pull1D
Entries 39
Mean −2.22
Std Dev 3.878
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

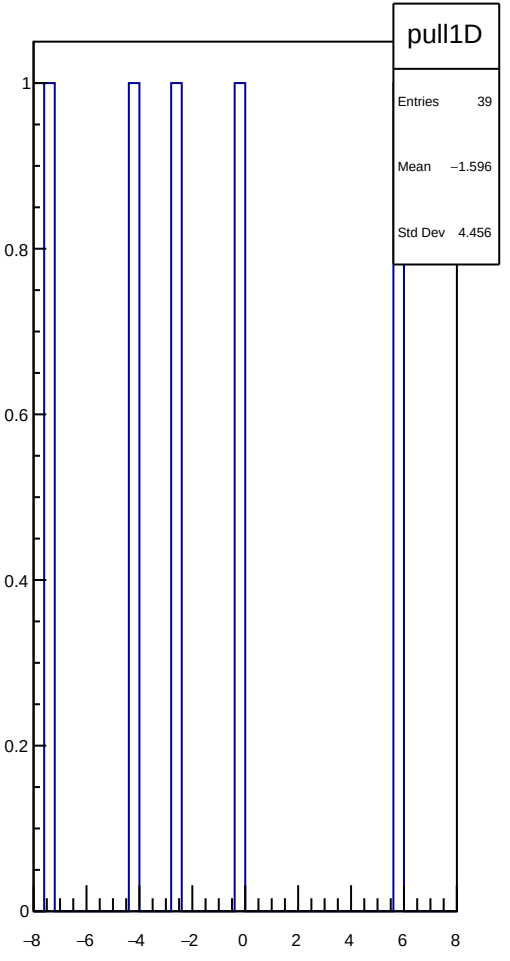

yield_bpm1X_rms vs run
χ² / ndf 1.535e+05 / 38
p0 0.09852 ± 0.0001267
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

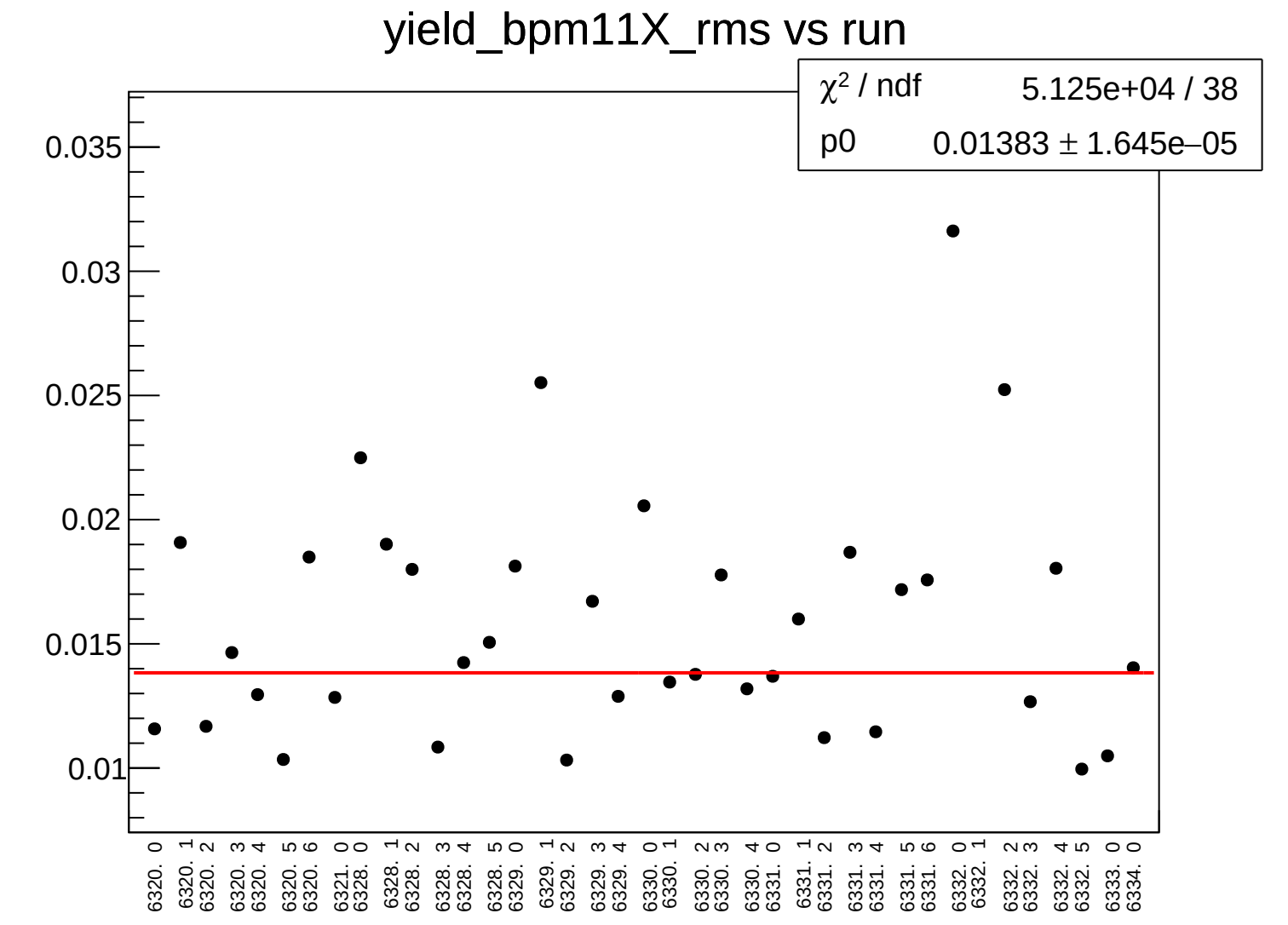

yield_bpm1Y_mean vs run
χ² / ndf 4.33e+07 / 38
p0 −0.9567 ± 0.0001597
pull
Entries 39
Mean −64.18
Std Dev 0

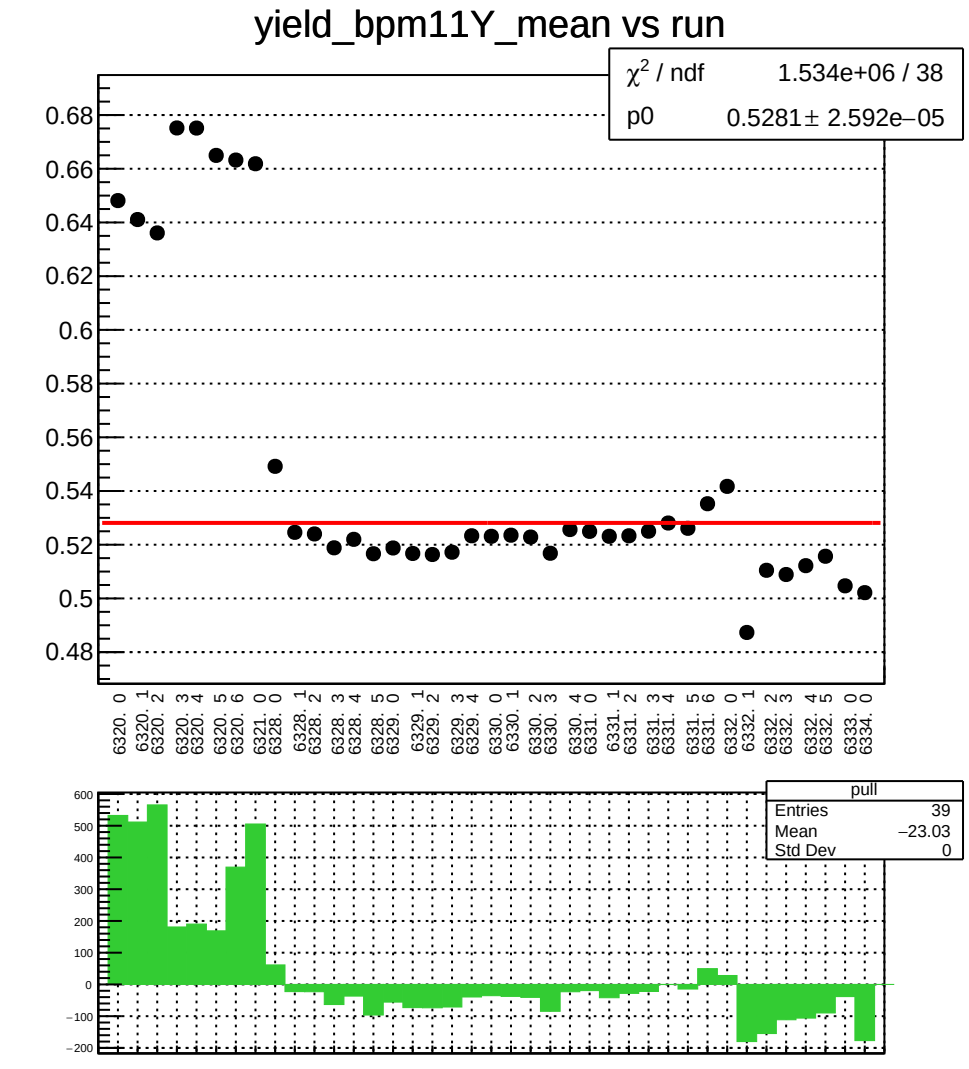

pull1D
Entries 39
Mean 0
Std Dev 0

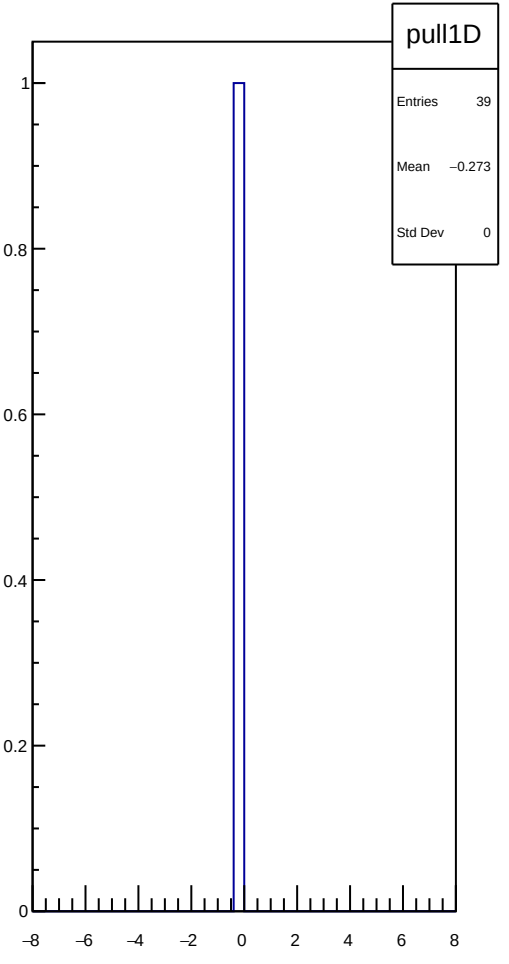

yield_bpm1Y_rms vs run
χ² / ndf 1.29e+05 / 38
p0 0.08959 ± 0.000113
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

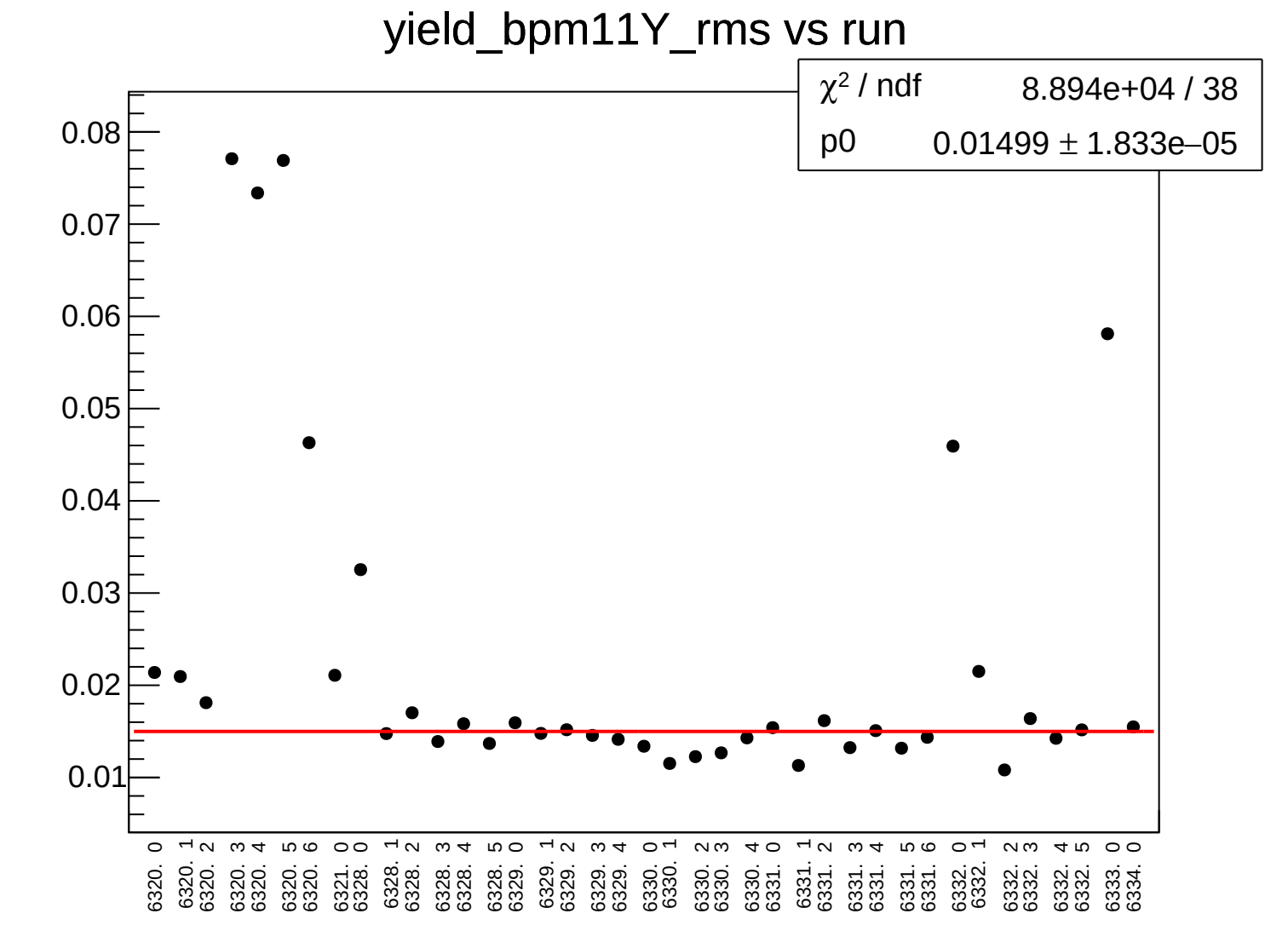

yield_bpm11X_mean vs run
χ² / ndf 2.381e+05 / 38
p0 0.8243 ± 2.327e−05
0.85
0.845
0.84
0.835
0.83
0.825
0.82
0.815
0.81
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −220.5
Std Dev 0
150
100
50
0
−50

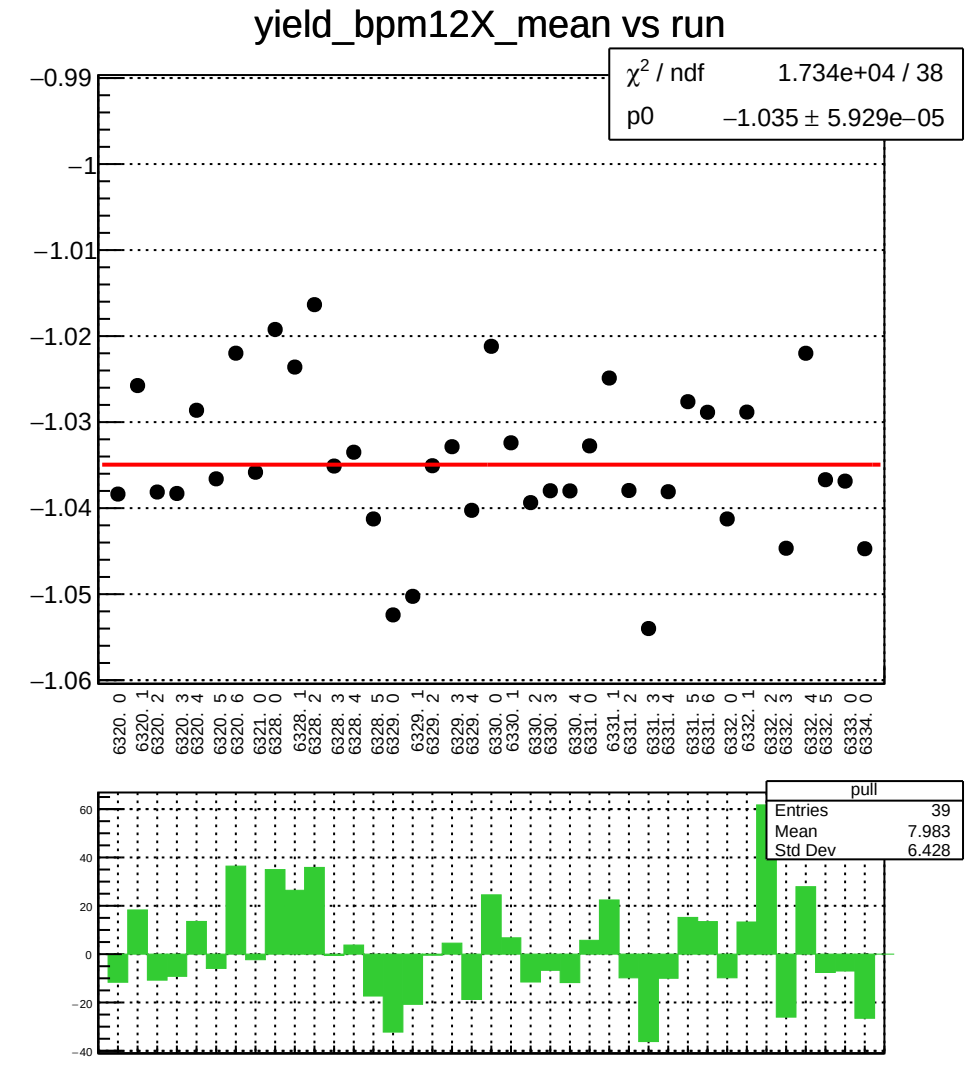

pull1D
Entries 39
Mean −1.596
Std Dev 4.456
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

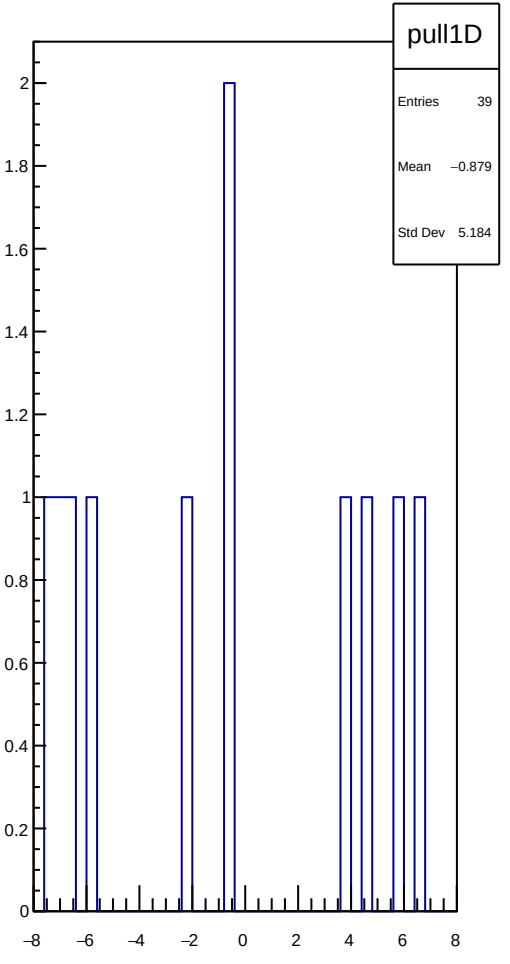

yield_bpm11X_rms vs run
χ² / ndf 5.125e+04 / 38
p0 0.01383 ± 1.645e–05
0.035
0.03
0.025
0.02
0.015
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

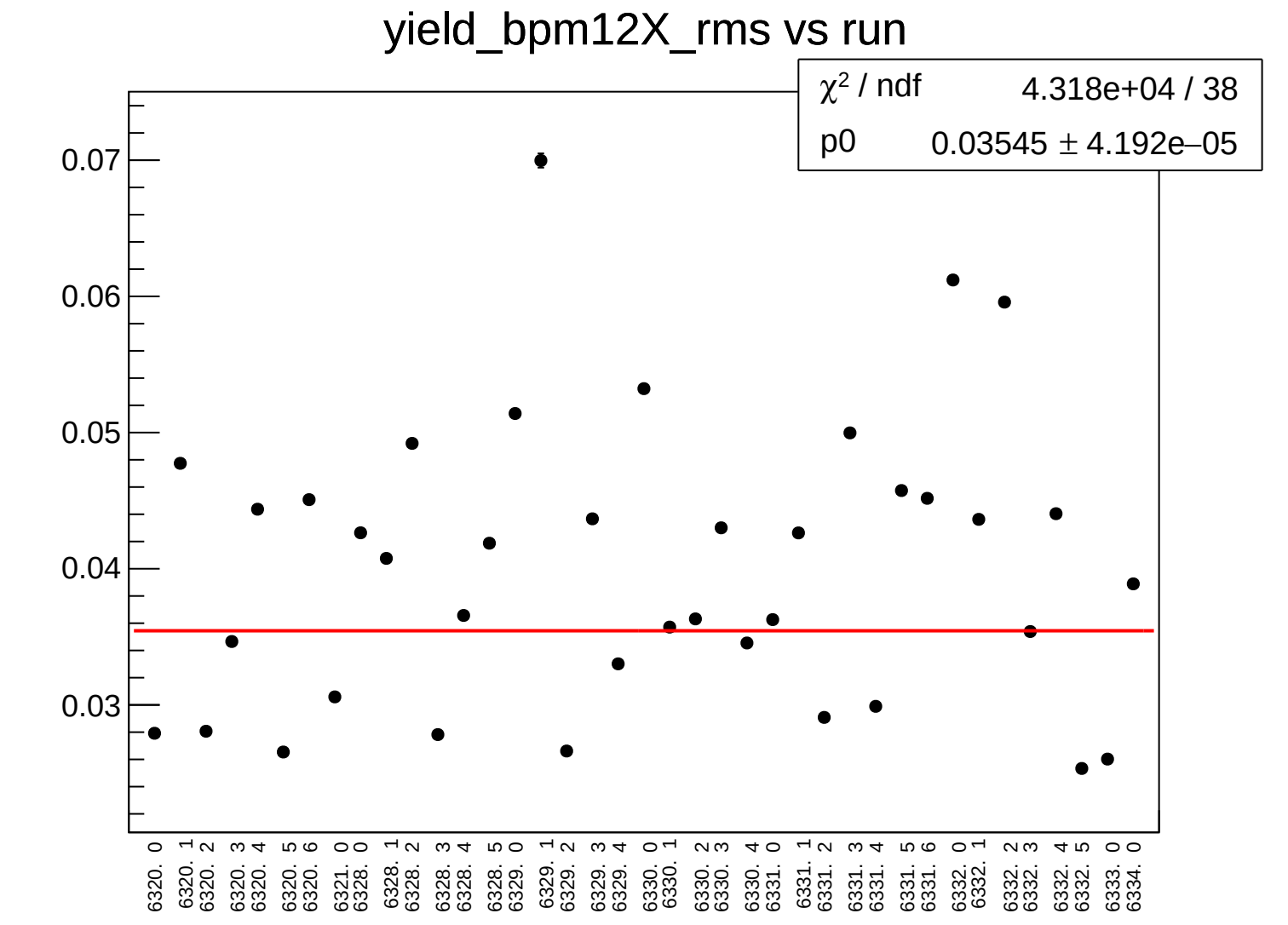

yield_bpm11Y_mean vs run
χ² / ndf 1.534e+06 / 38
p0 0.5281 ± 2.592e−05
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.03
Std Dev 0
600
500
400
300
200
100
0
−100
−200

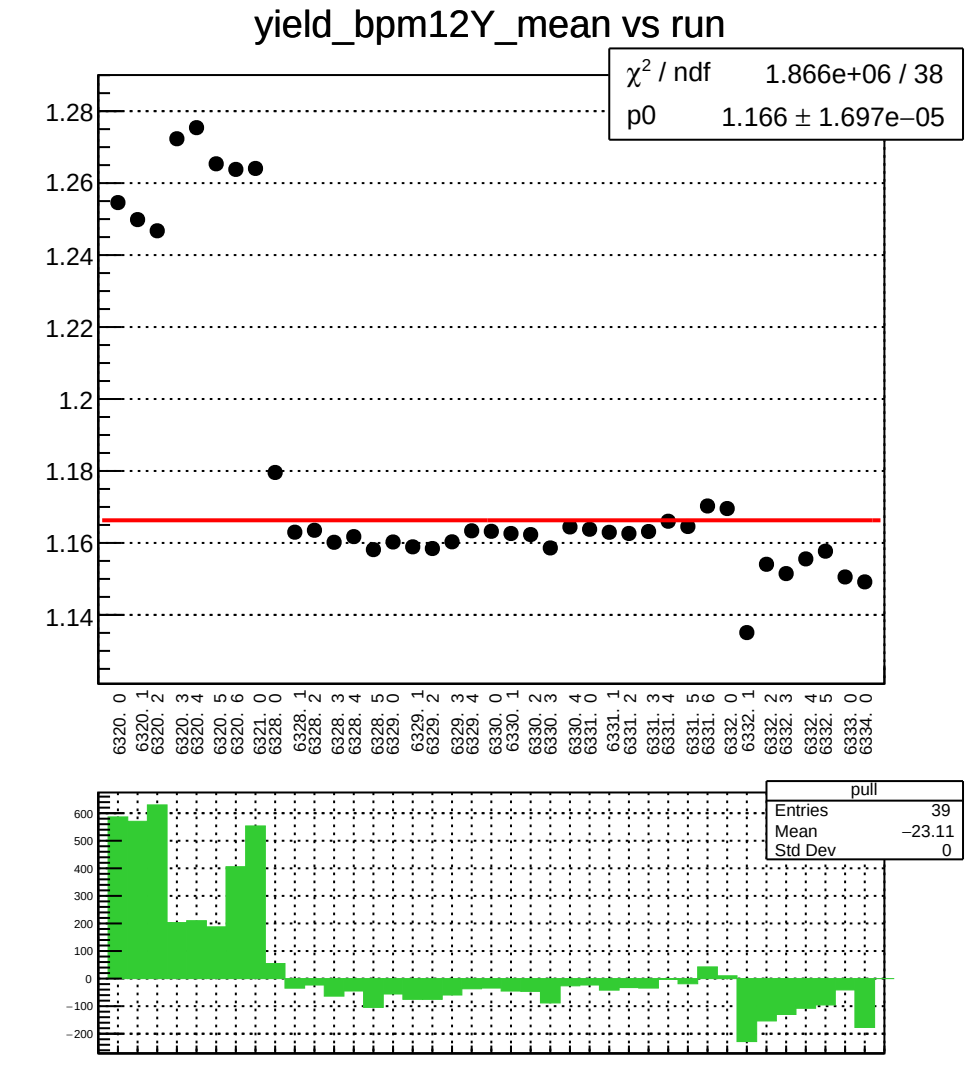

pull1D
Entries 39
Mean −0.273
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

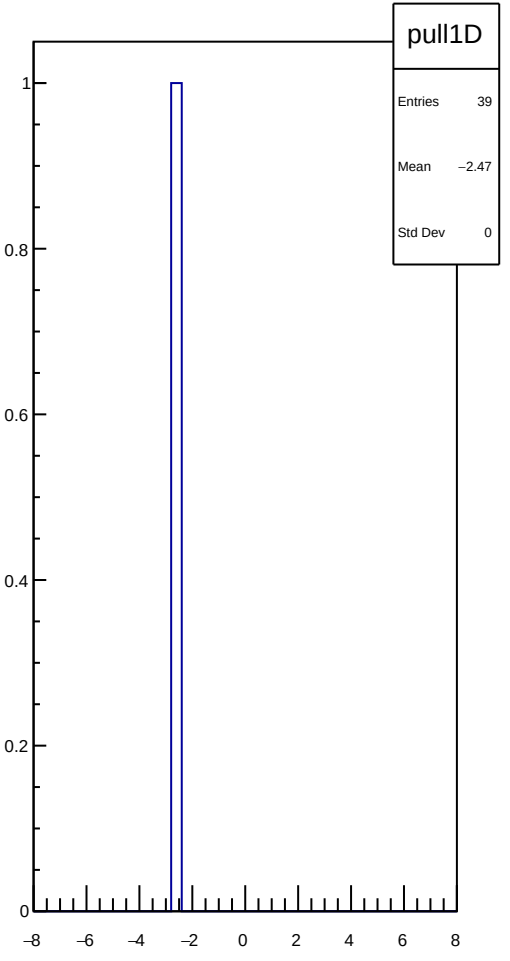

yield_bpm11Y_rms vs run
χ² / ndf 8.894e+04 / 38
p0 0.01499 ± 1.833e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

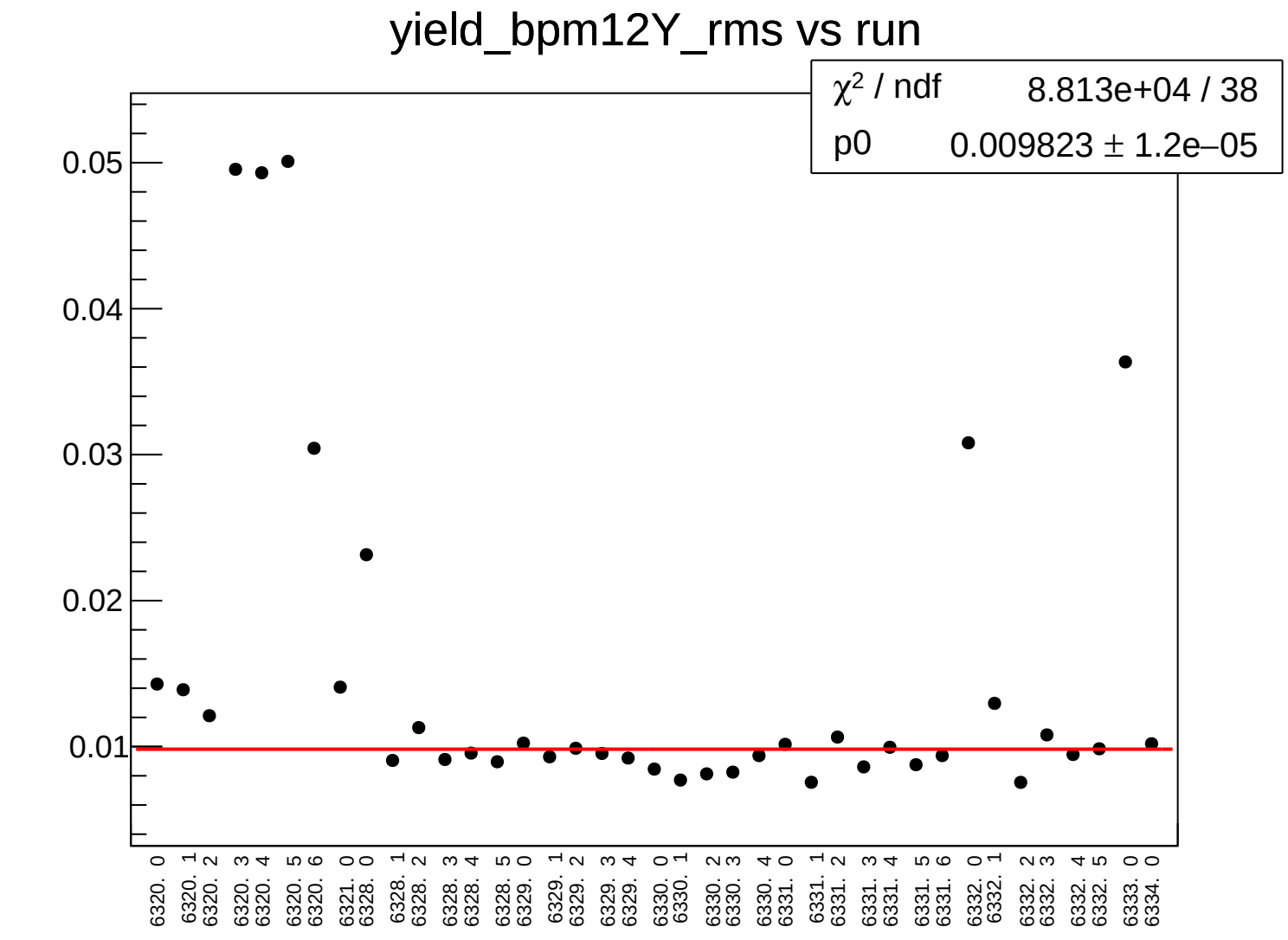

yield_bpm12X_mean vs run
χ² / ndf 1.734e+04 / 38
p0 −1.035 ± 5.929e−05
−0.99
−1
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.983
Std Dev 6.428
60
40
20
0
−20
−40

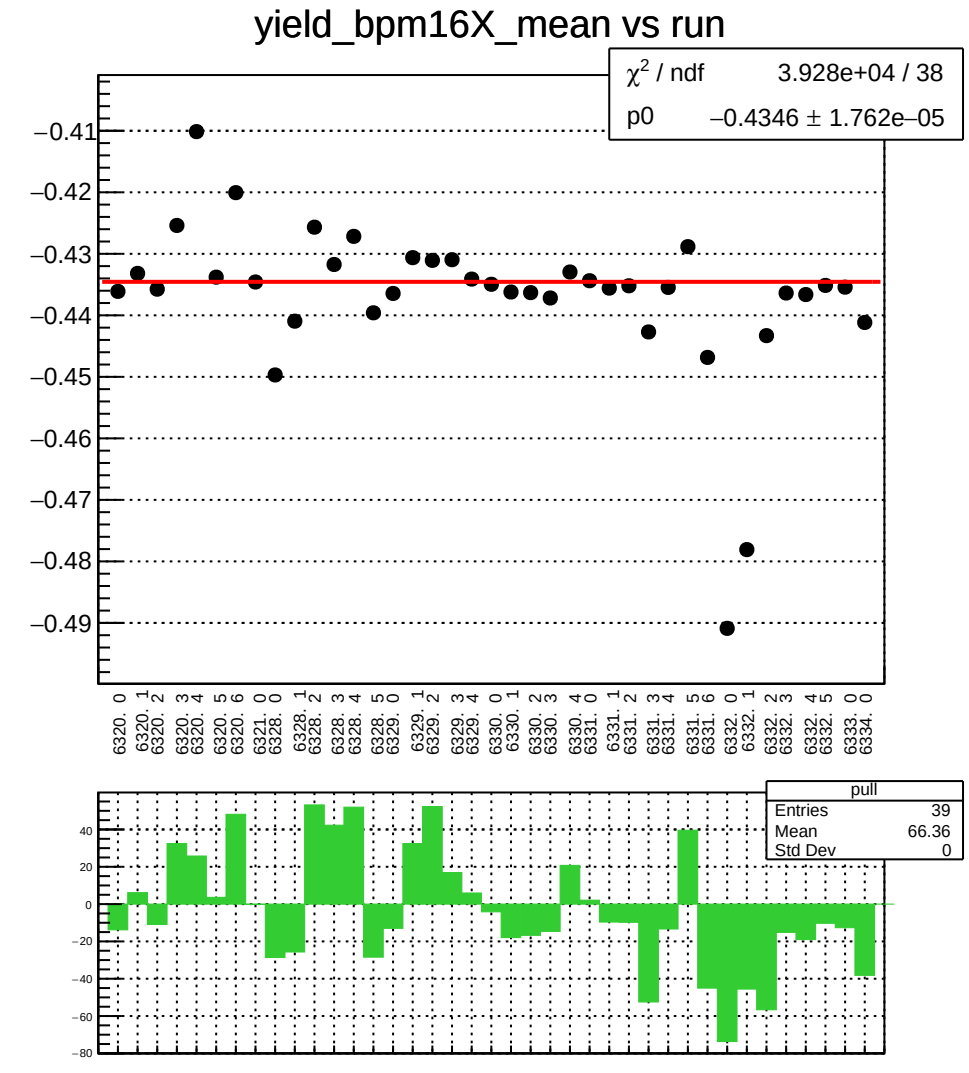

pull1D
Entries 39
Mean −0.879
Std Dev 5.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

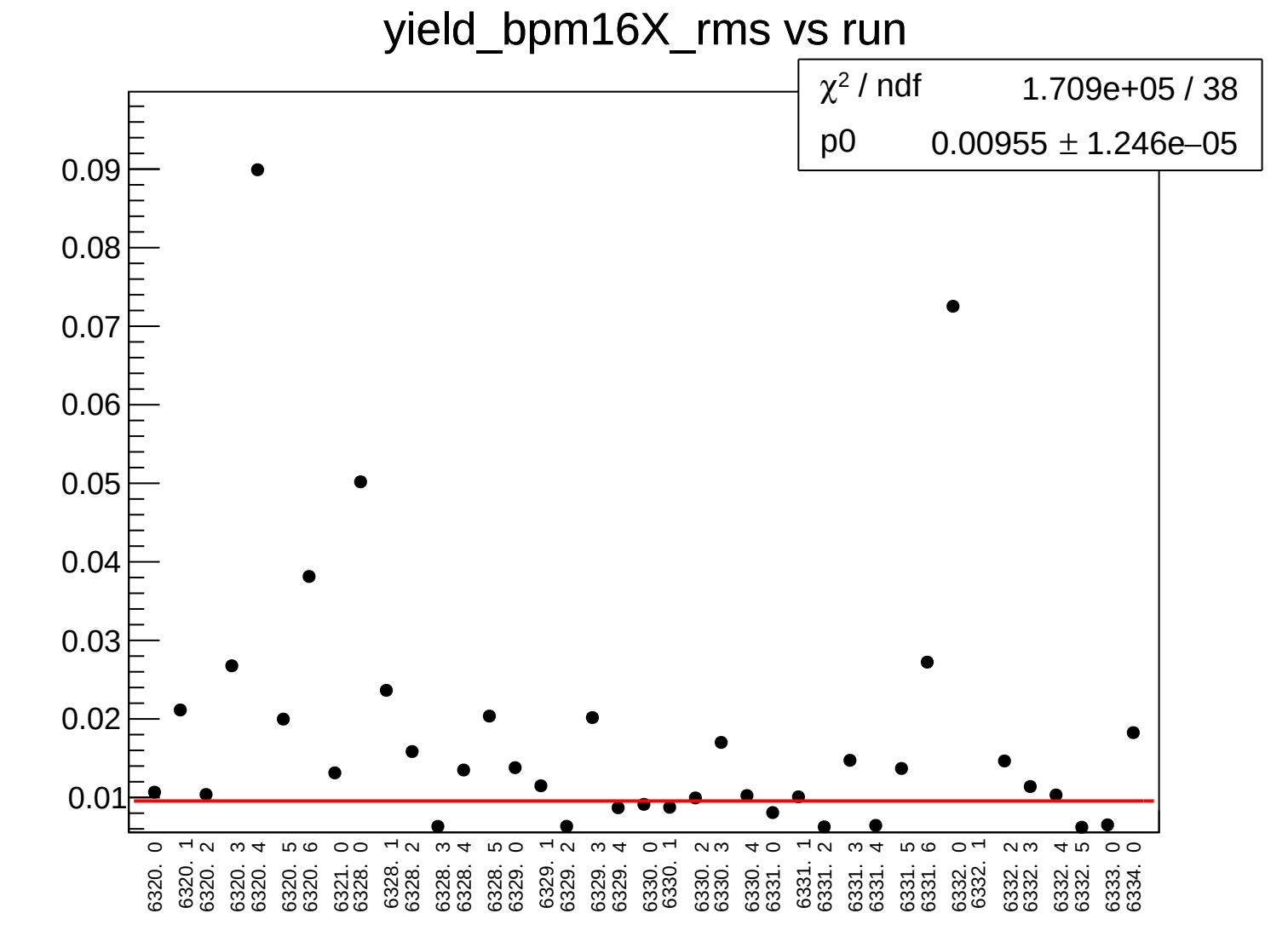

yield_bpm12X_rms vs run
χ² / ndf 4.318e+04 / 38
p0 0.03545 ± 4.192e–05
0.07
0.06
0.05
0.04
0.03
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

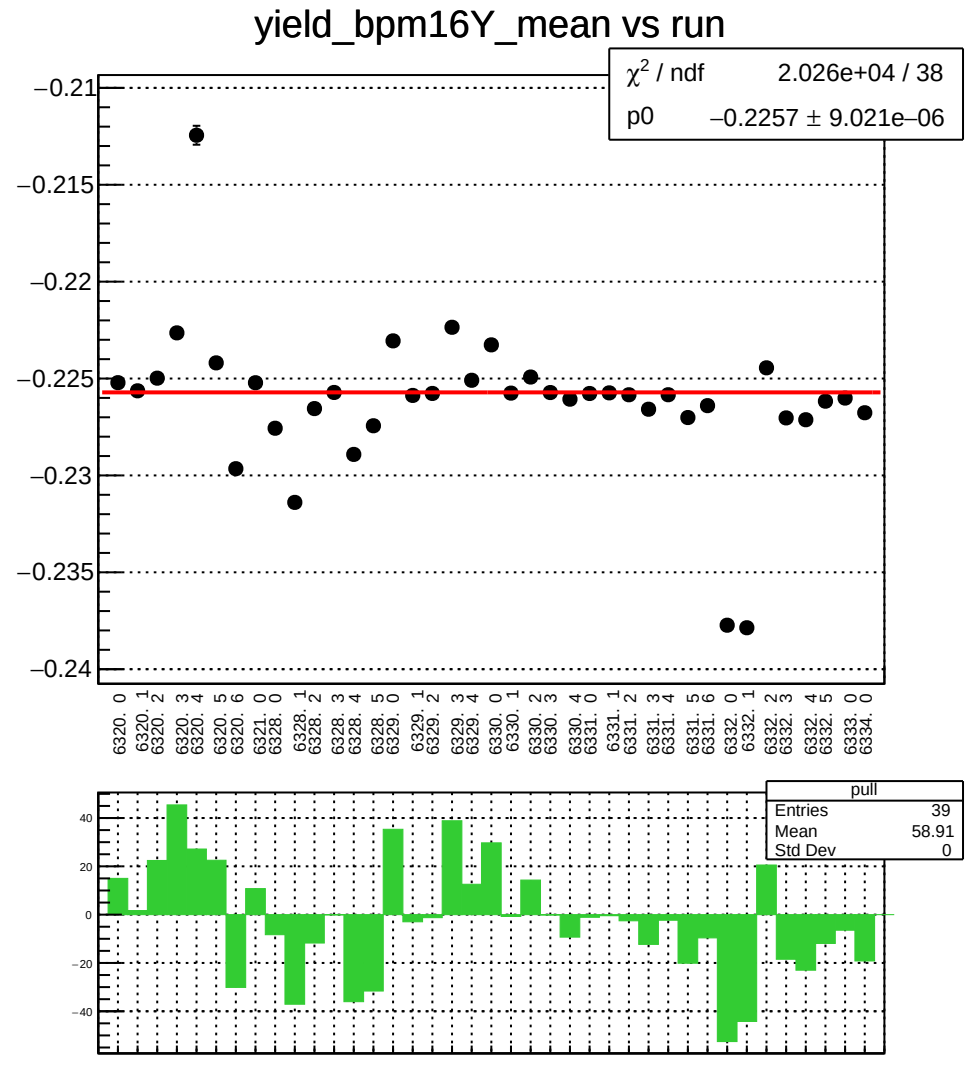

yield_bpm12Y_mean vs run
χ² / ndf 1.866e+06 / 38
p0 1.166 ± 1.697e−05
1.28
1.26
1.24
1.22
1.2
1.18
1.16
1.14
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.11
Std Dev 0
600
500
400
300
200
100
0
−100
−200

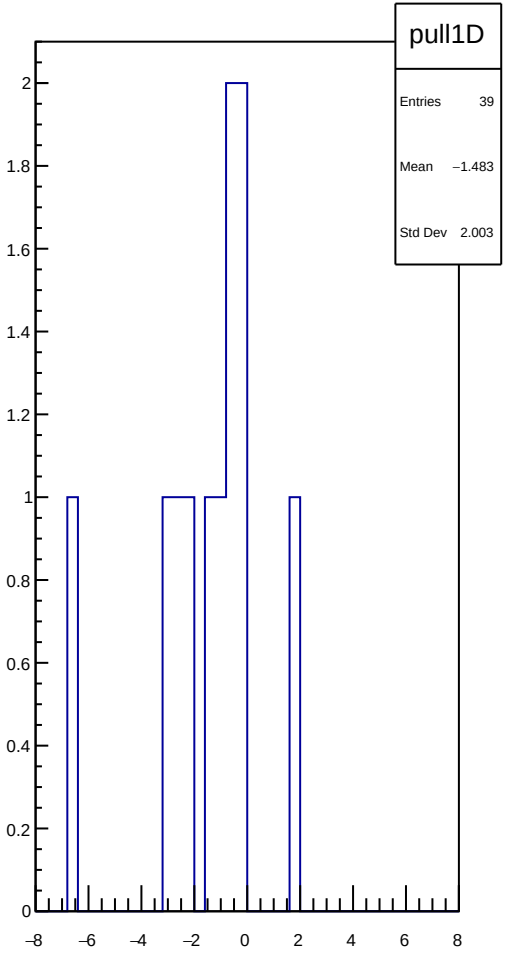

pull1D
Entries 39
Mean −2.47
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

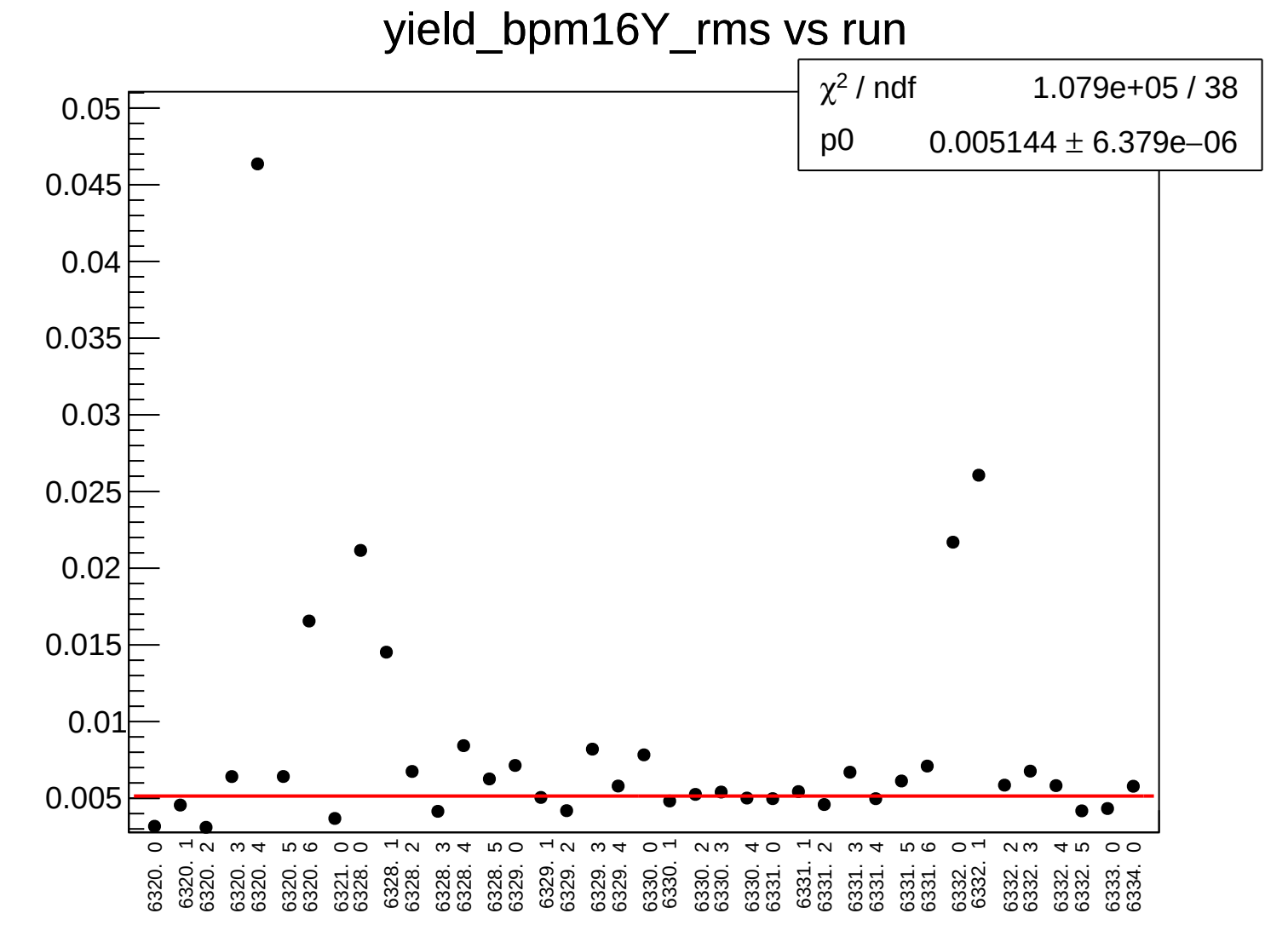

yield_bpm12Y_rms vs run
χ² / ndf 8.813e+04 / 38
p0 0.009823 ± 1.2e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

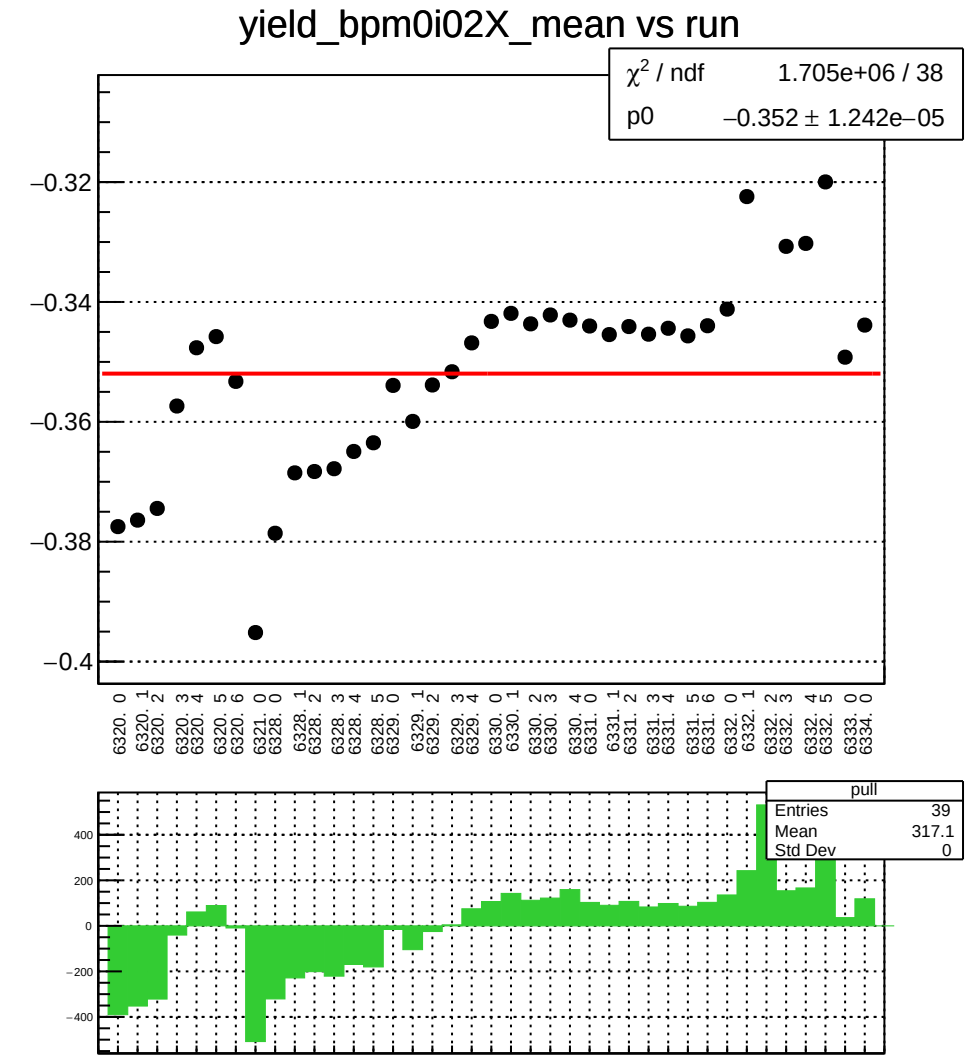

yield_bpm16X_mean vs run
χ² / ndf 3.928e+04 / 38
p0 −0.4346 ± 1.762e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 66.36
Std Dev 0
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean 2.253
Std Dev 3.59
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

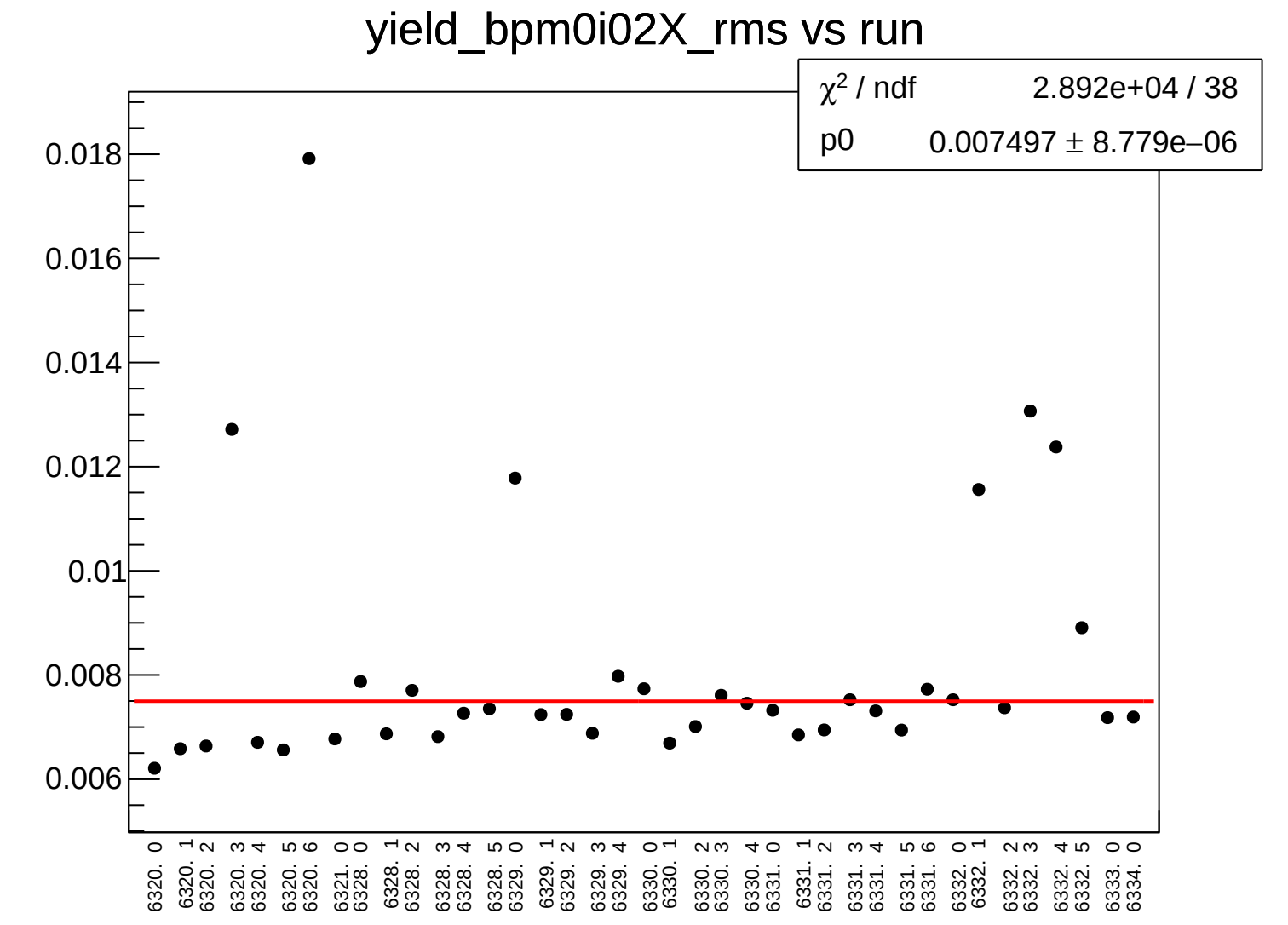

yield_bpm16X_rms vs run
χ² / ndf 1.709e+05 / 38
p0 0.00955 ± 1.246e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

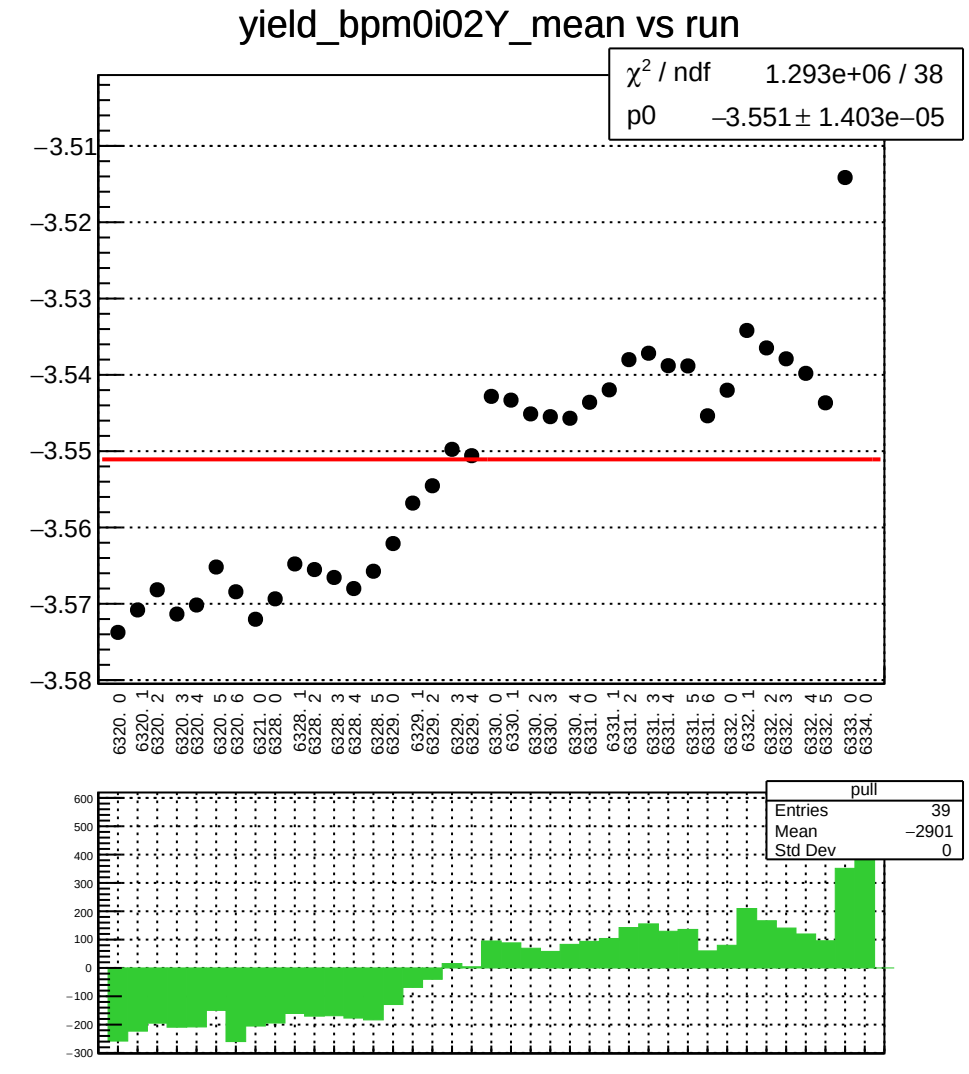

yield_bpm16Y_mean vs run
χ² / ndf 2.026e+04 / 38
p0 −0.2257 ± 9.021e−06
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.91
Std Dev 0
40
20
0
−20
−40

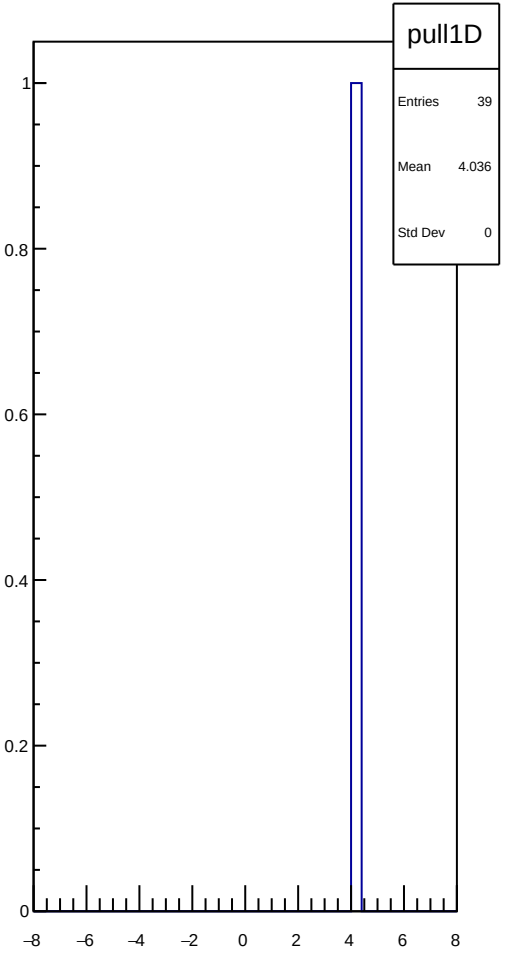

pull1D
Entries 39
Mean −1.483
Std Dev 2.003
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

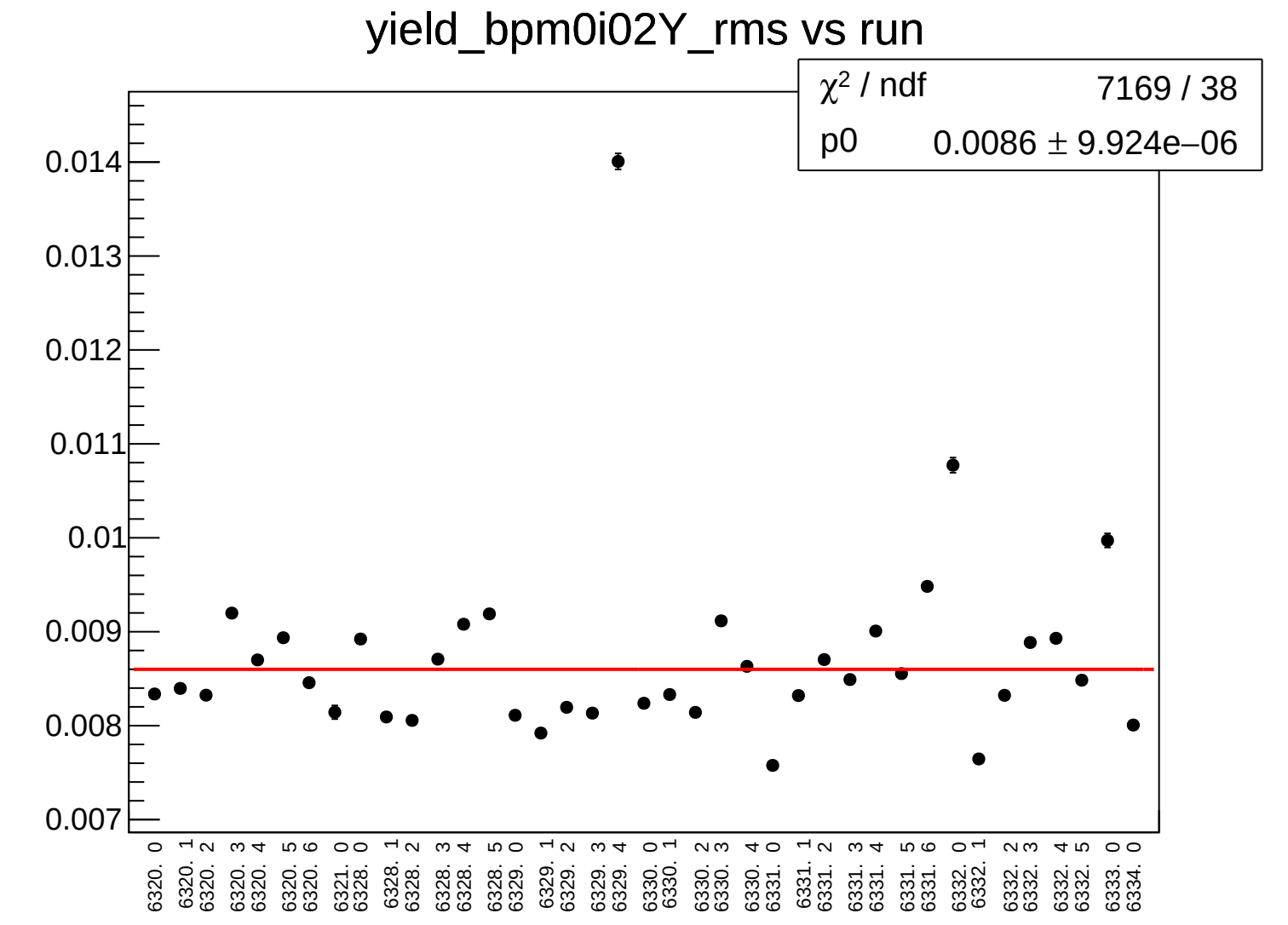

yield_bpm16Y_rms vs run
χ² / ndf 1.079e+05 / 38
p0 0.005144 ± 6.379e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

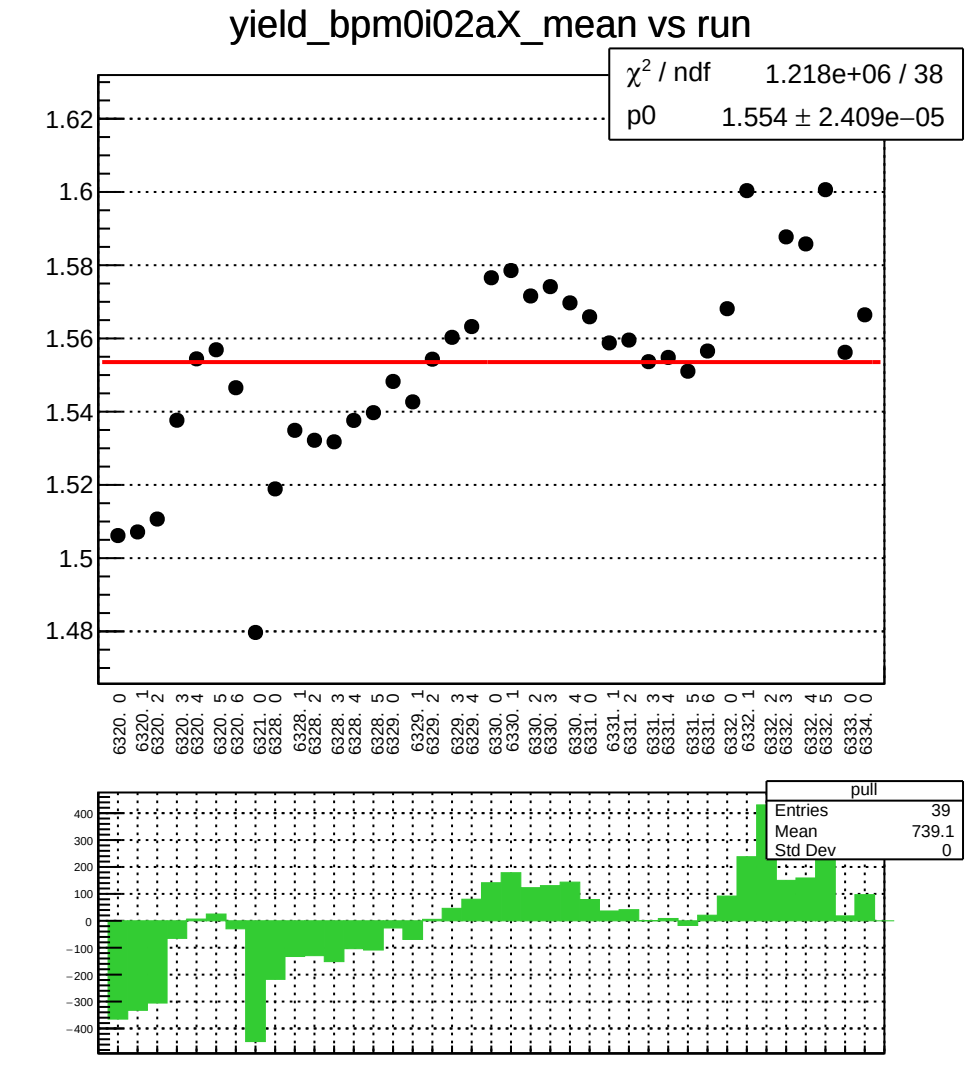

yield_bpm0i02X_mean vs run
χ² / ndf 1.705e+06 / 38
p0 −0.352 ± 1.242e−05
−0.32
−0.34
−0.36
−0.38
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 317.1
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 39
Mean 4.312
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

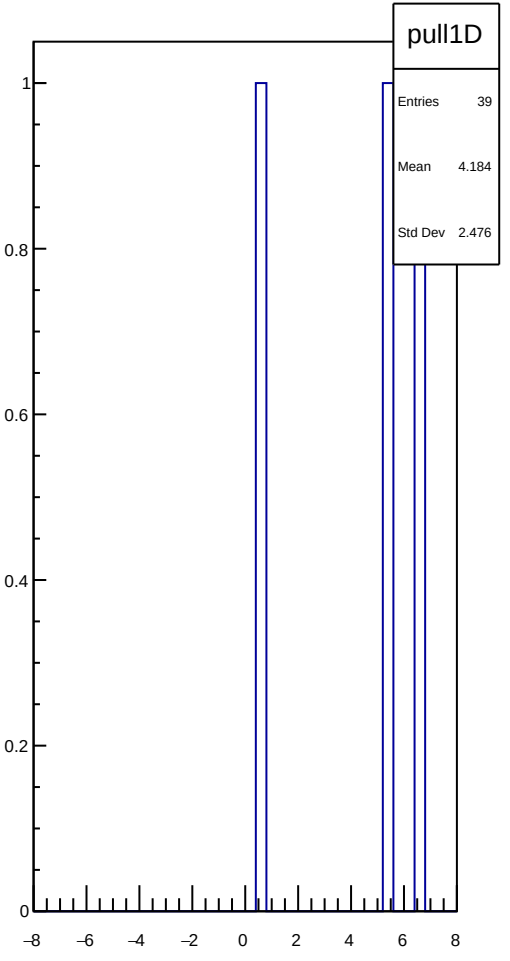

yield_bpm0i02X_rms vs run
χ² / ndf 2.892e+04 / 38
p0 0.007497 ± 8.779e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

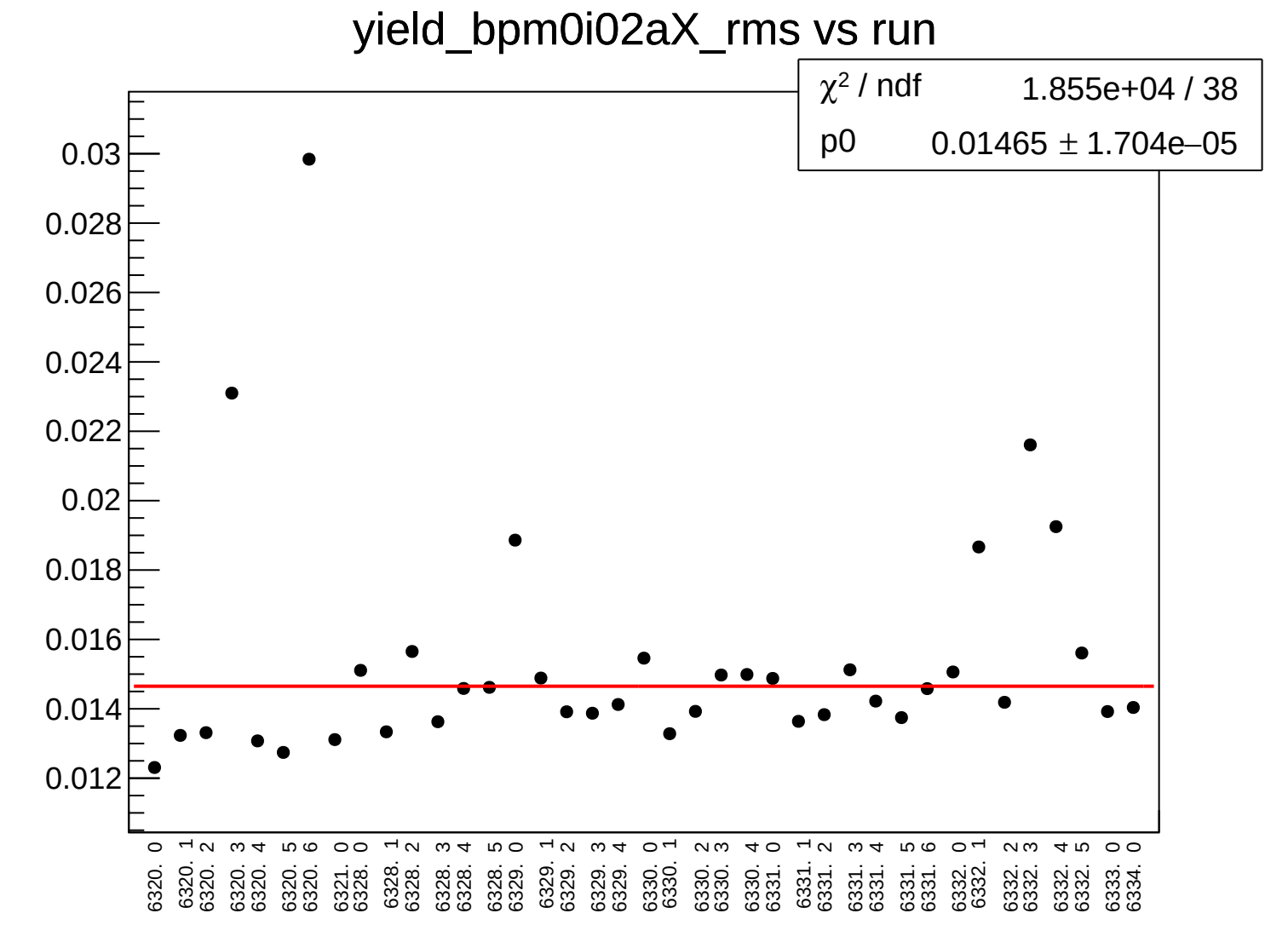

yield_bpm0i02Y_mean vs run
χ² / ndf 1.293e+06 / 38
p0 −3.551 ± 1.403e−05
−3.51
−3.52
−3.53
−3.54
−3.55
−3.56
−3.57
−3.58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2901
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

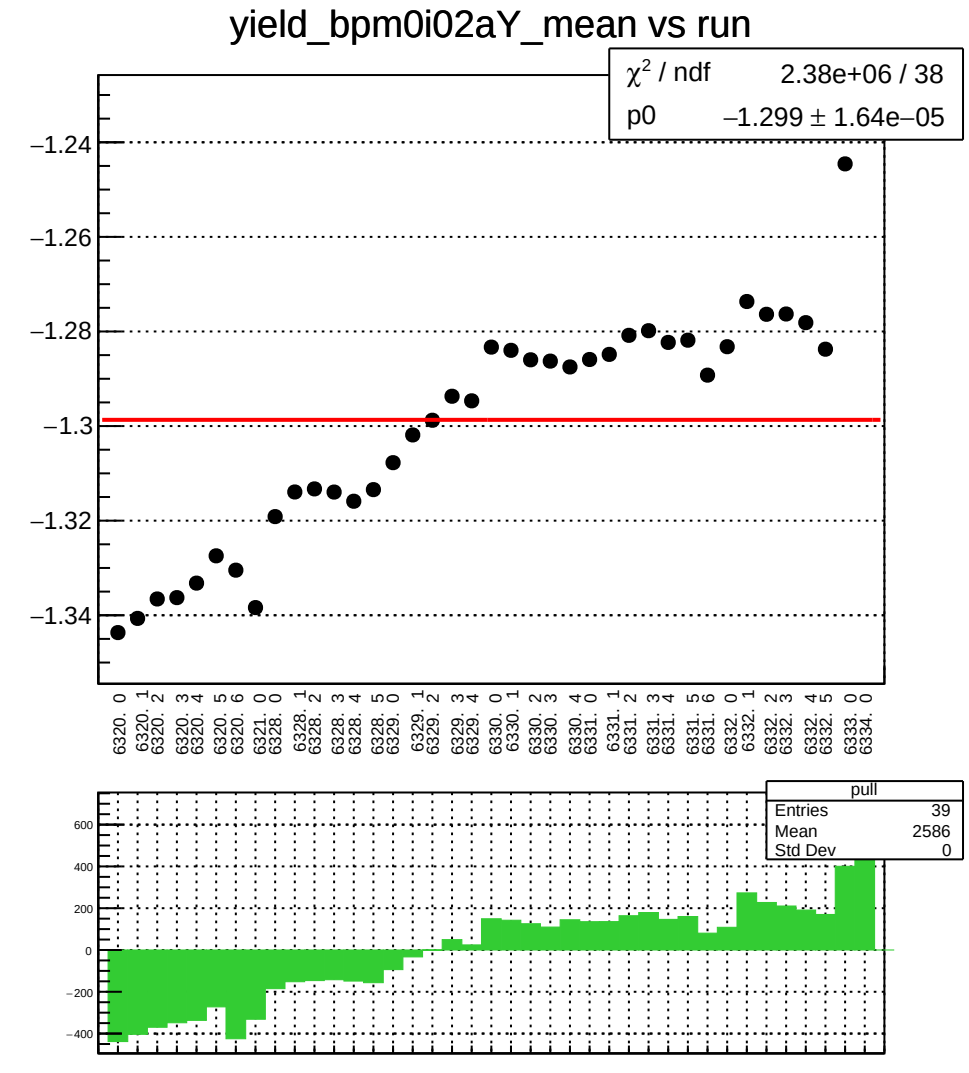

pull1D
Entries 39
Mean 4.036
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

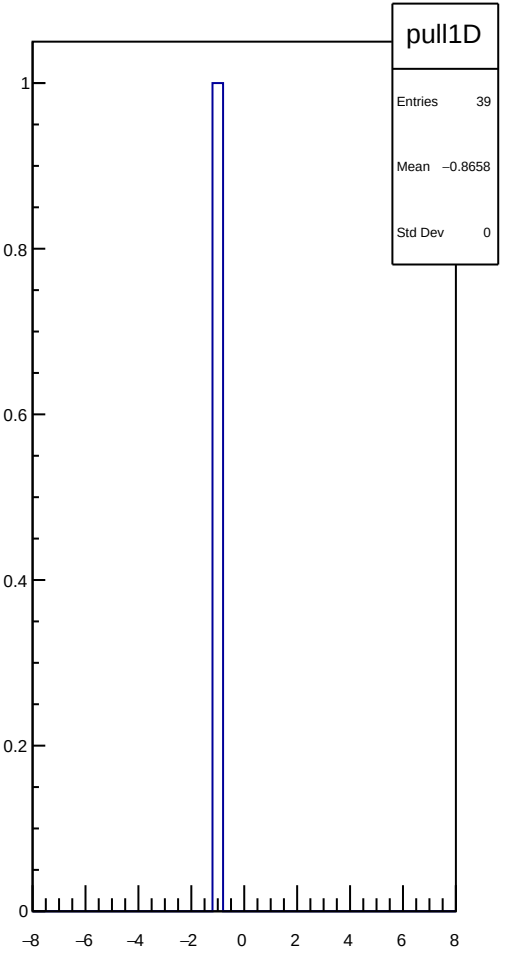

yield_bpm0i02Y_rms vs run
χ² / ndf 7169 / 38
p0 0.0086 ± 9.924e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

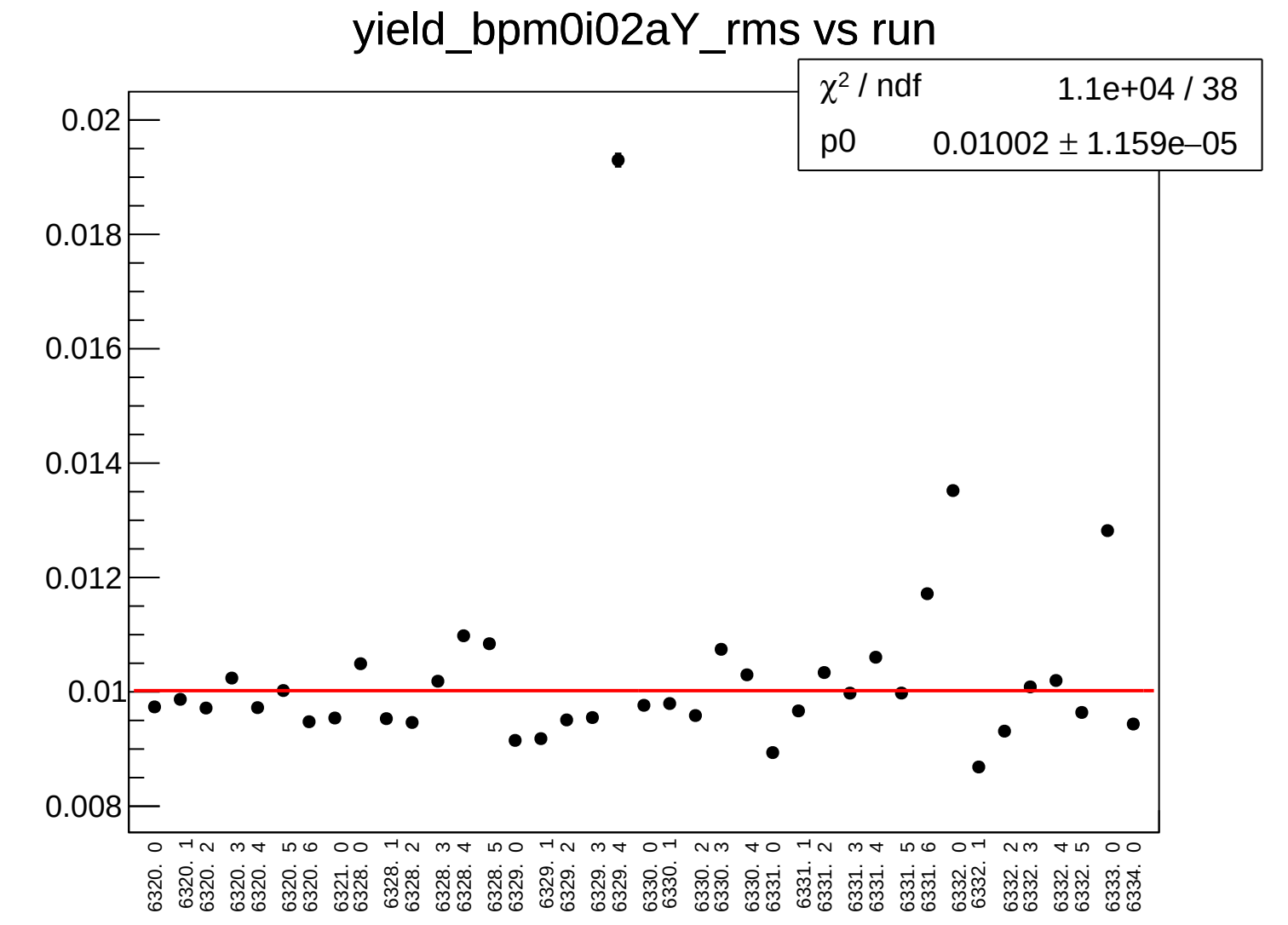

yield_bpm0i02aX_mean vs run
χ² / ndf 1.218e+06 / 38
p0 1.554 ± 2.409e−05
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 739.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

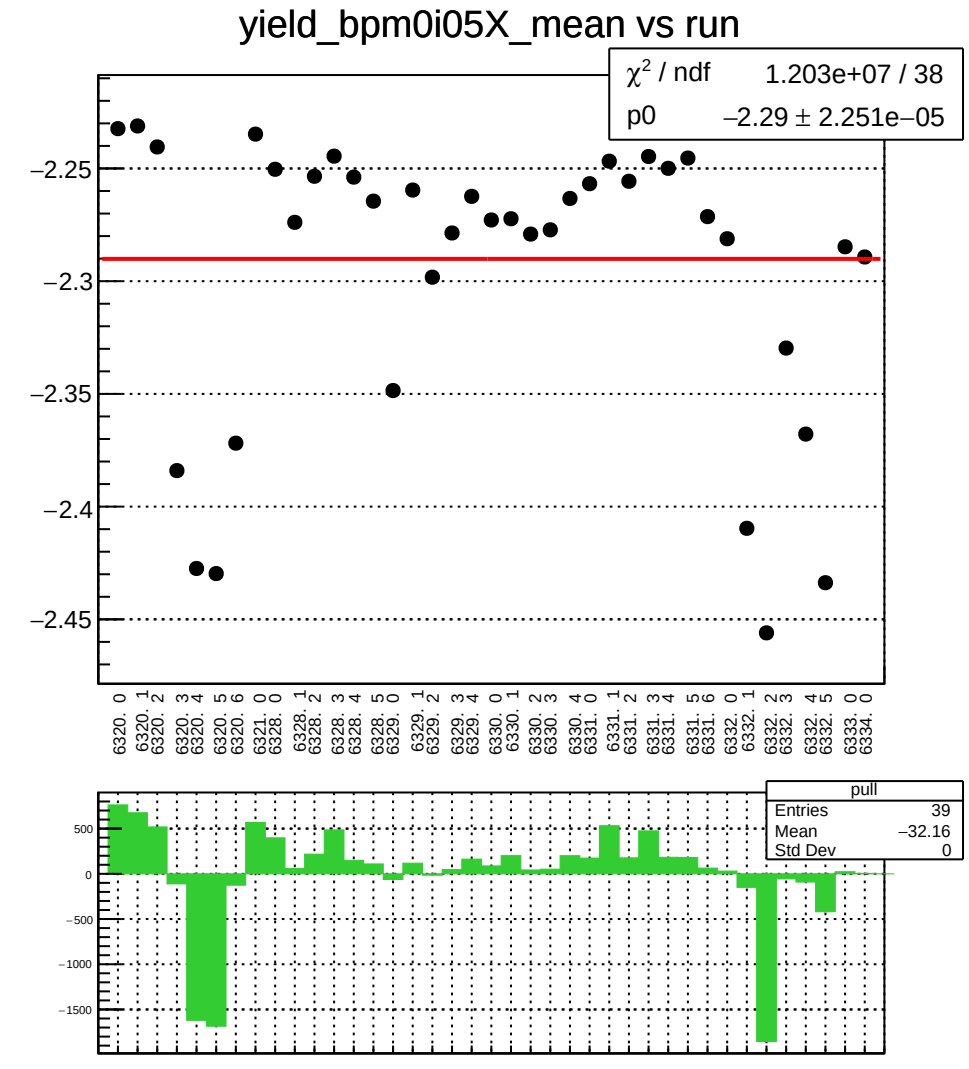

pull1D
Entries 39
Mean 4.184
Std Dev 2.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

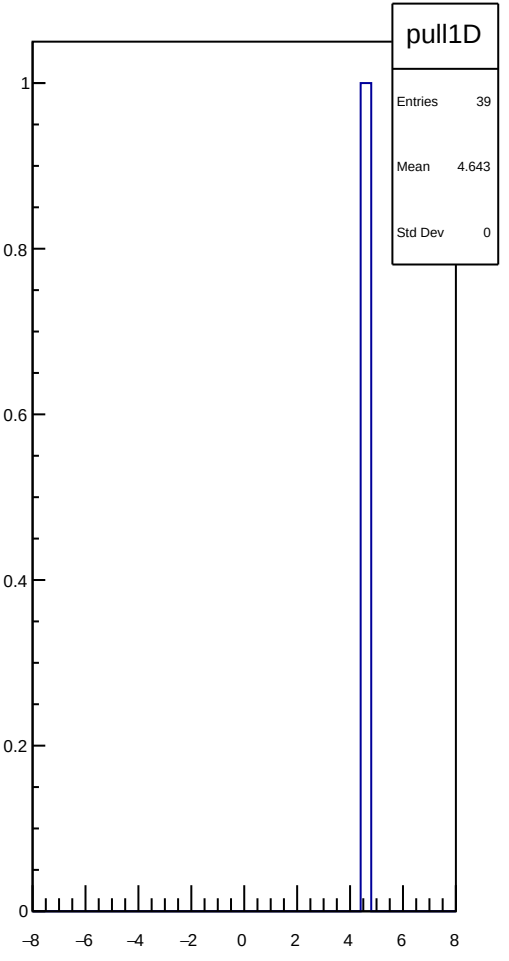

yield_bpm0i02aX_rms vs run
χ² / ndf 1.855e+04 / 38
p0 0.01465 ± 1.704e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

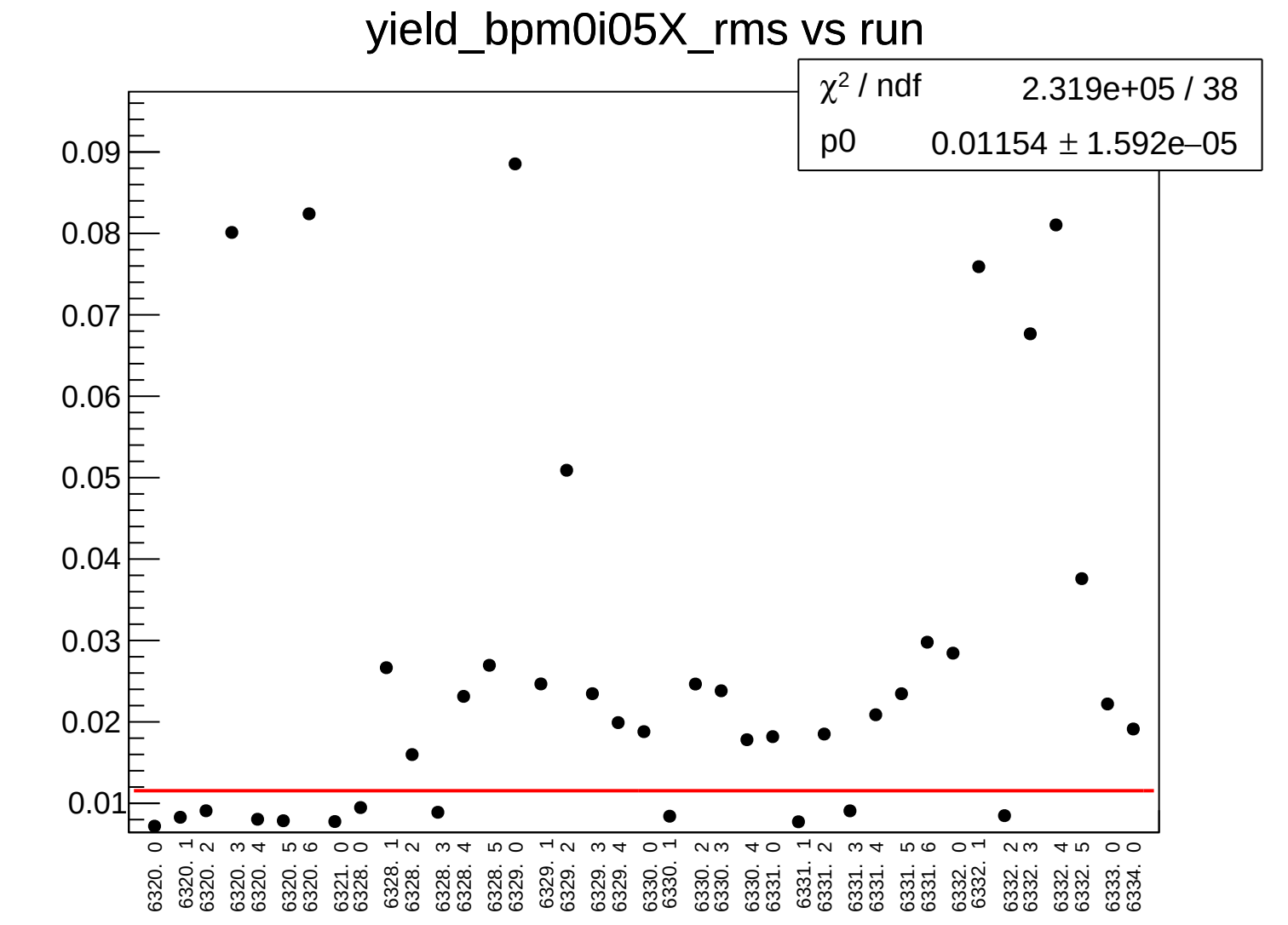

yield_bpm0i02aY_mean vs run
χ² / ndf 2.38e+06 / 38
p0 −1.299 ± 1.64e−05
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 2586
Std Dev 0
600
400
200
0
−200
−400

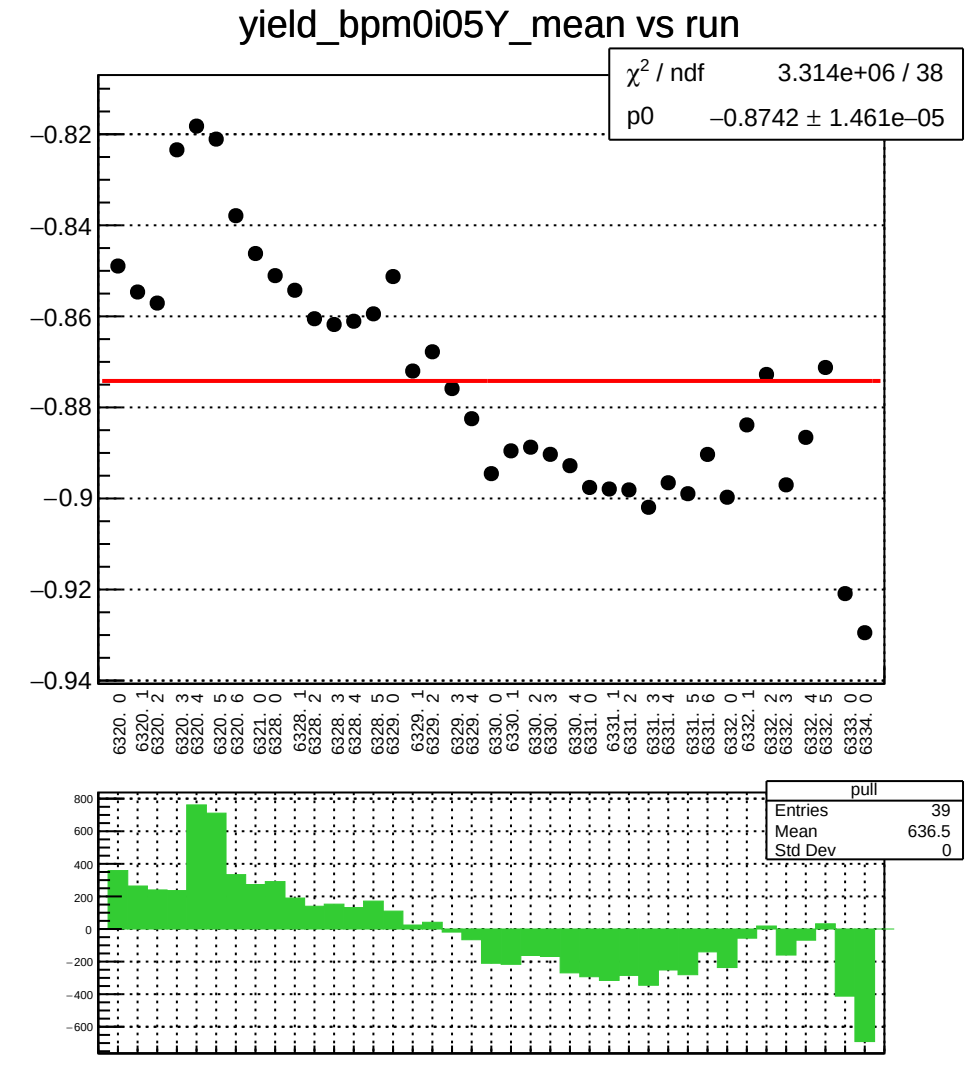

pull1D
Entries 39
Mean −0.8658
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

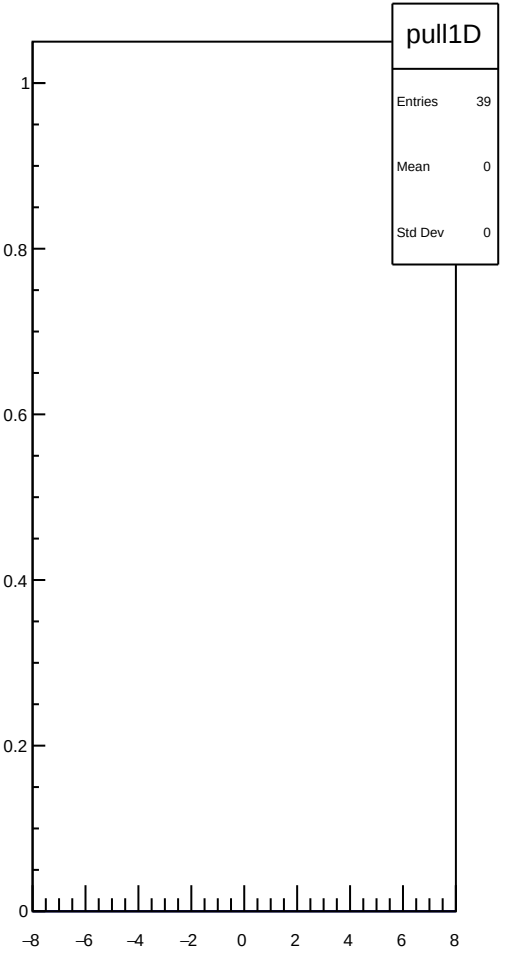

yield_bpm0i02aY_rms vs run
χ² / ndf 1.1e+04 / 38
p0 0.01002 ± 1.159e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

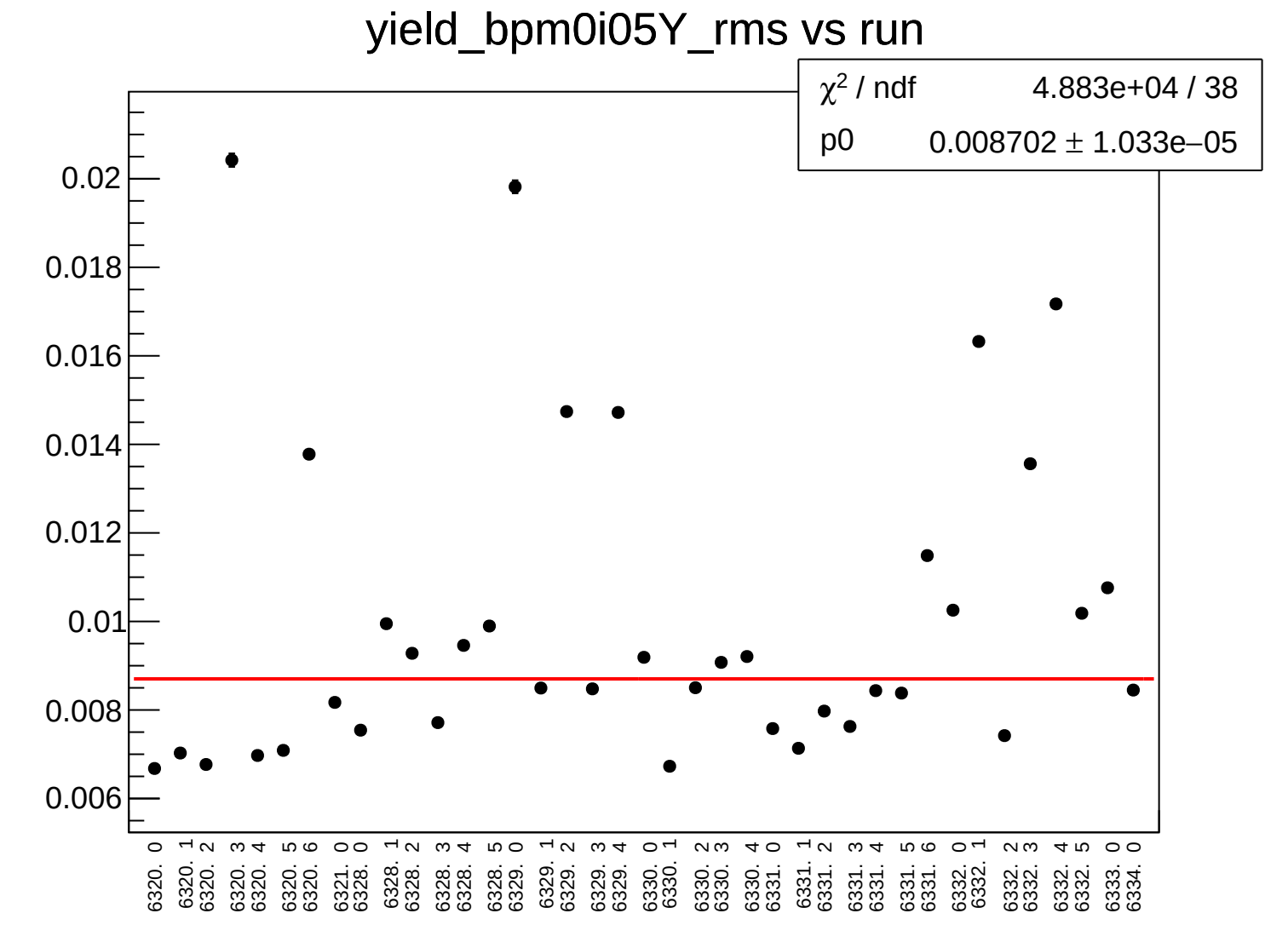

yield_bpm0i05X_mean vs run
χ² / ndf 1.203e+07 / 38
p0 −2.29 ± 2.251e−05
−2.25
−2.3
−2.35
−2.4
−2.45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.16
Std Dev 0
500
0
−500
−1000
−1500

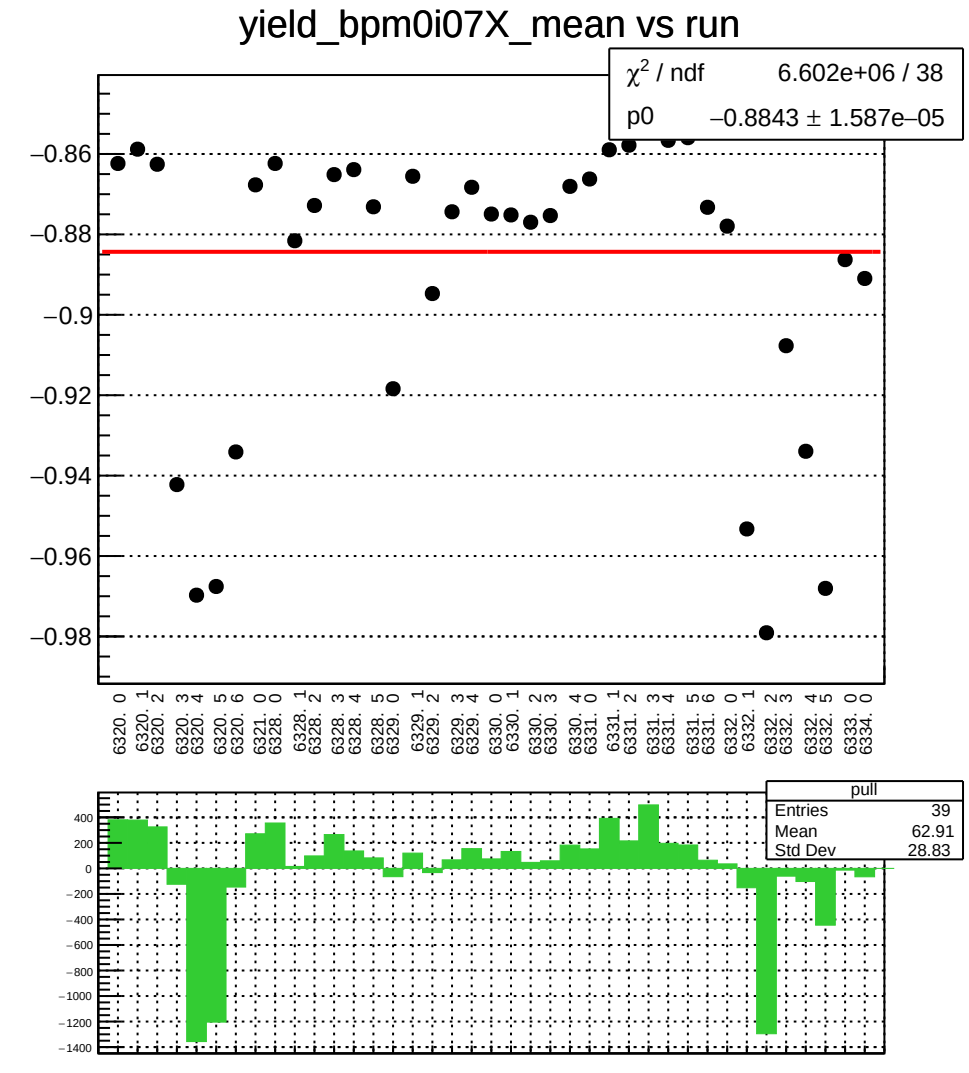

pull1D
Entries 39
Mean 4.643
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

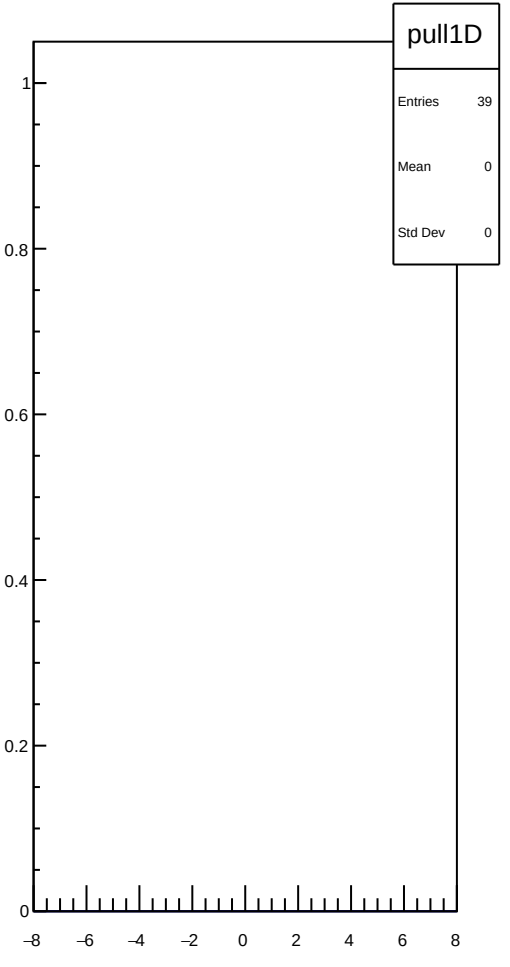

yield_bpm0i05X_rms vs run
χ² / ndf 2.319e+05 / 38
p0 0.01154 ± 1.592e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

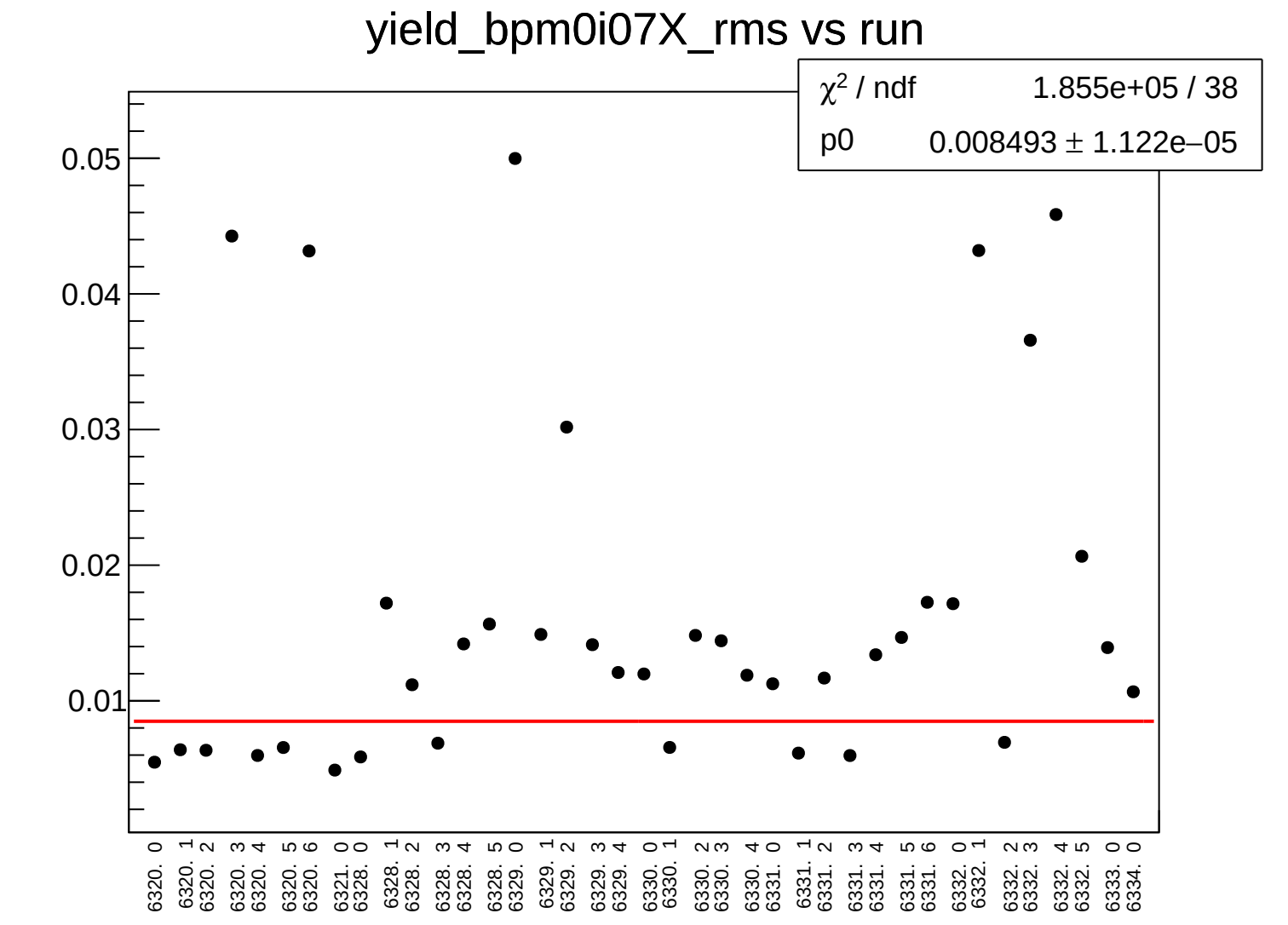

yield_bpm0i05Y_mean vs run
χ² / ndf 3.314e+06 / 38
p0 −0.8742 ± 1.461e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 636.5
Std Dev 0
800
600
400
200
0
−200
−400
−600

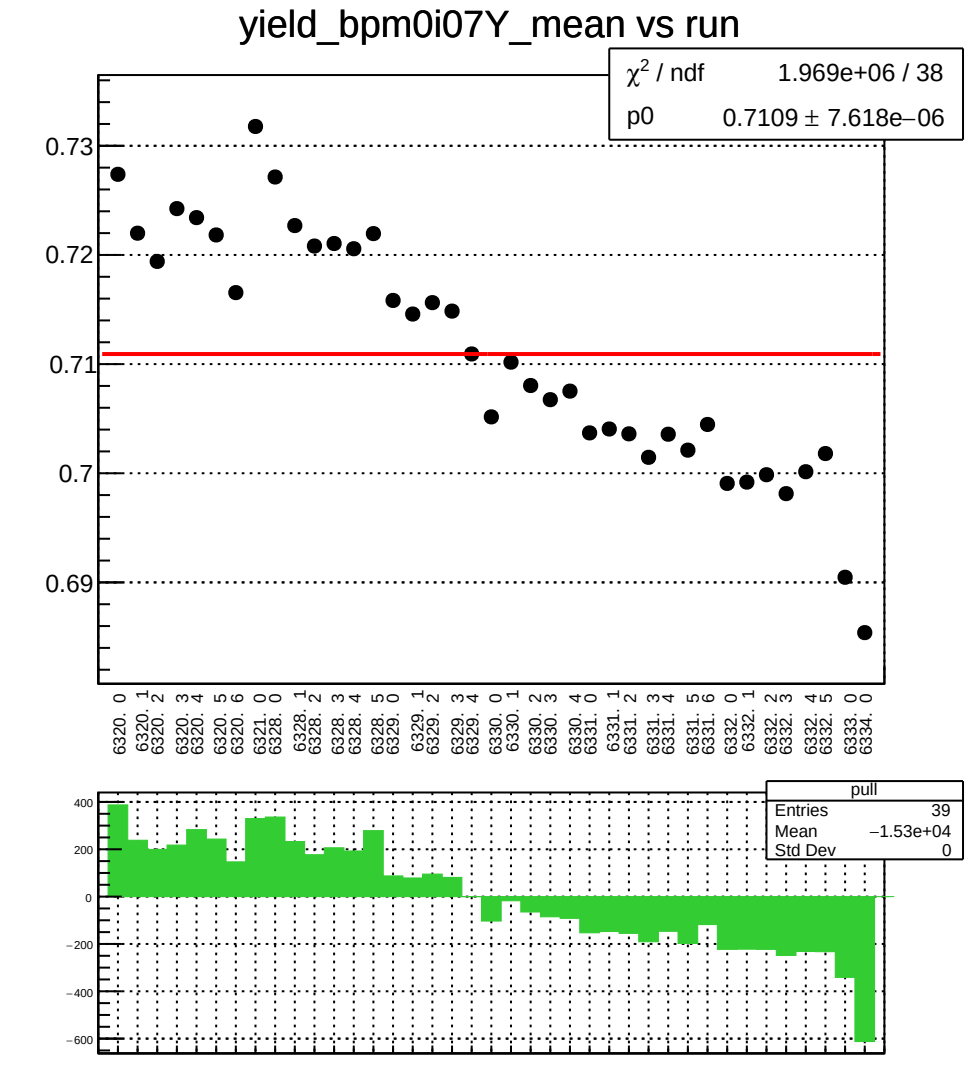

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

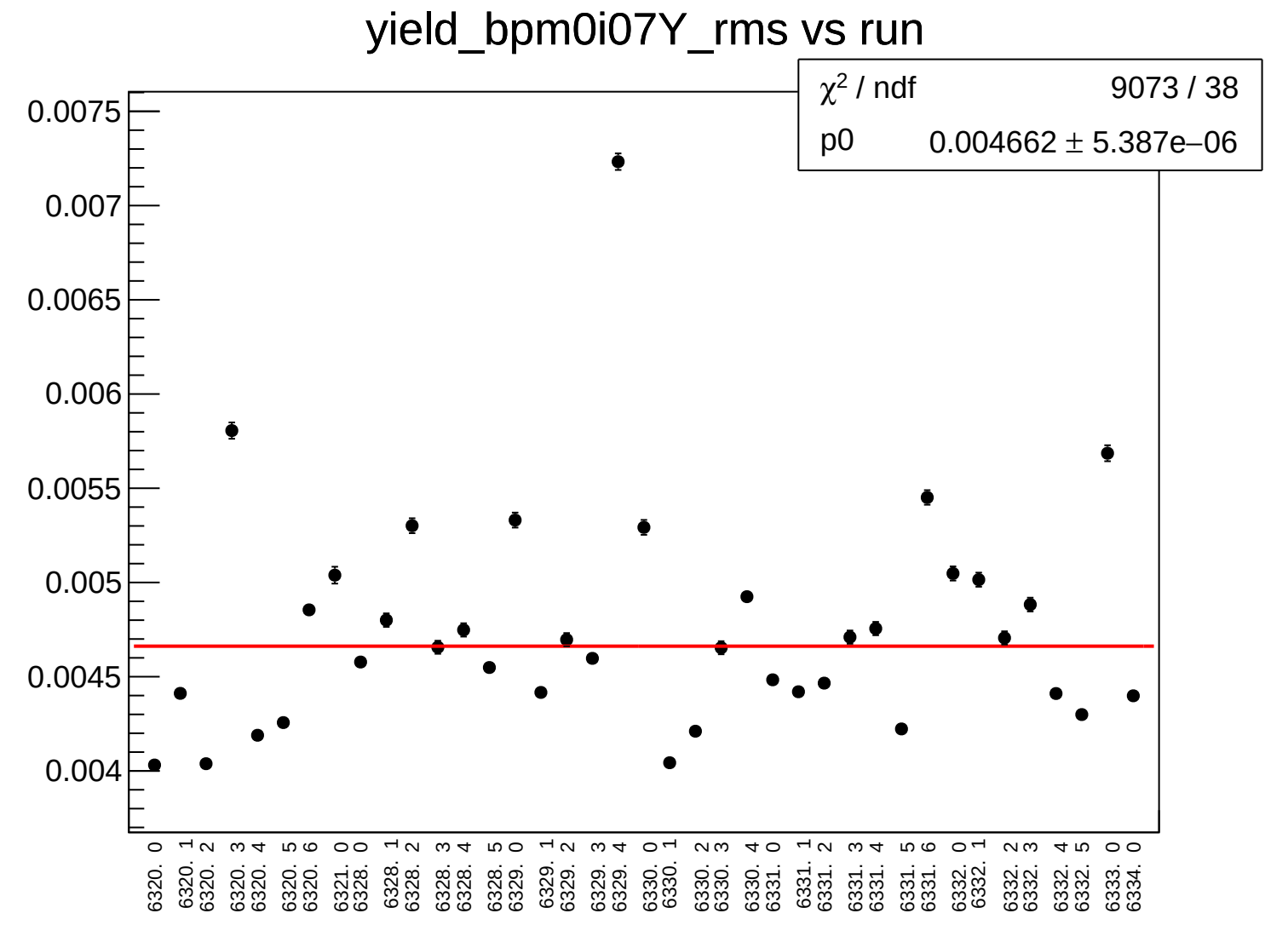

yield_bpm0i05Y_rms vs run
χ² / ndf 4.883e+04 / 38
p0 0.008702 ± 1.033e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

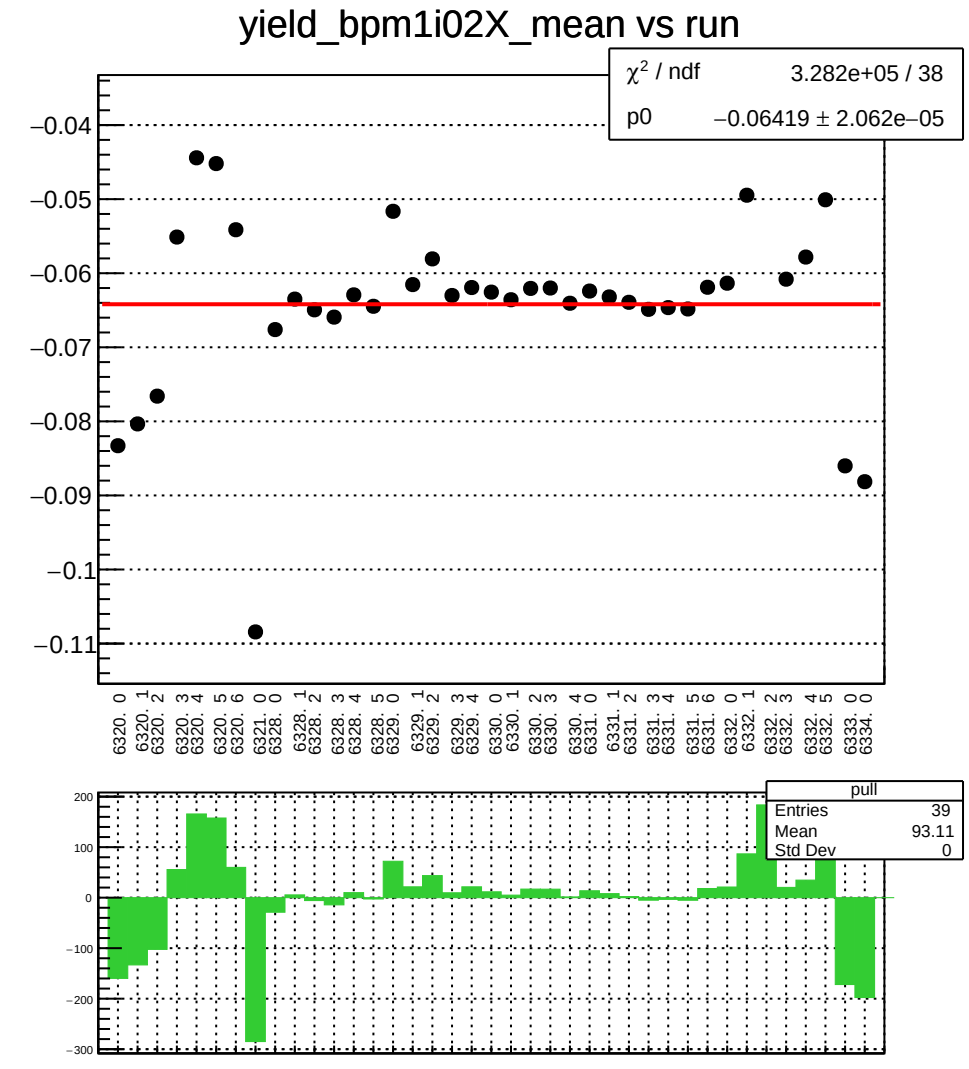

yield_bpm0i07X_mean vs run
χ² / ndf 6.602e+06 / 38
p0 −0.8843 ± 1.587e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 62.91
Std Dev 28.83
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

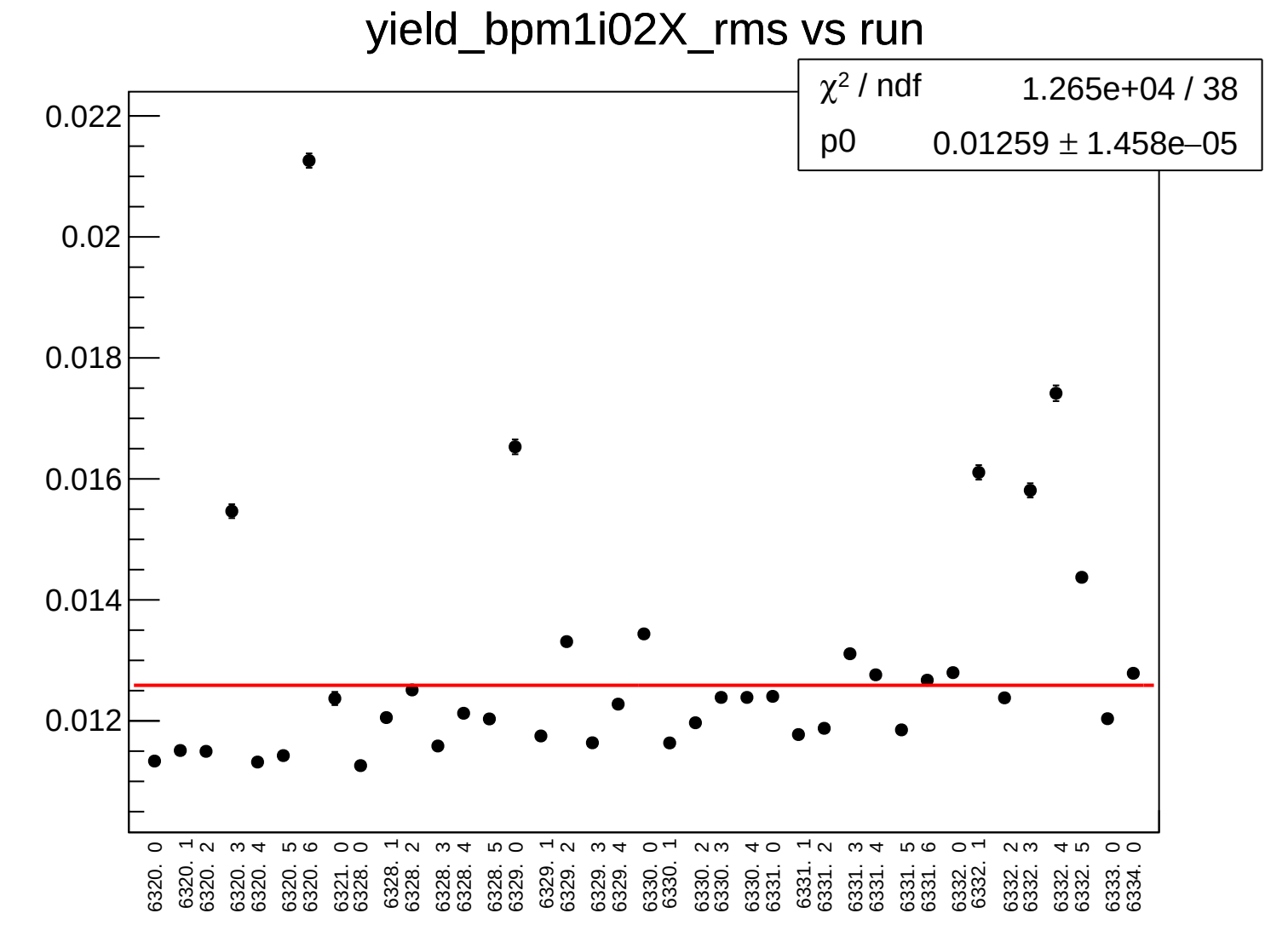

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

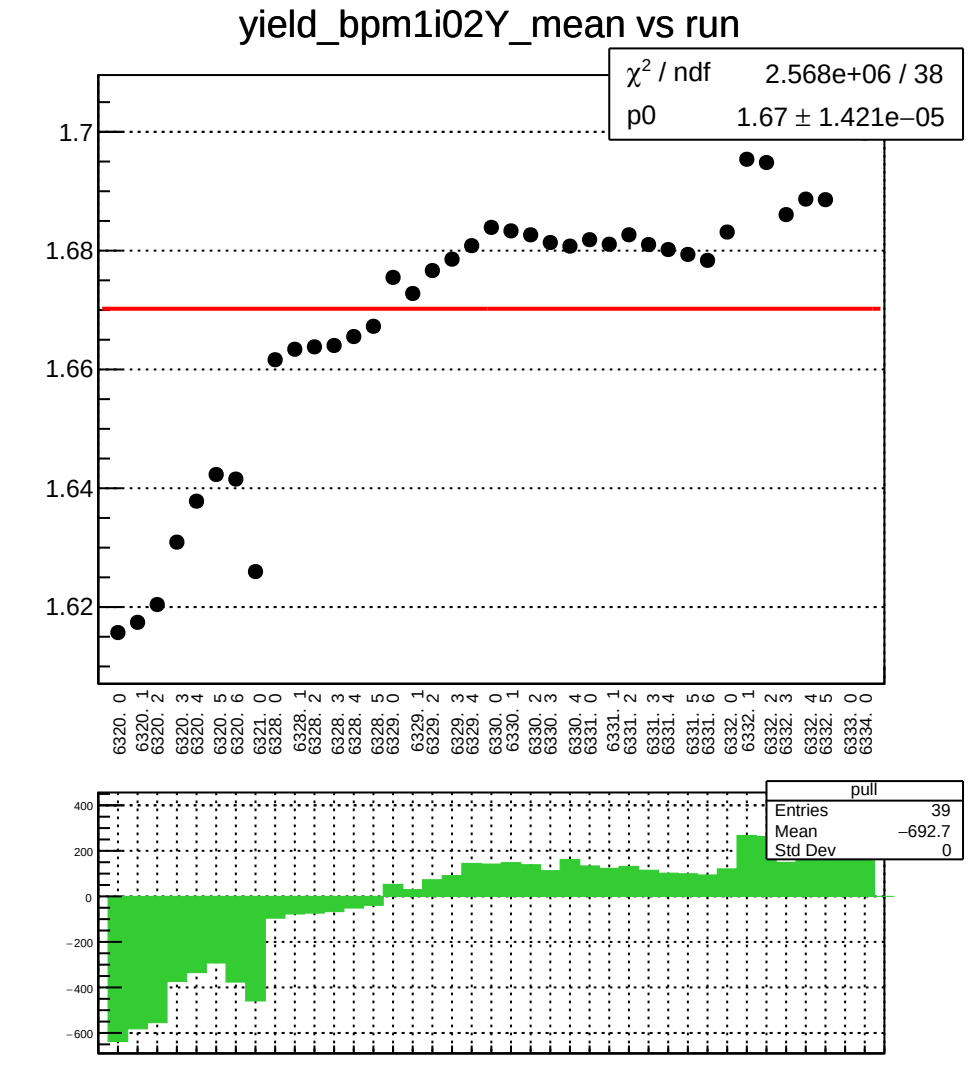

yield_bpm0i07X_rms vs run
χ² / ndf 1.855e+05 / 38
p0 0.008493 ± 1.122e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

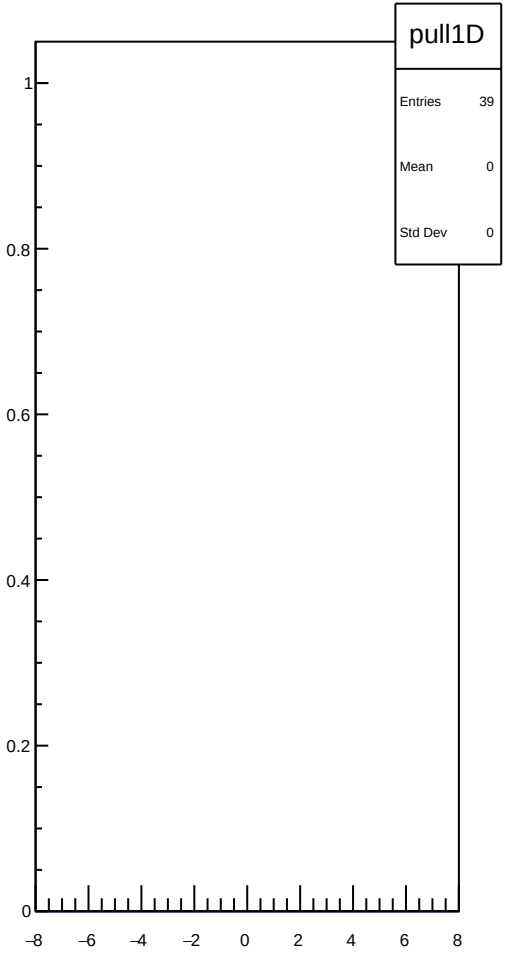

yield_bpm0i07Y_mean vs run
χ² / ndf 1.969e+06 / 38
p0 0.7109 ± 7.618e−06
0.73
0.72
0.71
0.7
0.69
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.53e+04
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 39
Mean 0.135
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

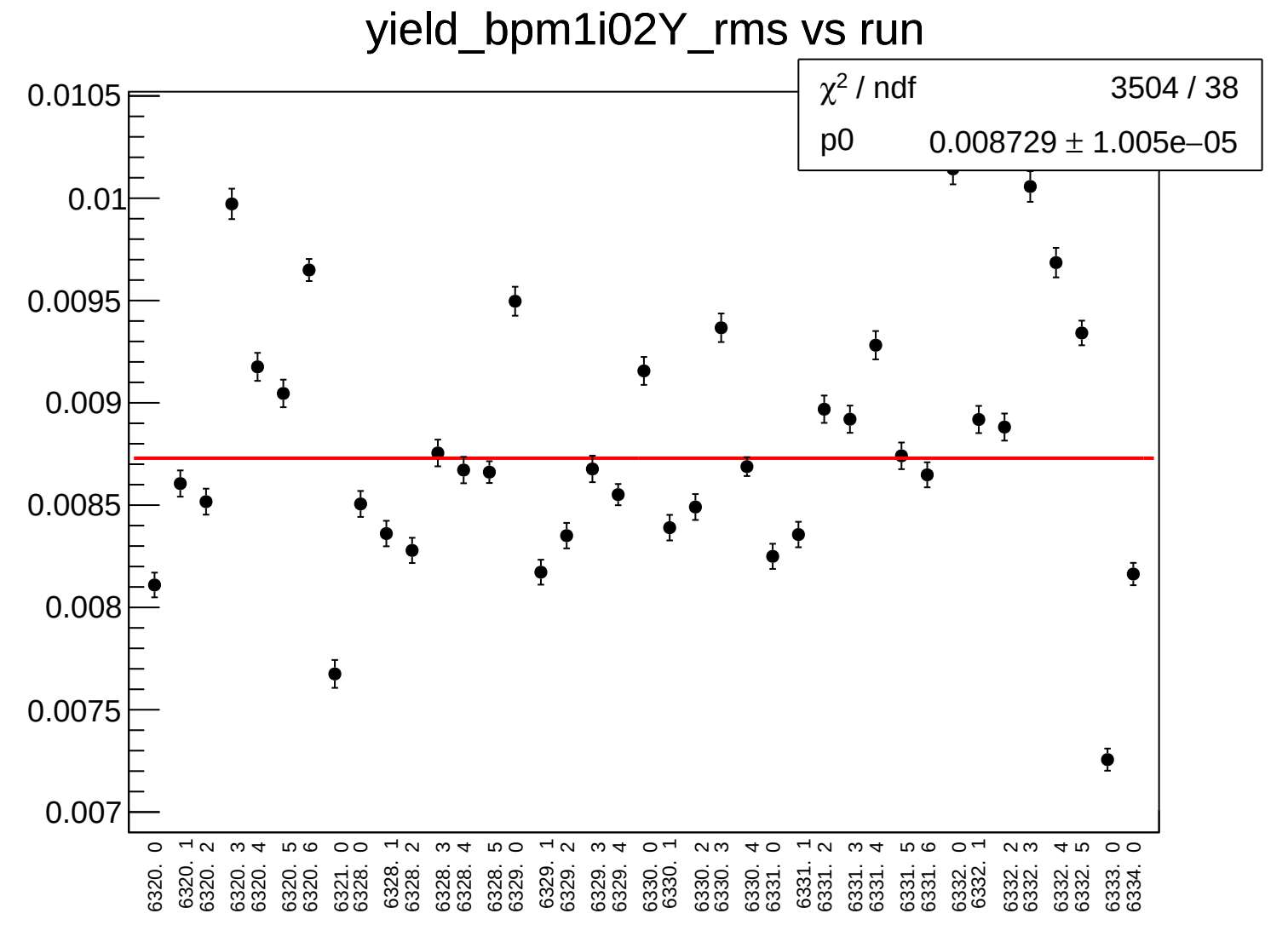

yield_bpm0i07Y_rms vs run
χ² / ndf 9073 / 38
p0 0.004662 ± 5.387e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

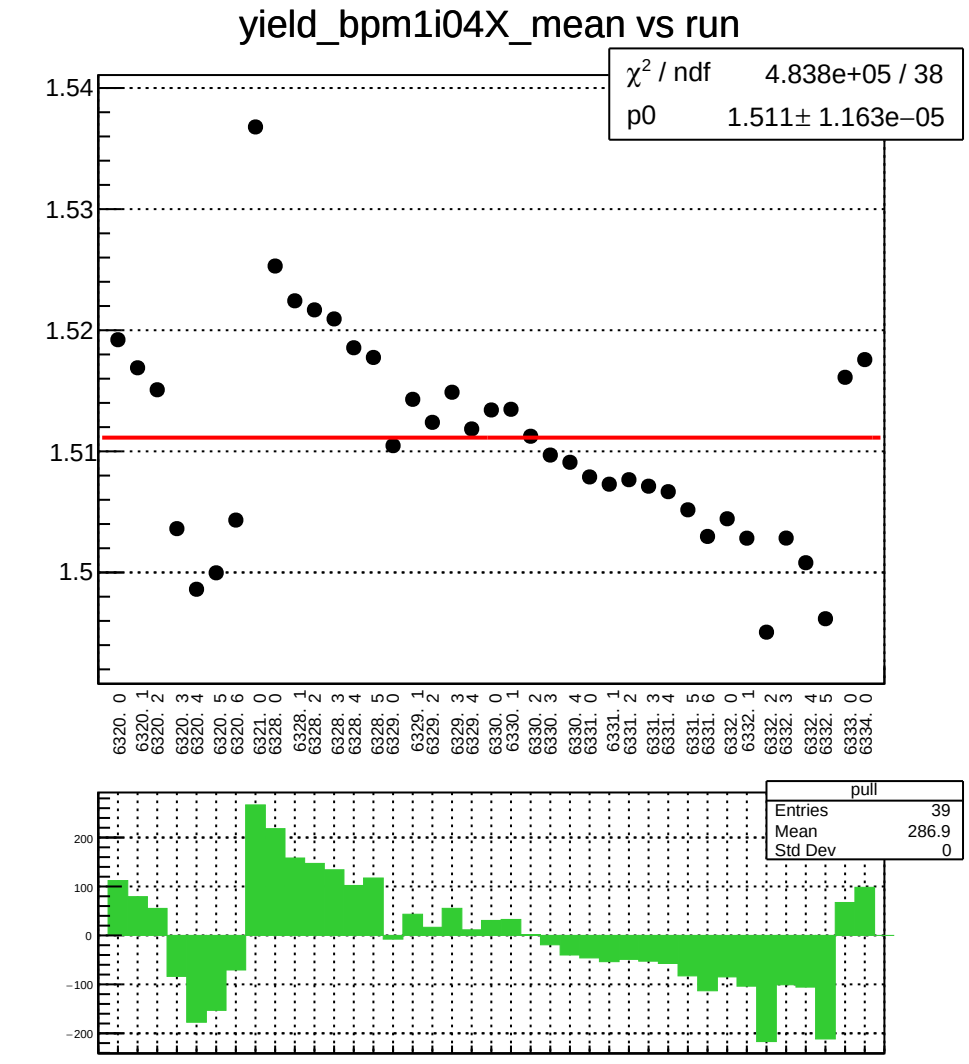

yield_bpm1i02X_mean vs run
χ² / ndf 3.282e+05 / 38
p0 −0.06419 ± 2.062e−05
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 93.11
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 39
Mean 0.02255
Std Dev 4.753
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

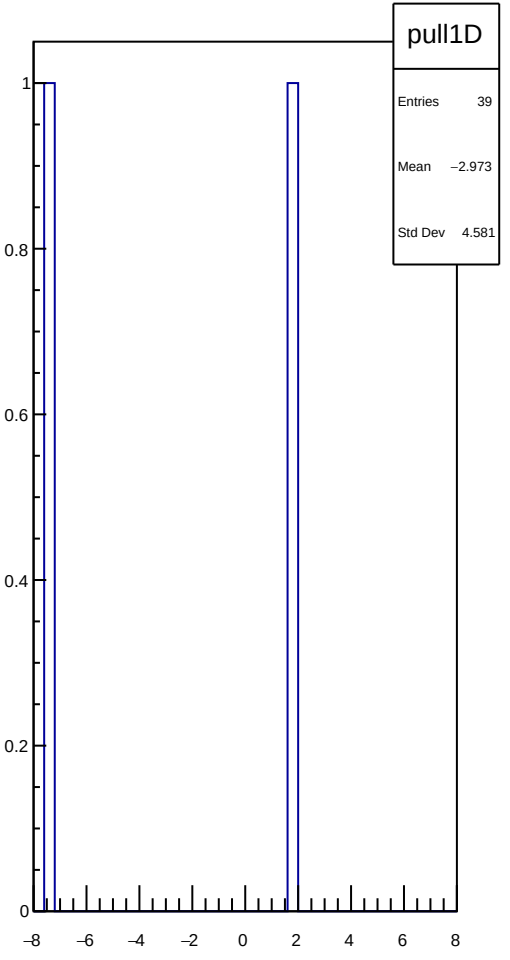

yield_bpm1i02X_rms vs run
χ² / ndf 1.265e+04 / 38
p0 0.01259 ± 1.458e−05
0.022
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

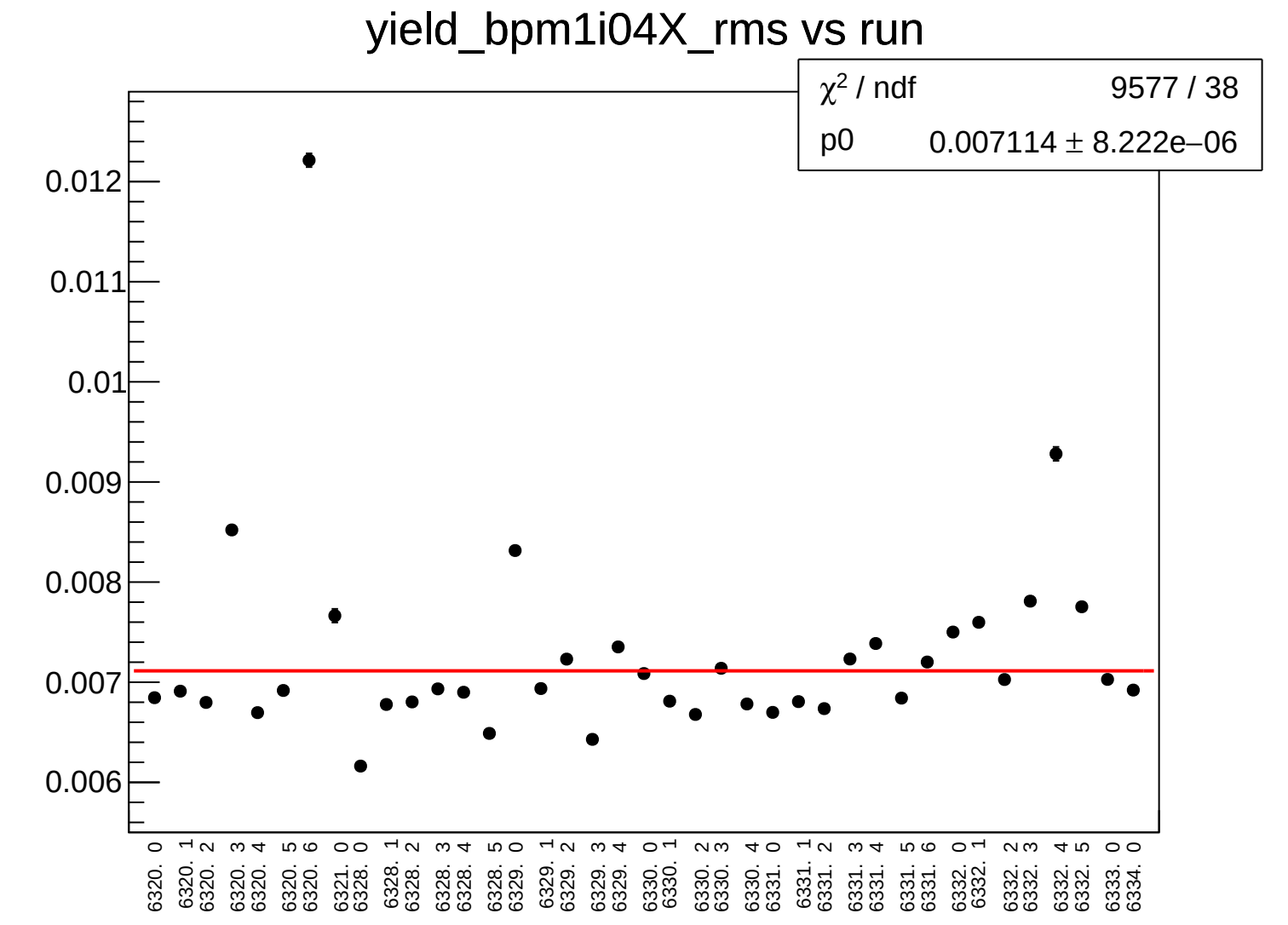

yield_bpm1i02Y_mean vs run
χ² / ndf 2.568e+06 / 38
p0 1.67 ± 1.421e−05
1.7
1.68
1.66
1.64
1.62
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −692.7
Std Dev 0
400
200
0
−200
−400
−600

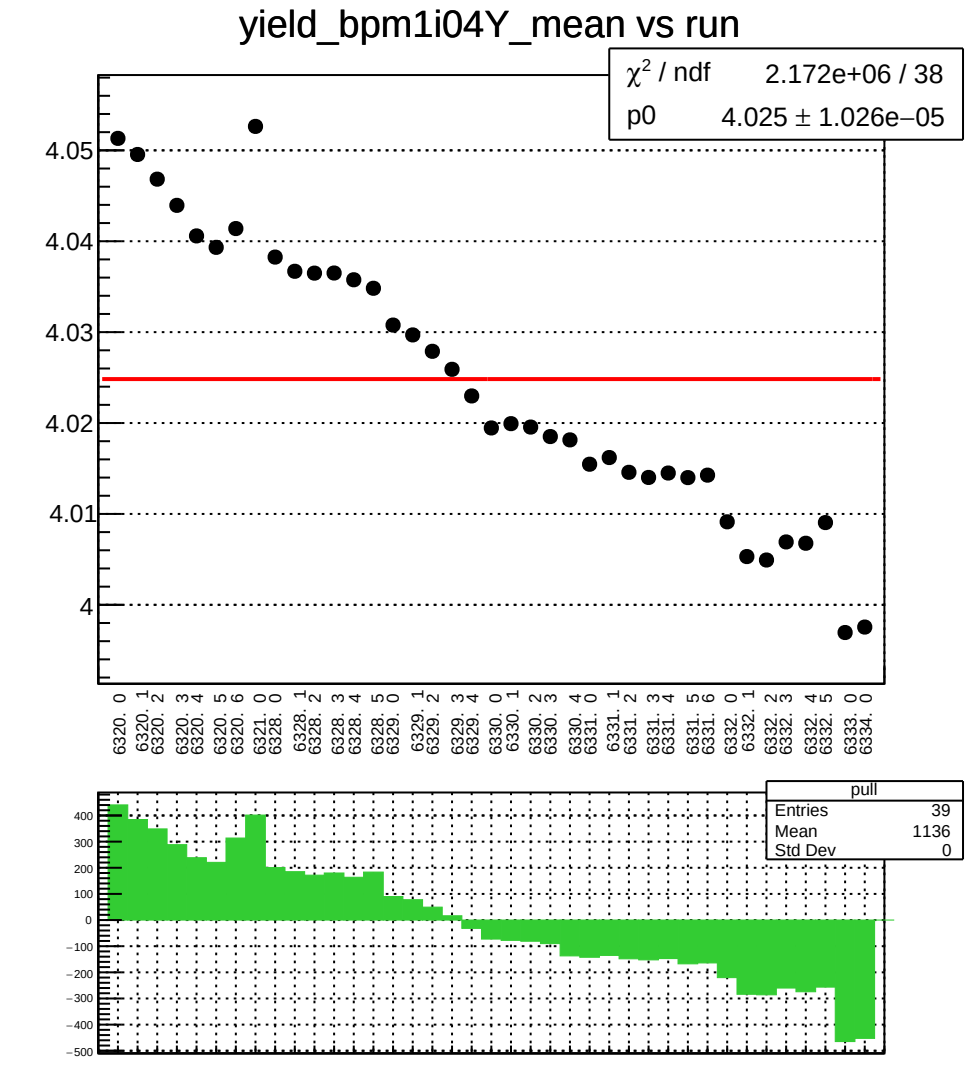

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

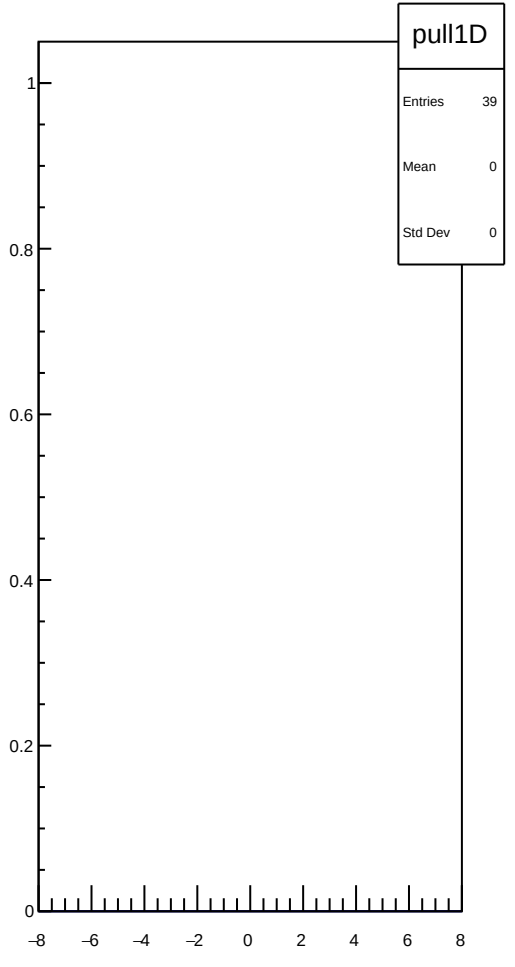

yield_bpm1i02Y_rms vs run
χ² / ndf 3504 / 38
p0 0.008729 ± 1.005e−05
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

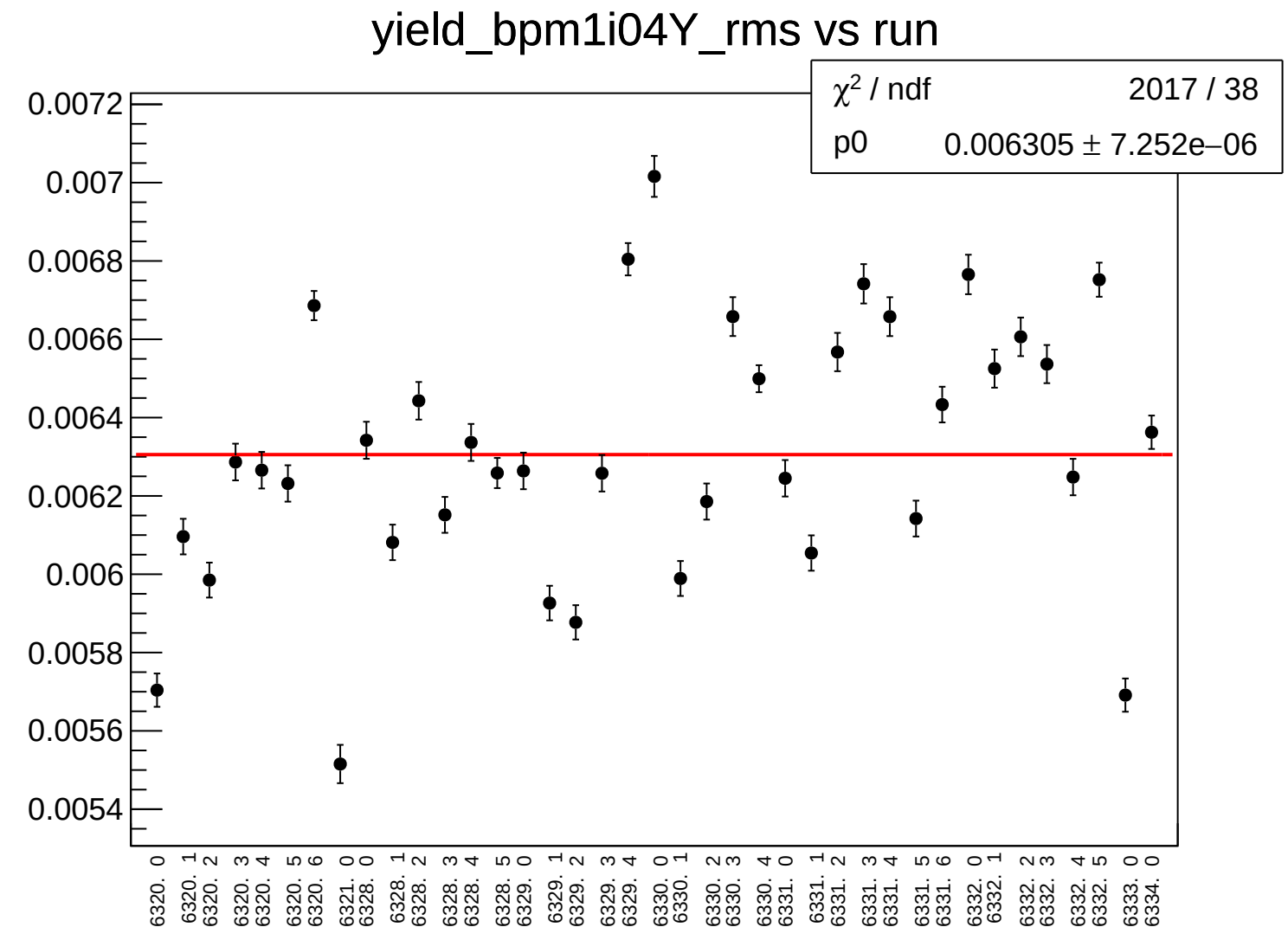

yield_bpm1i04X_mean vs run
χ² / ndf 4.838e+05 / 38
p0 1.511± 1.163e−05
1.54
1.53
1.52
1.51
1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 286.9
Std Dev 0
200
100
0
−100
−200

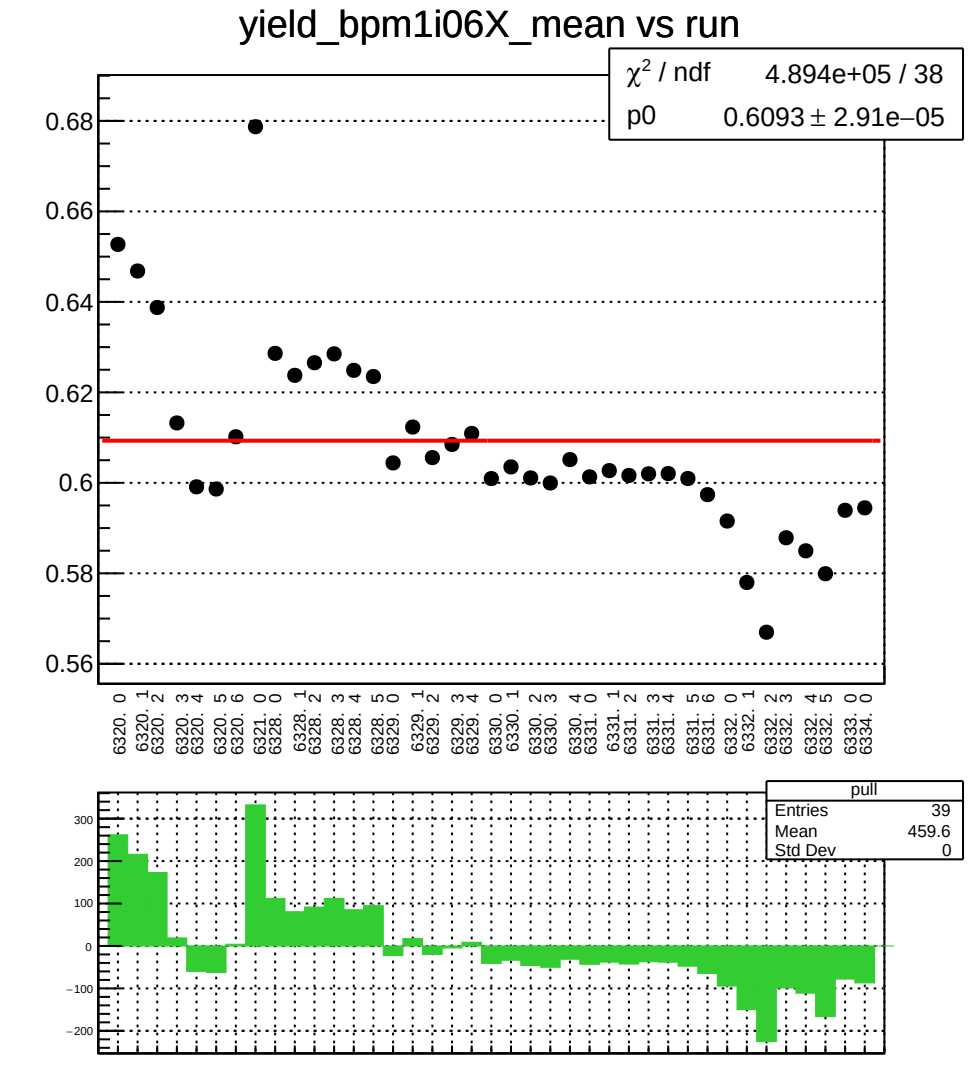

pull1D
Entries 39
Mean −2.973
Std Dev 4.581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

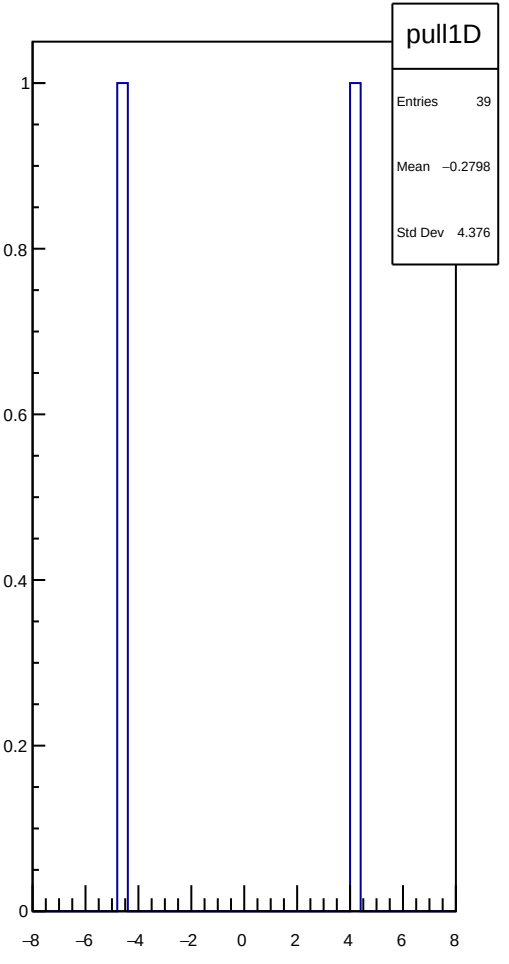

yield_bpm1i04X_rms vs run
χ² / ndf 9577 / 38
p0 0.007114 ± 8.222e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

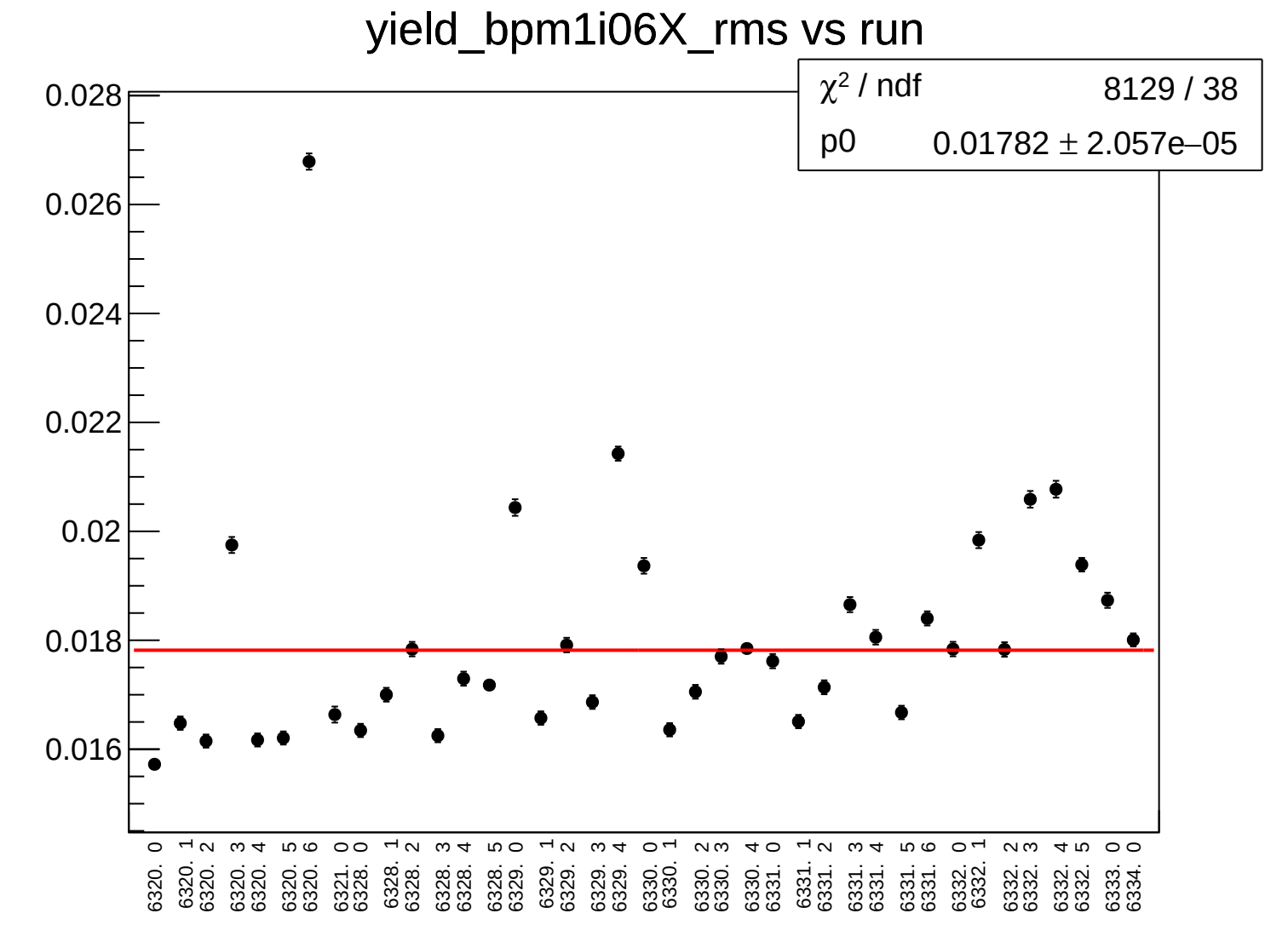

yield_bpm1i04Y_mean vs run
χ² / ndf 2.172e+06 / 38
p0 4.025 ± 1.026e−05
4.05
4.04
4.03
4.02
4.01
4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1136
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

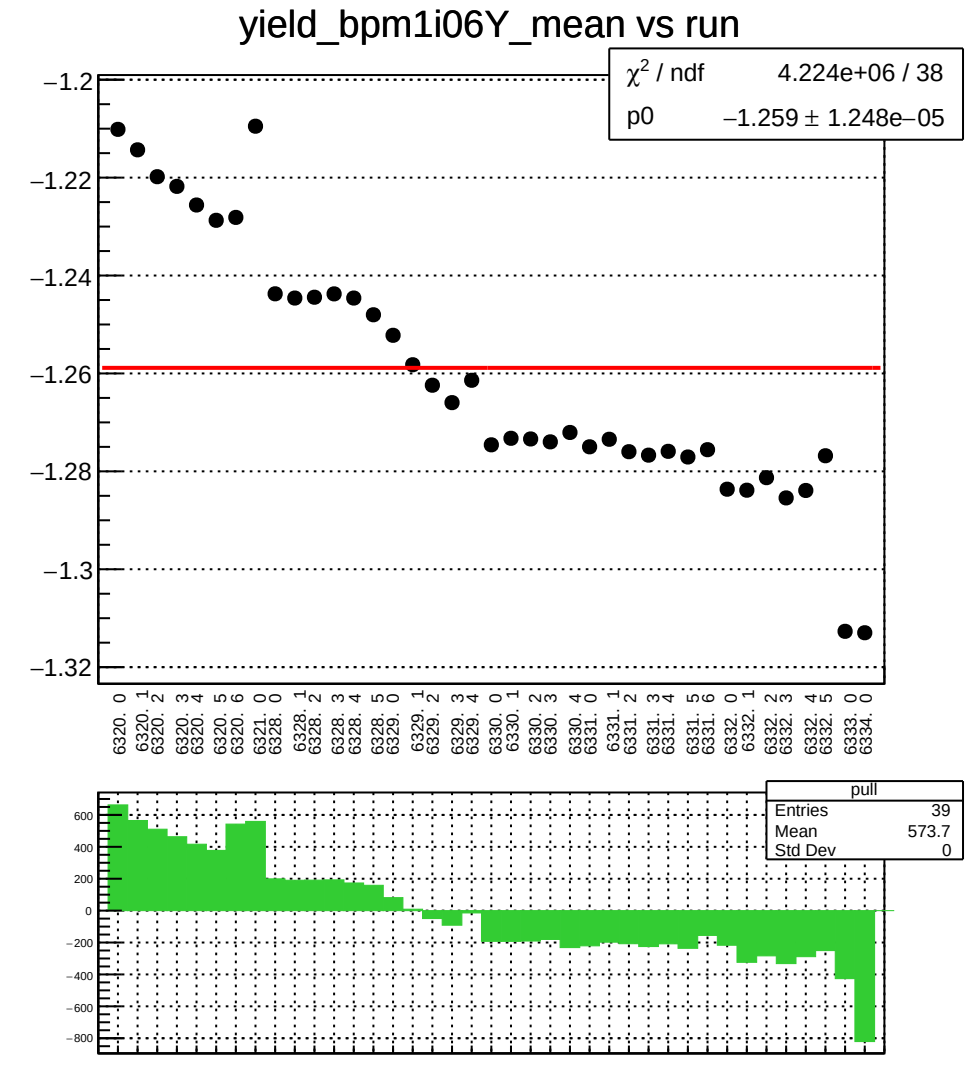

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

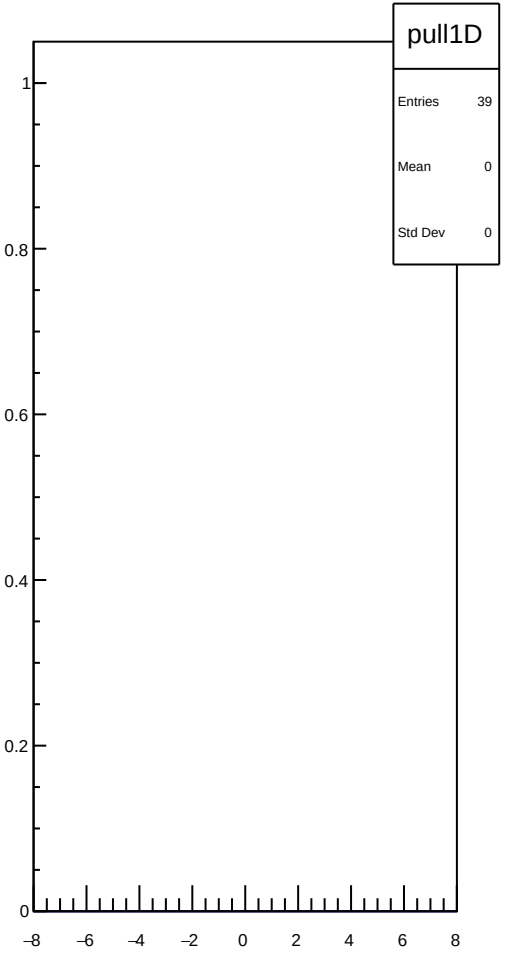

yield_bpm1i04Y_rms vs run
χ² / ndf 2017 / 38
p0 0.006305 ± 7.252e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

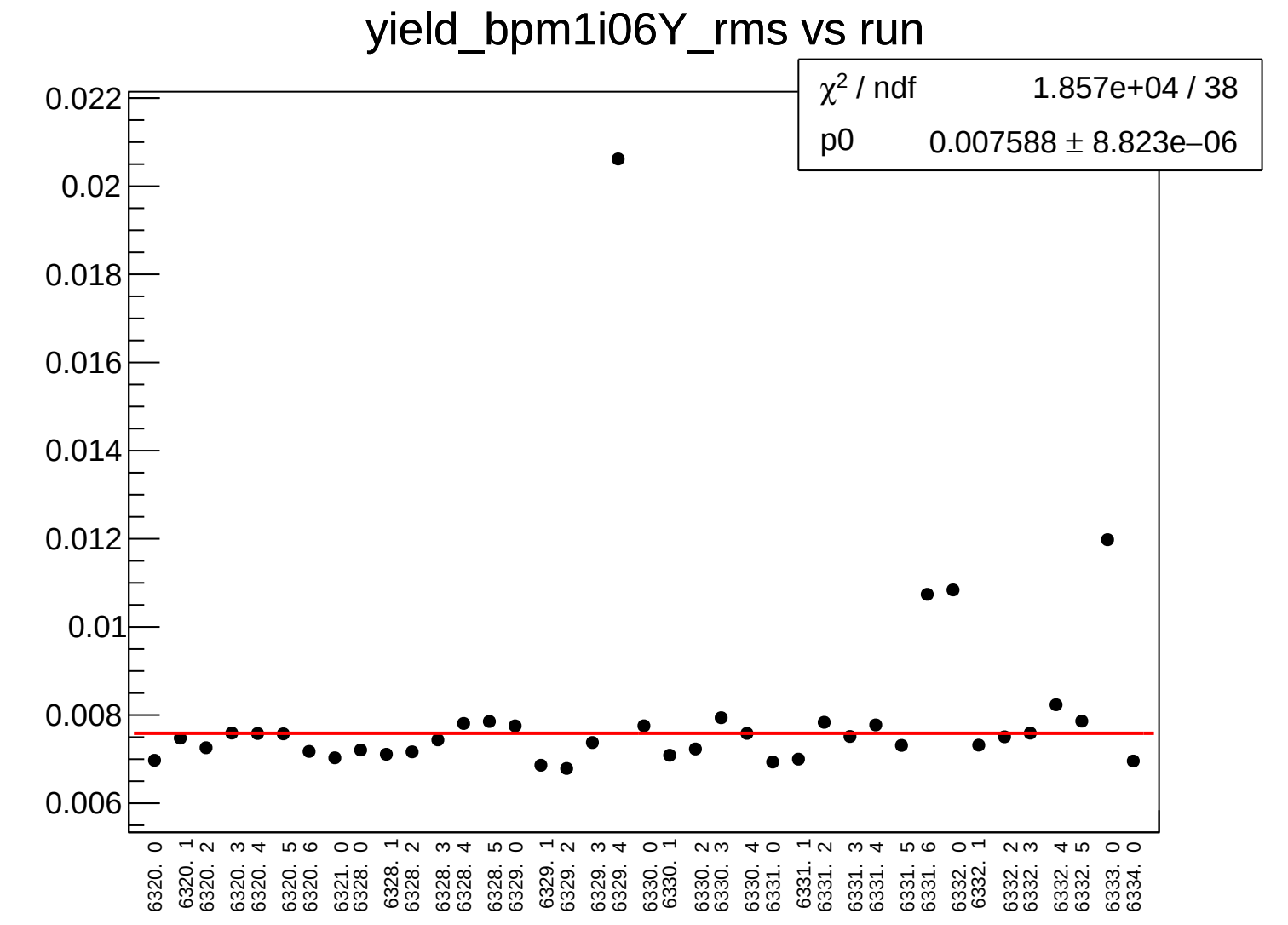

yield_bpm1i06X_mean vs run
χ² / ndf 4.894e+05 / 38
p0 0.6093 ± 2.91e−05
0.68
0.66
0.64
0.62
0.6
0.58
0.56
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 459.6
Std Dev 0
300
200
100
0
−100
−200

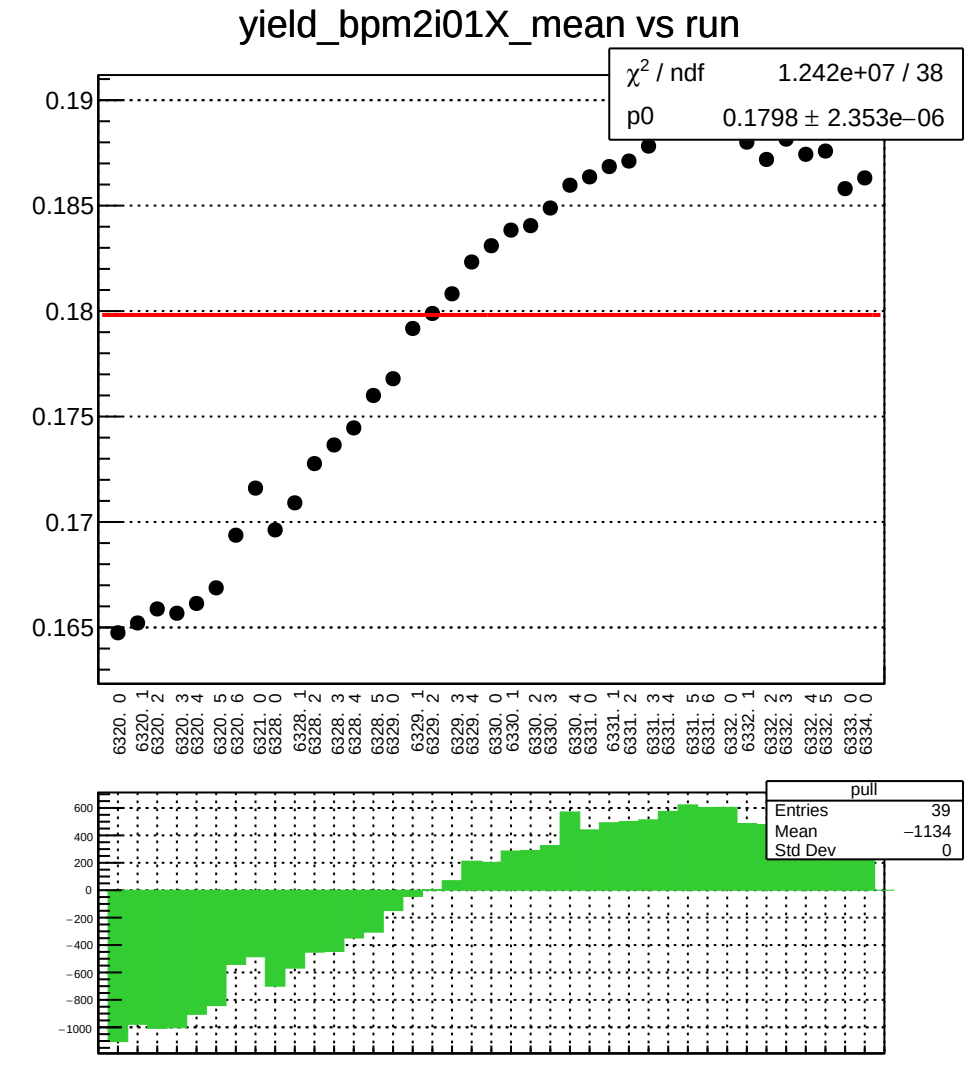

pull1D
Entries 39
Mean −0.2798
Std Dev 4.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

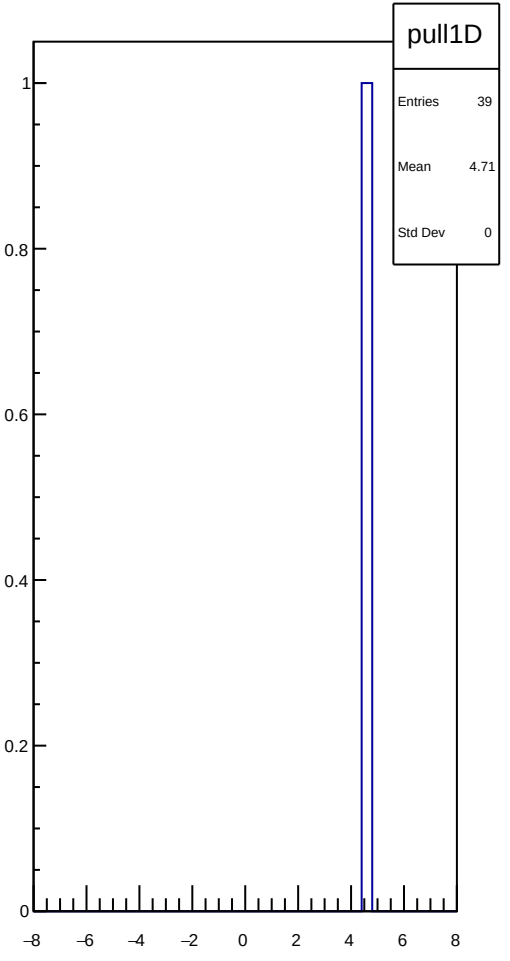

yield_bpm1i06X_rms vs run
χ² / ndf 8129 / 38
p0 0.01782 ± 2.057e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

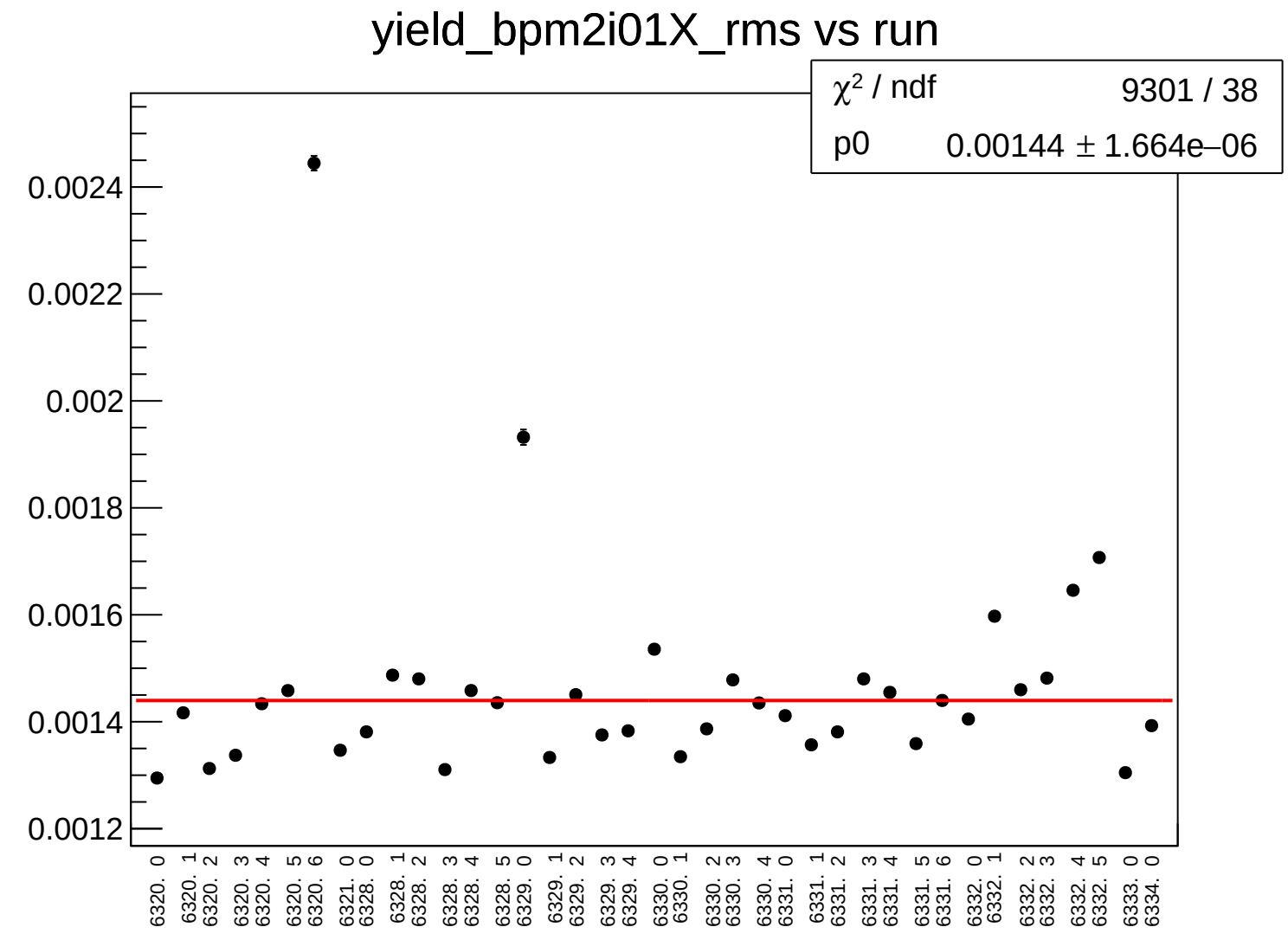

yield_bpm1i06Y_mean vs run
χ² / ndf 4.224e+06 / 38
p0 −1.259 ± 1.248e−05
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 573.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800

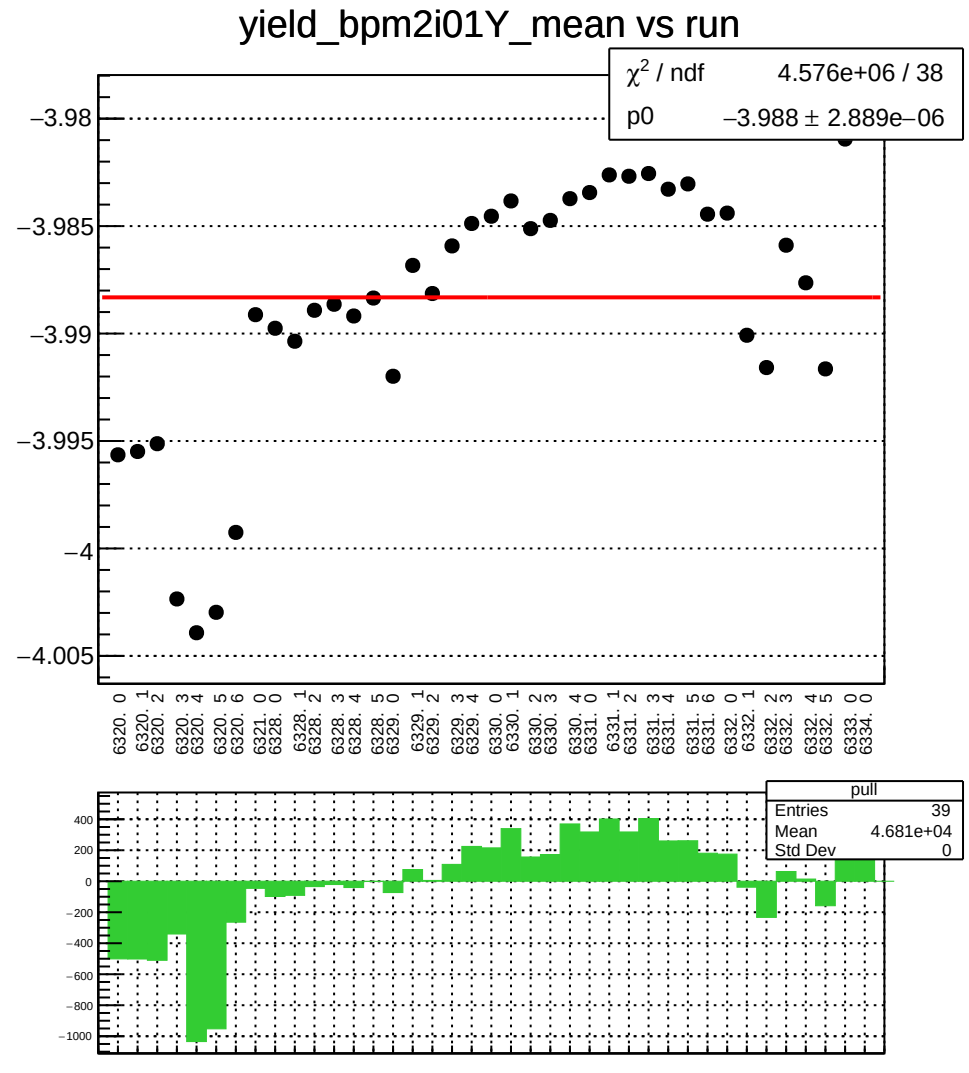

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

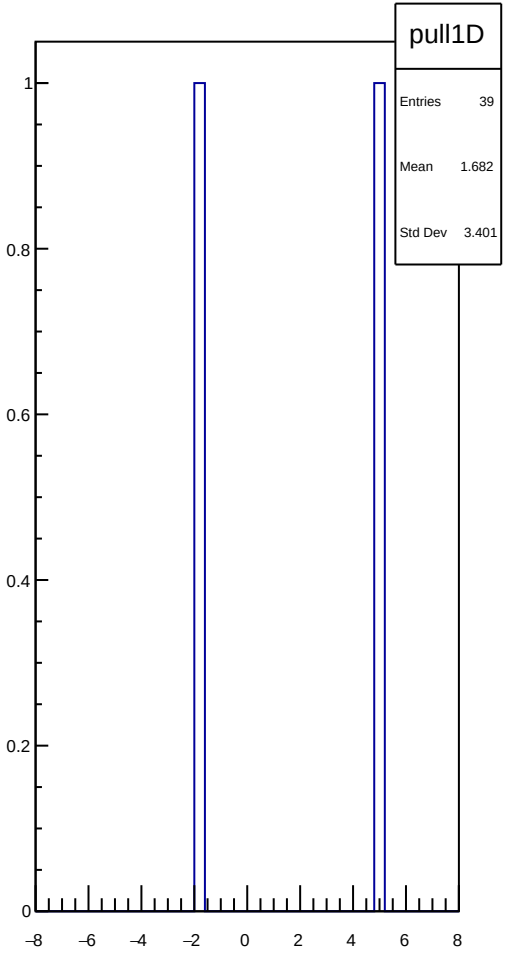

yield_bpm1i06Y_rms vs run
χ² / ndf 1.857e+04 / 38
p0 0.007588 ± 8.823e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

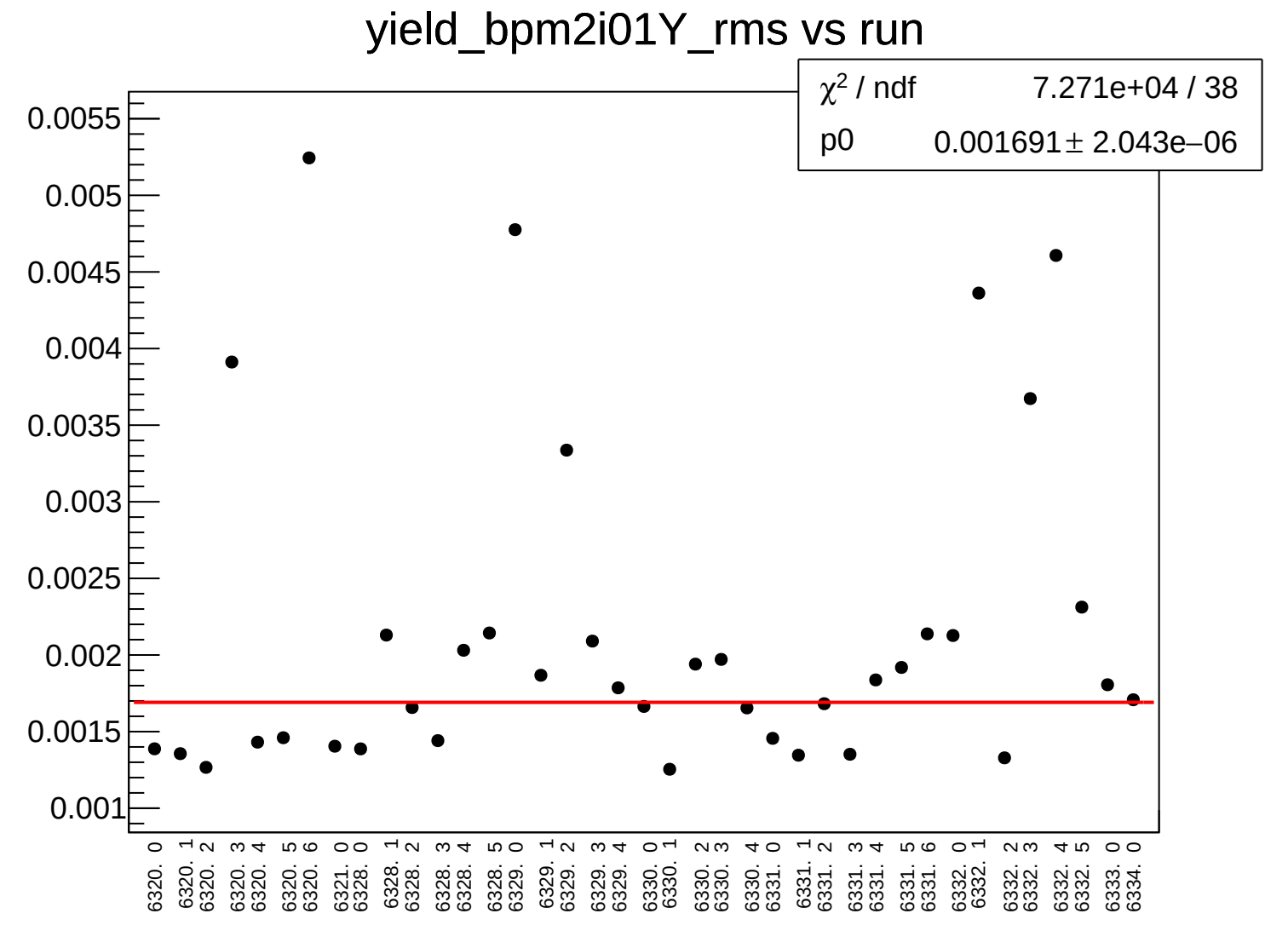

yield_bpm2i01X_mean vs run
χ² / ndf 1.242e+07 / 38
p0 0.1798 ± 2.353e−06
0.19
0.185
0.18
0.175
0.17
0.165
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1134
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

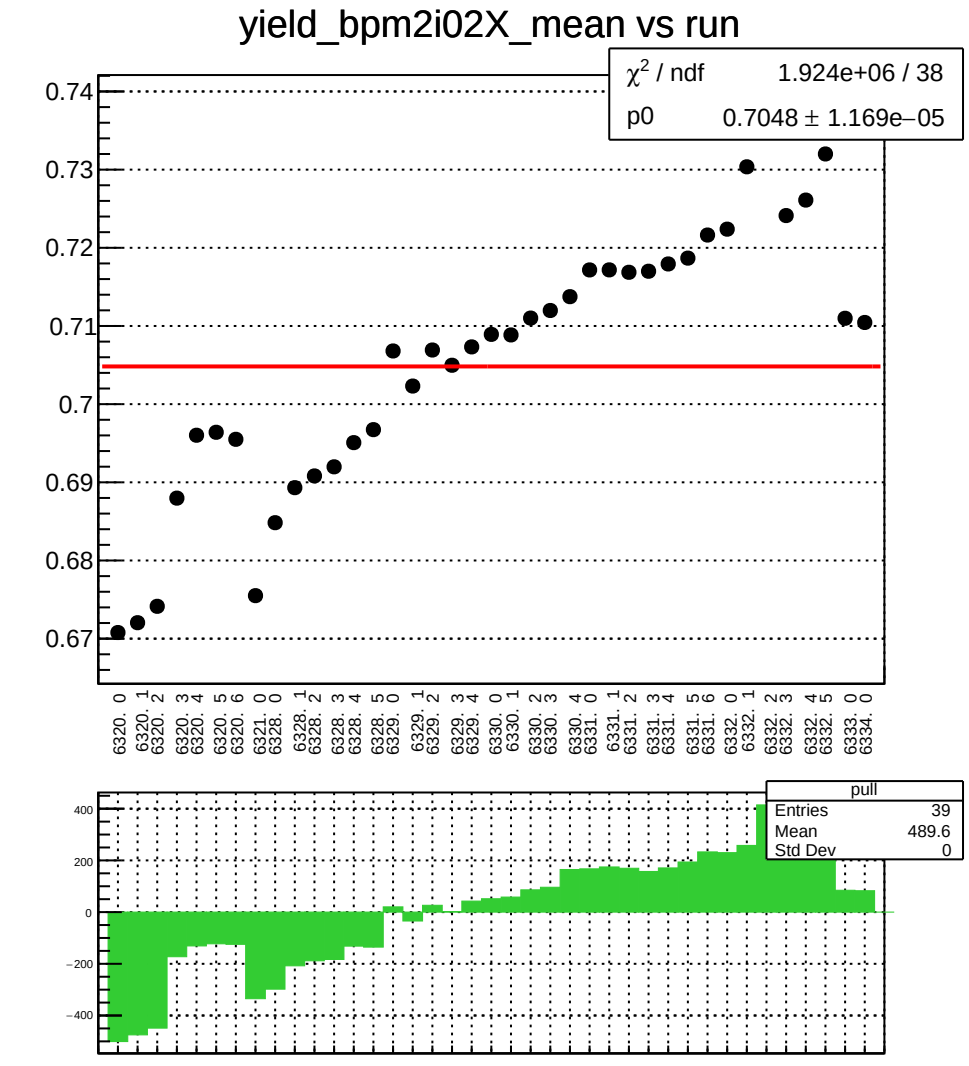

pull1D
Entries 39
Mean 4.71
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

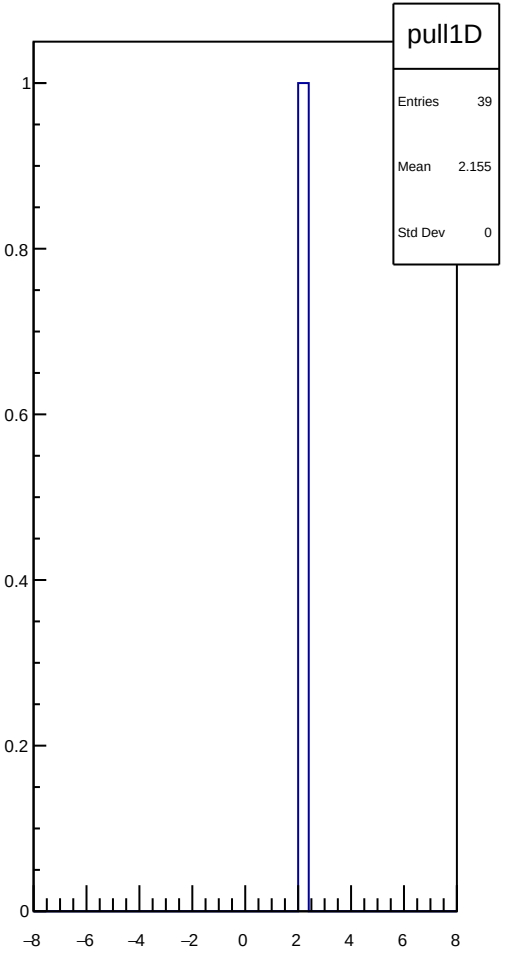

yield_bpm2i01X_rms vs run
χ² / ndf 9301 / 38
p0 0.00144 ± 1.664e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

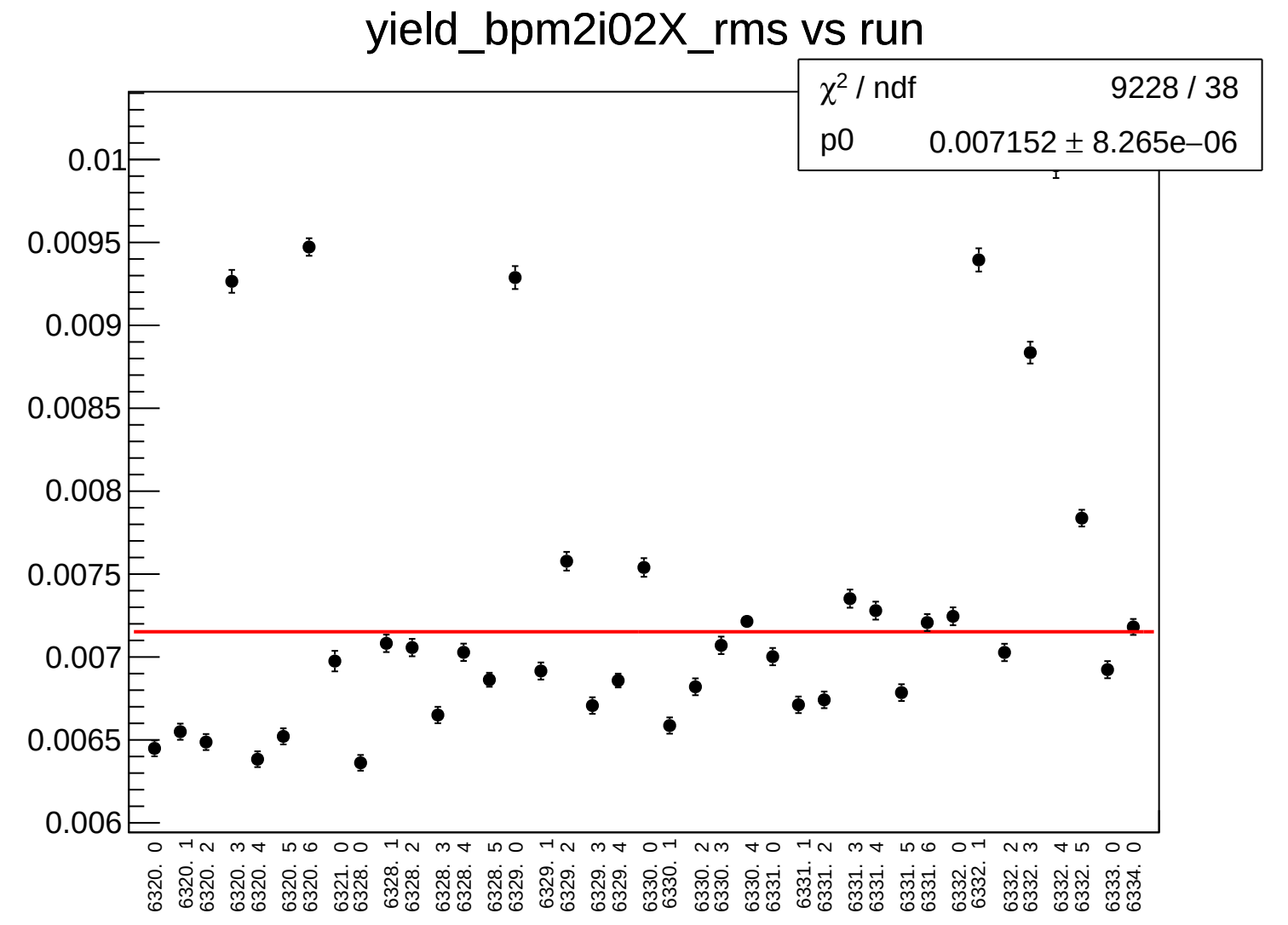

yield_bpm2i01Y_mean vs run
χ² / ndf 4.576e+06 / 38
p0 −3.988 ± 2.889e−06
−3.98
−3.985
−3.99
−3.995
−4
−4.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 4.681e+04
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

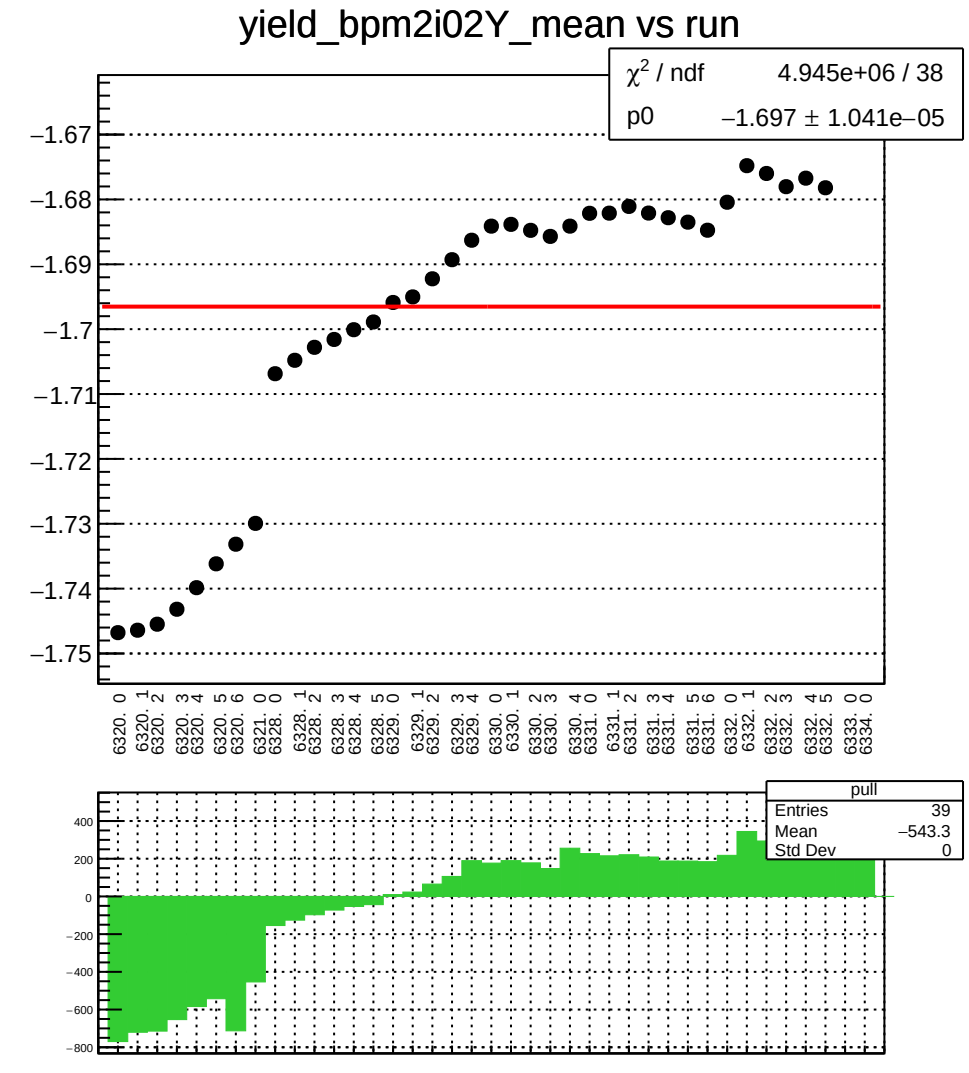

pull1D
Entries 39
Mean 1.682
Std Dev 3.401
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

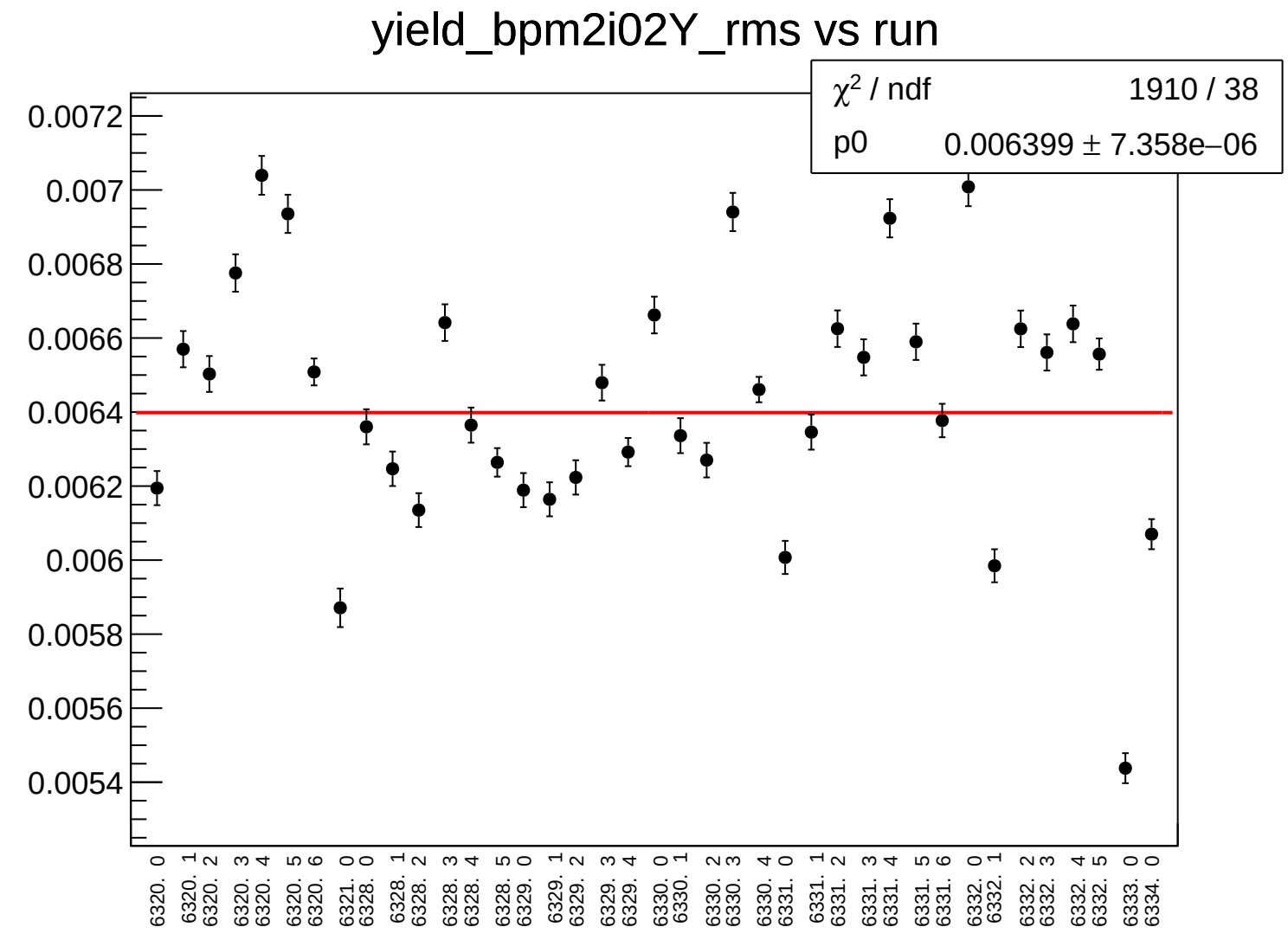

yield_bpm2i01Y_rms vs run
χ² / ndf 7.271e+04 / 38
p0 0.001691 ± 2.043e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

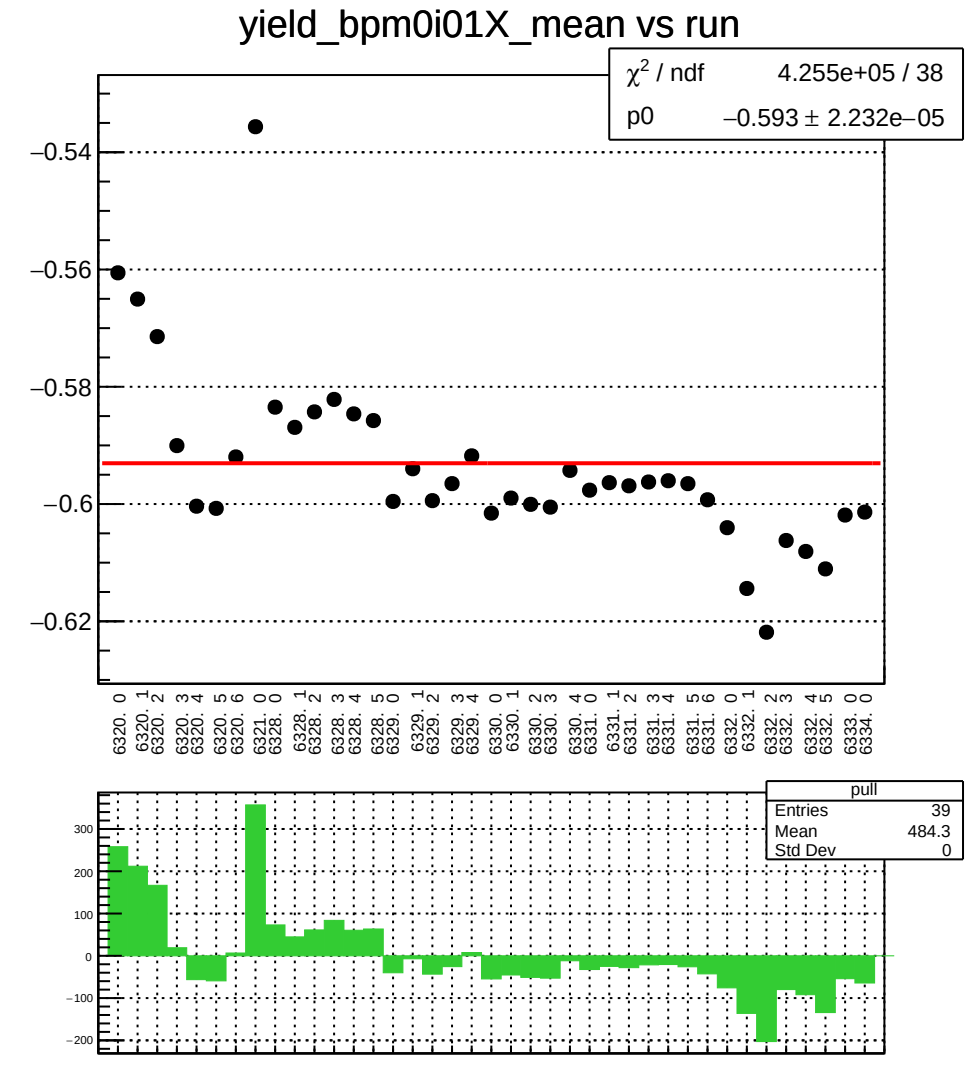

yield_bpm2i02X_mean vs run
χ² / ndf 1.924e+06 / 38
p0 0.7048 ± 1.169e−05
0.74
0.73
0.72
0.71
0.7
0.69
0.68
0.67
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 489.6
Std Dev 0
400
200
0
−200
−400

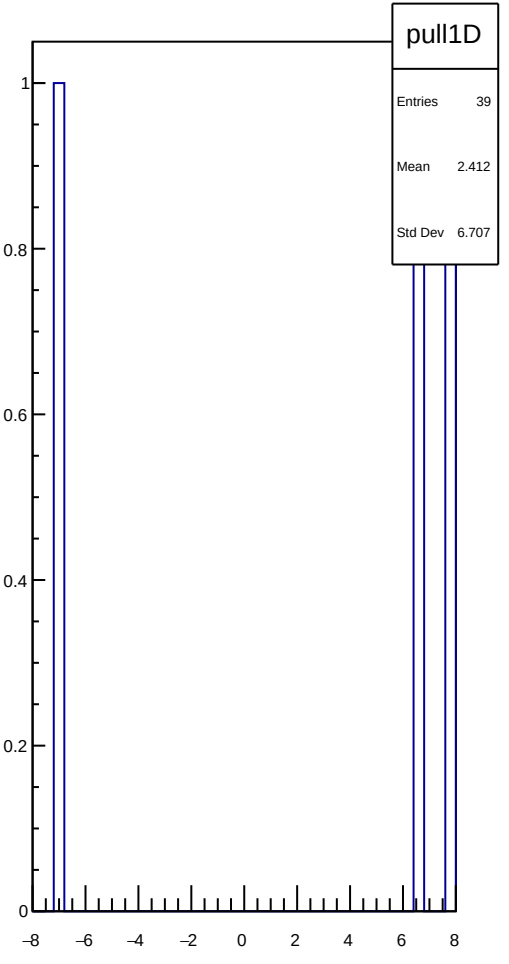

pull1D
Entries 39
Mean 2.155
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

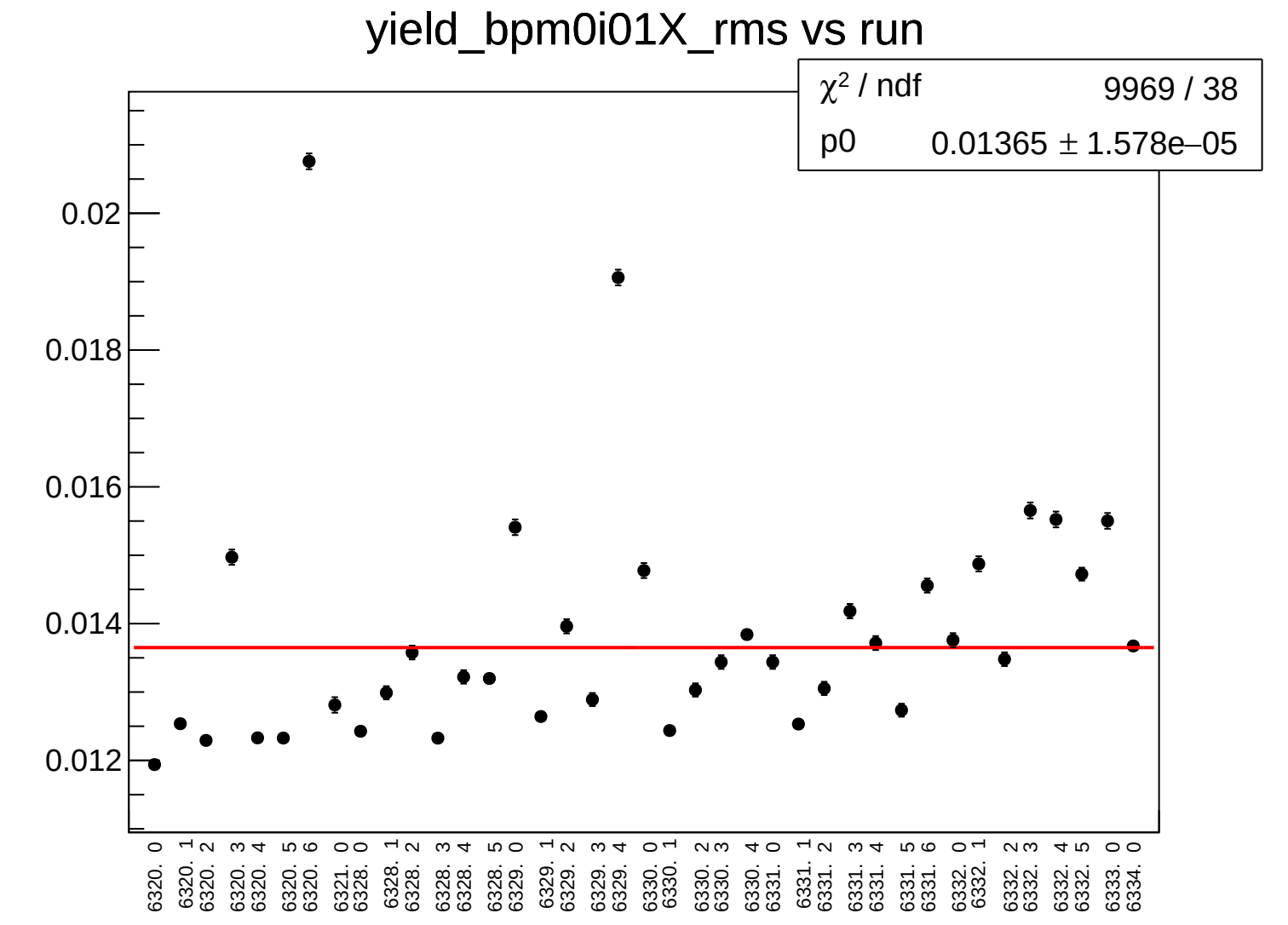

yield_bpm2i02X_rms vs run
χ² / ndf 9228 / 38
p0 0.007152 ± 8.265e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

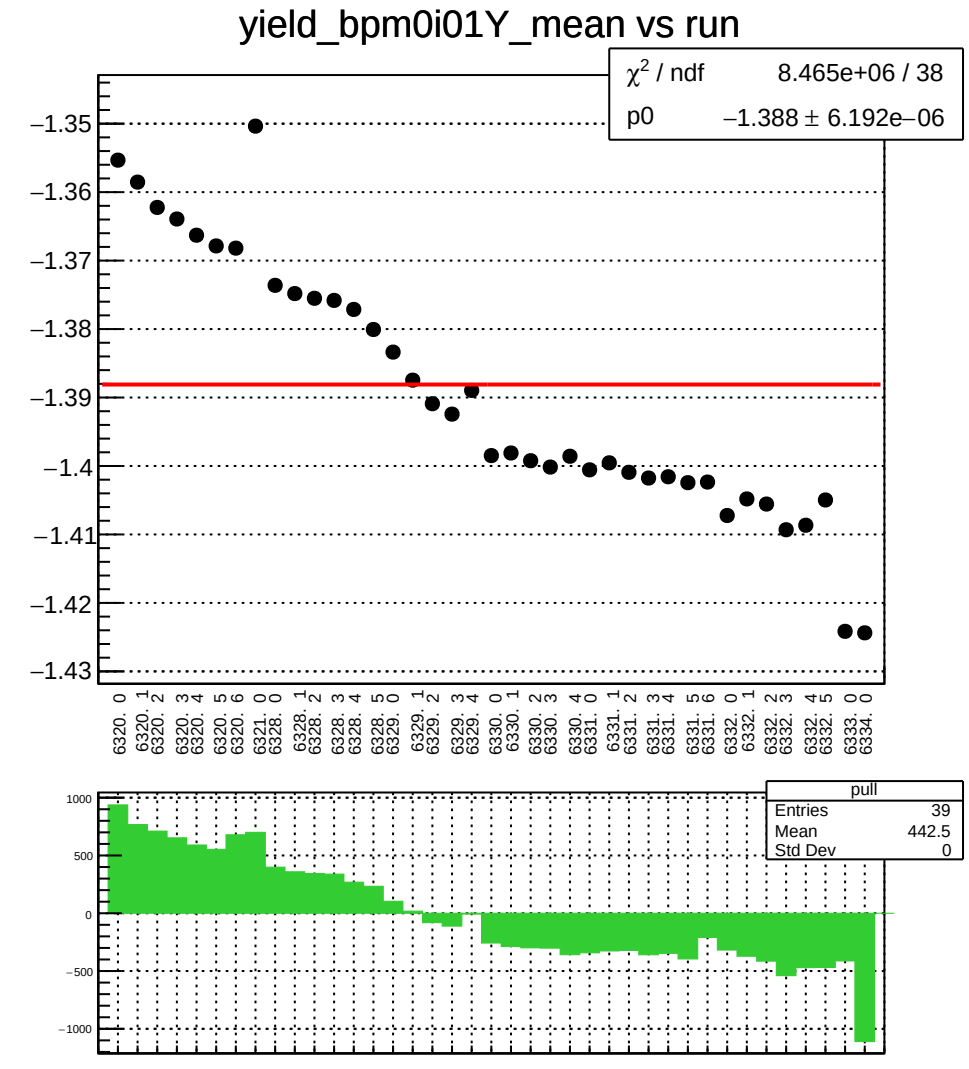

yield_bpm2i02Y_mean vs run
χ² / ndf 4.945e+06 / 38
p0 −1.697 ± 1.041e−05
−1.67
−1.68
−1.69
−1.7
−1.71
−1.72
−1.73
−1.74
−1.75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −543.3
Std Dev 0
400
200
0
−200
−400
−600
−800
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

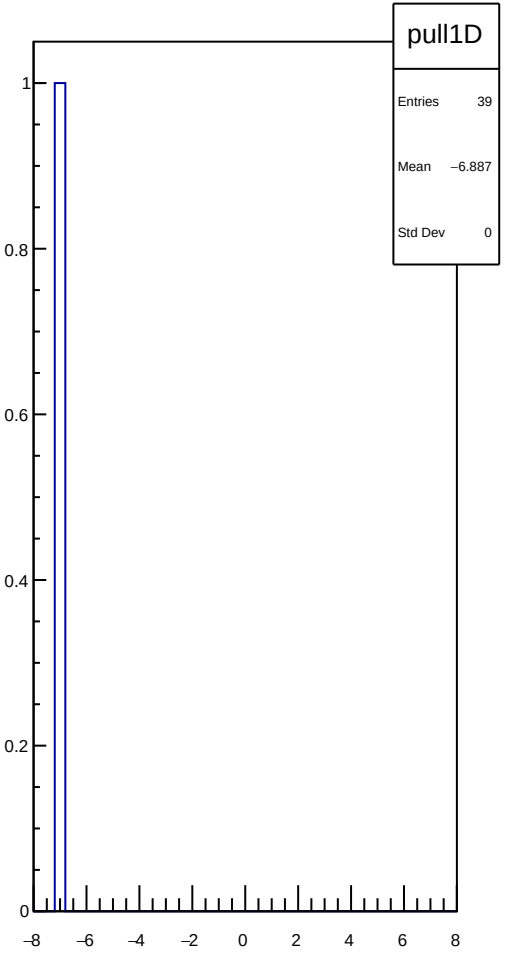

yield_bpm2i02Y_rms vs run
χ² / ndf 1910 / 38
p0 0.006399 ± 7.358e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

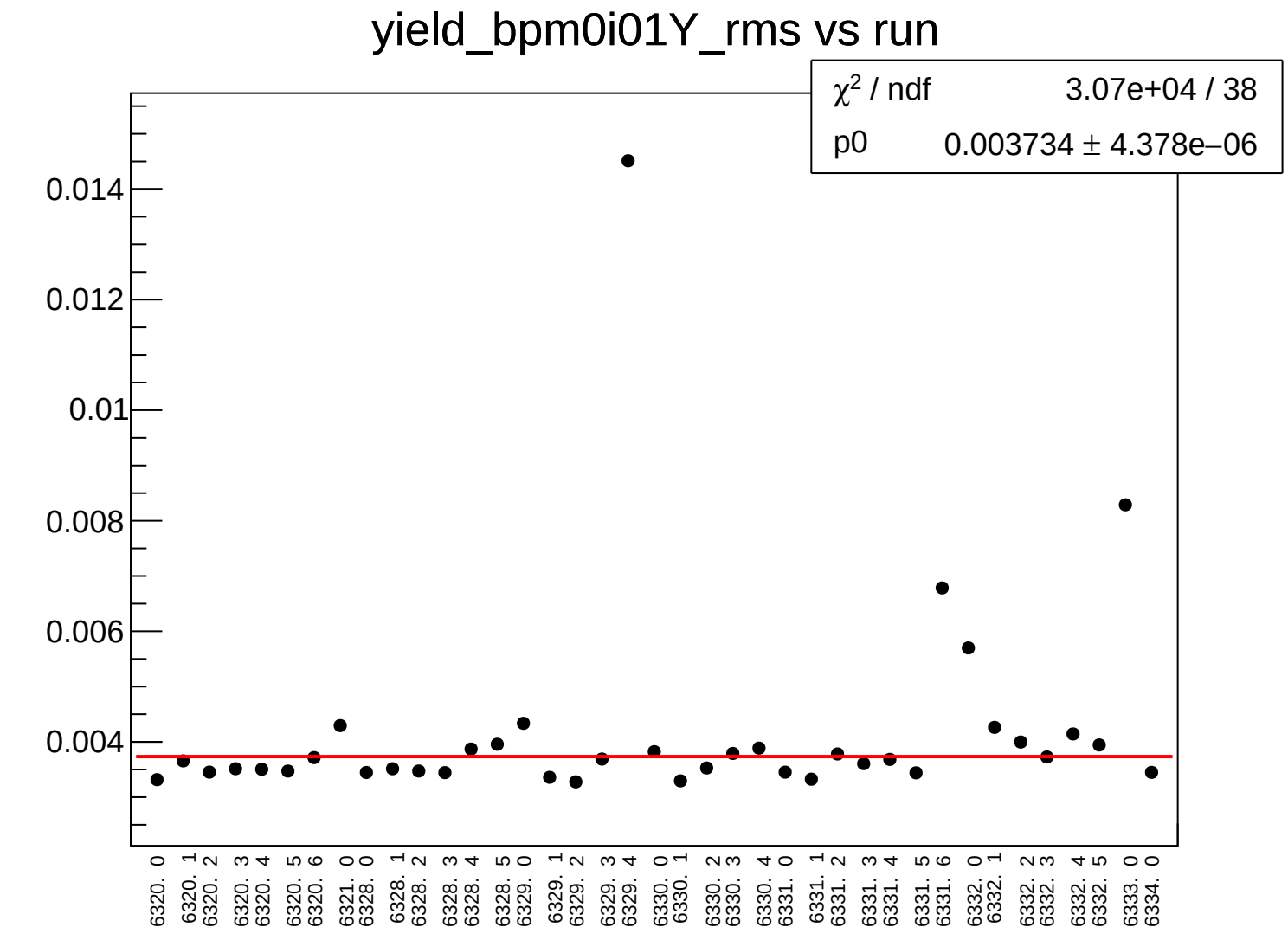

yield_bpm0i01X_mean vs run
χ² / ndf 4.255e+05 / 38
p0 −0.593 ± 2.232e−05
−0.54
−0.56
−0.58
−0.6
−0.62
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 484.3
Std Dev 0
300
200
100
0
−100
−200

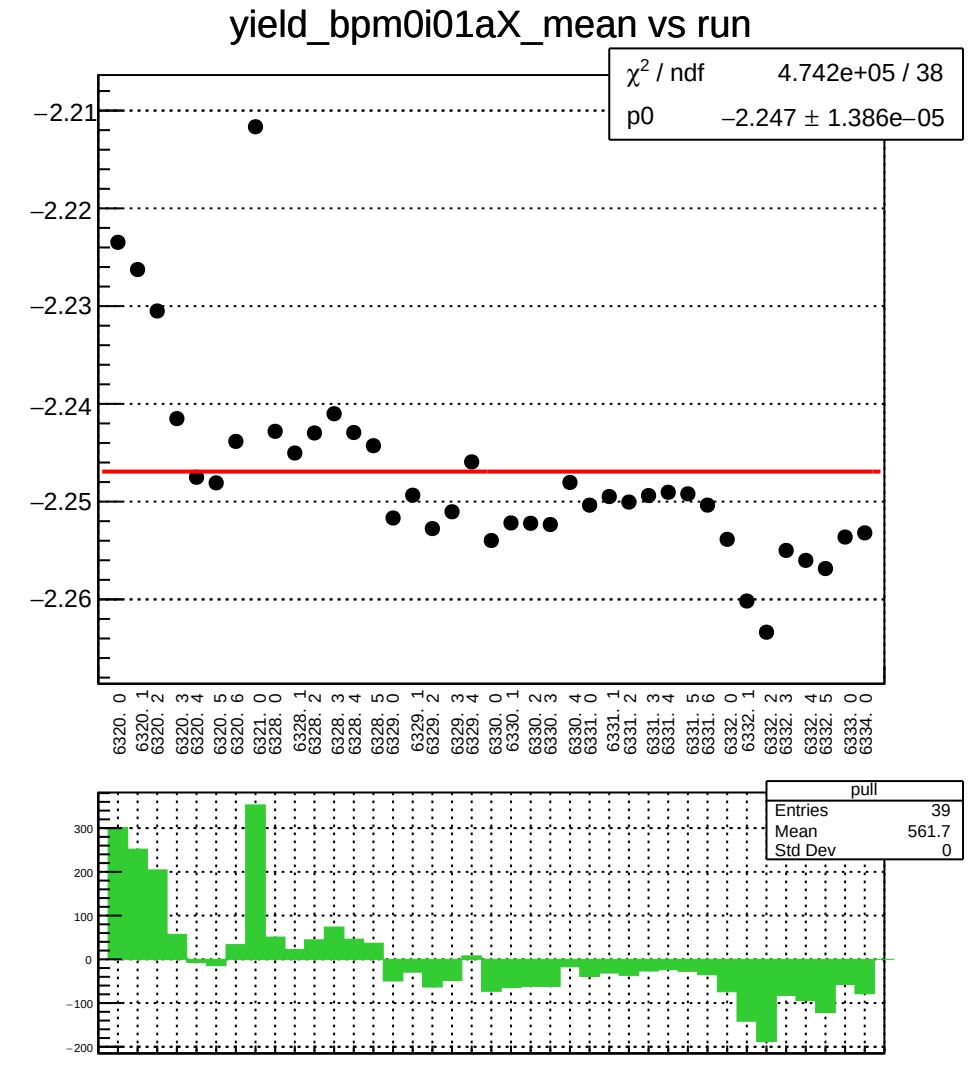

pull1D
Entries 39
Mean 2.412
Std Dev 6.707
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

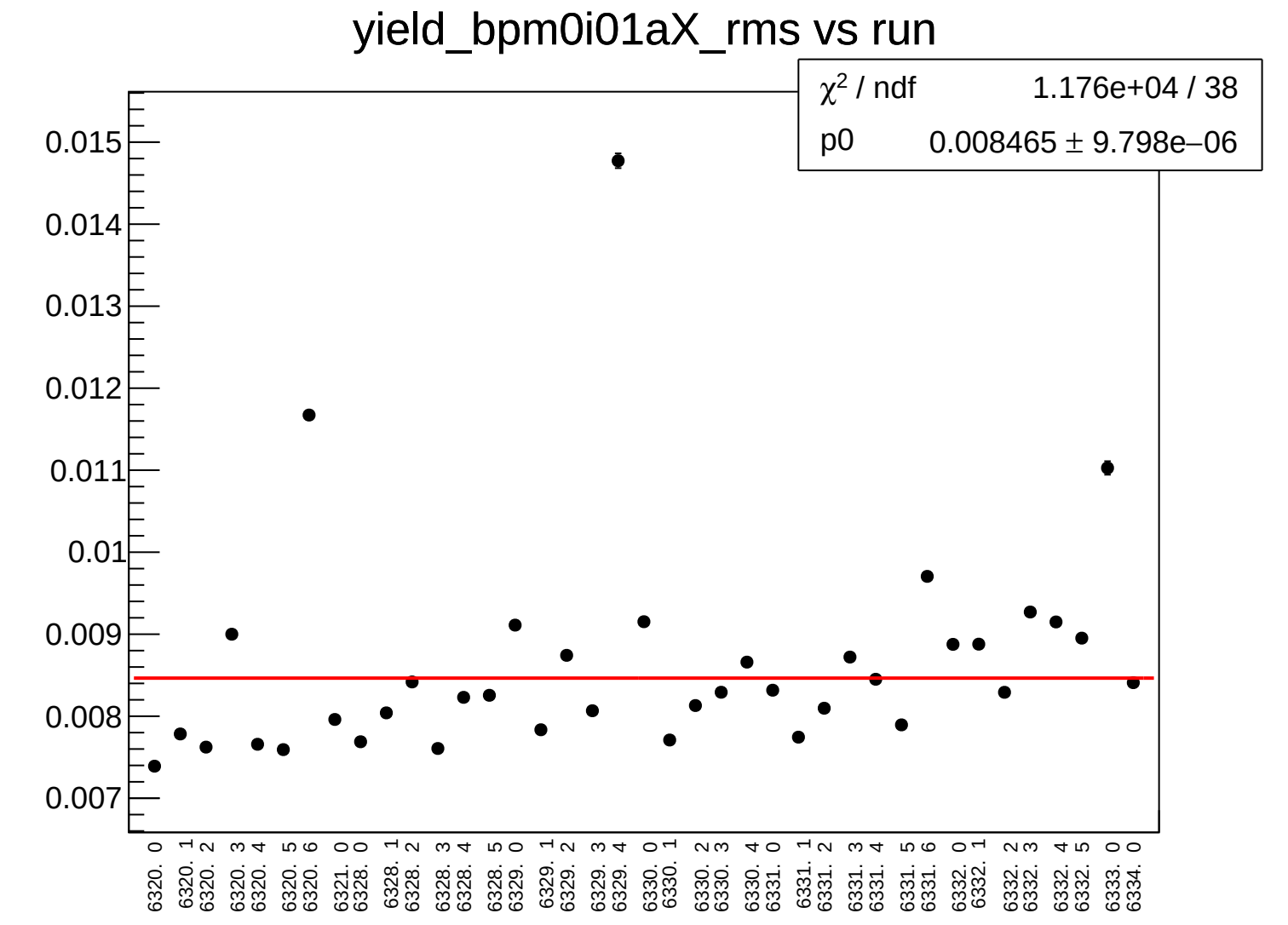

yield_bpm0i01X_rms vs run
χ² / ndf 9969 / 38
p0 0.01365 ± 1.578e–05
0.02
0.018
0.016
0.014
0.012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

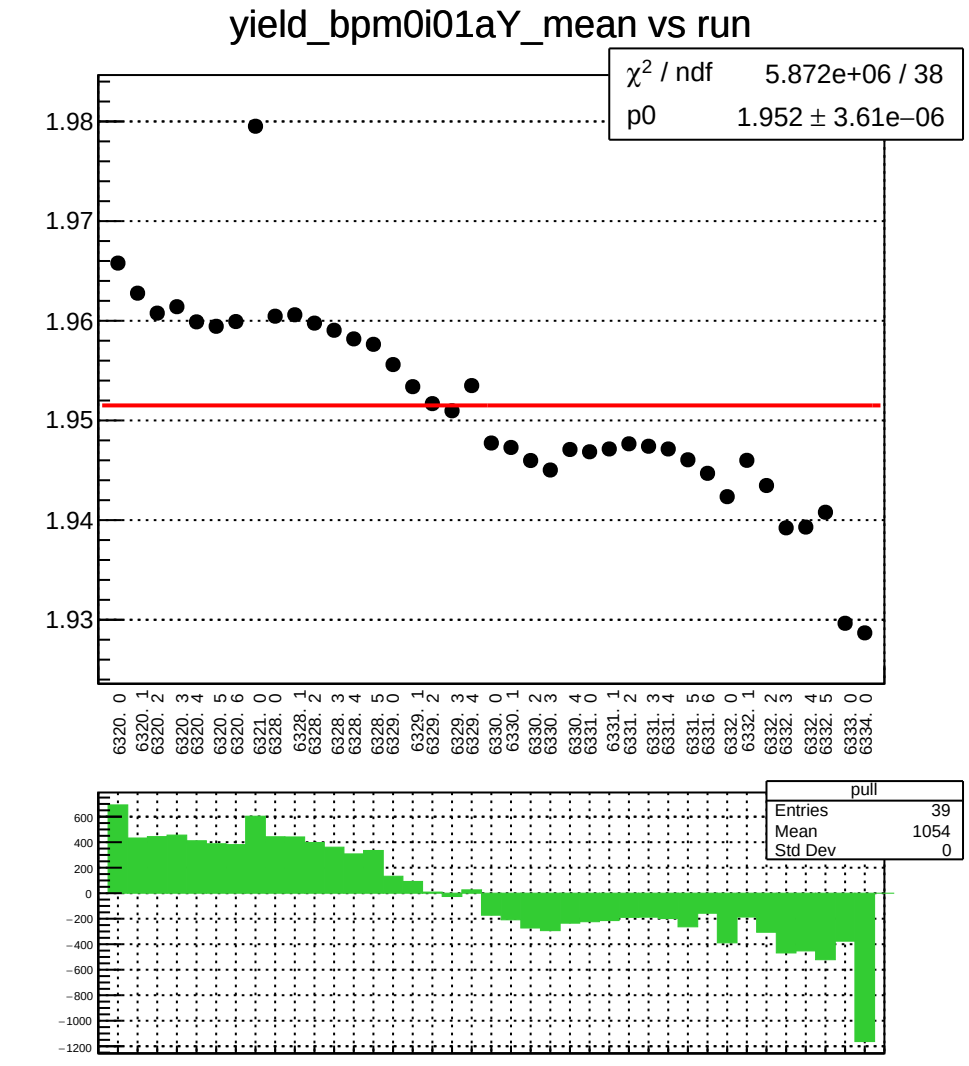

yield_bpm0i01Y_mean vs run
χ² / ndf 8.465e+06 / 38
p0 −1.388 ± 6.192e−06
−1.35
−1.36
−1.37
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 442.5
Std Dev 0
1000
500
0
−500
−1000

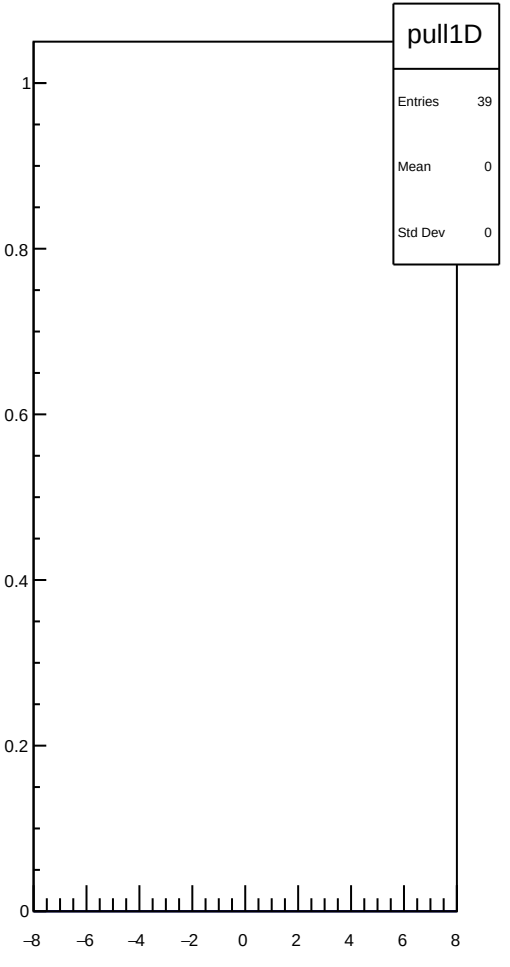

pull1D
Entries 39
Mean −6.887
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

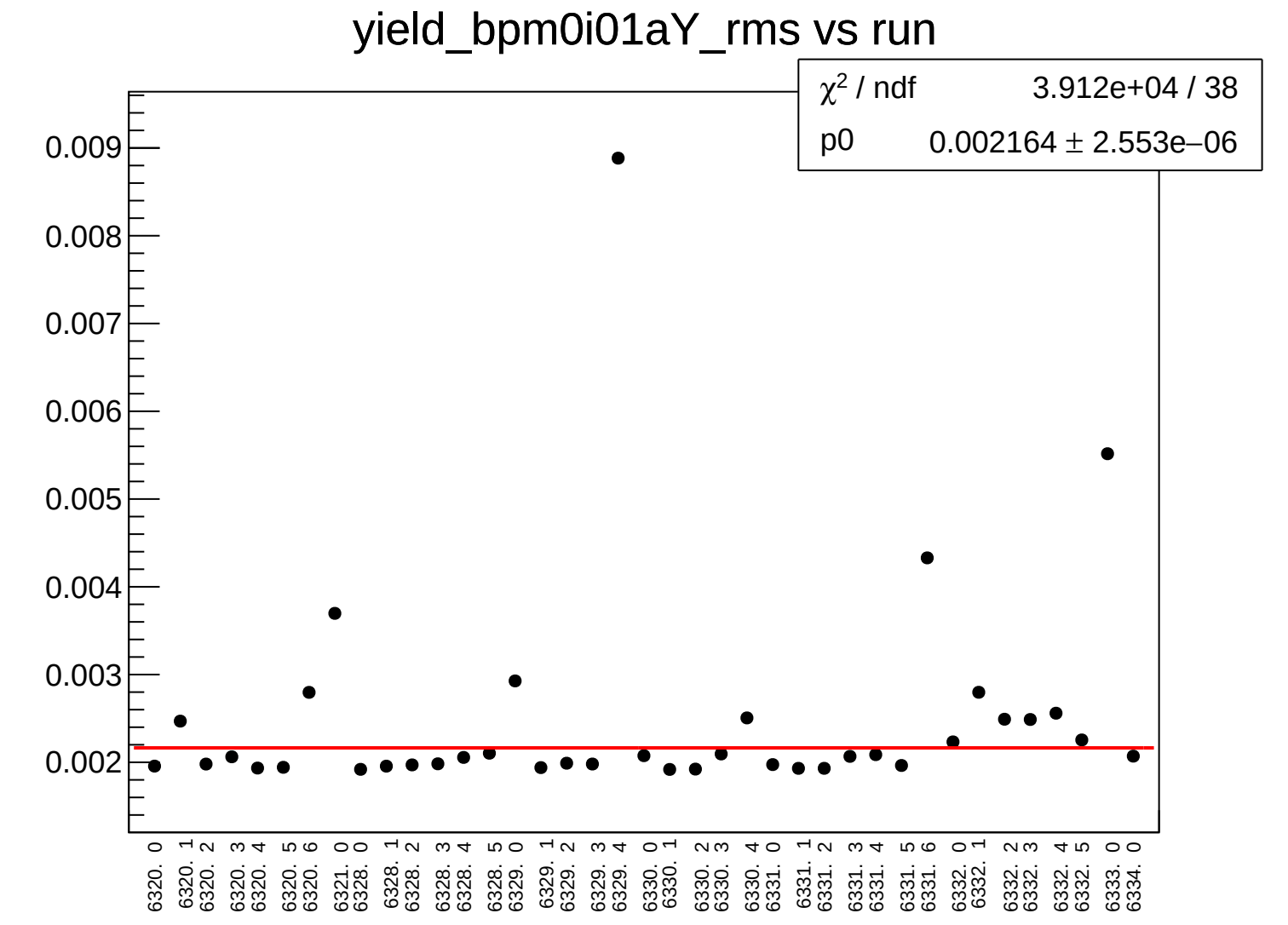

yield_bpm0i01Y_rms vs run
χ² / ndf 3.07e+04 / 38
p0 0.003734 ± 4.378e−06
0.014
0.012
0.01
0.008
0.006
0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

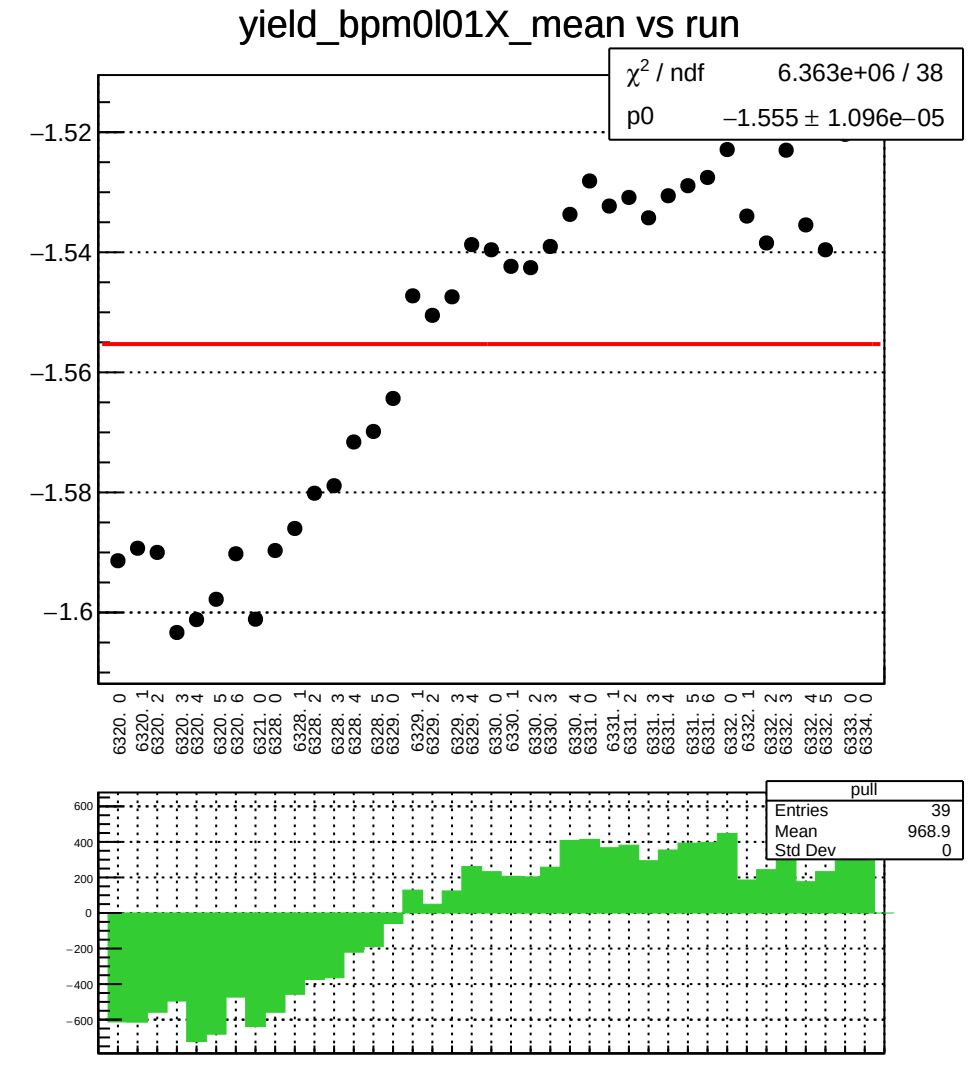

yield_bpm0i01aX_mean vs run
χ² / ndf 4.742e+05 / 38
p0 −2.247 ± 1.386e−05
−2.21
−2.22
−2.23
−2.24
−2.25
−2.26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 561.7
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 39
Mean 0.3104
Std Dev 7.517
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

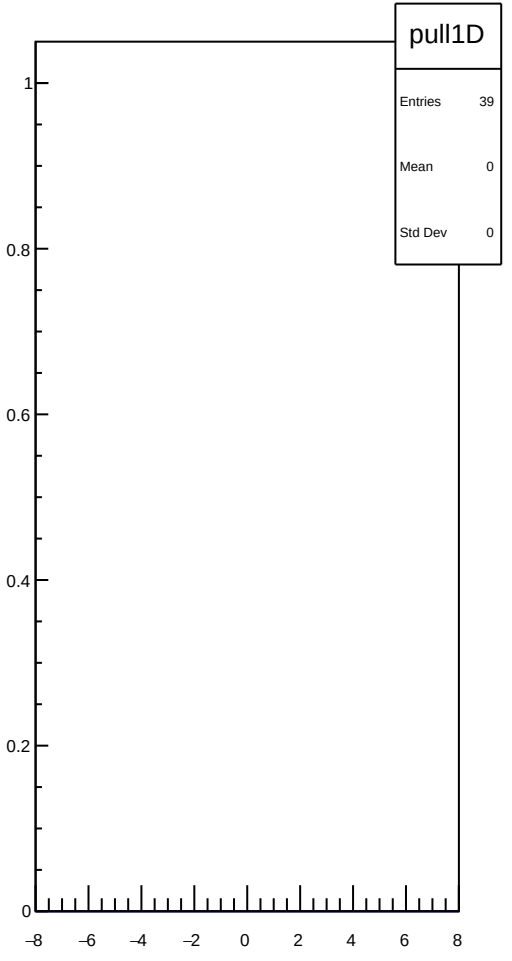

yield_bpm0i01aX_rms vs run
χ² / ndf 1.176e+04 / 38
p0 0.008465 ± 9.798e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

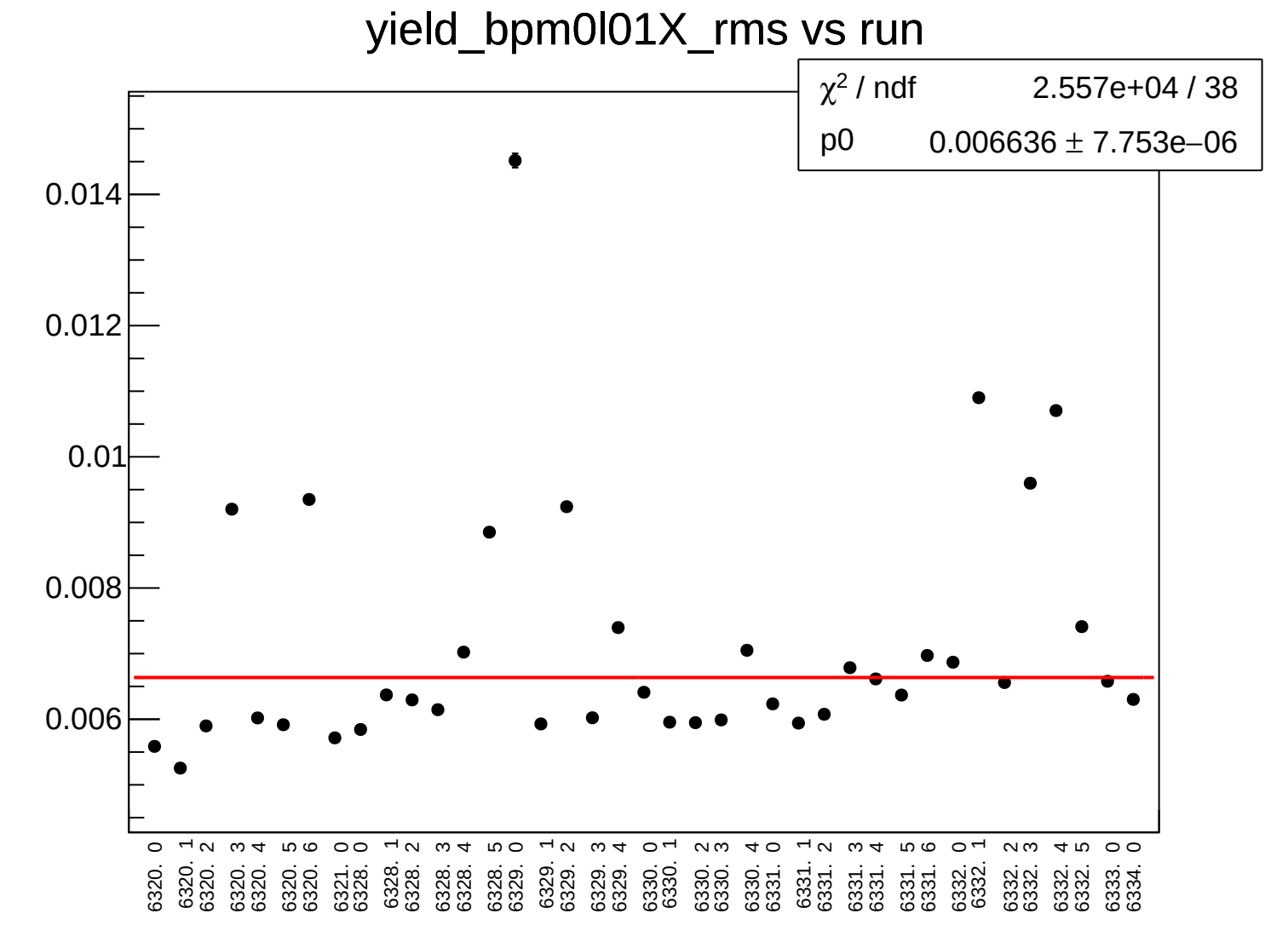

yield_bpm0i01aY_mean vs run
χ² / ndf 5.872e+06 / 38
p0 1.952 ± 3.61e−06
1.98
1.97
1.96
1.95
1.94
1.93
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1054
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

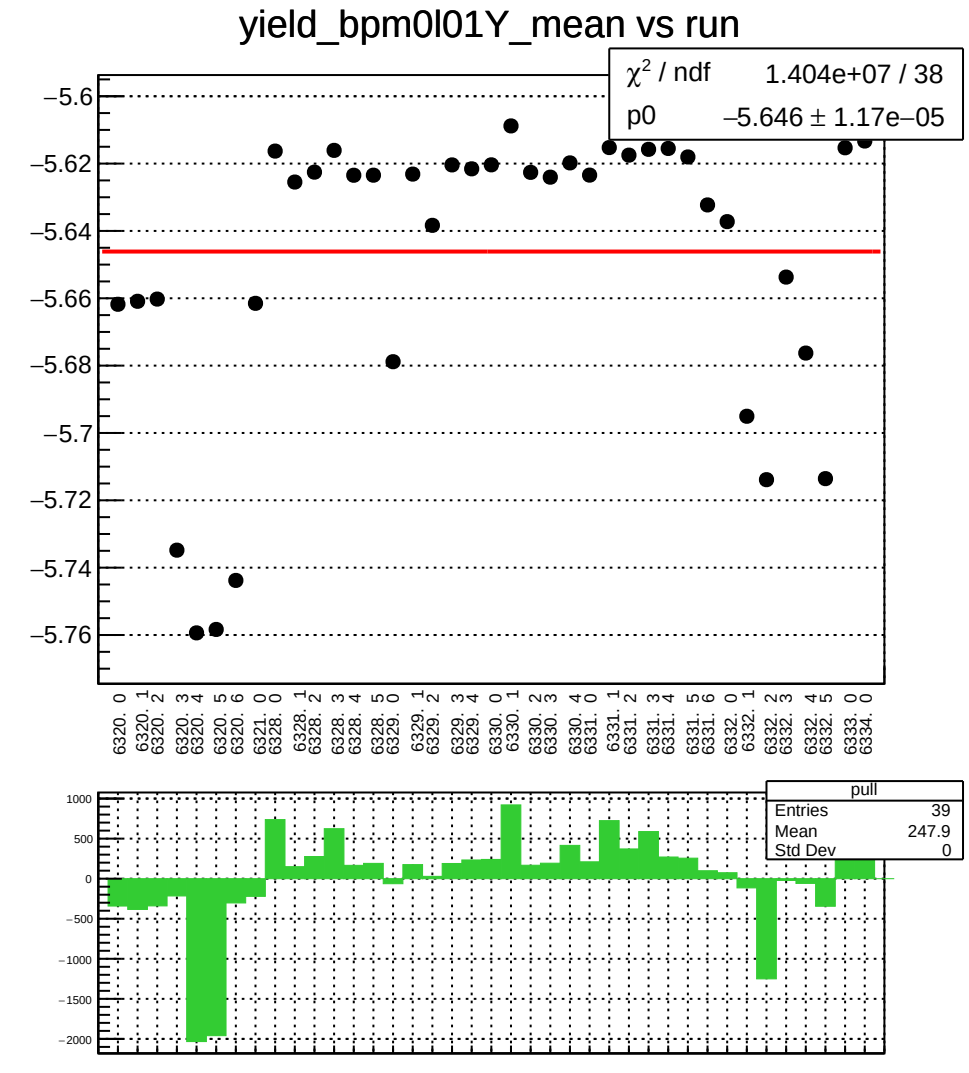

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

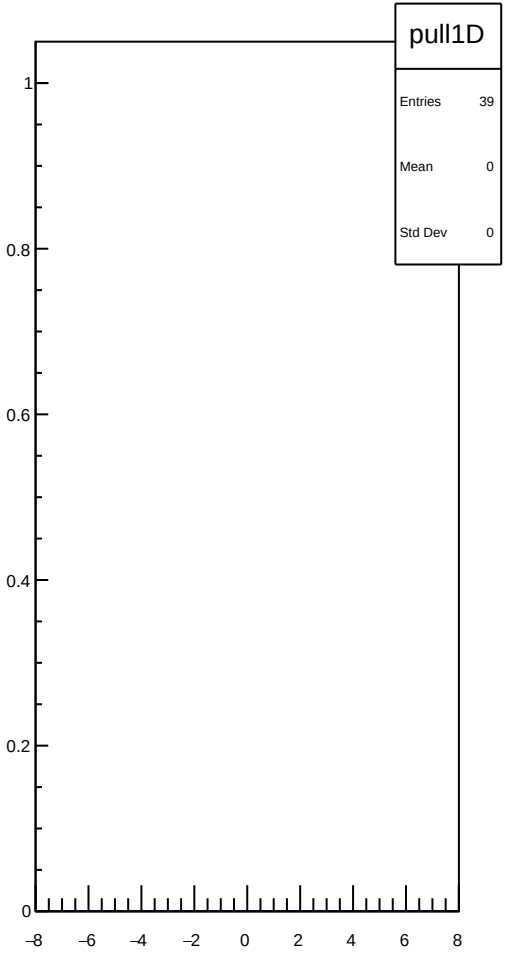

yield_bpm0i01aY_rms vs run
χ² / ndf 3.912e+04 / 38
p0 0.002164 ± 2.553e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

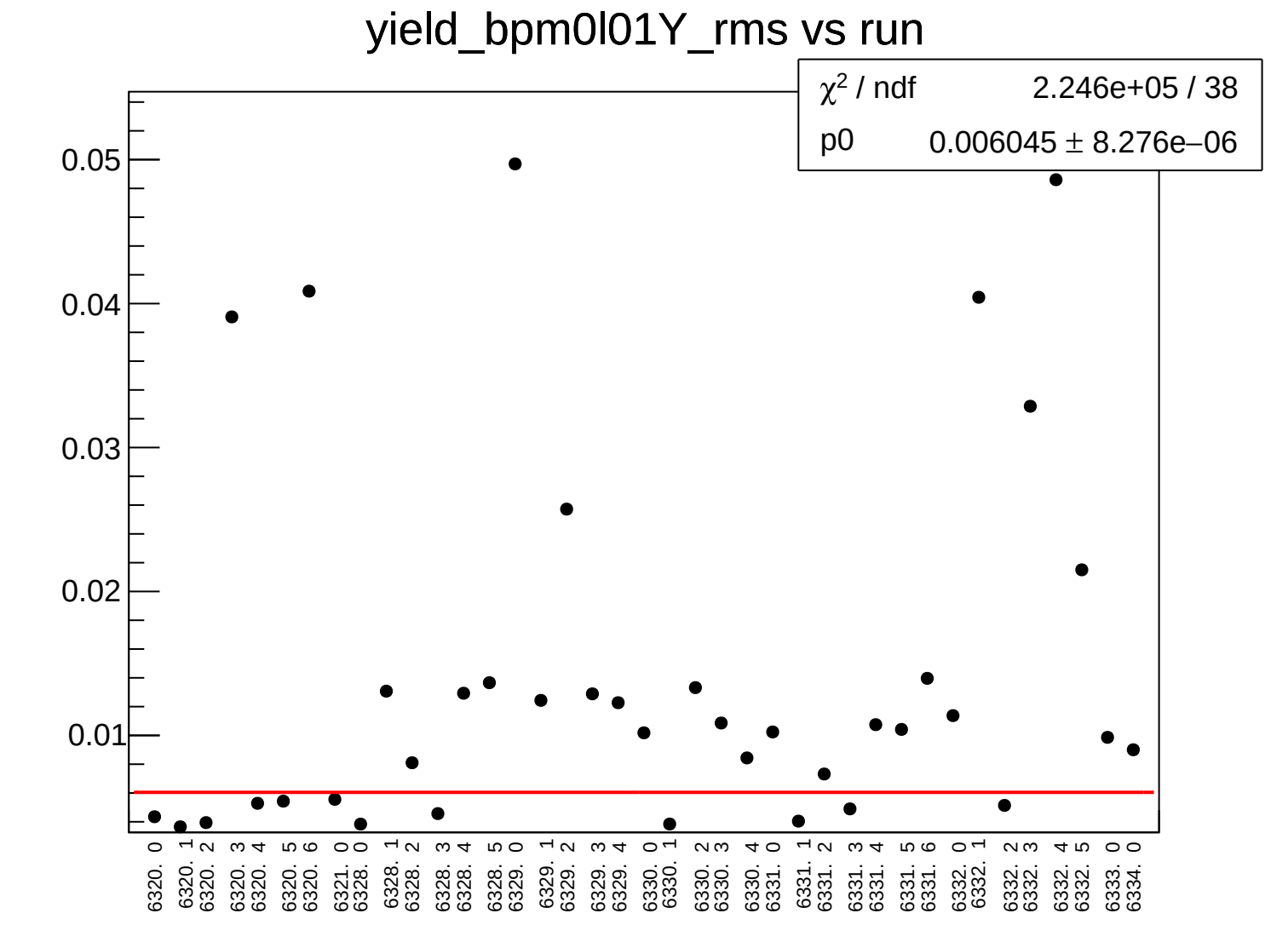

yield_bpm0l01X_mean vs run
χ² / ndf 6.363e+06 / 38
p0 −1.555 ± 1.096e−05
−1.52
−1.54
−1.56
−1.58
−1.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 968.9
Std Dev 0
600
400
200
0
−200
−400
−600

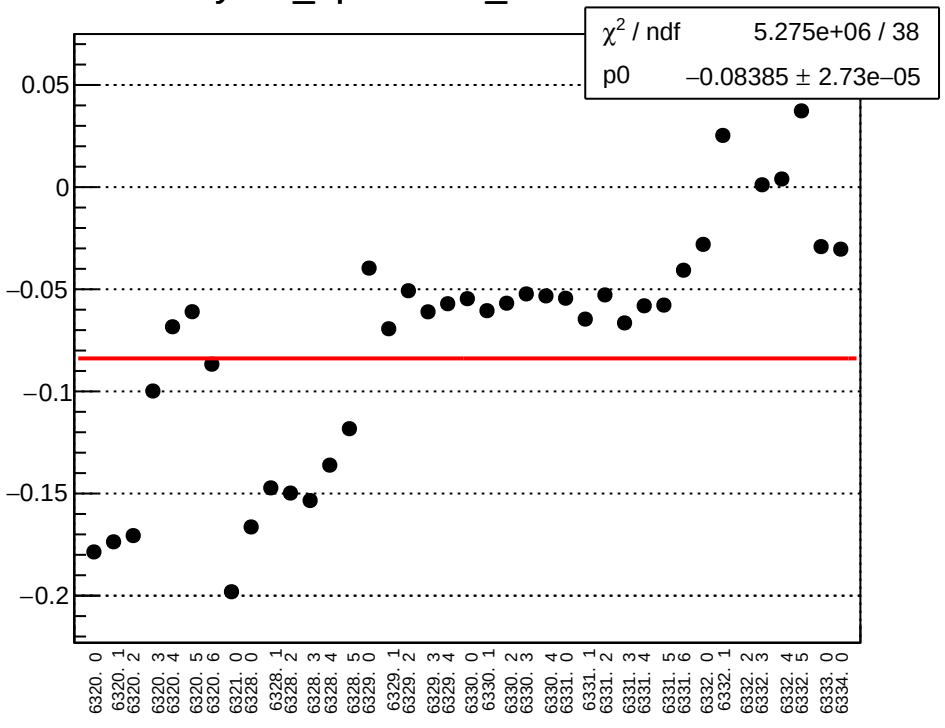

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

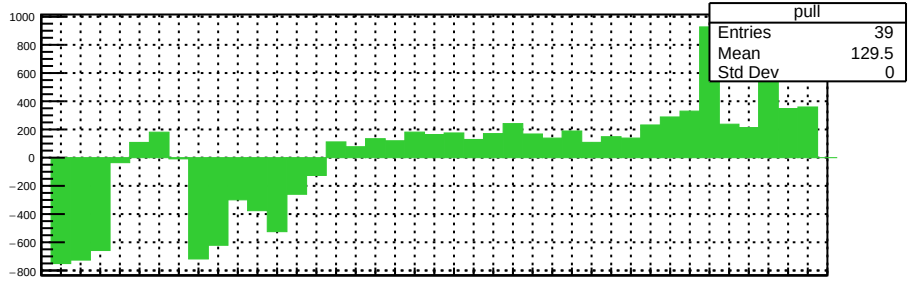

yield_bpm0l01X_rms vs run
χ² / ndf 2.557e+04 / 38
p0 0.006636 ± 7.753e−06
0.014
0.012
0.01
0.008
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

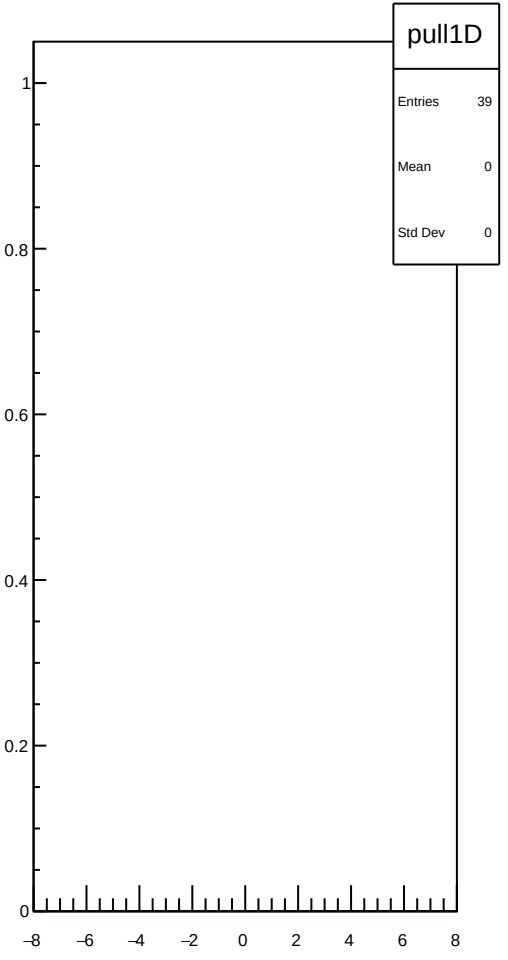

yield_bpm0l01Y_mean vs run
χ² / ndf 1.404e+07 / 38
p0 −5.646 ± 1.17e−05
−5.6
−5.62
−5.64
−5.66
−5.68
−5.7
−5.72
−5.74
−5.76
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 247.9
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

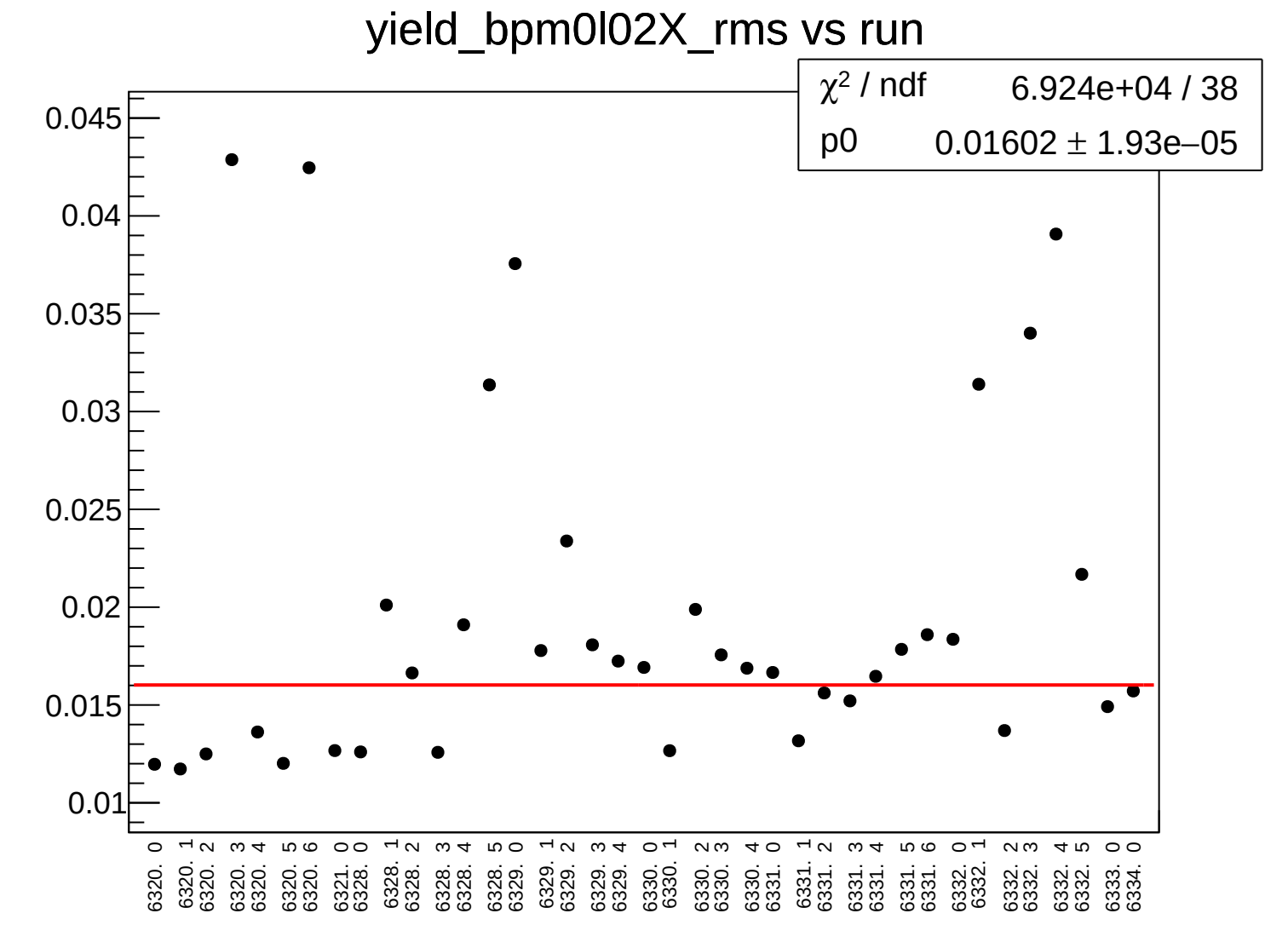

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

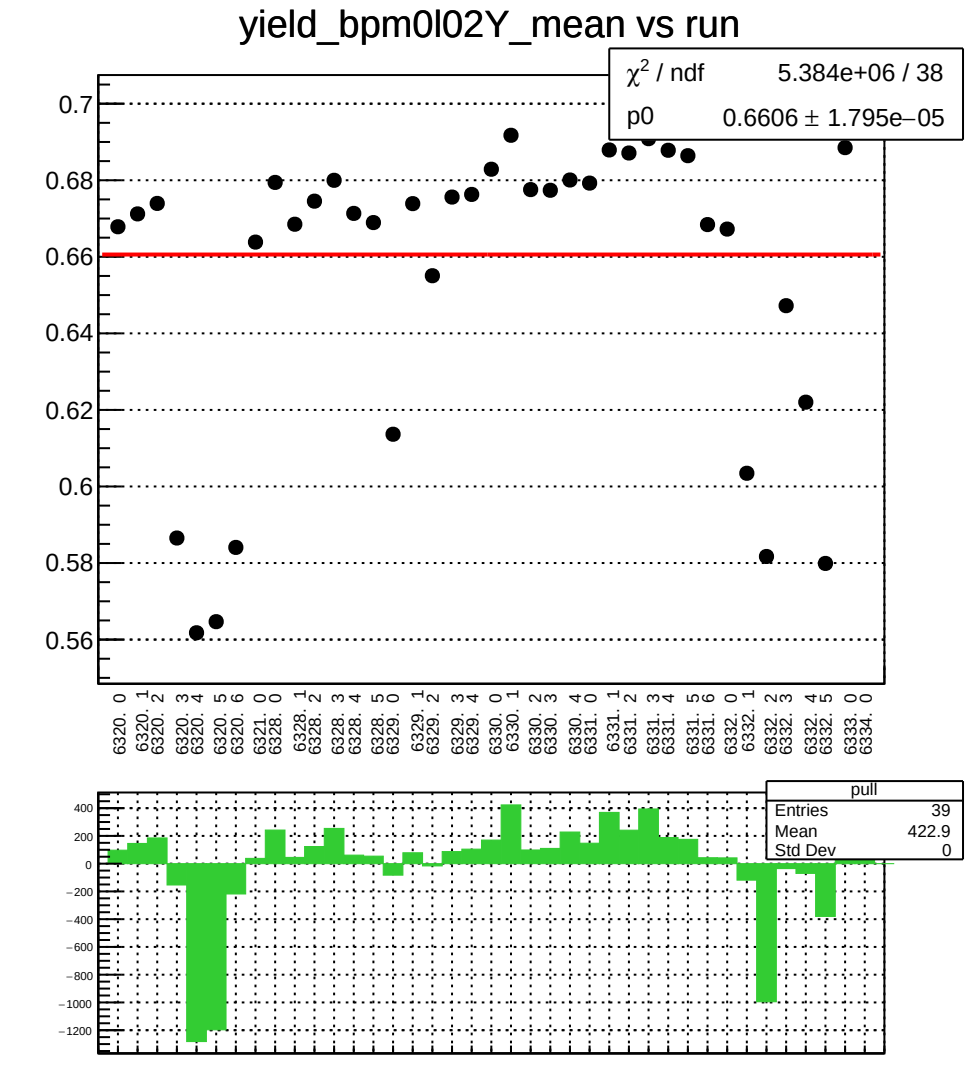

yield_bpm0l01Y_rms vs run
χ² / ndf 2.246e+05 / 38
p0 0.006045 ± 8.276e−06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

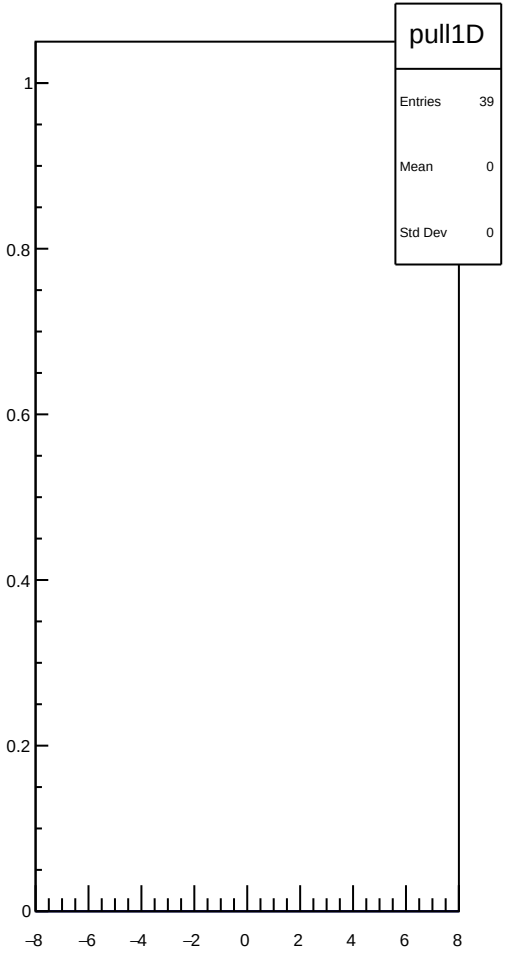

yield_bpm0l02X_mean vs run
χ² / ndf 5.275e+06 / 38
p0 −0.08385 ± 2.73e−05
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

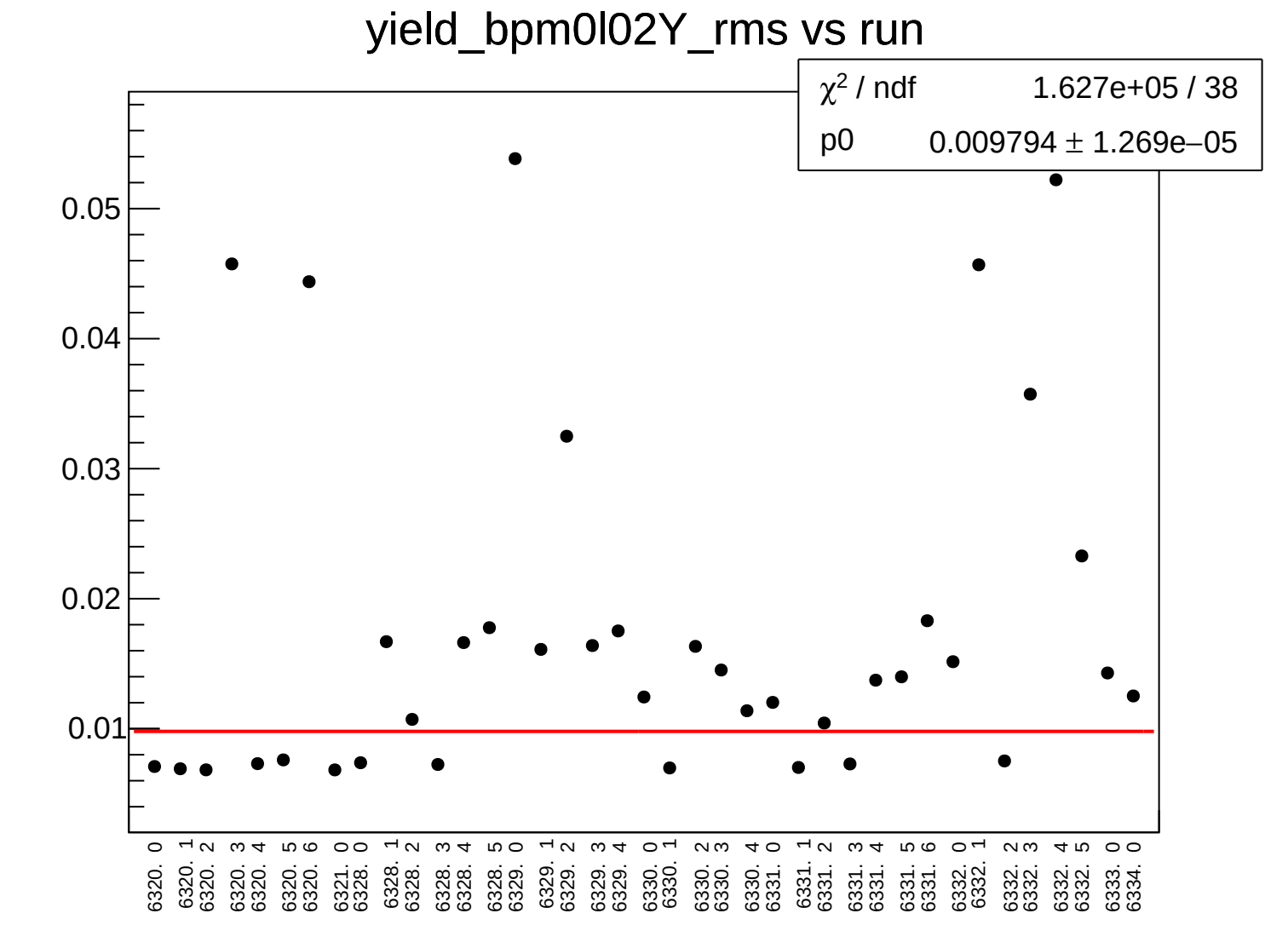

pull
Entries 39
Mean 129.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

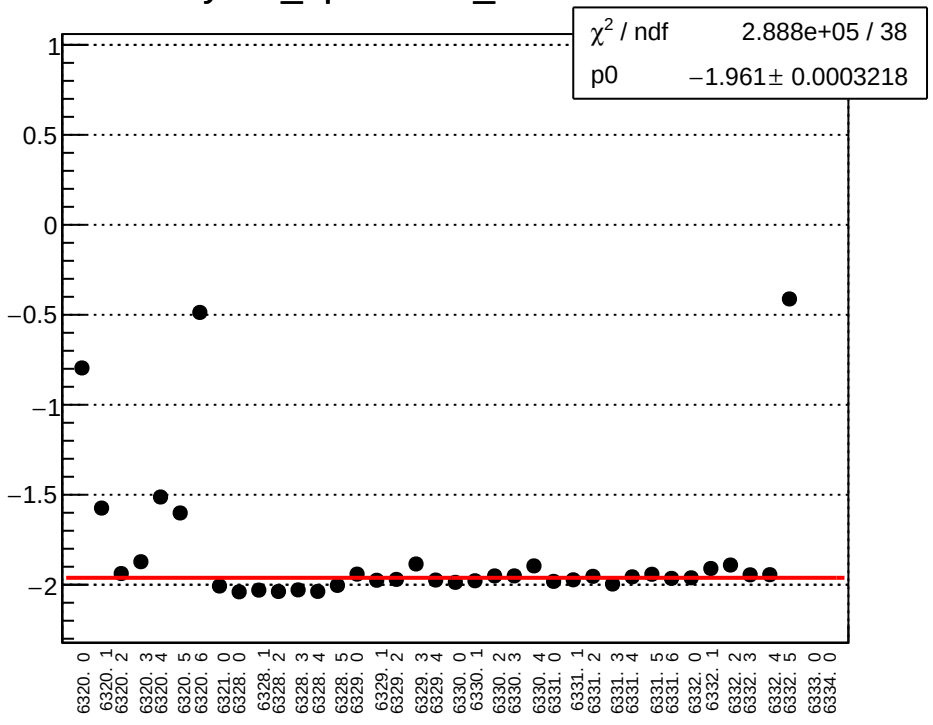

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

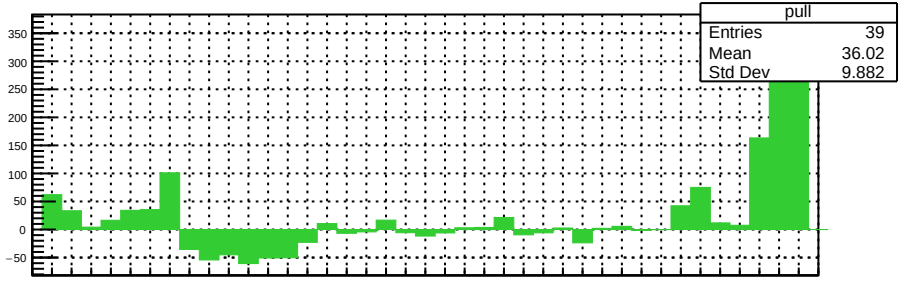

yield_bpm0l02X_rms vs run
χ² / ndf 6.924e+04 / 38
p0 0.01602 ± 1.93e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

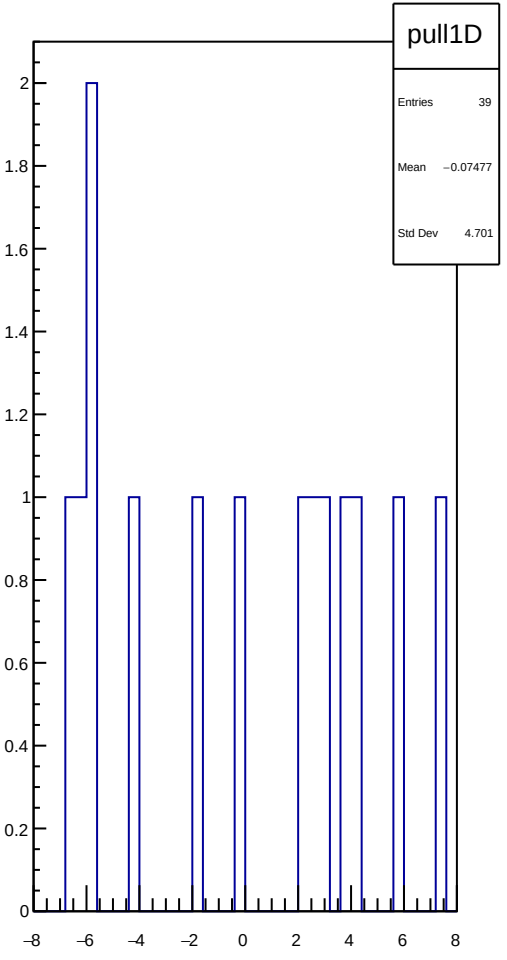

yield_bpm0l02Y_mean vs run
χ² / ndf 5.384e+06 / 38
p0 0.6606 ± 1.795e−05
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 422.9
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

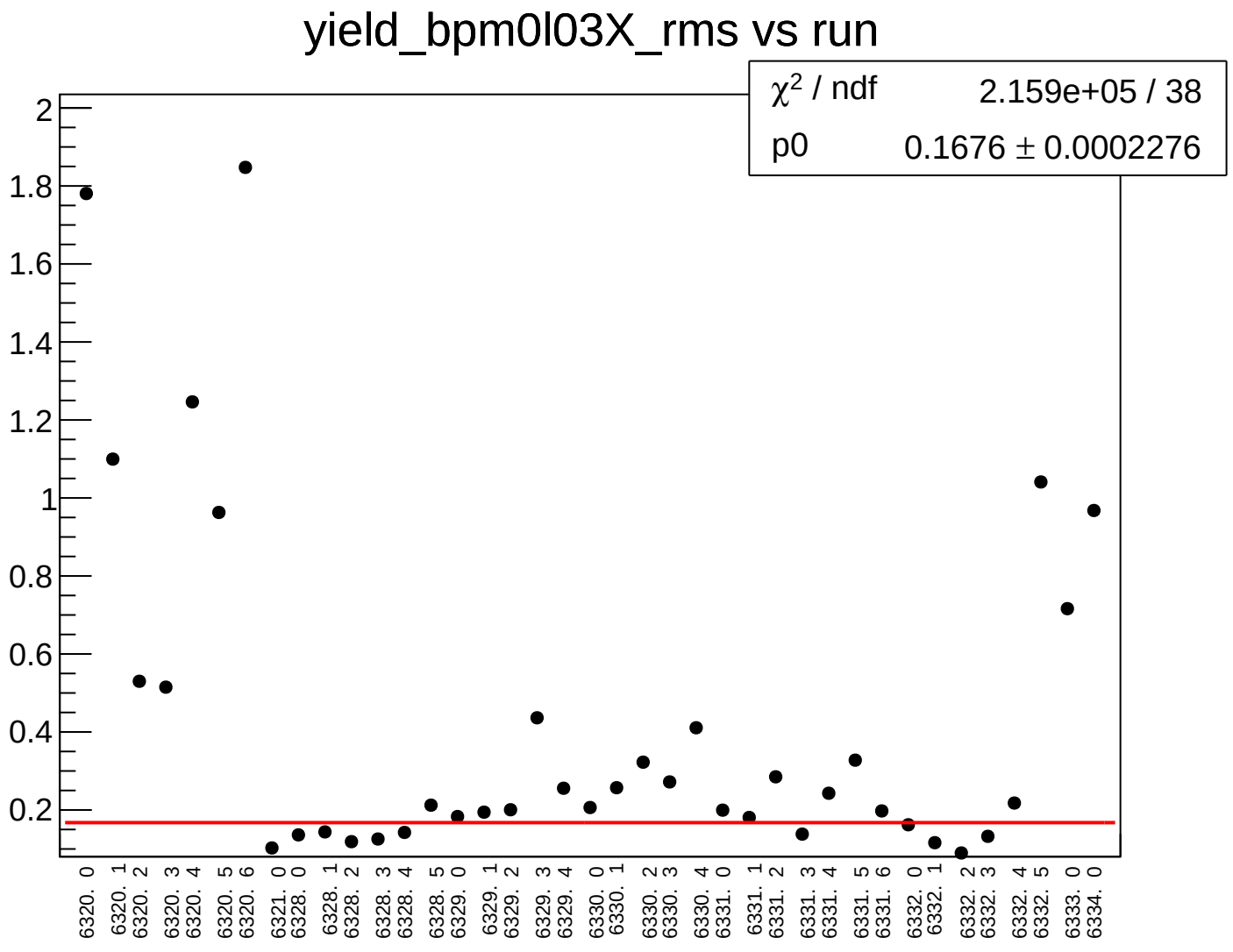

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

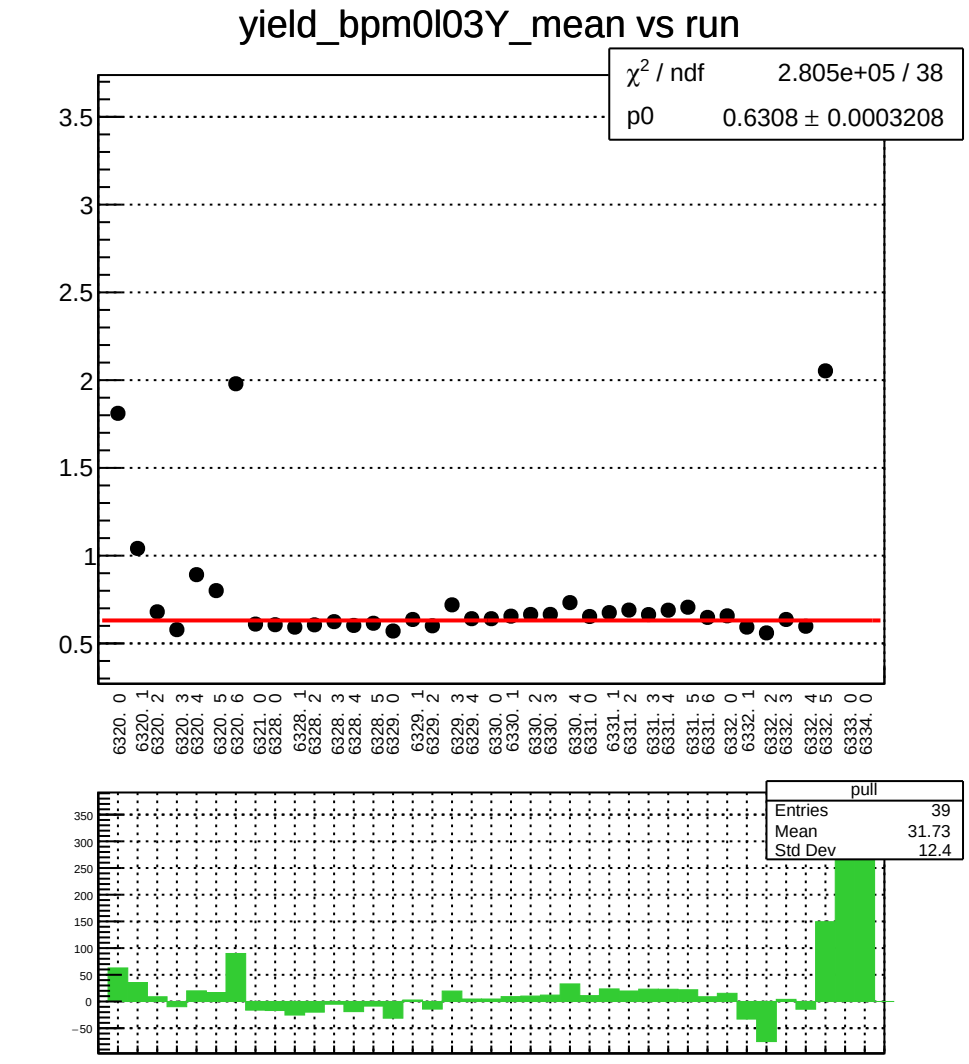

yield_bpm0l02Y_rms vs run
χ² / ndf 1.627e+05 / 38
p0 0.009794 ± 1.269e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

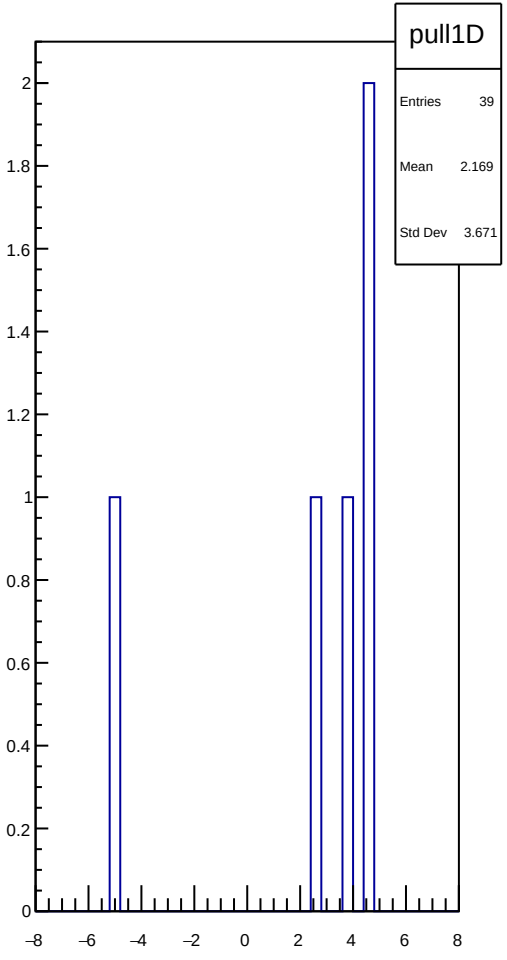

yield_bpm0l03X_mean vs run
χ² / ndf 2.888e+05 / 38
p0 −1.961± 0.0003218
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

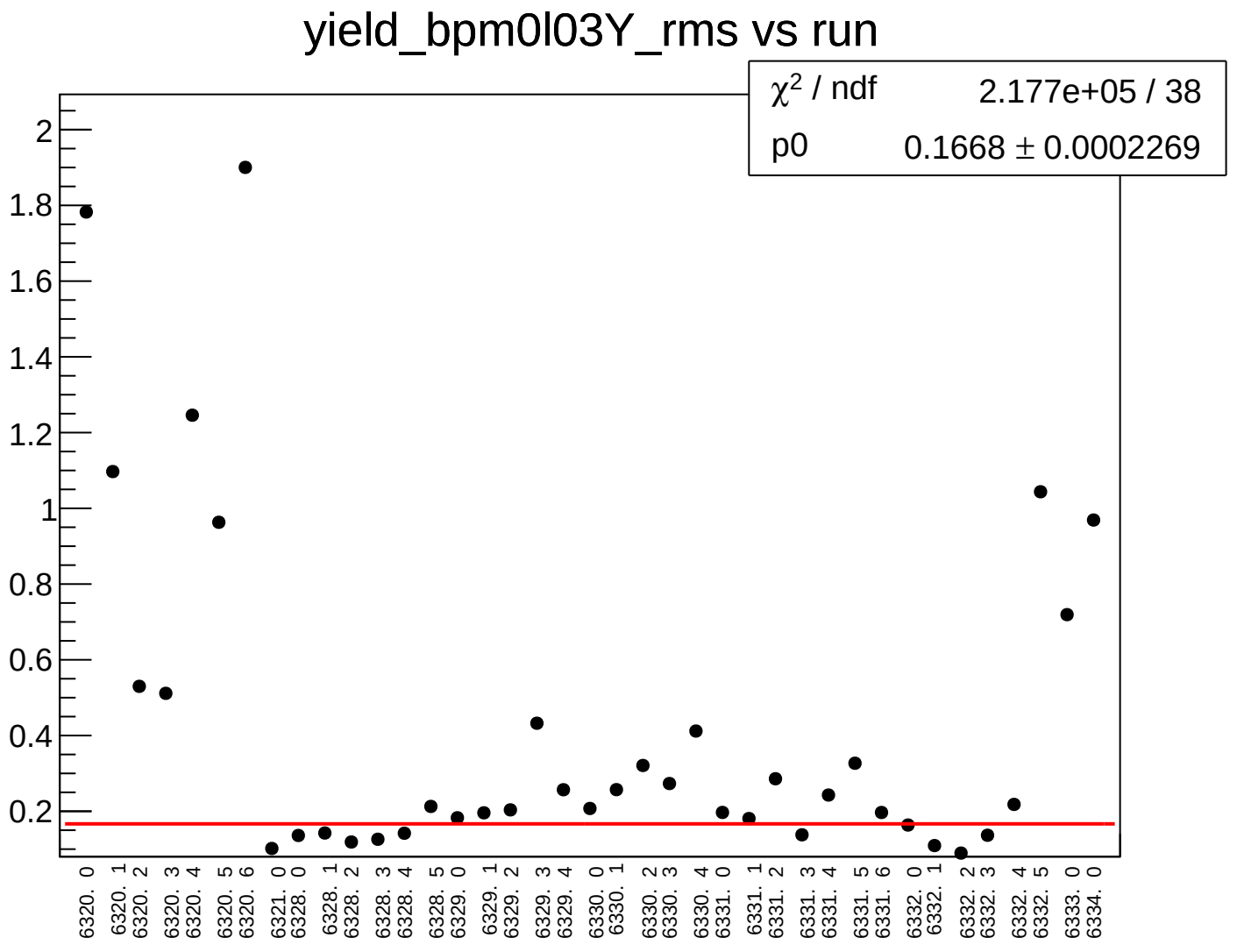

pull
Entries 39
Mean 36.02
Std Dev 9.882
350
300
250
200
150
100
50
0
−50

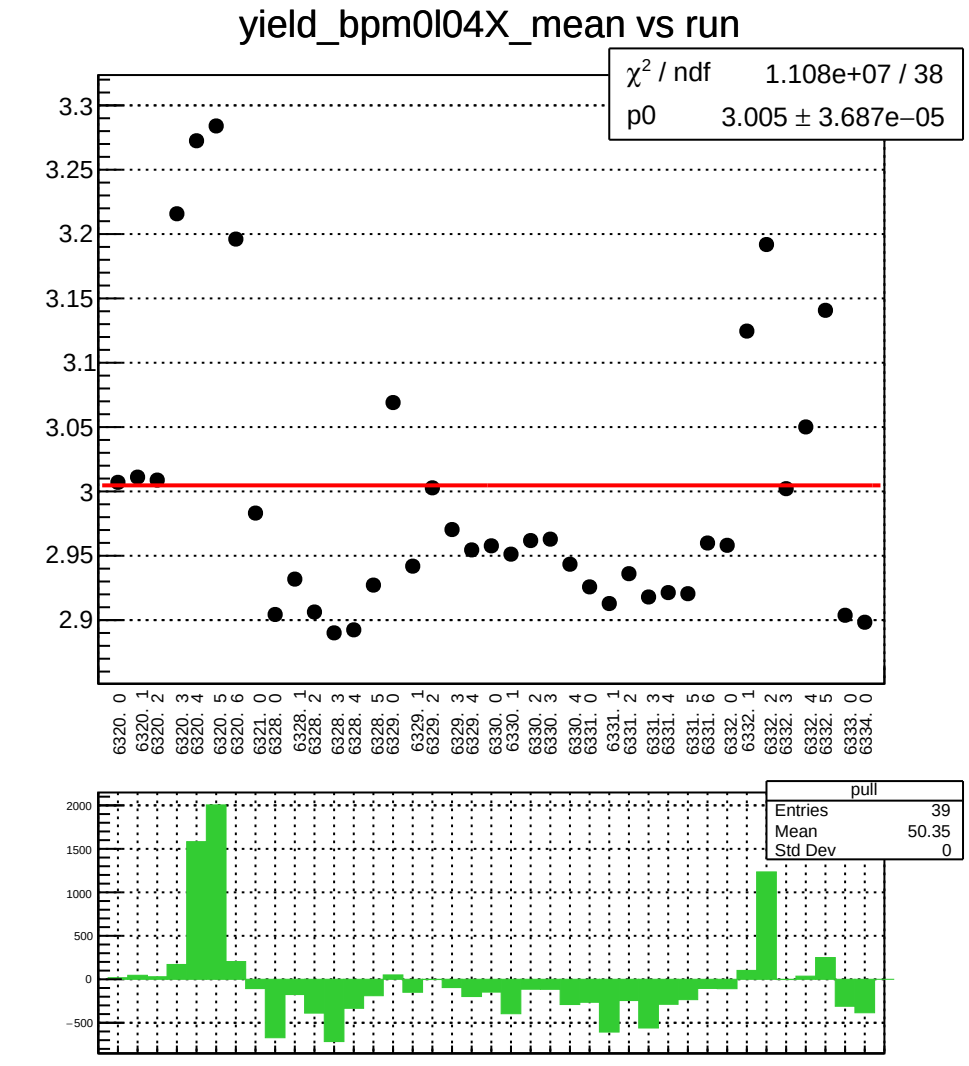

pull1D
Entries 39
Mean −0.07477
Std Dev 4.701
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

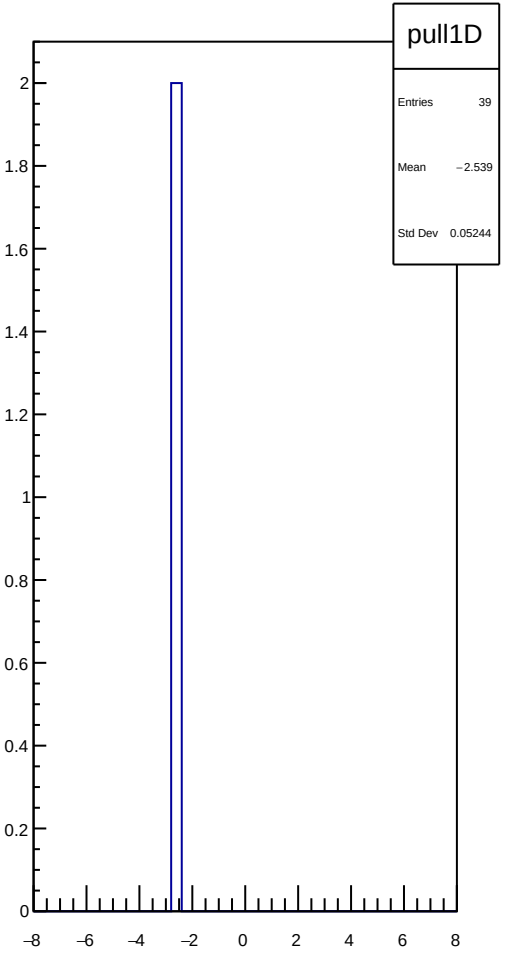

yield_bpm0l03X_rms vs run
χ² / ndf 2.159e+05 / 38
p0 0.1676 ± 0.0002276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

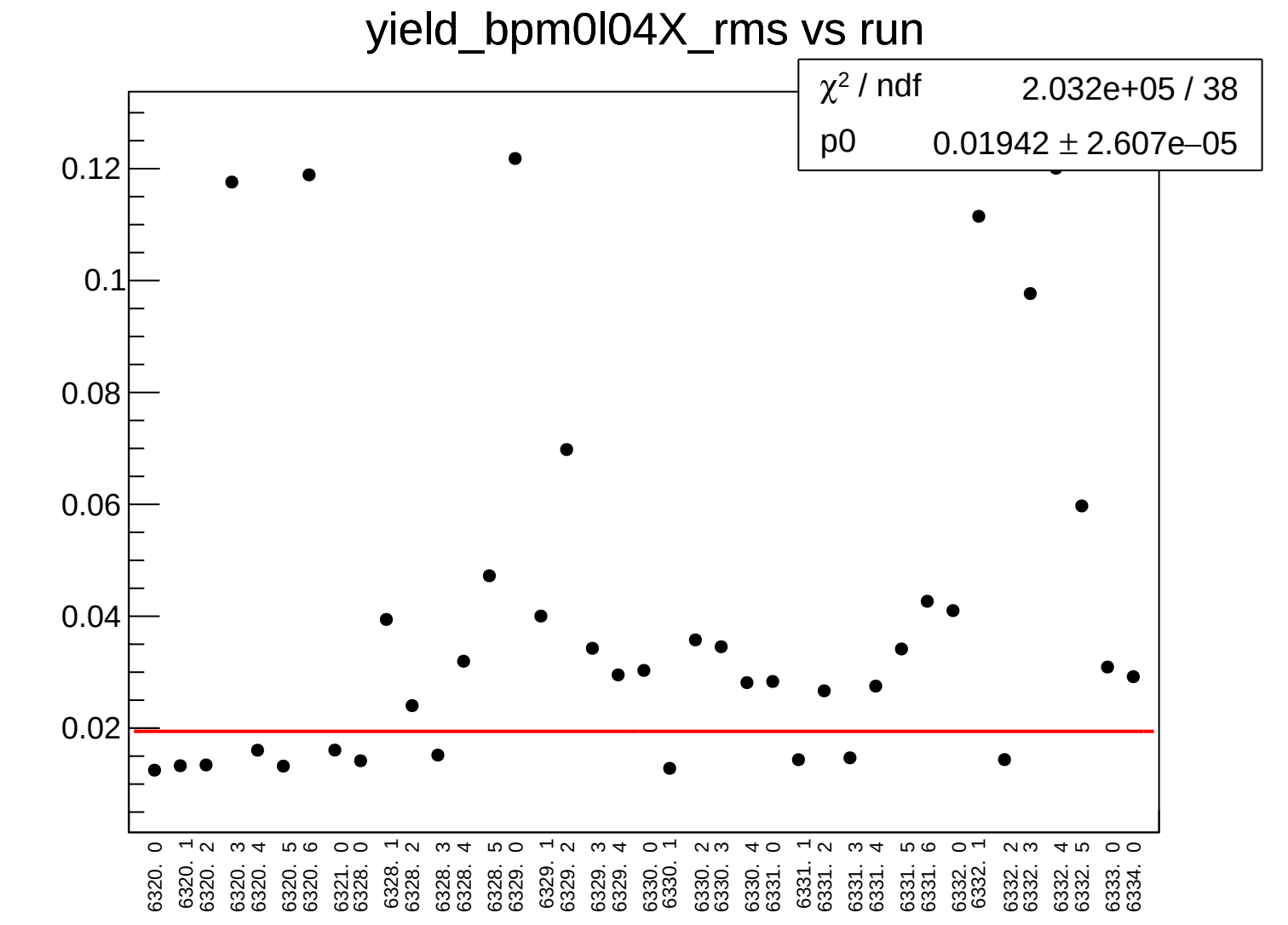

yield_bpm0l03Y_mean vs run
χ² / ndf 2.805e+05 / 38
p0 0.6308 ± 0.0003208
3.5
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31.73
Std Dev 12.4
350
300
250
200
150
100
50
0
−50

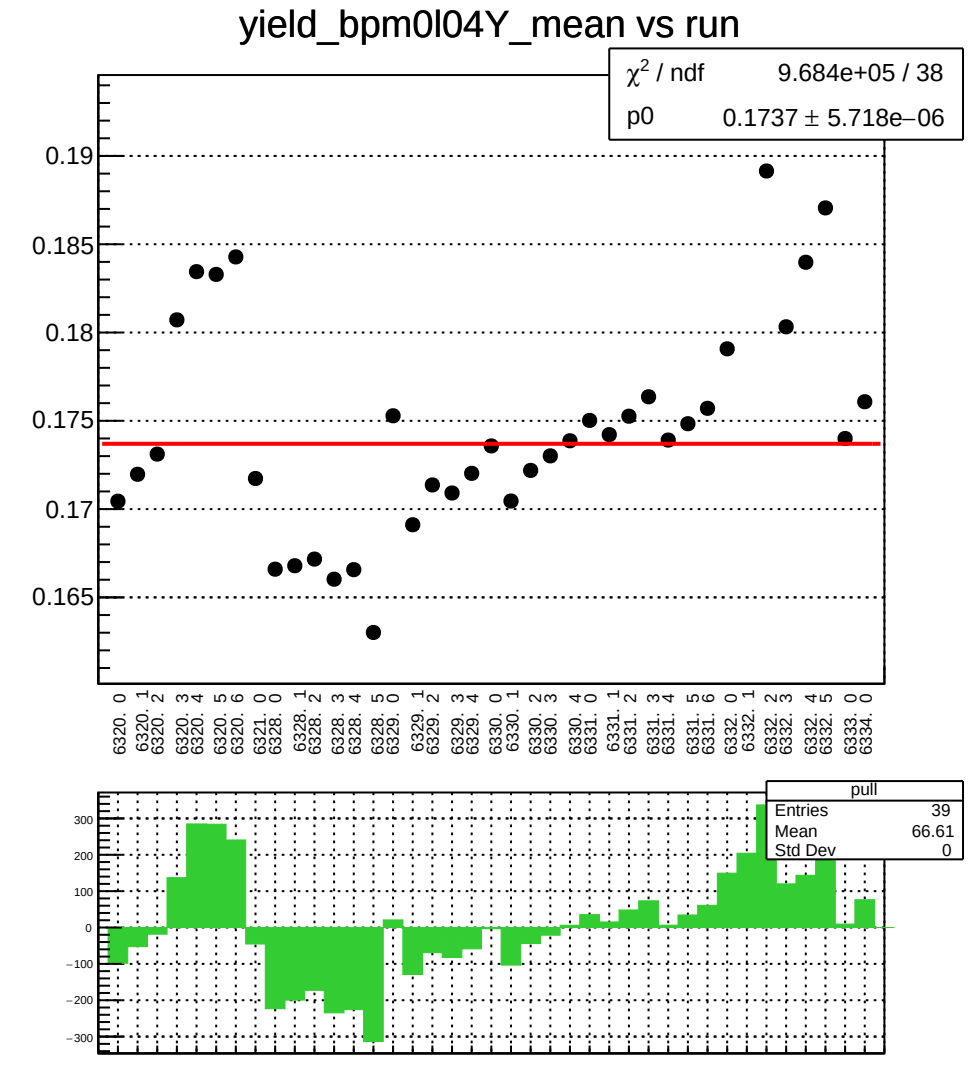

pull1D
Entries 39
Mean 2.169
Std Dev 3.671
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

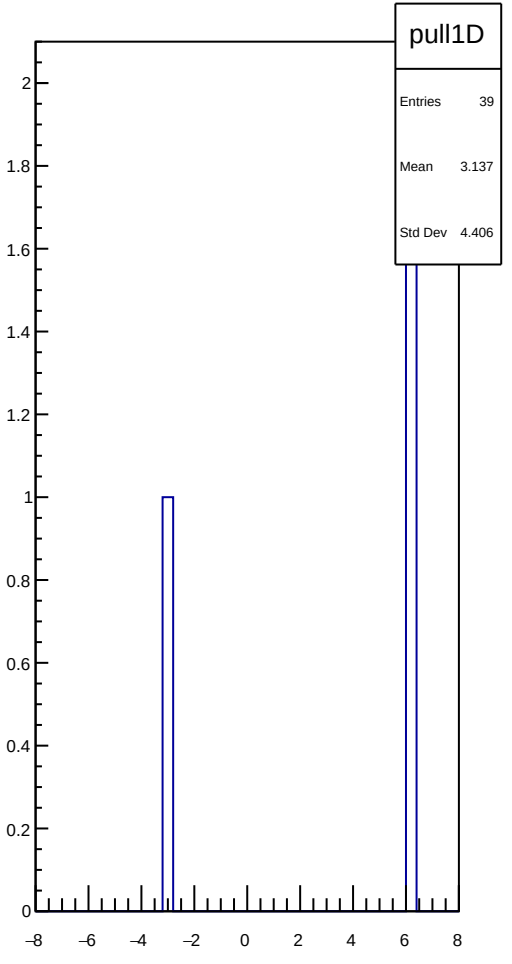

yield_bpm0l03Y_rms vs run
χ² / ndf 2.177e+05 / 38
p0 0.1668 ± 0.0002269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

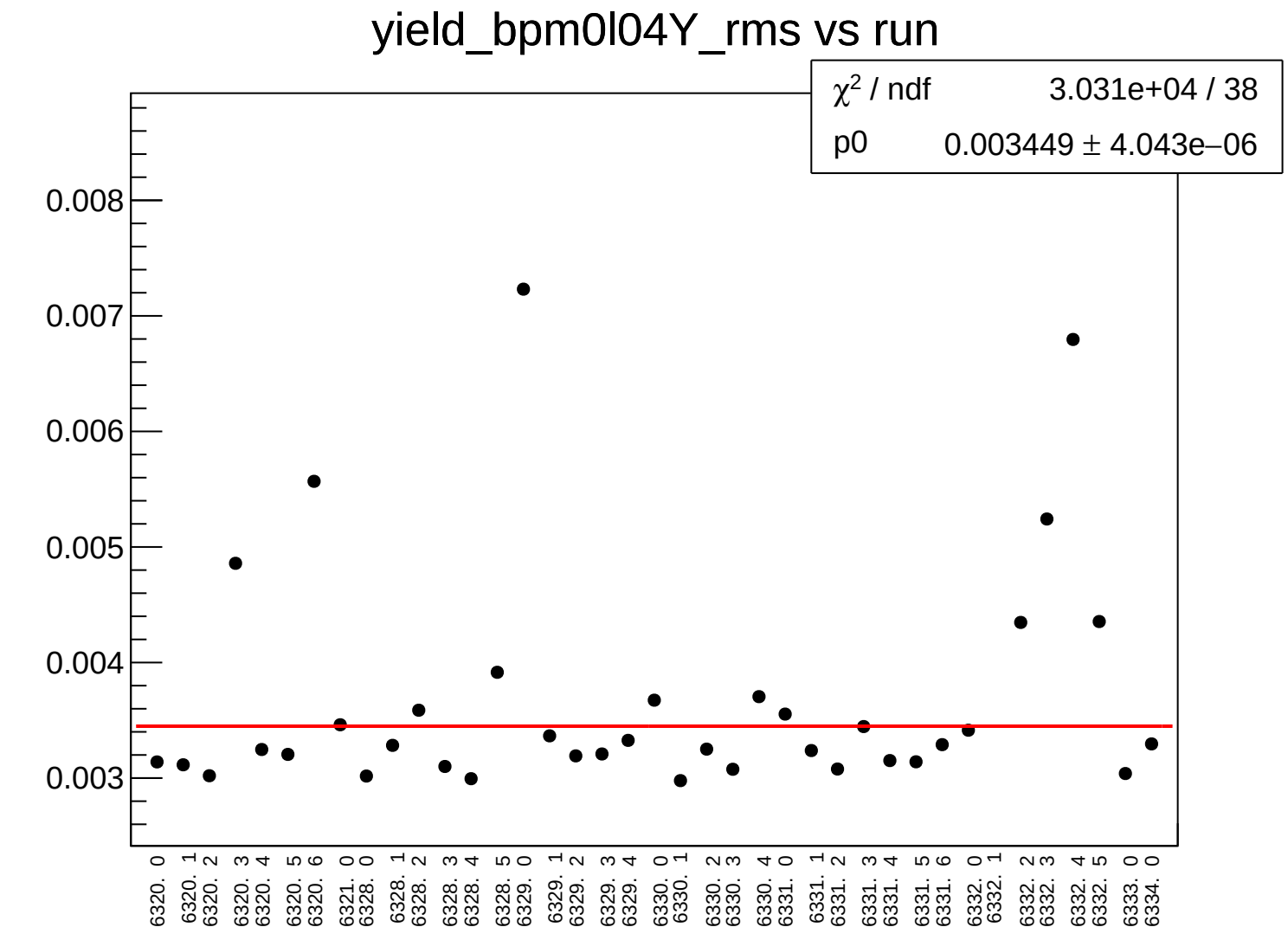

yield_bpm0l04X_mean vs run
χ² / ndf 1.108e+07 / 38
p0 3.005 ± 3.687e−05
3.3
3.25
3.2
3.15
3.1
3.05
3
2.95
2.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.35
Std Dev 0
2000
1500
1000
500
0
−500

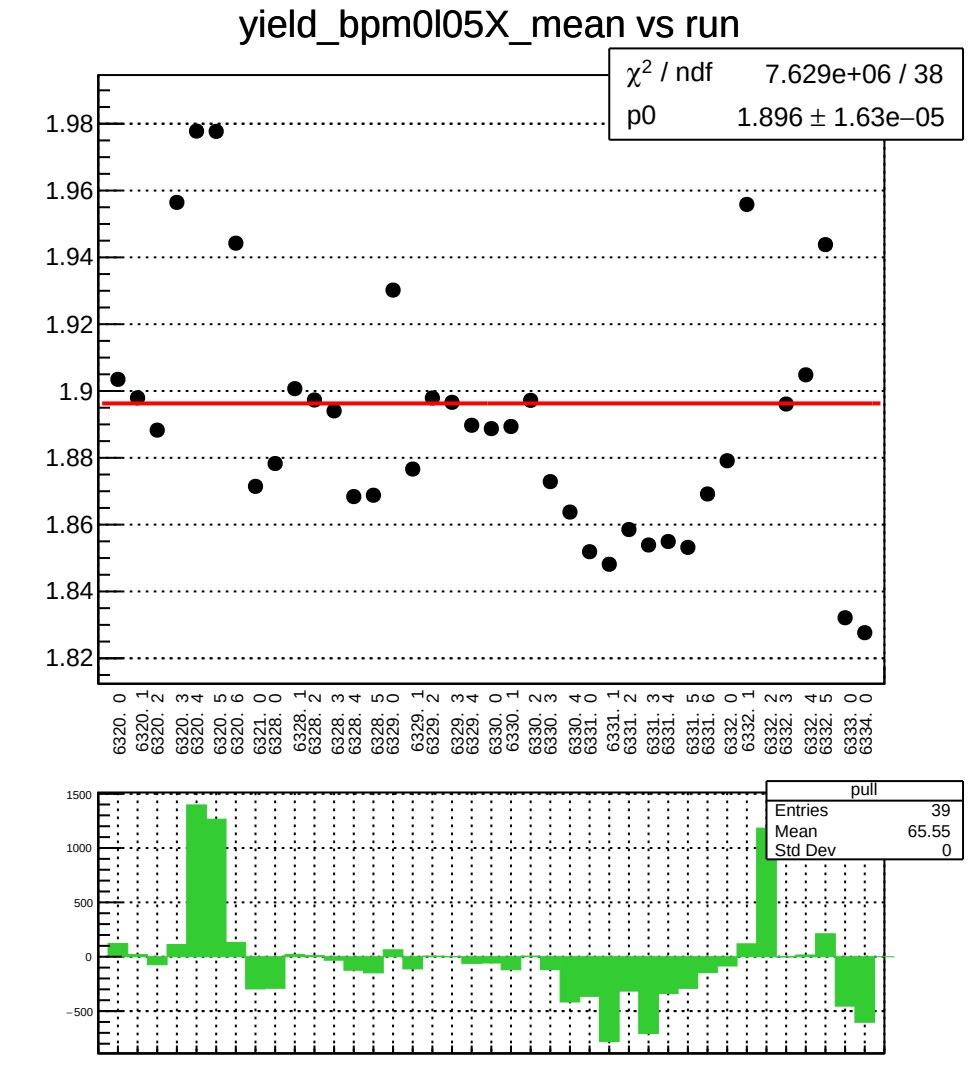

pull1D
Entries 39
Mean −2.539
Std Dev 0.05244
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

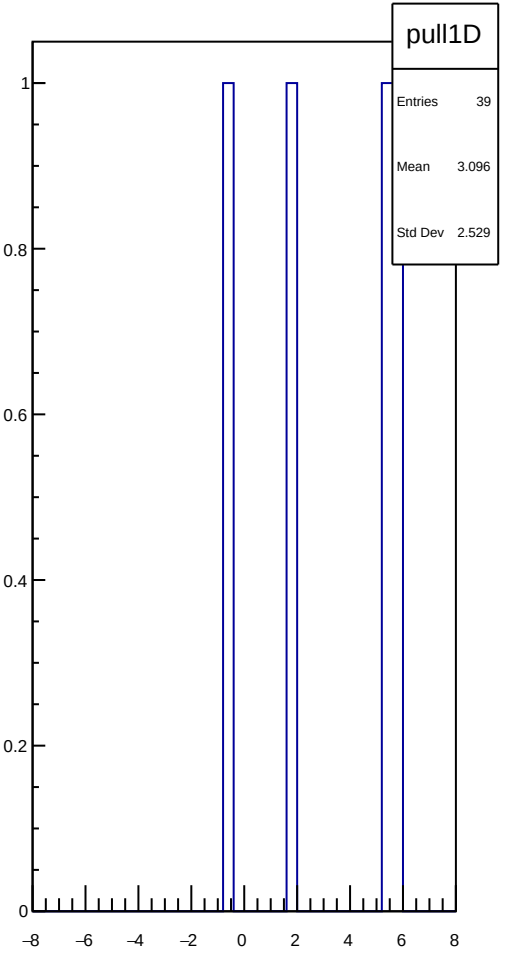

yield_bpm0l04X_rms vs run
χ² / ndf 2.032e+05 / 38
p0 0.01942 ± 2.607e–05
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

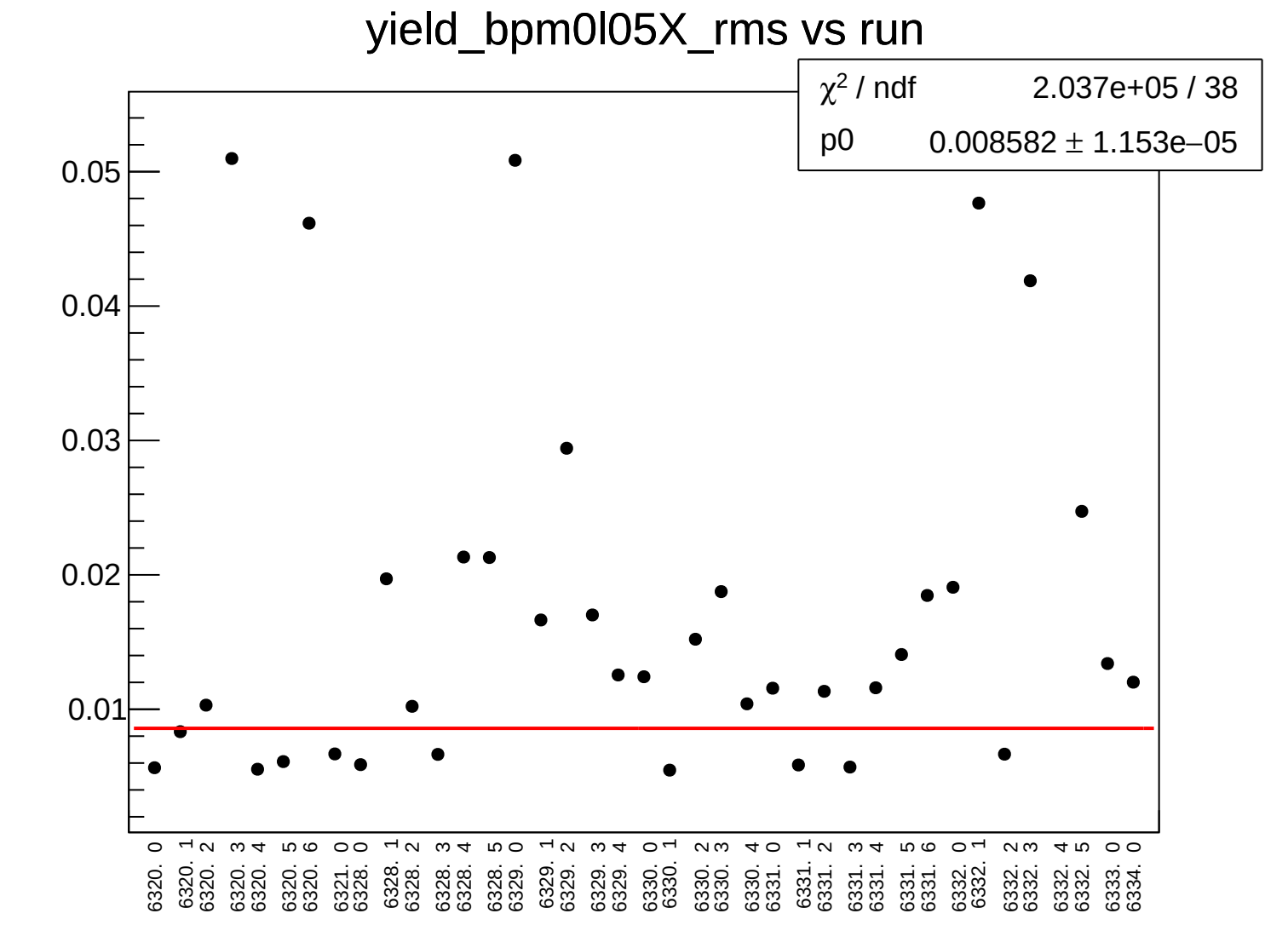

yield_bpm0l04Y_mean vs run
χ² / ndf 9.684e+05 / 38
p0 0.1737 ± 5.718e−06
0.19
0.185
0.18
0.175
0.17
0.165
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 66.61
Std Dev 0
300
200
100
0
−100
−200
−300

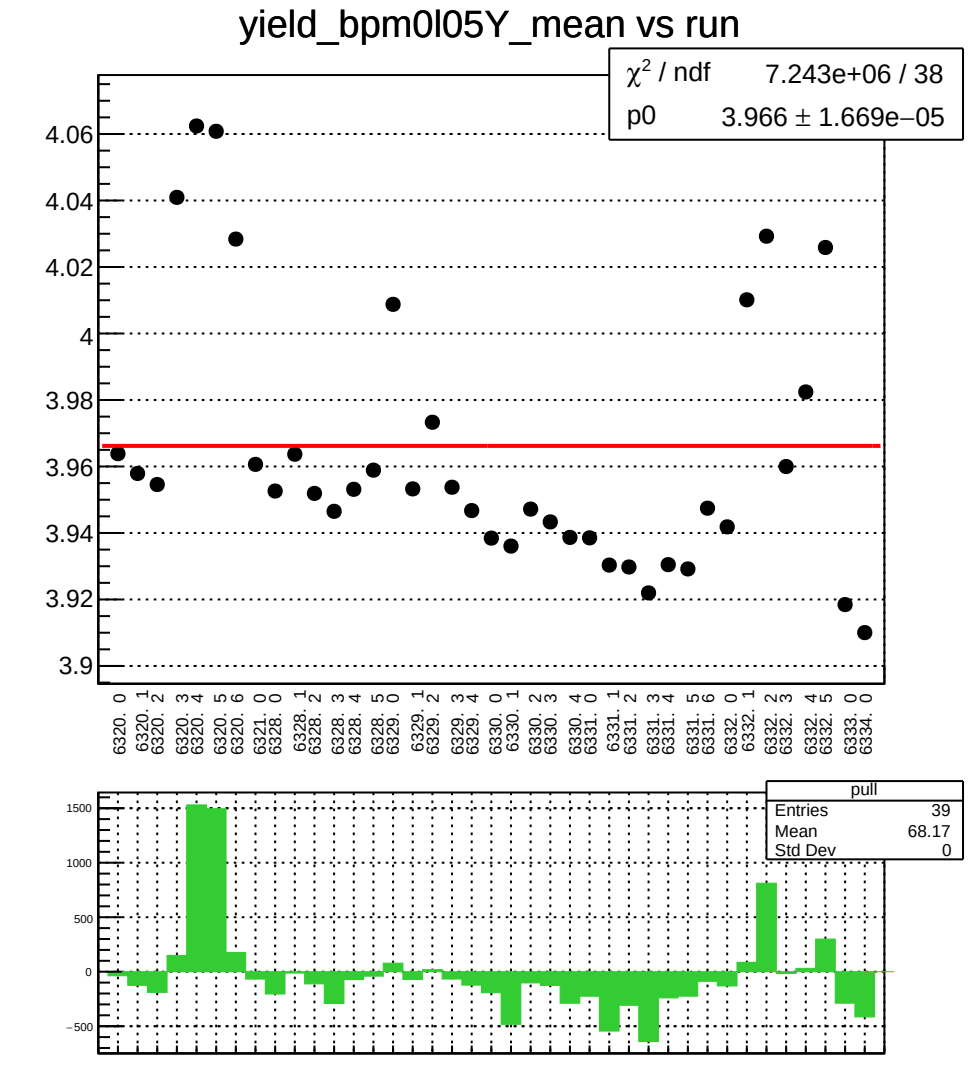

pull1D
Entries 39
Mean 3.137
Std Dev 4.406
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

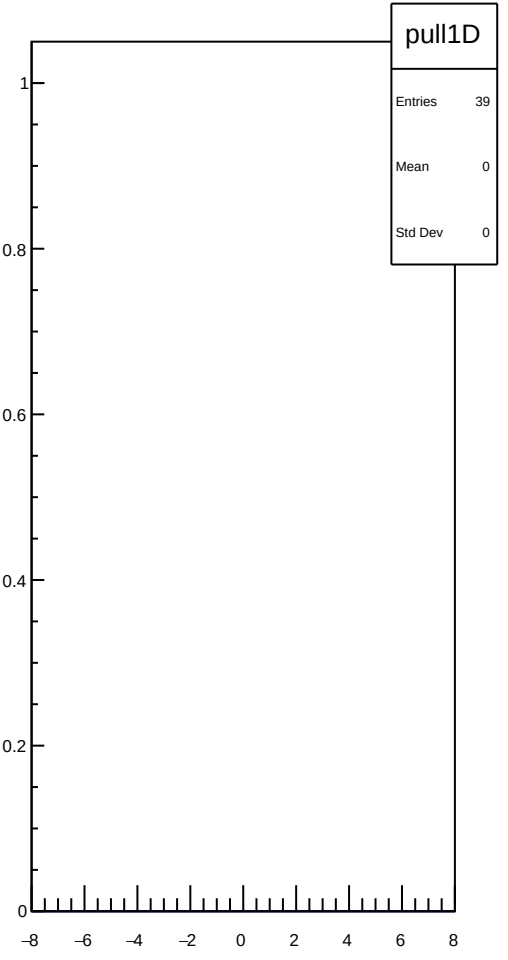

yield_bpm0l04Y_rms vs run
χ² / ndf 3.031e+04 / 38
p0 0.003449 ± 4.043e−06
0.008
0.007
0.006
0.005
0.004
0.003
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

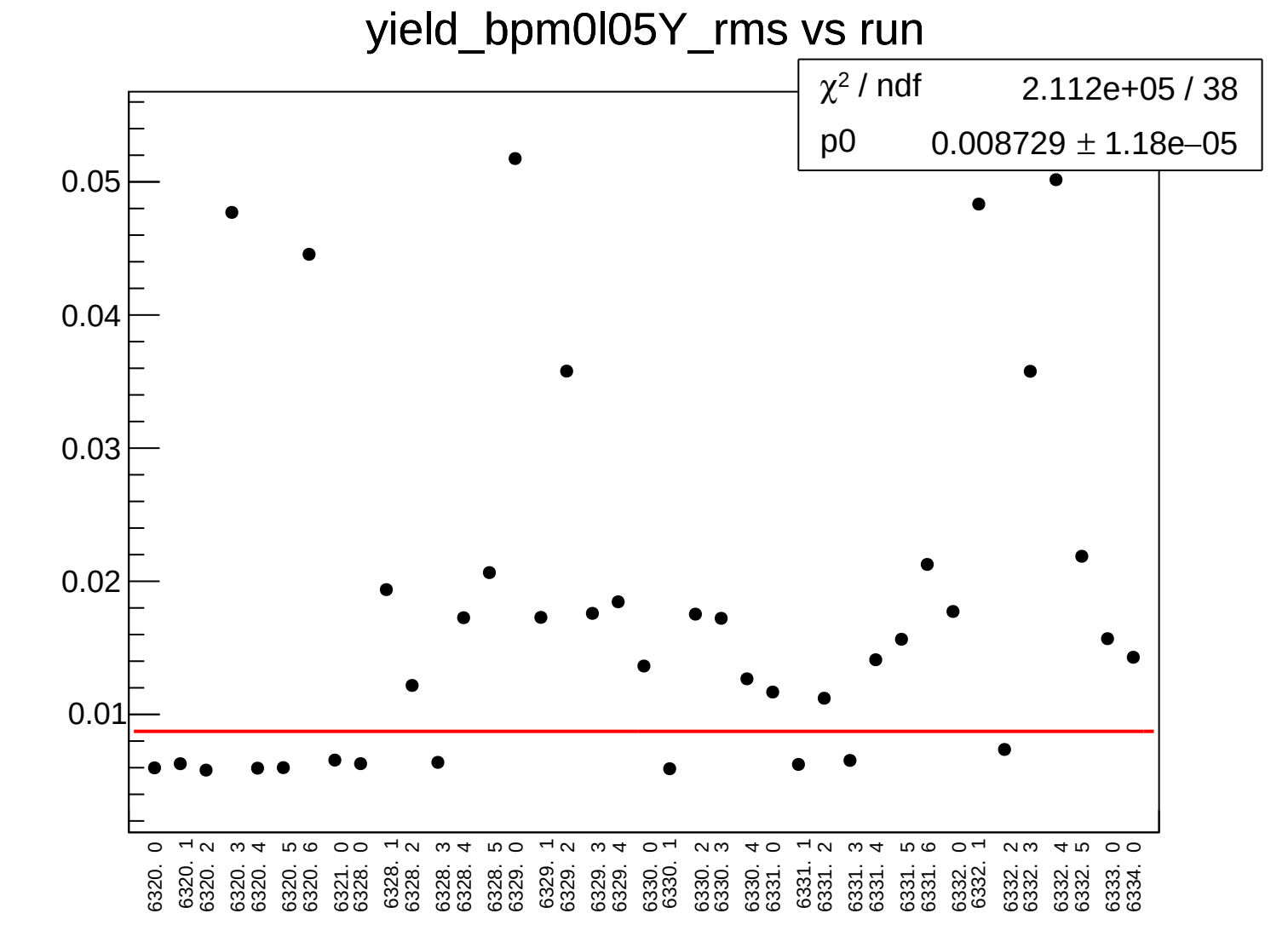

yield_bpm0l05X_mean vs run
χ² / ndf 7.629e+06 / 38
p0 1.896 ± 1.63e−05
1.98
1.96
1.94
1.92
1.9
1.88
1.86
1.84
1.82
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 65.55
Std Dev 0
1500
1000
500
0
−500

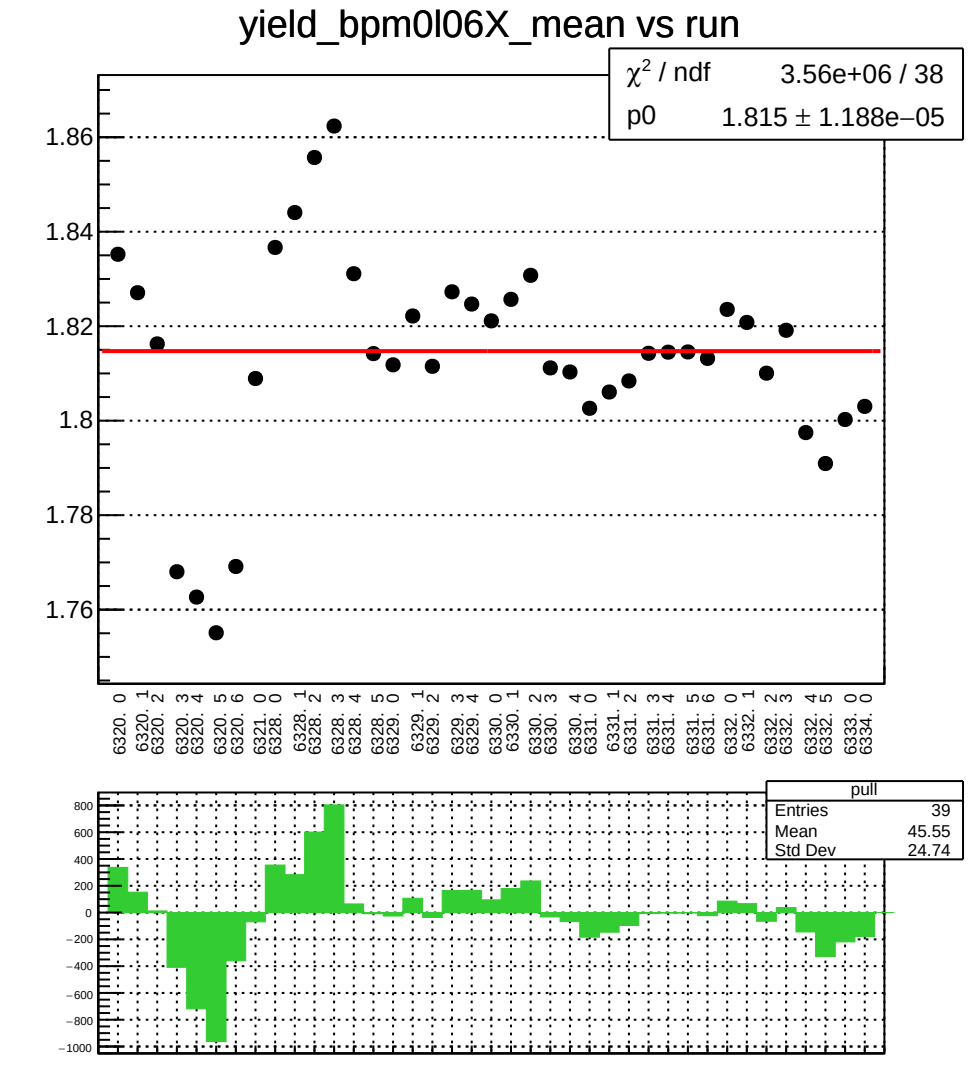

pull1D
Entries 39
Mean 3.096
Std Dev 2.529
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

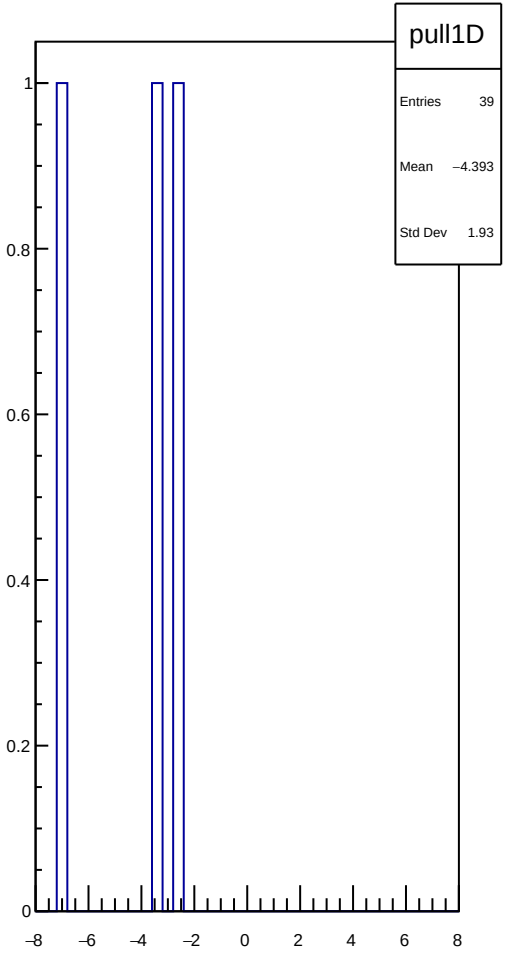

yield_bpm0l05X_rms vs run
χ² / ndf 2.037e+05 / 38
p0 0.008582 ± 1.153e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

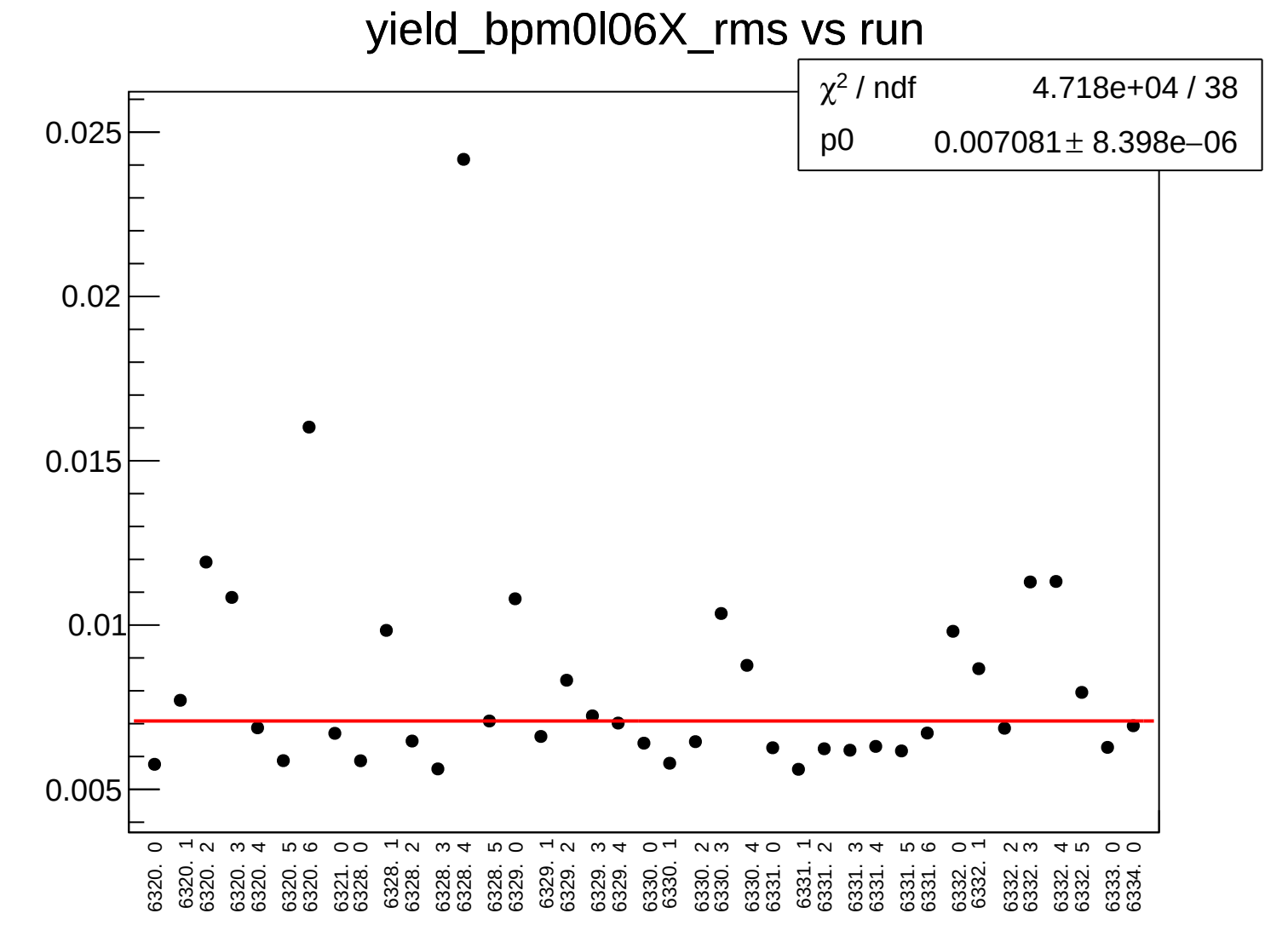

yield_bpm0l05Y_mean vs run
χ² / ndf 7.243e+06 / 38
p0 3.966 ± 1.669e−05
4.06
4.04
4.02
4
3.98
3.96
3.94
3.92
3.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.17
Std Dev 0
1500
1000
500
0
−500

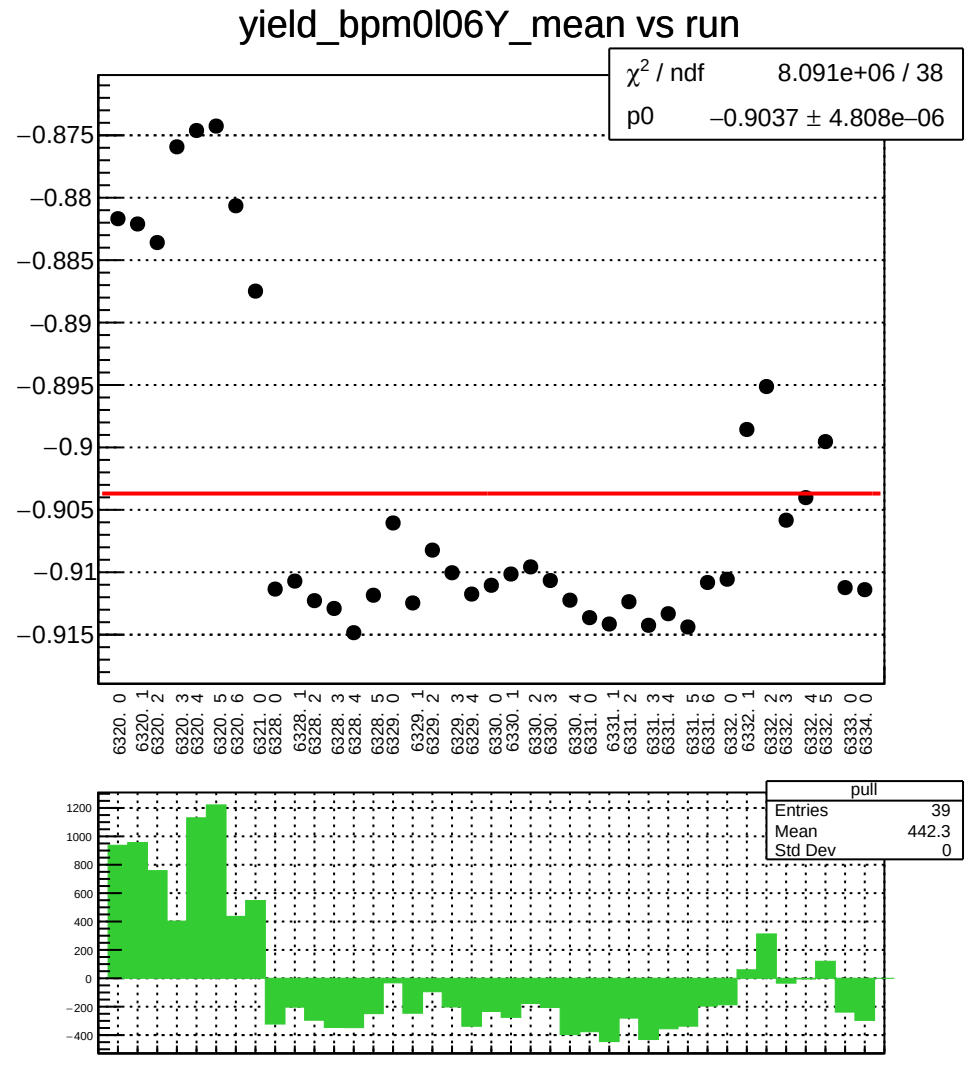

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

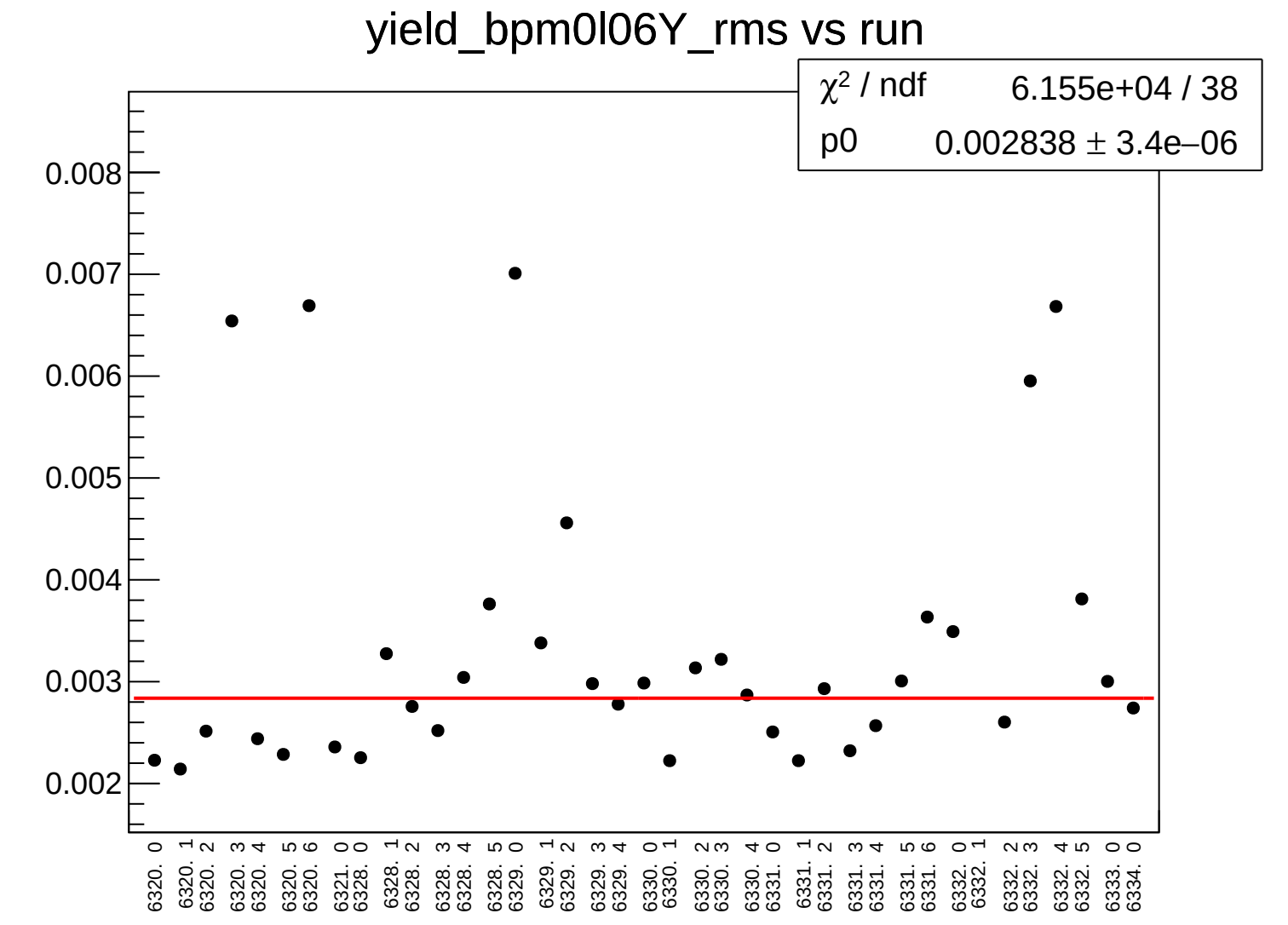

yield_bpm0l05Y_rms vs run
χ² / ndf 2.112e+05 / 38
p0 0.008729 ± 1.18e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

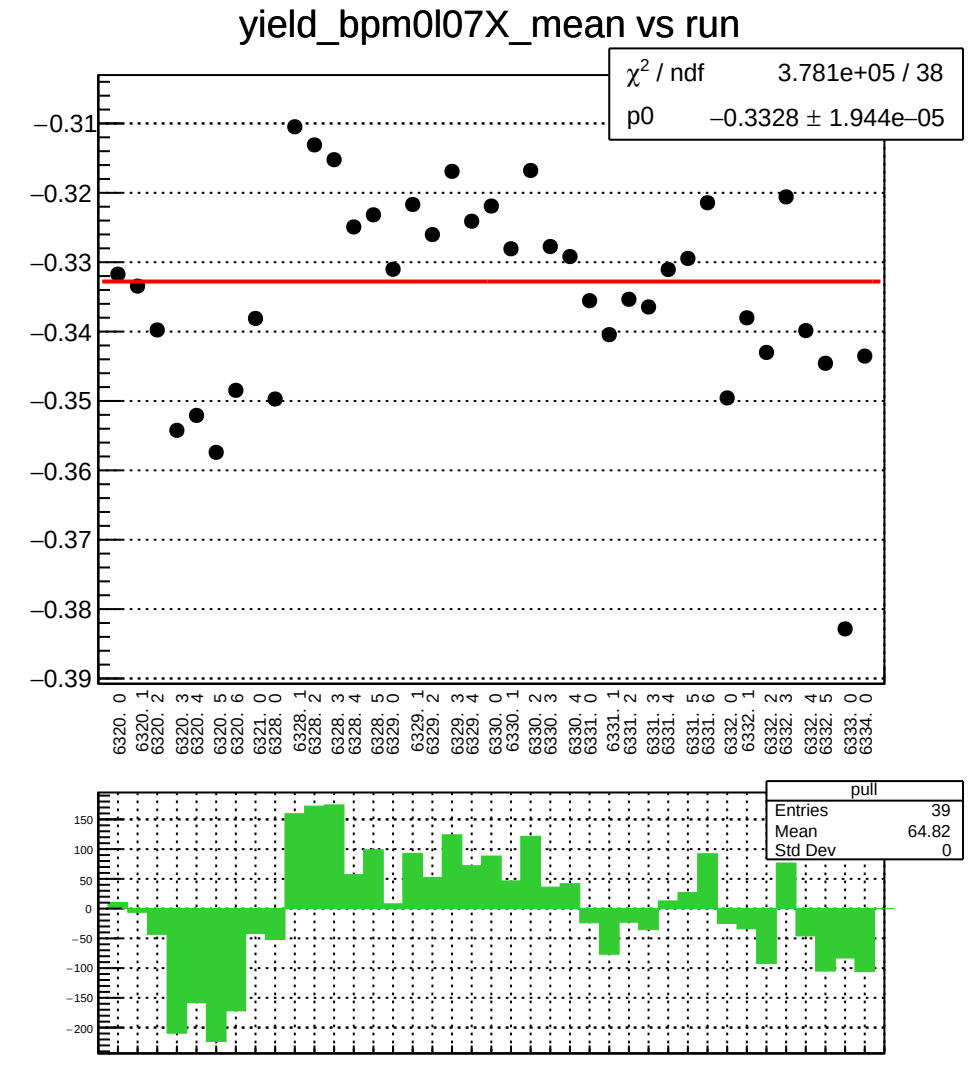

yield_bpm0l06X_mean vs run
χ² / ndf 3.56e+06 / 38
p0 1.815 ± 1.188e−05
1.86
1.84
1.82
1.8
1.78
1.76
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.55
Std Dev 24.74
800
600
400
200
0
−200
−400
−600
−800
−1000

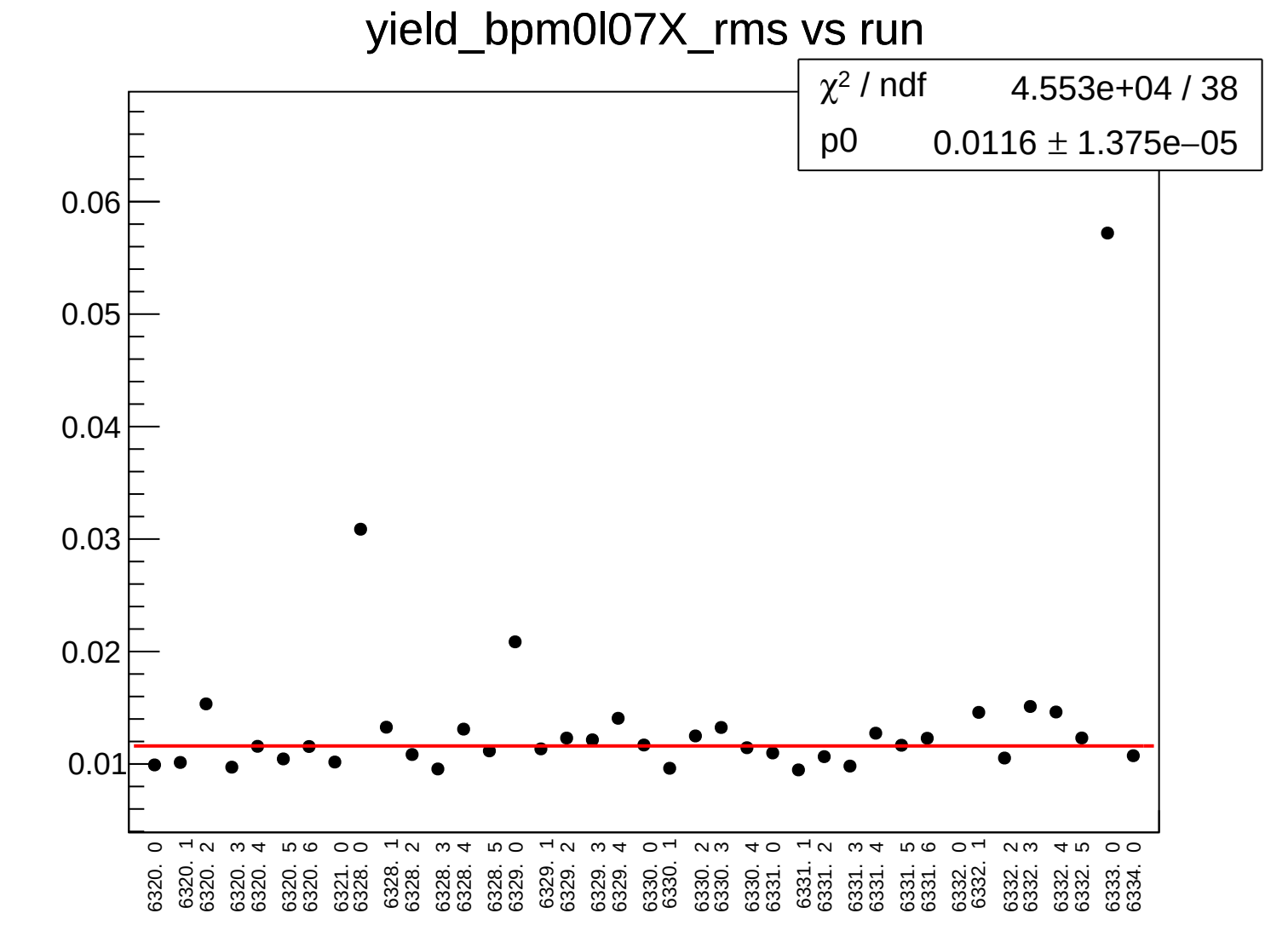

pull1D
Entries 39
Mean −4.393
Std Dev 1.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

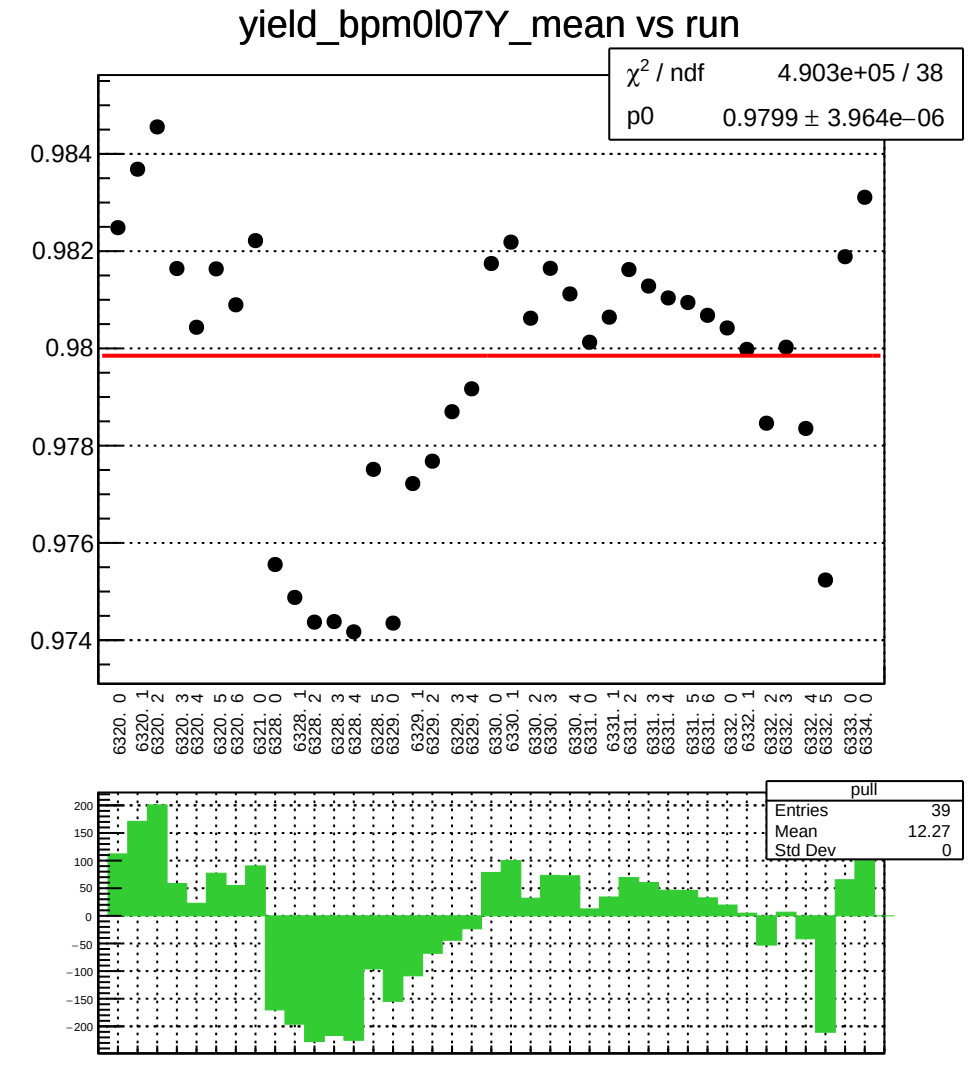

yield_bpm0l06X_rms vs run
χ² / ndf 4.718e+04 / 38
p0 0.007081 ± 8.398e−06
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

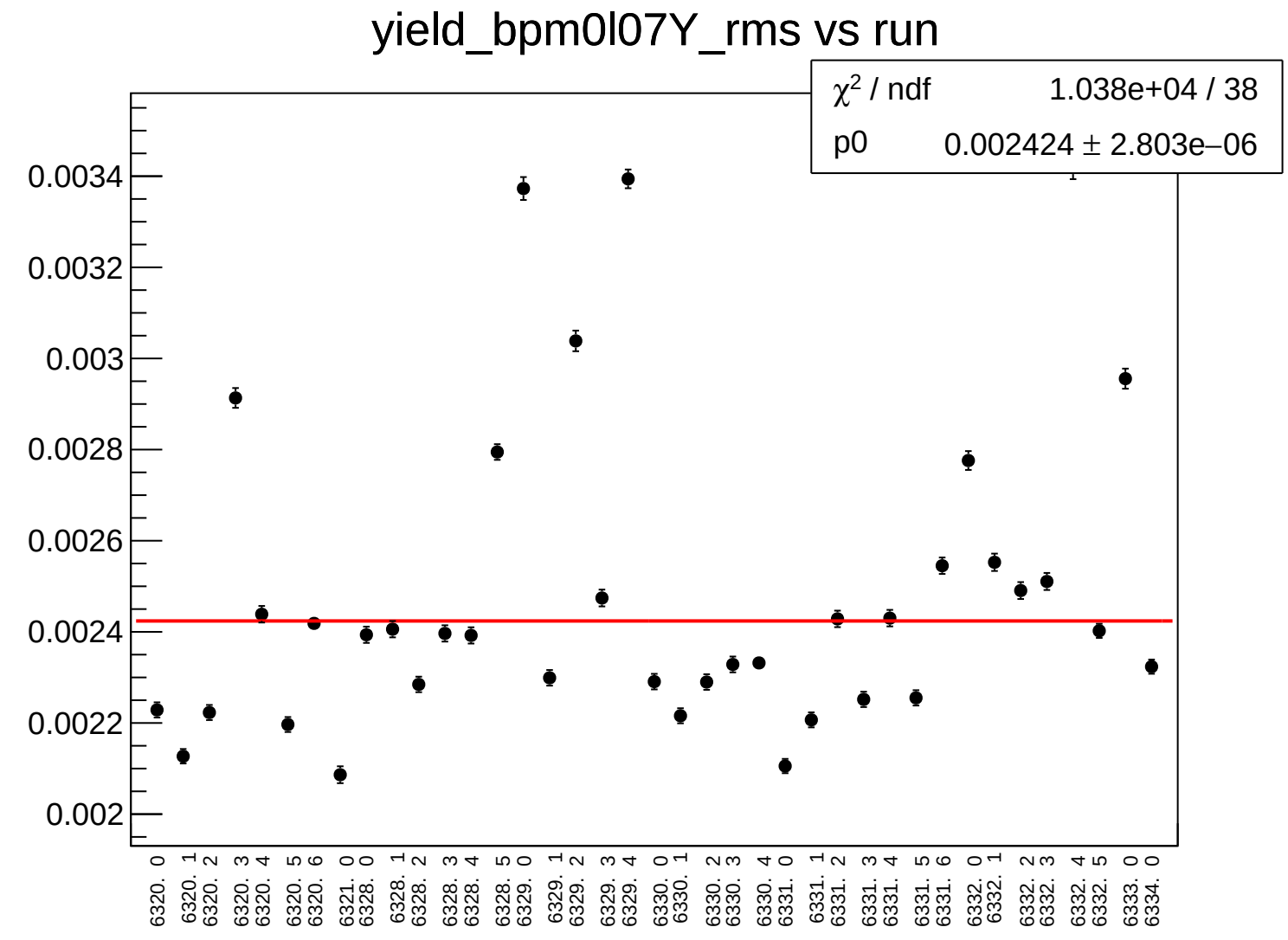

yield_bpm0l06Y_mean vs run
χ² / ndf 8.091e+06 / 38
p0 −0.9037 ± 4.808e−06
−0.875
−0.88
−0.885
−0.89
−0.895
−0.9
−0.905
−0.91
−0.915
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 442.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 39
Mean −4.626
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

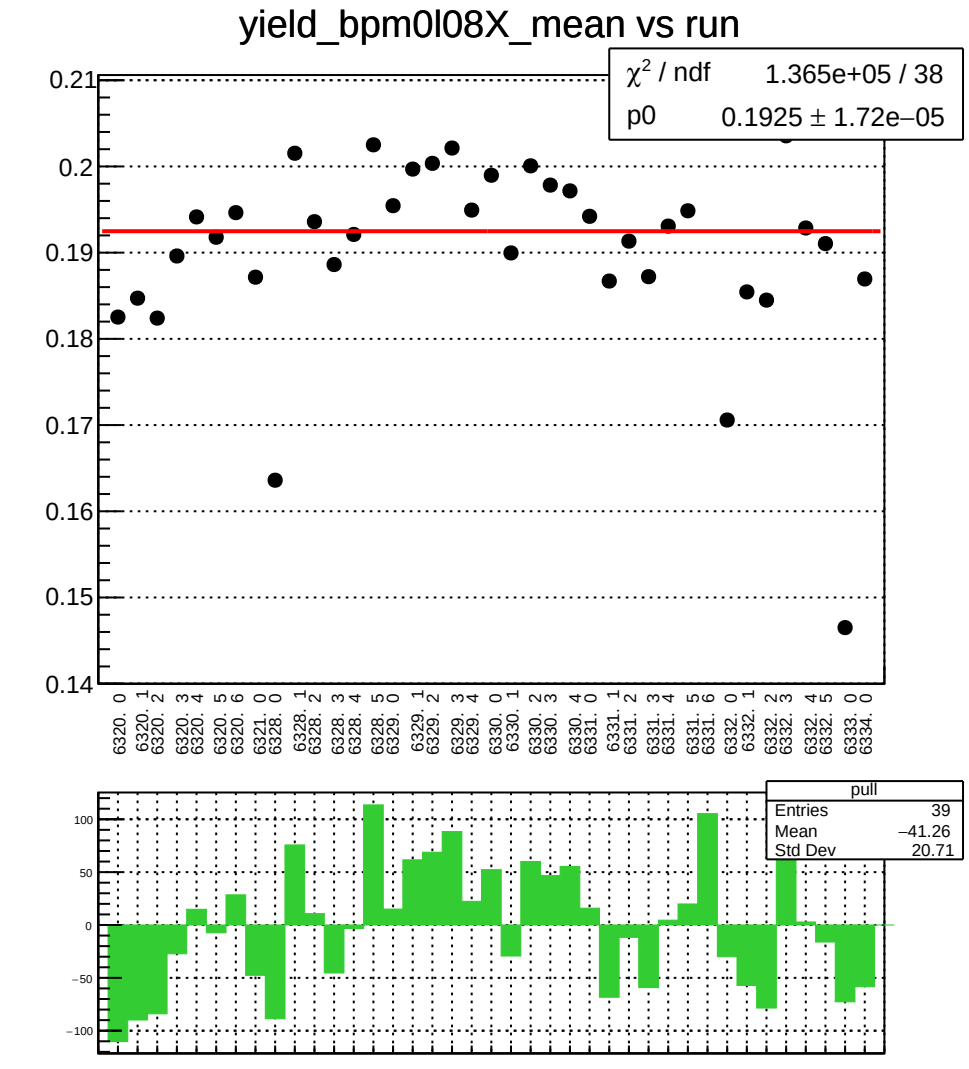

yield_bpm0l06Y_rms vs run
χ² / ndf 6.155e+04 / 38
p0 0.002838 ± 3.4e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

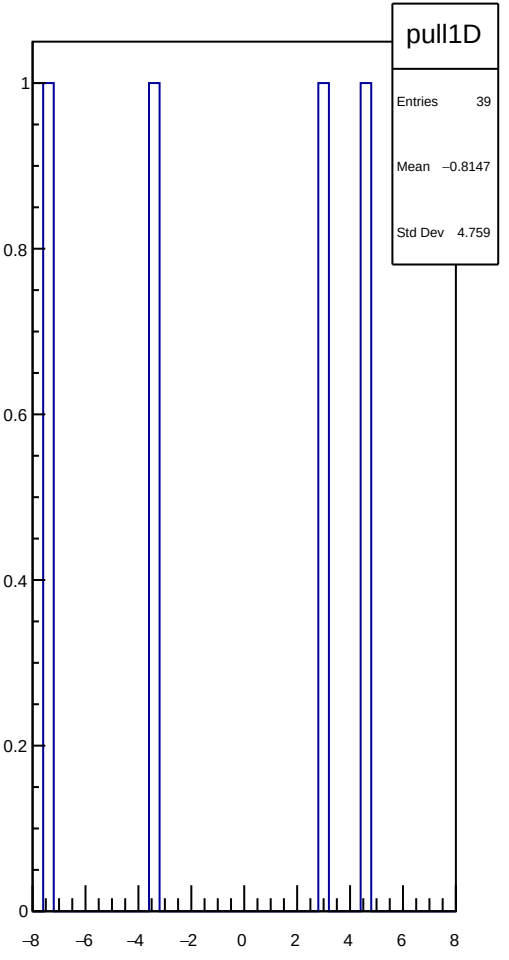

yield_bpm0l07X_mean vs run
χ² / ndf 3.781e+05 / 38
p0 −0.3328 ± 1.944e−05
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 64.82
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 39
Mean −6.177
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

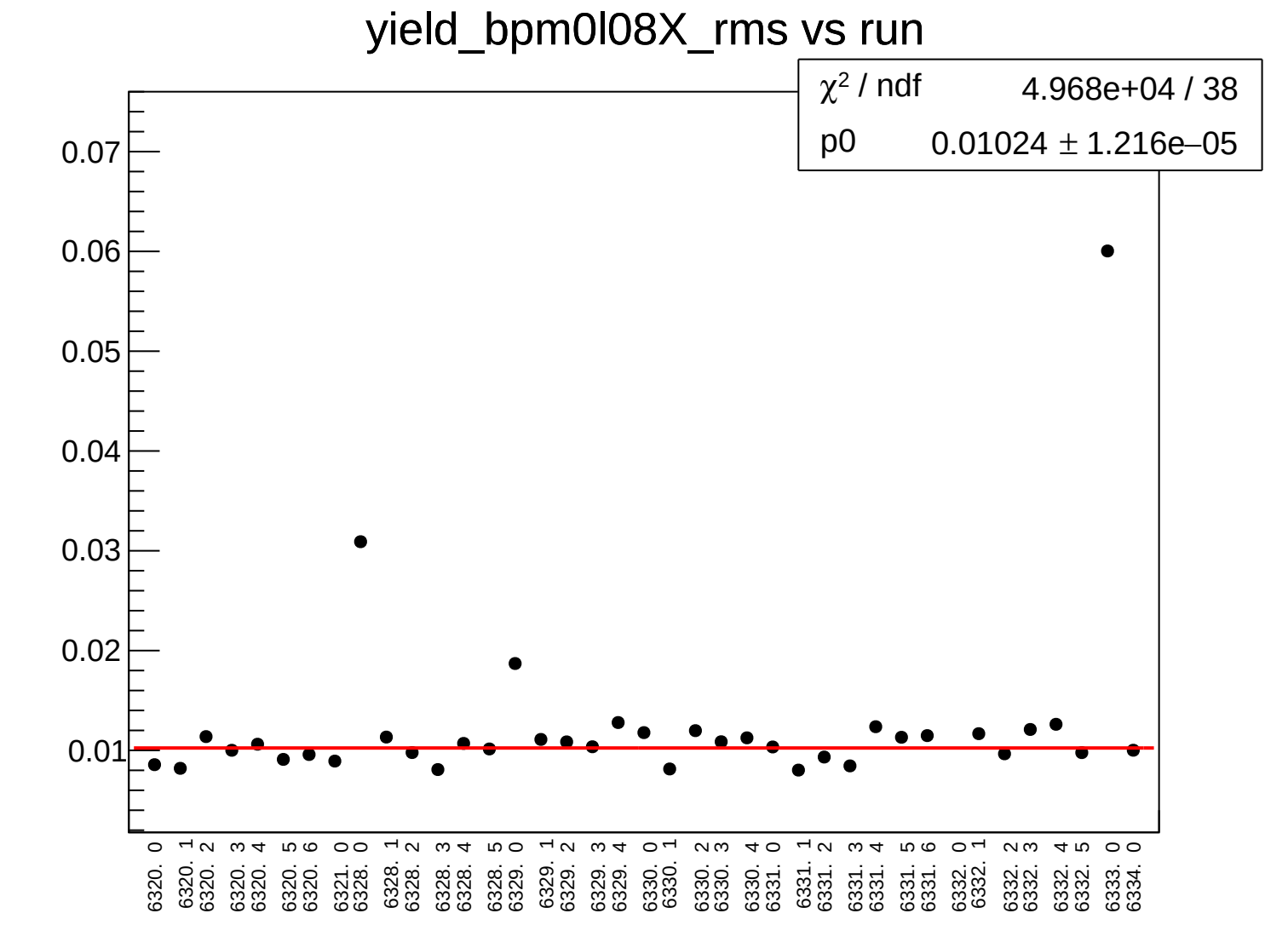

yield_bpm0l07X_rms vs run
χ² / ndf 4.553e+04 / 38
p0 0.0116 ± 1.375e−05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

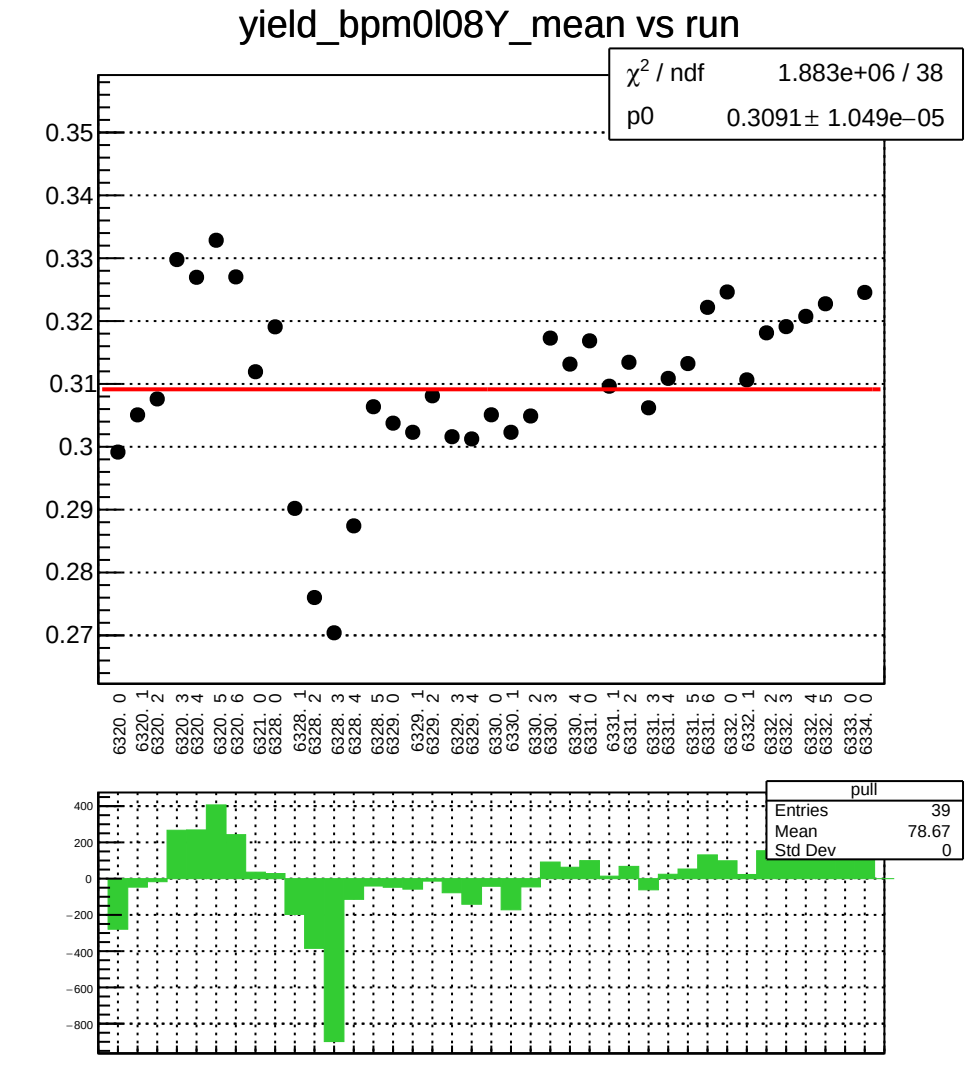

yield_bpm0l07Y_mean vs run
χ² / ndf 4.903e+05 / 38
p0 0.9799 ± 3.964e−06
0.984
0.982
0.98
0.978
0.976
0.974
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 12.27
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 39
Mean 5.723
Std Dev 0.8859
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

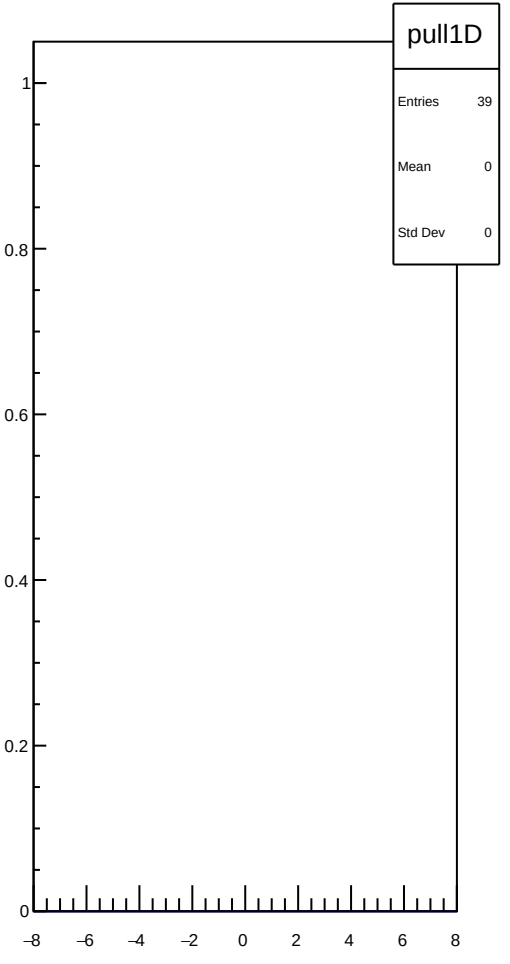

yield_bpm0l07Y_rms vs run
χ² / ndf 1.038e+04 / 38
p0 0.002424 ± 2.803e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

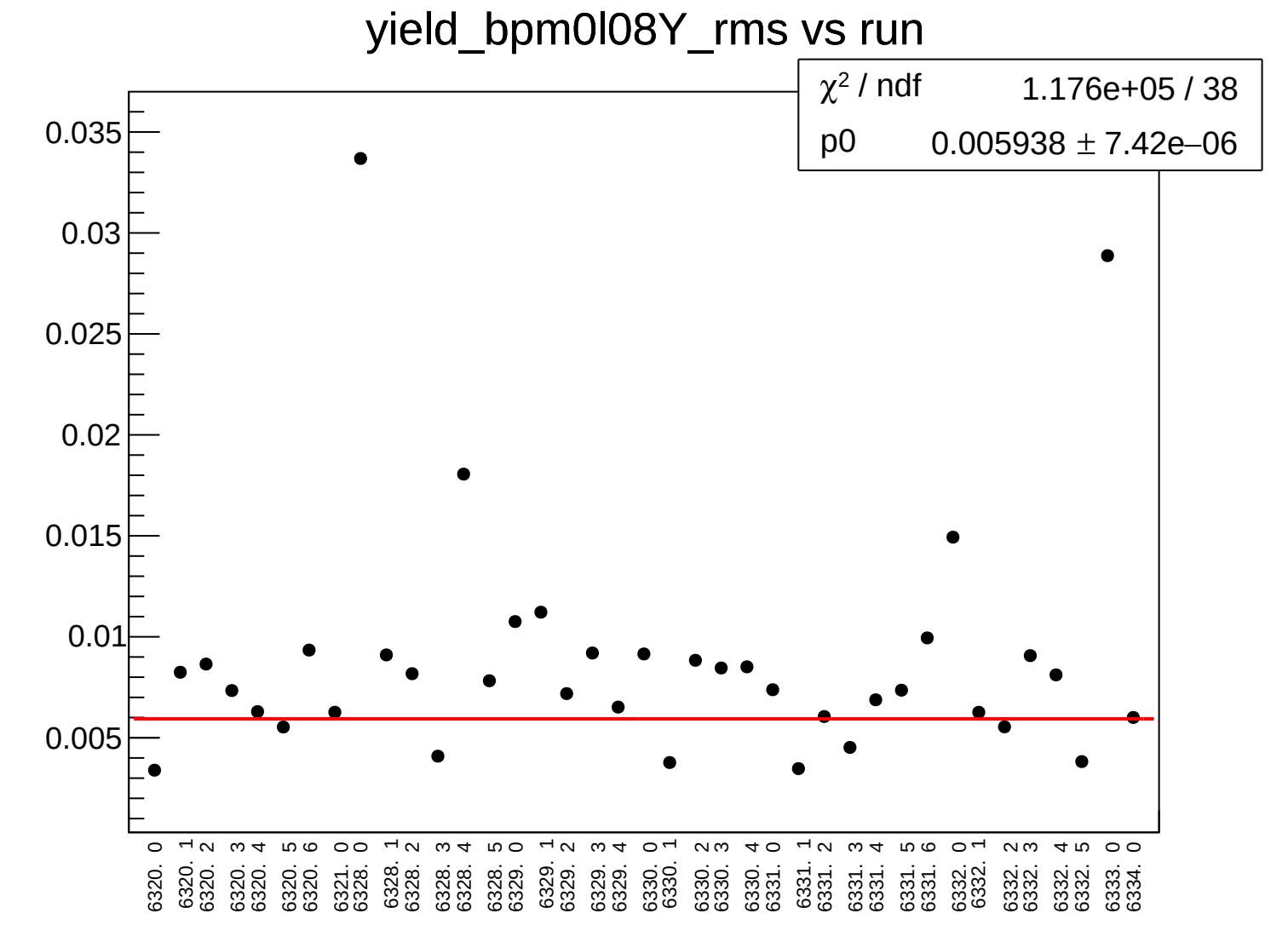

yield_bpm0l08X_mean vs run
χ² / ndf 1.365e+05 / 38
p0 0.1925 ± 1.72e−05
0.21
0.2
0.19
0.18
0.17
0.16
0.15
0.14
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −41.26
Std Dev 20.71
100
50
0
−50
−100

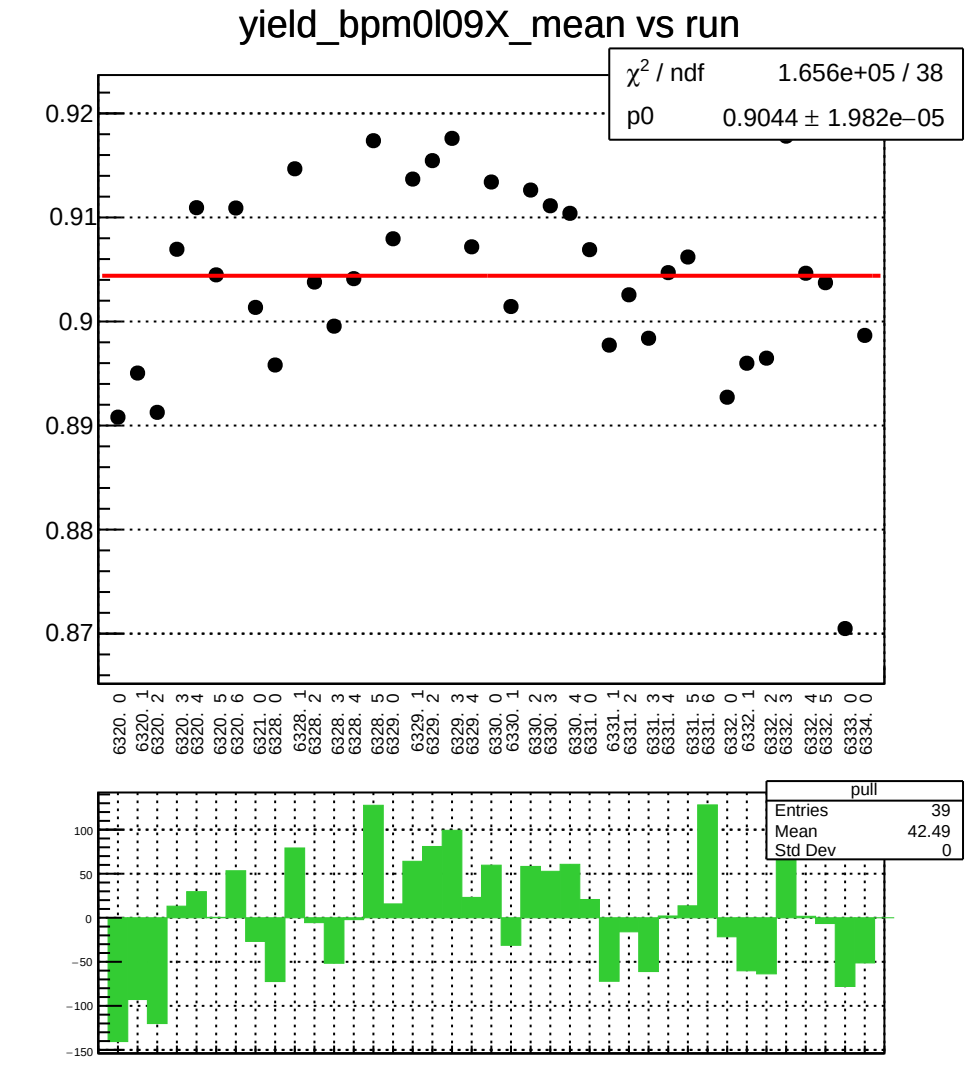

pull1D
Entries 39
Mean −0.8147
Std Dev 4.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

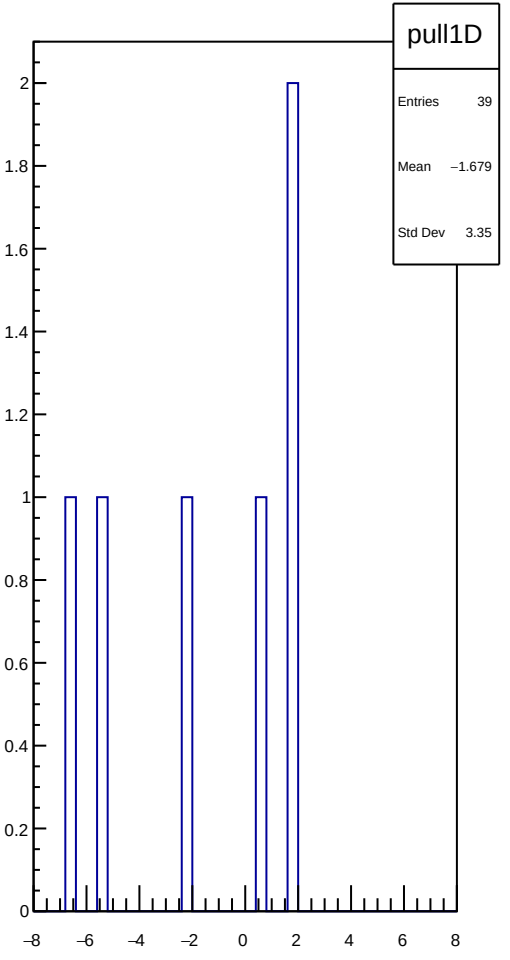

yield_bpm0l08X_rms vs run
χ² / ndf 4.968e+04 / 38
p0 0.01024 ± 1.216e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

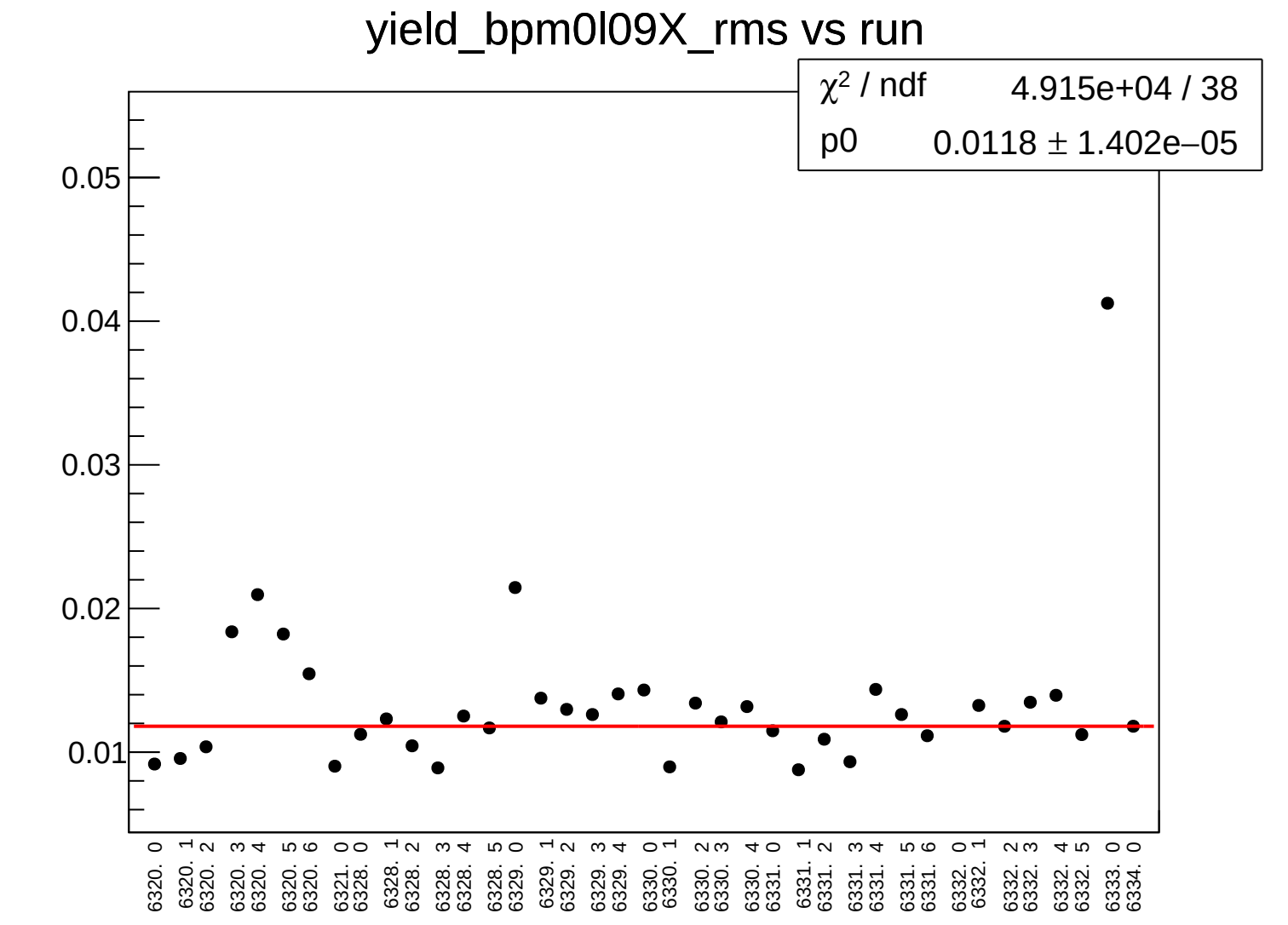

yield_bpm0l08Y_mean vs run
χ² / ndf 1.883e+06 / 38
p0 0.3091 ± 1.049e−05
0.35
0.34
0.33
0.32
0.31
0.3
0.29
0.28
0.27
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 78.67
Std Dev 0
400
200
0
−200
−400
−600
−800

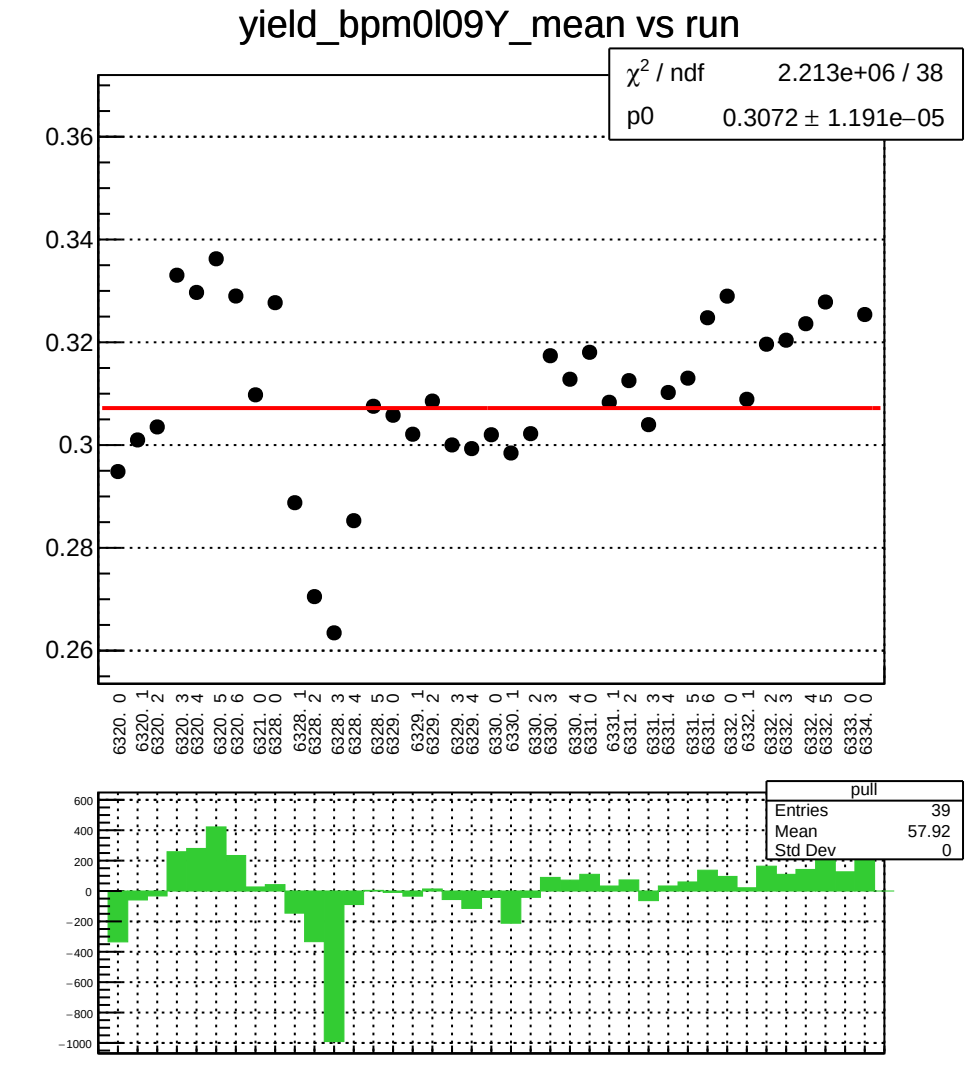

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

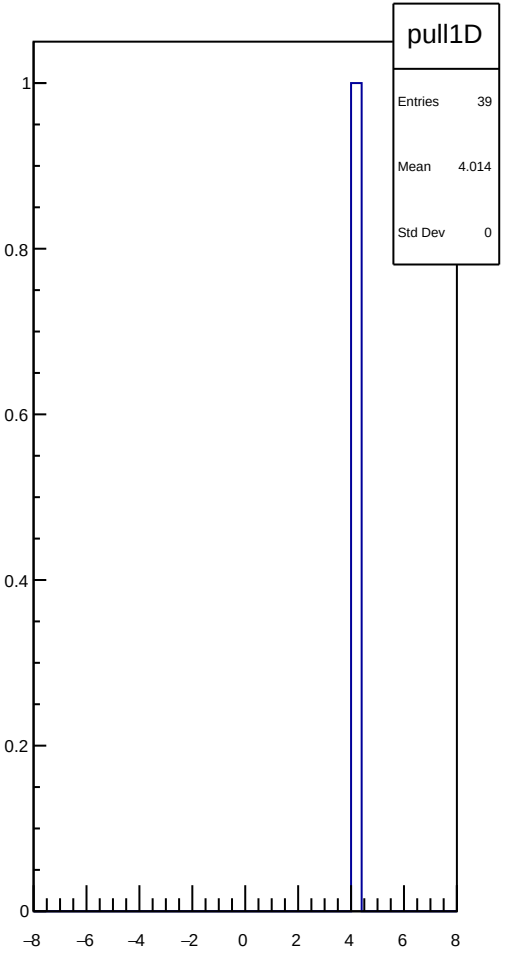

yield_bpm0l08Y_rms vs run
χ² / ndf 1.176e+05 / 38
p0 0.005938 ± 7.42e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

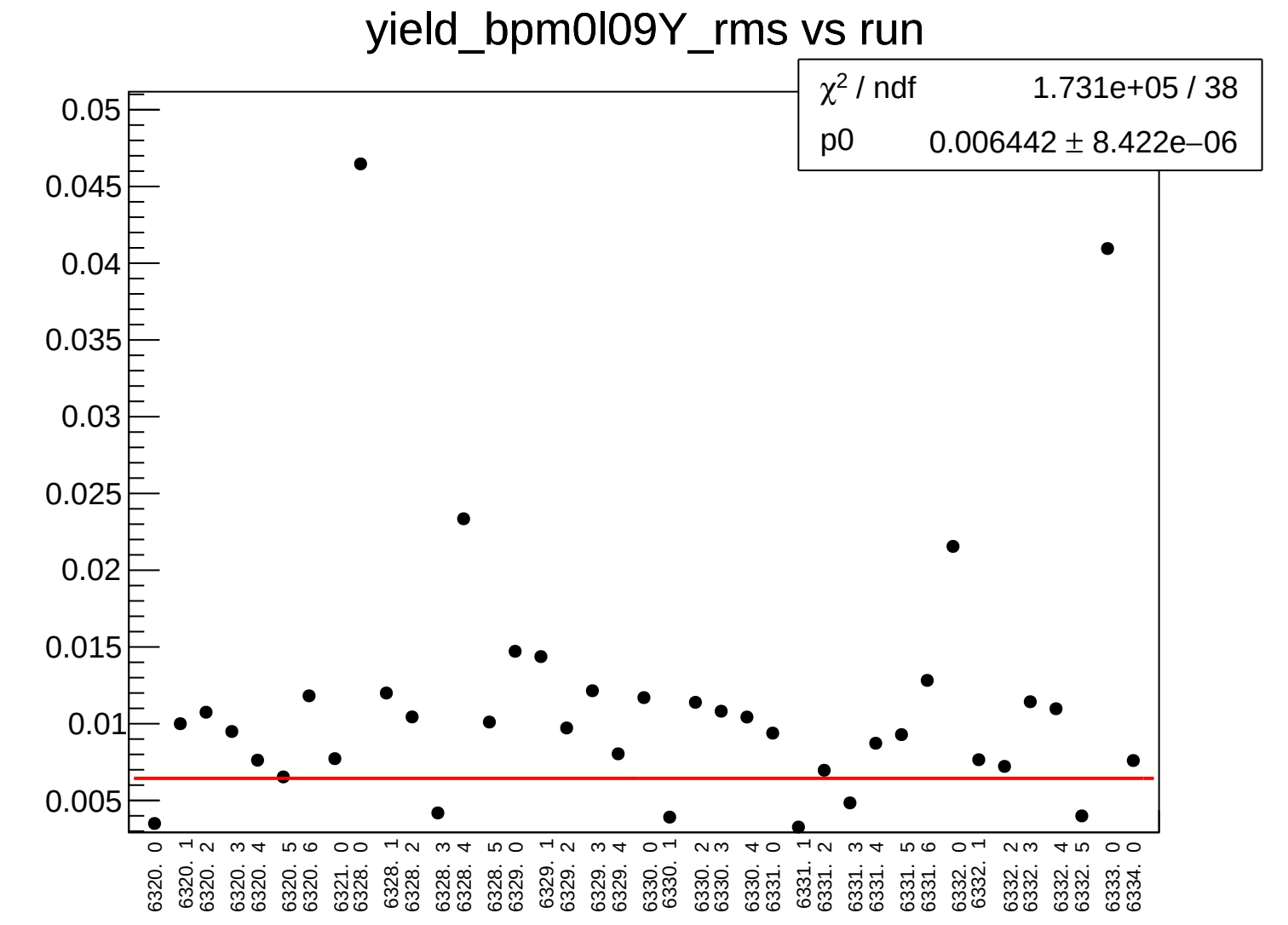

yield_bpm0l09X_mean vs run
χ² / ndf 1.656e+05 / 38
p0 0.9044 ± 1.982e−05
0.92
0.91
0.9
0.89
0.88
0.87
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.49
Std Dev 0
100
50
0
−50
−100
−150

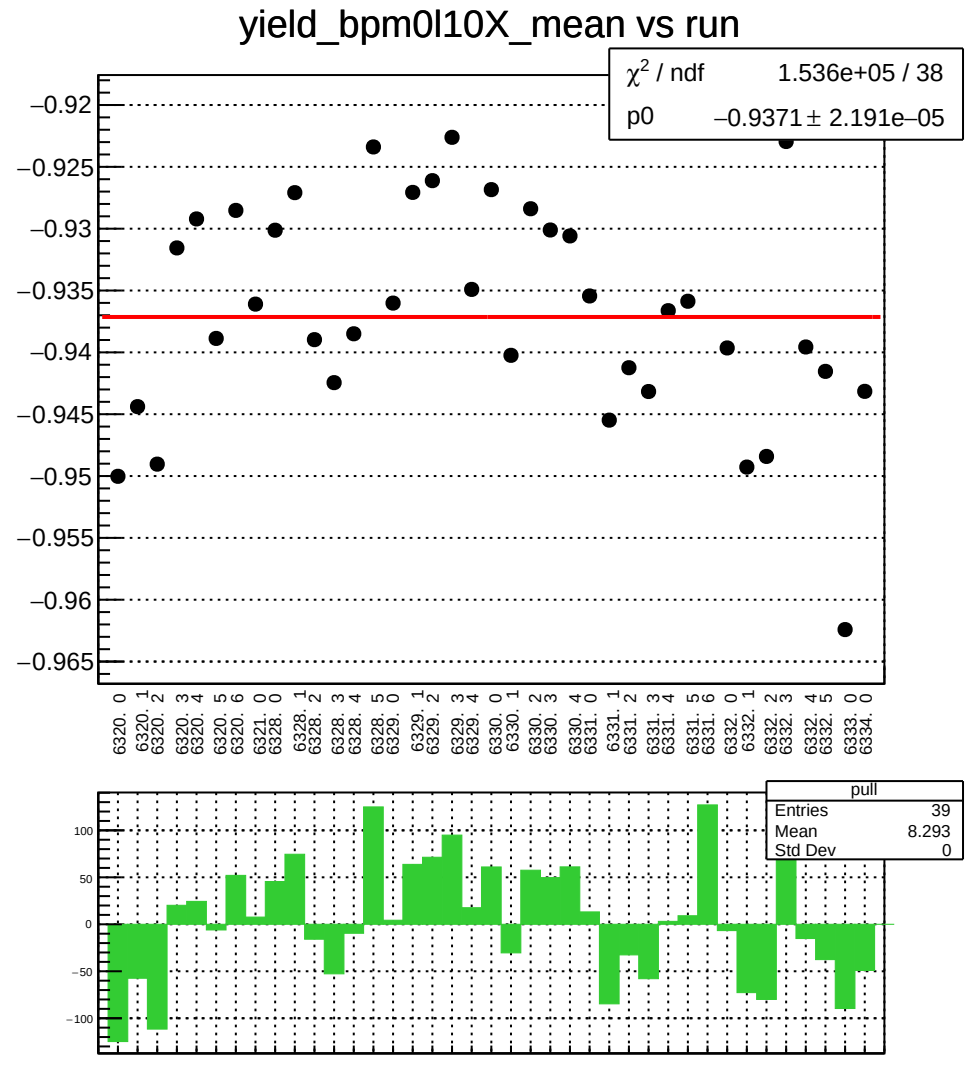

pull1D
Entries 39
Mean −1.679
Std Dev 3.35
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

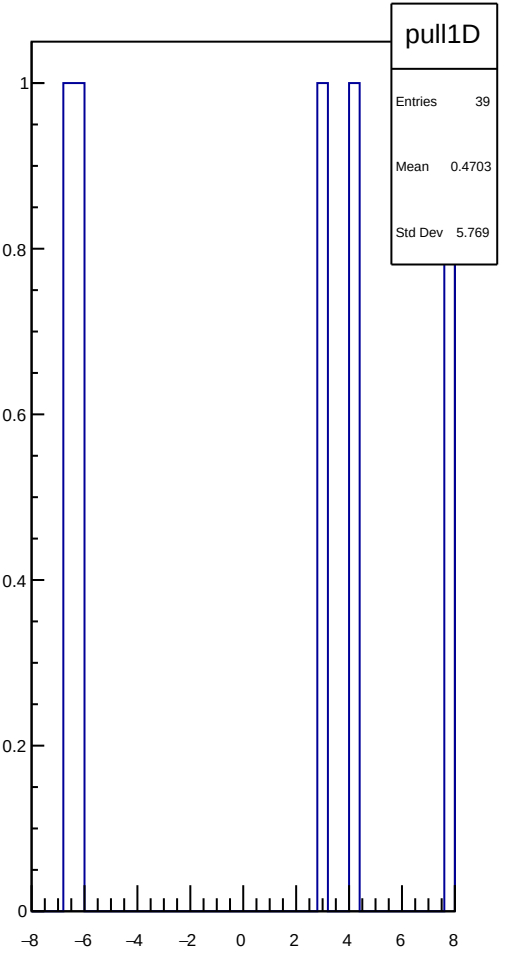

yield_bpm0l09X_rms vs run
χ² / ndf 4.915e+04 / 38
p0 0.0118 ± 1.402e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

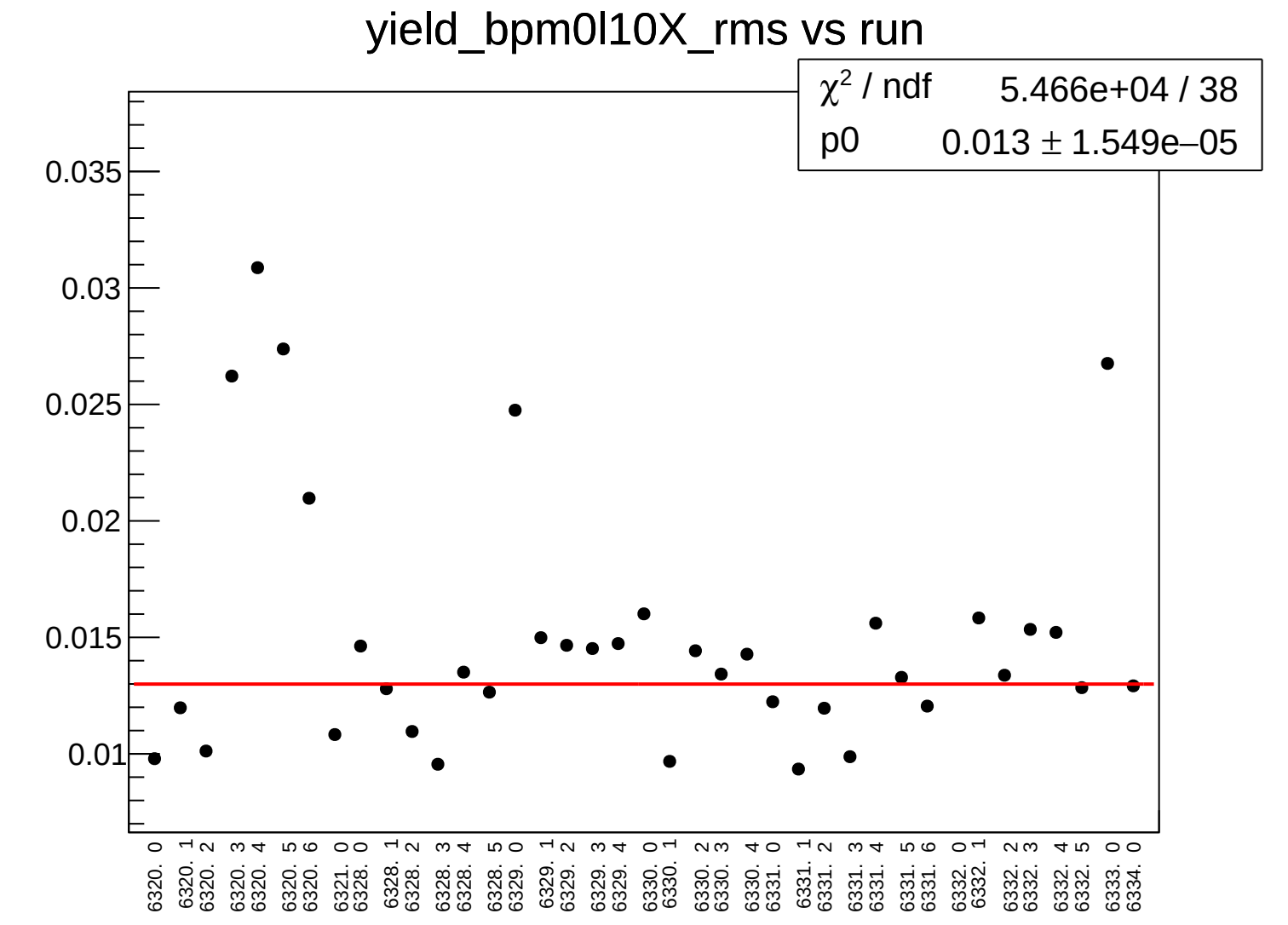

yield_bpm0l09Y_mean vs run
χ² / ndf 2.213e+06 / 38
p0 0.3072 ± 1.191e−05
0.36
0.34
0.32
0.3
0.28
0.26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.92
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

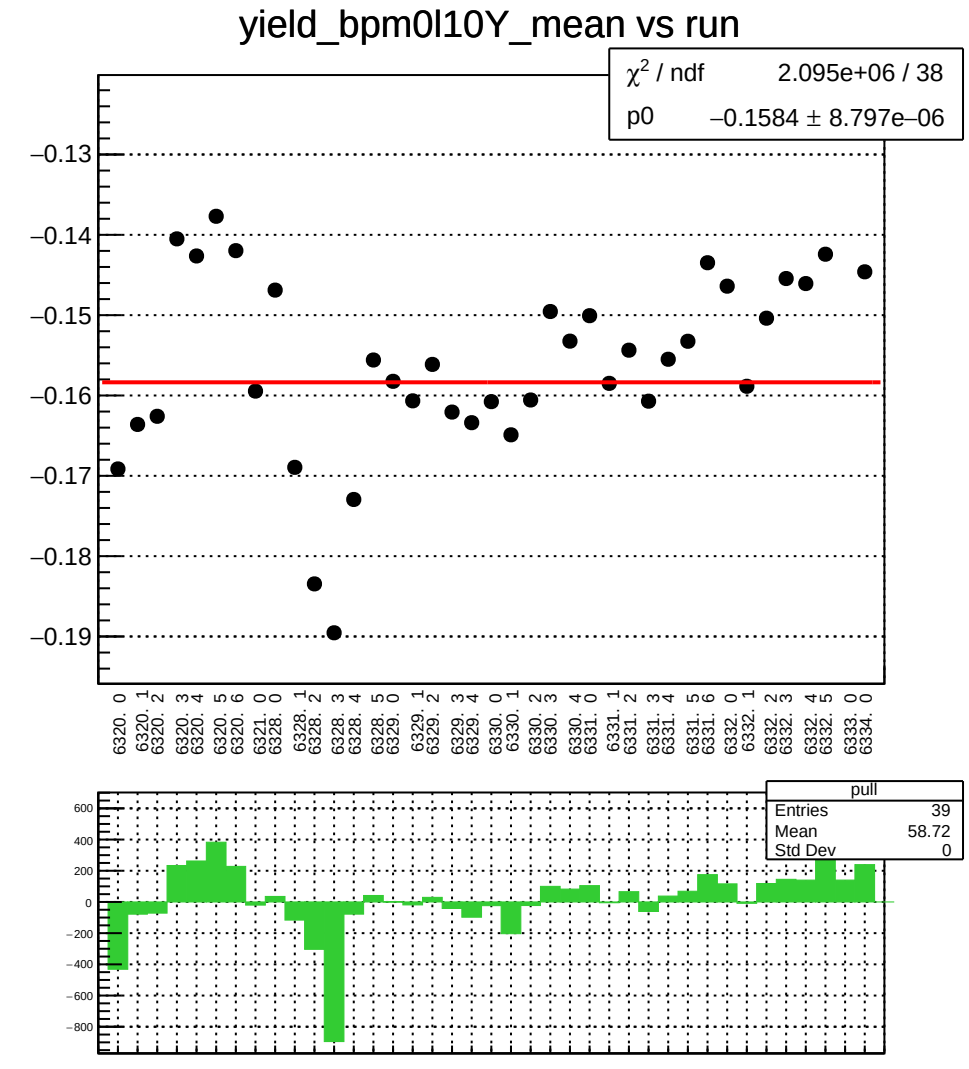

pull1D
Entries 39
Mean 4.014
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

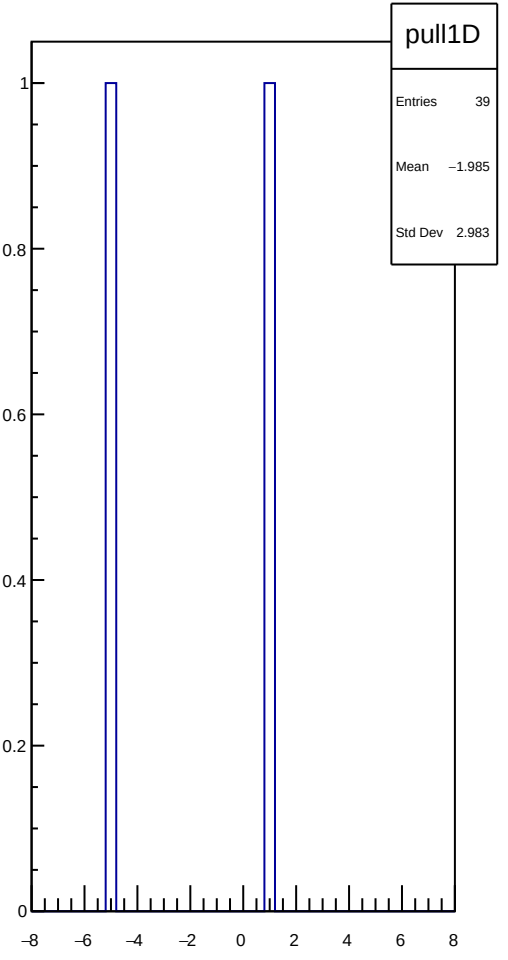

yield_bpm0l09Y_rms vs run
χ² / ndf 1.731e+05 / 38
p0 0.006442 ± 8.422e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

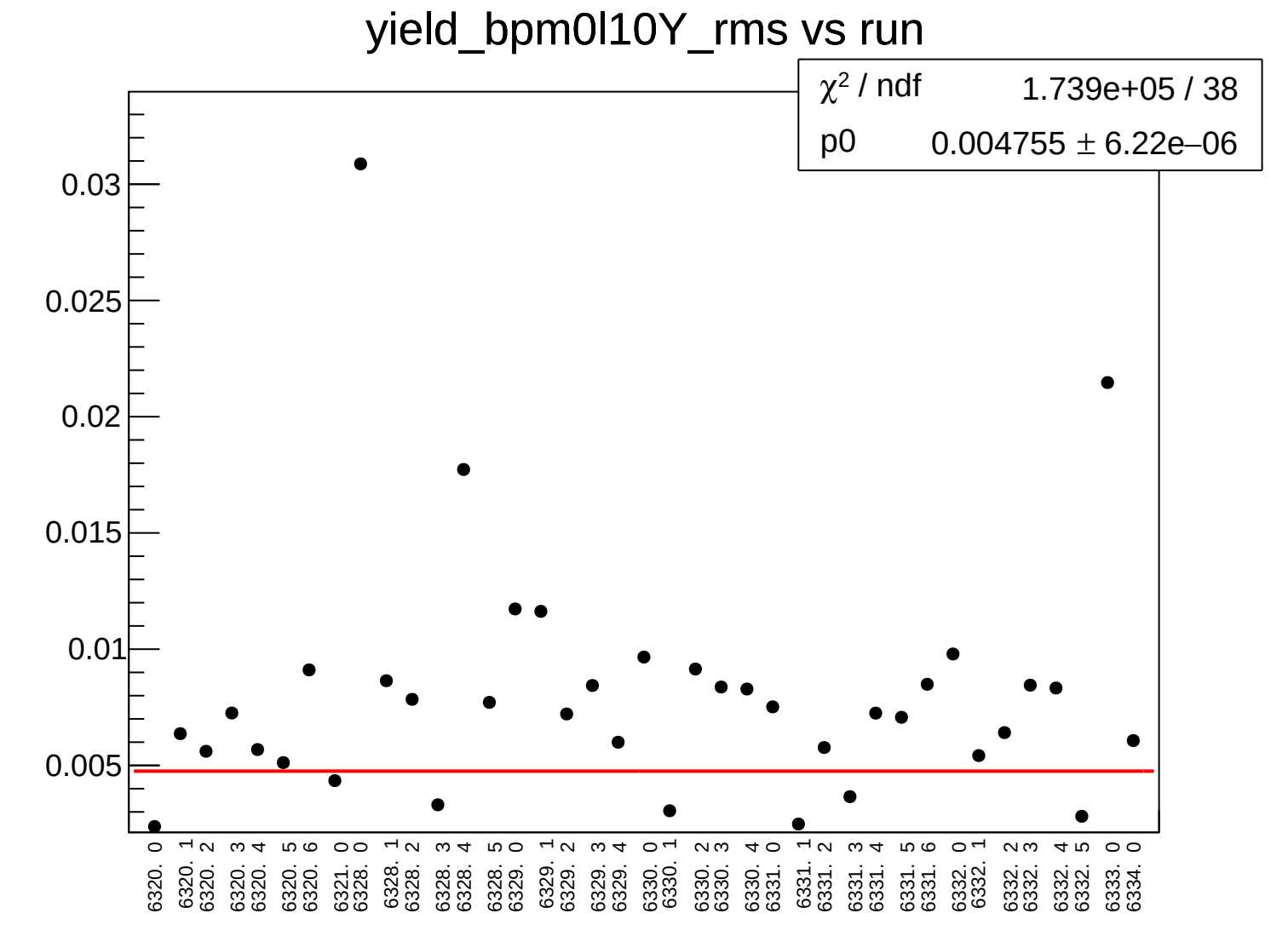

yield_bpm0l10X_mean vs run
χ² / ndf 1.536e+05 / 38
p0 −0.9371 ± 2.191e−05
−0.92
−0.925
−0.93
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.293
Std Dev 0
100
50
0
−50
−100

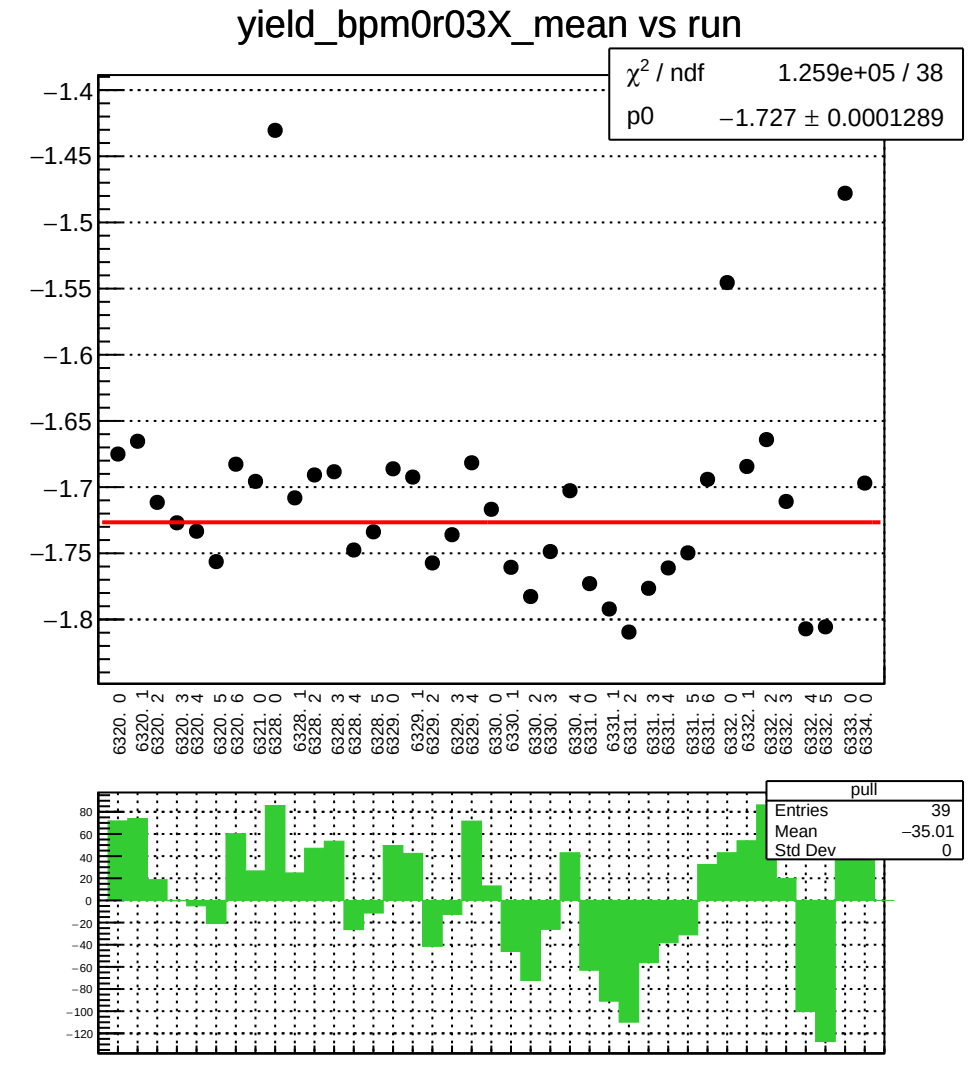

pull1D
Entries 39
Mean 0.4703
Std Dev 5.769
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

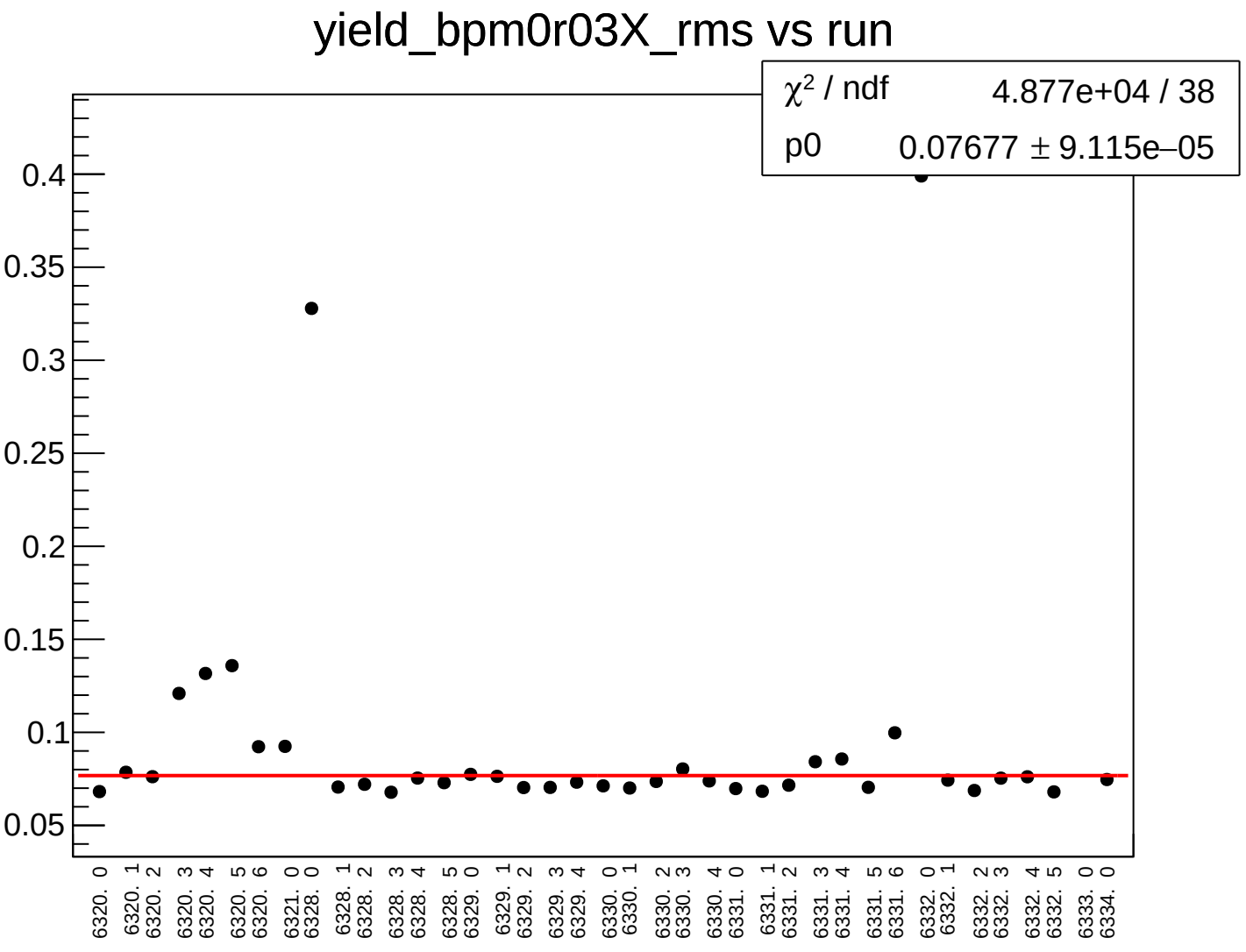

yield_bpm0l10X_rms vs run
χ² / ndf 5.466e+04 / 38
p0 0.013 ± 1.549e–05
0.035
0.03
0.025
0.02
0.015
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

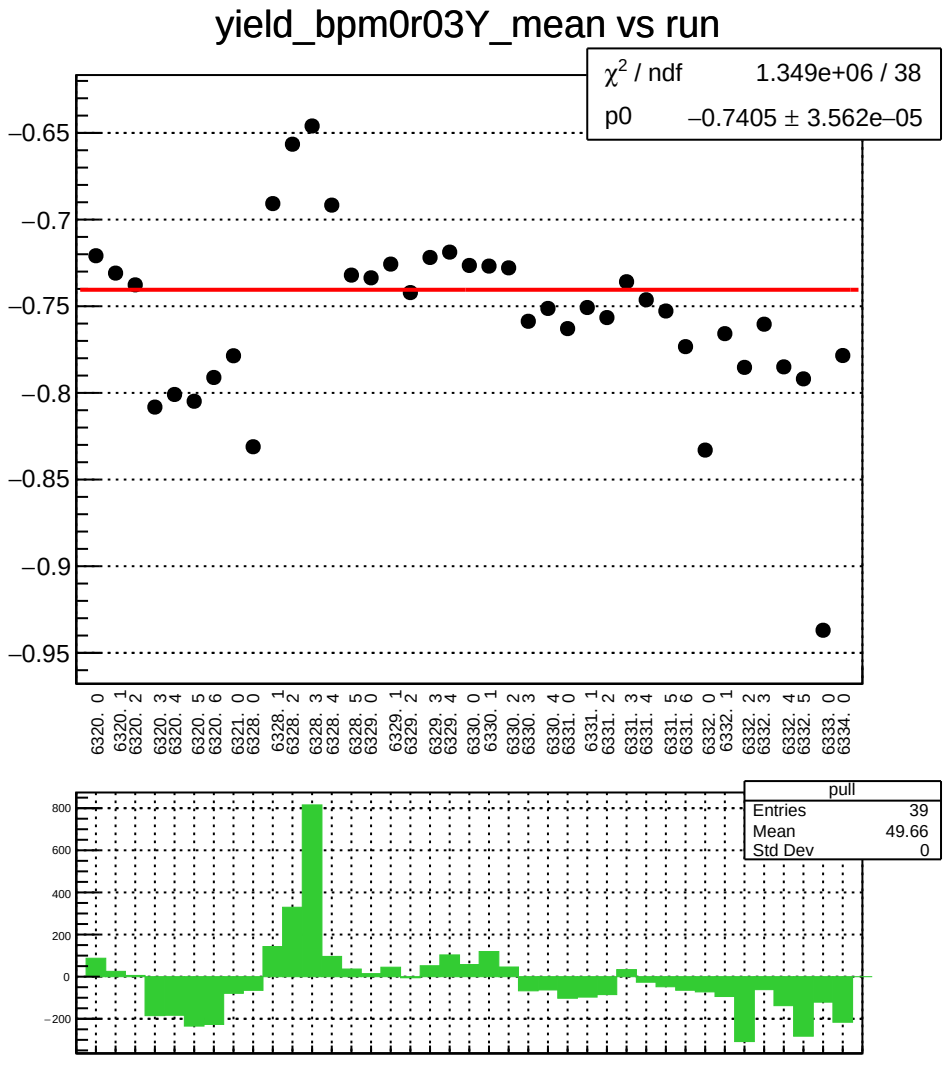

yield_bpm0l10Y_mean vs run
χ² / ndf 2.095e+06 / 38
p0 −0.1584 ± 8.797e−06
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.72
Std Dev 0
600
400
200
0
−200
−400
−600
−800

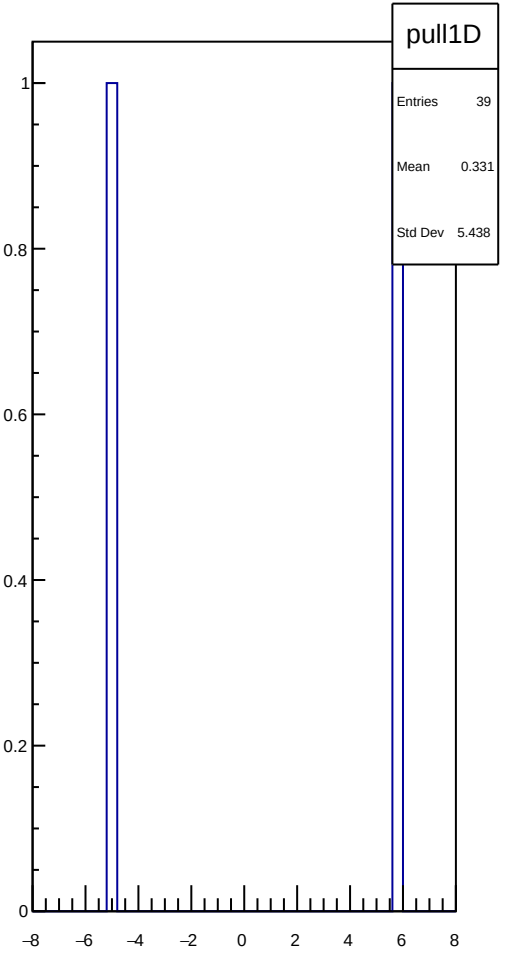

pull1D
Entries 39
Mean −1.985
Std Dev 2.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

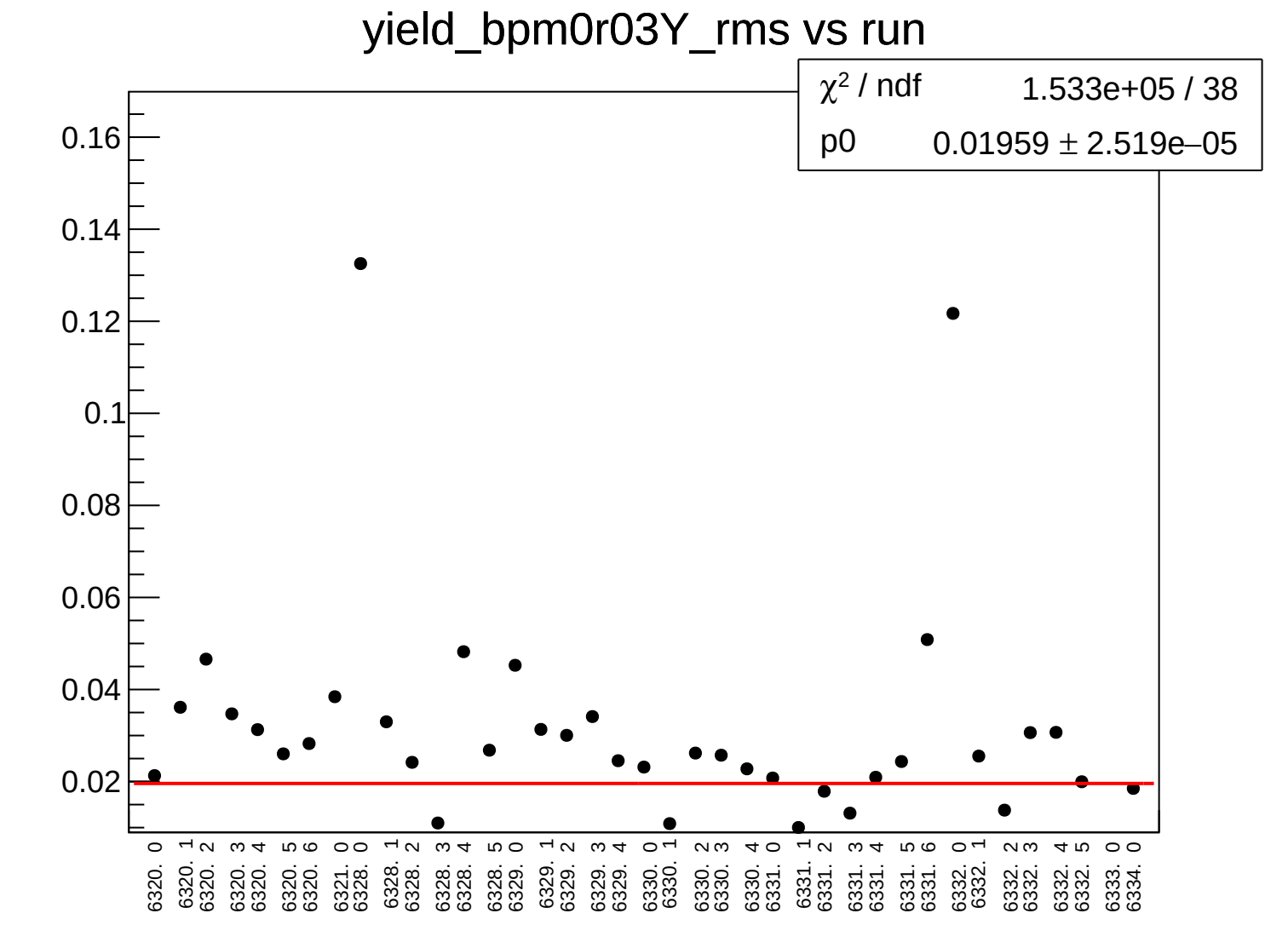

yield_bpm0l10Y_rms vs run
χ² / ndf 1.739e+05 / 38
p0 0.004755 ± 6.22e–06
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

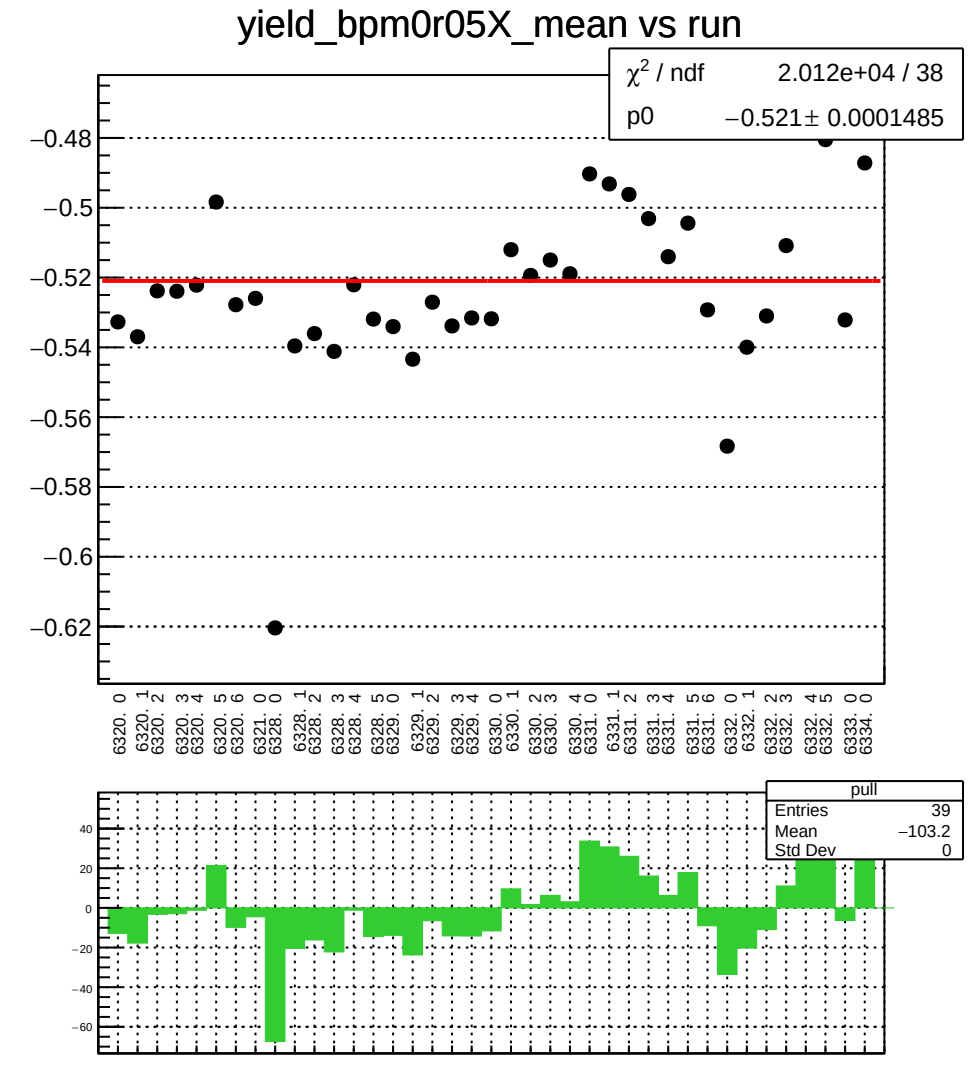

yield_bpm0r03X_mean vs run
χ² / ndf 1.259e+05 / 38
p0 −1.727 ± 0.0001289
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
−1.7
−1.75
−1.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.01
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 39
Mean −2.575
Std Dev 2.278
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

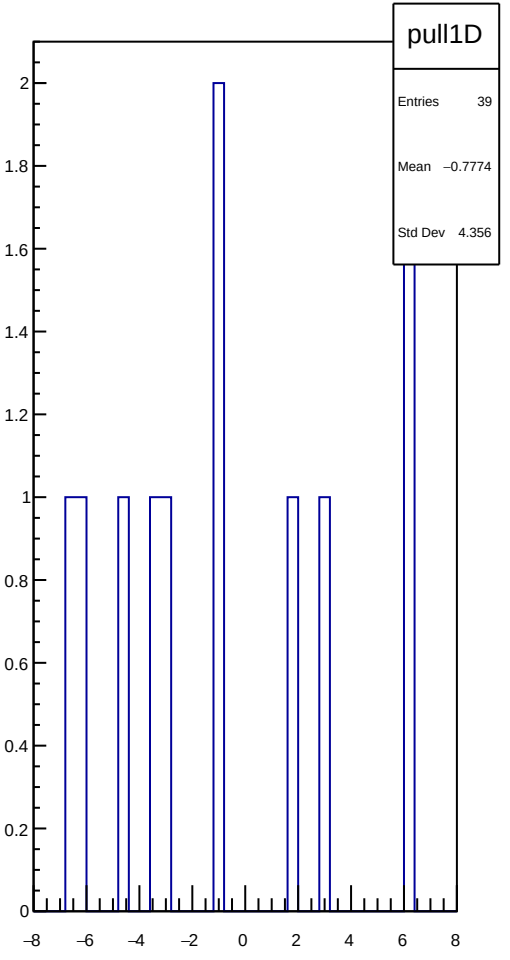

yield_bpm0r03X_rms vs run
χ² / ndf 4.877e+04 / 38
p0 0.07677 ± 9.115e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

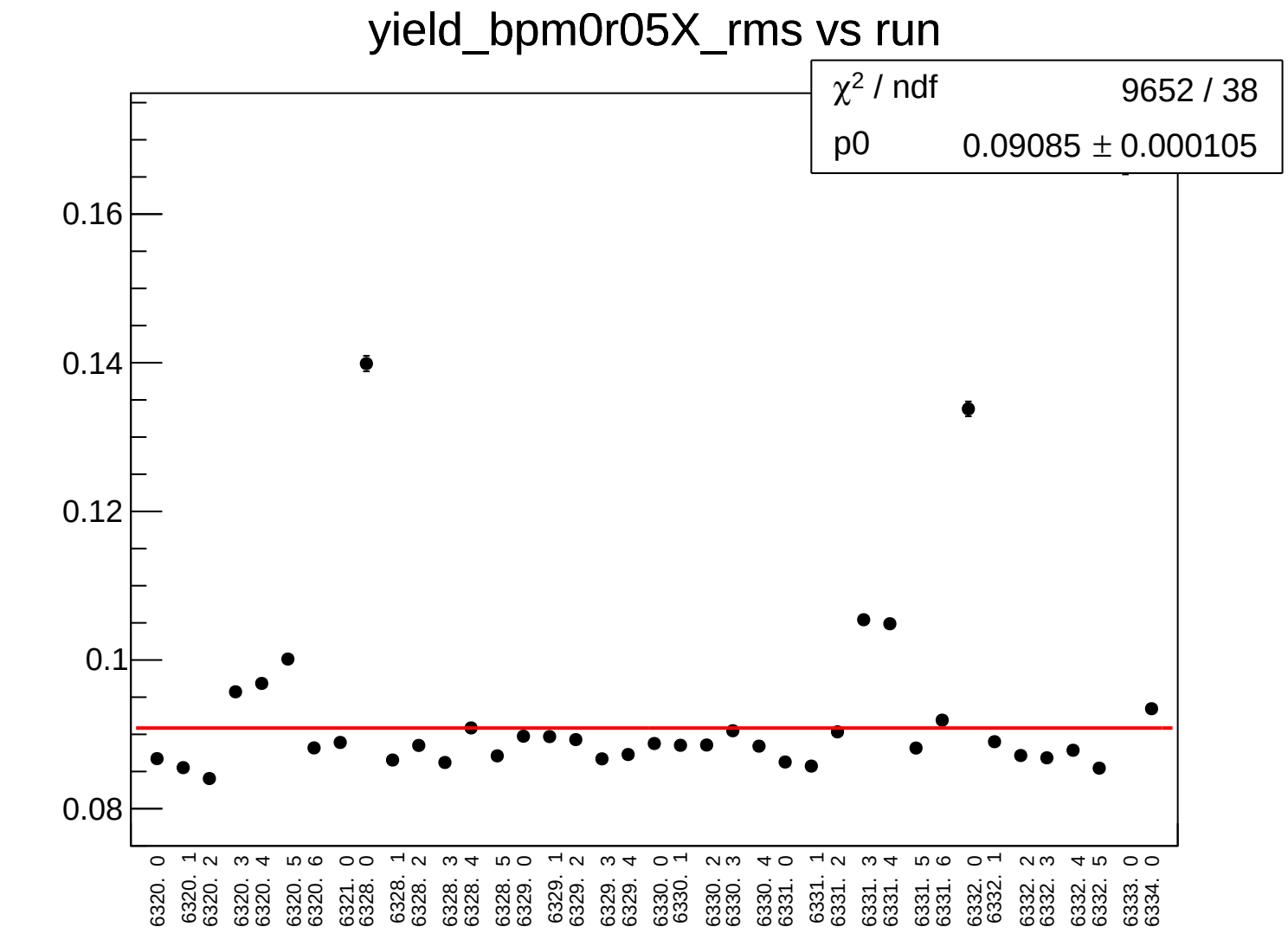

yield_bpm0r03Y_mean vs run
χ² / ndf 1.349e+06 / 38
p0 −0.7405 ± 3.562e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.66
Std Dev 0
800
600
400
200
0
−200

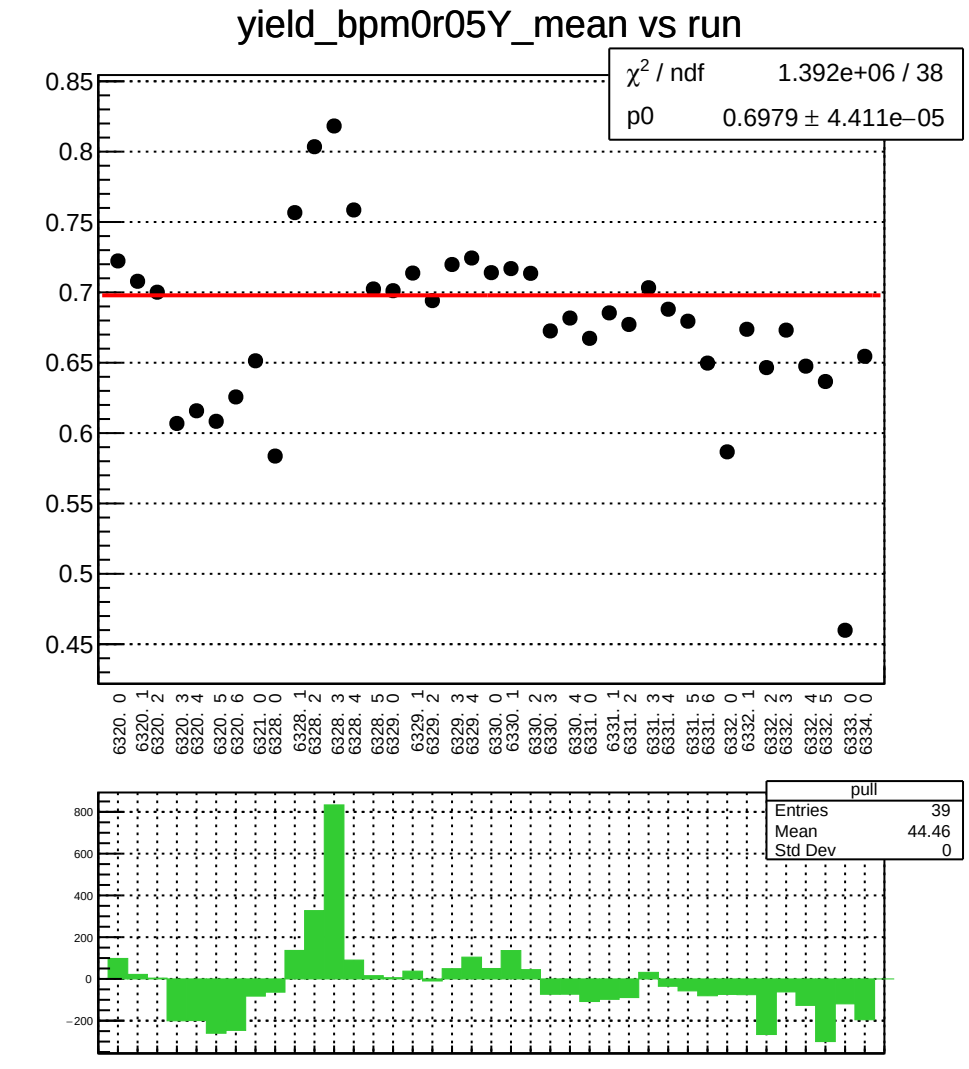

pull1D
Entries 39
Mean 0.331
Std Dev 5.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

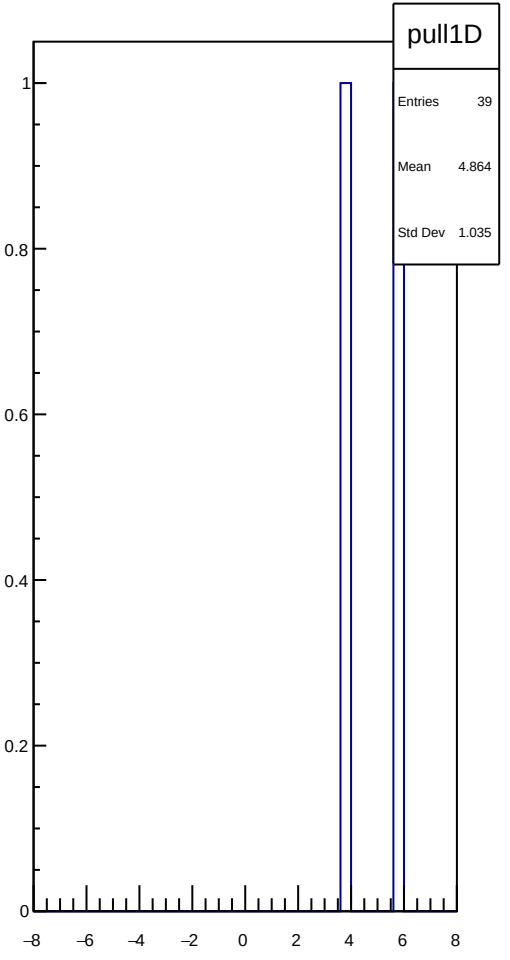

yield_bpm0r03Y_rms vs run
χ² / ndf 1.533e+05 / 38
p0 0.01959 ± 2.519e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

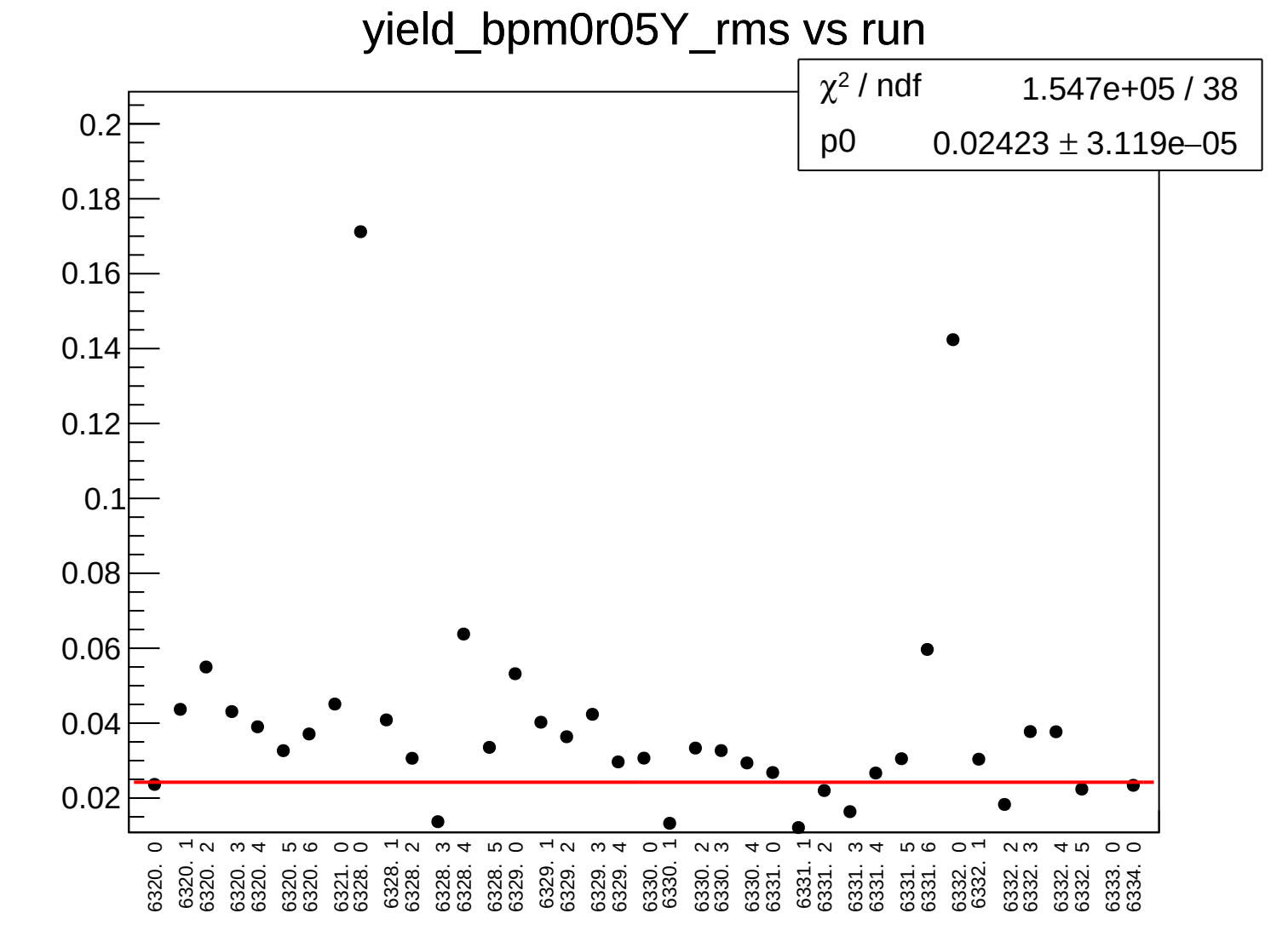

yield_bpm0r05X_mean vs run
χ² / ndf 2.012e+04 / 38
p0 −0.521± 0.0001485
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −103.2
Std Dev 0
40
20
0
−20
−40
−60

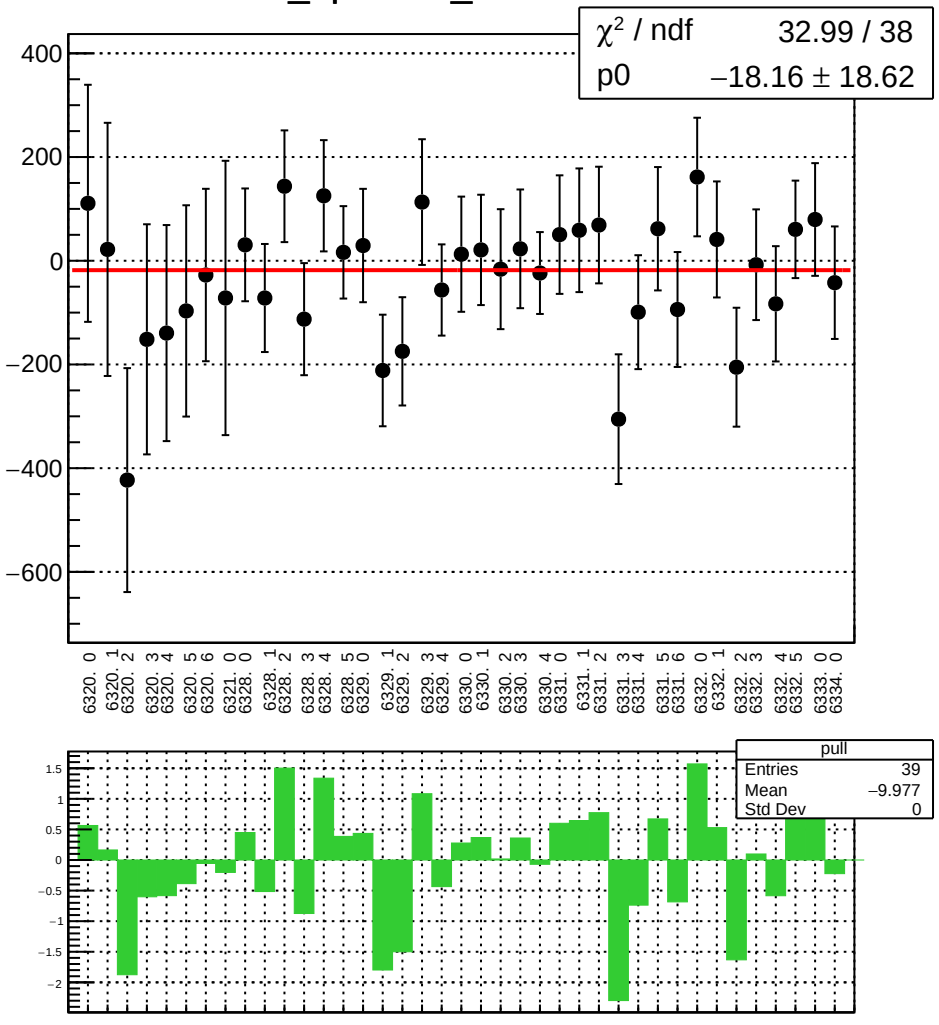

pull1D
Entries 39
Mean −0.7774
Std Dev 4.356
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

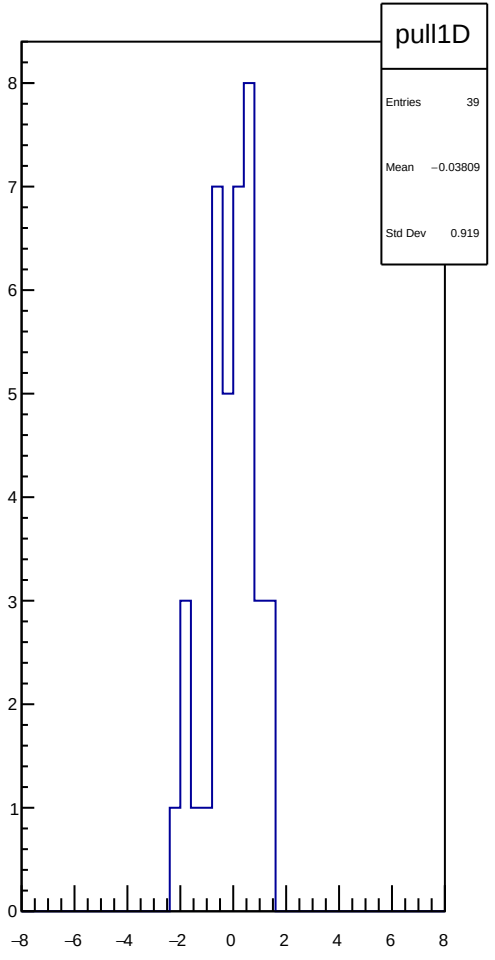

yield_bpm0r05X_rms vs run
χ² / ndf 9652 / 38
p0 0.09085 ± 0.000105
0.16
0.14
0.12
0.1
0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

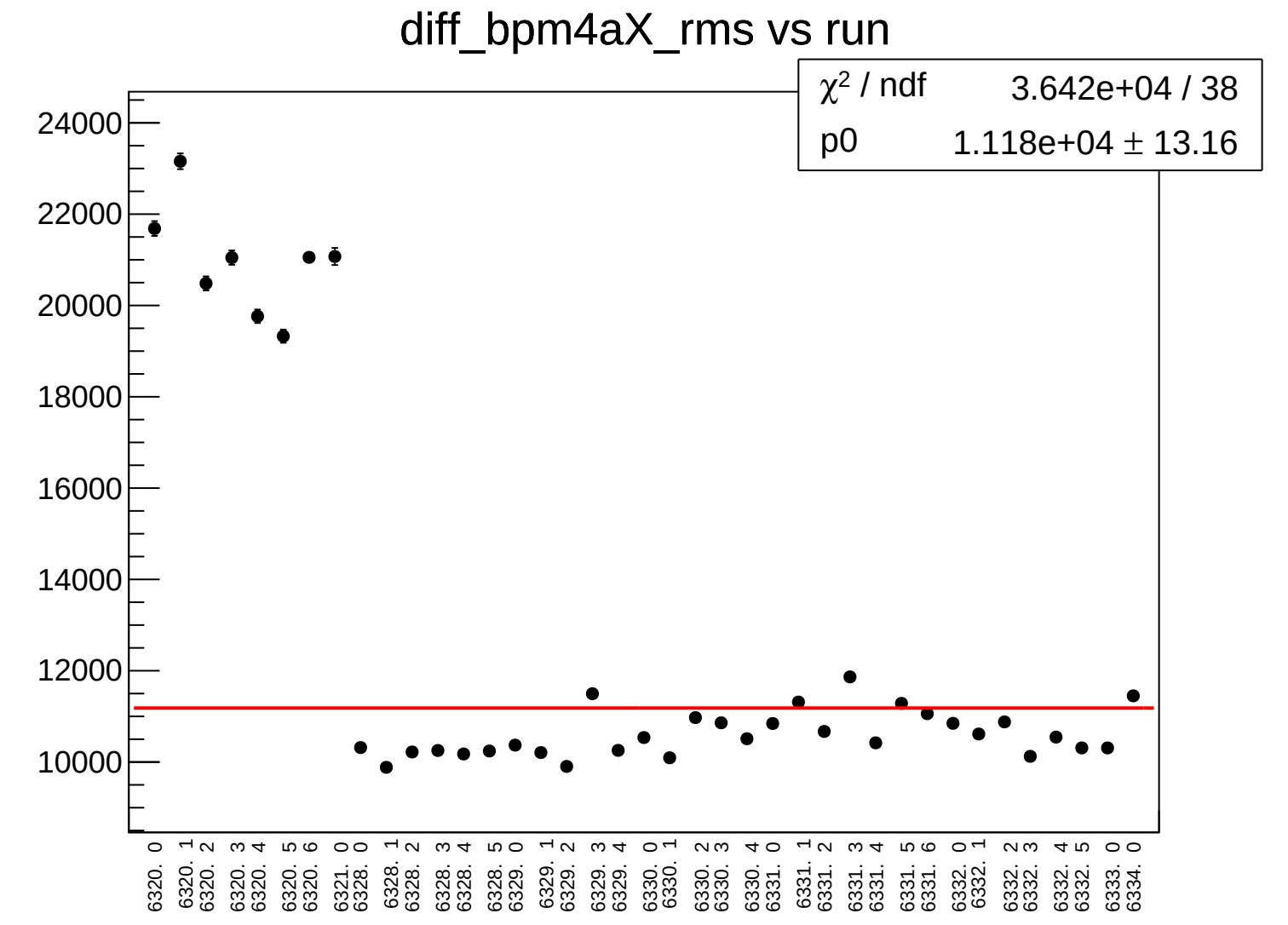

yield_bpm0r05Y_mean vs run
χ² / ndf 1.392e+06 / 38
p0 0.6979 ± 4.411e−05
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 44.46
Std Dev 0
800
600
400
200
0
−200

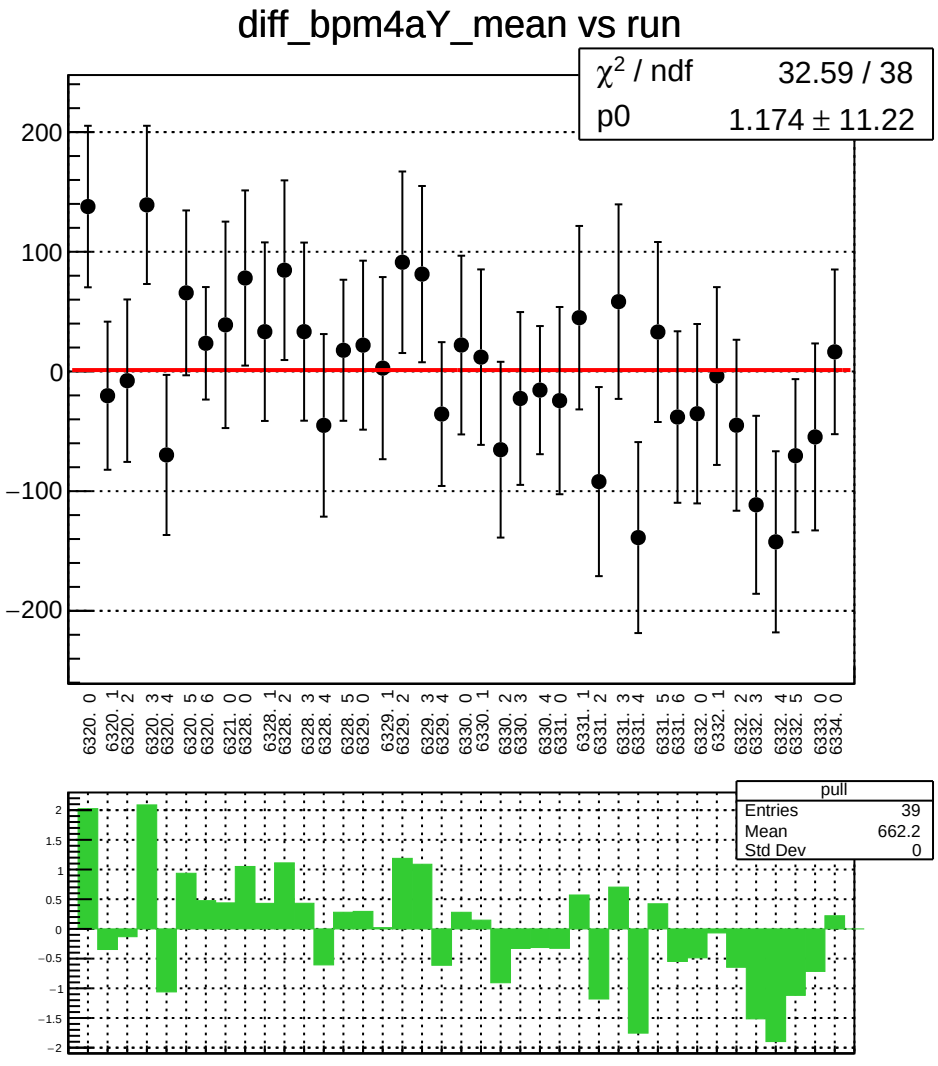

pull1D
Entries 39
Mean 4.864
Std Dev 1.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

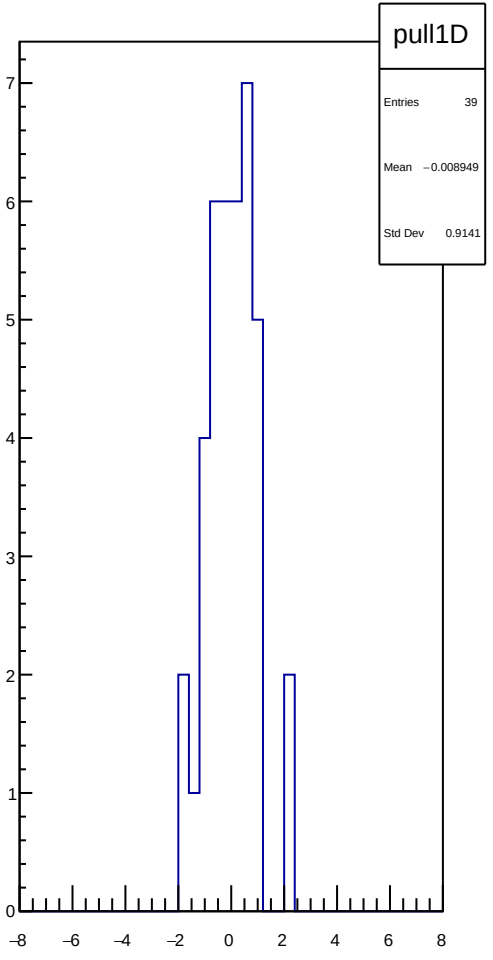

yield_bpm0r05Y_rms vs run
χ² / ndf 1.547e+05 / 38
p0 0.02423 ± 3.119e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

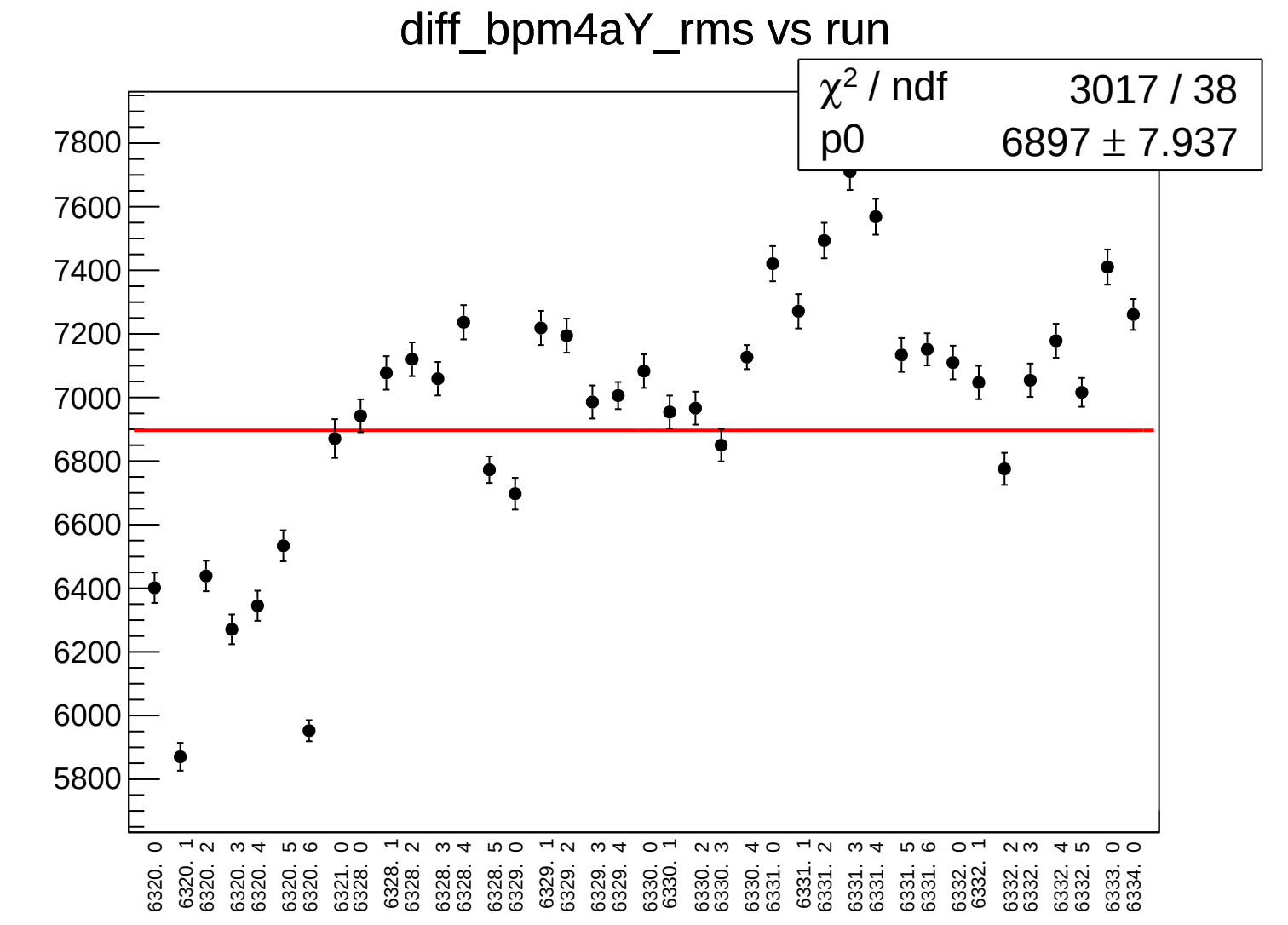

diff_bpm4aX_mean vs run
χ² / ndf 32.99 / 38
p0 −18.16 ± 18.62
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.977
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

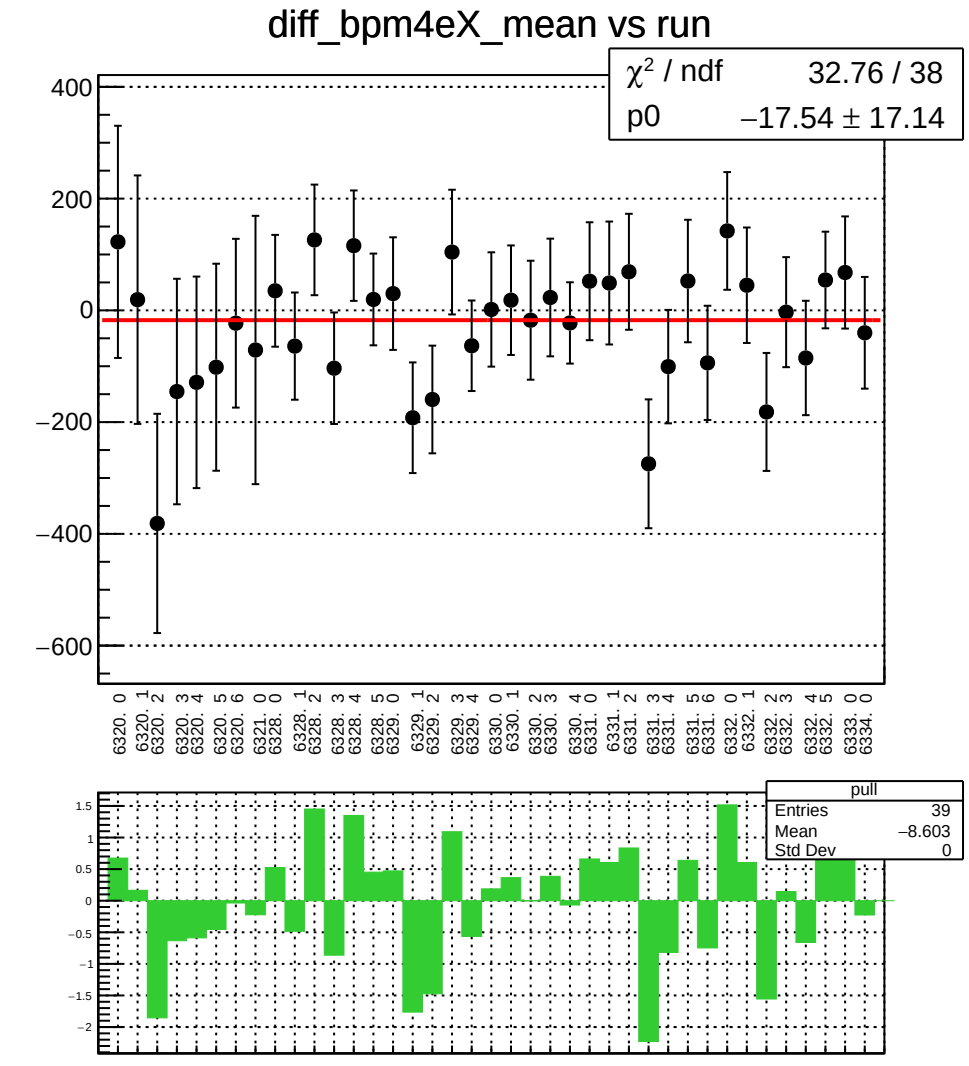

pull1D
Entries 39
Mean −0.03809
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

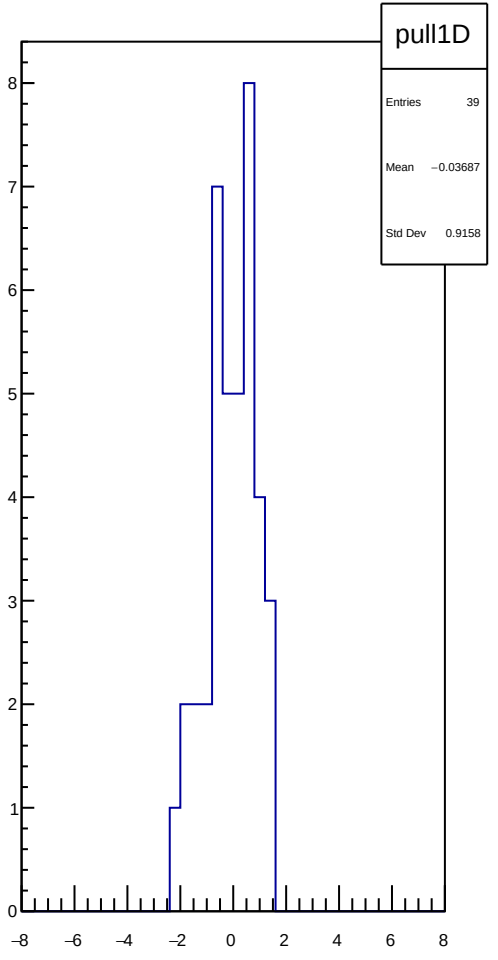

diff_bpm4aX_rms vs run
χ² / ndf 3.642e+04 / 38
p0 1.118e+04 ± 13.16
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

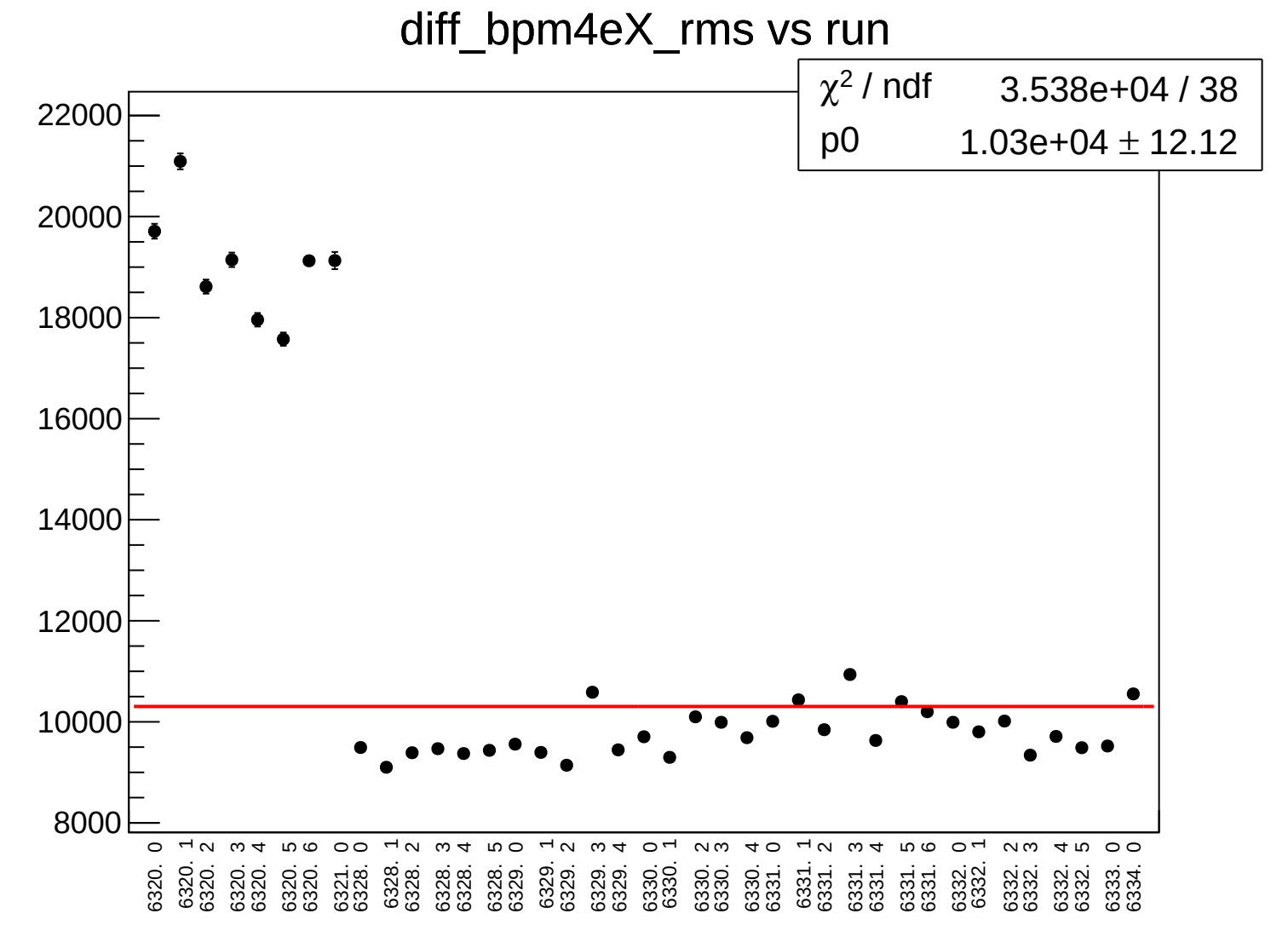

diff_bpm4aY_mean vs run
χ² / ndf 32.59 / 38
p0 1.174 ± 11.22
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 662.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

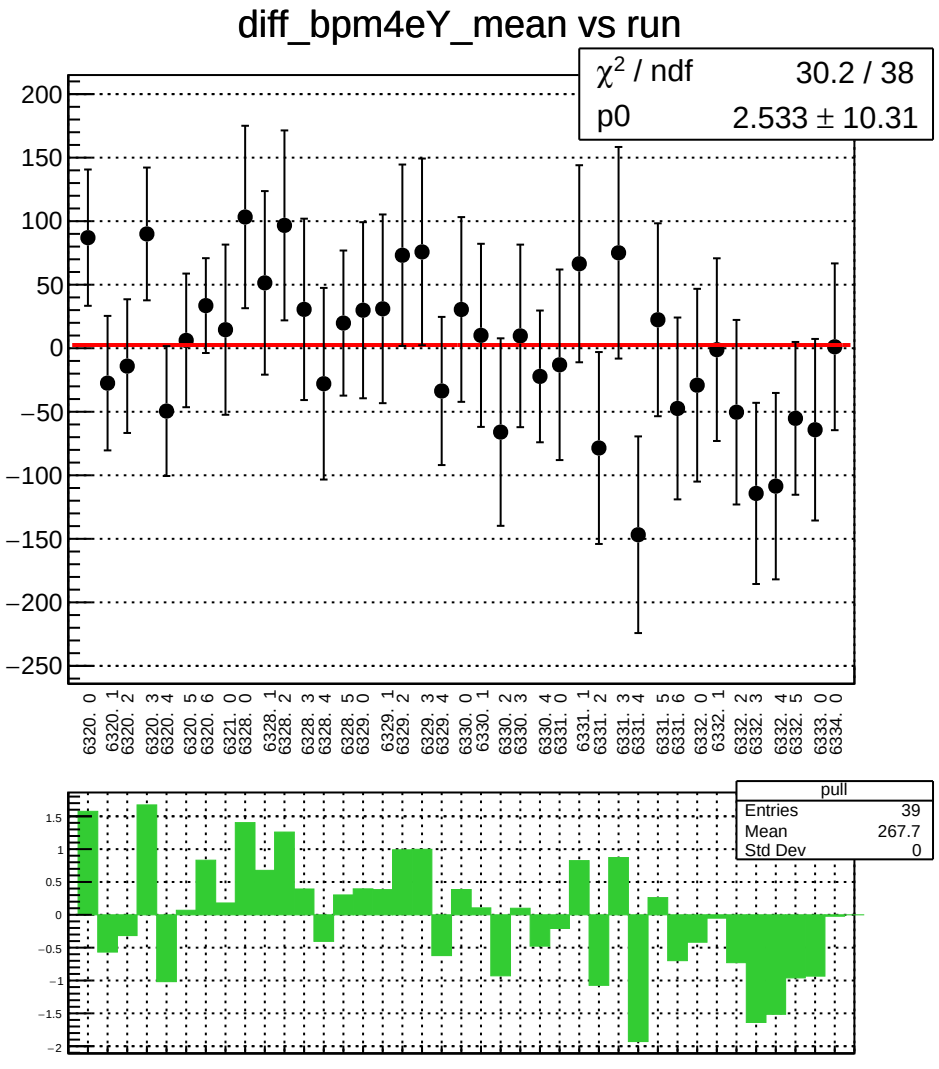

pull1D
Entries 39
Mean −0.008949
Std Dev 0.9141
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

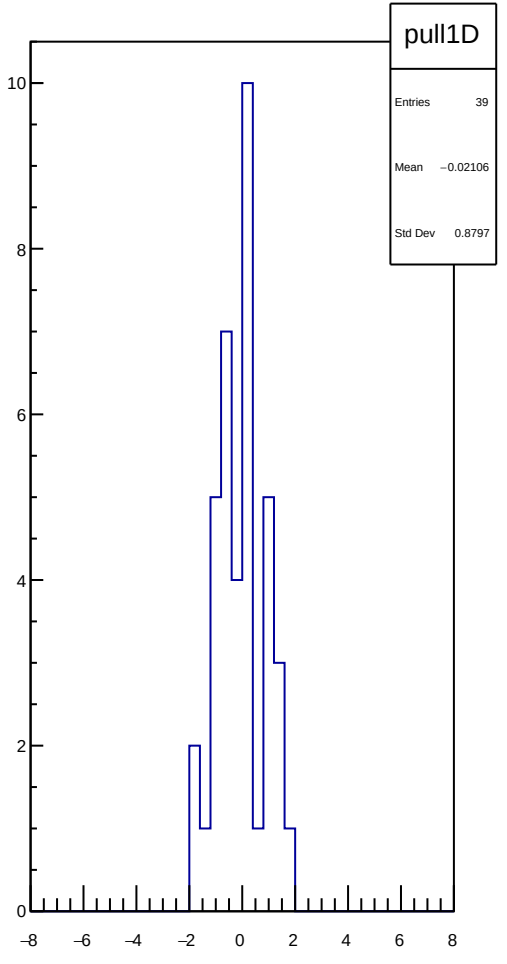

diff_bpm4aY_rms vs run
χ² / ndf 3017 / 38
p0 6897 ± 7.937
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

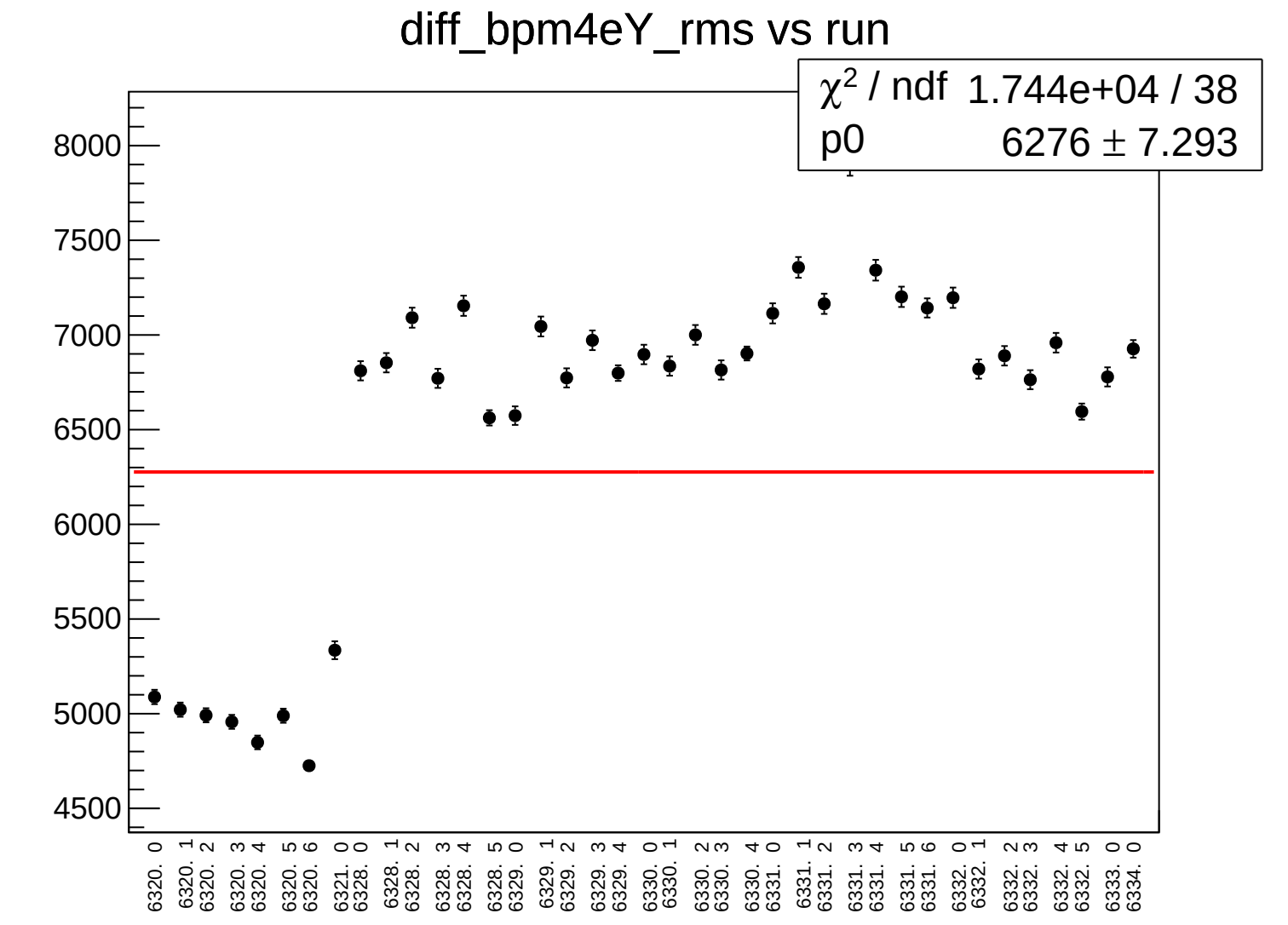

diff_bpm4eX_mean vs run
χ² / ndf 32.76 / 38
p0 −17.54 ± 17.14
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.603
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

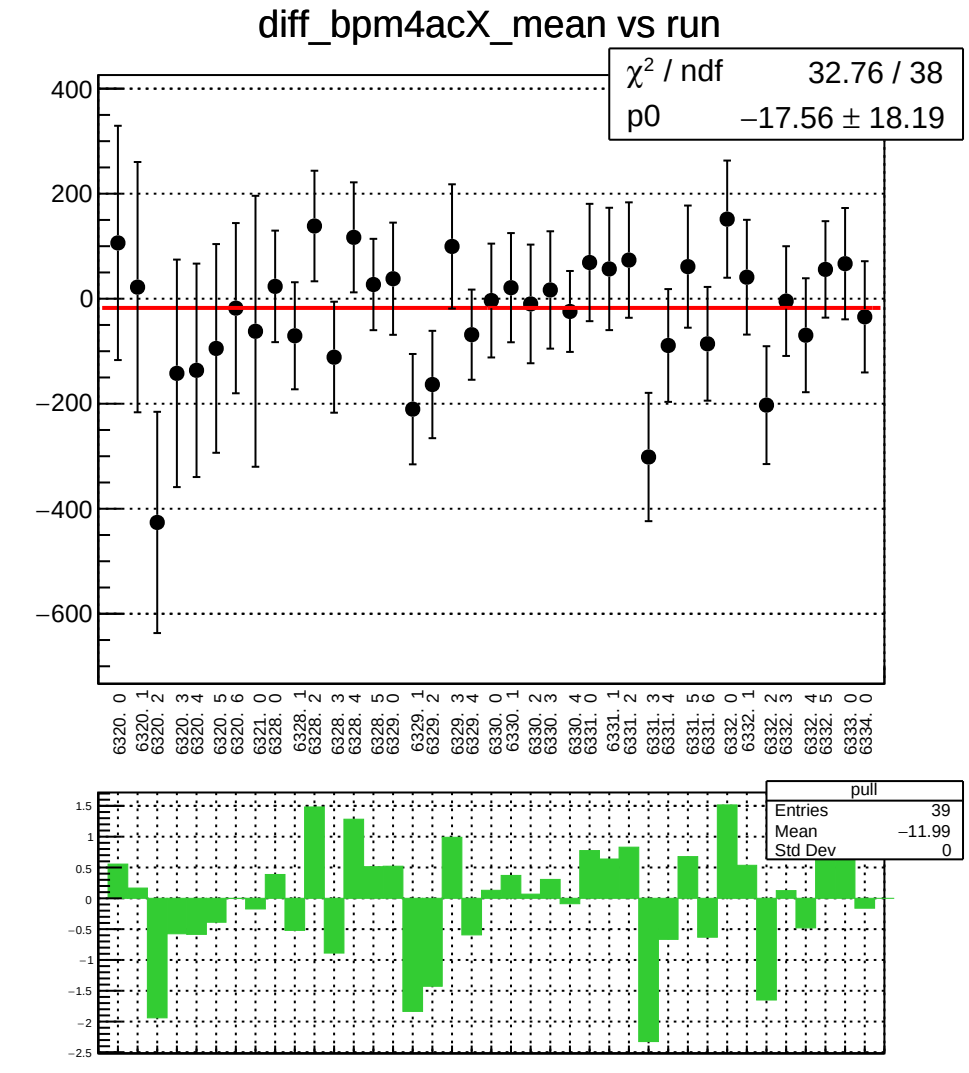

pull1D
Entries 39
Mean −0.03687
Std Dev 0.9158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

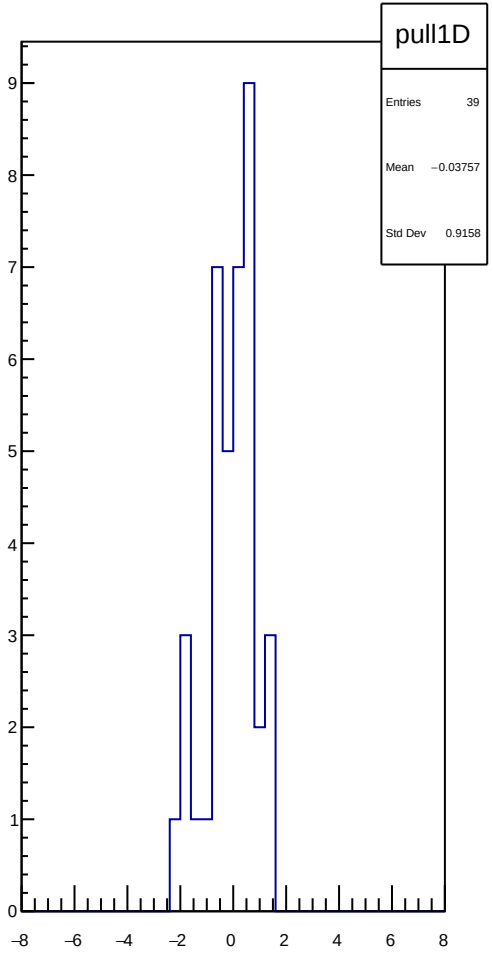

diff_bpm4eX_rms vs run
χ² / ndf 3.538e+04 / 38
p0 1.03e+04 ± 12.12
22000
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

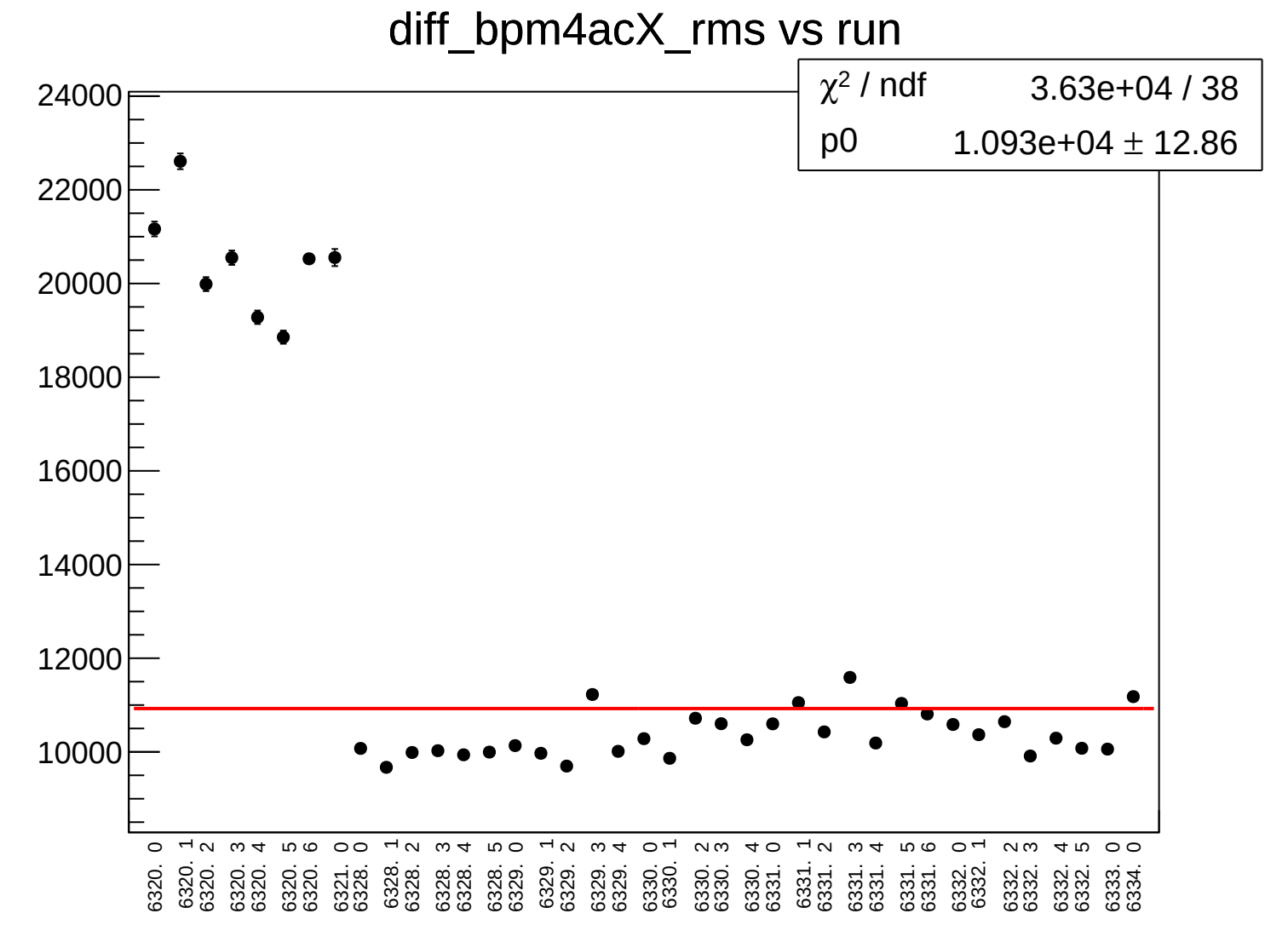

diff_bpm4eY_mean vs run
χ² / ndf 30.2 / 38
p0 2.533 ± 10.31
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 267.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

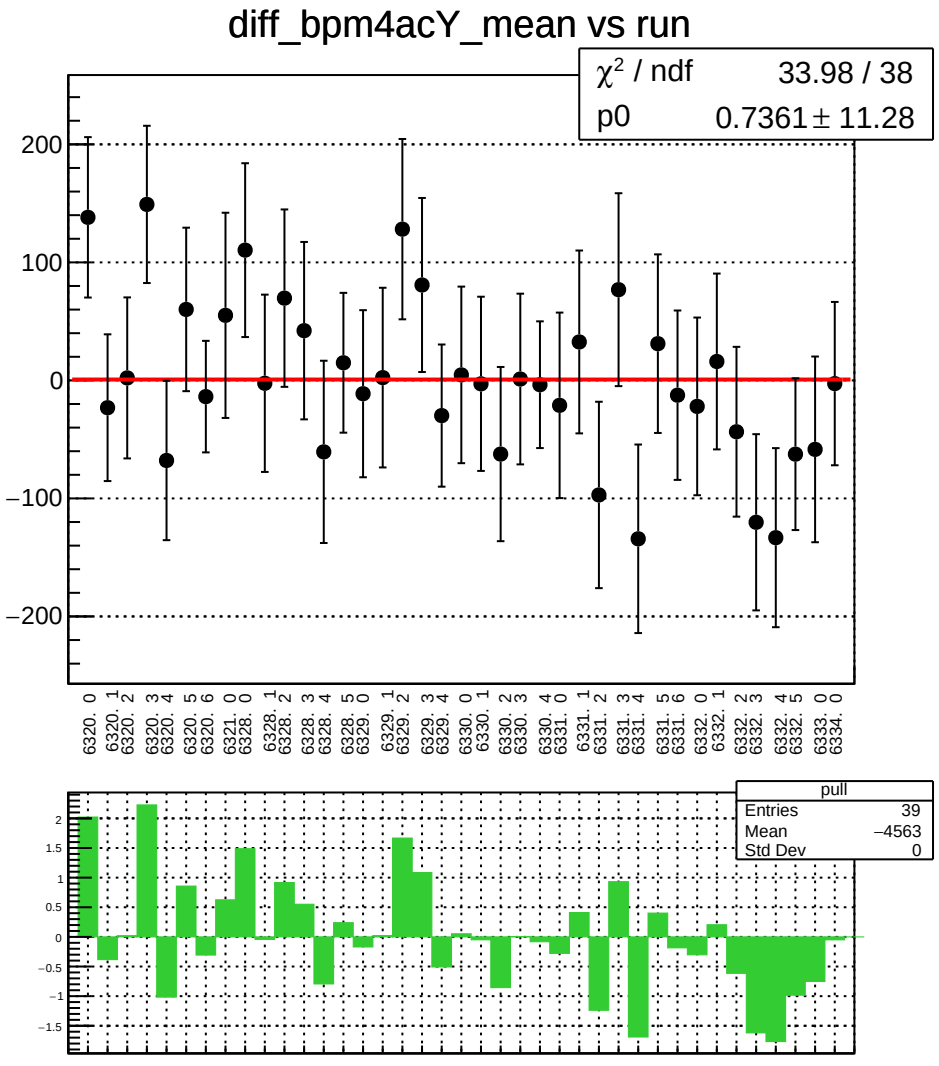

pull1D
Entries 39
Mean −0.02106
Std Dev 0.8797
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

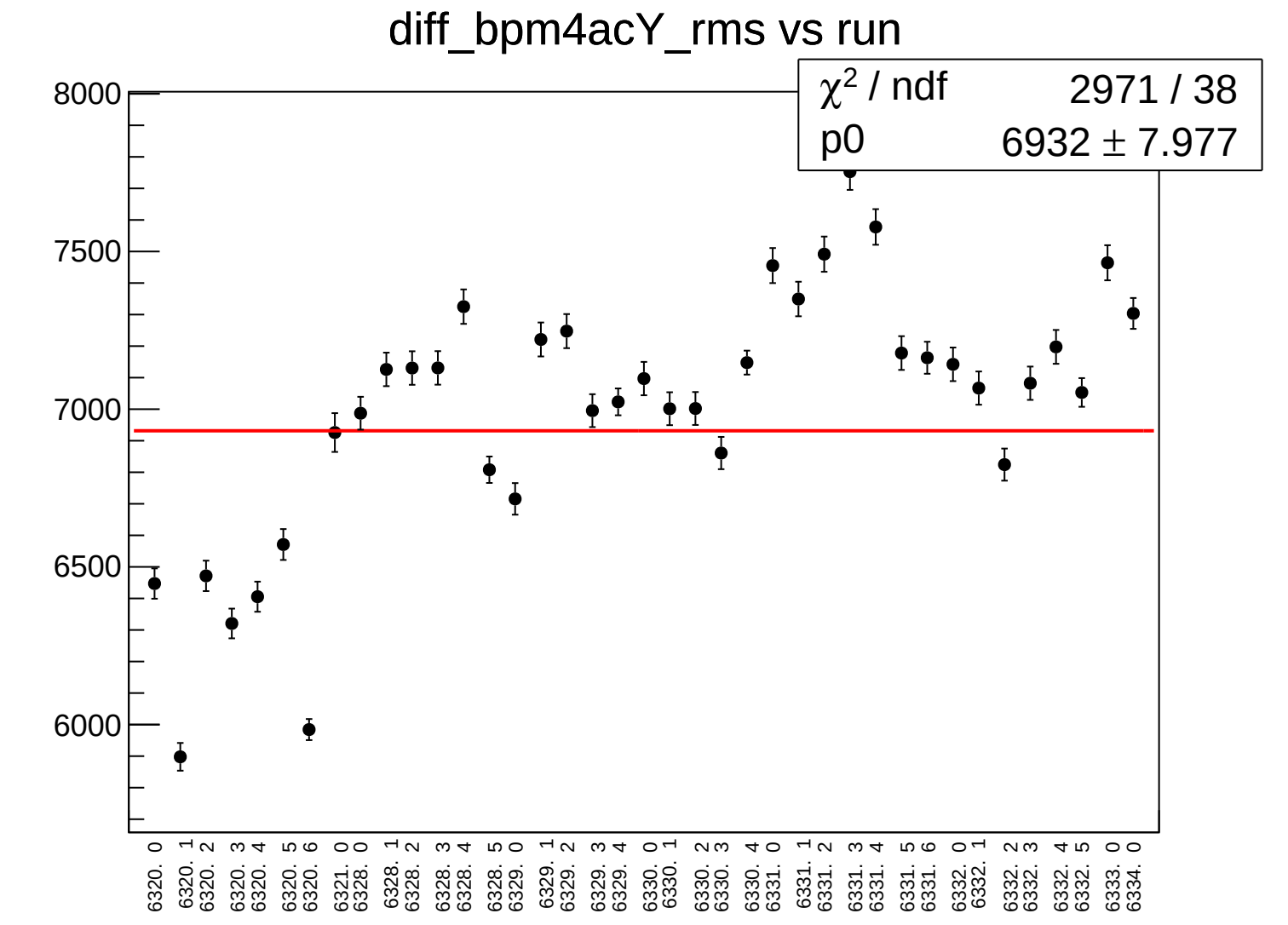

diff_bpm4eY_rms vs run
χ² / ndf 1.744e+04 / 38
p0 6276 ± 7.293
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

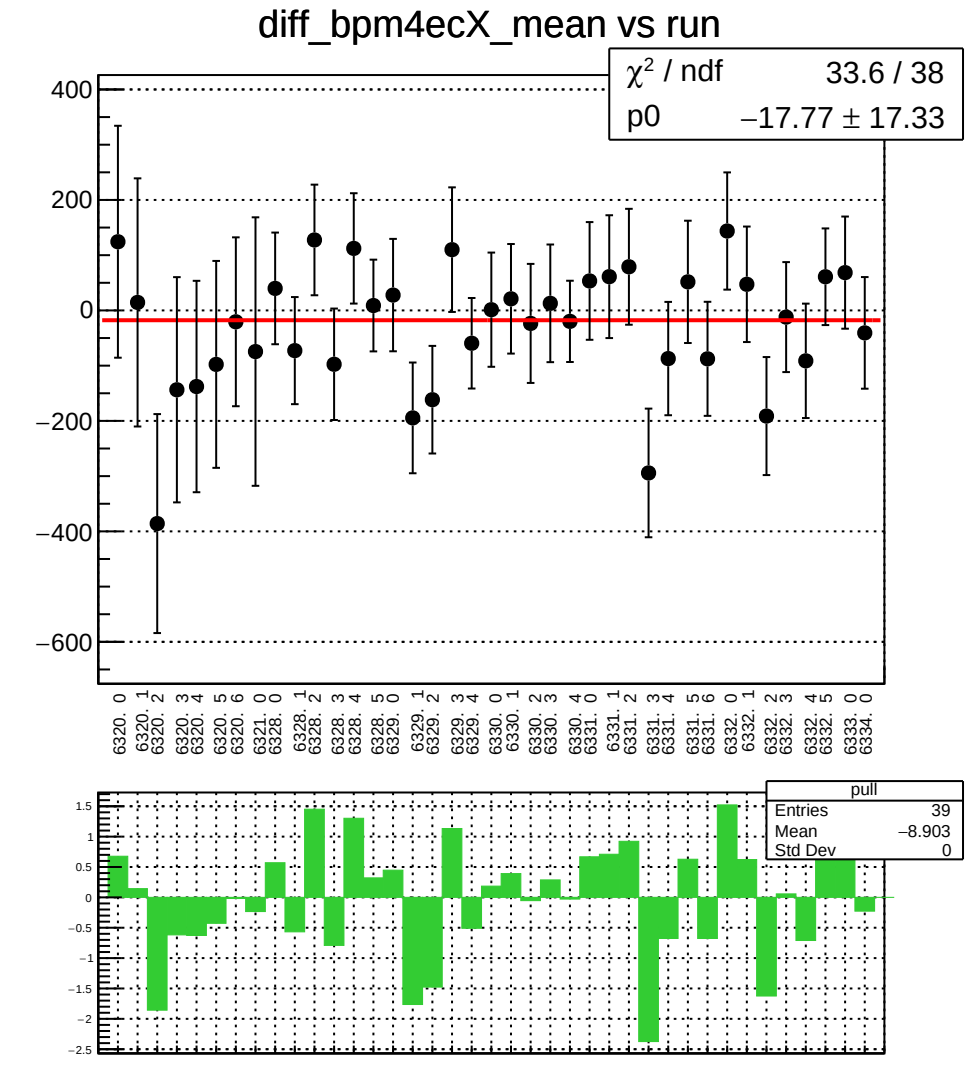

diff_bpm4acX_mean vs run
χ² / ndf 32.76 / 38
p0 −17.56 ± 18.19
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −11.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

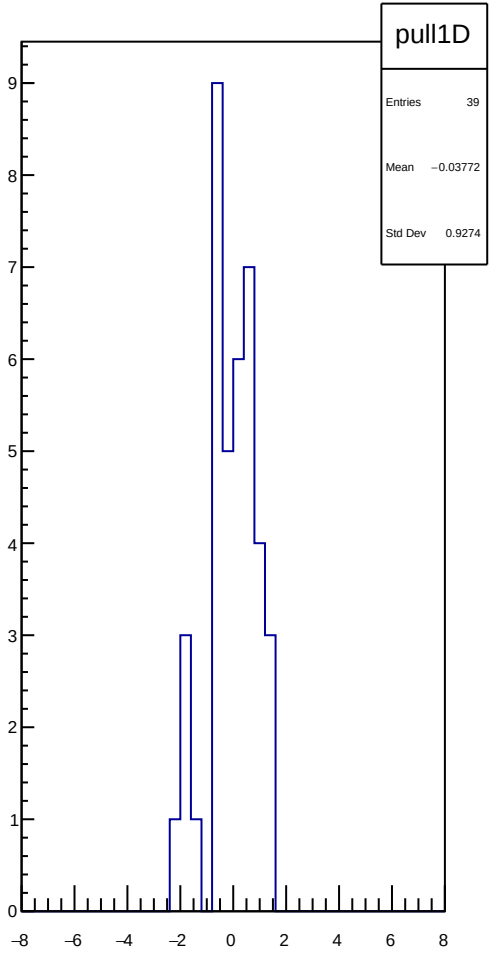

pull1D
Entries 39
Mean −0.03757
Std Dev 0.9158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

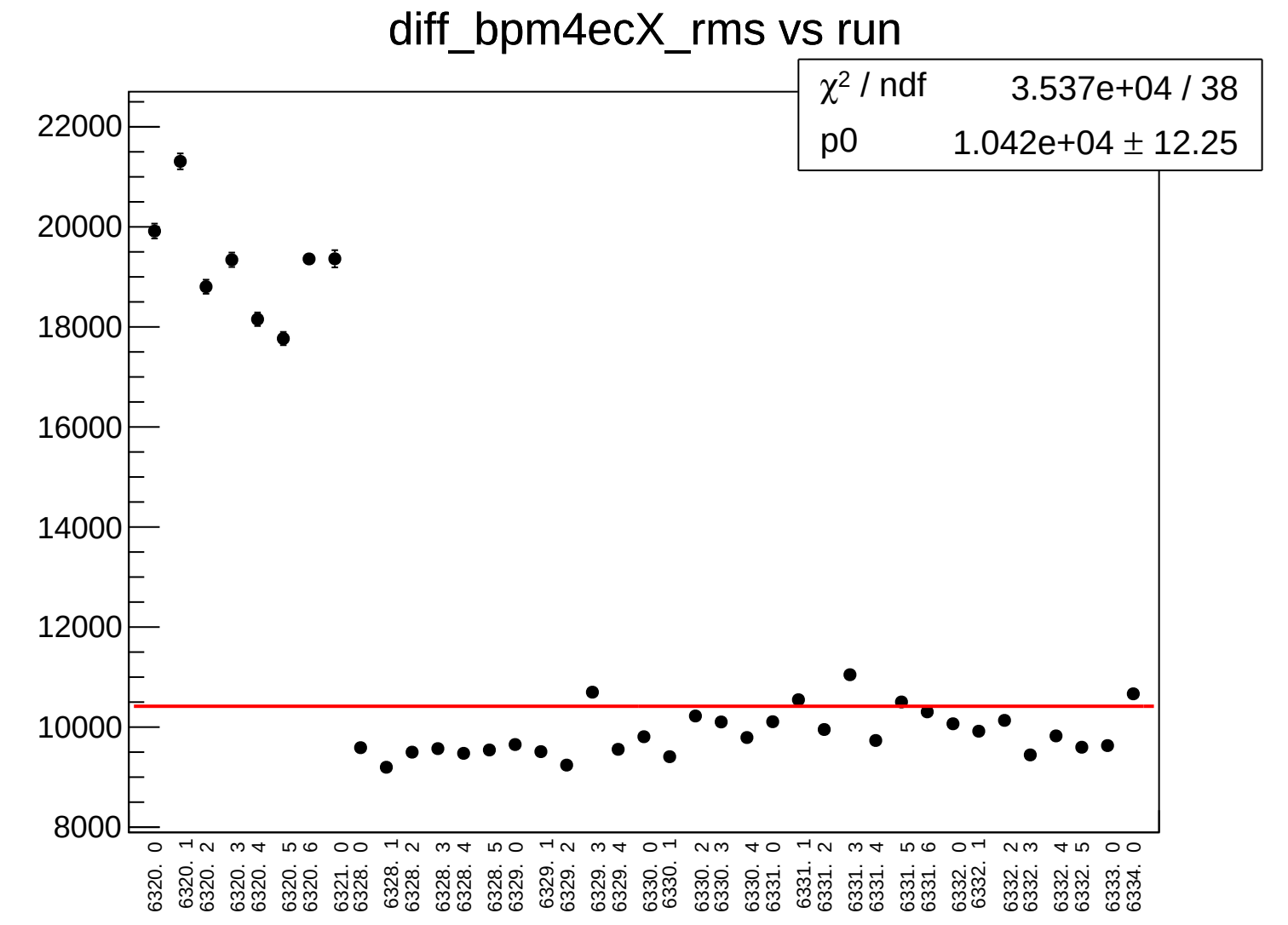

diff_bpm4acX_rms vs run
χ² / ndf 3.63e+04 / 38
p0 1.093e+04 ± 12.86
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

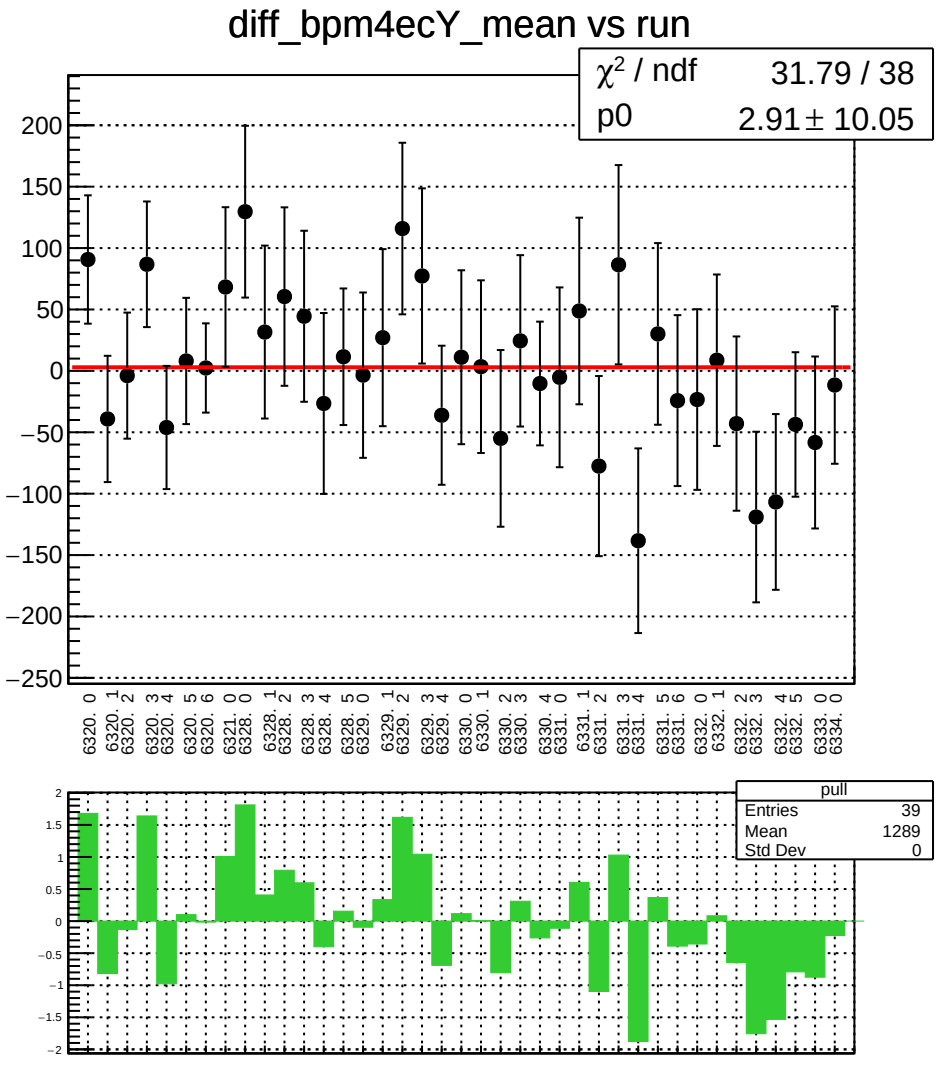

diff_bpm4acY_mean vs run
χ² / ndf 33.98 / 38
p0 0.7361 ± 11.28
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4563
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.001158
Std Dev 0.9335
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

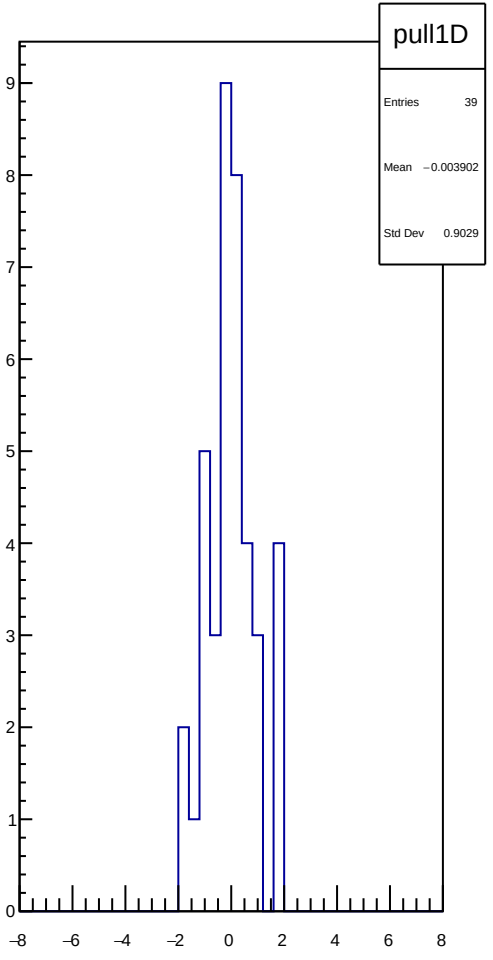

diff_bpm4acY_rms vs run
χ² / ndf 2971 / 38
p0 6932 ± 7.977
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

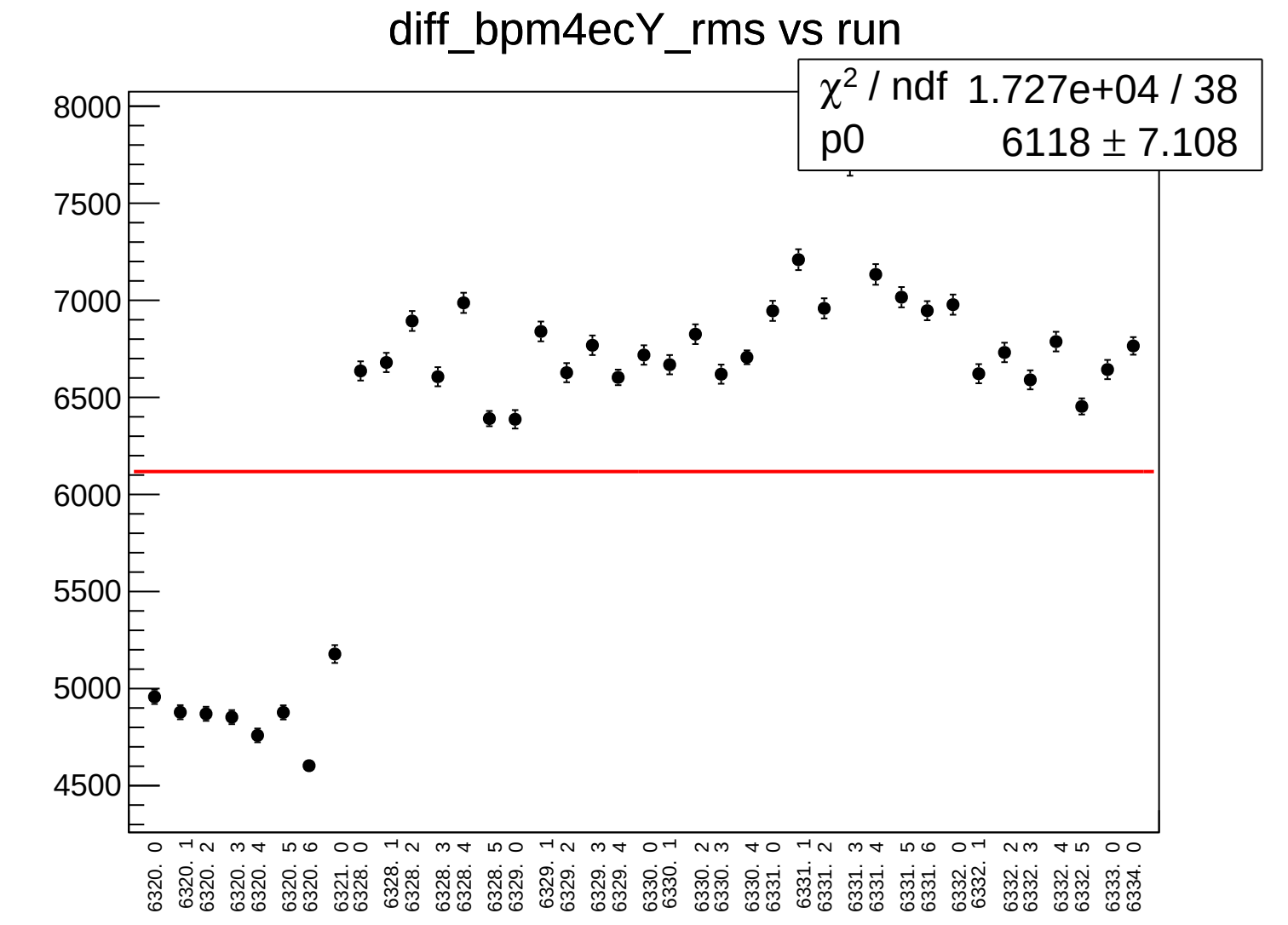

diff_bpm4ecX_mean vs run
χ² / ndf 33.6 / 38
p0 −17.77 ± 17.33
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.903
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

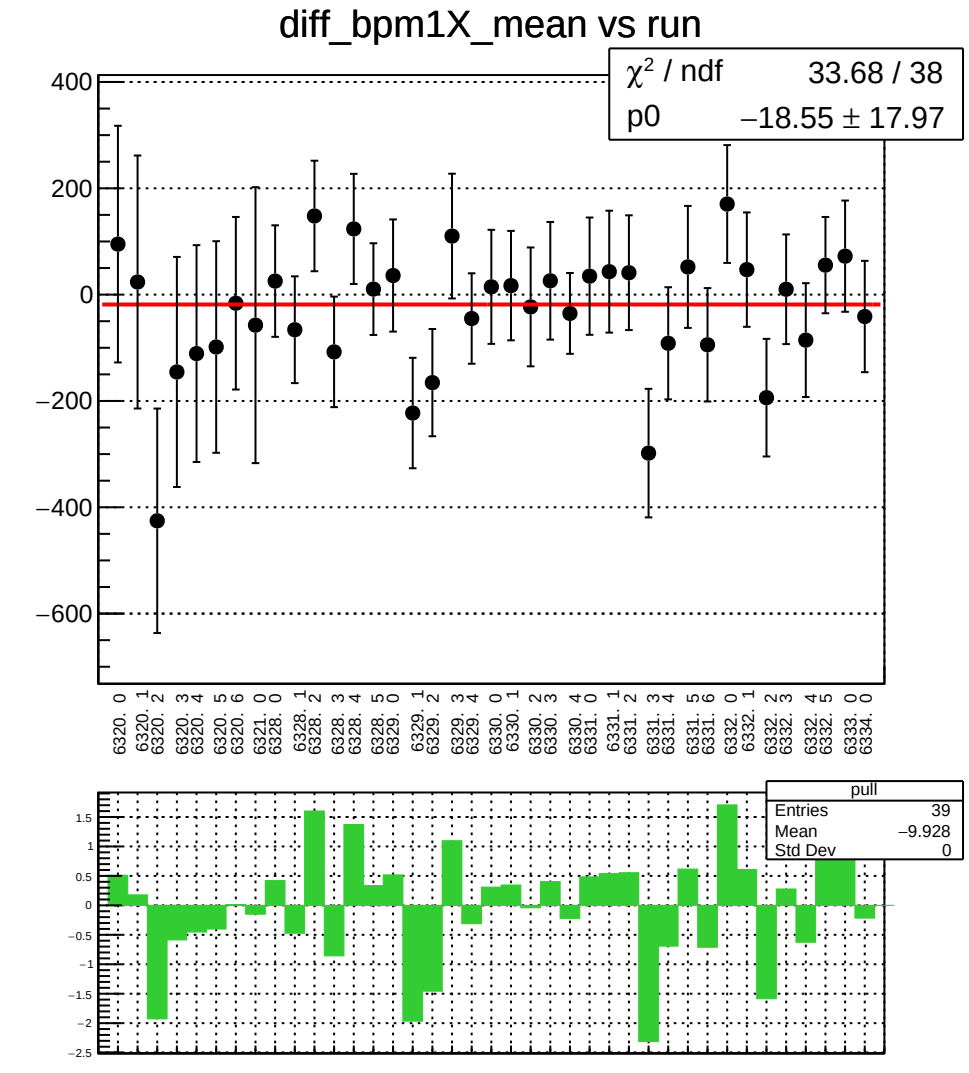

pull1D
Entries 39
Mean −0.03772
Std Dev 0.9274
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

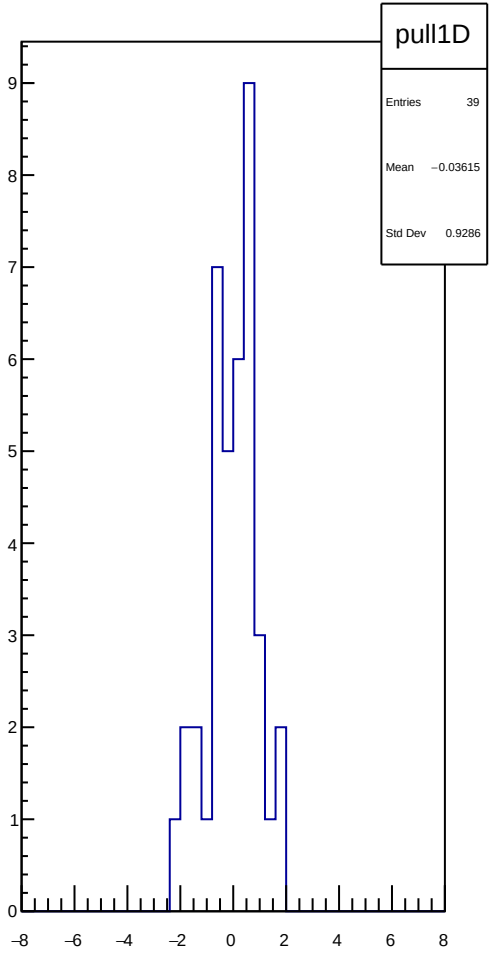

diff_bpm4ecX_rms vs run
χ² / ndf 3.537e+04 / 38
p0 1.042e+04 ± 12.25
22000
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

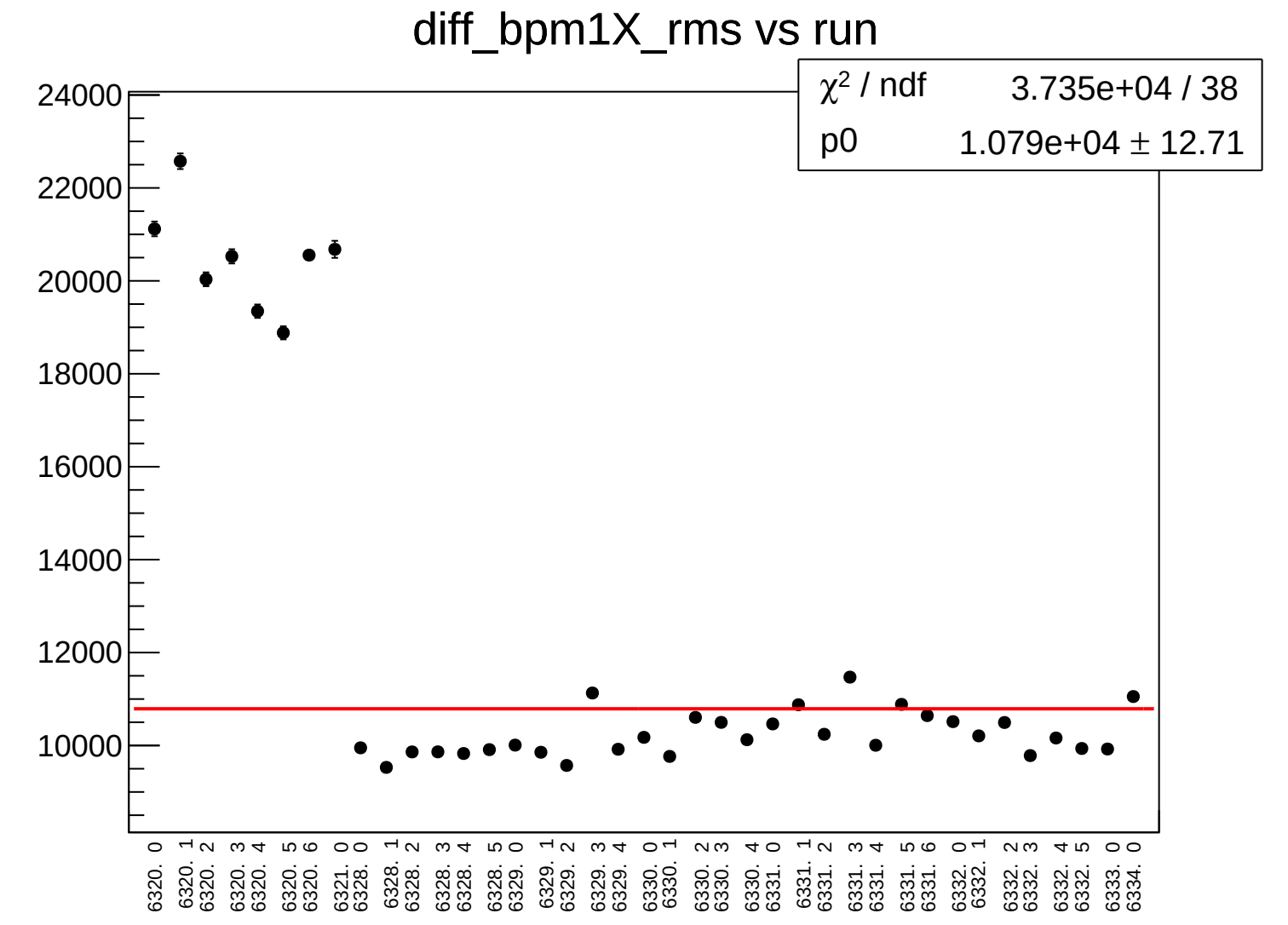

diff_bpm4ecY_mean vs run
χ² / ndf 31.79 / 38
p0 2.91 ± 10.05
pull
Entries 39
Mean 1289
Std Dev 0

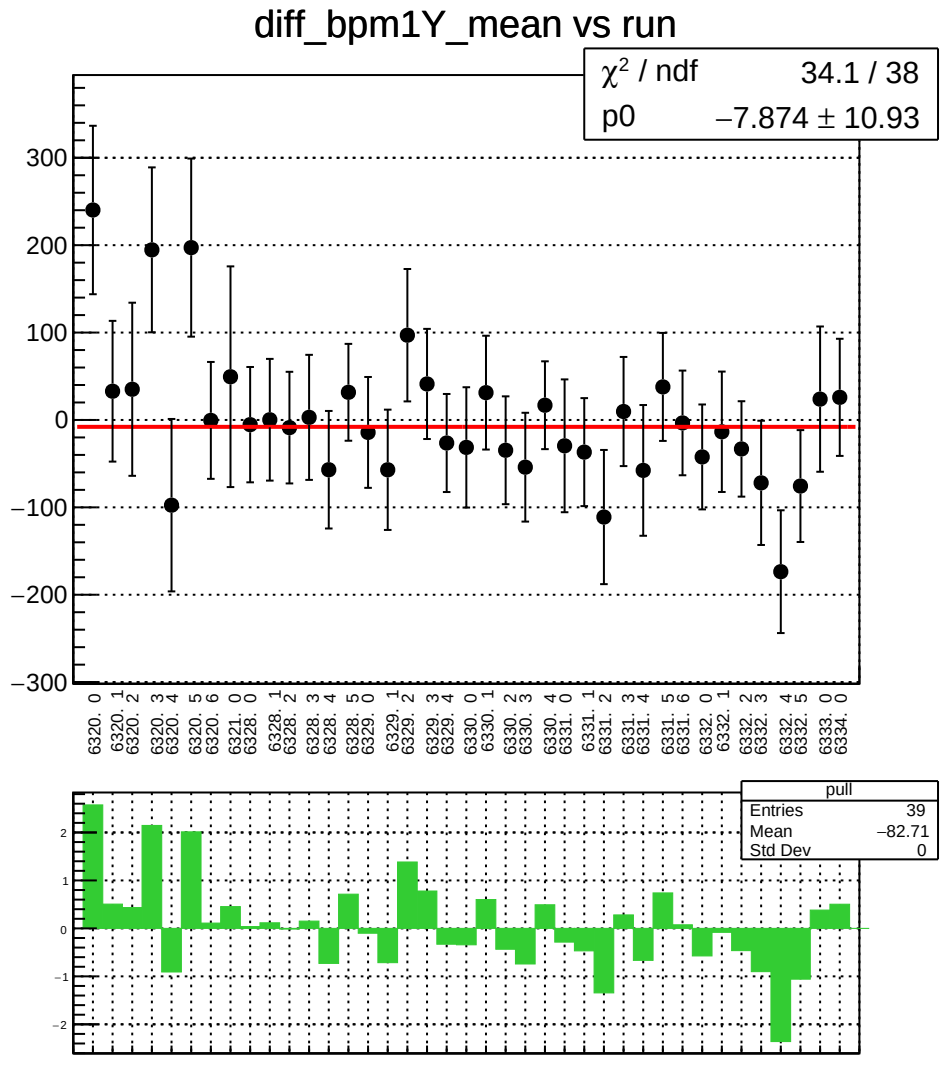

pull1D
Entries 39
Mean −0.003902
Std Dev 0.9029

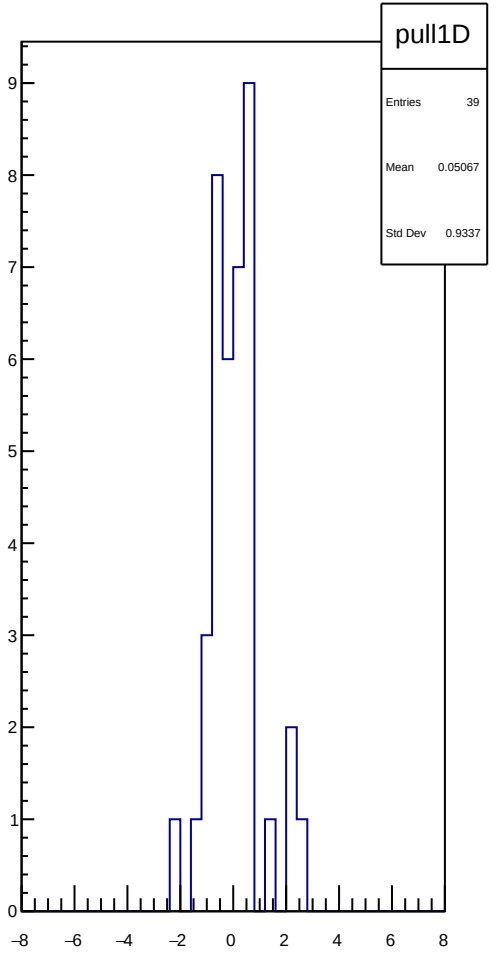

diff_bpm4ecY_rms vs run
χ² / ndf 1.727e+04 / 38
p0 6118 ± 7.108
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

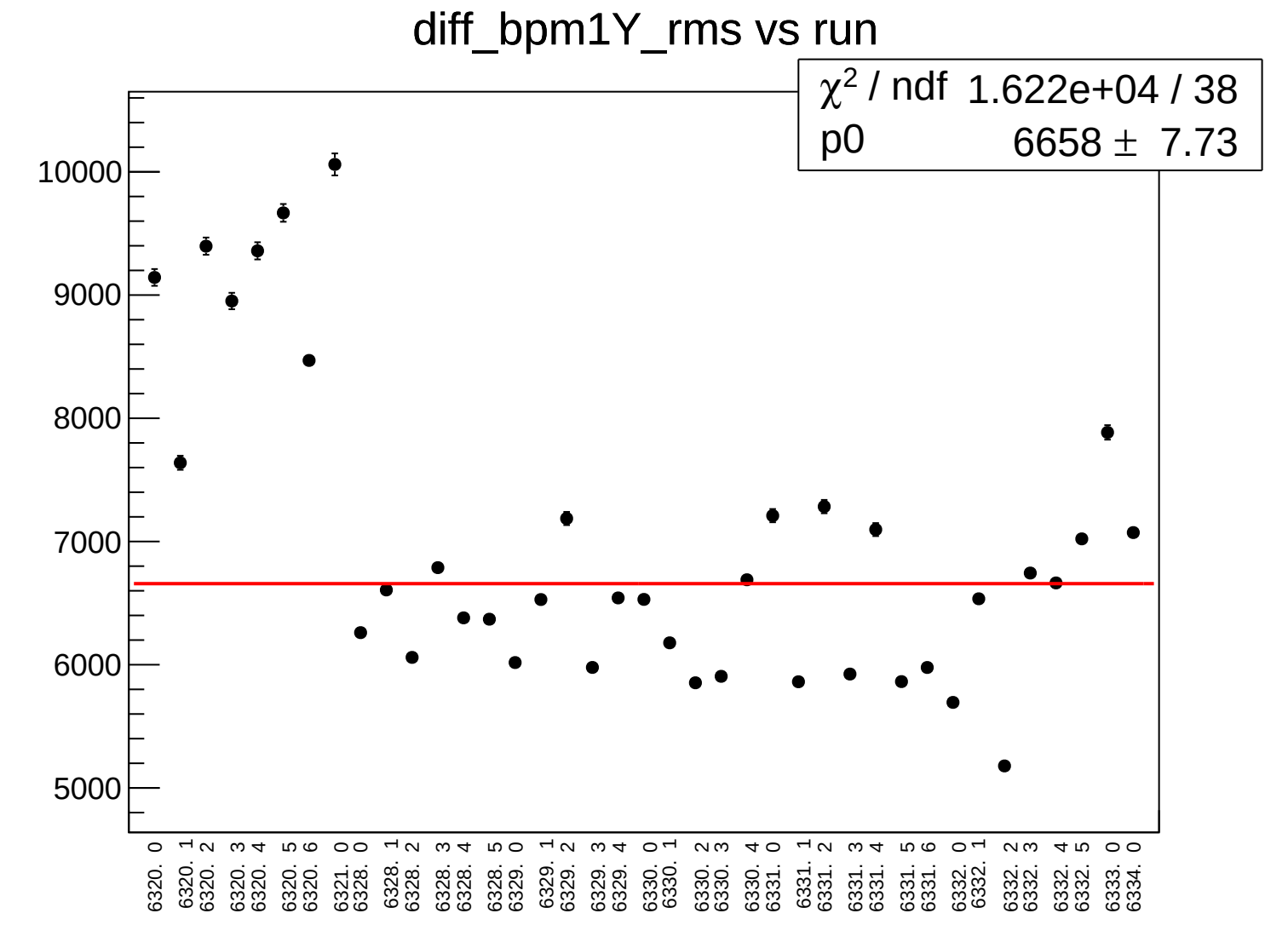

diff_bpm1X_mean vs run
χ² / ndf 33.68 / 38
p0 −18.55 ± 17.97
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.928
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

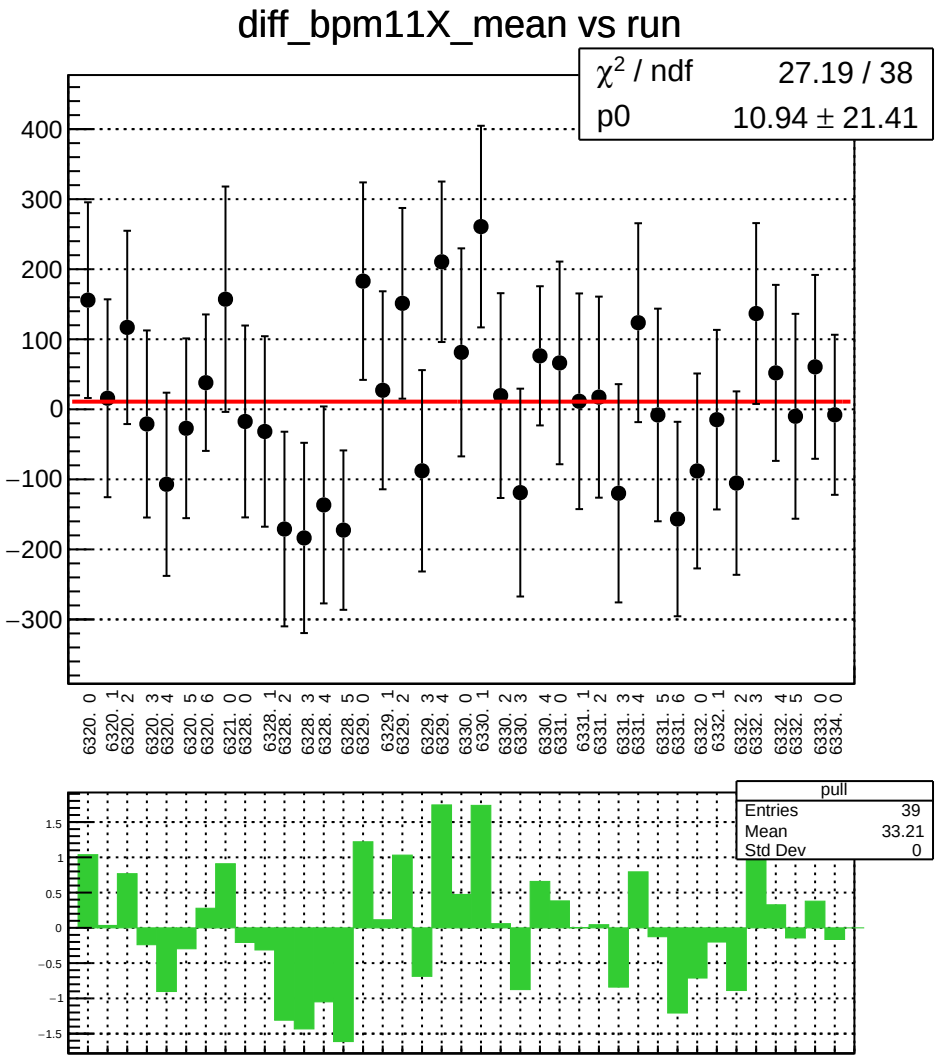

pull1D
Entries 39
Mean −0.03615
Std Dev 0.9286
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

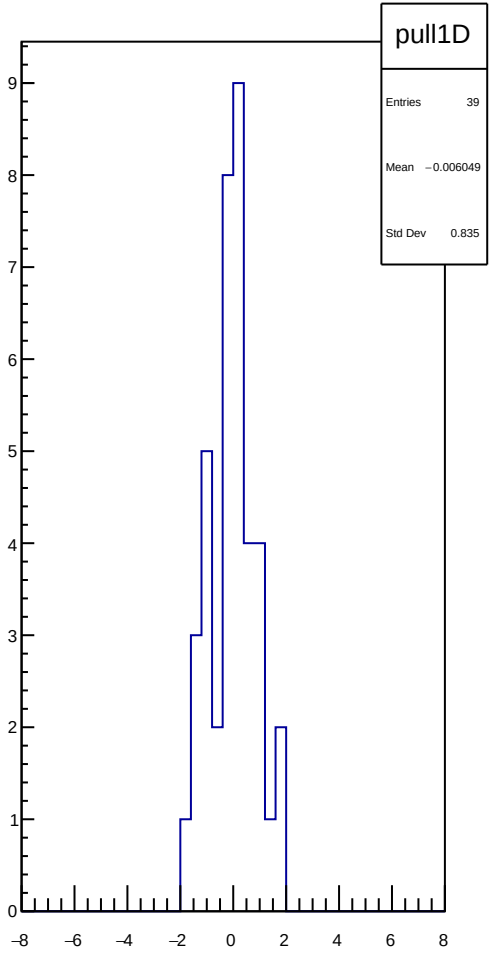

diff_bpm1X_rms vs run
χ² / ndf 3.735e+04 / 38
p0 1.079e+04 ± 12.71
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

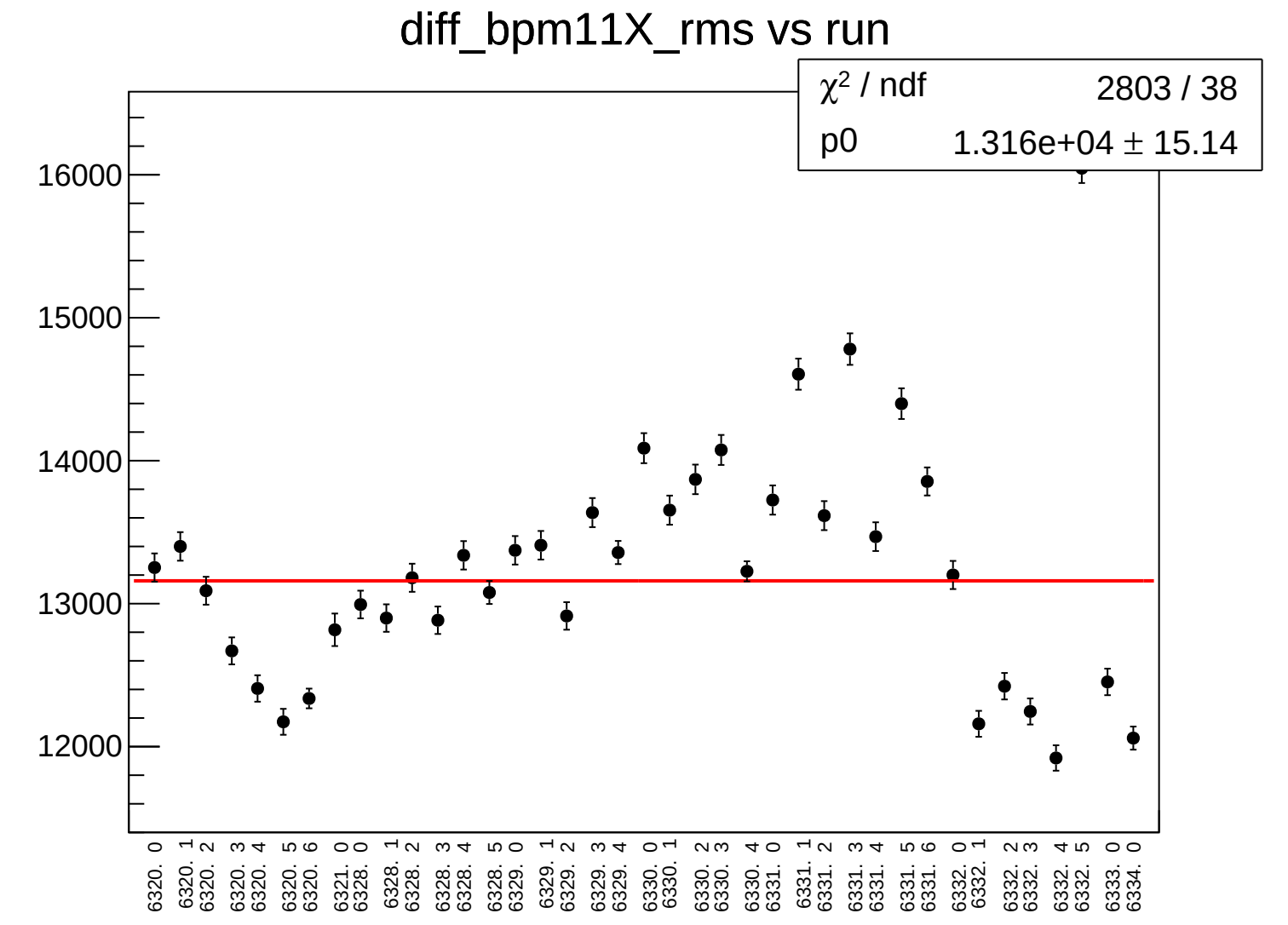

diff_bpm1Y_mean vs run
χ² / ndf 34.1 / 38
p0 −7.874 ± 10.93
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −82.71
Std Dev 0
2
1
0
−1
−2

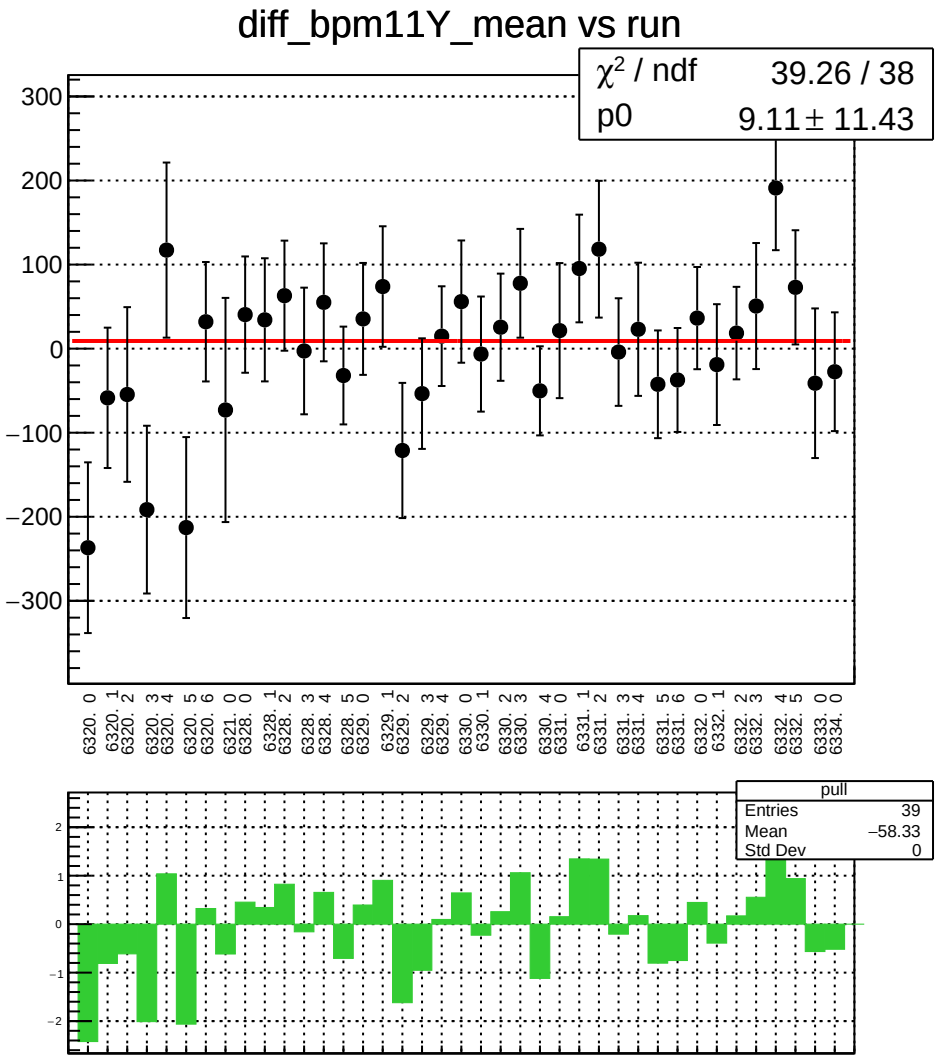

pull1D
Entries 39
Mean 0.05067
Std Dev 0.9337
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

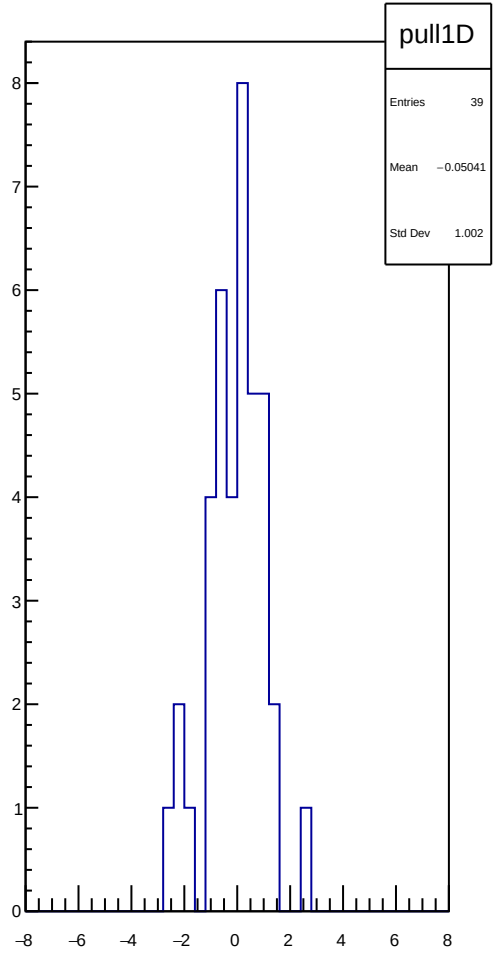

diff_bpm1Y_rms vs run
χ² / ndf 1.622e+04 / 38
p0 6658 ± 7.73
10000
9000
8000
7000
6000
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

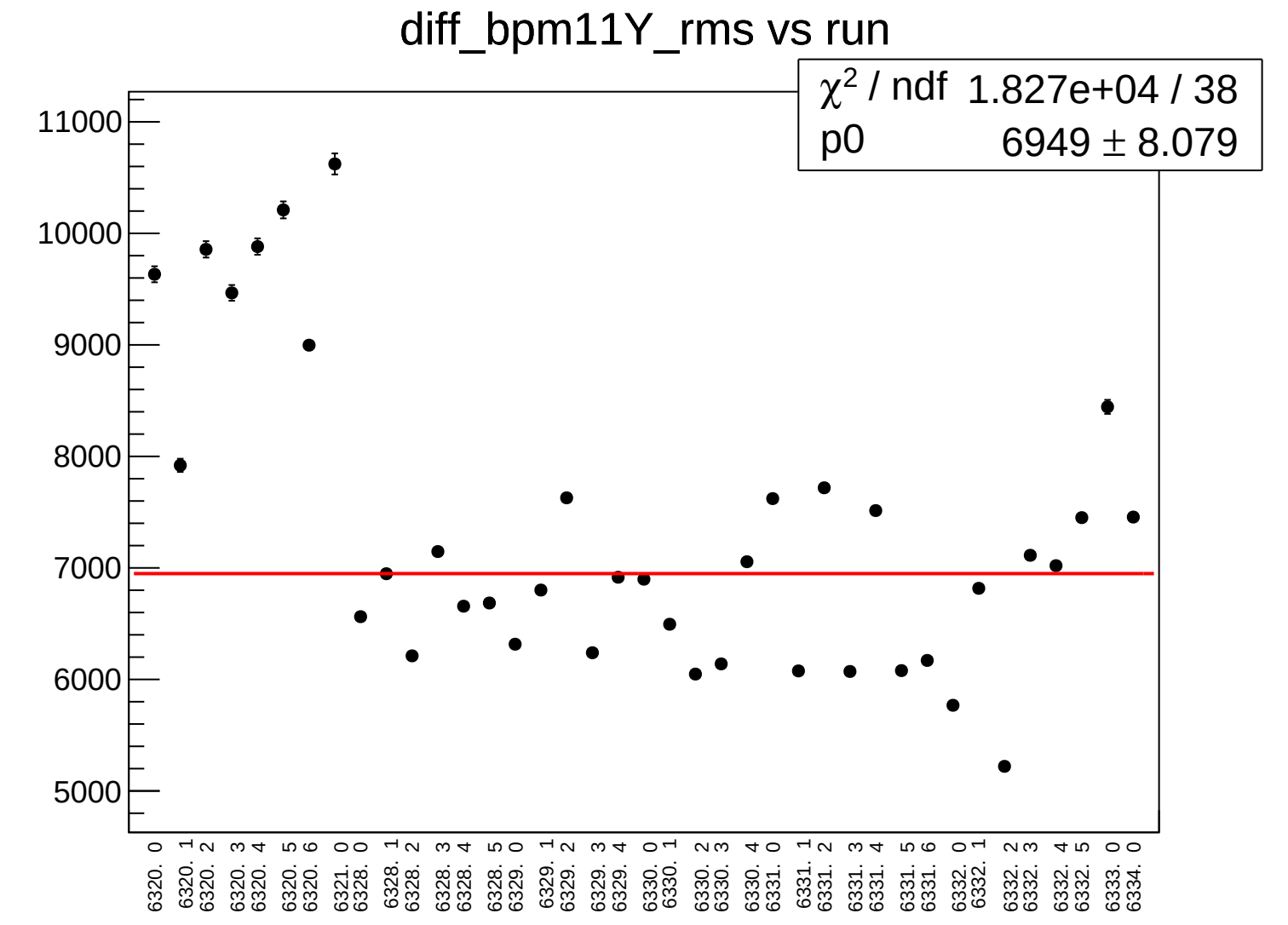

diff_bpm11X_mean vs run
χ² / ndf 27.19 / 38
p0 10.94 ± 21.41
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

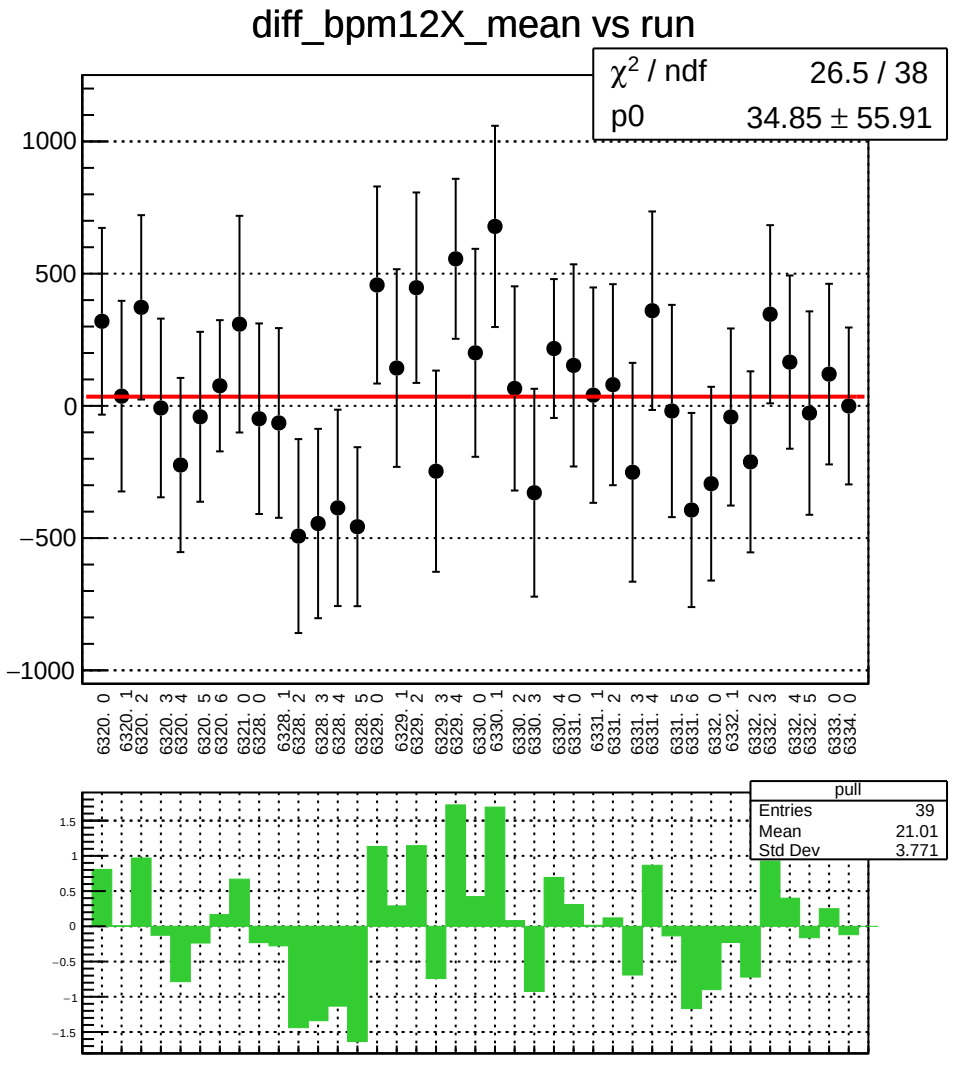

pull1D
Entries 39
Mean −0.006049
Std Dev 0.835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

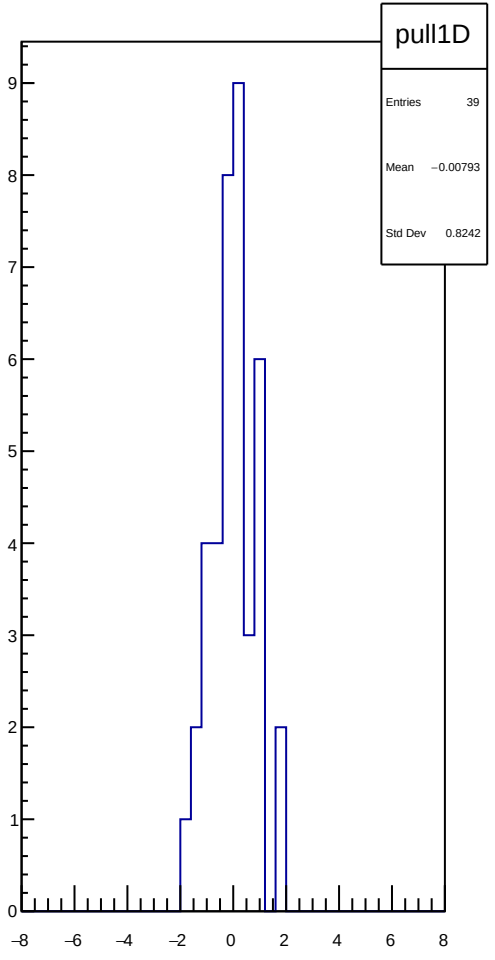

diff_bpm11X_rms vs run
χ² / ndf 2803 / 38
p0 1.316e+04 ± 15.14
16000
15000
14000
13000
12000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

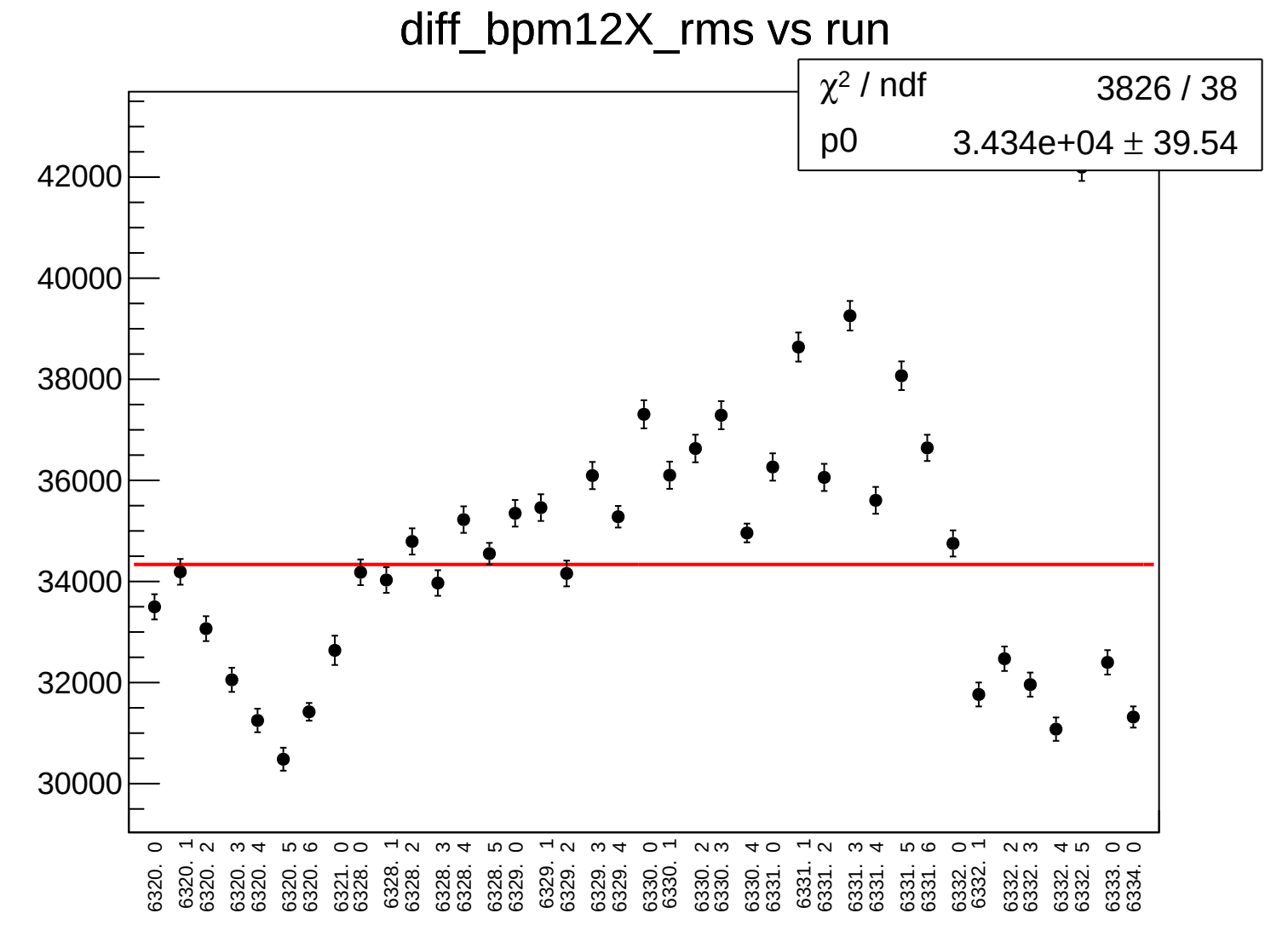

diff_bpm11Y_mean vs run
χ² / ndf 39.26 / 38
p0 9.11 ± 11.43
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −58.33
Std Dev 0
2
1
0
−1
−2

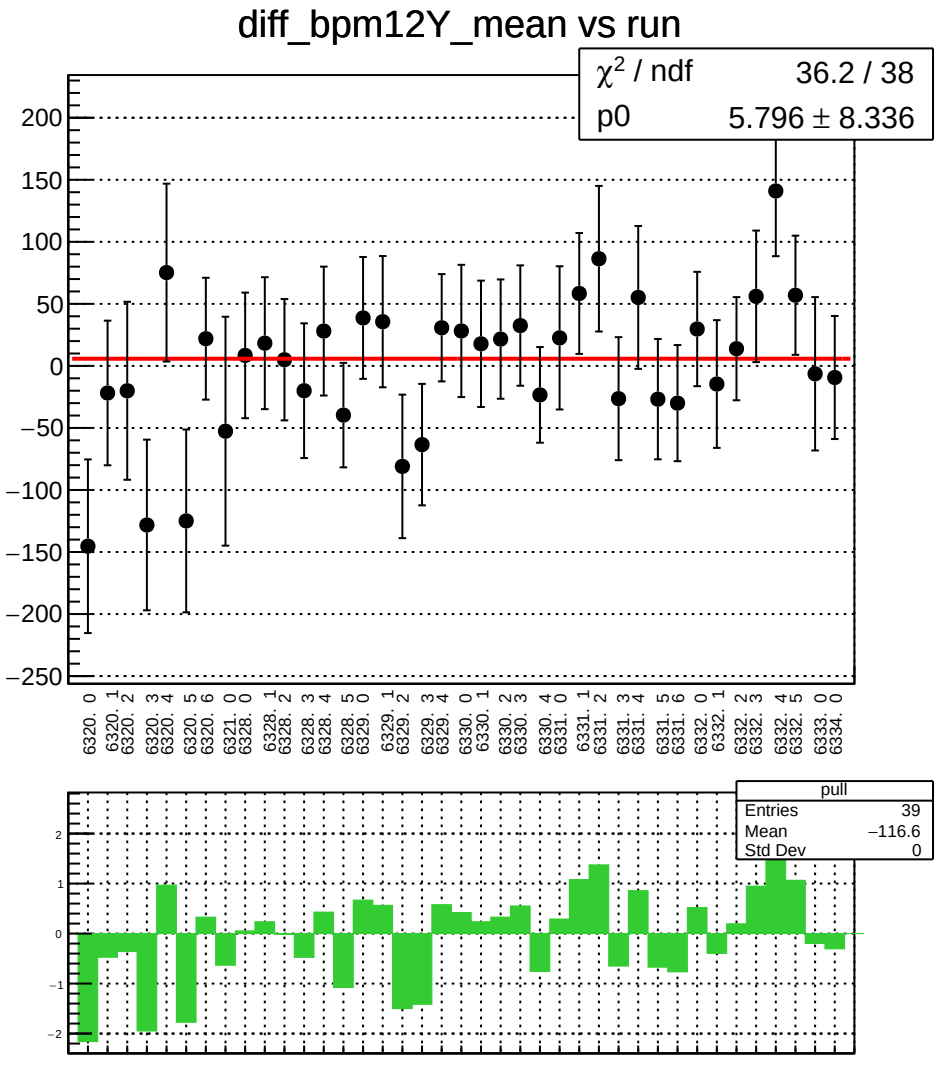

pull1D
Entries 39
Mean −0.05041
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

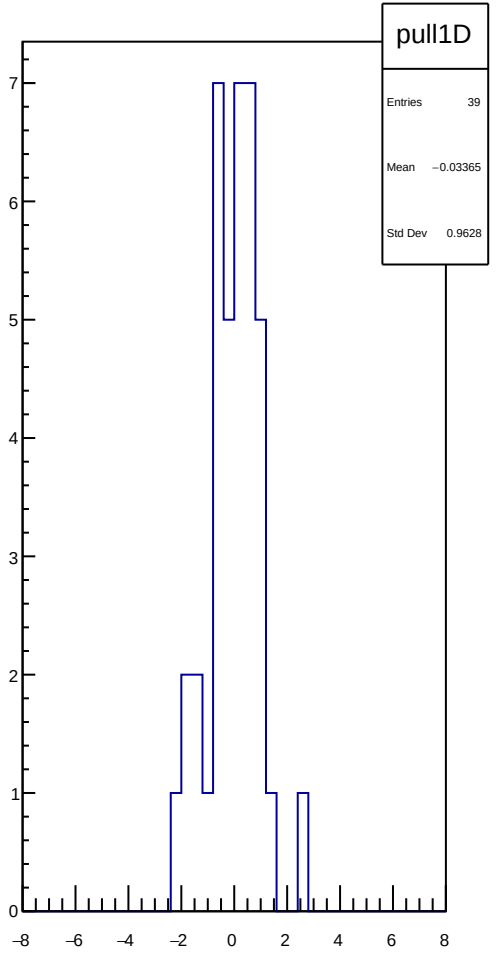

diff_bpm11Y_rms vs run
χ² / ndf 1.827e+04 / 38
p0 6949 ± 8.079
11000
10000
9000
8000
7000
6000
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

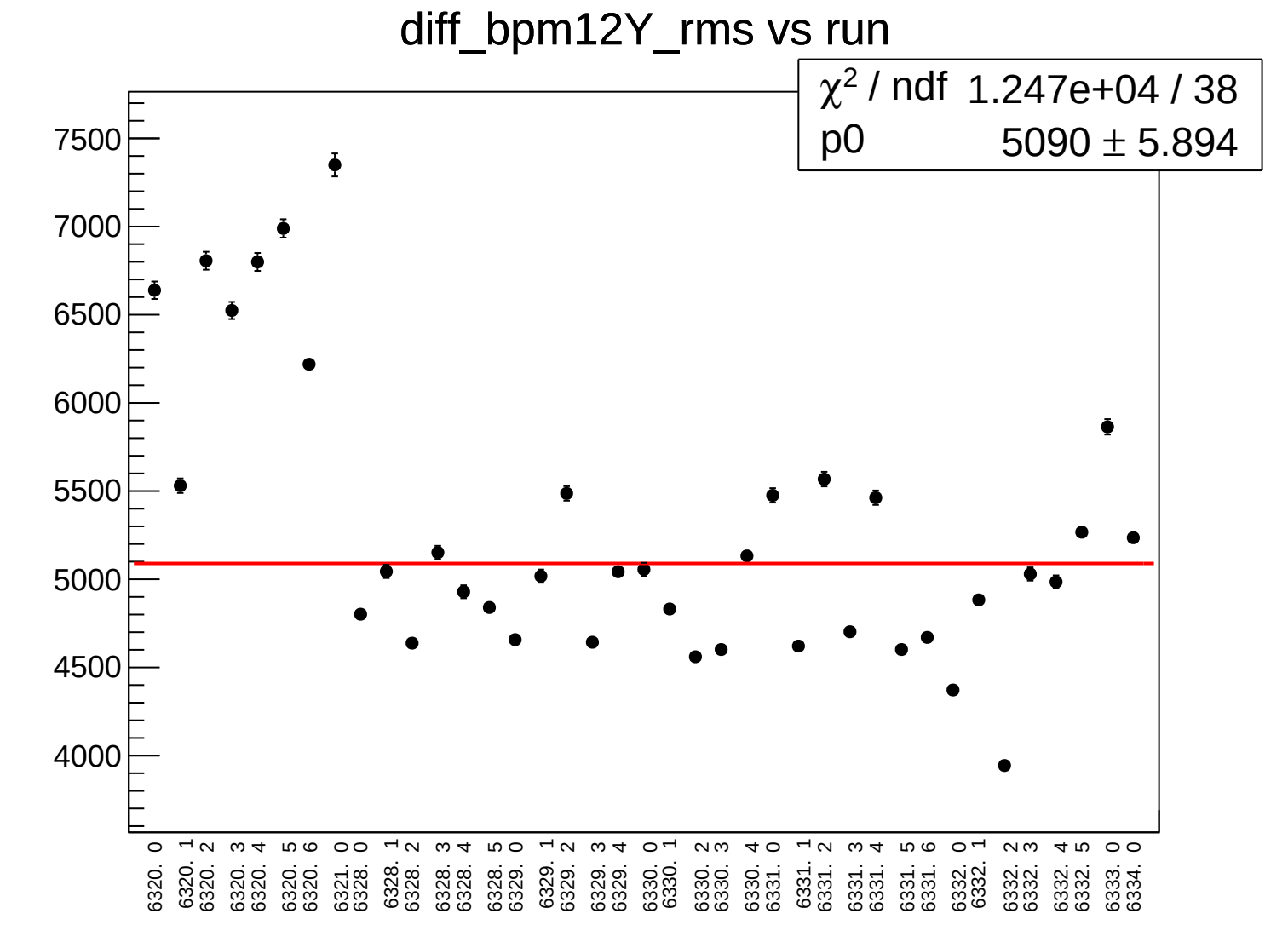

diff_bpm12X_mean vs run
χ² / ndf 26.5 / 38
p0 34.85 ± 55.91
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.01
Std Dev 3.771
1.5
1
0.5
0
−0.5
−1
−1.5

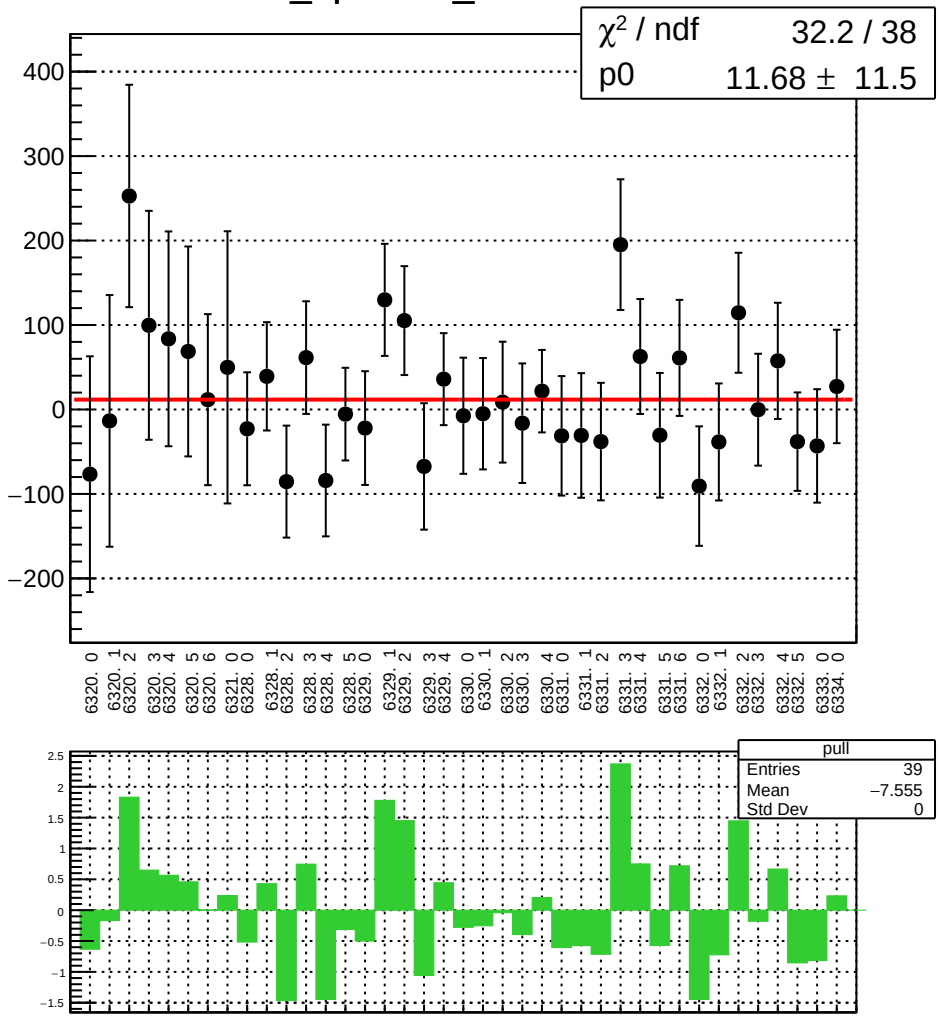

pull1D
Entries 39
Mean −0.00793
Std Dev 0.8242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

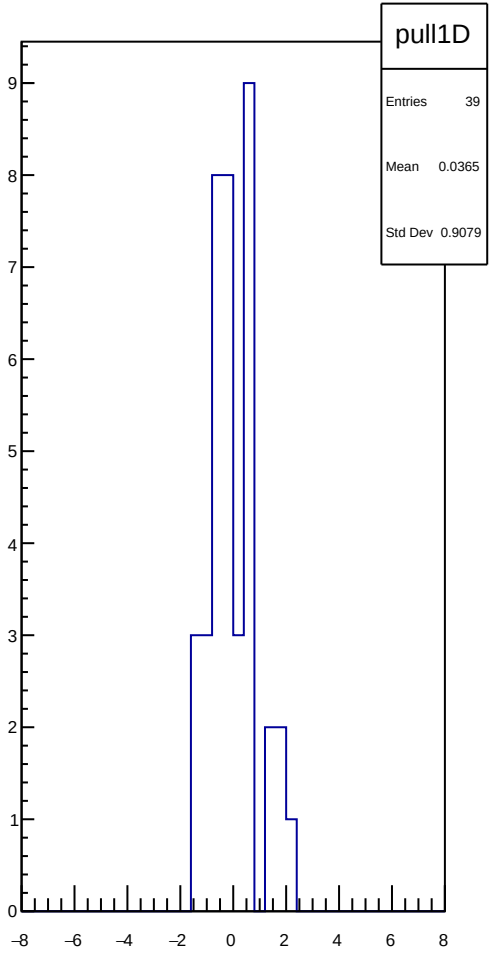

diff_bpm12X_rms vs run
χ² / ndf 3826 / 38
p0 3.434e+04 ± 39.54
42000
40000
38000
36000
34000
32000
30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

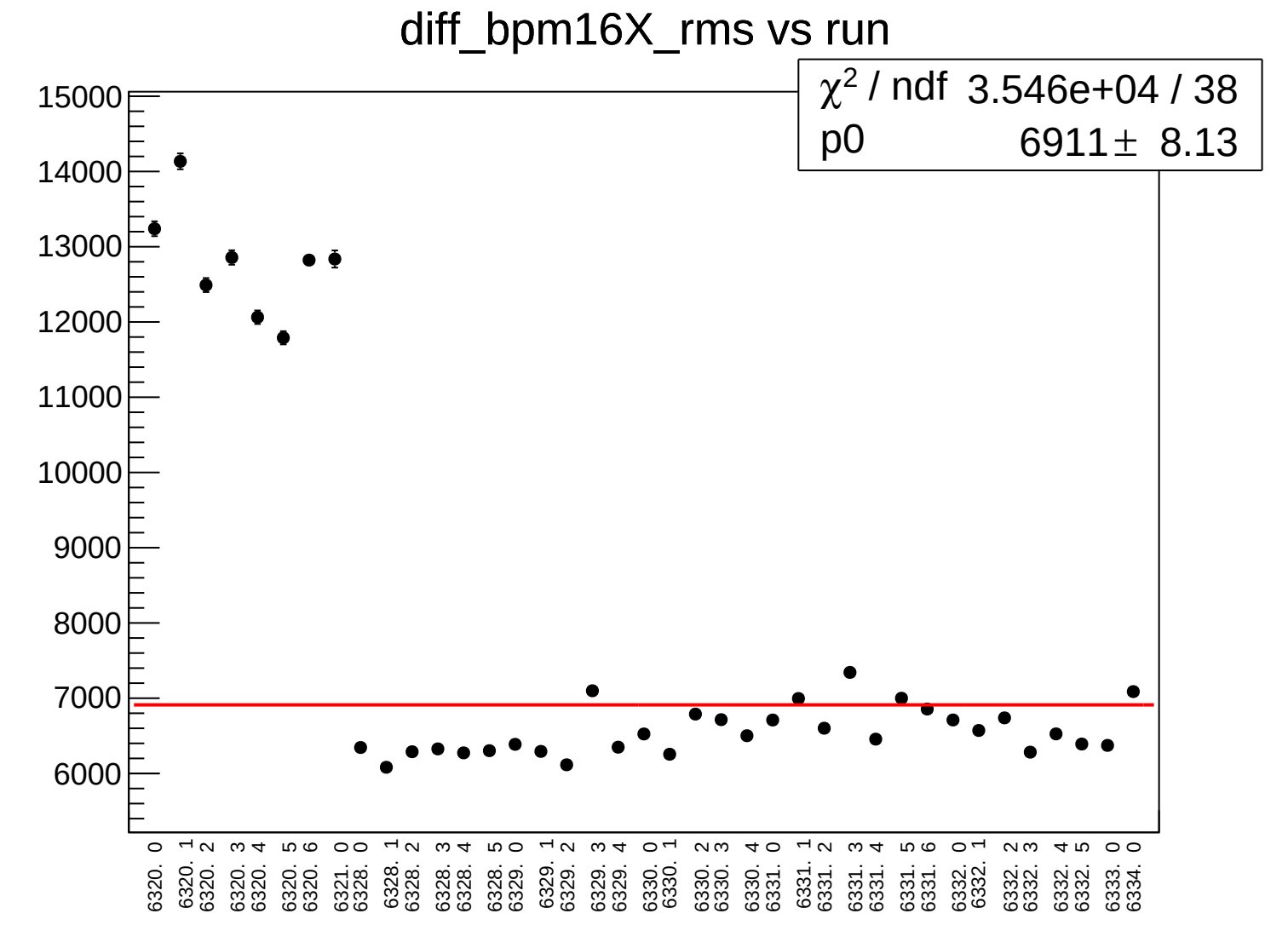

diff_bpm12Y_mean vs run
χ² / ndf 36.2 / 38
p0 5.796 ± 8.336
200
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −116.6
Std Dev 0
2
1
0
−1
−2

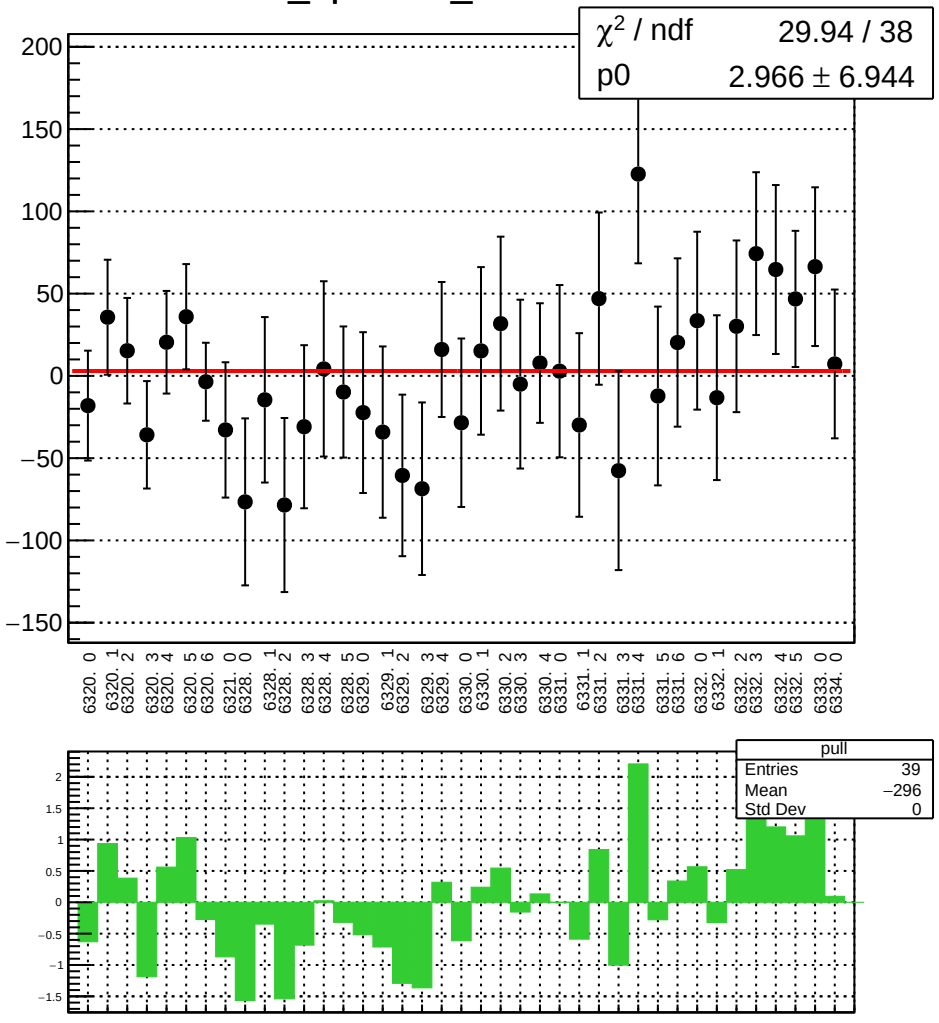

pull1D
Entries 39
Mean −0.03365
Std Dev 0.9628
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

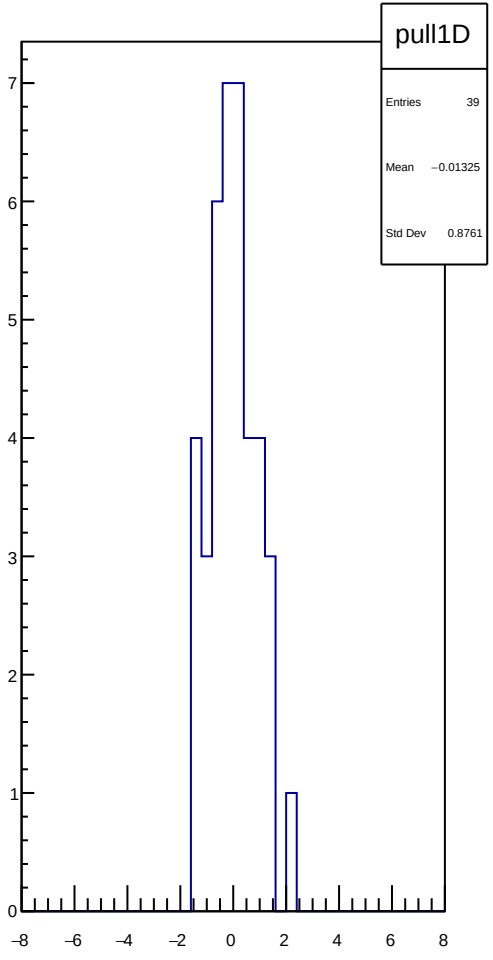

diff_bpm12Y_rms vs run
χ² / ndf 1.247e+04 / 38
p0 5090 ± 5.894
7500
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

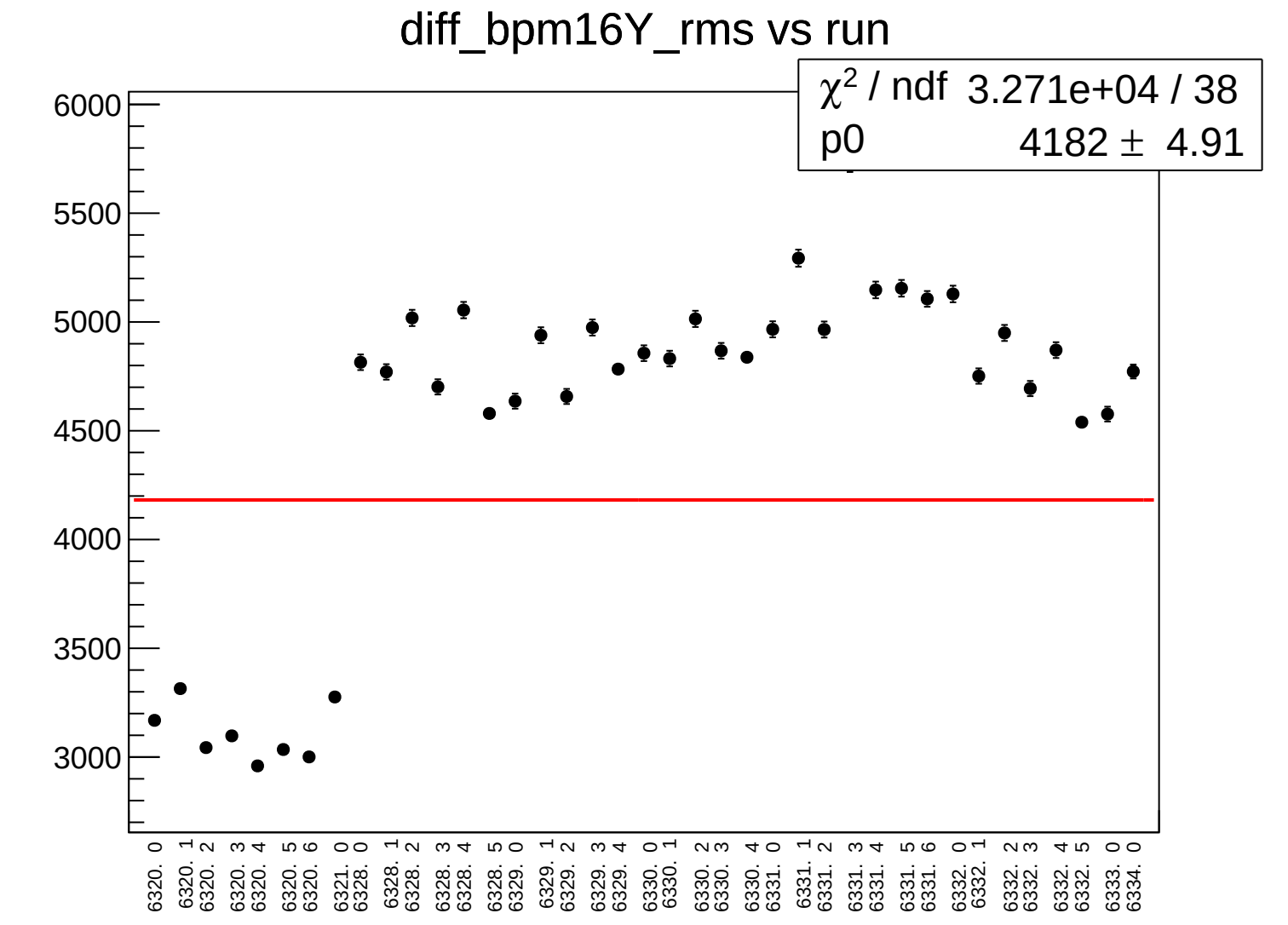

diff_bpm16X_mean vs run
χ² / ndf 32.2 / 38
p0 11.68 ± 11.5
pull
Entries 39
Mean −7.555
Std Dev 0

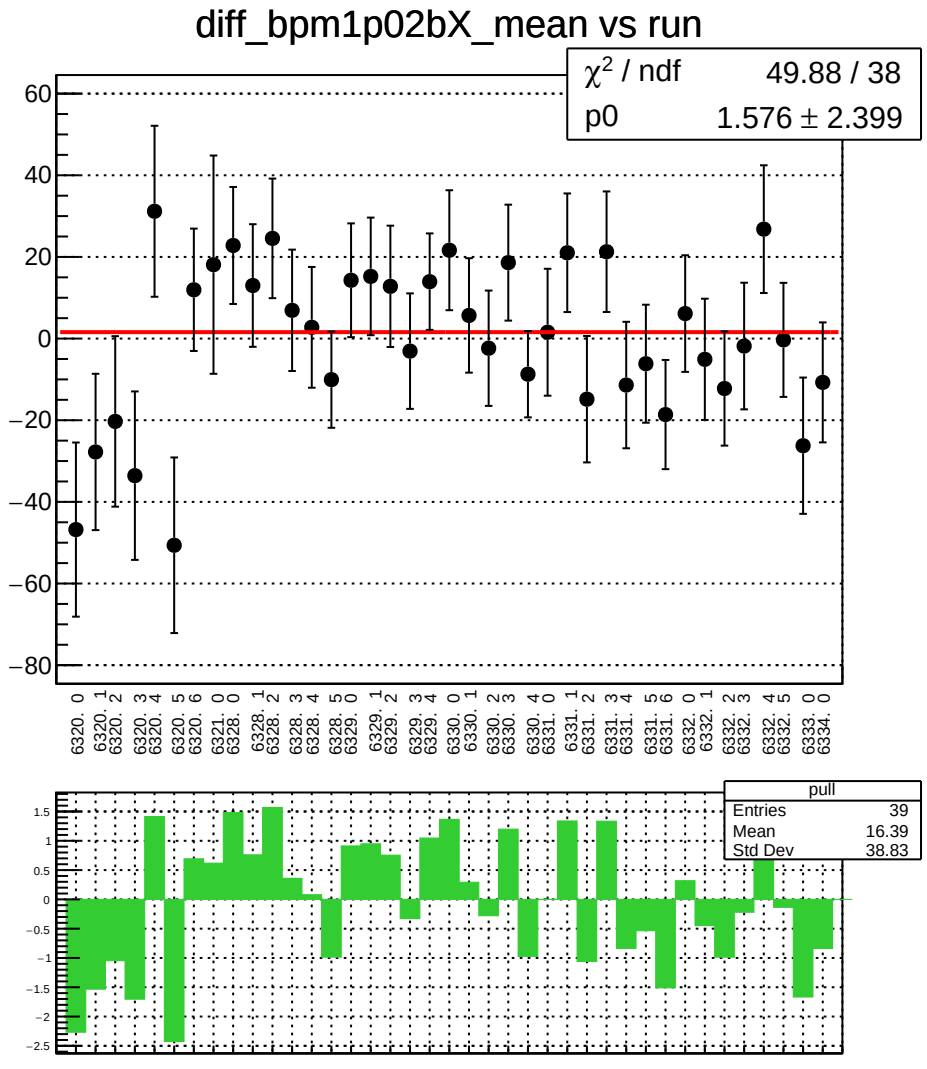

pull1D
Entries 39
Mean 0.0365
Std Dev 0.9079

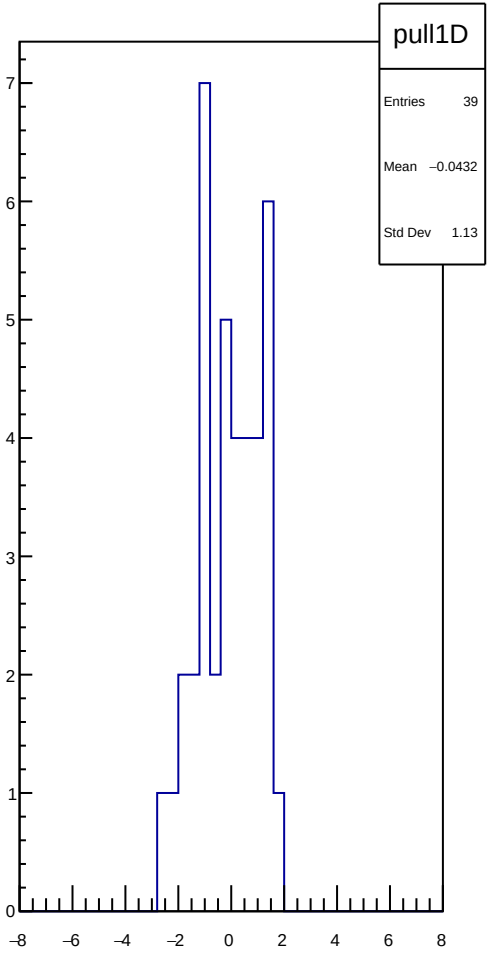

diff_bpm16X_rms vs run
χ² / ndf 3.546e+04 / 38
p0 6911 ± 8.13
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

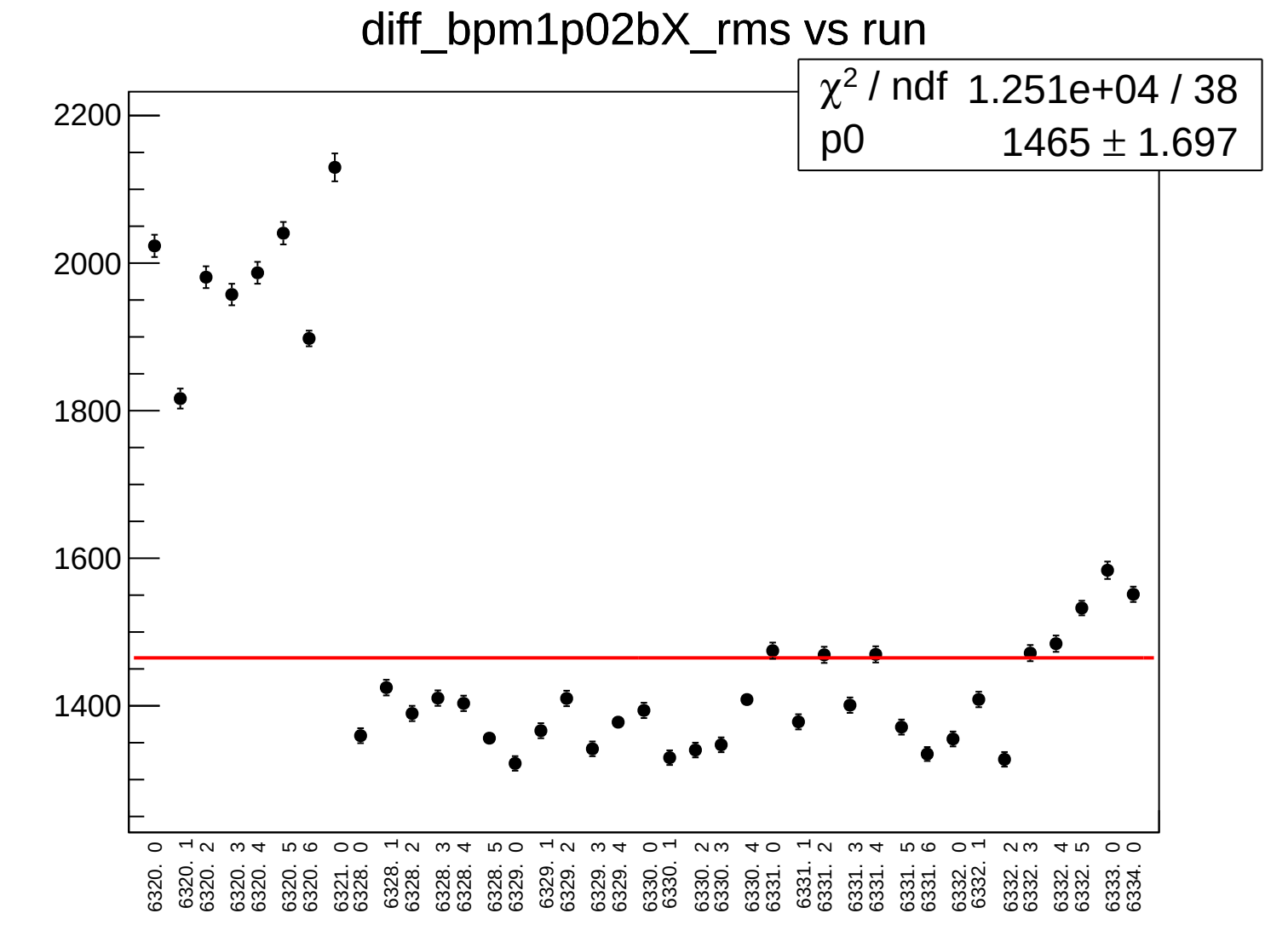

diff_bpm16Y_mean vs run
χ² / ndf 29.94 / 38
p0 2.966 ± 6.944
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −296
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

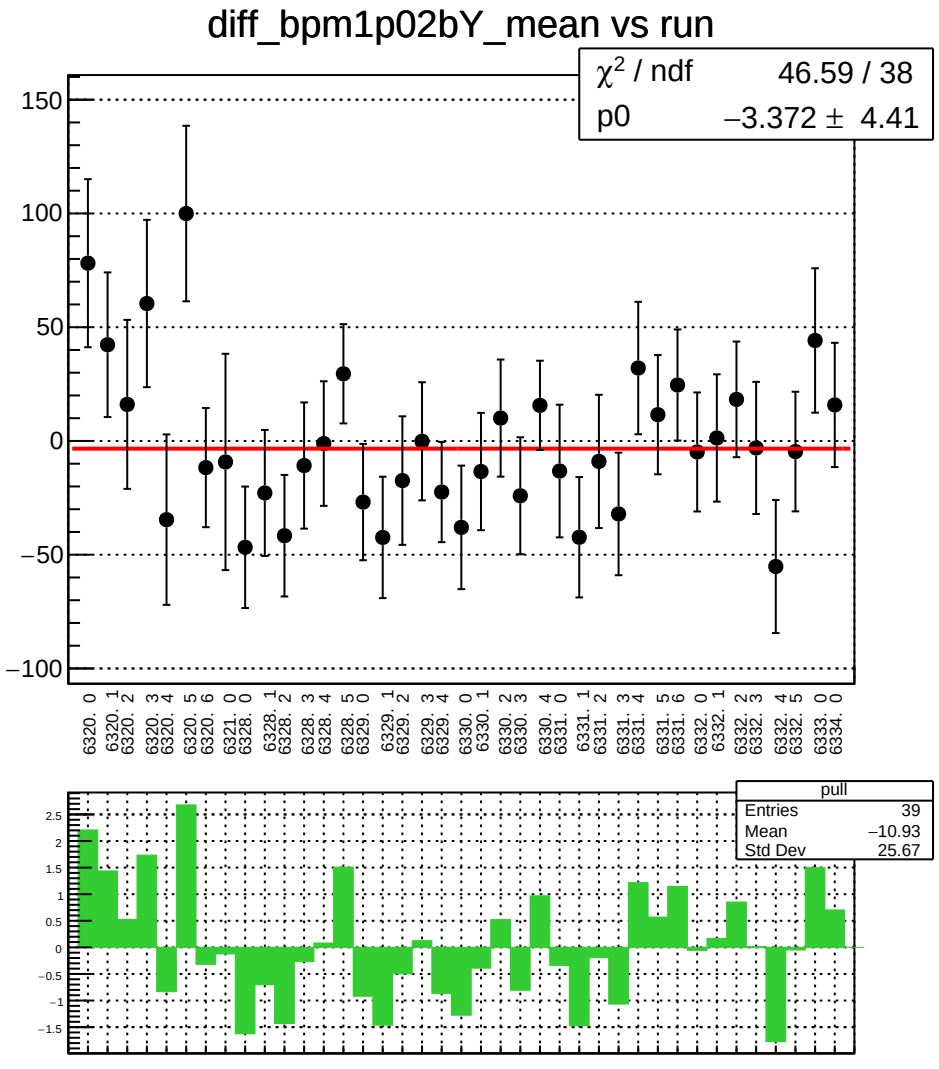

pull1D
Entries 39
Mean −0.01325
Std Dev 0.8761
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

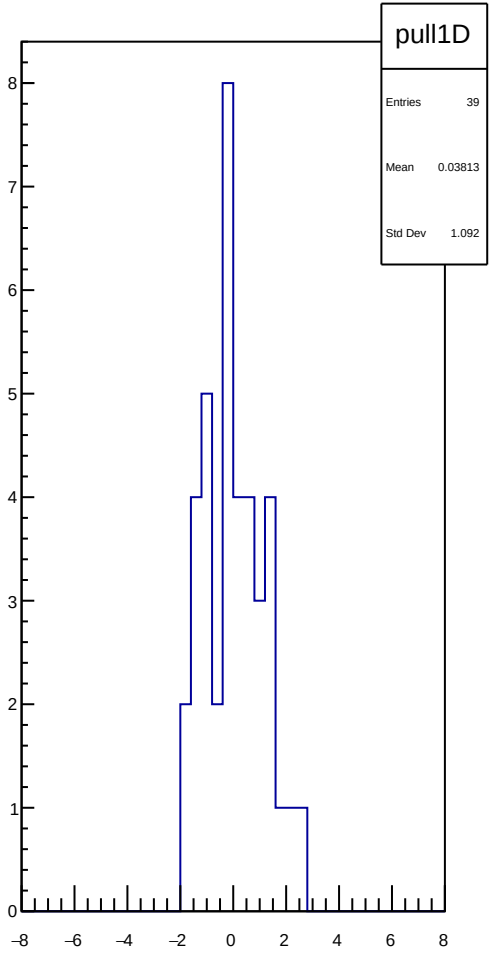

diff_bpm16Y_rms vs run
χ² / ndf 3.271e+04 / 38
p0 4182 ± 4.91
6000
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

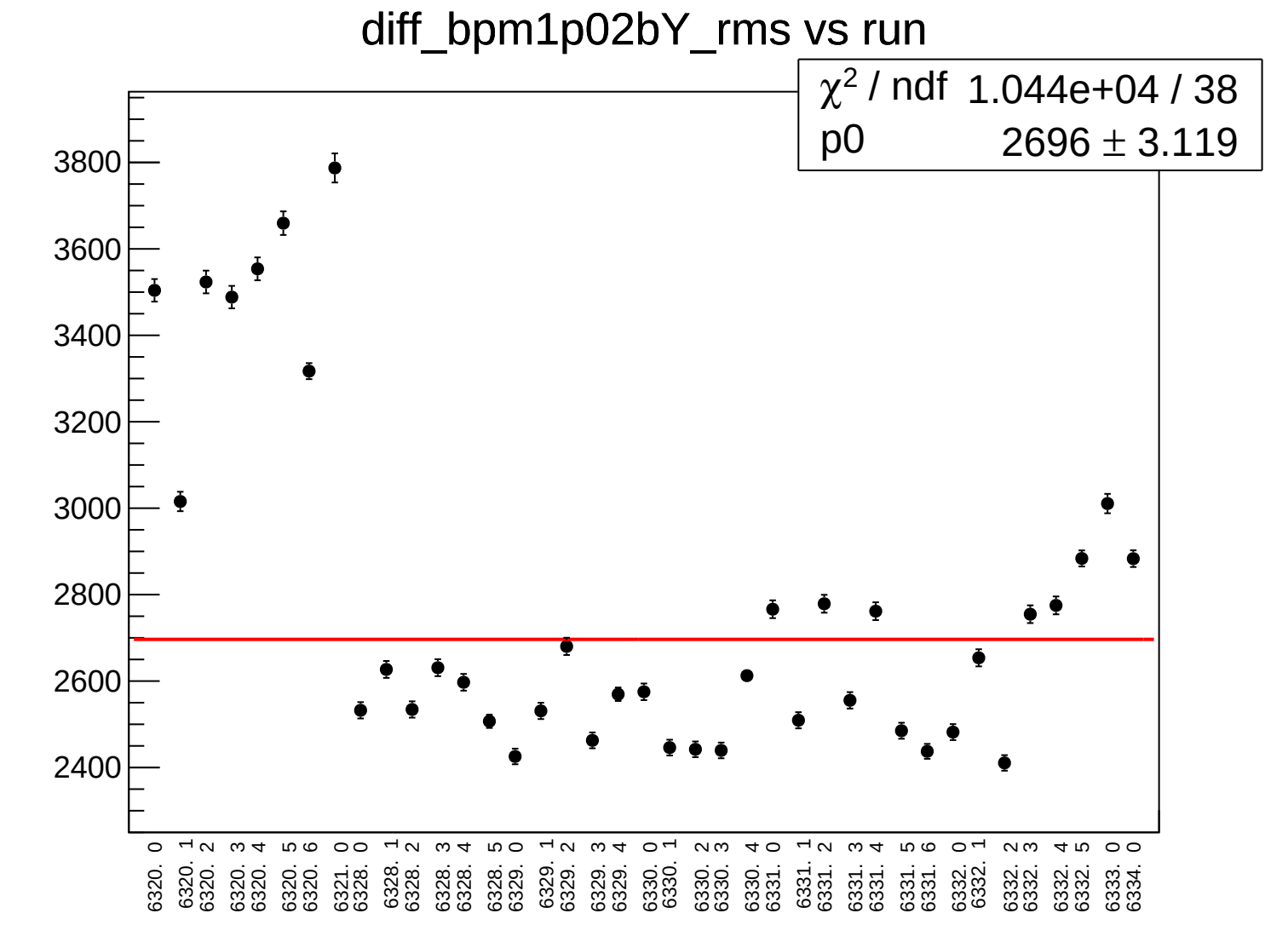

diff_bpm1p02bX_mean vs run
χ² / ndf 49.88 / 38
p0 1.576 ± 2.399
pull
Entries 39
Mean 16.39
Std Dev 38.83

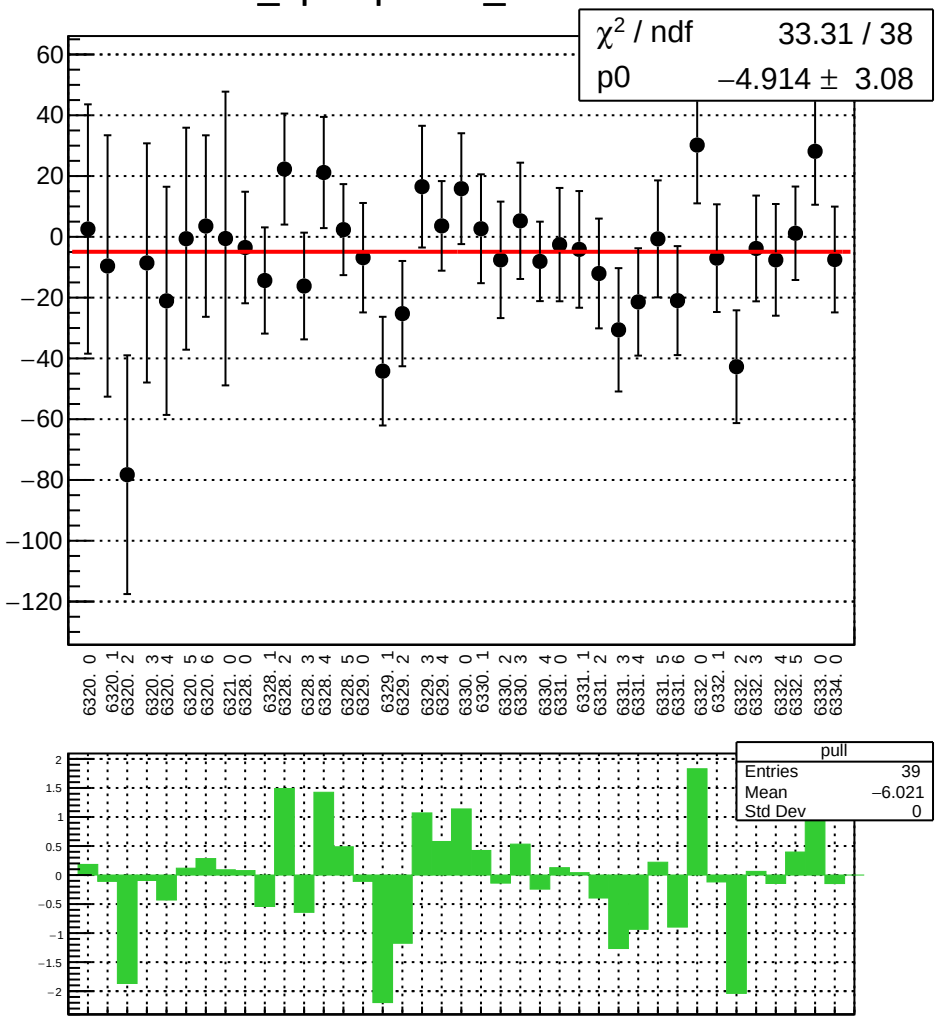

pull1D
Entries 39
Mean −0.0432
Std Dev 1.13

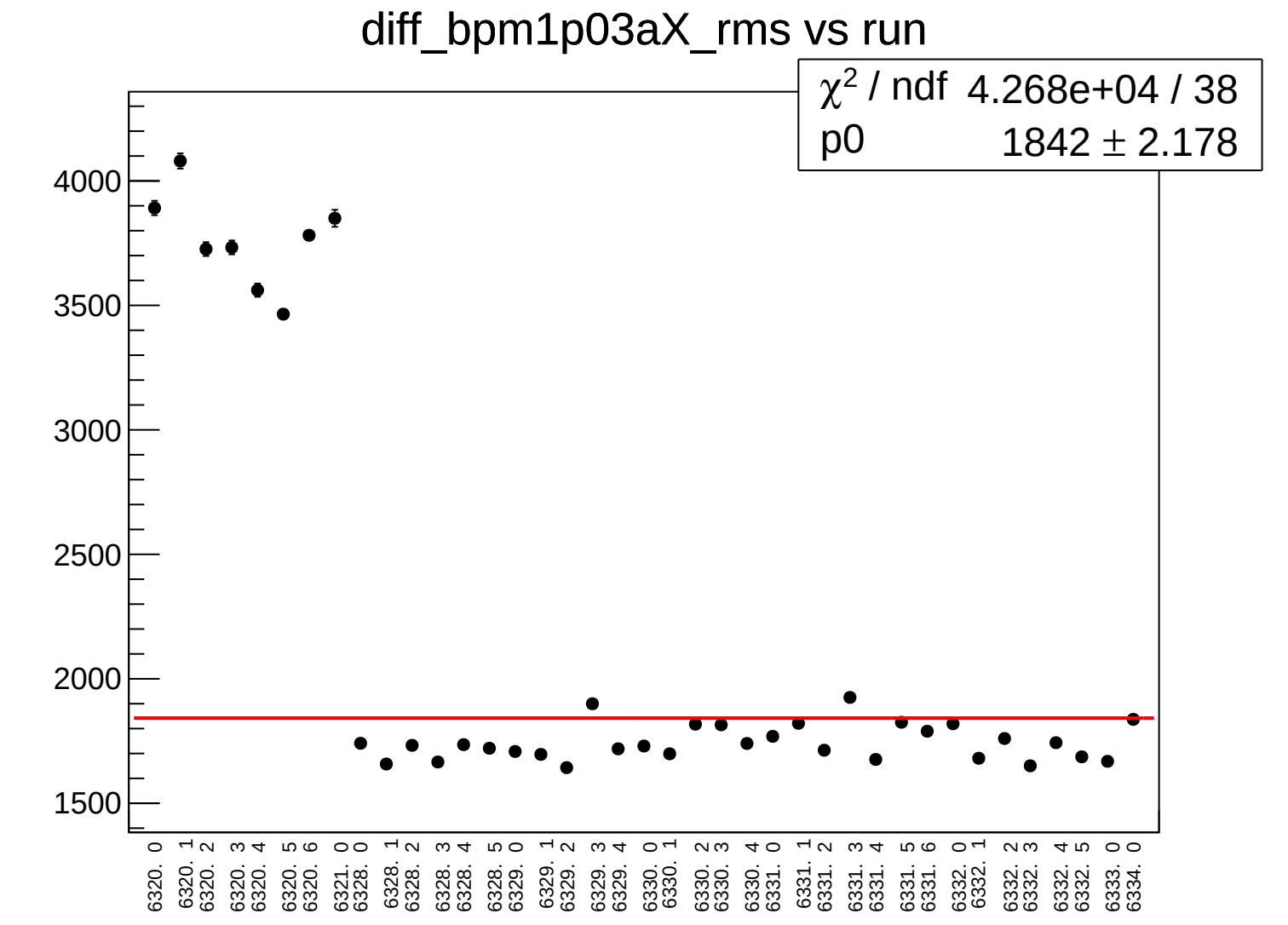

diff_bpm1p02bX_rms vs run
χ² / ndf 1.251e+04 / 38
p0 1465 ± 1.697
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

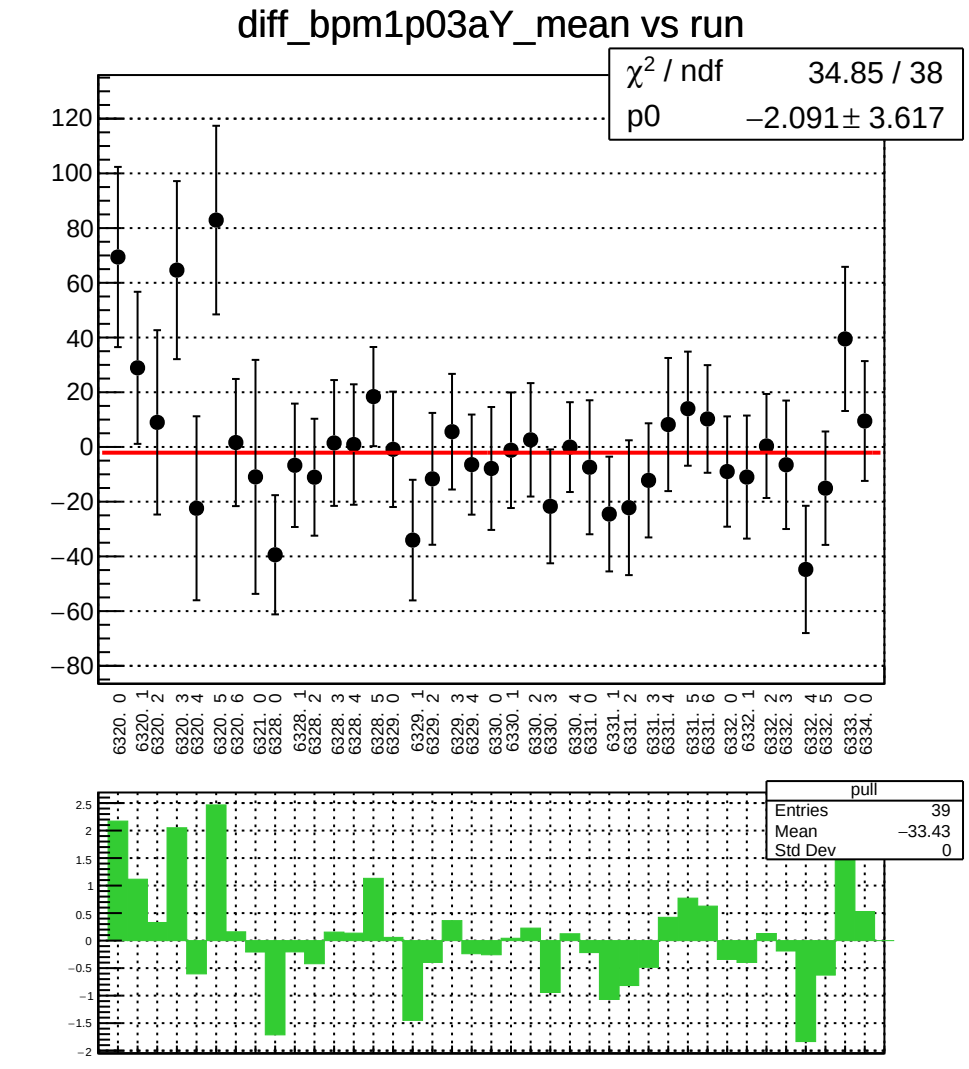

diff_bpm1p02bY_mean vs run
χ² / ndf 46.59 / 38
p0 −3.372 ± 4.41
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.93
Std Dev 25.67
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

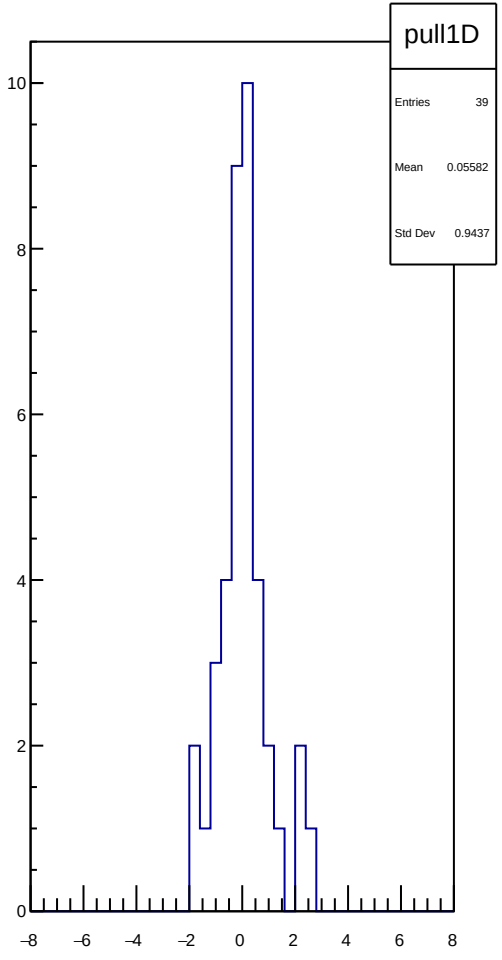

pull1D
Entries 39
Mean 0.03813
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

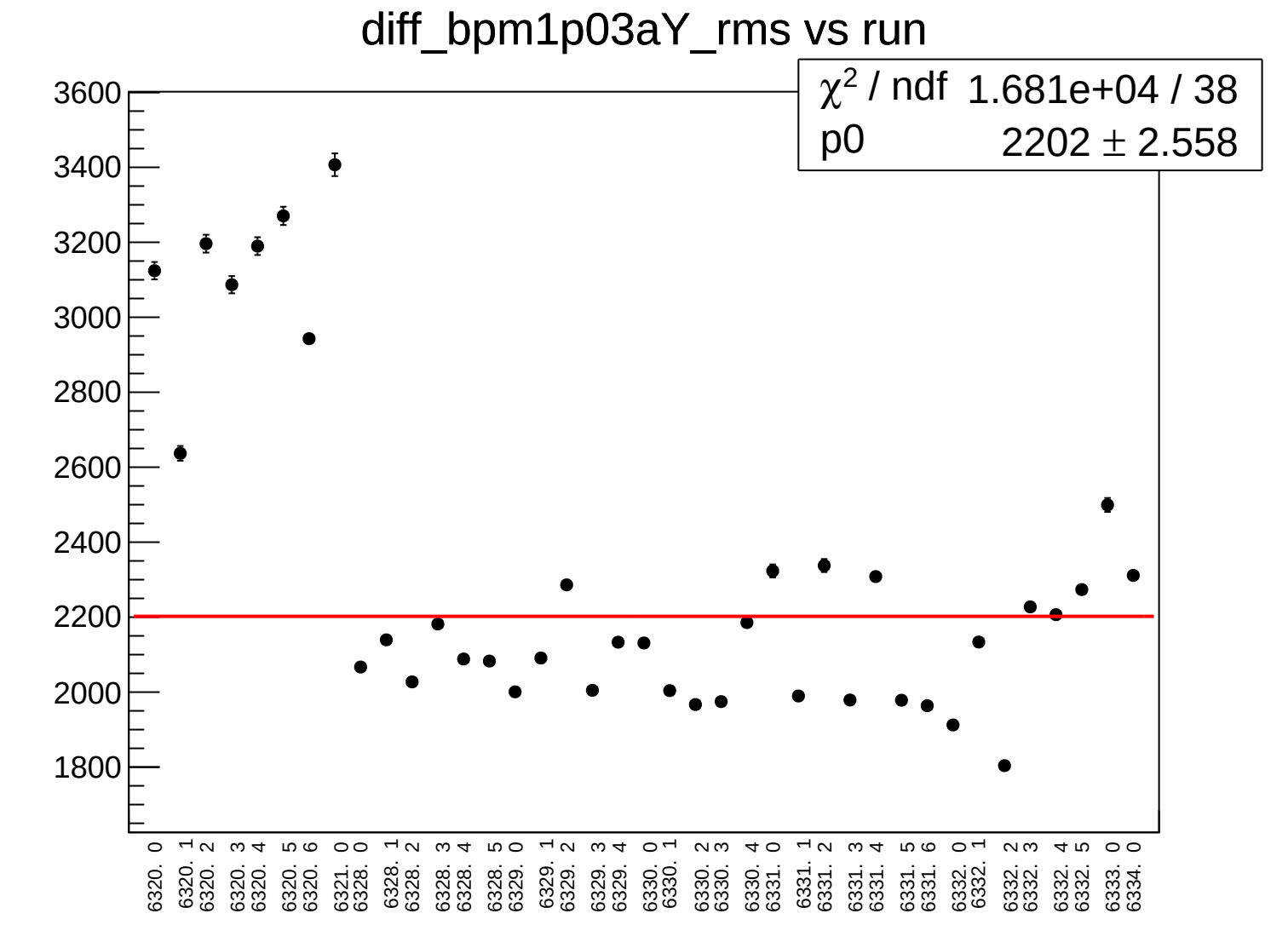

diff_bpm1p02bY_rms vs run
χ² / ndf 1.044e+04 / 38
p0 2696 ± 3.119
3800
3600
3400
3200
3000
2800
2600
2400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

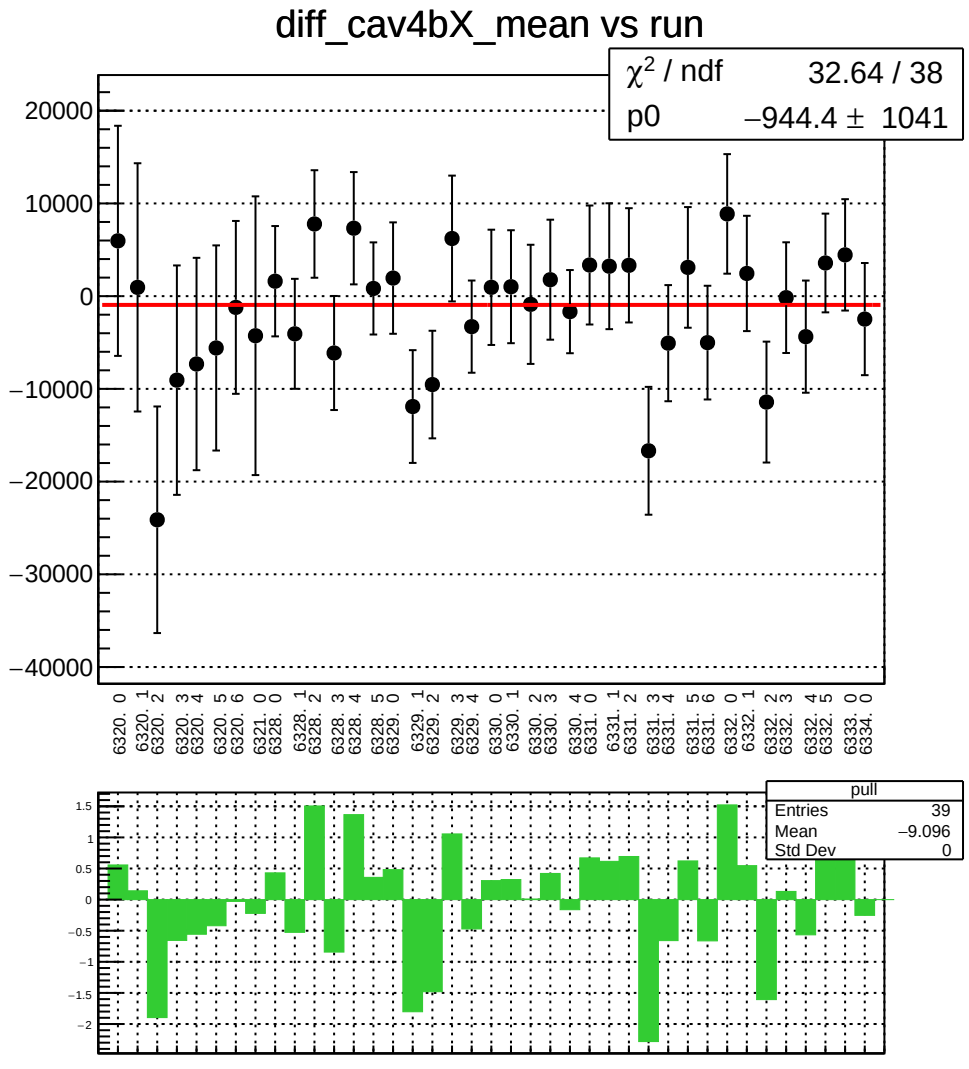

diff_bpm1p03aX_mean vs run
χ² / ndf 33.31 / 38
p0 −4.914 ± 3.08
pull
Entries 39
Mean −6.021
Std Dev 0
pull1D
Entries 39
Mean −0.02641
Std Dev 0.9238

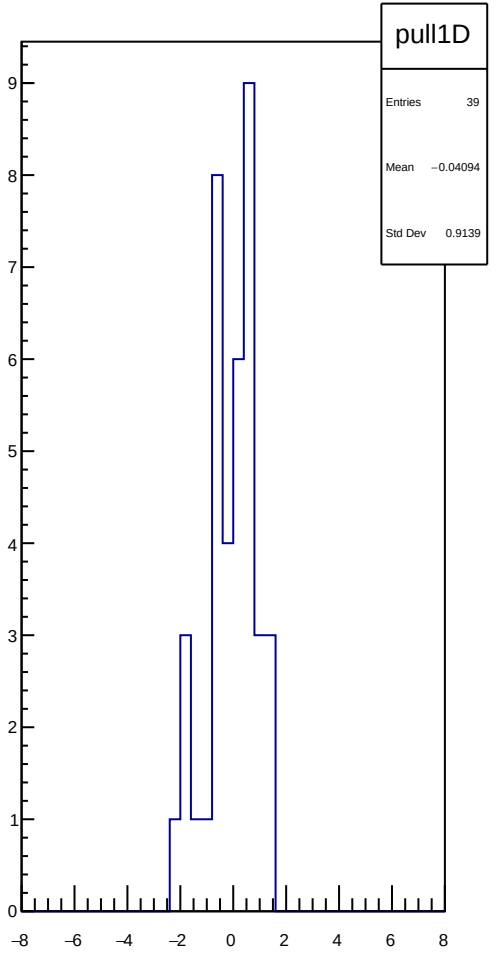

diff_bpm1p03aX_rms vs run
χ² / ndf 4.268e+04 / 38
p0 1842 ± 2.178
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

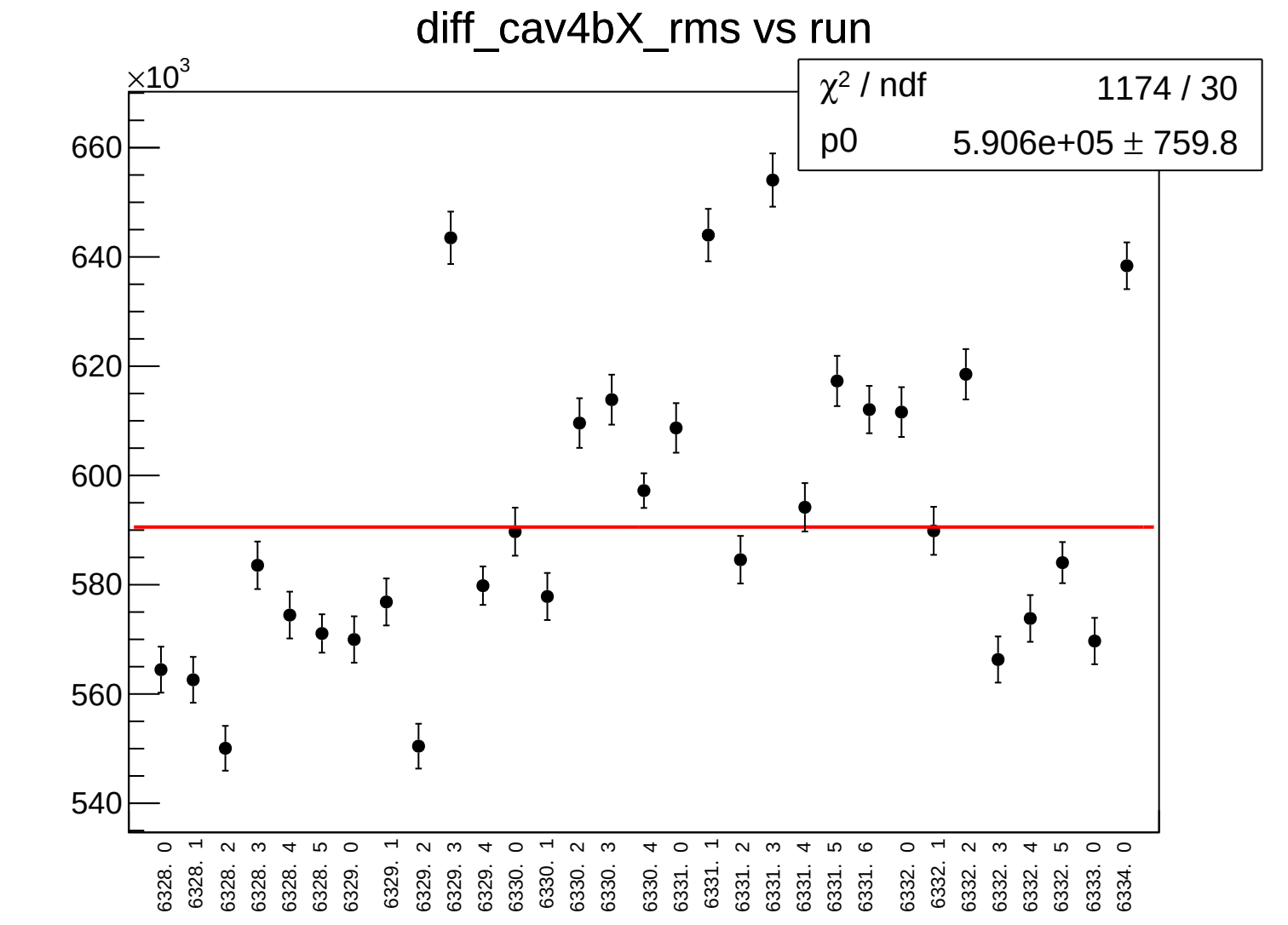

diff_bpm1p03aY_mean vs run
χ² / ndf 34.85 / 38
p0 −2.091 ± 3.617
pull
Entries 39
Mean −33.43
Std Dev 0

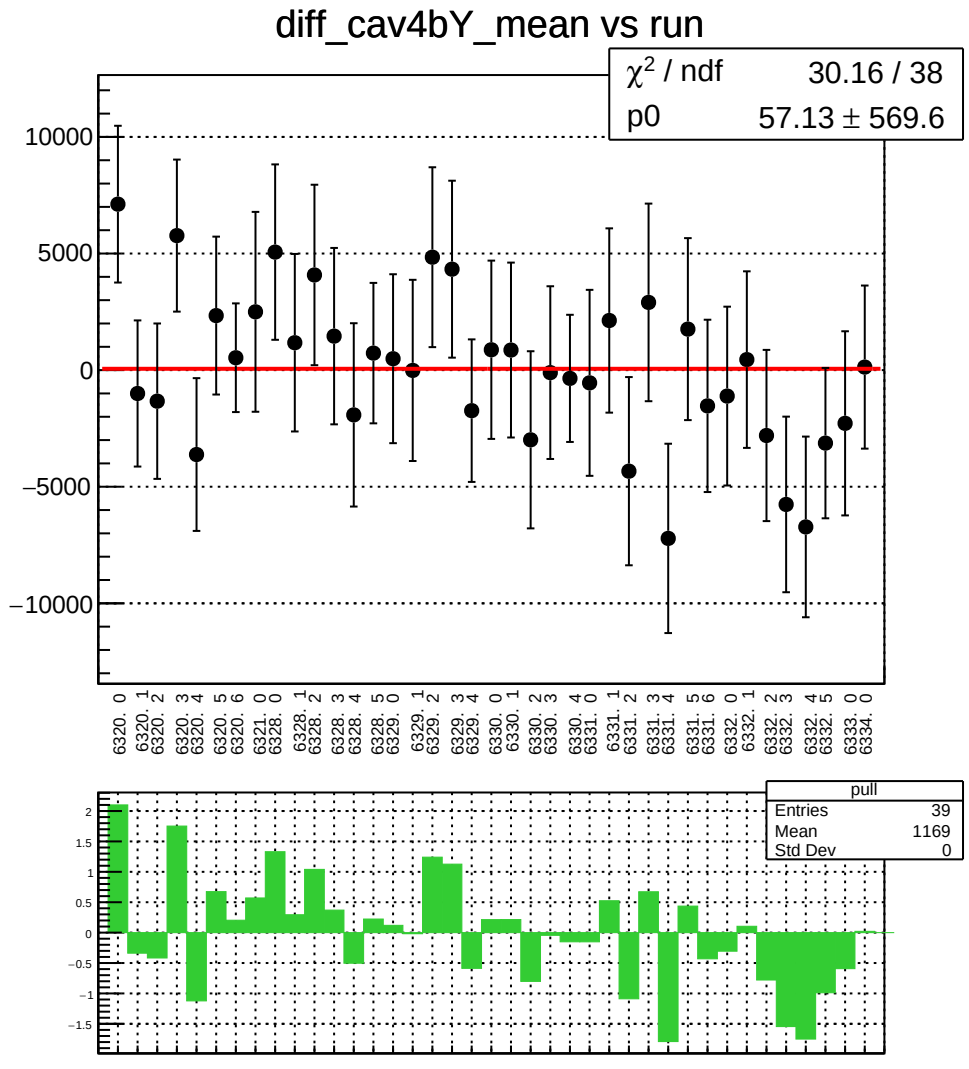

pull1D
Entries 39
Mean 0.05582
Std Dev 0.9437

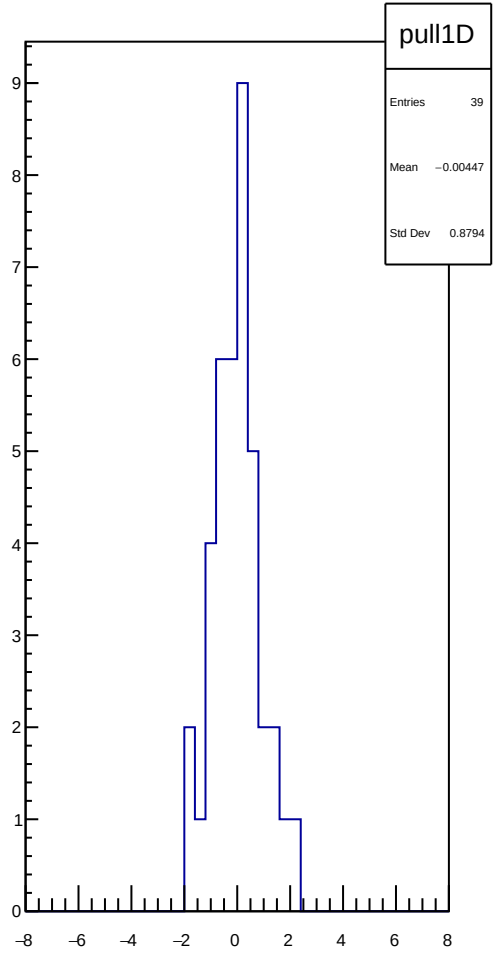

diff_bpm1p03aY_rms vs run
χ² / ndf 1.681e+04 / 38
p0 2202 ± 2.558
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

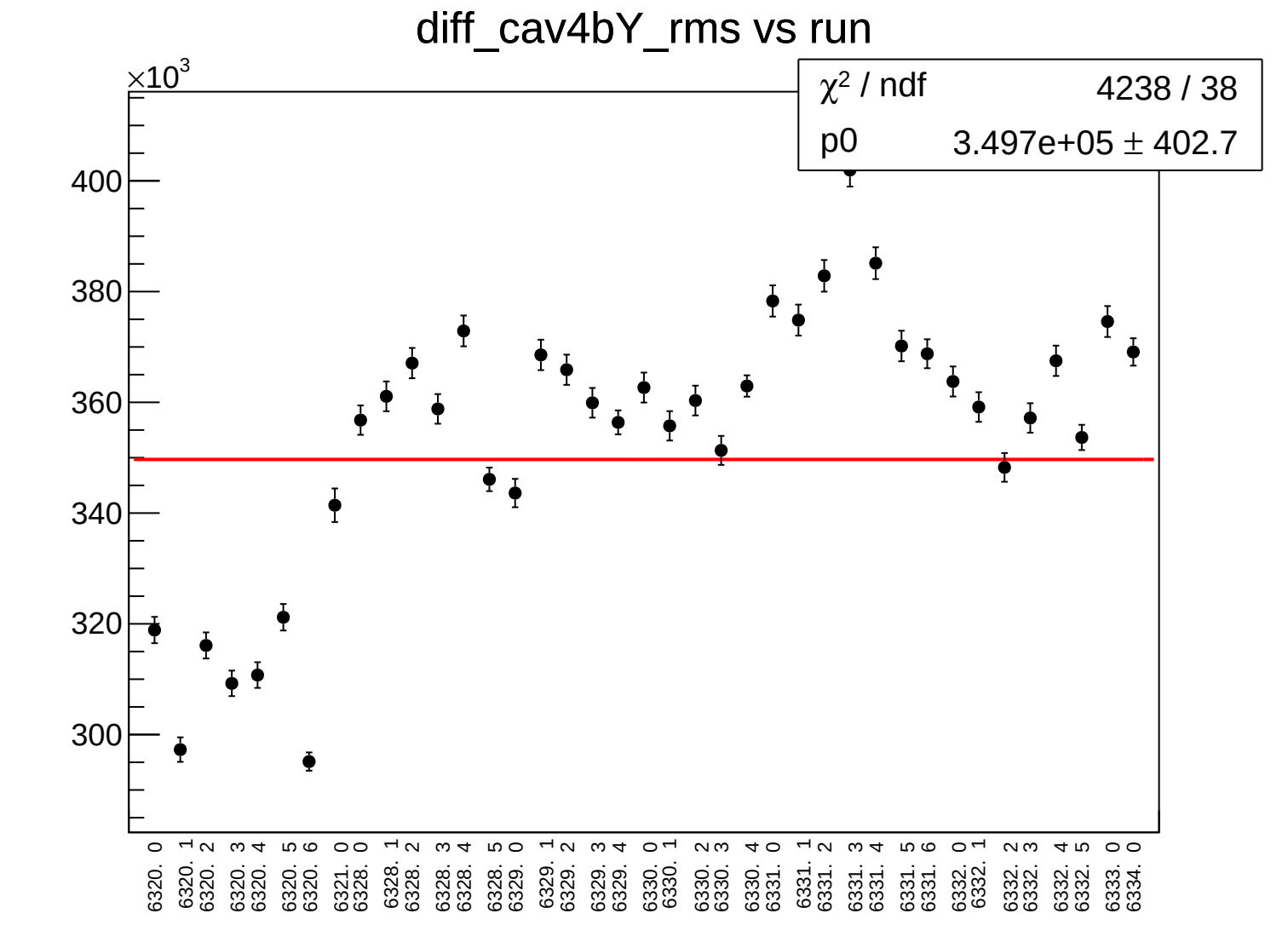

diff_cav4bX_mean vs run
χ² / ndf 32.64 / 38
p0 −944.4 ± 1041
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −9.096
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

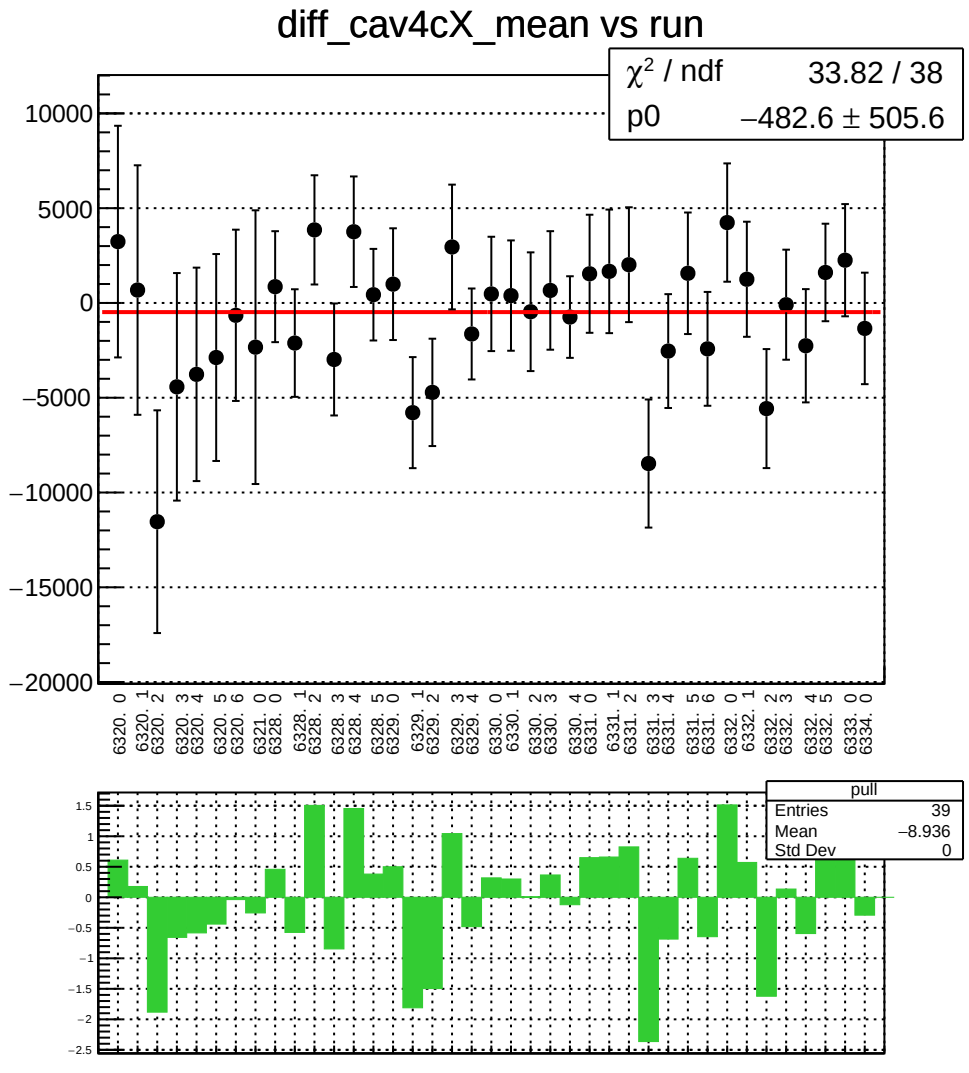

pull1D
Entries 39
Mean −0.04094
Std Dev 0.9139
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

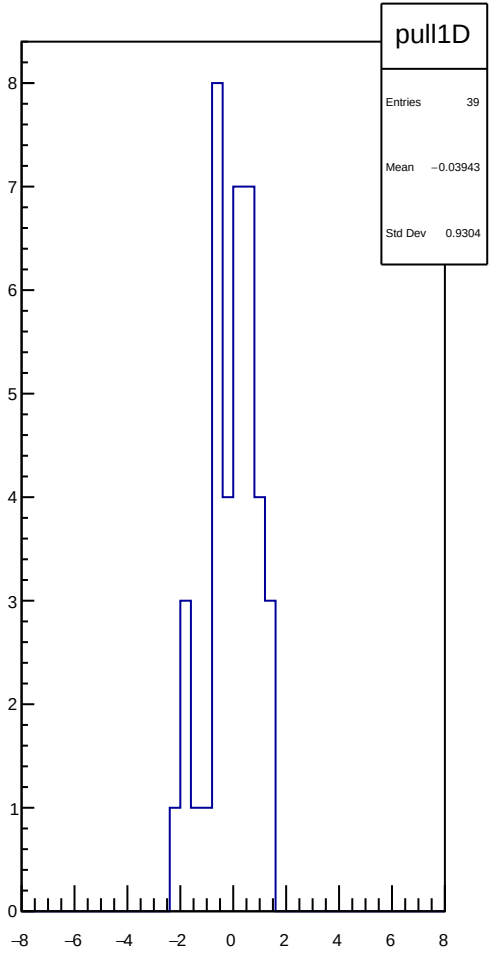

diff_cav4bX_rms vs run
×10^3
660
640
620
600
580
560
540
χ² / ndf 1174 / 30
p0 5.906e+05 ± 759.8
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

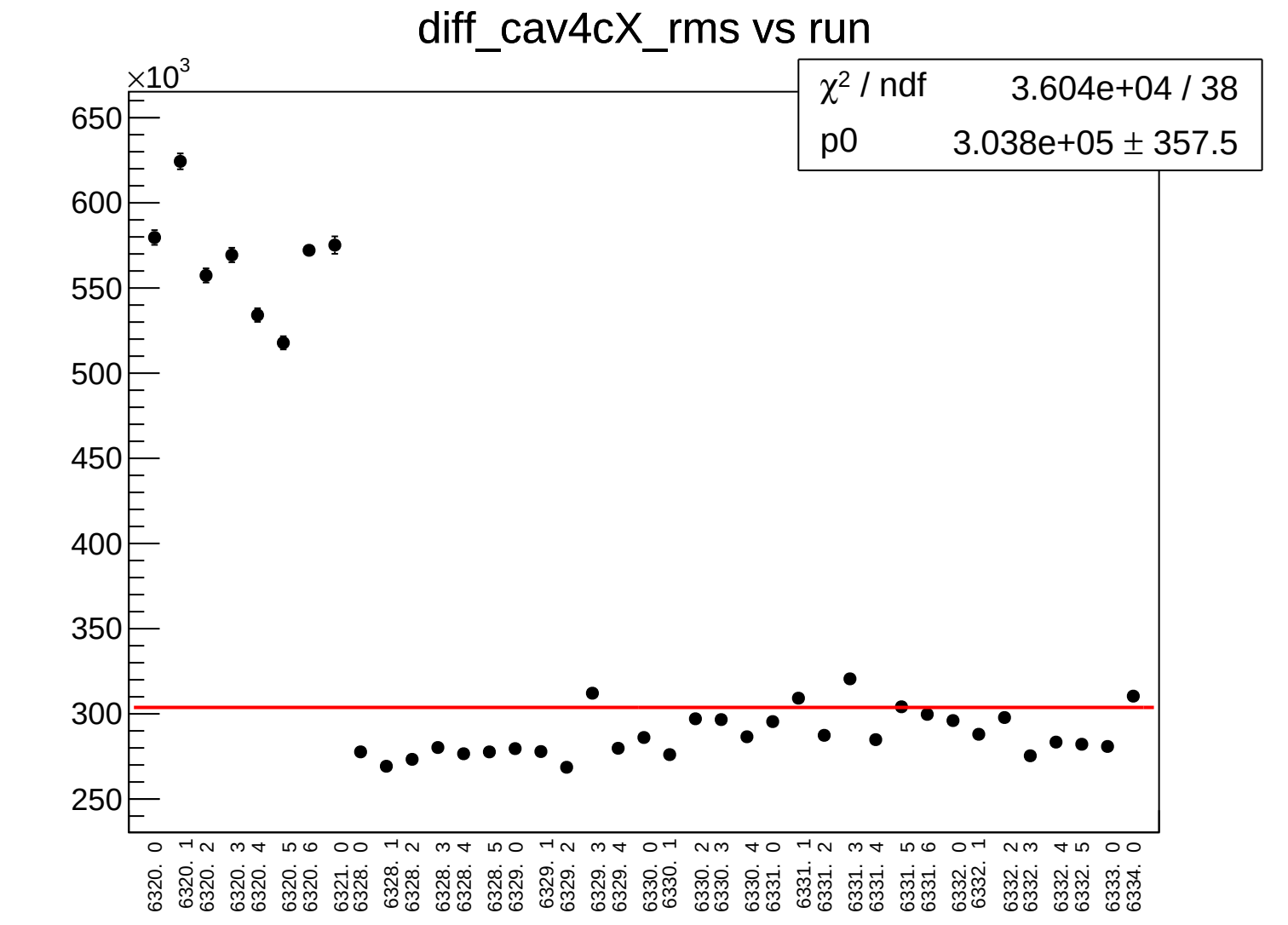

diff_cav4bY_mean vs run
χ² / ndf 30.16 / 38
p0 57.13 ± 569.6
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

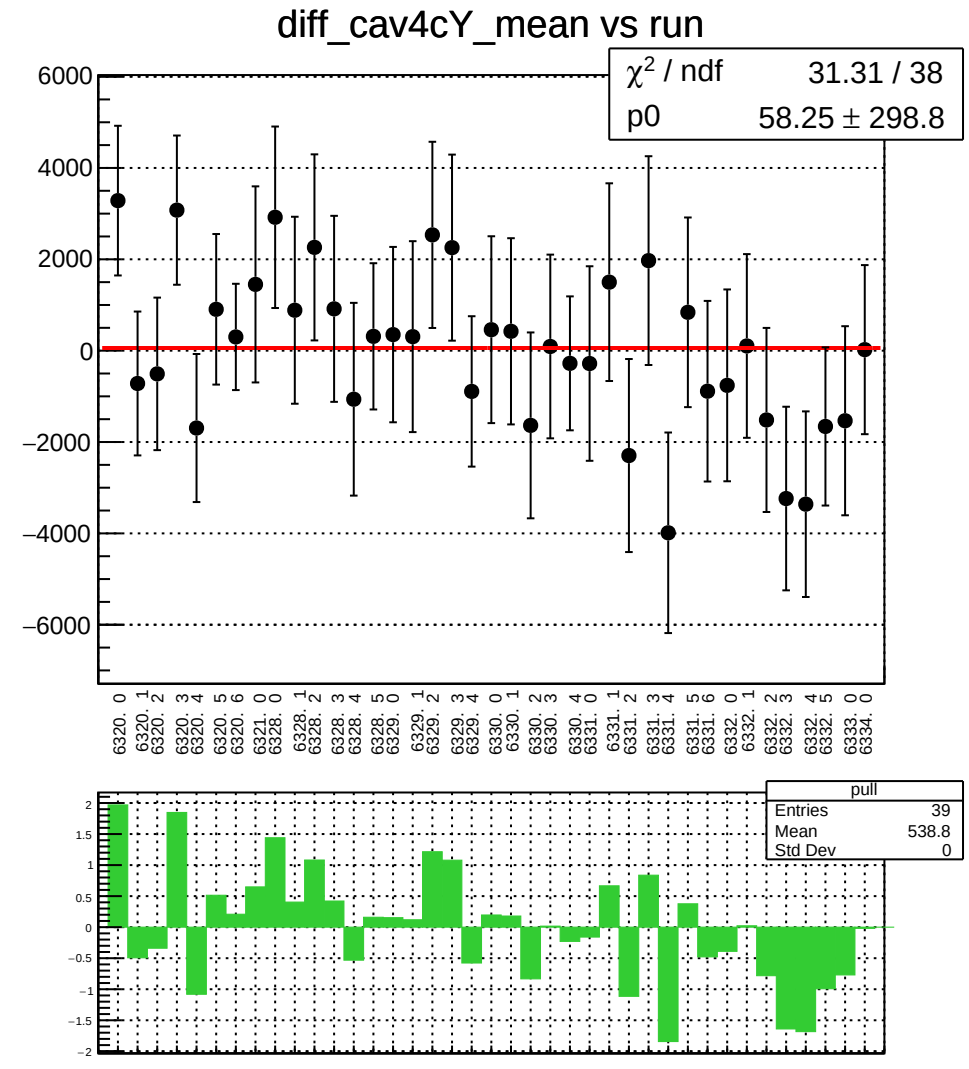

pull1D
Entries 39
Mean −0.00447
Std Dev 0.8794
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

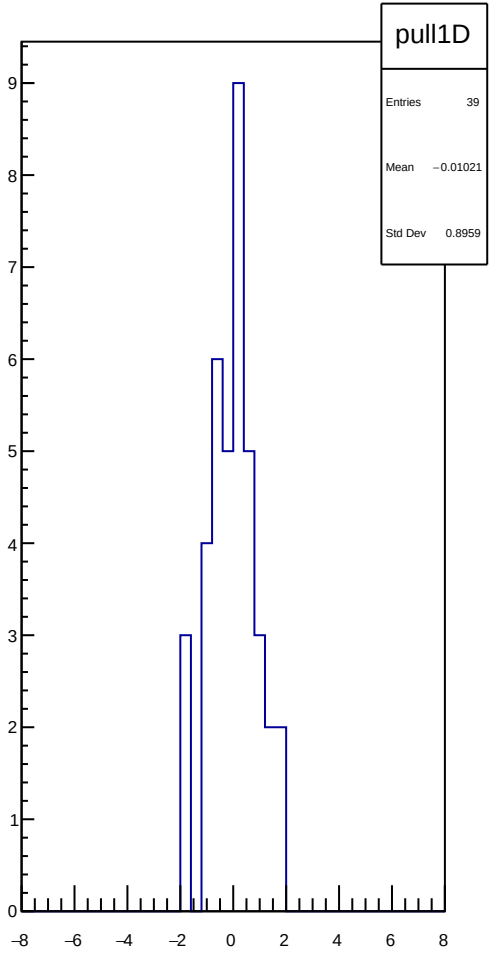

diff_cav4bY_rms vs run
×10^3
χ² / ndf 4238 / 38
p0 3.497e+05 ± 402.7
400
380
360
340
320
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

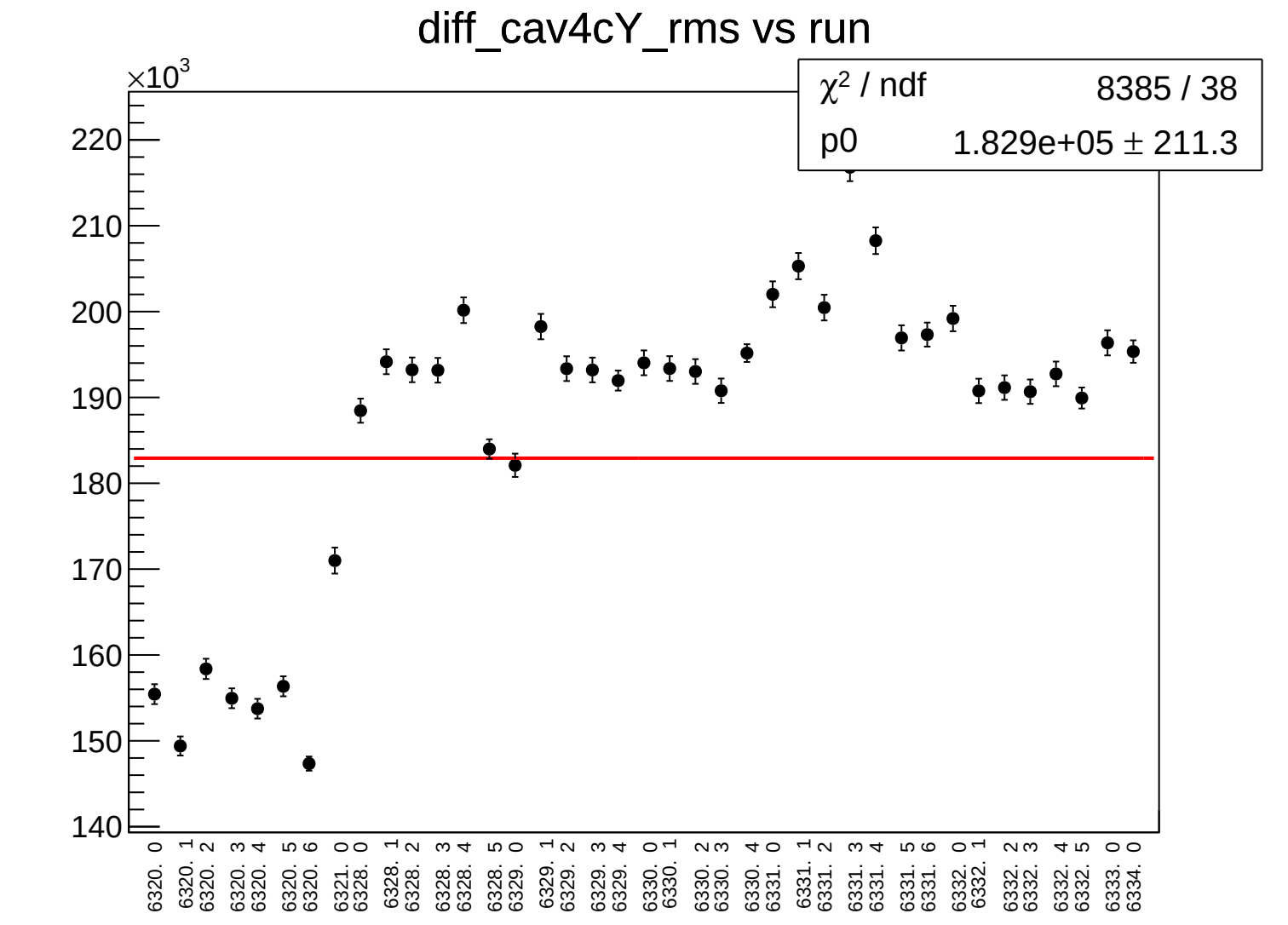

diff_cav4cX_mean vs run
χ² / ndf 33.82 / 38
p0 −482.6 ± 505.6
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.936
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

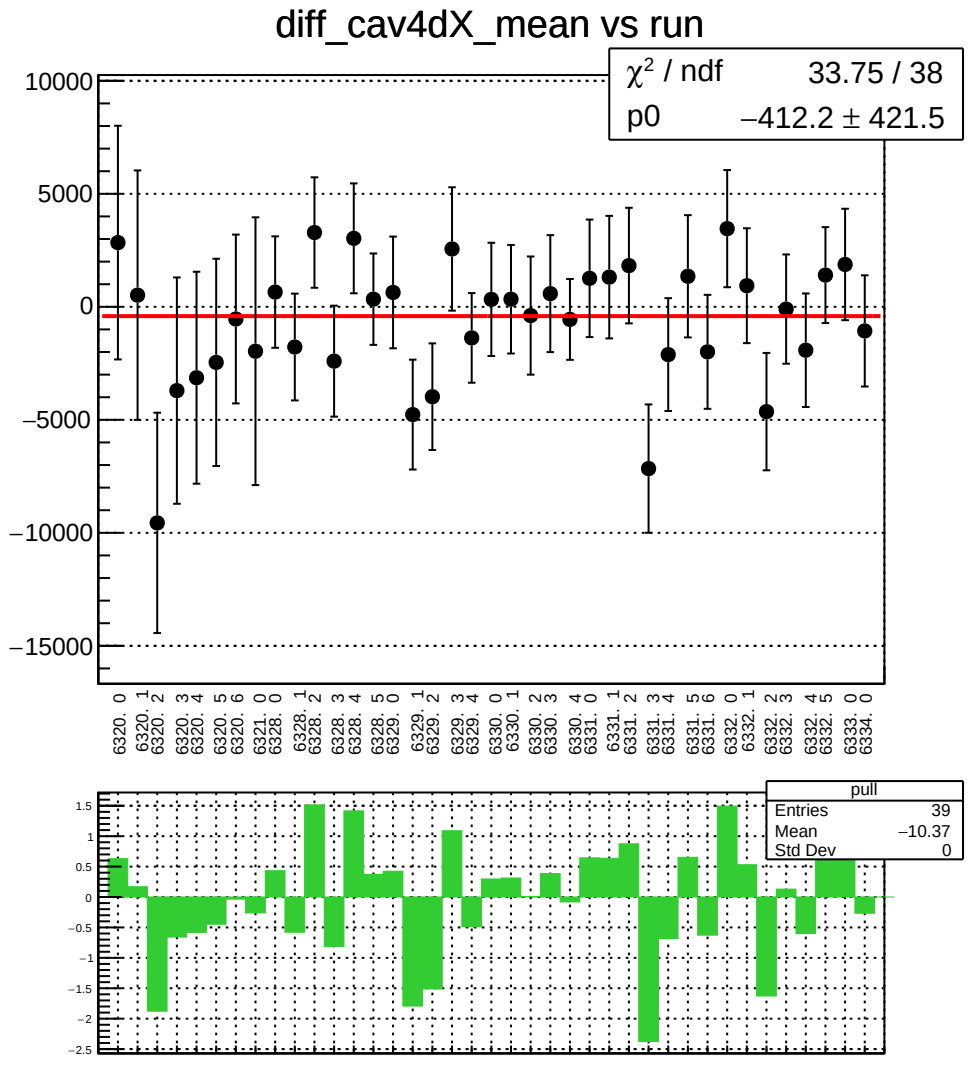

pull1D
Entries 39
Mean −0.03943
Std Dev 0.9304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

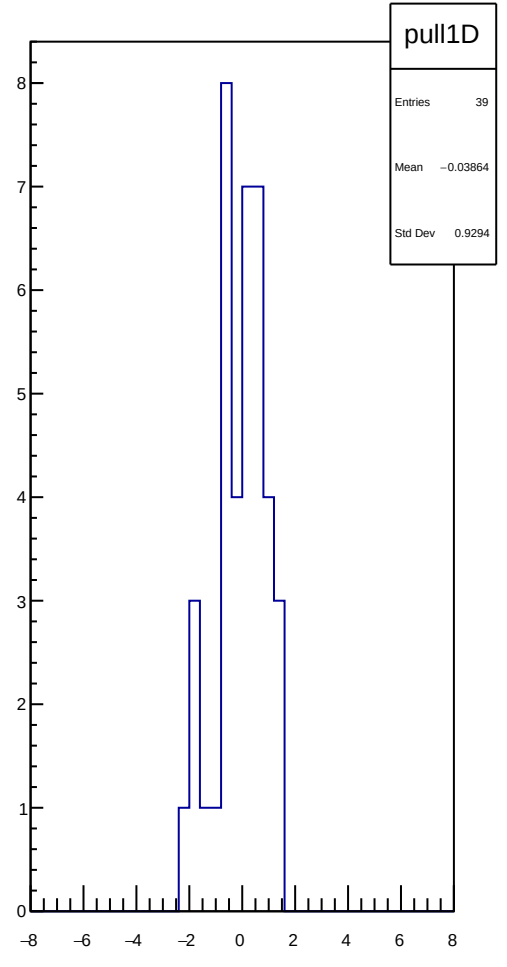

diff_cav4cX_rms vs run
×10^3
χ² / ndf 3.604e+04 / 38
p0 3.038e+05 ± 357.5
650
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

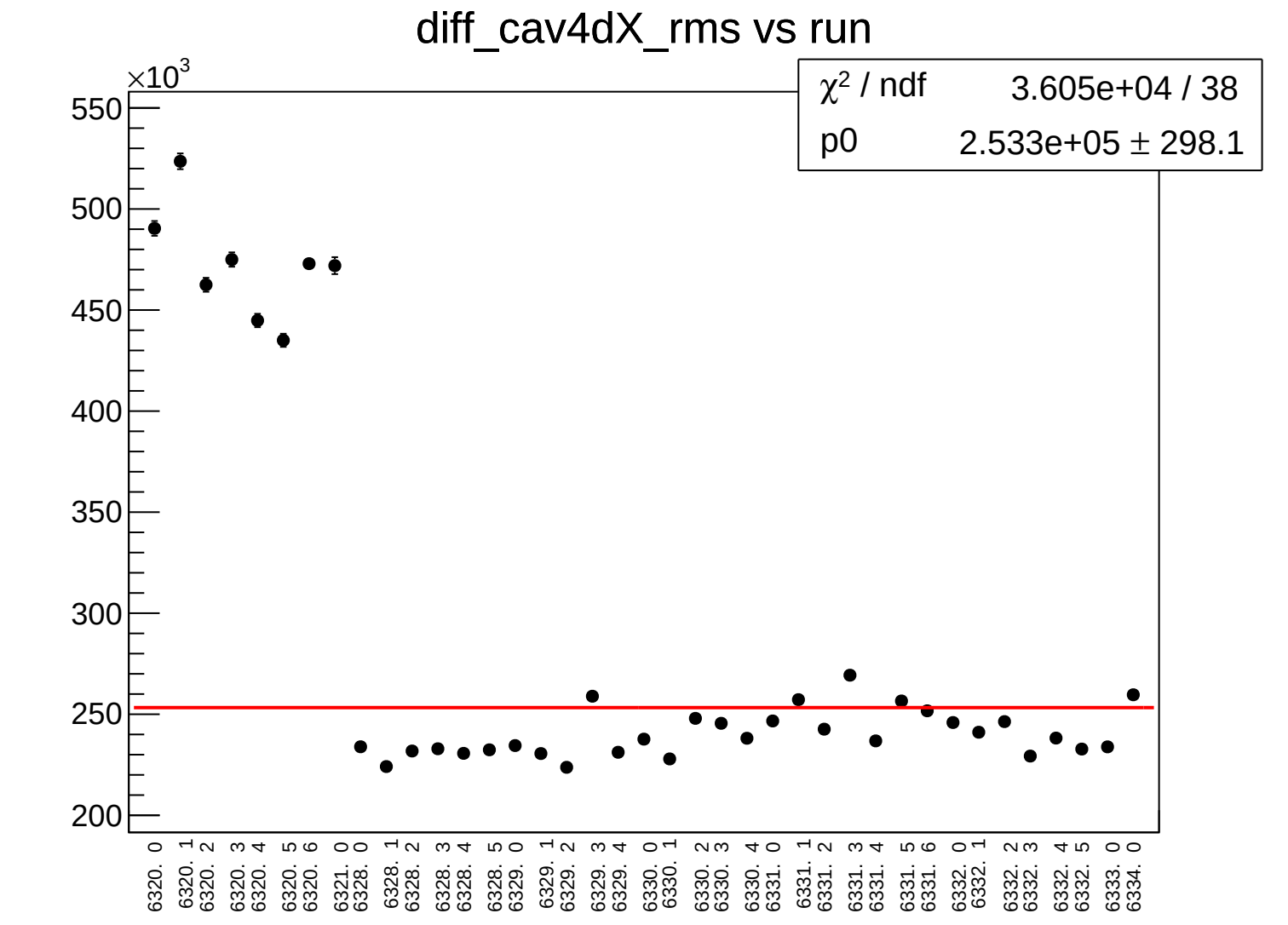

diff_cav4cY_mean vs run
χ² / ndf 31.31 / 38
p0 58.25 ± 298.8
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 538.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

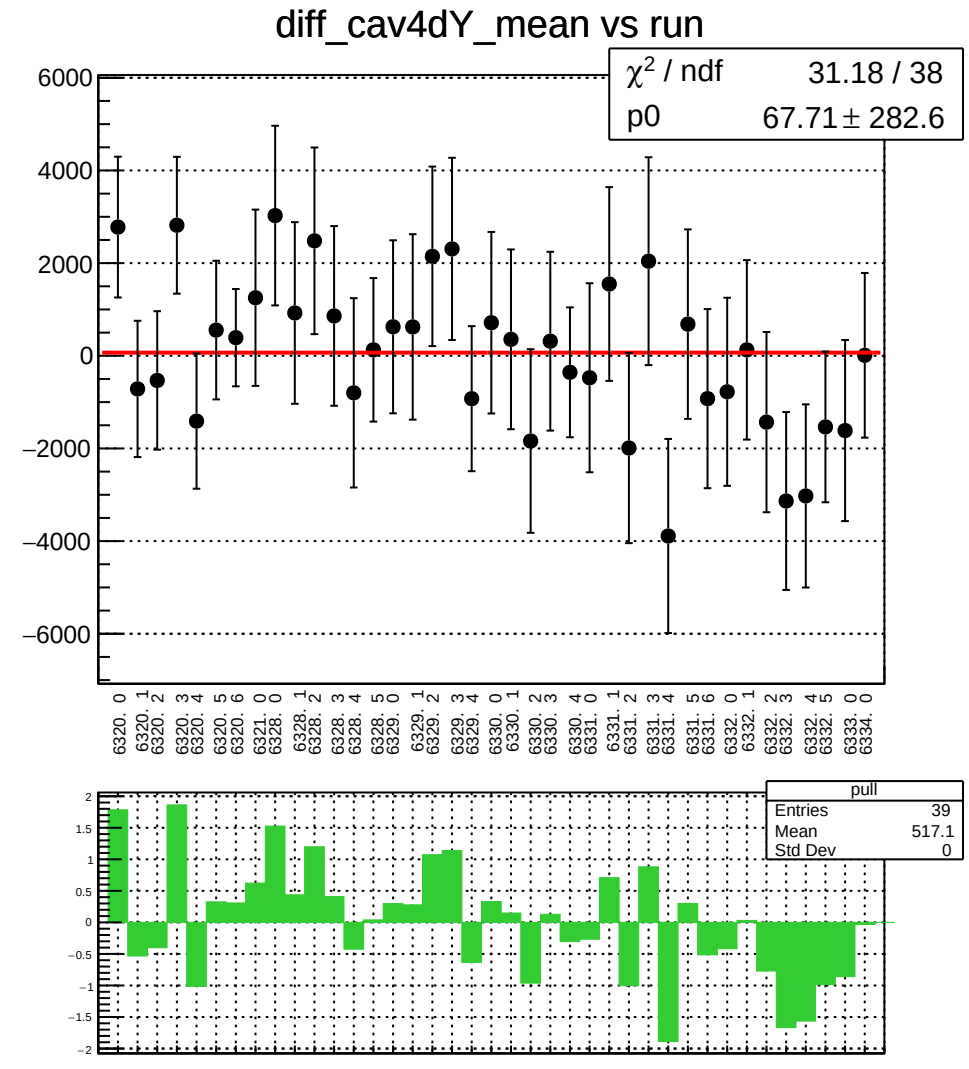

pull1D
Entries 39
Mean −0.01021
Std Dev 0.8959
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

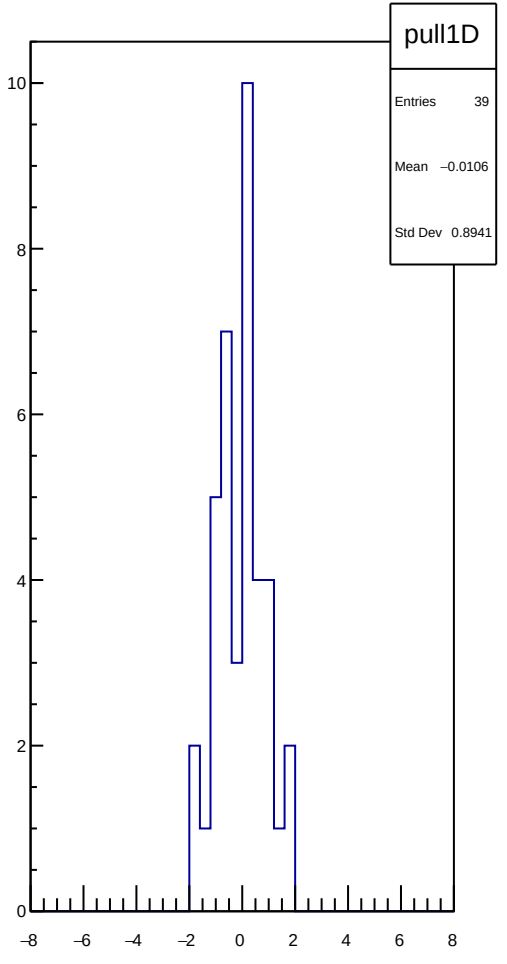

diff_cav4cY_rms vs run
×10^3
χ² / ndf 8385 / 38
p0 1.829e+05 ± 211.3
220
210
200
190
180
170
160
150
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

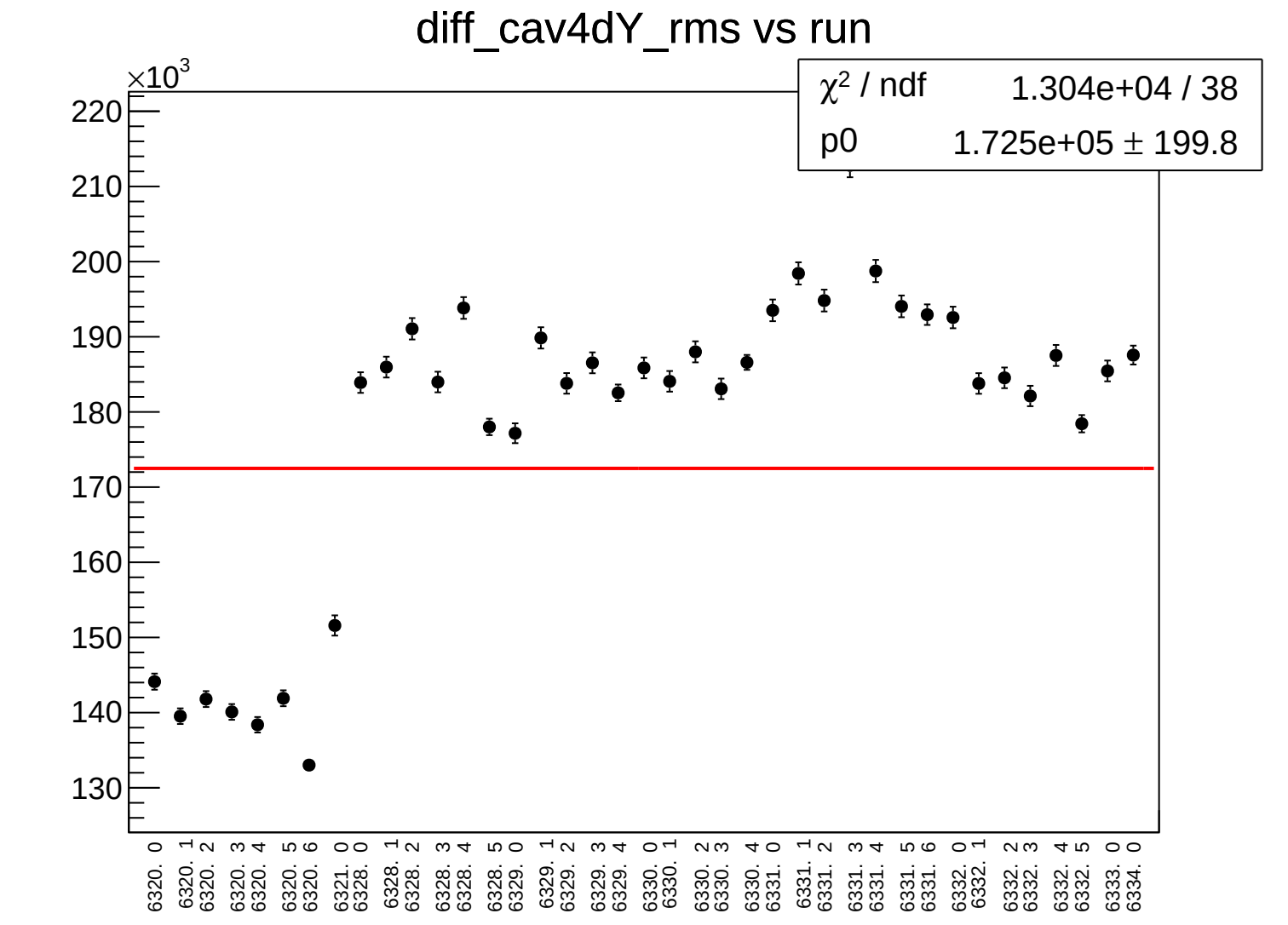

diff_cav4dX_mean vs run
χ² / ndf 33.75 / 38
p0 −412.2 ± 421.5
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

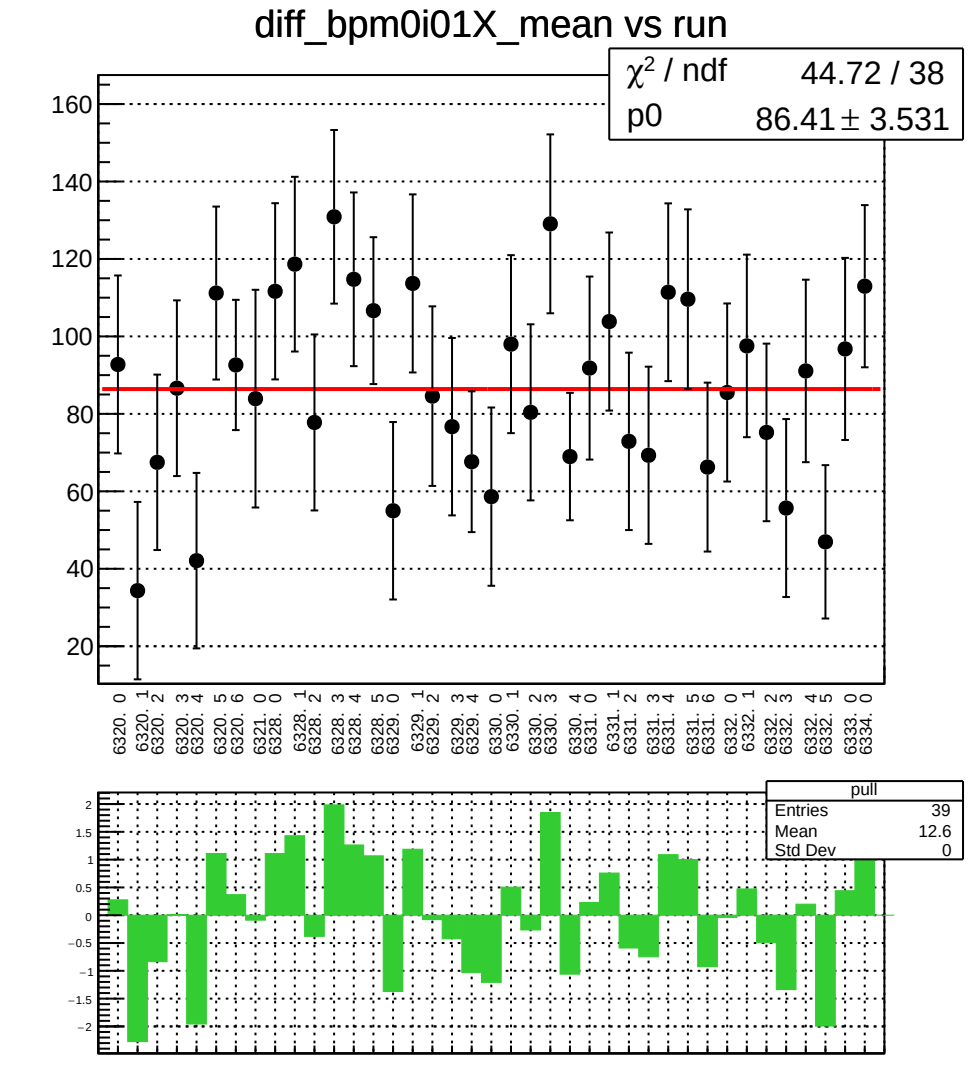

pull1D
Entries 39
Mean −0.03864
Std Dev 0.9294
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

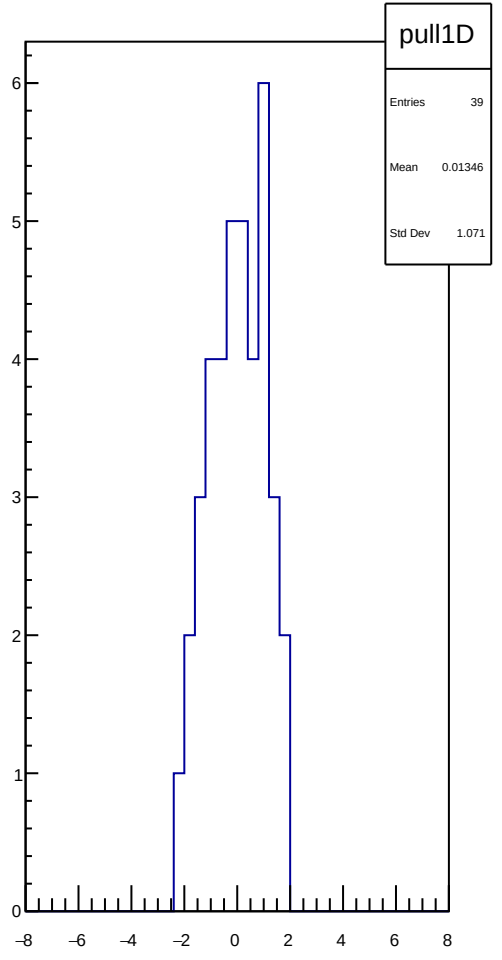

diff_cav4dX_rms vs run
×10^3
χ² / ndf 3.605e+04 / 38
p0 2.533e+05 ± 298.1
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

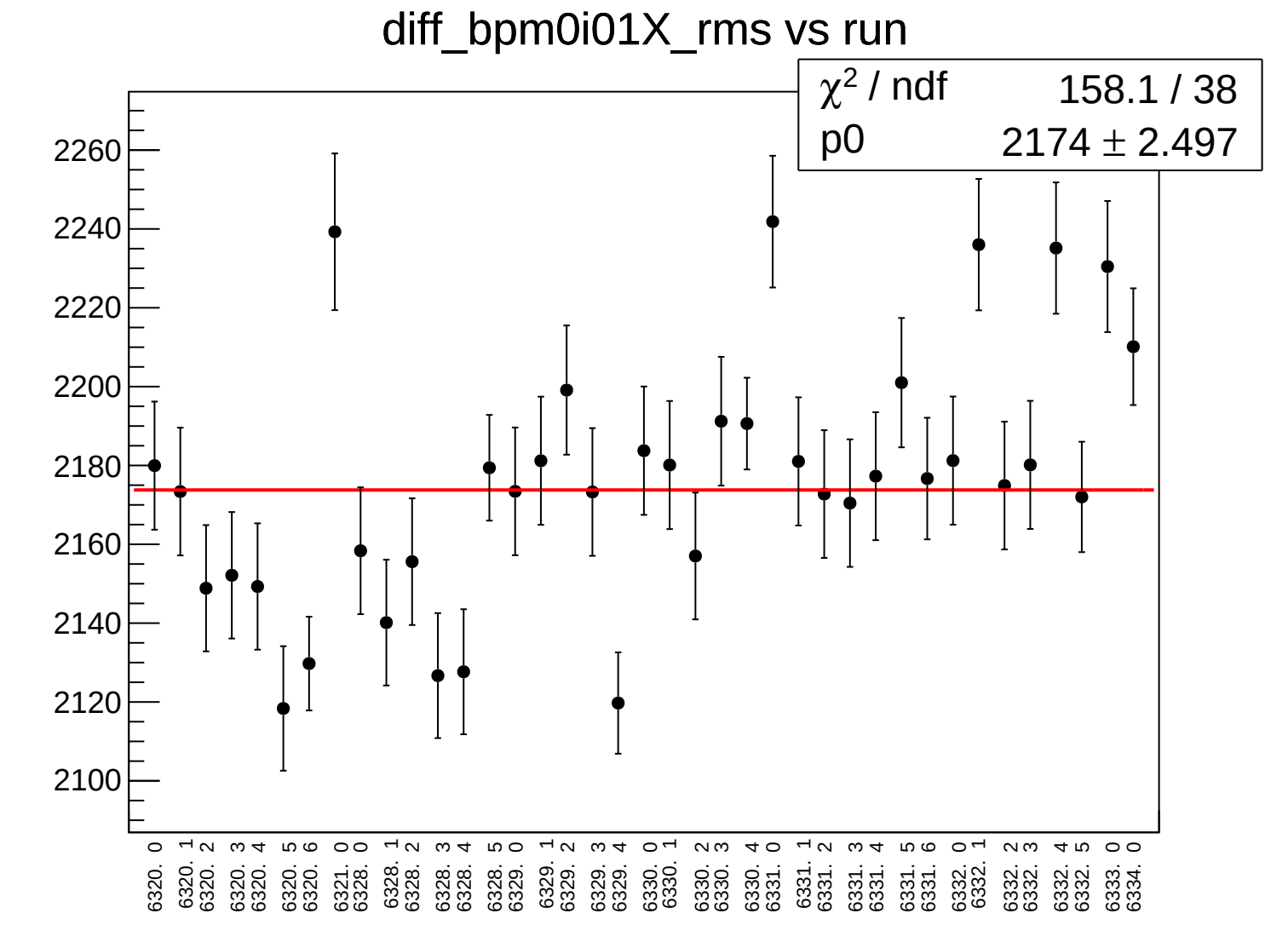

diff_cav4dY_mean vs run
χ² / ndf 31.18 / 38
p0 67.71 ± 282.6
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 517.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

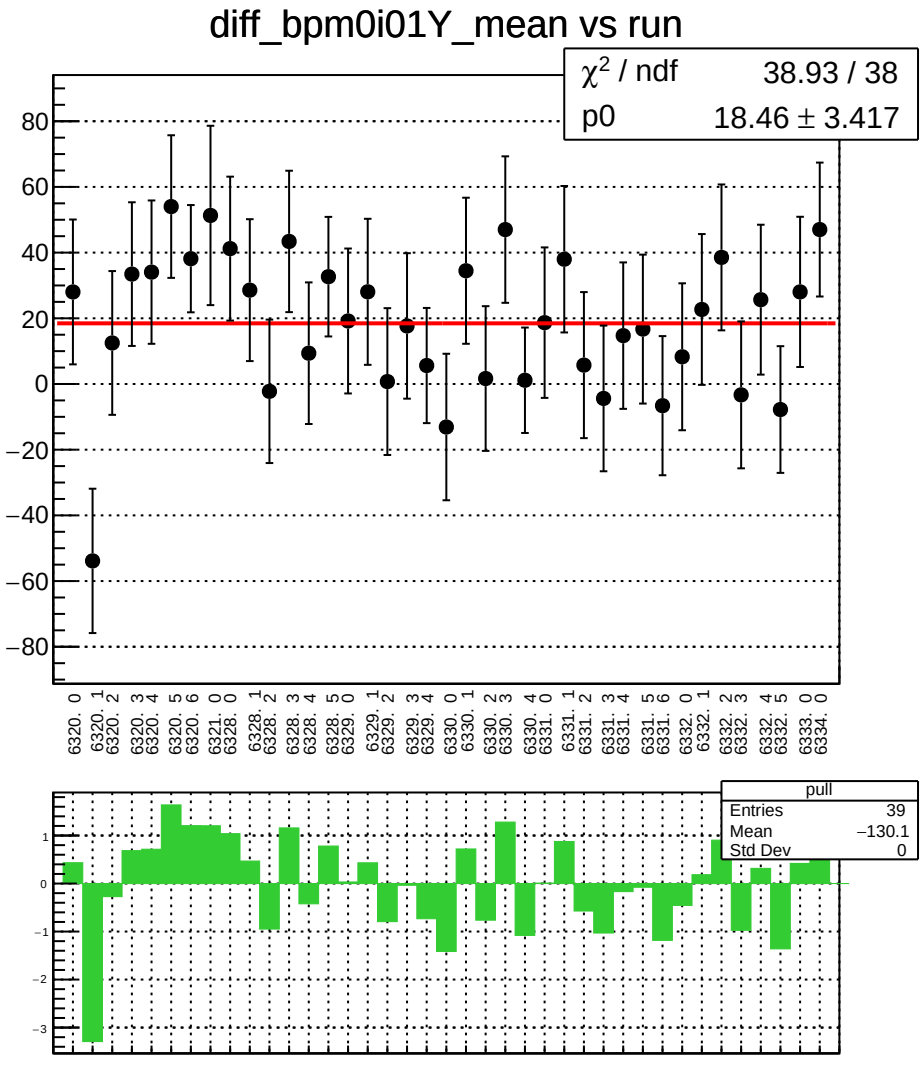

pull1D
Entries 39
Mean −0.0106
Std Dev 0.8941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

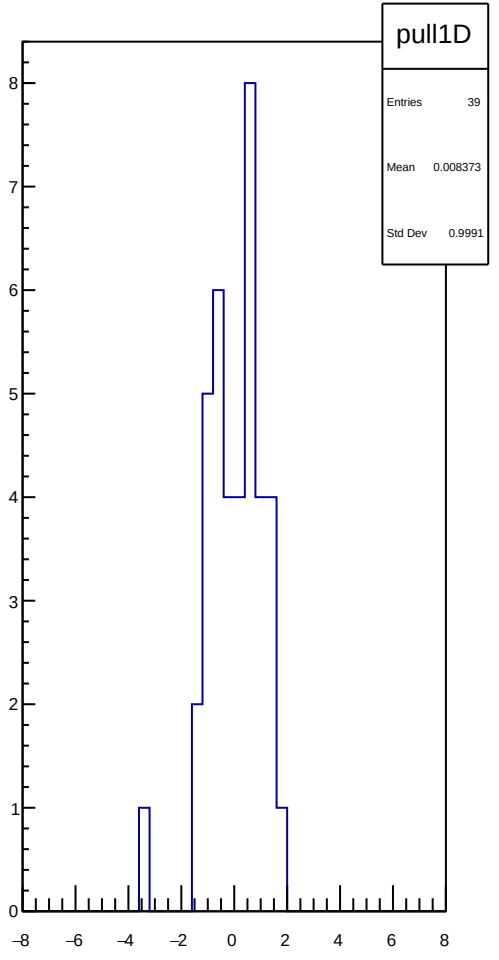

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.304e+04 / 38
p0 1.725e+05 ± 199.8
220
210
200
190
180
170
160
150
140
130
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

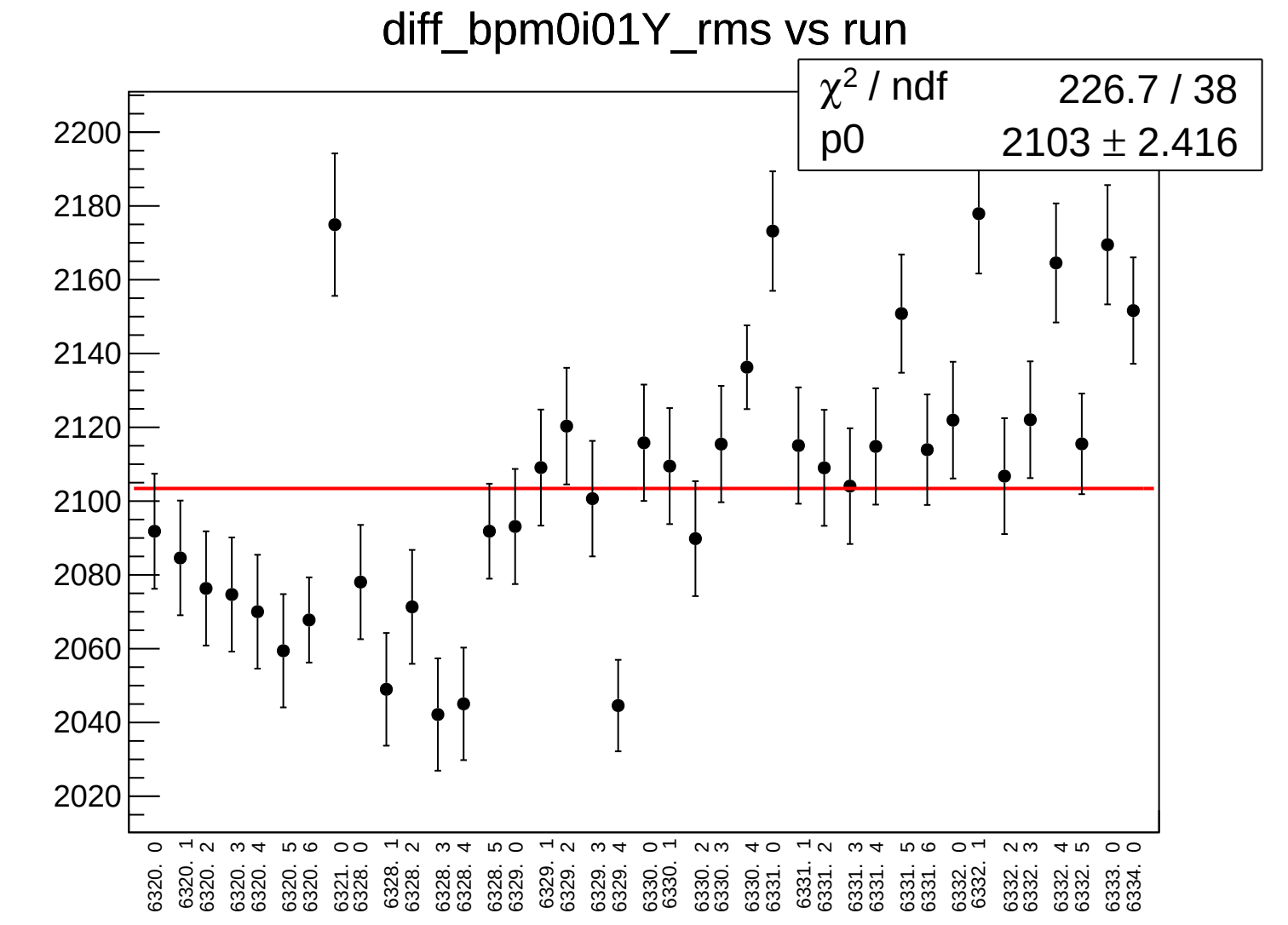

diff_bpm0i01X_mean vs run
χ² / ndf 44.72 / 38
p0 86.41 ± 3.531
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 12.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

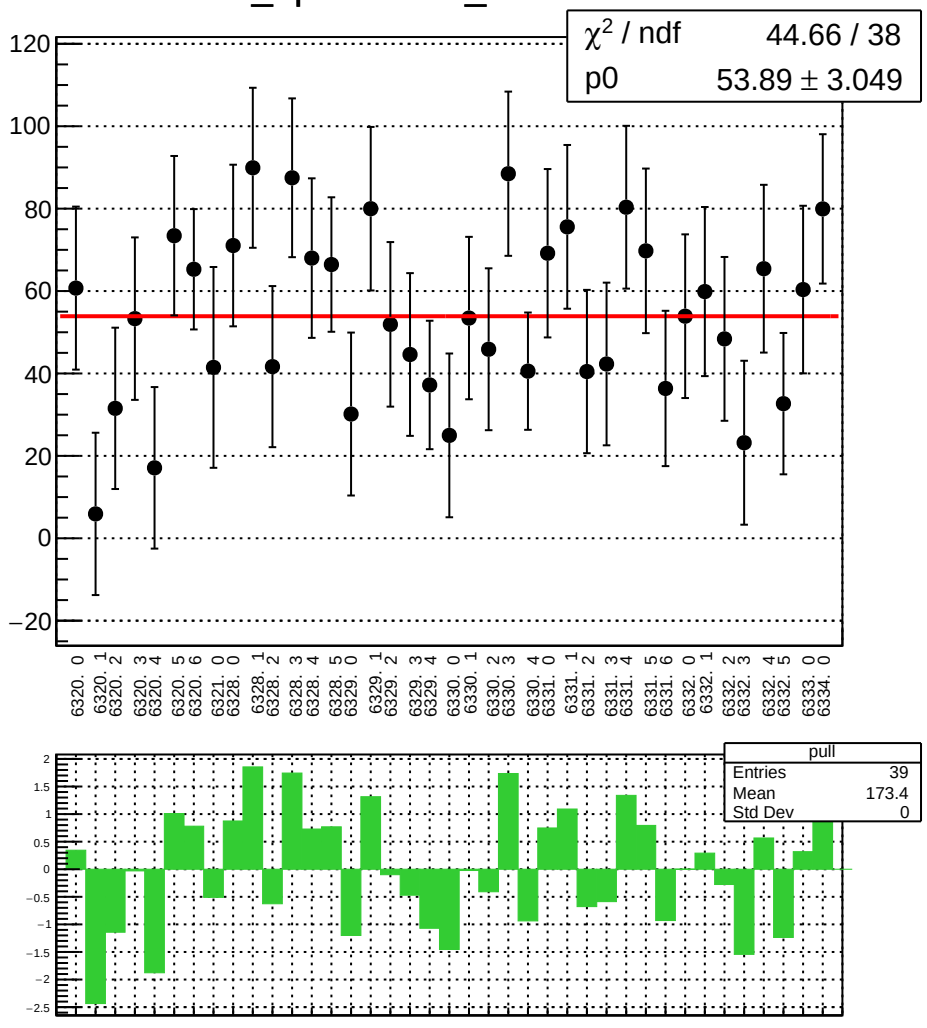

pull1D
Entries 39
Mean 0.01346
Std Dev 1.071
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

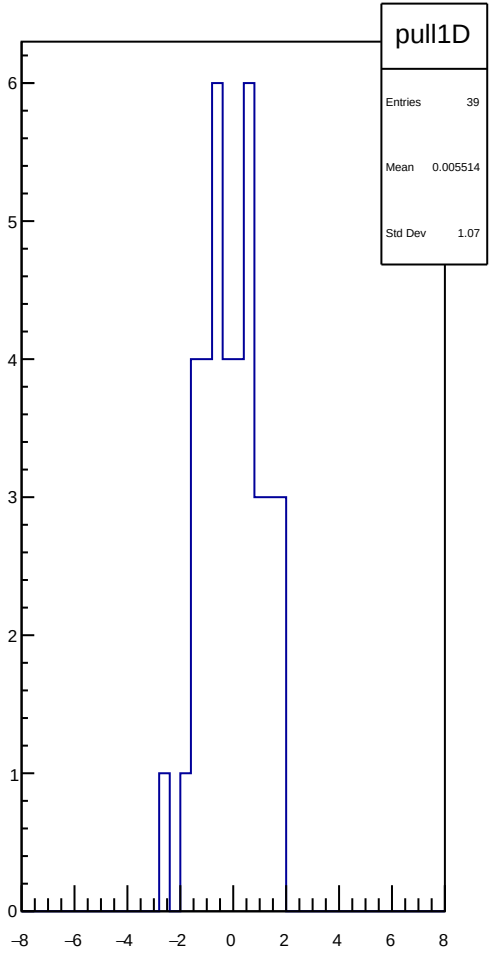

diff_bpm0i01X_rms vs run
χ² / ndf 158.1 / 38
p0 2174 ± 2.497
2260
2240
2220
2200
2180
2160
2140
2120
2100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

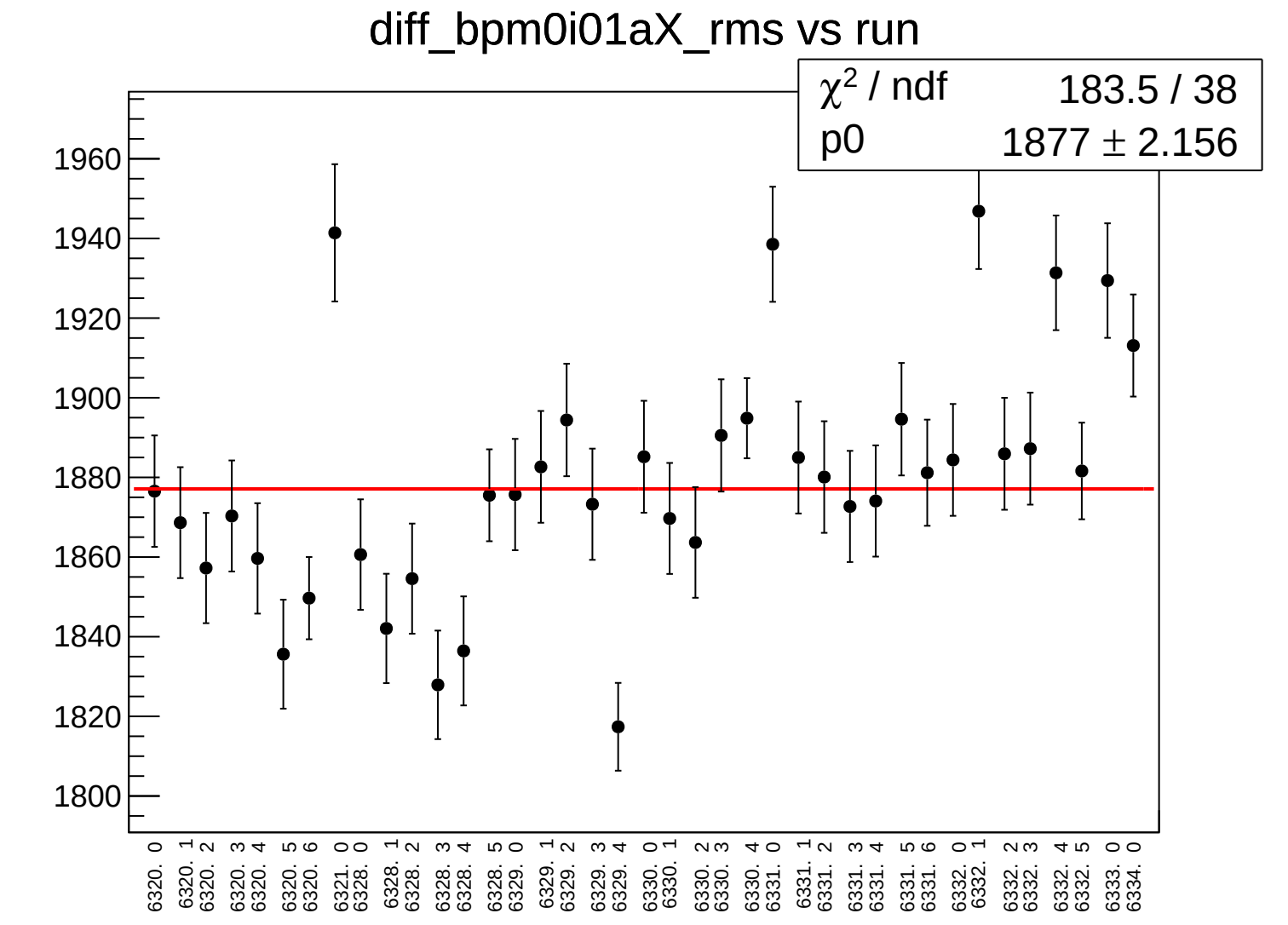

diff_bpm0i01Y_mean vs run
χ² / ndf 38.93 / 38
p0 18.46 ± 3.417
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −130.1
Std Dev 0
1
0
−1
−2
−3

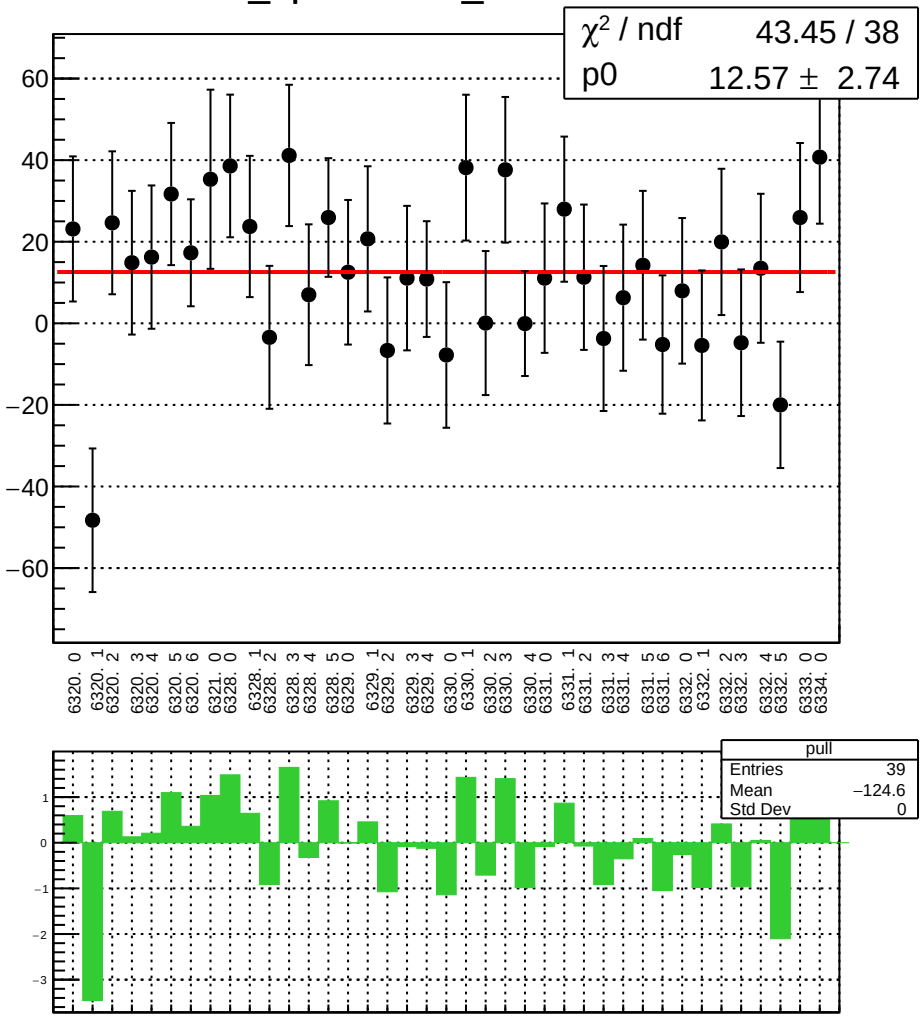

pull1D
Entries 39
Mean 0.008373
Std Dev 0.9991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

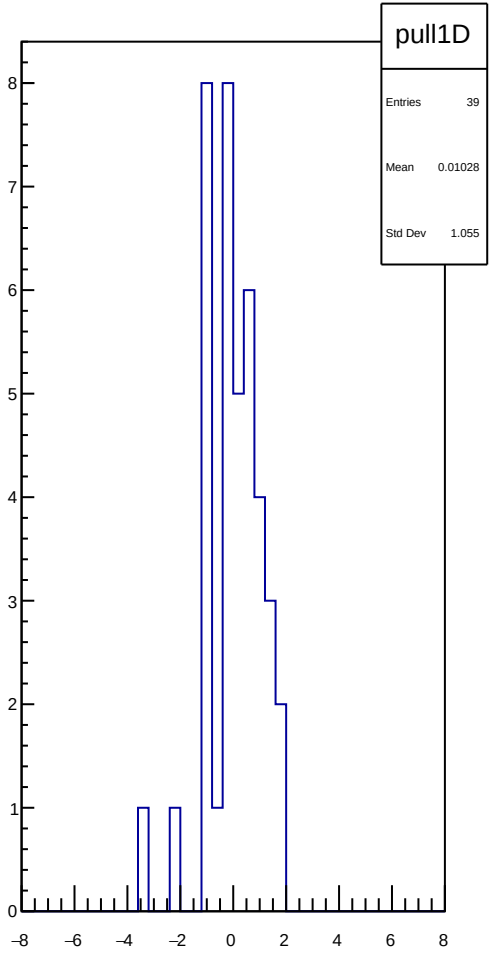

diff_bpm0i01Y_rms vs run
χ² / ndf 226.7 / 38
p0 2103 ± 2.416
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

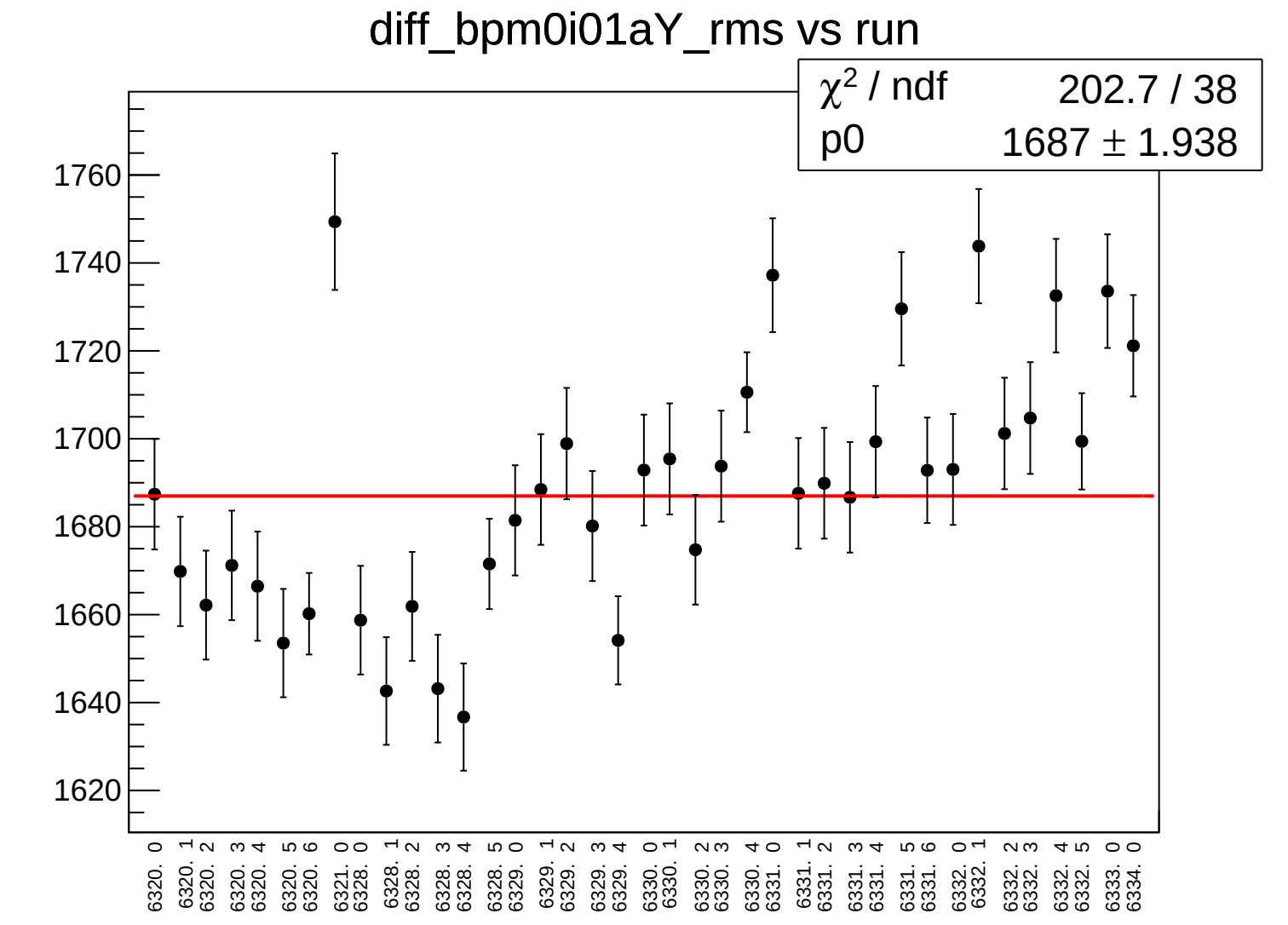

diff_bpm0i01aX_mean vs run
χ² / ndf 44.66 / 38
p0 53.89 ± 3.049
pull
Entries 39
Mean 173.4
Std Dev 0

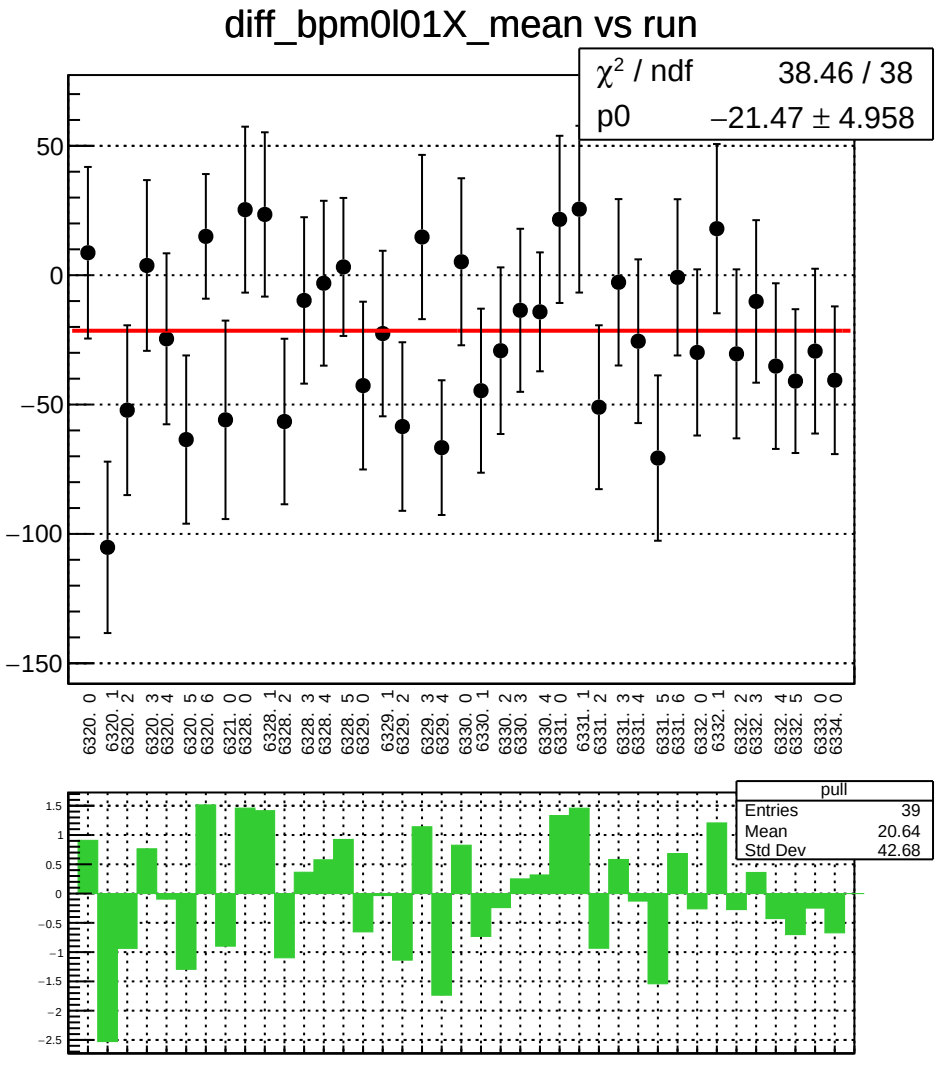

pull1D
Entries 39
Mean 0.005514
Std Dev 1.07

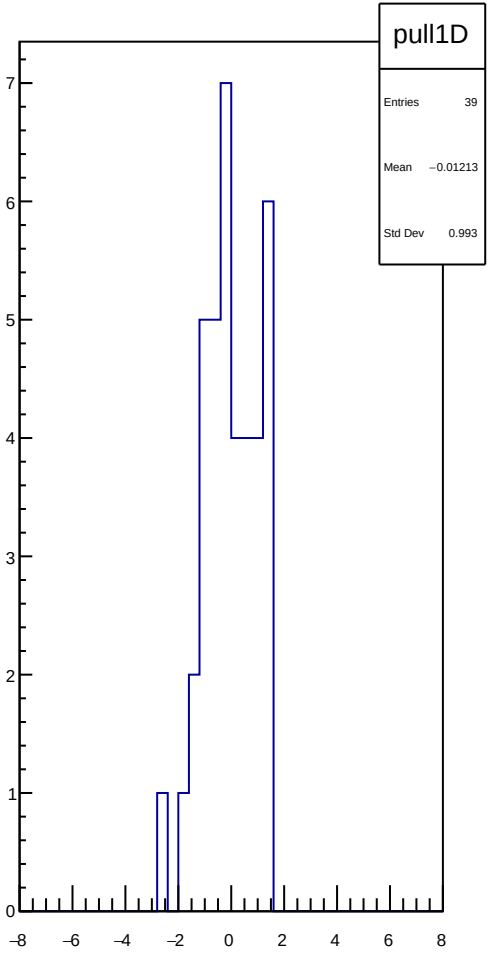

diff_bpm0i01aX_rms vs run
χ² / ndf 183.5 / 38
p0 1877 ± 2.156
1960
1940
1920
1900
1880
1860
1840
1820
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

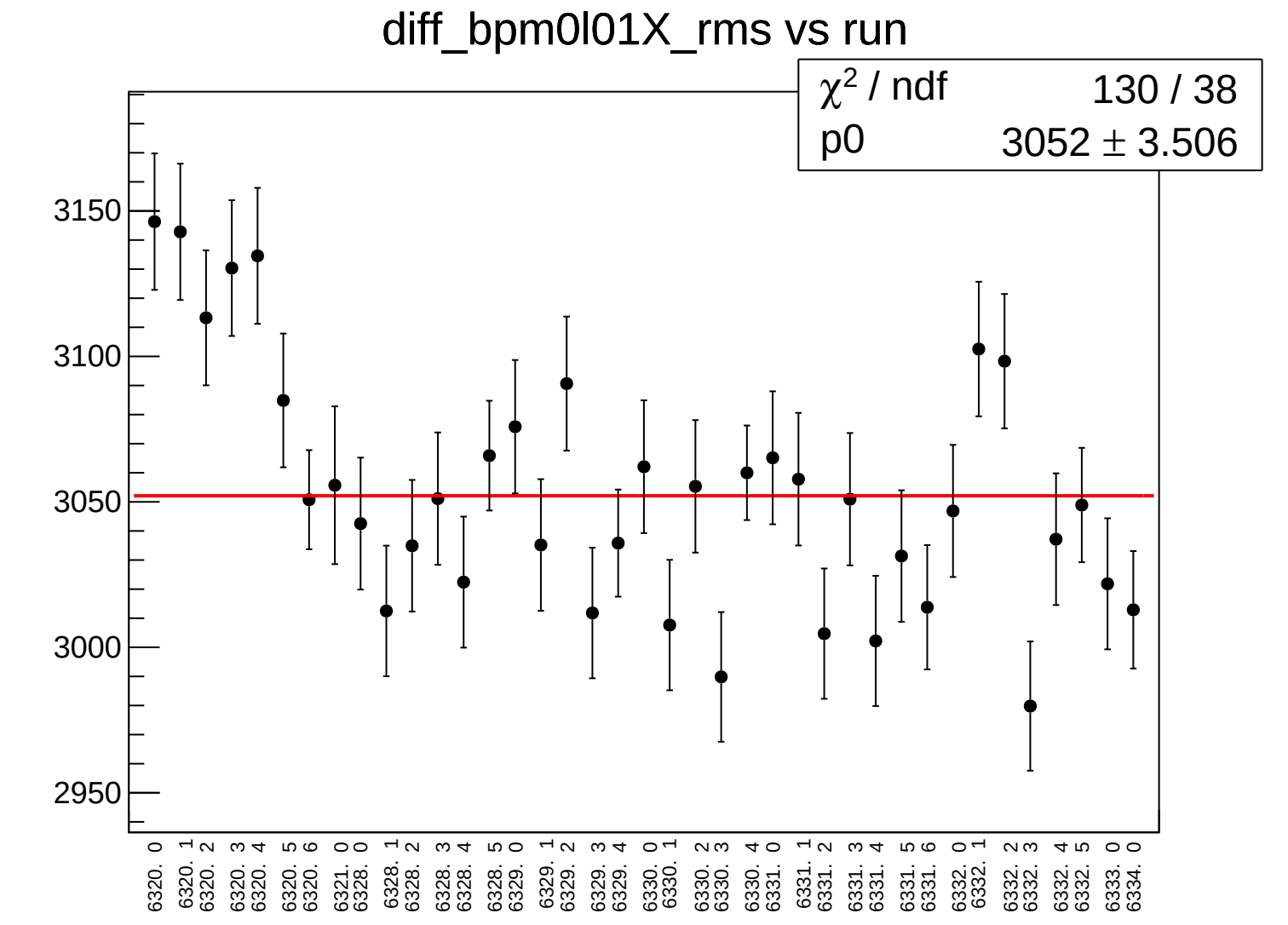

diff_bpm0i01aY_mean vs run
χ² / ndf 43.45 / 38
p0 12.57 ± 2.74
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −124.6
Std Dev 0
1
0
−1
−2
−3

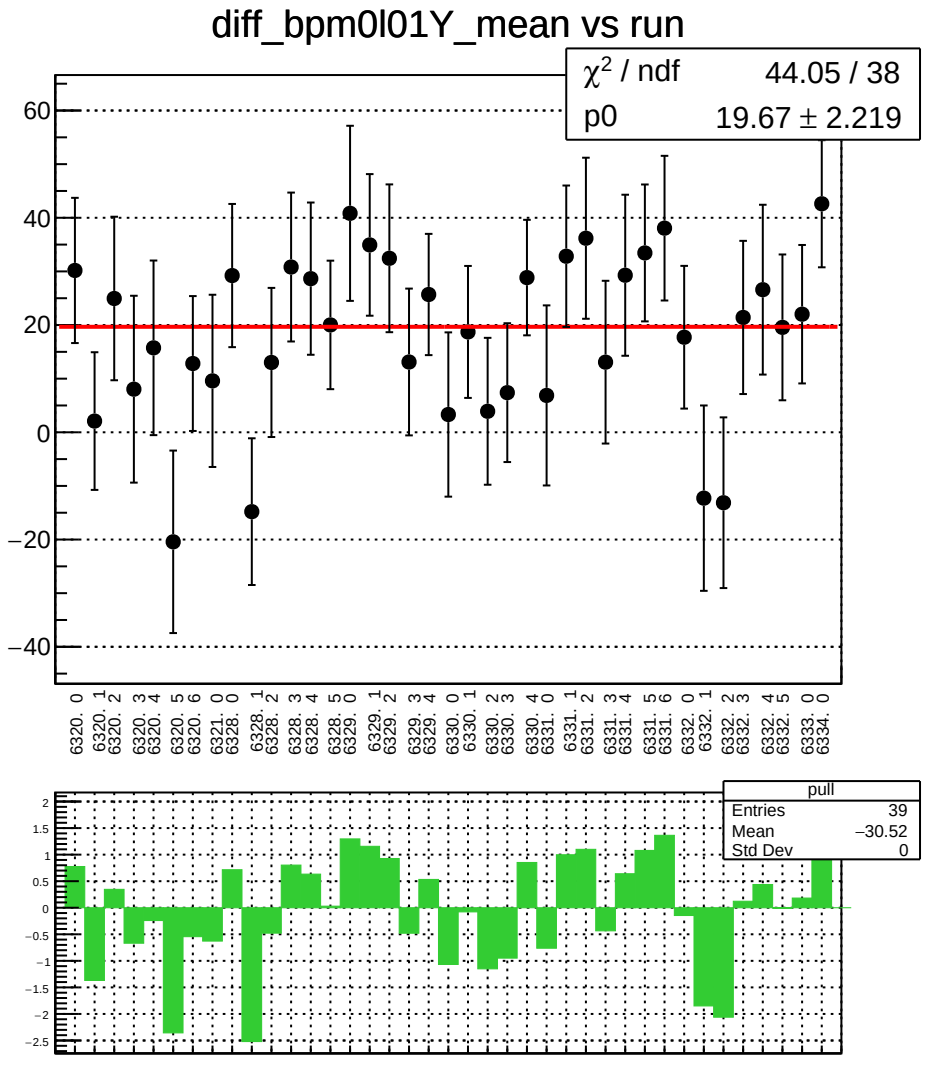

pull1D
Entries 39
Mean 0.01028
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

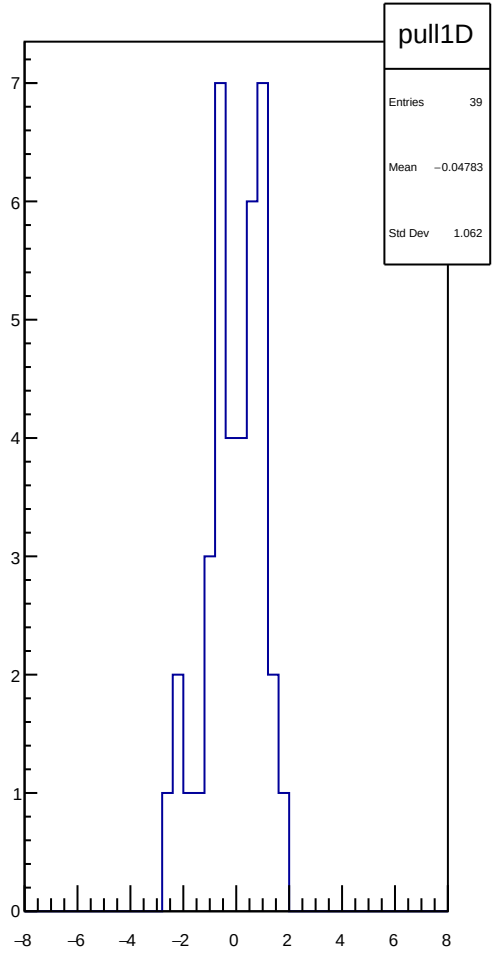

diff_bpm0i01aY_rms vs run
χ² / ndf 202.7 / 38
p0 1687 ± 1.938
1760
1740
1720
1700
1680
1660
1640
1620
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

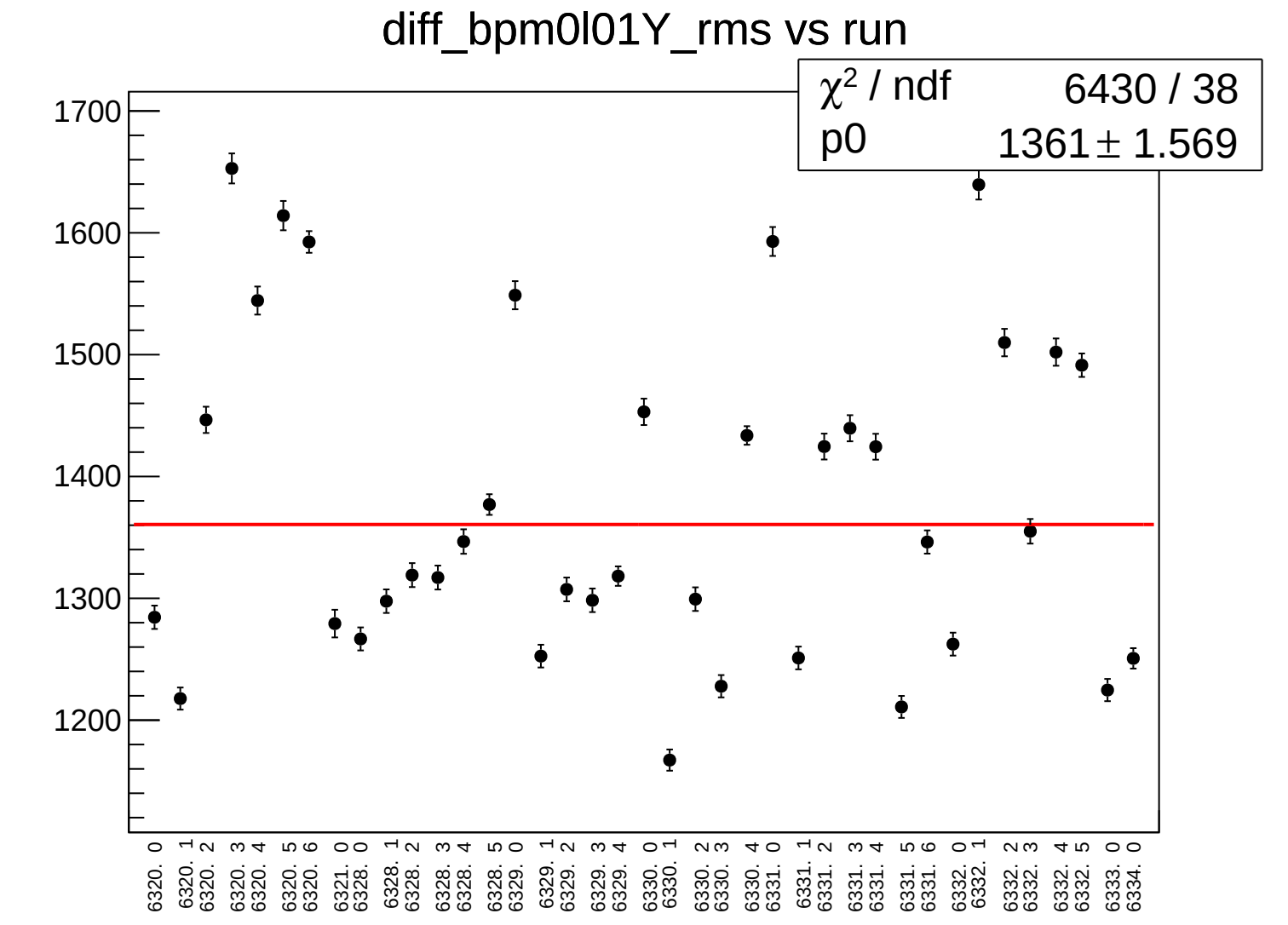

diff_bpm0l01X_mean vs run
χ² / ndf 38.46 / 38
p0 −21.47 ± 4.958
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.64
Std Dev 42.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

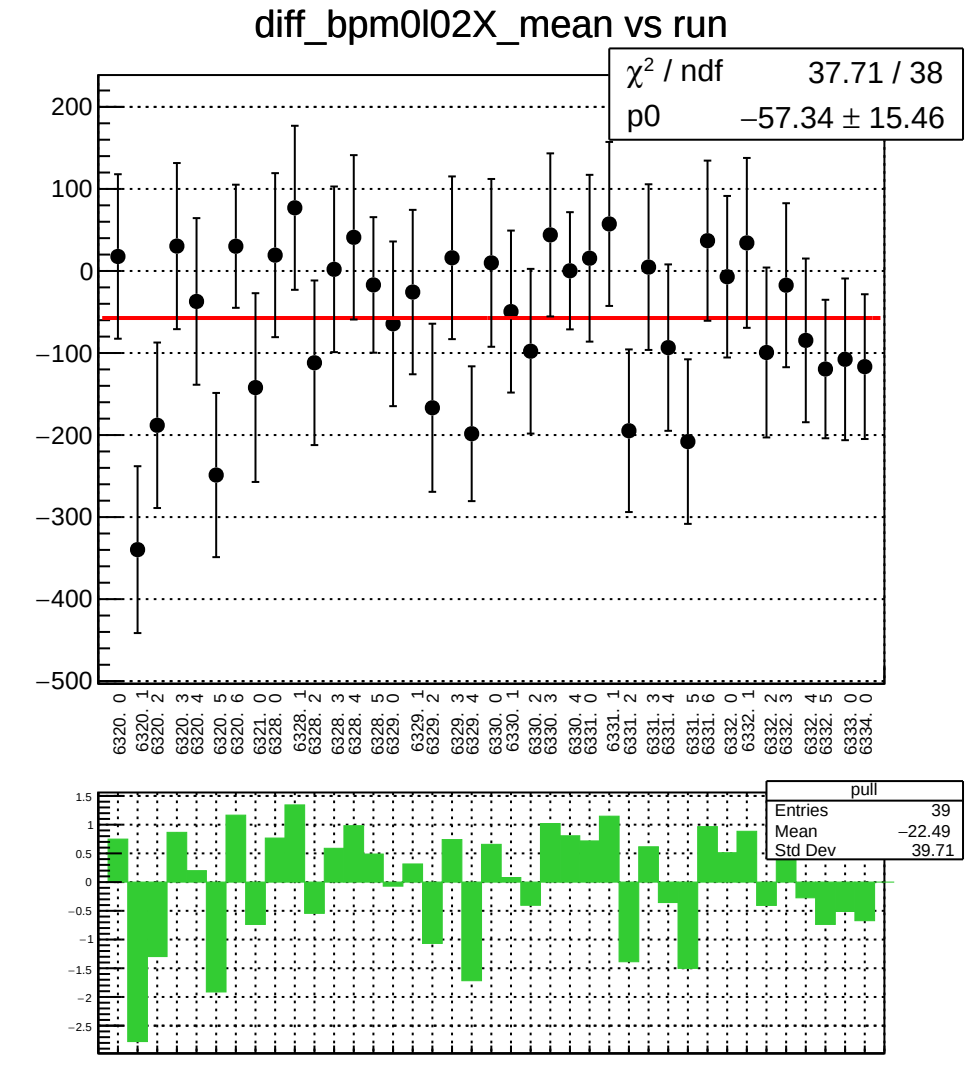

pull1D
Entries 39
Mean −0.01213
Std Dev 0.993
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

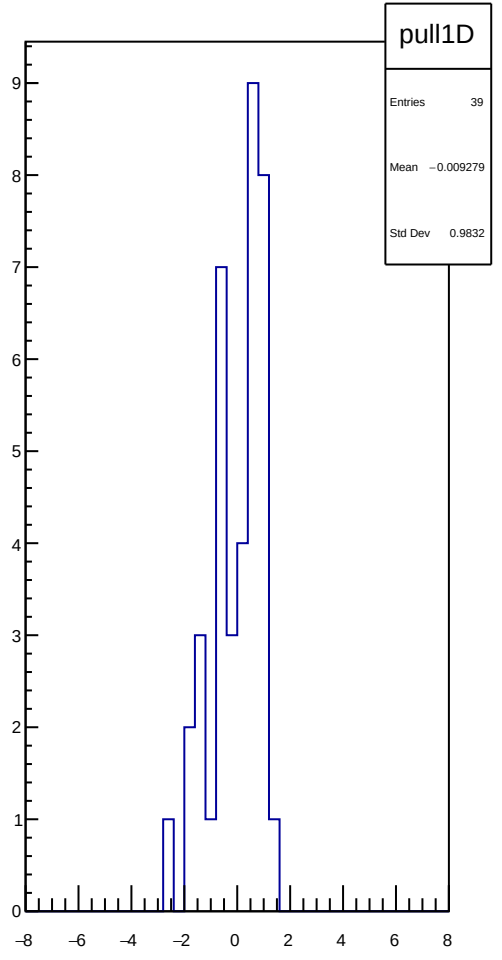

diff_bpm0l01X_rms vs run
χ² / ndf 130 / 38
p0 3052 ± 3.506
3150
3100
3050
3000
2950
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

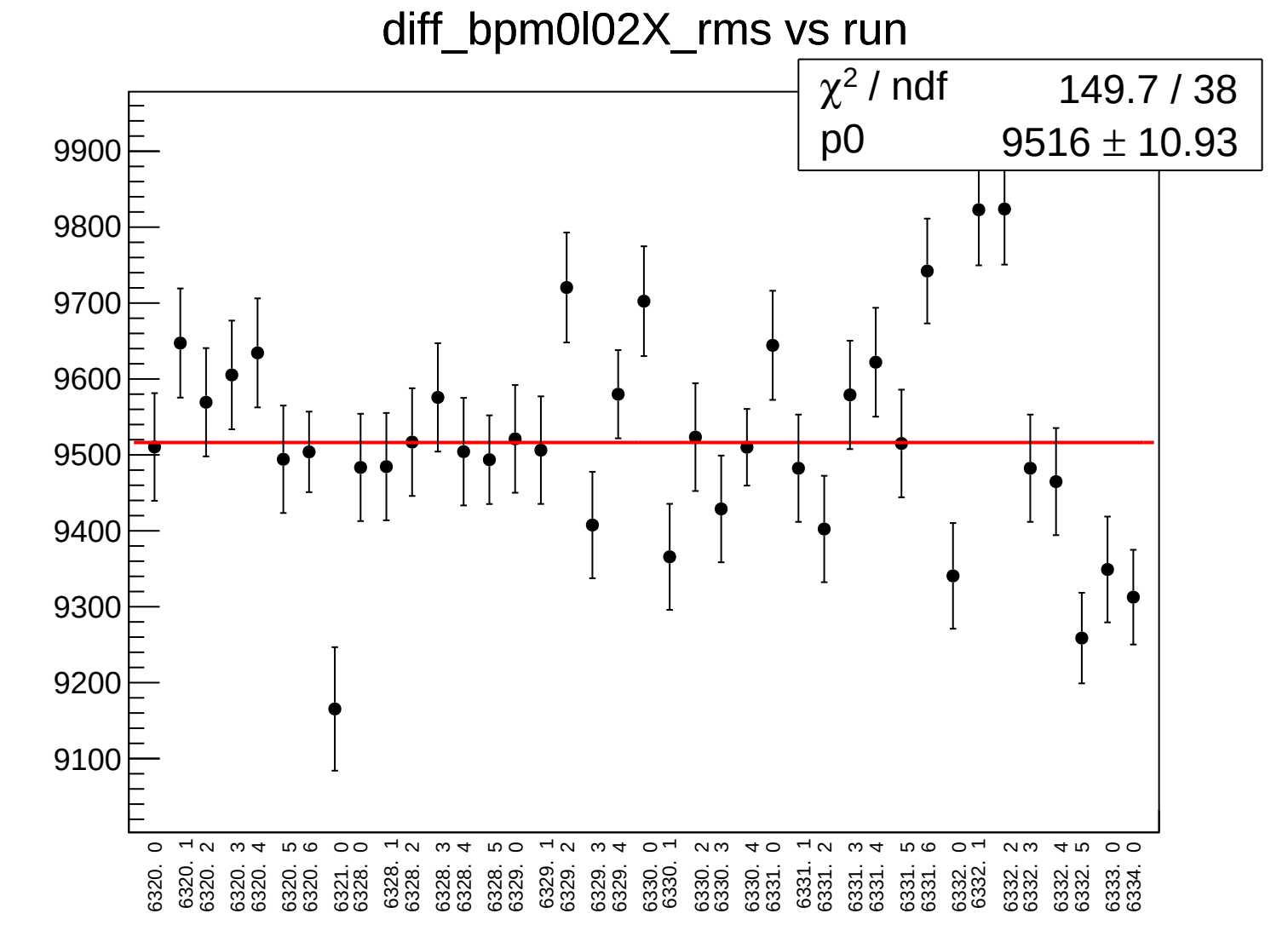

diff_bpm0l01Y_mean vs run
χ² / ndf 44.05 / 38
p0 19.67 ± 2.219
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −30.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

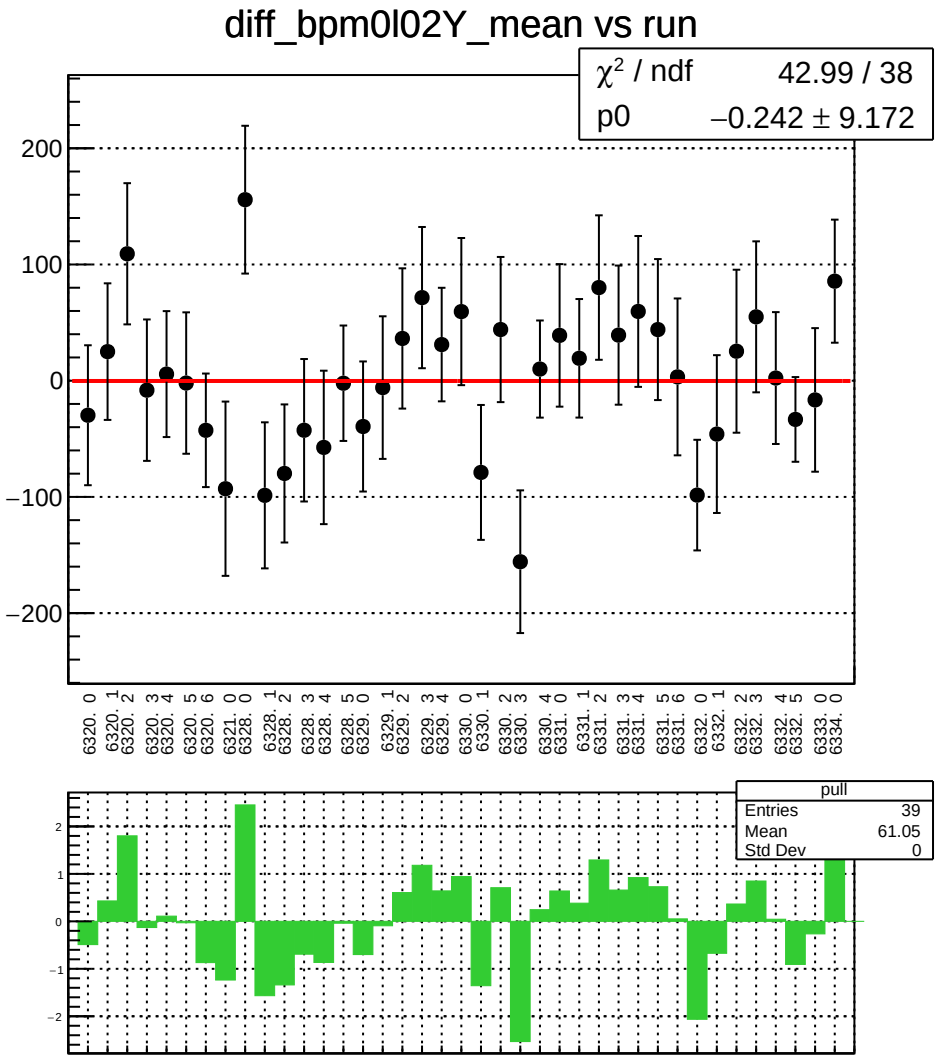

pull1D
Entries 39
Mean −0.04783
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

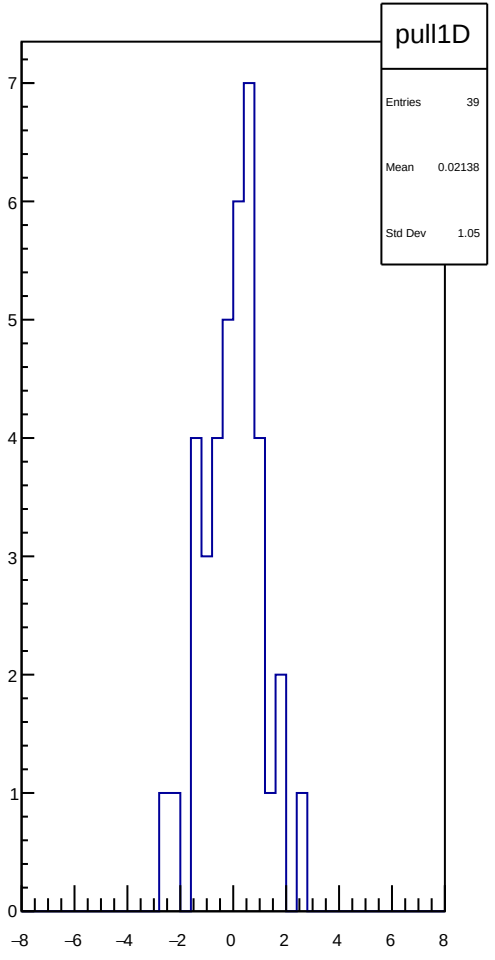

diff_bpm0l01Y_rms vs run
χ² / ndf 6430 / 38
p0 1361 ± 1.569
1700
1600
1500
1400
1300
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

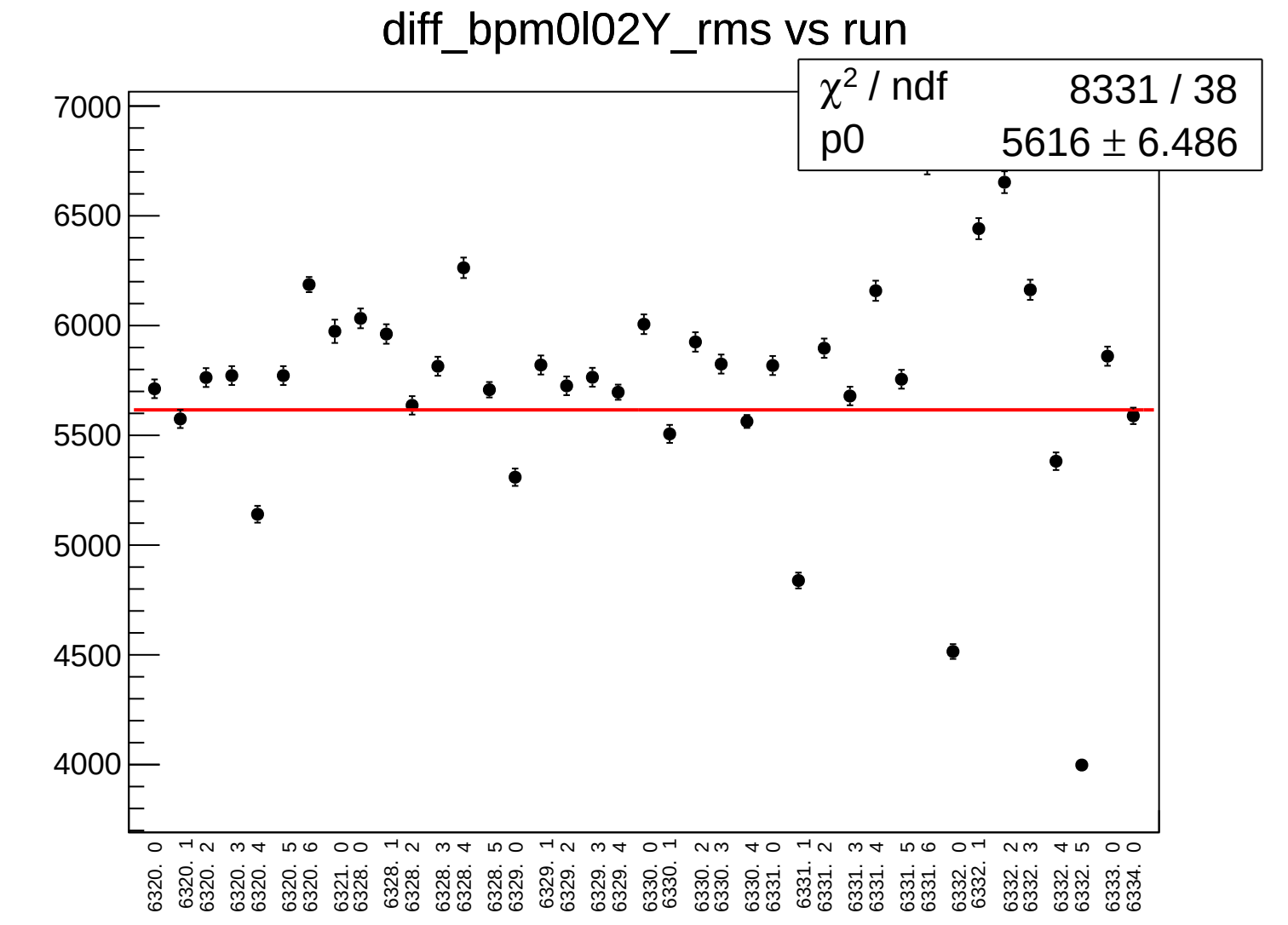

diff_bpm0l02X_mean vs run
χ² / ndf 37.71 / 38
p0 −57.34 ± 15.46
pull
Entries 39
Mean −22.49
Std Dev 39.71

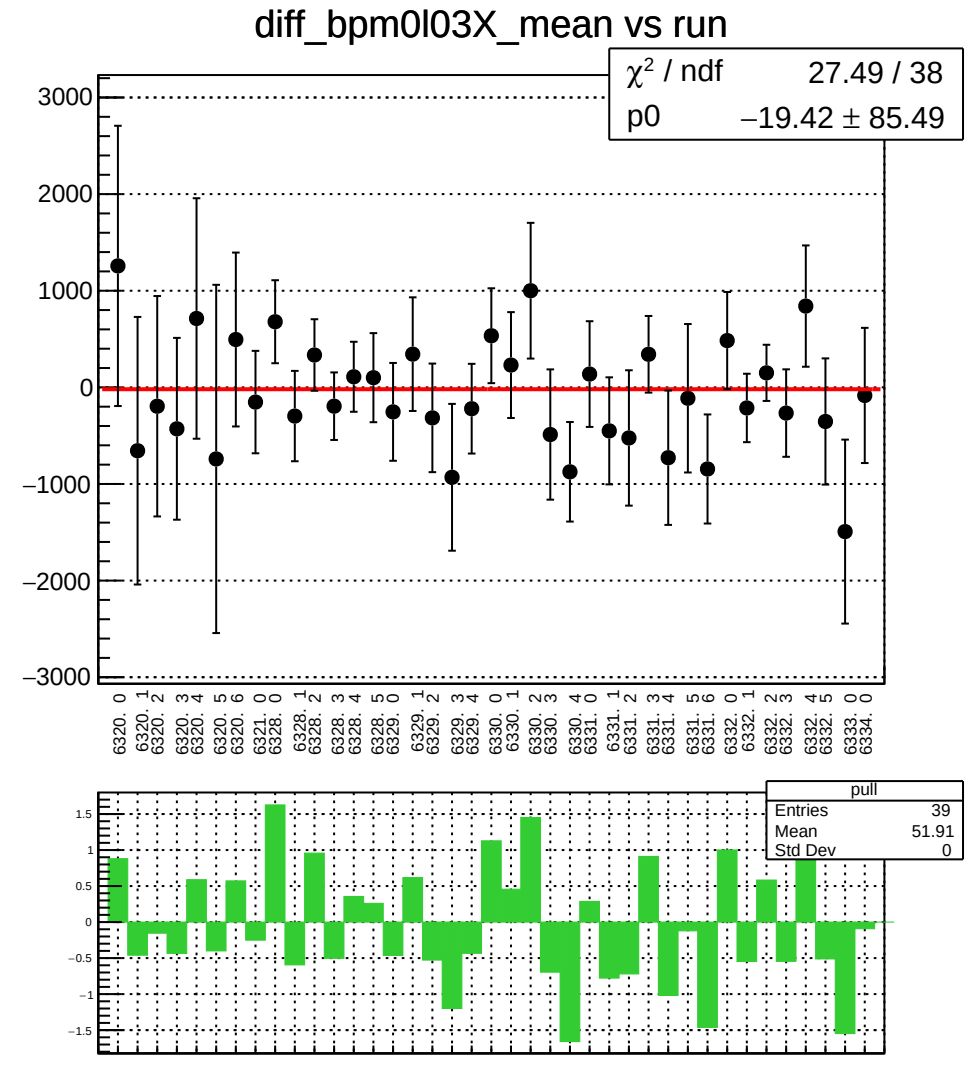

pull1D
Entries 39
Mean −0.009279
Std Dev 0.9832

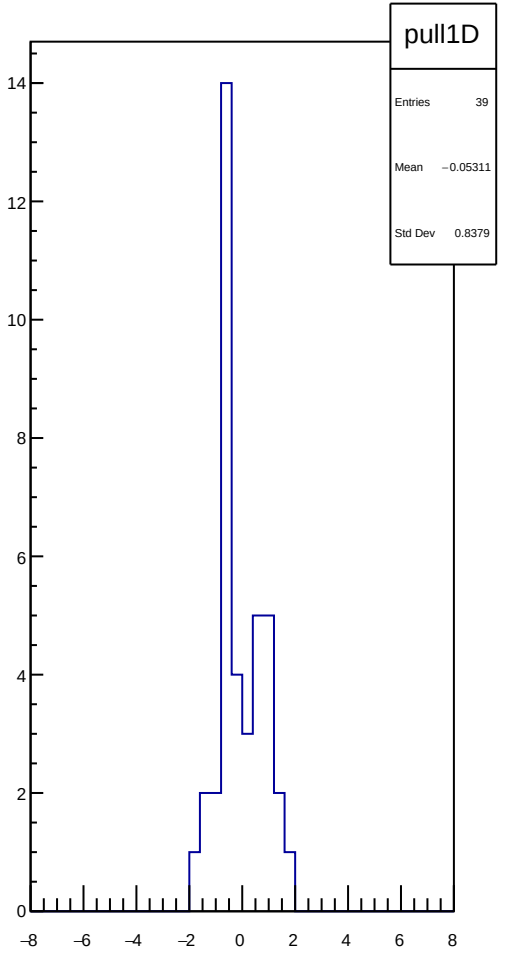

diff_bpm0l02X_rms vs run
χ² / ndf 149.7 / 38
p0 9516 ± 10.93
9900
9800
9700
9600
9500
9400
9300
9200
9100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

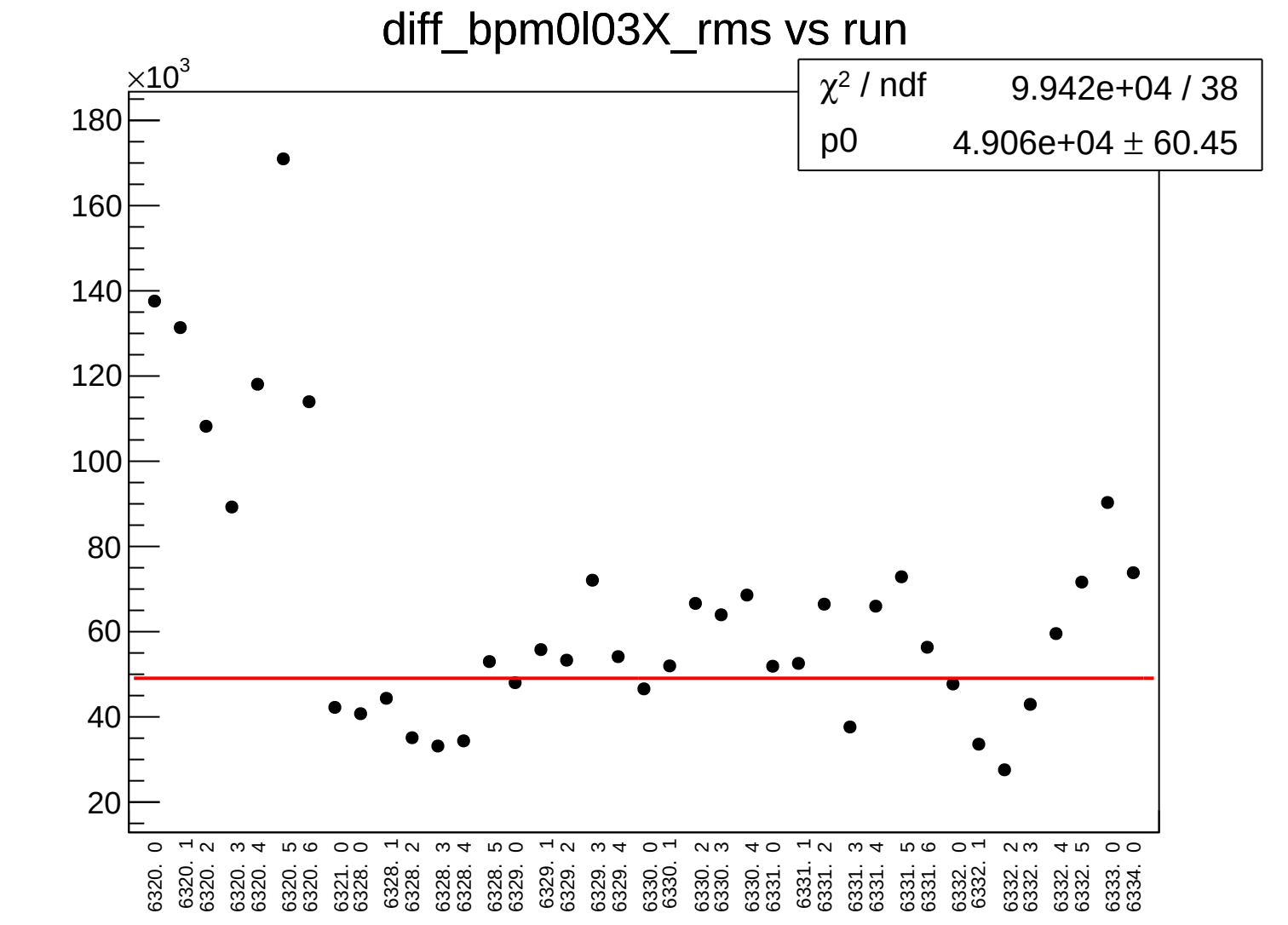

diff_bpm0l02Y_mean vs run
χ² / ndf 42.99 / 38
p0 −0.242 ± 9.172
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 61.05
Std Dev 0
2
1
0
−1
−2

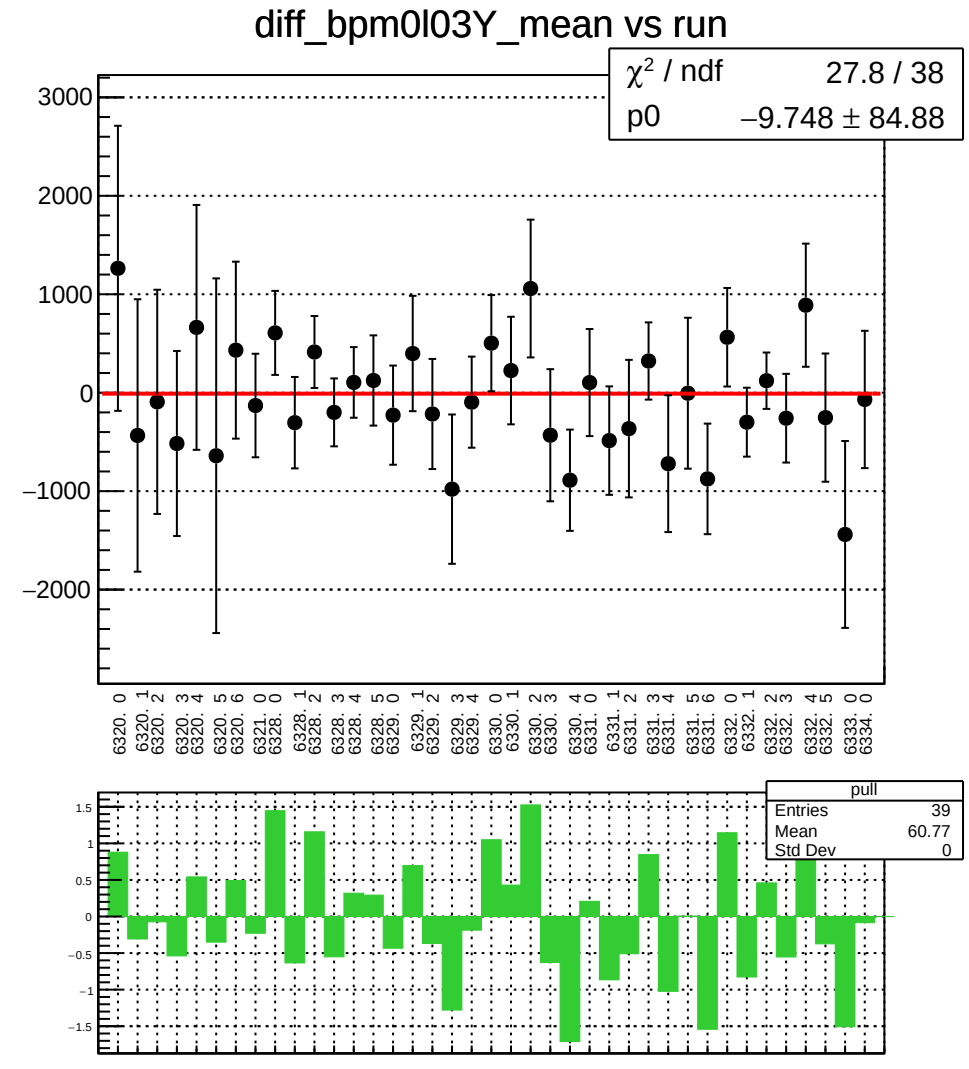

pull1D
Entries 39
Mean 0.02138
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

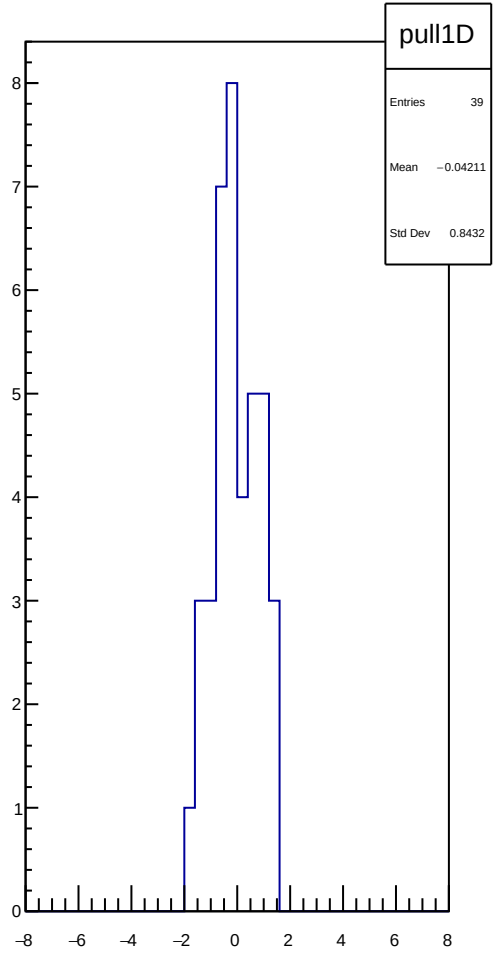

diff_bpm0l02Y_rms vs run
χ² / ndf 8331 / 38
p0 5616 ± 6.486
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

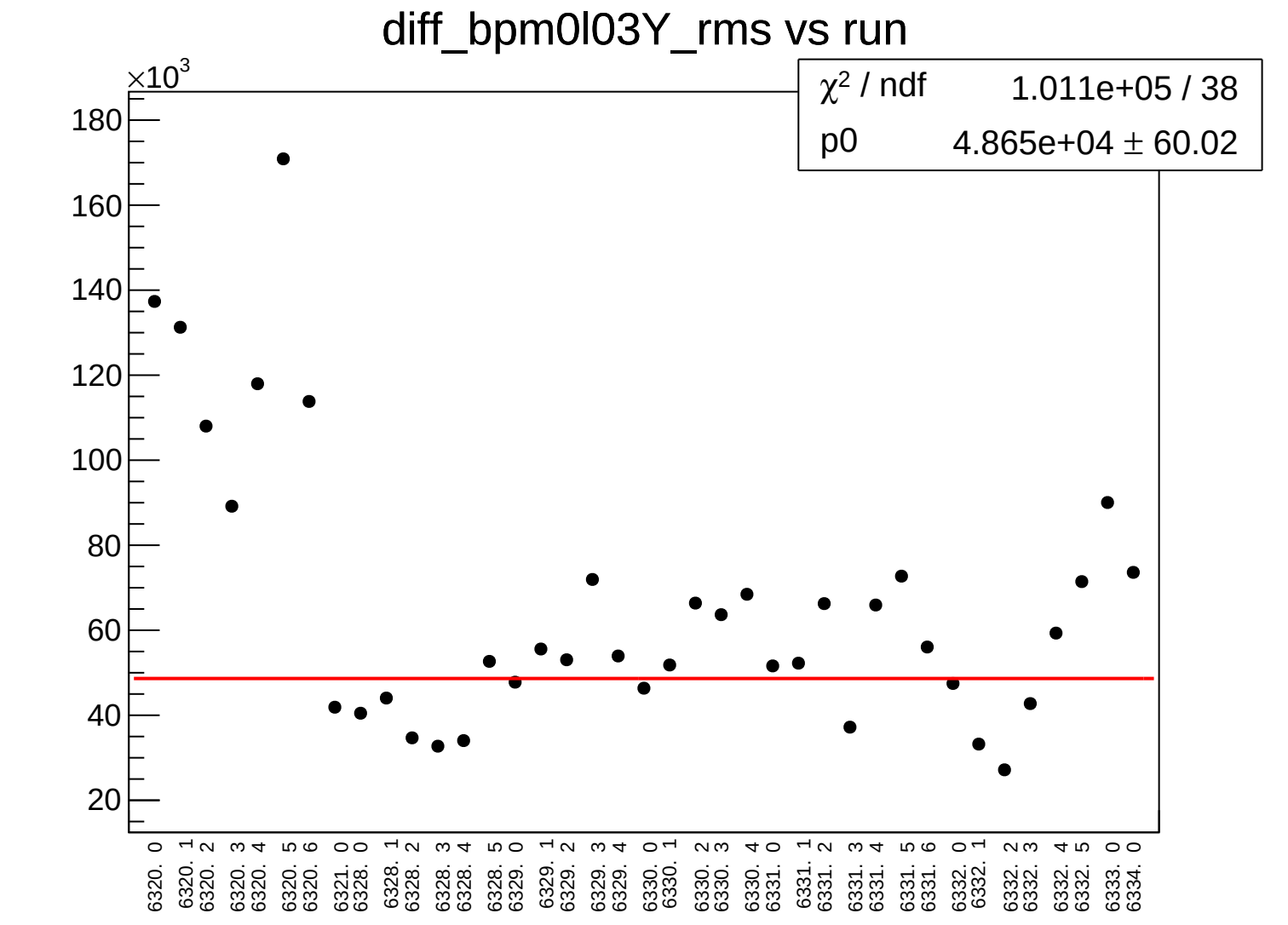

diff_bpm0l03X_mean vs run
χ² / ndf 27.49 / 38
p0 −19.42 ± 85.49
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

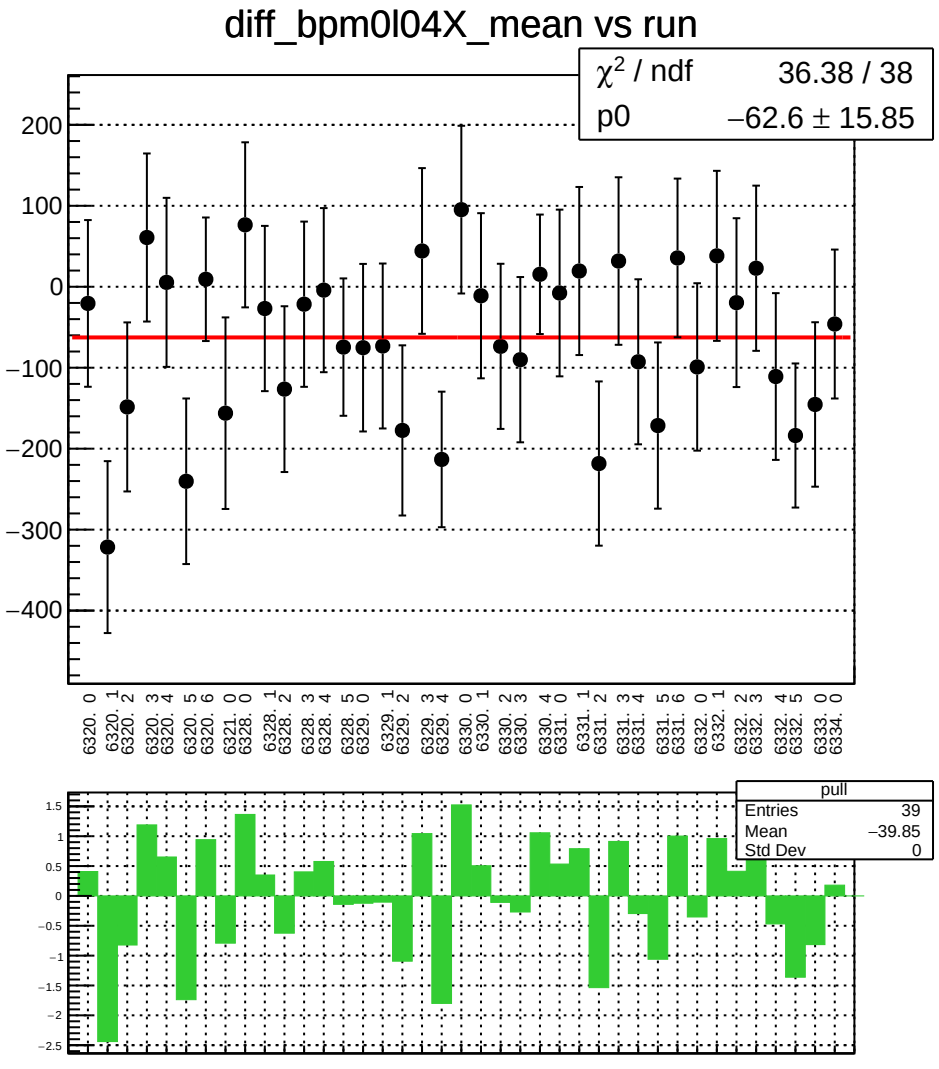

pull1D
Entries 39
Mean −0.05311
Std Dev 0.8379
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

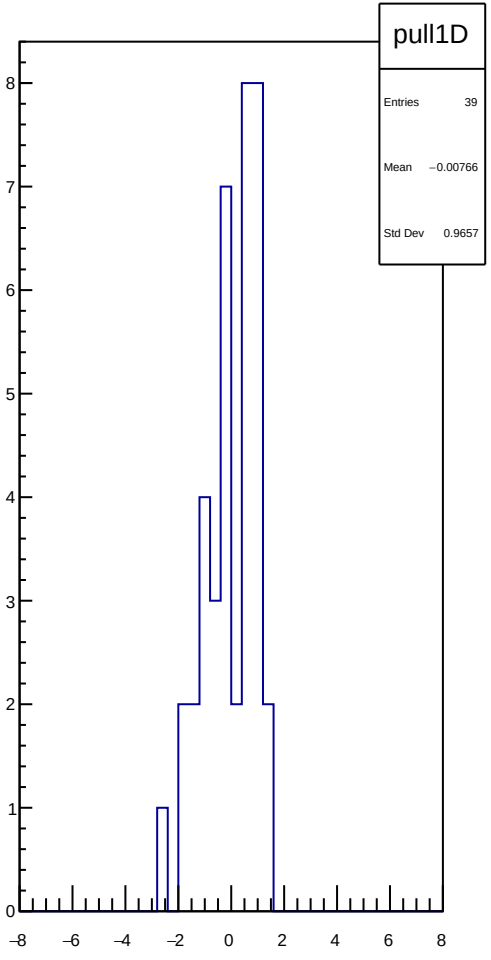

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 9.942e+04 / 38
p0 4.906e+04 ± 60.45
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

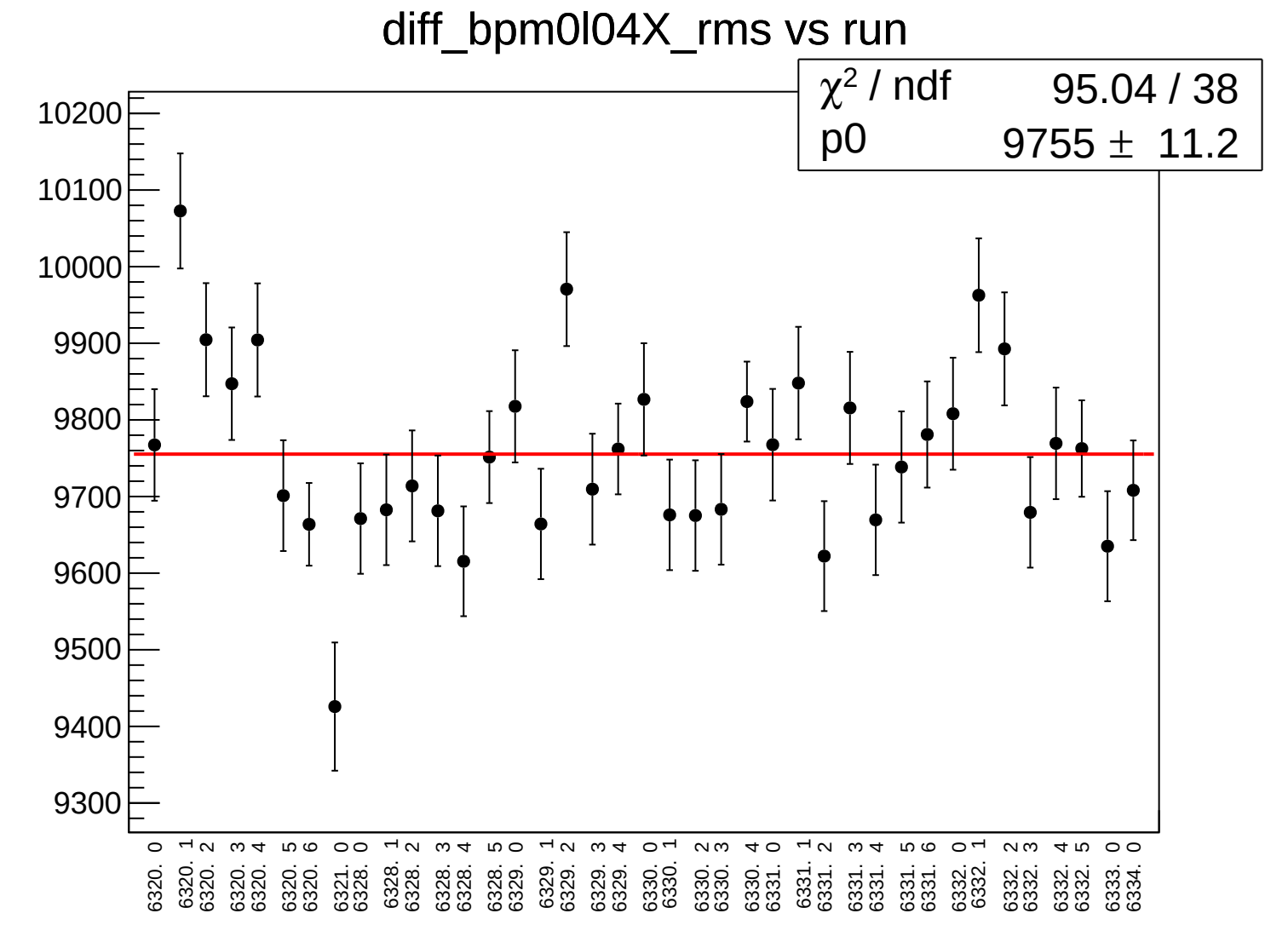

diff_bpm0l03Y_mean vs run
χ² / ndf 27.8 / 38
p0 −9.748 ± 84.88
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 60.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

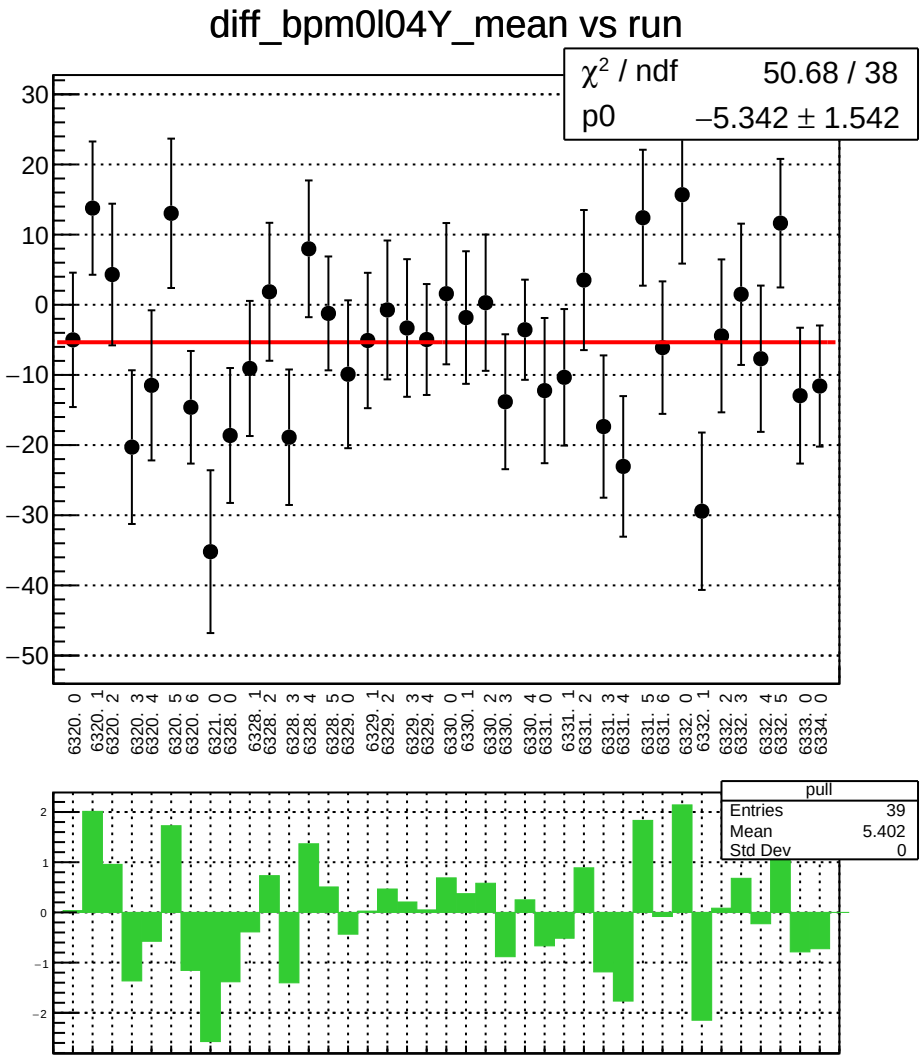

pull1D
Entries 39
Mean −0.04211
Std Dev 0.8432
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

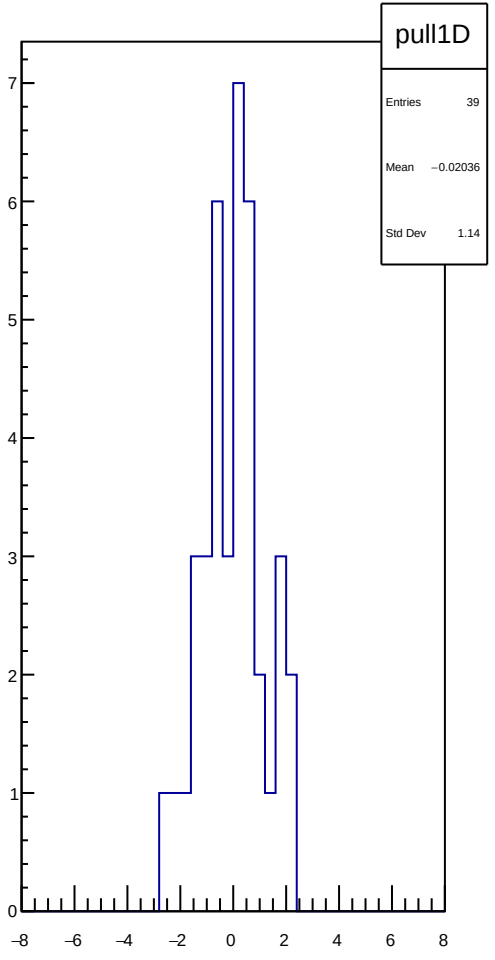

diff_bpm0l03Y_rms vs run
×10^3
χ² / ndf 1.011e+05 / 38
p0 4.865e+04 ± 60.02
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

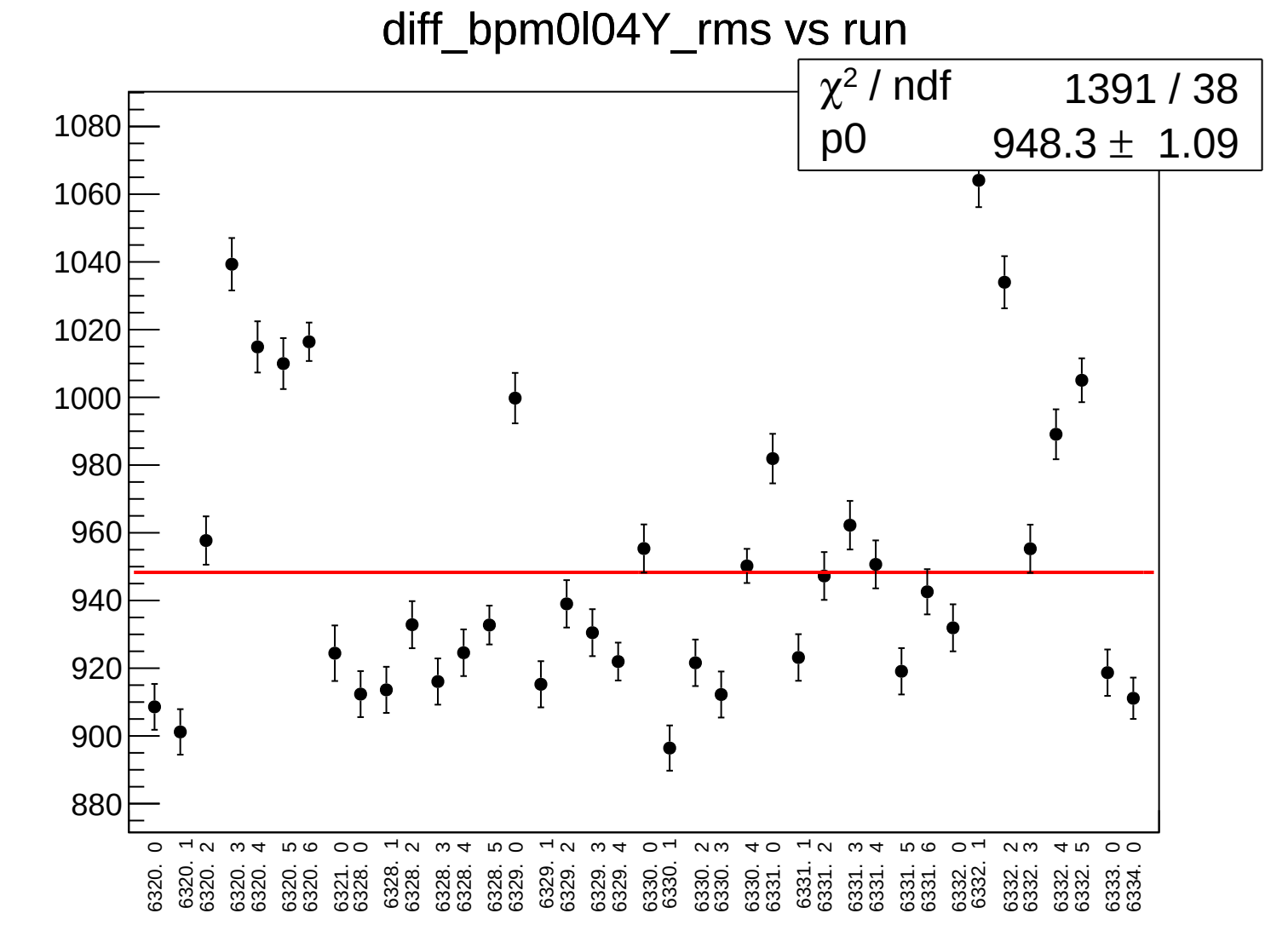

diff_bpm0l04X_mean vs run
χ² / ndf 36.38 / 38
p0 −62.6 ± 15.85
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

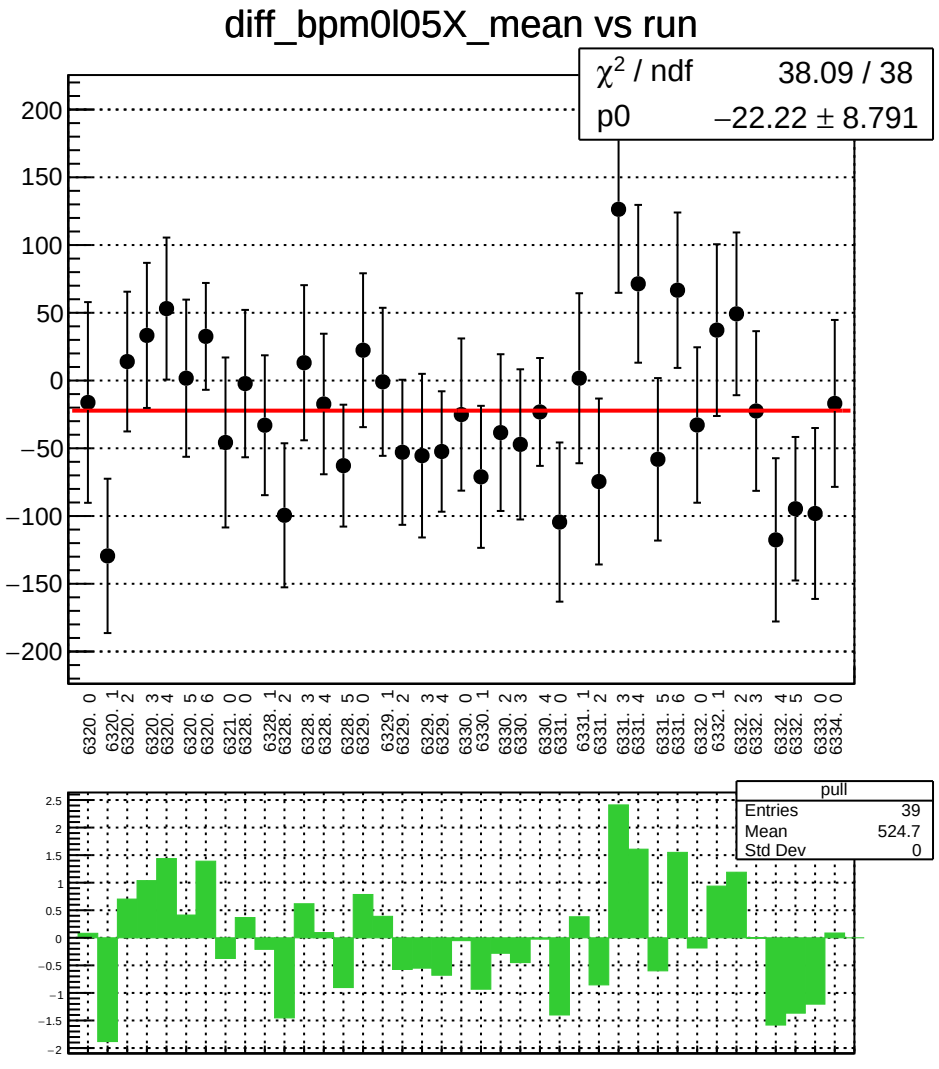

pull1D
Entries 39
Mean −0.00766
Std Dev 0.9657
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

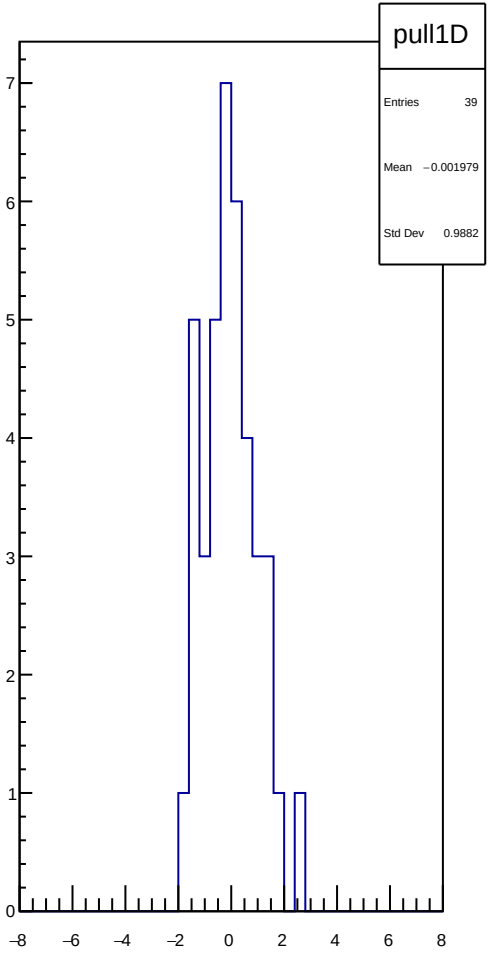

diff_bpm0l04X_rms vs run
χ² / ndf 95.04 / 38
p0 9755 ± 11.2
10200
10100
10000
9900
9800
9700
9600
9500
9400
9300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

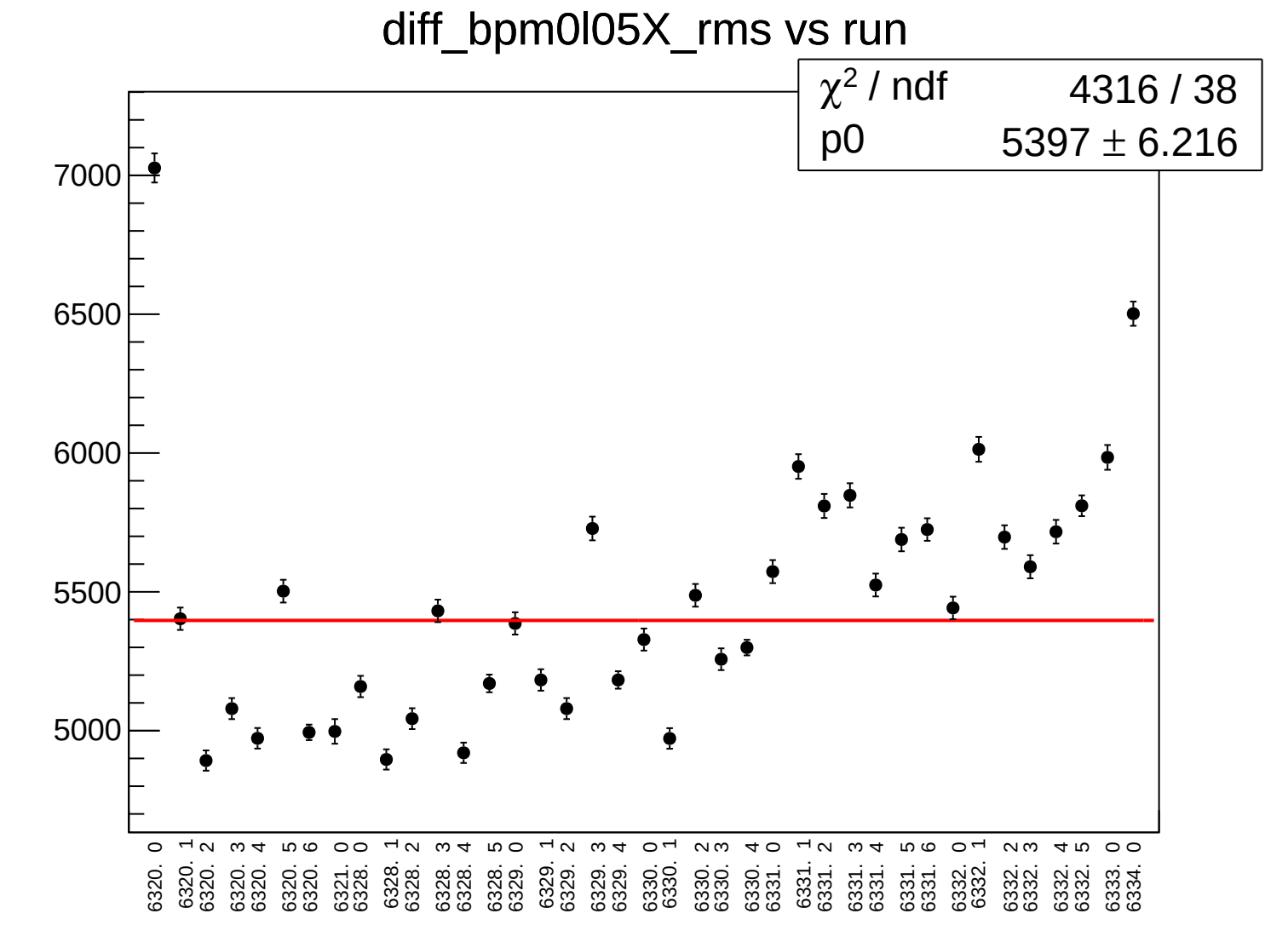

diff_bpm0l04Y_mean vs run
χ² / ndf 50.68 / 38
p0 −5.342 ± 1.542
pull
Entries 39
Mean 5.402
Std Dev 0

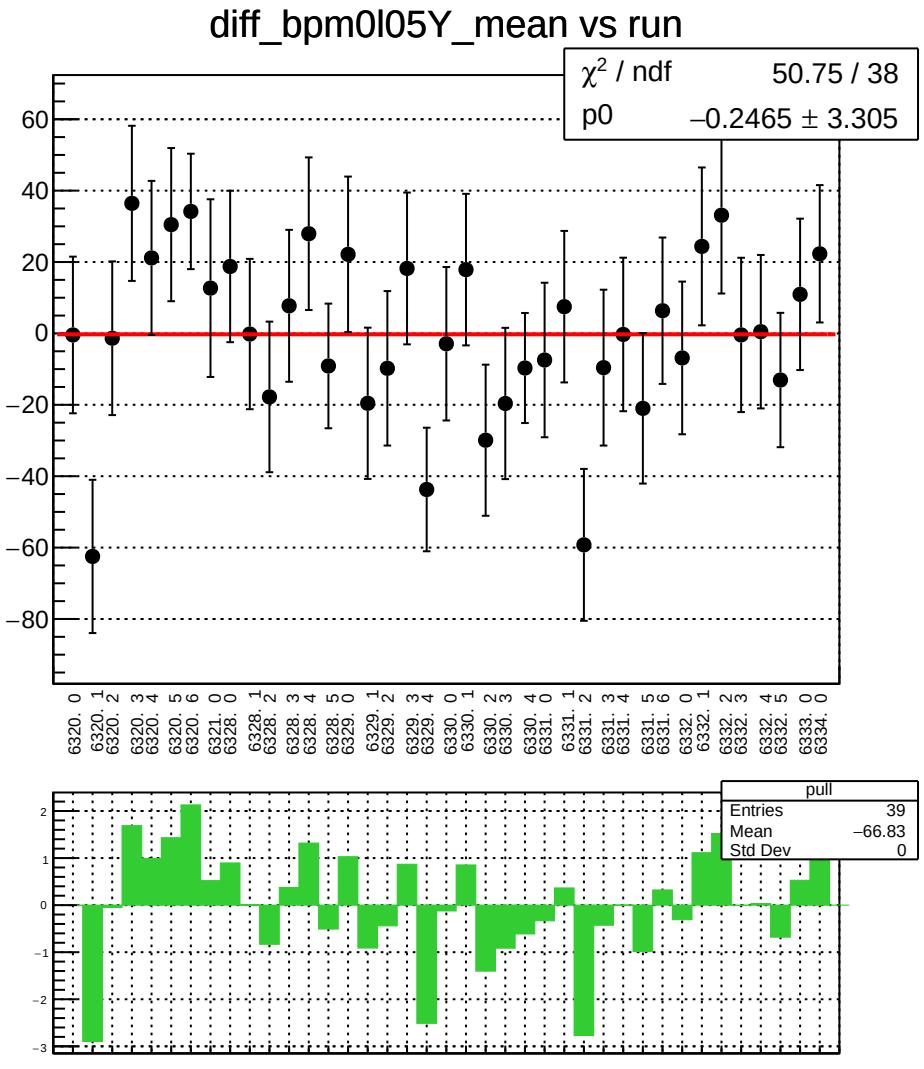

pull1D
Entries 39
Mean −0.02036
Std Dev 1.14

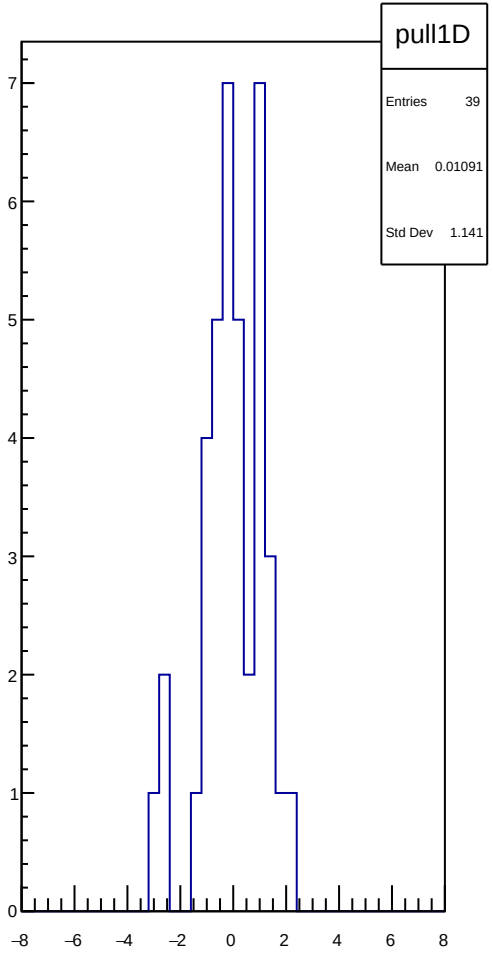

diff_bpm0l04Y_rms vs run
χ² / ndf 1391 / 38
p0 948.3 ± 1.09
1080
1060
1040
1020
1000
980
960
940
920
900
880
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

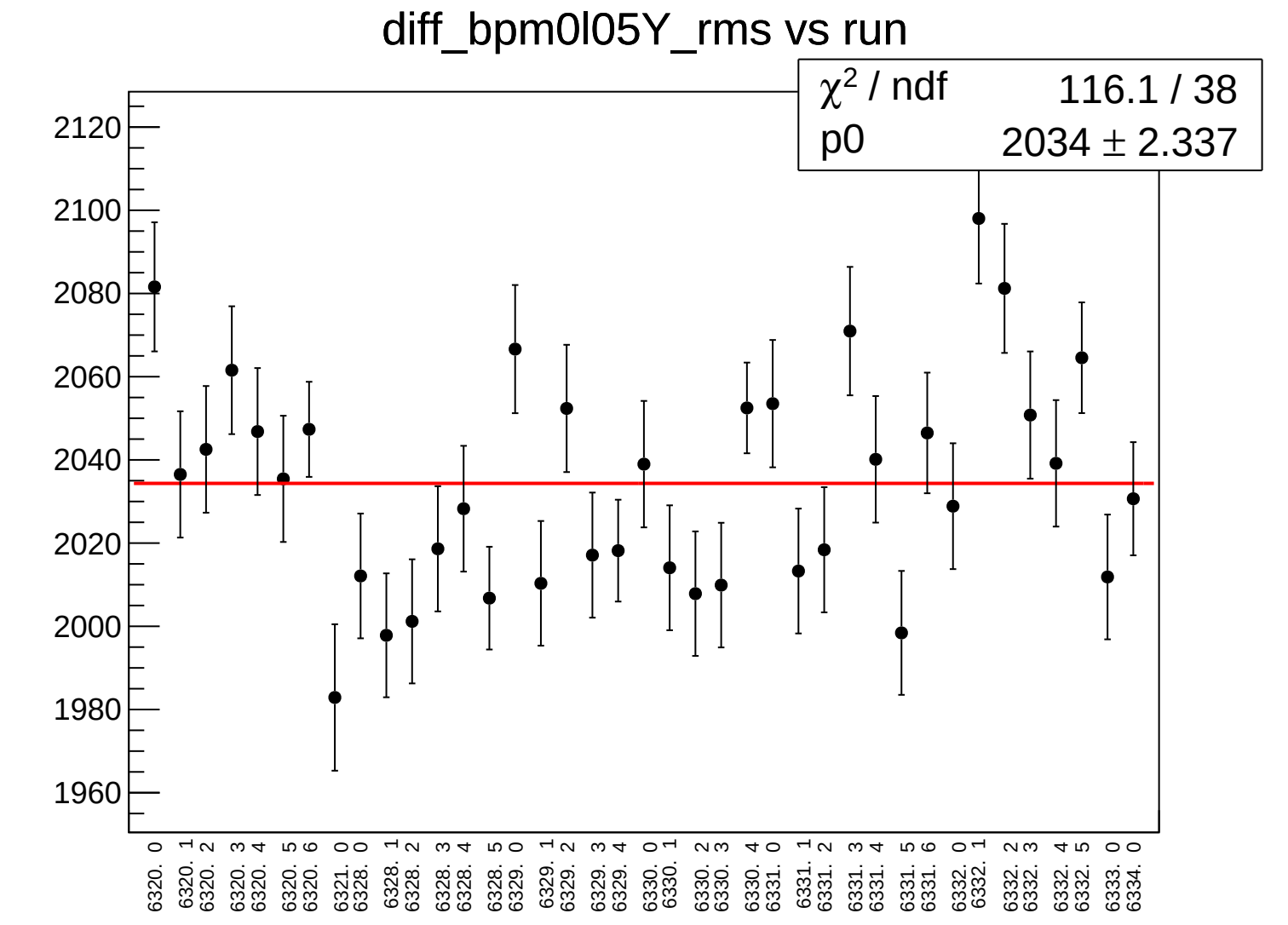

diff_bpm0l05X_mean vs run
χ² / ndf 38.09 / 38
p0 −22.22 ± 8.791
pull
Entries 39
Mean 524.7
Std Dev 0

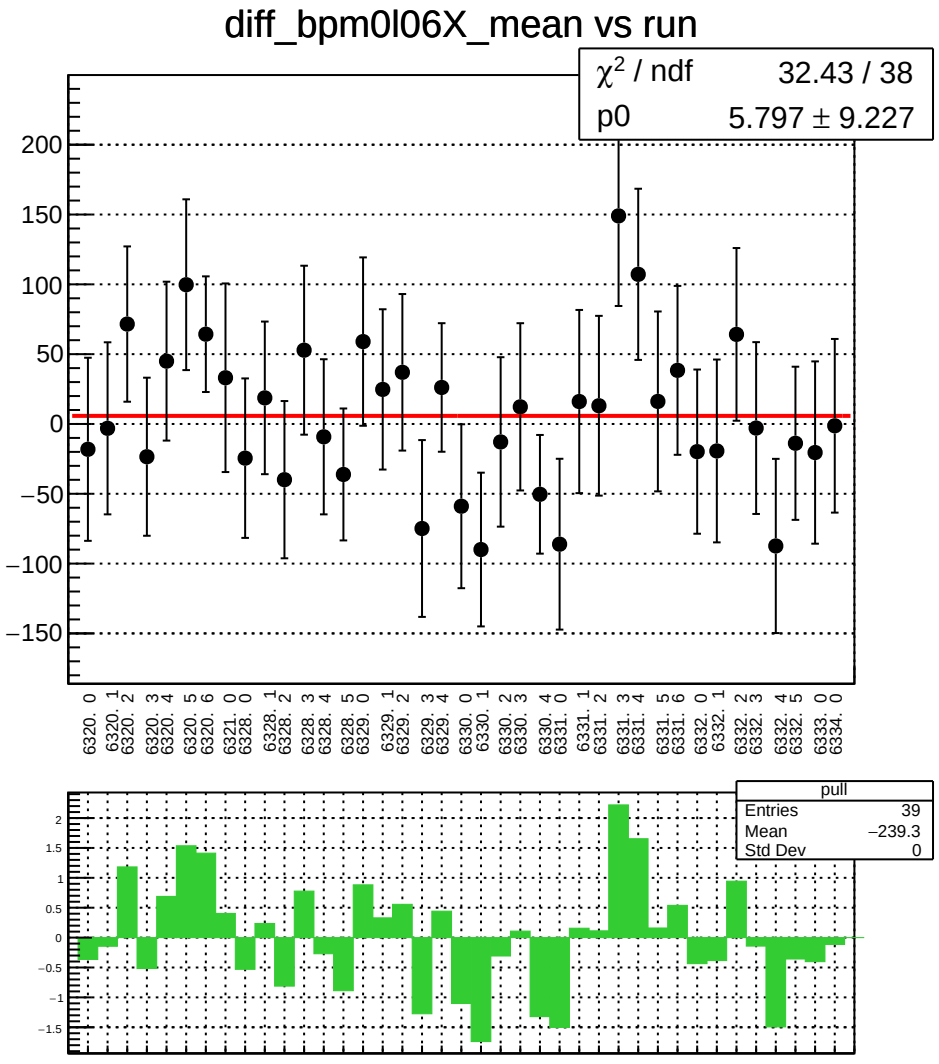

pull1D
Entries 39
Mean −0.001979
Std Dev 0.9882

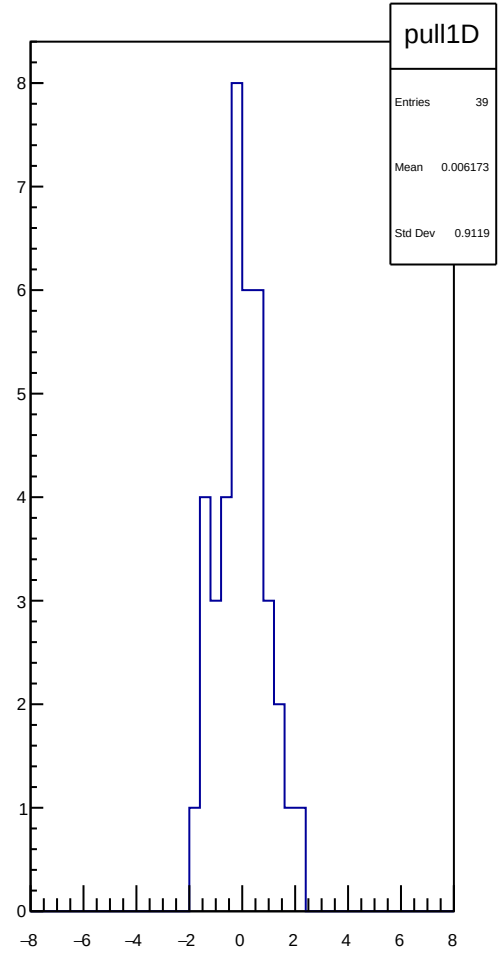

diff_bpm0l05X_rms vs run
χ² / ndf 4316 / 38
p0 5397 ± 6.216
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

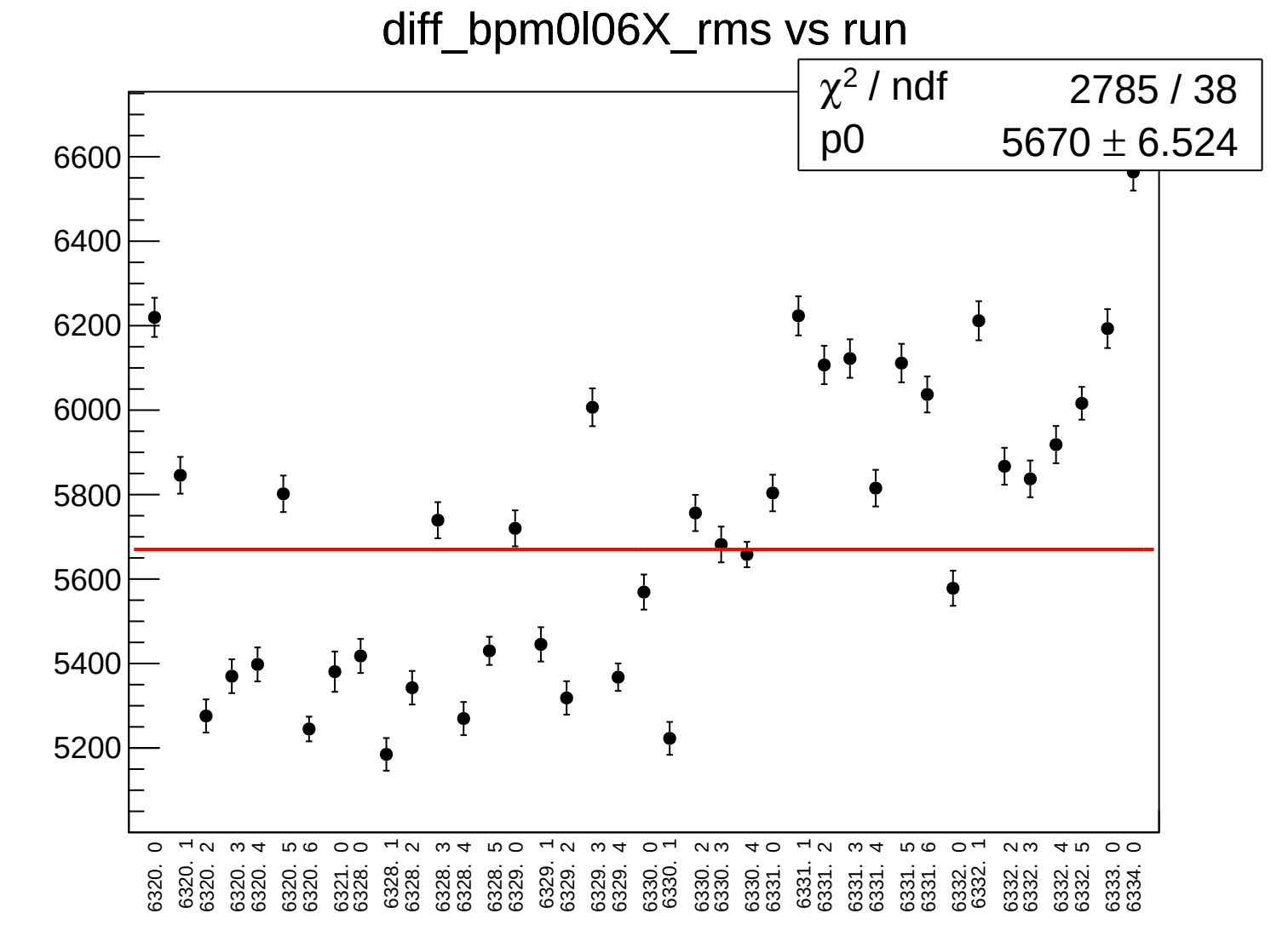

diff_bpm0l05Y_mean vs run
χ² / ndf 50.75 / 38
p0 −0.2465 ± 3.305
pull
Entries 39
Mean −66.83
Std Dev 0

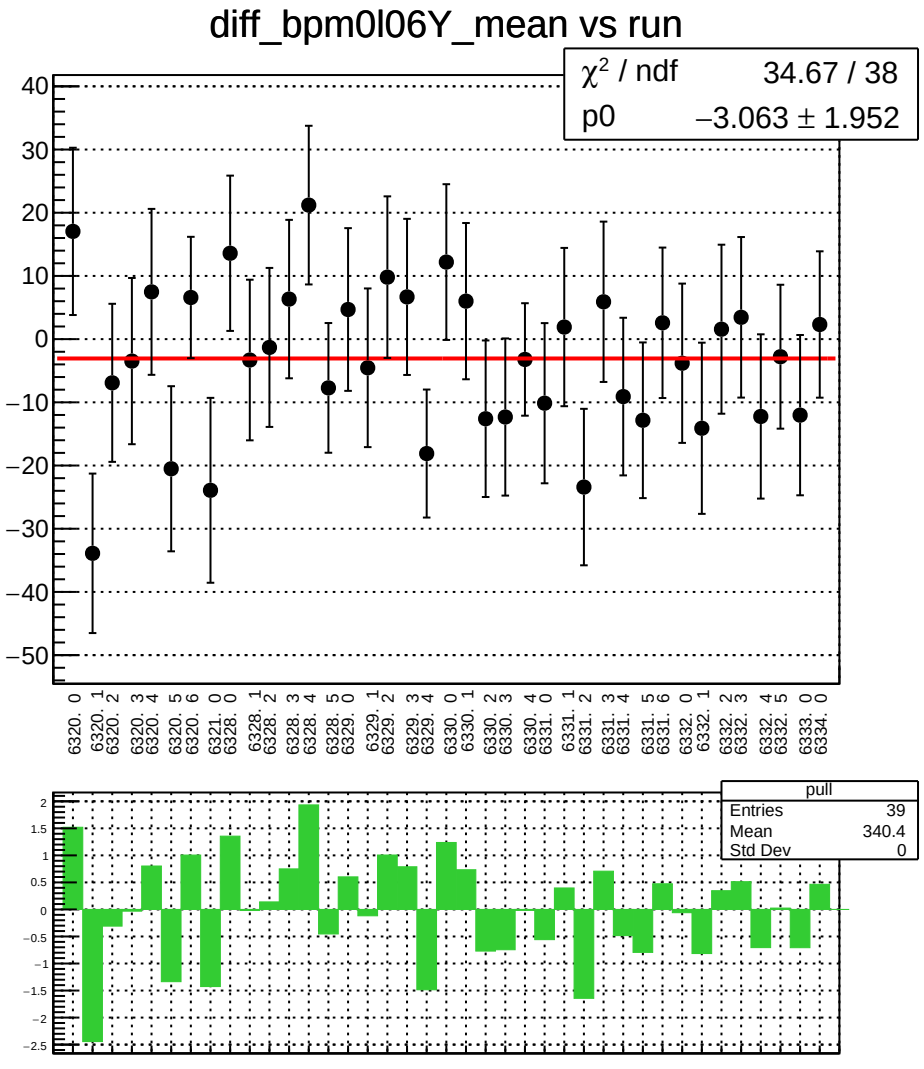

pull1D
Entries 39
Mean 0.01091
Std Dev 1.141

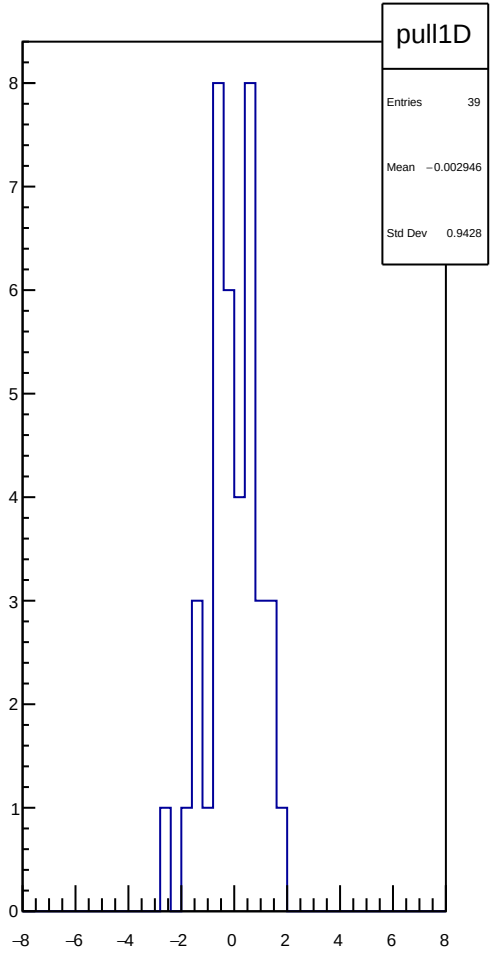

diff_bpm0l05Y_rms vs run
χ² / ndf 116.1 / 38
p0 2034 ± 2.337
2120
2100
2080
2060
2040
2020
2000
1980
1960
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

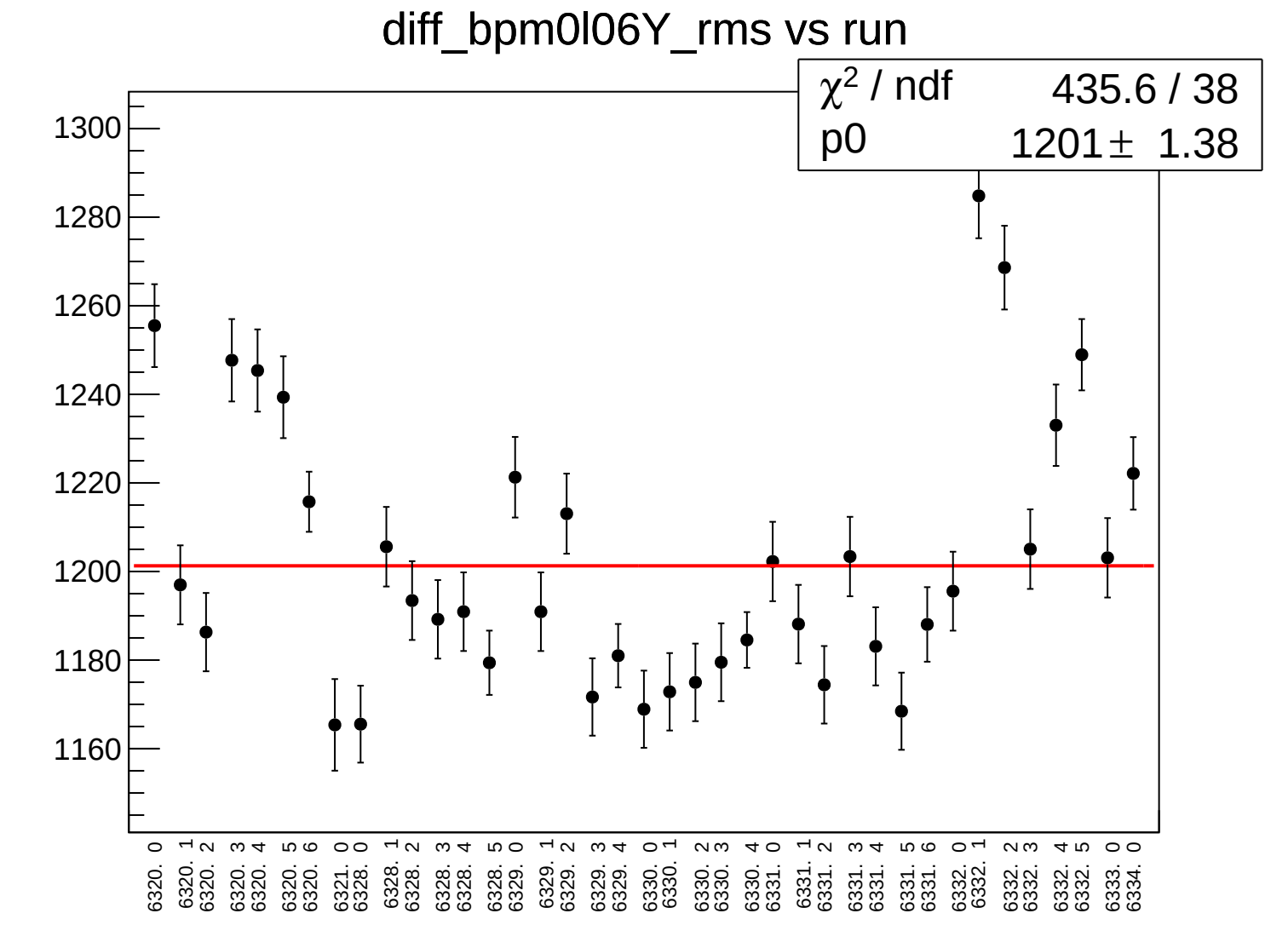

diff_bpm0l06X_mean vs run
χ² / ndf 32.43 / 38
p0 5.797 ± 9.227
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −239.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

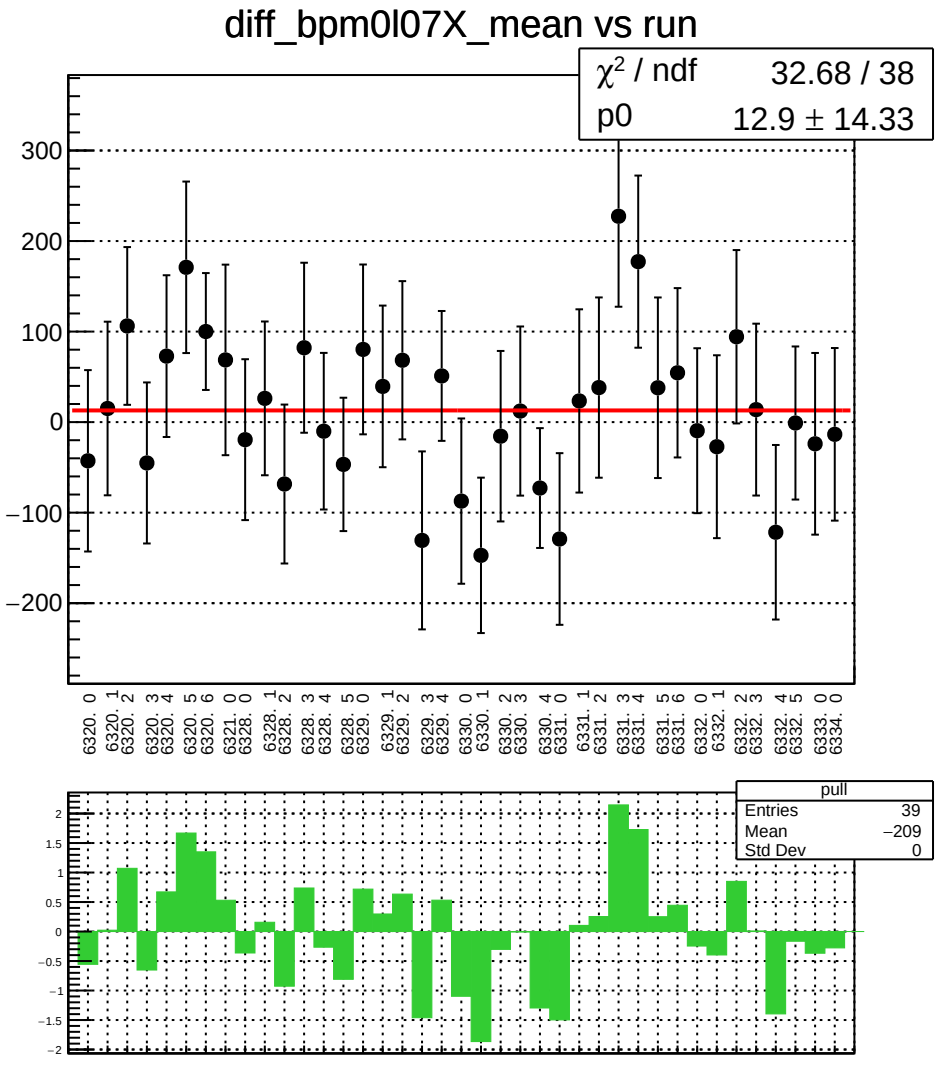

pull1D
Entries 39
Mean 0.006173
Std Dev 0.9119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

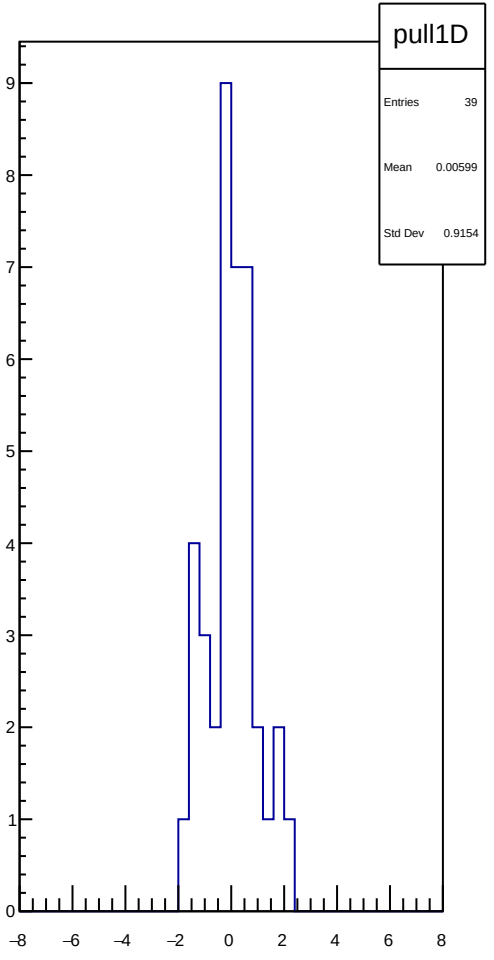

diff_bpm0l06X_rms vs run
χ² / ndf 2785 / 38
p0 5670 ± 6.524
6600
6400
6200
6000
5800
5600
5400
5200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

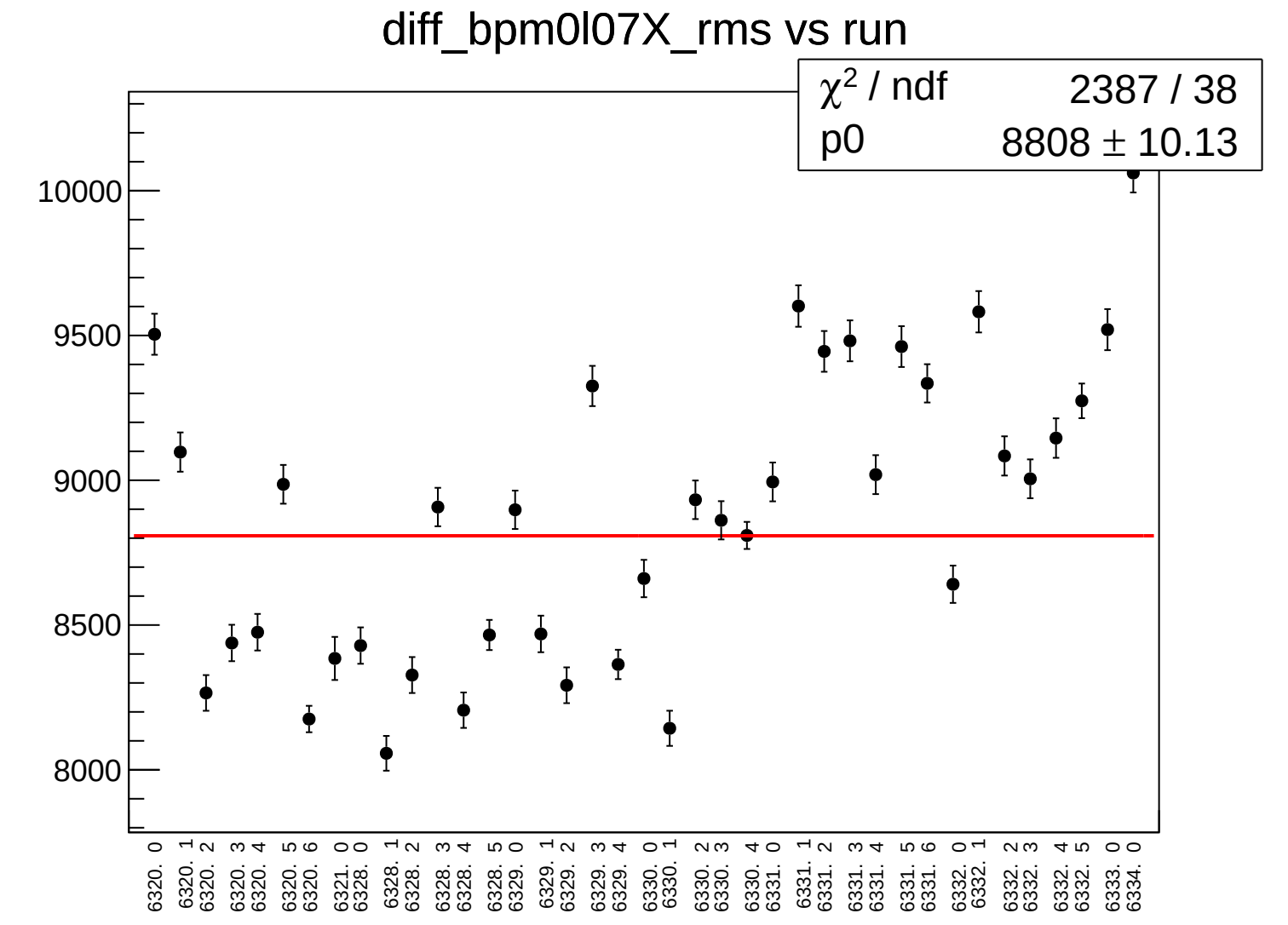

diff_bpm0l06Y_mean vs run
χ² / ndf 34.67 / 38
p0 −3.063 ± 1.952
pull
Entries 39
Mean 340.4
Std Dev 0

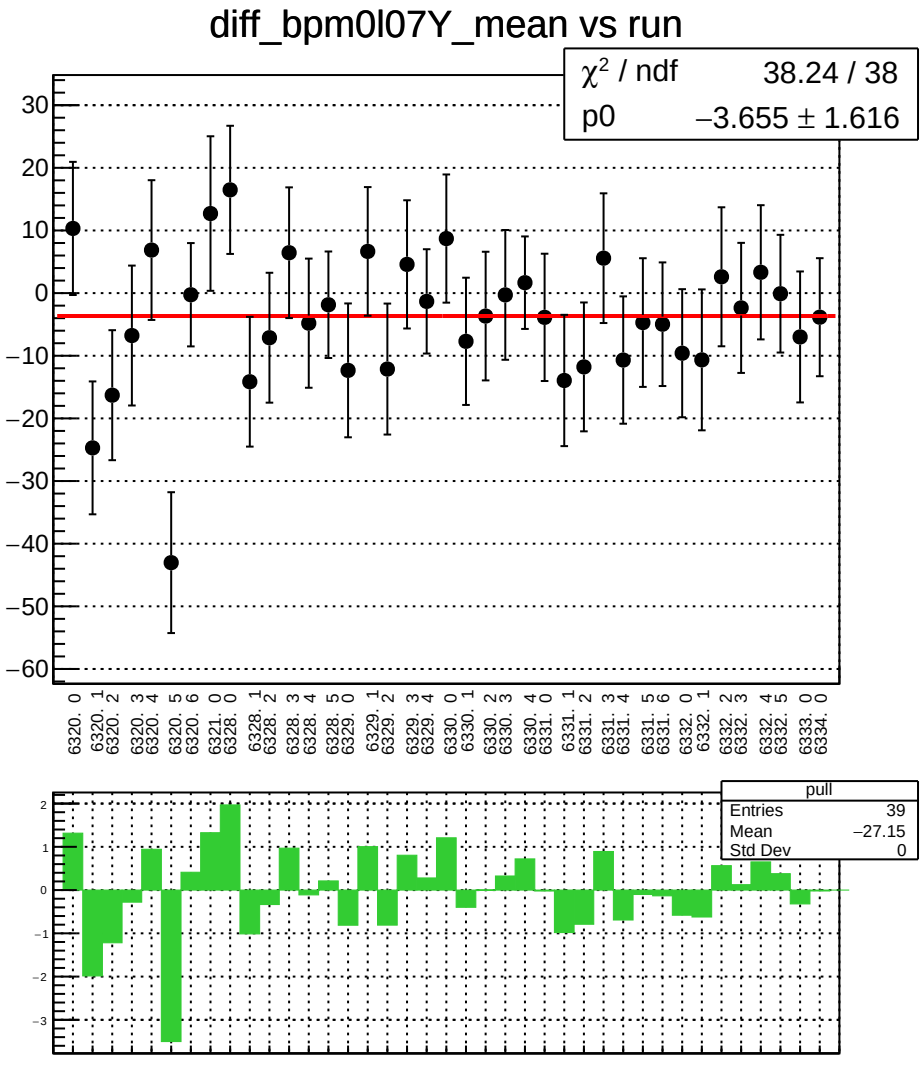

pull1D
Entries 39
Mean −0.002946
Std Dev 0.9428

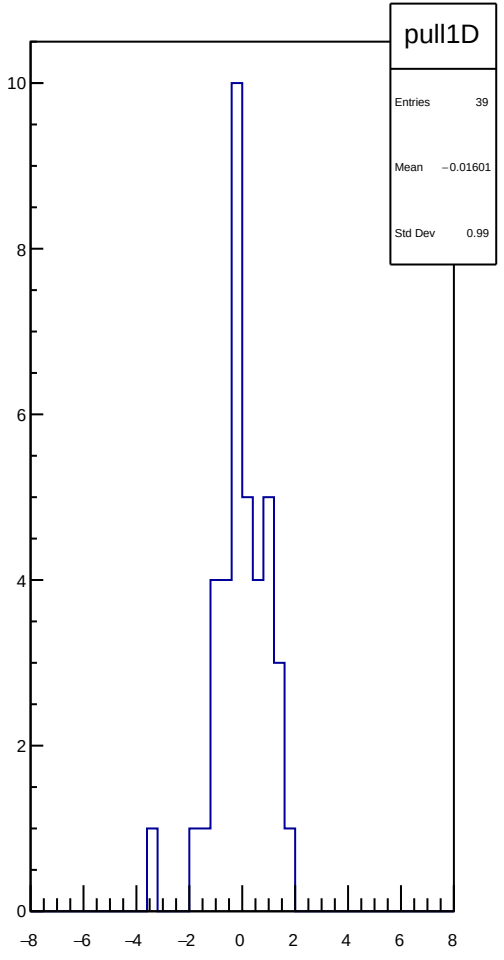

diff_bpm0l06Y_rms vs run
χ² / ndf 435.6 / 38
p0 1201 ± 1.38
1300
1280
1260
1240
1220
1200
1180
1160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

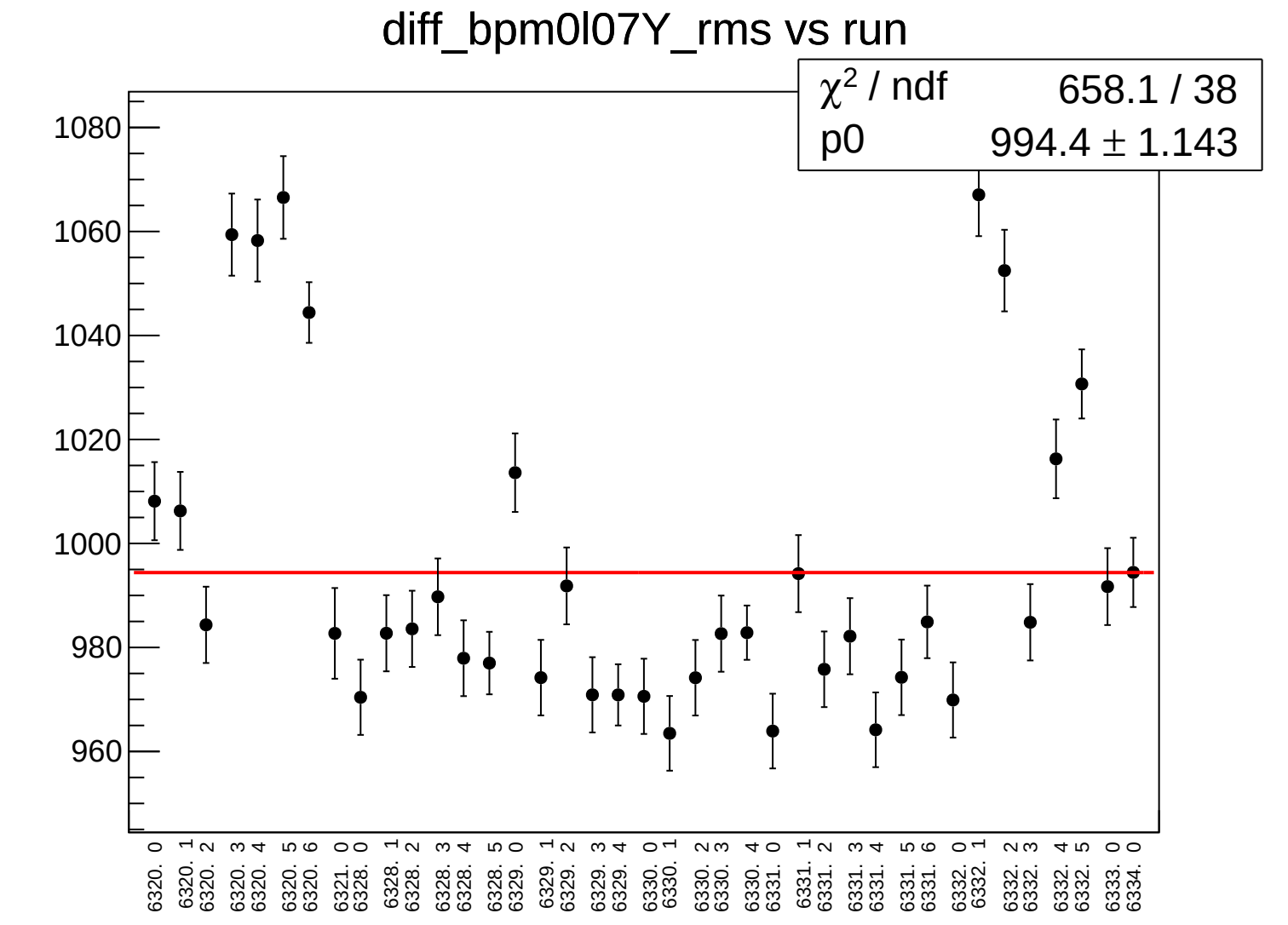

diff_bpm0l07X_mean vs run
χ² / ndf 32.68 / 38
p0 12.9 ± 14.33
pull
Entries 39
Mean −209
Std Dev 0

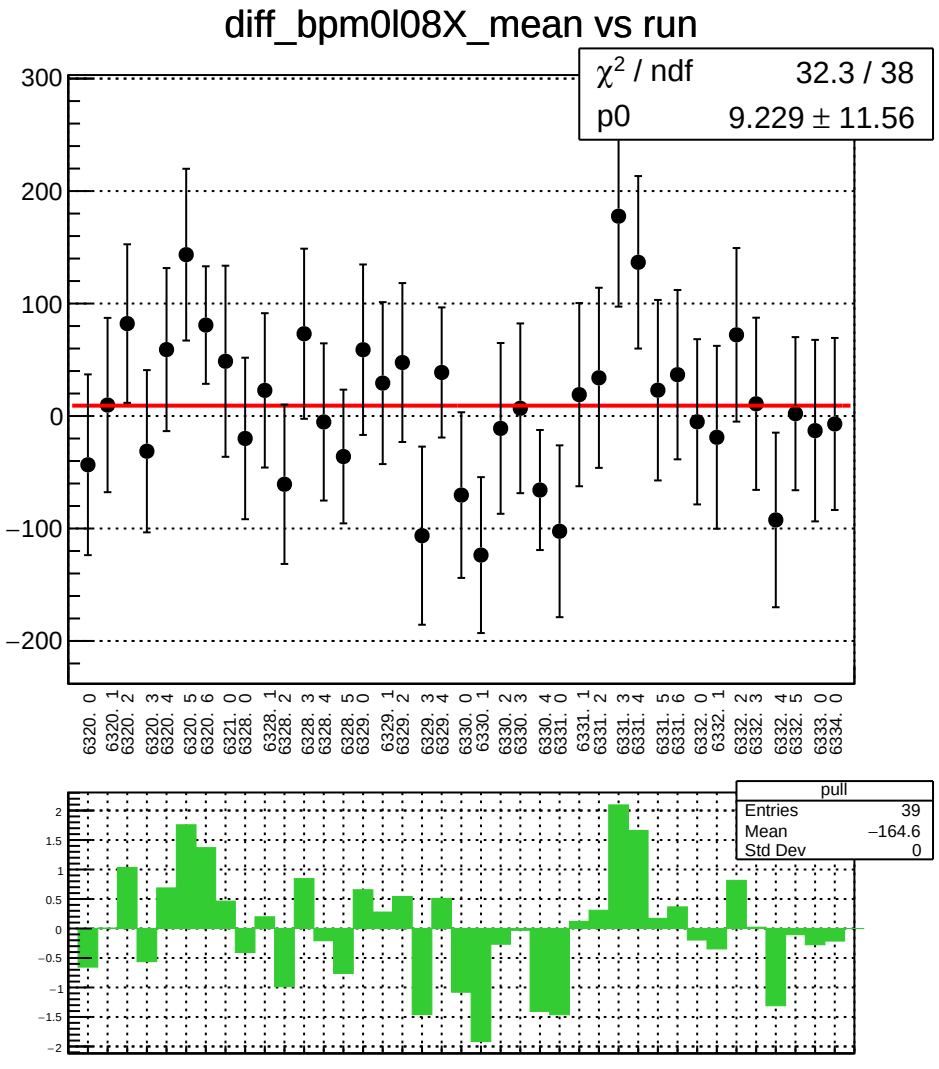

pull1D
Entries 39
Mean 0.00599
Std Dev 0.9154

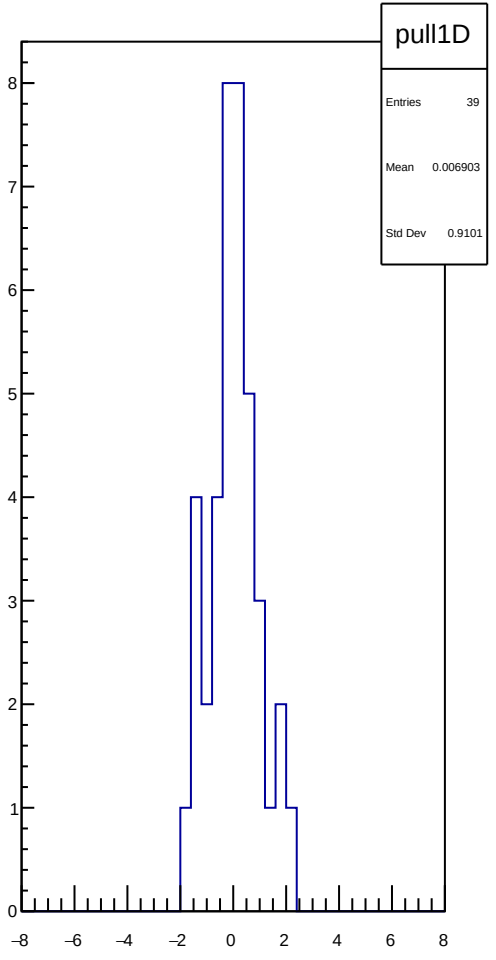

diff_bpm0l07X_rms vs run
χ² / ndf 2387 / 38
p0 8808 ± 10.13
10000
9500
9000
8500
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

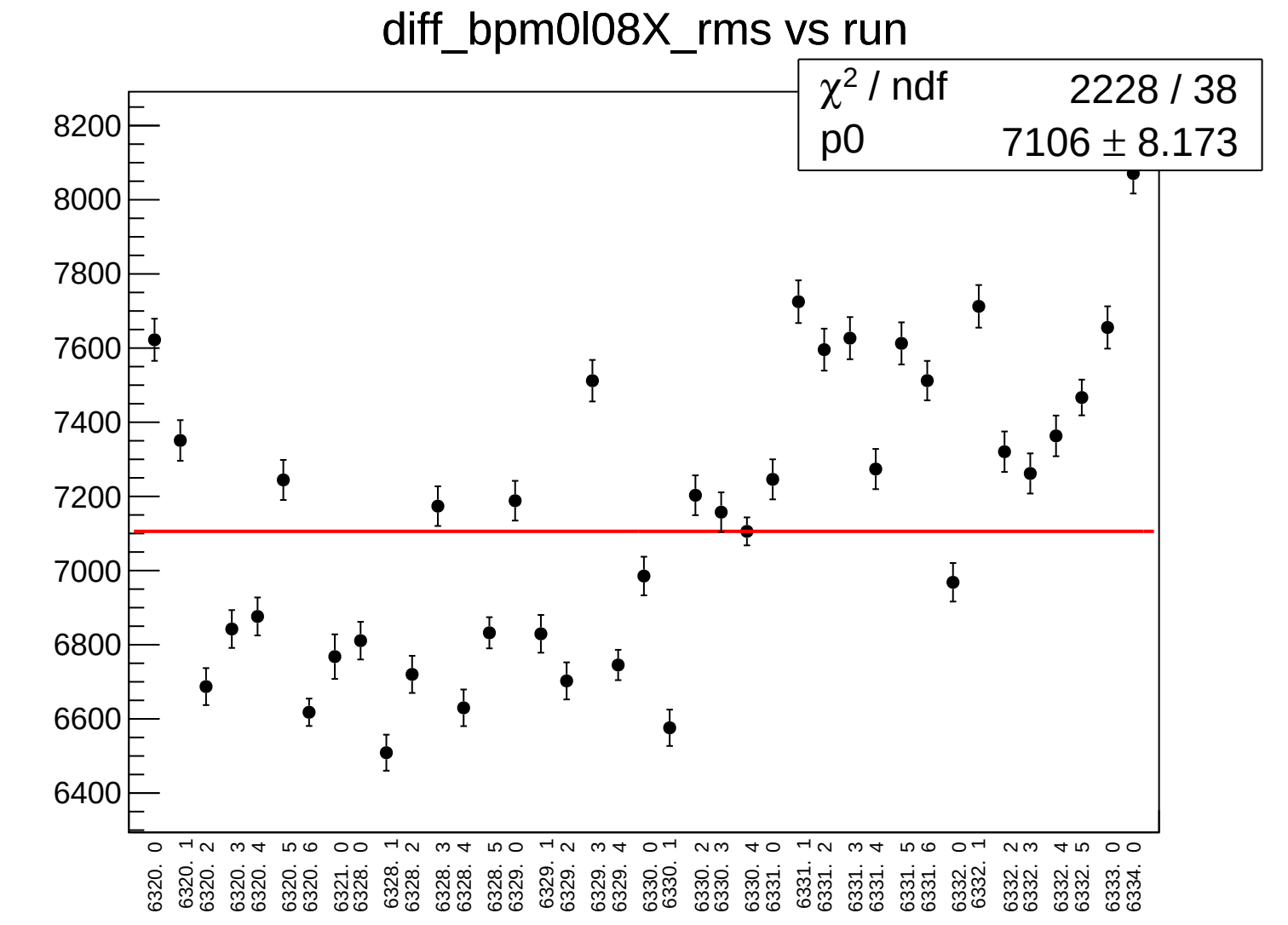

diff_bpm0l07Y_mean vs run
χ² / ndf 38.24 / 38
p0 −3.655 ± 1.616
pull
Entries 39
Mean −27.15
Std Dev 0

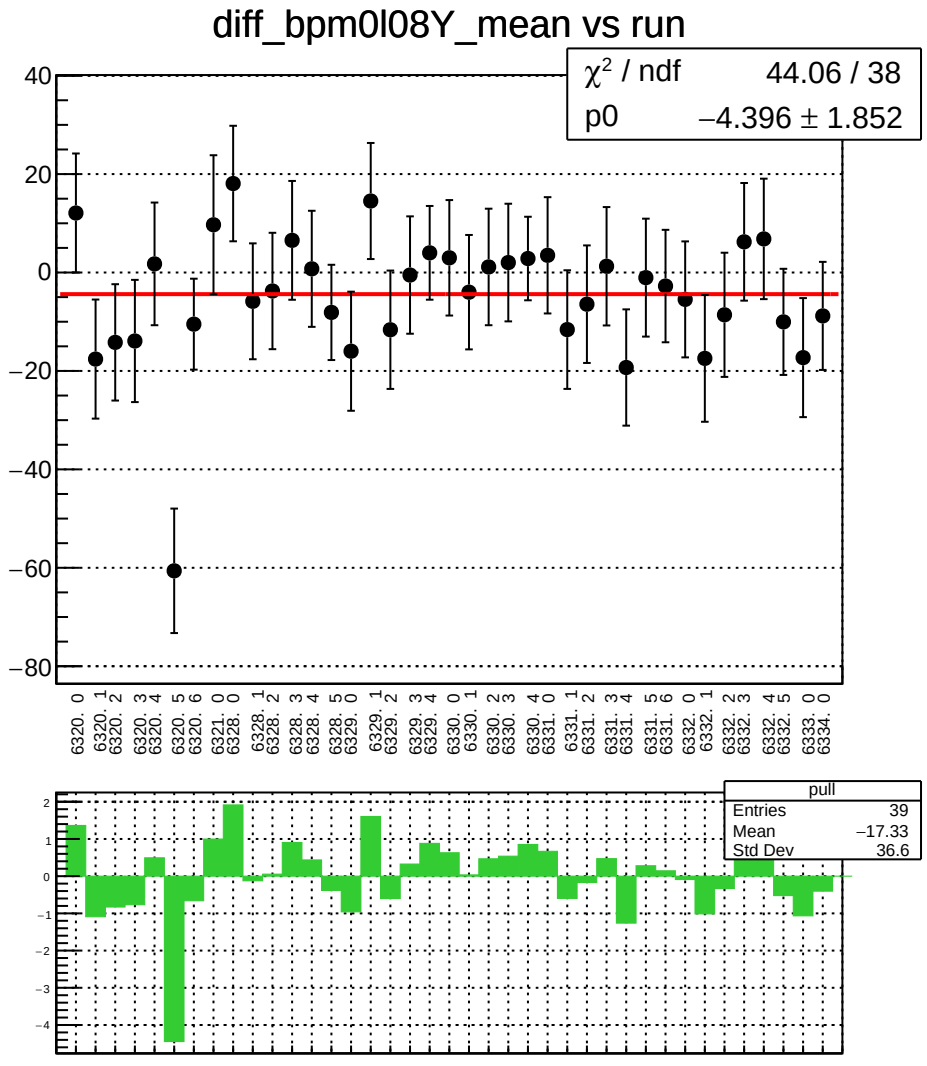

pull1D
Entries 39
Mean −0.01601
Std Dev 0.99

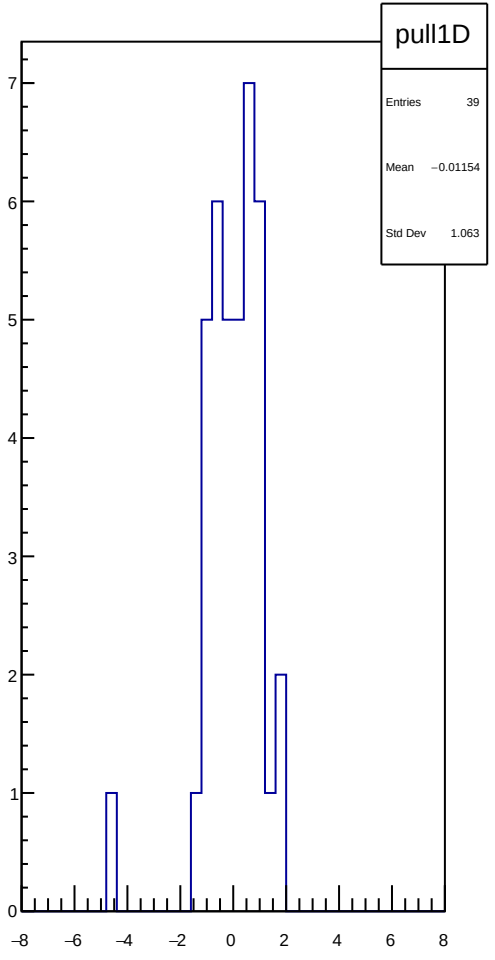

diff_bpm0l07Y_rms vs run
χ² / ndf 658.1 / 38
p0 994.4 ± 1.143
1080
1060
1040
1020
1000
980
960
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

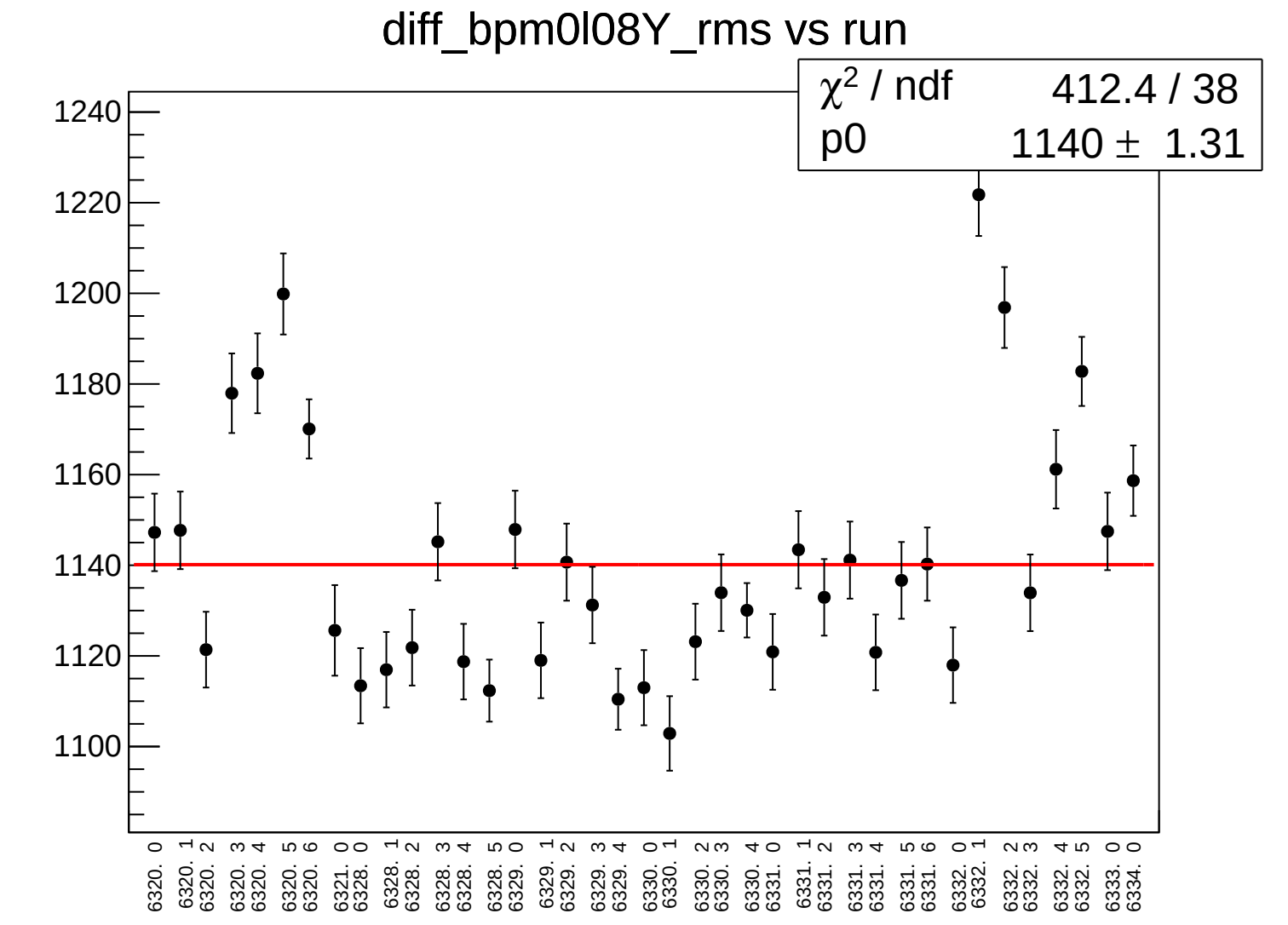

diff_bpm0l08X_mean vs run
χ² / ndf 32.3 / 38
p0 9.229 ± 11.56
pull
Entries 39
Mean −164.6
Std Dev 0

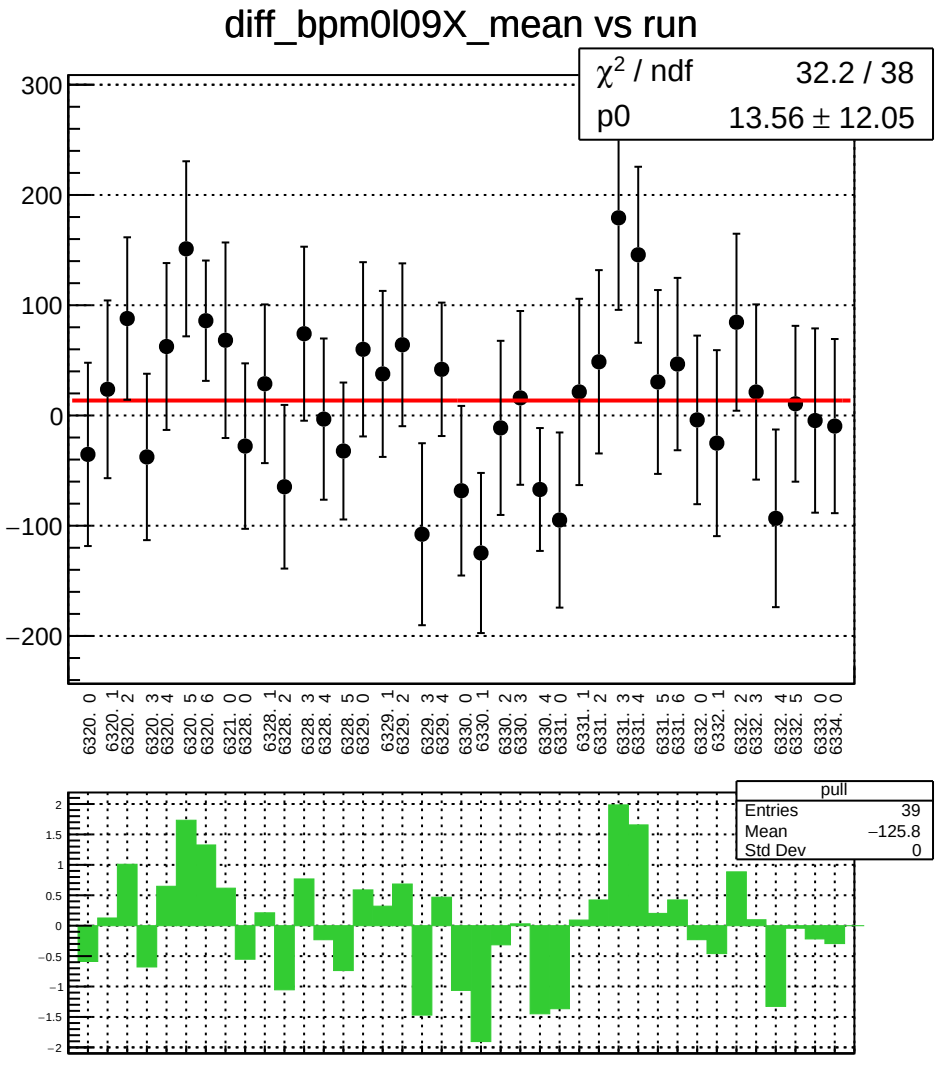

pull1D
Entries 39
Mean 0.006903
Std Dev 0.9101

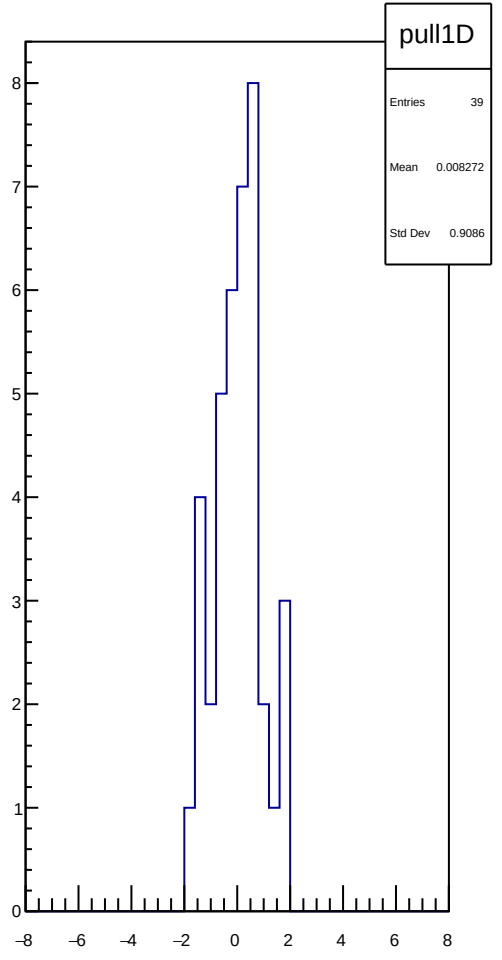

diff_bpm0l08X_rms vs run
χ² / ndf 2228 / 38
p0 7106 ± 8.173
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

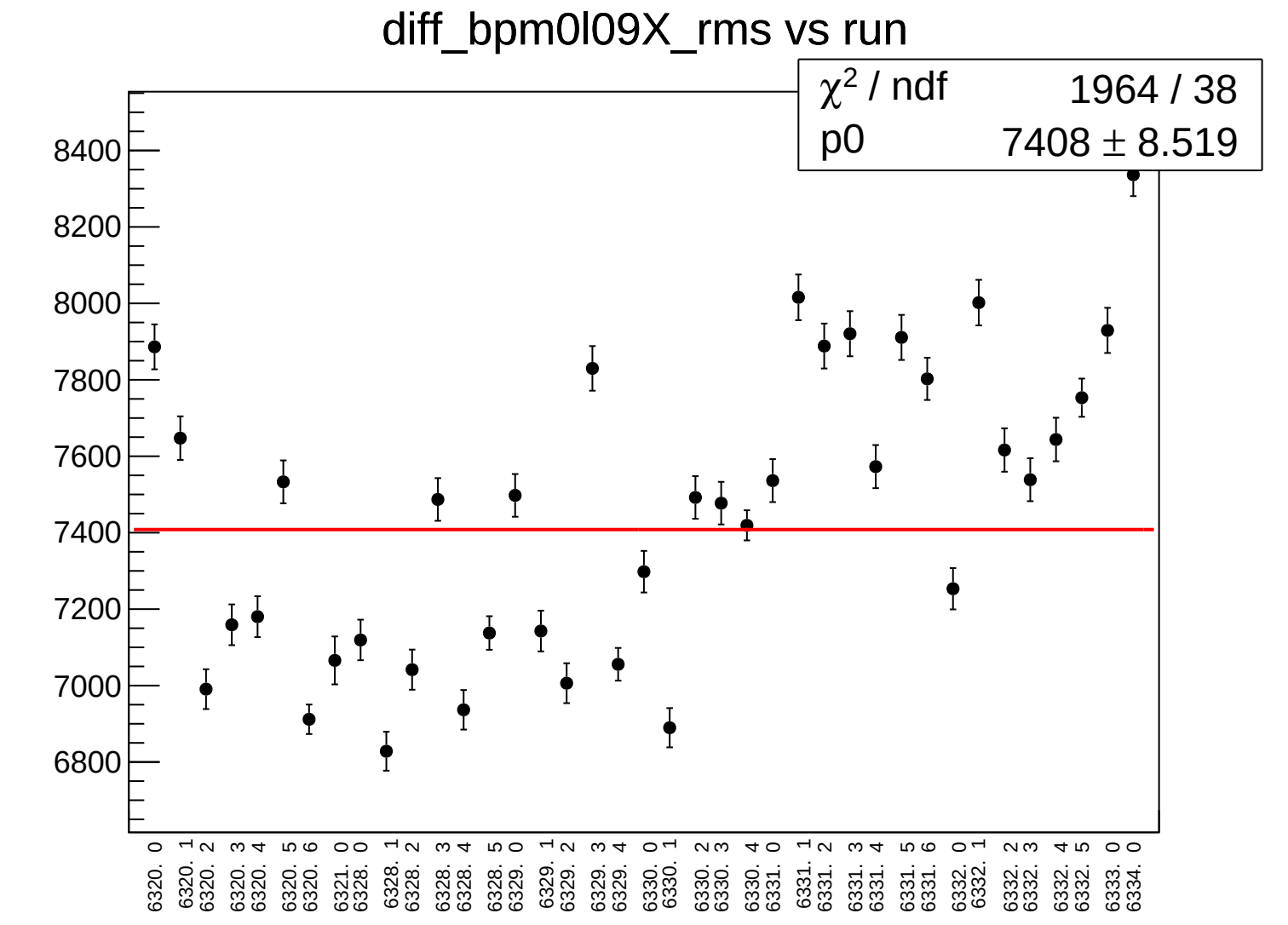

diff_bpm0l08Y_mean vs run
χ² / ndf 44.06 / 38
p0 −4.396 ± 1.852
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.33
Std Dev 36.6
2
1
0
−1
−2
−3
−4

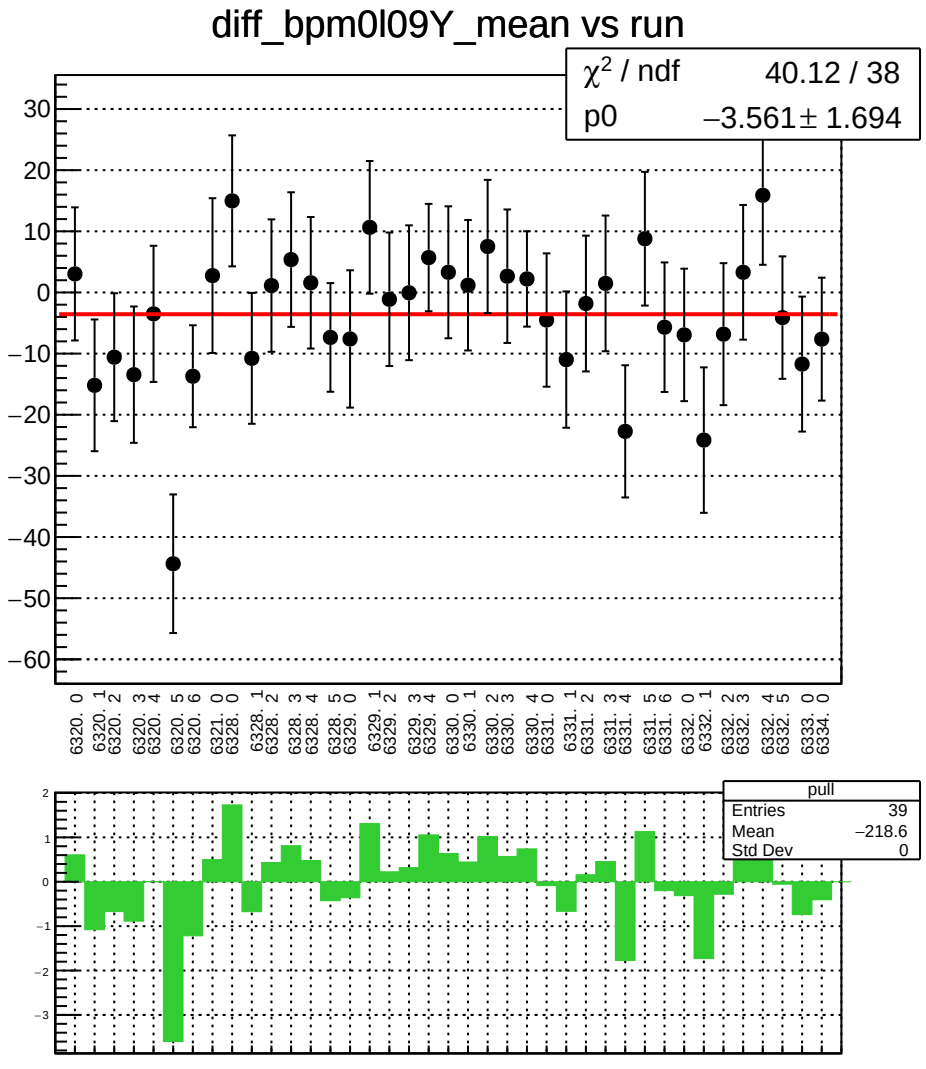

pull1D
Entries 39
Mean −0.01154
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

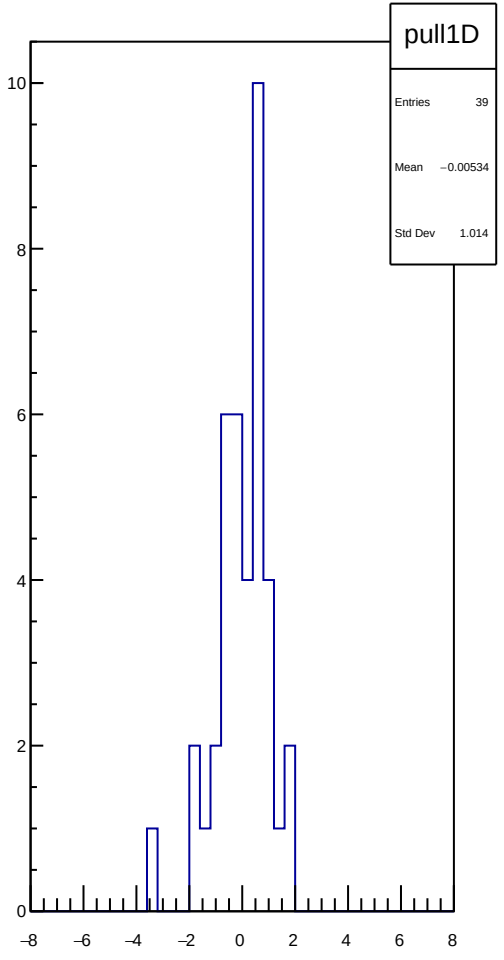

diff_bpm0l08Y_rms vs run
χ² / ndf 412.4 / 38
p0 1140 ± 1.31
1240
1220
1200
1180
1160
1140
1120
1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

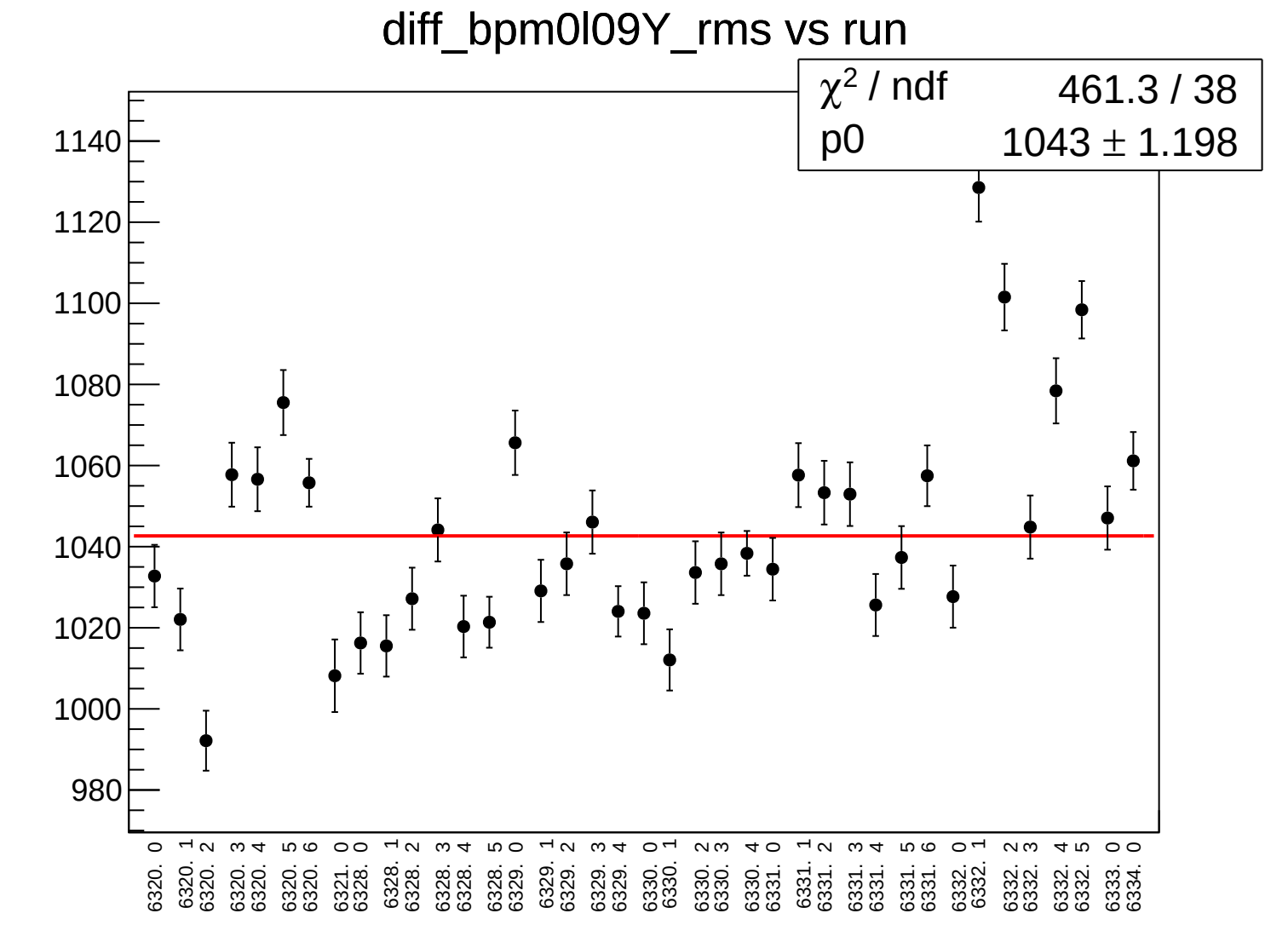

diff_bpm0l09X_mean vs run
χ² / ndf 32.2 / 38
p0 13.56 ± 12.05
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −125.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

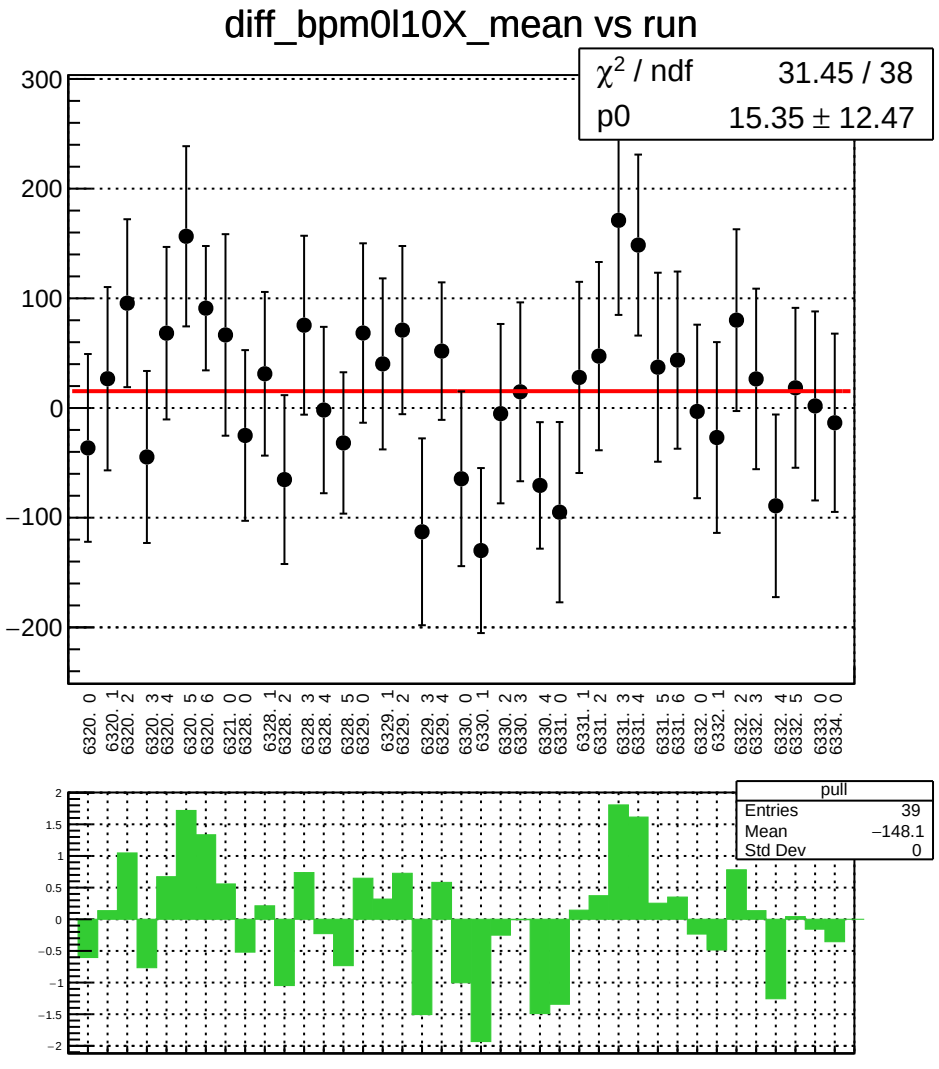

pull1D
Entries 39
Mean 0.008272
Std Dev 0.9086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

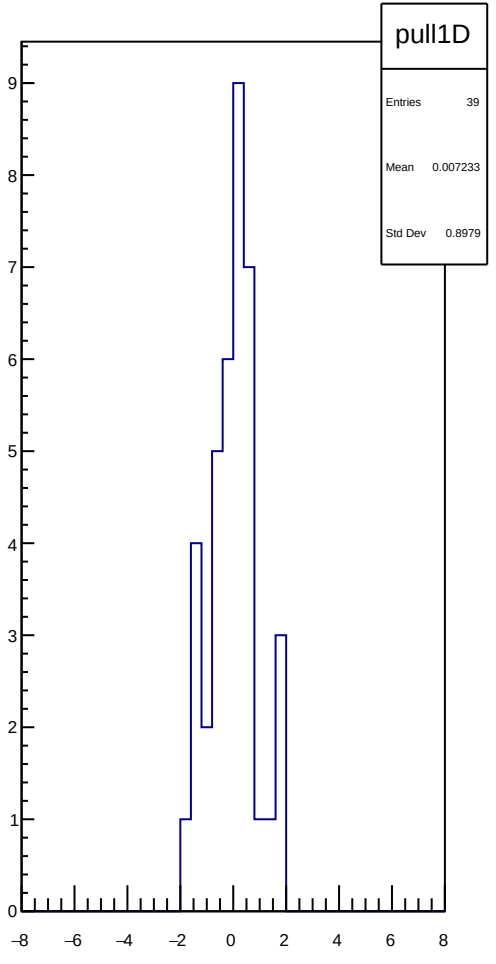

diff_bpm0l09X_rms vs run
χ² / ndf 1964 / 38
p0 7408 ± 8.519
8400
8200
8000
7800
7600
7400
7200
7000
6800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

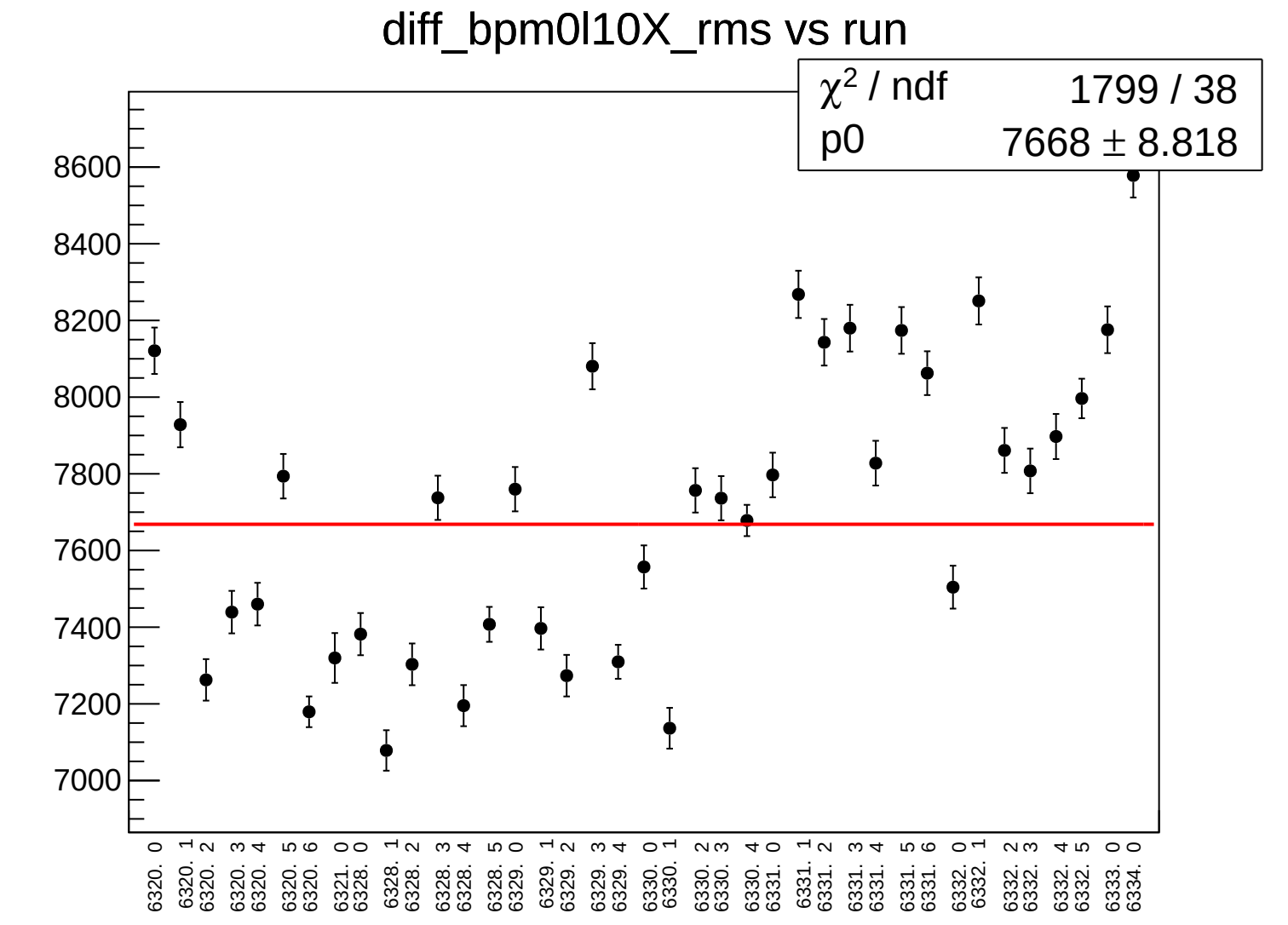

diff_bpm0l09Y_mean vs run
χ² / ndf 40.12 / 38
p0 −3.561 ± 1.694
pull
Entries 39
Mean −218.6
Std Dev 0

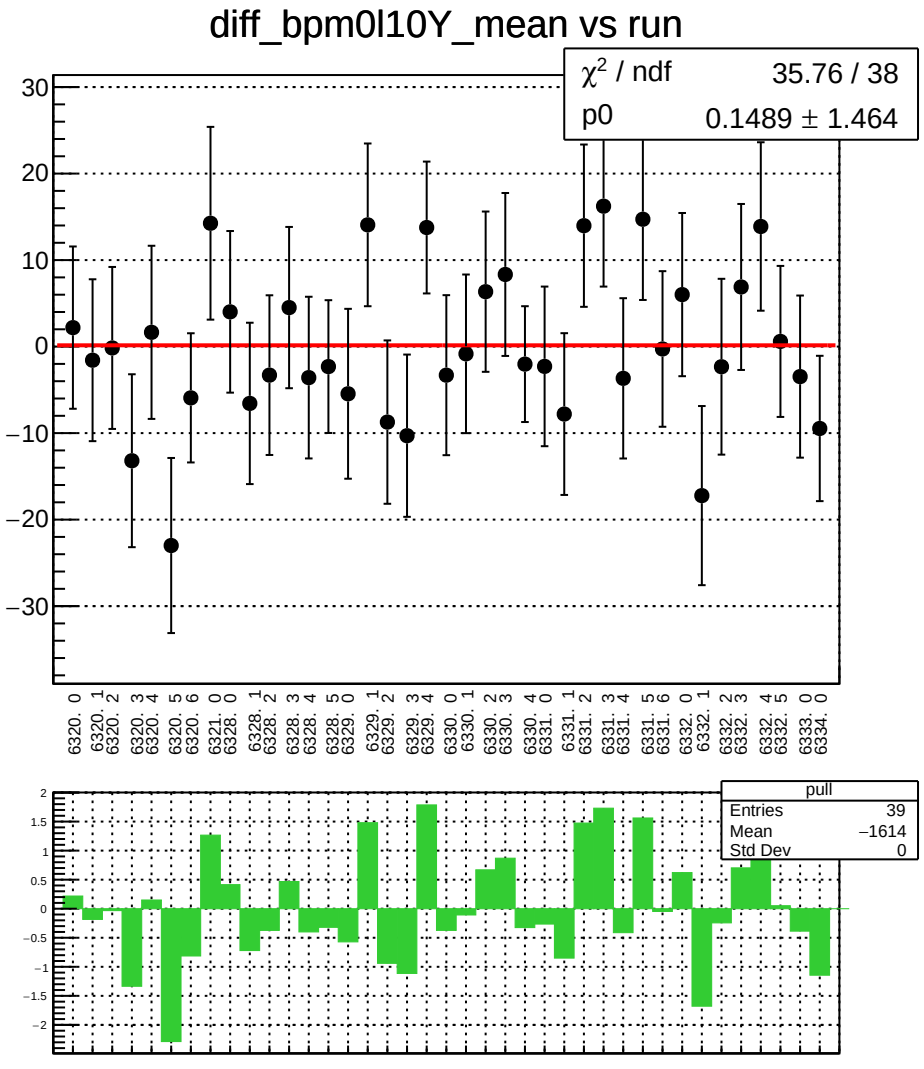

pull1D
Entries 39
Mean −0.00534
Std Dev 1.014

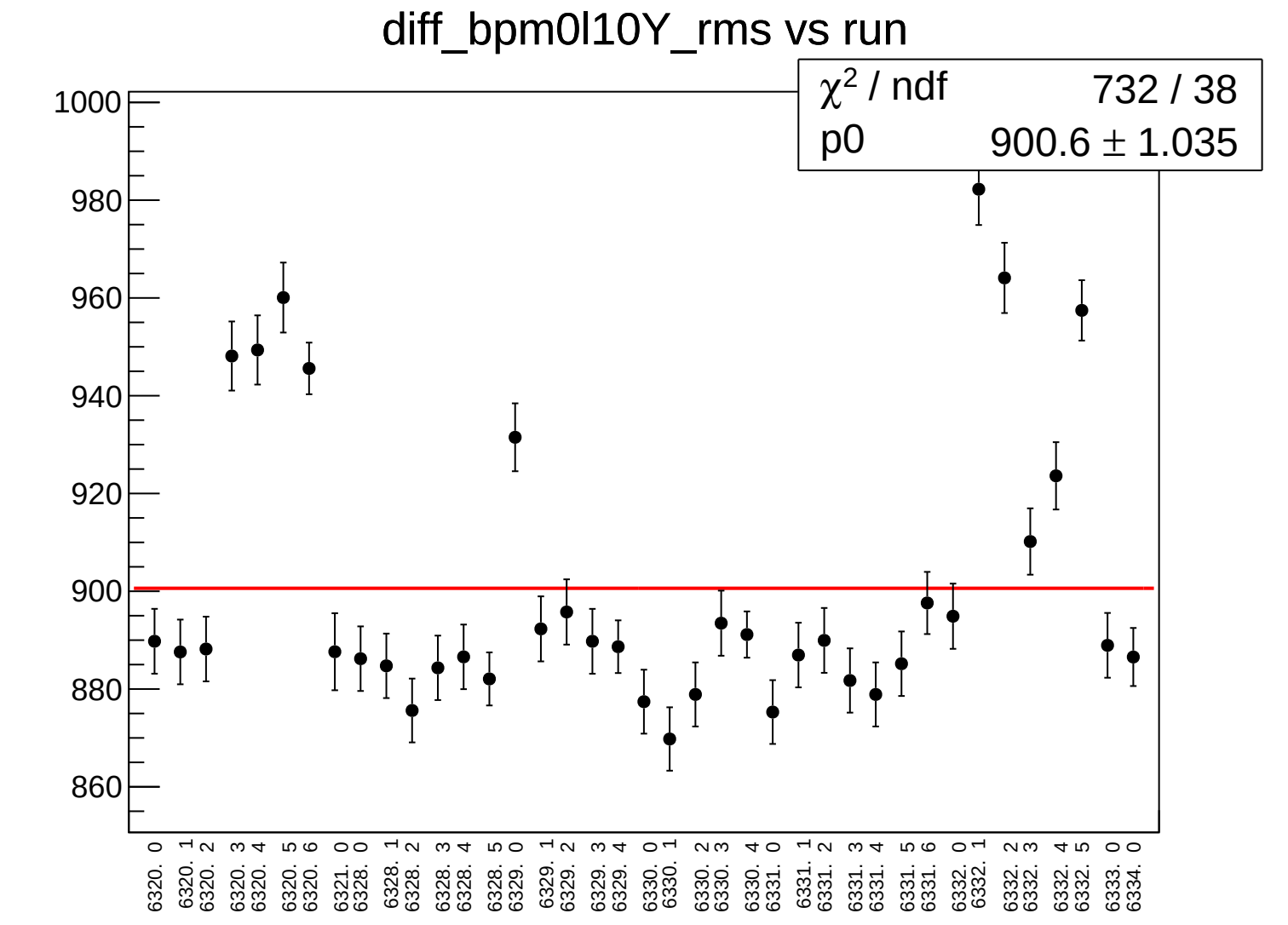

diff_bpm0l09Y_rms vs run
χ² / ndf 461.3 / 38
p0 1043 ± 1.198
1140
1120
1100
1080
1060
1040
1020
1000
980
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

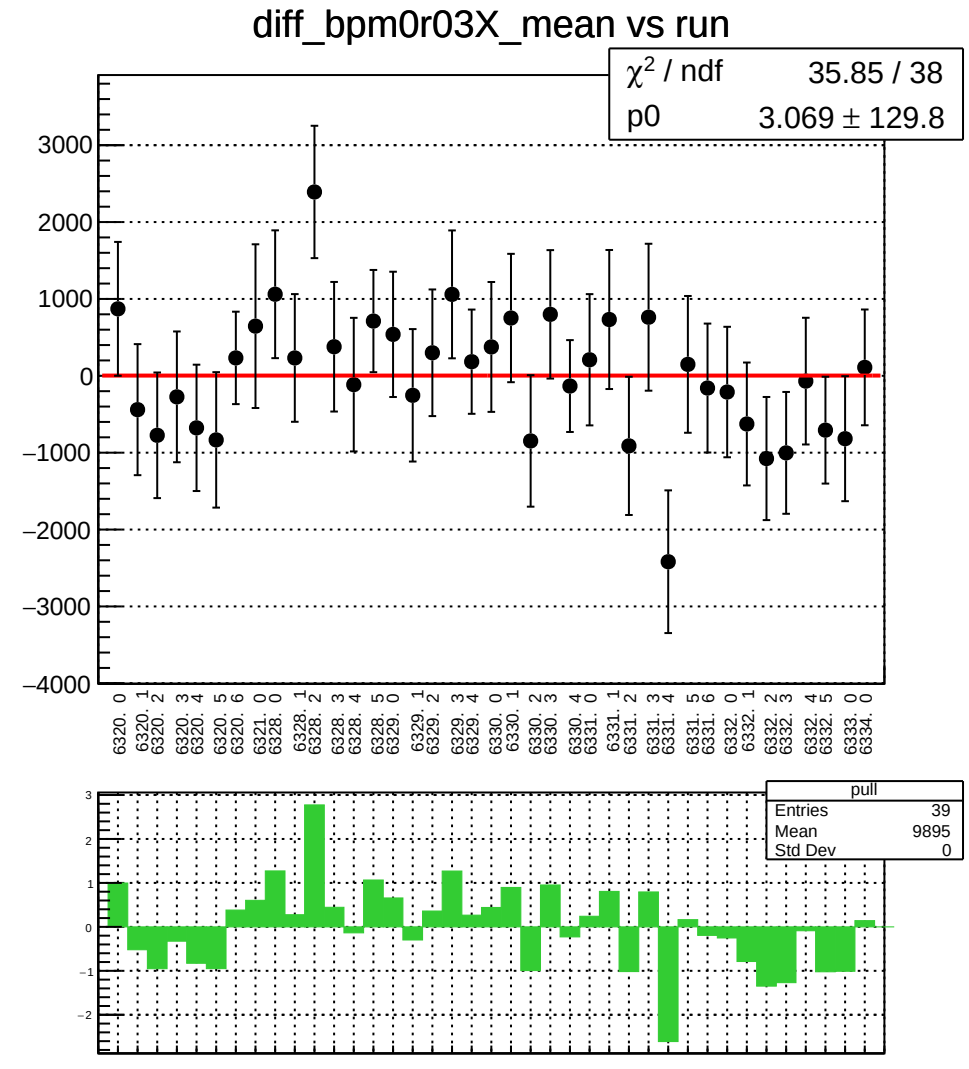

diff_bpm0l10X_mean vs run
χ² / ndf 31.45 / 38
p0 15.35 ± 12.47
pull
Entries 39
Mean −148.1
Std Dev 0

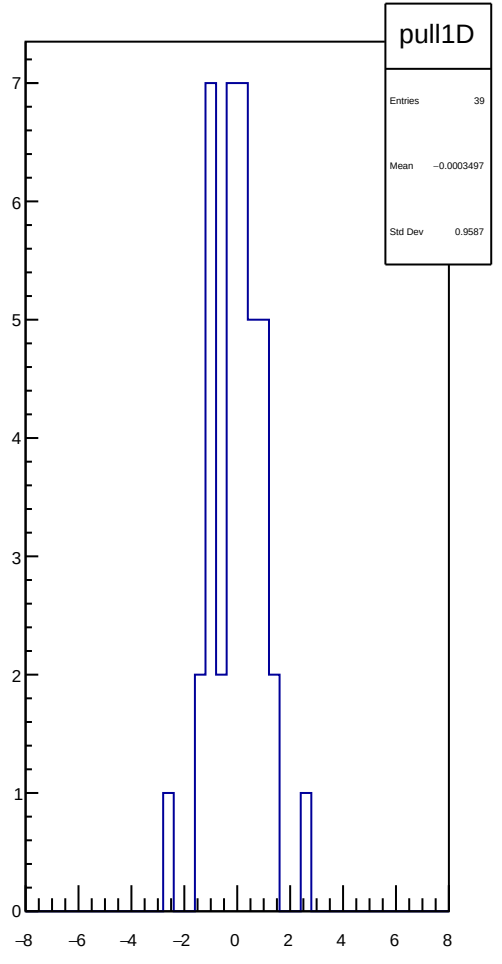

pull1D
Entries 39
Mean 0.007233
Std Dev 0.8979

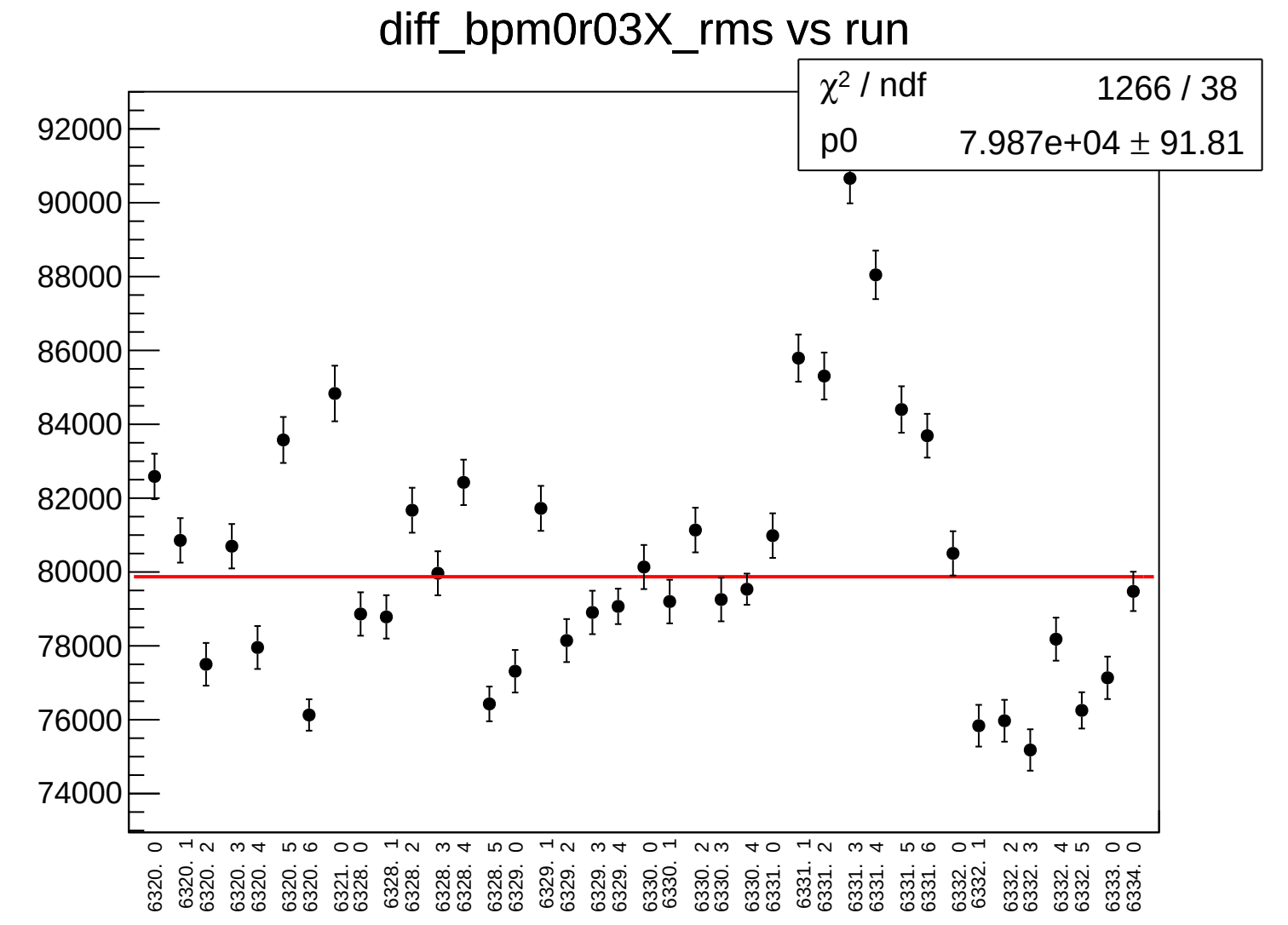

diff_bpm0l10X_rms vs run
χ² / ndf 1799 / 38
p0 7668 ± 8.818
8600
8400
8200
8000
7800
7600
7400
7200
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

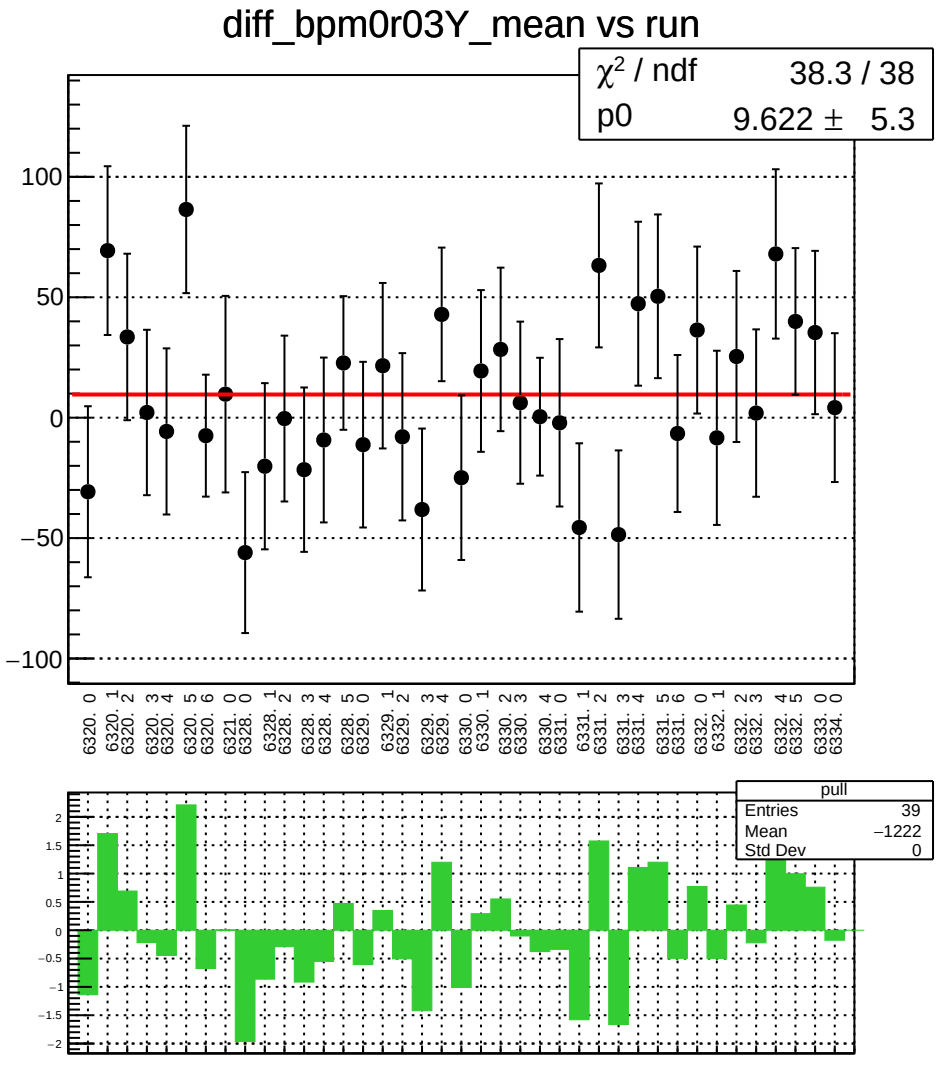

diff_bpm0l10Y_mean vs run
χ² / ndf 35.76 / 38
p0 0.1489 ± 1.464
pull
Entries 39
Mean −1614
Std Dev 0
pull1D
Entries 39
Mean −0.00114
Std Dev 0.9576

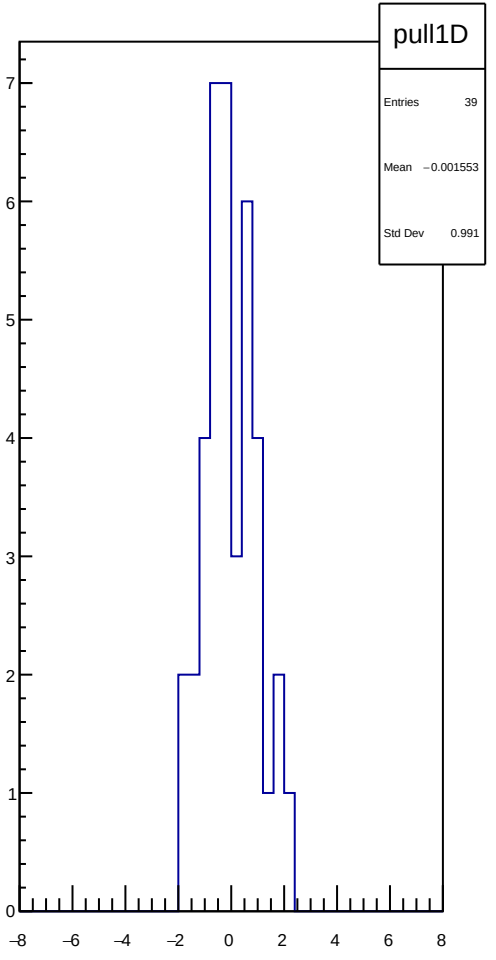

diff_bpm0l10Y_rms vs run
χ² / ndf 732 / 38
p0 900.6 ± 1.035
1000
980
960
940
920
900
880
860
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

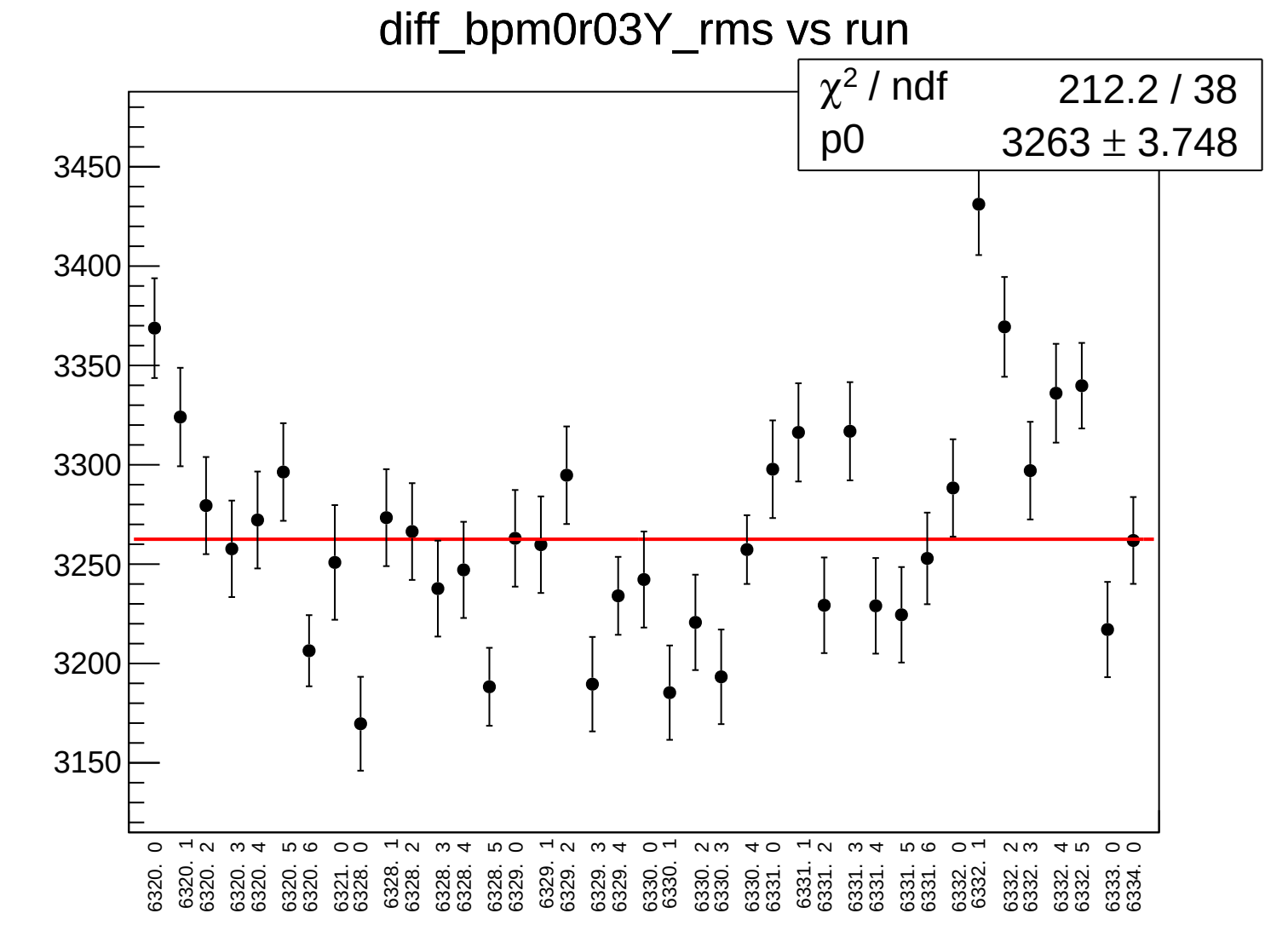

diff_bpm0r03X_mean vs run
χ^2 / ndf 35.85 / 38
p0 3.069 ± 129.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 9895
Std Dev 0
3
2
1
0
−1
−2

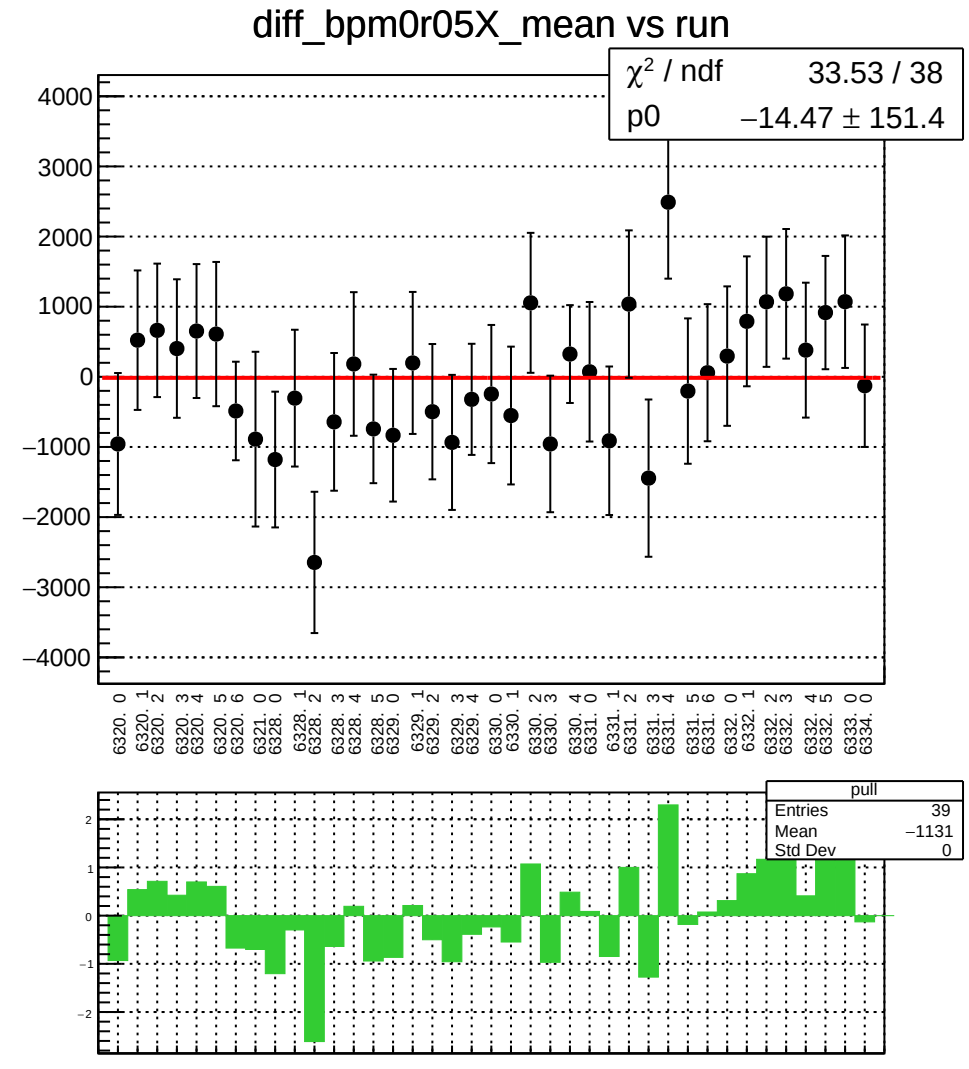

pull1D
Entries 39
Mean −0.0003497
Std Dev 0.9587
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

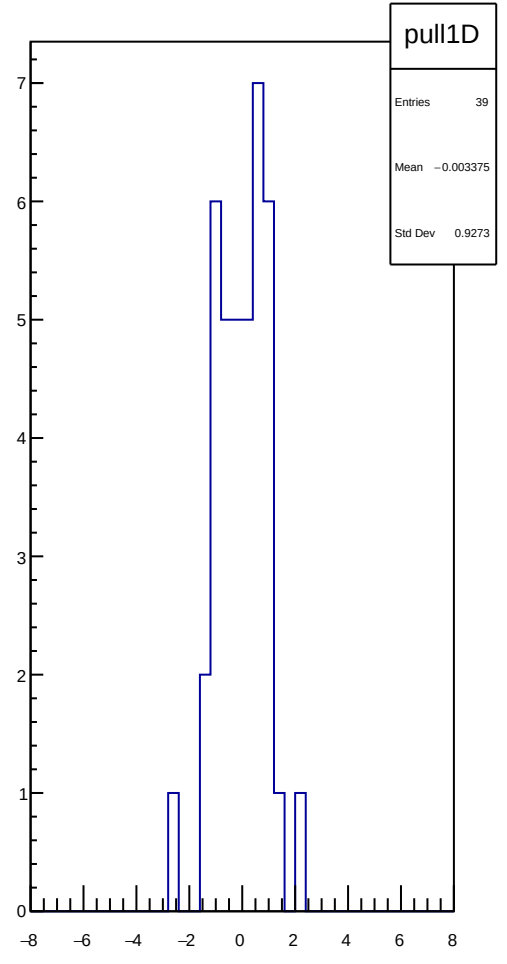

diff_bpm0r03X_rms vs run
χ² / ndf 1266 / 38
p0 7.987e+04 ± 91.81
92000
90000
88000
86000
84000
82000
80000
78000
76000
74000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

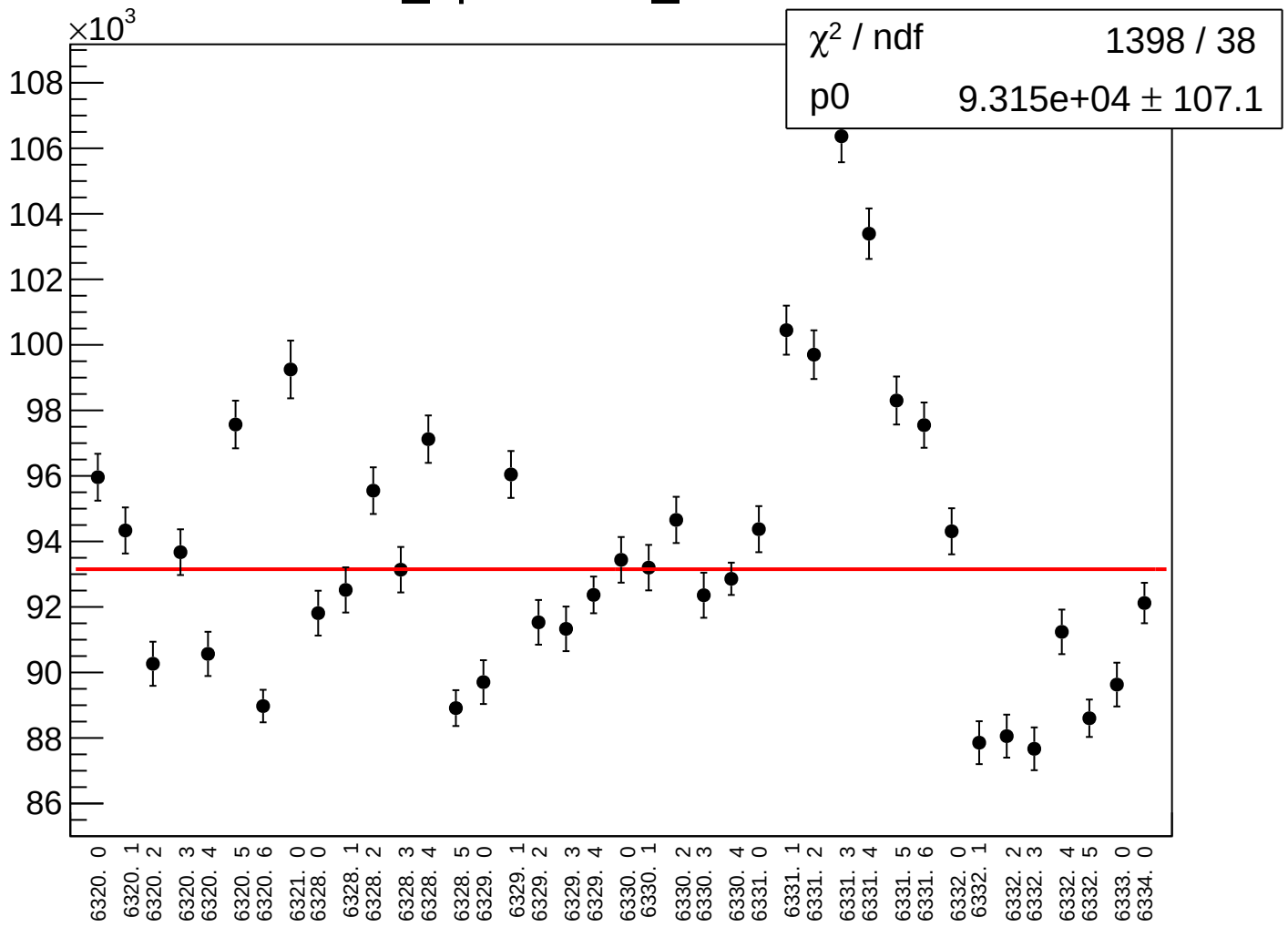

diff_bpm0r03Y_mean vs run
χ² / ndf 38.3 / 38
p0 9.622 ± 5.3
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

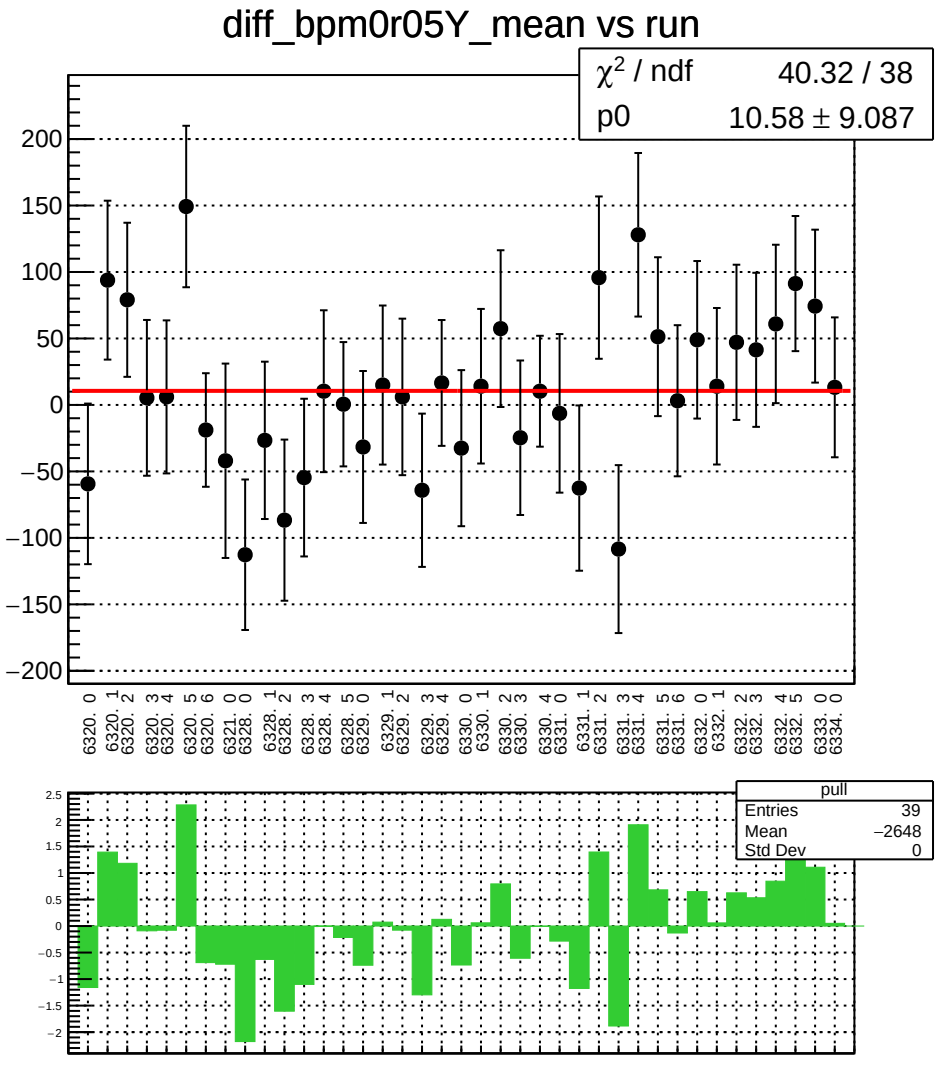

pull1D
Entries 39
Mean −0.001553
Std Dev 0.991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

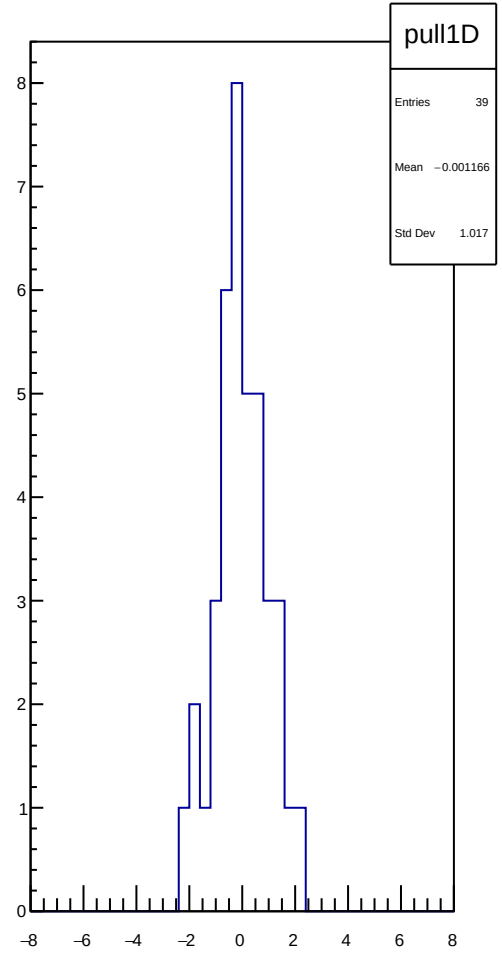

diff_bpm0r03Y_rms vs run
χ² / ndf 212.2 / 38
p0 3263 ± 3.748
3450
3400
3350
3300
3250
3200
3150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

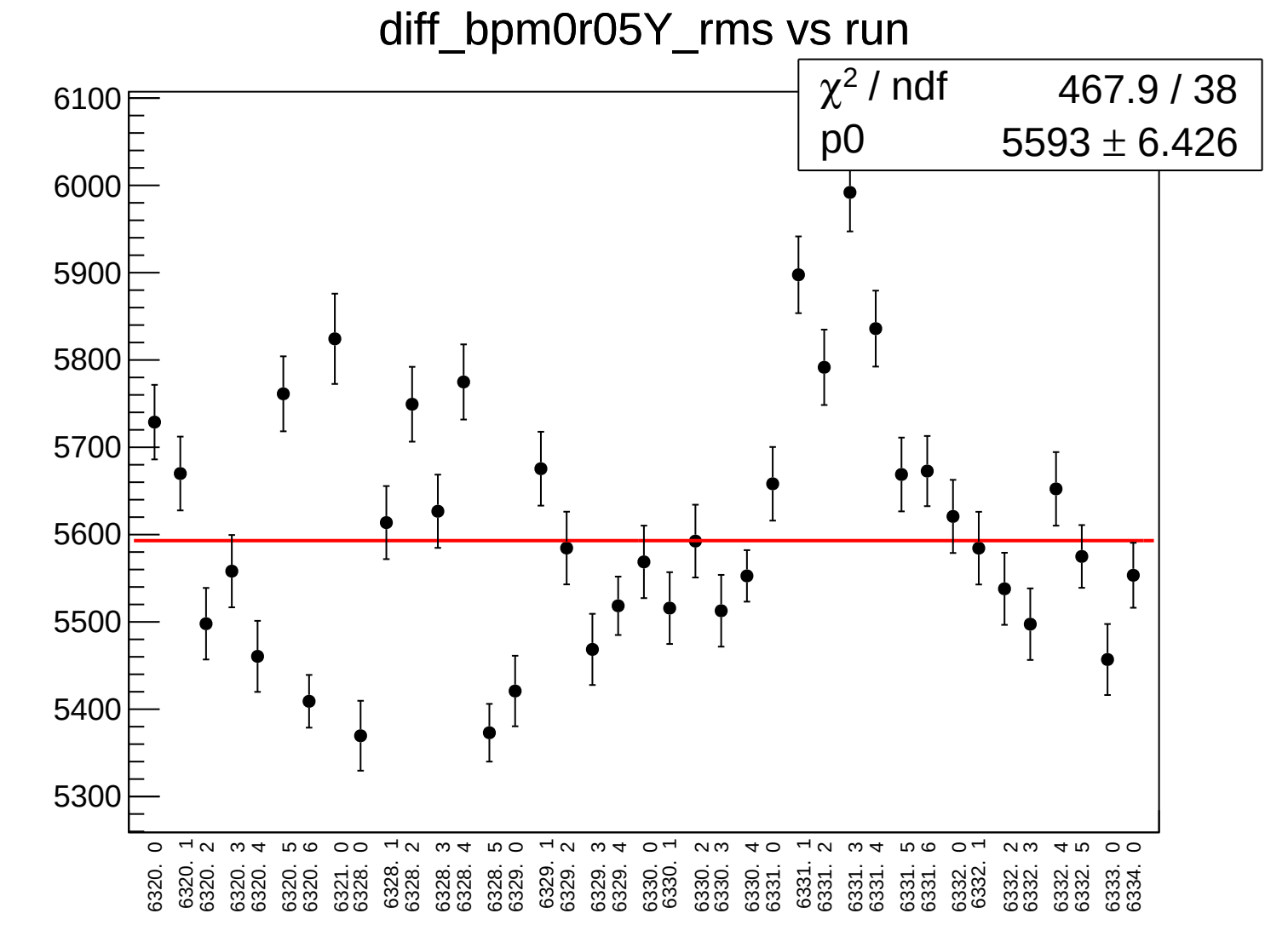

diff_bpm0r05X_mean vs run
χ² / ndf 33.53 / 38
p0 −14.47 ± 151.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1131
Std Dev 0
2
1
0
−1
−2

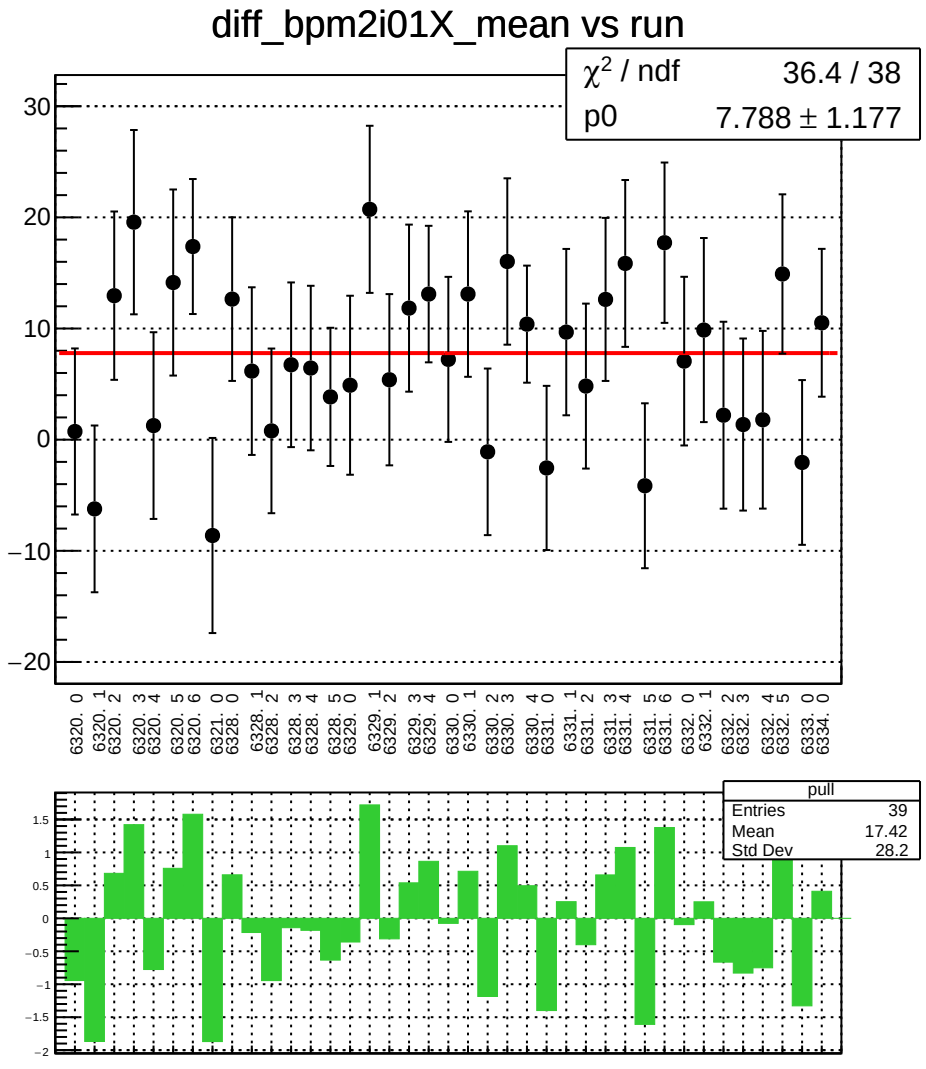

pull1D
Entries 39
Mean −0.003375
Std Dev 0.9273
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

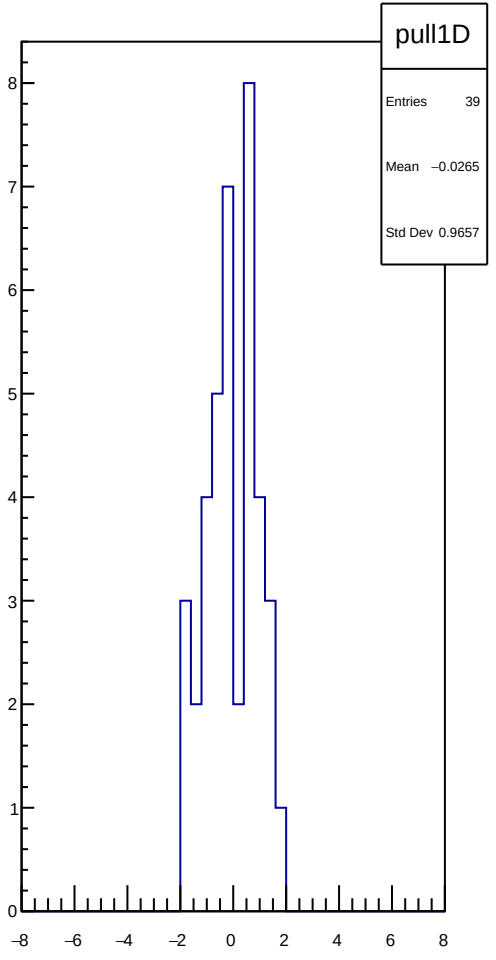

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 1398 / 38
p0 9.315e+04 ± 107.1
108
106
104
102
100
98
96
94
92
90
88
86
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

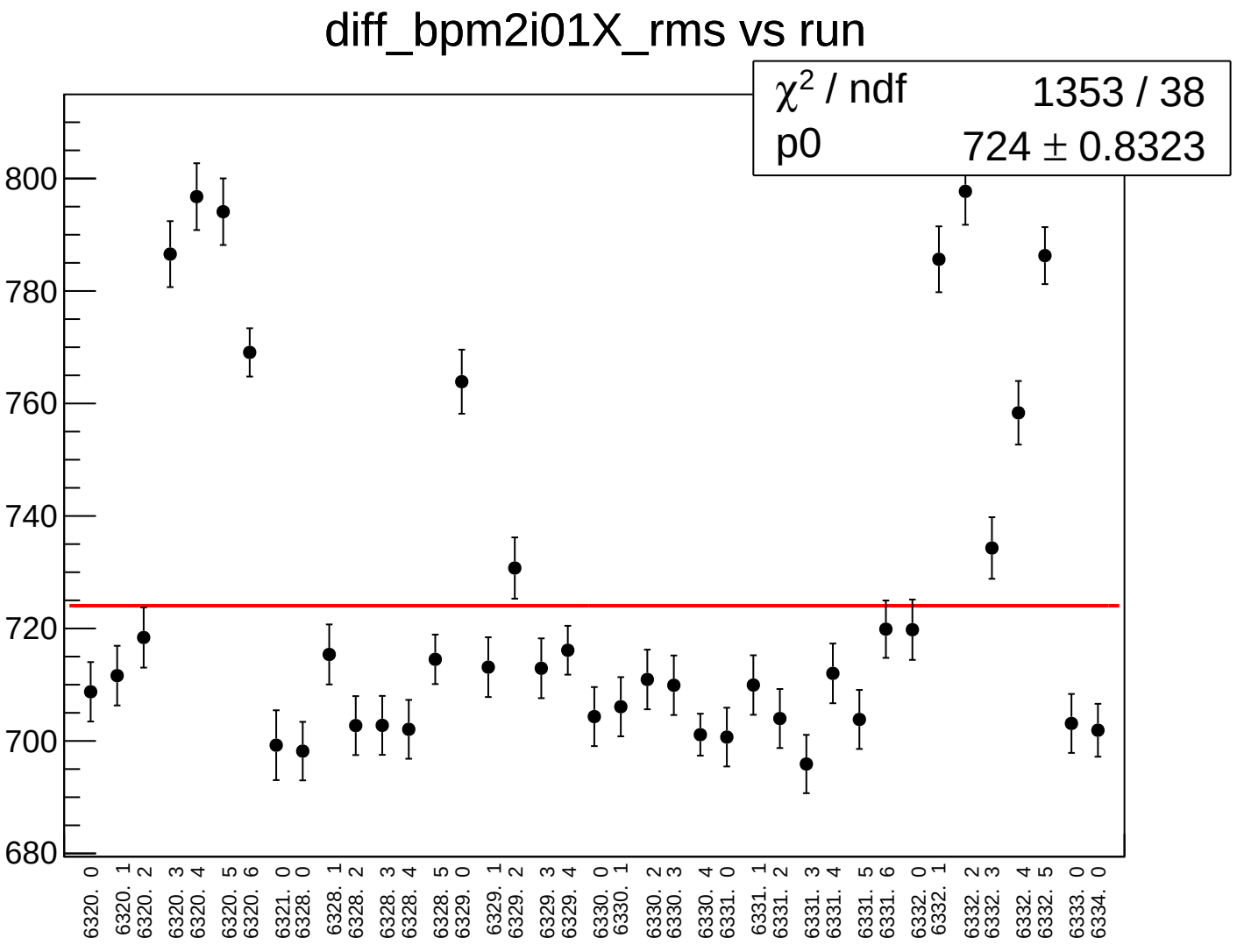

diff_bpm0r05Y_mean vs run
χ² / ndf 40.32 / 38
p0 10.58 ± 9.087
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2648
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

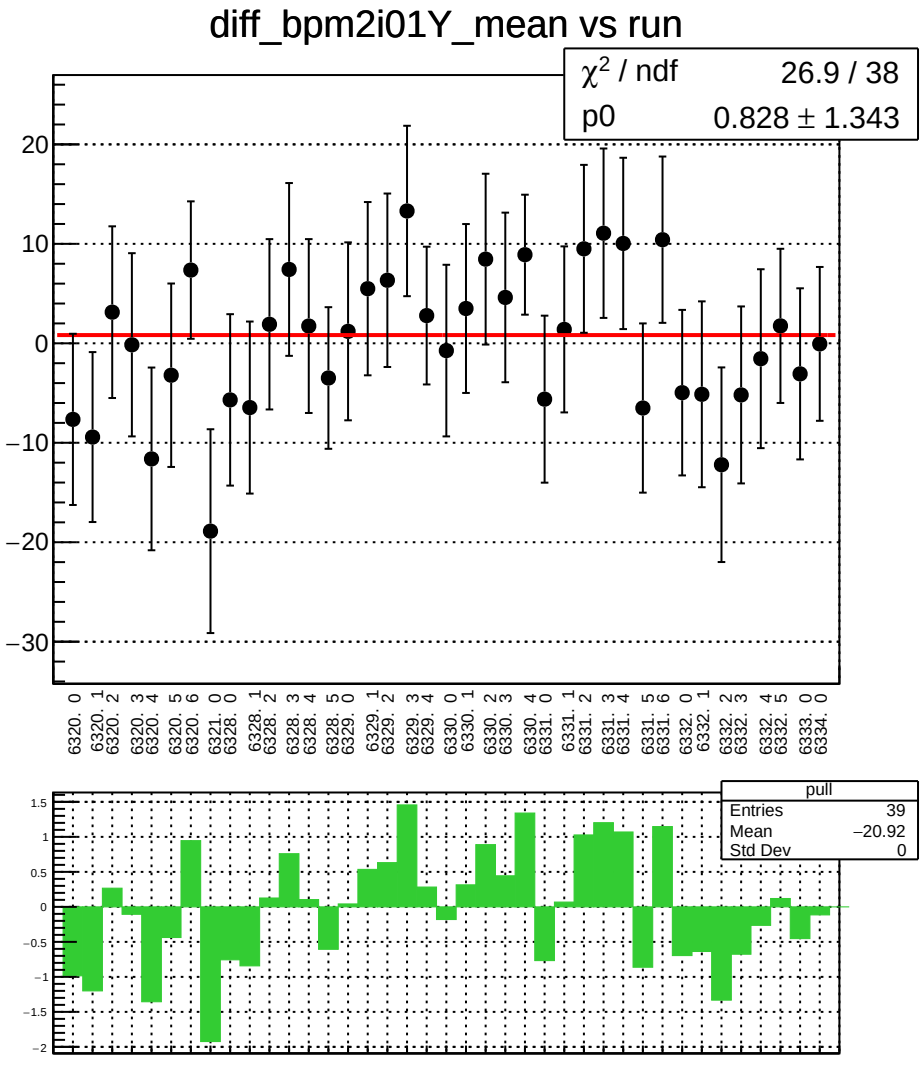

pull1D
Entries 39
Mean −0.001166
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

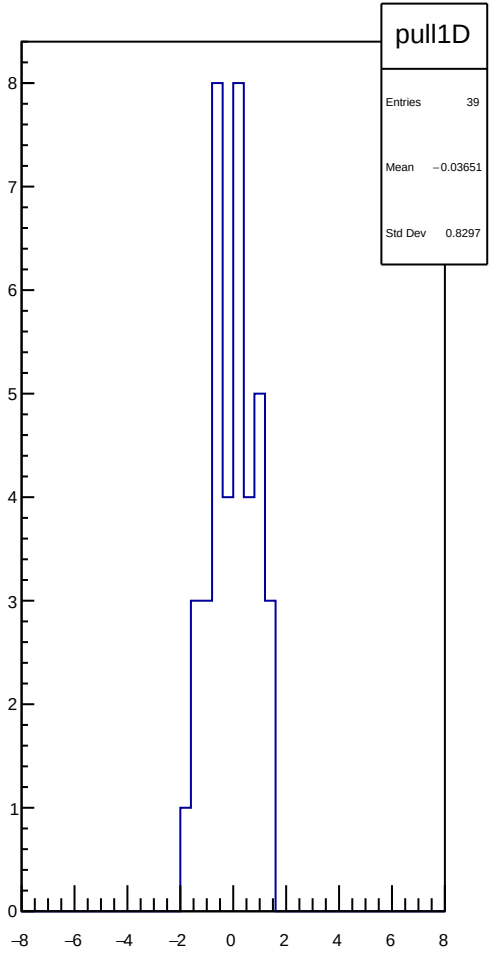

diff_bpm0r05Y_rms vs run
χ² / ndf 467.9 / 38
p0 5593 ± 6.426
6100
6000
5900
5800
5700
5600
5500
5400
5300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

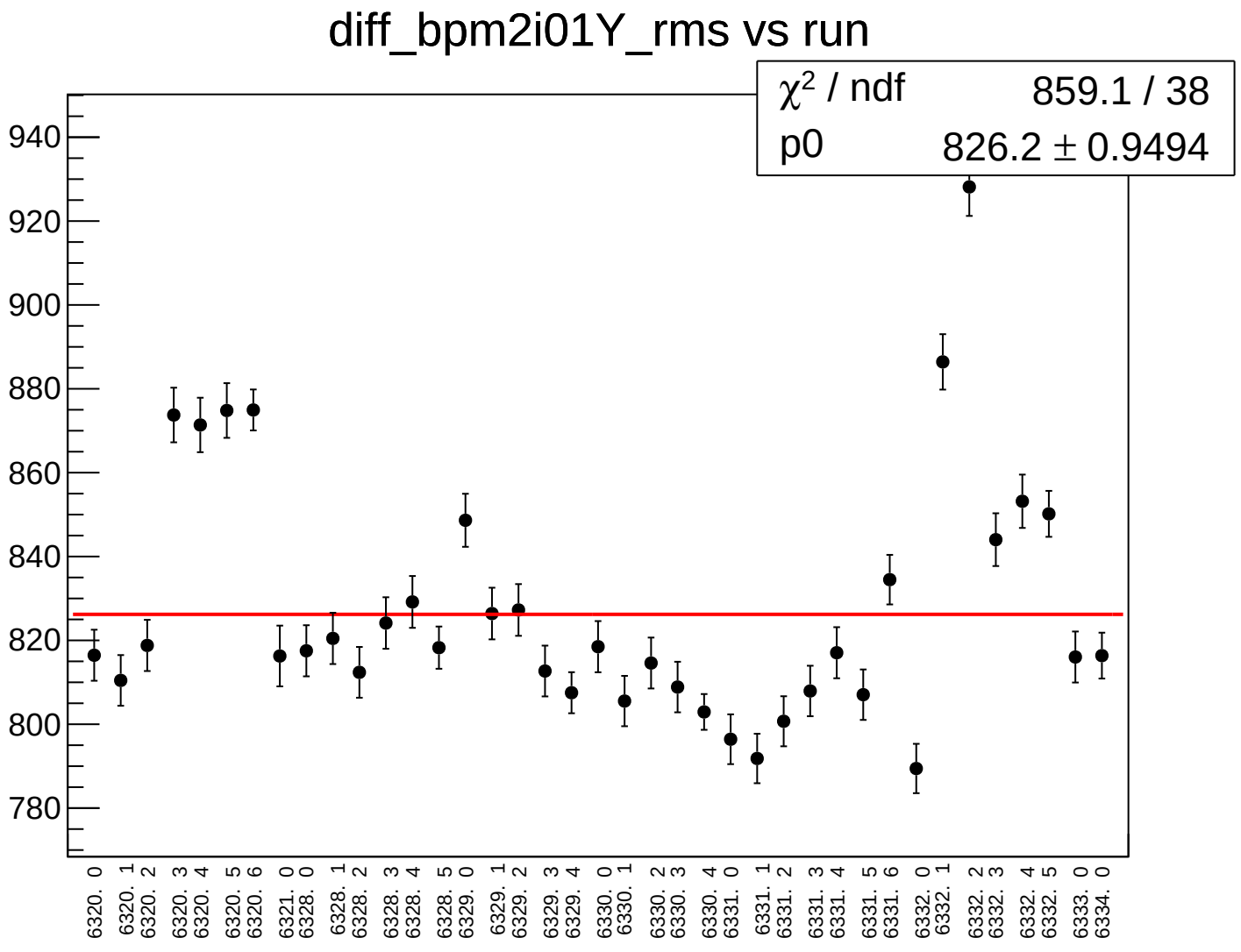

diff_bpm2i01X_mean vs run
χ² / ndf 36.4 / 38
p0 7.788 ± 1.177
pull
Entries 39
Mean 17.42
Std Dev 28.2

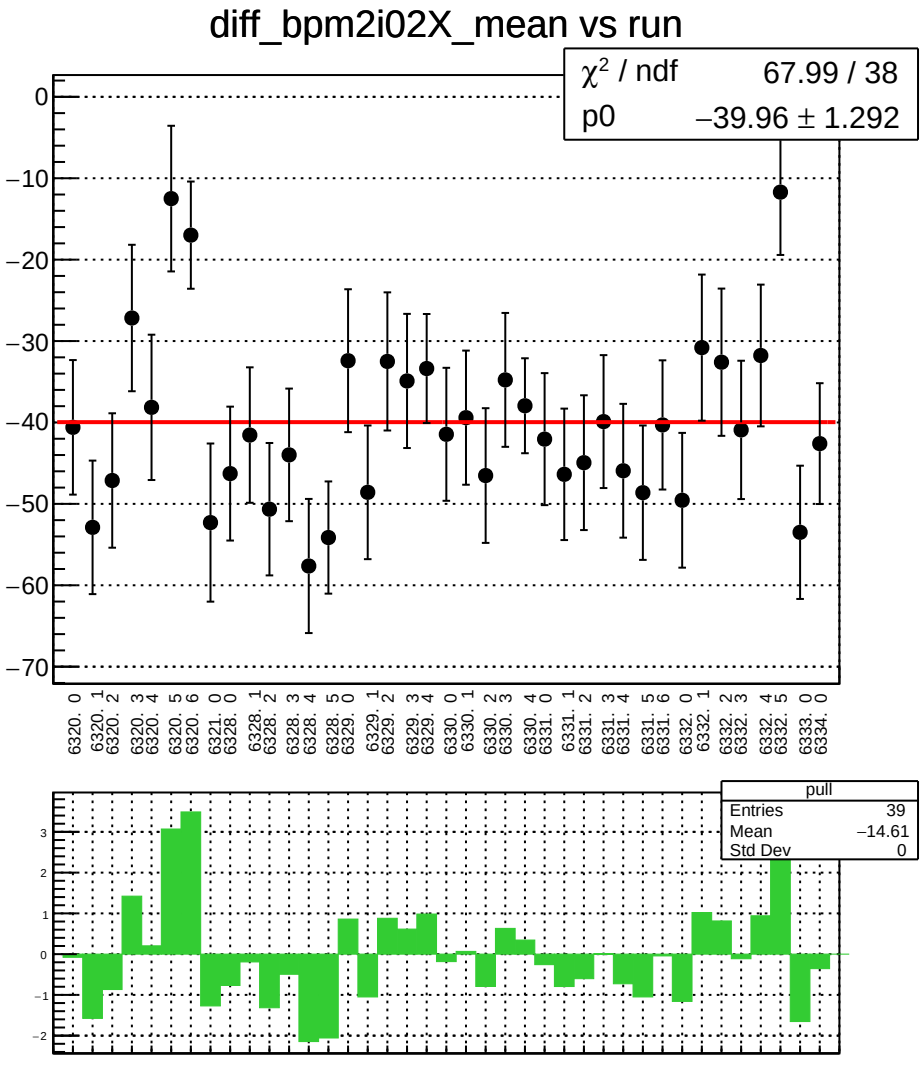

pull1D
Entries 39
Mean −0.0265
Std Dev 0.9657

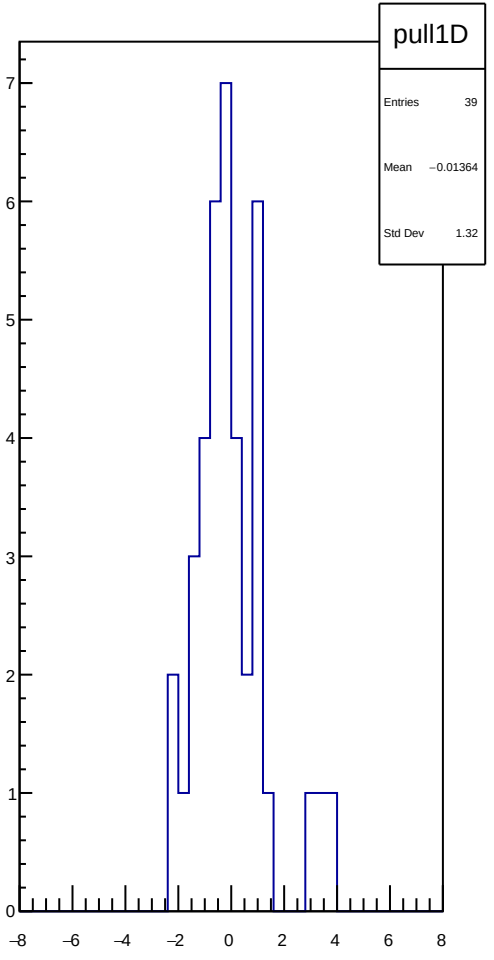

diff_bpm2i01X_rms vs run
χ² / ndf 1353 / 38
p0 724 ± 0.8323
800
780
760
740
720
700
680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

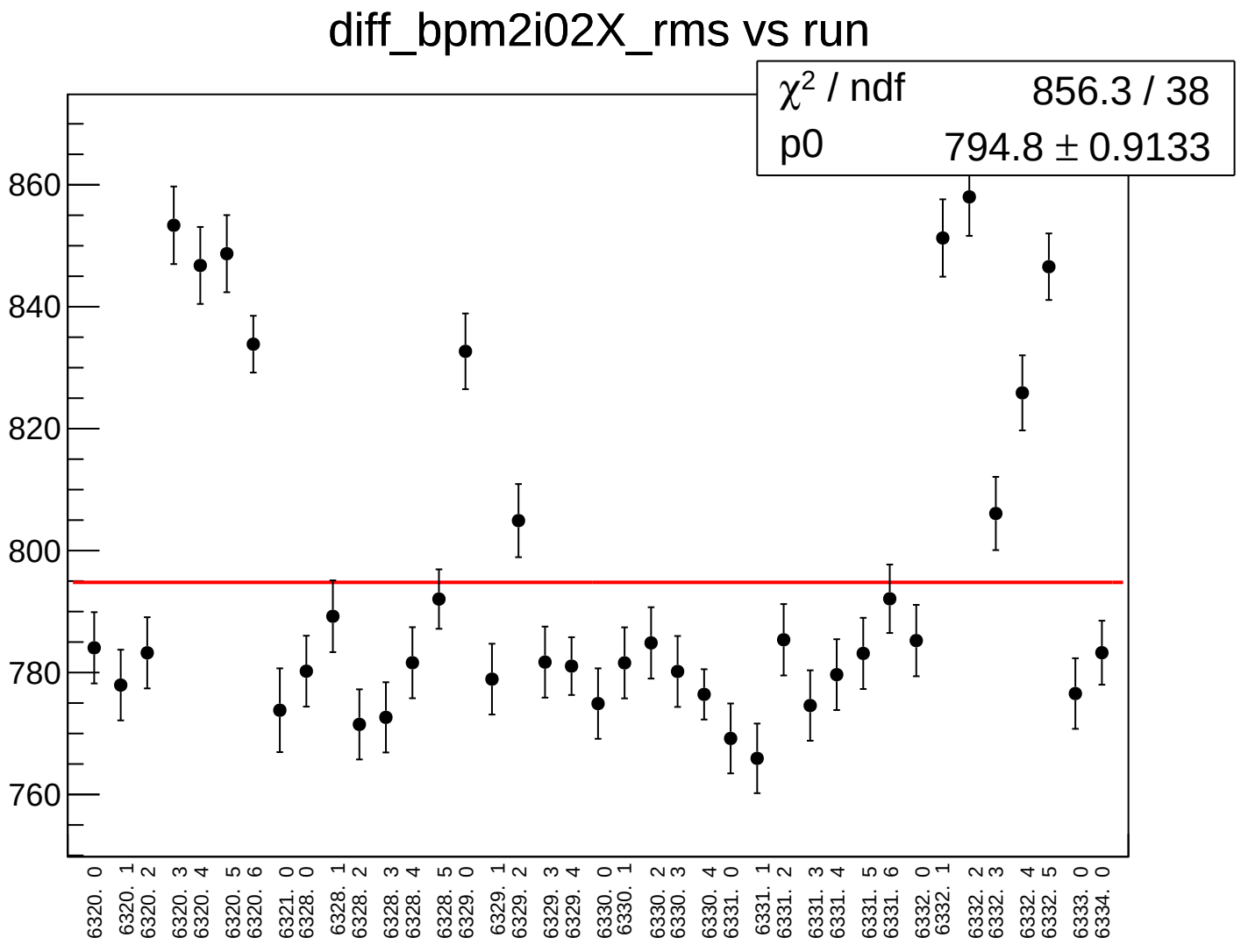

diff_bpm2i01Y_mean vs run
χ² / ndf 26.9 / 38
p0 0.828 ± 1.343
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

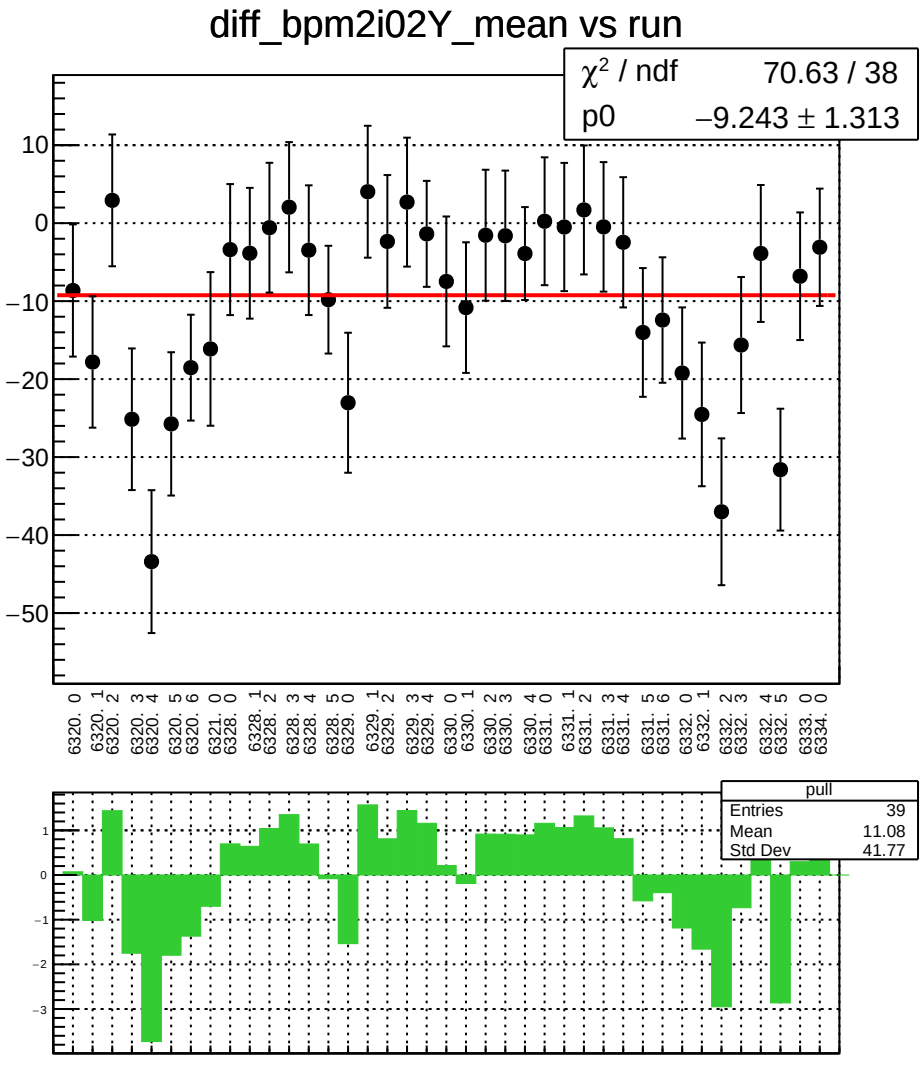

pull1D
Entries 39
Mean −0.03651
Std Dev 0.8297
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

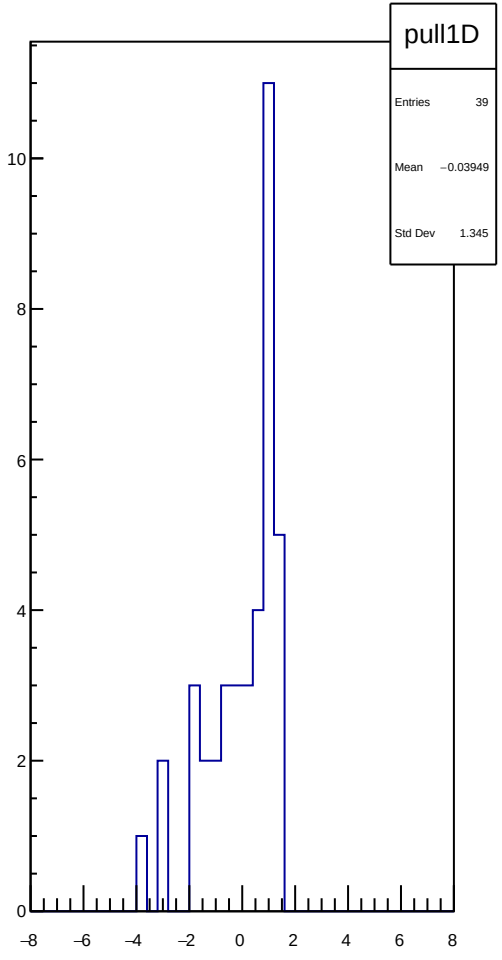

diff_bpm2i01Y_rms vs run
χ² / ndf 859.1 / 38
p0 826.2 ± 0.9494
940
920
900
880
860
840
820
800
780
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

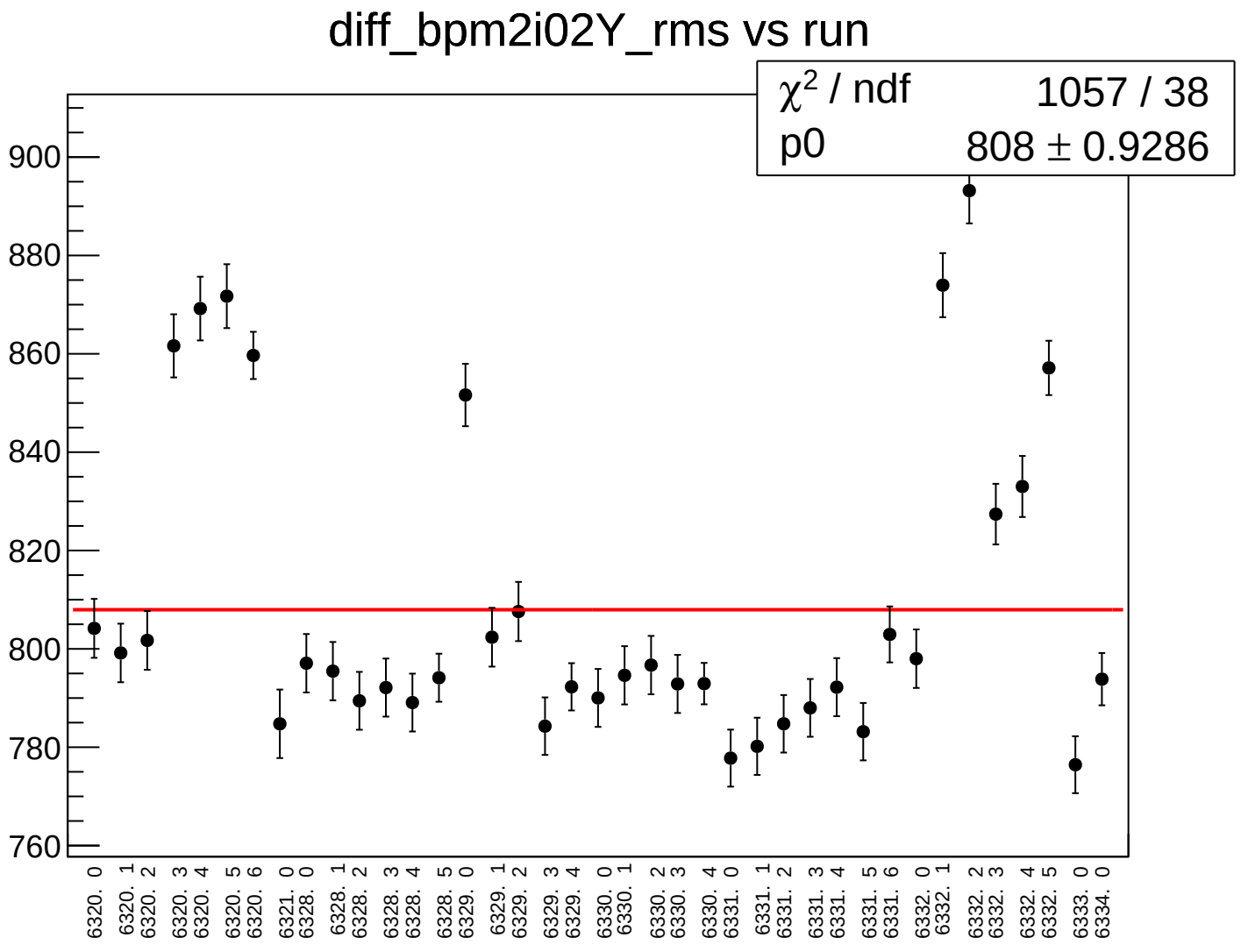

diff_bpm2i02X_mean vs run
χ² / ndf 67.99 / 38
p0 −39.96 ± 1.292
0
−10
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.61
Std Dev 0
3
2
1
0
−1
−2

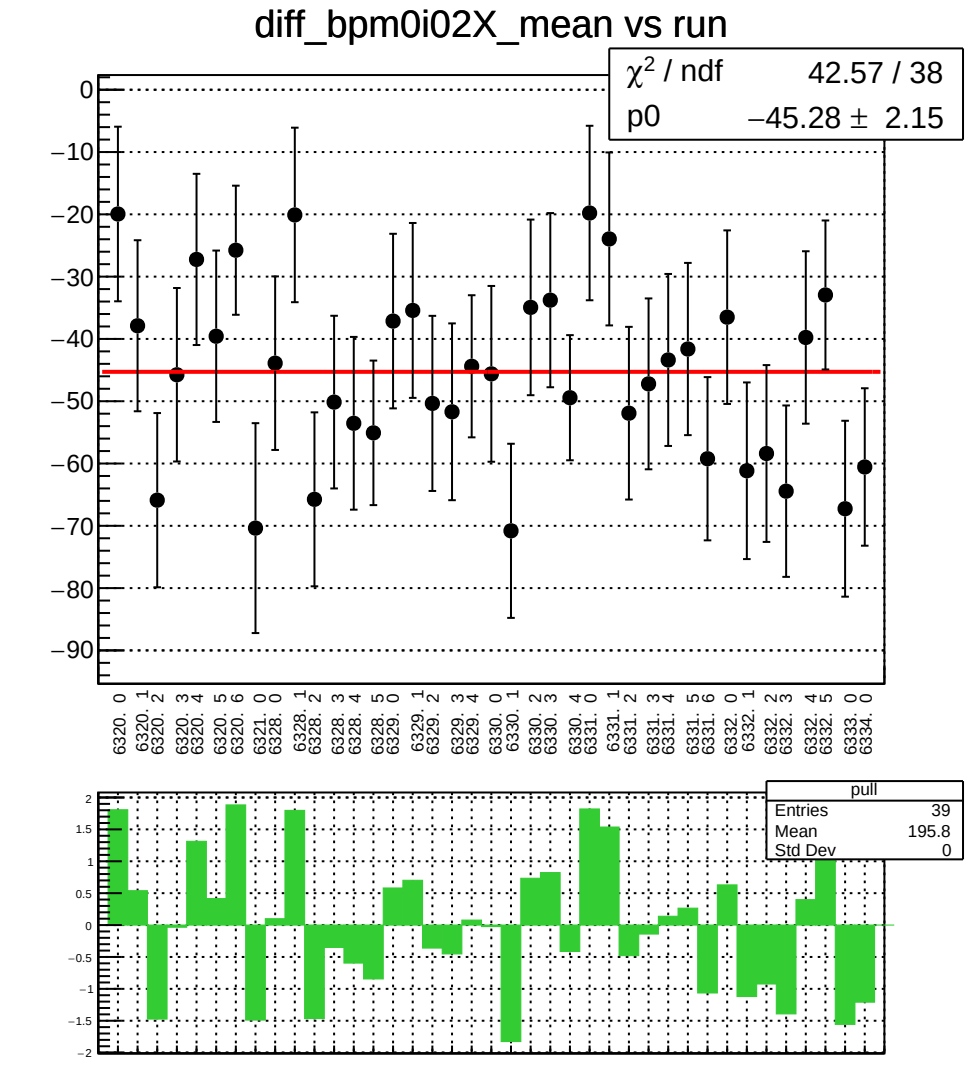

pull1D
Entries 39
Mean −0.01364
Std Dev 1.32
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

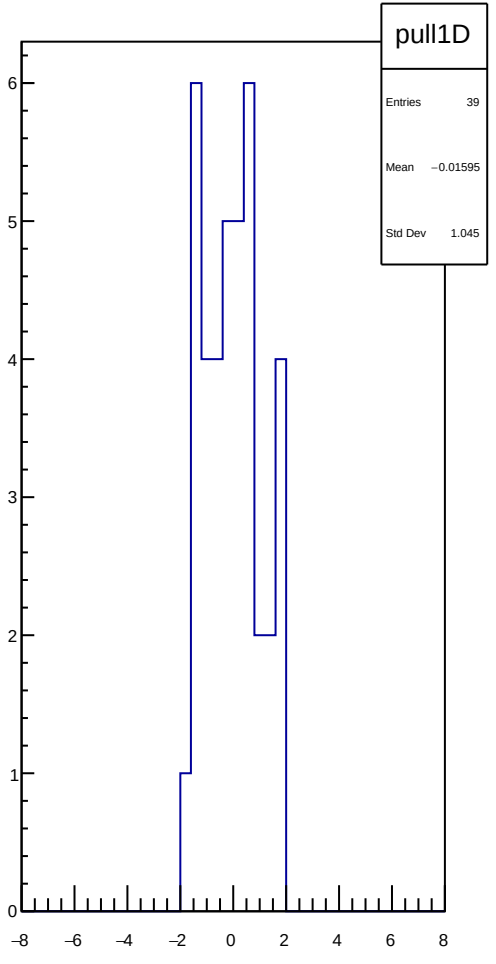

diff_bpm2i02X_rms vs run
χ² / ndf 856.3 / 38
p0 794.8 ± 0.9133
860
840
820
800
780
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

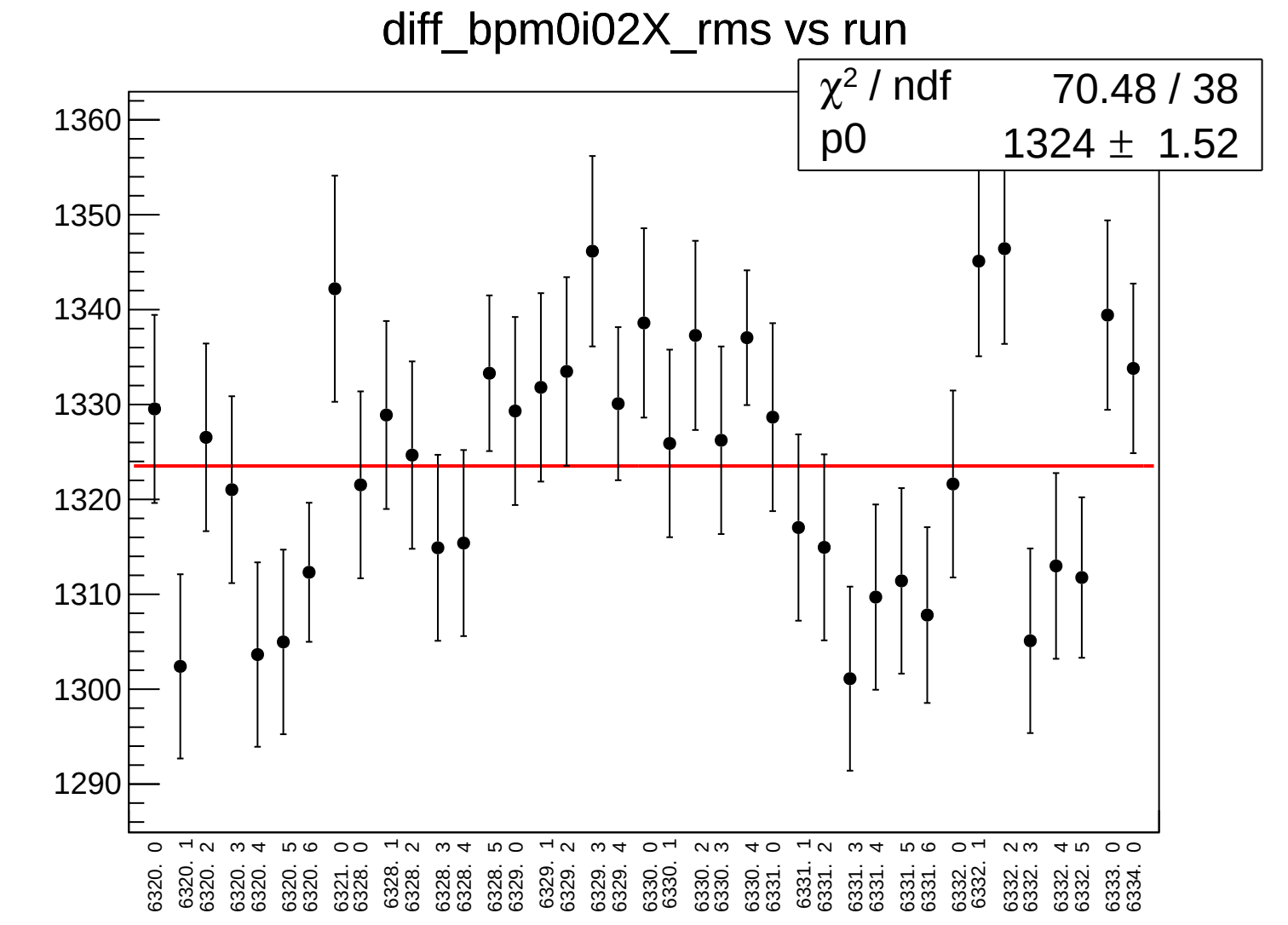

diff_bpm2i02Y_mean vs run
χ² / ndf 70.63 / 38
p0 −9.243 ± 1.313
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.08
Std Dev 41.77
1
0
−1
−2
−3

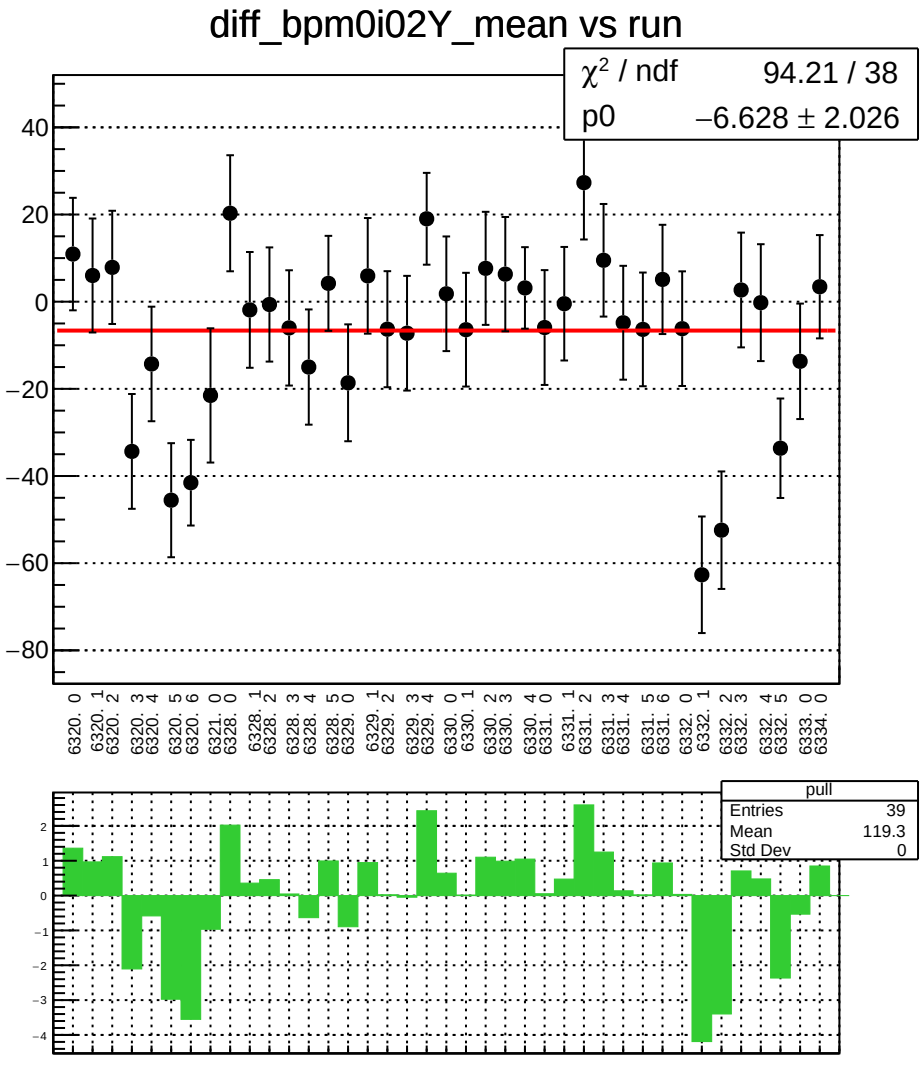

pull1D
Entries 39
Mean −0.03949
Std Dev 1.345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

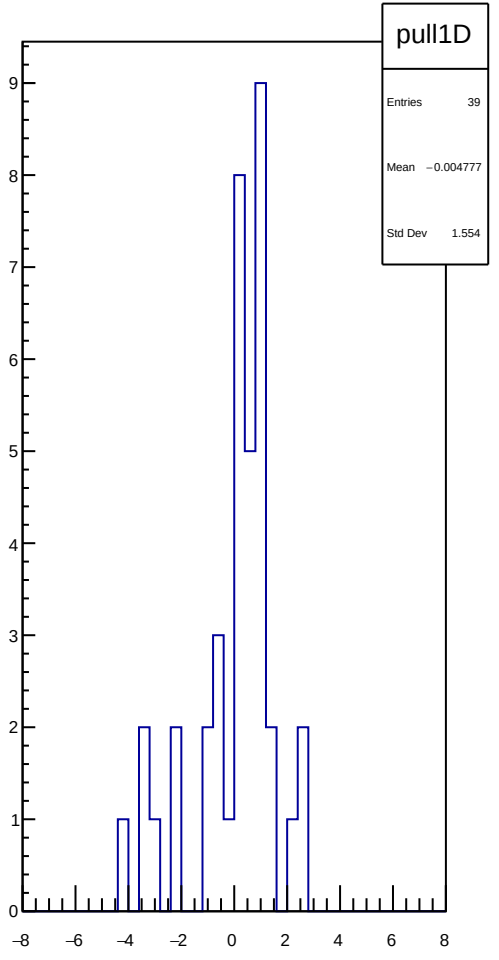

diff_bpm2i02Y_rms vs run
χ² / ndf 1057 / 38
p0 808 ± 0.9286
900
880
860
840
820
800
780
760
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

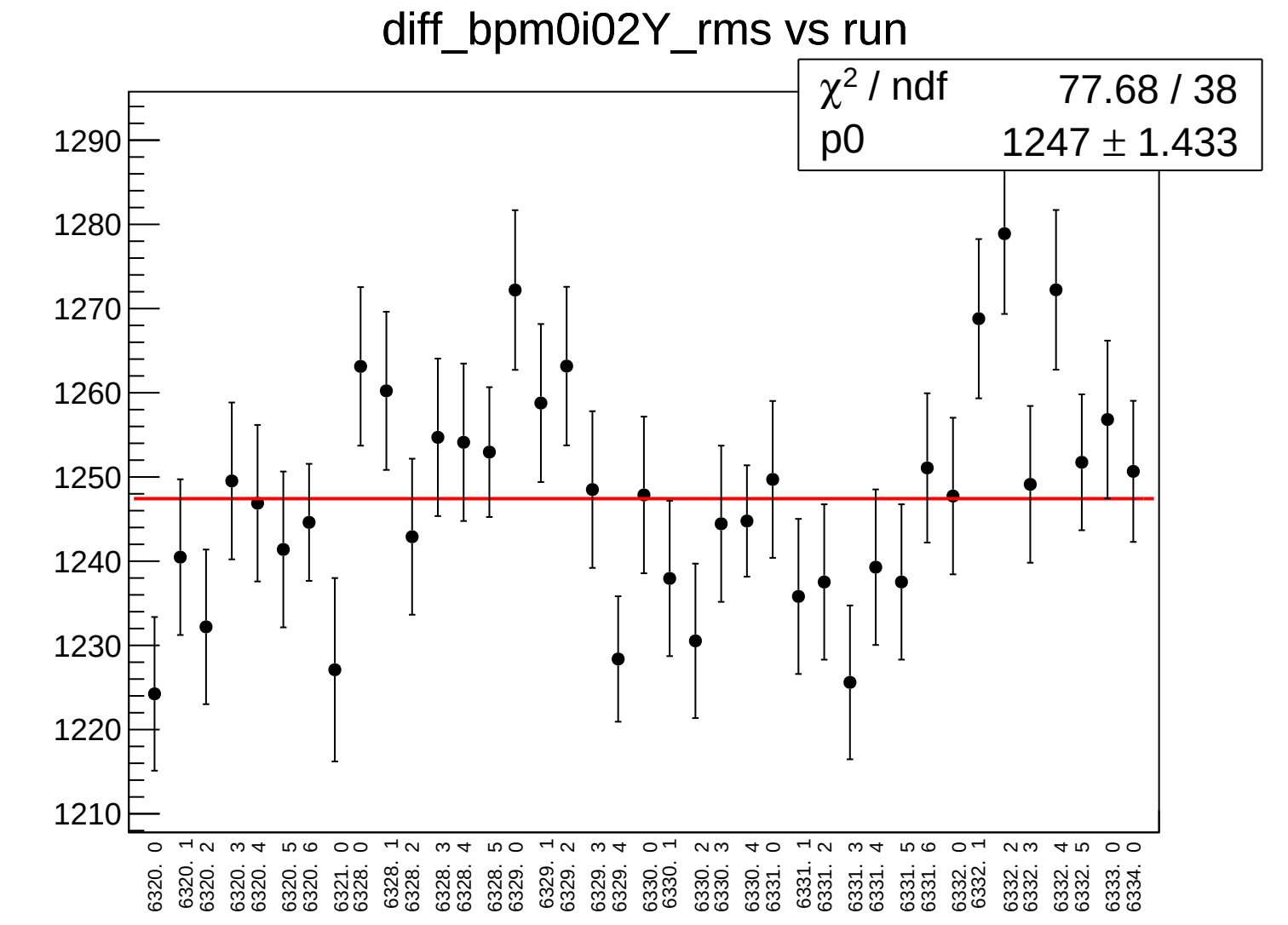

diff_bpm0i02X_mean vs run
χ² / ndf 42.57 / 38
p0 −45.28 ± 2.15
pull
Entries 39
Mean 195.8
Std Dev 0

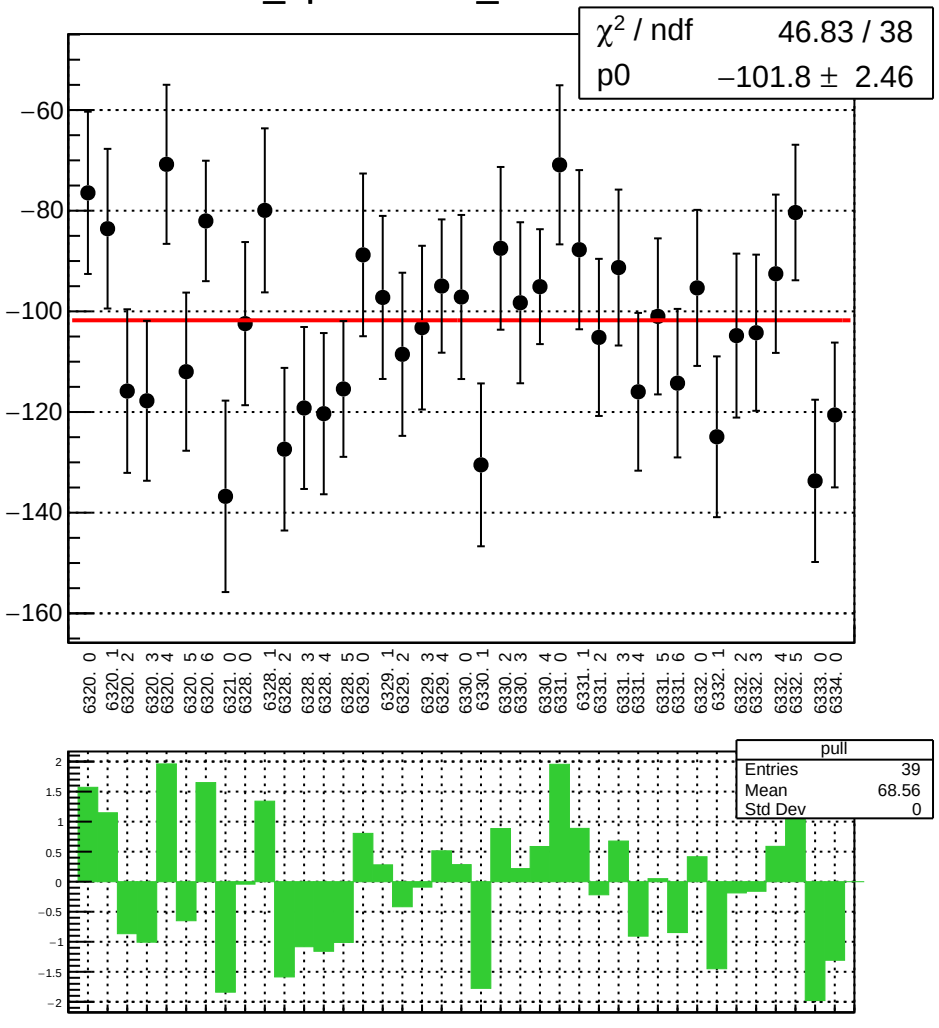

pull1D
Entries 39
Mean −0.01595
Std Dev 1.045

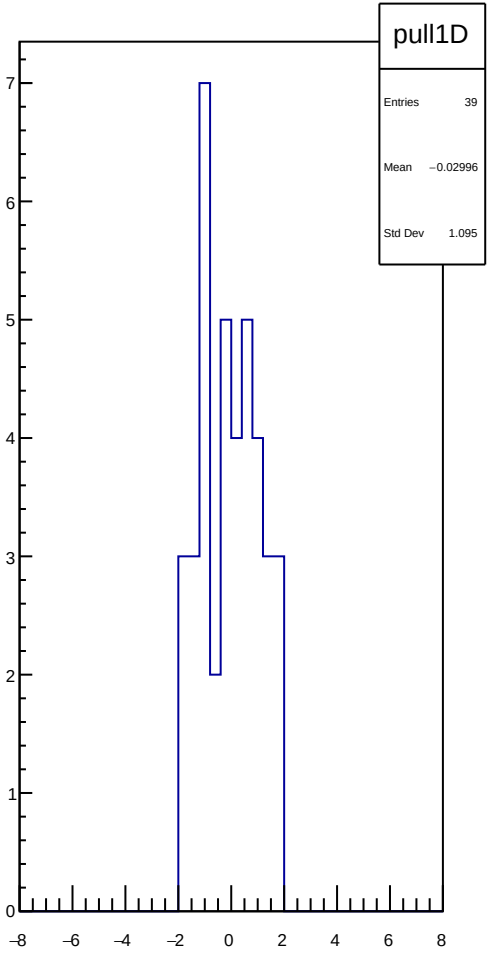

diff_bpm0i02X_rms vs run
χ² / ndf 70.48 / 38
p0 1324 ± 1.52
1360
1350
1340
1330
1320
1310
1300
1290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

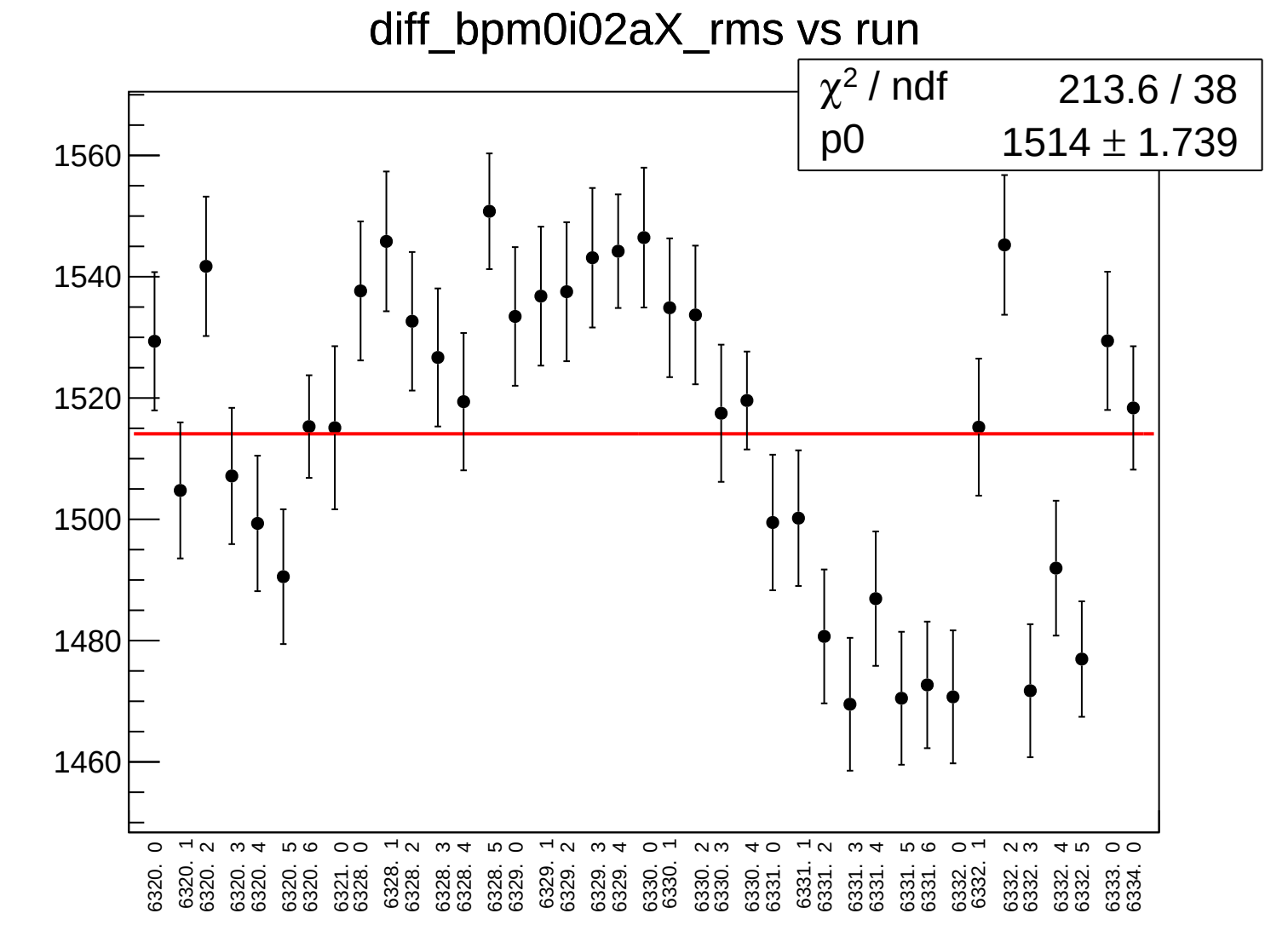

diff_bpm0i02Y_mean vs run
χ² / ndf 94.21 / 38
p0 −6.628 ± 2.026
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.3
Std Dev 0
2
1
0
−1
−2
−3
−4

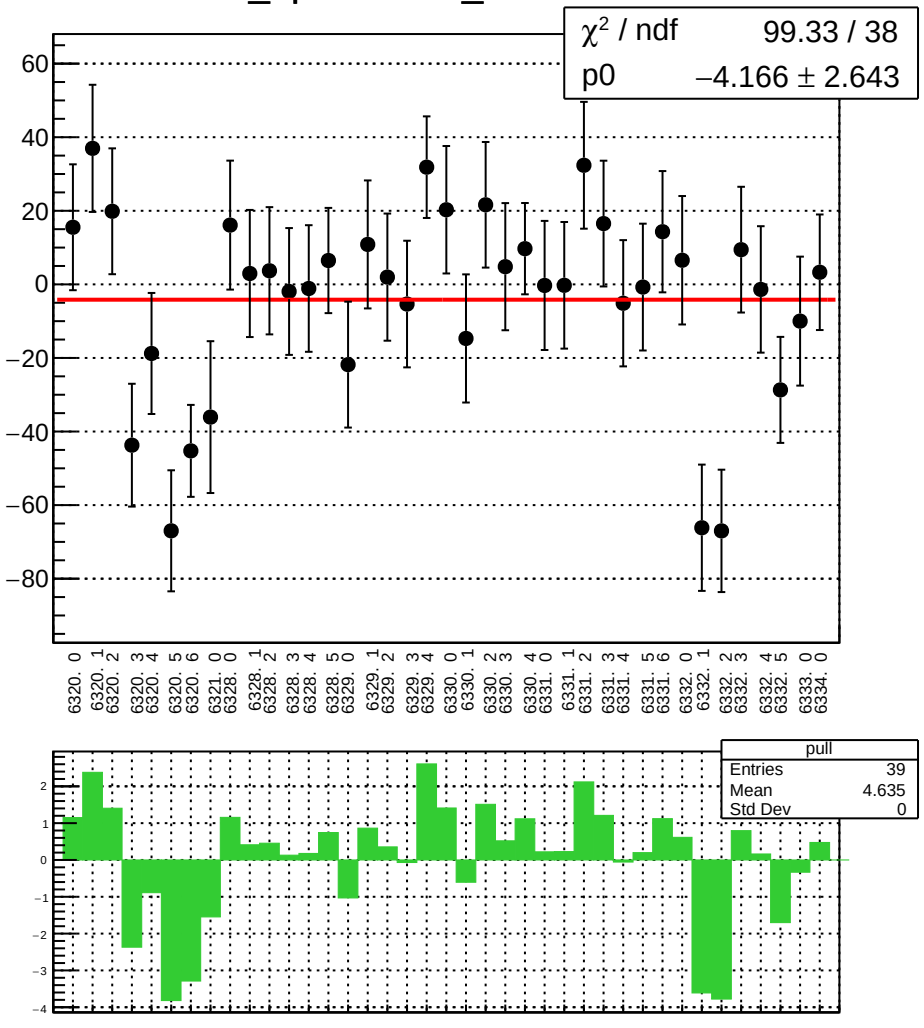

pull1D
Entries 39
Mean −0.004777
Std Dev 1.554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

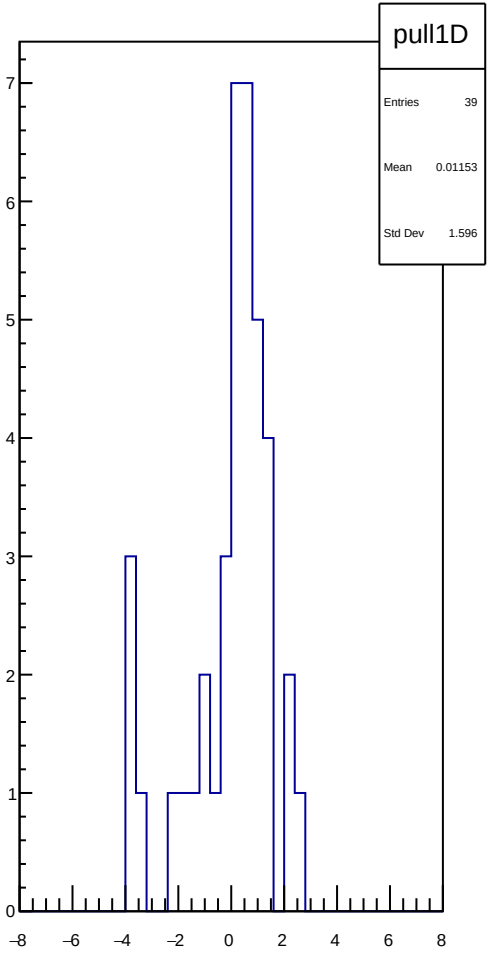

diff_bpm0i02Y_rms vs run
χ² / ndf 77.68 / 38
p0 1247 ± 1.433
1290
1280
1270
1260
1250
1240
1230
1220
1210
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

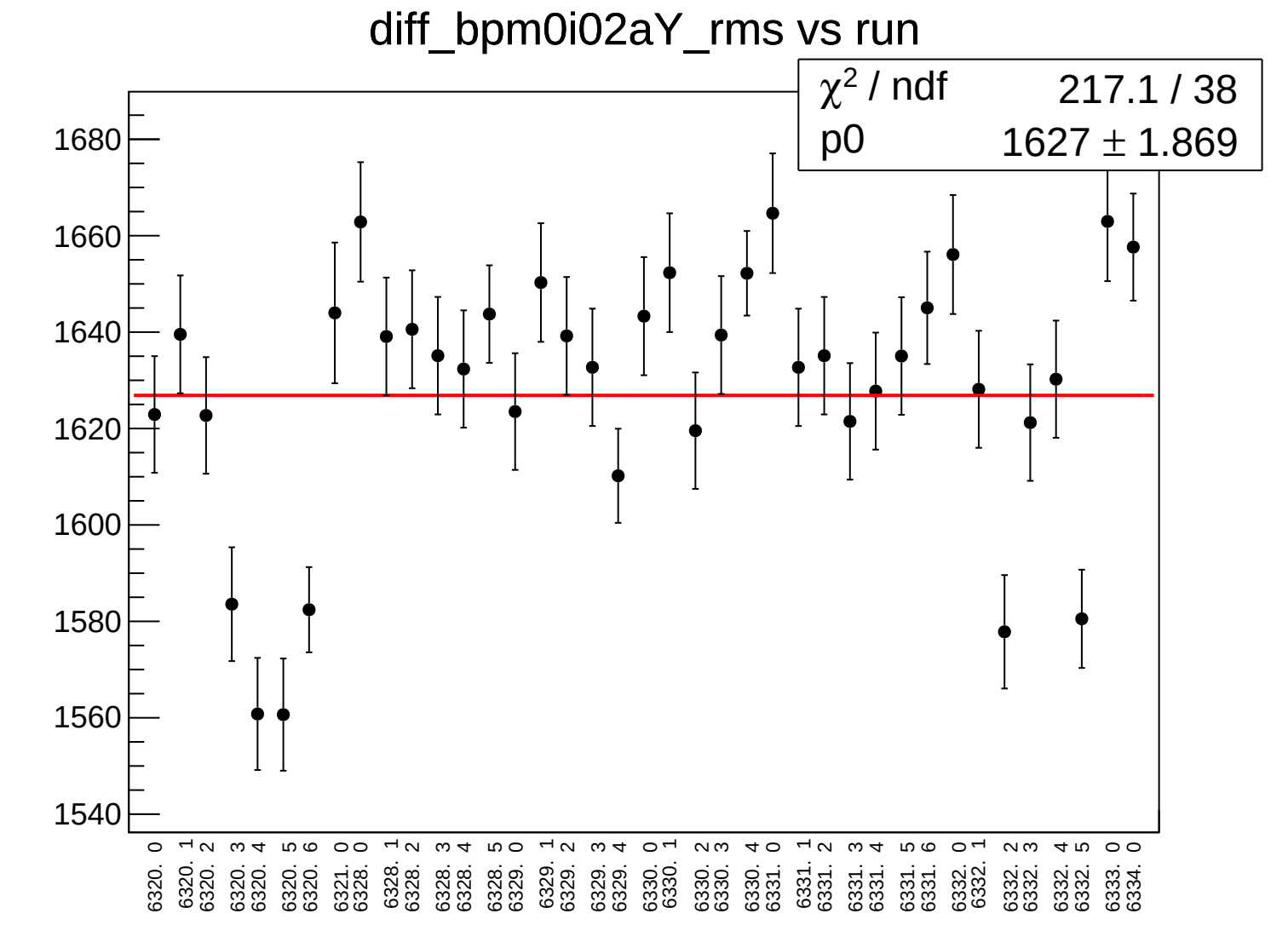

diff_bpm0i02aX_mean vs run
χ² / ndf 46.83 / 38
p0 −101.8 ± 2.46
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

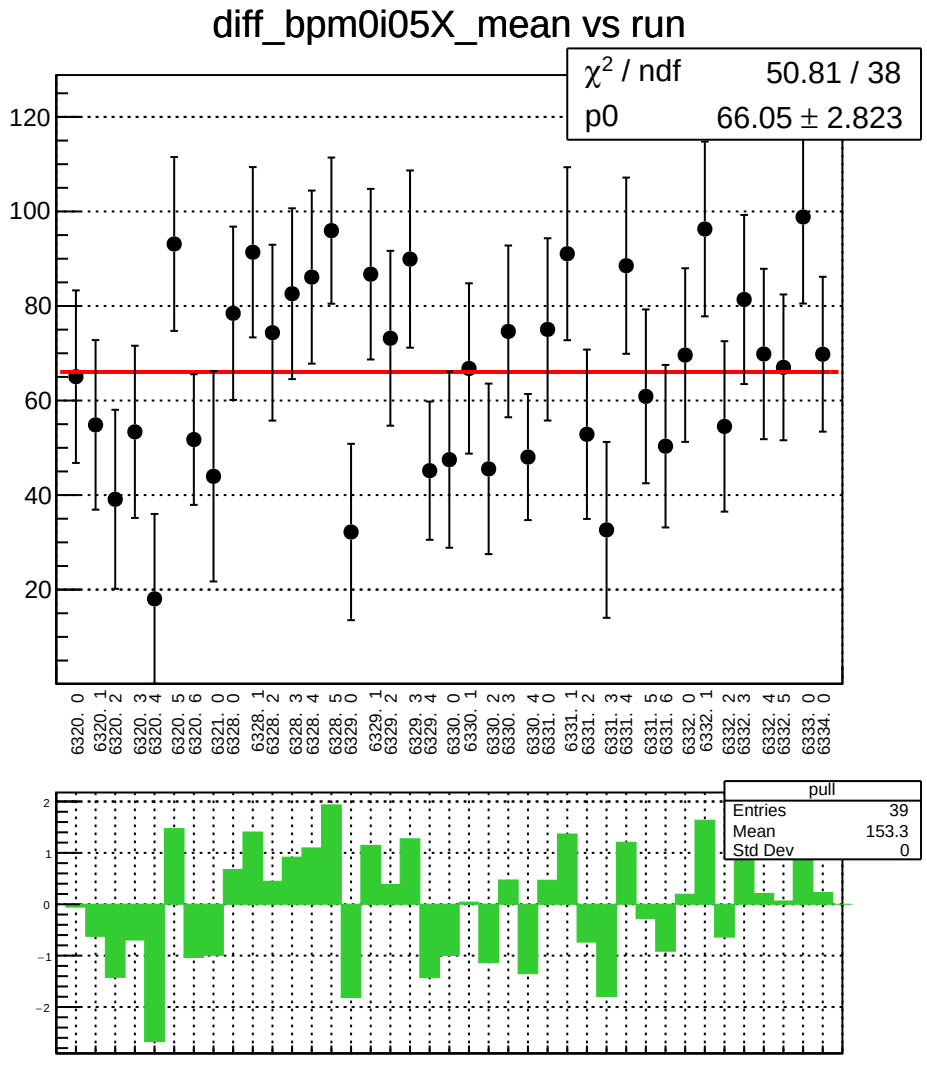

pull1D
Entries 39
Mean −0.02996
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

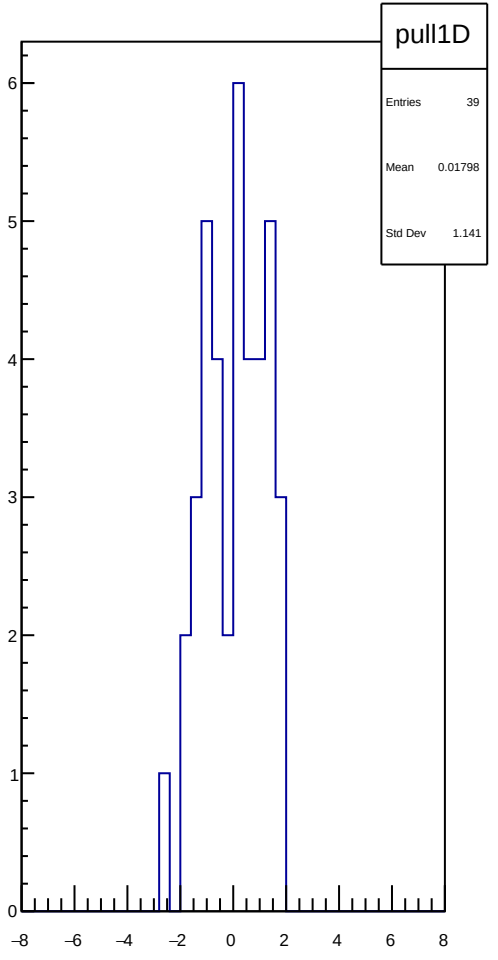

diff_bpm0i02aX_rms vs run
χ² / ndf 213.6 / 38
p0 1514 ± 1.739
1560
1540
1520
1500
1480
1460
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

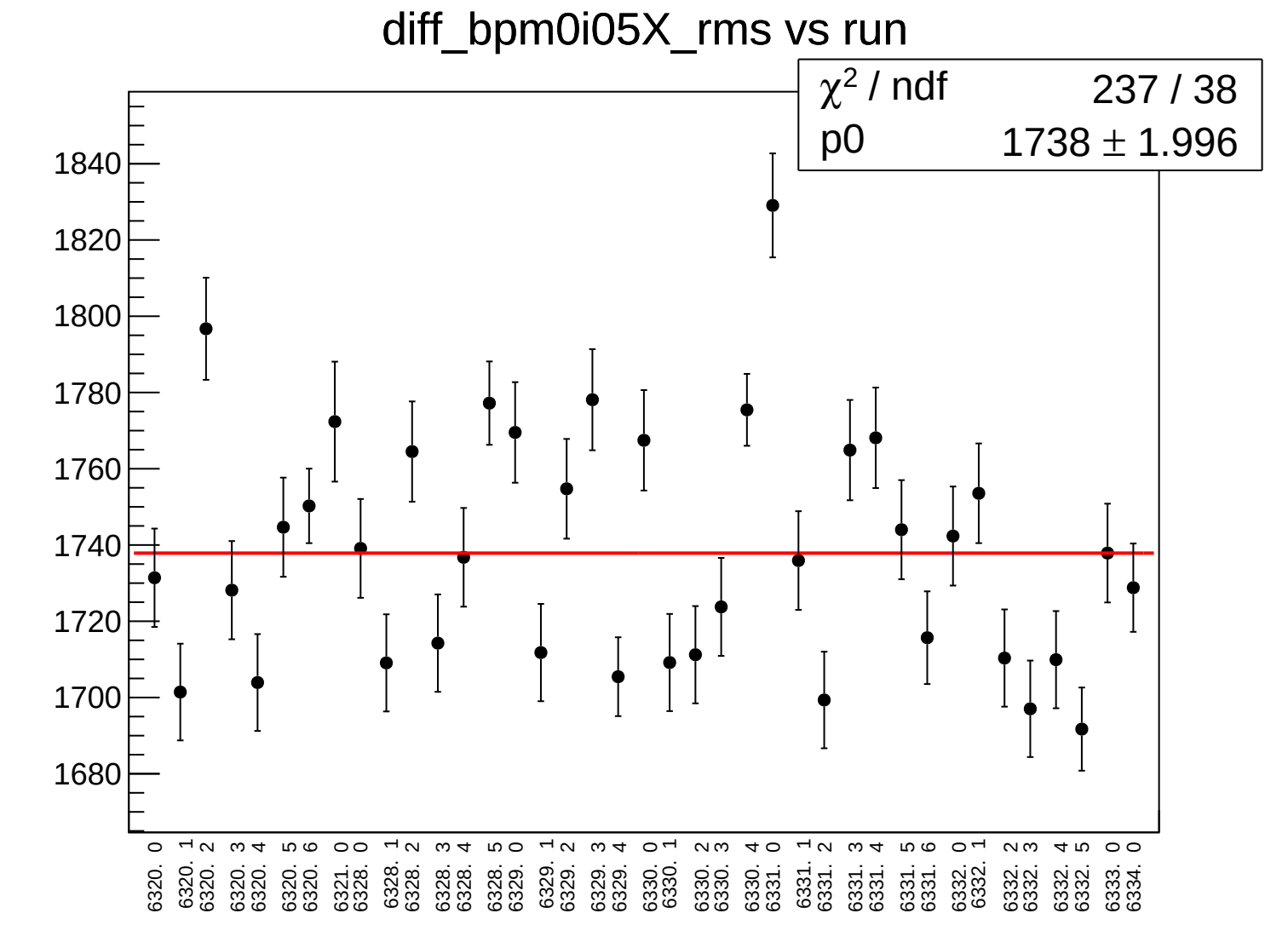

diff_bpm0i02aY_mean vs run
χ² / ndf 99.33 / 38
p0 −4.166 ± 2.643
pull
Entries 39
Mean 4.635
Std Dev 0

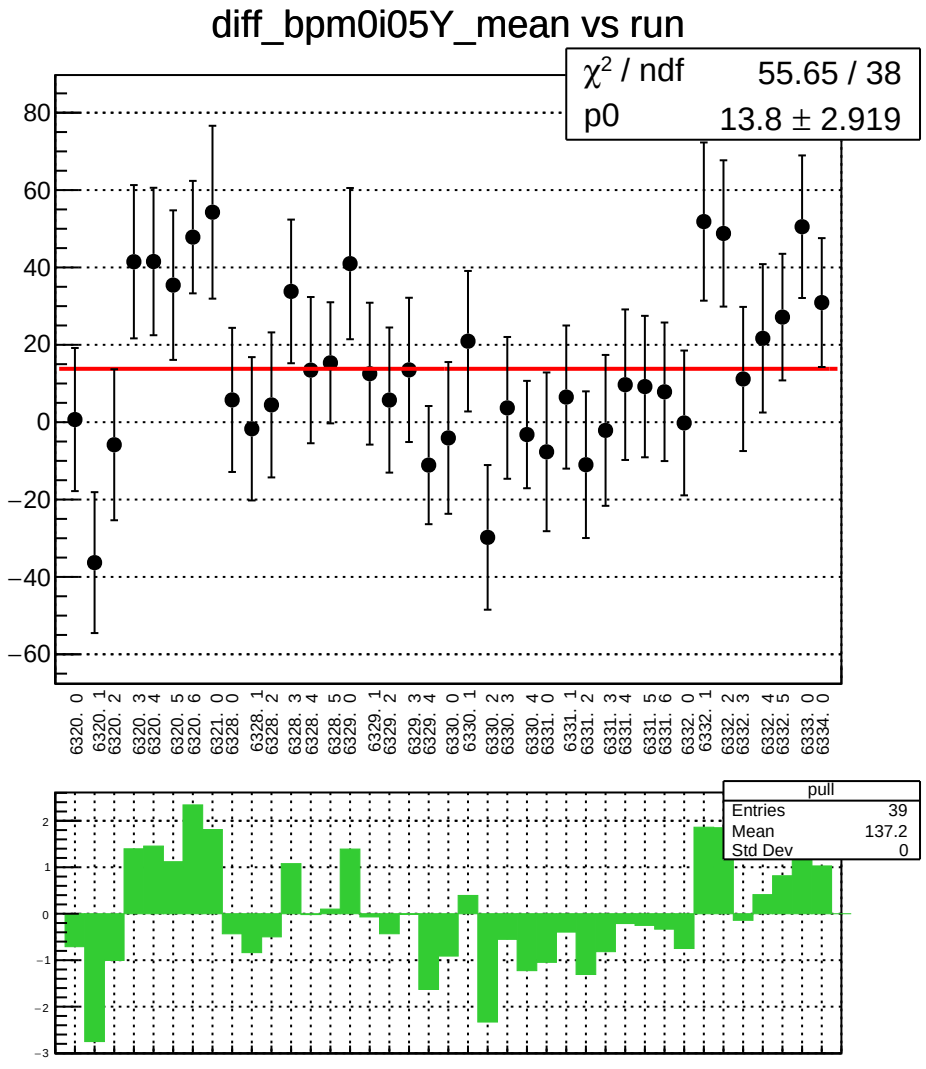

pull1D
Entries 39
Mean 0.01153
Std Dev 1.596

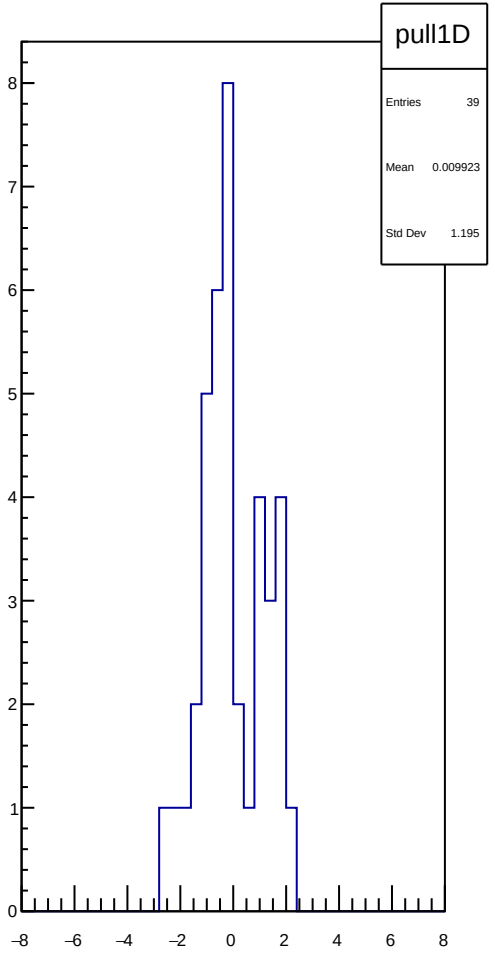

diff_bpm0i02aY_rms vs run
χ² / ndf 217.1 / 38
p0 1627 ± 1.869
1680
1660
1640
1620
1600
1580
1560
1540
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

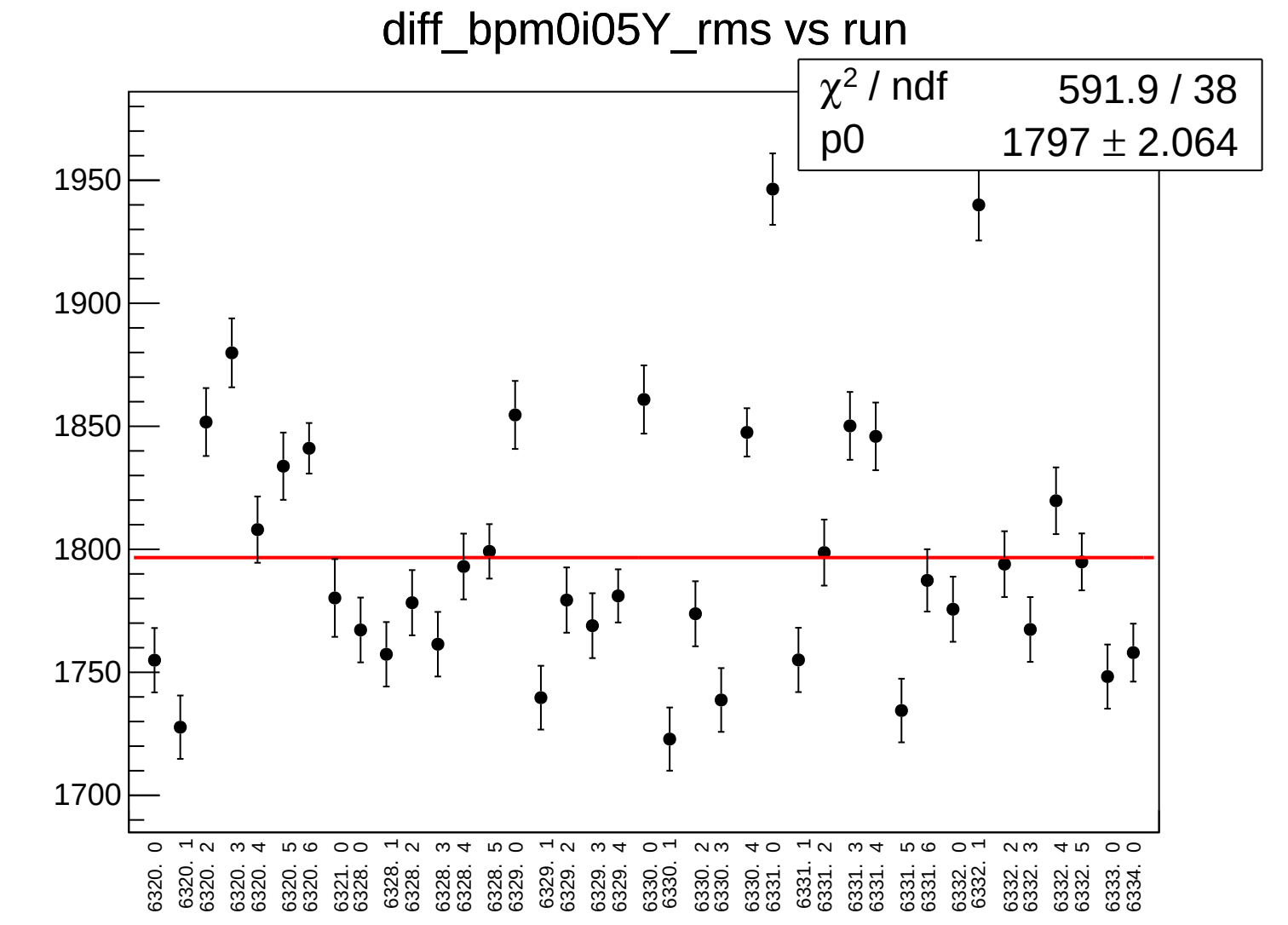

diff_bpm0i05X_mean vs run
χ² / ndf 50.81 / 38
p0 66.05 ± 2.823
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 153.3
Std Dev 0
2
1
0
−1
−2

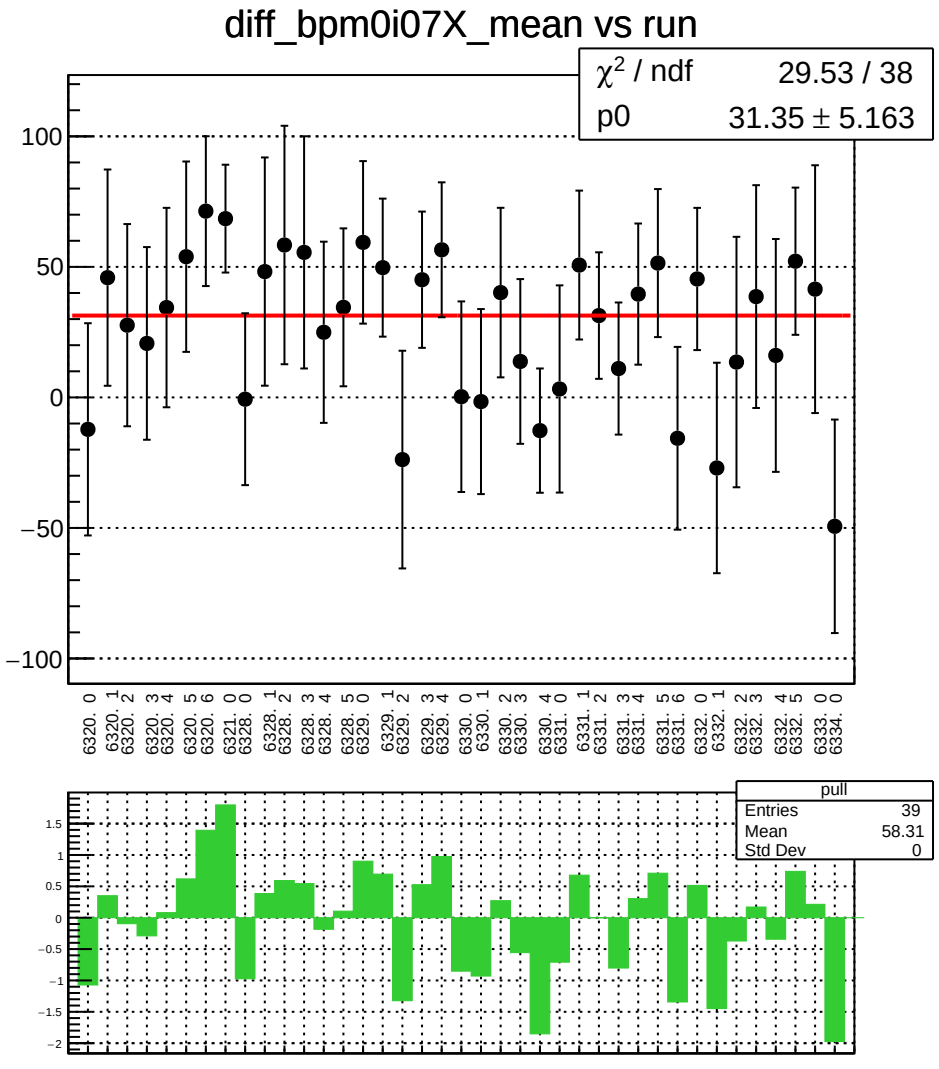

pull1D
Entries 39
Mean 0.01798
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

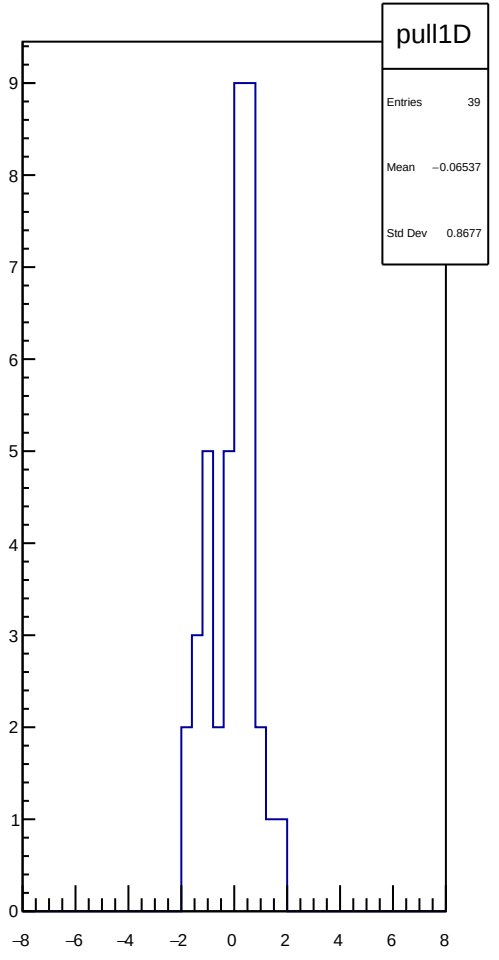

diff_bpm0i05X_rms vs run
χ² / ndf 237 / 38
p0 1738 ± 1.996
1840
1820
1800
1780
1760
1740
1720
1700
1680
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

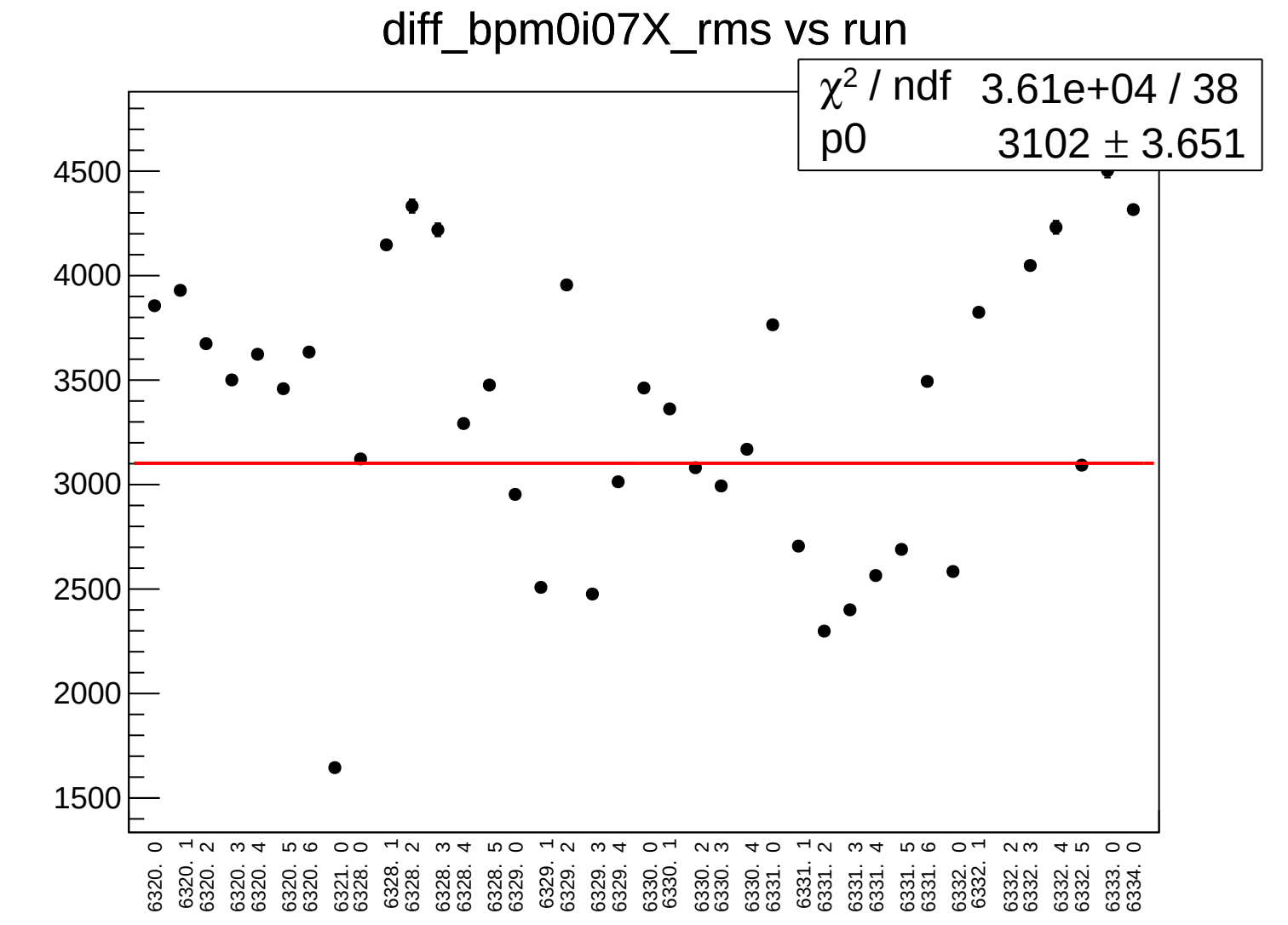

diff_bpm0i05Y_mean vs run
χ² / ndf 55.65 / 38
p0 13.8 ± 2.919
pull
Entries 39
Mean 137.2
Std Dev 0

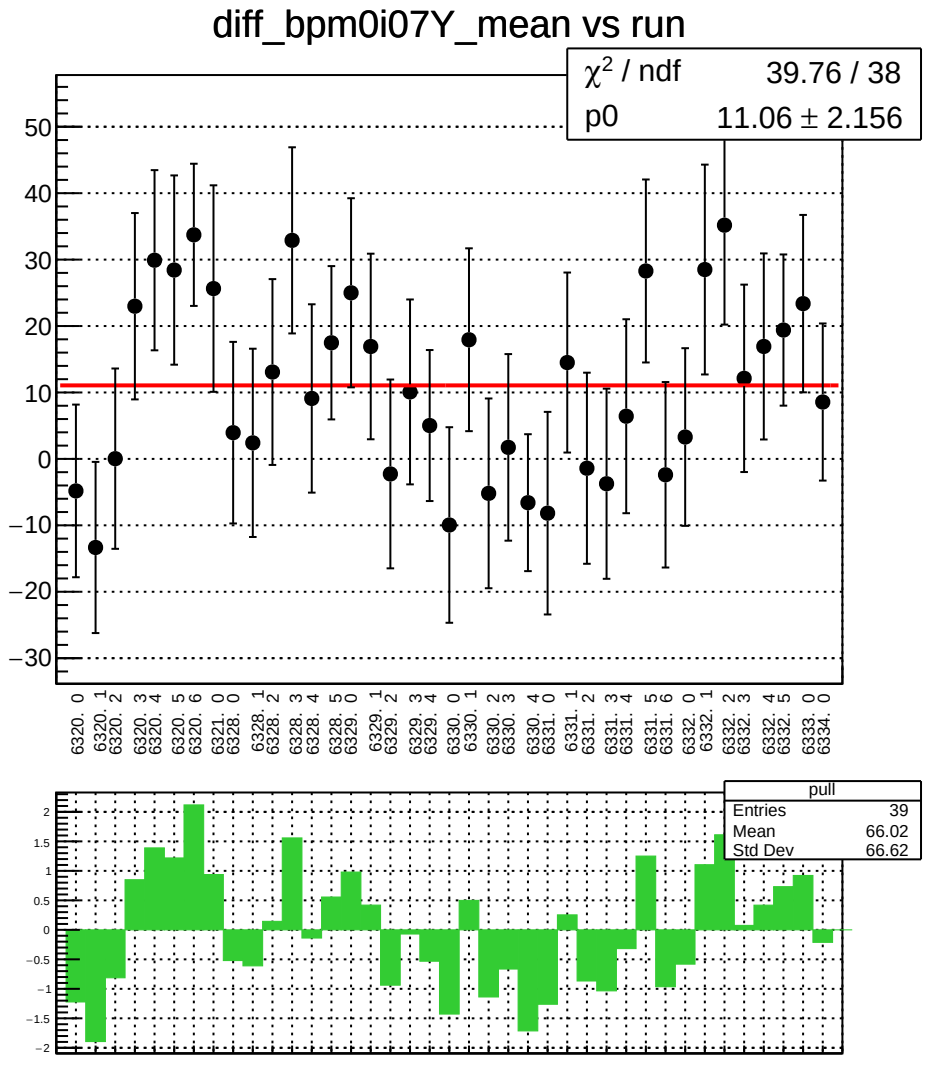

pull1D
Entries 39
Mean 0.009923
Std Dev 1.195

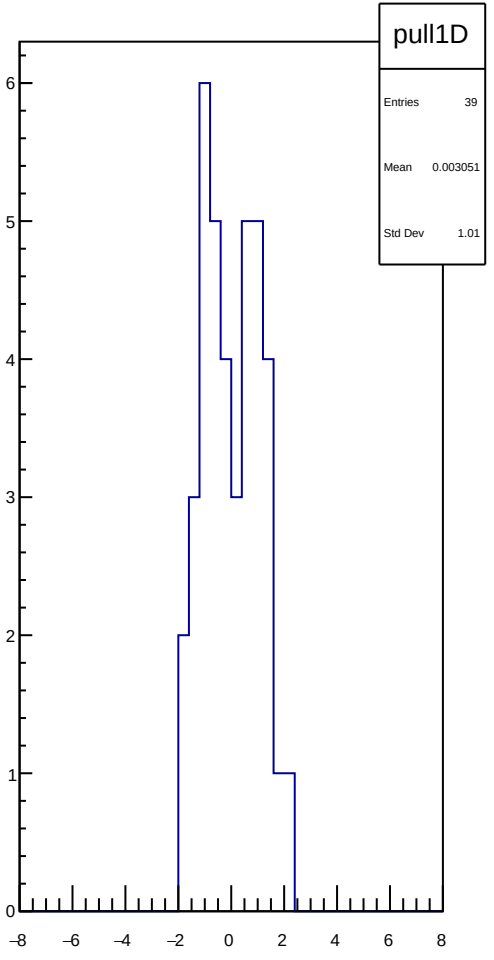

diff_bpm0i05Y_rms vs run
χ² / ndf 591.9 / 38
p0 1797 ± 2.064
1950
1900
1850
1800
1750
1700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

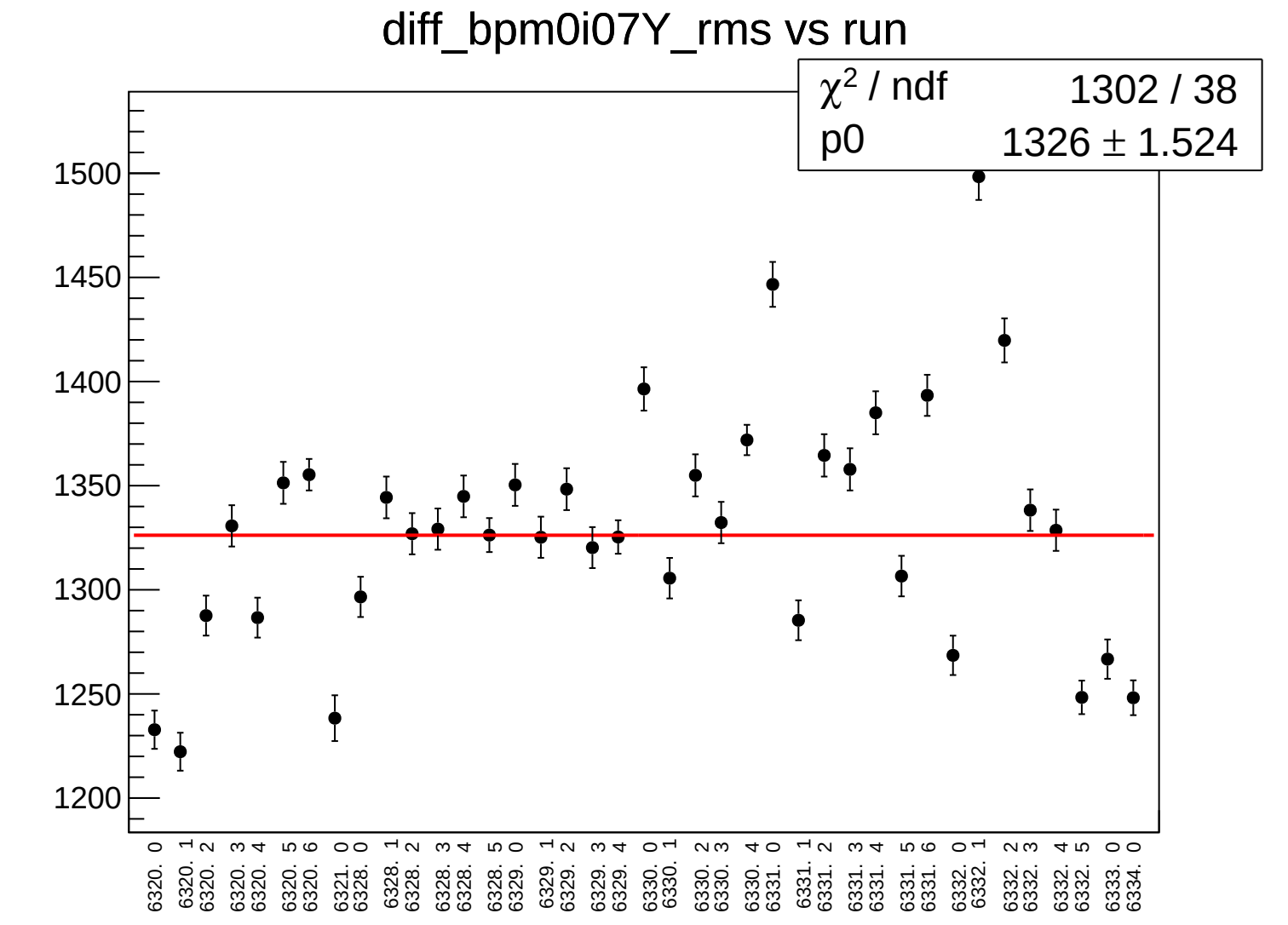

diff_bpm0i07X_mean vs run
χ² / ndf 29.53 / 38
p0 31.35 ± 5.163
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

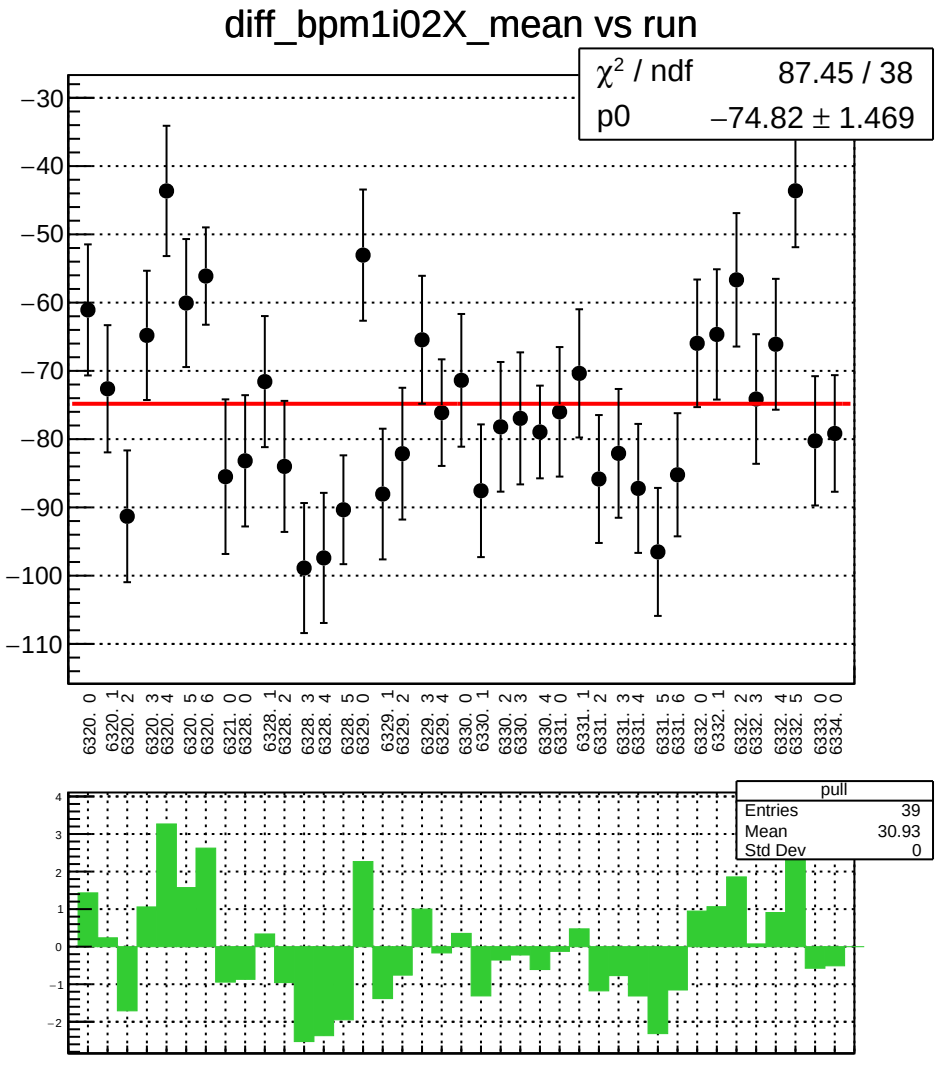

pull1D
Entries 39
Mean −0.06537
Std Dev 0.8677
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

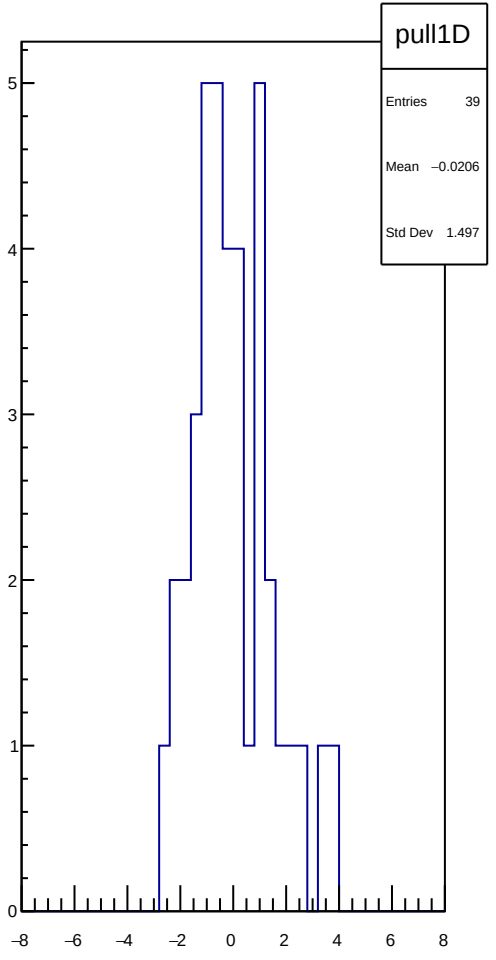

diff_bpm0i07X_rms vs run
χ² / ndf 3.61e+04 / 38
p0 3102 ± 3.651
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

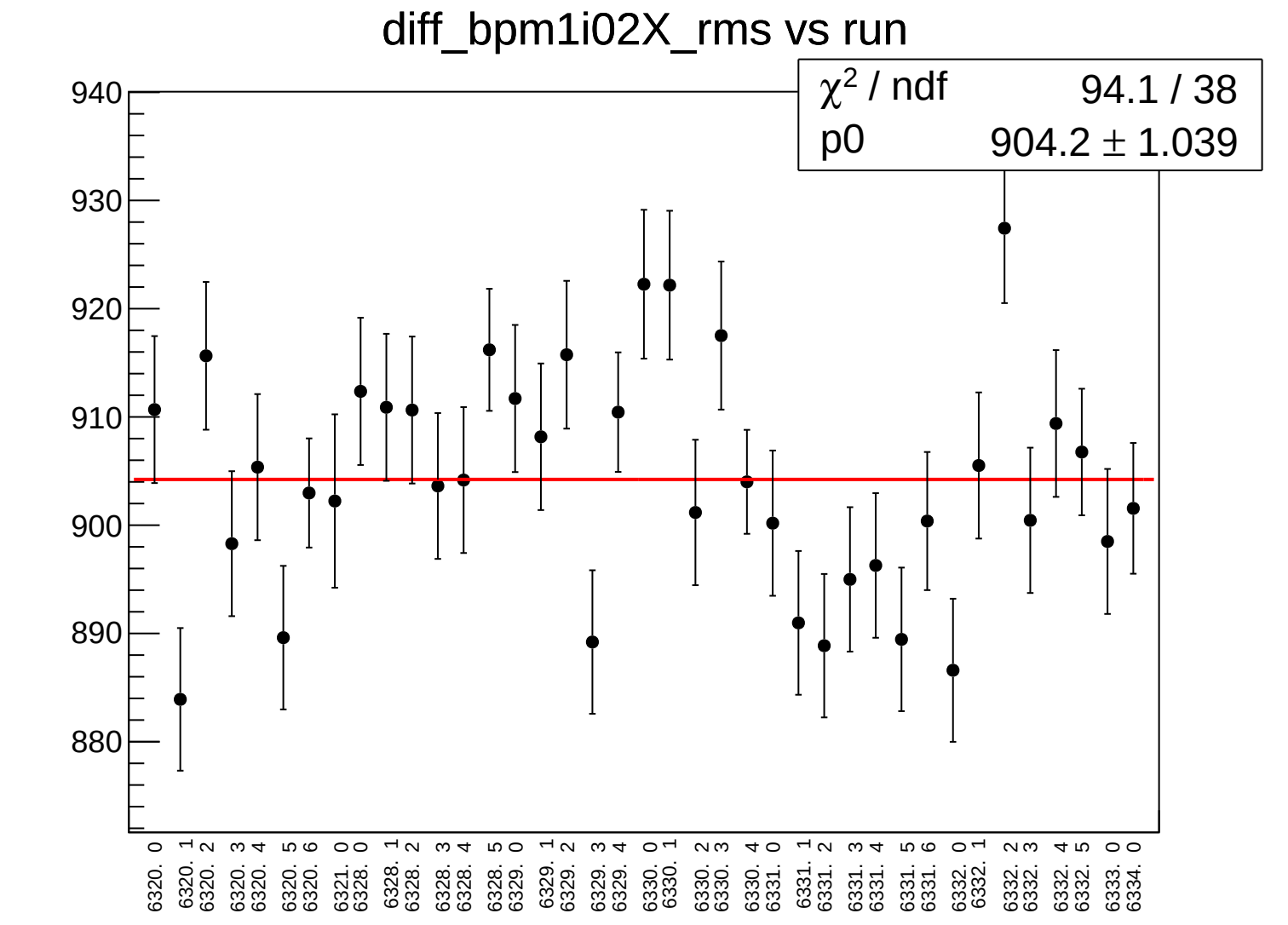

diff_bpm0i07Y_mean vs run
χ² / ndf 39.76 / 38
p0 11.06 ± 2.156
50
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 66.02
Std Dev 66.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

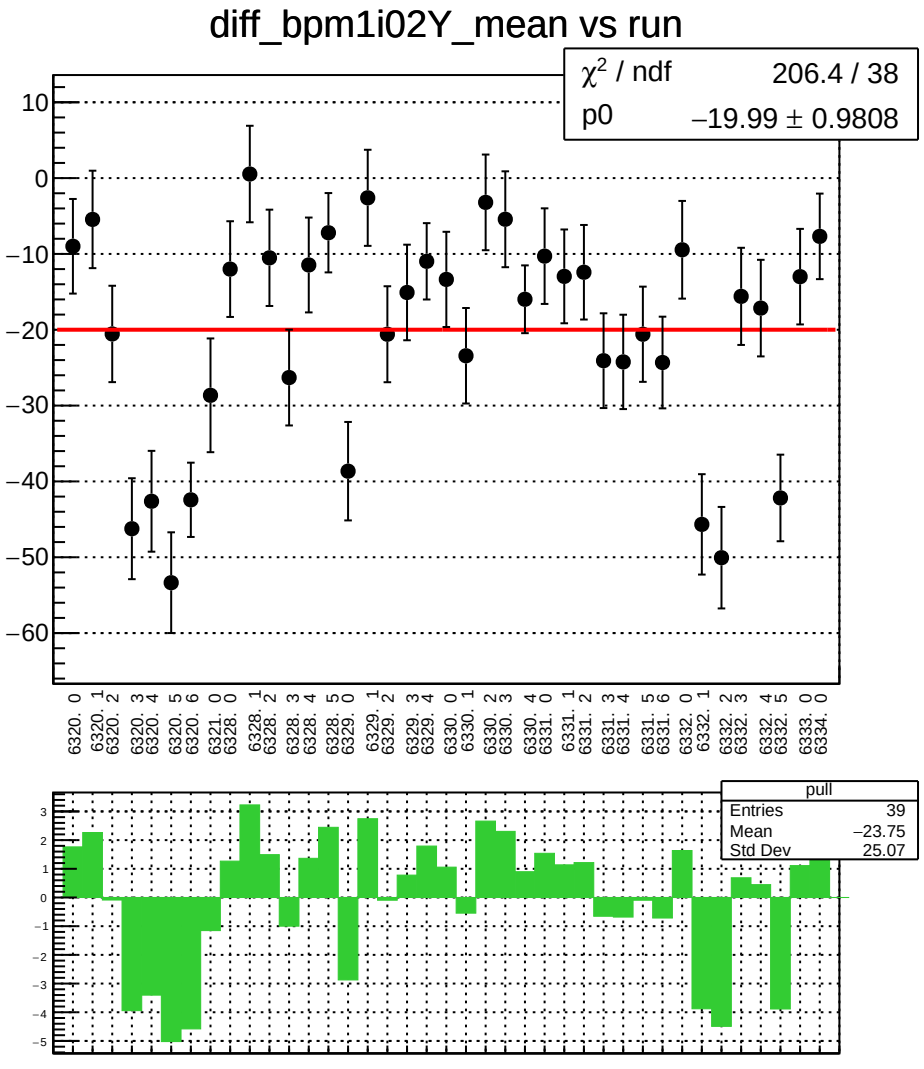

pull1D
Entries 39
Mean 0.003051
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

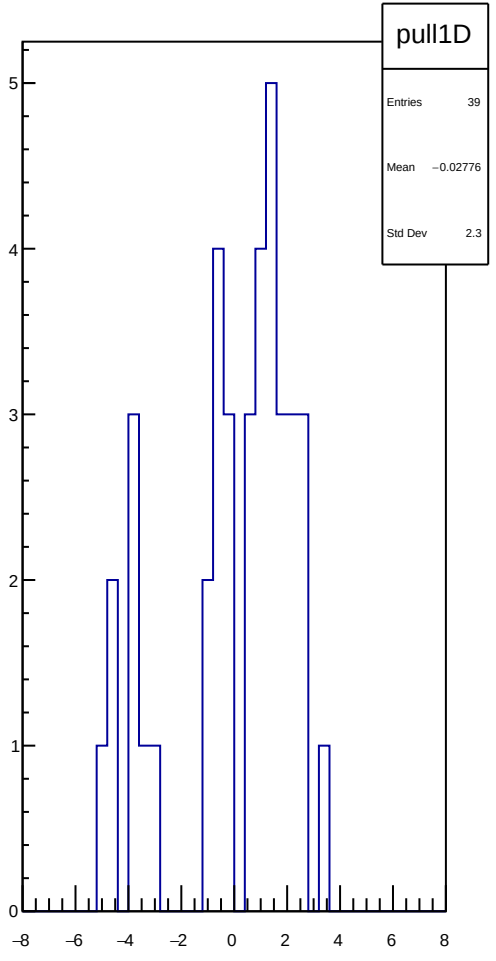

diff_bpm0i07Y_rms vs run
χ² / ndf 1302 / 38
p0 1326 ± 1.524
1500
1450
1400
1350
1300
1250
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

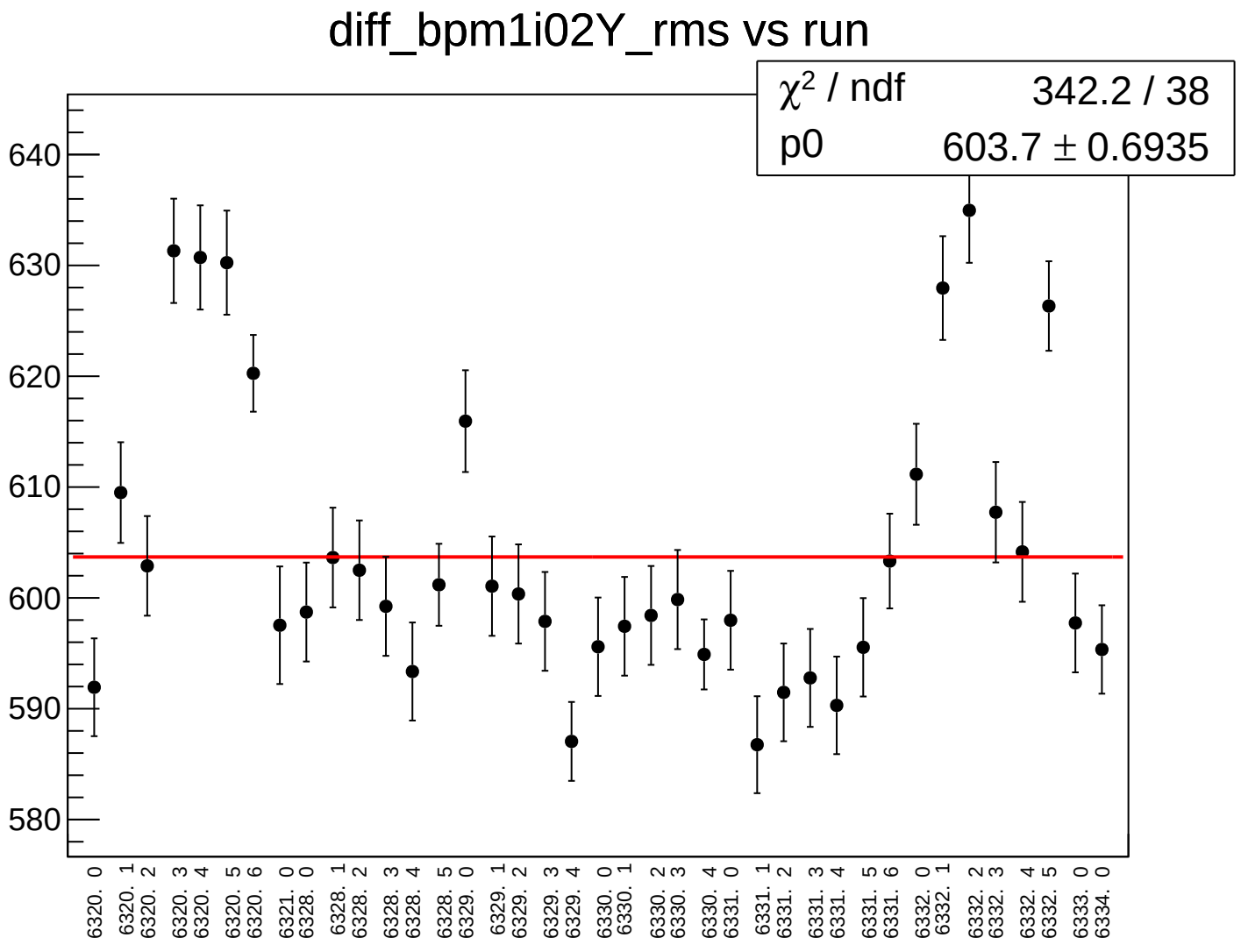

diff_bpm1i02X_mean vs run
χ² / ndf 87.45 / 38
p0 −74.82 ± 1.469
−30
−40
−50
−60
−70
−80
−90
−100
−110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.93
Std Dev 0
4
3
2
1
0
−1
−2

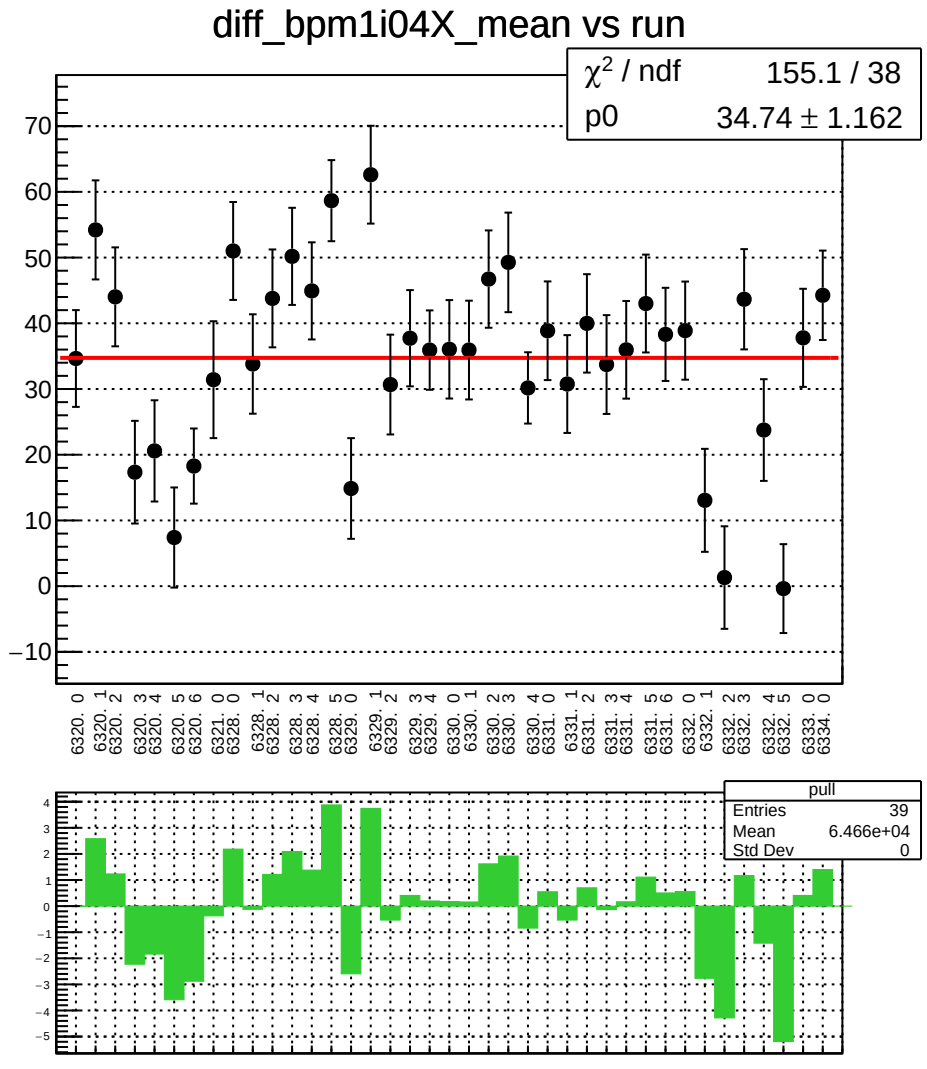

pull1D
Entries 39
Mean −0.0206
Std Dev 1.497
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

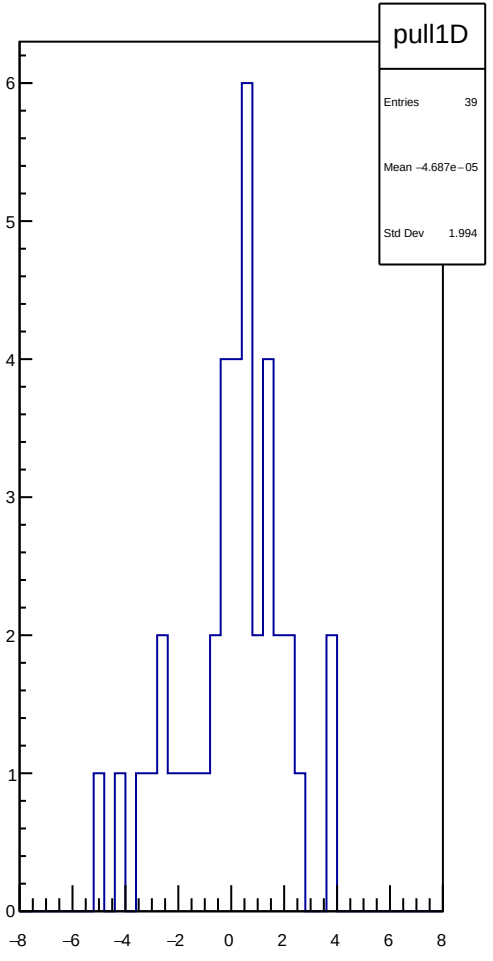

diff_bpm1i02X_rms vs run
χ² / ndf 94.1 / 38
p0 904.2 ± 1.039
940
930
920
910
900
890
880
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

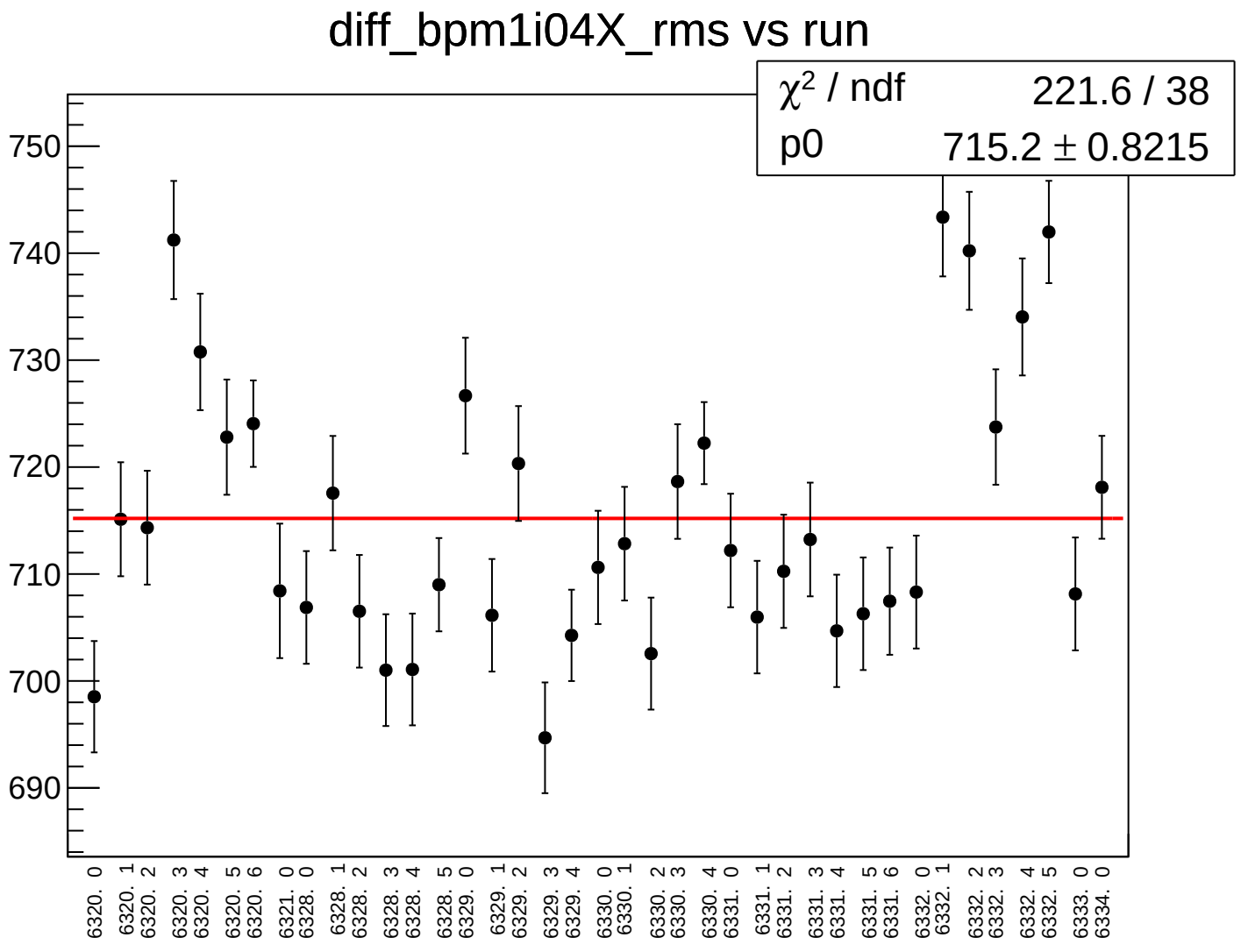

diff_bpm1i02Y_mean vs run
χ² / ndf 206.4 / 38
p0 −19.99 ± 0.9808
pull
Entries 39
Mean −23.75
Std Dev 25.07

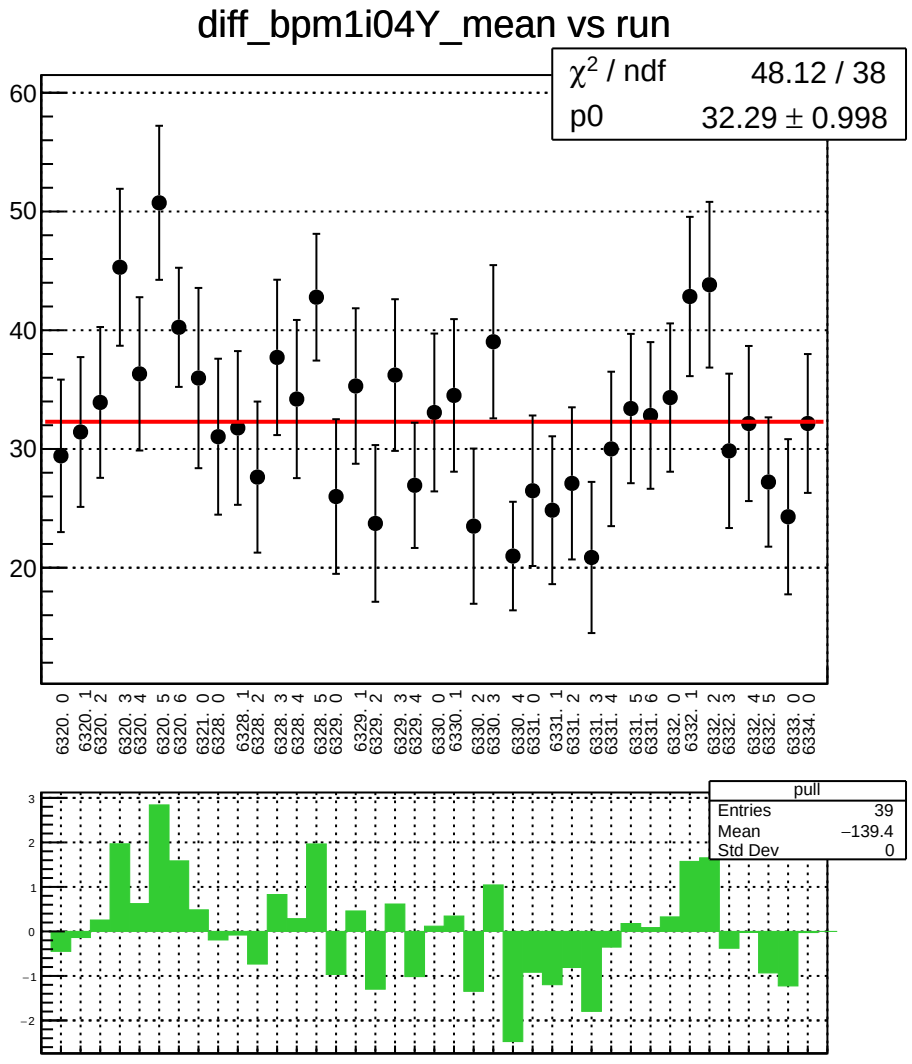

pull1D
Entries 39
Mean −0.02776
Std Dev 2.3

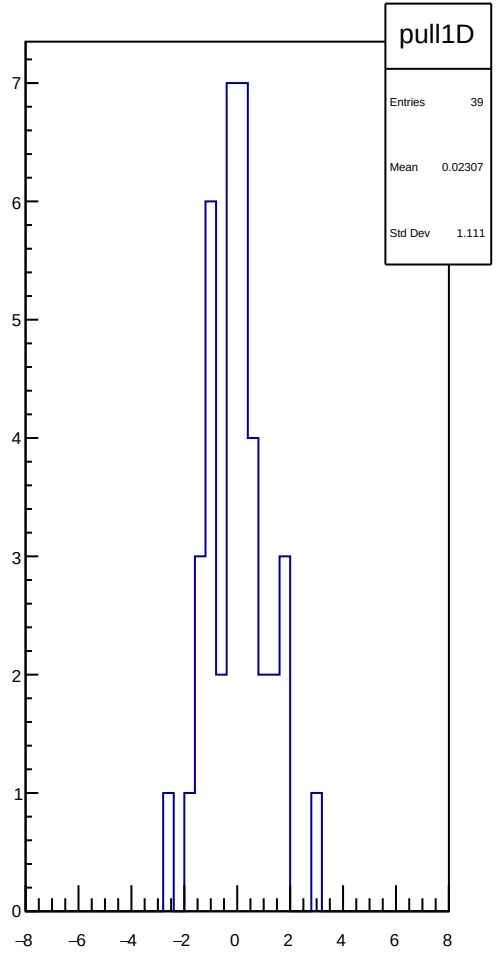

diff_bpm1i02Y_rms vs run
χ² / ndf 342.2 / 38
p0 603.7 ± 0.6935
640
630
620
610
600
590
580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

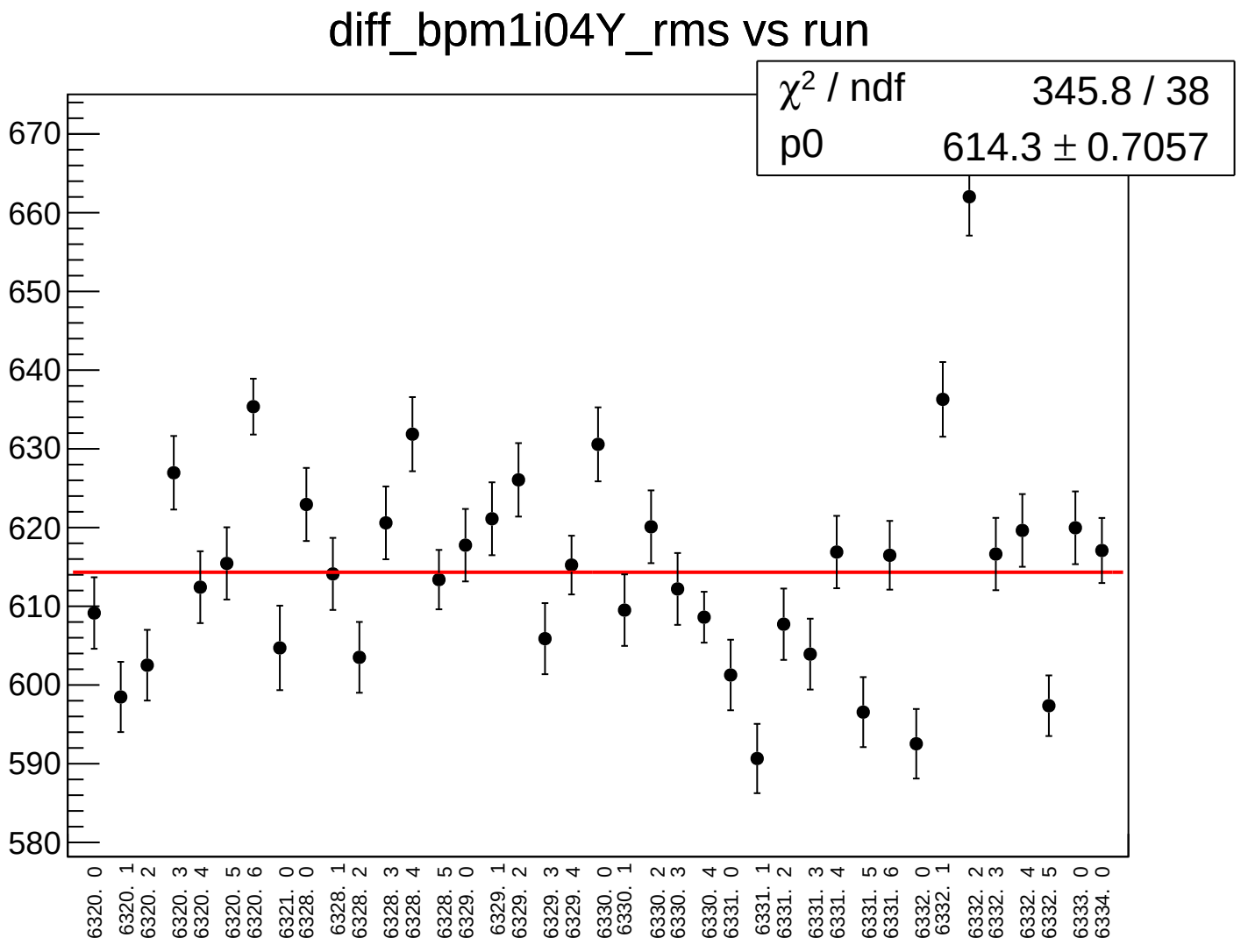

diff_bpm1i04X_mean vs run
χ² / ndf 155.1 / 38
p0 34.74 ± 1.162
pull
Entries 39
Mean 6.466e+04
Std Dev 0

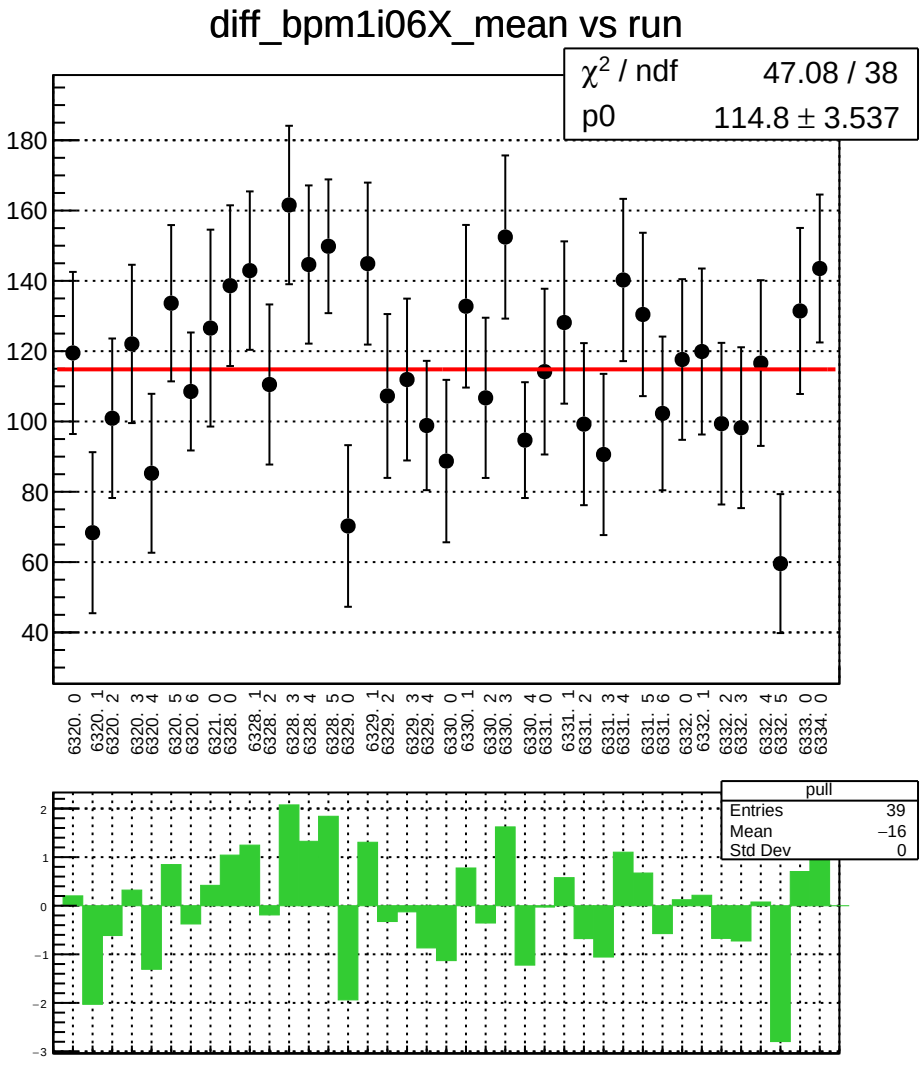

pull1D
Entries 39
Mean −4.687e−05
Std Dev 1.994

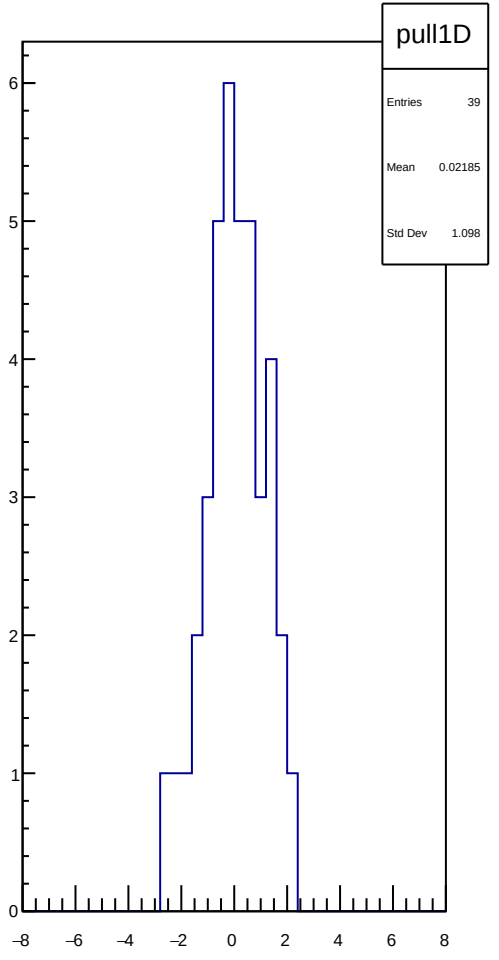

diff_bpm1i04X_rms vs run
χ² / ndf 221.6 / 38
p0 715.2 ± 0.8215
750
740
730
720
710
700
690
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

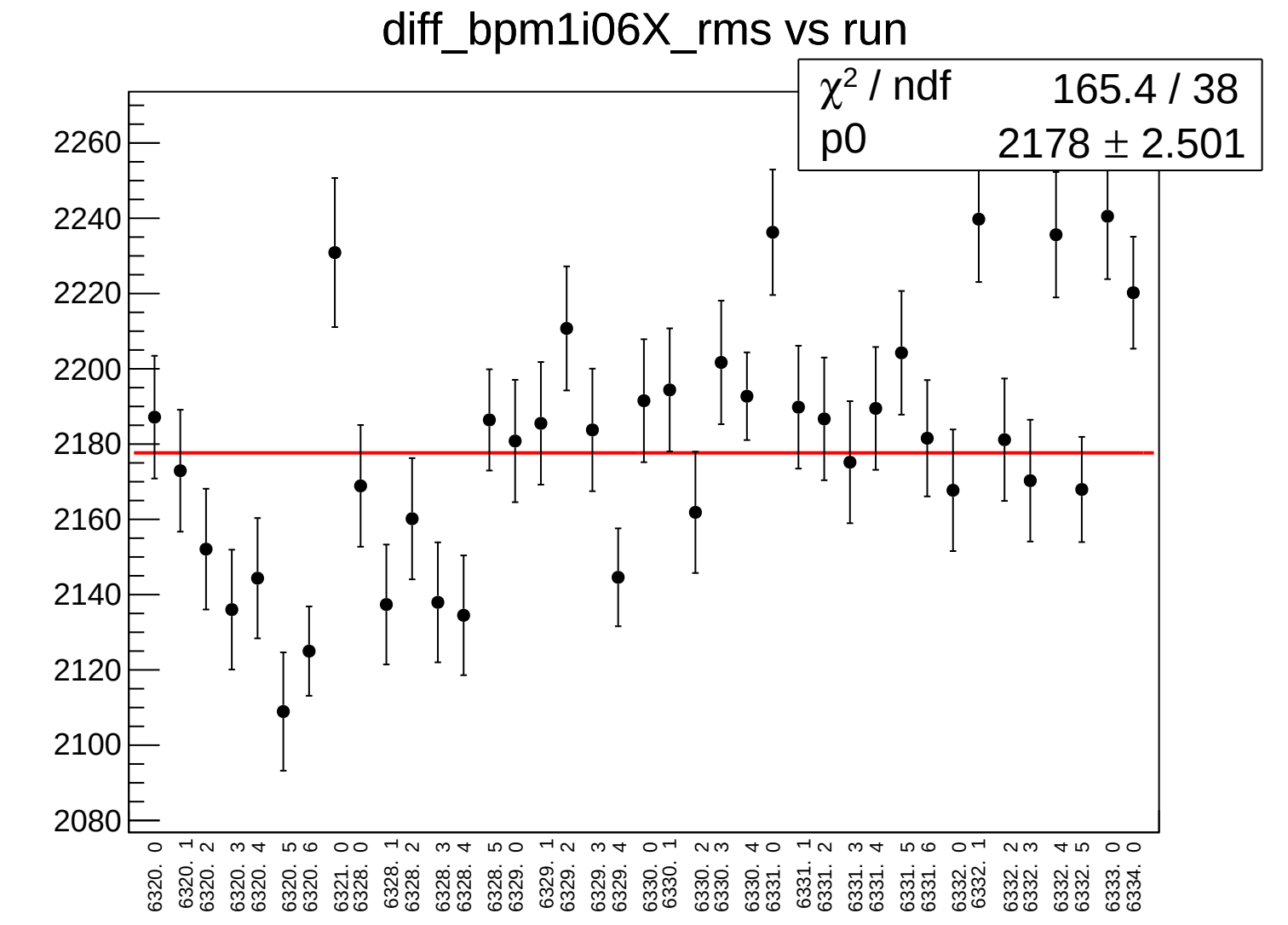

diff_bpm1i04Y_mean vs run
χ² / ndf 48.12 / 38
p0 32.29 ± 0.998
pull
Entries 39
Mean −139.4
Std Dev 0

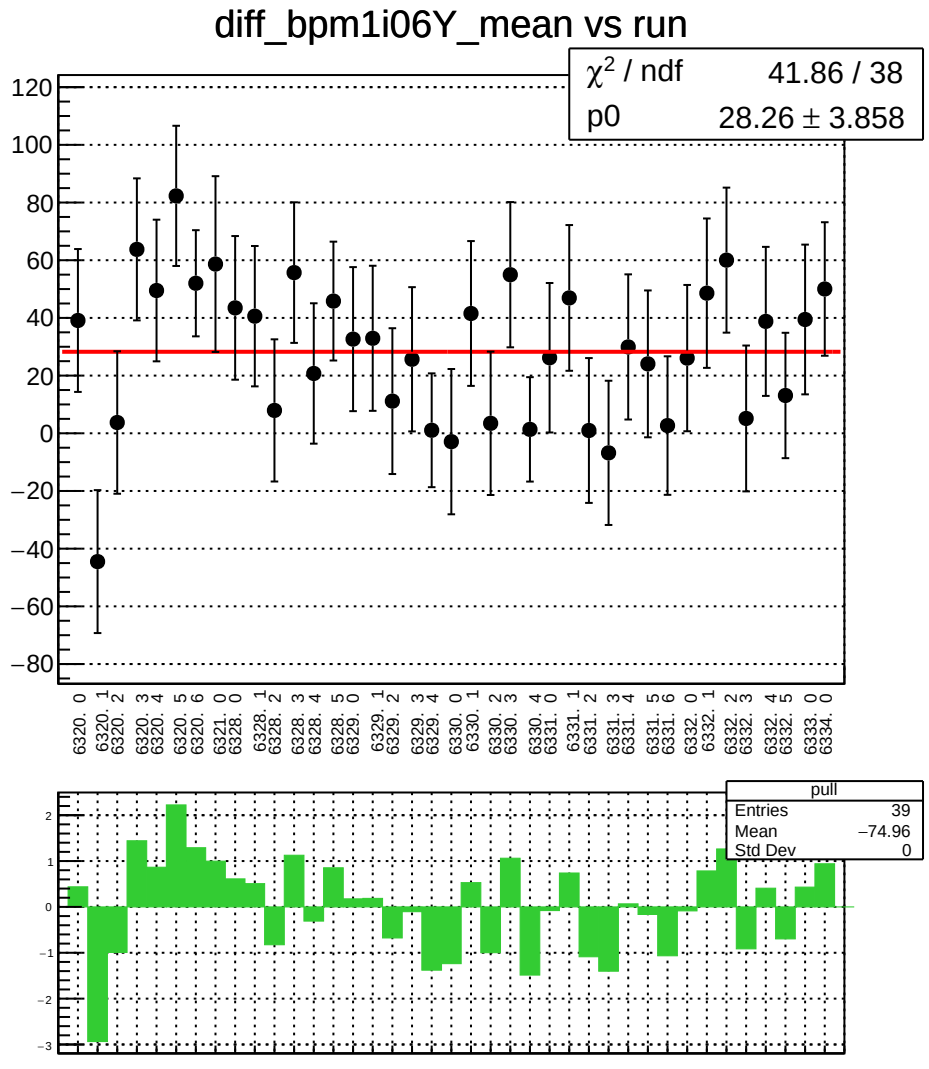

pull1D
Entries 39
Mean 0.02307
Std Dev 1.111

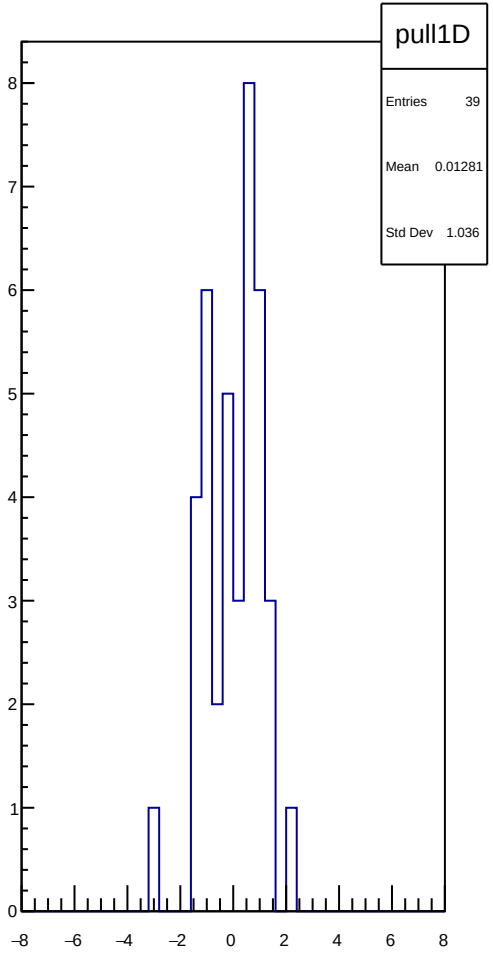

diff_bpm1i04Y_rms vs run
χ² / ndf 345.8 / 38
p0 614.3 ± 0.7057
670
660
650
640
630
620
610
600
590
580
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

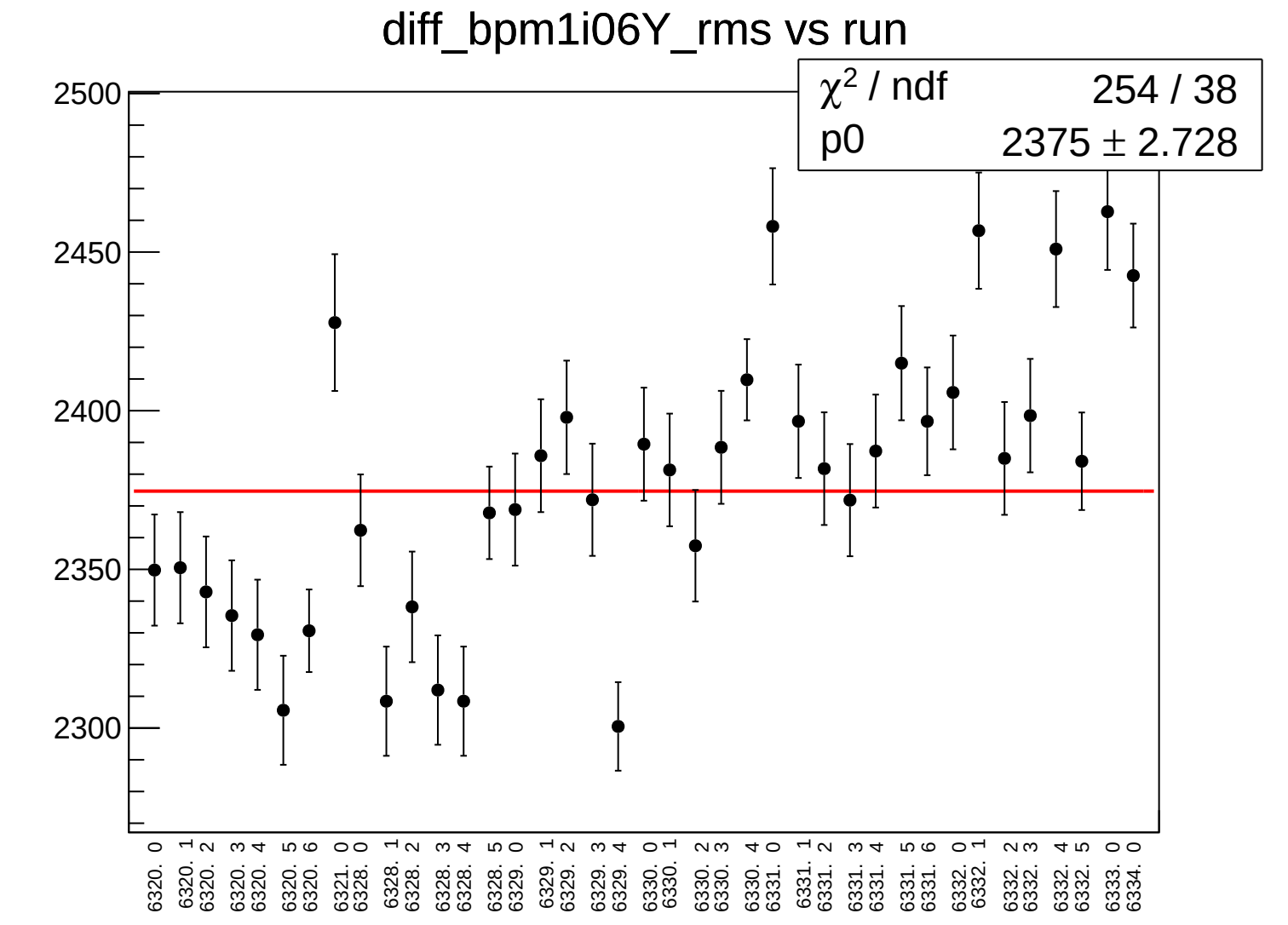

diff_bpm1i06X_mean vs run
χ² / ndf 47.08 / 38
p0 114.8 ± 3.537
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16
Std Dev 0
2
1
0
−1
−2
−3

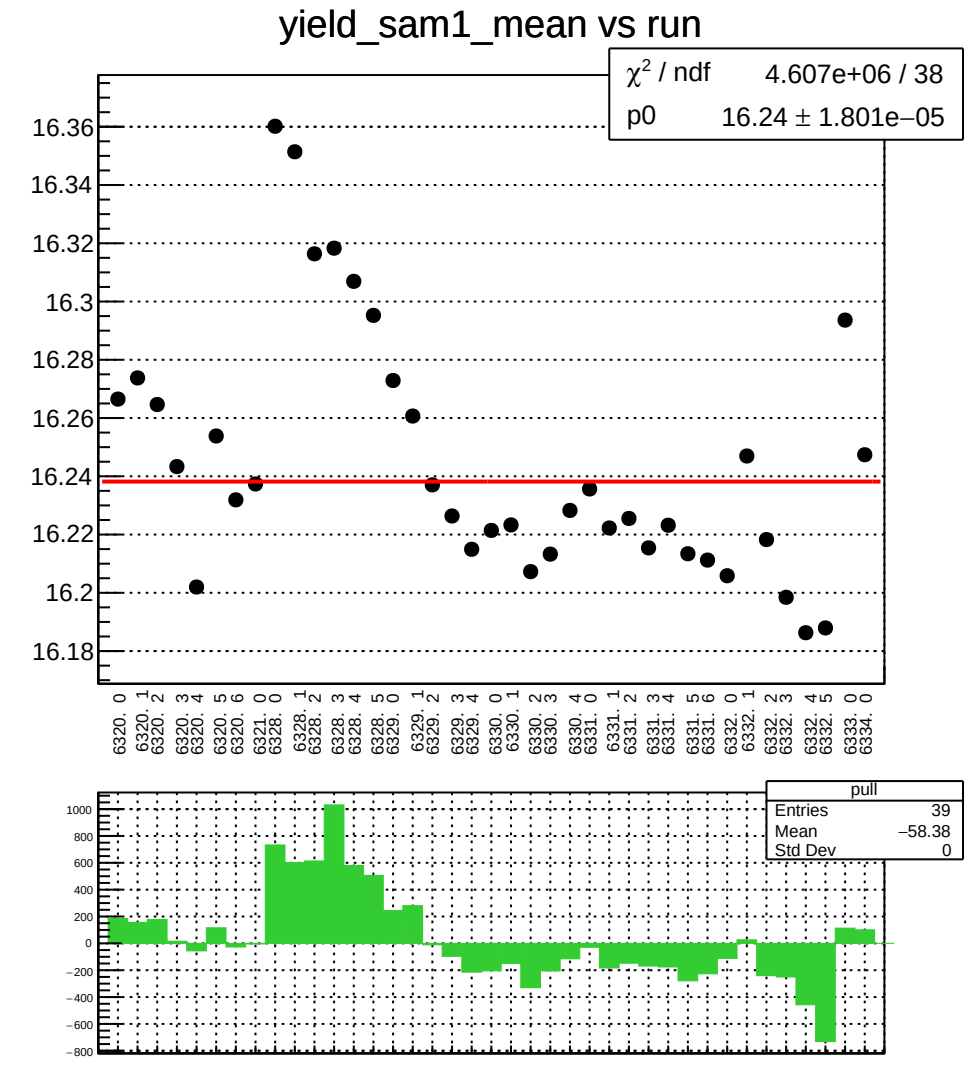

pull1D
Entries 39
Mean 0.02185
Std Dev 1.098
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

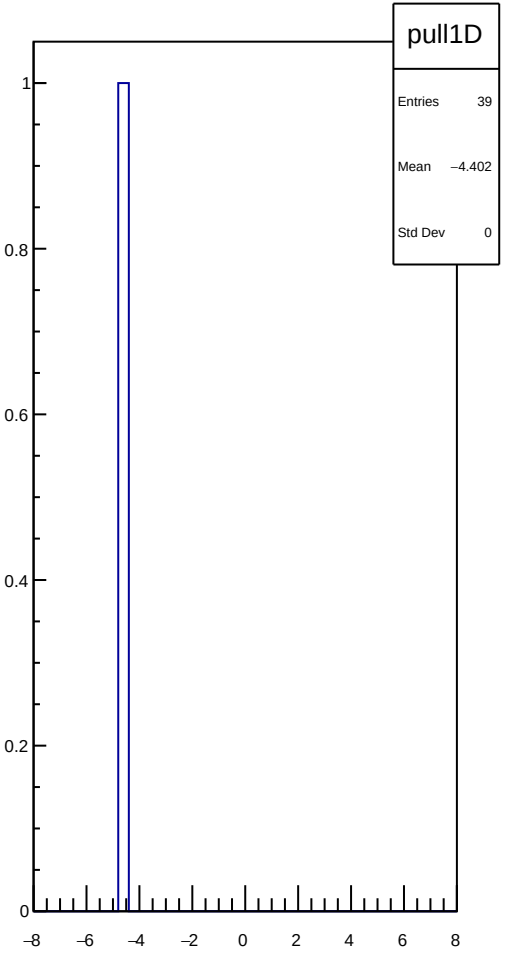

diff_bpm1i06X_rms vs run
χ² / ndf 165.4 / 38
p0 2178 ± 2.501
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

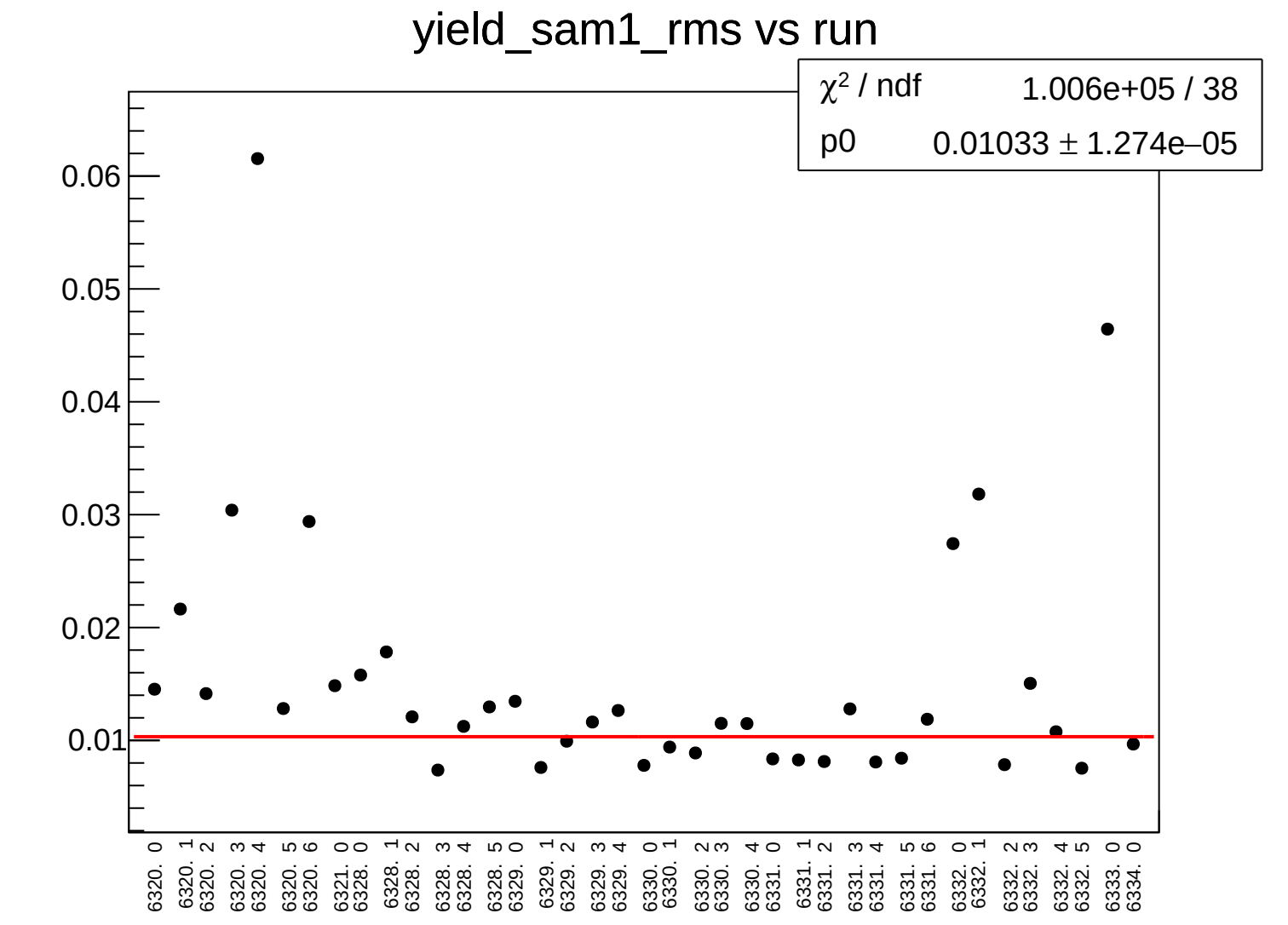

diff_bpm1i06Y_mean vs run
χ² / ndf 41.86 / 38
p0 28.26 ± 3.858
pull
Entries 39
Mean −74.96
Std Dev 0

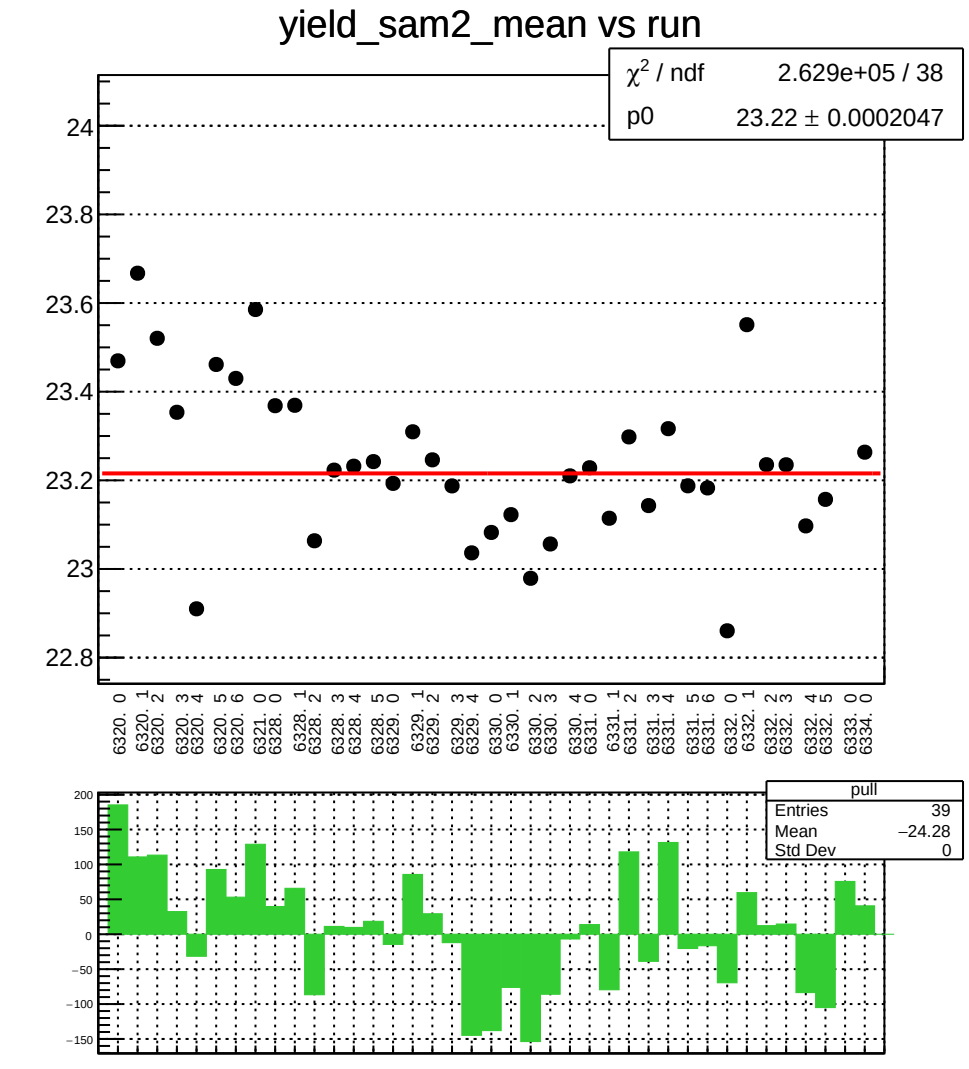

pull1D
Entries 39
Mean 0.01281
Std Dev 1.036

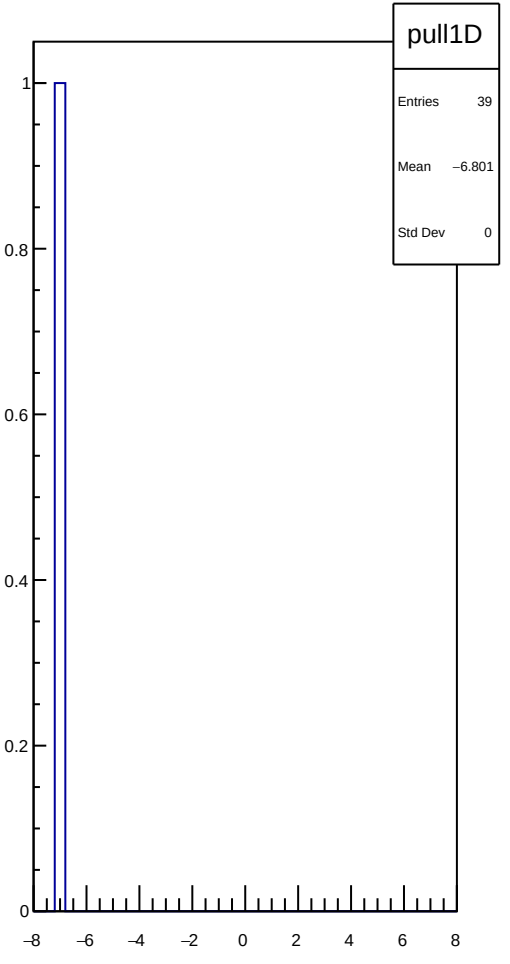

diff_bpm1i06Y_rms vs run
χ² / ndf 254 / 38
p0 2375 ± 2.728
2500
2450
2400
2350
2300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

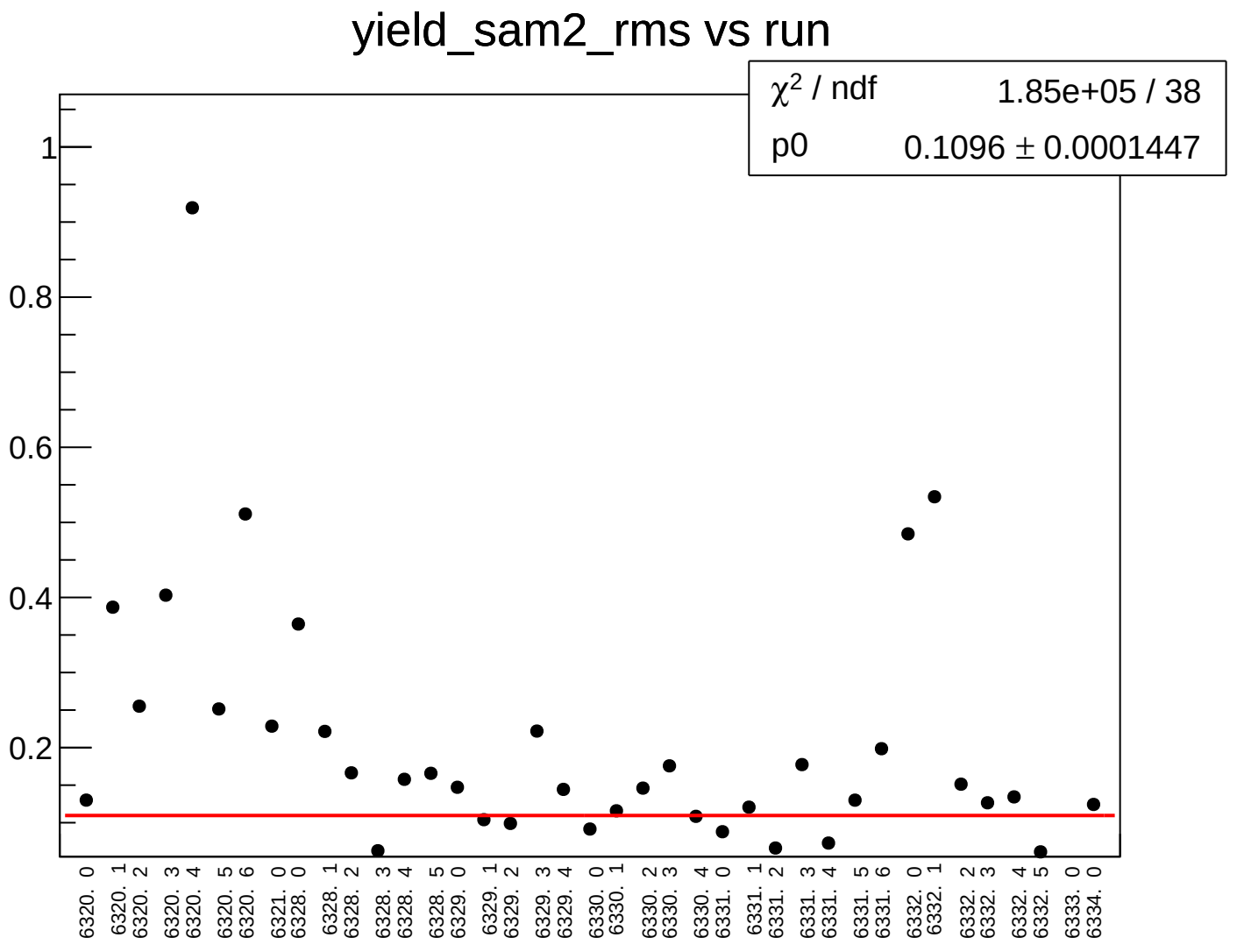

yield_sam1_mean vs run
χ² / ndf 4.607e+06 / 38
p0 16.24 ± 1.801e−05
16.36
16.34
16.32
16.3
16.28
16.26
16.24
16.22
16.2
16.18
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −58.38
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

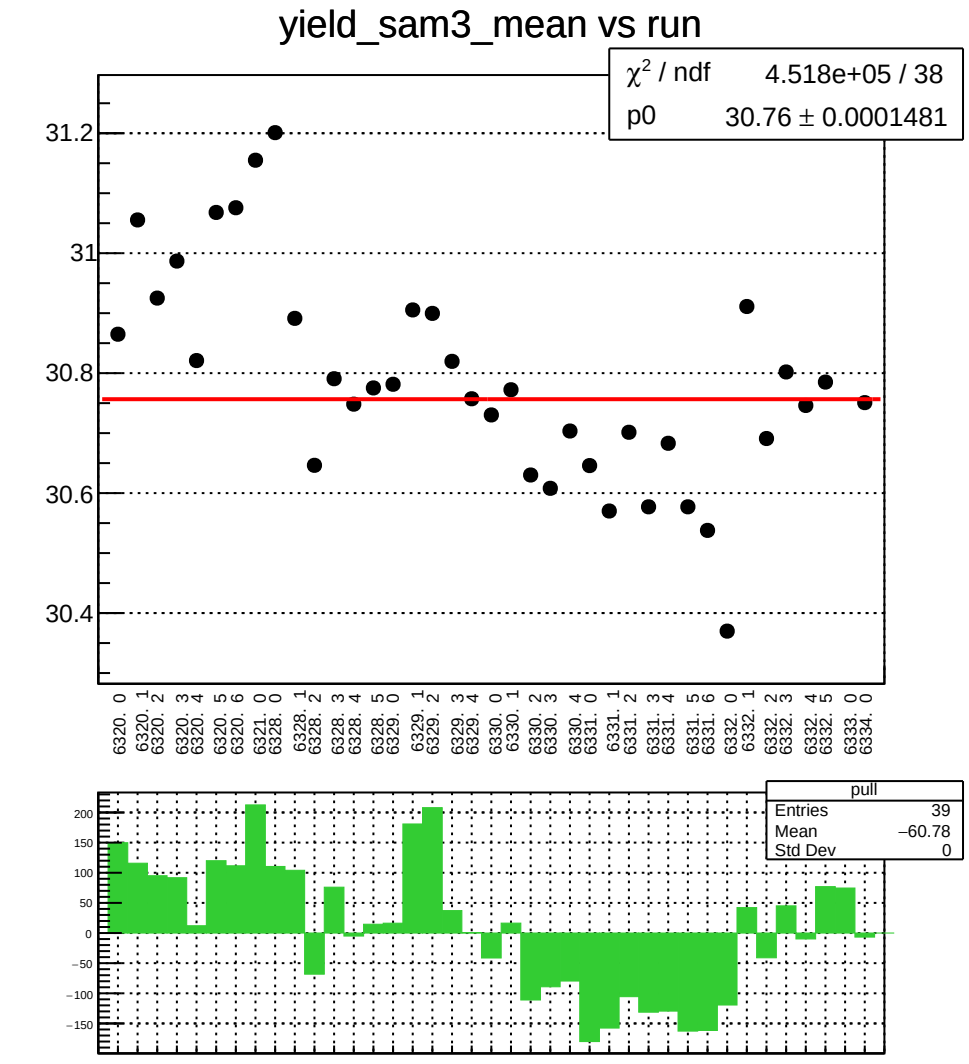

pull1D
Entries 39
Mean −4.402
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

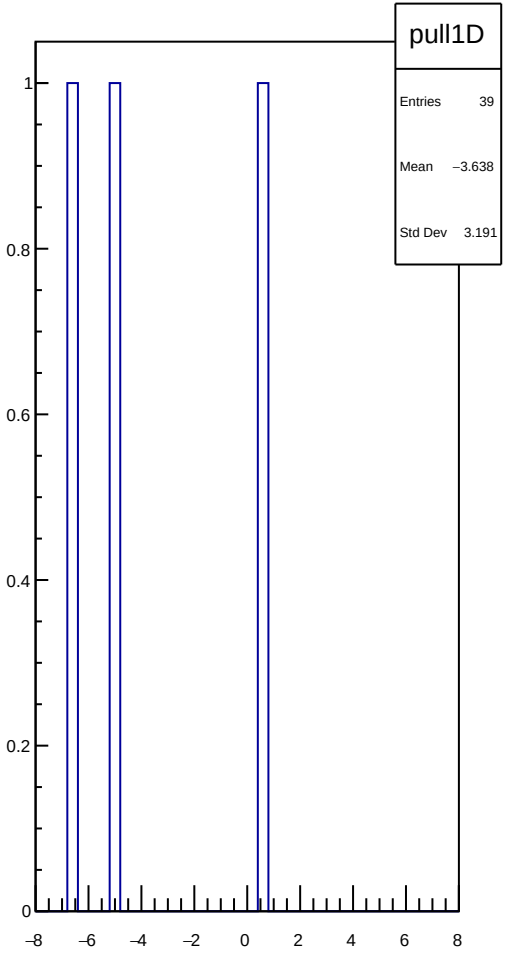

yield_sam1_rms vs run
χ² / ndf 1.006e+05 / 38
p0 0.01033 ± 1.274e–05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

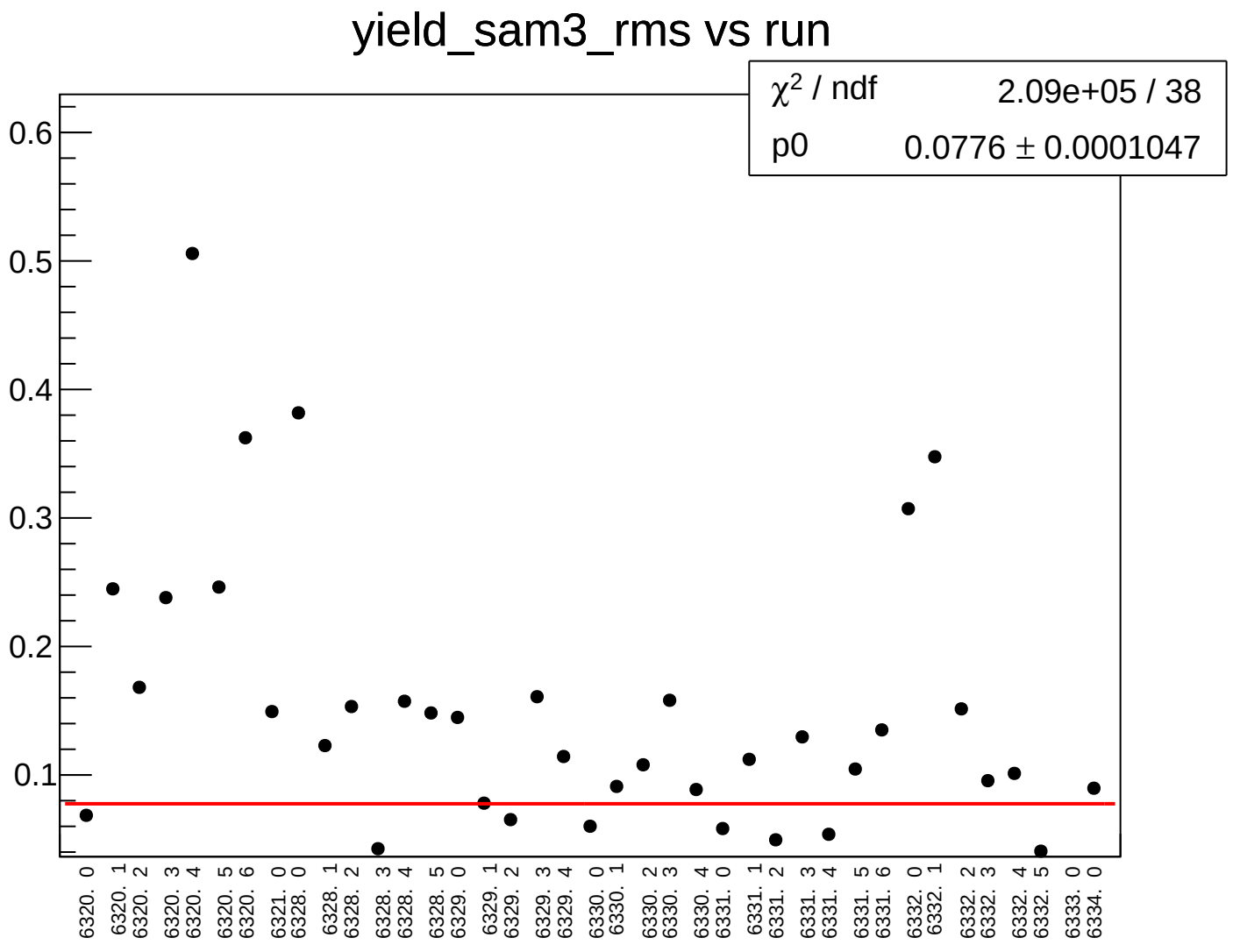

yield_sam2_mean vs run
χ² / ndf 2.629e+05 / 38
p0 23.22 ± 0.0002047
24
23.8
23.6
23.4
23.2
23
22.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.28
Std Dev 0
200
150
100
50
0
−50
−100
−150

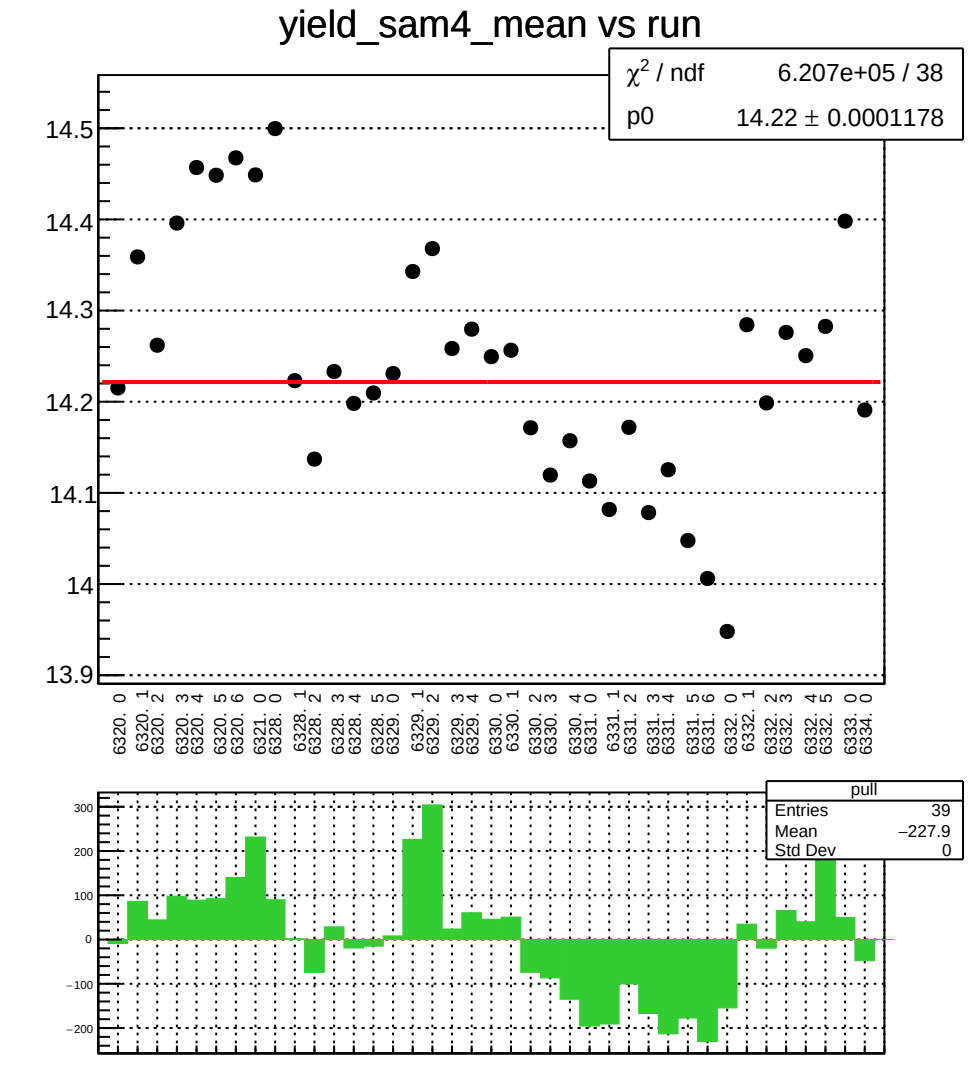

pull1D
Entries 39
Mean −6.801
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

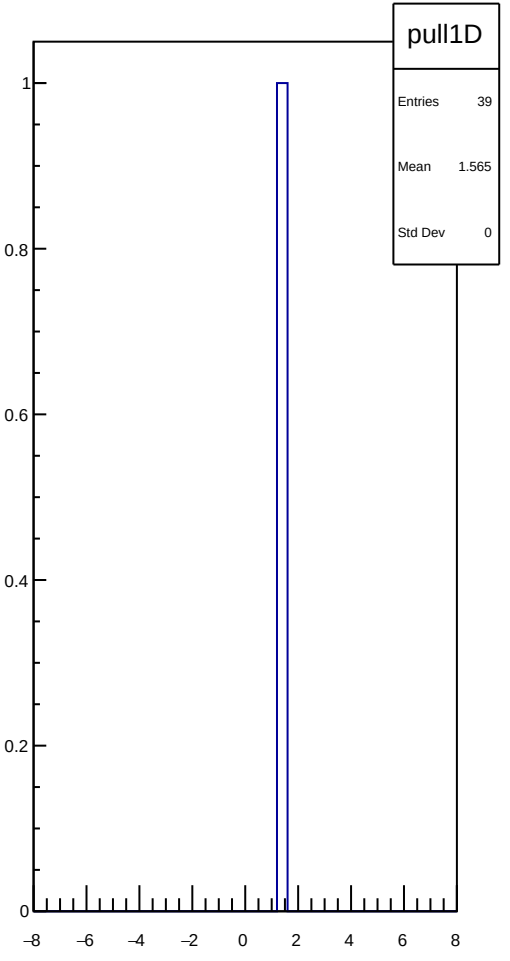

yield_sam2_rms vs run
χ² / ndf 1.85e+05 / 38
p0 0.1096 ± 0.0001447
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

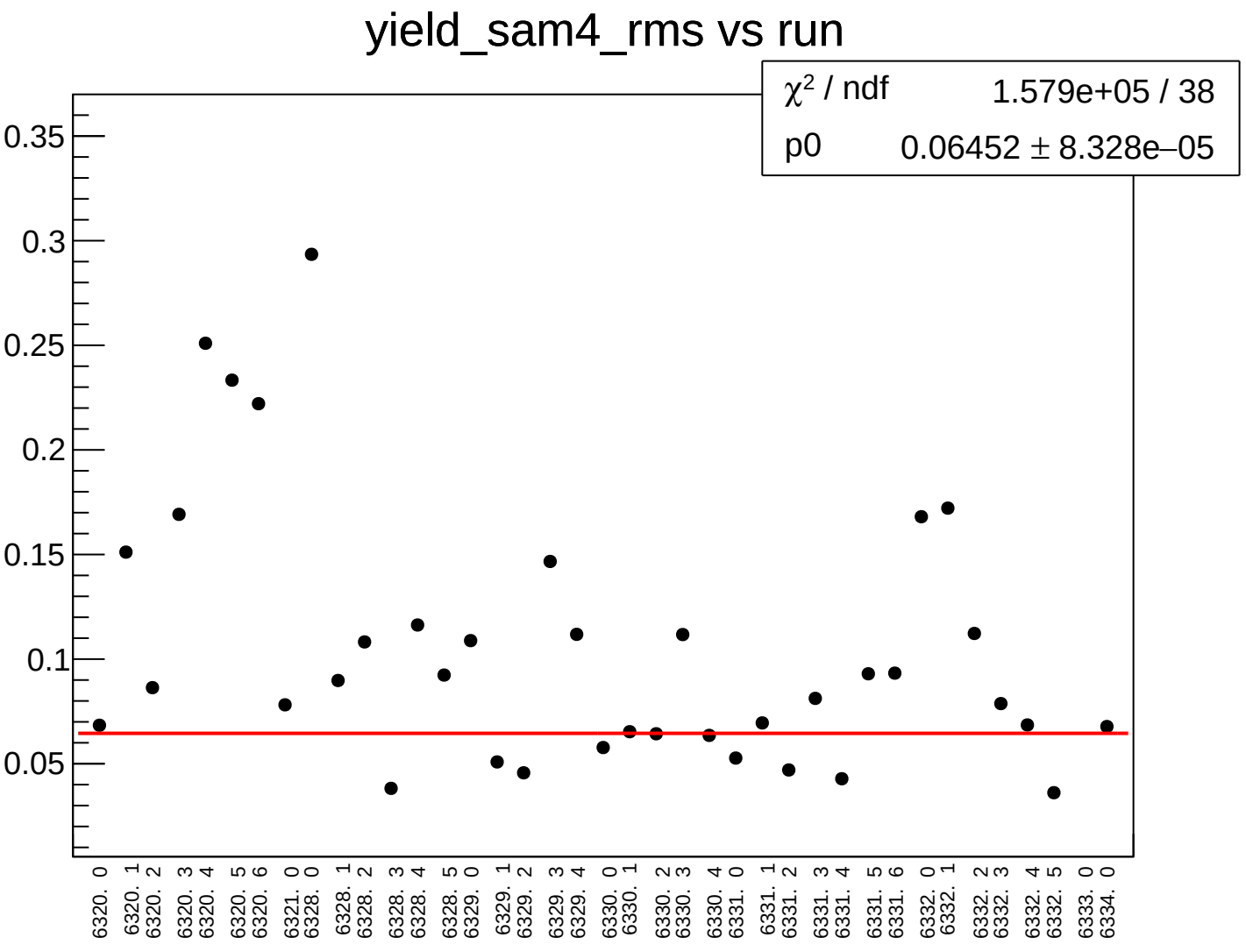

yield_sam3_mean vs run
χ² / ndf 4.518e+05 / 38
p0 30.76 ± 0.0001481
31.2
31
30.8
30.6
30.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.78
Std Dev 0
200
150
100
50
0
−50
−100
−150

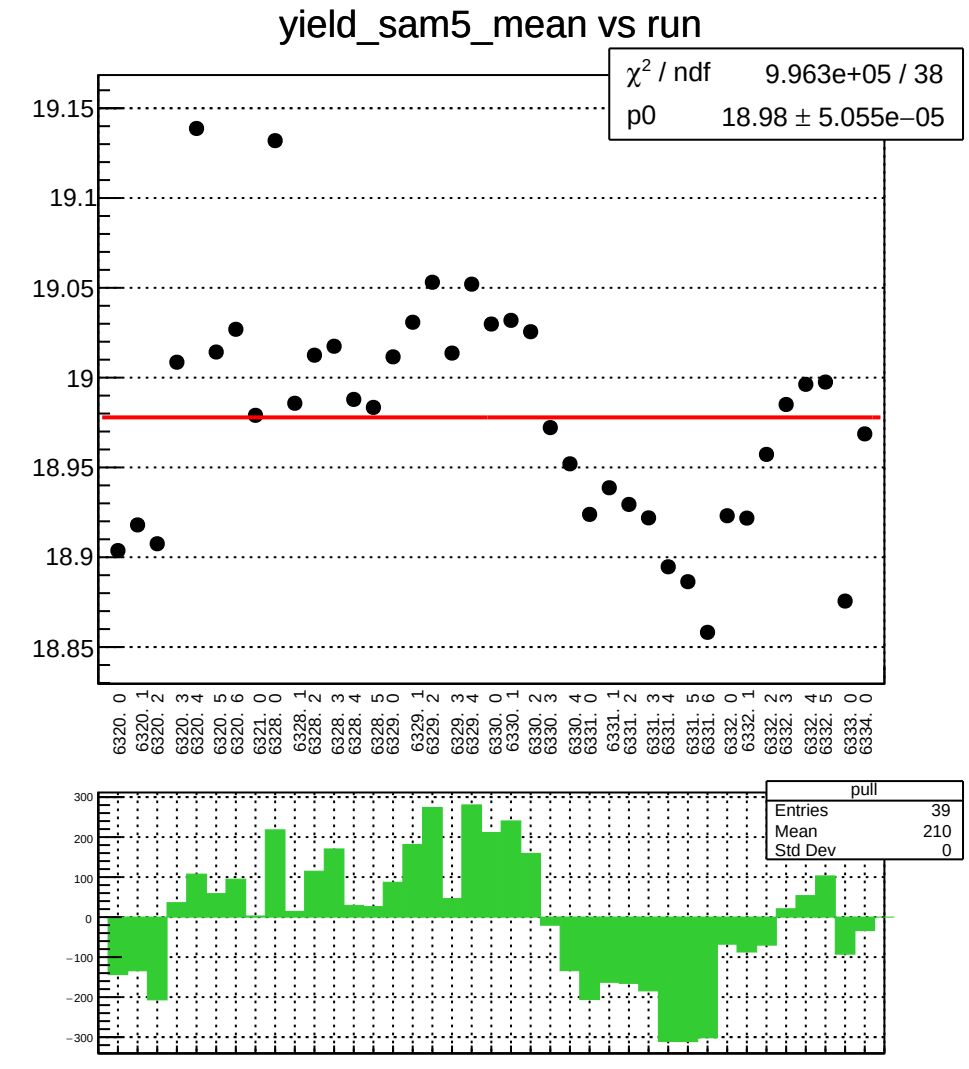

pull1D
Entries 39
Mean −3.638
Std Dev 3.191
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

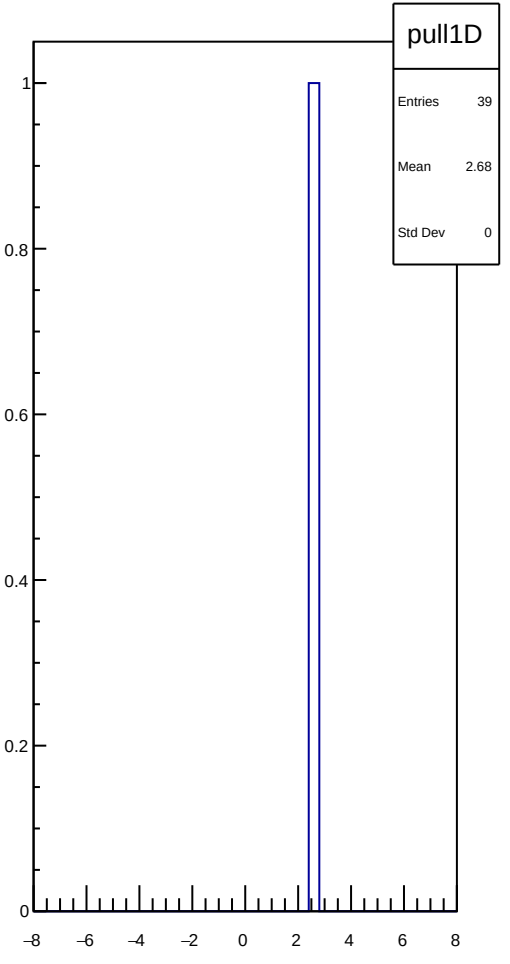

yield_sam3_rms vs run
χ² / ndf 2.09e+05 / 38
p0 0.0776 ± 0.0001047
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

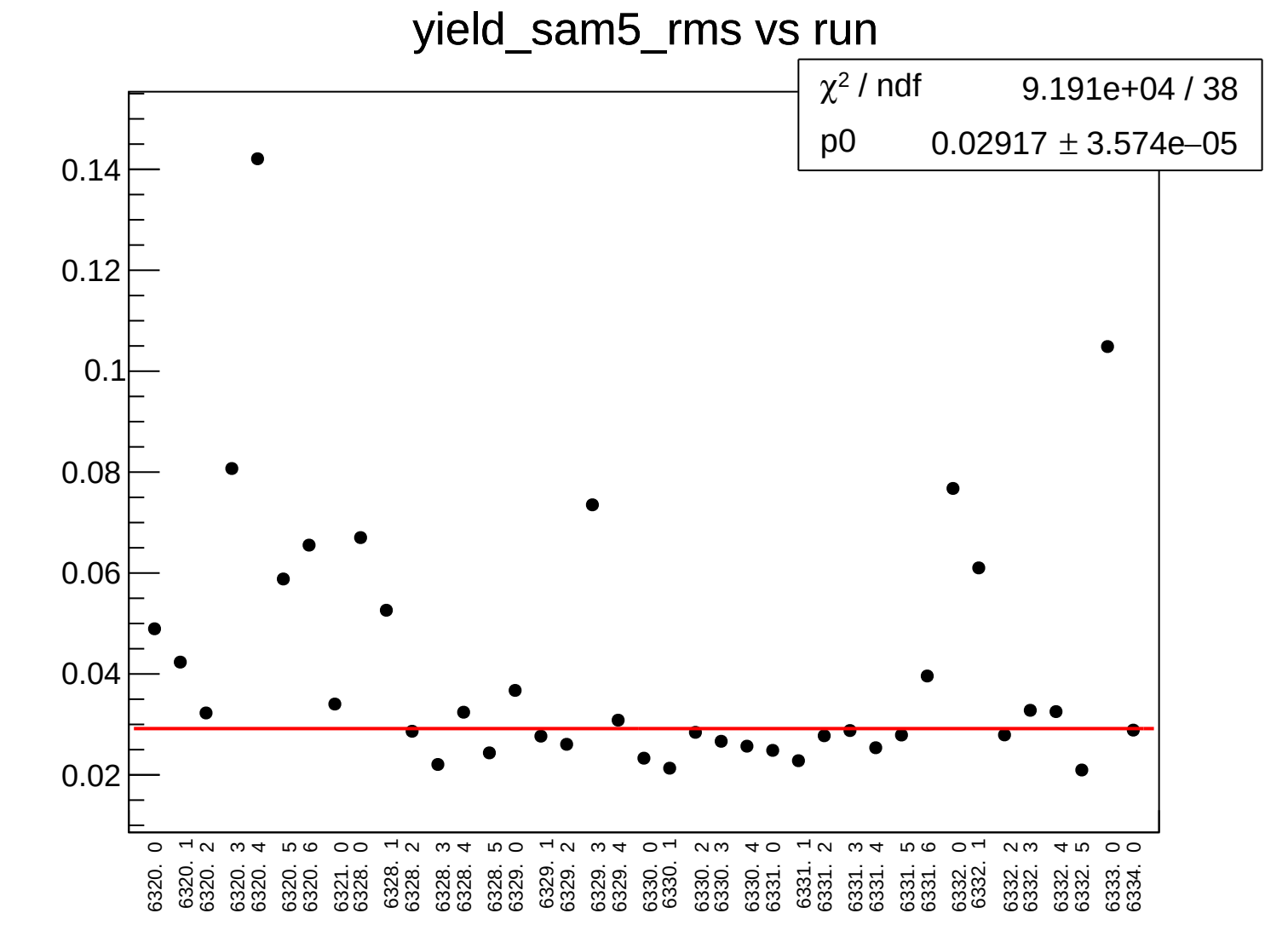

yield_sam4_mean vs run
χ² / ndf 6.207e+05 / 38
p0 14.22 ± 0.0001178
14.5
14.4
14.3
14.2
14.1
14
13.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −227.9
Std Dev 0
300
200
100
0
−100
−200

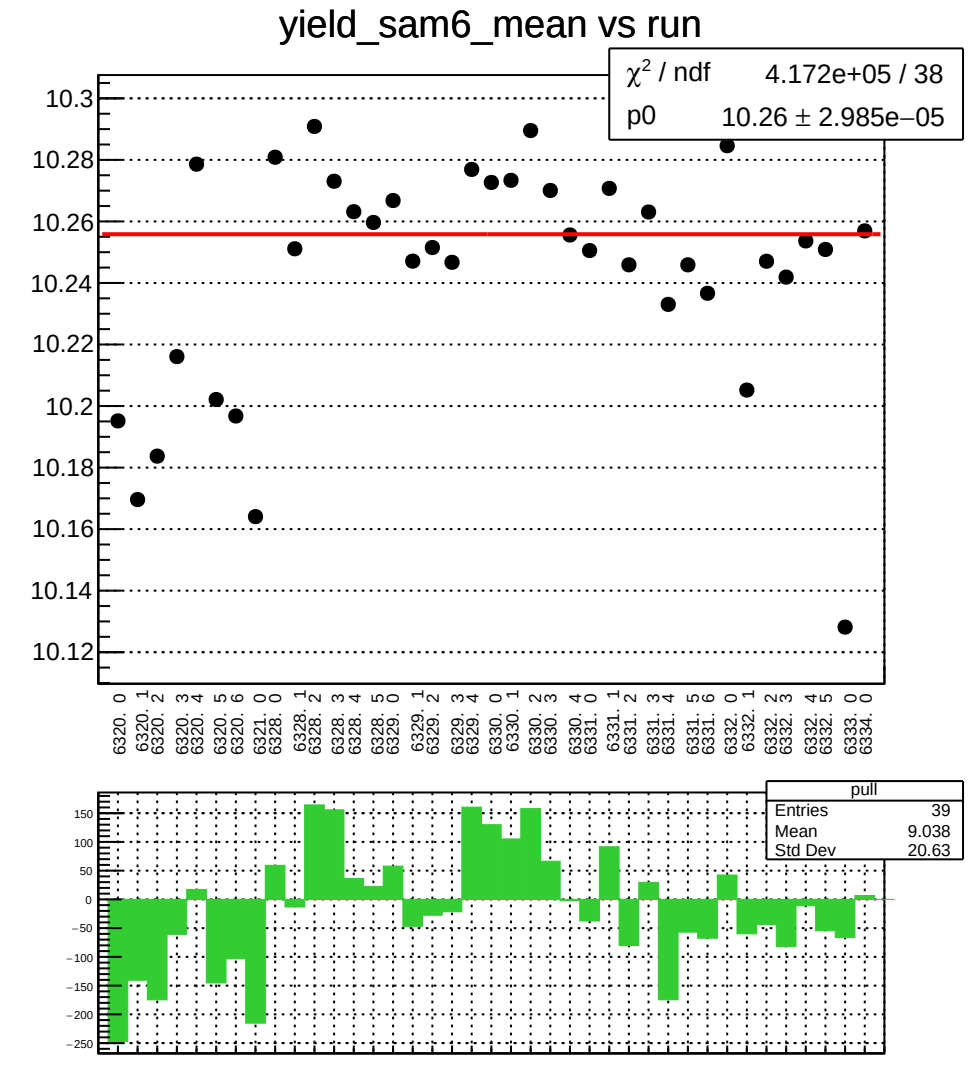

pull1D
Entries 39
Mean 1.565
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

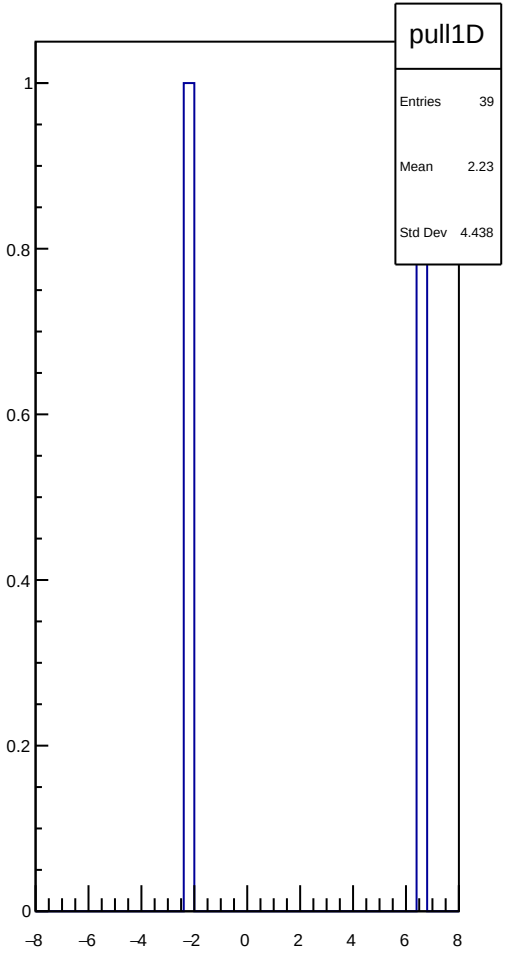

yield_sam4_rms vs run
χ² / ndf 1.579e+05 / 38
p0 0.06452 ± 8.328e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

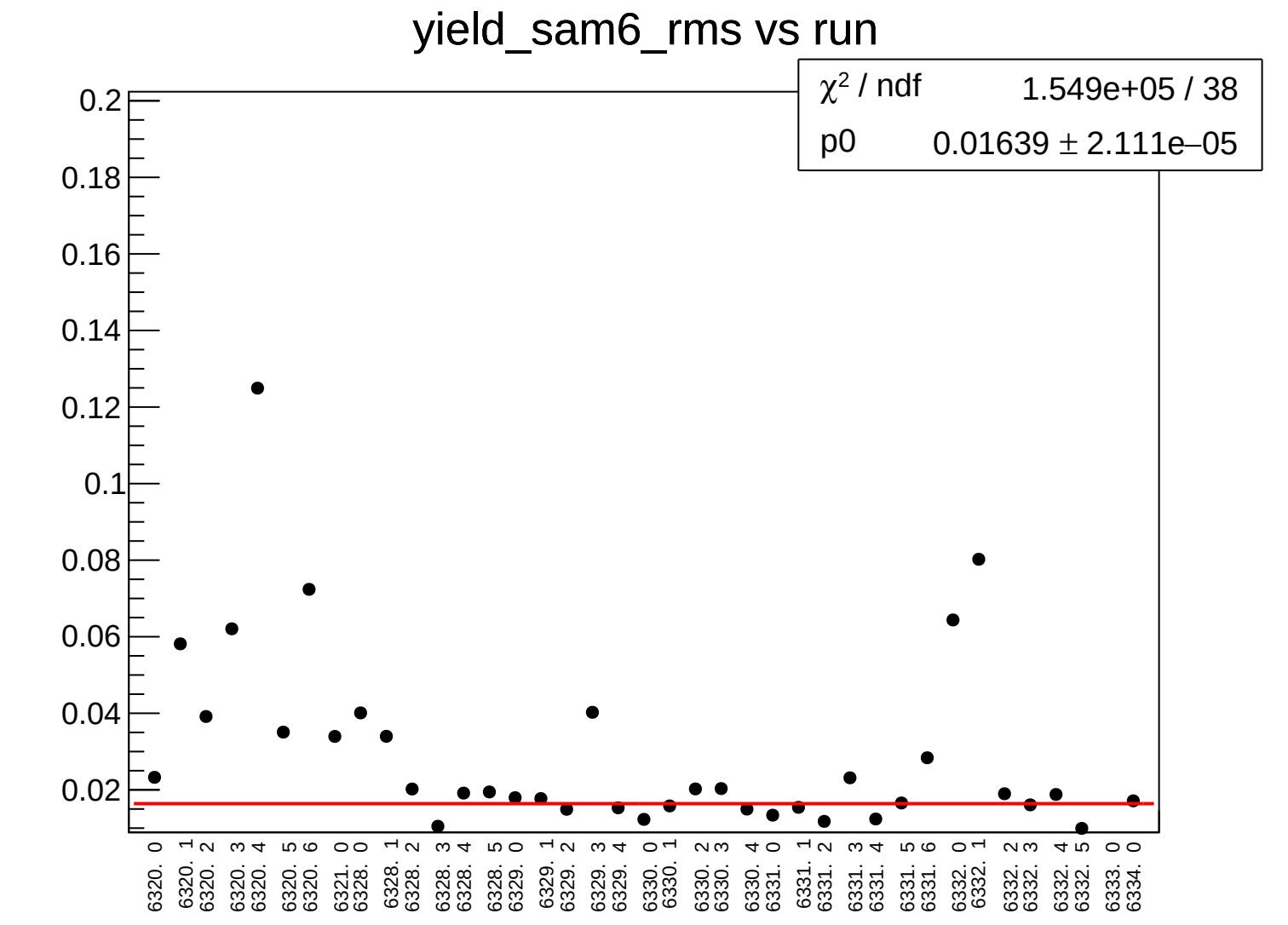

yield_sam5_mean vs run
χ² / ndf 9.963e+05 / 38
p0 18.98 ± 5.055e−05
19.15
19.1
19.05
19
18.95
18.9
18.85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 210
Std Dev 0
300
200
100
0
−100
−200
−300

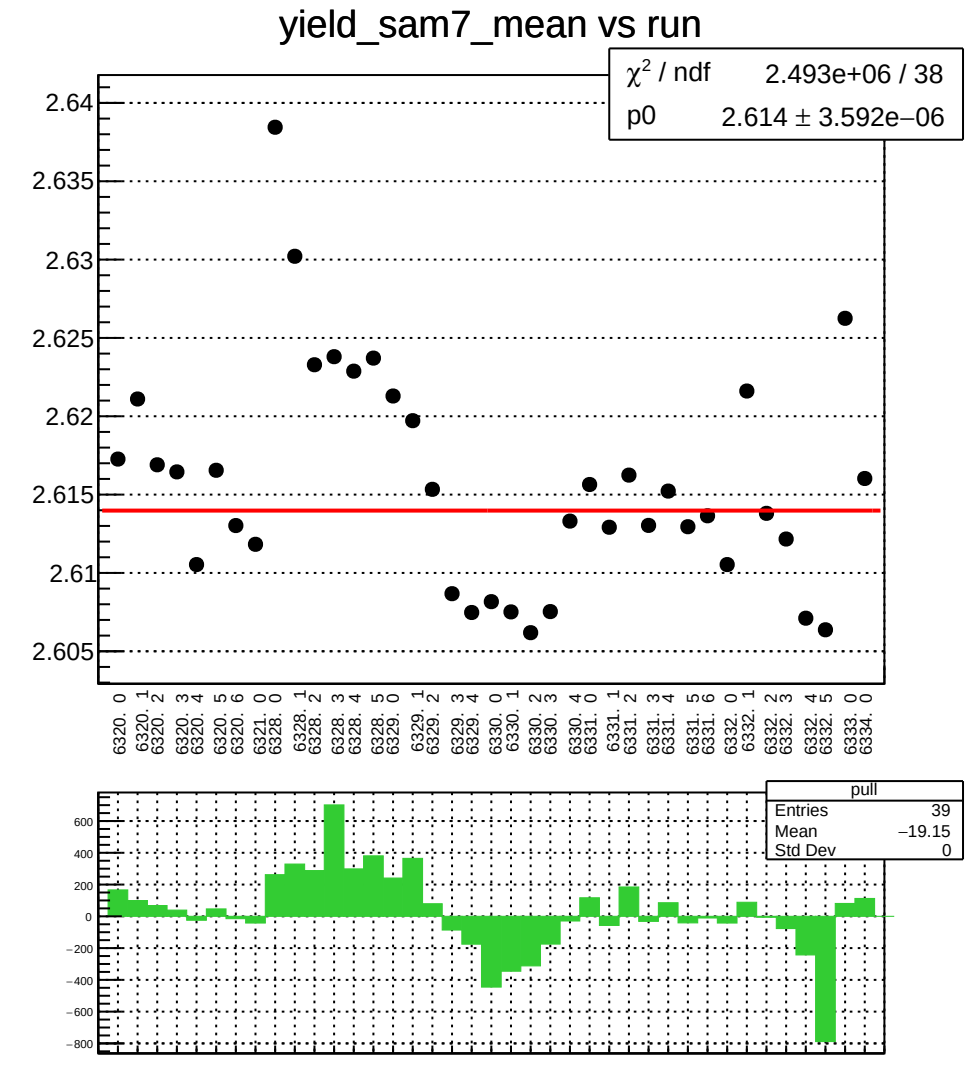

pull1D
Entries 39
Mean 2.68
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

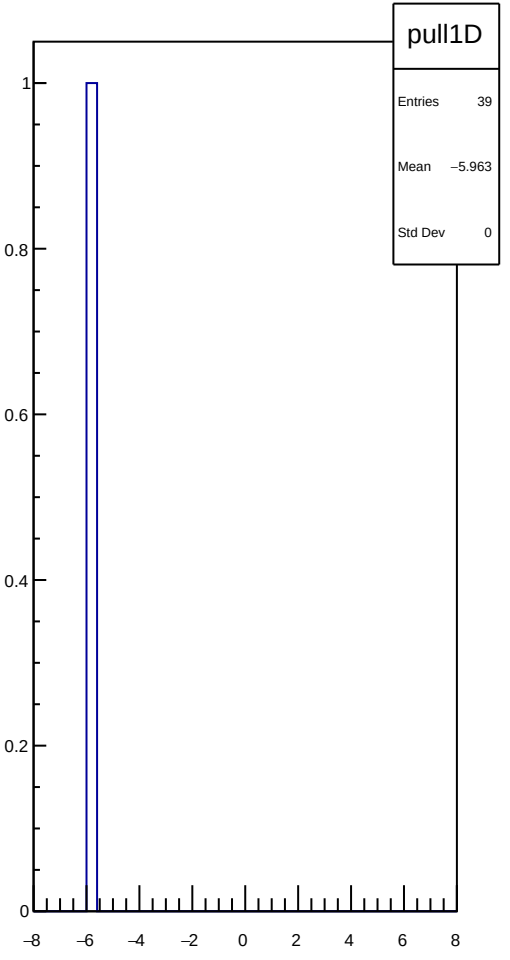

yield_sam5_rms vs run
χ² / ndf 9.191e+04 / 38
p0 0.02917 ± 3.574e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

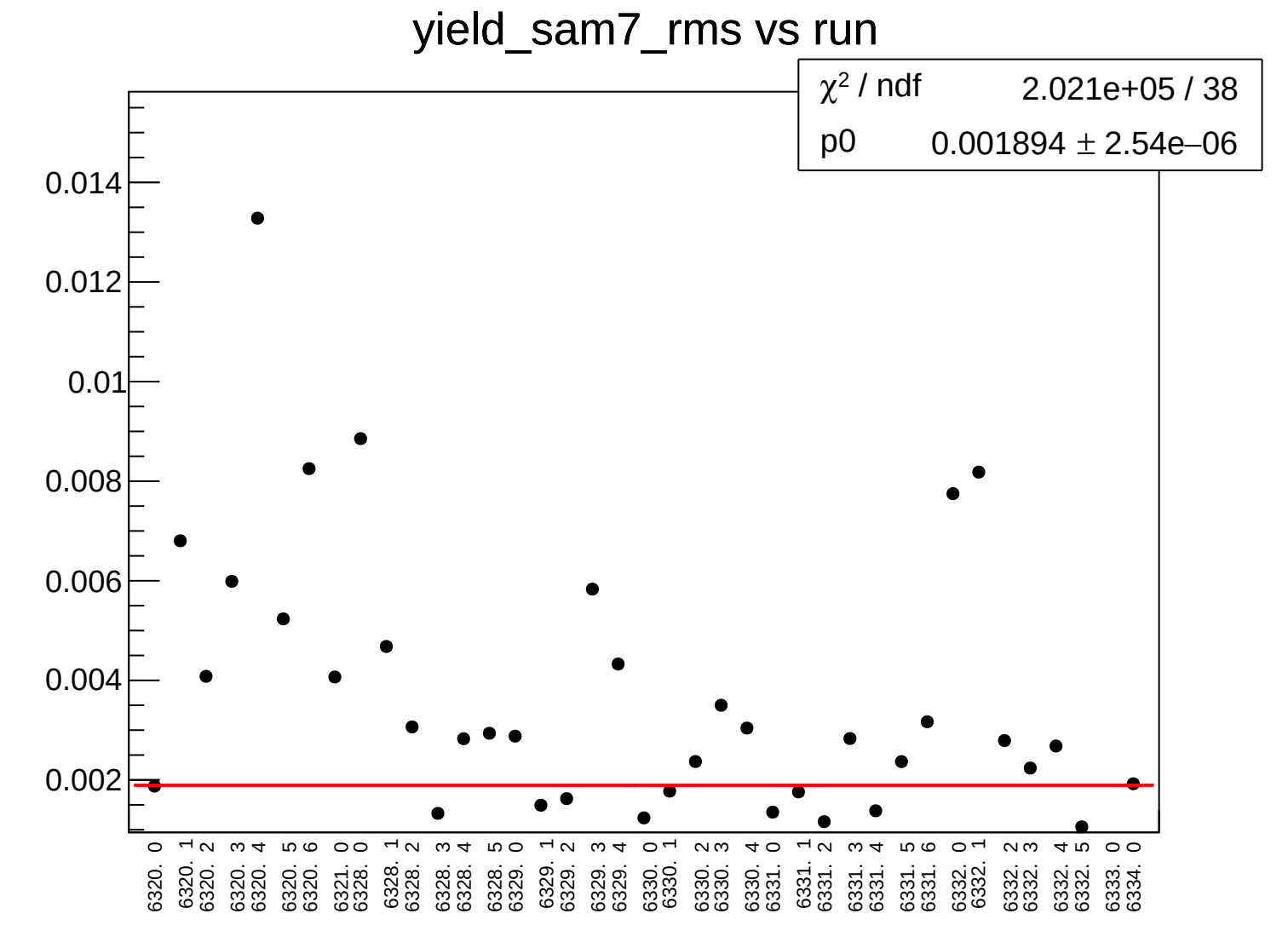

yield_sam6_mean vs run
χ² / ndf 4.172e+05 / 38
p0 10.26 ± 2.985e−05
10.3
10.28
10.26
10.24
10.22
10.2
10.18
10.16
10.14
10.12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 9.038
Std Dev 20.63
150
100
50
0
−50
−100
−150
−200
−250

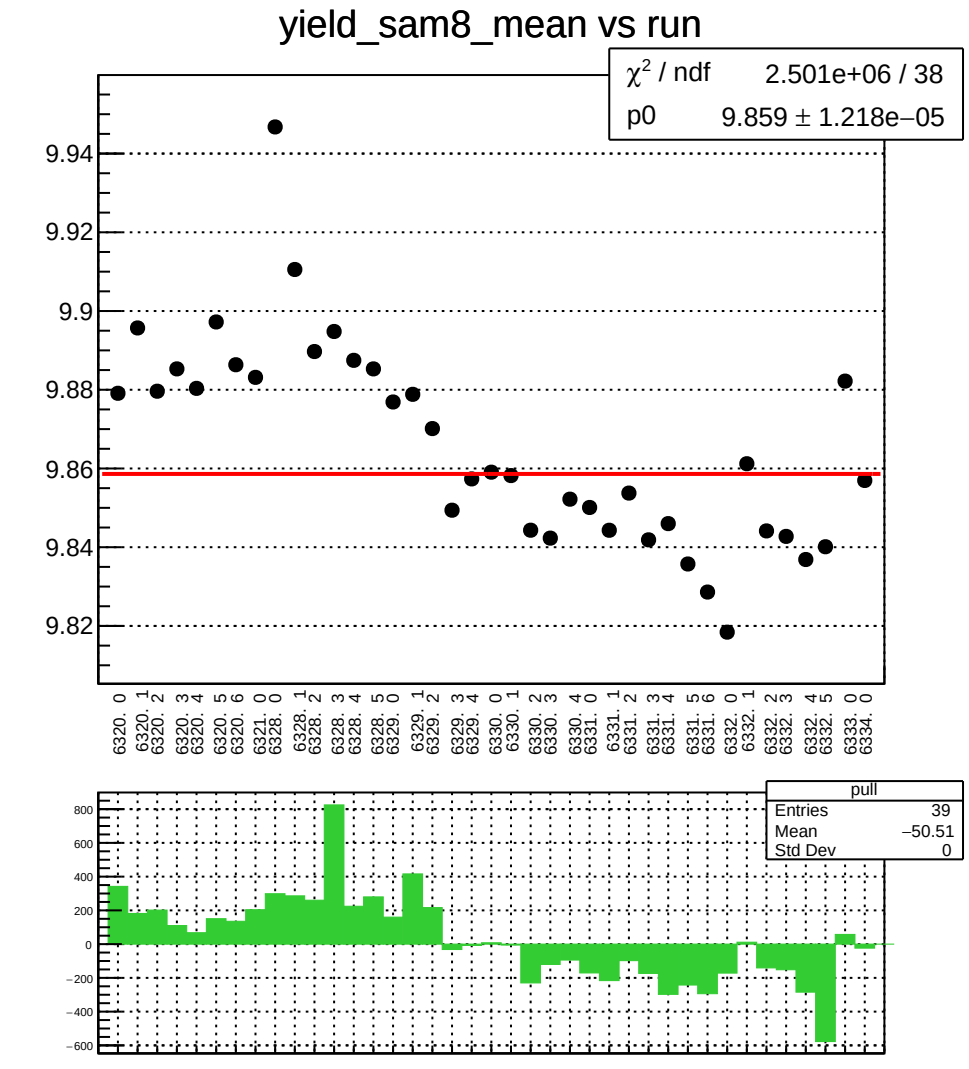

pull1D
Entries 39
Mean 2.23
Std Dev 4.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

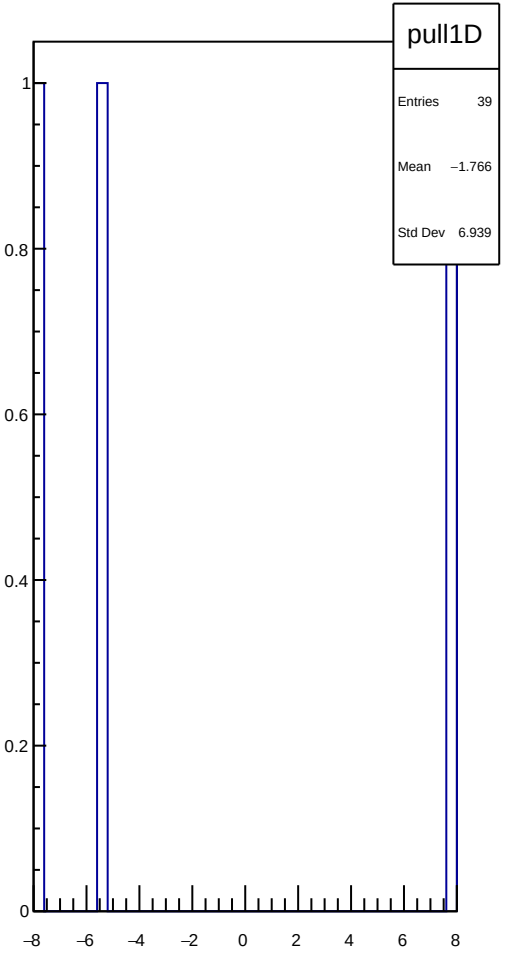

yield_sam6_rms vs run
χ² / ndf 1.549e+05 / 38
p0 0.01639 ± 2.111e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

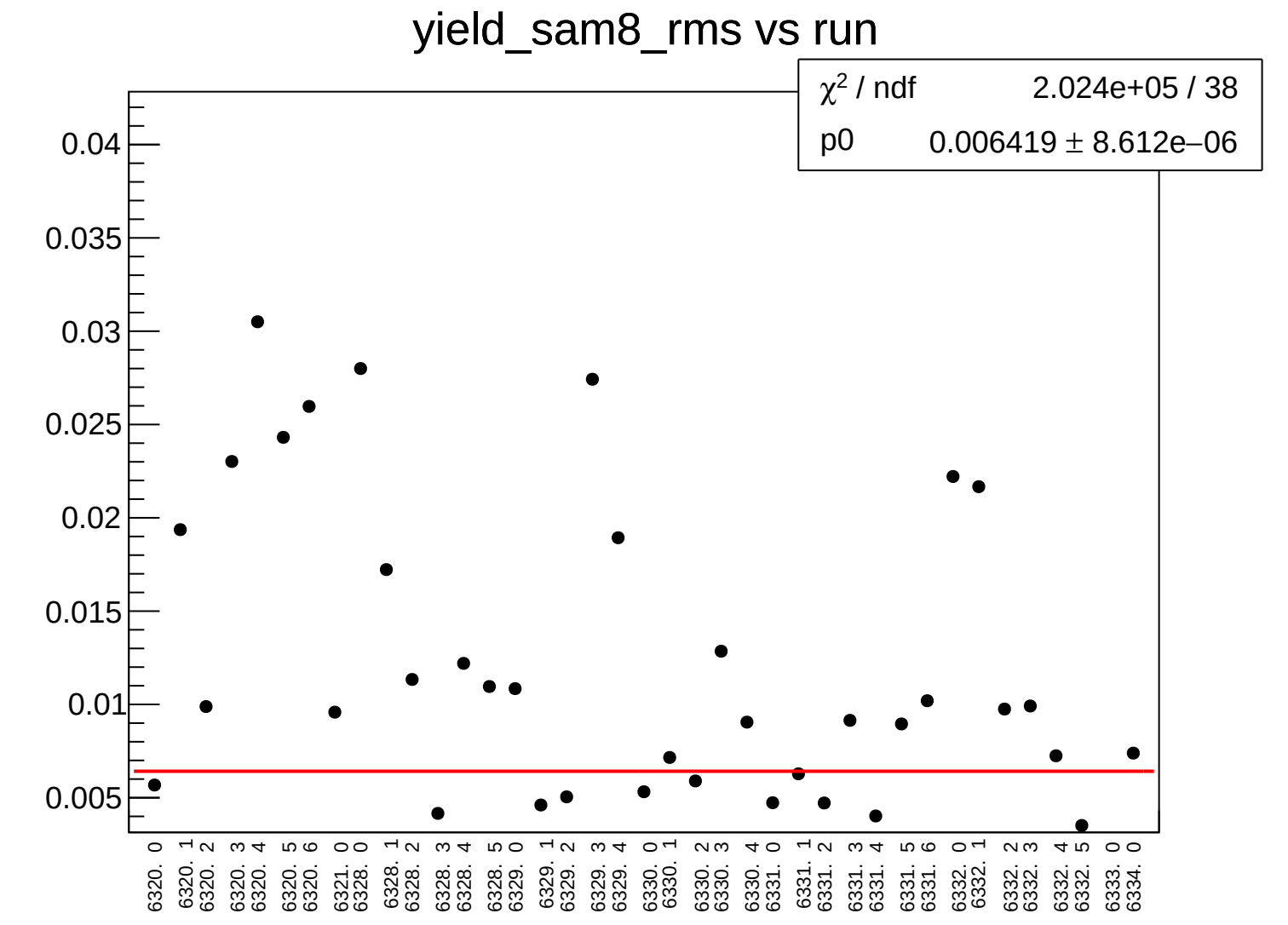

yield_sam7_mean vs run
χ² / ndf 2.493e+06 / 38
p0 2.614 ± 3.592e−06
2.64
2.635
2.63
2.625
2.62
2.615
2.61
2.605
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.15
Std Dev 0
600
400
200
0
−200
−400
−600
−800

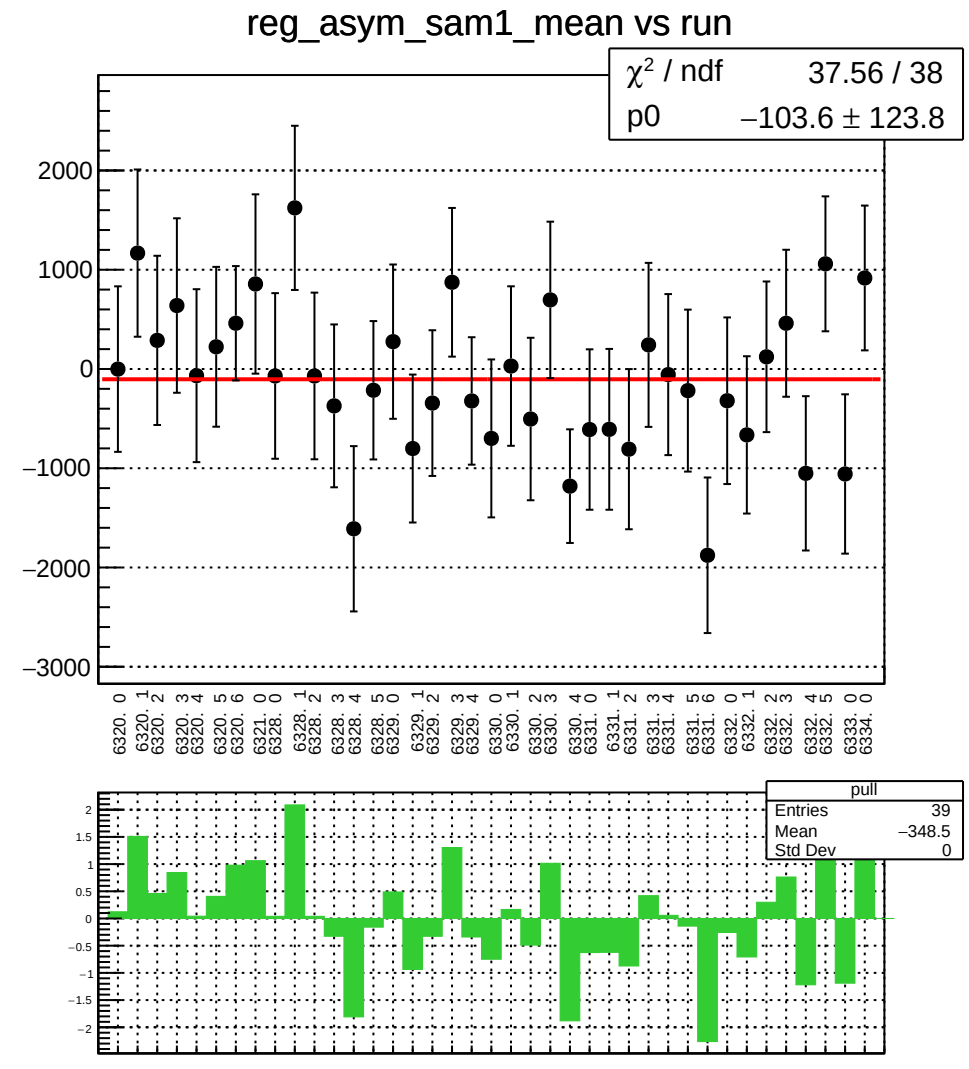

pull1D
Entries 39
Mean −5.963
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

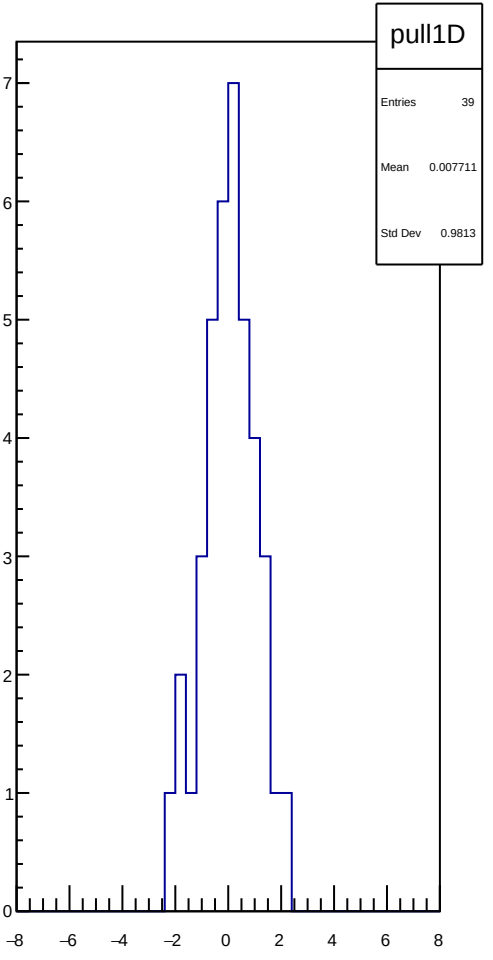

yield_sam7_rms vs run
χ² / ndf 2.021e+05 / 38
p0 0.001894 ± 2.54e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

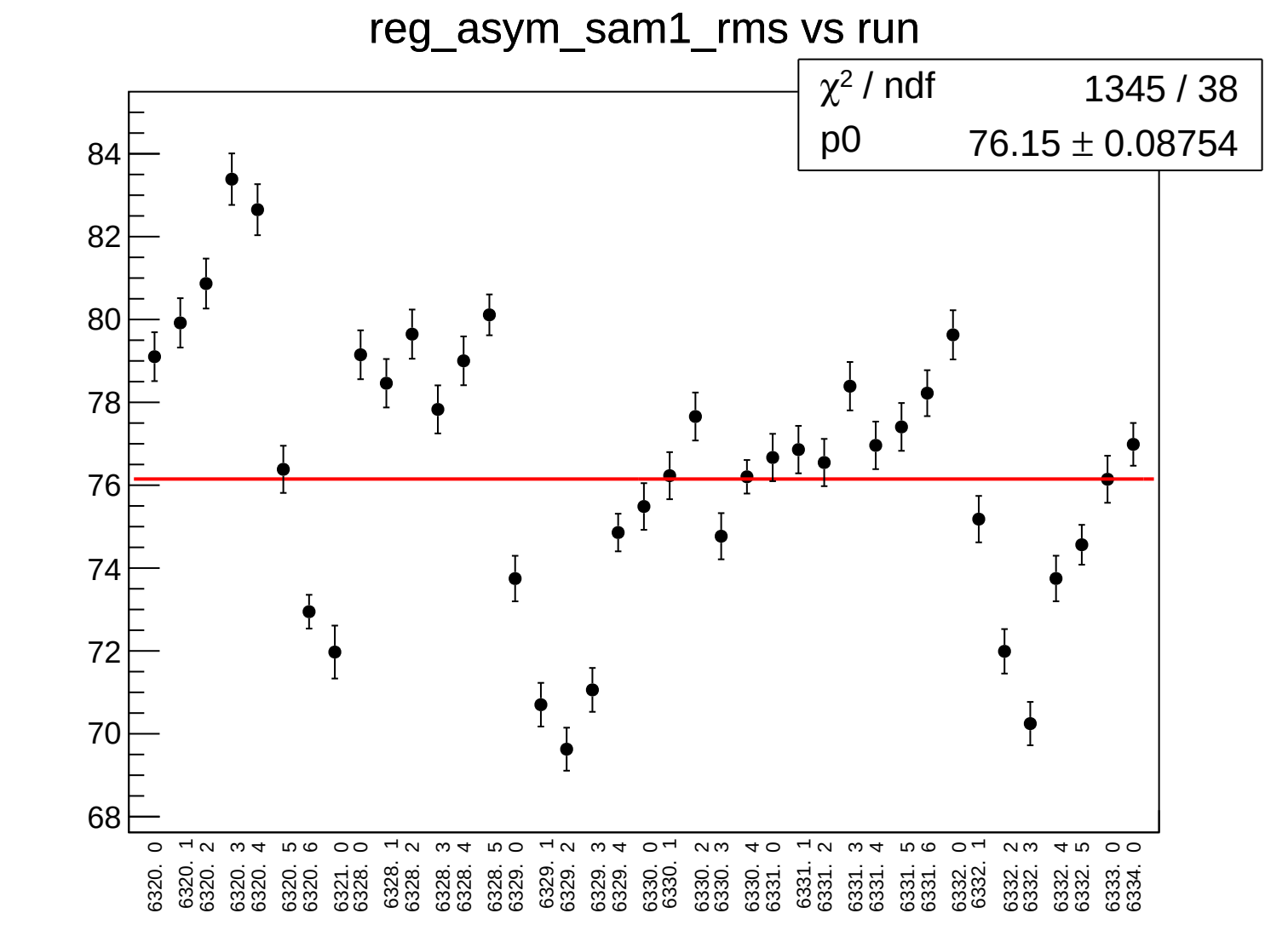

yield_sam8_mean vs run
χ² / ndf 2.501e+06 / 38
p0 9.859 ± 1.218e−05
9.94
9.92
9.9
9.88
9.86
9.84
9.82
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −50.51
Std Dev 0
800
600
400
200
0
−200
−400
−600

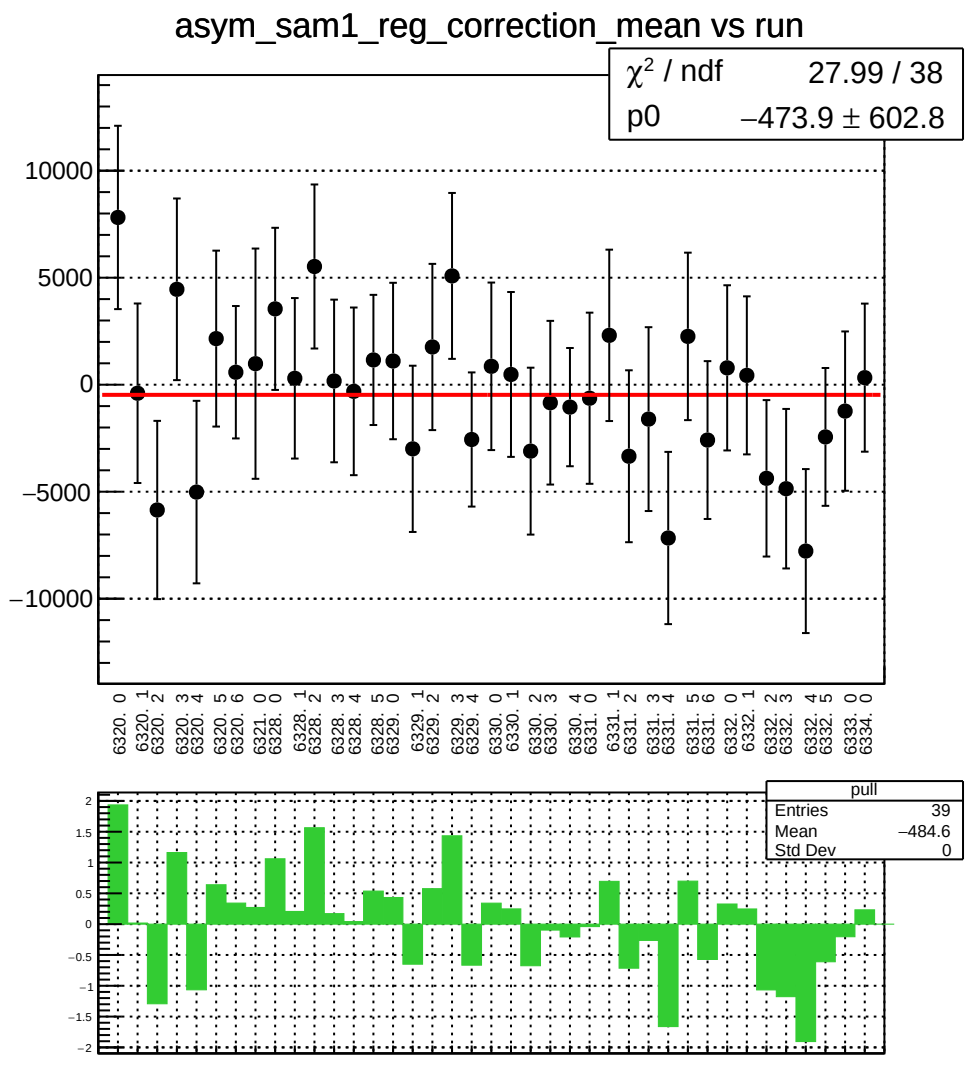

pull1D
Entries 39
Mean −1.766
Std Dev 6.939
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

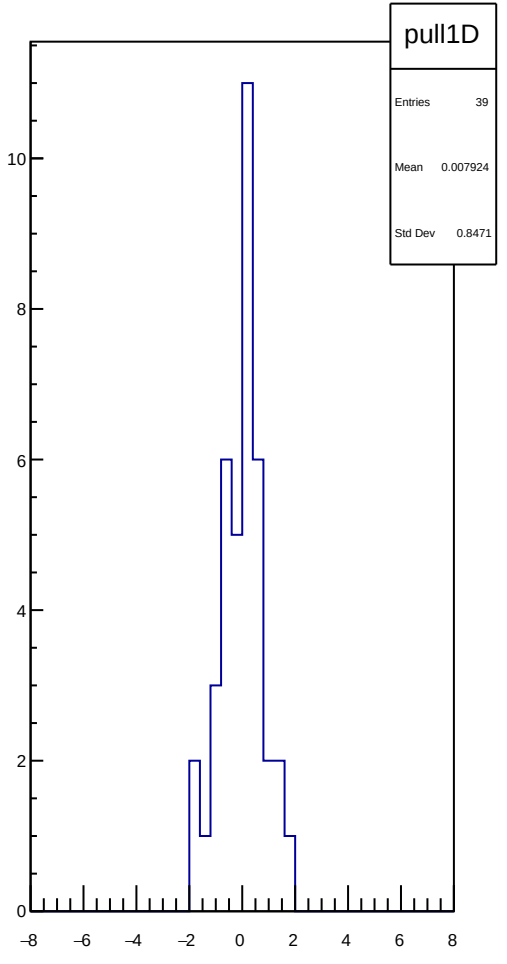

yield_sam8_rms vs run
χ² / ndf 2.024e+05 / 38
p0 0.006419 ± 8.612e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

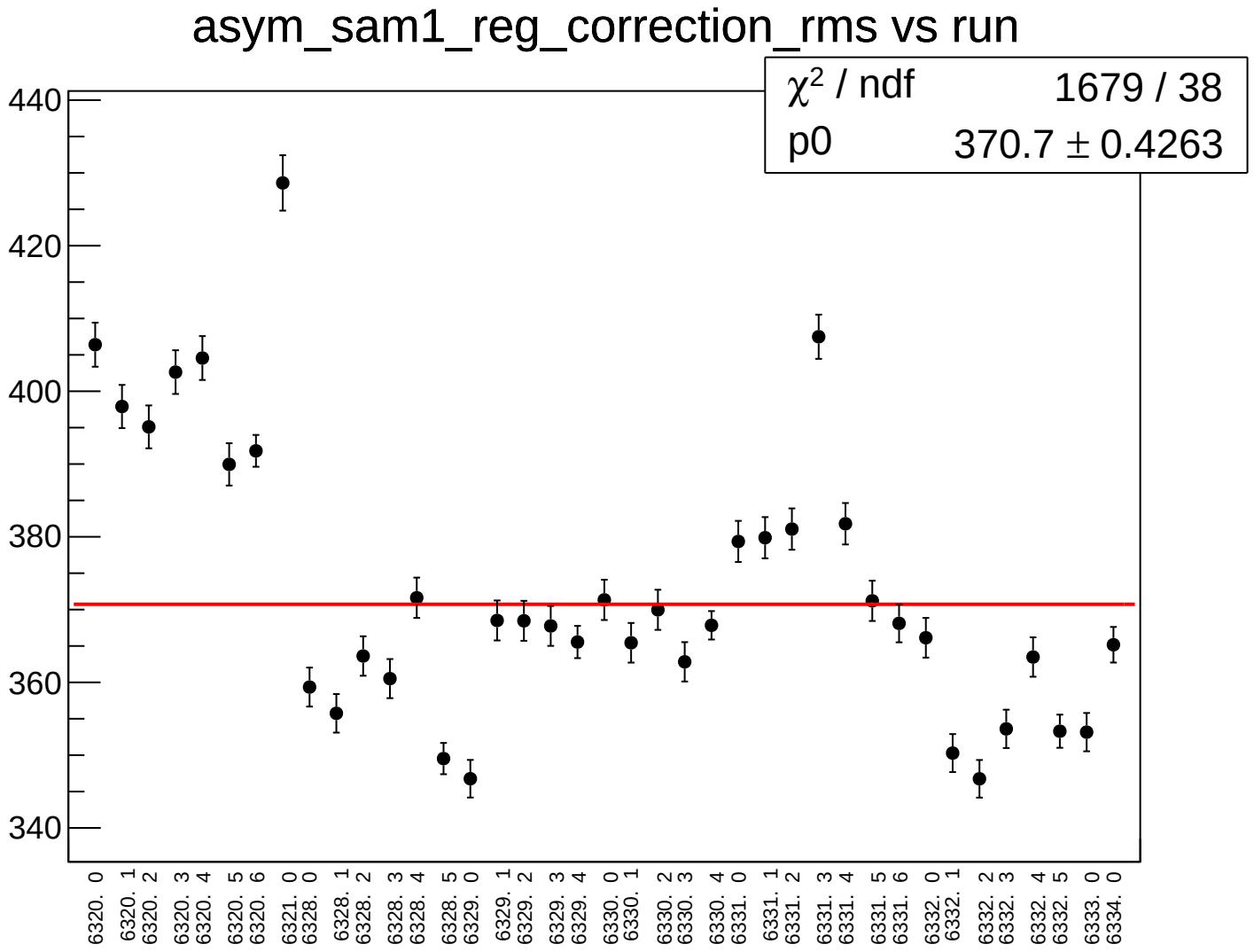

reg_asym_sam1_mean vs run
χ² / ndf 37.56 / 38
p0 −103.6 ± 123.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −348.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

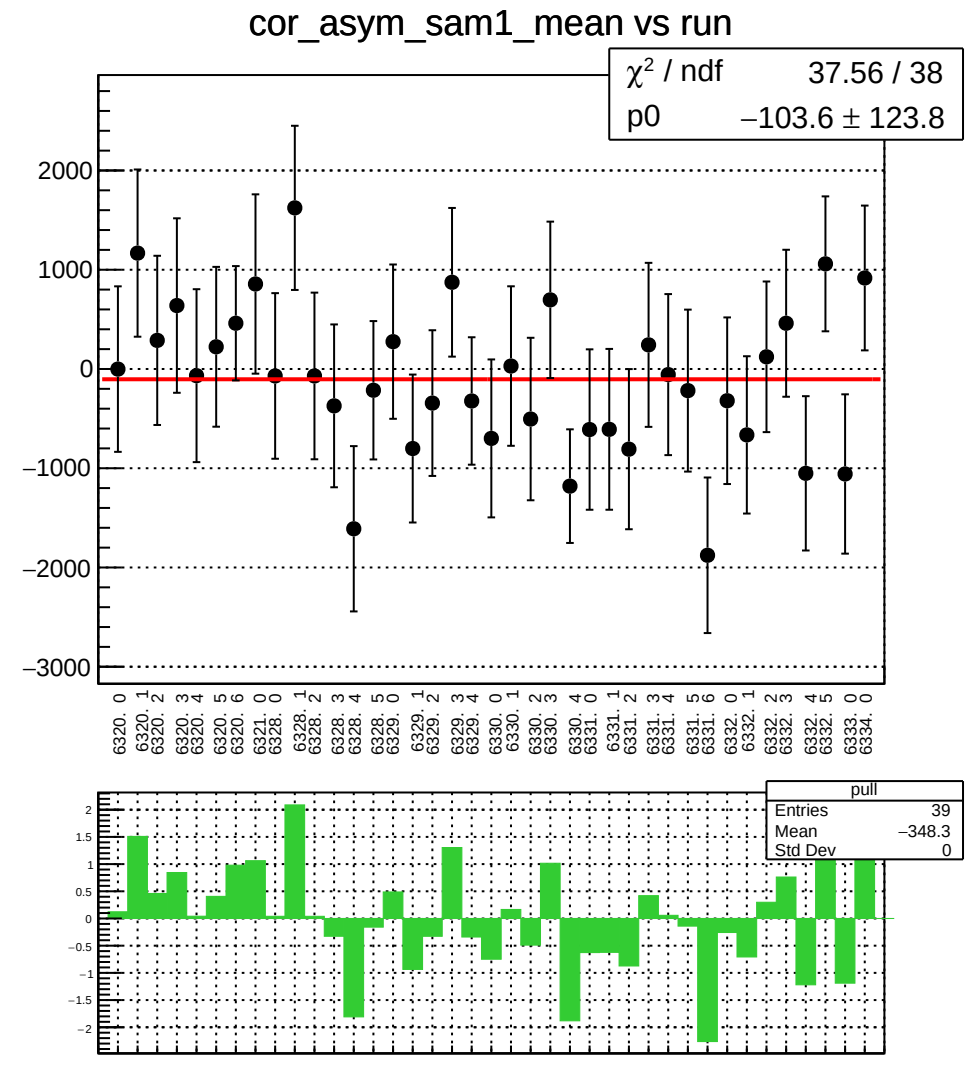

pull1D
Entries 39
Mean 0.007711
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

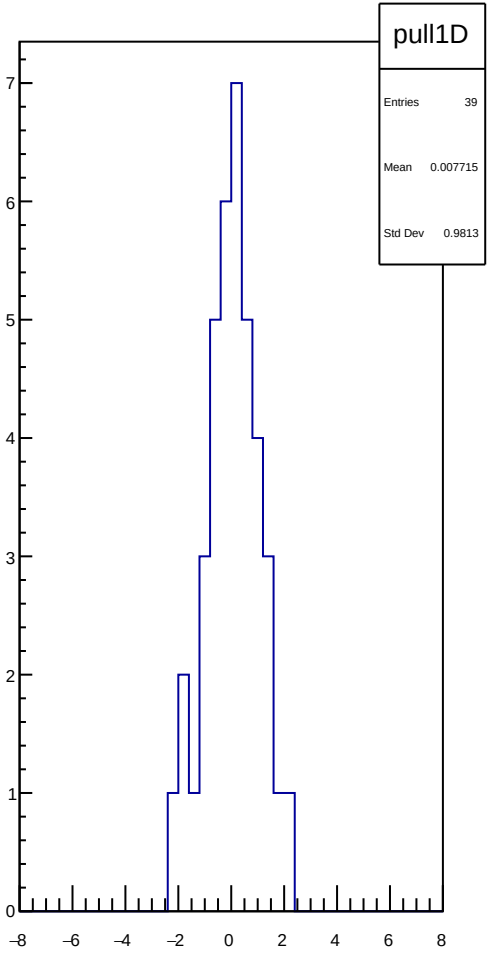

reg_asym_sam1_rms vs run
χ² / ndf 1345 / 38
p0 76.15 ± 0.08754
84
82
80
78
76
74
72
70
68
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

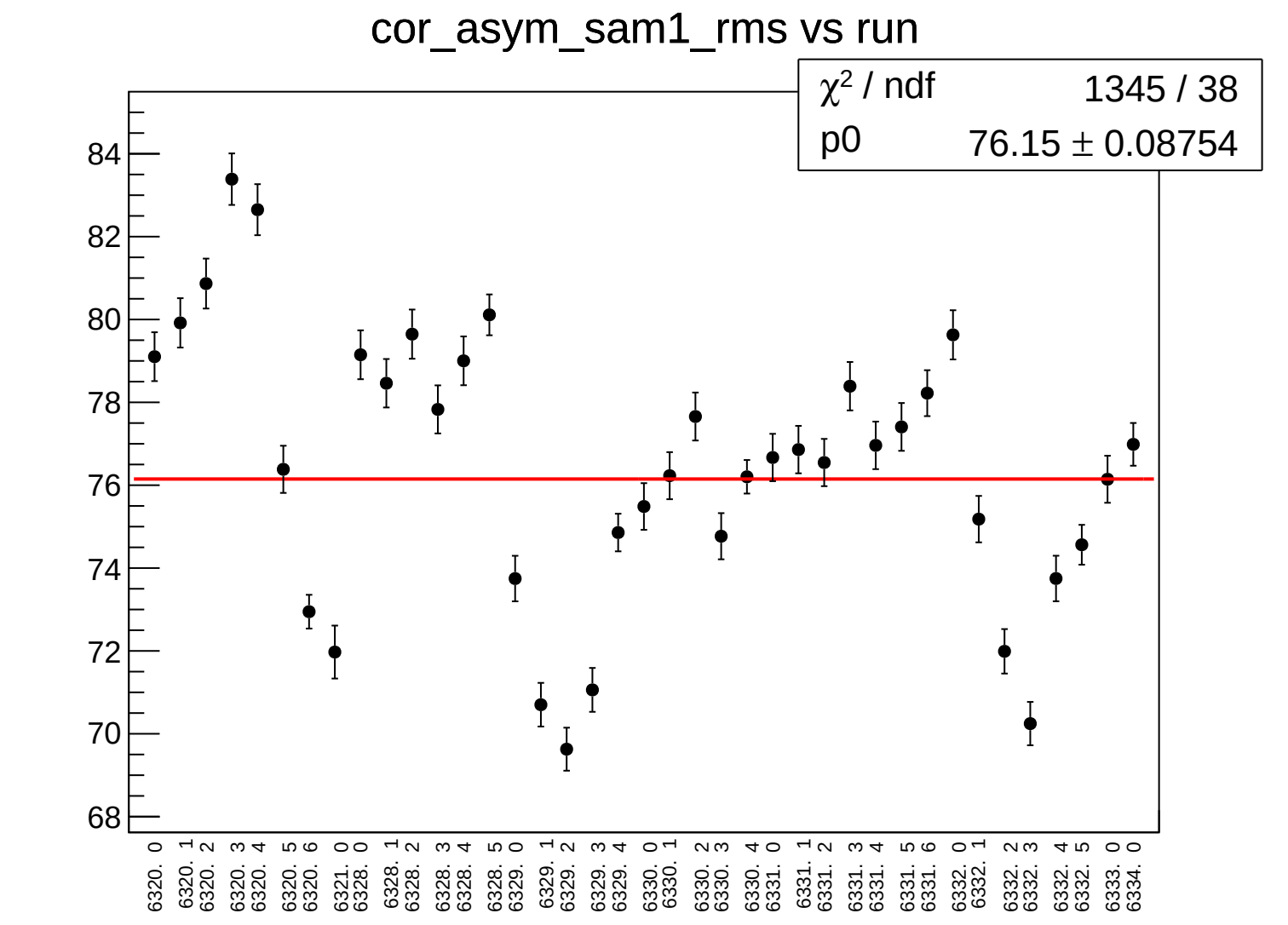

asym_sam1_reg_correction_mean vs run
χ² / ndf 27.99 / 38
p0 −473.9 ± 602.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −484.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

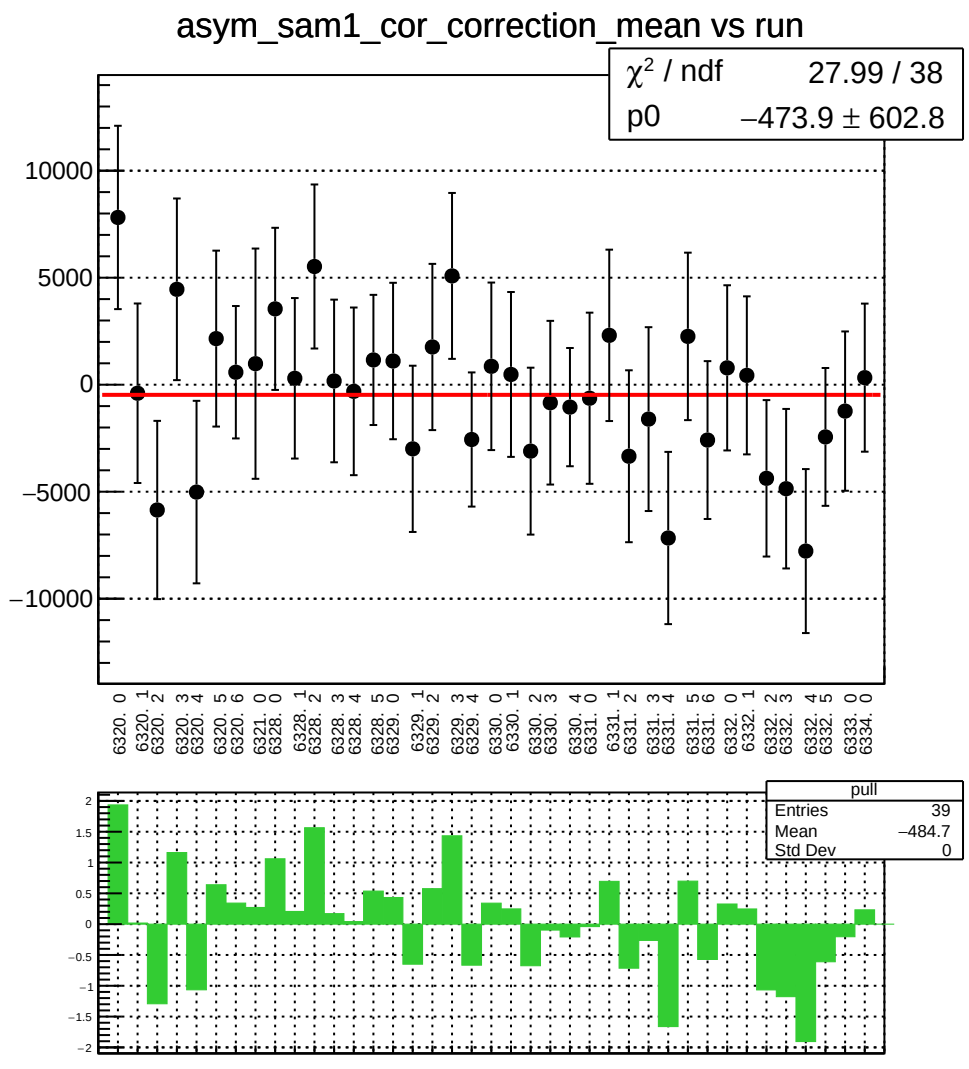

pull1D
Entries 39
Mean 0.007924
Std Dev 0.8471
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

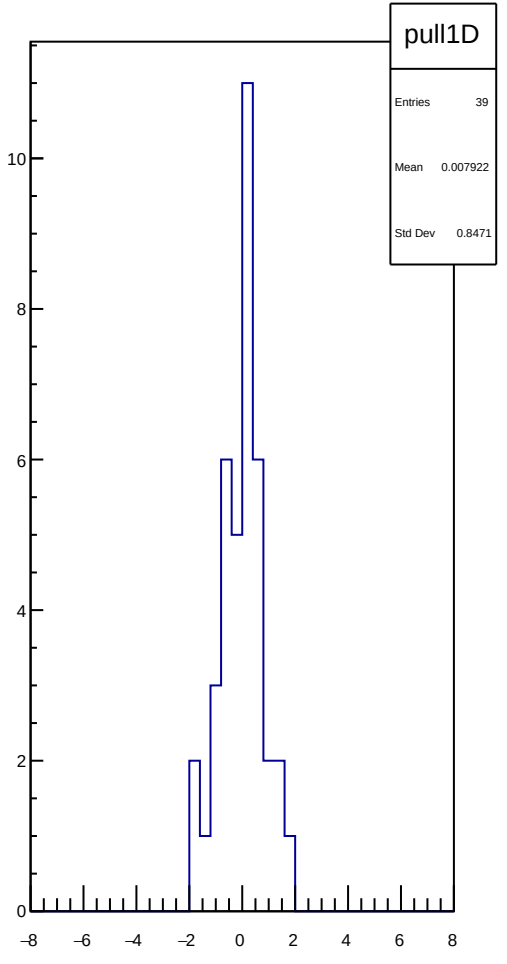

asym_sam1_reg_correction_rms vs run
χ² / ndf 1679 / 38
p0 370.7 ± 0.4263
440
420
400
380
360
340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

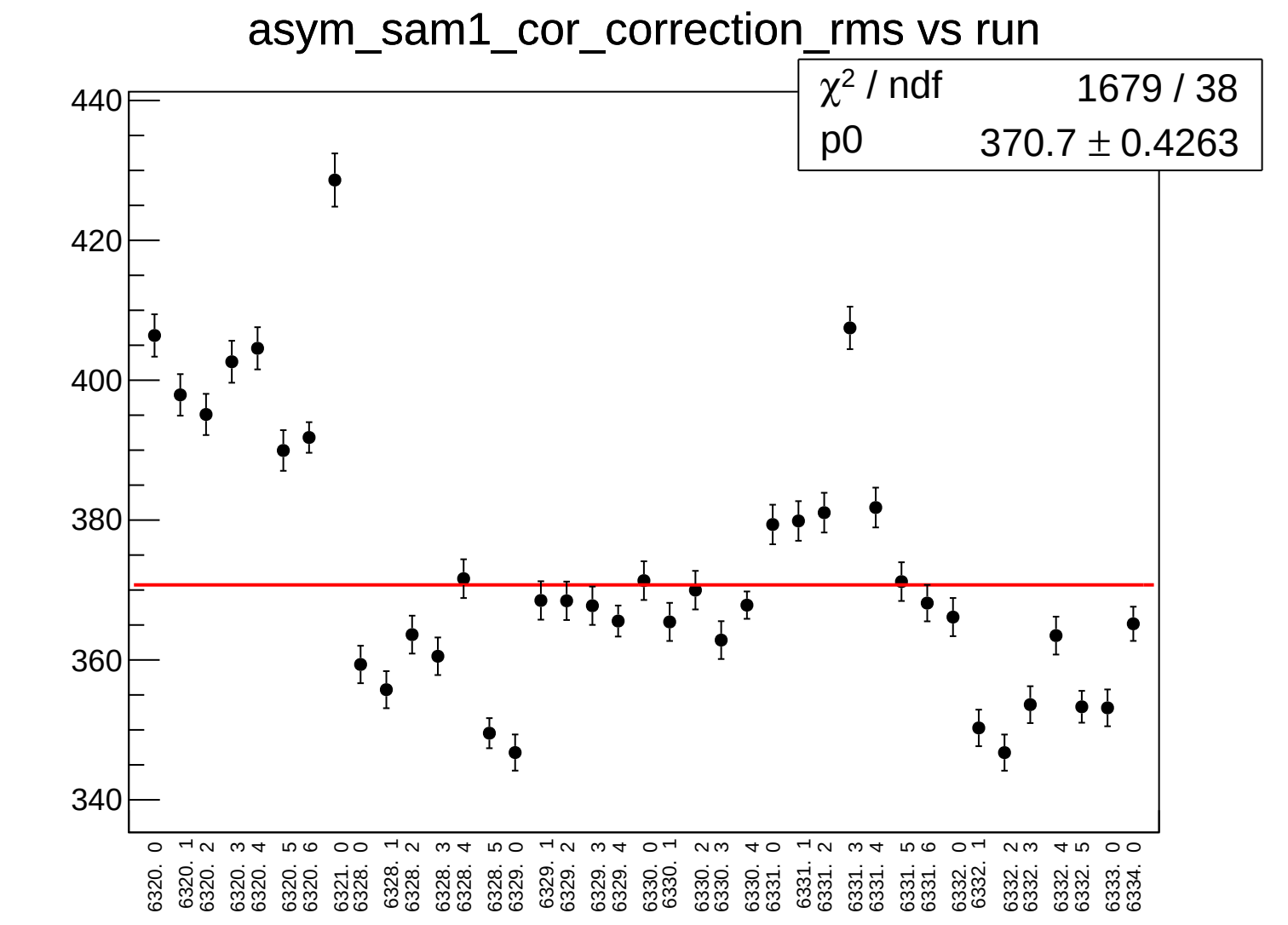

cor_asym_sam1_mean vs run
χ² / ndf 37.56 / 38
p0 −103.6 ± 123.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −348.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

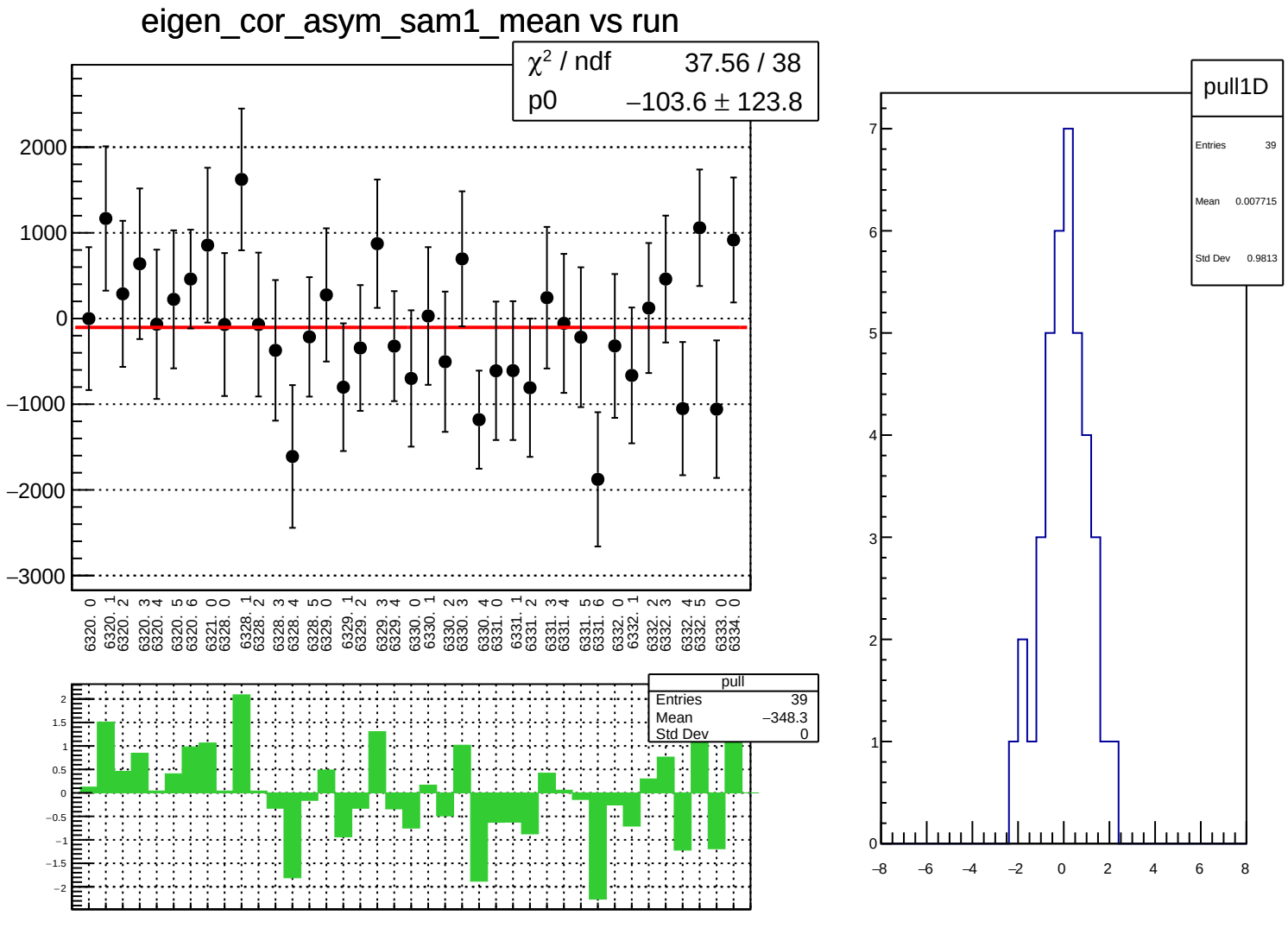

pull1D
Entries 39
Mean 0.007715
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

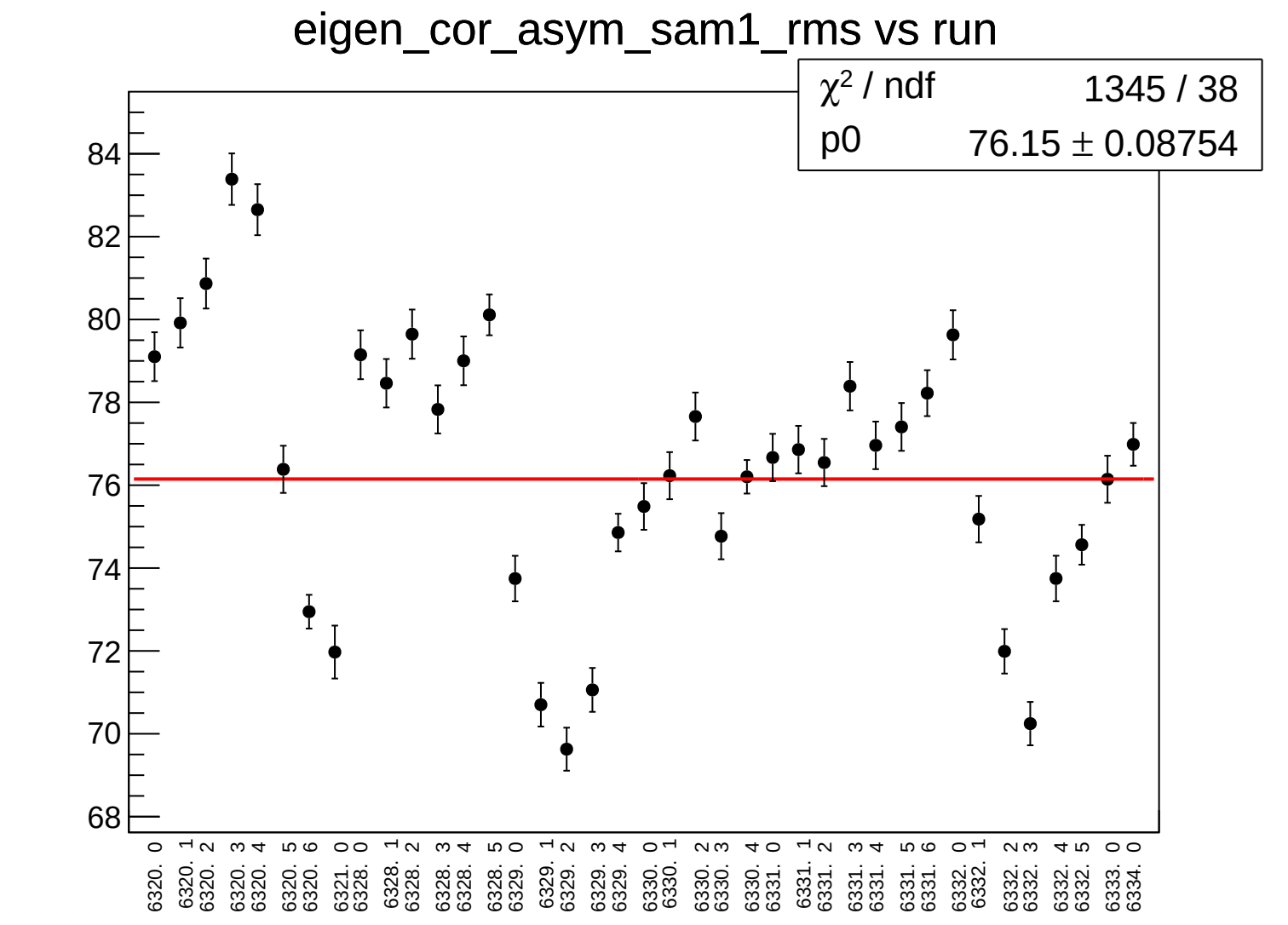

cor_asym_sam1_rms vs run
χ² / ndf 1345 / 38
p0 76.15 ± 0.08754
84
82
80
78
76
74
72
70
68
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

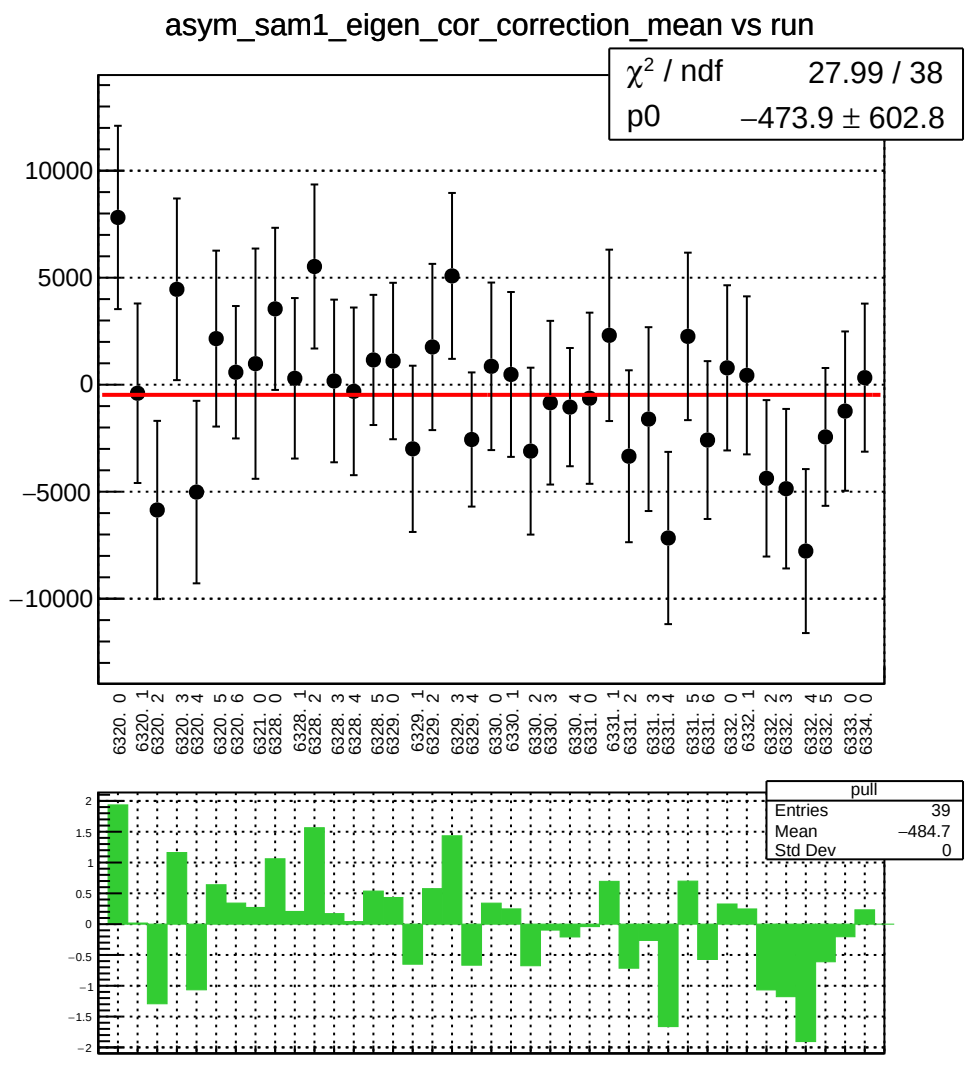

asym_sam1_cor_correction_mean vs run
χ² / ndf 27.99 / 38
p0 −473.9 ± 602.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −484.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

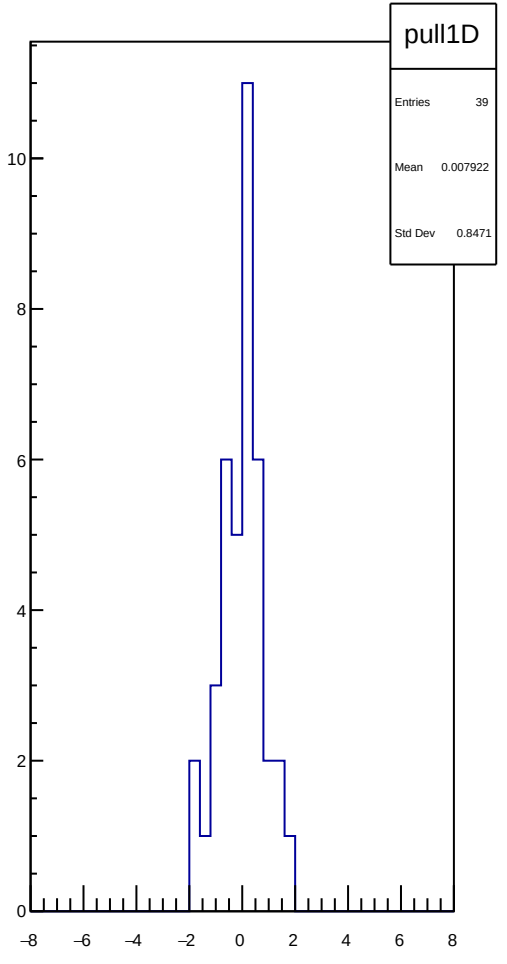

pull1D
Entries 39
Mean 0.007922
Std Dev 0.8471
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

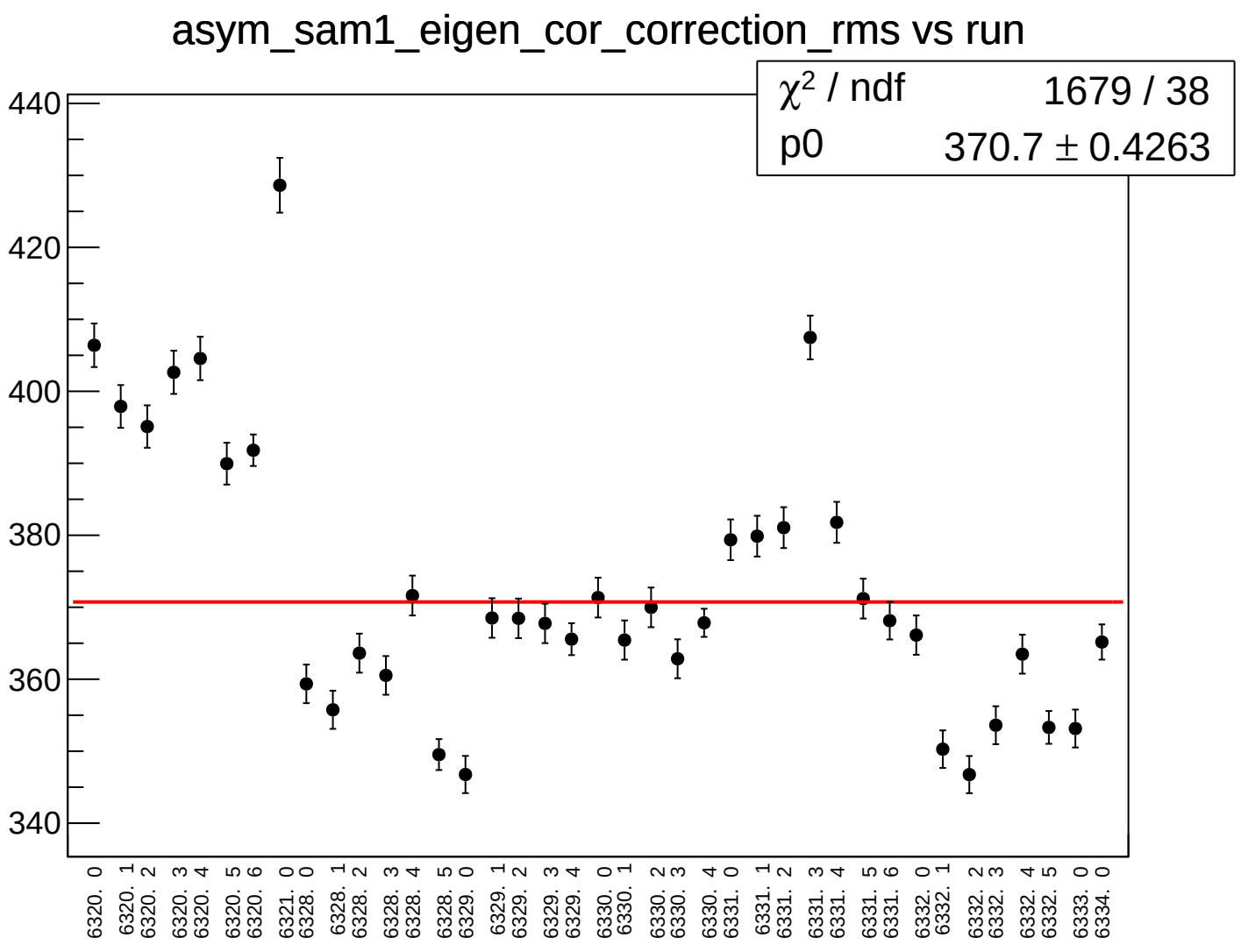

asym_sam1_cor_correction_rms vs run
χ² / ndf 1679 / 38
p0 370.7 ± 0.4263
440
420
400
380
360
340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

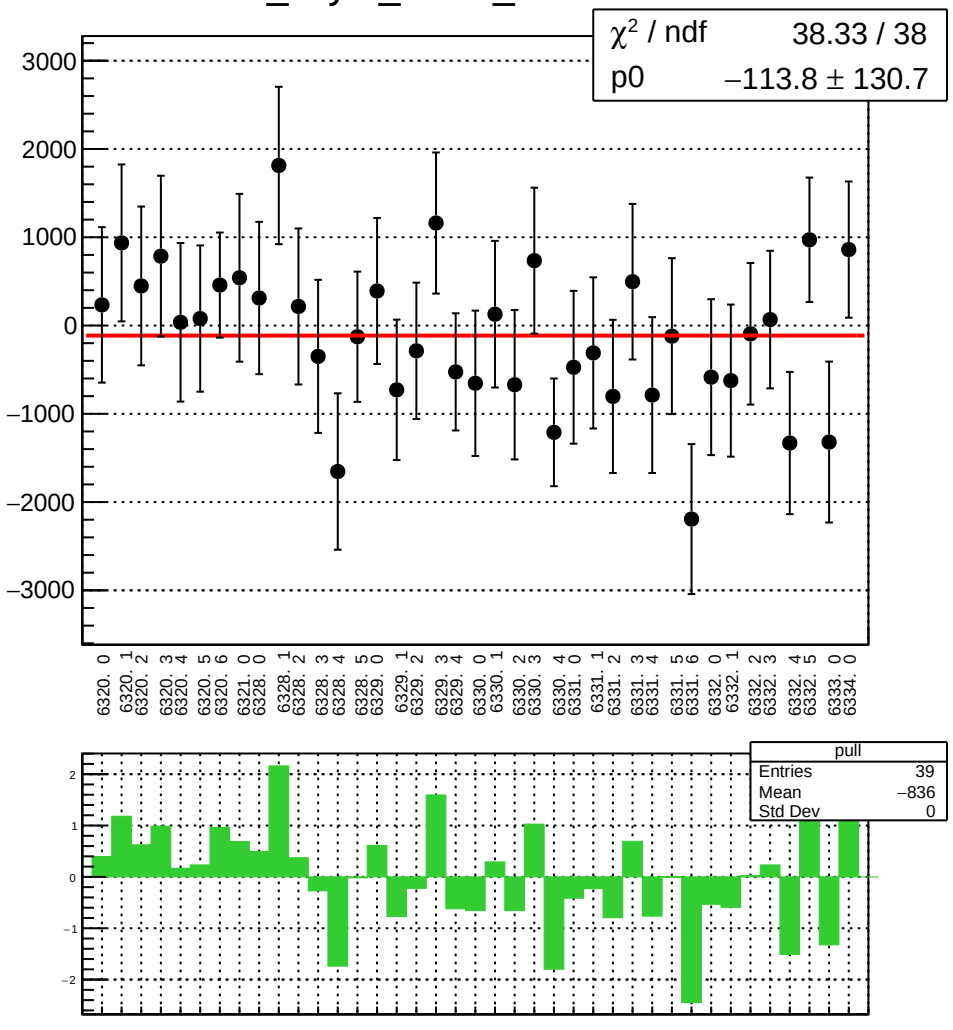

eigen_cor_asym_sam1_mean vs run
χ² / ndf 37.56 / 38
p0 −103.6 ± 123.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −348.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.007715
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

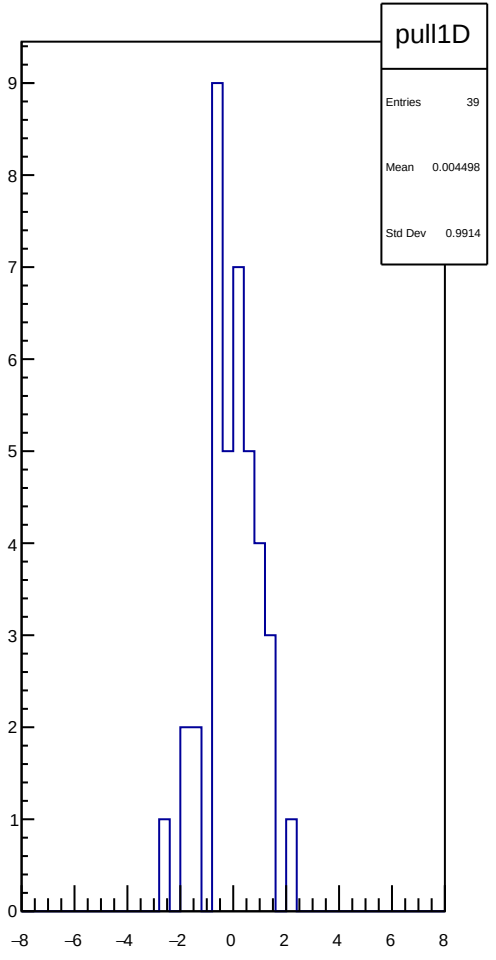

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1345 / 38
p0 76.15 ± 0.08754
84
82
80
78
76
74
72
70
68
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

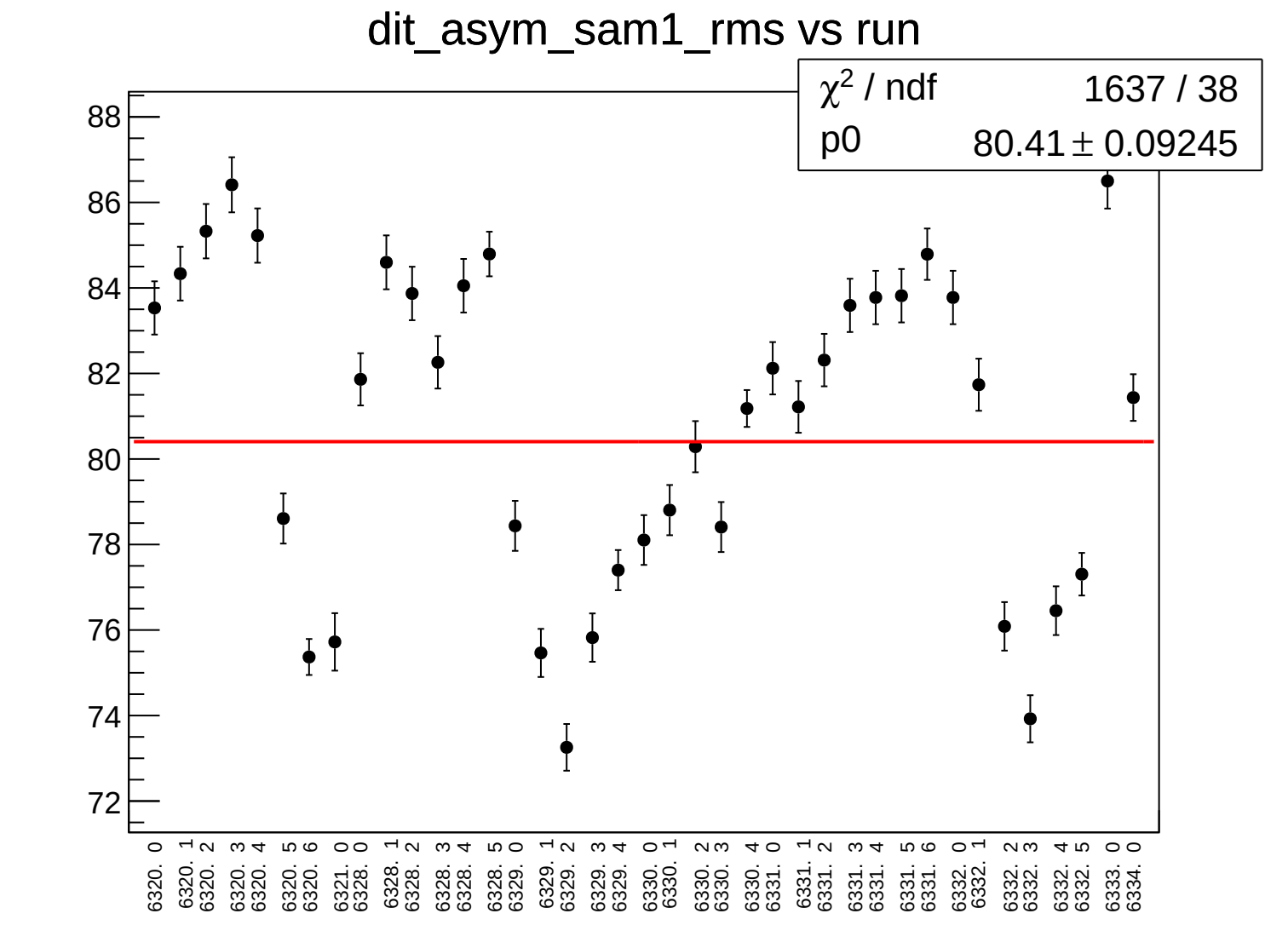

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 27.99 / 38
p0 −473.9 ± 602.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −484.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

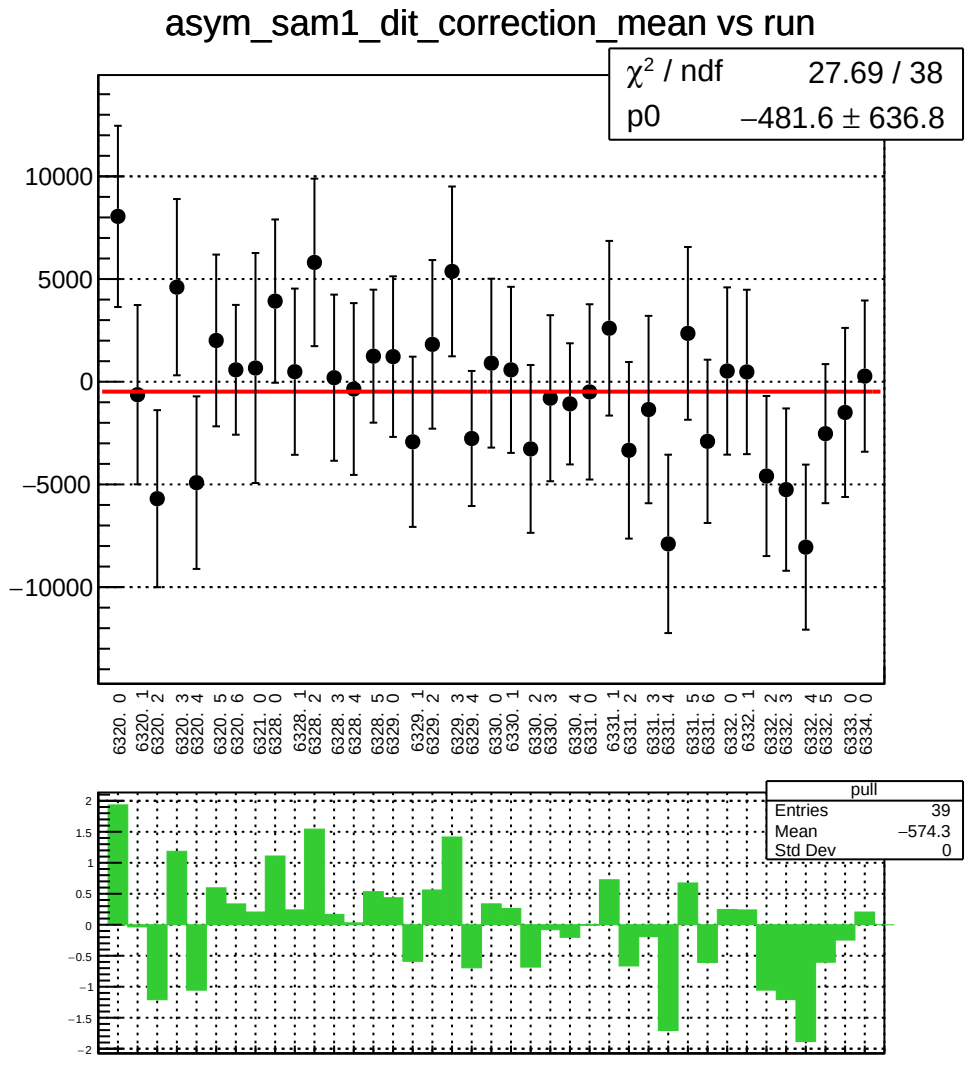

pull1D
Entries 39
Mean 0.007922
Std Dev 0.8471
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

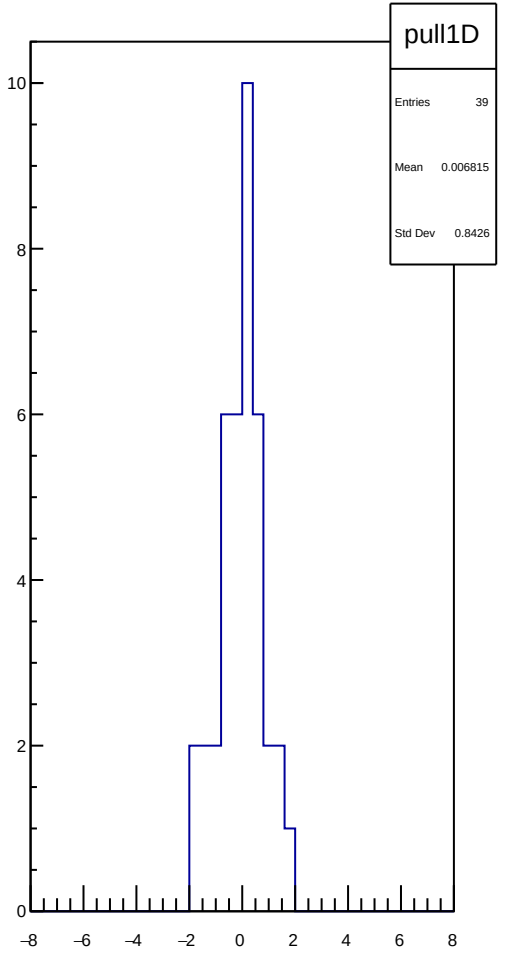

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1679 / 38
p0 370.7 ± 0.4263
440
420
400
380
360
340
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

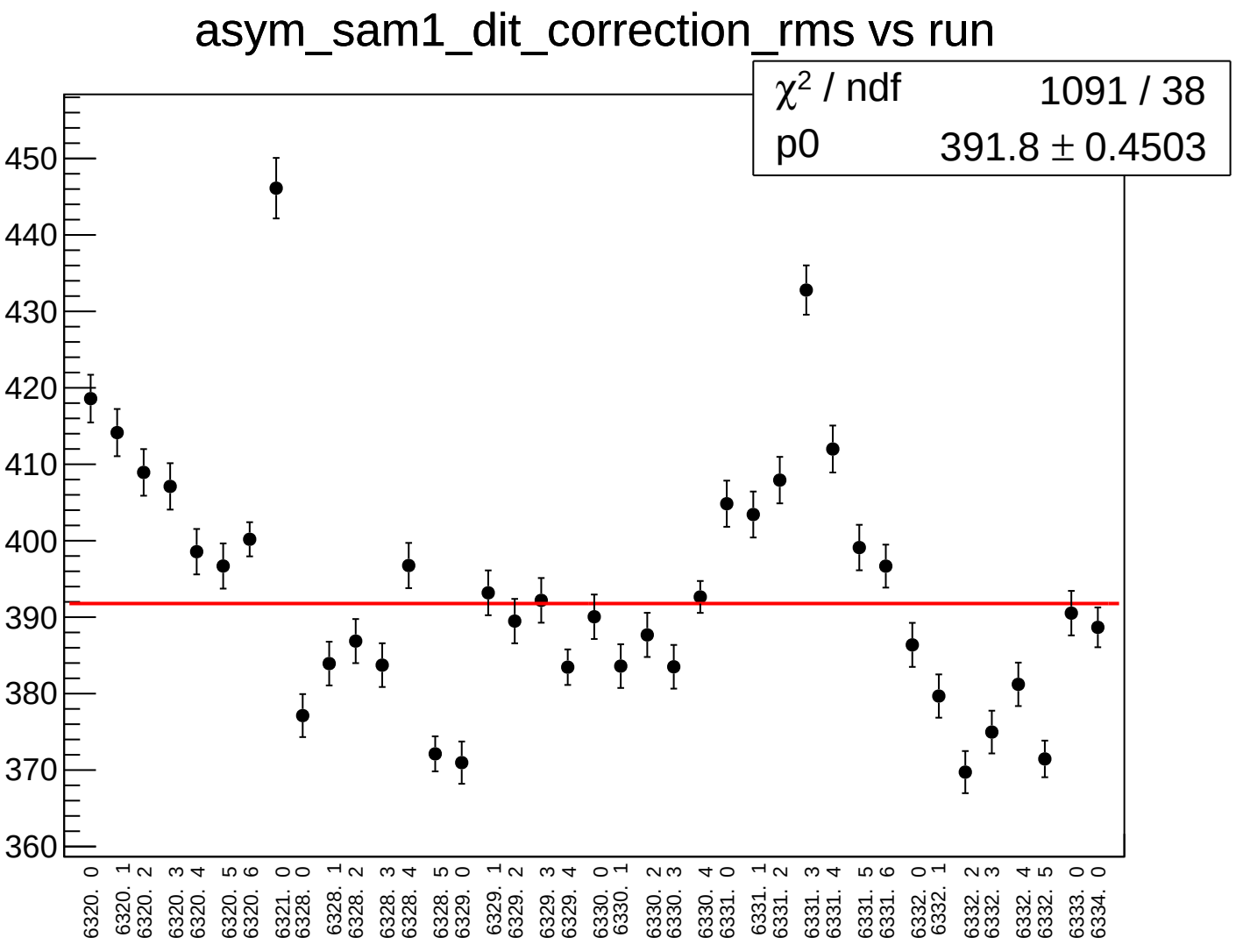

dit_asym_sam1_mean vs run
χ² / ndf 38.33 / 38
p0 −113.8 ± 130.7
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −836
Std Dev 0
2
1
0
−1
−2

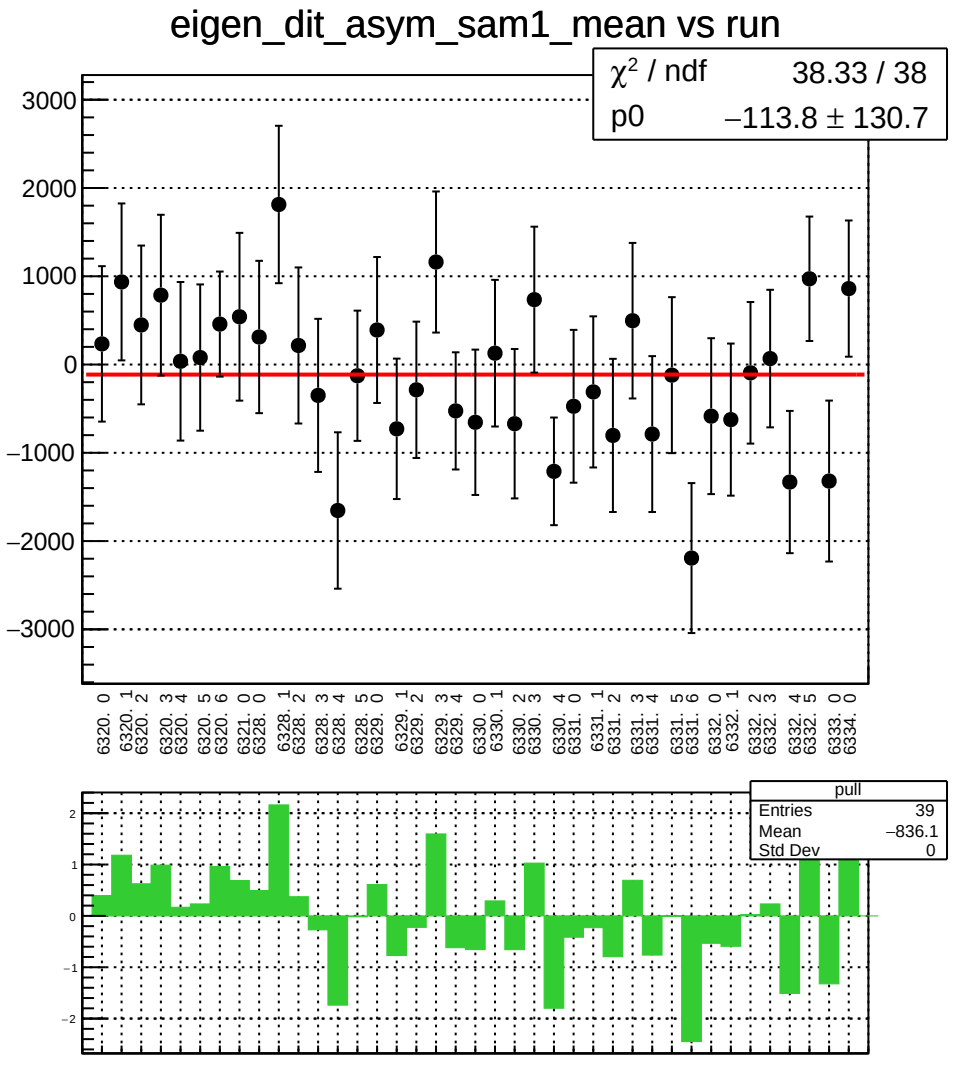

pull1D
Entries 39
Mean 0.004498
Std Dev 0.9914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

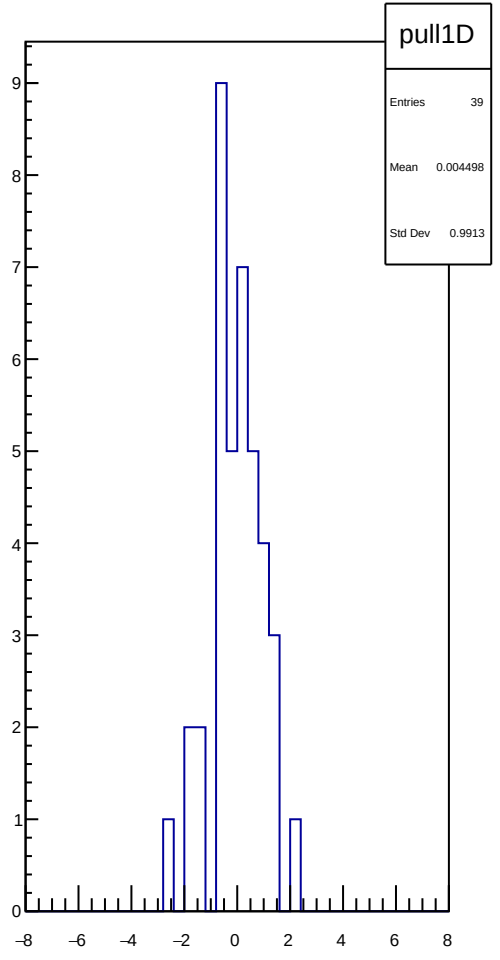

dit_asym_sam1_rms vs run
χ² / ndf 1637 / 38
p0 80.41 ± 0.09245
88
86
84
82
80
78
76
74
72
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

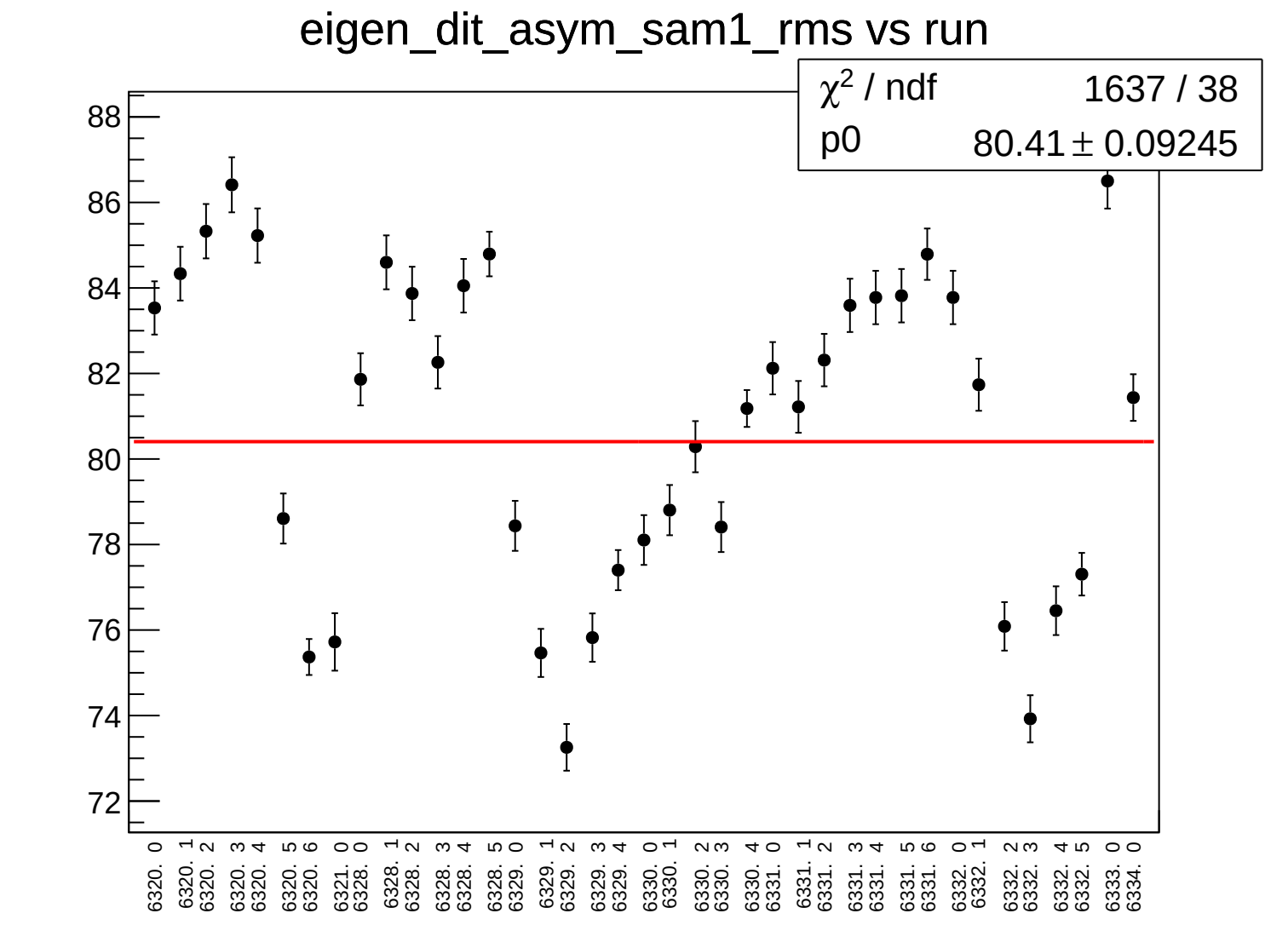

asym_sam1_dit_correction_mean vs run
χ² / ndf 27.69 / 38
p0 −481.6 ± 636.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −574.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

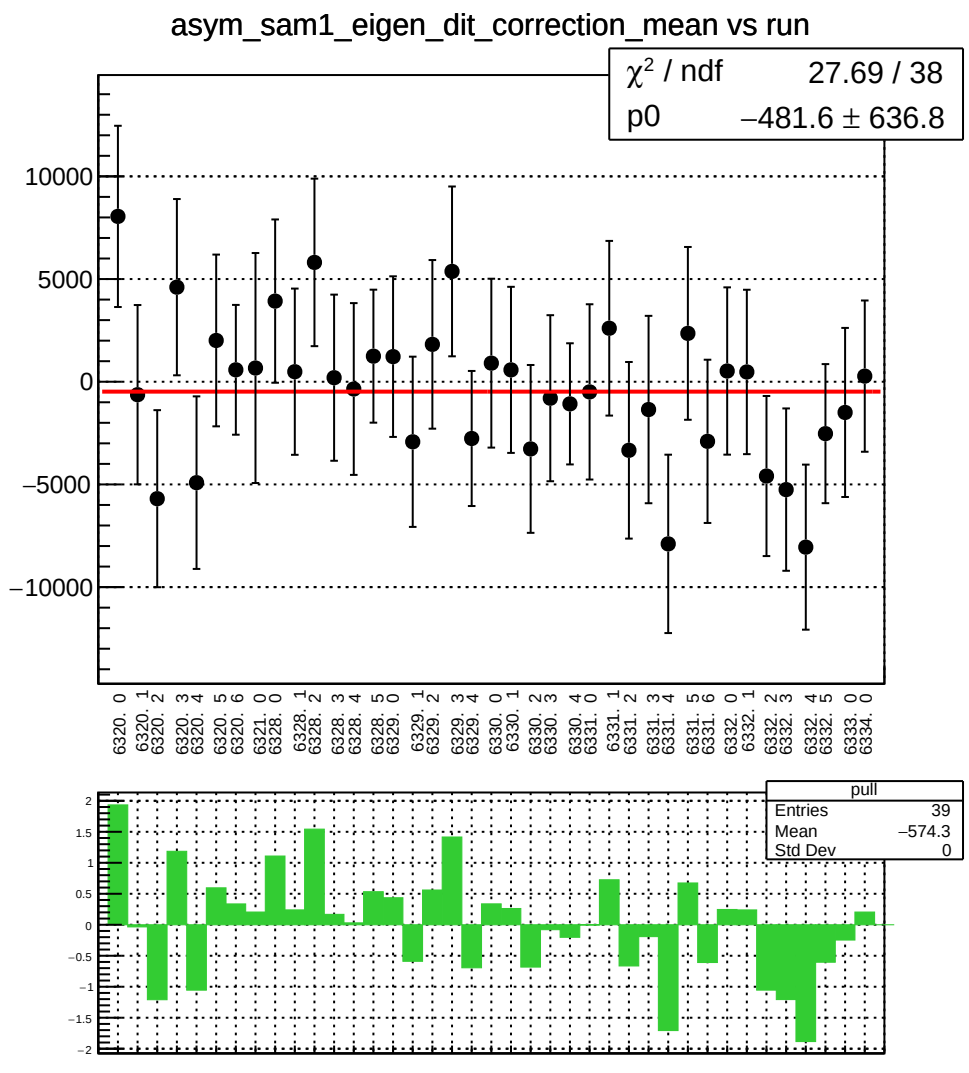

pull1D
Entries 39
Mean 0.006815
Std Dev 0.8426
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

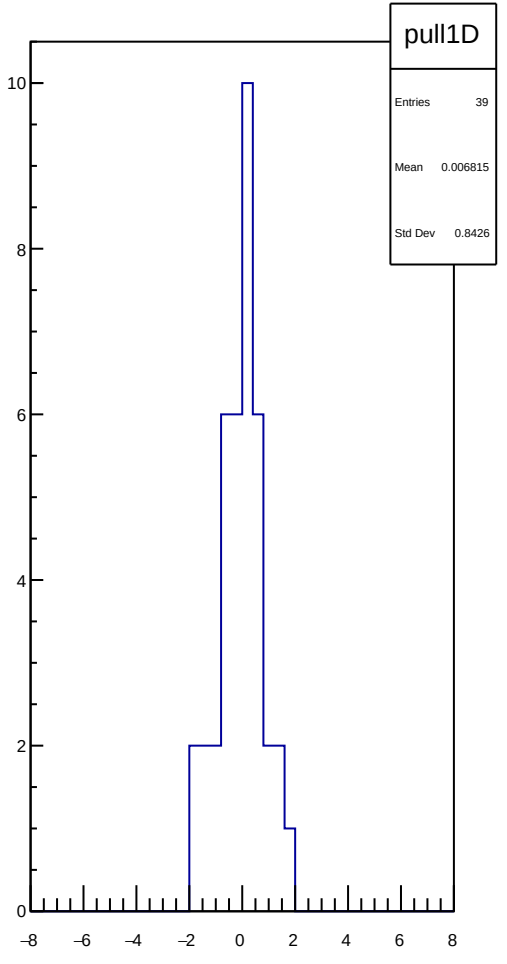

asym_sam1_dit_correction_rms vs run
χ² / ndf 1091 / 38
p0 391.8 ± 0.4503
450
440
430
420
410
400
390
380
370
360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

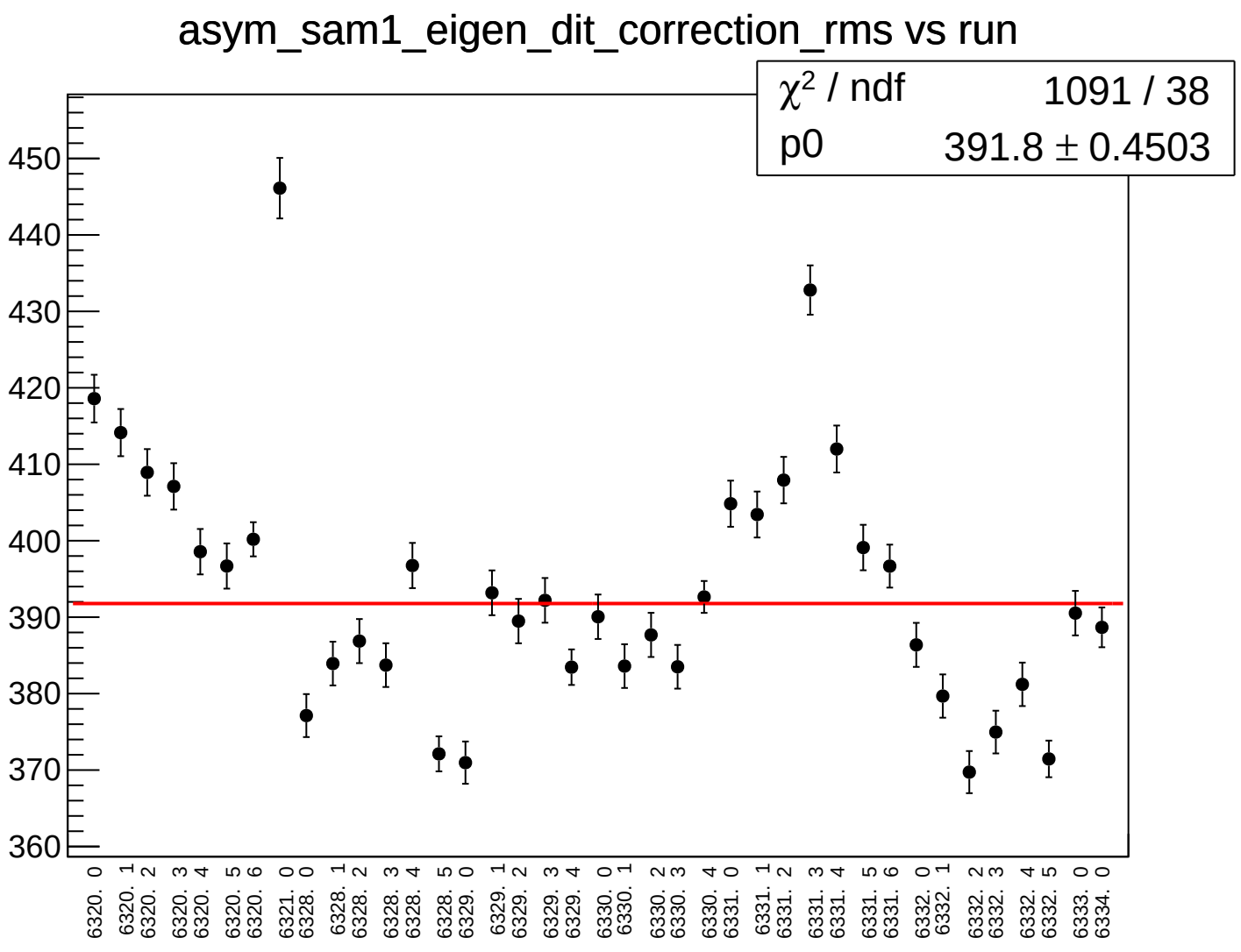

eigen_dit_asym_sam1_mean vs run
χ² / ndf 38.33 / 38
p0 −113.8 ± 130.7
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −836.1
Std Dev 0
2
1
0
−1
−2

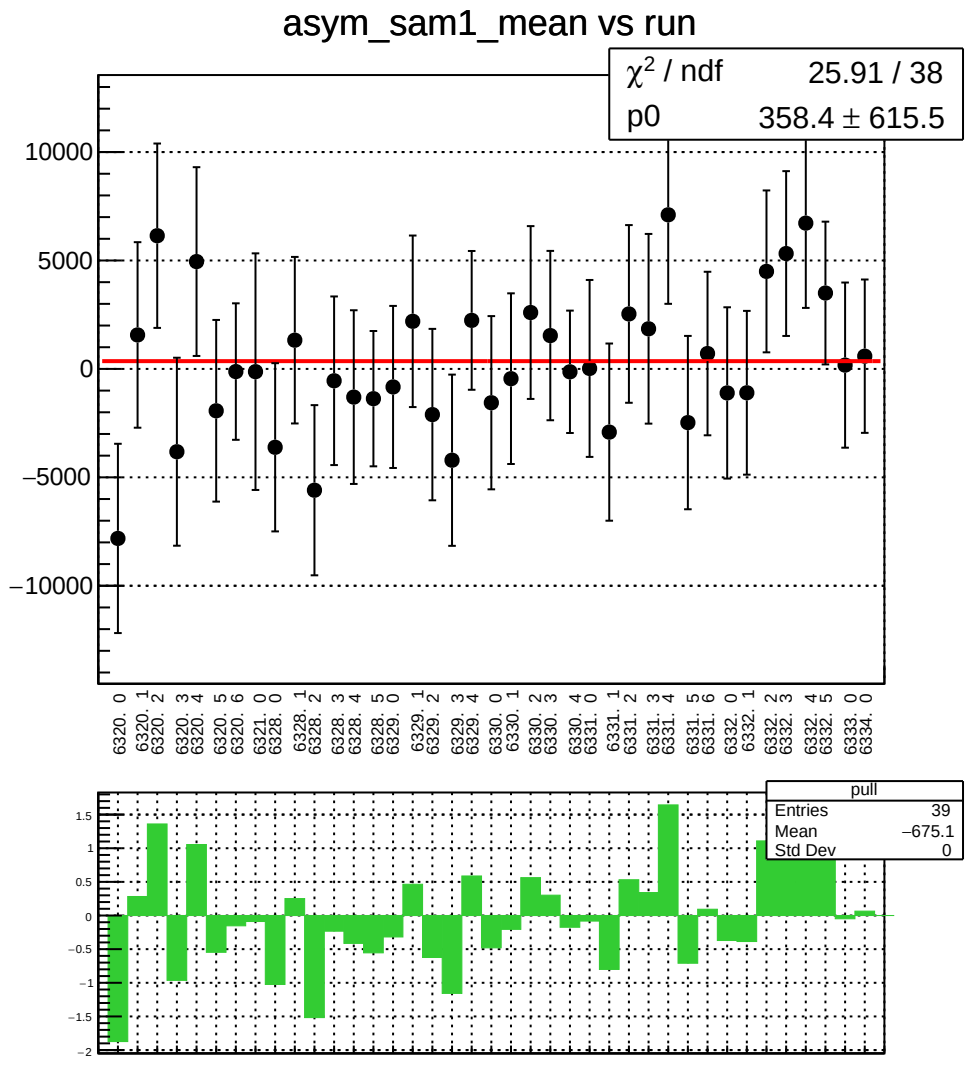

pull1D
Entries 39
Mean 0.004498
Std Dev 0.9913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

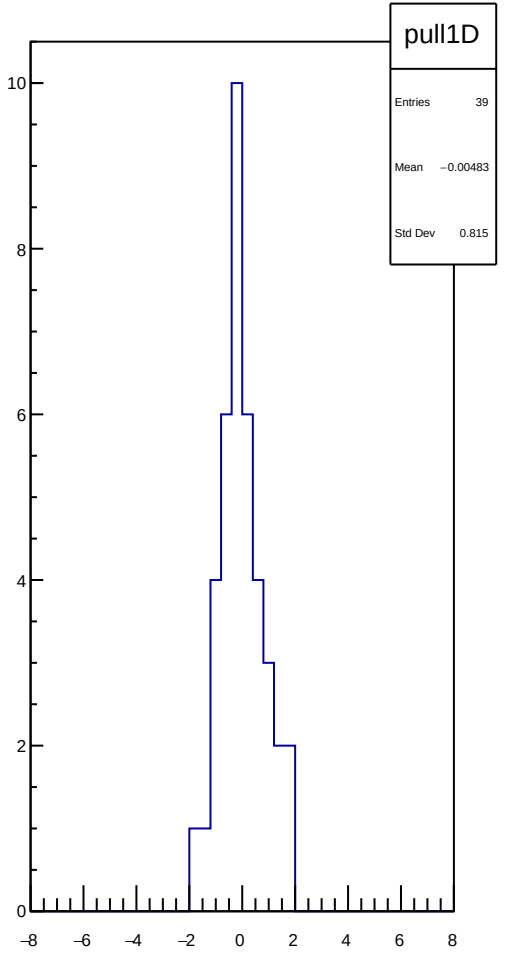

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1637 / 38
p0 80.41 ± 0.09245
88
86
84
82
80
78
76
74
72
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

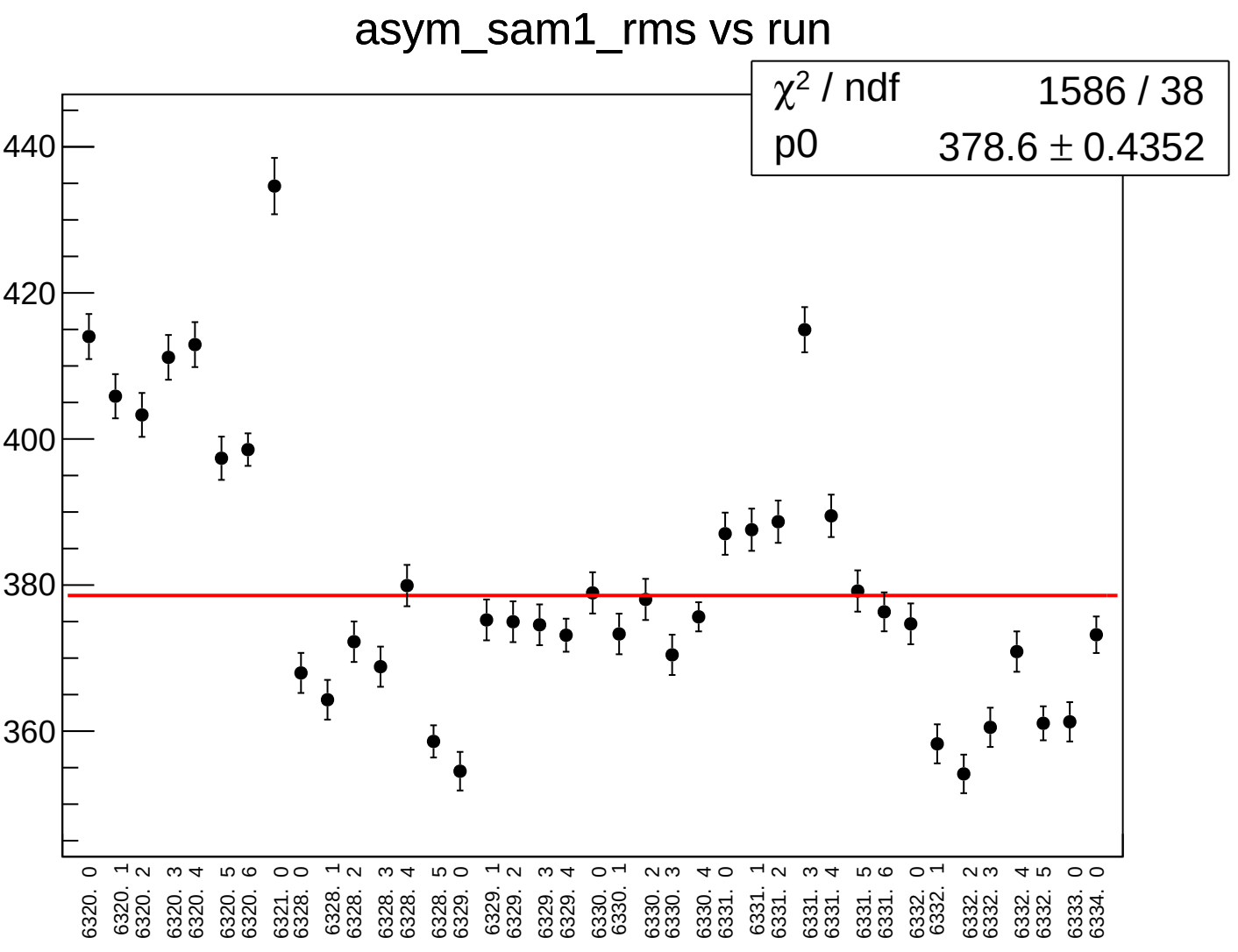

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 27.69 / 38
p0 −481.6 ± 636.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −574.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

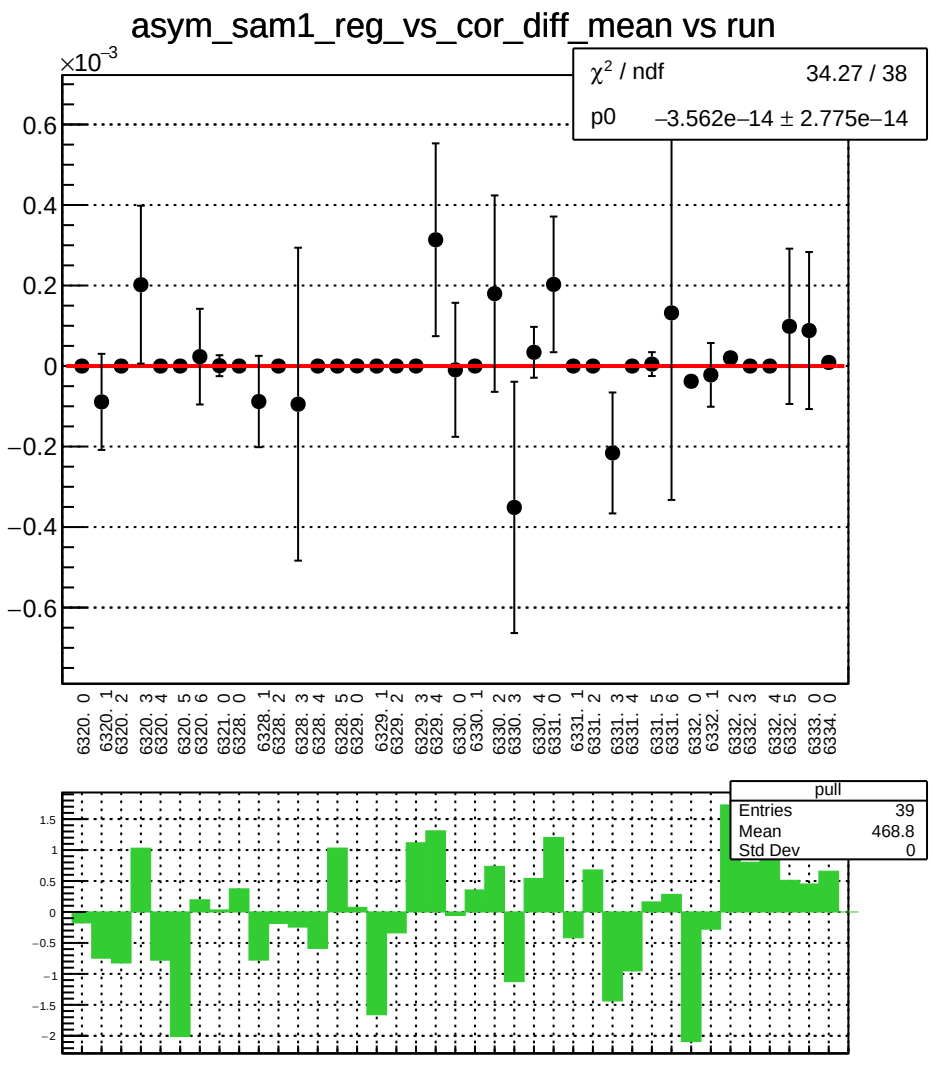

pull1D
Entries 39
Mean 0.006815
Std Dev 0.8426
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

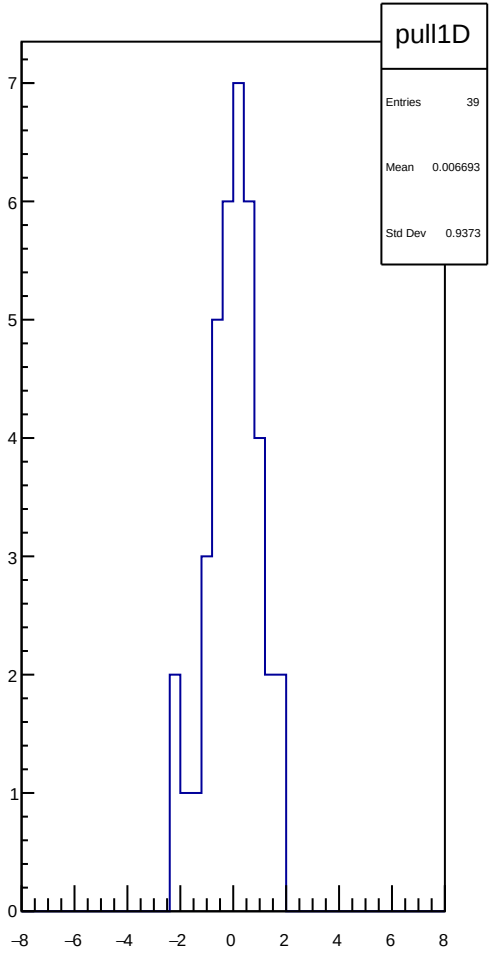

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1091 / 38
p0 391.8 ± 0.4503
450
440
430
420
410
400
390
380
370
360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

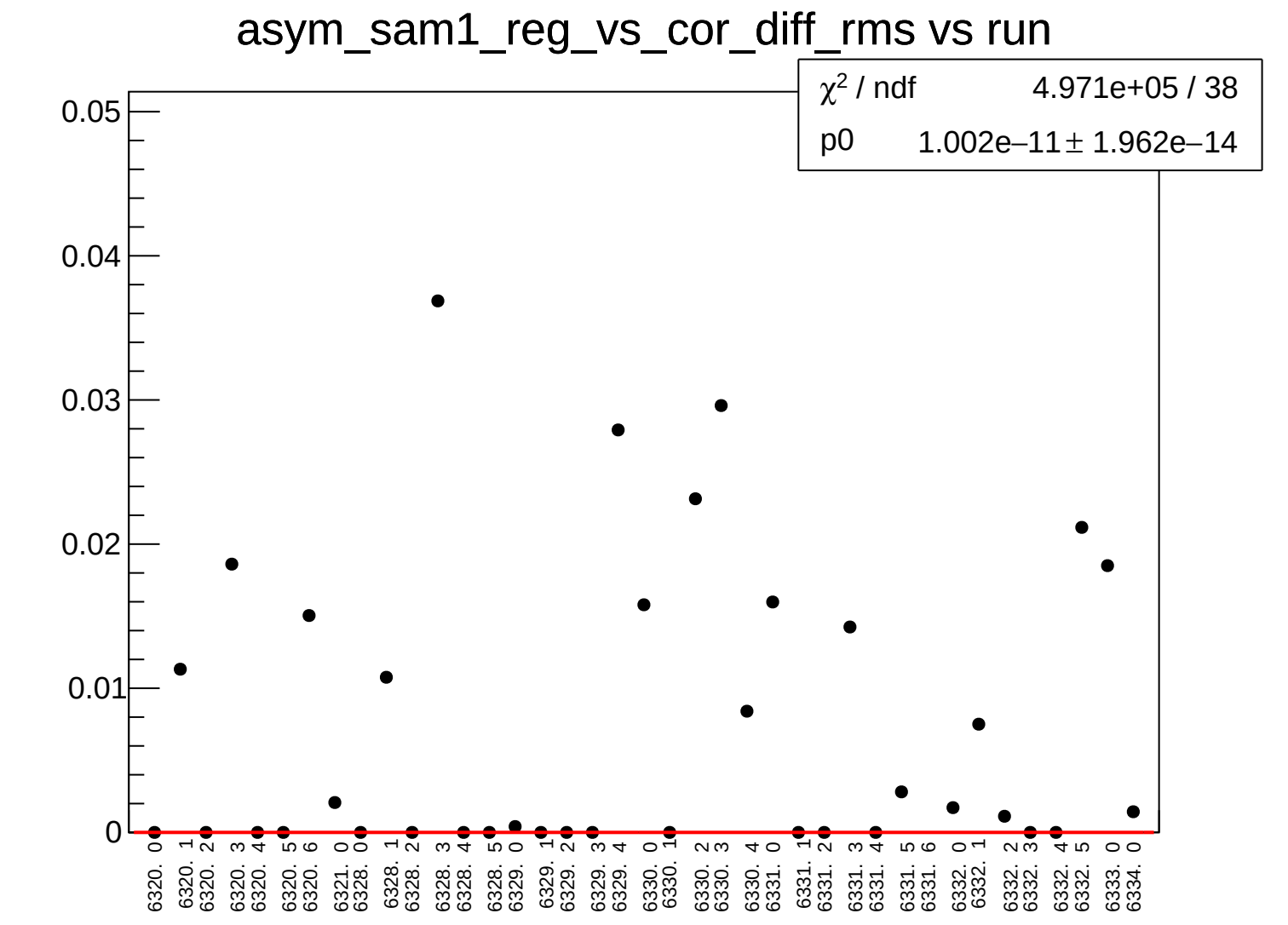

asym_sam1_mean vs run
χ² / ndf 25.91 / 38
p0 358.4 ± 615.5
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −675.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

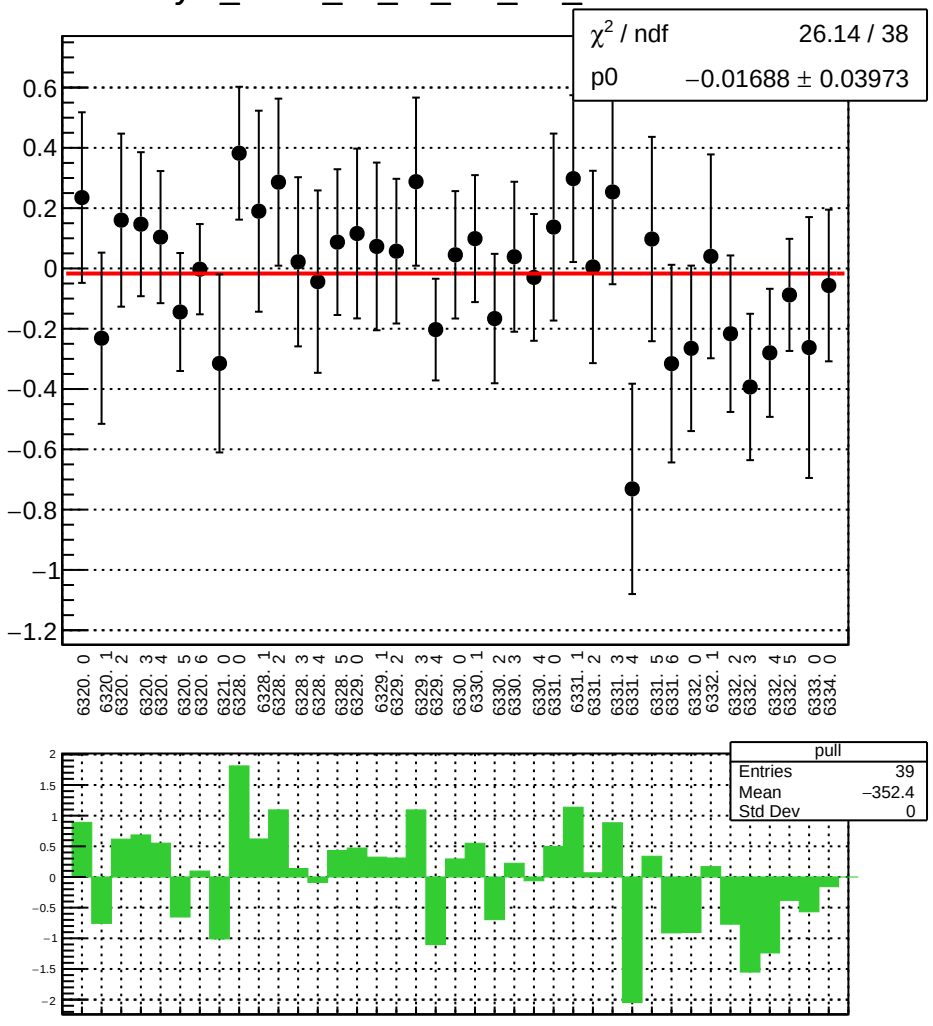

pull1D
Entries 39
Mean −0.00483
Std Dev 0.815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

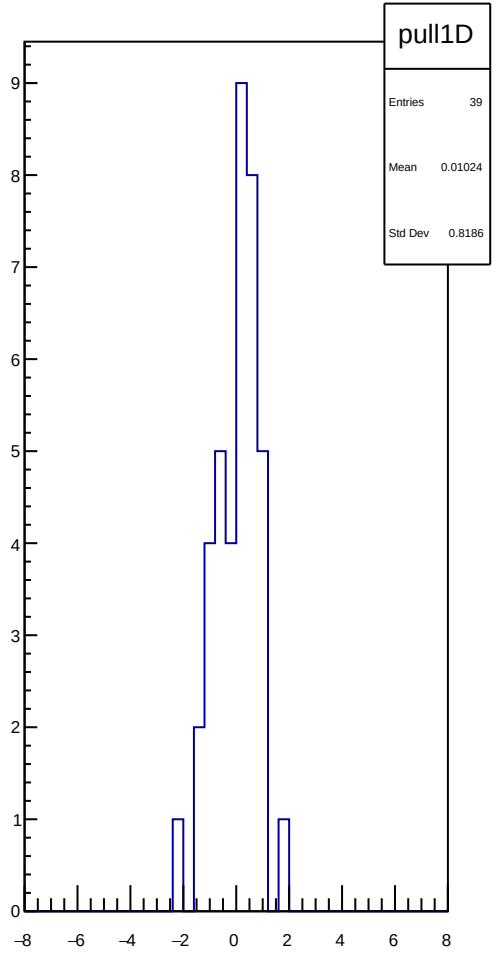

asym_sam1_rms vs run
χ² / ndf 1586 / 38
p0 378.6 ± 0.4352
440
420
400
380
360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

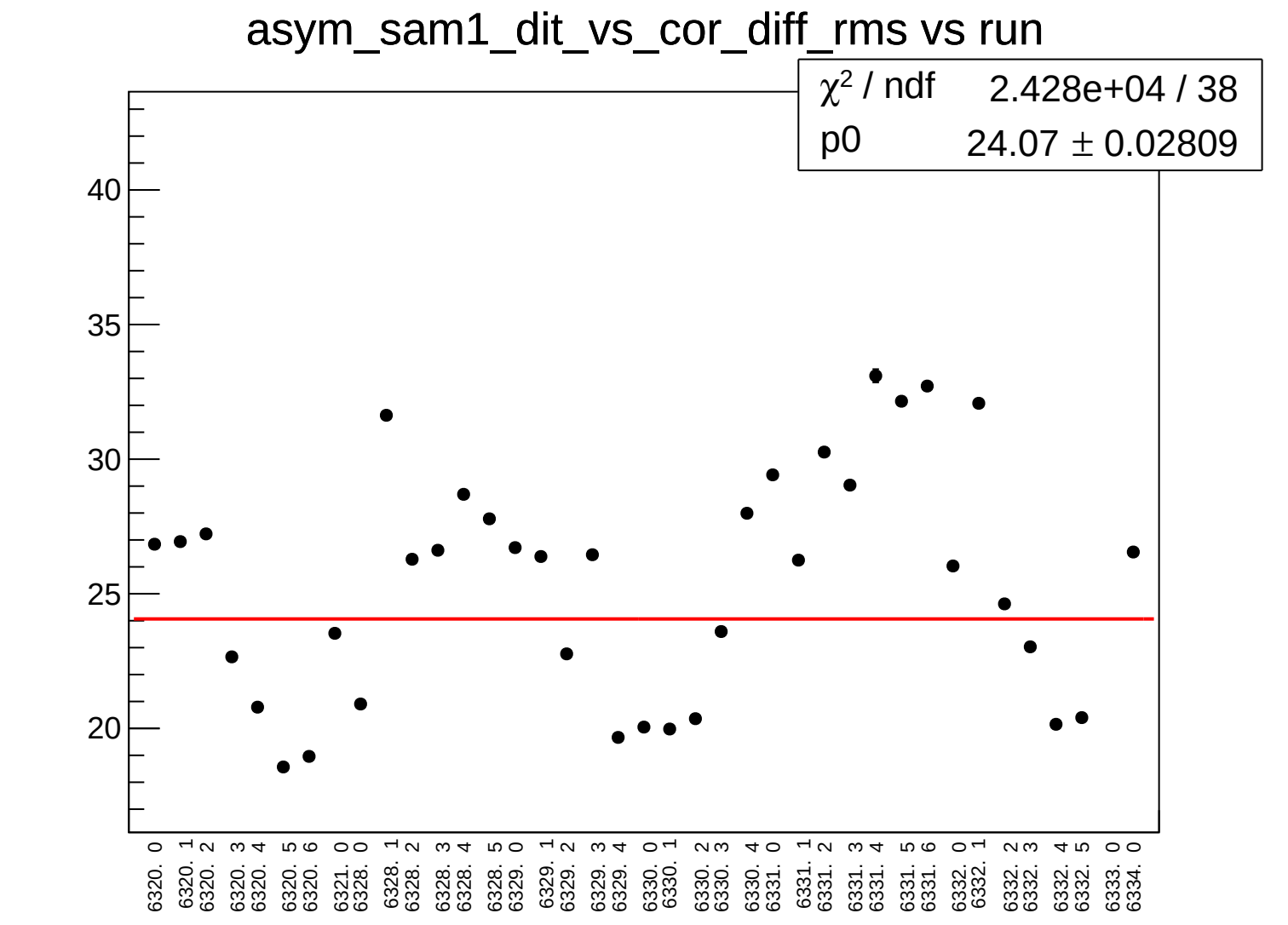

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 34.27 / 38
p0 −3.562e−14 ± 2.775e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 468.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

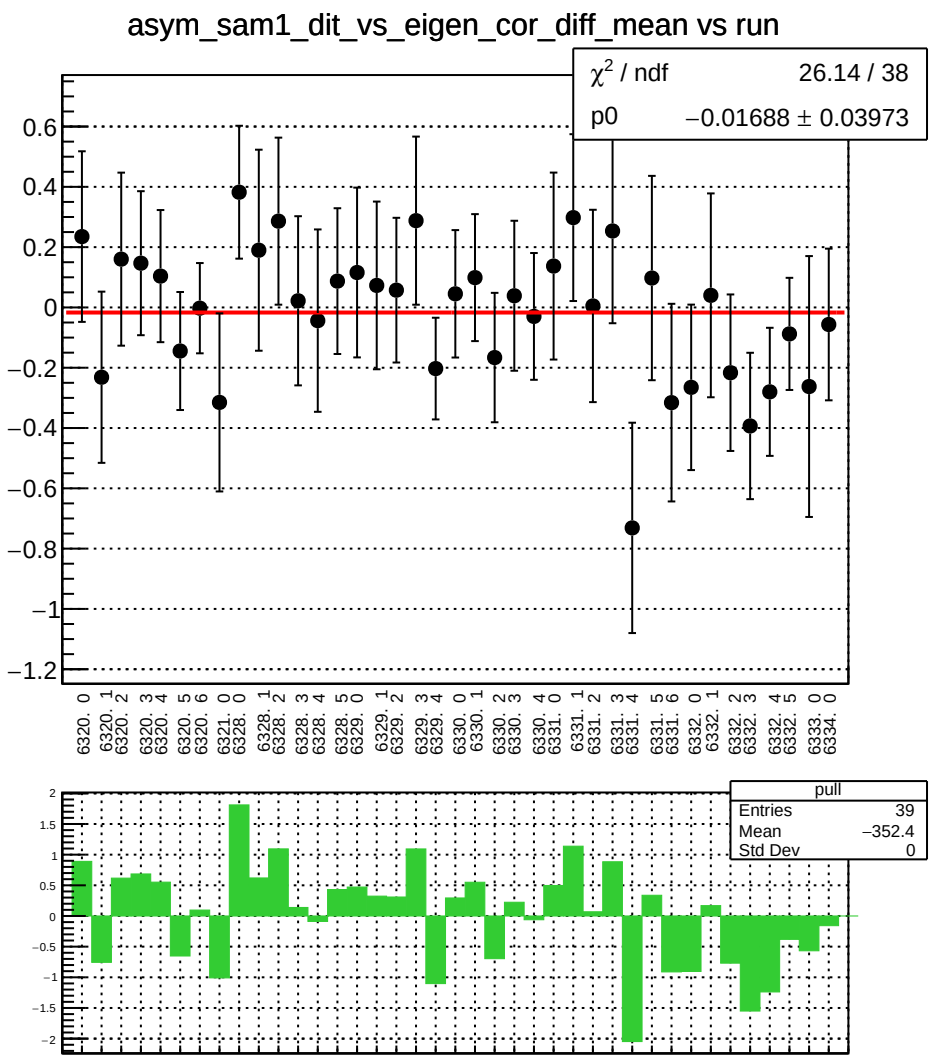

pull1D
Entries 39
Mean 0.006693
Std Dev 0.9373
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

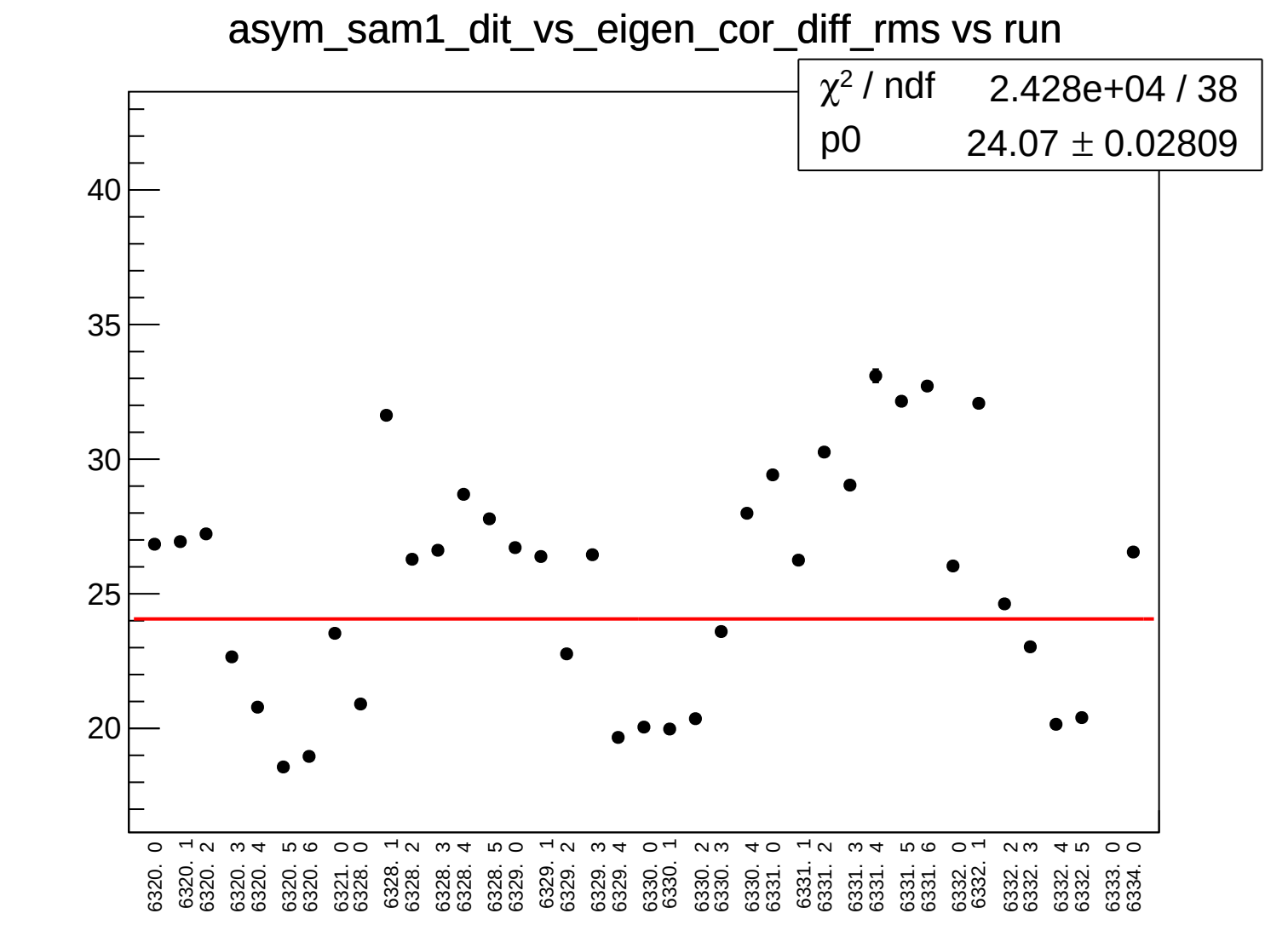

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.971e+05 / 38
p0 1.002e−11 ± 1.962e−14
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

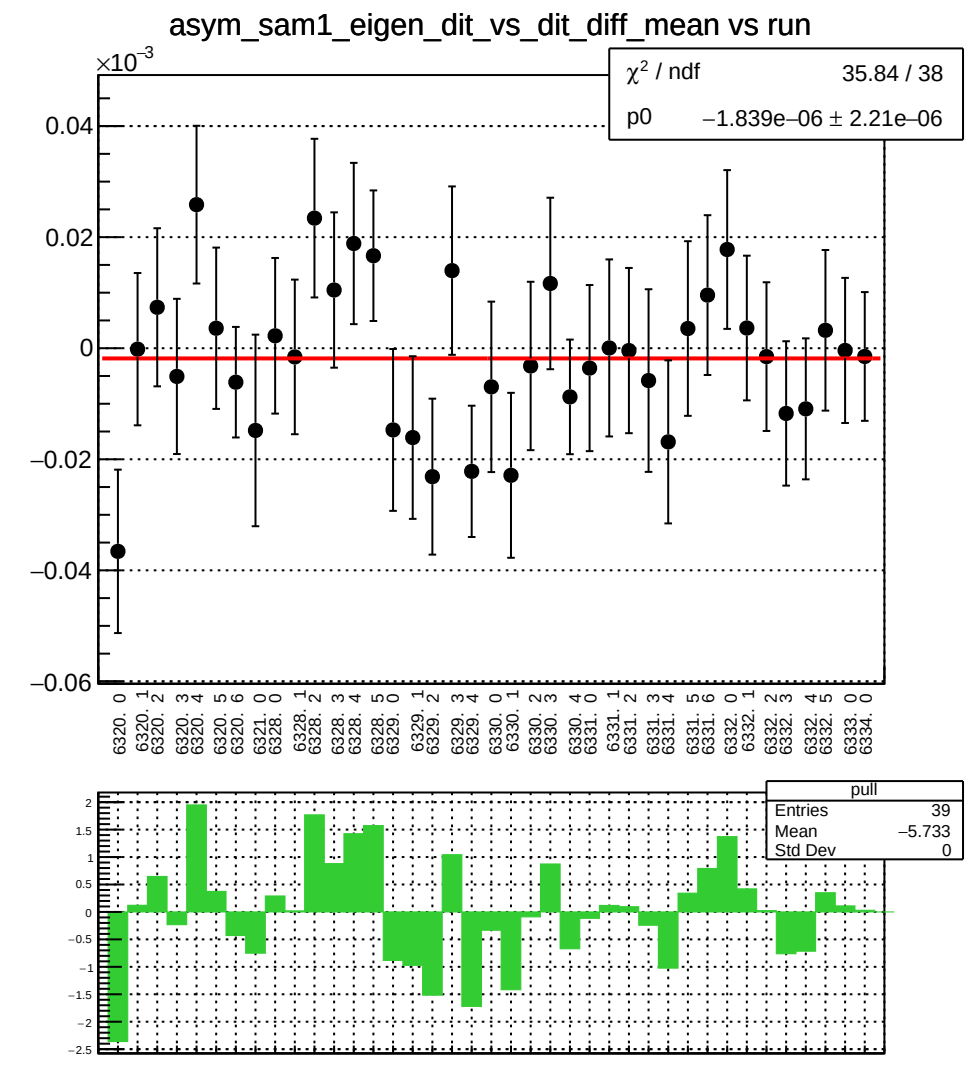

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 26.14 / 38
p0 −0.01688 ± 0.03973
pull
Entries 39
Mean −352.4
Std Dev 0

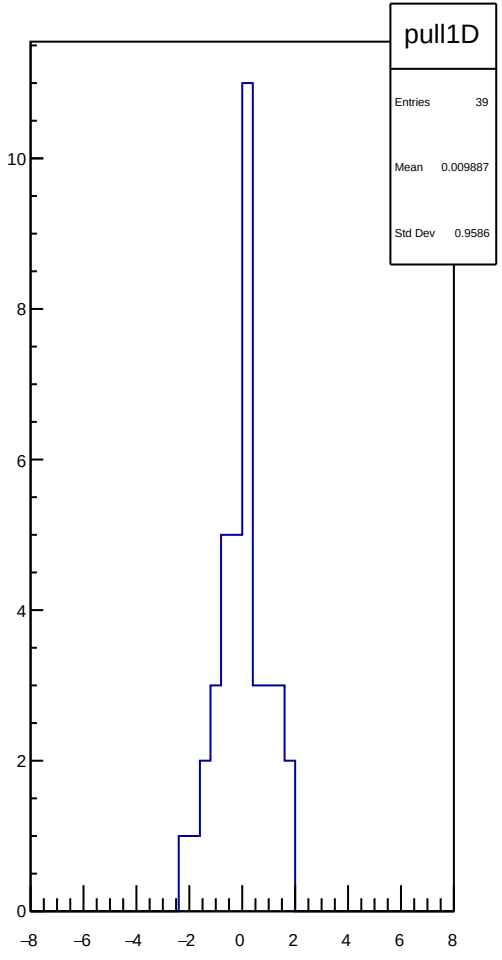

pull1D
Entries 39
Mean 0.01024
Std Dev 0.8186

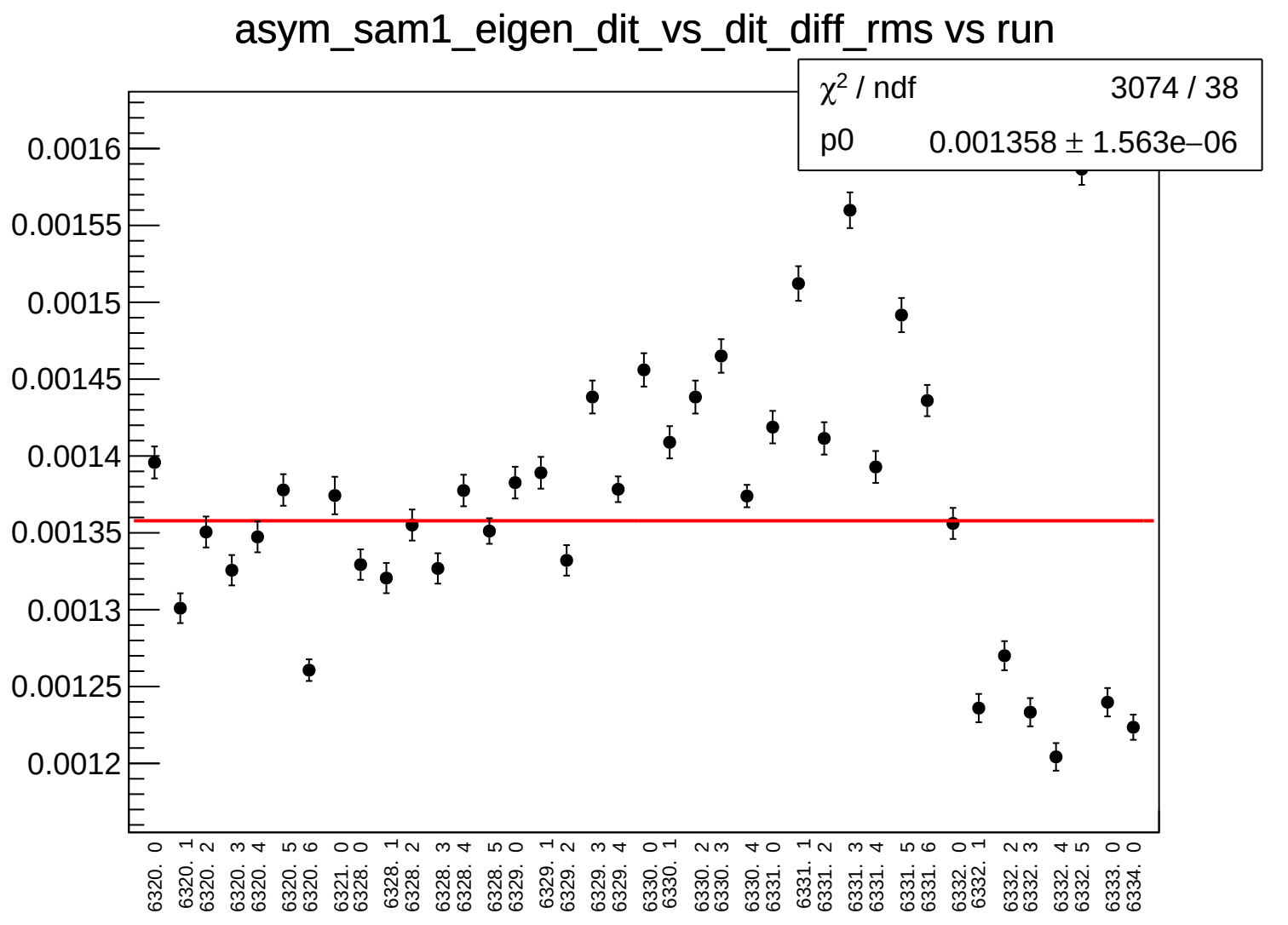

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 24.07 ± 0.02809
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

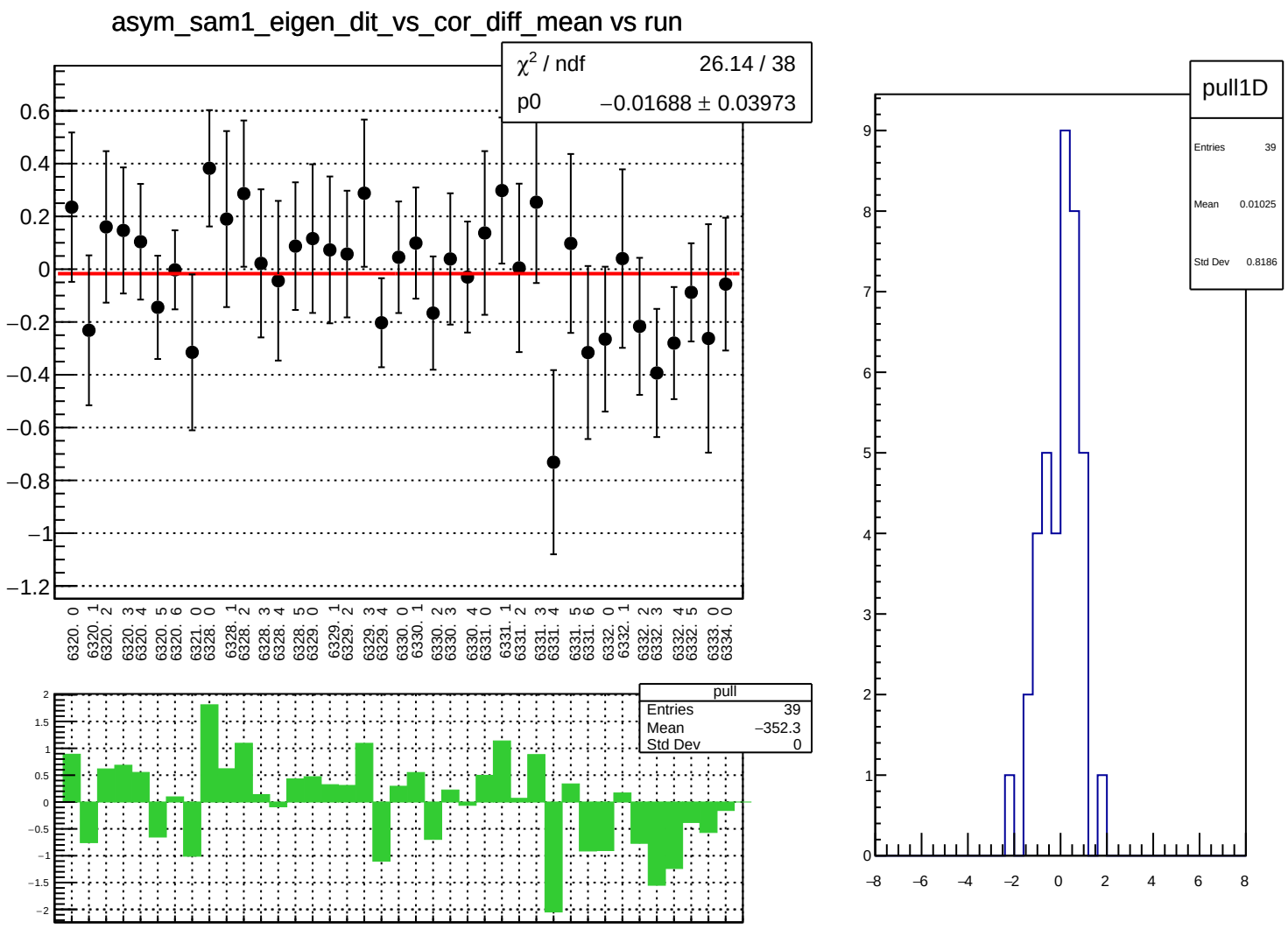

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.14 / 38
p0 −0.01688 ± 0.03973
pull
Entries 39
Mean −352.4
Std Dev 0
pull1D
Entries 39
Mean 0.01024
Std Dev 0.8186

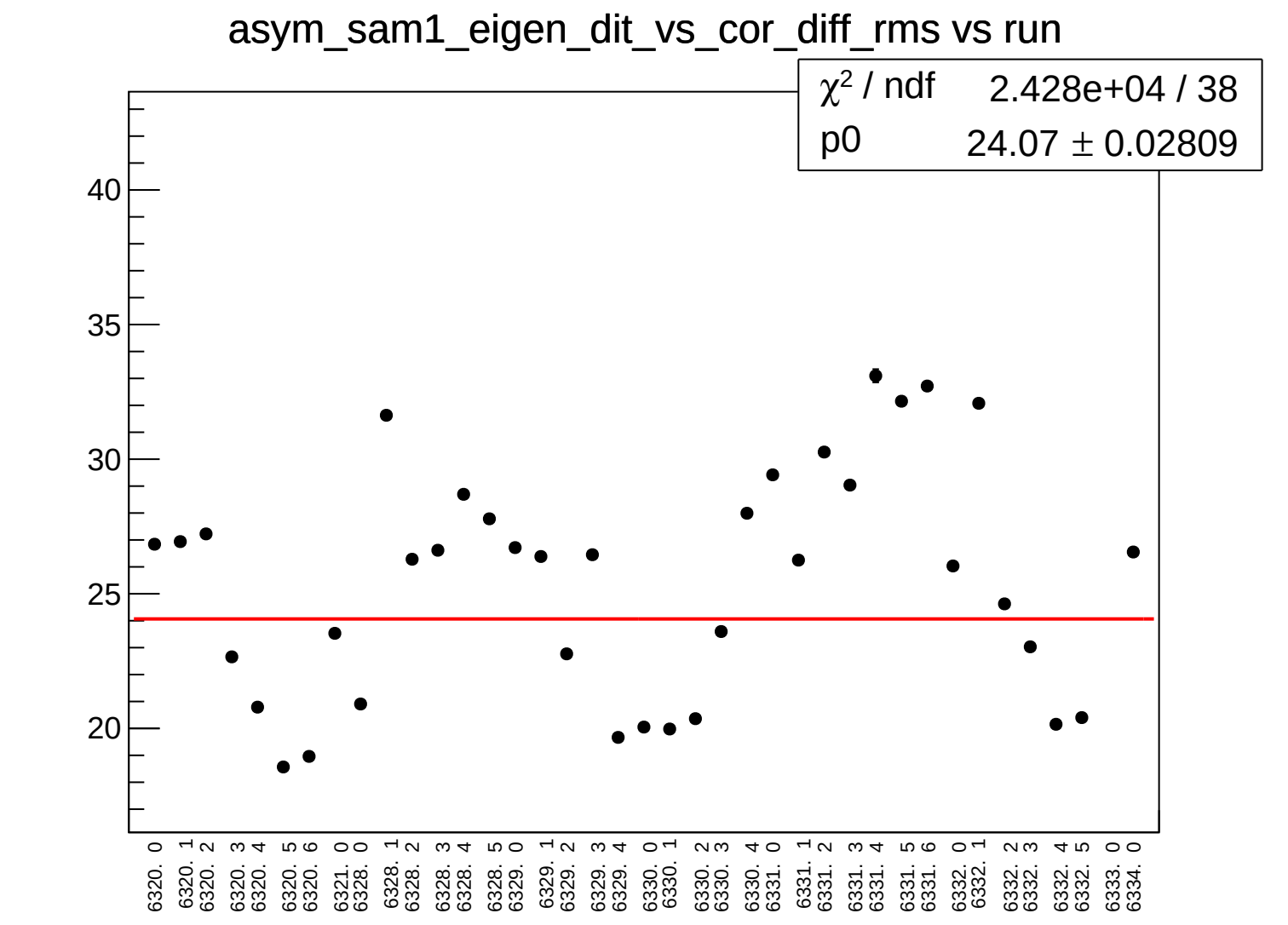

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 24.07 ± 0.02809
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

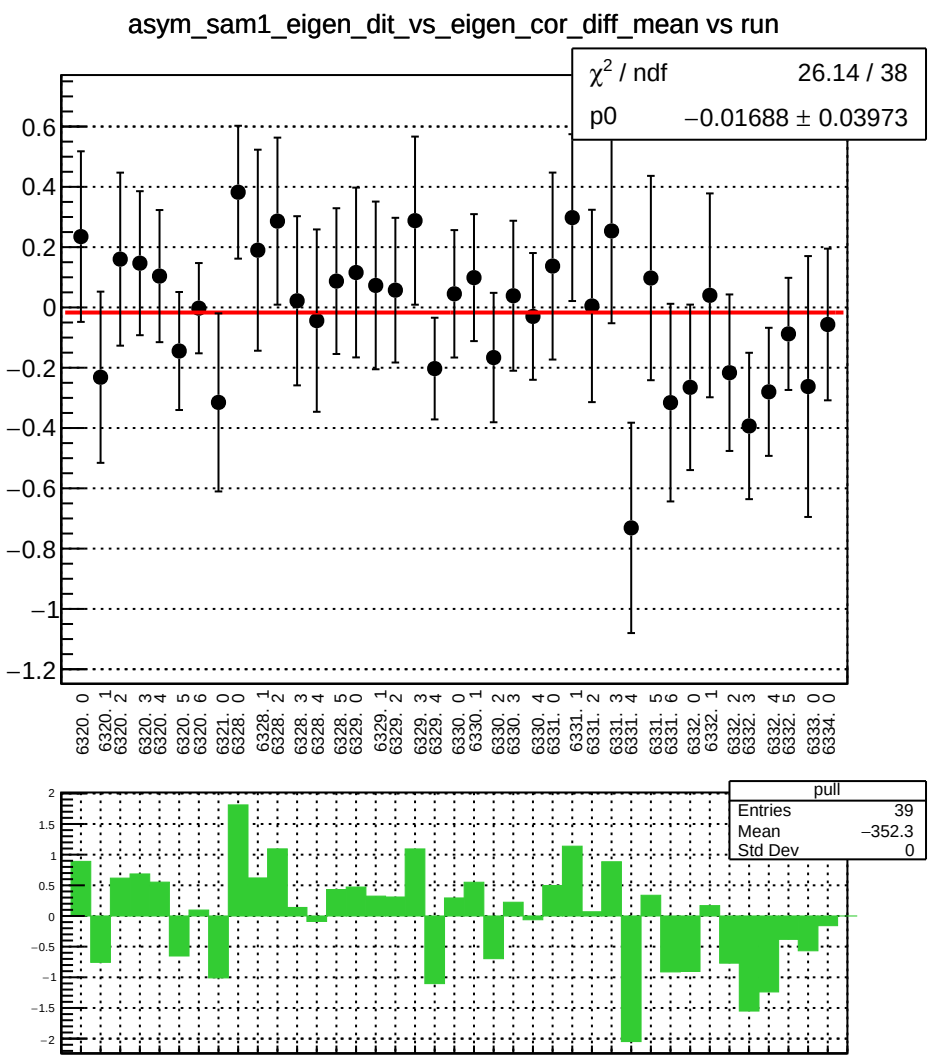

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.84 / 38
p0 −1.839e−06 ± 2.21e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −5.733
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

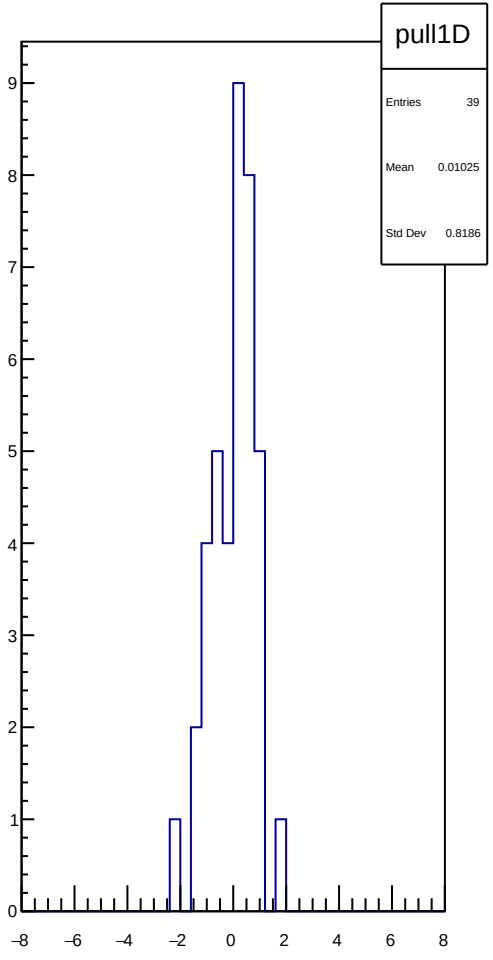

pull1D
Entries 39
Mean 0.009887
Std Dev 0.9586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

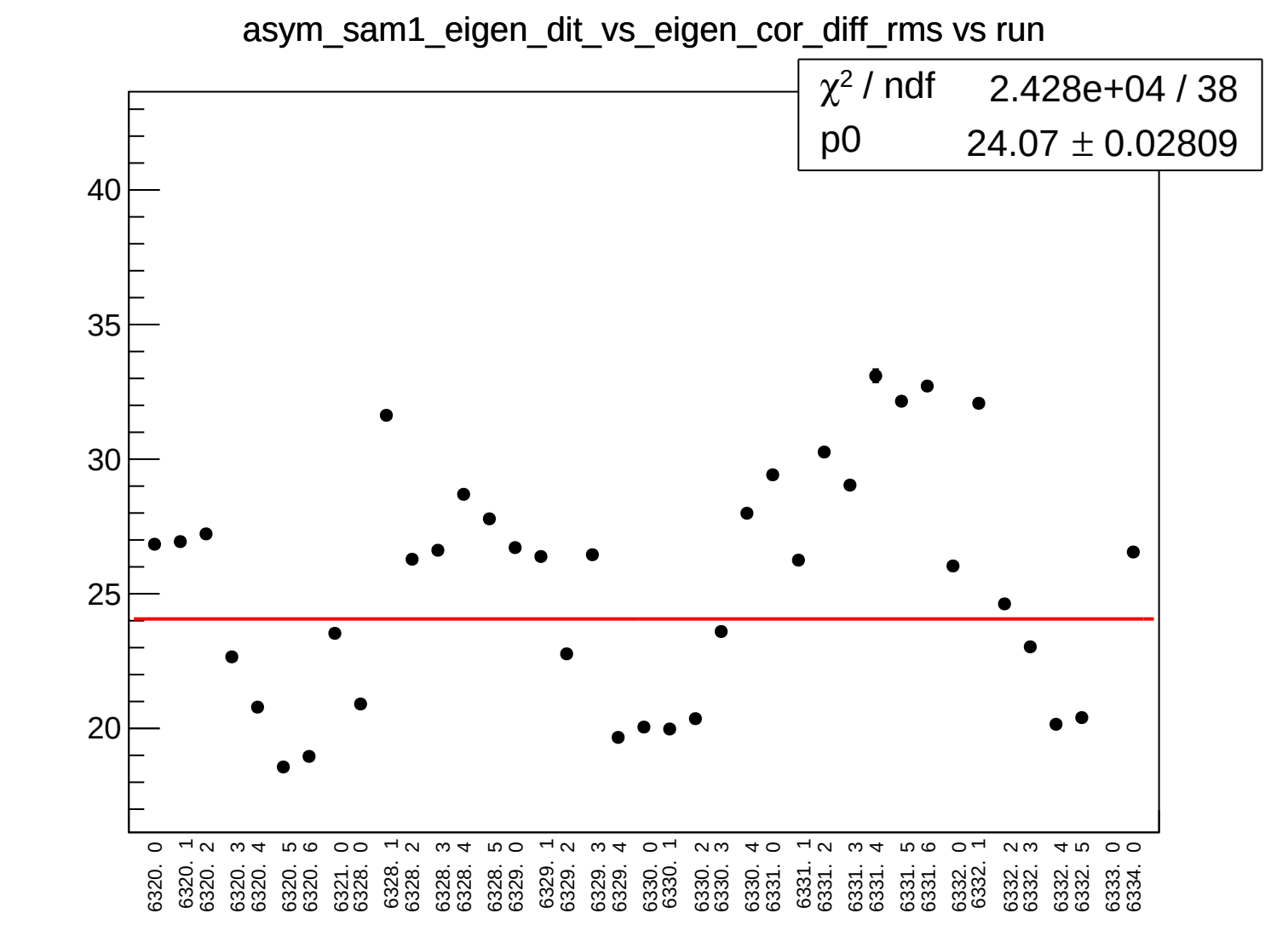

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3074 / 38
p0 0.001358 ± 1.563e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

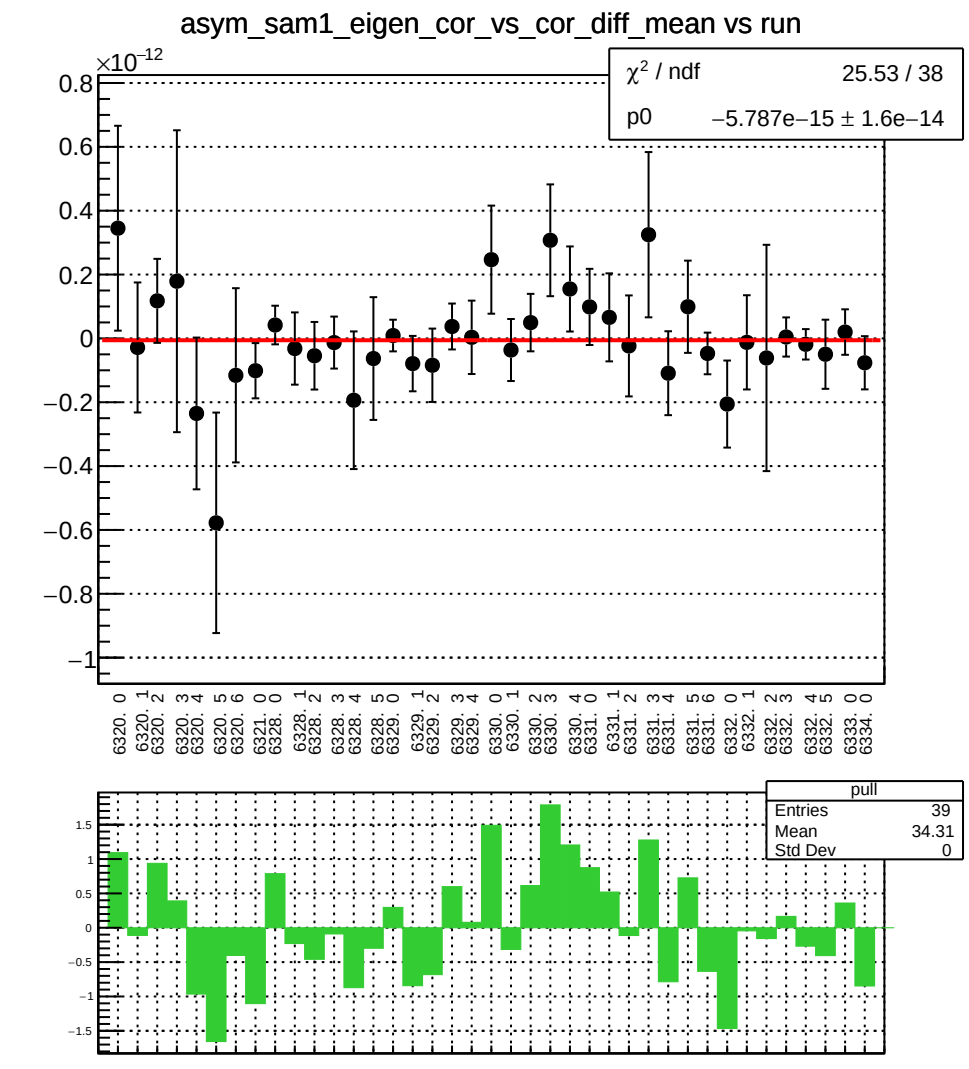

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.14 / 38
p0 −0.01688 ± 0.03973
pull
Entries 39
Mean −352.3
Std Dev 0
pull1D
Entries 39
Mean 0.01025
Std Dev 0.8186

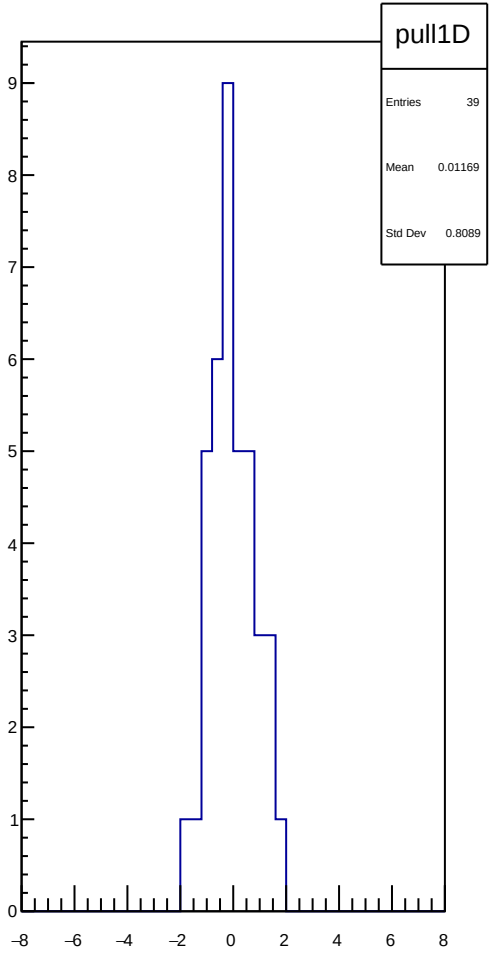

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 24.07 ± 0.02809
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

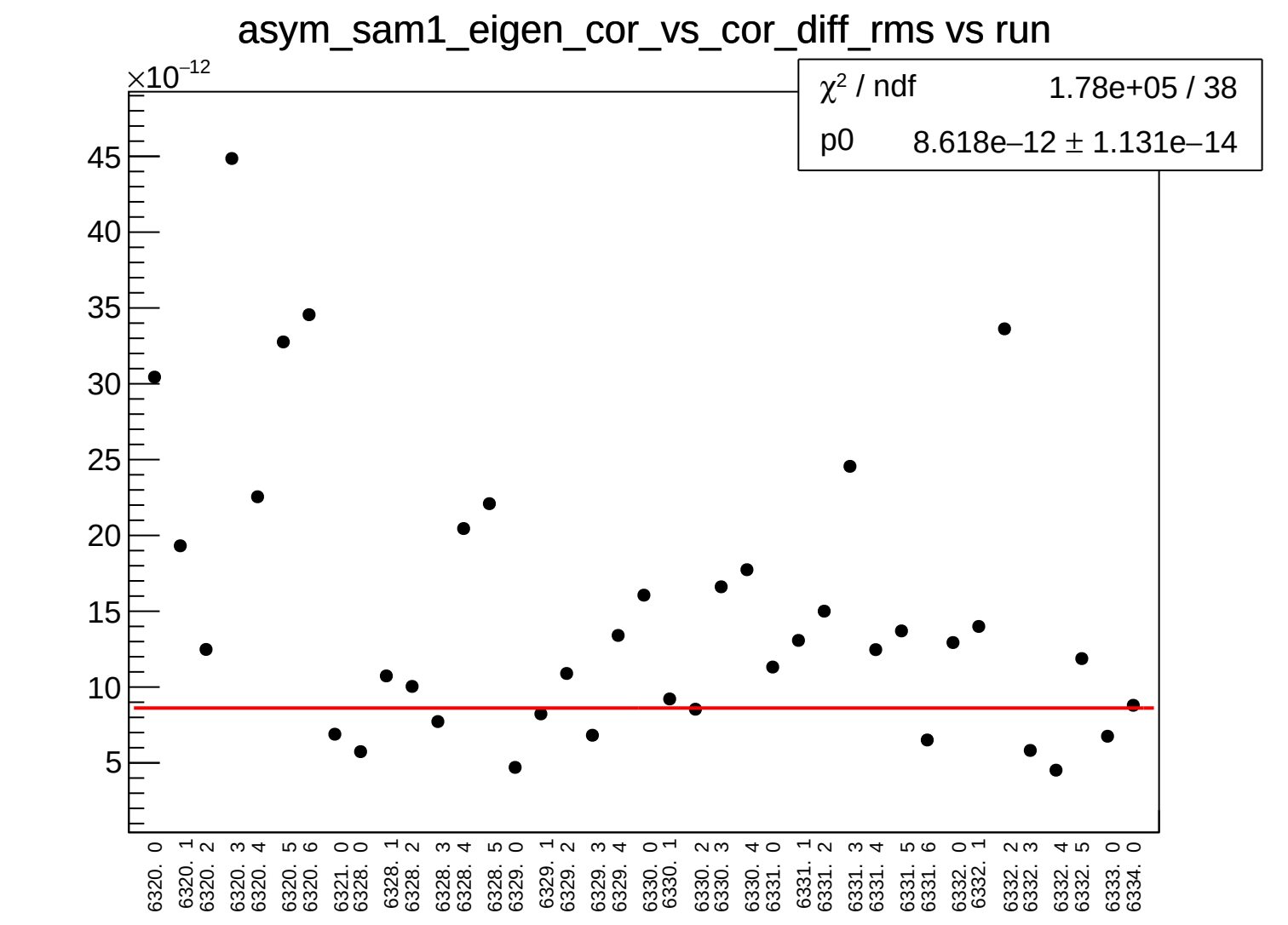

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.14 / 38
p0 −0.01688 ± 0.03973
pull
Entries 39
Mean −352.3
Std Dev 0

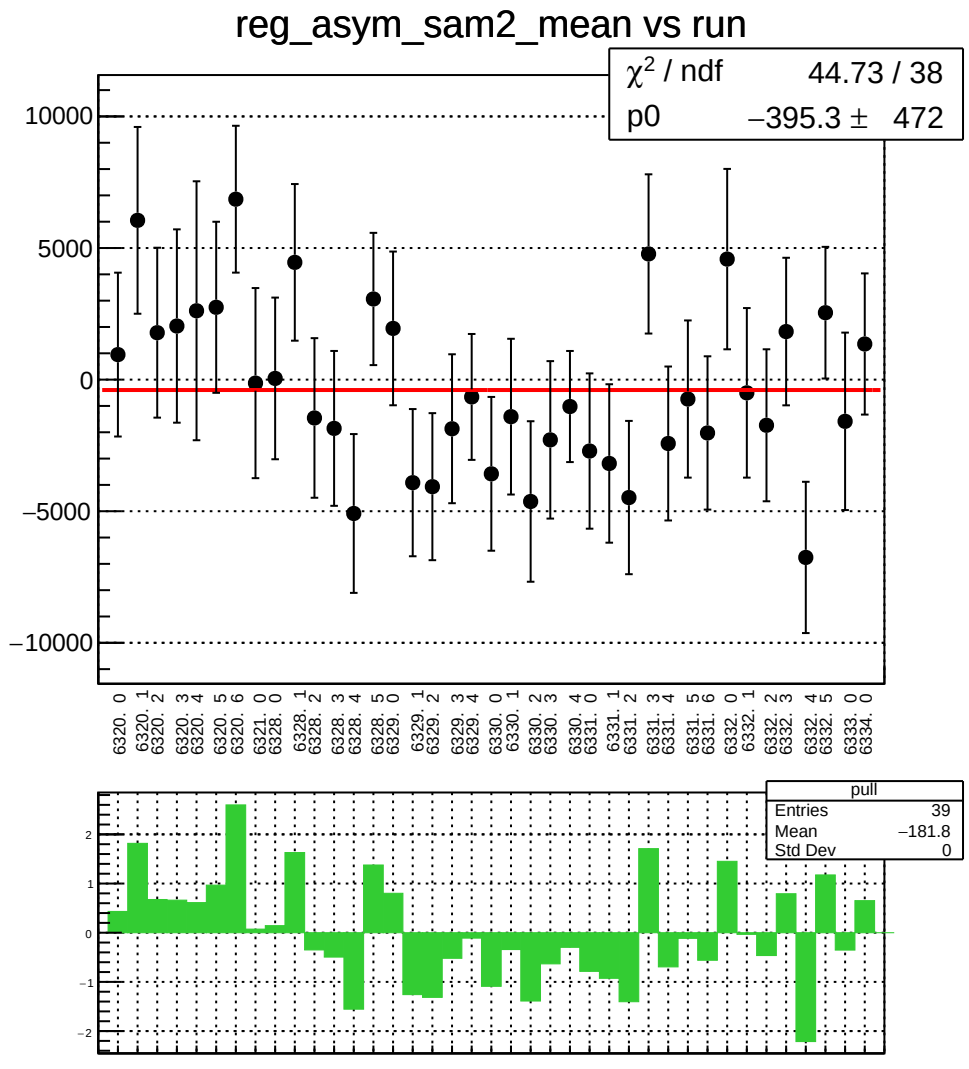

pull1D
Entries 39
Mean 0.01025
Std Dev 0.8186

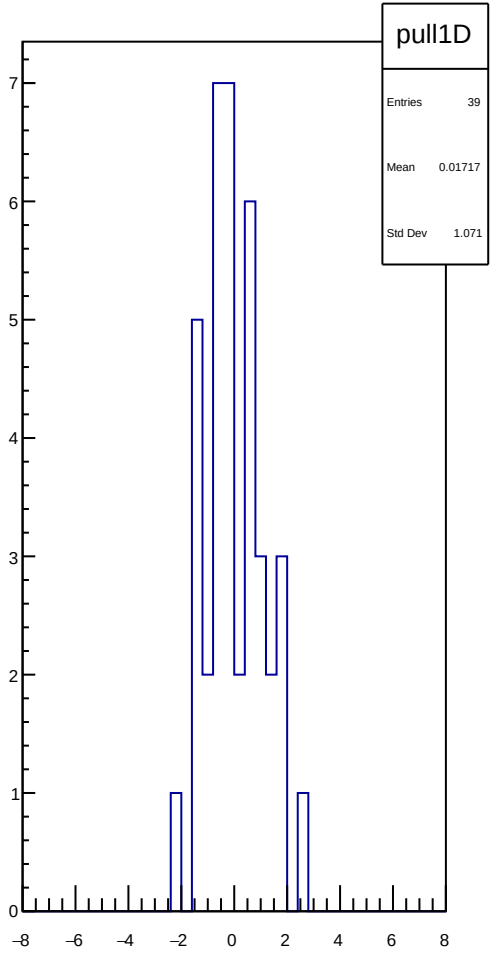

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.428e+04 / 38
p0 24.07 ± 0.02809
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

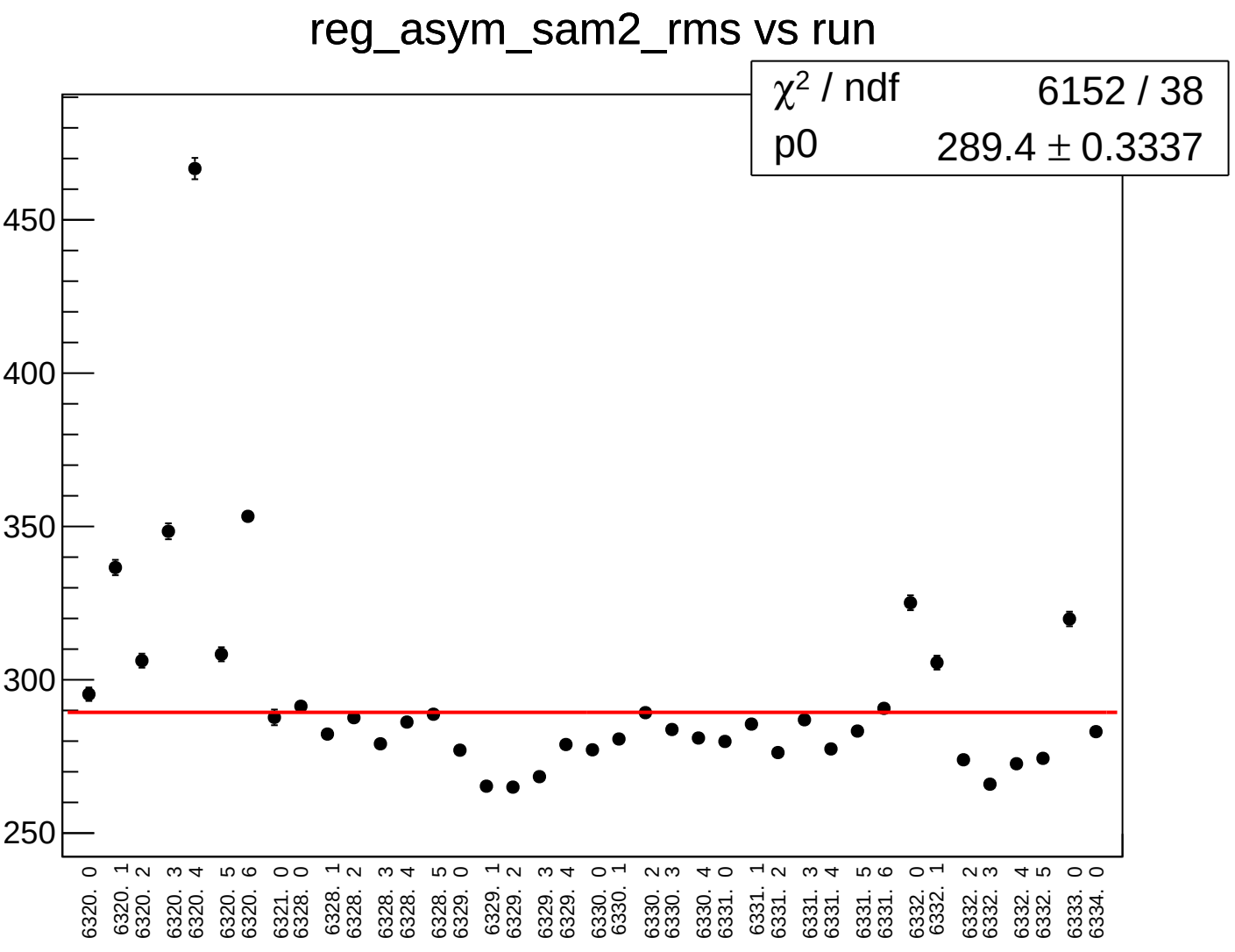

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.53 / 38
p0 −5.787e−15 ± 1.6e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

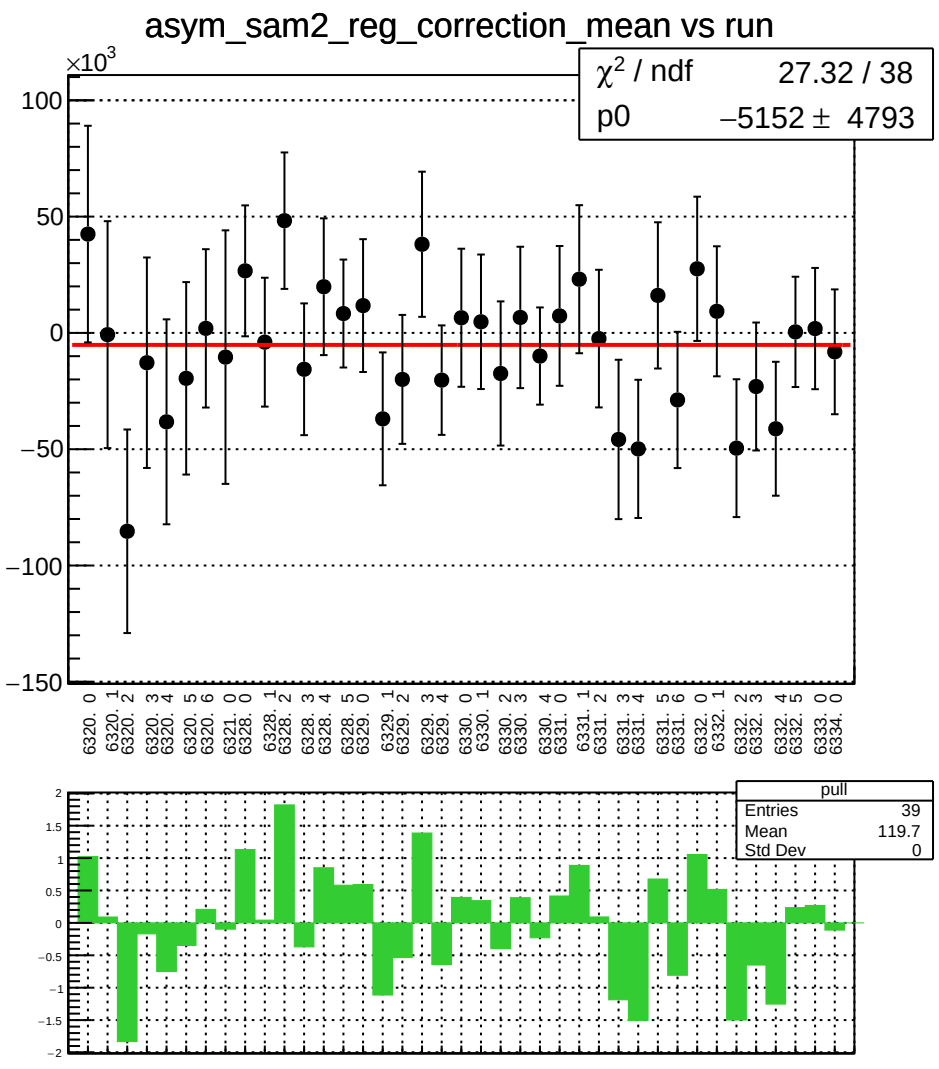

pull1D
Entries 39
Mean 0.01169
Std Dev 0.8089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

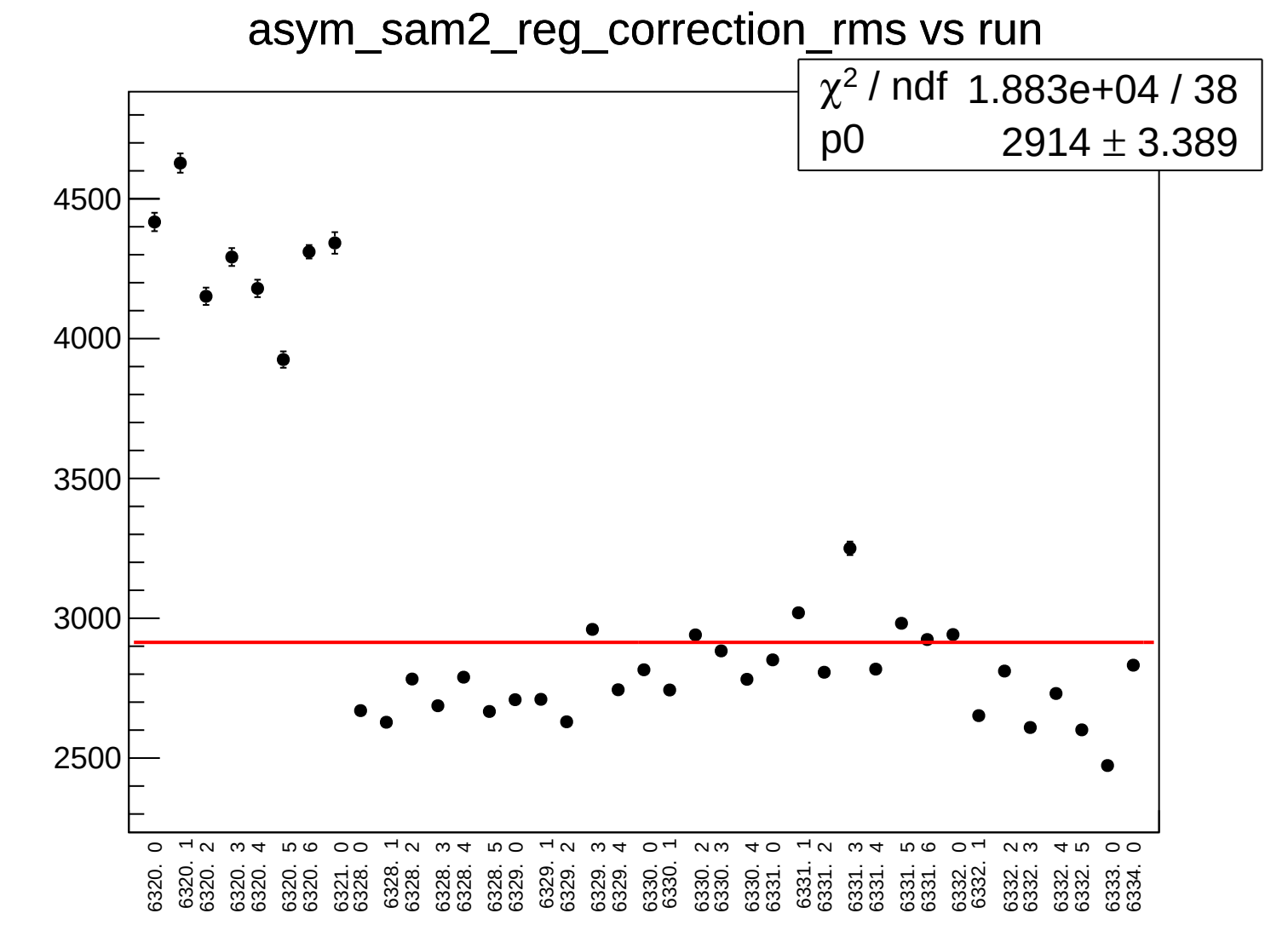

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.78e+05 / 38
p0 8.618e−12 ± 1.131e−14
45
40
35
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

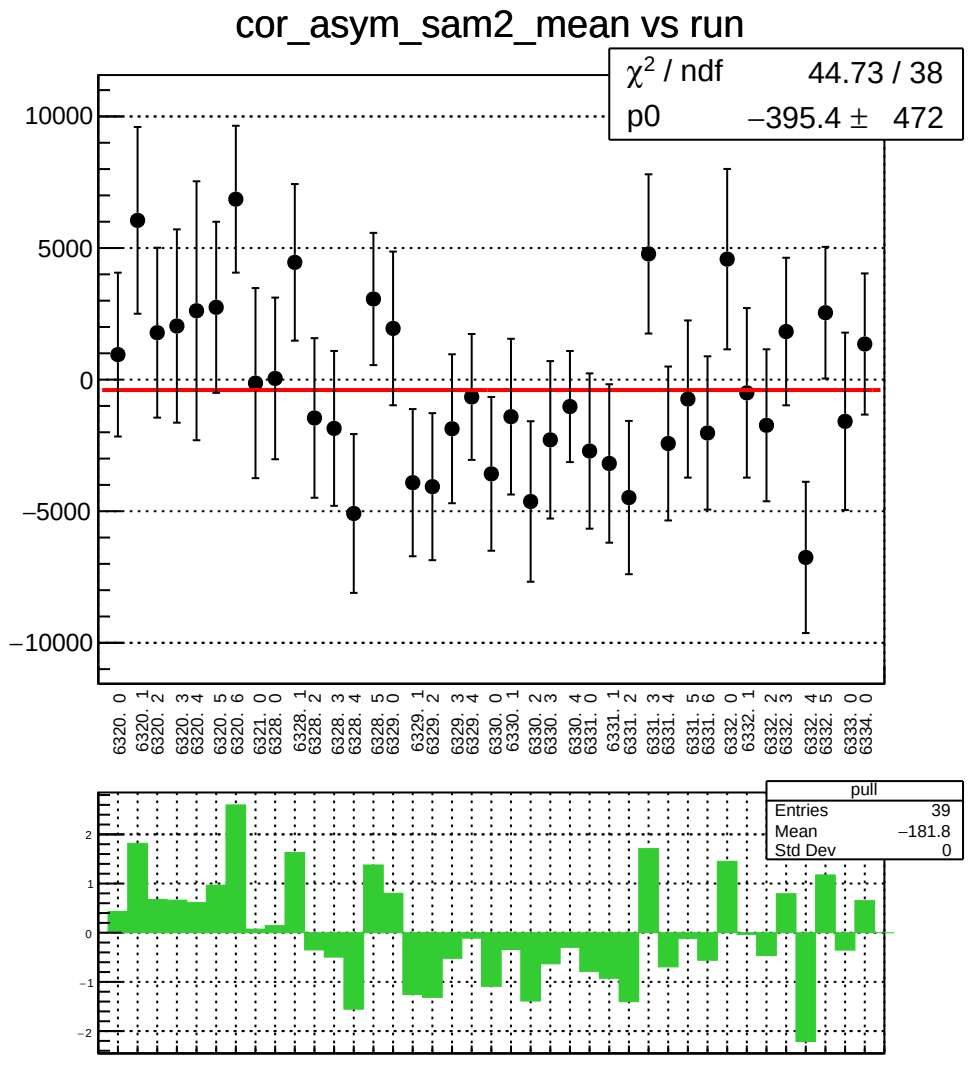

reg_asym_sam2_mean vs run
χ² / ndf 44.73 / 38
p0 −395.3 ± 472
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −181.8
Std Dev 0
2
1
0
−1
−2

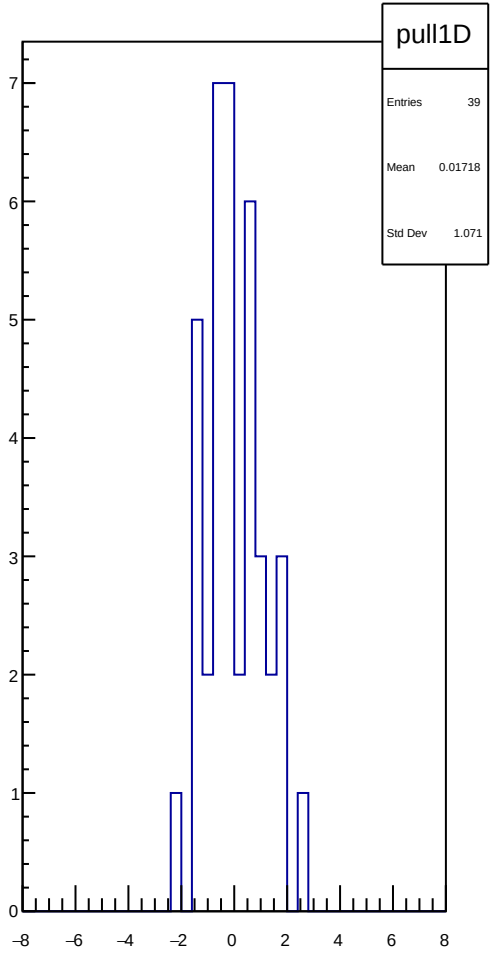

pull1D
Entries 39
Mean 0.01717
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

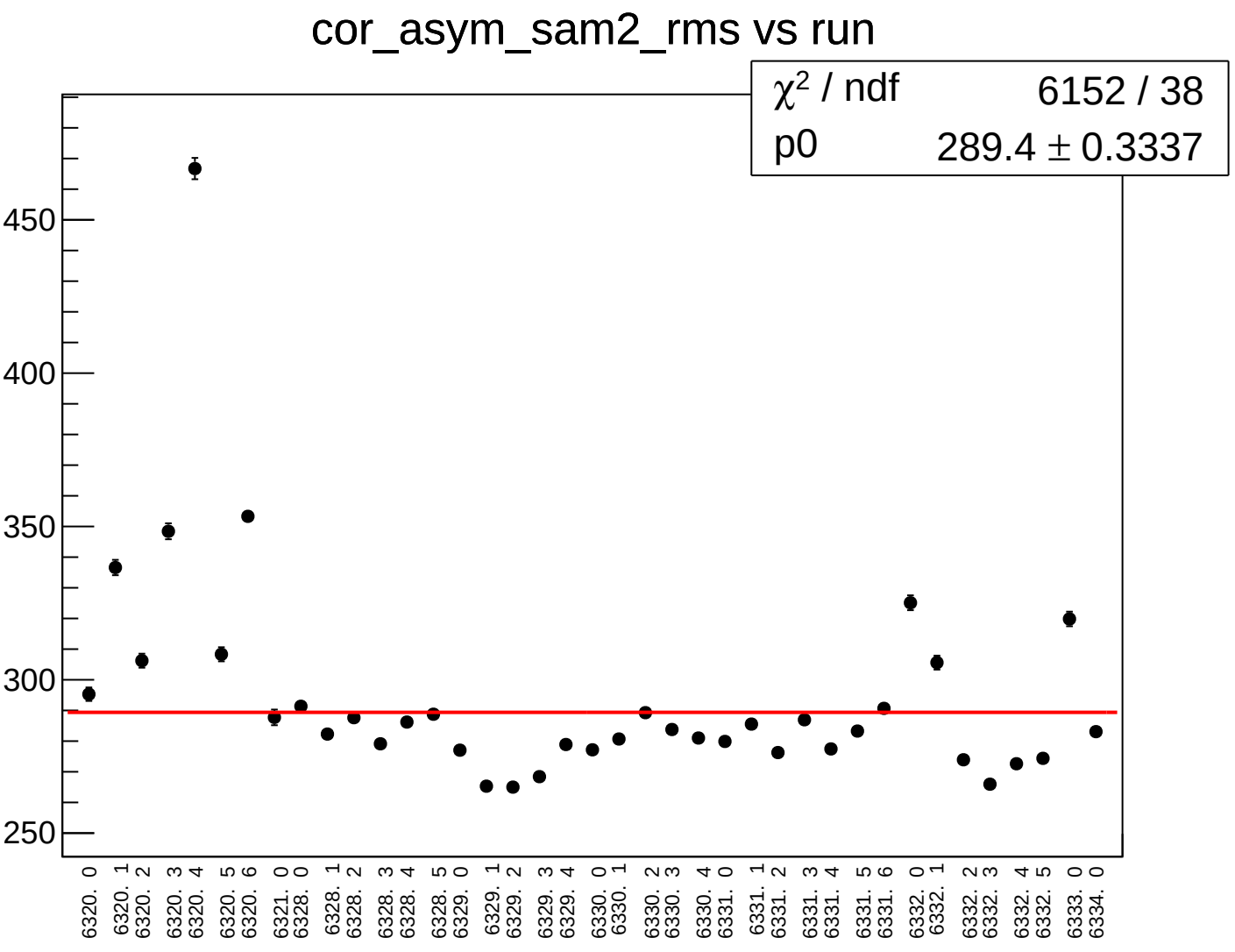

reg_asym_sam2_rms vs run
χ² / ndf 6152 / 38
p0 289.4 ± 0.3337
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

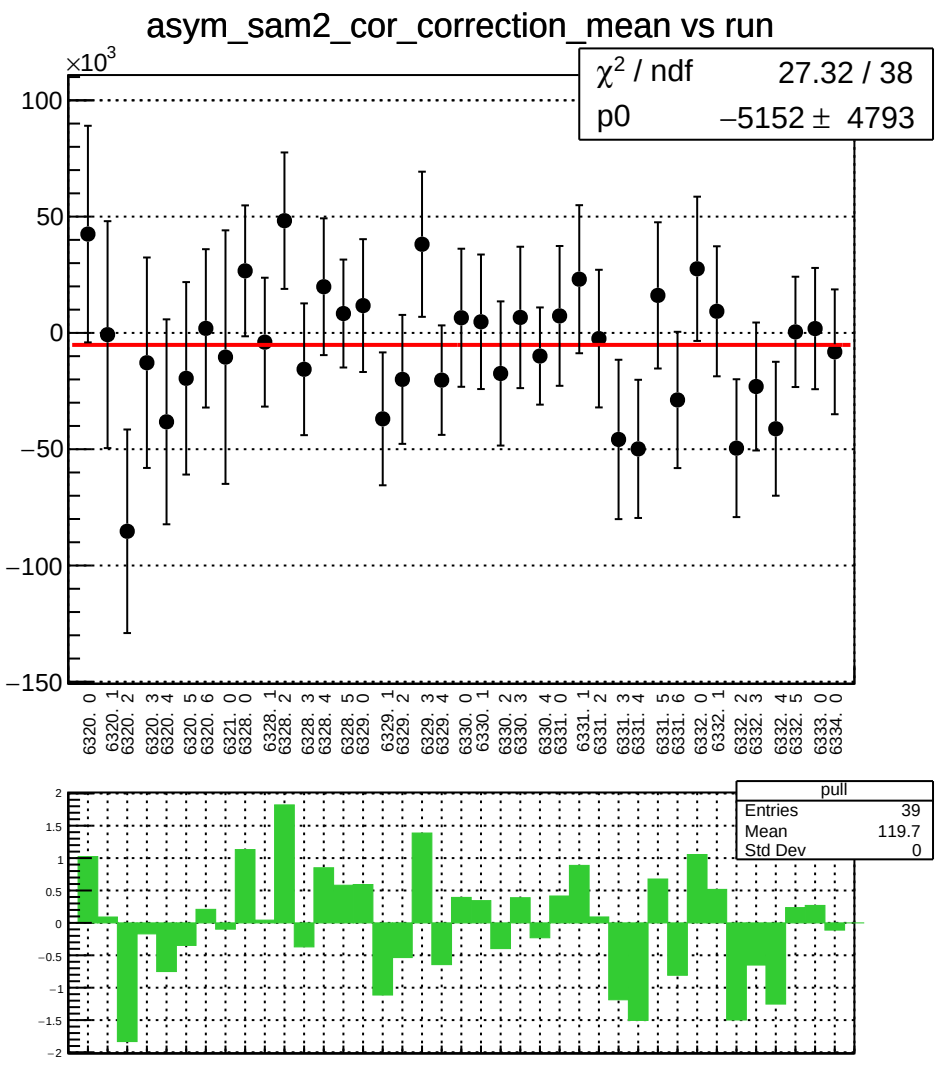

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 27.32 / 38
p0 −5152 ± 4793
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01264
Std Dev 0.8369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

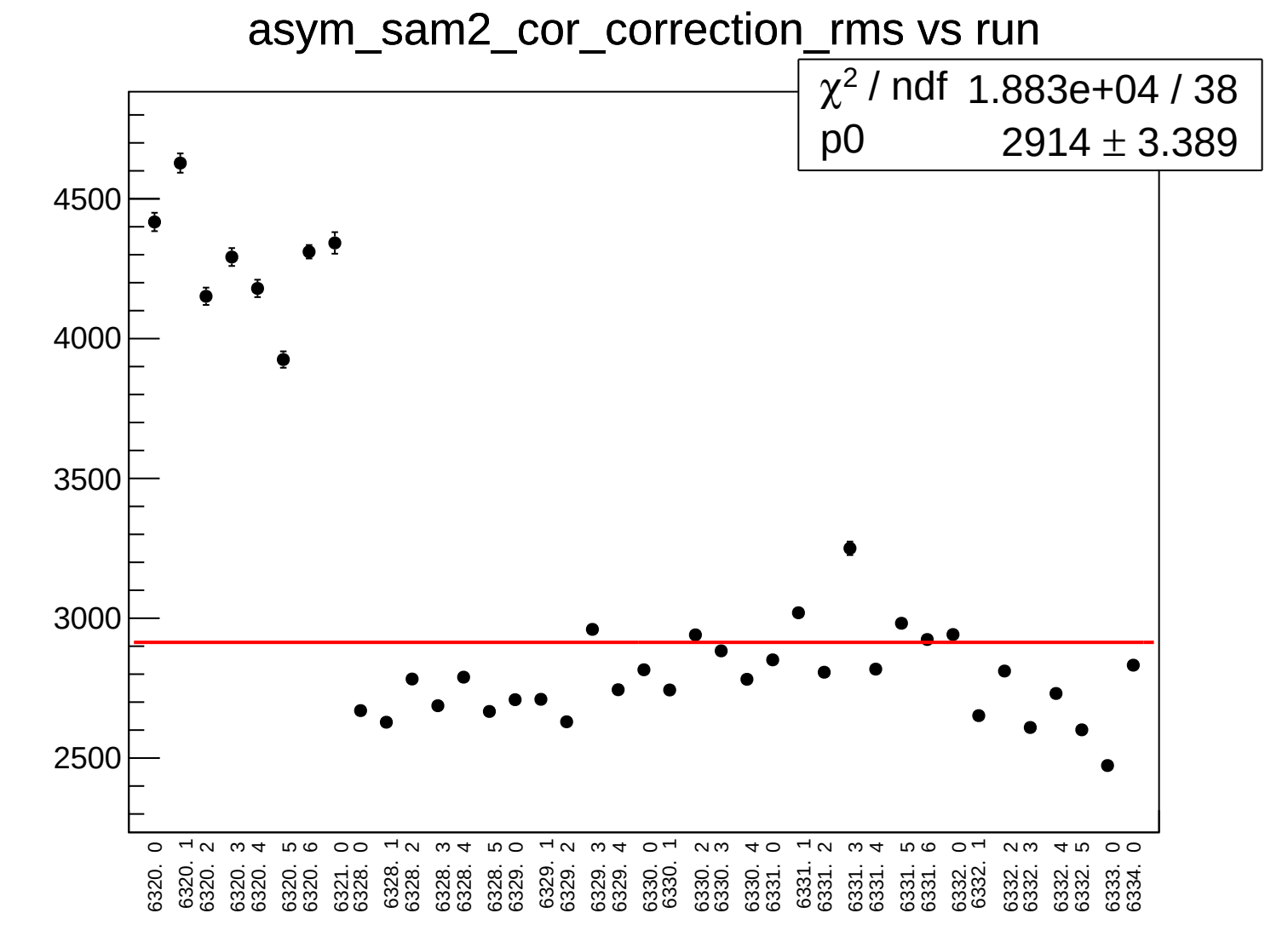

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.883e+04 / 38
p0 2914 ± 3.389
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

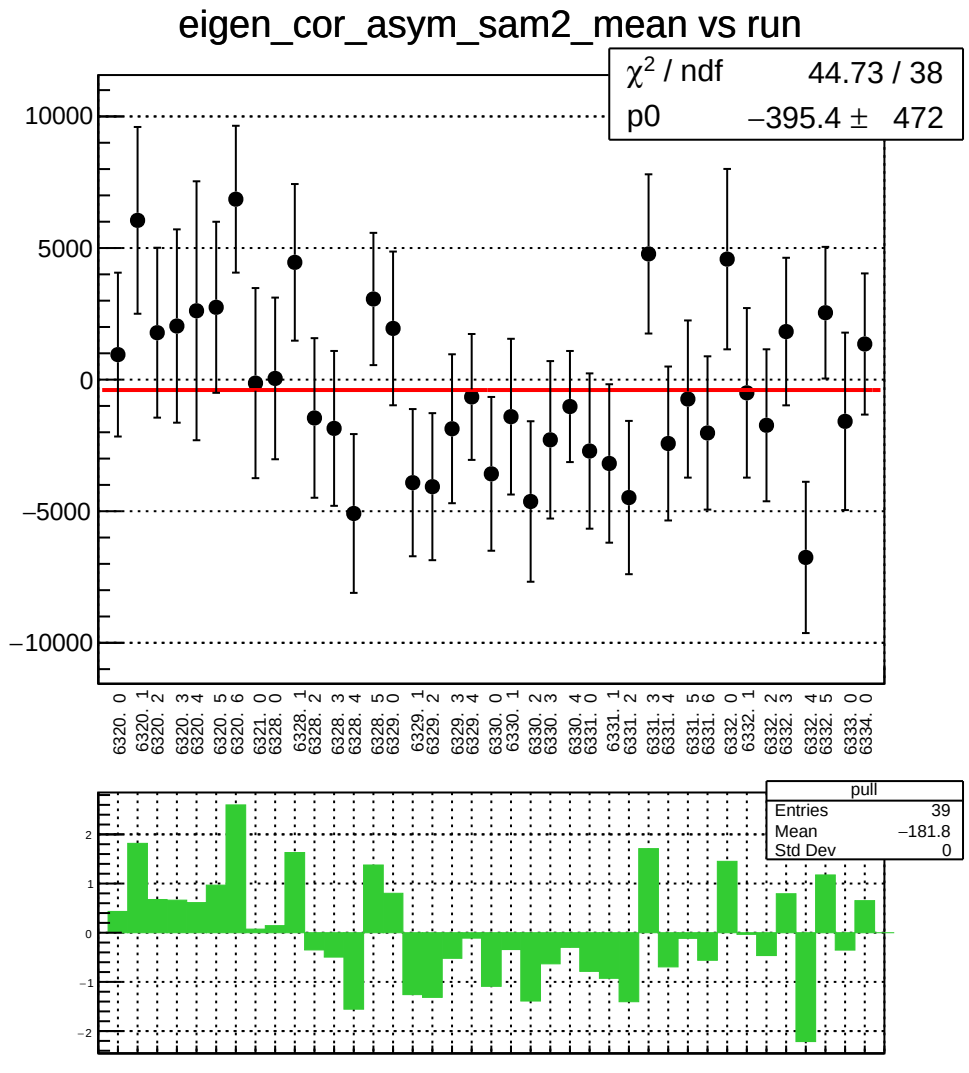

cor_asym_sam2_mean vs run
χ² / ndf 44.73 / 38
p0 −395.4 ± 472
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −181.8
Std Dev 0
2
1
0
−1
−2

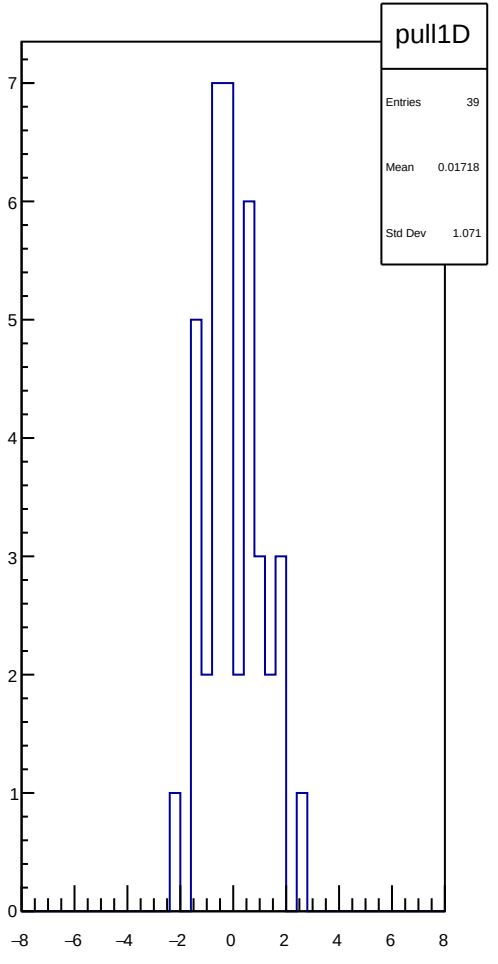

pull1D
Entries 39
Mean 0.01718
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

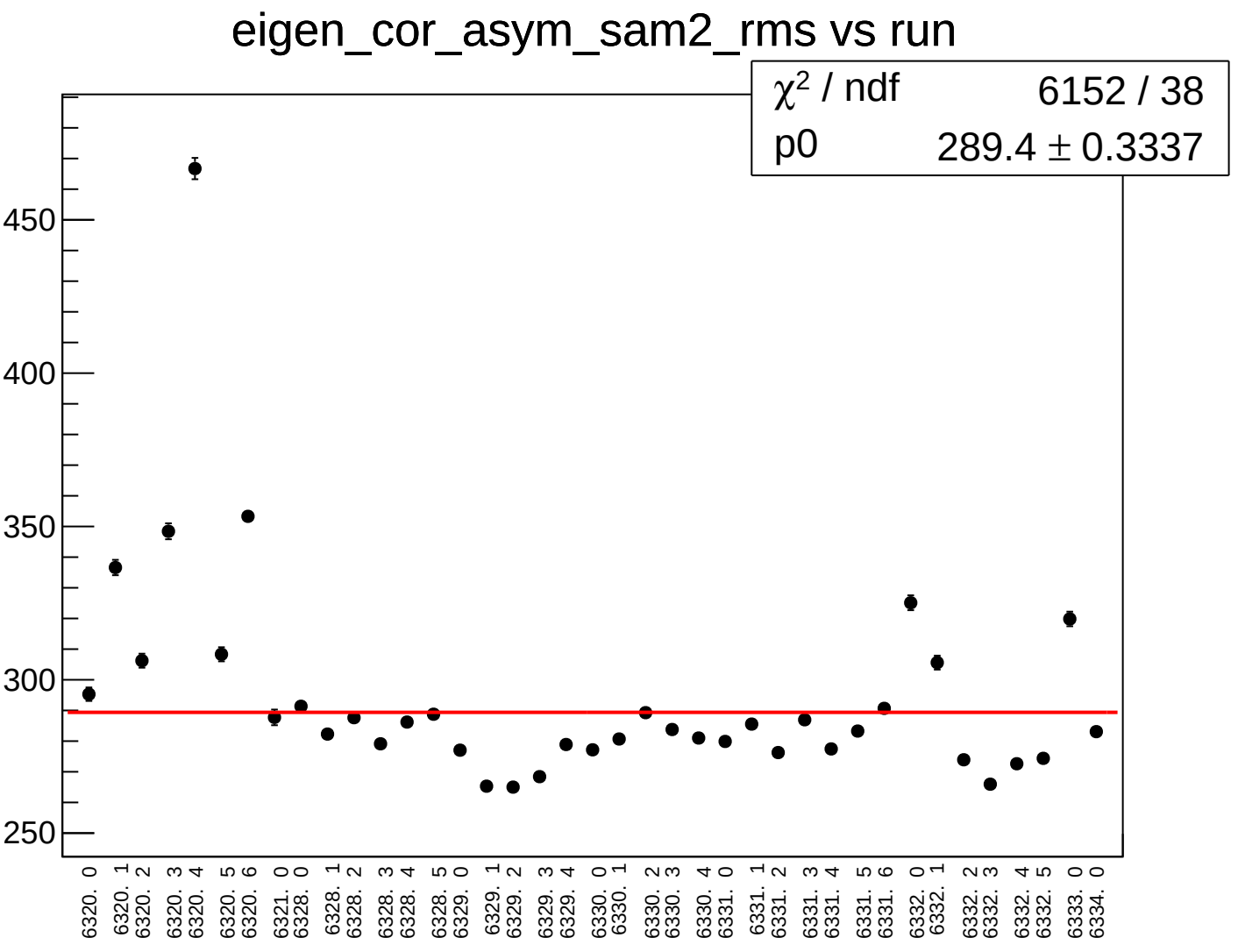

cor_asym_sam2_rms vs run
χ² / ndf 6152 / 38
p0 289.4 ± 0.3337
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

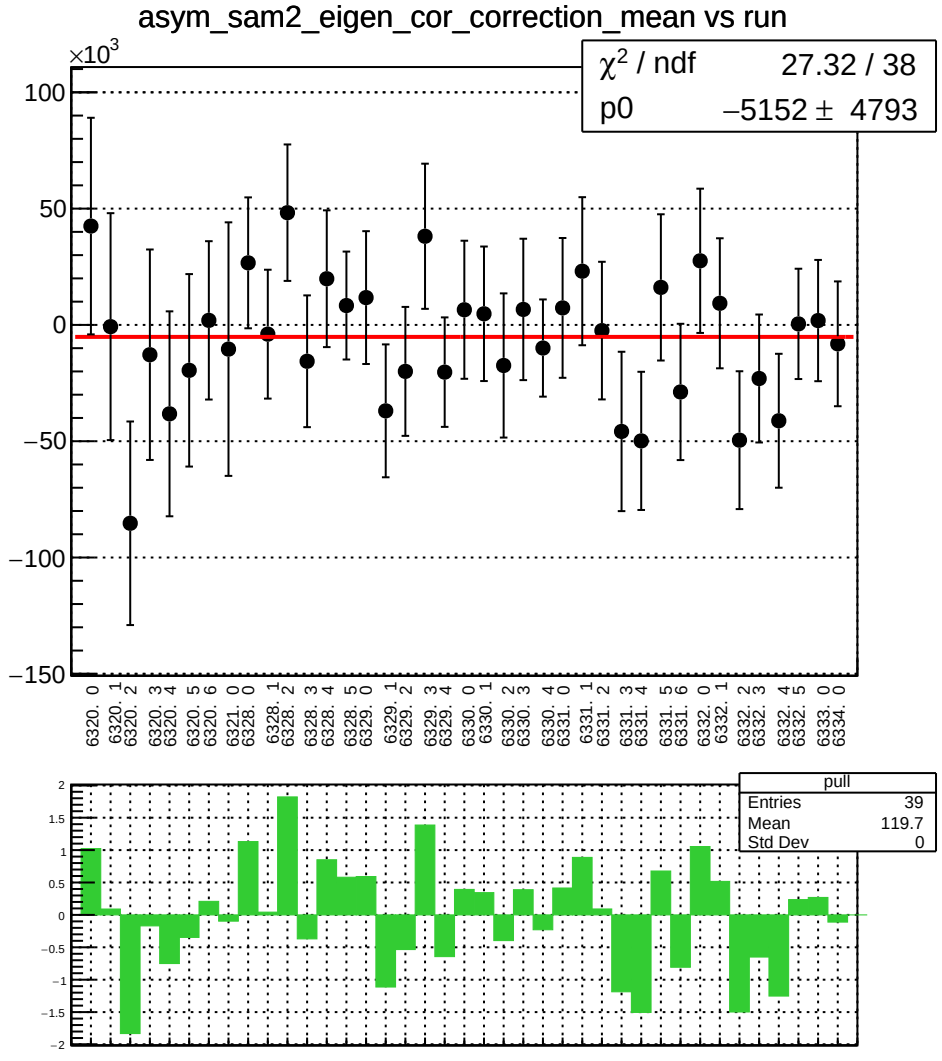

asym_sam2_cor_correction_mean vs run
χ² / ndf 27.32 / 38
p0 −5152 ± 4793
×10³
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01264
Std Dev 0.8369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

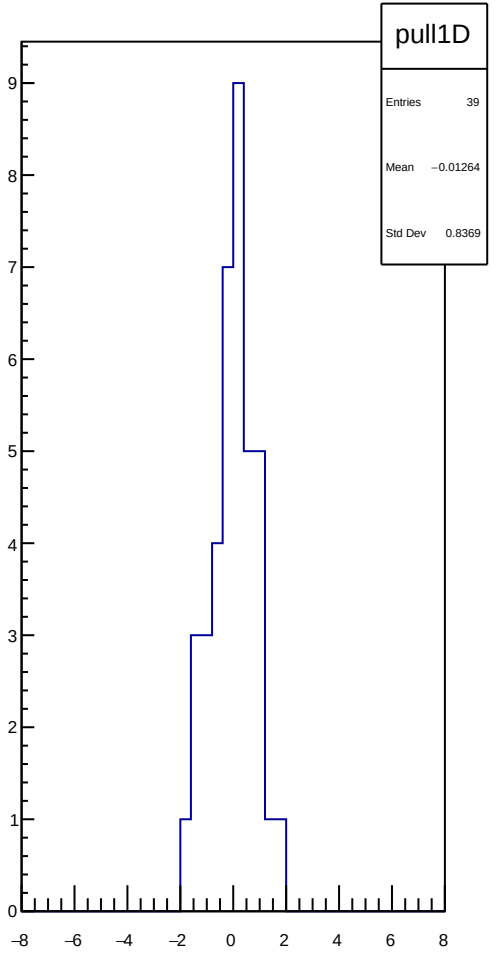

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.883e+04 / 38
p0 2914 ± 3.389
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

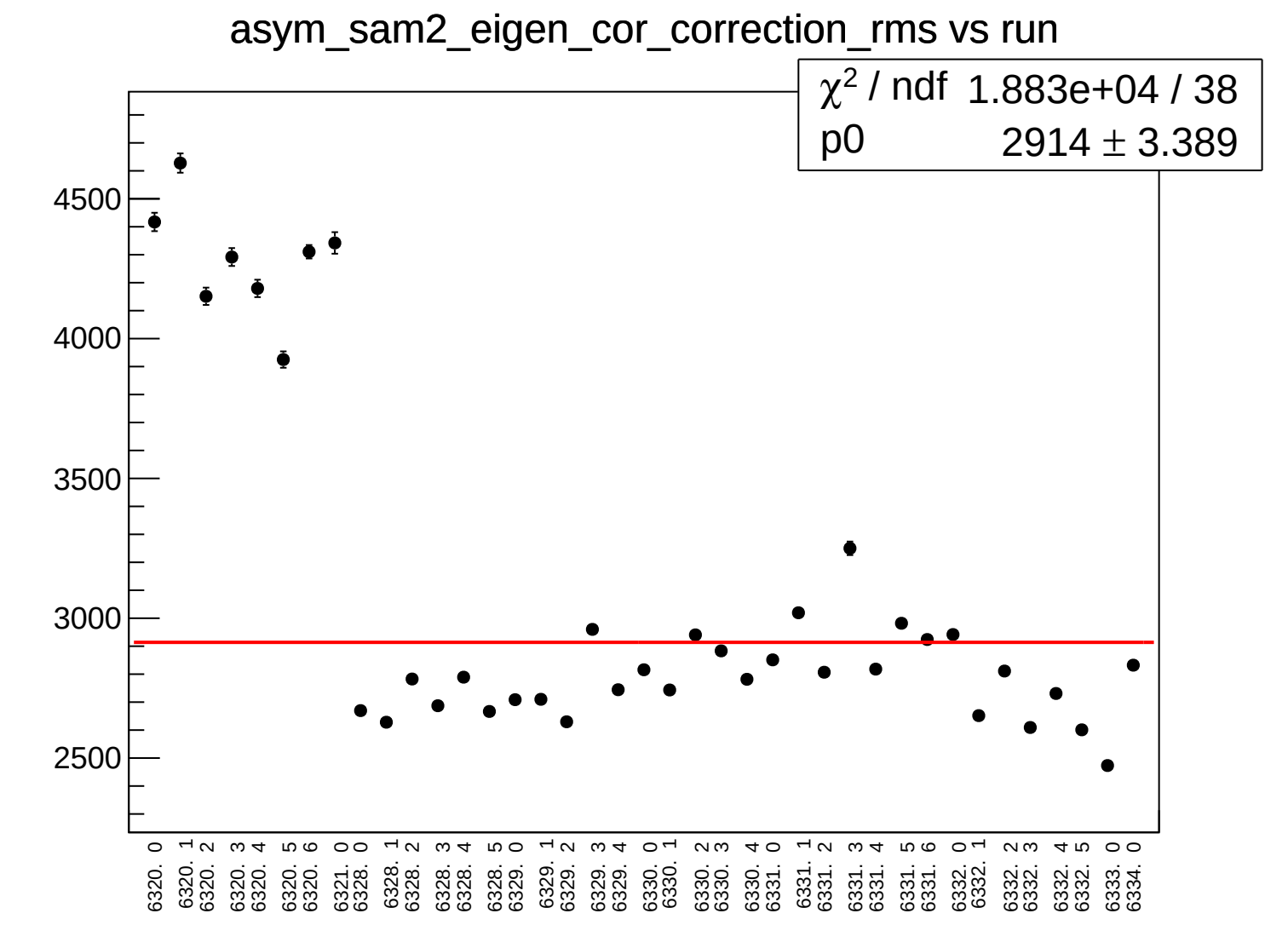

eigen_cor_asym_sam2_mean vs run
χ² / ndf 44.73 / 38
p0 −395.4 ± 472
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −181.8
Std Dev 0
2
1
0
−1
−2

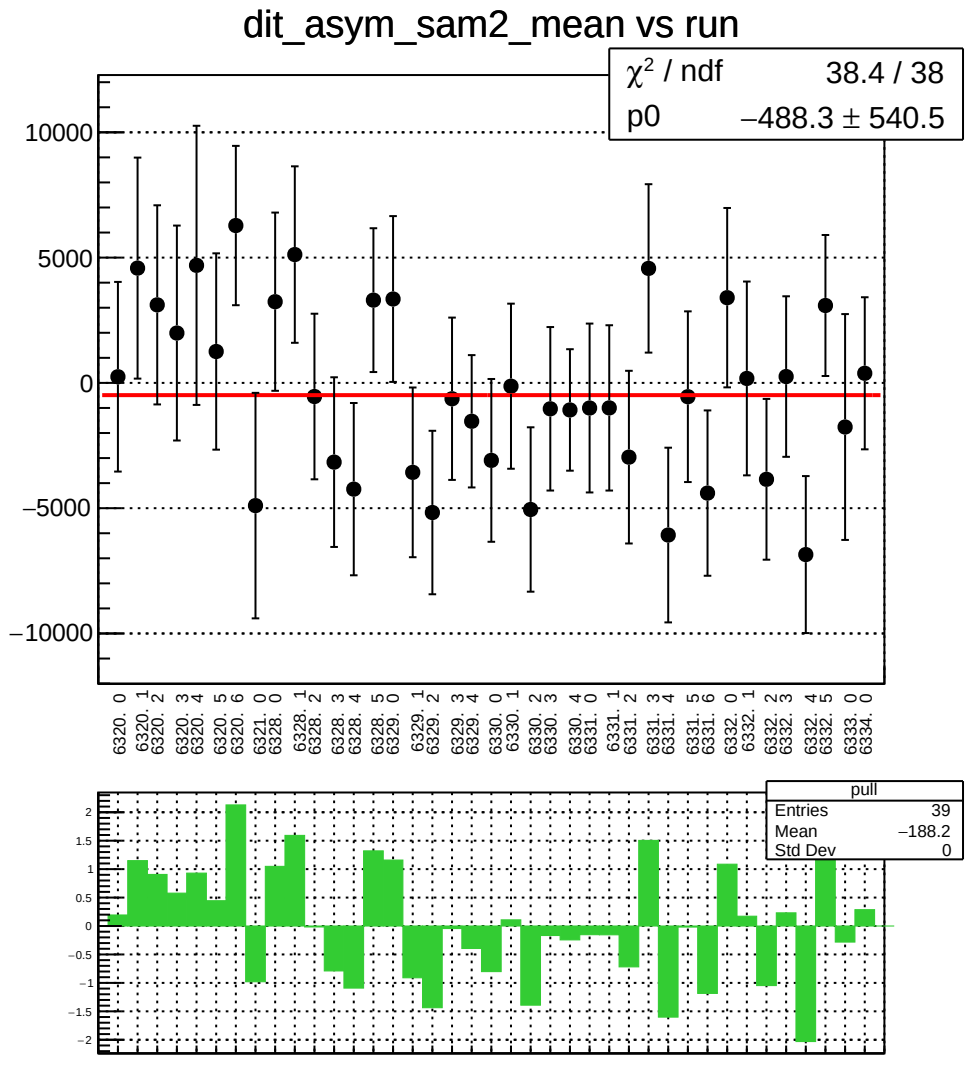

pull1D
Entries 39
Mean 0.01718
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

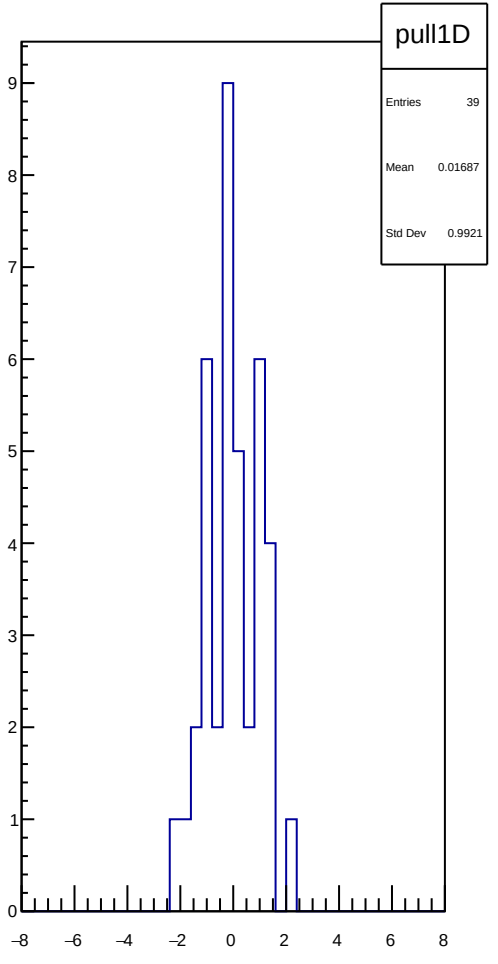

eigen_cor_asym_sam2_rms vs run
χ² / ndf 6152 / 38
p0 289.4 ± 0.3337
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

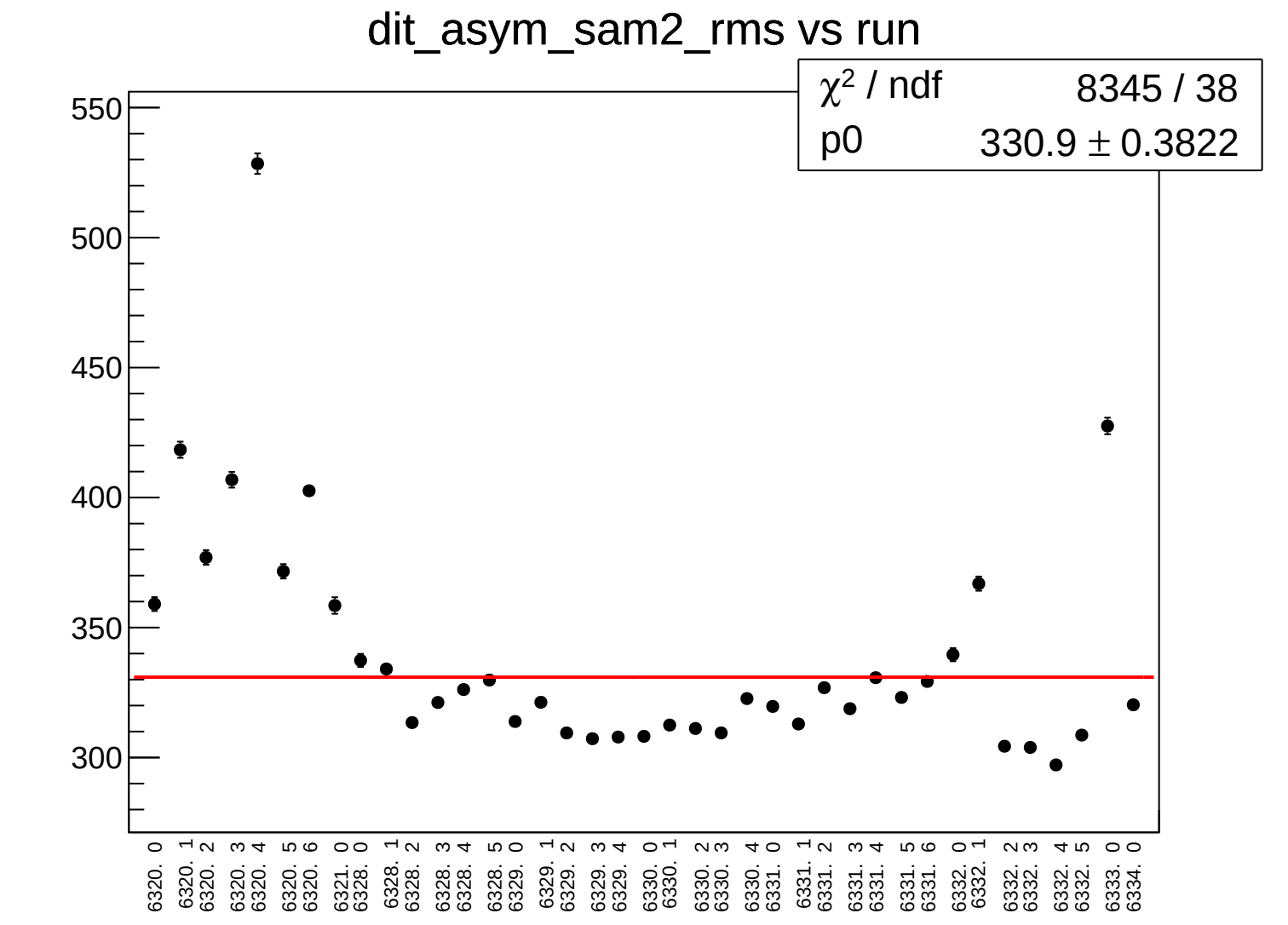

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.32 / 38
p0 −5152 ± 4793
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

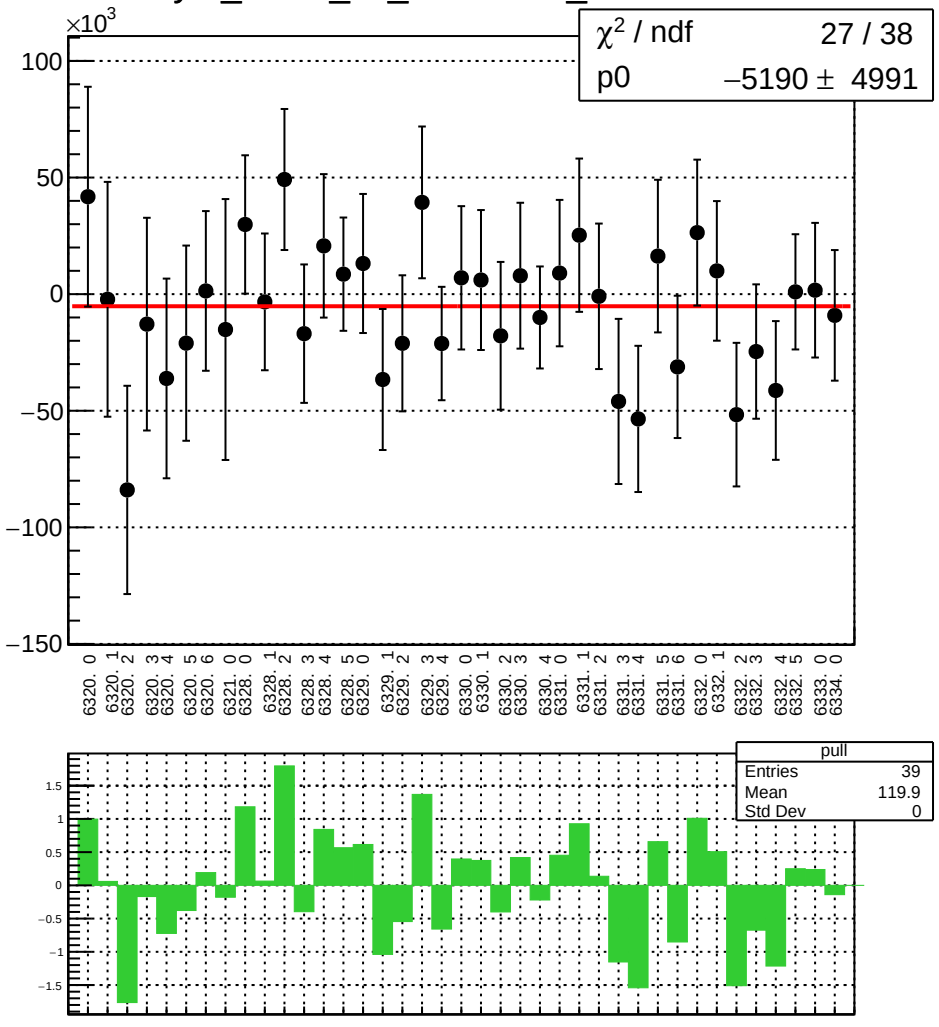

pull1D
Entries 39
Mean −0.01264
Std Dev 0.8369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

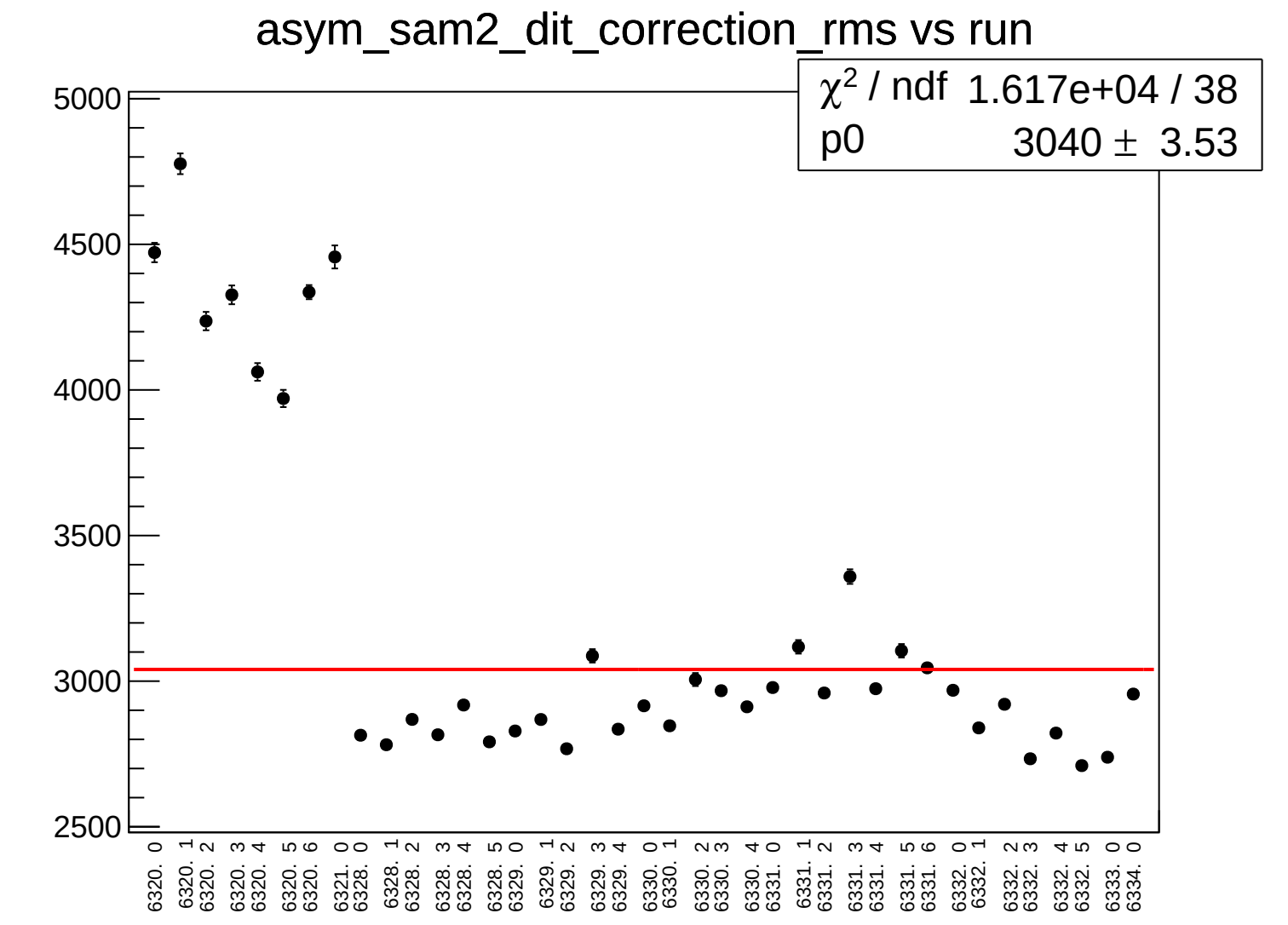

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.883e+04 / 38
p0 2914 ± 3.389
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

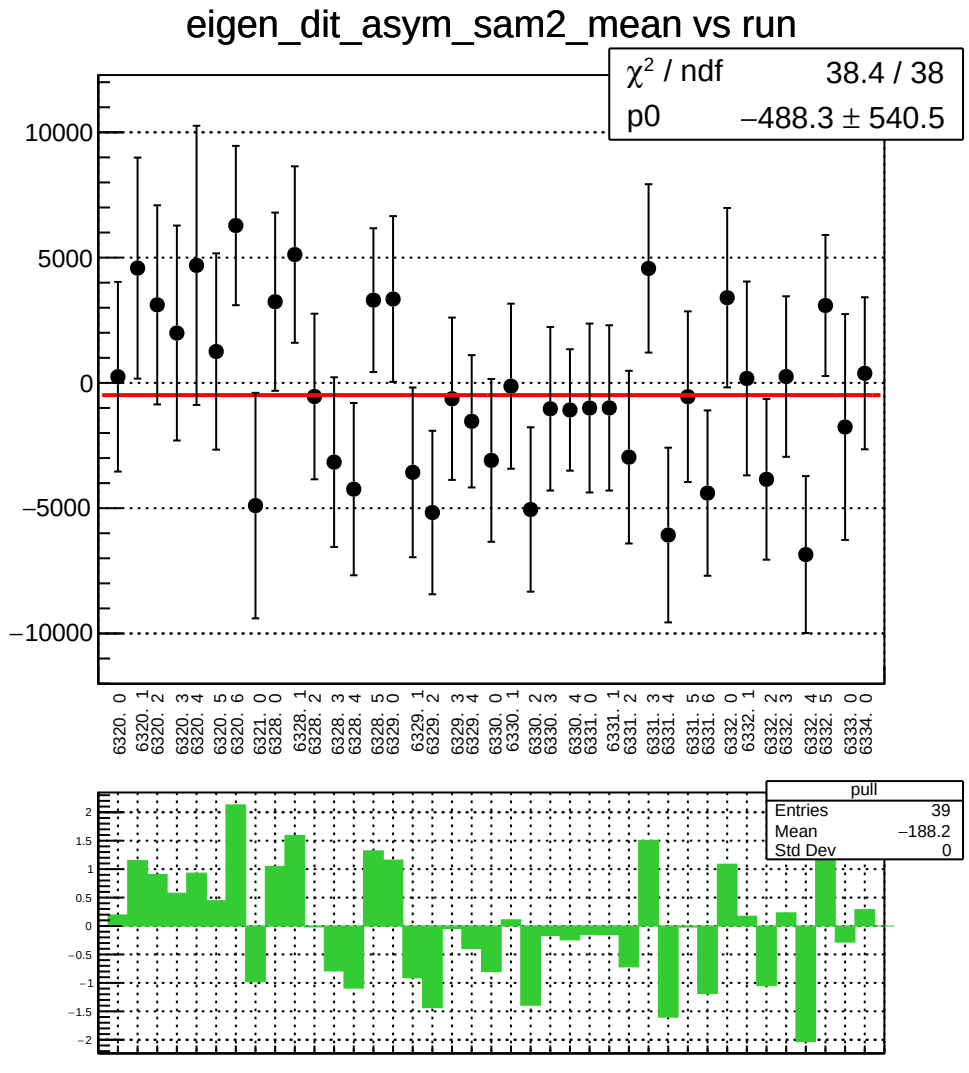

dit_asym_sam2_mean vs run
χ² / ndf 38.4 / 38
p0 −488.3 ± 540.5
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −188.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

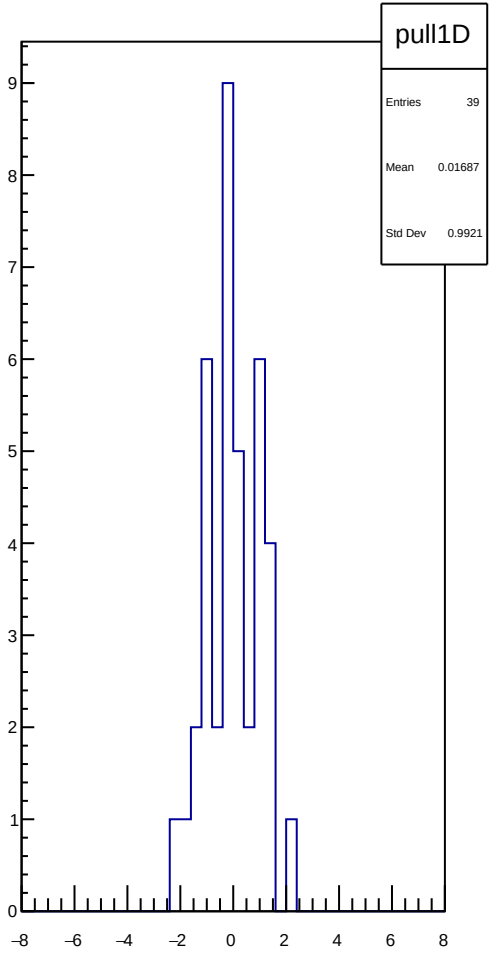

pull1D
Entries 39
Mean 0.01687
Std Dev 0.9921
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

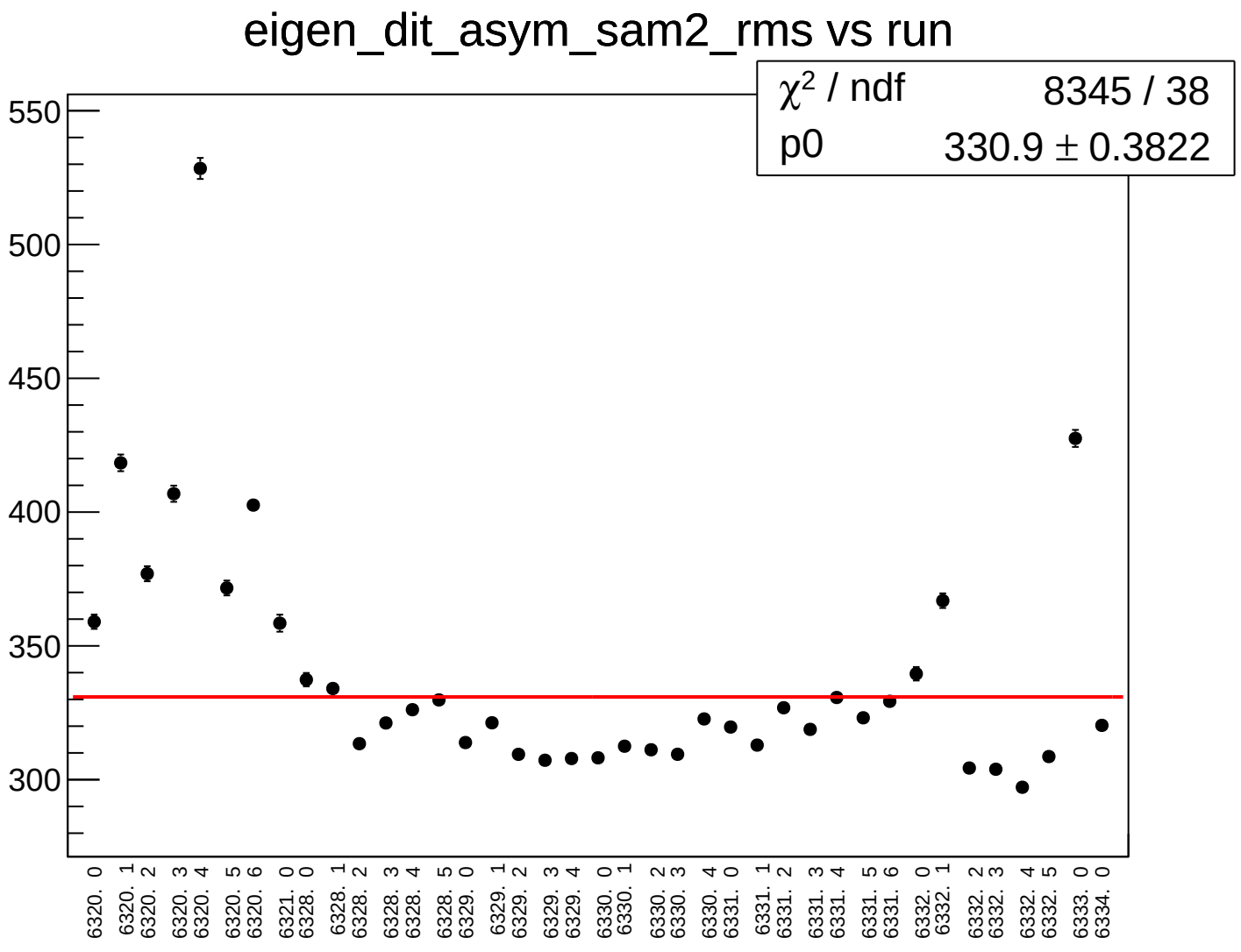

dit_asym_sam2_rms vs run
χ² / ndf 8345 / 38
p0 330.9 ± 0.3822
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

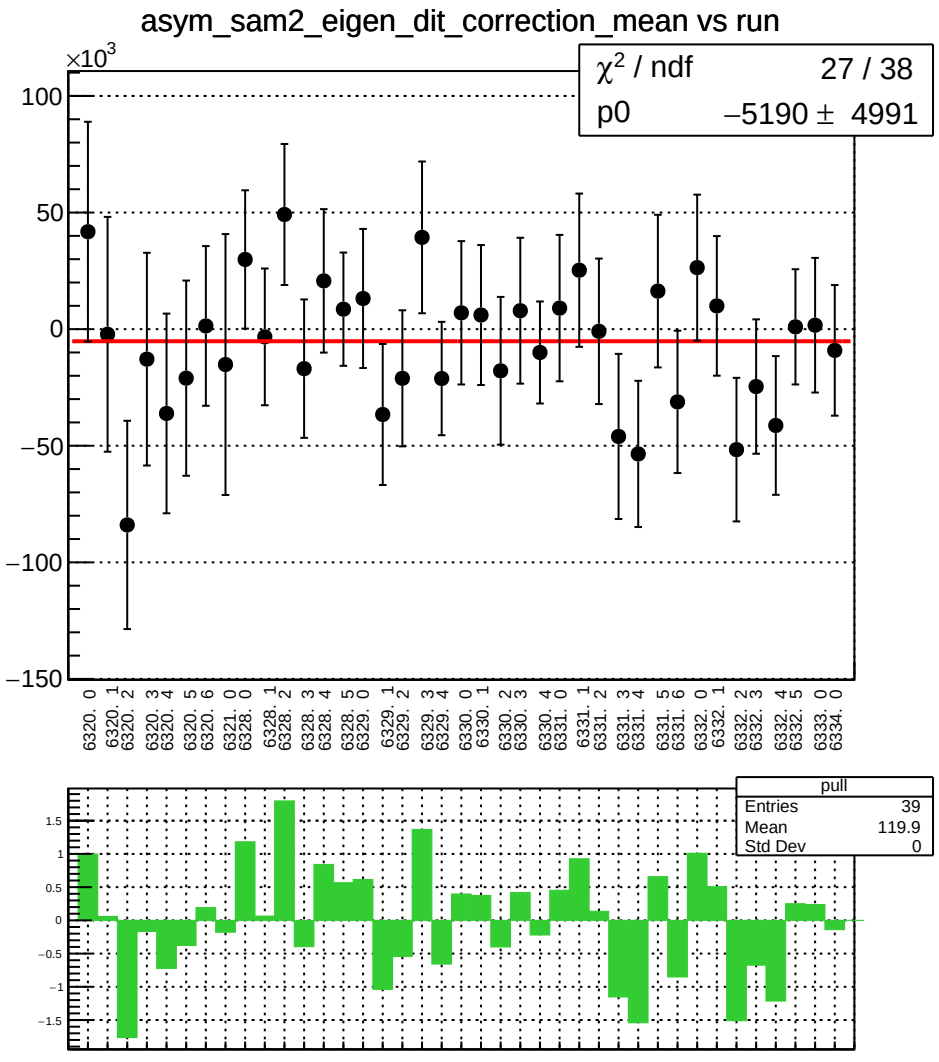

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 27 / 38
p0 −5190 ± 4991
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01279
Std Dev 0.8319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

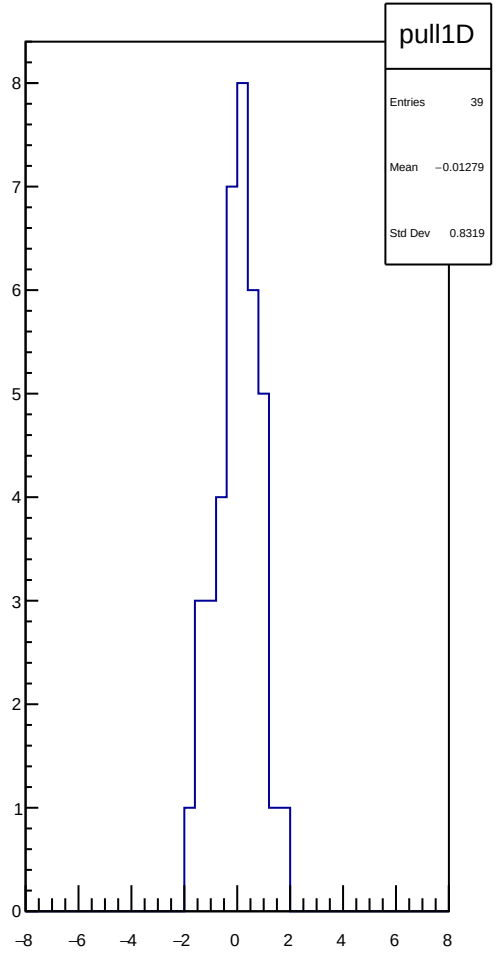

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.617e+04 / 38
p0 3040 ± 3.53
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

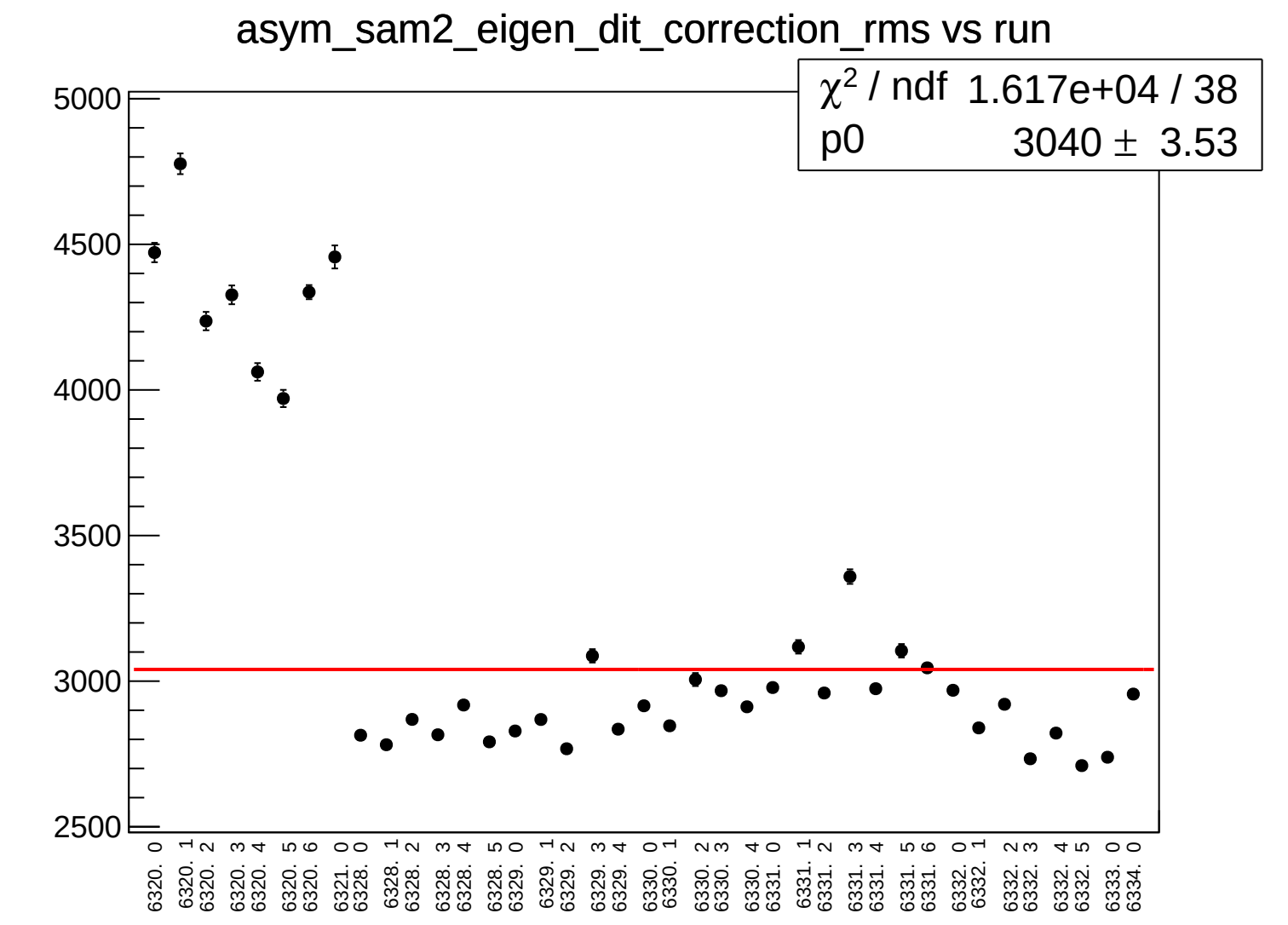

eigen_dit_asym_sam2_mean vs run
χ² / ndf 38.4 / 38
p0 −488.3 ± 540.5
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −188.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.01687
Std Dev 0.9921
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam2_rms vs run
χ² / ndf 8345 / 38
p0 330.9 ± 0.3822
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 27 / 38
p0 −5190 ± 4991
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 119.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.01279
Std Dev 0.8319
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 1.617e+04 / 38
p0 3040 ± 3.53
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
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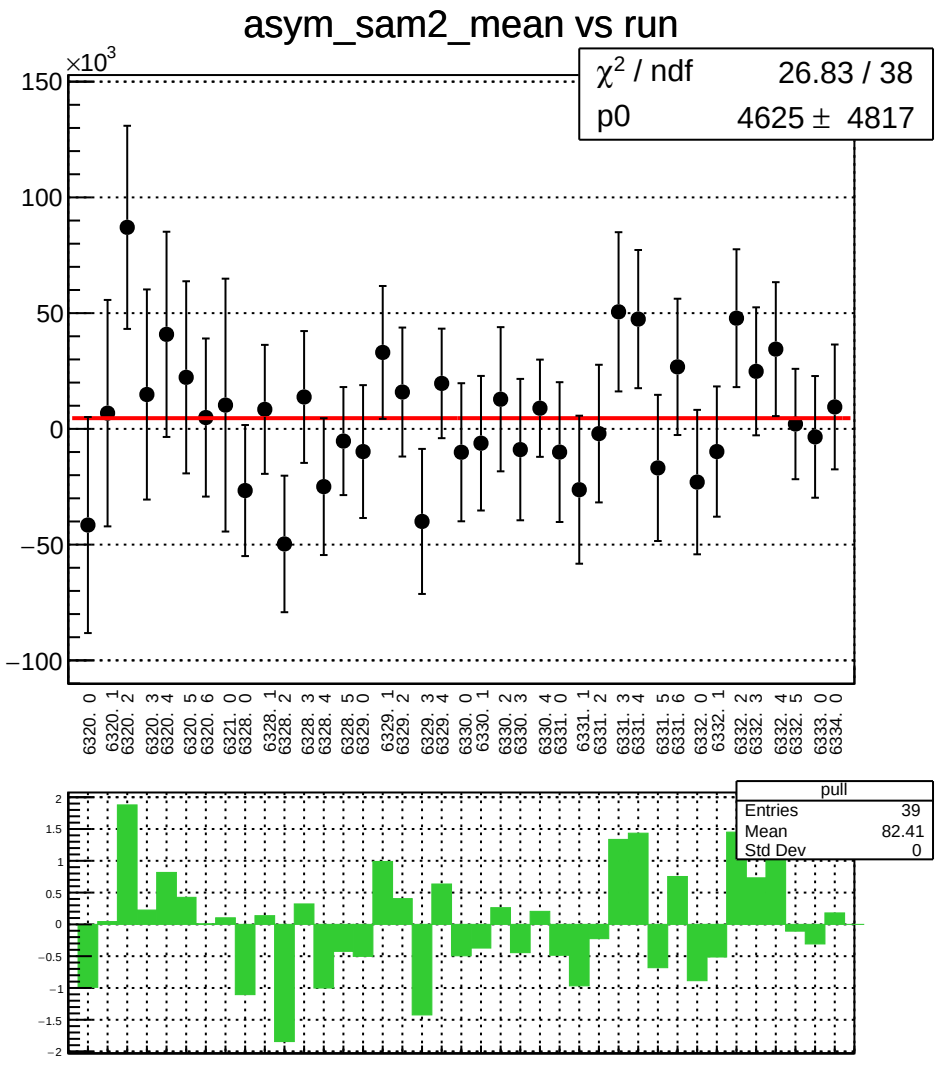
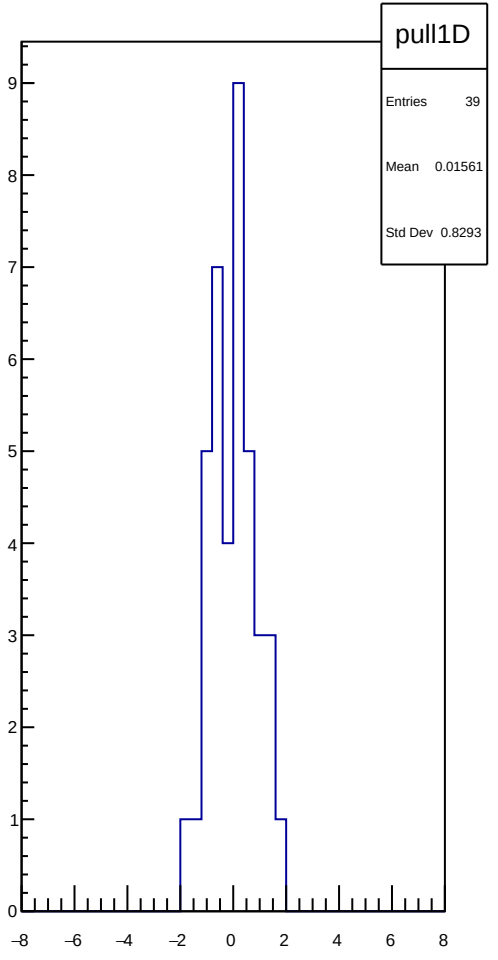
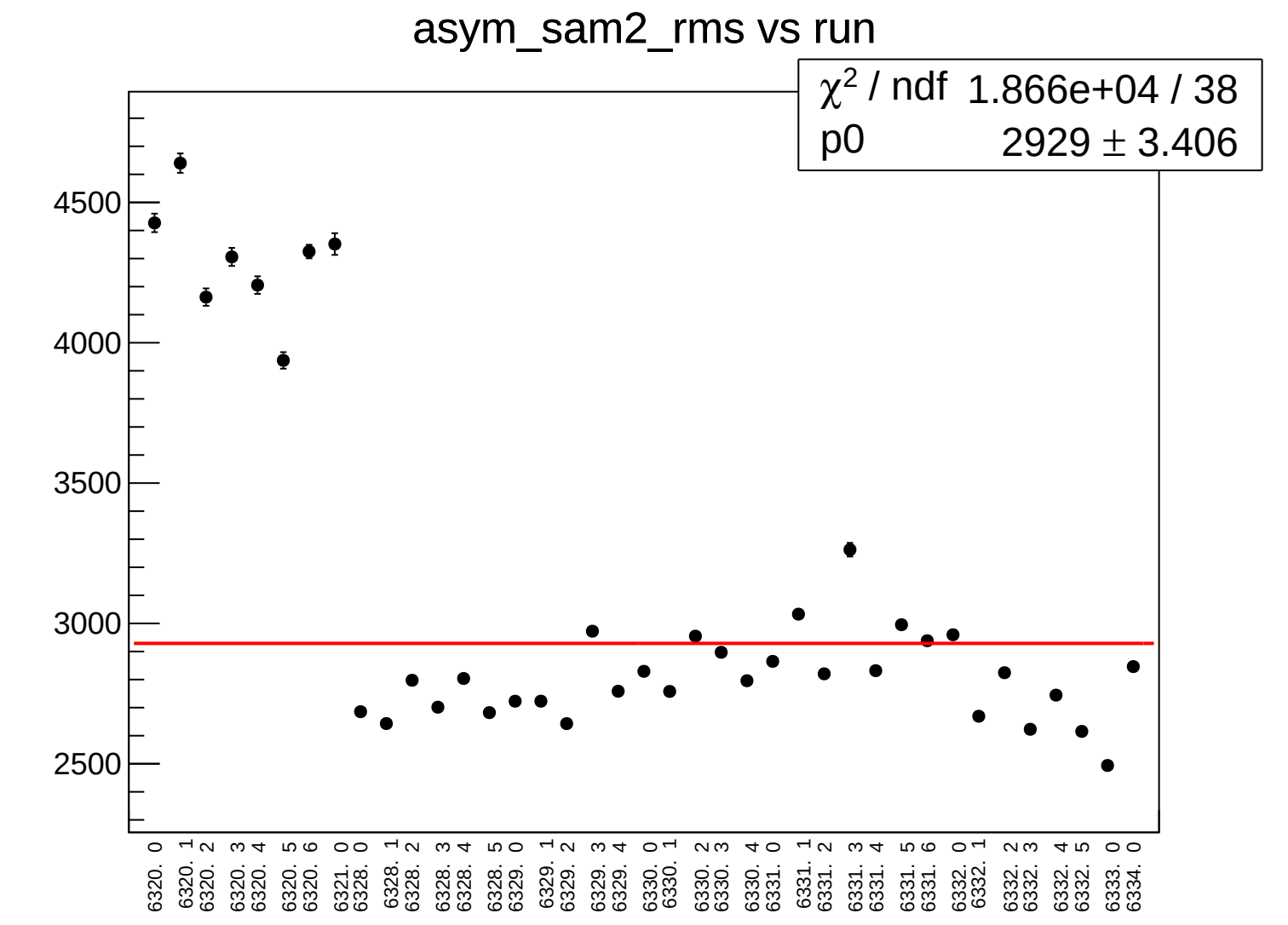
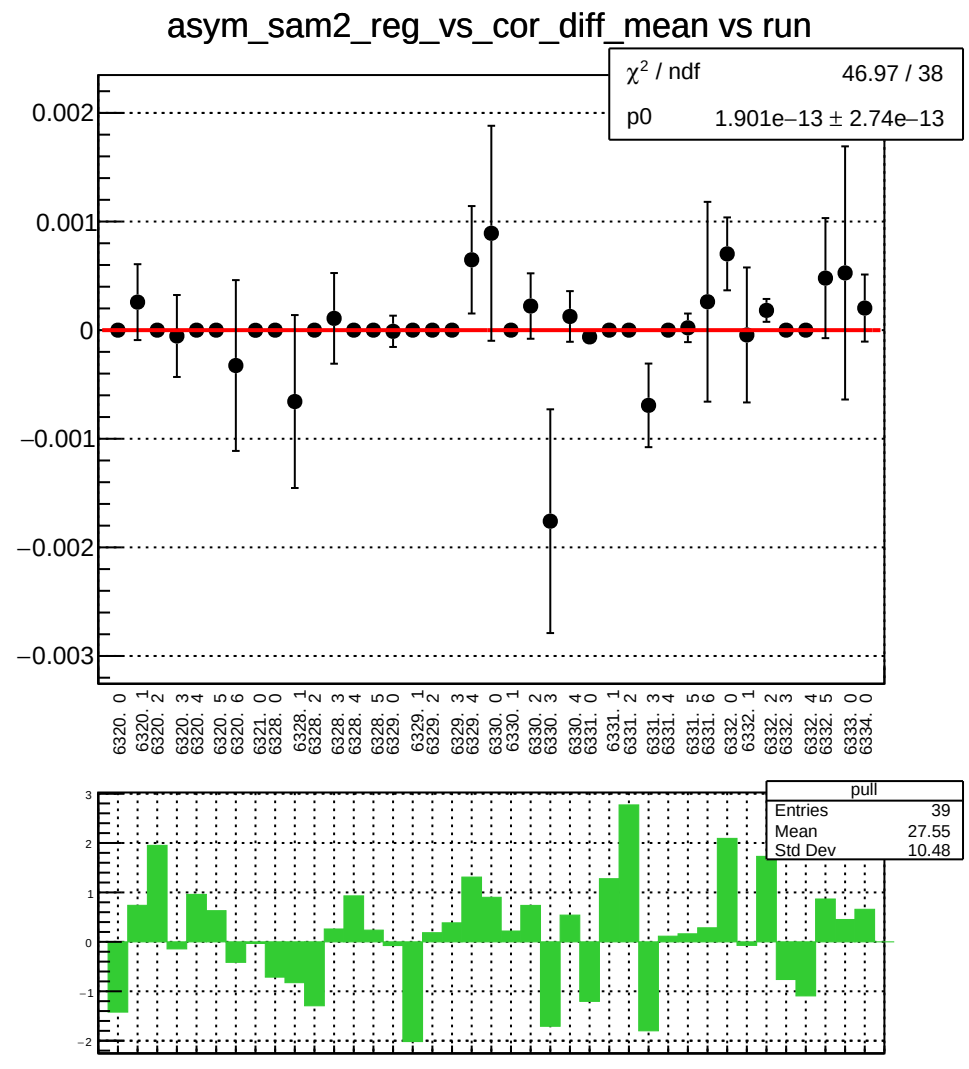
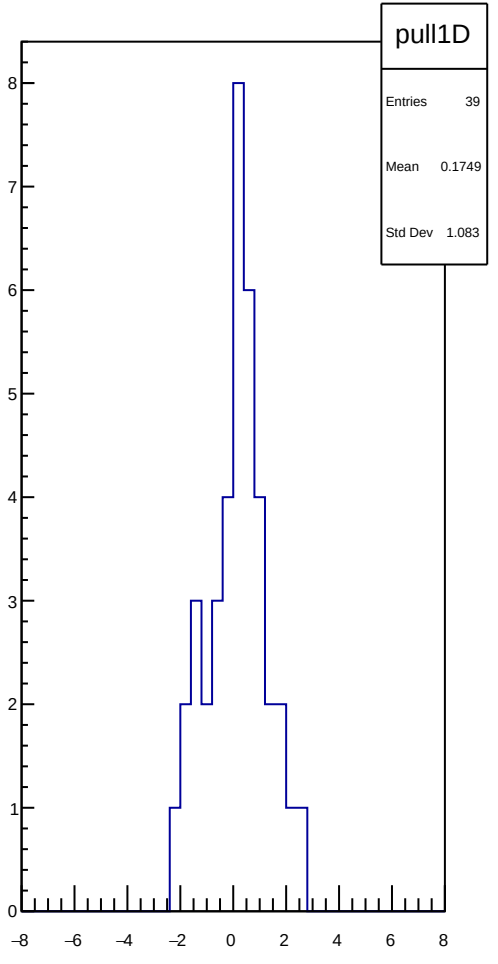
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

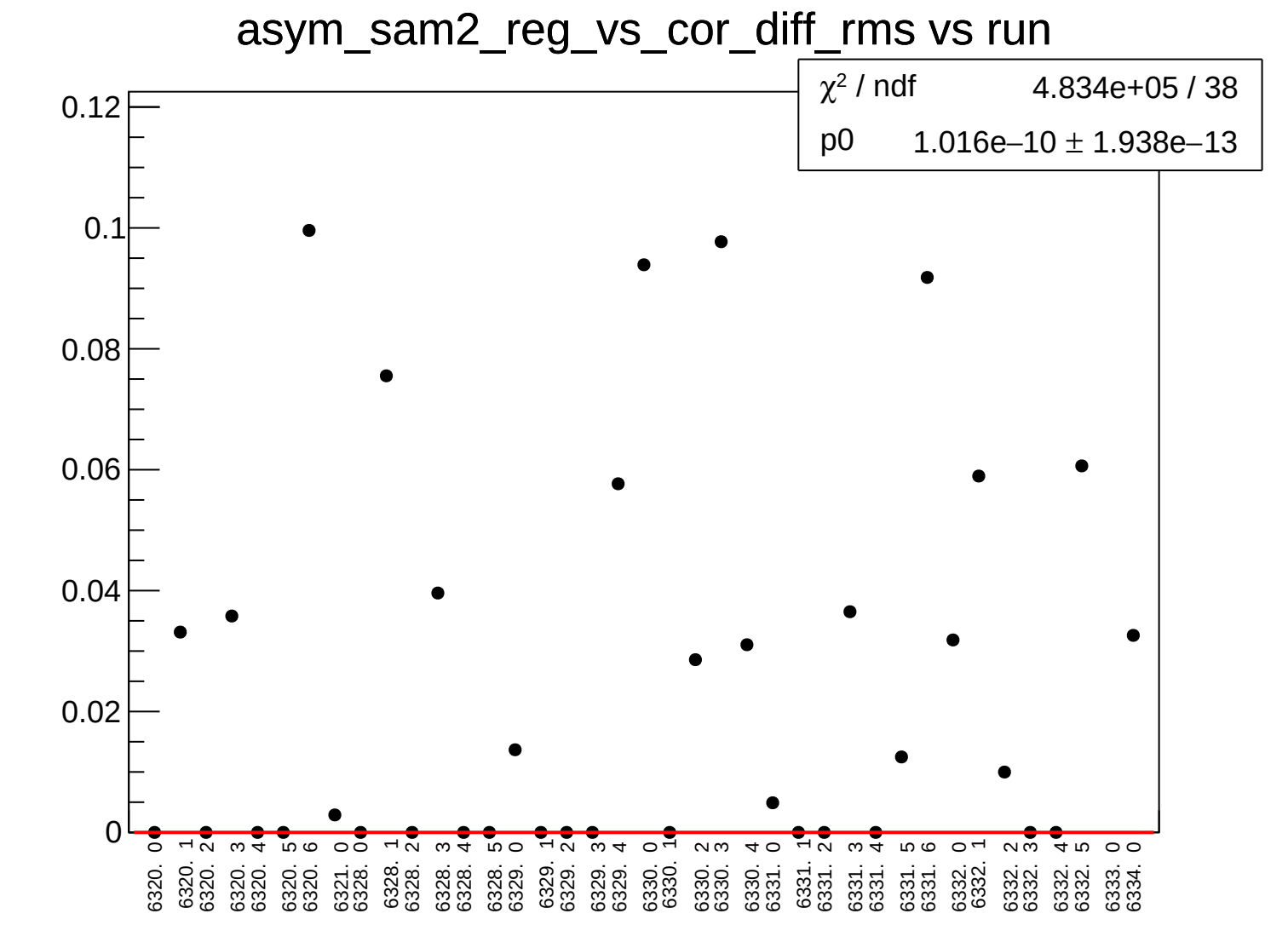

asym_sam2_mean vs run
×10^3
χ^2 / ndf 26.83 / 38
p0 4625 ± 4817
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 82.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

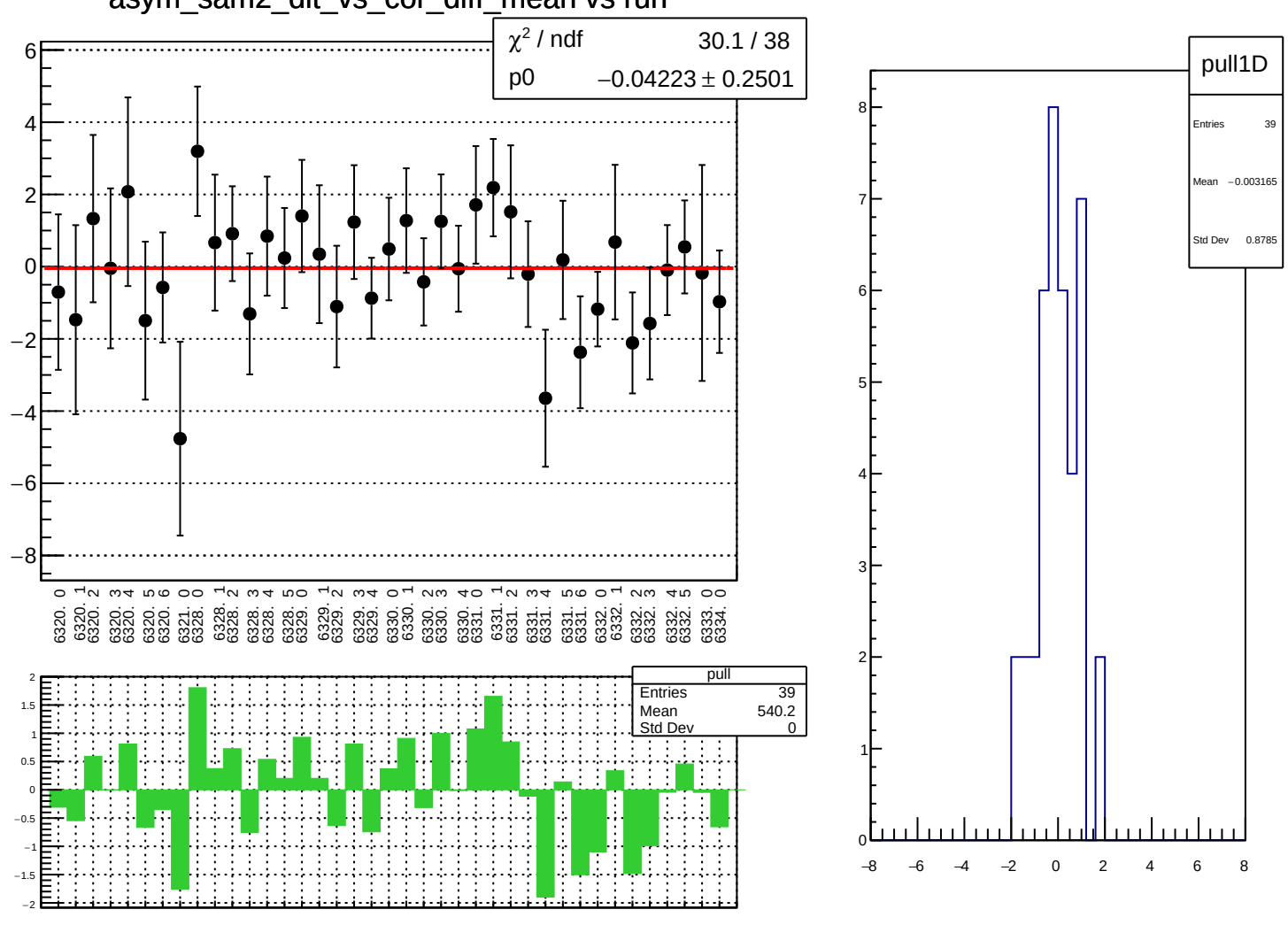

pull1D
Entries 39
Mean 0.01561
Std Dev 0.8293
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

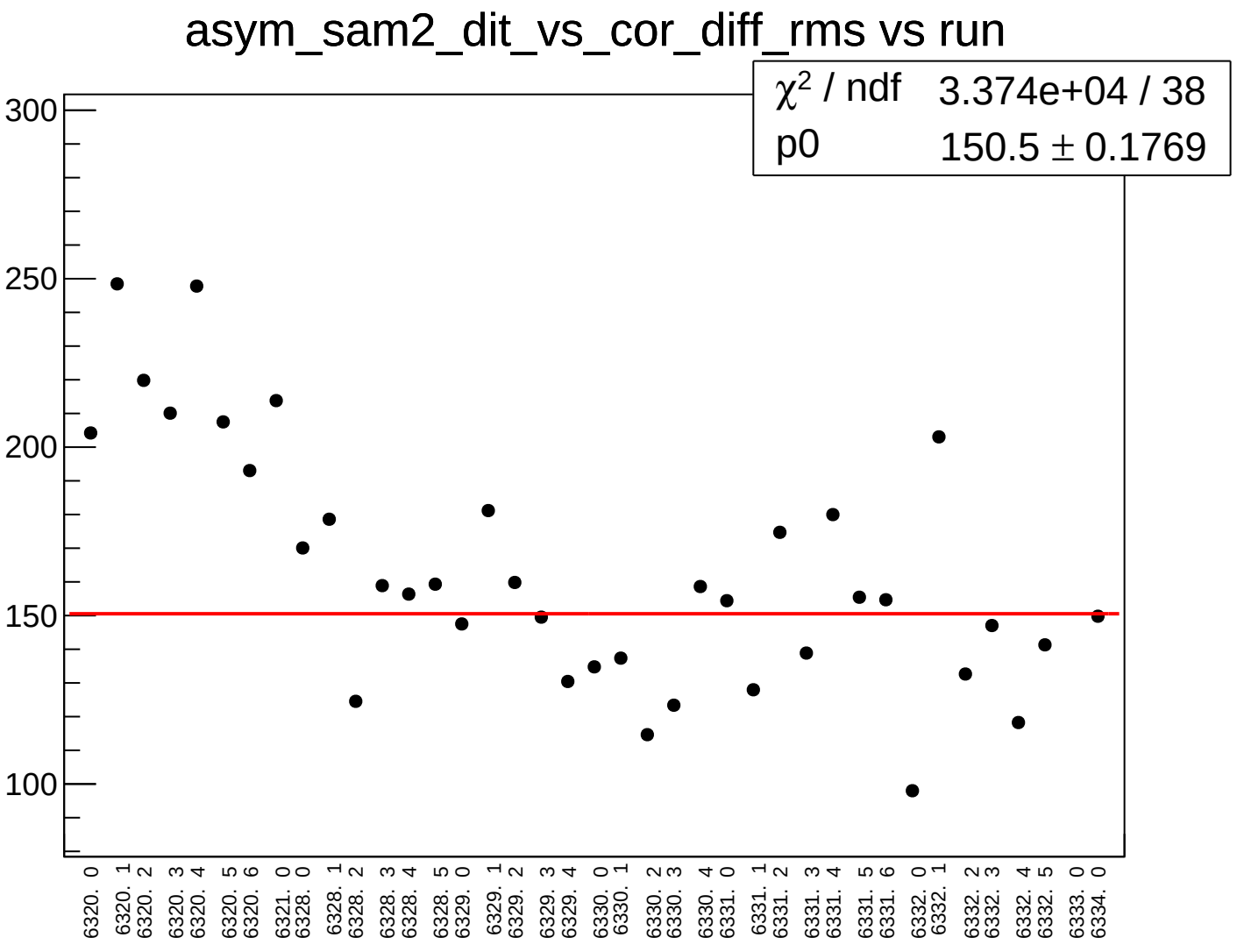

asym_sam2_rms vs run
χ² / ndf 1.866e+04 / 38
p0 2929 ± 3.406
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

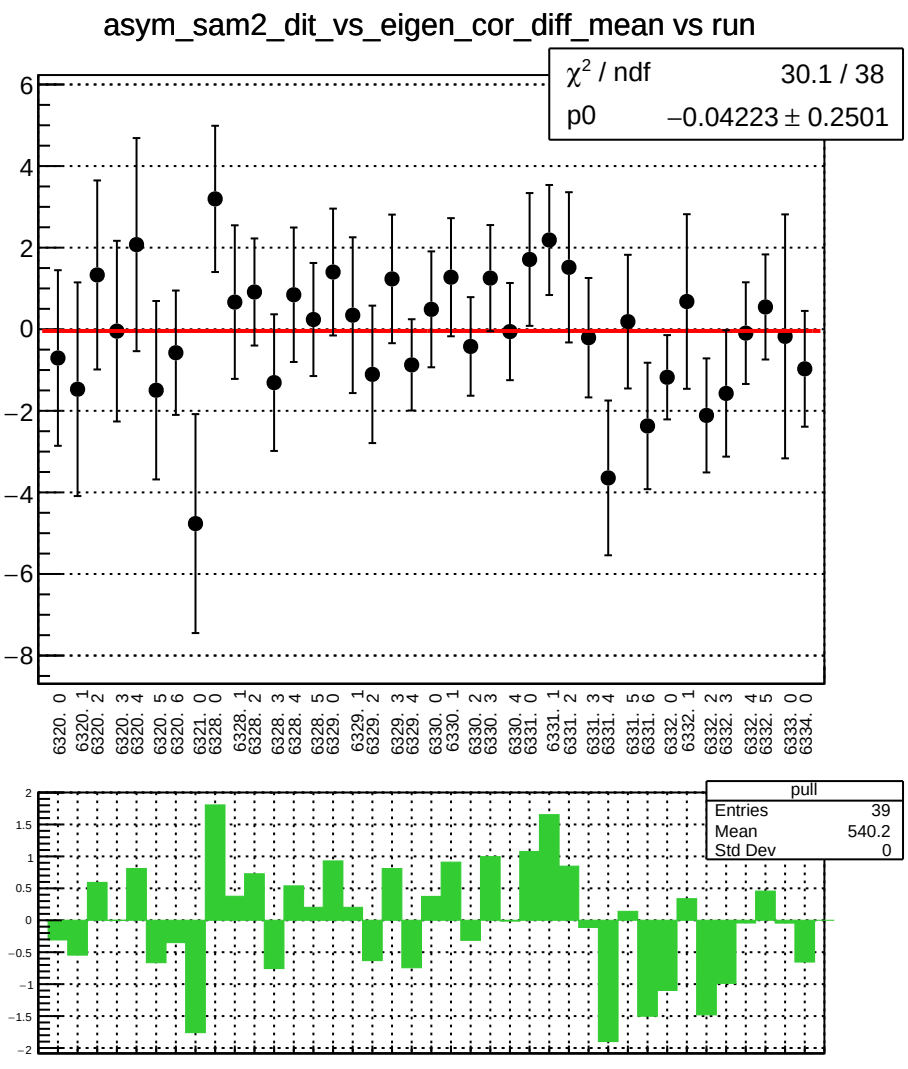

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 46.97 / 38
p0 1.901e−13 ± 2.74e−13
0.002
0.001
0
−0.001
−0.002
−0.003
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.55
Std Dev 10.48
3
2
1
0
−1
−2

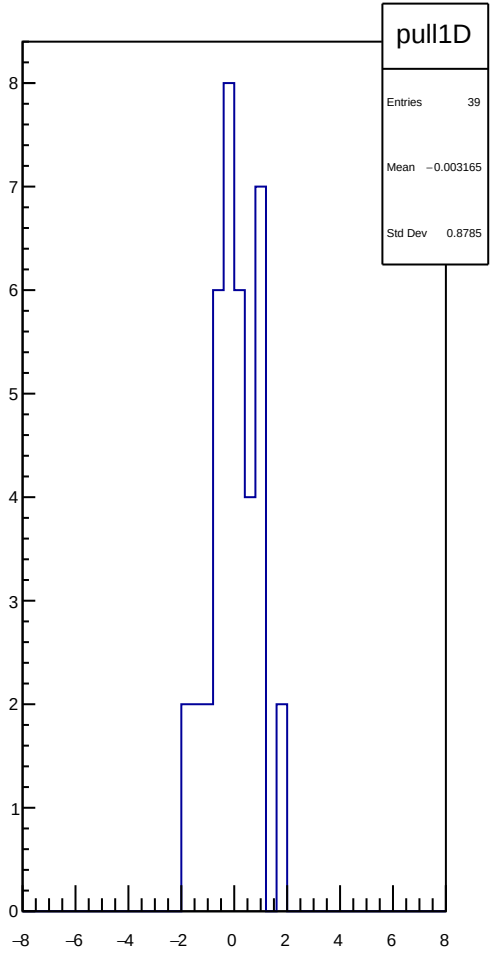

pull1D
Entries 39
Mean 0.1749
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

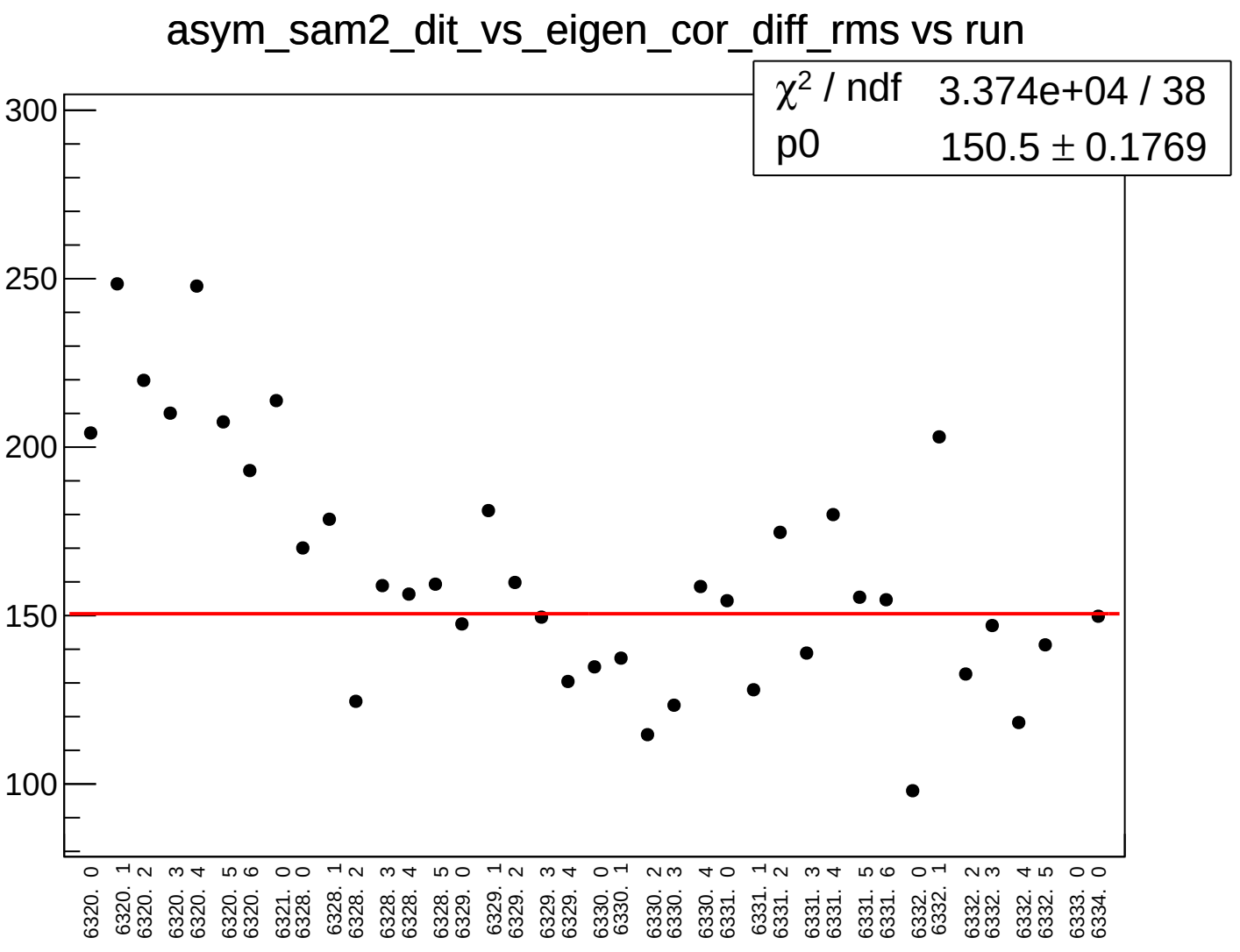

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.834e+05 / 38
p0 1.016e−10 ± 1.938e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

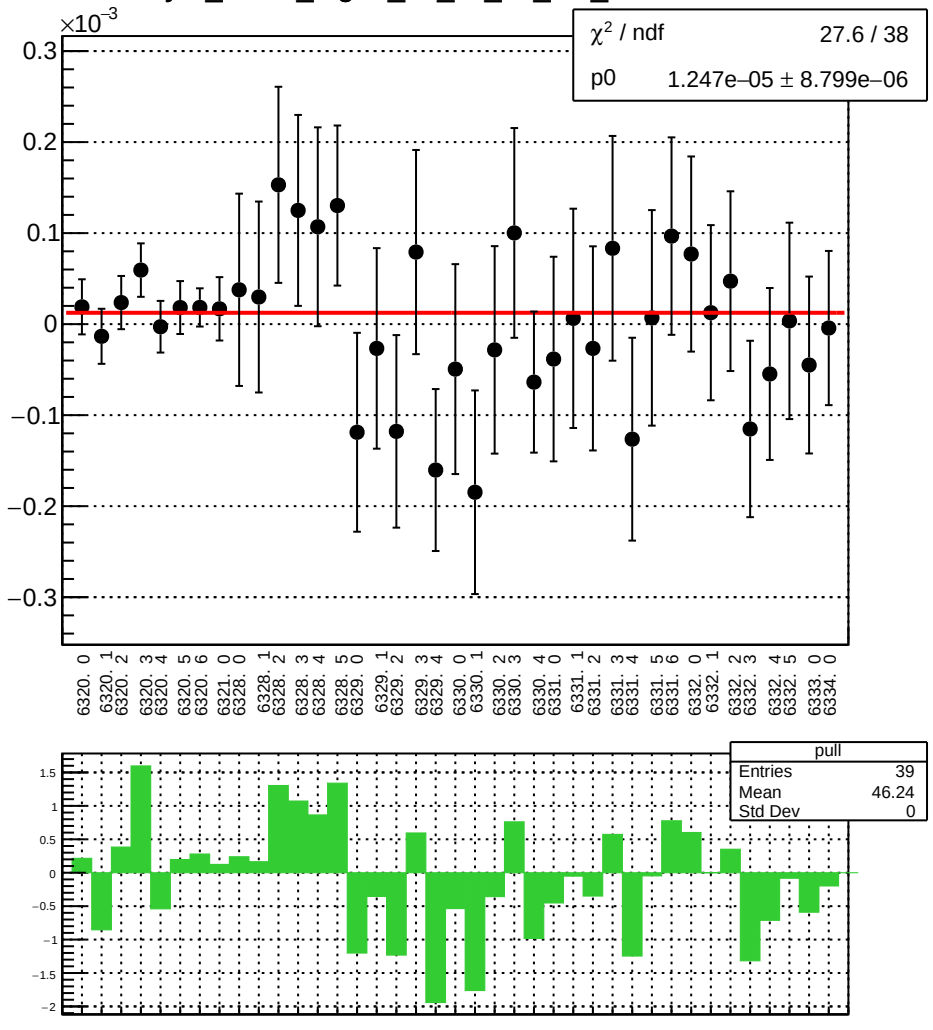

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 30.1 / 38
p0 −0.04223 ± 0.2501
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 540.2
Std Dev 0
pull1D
Entries 39
Mean −0.003165
Std Dev 0.8785

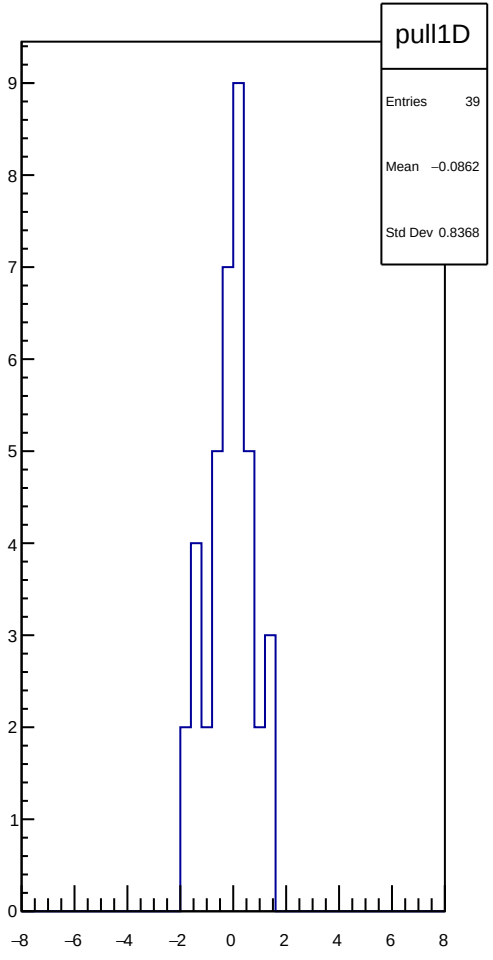

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.374e+04 / 38
p0 150.5 ± 0.1769
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

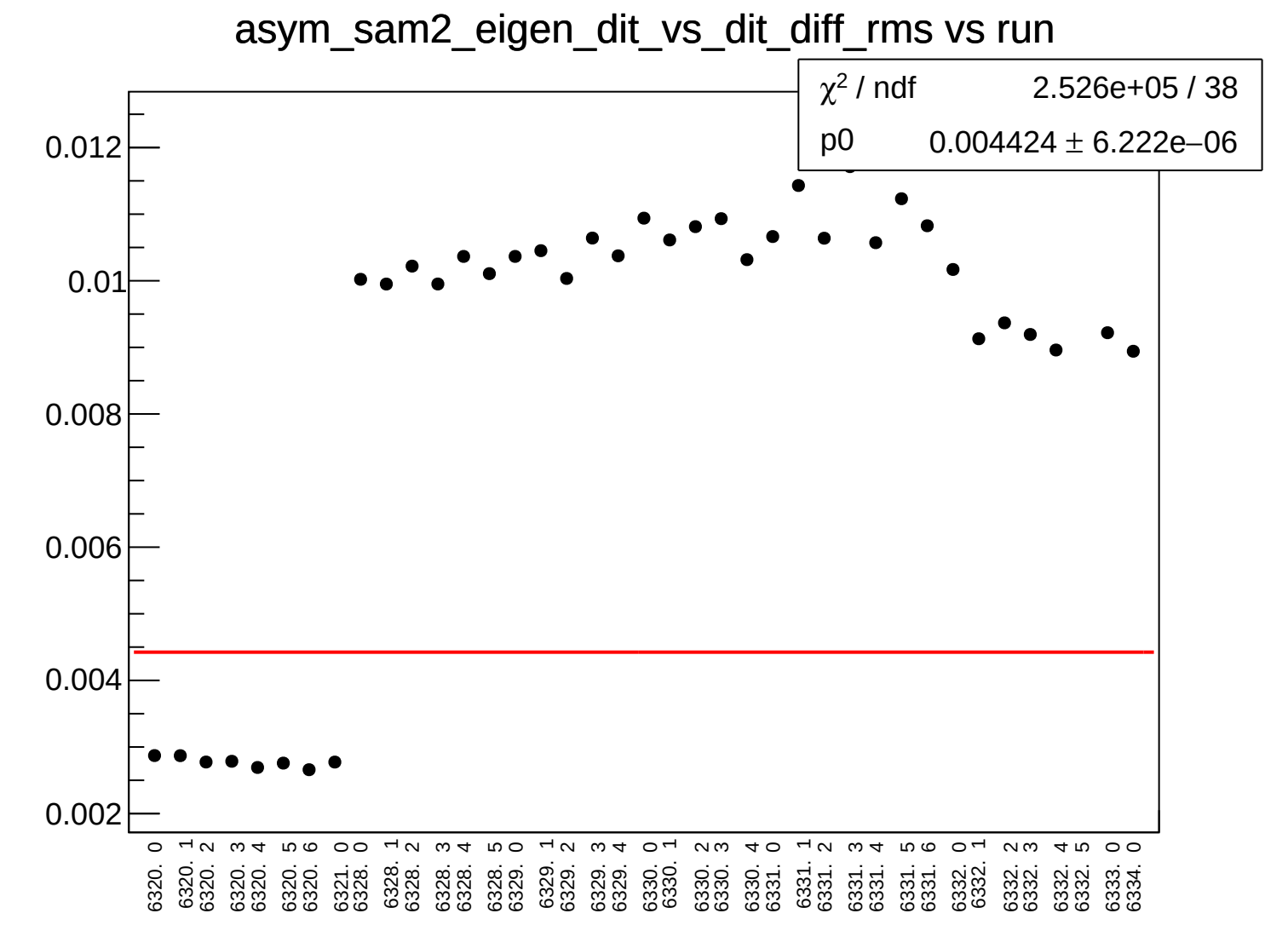

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.1 / 38
p0 −0.04223 ± 0.2501
pull
Entries 39
Mean 540.2
Std Dev 0

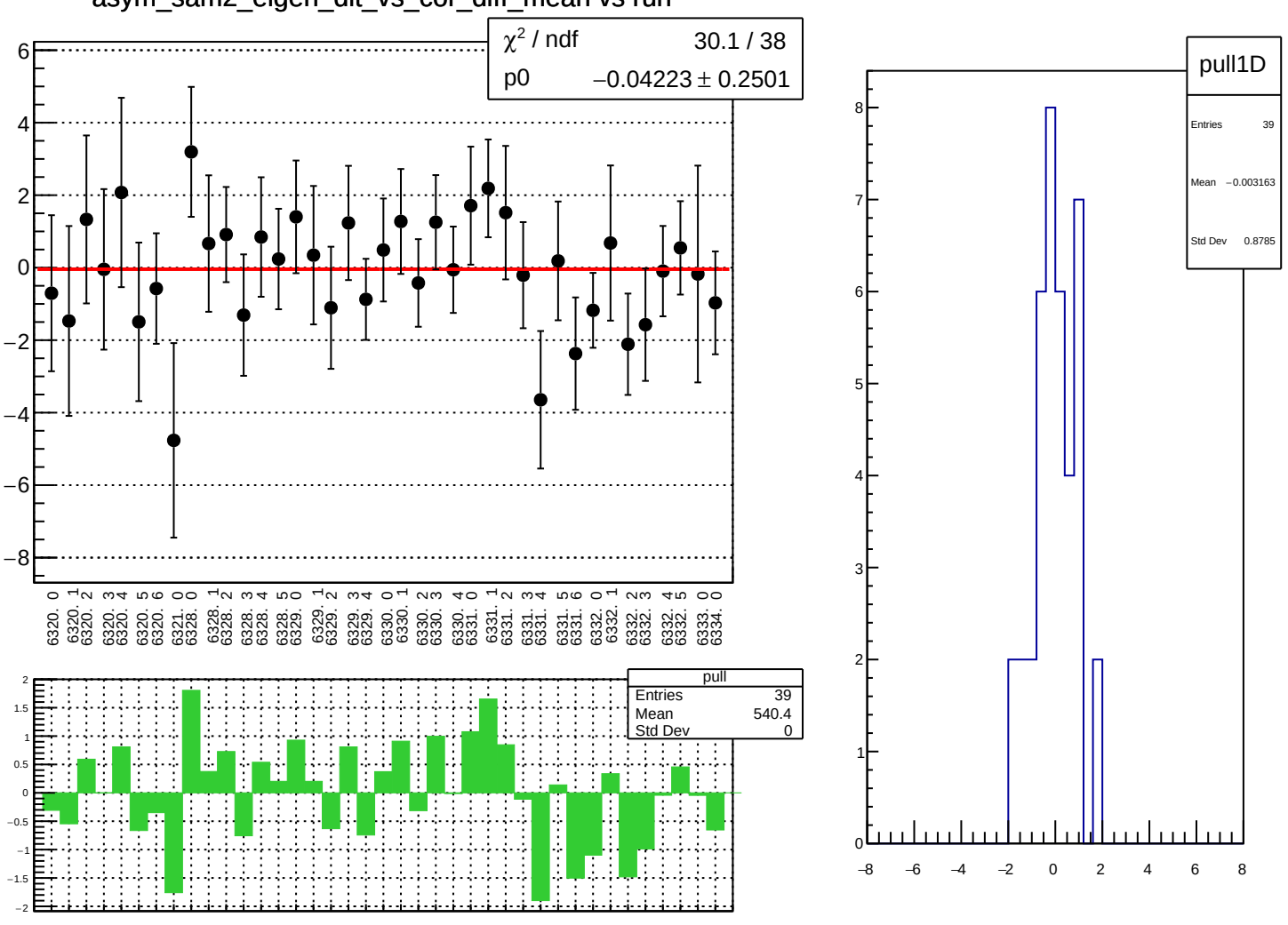

pull1D
Entries 39
Mean −0.003165
Std Dev 0.8785

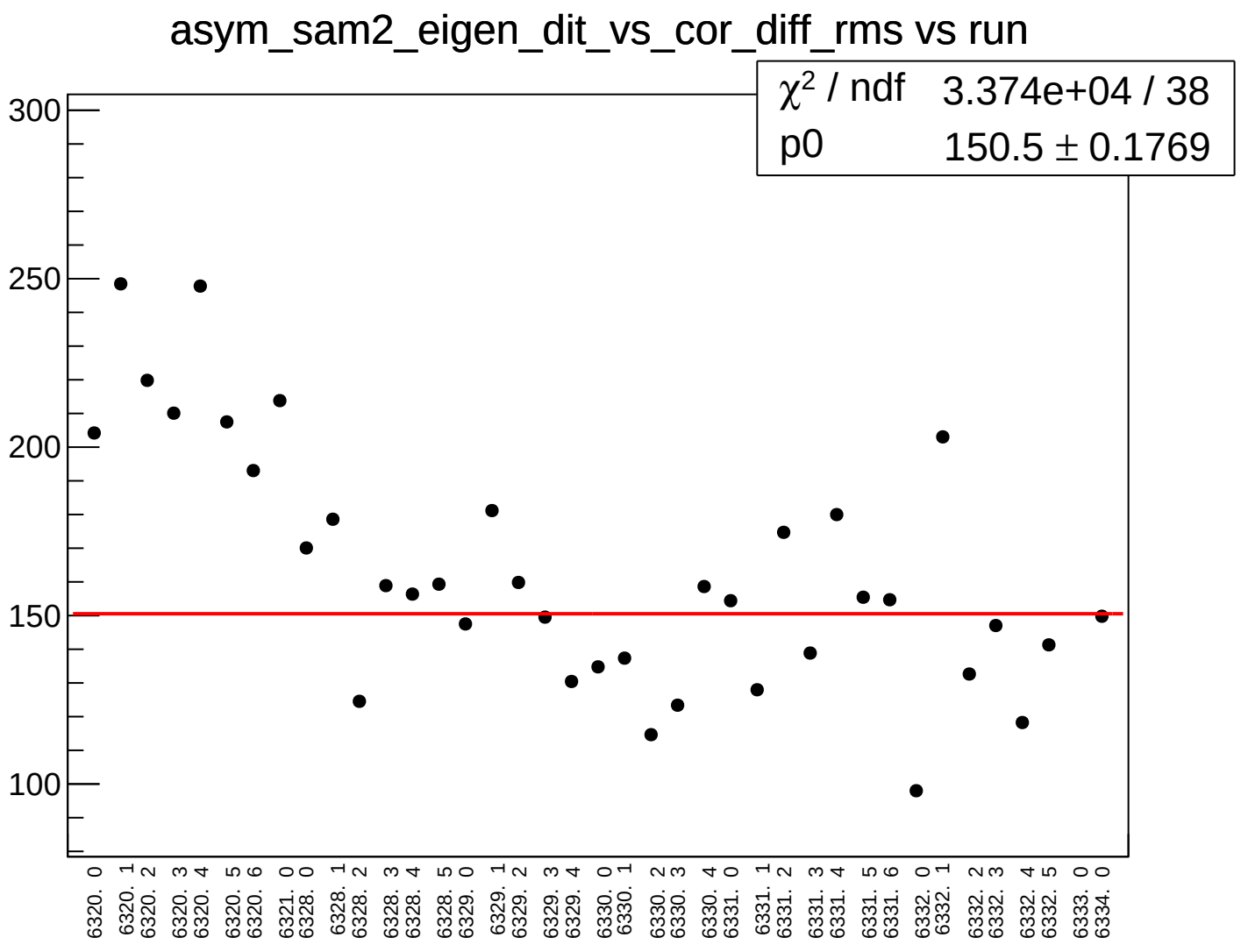

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.374e+04 / 38
p0 150.5 ± 0.1769
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

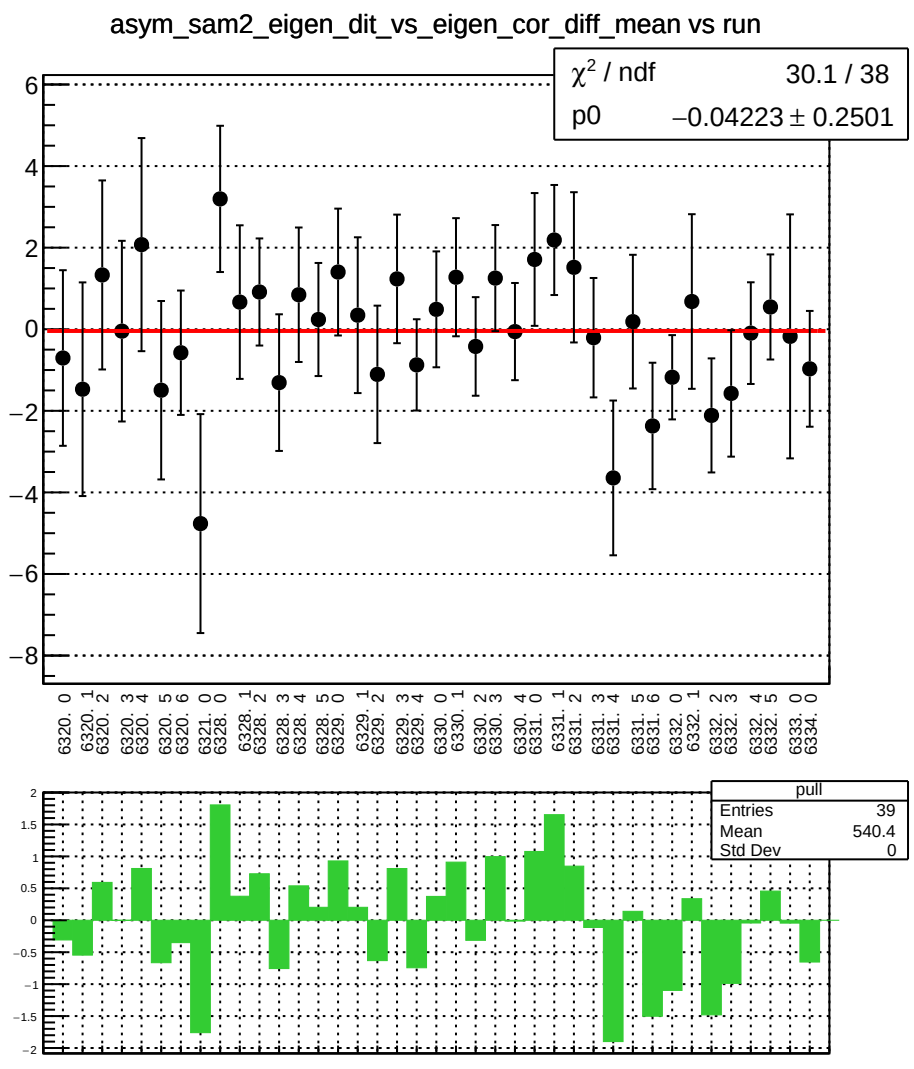

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.6 / 38
p0 1.247e−05 ± 8.799e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 46.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

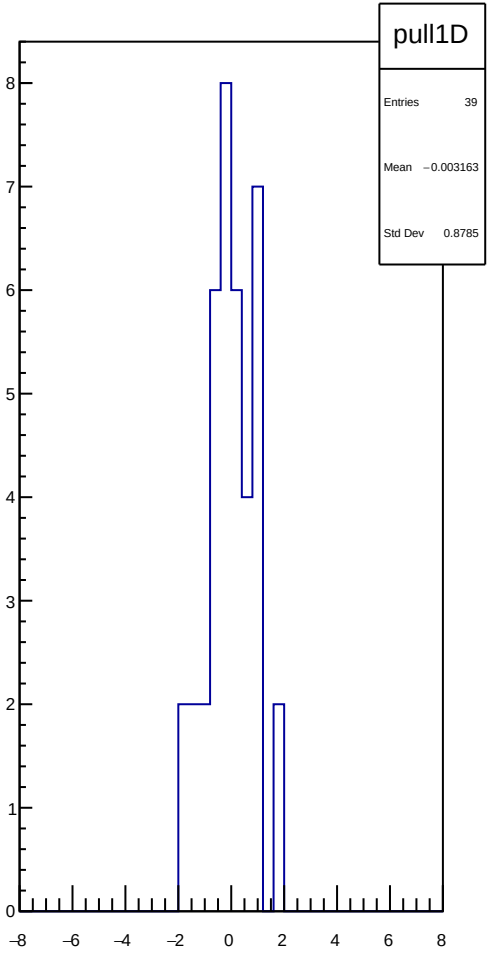

pull1D
Entries 39
Mean −0.0862
Std Dev 0.8368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

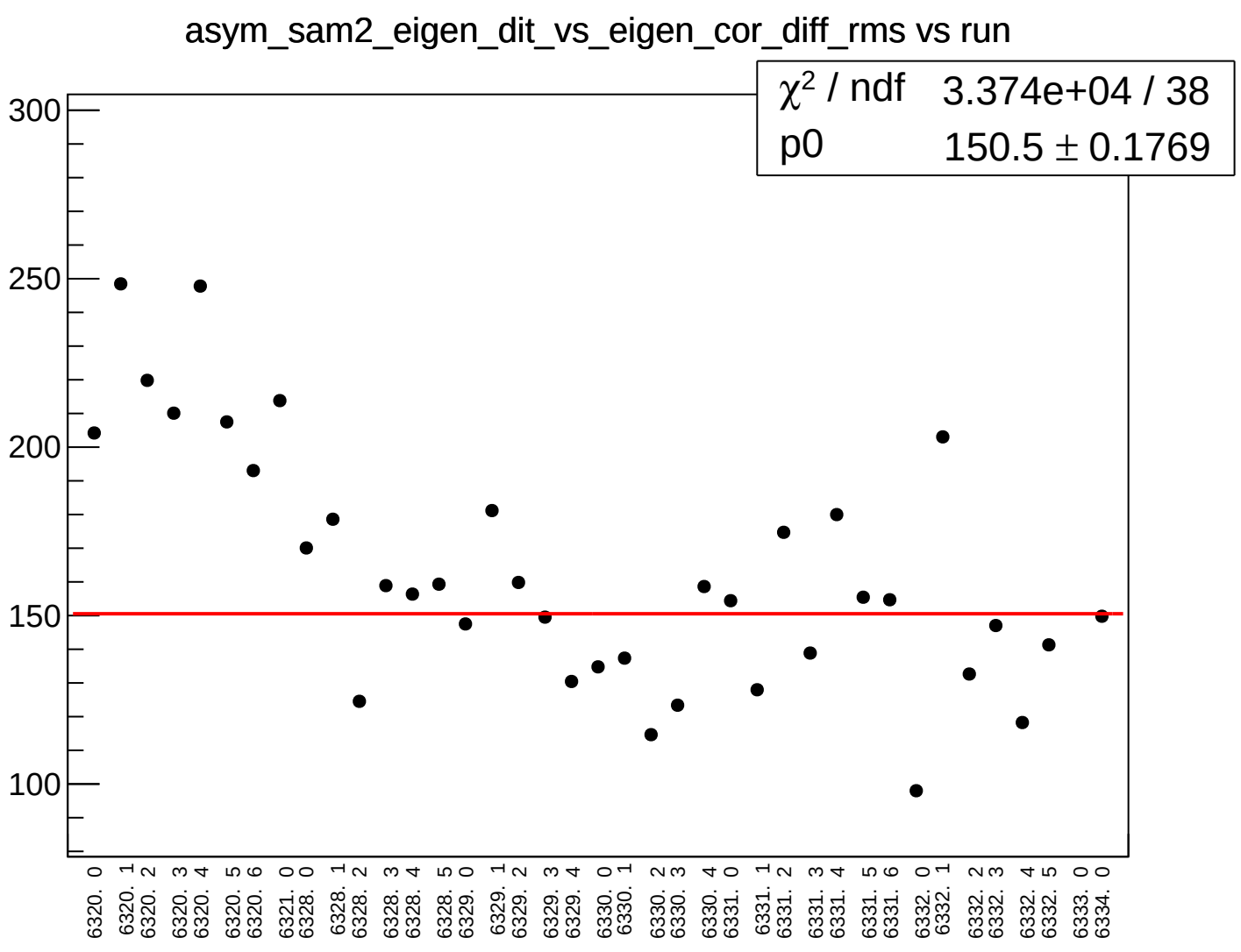

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.526e+05 / 38
p0 0.004424 ± 6.222e−06
0.012
0.01
0.008
0.006
0.004
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

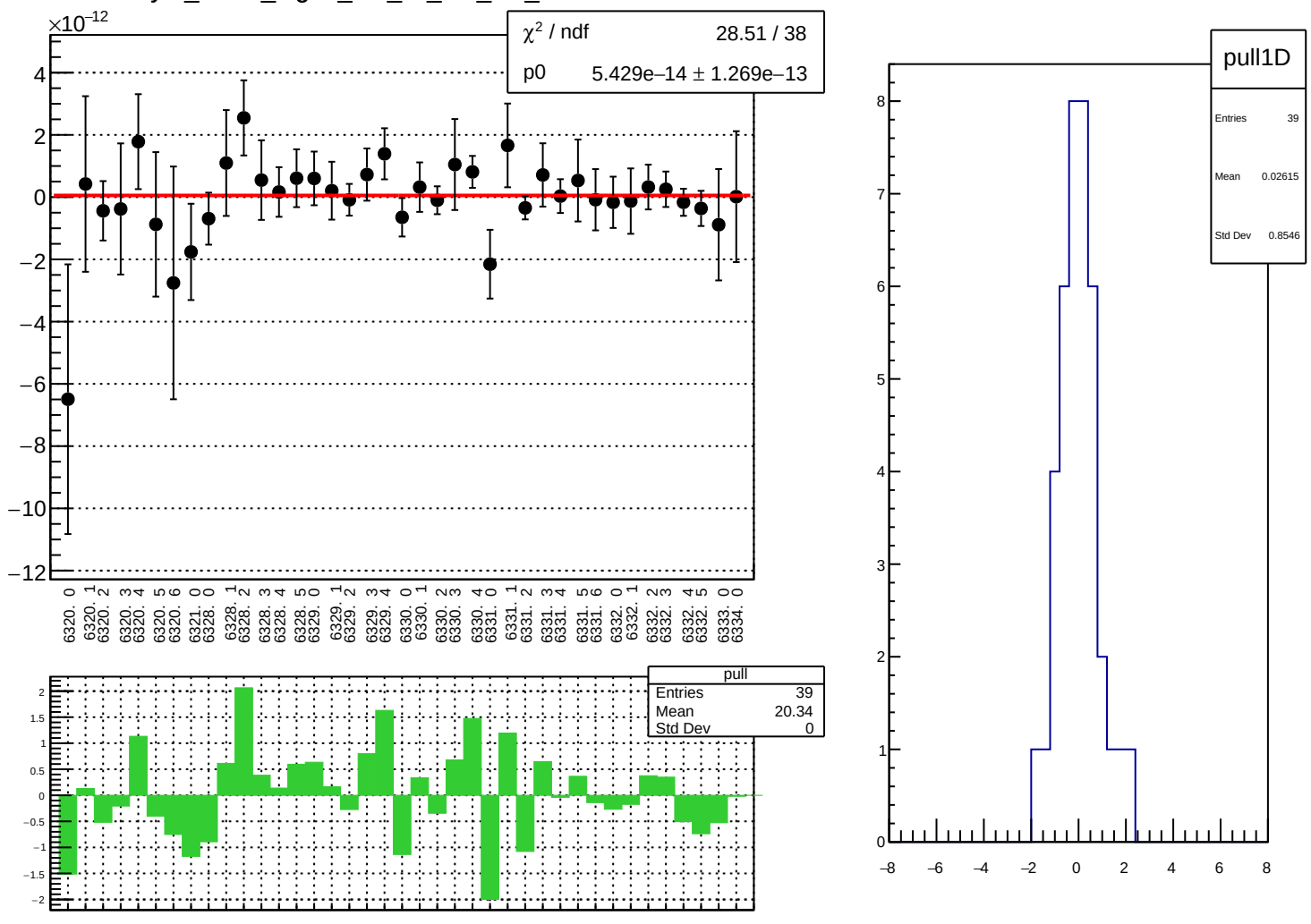

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.1 / 38
p0 −0.04223 ± 0.2501
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 540.4
Std Dev 0
pull1D
Entries 39
Mean −0.003163
Std Dev 0.8785

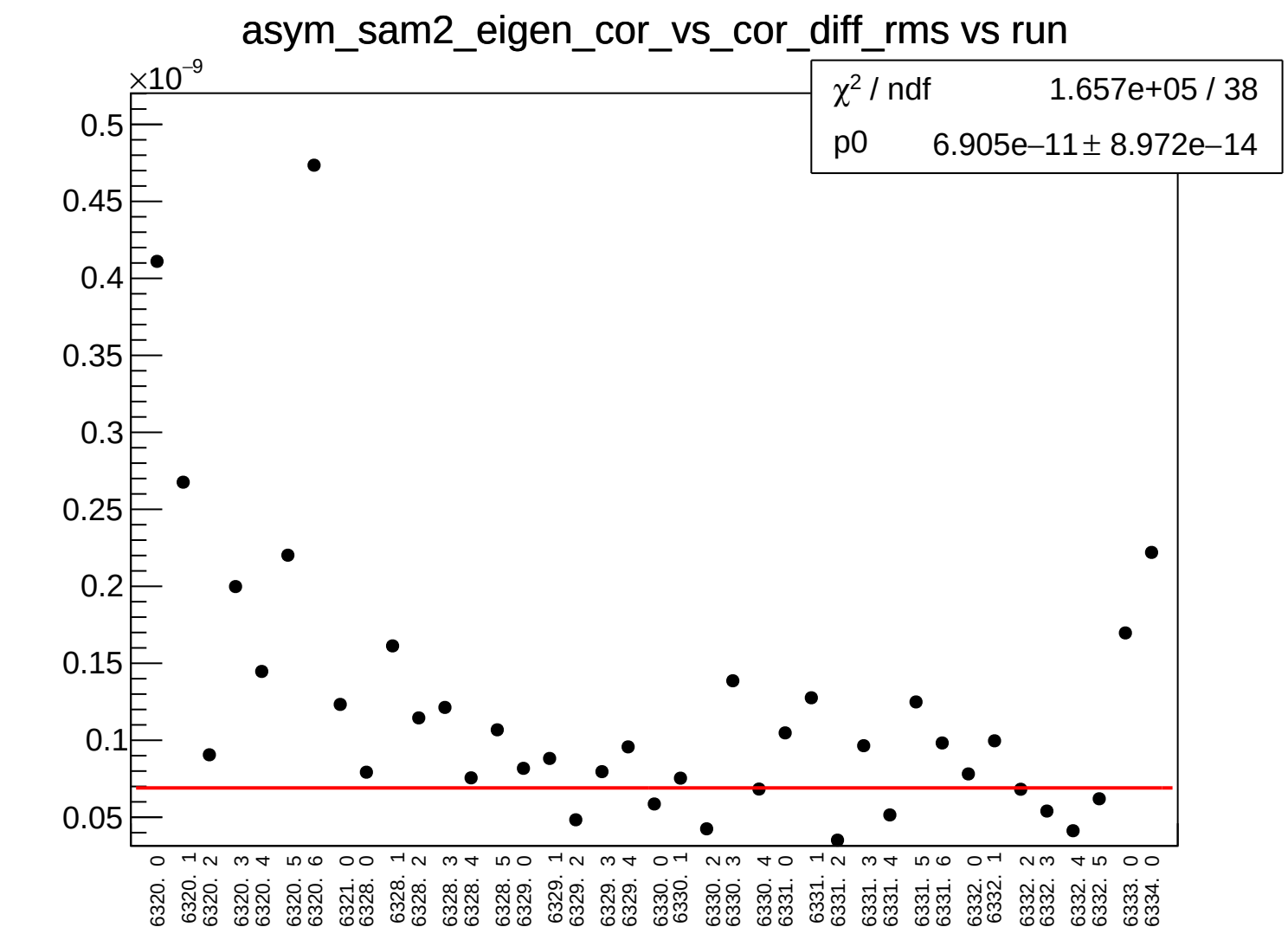

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.374e+04 / 38
p0 150.5 ± 0.1769
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

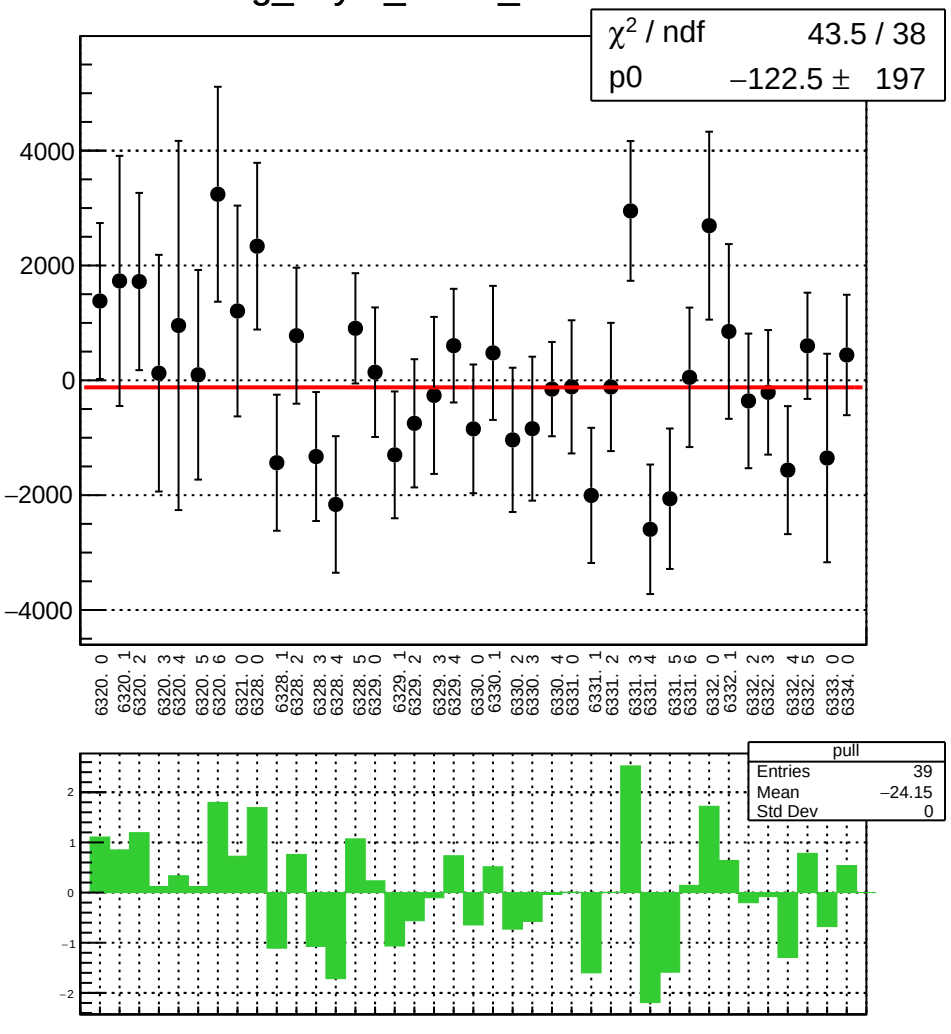

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.1 / 38
p0 −0.04223 ± 0.2501
pull
Entries 39
Mean 540.4
Std Dev 0

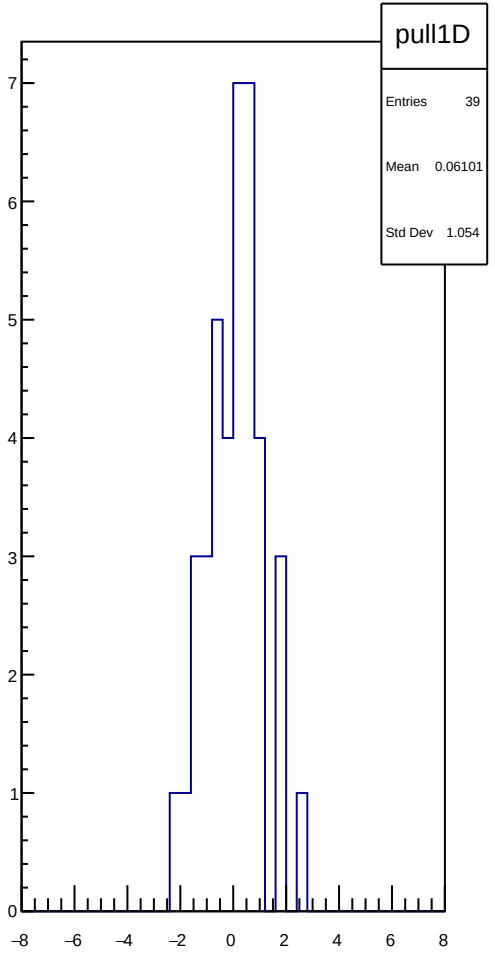

pull1D
Entries 39
Mean −0.003163
Std Dev 0.8785

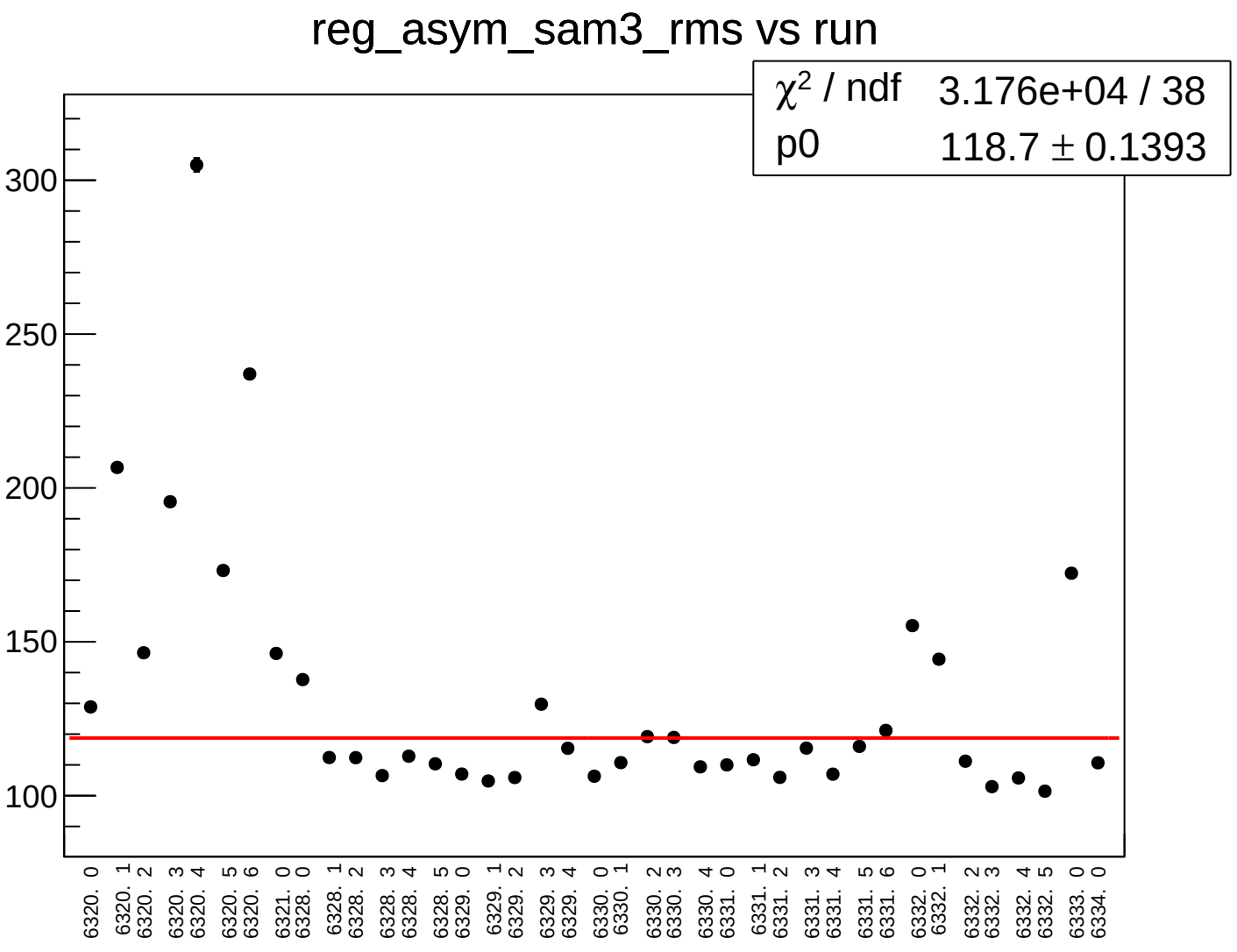

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.374e+04 / 38
p0 150.5 ± 0.1769
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

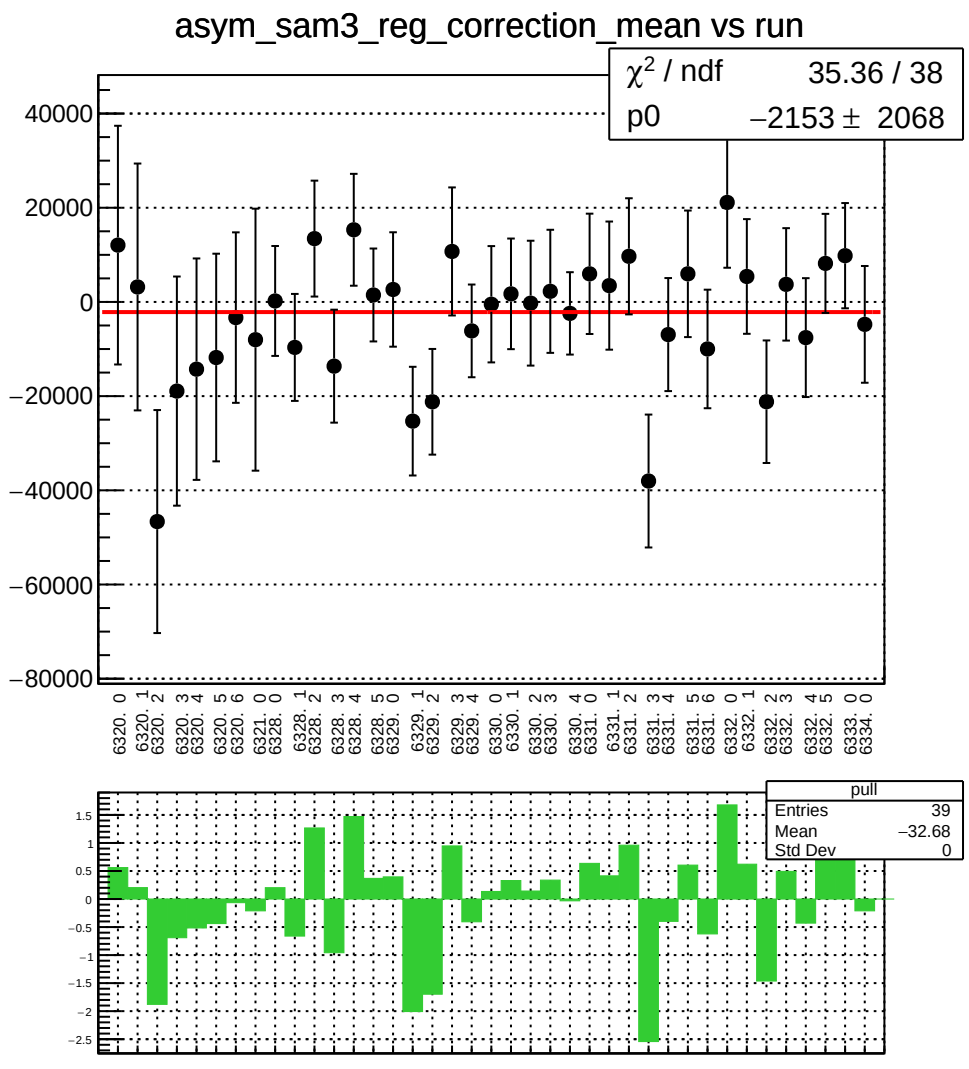

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.51 / 38
p0 5.429e−14 ± 1.269e−13
pull
Entries 39
Mean 20.34
Std Dev 0
pull1D
Entries 39
Mean 0.02615
Std Dev 0.8546

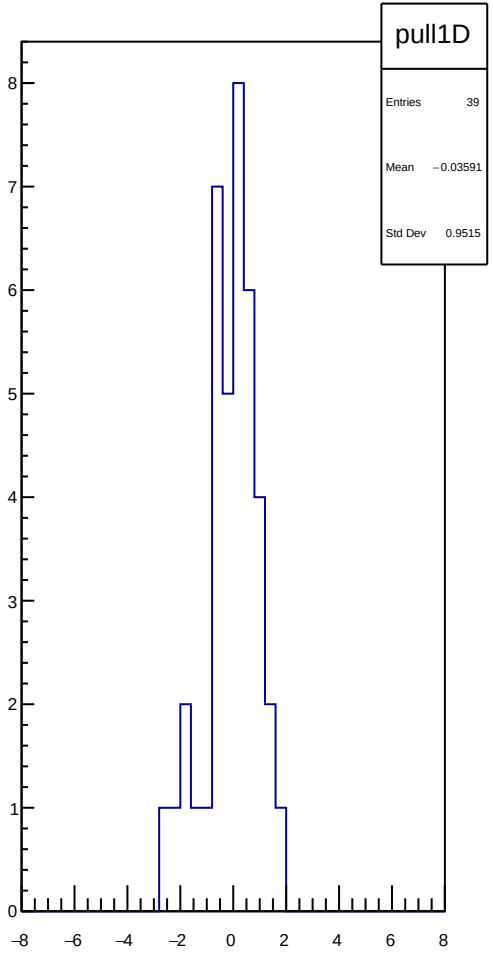

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.657e+05 / 38
p0 6.905e−11 ± 8.972e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

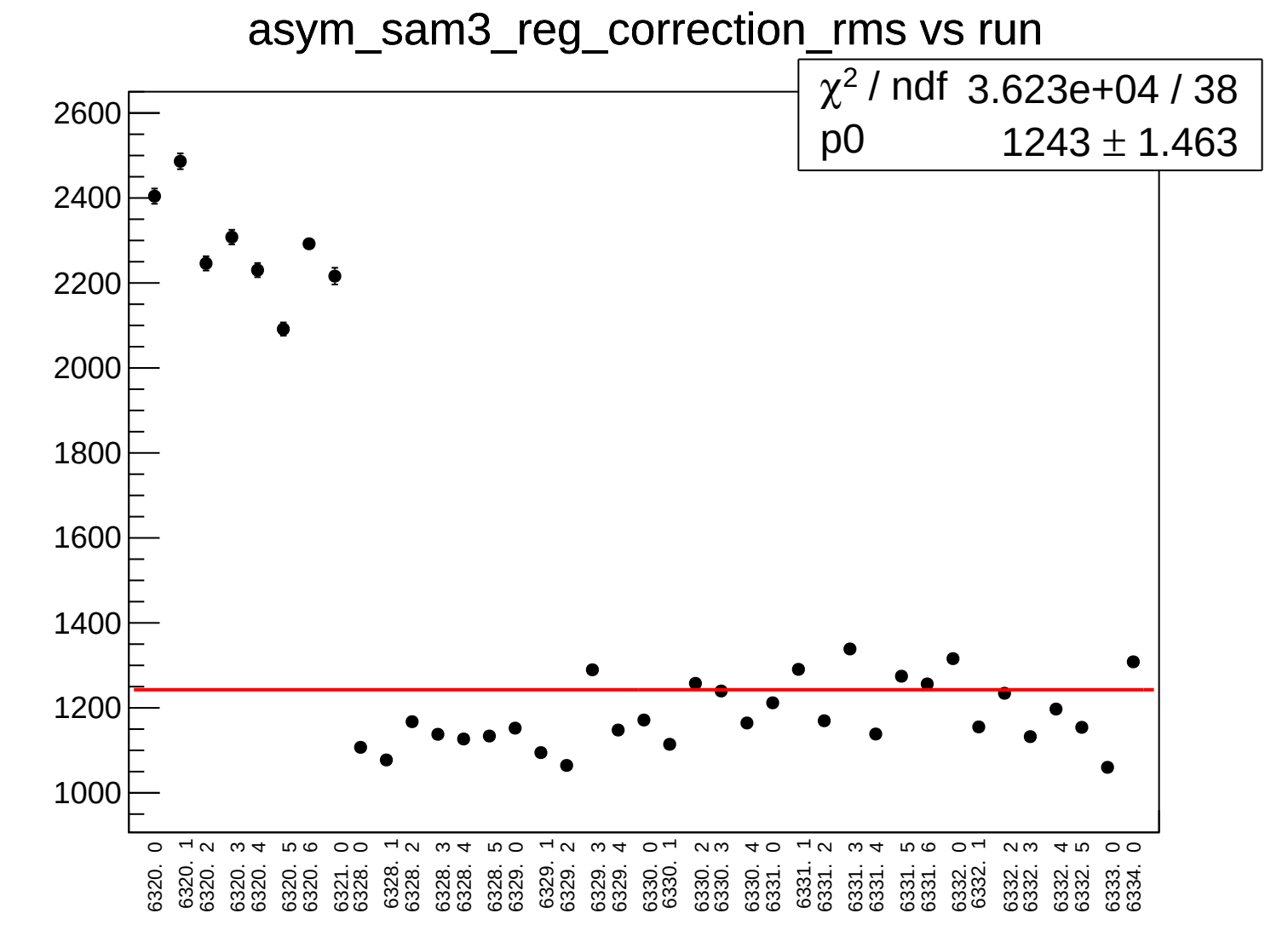

reg_asym_sam3_mean vs run
χ² / ndf 43.5 / 38
p0 −122.5 ± 197
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.15
Std Dev 0
2
1
0
−1
−2

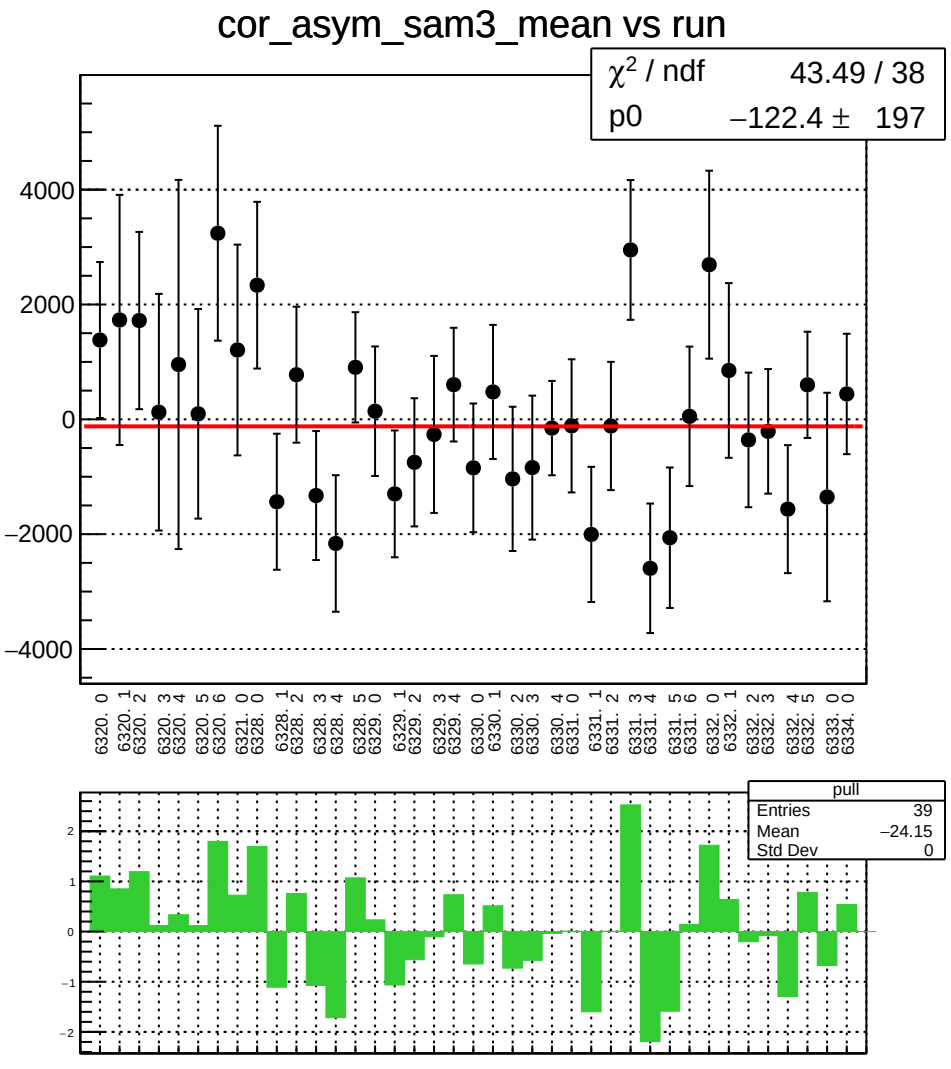

pull1D
Entries 39
Mean 0.06101
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

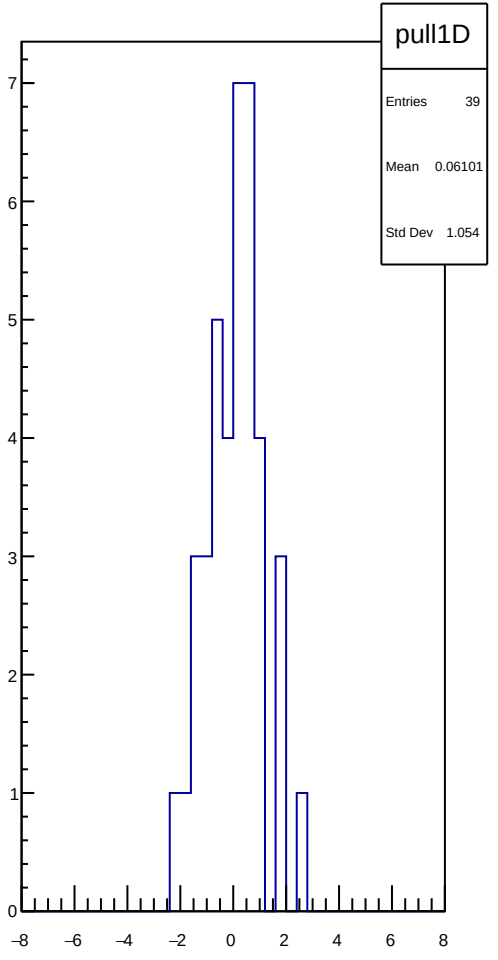

reg_asym_sam3_rms vs run
χ² / ndf 3.176e+04 / 38
p0 118.7 ± 0.1393
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

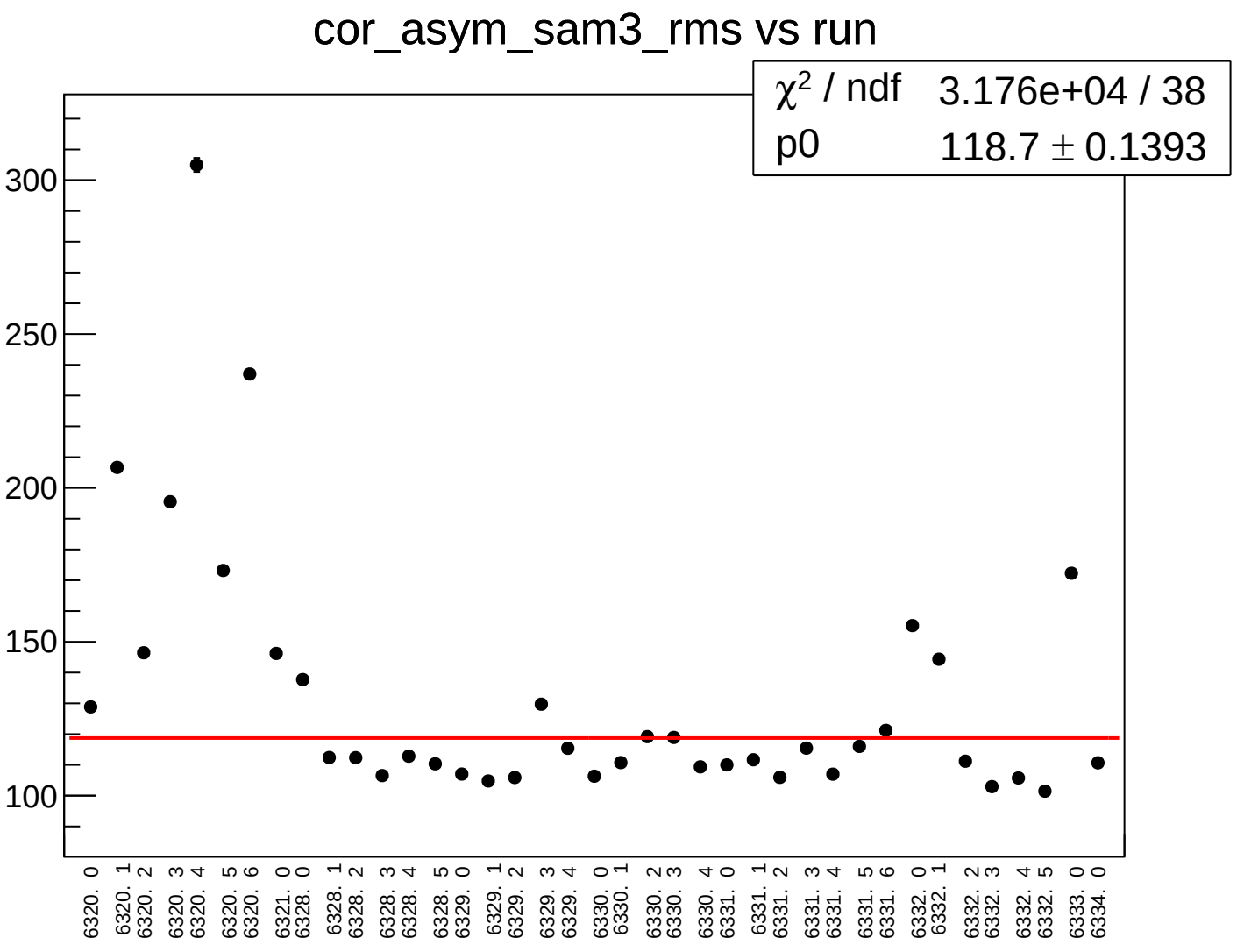

asym_sam3_reg_correction_mean vs run
χ² / ndf 35.36 / 38
p0 −2153 ± 2068
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

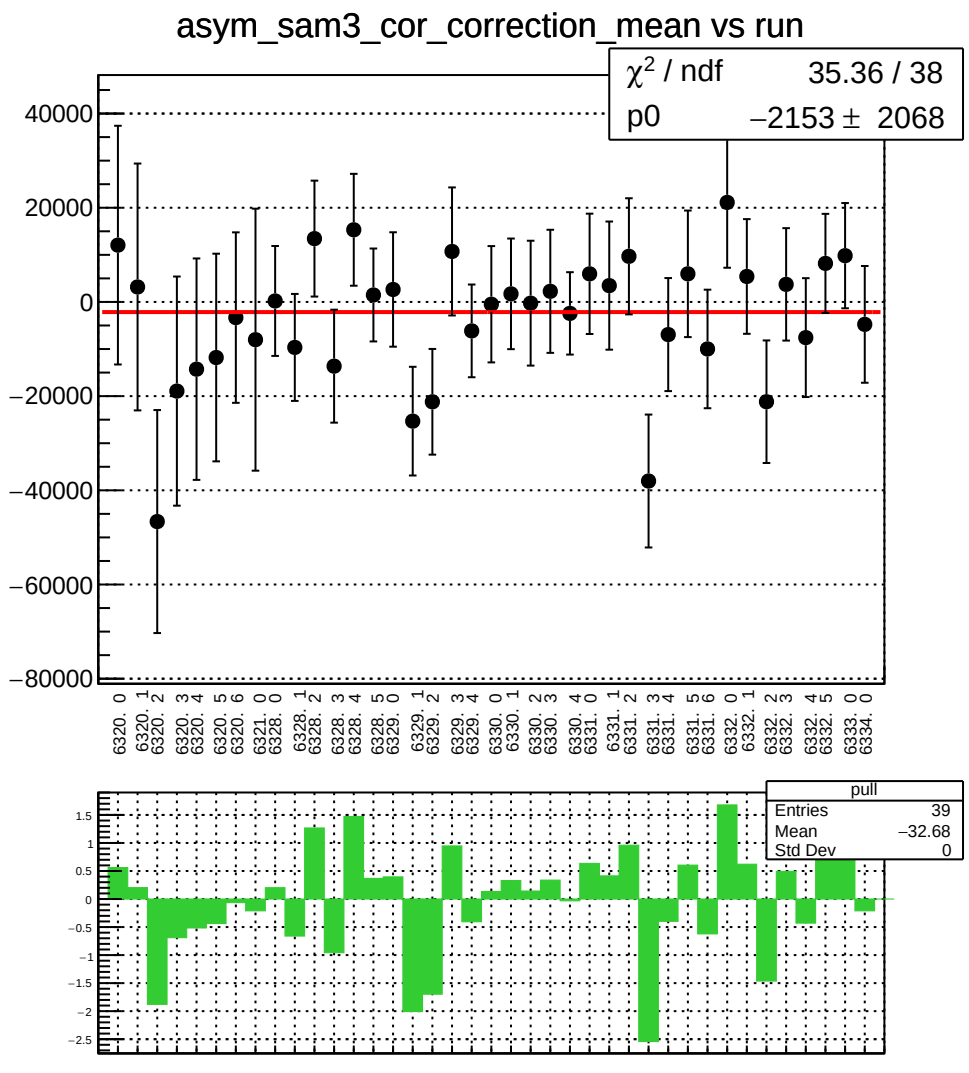

pull1D
Entries 39
Mean −0.03591
Std Dev 0.9515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

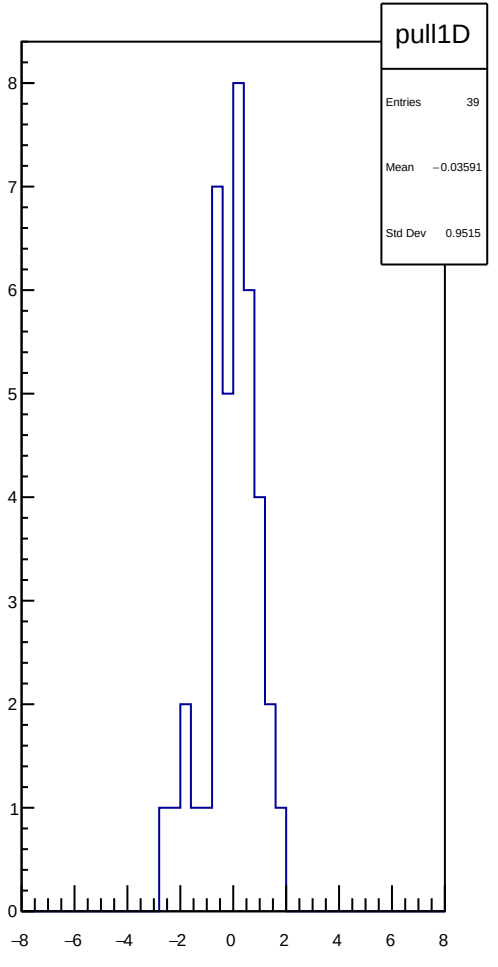

asym_sam3_reg_correction_rms vs run
χ² / ndf 3.623e+04 / 38
p0 1243 ± 1.463
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

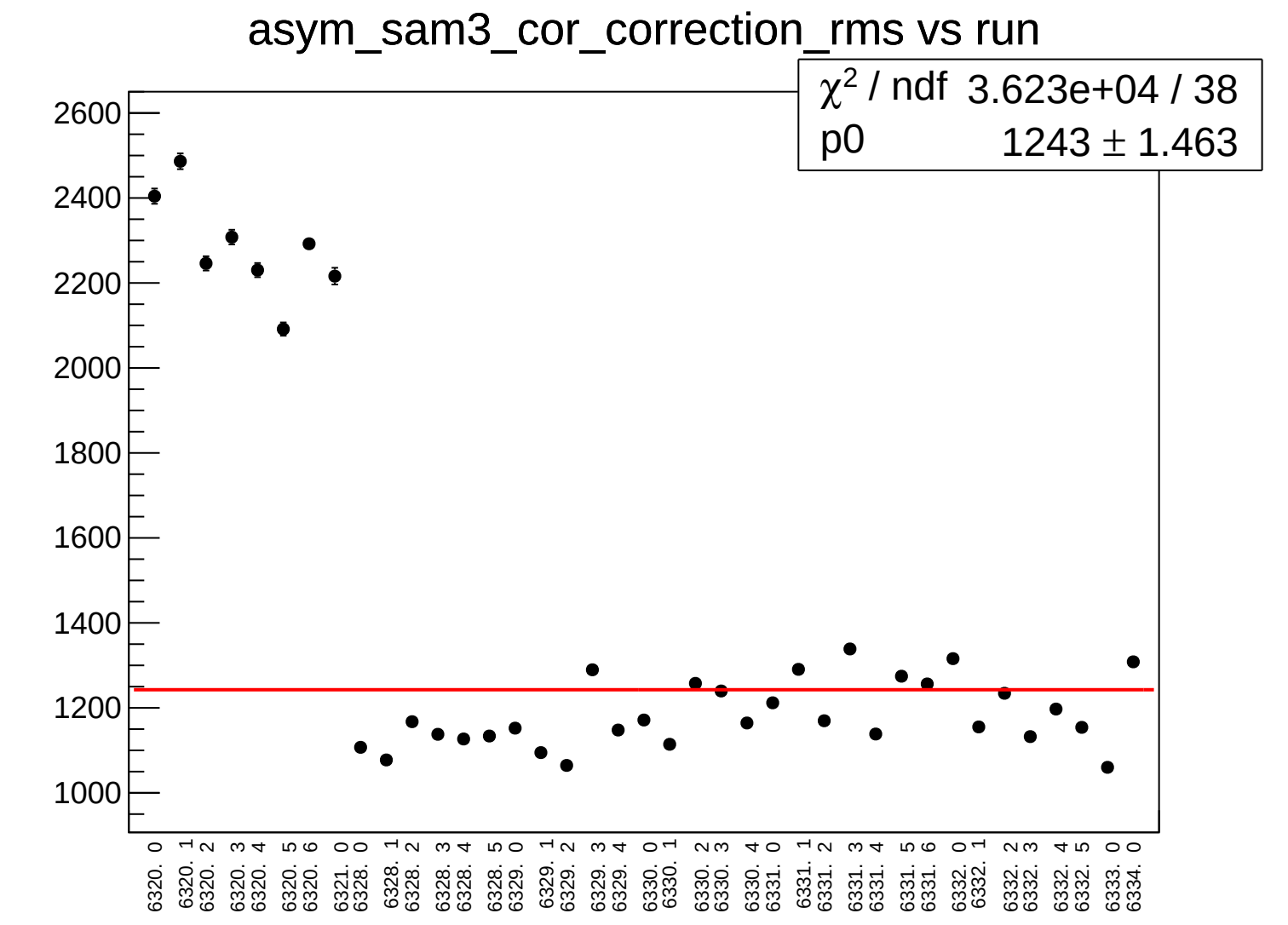

cor_asym_sam3_mean vs run
χ² / ndf 43.49 / 38
p0 −122.4 ± 197
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.15
Std Dev 0
2
1
0
−1
−2

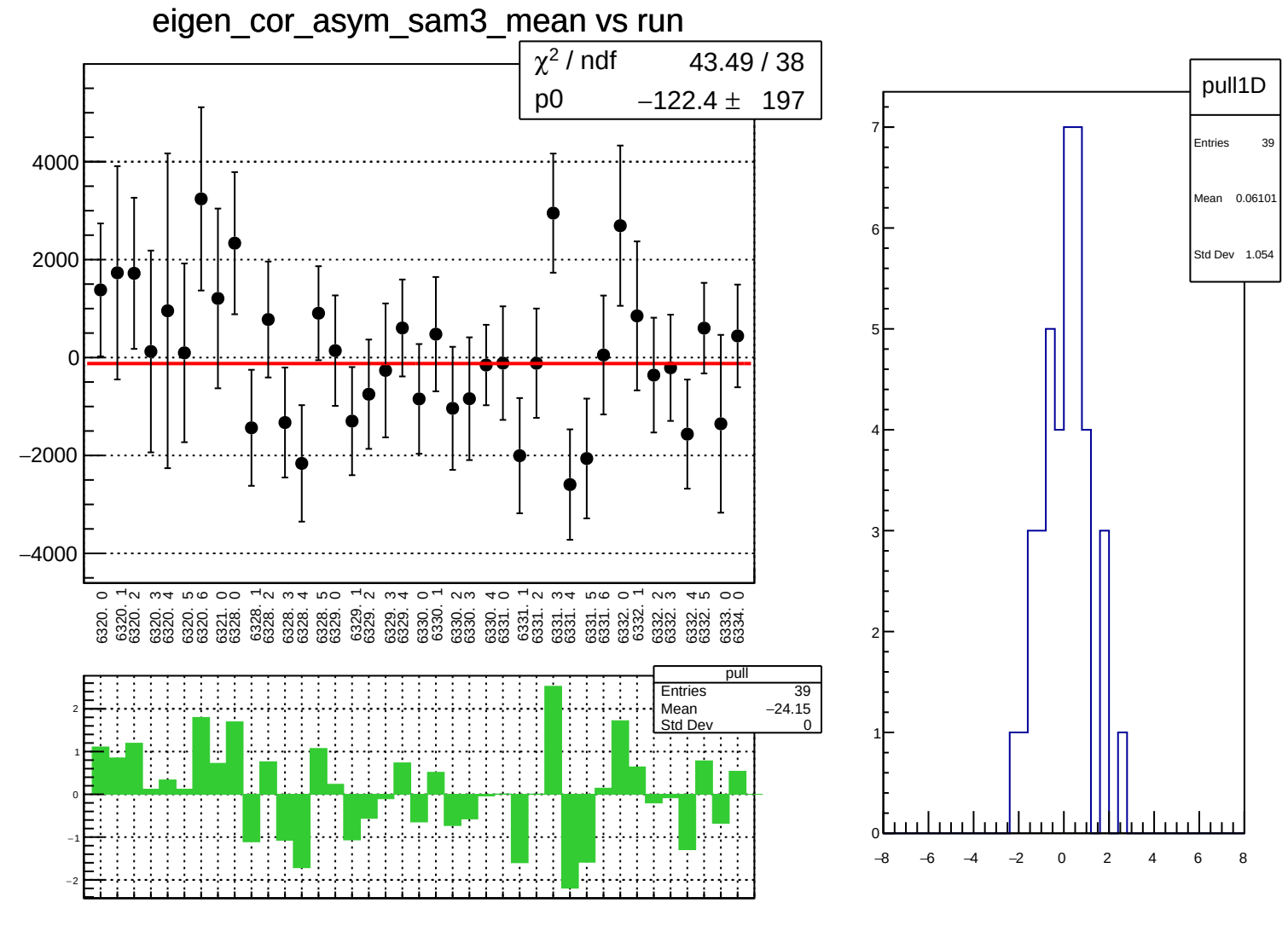

pull1D
Entries 39
Mean 0.06101
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

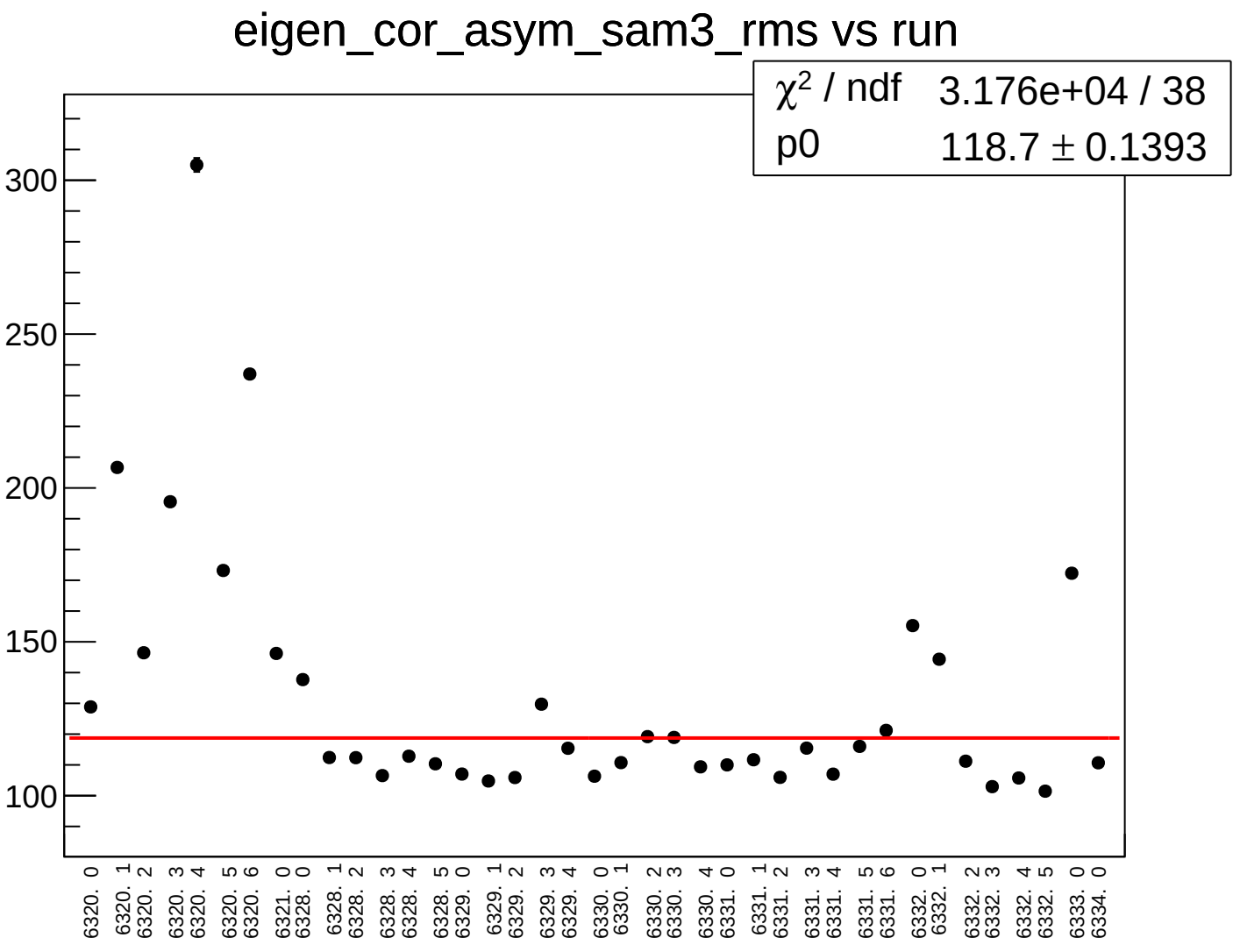

cor_asym_sam3_rms vs run
χ² / ndf 3.176e+04 / 38
p0 118.7 ± 0.1393
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

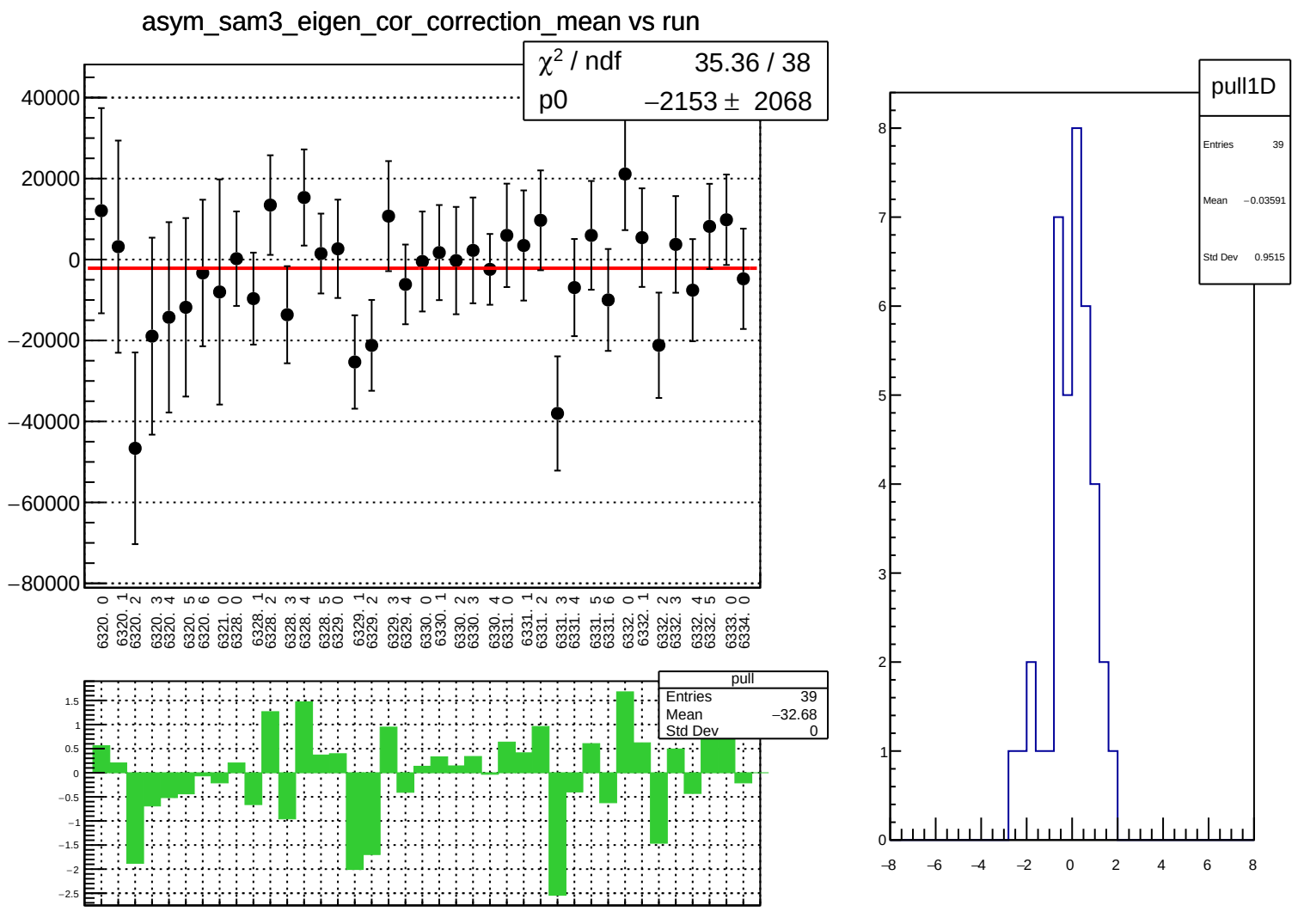

asym_sam3_cor_correction_mean vs run
χ² / ndf 35.36 / 38
p0 −2153 ± 2068
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

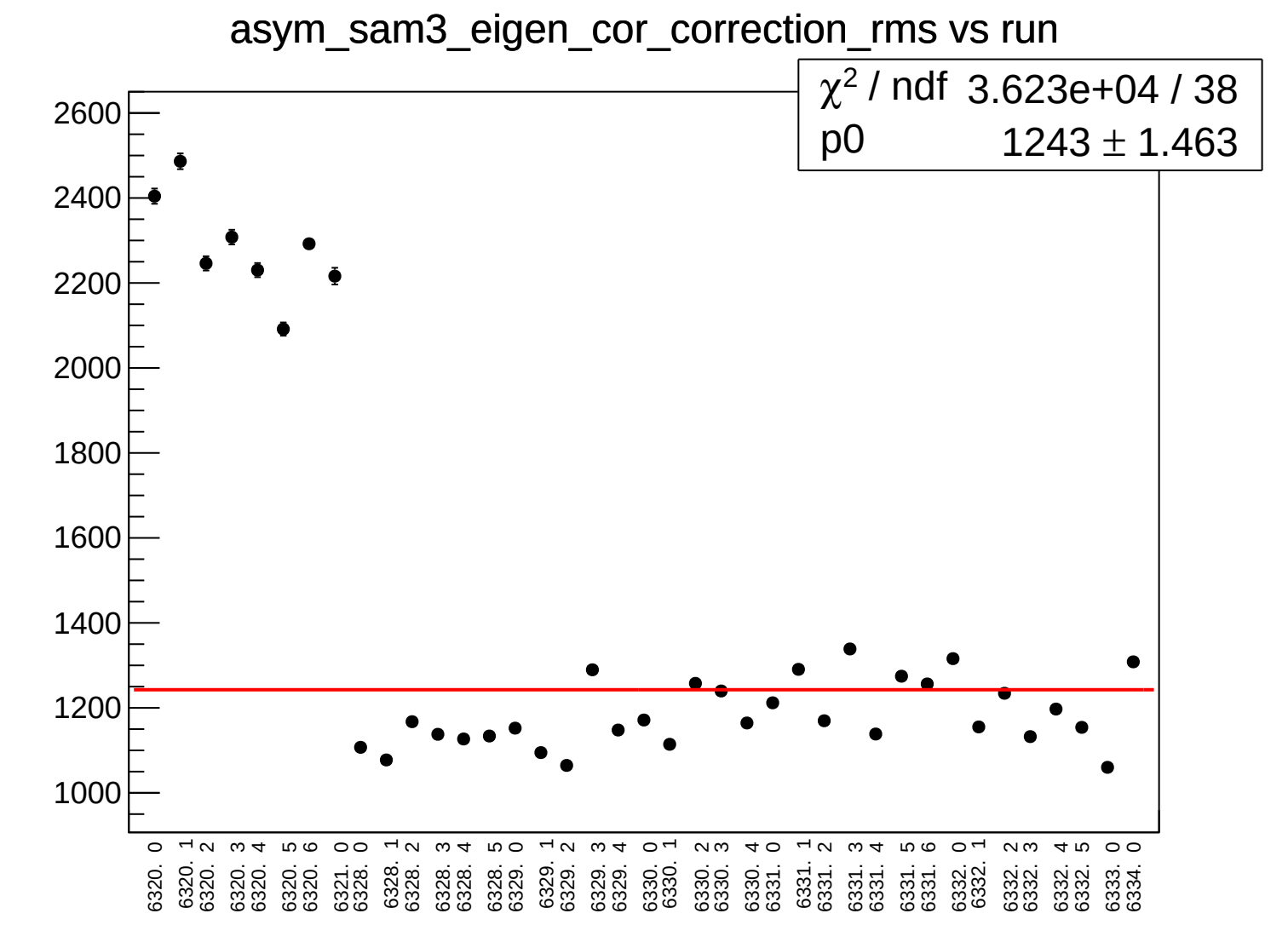

pull1D
Entries 39
Mean −0.03591
Std Dev 0.9515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

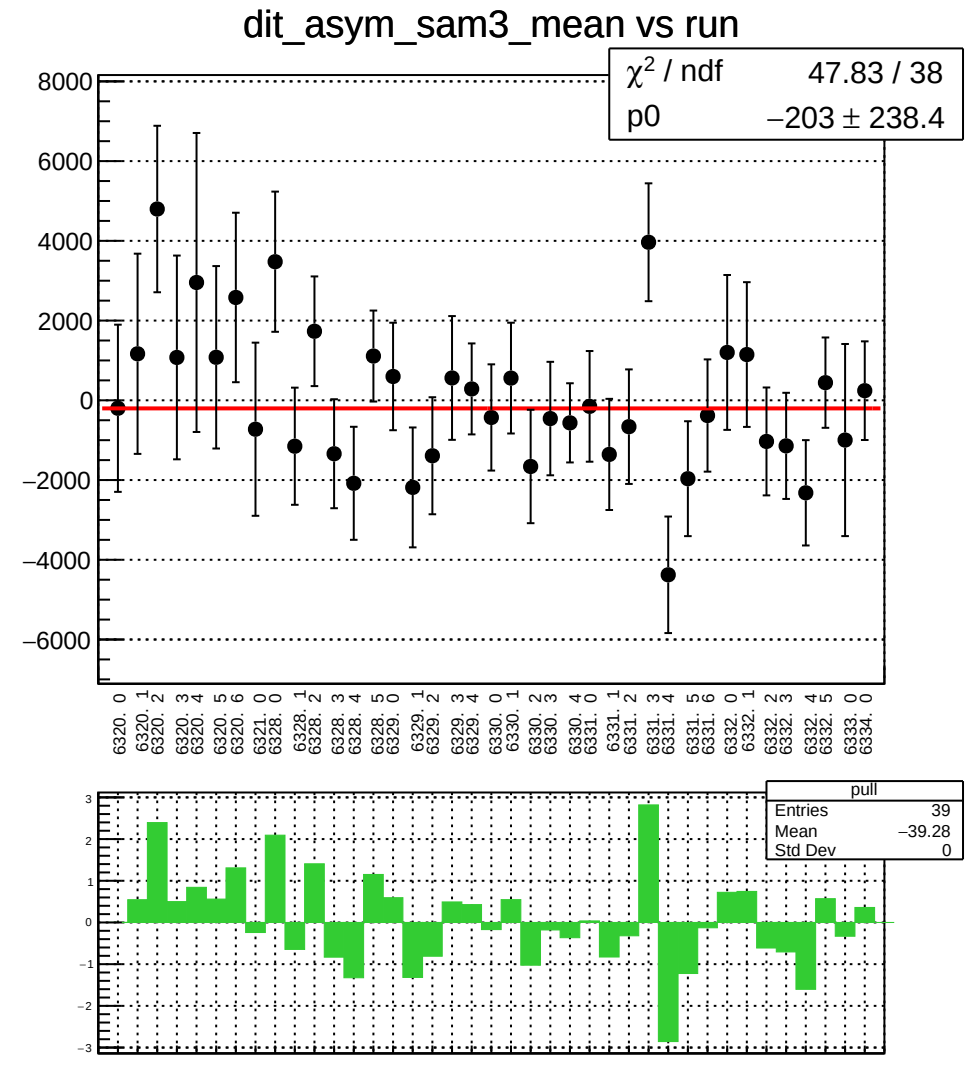

asym_sam3_cor_correction_rms vs run
χ² / ndf 3.623e+04 / 38
p0 1243 ± 1.463
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

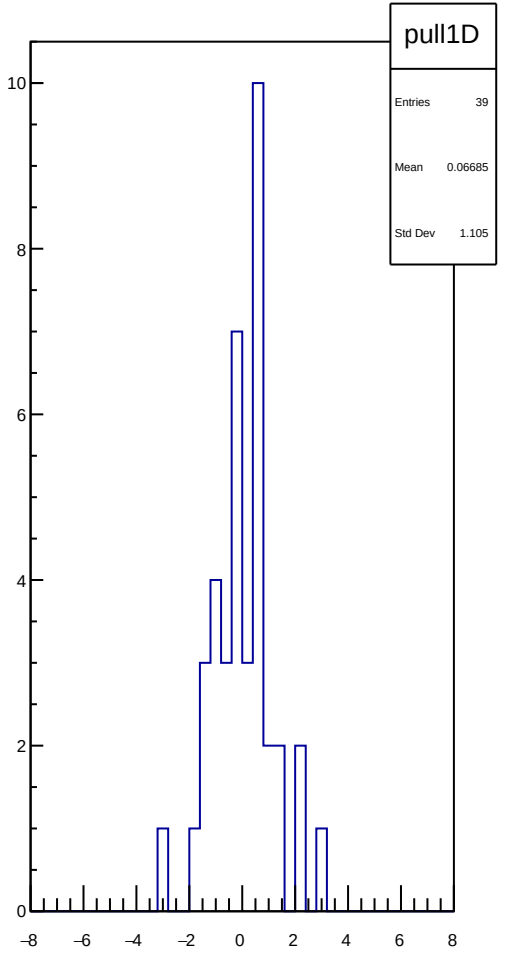

eigen_cor_asym_sam3_mean vs run
χ² / ndf 43.49 / 38
p0 −122.4 ± 197
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.06101
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

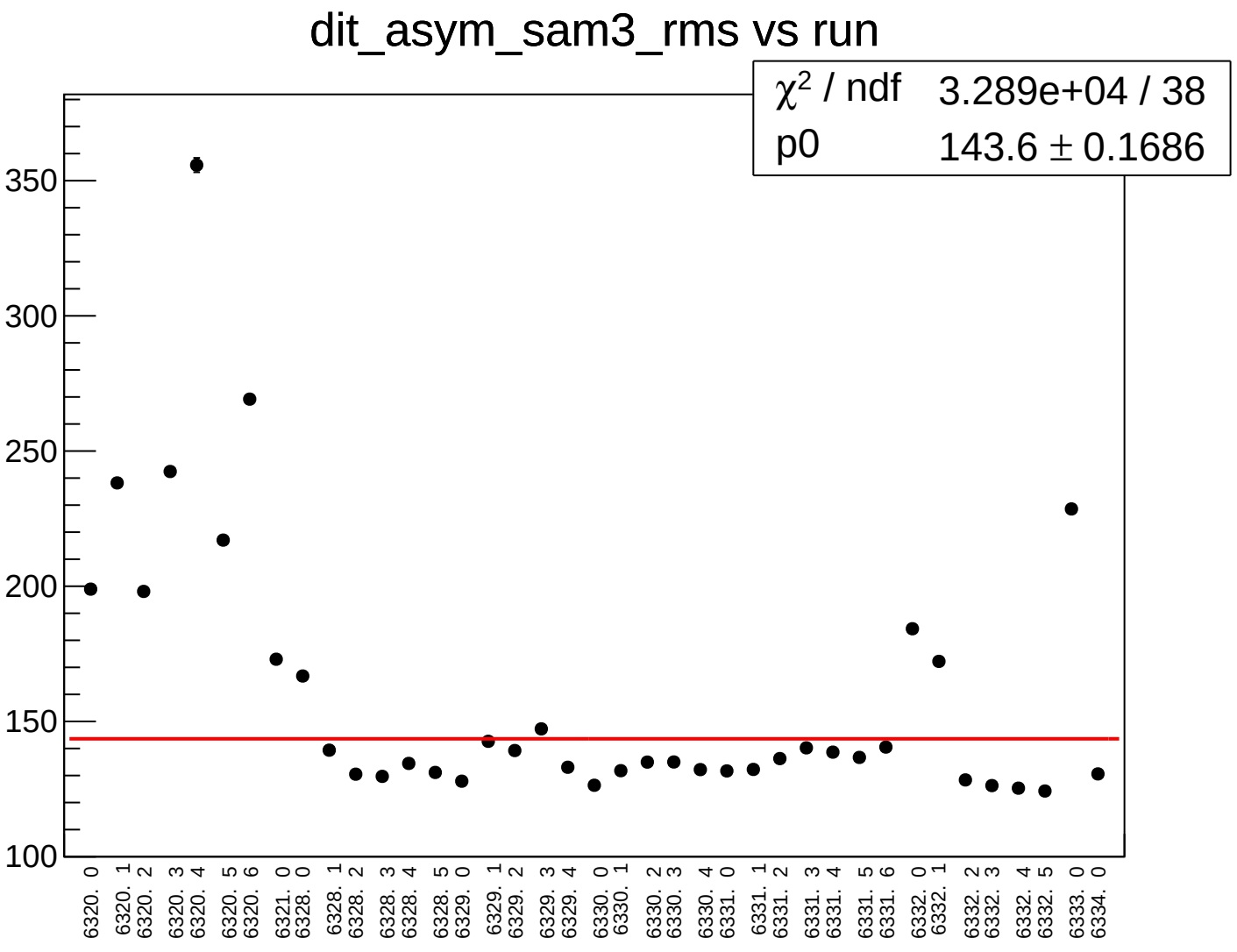

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.176e+04 / 38
p0 118.7 ± 0.1393
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

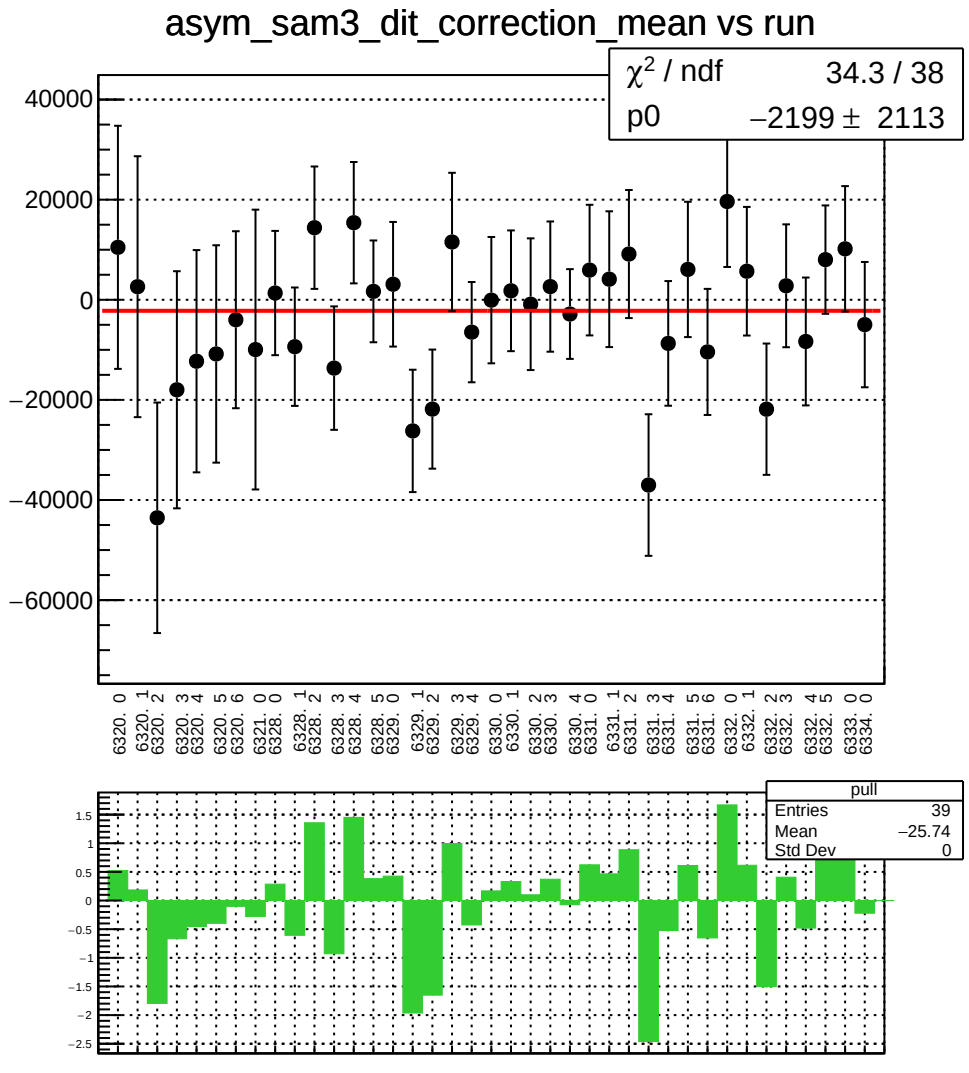

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 35.36 / 38
p0 −2153 ± 2068
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03591
Std Dev 0.9515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

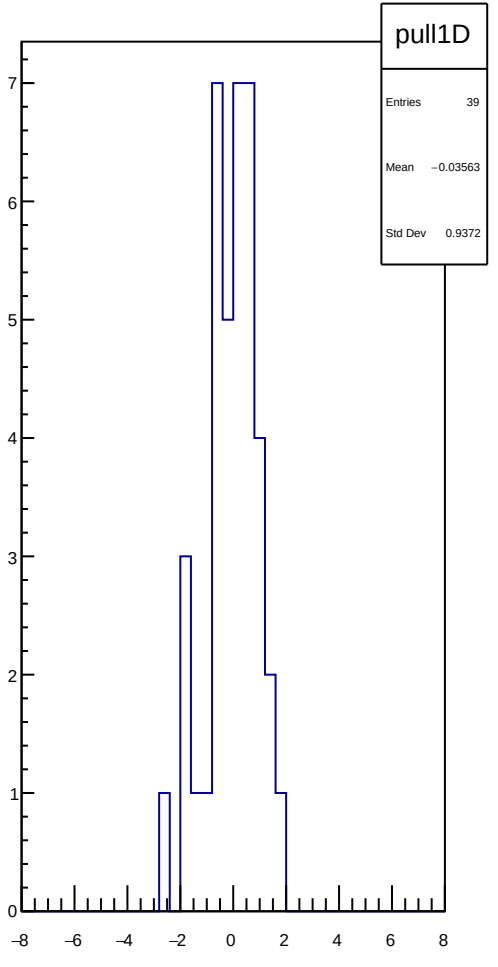

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 3.623e+04 / 38
p0 1243 ± 1.463
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

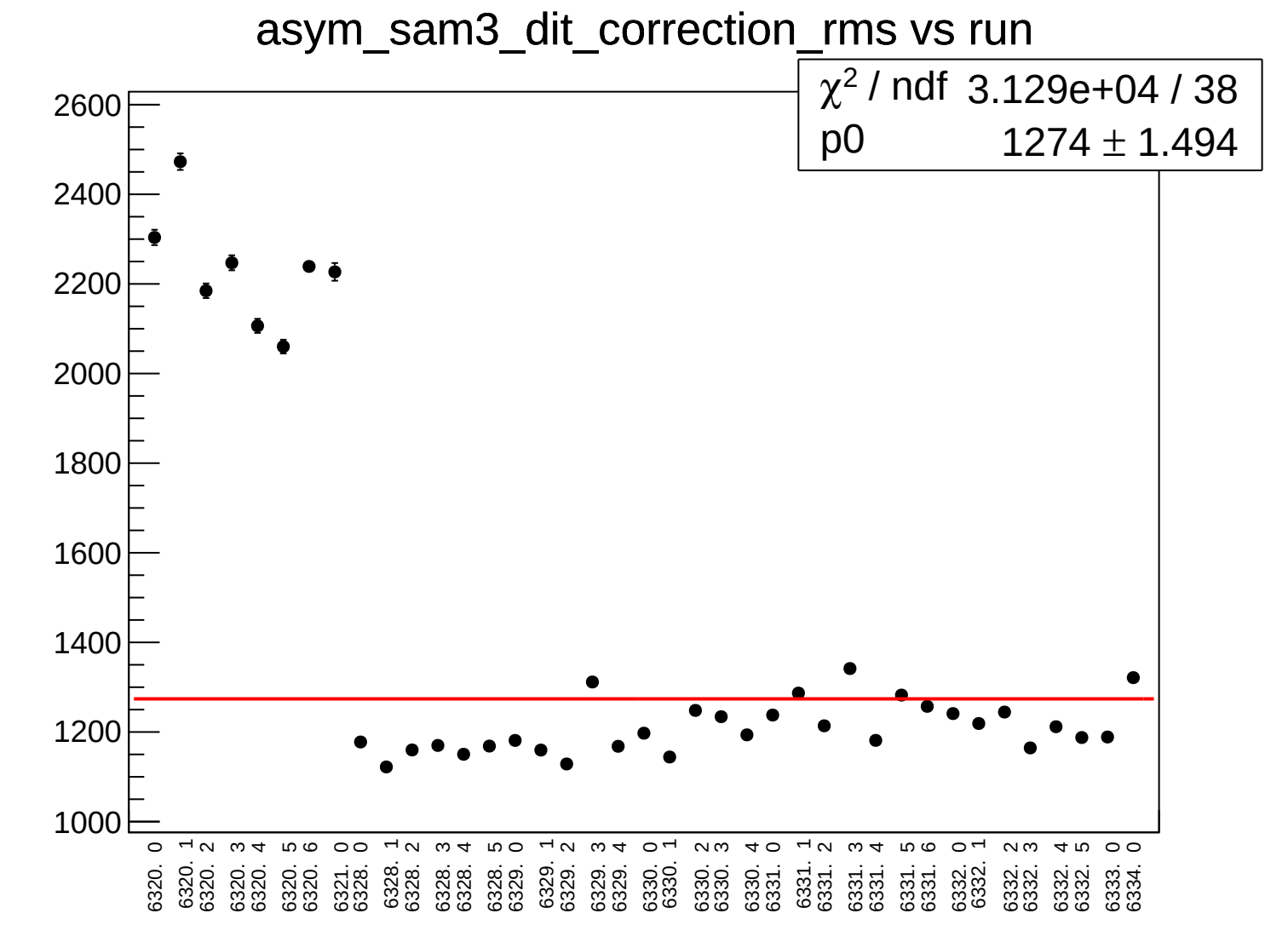

dit_asym_sam3_mean vs run
χ² / ndf 47.83 / 38
p0 −203 ± 238.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.28
Std Dev 0
3
2
1
0
−1
−2
−3

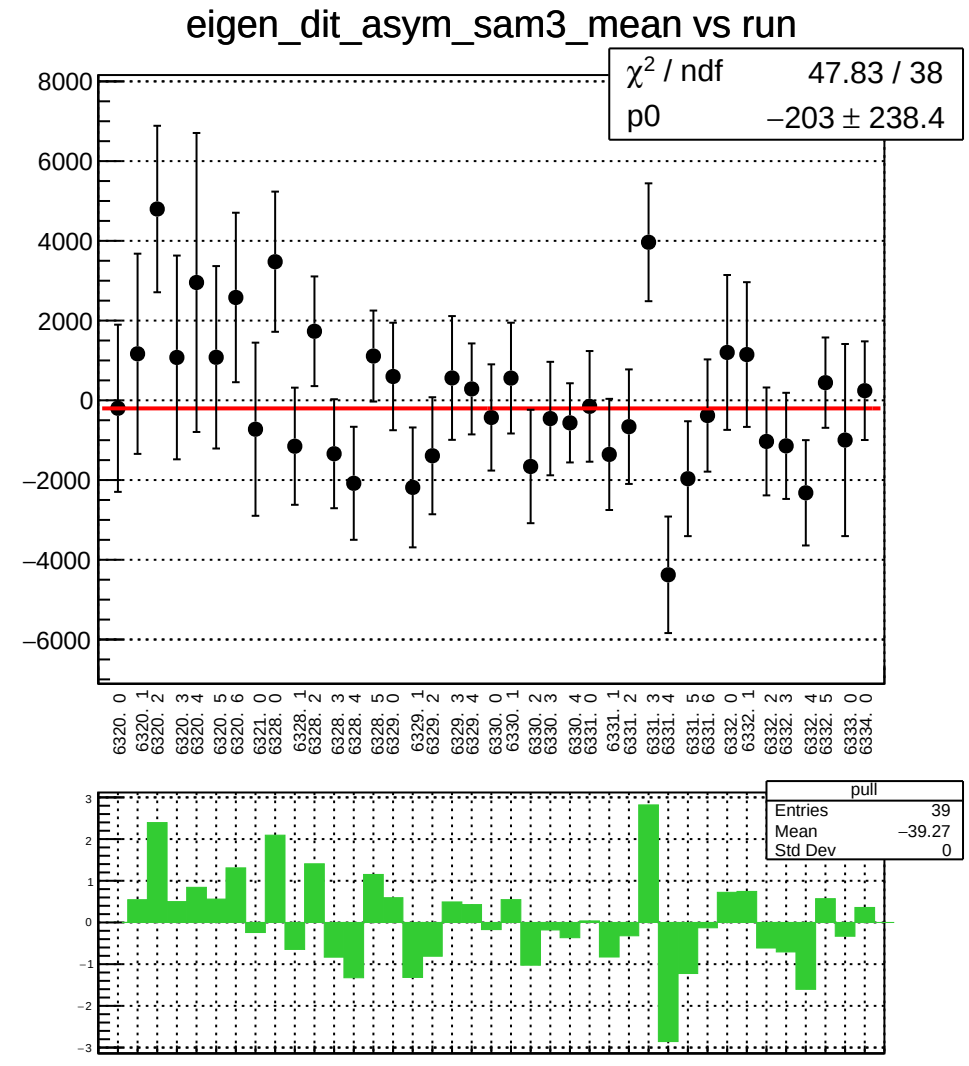

pull1D
Entries 39
Mean 0.06685
Std Dev 1.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

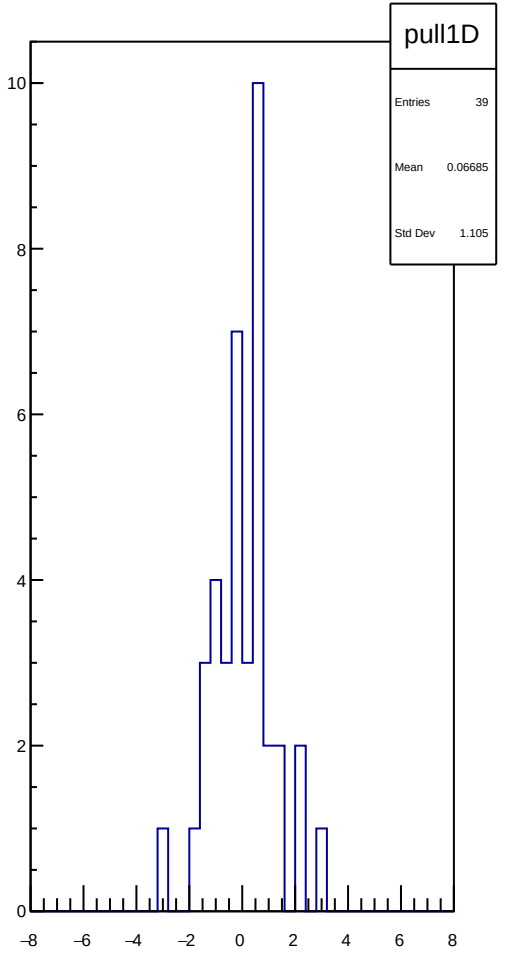

dit_asym_sam3_rms vs run
χ² / ndf 3.289e+04 / 38
p0 143.6 ± 0.1686
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

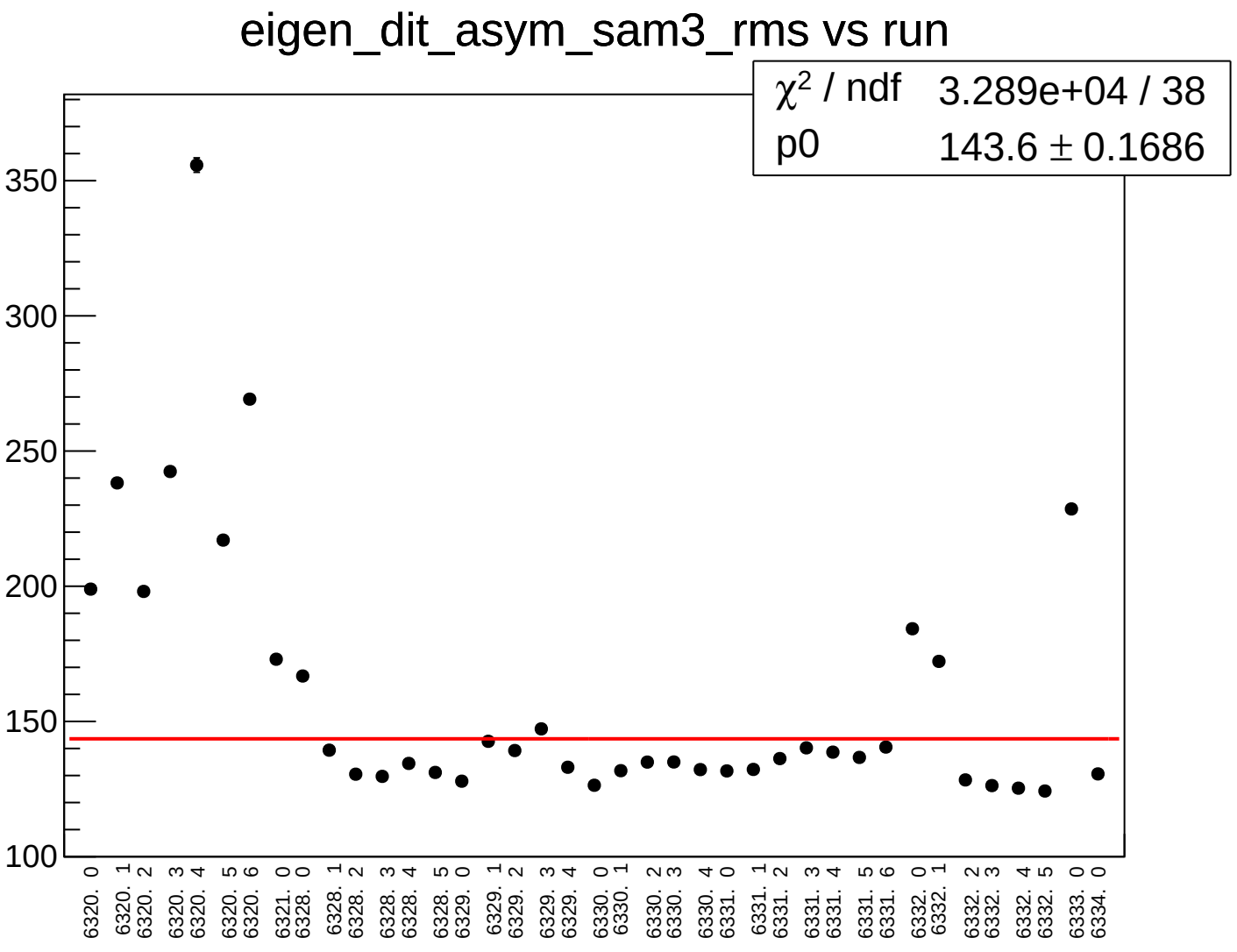

asym_sam3_dit_correction_mean vs run
χ² / ndf 34.3 / 38
p0 −2199 ± 2113
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

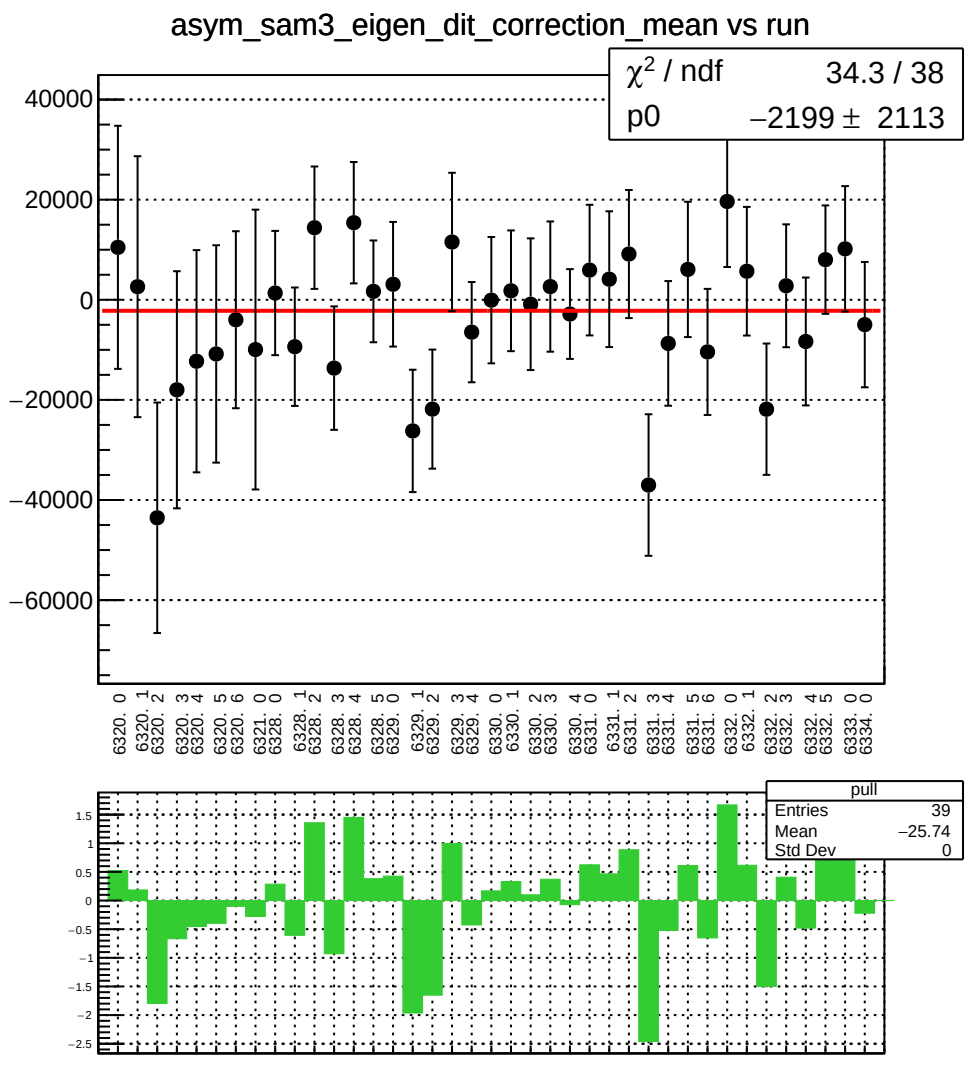

pull1D
Entries 39
Mean −0.03563
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

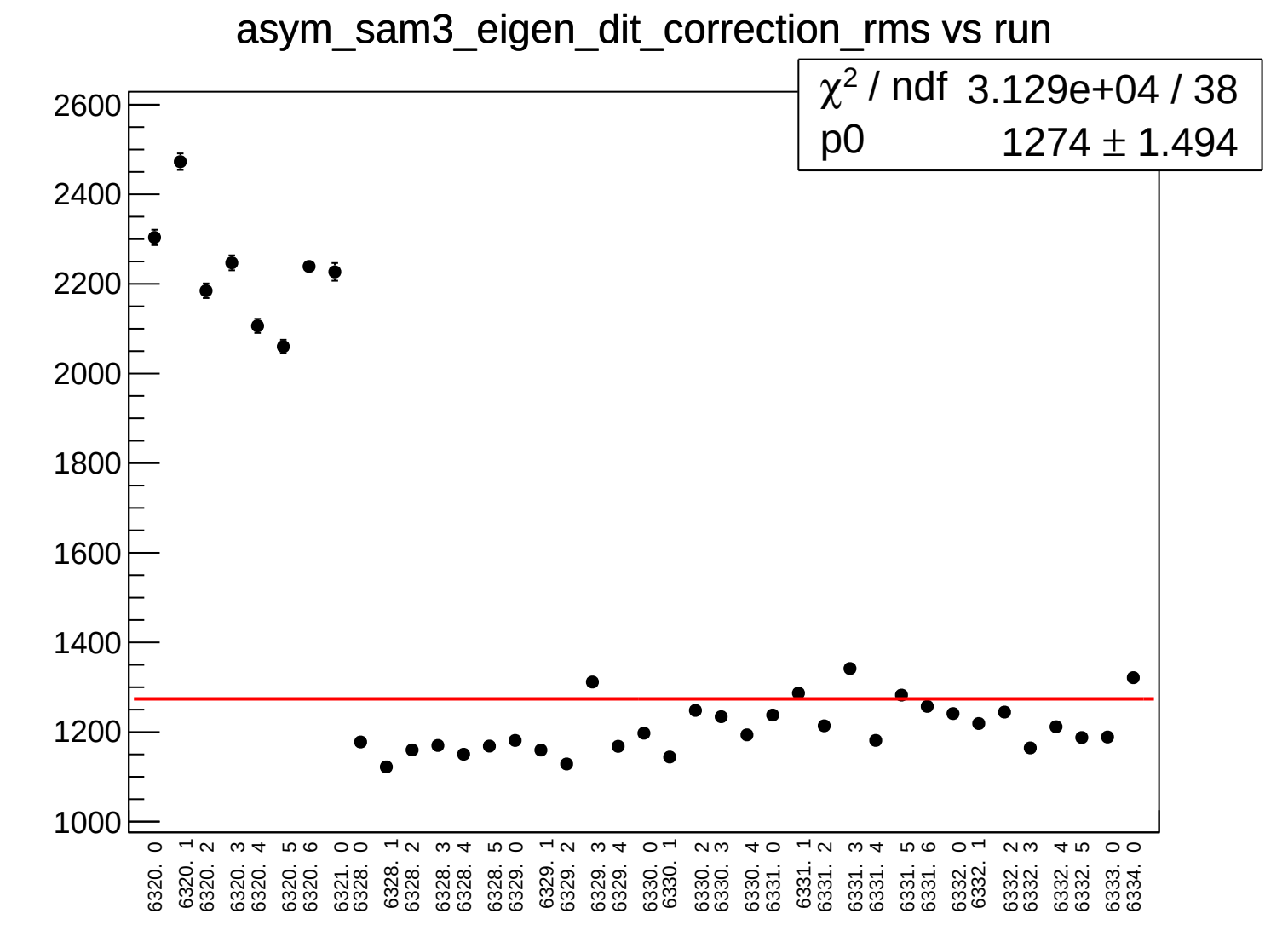

asym_sam3_dit_correction_rms vs run
χ² / ndf 3.129e+04 / 38
p0 1274 ± 1.494
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

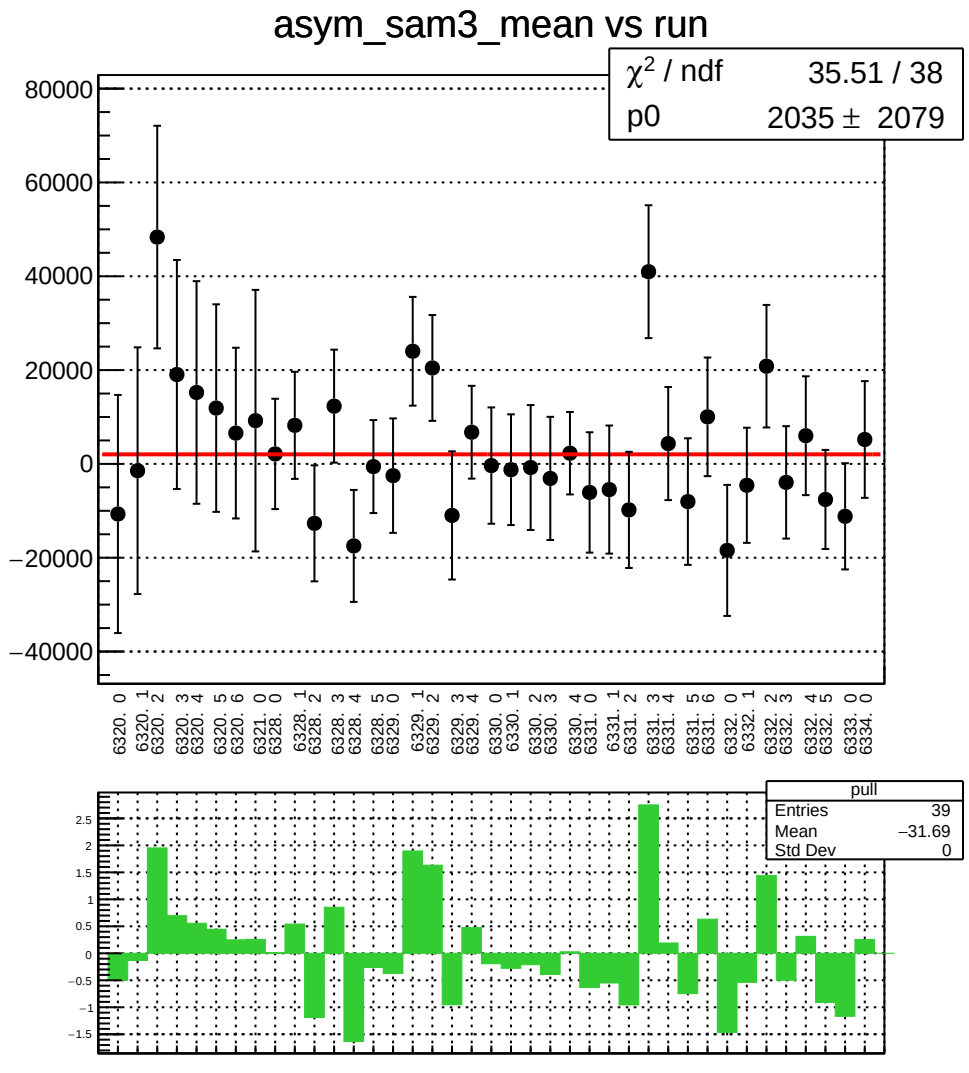

eigen_dit_asym_sam3_mean vs run
χ² / ndf 47.83 / 38
p0 −203 ± 238.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.27
Std Dev 0
3
2
1
0
−1
−2
−3

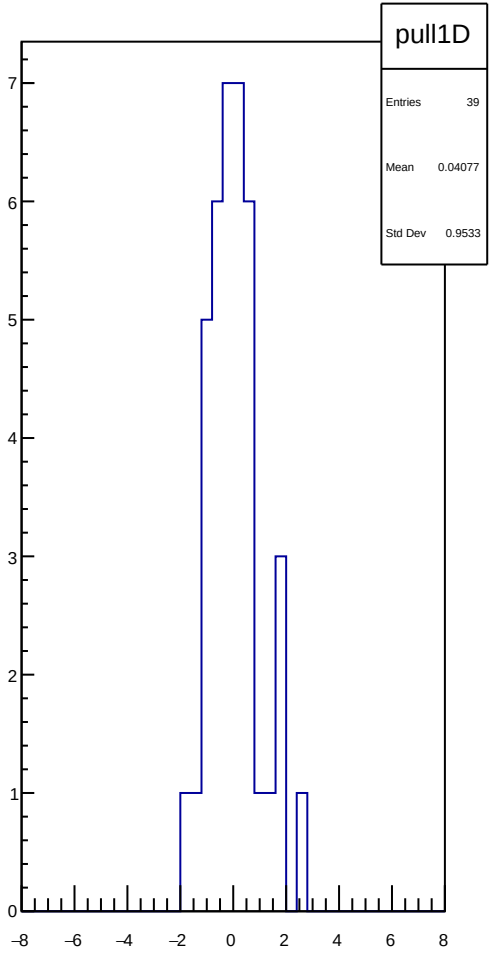

pull1D
Entries 39
Mean 0.06685
Std Dev 1.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

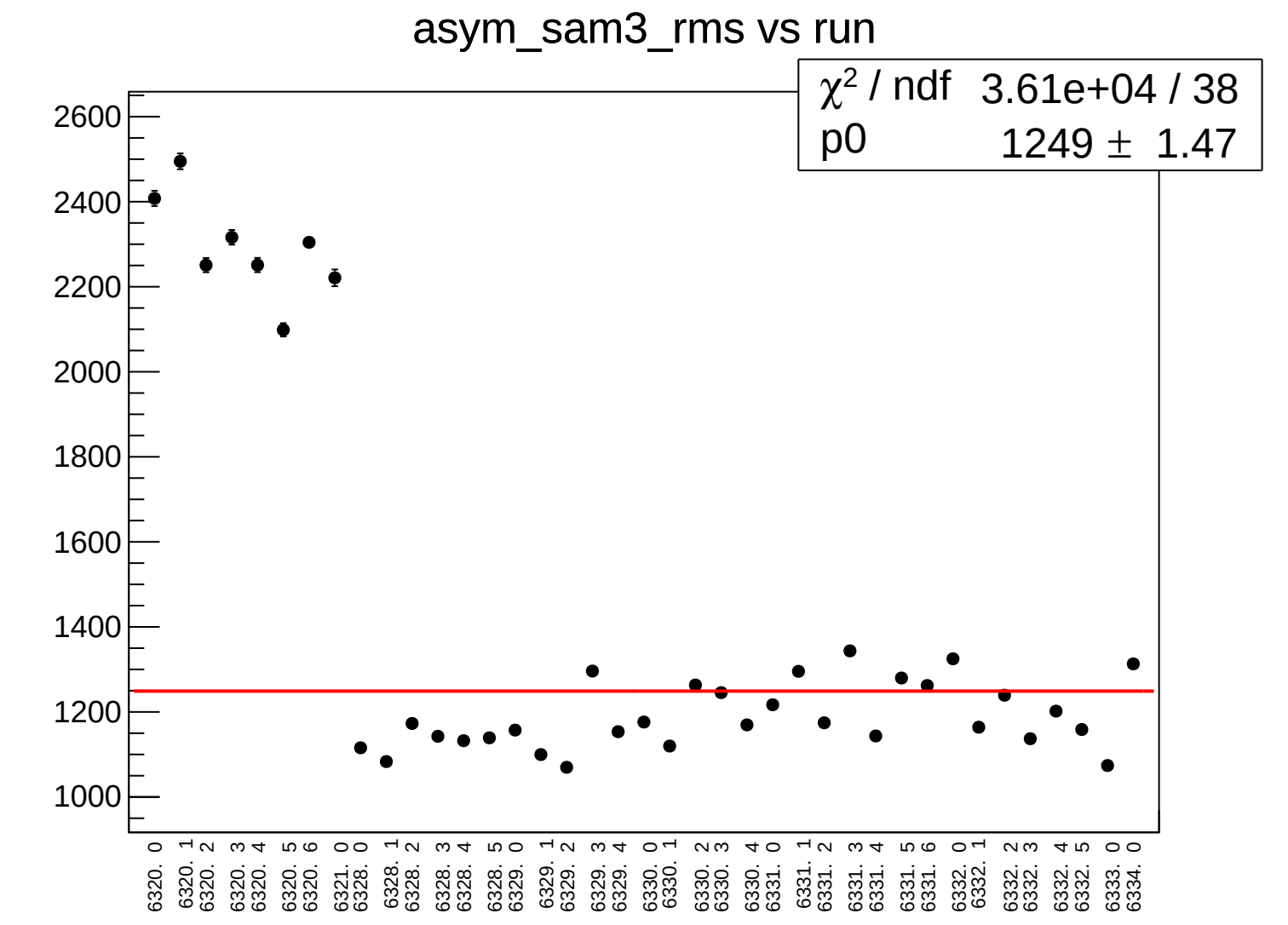

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.289e+04 / 38
p0 143.6 ± 0.1686
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

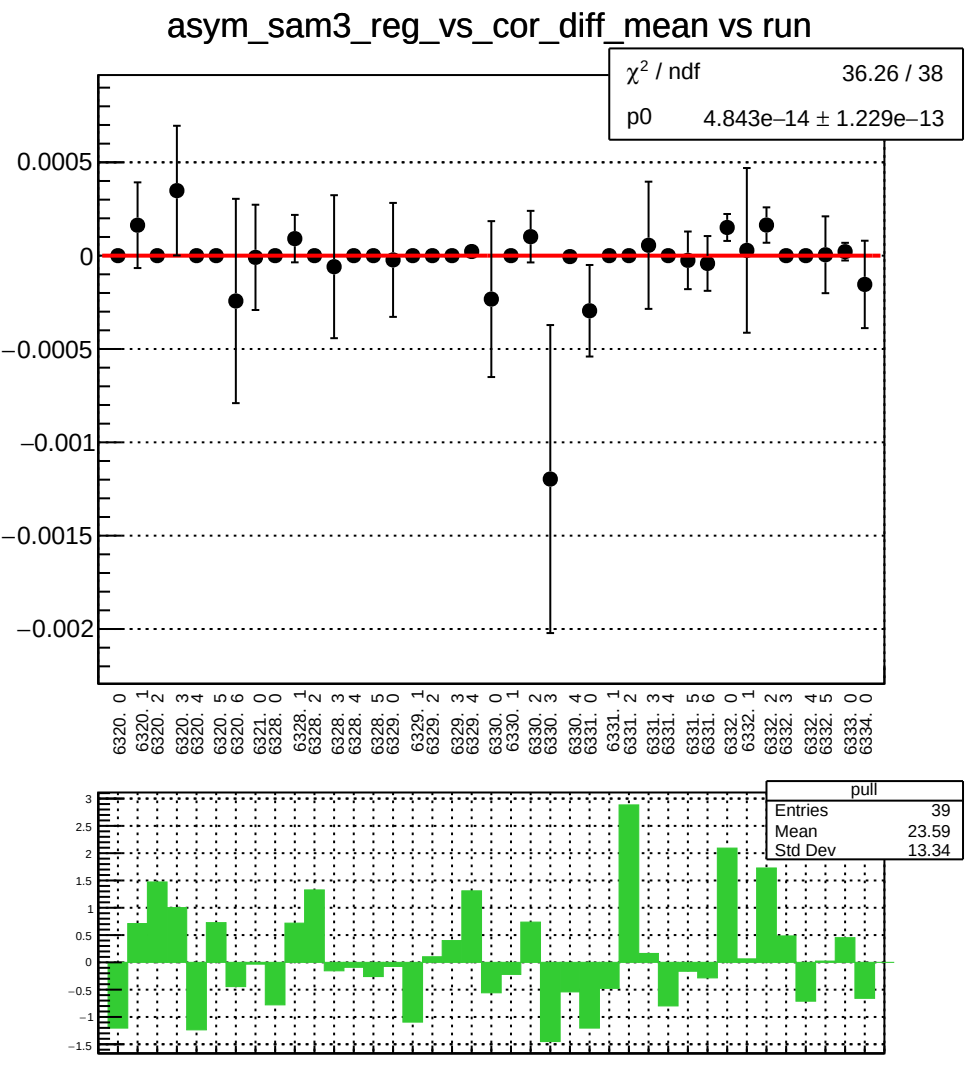

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 34.3 / 38
p0 −2199 ± 2113
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03563
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

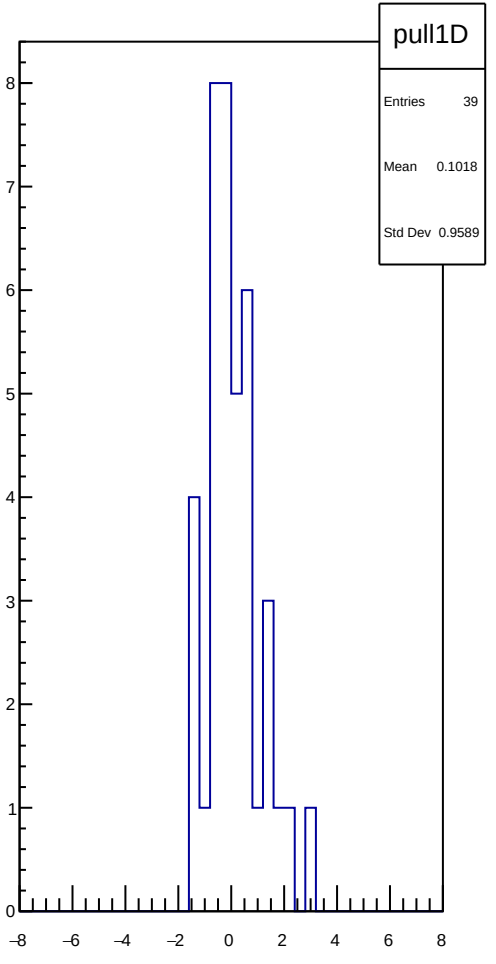

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3.129e+04 / 38
p0 1274 ± 1.494
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

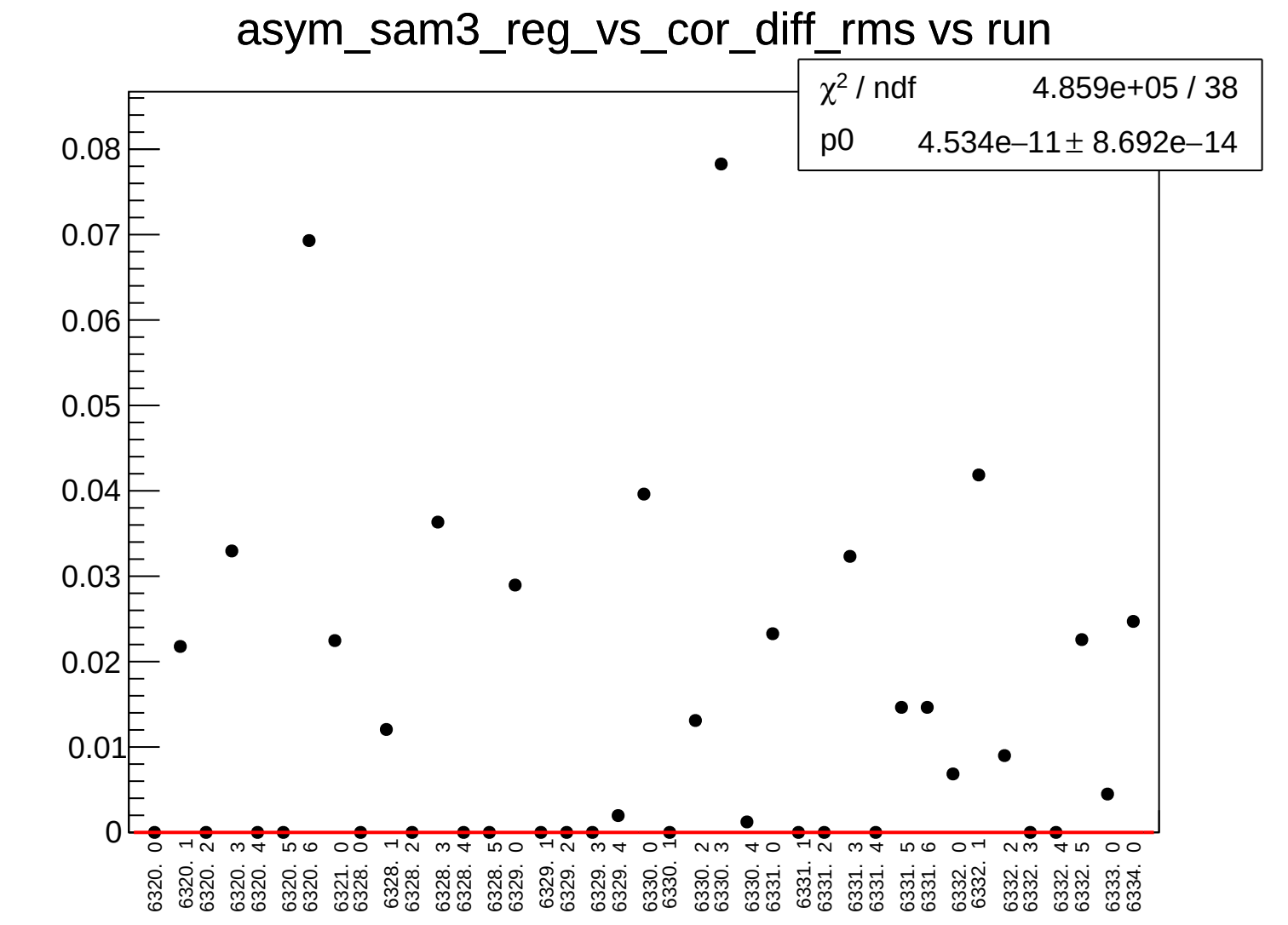

asym_sam3_mean vs run
χ² / ndf 35.51 / 38
p0 2035 ± 2079
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

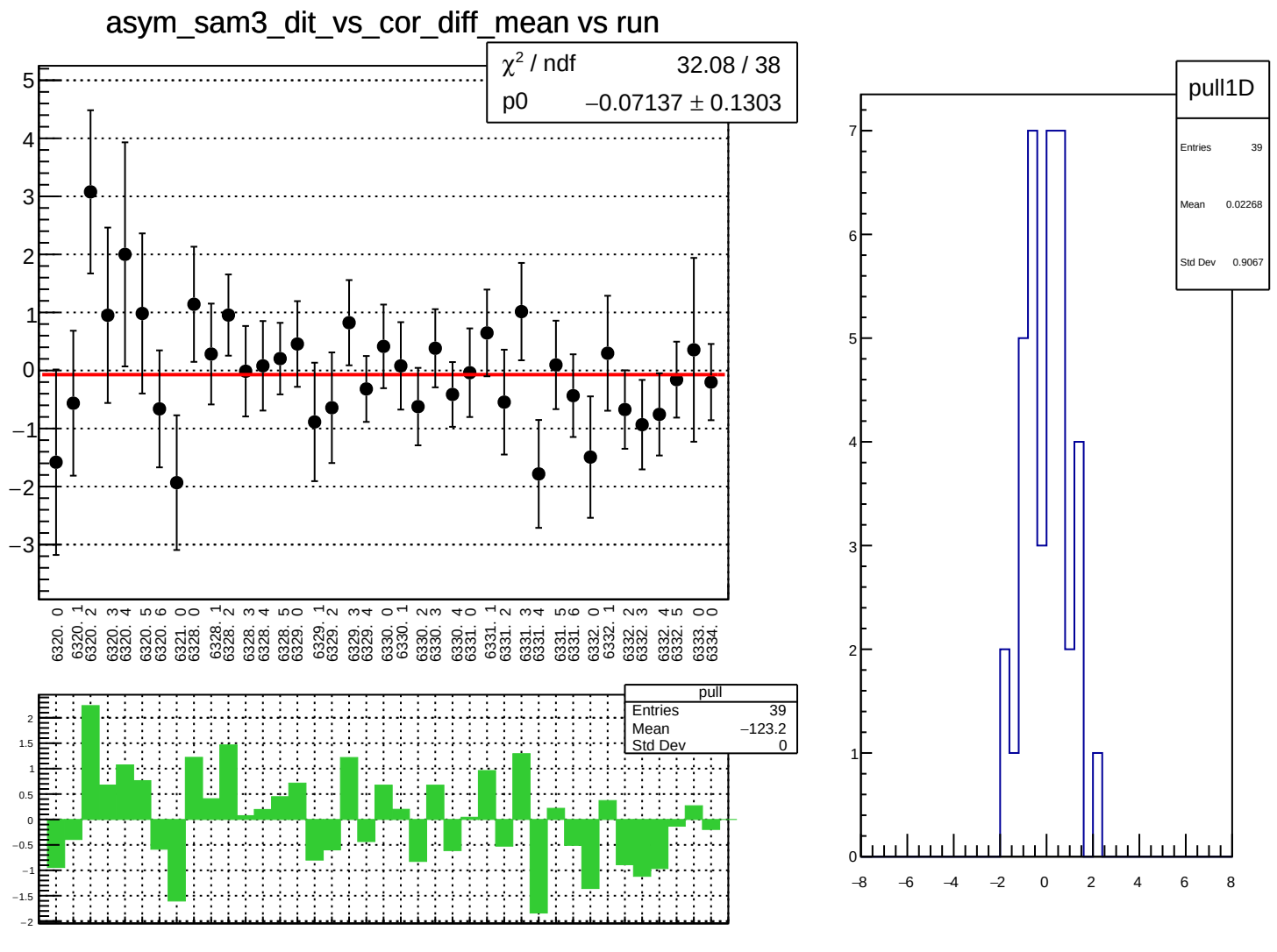

pull1D
Entries 39
Mean 0.04077
Std Dev 0.9533
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

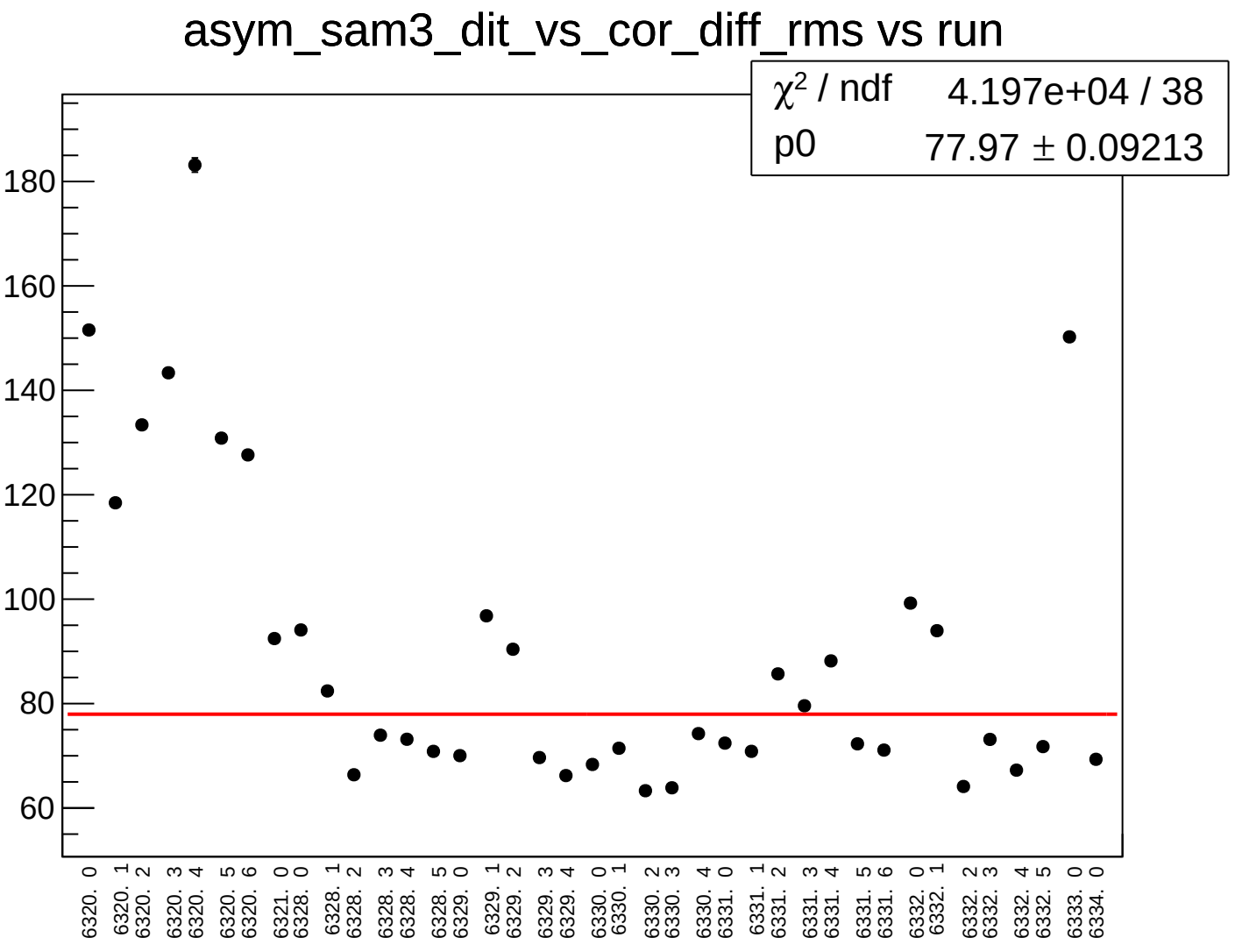

asym_sam3_rms vs run
χ² / ndf 3.61e+04 / 38
p0 1249 ± 1.47
2600
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

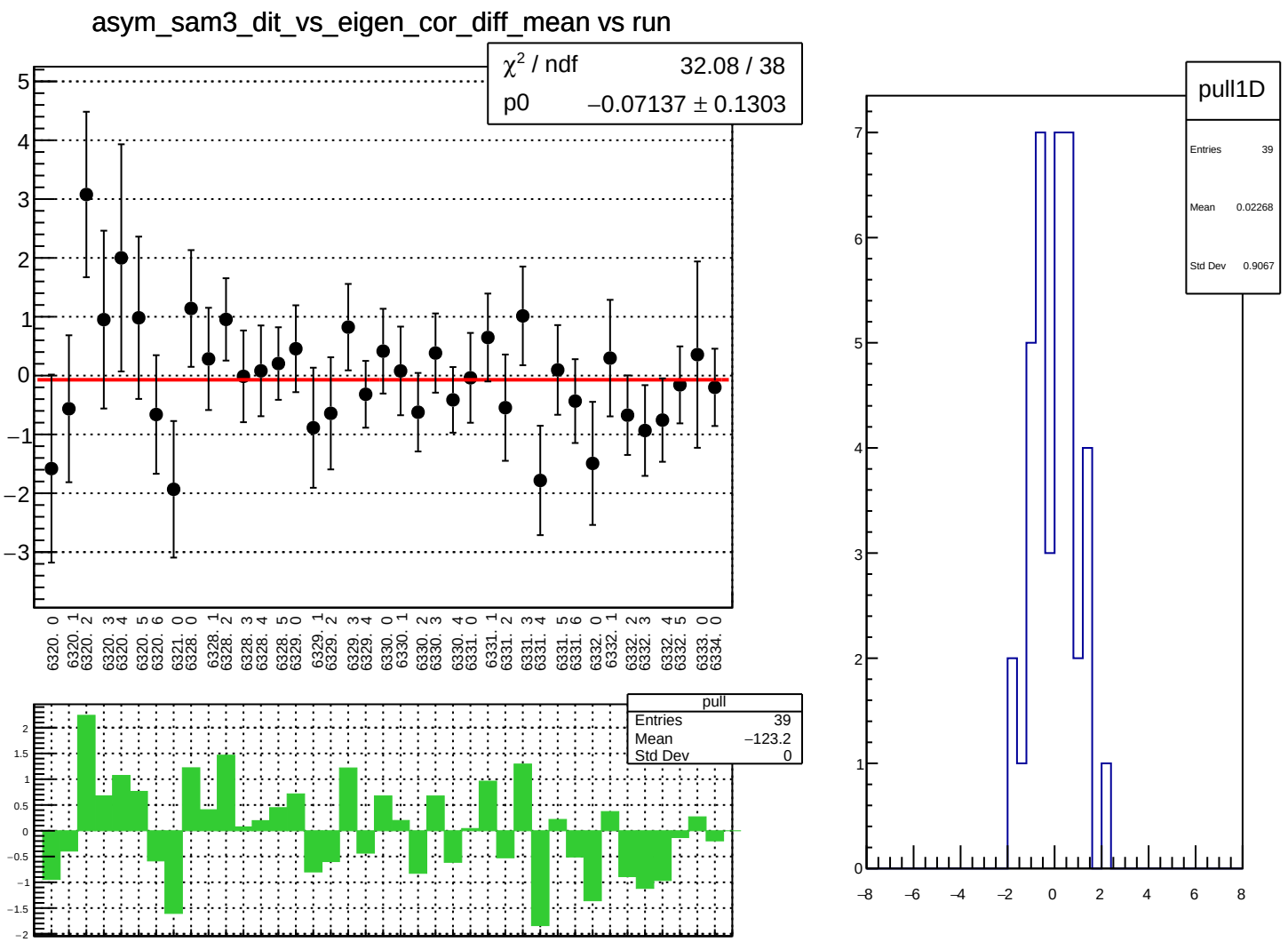

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 36.26 / 38
p0 4.843e−14 ± 1.229e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.59
Std Dev 13.34
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

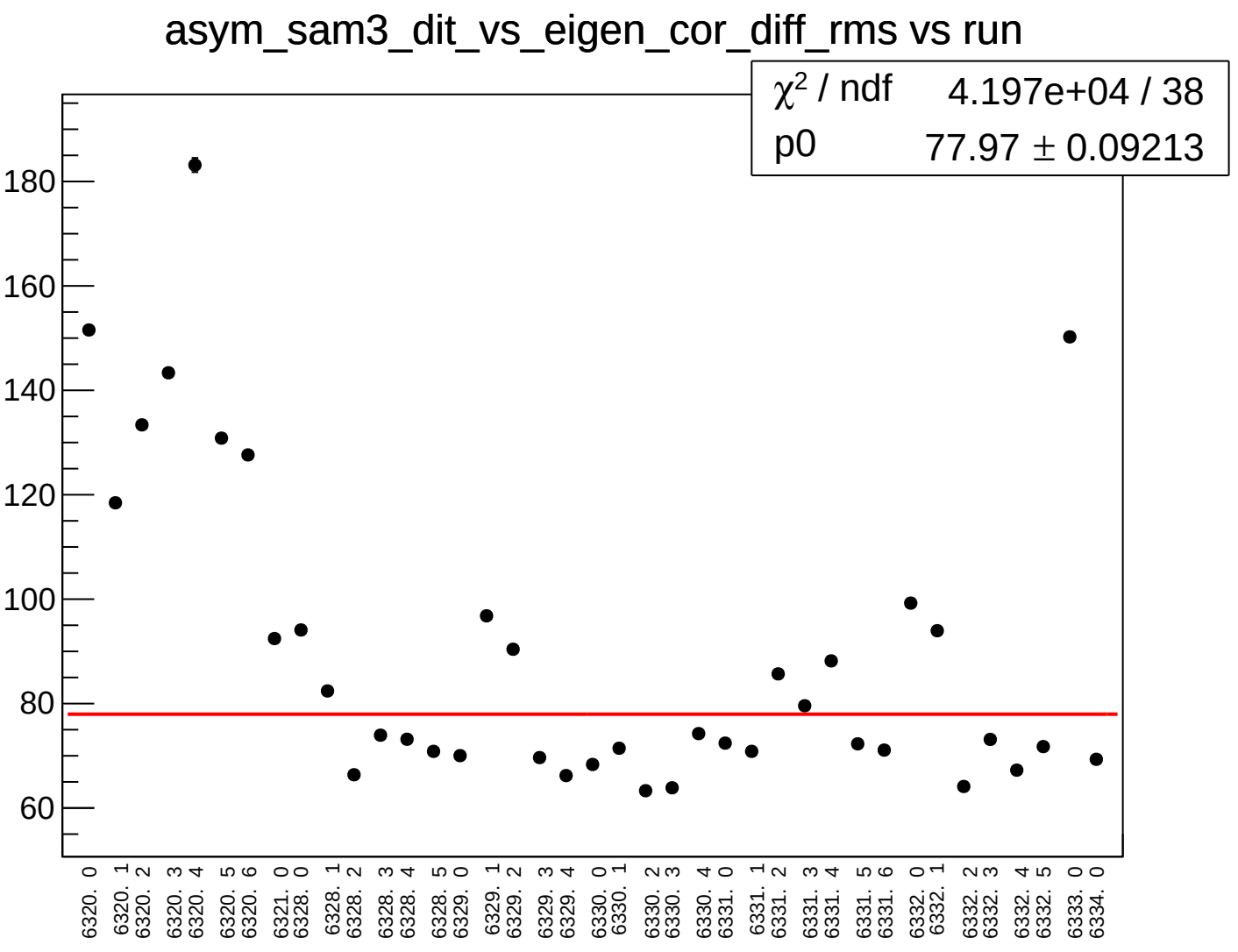

pull1D
Entries 39
Mean 0.1018
Std Dev 0.9589
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

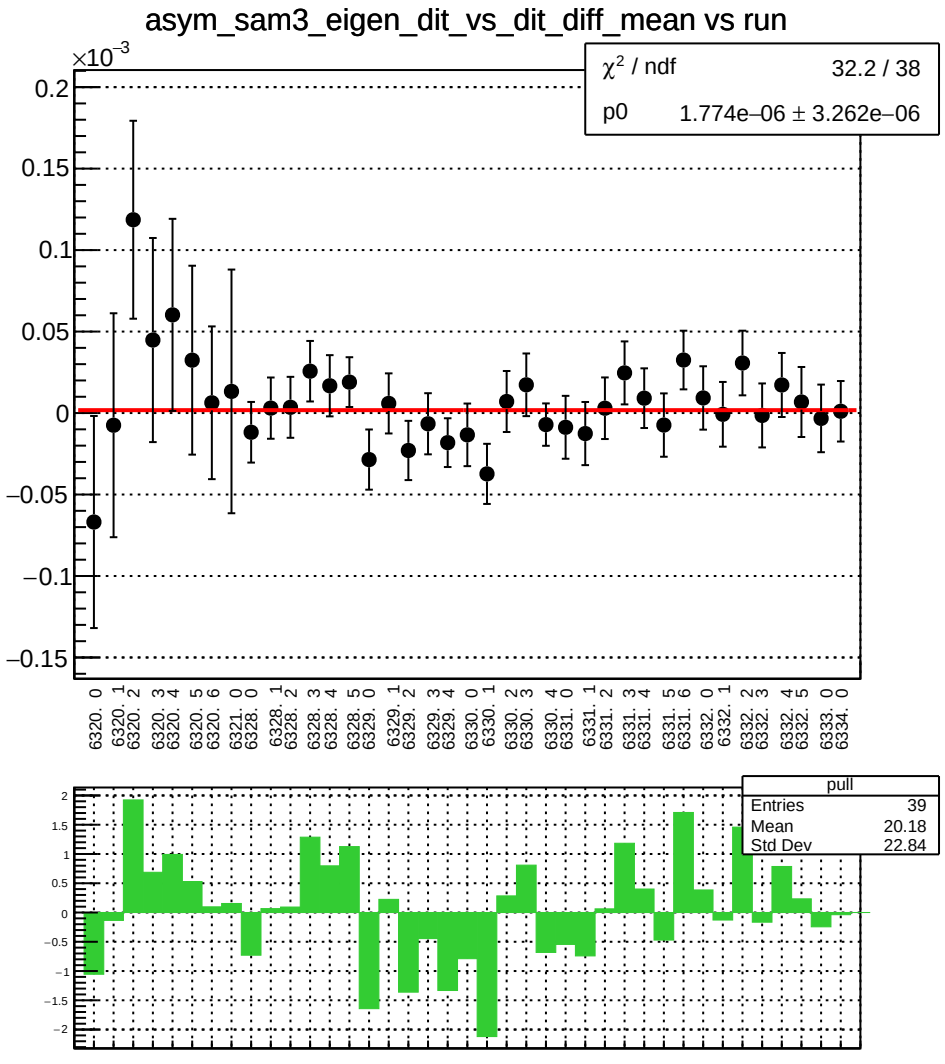

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 4.859e+05 / 38
p0 4.534e−11 ± 8.692e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

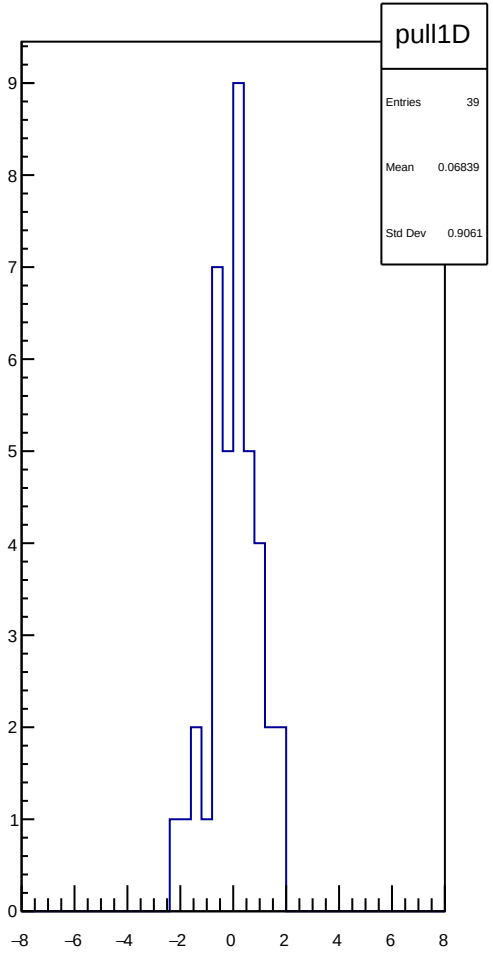

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 32.08 / 38
p0 −0.07137 ± 0.1303
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −123.2
Std Dev 0
pull1D
Entries 39
Mean 0.02268
Std Dev 0.9067

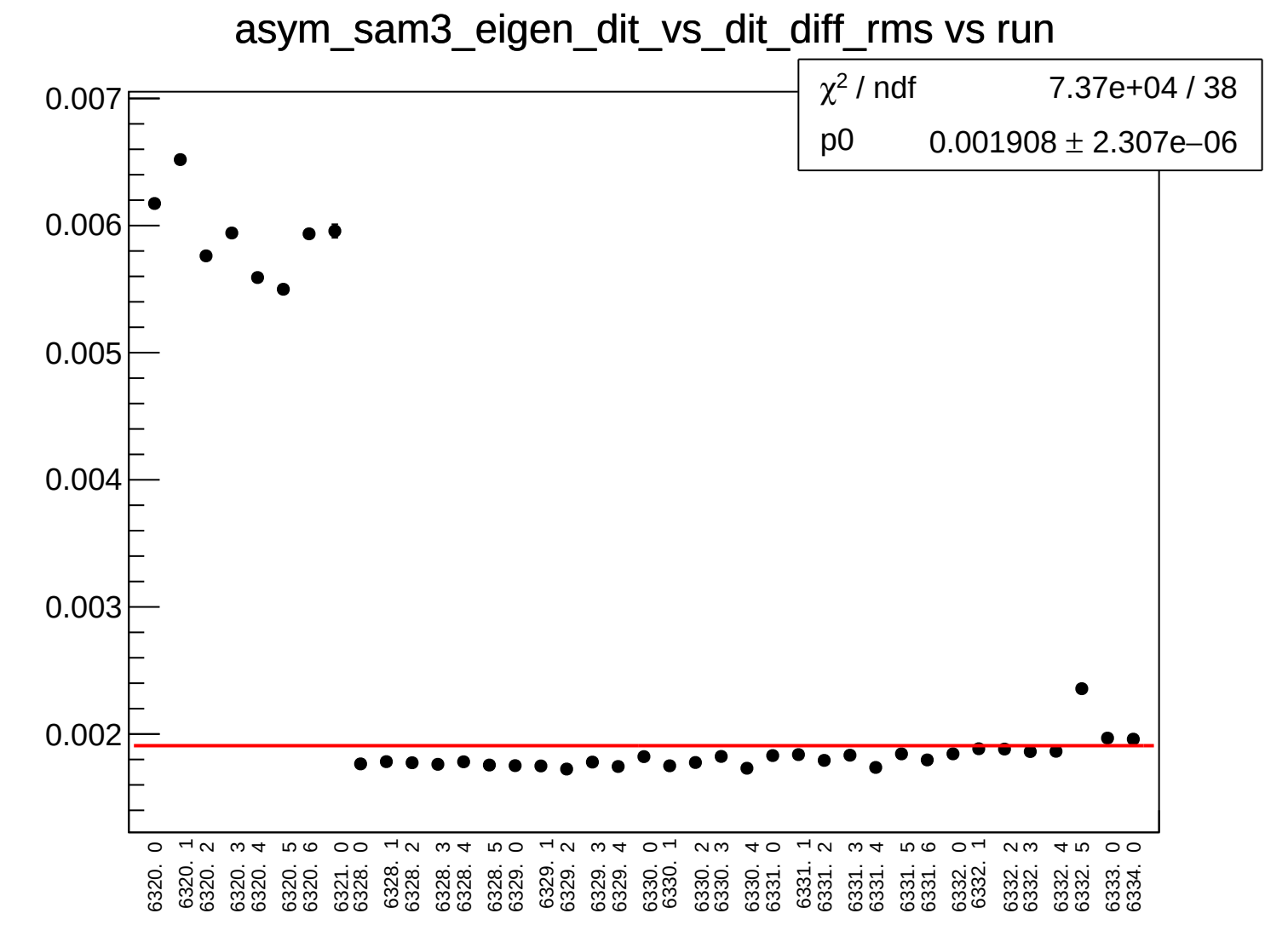

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.197e+04 / 38
p0 77.97 ± 0.09213
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

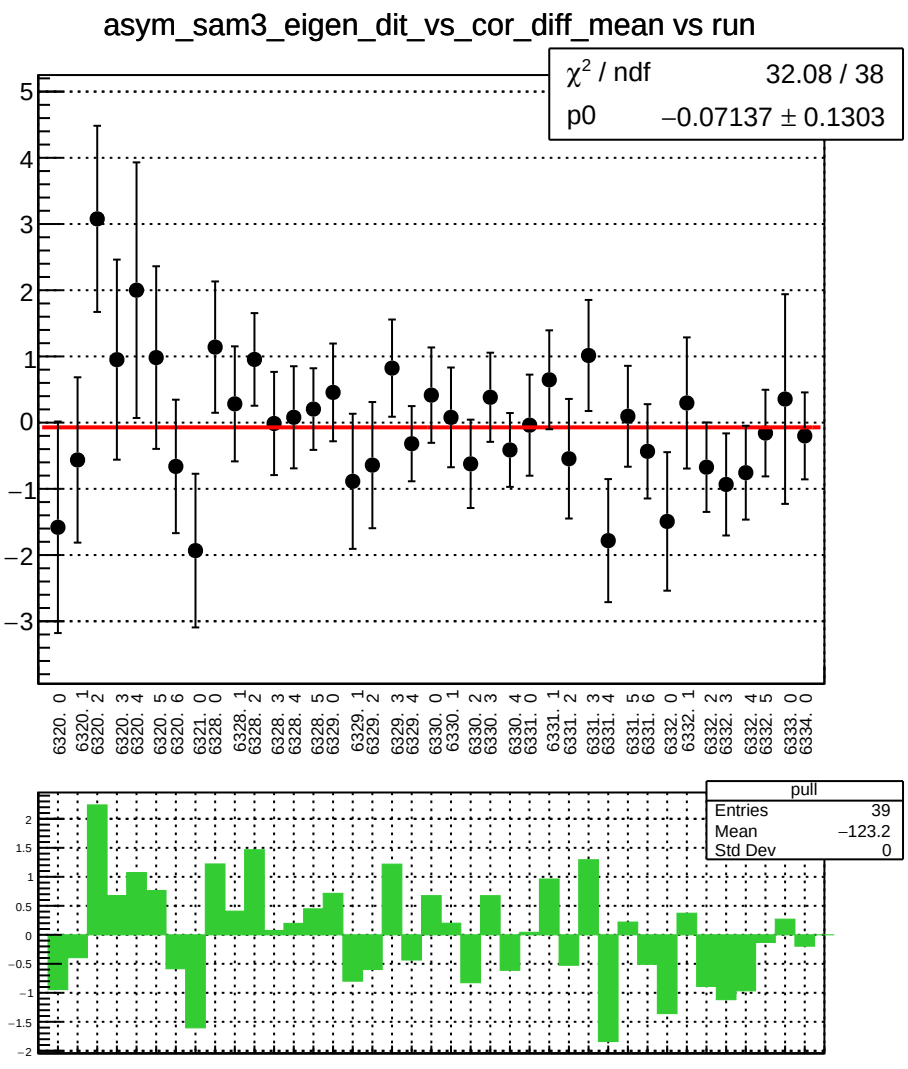

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.08 / 38
p0 −0.07137 ± 0.1303
pull
Entries 39
Mean −123.2
Std Dev 0
pull1D
Entries 39
Mean 0.02268
Std Dev 0.9067

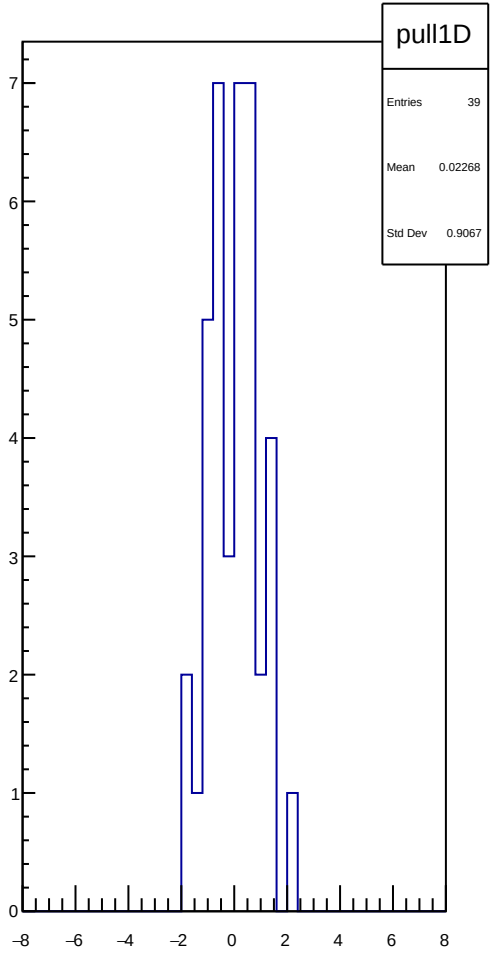

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.197e+04 / 38
p0 77.97 ± 0.09213
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

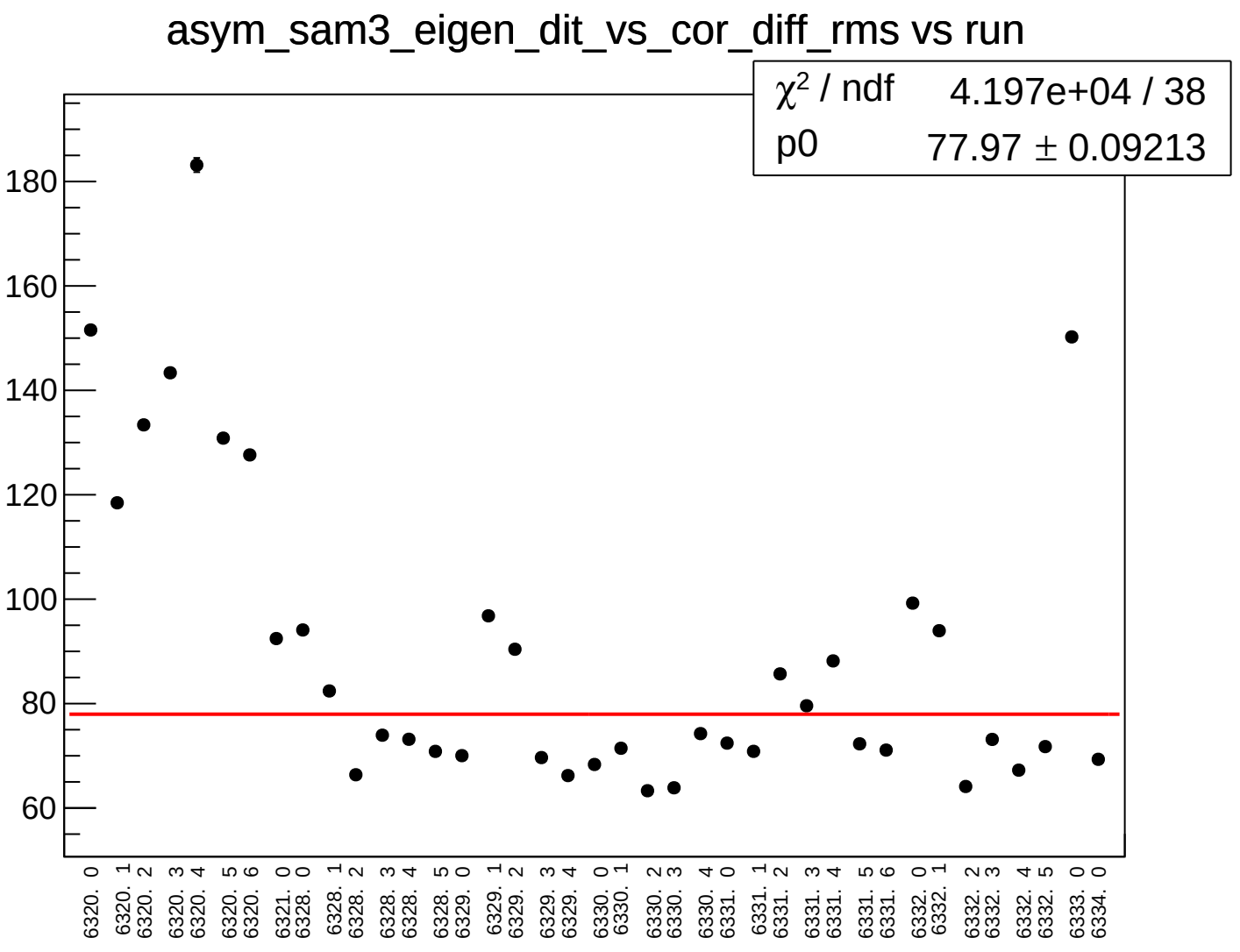

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.2 / 38
p0 1.774e−06 ± 3.262e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.18
Std Dev 22.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

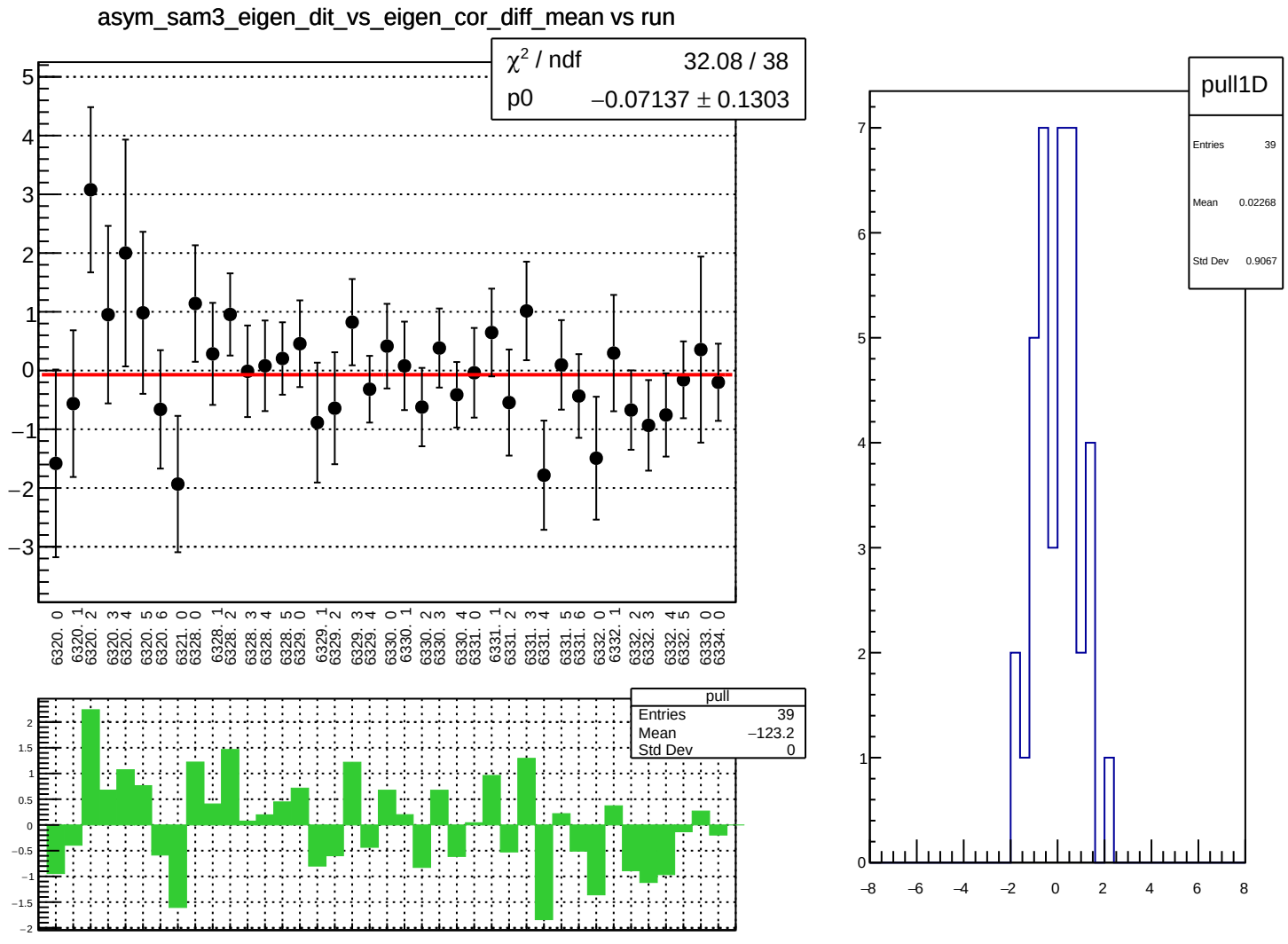

pull1D
Entries 39
Mean 0.06839
Std Dev 0.9061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

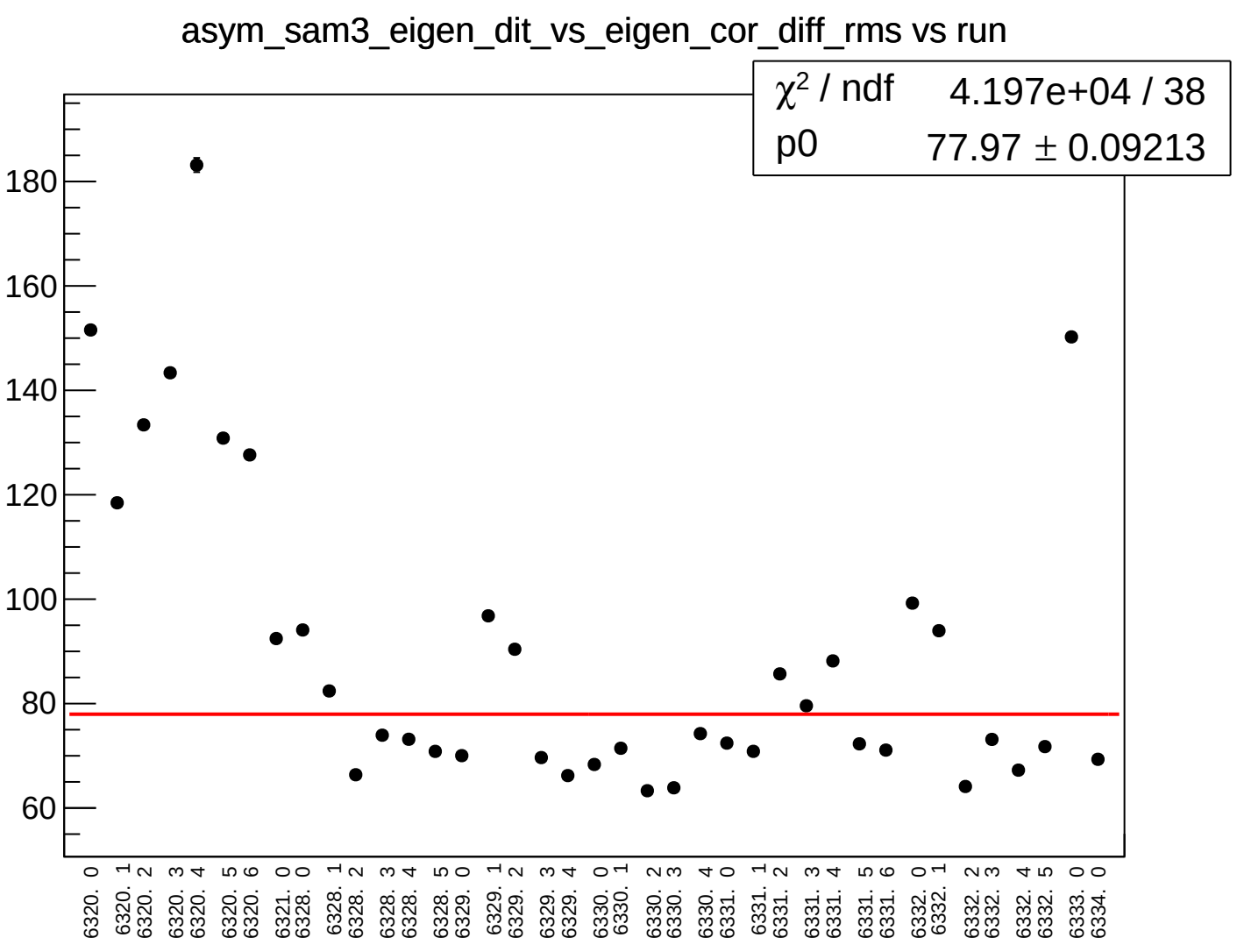

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.37e+04 / 38
p0 0.001908 ± 2.307e−06
0.007
0.006
0.005
0.004
0.003
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

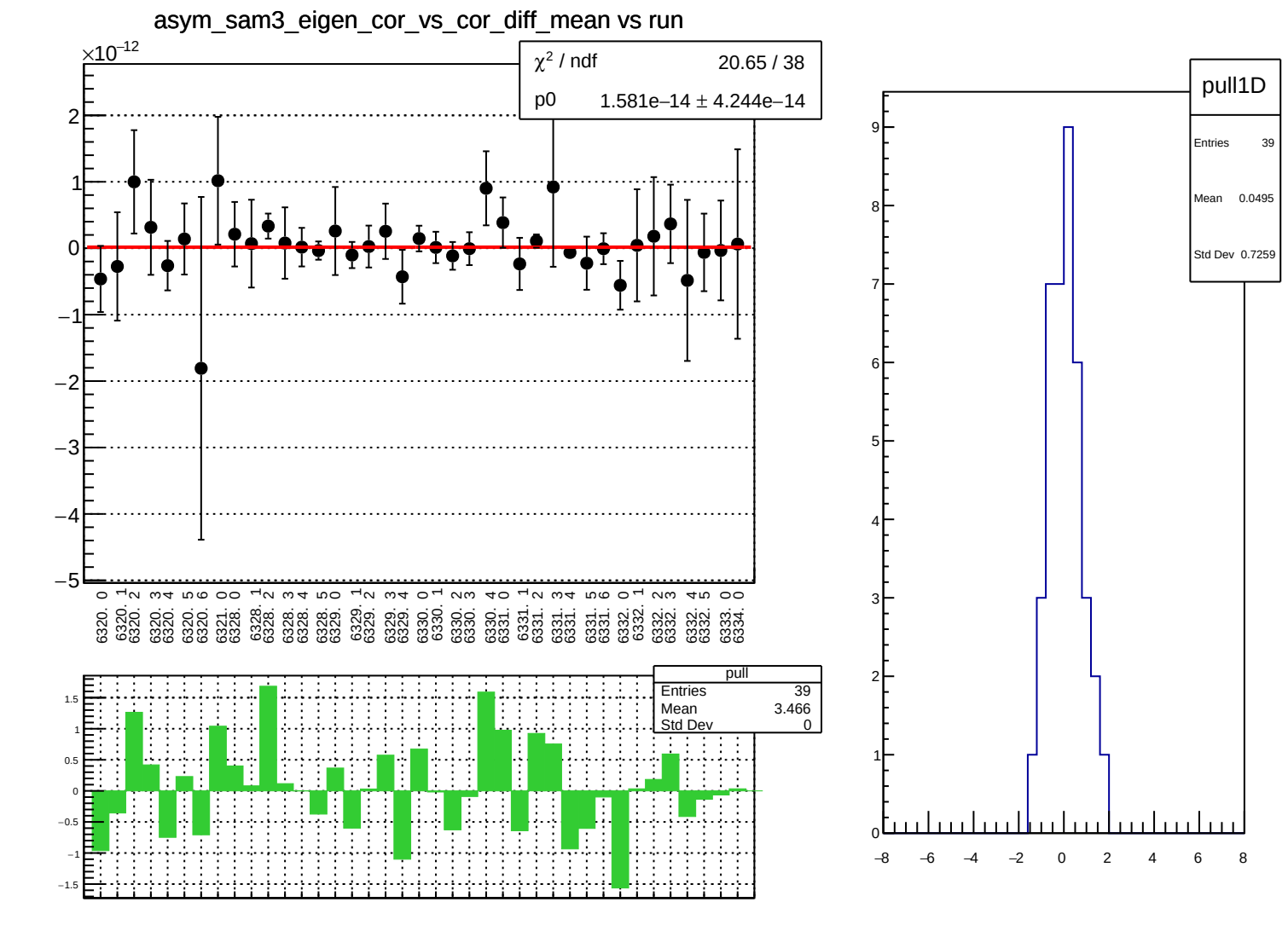

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.08 / 38
p0 −0.07137 ± 0.1303
pull
Entries 39
Mean −123.2
Std Dev 0

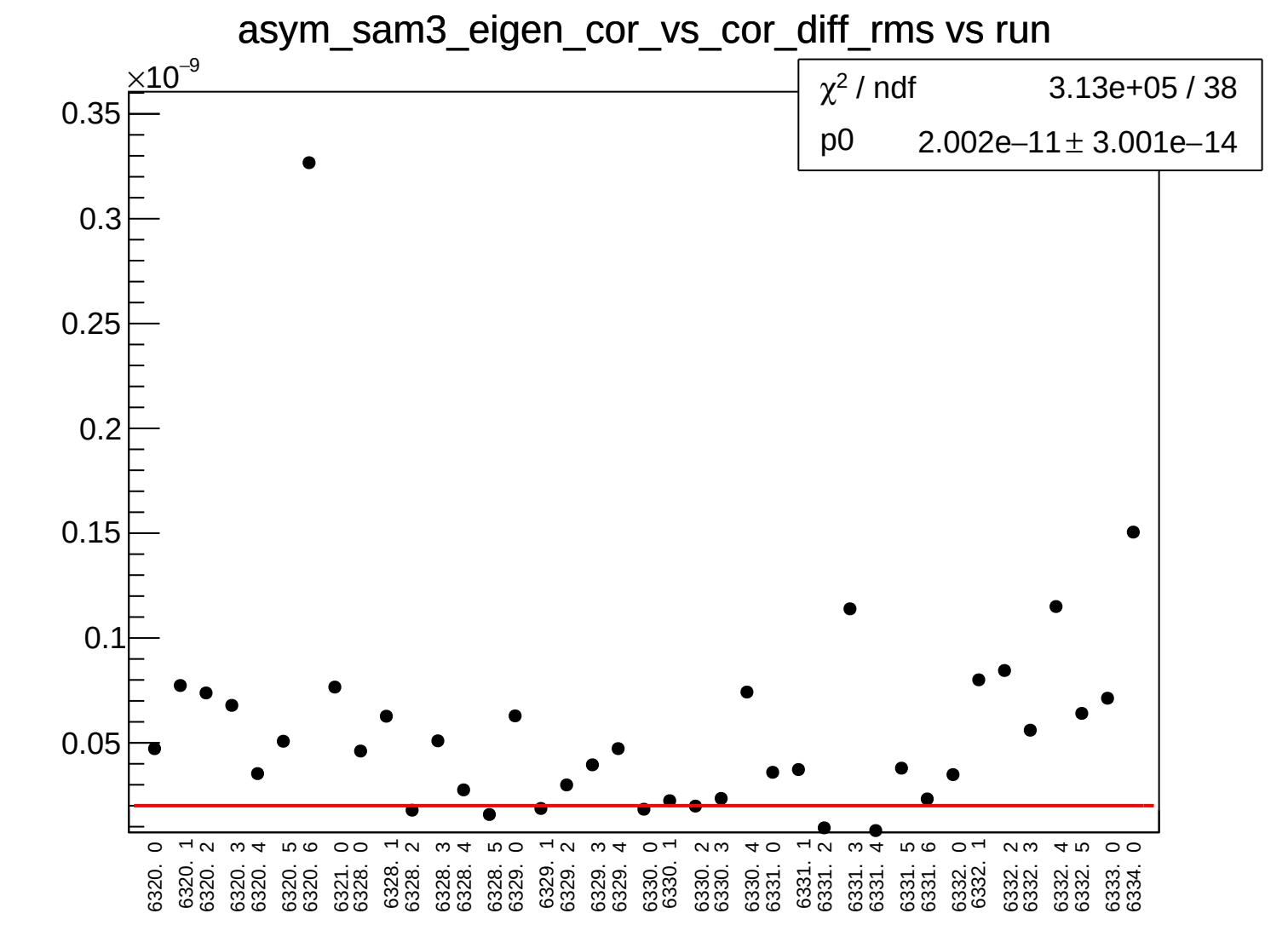

pull1D
Entries 39
Mean 0.02268
Std Dev 0.9067

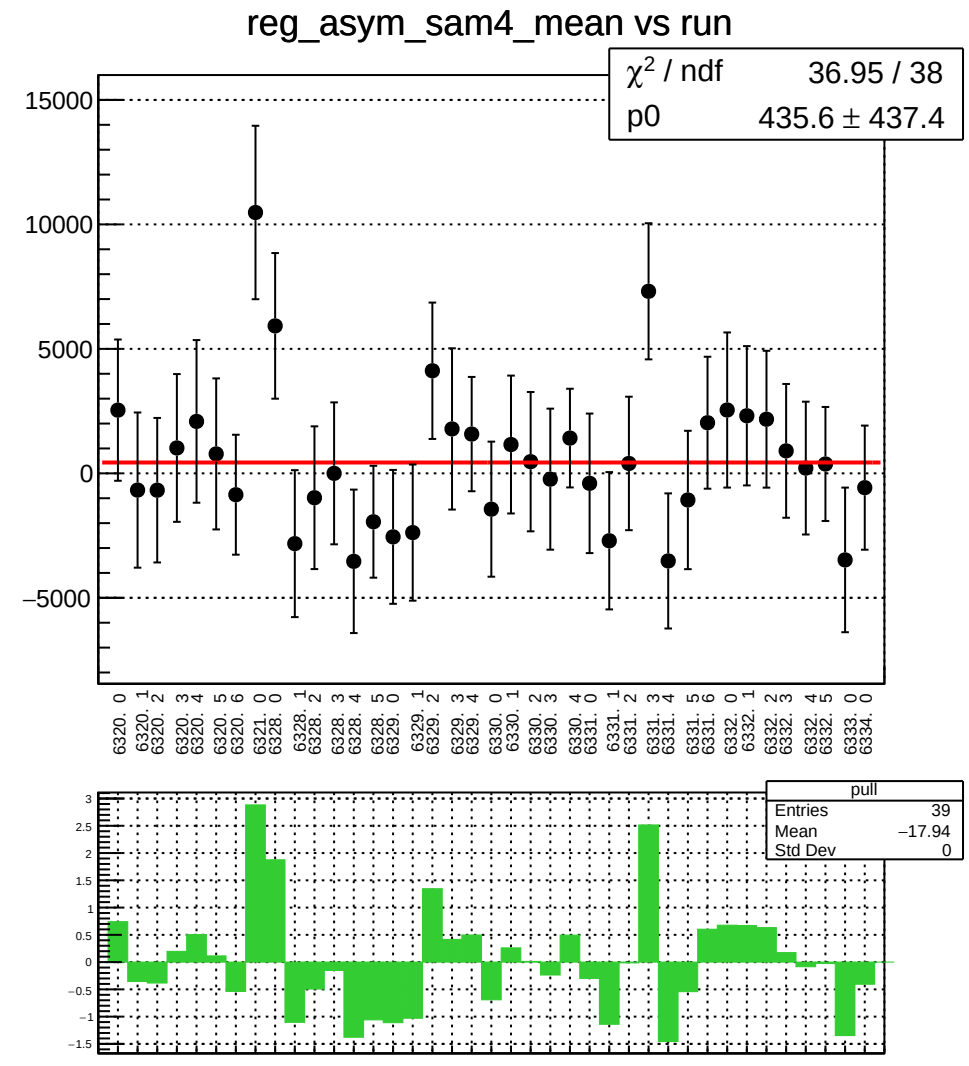

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.197e+04 / 38
p0 77.97 ± 0.09213
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

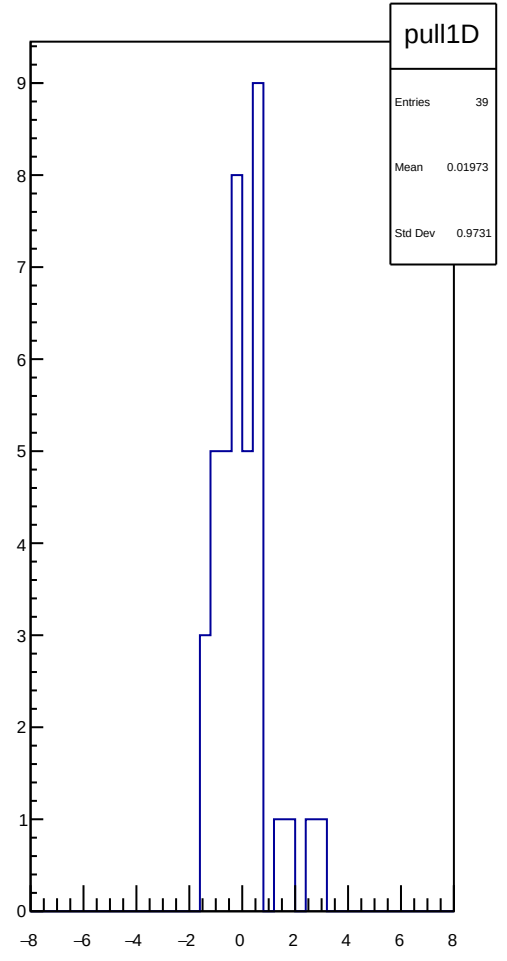

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.08 / 38
p0 −0.07137 ± 0.1303
pull
Entries 39
Mean −123.2
Std Dev 0
pull1D
Entries 39
Mean 0.02268
Std Dev 0.9067

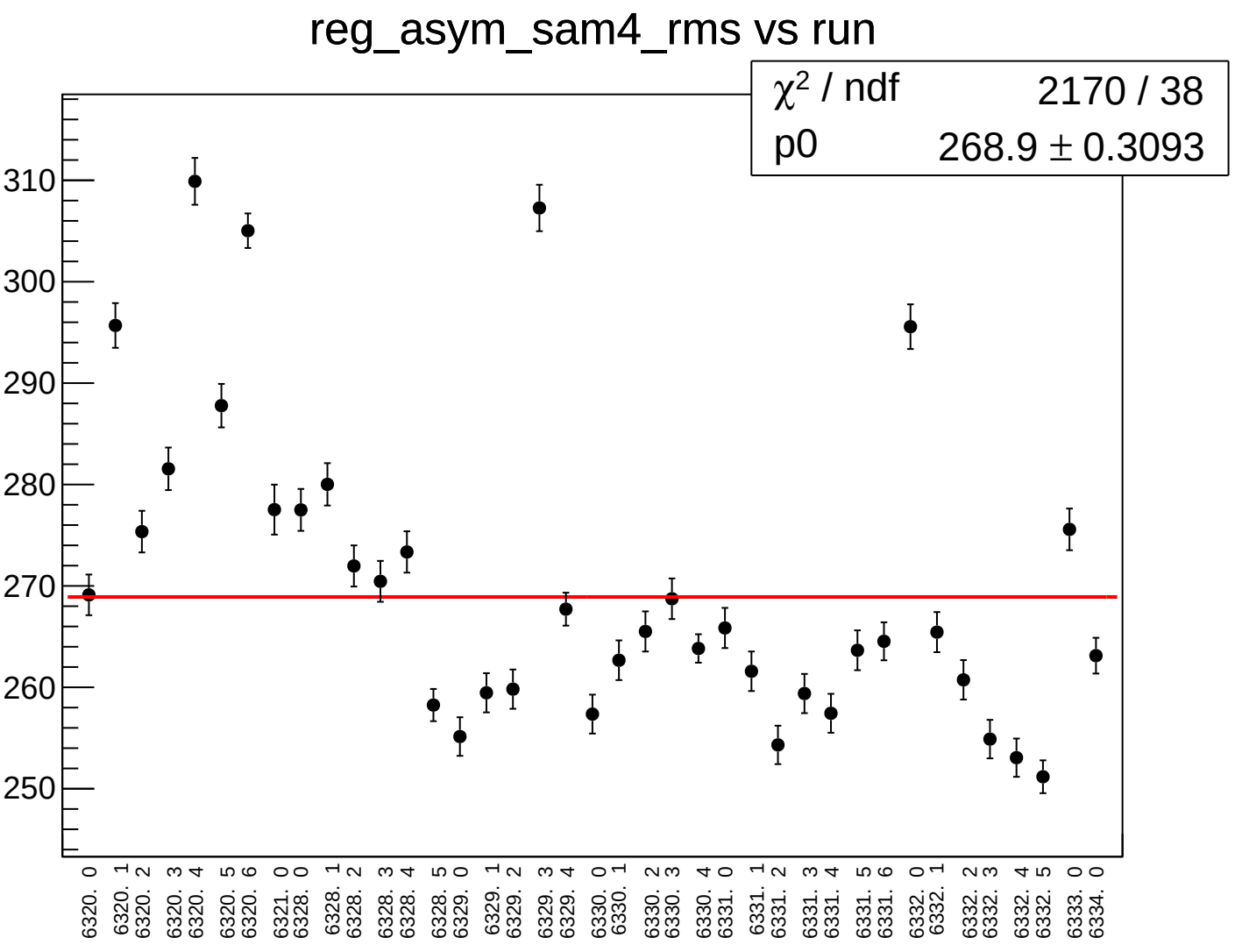

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.197e+04 / 38
p0 77.97 ± 0.09213
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

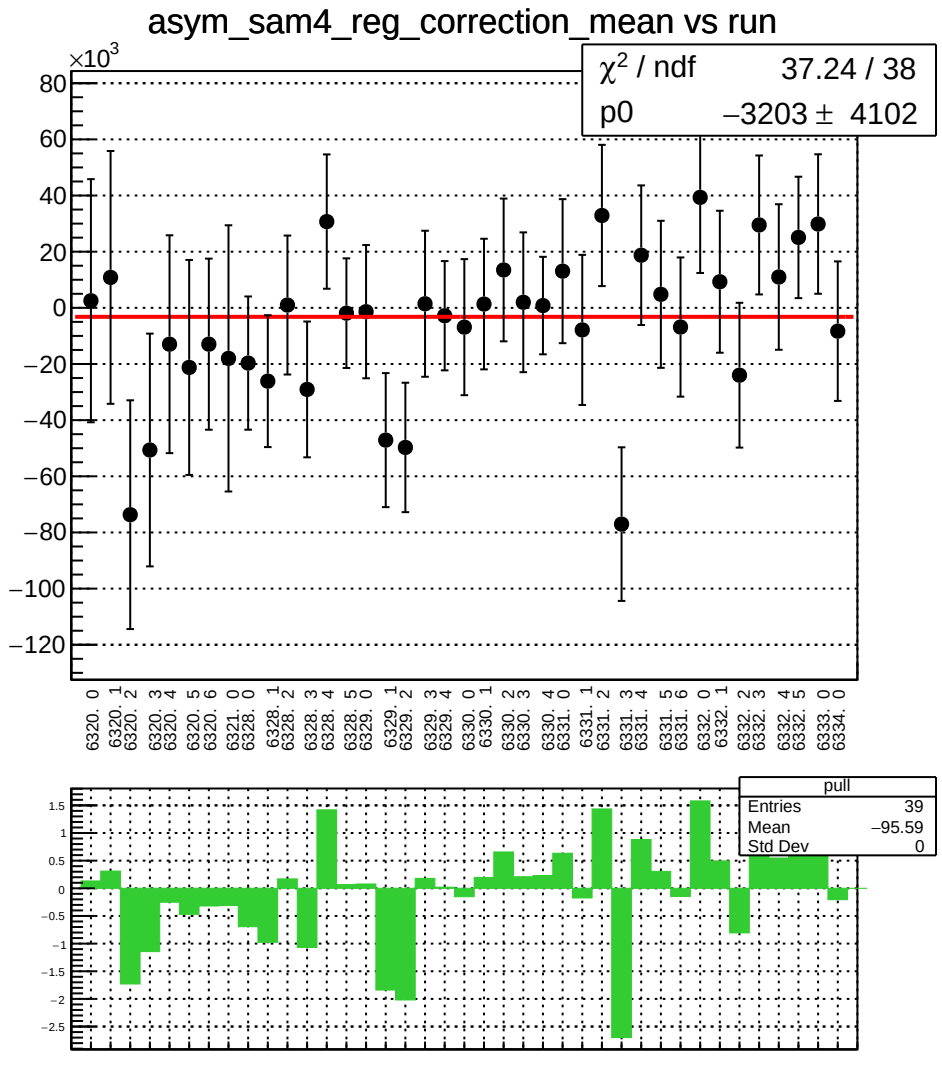

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.65 / 38
p0 1.581e−14 ± 4.244e−14
pull
Entries 39
Mean 3.466
Std Dev 0
pull1D
Entries 39
Mean 0.0495
Std Dev 0.7259

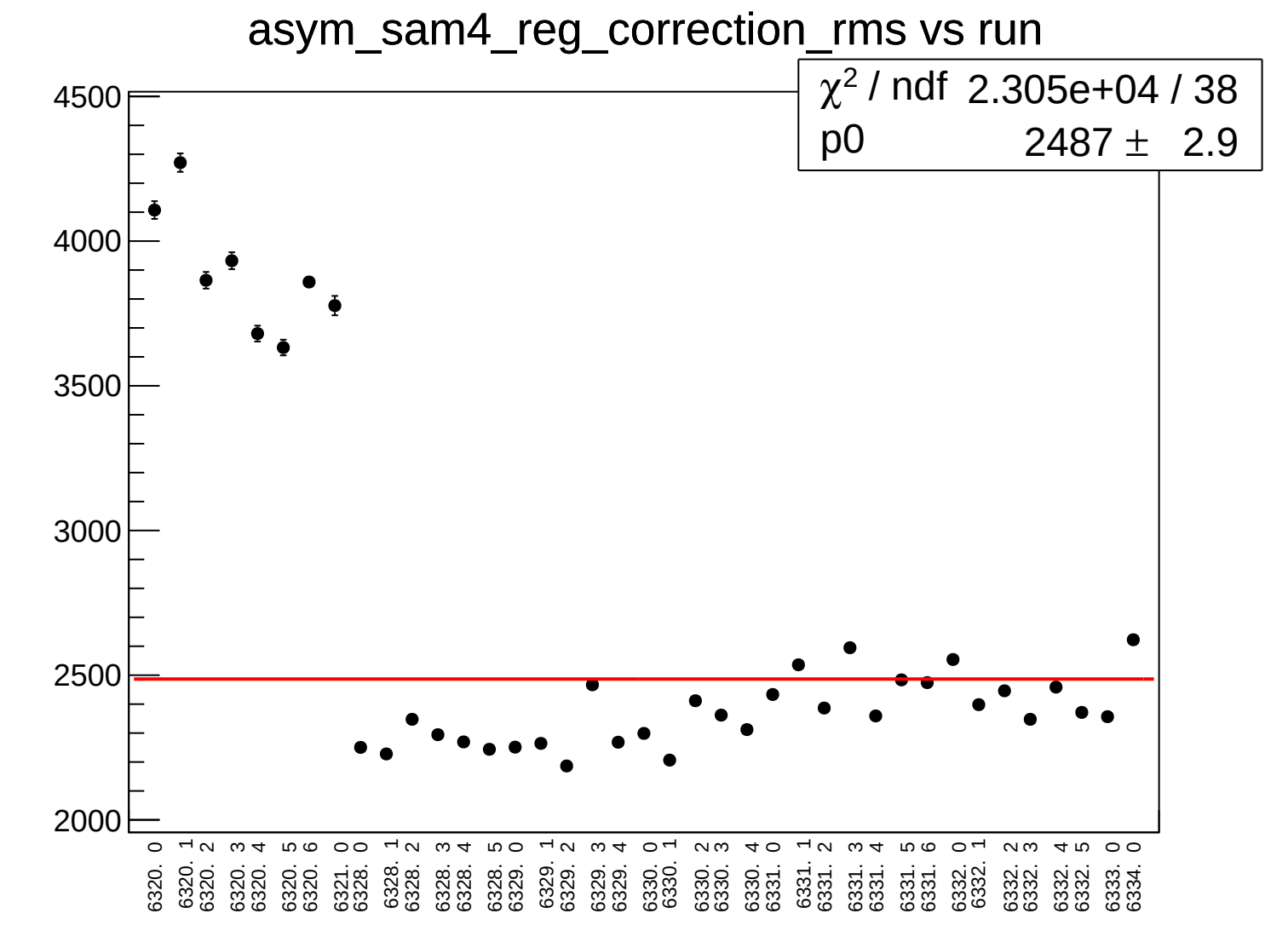

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.13e+05 / 38
p0 2.002e−11 ± 3.001e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

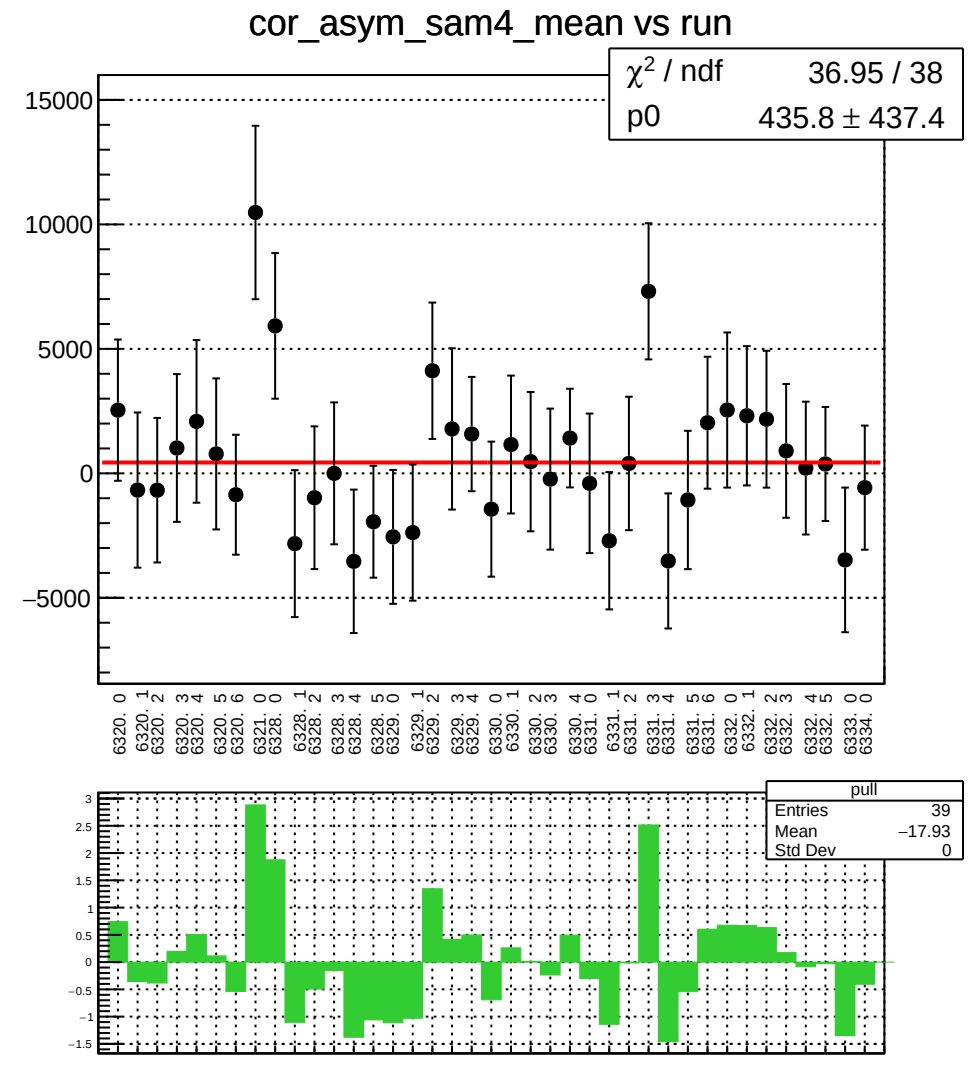

reg_asym_sam4_mean vs run
χ² / ndf 36.95 / 38
p0 435.6 ± 437.4
15000
10000
5000
0
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.94
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

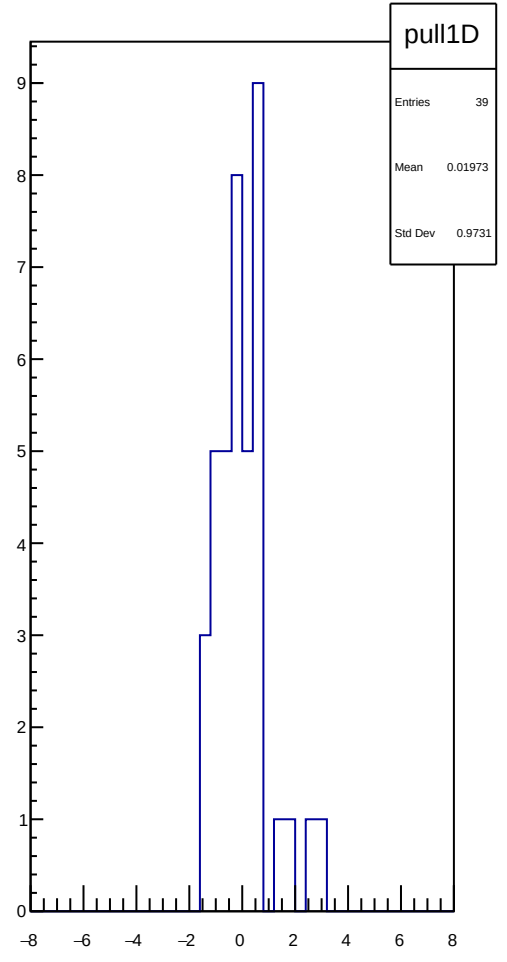

pull1D
Entries 39
Mean 0.01973
Std Dev 0.9731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

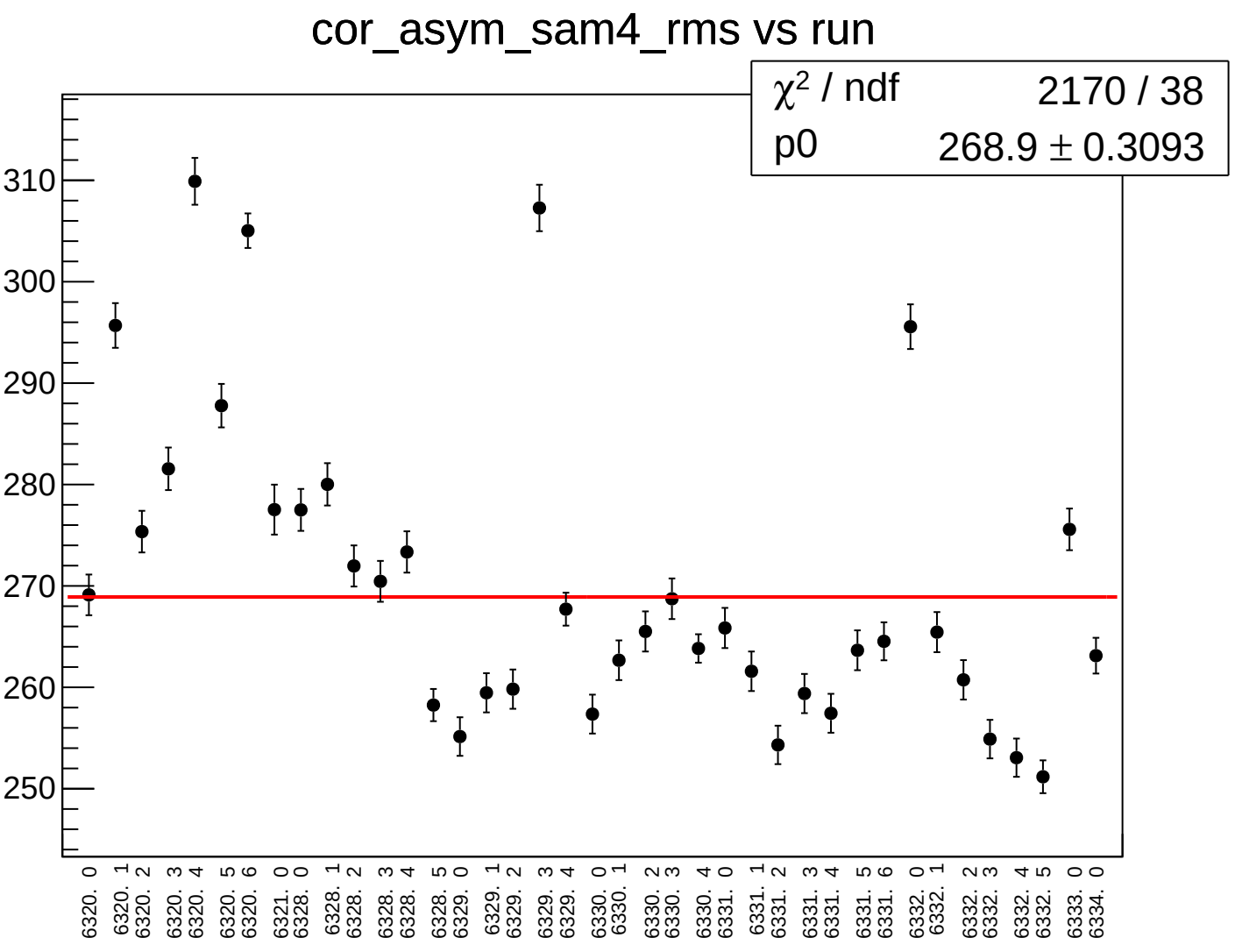

reg_asym_sam4_rms vs run
χ² / ndf 2170 / 38
p0 268.9 ± 0.3093
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

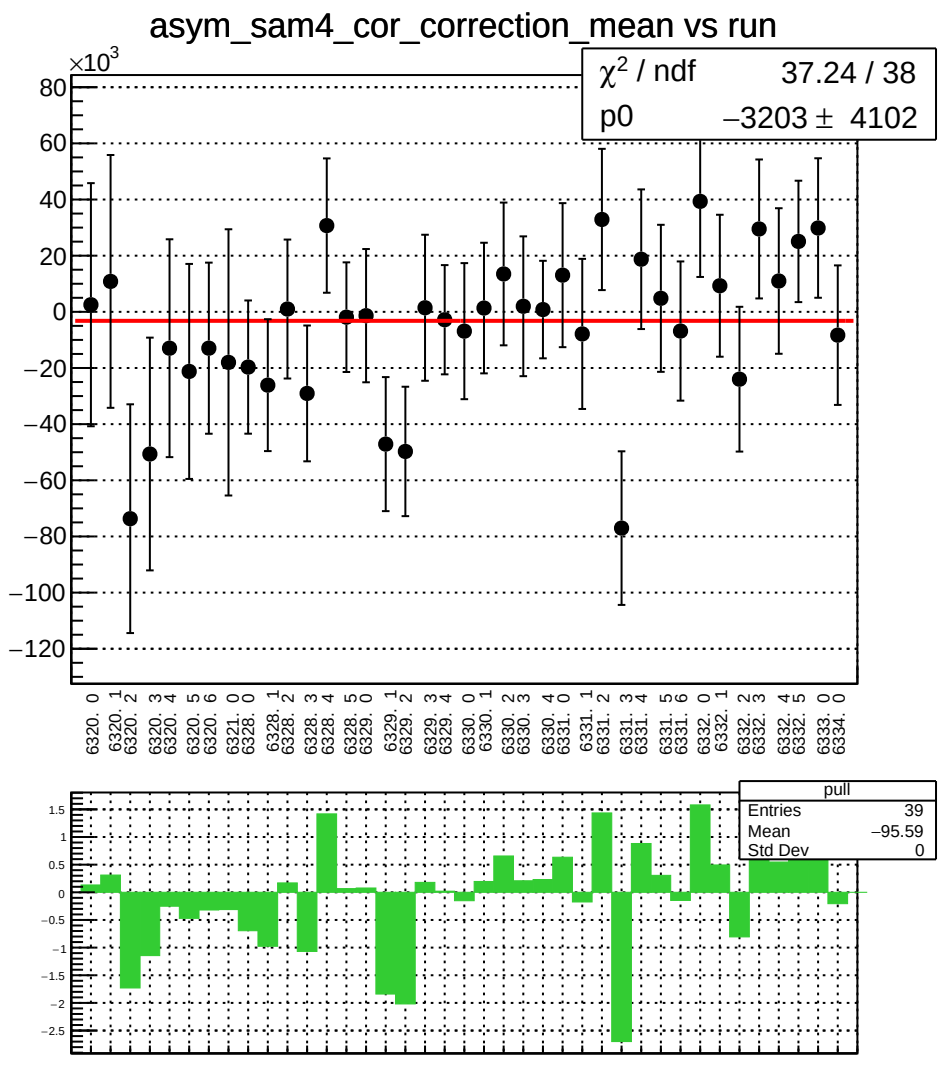

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 37.24 / 38
p0 −3203 ± 4102
pull
Entries 39
Mean −95.59
Std Dev 0
pull1D
Entries 39
Mean −0.03845
Std Dev 0.9764

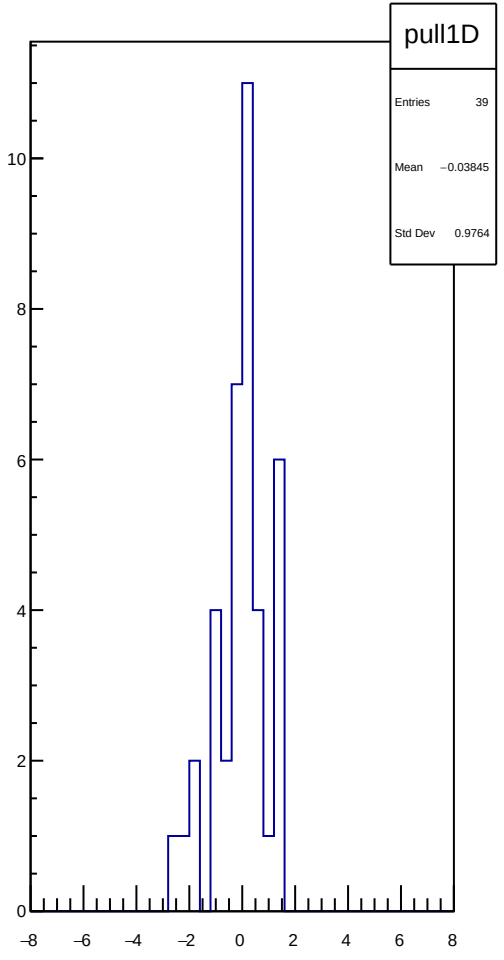

asym_sam4_reg_correction_rms vs run
χ² / ndf 2.305e+04 / 38
p0 2487 ± 2.9
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

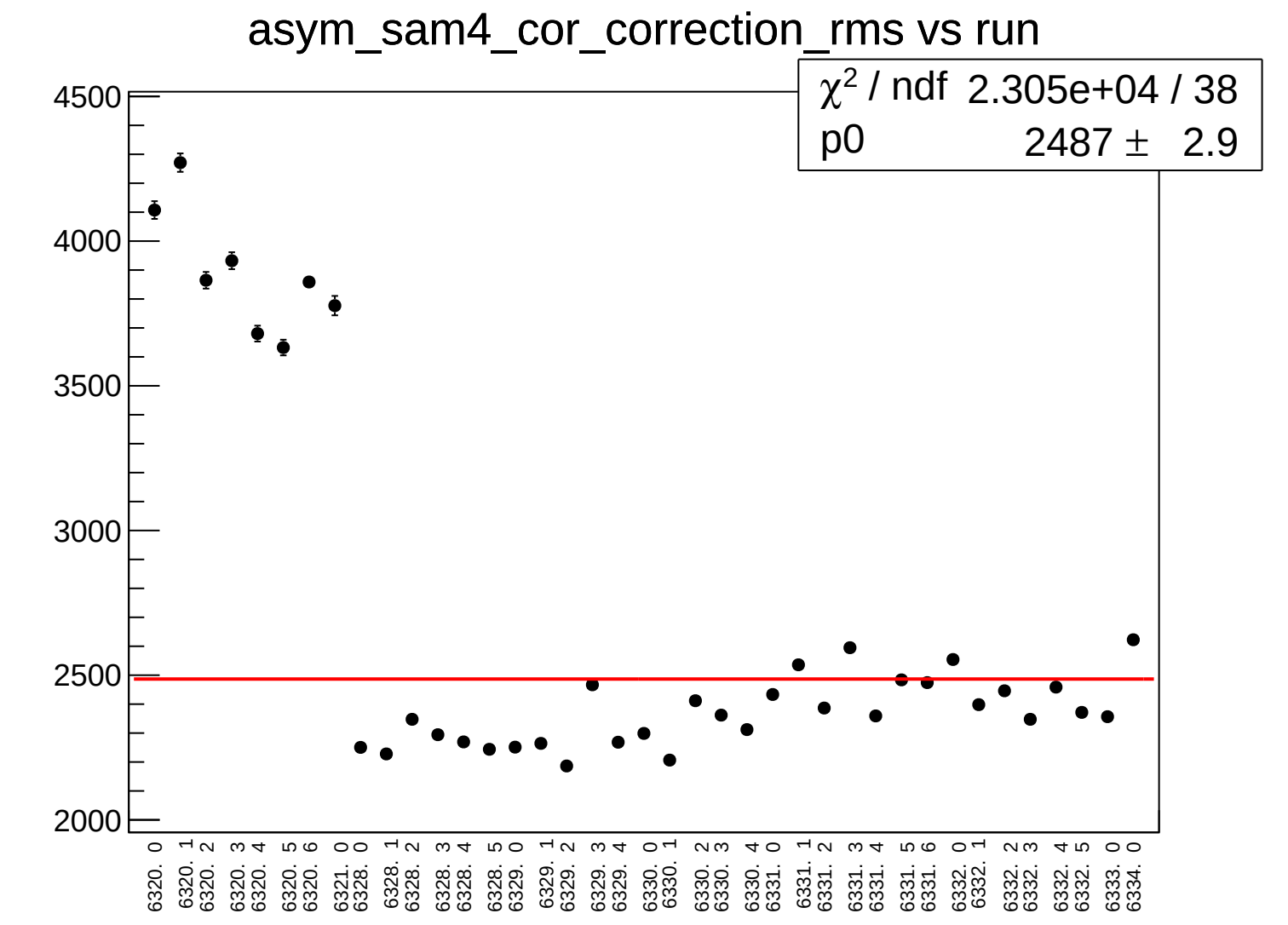

cor_asym_sam4_mean vs run
χ² / ndf 36.95 / 38
p0 435.8 ± 437.4
15000
10000
5000
0
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.93
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

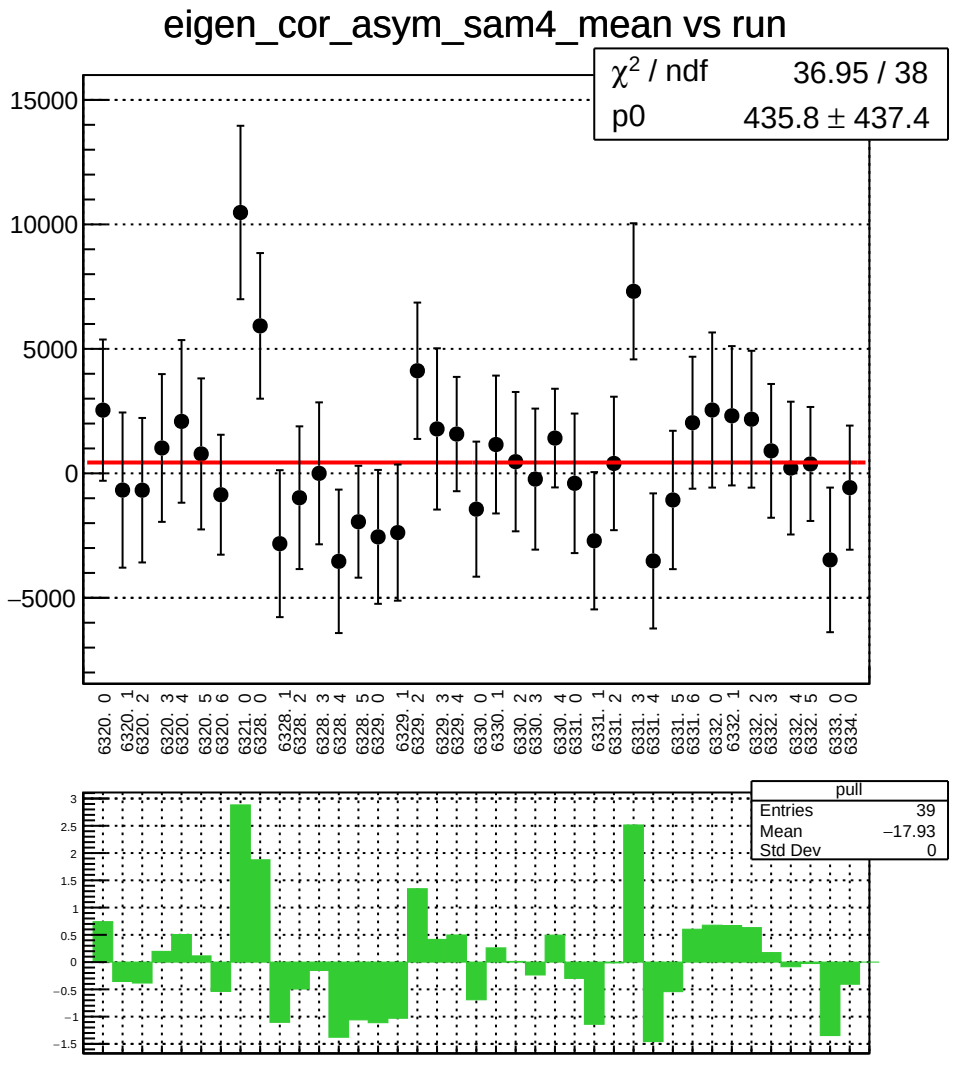

pull1D
Entries 39
Mean 0.01973
Std Dev 0.9731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

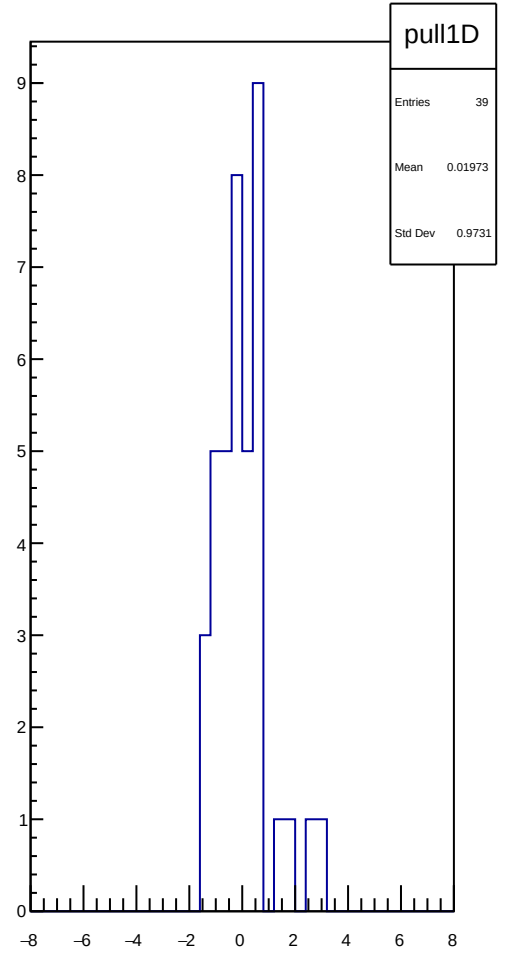

cor_asym_sam4_rms vs run
χ² / ndf 2170 / 38
p0 268.9 ± 0.3093
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

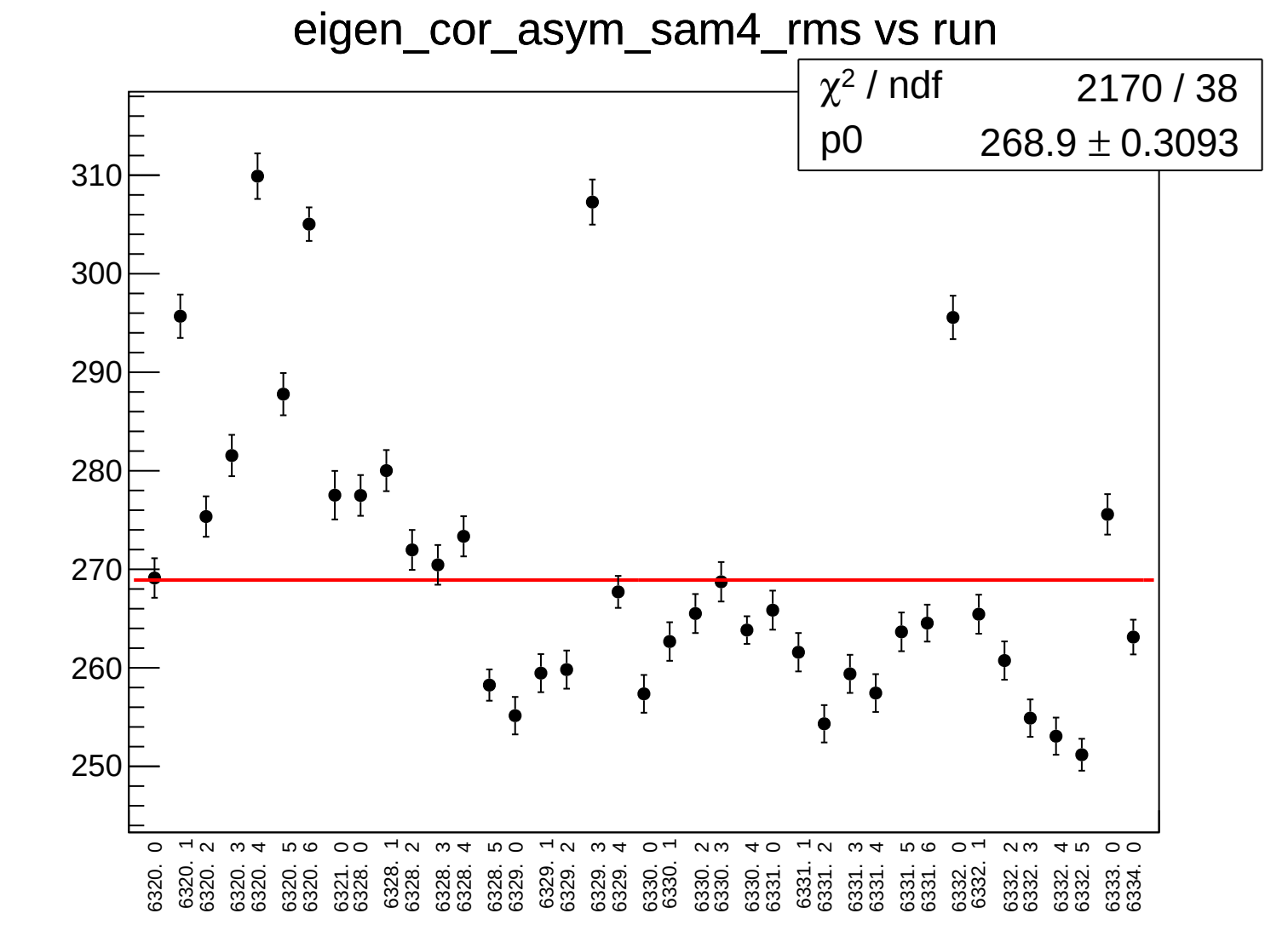

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 37.24 / 38
p0 −3203 ± 4102
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −95.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

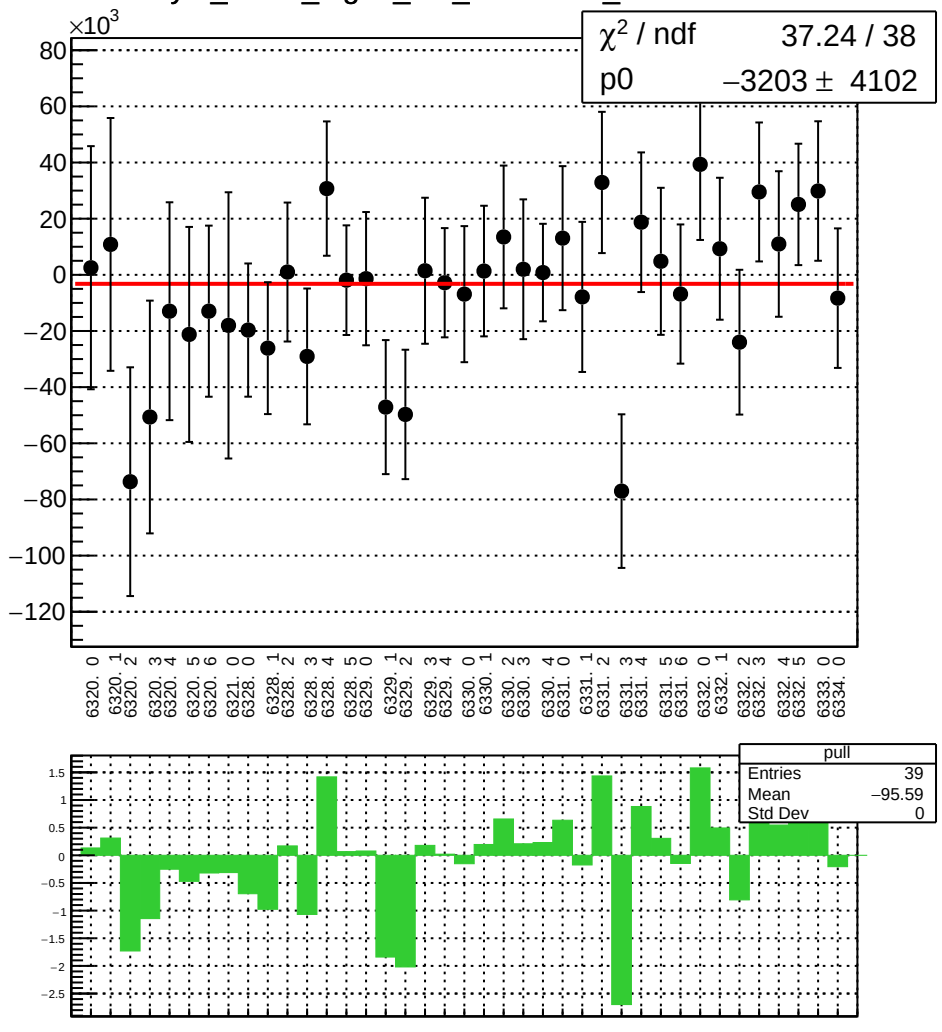

pull1D
Entries 39
Mean −0.03845
Std Dev 0.9764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

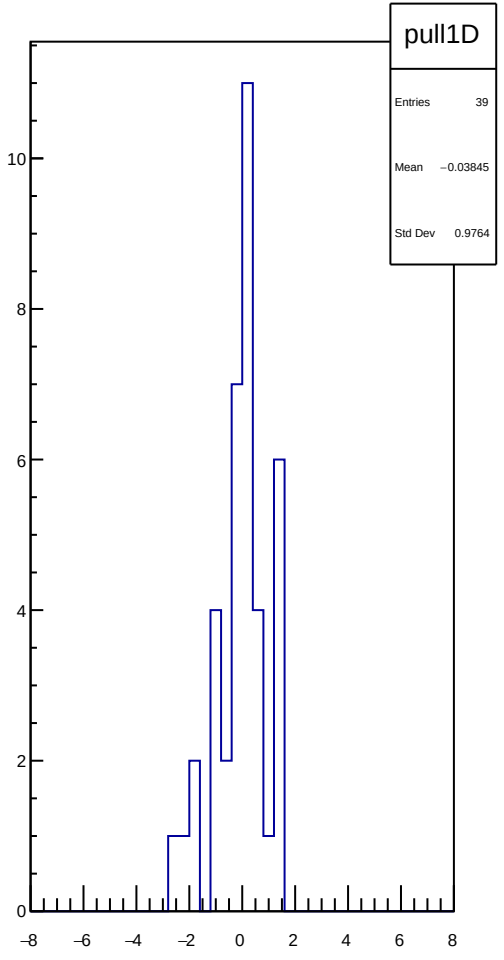

asym_sam4_cor_correction_rms vs run
χ² / ndf 2.305e+04 / 38
p0 2487 ± 2.9
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

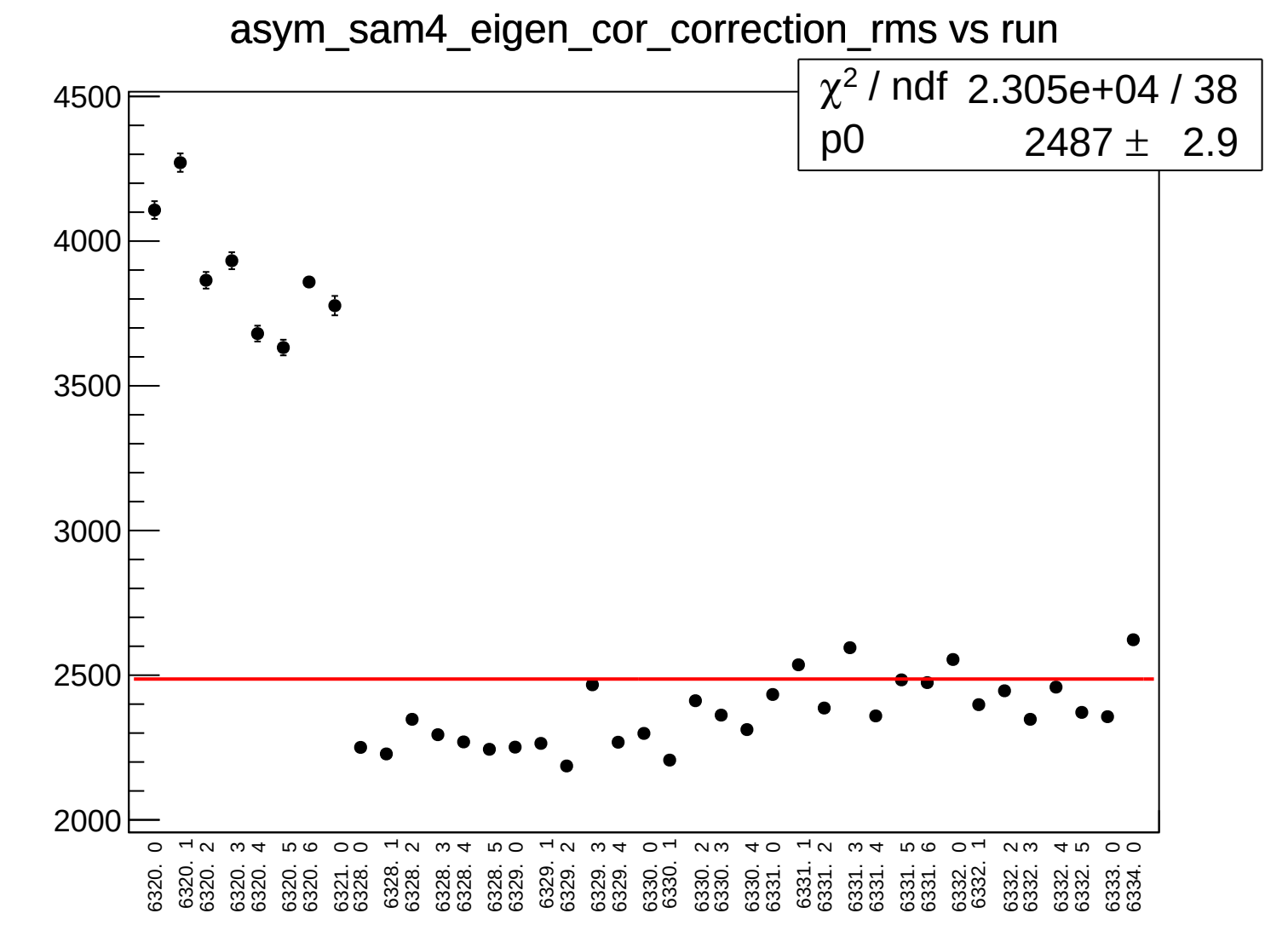

eigen_cor_asym_sam4_mean vs run
χ² / ndf 36.95 / 38
p0 435.8 ± 437.4
15000
10000
5000
0
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.93
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

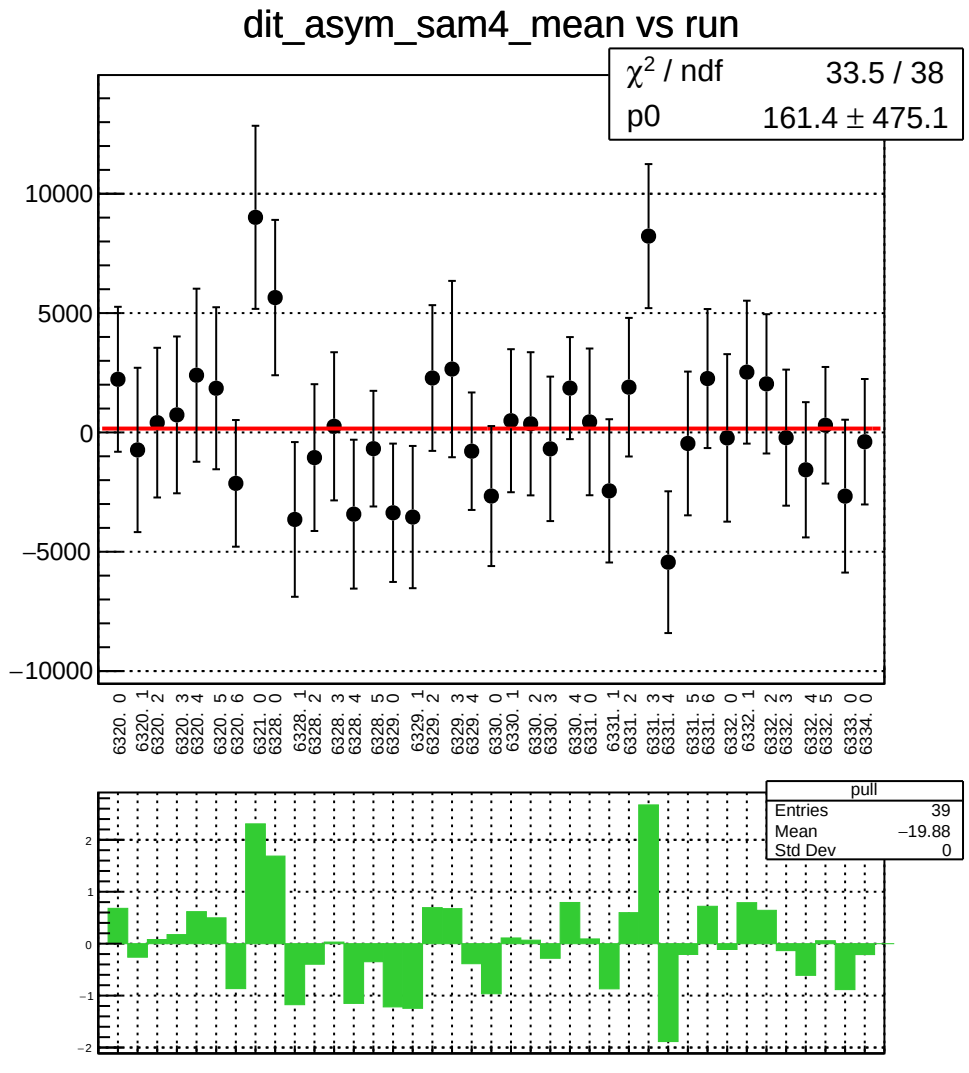

pull1D
Entries 39
Mean 0.01973
Std Dev 0.9731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

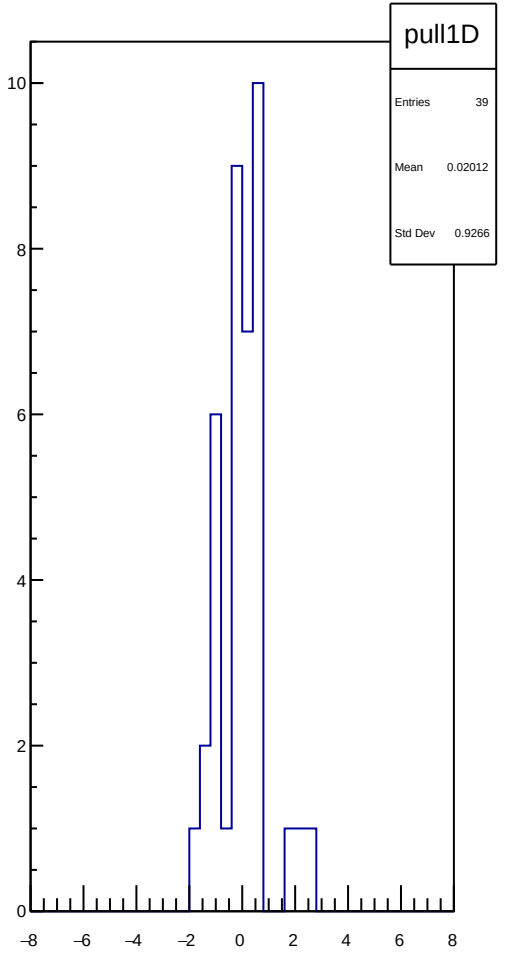

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2170 / 38
p0 268.9 ± 0.3093
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

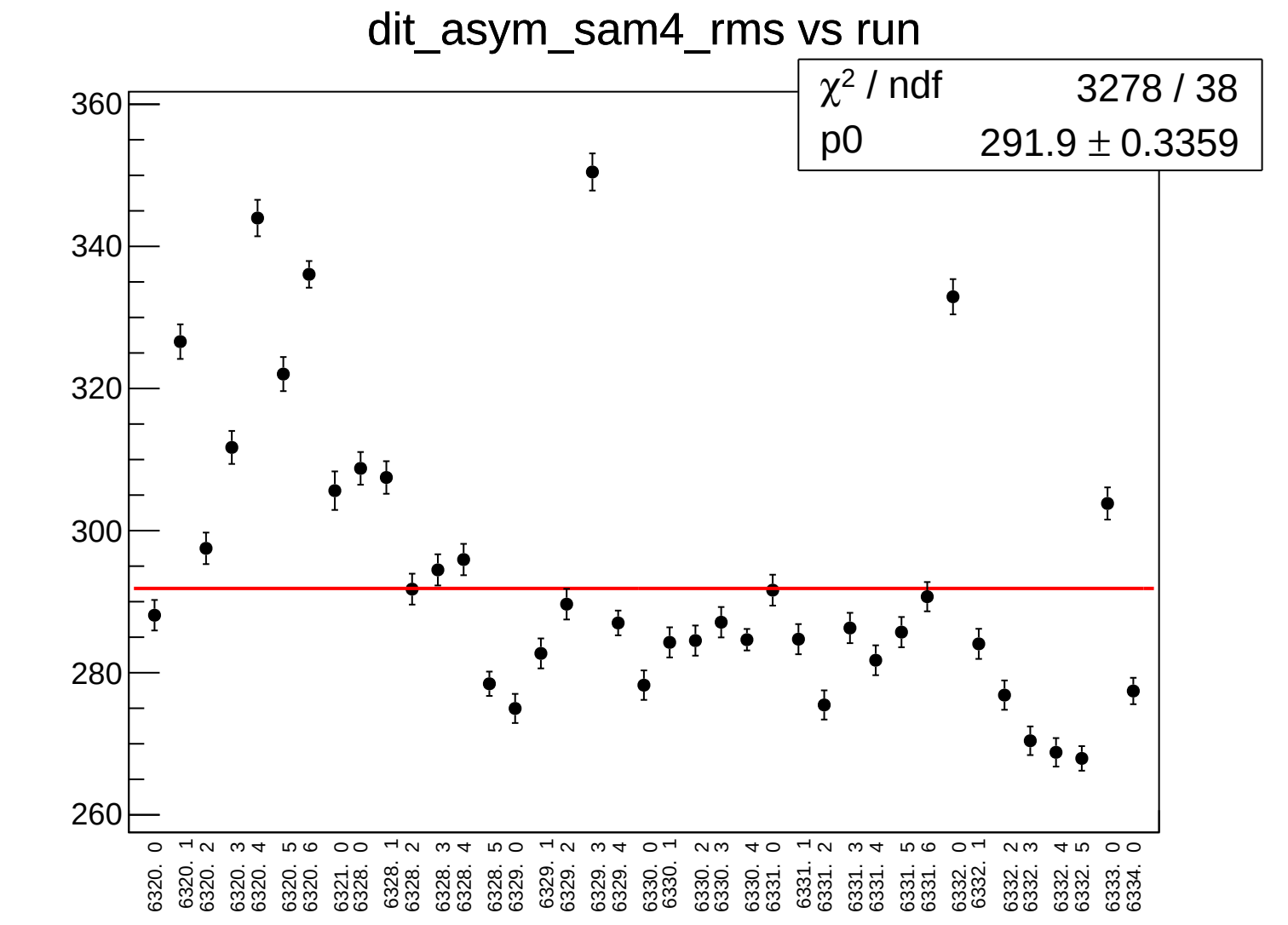

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 37.24 / 38
p0 −3203 ± 4102
pull
Entries 39
Mean −95.59
Std Dev 0

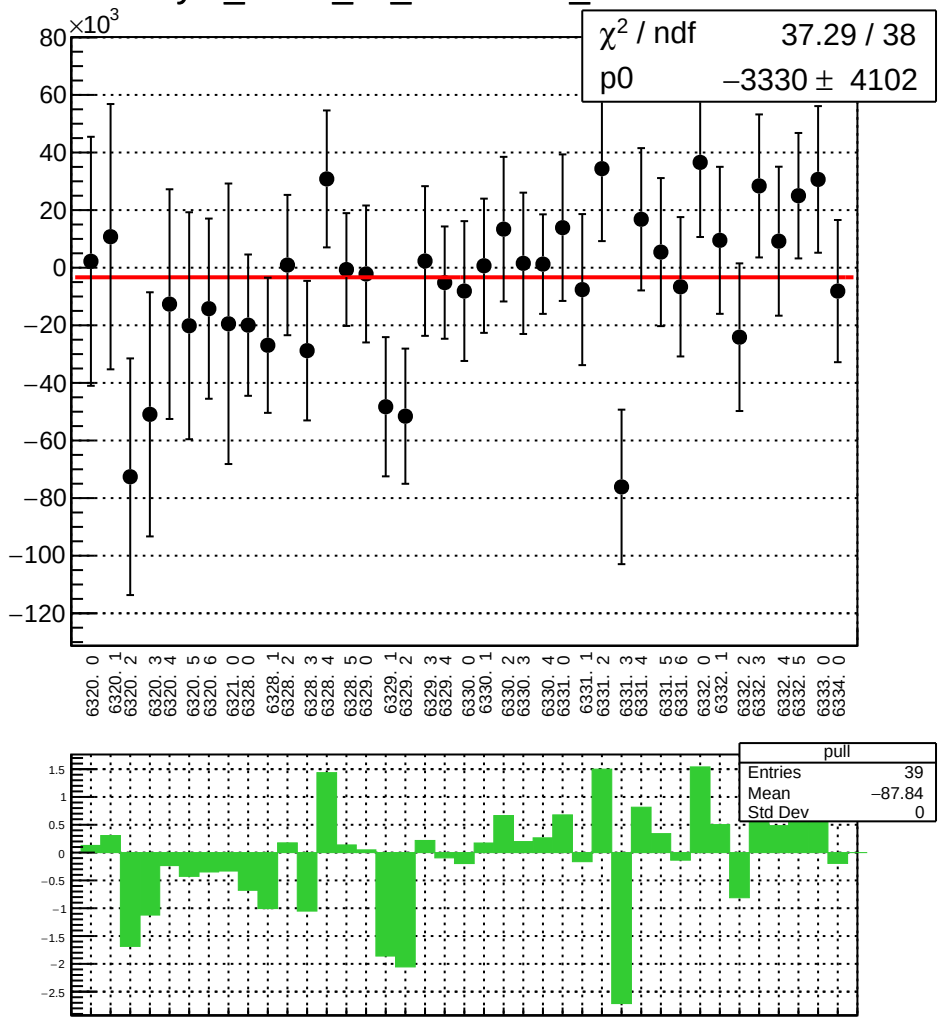

pull1D
Entries 39
Mean −0.03845
Std Dev 0.9764

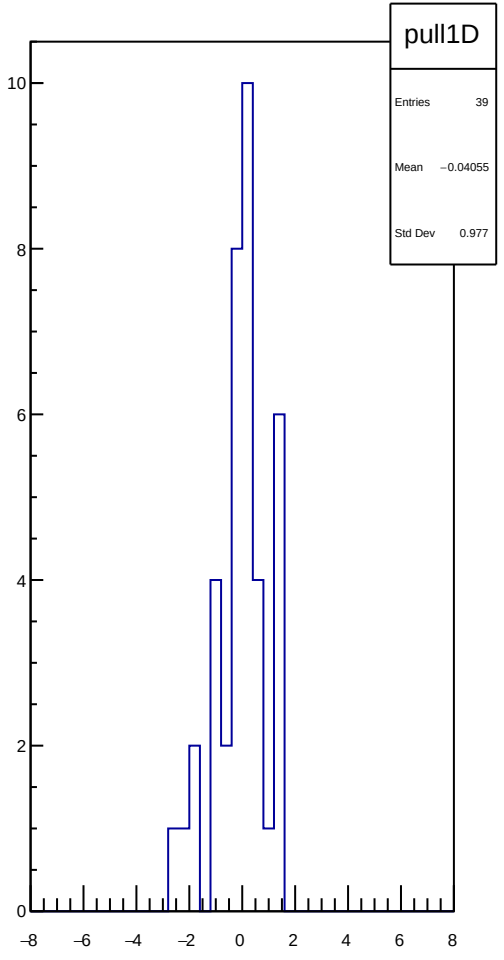

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2.305e+04 / 38
p0 2487 ± 2.9
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

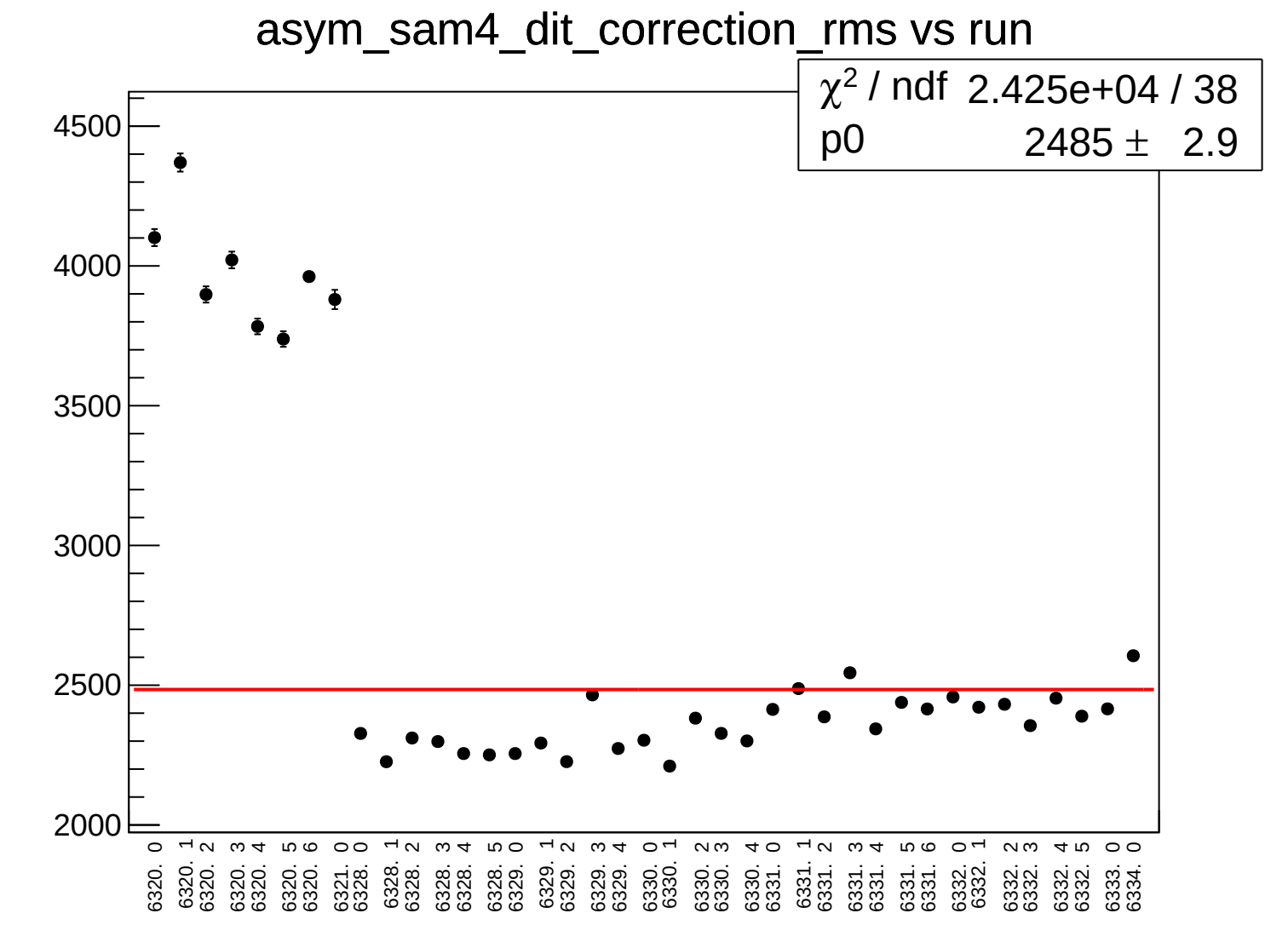

dit_asym_sam4_mean vs run
χ² / ndf 33.5 / 38
p0 161.4 ± 475.1
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.88
Std Dev 0
2
1
0
−1
−2

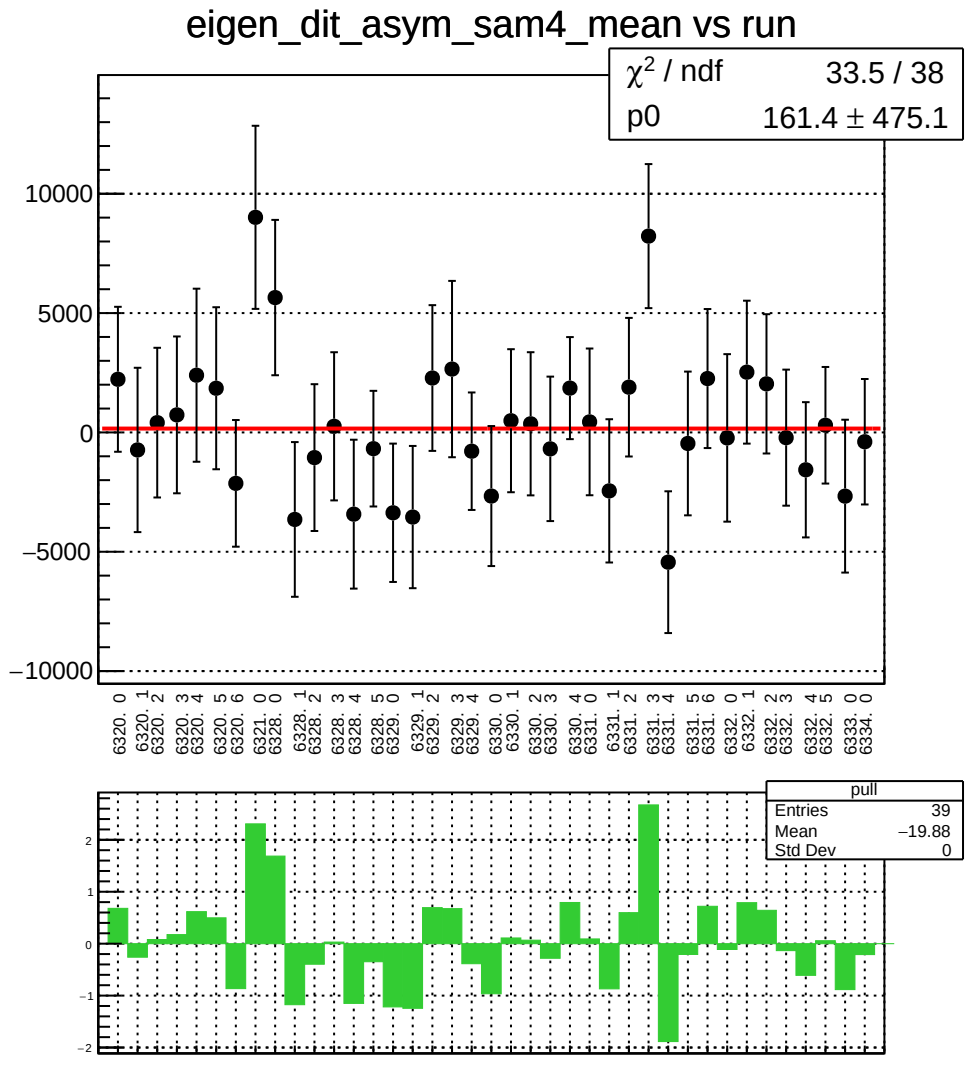

pull1D
Entries 39
Mean 0.02012
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

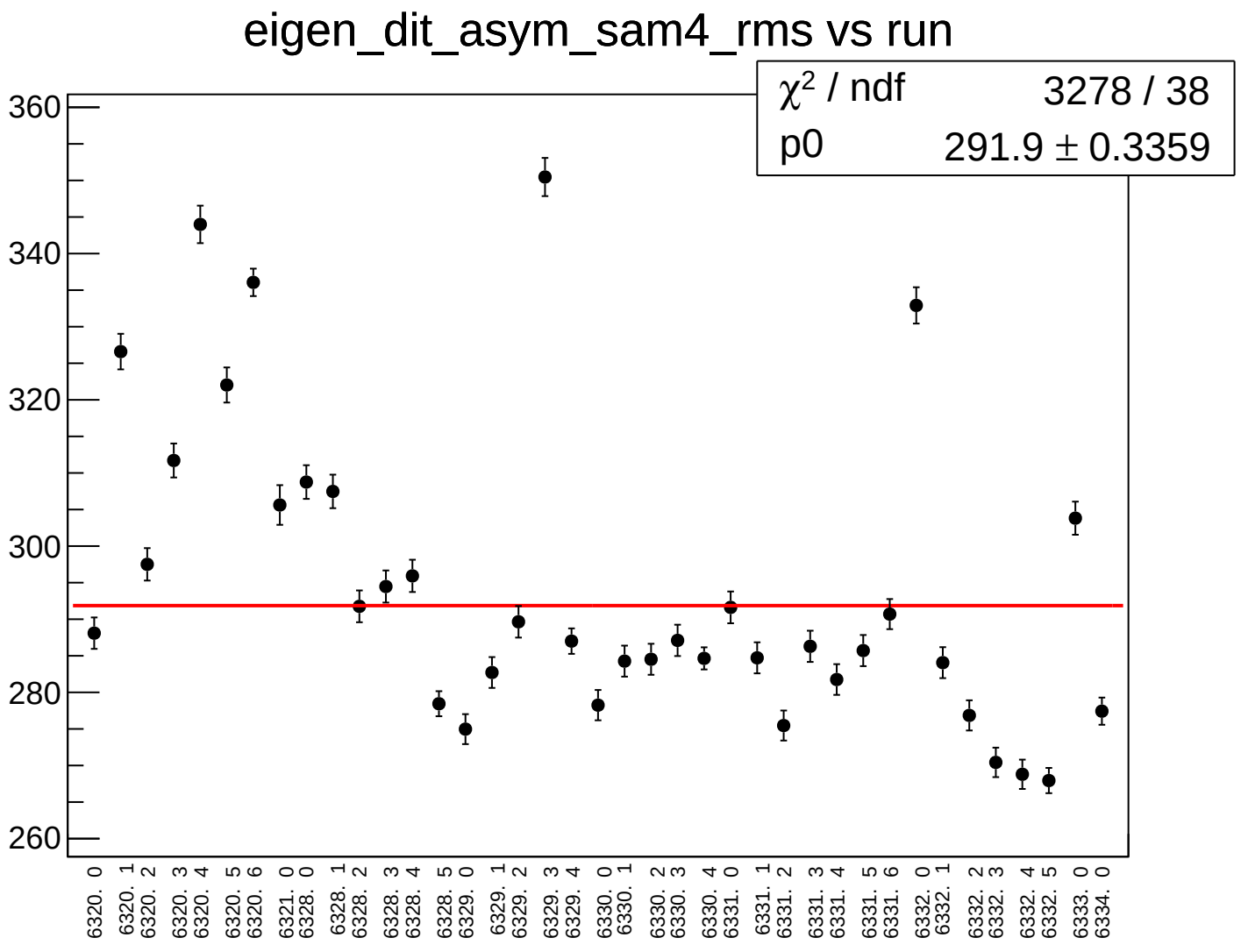

dit_asym_sam4_rms vs run
χ² / ndf 3278 / 38
p0 291.9 ± 0.3359
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

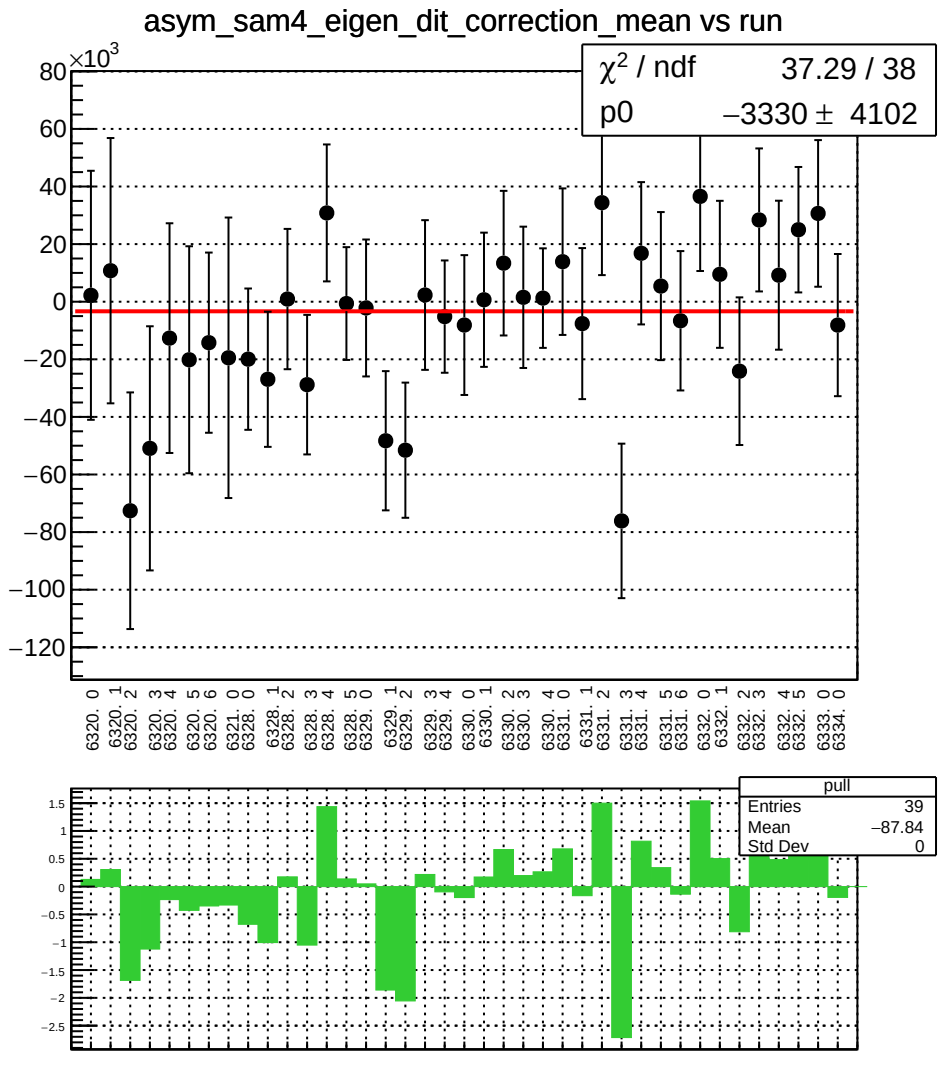

asym_sam4_dit_correction_mean vs run
χ^2 / ndf 37.29 / 38
p0 −3330 ± 4102
×10^3
pull
Entries 39
Mean −87.84
Std Dev 0

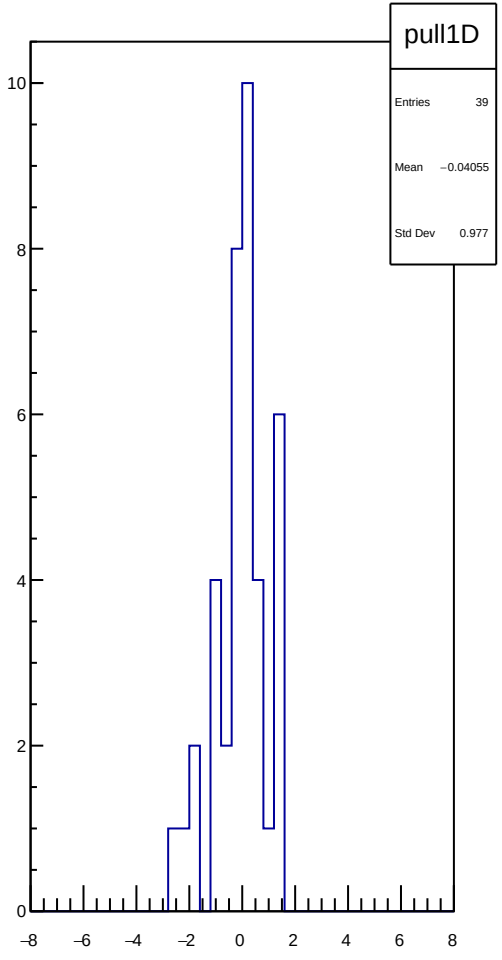

pull1D
Entries 39
Mean −0.04055
Std Dev 0.977

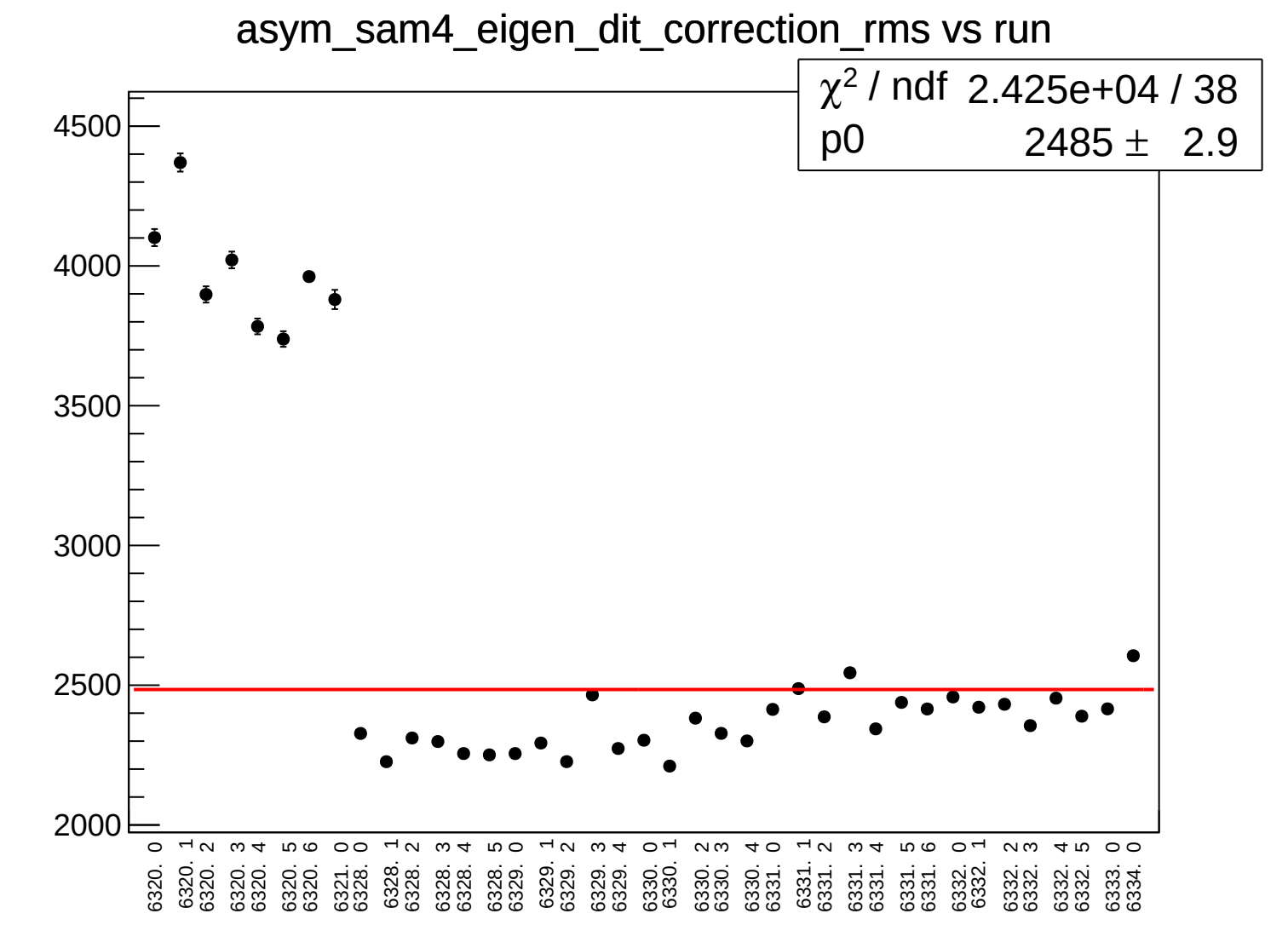

asym_sam4_dit_correction_rms vs run
χ² / ndf 2.425e+04 / 38
p0 2485 ± 2.9
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

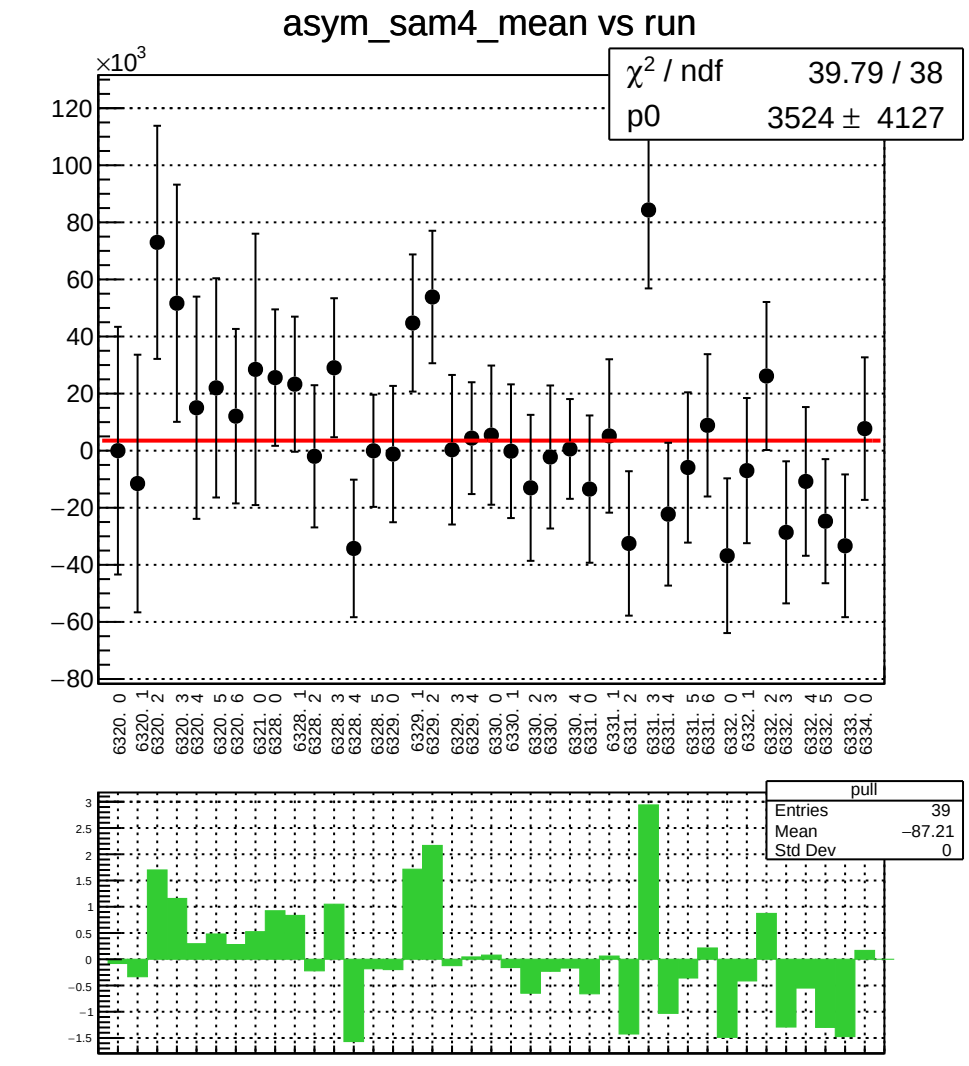

eigen_dit_asym_sam4_mean vs run
χ² / ndf 33.5 / 38
p0 161.4 ± 475.1
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02012
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

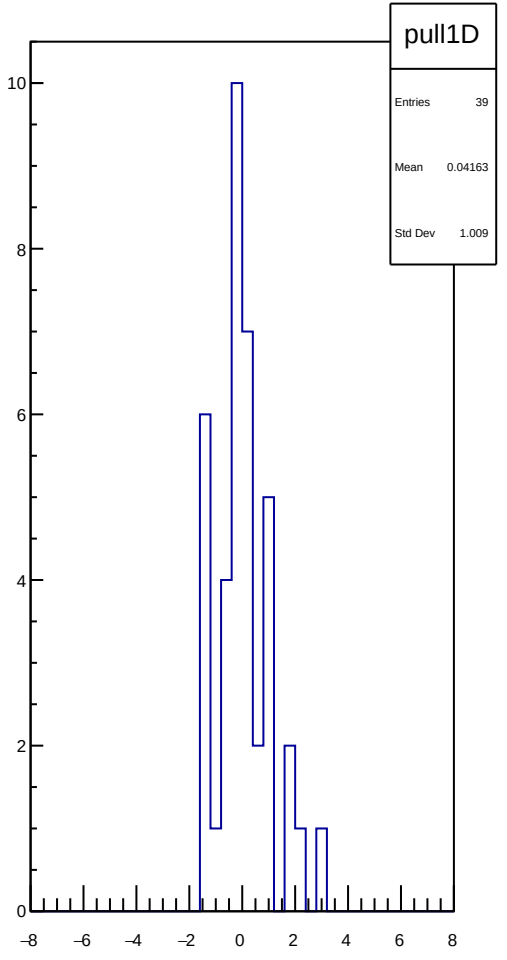

eigen_dit_asym_sam4_rms vs run
χ² / ndf 3278 / 38
p0 291.9 ± 0.3359
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

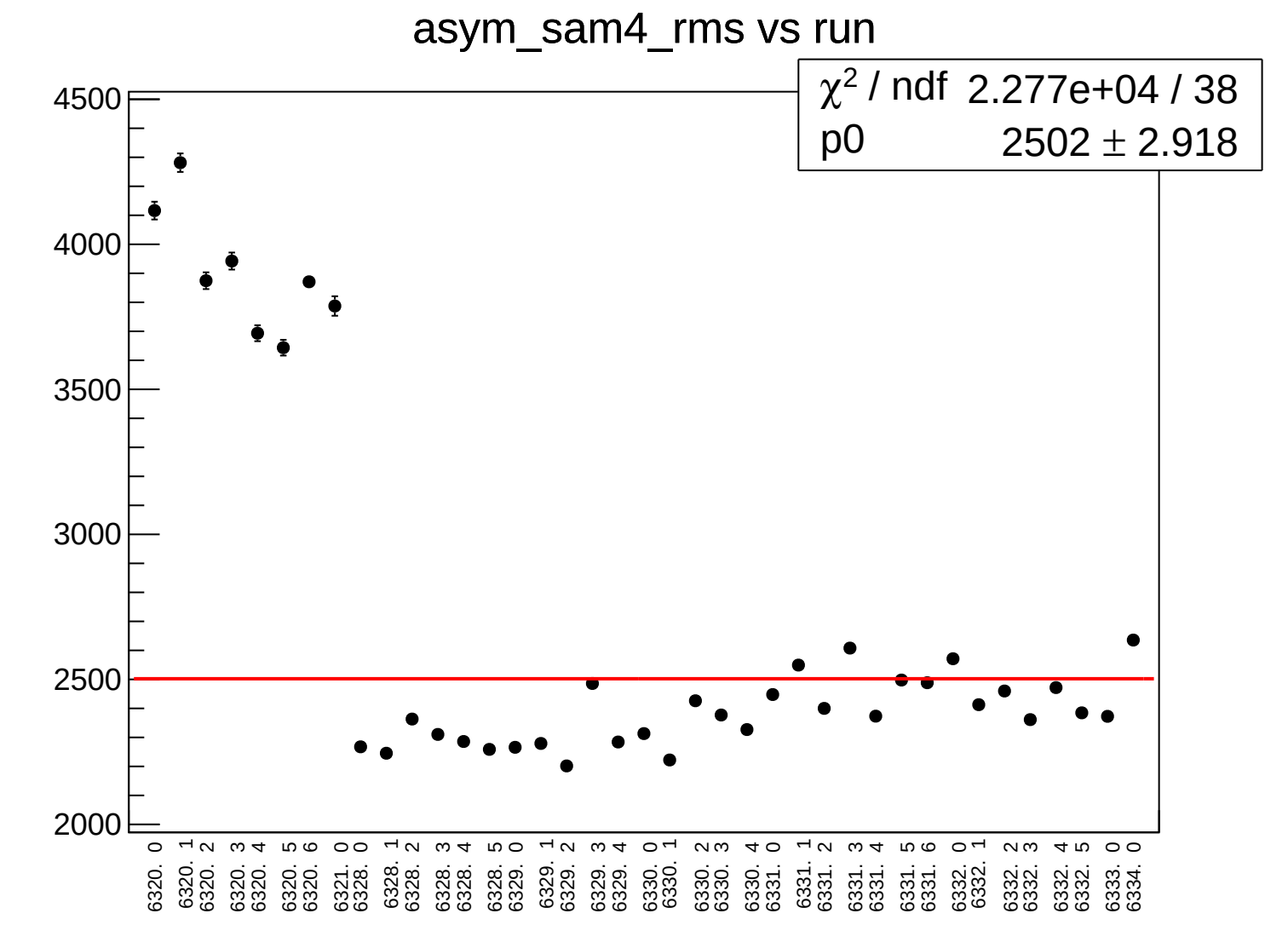

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 37.29 / 38
p0 −3330 ± 4102
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

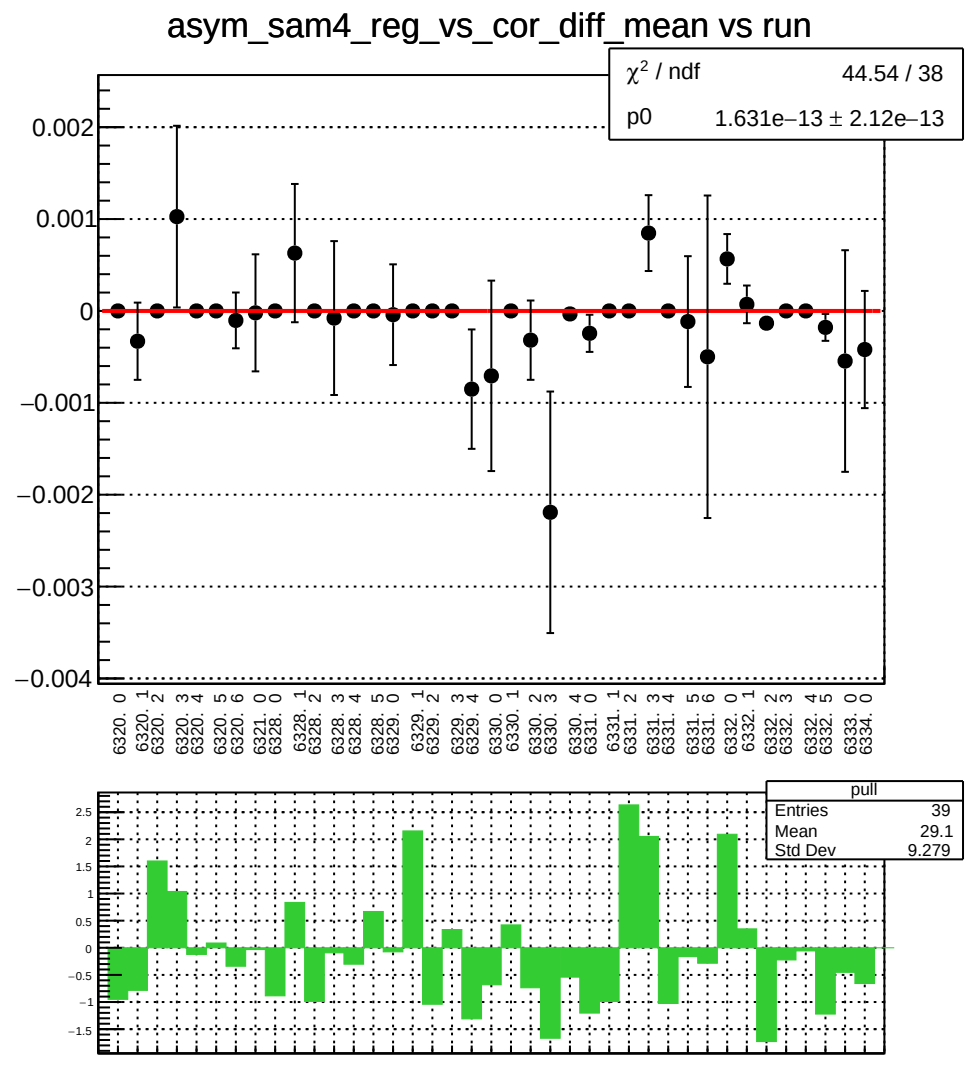

pull1D
Entries 39
Mean −0.04055
Std Dev 0.977
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

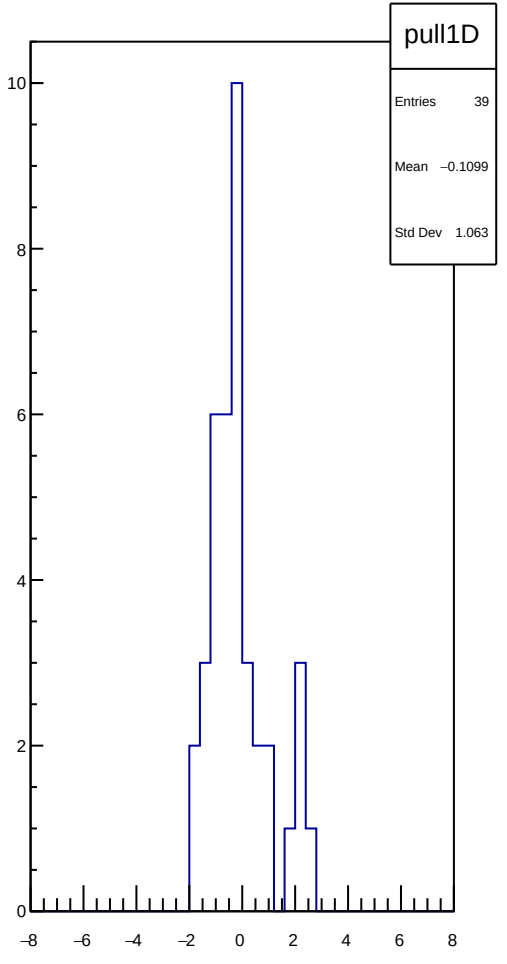

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2.425e+04 / 38
p0 2485 ± 2.9
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

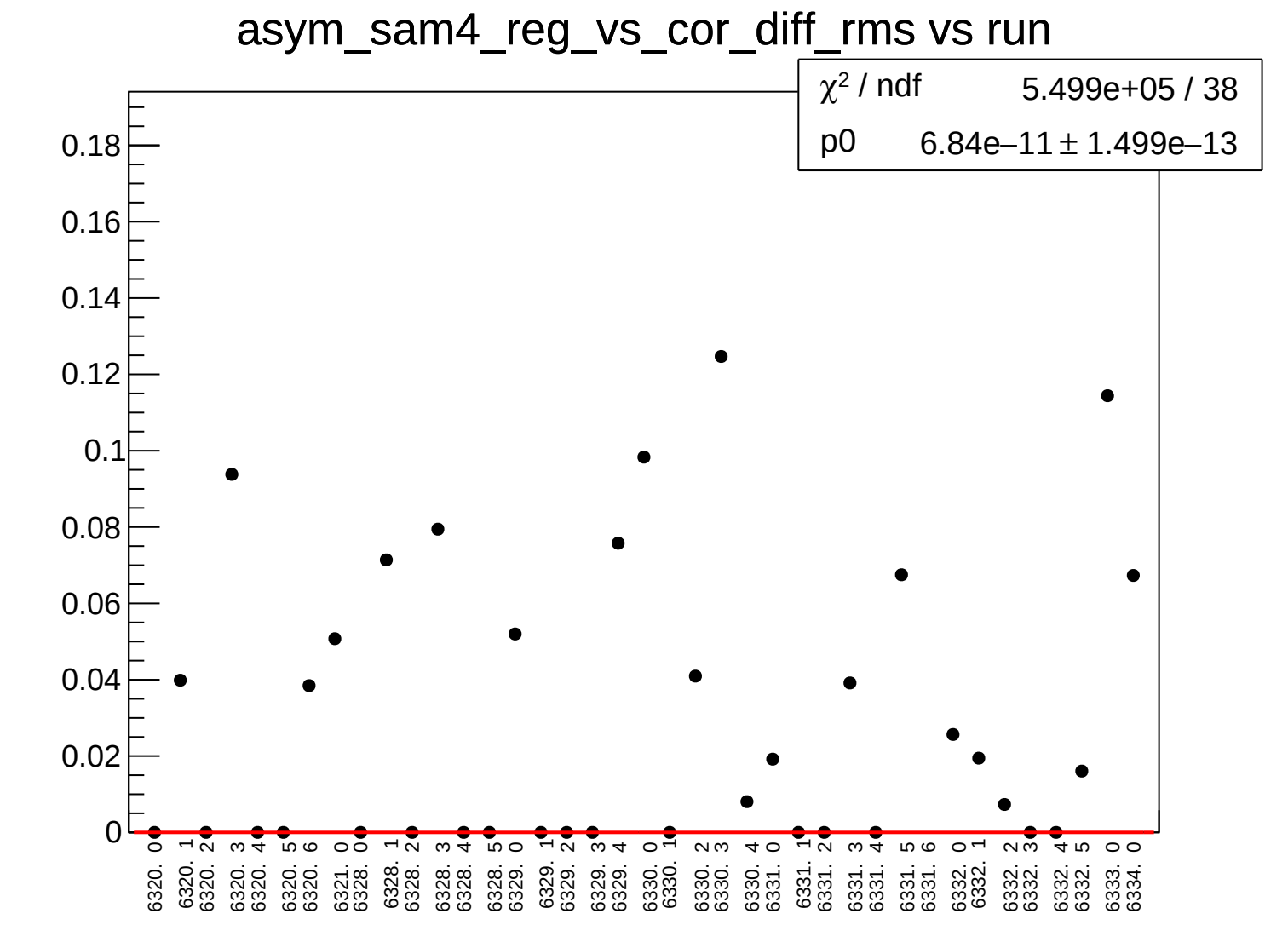

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.79 / 38
p0 3524 ± 4127
120
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.21
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

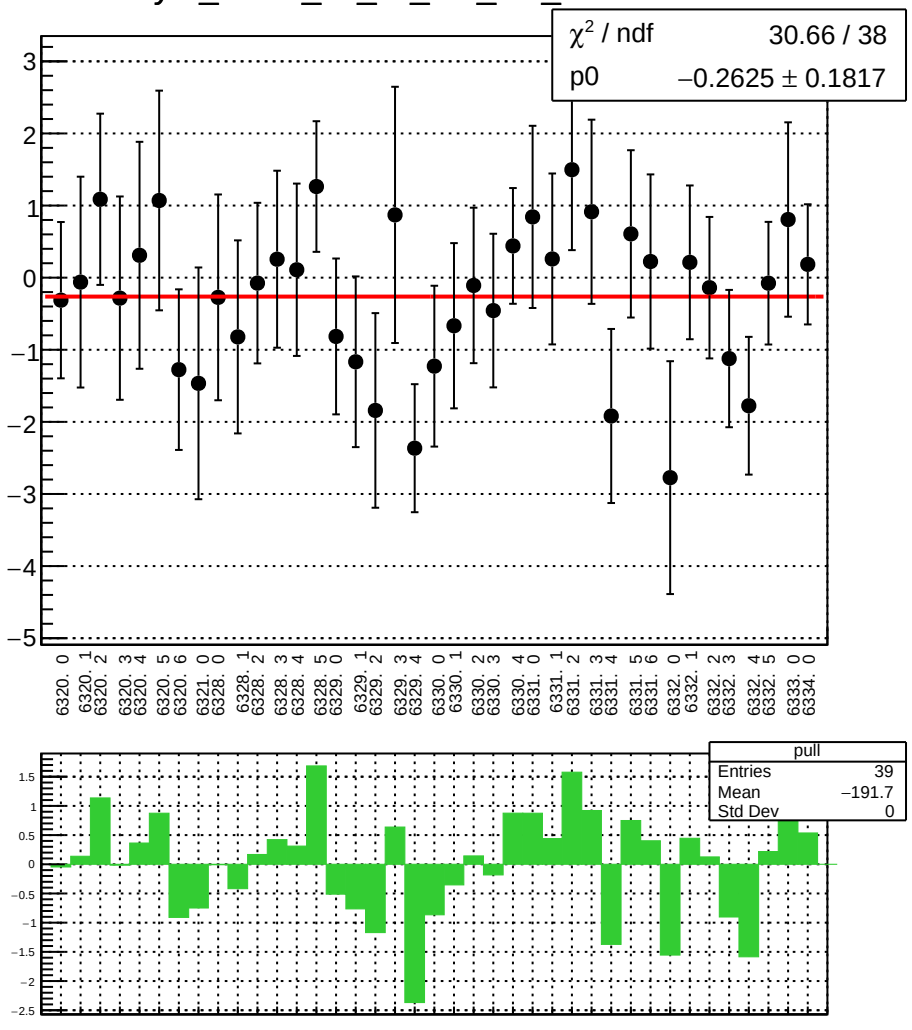

pull1D
Entries 39
Mean 0.04163
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

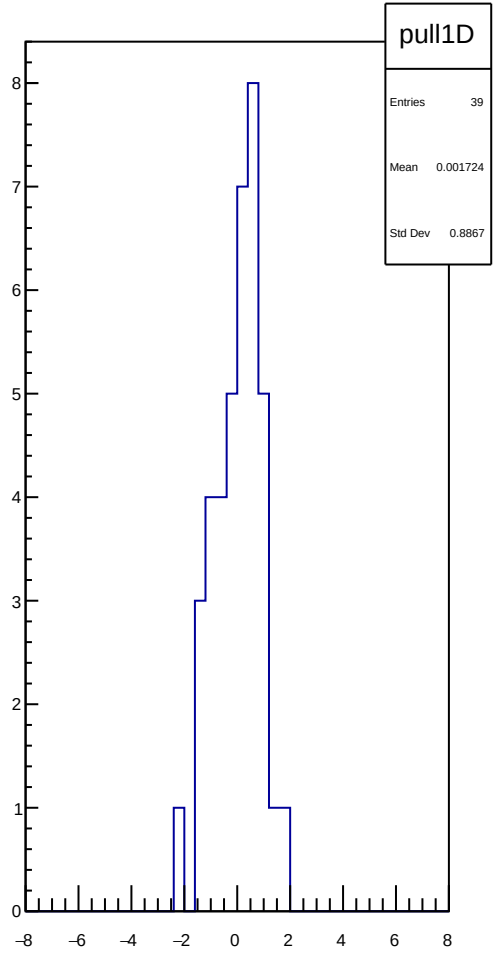

asym_sam4_rms vs run
χ² / ndf 2.277e+04 / 38
p0 2502 ± 2.918
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

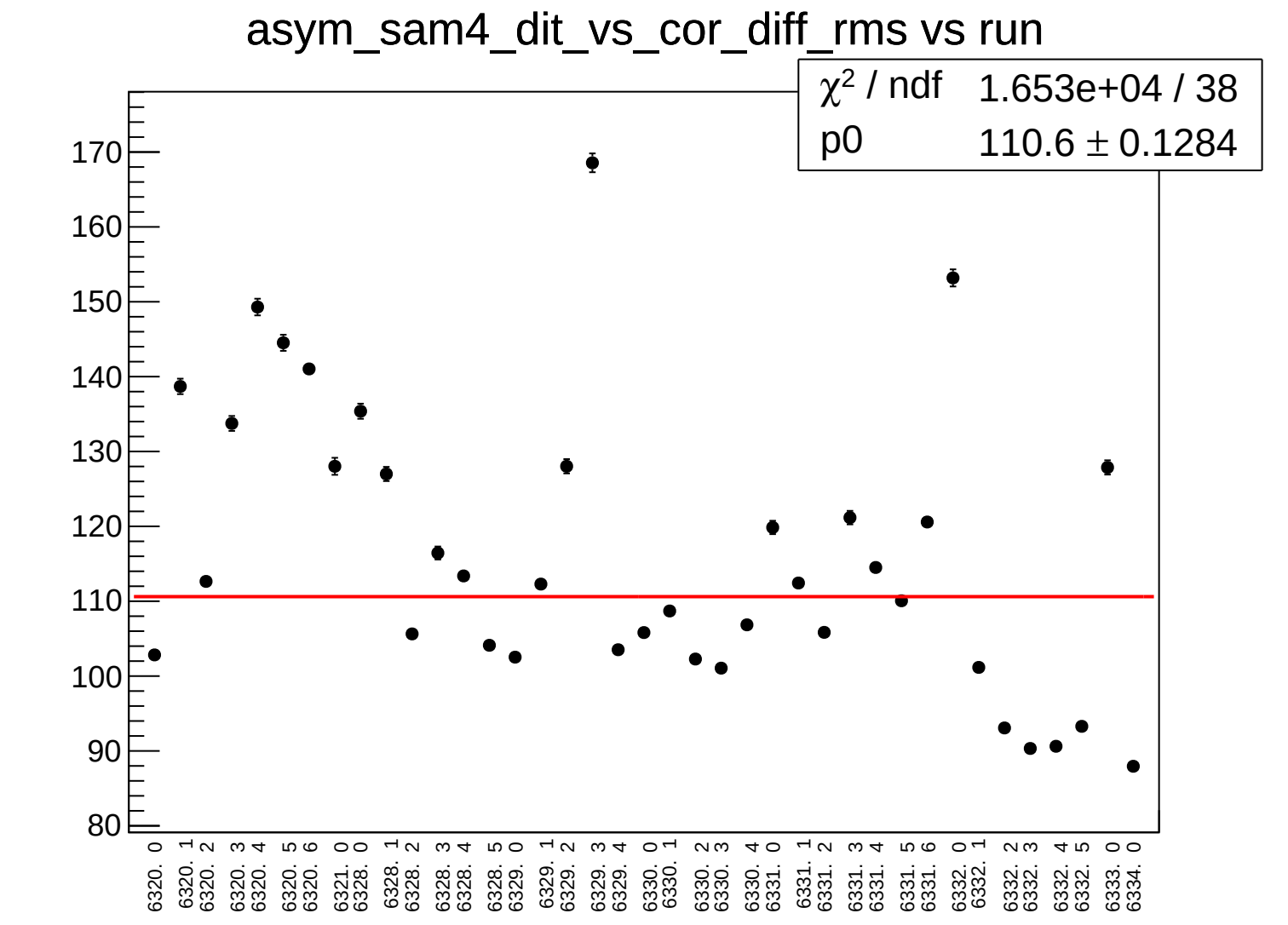

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 44.54 / 38
p0 1.631e−13 ± 2.12e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 29.1
Std Dev 9.279
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

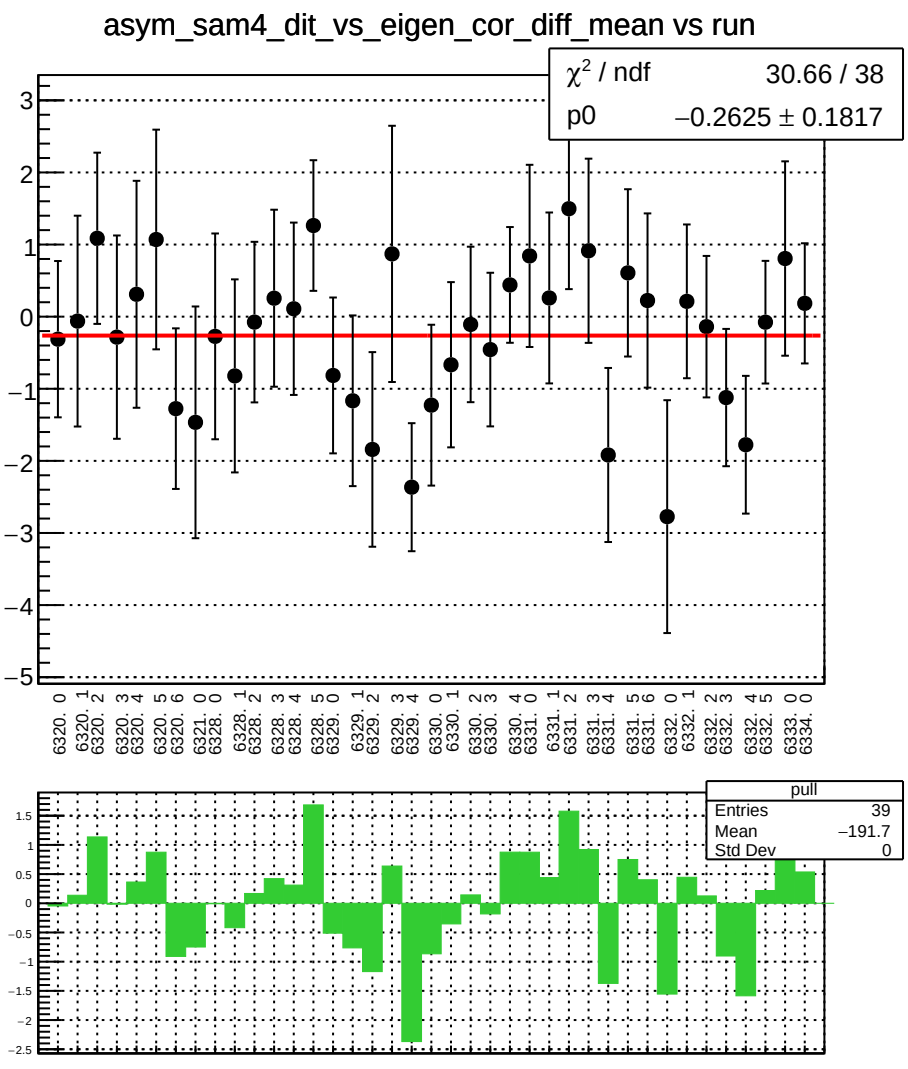

pull1D
Entries 39
Mean −0.1099
Std Dev 1.063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

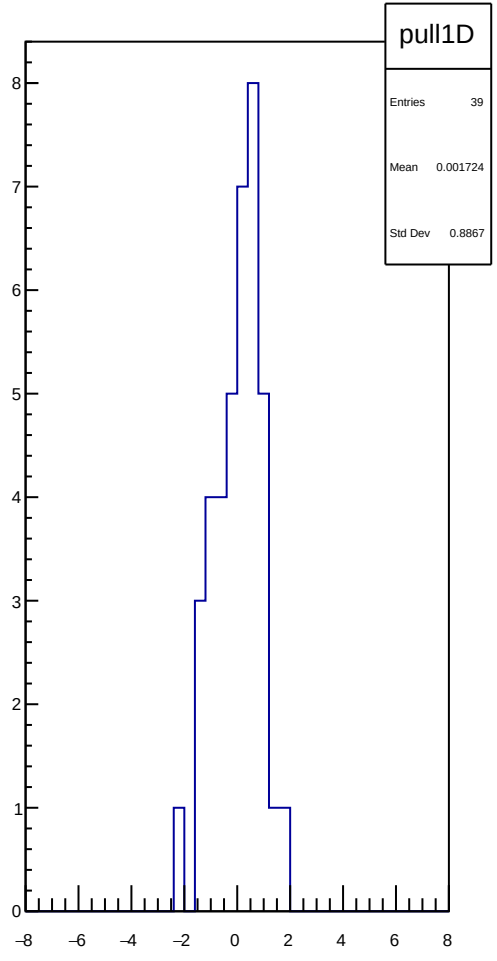

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 5.499e+05 / 38
p0 6.84e−11 ± 1.499e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

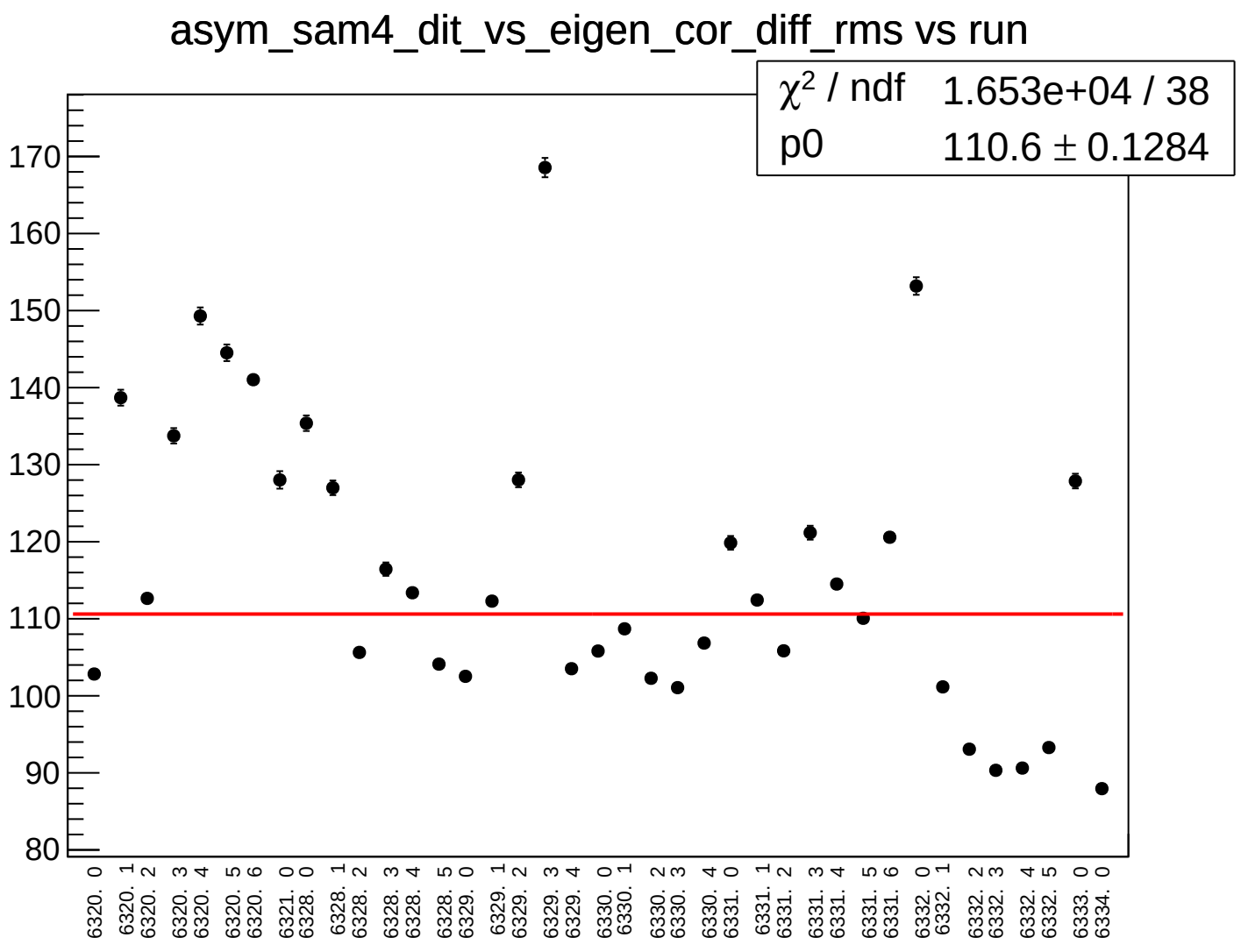

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 30.66 / 38
p0 −0.2625 ± 0.1817
pull
Entries 39
Mean −191.7
Std Dev 0

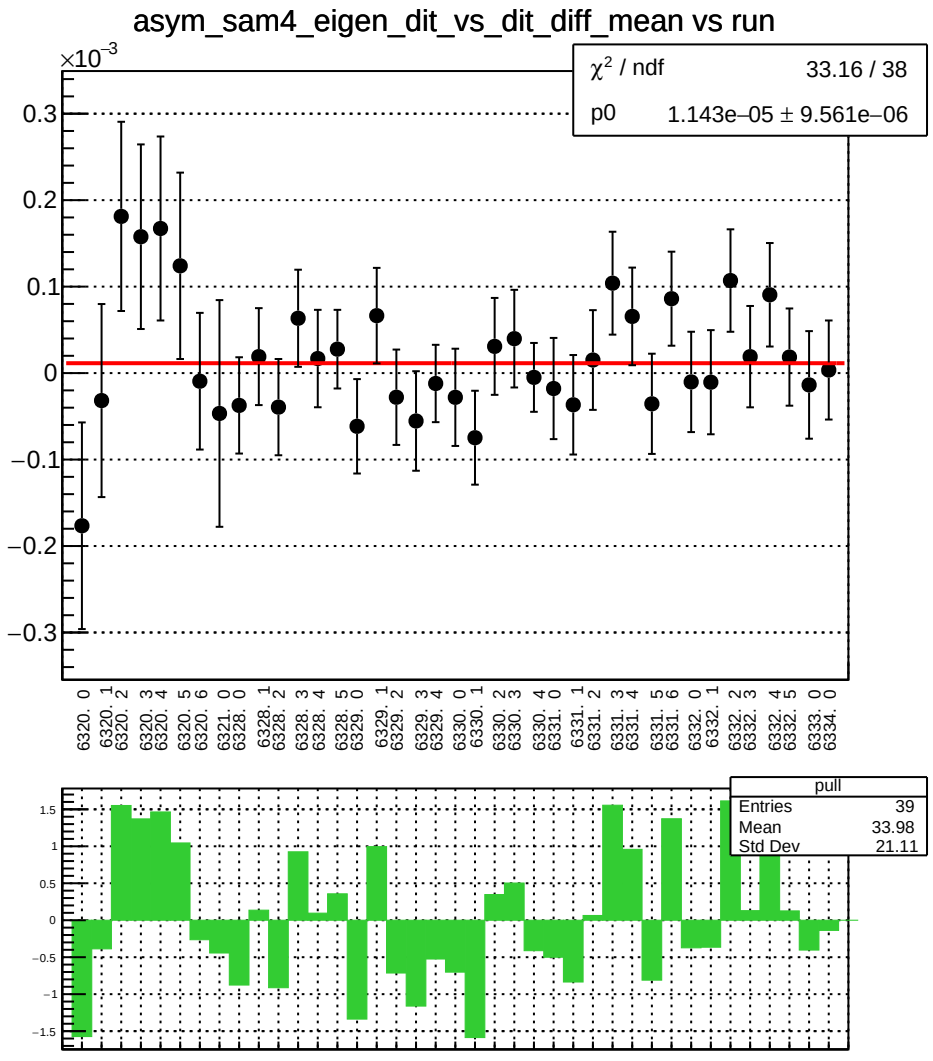

pull1D
Entries 39
Mean 0.001724
Std Dev 0.8867

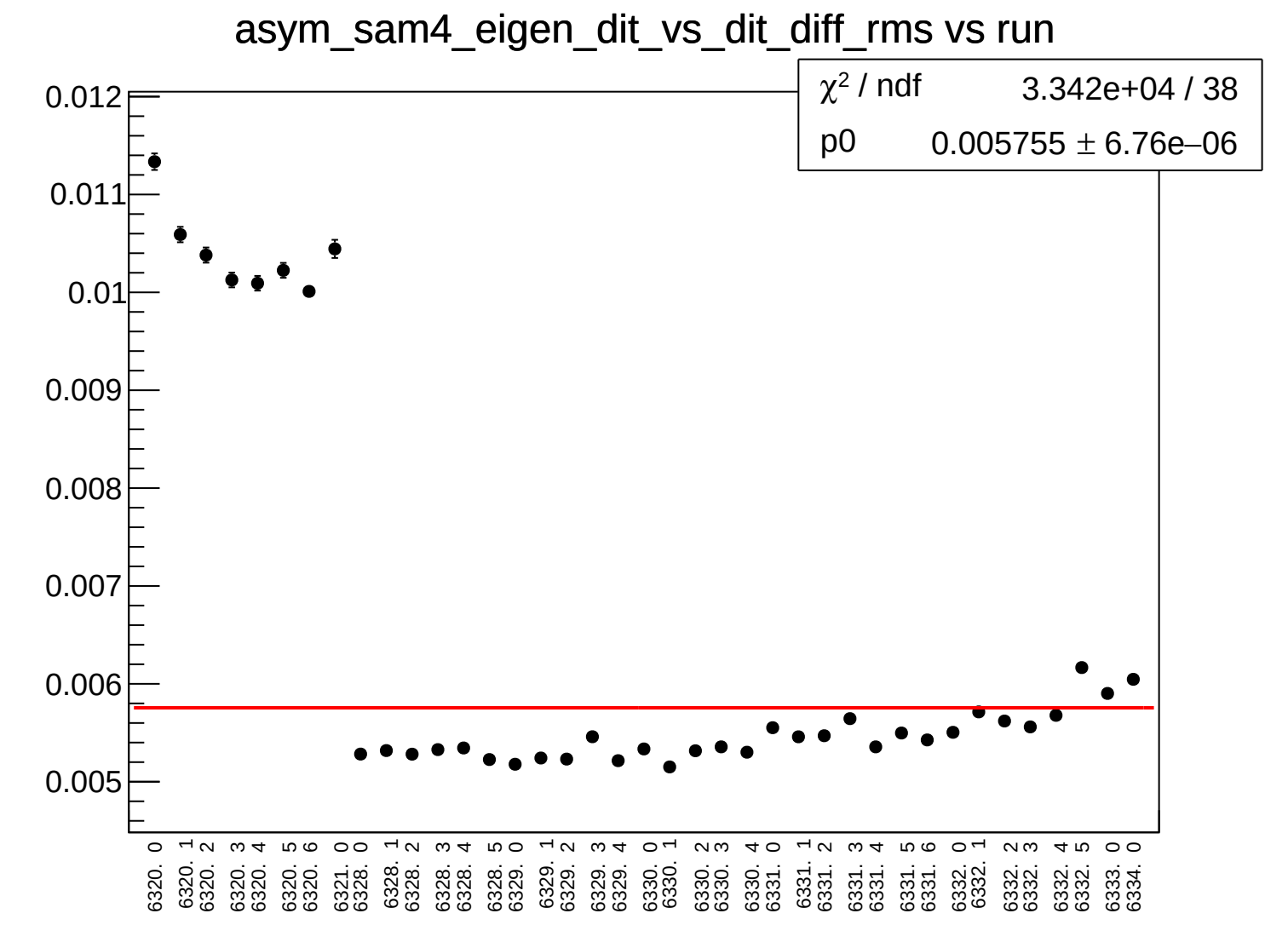

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 38
p0 110.6 ± 0.1284
170
160
150
140
130
120
110
100
90
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

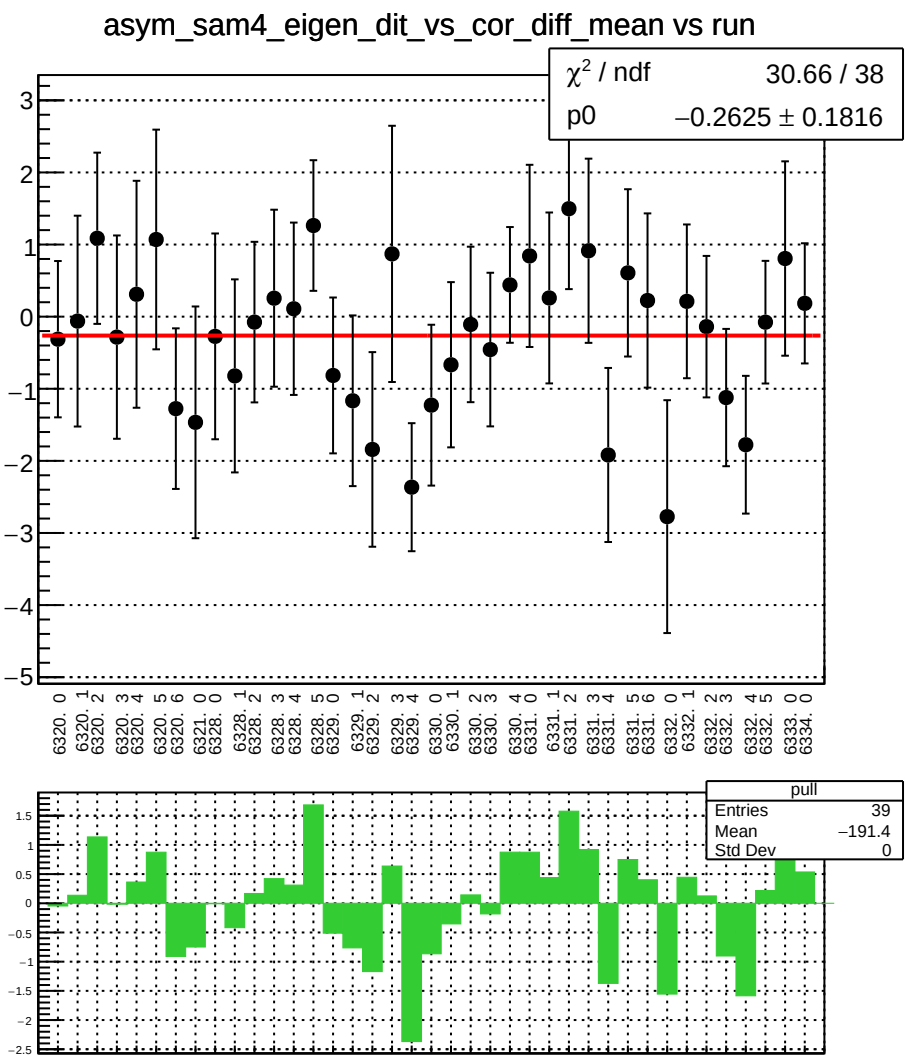

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.66 / 38
p0 −0.2625 ± 0.1817
pull
Entries 39
Mean −191.7
Std Dev 0

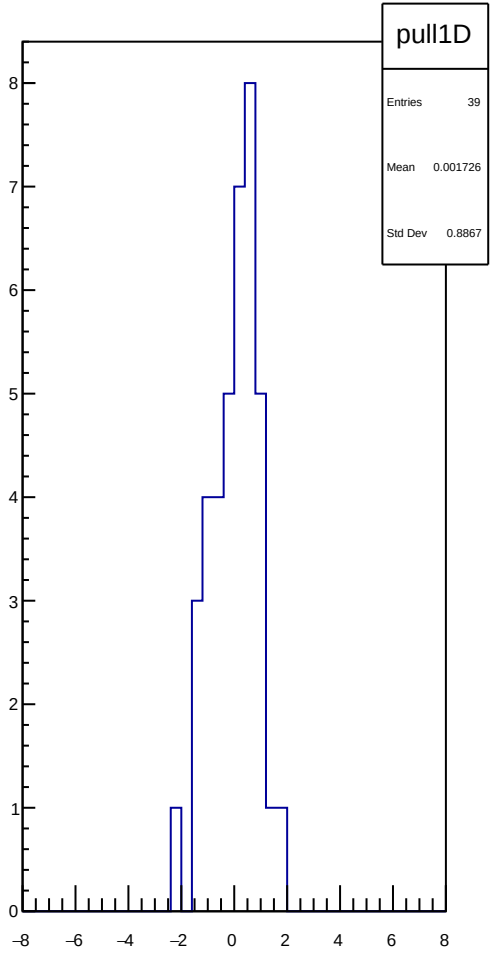

pull1D
Entries 39
Mean 0.001724
Std Dev 0.8867

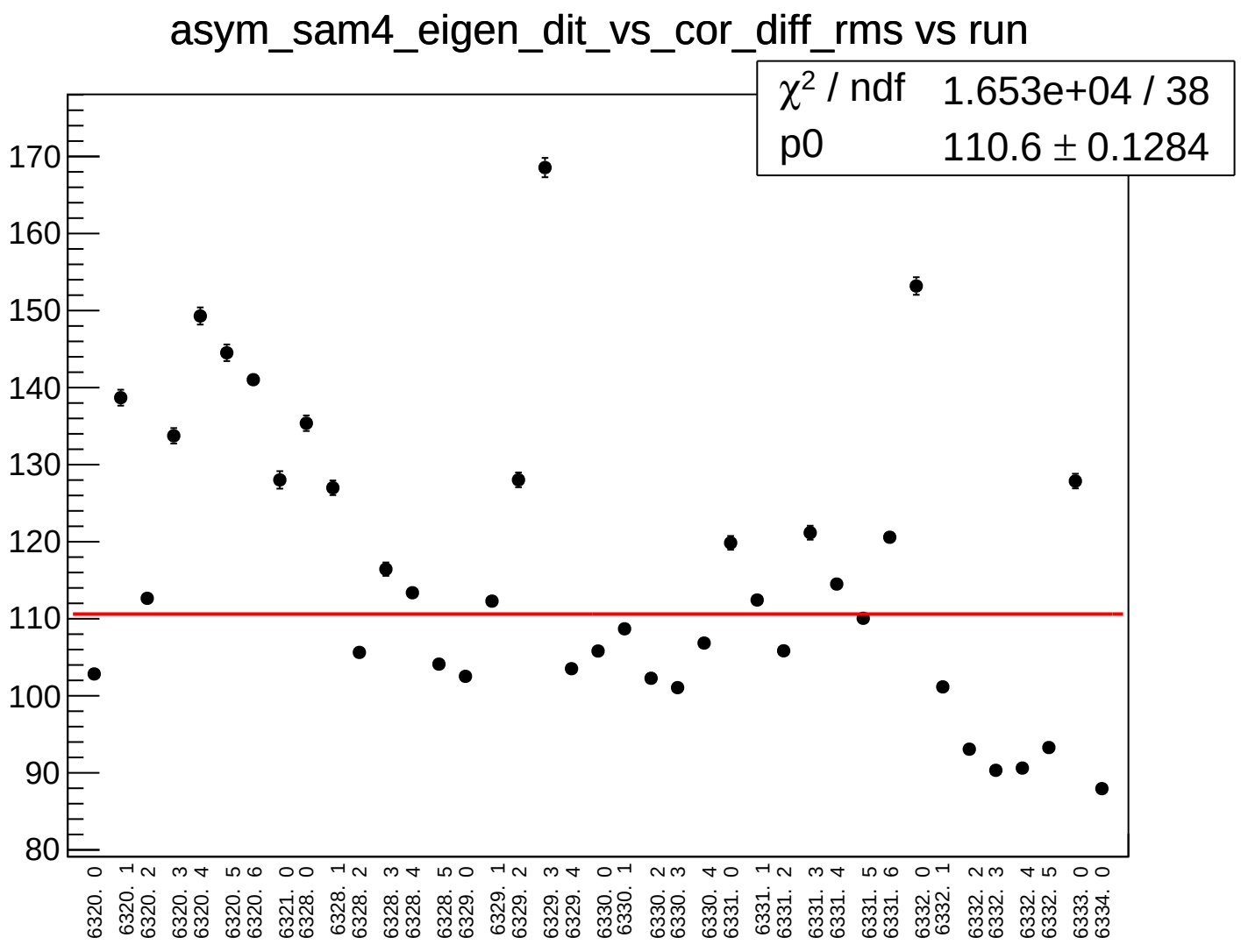

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 38
p0 110.6 ± 0.1284
170
160
150
140
130
120
110
100
90
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

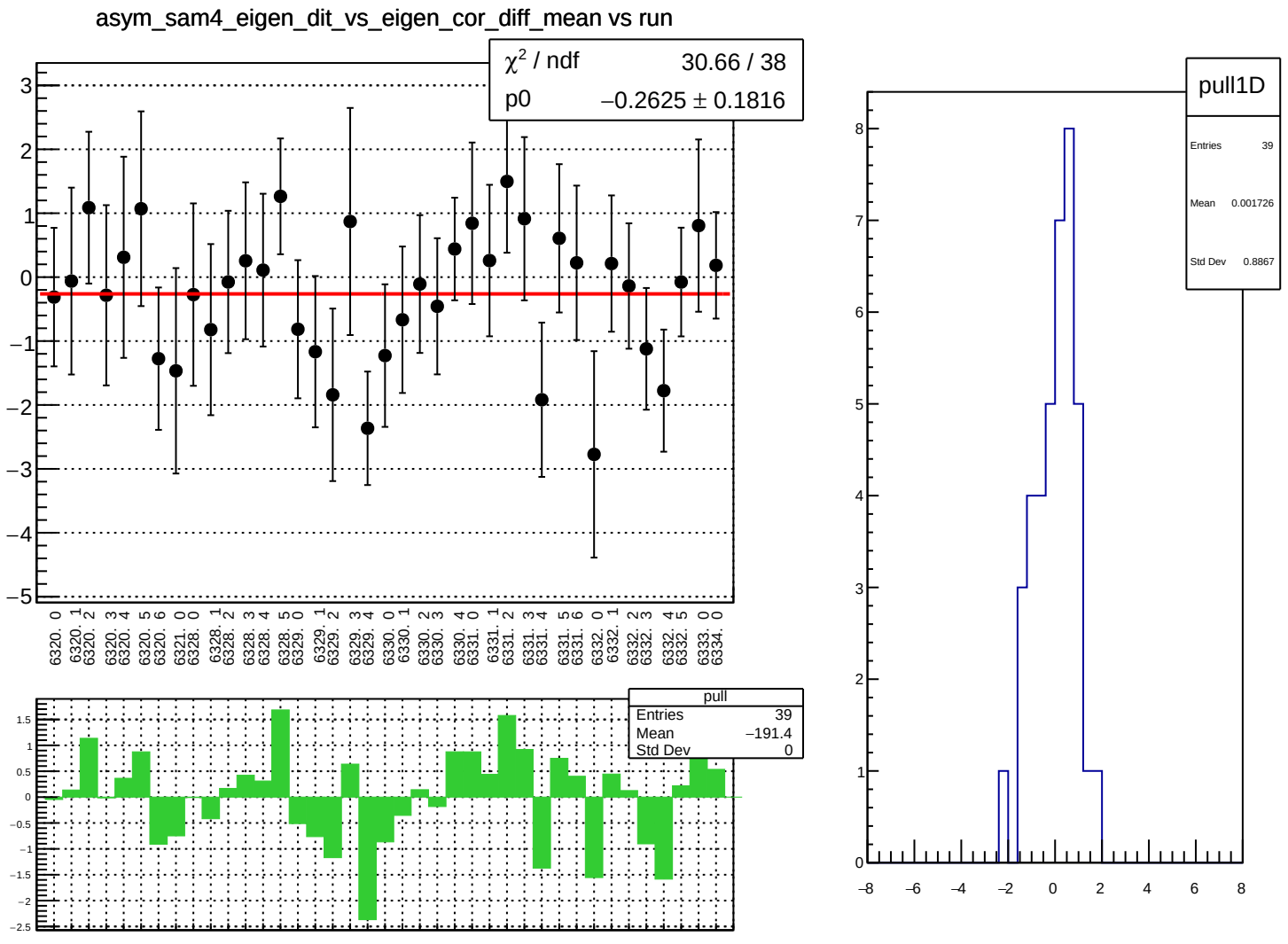

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.16 / 38
p0 1.143e−05 ± 9.561e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 33.98
Std Dev 21.11
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0414
Std Dev 0.9211
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

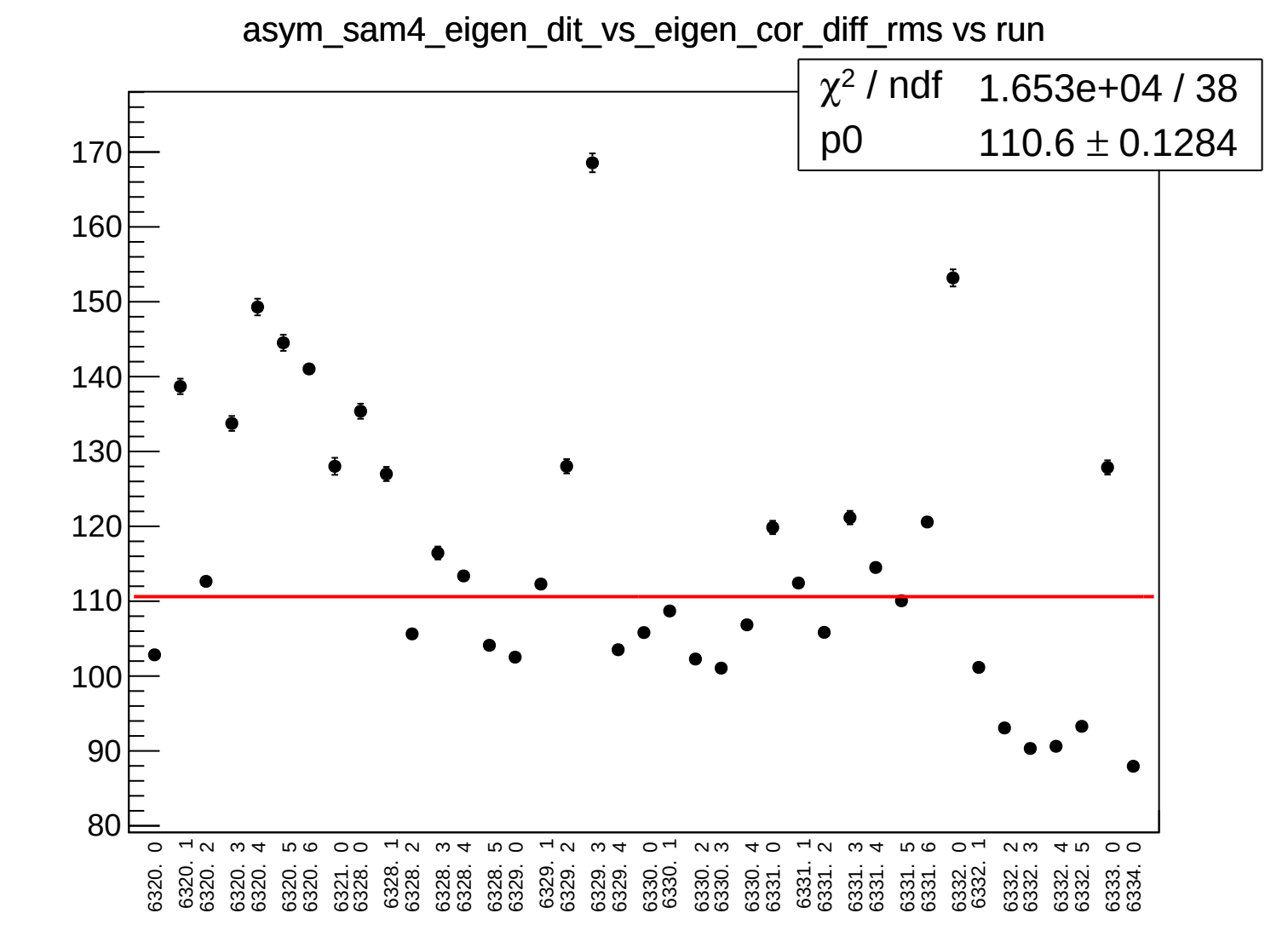

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.342e+04 / 38
p0 0.005755 ± 6.76e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

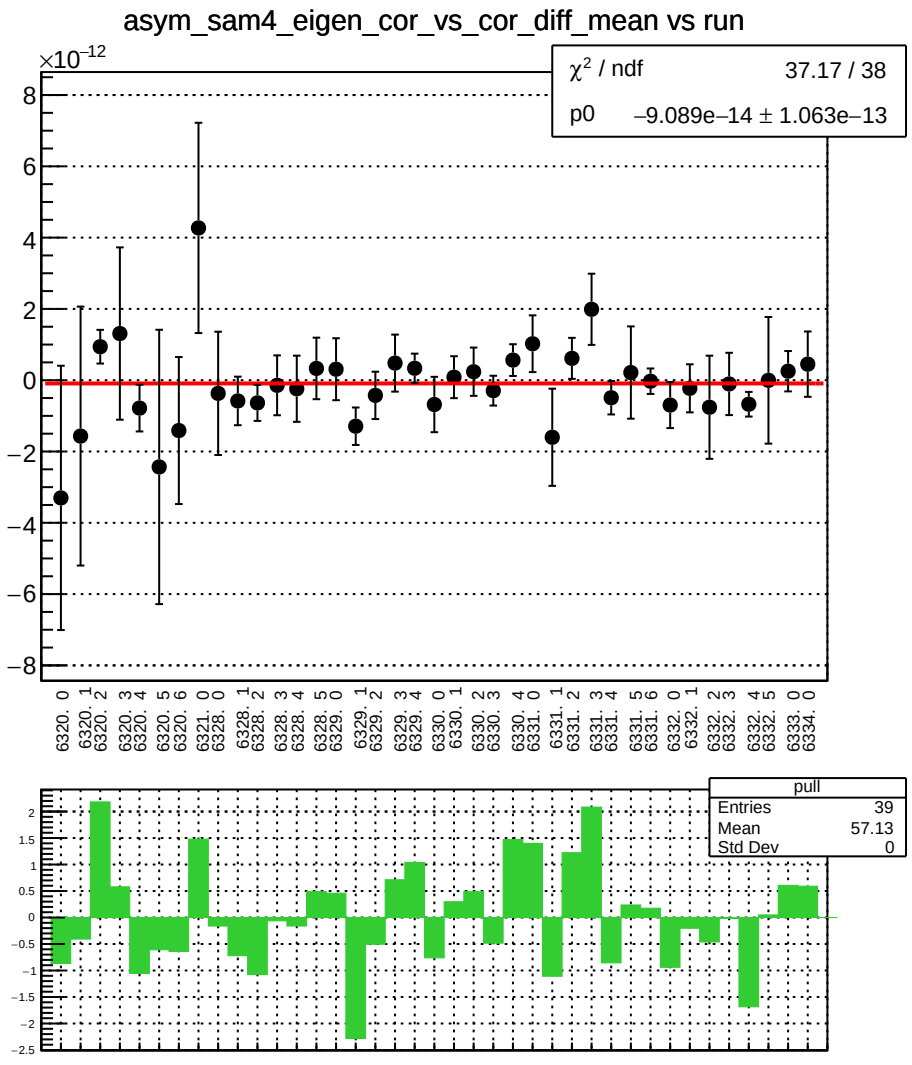

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.66 / 38
p0 −0.2625 ± 0.1816
pull
Entries 39
Mean −191.4
Std Dev 0

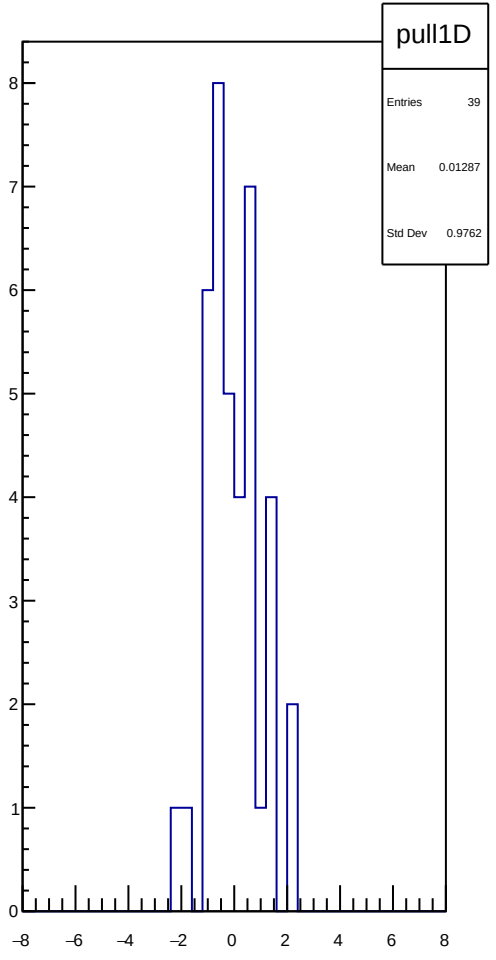

pull1D
Entries 39
Mean 0.001726
Std Dev 0.8867

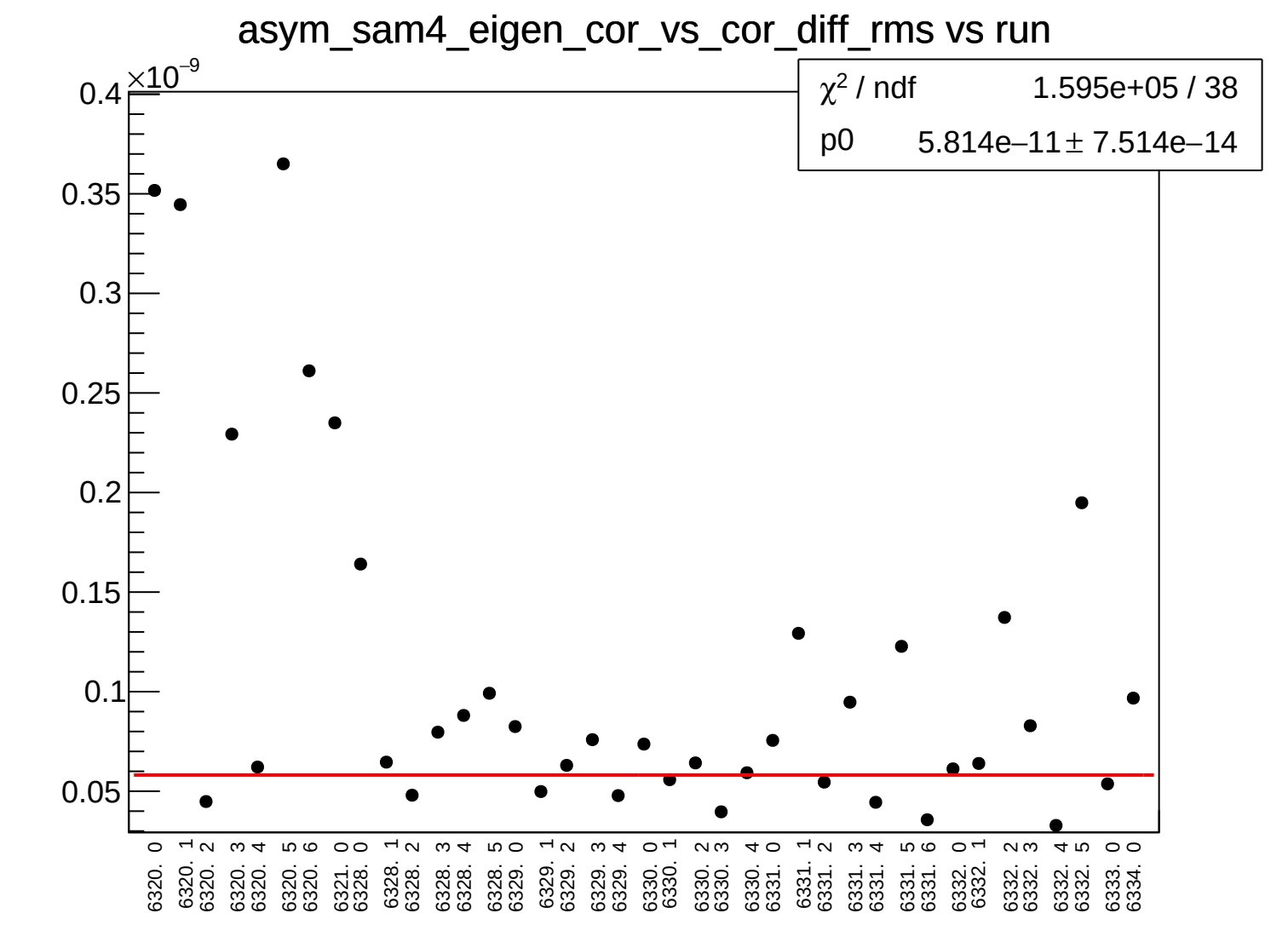

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 38
p0 110.6 ± 0.1284
170
160
150
140
130
120
110
100
90
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

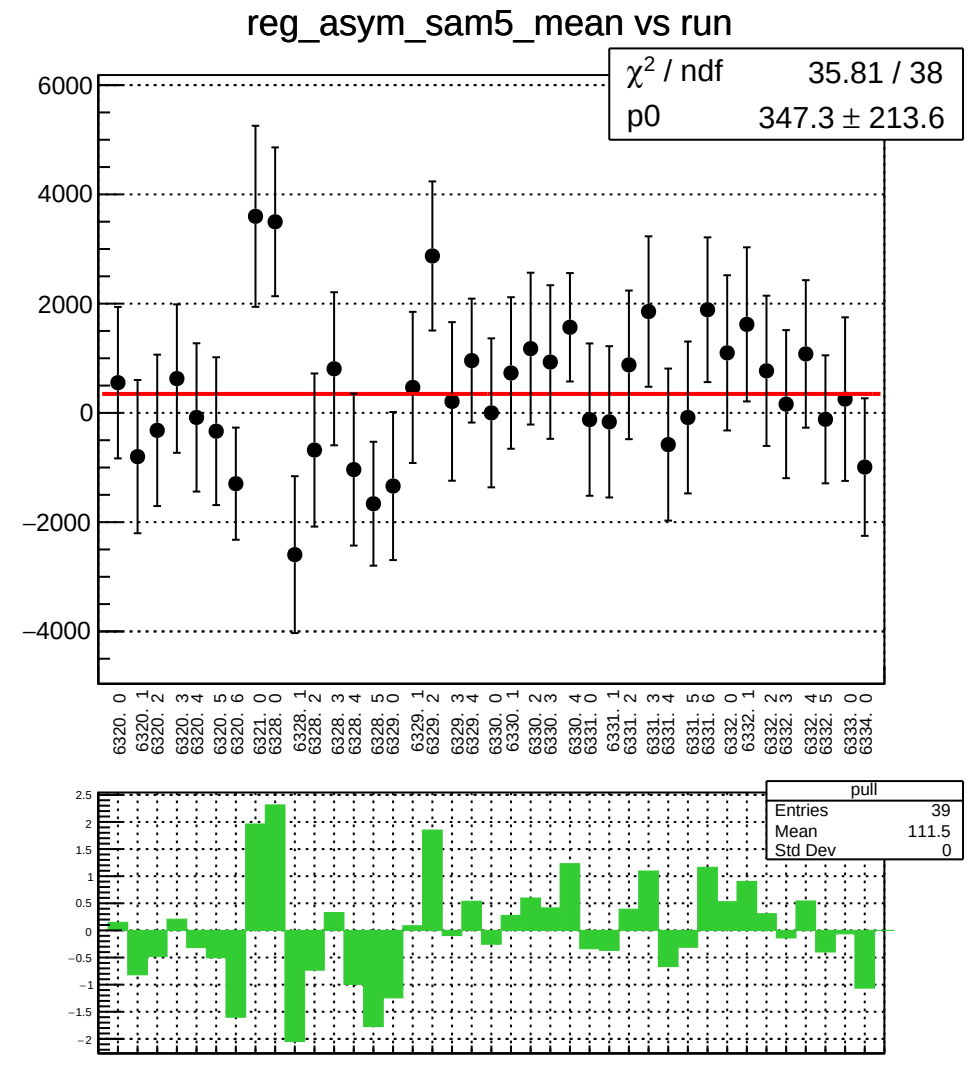

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.66 / 38
p0 −0.2625 ± 0.1816
pull
Entries 39
Mean −191.4
Std Dev 0
pull1D
Entries 39
Mean 0.001726
Std Dev 0.8867

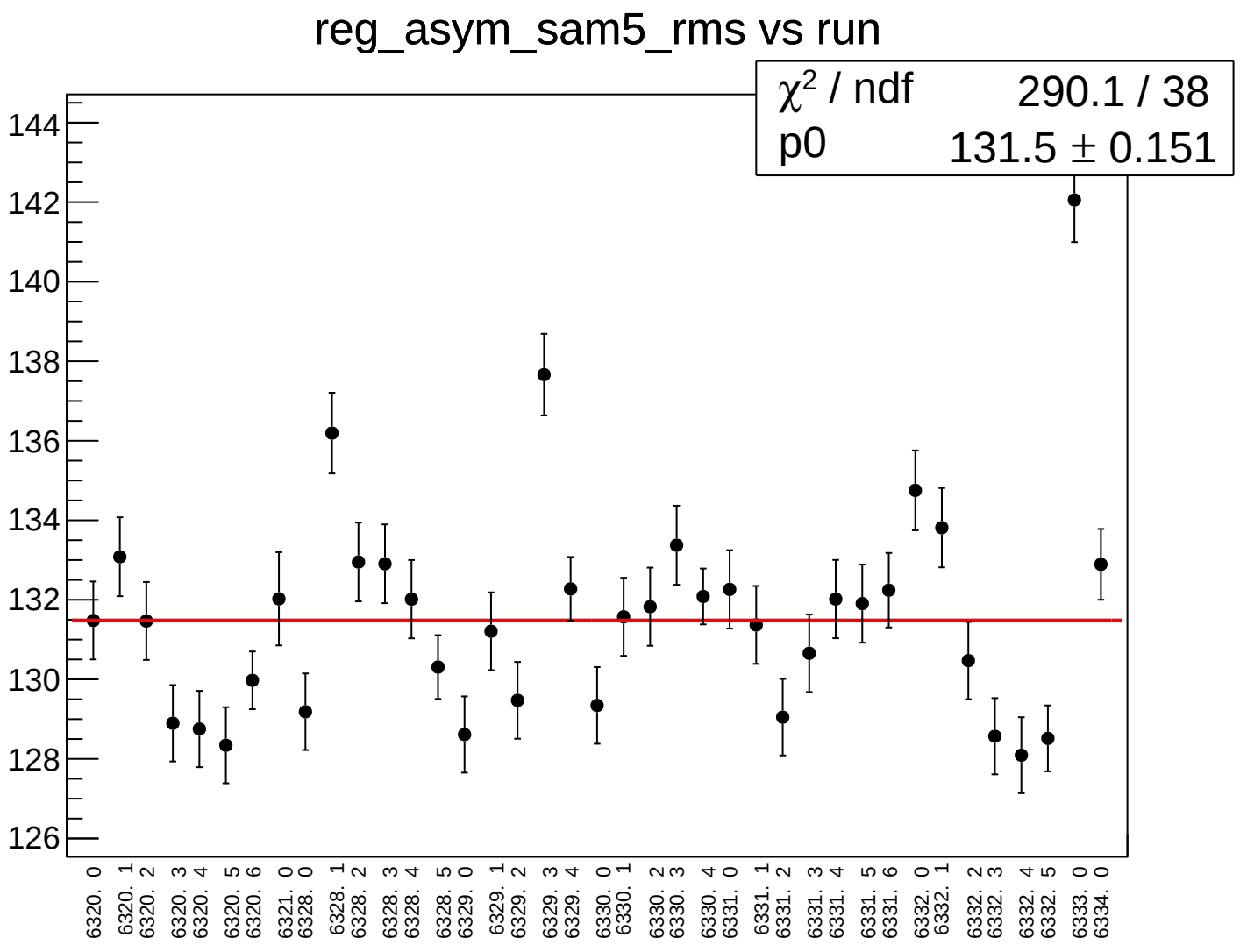

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 38
p0 110.6 ± 0.1284
170
160
150
140
130
120
110
100
90
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

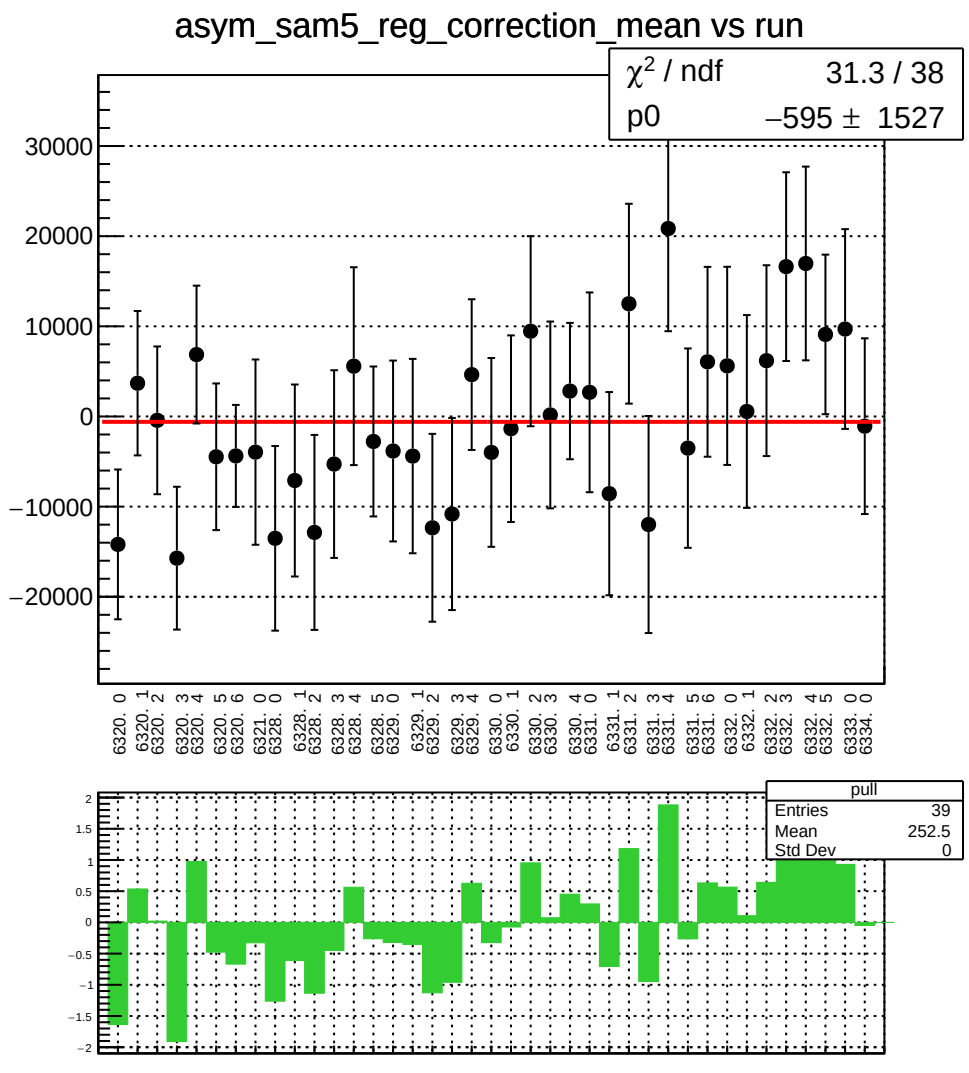

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.17 / 38
p0 −9.089e−14 ± 1.063e−13
pull
Entries 39
Mean 57.13
Std Dev 0

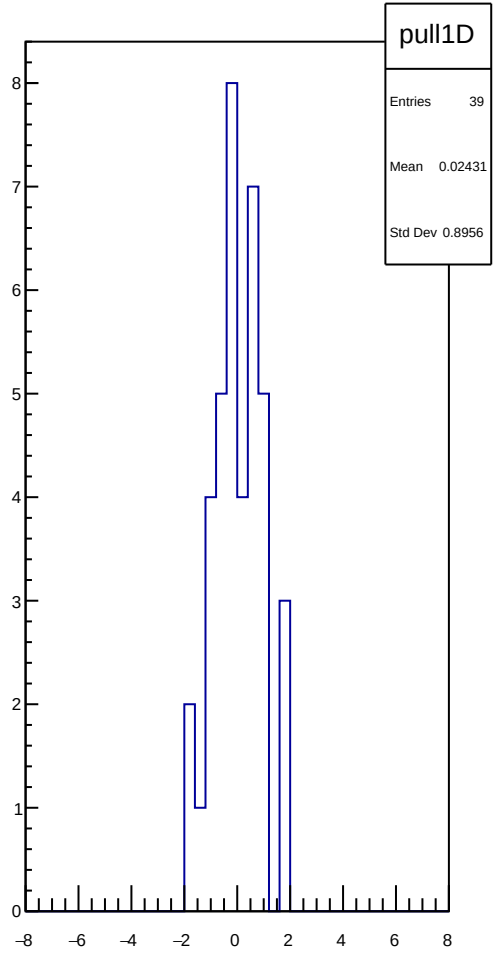

pull1D
Entries 39
Mean 0.01287
Std Dev 0.9762

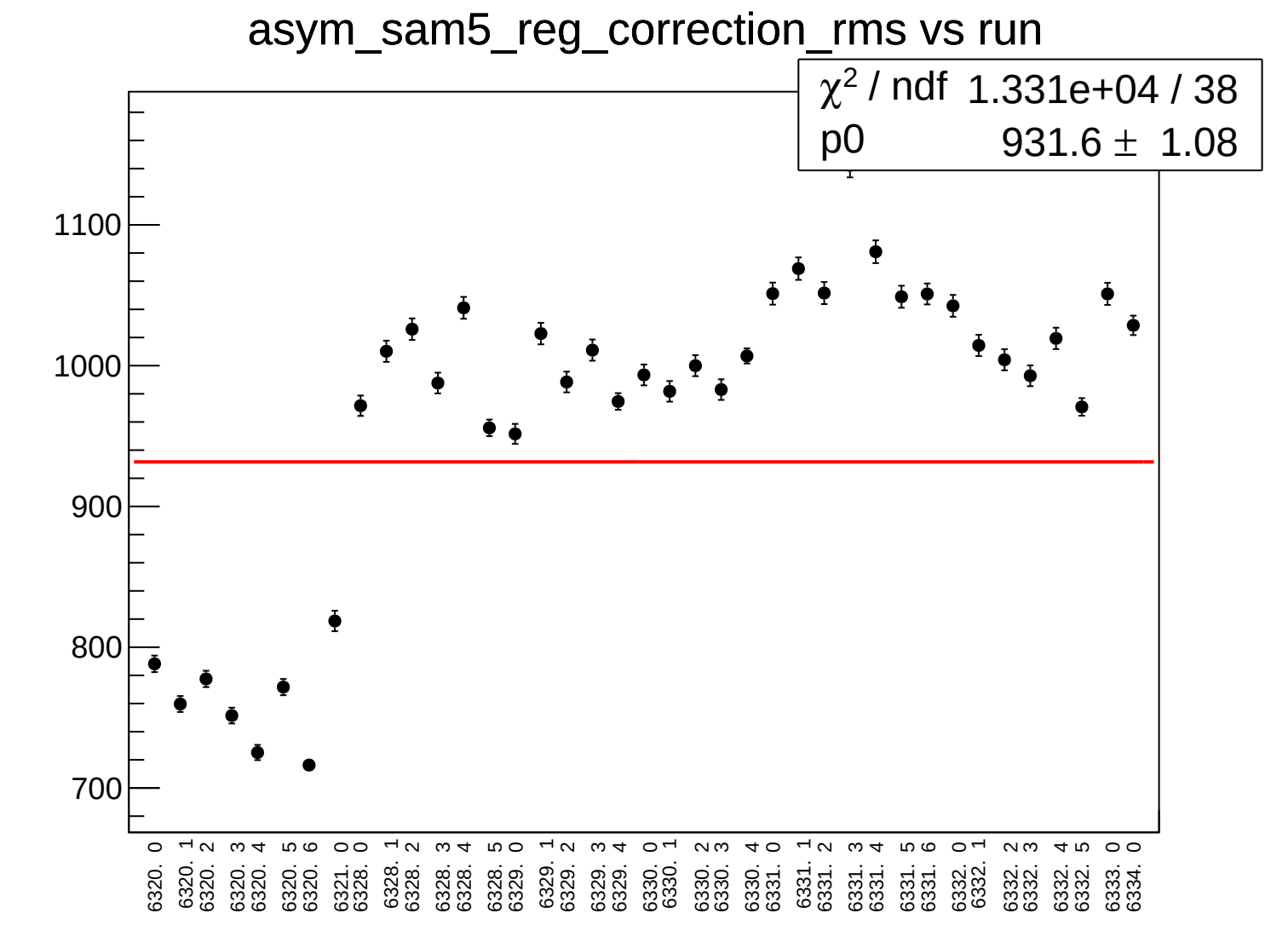

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.595e+05 / 38
p0 5.814e−11 ± 7.514e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

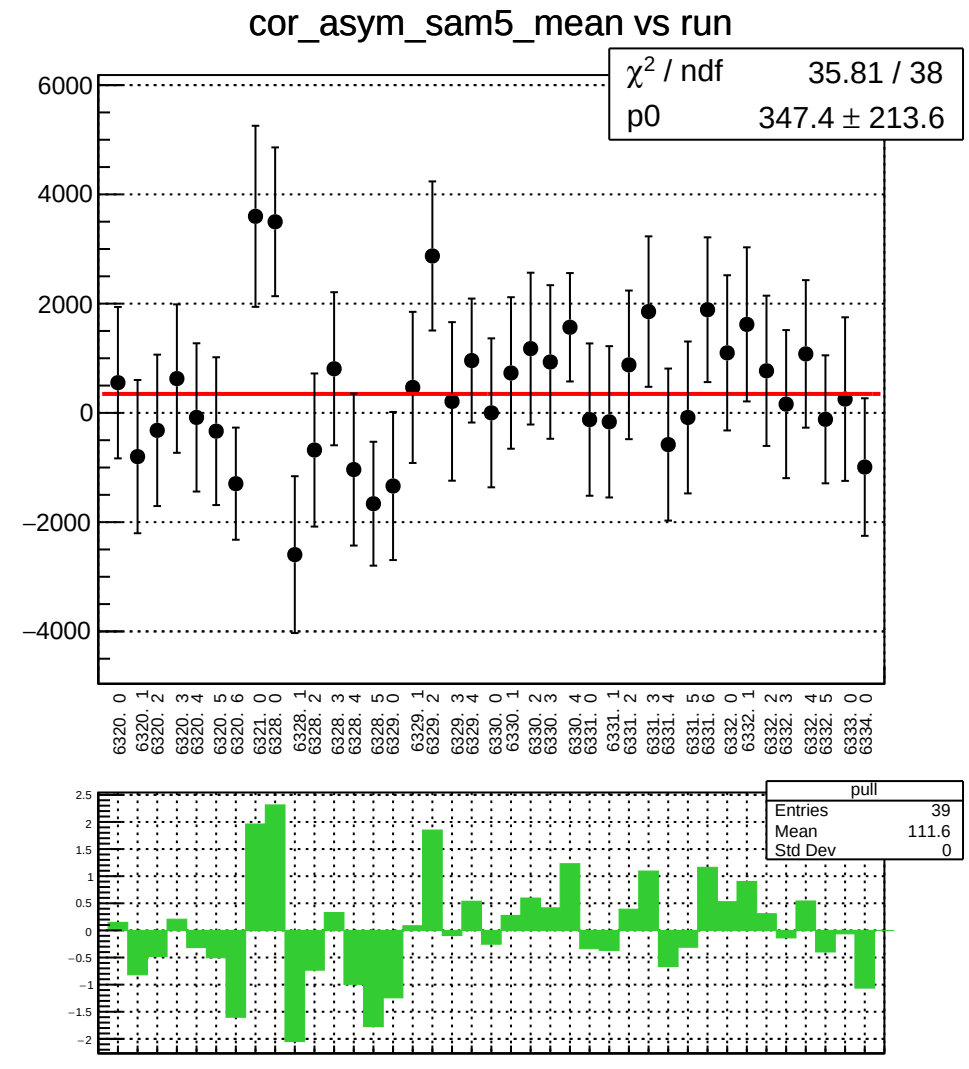

reg_asym_sam5_mean vs run
χ² / ndf 35.81 / 38
p0 347.3 ± 213.6
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 111.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01735
Std Dev 0.9581
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

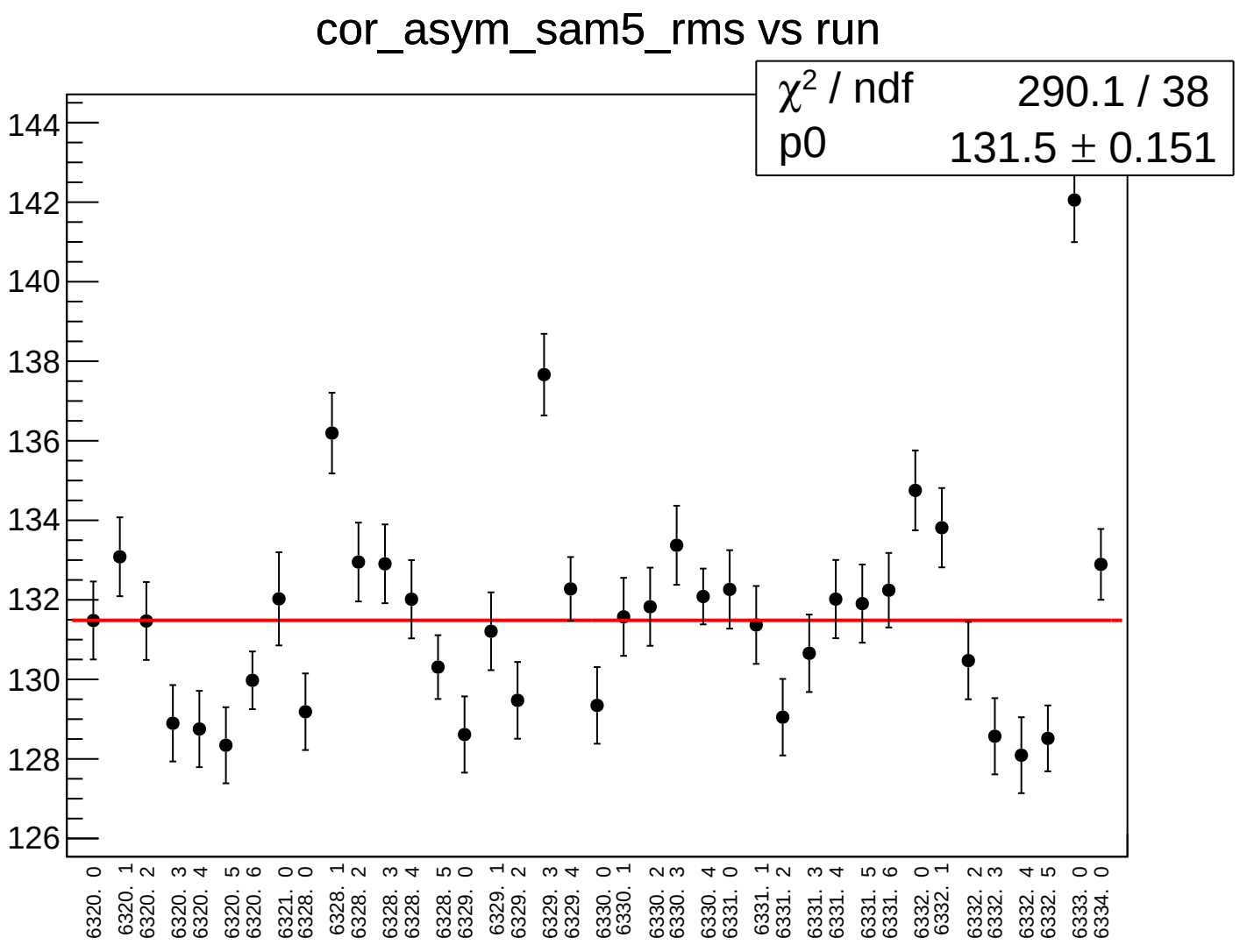

reg_asym_sam5_rms vs run
χ² / ndf 290.1 / 38
p0 131.5 ± 0.151
144
142
140
138
136
134
132
130
128
126
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

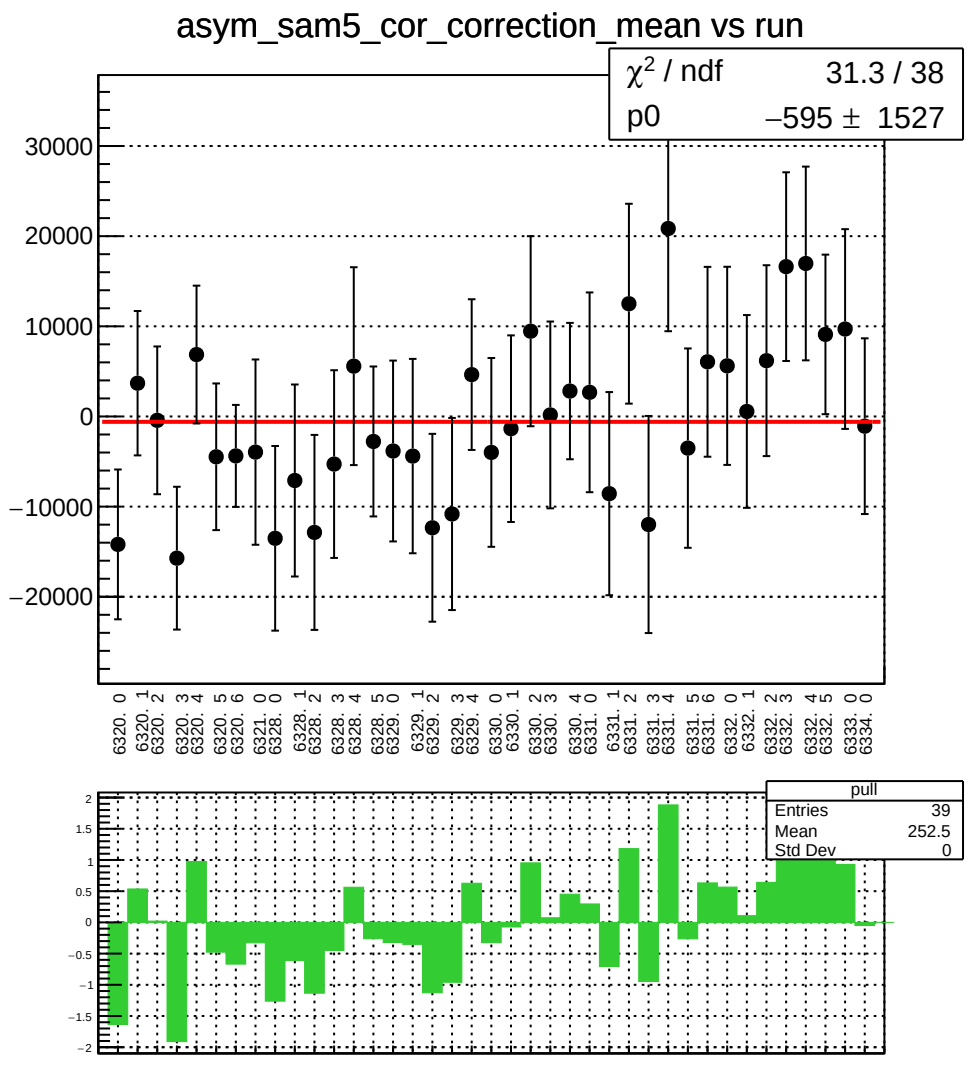

asym_sam5_reg_correction_mean vs run
χ² / ndf 31.3 / 38
p0 −595 ± 1527
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

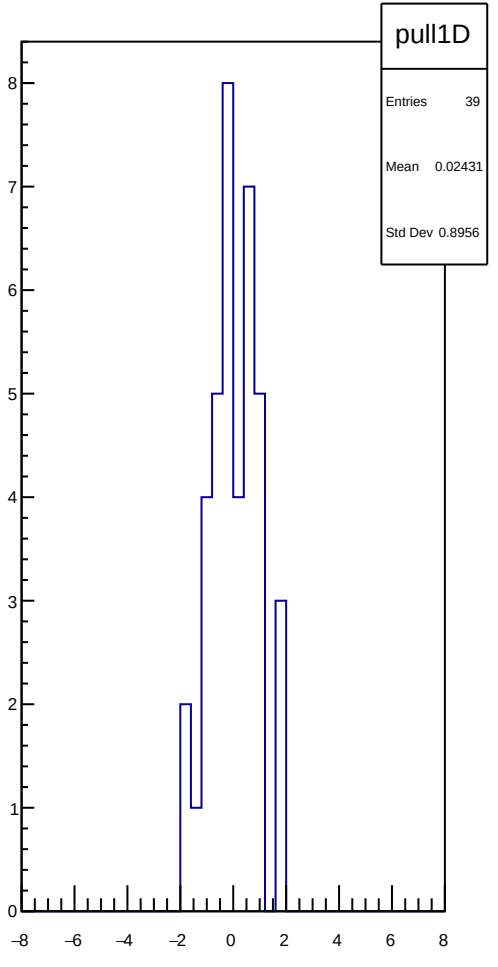

pull1D
Entries 39
Mean 0.02431
Std Dev 0.8956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

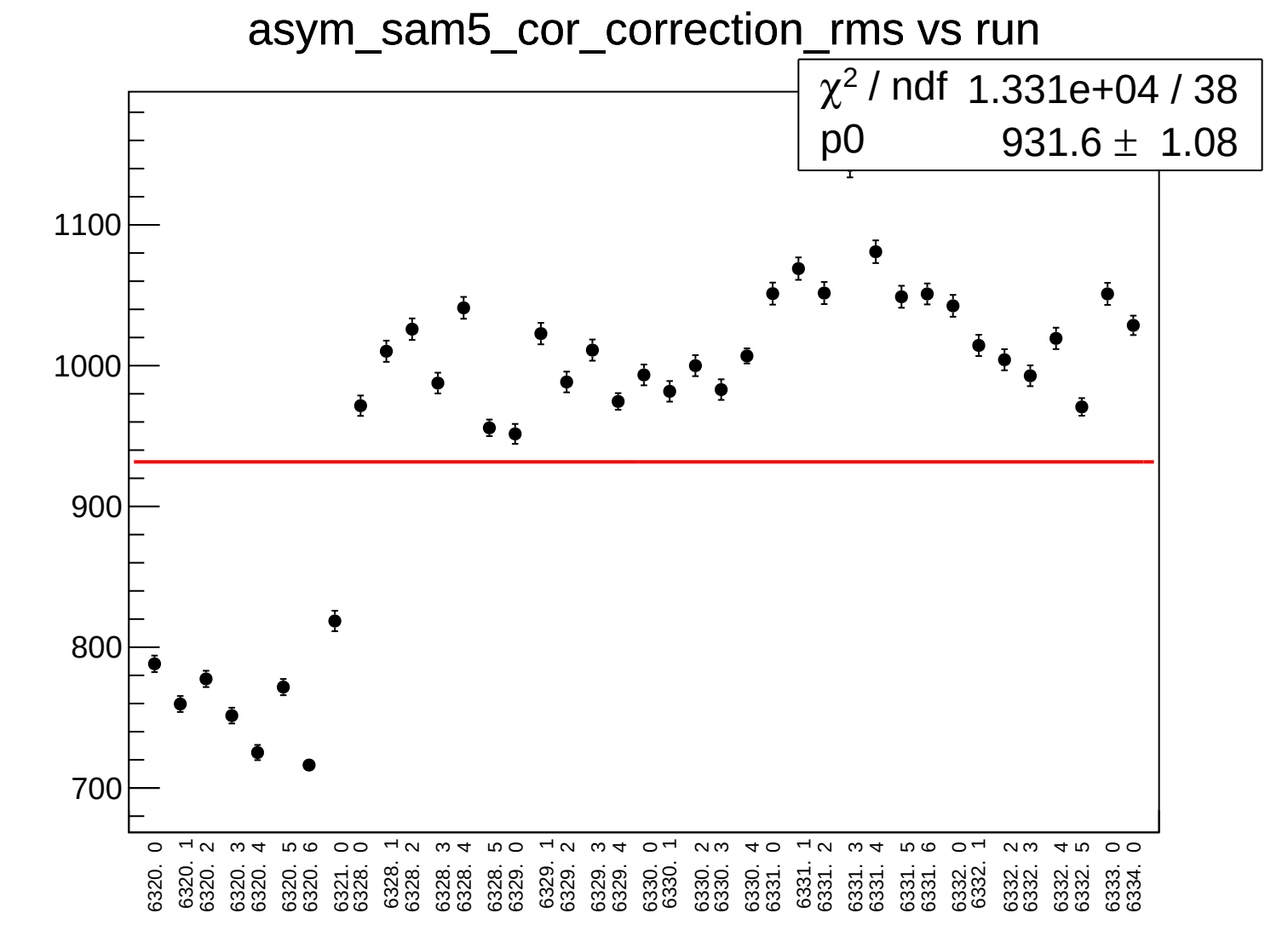

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.331e+04 / 38
p0 931.6 ± 1.08
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

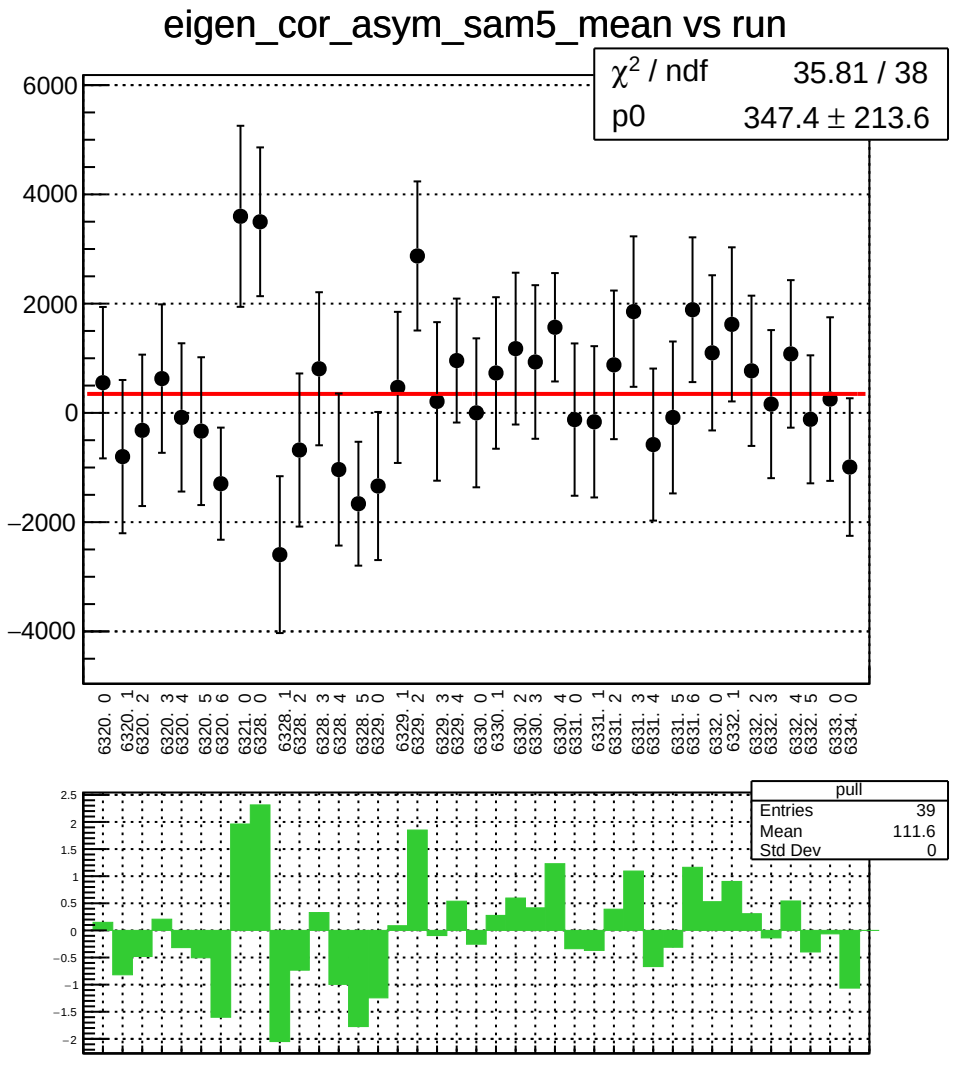

cor_asym_sam5_mean vs run
χ² / ndf 35.81 / 38
p0 347.4 ± 213.6
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 111.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01735
Std Dev 0.9581
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

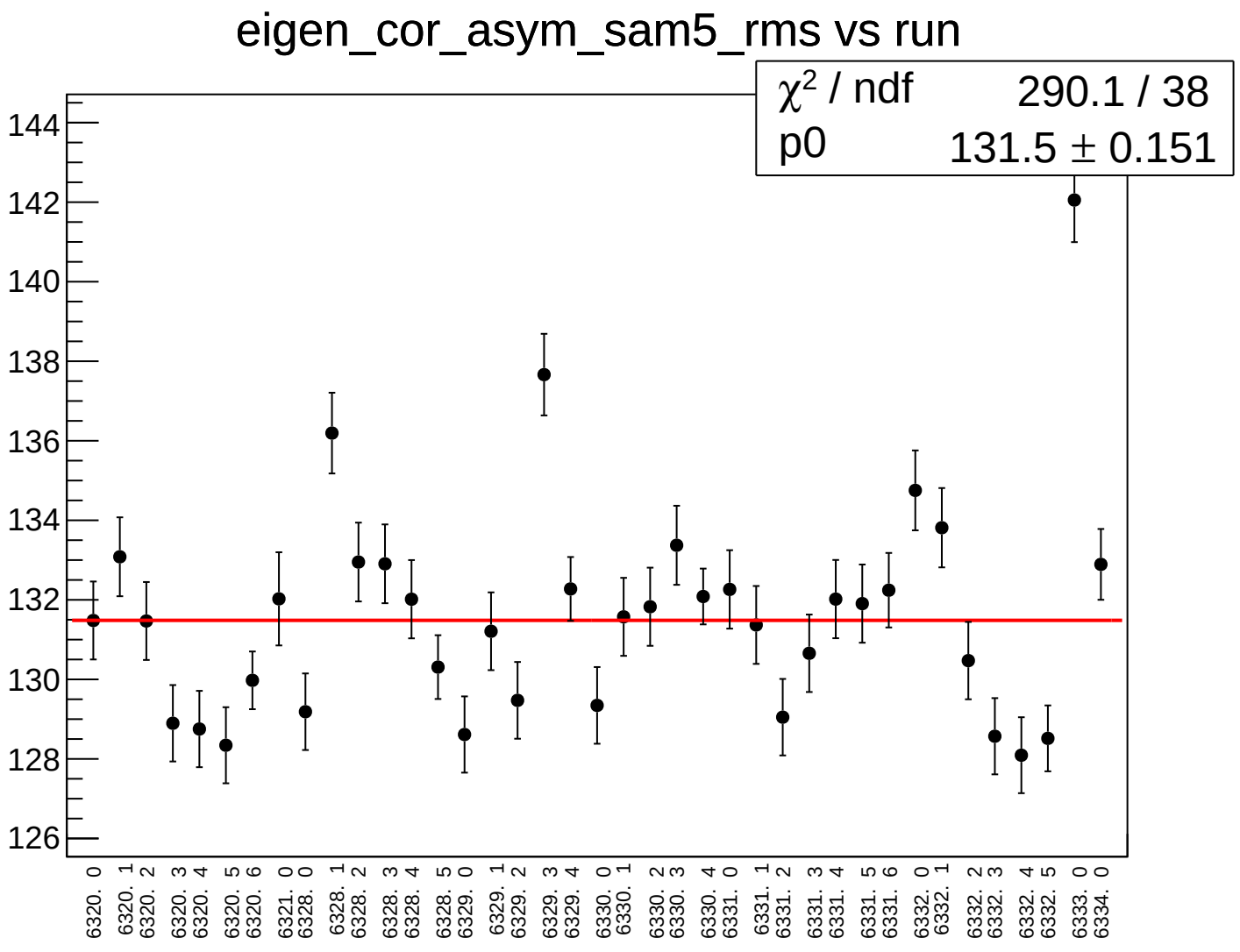

cor_asym_sam5_rms vs run
χ^2 / ndf 290.1 / 38
p0 131.5 ± 0.151
144
142
140
138
136
134
132
130
128
126
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam5_cor_correction_mean vs run
χ² / ndf 31.3 / 38
p0 −595 ± 1527
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.02431
Std Dev 0.8956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 1.331e+04 / 38
p0 931.6 ± 1.08
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam5_mean vs run
χ² / ndf 35.81 / 38
p0 347.4 ± 213.6
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 111.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01735
Std Dev 0.9581
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 290.1 / 38
p0 131.5 ± 0.151
144
142
140
138
136
134
132
130
128
126
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
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6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
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6330. 3
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6331. 0
6331. 1
6331. 2
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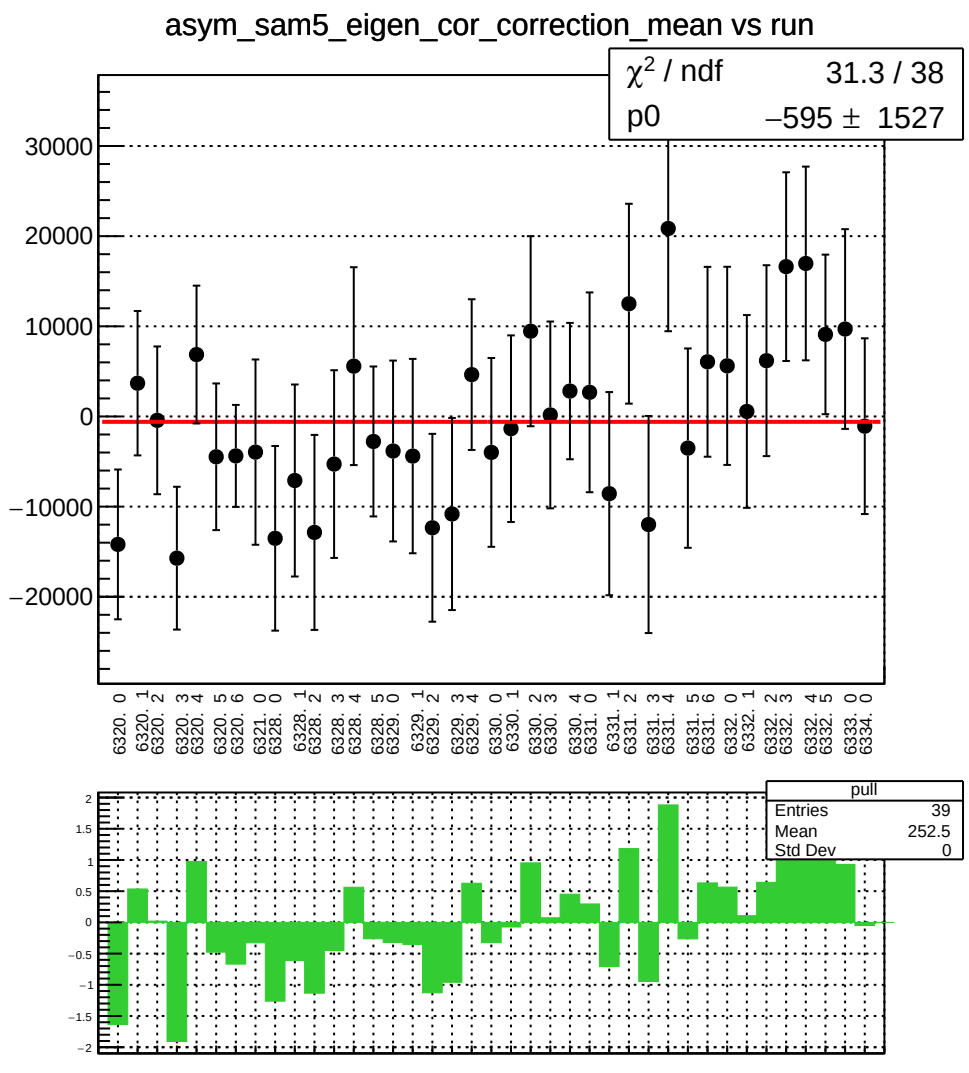
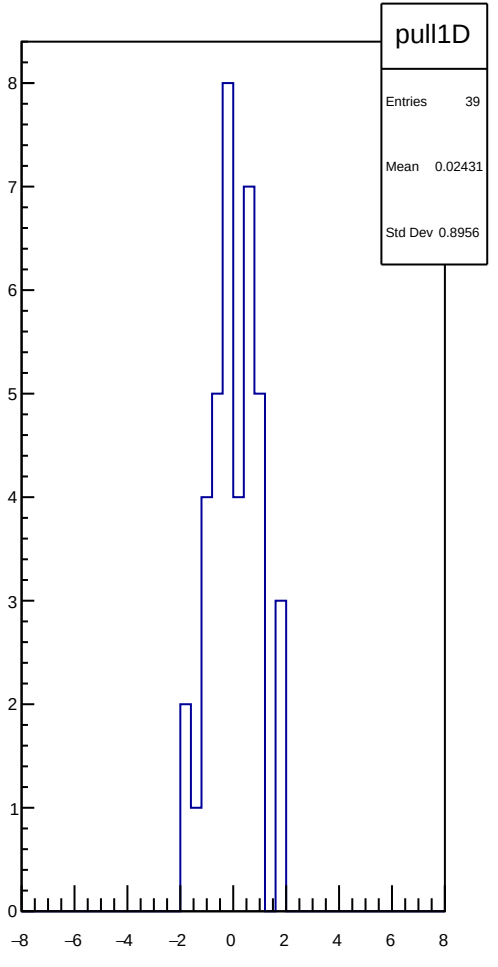
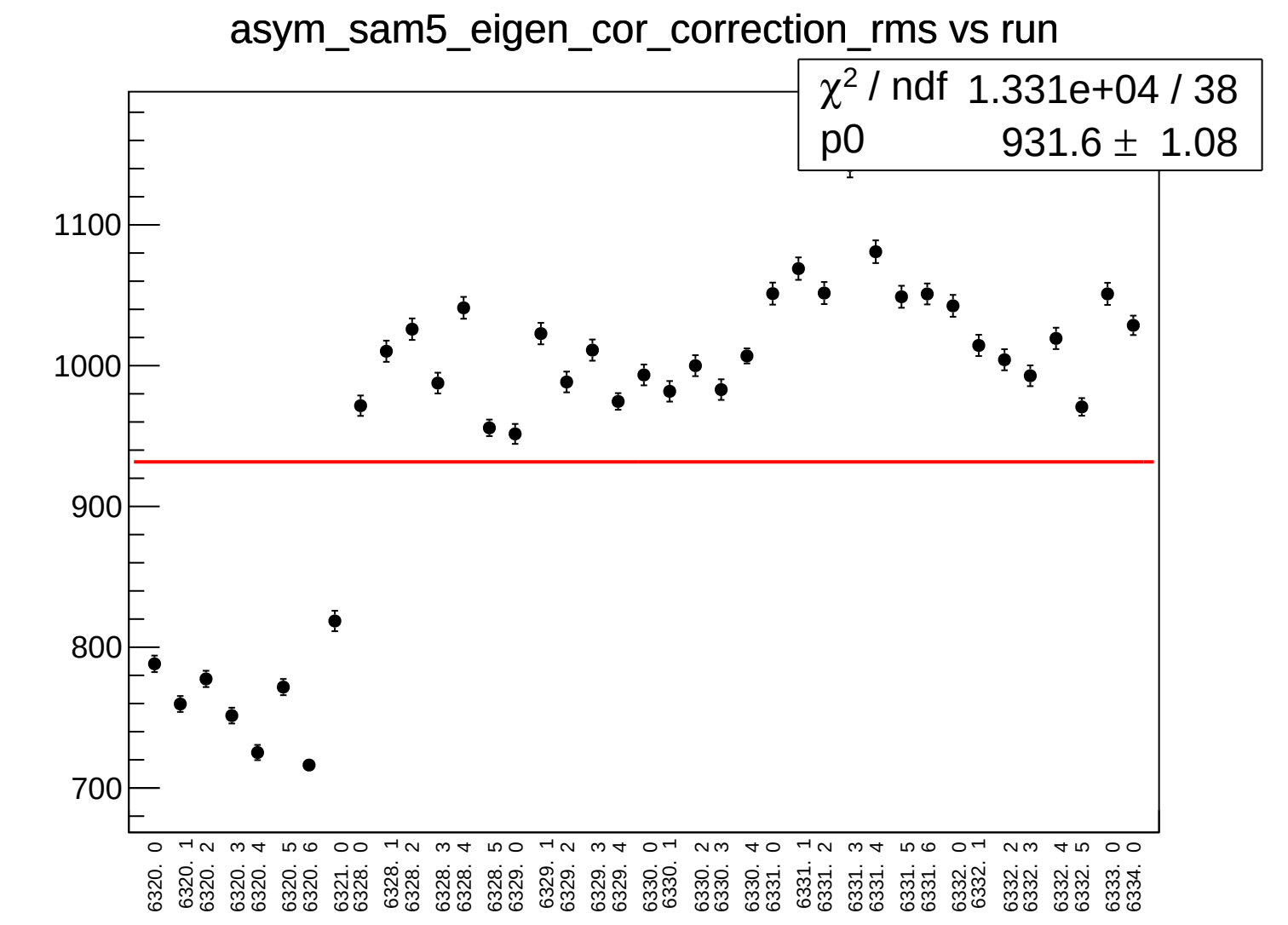
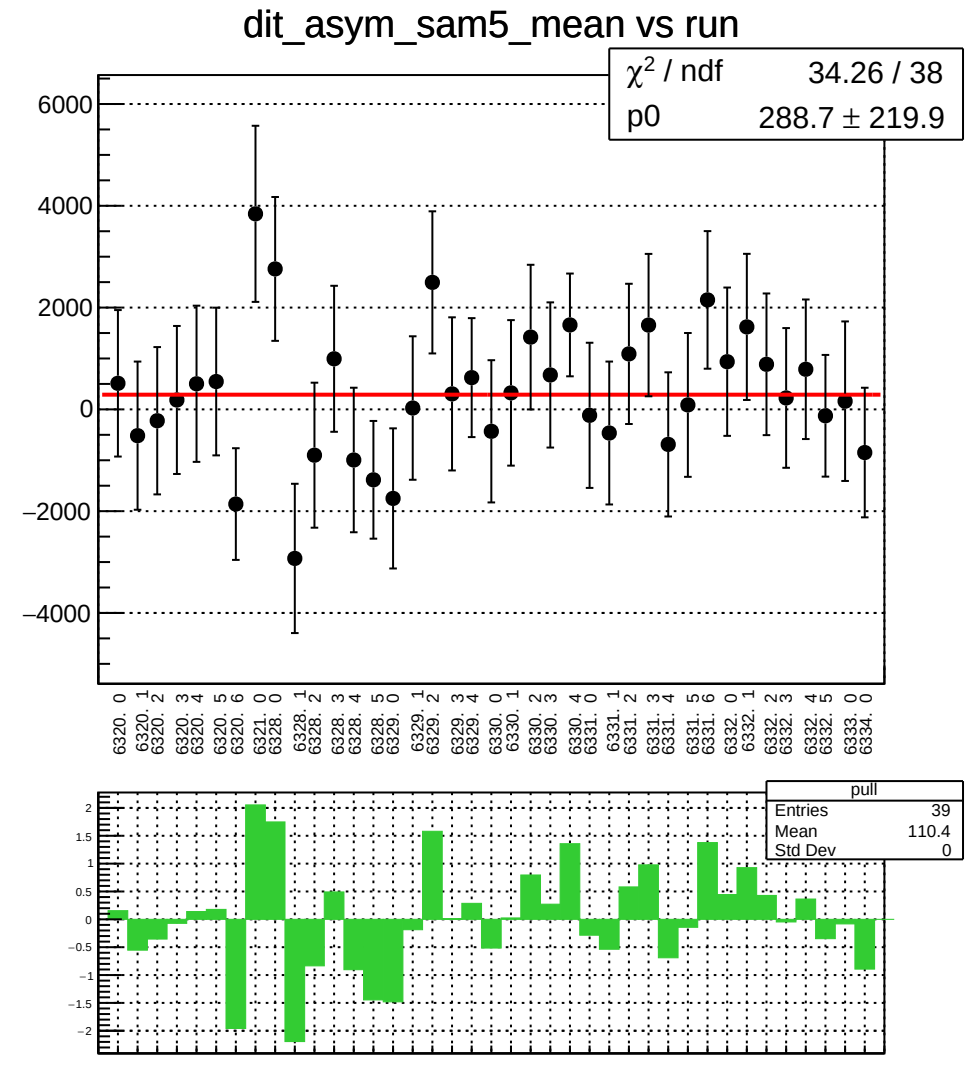
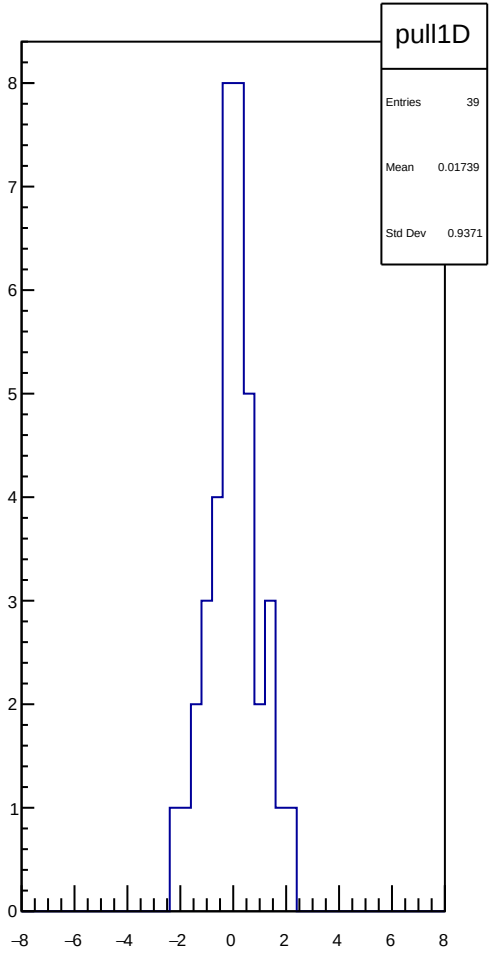
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

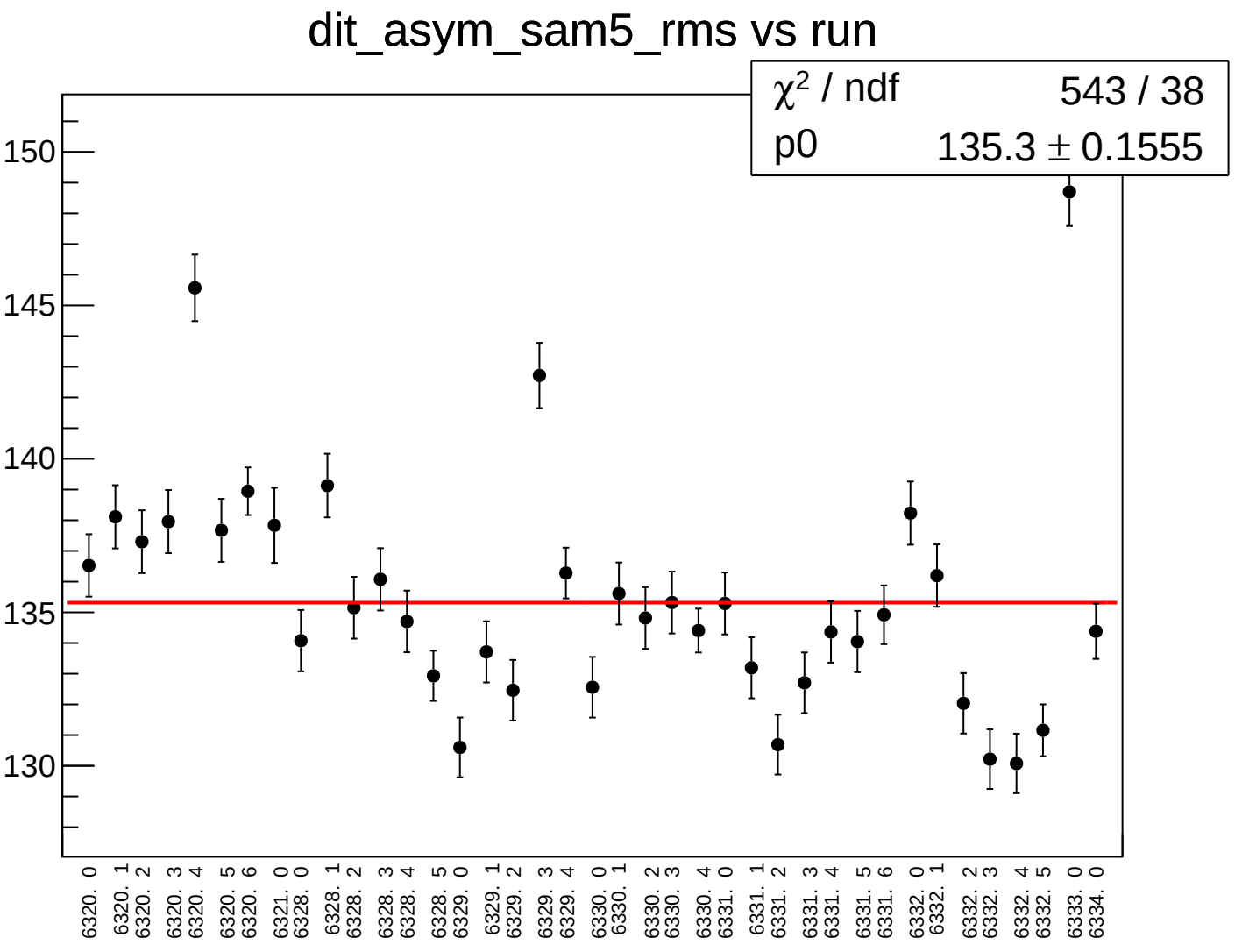

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 31.3 / 38
p0 −595 ± 1527
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

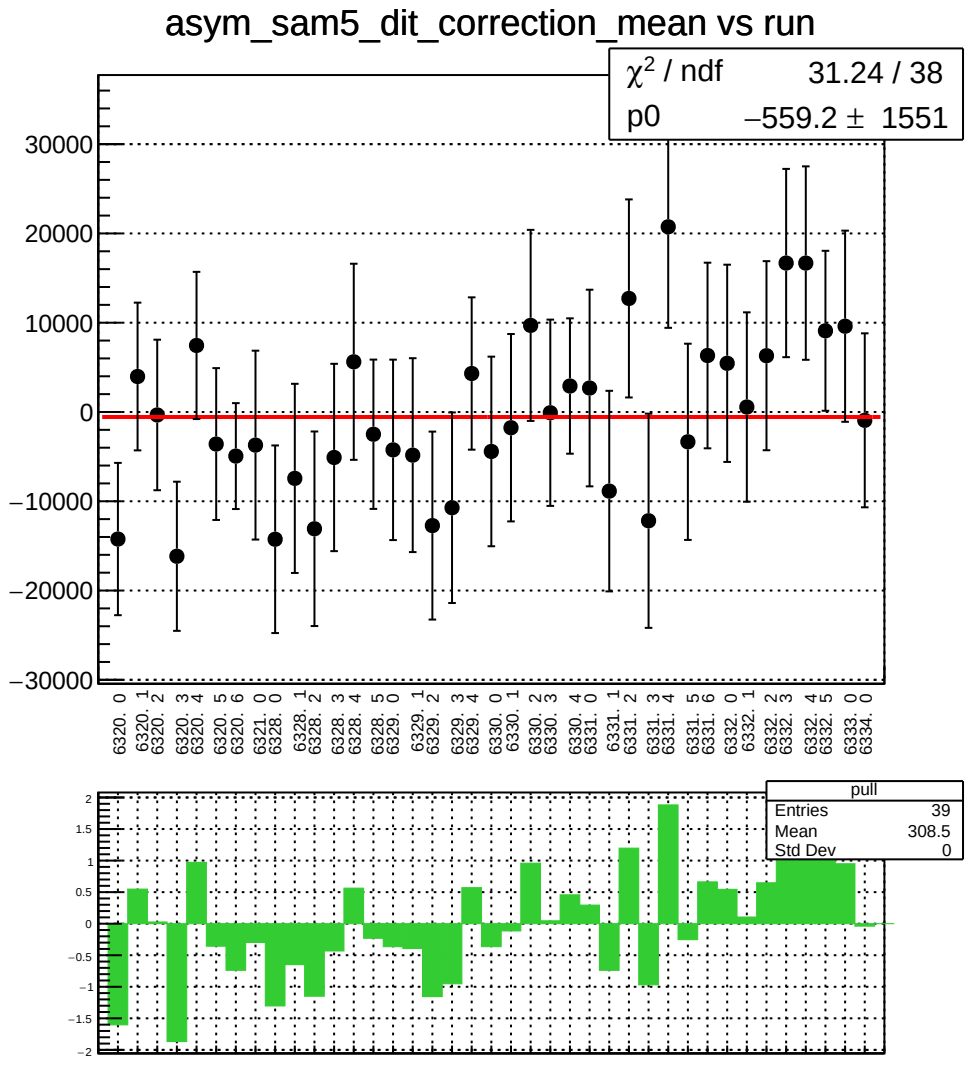

pull1D
Entries 39
Mean 0.02431
Std Dev 0.8956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

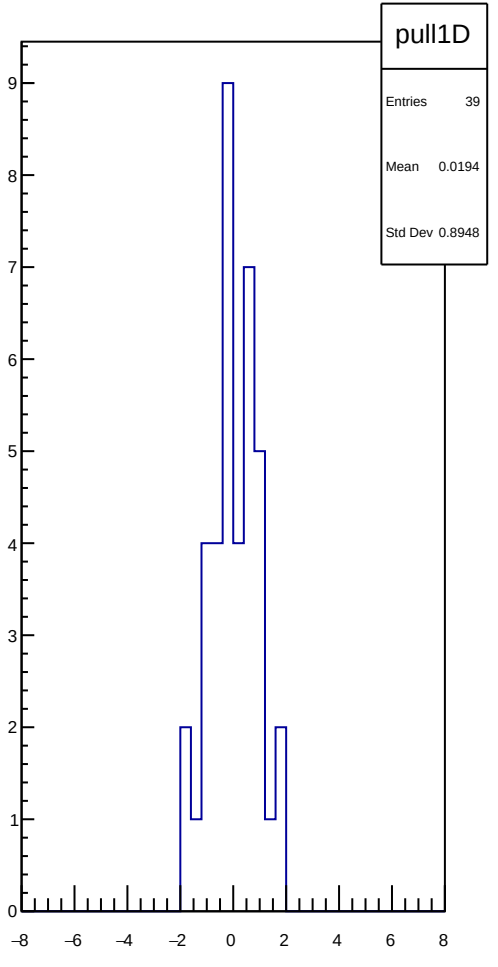

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.331e+04 / 38
p0 931.6 ± 1.08
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

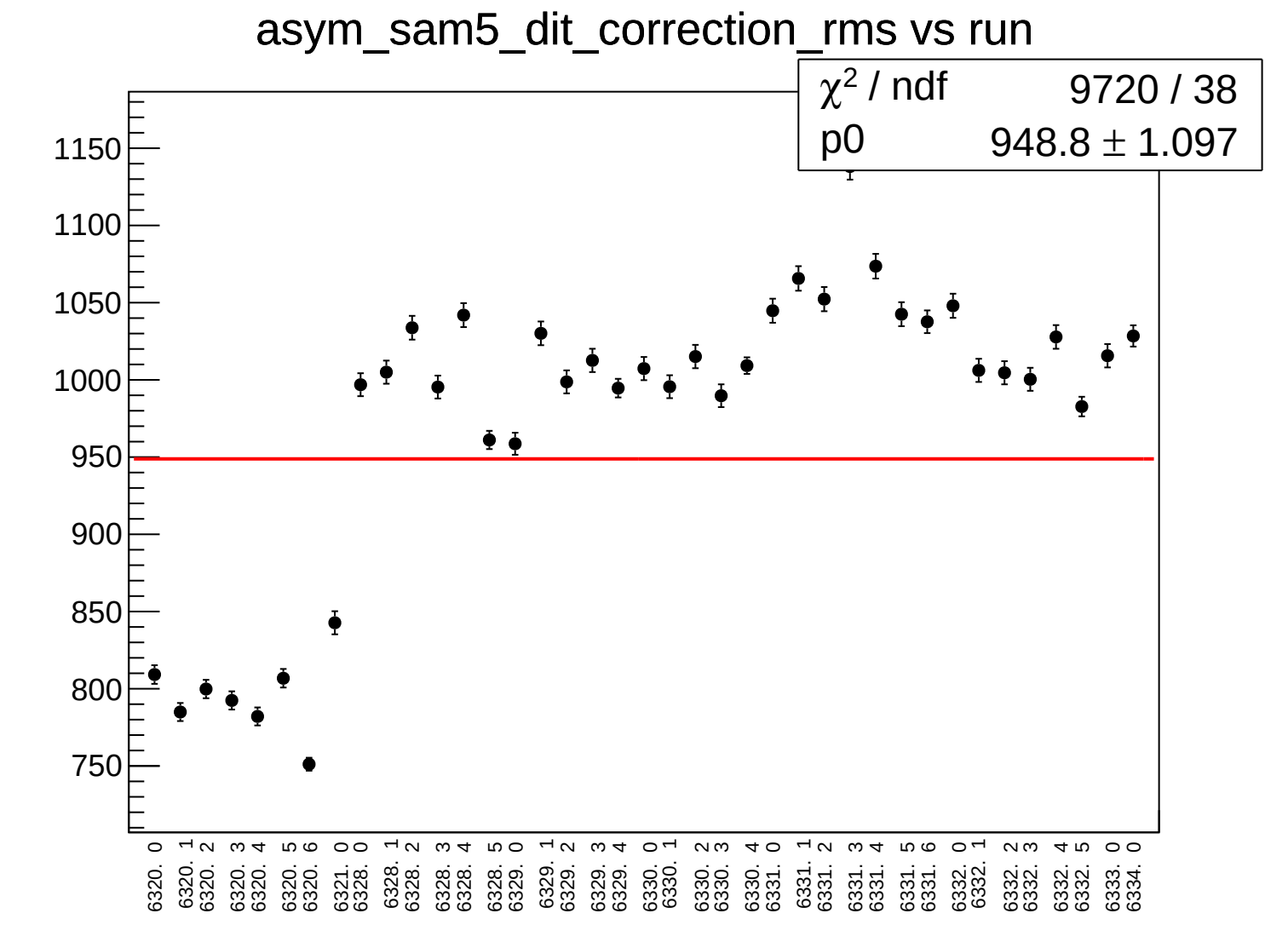

dit_asym_sam5_mean vs run
χ² / ndf 34.26 / 38
p0 288.7 ± 219.9
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 110.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

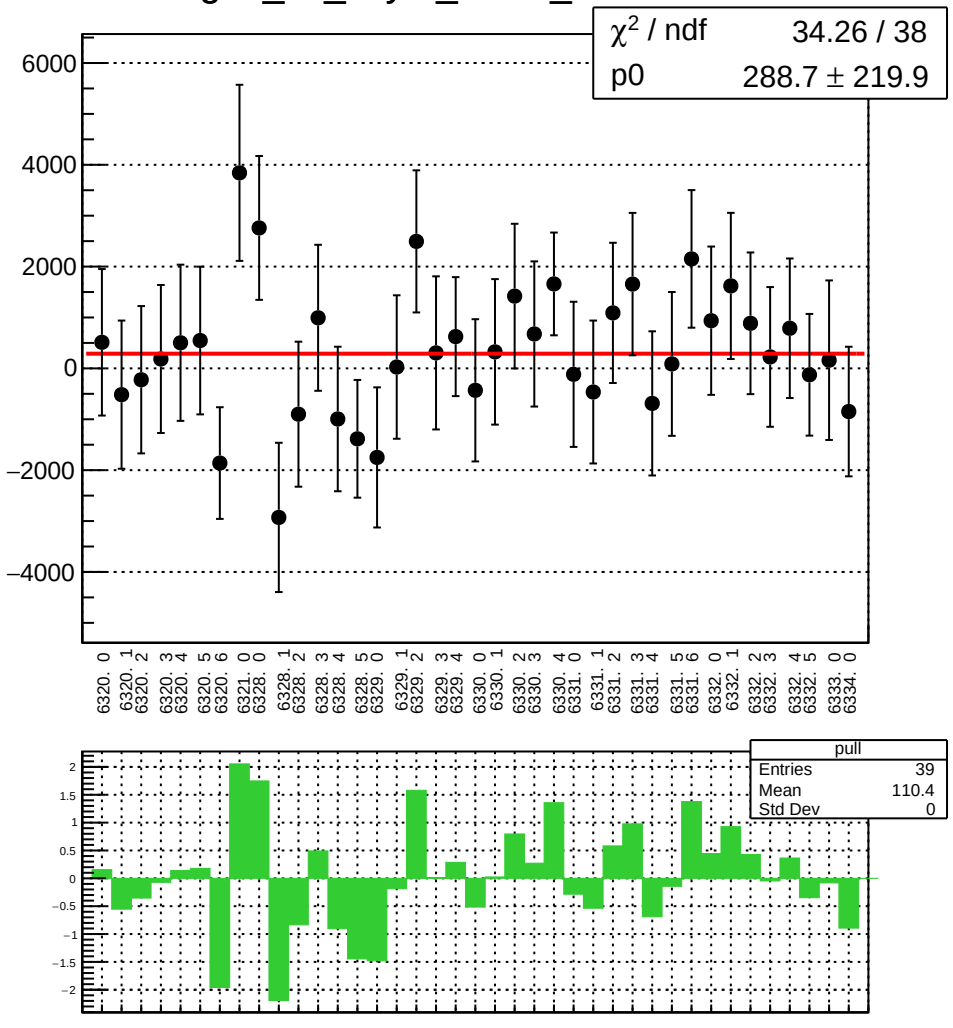

pull1D
Entries 39
Mean 0.01739
Std Dev 0.9371
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

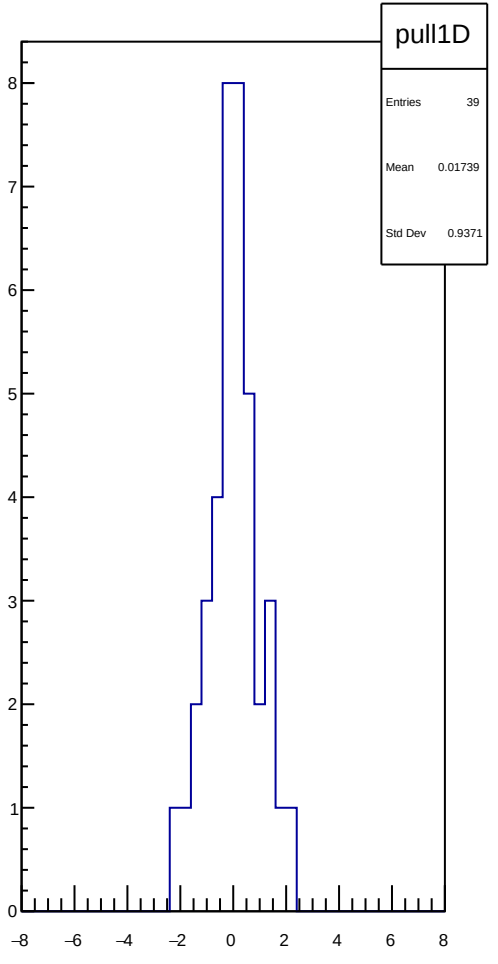

dit_asym_sam5_rms vs run
χ² / ndf 543 / 38
p0 135.3 ± 0.1555
150
145
140
135
130
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

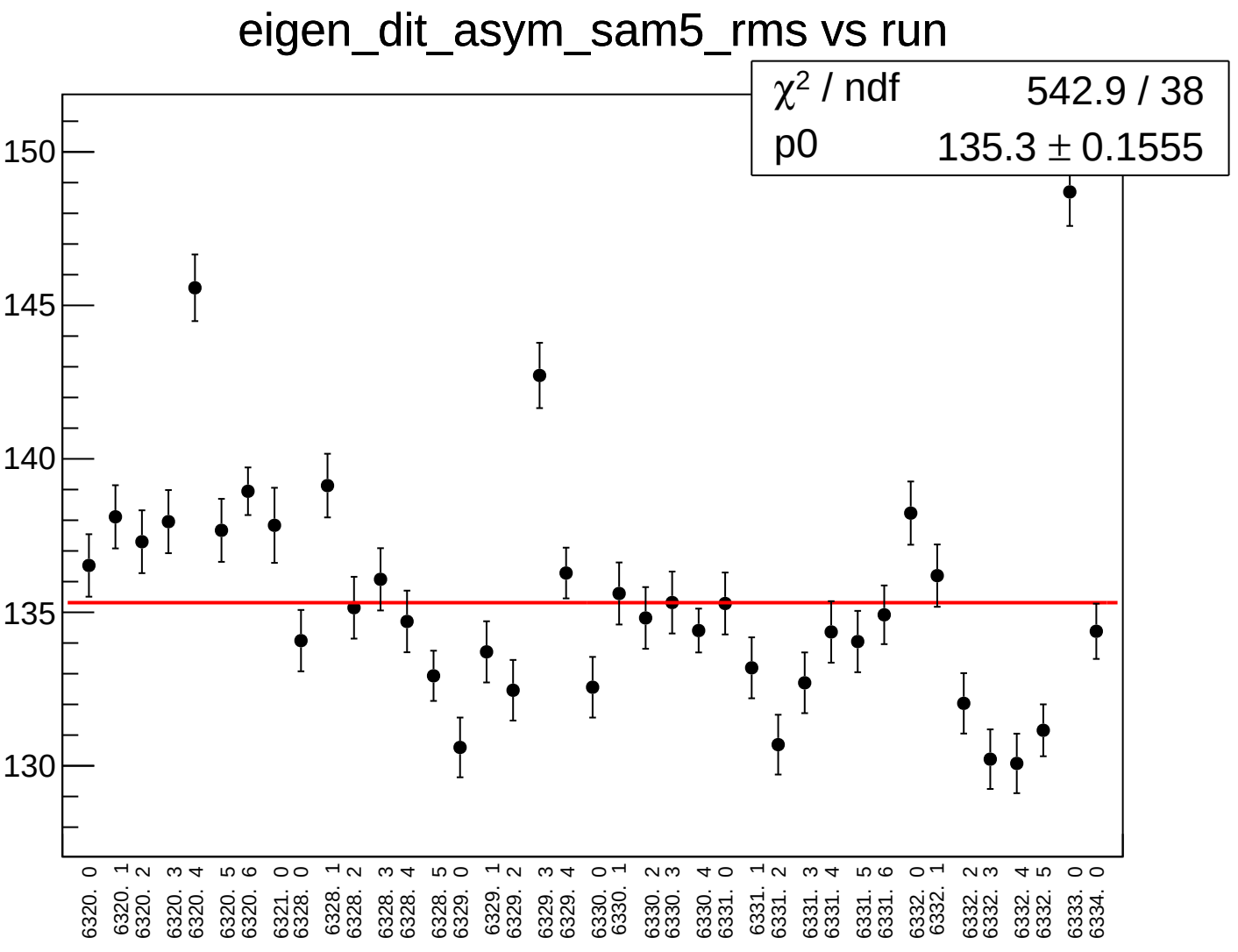

asym_sam5_dit_correction_mean vs run
χ² / ndf 31.24 / 38
p0 −559.2 ± 1551
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 308.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

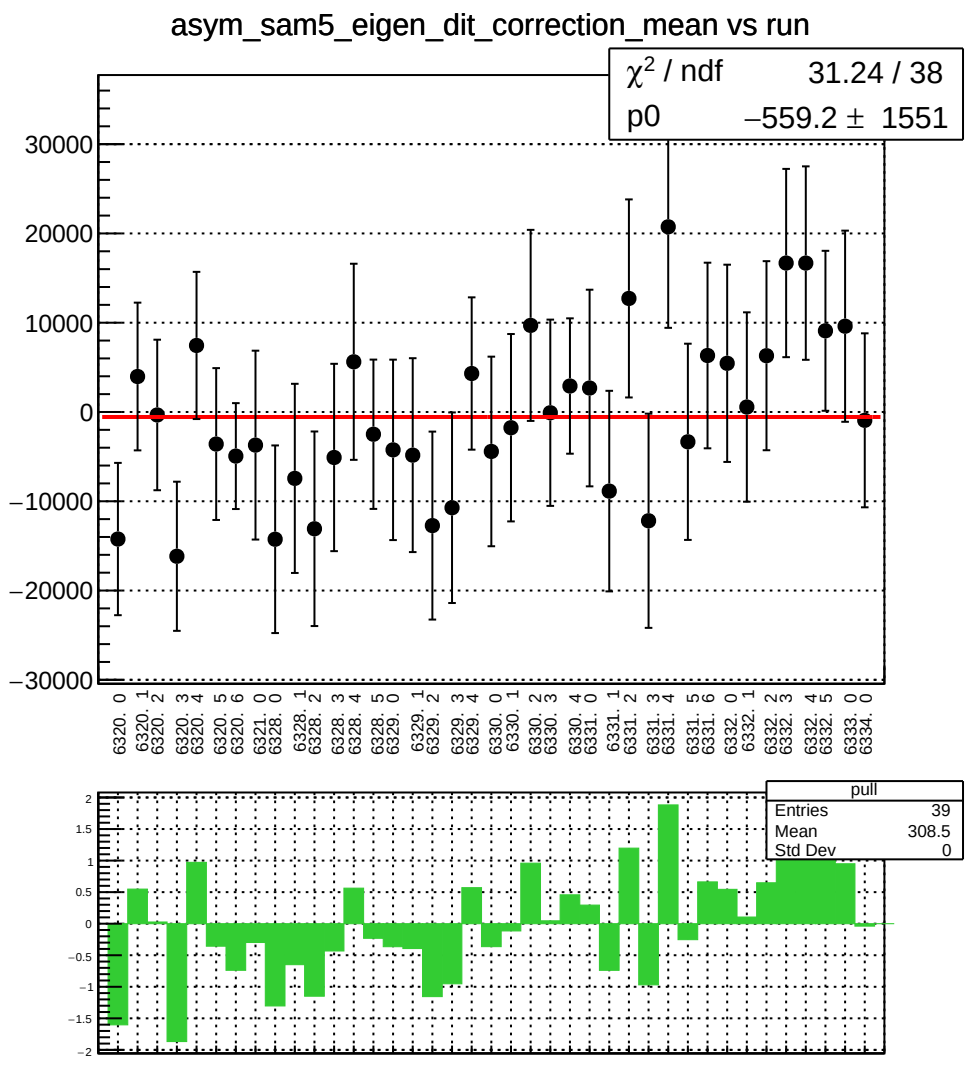

pull1D
Entries 39
Mean 0.0194
Std Dev 0.8948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

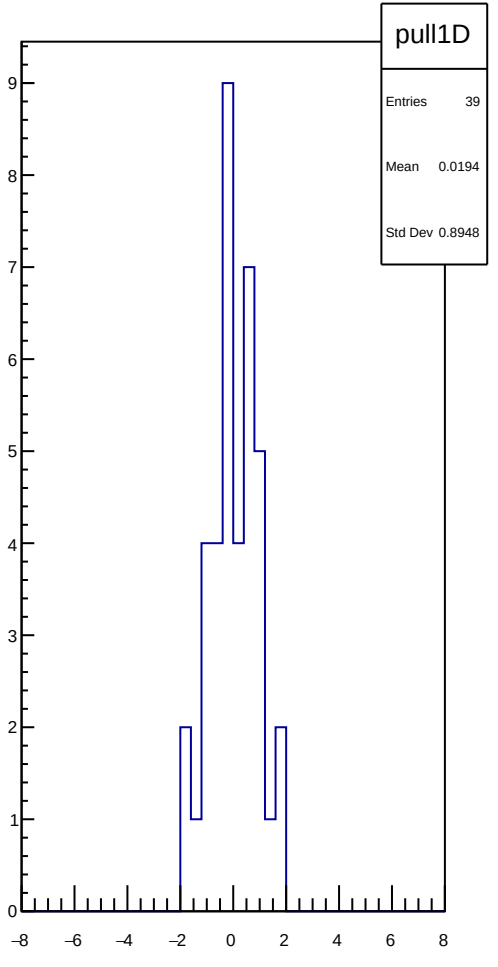

asym_sam5_dit_correction_rms vs run
χ² / ndf 9720 / 38
p0 948.8 ± 1.097
1150
1100
1050
1000
950
900
850
800
750
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

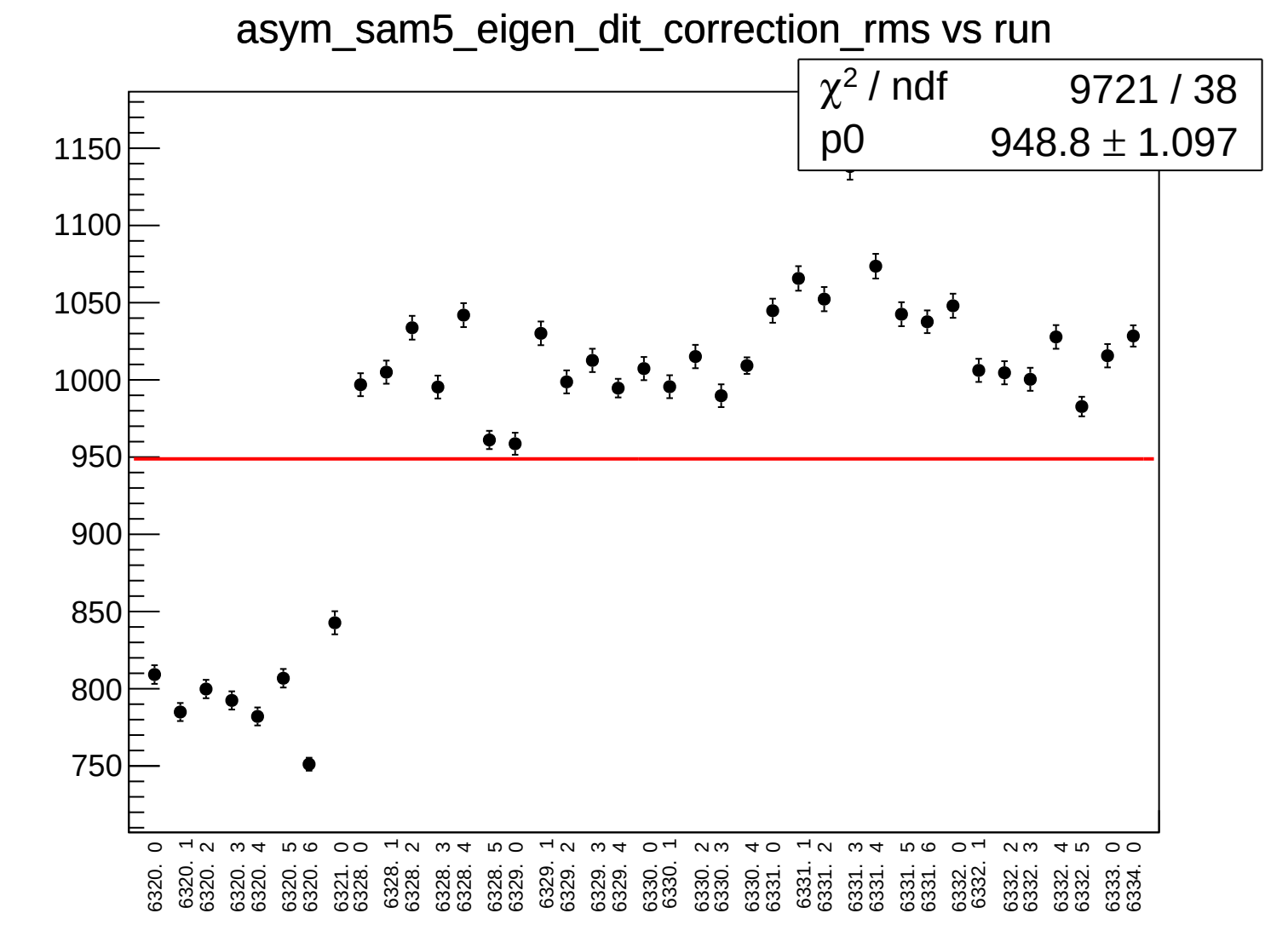

eigen_dit_asym_sam5_mean vs run
χ² / ndf 34.26 / 38
p0 288.7 ± 219.9
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 110.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

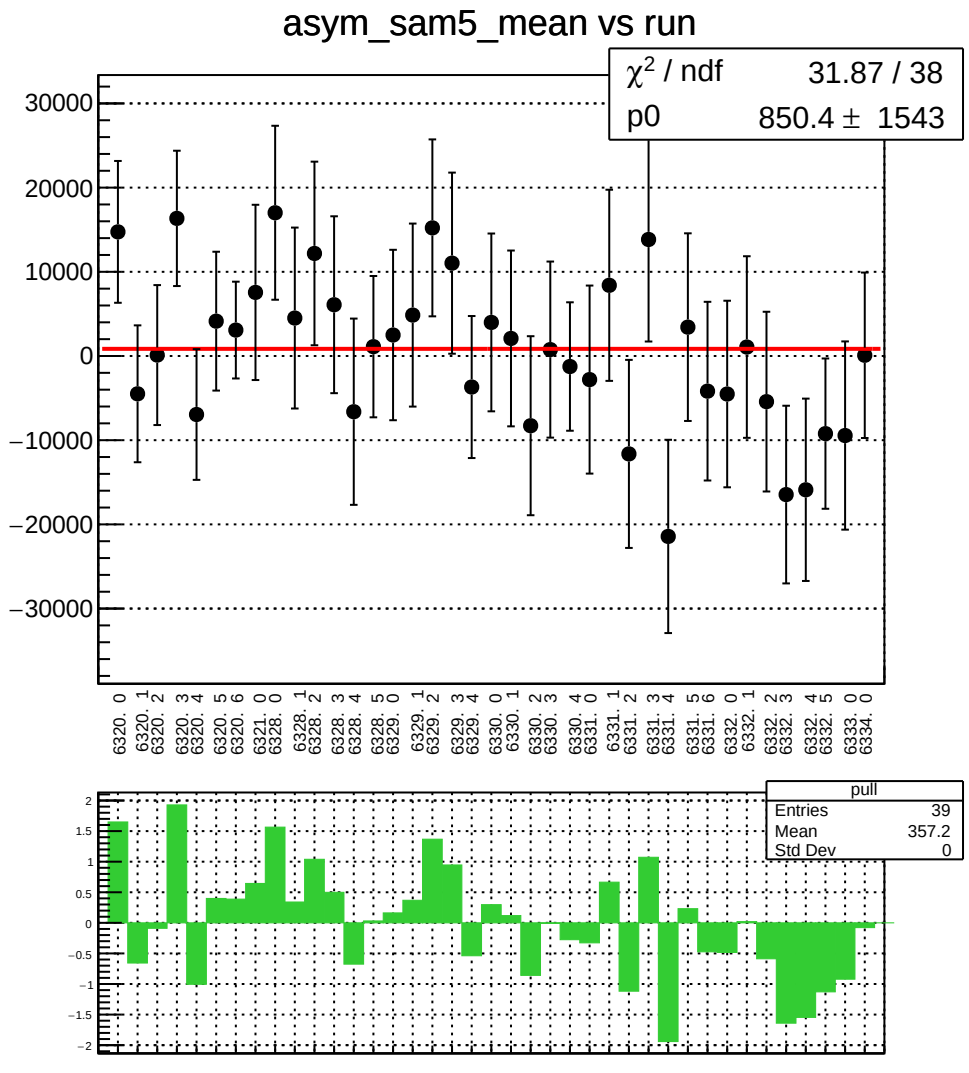

pull1D
Entries 39
Mean 0.01739
Std Dev 0.9371
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

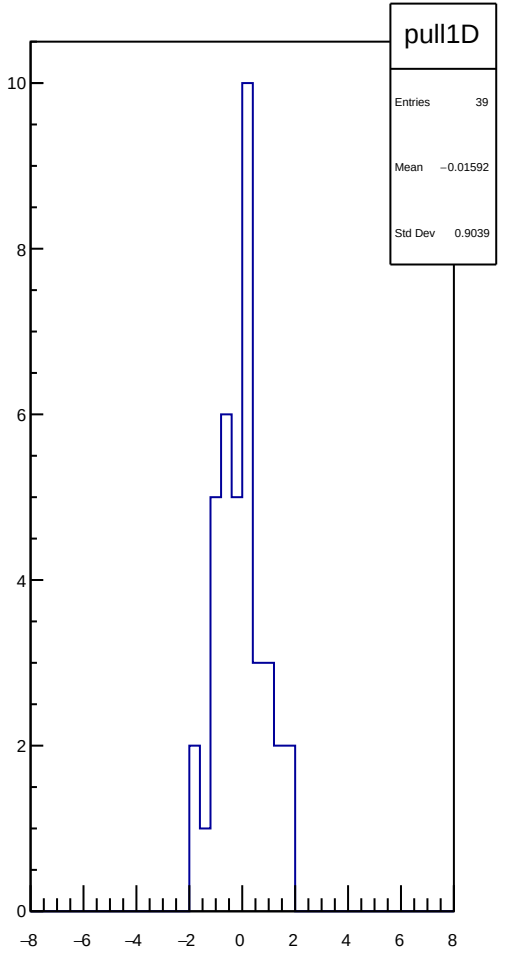

eigen_dit_asym_sam5_rms vs run
χ² / ndf 542.9 / 38
p0 135.3 ± 0.1555
150
145
140
135
130
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

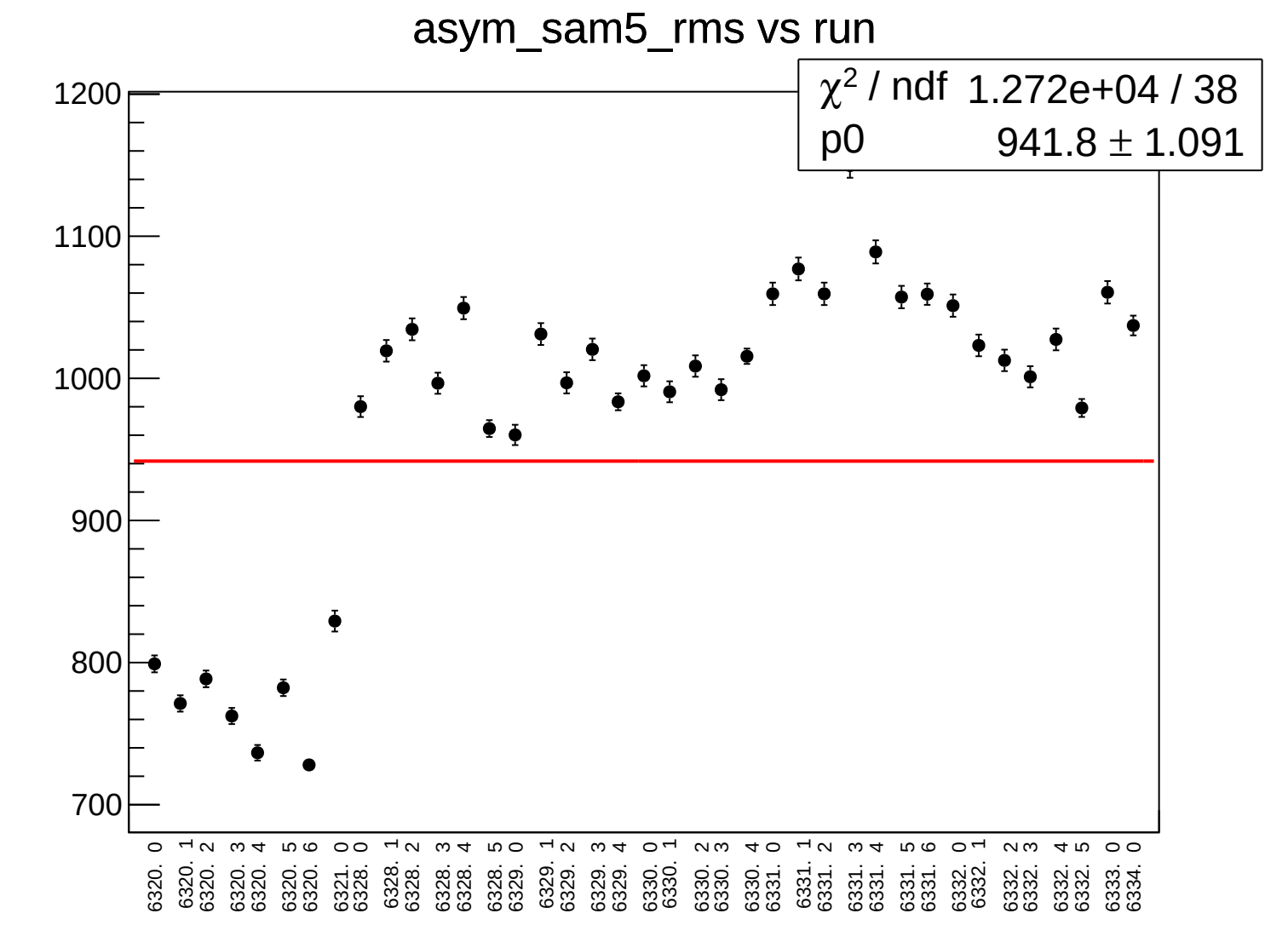

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 31.24 / 38
p0 −559.2 ± 1551
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 308.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

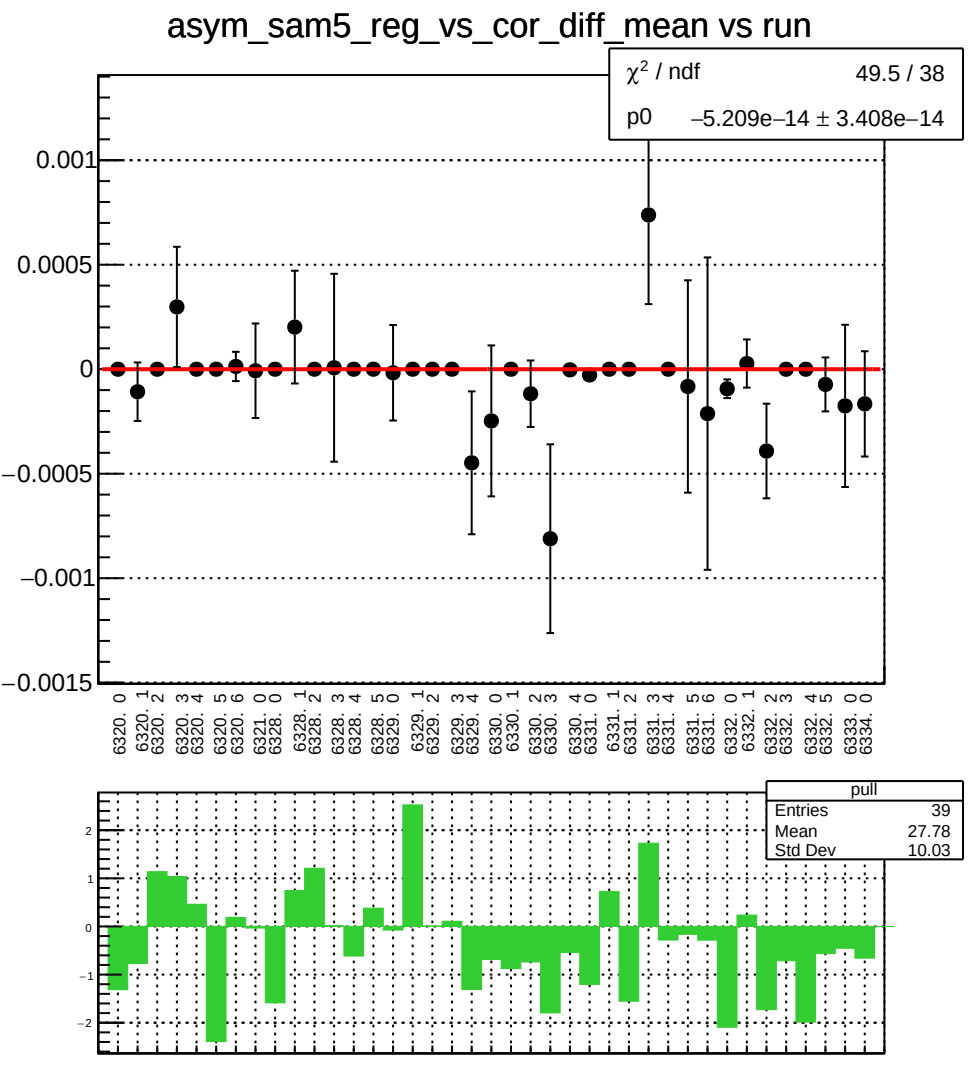

pull1D
Entries 39
Mean 0.0194
Std Dev 0.8948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

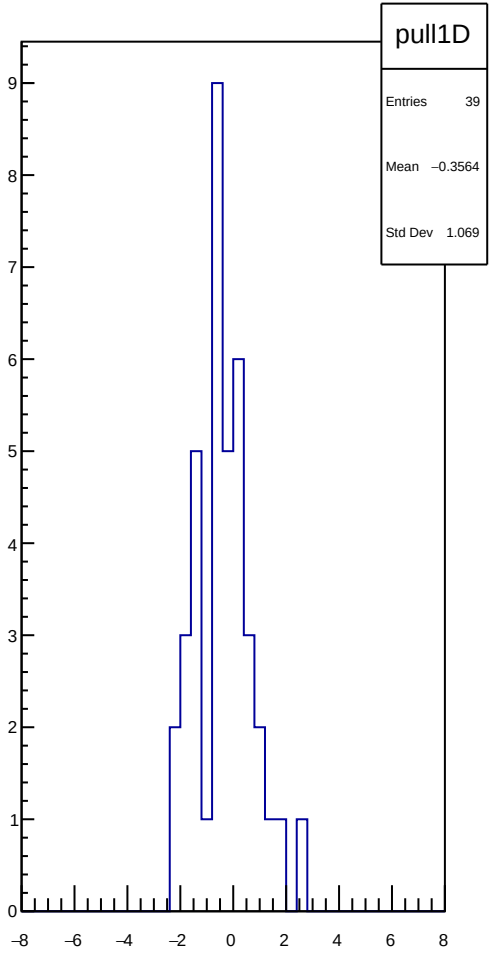

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 9721 / 38
p0 948.8 ± 1.097
1150
1100
1050
1000
950
900
850
800
750
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

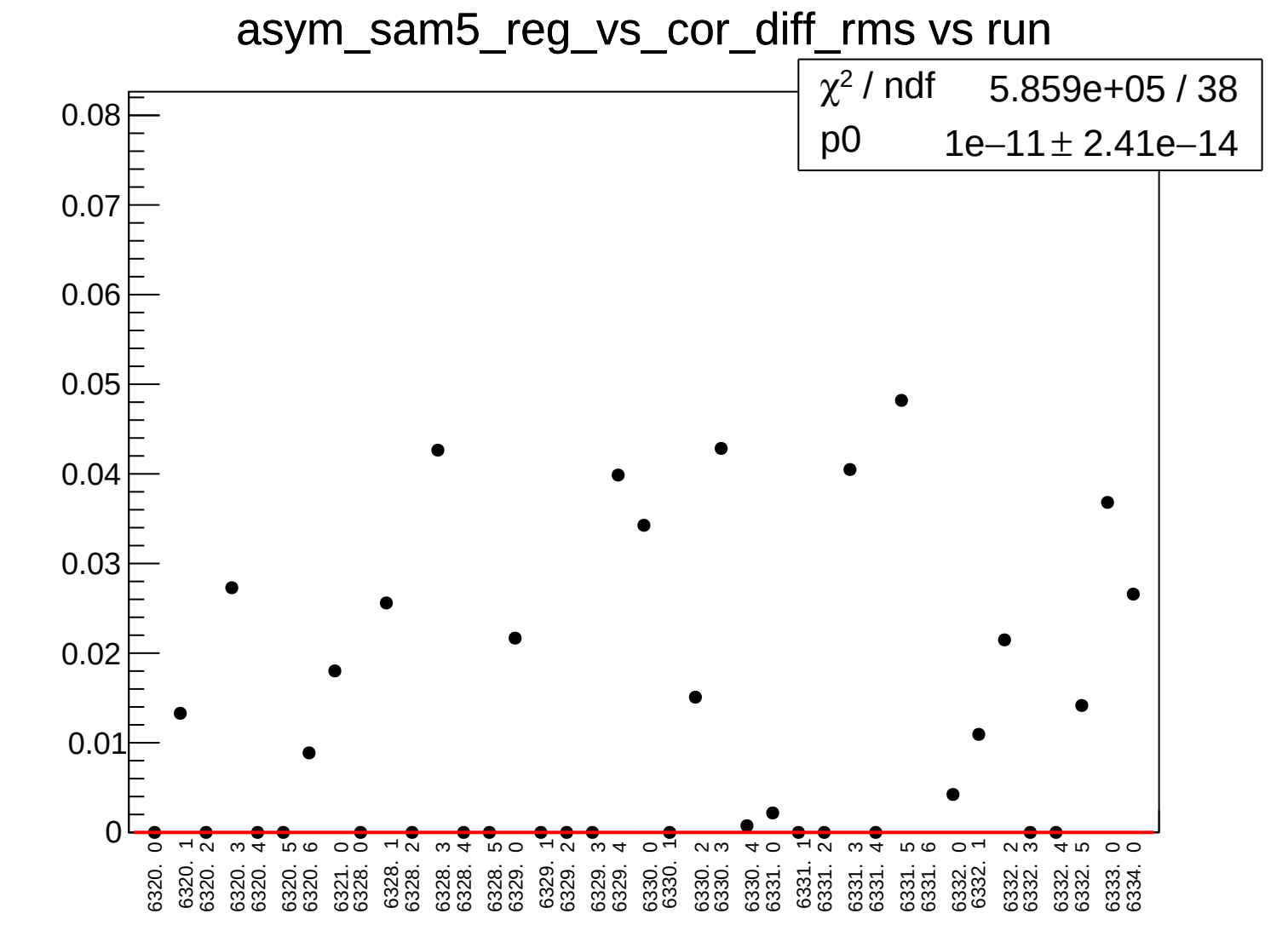

asym_sam5_mean vs run
χ² / ndf 31.87 / 38
p0 850.4 ± 1543
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 357.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

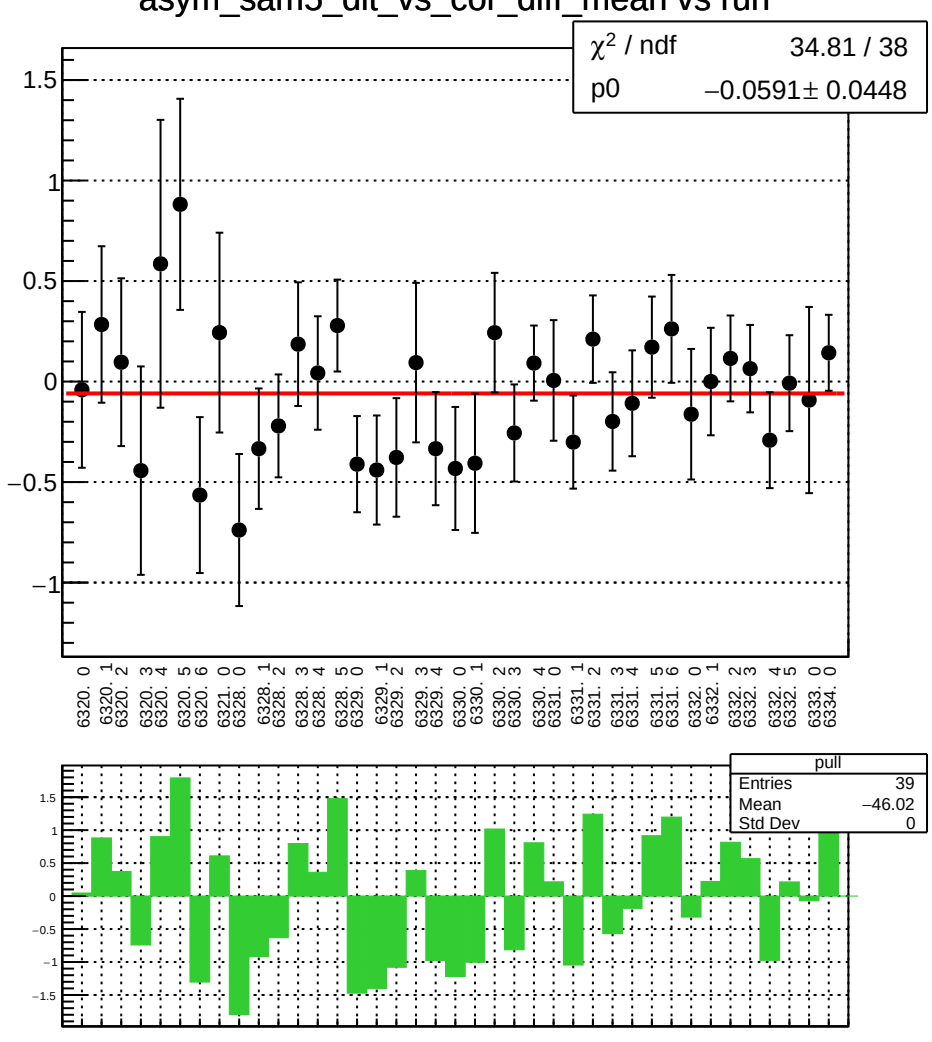

pull1D
Entries 39
Mean −0.01592
Std Dev 0.9039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

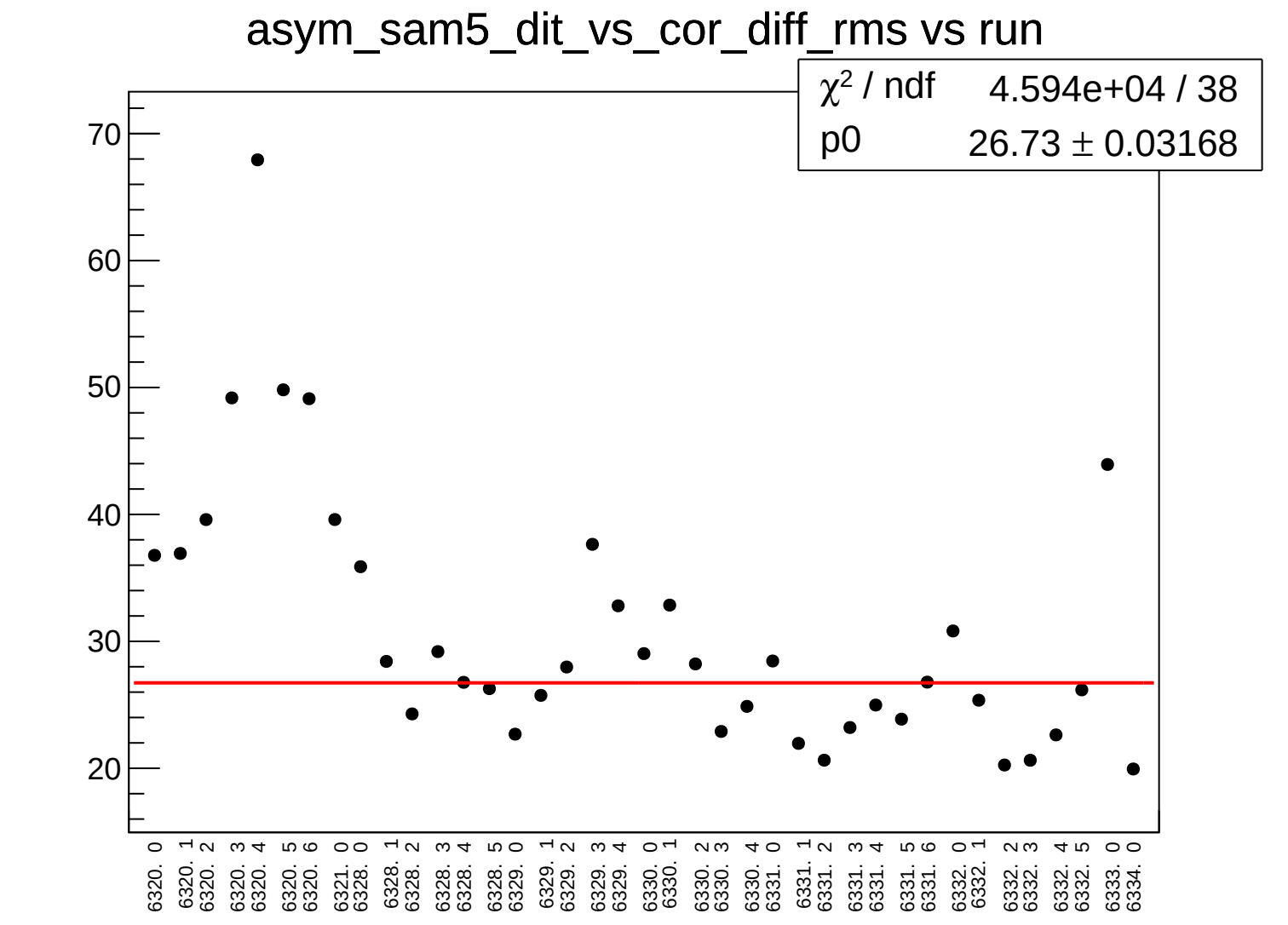

asym_sam5_rms vs run
χ² / ndf 1.272e+04 / 38
p0 941.8 ± 1.091
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

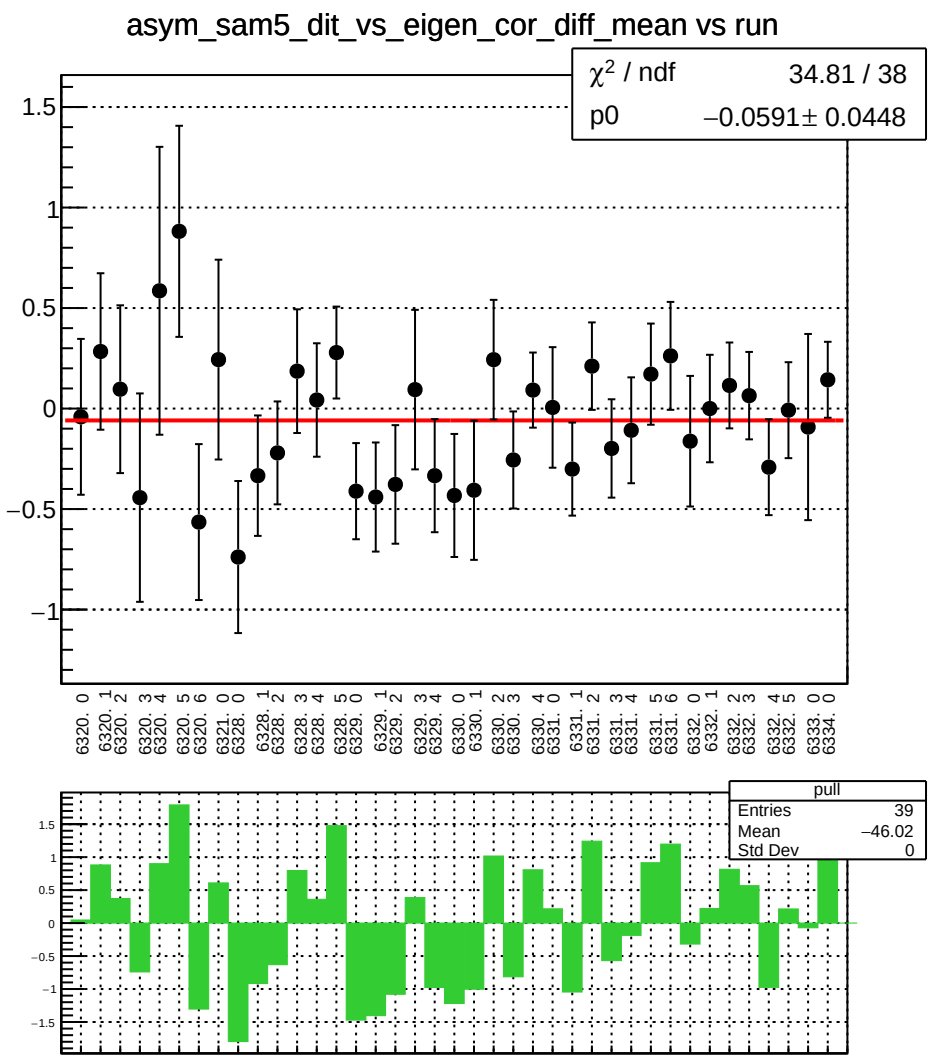

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 49.5 / 38
p0 −5.209e−14 ± 3.408e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.78
Std Dev 10.03
2
1
0
−1
−2

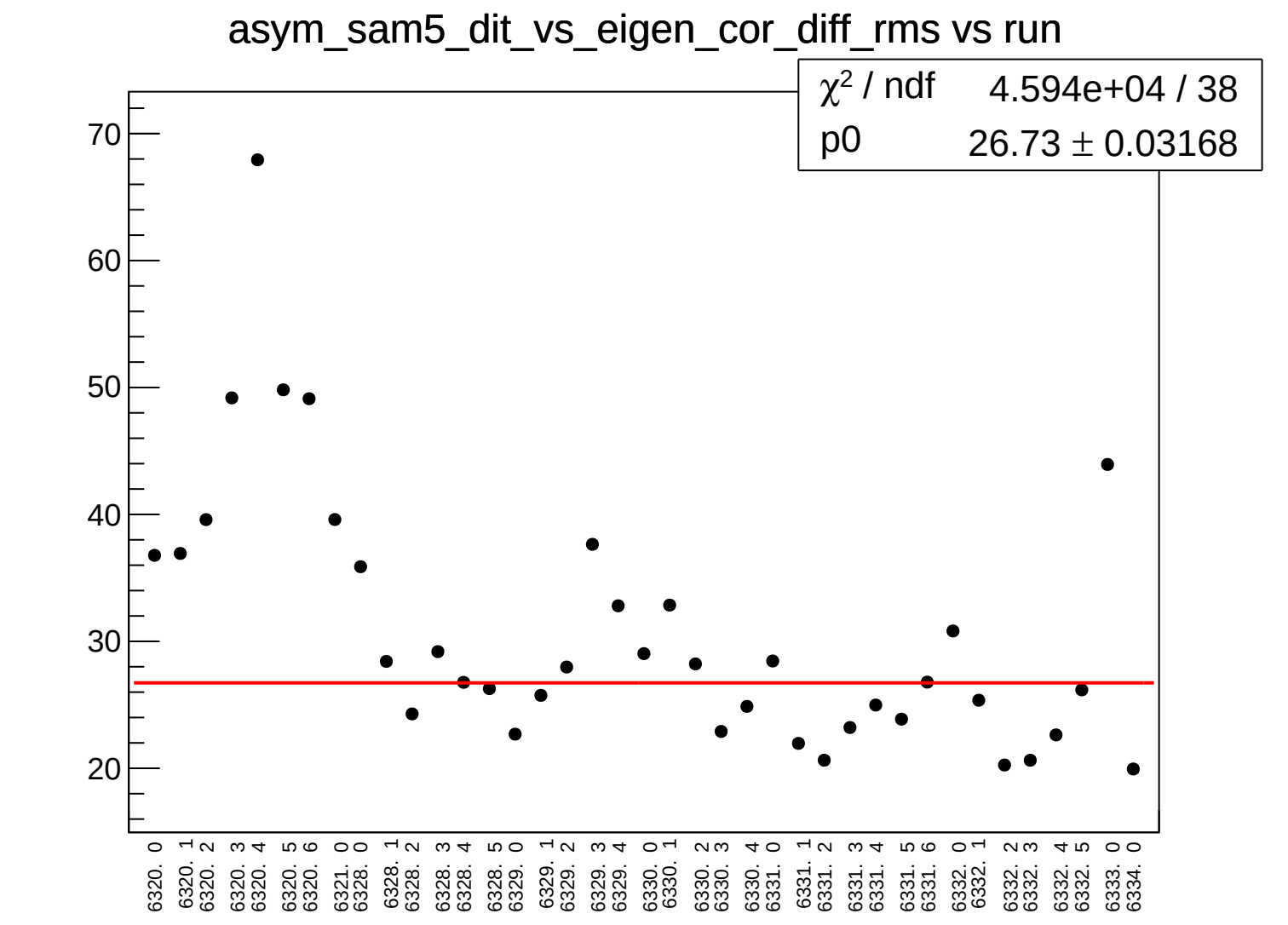

pull1D
Entries 39
Mean −0.3564
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

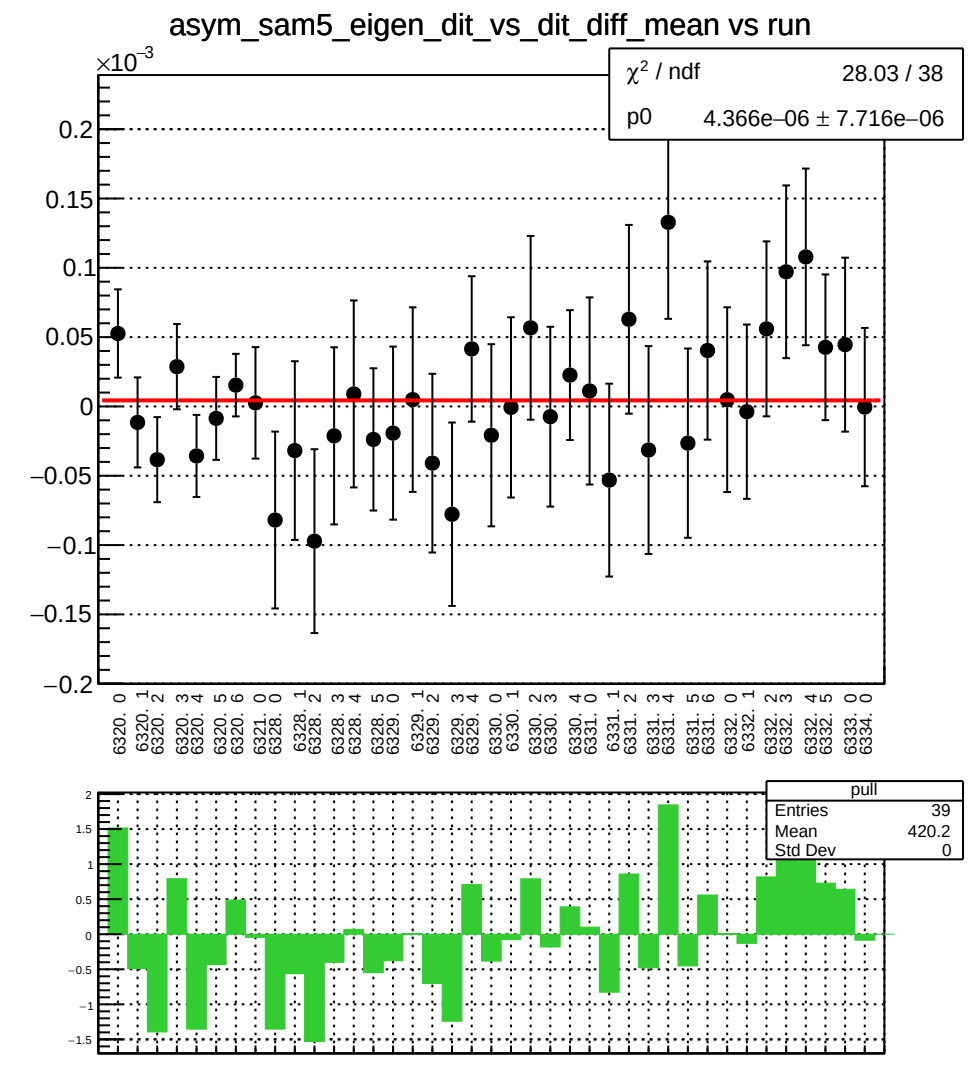

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 5.859e+05 / 38
p0 1e−11 ± 2.41e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

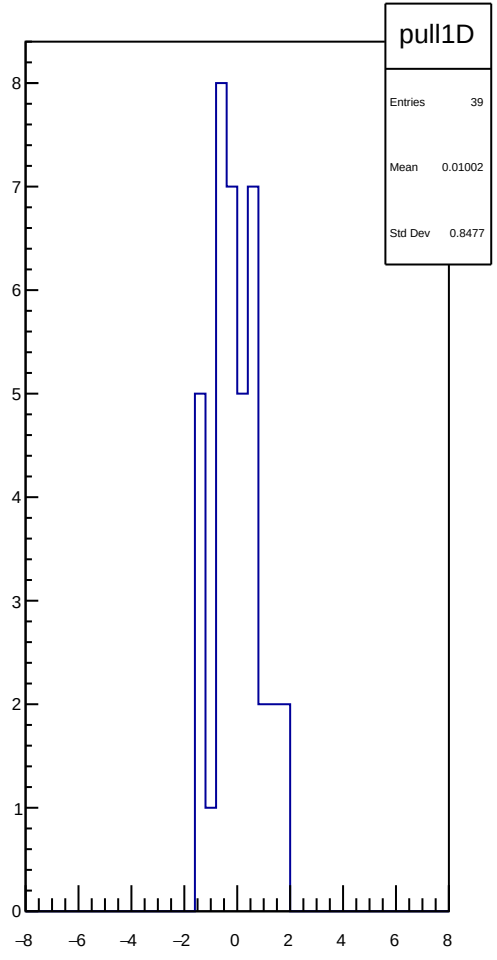

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 −0.0591± 0.0448
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01588
Std Dev 0.9447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

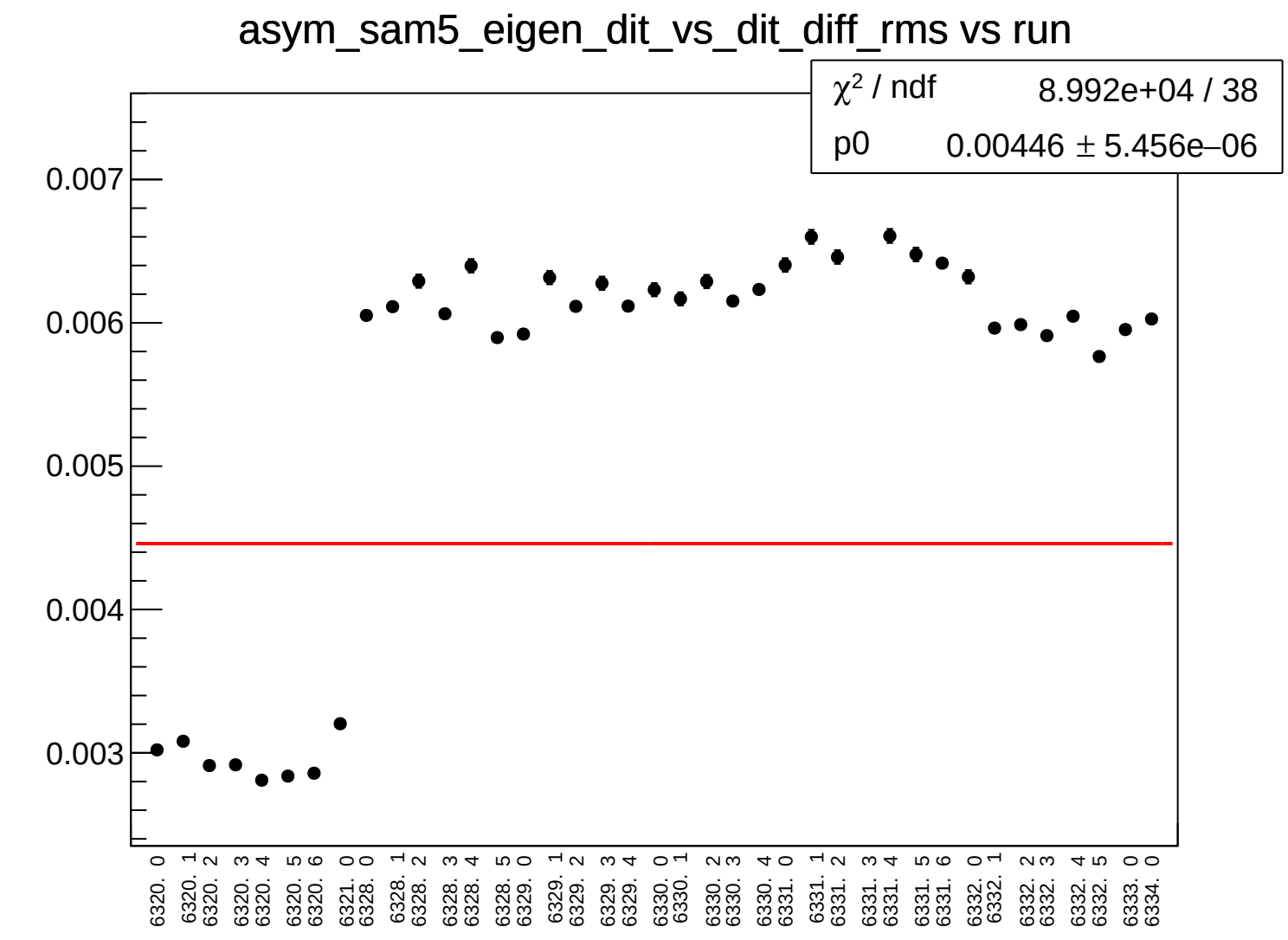

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.594e+04 / 38
p0 26.73 ± 0.03168
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

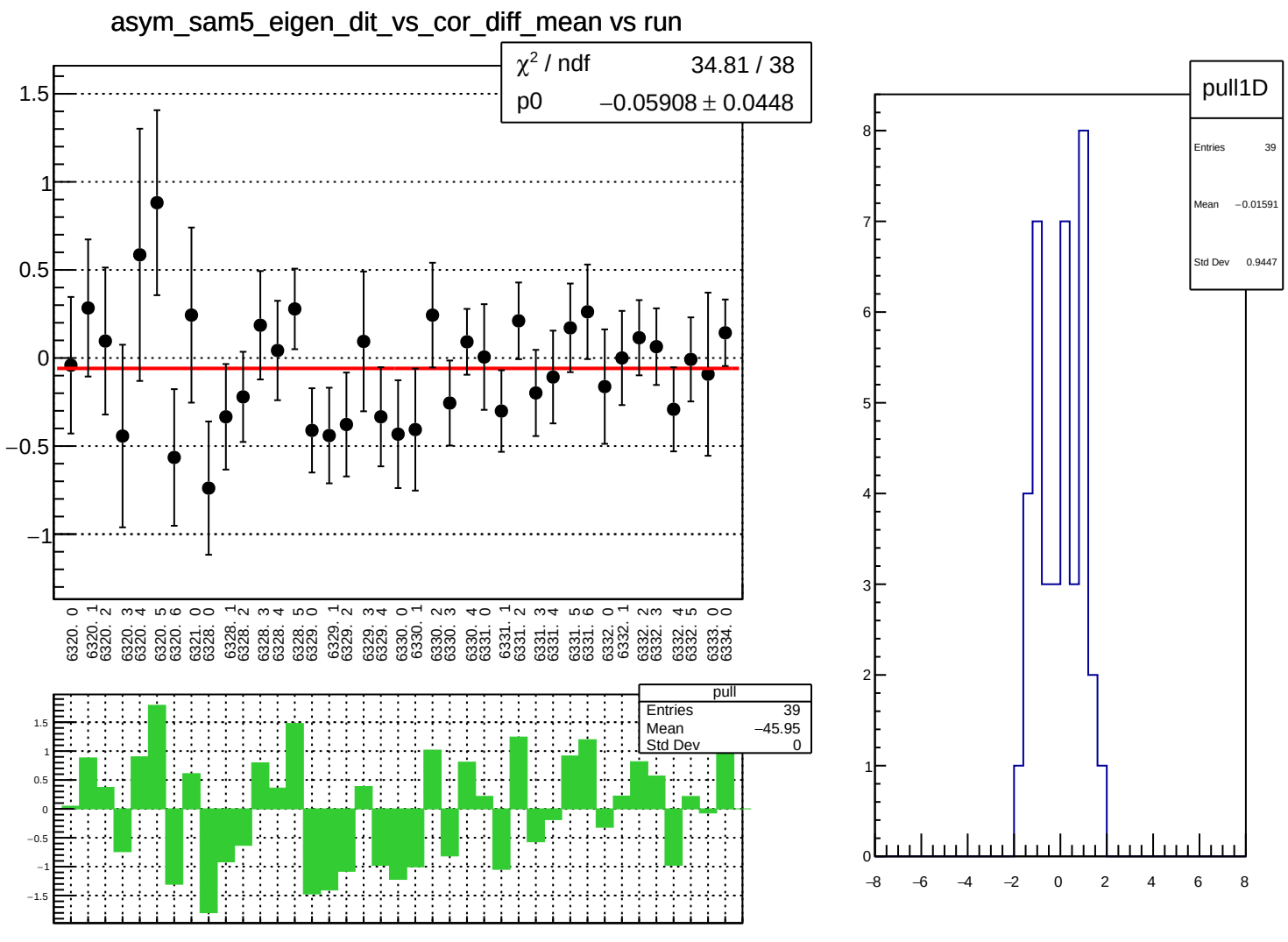

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 −0.0591± 0.0448
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01588
Std Dev 0.9447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

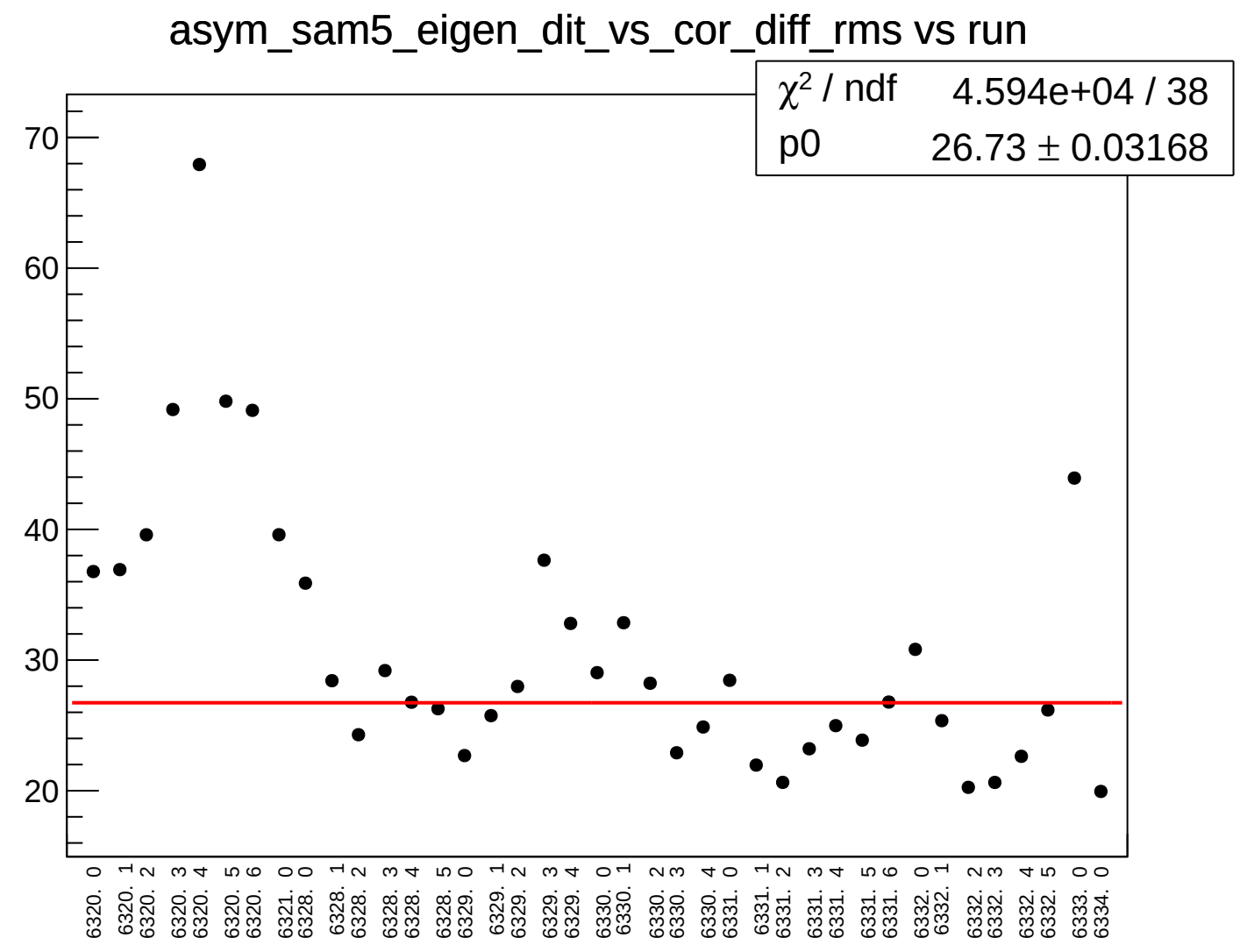

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.594e+04 / 38
p0 26.73 ± 0.03168
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

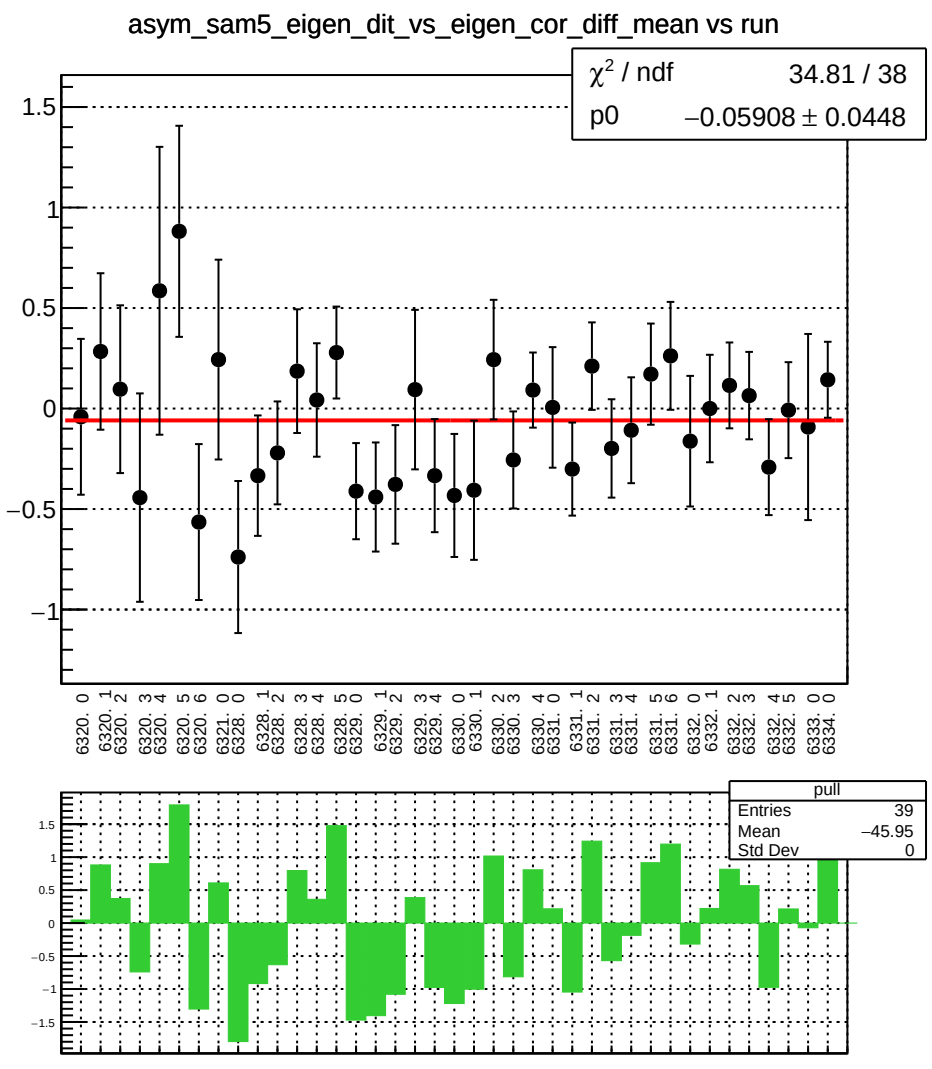

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.03 / 38
p0 4.366e−06 ± 7.716e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 420.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

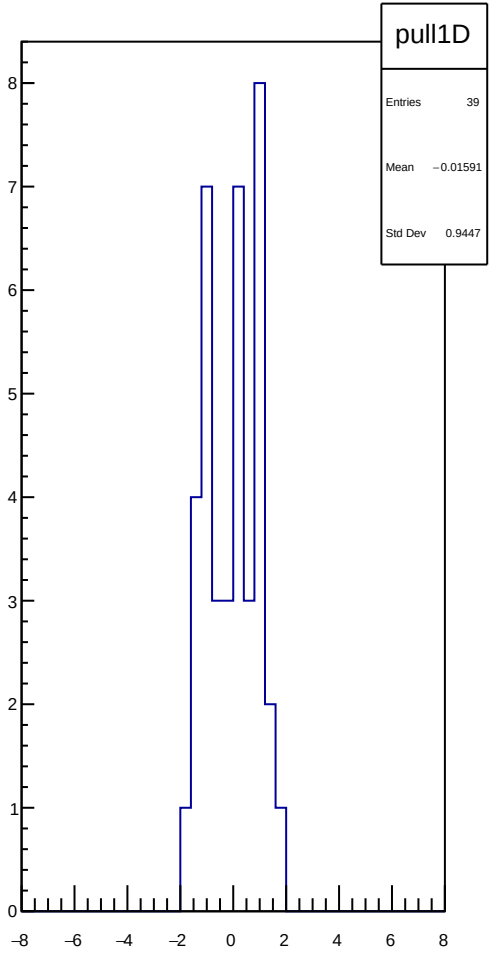

pull1D
Entries 39
Mean 0.01002
Std Dev 0.8477
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

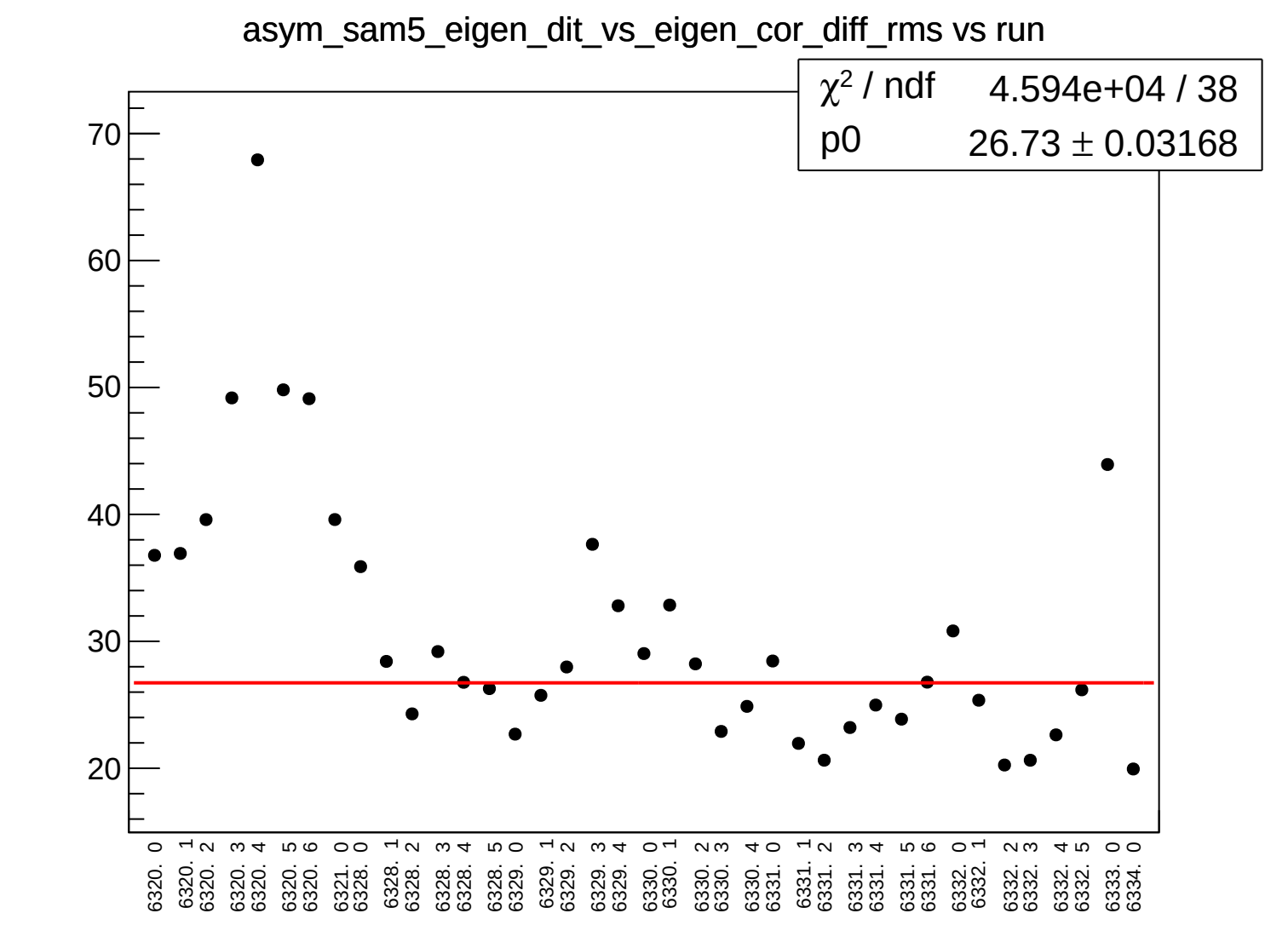

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.992e+04 / 38
p0 0.00446 ± 5.456e–06
0.007
0.006
0.005
0.004
0.003
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

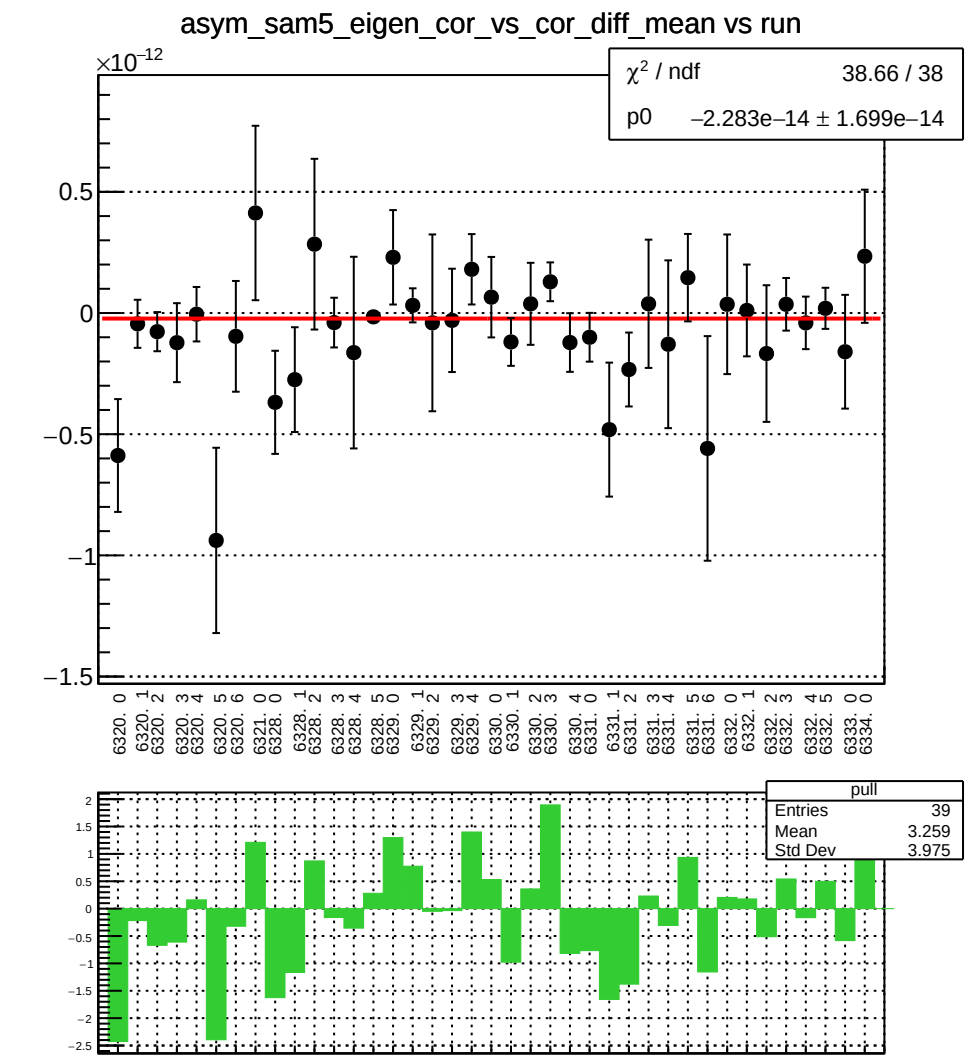

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 −0.05908 ± 0.0448
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01591
Std Dev 0.9447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

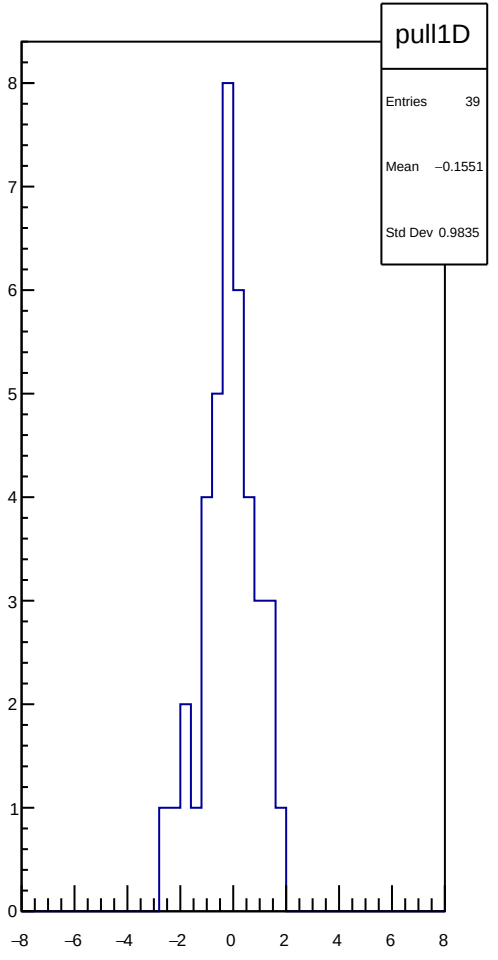

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.594e+04 / 38
p0 26.73 ± 0.03168
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

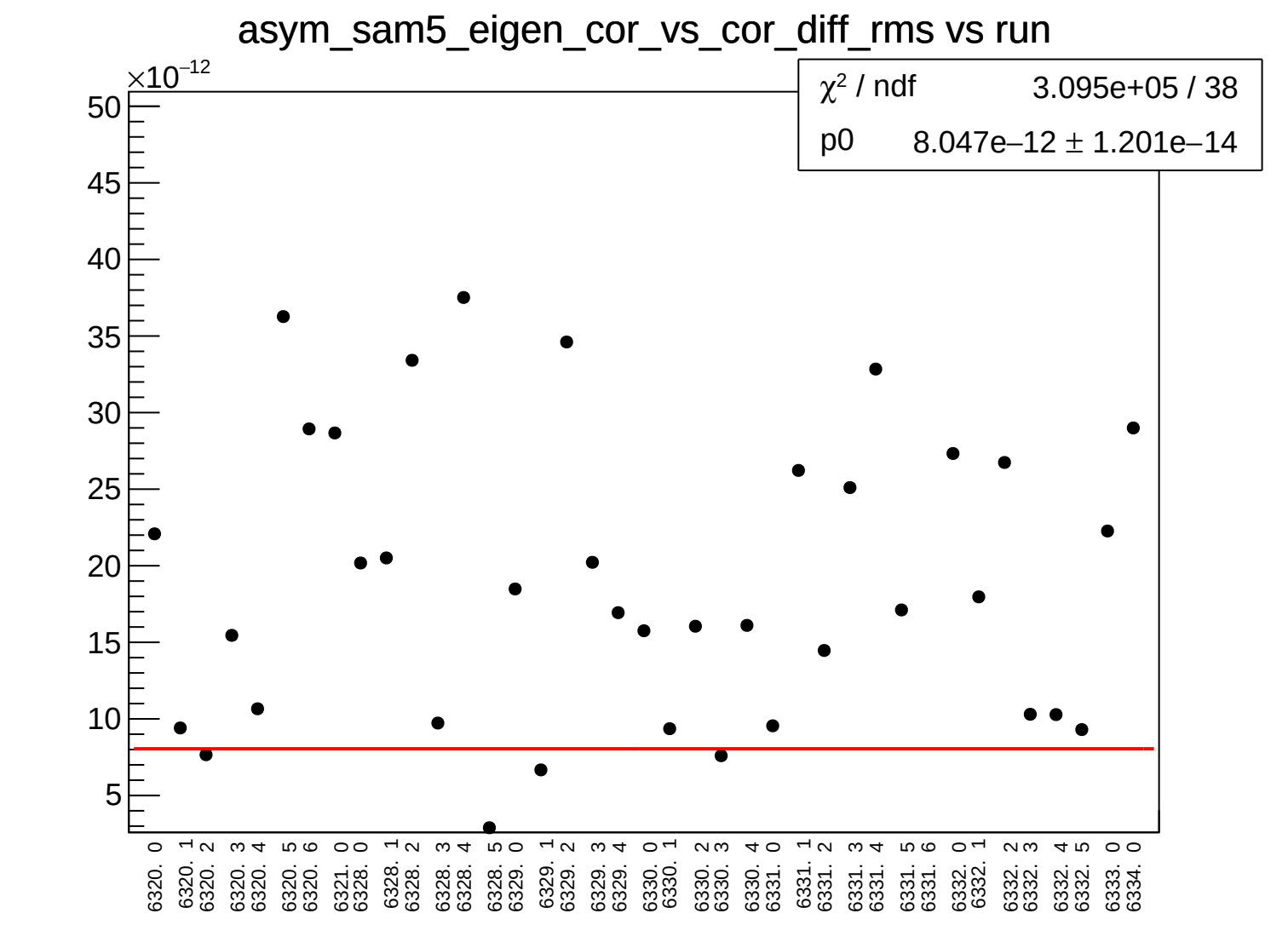

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 −0.05908 ± 0.0448
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

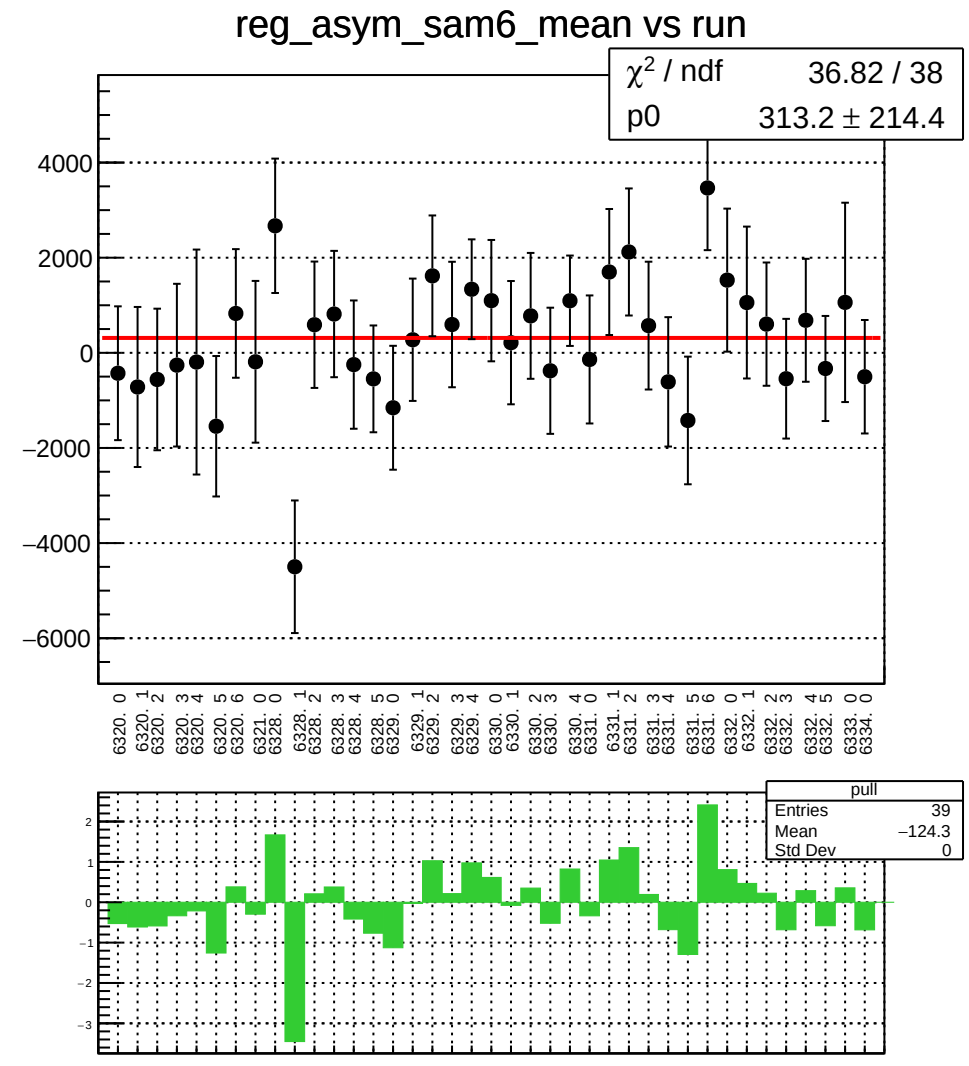

pull1D
Entries 39
Mean −0.01591
Std Dev 0.9447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

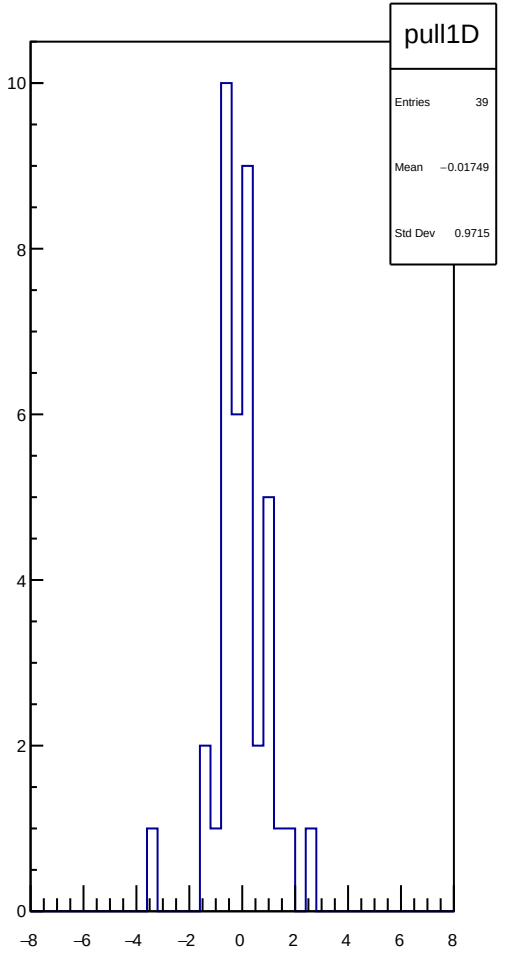

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.594e+04 / 38
p0 26.73 ± 0.03168
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

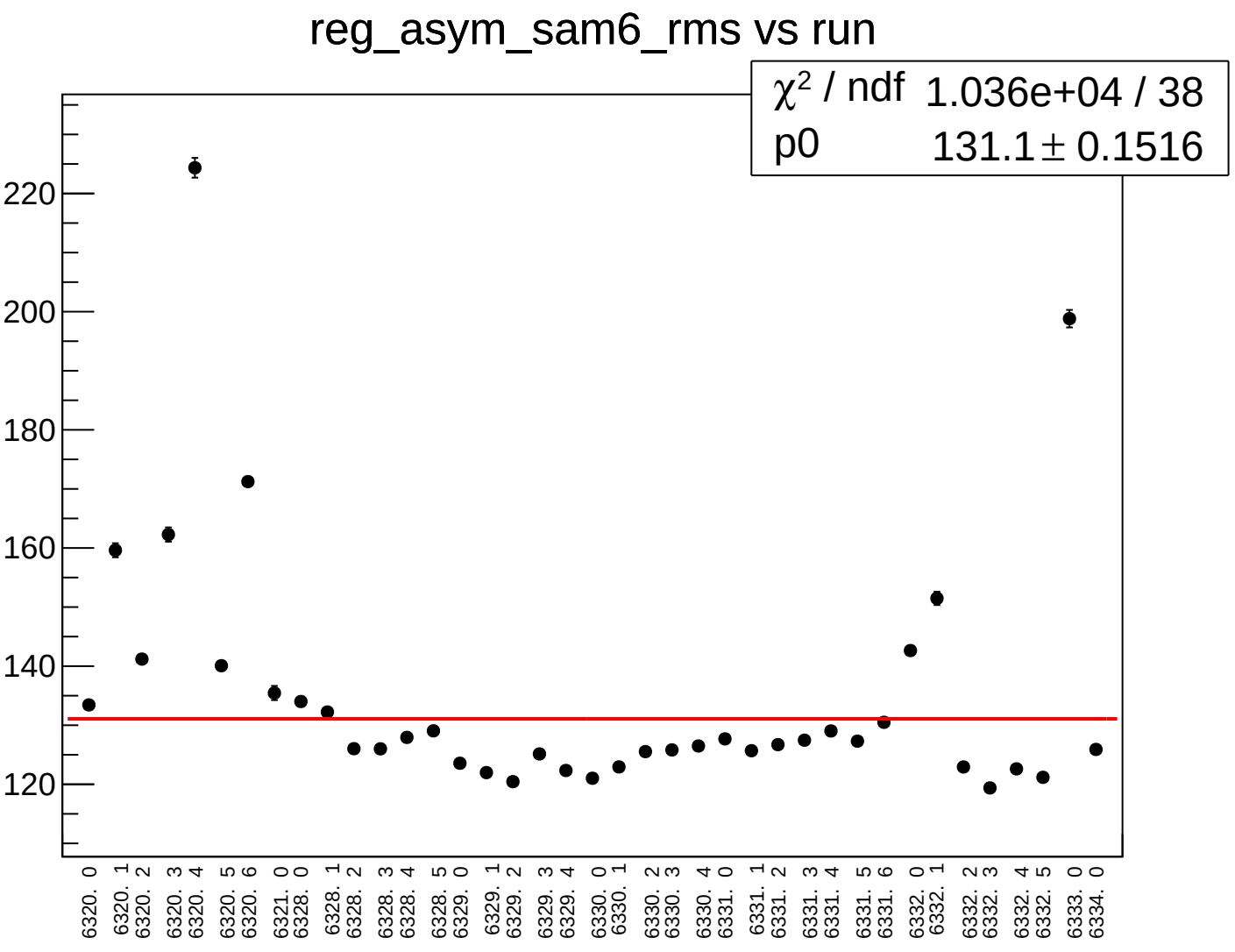

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.66 / 38
p0 −2.283e−14 ± 1.699e−14
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.259
Std Dev 3.975
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

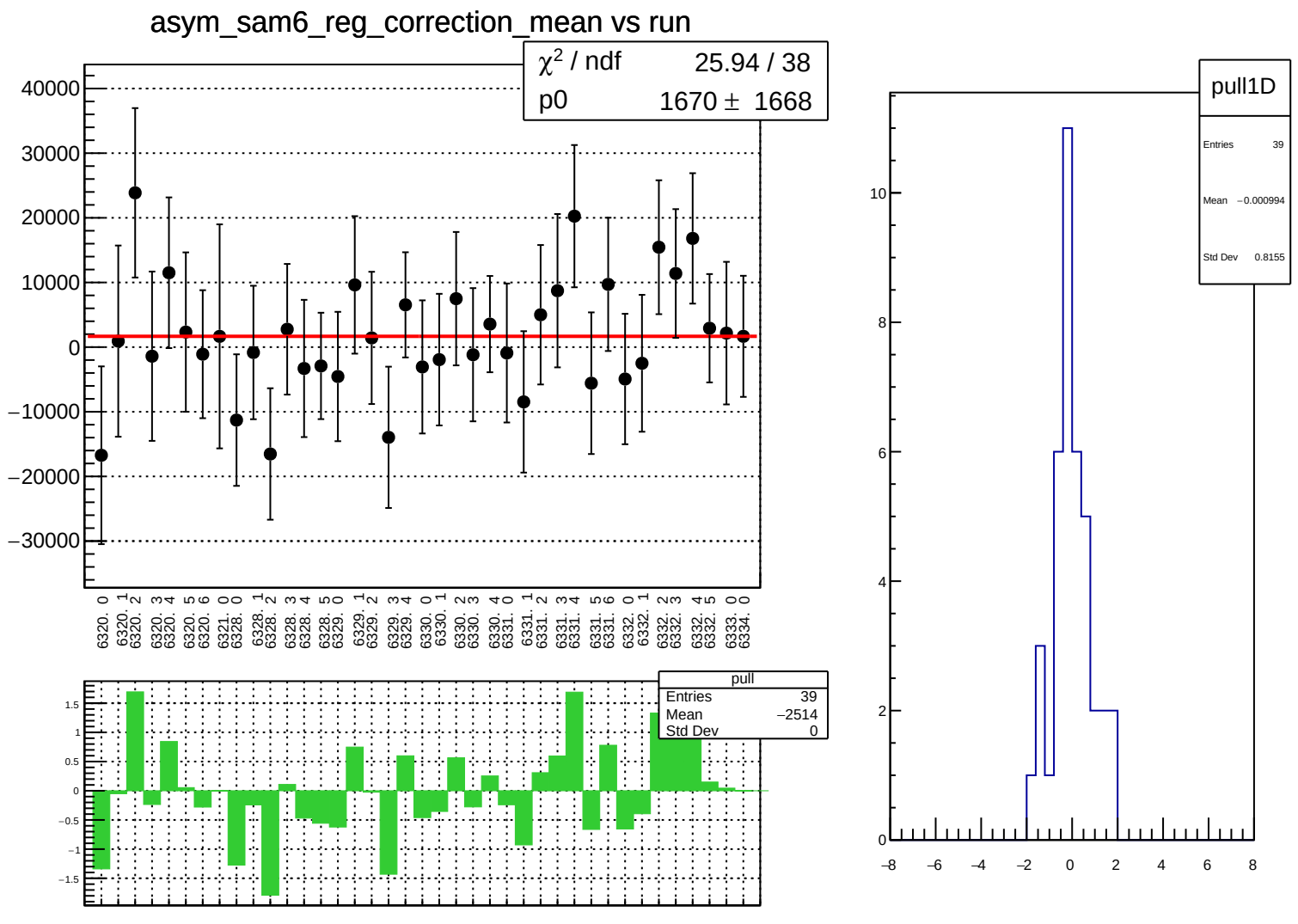

pull1D
Entries 39
Mean −0.1551
Std Dev 0.9835
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

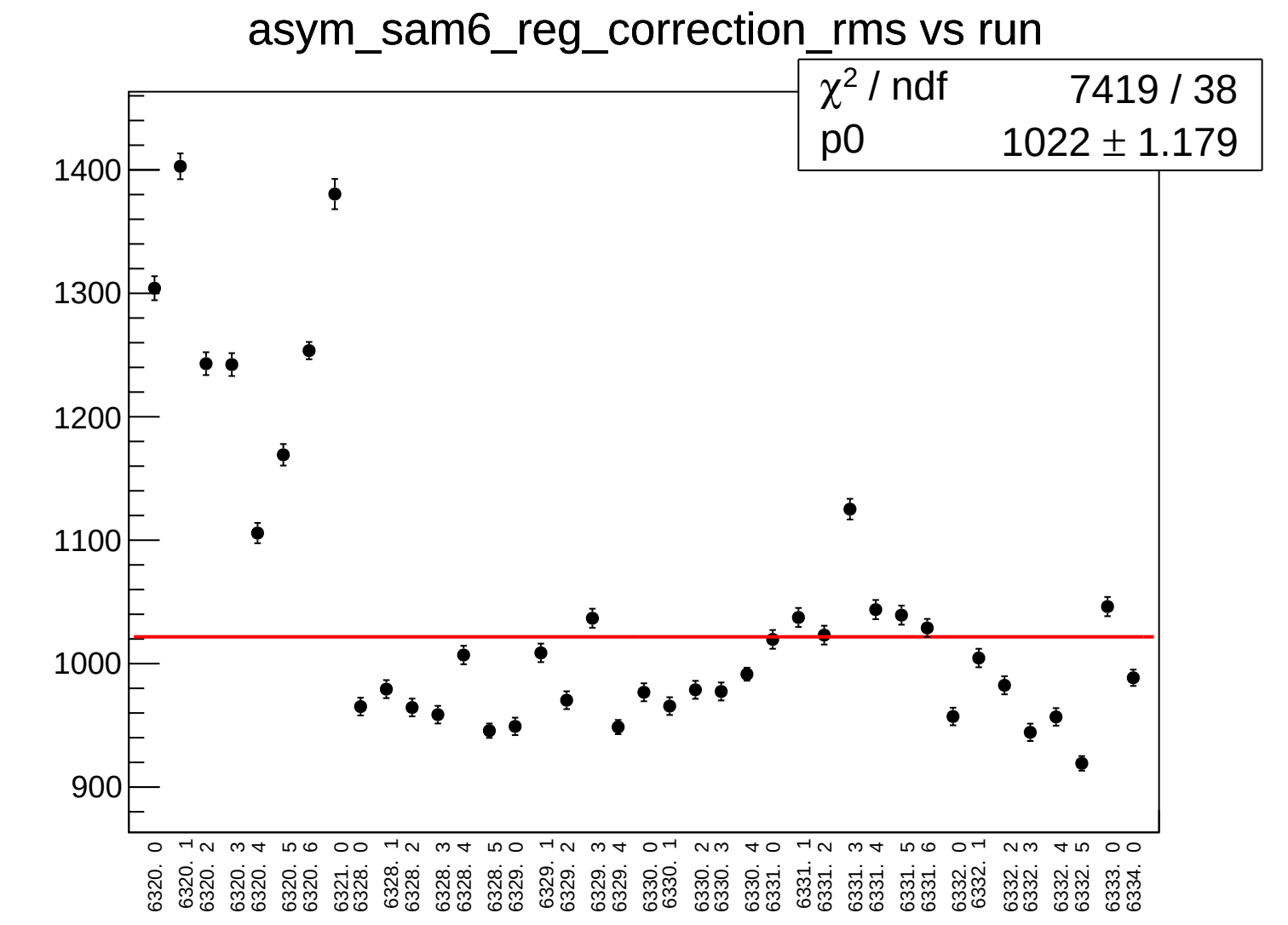

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.095e+05 / 38
p0 8.047e−12 ± 1.201e−14
50
45
40
35
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

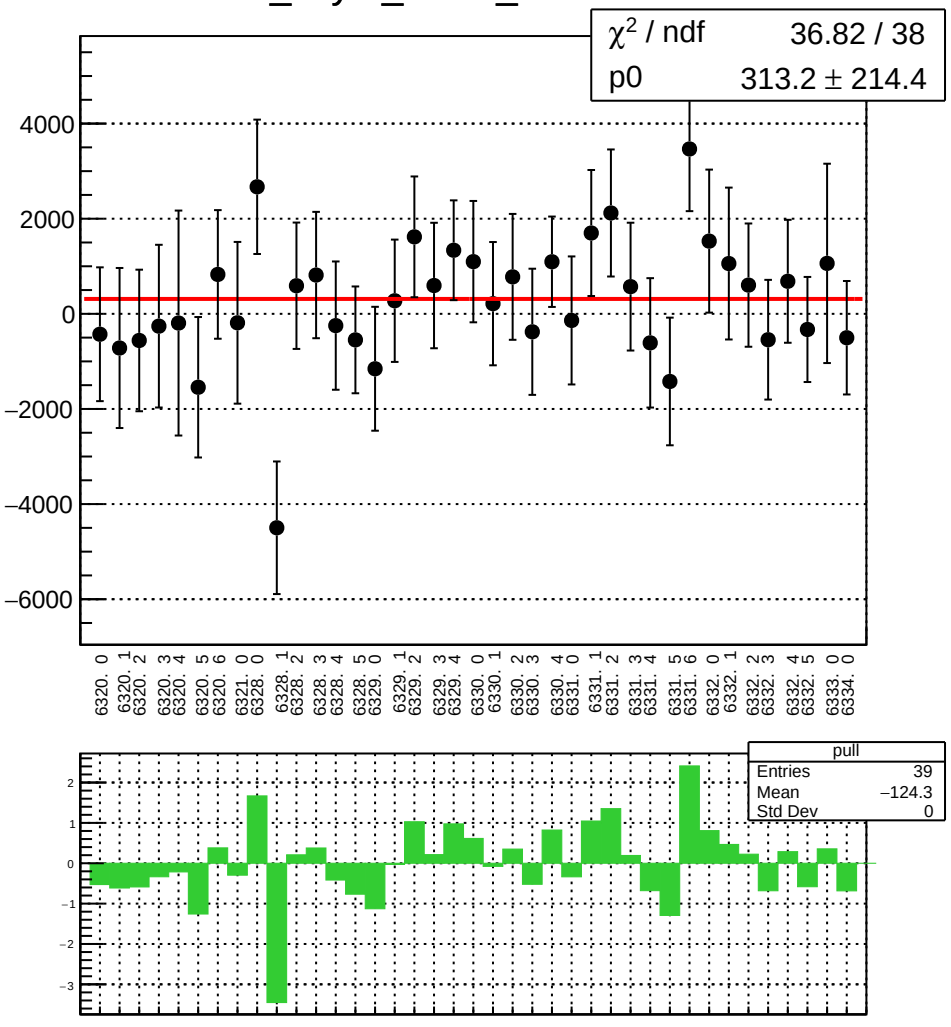

reg_asym_sam6_mean vs run
χ² / ndf 36.82 / 38
p0 313.2 ± 214.4
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −124.3
Std Dev 0
2
1
0
−1
−2
−3

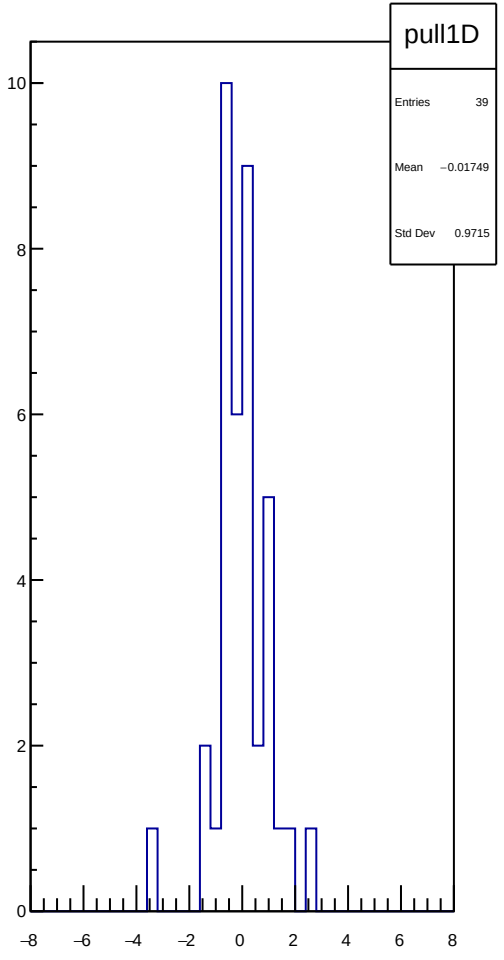

pull1D
Entries 39
Mean −0.01749
Std Dev 0.9715
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

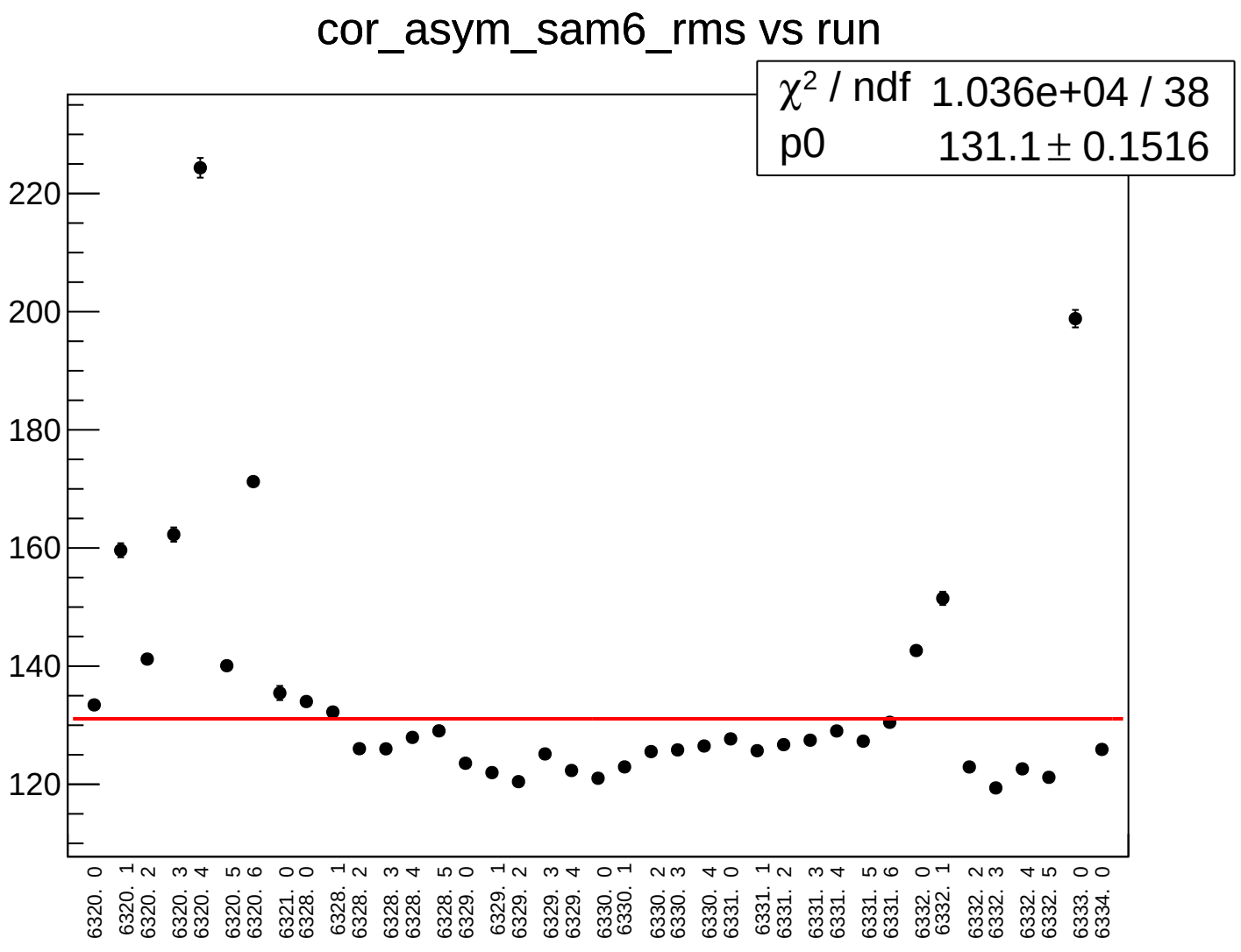

reg_asym_sam6_rms vs run
χ² / ndf 1.036e+04 / 38
p0 131.1 ± 0.1516
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

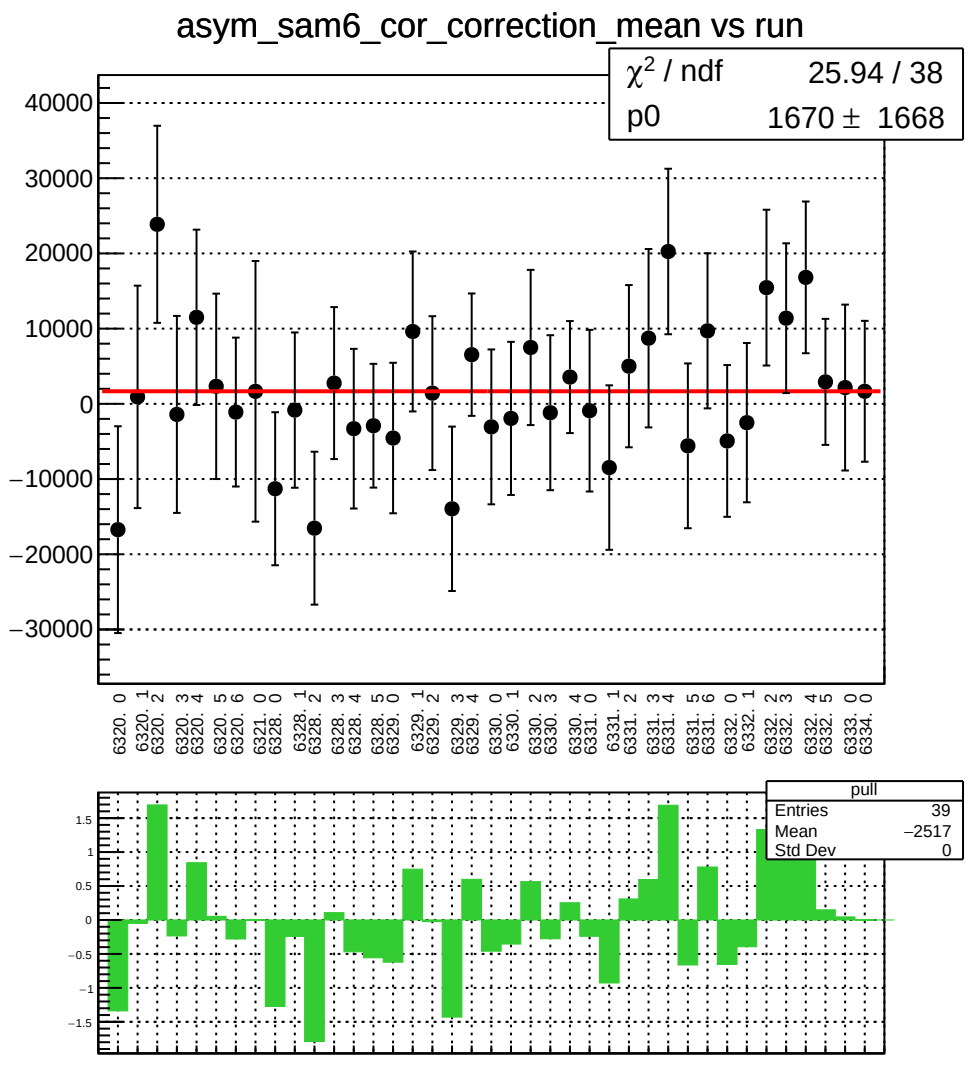

asym_sam6_reg_correction_mean vs run
χ² / ndf 25.94 / 38
p0 1670 ± 1668
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2514
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.000994
Std Dev 0.8155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

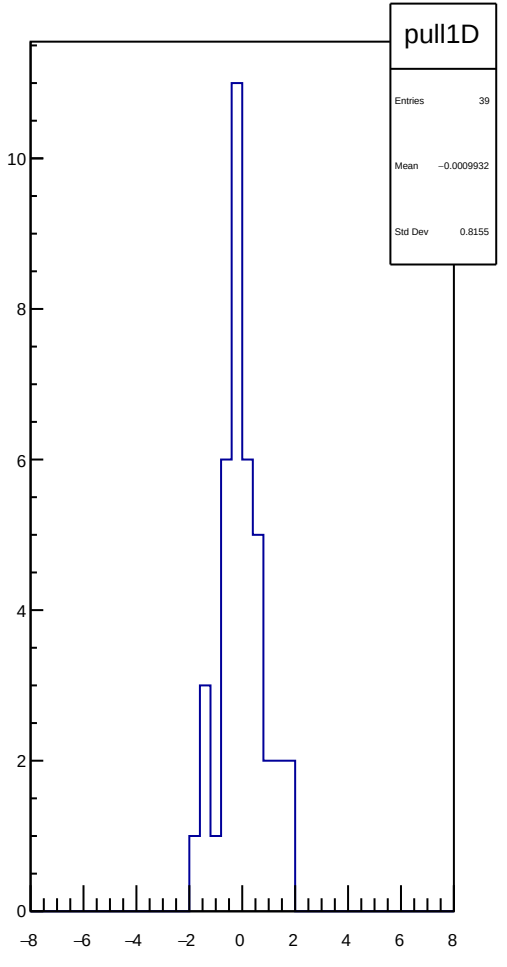

asym_sam6_reg_correction_rms vs run
χ² / ndf 7419 / 38
p0 1022 ± 1.179
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

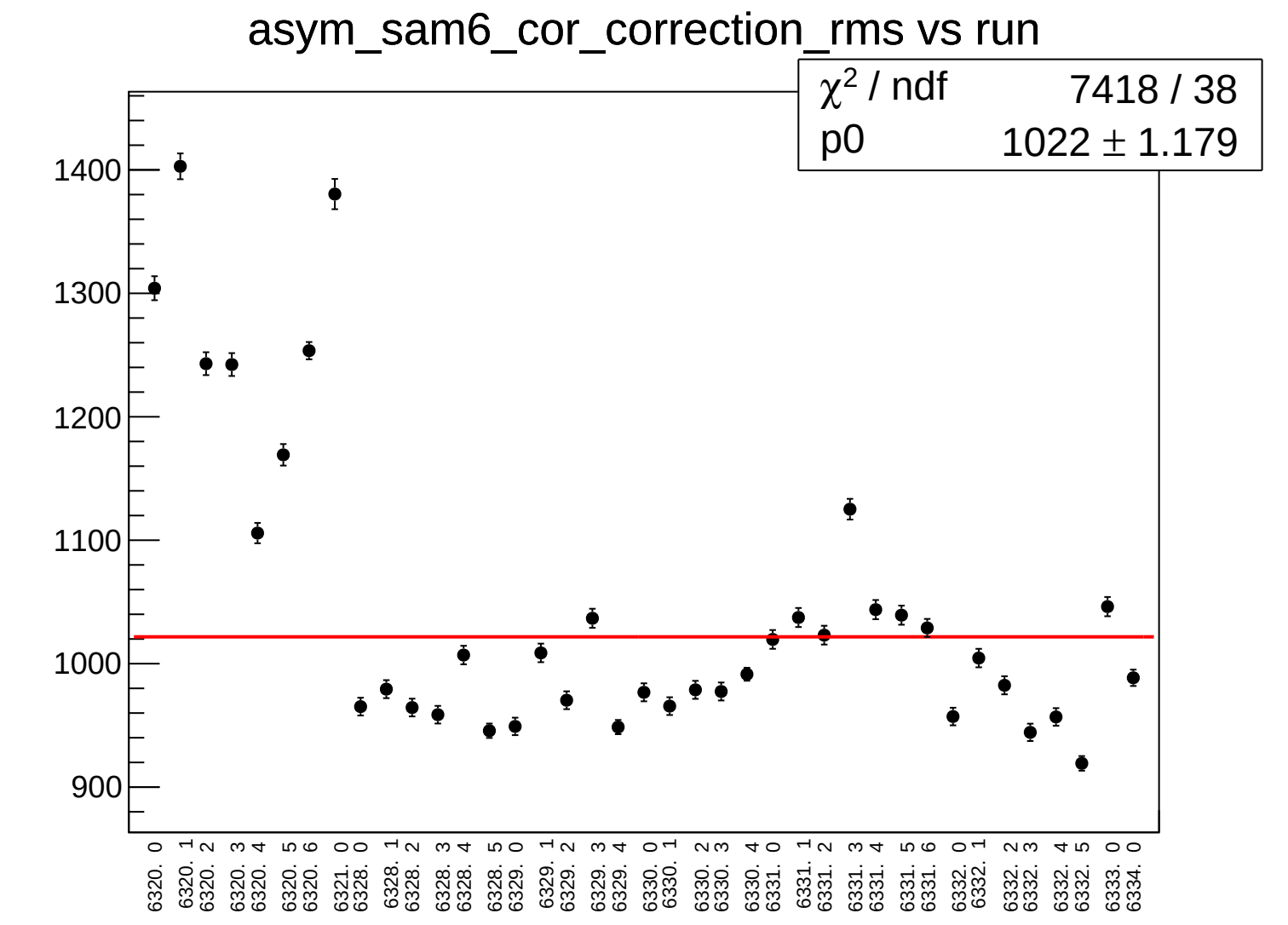

cor_asym_sam6_mean vs run
χ² / ndf 36.82 / 38
p0 313.2 ± 214.4
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −124.3
Std Dev 0
2
1
0
−1
−2
−3

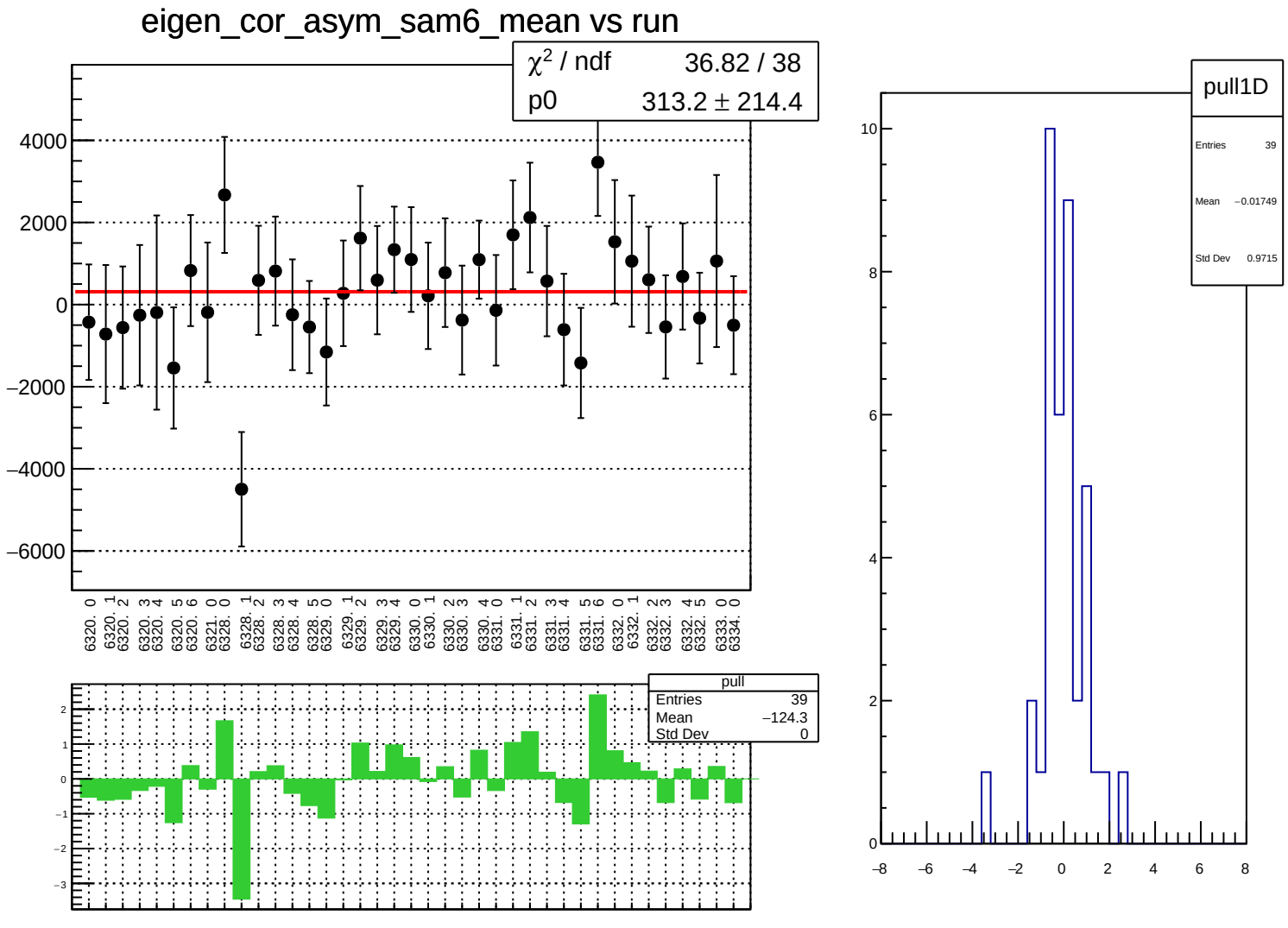

pull1D
Entries 39
Mean −0.01749
Std Dev 0.9715
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

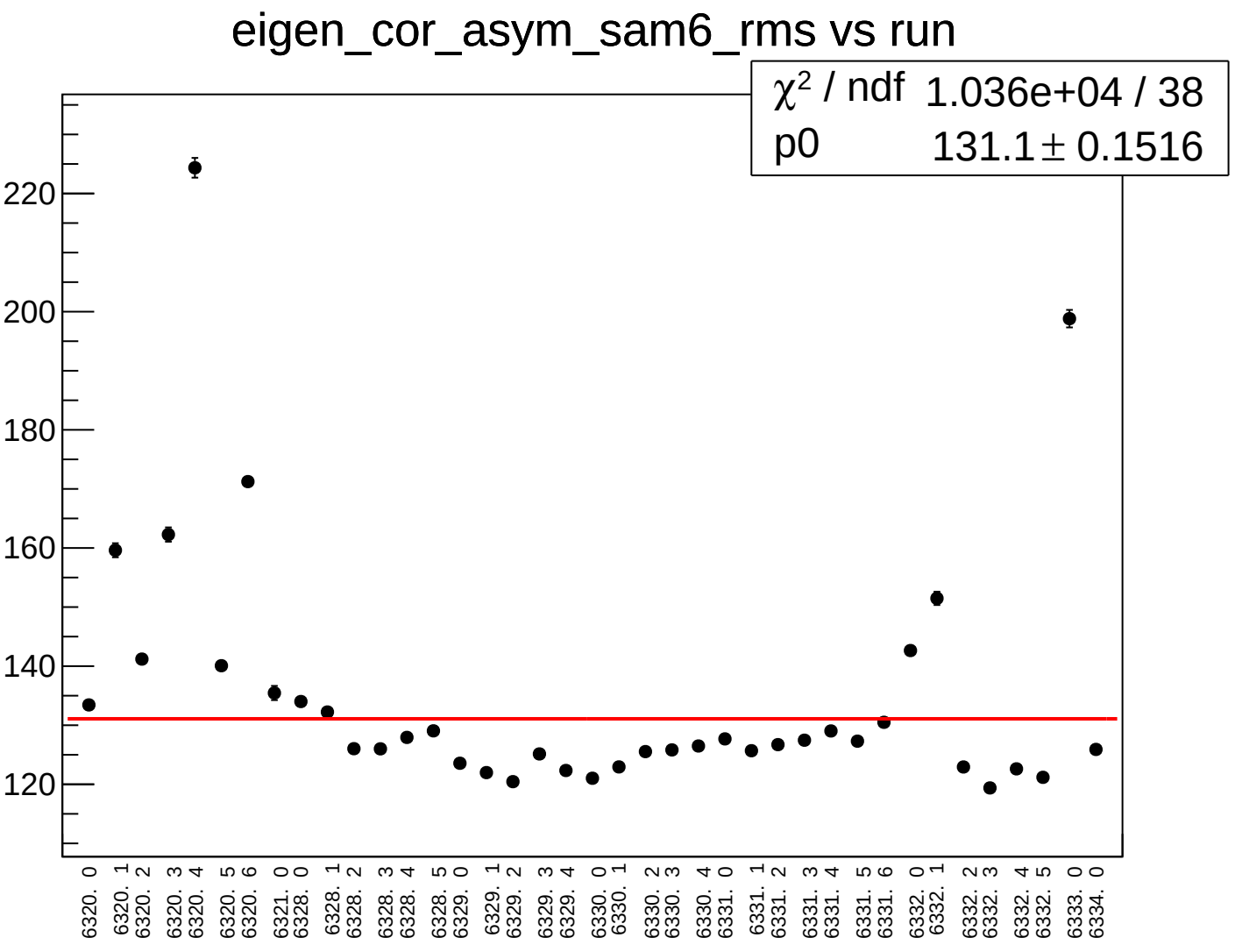

cor_asym_sam6_rms vs run
χ² / ndf 1.036e+04 / 38
p0 131.1 ± 0.1516
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

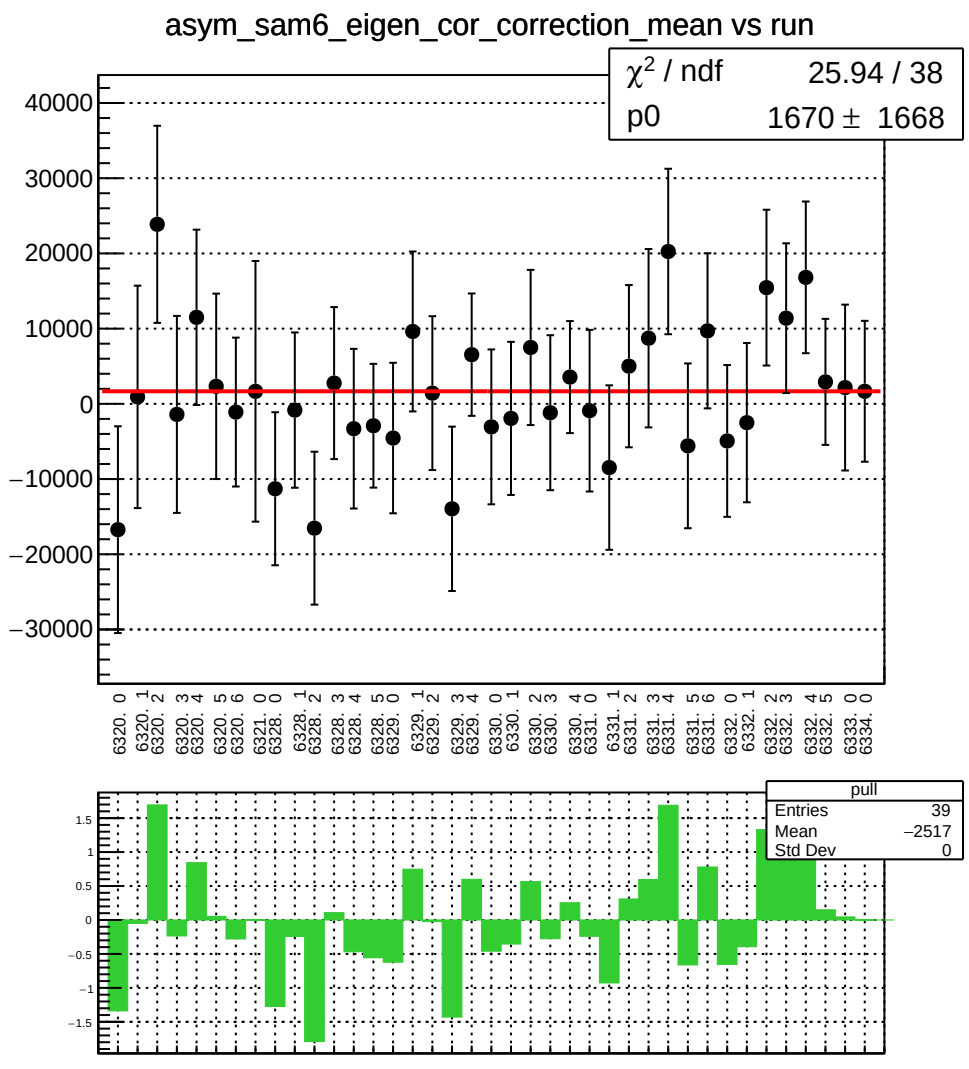

asym_sam6_cor_correction_mean vs run
χ² / ndf 25.94 / 38
p0 1670 ± 1668
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2517
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

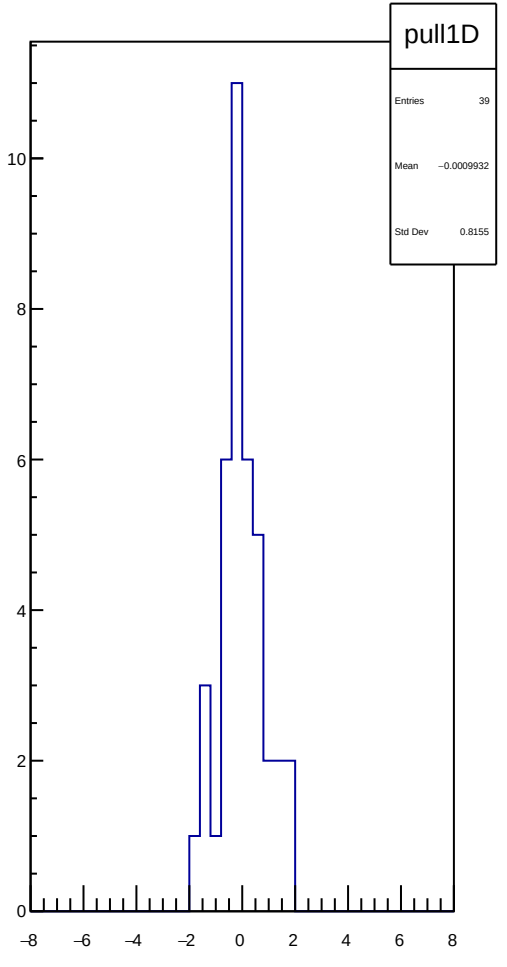

pull1D
Entries 39
Mean −0.0009932
Std Dev 0.8155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 7418 / 38
p0 1022 ± 1.179
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam6_mean vs run
χ² / ndf 36.82 / 38
p0 313.2 ± 214.4
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −124.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01749
Std Dev 0.9715
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.036e+04 / 38
p0 131.1 ± 0.1516
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 25.94 / 38
p0 1670 ± 1668
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −2517
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.0009932
Std Dev 0.8155
10
8
6
4
2
0
−8
−6
−4
−2
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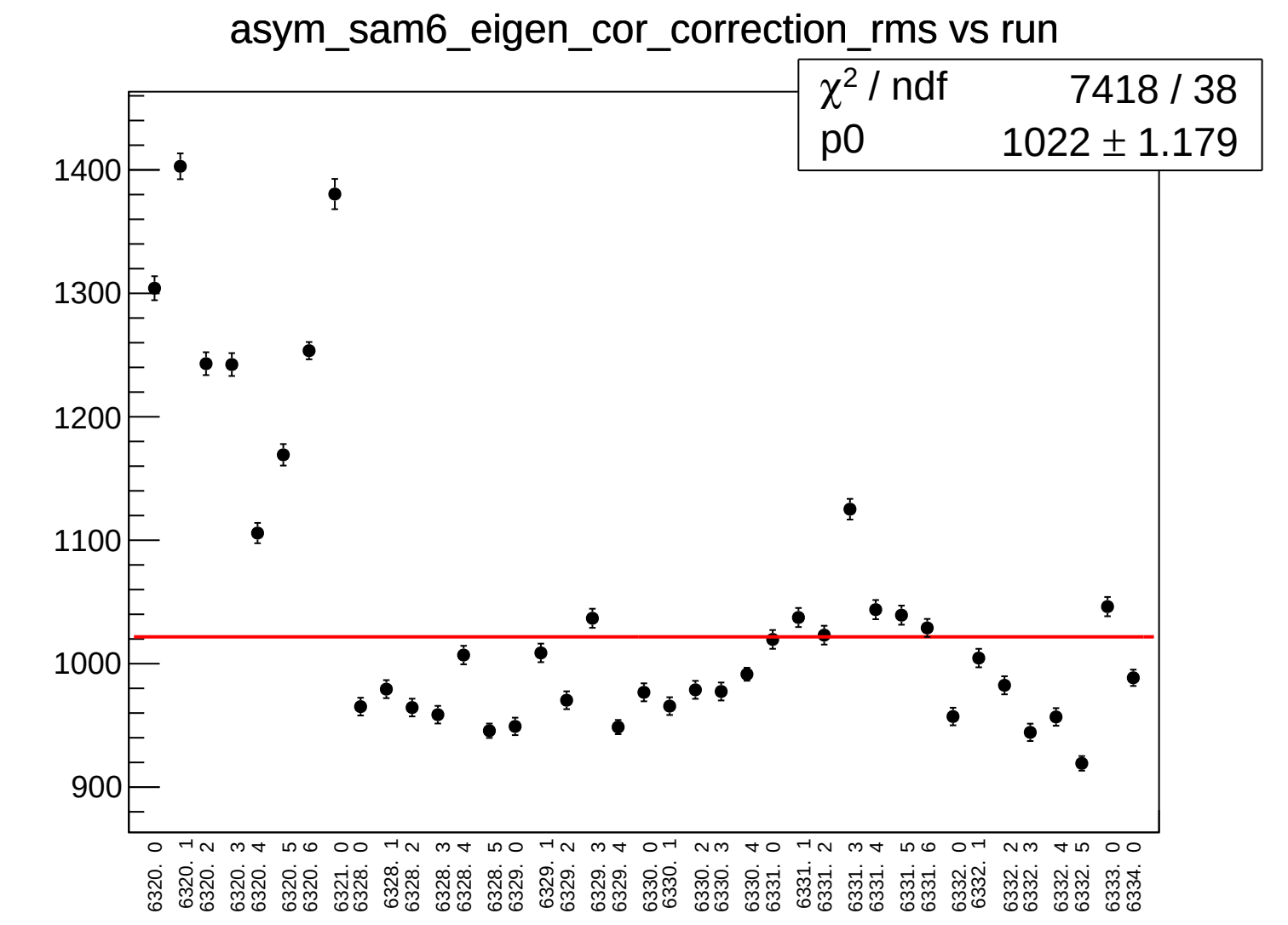
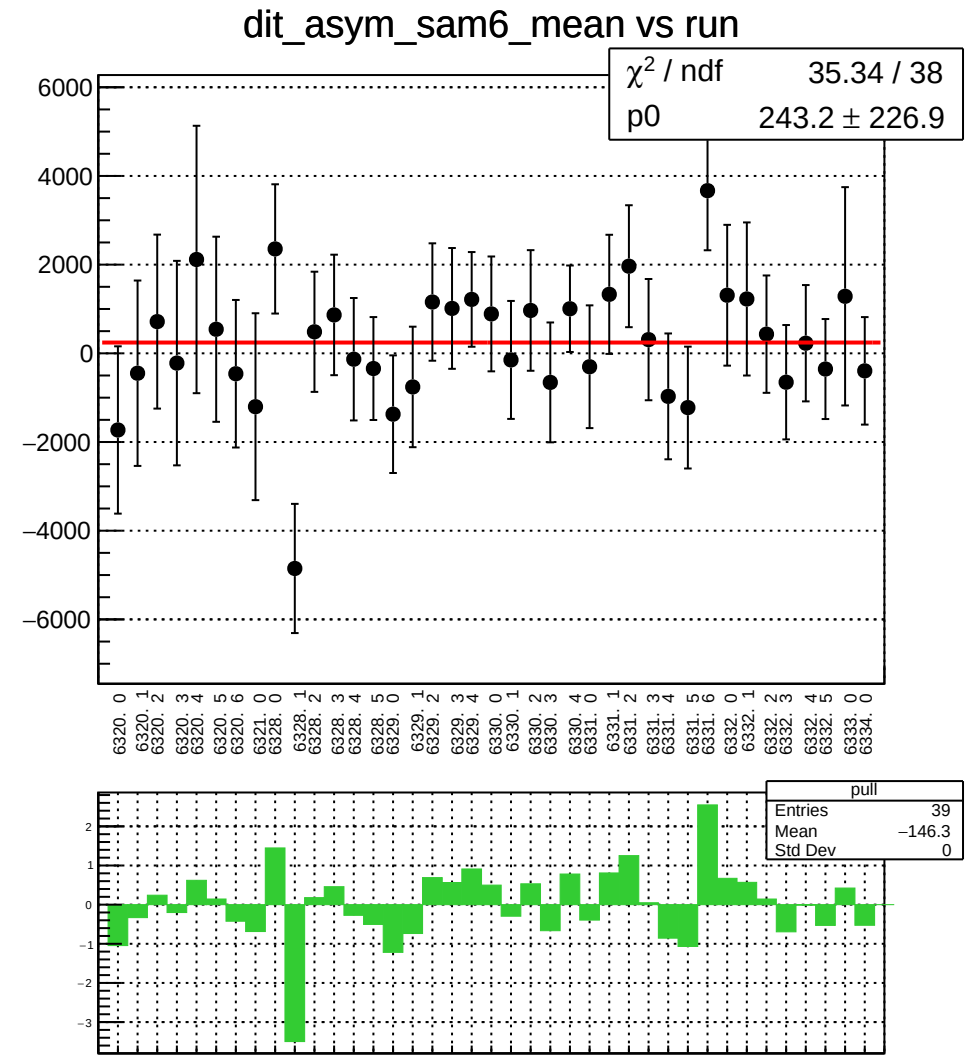
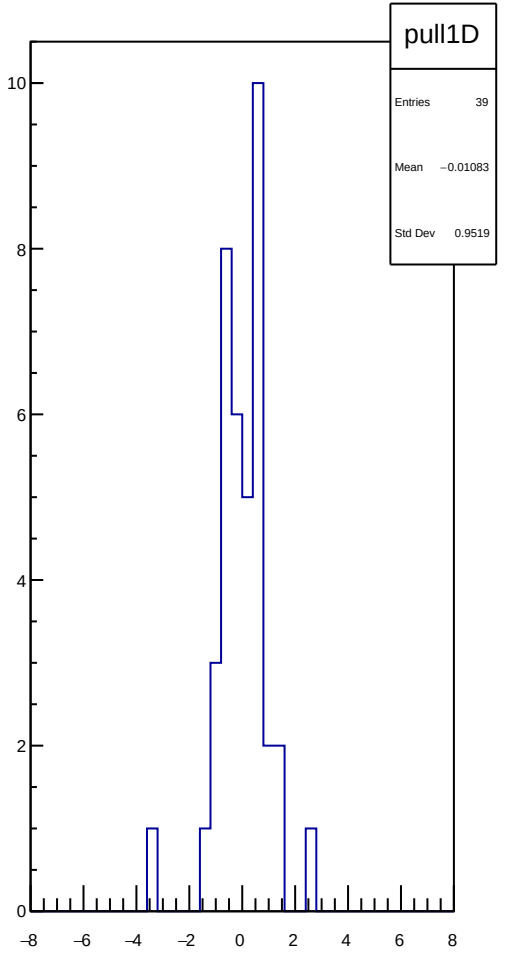
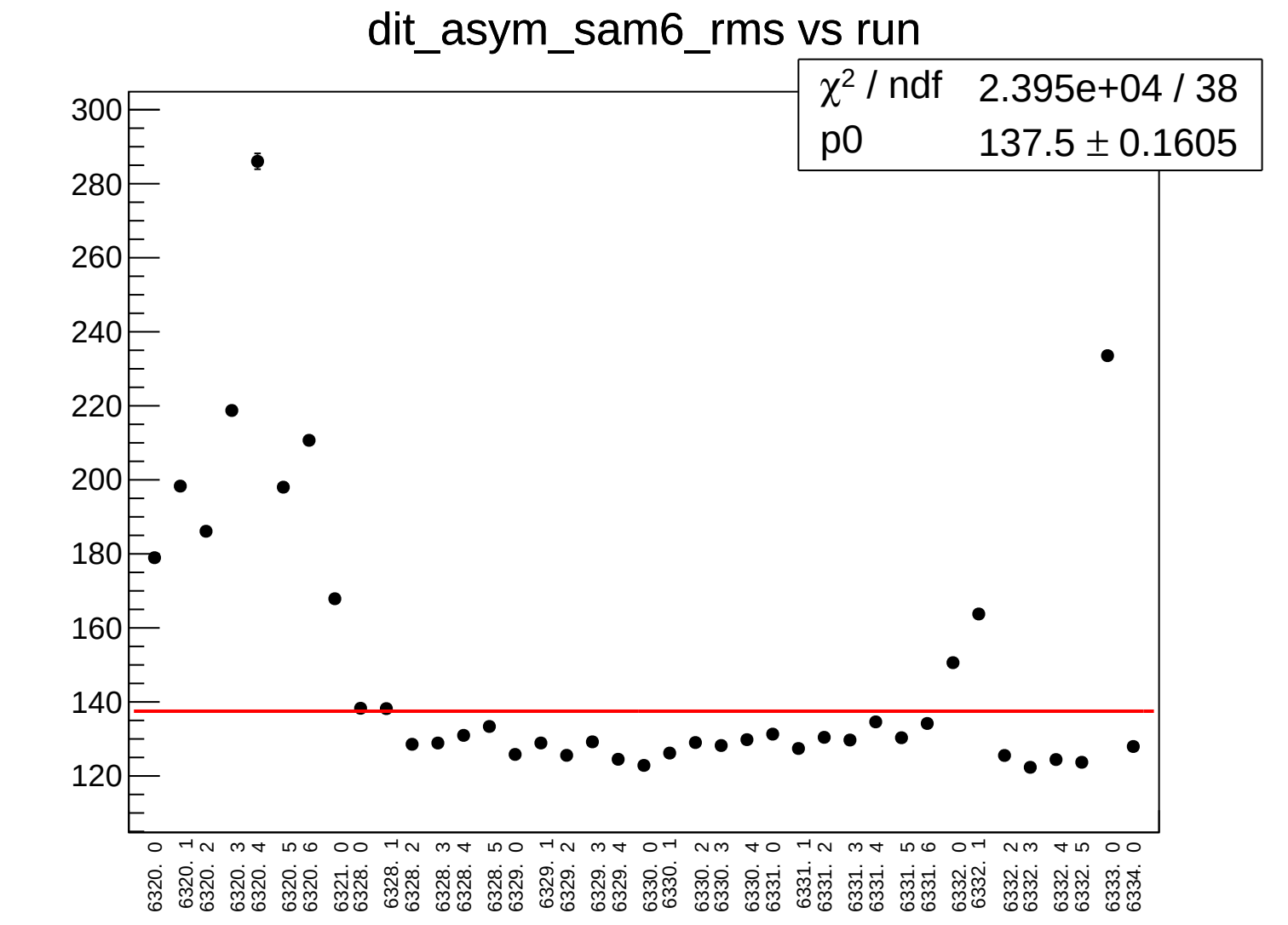
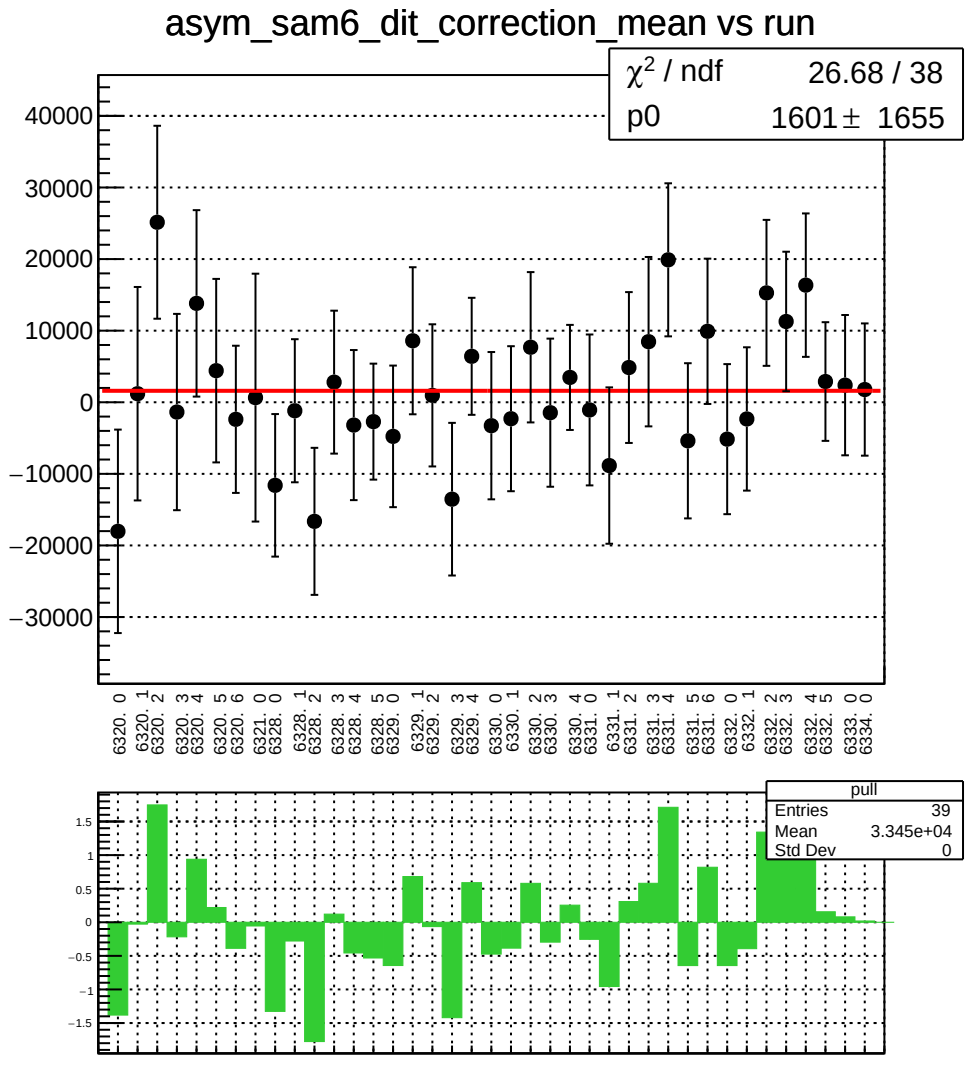
2
4
6
8

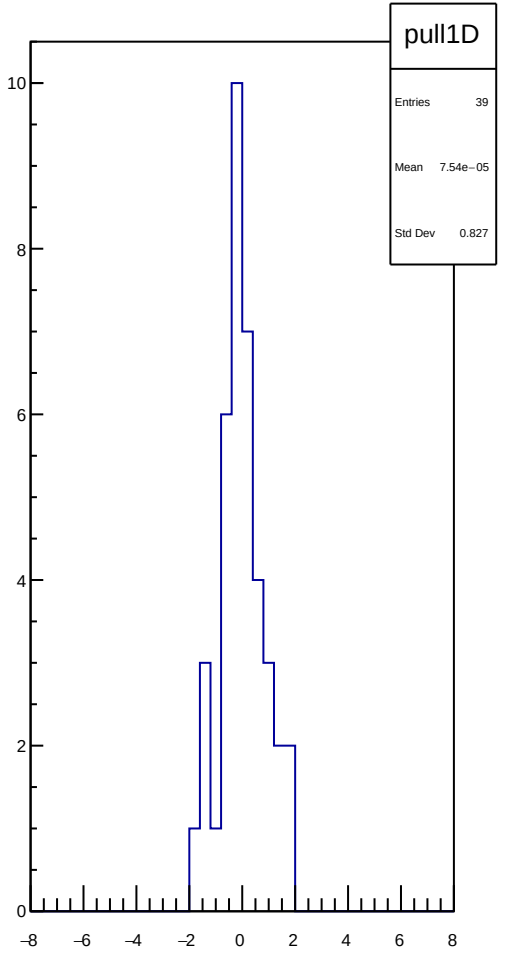

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 7418 / 38
p0 1022 ± 1.179
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

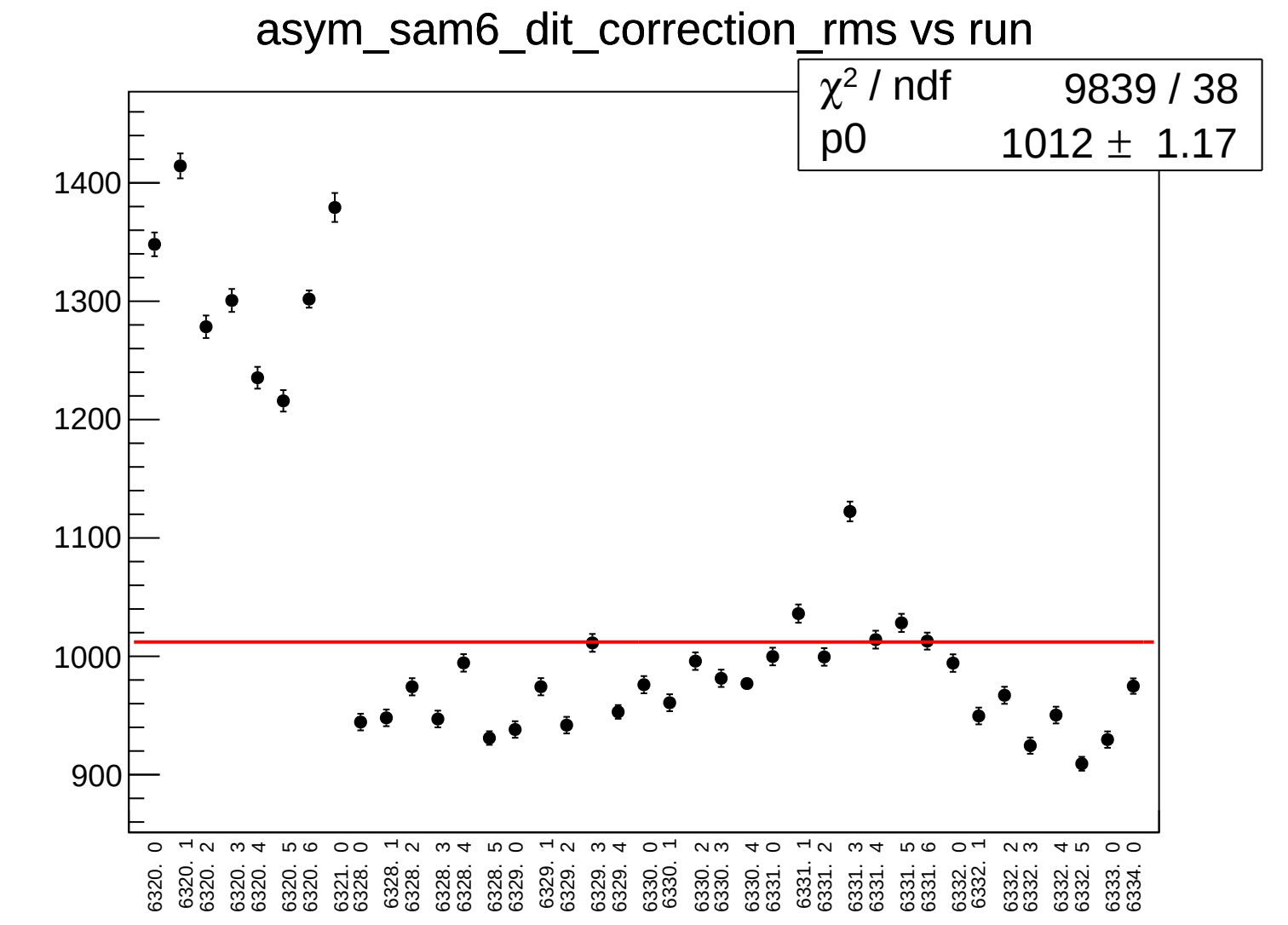

dit_asym_sam6_mean vs run
χ² / ndf 35.34 / 38
p0 243.2 ± 226.9
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −146.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 39
Mean −0.01083
Std Dev 0.9519
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 2.395e+04 / 38
p0 137.5 ± 0.1605
300
280
260
240
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam6_dit_correction_mean vs run
χ² / ndf 26.68 / 38
p0 1601 ± 1655
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.345e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 7.54e−05
Std Dev 0.827
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ² / ndf 9839 / 38
p0 1012 ± 1.17
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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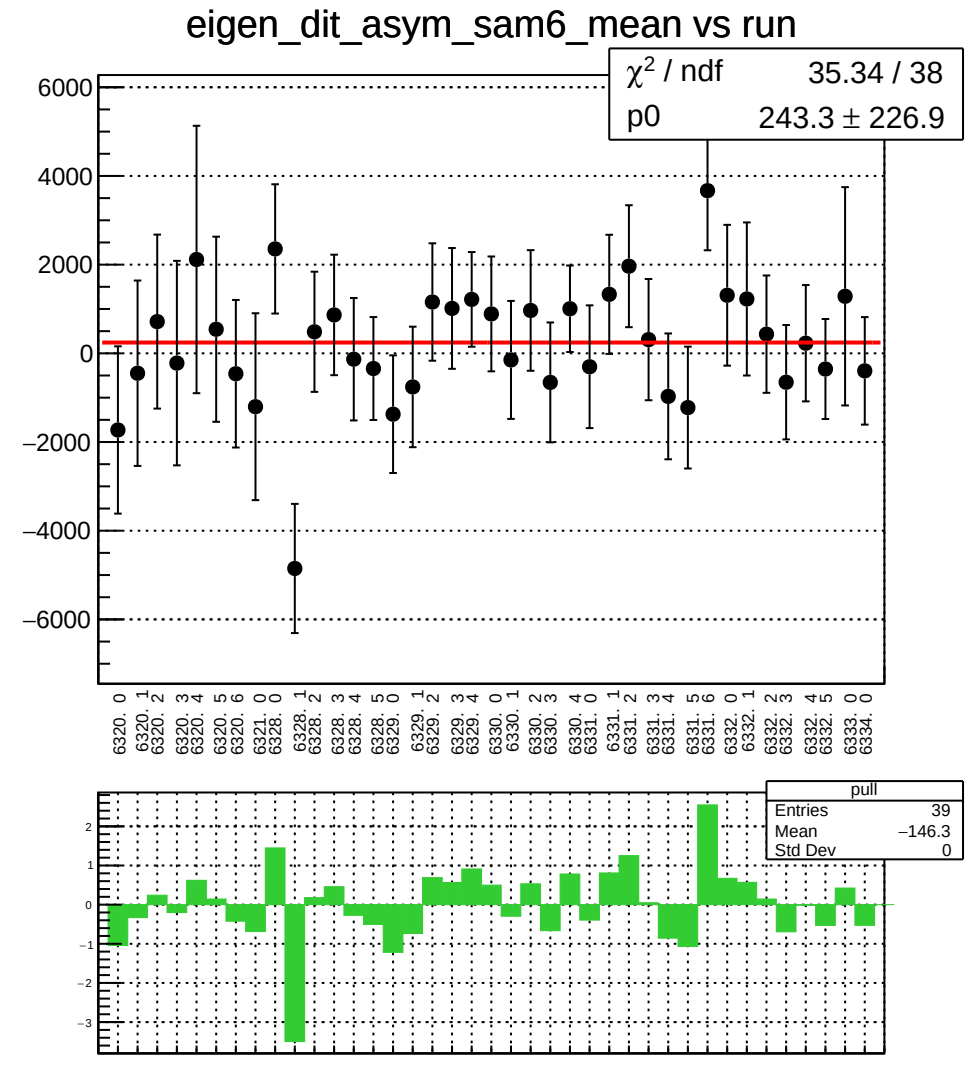
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_sam6_mean vs run
χ² / ndf 35.34 / 38
p0 243.3 ± 226.9
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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6332. 2
6332. 3
6332. 4
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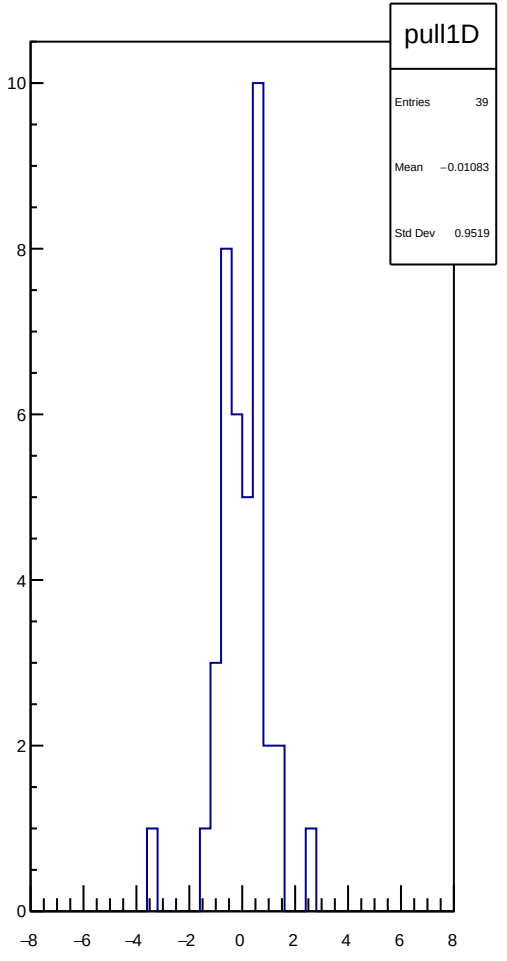
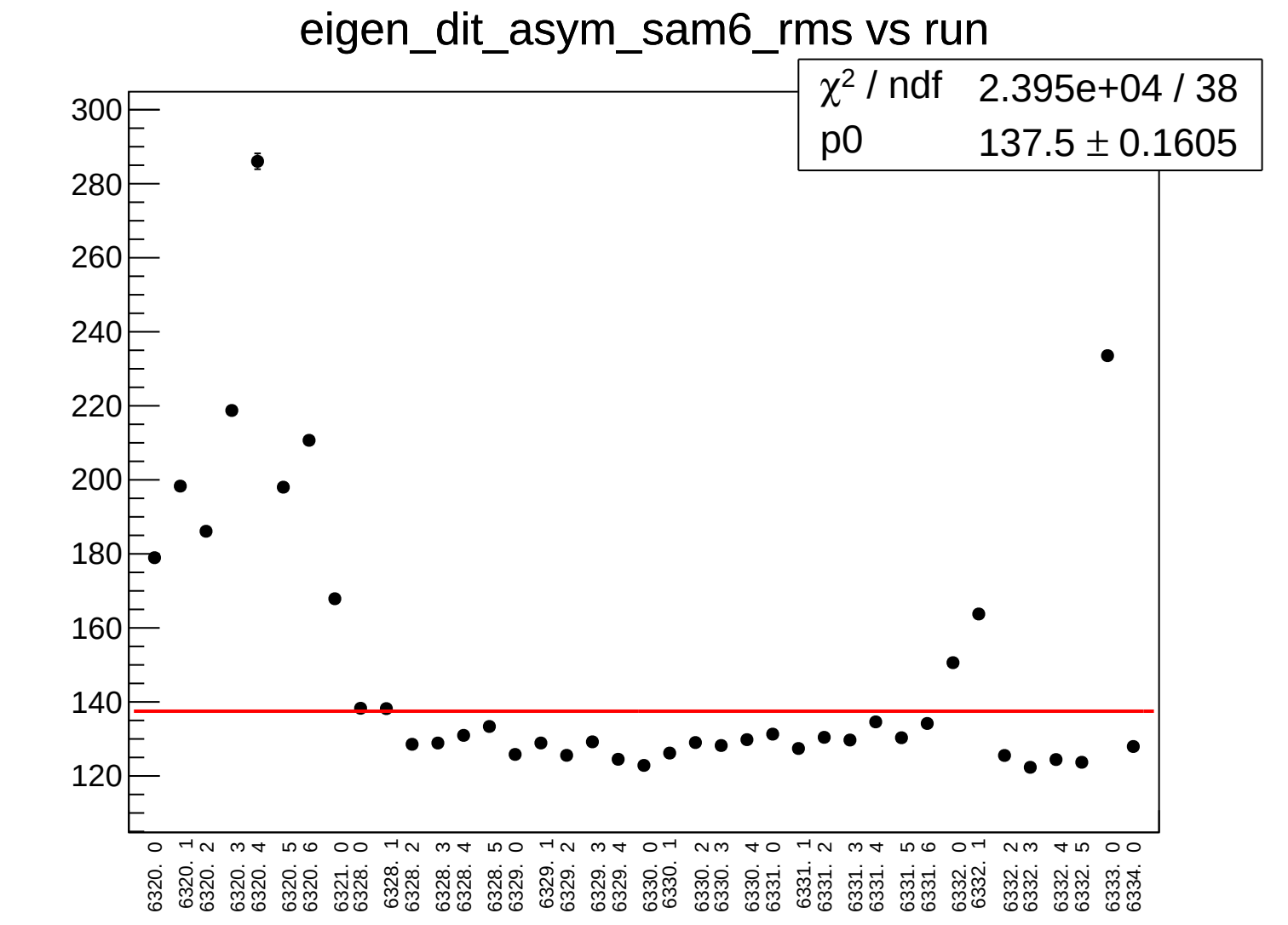
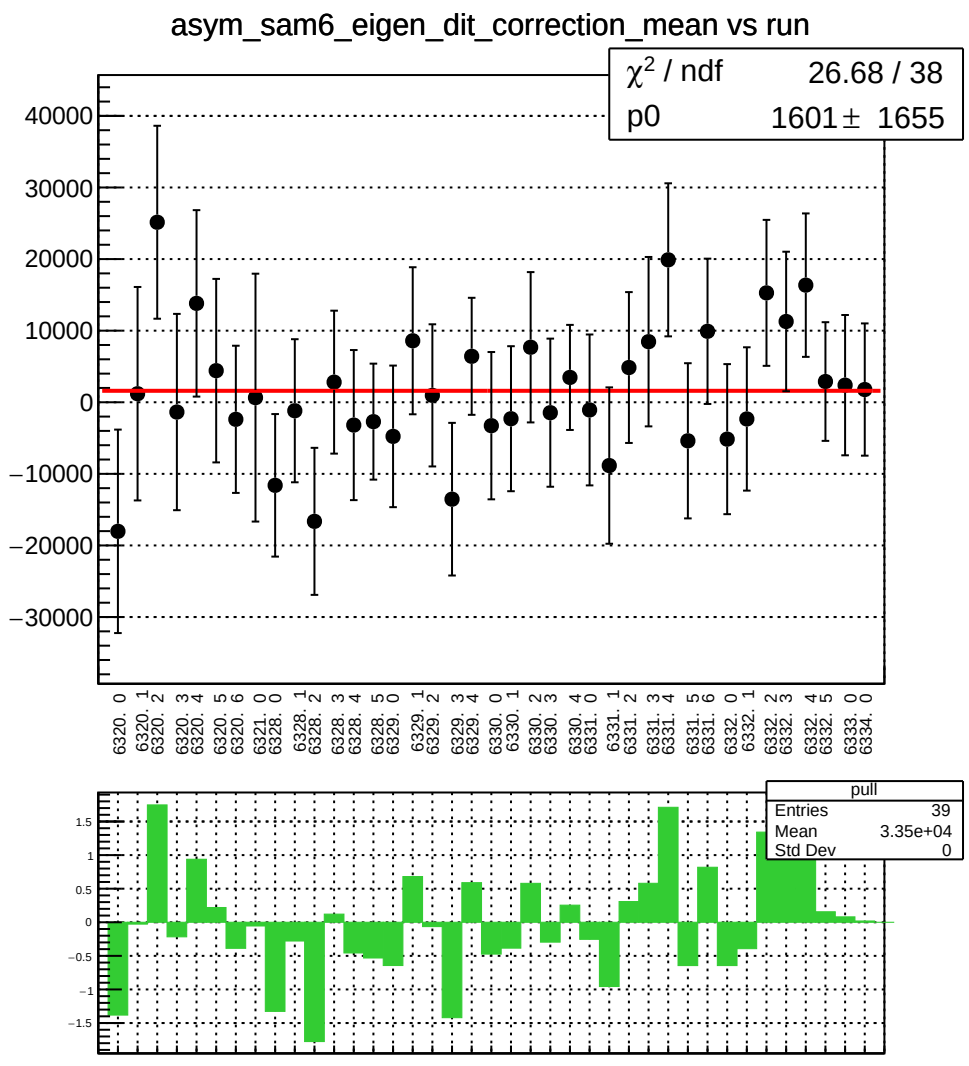
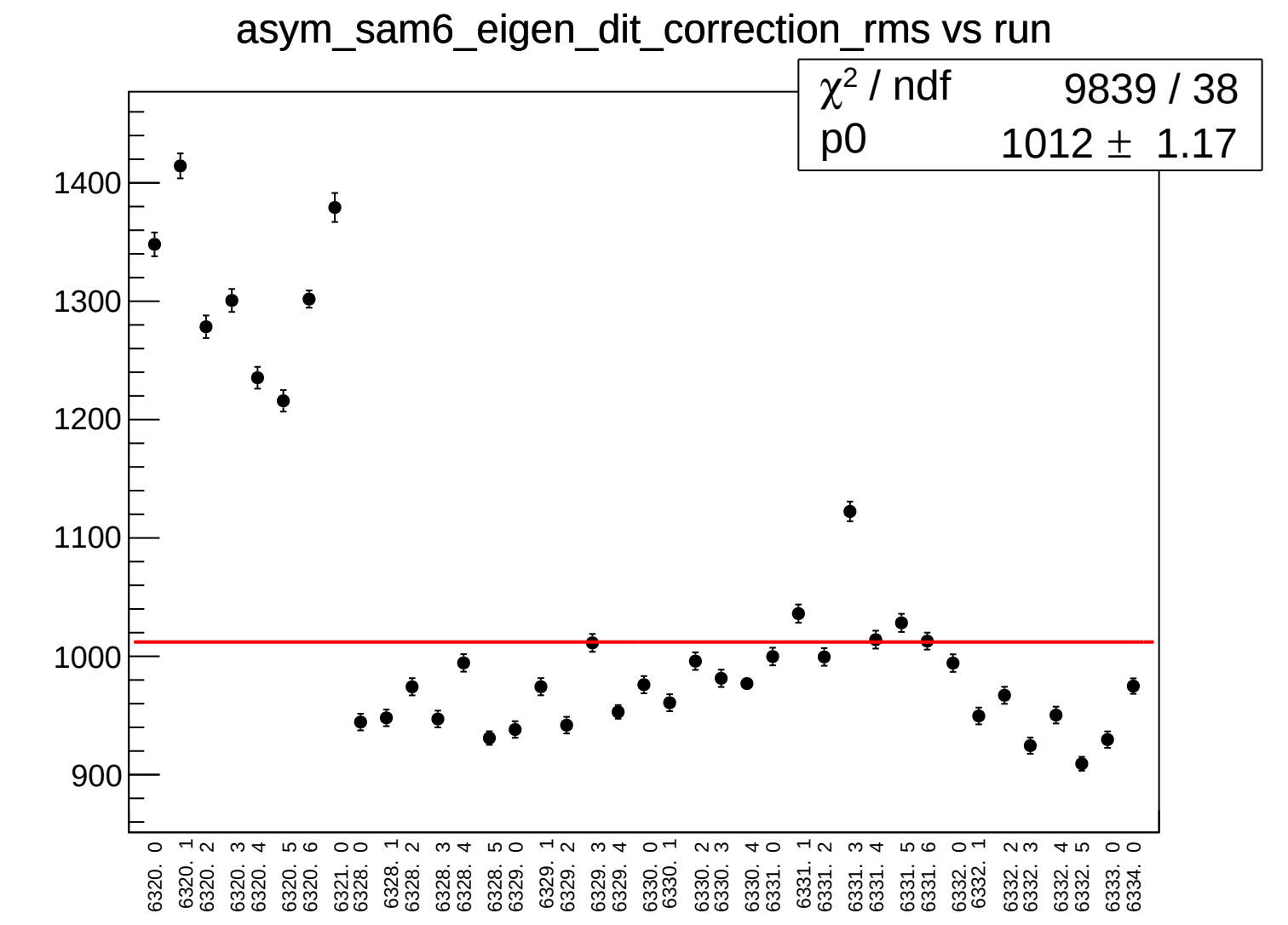
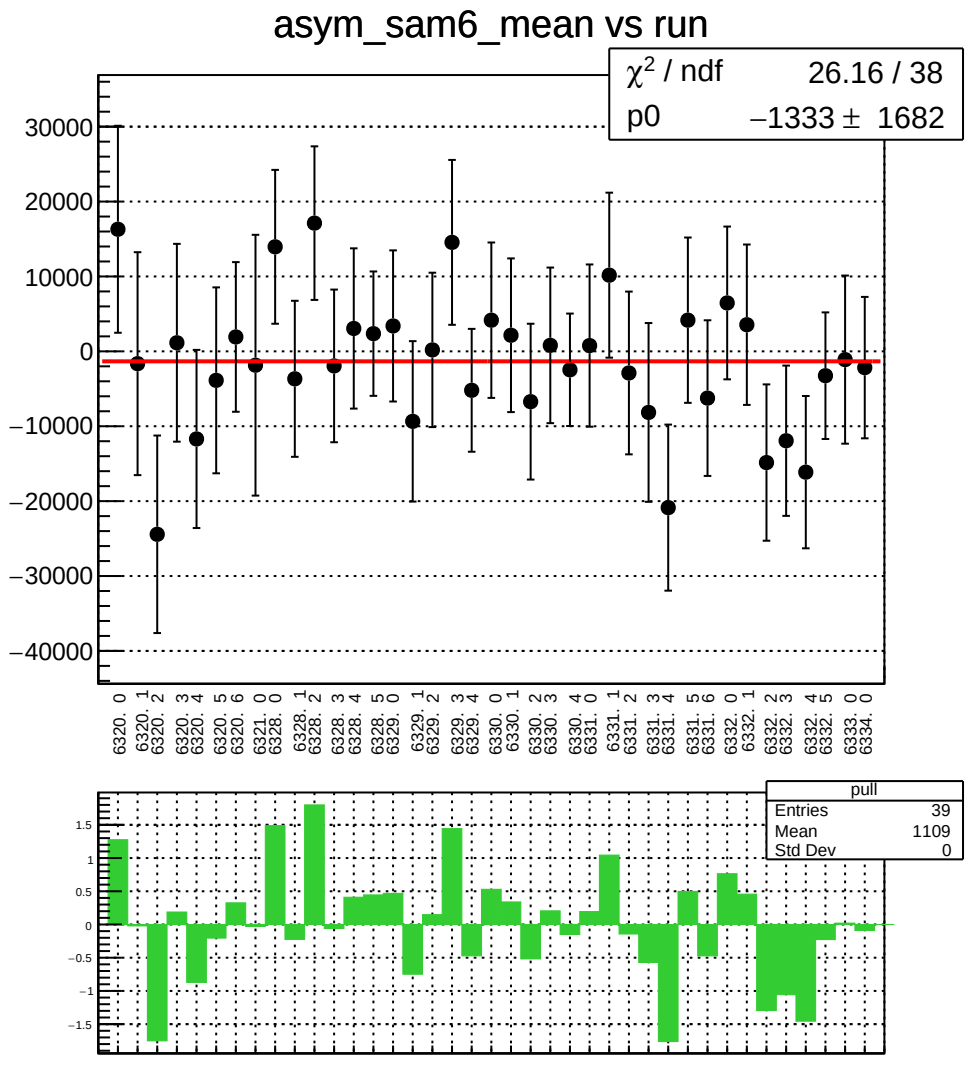
6334. 0
pull
Entries 39
Mean −146.3
Std Dev 0
2
1
0
−1
−2
−3

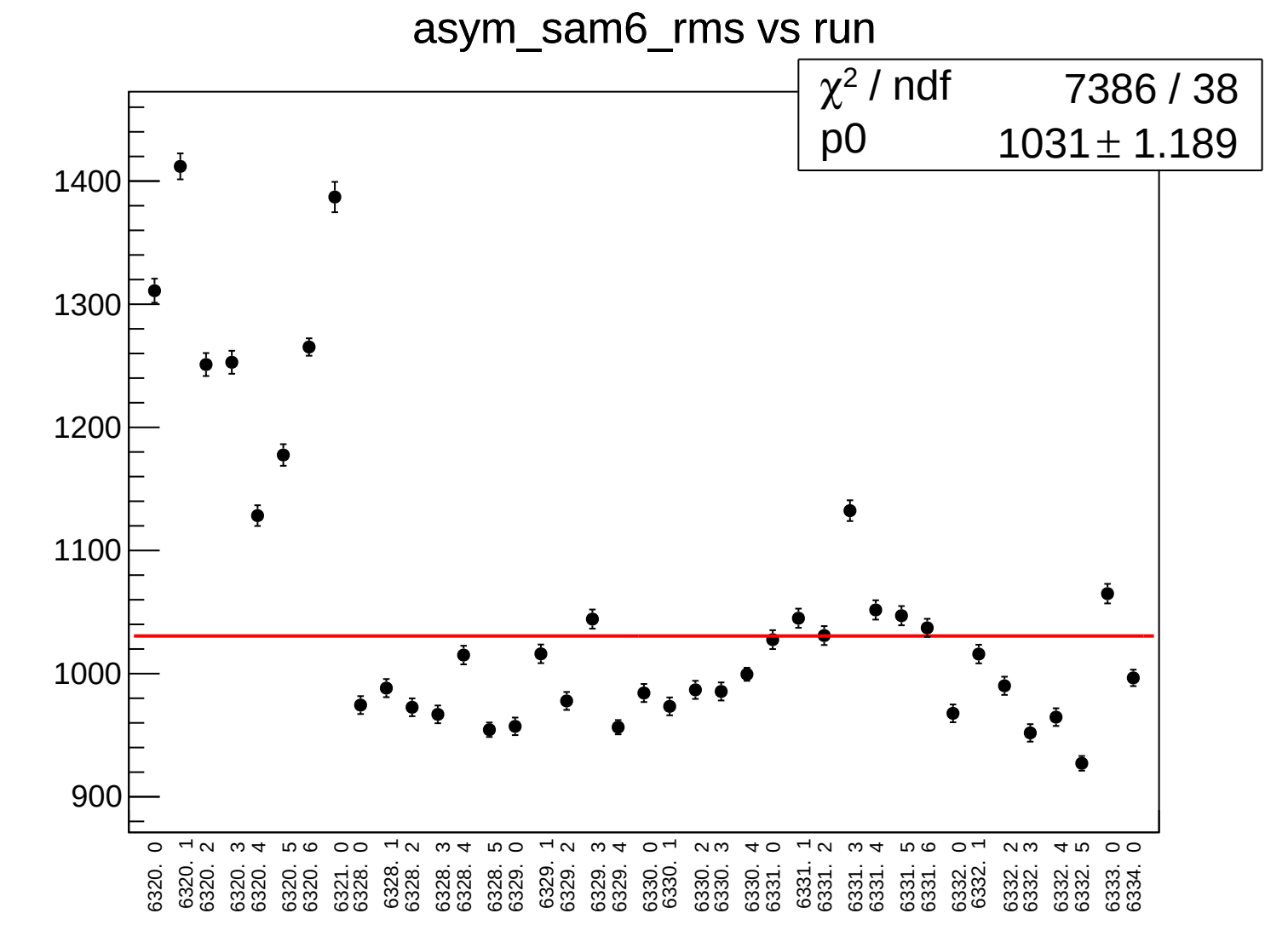

pull1D
Entries 39
Mean −0.01083
Std Dev 0.9519
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

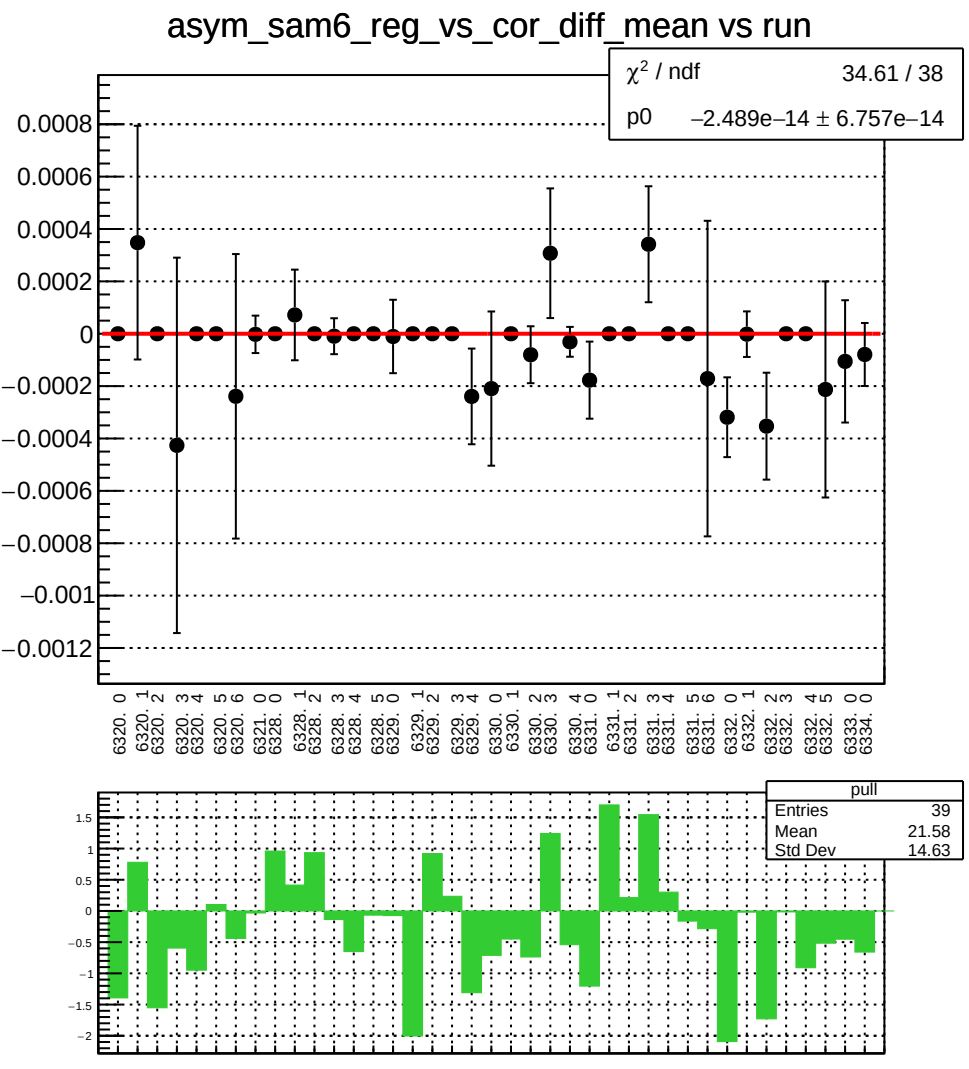

eigen_dit_asym_sam6_rms vs run
χ² / ndf 2.395e+04 / 38
p0 137.5 ± 0.1605
300
280
260
240
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

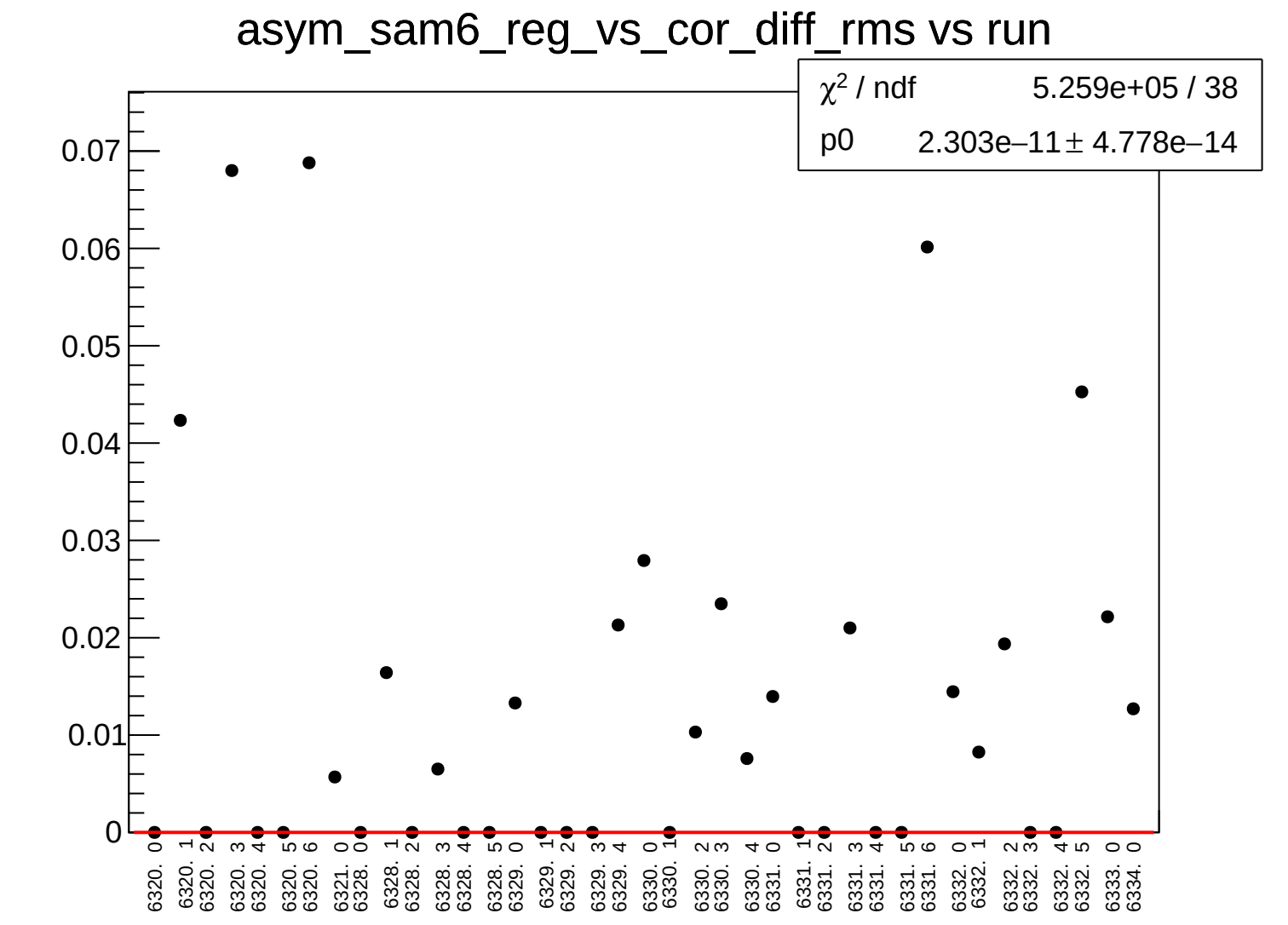

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 26.68 / 38
p0 1601 ± 1655
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.35e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 7.531e−05
Std Dev 0.827
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

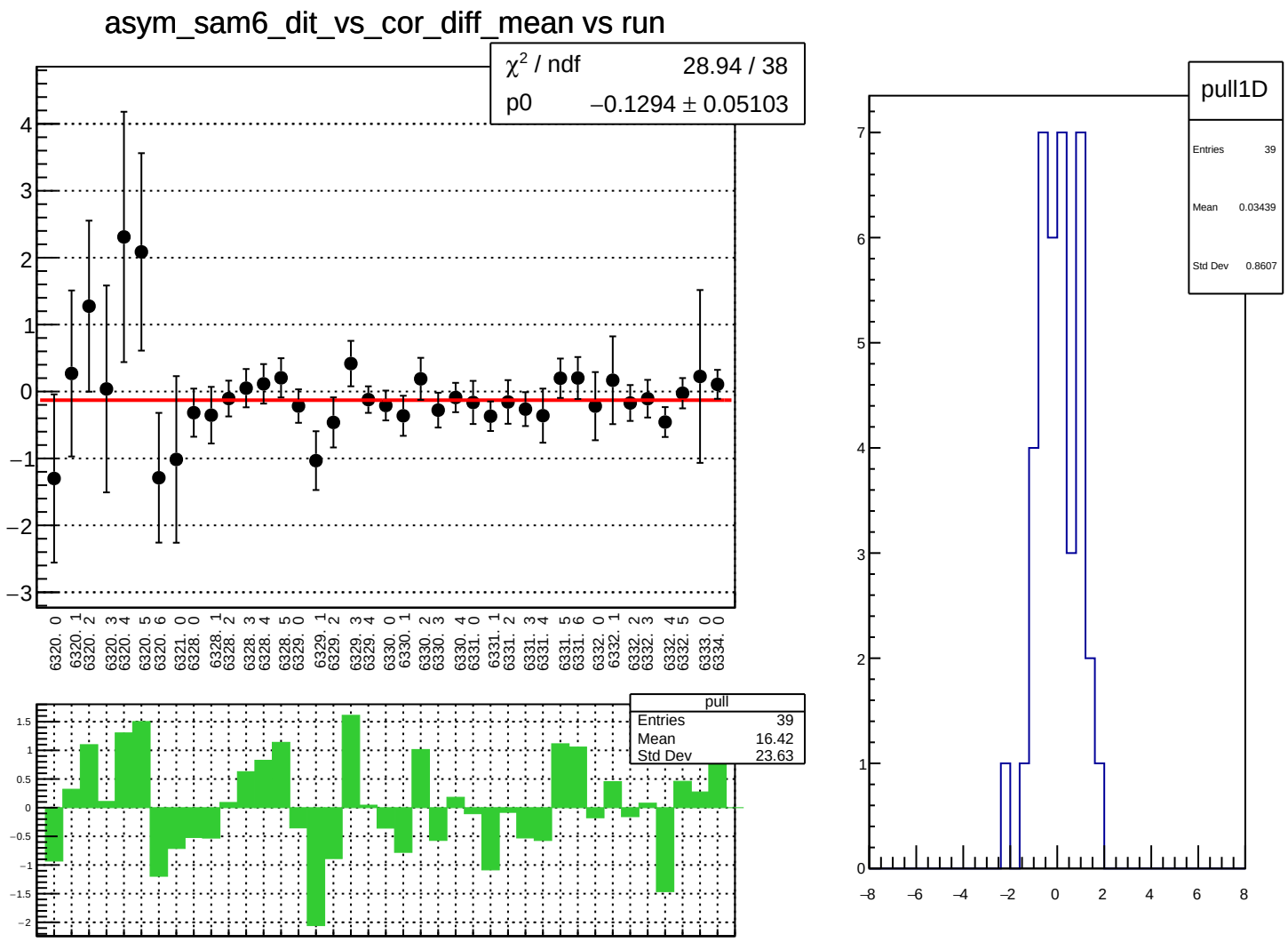

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 9839 / 38
p0 1012 ± 1.17
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

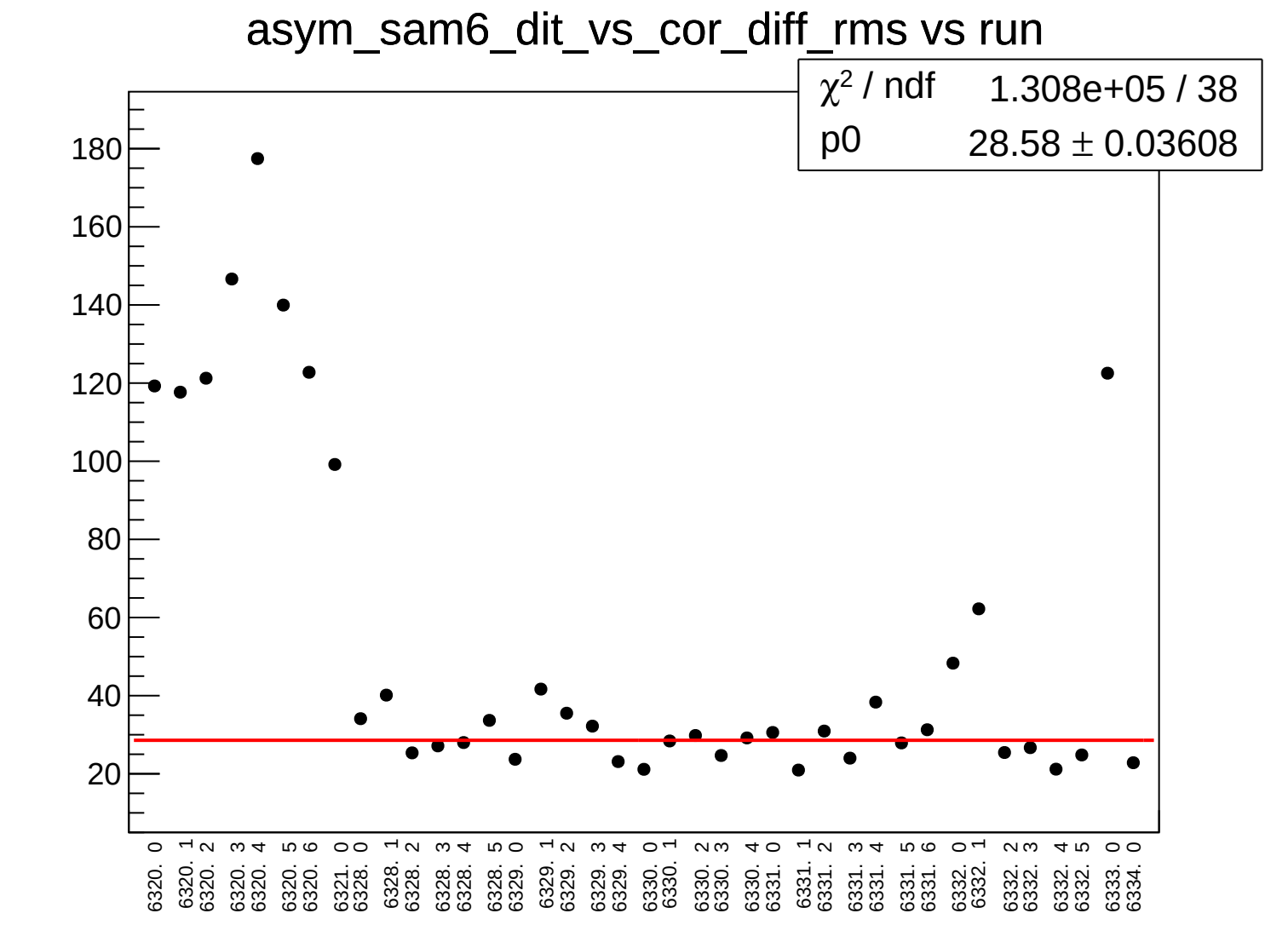

asym_sam6_mean vs run
χ² / ndf 26.16 / 38
p0 −1333 ± 1682
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1109
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.002002
Std Dev 0.8191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

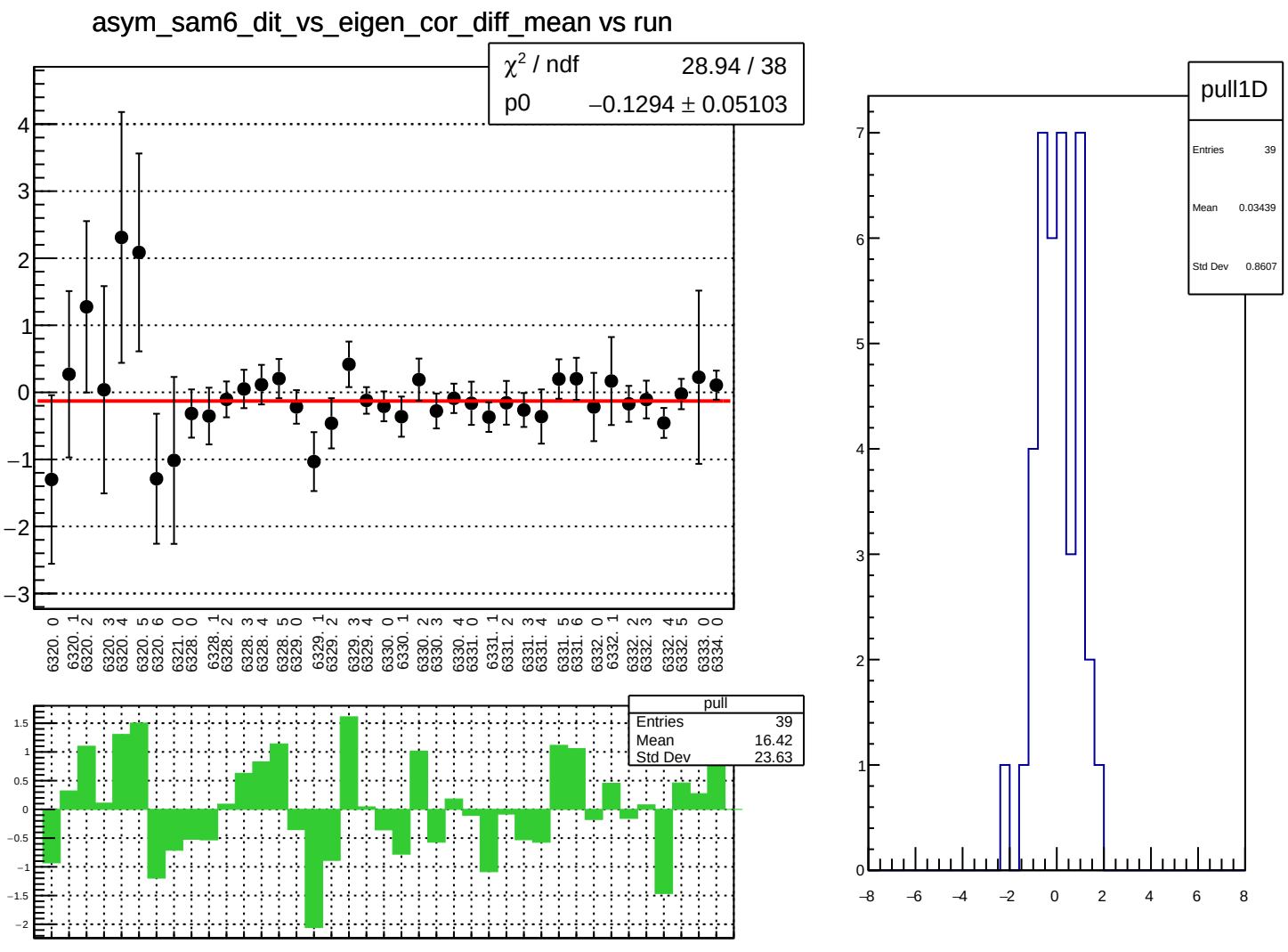

asym_sam6_rms vs run
χ² / ndf 7386 / 38
p0 1031 ± 1.189
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

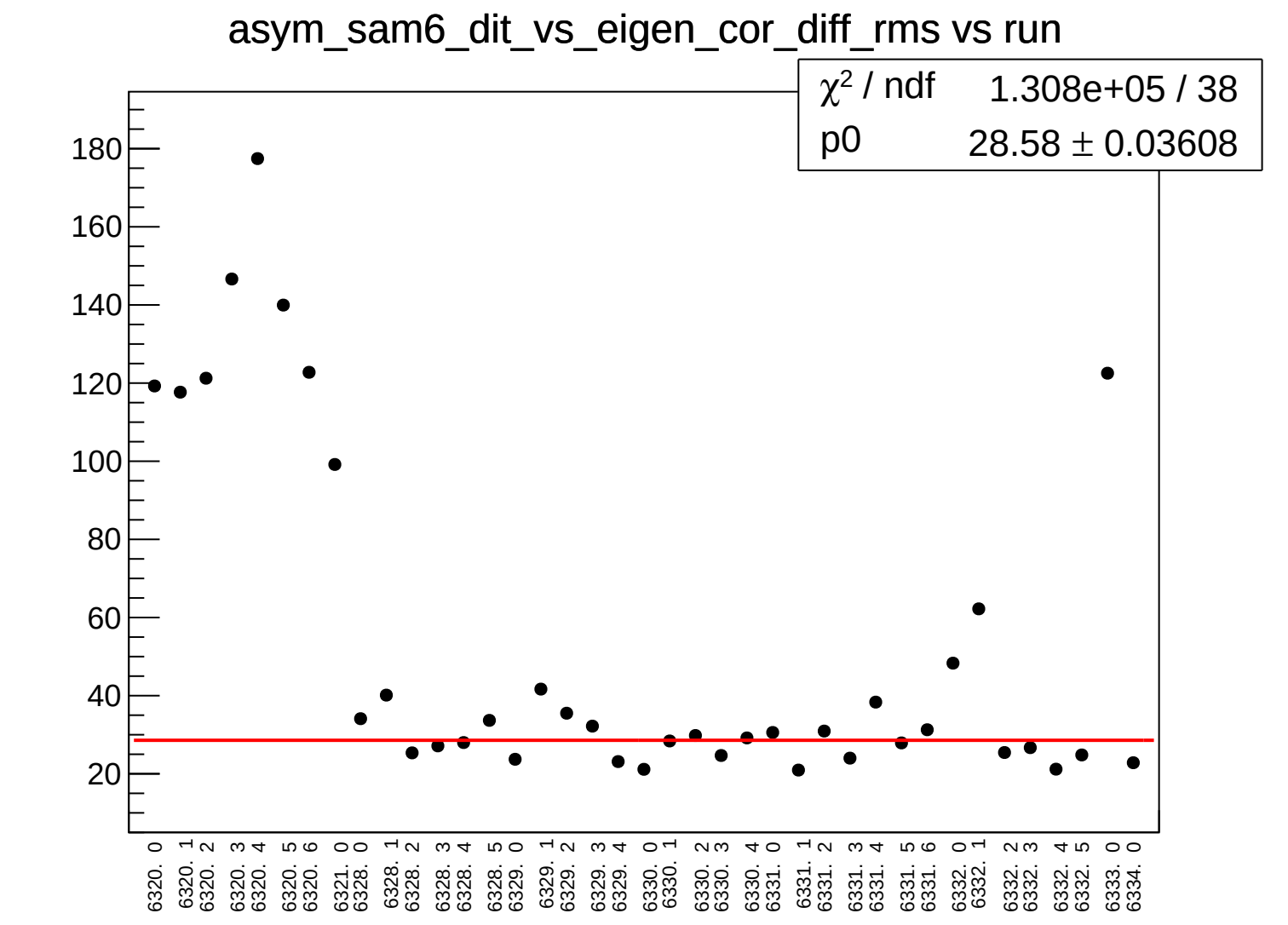

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 34.61 / 38
p0 −2.489e−14 ± 6.757e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.58
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.2651
Std Dev 0.904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

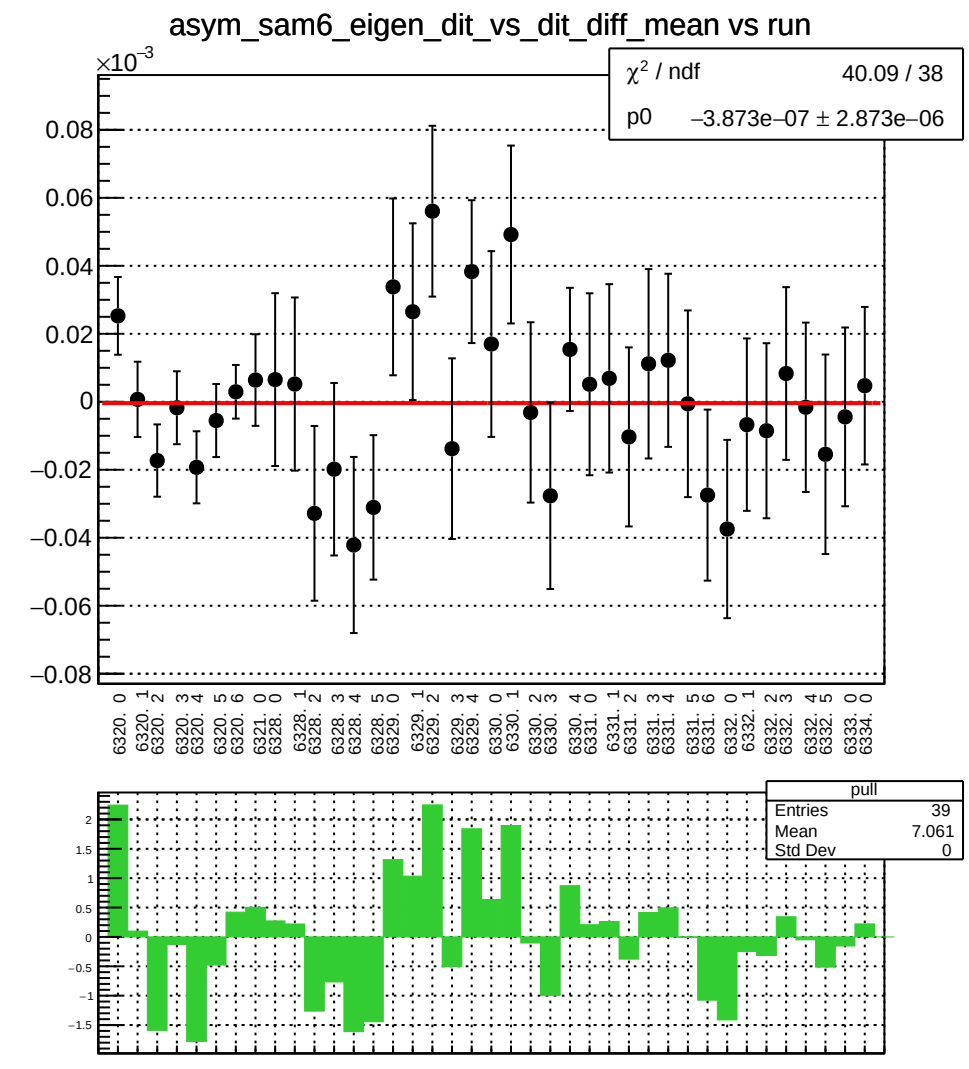

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 5.259e+05 / 38
p0 2.303e−11 ± 4.778e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

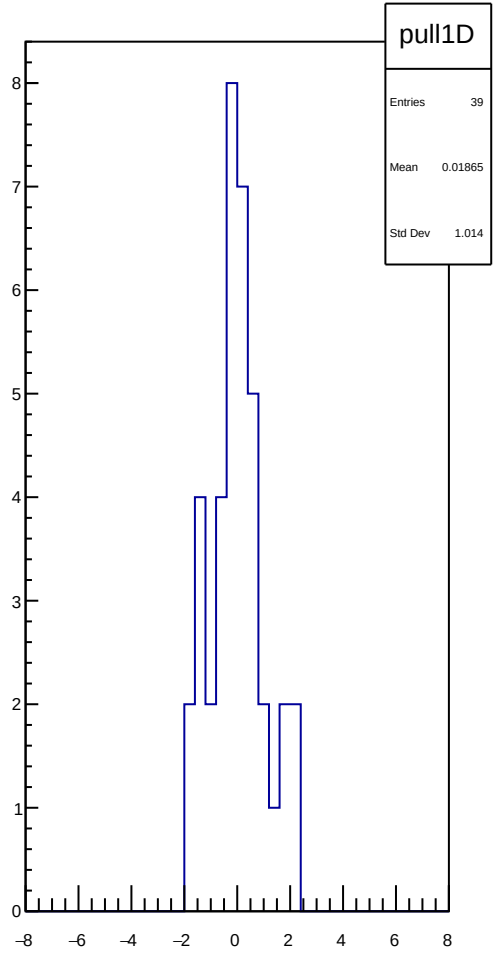

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 28.94 / 38
p0 −0.1294 ± 0.05103
pull
Entries 39
Mean 16.42
Std Dev 23.63
pull1D
Entries 39
Mean 0.03439
Std Dev 0.8607

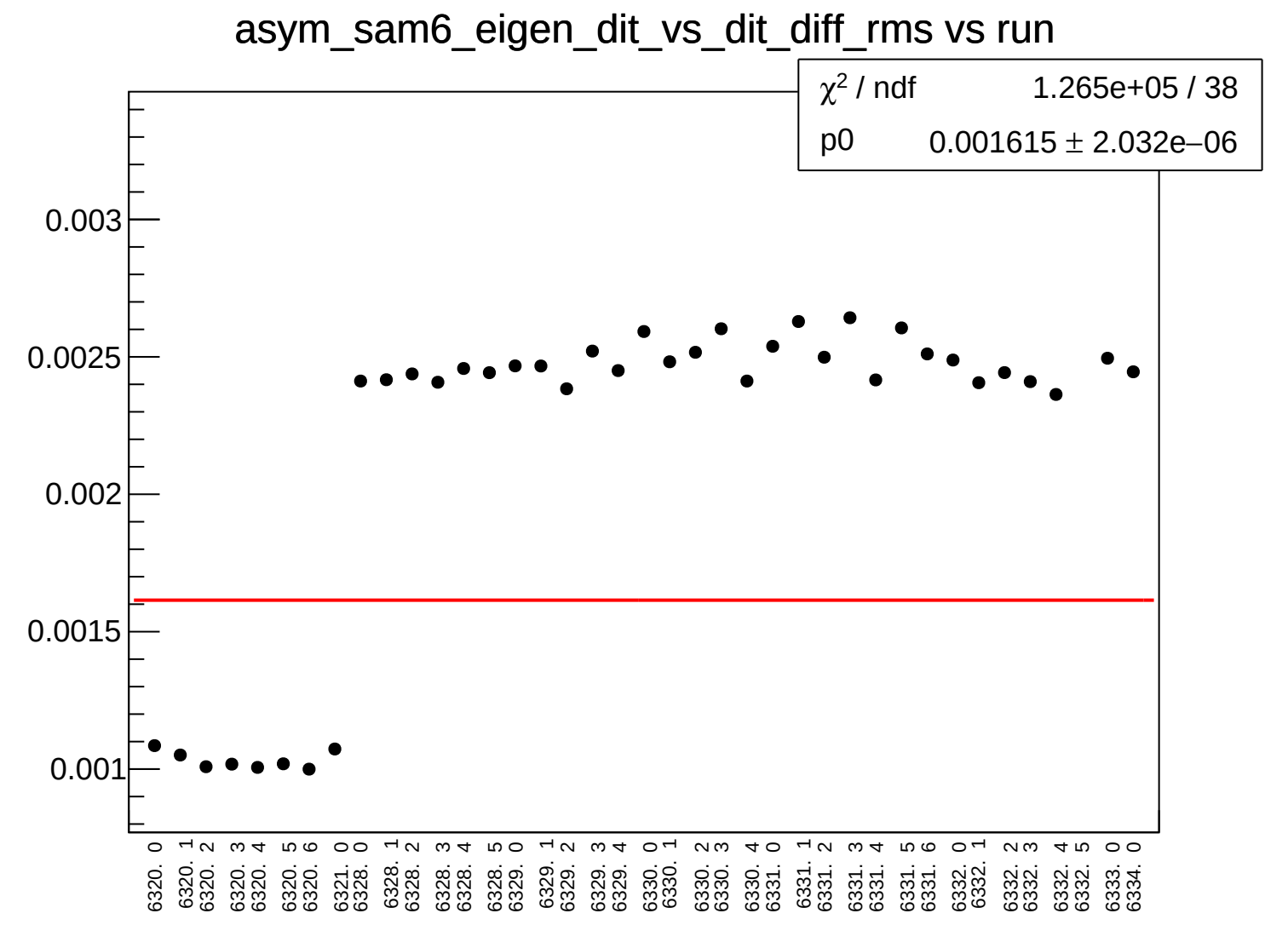

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 38
p0 28.58 ± 0.03608
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

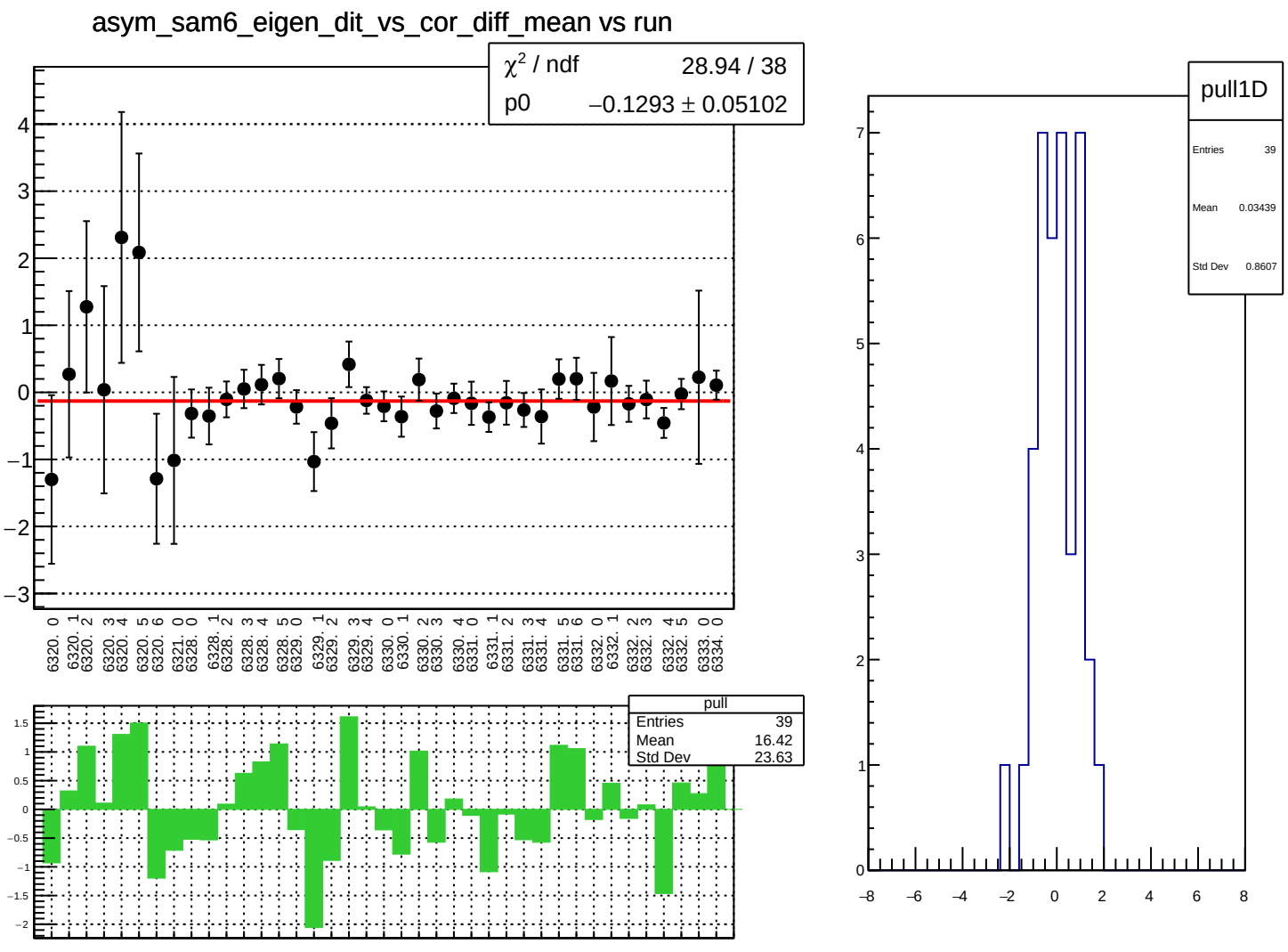

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.94 / 38
p0 −0.1294 ± 0.05103
pull
Entries 39
Mean 16.42
Std Dev 23.63
pull1D
Entries 39
Mean 0.03439
Std Dev 0.8607

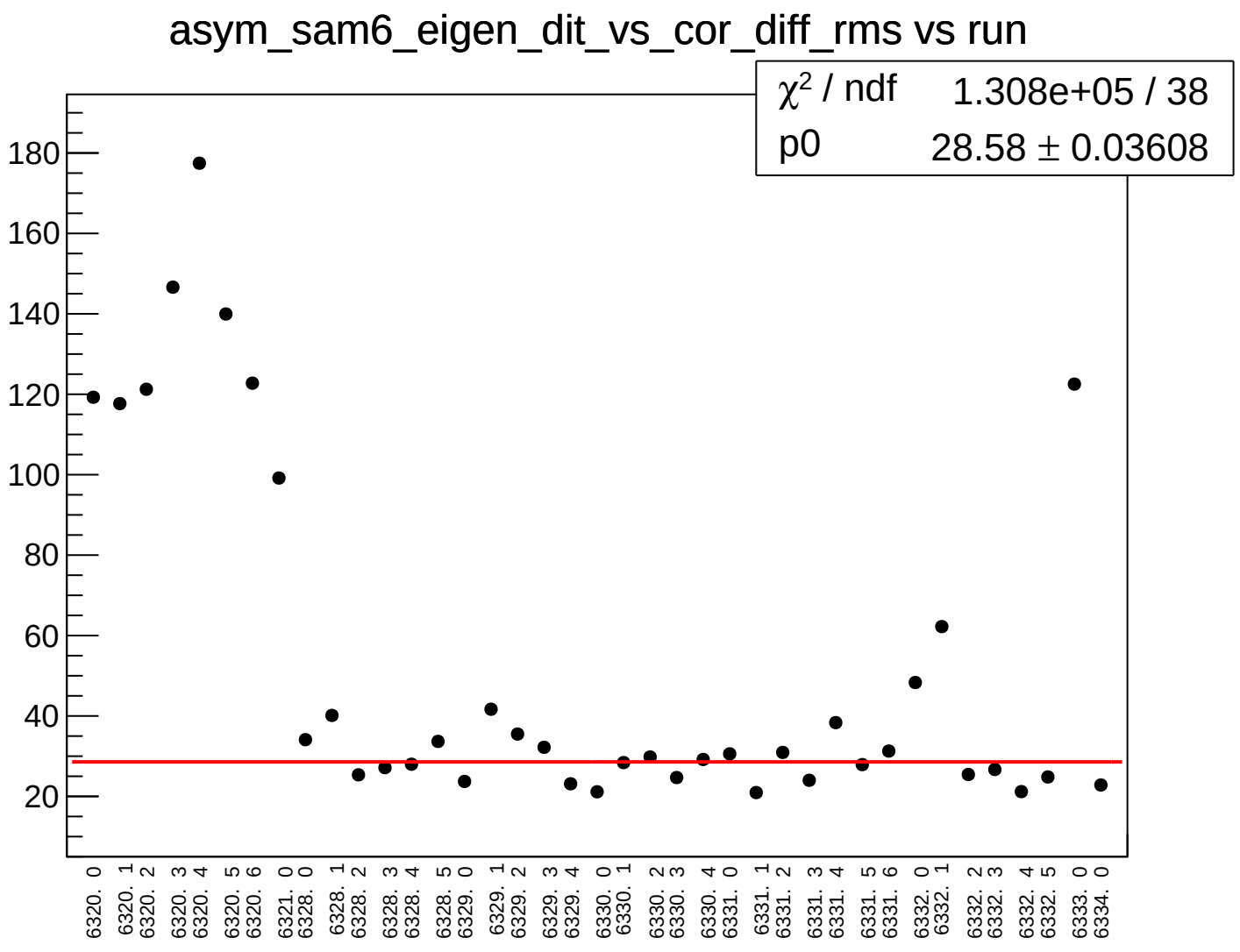

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 38
p0 28.58 ± 0.03608
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

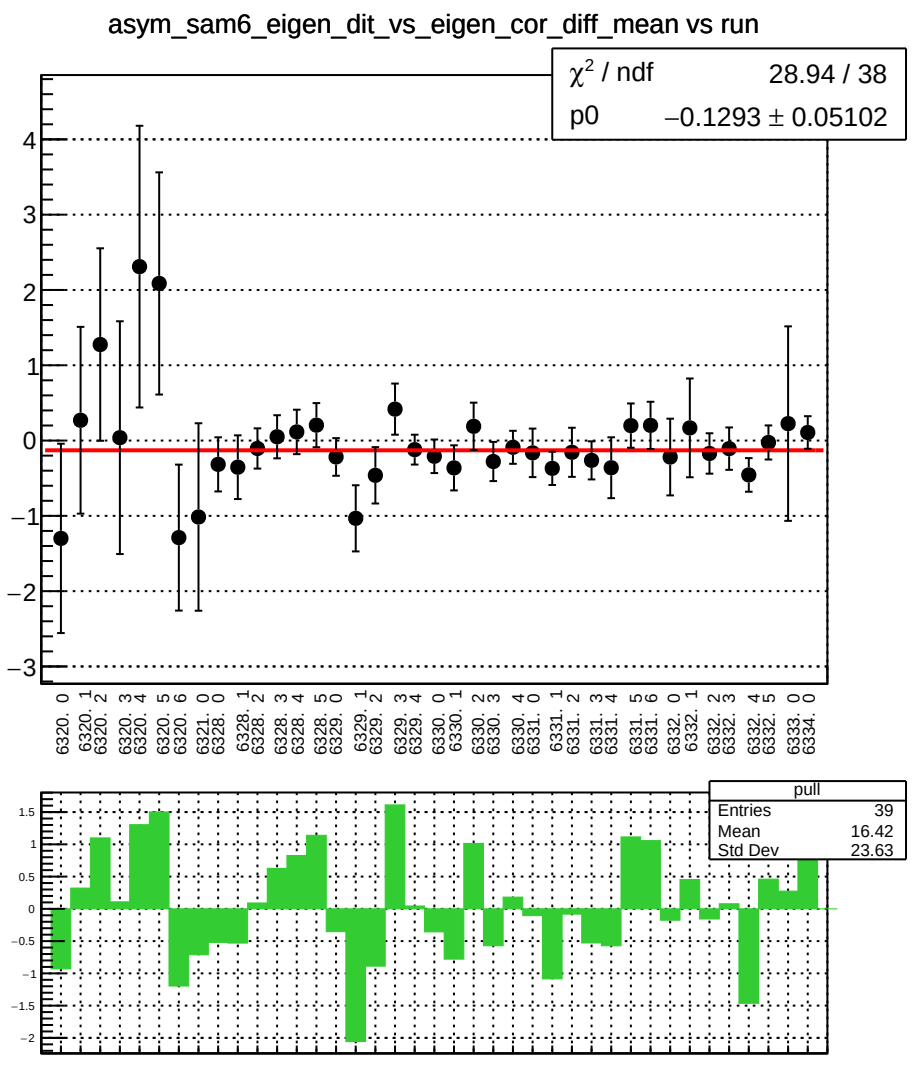

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.09 / 38
p0 −3.873e−07 ± 2.873e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 7.061
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

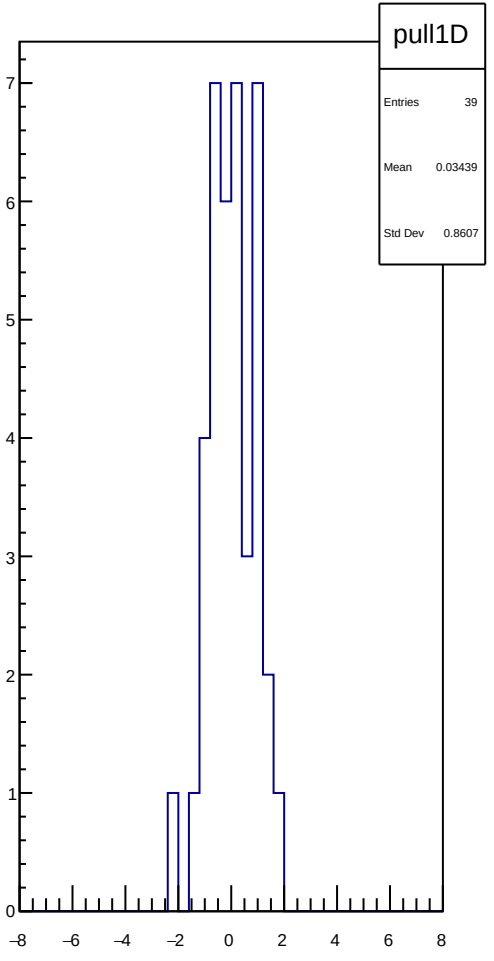

pull1D
Entries 39
Mean 0.01865
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

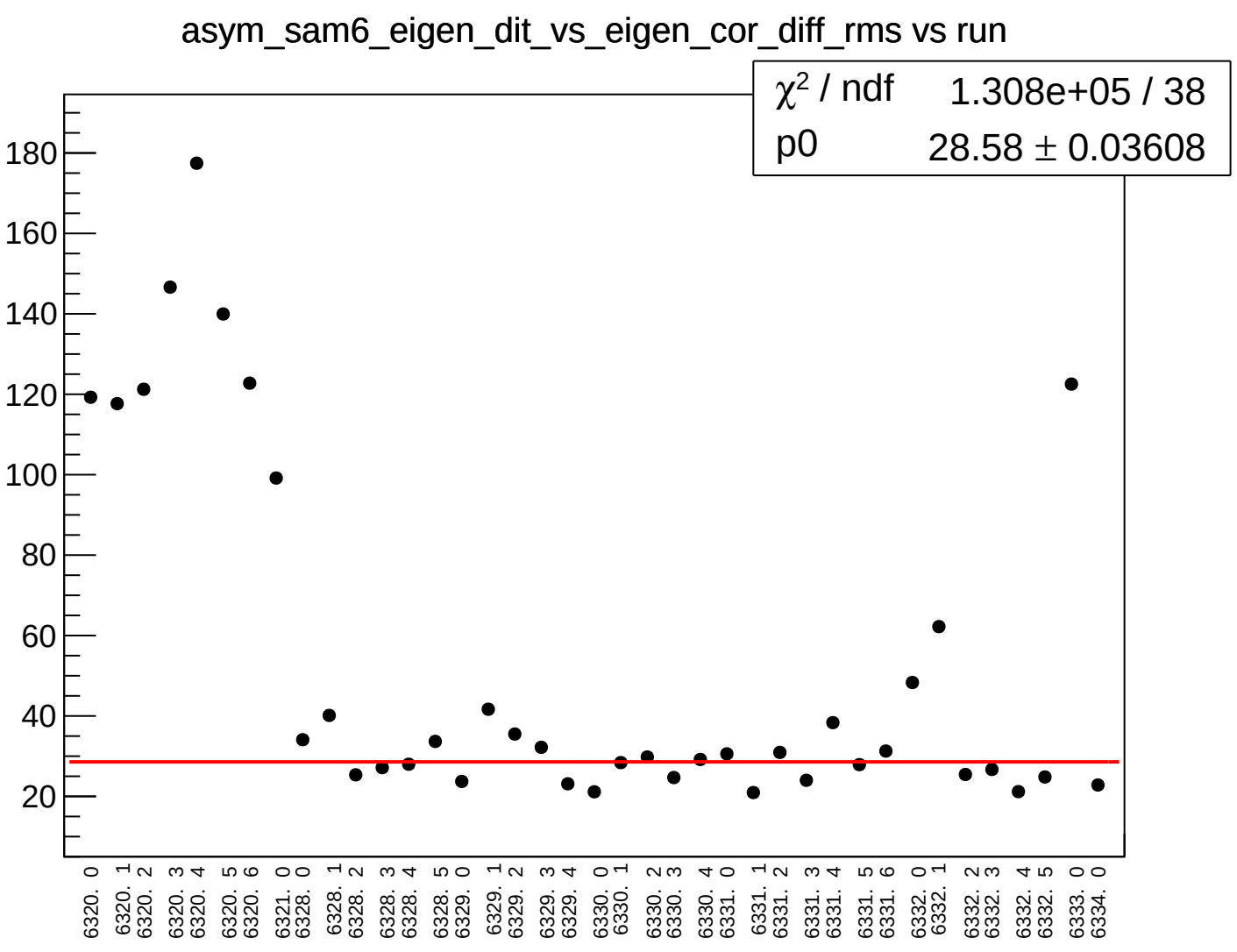

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.265e+05 / 38
p0 0.001615 ± 2.032e−06
0.003
0.0025
0.002
0.0015
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

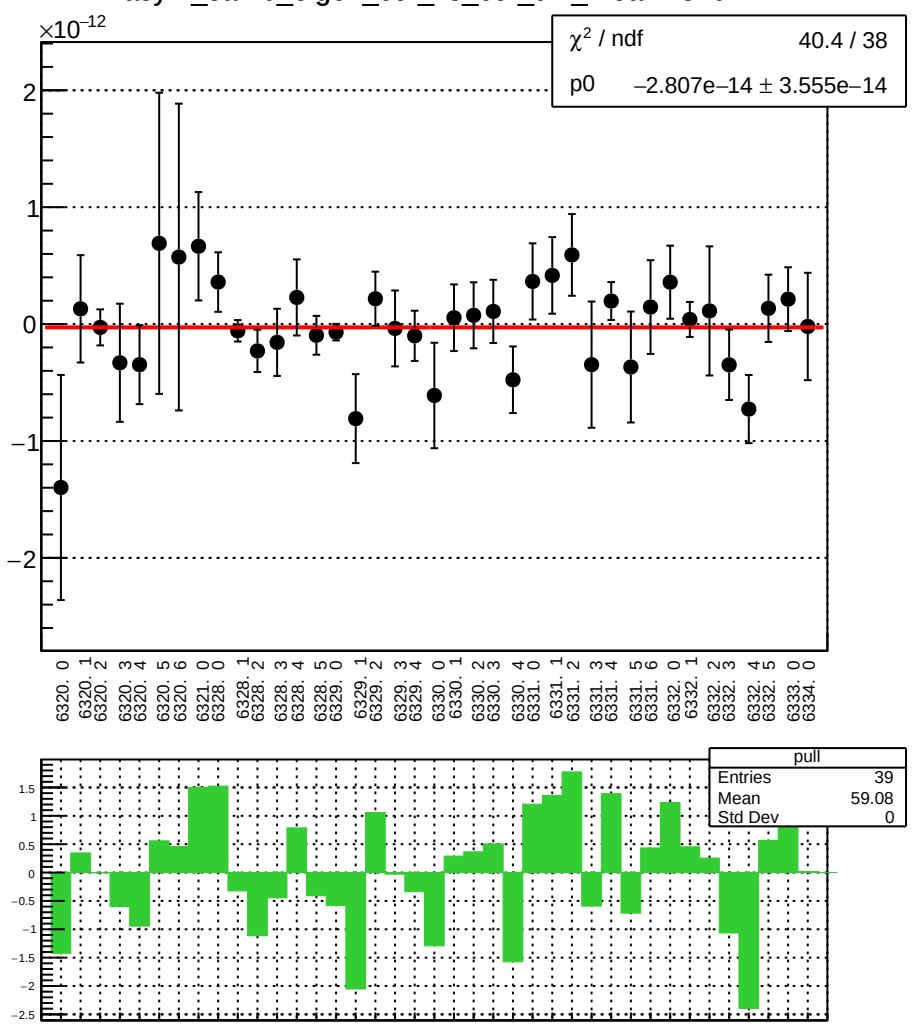

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.94 / 38
p0 −0.1293 ± 0.05102
pull
Entries 39
Mean 16.42
Std Dev 23.63
pull1D
Entries 39
Mean 0.03439
Std Dev 0.8607

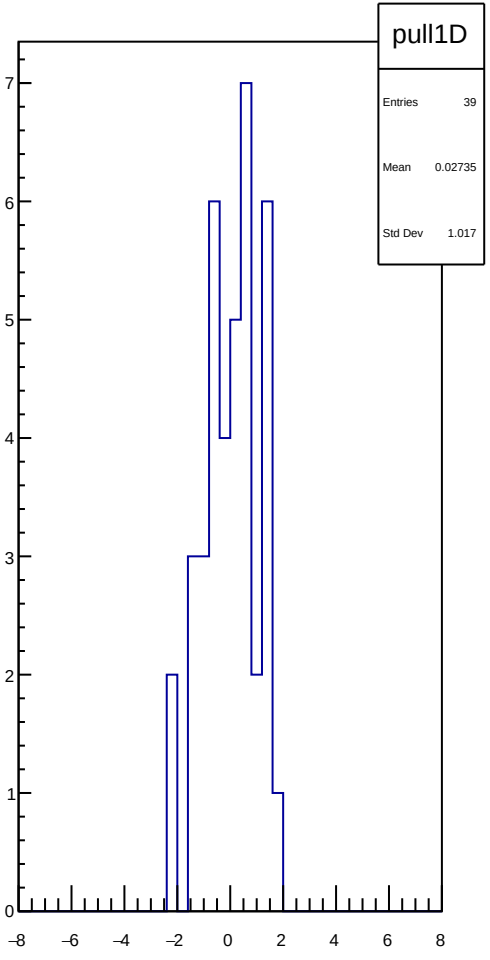

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 38
p0 28.58 ± 0.03608
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

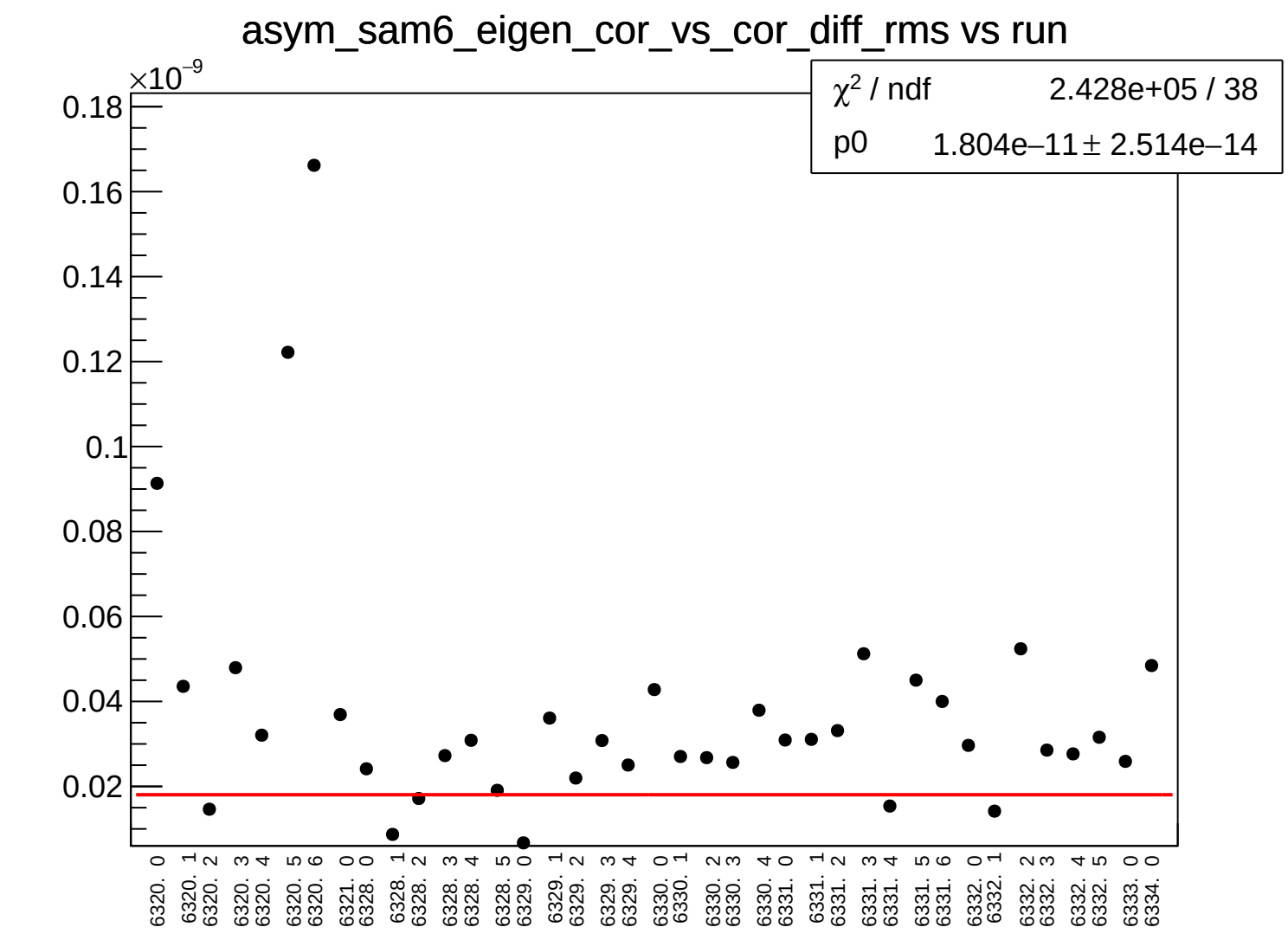

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.94 / 38
p0 −0.1293 ± 0.05102
pull
Entries 39
Mean 16.42
Std Dev 23.63

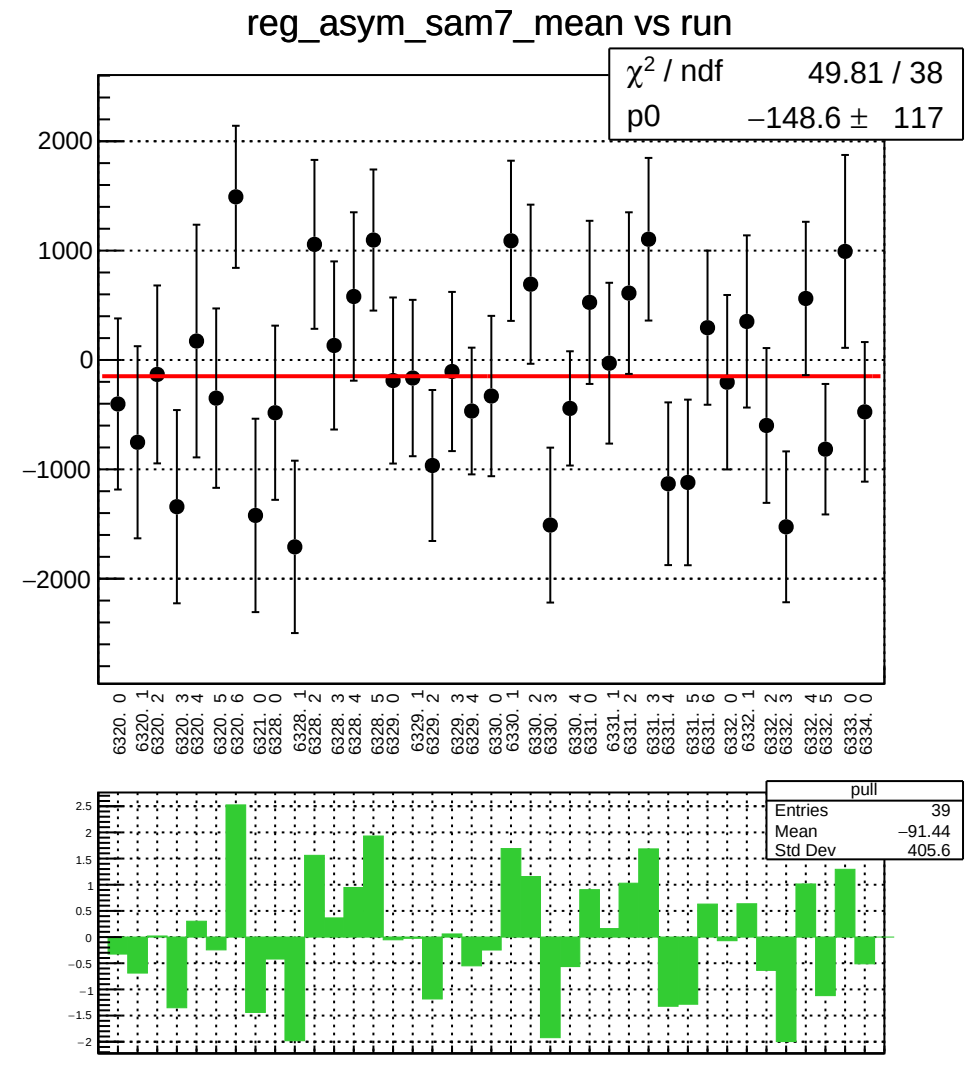

pull1D
Entries 39
Mean 0.03439
Std Dev 0.8607

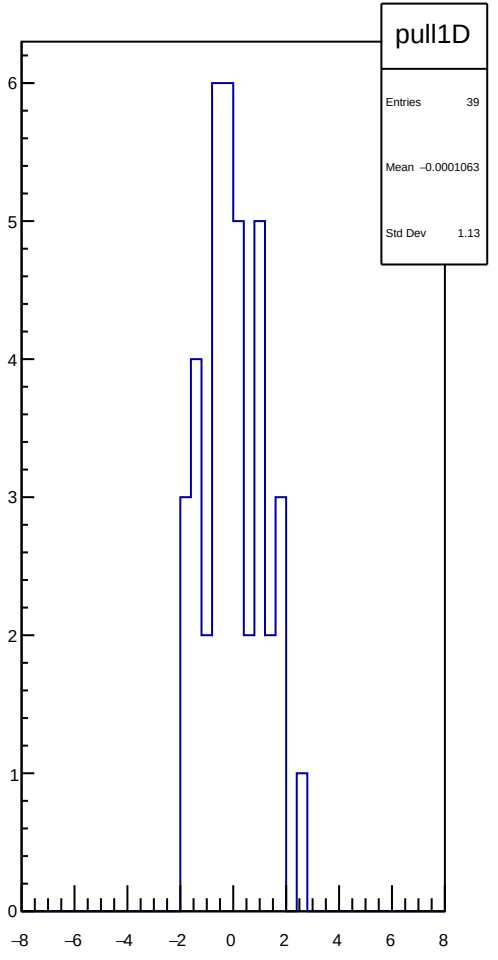

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 38
p0 28.58 ± 0.03608
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

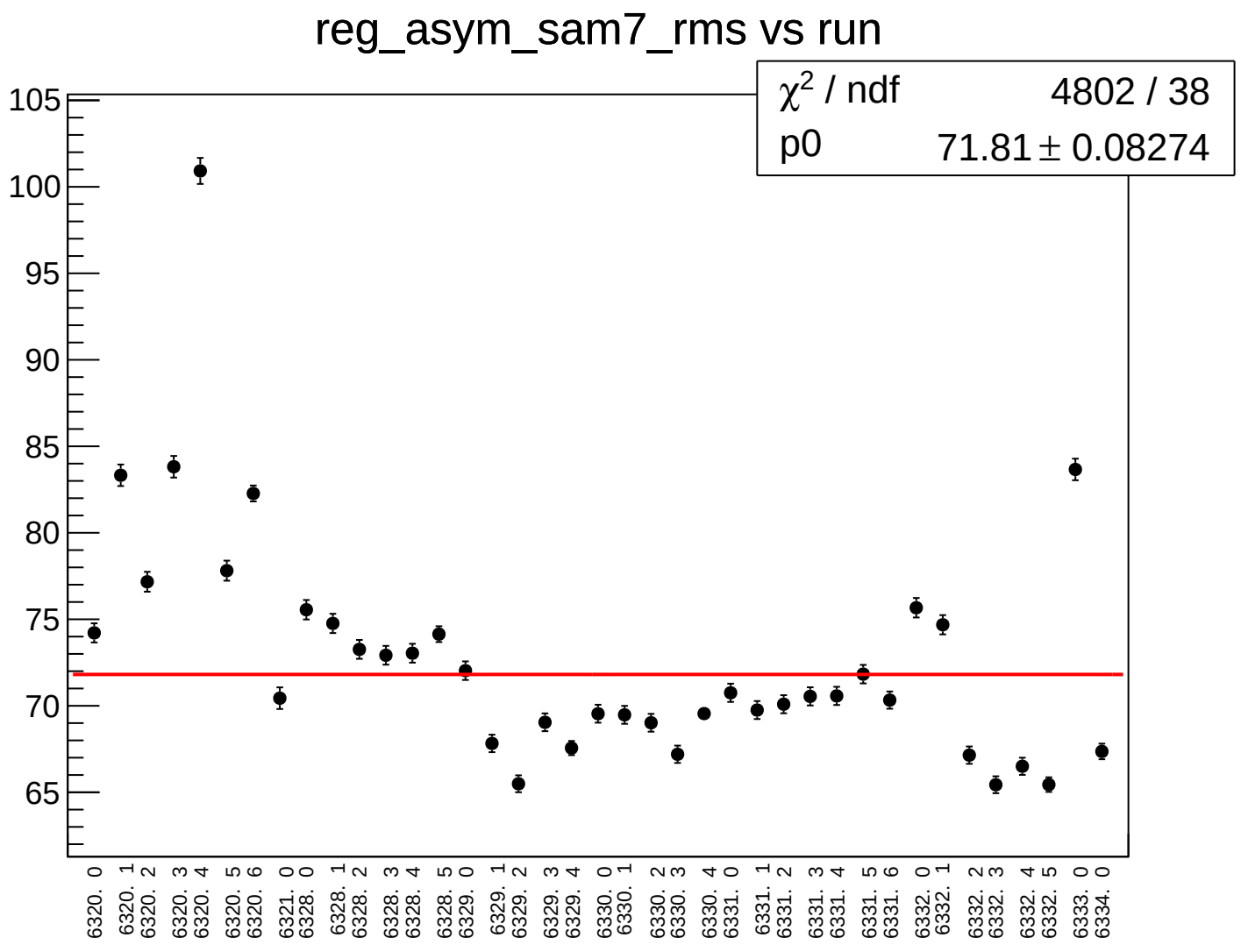

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.4 / 38
p0 −2.807e−14 ± 3.555e−14
pull
Entries 39
Mean 59.08
Std Dev 0

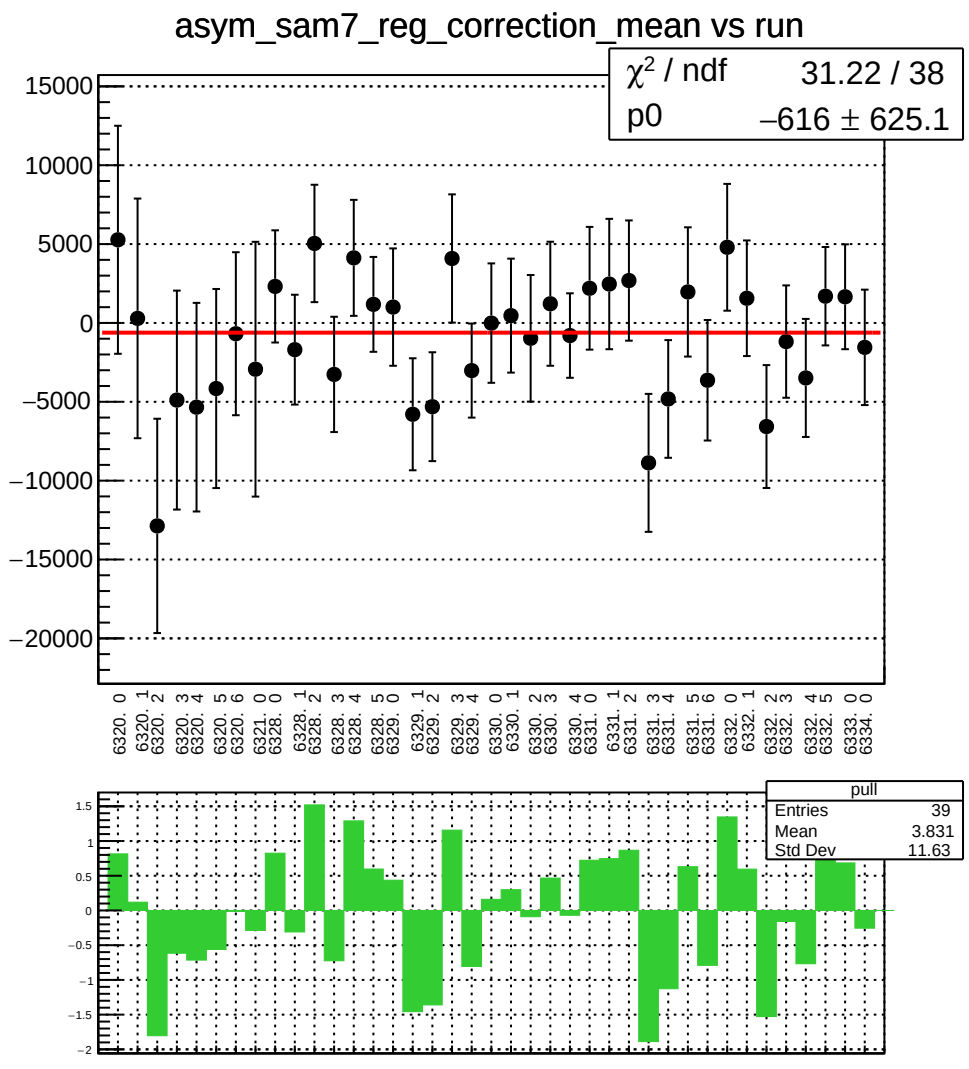

pull1D
Entries 39
Mean 0.02735
Std Dev 1.017

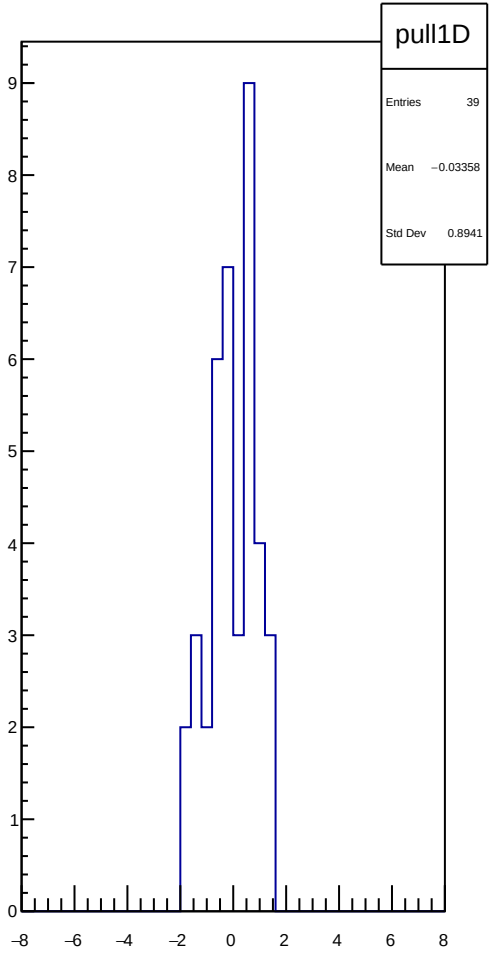

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.428e+05 / 38
p0 1.804e−11 ± 2.514e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

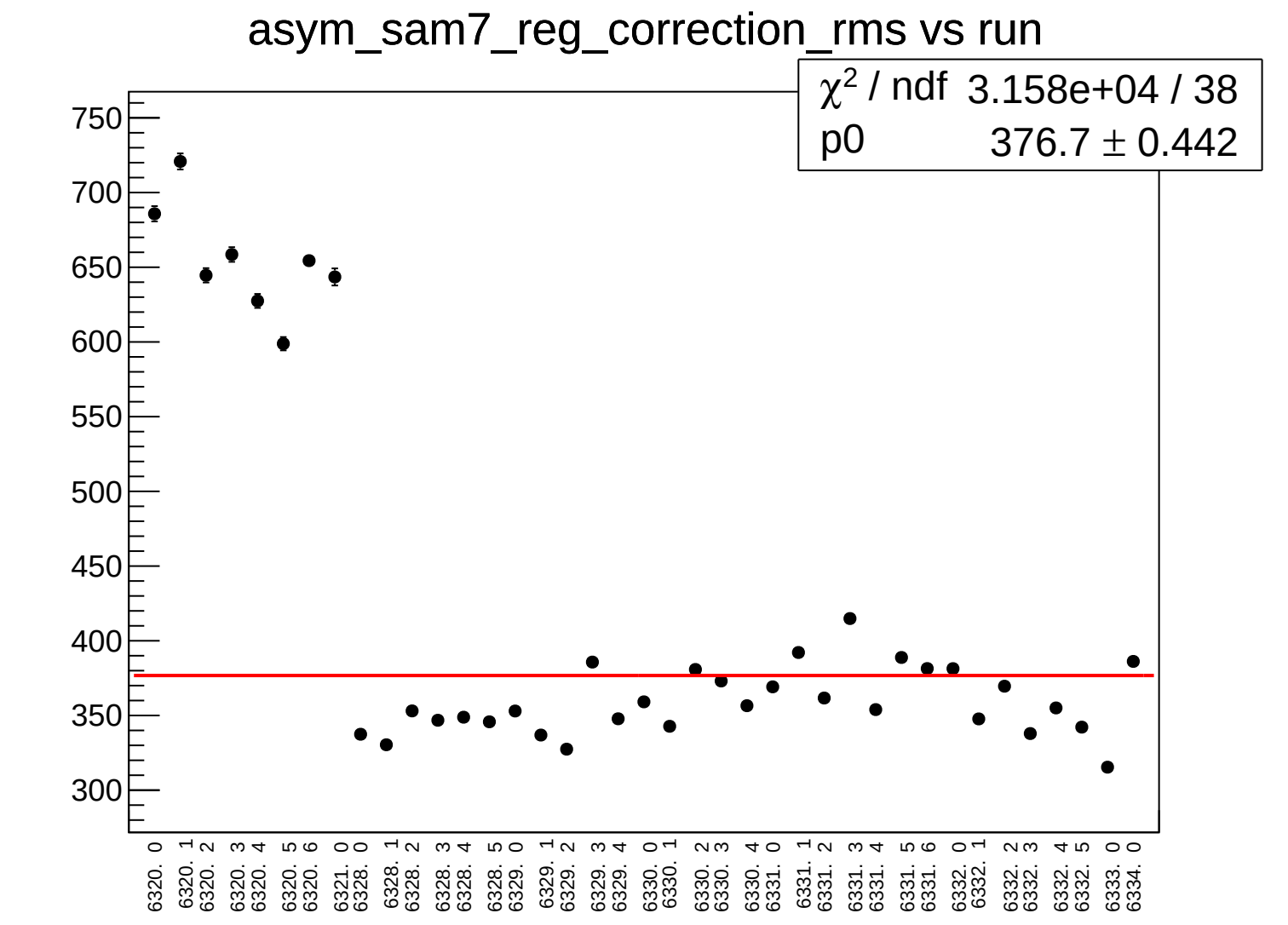

reg_asym_sam7_mean vs run
χ² / ndf 49.81 / 38
p0 −148.6 ± 117
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −91.44
Std Dev 405.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

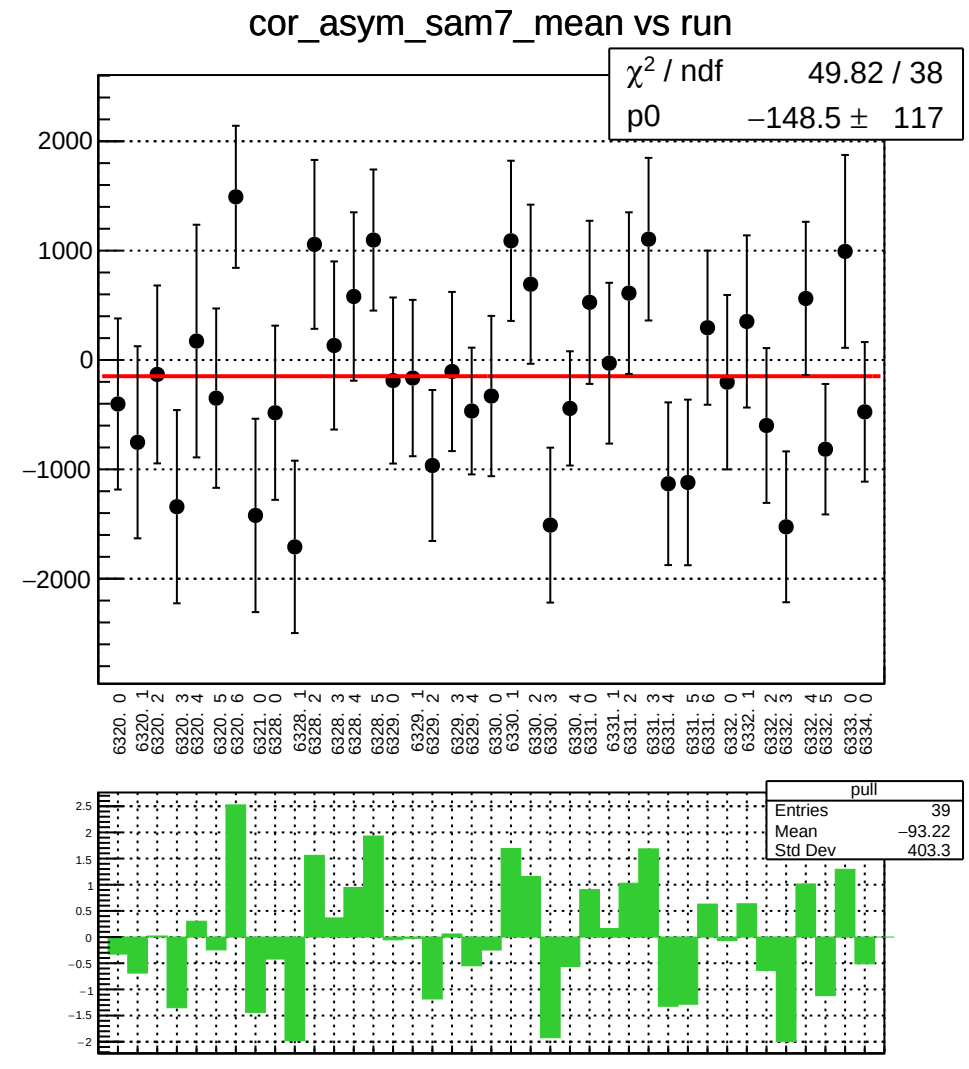

pull1D
Entries 39
Mean −0.0001063
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

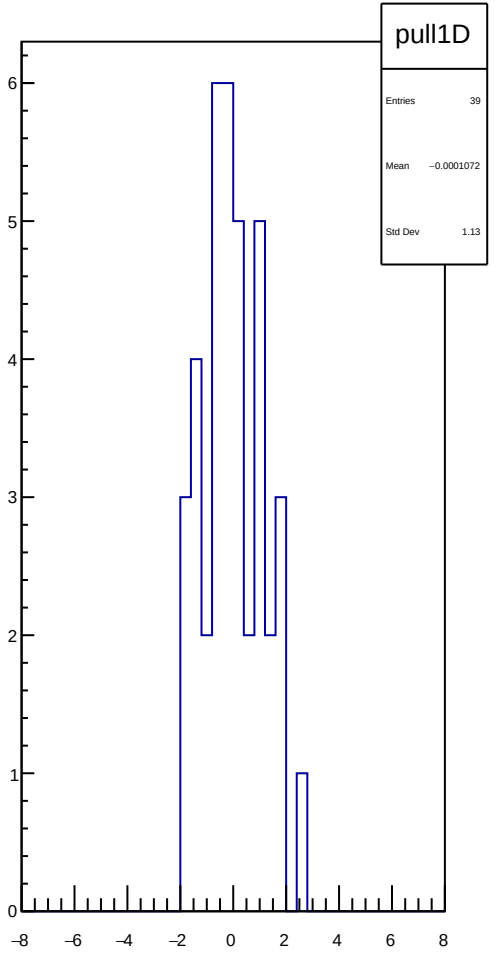

reg_asym_sam7_rms vs run
χ² / ndf 4802 / 38
p0 71.81 ± 0.08274
105
100
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

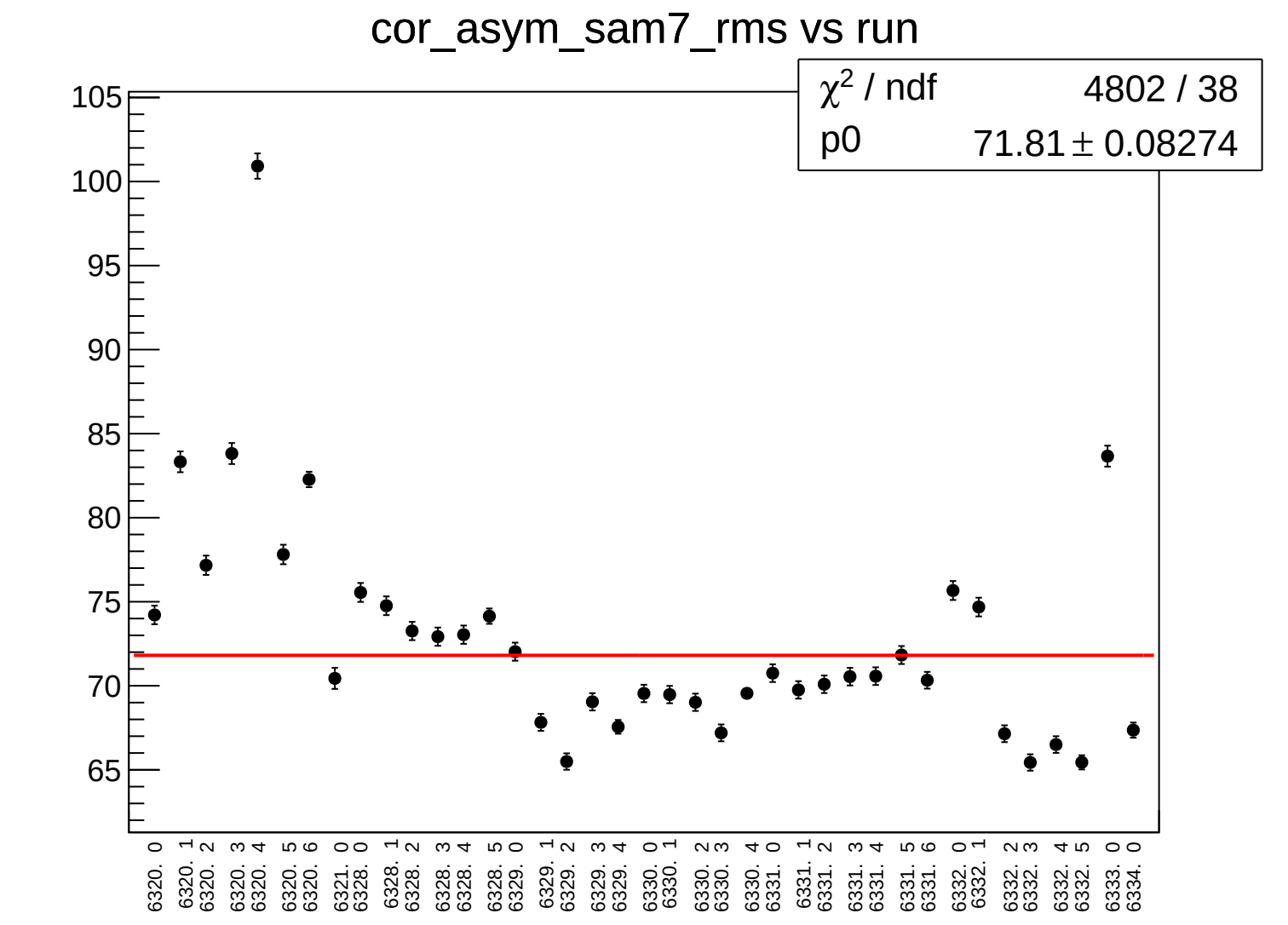

asym_sam7_reg_correction_mean vs run
χ² / ndf 31.22 / 38
p0 −616 ± 625.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.831
Std Dev 11.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

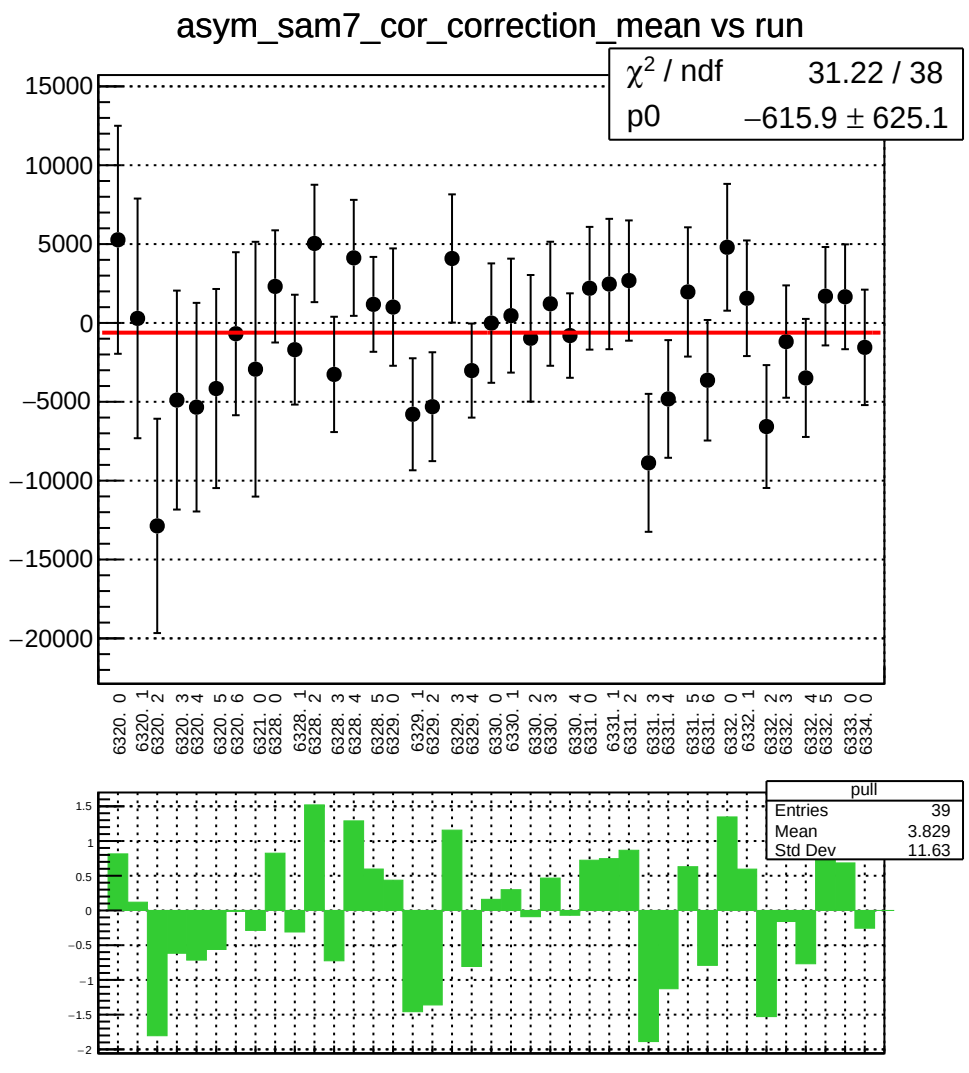

pull1D
Entries 39
Mean −0.03358
Std Dev 0.8941
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

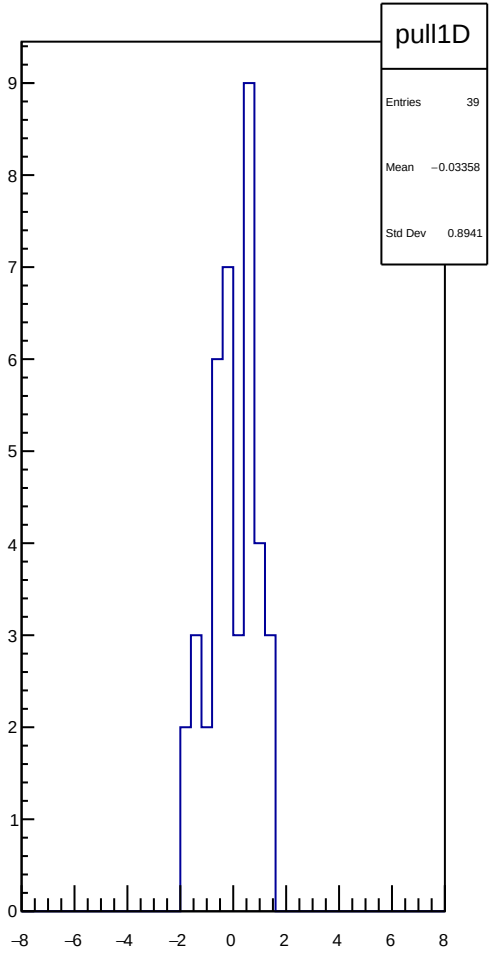

asym_sam7_reg_correction_rms vs run
χ² / ndf 3.158e+04 / 38
p0 376.7 ± 0.442
750
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

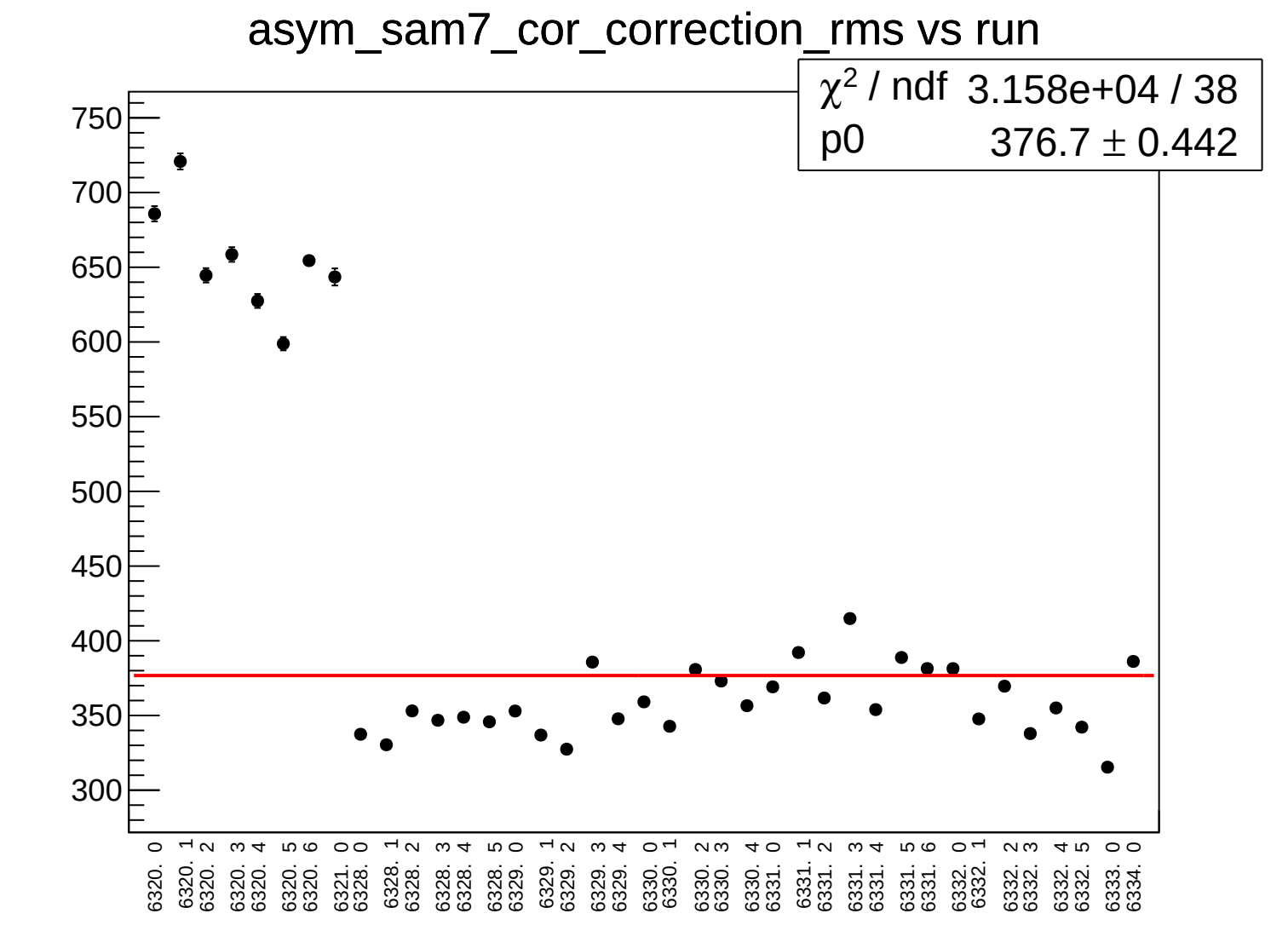

cor_asym_sam7_mean vs run
χ² / ndf 49.82 / 38
p0 −148.5 ± 117
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −93.22
Std Dev 403.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

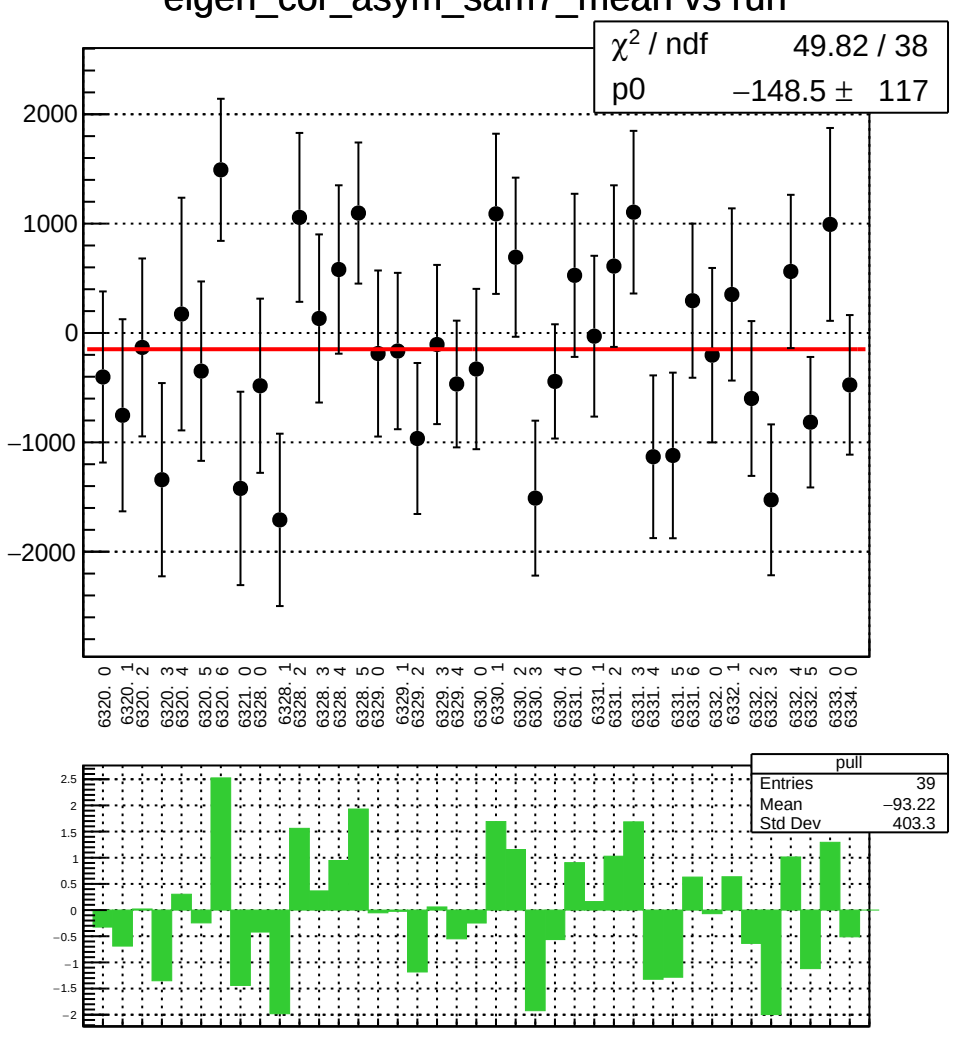

pull1D
Entries 39
Mean −0.0001072
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

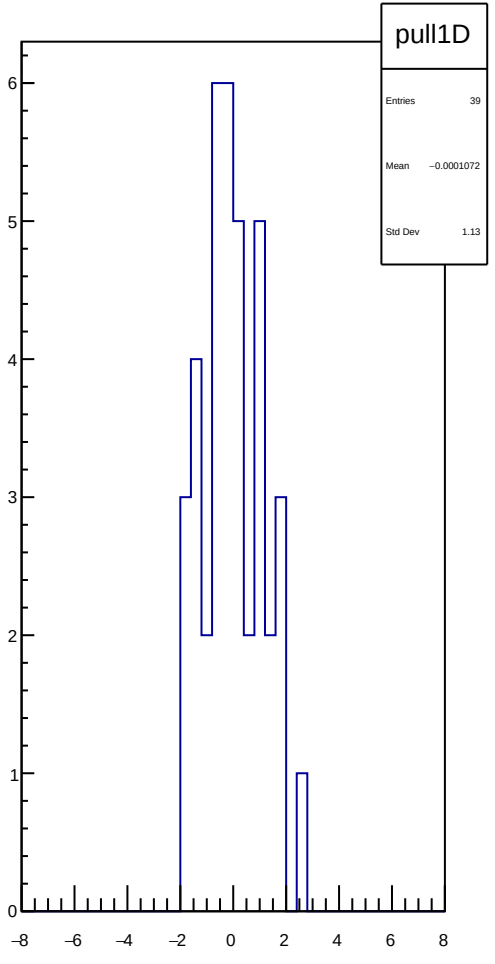

cor_asym_sam7_rms vs run
χ² / ndf 4802 / 38
p0 71.81 ± 0.08274
105
100
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

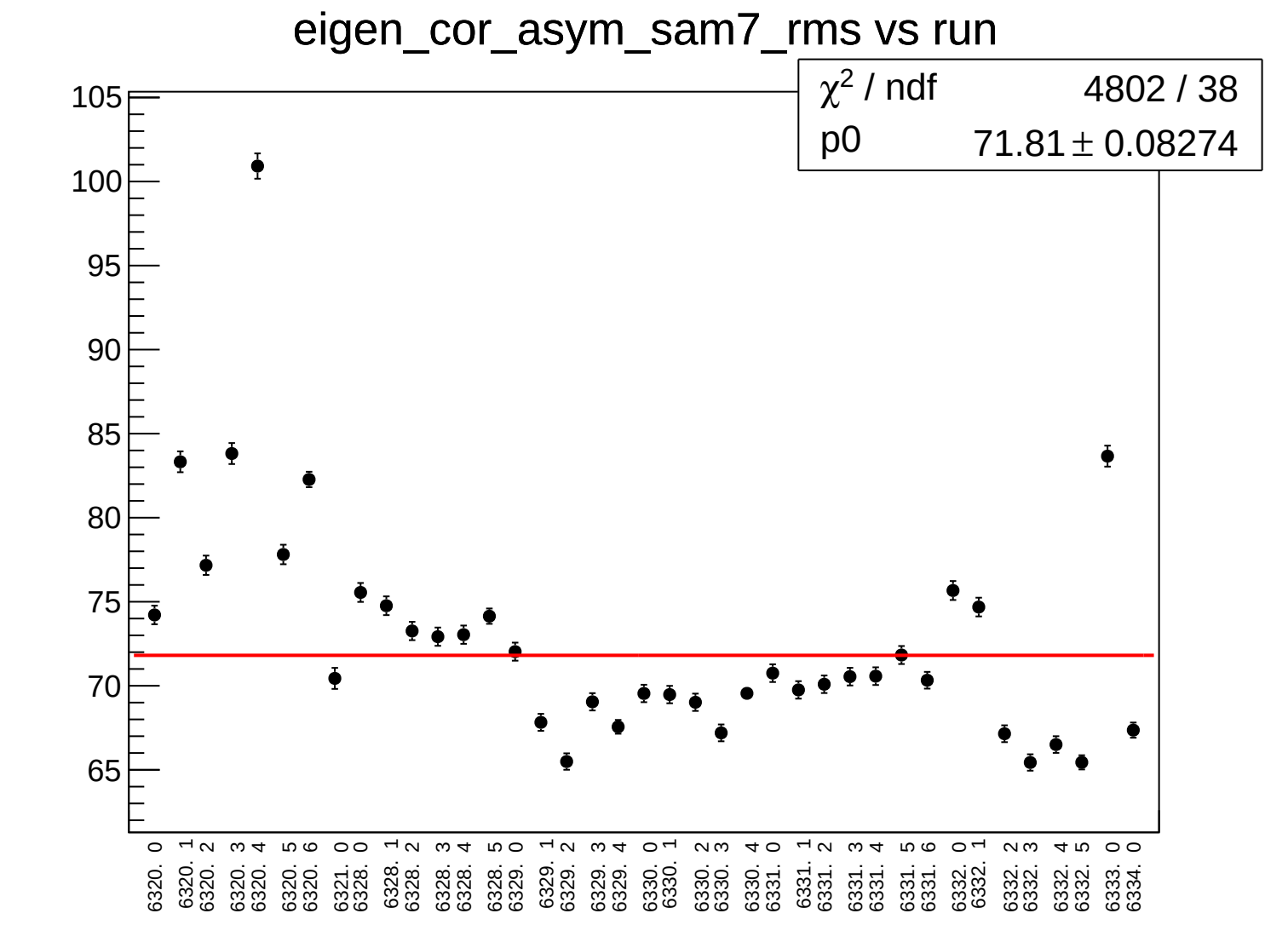

asym_sam7_cor_correction_mean vs run
χ² / ndf 31.22 / 38
p0 −615.9 ± 625.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.829
Std Dev 11.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

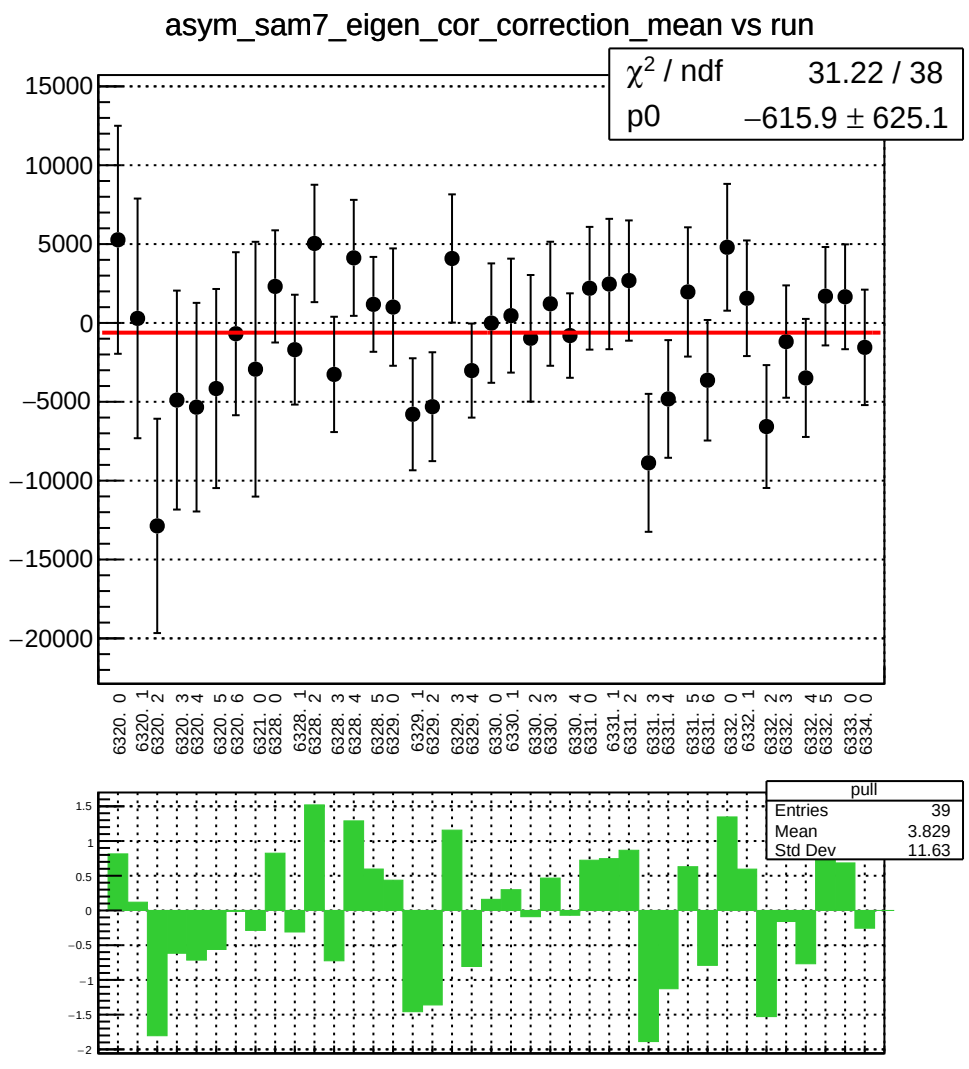

pull1D
Entries 39
Mean −0.03358
Std Dev 0.8941
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

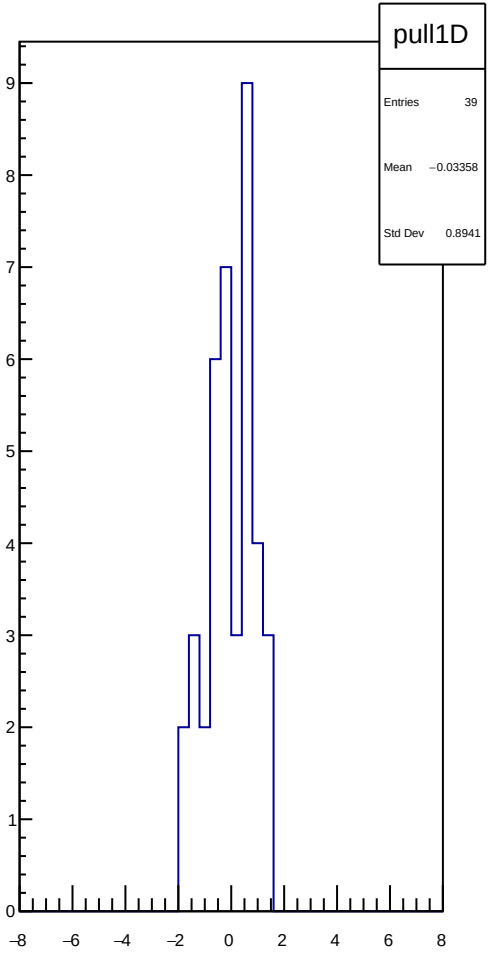

asym_sam7_cor_correction_rms vs run
χ² / ndf 3.158e+04 / 38
p0 376.7 ± 0.442
750
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

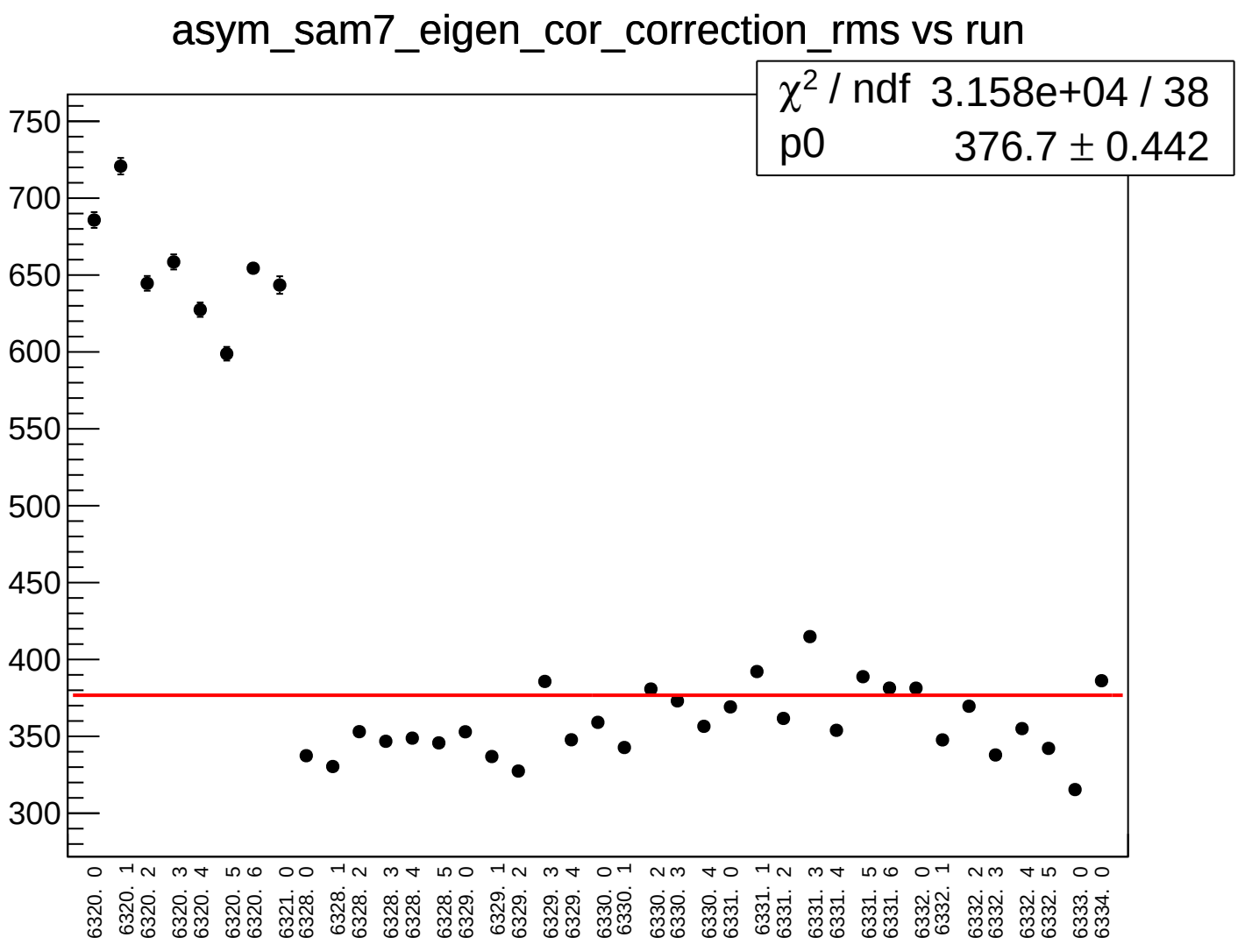

eigen_cor_asym_sam7_mean vs run
χ² / ndf 49.82 / 38
p0 −148.5 ± 117
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −93.22
Std Dev 403.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

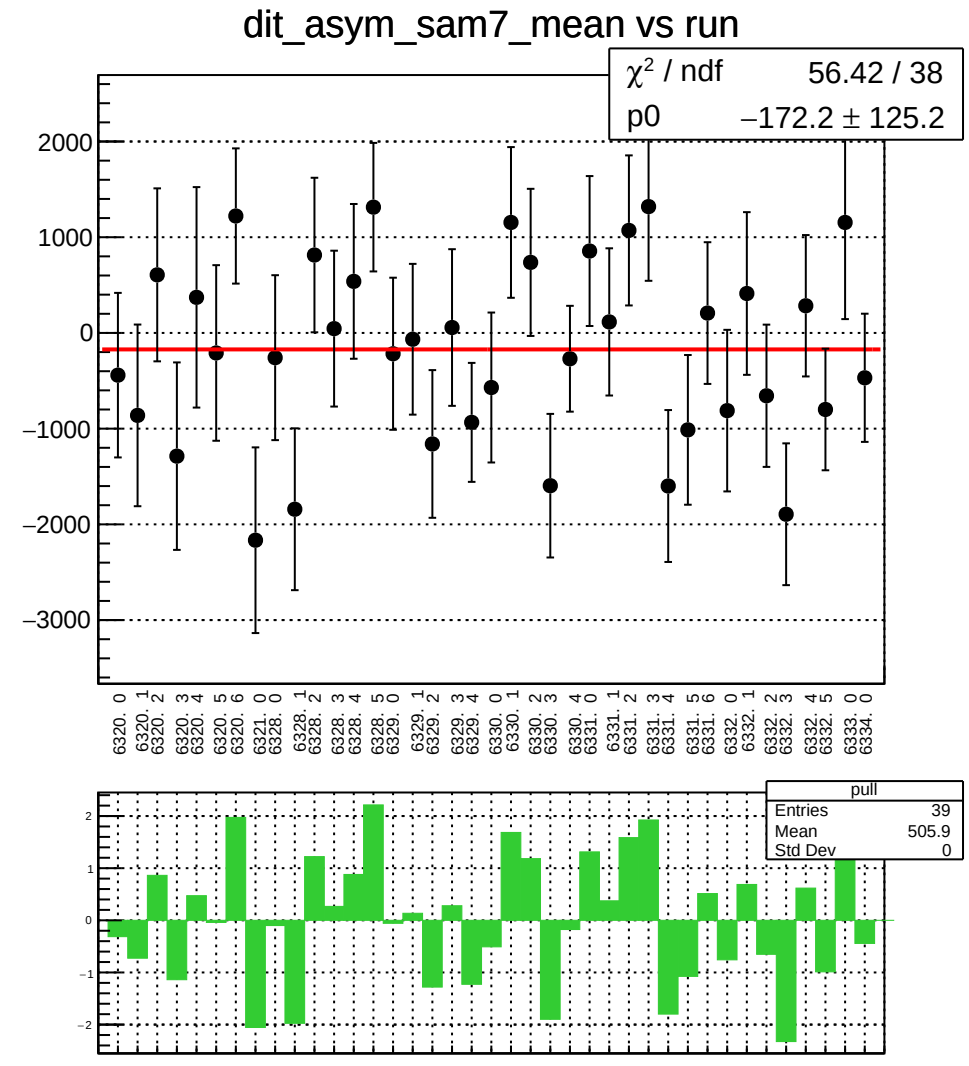

pull1D
Entries 39
Mean −0.0001072
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

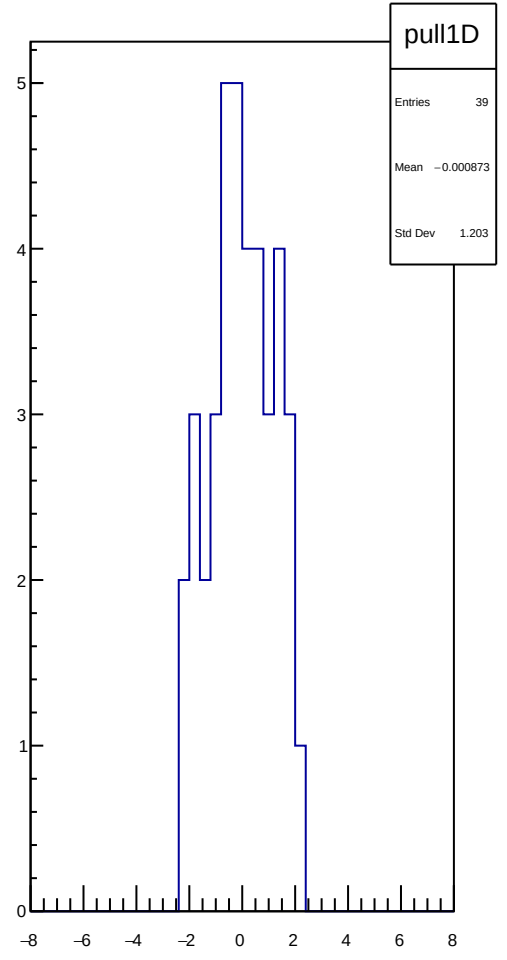

eigen_cor_asym_sam7_rms vs run
χ² / ndf 4802 / 38
p0 71.81 ± 0.08274
105
100
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

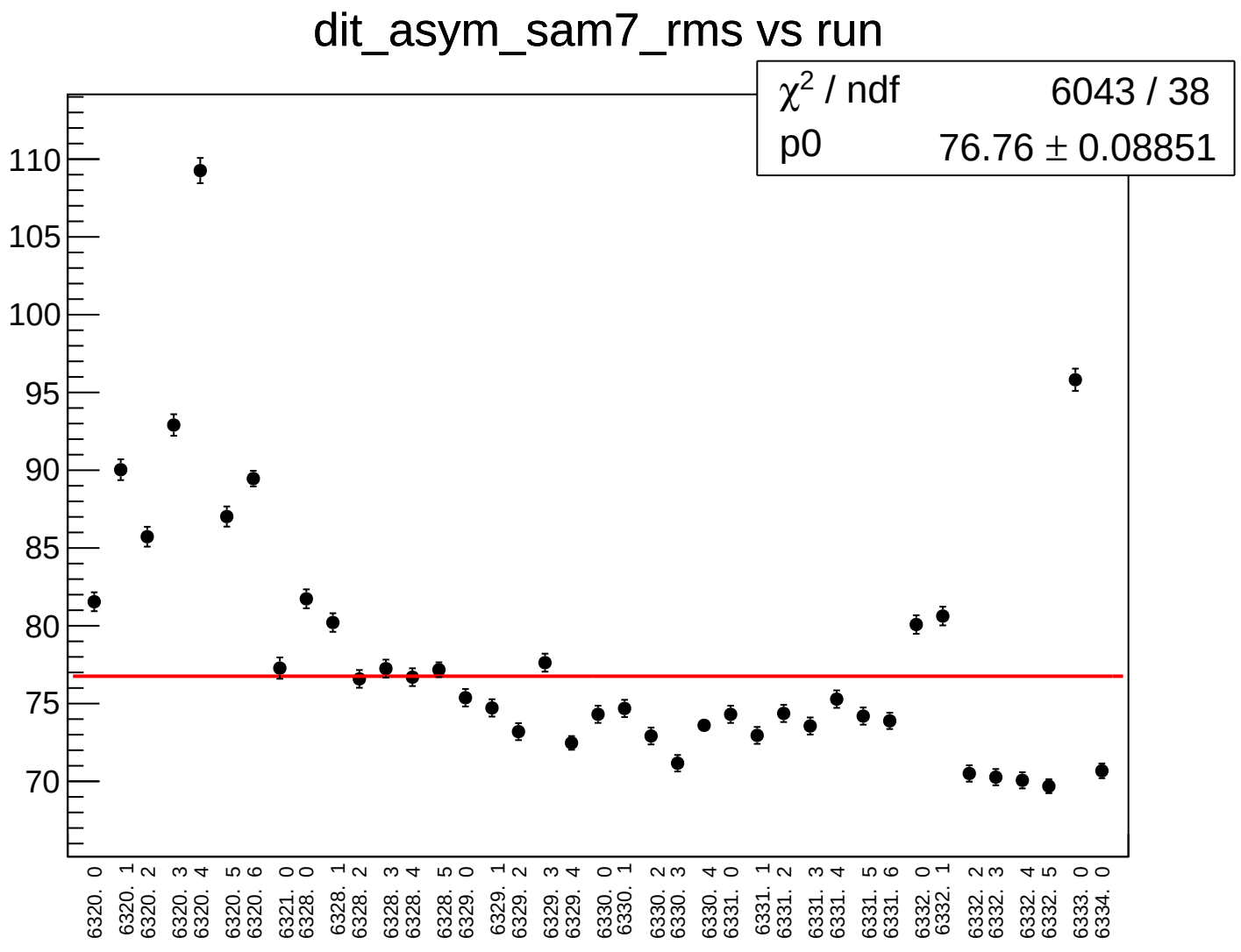

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 31.22 / 38
p0 −615.9 ± 625.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.829
Std Dev 11.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

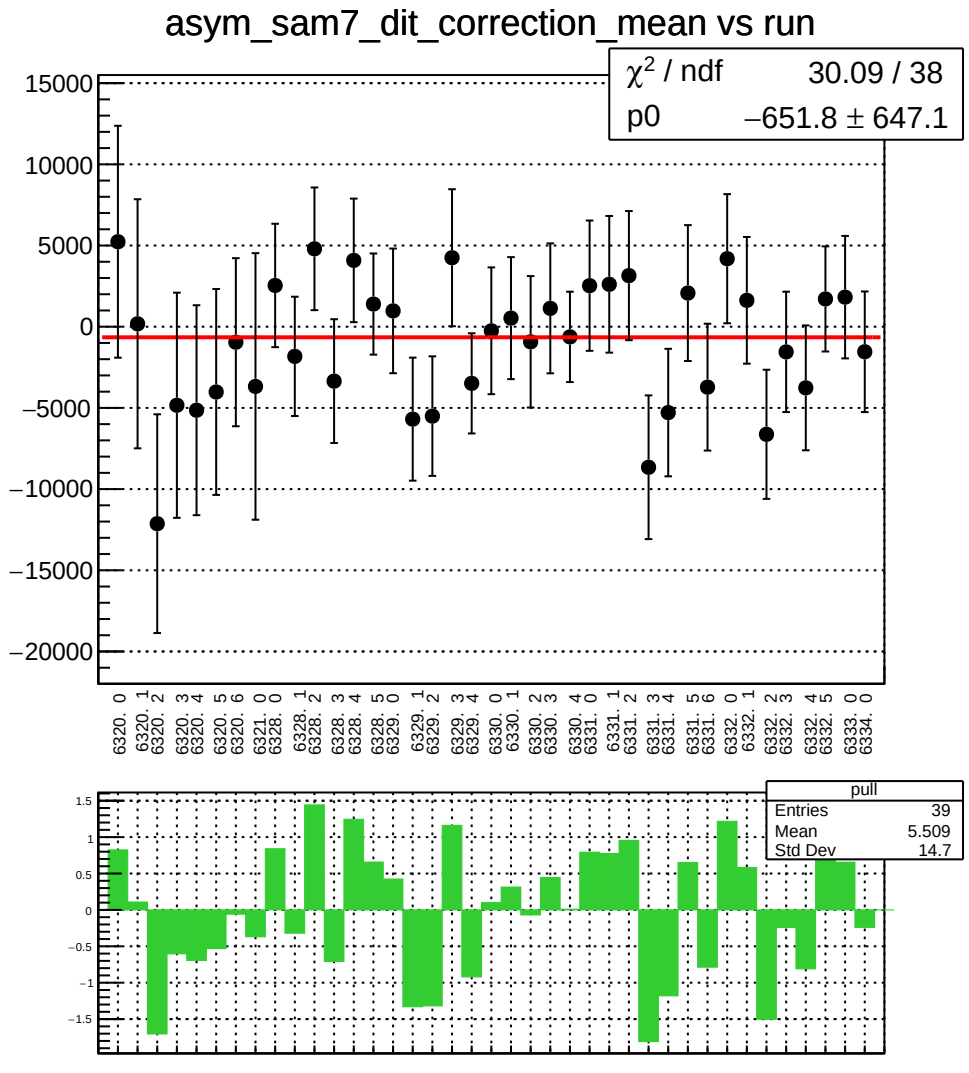

pull1D
Entries 39
Mean −0.03358
Std Dev 0.8941
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

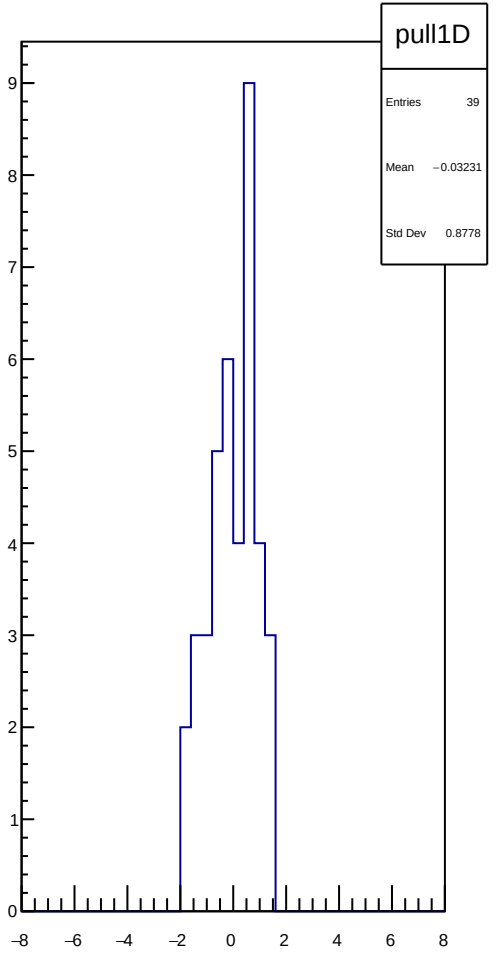

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3.158e+04 / 38
p0 376.7 ± 0.442
750
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

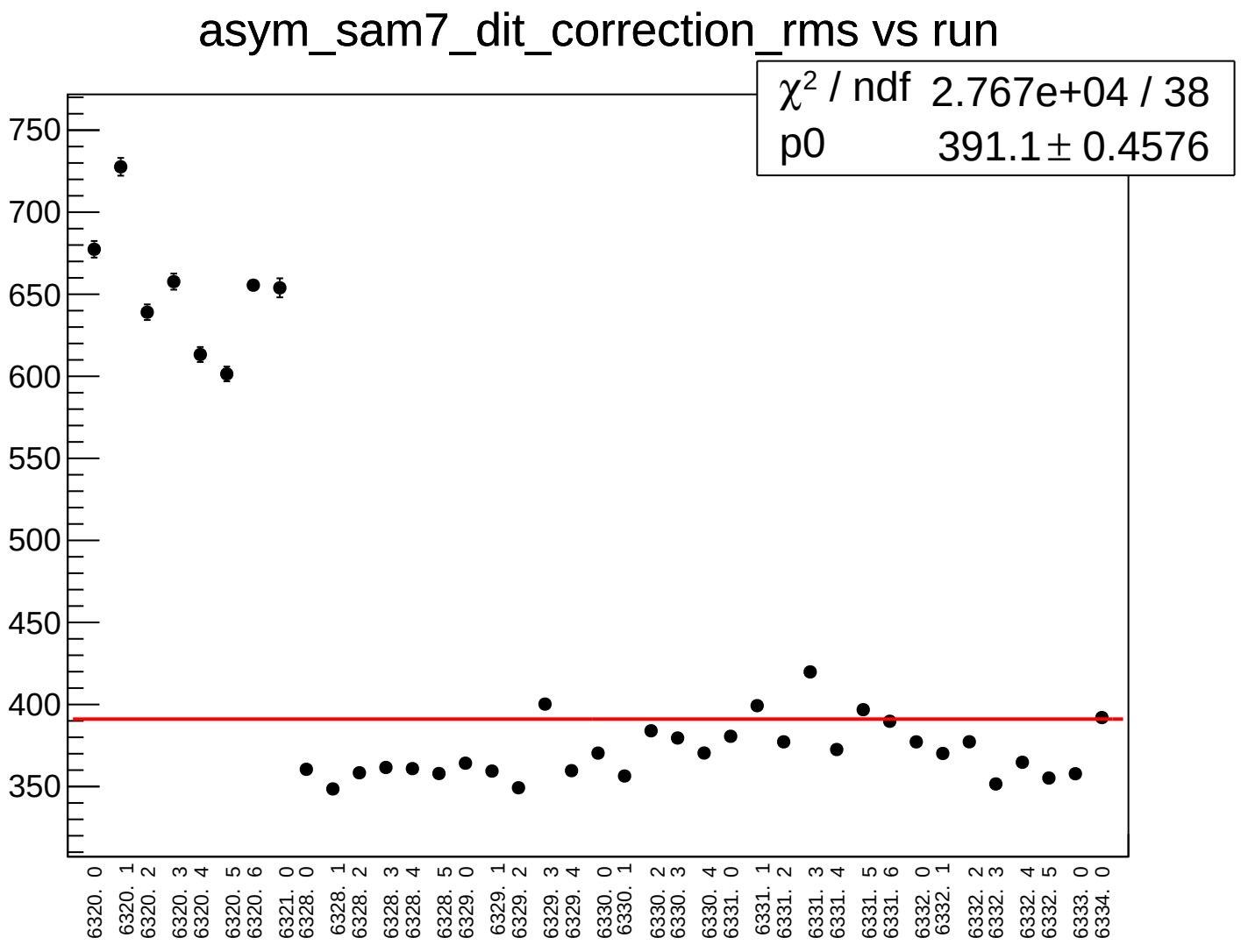

dit_asym_sam7_mean vs run
χ² / ndf 56.42 / 38
p0 −172.2 ± 125.2
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 505.9
Std Dev 0
2
1
0
−1
−2

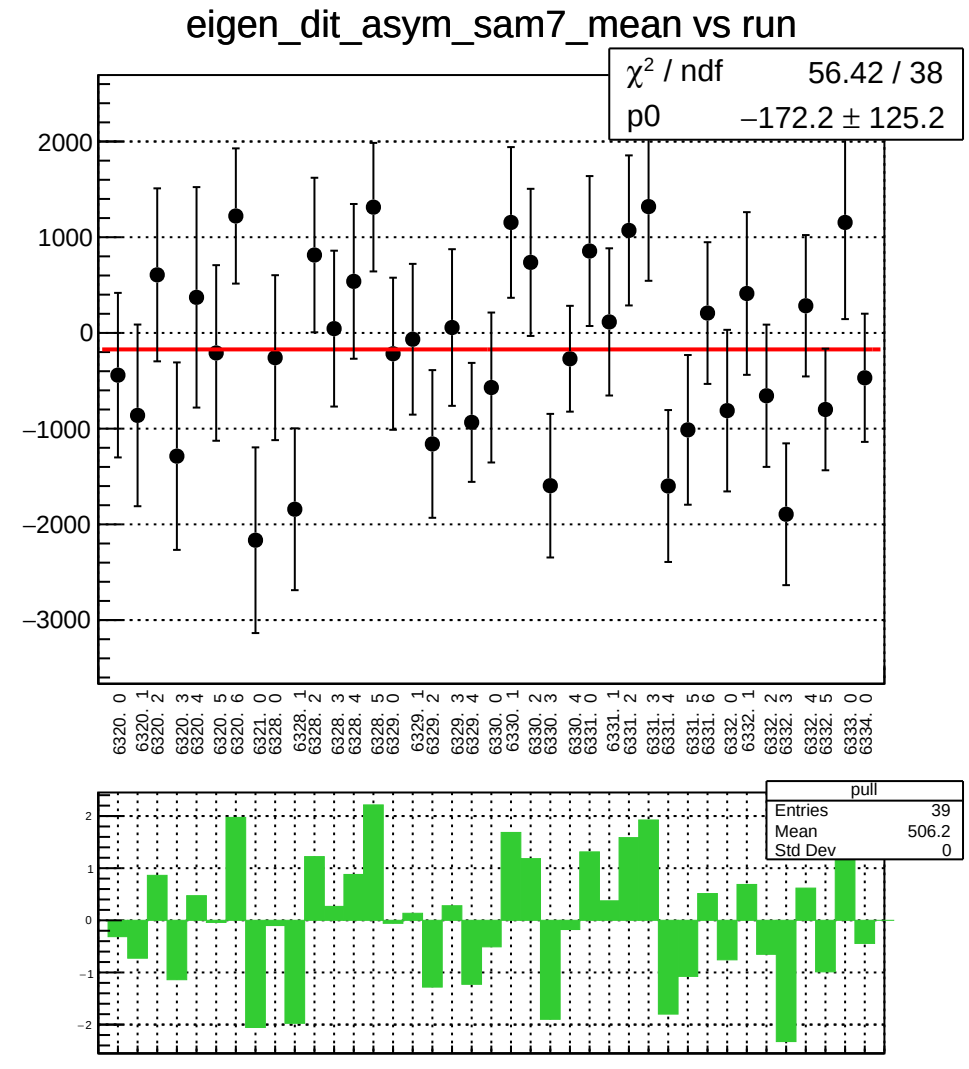

pull1D
Entries 39
Mean −0.000873
Std Dev 1.203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

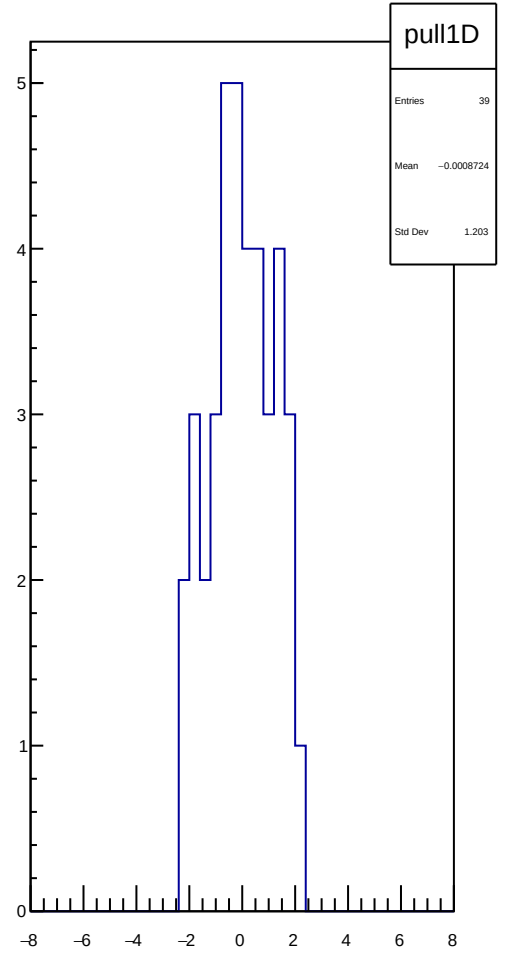

dit_asym_sam7_rms vs run
χ² / ndf 6043 / 38
p0 76.76 ± 0.08851
110
105
100
95
90
85
80
75
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

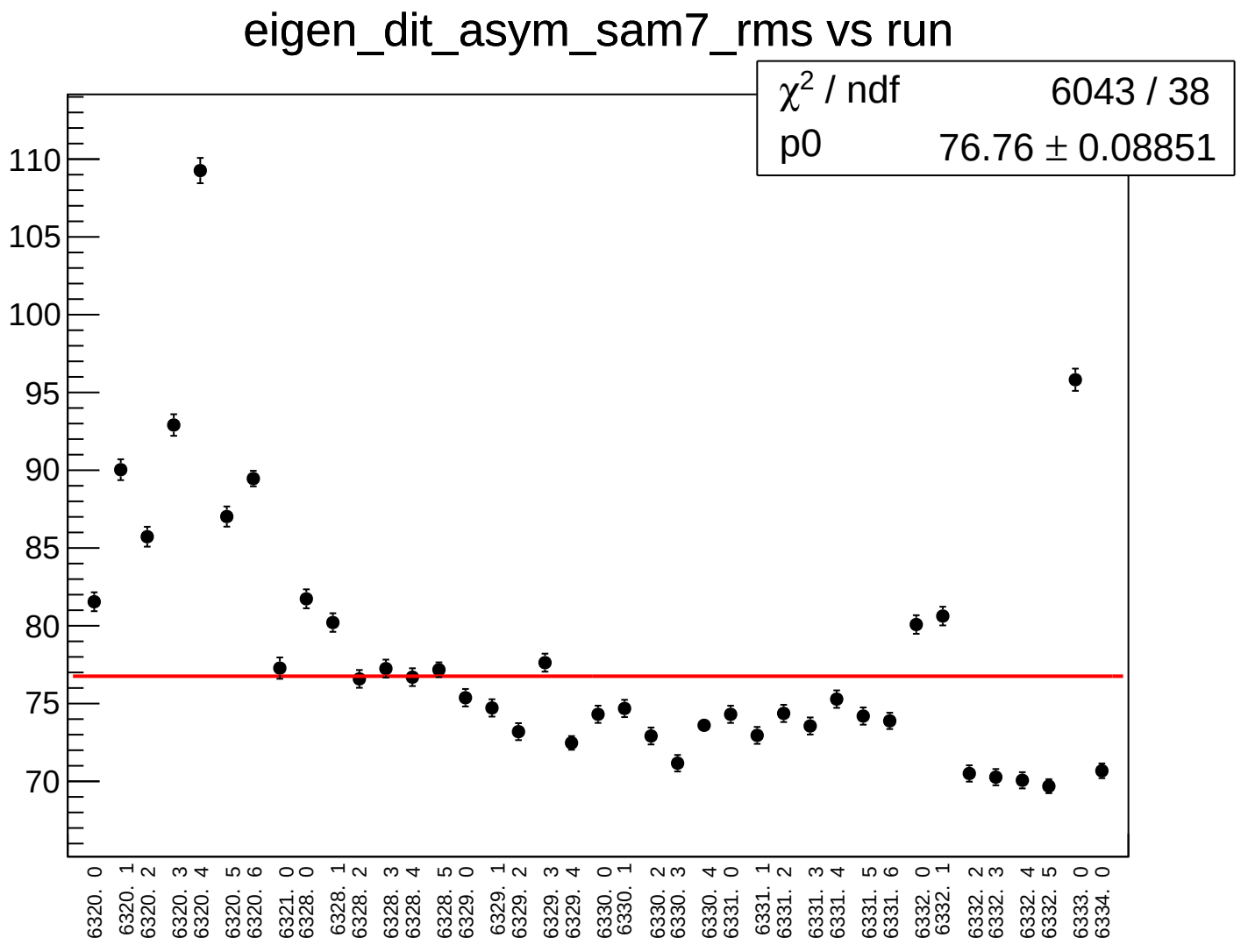

asym_sam7_dit_correction_mean vs run
χ² / ndf 30.09 / 38
p0 −651.8 ± 647.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.509
Std Dev 14.7
1.5
1
0.5
0
−0.5
−1
−1.5

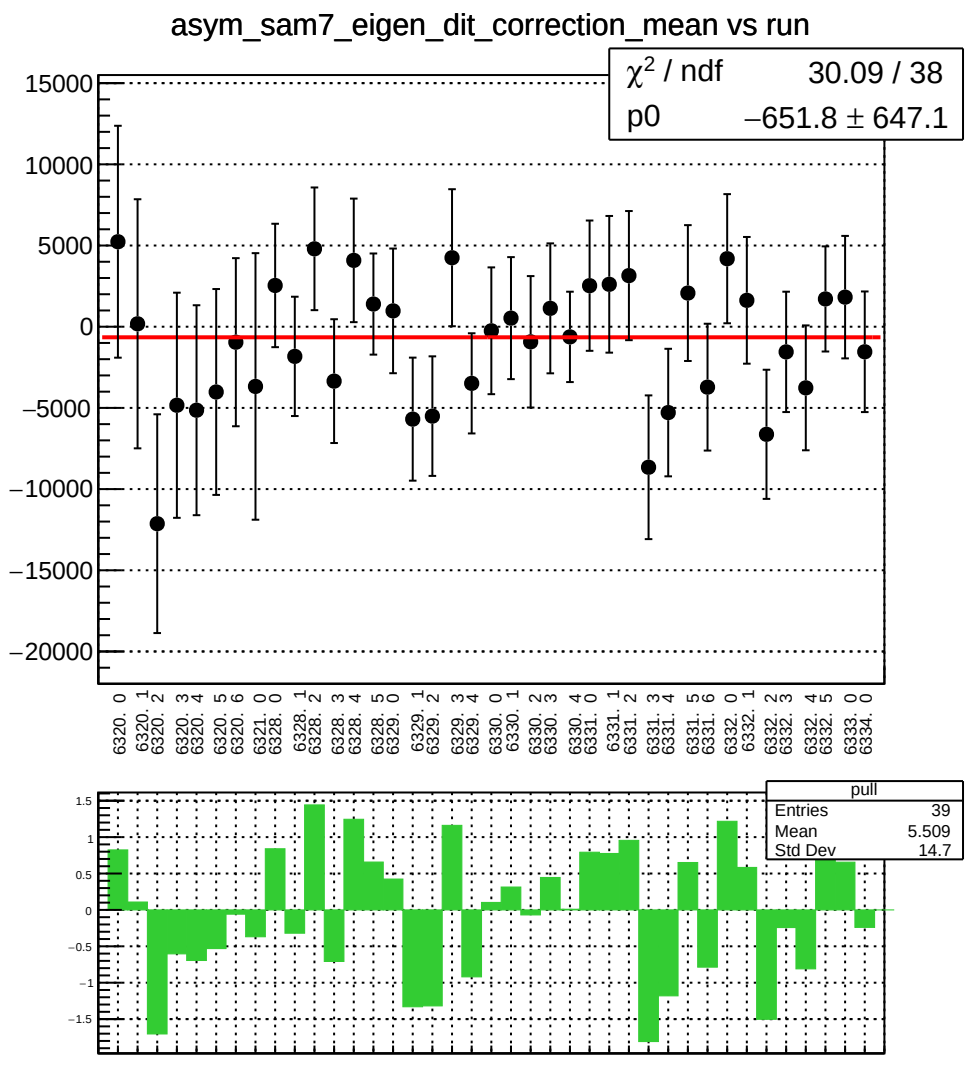

pull1D
Entries 39
Mean −0.03231
Std Dev 0.8778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

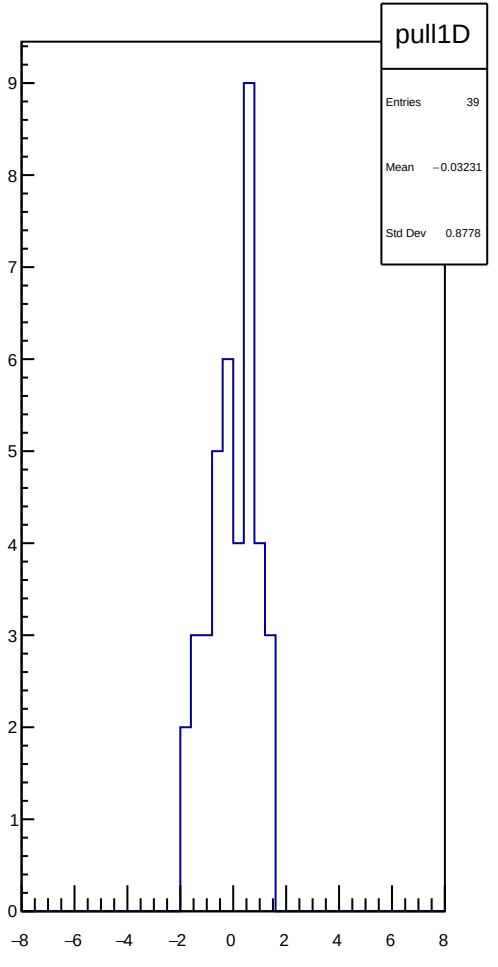

asym_sam7_dit_correction_rms vs run
χ² / ndf 2.767e+04 / 38
p0 391.1 ± 0.4576
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

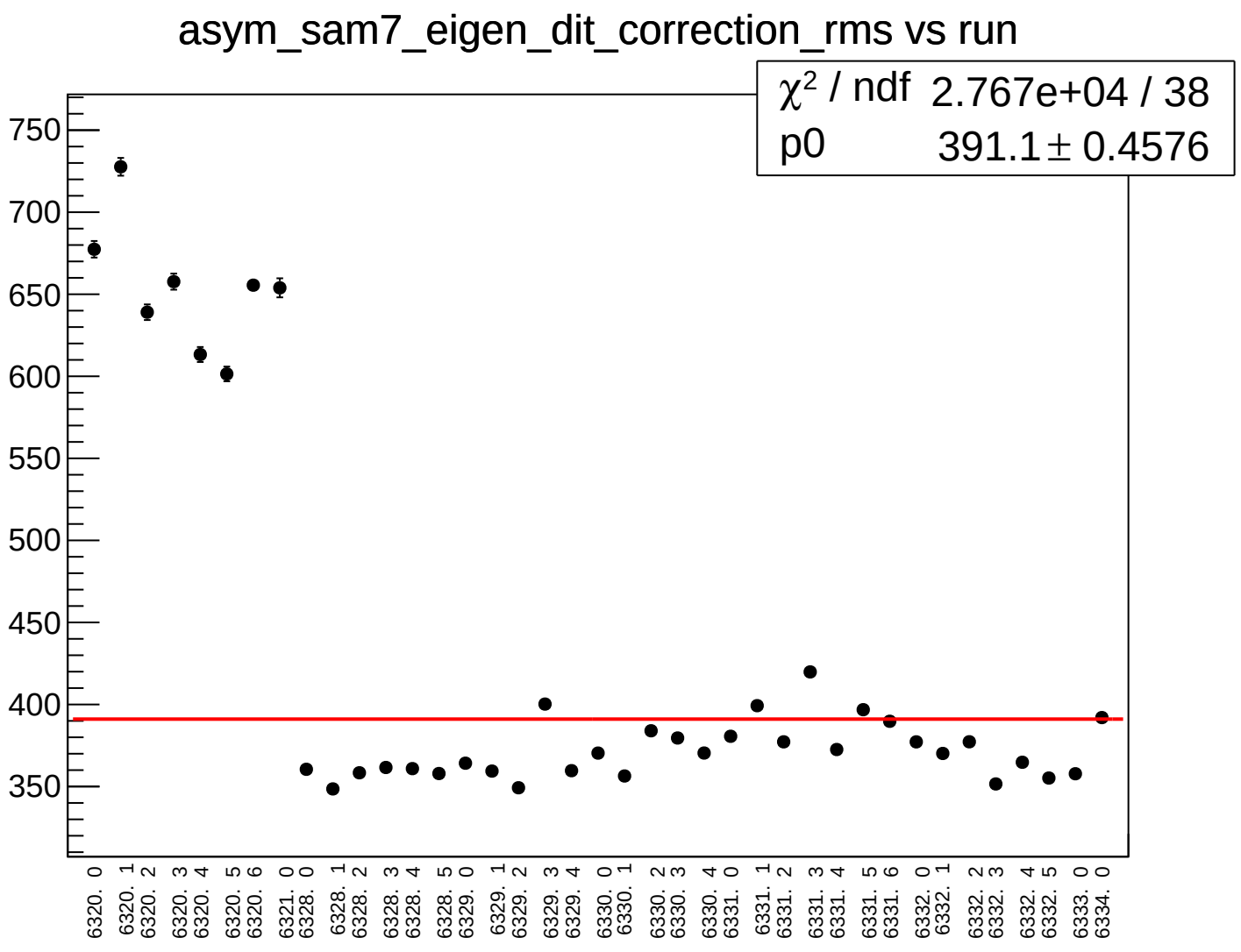

eigen_dit_asym_sam7_mean vs run
χ² / ndf 56.42 / 38
p0 −172.2 ± 125.2
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 506.2
Std Dev 0
2
1
0
−1
−2

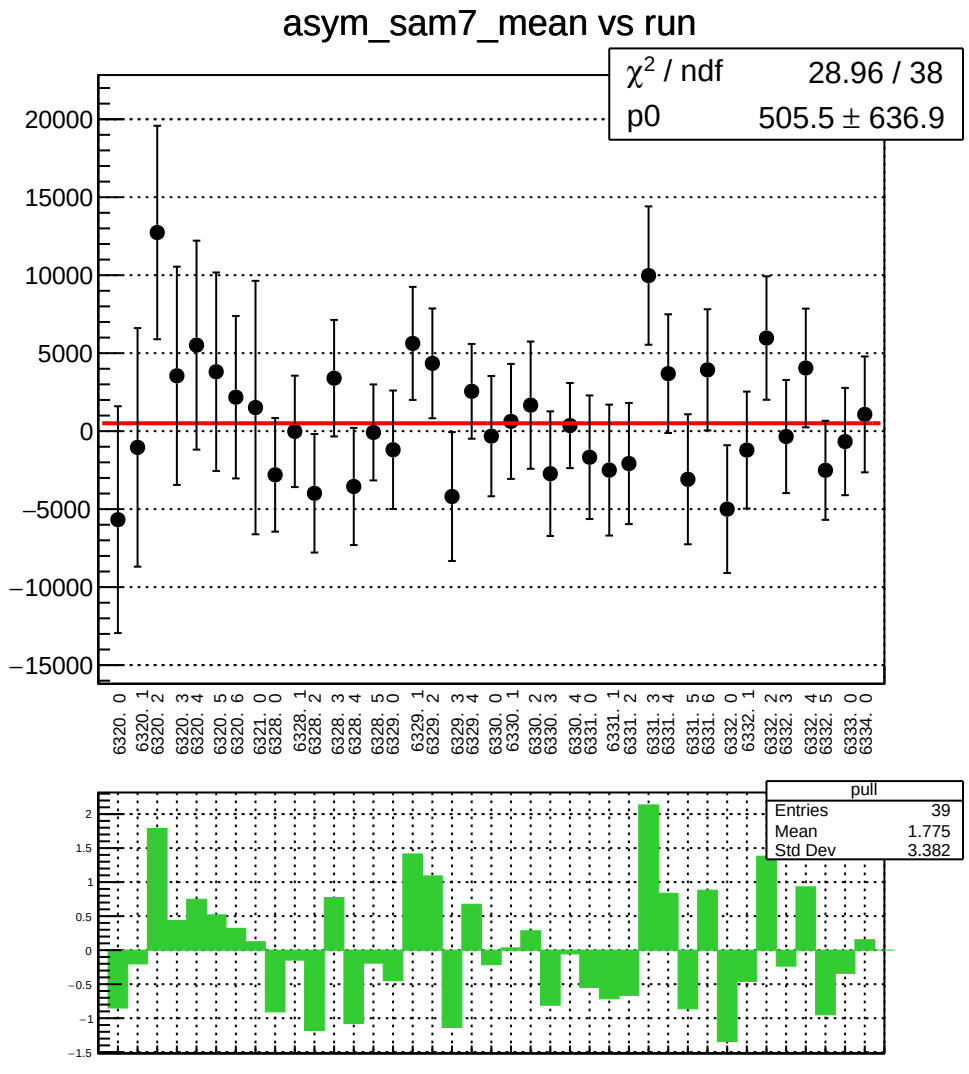

pull1D
Entries 39
Mean −0.0008724
Std Dev 1.203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

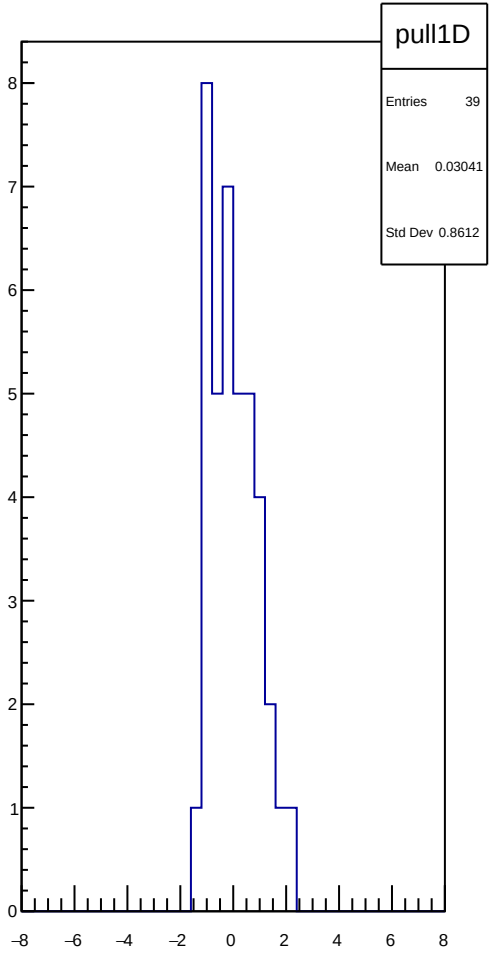

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 6043 / 38
p0 76.76 ± 0.08851
110
105
100
95
90
85
80
75
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

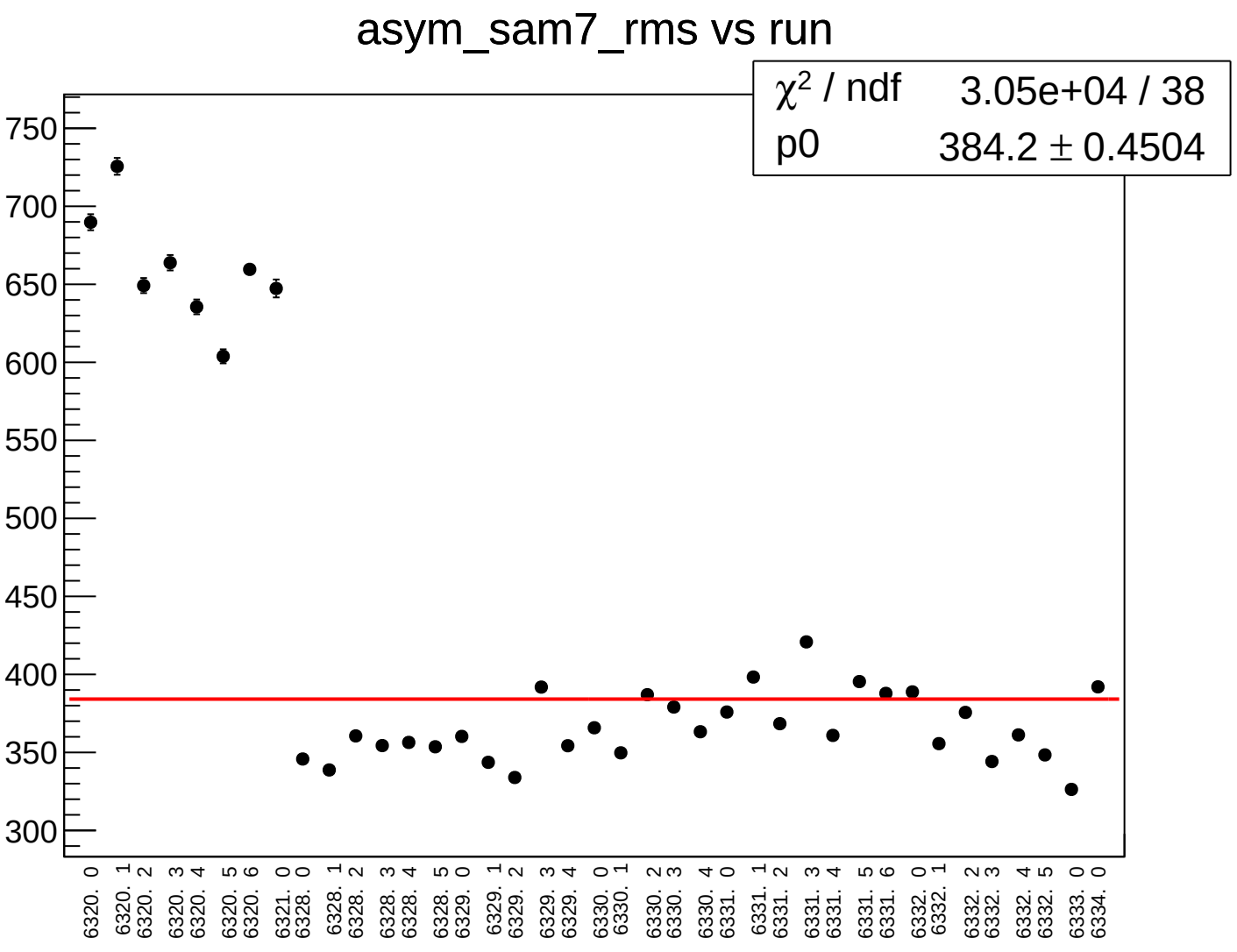

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 30.09 / 38
p0 −651.8 ± 647.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 5.509
Std Dev 14.7
1.5
1
0.5
0
−0.5
−1
−1.5

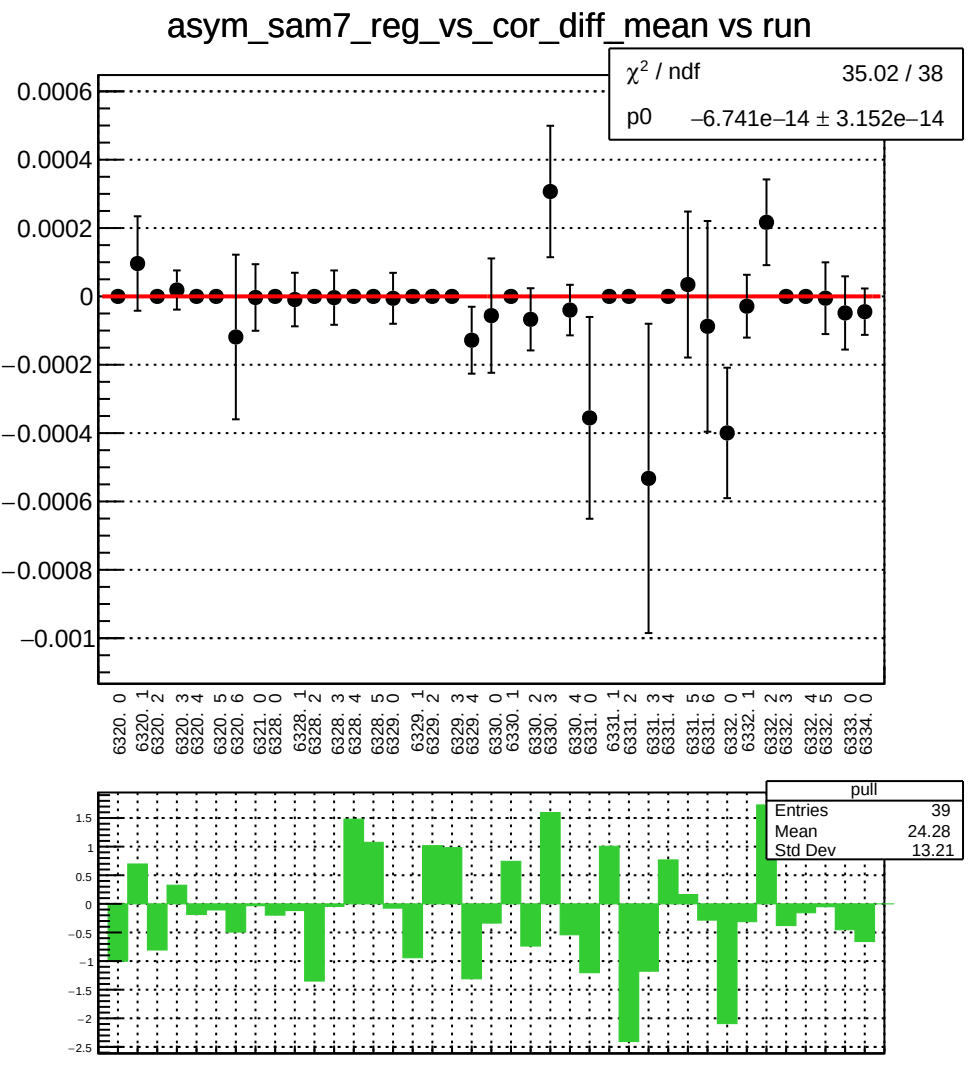

pull1D
Entries 39
Mean −0.03231
Std Dev 0.8778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

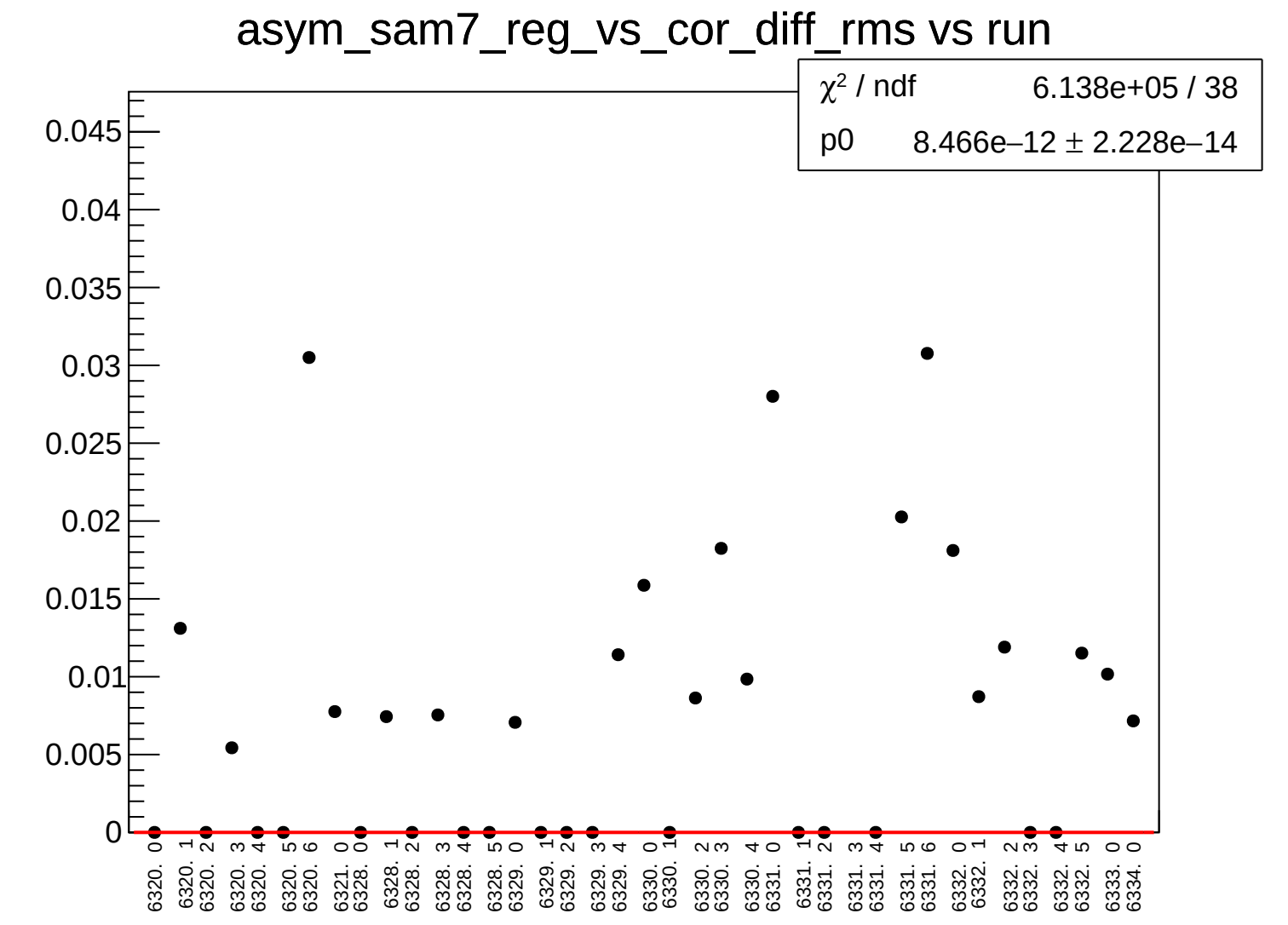

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2.767e+04 / 38
p0 391.1 ± 0.4576
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

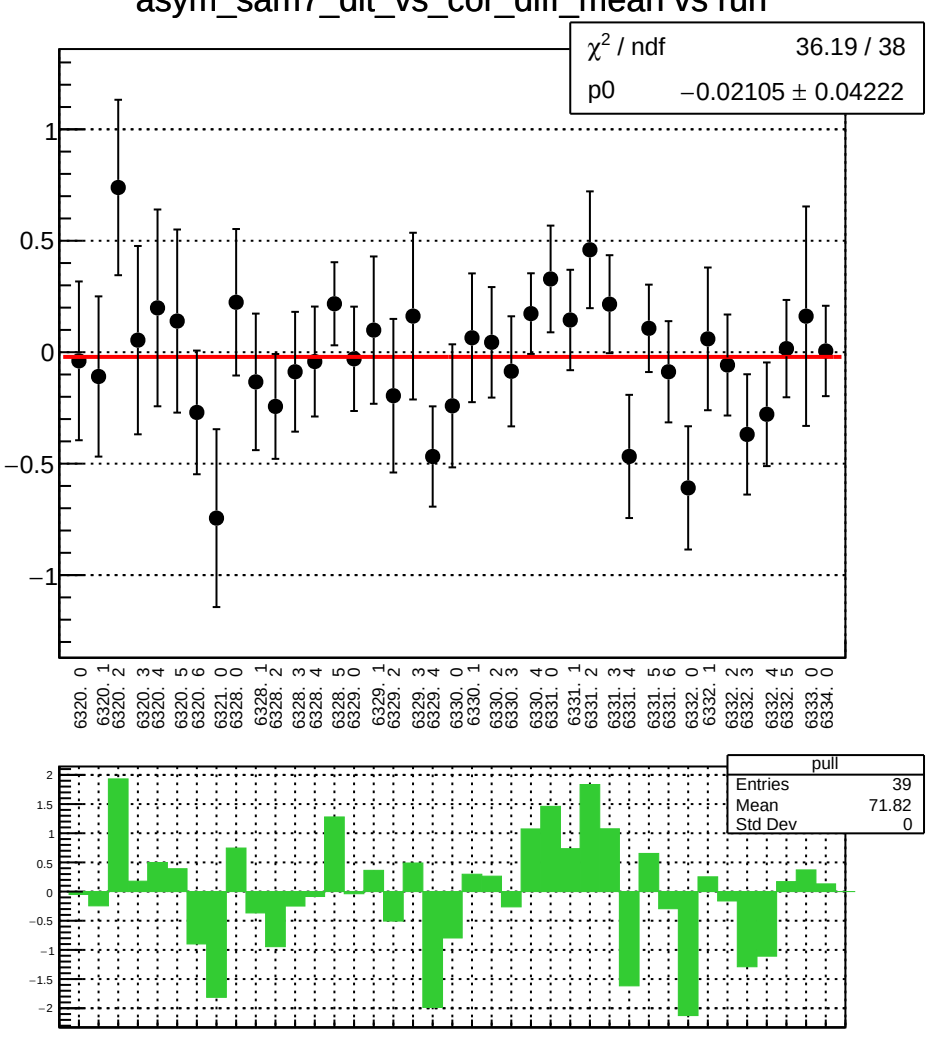

asym_sam7_mean vs run
χ² / ndf 28.96 / 38
p0 505.5 ± 636.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.775
Std Dev 3.382
2
1.5
1
0.5
0
−0.5
−1
−1.5

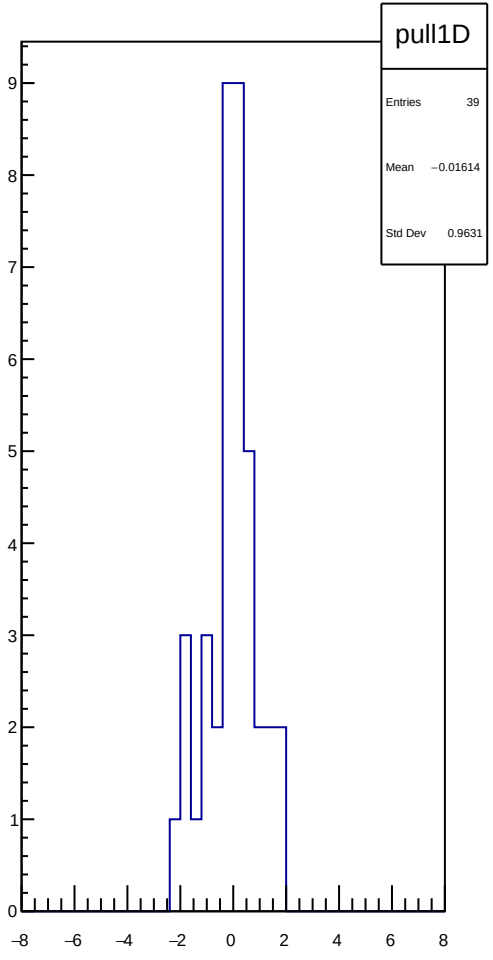

pull1D
Entries 39
Mean 0.03041
Std Dev 0.8612
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

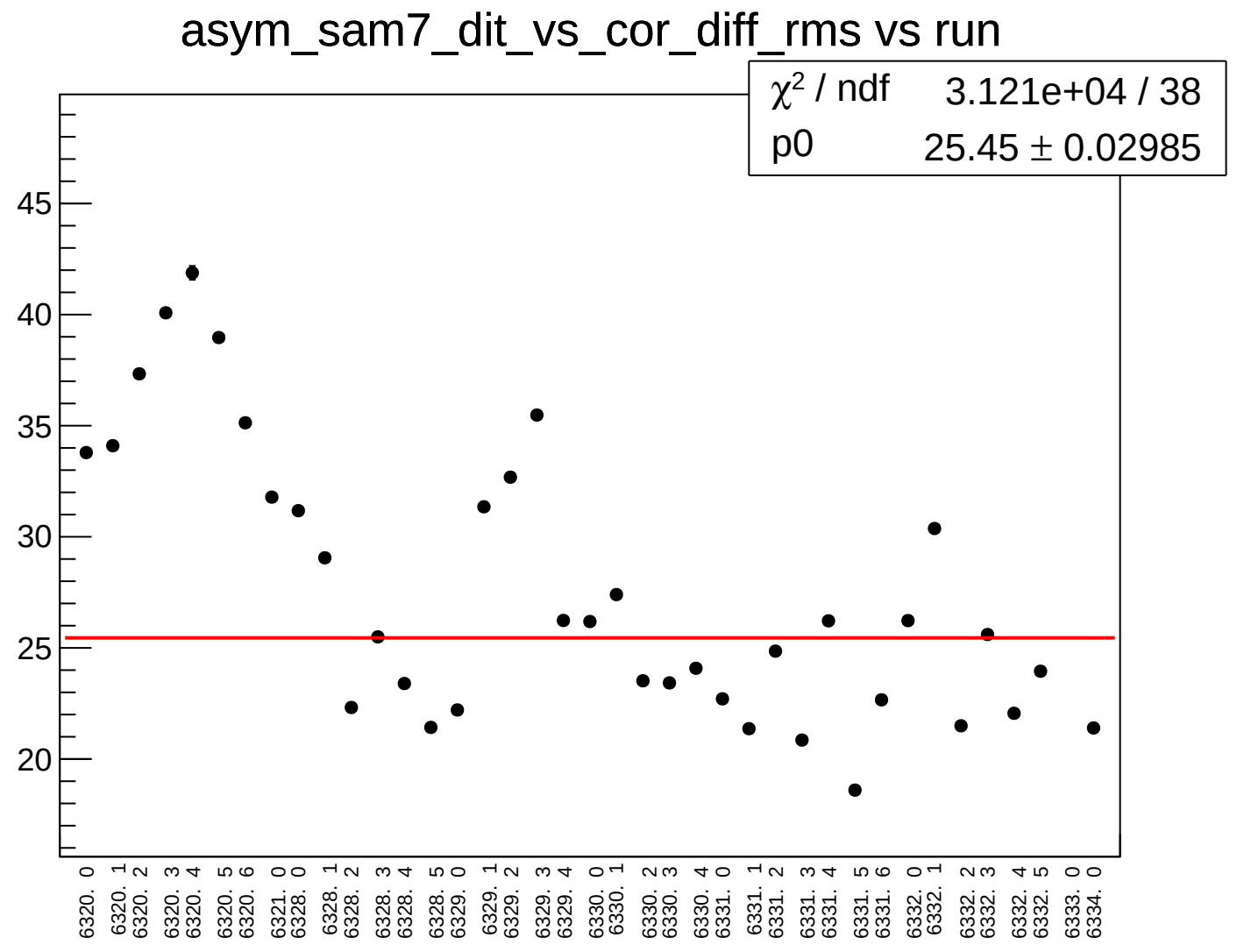

asym_sam7_rms vs run
χ² / ndf 3.05e+04 / 38
p0 384.2 ± 0.4504
750
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

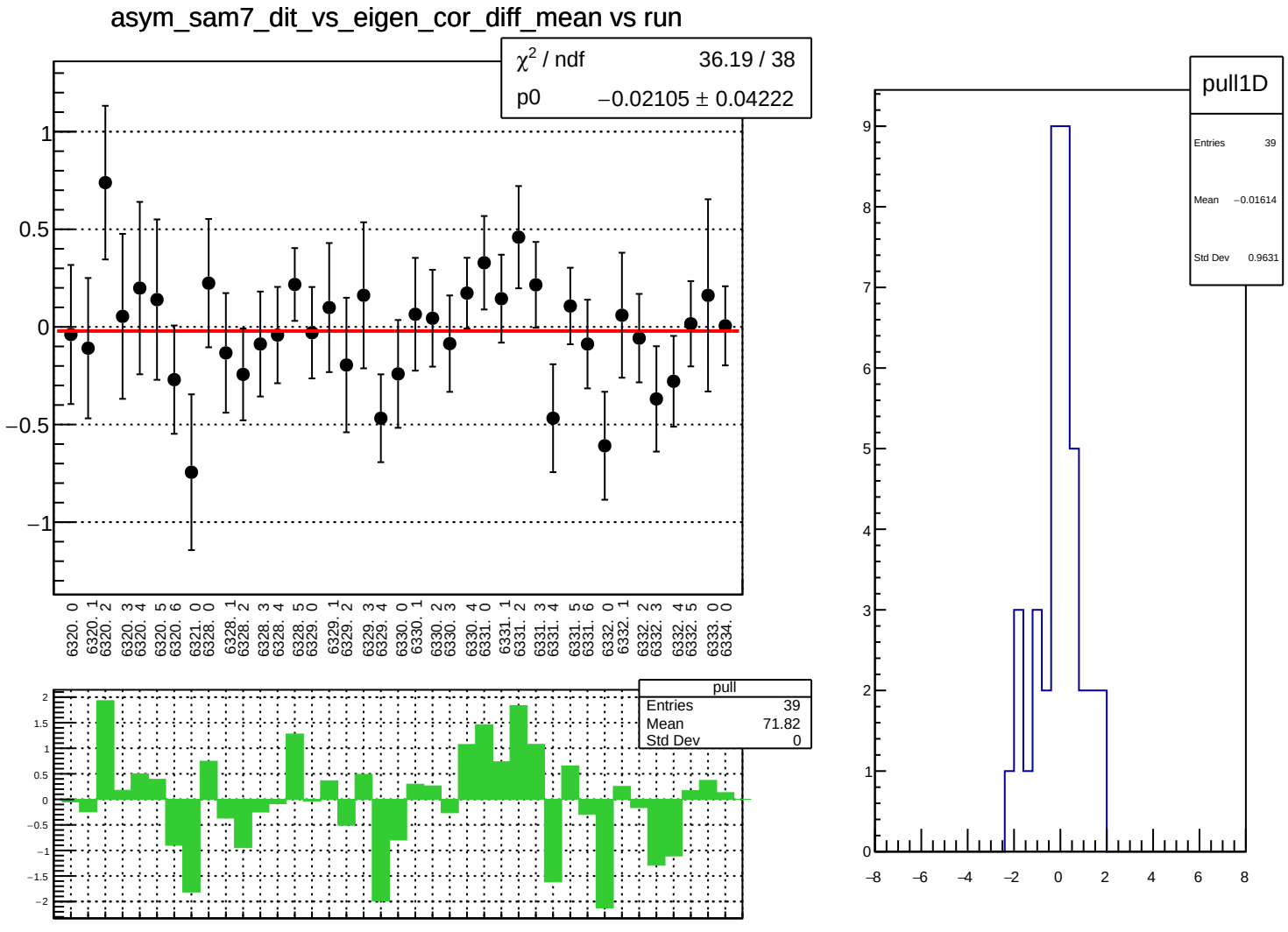

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 35.02 / 38
p0 −6.741e−14 ± 3.152e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 24.28
Std Dev 13.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.1504
Std Dev 0.9356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

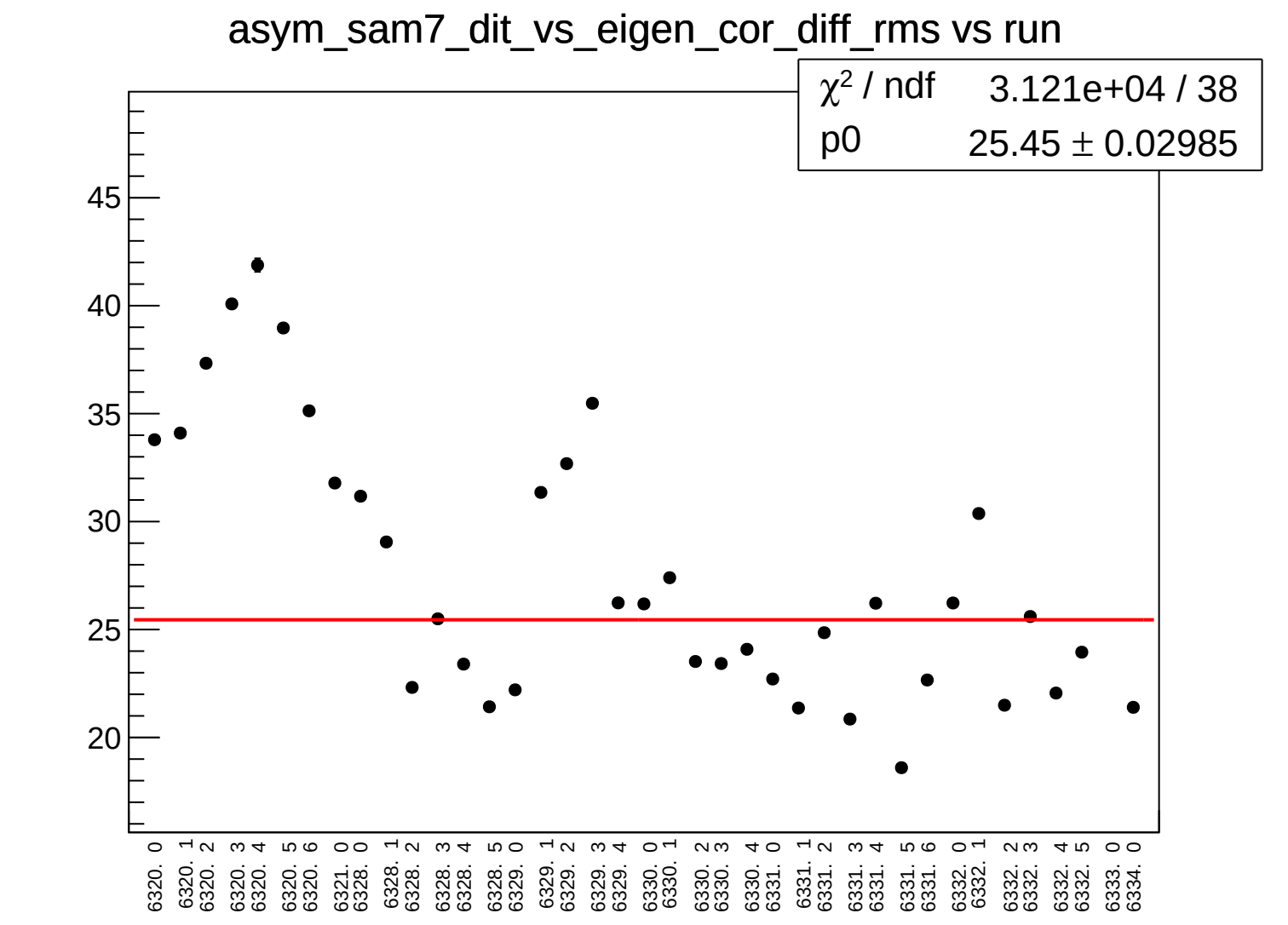

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 6.138e+05 / 38
p0 8.466e−12 ± 2.228e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

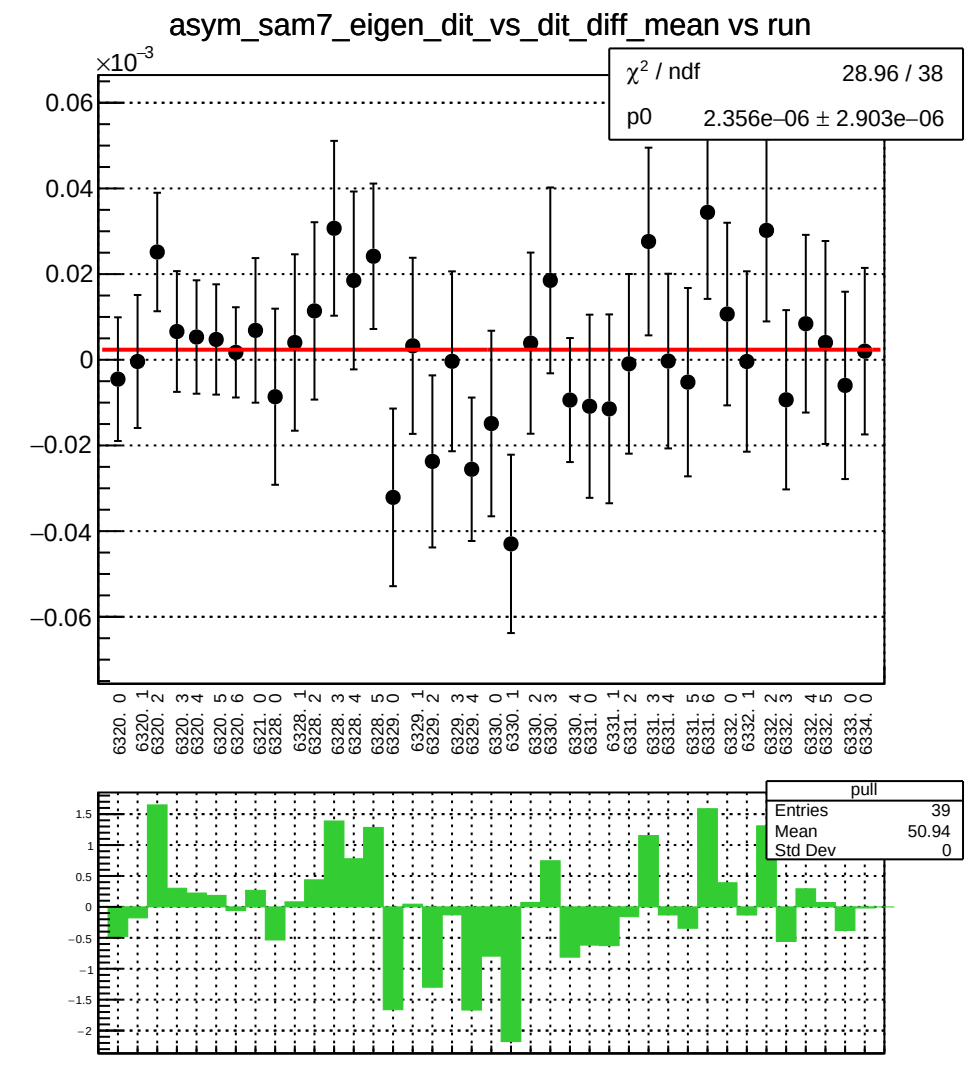

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 −0.02105 ± 0.04222
pull
Entries 39
Mean 71.82
Std Dev 0

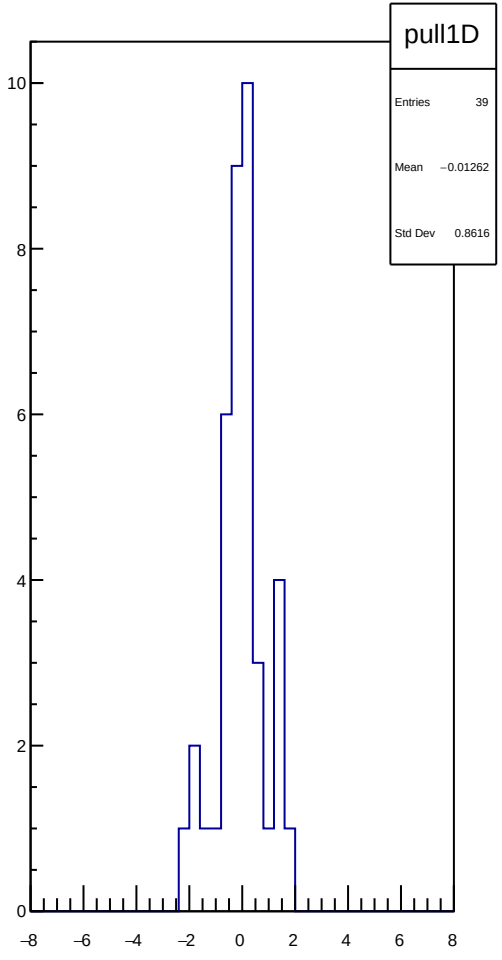

pull1D
Entries 39
Mean −0.01614
Std Dev 0.9631

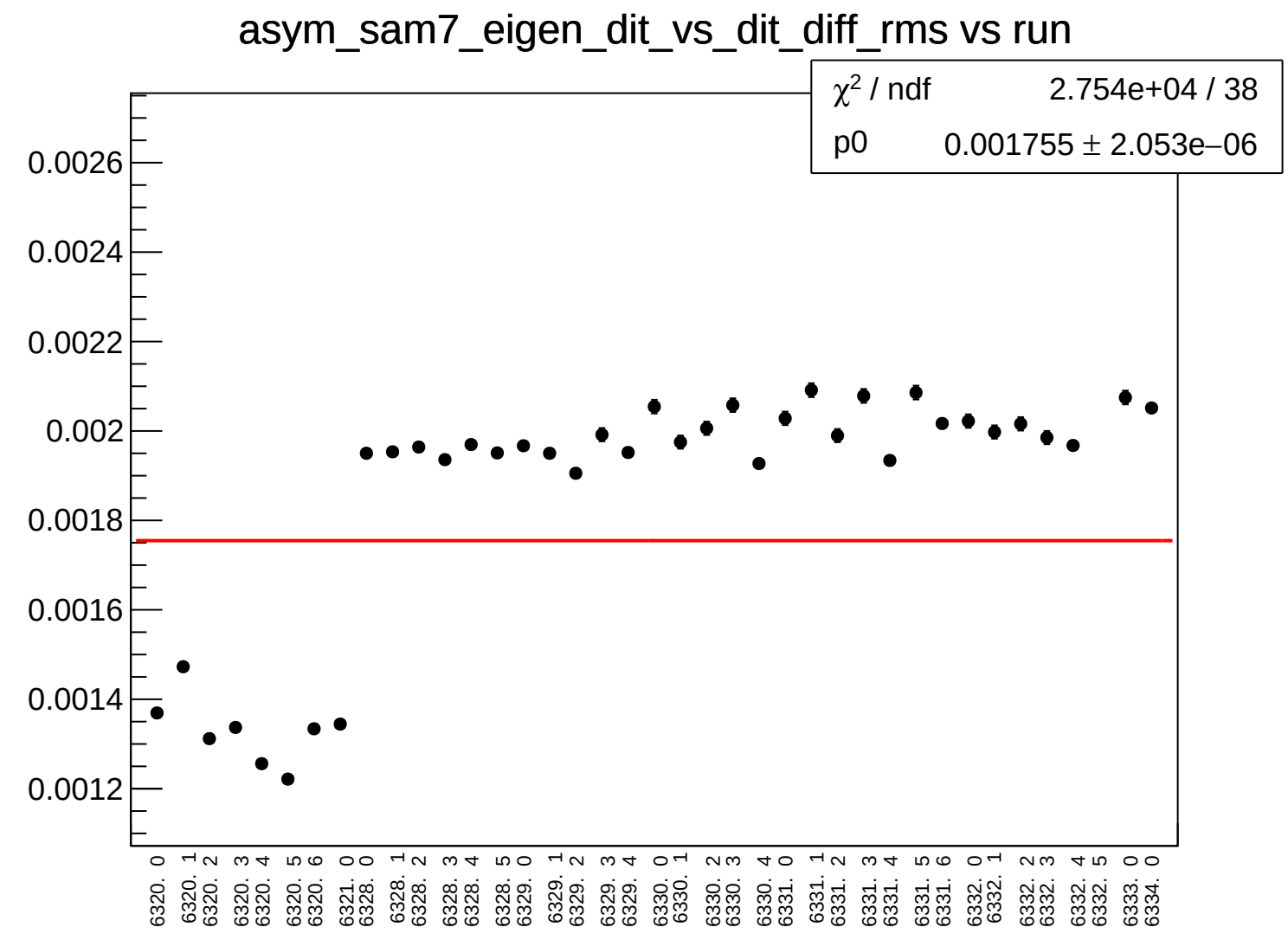

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 38
p0 25.45 ± 0.02985
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

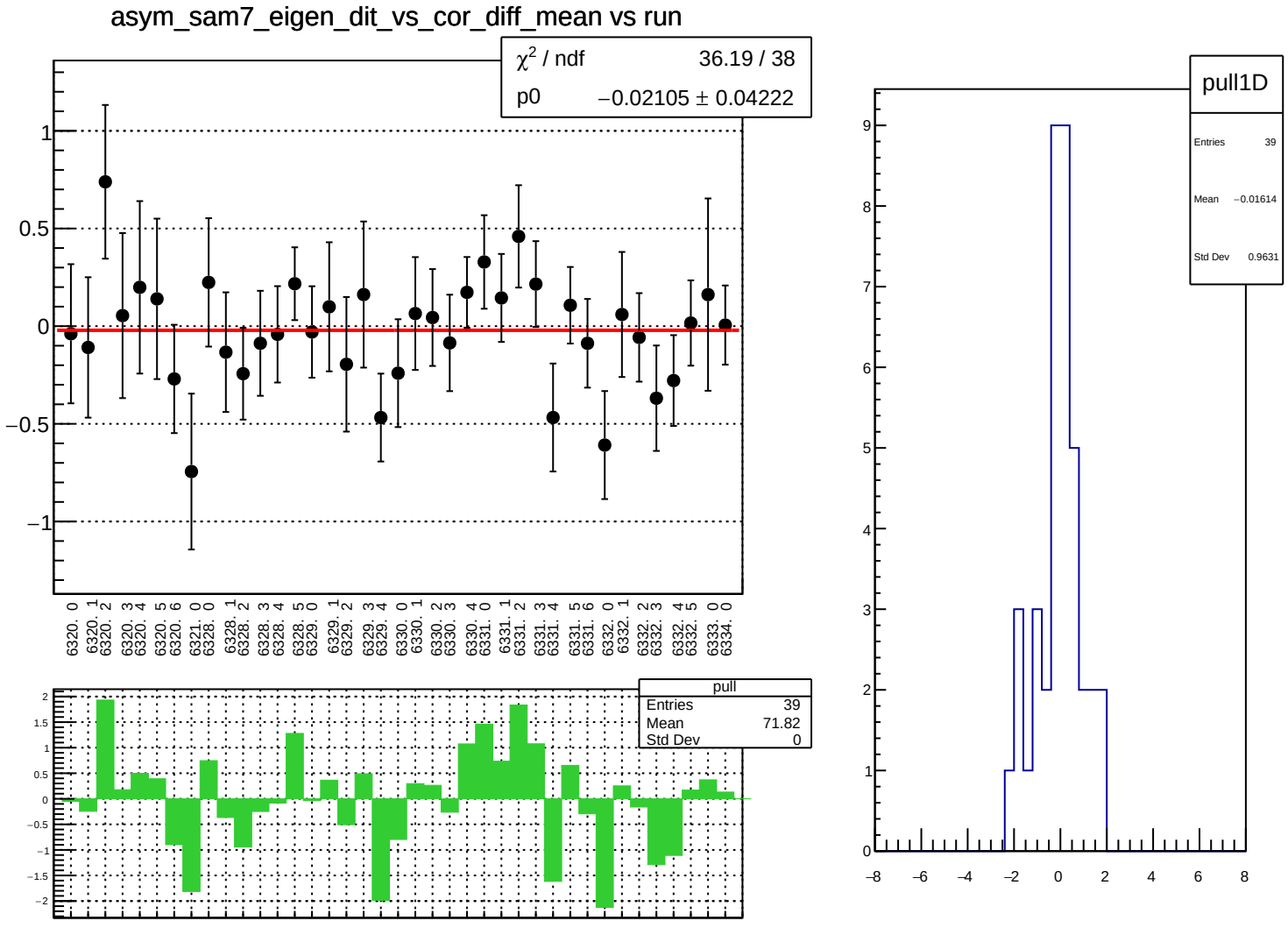

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 −0.02105 ± 0.04222
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 71.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01614
Std Dev 0.9631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

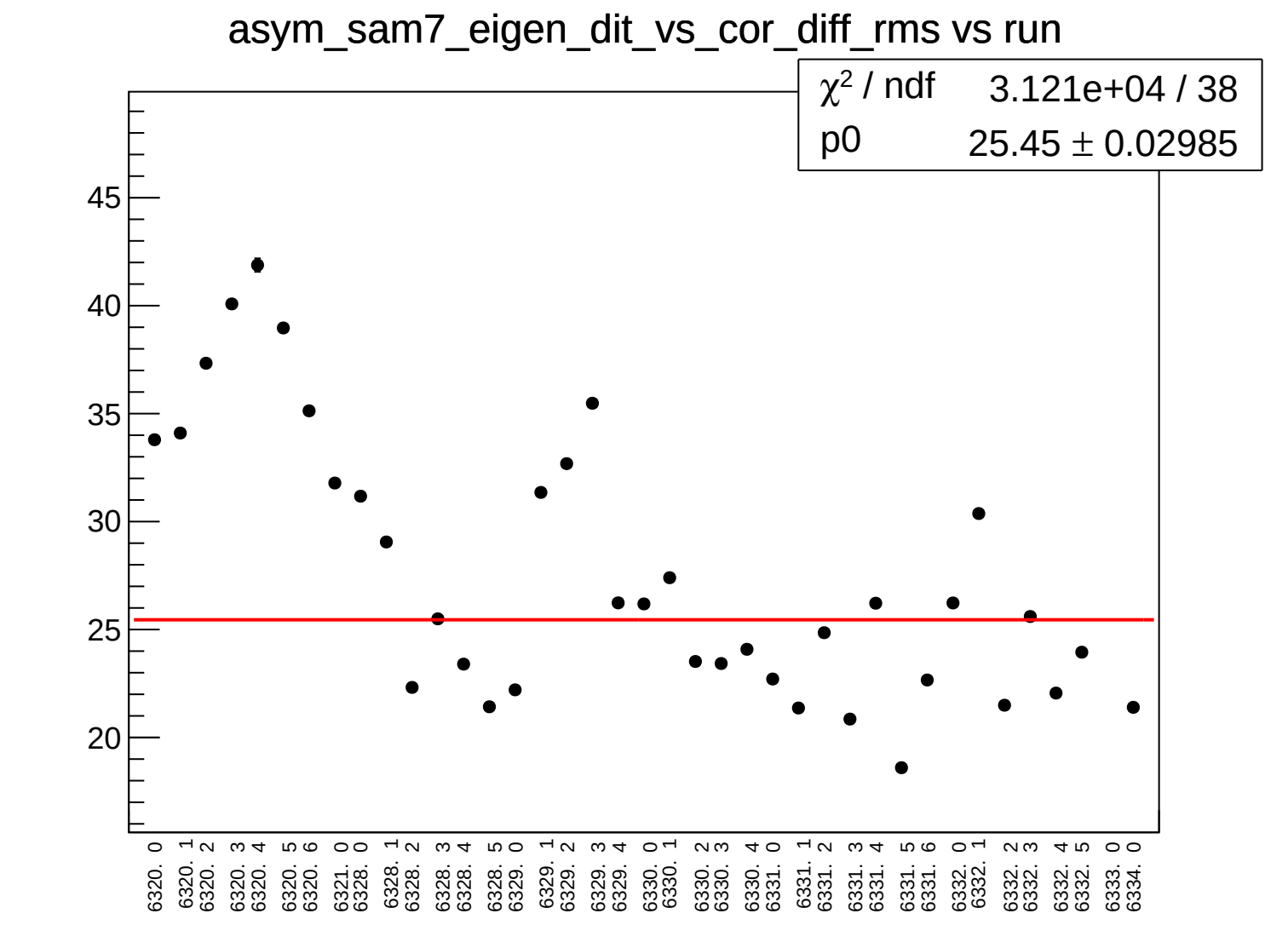

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 38
p0 25.45 ± 0.02985
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

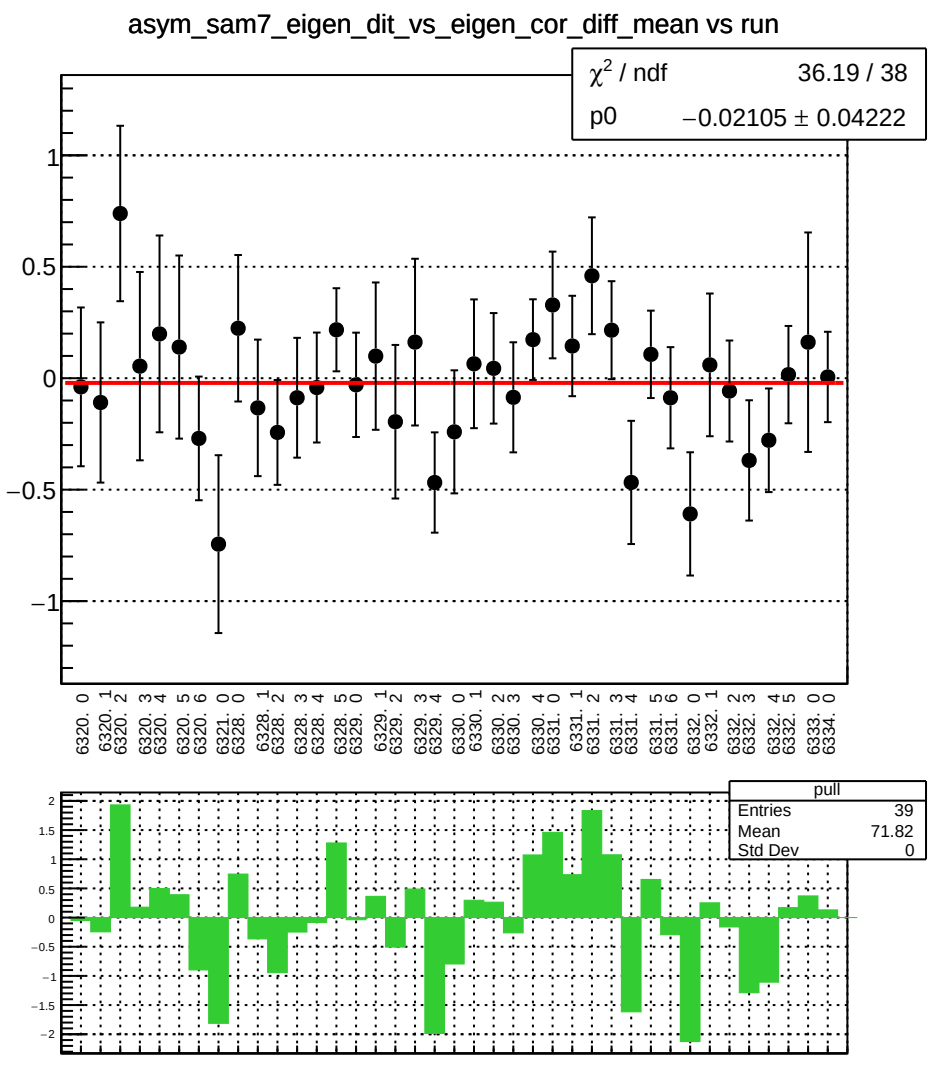

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.96 / 38
p0 2.356e−06 ± 2.903e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

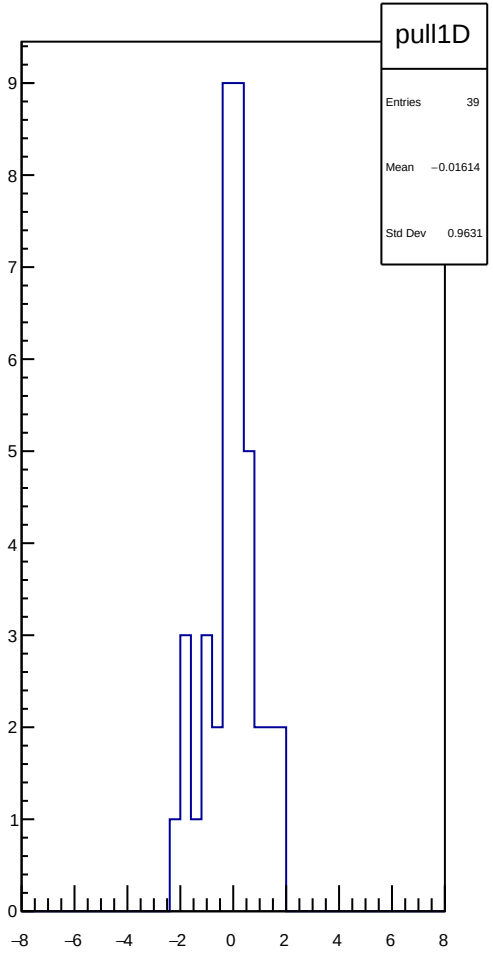

pull1D
Entries 39
Mean −0.01262
Std Dev 0.8616
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

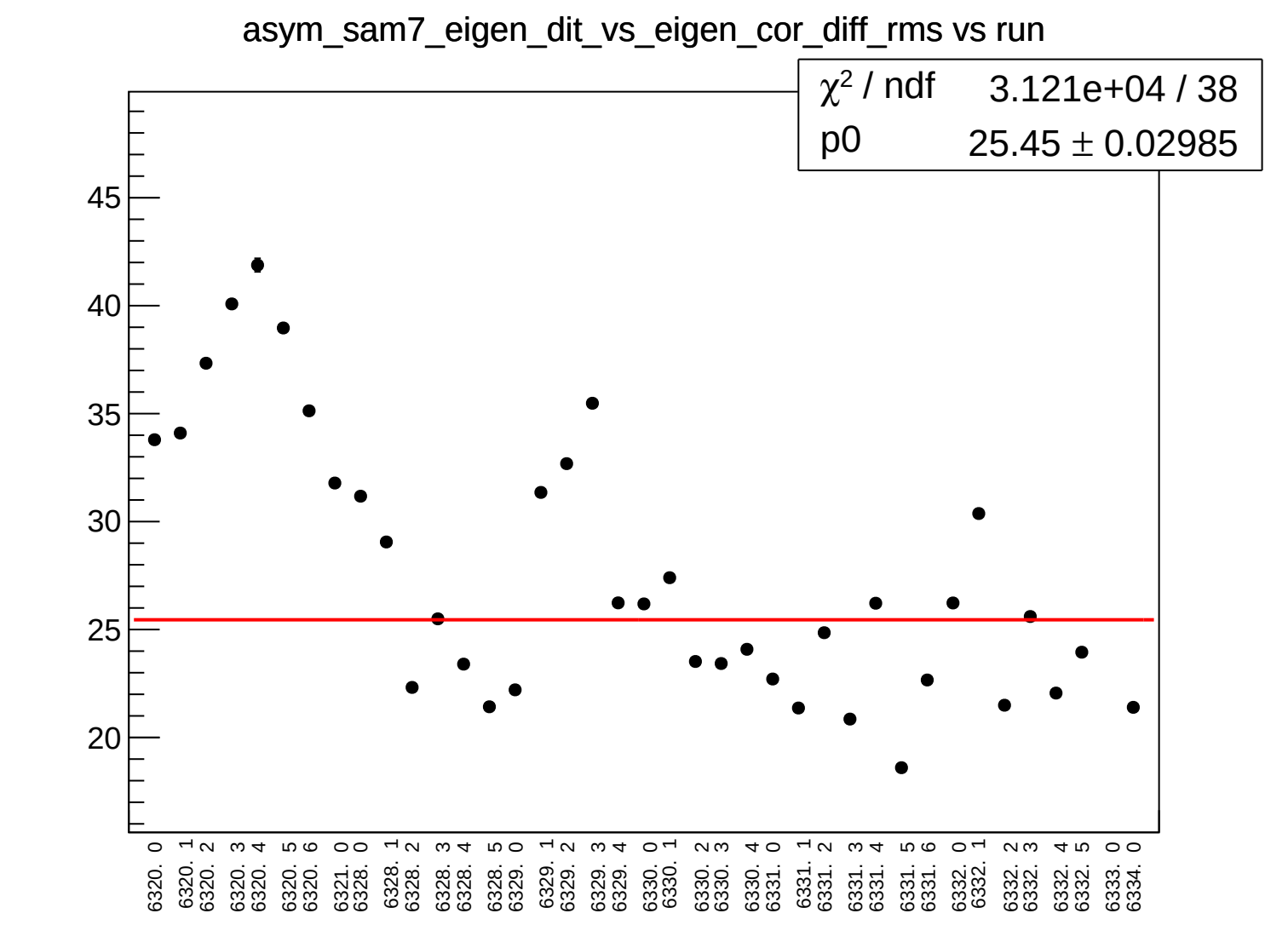

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.754e+04 / 38
p0 0.001755 ± 2.053e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

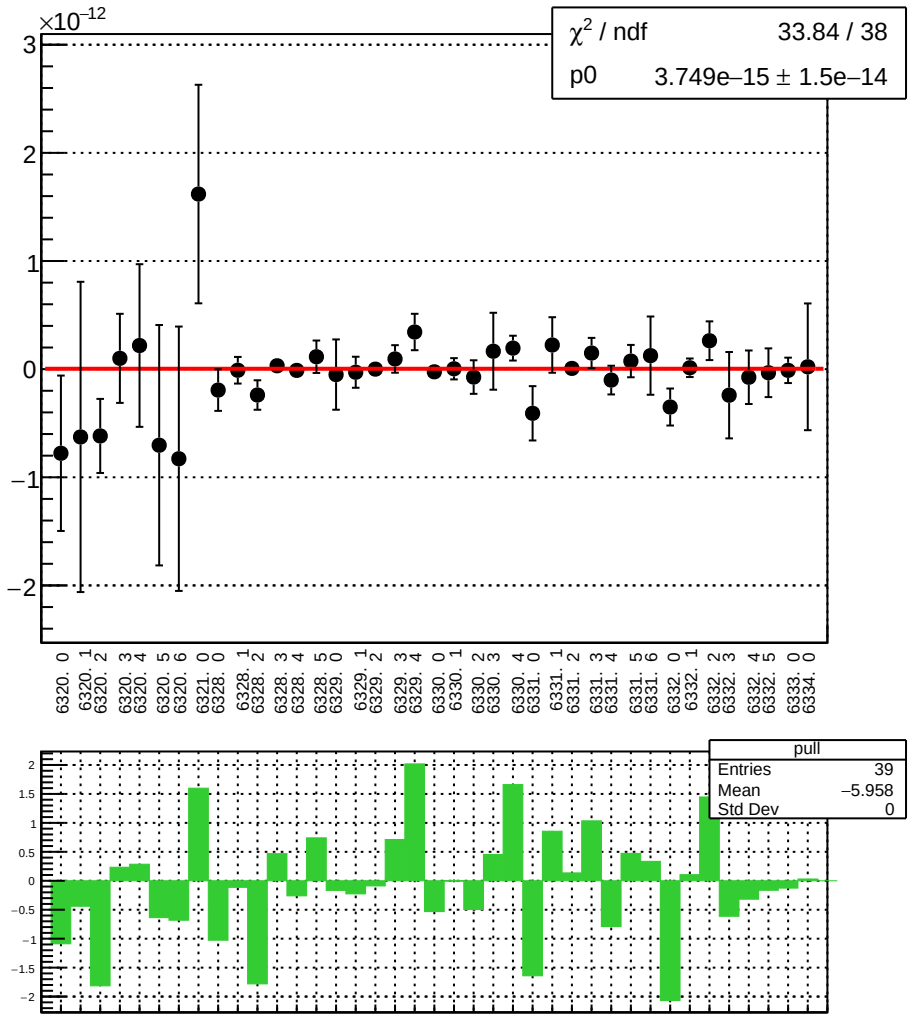

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 −0.02105 ± 0.04222
pull
Entries 39
Mean 71.82
Std Dev 0
pull1D
Entries 39
Mean −0.01614
Std Dev 0.9631

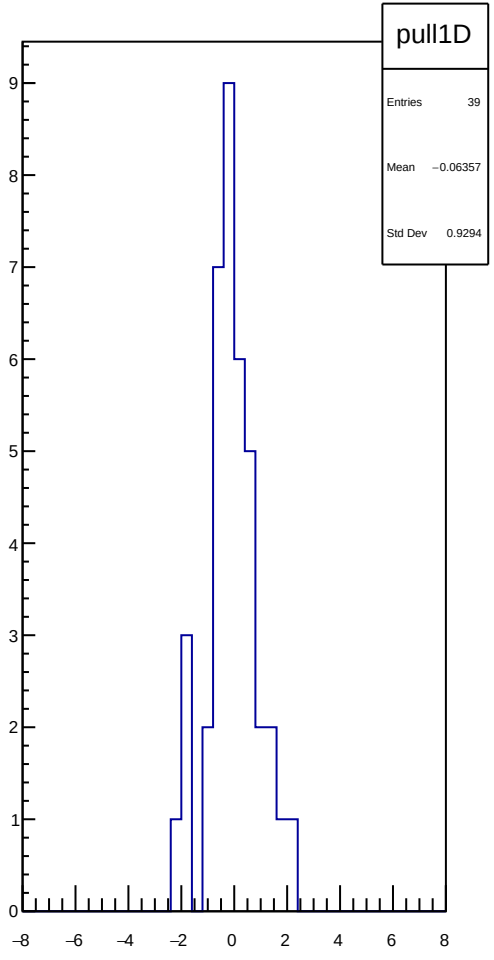

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 38
p0 25.45 ± 0.02985
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

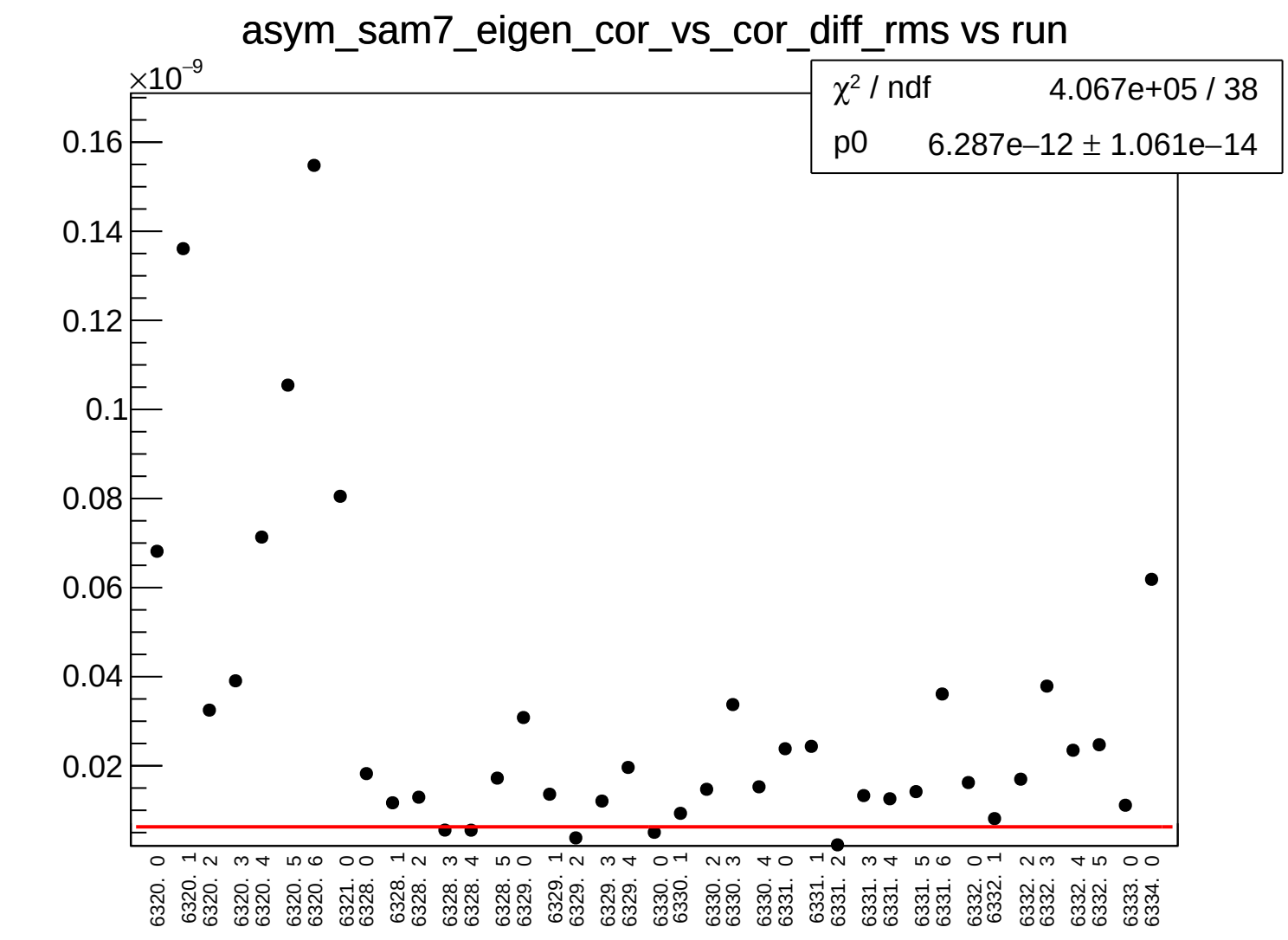

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.19 / 38
p0 −0.02105 ± 0.04222
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 71.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

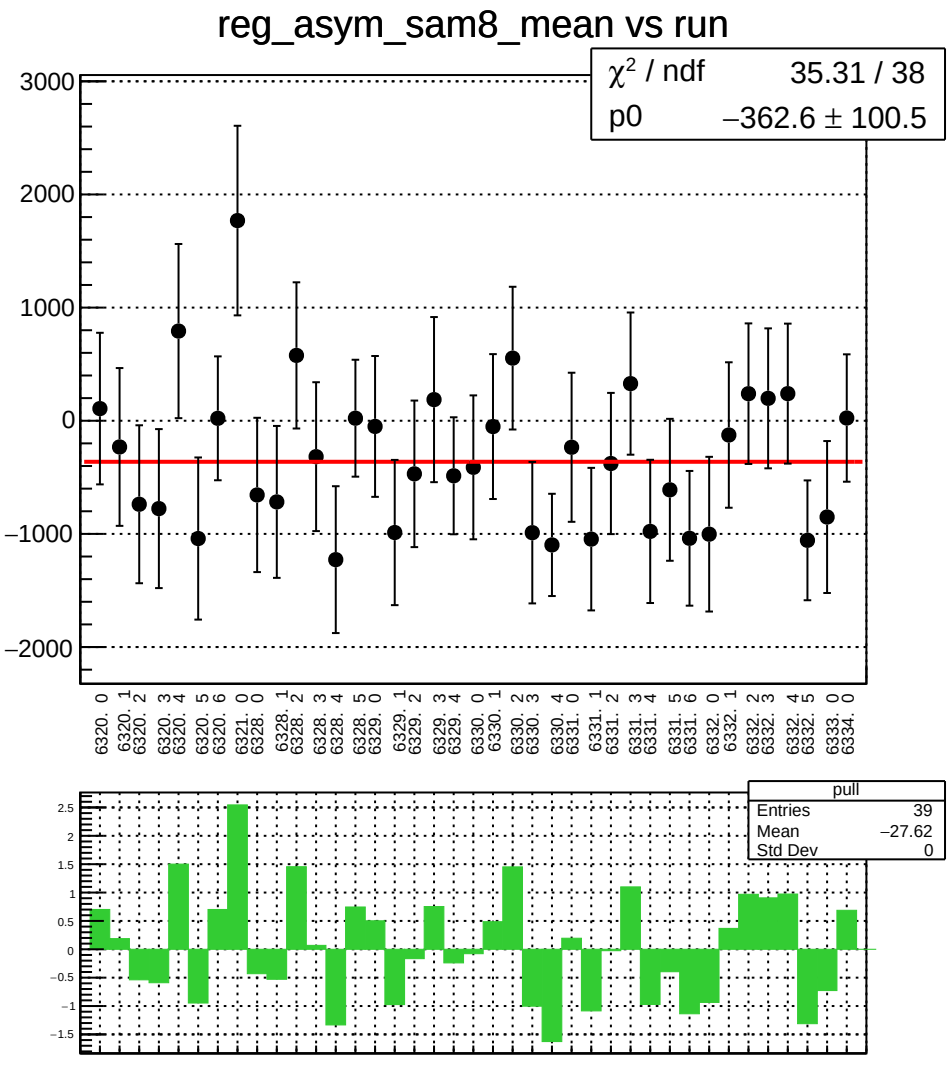

pull1D
Entries 39
Mean −0.01614
Std Dev 0.9631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

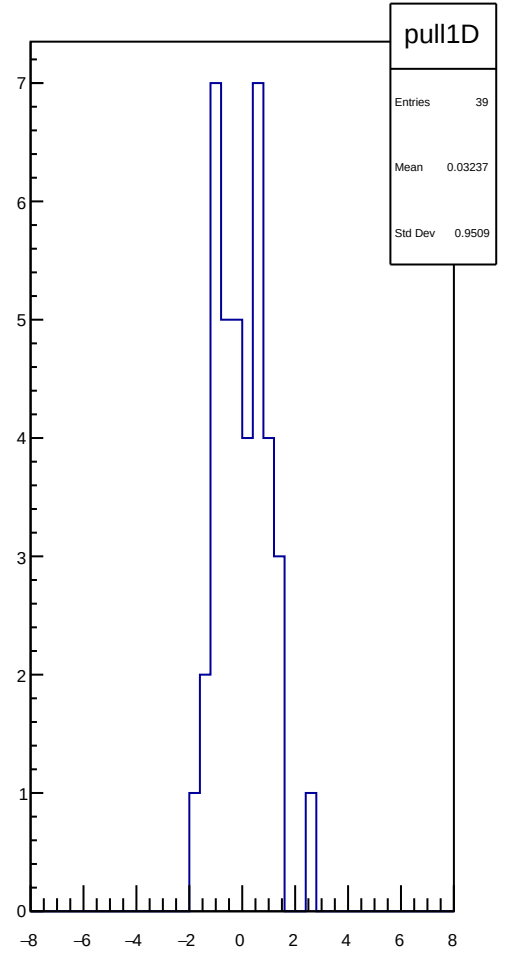

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 38
p0 25.45 ± 0.02985
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

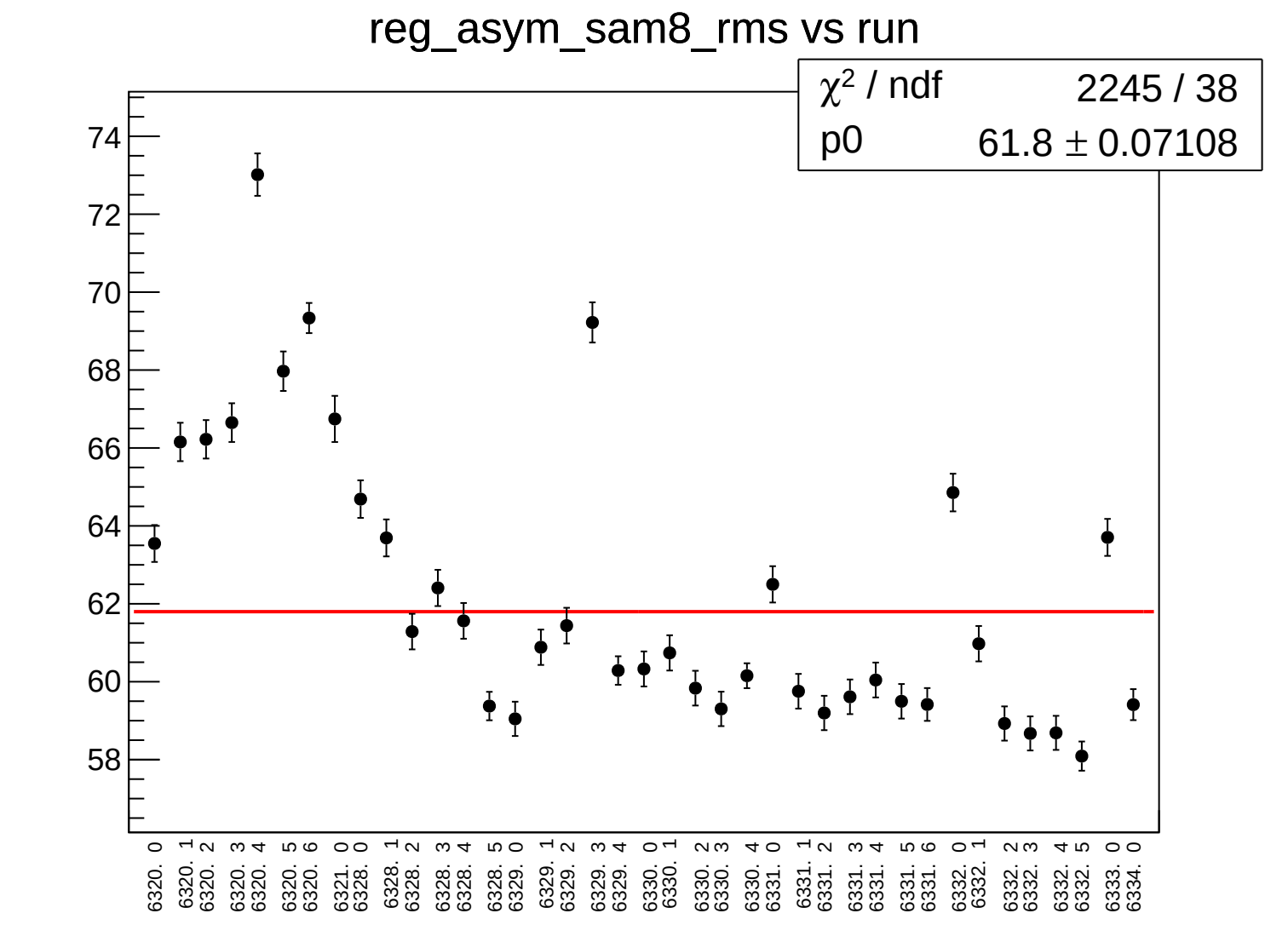

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.84 / 38
p0 3.749e−15 ± 1.5e−14
pull
Entries 39
Mean −5.958
Std Dev 0

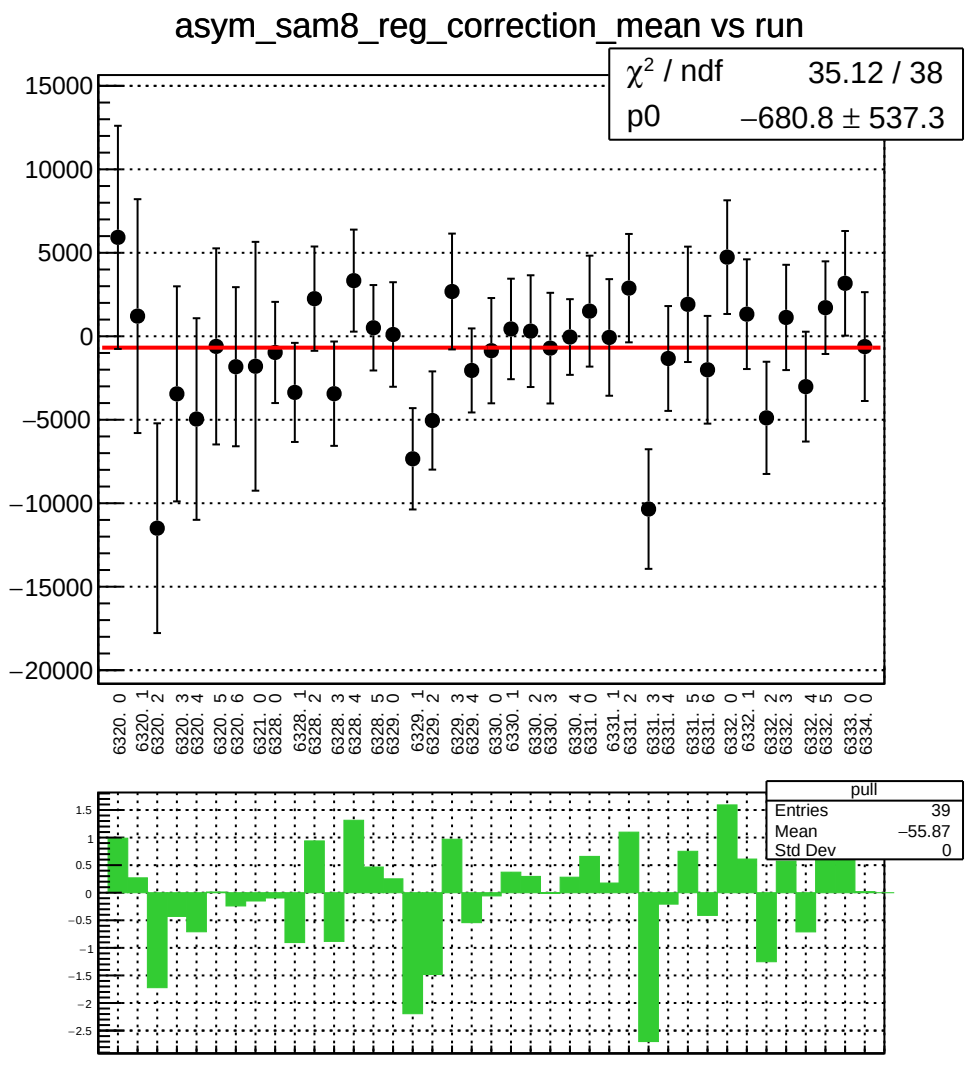

pull1D
Entries 39
Mean −0.06357
Std Dev 0.9294

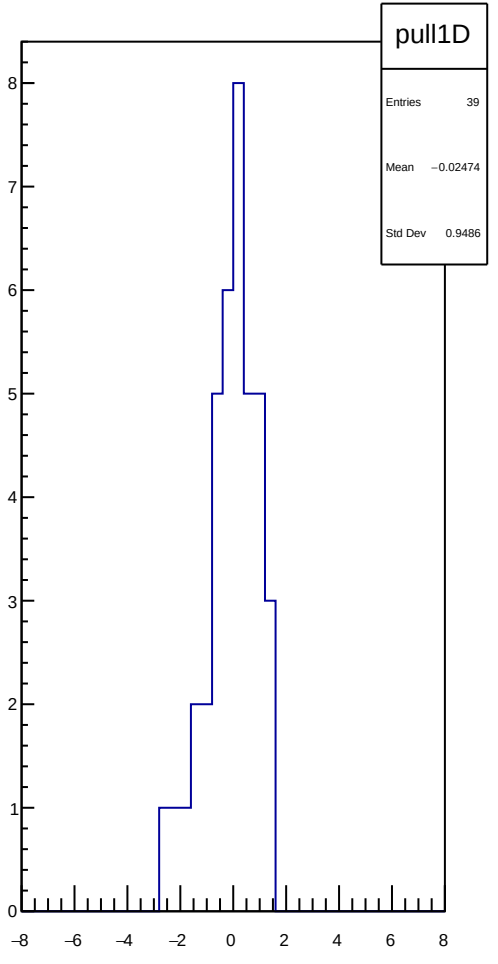

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.067e+05 / 38
p0 6.287e−12 ± 1.061e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

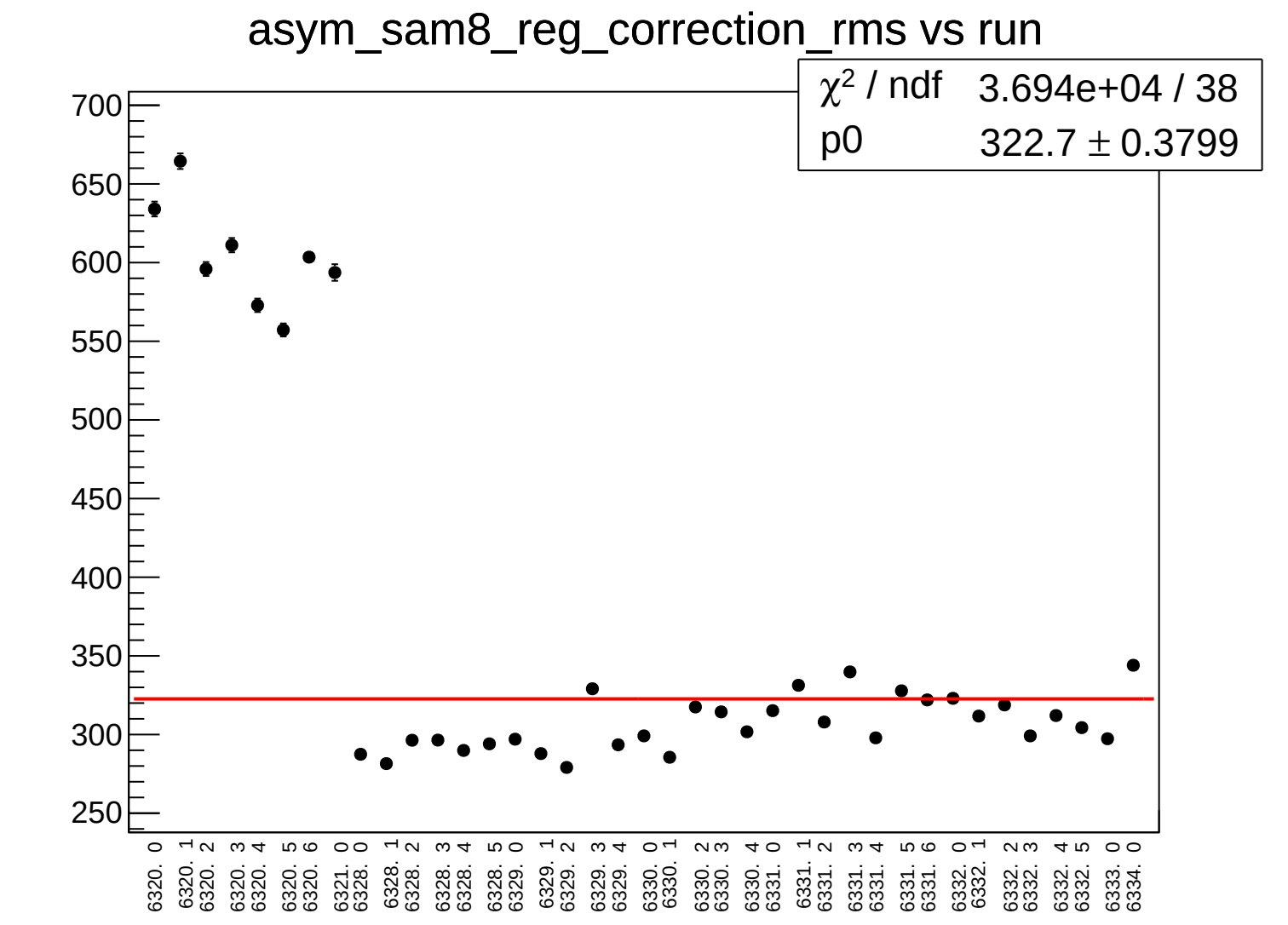

reg_asym_sam8_mean vs run
χ² / ndf 35.31 / 38
p0 −362.6 ± 100.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

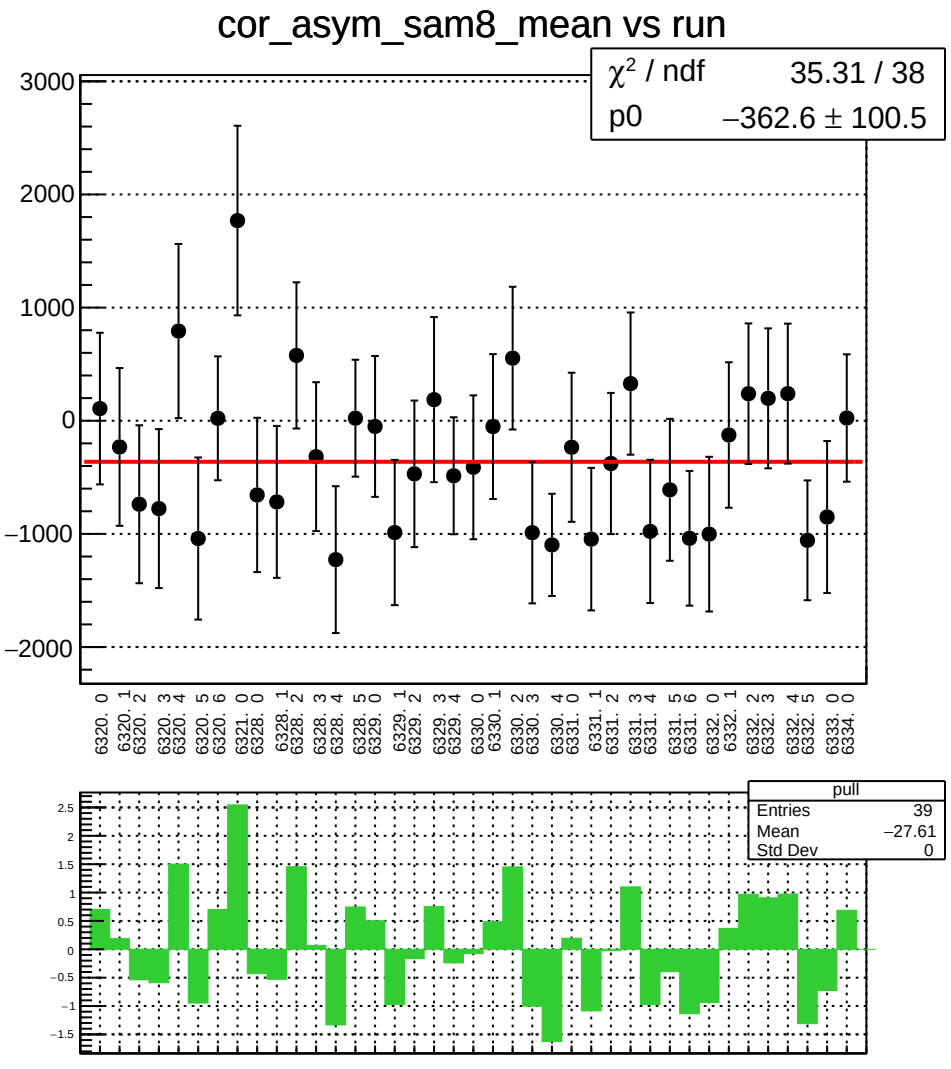

pull1D
Entries 39
Mean 0.03237
Std Dev 0.9509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

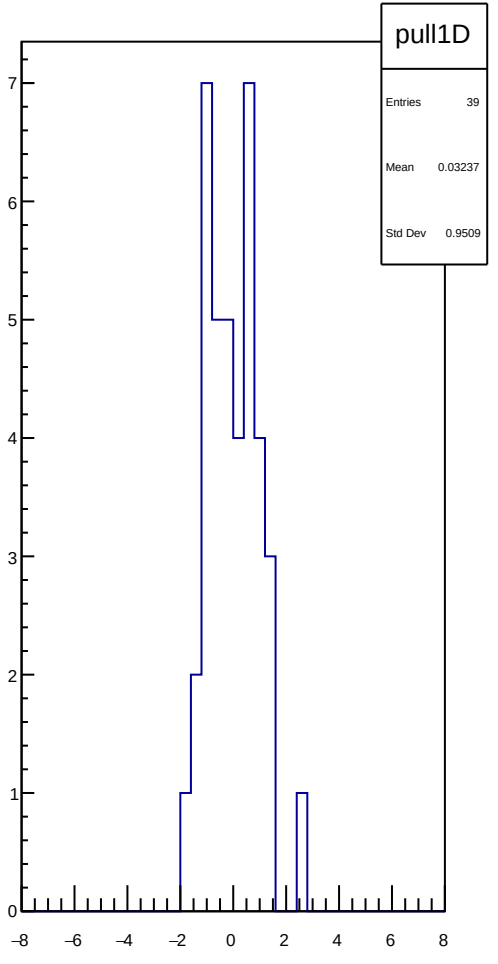

reg_asym_sam8_rms vs run
χ² / ndf 2245 / 38
p0 61.8 ± 0.07108
74
72
70
68
66
64
62
60
58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

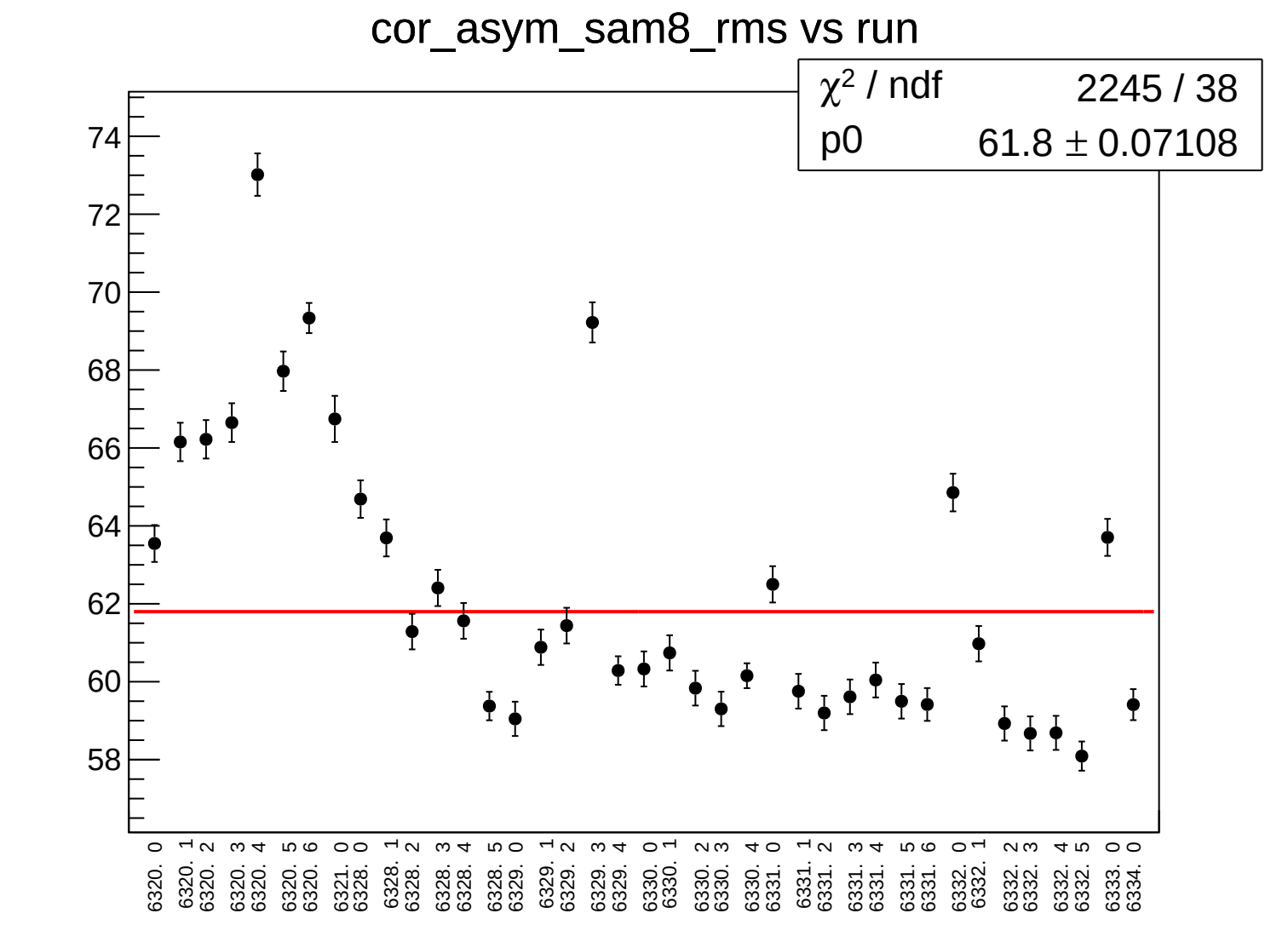

asym_sam8_reg_correction_mean vs run
χ² / ndf 35.12 / 38
p0 −680.8 ± 537.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

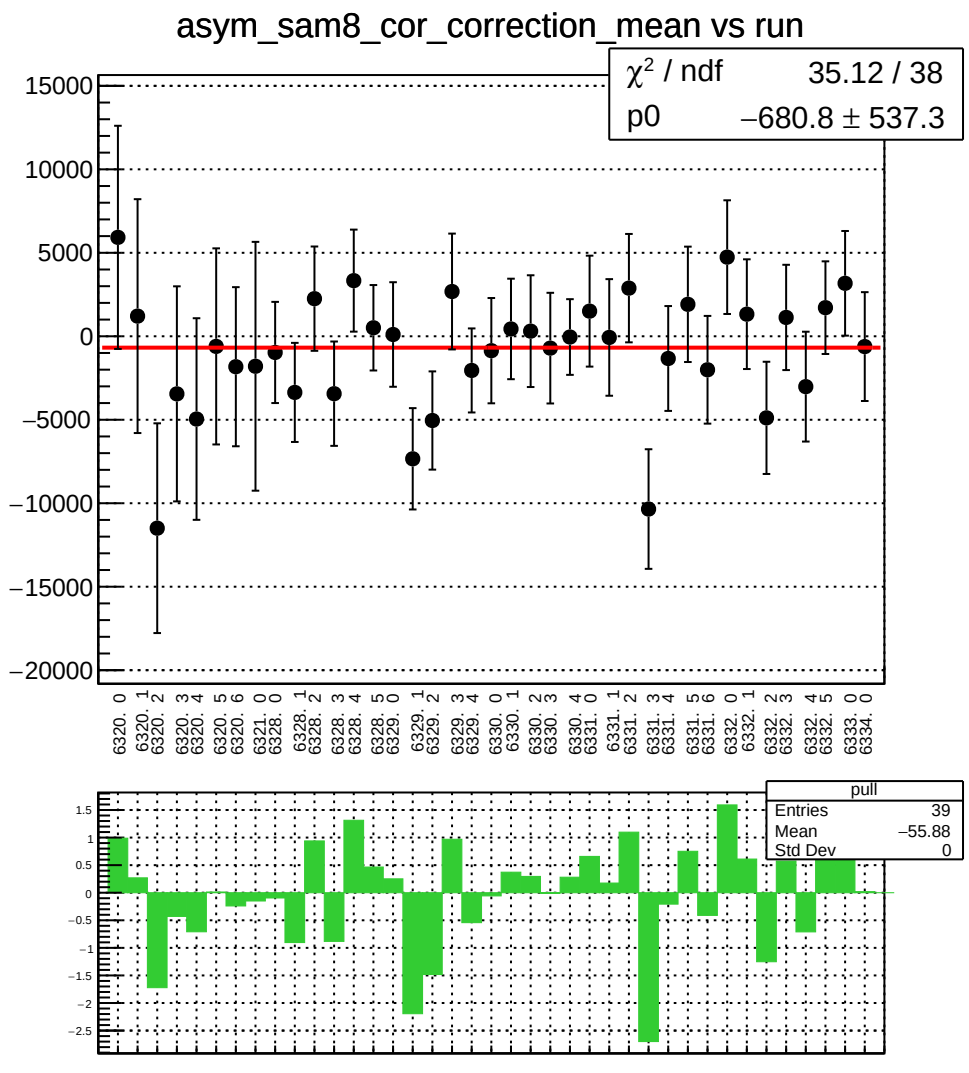

pull1D
Entries 39
Mean −0.02474
Std Dev 0.9486
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

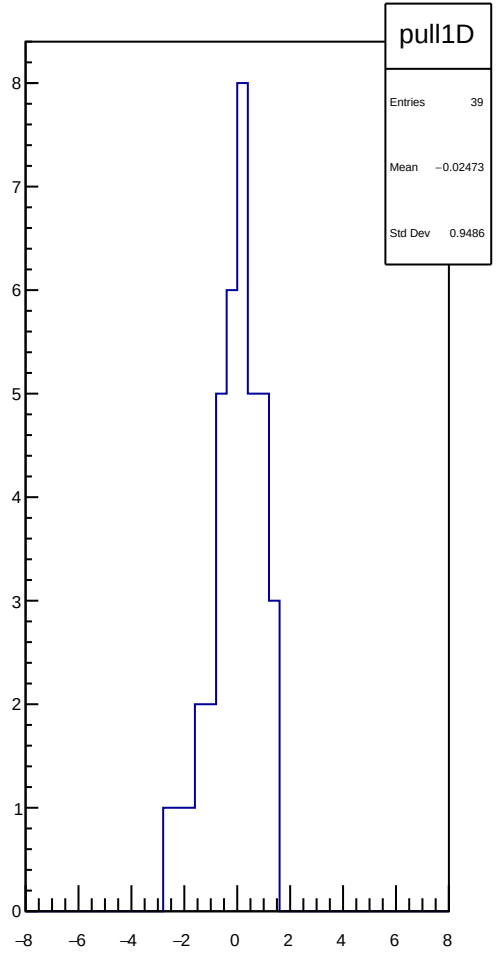

asym_sam8_reg_correction_rms vs run
χ² / ndf 3.694e+04 / 38
p0 322.7 ± 0.3799
700
650
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

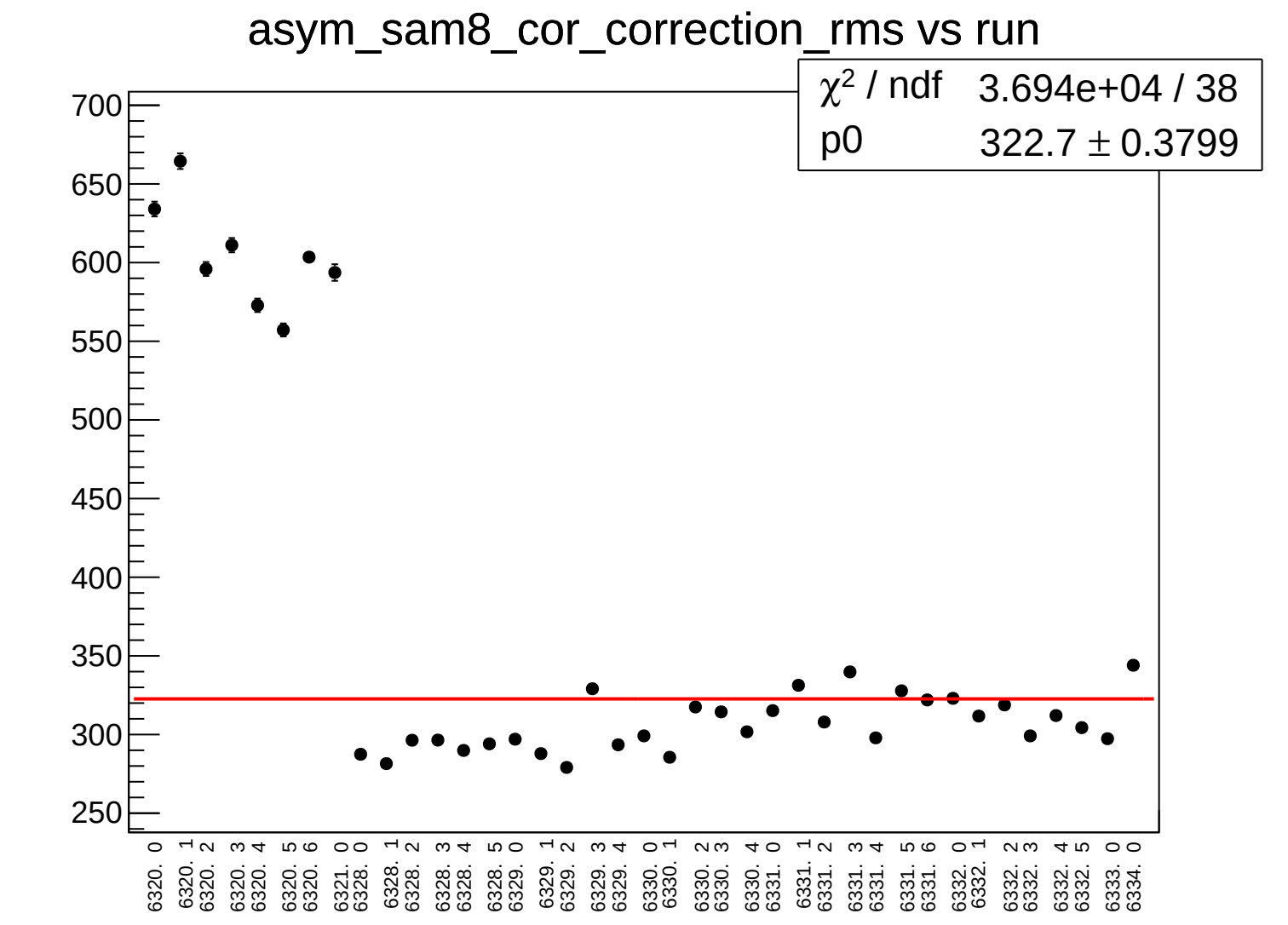

cor_asym_sam8_mean vs run
χ² / ndf 35.31 / 38
p0 −362.6 ± 100.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

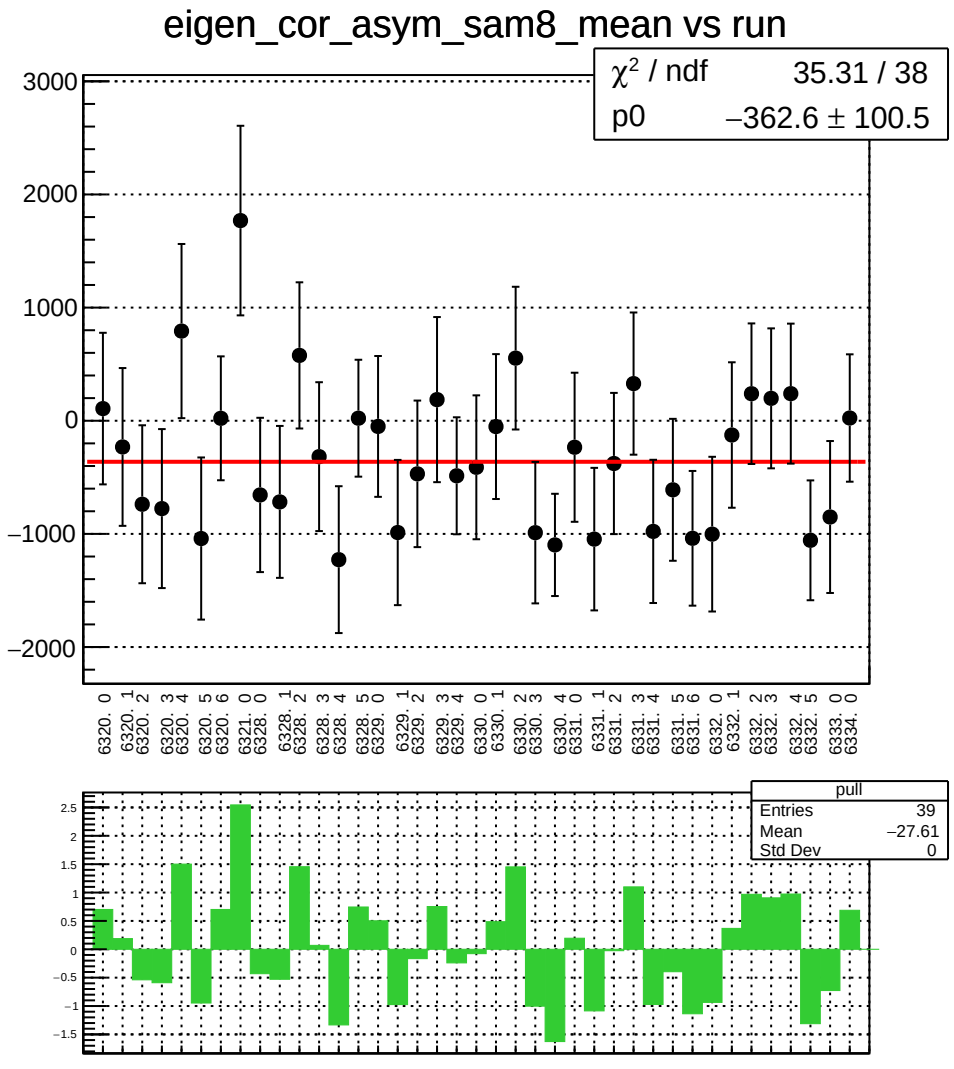

pull1D
Entries 39
Mean 0.03237
Std Dev 0.9509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

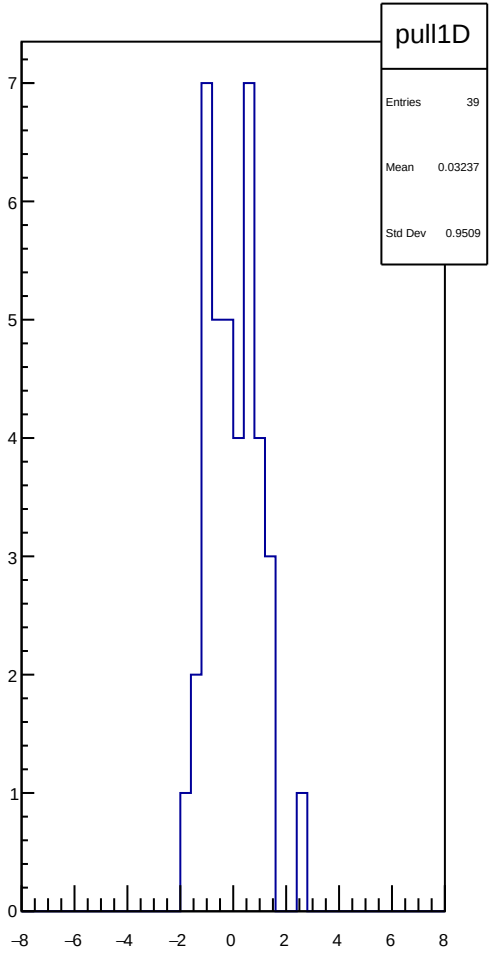

cor_asym_sam8_rms vs run
χ² / ndf 2245 / 38
p0 61.8 ± 0.07108
74
72
70
68
66
64
62
60
58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

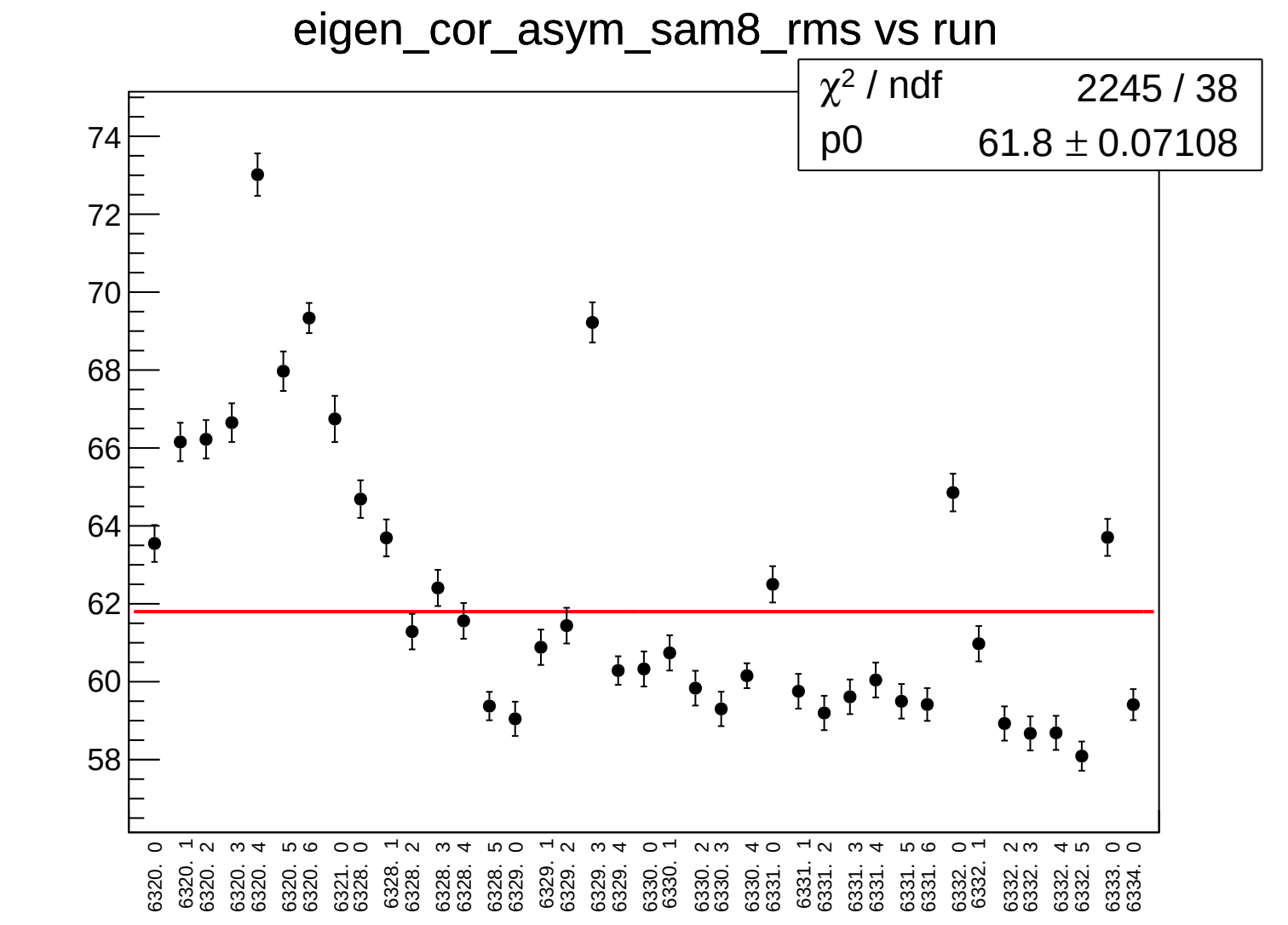

asym_sam8_cor_correction_mean vs run
χ² / ndf 35.12 / 38
p0 −680.8 ± 537.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

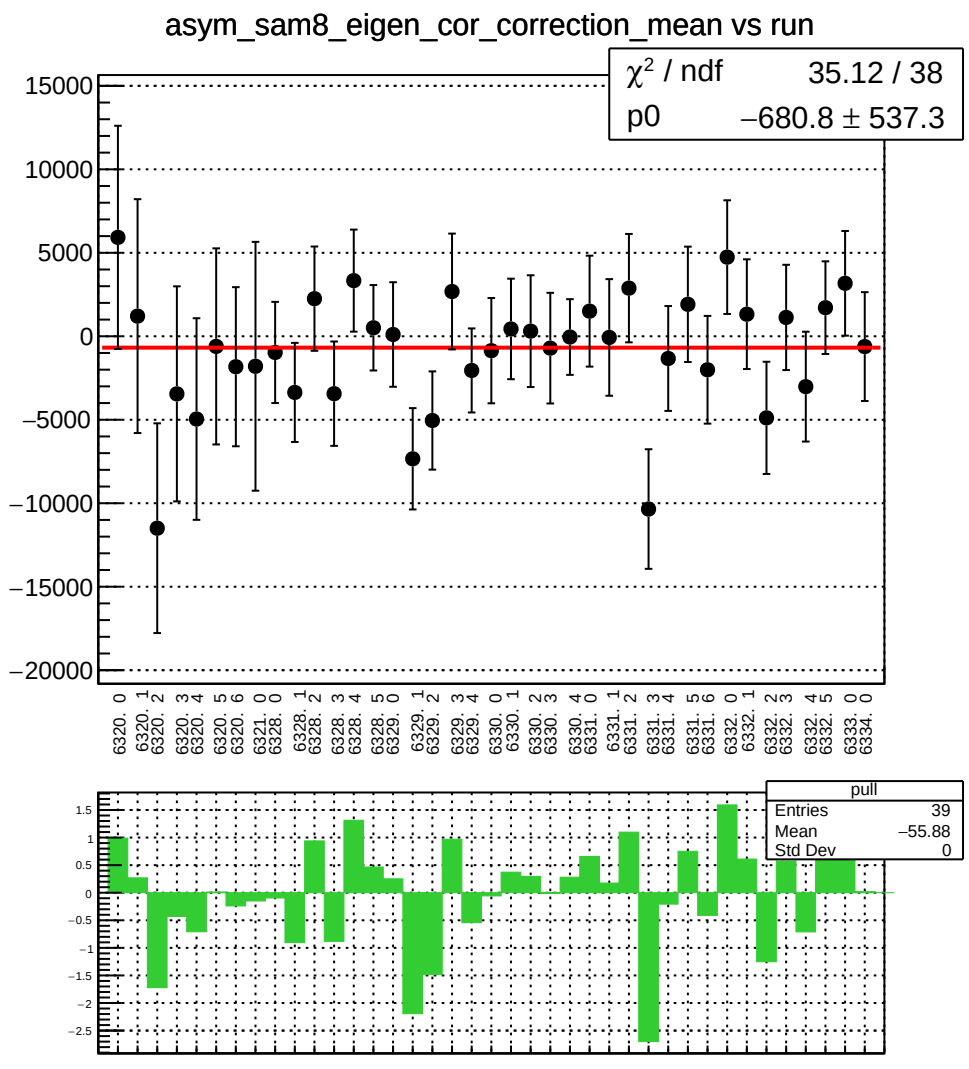

pull1D
Entries 39
Mean −0.02473
Std Dev 0.9486
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

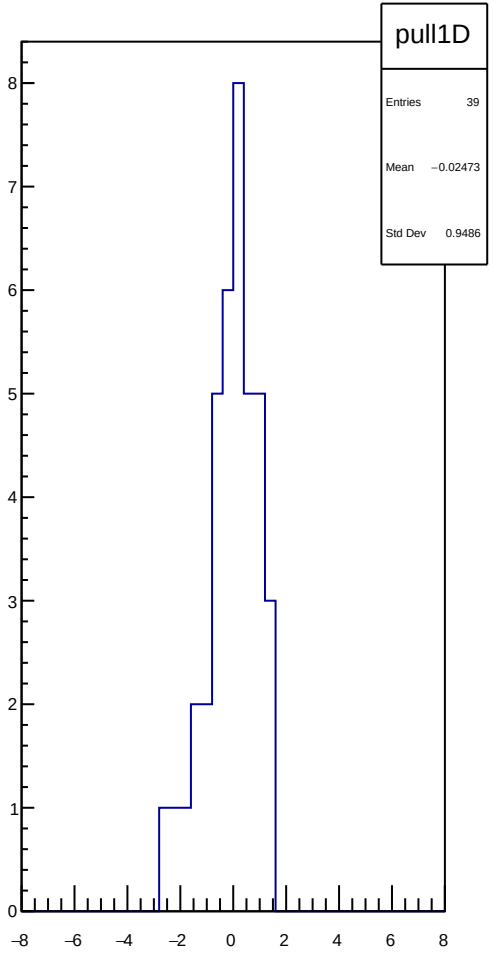

asym_sam8_cor_correction_rms vs run
χ² / ndf 3.694e+04 / 38
p0 322.7 ± 0.3799
700
650
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

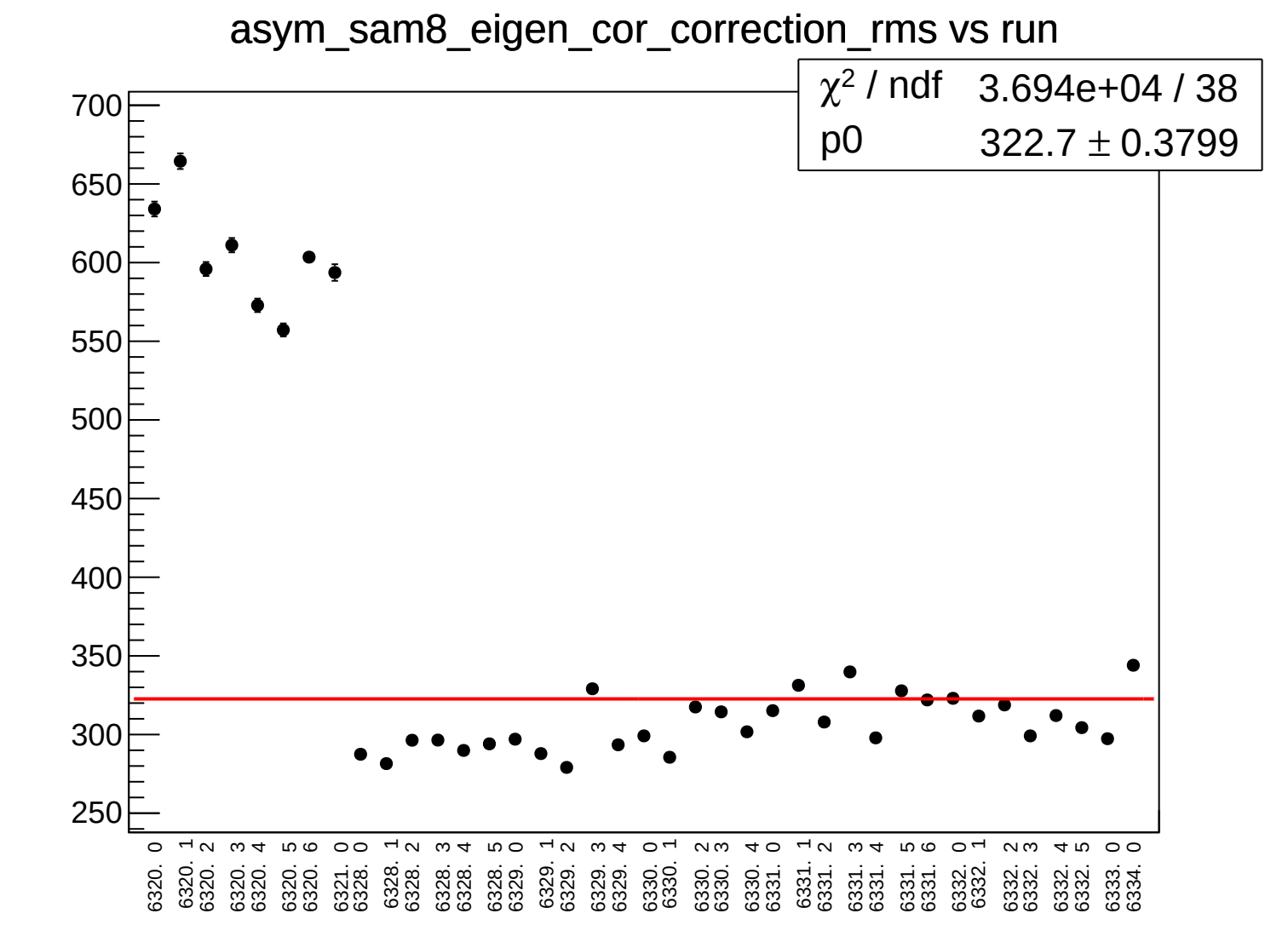

eigen_cor_asym_sam8_mean vs run
χ² / ndf 35.31 / 38
p0 −362.6 ± 100.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

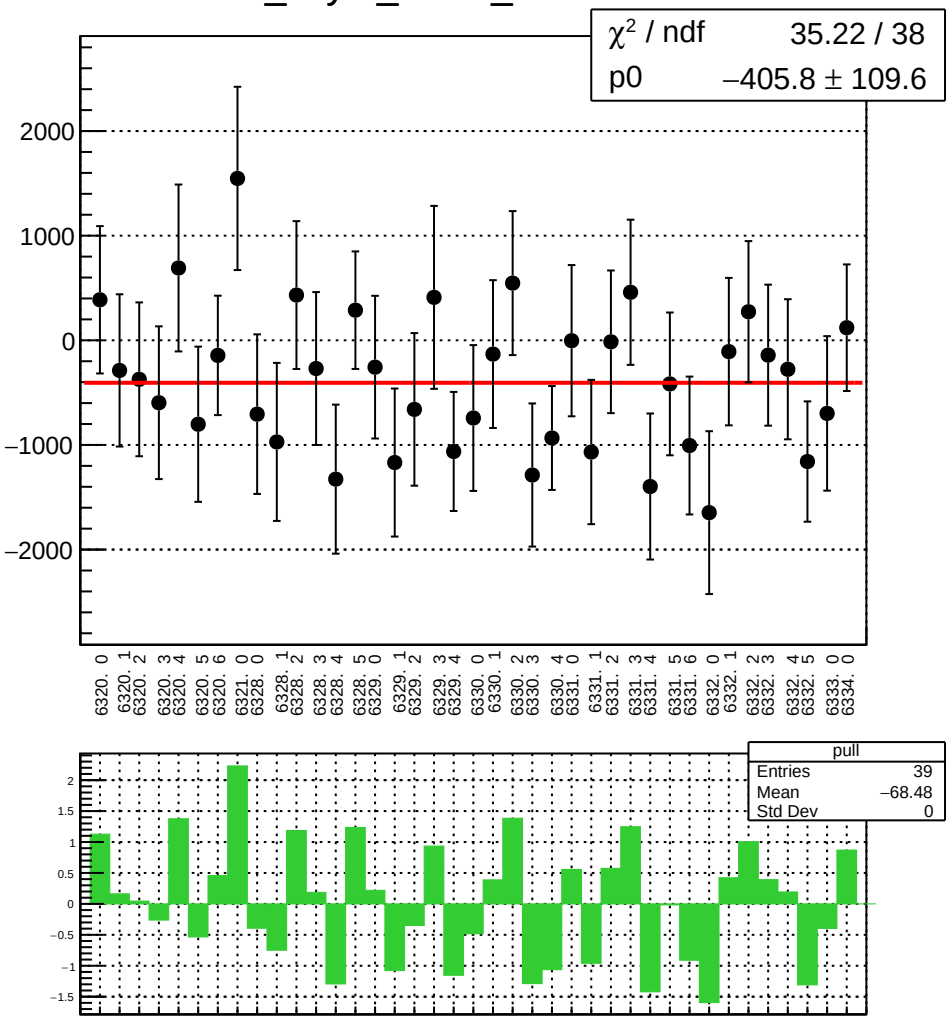

pull1D
Entries 39
Mean 0.03237
Std Dev 0.9509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

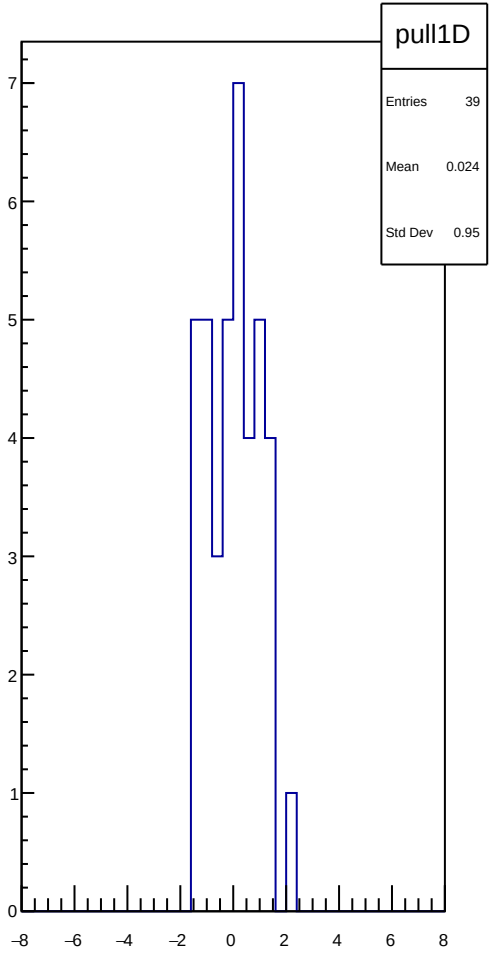

eigen_cor_asym_sam8_rms vs run
χ² / ndf 2245 / 38
p0 61.8 ± 0.07108
74
72
70
68
66
64
62
60
58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

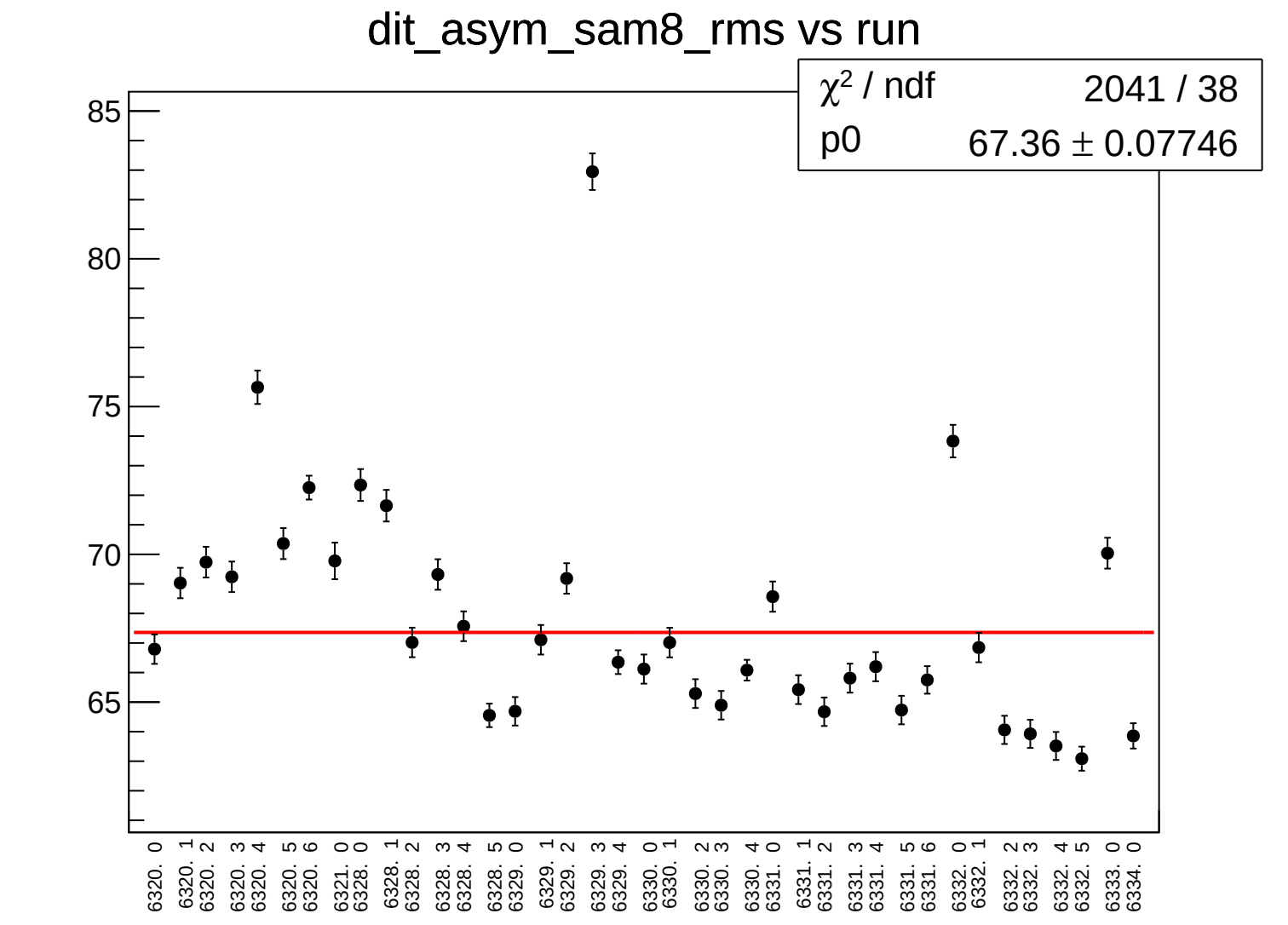

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 35.12 / 38
p0 −680.8 ± 537.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

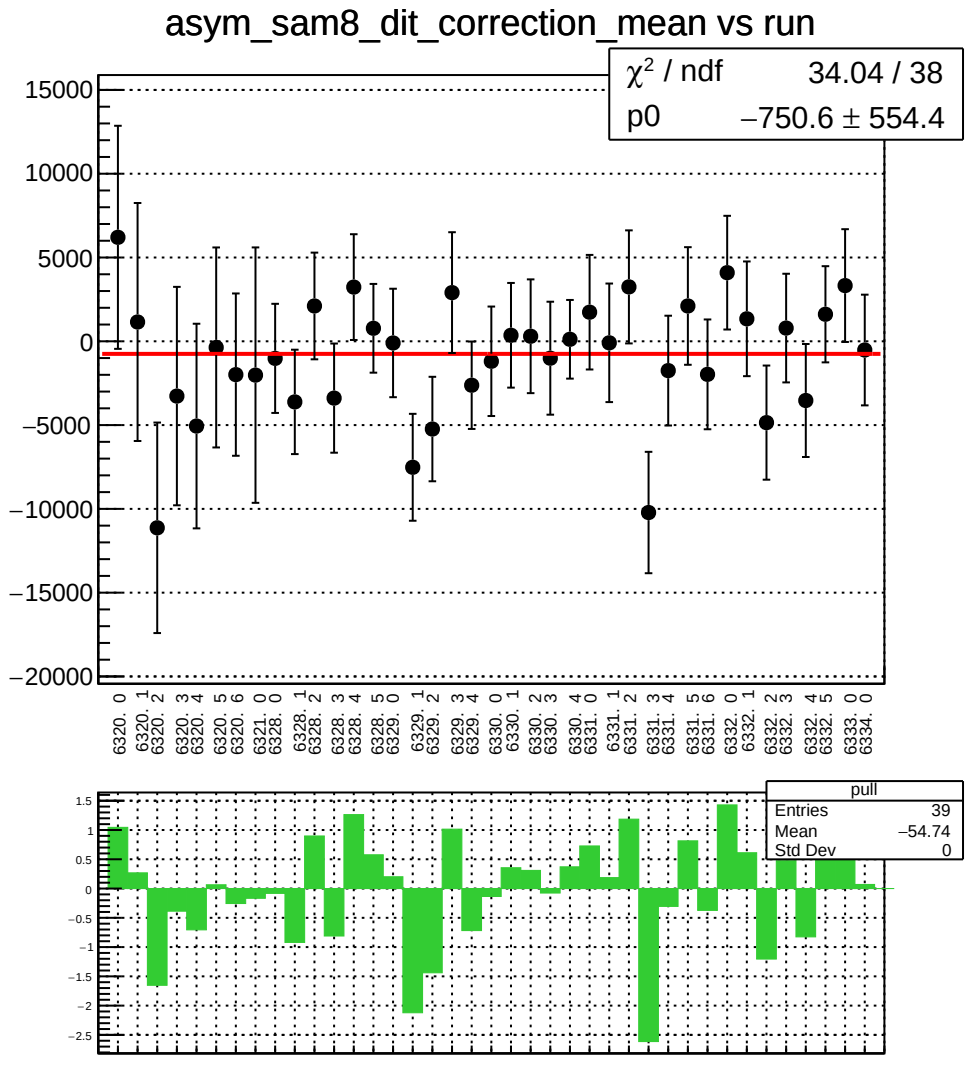

pull1D
Entries 39
Mean −0.02473
Std Dev 0.9486
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

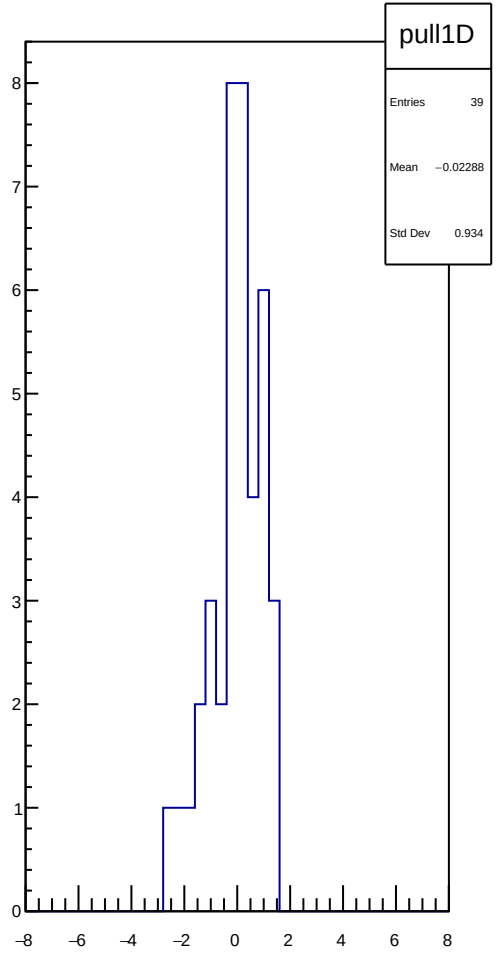

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3.694e+04 / 38
p0 322.7 ± 0.3799
700
650
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

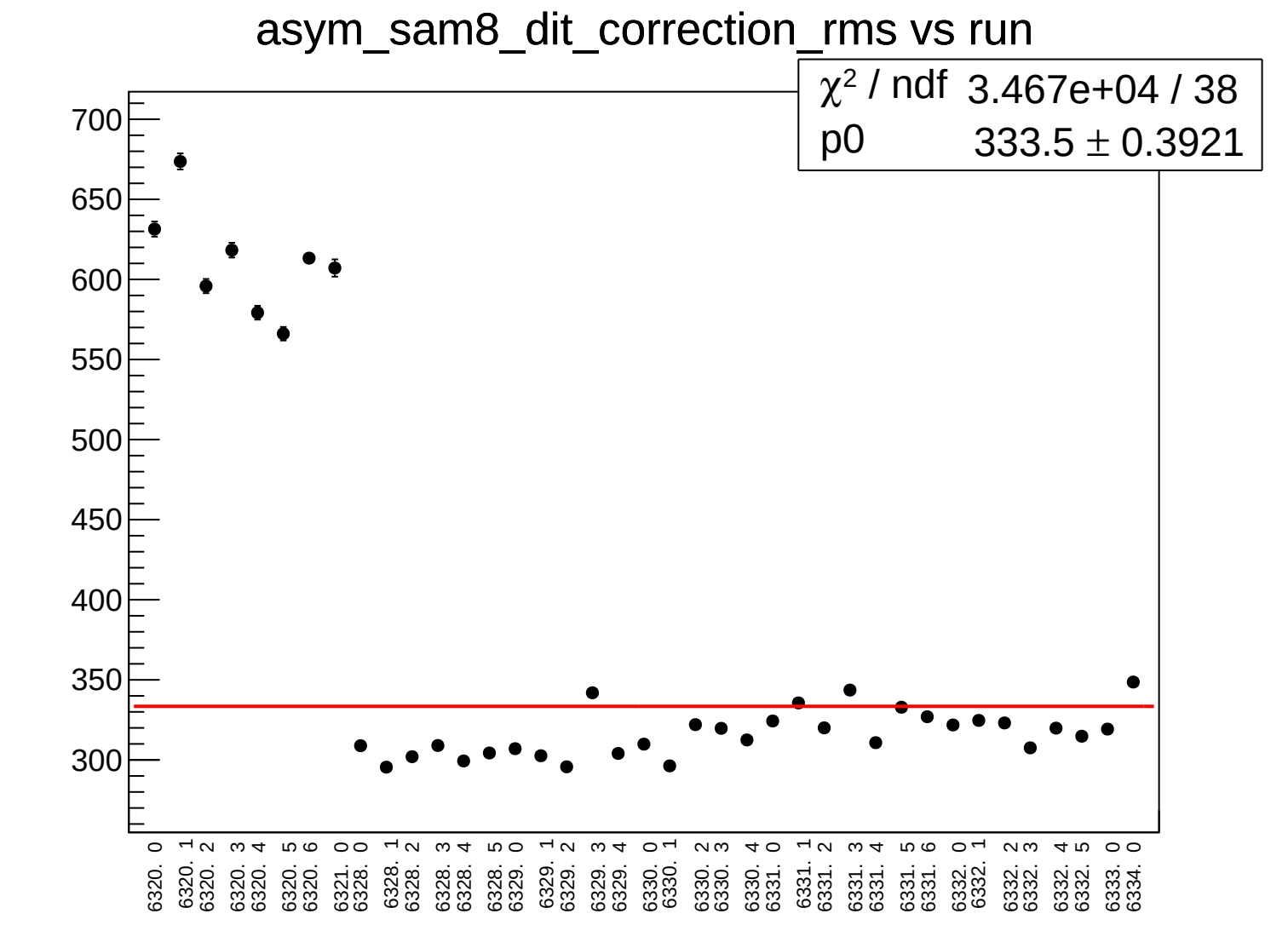

dit_asym_sam8_mean vs run
χ² / ndf 35.22 / 38
p0 −405.8 ± 109.6
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −68.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

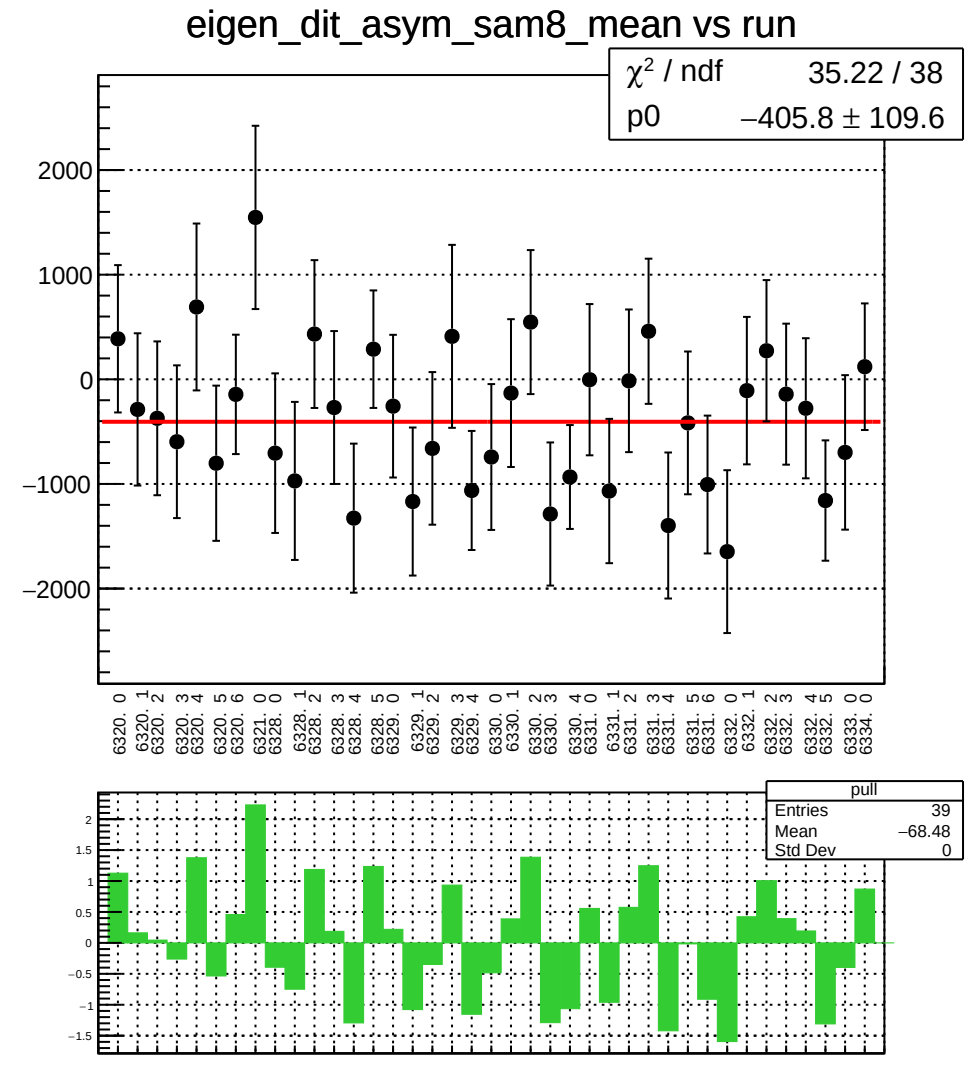

pull1D
Entries 39
Mean 0.024
Std Dev 0.95
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

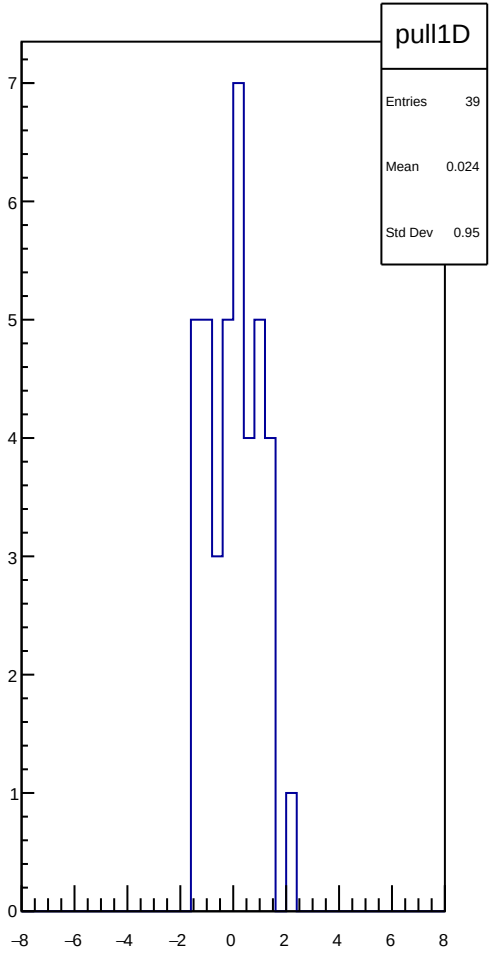

dit_asym_sam8_rms vs run
χ² / ndf 2041 / 38
p0 67.36 ± 0.07746
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

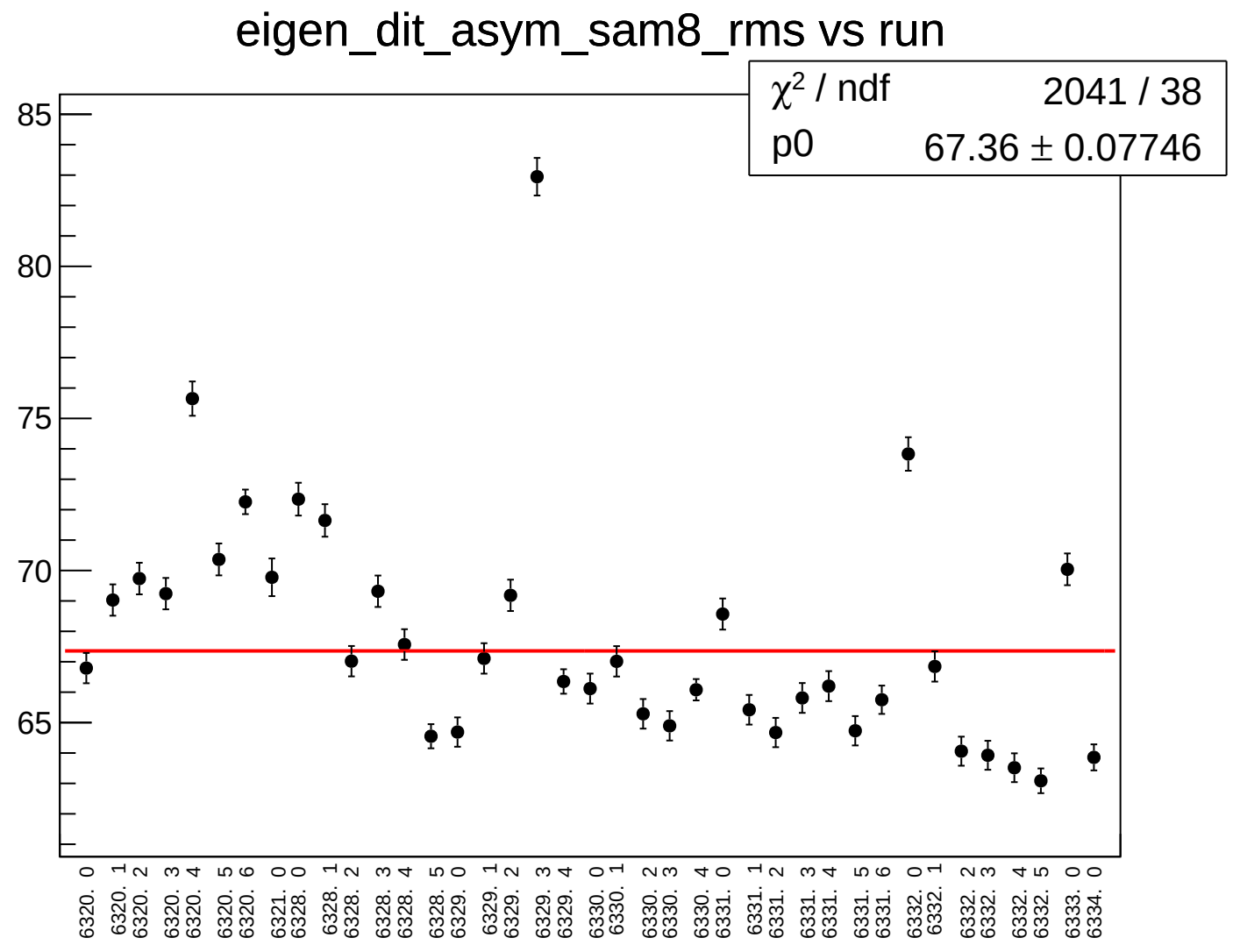

asym_sam8_dit_correction_mean vs run
χ² / ndf 34.04 / 38
p0 −750.6 ± 554.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −54.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

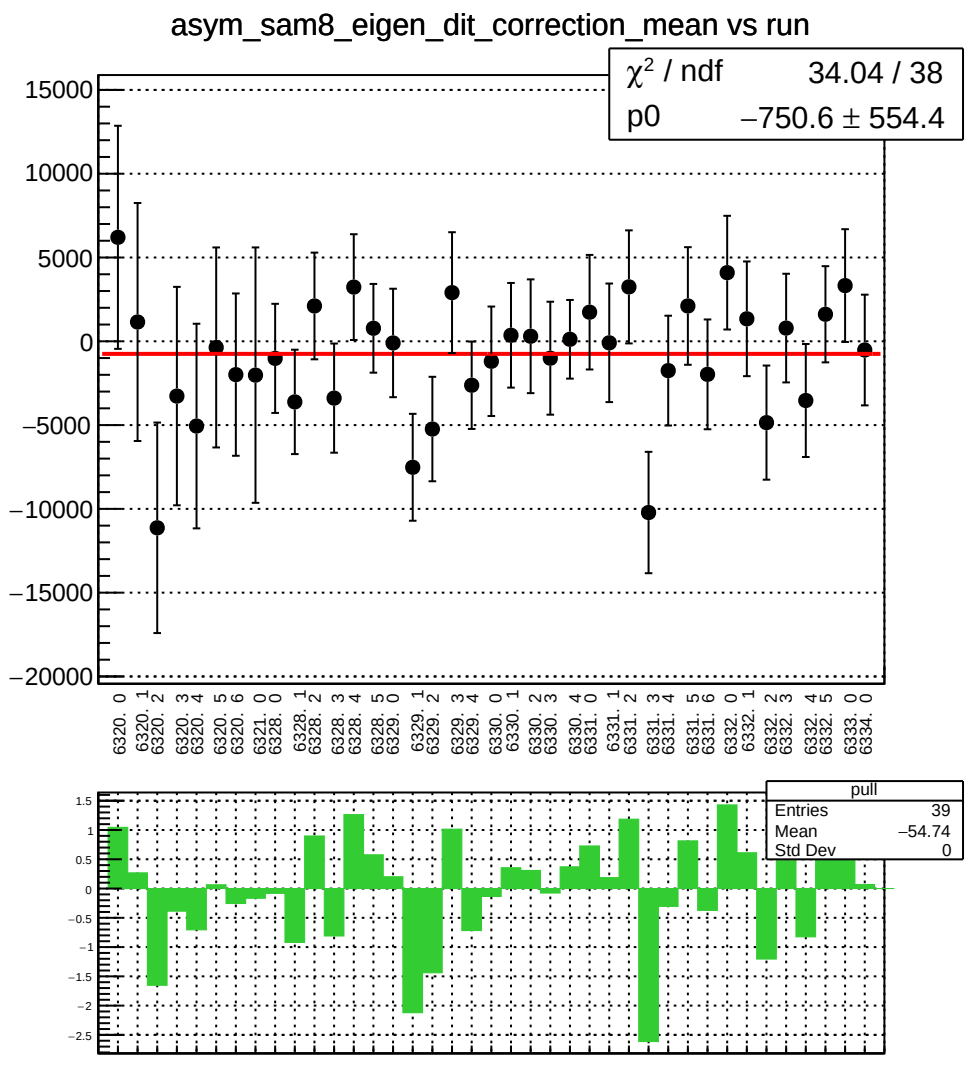

pull1D
Entries 39
Mean −0.02288
Std Dev 0.934
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

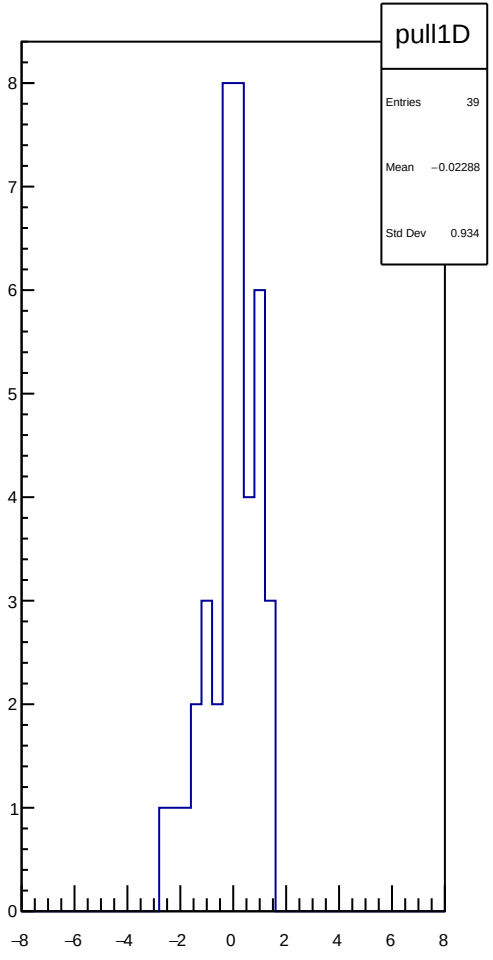

asym_sam8_dit_correction_rms vs run
χ² / ndf 3.467e+04 / 38
p0 333.5 ± 0.3921
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

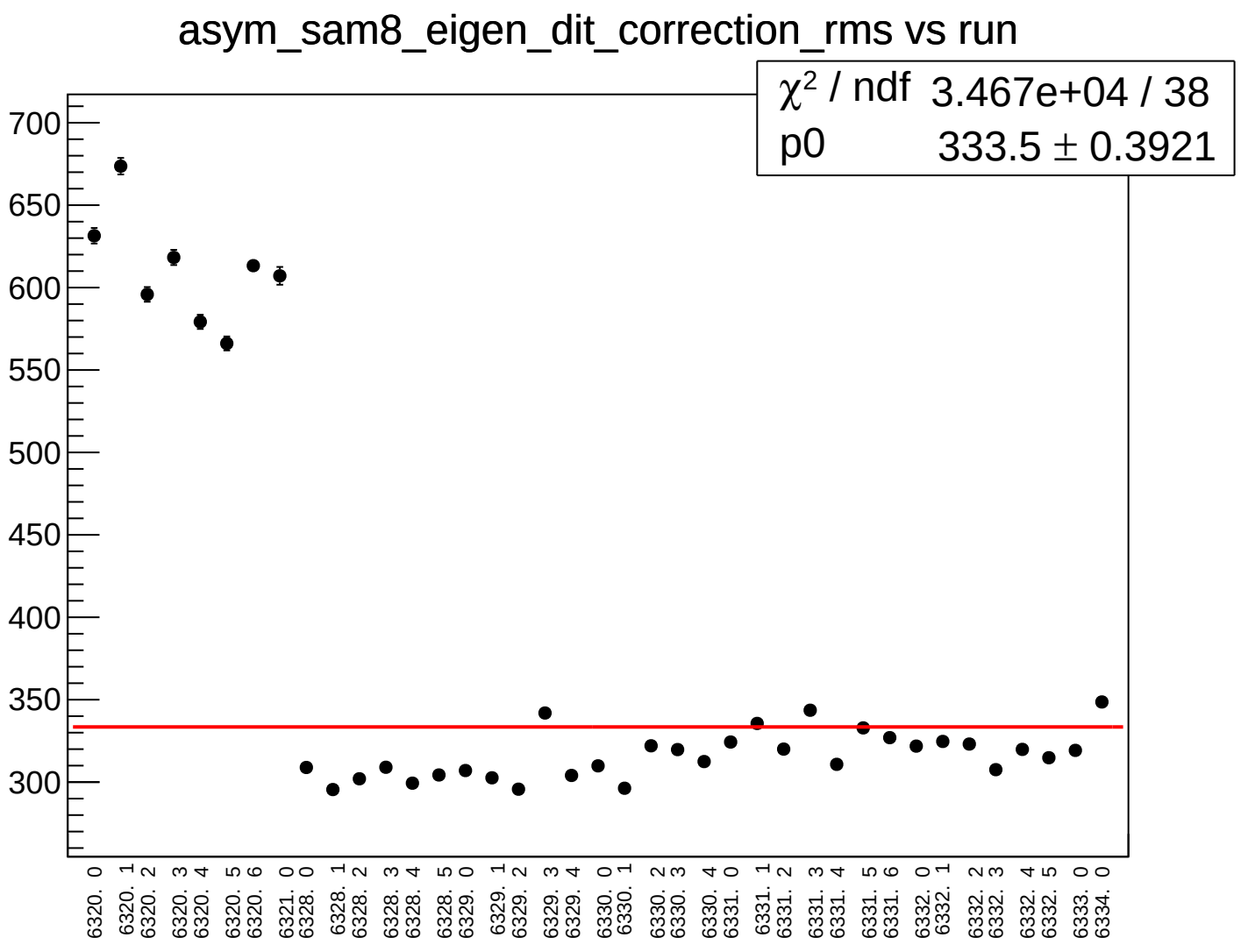

eigen_dit_asym_sam8_mean vs run
χ² / ndf 35.22 / 38
p0 −405.8 ± 109.6
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −68.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

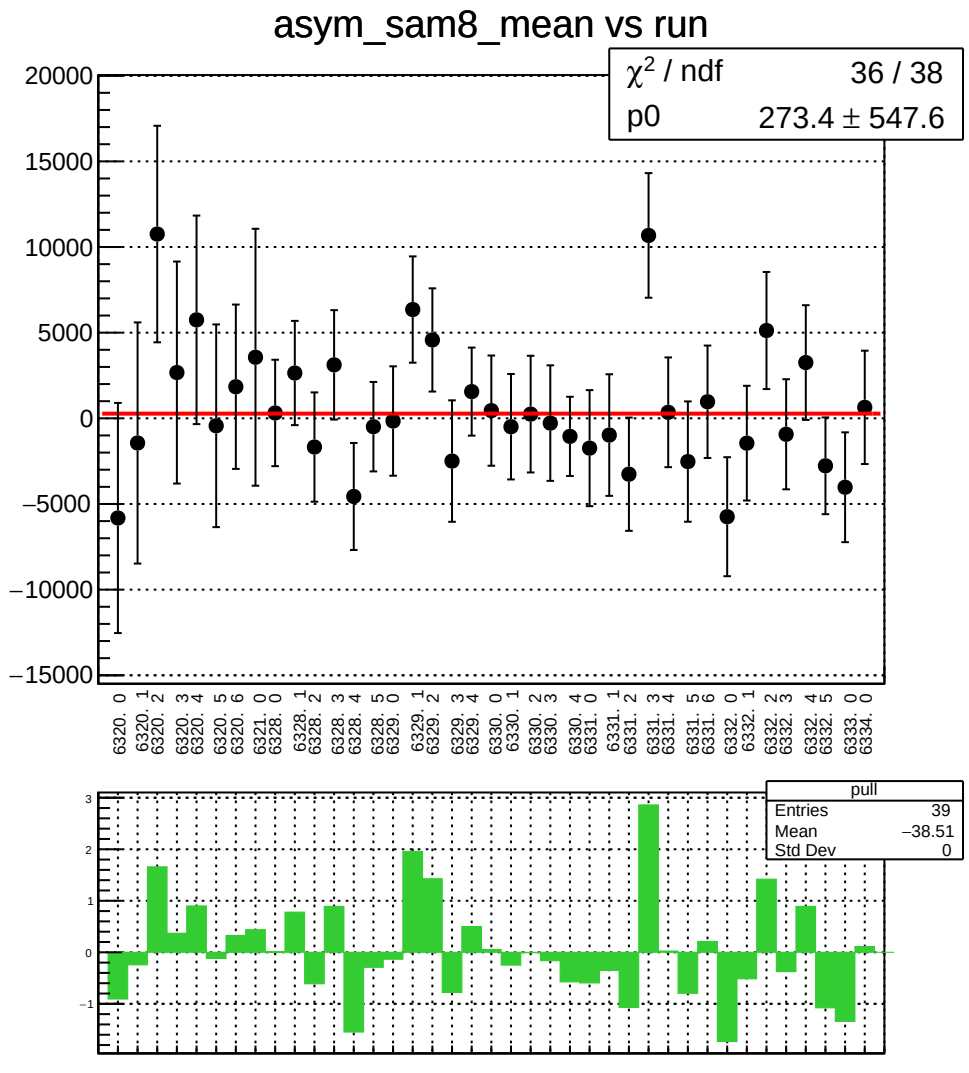

pull1D
Entries 39
Mean 0.024
Std Dev 0.95
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

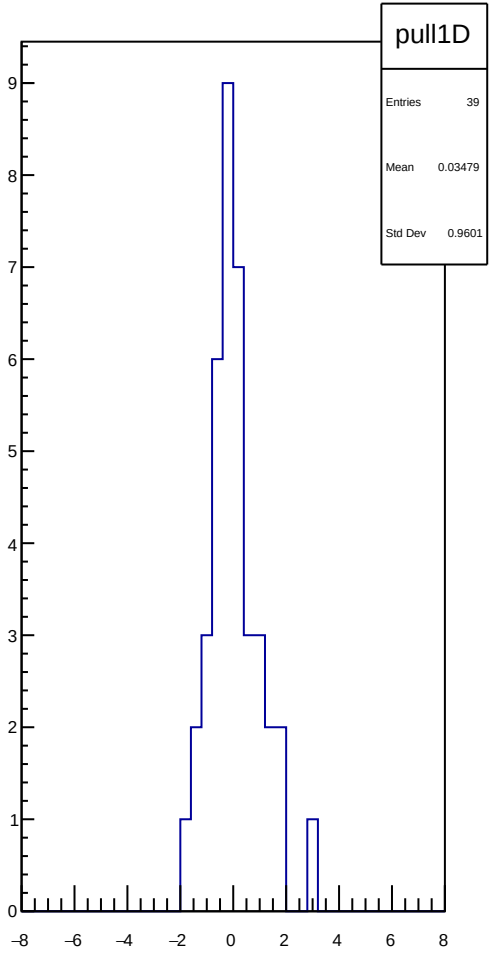

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 2041 / 38
p0 67.36 ± 0.07746
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

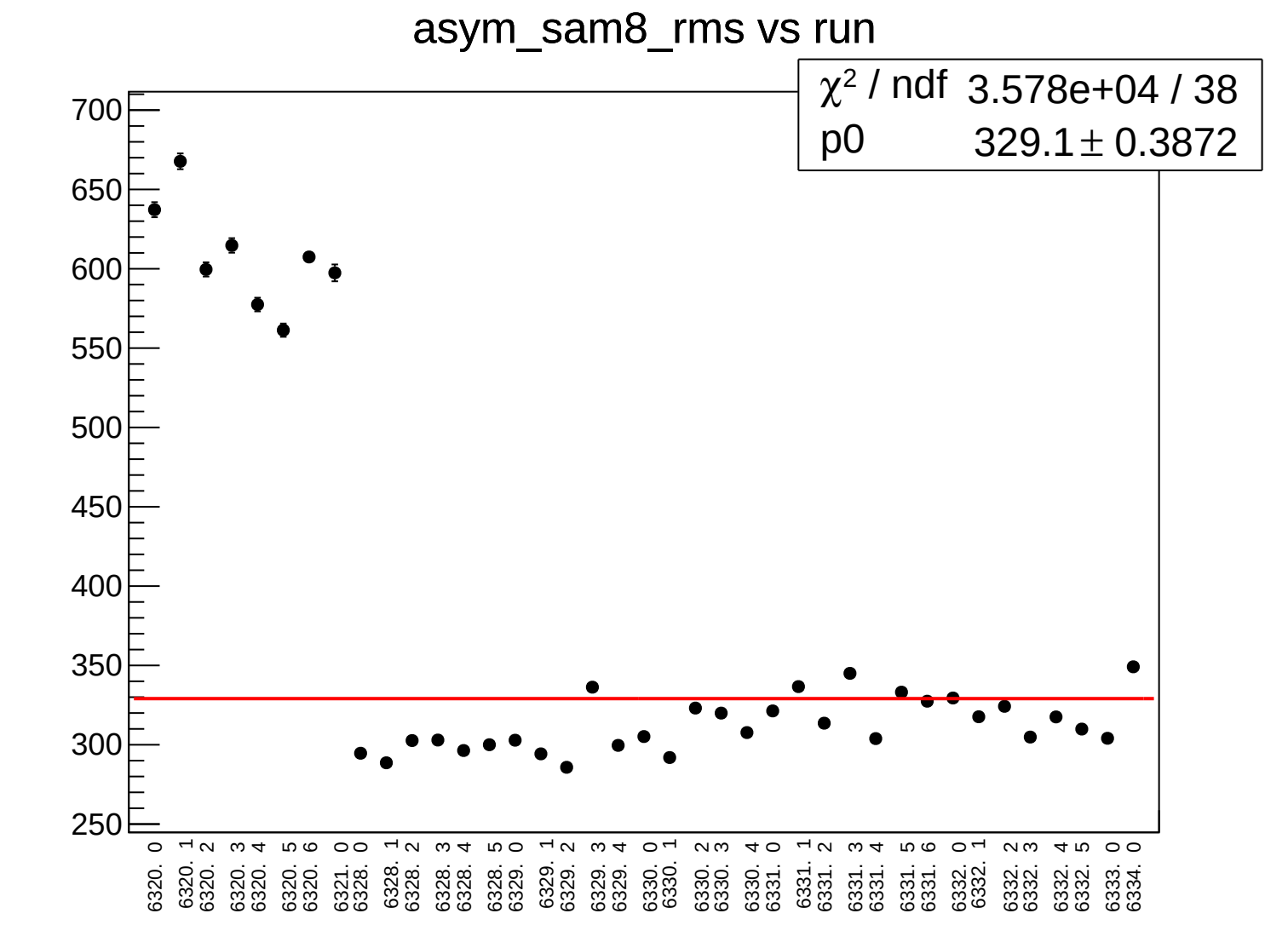

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 34.04 / 38
p0 −750.6 ± 554.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −54.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

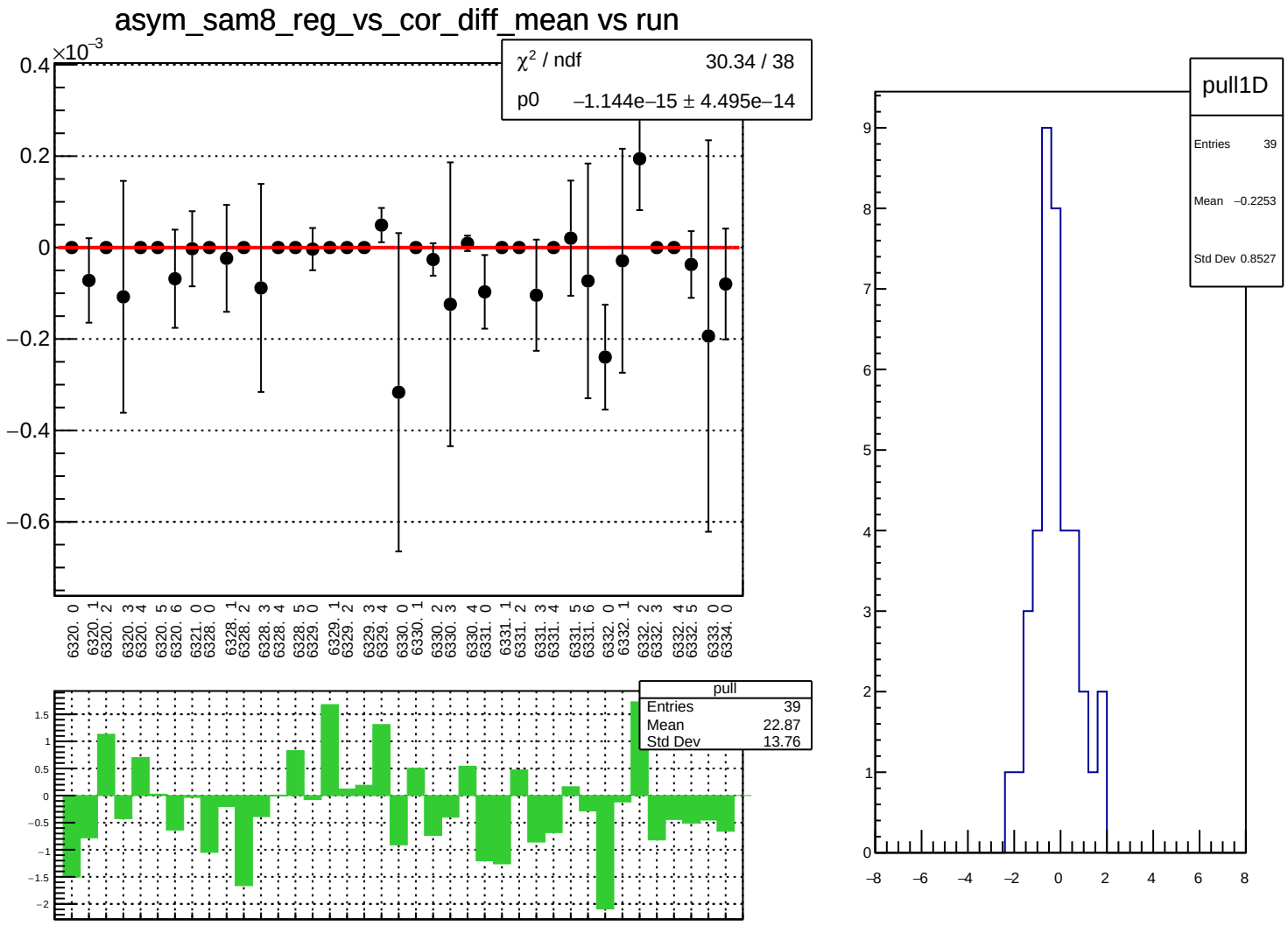

pull1D
Entries 39
Mean −0.02288
Std Dev 0.934
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

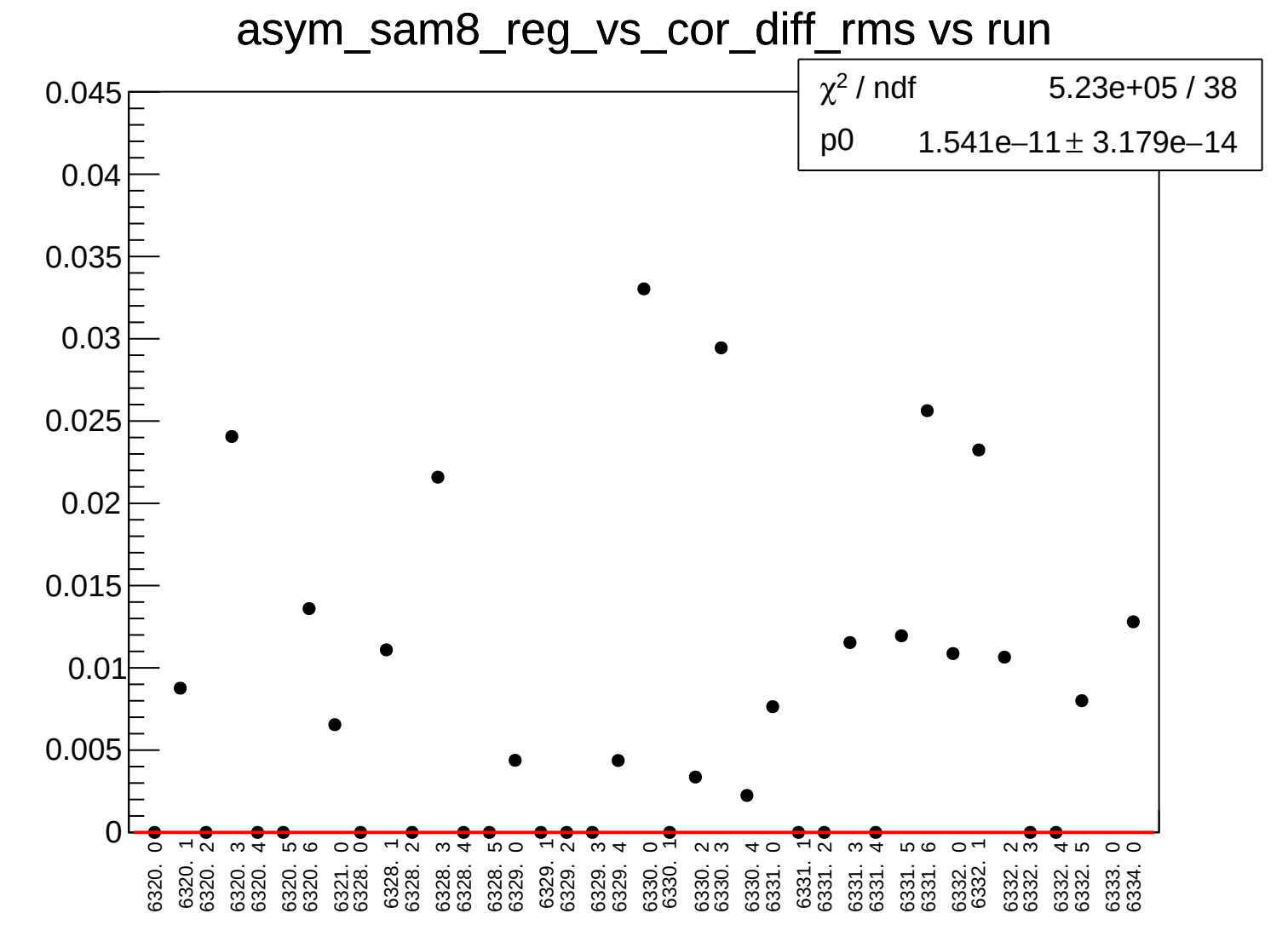

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3.467e+04 / 38
p0 333.5 ± 0.3921
700
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

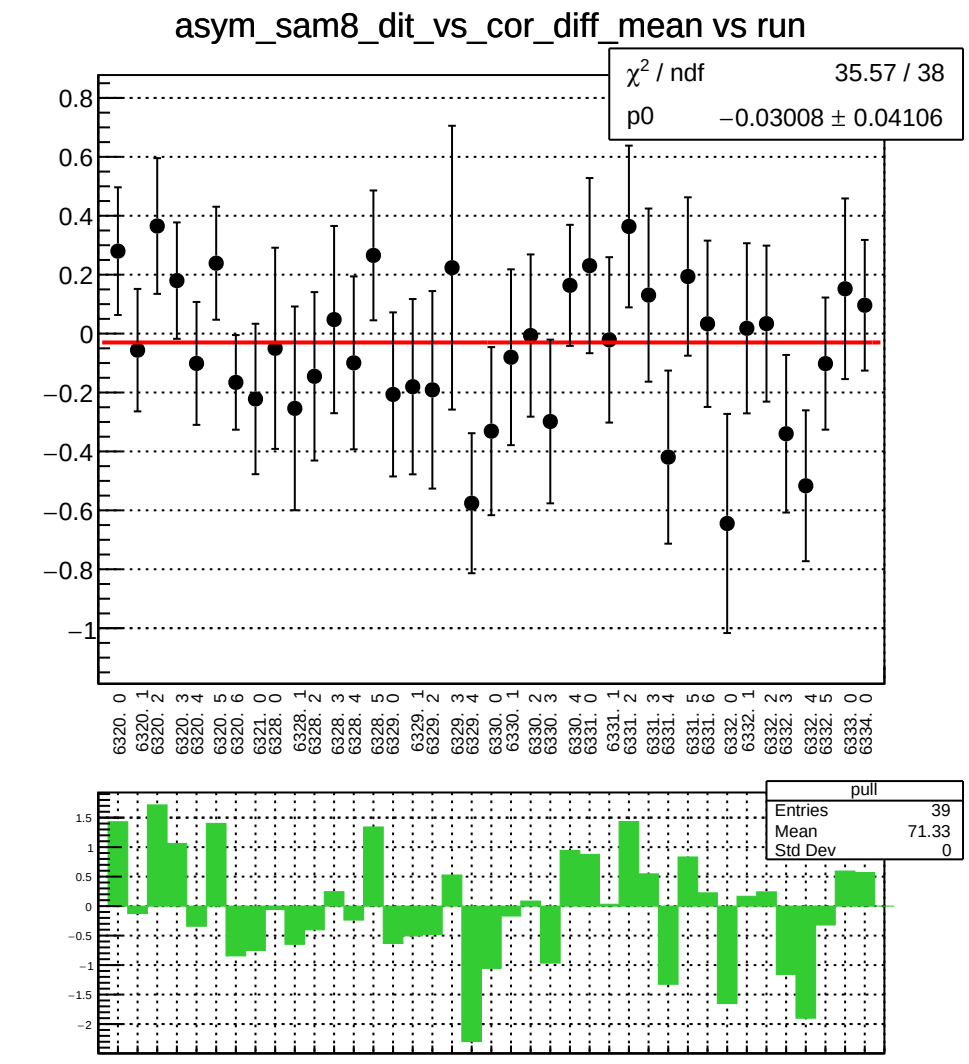

asym_sam8_mean vs run
χ² / ndf 36 / 38
p0 273.4 ± 547.6
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.51
Std Dev 0
3
2
1
0
−1

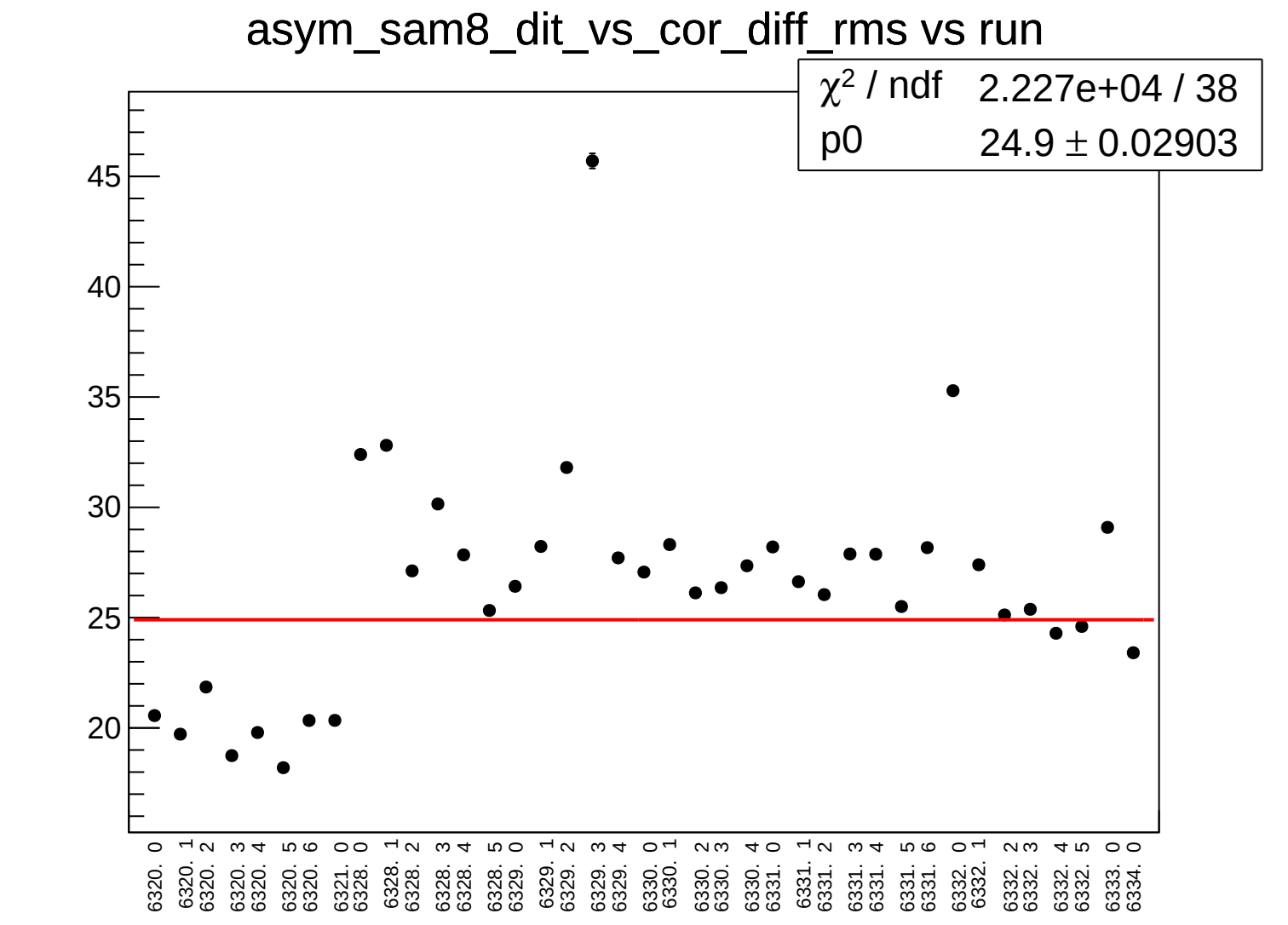

pull1D
Entries 39
Mean 0.03479
Std Dev 0.9601
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

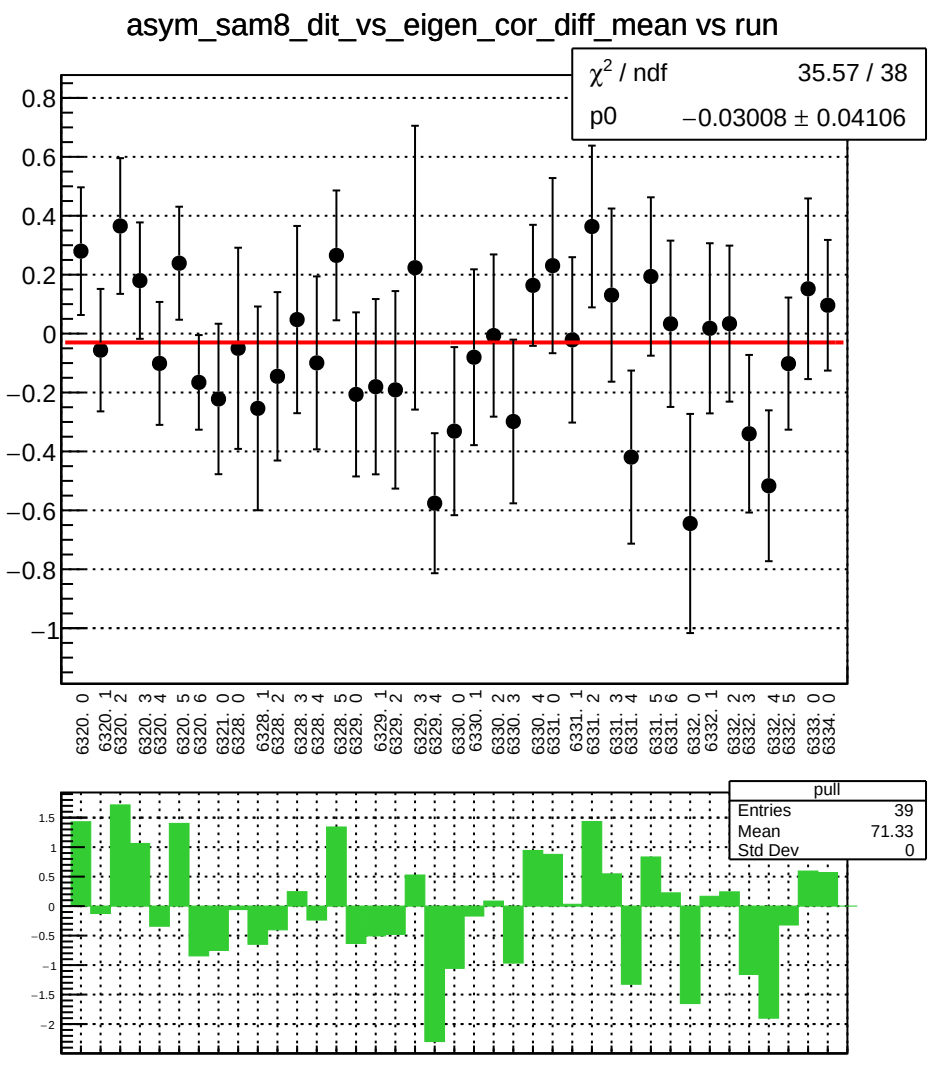

asym_sam8_rms vs run
χ² / ndf 3.578e+04 / 38
p0 329.1 ± 0.3872
700
650
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

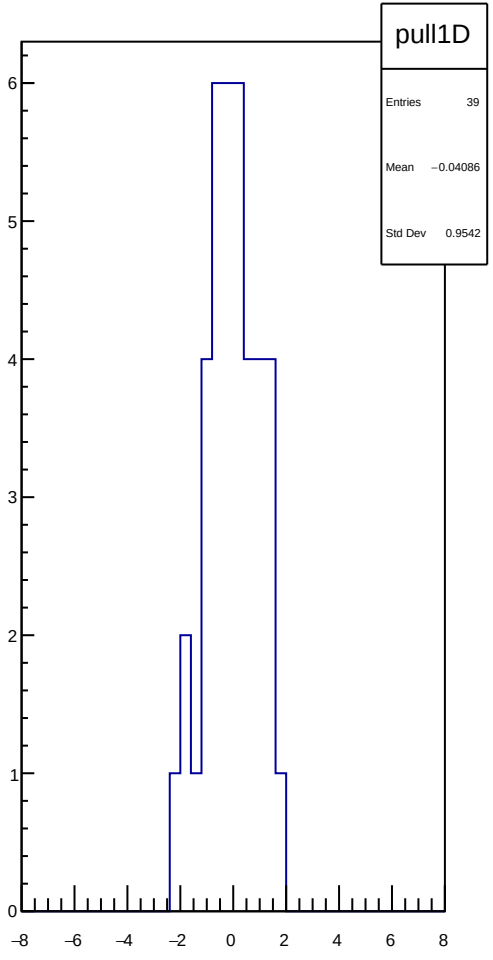

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 30.34 / 38
p0 −1.144e−15 ± 4.495e−14
pull
Entries 39
Mean 22.87
Std Dev 13.76
pull1D
Entries 39
Mean −0.2253
Std Dev 0.8527

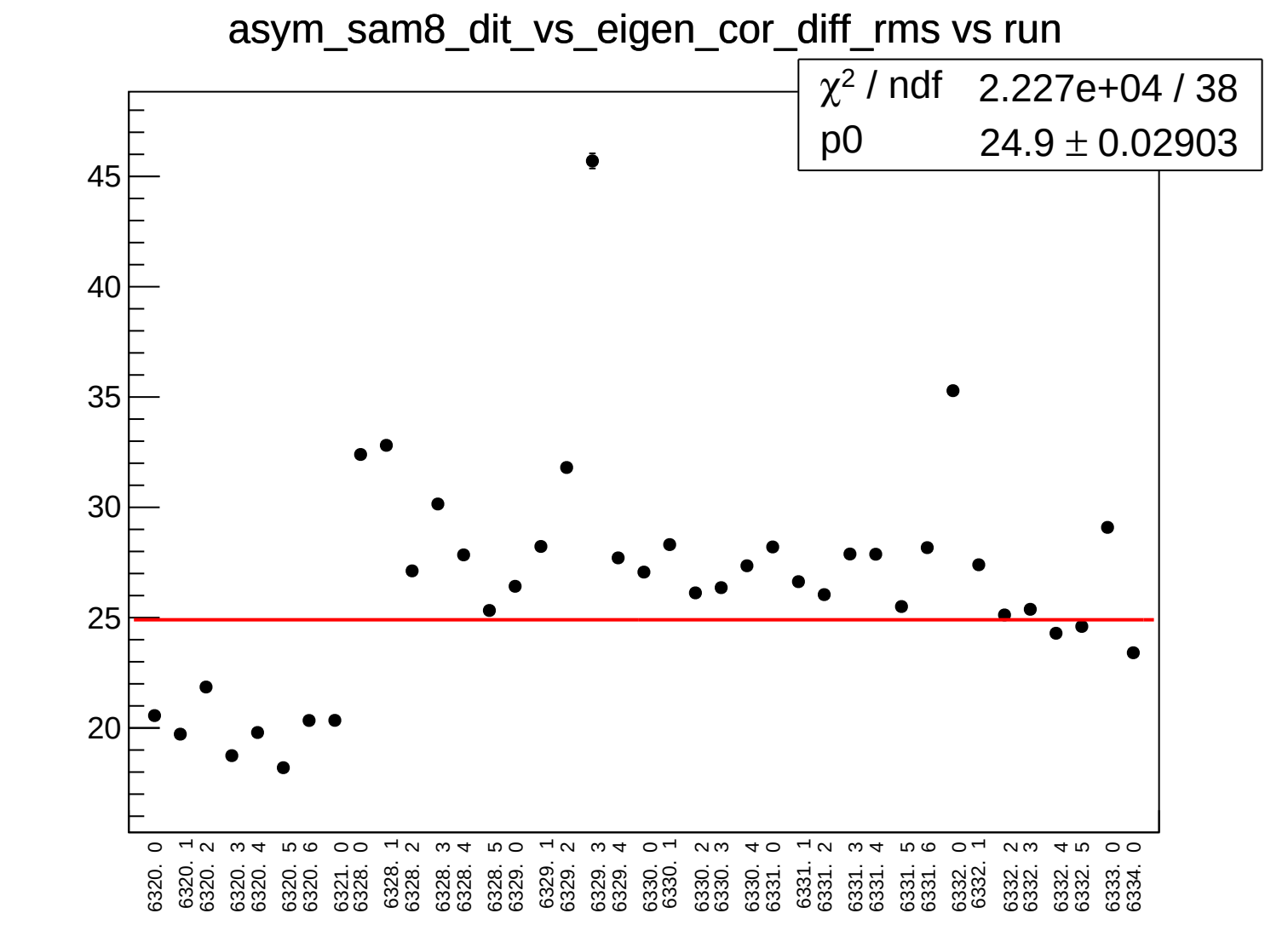

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.23e+05 / 38
p0 1.541e−11 ± 3.179e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

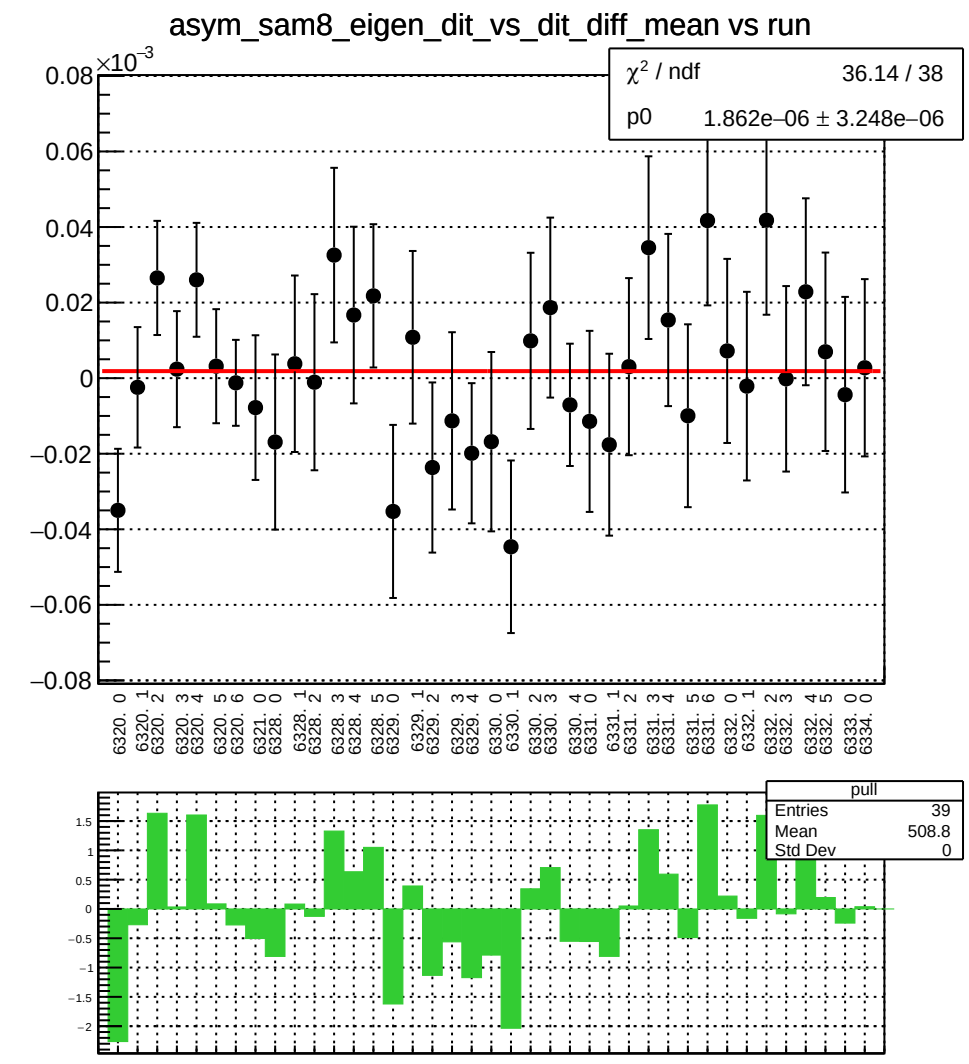

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 35.57 / 38
p0 −0.03008 ± 0.04106
pull
Entries 39
Mean 71.33
Std Dev 0
pull1D
Entries 39
Mean −0.04086
Std Dev 0.9542

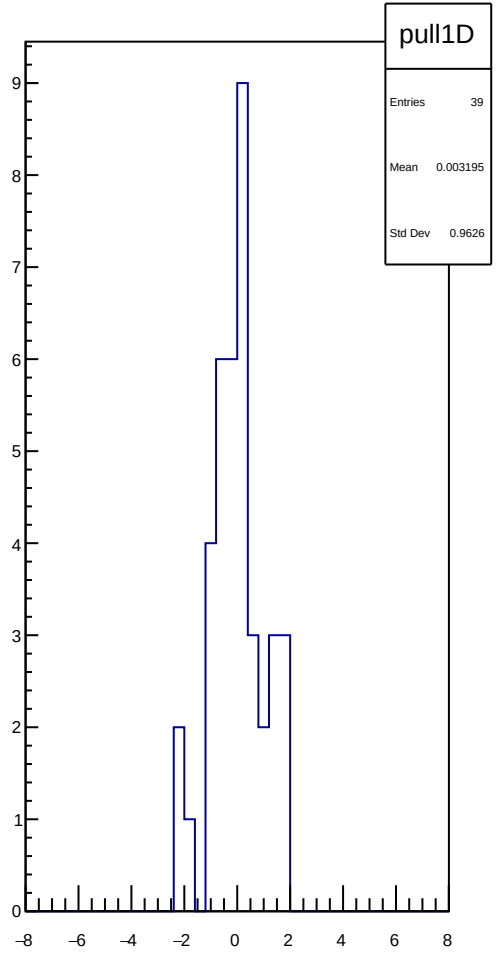

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.227e+04 / 38
p0 24.9 ± 0.02903
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

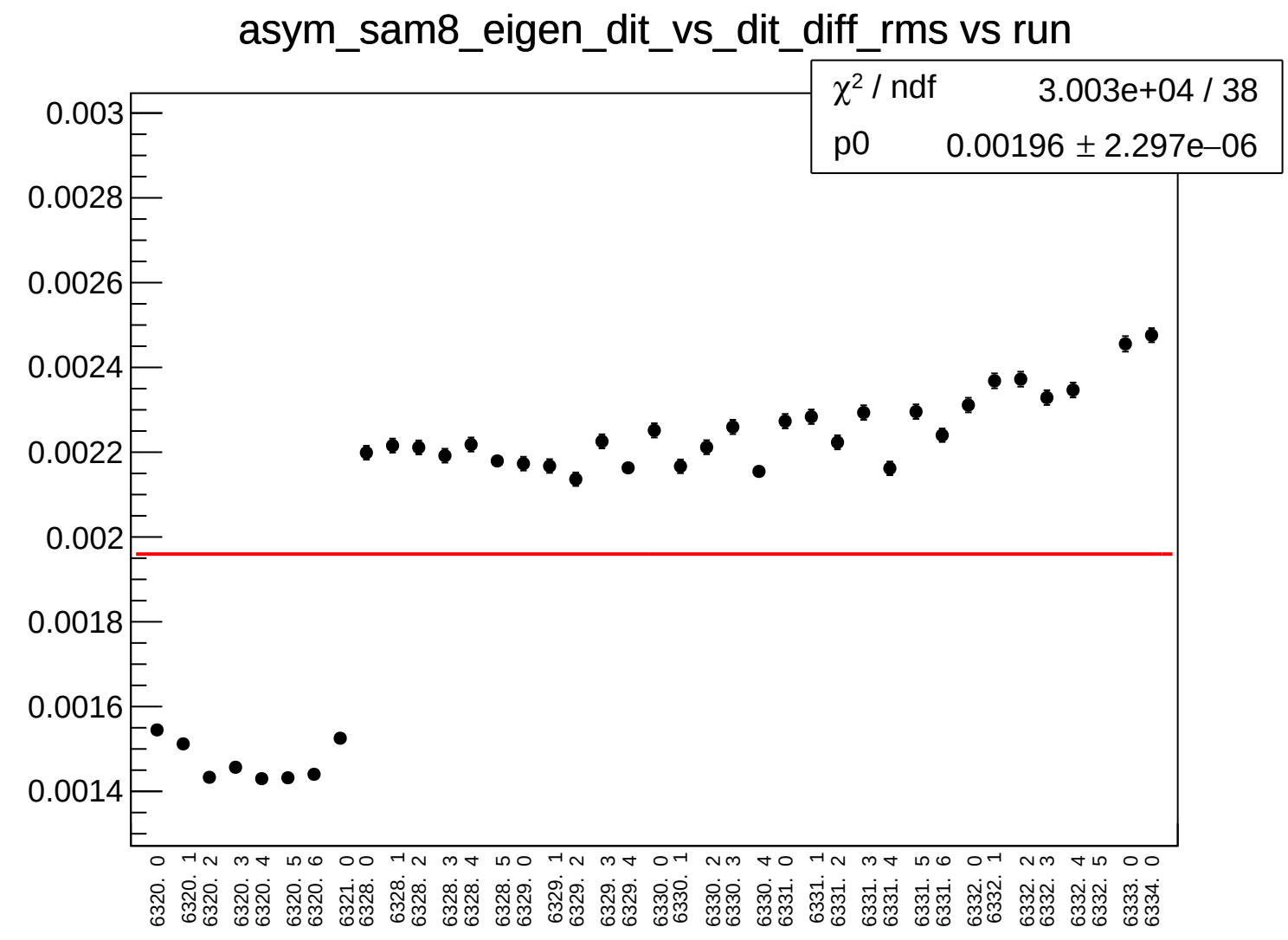

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.57 / 38
p0 −0.03008 ± 0.04106
pull
Entries 39
Mean 71.33
Std Dev 0

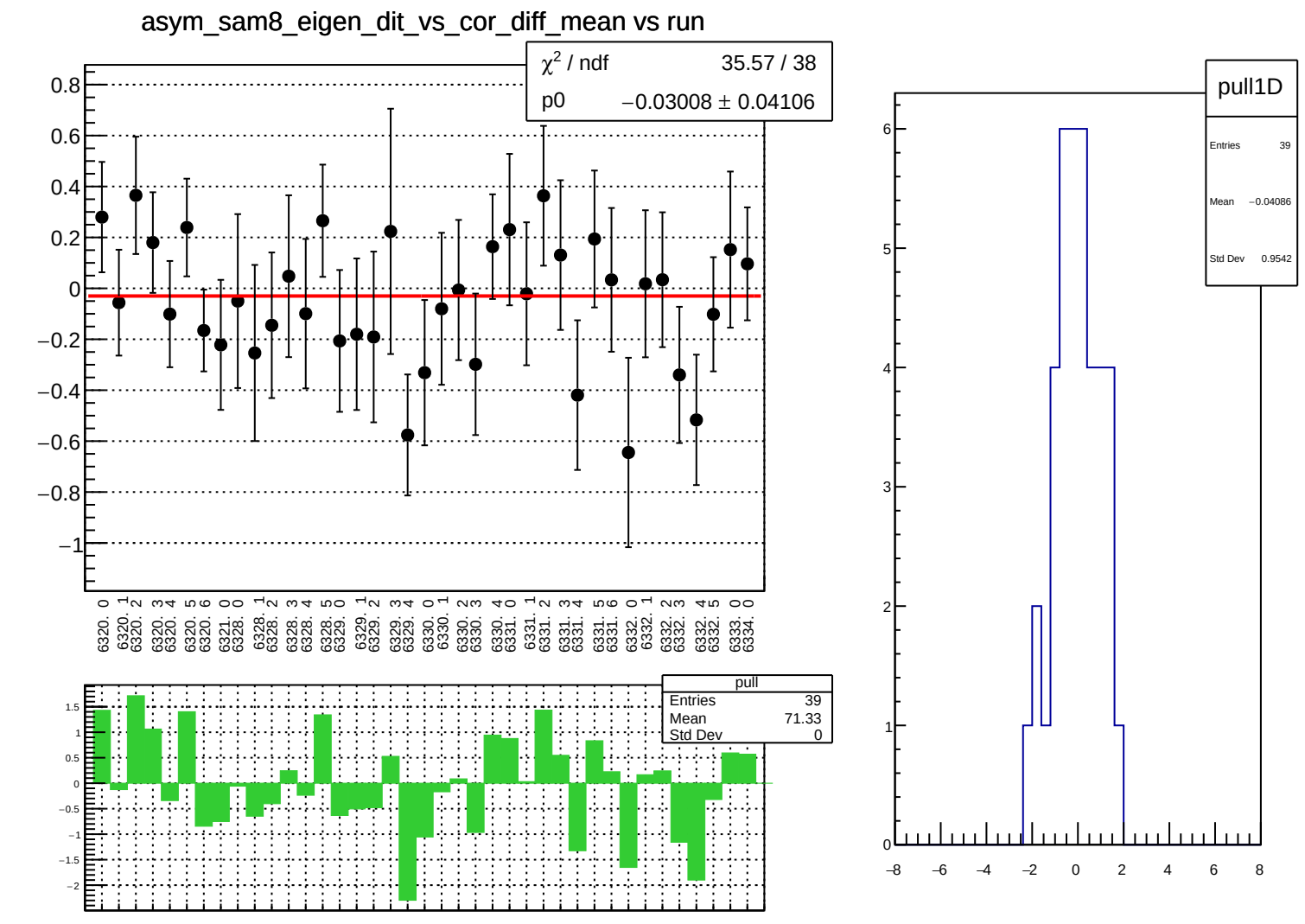

pull1D
Entries 39
Mean −0.04086
Std Dev 0.9542

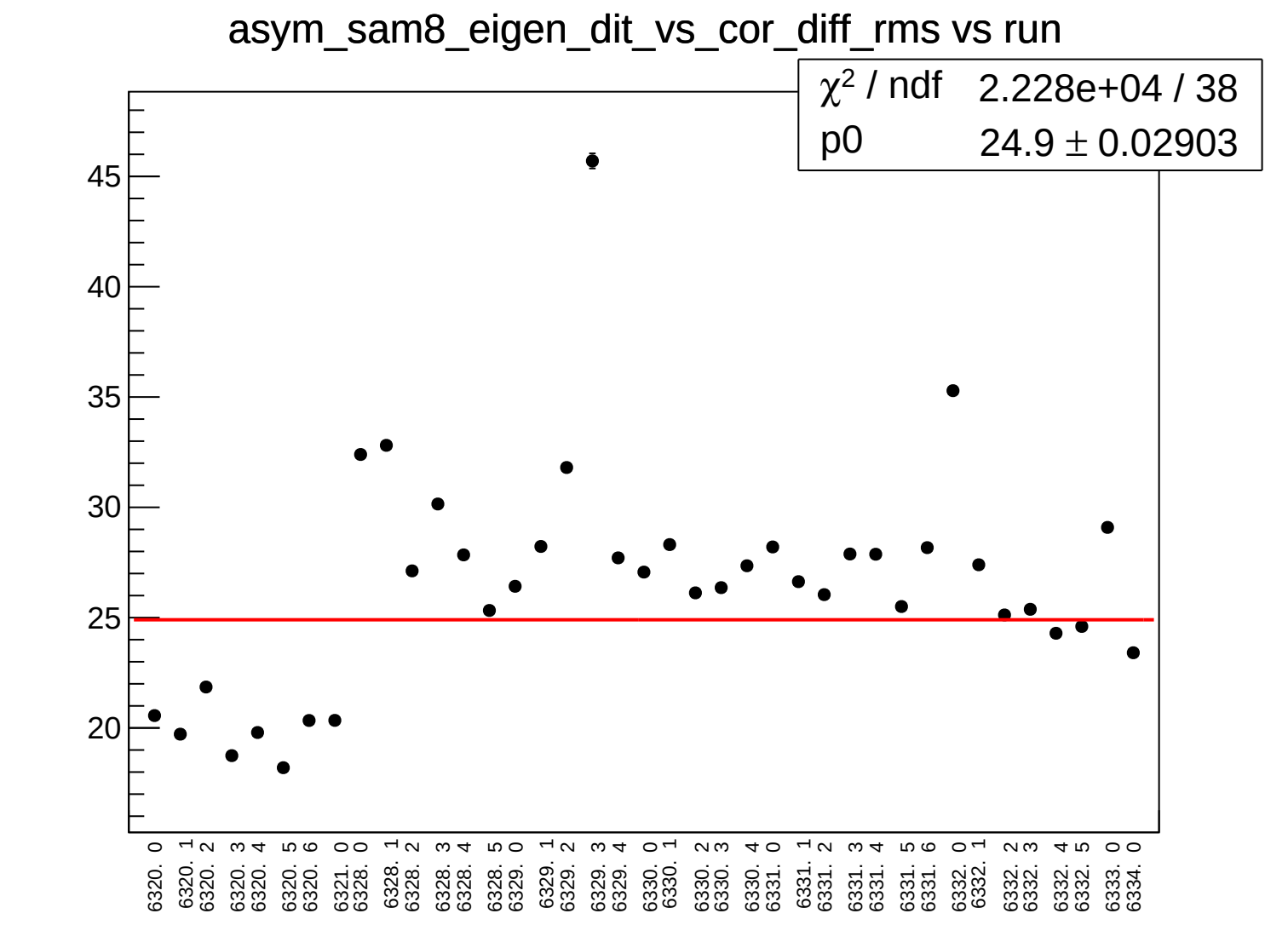

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.227e+04 / 38
p0 24.9 ± 0.02903
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

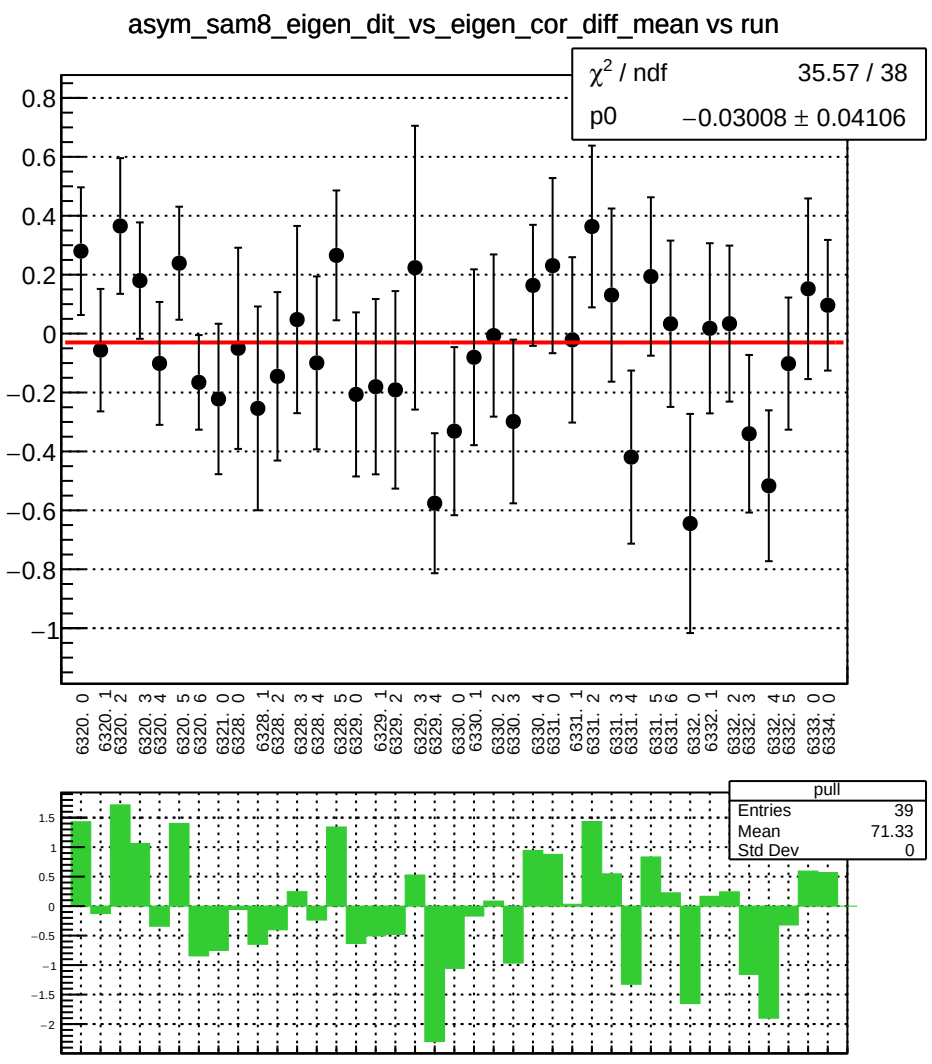

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 36.14 / 38
p0 1.862e−06 ± 3.248e−06
×10⁻³
pull
Entries 39
Mean 508.8
Std Dev 0

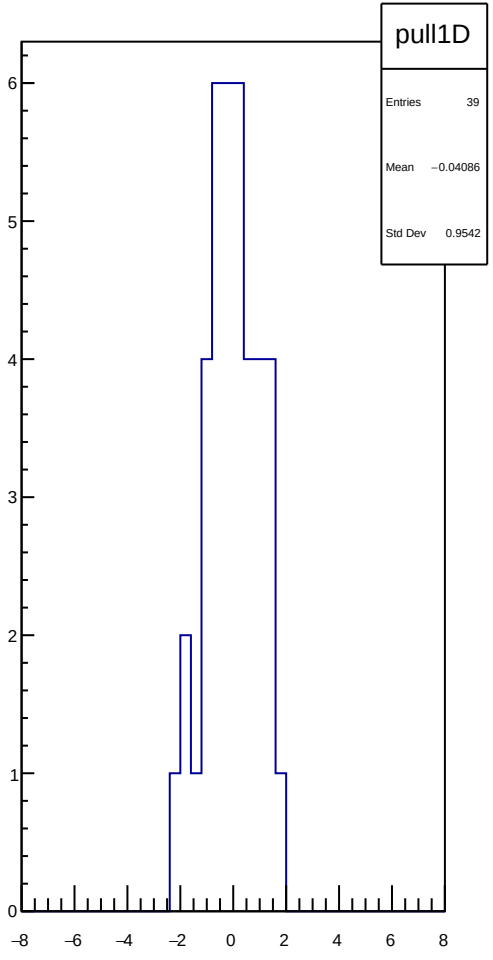

pull1D
Entries 39
Mean 0.003195
Std Dev 0.9626

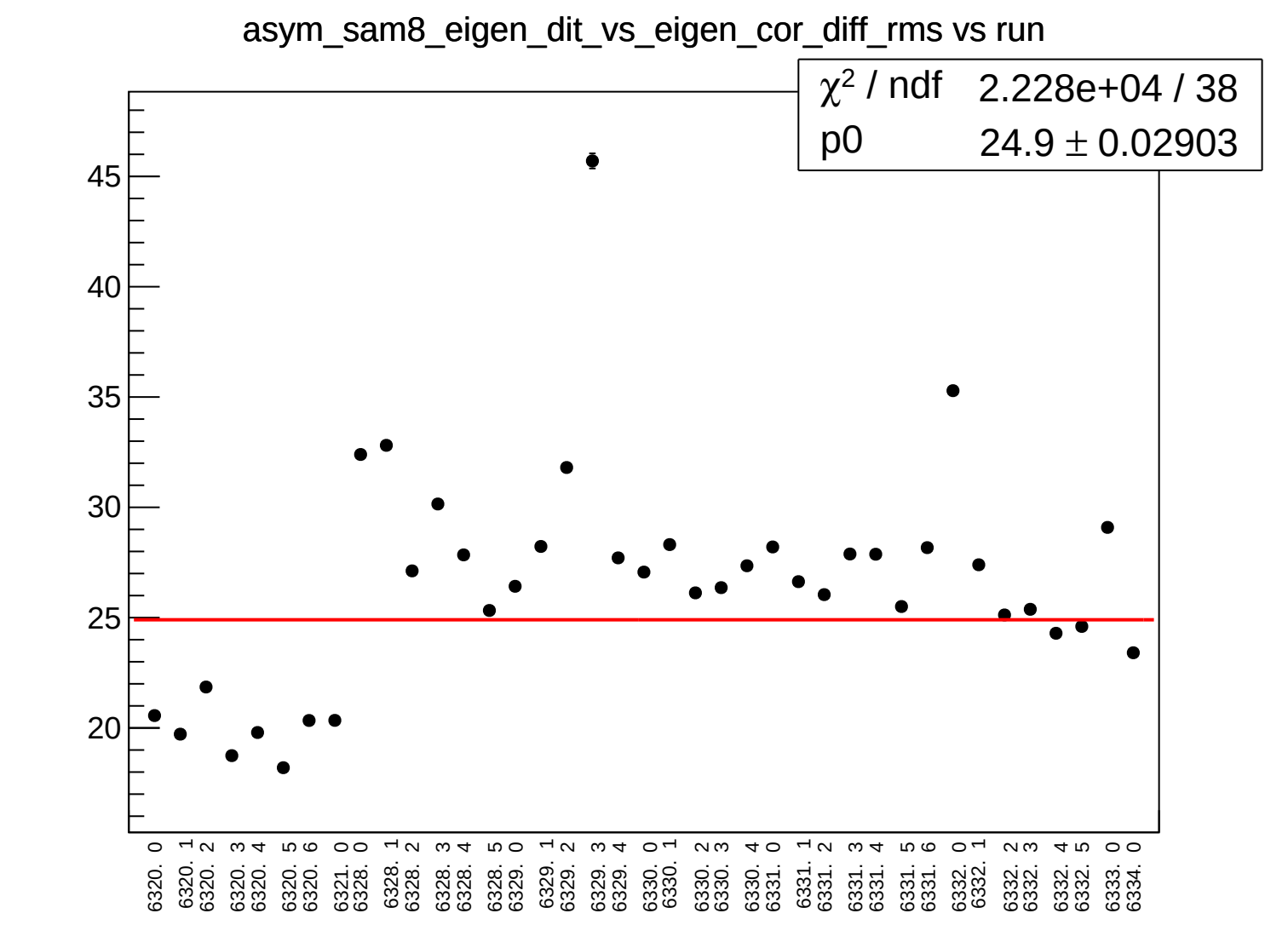

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.003e+04 / 38
p0 0.00196 ± 2.297e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

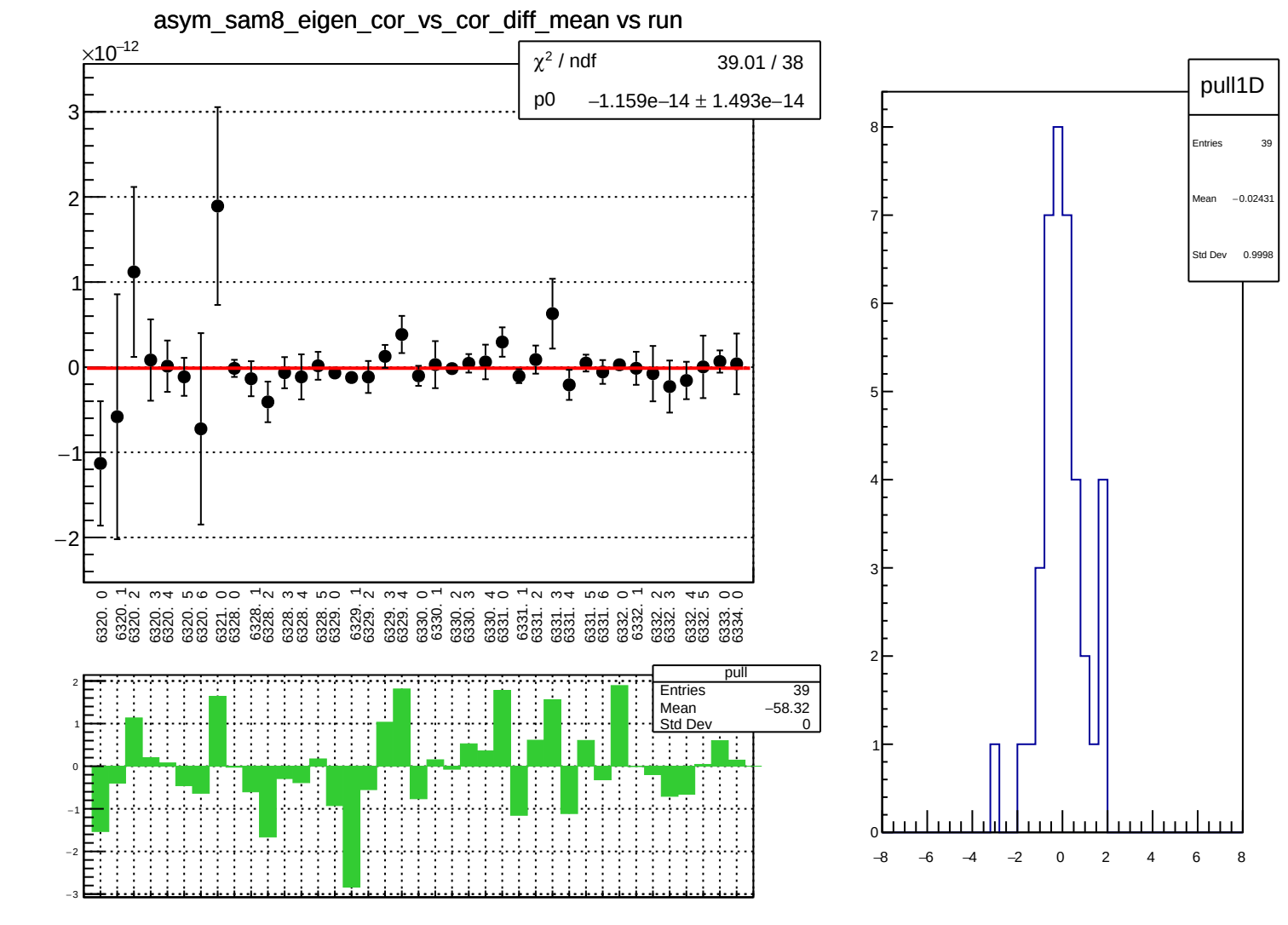

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.57 / 38
p0 −0.03008 ± 0.04106
pull
Entries 39
Mean 71.33
Std Dev 0
pull1D
Entries 39
Mean −0.04086
Std Dev 0.9542

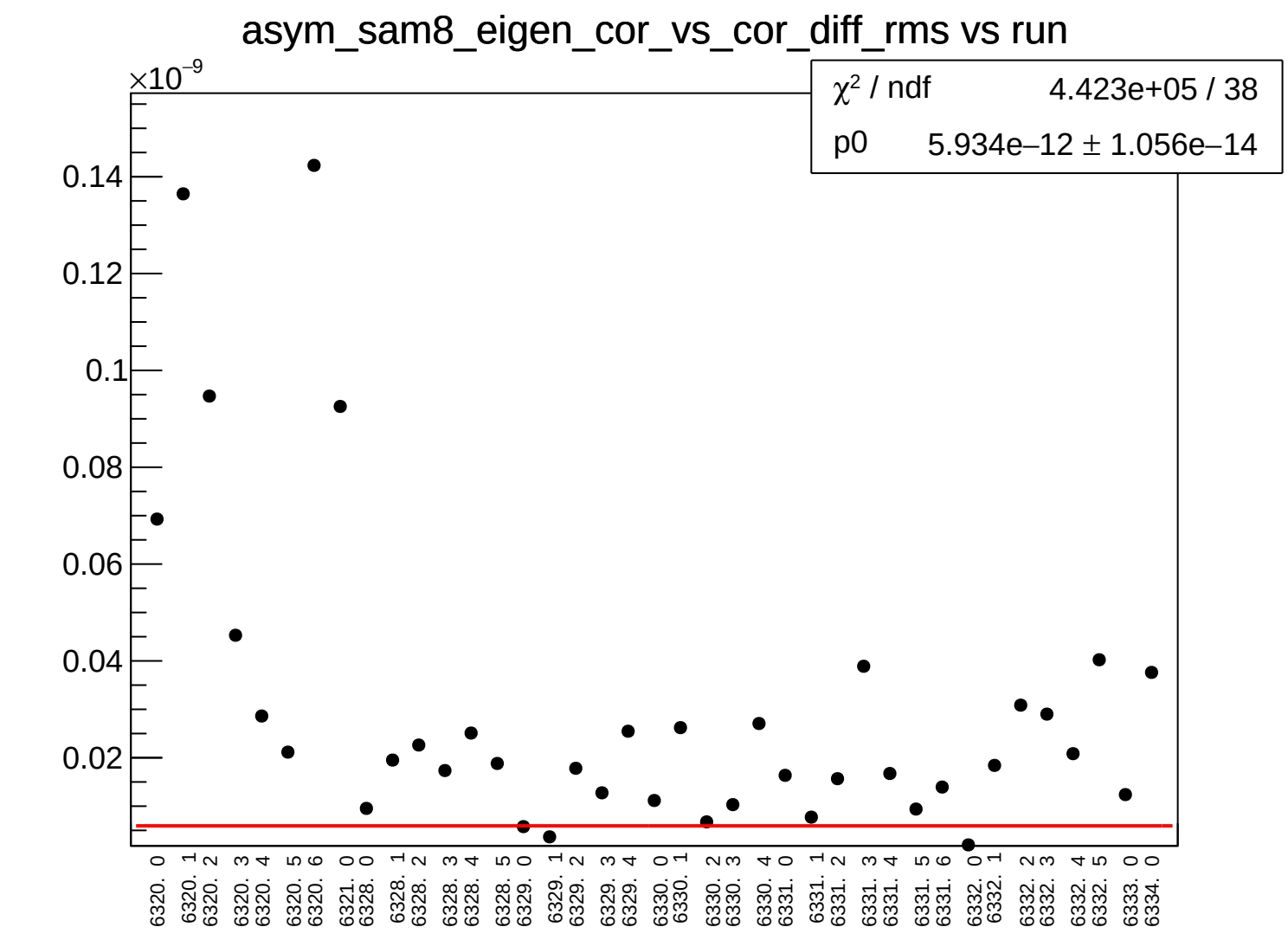

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.228e+04 / 38
p0 24.9 ± 0.02903
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

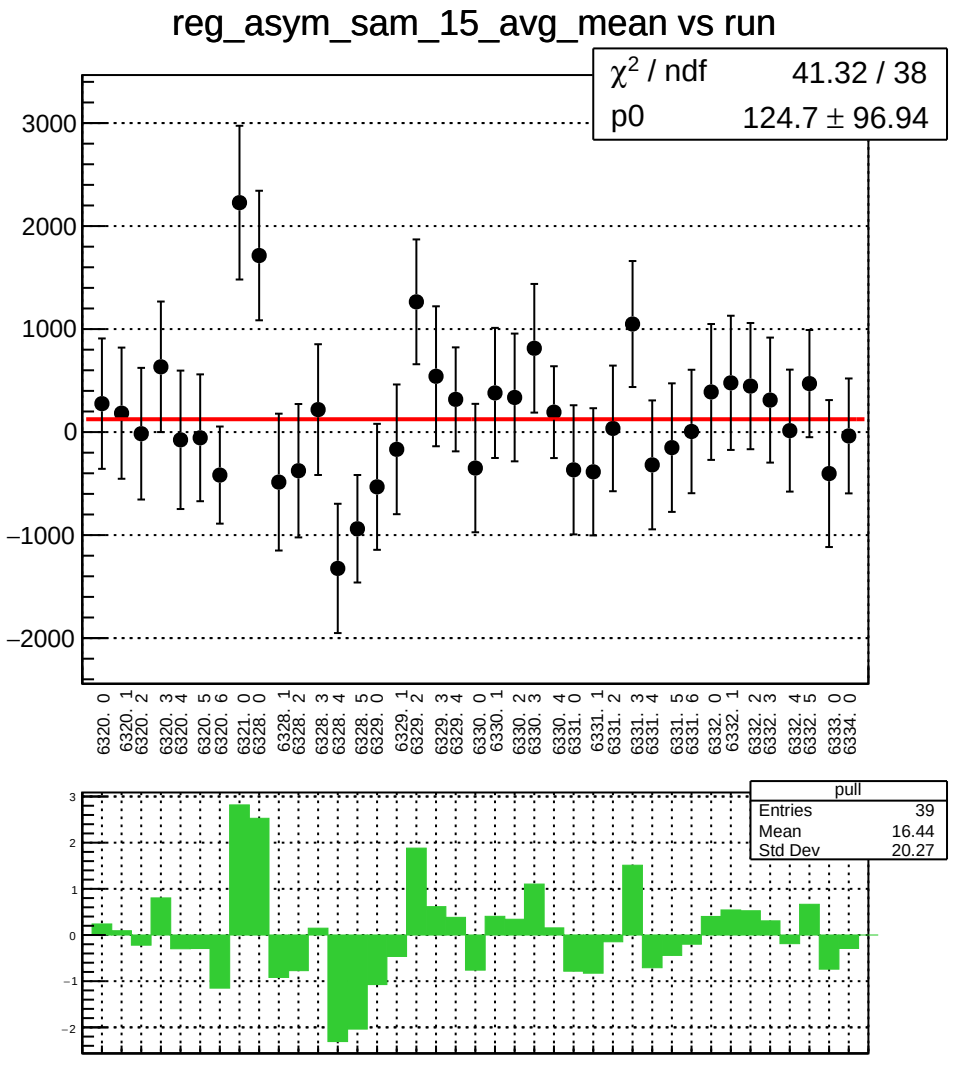

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.57 / 38
p0 −0.03008 ± 0.04106
pull
Entries 39
Mean 71.33
Std Dev 0

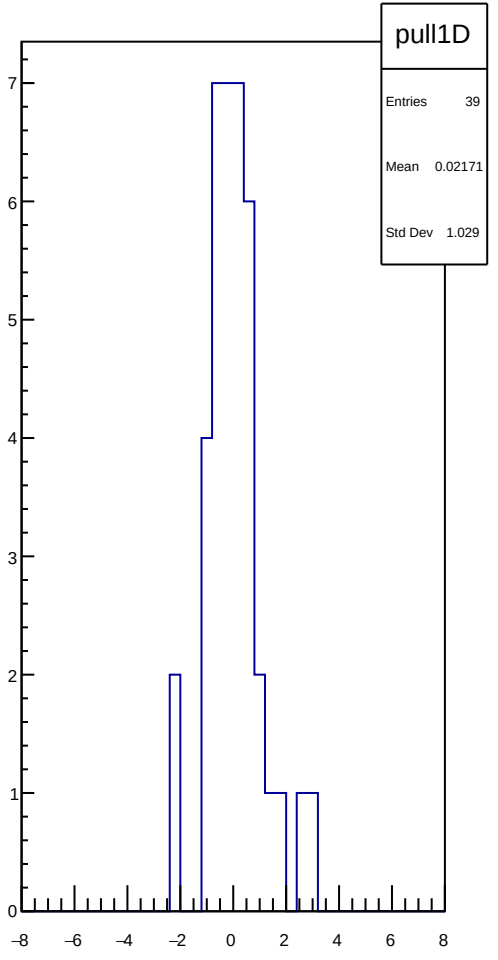

pull1D
Entries 39
Mean −0.04086
Std Dev 0.9542

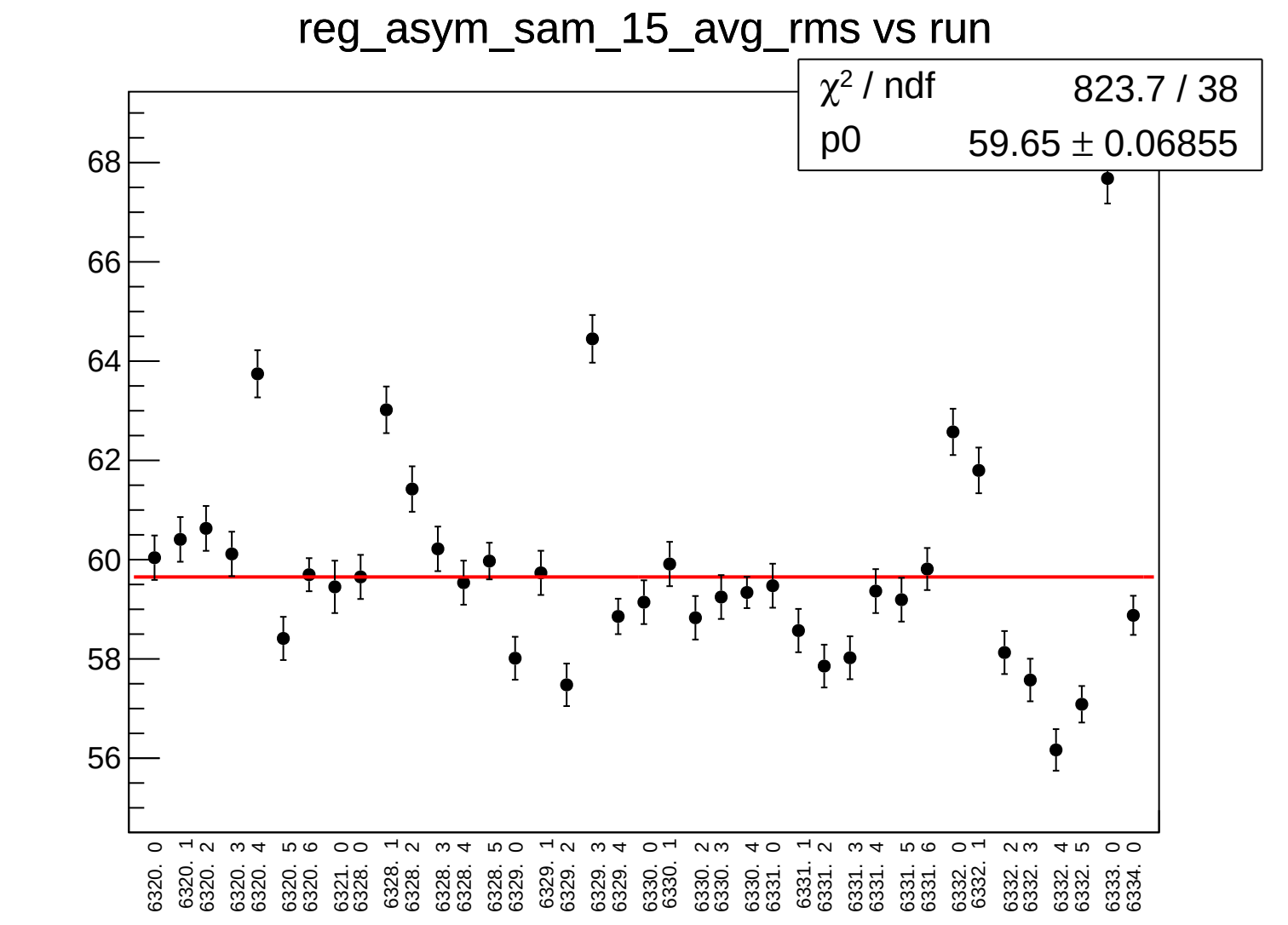

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.228e+04 / 38
p0 24.9 ± 0.02903
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

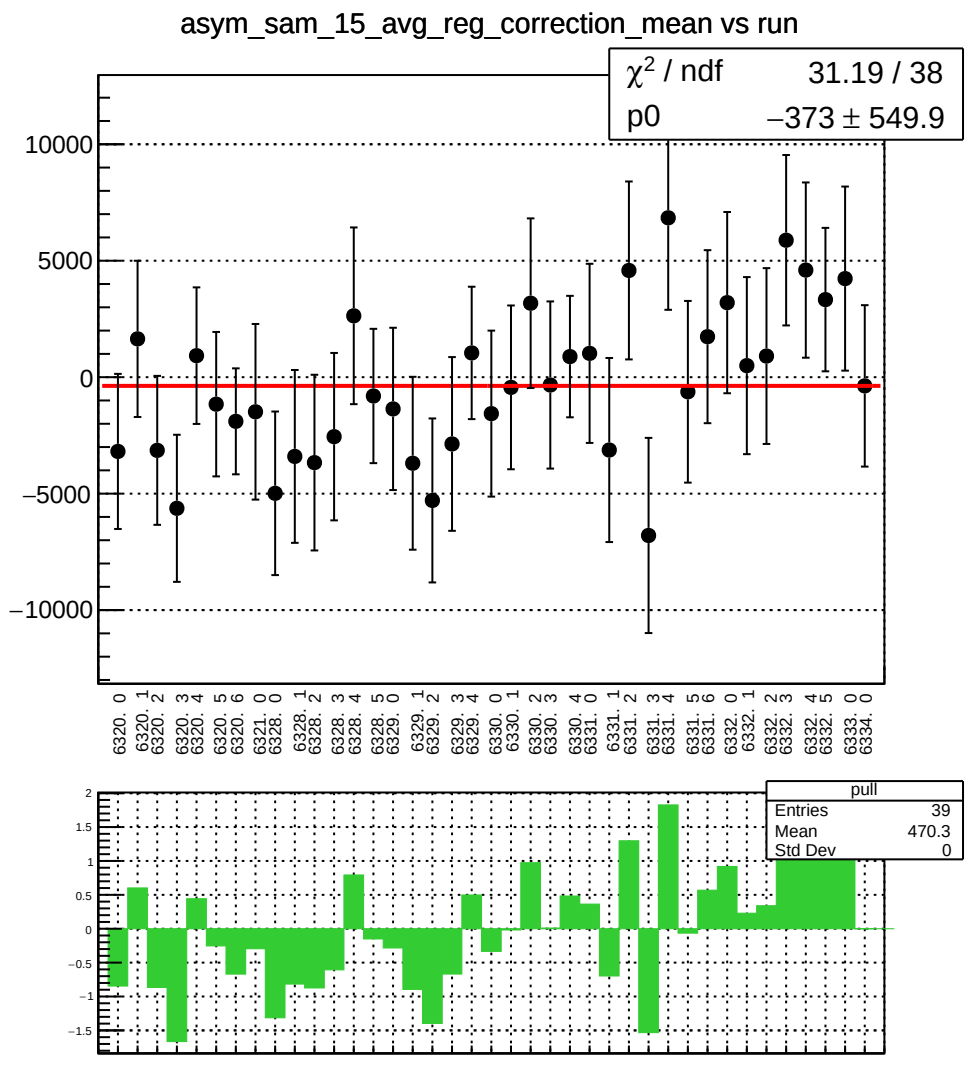

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.01 / 38
p0 −1.159e−14 ± 1.493e−14
pull
Entries 39
Mean −58.32
Std Dev 0
pull1D
Entries 39
Mean −0.02431
Std Dev 0.9998

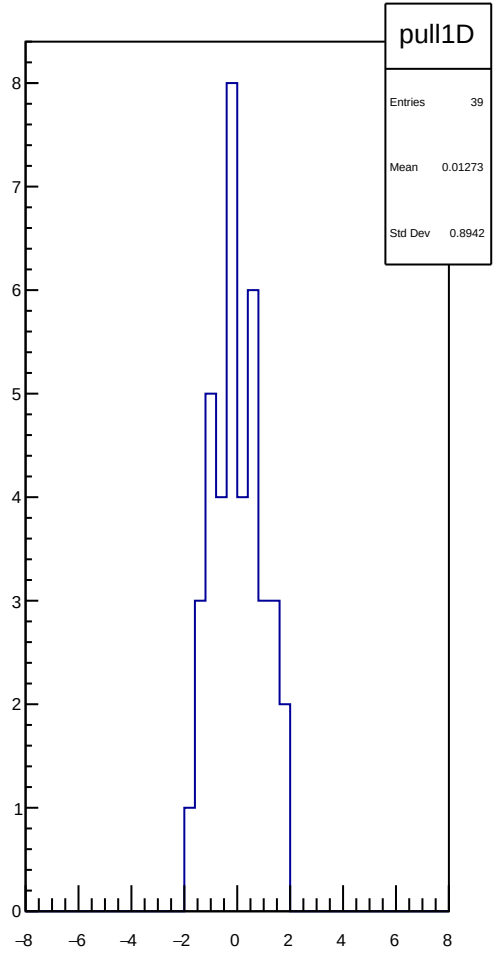

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.423e+05 / 38
p0 5.934e−12 ± 1.056e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

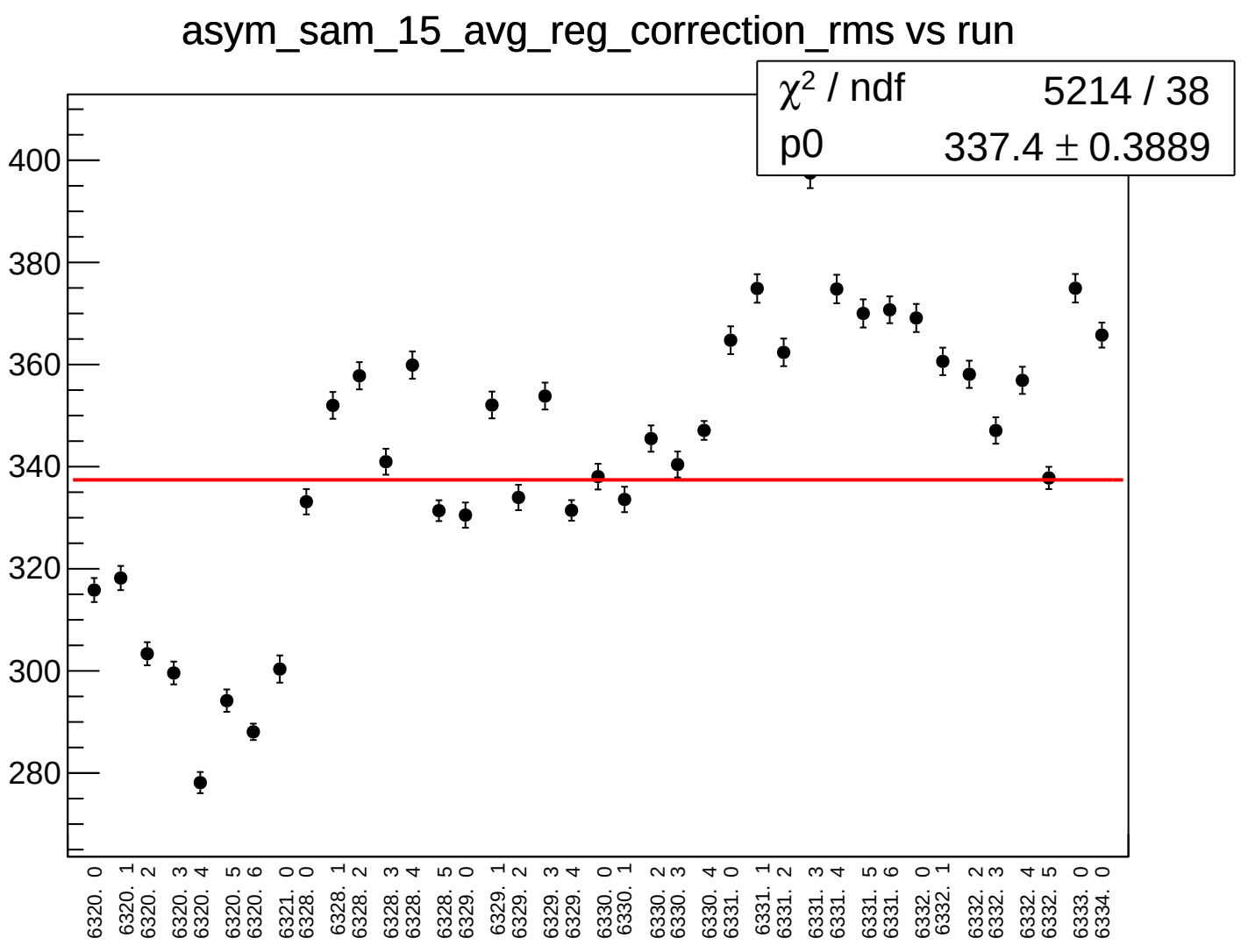

reg_asym_sam_15_avg_mean vs run
χ² / ndf 41.32 / 38
p0 124.7 ± 96.94
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 16.44
Std Dev 20.27
3
2
1
0
−1
−2

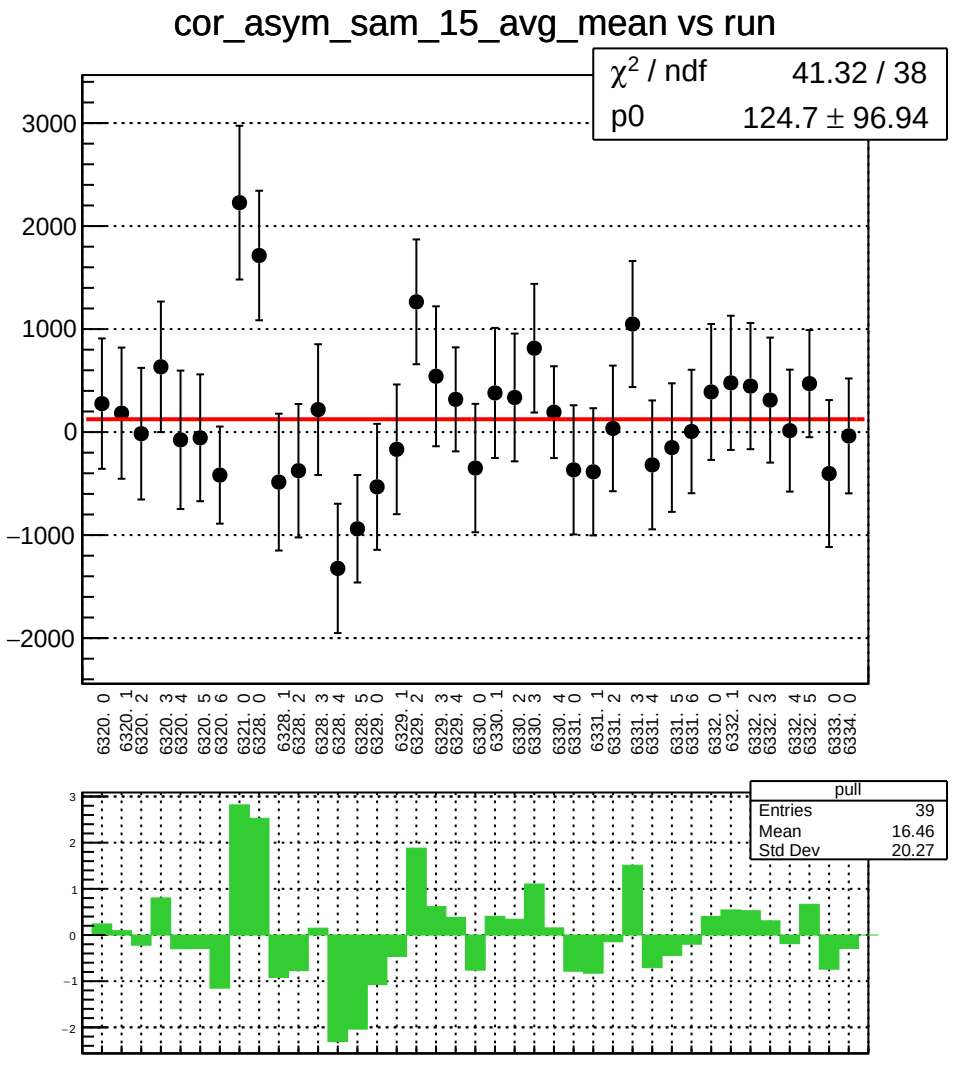

pull1D
Entries 39
Mean 0.02171
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

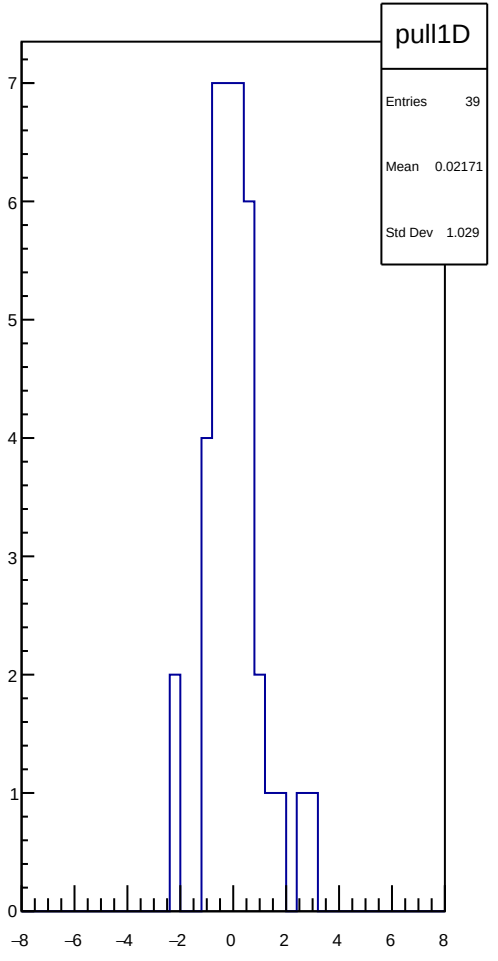

reg_asym_sam_15_avg_rms vs run
χ² / ndf 823.7 / 38
p0 59.65 ± 0.06855
68
66
64
62
60
58
56
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

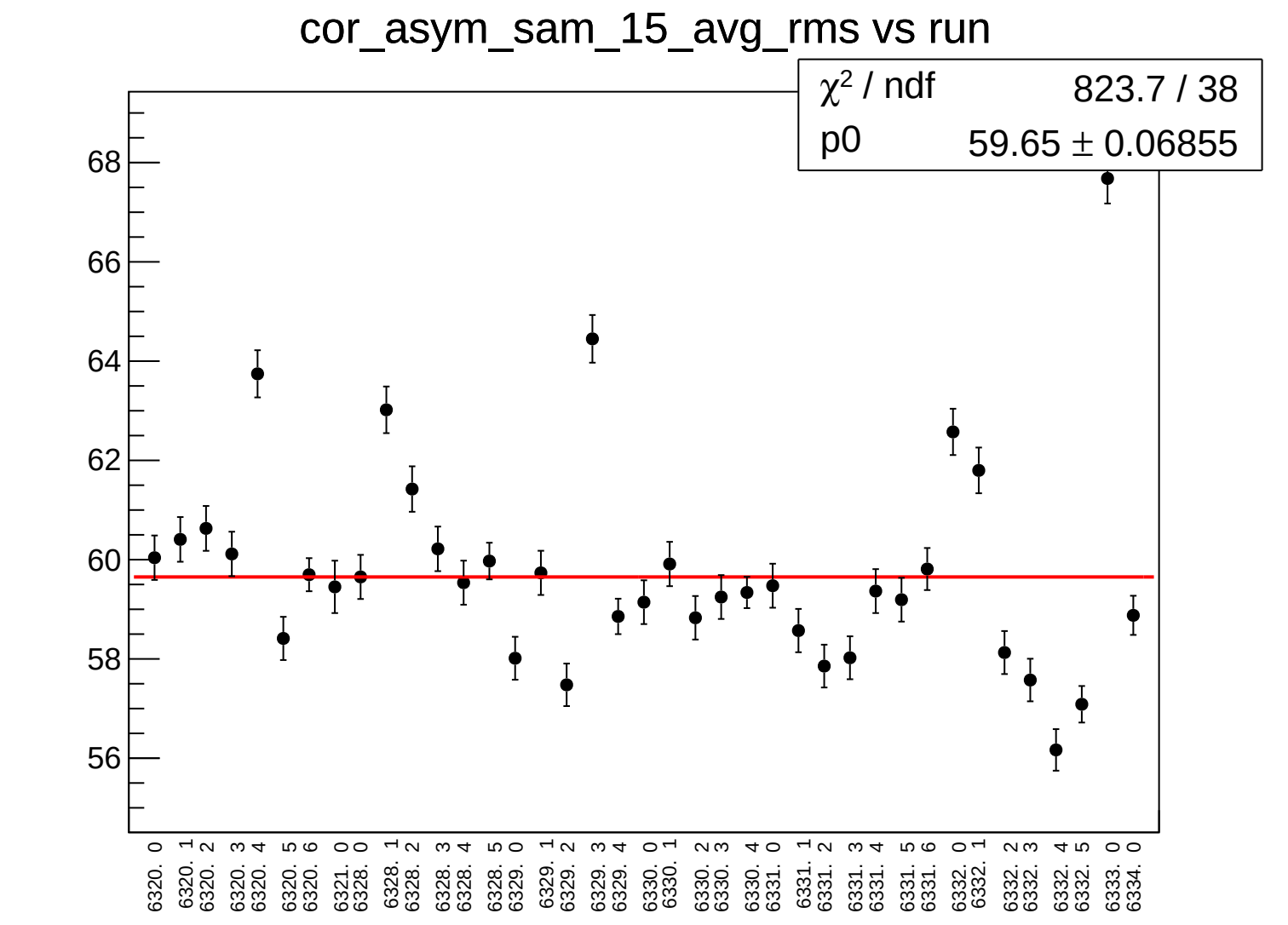

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 31.19 / 38
p0 −373 ± 549.9
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 470.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

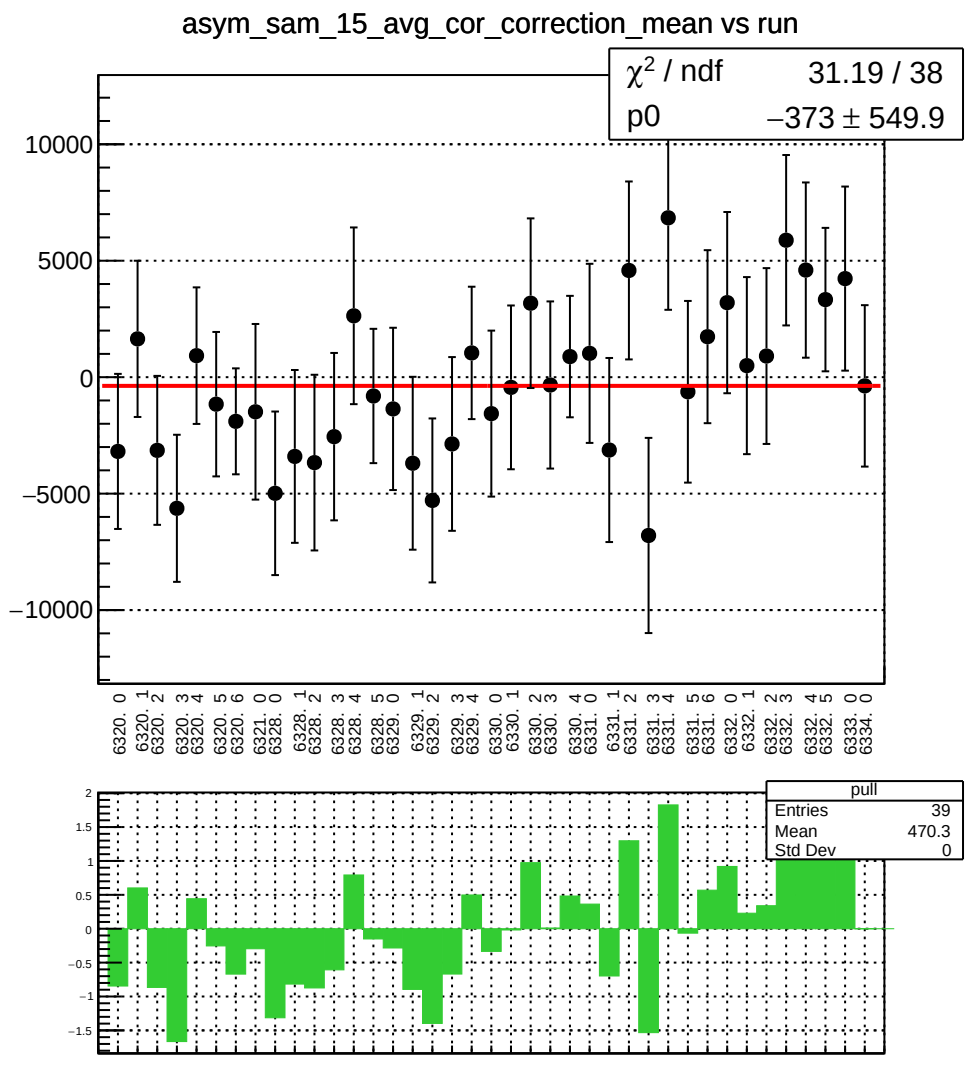

pull1D
Entries 39
Mean 0.01273
Std Dev 0.8942
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

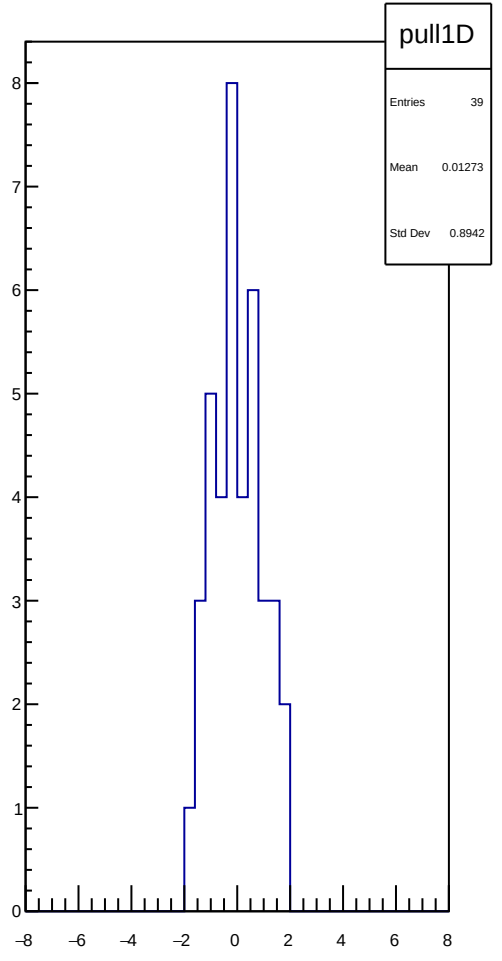

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5214 / 38
p0 337.4 ± 0.3889
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

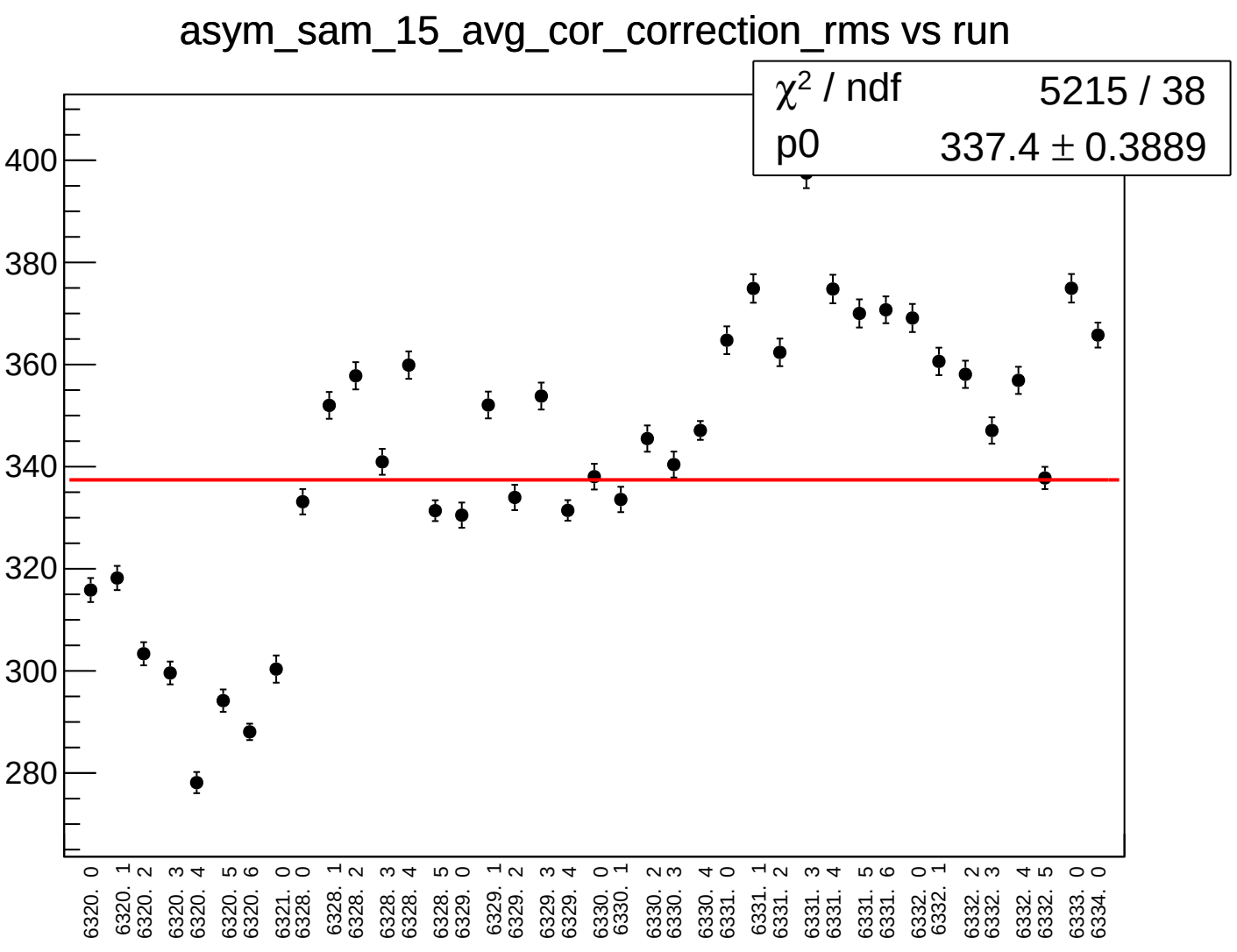

cor_asym_sam_15_avg_mean vs run
χ² / ndf 41.32 / 38
p0 124.7 ± 96.94
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 16.46
Std Dev 20.27
3
2
1
0
−1
−2

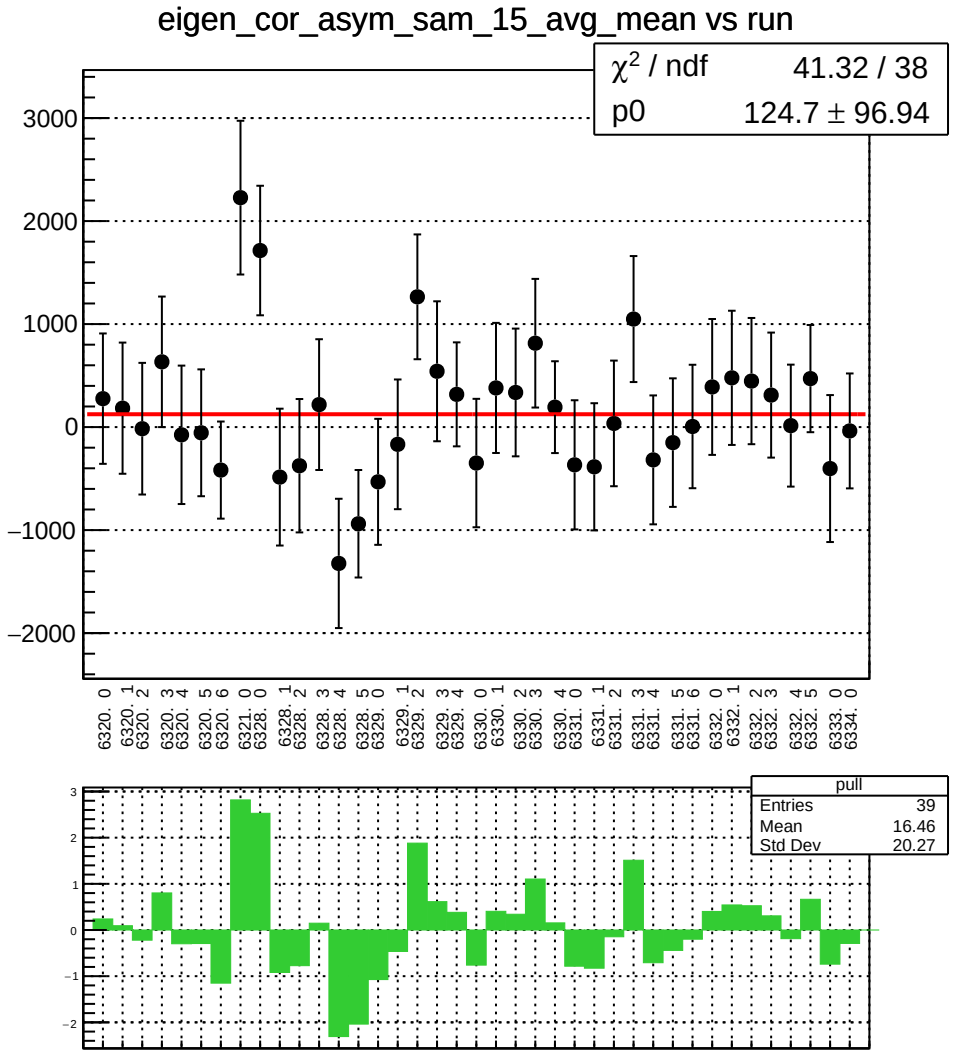

pull1D
Entries 39
Mean 0.02171
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

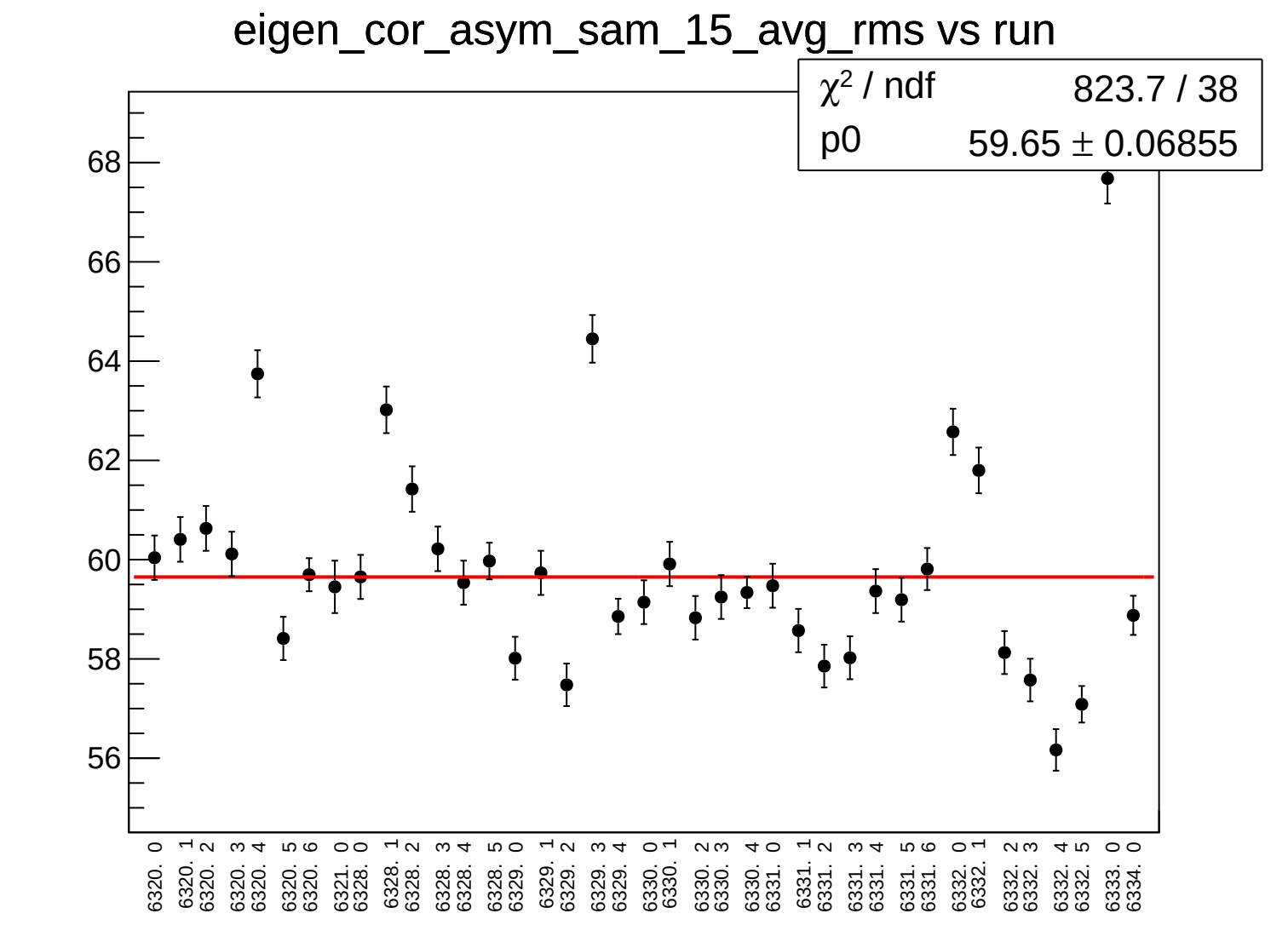

cor_asym_sam_15_avg_rms vs run
χ² / ndf 823.7 / 38
p0 59.65 ± 0.06855
68
66
64
62
60
58
56
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

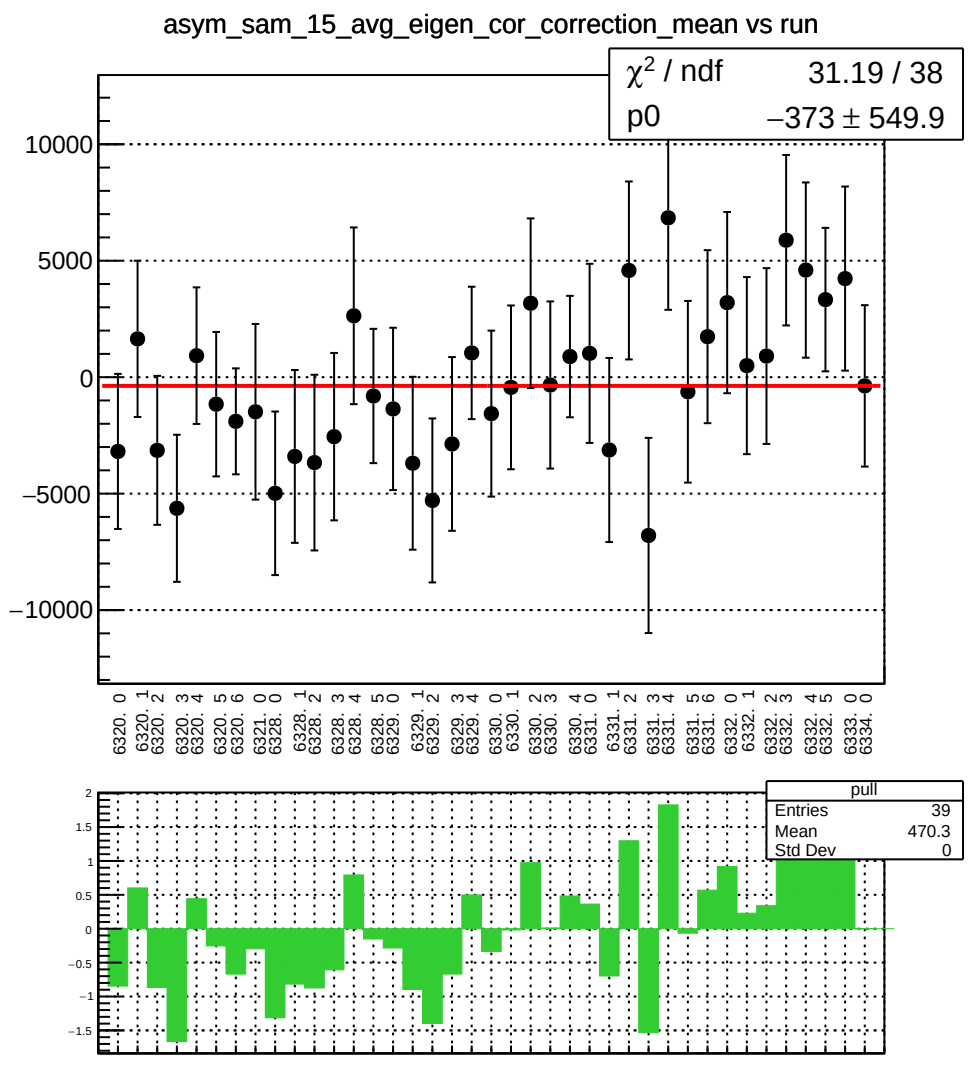

asym_sam_15_avg_cor_correction_mean vs run
χ^2 / ndf 31.19 / 38
p0 −373 ± 549.9
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 470.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

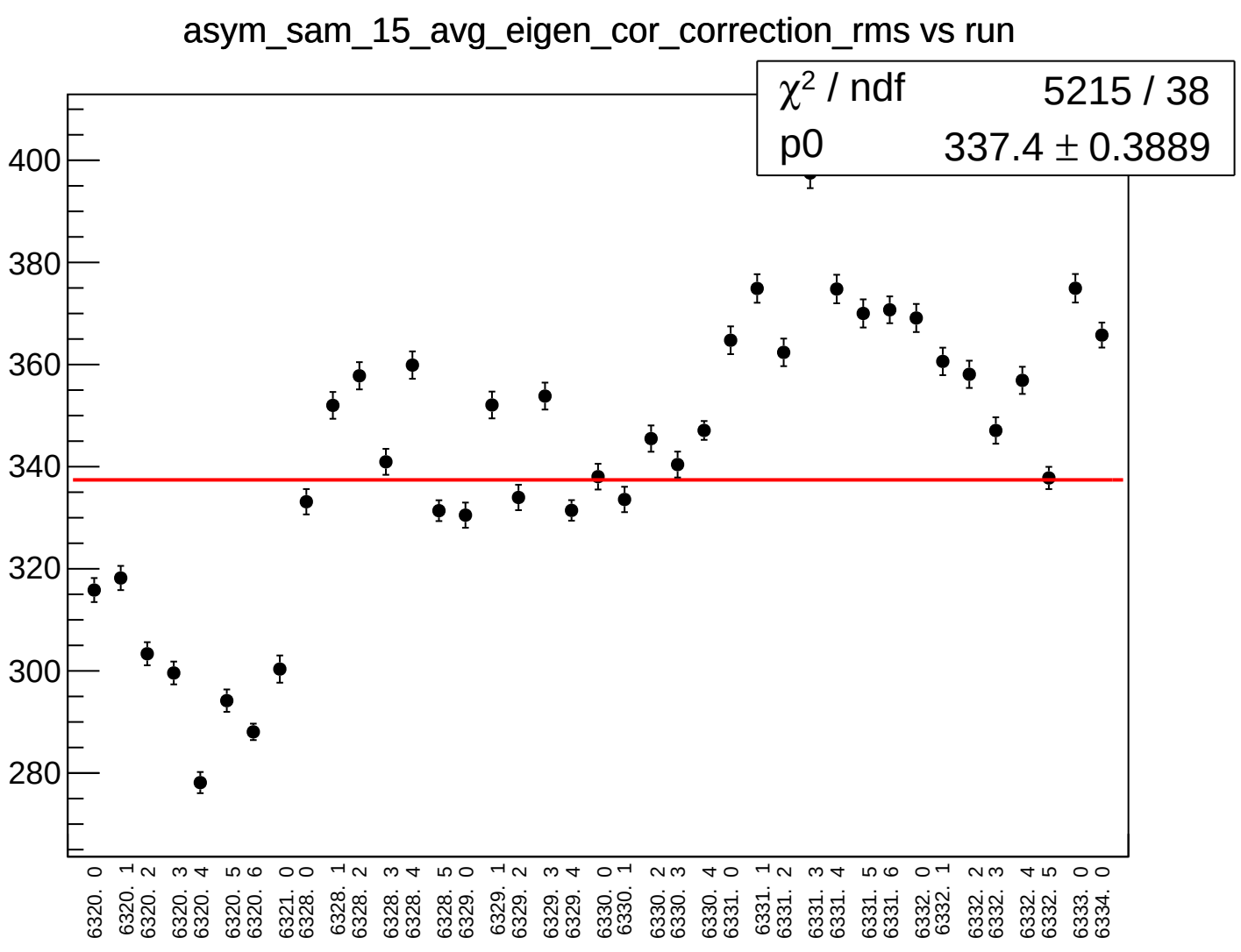

pull1D
Entries 39
Mean 0.01273
Std Dev 0.8942
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

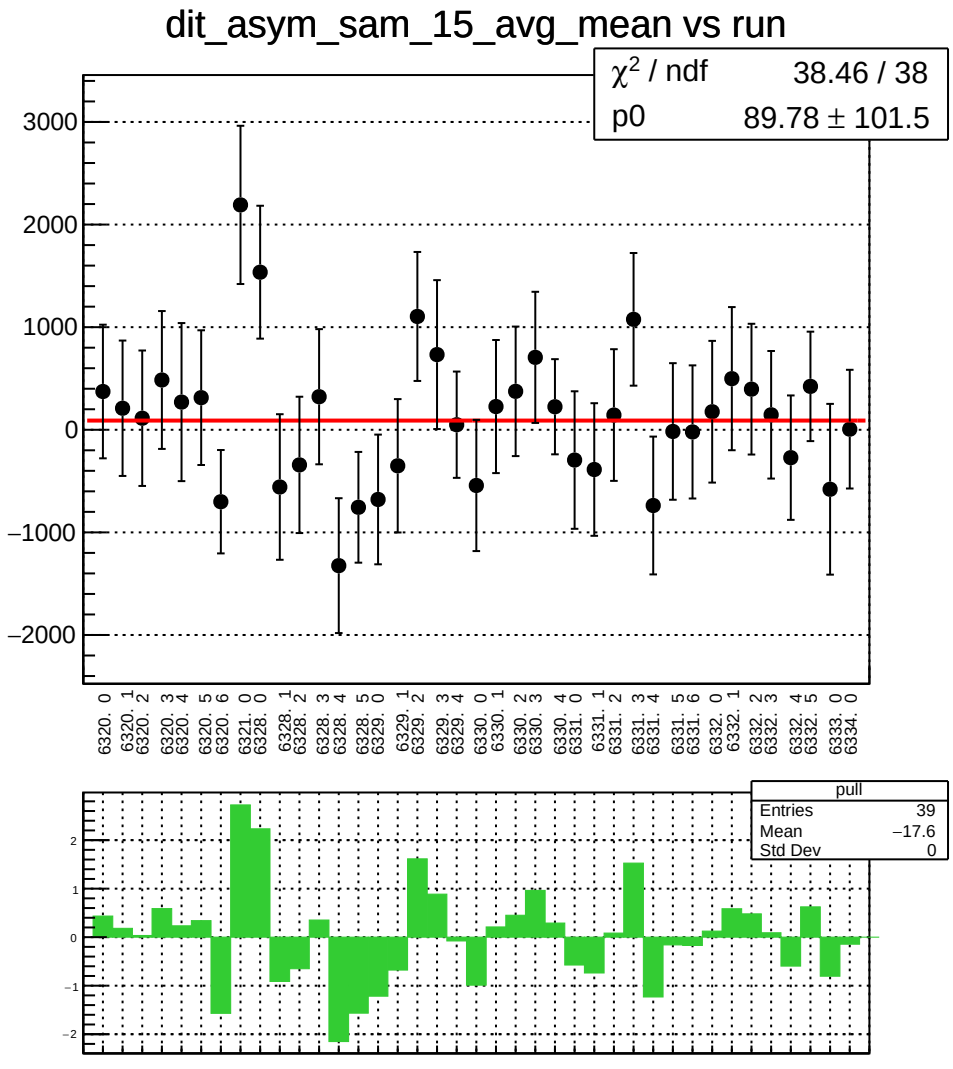

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5215 / 38
p0 337.4 ± 0.3889
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

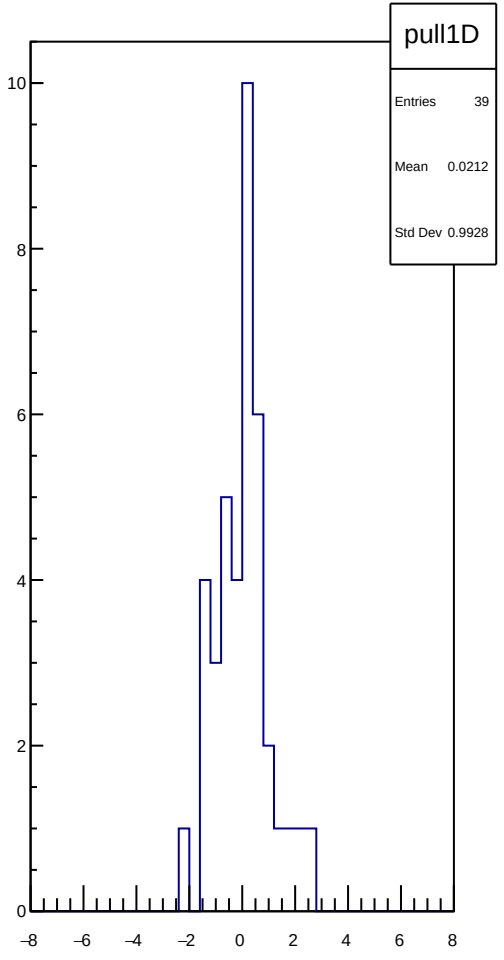

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 41.32 / 38
p0 124.7 ± 96.94
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 16.46
Std Dev 20.27
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02171
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

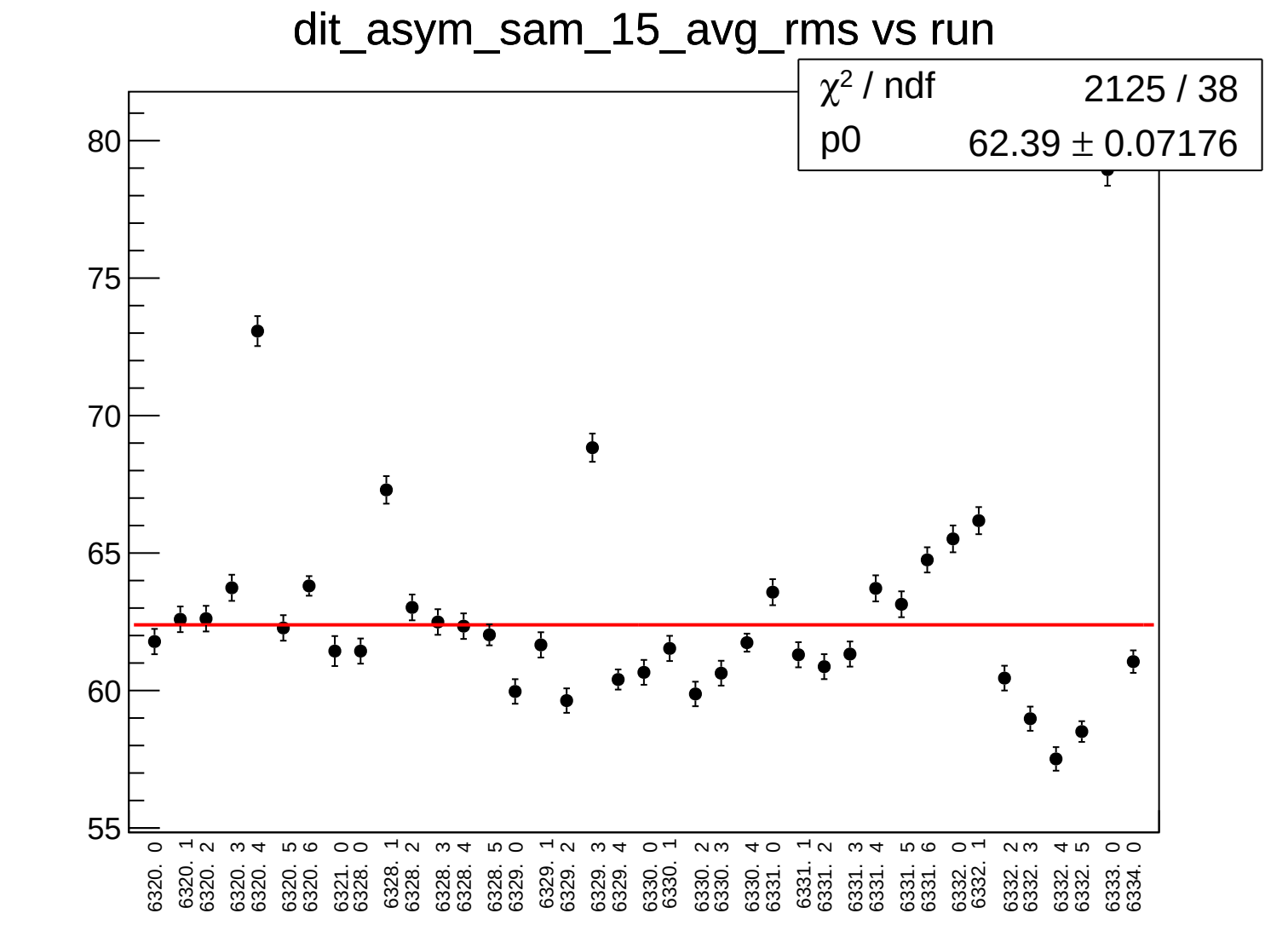

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 823.7 / 38
p0 59.65 ± 0.06855
68
66
64
62
60
58
56
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

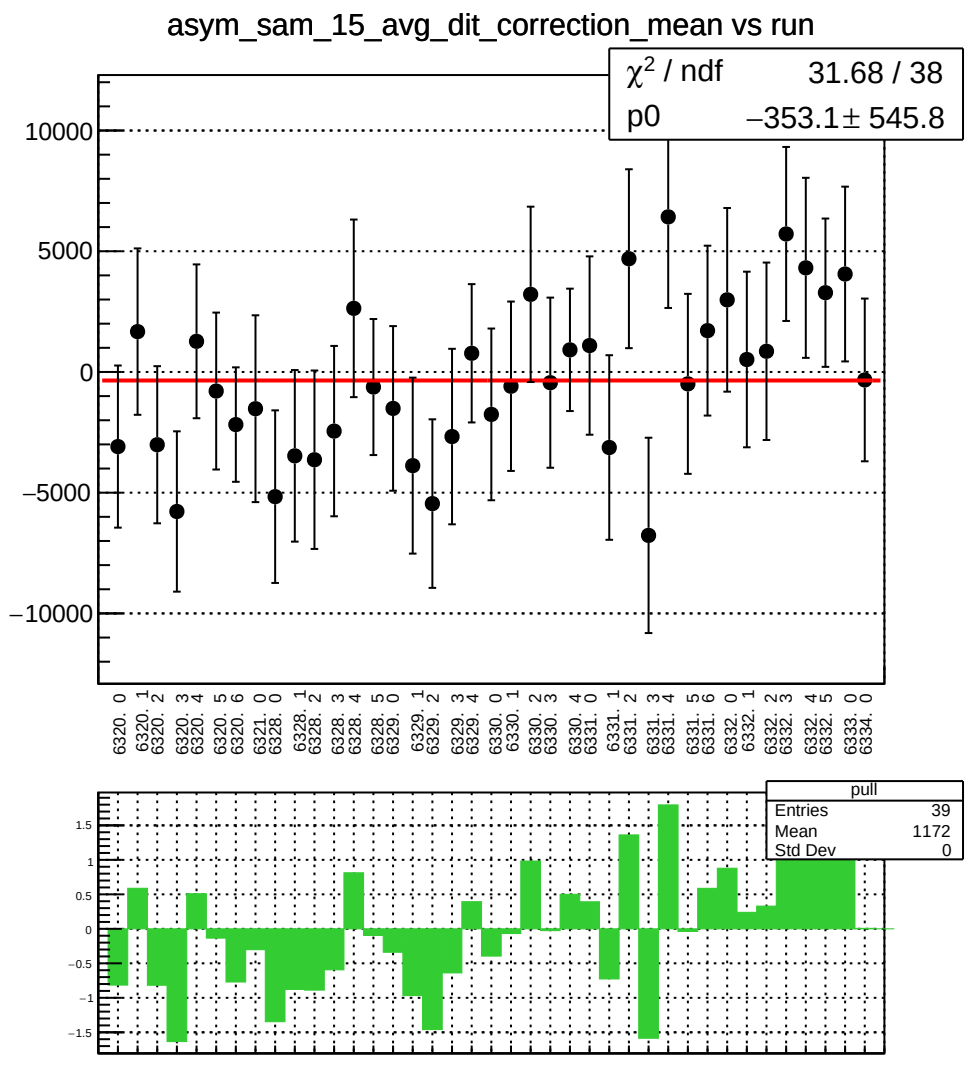

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.19 / 38
p0 −373 ± 549.9
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 470.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01273
Std Dev 0.8942
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

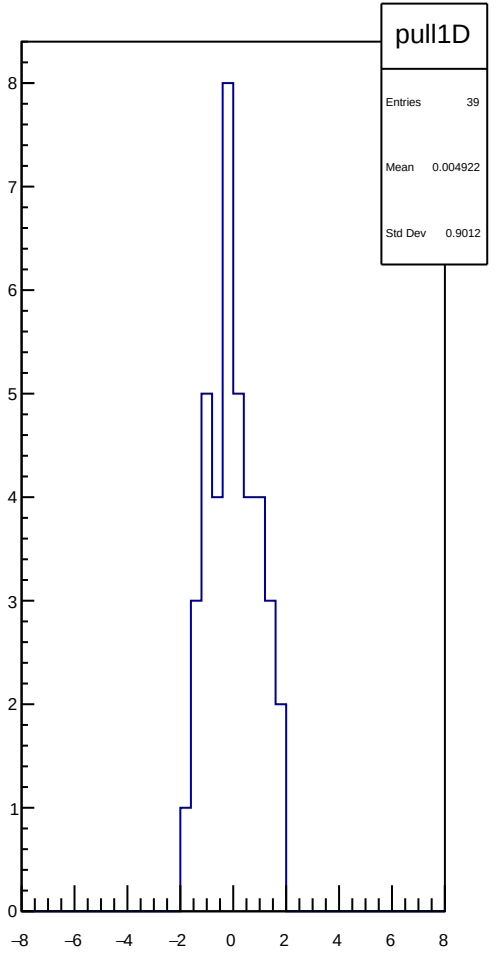

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5215 / 38
p0 337.4 ± 0.3889
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

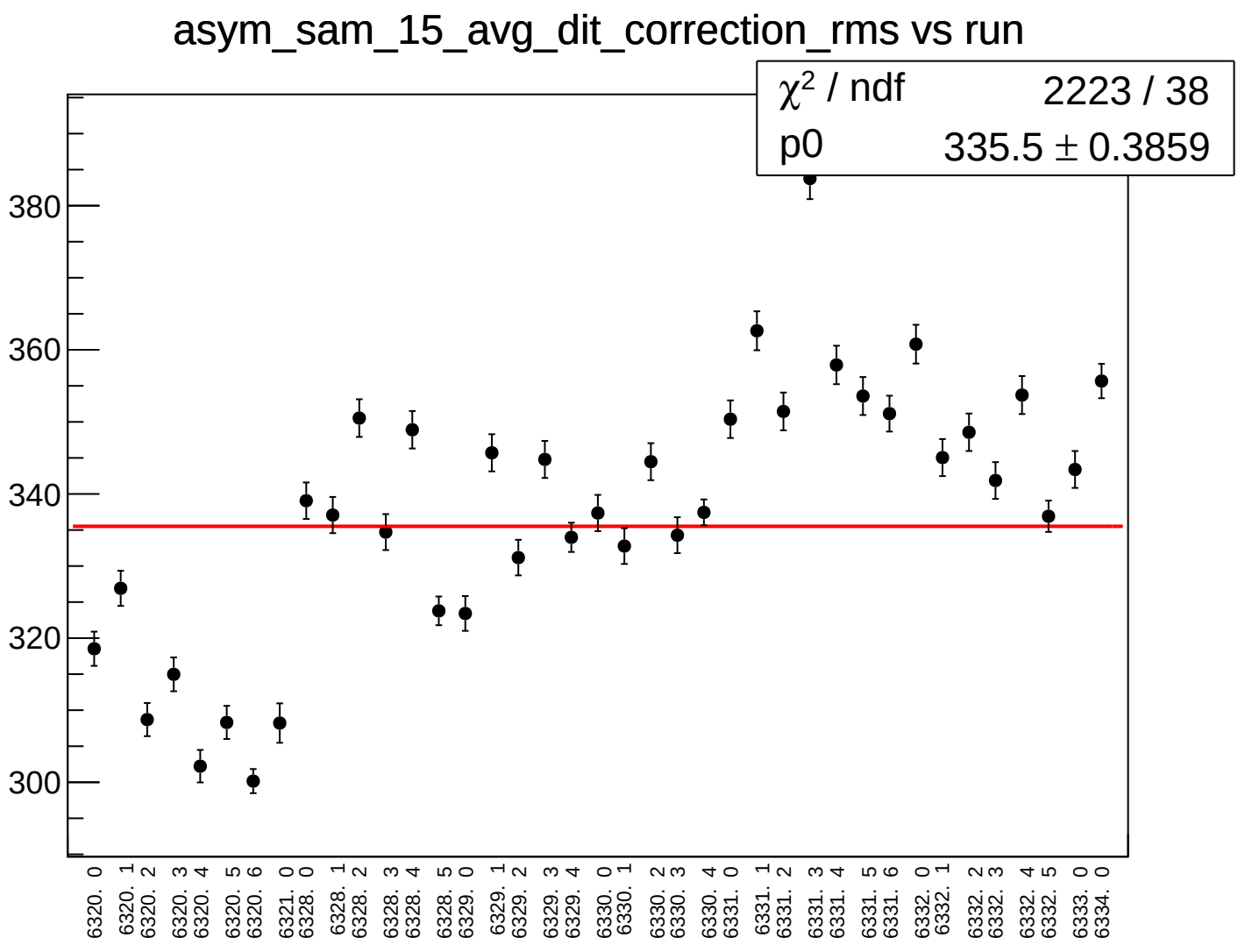

dit_asym_sam_15_avg_mean vs run
χ² / ndf 38.46 / 38
p0 89.78 ± 101.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.6
Std Dev 0
2
1
0
−1
−2

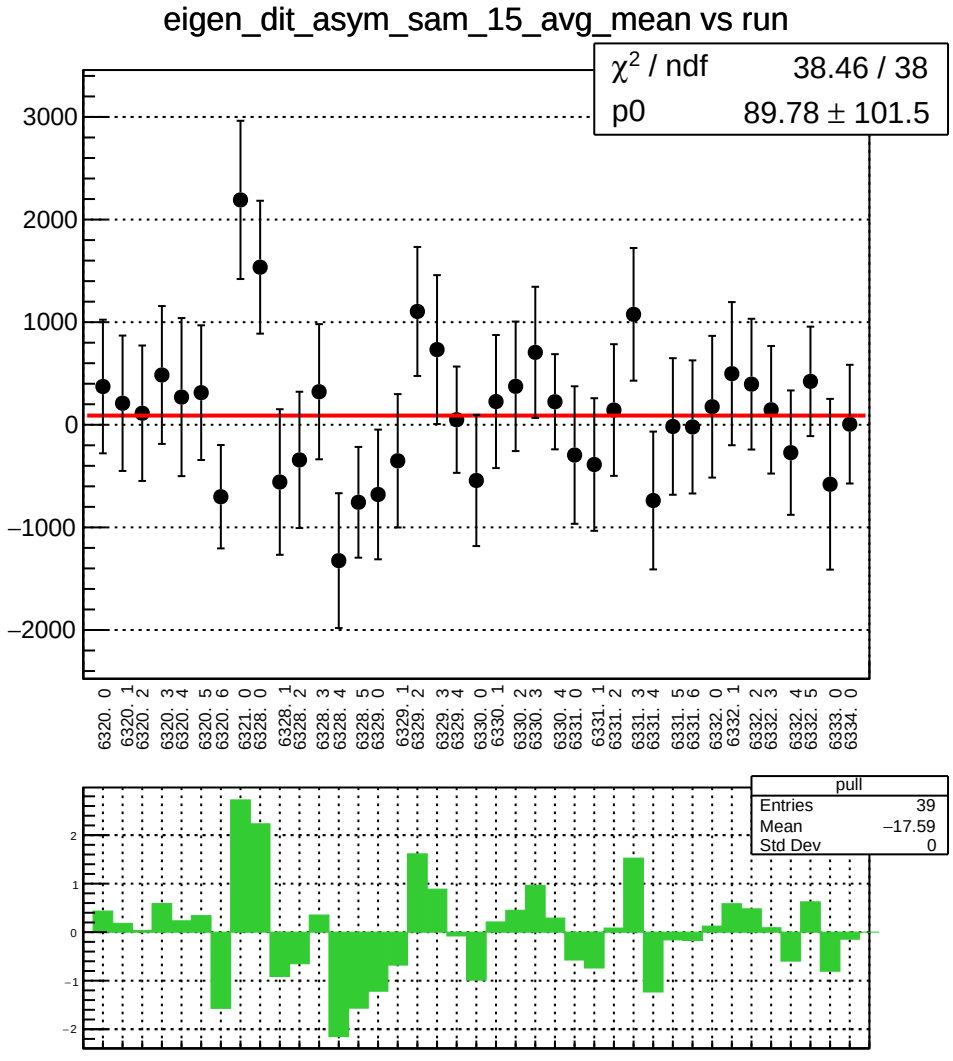

pull1D
Entries 39
Mean 0.0212
Std Dev 0.9928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

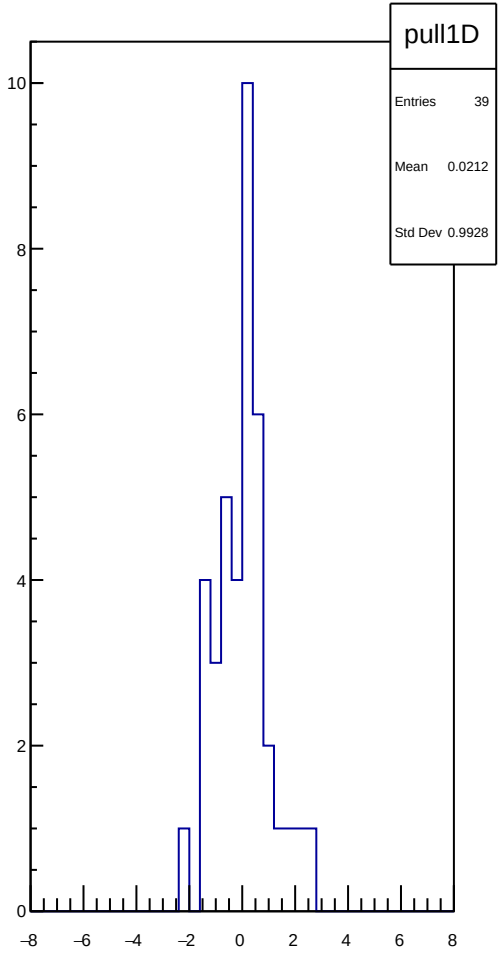

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2125 / 38
p0 62.39 ± 0.07176
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

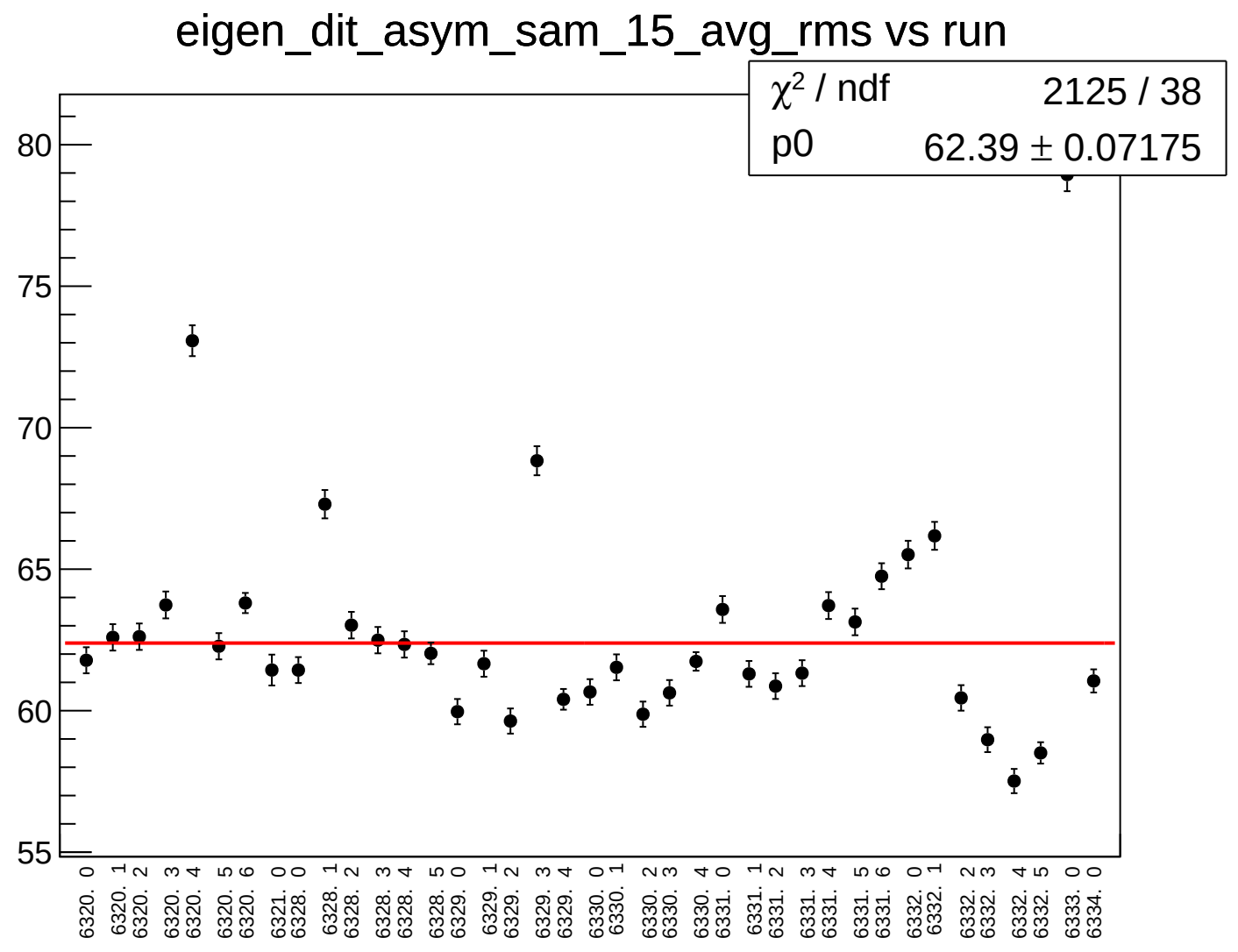

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 31.68 / 38
p0 −353.1 ± 545.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1172
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

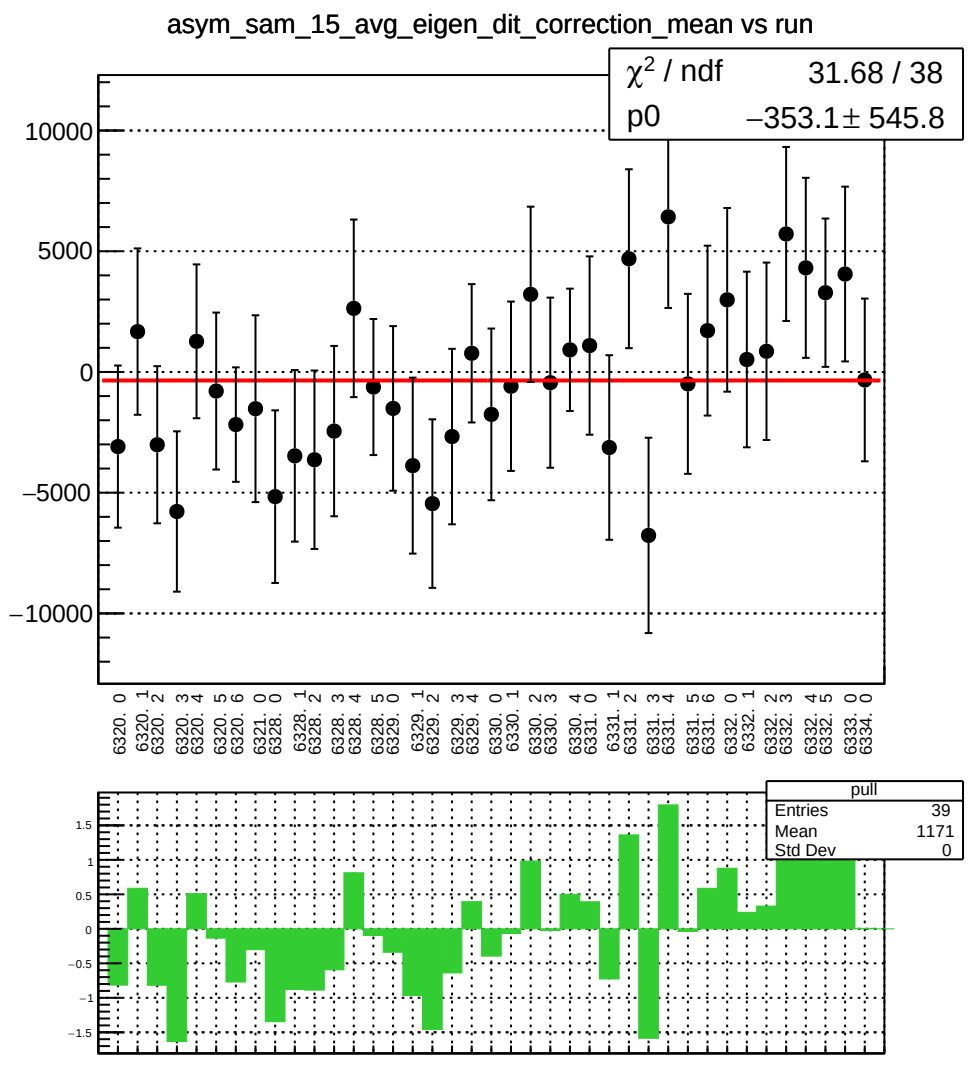

pull1D
Entries 39
Mean 0.004922
Std Dev 0.9012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

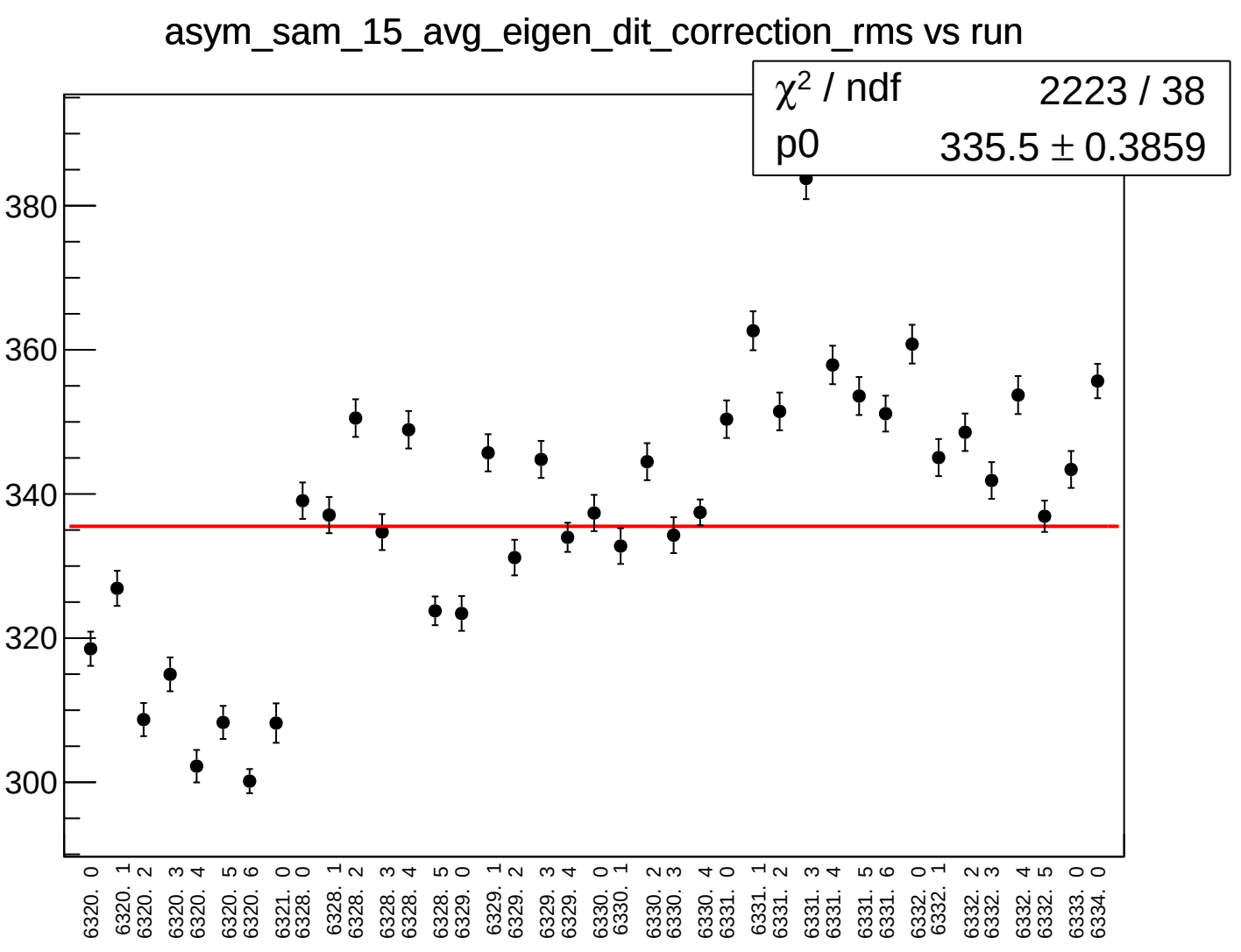

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2223 / 38
p0 335.5 ± 0.3859
380
360
340
320
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 38.46 / 38
p0 89.78 ± 101.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.59
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.0212
Std Dev 0.9928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2125 / 38
p0 62.39 ± 0.07175
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.68 / 38
p0 −353.1 ± 545.8
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1171
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.004923
Std Dev 0.9012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2223 / 38
p0 335.5 ± 0.3859
380
360
340
320
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
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6331. 0
6331. 1
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6331. 4
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6332. 0
6332. 1
6332. 2
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6332. 4
6332. 5
6333. 0
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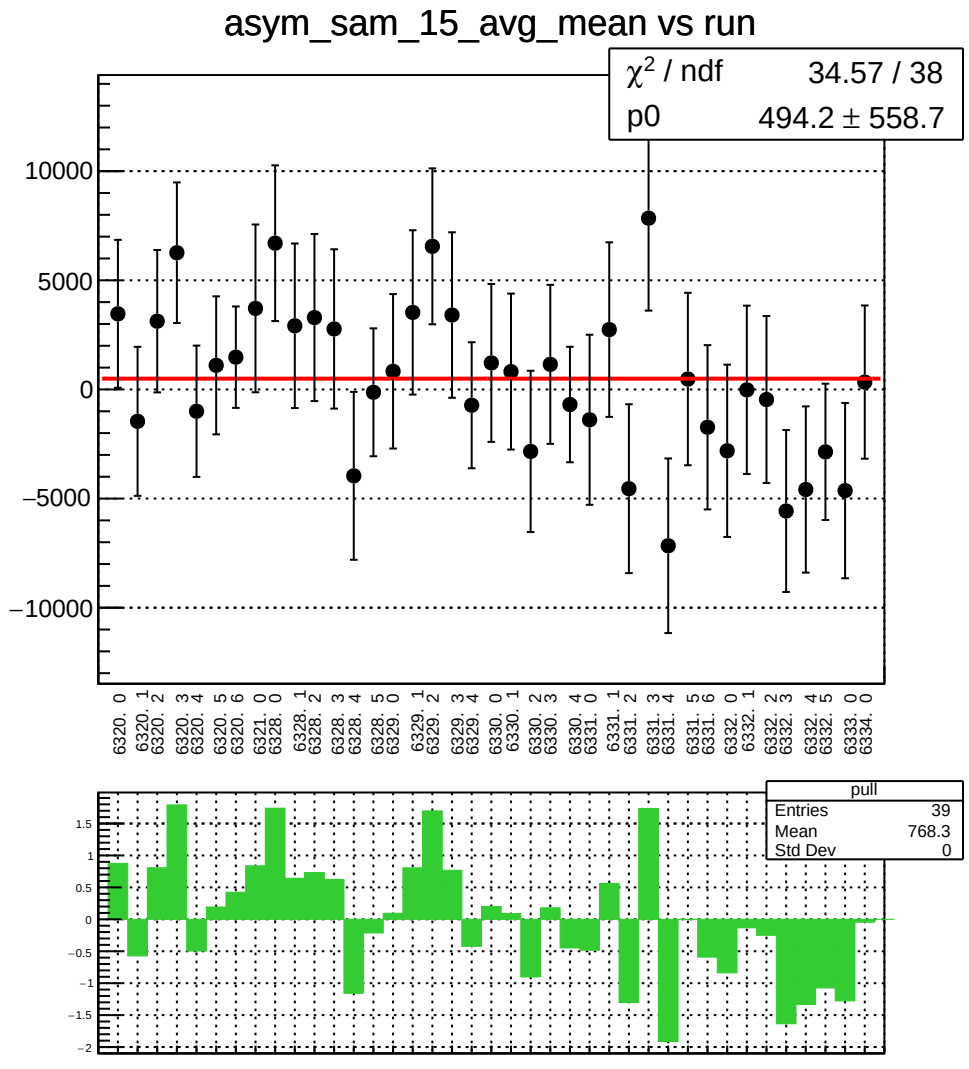
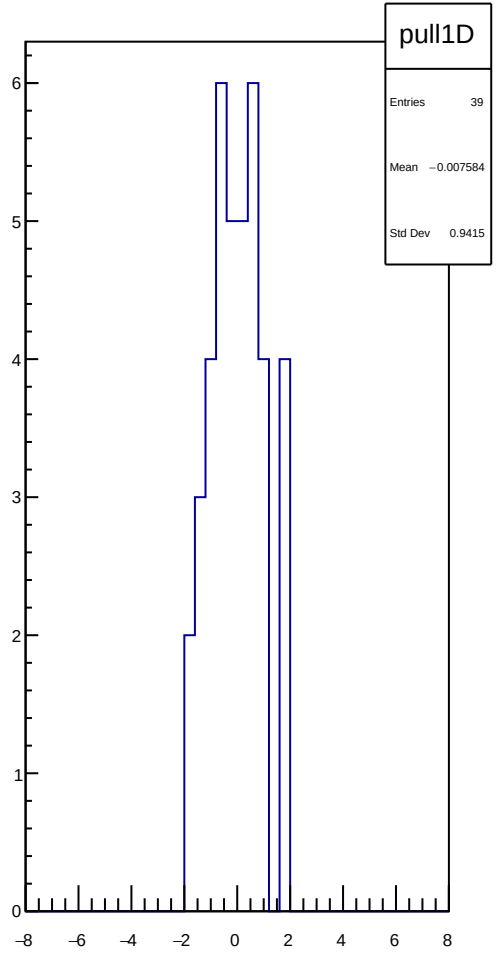
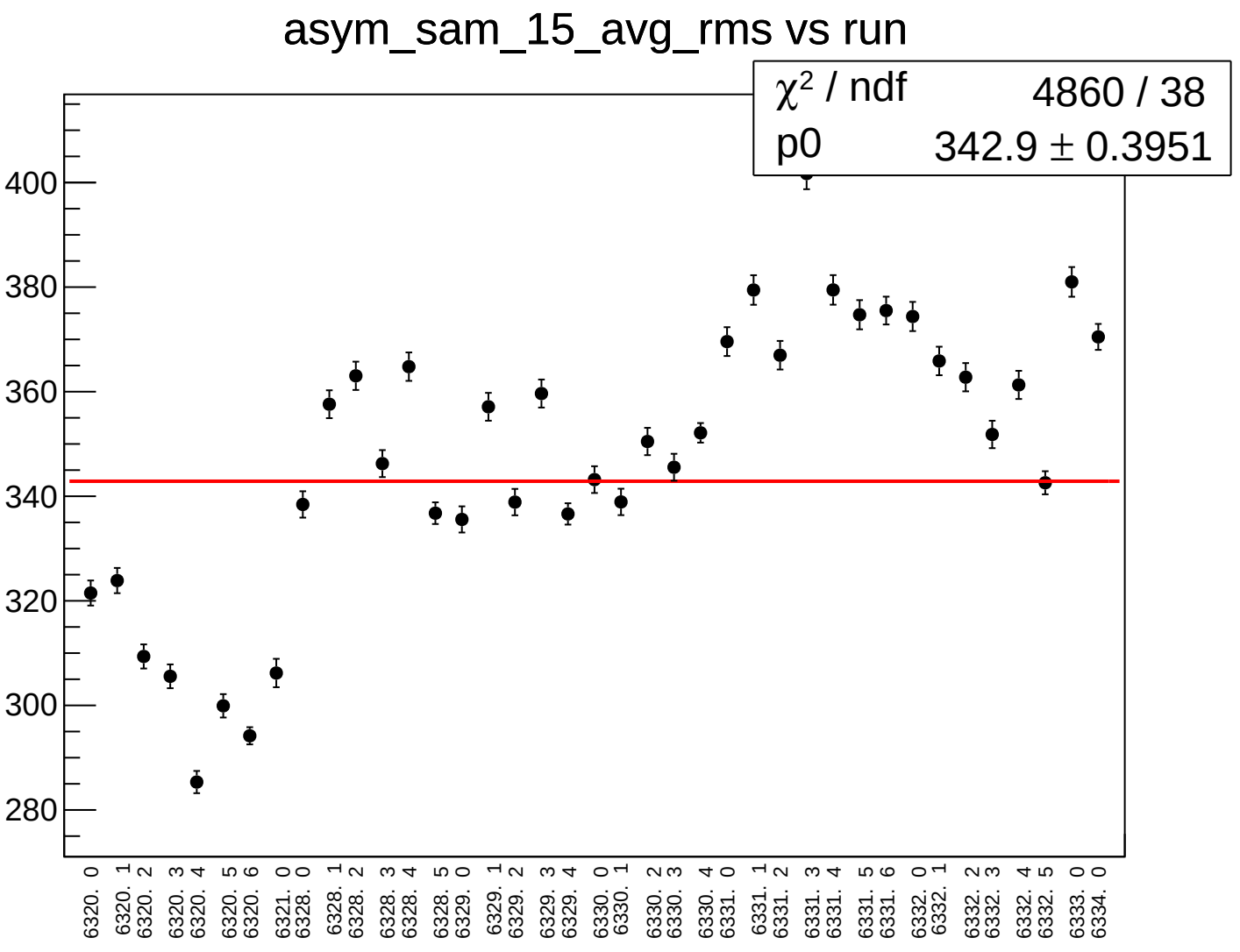
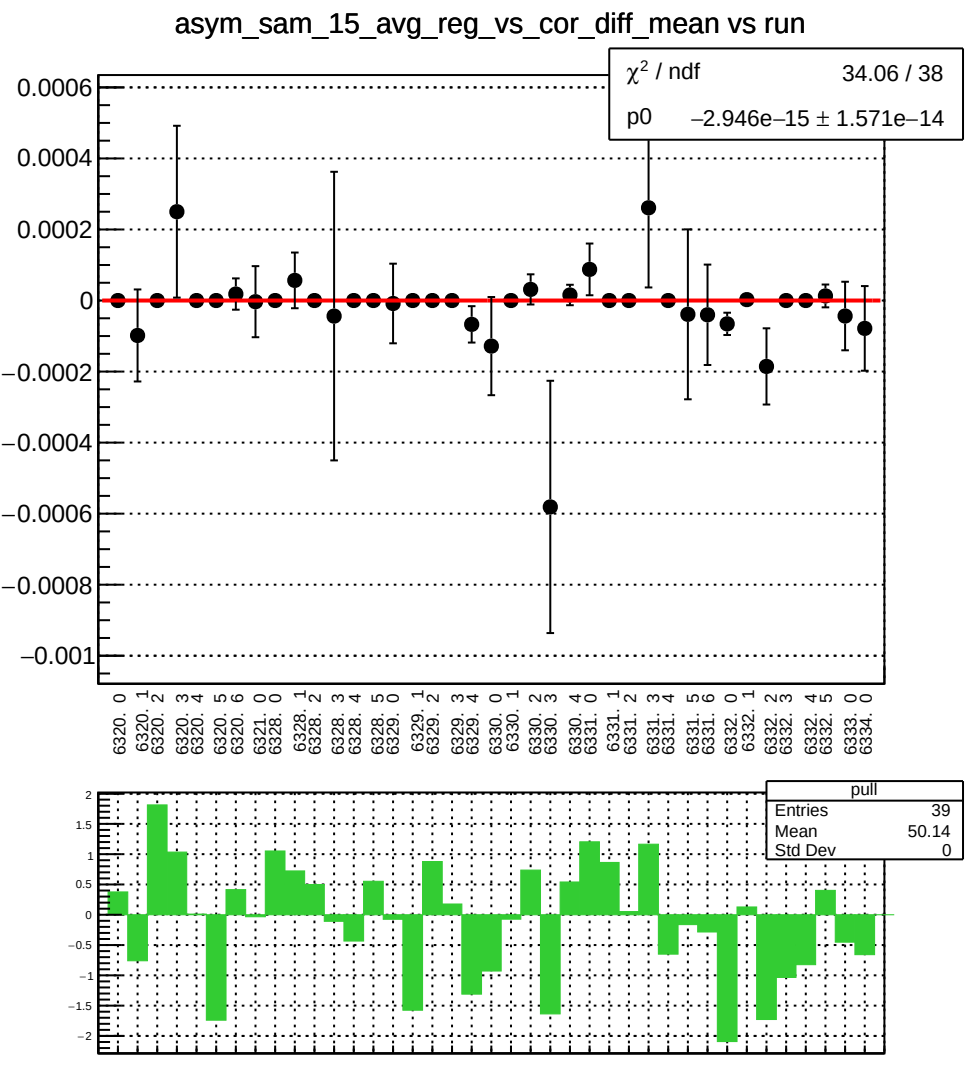
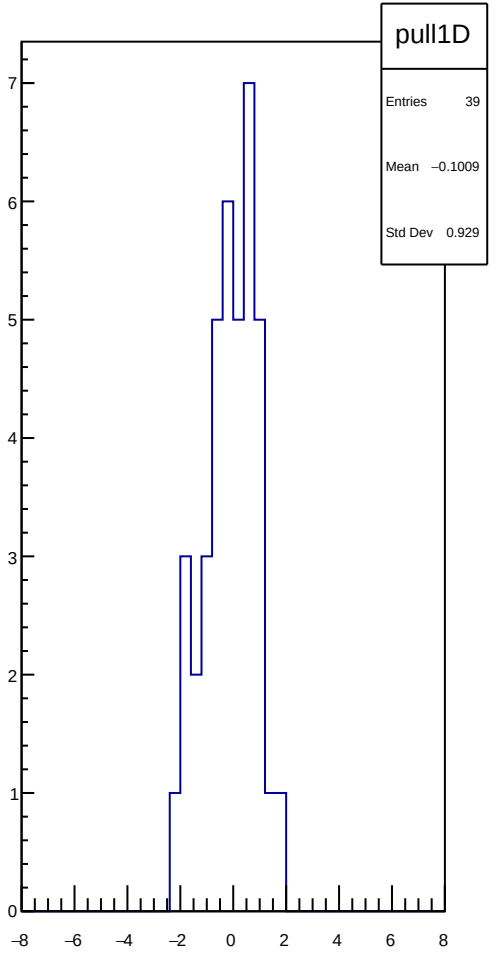
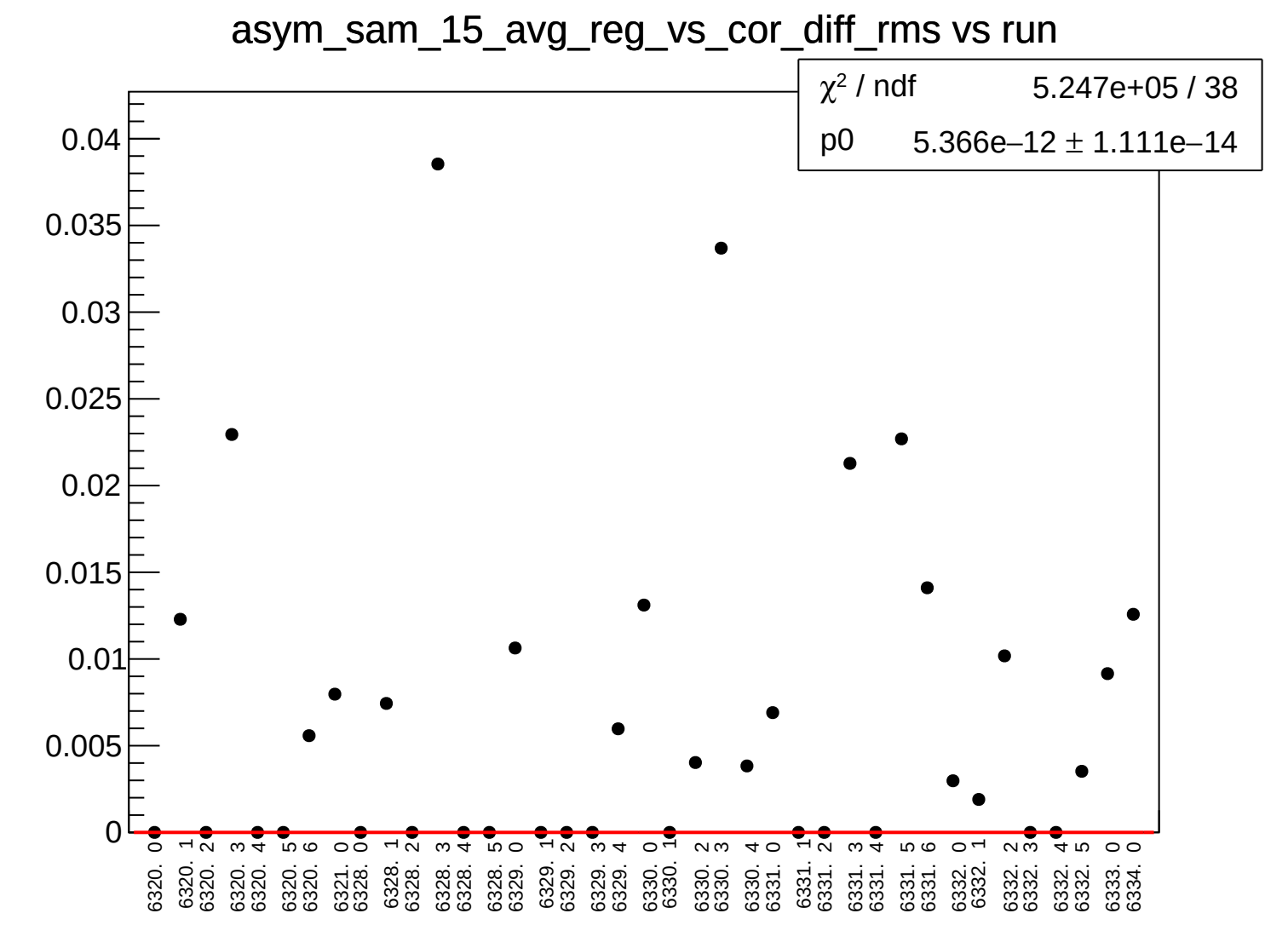

asym_sam_15_avg_mean vs run
χ² / ndf 34.57 / 38
p0 494.2 ± 558.7
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 768.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

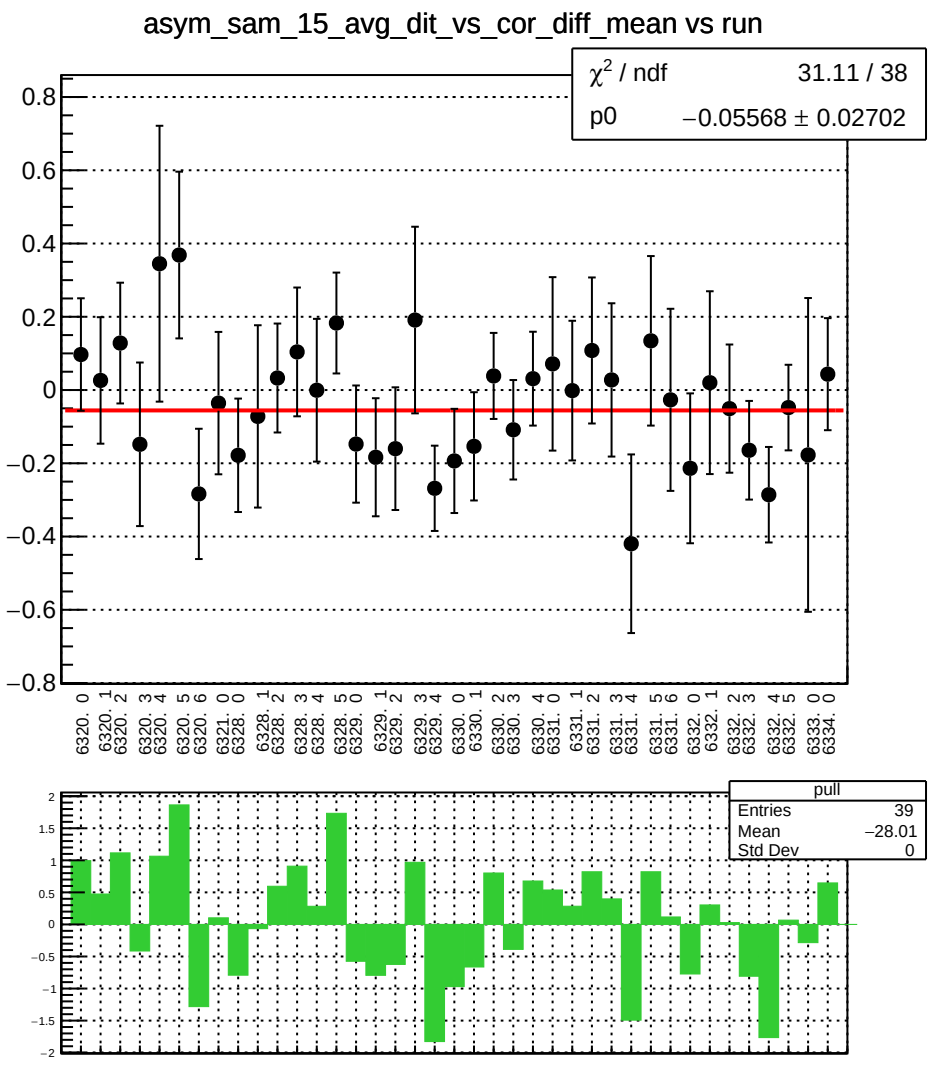

pull1D
Entries 39
Mean −0.007584
Std Dev 0.9415
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

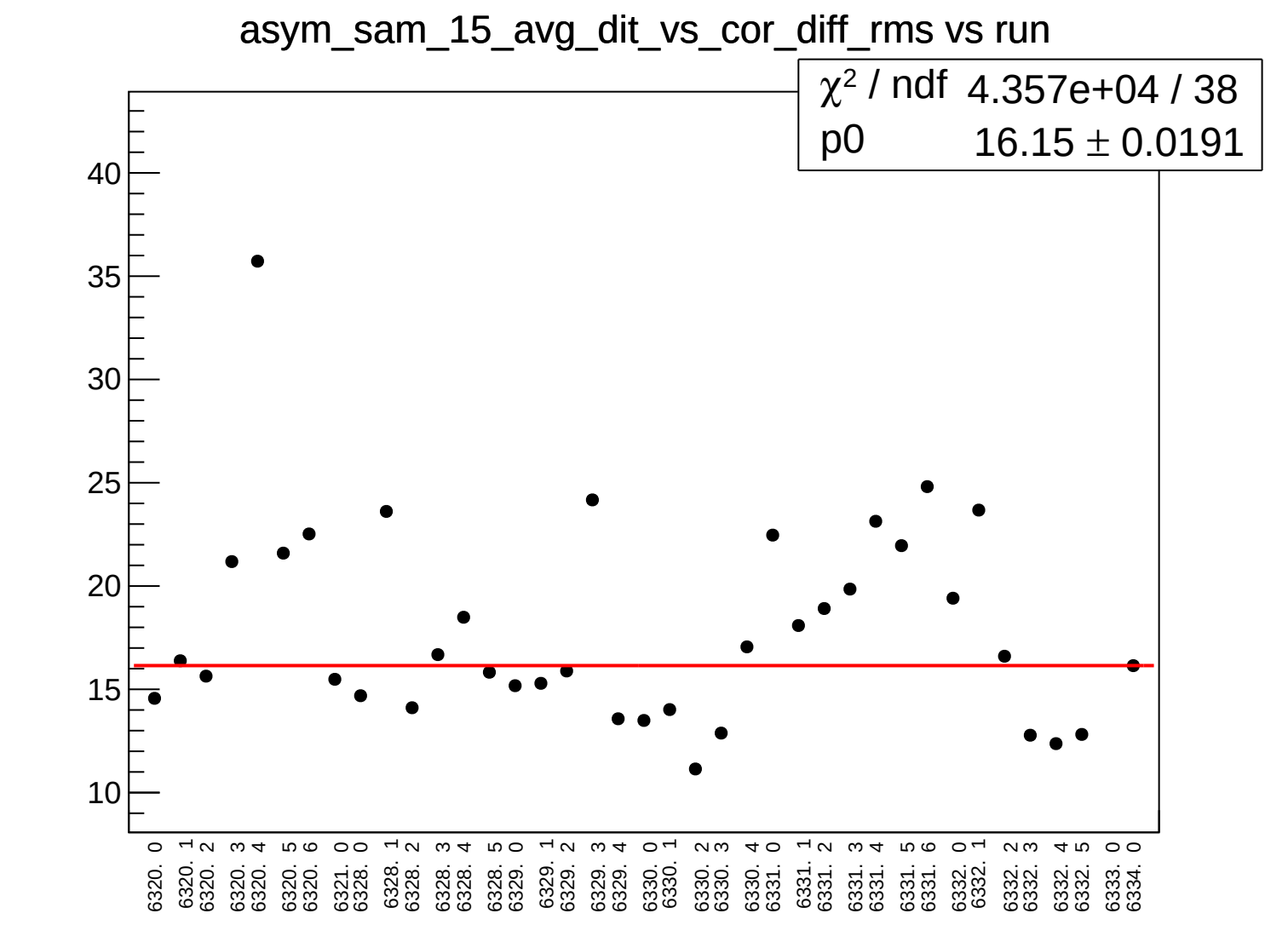

asym_sam_15_avg_rms vs run
χ² / ndf 4860 / 38
p0 342.9 ± 0.3951
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.06 / 38
p0 −2.946e−15 ± 1.571e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

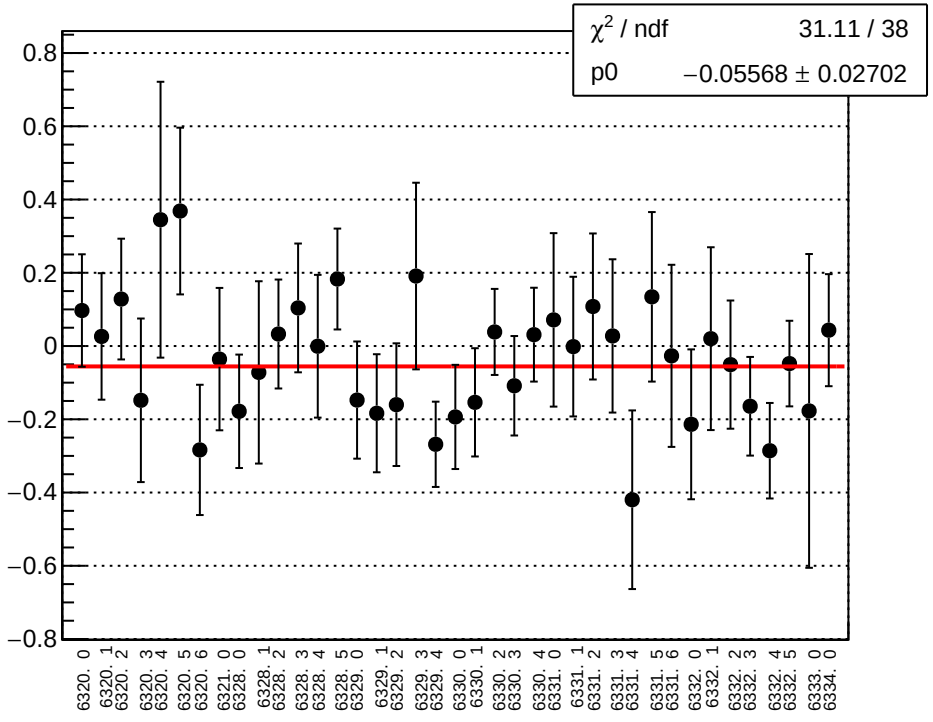

pull1D
Entries 39
Mean −0.1009
Std Dev 0.929
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

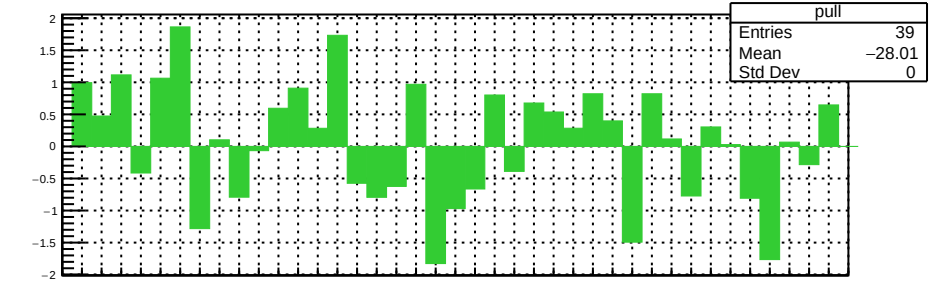

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.247e+05 / 38
p0 5.366e−12 ± 1.111e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

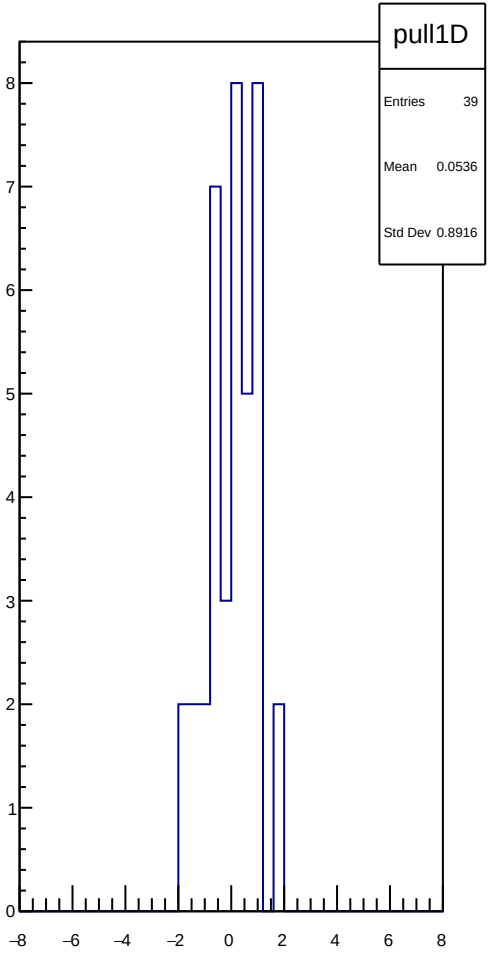

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.11 / 38
p0 −0.05568 ± 0.02702
pull
Entries 39
Mean −28.01
Std Dev 0
pull1D
Entries 39
Mean 0.0536
Std Dev 0.8916

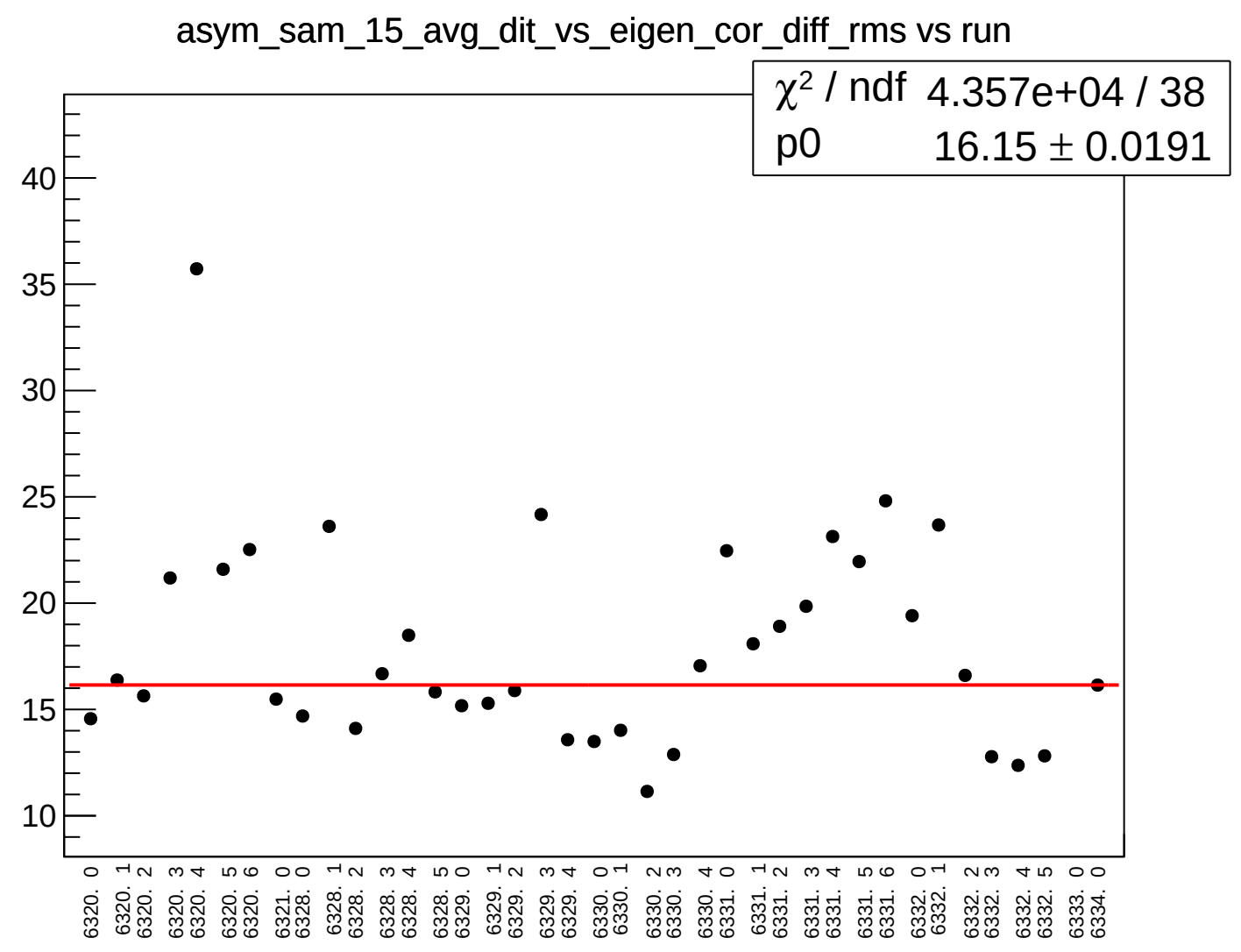

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.357e+04 / 38
p0 16.15 ± 0.0191
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

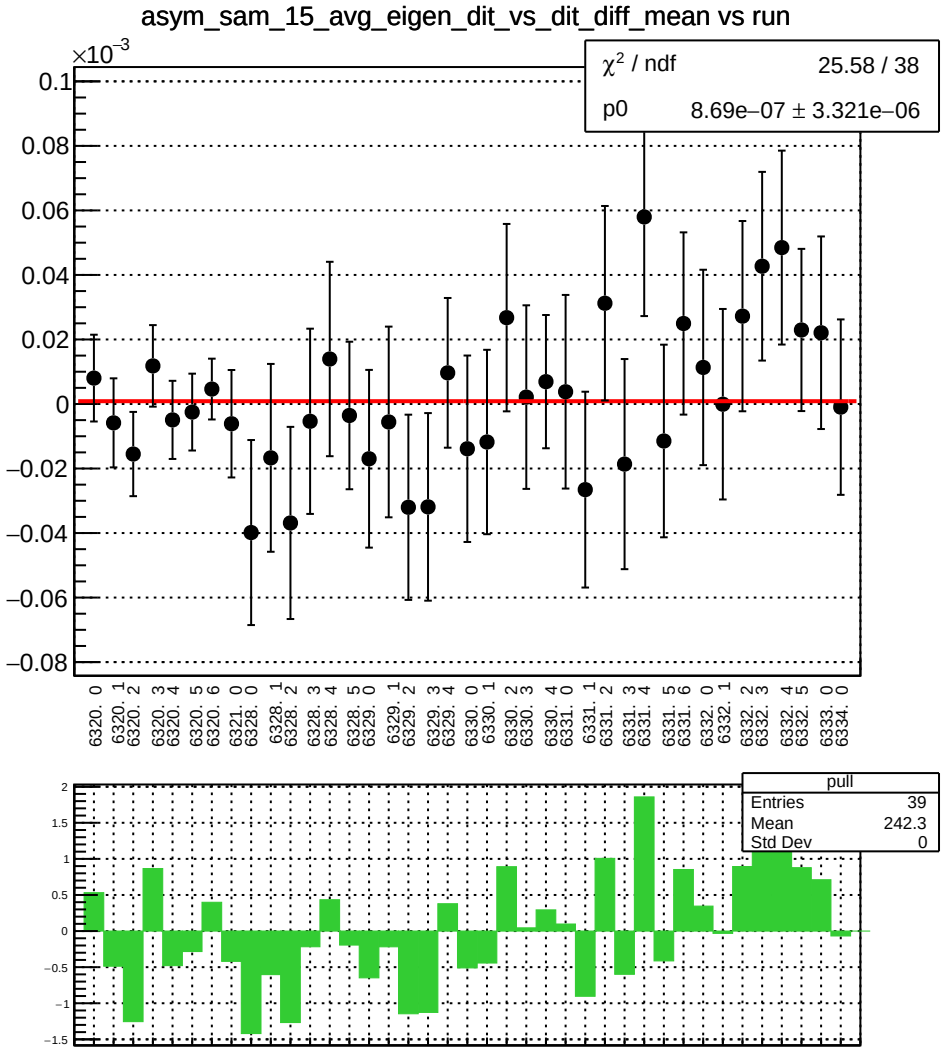
asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run

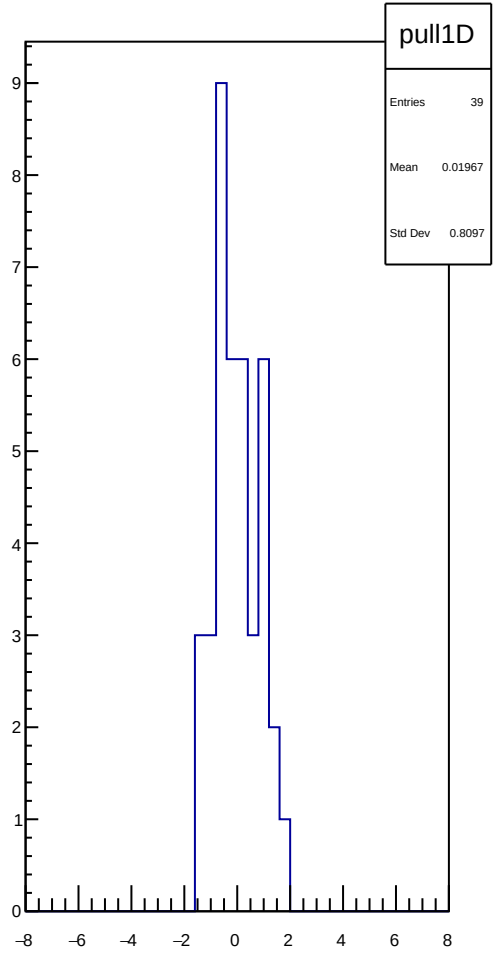


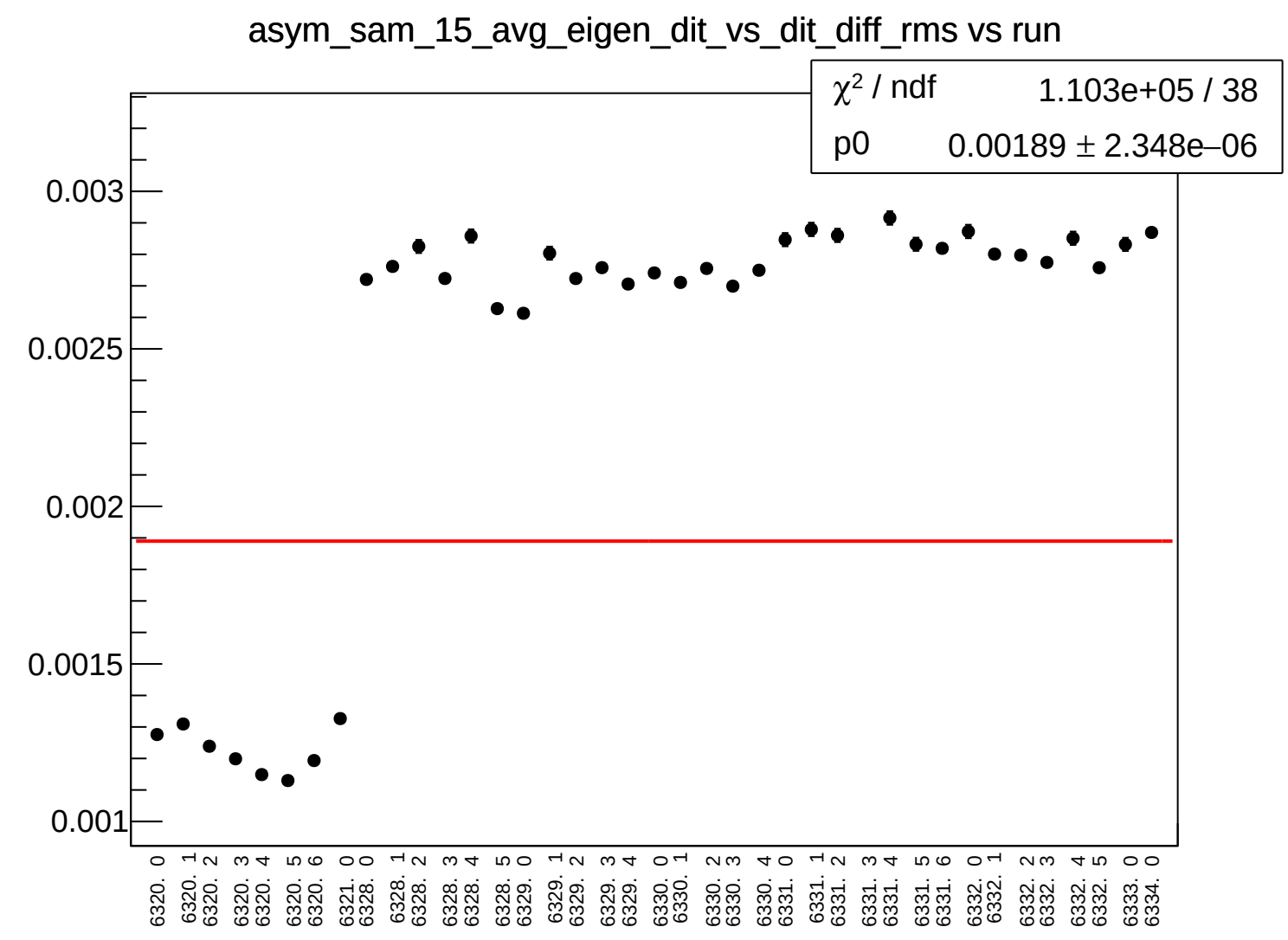




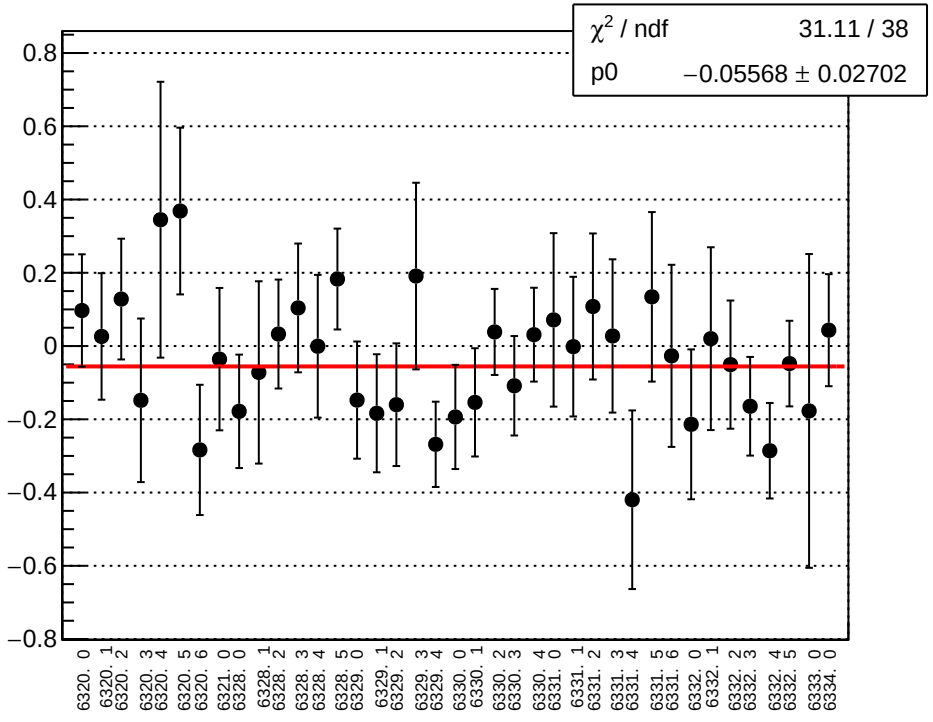

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.357e+04 / 38
p0 16.15 ± 0.0191
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

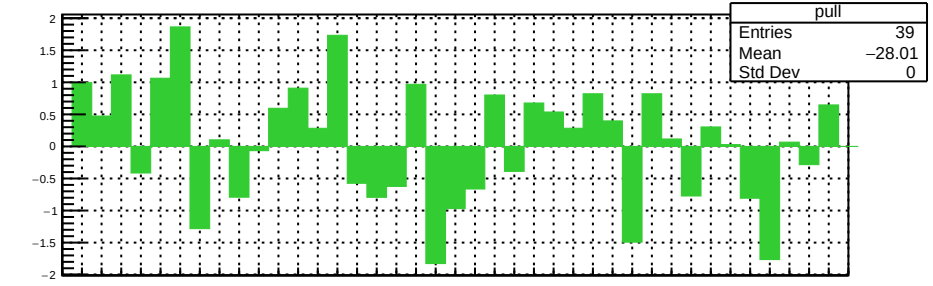

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.58 / 38
p0 8.69e−07 ± 3.321e−06
pull
Entries 39
Mean 242.3
Std Dev 0

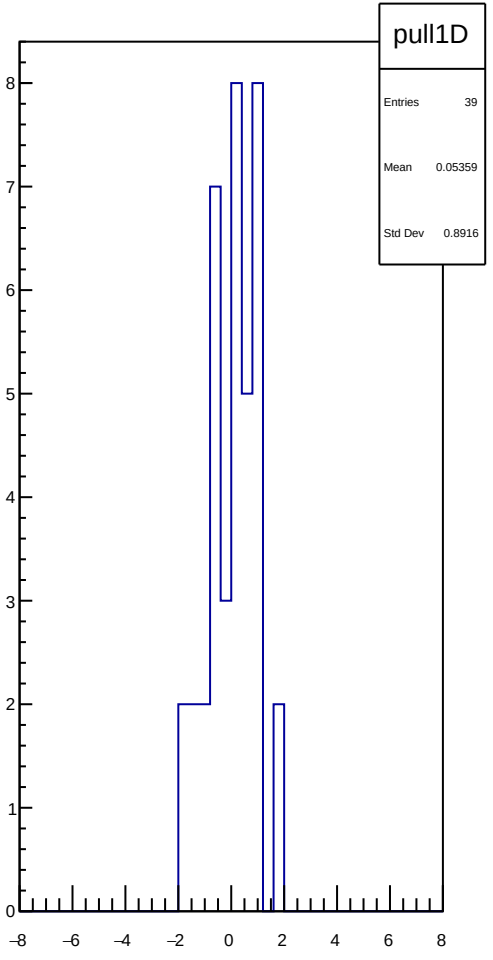

pull1D
Entries 39
Mean 0.01967
Std Dev 0.8097

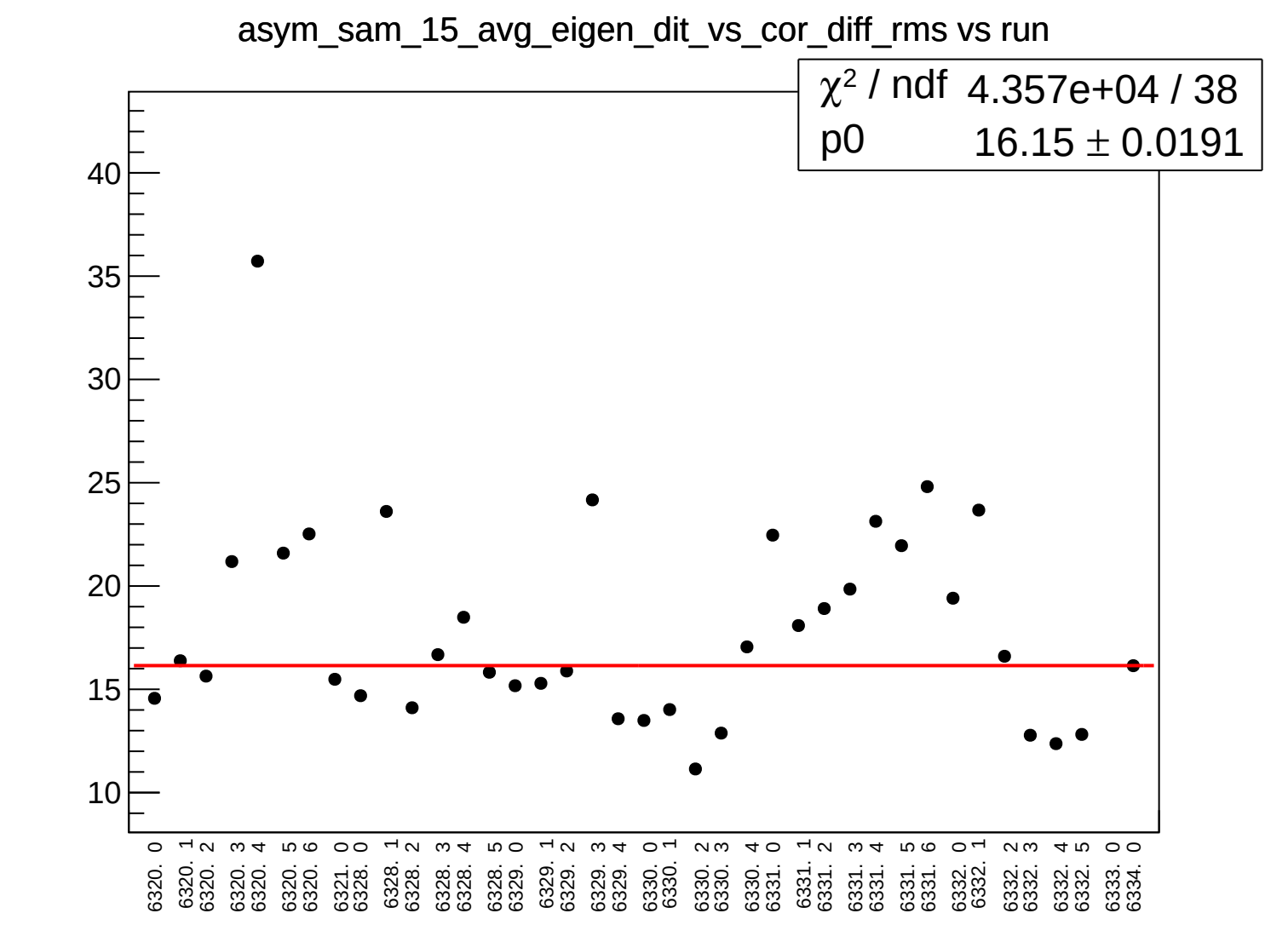

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.103e+05 / 38
p0 0.00189 ± 2.348e–06
0.003
0.0025
0.002
0.0015
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

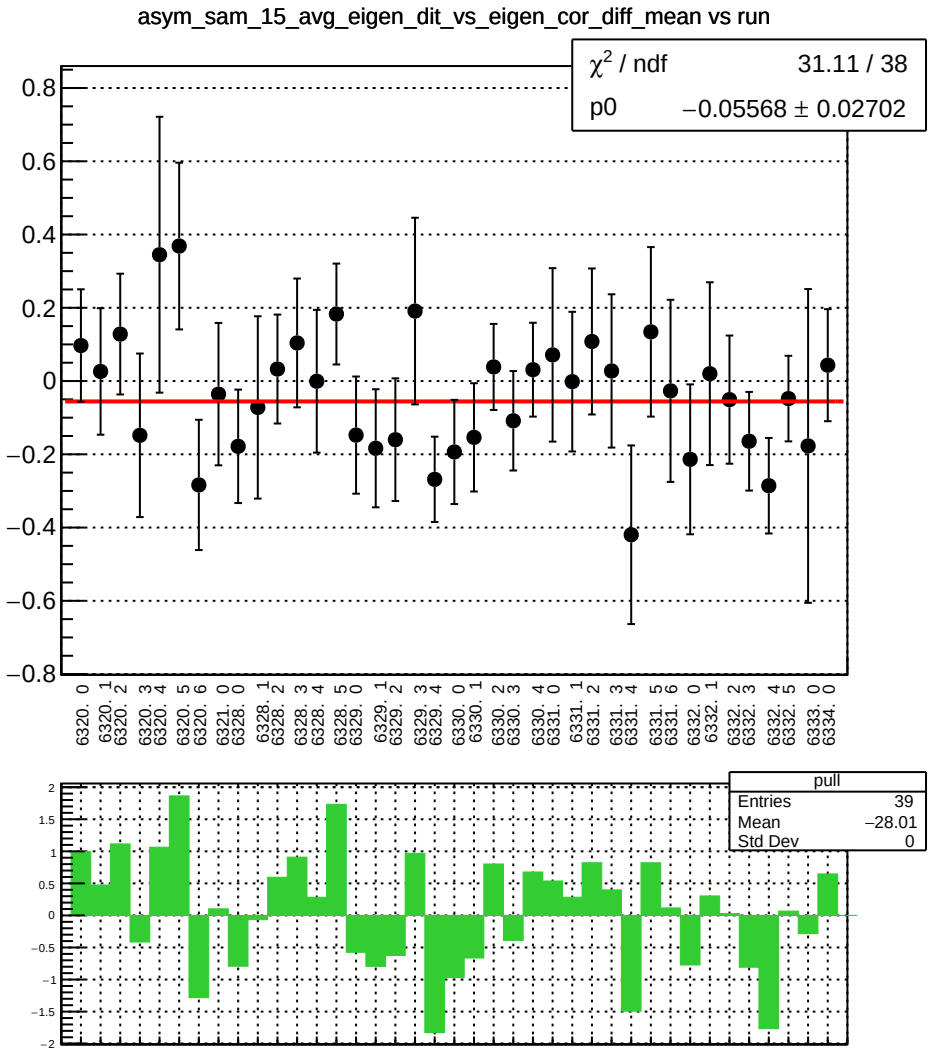
asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run

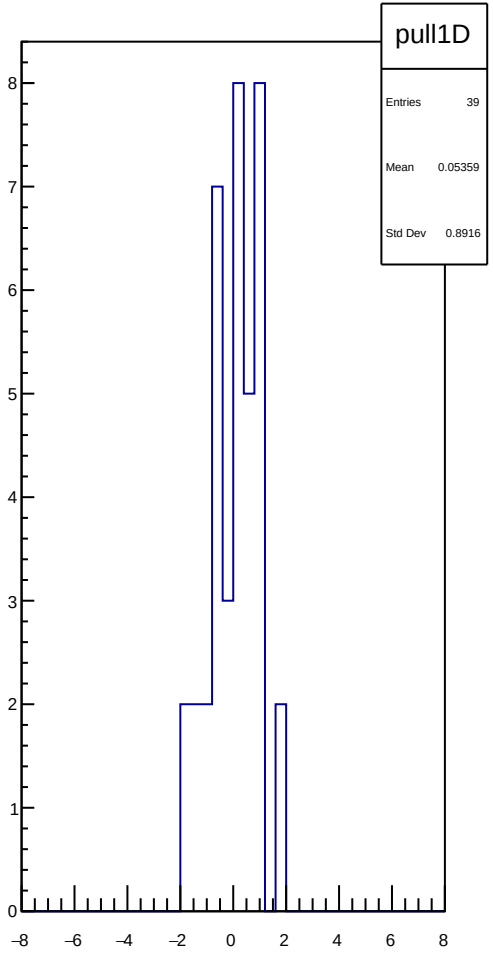


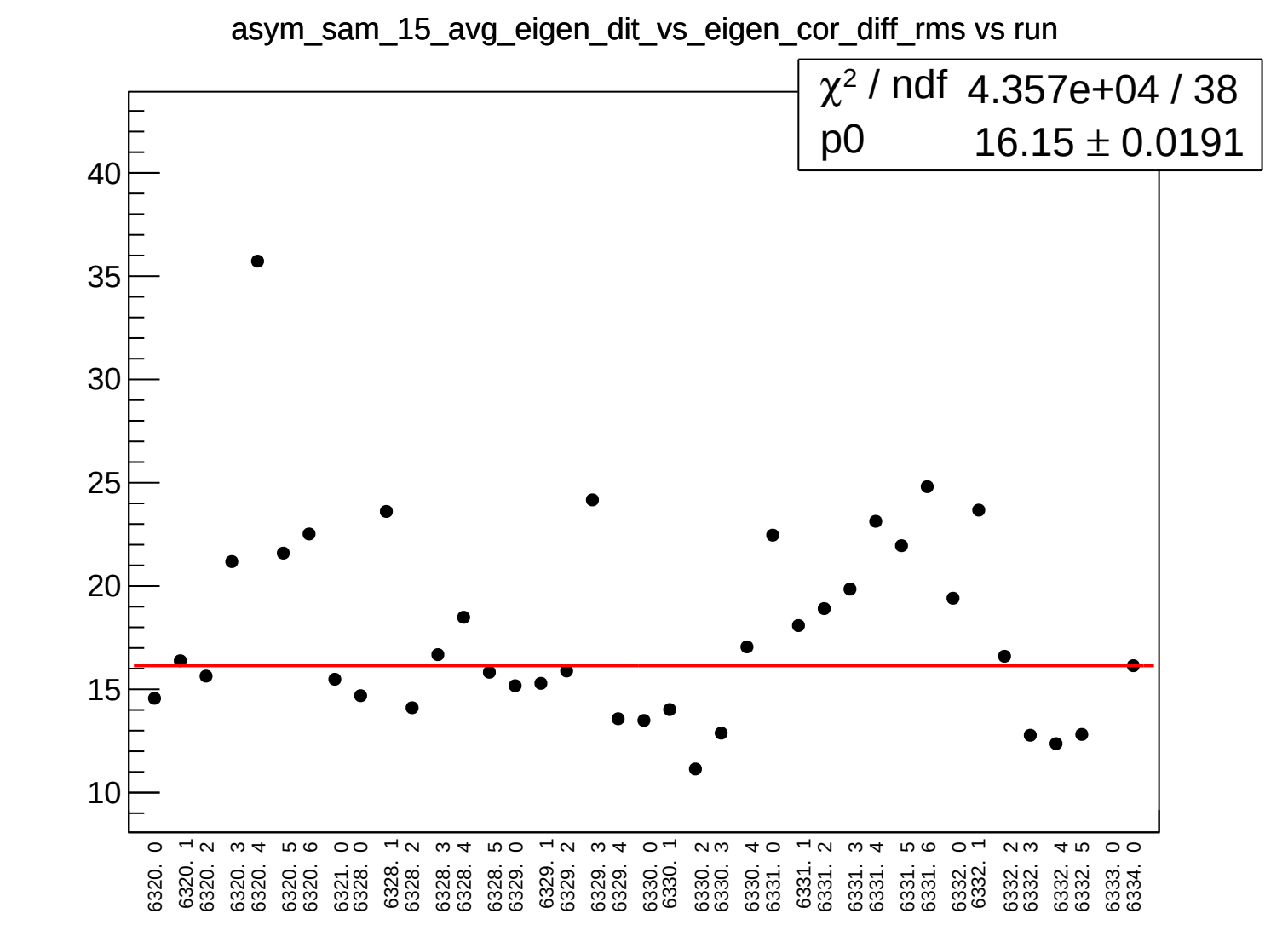


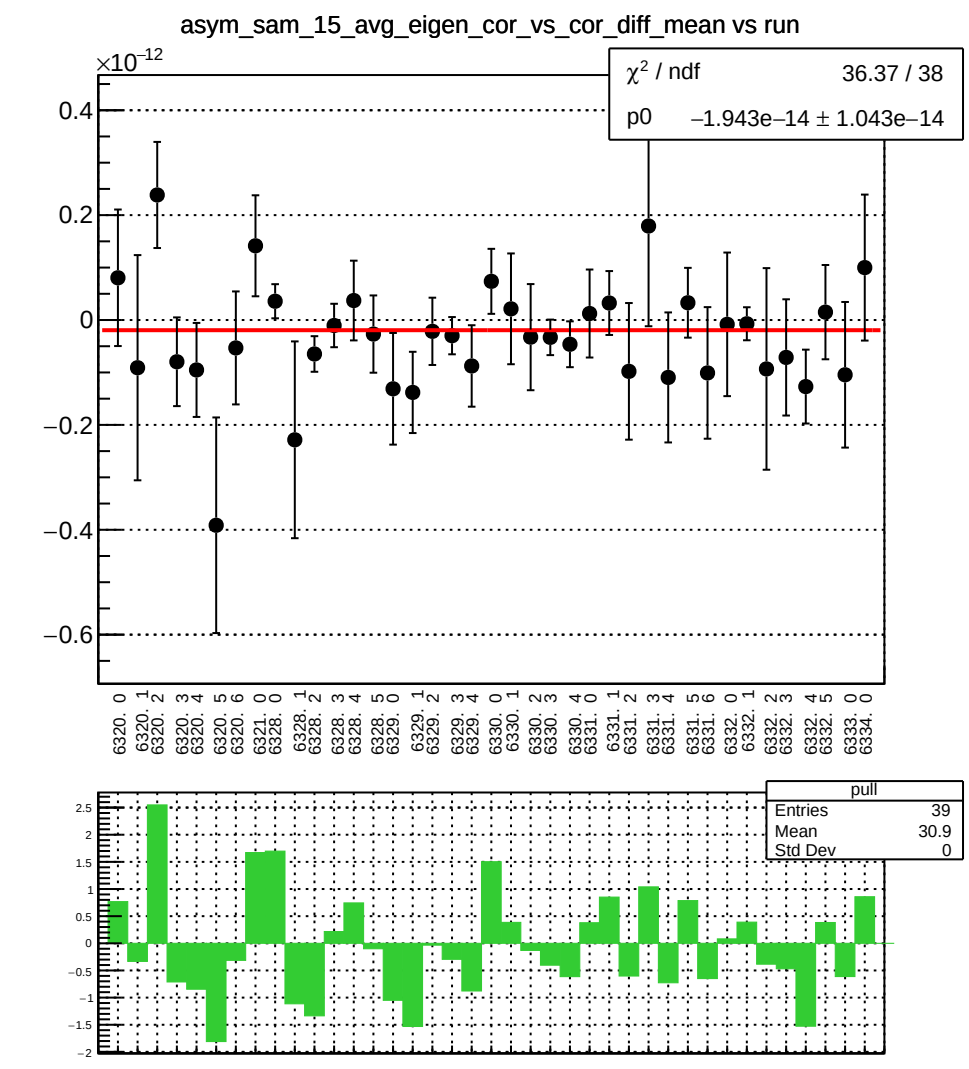


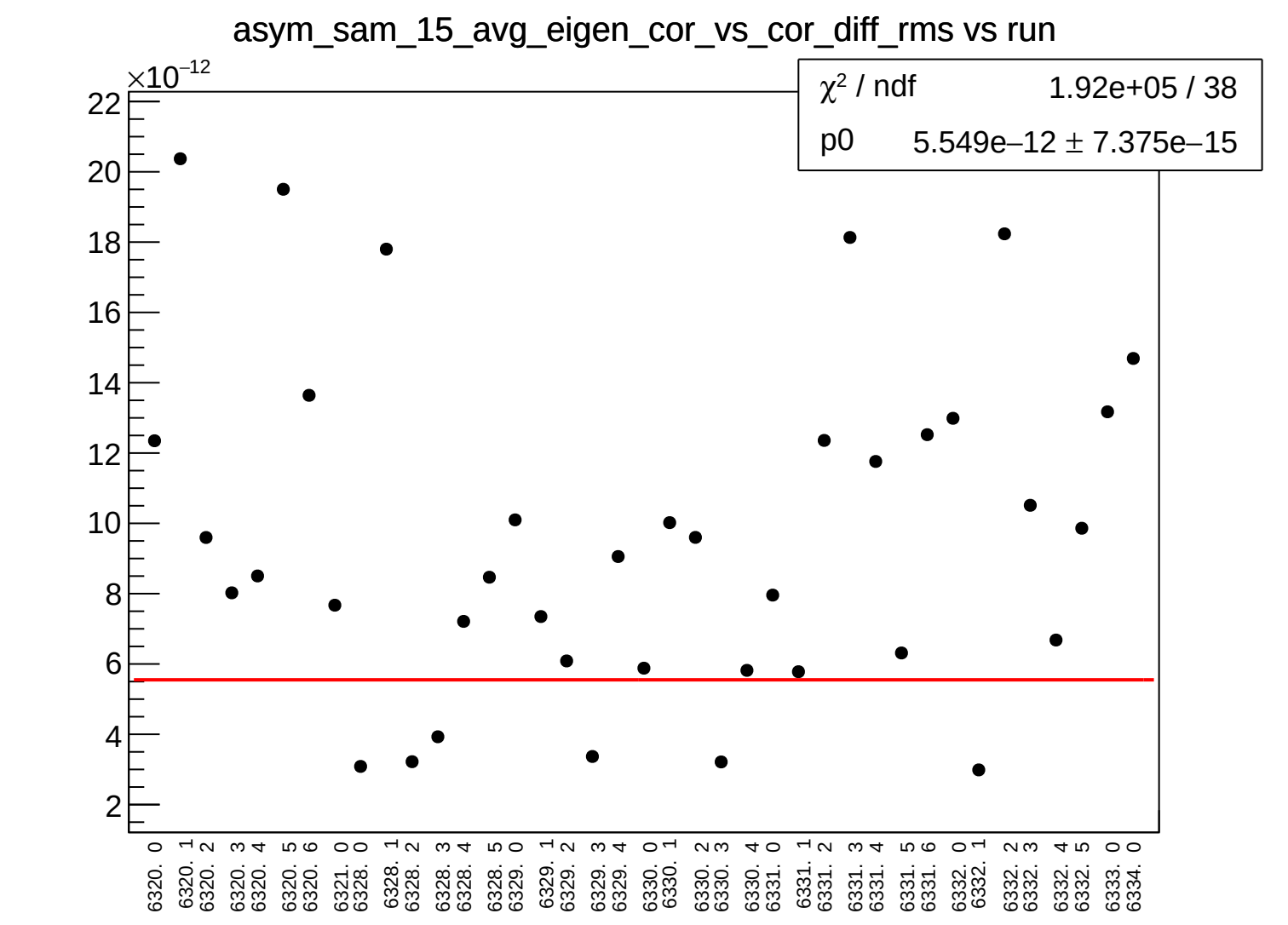

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.357e+04 / 38
p0 16.15 ± 0.0191
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

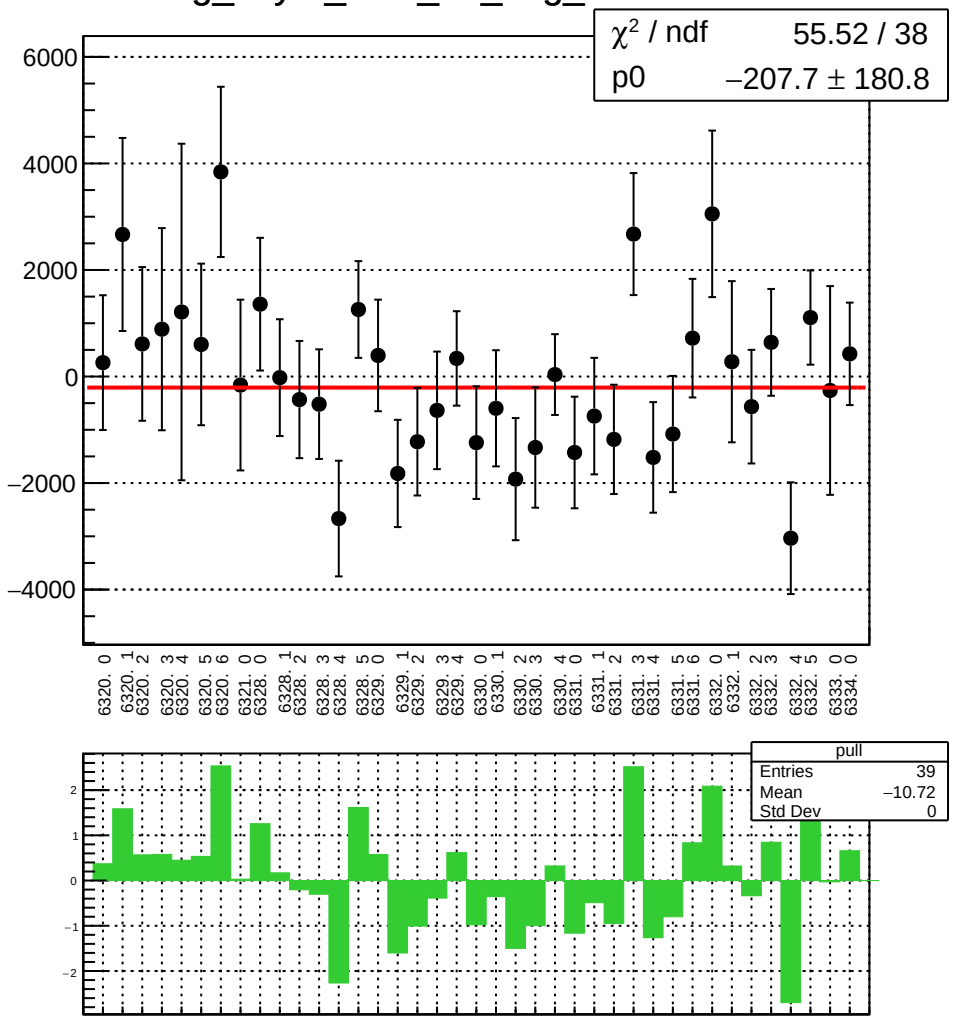

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.11 / 38
p0 −0.05568 ± 0.02702
pull
Entries 39
Mean −28.01
Std Dev 0

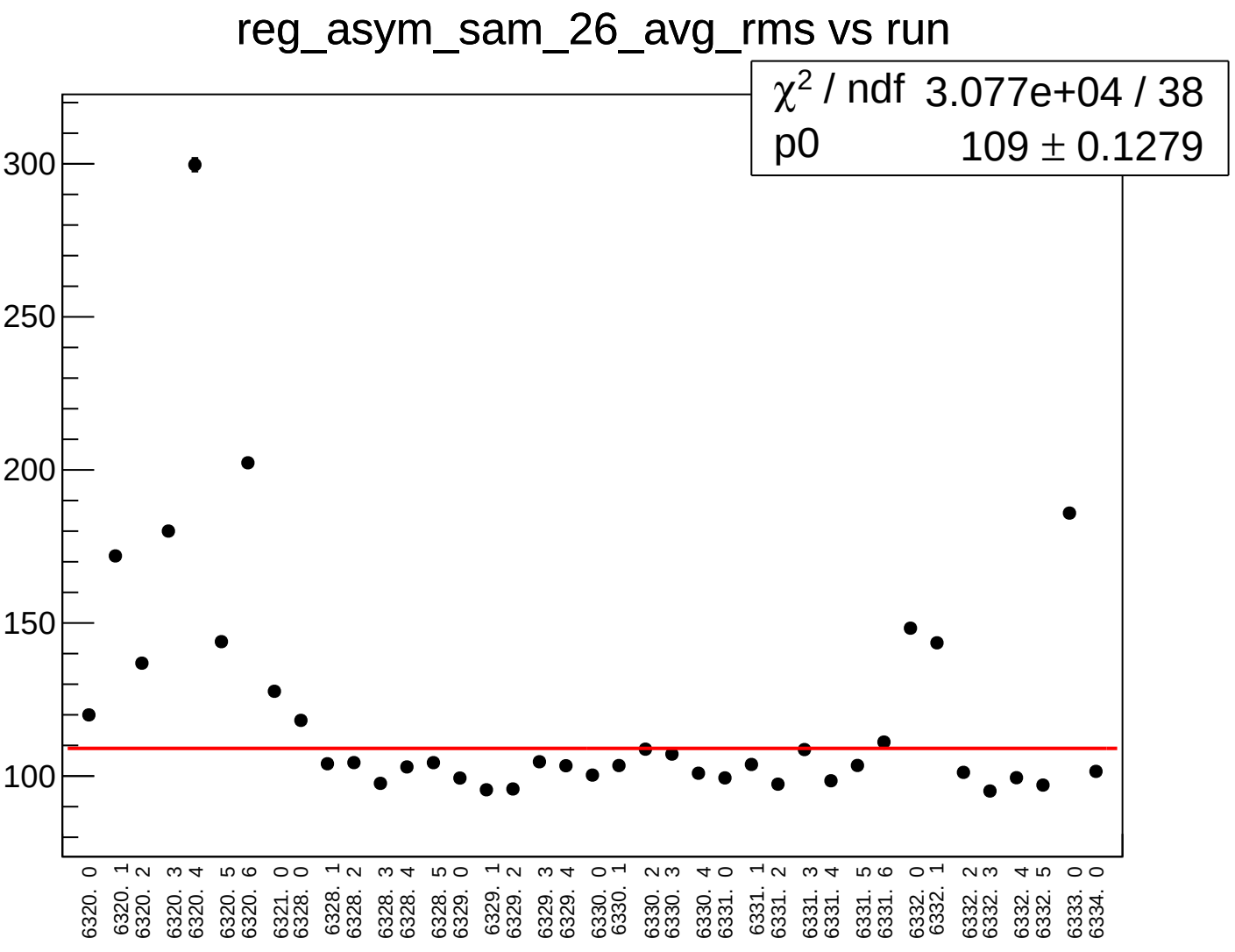

pull1D
Entries 39
Mean 0.05359
Std Dev 0.8916

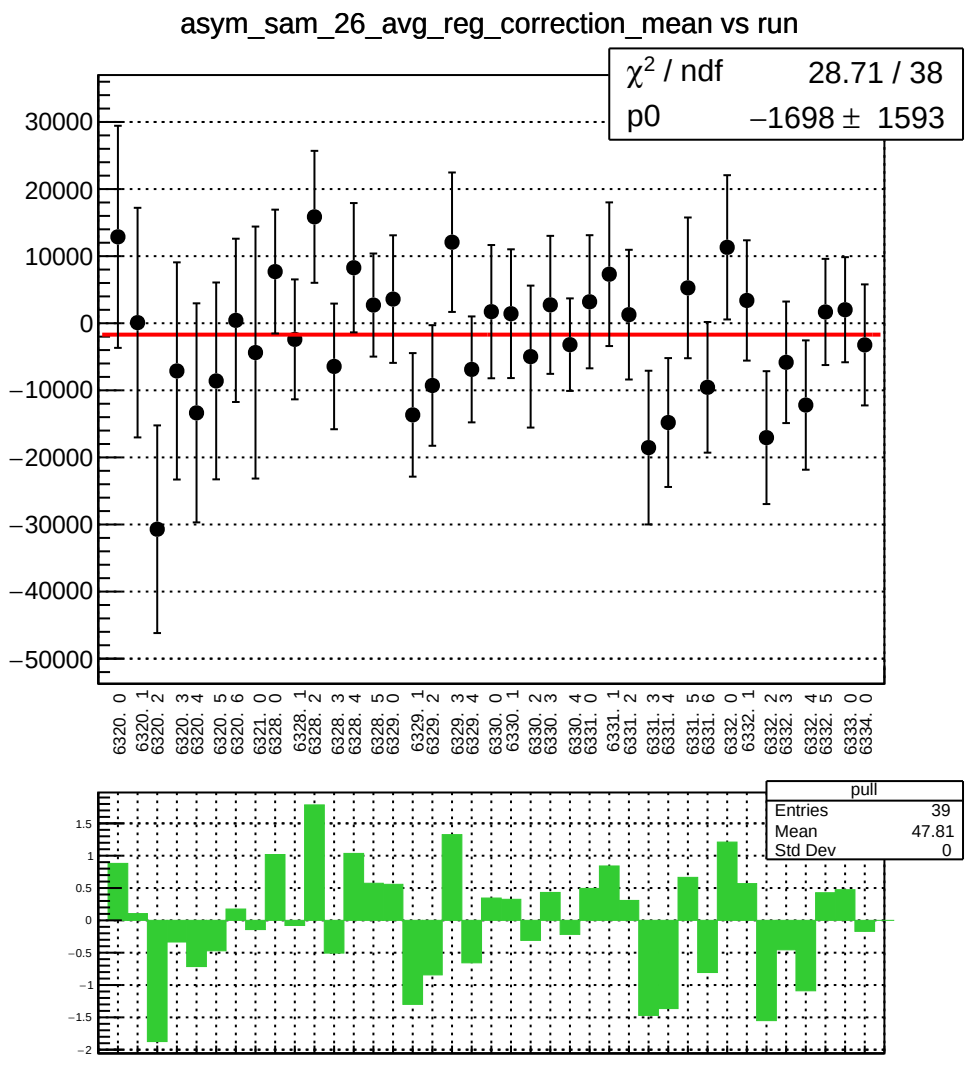

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.357e+04 / 38
p0 16.15 ± 0.0191
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

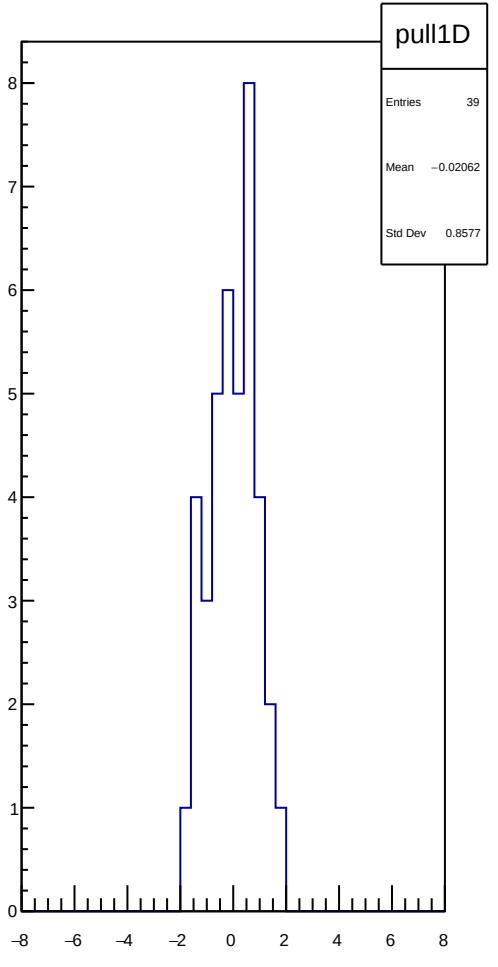

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.37 / 38
p0 −1.943e−14 ± 1.043e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 30.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.05547
Std Dev 0.964
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

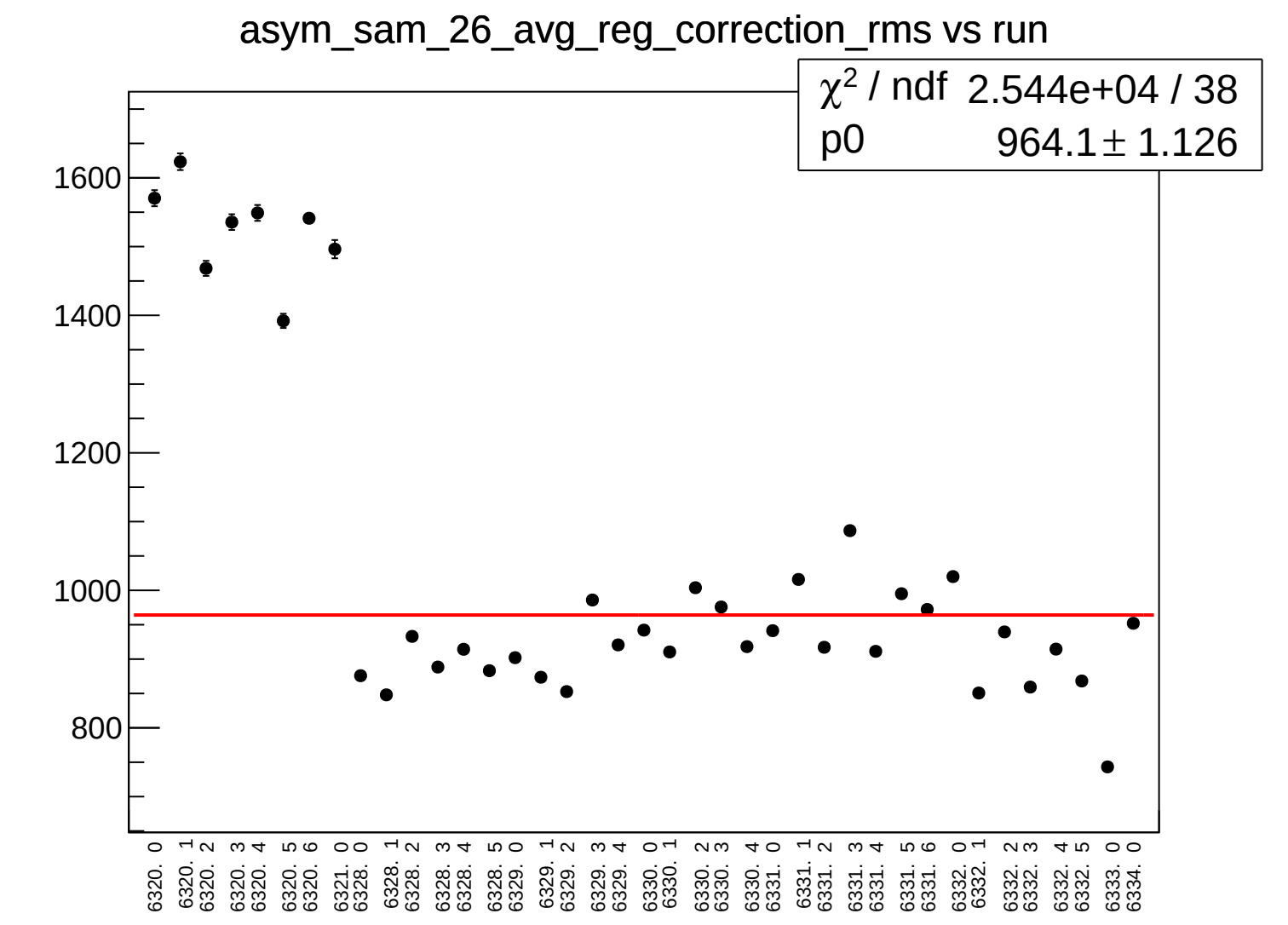

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.92e+05 / 38
p0 5.549e−12 ± 7.375e−15
22
20
18
16
14
12
10
8
6
4
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

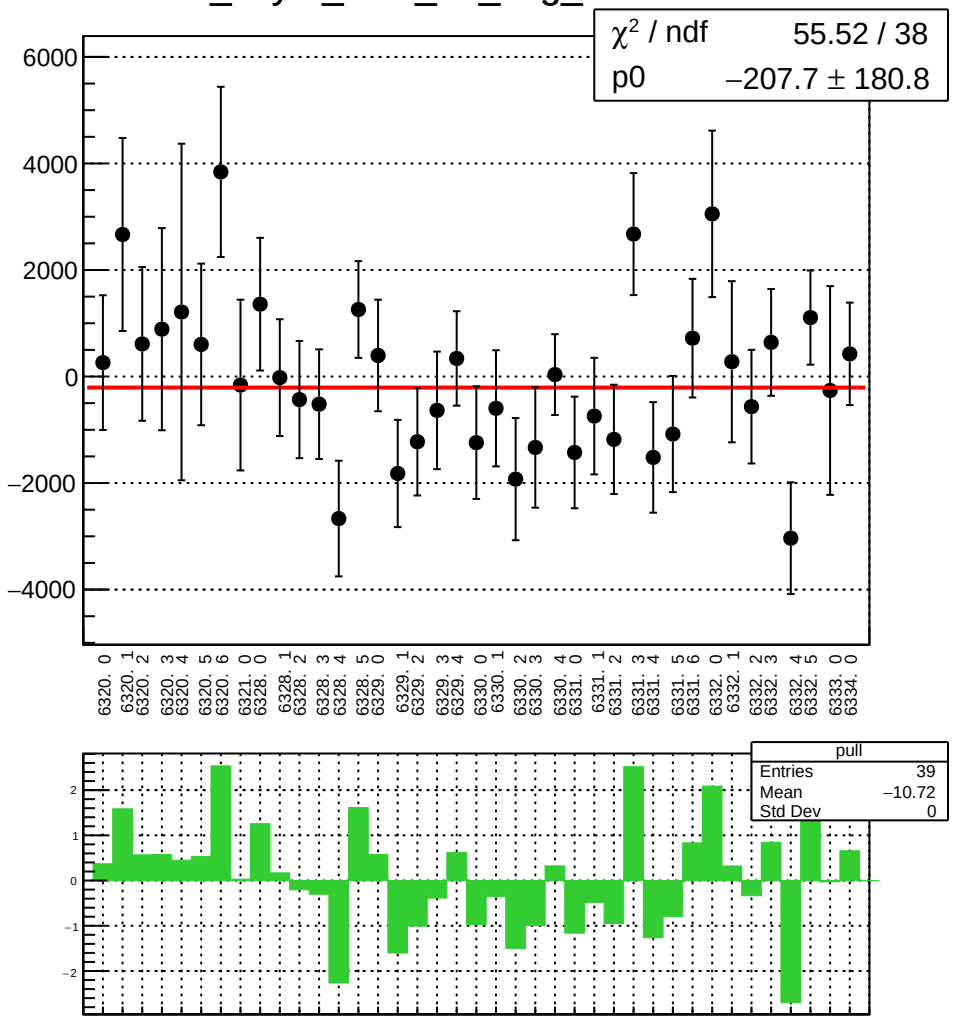

reg_asym_sam_26_avg_mean vs run
χ² / ndf 55.52 / 38
p0 −207.7 ± 180.8
pull
Entries 39
Mean −10.72
Std Dev 0
pull1D
Entries 39
Mean 0.06752
Std Dev 1.191

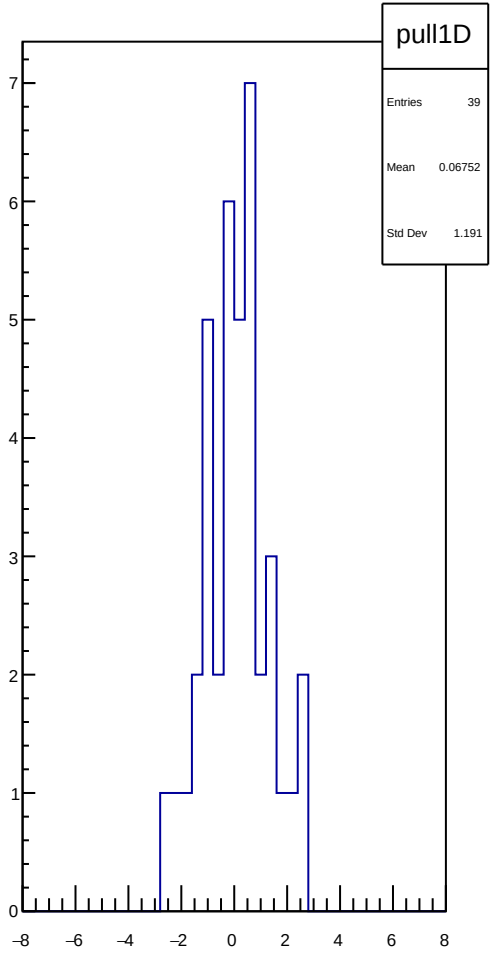

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.077e+04 / 38
p0 109 ± 0.1279
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

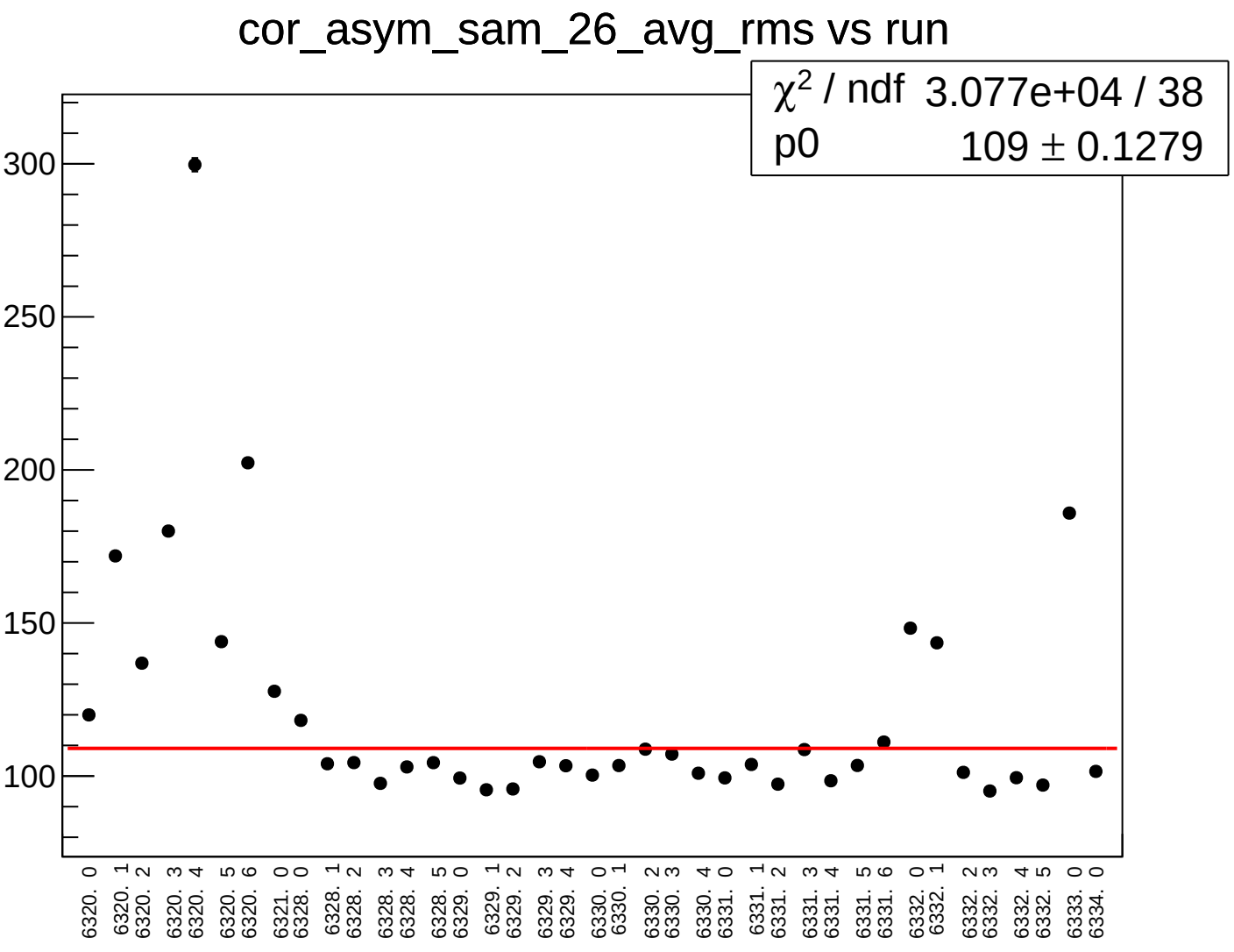

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 28.71 / 38
p0 −1698 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

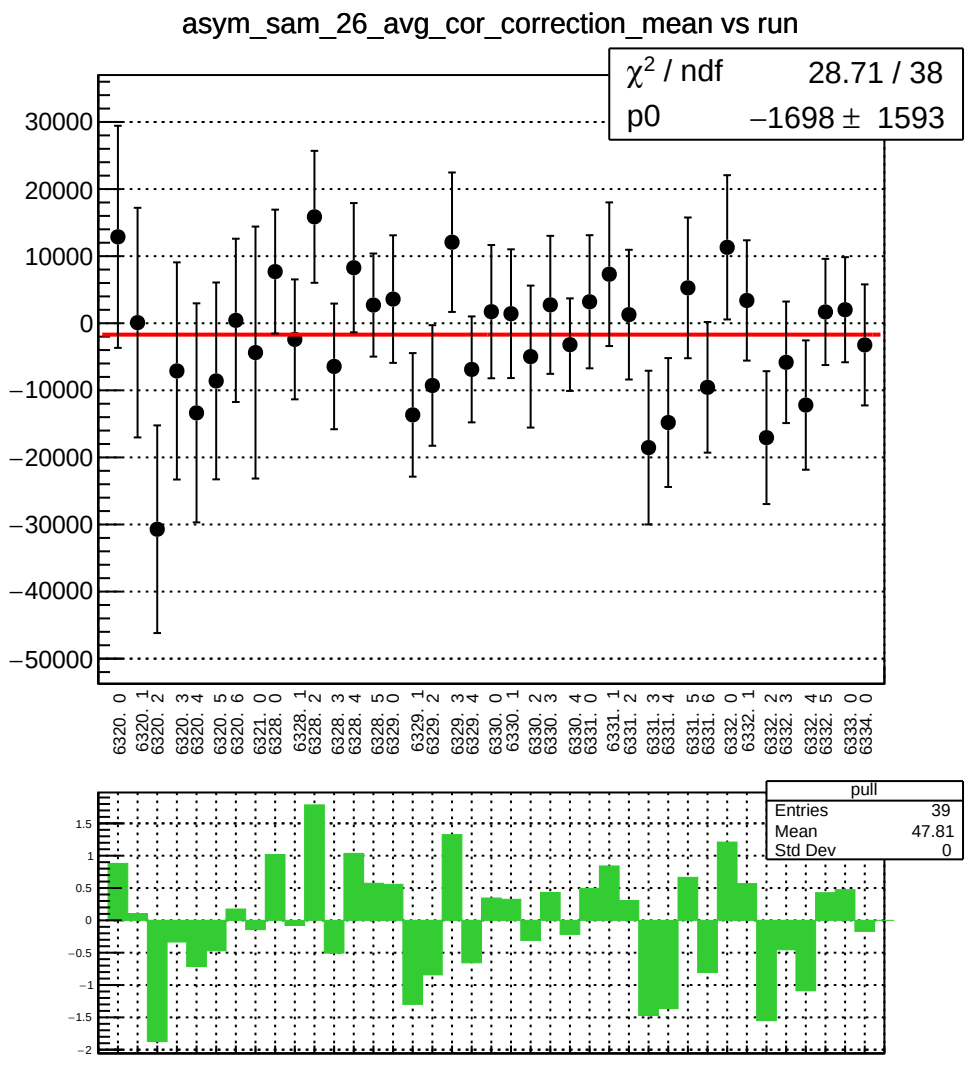

pull1D
Entries 39
Mean −0.02062
Std Dev 0.8577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

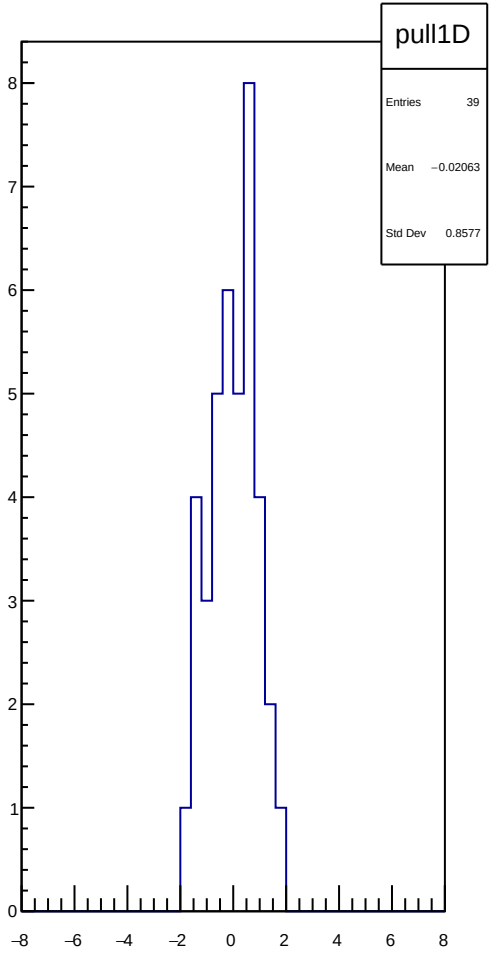

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.544e+04 / 38
p0 964.1 ± 1.126
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

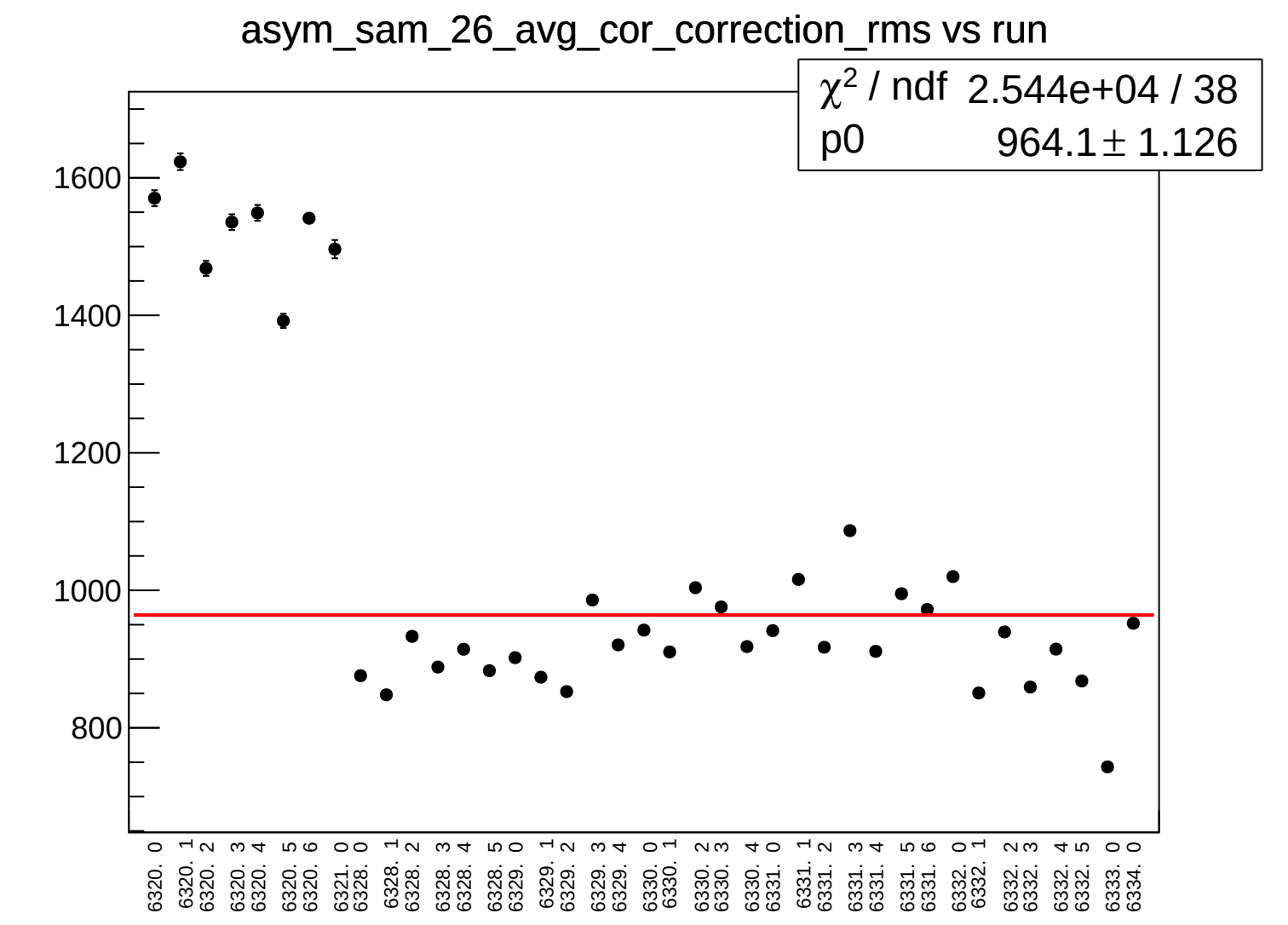

cor_asym_sam_26_avg_mean vs run
χ² / ndf 55.52 / 38
p0 −207.7 ± 180.8
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.72
Std Dev 0
2
1
0
−1
−2

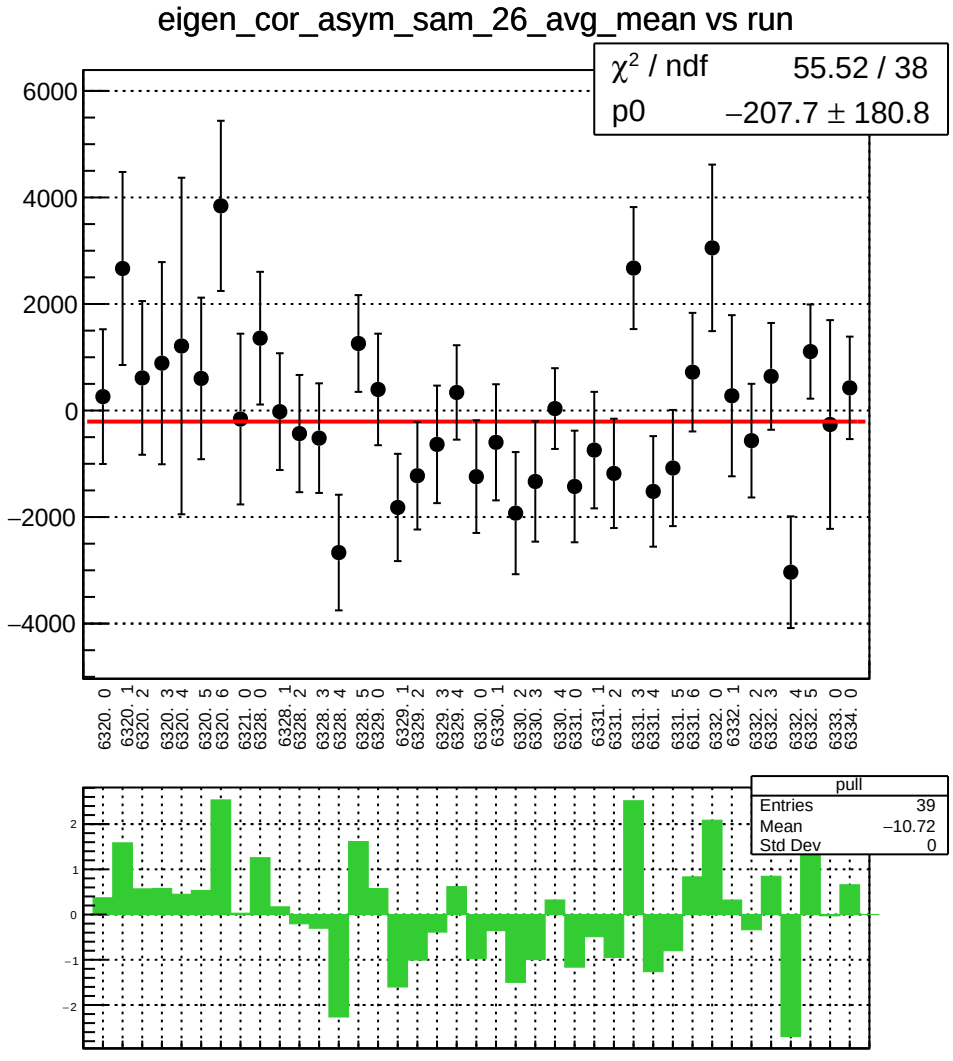

pull1D
Entries 39
Mean 0.06752
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

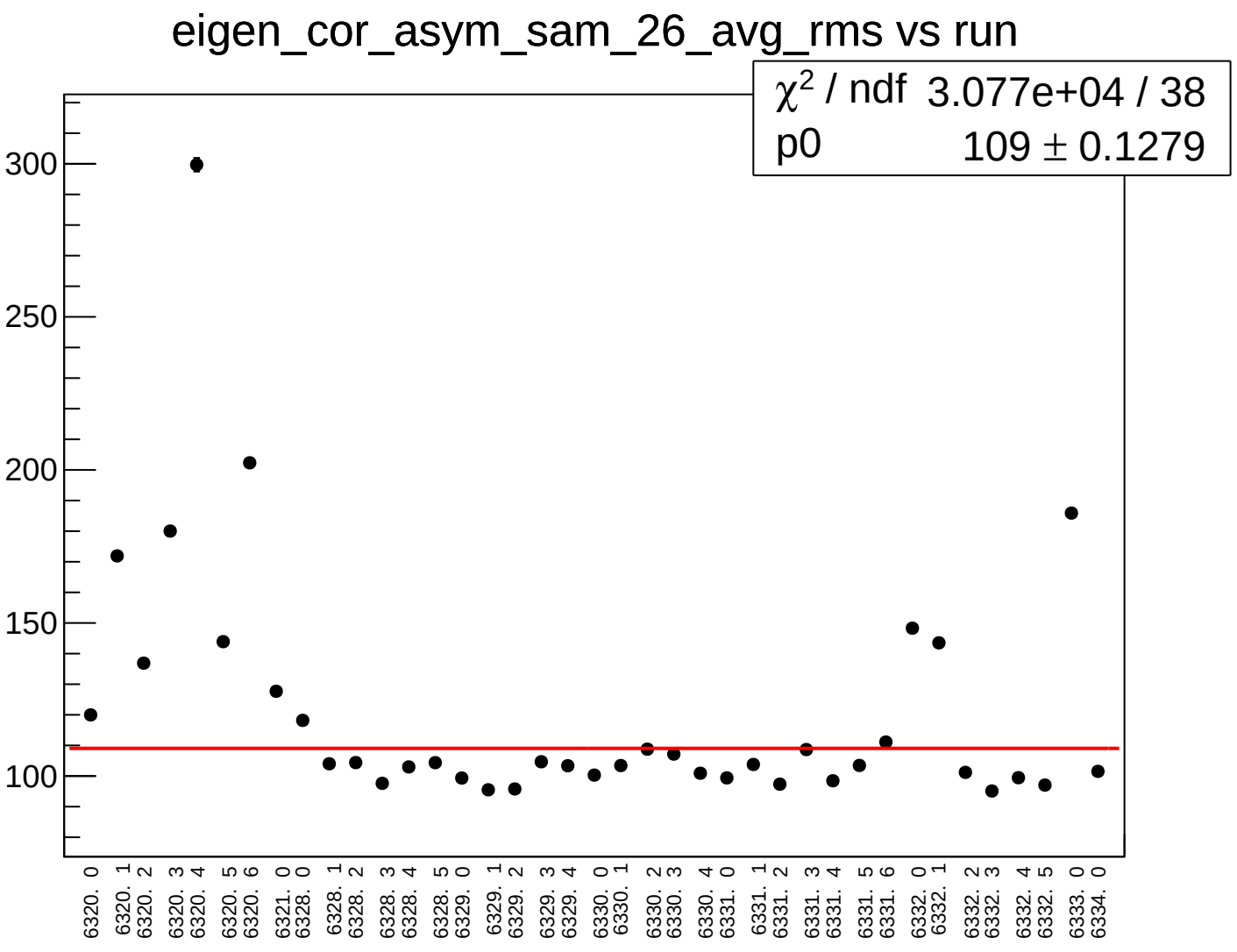

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.077e+04 / 38
p0 109 ± 0.1279
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

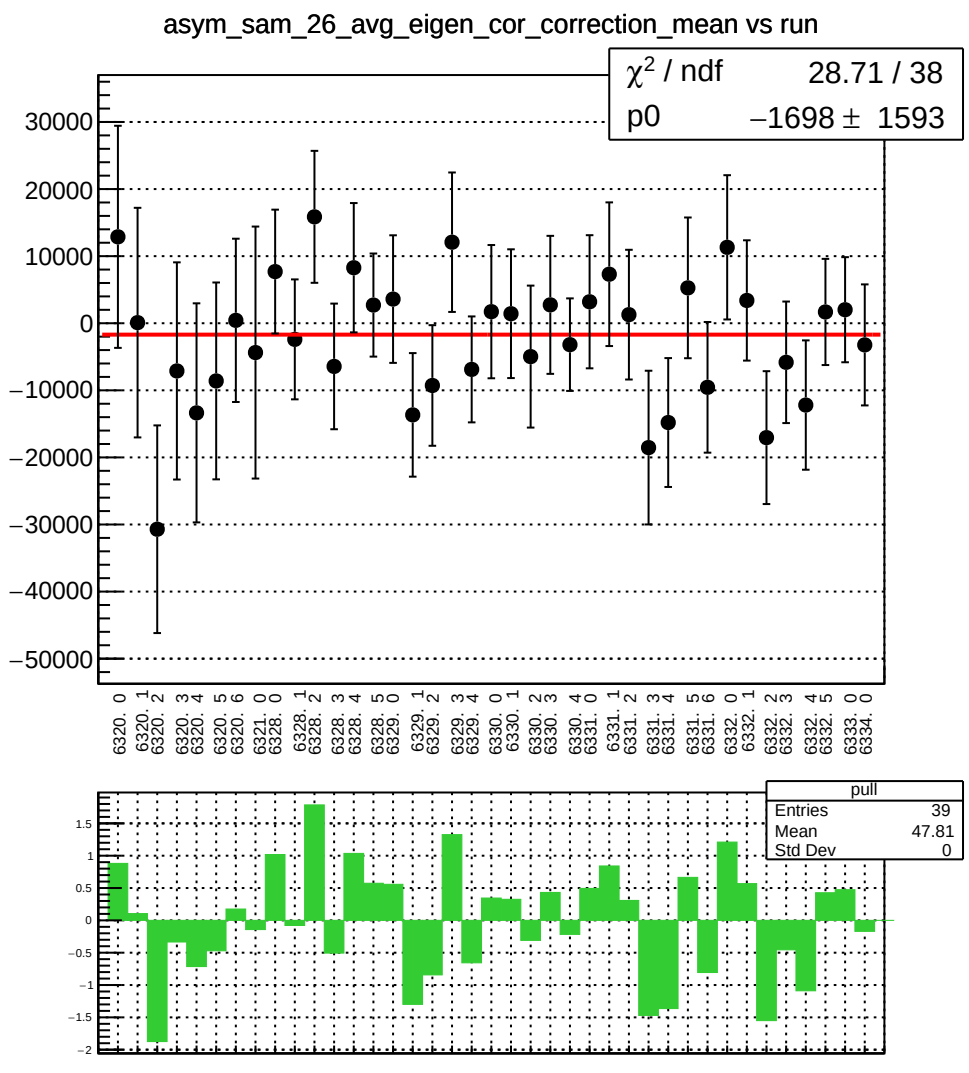

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 28.71 / 38
p0 −1698 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

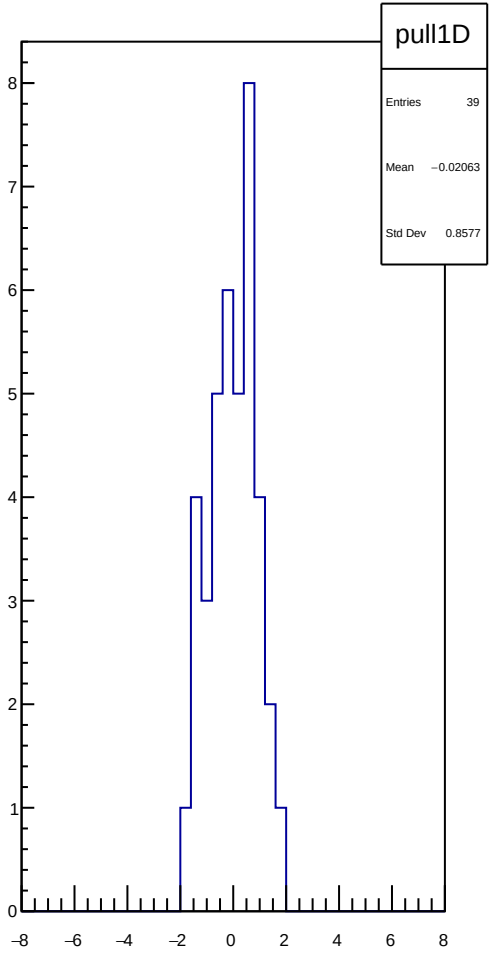

pull1D
Entries 39
Mean −0.02063
Std Dev 0.8577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

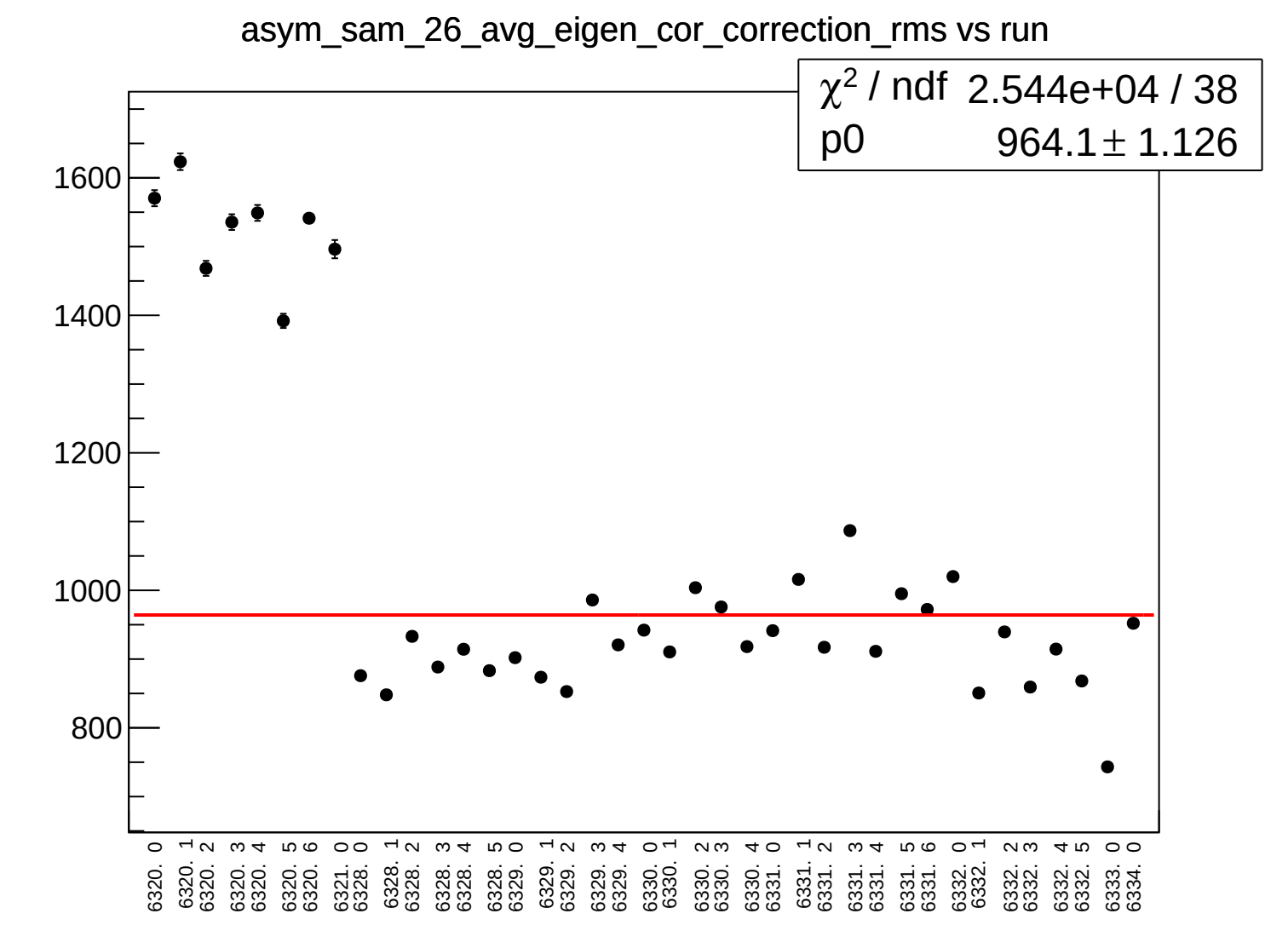

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.544e+04 / 38
p0 964.1 ± 1.126
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

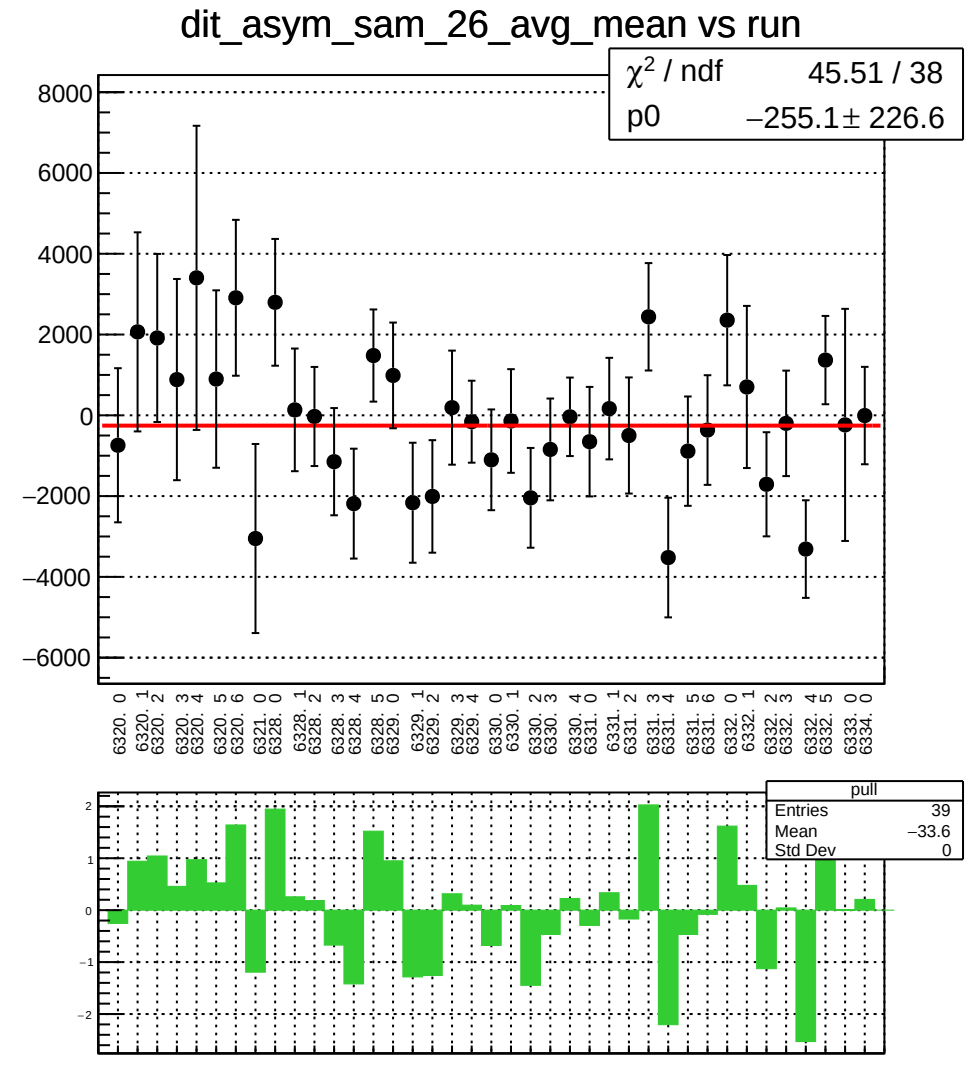

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 55.52 / 38
p0 −207.7 ± 180.8
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.06752
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

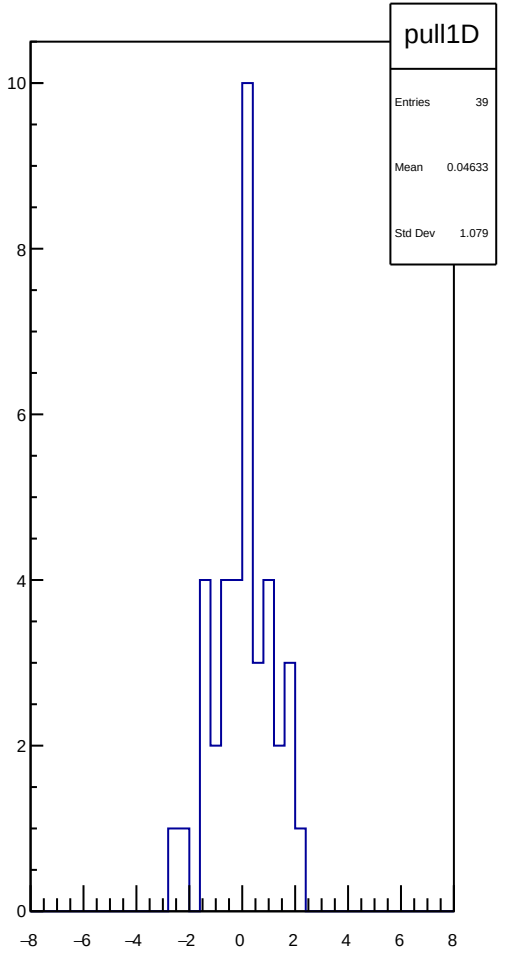

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.077e+04 / 38
p0 109 ± 0.1279
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

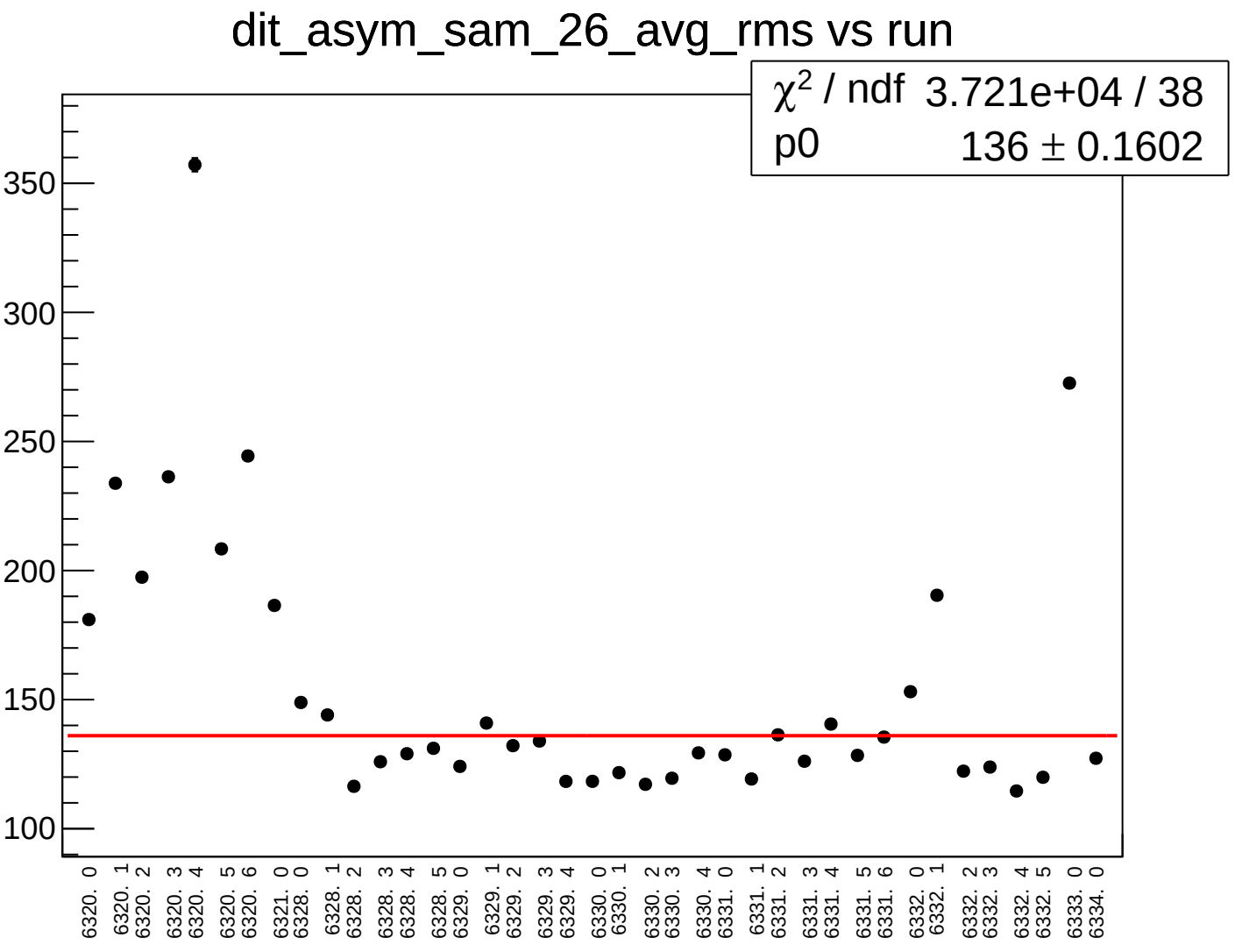

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.71 / 38
p0 −1698 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

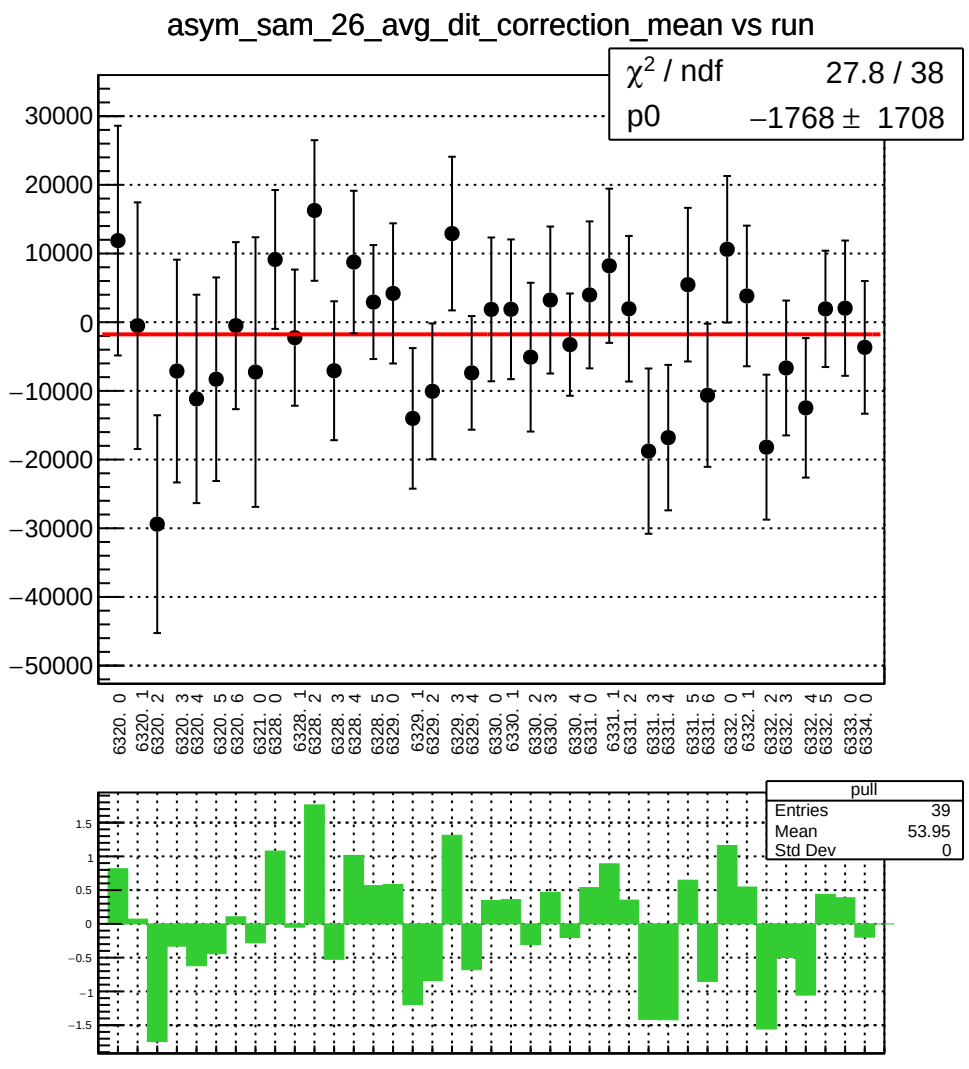

pull1D
Entries 39
Mean −0.02063
Std Dev 0.8577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

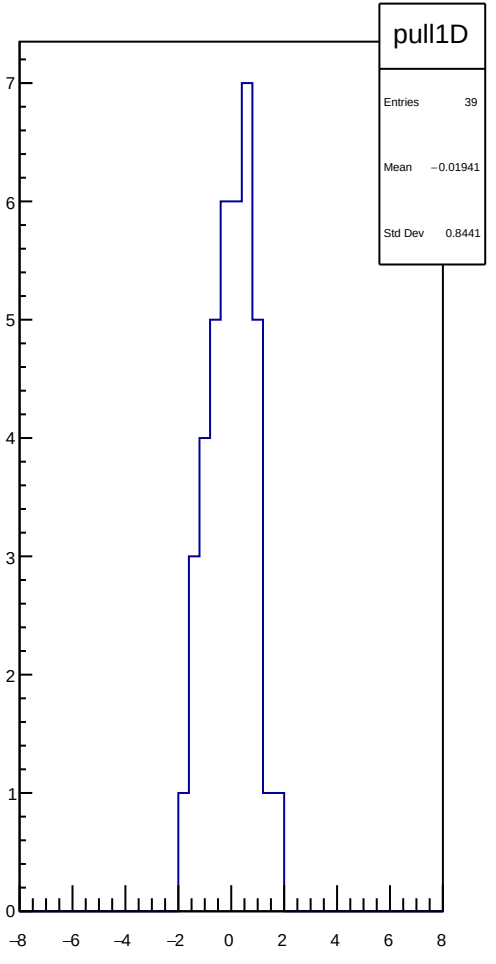

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.544e+04 / 38
p0 964.1 ± 1.126
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

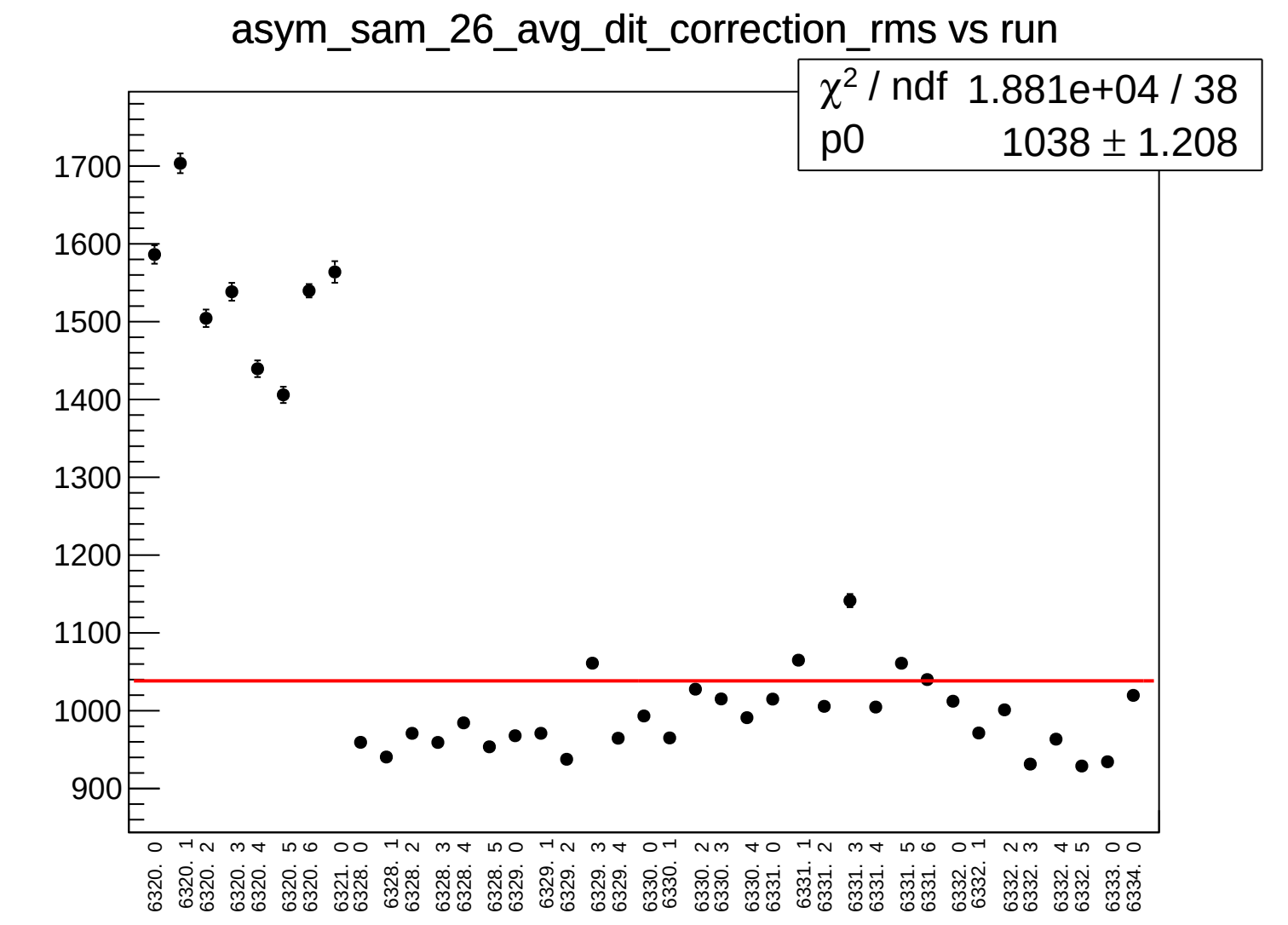

dit_asym_sam_26_avg_mean vs run
χ² / ndf 45.51 / 38
p0 −255.1± 226.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −33.6
Std Dev 0
2
1
0
−1
−2

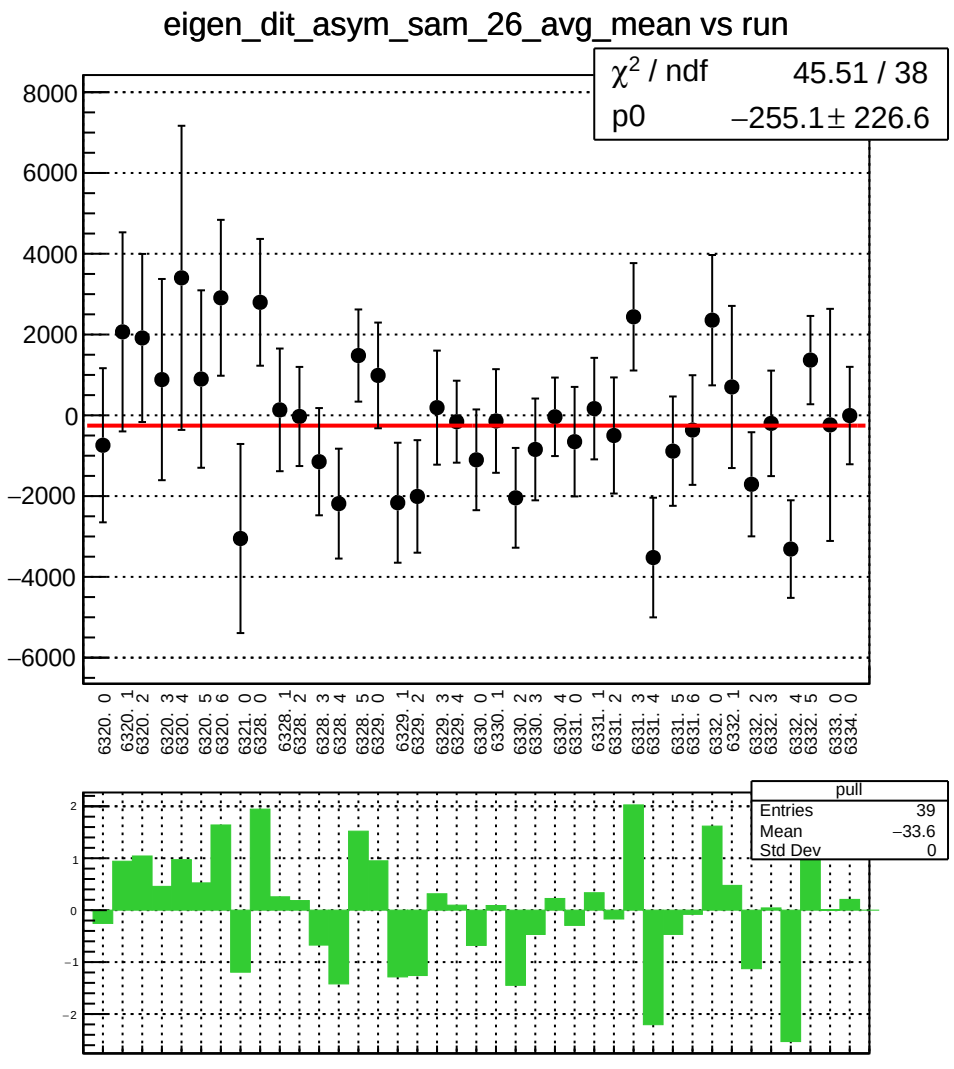

pull1D
Entries 39
Mean 0.04633
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

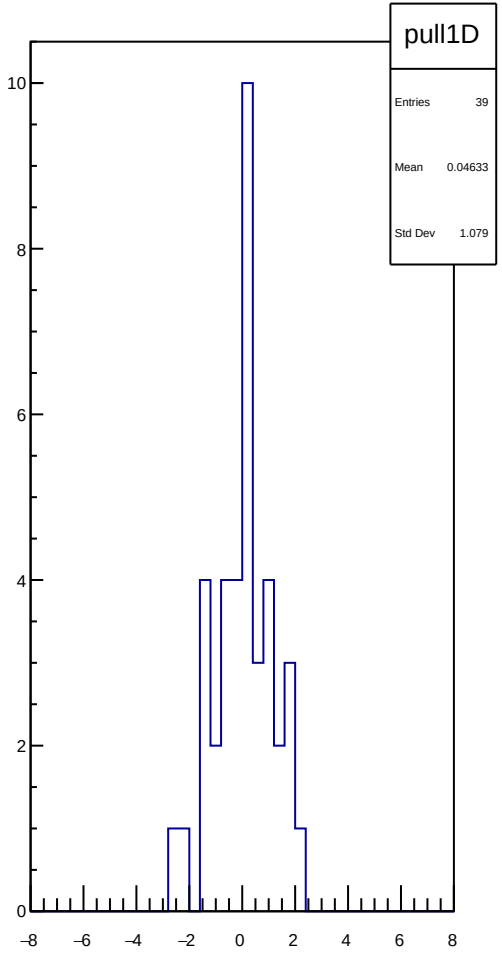

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.721e+04 / 38
p0 136 ± 0.1602
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

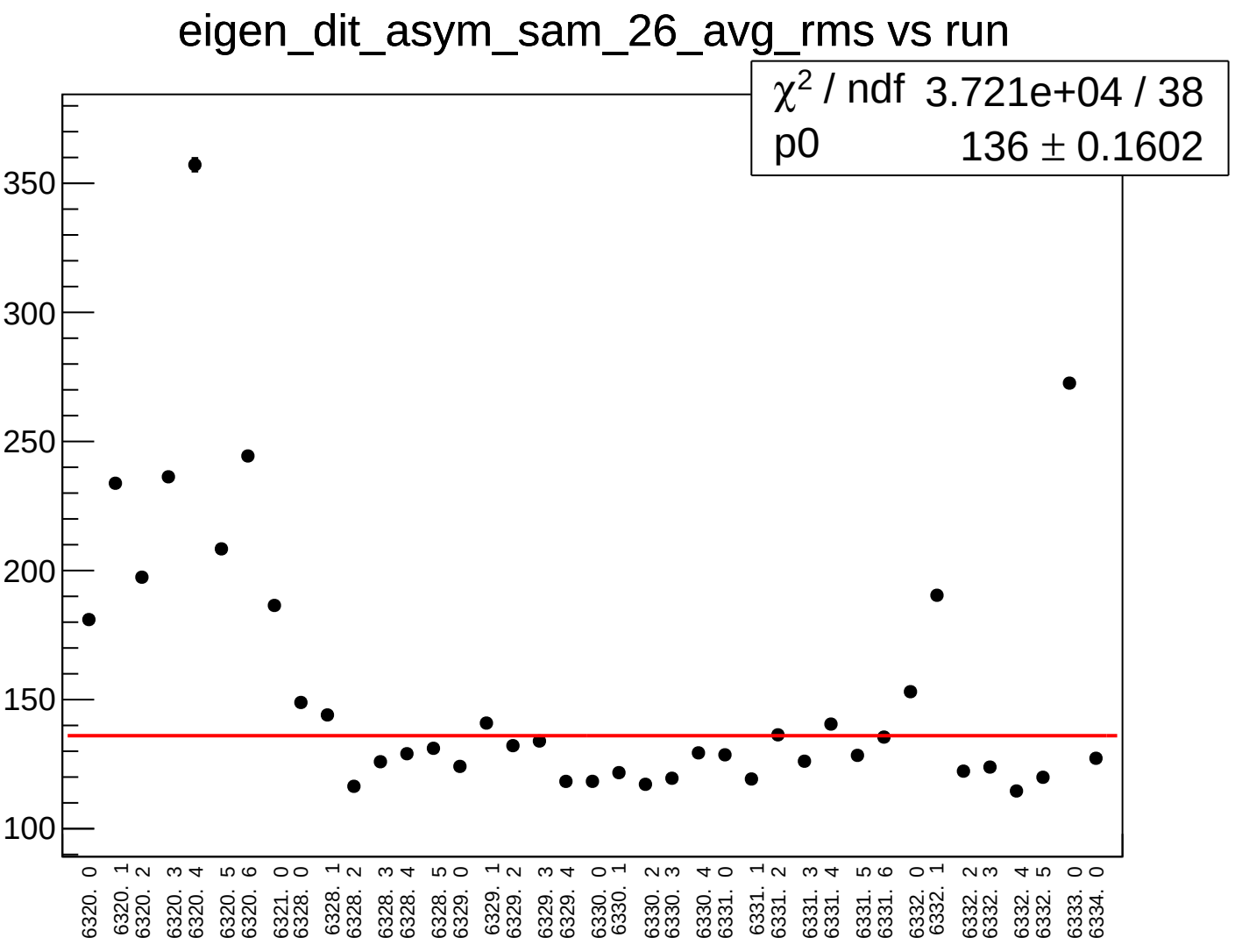

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 27.8 / 38
p0 −1768 ± 1708
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

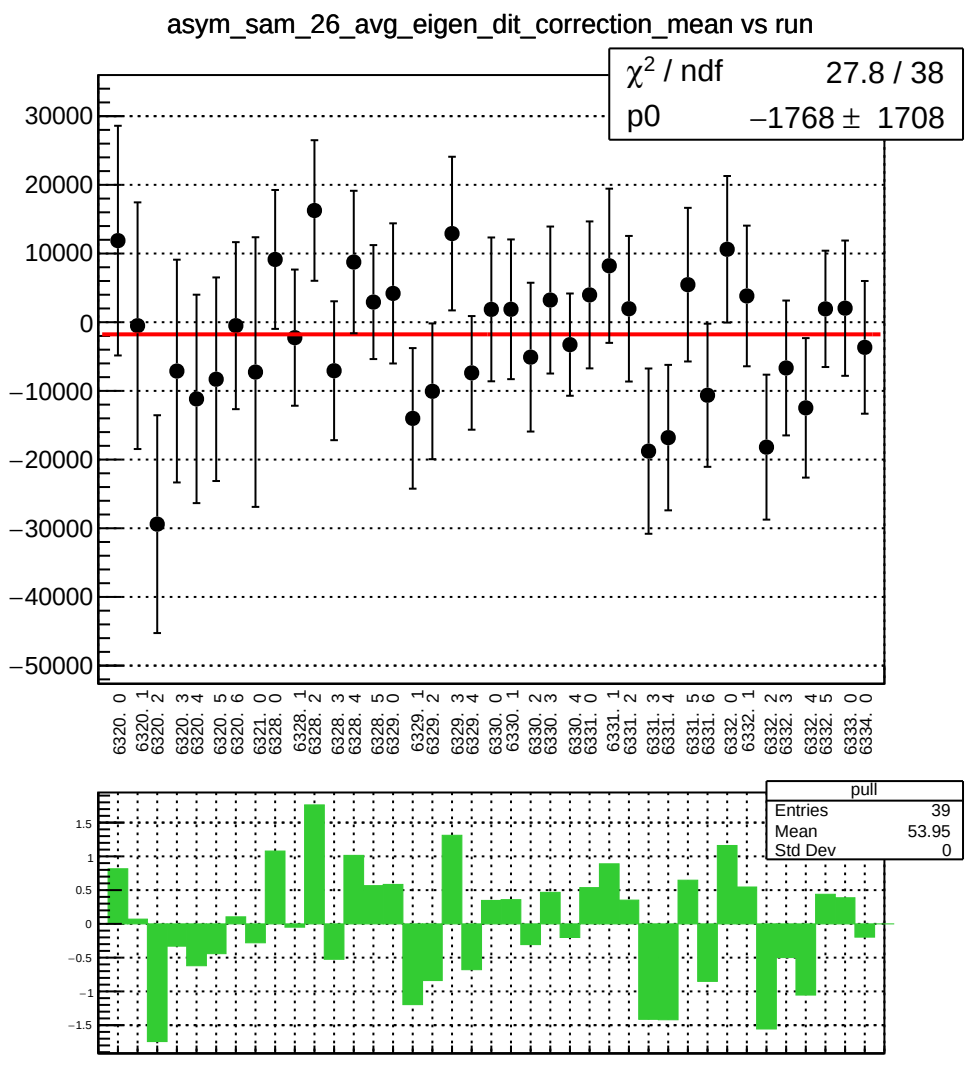

pull1D
Entries 39
Mean −0.01941
Std Dev 0.8441
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

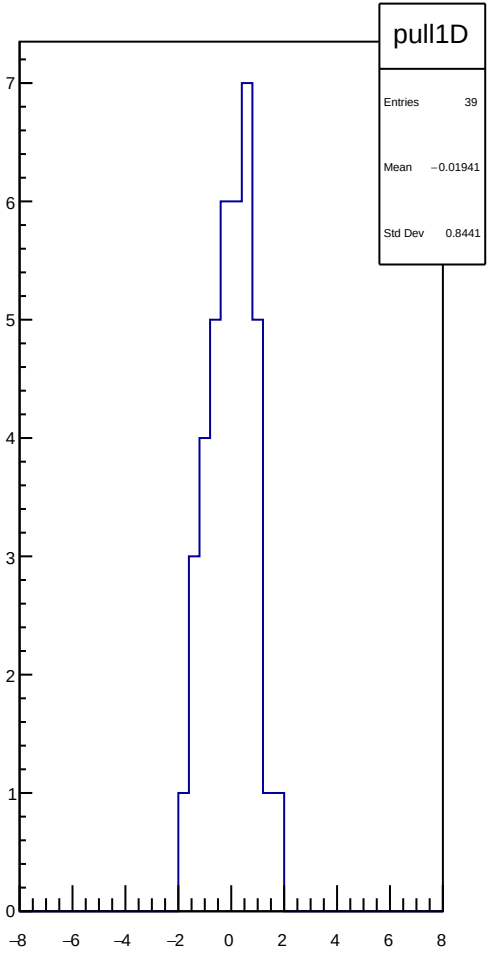

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.881e+04 / 38
p0 1038 ± 1.208
1700
1600
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

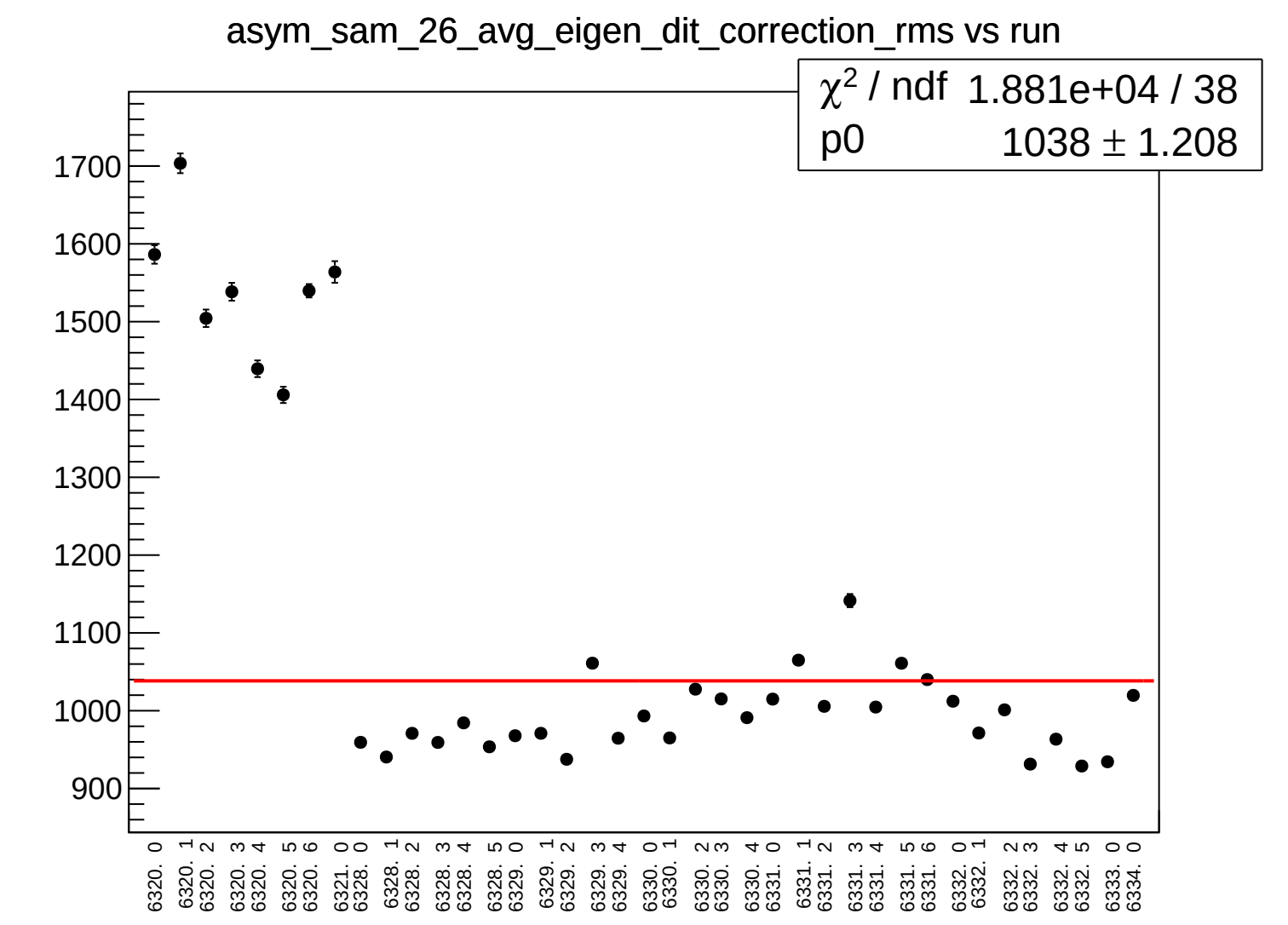

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 45.51 / 38
p0 −255.1± 226.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −33.6
Std Dev 0
2
1
0
−1
−2

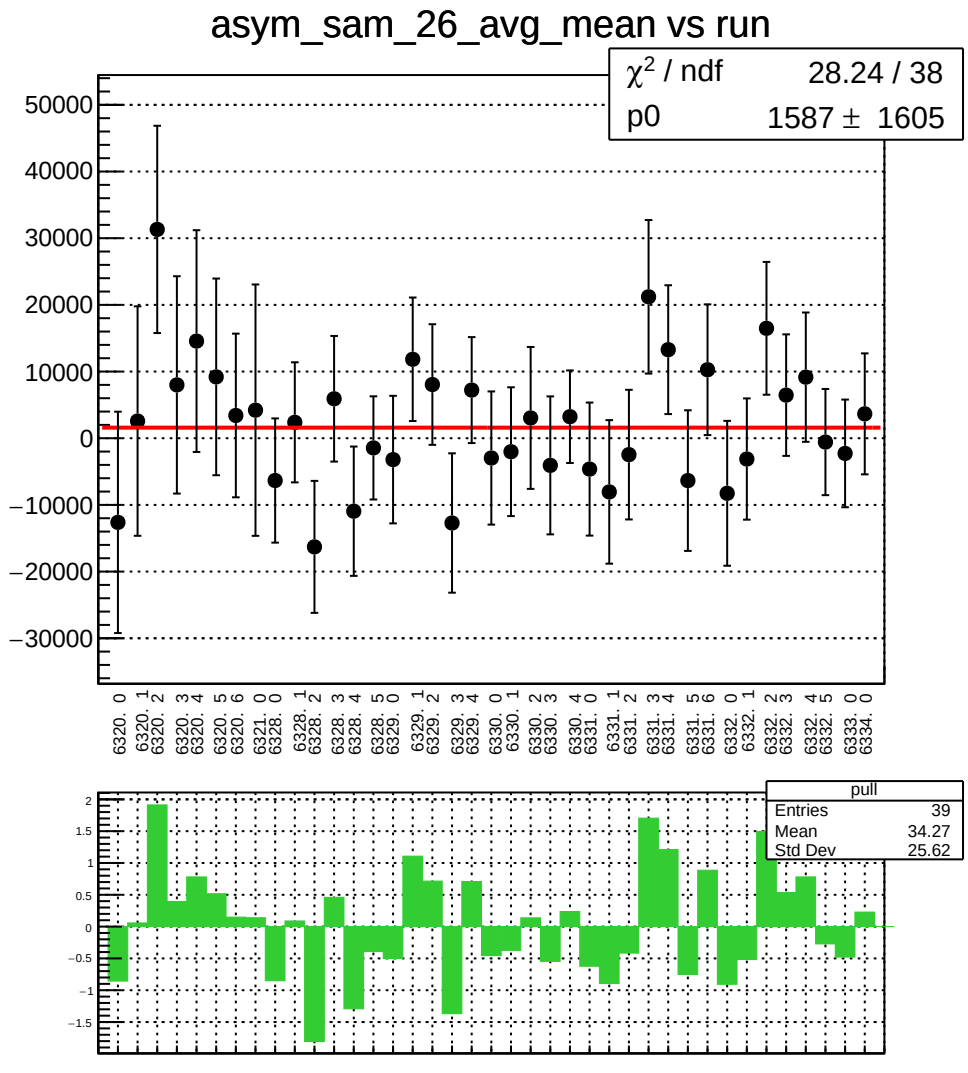

pull1D
Entries 39
Mean 0.04633
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

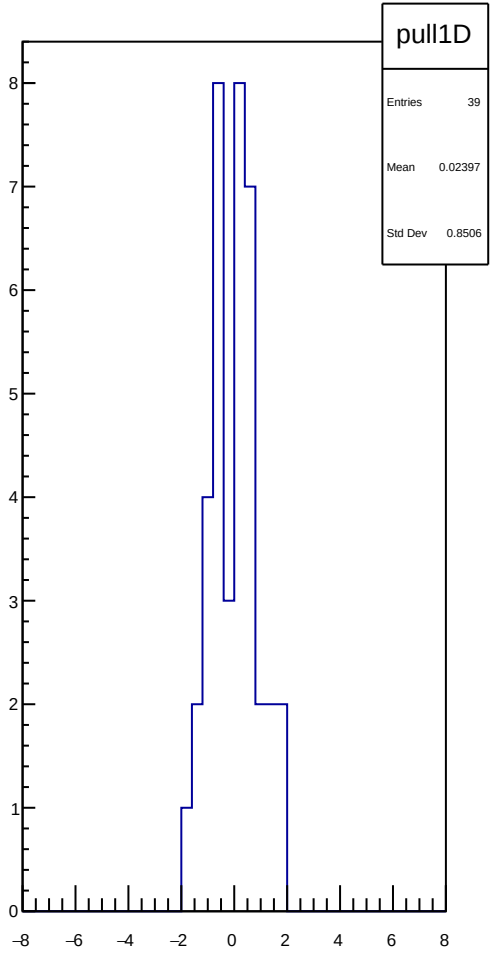

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.721e+04 / 38
p0 136 ± 0.1602
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

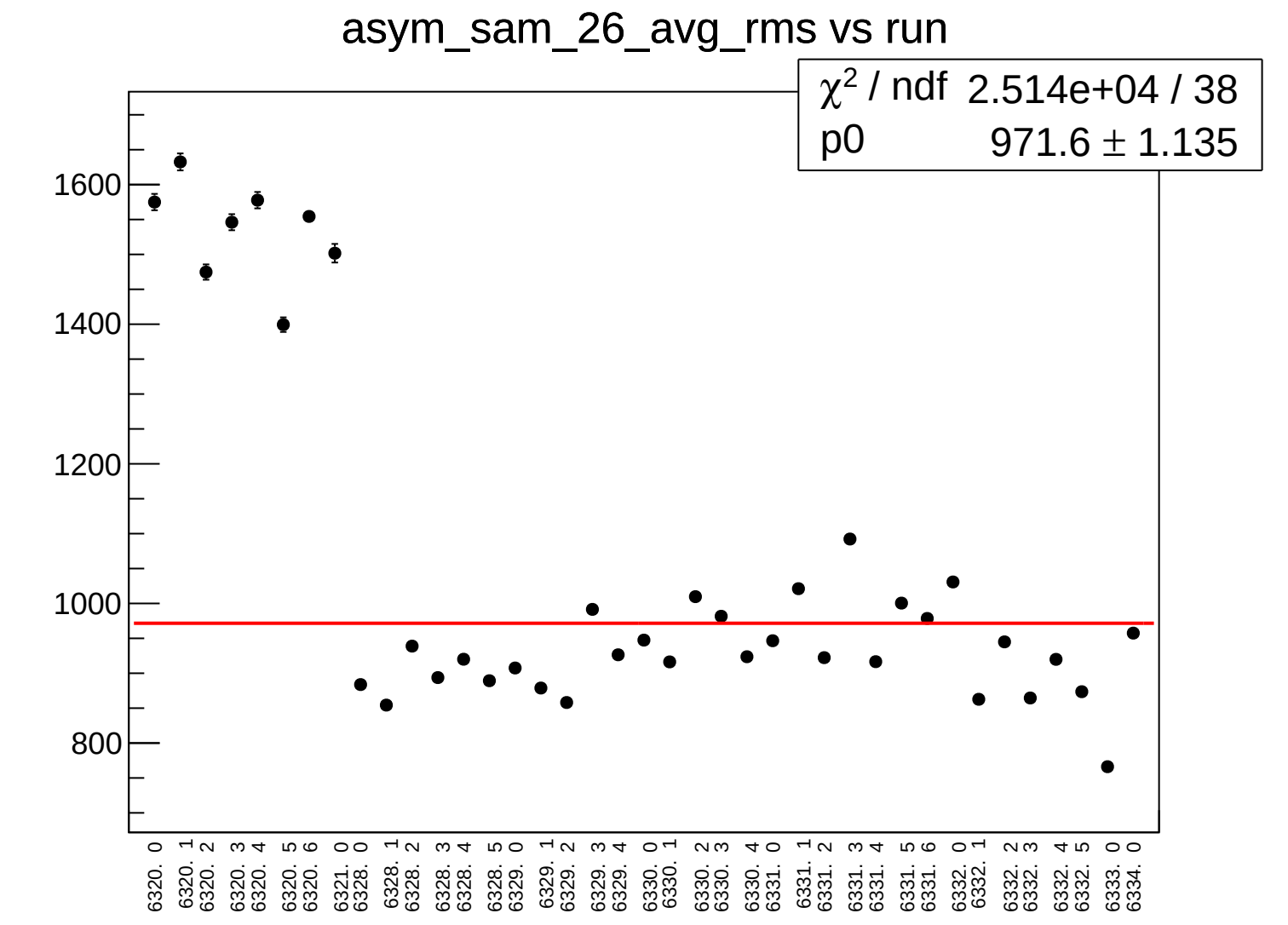

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.8 / 38
p0 −1768 ± 1708
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

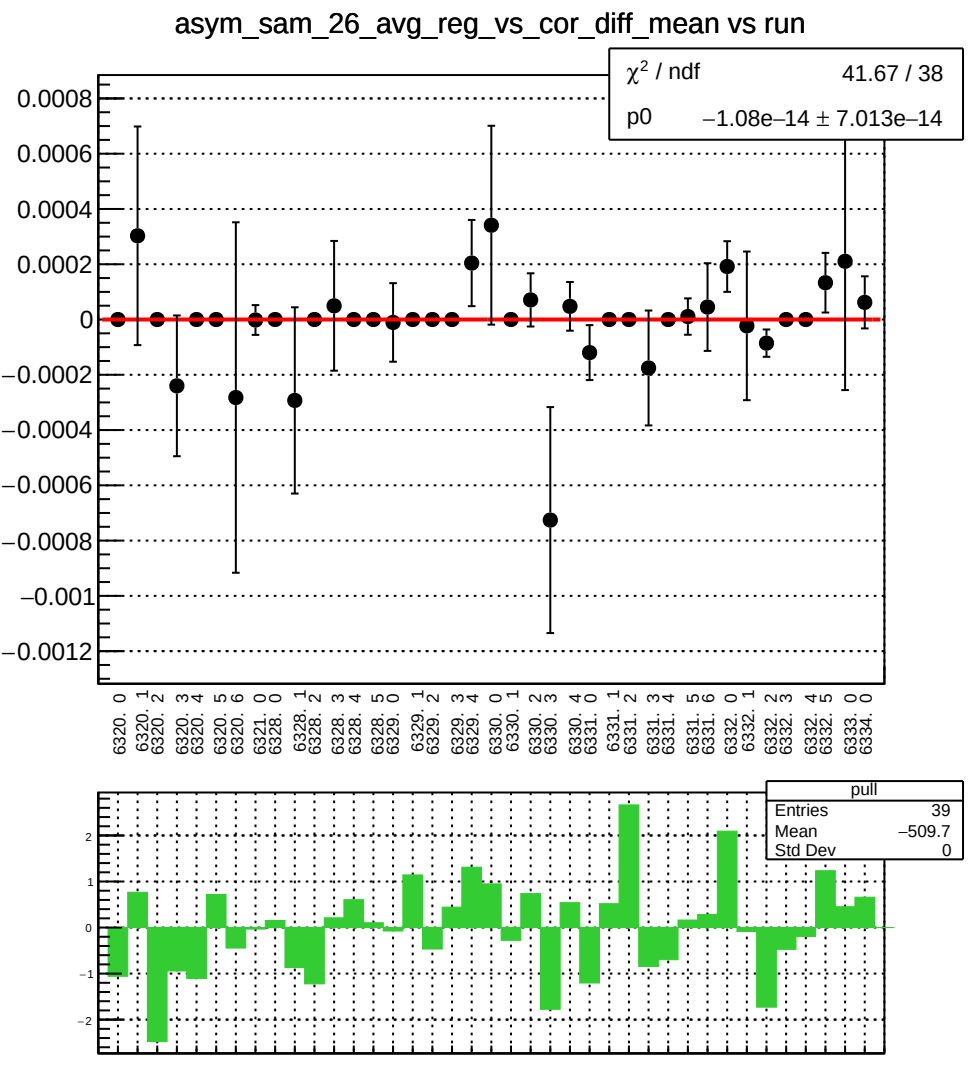

pull1D
Entries 39
Mean −0.01941
Std Dev 0.8441
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

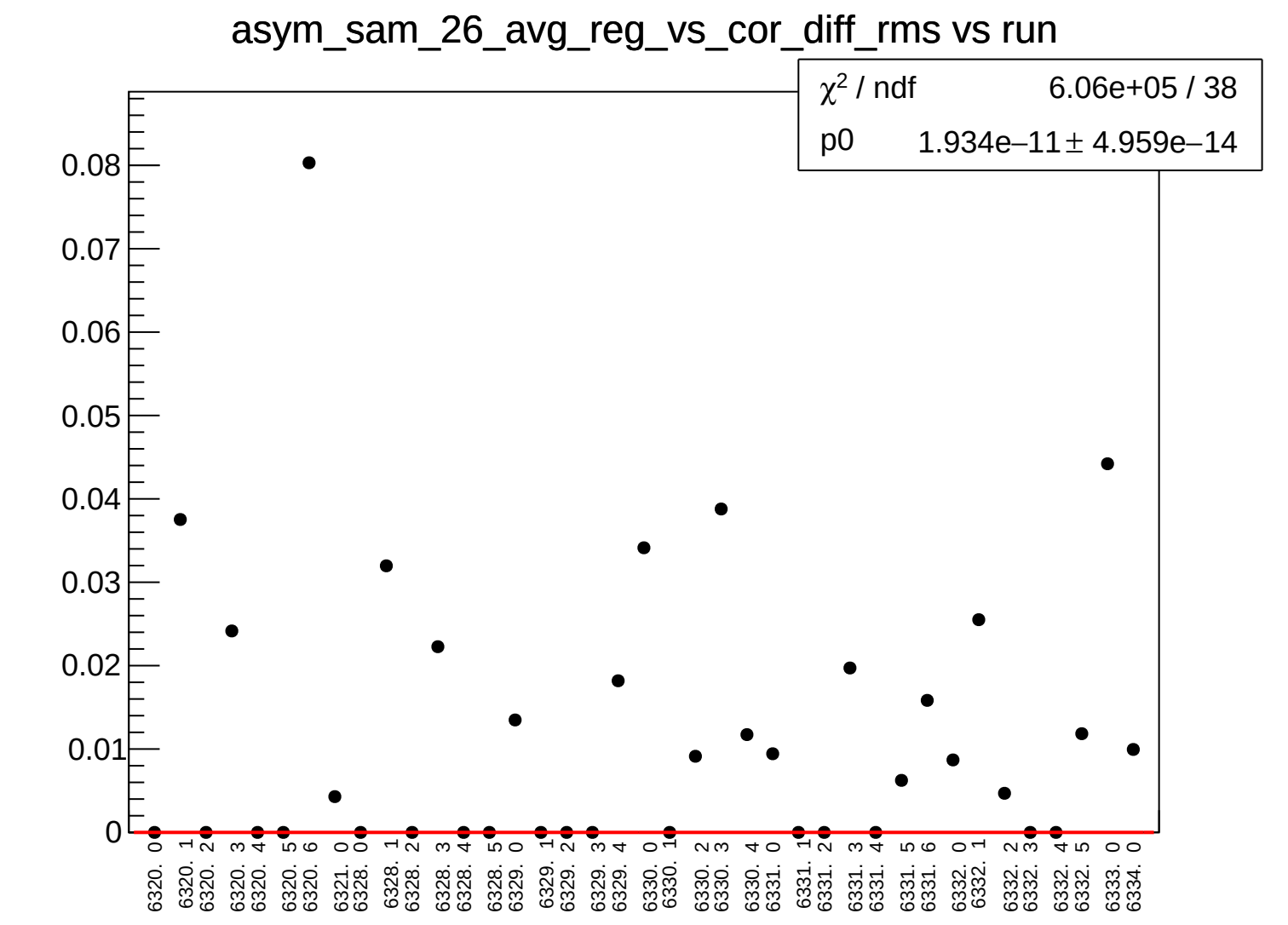

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.881e+04 / 38
p0 1038 ± 1.208
1700
1600
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

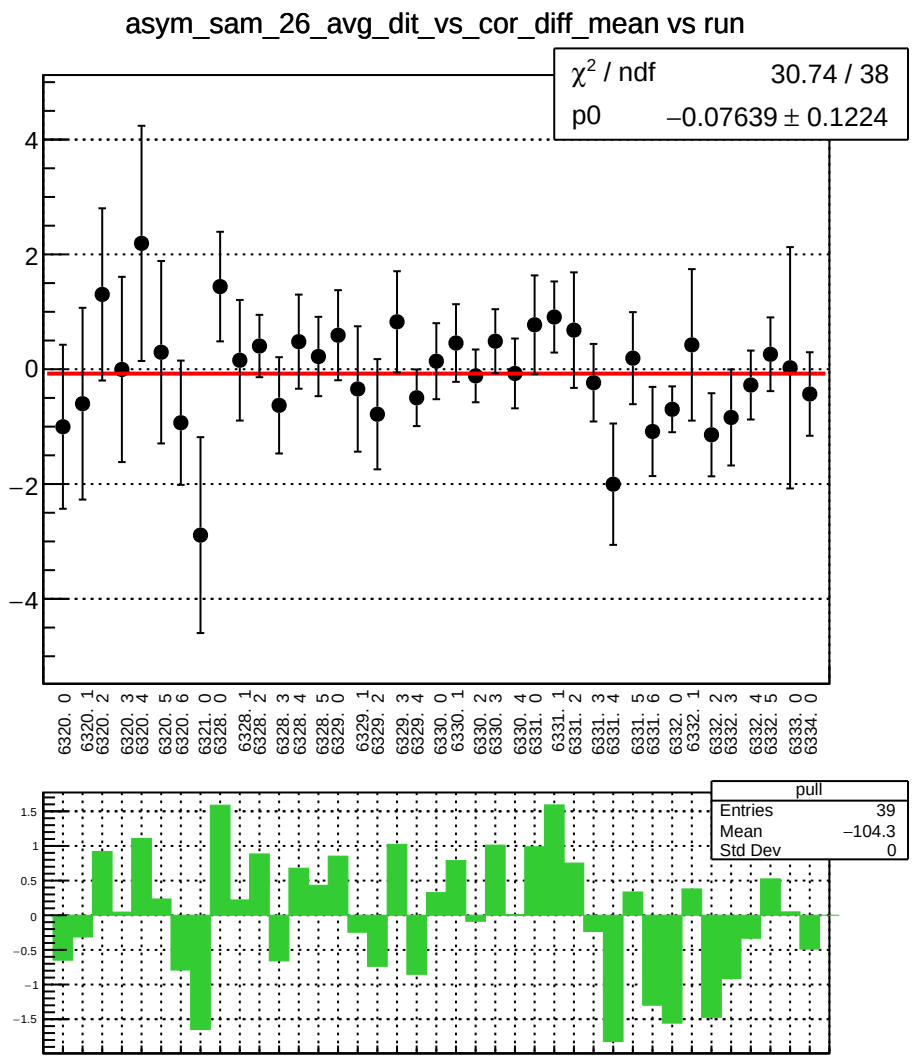

asym_sam_26_avg_mean vs run
χ² / ndf 28.24 / 38
p0 1587 ± 1605
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.27
Std Dev 25.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

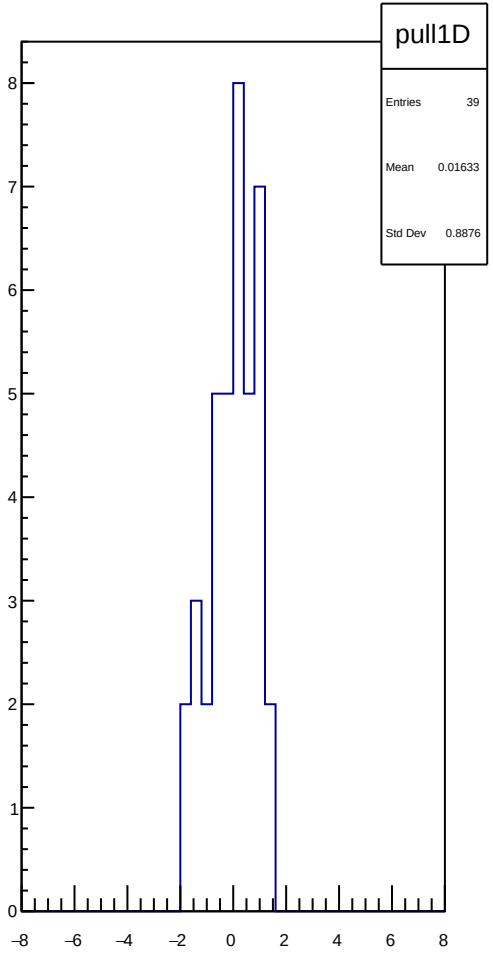

pull1D
Entries 39
Mean 0.02397
Std Dev 0.8506
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

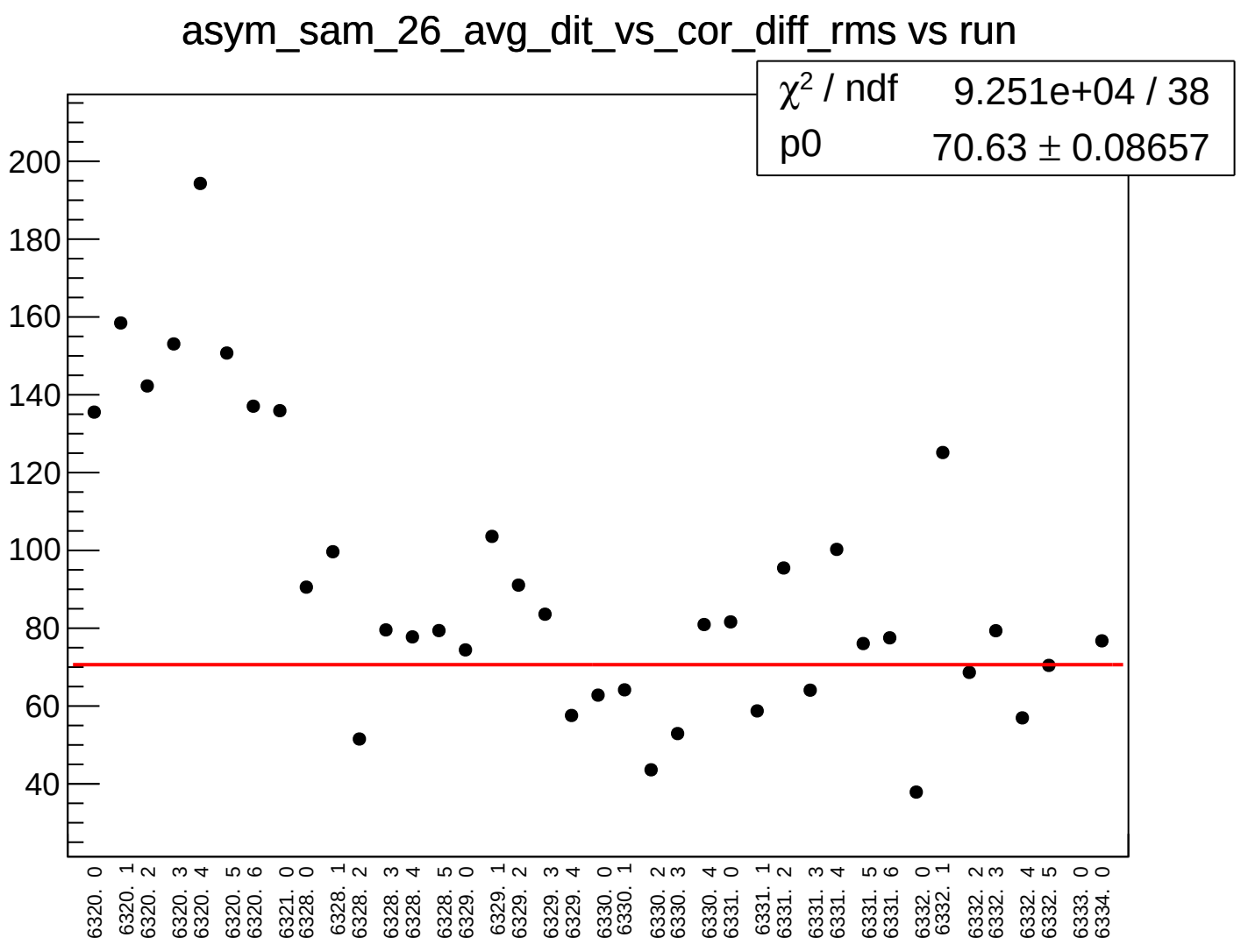

asym_sam_26_avg_rms vs run
χ² / ndf 2.514e+04 / 38
p0 971.6 ± 1.135
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

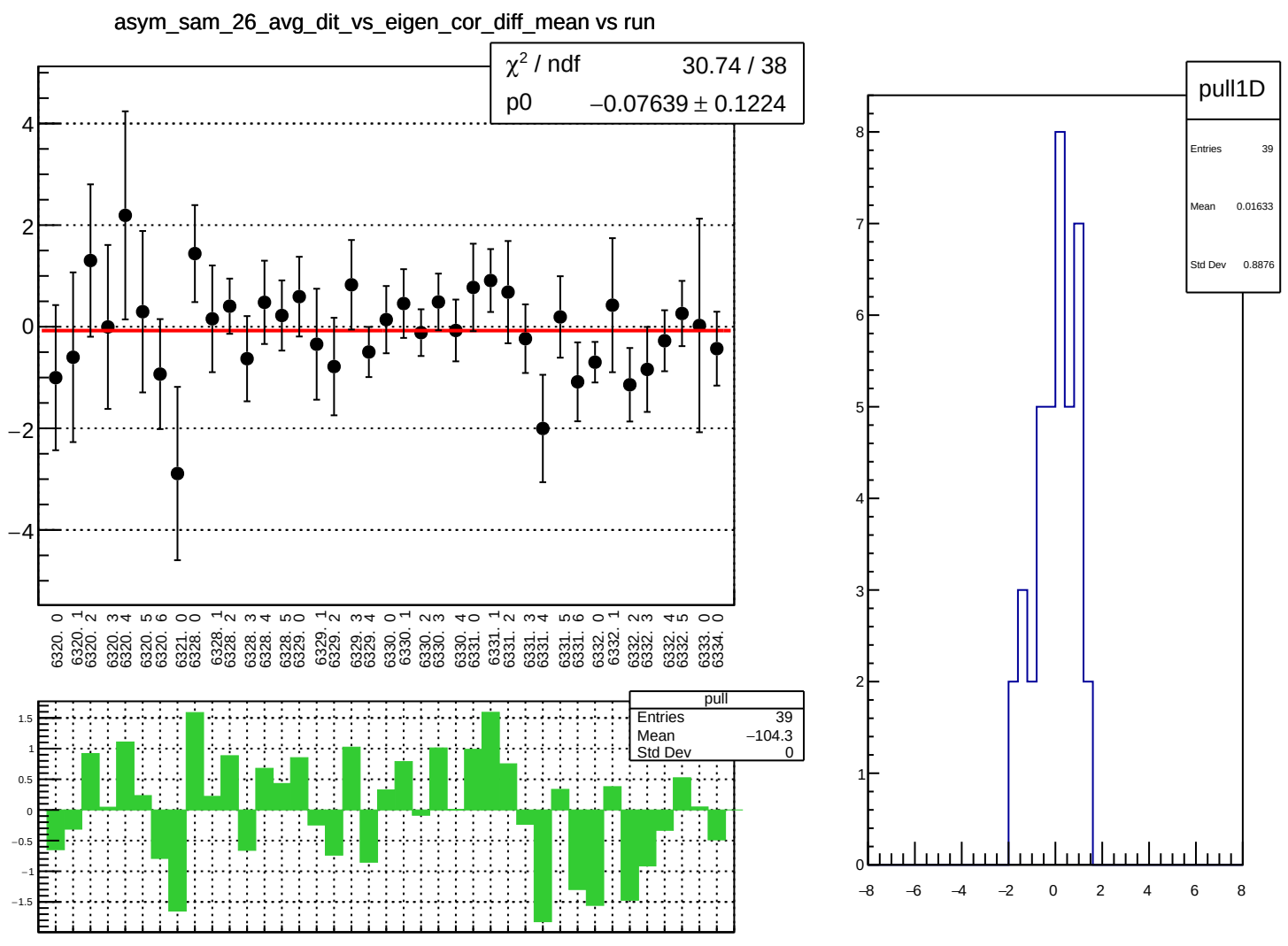

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.67 / 38
p0 −1.08e−14 ± 7.013e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −509.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.005786
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

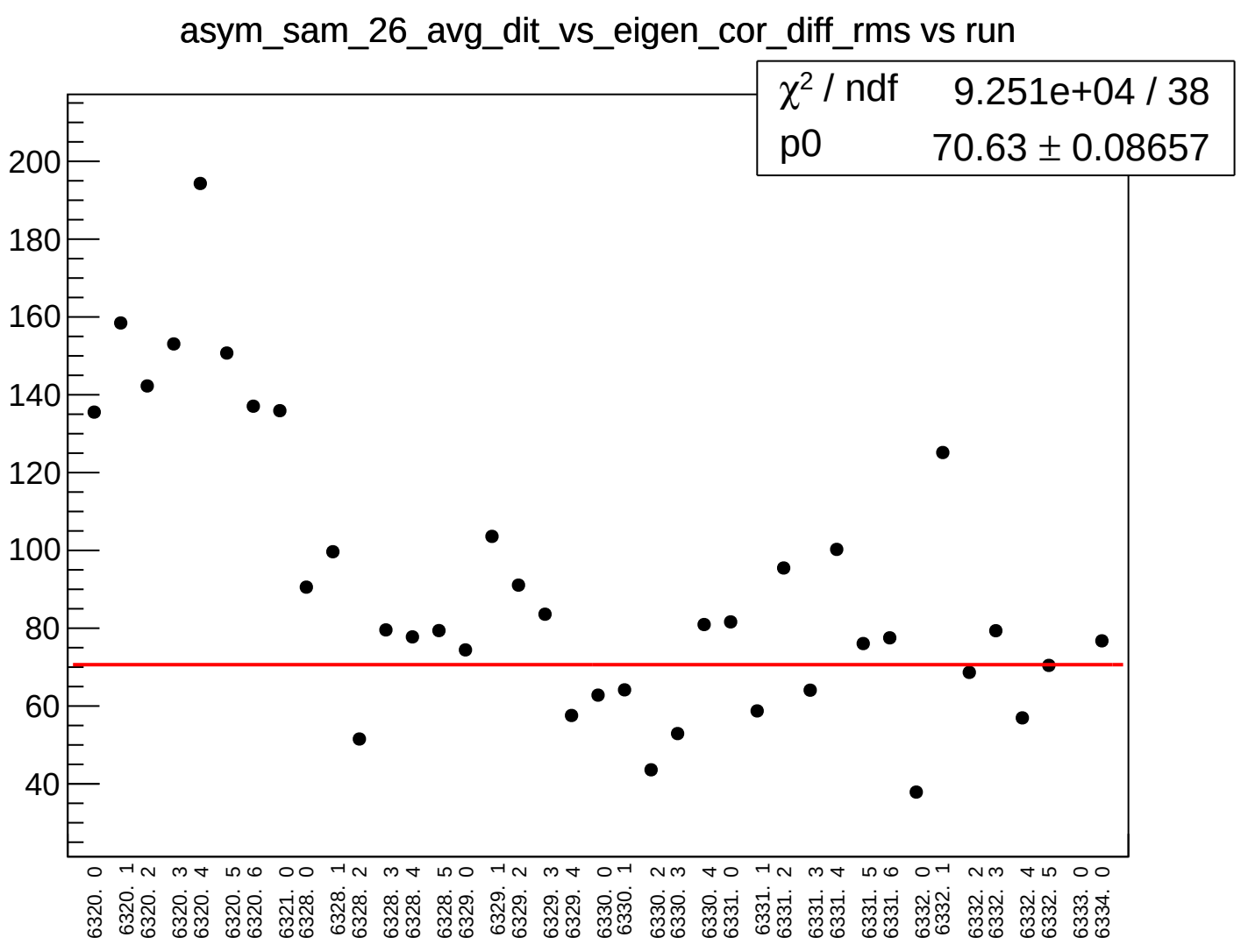

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.06e+05 / 38
p0 1.934e−11 ± 4.959e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

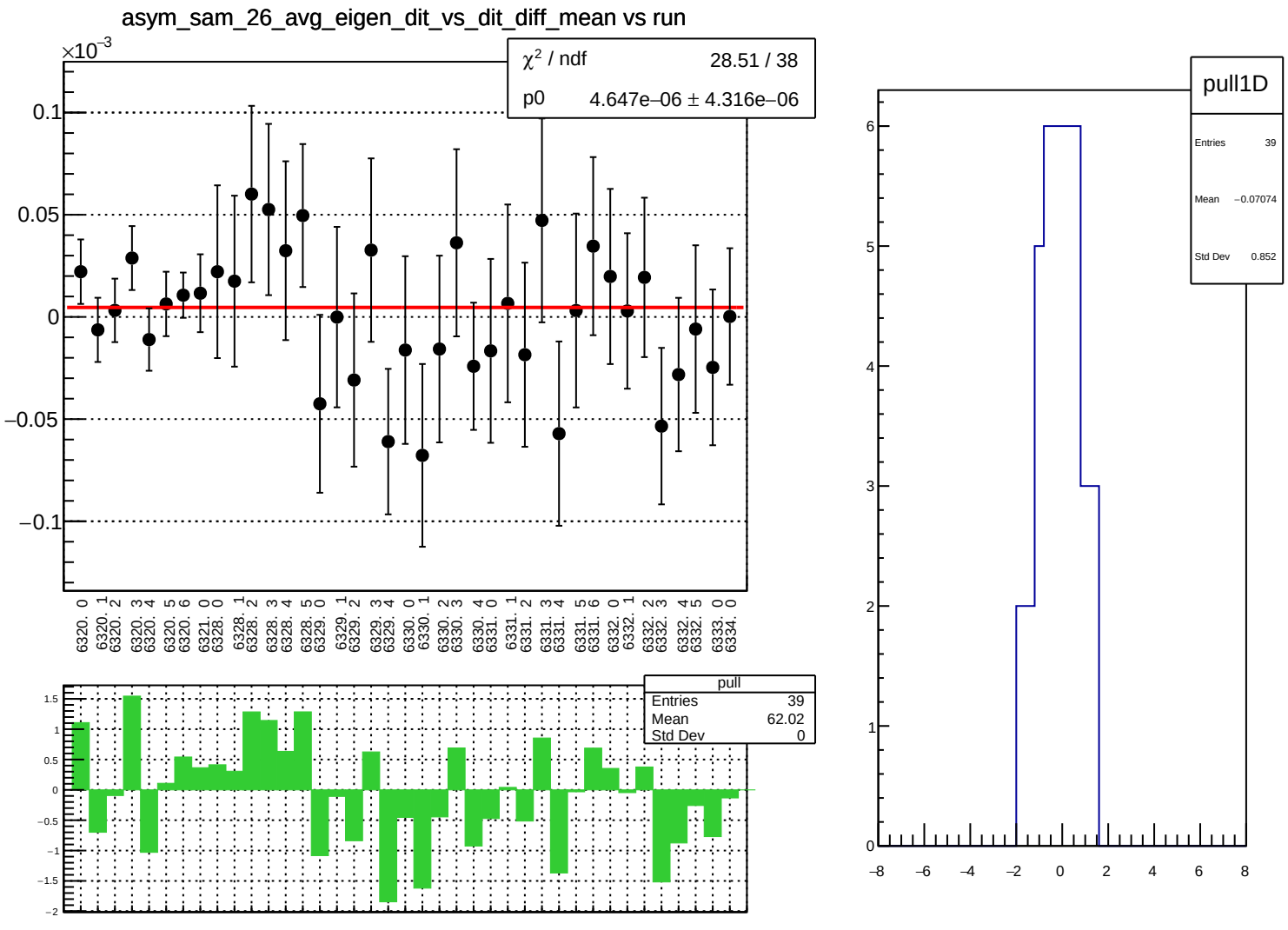

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.74 / 38
p0 −0.07639 ± 0.1224
pull
Entries 39
Mean −104.3
Std Dev 0

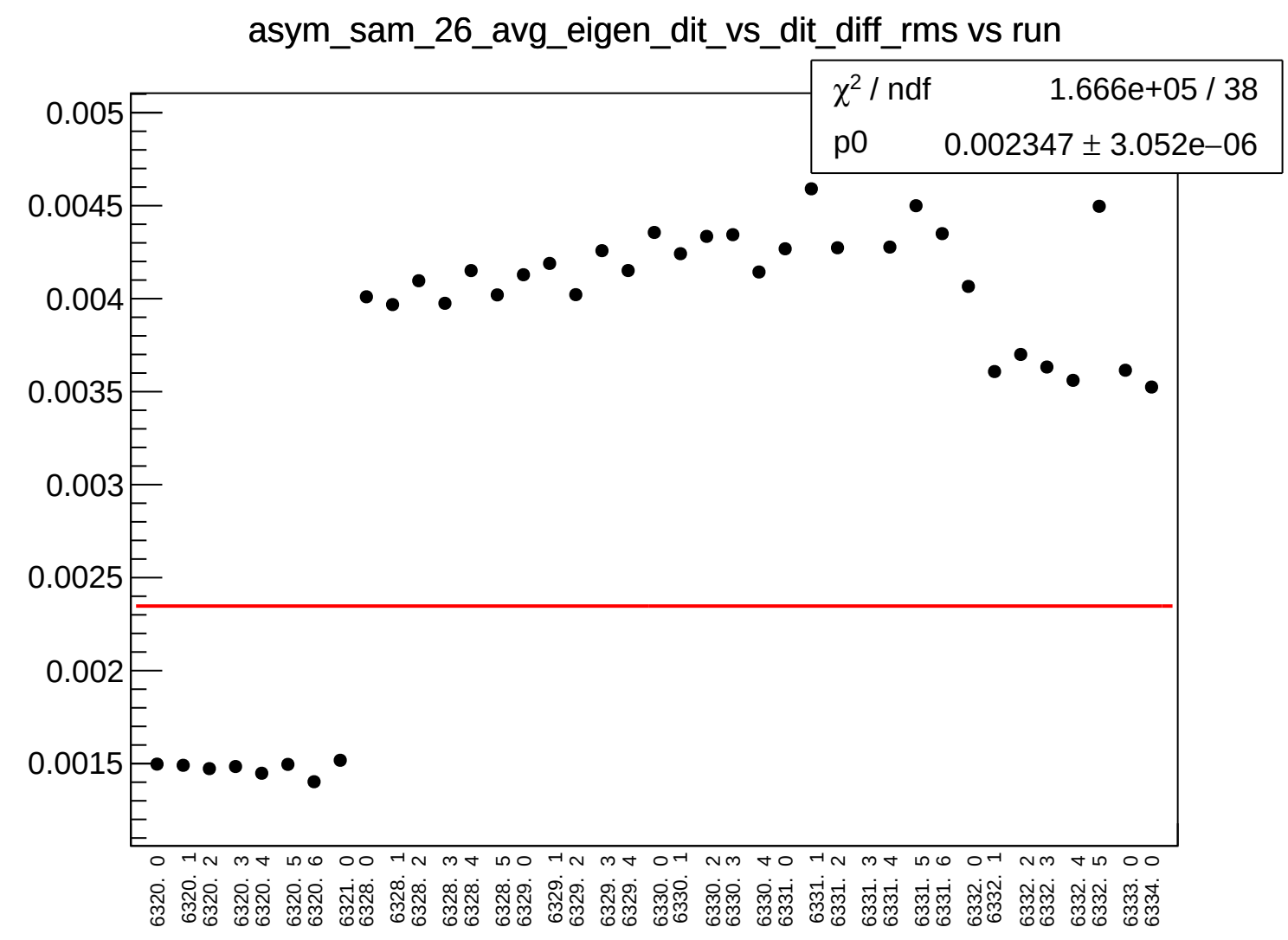

pull1D
Entries 39
Mean 0.01633
Std Dev 0.8876

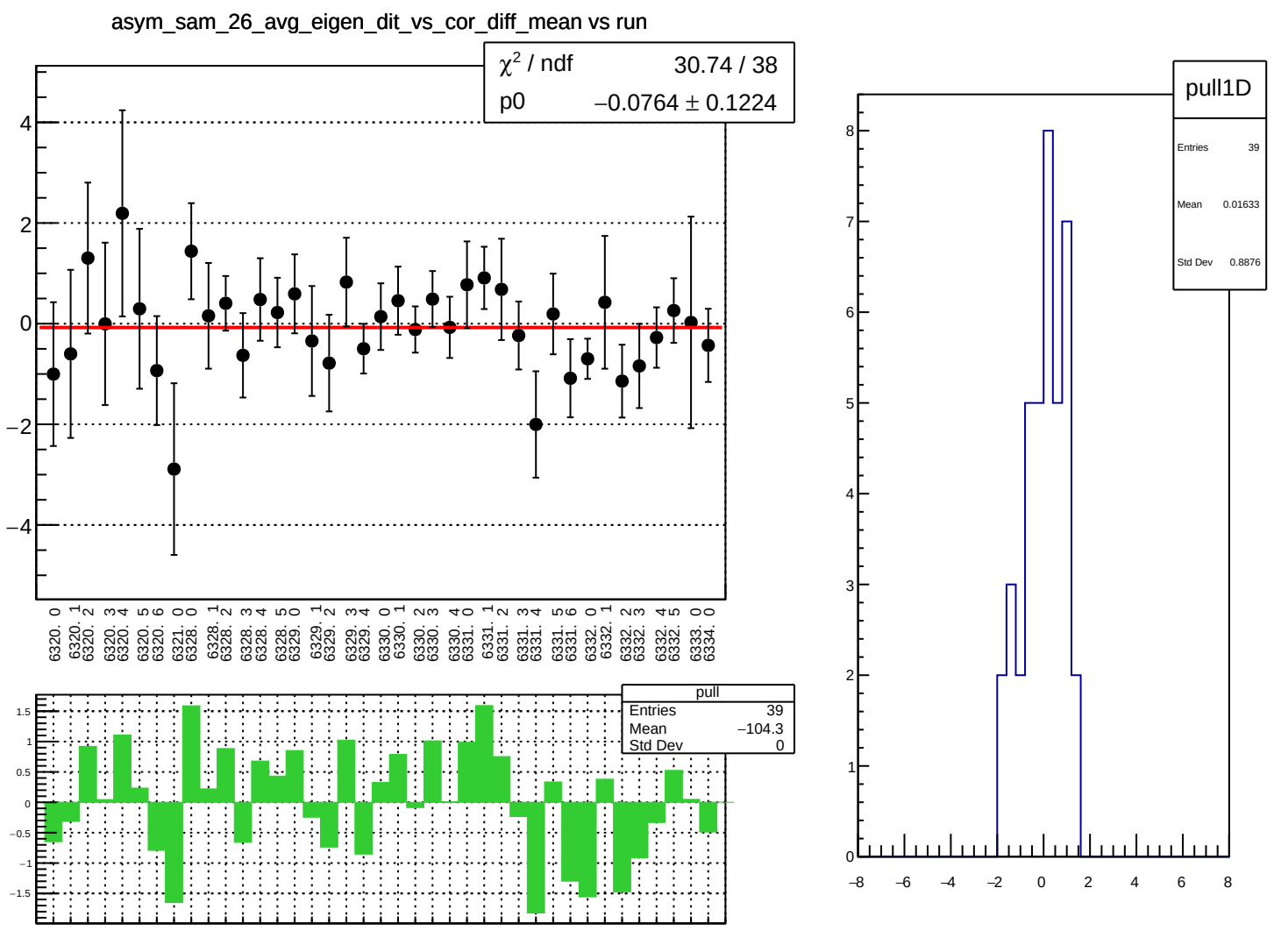

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.251e+04 / 38
p0 70.63 ± 0.08657
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

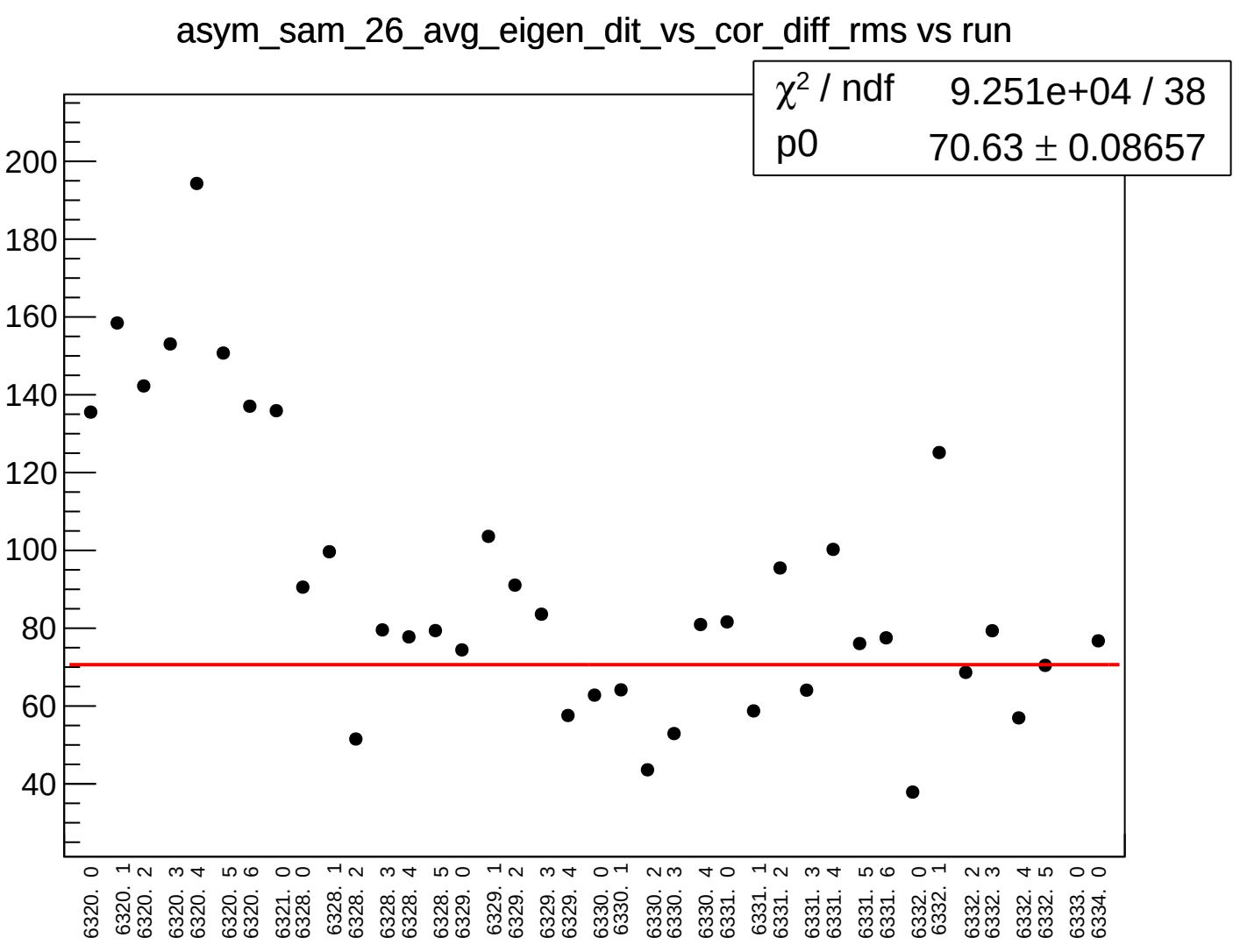

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.74 / 38
p0 −0.07639 ± 0.1224
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01633
Std Dev 0.8876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

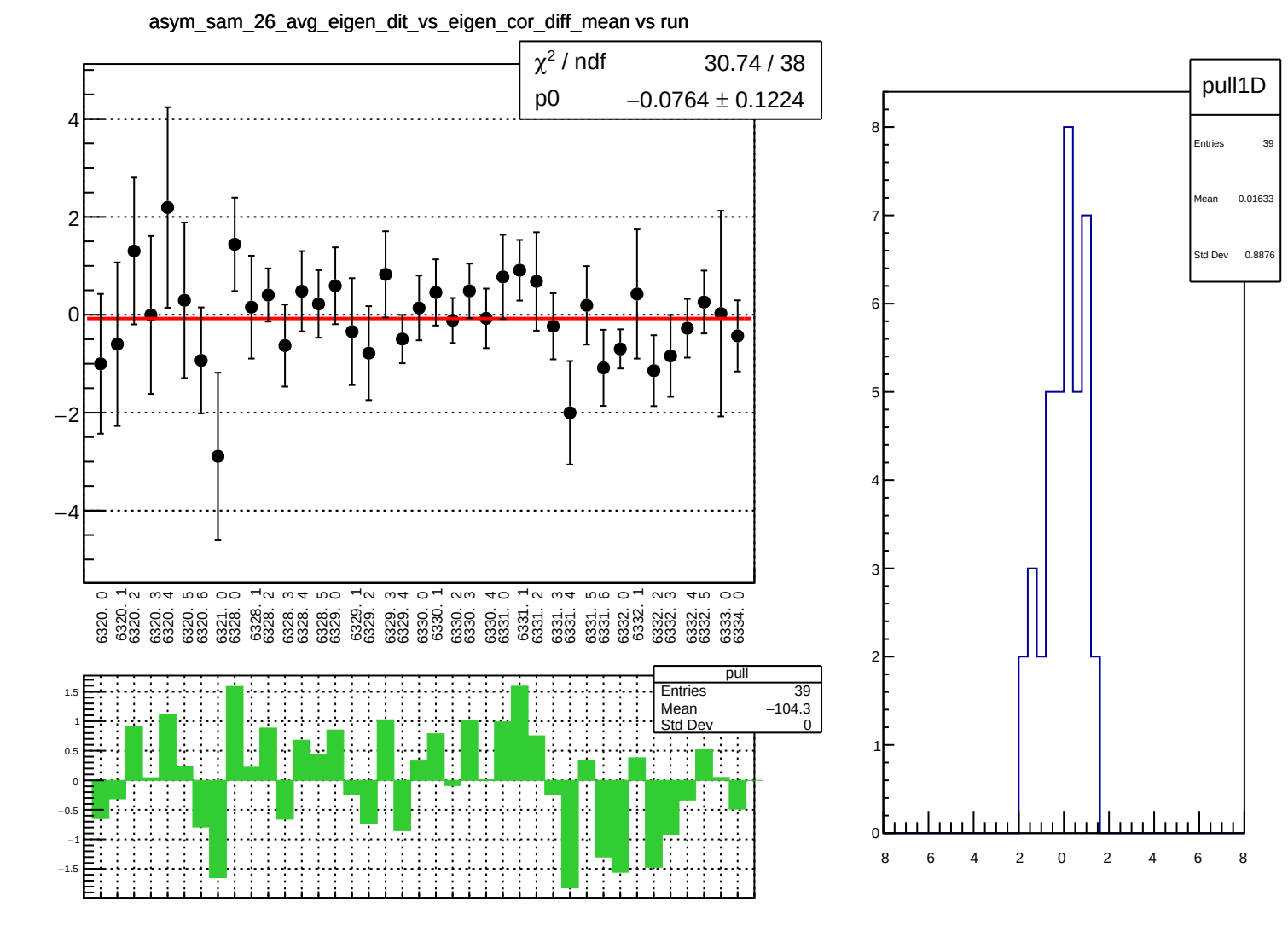

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.251e+04 / 38
p0 70.63 ± 0.08657
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

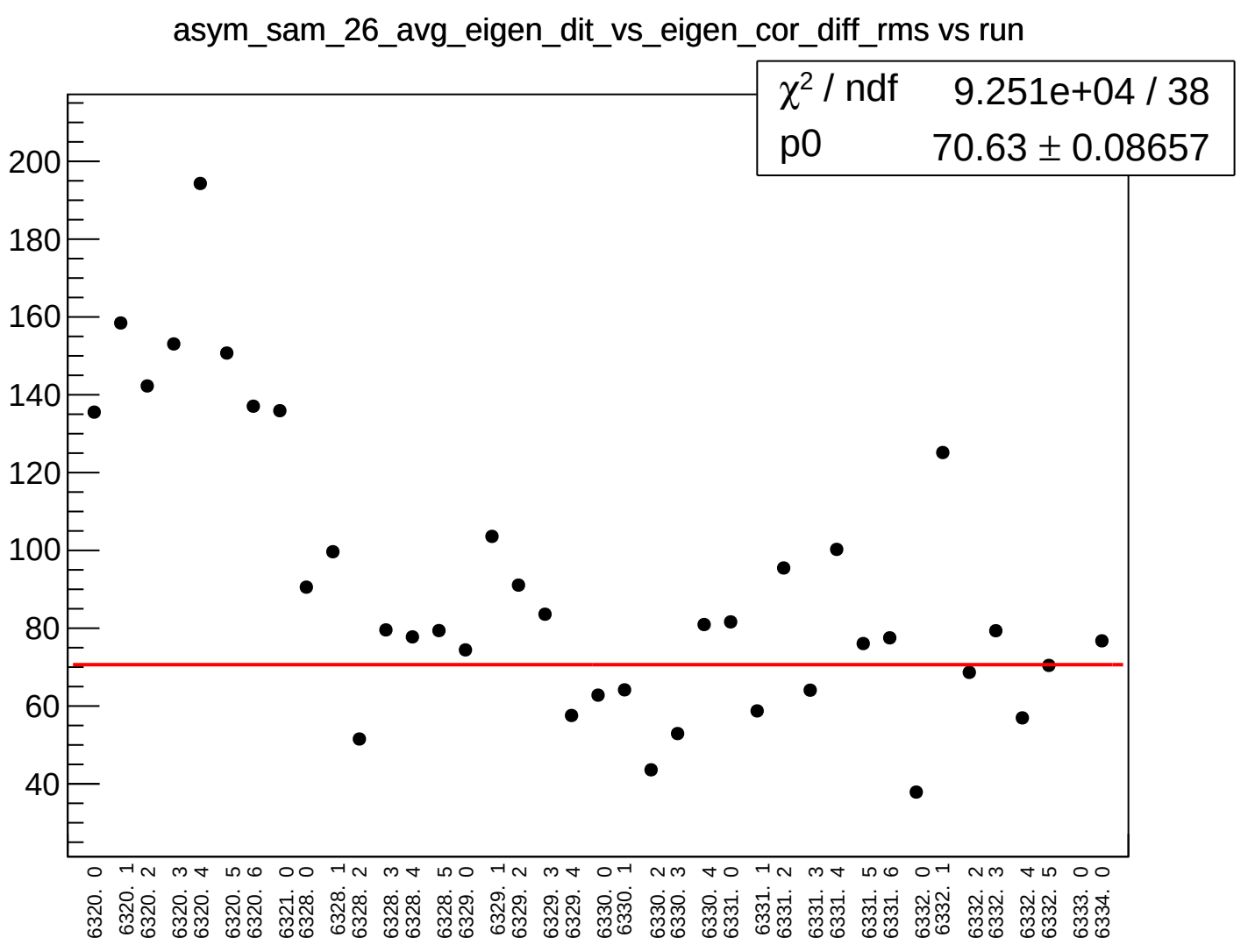

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.51 / 38
p0 4.647e−06 ± 4.316e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 62.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.07074
Std Dev 0.852
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

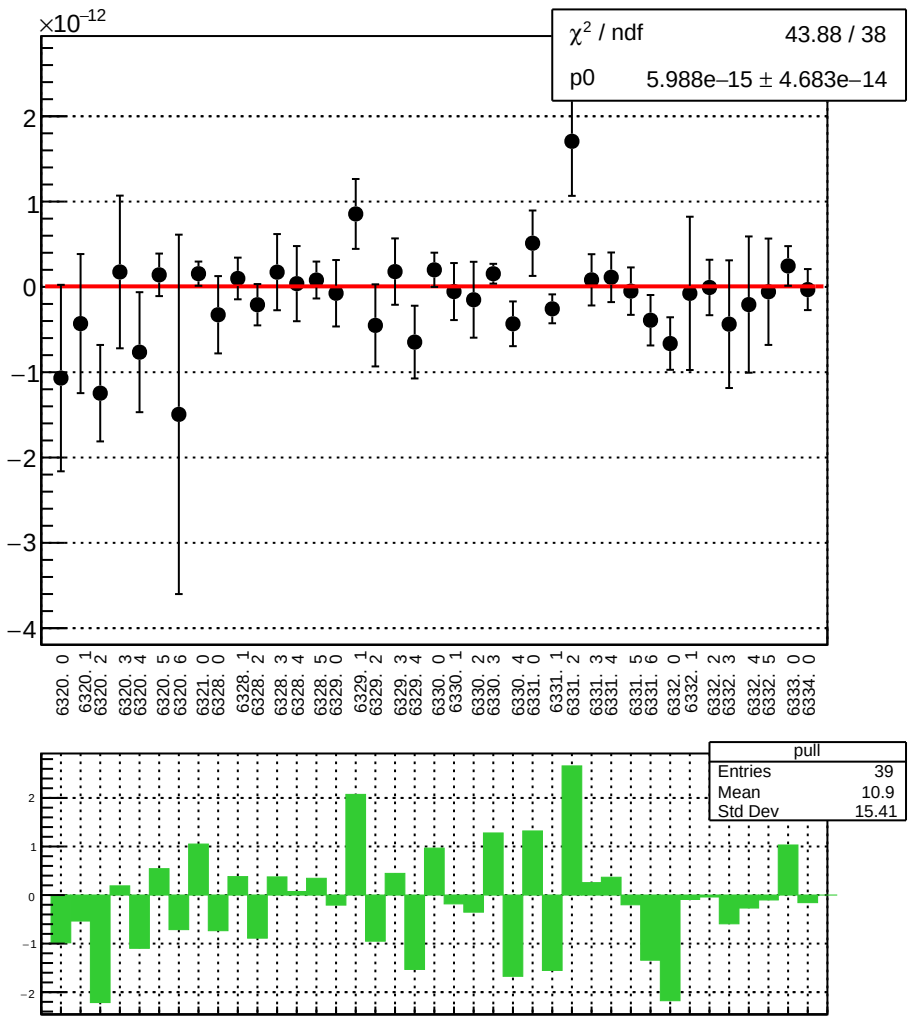

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.666e+05 / 38
p0 0.002347 ± 3.052e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

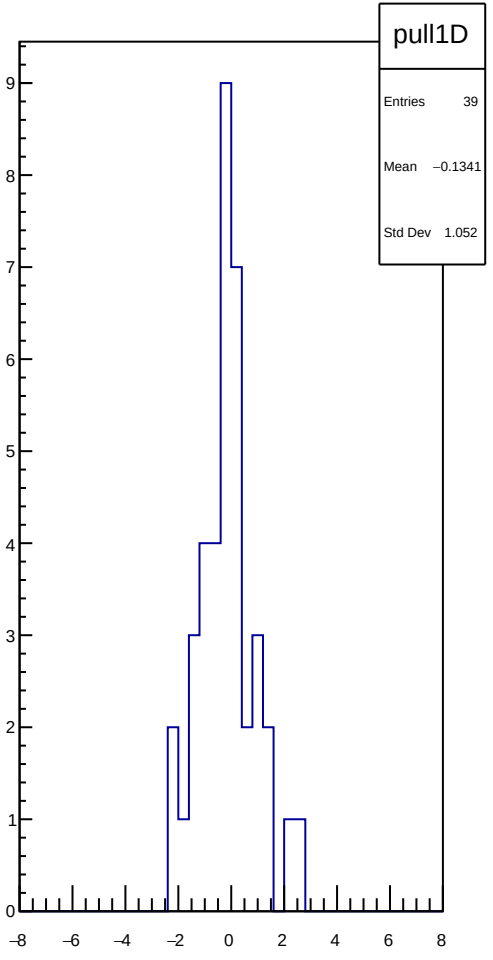

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.74 / 38
p0 −0.0764 ± 0.1224
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01633
Std Dev 0.8876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

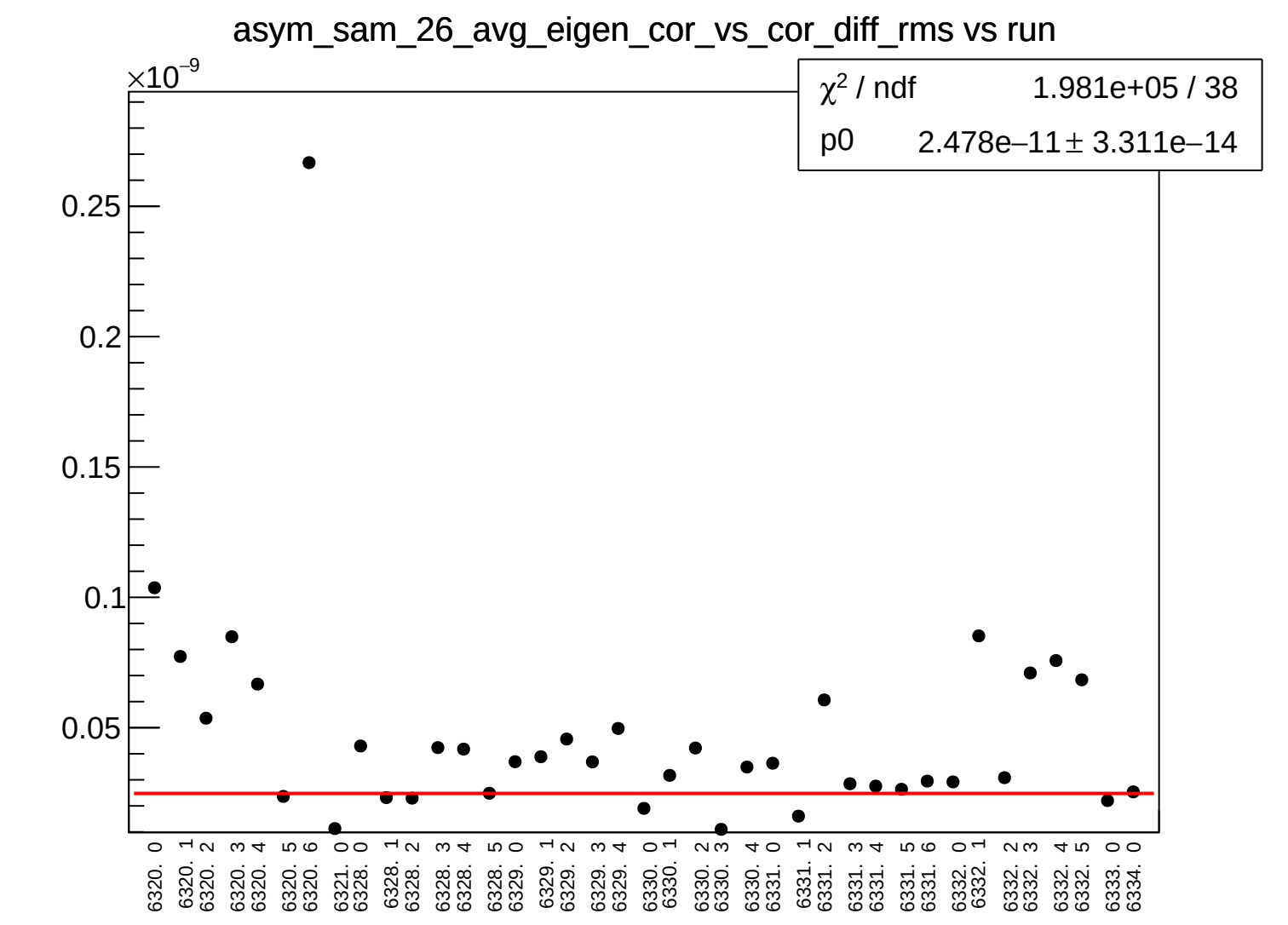

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.251e+04 / 38
p0 70.63 ± 0.08657
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

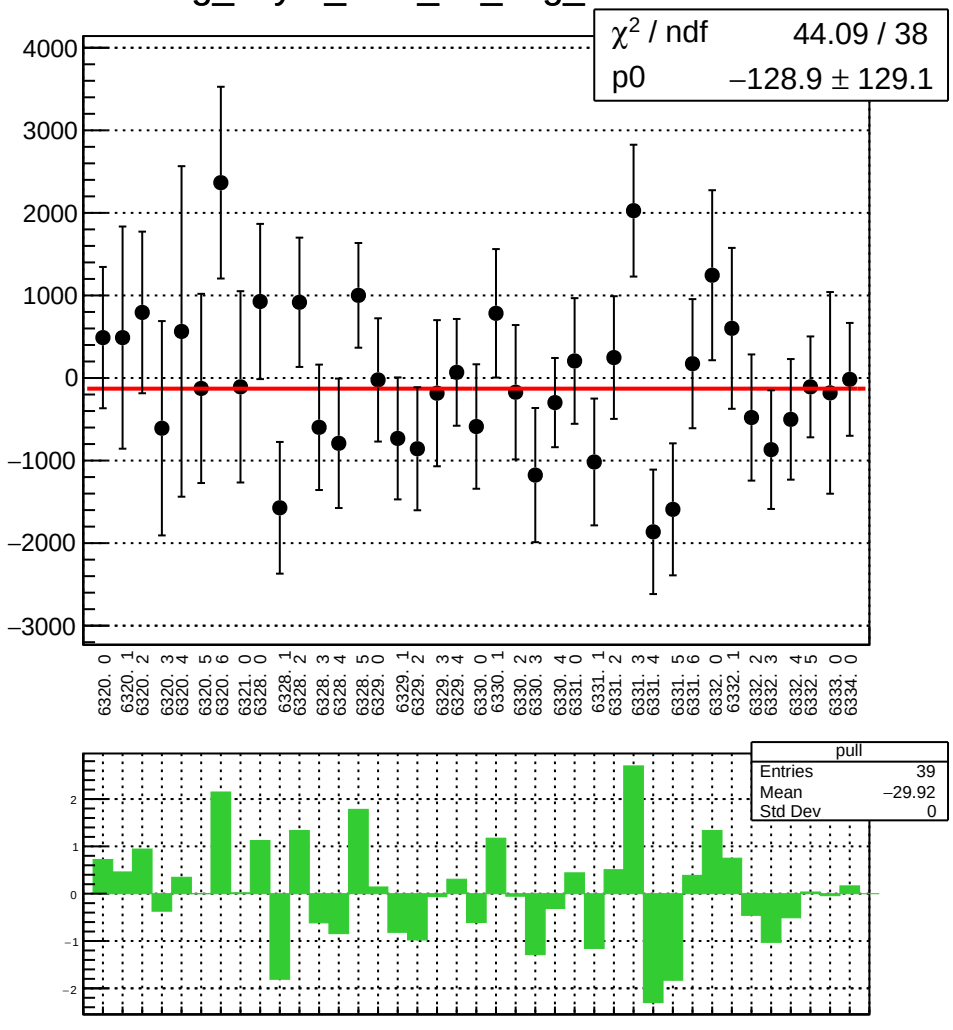

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.74 / 38
p0 −0.0764 ± 0.1224
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01633
Std Dev 0.8876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

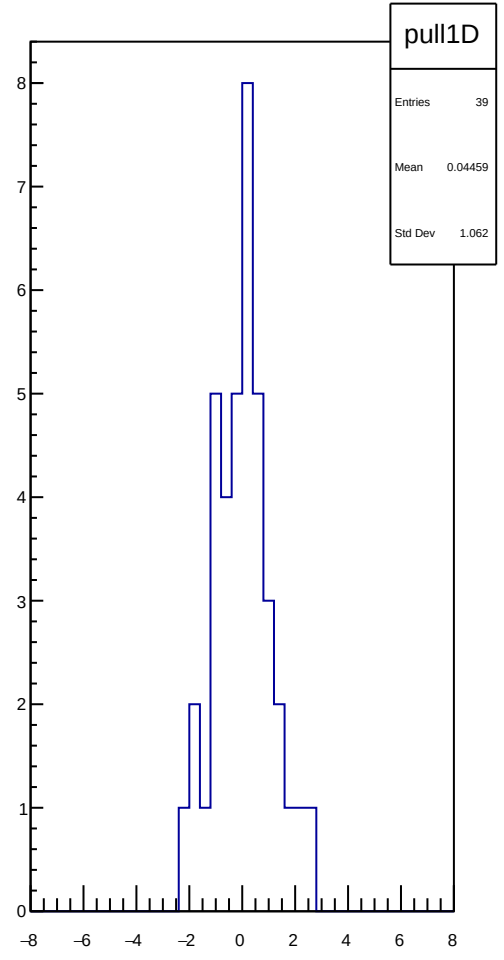

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.251e+04 / 38
p0 70.63 ± 0.08657
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

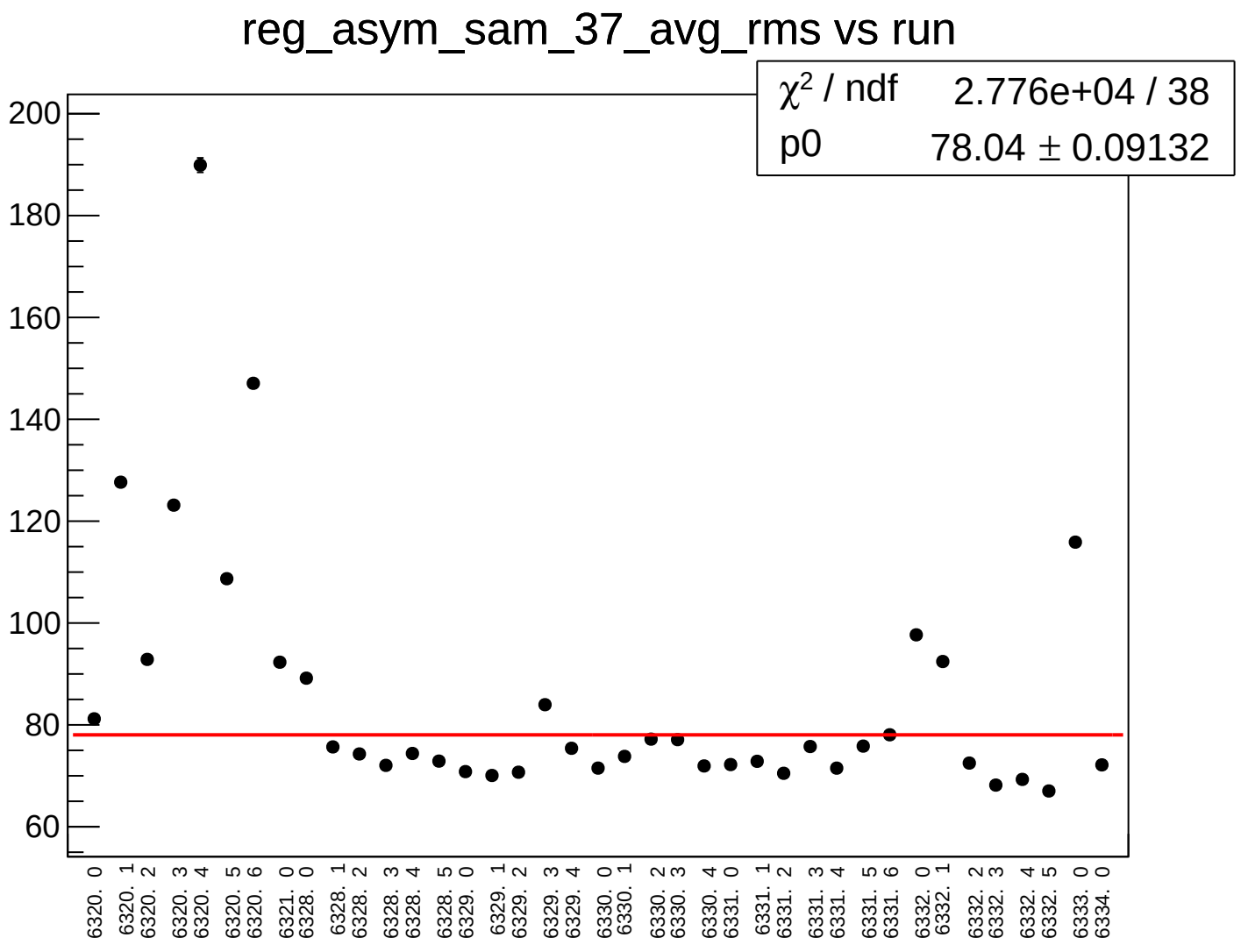

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.88 / 38
p0 5.988e−15 ± 4.683e−14
pull
Entries 39
Mean 10.9
Std Dev 15.41

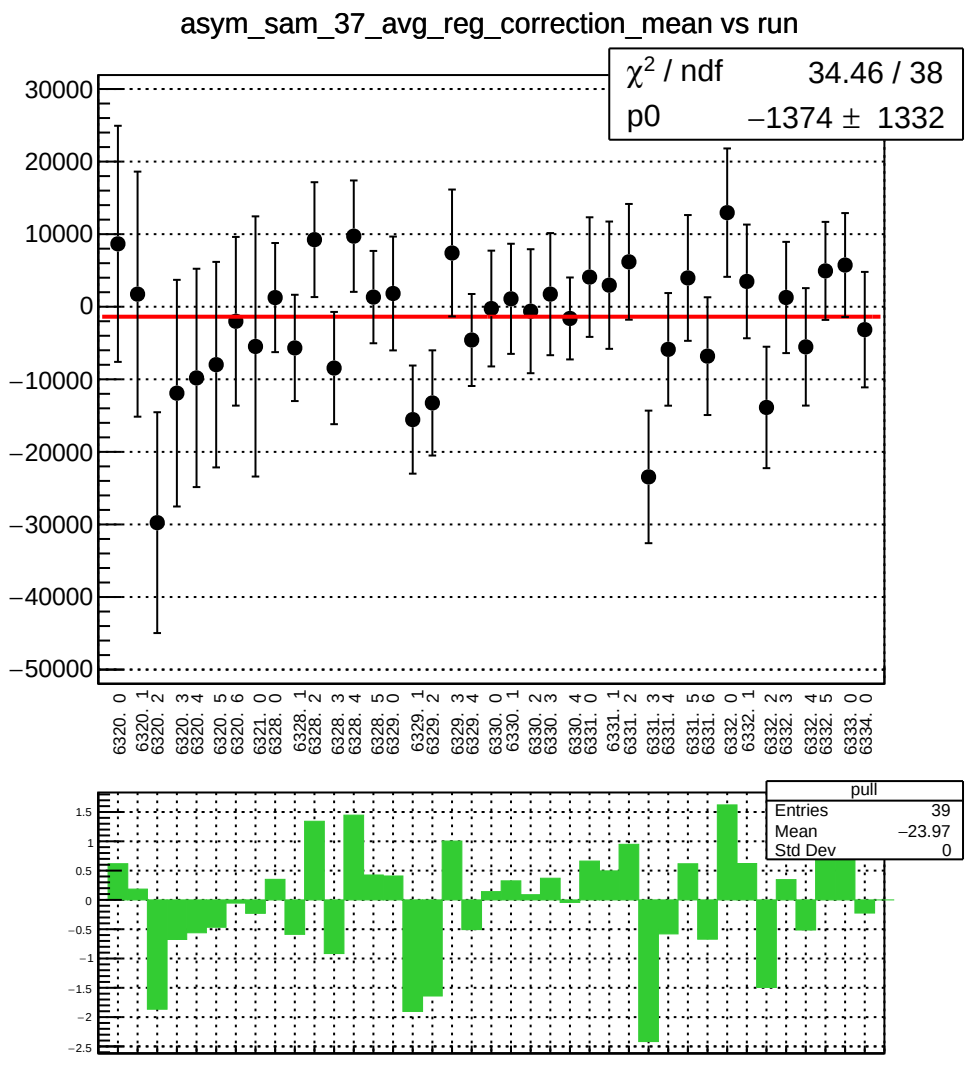

pull1D
Entries 39
Mean −0.1341
Std Dev 1.052

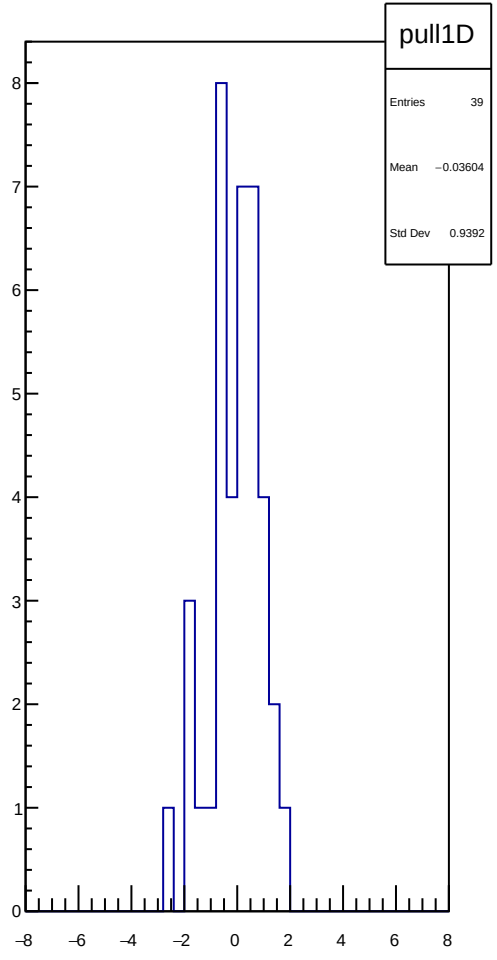

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.981e+05 / 38
p0 2.478e−11 ± 3.311e−14
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

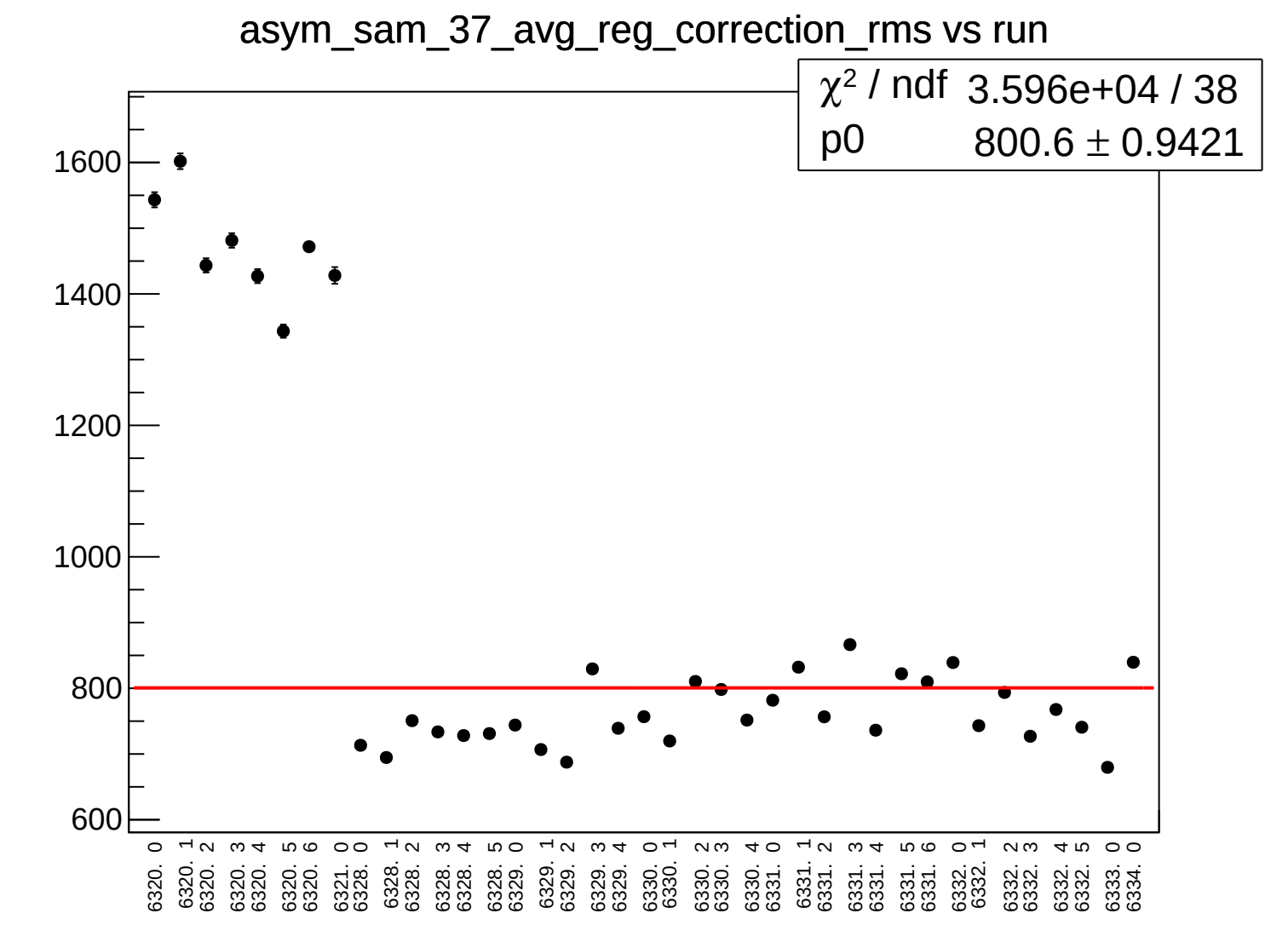

reg_asym_sam_37_avg_mean vs run
χ² / ndf 44.09 / 38
p0 −128.9 ± 129.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −29.92
Std Dev 0
2
1
0
−1
−2

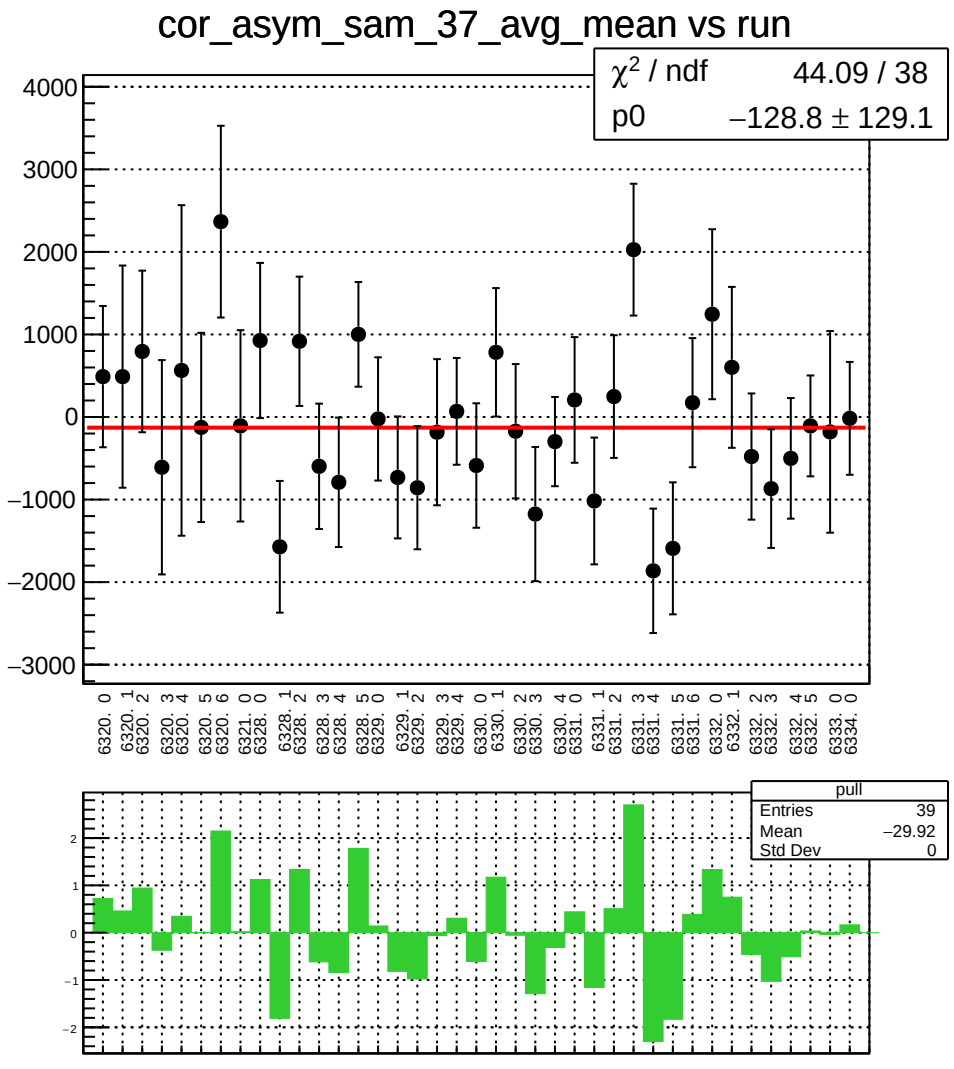

pull1D
Entries 39
Mean 0.04459
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

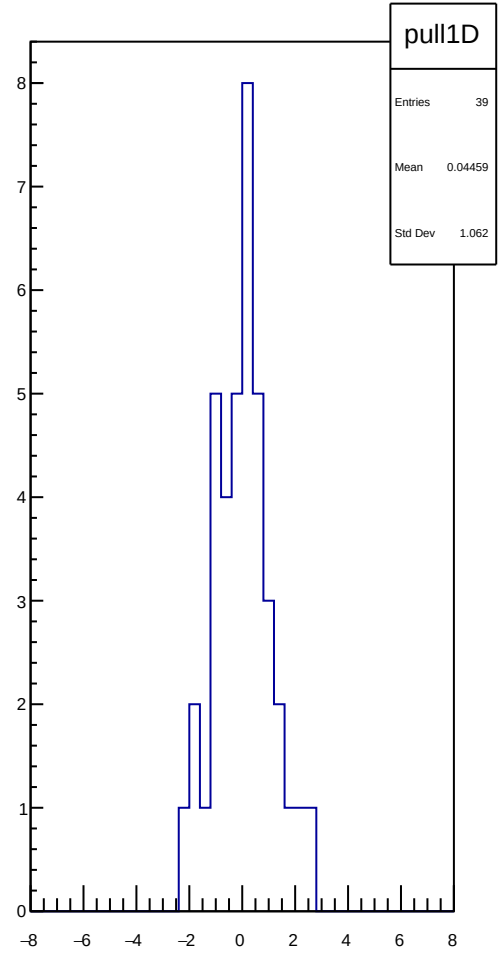

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.776e+04 / 38
p0 78.04 ± 0.09132
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

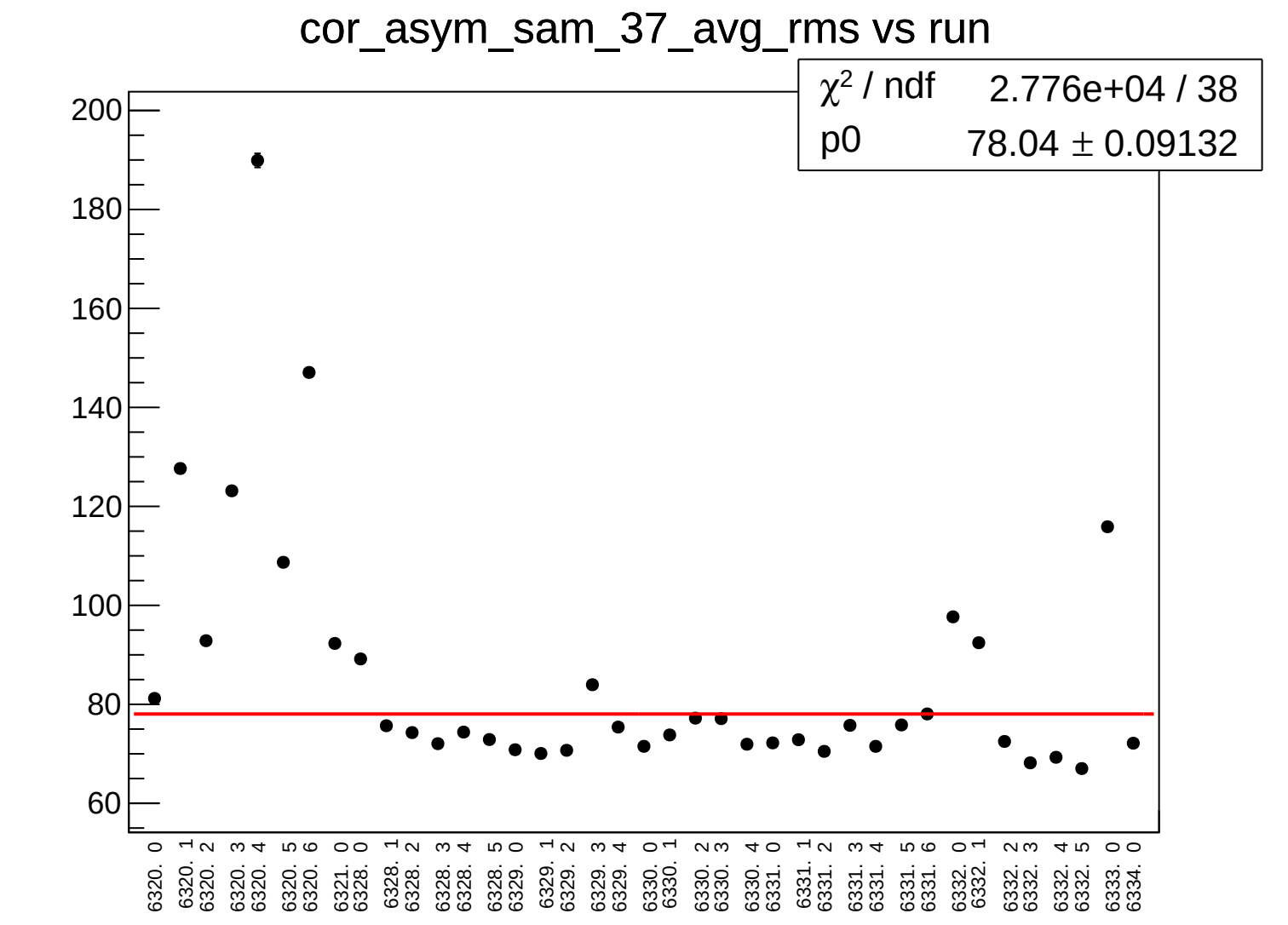

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 34.46 / 38
p0 −1374 ± 1332
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

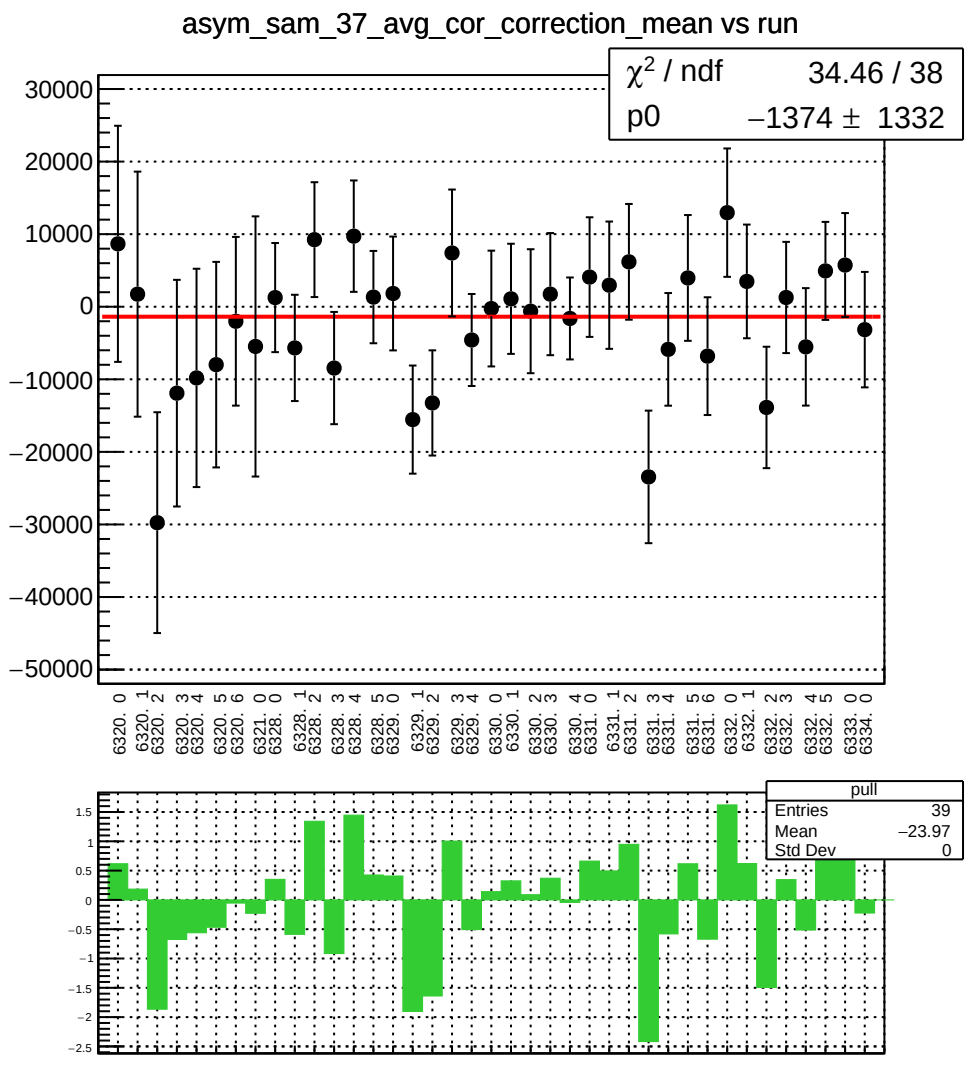

pull1D
Entries 39
Mean −0.03604
Std Dev 0.9392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

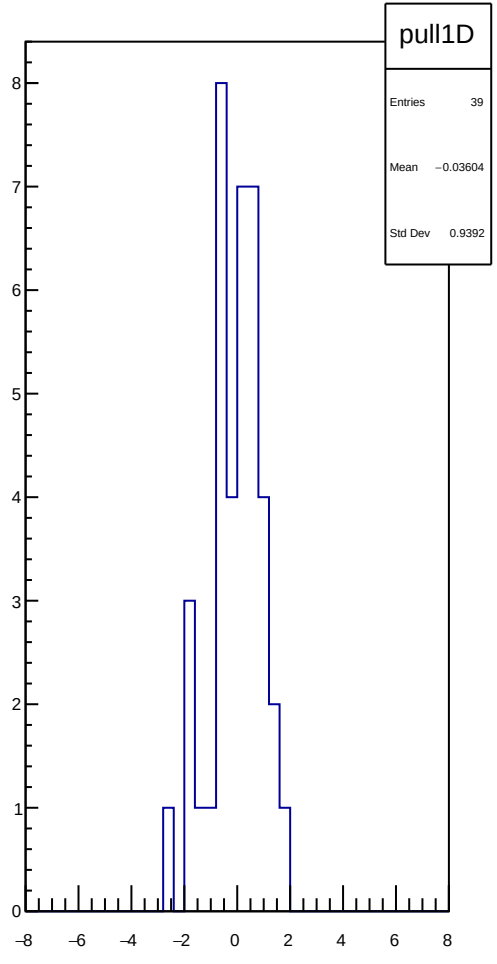

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3.596e+04 / 38
p0 800.6 ± 0.9421
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

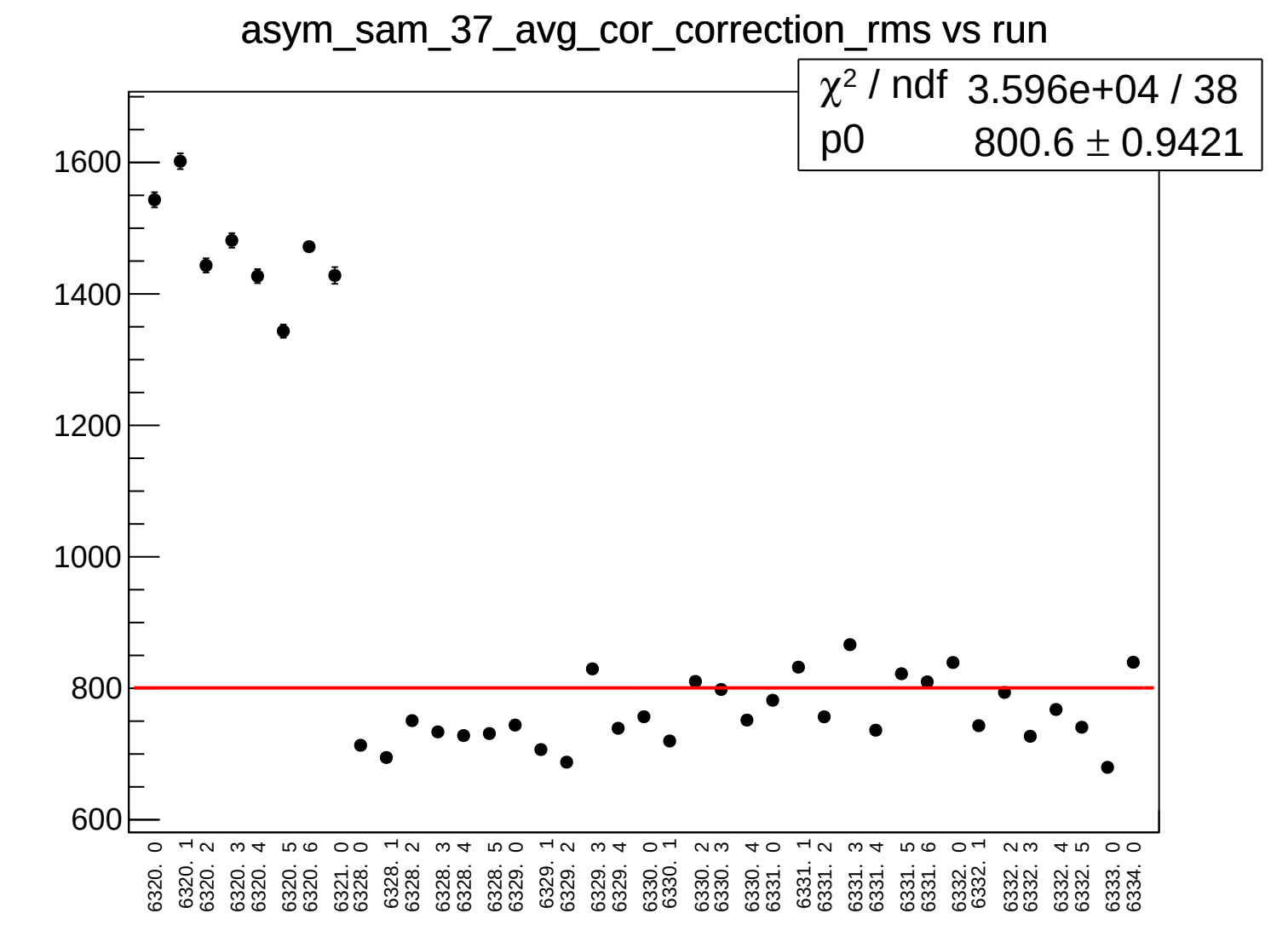

cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.09 / 38
p0 −128.8 ± 129.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −29.92
Std Dev 0
2
1
0
−1
−2

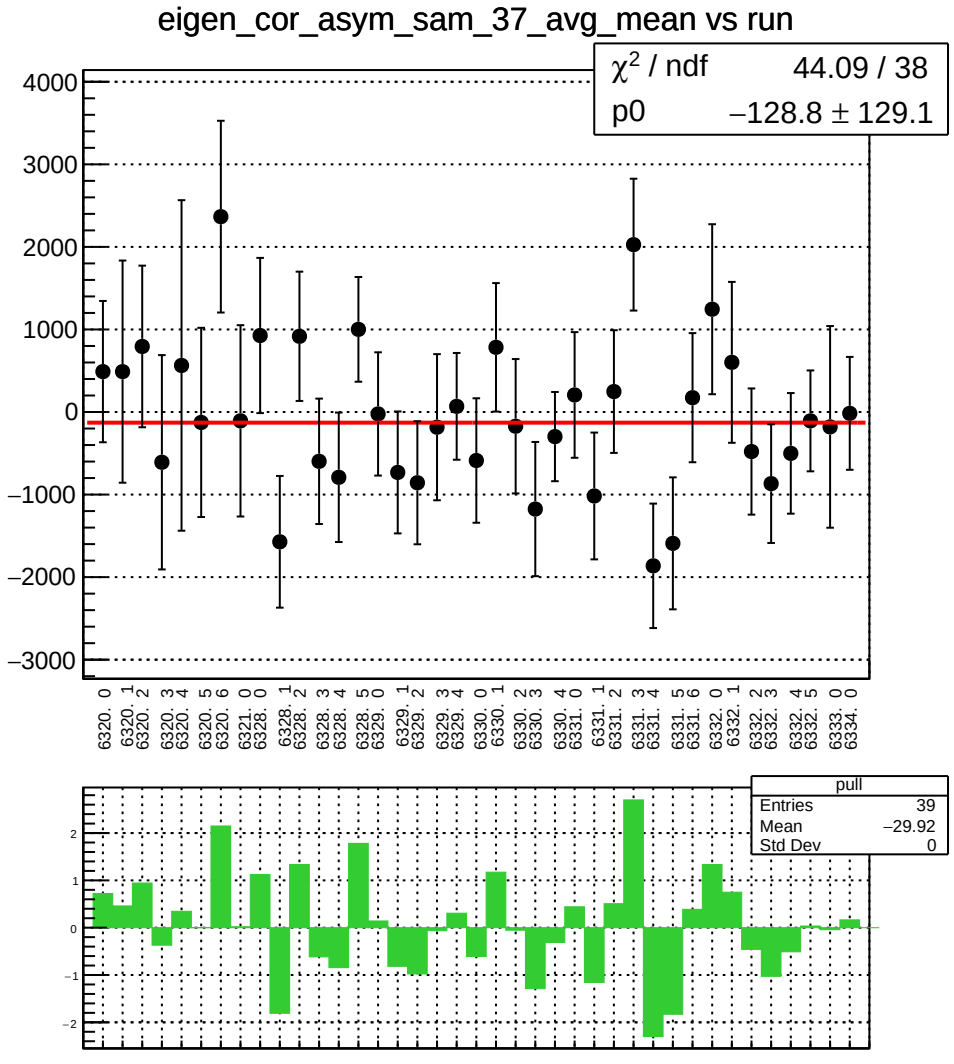

pull1D
Entries 39
Mean 0.04459
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

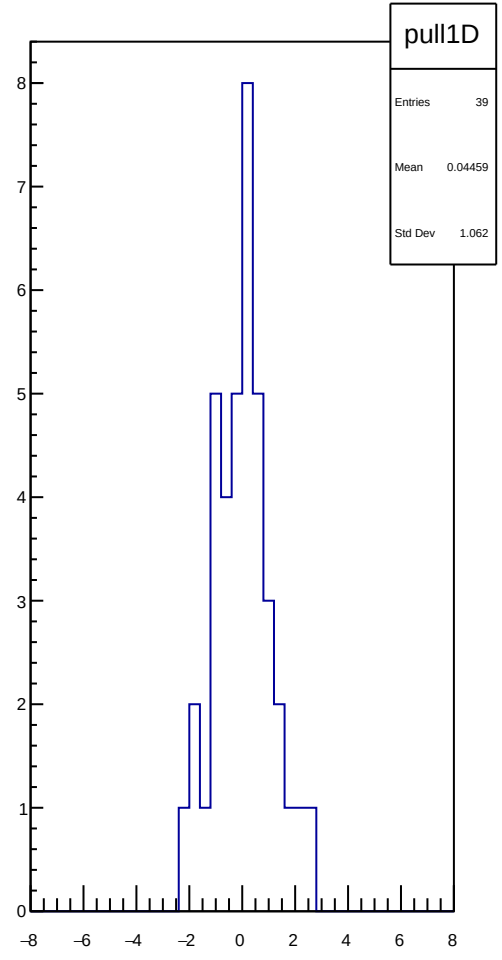

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.776e+04 / 38
p0 78.04 ± 0.09132
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

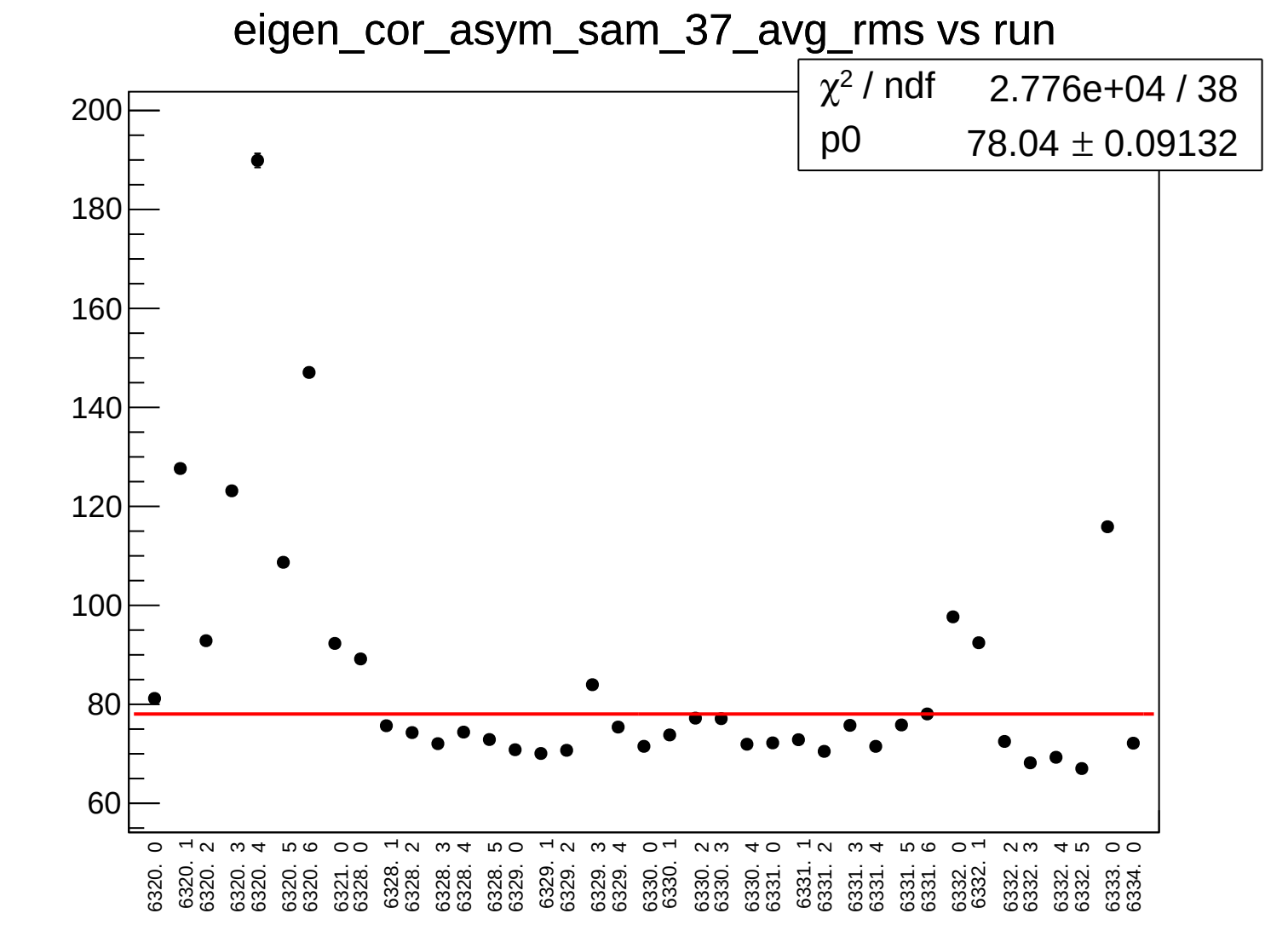

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 34.46 / 38
p0 −1374 ± 1332
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

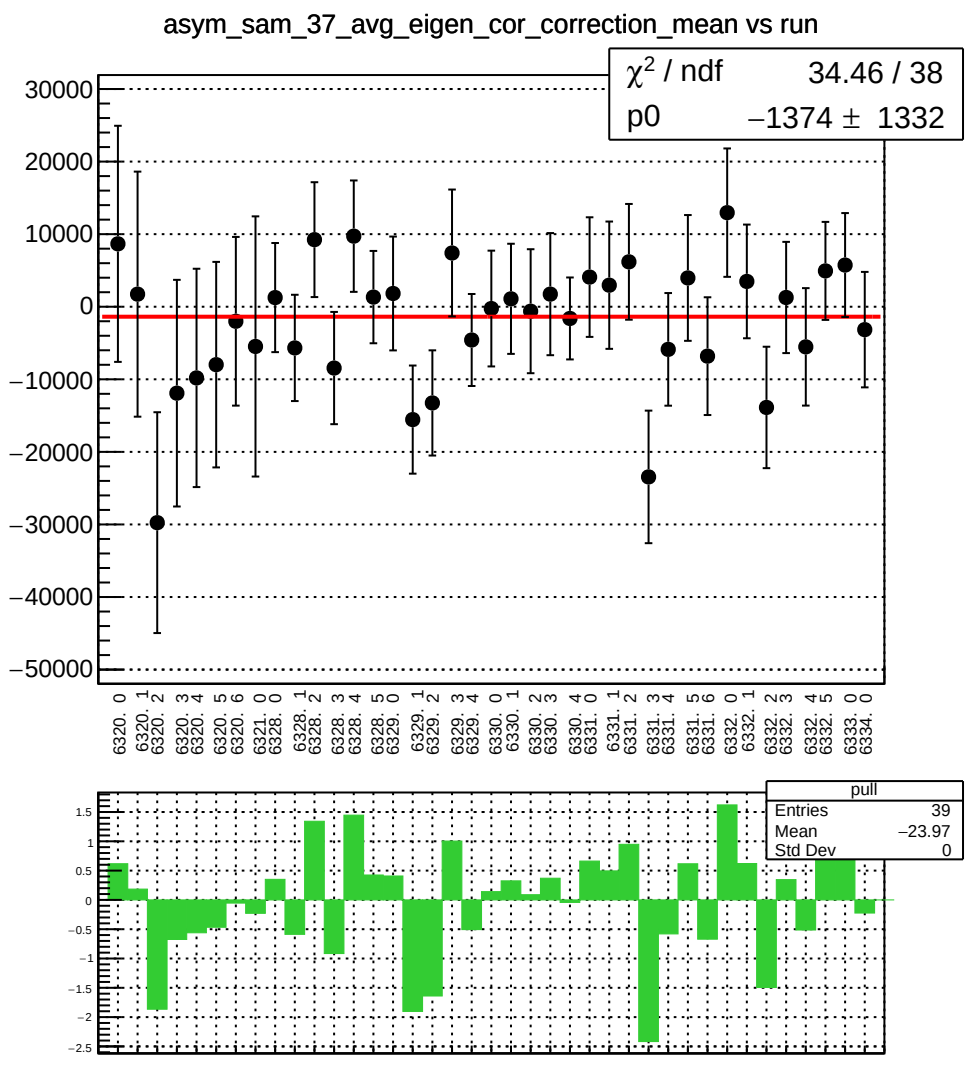

pull1D
Entries 39
Mean −0.03604
Std Dev 0.9392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

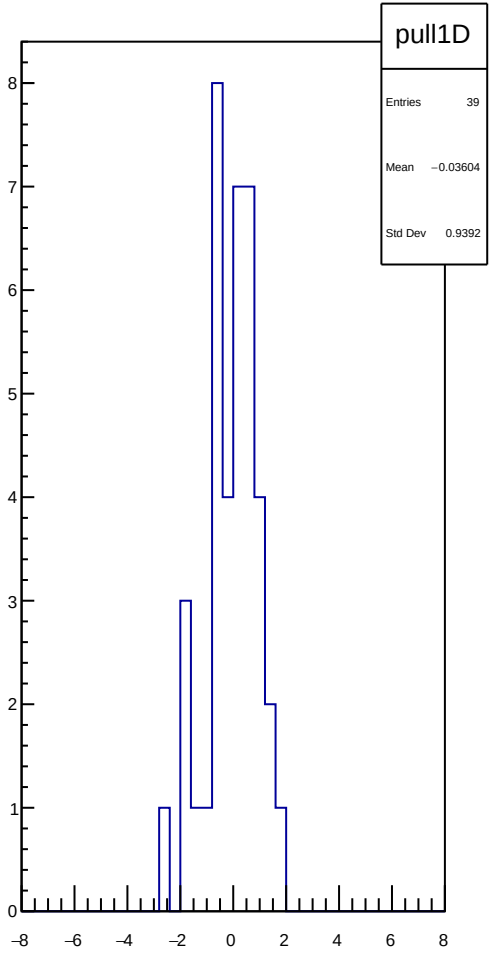

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3.596e+04 / 38
p0 800.6 ± 0.9421
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

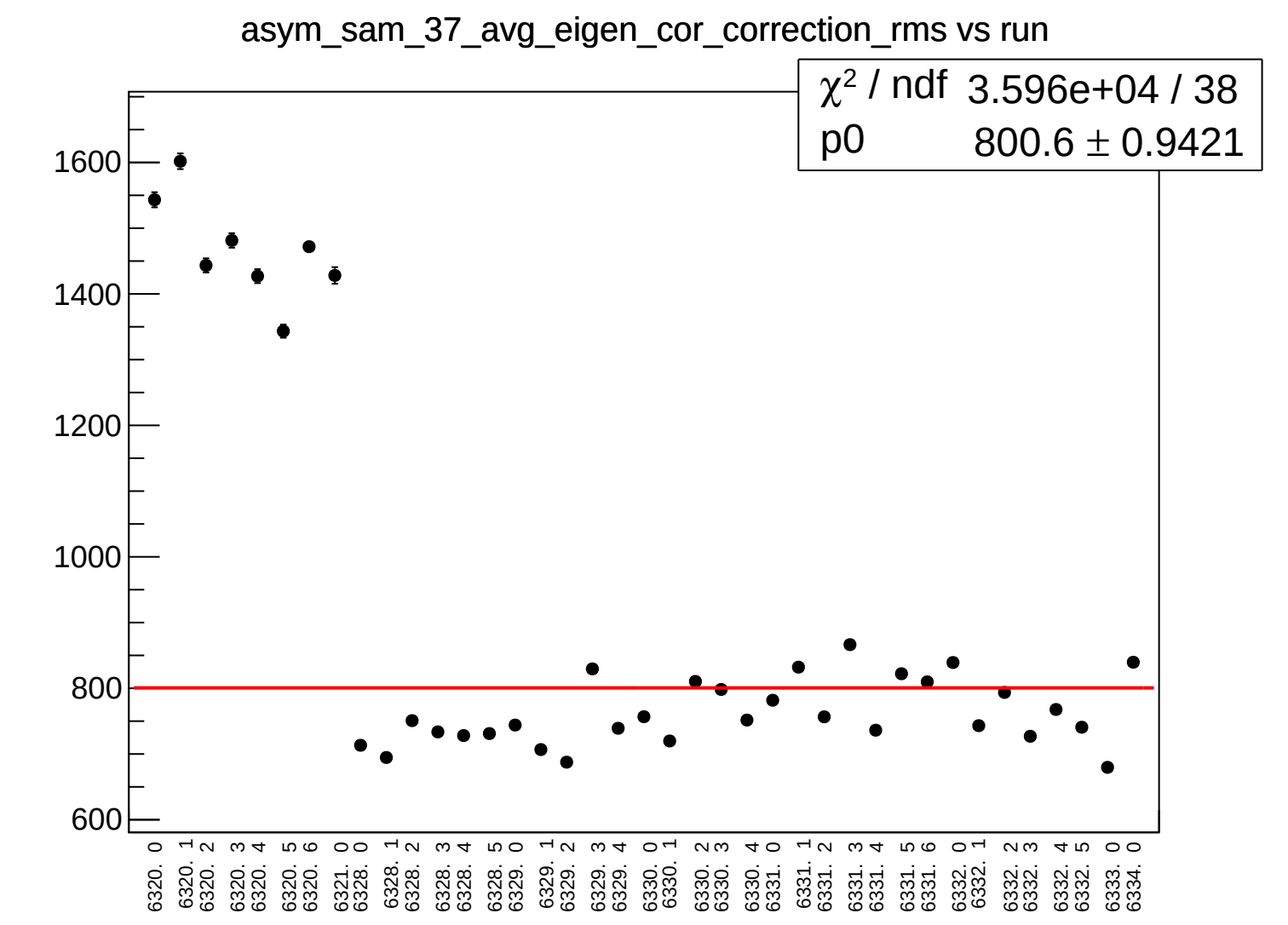

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.09 / 38
p0 −128.8 ± 129.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −29.92
Std Dev 0
2
1
0
−1
−2

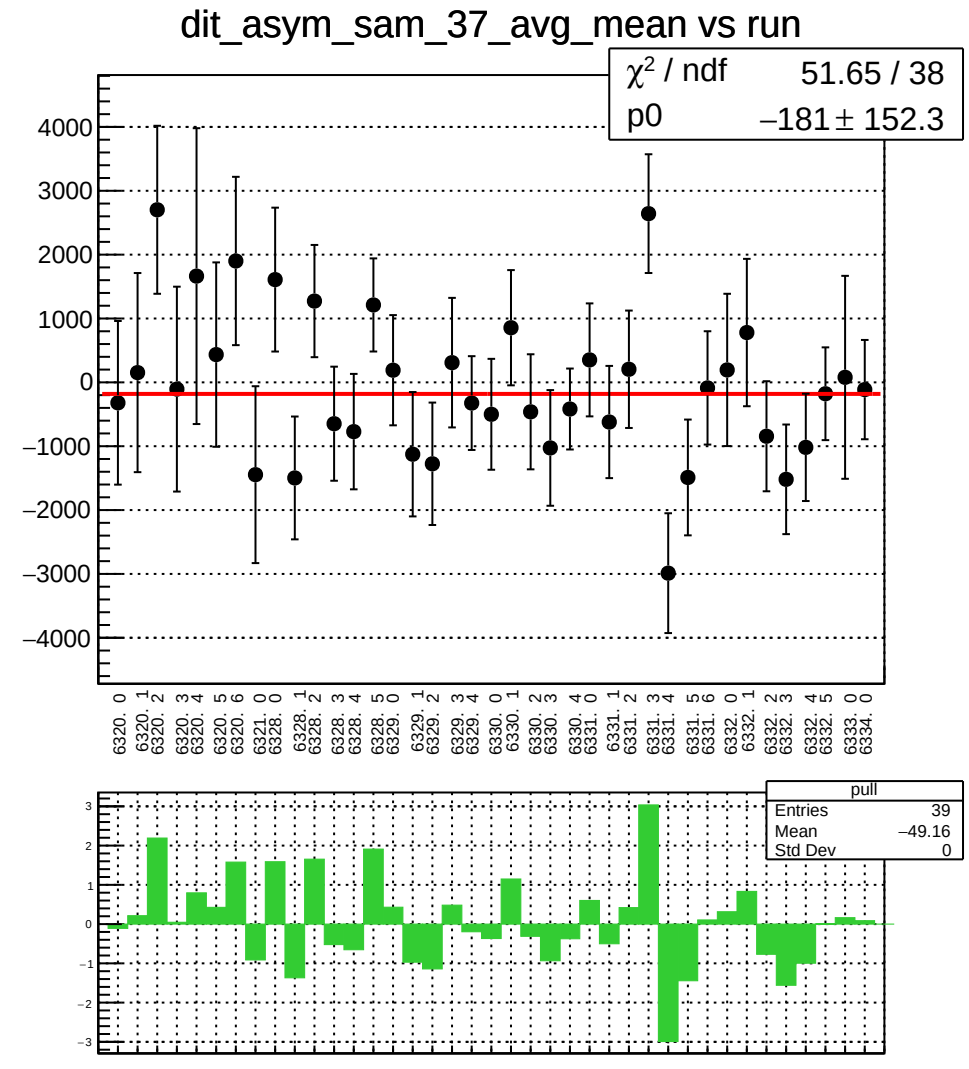

pull1D
Entries 39
Mean 0.04459
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

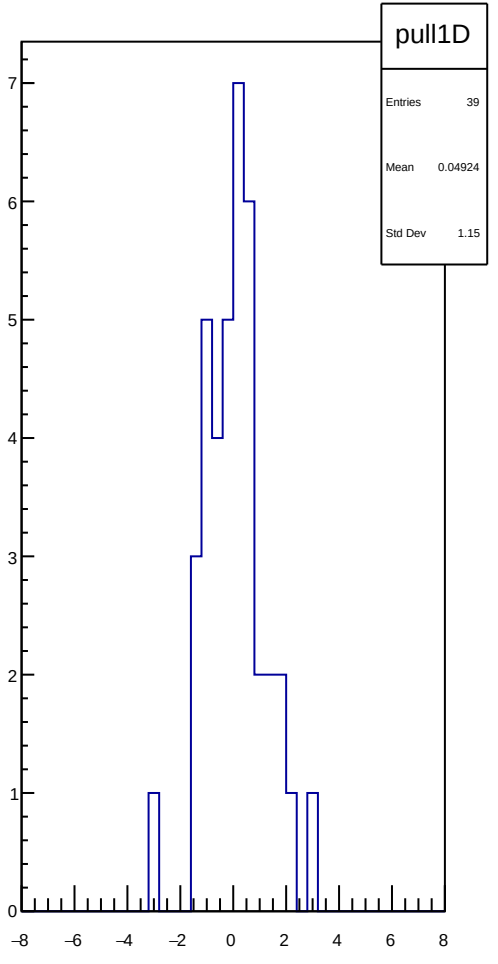

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.776e+04 / 38
p0 78.04 ± 0.09132
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

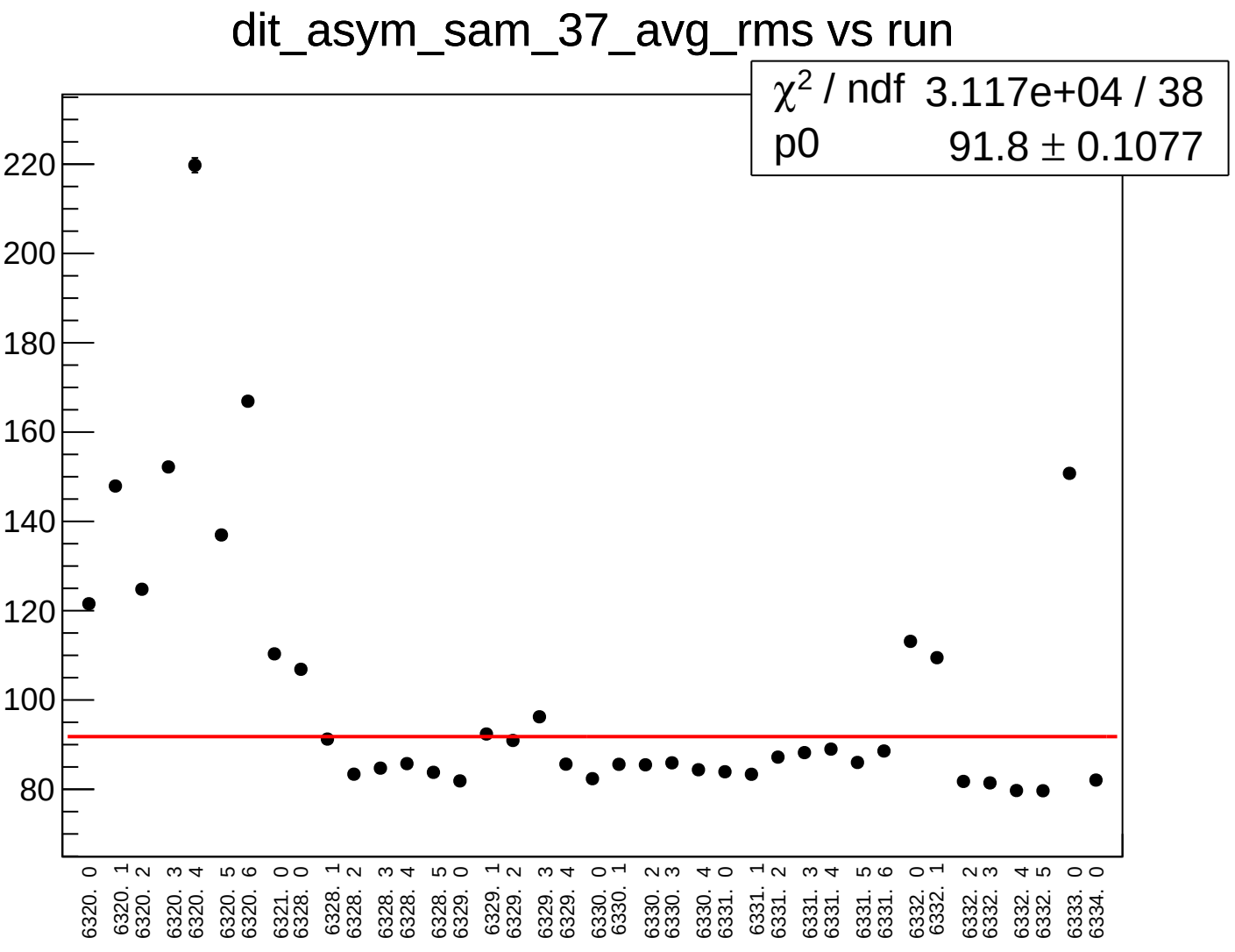

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.46 / 38
p0 −1374 ± 1332
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

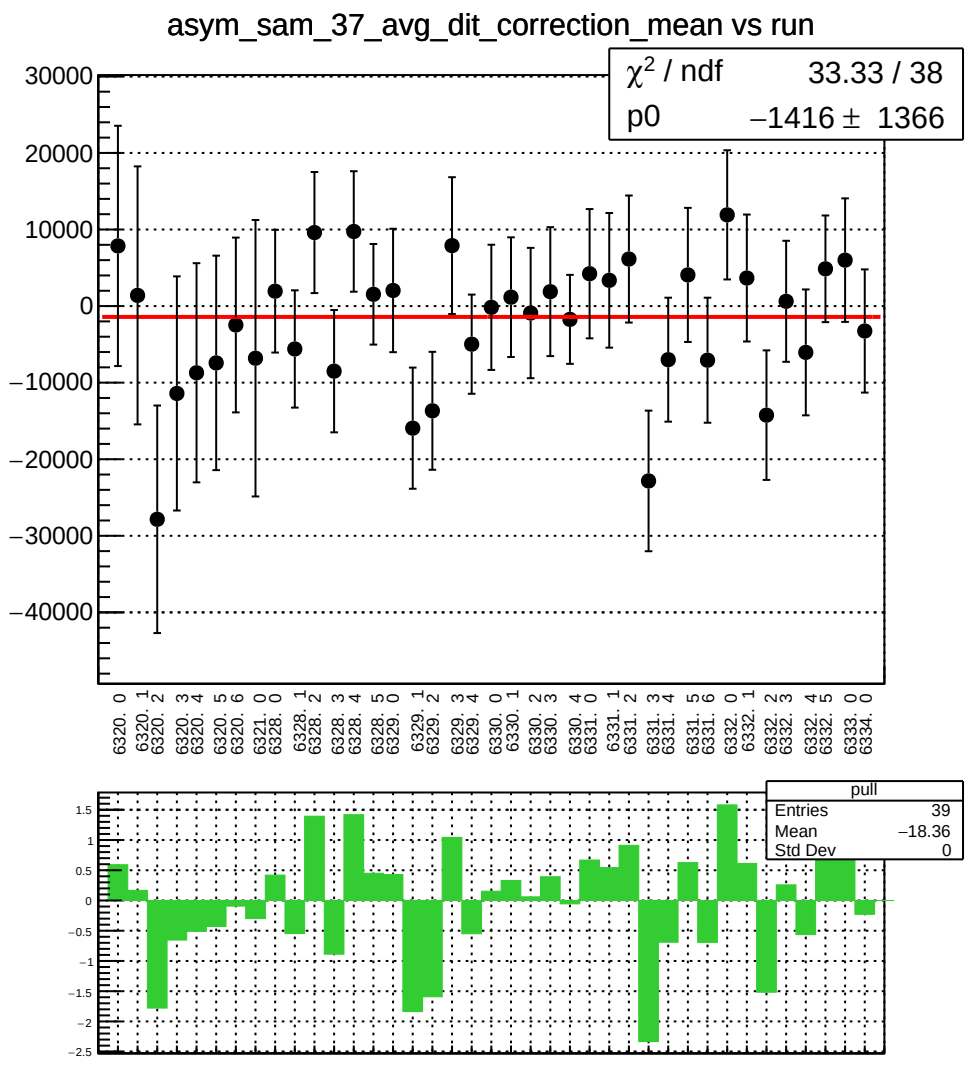

pull1D
Entries 39
Mean −0.03604
Std Dev 0.9392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

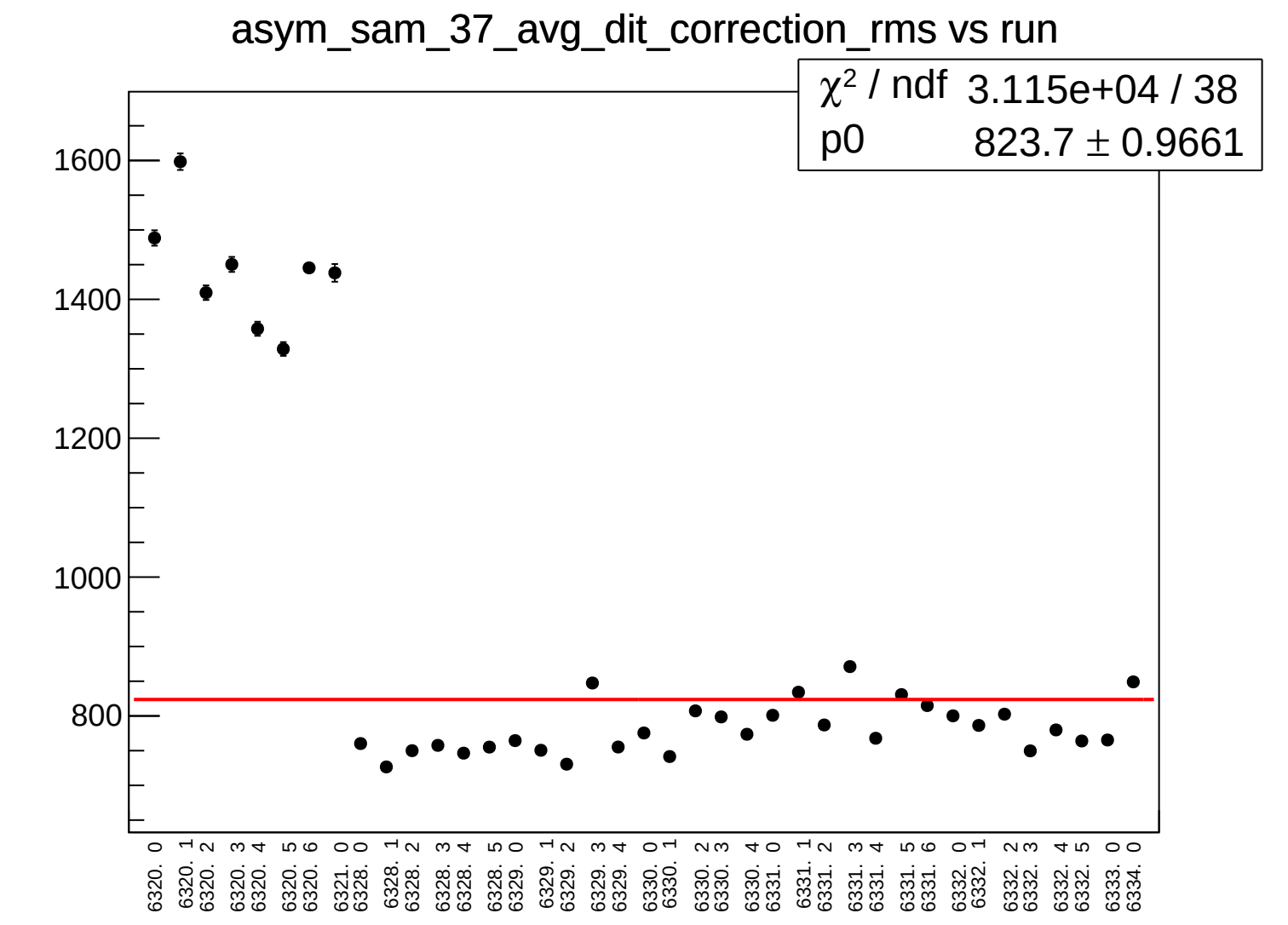

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.596e+04 / 38
p0 800.6 ± 0.9421
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

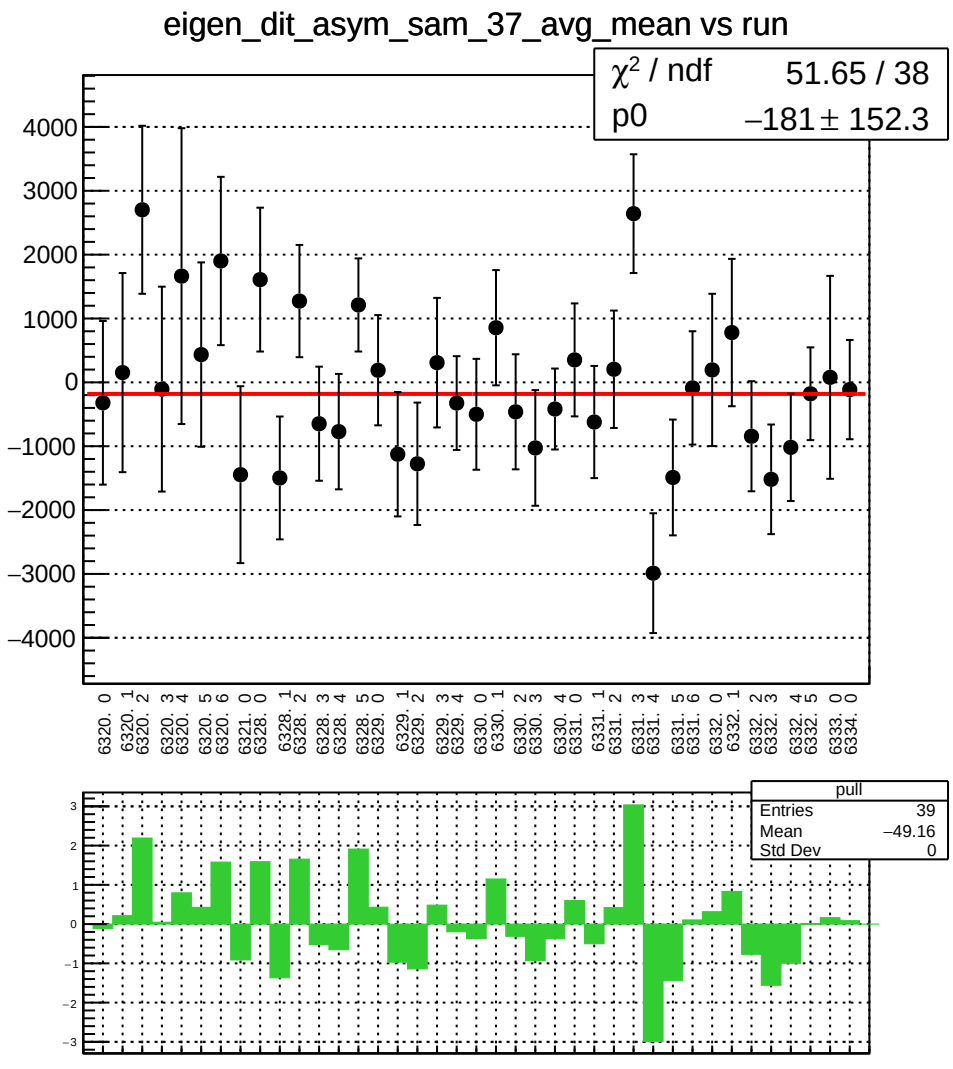

dit_asym_sam_37_avg_mean vs run
χ² / ndf 51.65 / 38
p0 −181 ± 152.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.16
Std Dev 0
3
2
1
0
−1
−2
−3

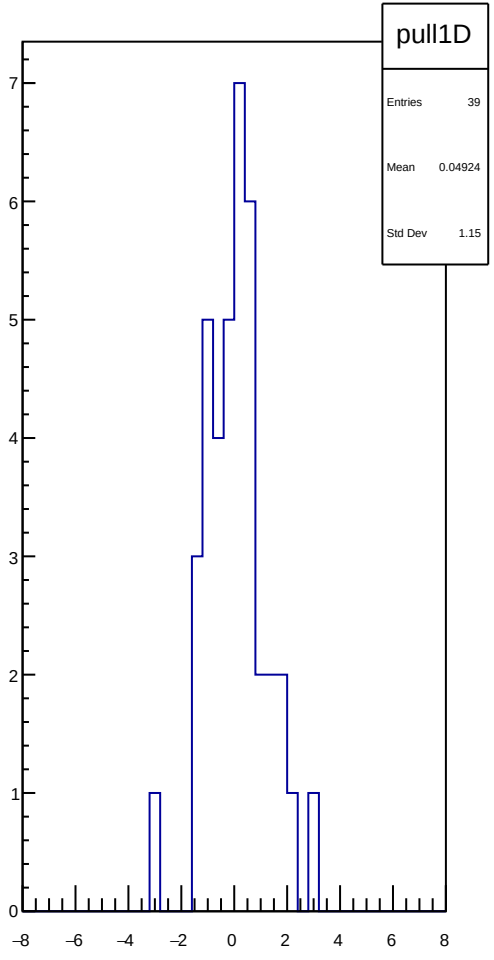

pull1D
Entries 39
Mean 0.04924
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

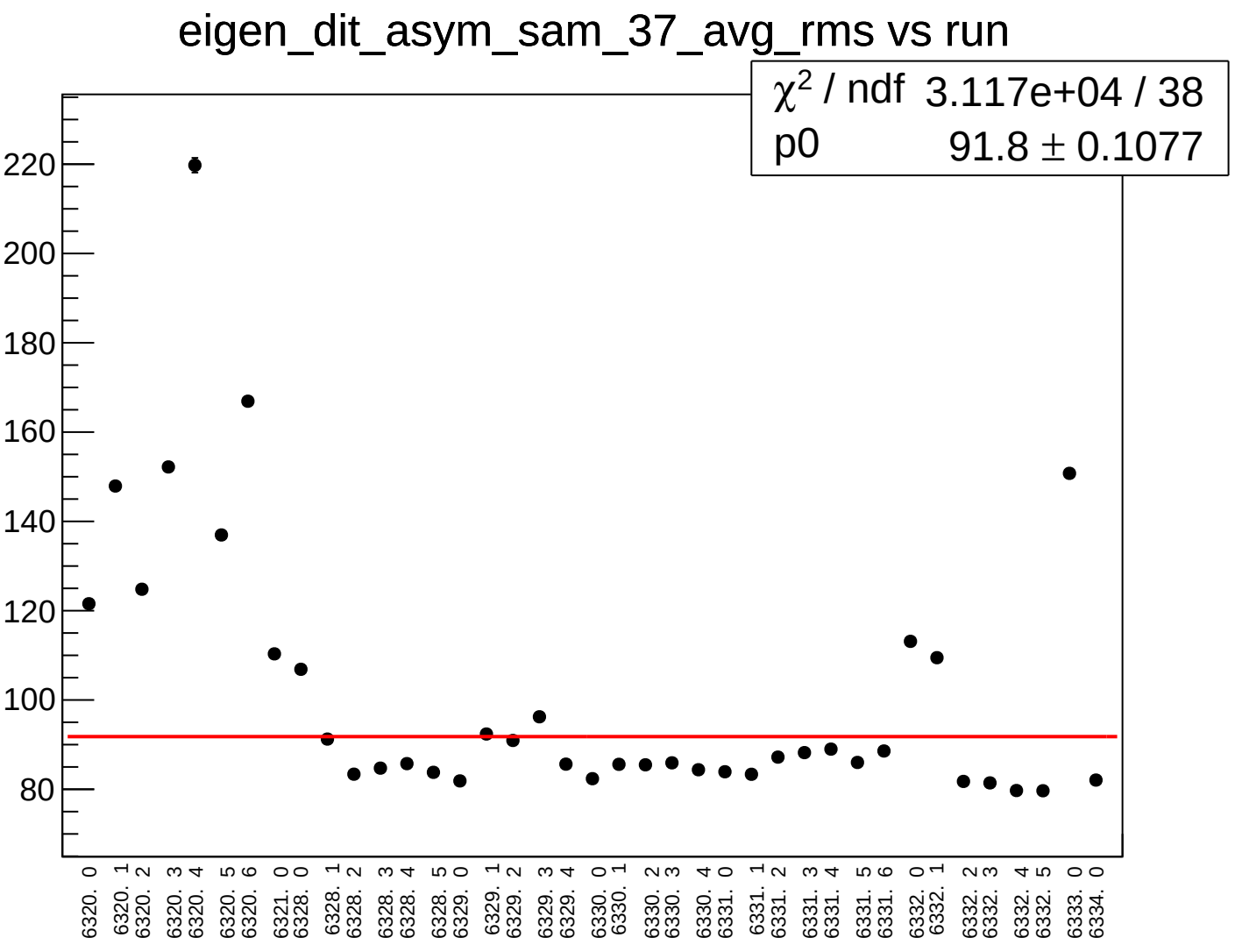

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.117e+04 / 38
p0 91.8 ± 0.1077
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

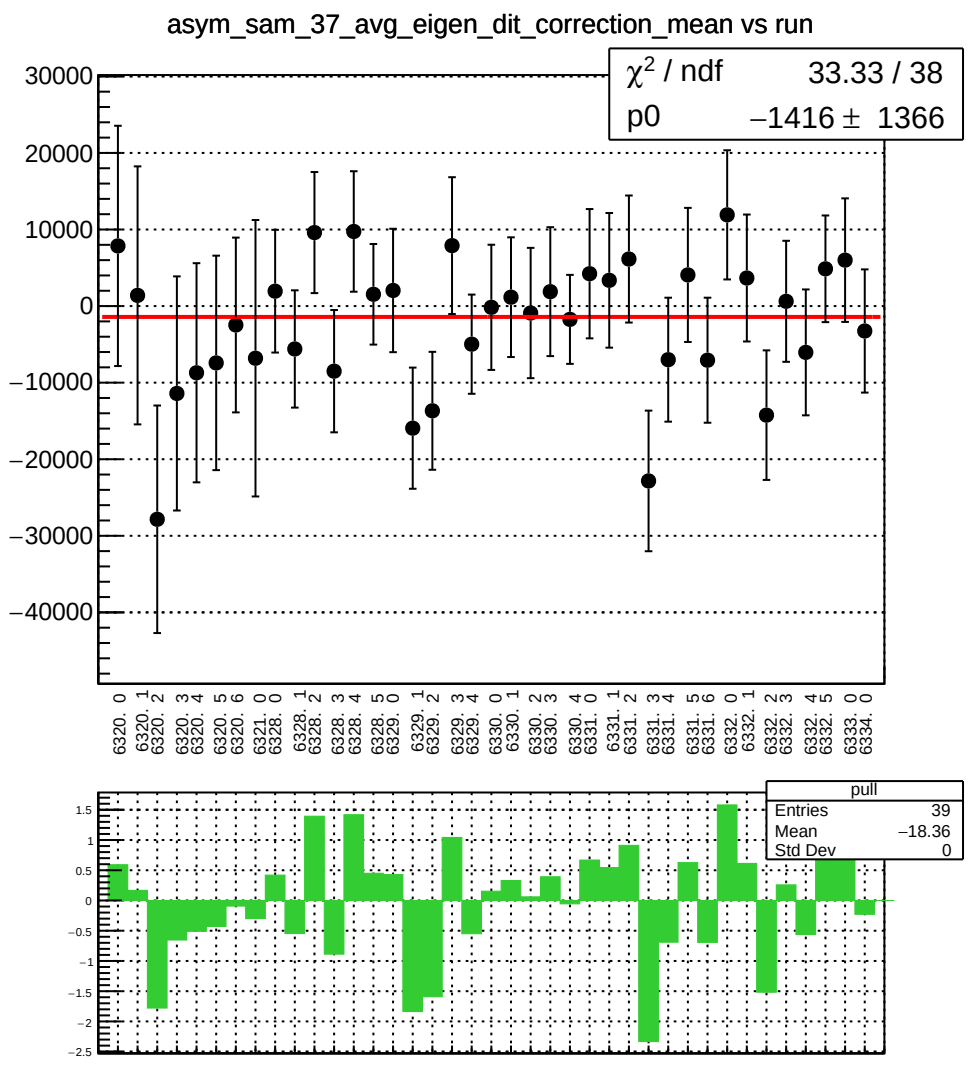

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 33.33 / 38
p0 −1416 ± 1366
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03548
Std Dev 0.9238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

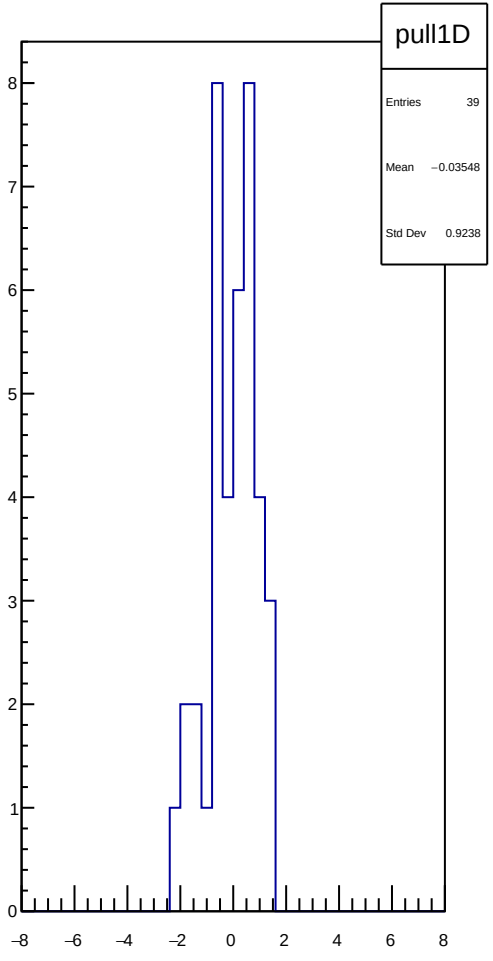

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3.115e+04 / 38
p0 823.7 ± 0.9661
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

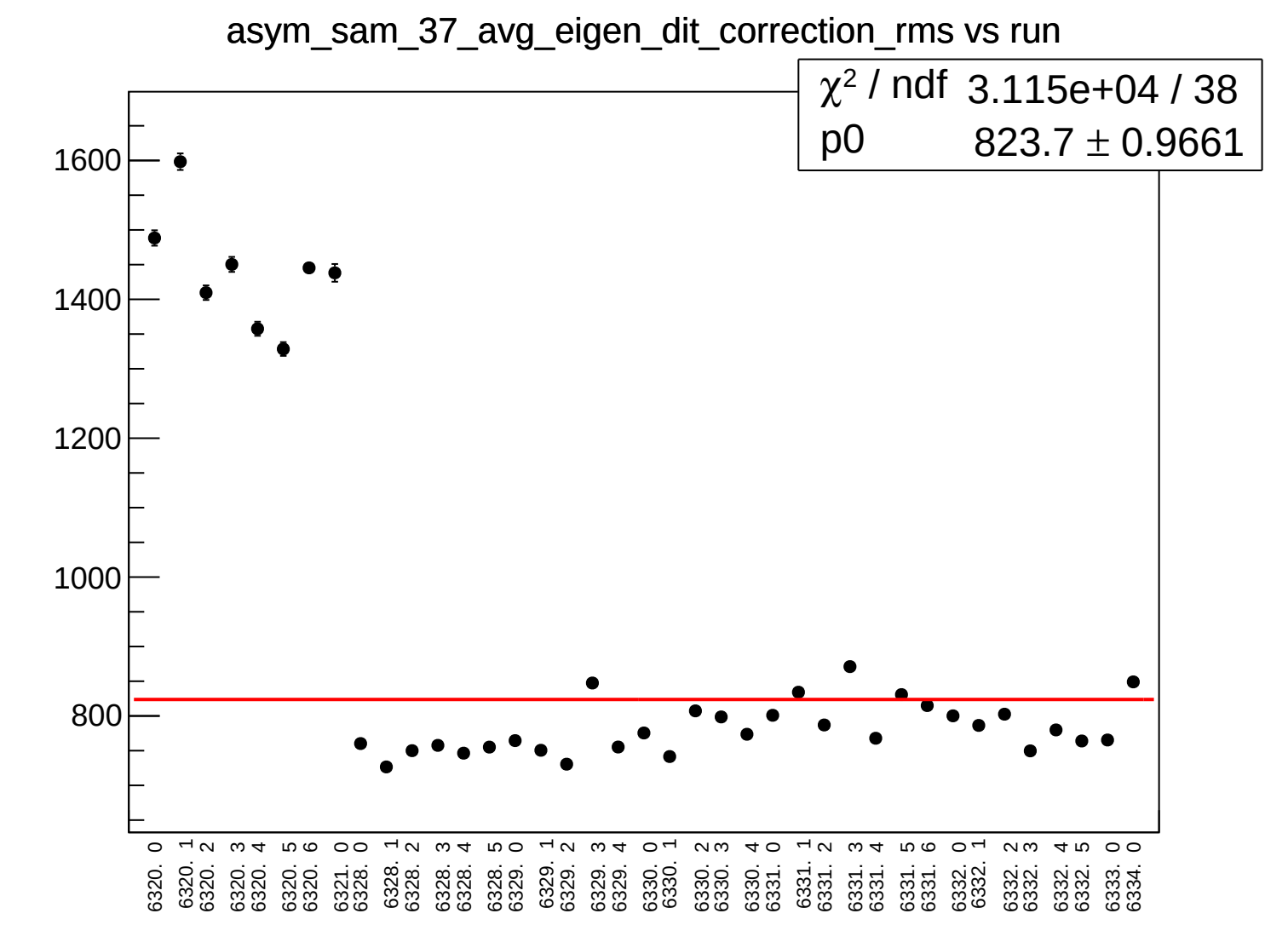

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 51.65 / 38
p0 −181 ± 152.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.16
Std Dev 0
3
2
1
0
−1
−2
−3

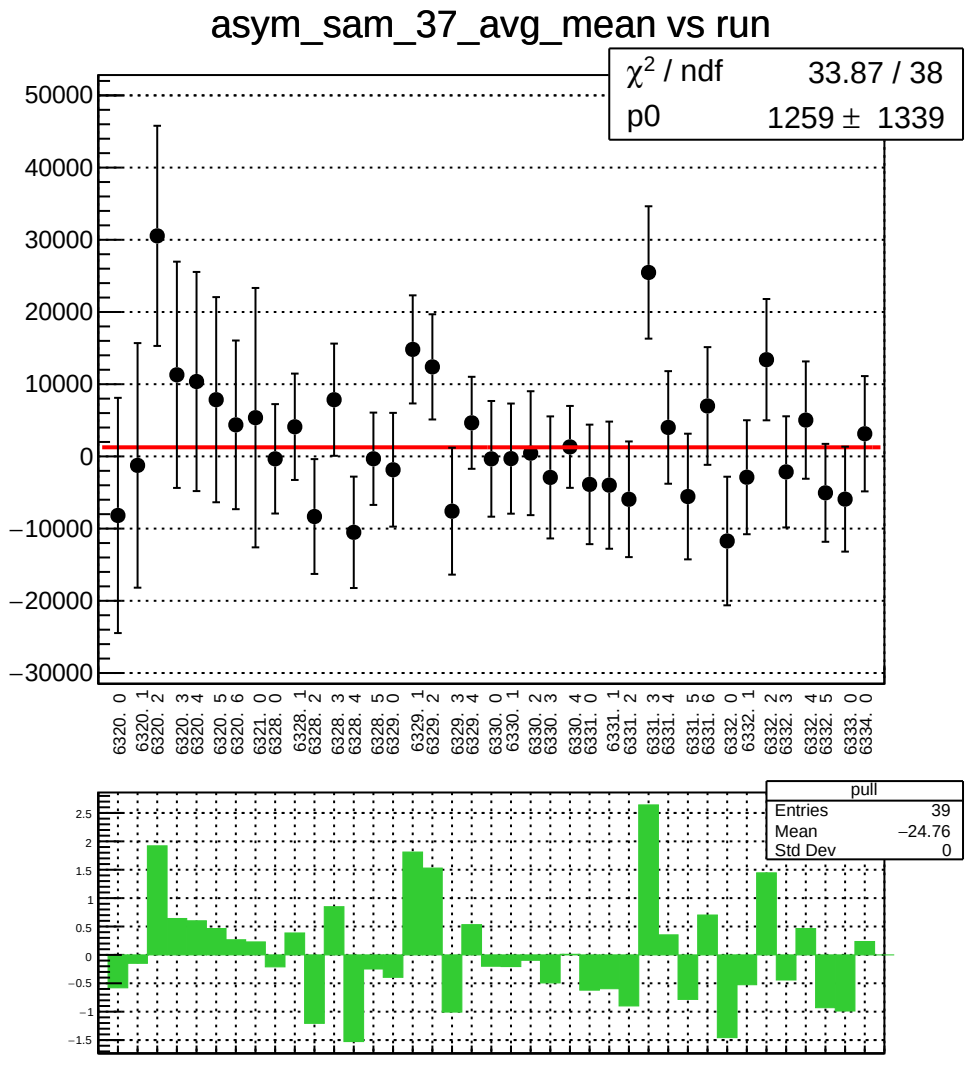

pull1D
Entries 39
Mean 0.04924
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

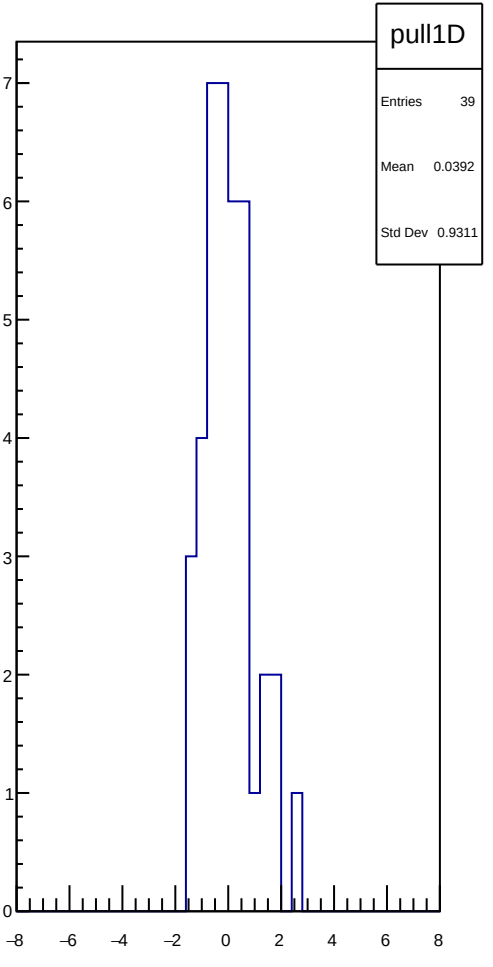

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.117e+04 / 38
p0 91.8 ± 0.1077
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

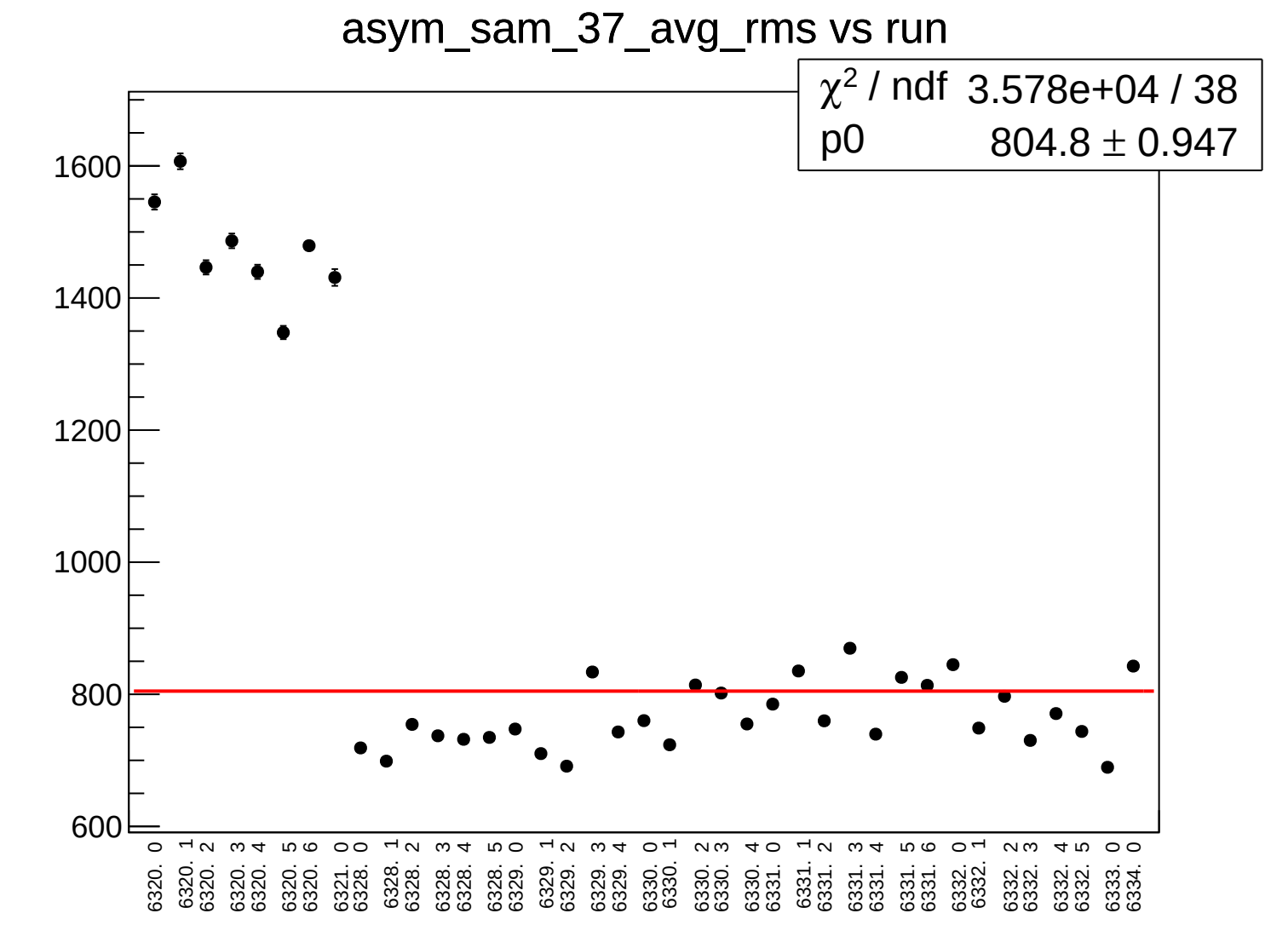

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 33.33 / 38
p0 −1416 ± 1366
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

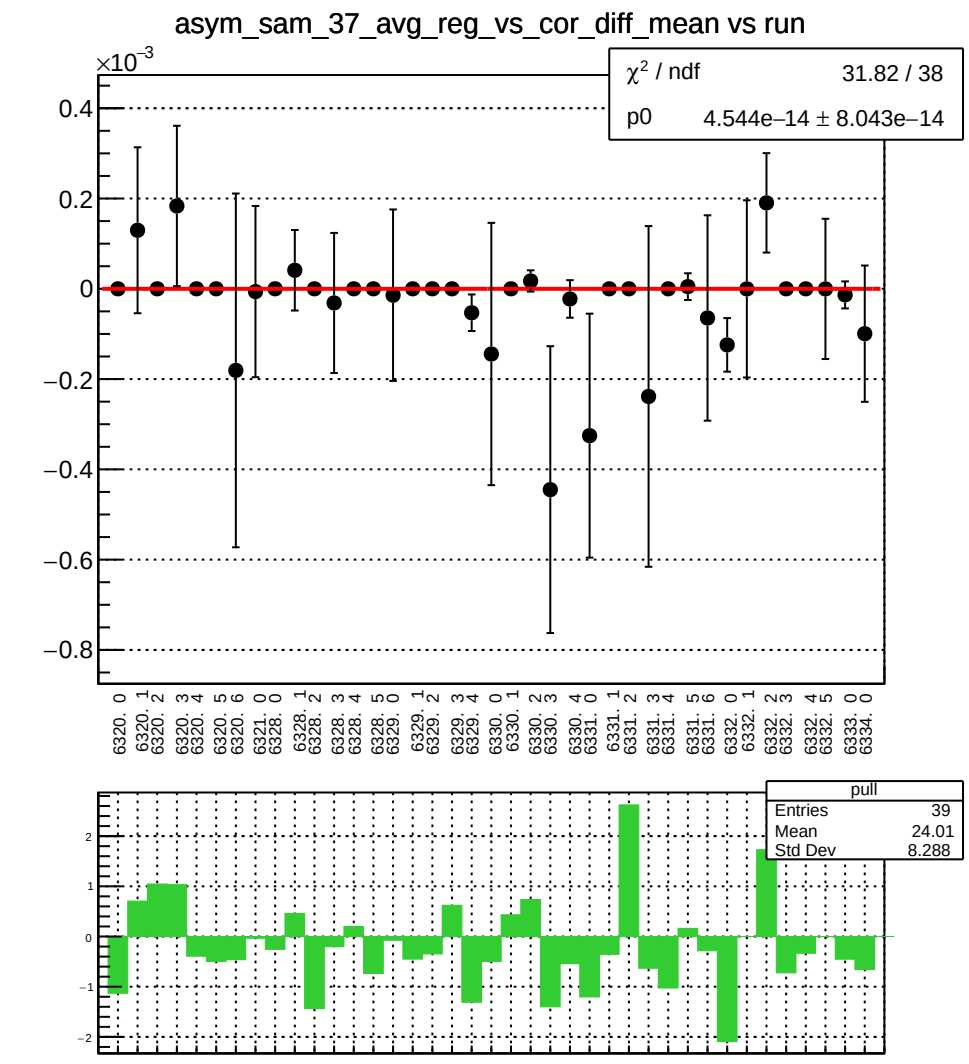

pull1D
Entries 39
Mean −0.03548
Std Dev 0.9238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

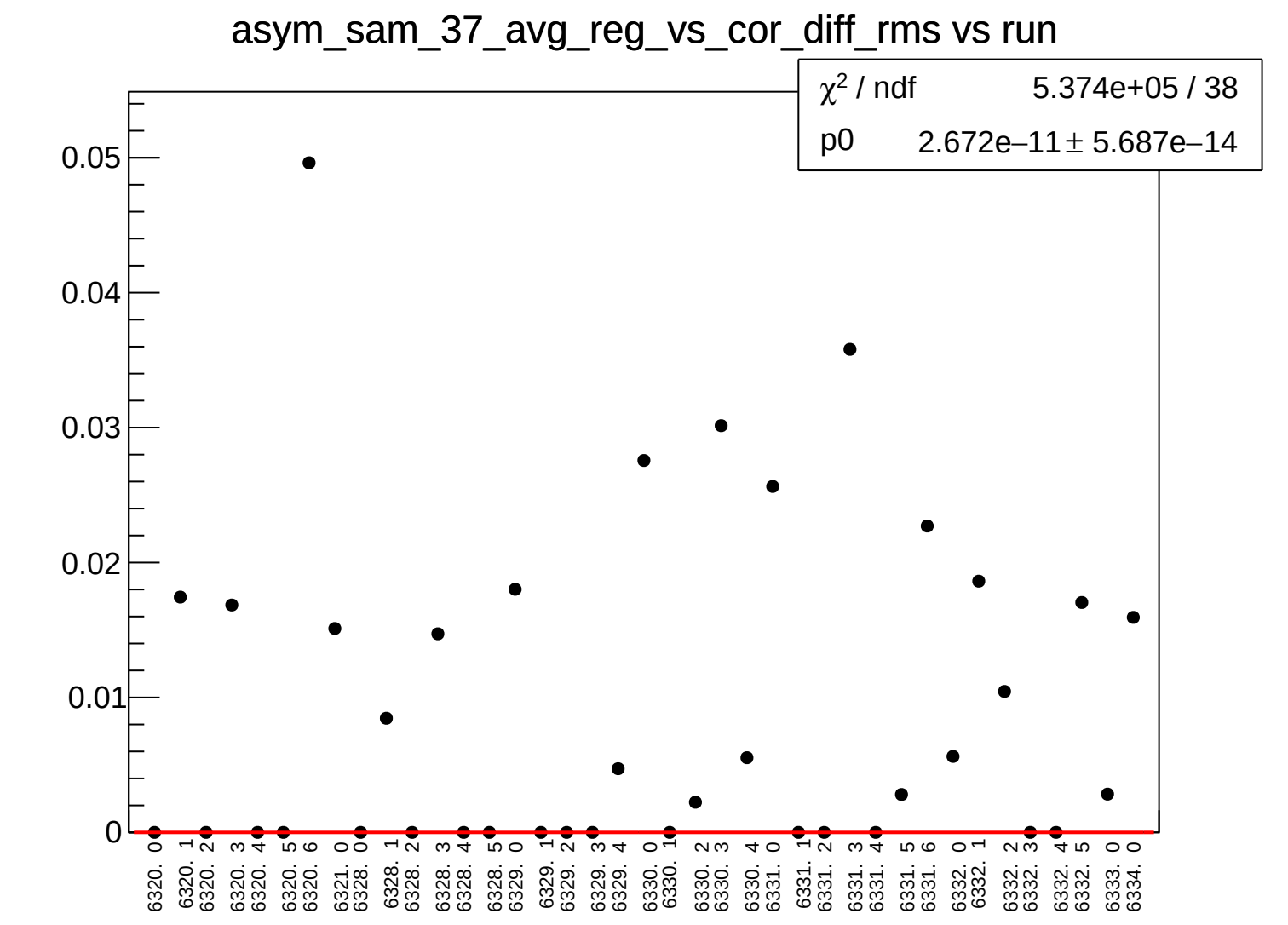

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.115e+04 / 38
p0 823.7 ± 0.9661
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

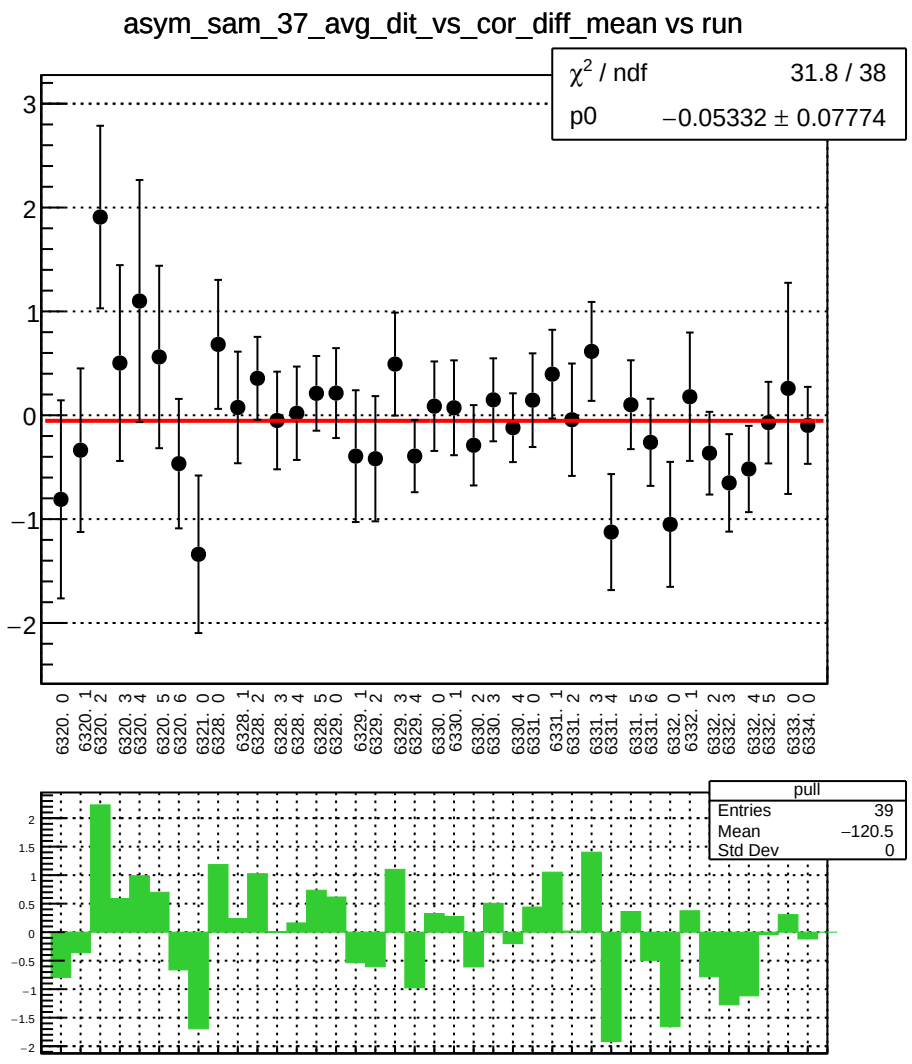

asym_sam_37_avg_mean vs run
χ² / ndf 33.87 / 38
p0 1259 ± 1339
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −24.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

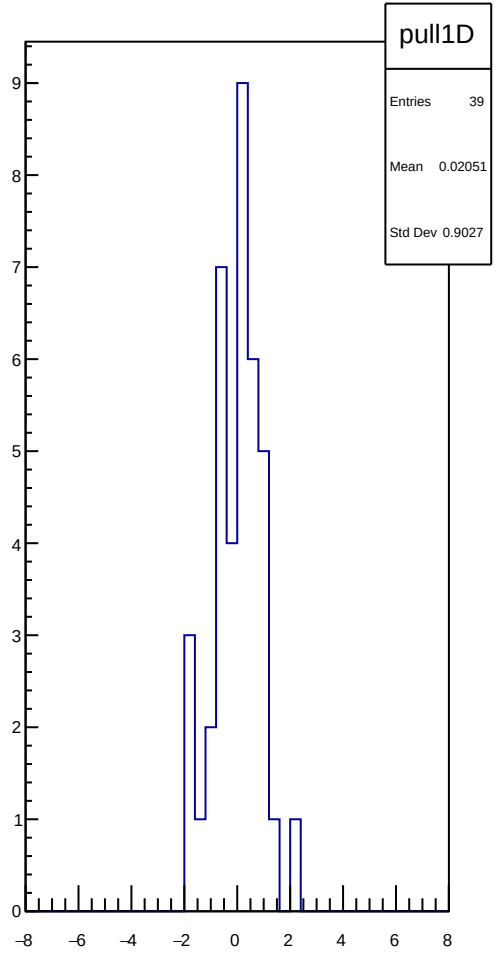

pull1D
Entries 39
Mean 0.0392
Std Dev 0.9311
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

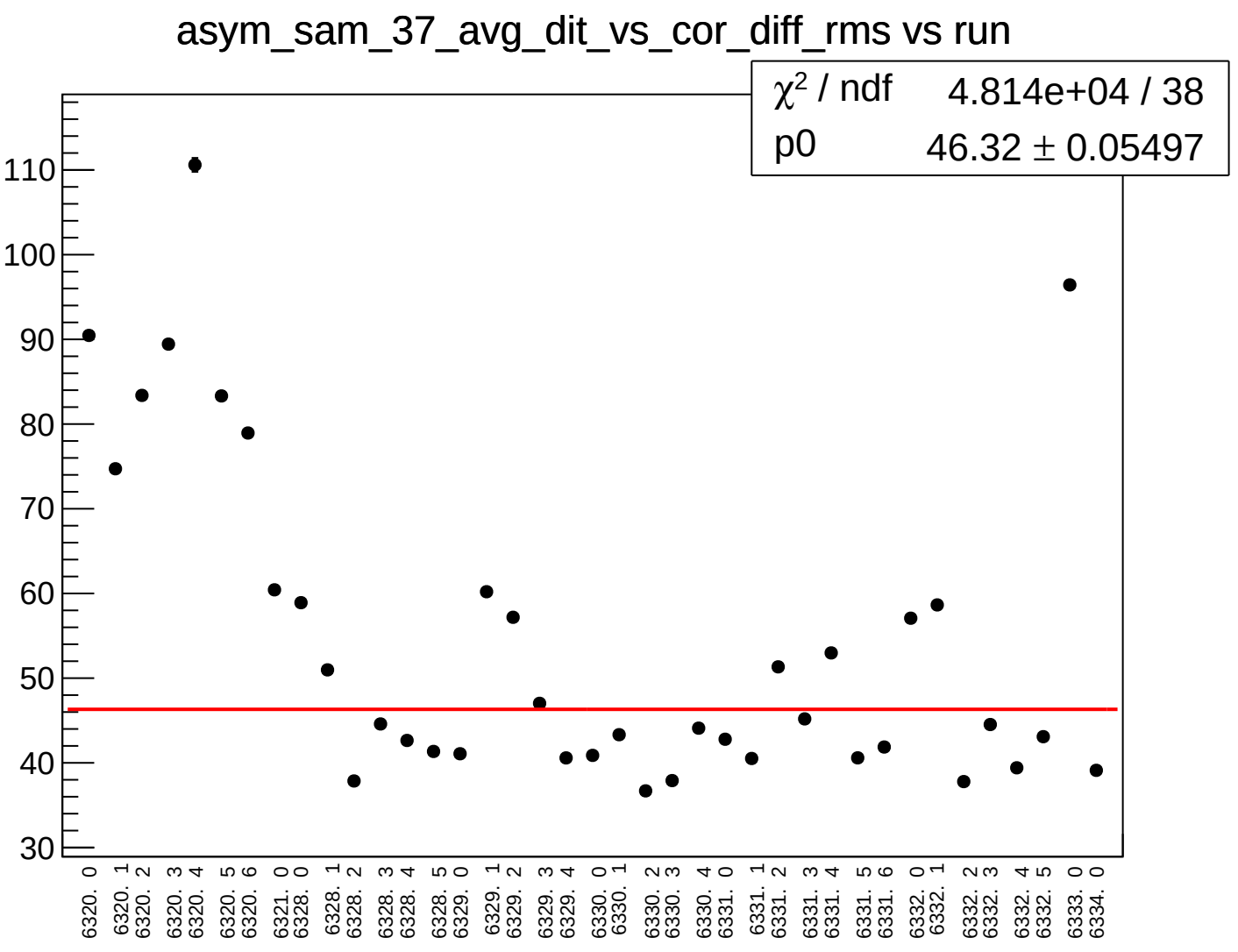

asym_sam_37_avg_rms vs run
χ² / ndf 3.578e+04 / 38
p0 804.8 ± 0.947
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

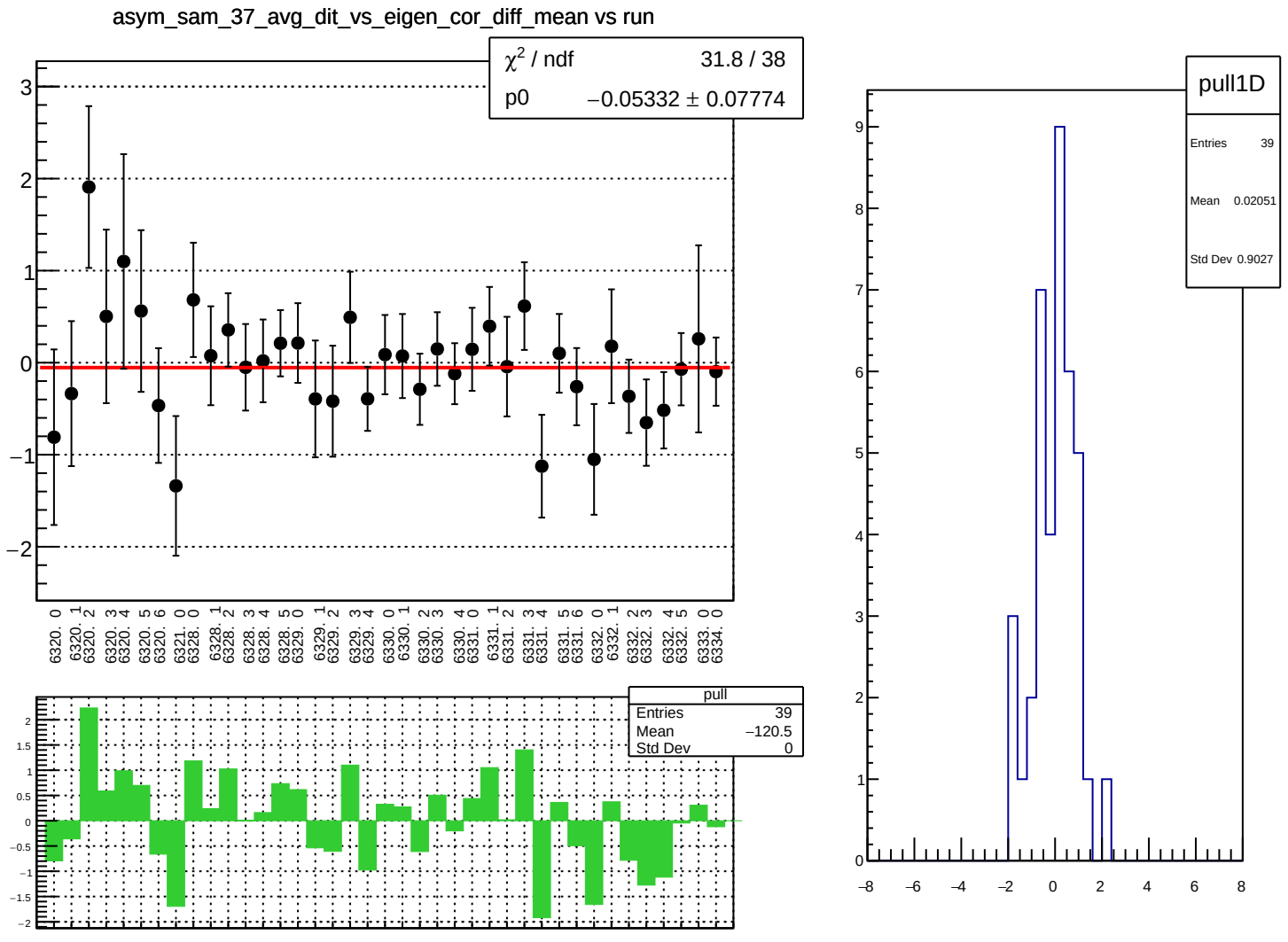

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 31.82 / 38
p0 4.544e−14 ± 8.043e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 24.01
Std Dev 8.288
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1994
Std Dev 0.8809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

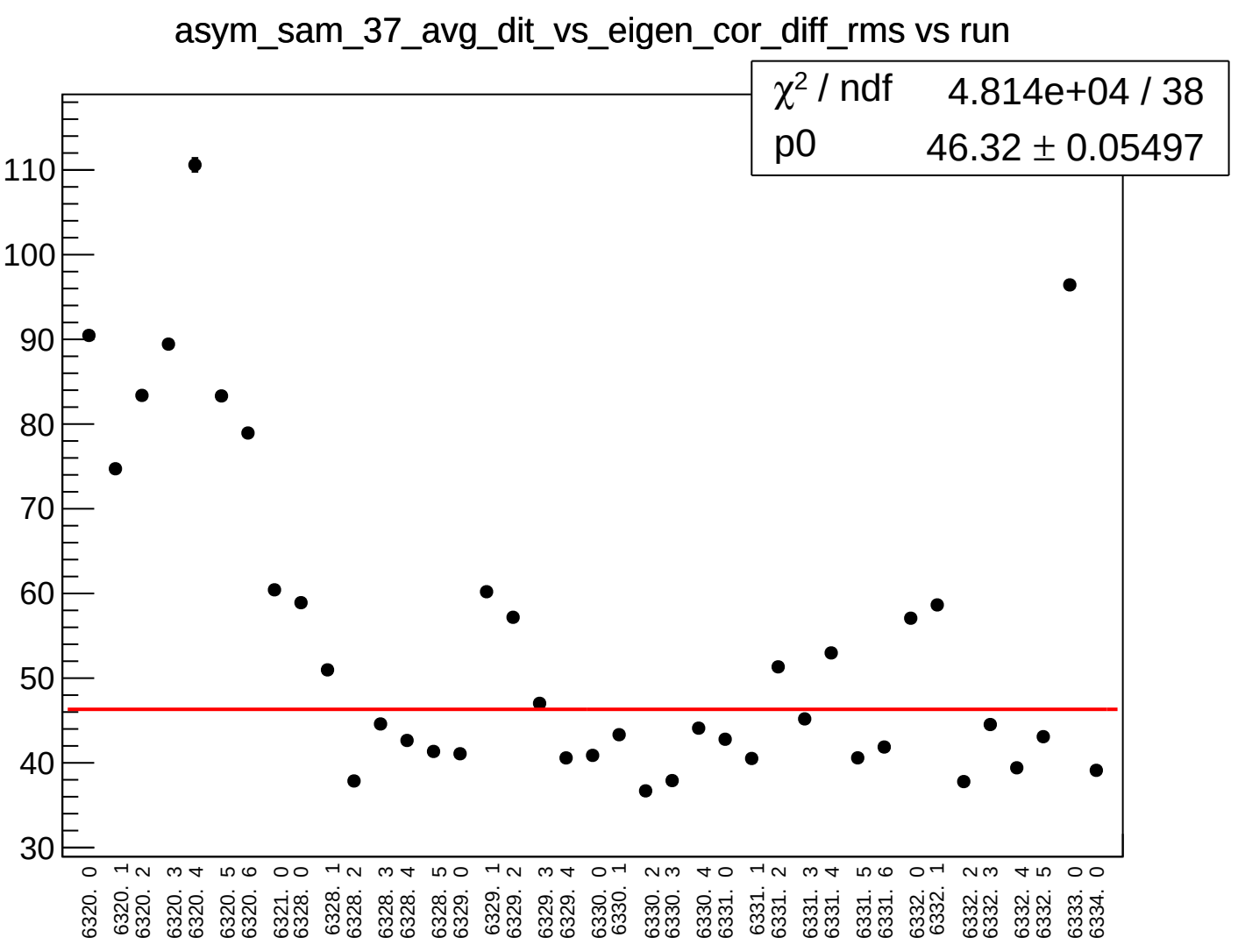

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.374e+05 / 38
p0 2.672e−11 ± 5.687e−14
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

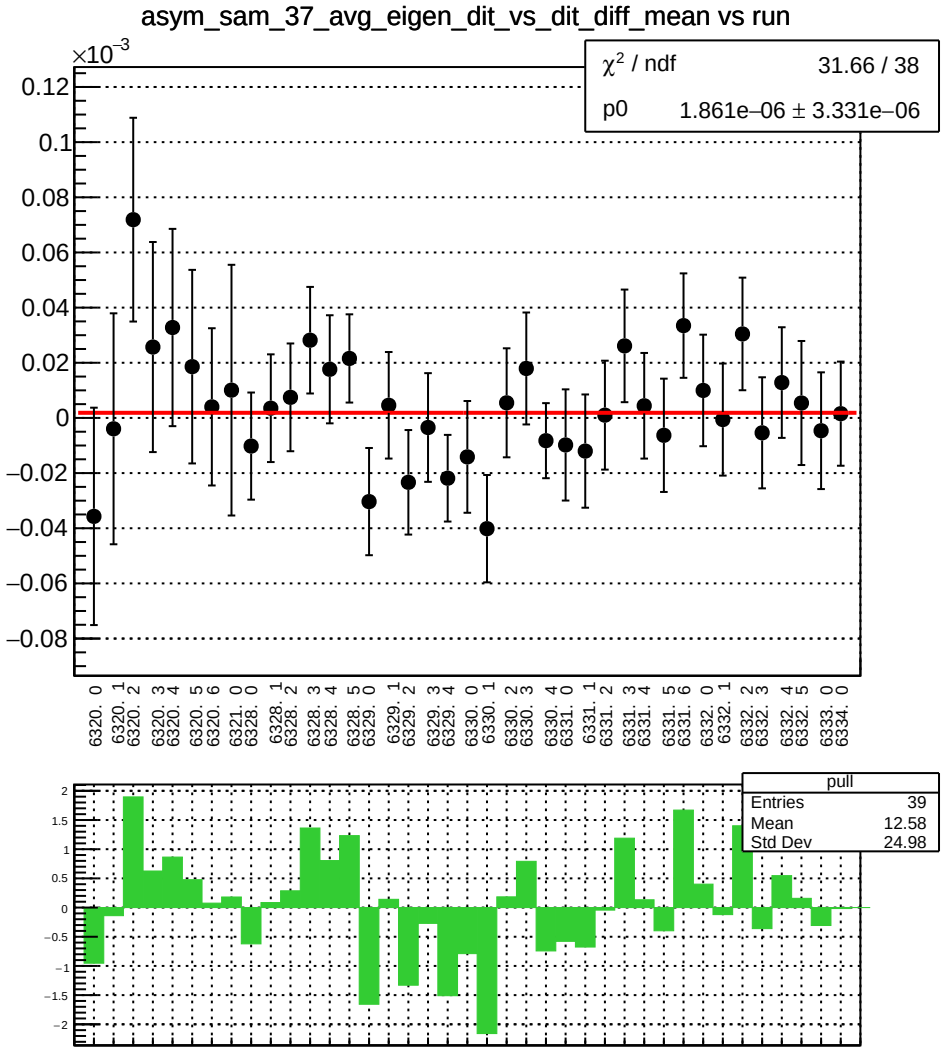

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.8 / 38
p0 −0.05332 ± 0.07774
pull
Entries 39
Mean −120.5
Std Dev 0

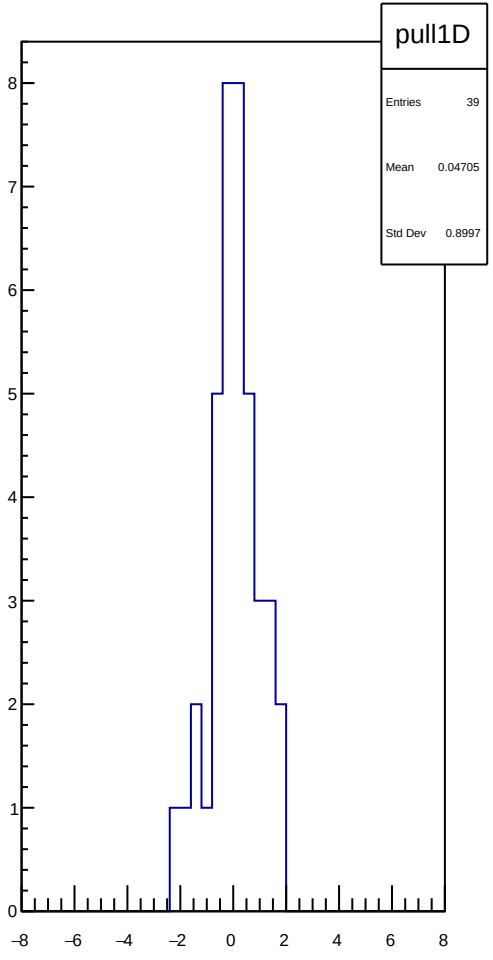

pull1D
Entries 39
Mean 0.02051
Std Dev 0.9027

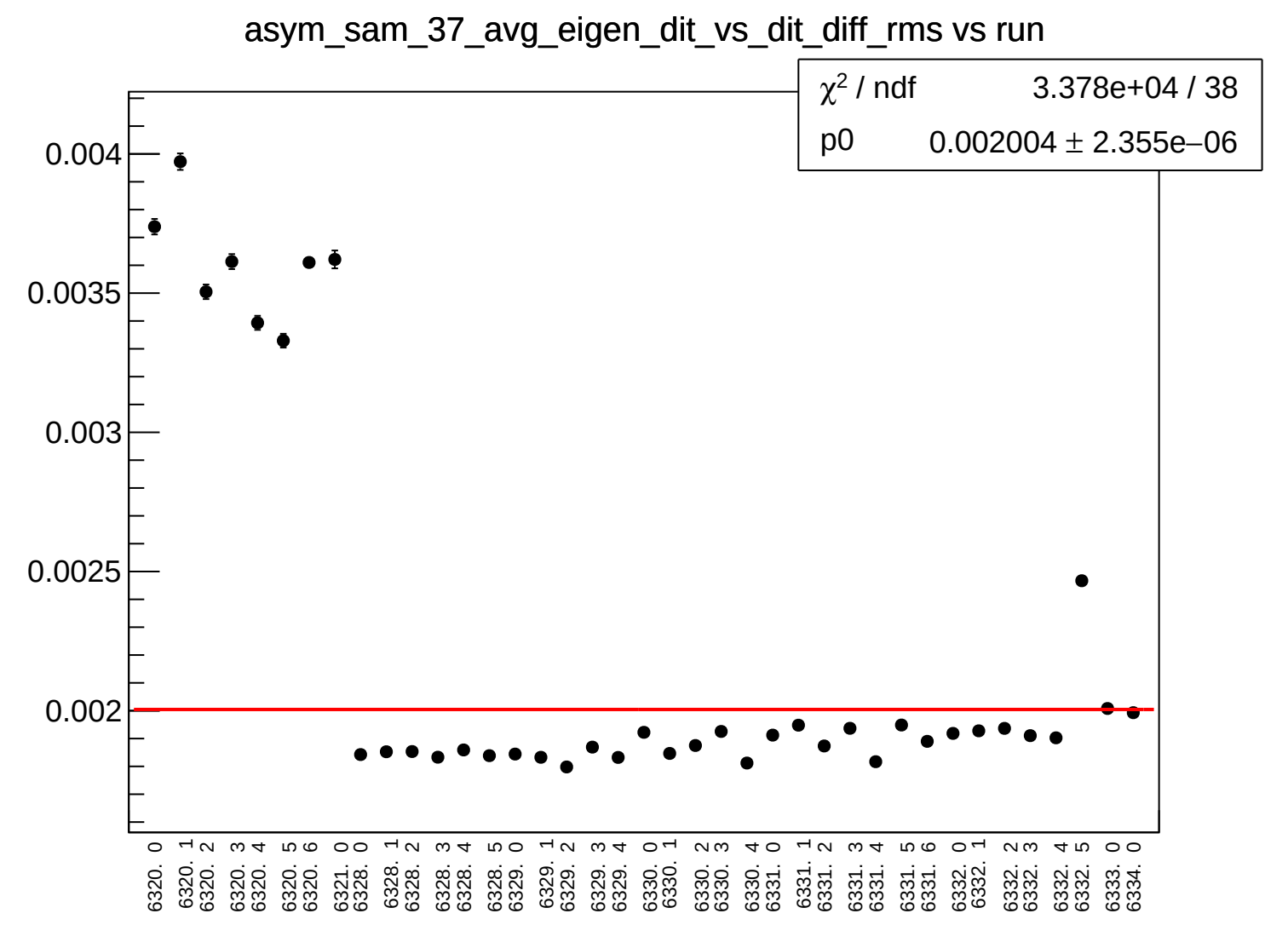

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 38
p0 46.32 ± 0.05497
110
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

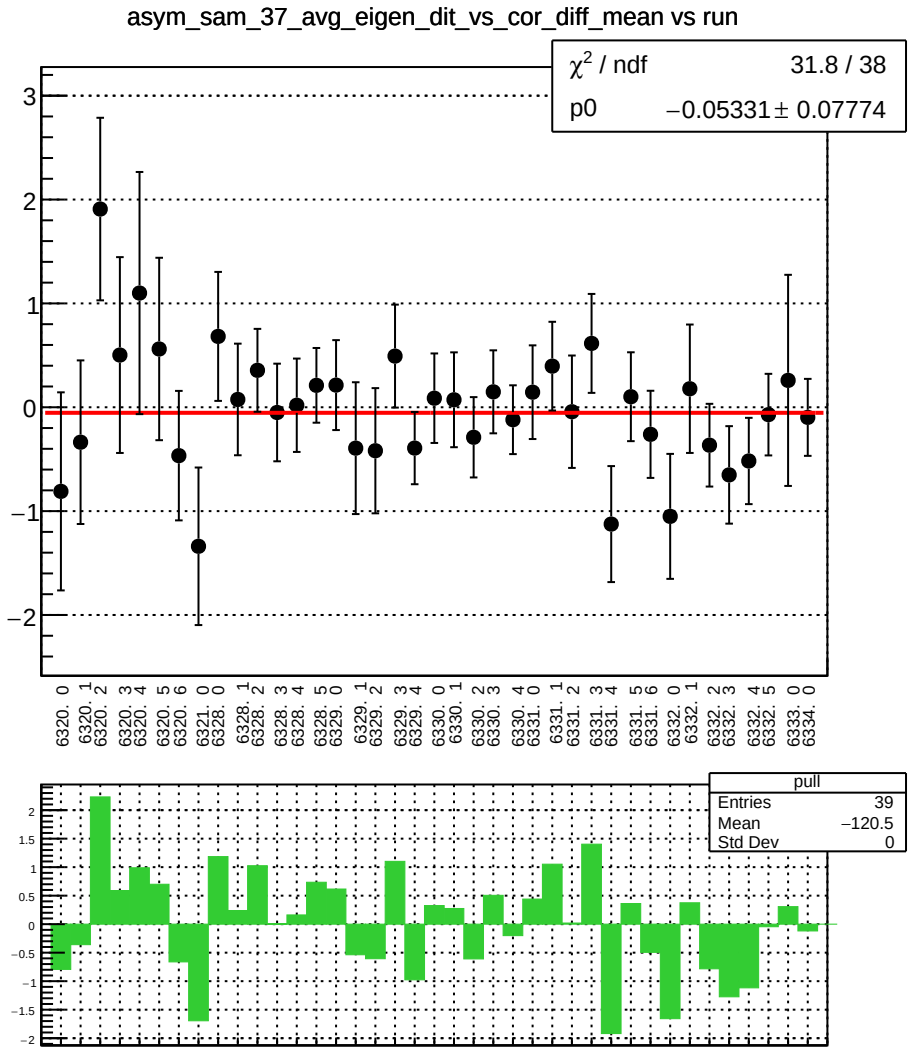

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.8 / 38
p0 −0.05332 ± 0.07774
pull
Entries 39
Mean −120.5
Std Dev 0
pull1D
Entries 39
Mean 0.02051
Std Dev 0.9027

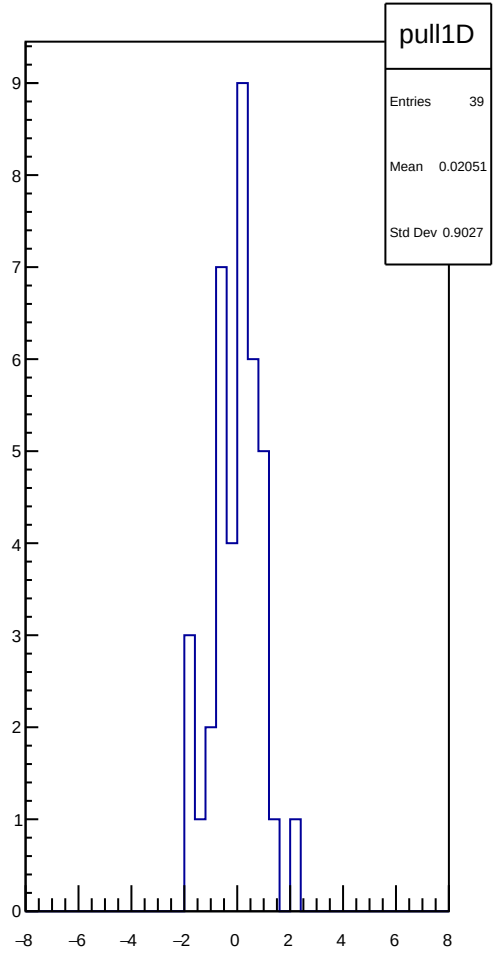

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 38
p0 46.32 ± 0.05497
110
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

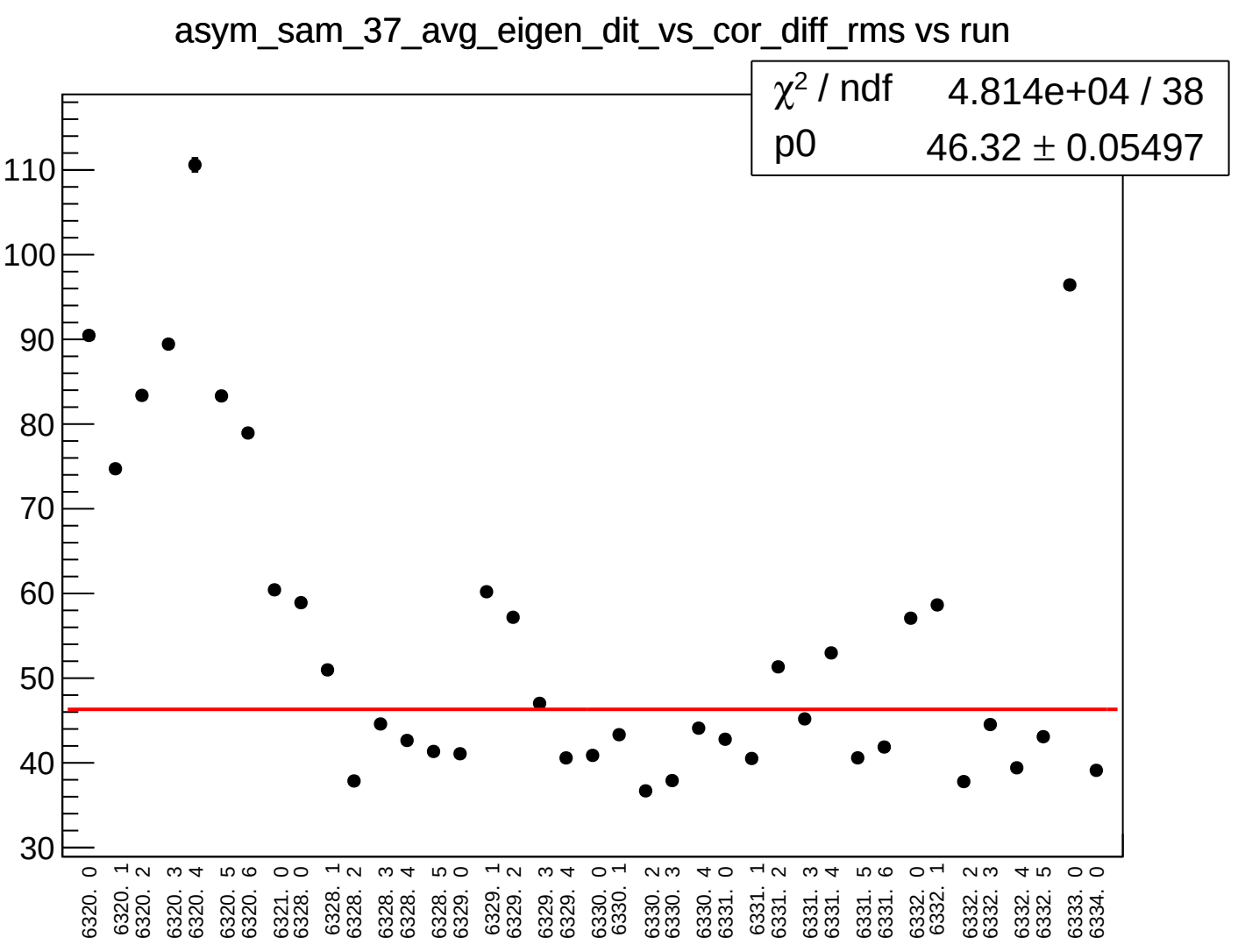

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.66 / 38
p0 1.861e−06 ± 3.331e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 12.58
Std Dev 24.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

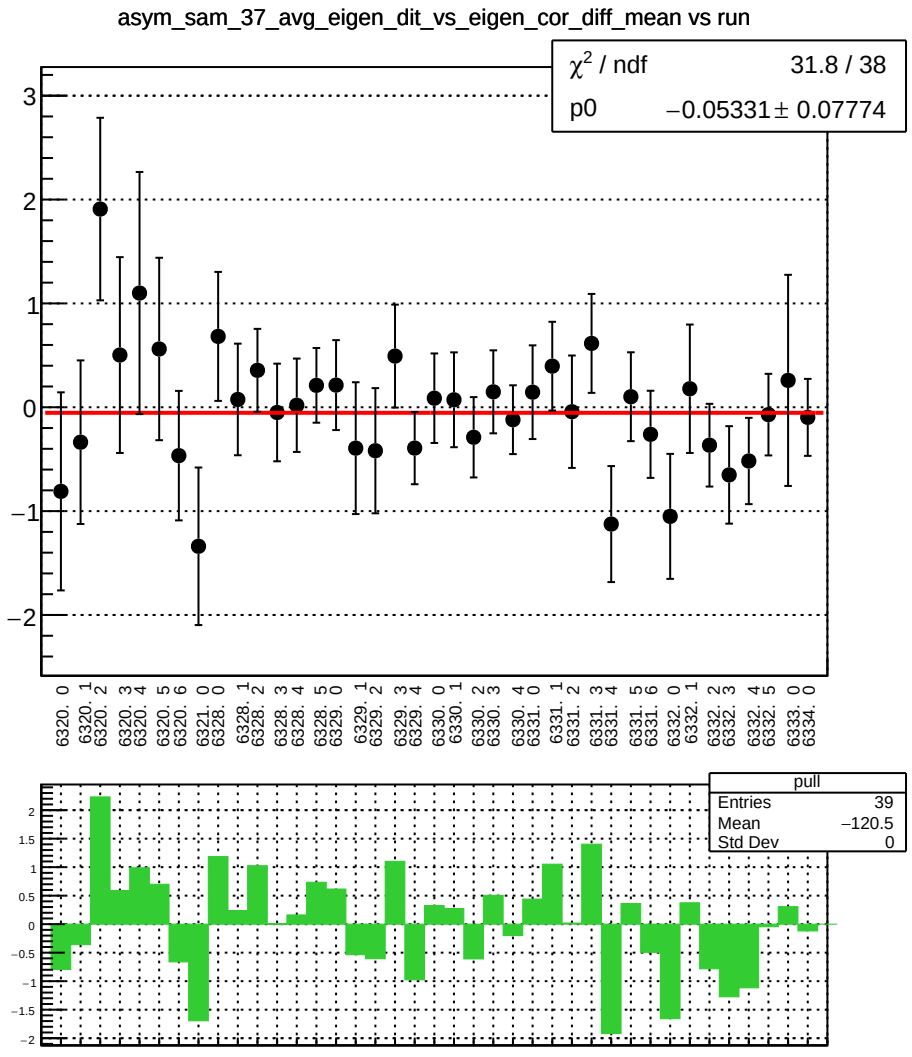

pull1D
Entries 39
Mean 0.04705
Std Dev 0.8997
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

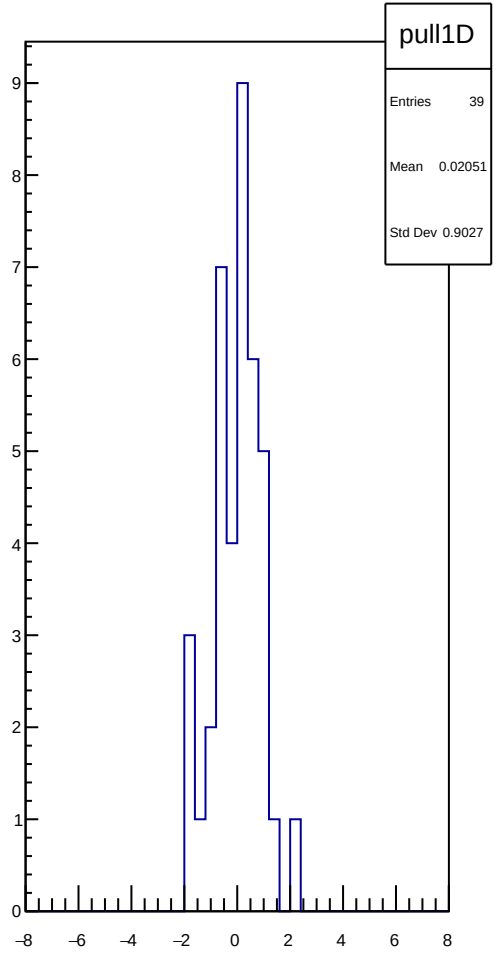

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.378e+04 / 38
p0 0.002004 ± 2.355e−06
0.004
0.0035
0.003
0.0025
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

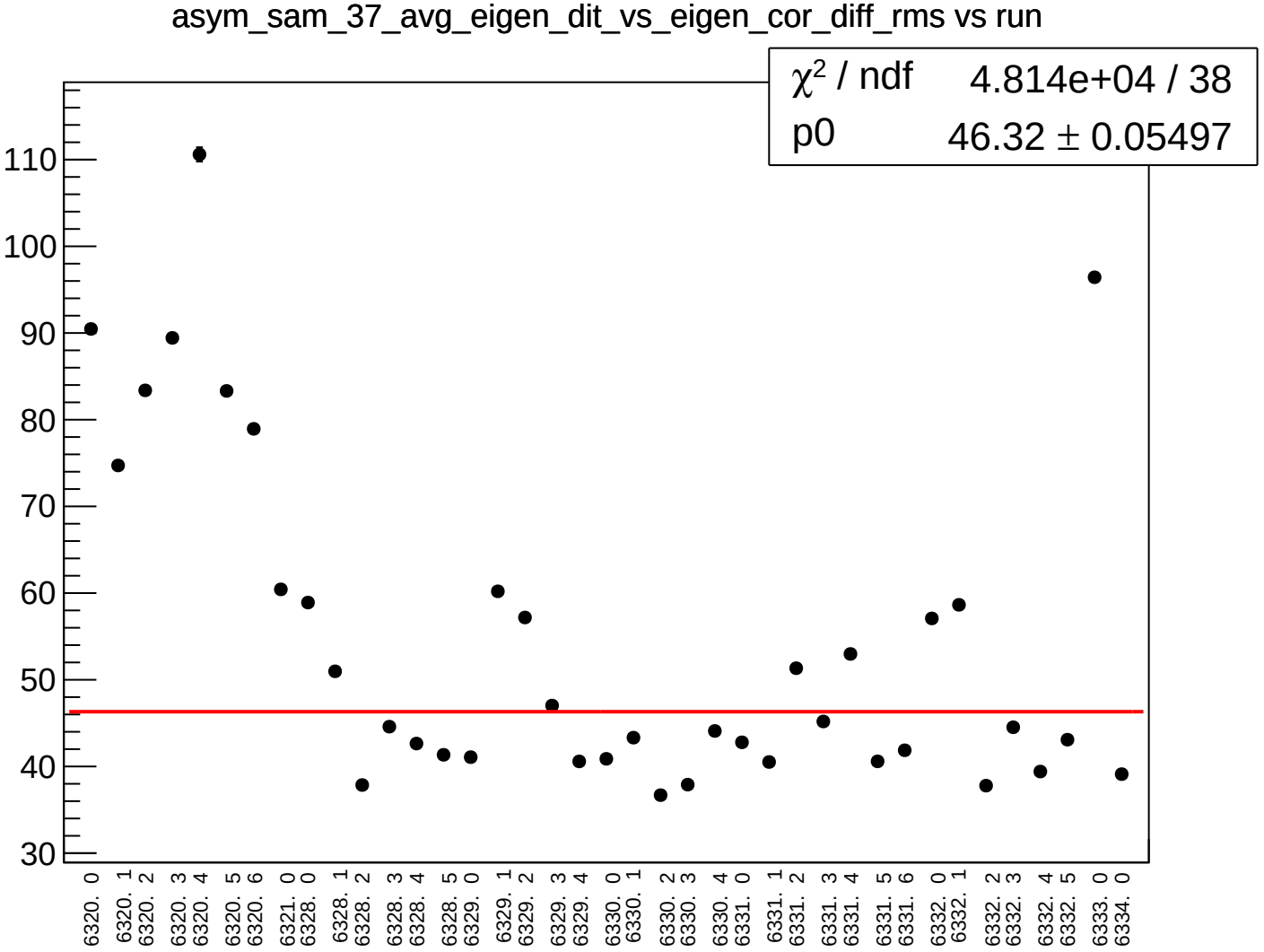

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.8 / 38
p0 −0.05331 ± 0.07774
pull
Entries 39
Mean −120.5
Std Dev 0

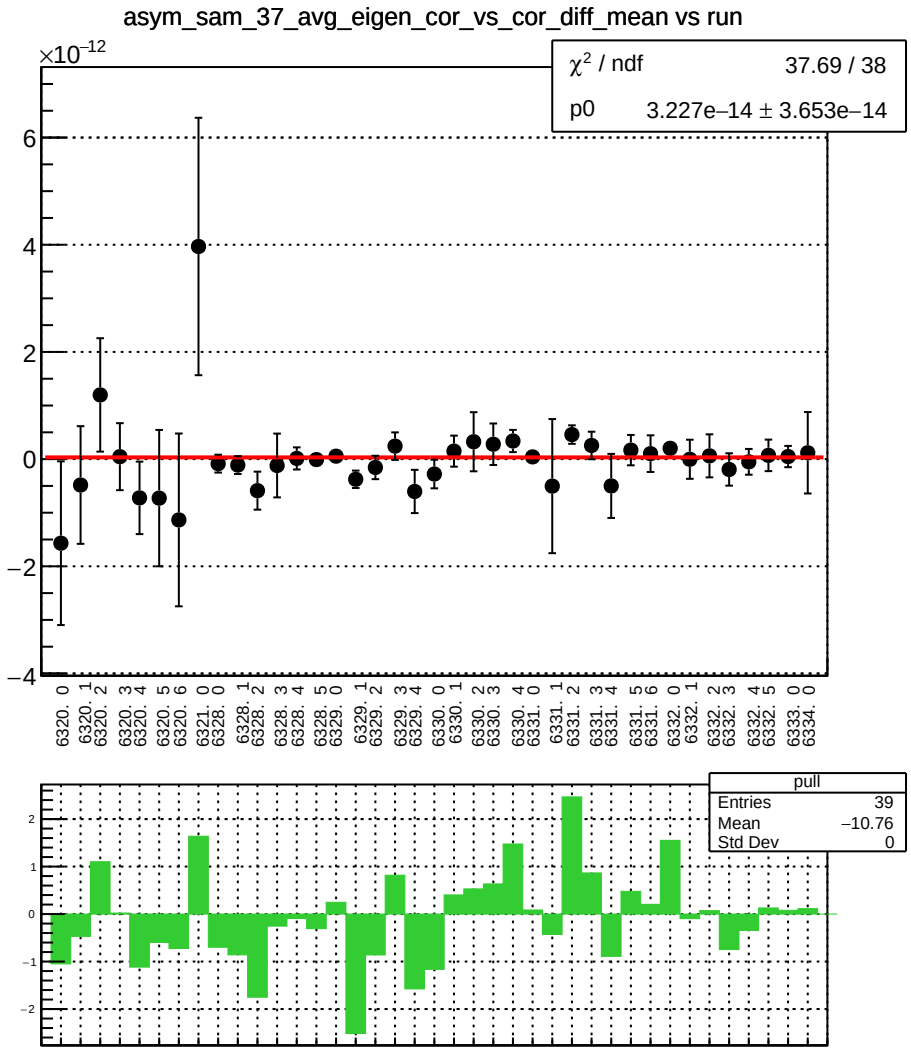

pull1D
Entries 39
Mean 0.02051
Std Dev 0.9027

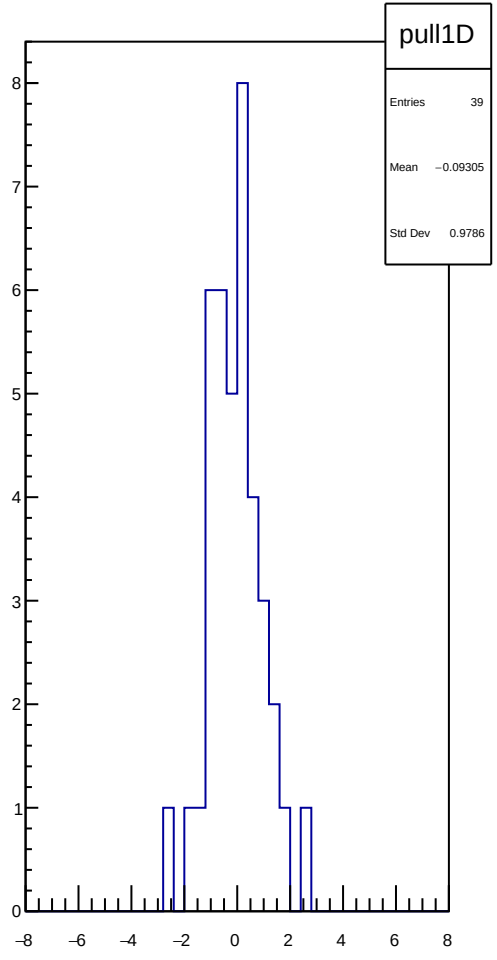

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 38
p0 46.32 ± 0.05497
110
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

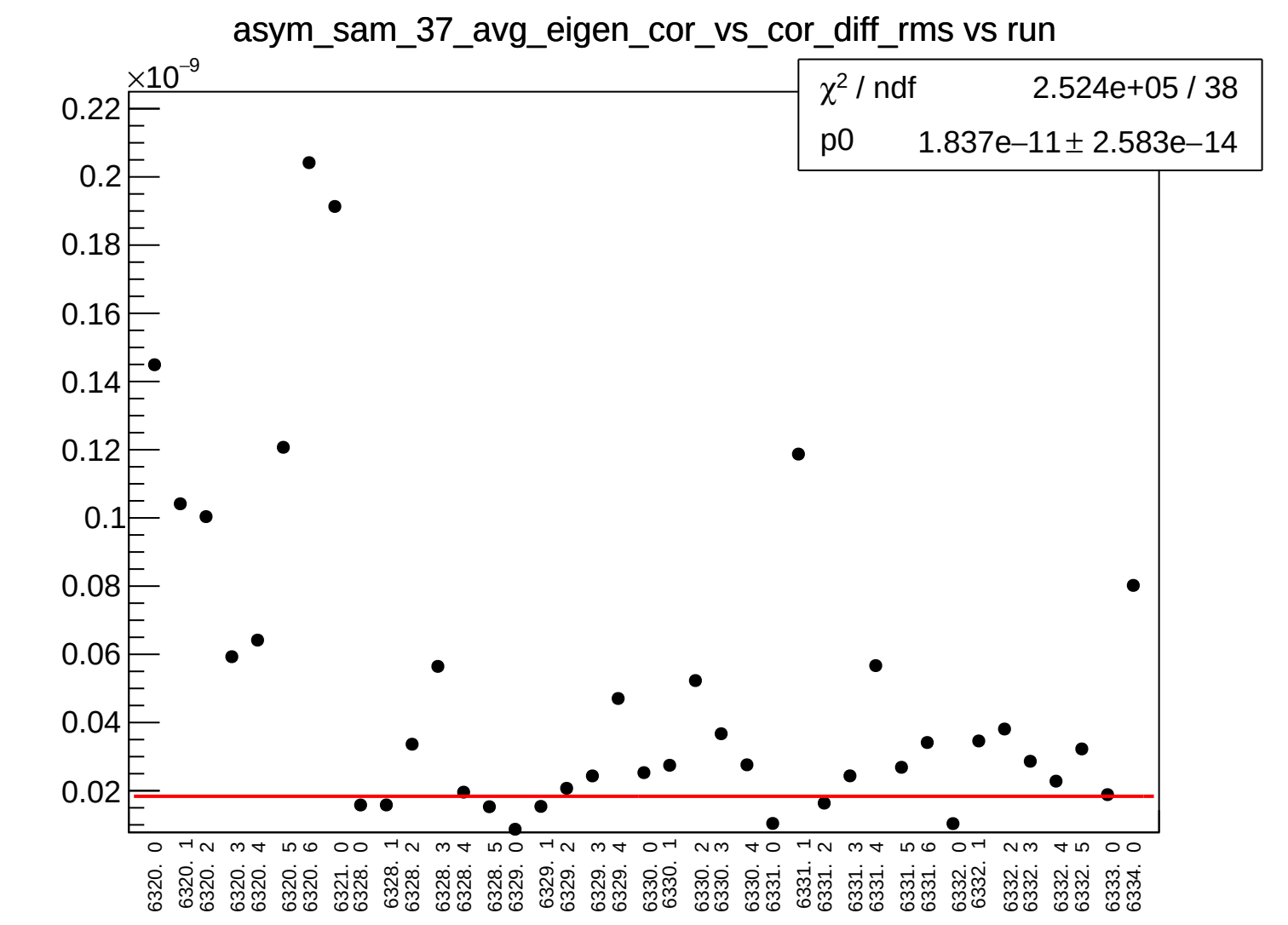

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.8 / 38
p0 −0.05331 ± 0.07774
pull
Entries 39
Mean −120.5
Std Dev 0

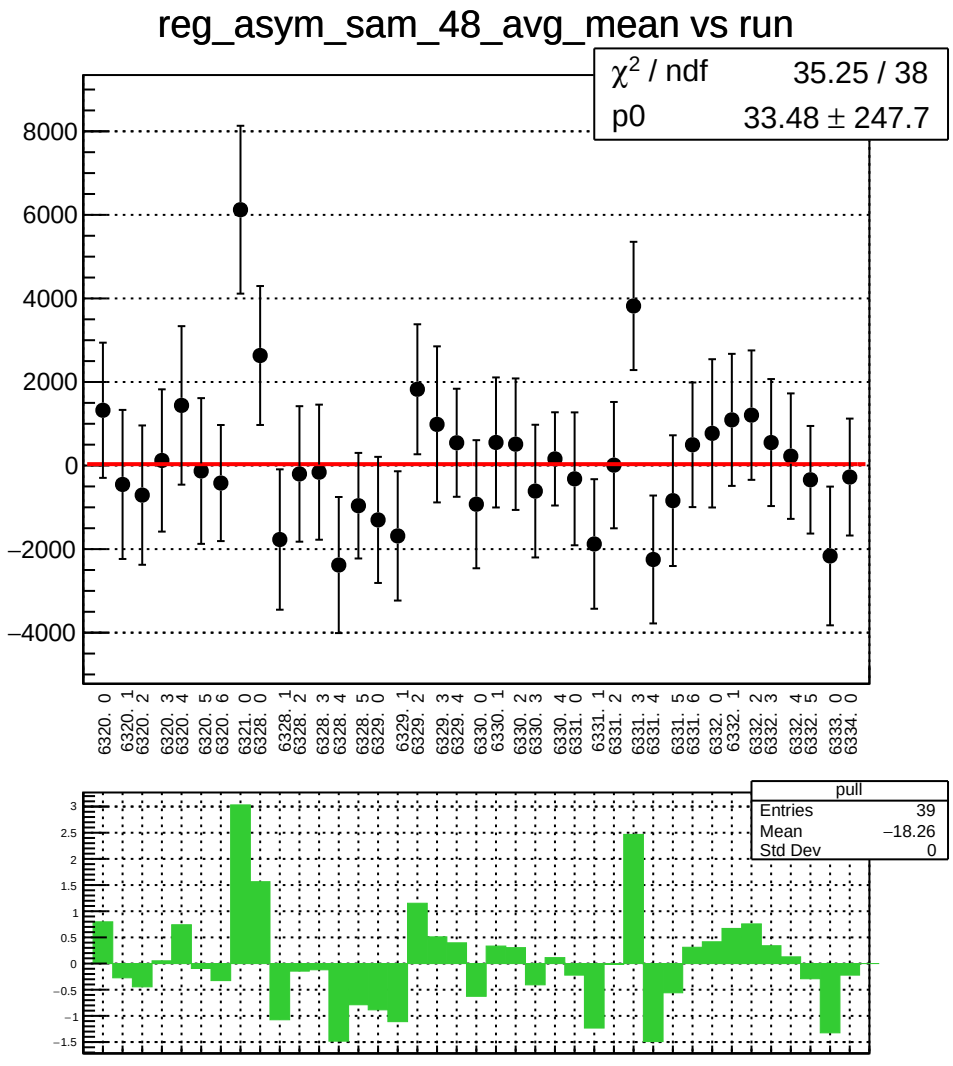

pull1D
Entries 39
Mean 0.02051
Std Dev 0.9027

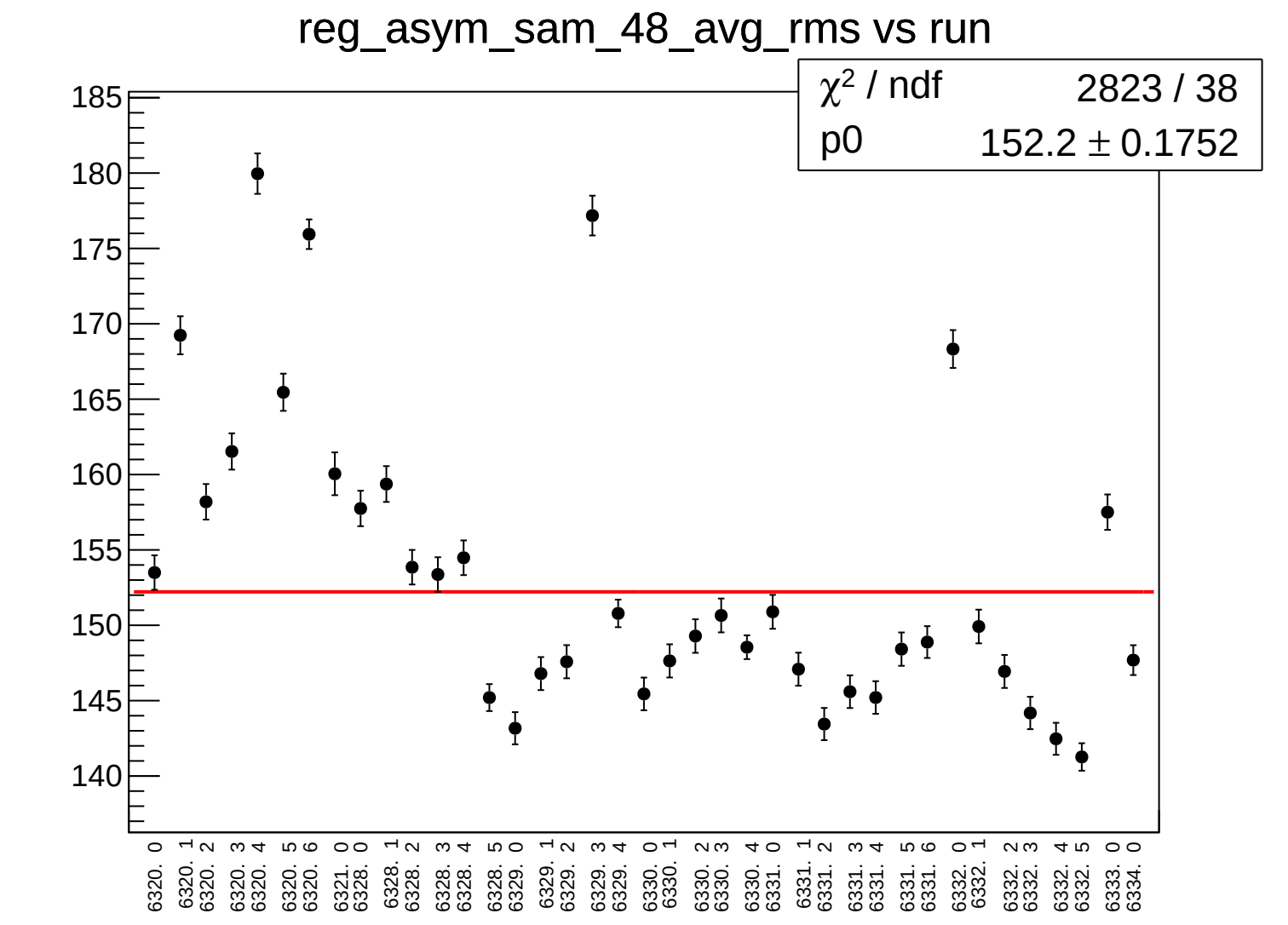

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+04 / 38
p0 46.32 ± 0.05497
110
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

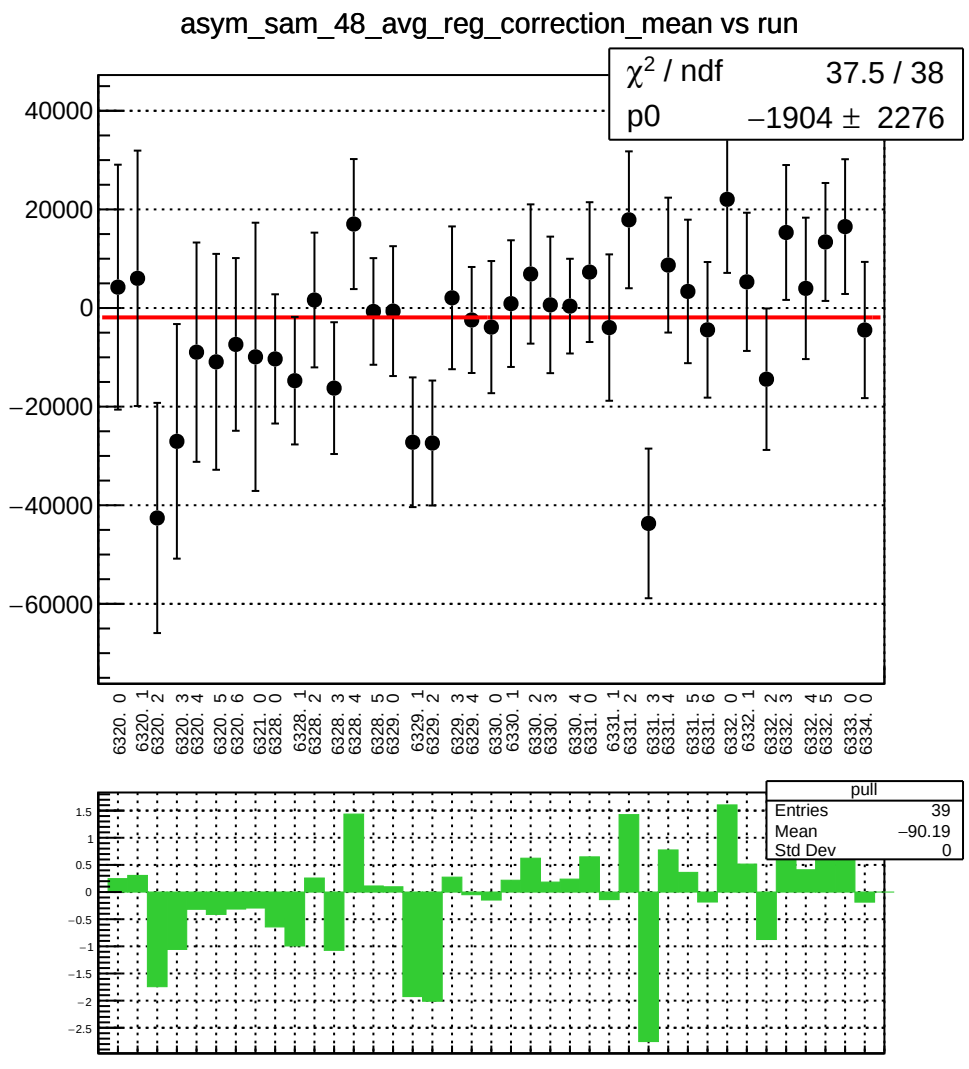

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.69 / 38
p0 3.227e−14 ± 3.653e−14
6
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.76
Std Dev 0
2
1
0
−1
−2

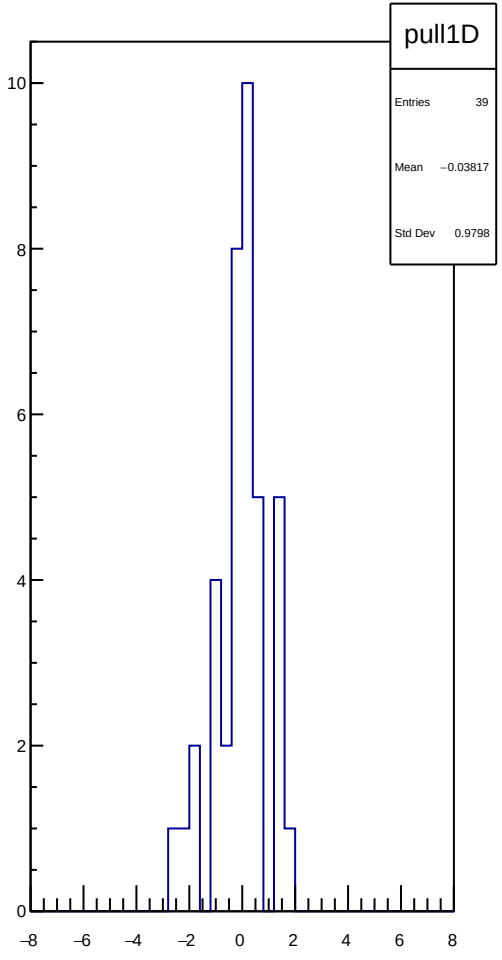

pull1D
Entries 39
Mean −0.09305
Std Dev 0.9786
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

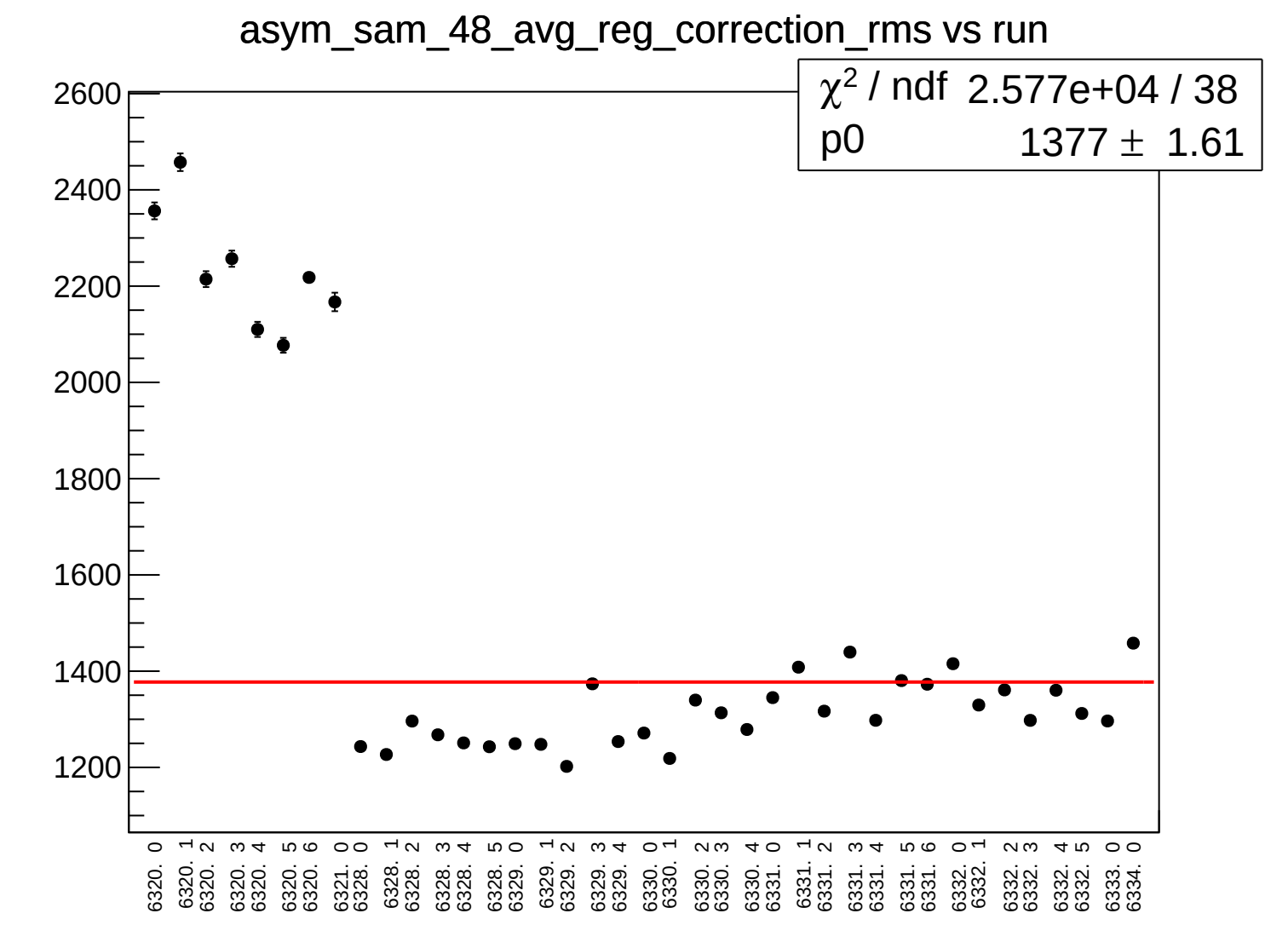

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.524e+05 / 38
p0 1.837e−11 ± 2.583e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

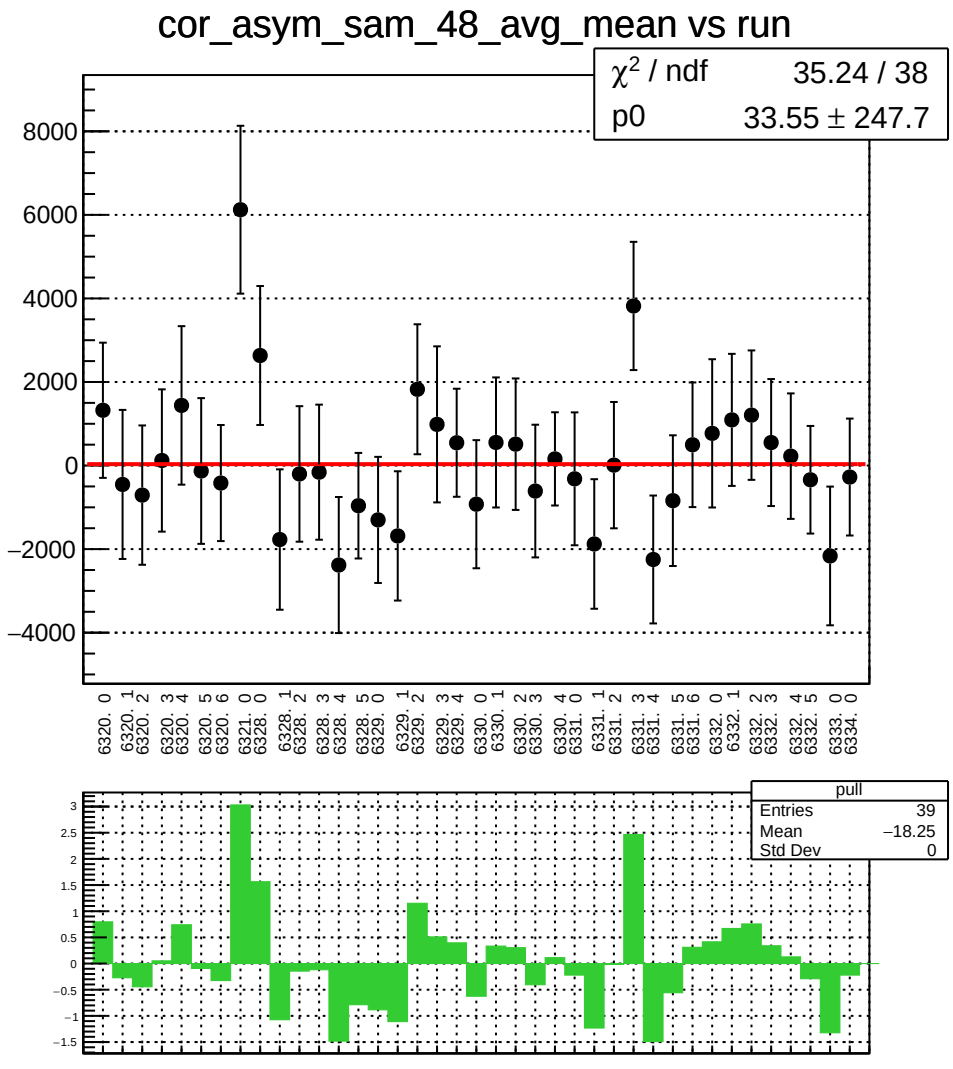

reg_asym_sam_48_avg_mean vs run
χ² / ndf 35.25 / 38
p0 33.48 ± 247.7
8000
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.26
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02469
Std Dev 0.9503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

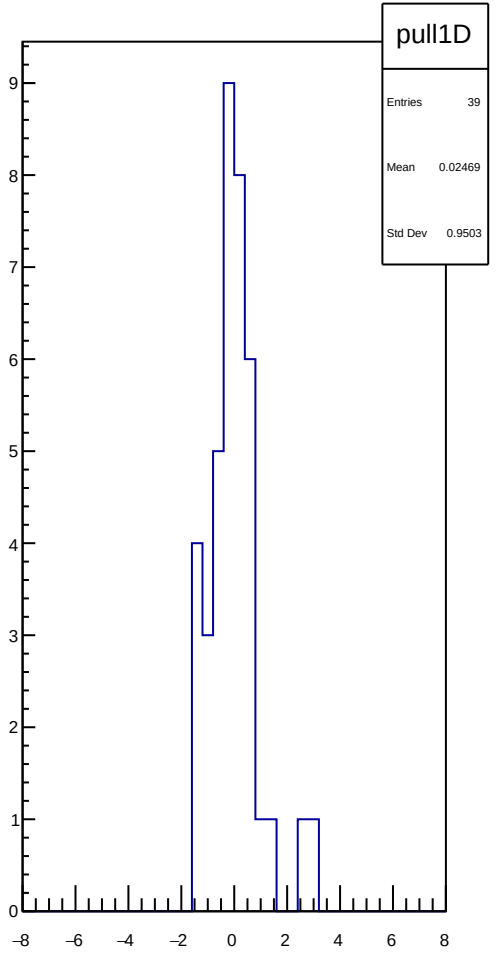

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2823 / 38
p0 152.2 ± 0.1752
185
180
175
170
165
160
155
150
145
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

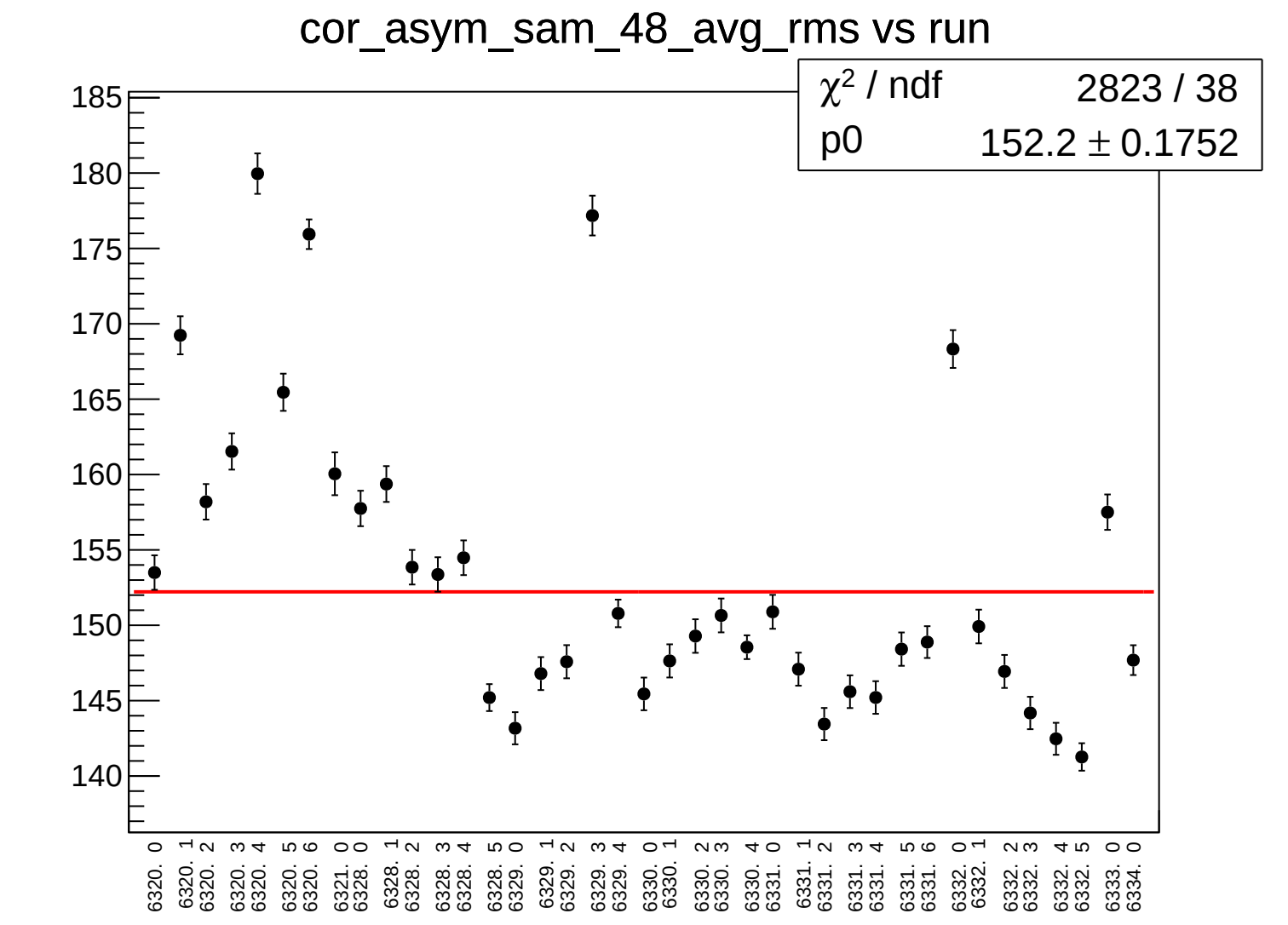

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 37.5 / 38
p0 −1904 ± 2276
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −90.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

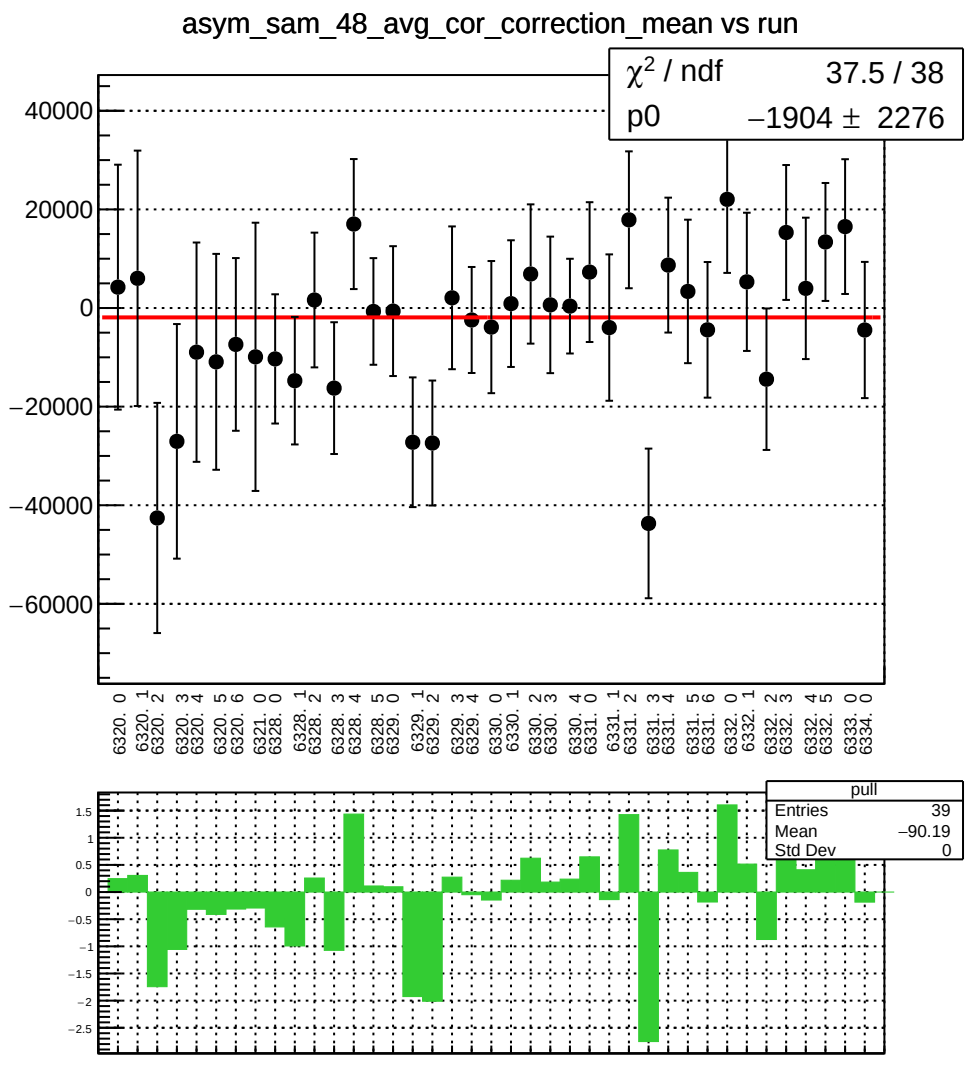

pull1D
Entries 39
Mean −0.03817
Std Dev 0.9798
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

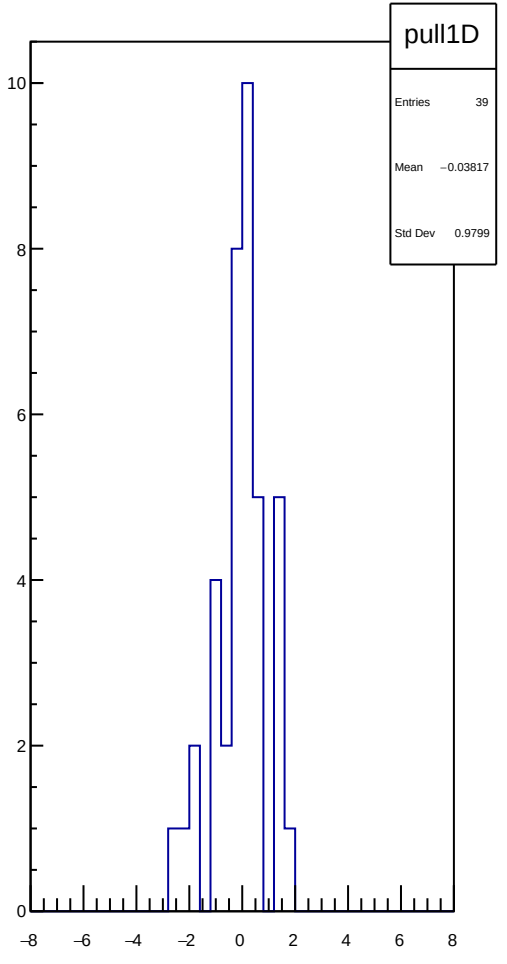

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2.577e+04 / 38
p0 1377 ± 1.61
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

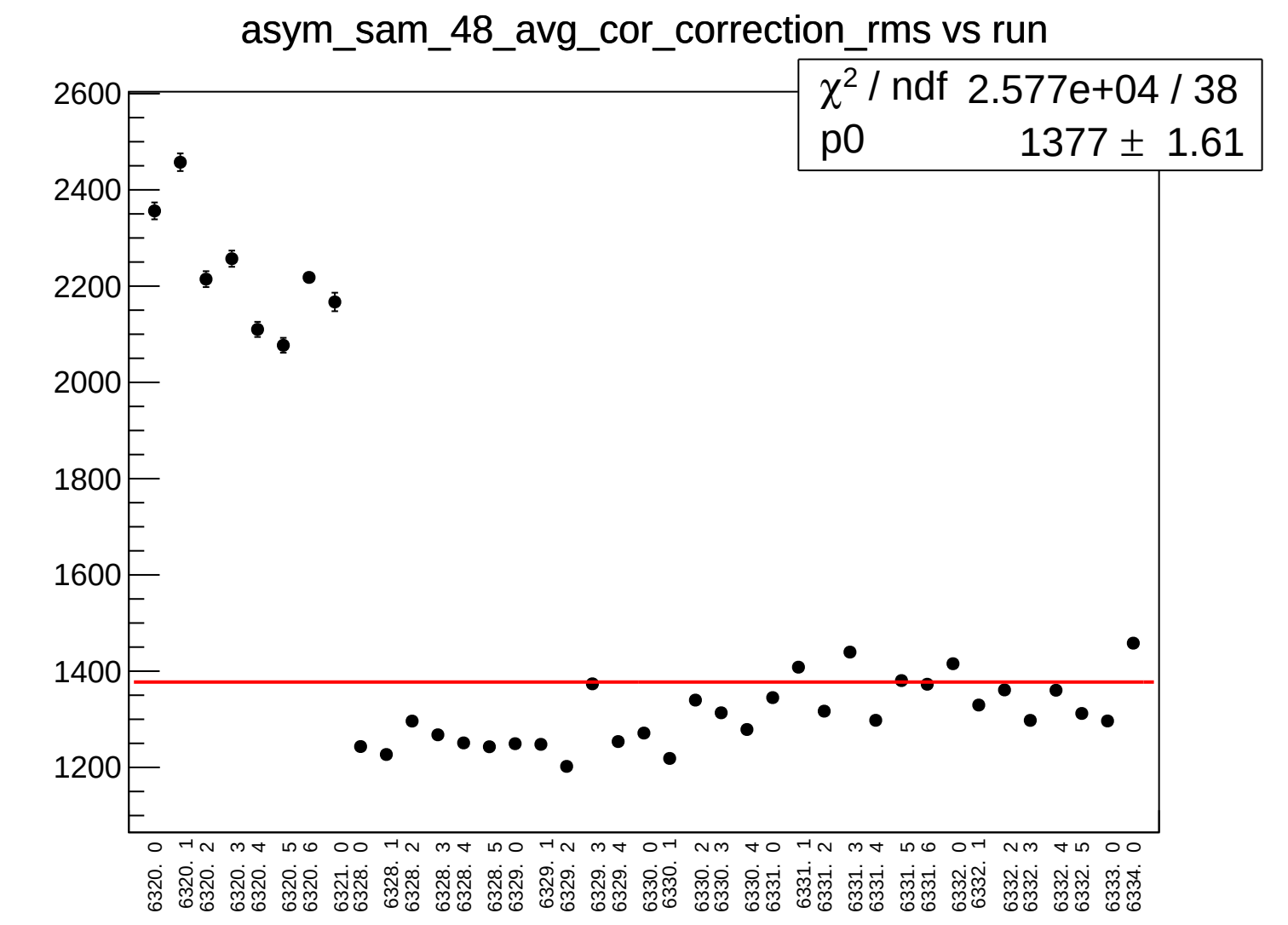

cor_asym_sam_48_avg_mean vs run
χ² / ndf 35.24 / 38
p0 33.55 ± 247.7
8000
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.25
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

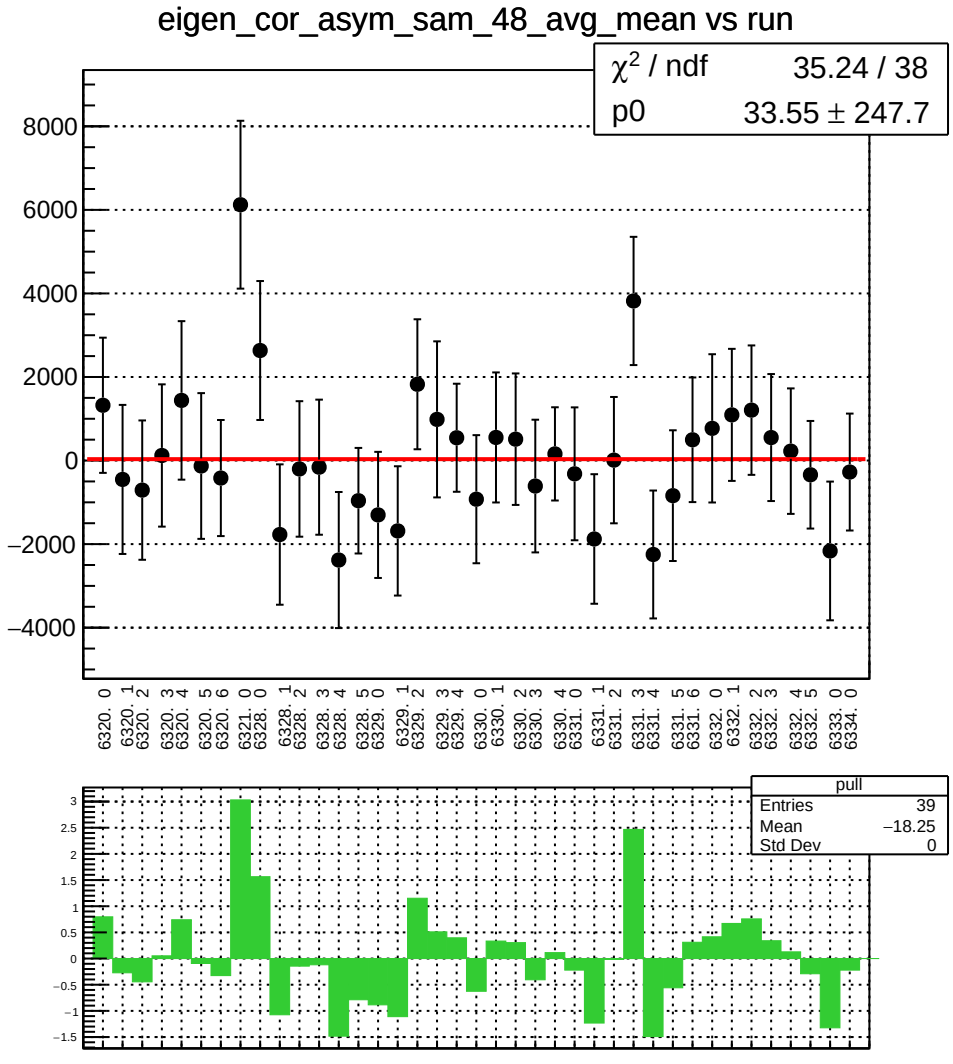

pull1D
Entries 39
Mean 0.02469
Std Dev 0.9503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

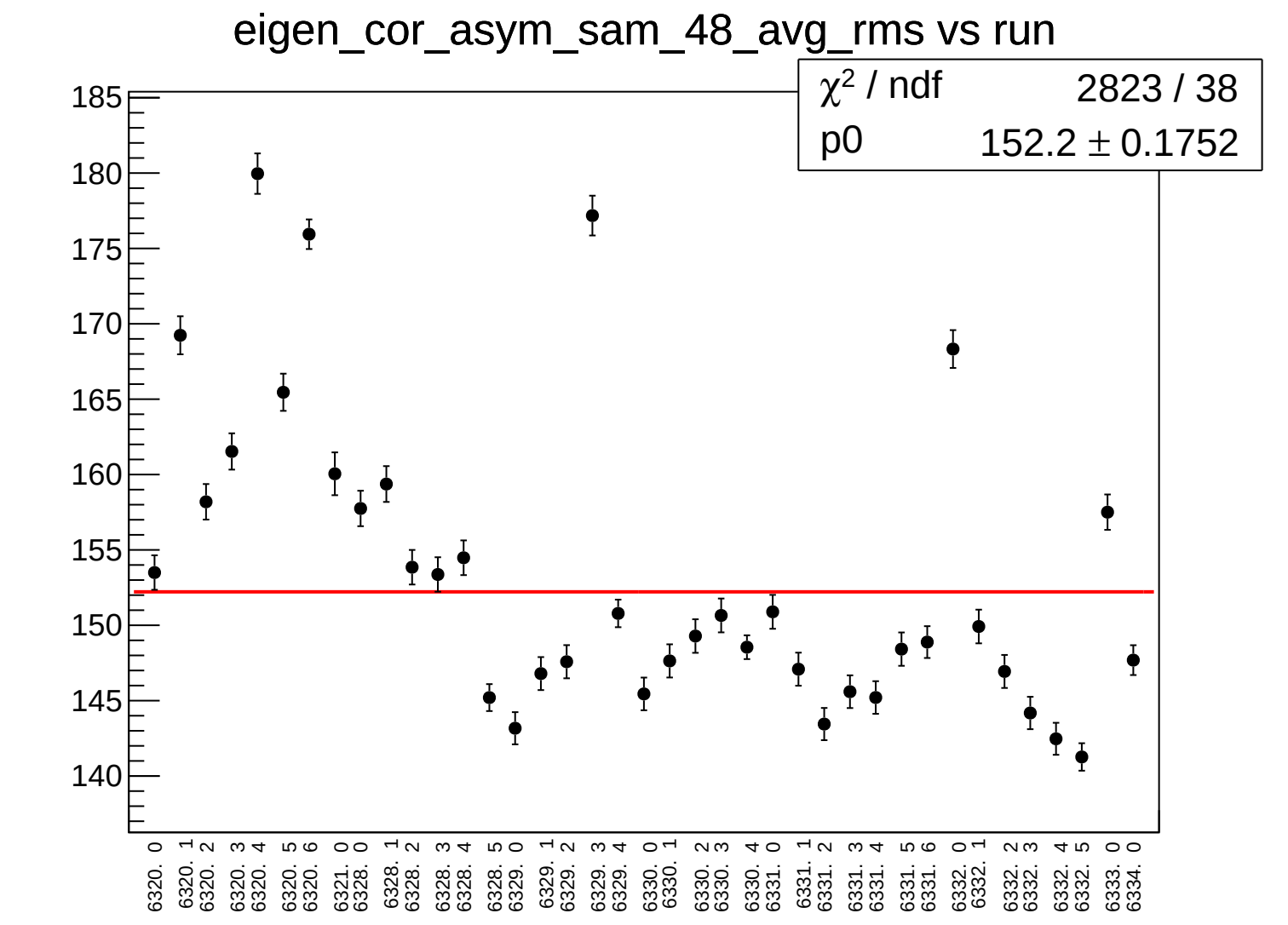

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2823 / 38
p0 152.2 ± 0.1752
185
180
175
170
165
160
155
150
145
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

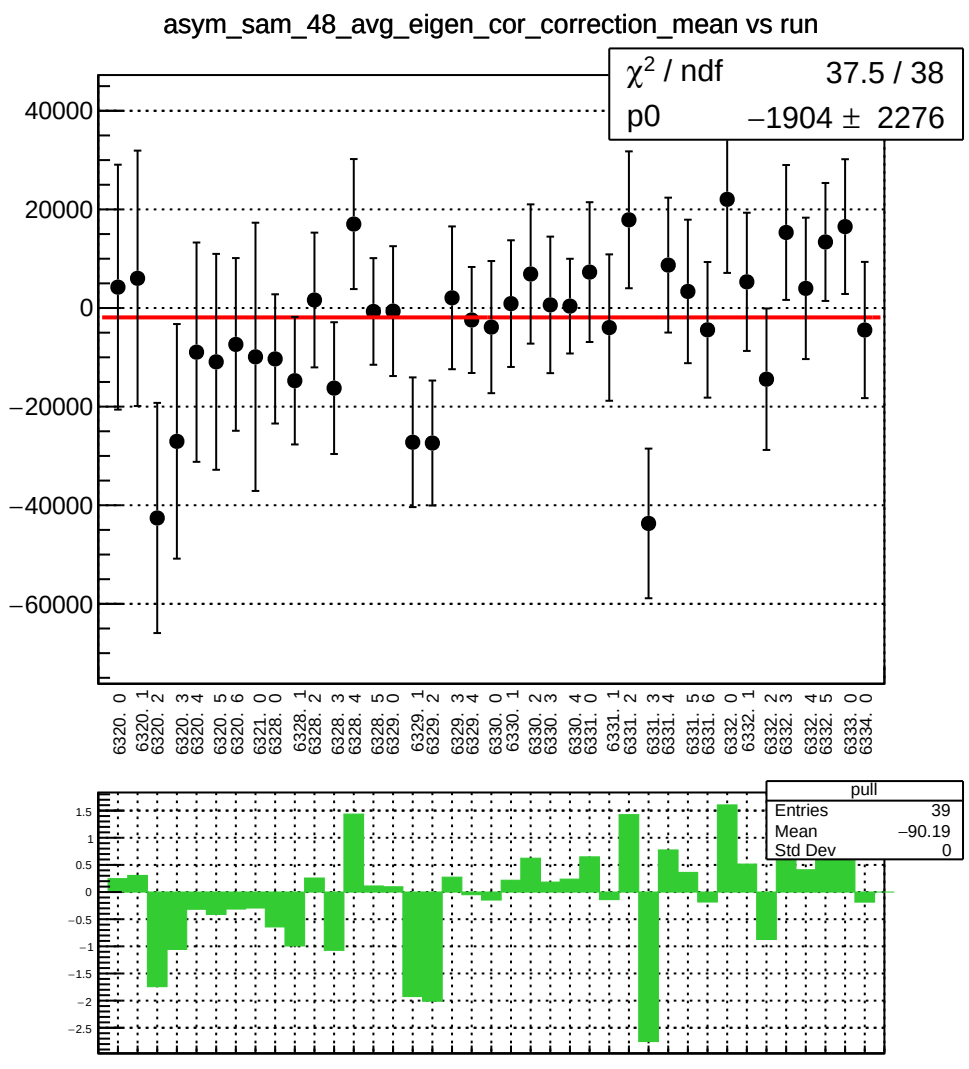

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 37.5 / 38
p0 −1904 ± 2276
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −90.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

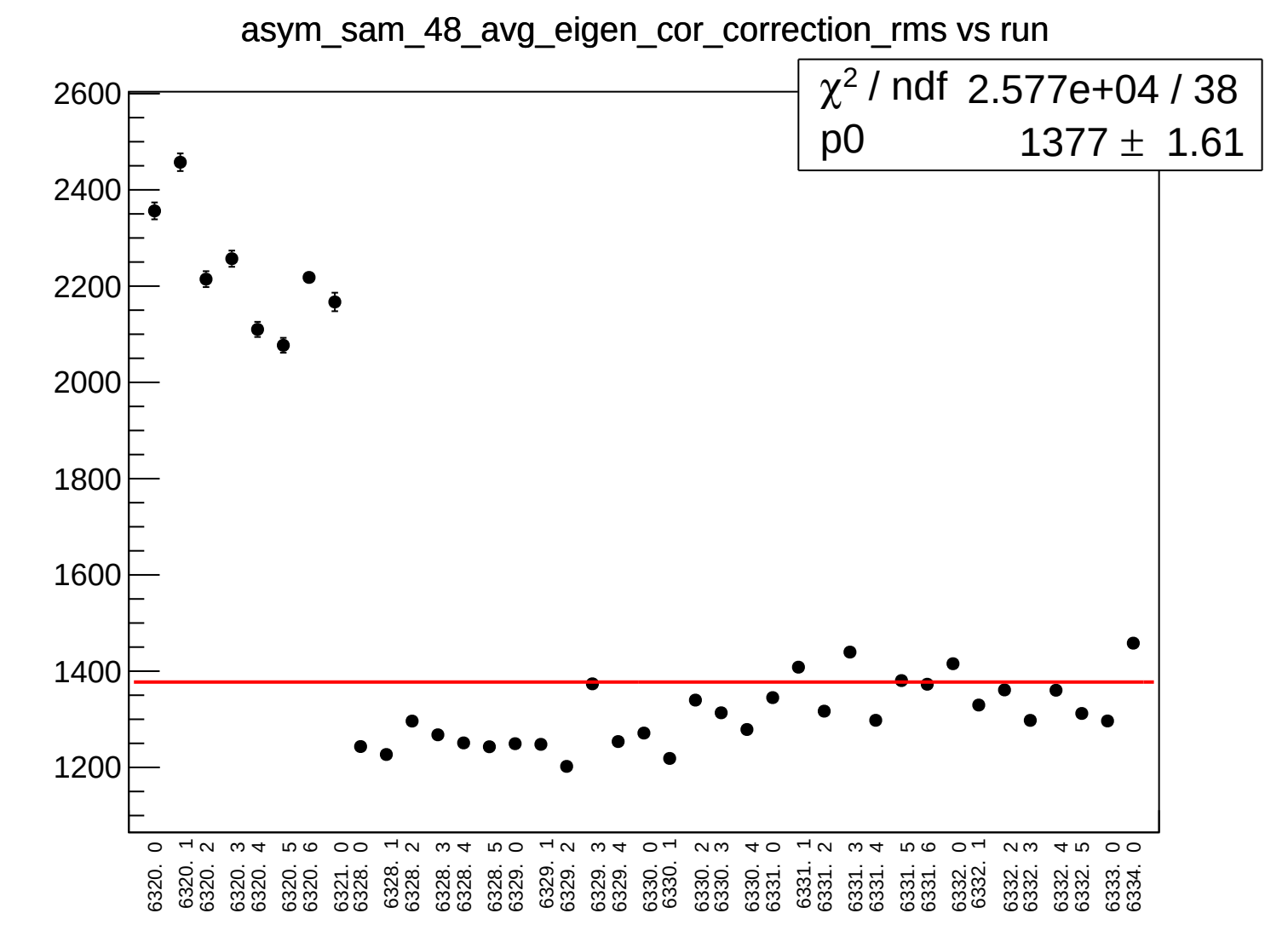

pull1D
Entries 39
Mean −0.03817
Std Dev 0.9799
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

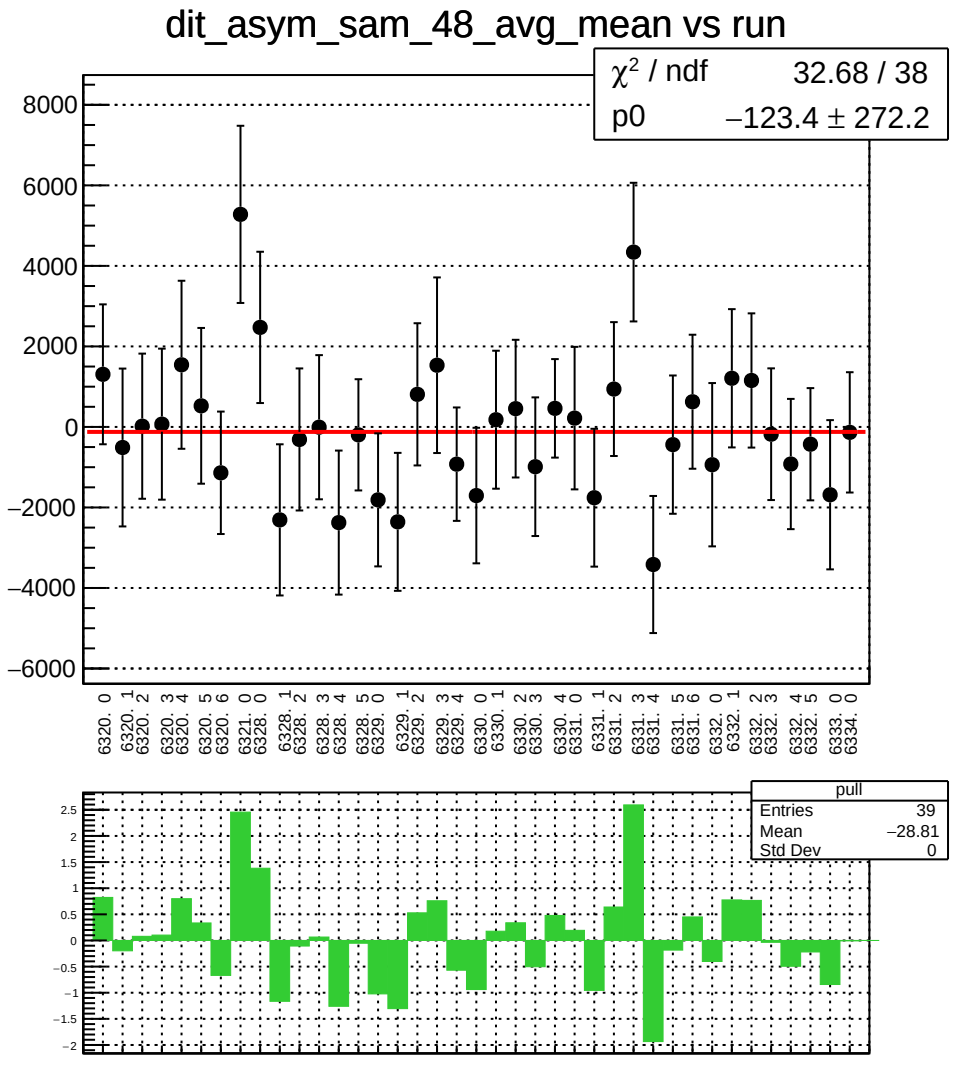

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2.577e+04 / 38
p0 1377 ± 1.61
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

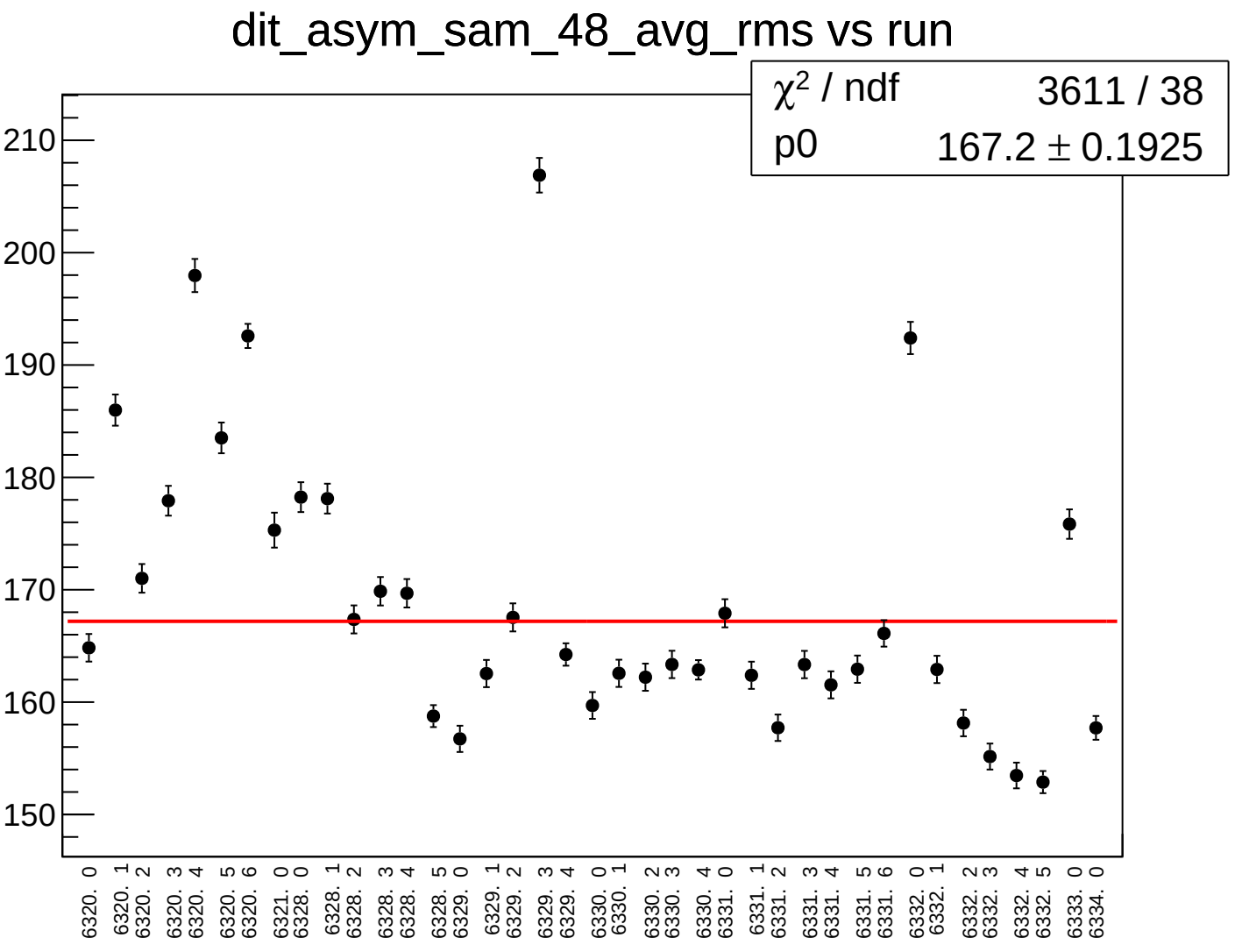

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 35.24 / 38
p0 33.55 ± 247.7
8000
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −18.25
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02469
Std Dev 0.9503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

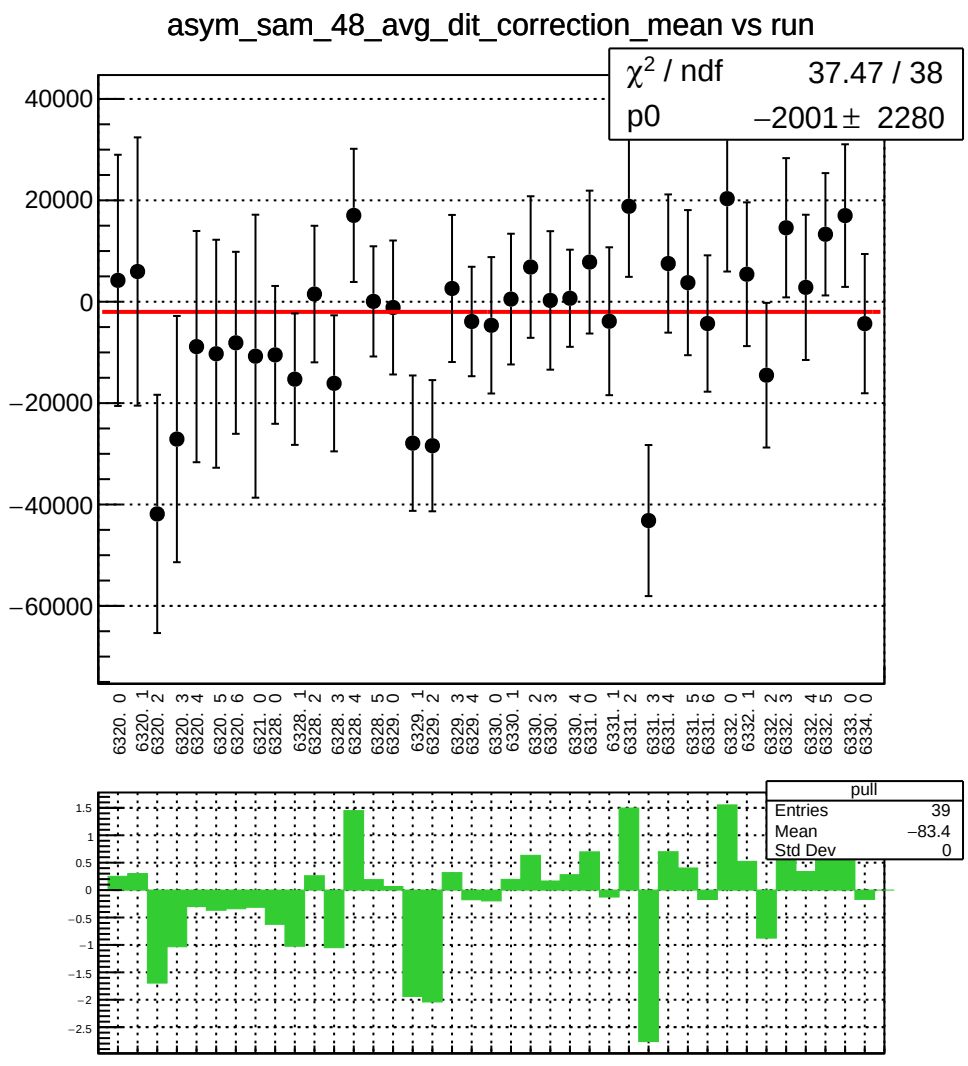

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2823 / 38
p0 152.2 ± 0.1752
185
180
175
170
165
160
155
150
145
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

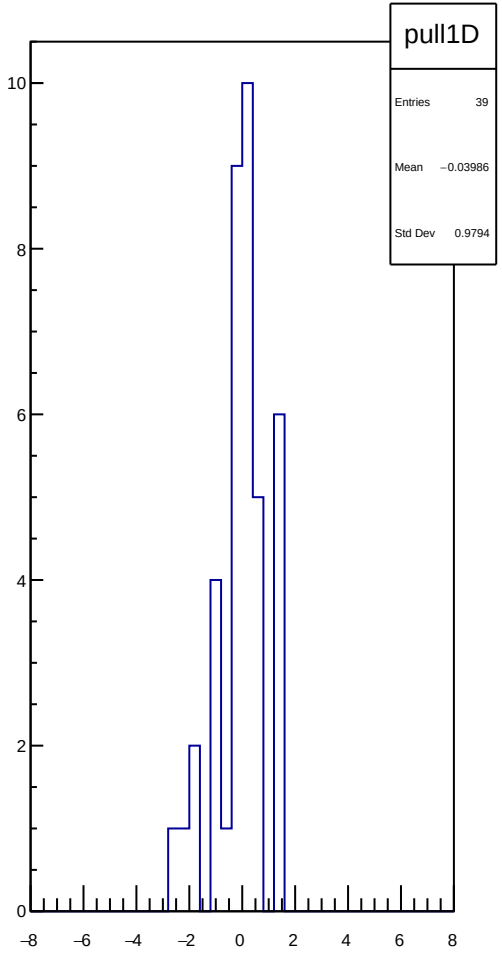

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.5 / 38
p0 −1904 ± 2276
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −90.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03817
Std Dev 0.9799
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

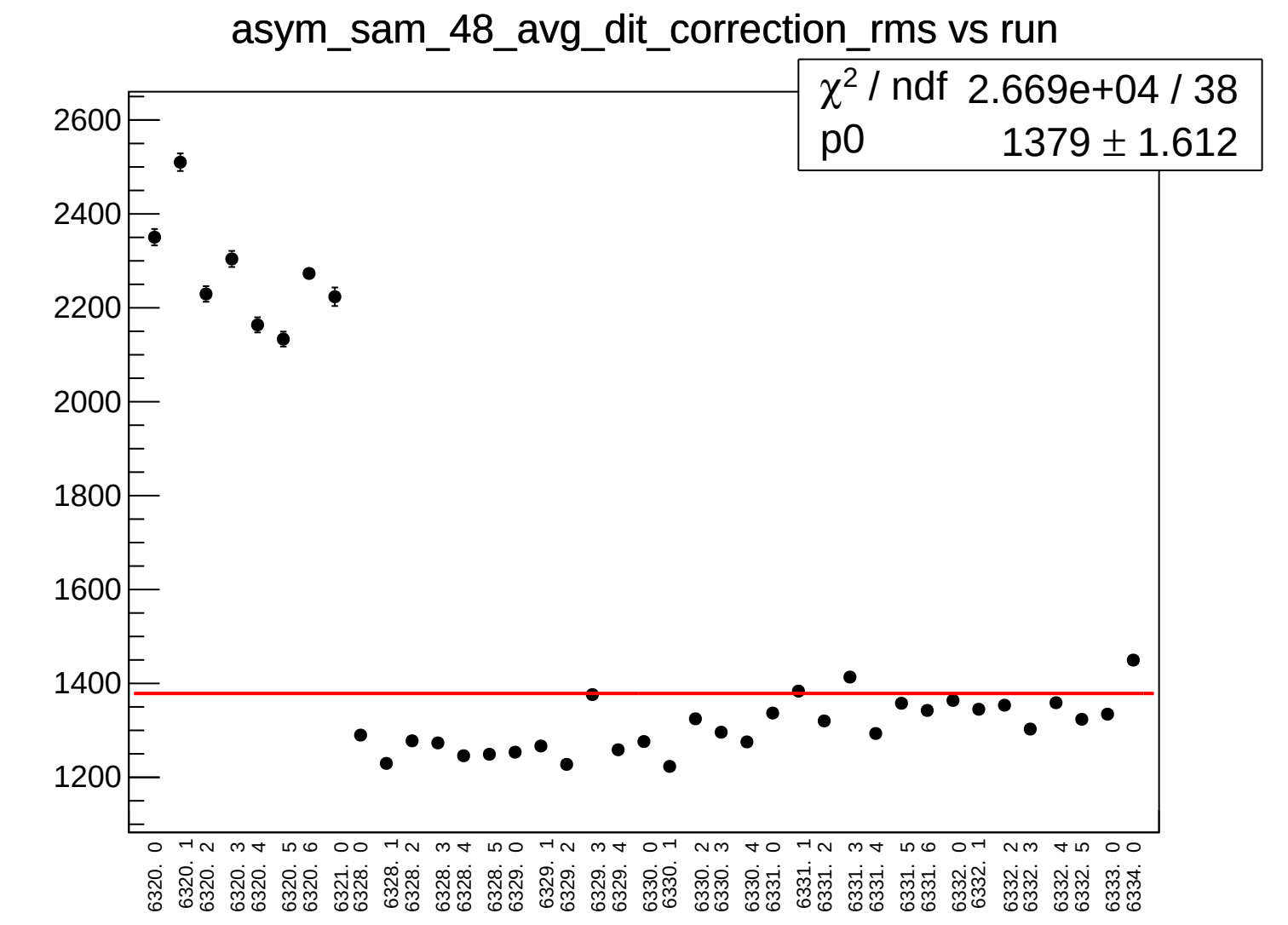

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.577e+04 / 38
p0 1377 ± 1.61
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

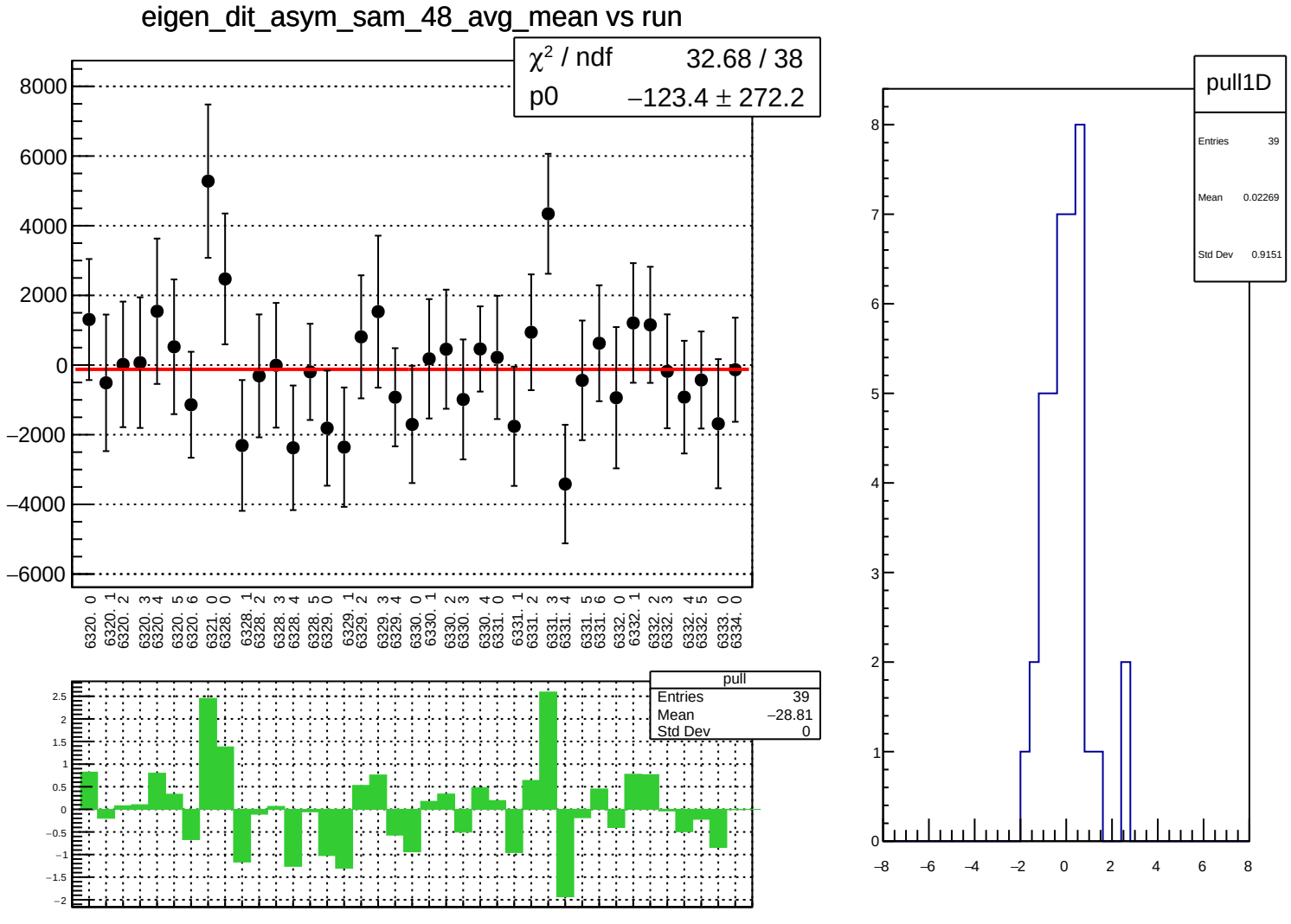

dit_asym_sam_48_avg_mean vs run
χ² / ndf 32.68 / 38
p0 −123.4 ± 272.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02269
Std Dev 0.9151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

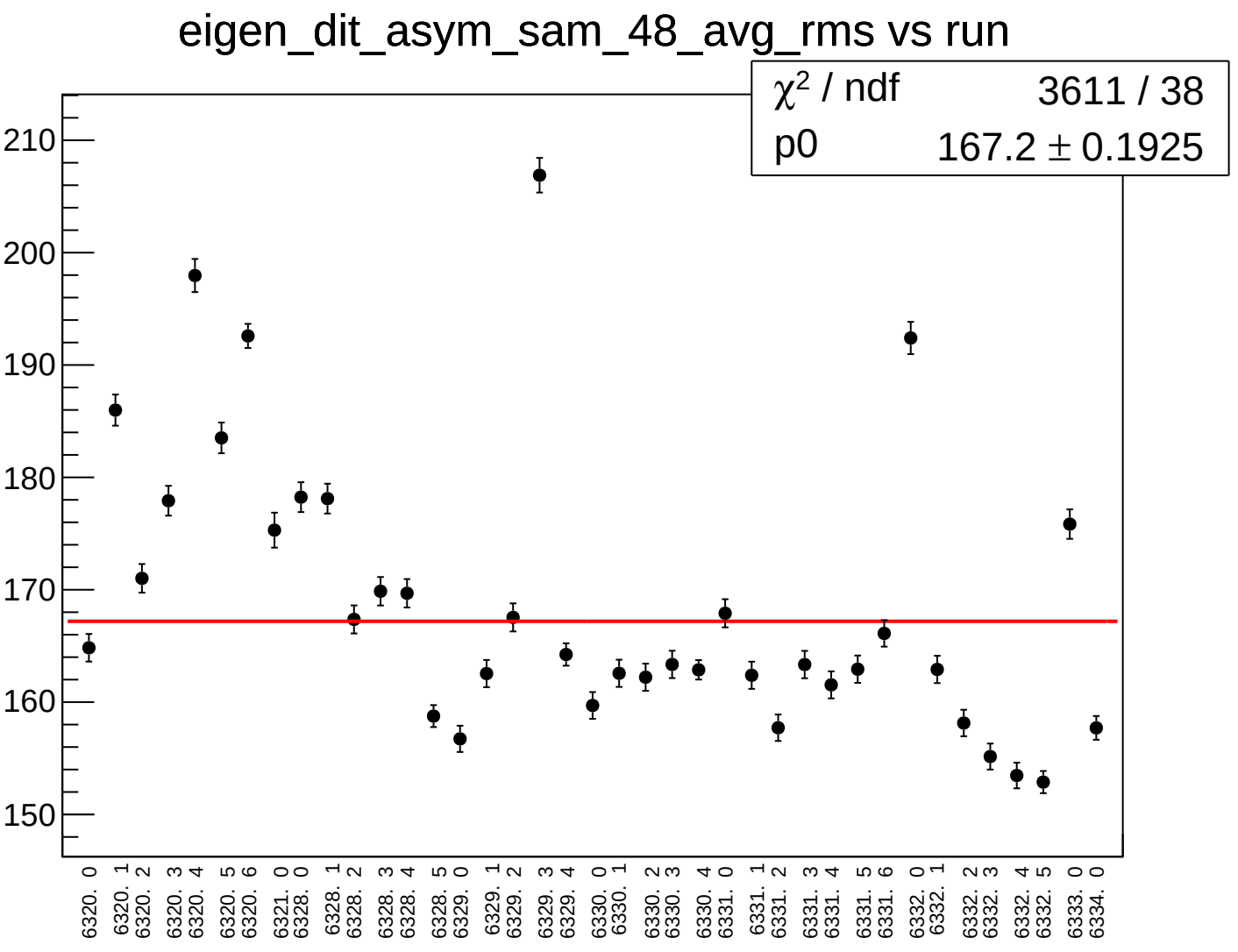

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3611 / 38
p0 167.2 ± 0.1925
210
200
190
180
170
160
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

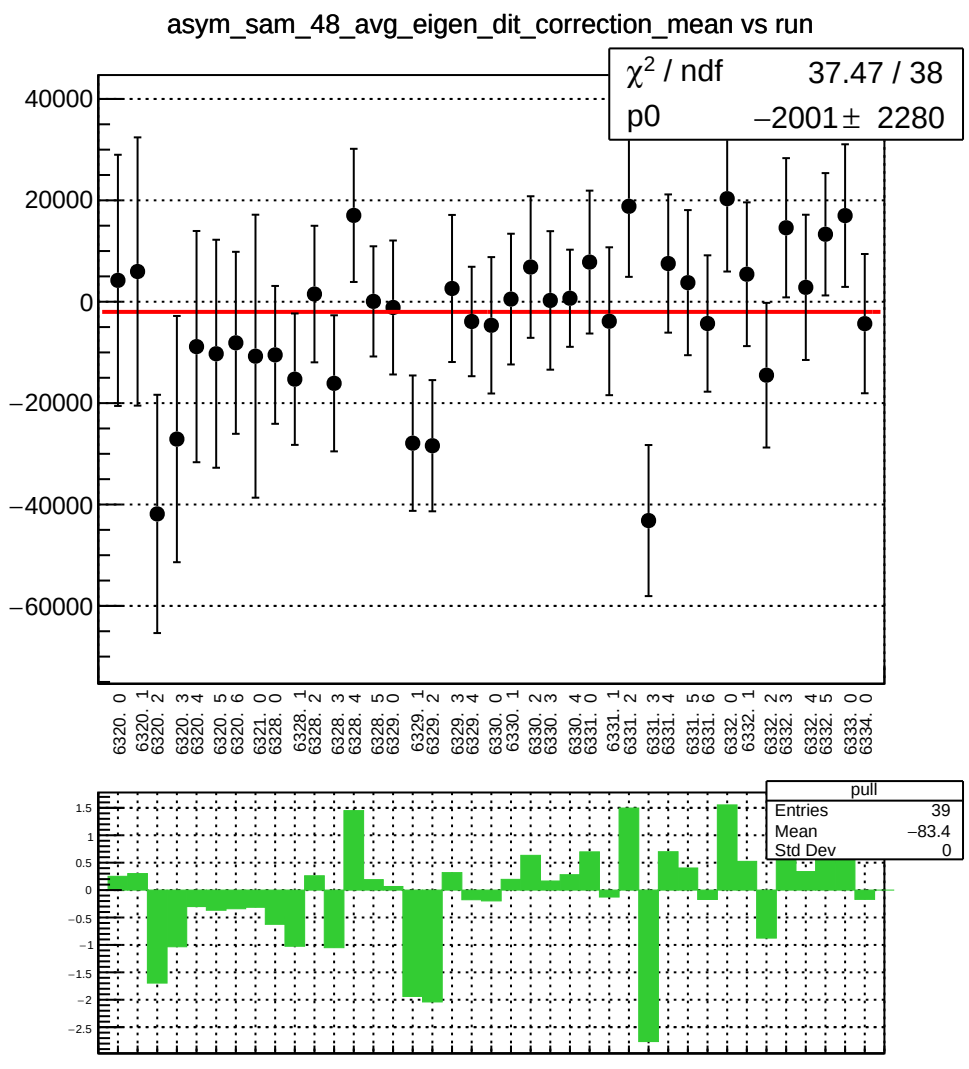

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 37.47 / 38
p0 −2001 ± 2280
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −83.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

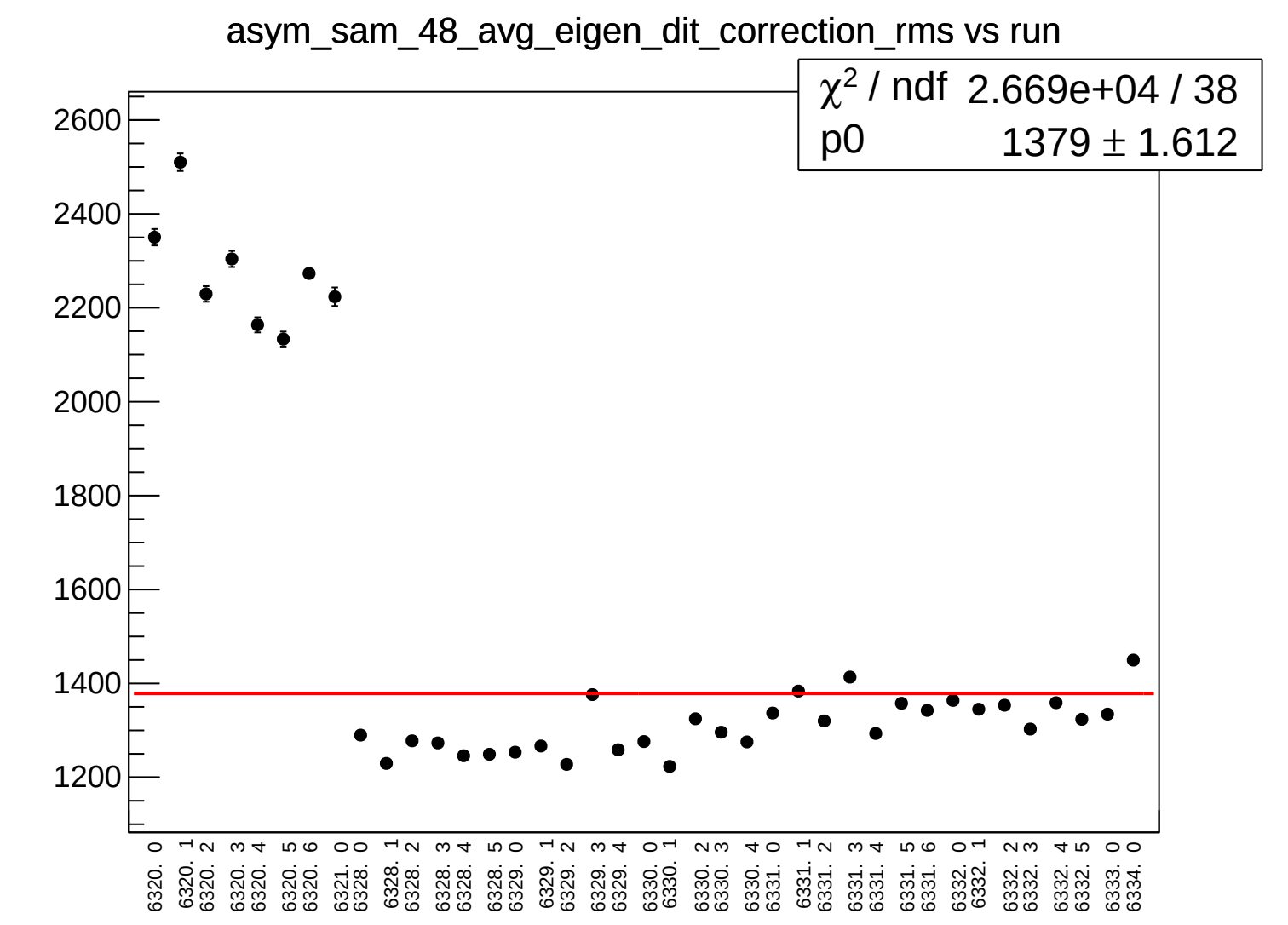

pull1D
Entries 39
Mean −0.03986
Std Dev 0.9794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

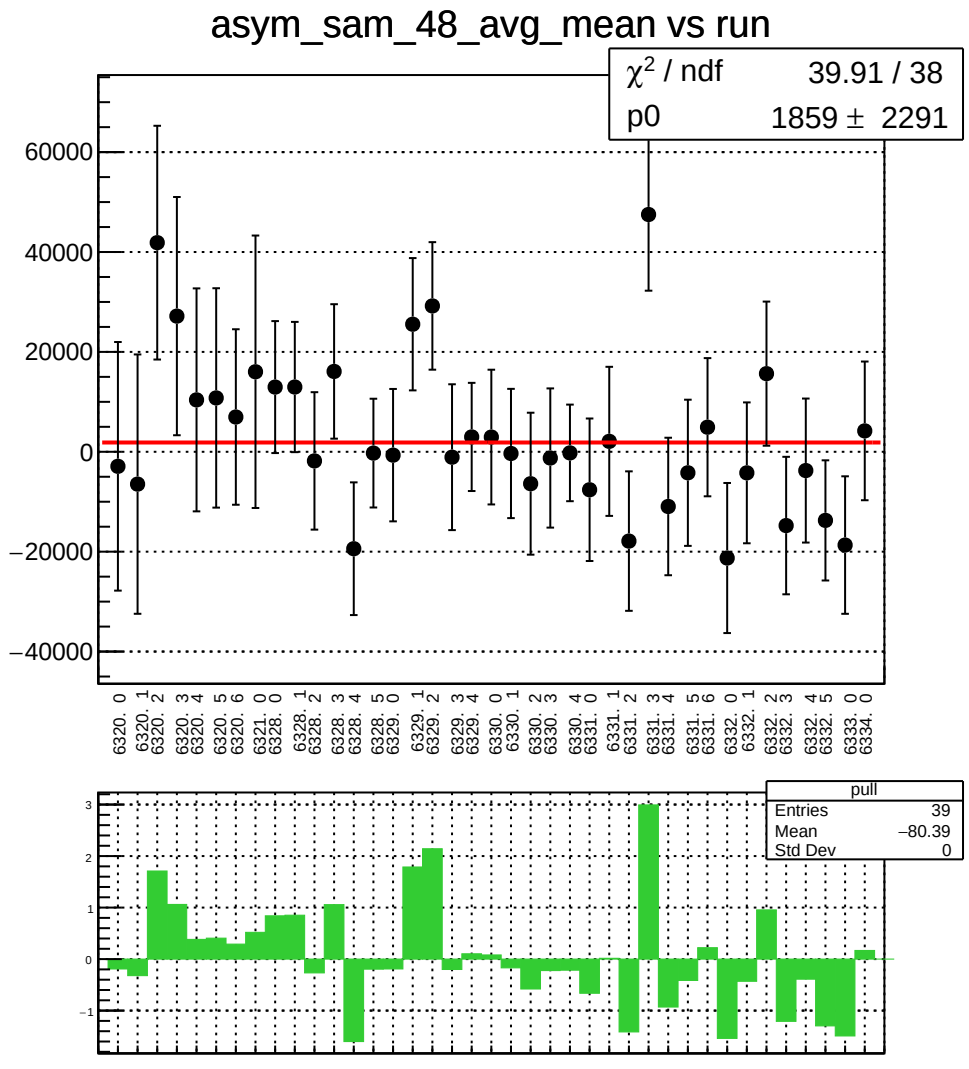

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2.669e+04 / 38
p0 1379 ± 1.612
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

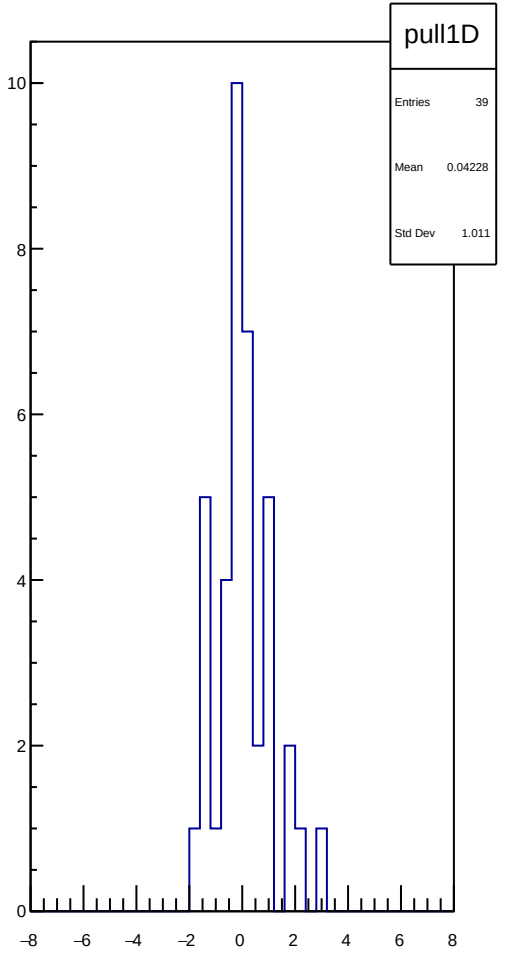

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 32.68 / 38
p0 −123.4 ± 272.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02269
Std Dev 0.9151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

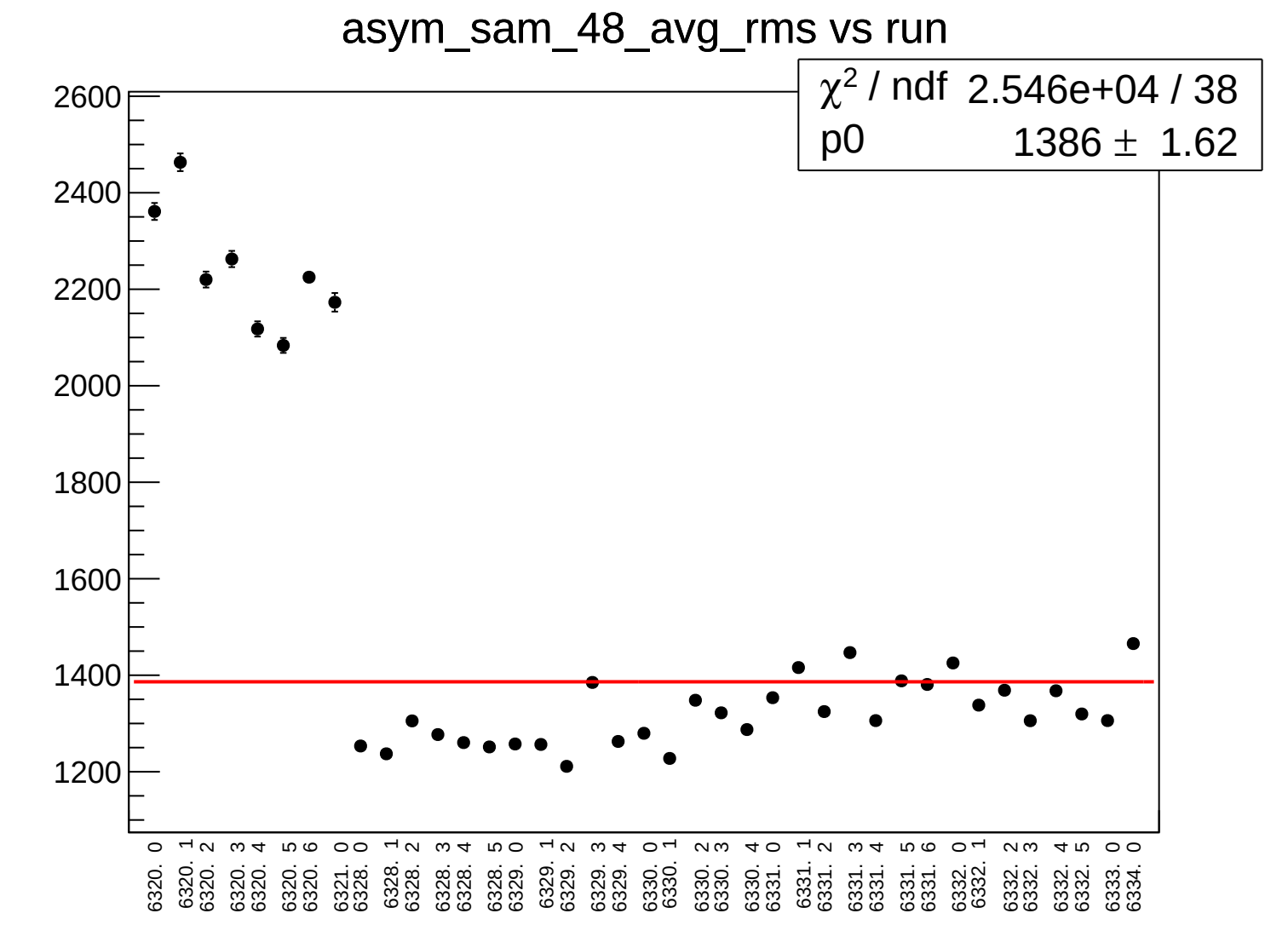

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3611 / 38
p0 167.2 ± 0.1925
210
200
190
180
170
160
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

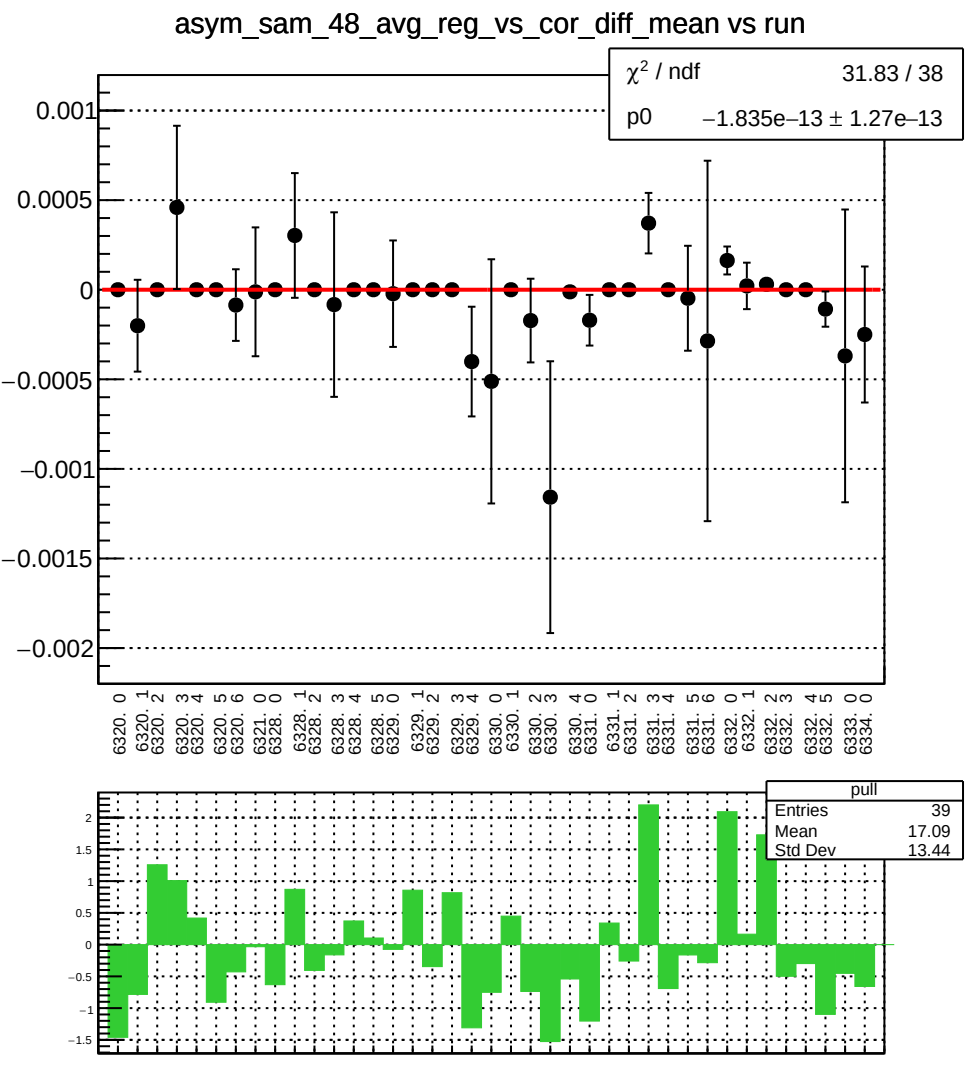

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.47 / 38
p0 −2001 ± 2280
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −83.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03986
Std Dev 0.9794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

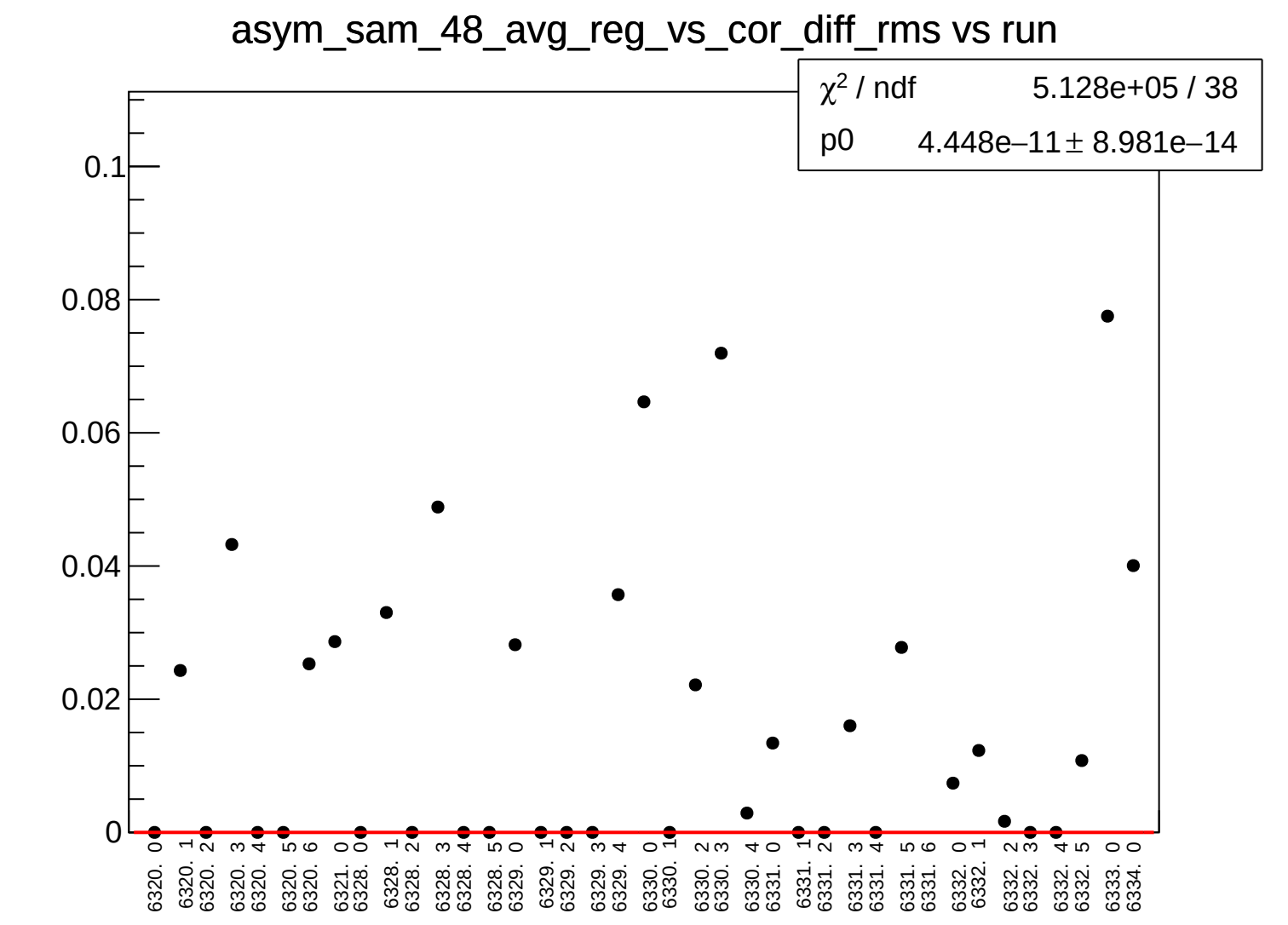

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.669e+04 / 38
p0 1379 ± 1.612
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

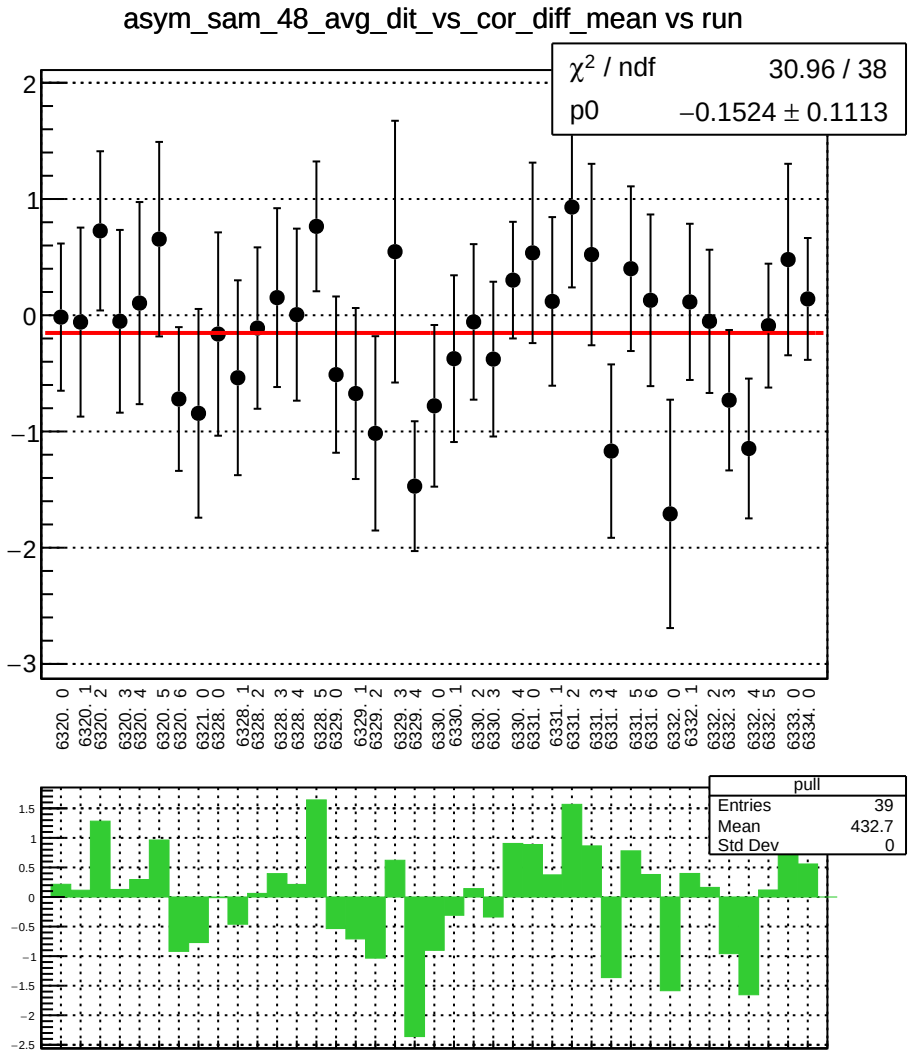

asym_sam_48_avg_mean vs run
χ² / ndf 39.91 / 38
p0 1859 ± 2291
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −80.39
Std Dev 0
3
2
1
0
−1

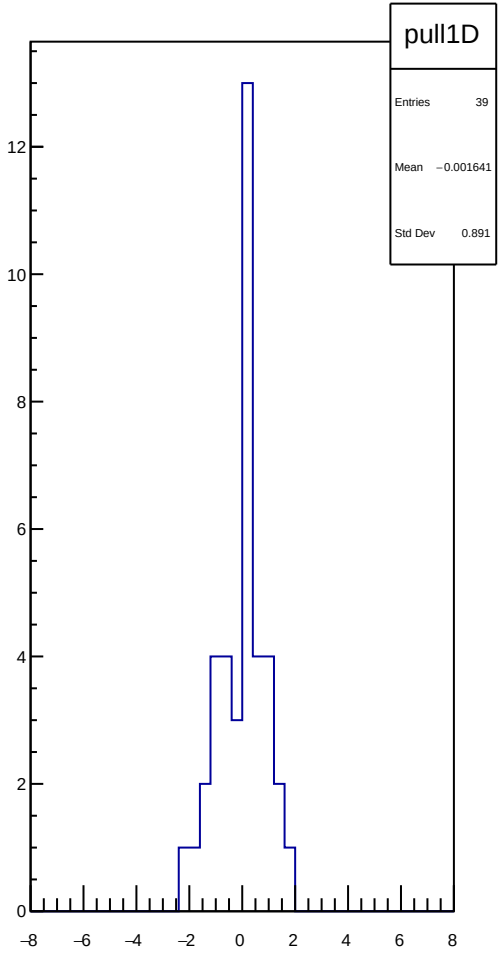

pull1D
Entries 39
Mean 0.04228
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

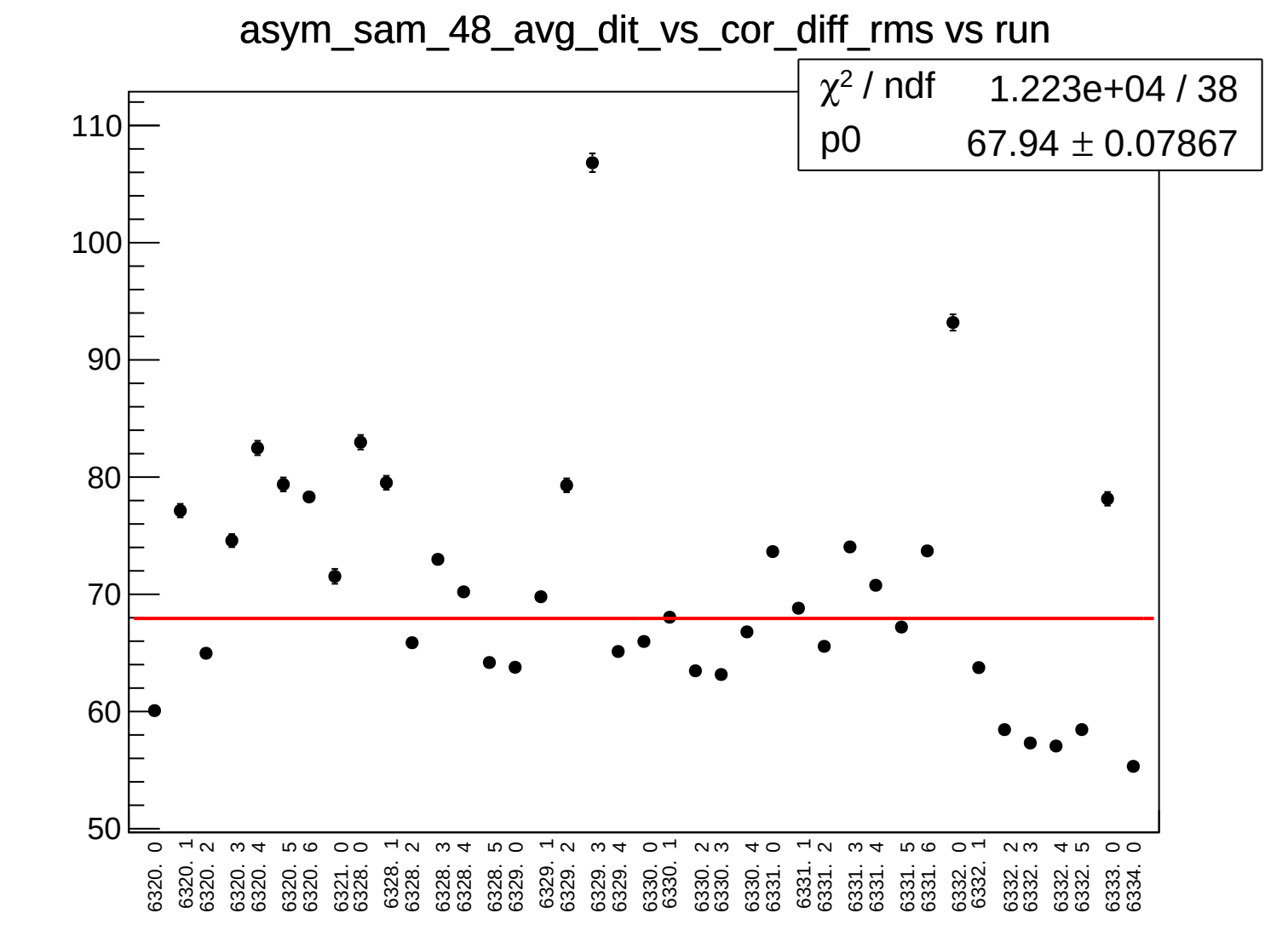

asym_sam_48_avg_rms vs run
χ² / ndf 2.546e+04 / 38
p0 1386 ± 1.62
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

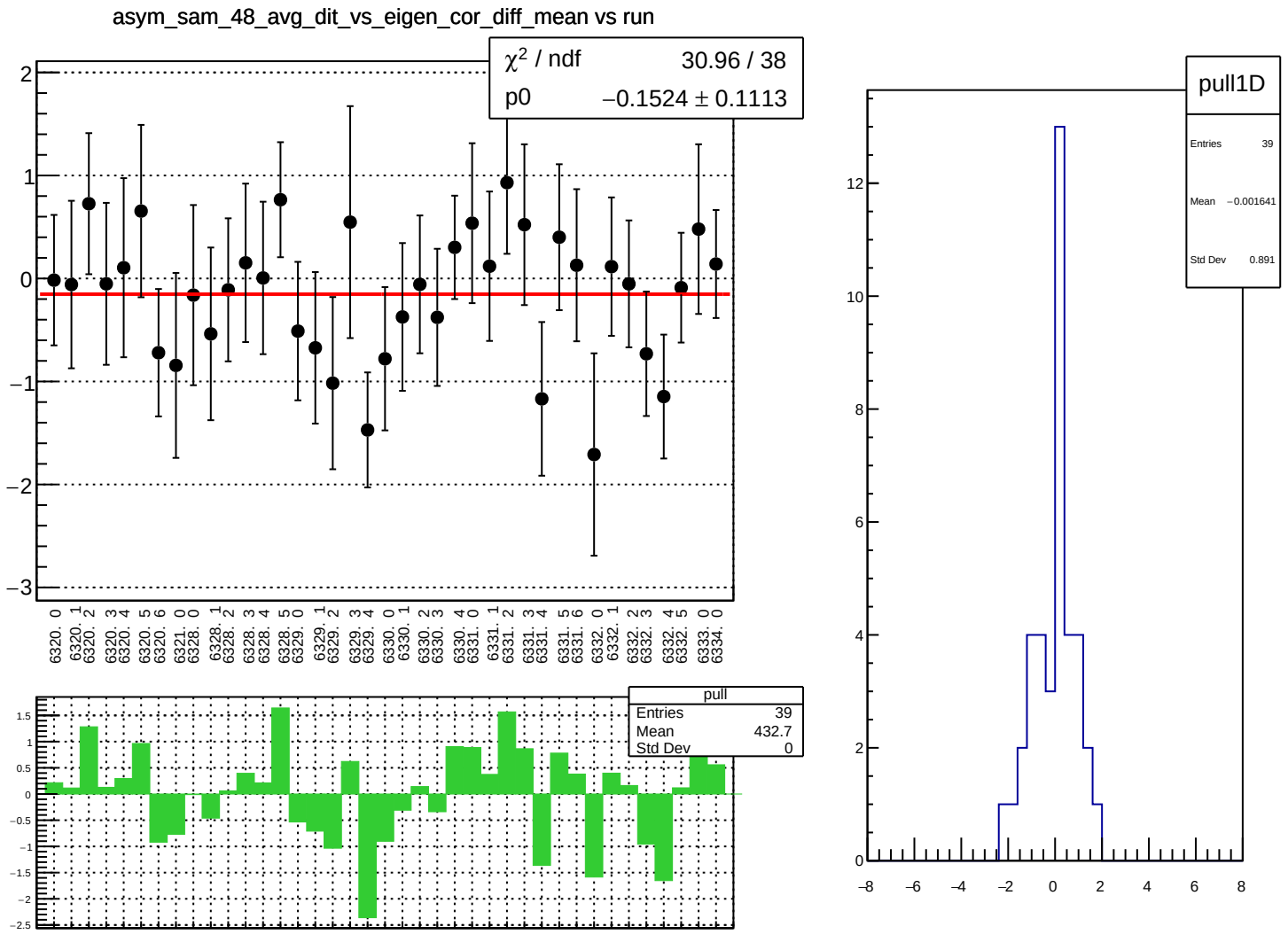

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.83 / 38
p0 −1.835e−13 ± 1.27e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 17.09
Std Dev 13.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.07751
Std Dev 0.9
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

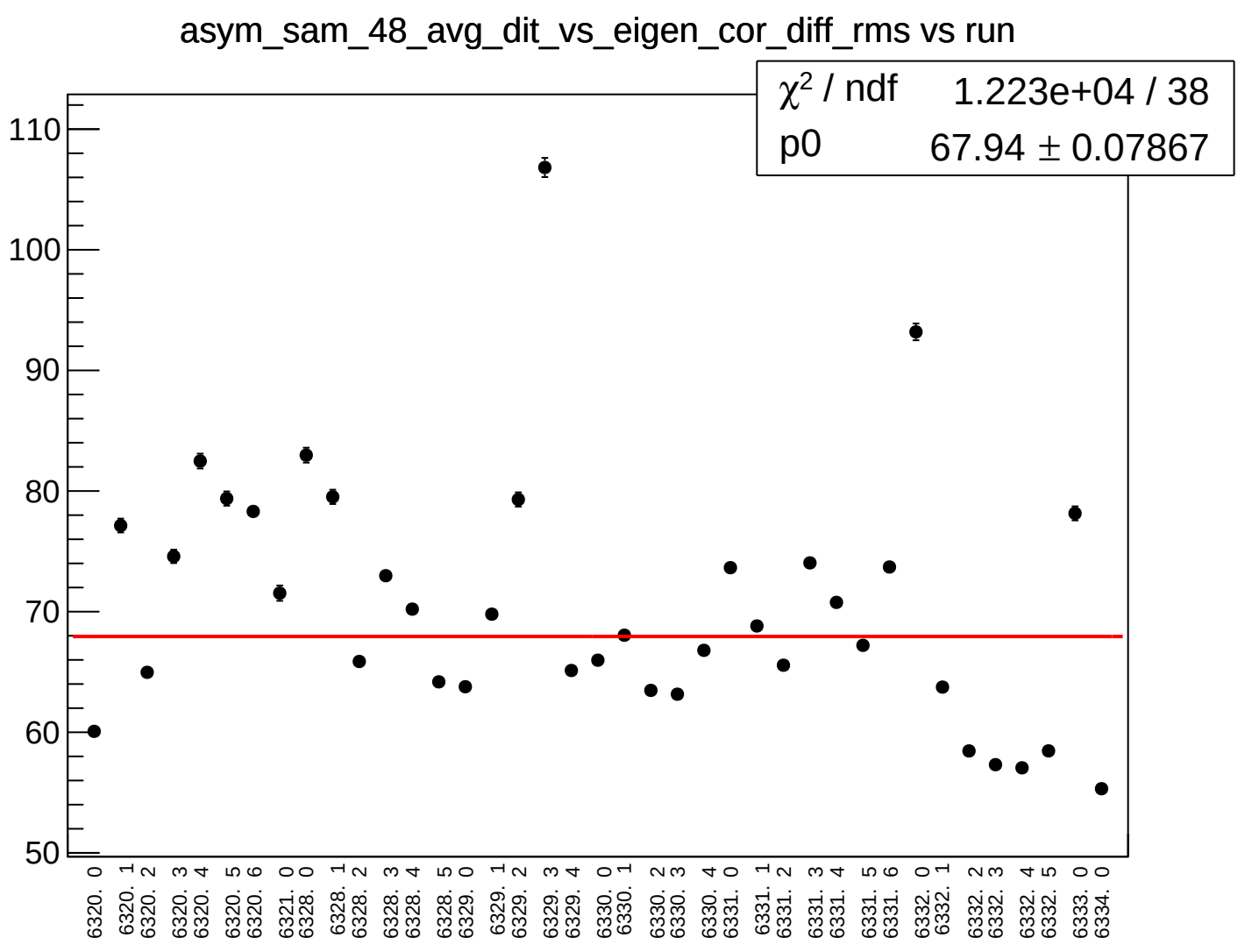

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.128e+05 / 38
p0 4.448e−11 ± 8.981e−14
0.1
0.08
0.06
0.04
0.02
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

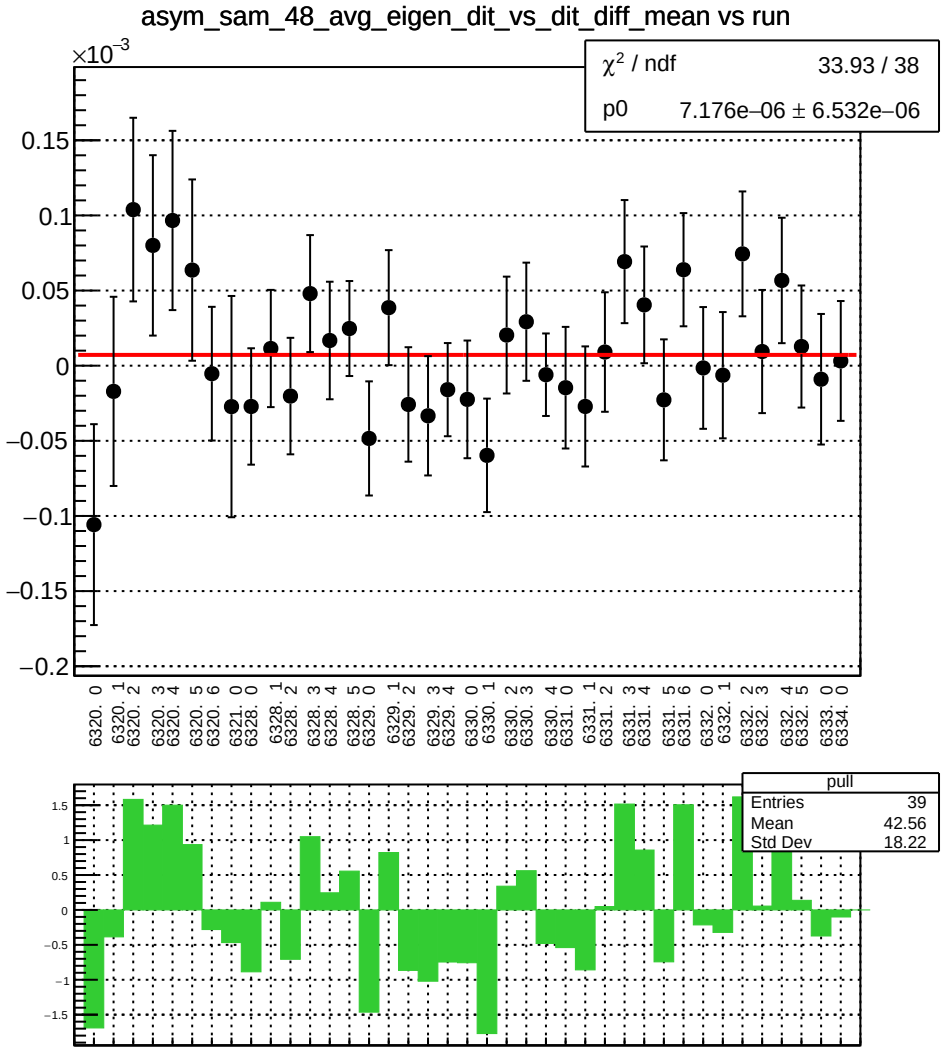

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.96 / 38
p0 −0.1524 ± 0.1113
pull
Entries 39
Mean 432.7
Std Dev 0

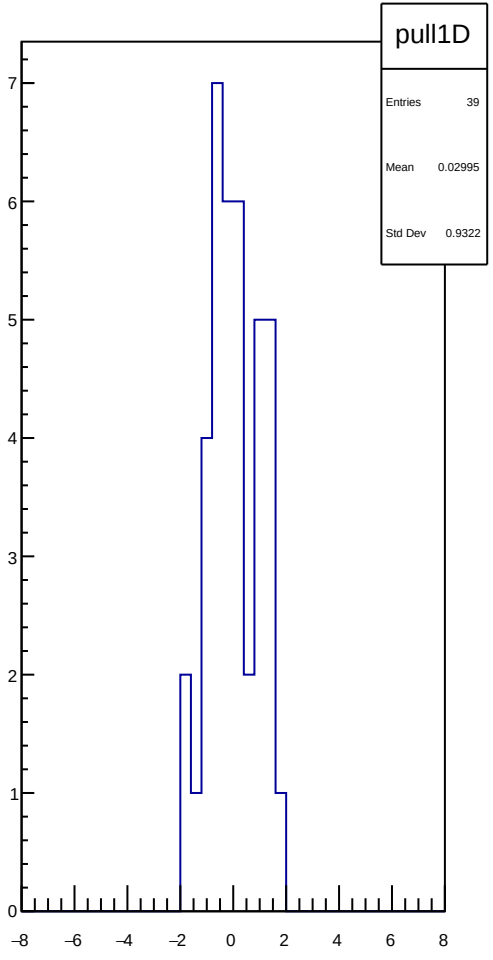

pull1D
Entries 39
Mean −0.001641
Std Dev 0.891

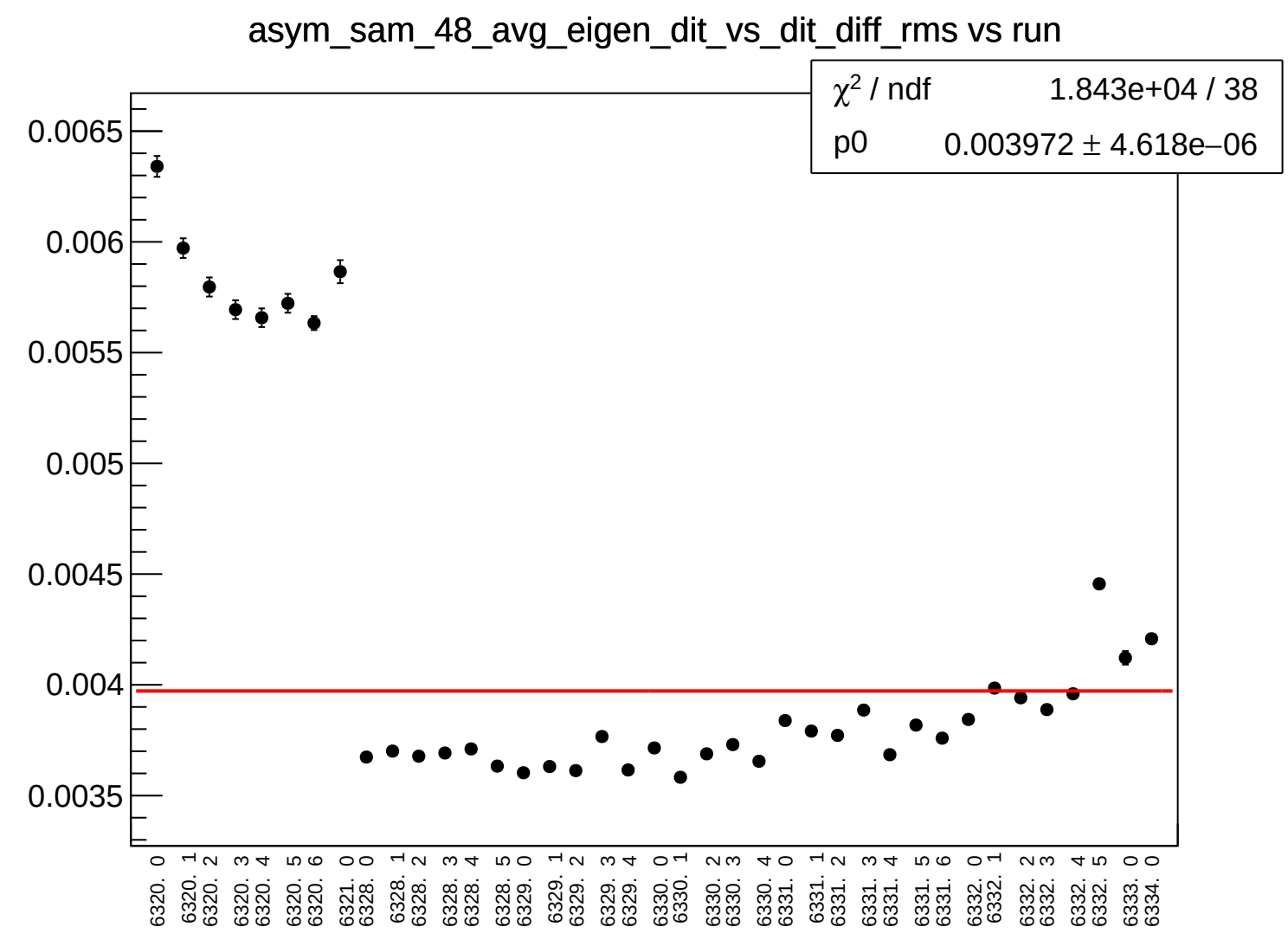

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.223e+04 / 38
p0 67.94 ± 0.07867
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

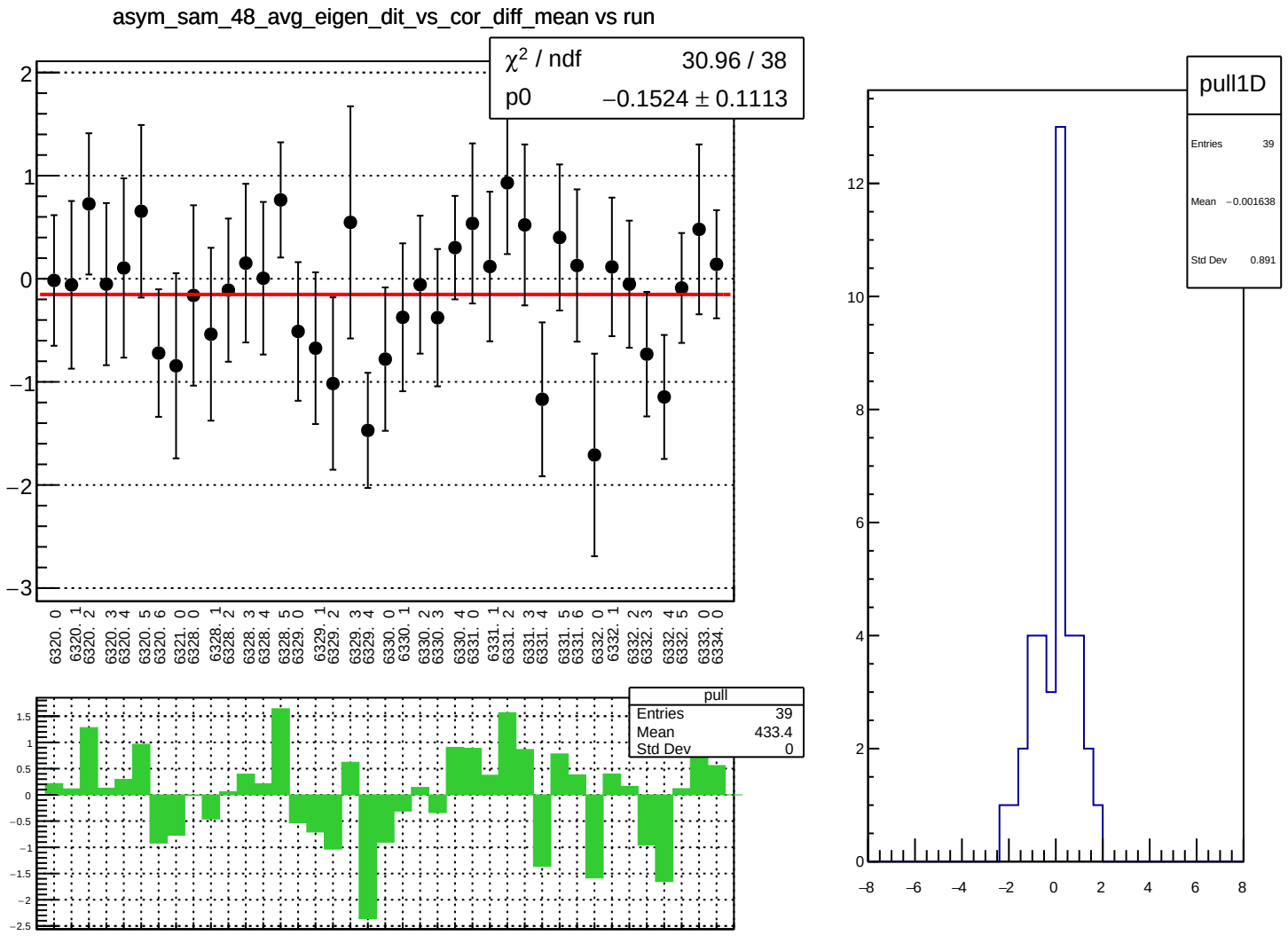

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.96 / 38
p0 −0.1524 ± 0.1113
pull
Entries 39
Mean 432.7
Std Dev 0
pull1D
Entries 39
Mean −0.001641
Std Dev 0.891

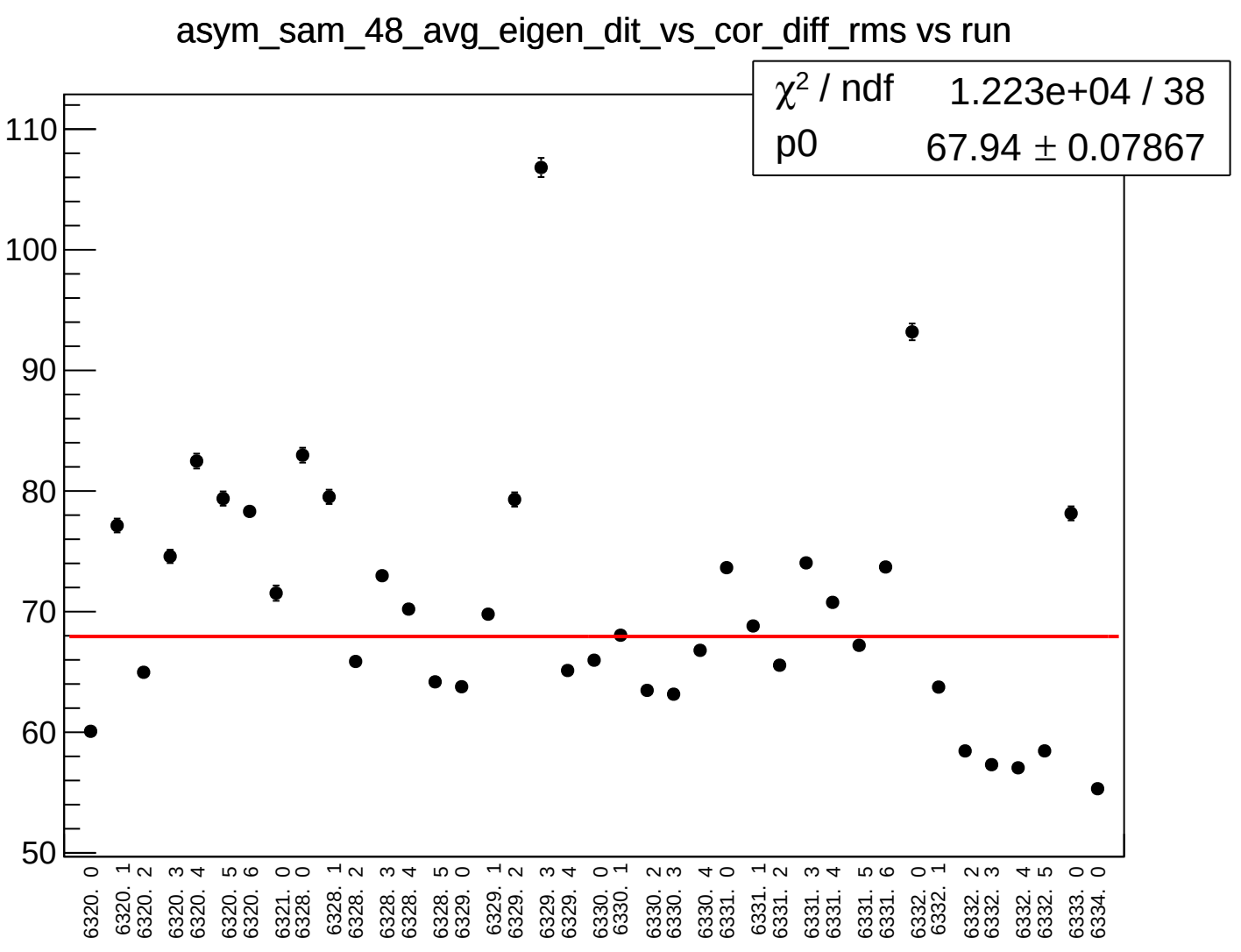

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 38
p0 67.94 ± 0.07867
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

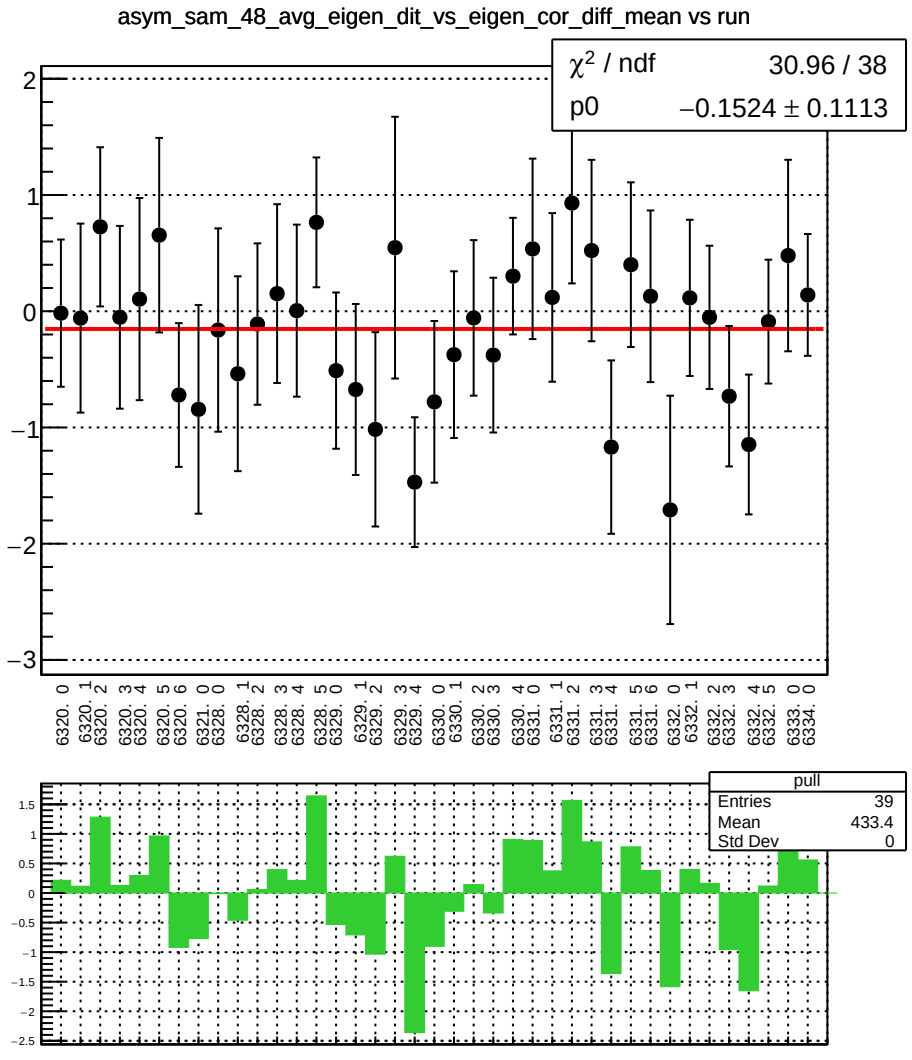

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.93 / 38
p0 7.176e−06 ± 6.532e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.56
Std Dev 18.22
1.5
1
0.5
0
−0.5
−1
−1.5

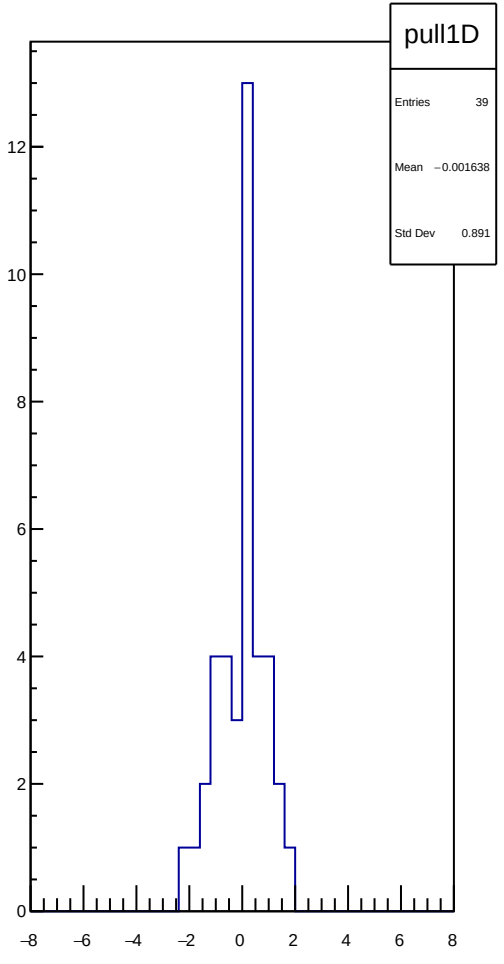

pull1D
Entries 39
Mean 0.02995
Std Dev 0.9322
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

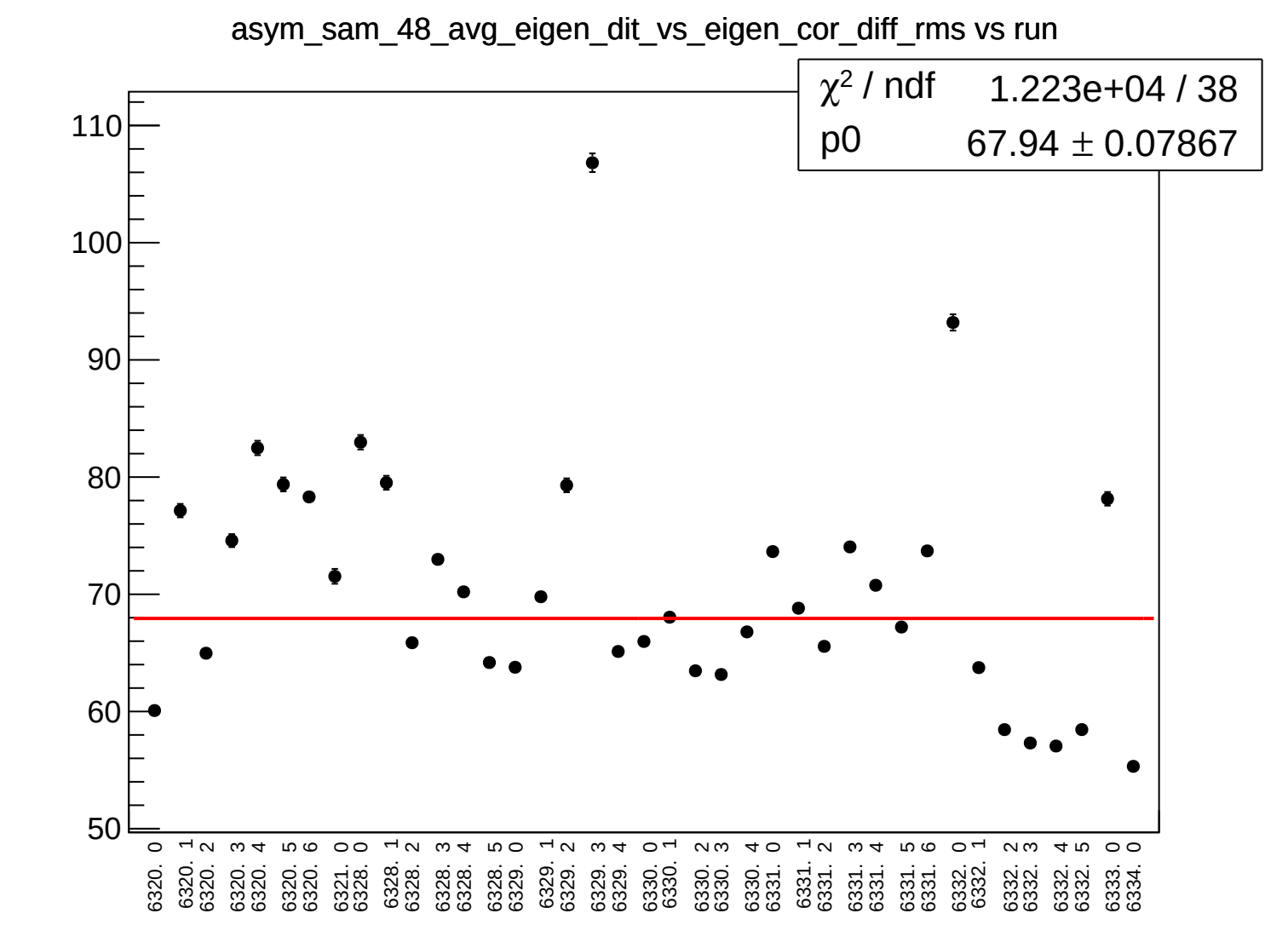

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.843e+04 / 38
p0 0.003972 ± 4.618e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

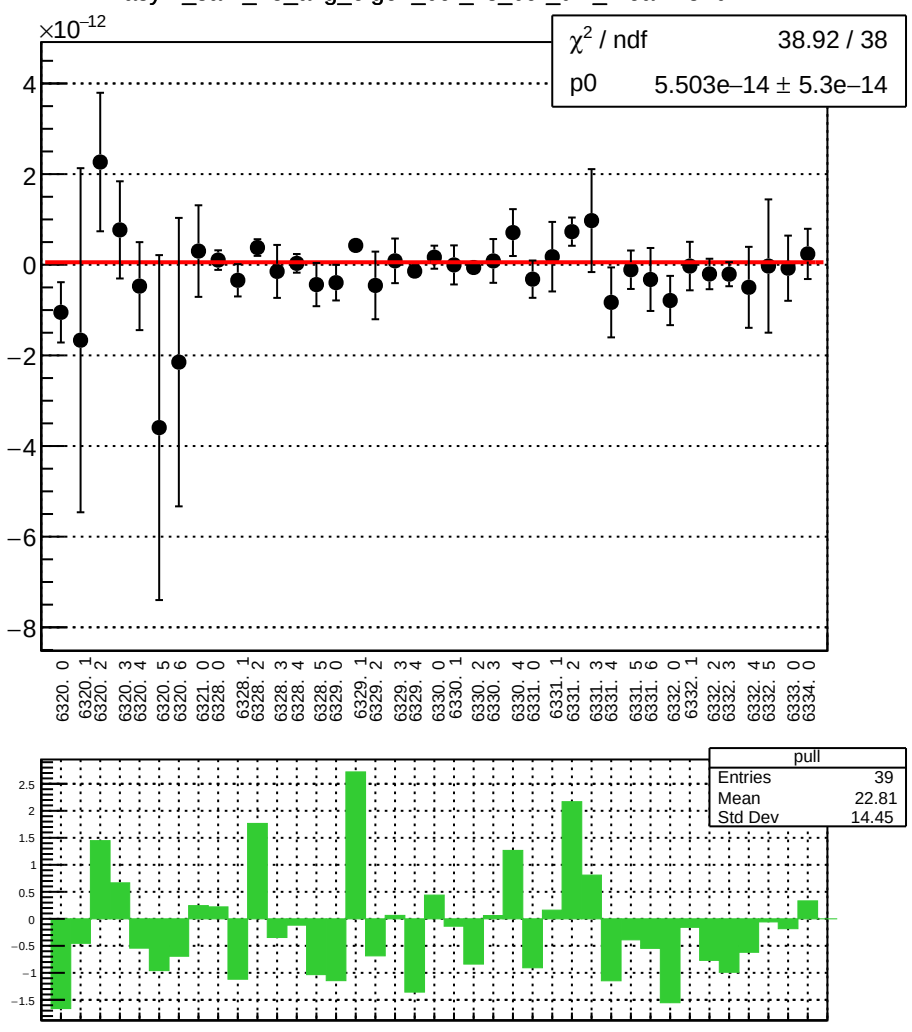

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.96 / 38
p0 −0.1524 ± 0.1113
pull
Entries 39
Mean 433.4
Std Dev 0
pull1D
Entries 39
Mean −0.001638
Std Dev 0.891

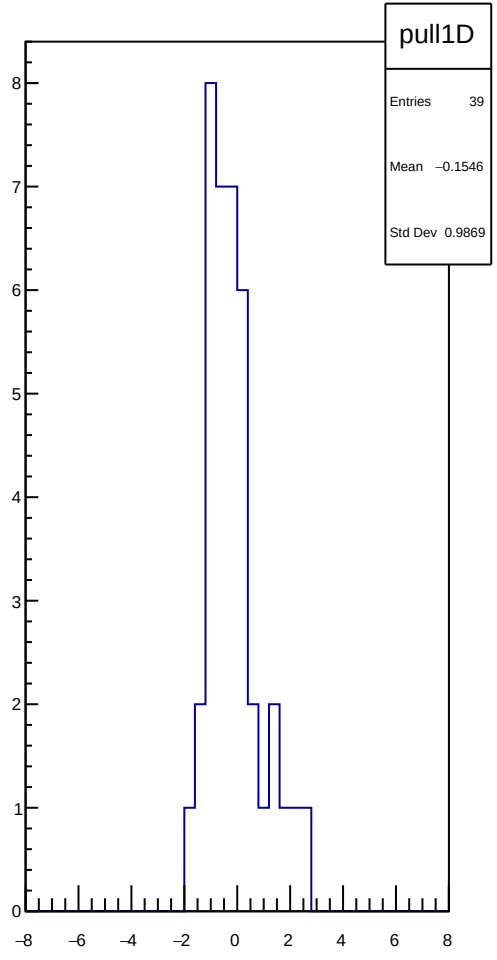

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 38
p0 67.94 ± 0.07867
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

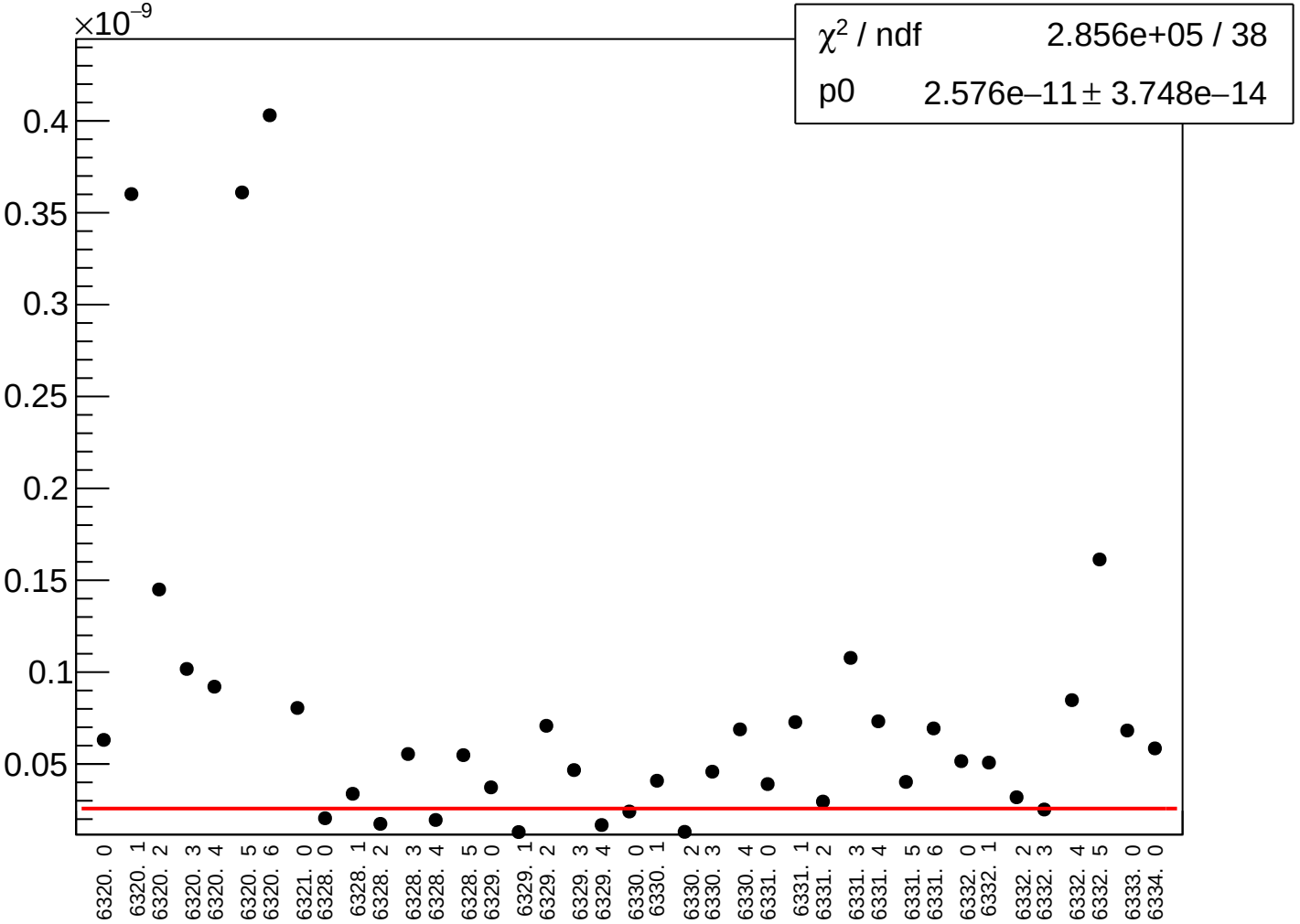

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.96 / 38
p0 −0.1524 ± 0.1113
pull
Entries 39
Mean 433.4
Std Dev 0

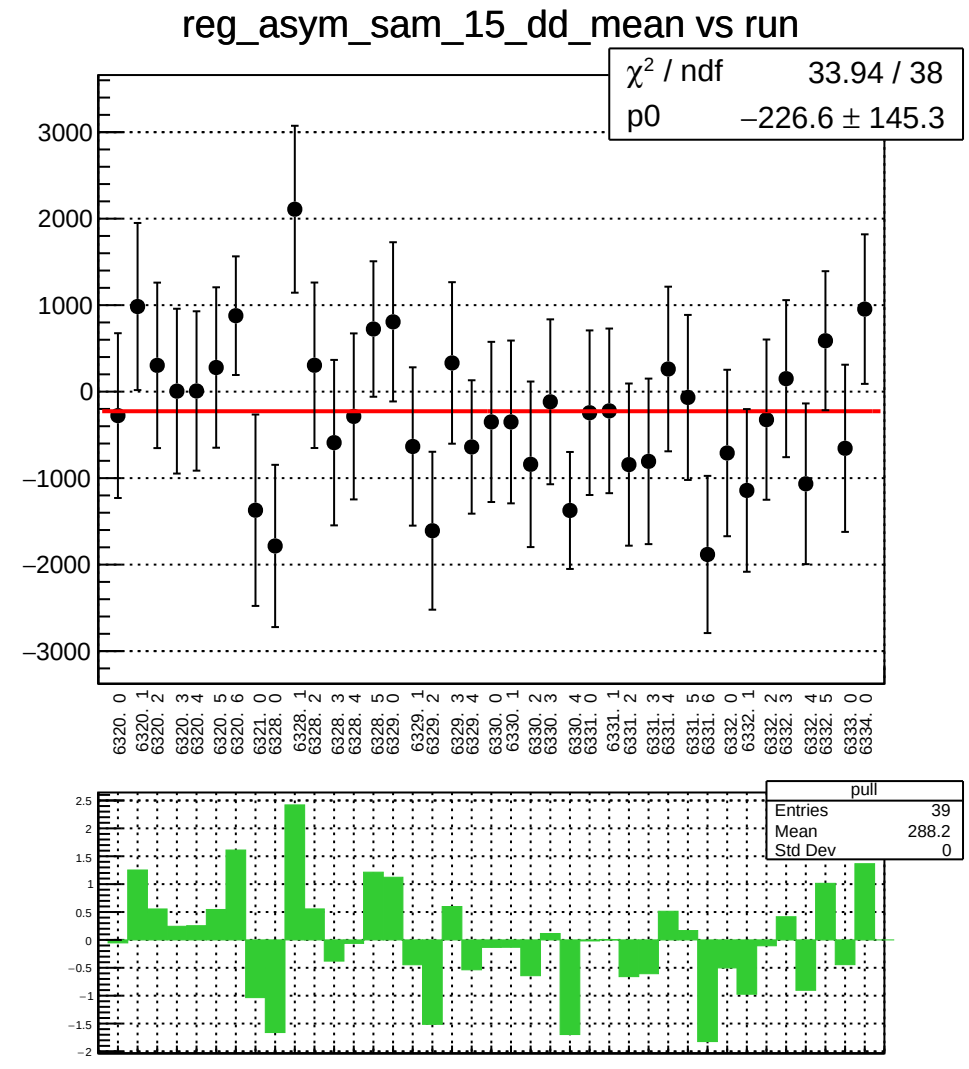

pull1D
Entries 39
Mean −0.001638
Std Dev 0.891

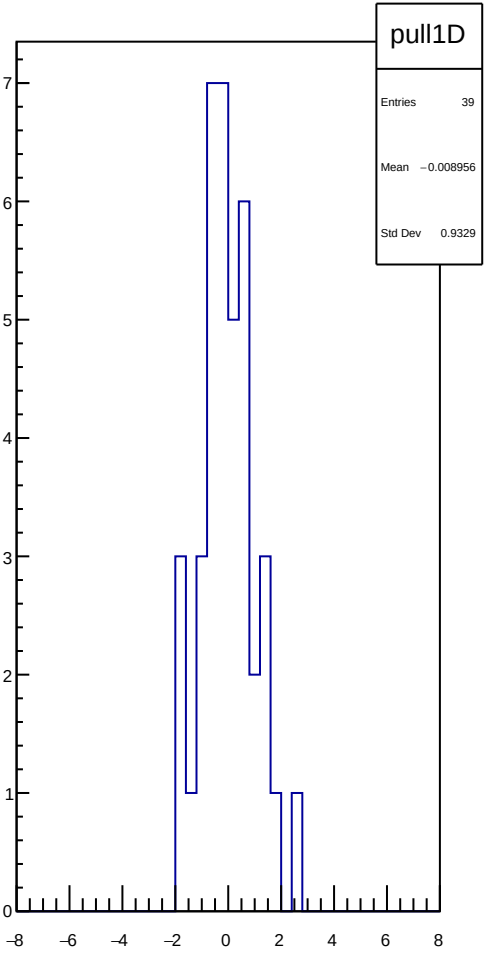

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 38
p0 67.94 ± 0.07867
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

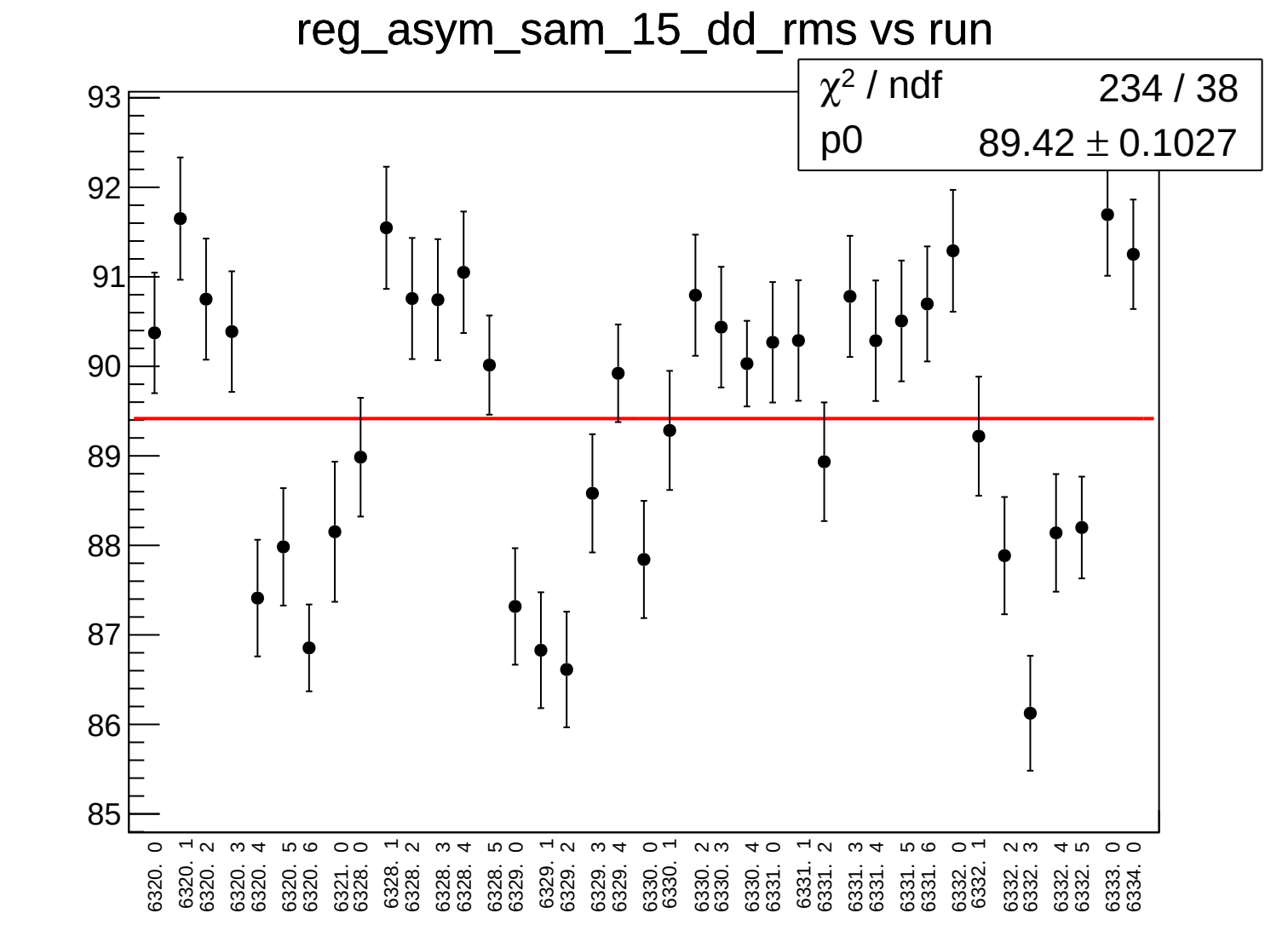

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.92 / 38
p0 5.503e−14 ± 5.3e−14
pull
Entries 39
Mean 22.81
Std Dev 14.45

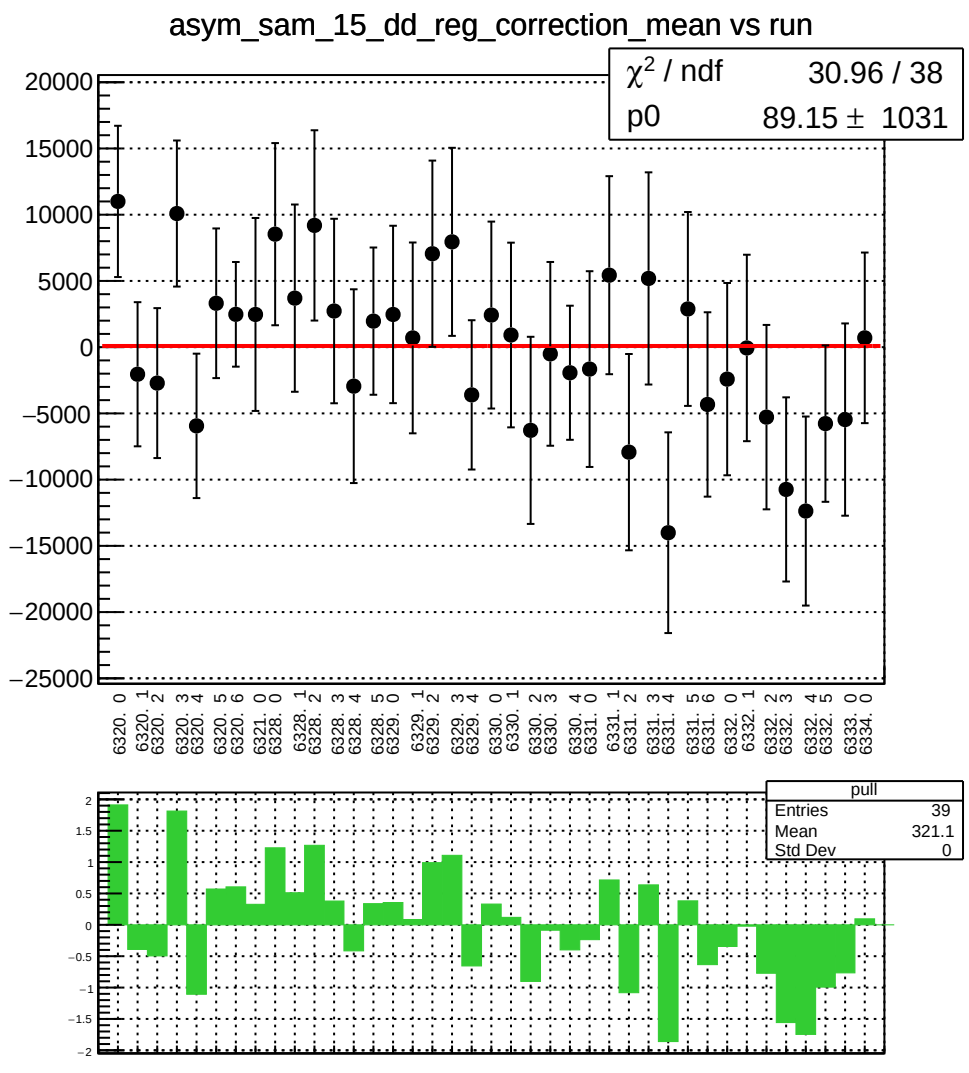

pull1D
Entries 39
Mean −0.1546
Std Dev 0.9869

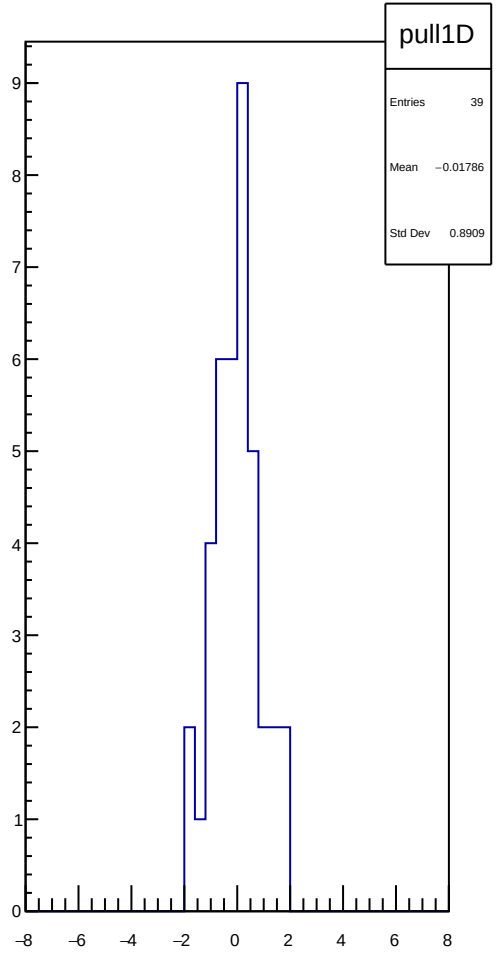

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.856e+05 / 38
p0 2.576e−11 ± 3.748e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

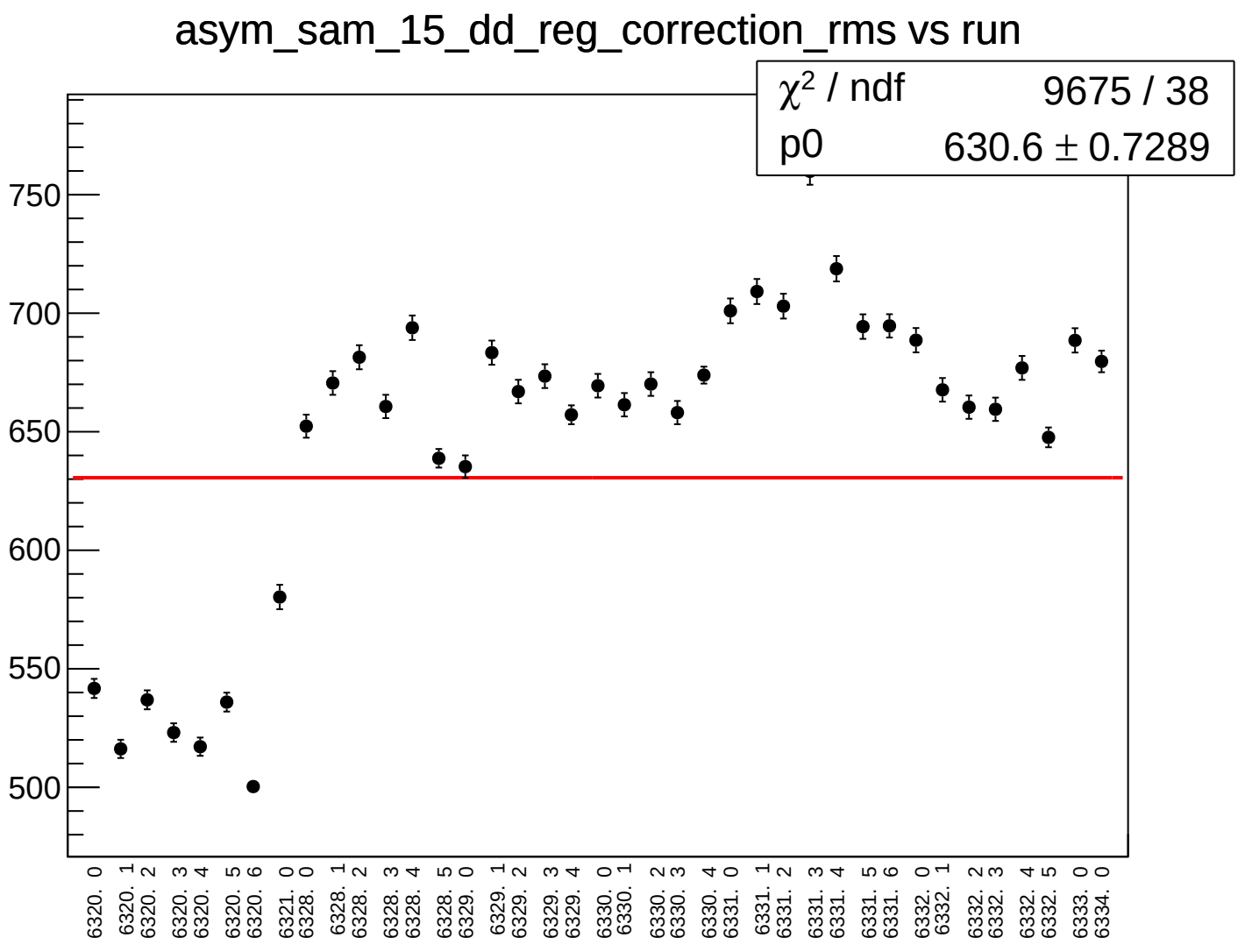

reg_asym_sam_15_dd_mean vs run
χ² / ndf 33.94 / 38
p0 −226.6 ± 145.3
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 288.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

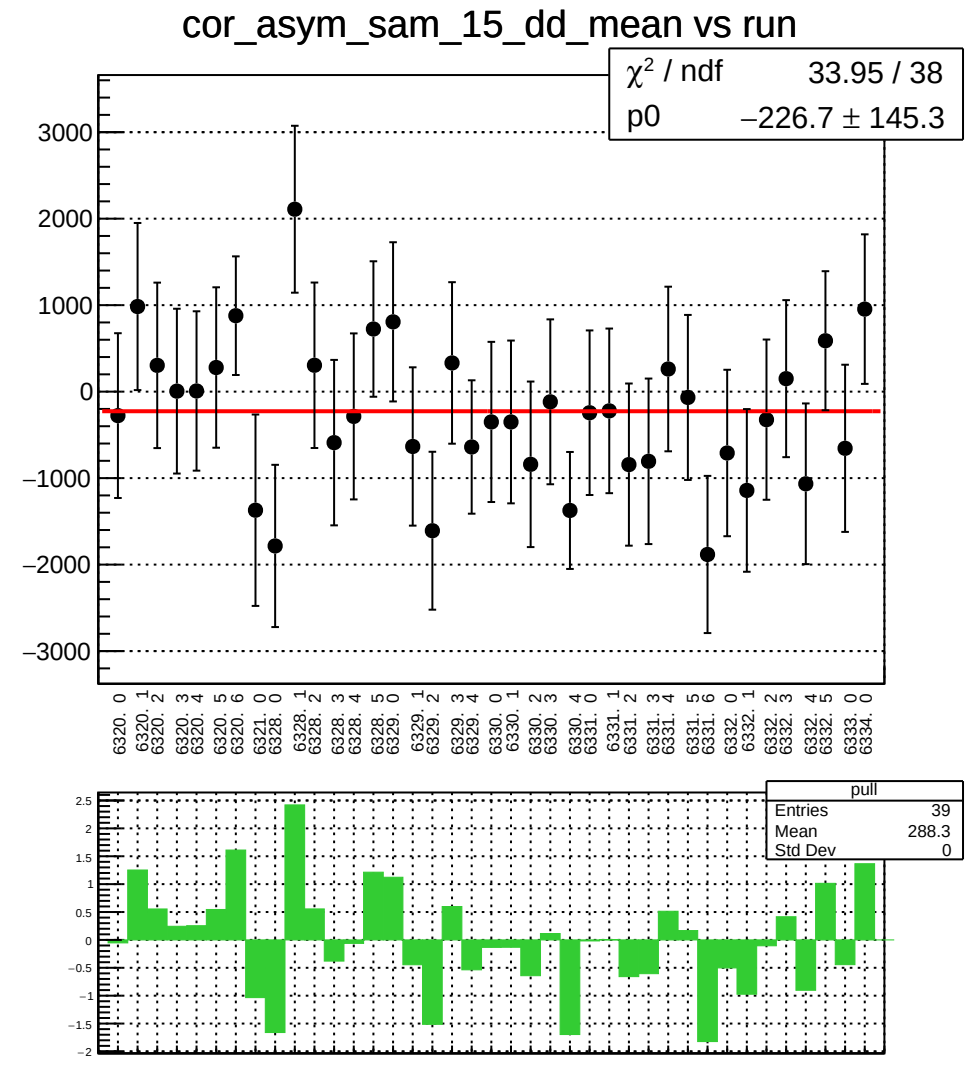

pull1D
Entries 39
Mean −0.008956
Std Dev 0.9329
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

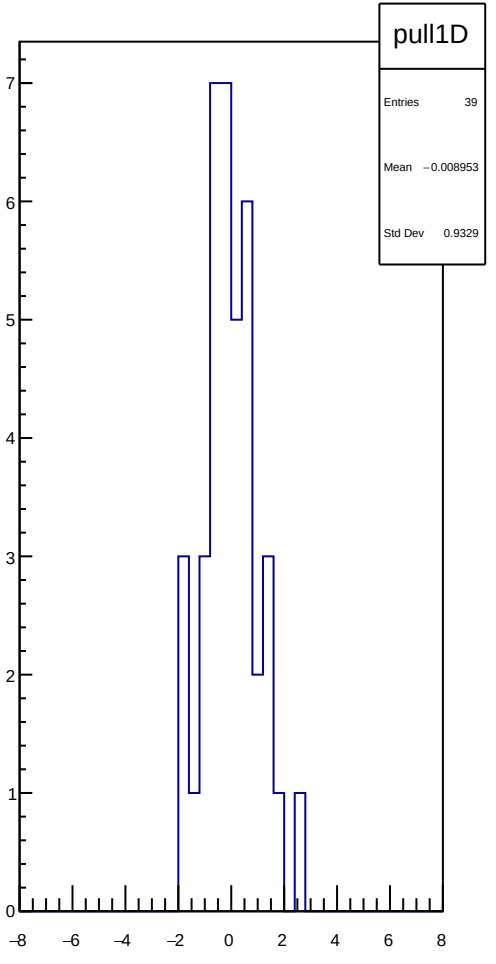

reg_asym_sam_15_dd_rms vs run
χ² / ndf 234 / 38
p0 89.42 ± 0.1027
93
92
91
90
89
88
87
86
85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

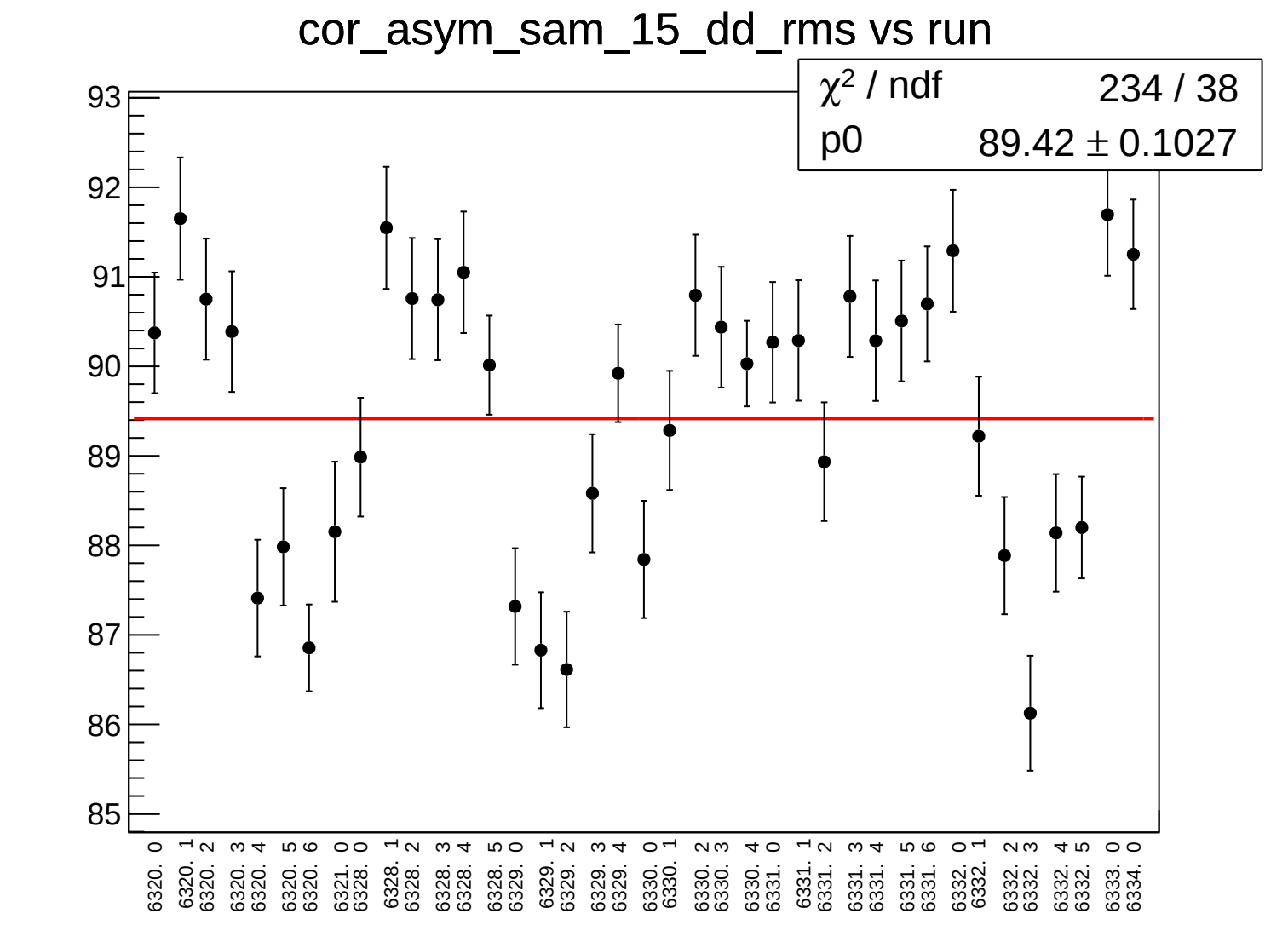

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 30.96 / 38
p0 89.15 ± 1031
pull
Entries 39
Mean 321.1
Std Dev 0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

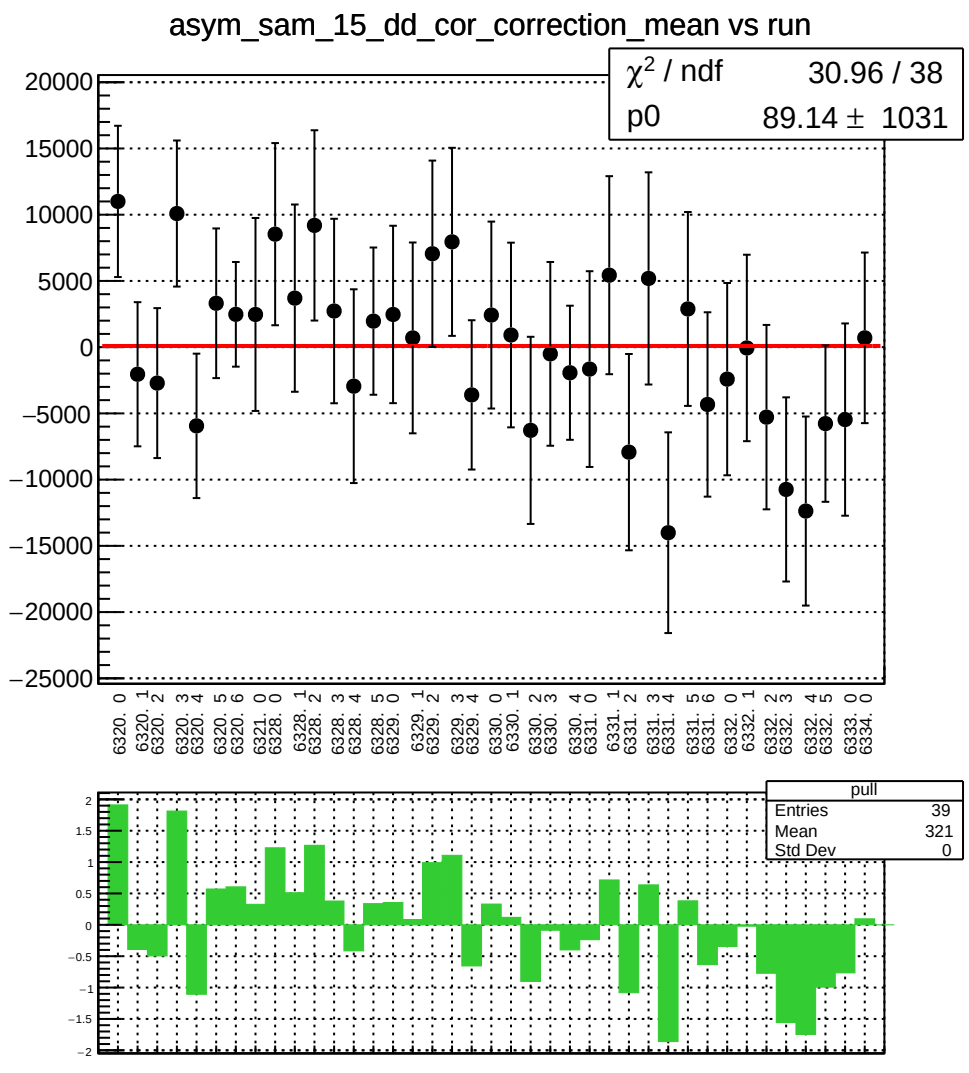

pull1D
Entries 39
Mean −0.01786
Std Dev 0.8909

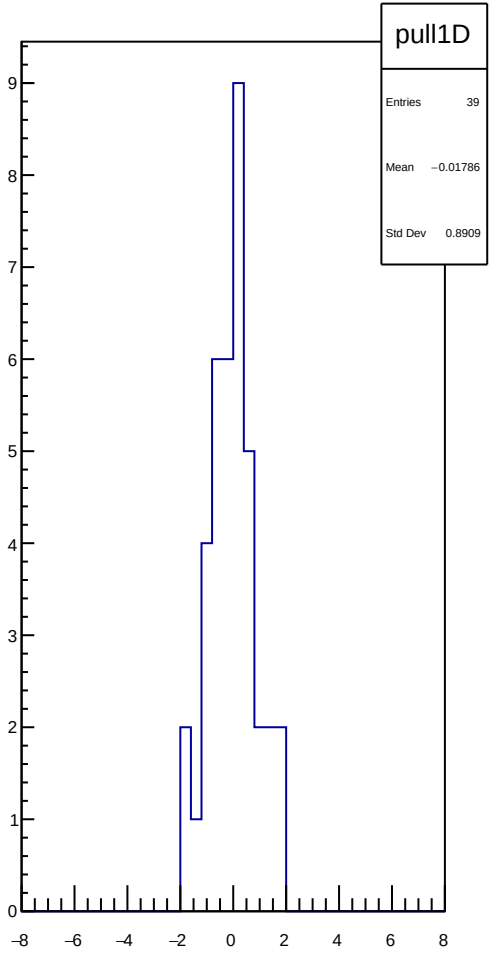

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 9675 / 38
p0 630.6 ± 0.7289
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

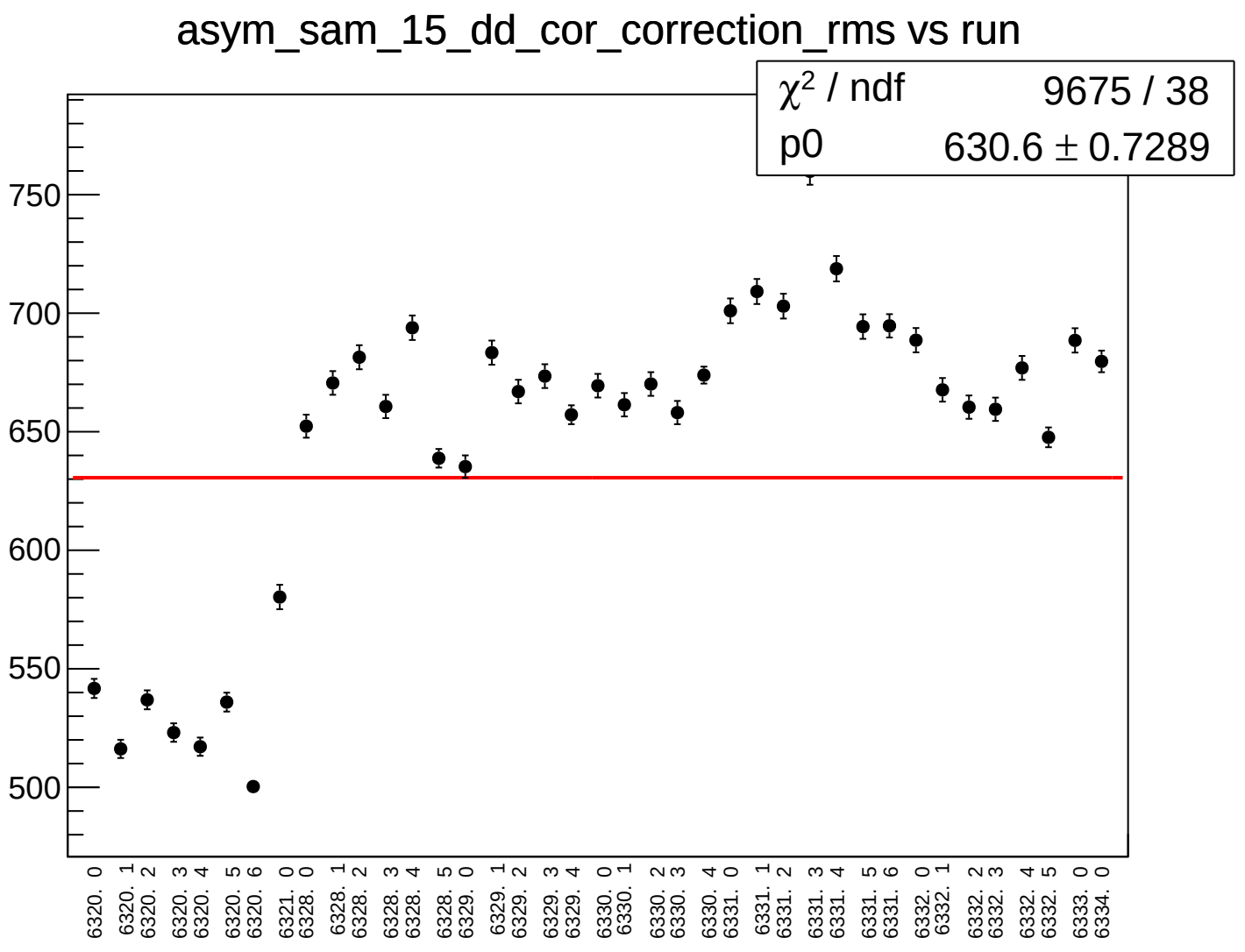

cor_asym_sam_15_dd_mean vs run
χ² / ndf 33.95 / 38
p0 −226.7 ± 145.3
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 288.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

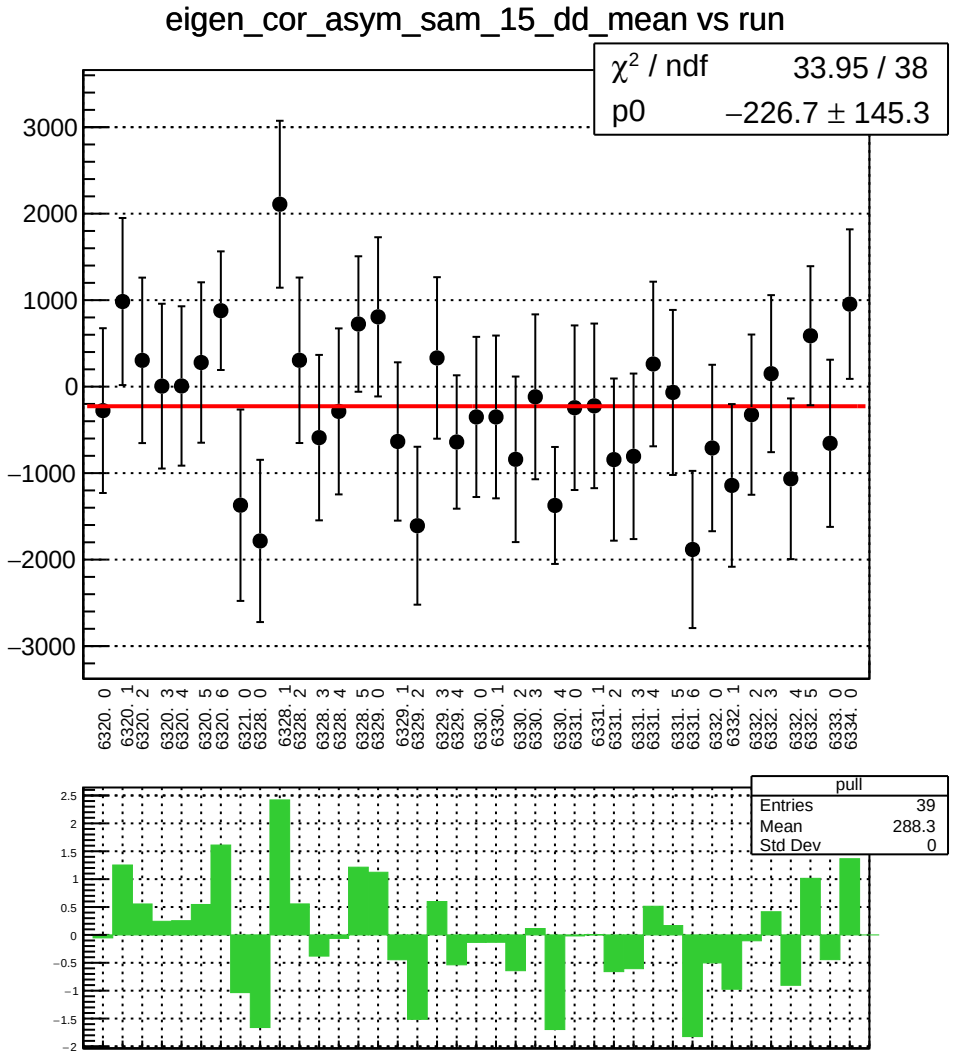

pull1D
Entries 39
Mean −0.008953
Std Dev 0.9329
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

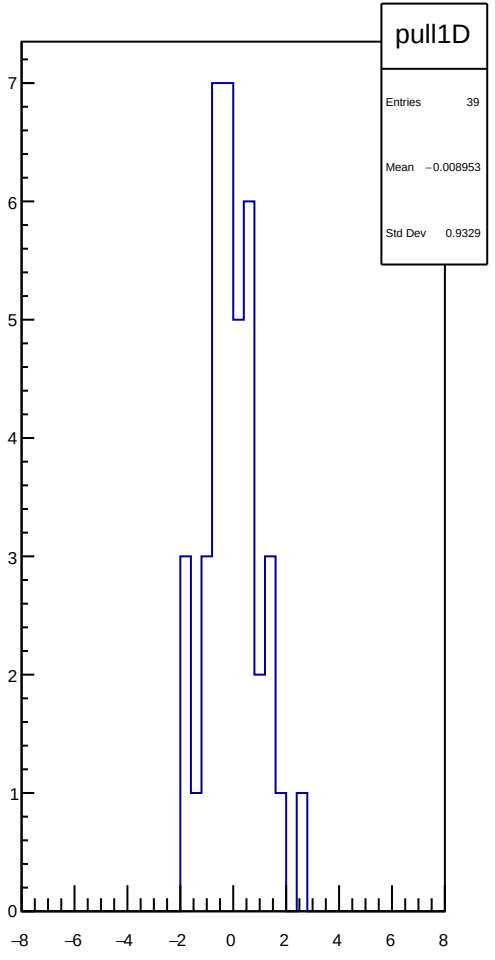

cor_asym_sam_15_dd_rms vs run
χ² / ndf 234 / 38
p0 89.42 ± 0.1027
93
92
91
90
89
88
87
86
85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

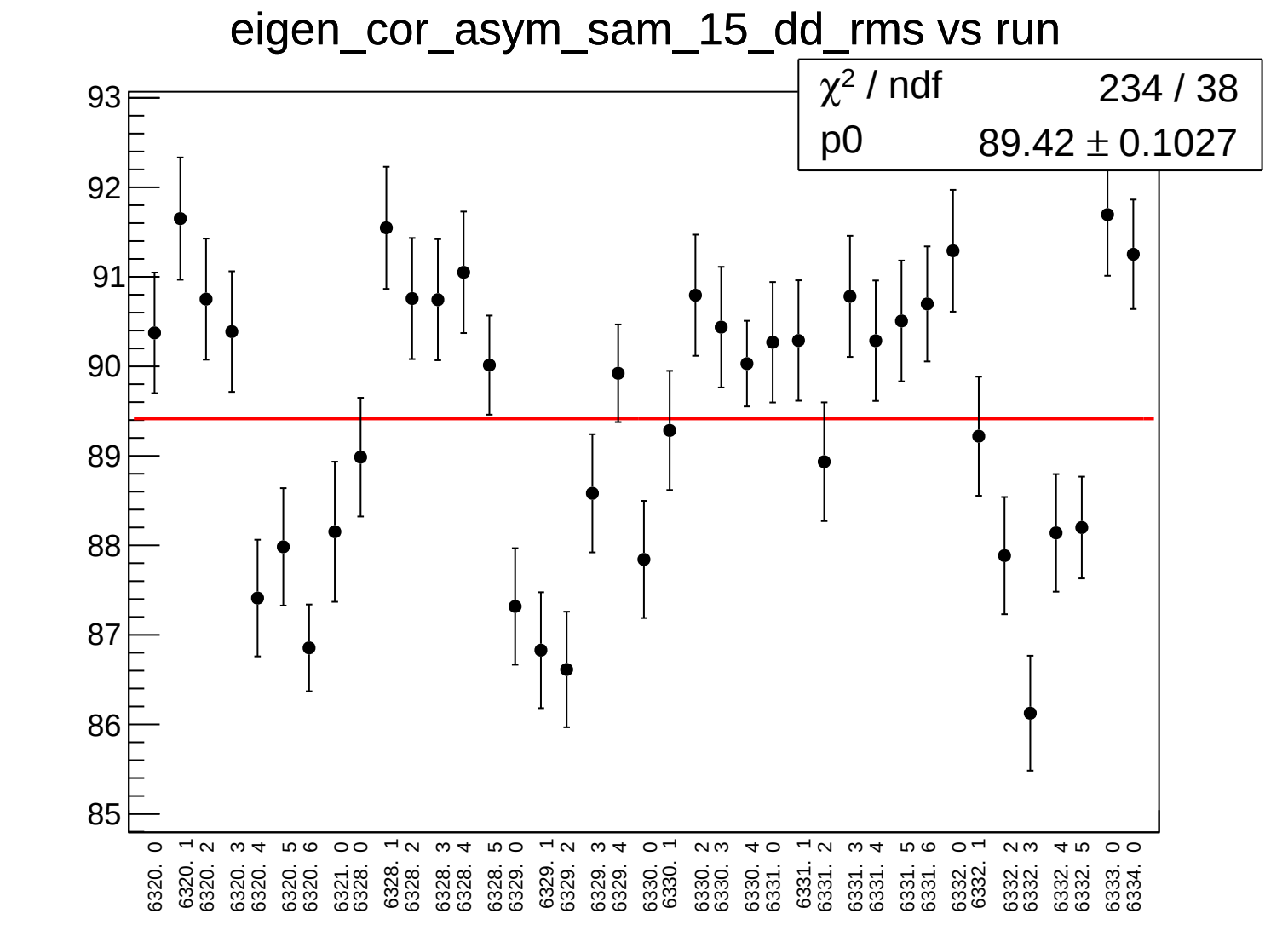

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 30.96 / 38
p0 89.14 ± 1031
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 321
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

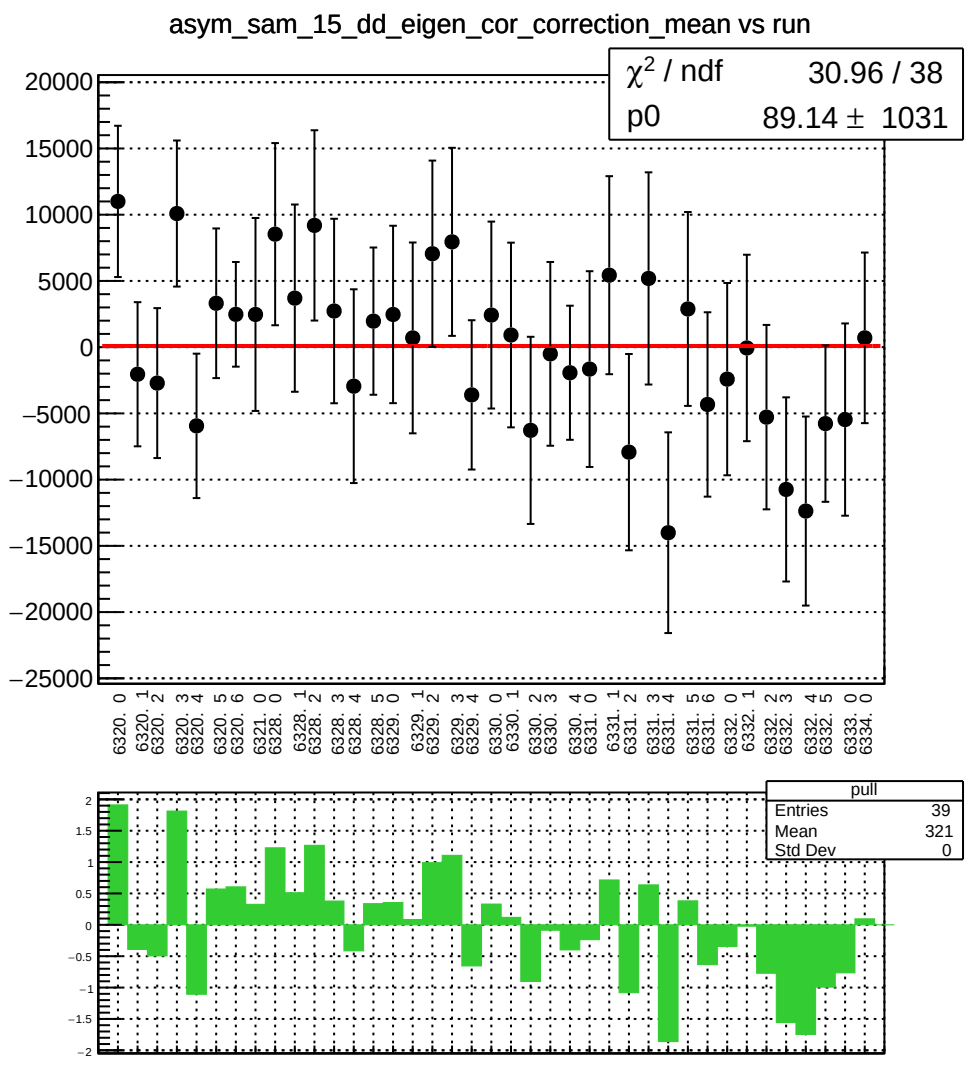

pull1D
Entries 39
Mean −0.01786
Std Dev 0.8909
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

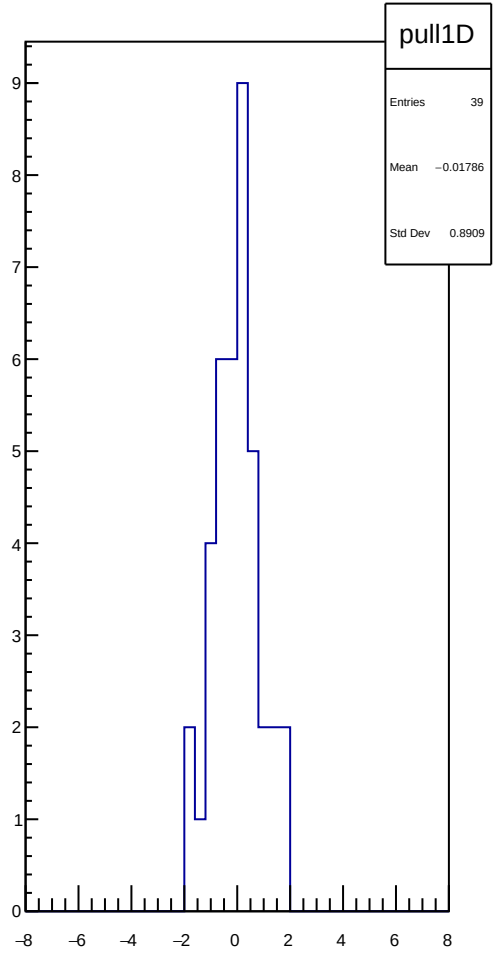

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 9675 / 38
p0 630.6 ± 0.7289
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

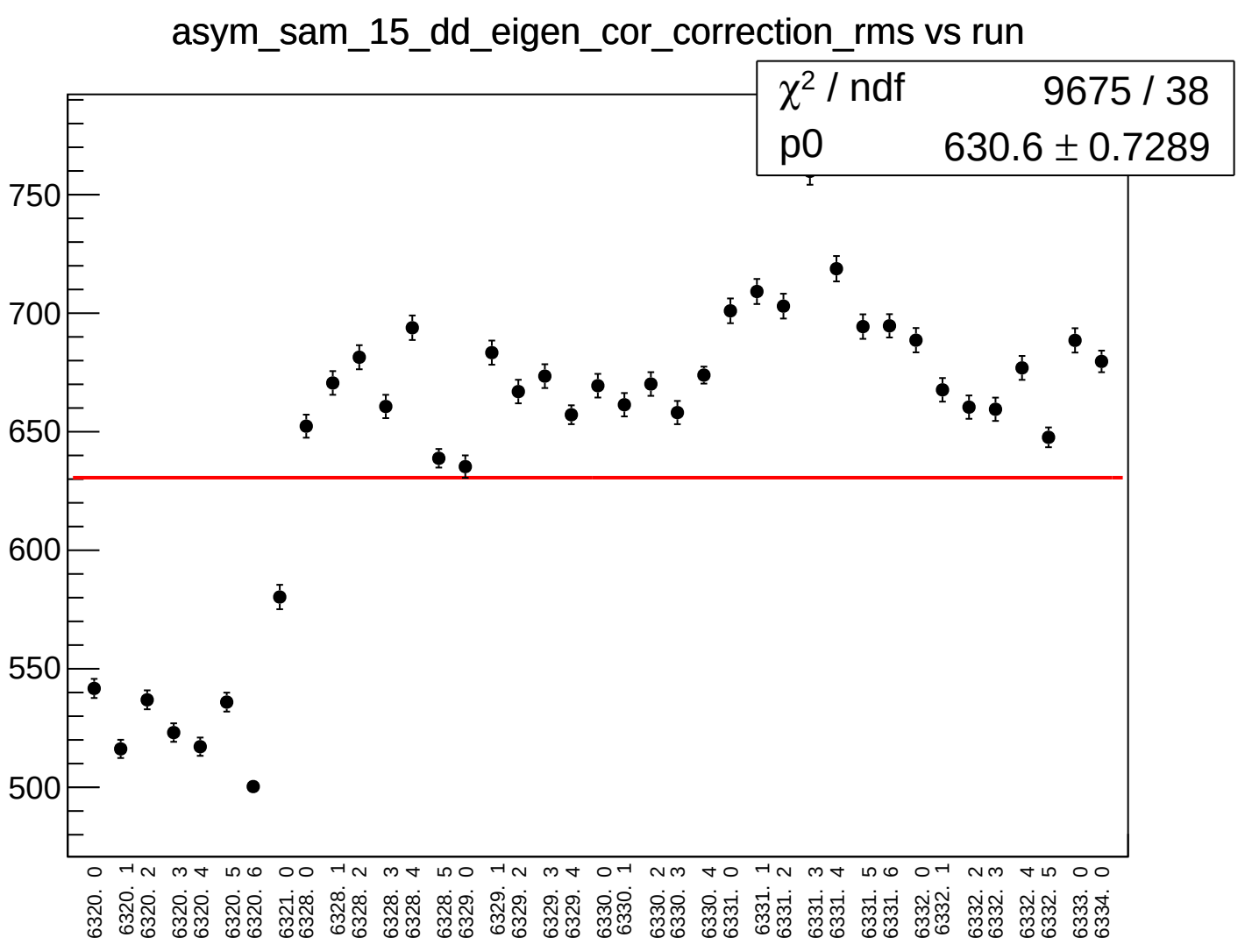

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 33.95 / 38
p0 −226.7 ± 145.3
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 288.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

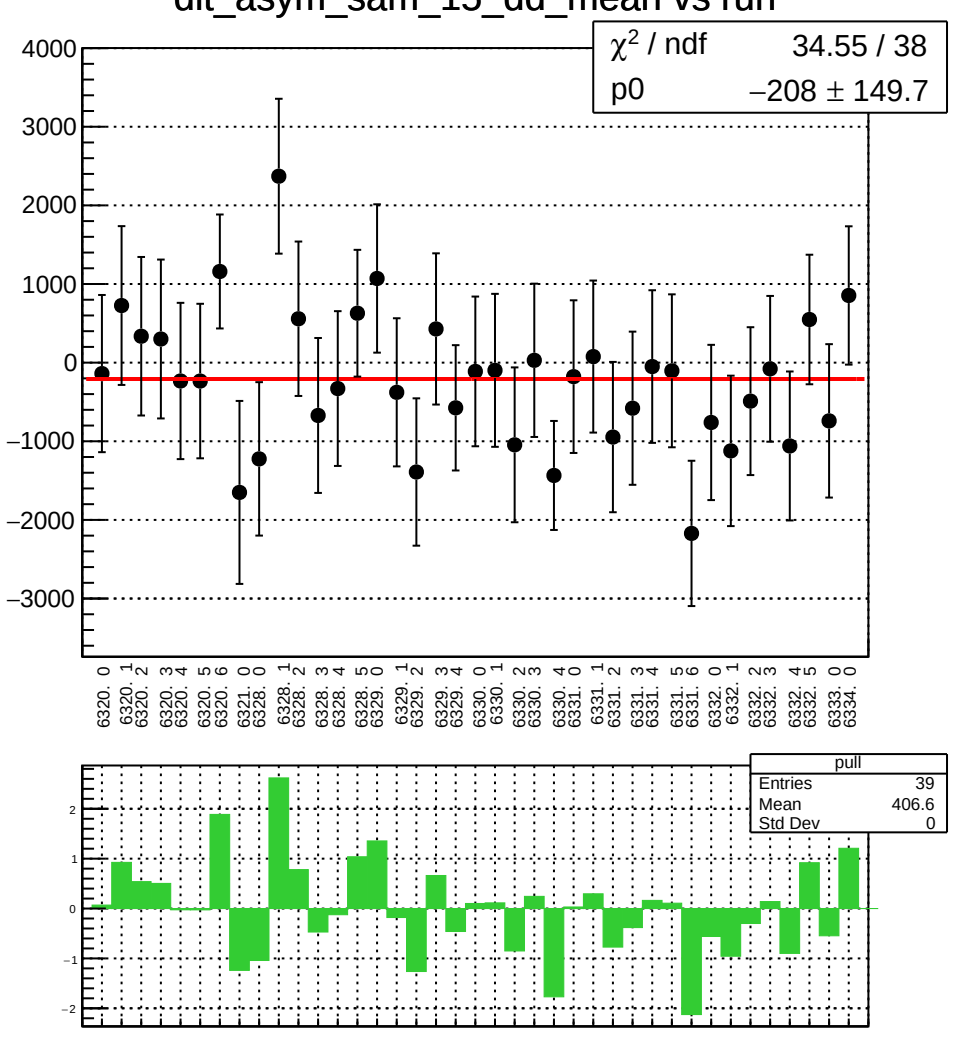

pull1D
Entries 39
Mean −0.008953
Std Dev 0.9329
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

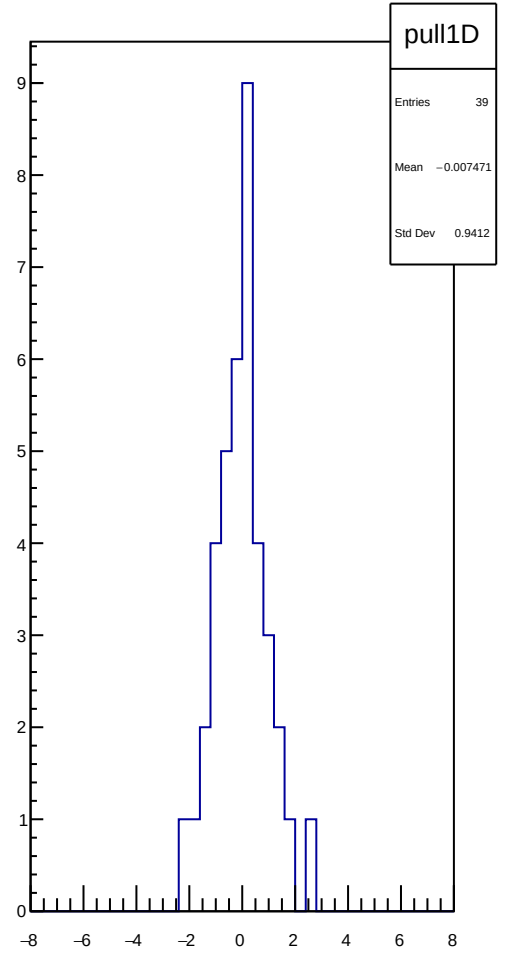

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 234 / 38
p0 89.42 ± 0.1027
93
92
91
90
89
88
87
86
85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

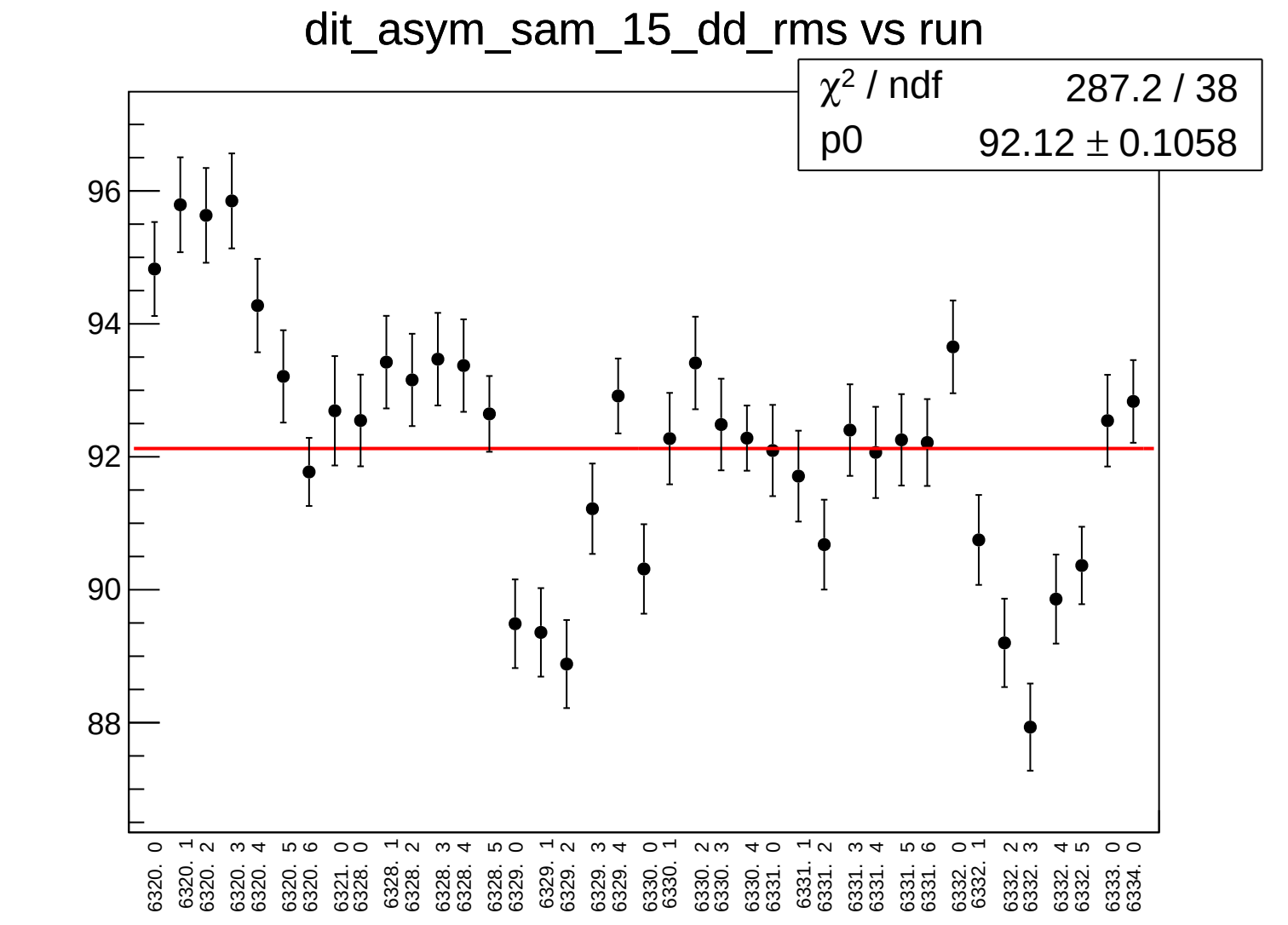

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.96 / 38
p0 89.14 ± 1031
pull
Entries 39
Mean 321
Std Dev 0

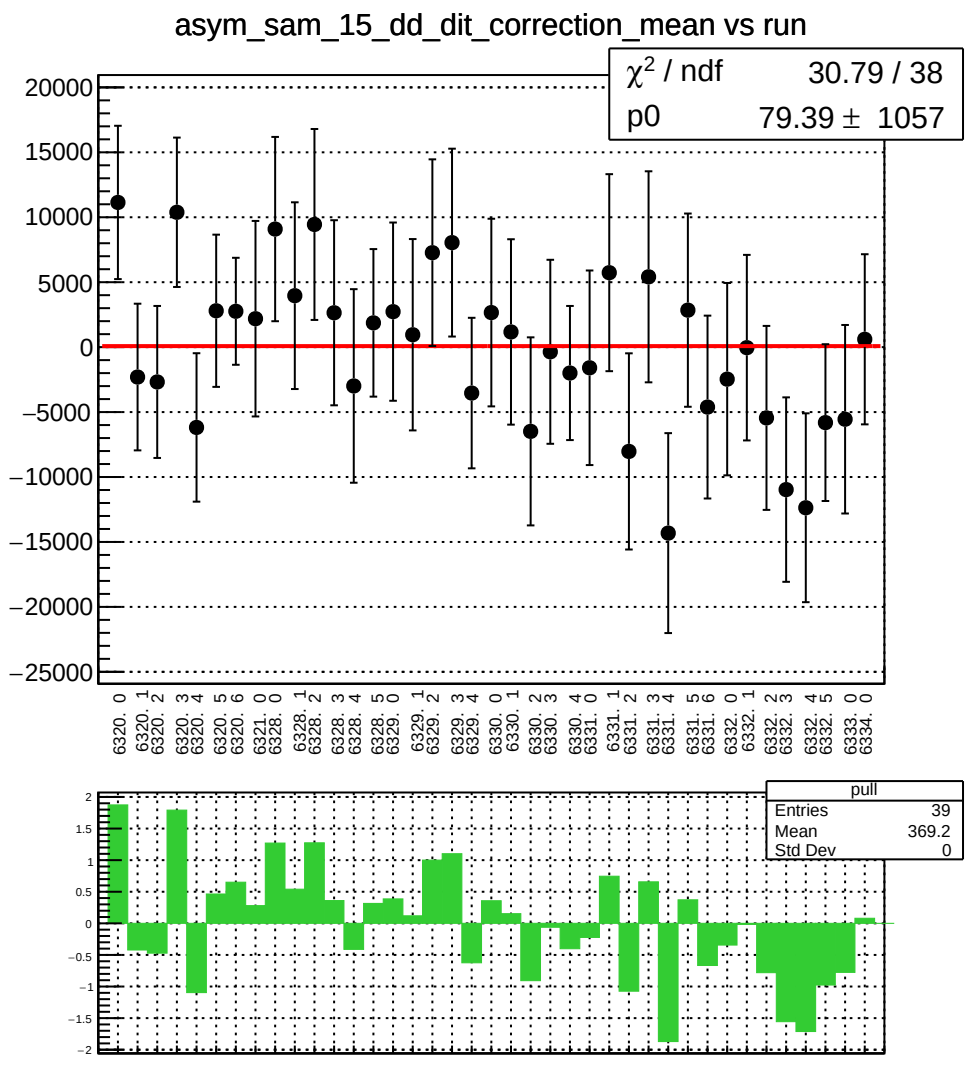

pull1D
Entries 39
Mean −0.01786
Std Dev 0.8909

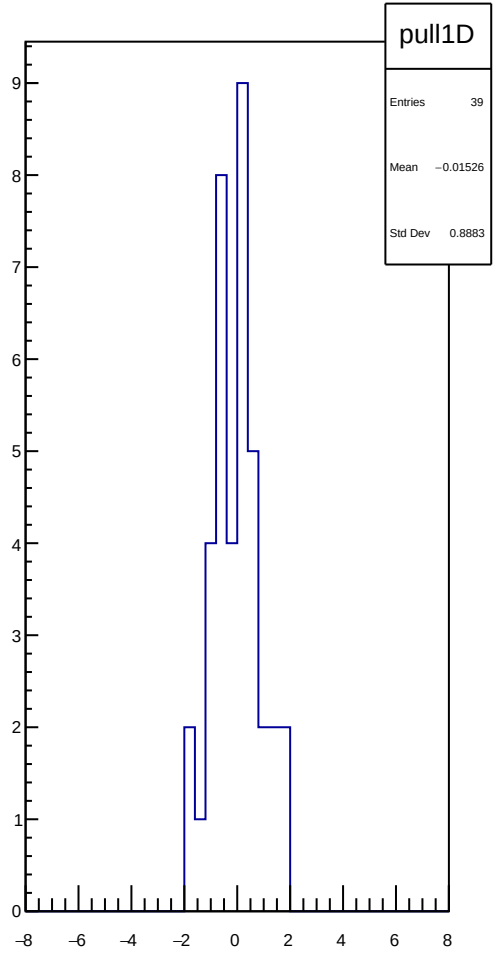

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 9675 / 38
p0 630.6 ± 0.7289
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

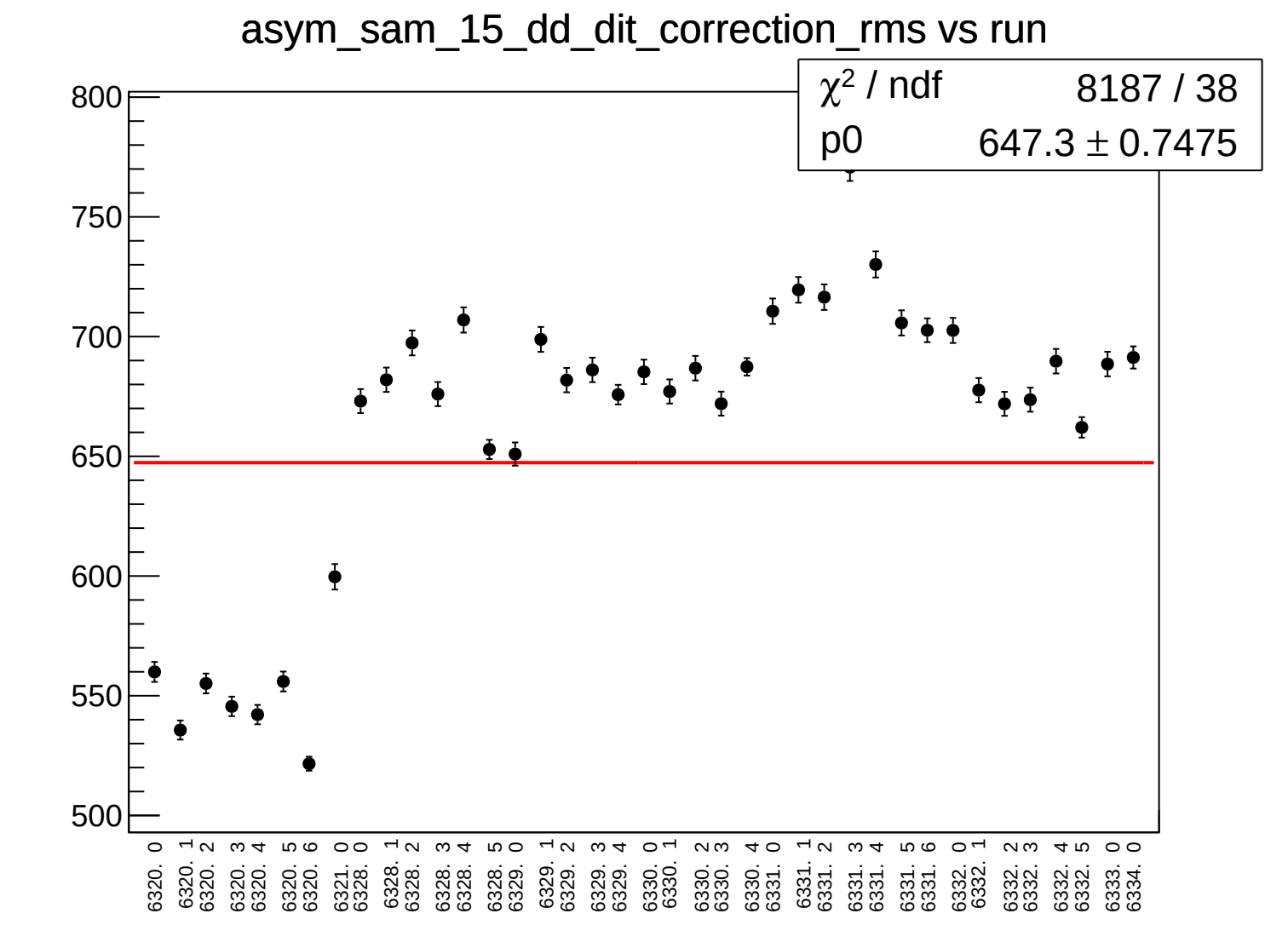

dit_asym_sam_15_dd_mean vs run
χ² / ndf 34.55 / 38
p0 −208 ± 149.7
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 406.6
Std Dev 0
2
1
0
−1
−2

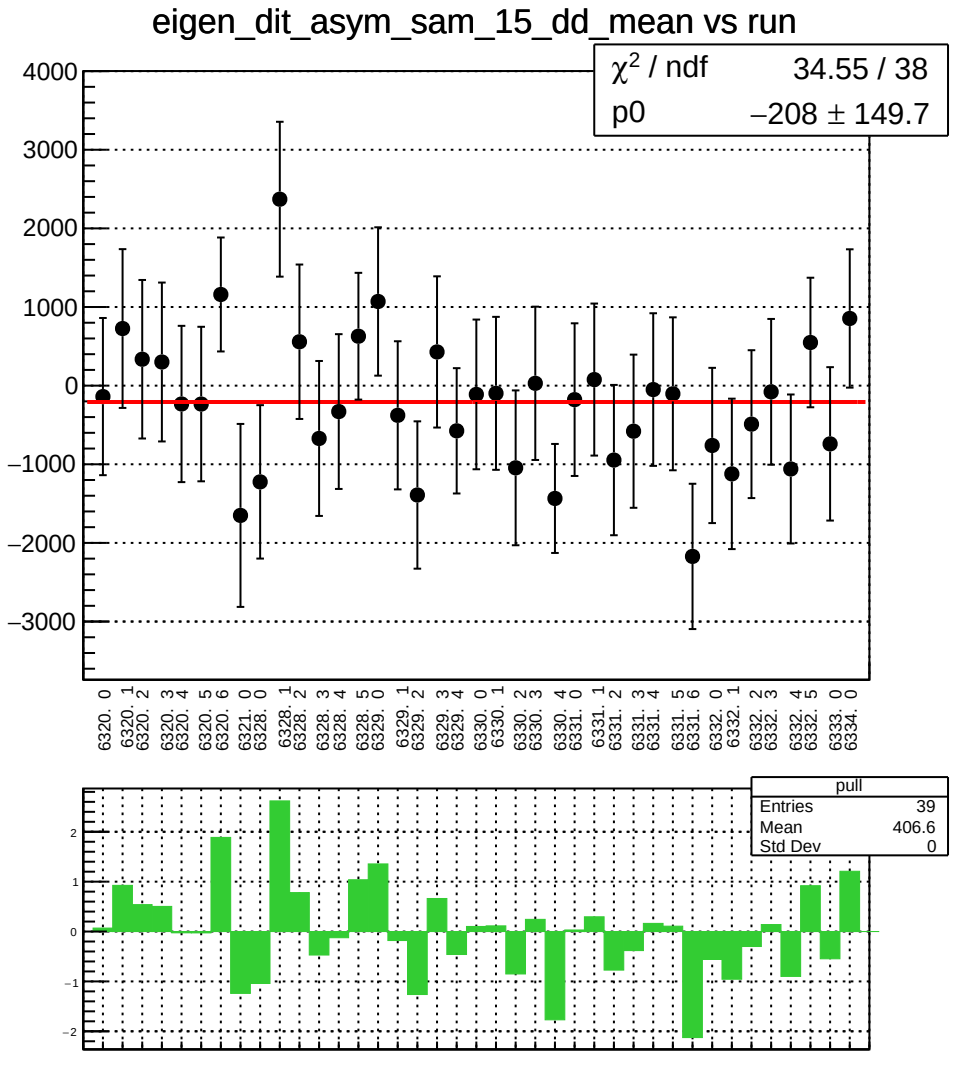

pull1D
Entries 39
Mean −0.007471
Std Dev 0.9412
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

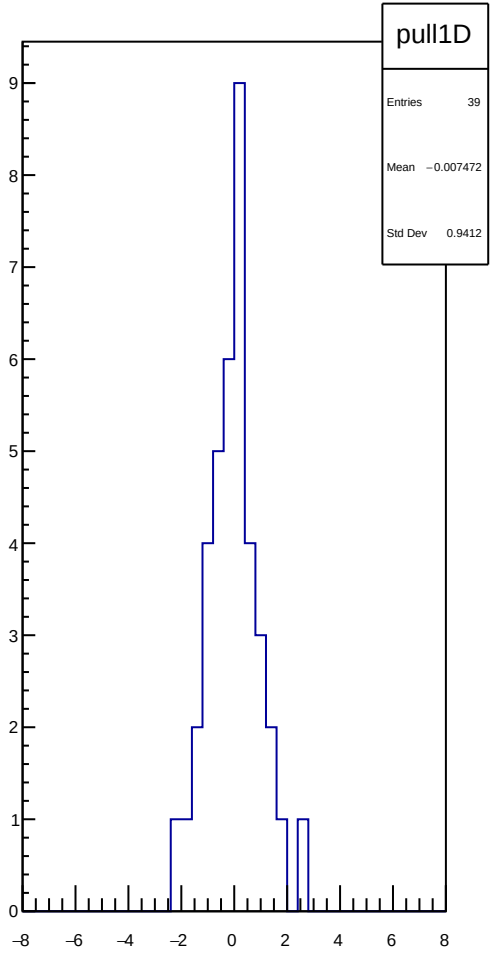

dit_asym_sam_15_dd_rms vs run
χ² / ndf 287.2 / 38
p0 92.12 ± 0.1058
96
94
92
90
88
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

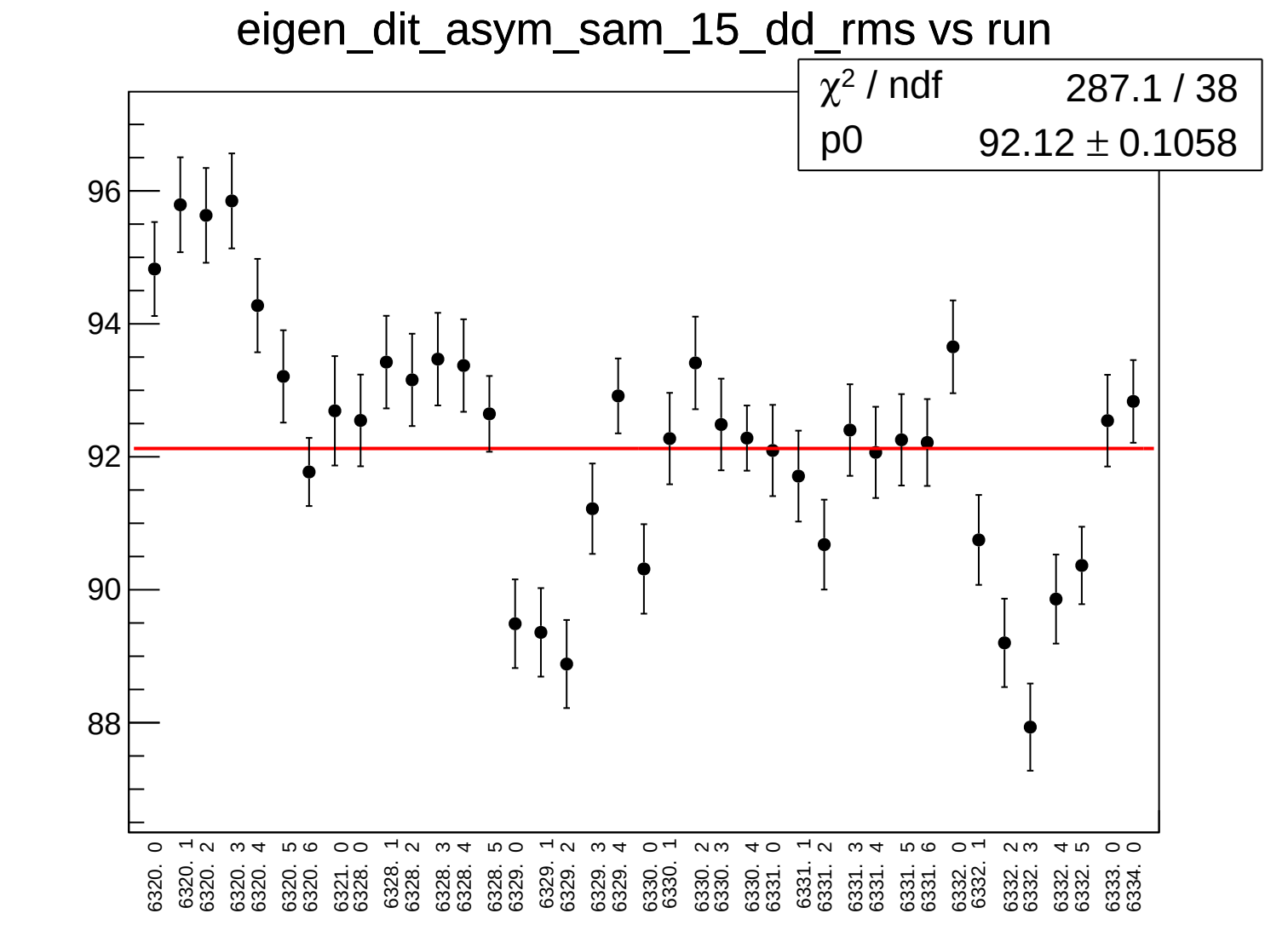

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 30.79 / 38
p0 79.39 ± 1057
pull
Entries 39
Mean 369.2
Std Dev 0

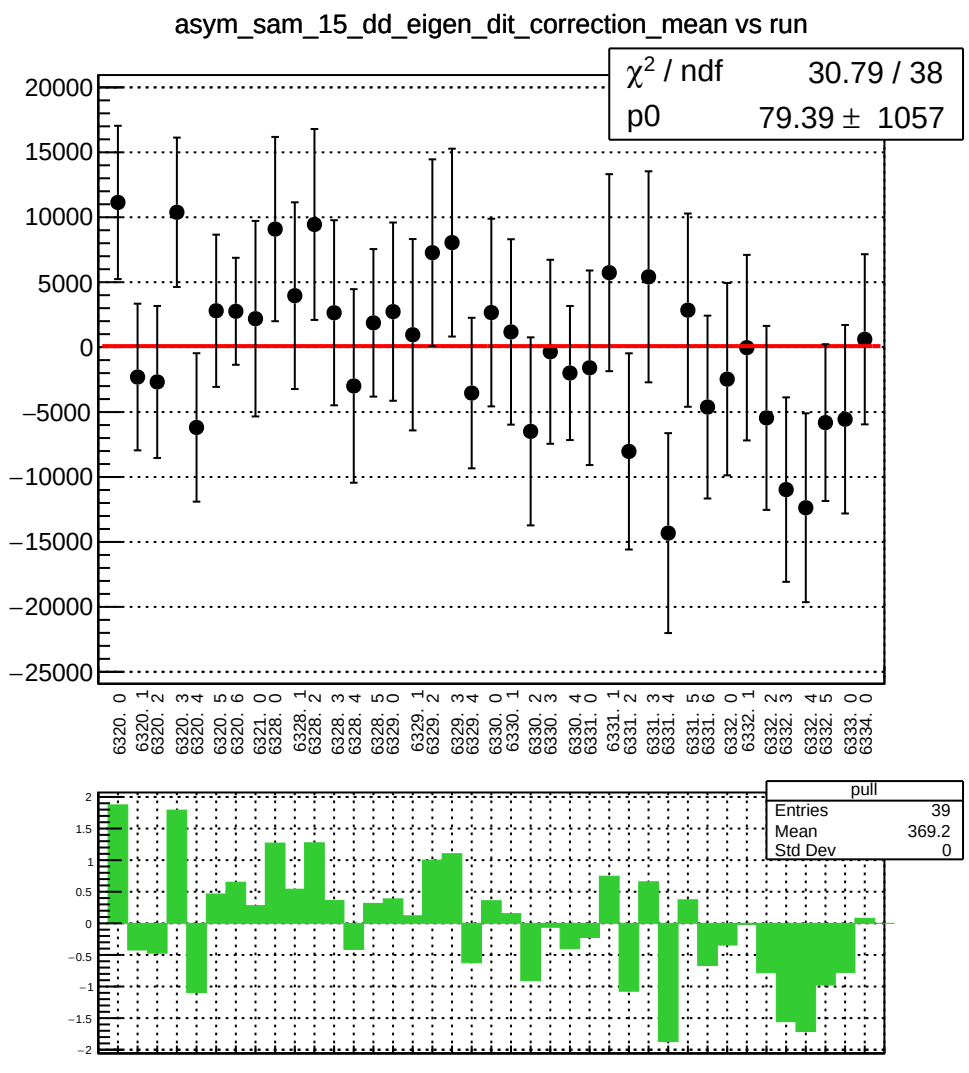

pull1D
Entries 39
Mean −0.01526
Std Dev 0.8883

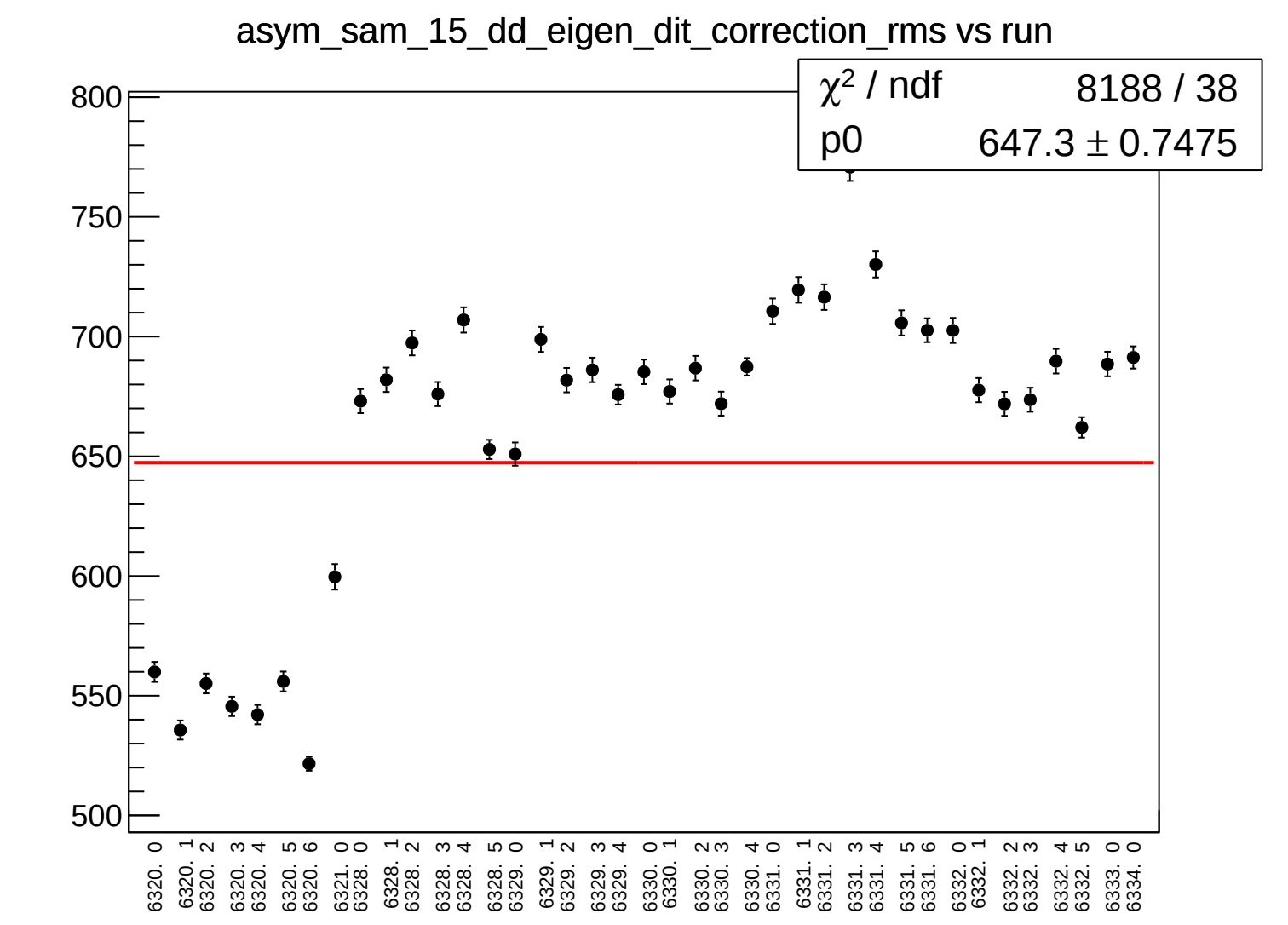

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 8187 / 38
p0 647.3 ± 0.7475
800
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

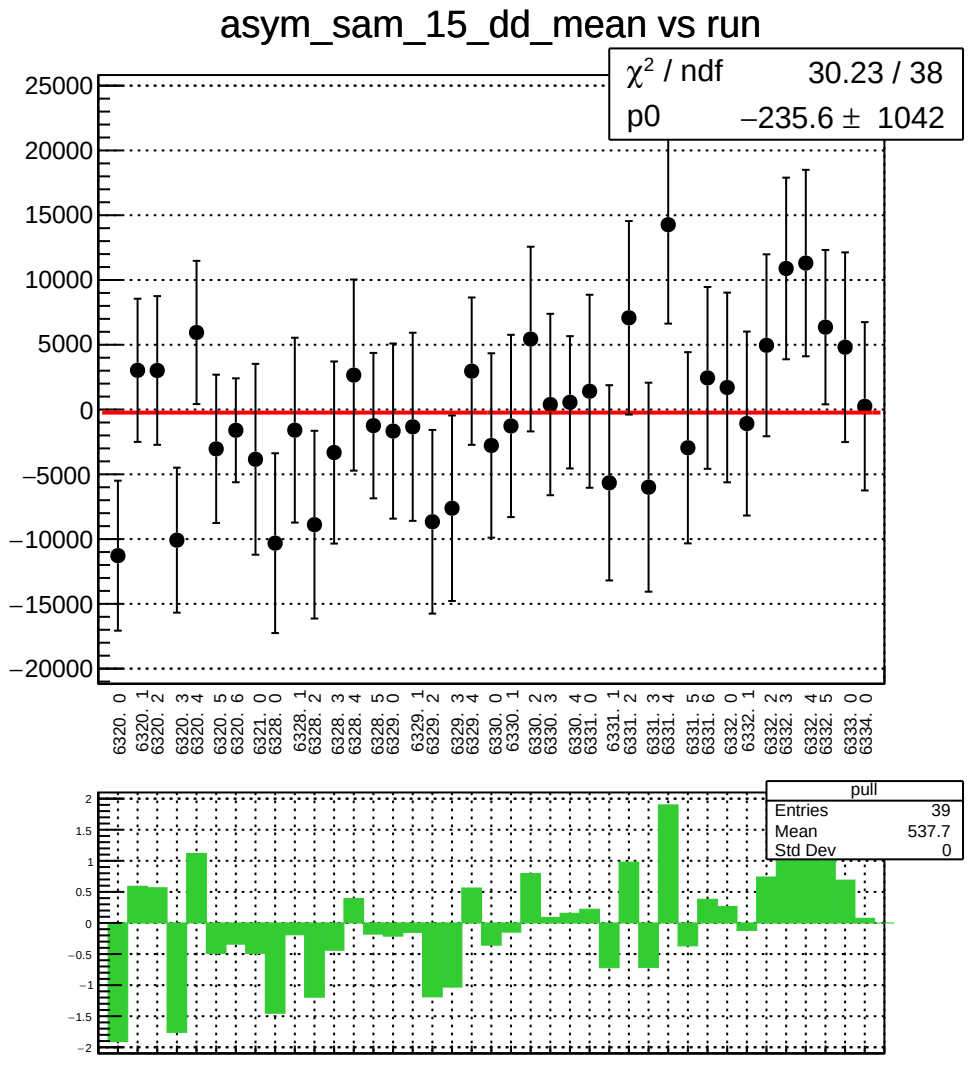

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 34.55 / 38
p0 −208 ± 149.7
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 406.6
Std Dev 0
2
1
0
−1
−2

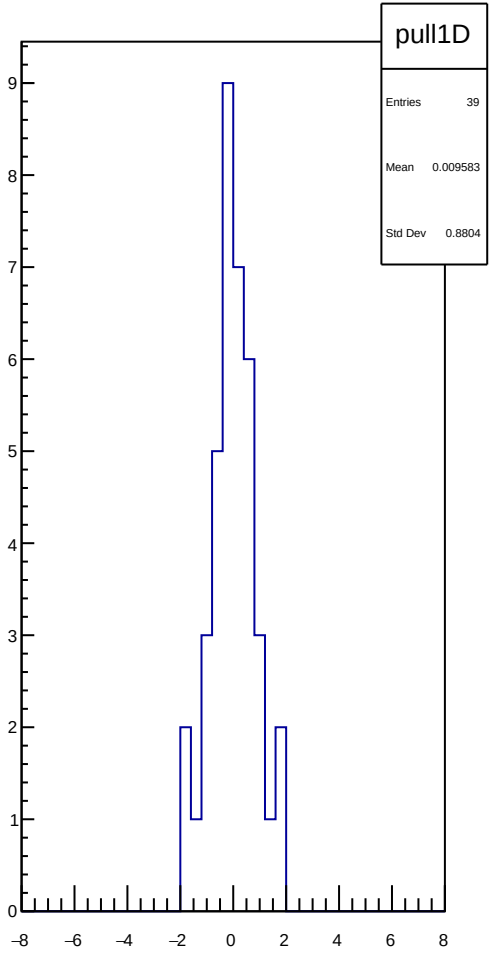

pull1D
Entries 39
Mean −0.007472
Std Dev 0.9412
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

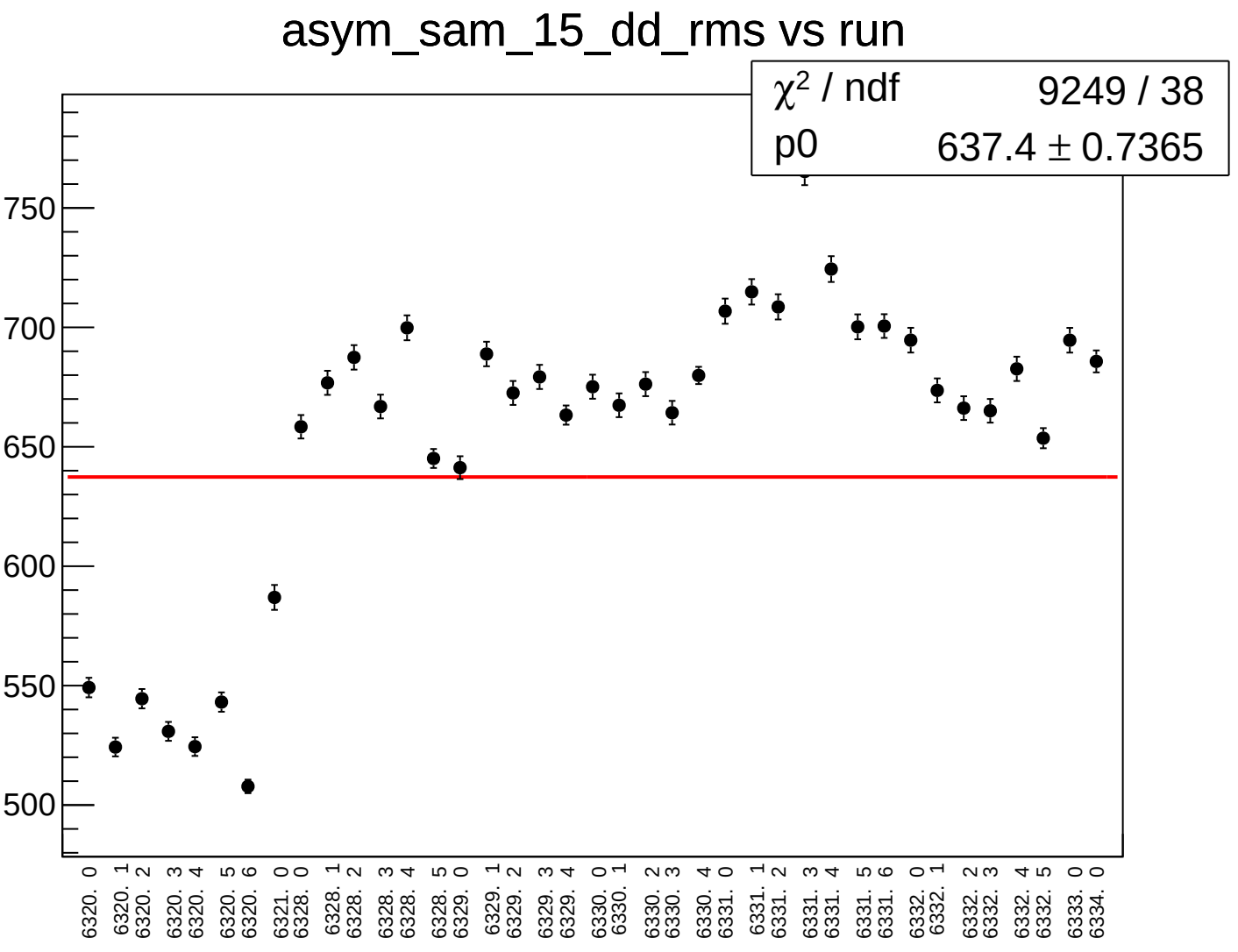

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 287.1 / 38
p0 92.12 ± 0.1058
96
94
92
90
88
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

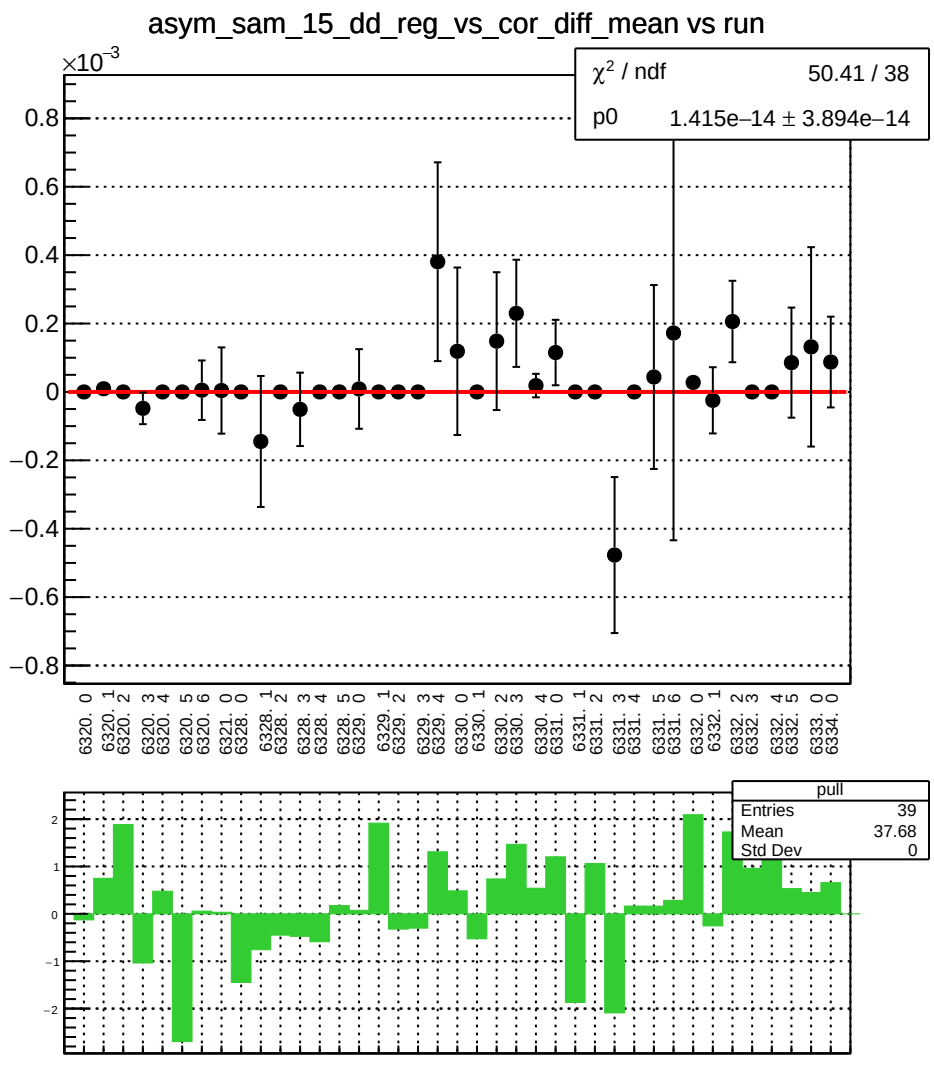

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.79 / 38
p0 79.39 ± 1057
pull
Entries 39
Mean 369.2
Std Dev 0
pull1D
Entries 39
Mean −0.01526
Std Dev 0.8883

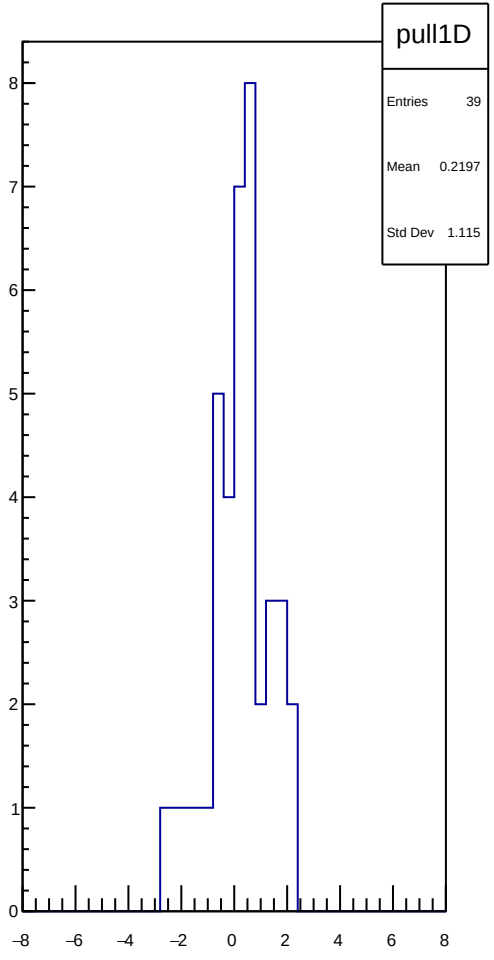

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 8188 / 38
p0 647.3 ± 0.7475
800
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

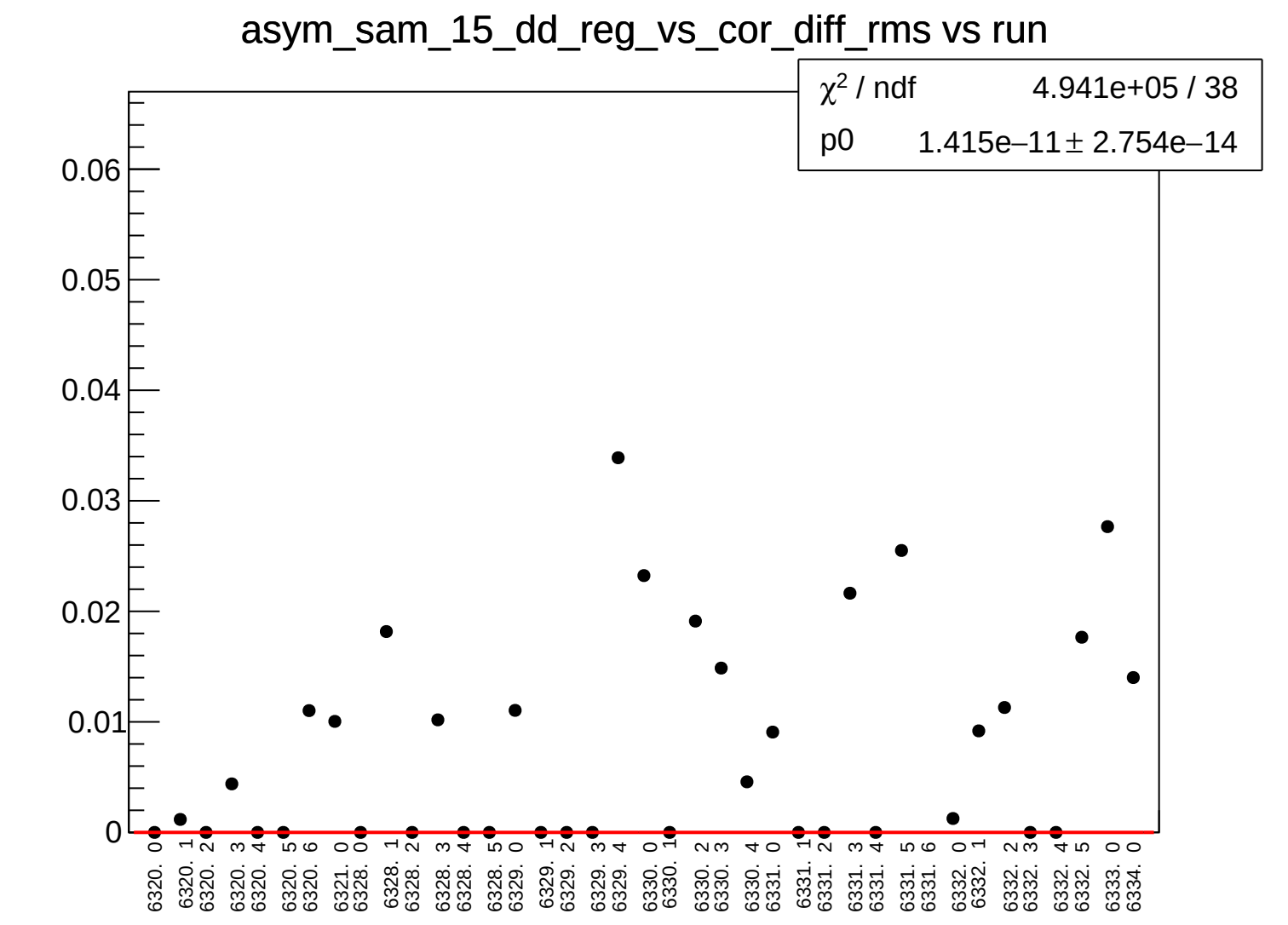

asym_sam_15_dd_mean vs run
χ² / ndf 30.23 / 38
p0 −235.6 ± 1042
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 537.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

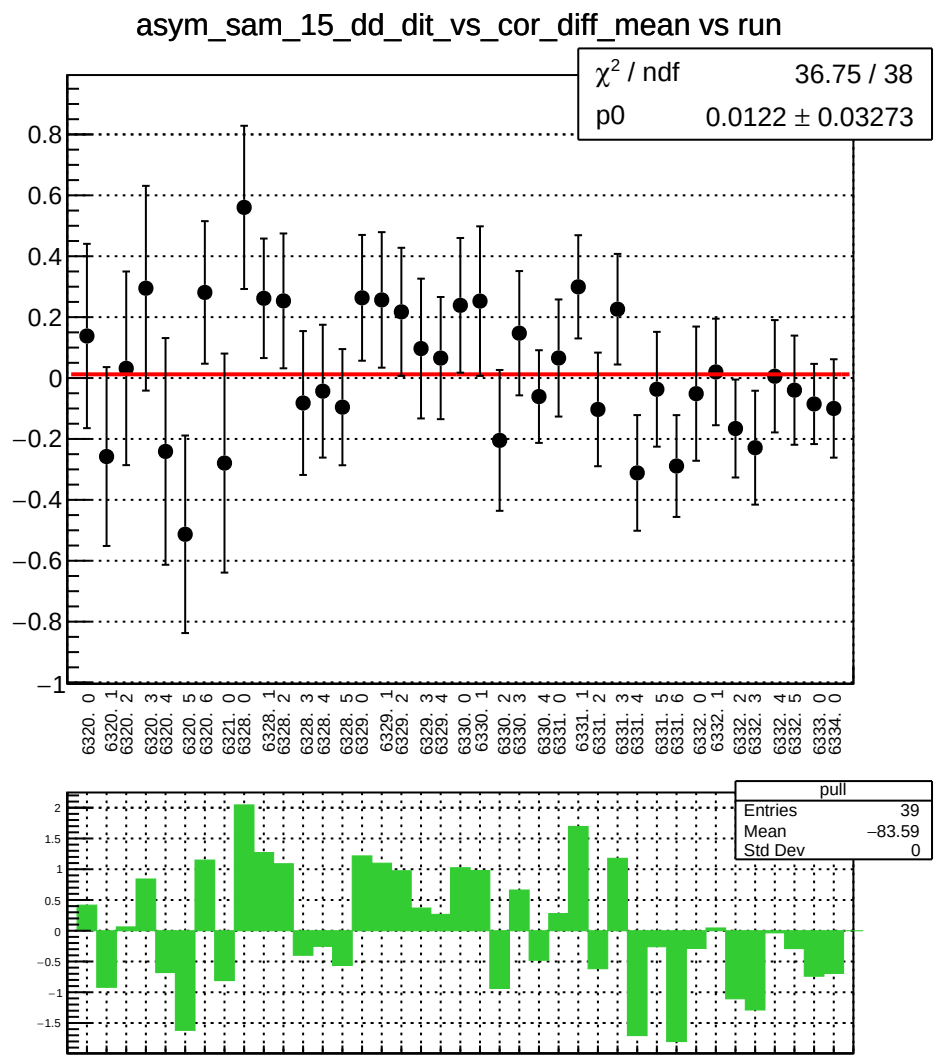

pull1D
Entries 39
Mean 0.009583
Std Dev 0.8804
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

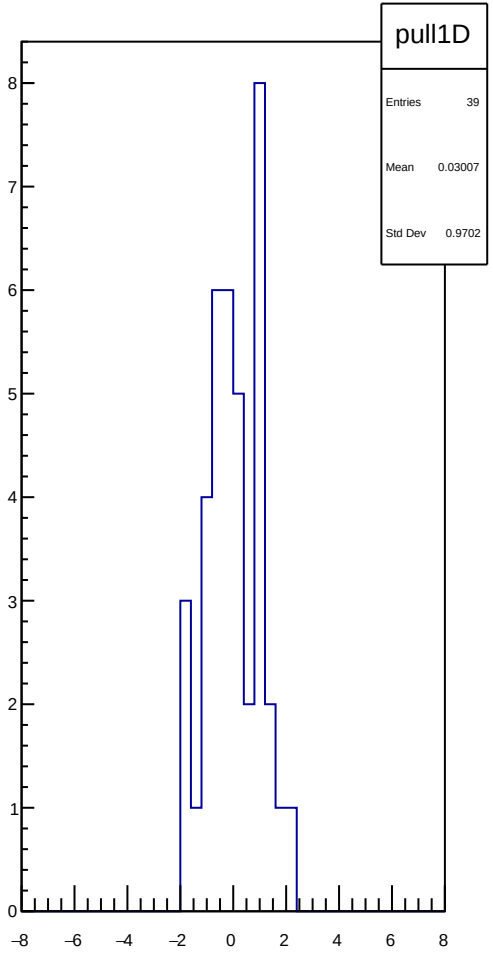

asym_sam_15_dd_rms vs run
χ^2 / ndf 9249 / 38
p0 637.4 ± 0.7365
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

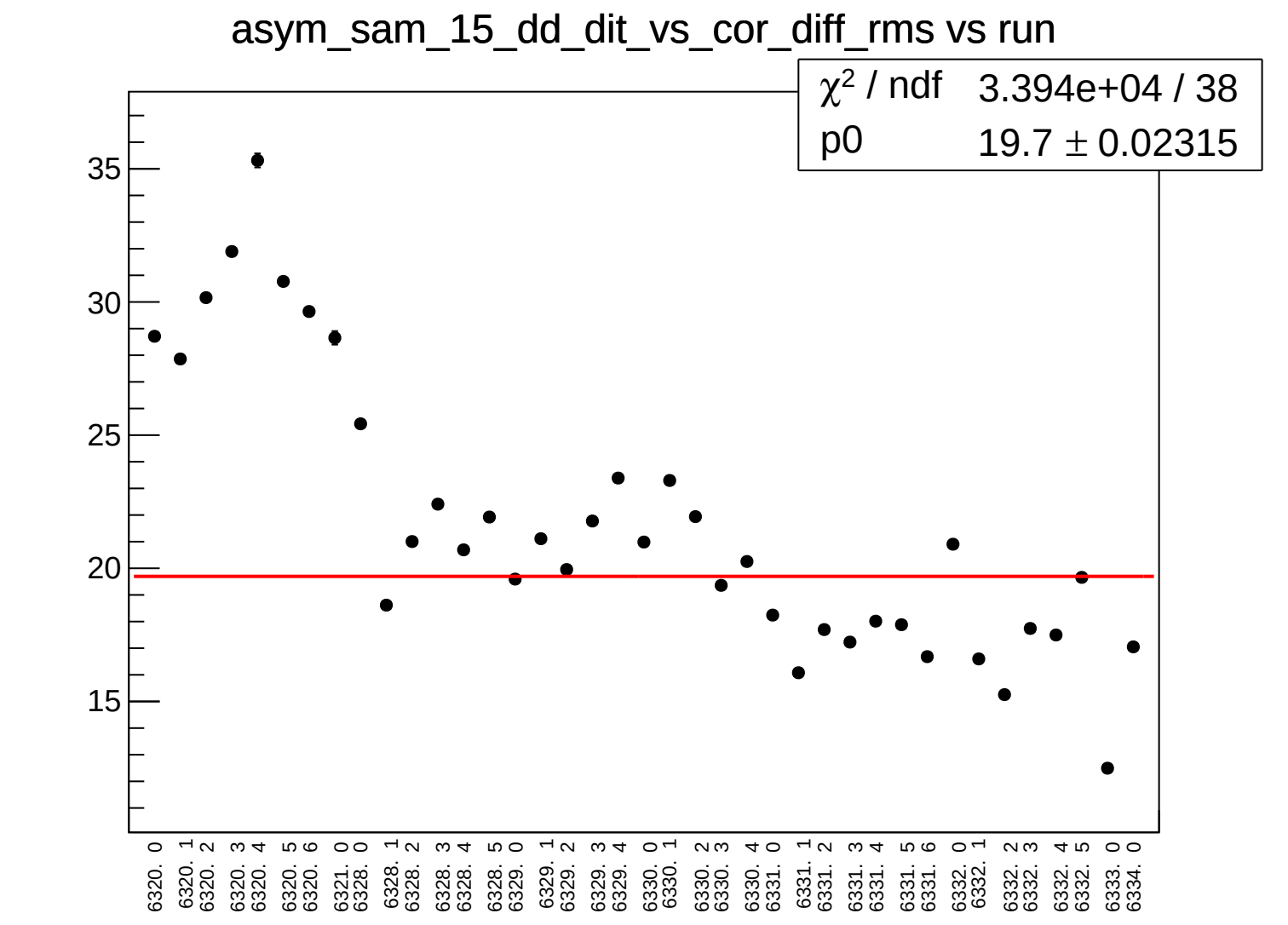

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 50.41 / 38
p0 1.415e−14 ± 3.894e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.68
Std Dev 0
2
1
0
−1
−2

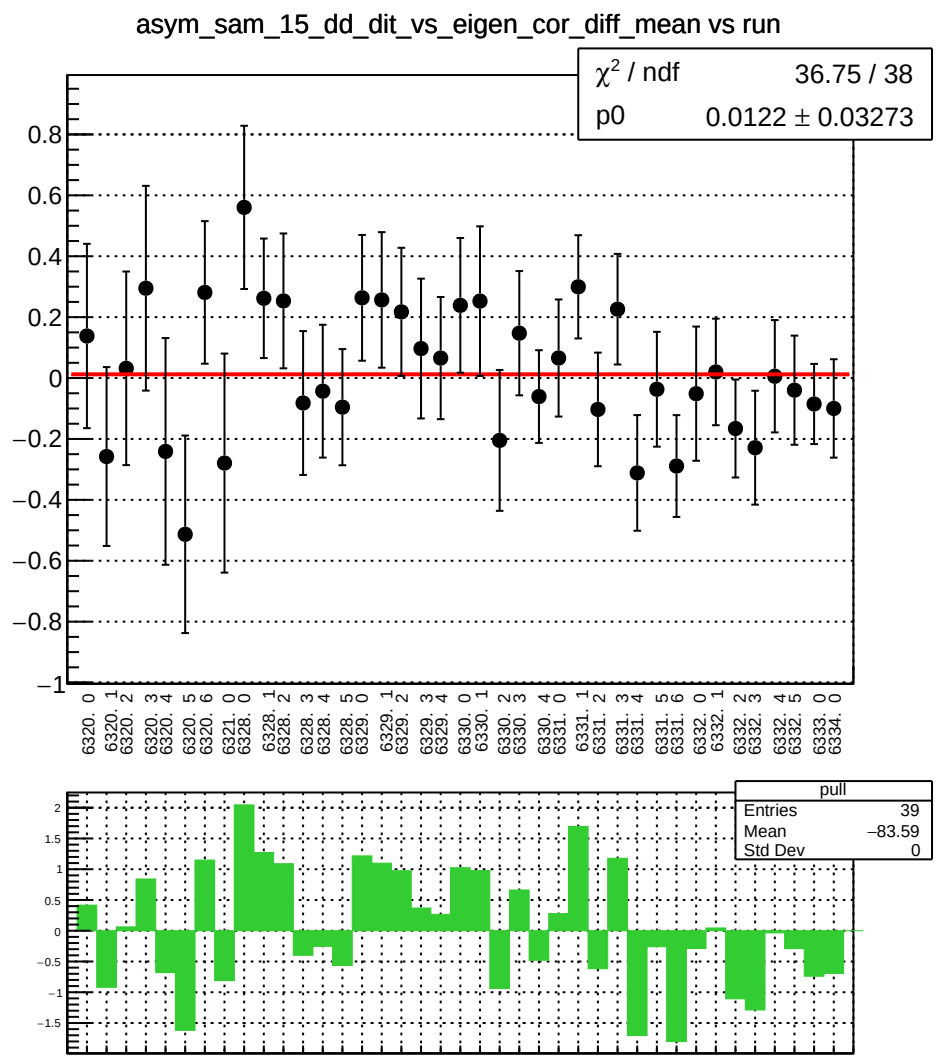

pull1D
Entries 39
Mean 0.2197
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

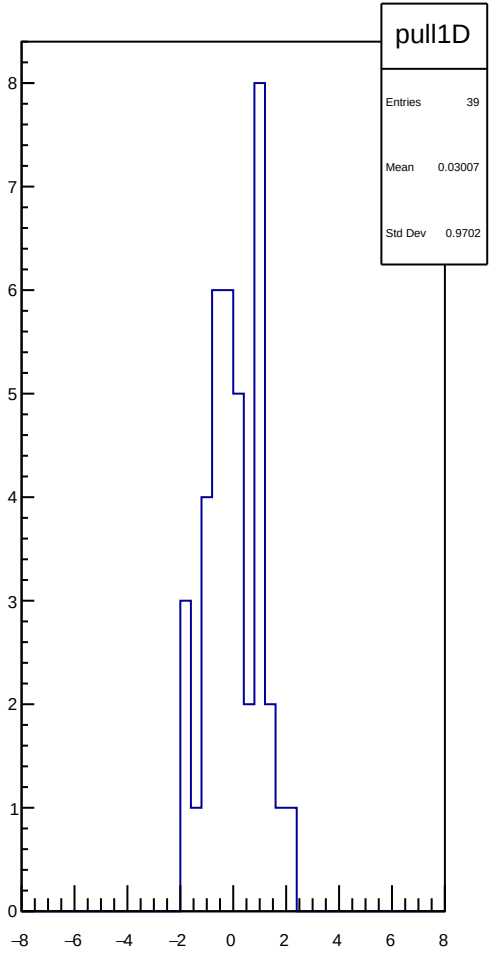

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 4.941e+05 / 38
p0 1.415e−11 ± 2.754e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

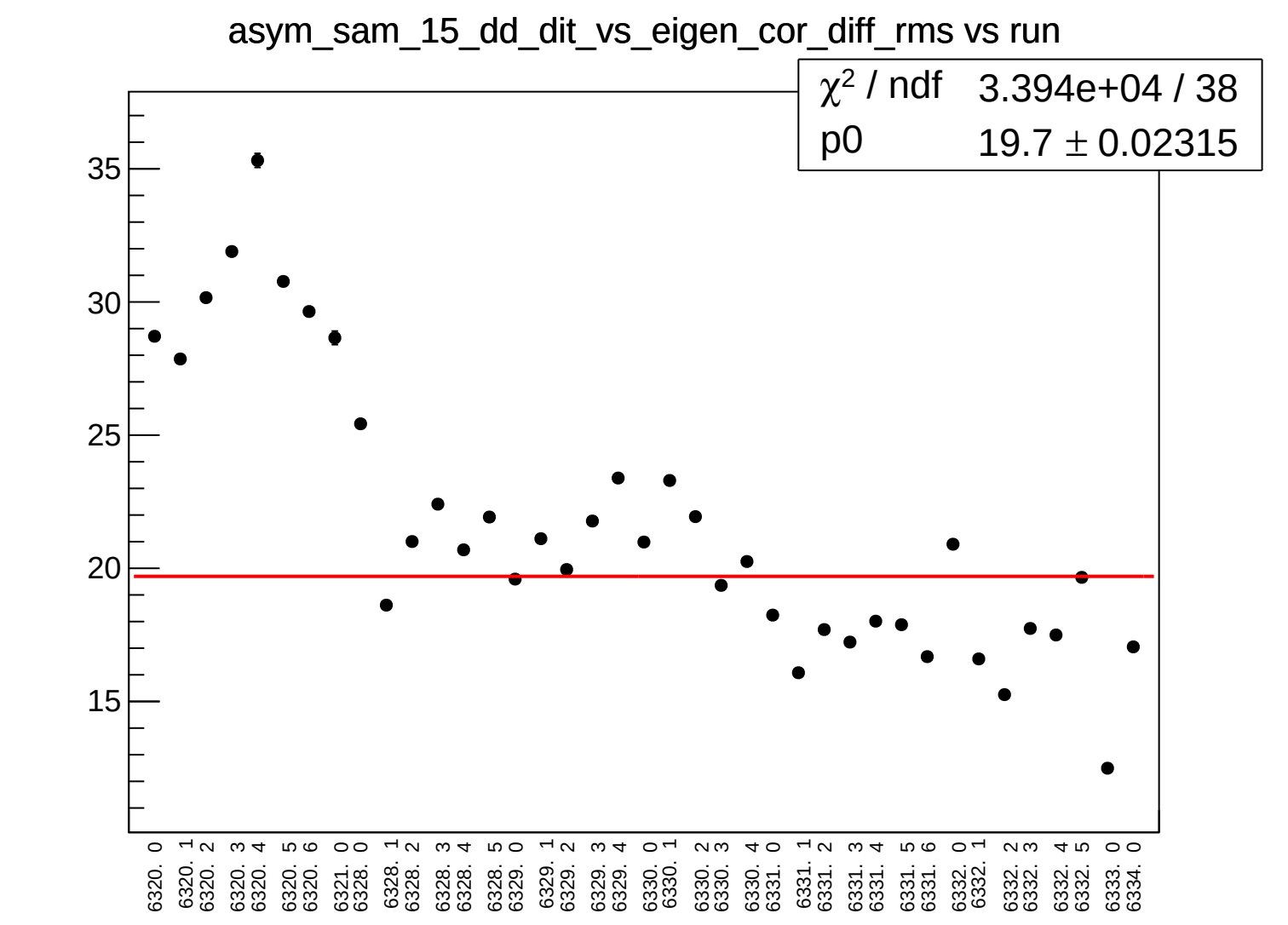

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.75 / 38
p0 0.0122 ± 0.03273
pull
Entries 39
Mean −83.59
Std Dev 0

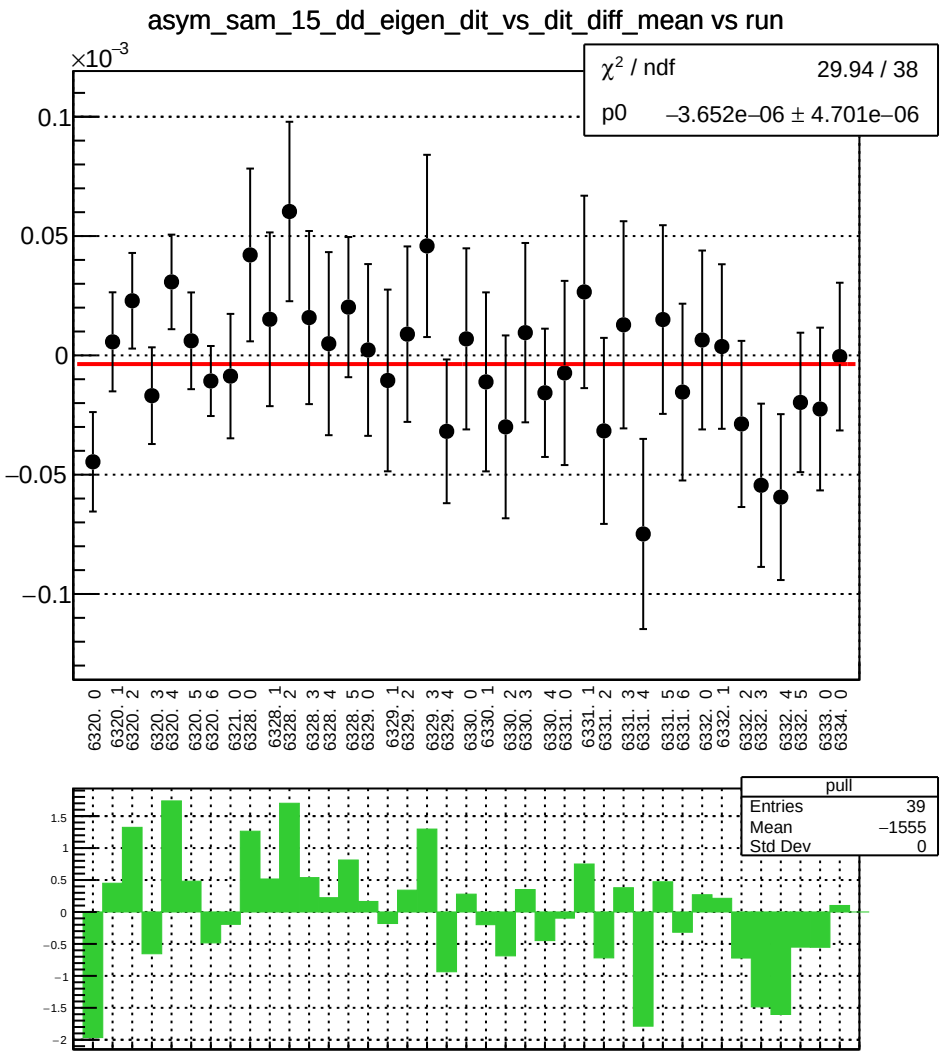

pull1D
Entries 39
Mean 0.03007
Std Dev 0.9702

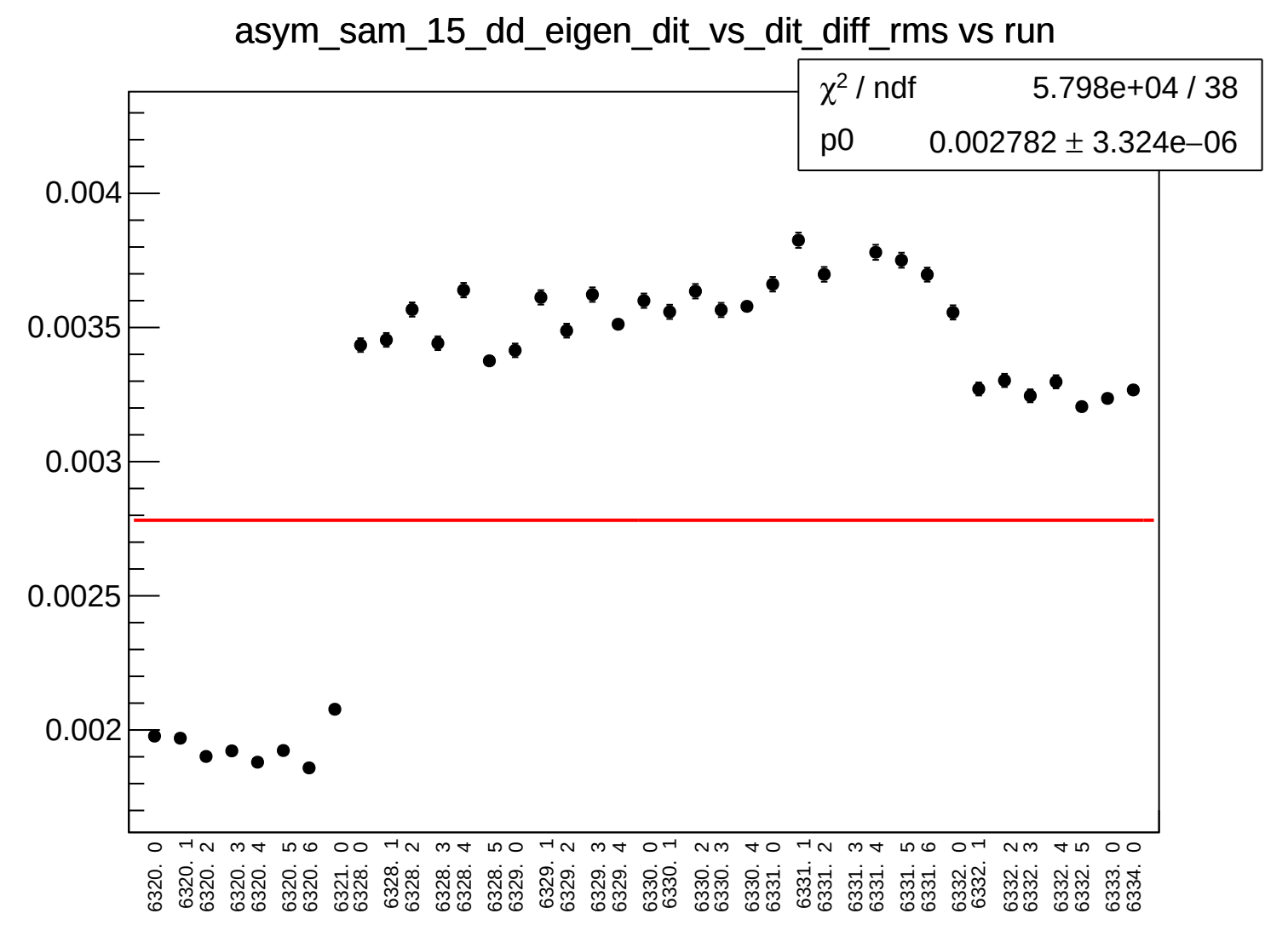

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.394e+04 / 38
p0 19.7 ± 0.02315
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

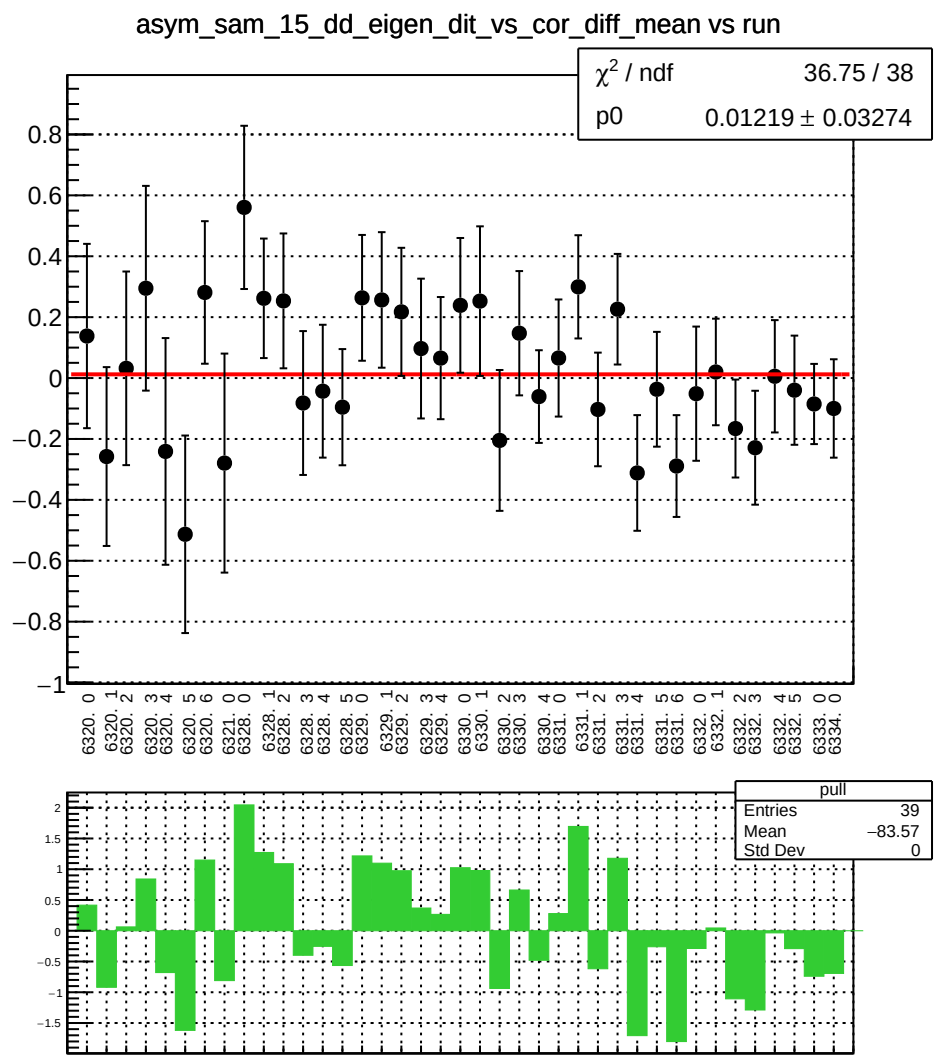

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.75 / 38
p0 0.0122 ± 0.03273
pull
Entries 39
Mean −83.59
Std Dev 0

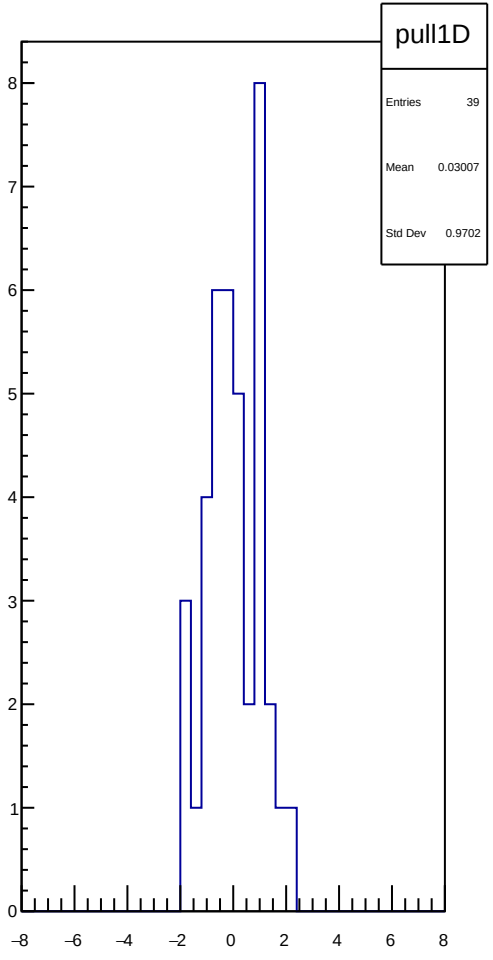

pull1D
Entries 39
Mean 0.03007
Std Dev 0.9702

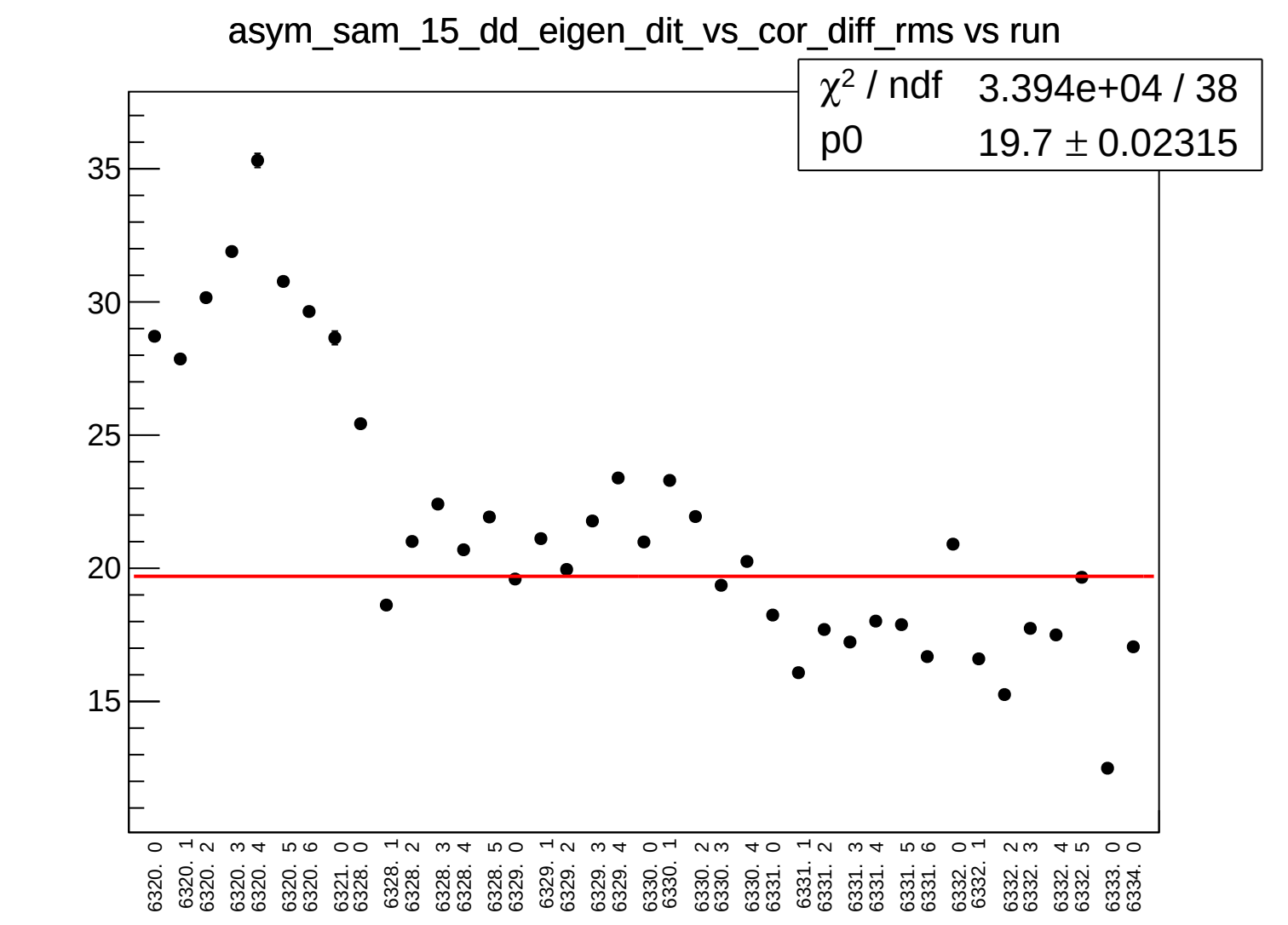

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.394e+04 / 38
p0 19.7 ± 0.02315
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

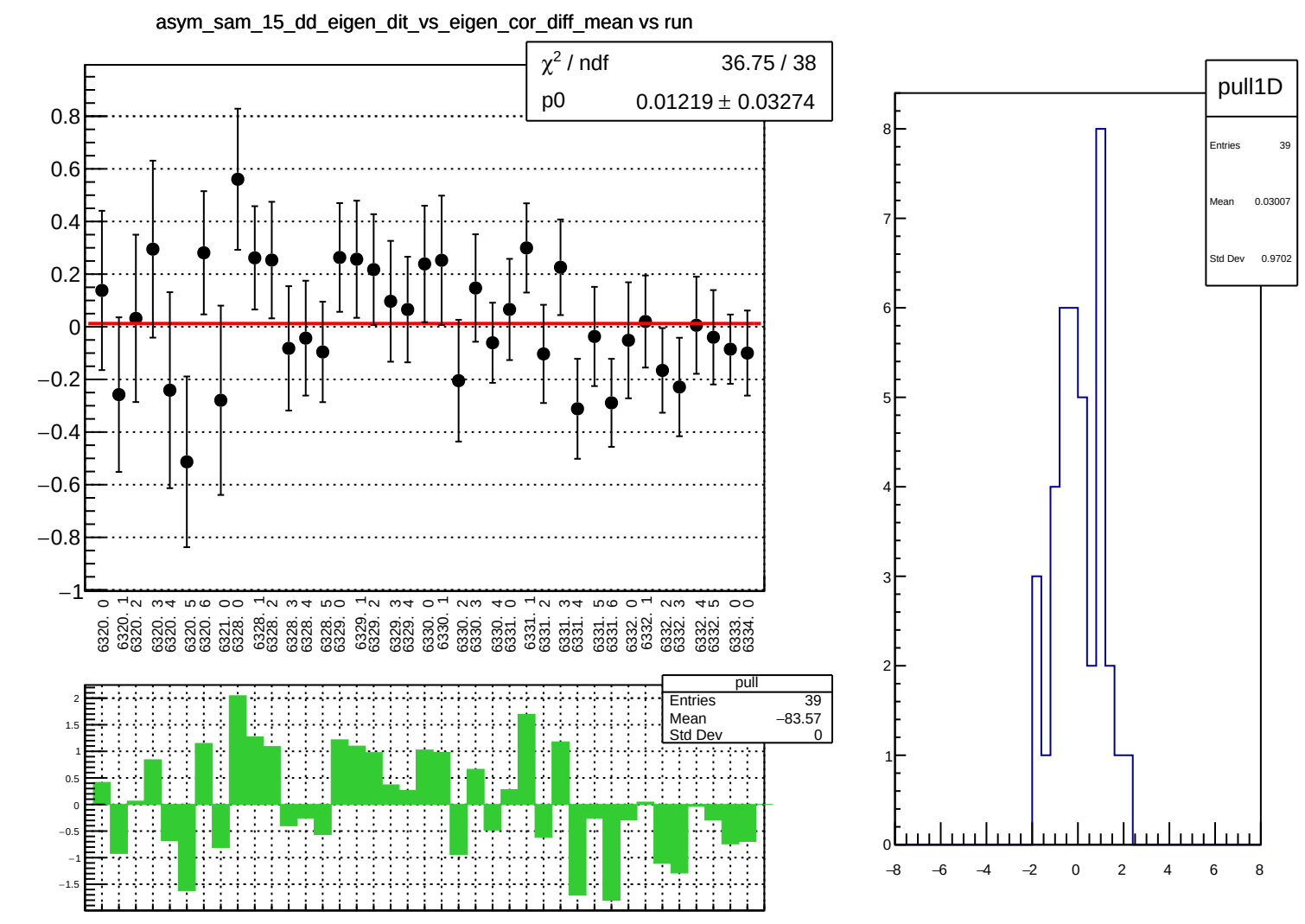

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.94 / 38
p0 −3.652e−06 ± 4.701e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1555
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.00227
Std Dev 0.8762
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

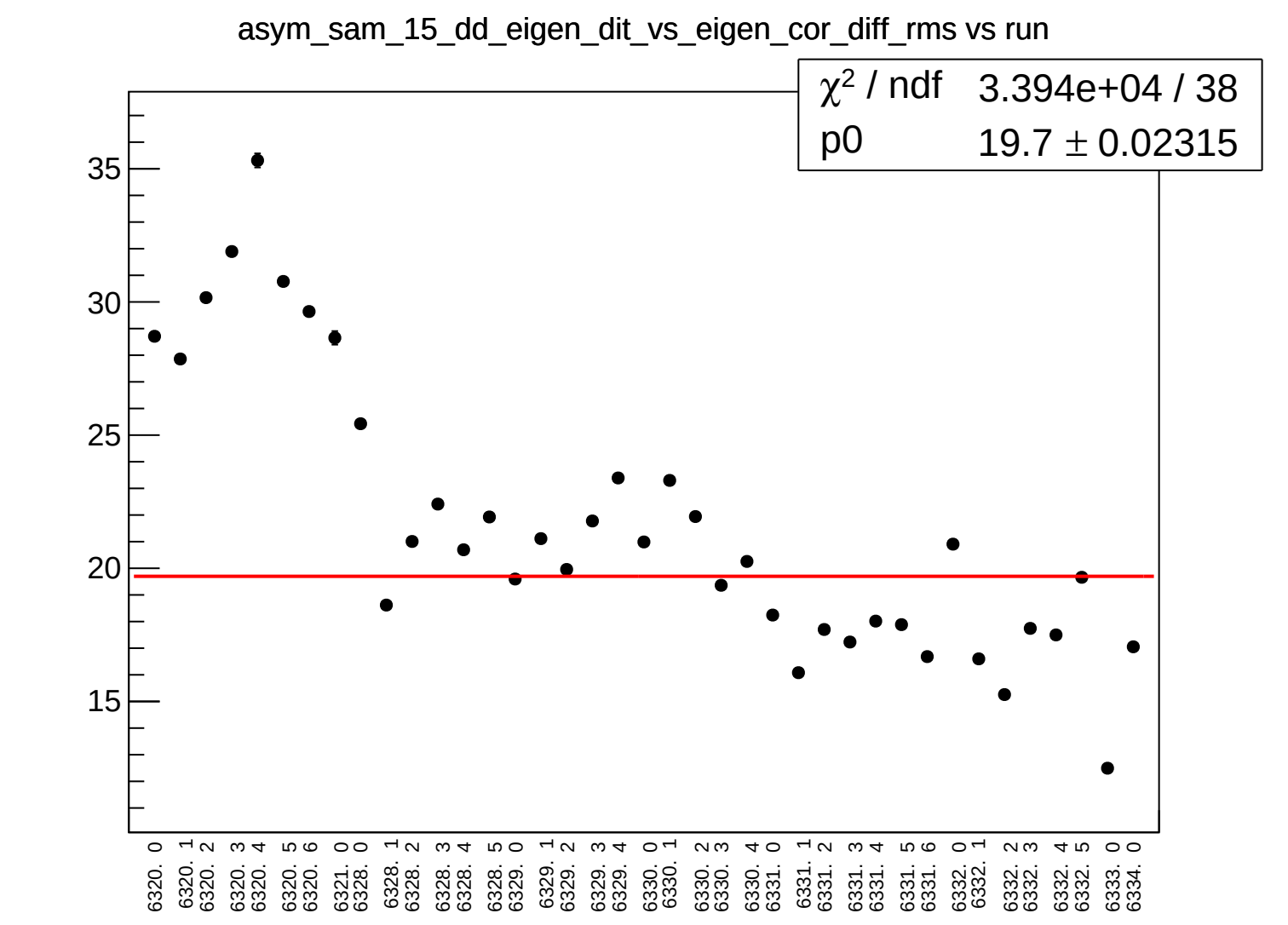

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.798e+04 / 38
p0 0.002782 ± 3.324e−06
0.004
0.0035
0.003
0.0025
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

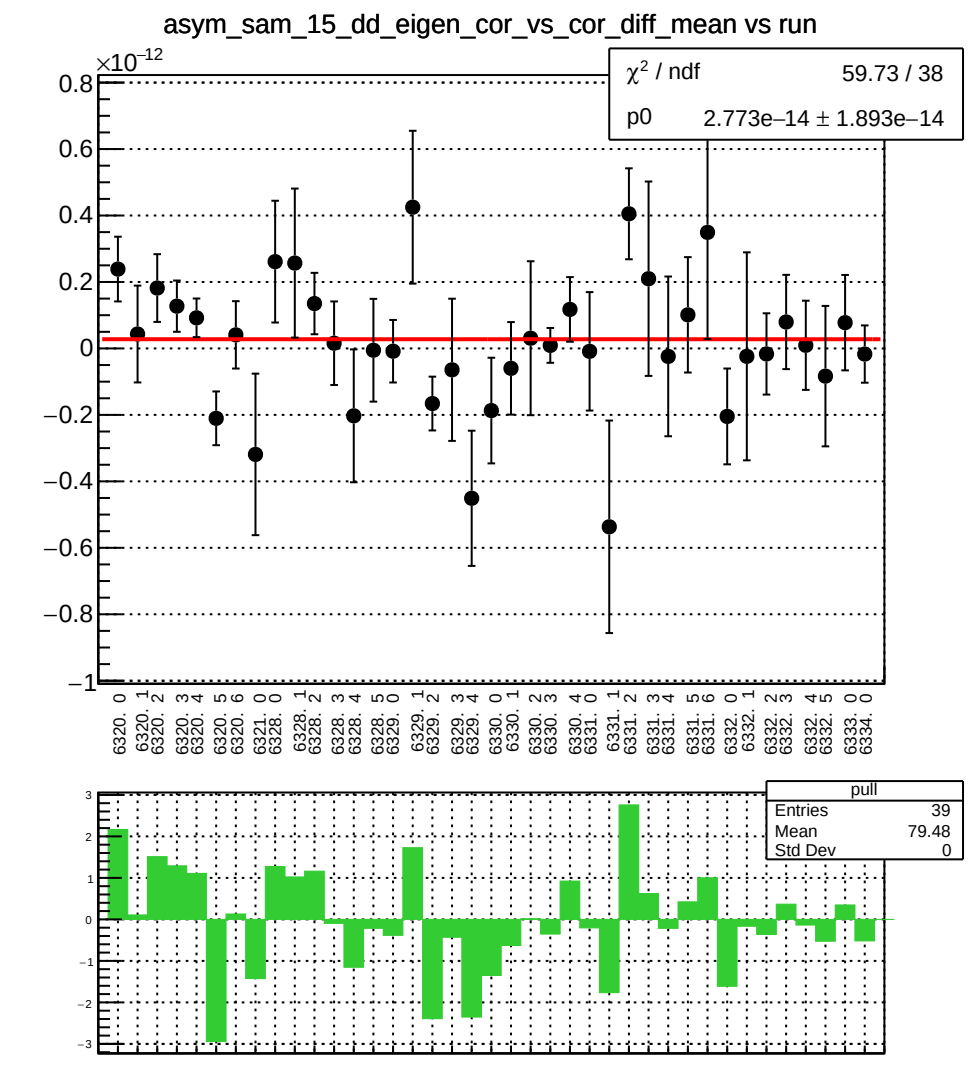

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.75 / 38
p0 0.01219 ± 0.03274
pull
Entries 39
Mean −83.57
Std Dev 0

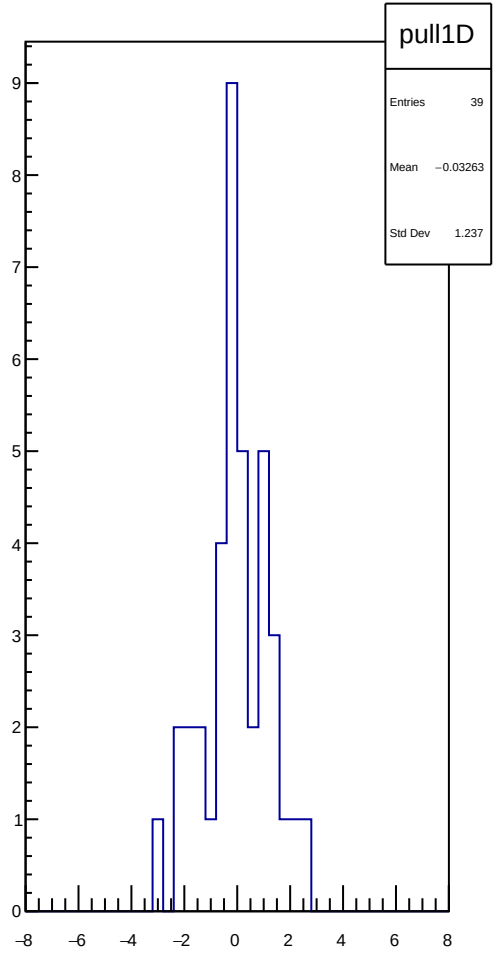

pull1D
Entries 39
Mean 0.03007
Std Dev 0.9702

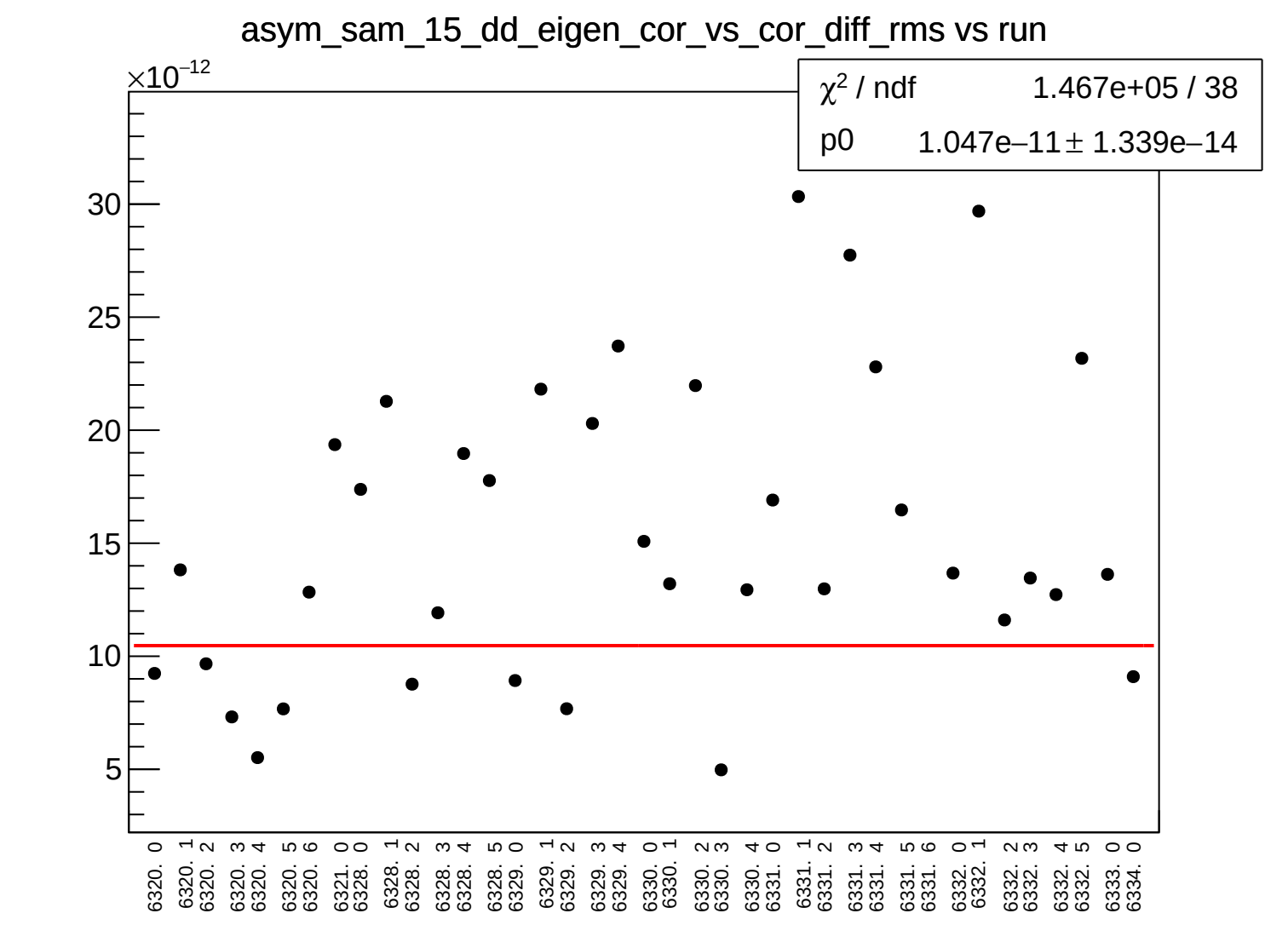

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.394e+04 / 38
p0 19.7 ± 0.02315
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

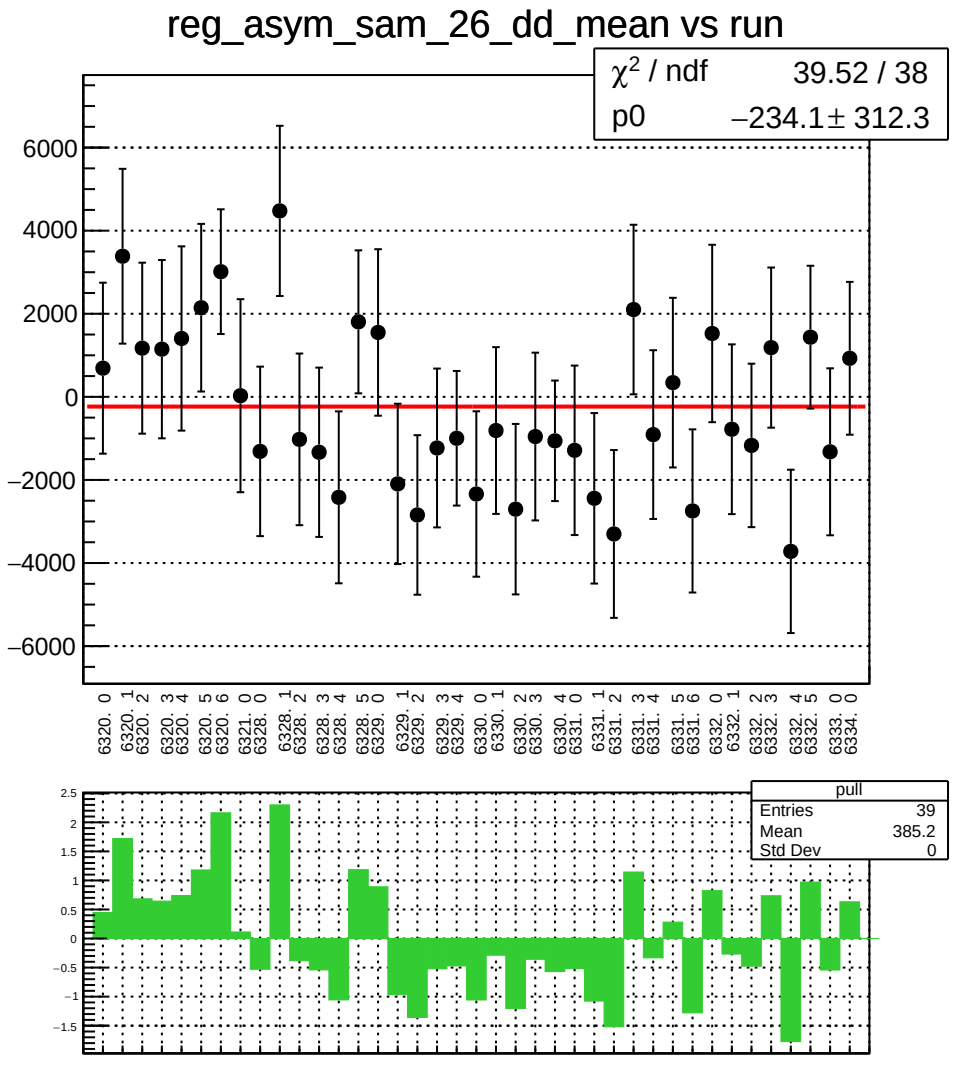

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.75 / 38
p0 0.01219 ± 0.03274
pull
Entries 39
Mean −83.57
Std Dev 0
pull1D
Entries 39
Mean 0.03007
Std Dev 0.9702

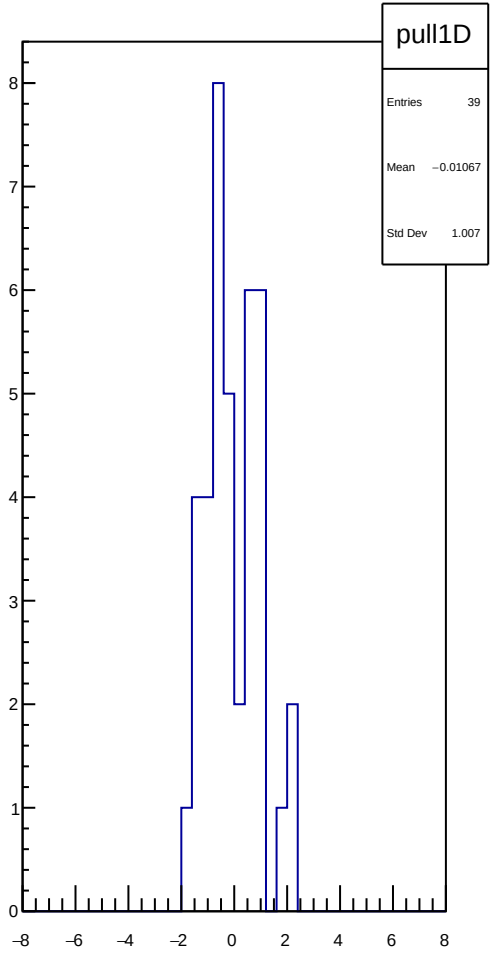

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.394e+04 / 38
p0 19.7 ± 0.02315
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

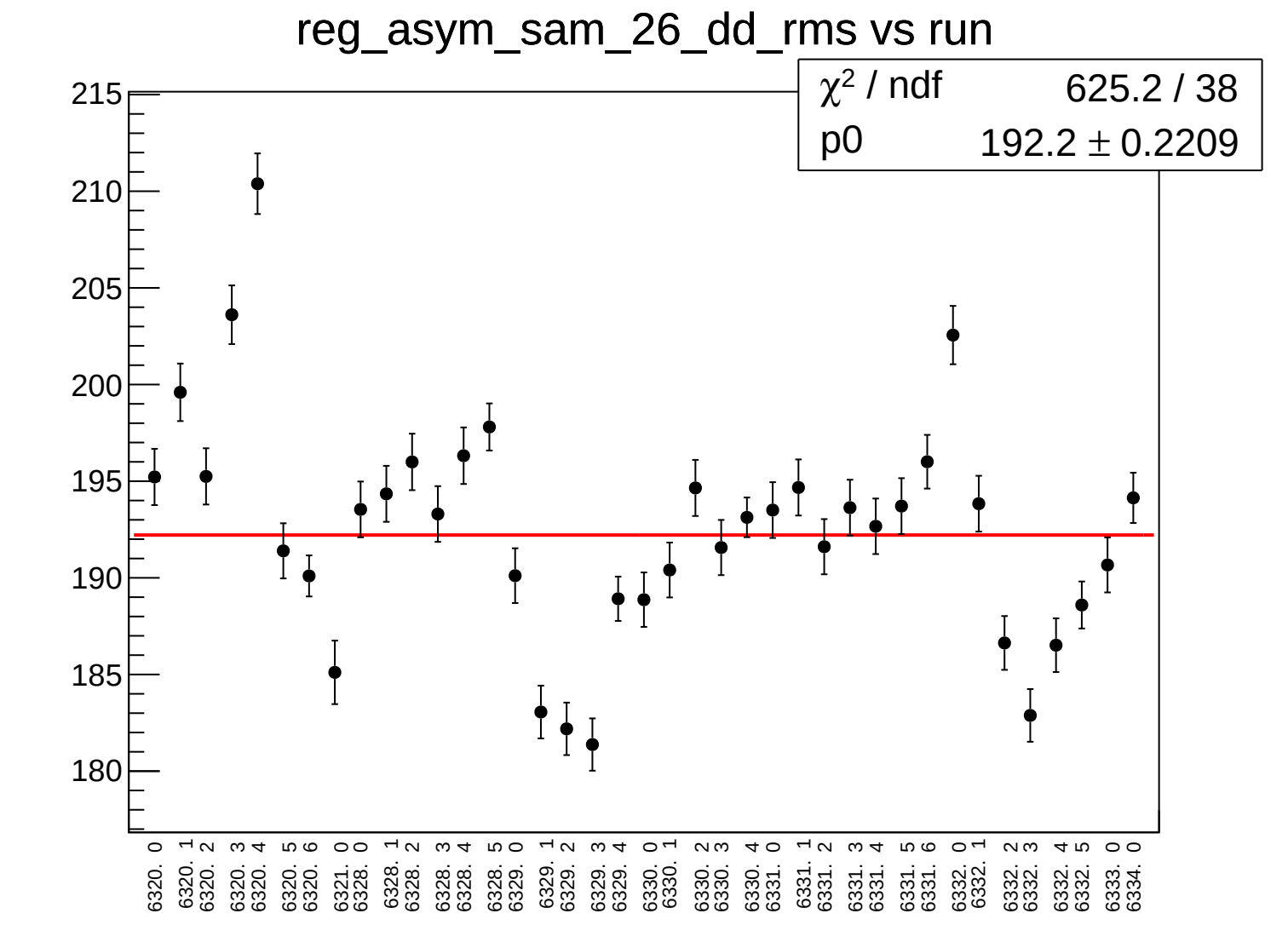

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.73 / 38
p0 2.773e−14 ± 1.893e−14
pull
Entries 39
Mean 79.48
Std Dev 0

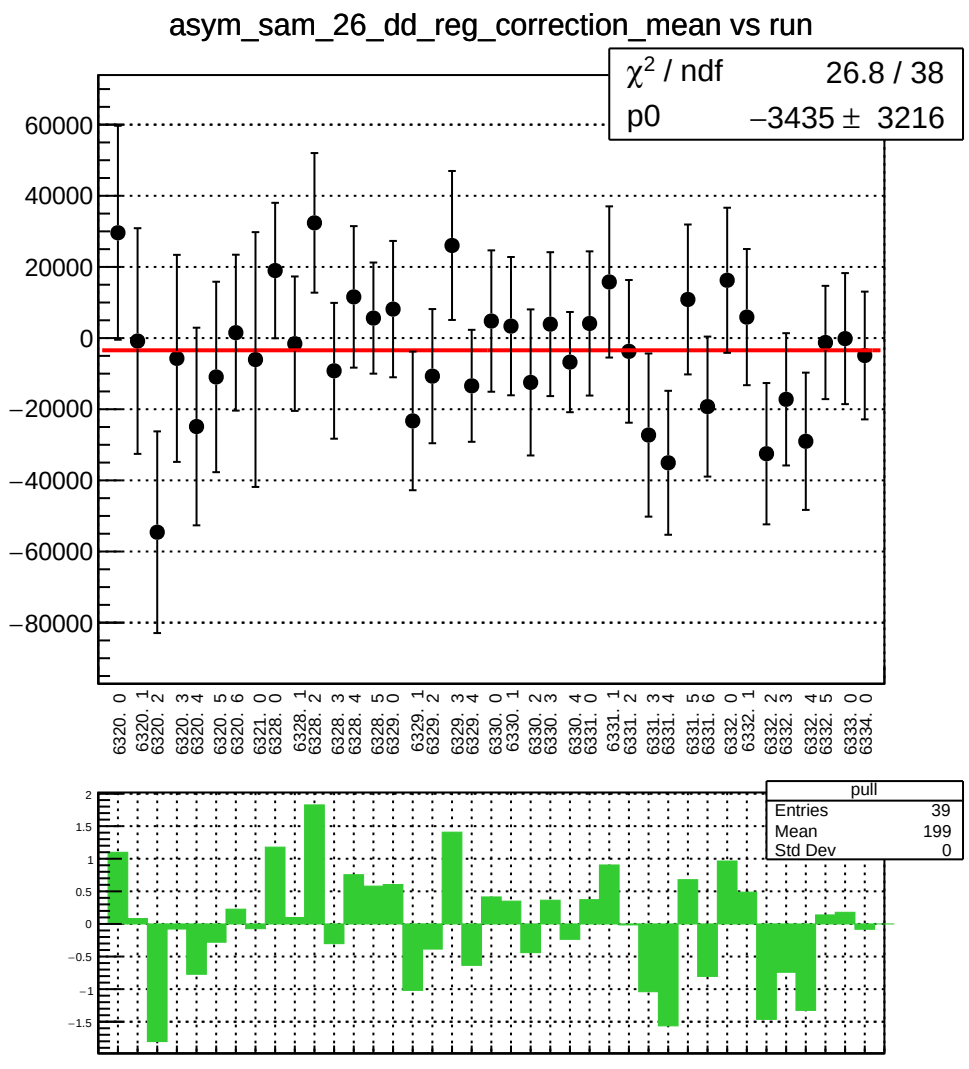

pull1D
Entries 39
Mean −0.03263
Std Dev 1.237

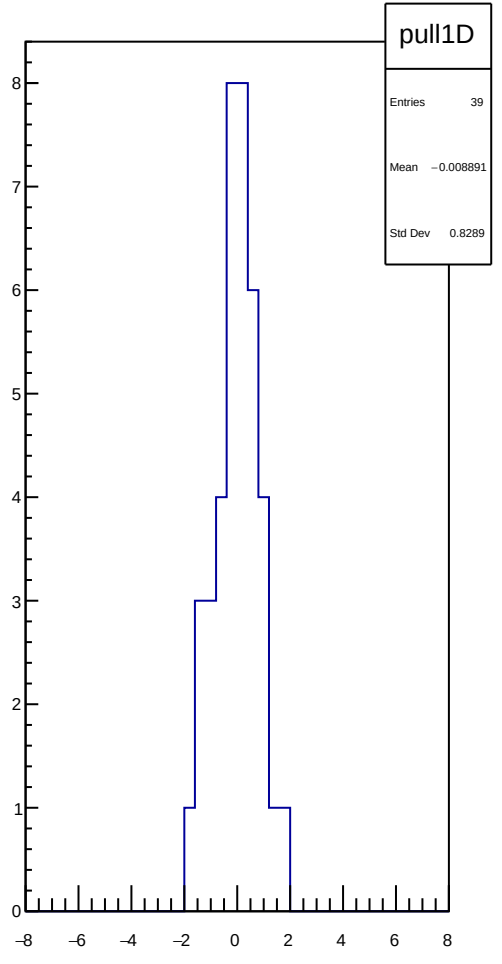

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.467e+05 / 38
p0 1.047e−11 ± 1.339e−14
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

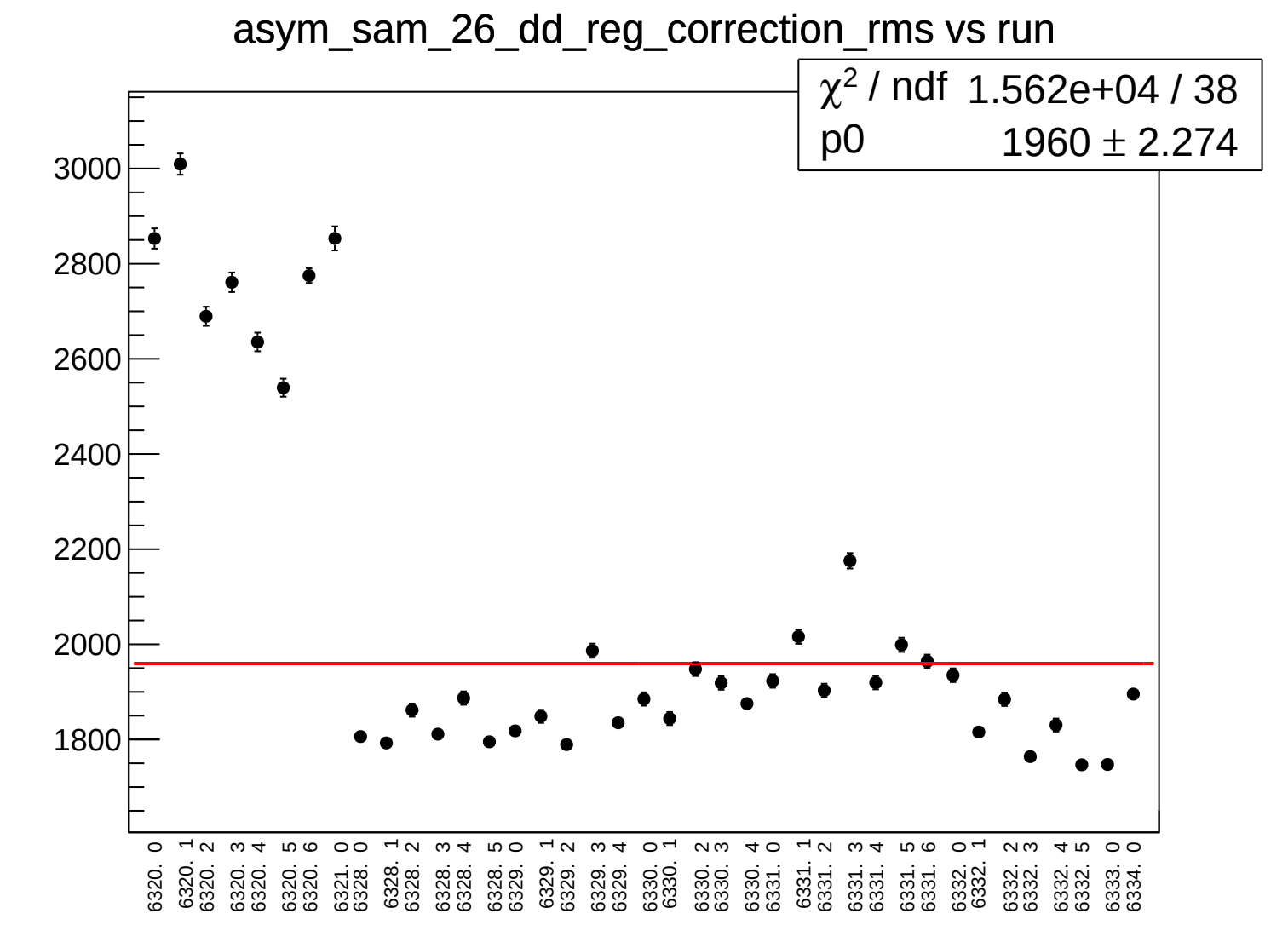

reg_asym_sam_26_dd_mean vs run
χ² / ndf 39.52 / 38
p0 −234.1± 312.3
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 385.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

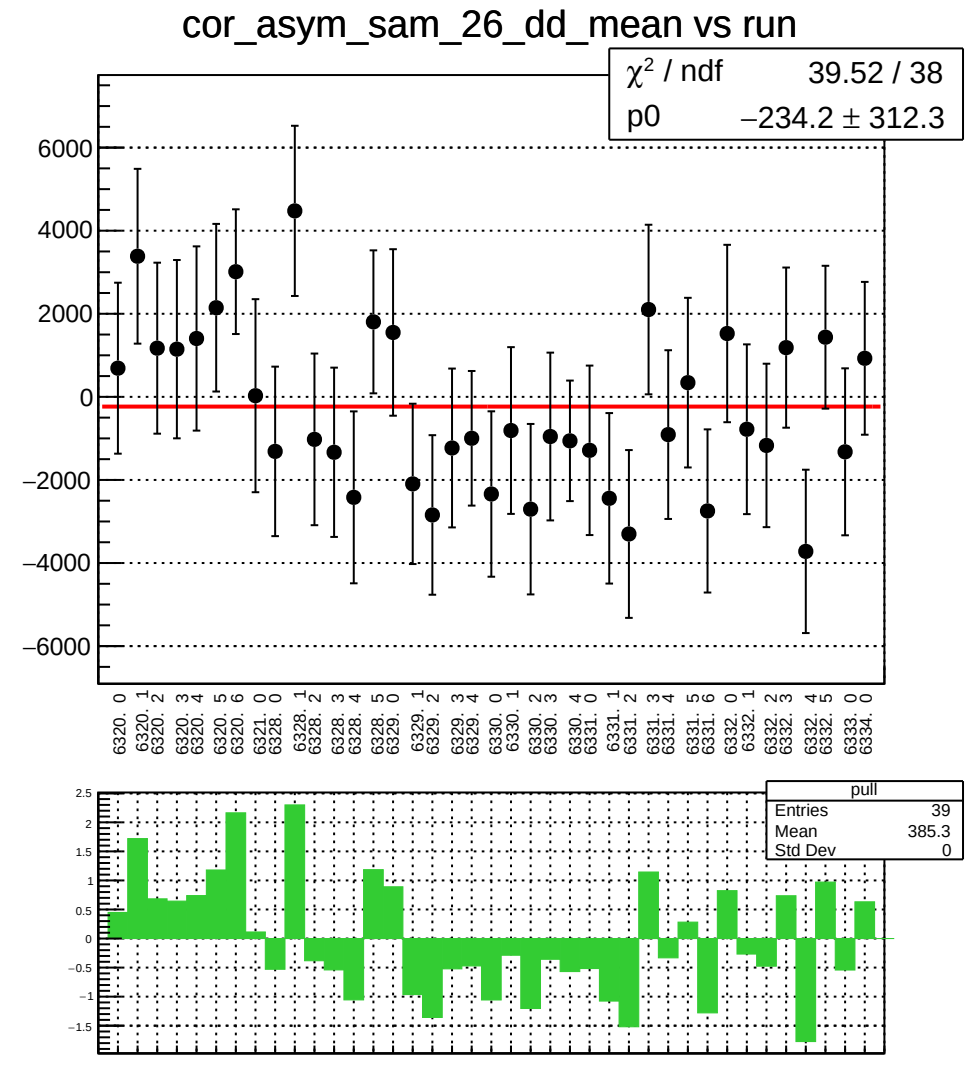

pull1D
Entries 39
Mean −0.01067
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

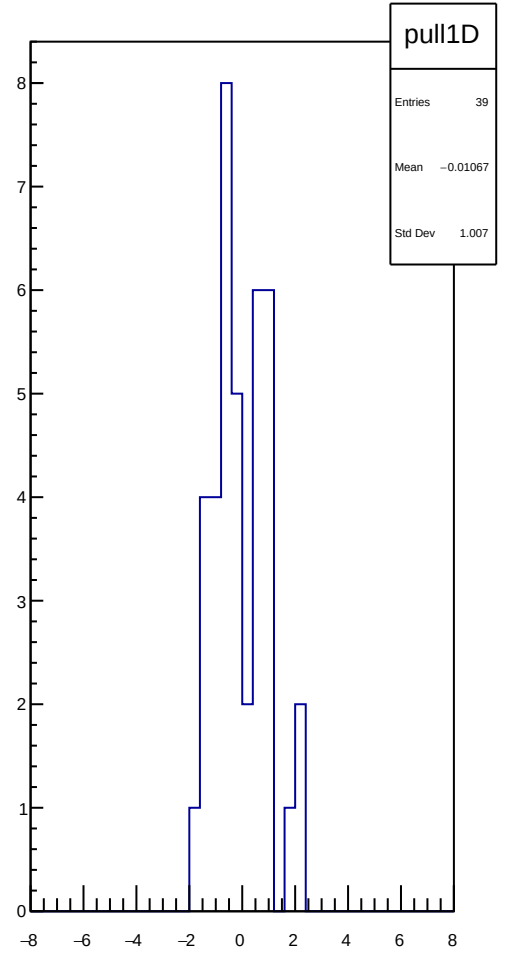

reg_asym_sam_26_dd_rms vs run
χ² / ndf 625.2 / 38
p0 192.2 ± 0.2209
215
210
205
200
195
190
185
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

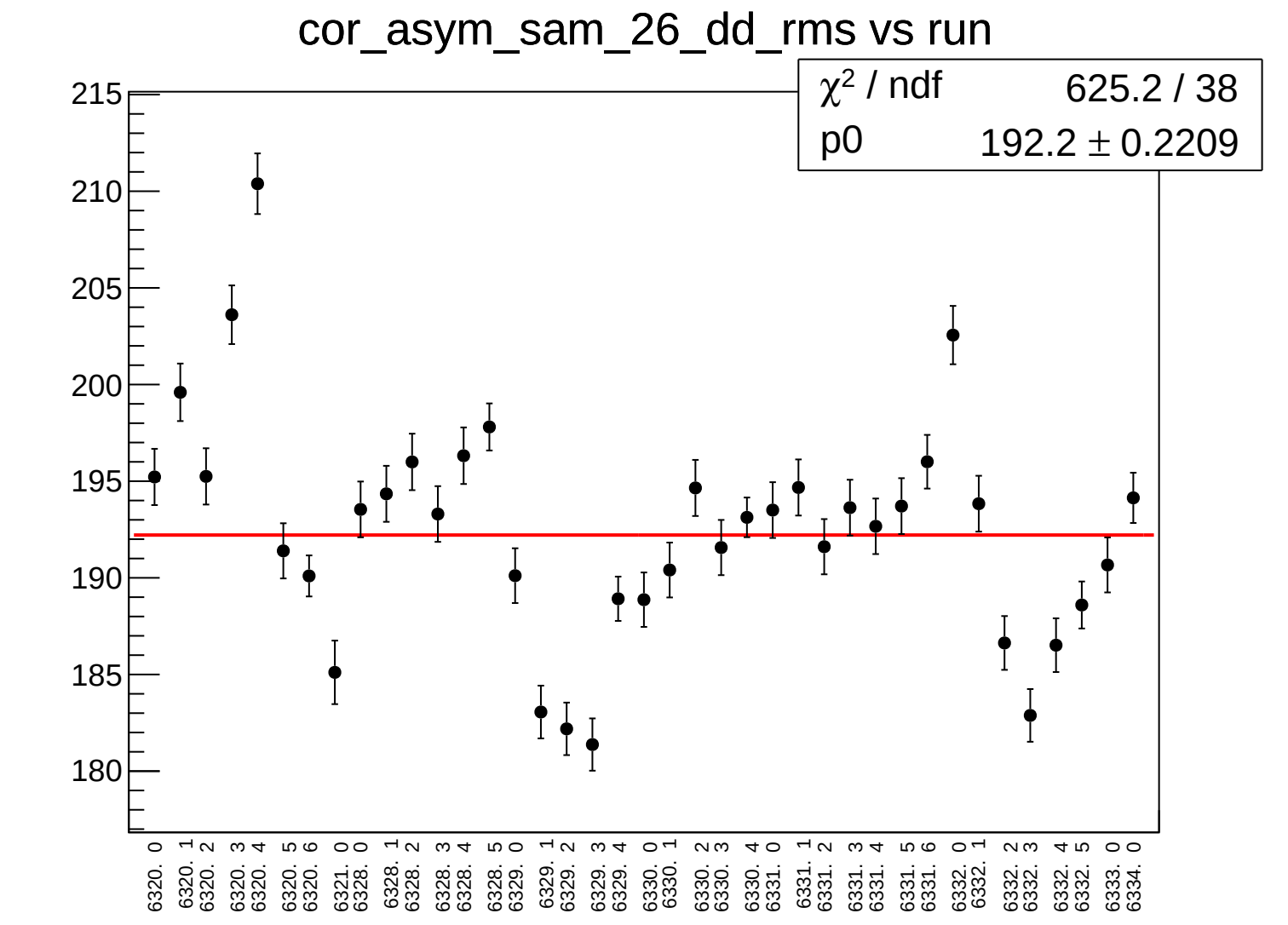

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 26.8 / 38
p0 −3435 ± 3216
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

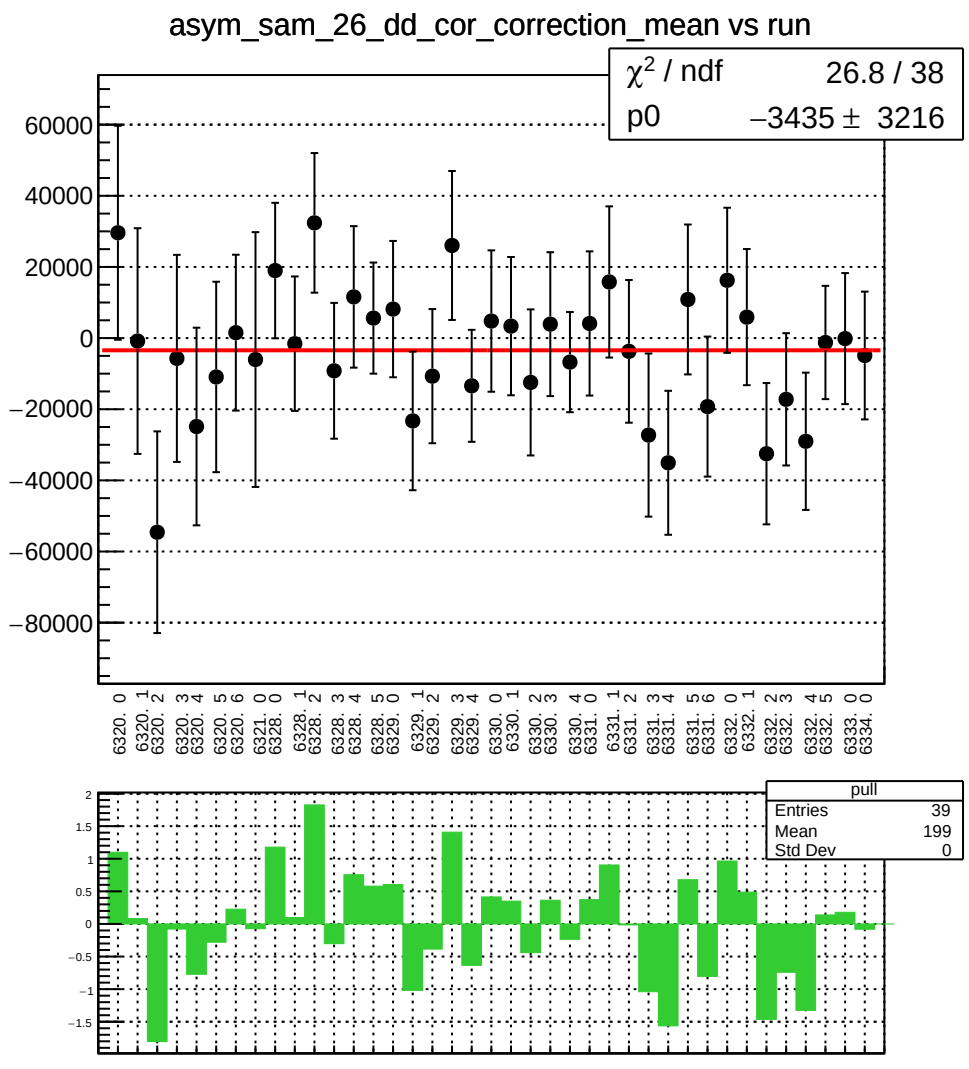

pull1D
Entries 39
Mean −0.008891
Std Dev 0.8289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

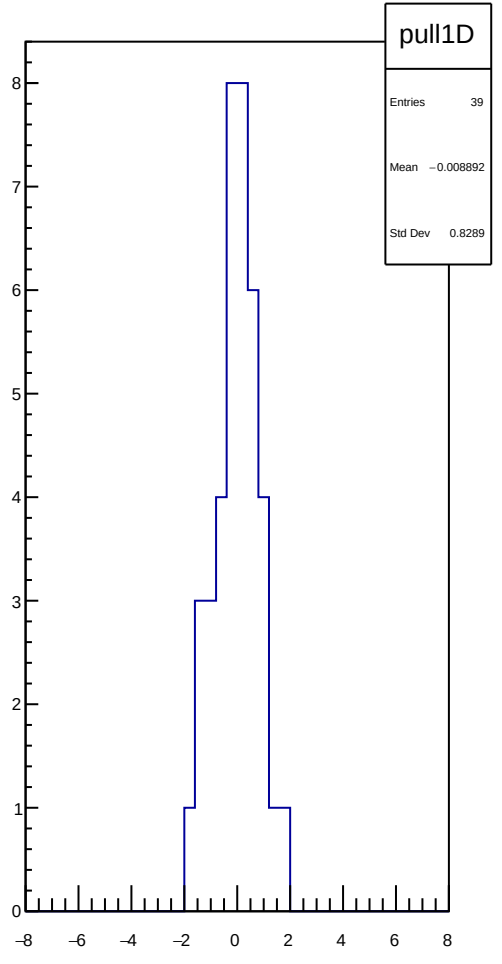

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.562e+04 / 38
p0 1960 ± 2.274
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

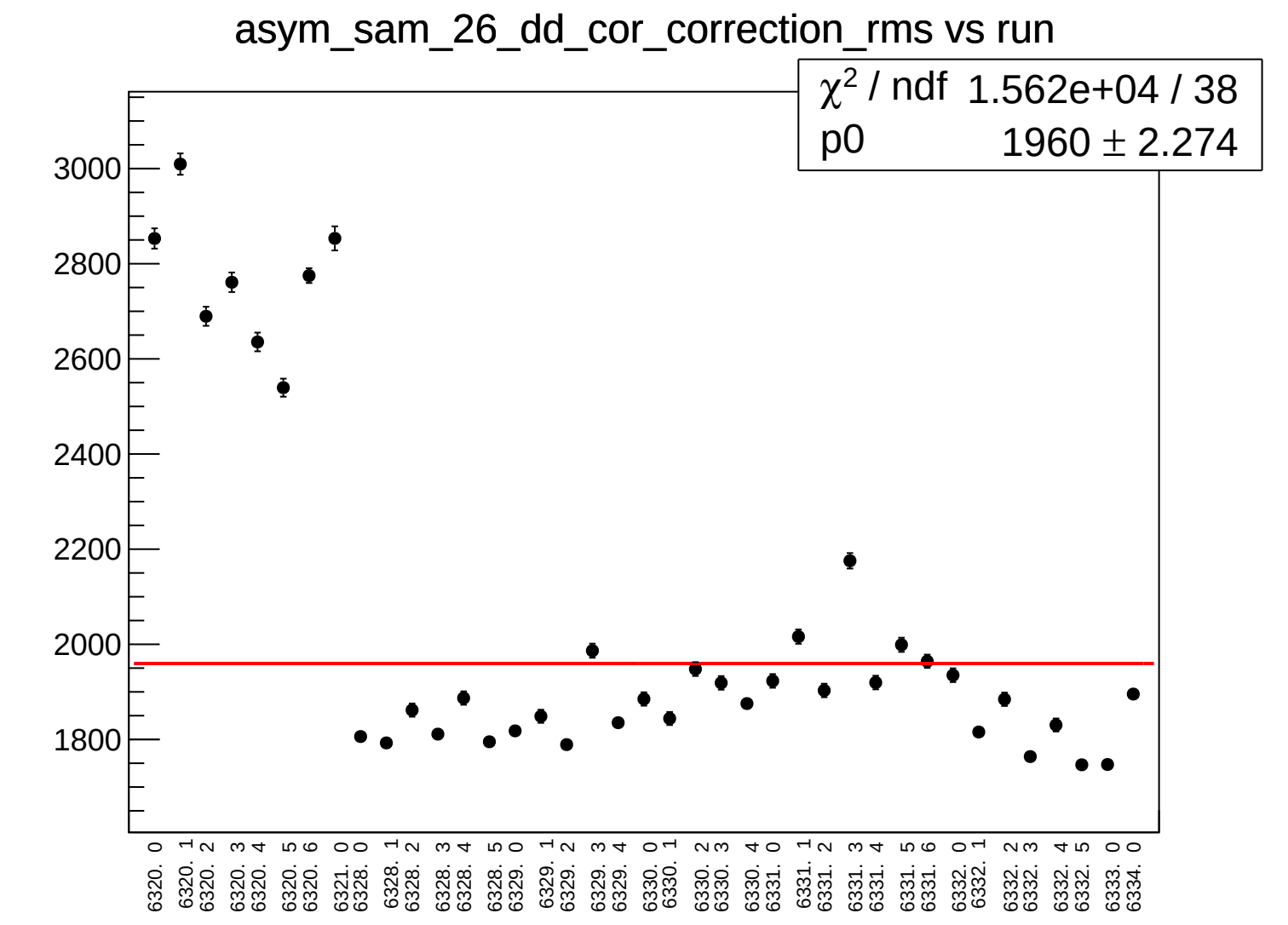

cor_asym_sam_26_dd_mean vs run
χ² / ndf 39.52 / 38
p0 −234.2 ± 312.3
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 385.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

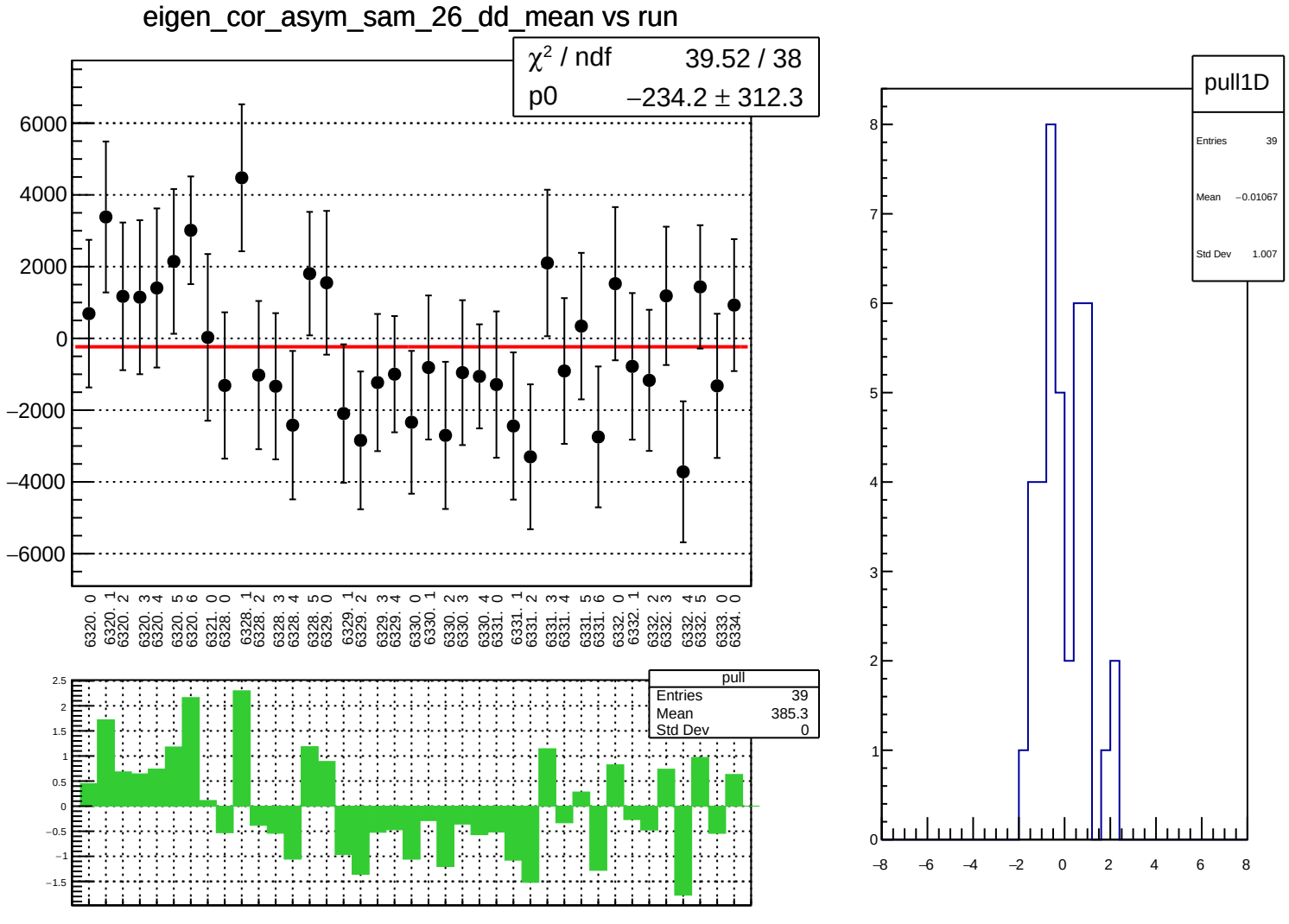

pull1D
Entries 39
Mean −0.01067
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

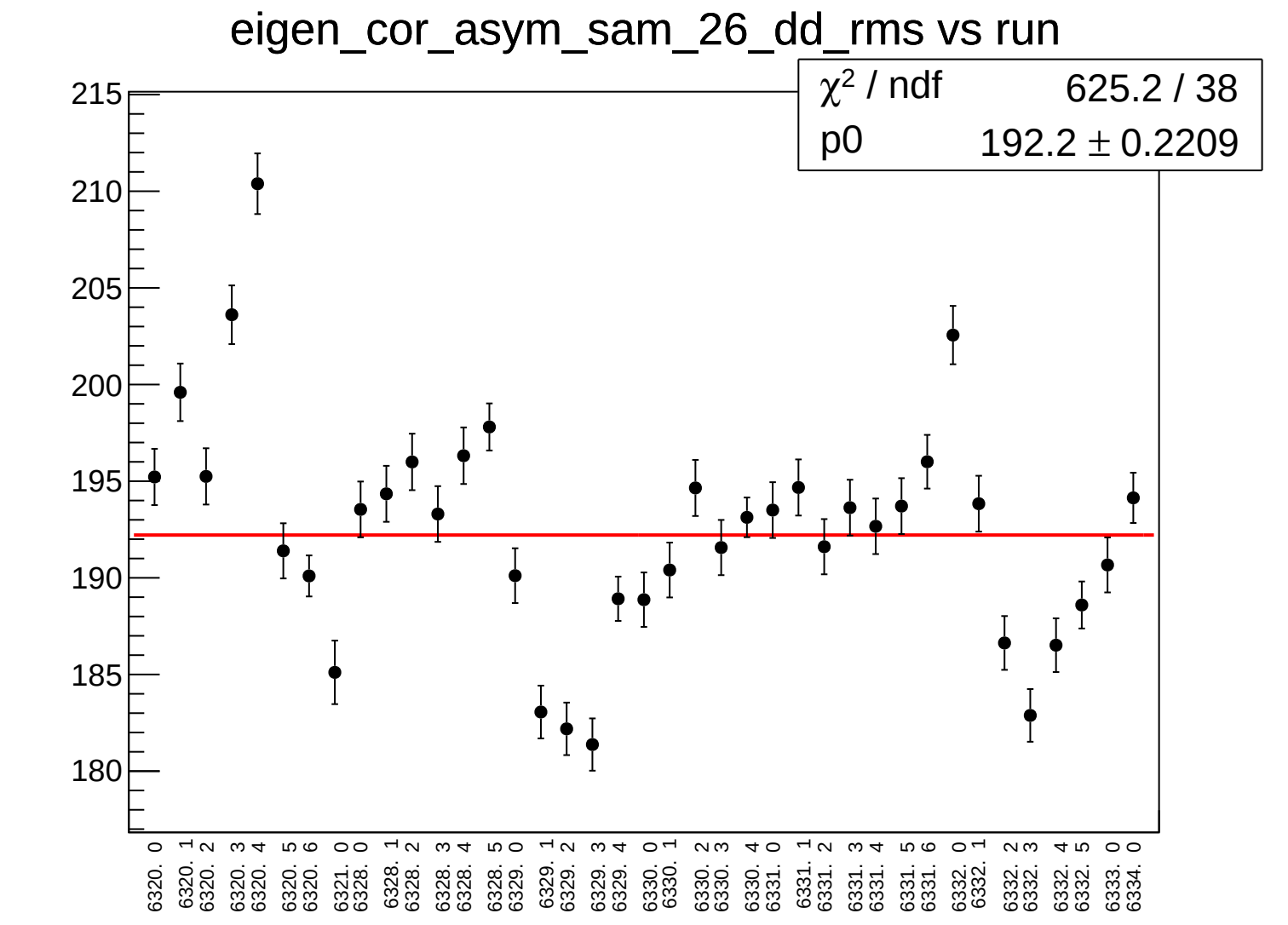

cor_asym_sam_26_dd_rms vs run
χ² / ndf 625.2 / 38
p0 192.2 ± 0.2209
215
210
205
200
195
190
185
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

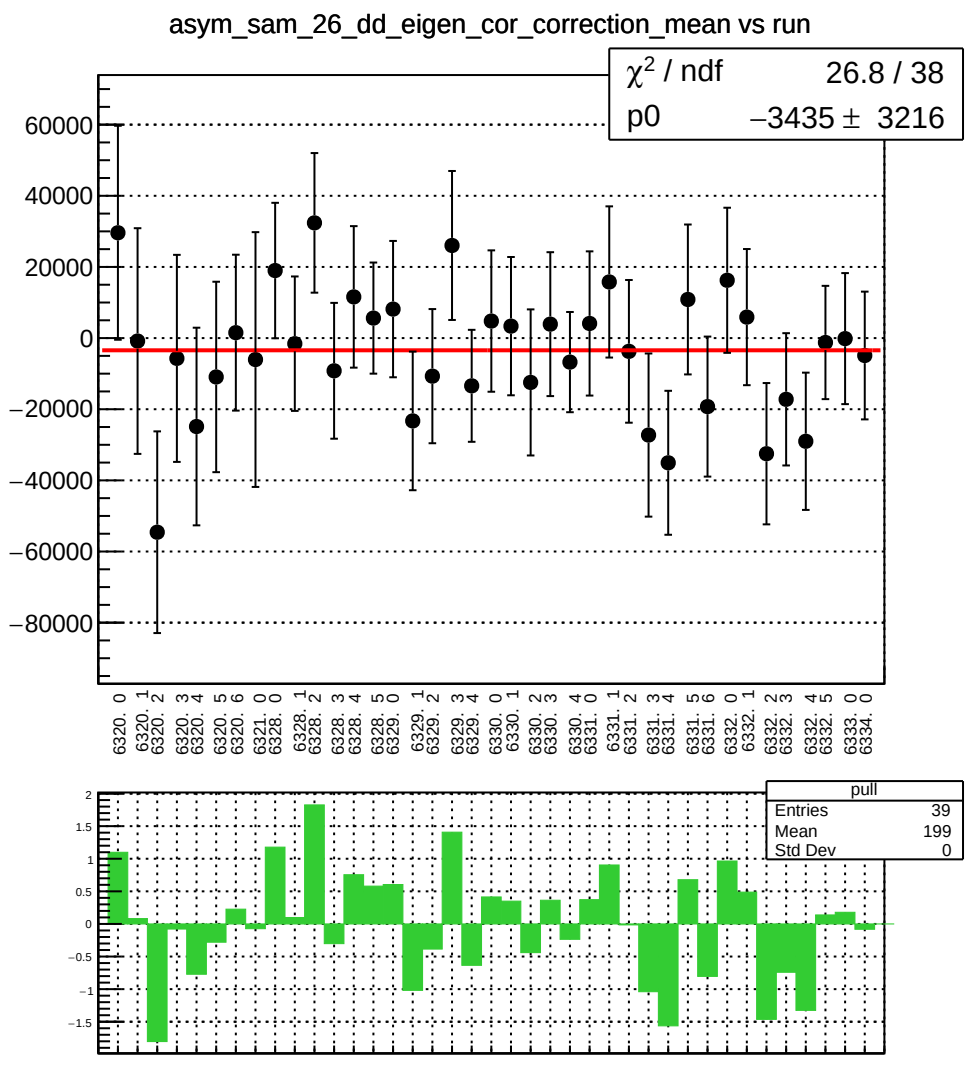

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 26.8 / 38
p0 −3435 ± 3216
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

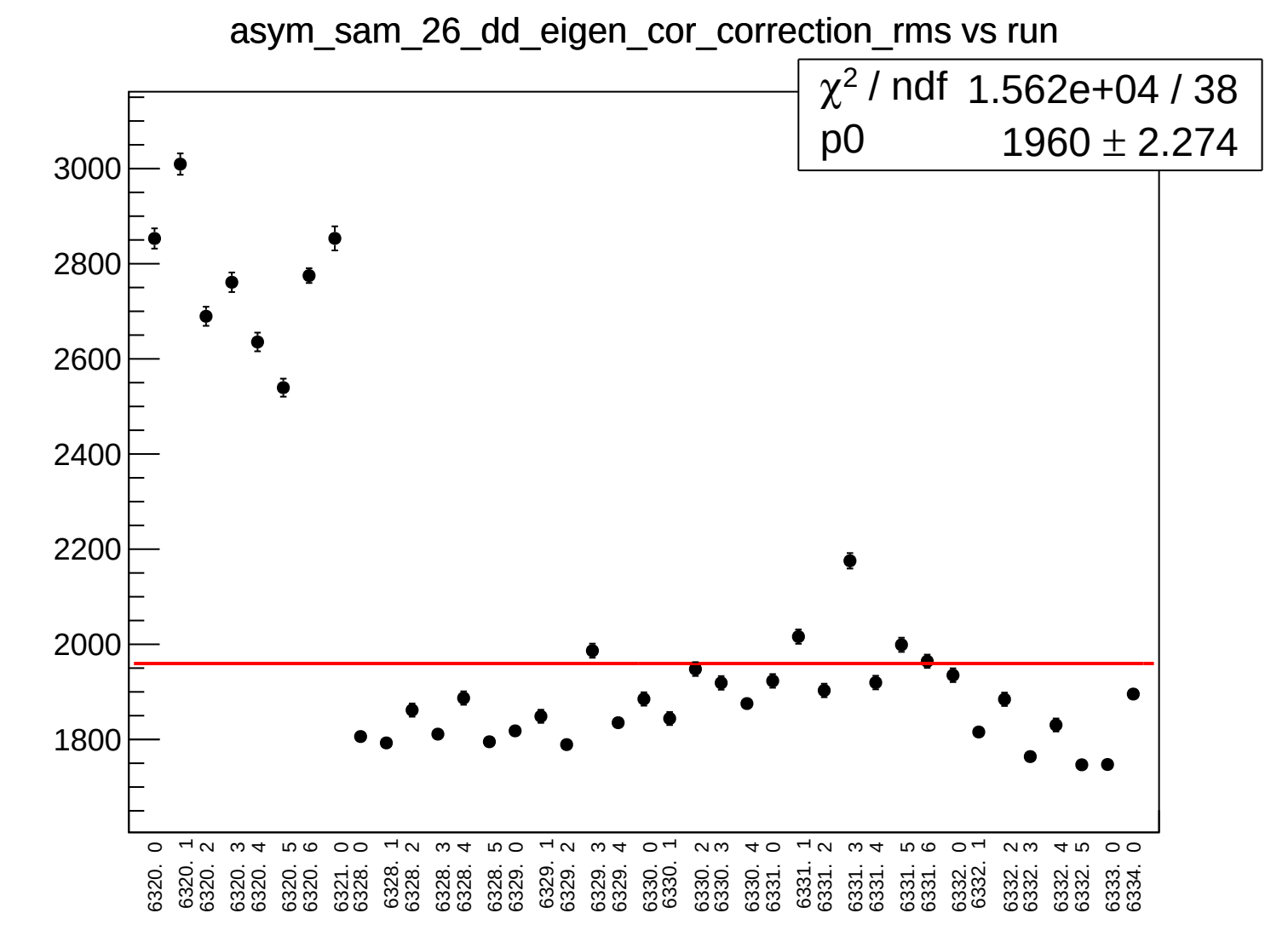

pull1D
Entries 39
Mean −0.008892
Std Dev 0.8289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

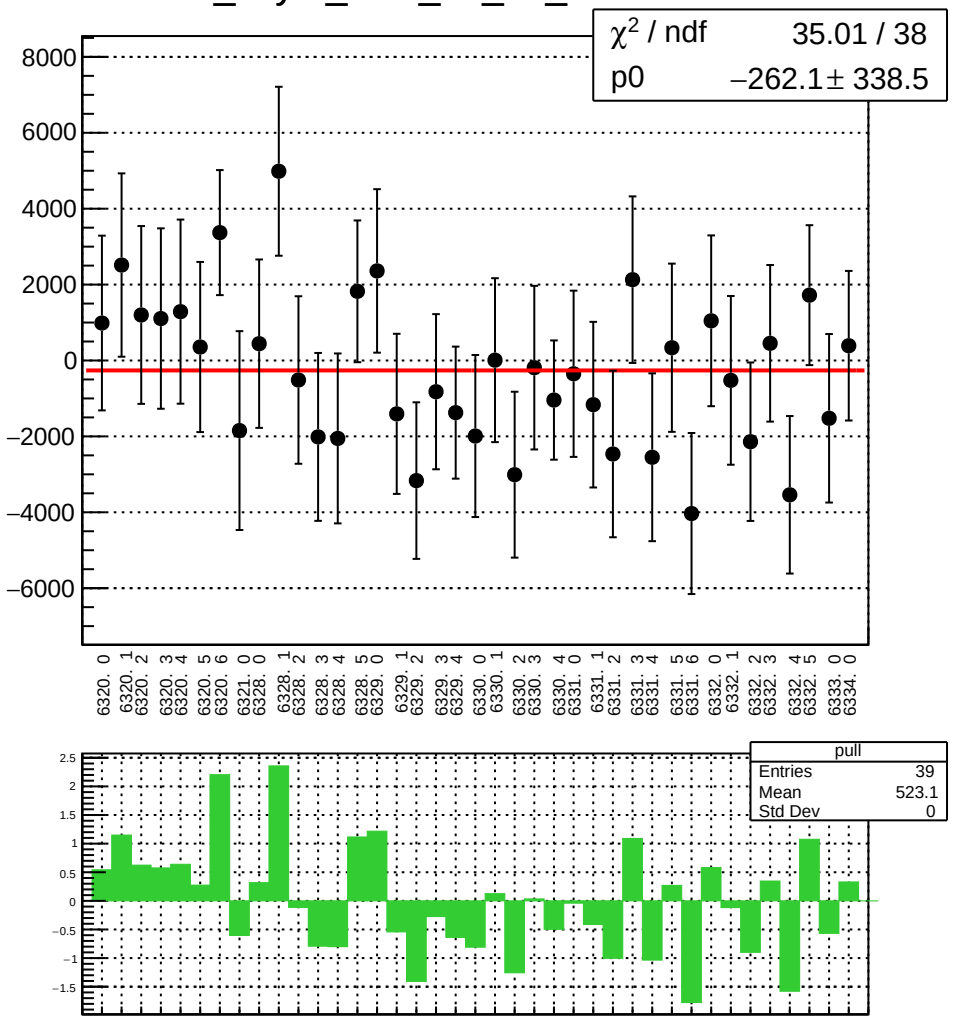

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.562e+04 / 38
p0 1960 ± 2.274
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

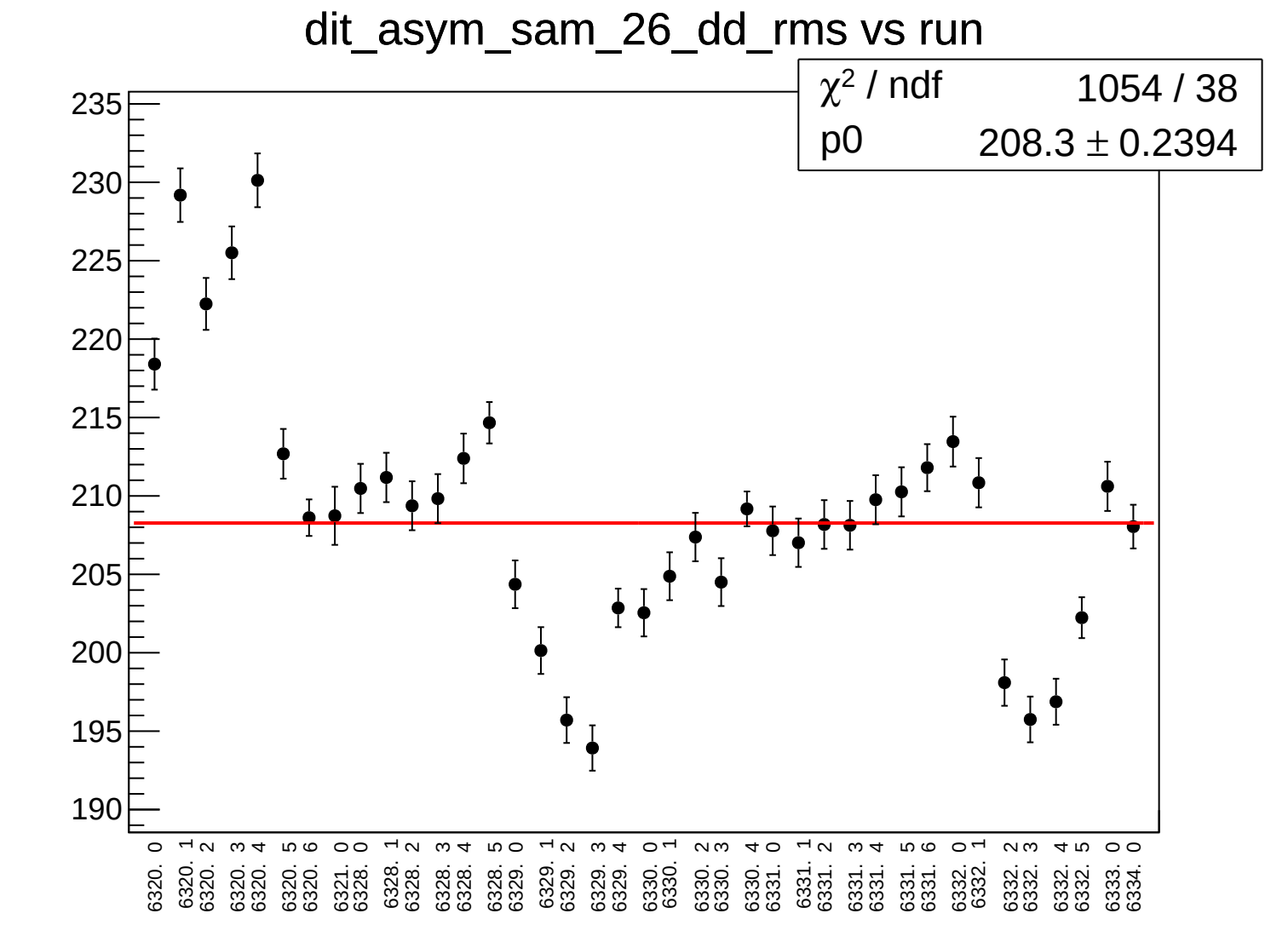

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 39.52 / 38
p0 −234.2 ± 312.3
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 385.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01067
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

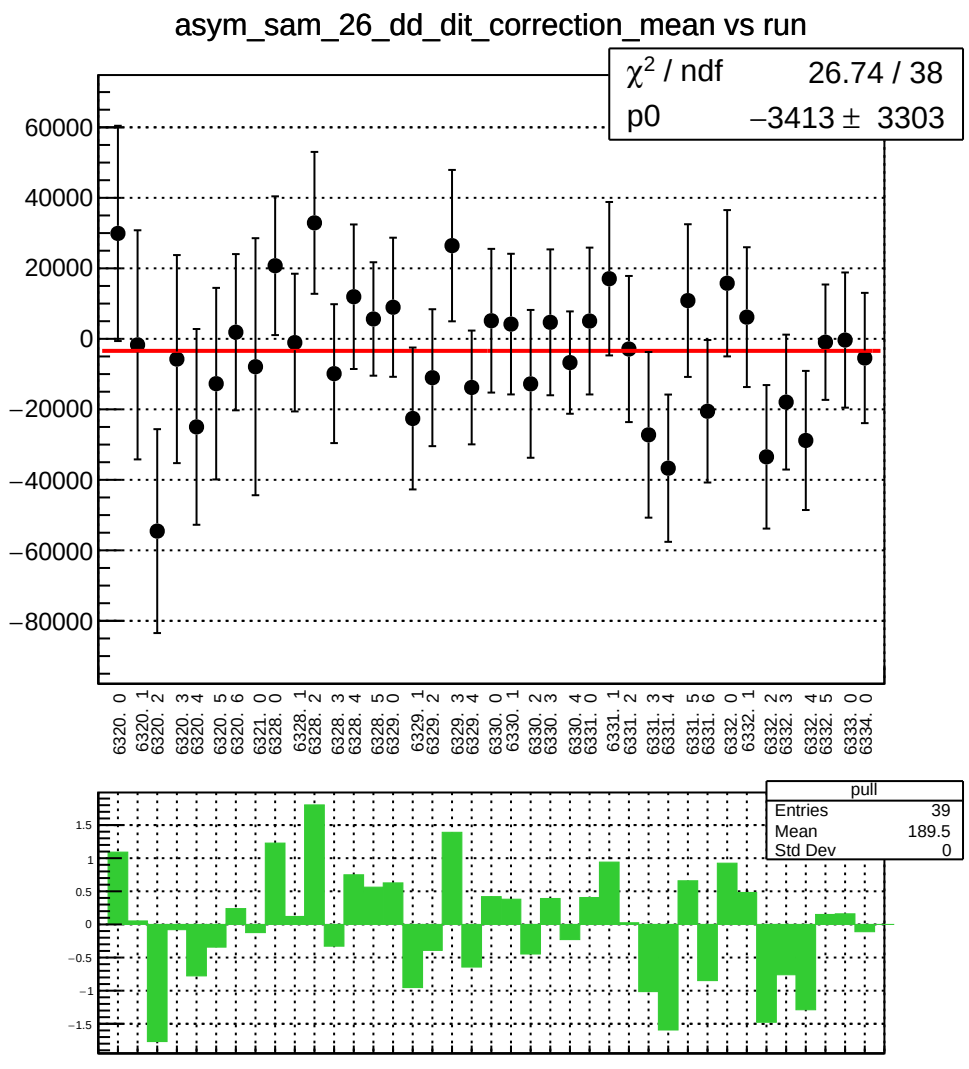

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 625.2 / 38
p0 192.2 ± 0.2209
215
210
205
200
195
190
185
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

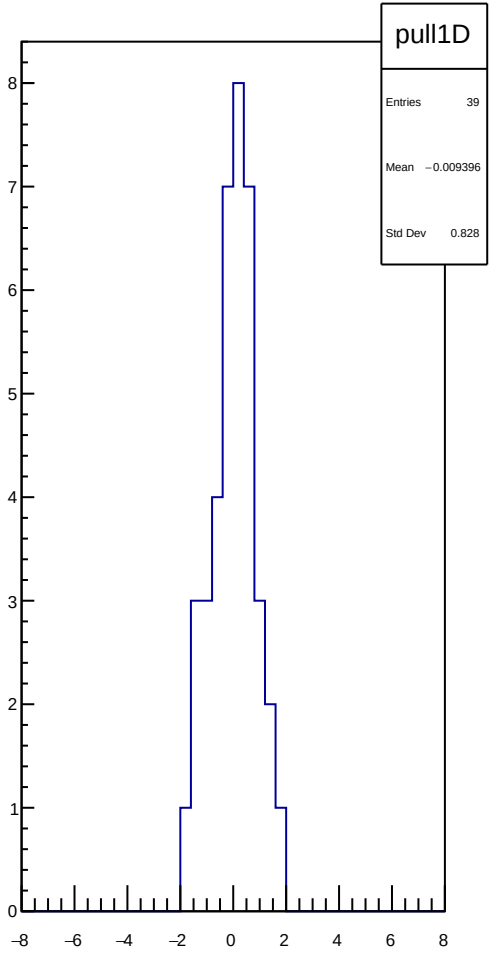

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.8 / 38
p0 −3435 ± 3216
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.008892
Std Dev 0.8289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

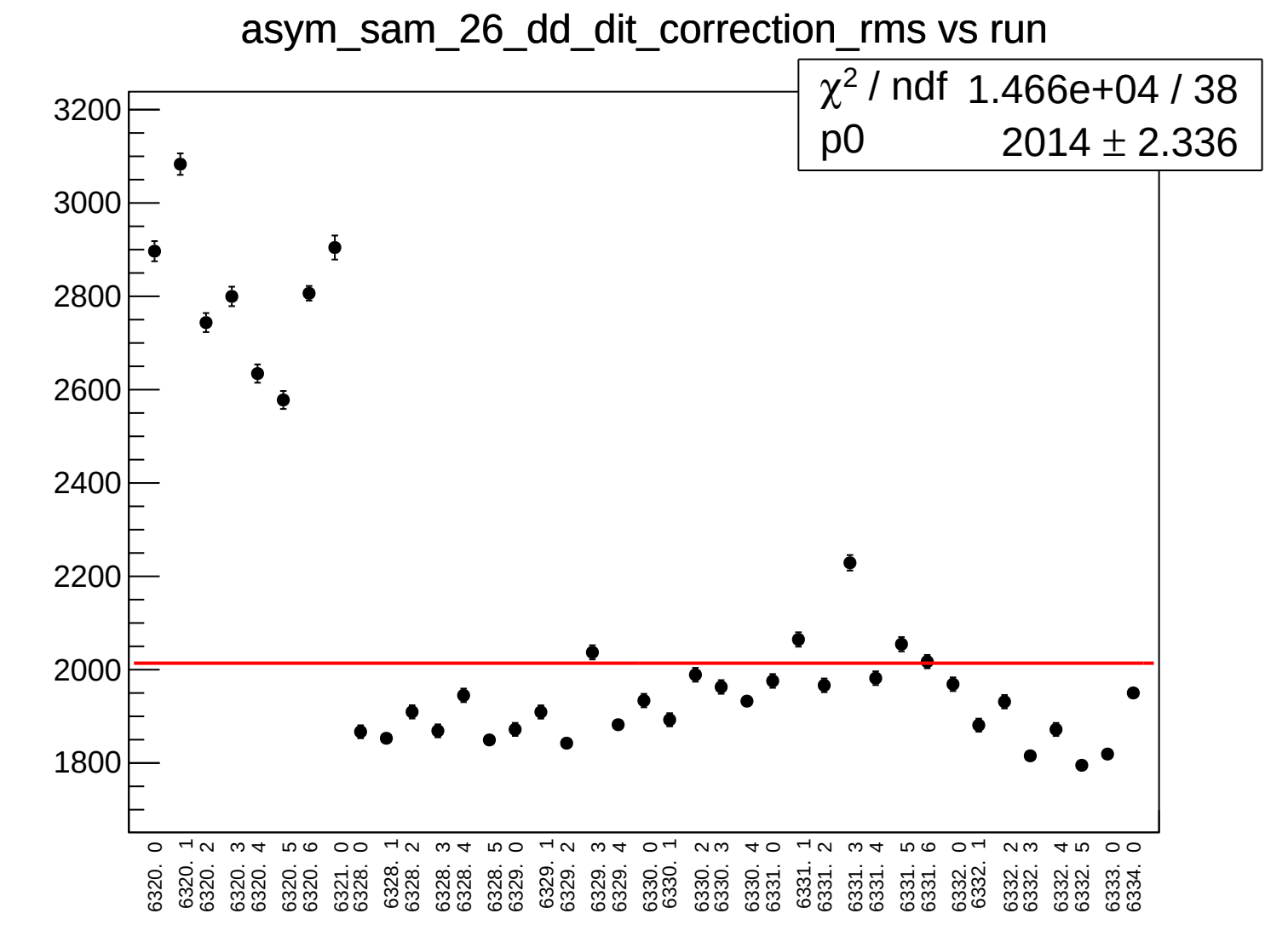

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.562e+04 / 38
p0 1960 ± 2.274
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

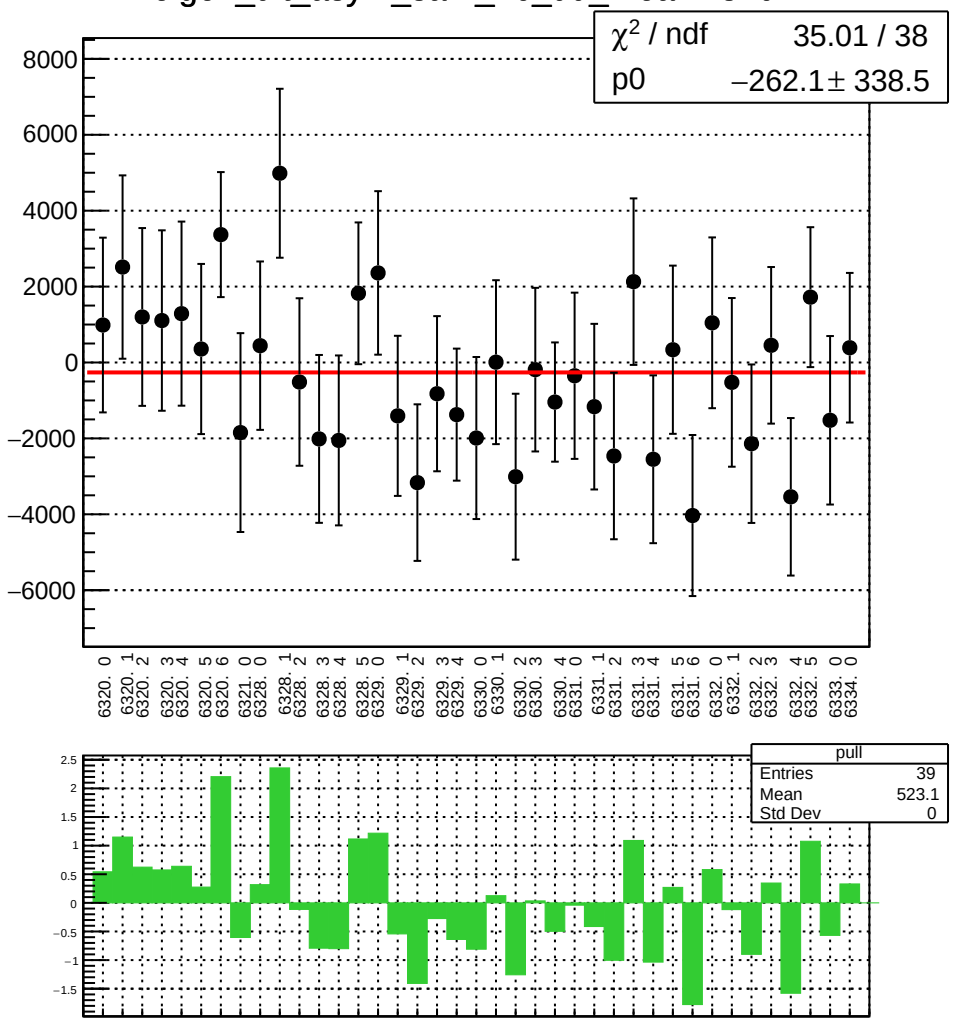

dit_asym_sam_26_dd_mean vs run
χ² / ndf 35.01 / 38
p0 −262.1± 338.5
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 523.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0076
Std Dev 0.9474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

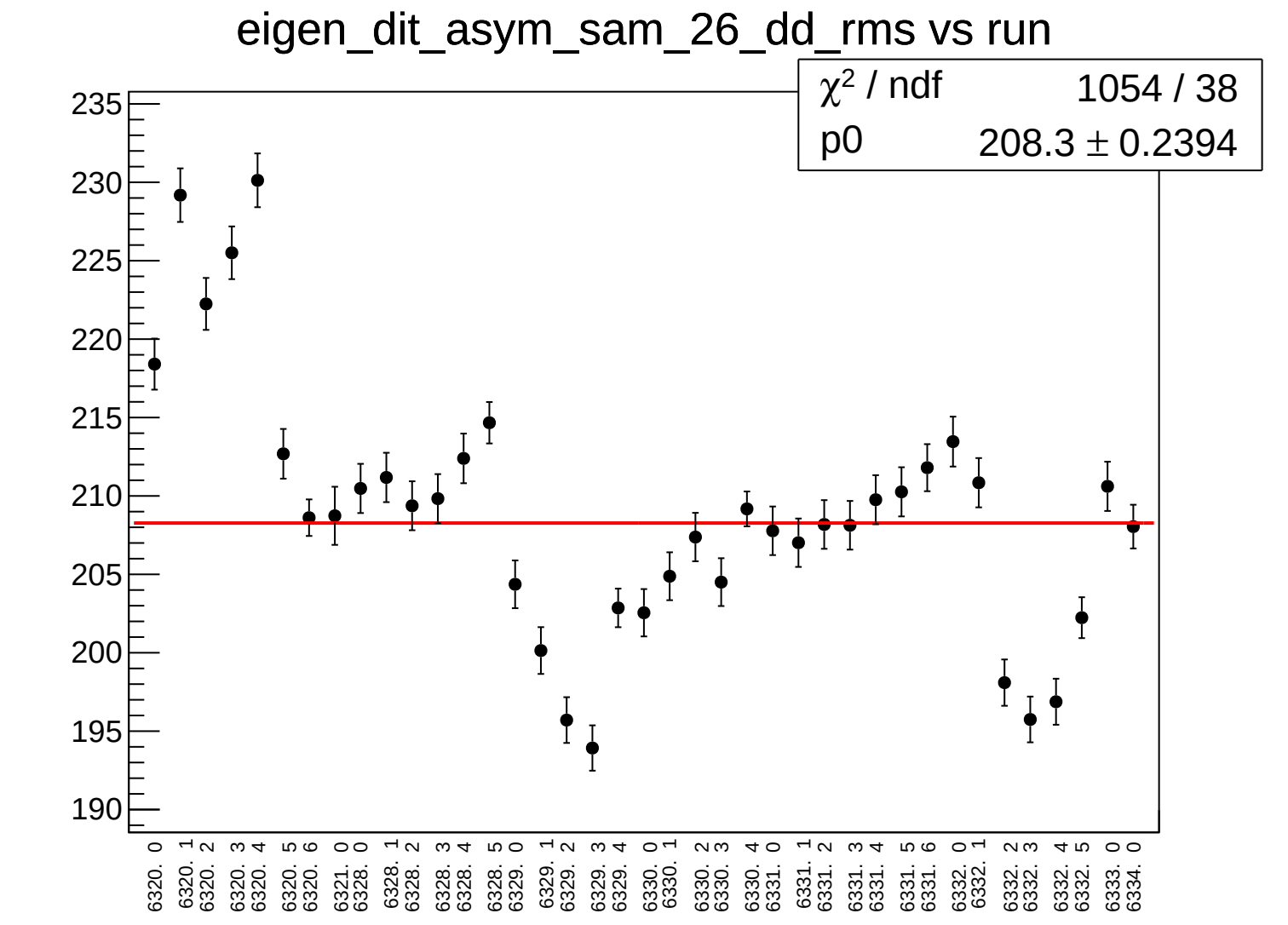

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1054 / 38
p0 208.3 ± 0.2394
235
230
225
220
215
210
205
200
195
190
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

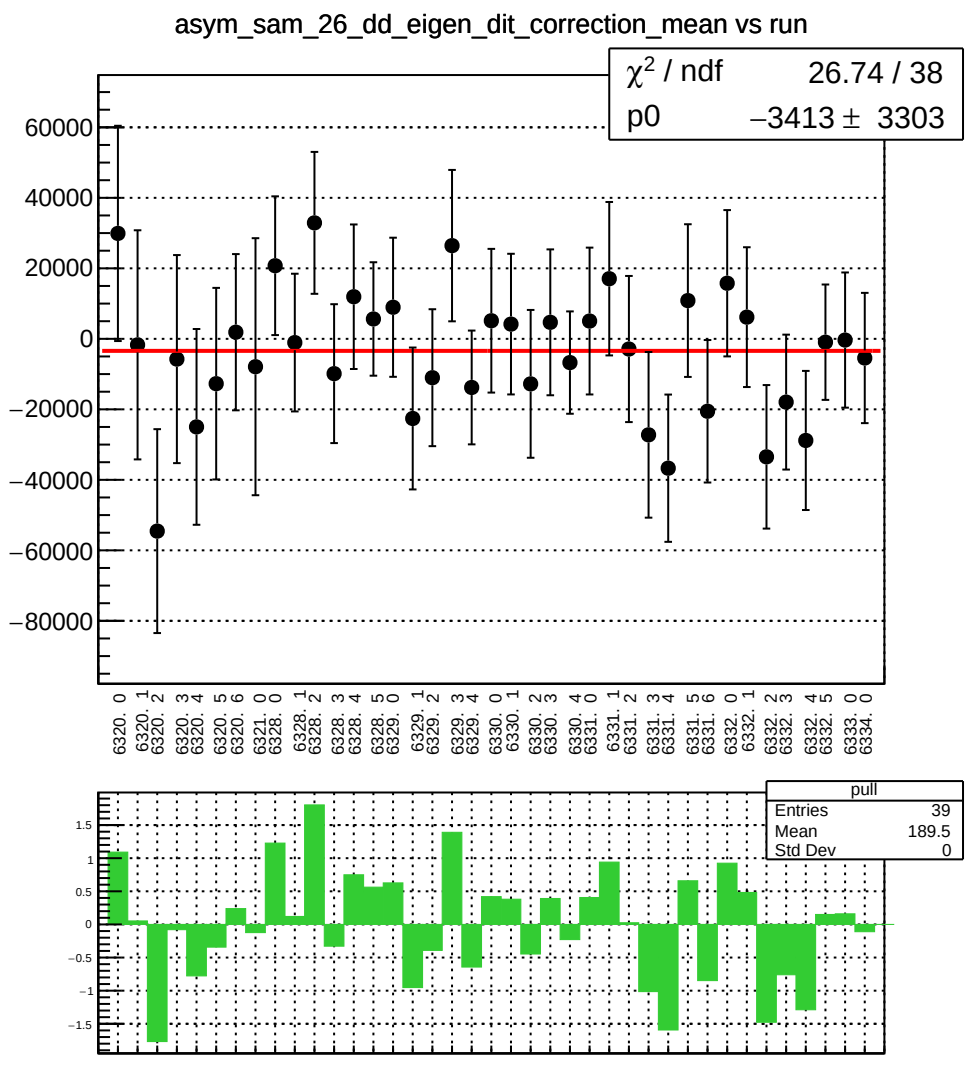

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 26.74 / 38
p0 −3413 ± 3303
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 189.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

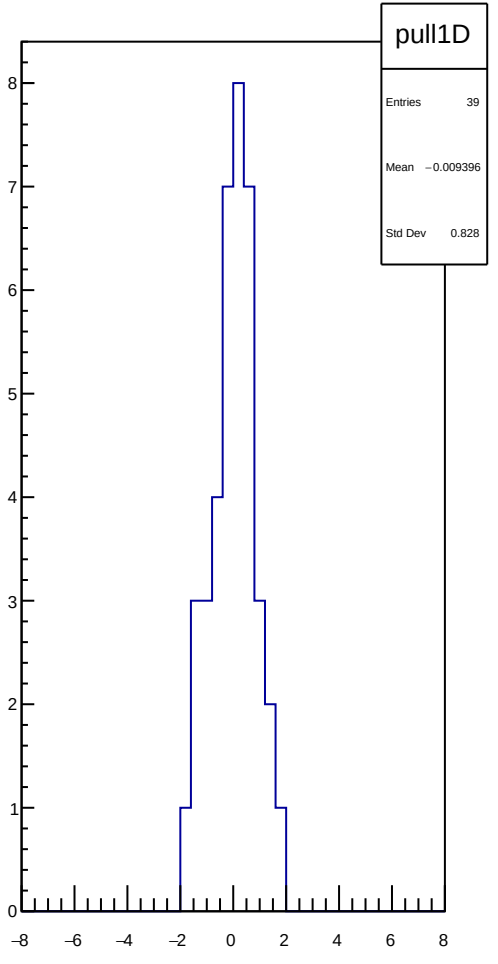

pull1D
Entries 39
Mean −0.009396
Std Dev 0.828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

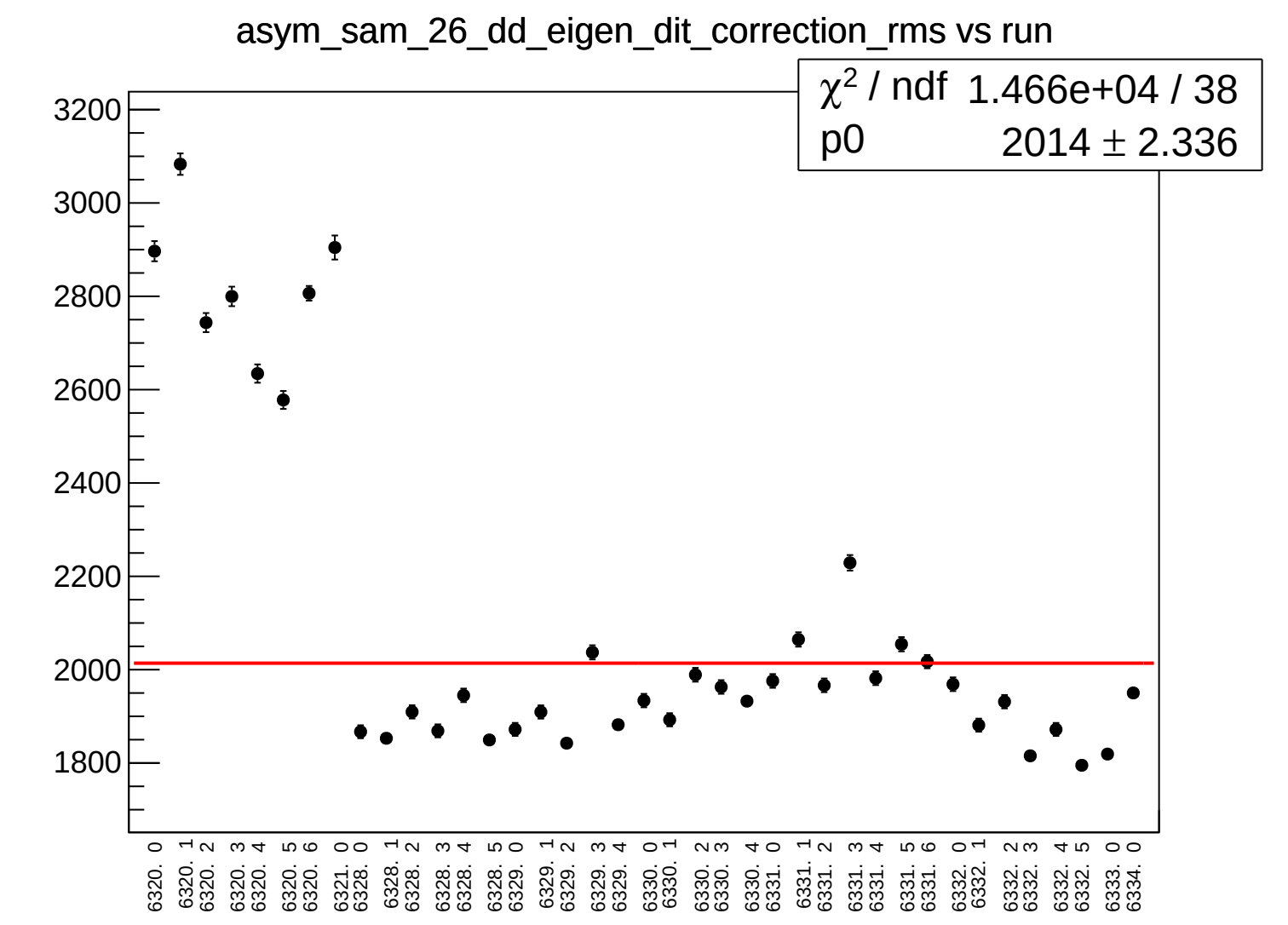

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.466e+04 / 38
p0 2014 ± 2.336
3200
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

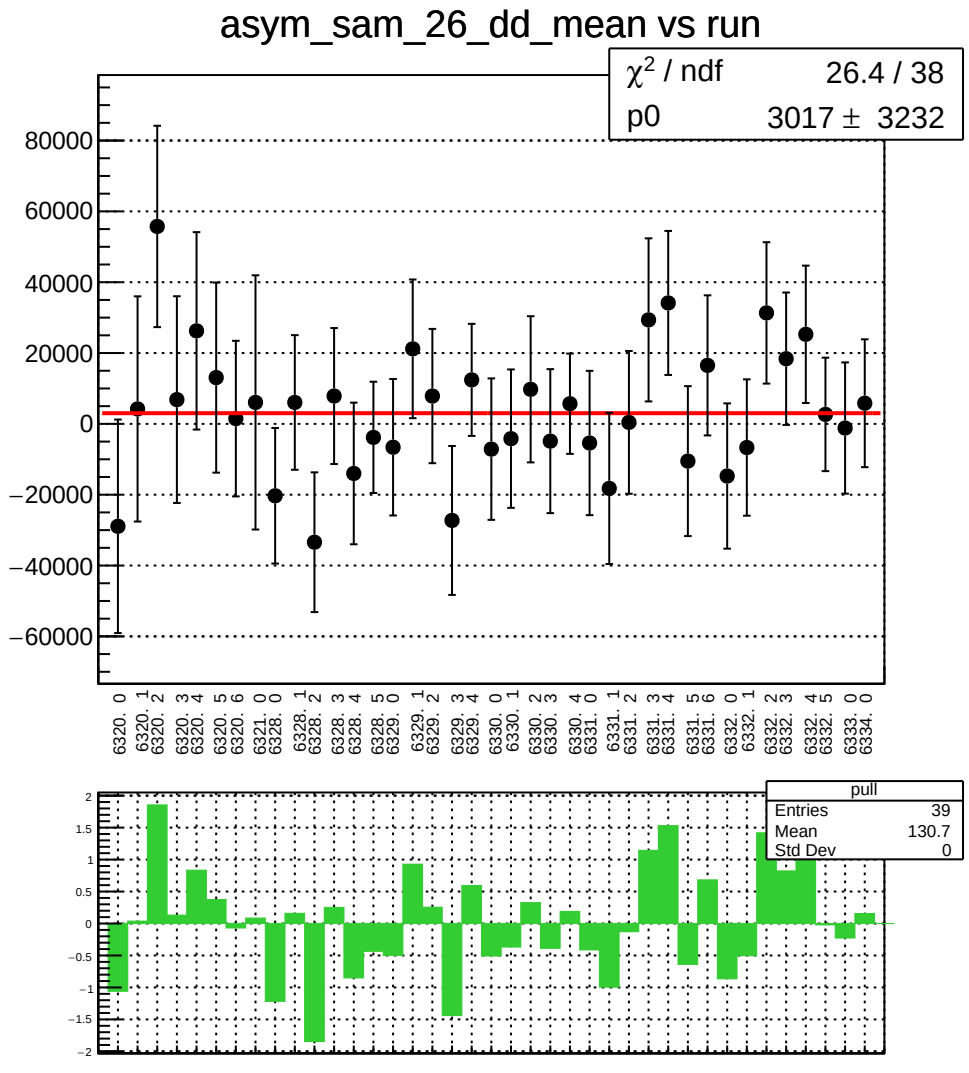

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 35.01 / 38
p0 −262.1± 338.5
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 523.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0076
Std Dev 0.9474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

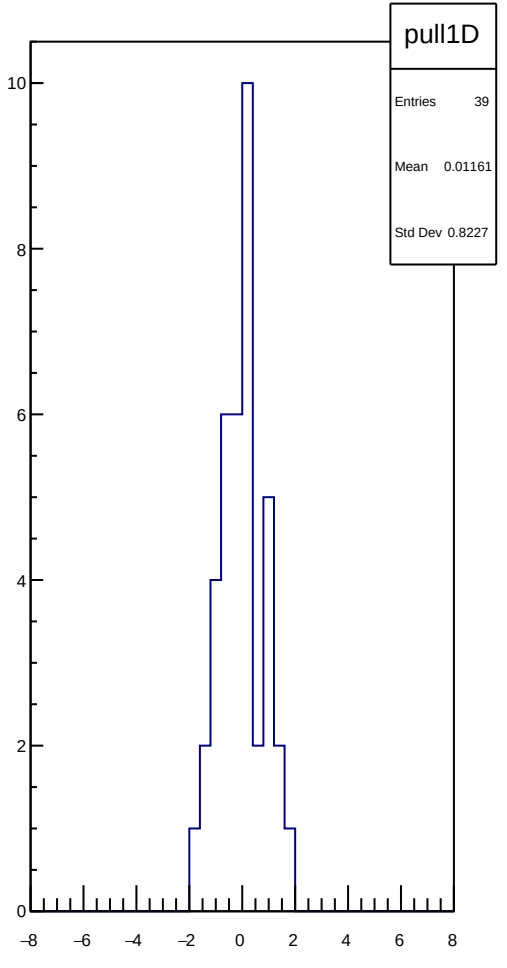

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1054 / 38
p0 208.3 ± 0.2394
235
230
225
220
215
210
205
200
195
190
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

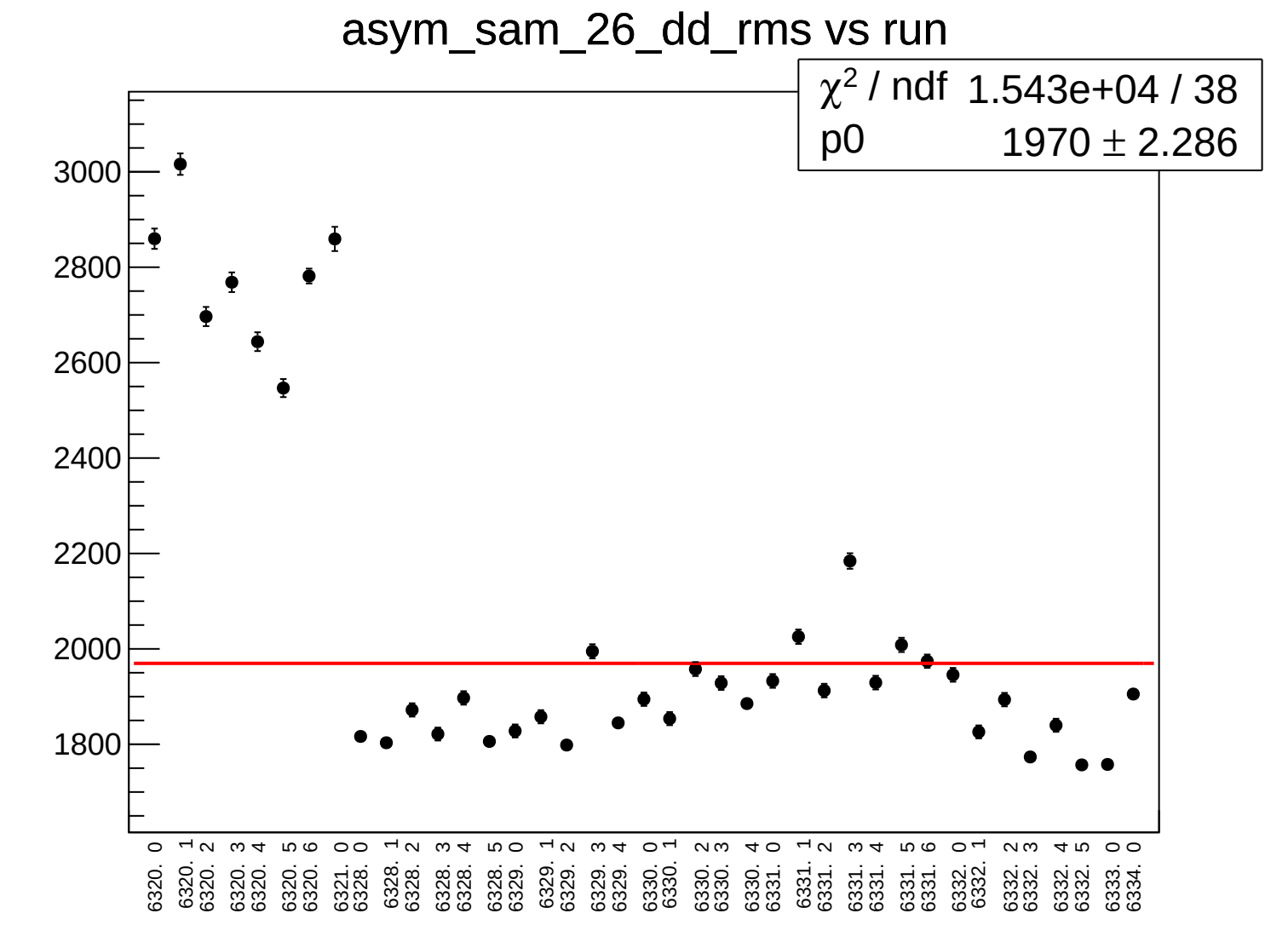

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.74 / 38
p0 −3413 ± 3303
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 189.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

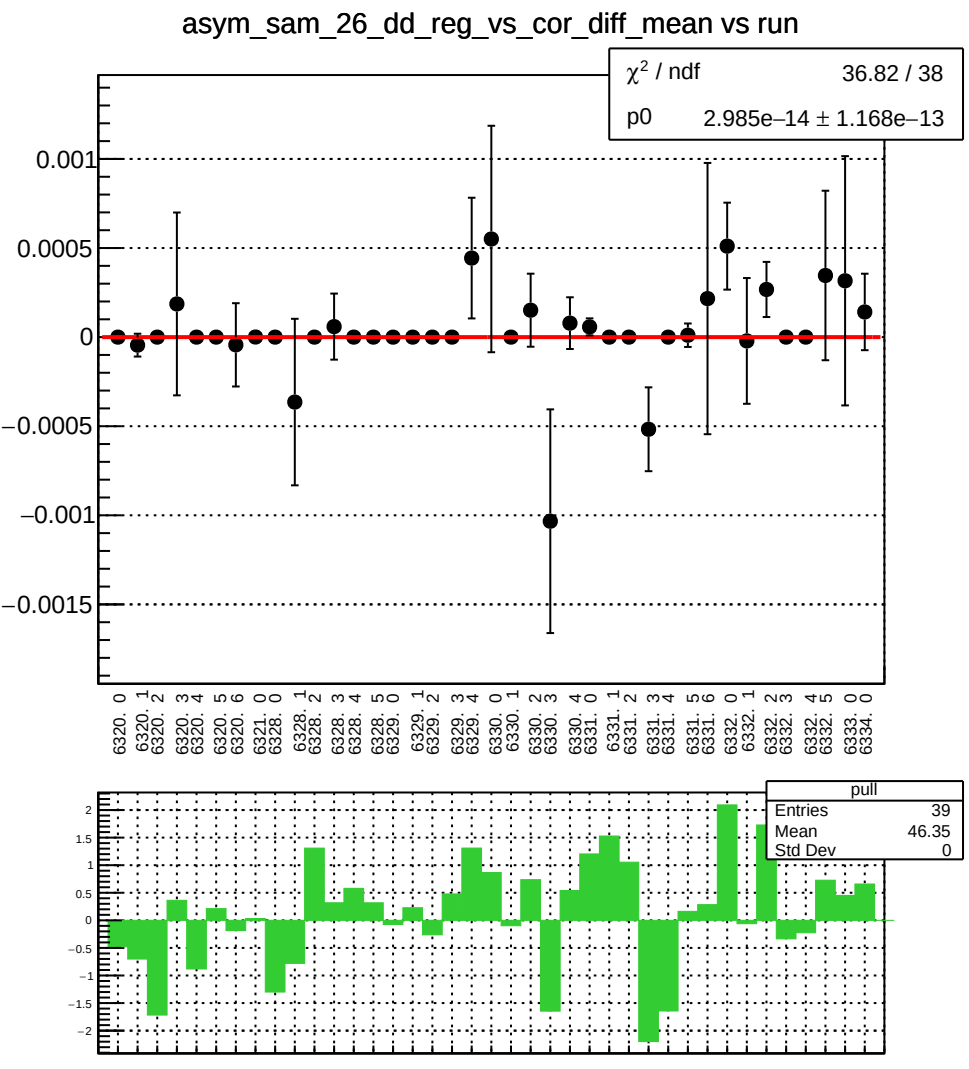

pull1D
Entries 39
Mean −0.009396
Std Dev 0.828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

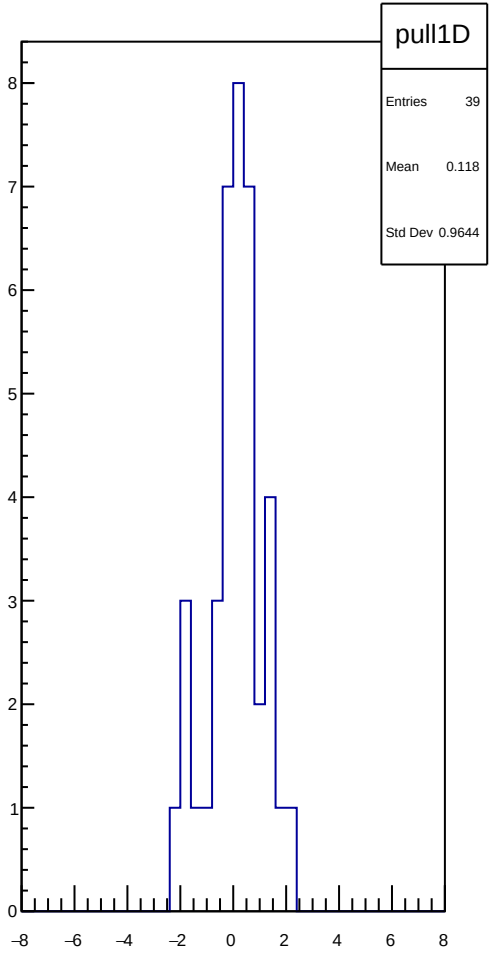

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.466e+04 / 38
p0 2014 ± 2.336
3200
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

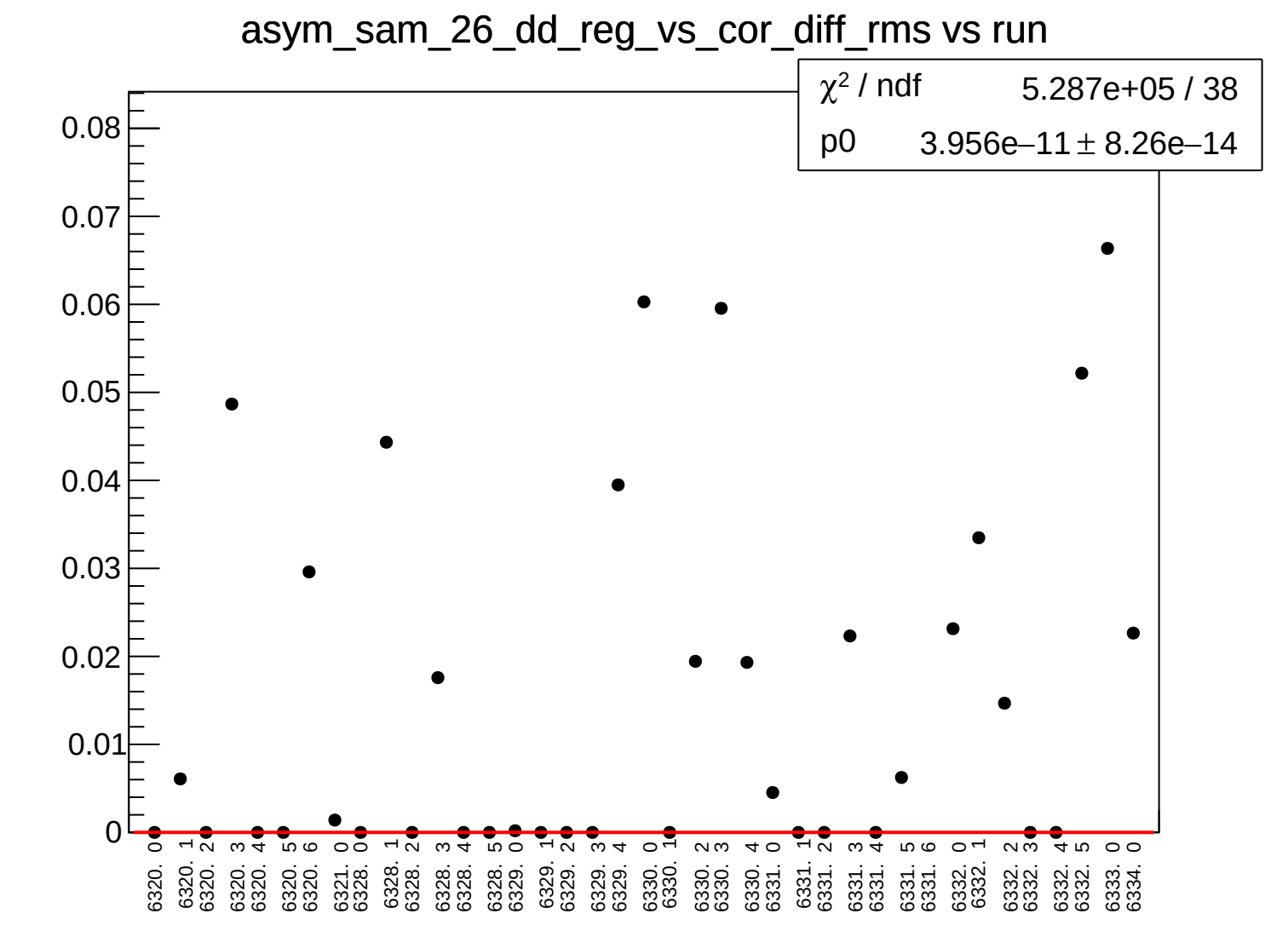

asym_sam_26_dd_mean vs run
χ² / ndf 26.4 / 38
p0 3017 ± 3232
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 130.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

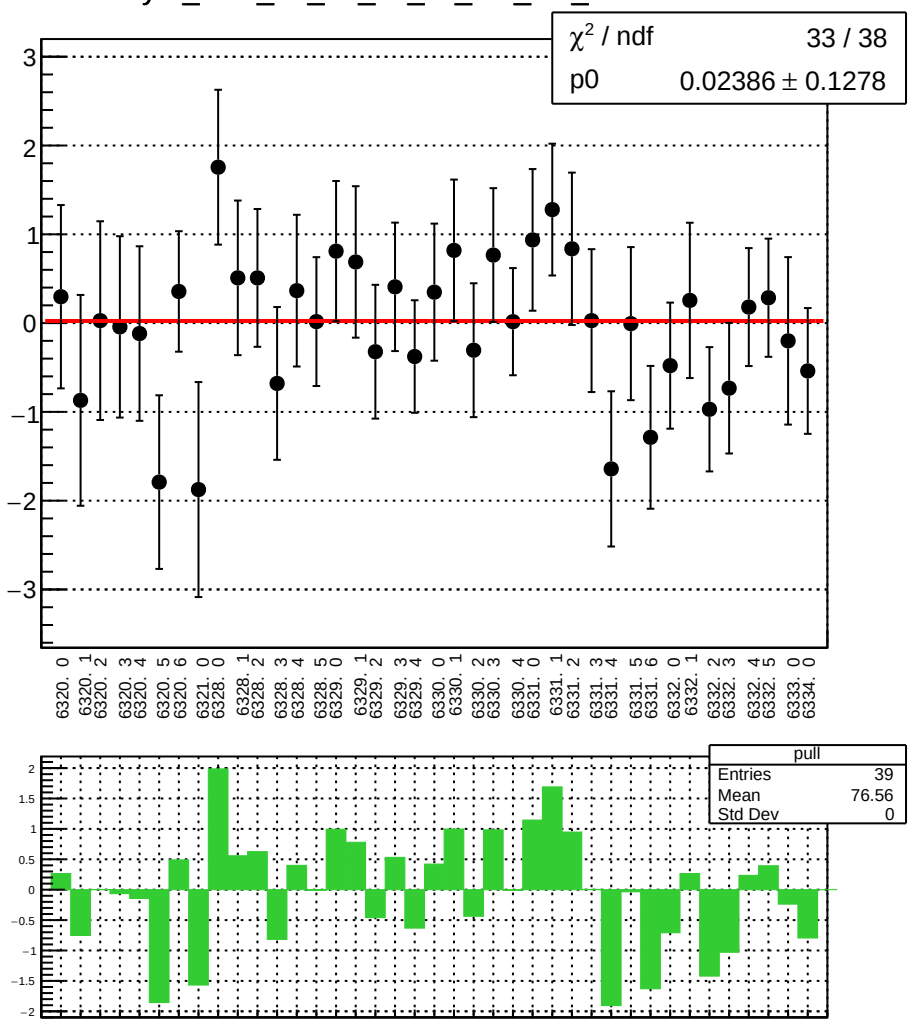

pull1D
Entries 39
Mean 0.01161
Std Dev 0.8227
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

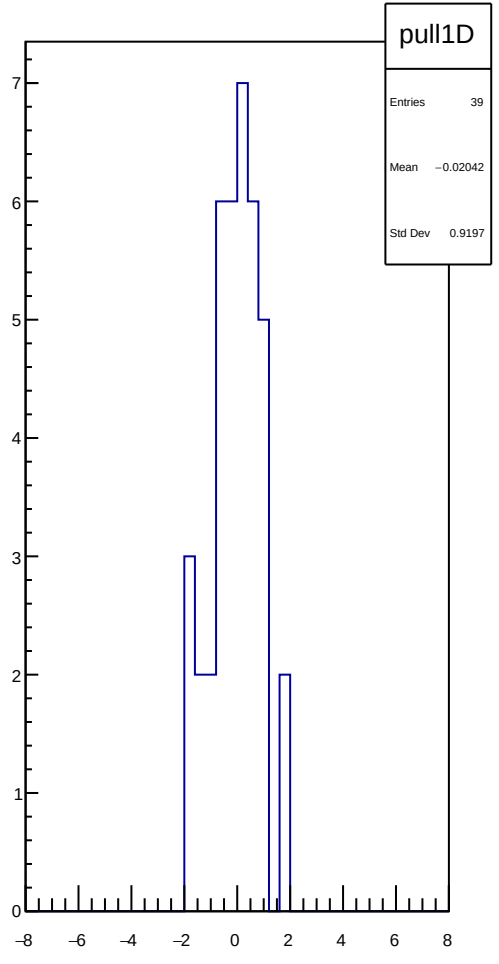

asym_sam_26_dd_rms vs run
χ² / ndf 1.543e+04 / 38
p0 1970 ± 2.286
3000
2800
2600
2400
2200
2000
1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

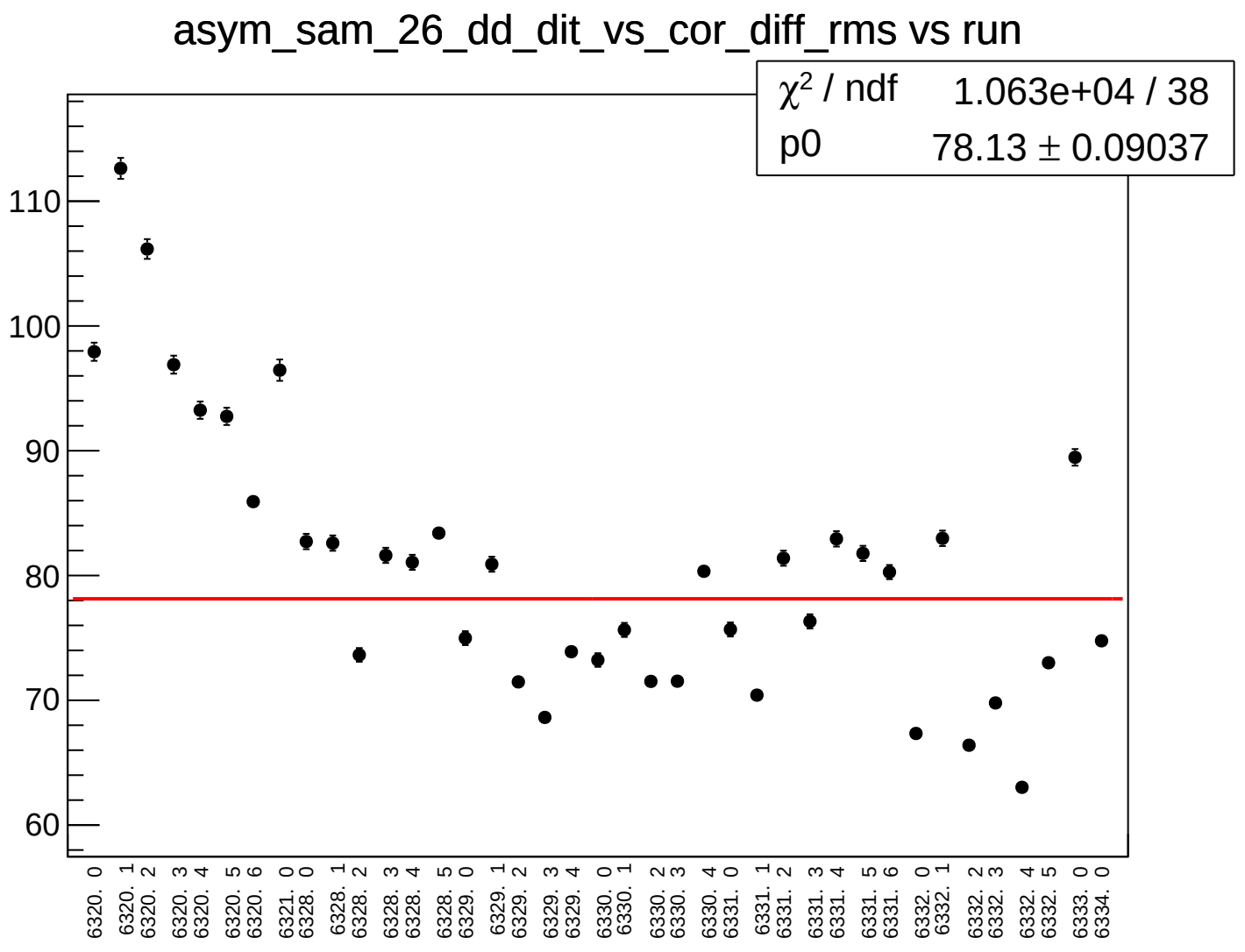

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 36.82 / 38
p0 2.985e−14 ± 1.168e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 46.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

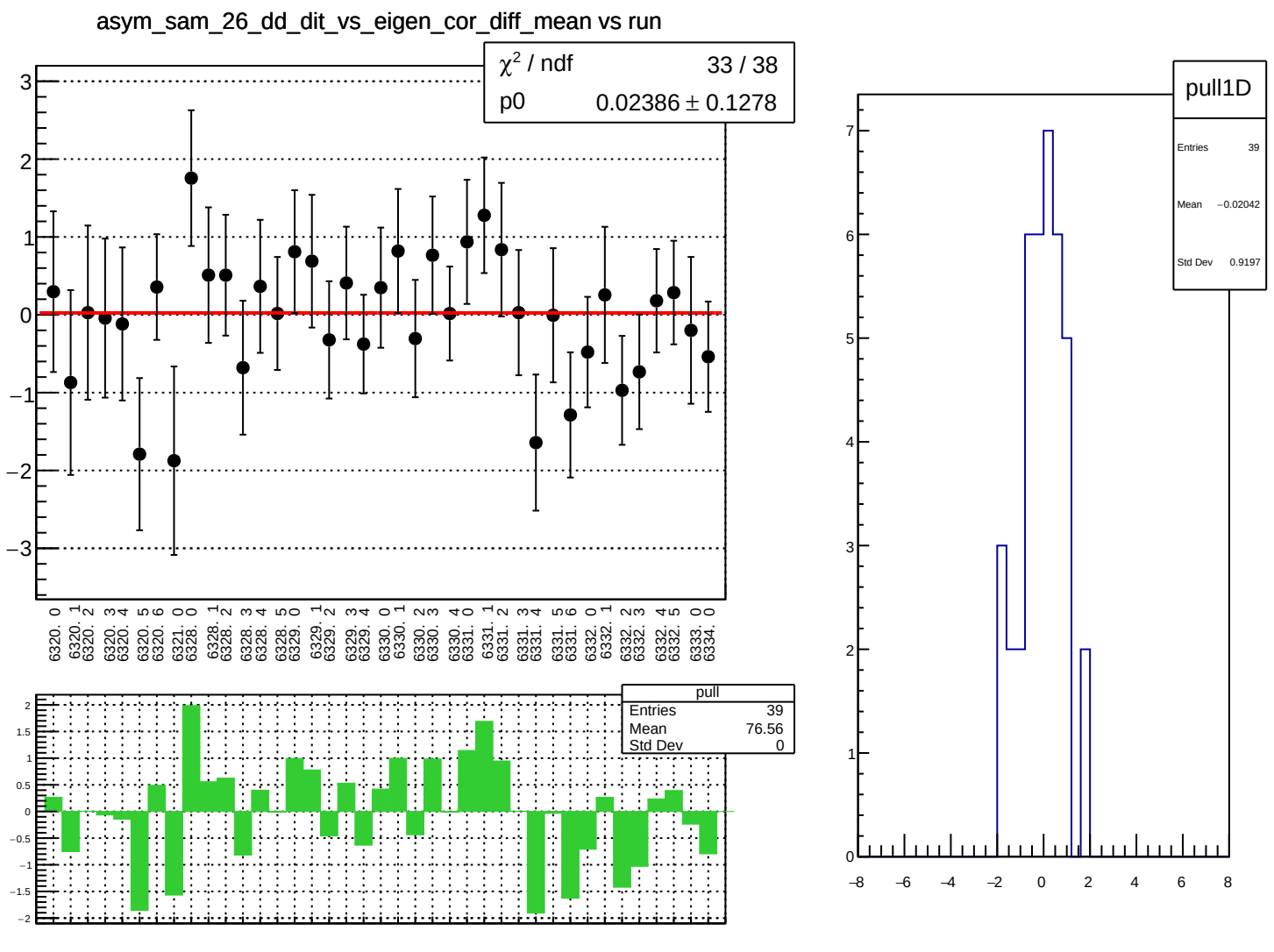

pull1D
Entries 39
Mean 0.118
Std Dev 0.9644
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

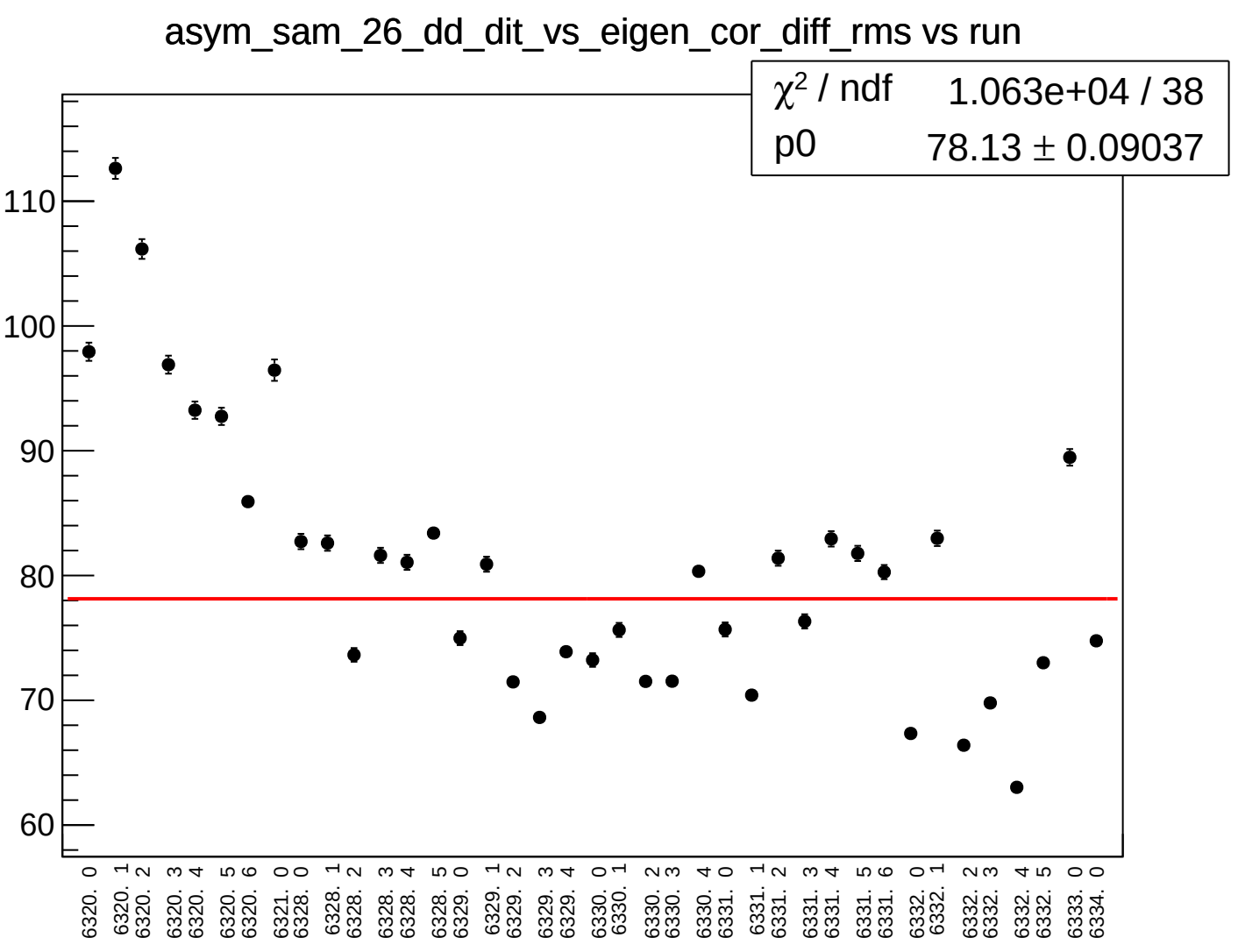

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.287e+05 / 38
p0 3.956e−11 ± 8.26e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

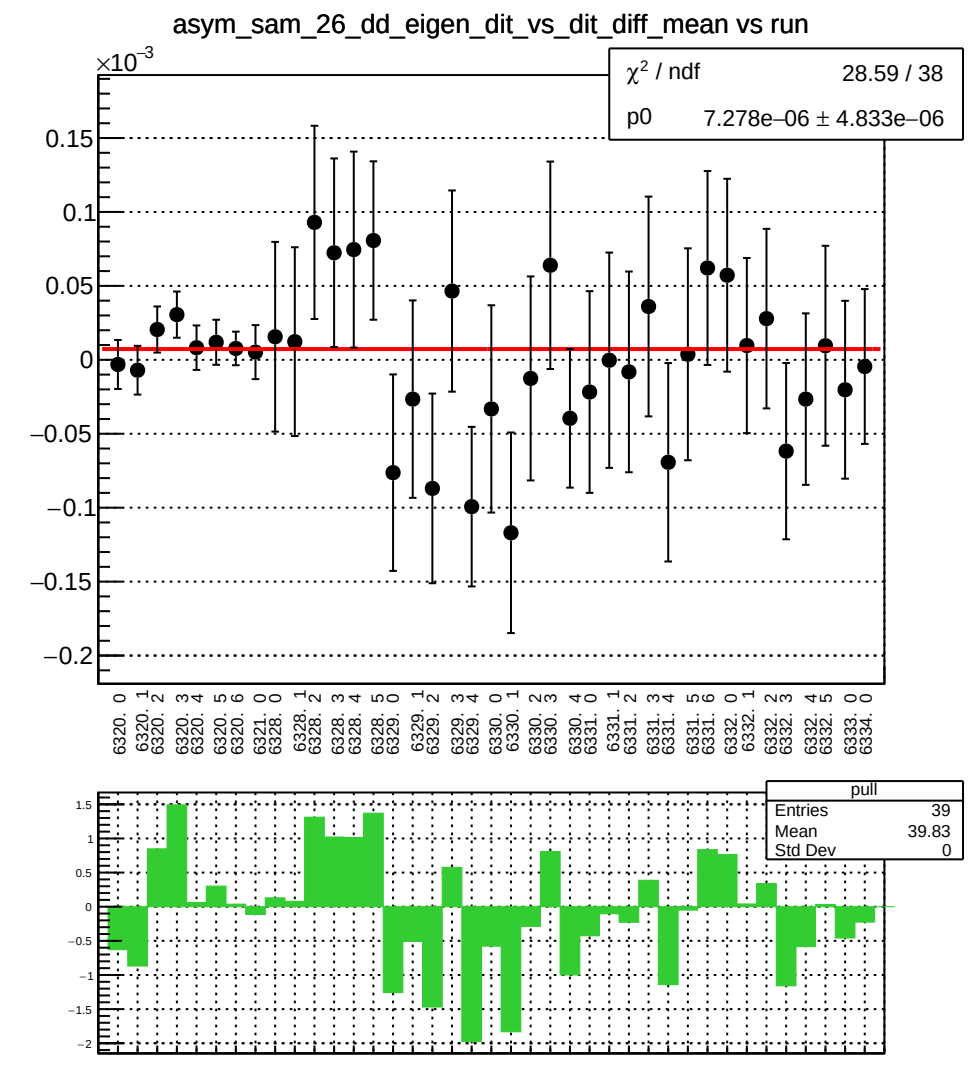

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33 / 38
p0 0.02386 ± 0.1278
pull
Entries 39
Mean 76.56
Std Dev 0

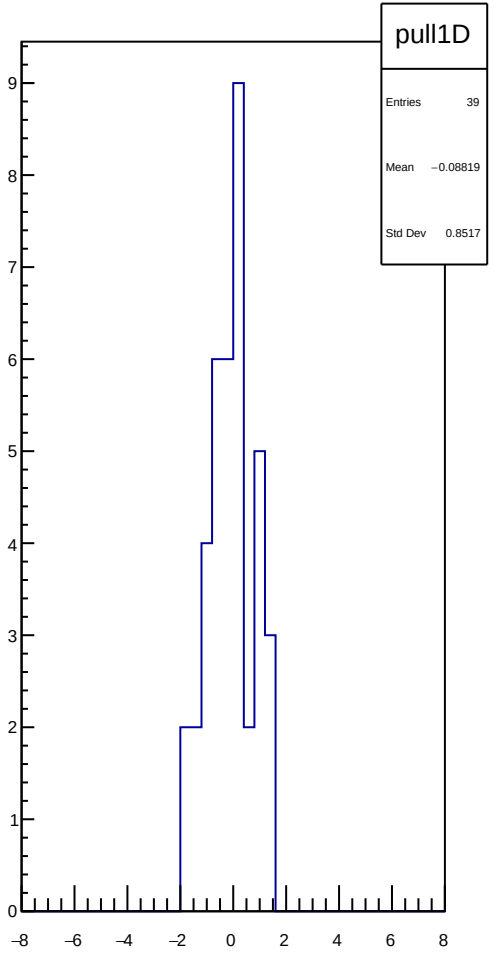

pull1D
Entries 39
Mean −0.02042
Std Dev 0.9197

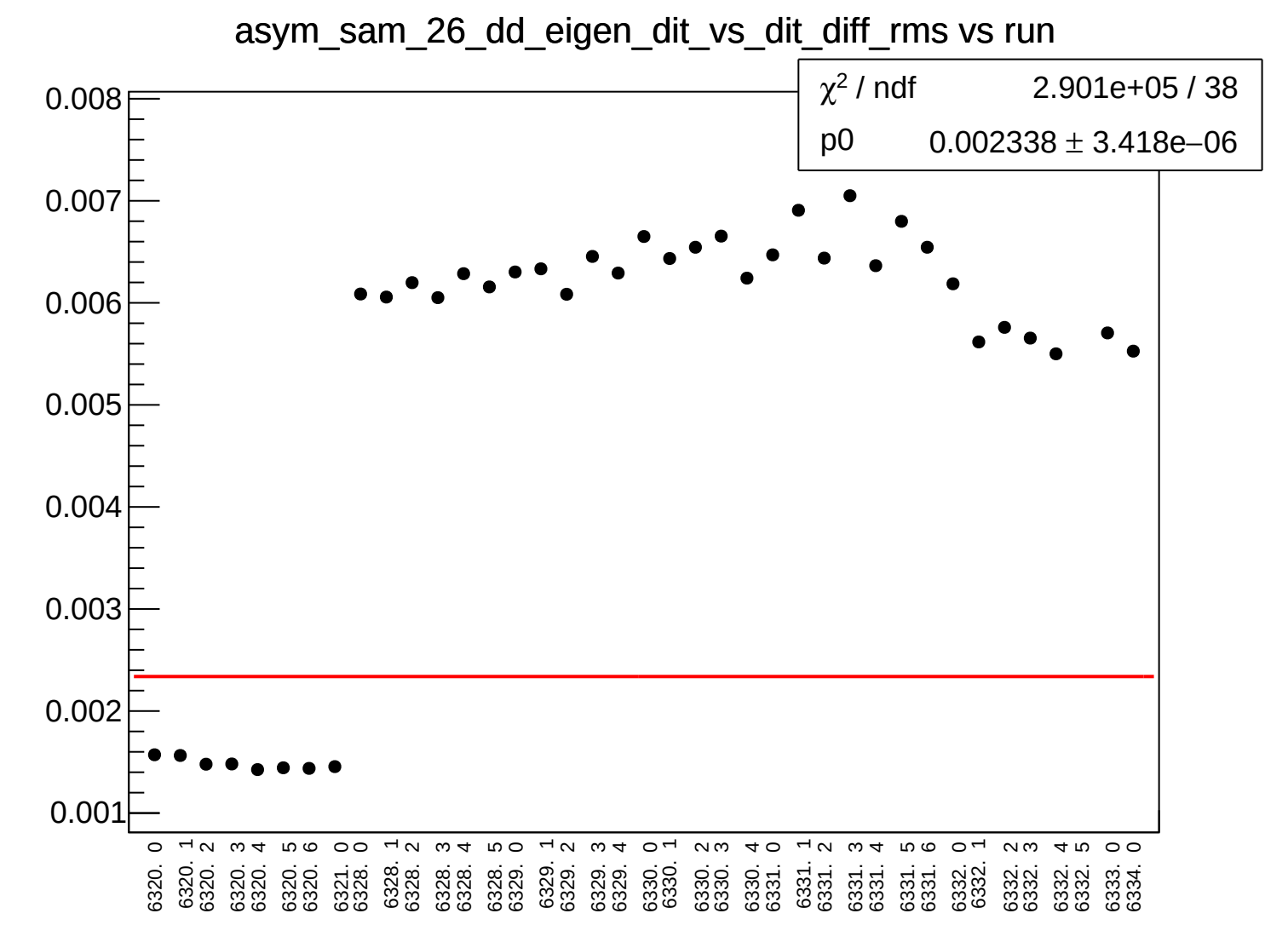

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+04 / 38
p0 78.13 ± 0.09037
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

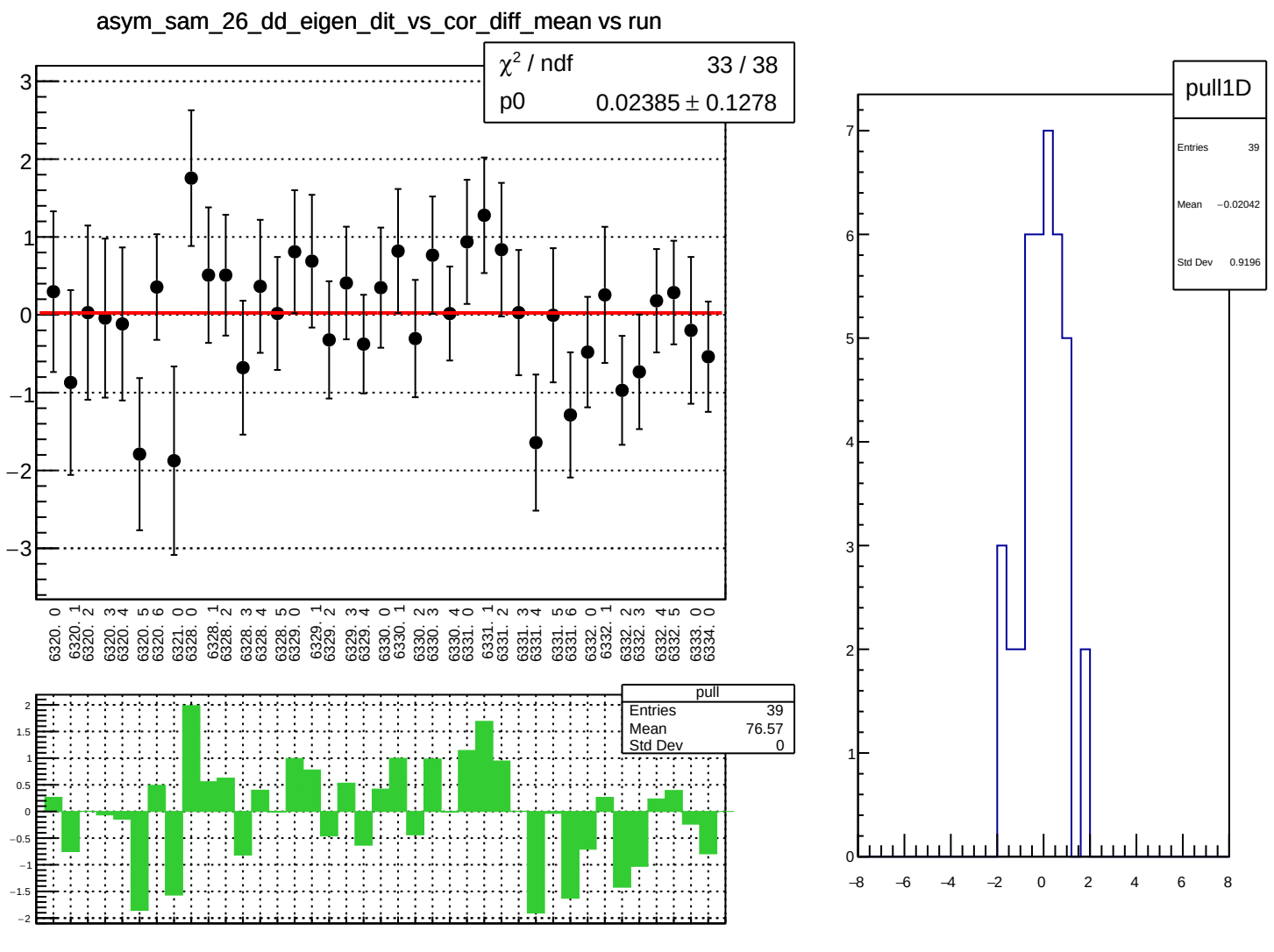

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33 / 38
p0 0.02386 ± 0.1278
pull
Entries 39
Mean 76.56
Std Dev 0
pull1D
Entries 39
Mean −0.02042
Std Dev 0.9197

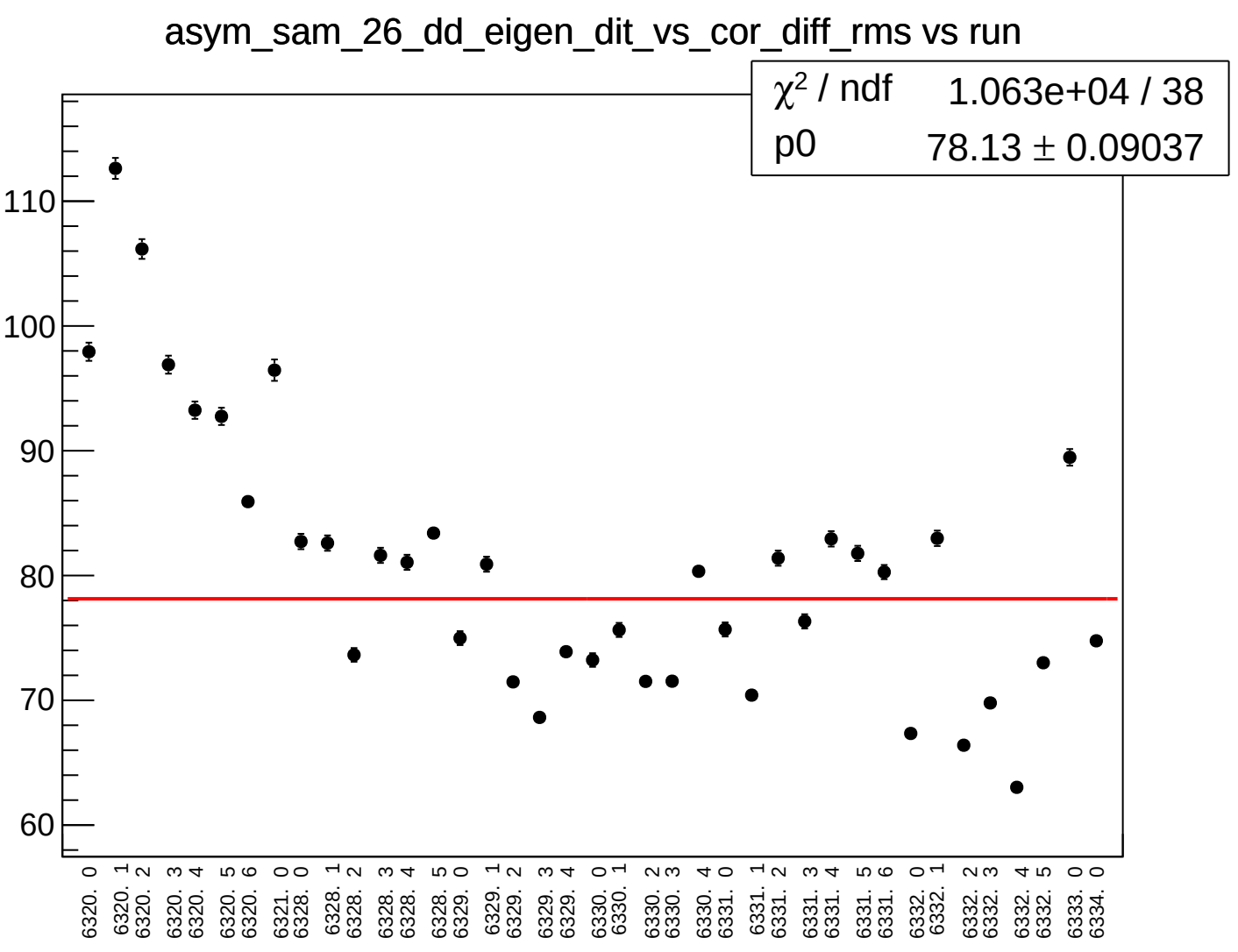

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+04 / 38
p0 78.13 ± 0.09037
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.59 / 38
p0 7.278e−06 ± 4.833e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

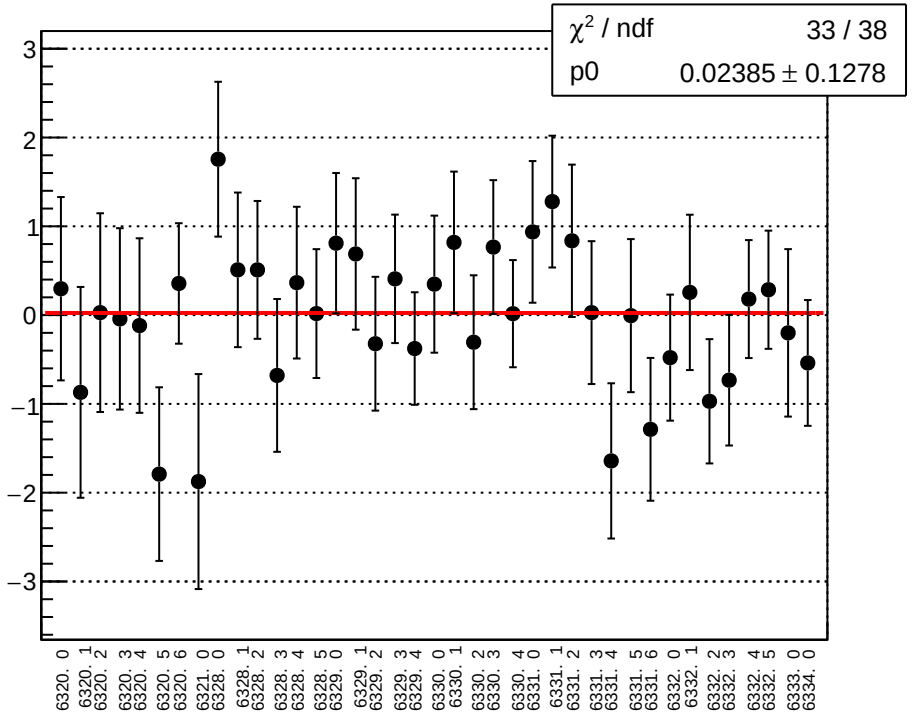

pull1D
Entries 39
Mean −0.08819
Std Dev 0.8517
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

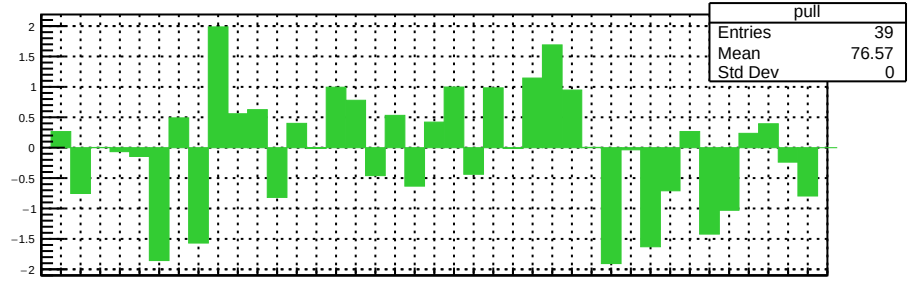

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.901e+05 / 38
p0 0.002338 ± 3.418e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

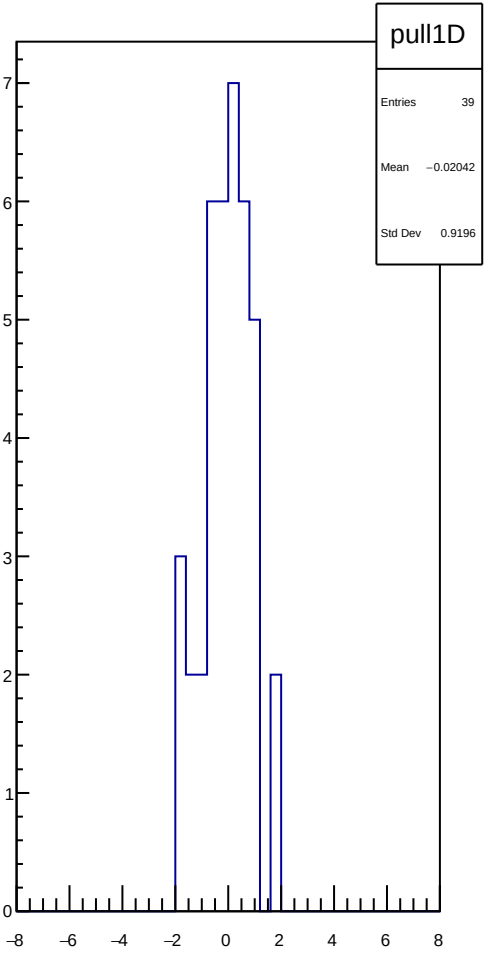

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33 / 38
p0 0.02385 ± 0.1278
pull
Entries 39
Mean 76.57
Std Dev 0
pull1D
Entries 39
Mean −0.02042
Std Dev 0.9196

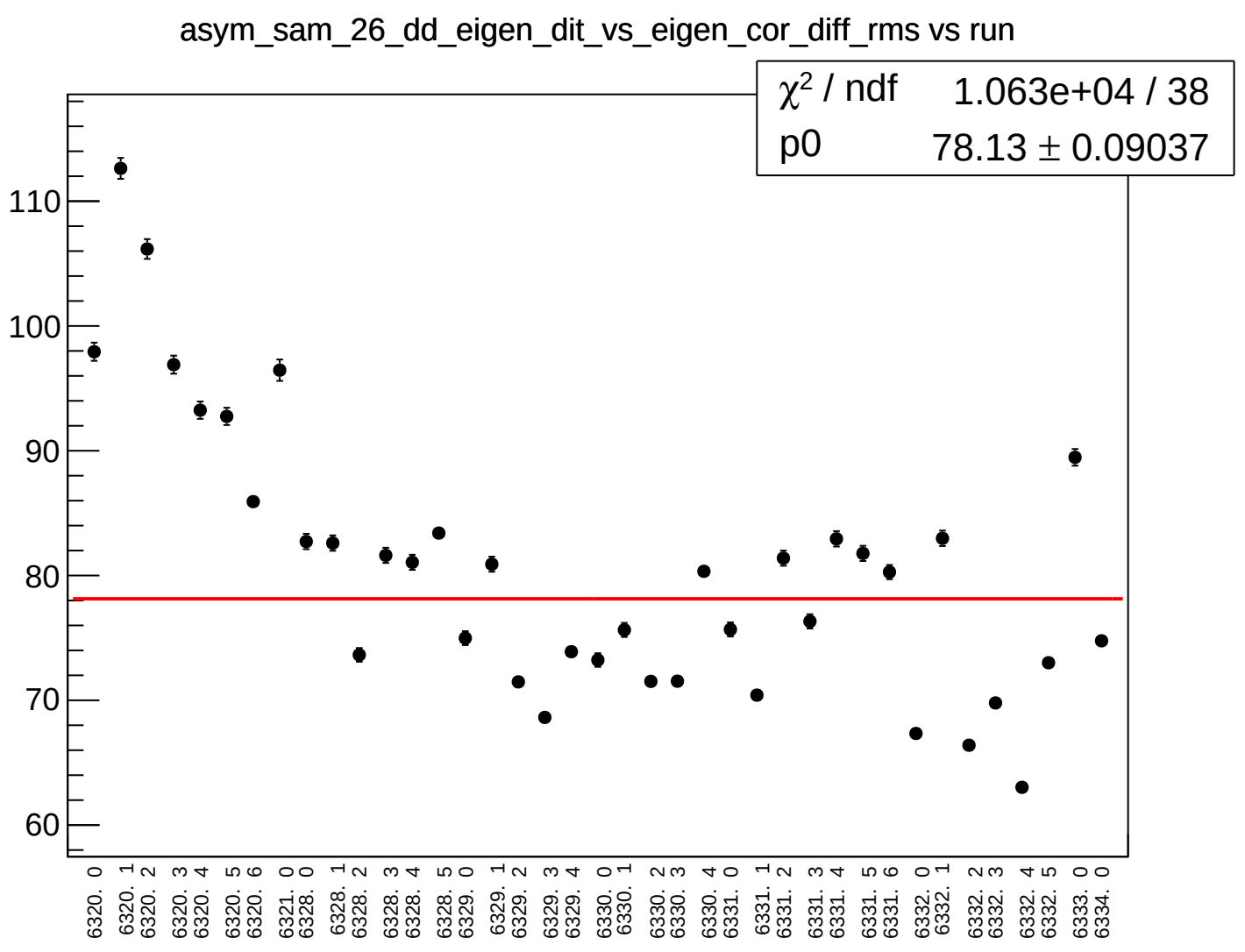

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+04 / 38
p0 78.13 ± 0.09037
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

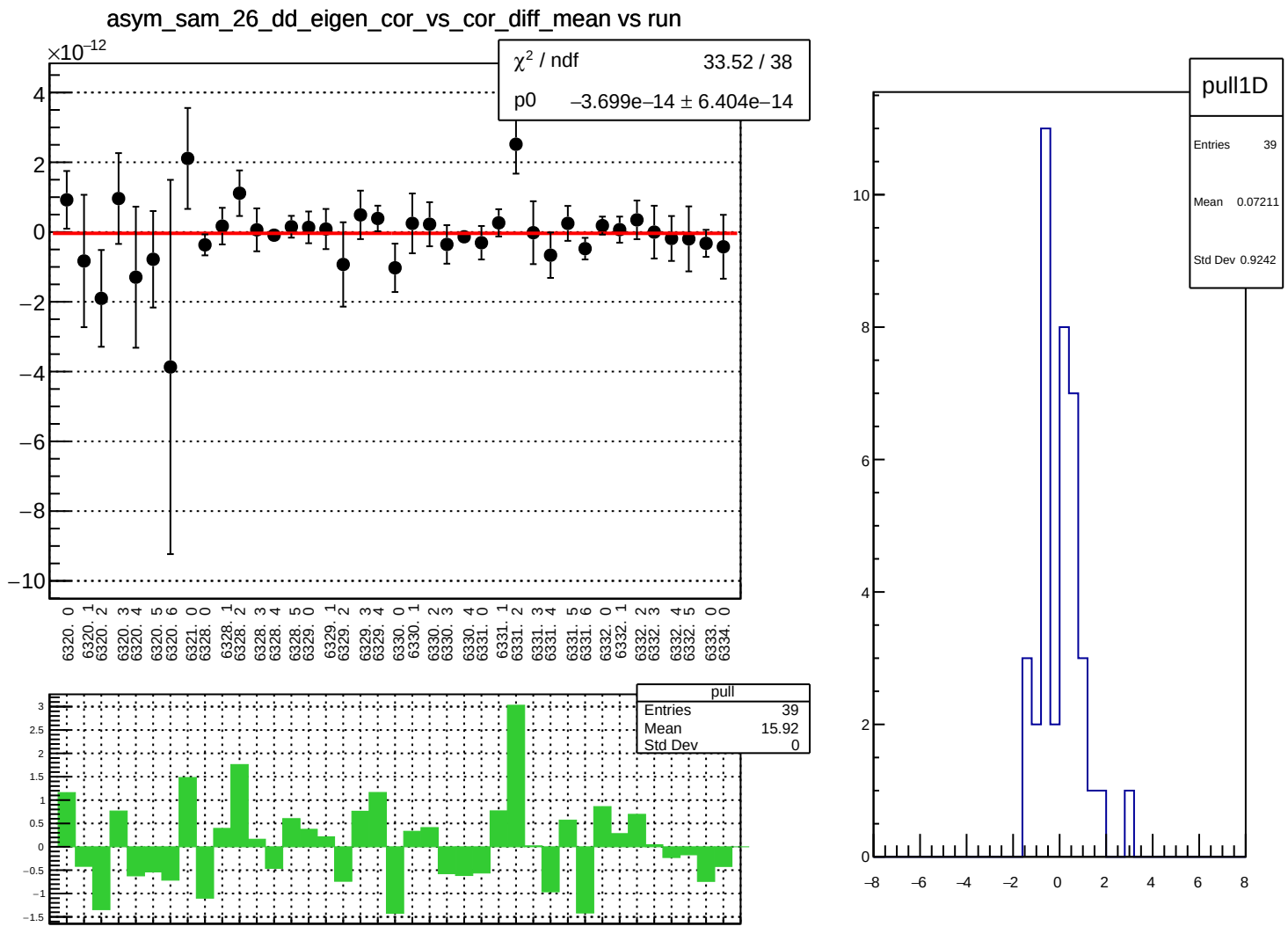
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

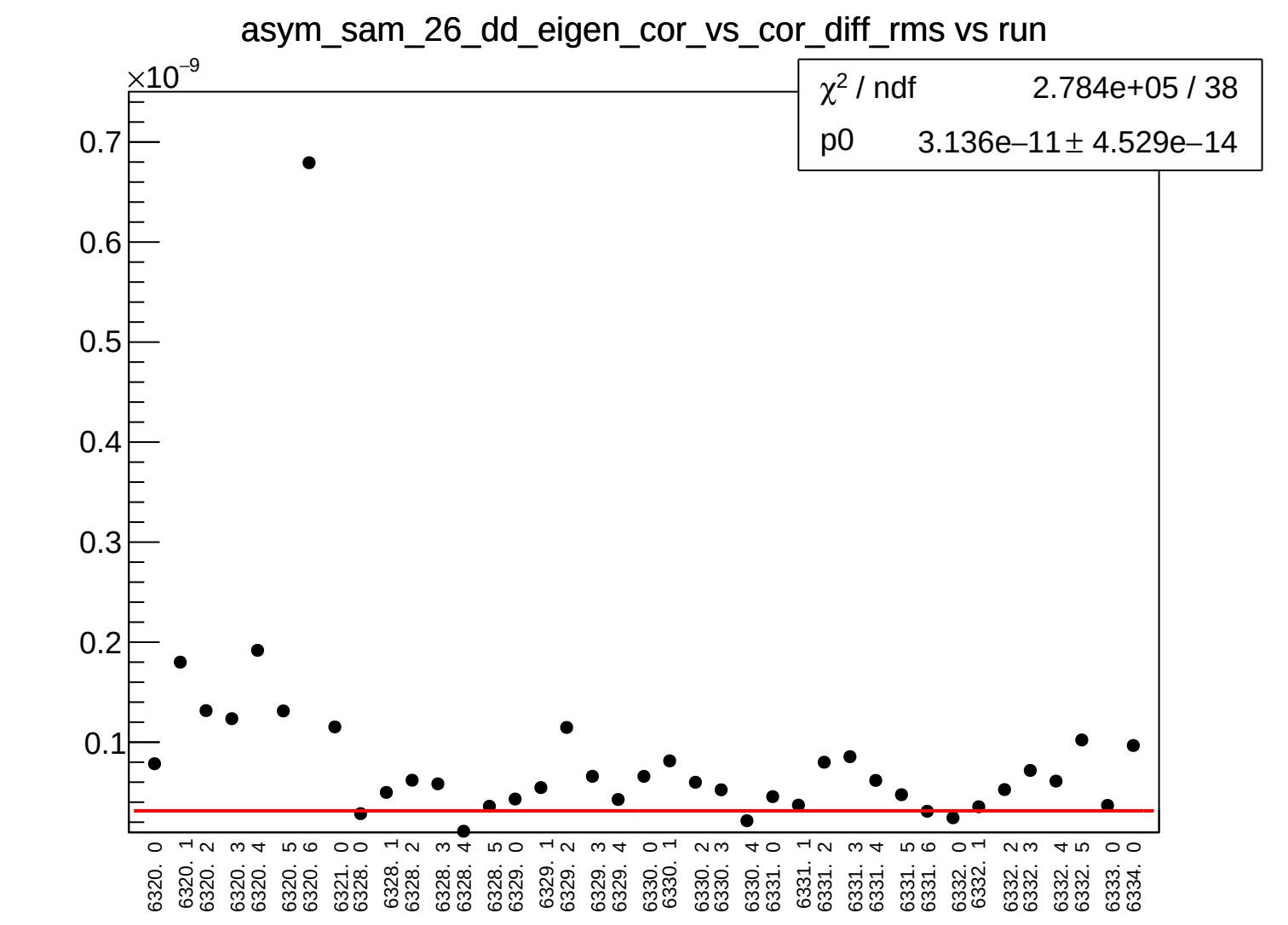


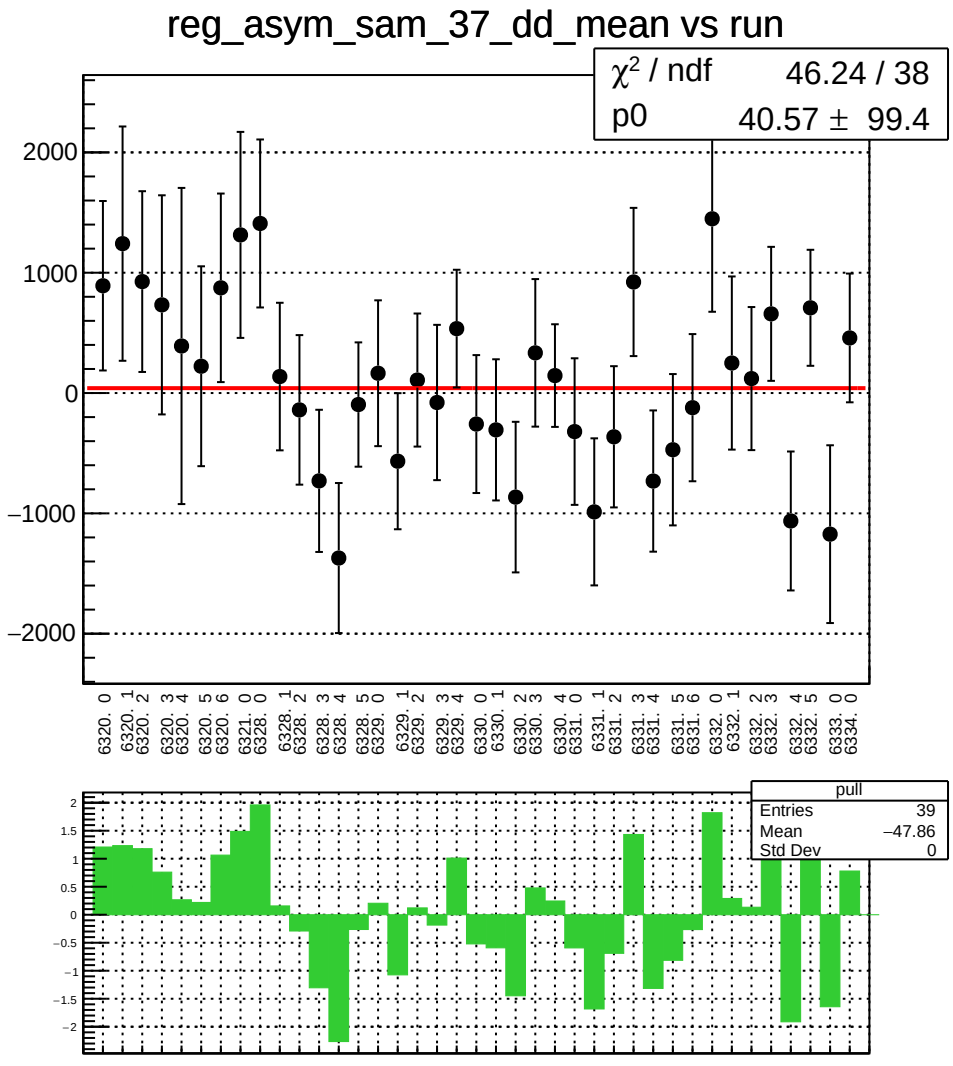


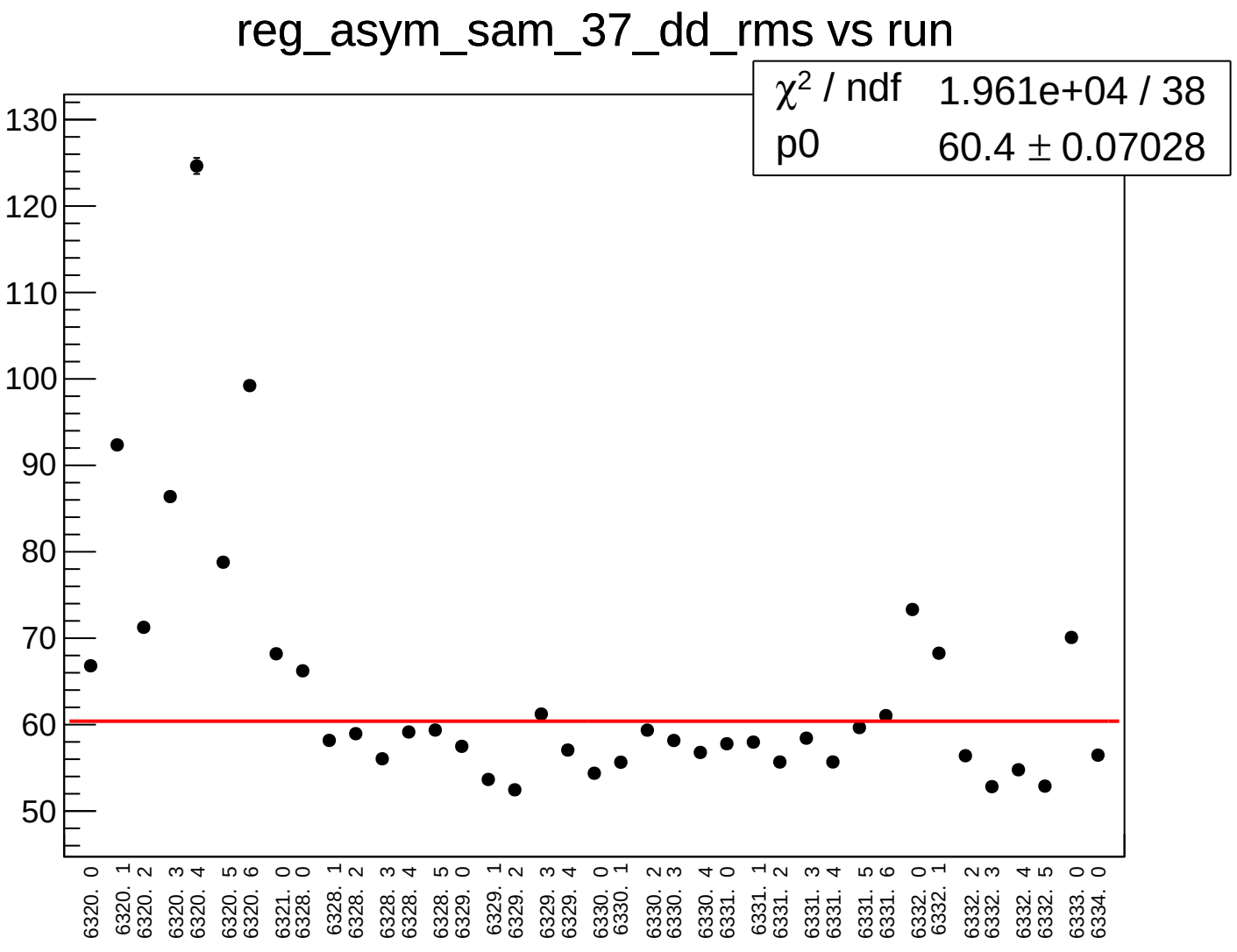


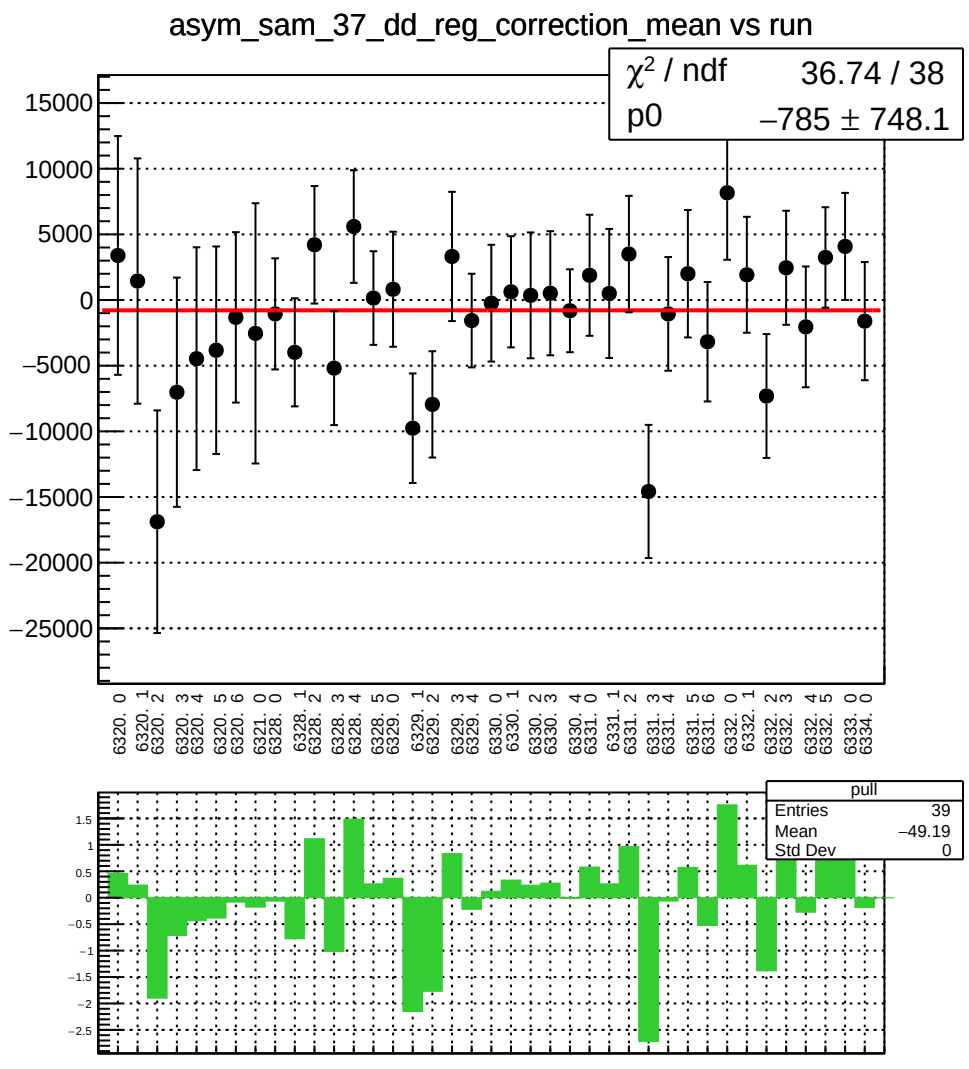

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+04 / 38
p0 78.13 ± 0.09037
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

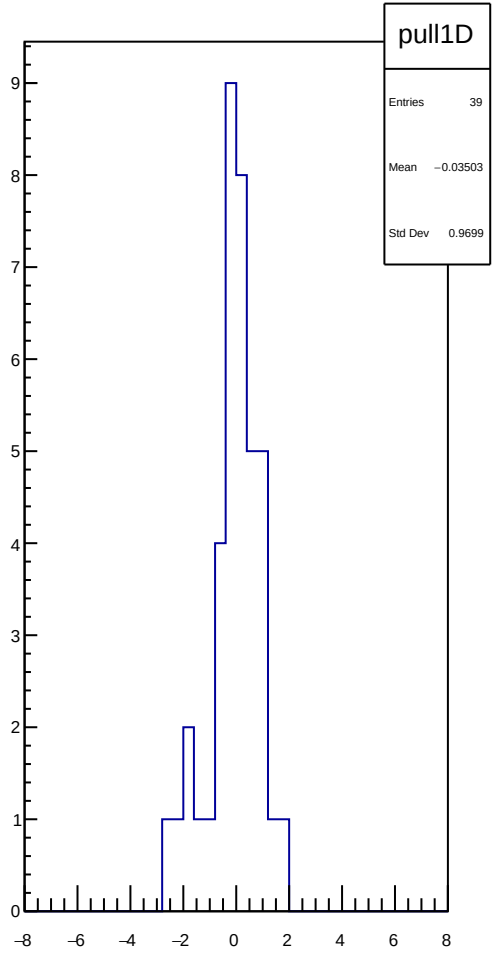

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.52 / 38
p0 −3.699e−14 ± 6.404e−14
pull
Entries 39
Mean 15.92
Std Dev 0
pull1D
Entries 39
Mean 0.07211
Std Dev 0.9242

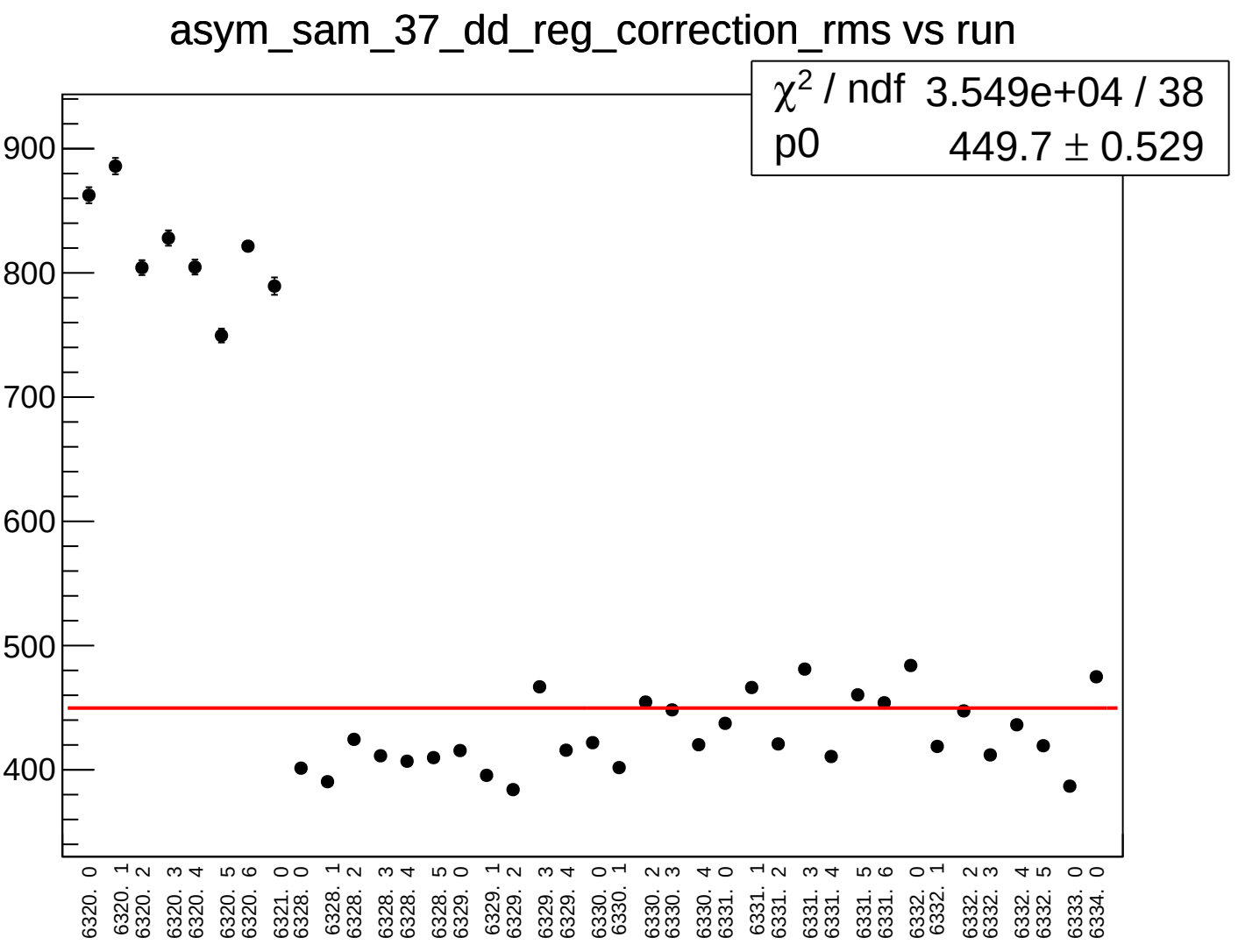

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.784e+05 / 38
p0 3.136e−11 ± 4.529e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

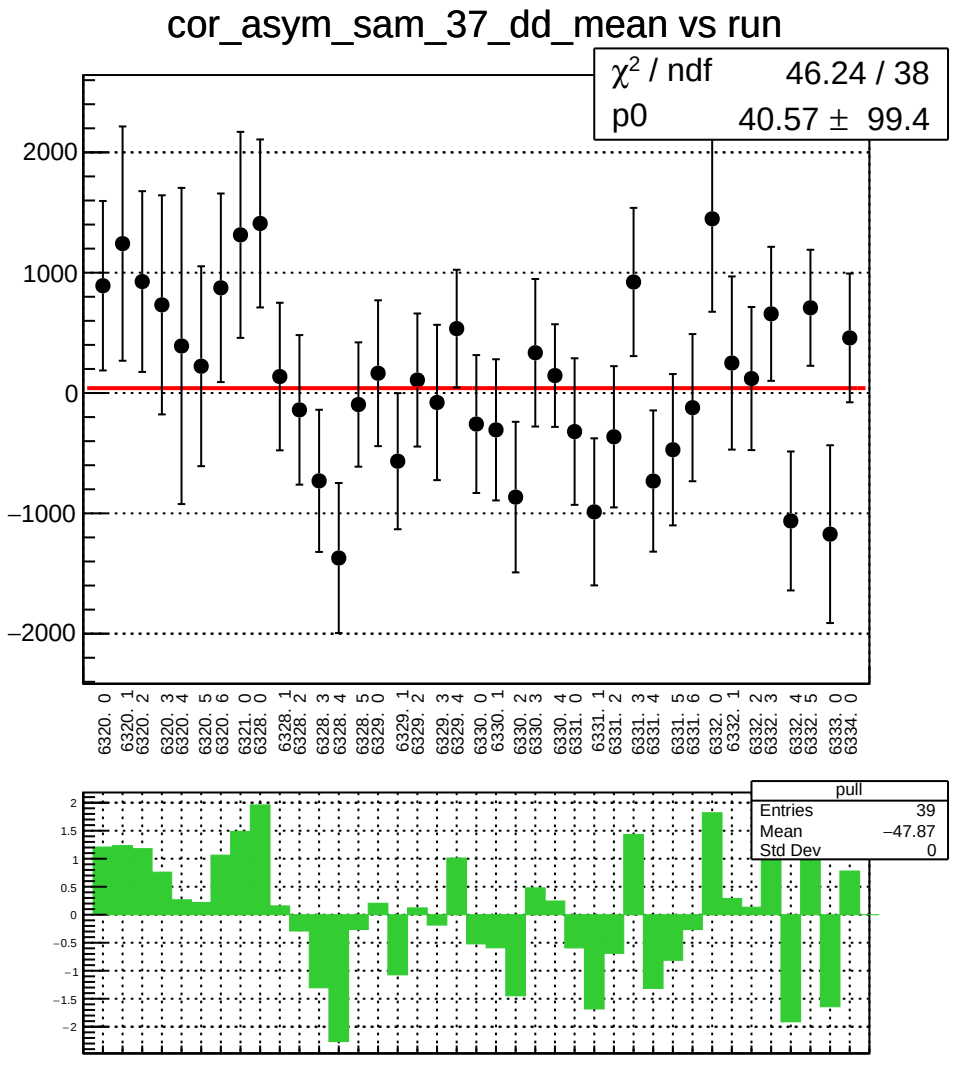

reg_asym_sam_37_dd_mean vs run
χ² / ndf 46.24 / 38
p0 40.57 ± 99.4
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.04361
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

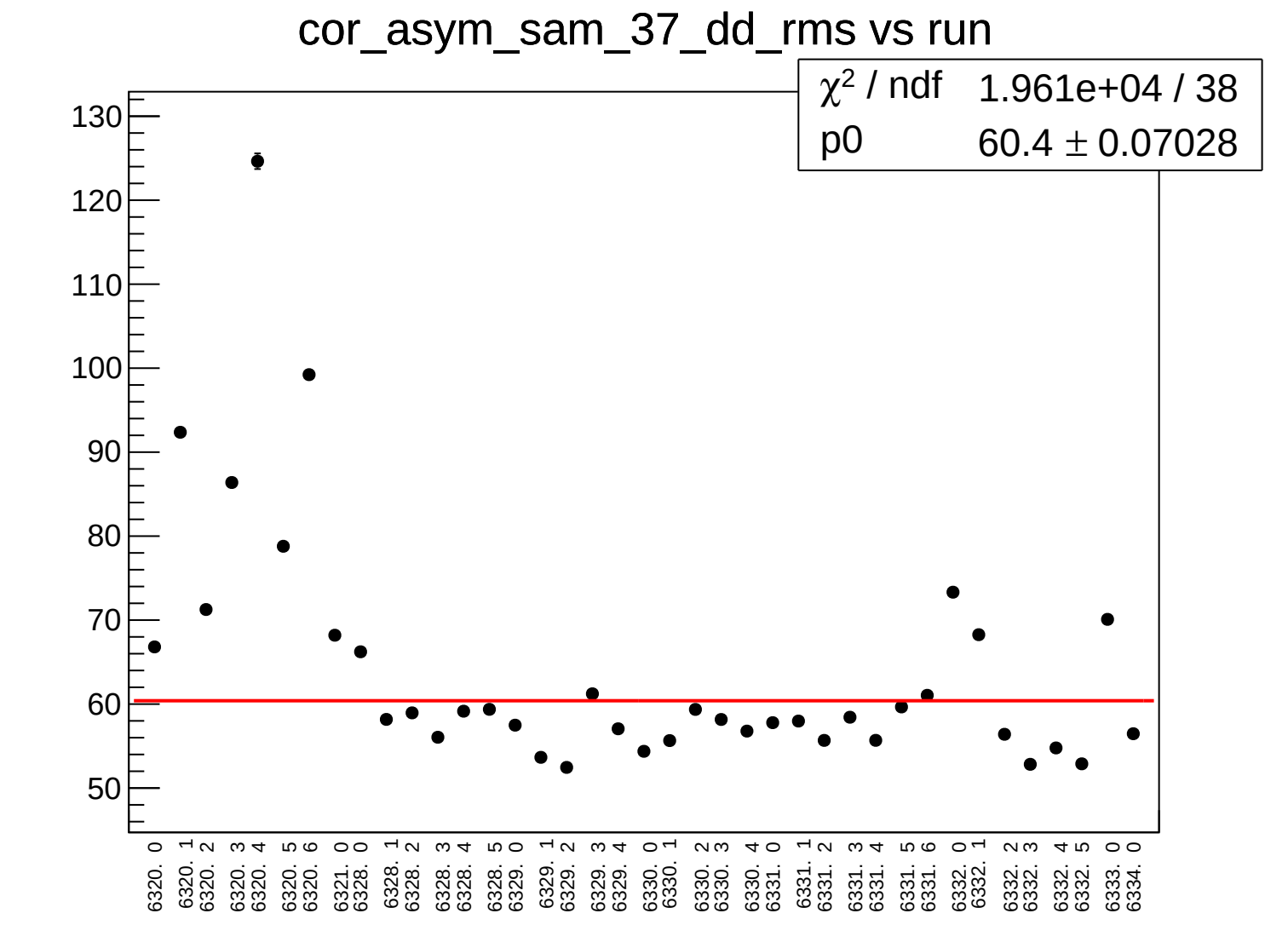

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.961e+04 / 38
p0 60.4 ± 0.07028
130
120
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

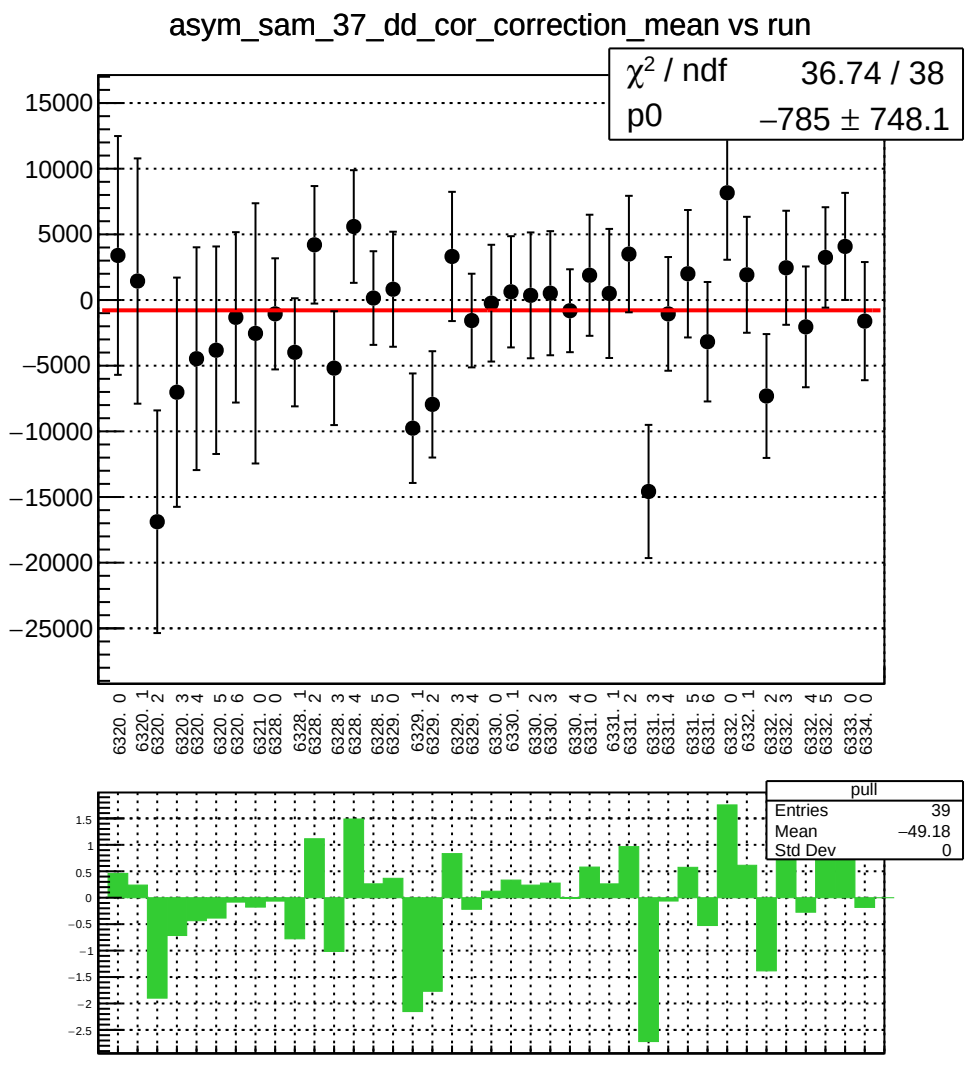

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 36.74 / 38
p0 −785 ± 748.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

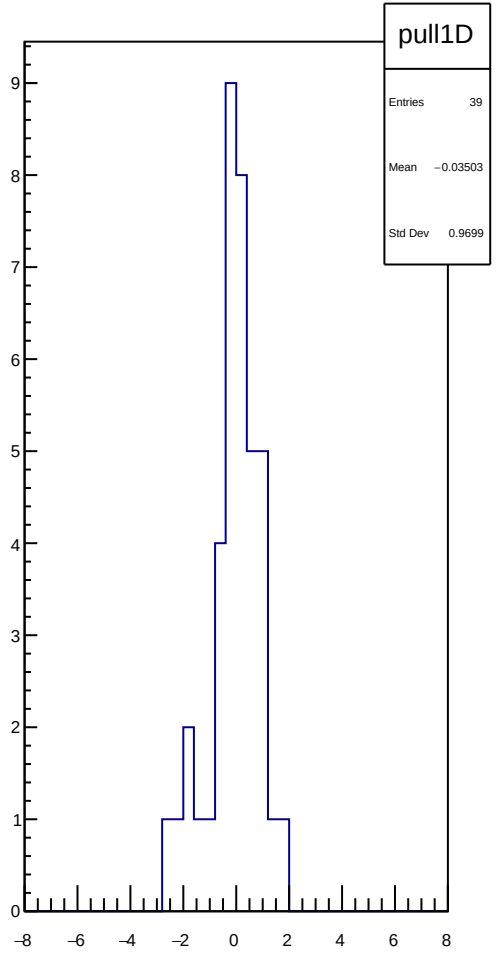

pull1D
Entries 39
Mean −0.03503
Std Dev 0.9699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

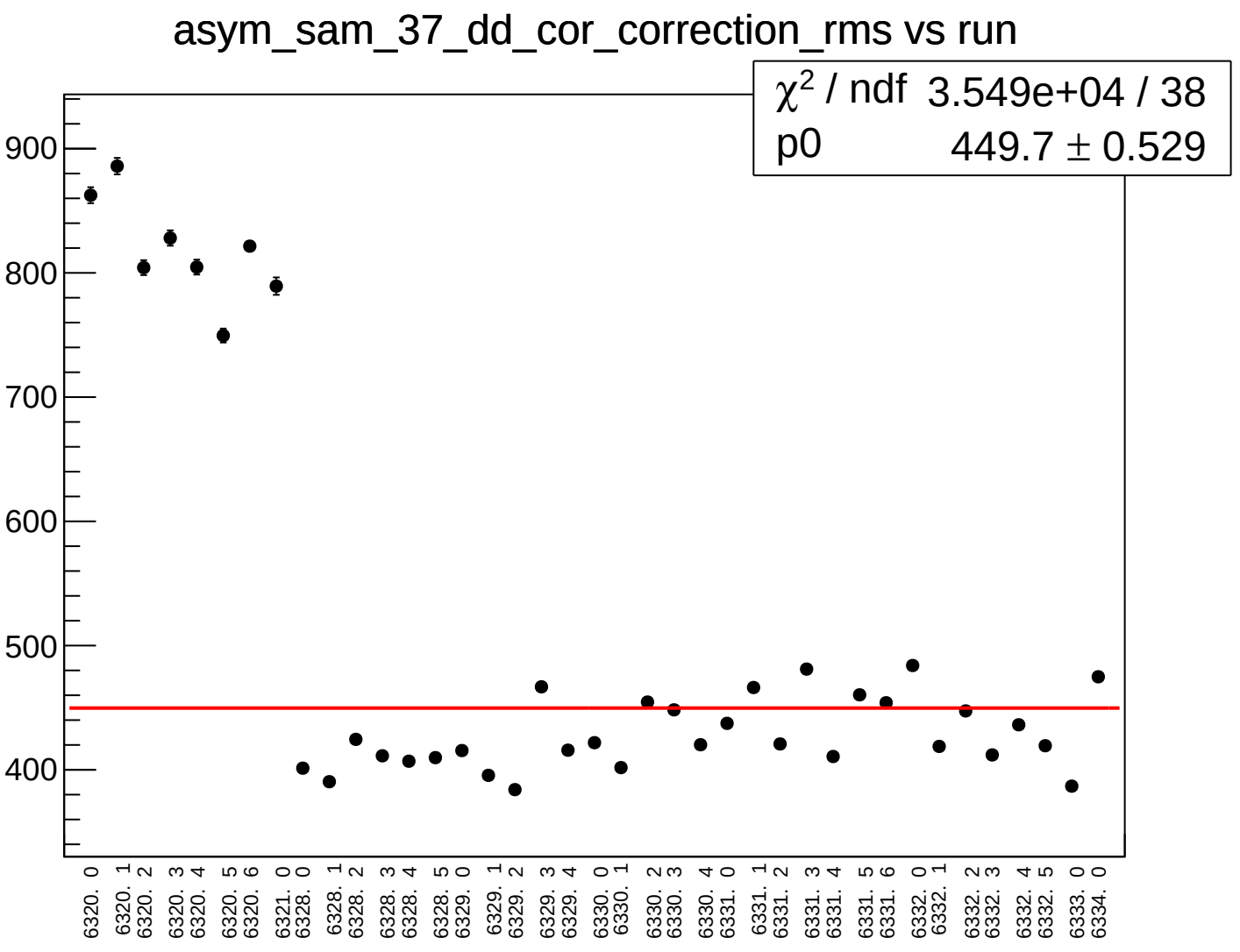

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3.549e+04 / 38
p0 449.7 ± 0.529
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

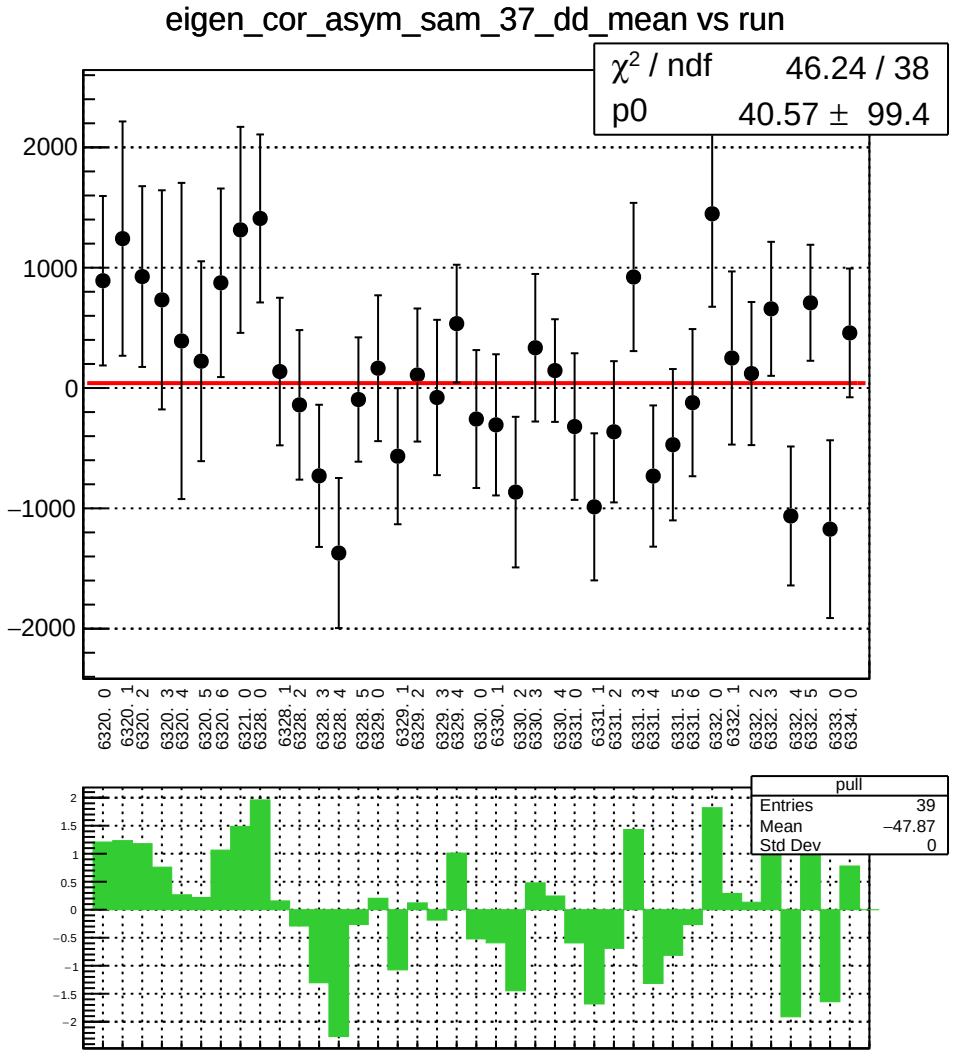

cor_asym_sam_37_dd_mean vs run
χ² / ndf 46.24 / 38
p0 40.57 ± 99.4
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0436
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

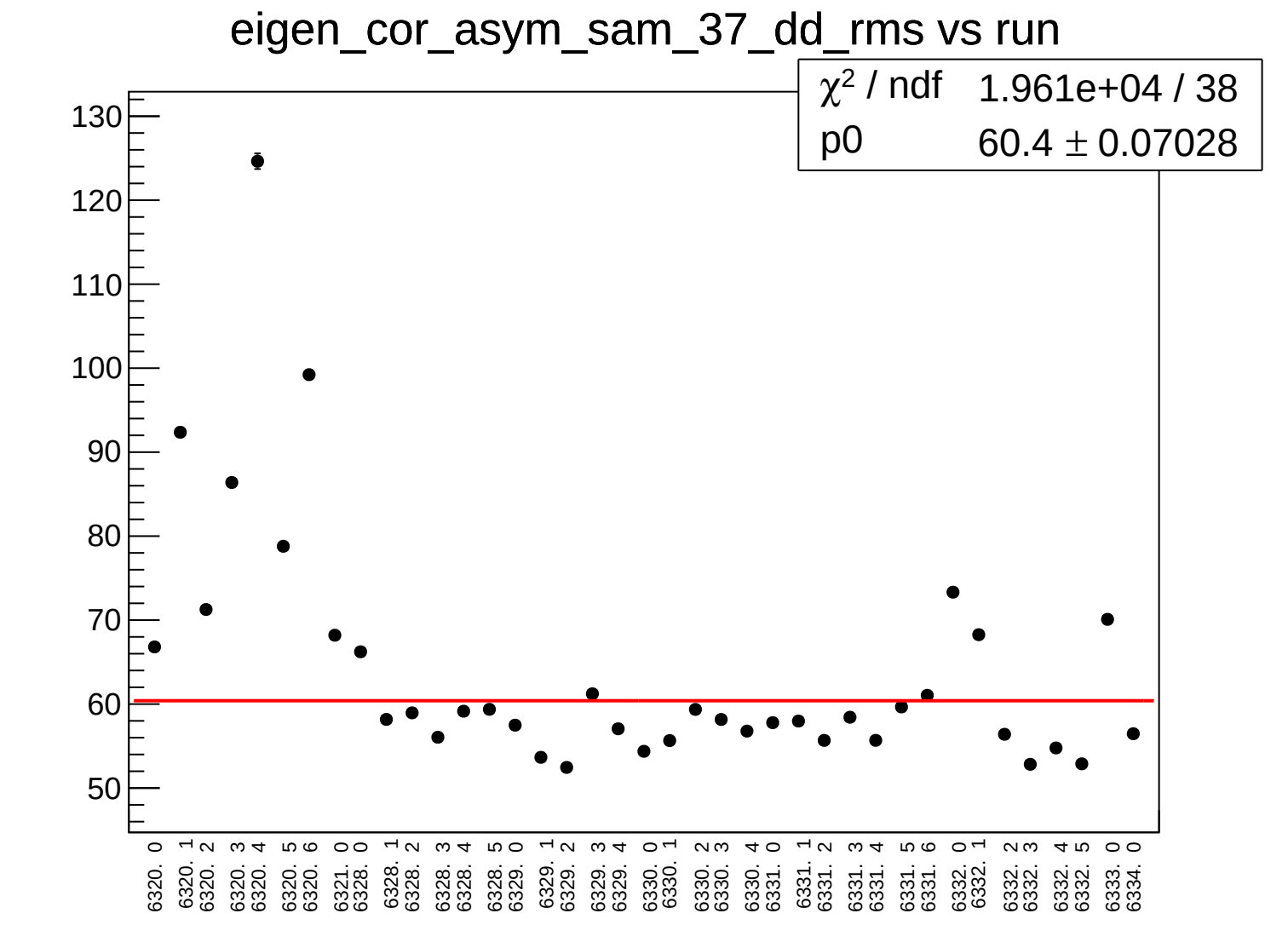

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.961e+04 / 38
p0 60.4 ± 0.07028
130
120
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 36.74 / 38
p0 −785 ± 748.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.03503
Std Dev 0.9699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3.549e+04 / 38
p0 449.7 ± 0.529
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 46.24 / 38
p0 40.57 ± 99.4
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0436
Std Dev 1.088
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 1.961e+04 / 38
p0 60.4 ± 0.07028
130
120
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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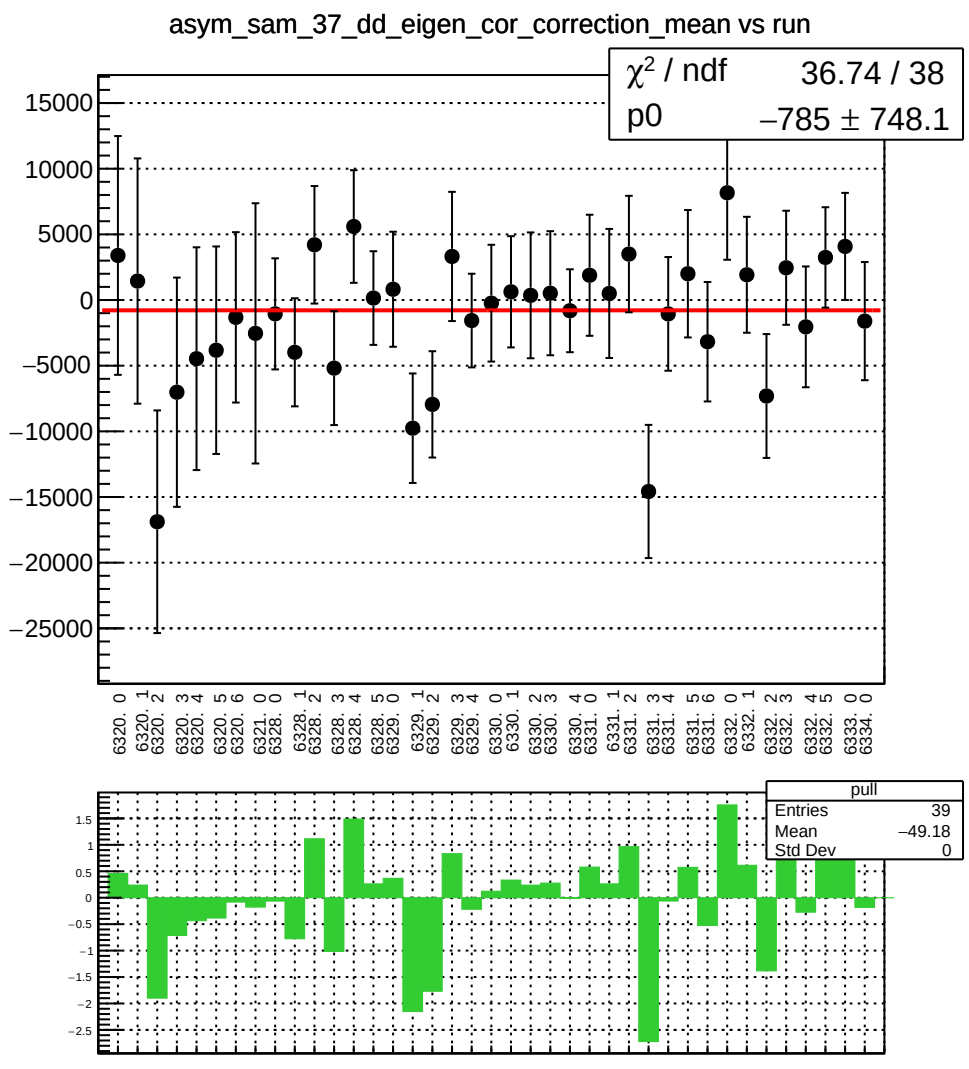
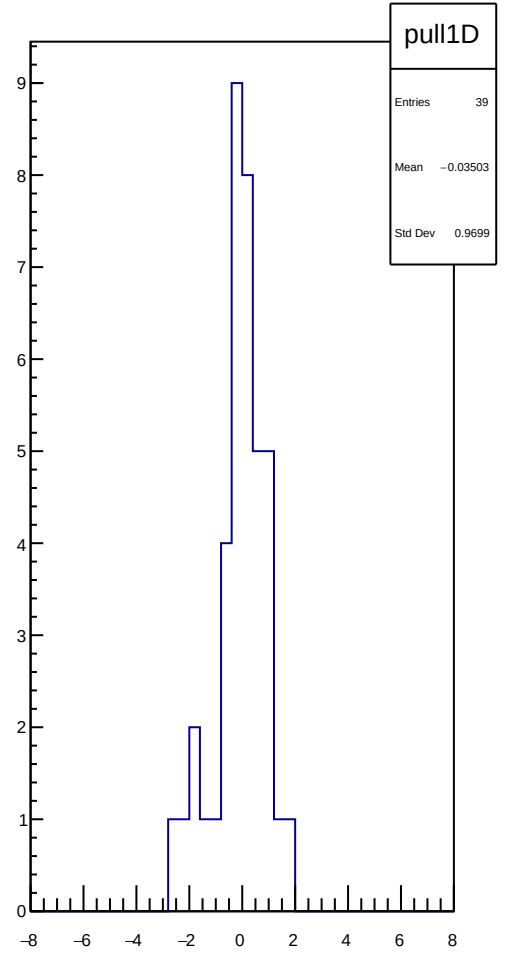
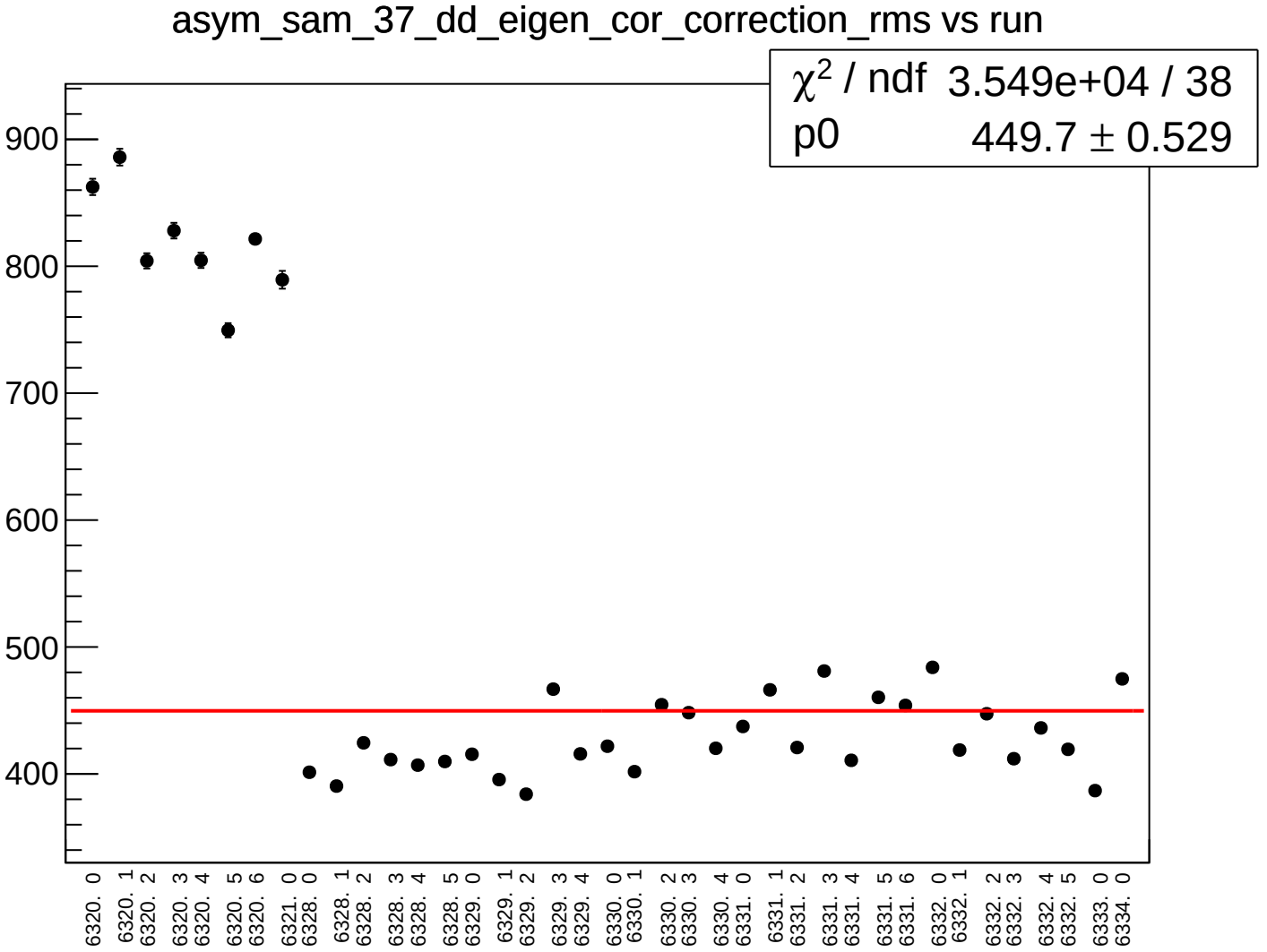
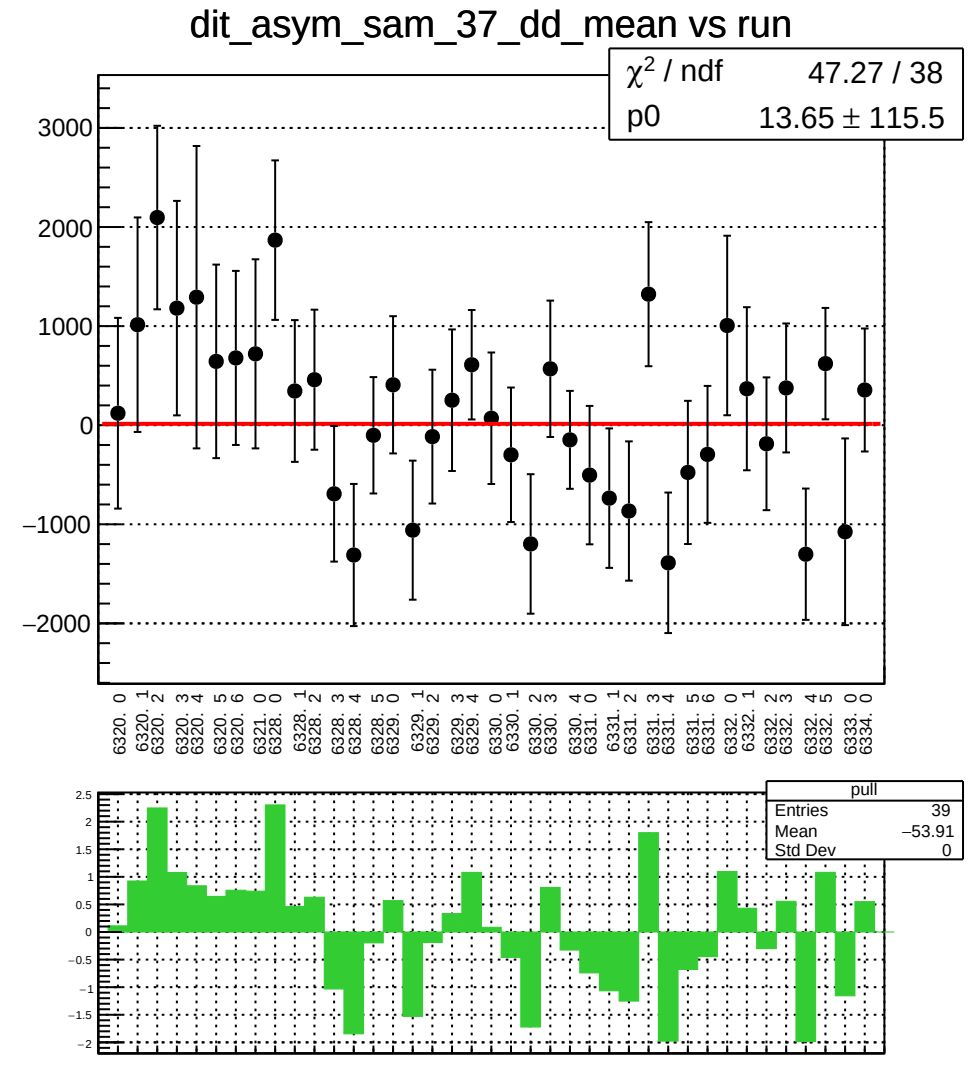
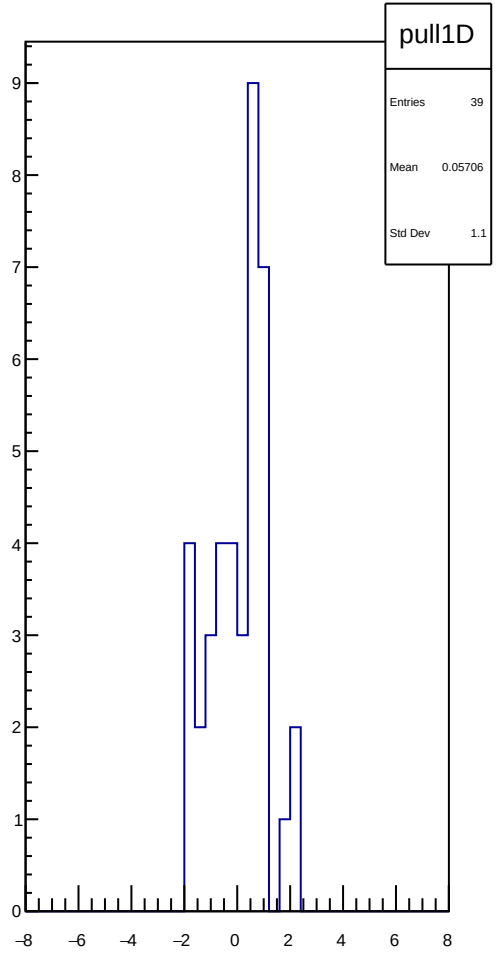
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

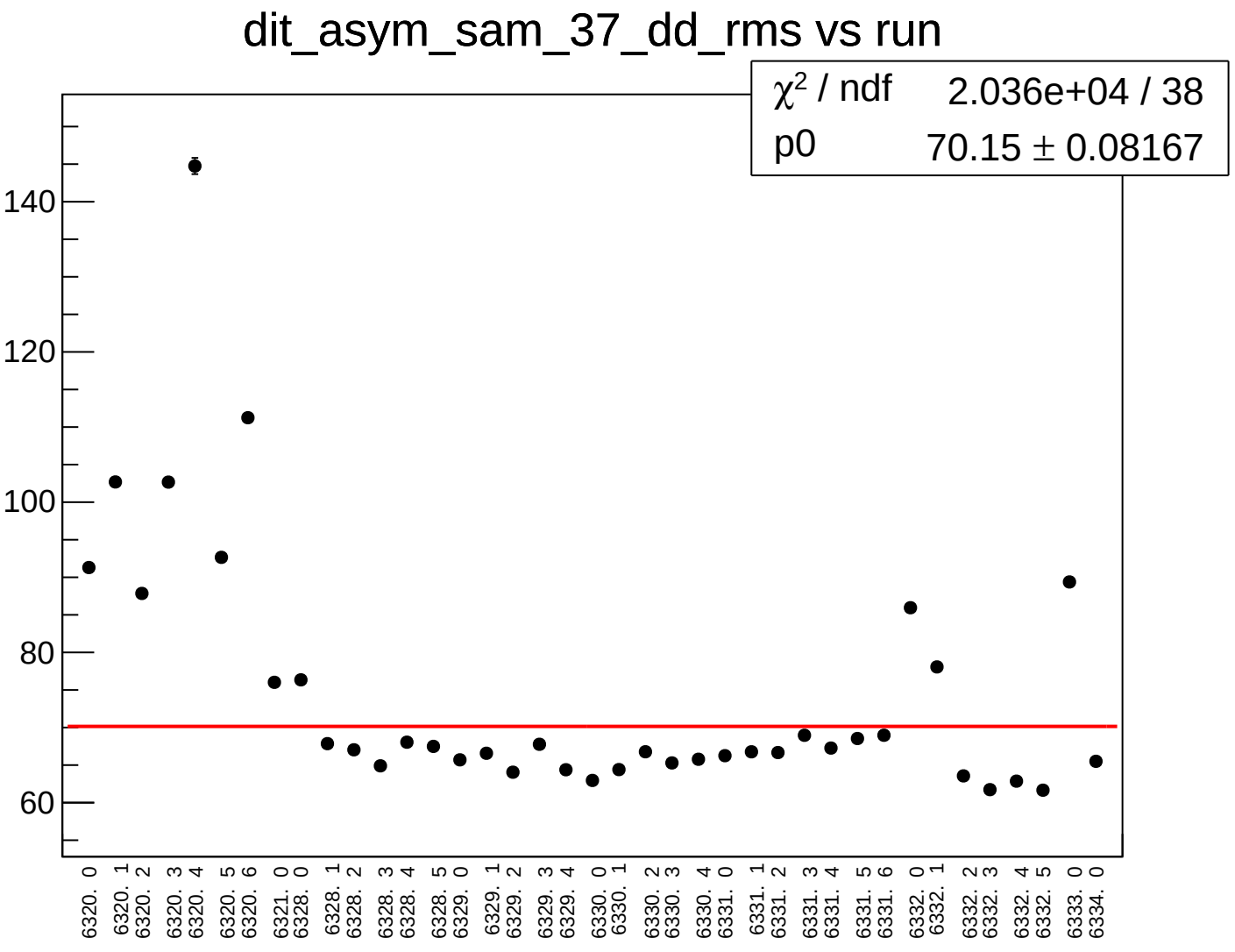

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.74 / 38
p0 −785 ± 748.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −49.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.03503
Std Dev 0.9699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.549e+04 / 38
p0 449.7 ± 0.529
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_37_dd_mean vs run
χ² / ndf 47.27 / 38
p0 13.65 ± 115.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −53.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.05706
Std Dev 1.1
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 2.036e+04 / 38
p0 70.15 ± 0.08167
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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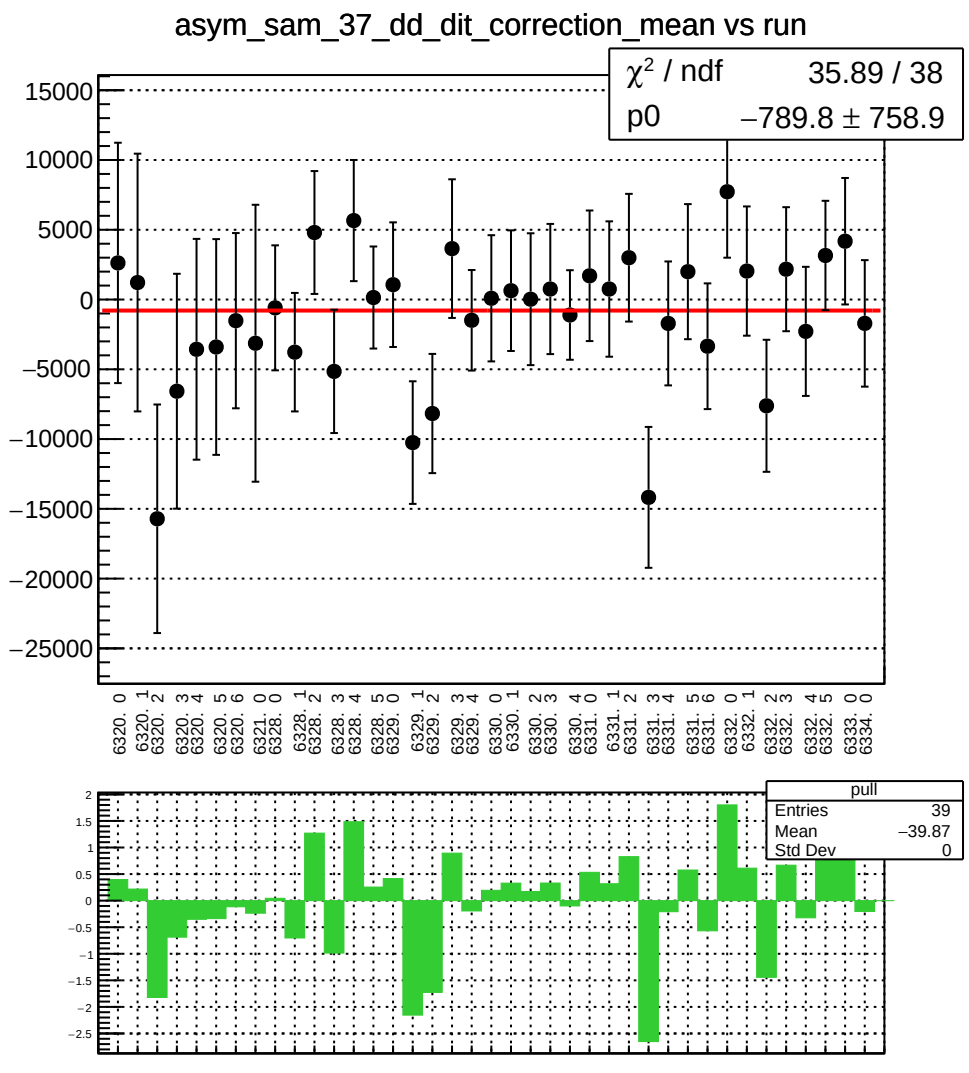
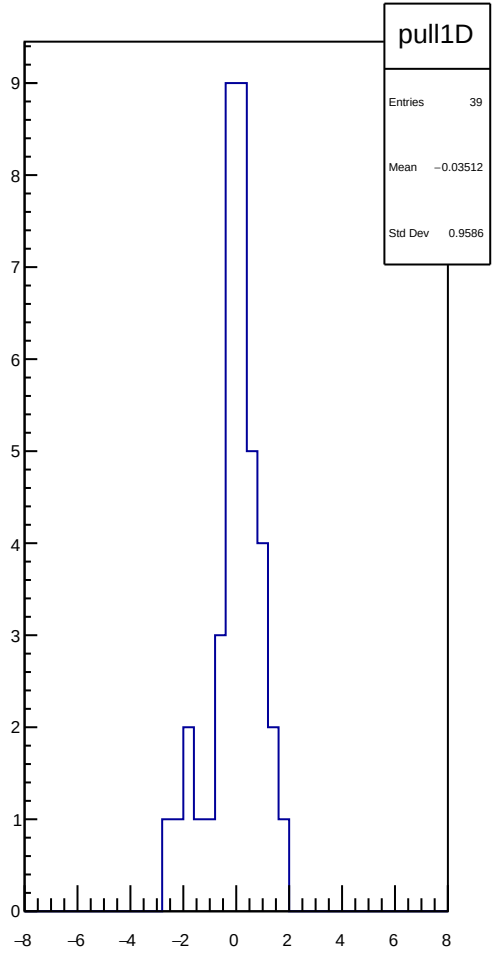
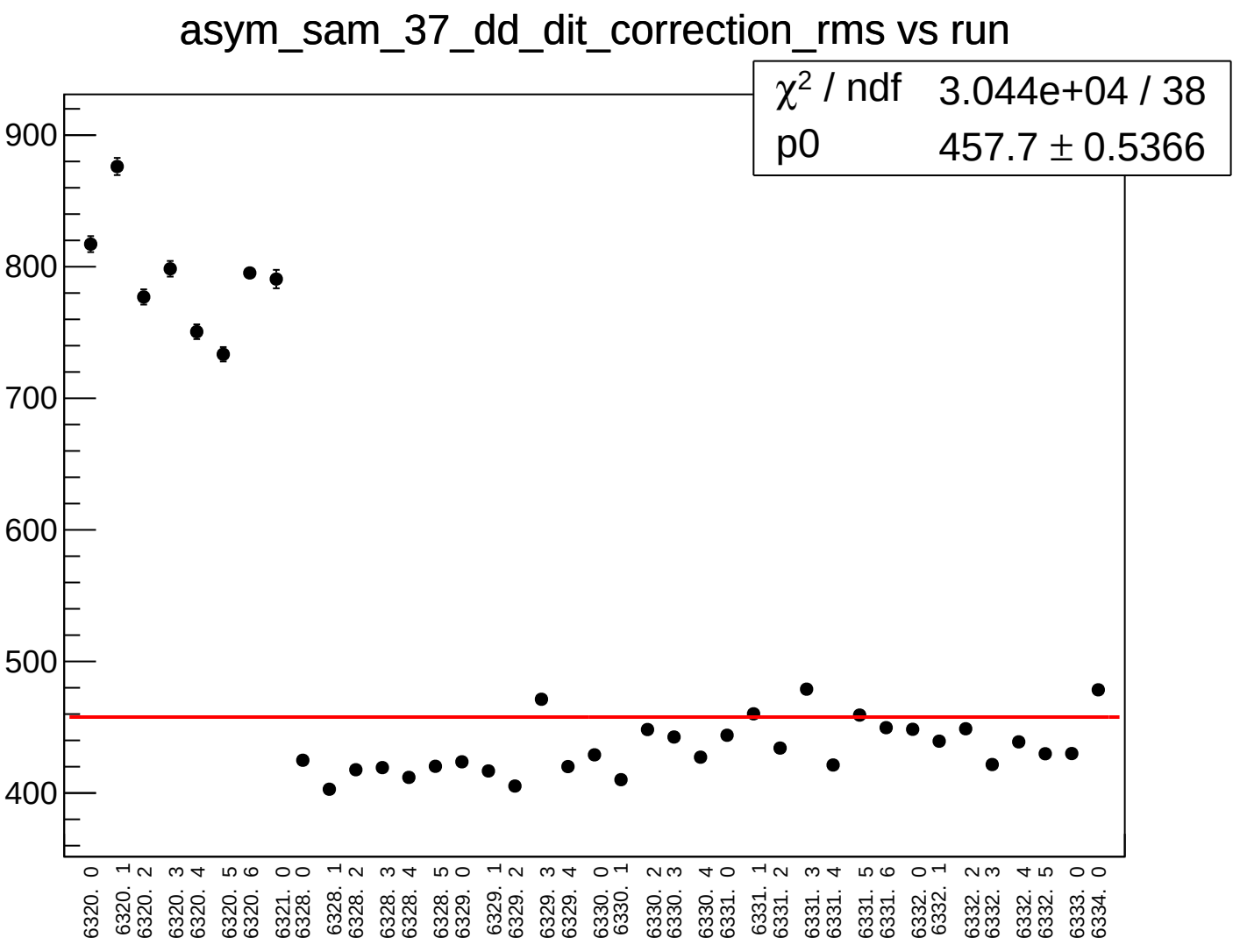
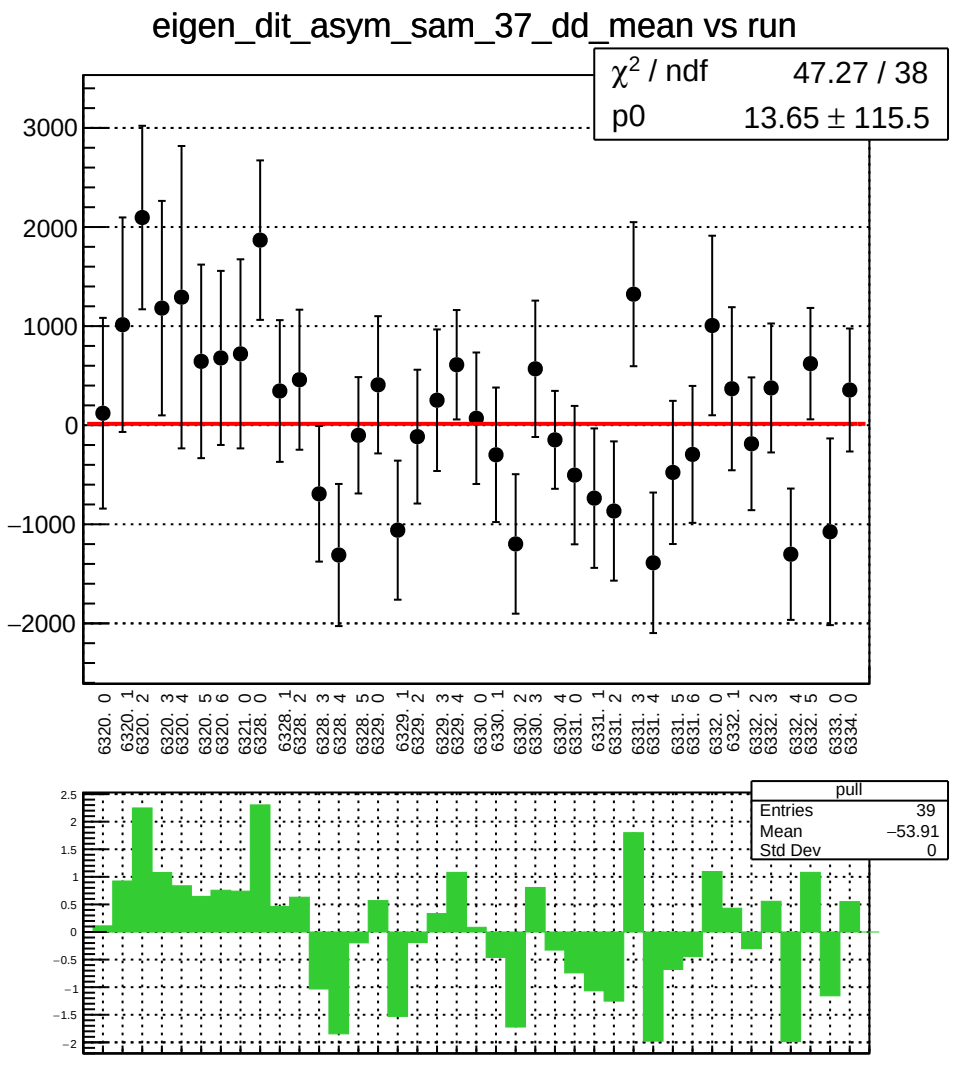
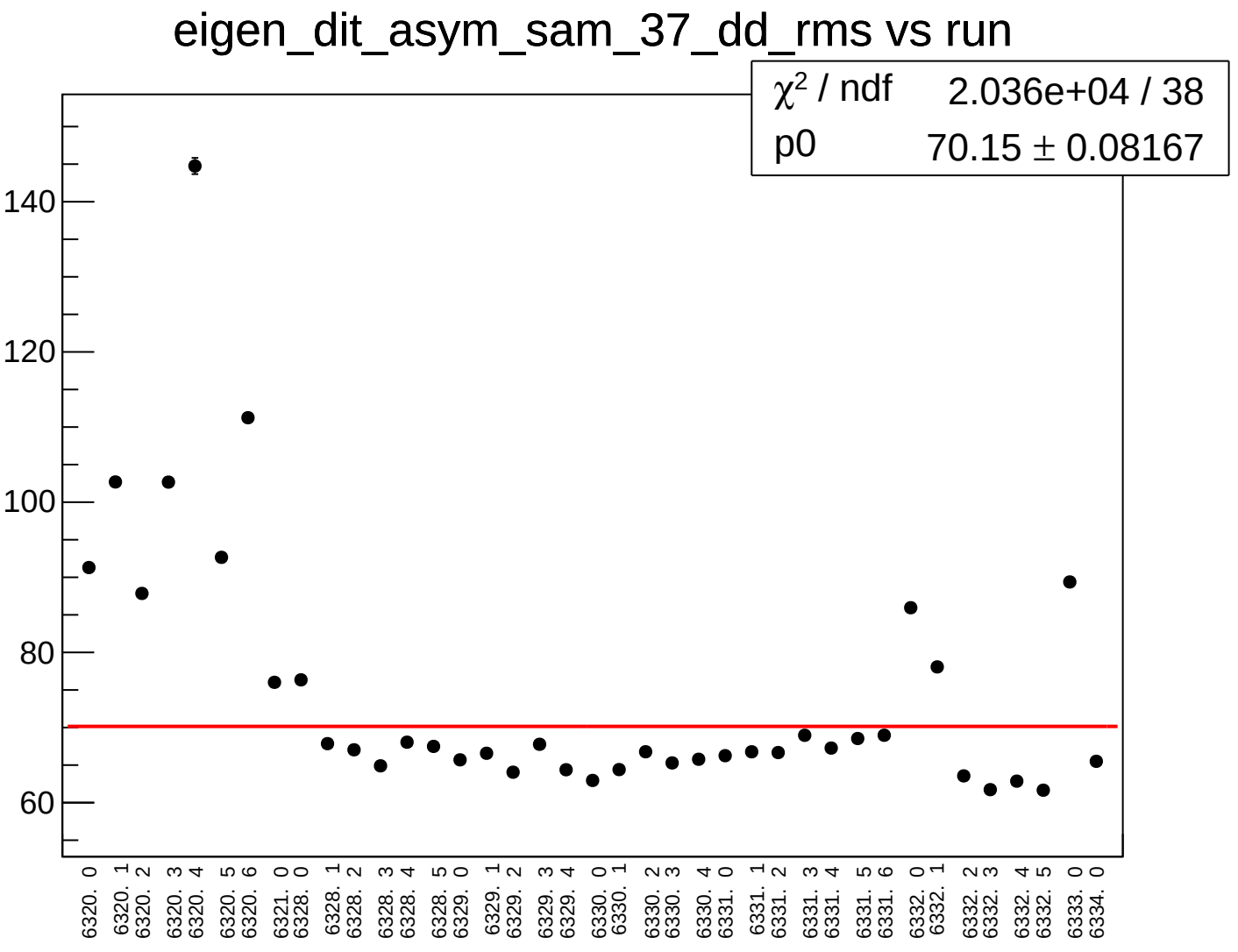
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

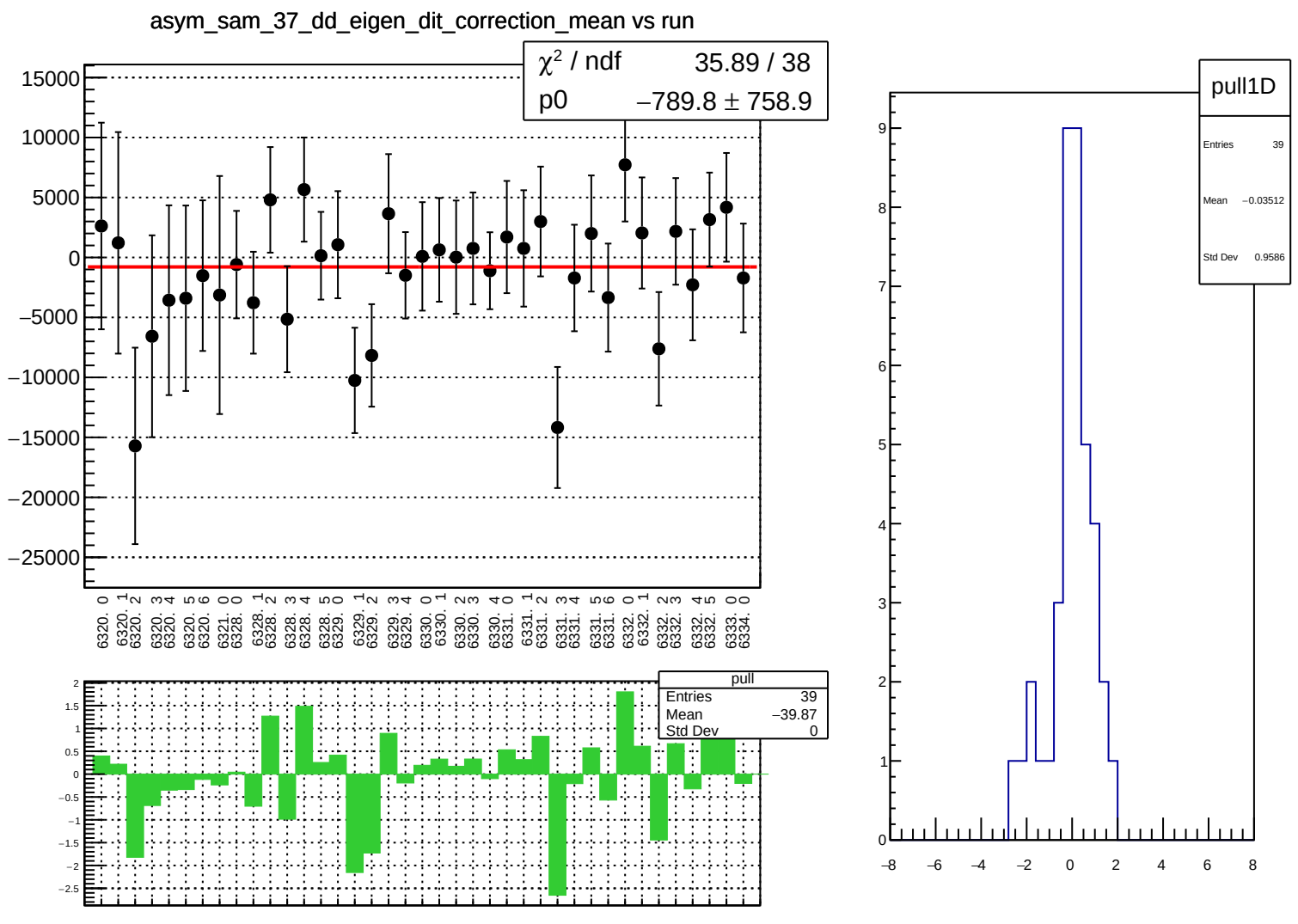

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 35.89 / 38
p0 −789.8 ± 758.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

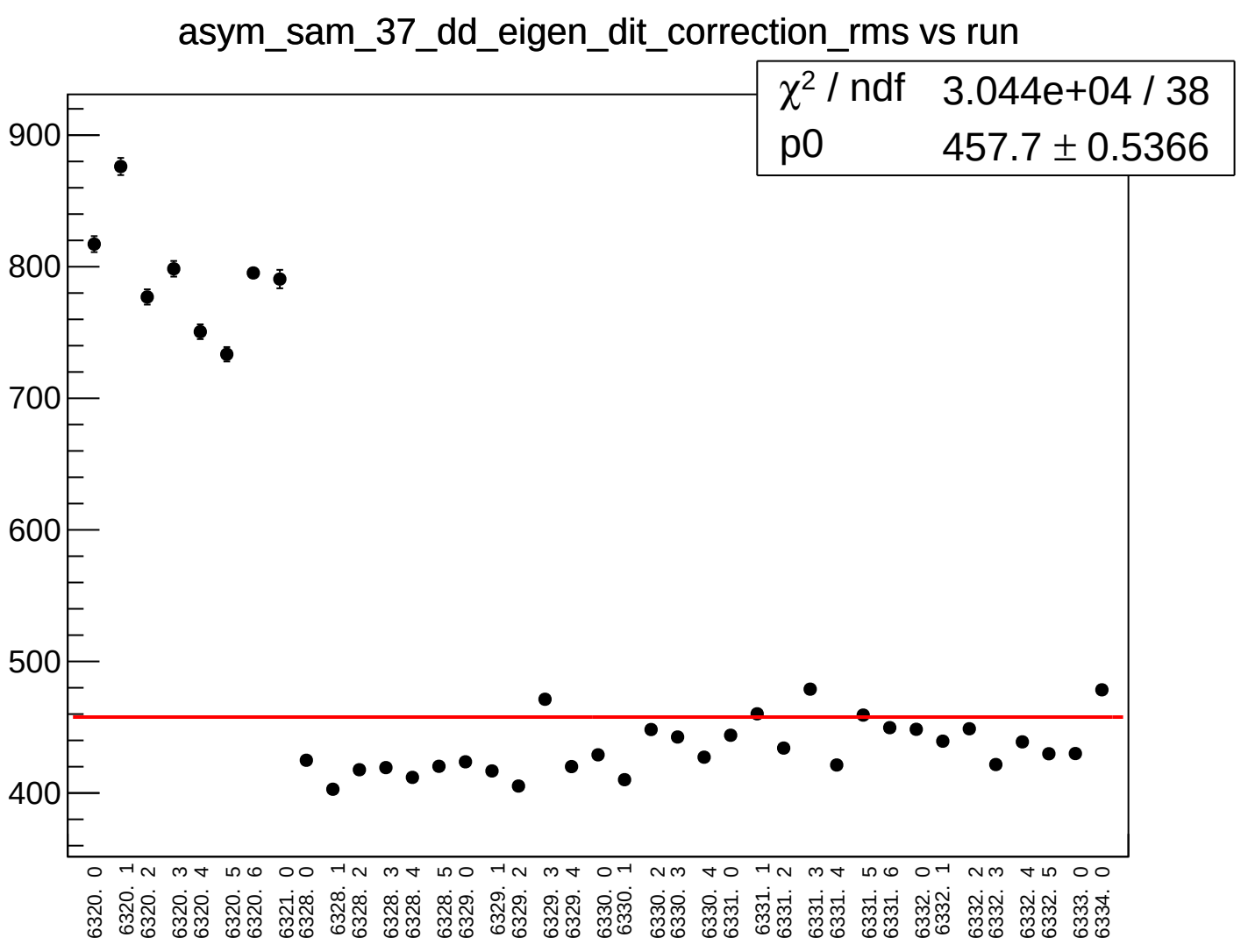

pull1D
Entries 39
Mean −0.03512
Std Dev 0.9586
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

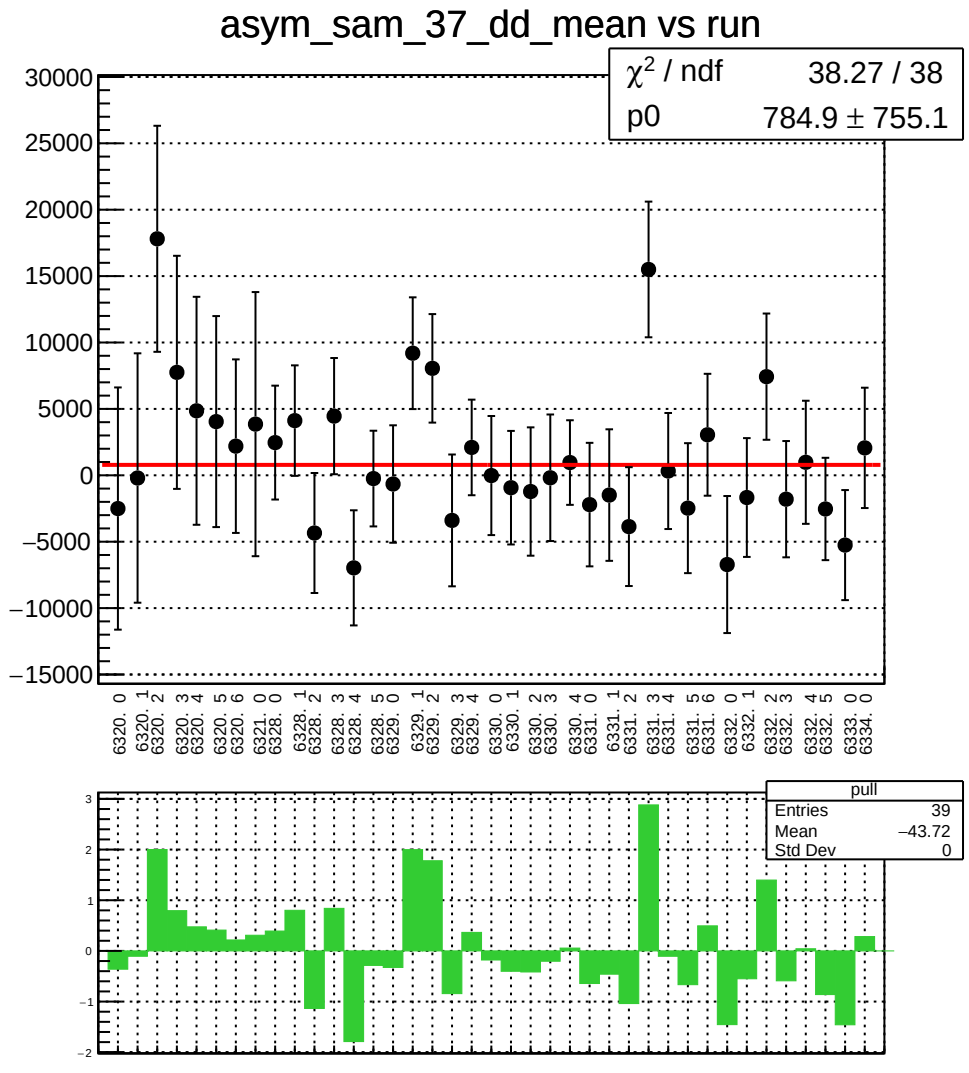

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3.044e+04 / 38
p0 457.7 ± 0.5366
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

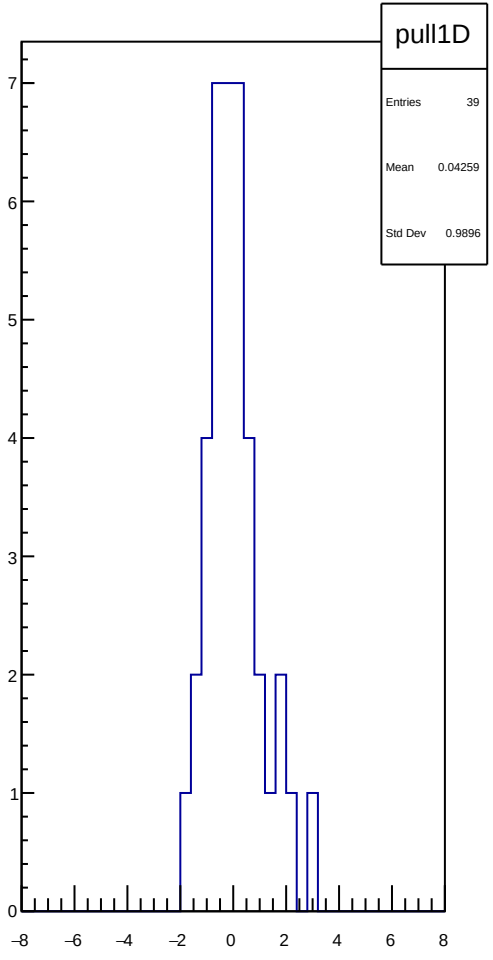

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 47.27 / 38
p0 13.65 ± 115.5
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −53.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.05706
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

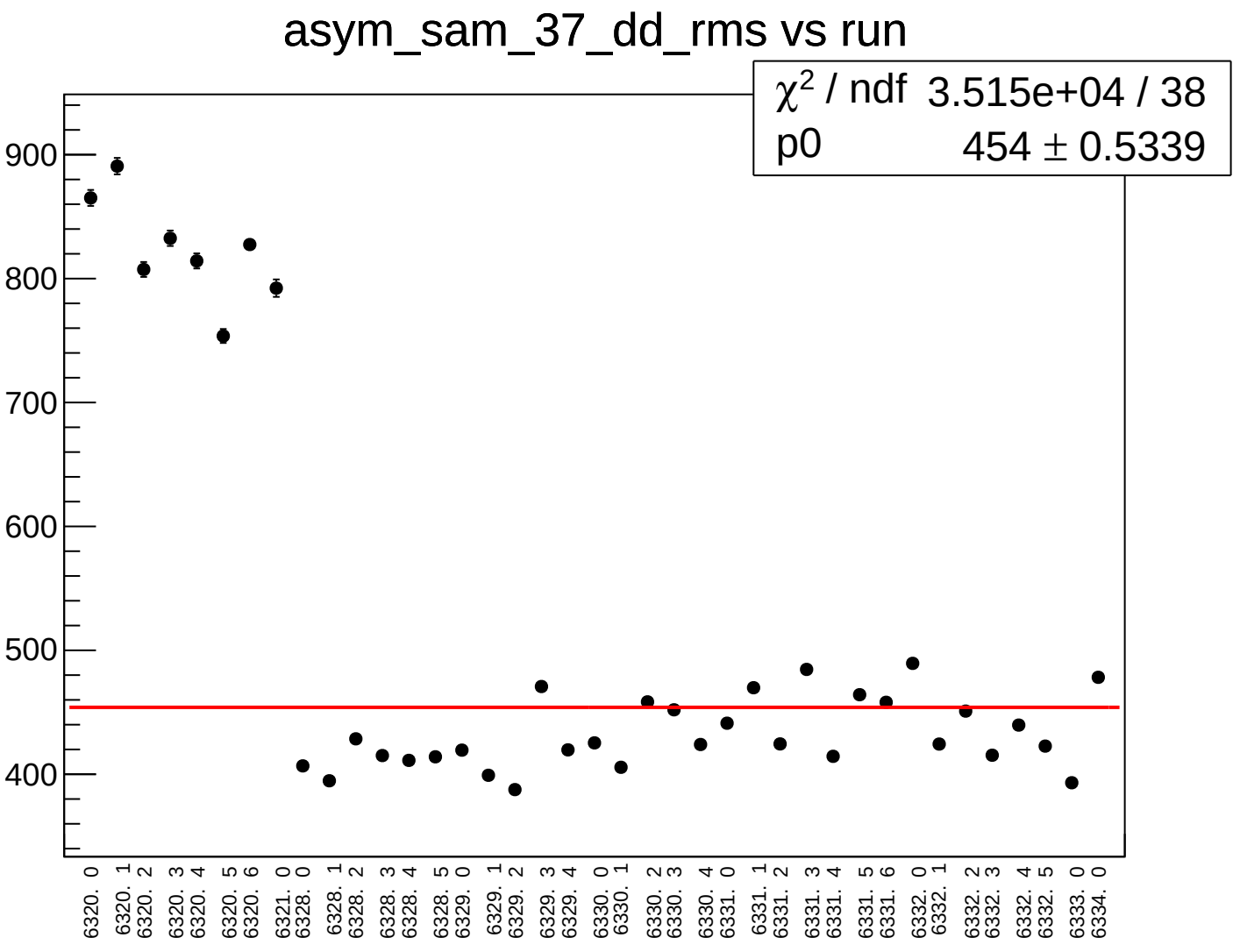

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.036e+04 / 38
p0 70.15 ± 0.08167
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

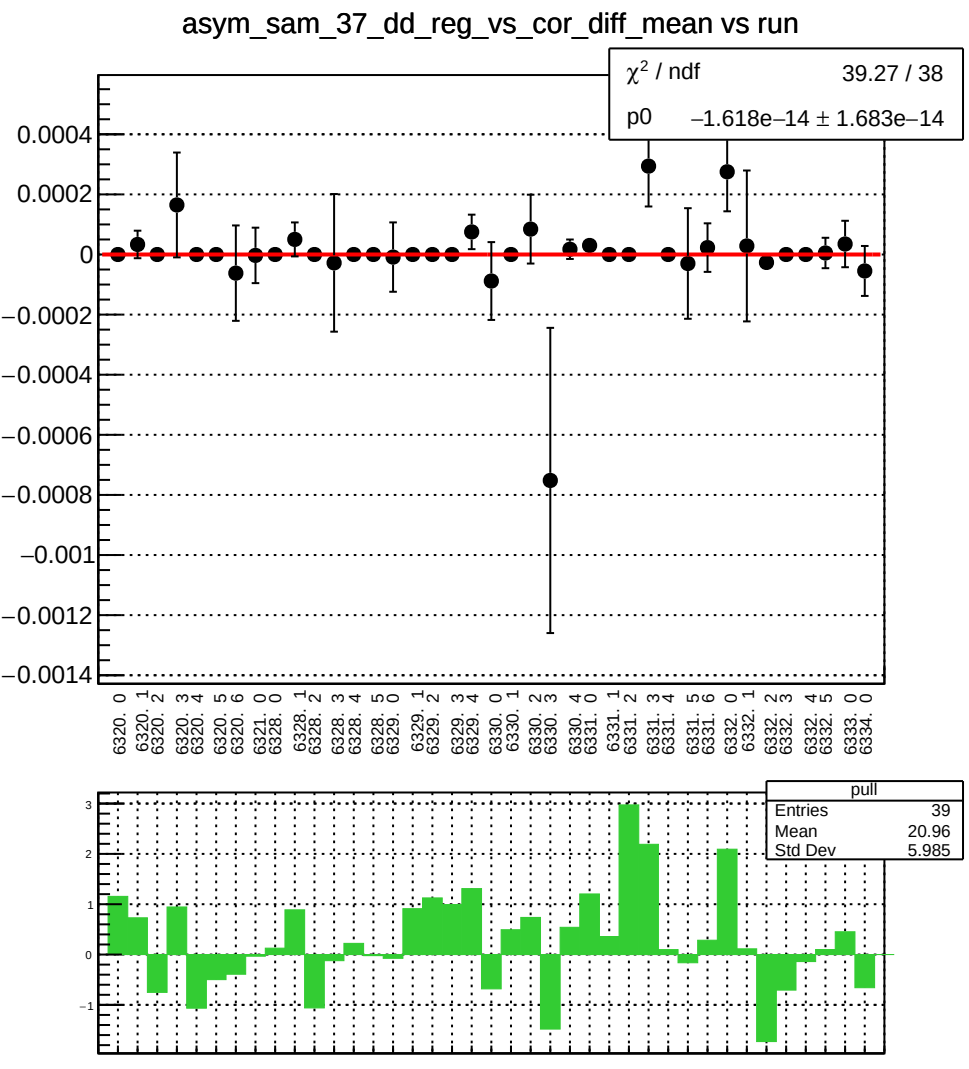

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.89 / 38
p0 −789.8 ± 758.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03512
Std Dev 0.9586
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

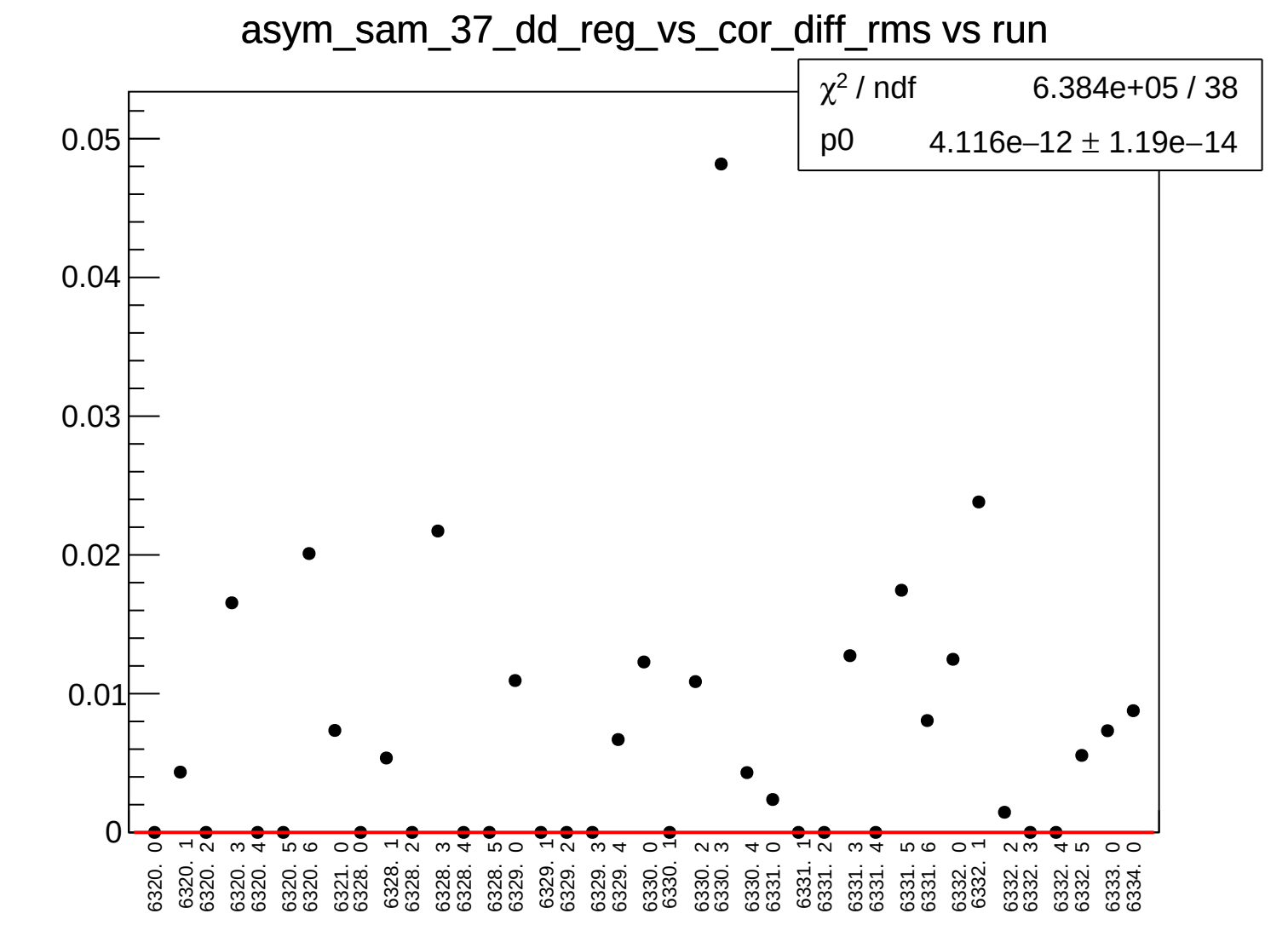

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.044e+04 / 38
p0 457.7 ± 0.5366
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

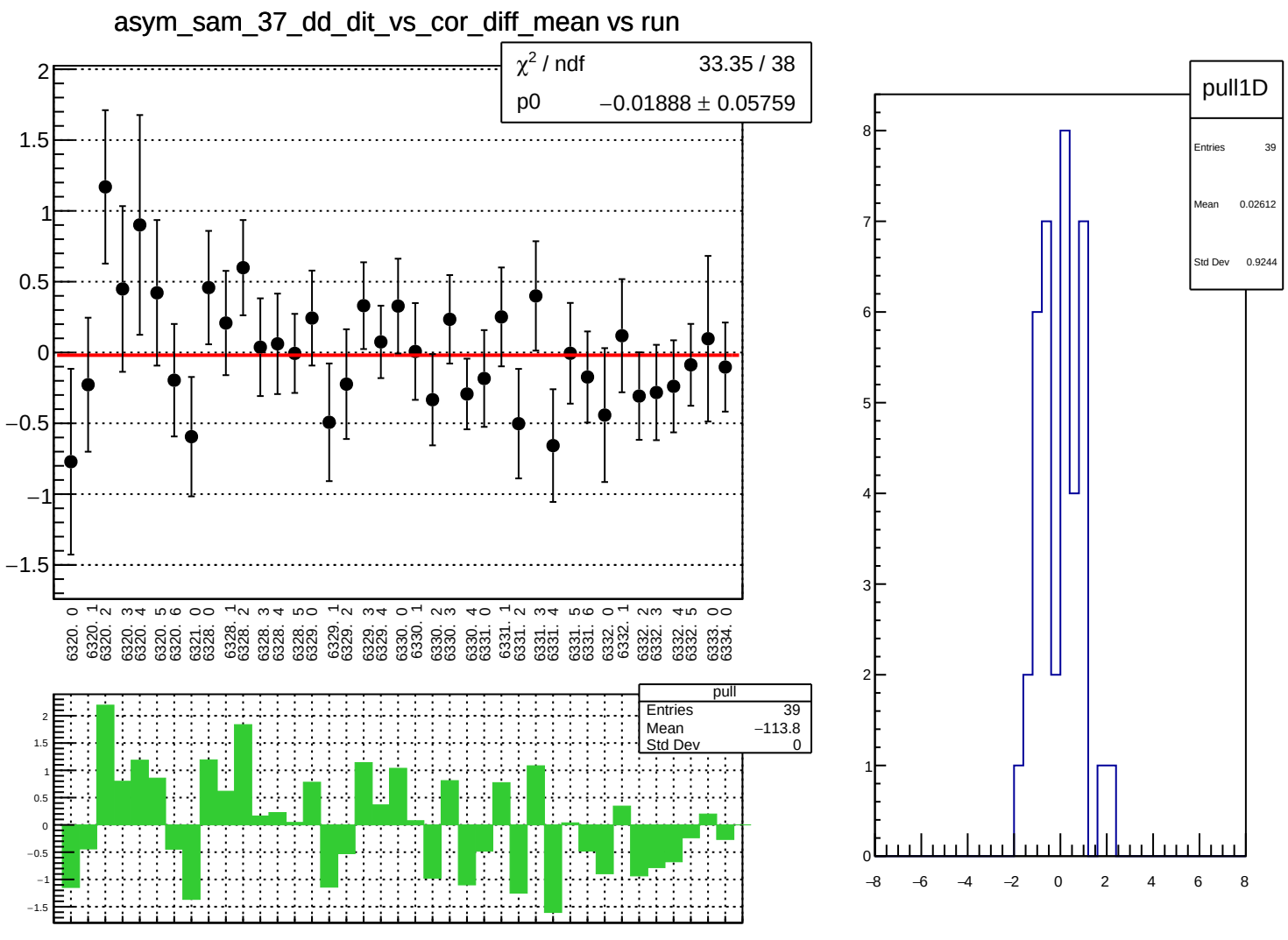

asym_sam_37_dd_mean vs run
χ² / ndf 38.27 / 38
p0 784.9 ± 755.1
pull
Entries 39
Mean −43.72
Std Dev 0

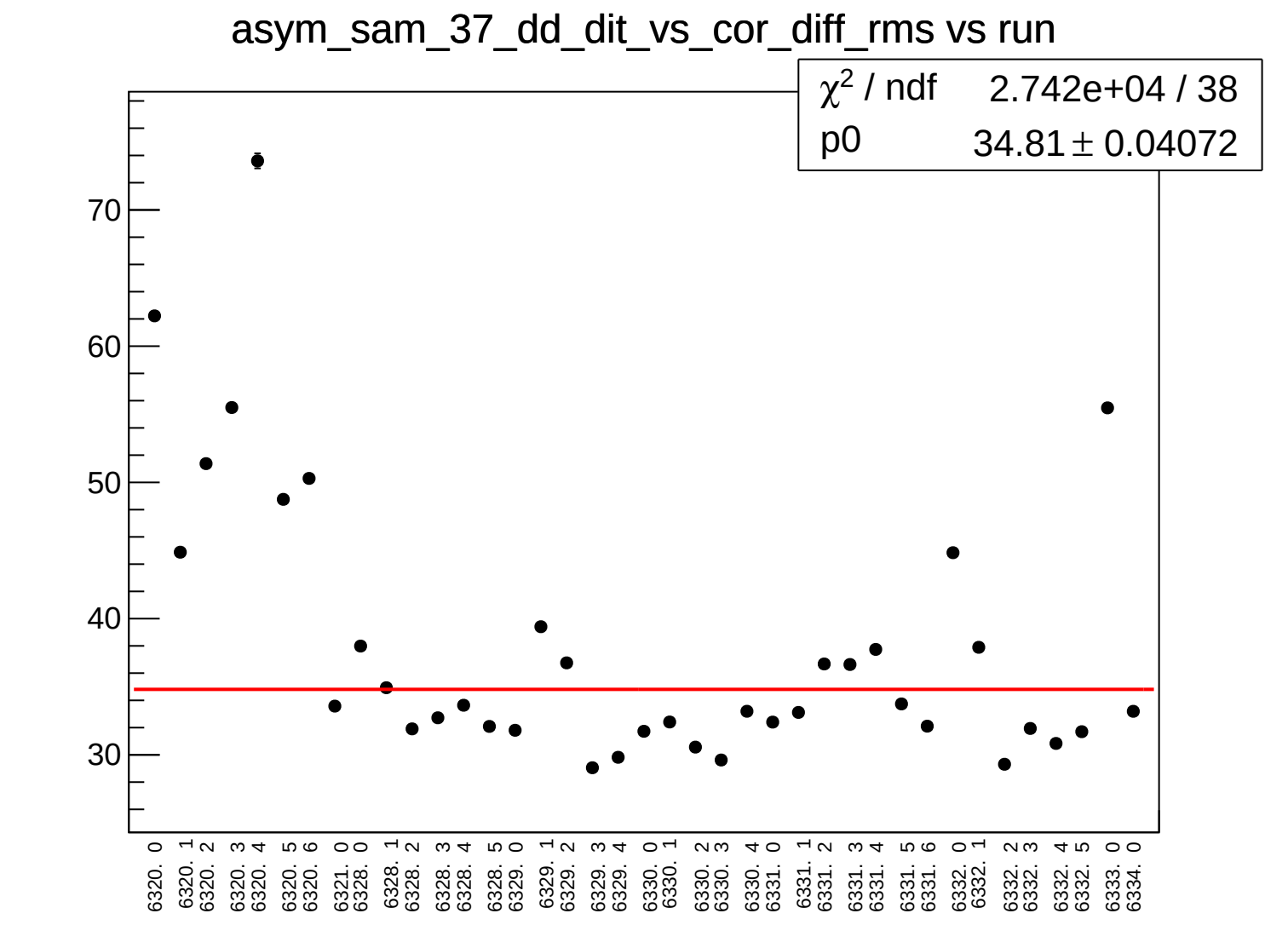

pull1D
Entries 39
Mean 0.04259
Std Dev 0.9896

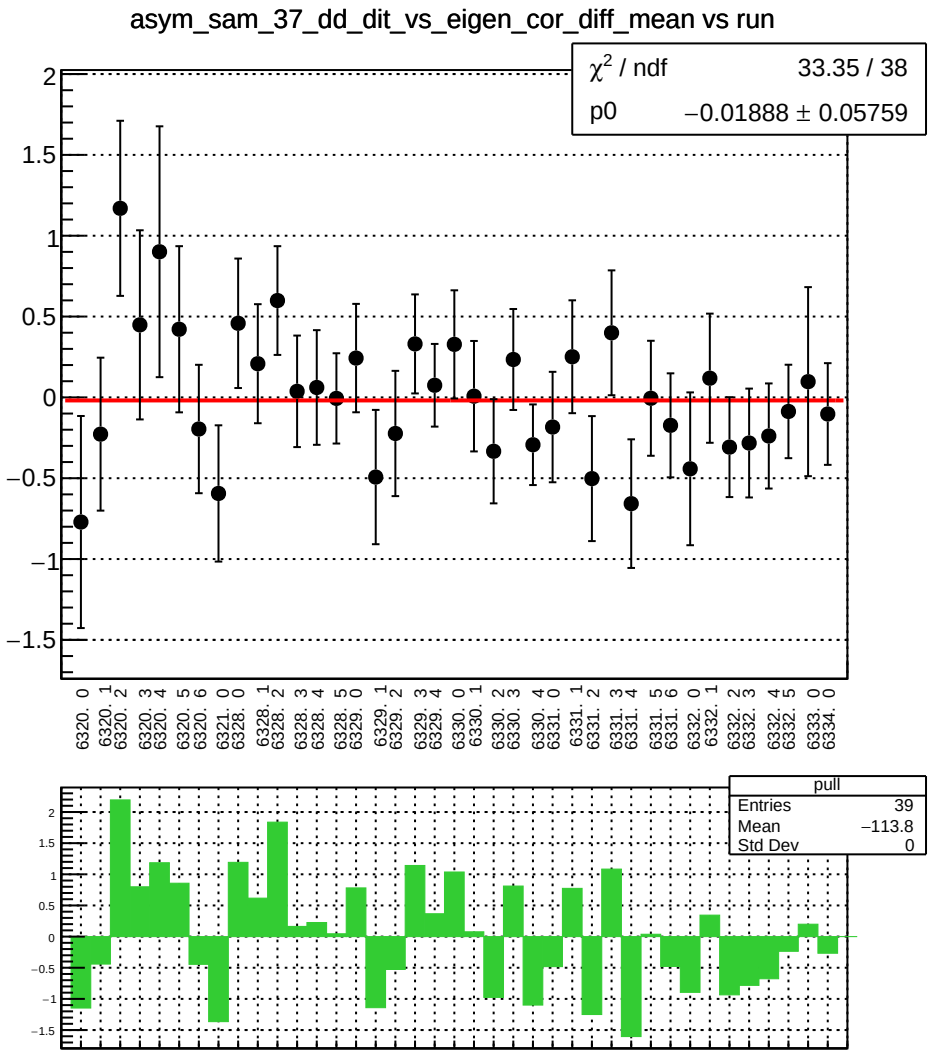

asym_sam_37_dd_rms vs run
χ^2 / ndf 3.515e+04 / 38
p0 454 ± 0.5339
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

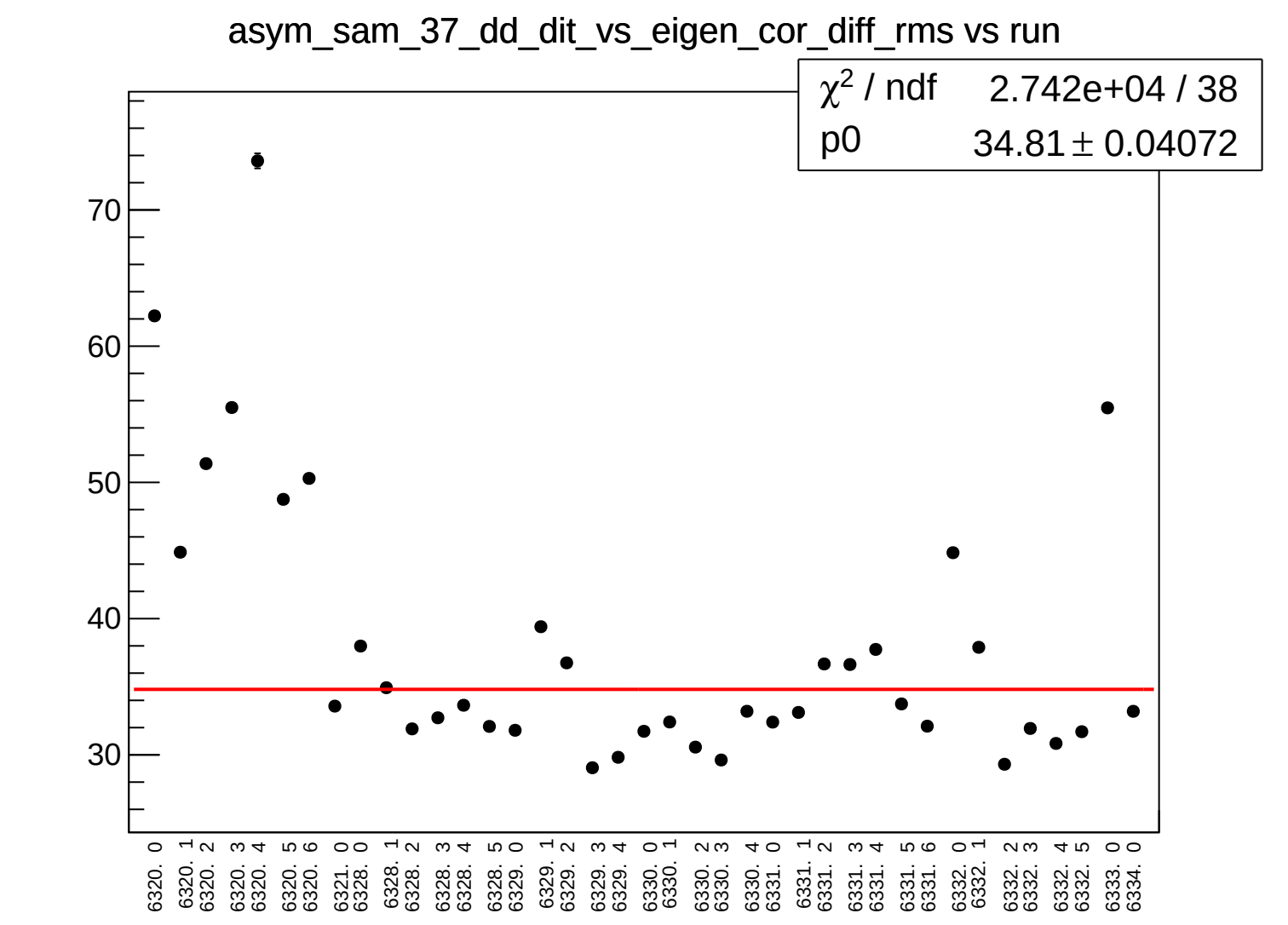

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.27 / 38
p0 −1.618e−14 ± 1.683e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.96
Std Dev 5.985
3
2
1
0
−1
pull1D
Entries 39
Mean 0.2684
Std Dev 0.9669
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

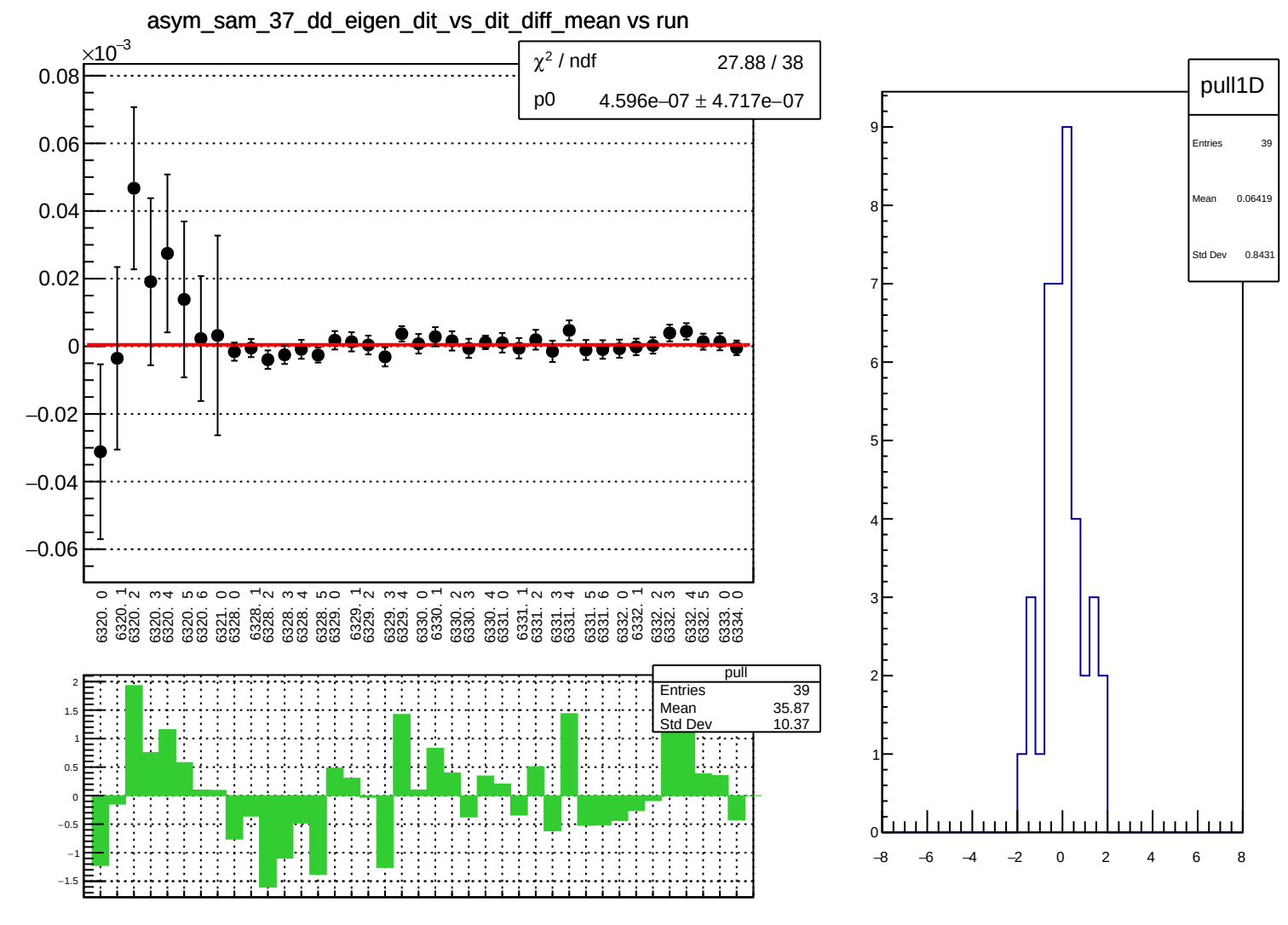

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.384e+05 / 38
p0 4.116e−12 ± 1.19e−14
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

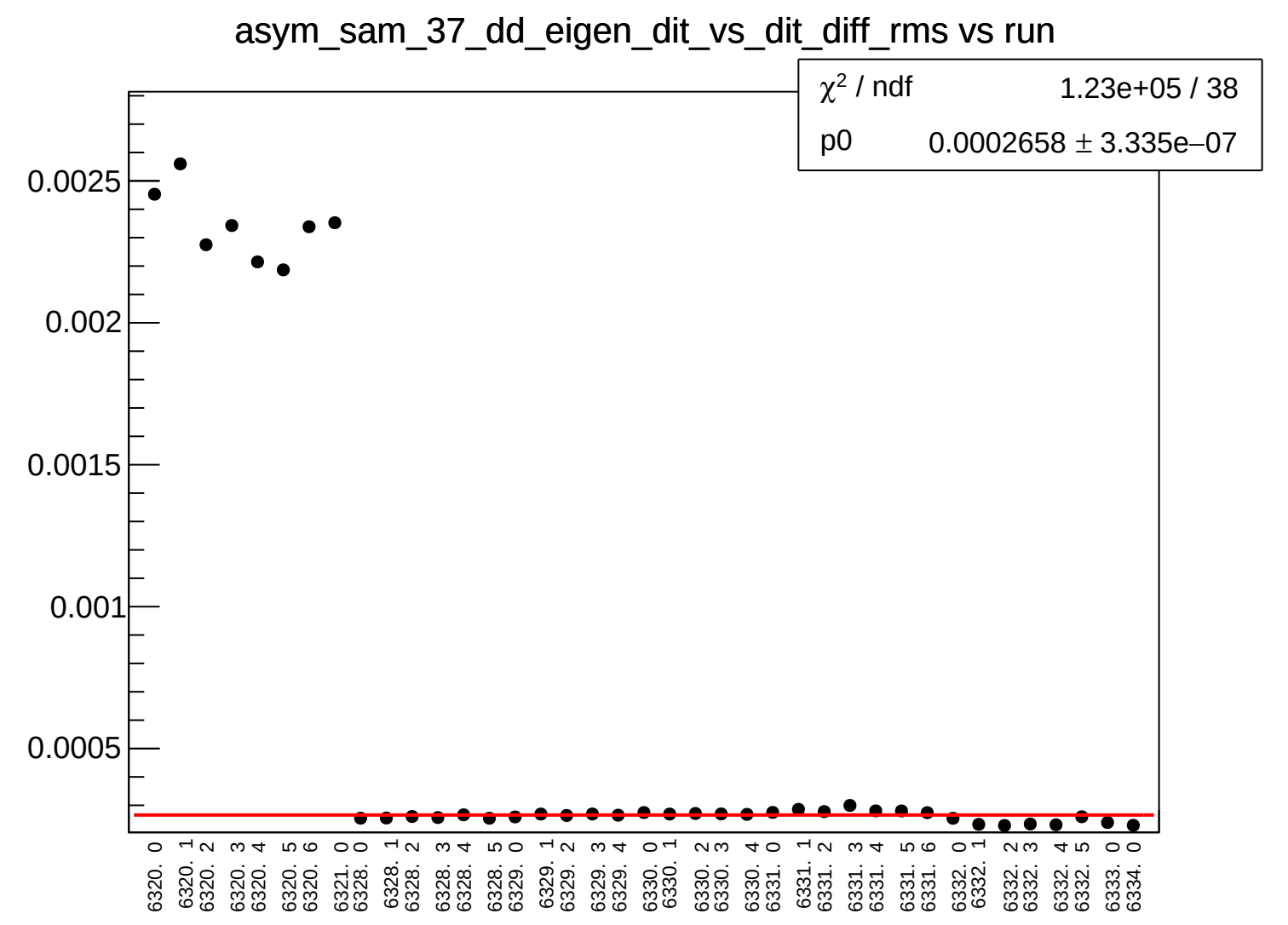

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.35 / 38
p0 −0.01888 ± 0.05759
2
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −113.8
Std Dev 0
pull1D
Entries 39
Mean 0.02612
Std Dev 0.9244
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

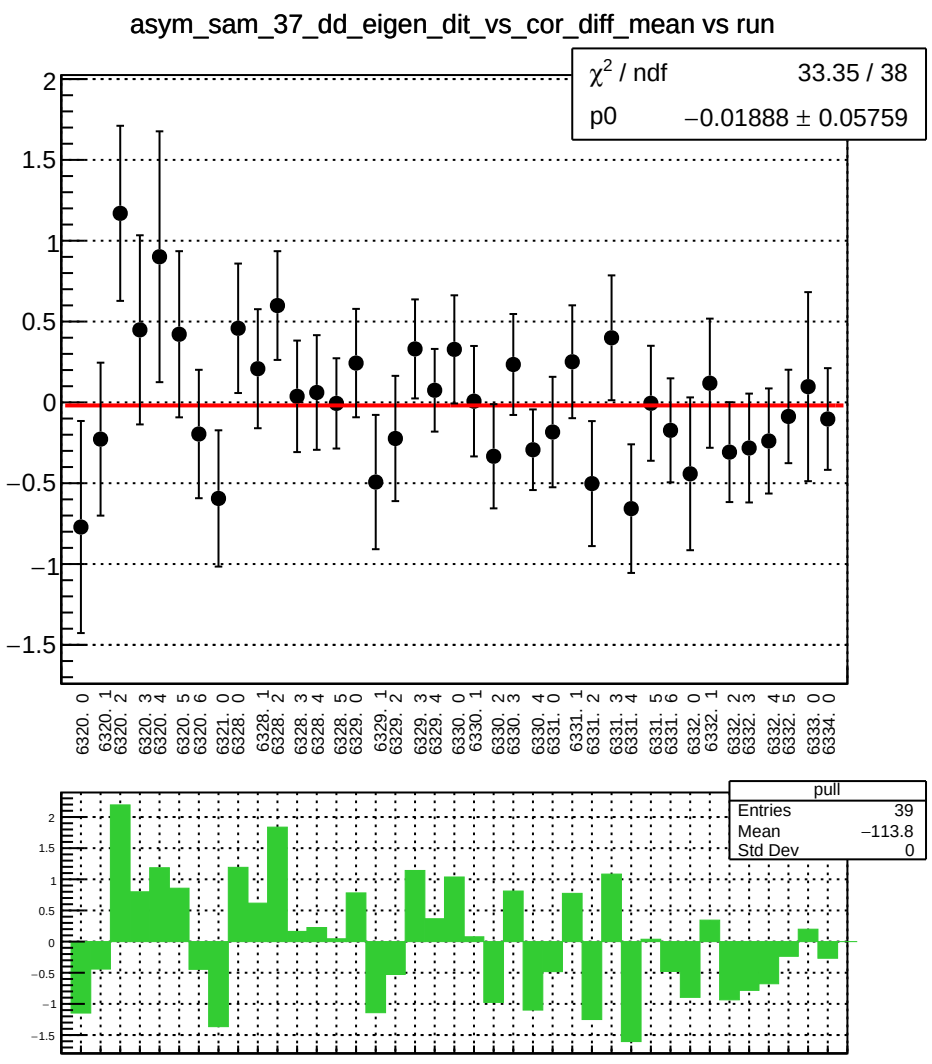

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.742e+04 / 38
p0 34.81 ± 0.04072
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

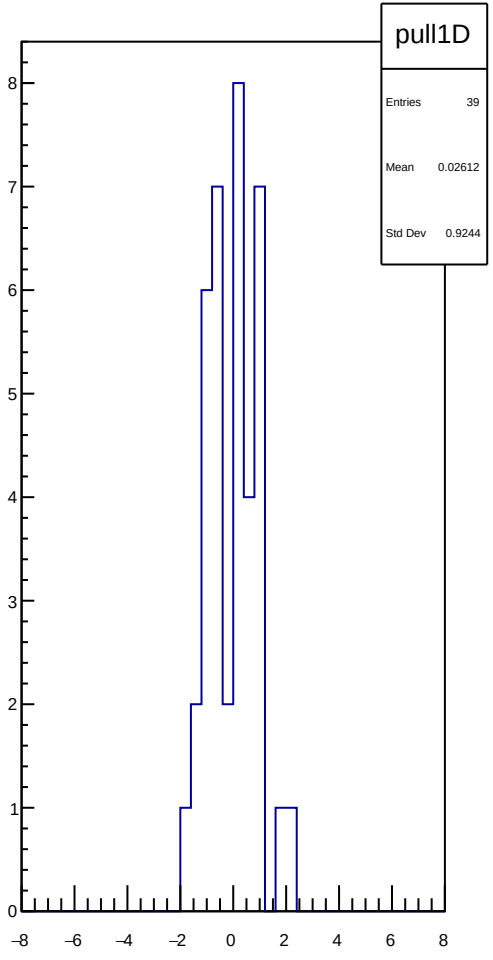

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.35 / 38
p0 −0.01888 ± 0.05759
pull
Entries 39
Mean −113.8
Std Dev 0
pull1D
Entries 39
Mean 0.02612
Std Dev 0.9244

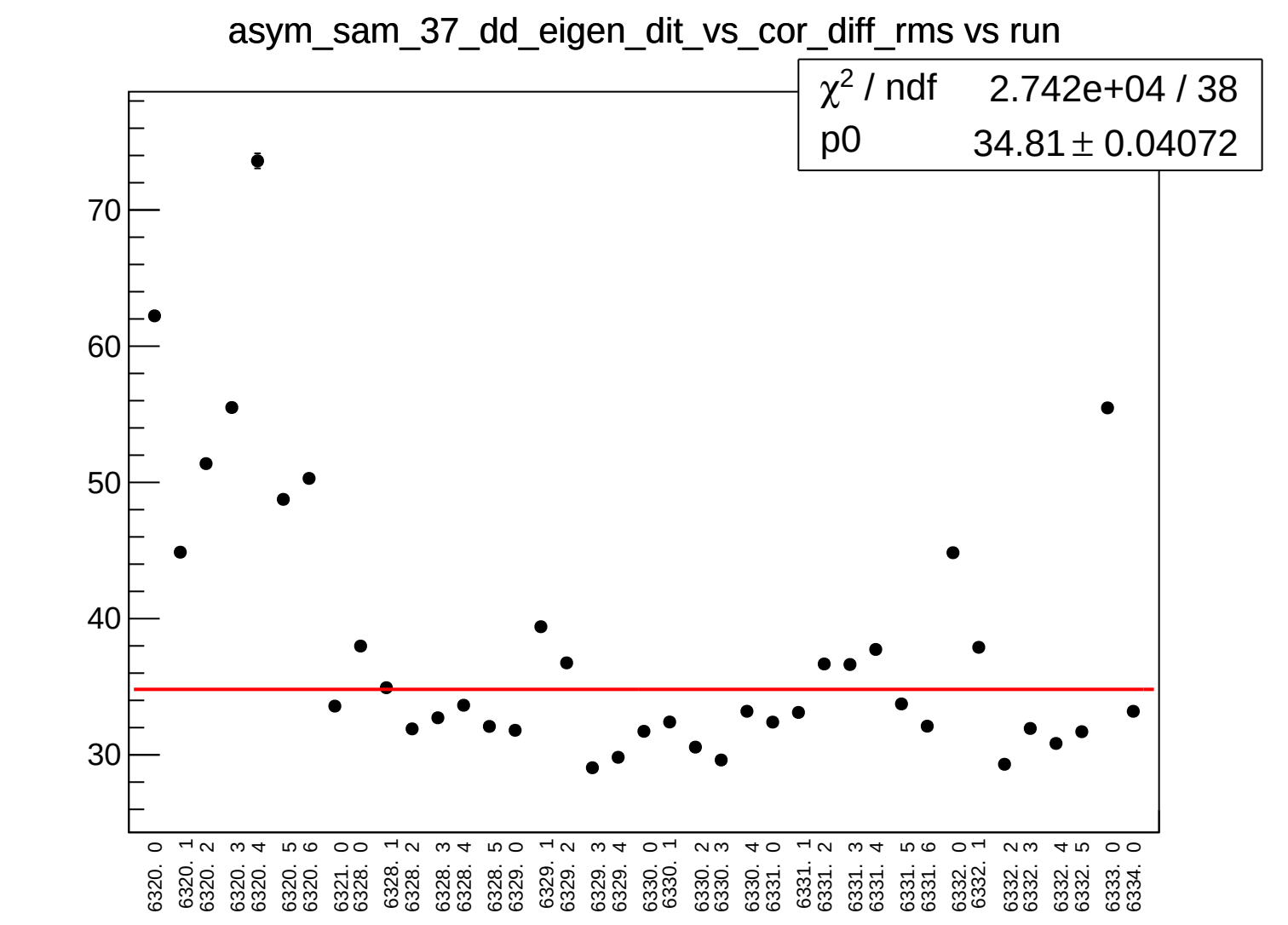

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.742e+04 / 38
p0 34.81 ± 0.04072
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

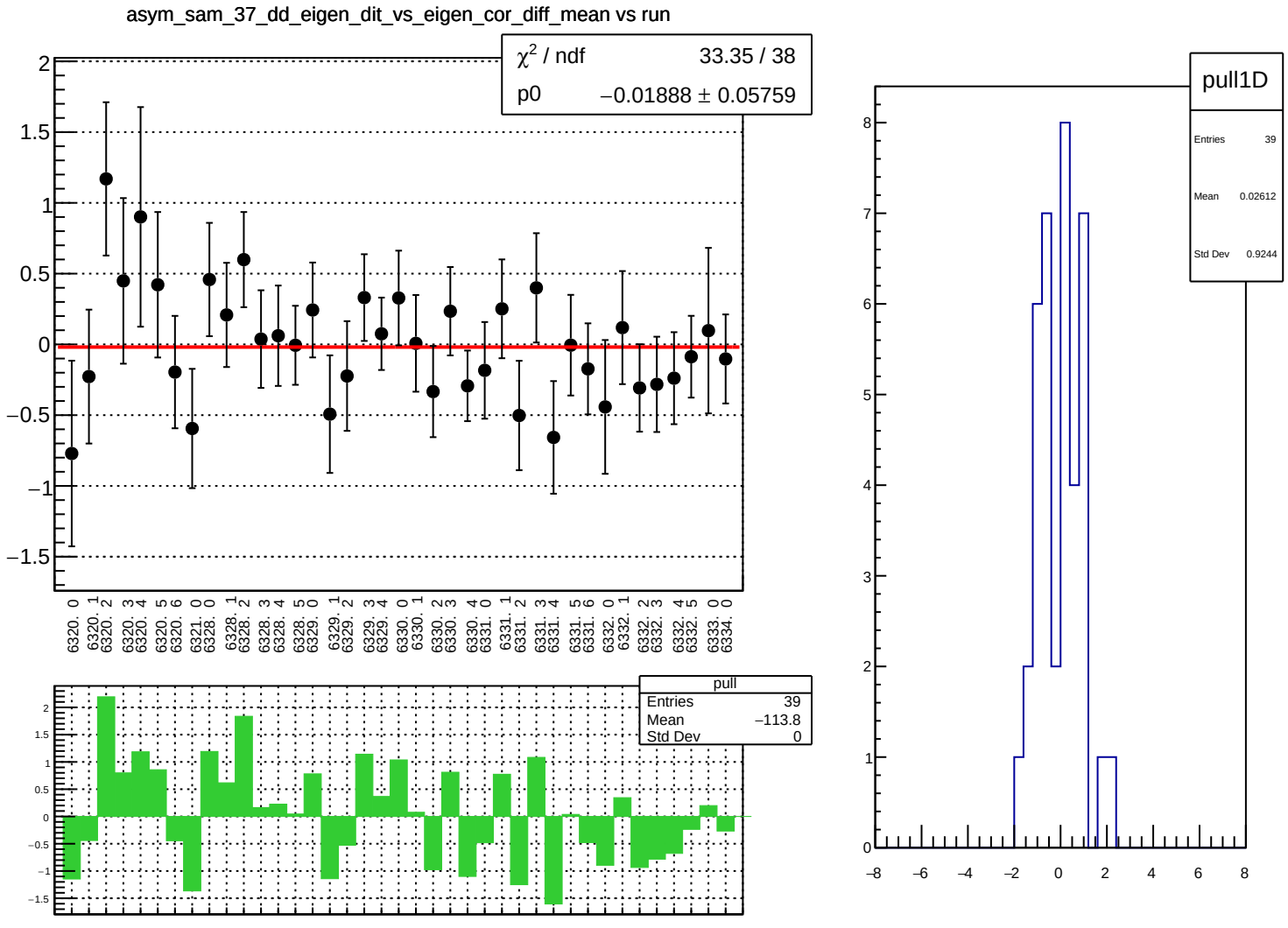

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.88 / 38
p0 4.596e−07 ± 4.717e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.87
Std Dev 10.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.06419
Std Dev 0.8431
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

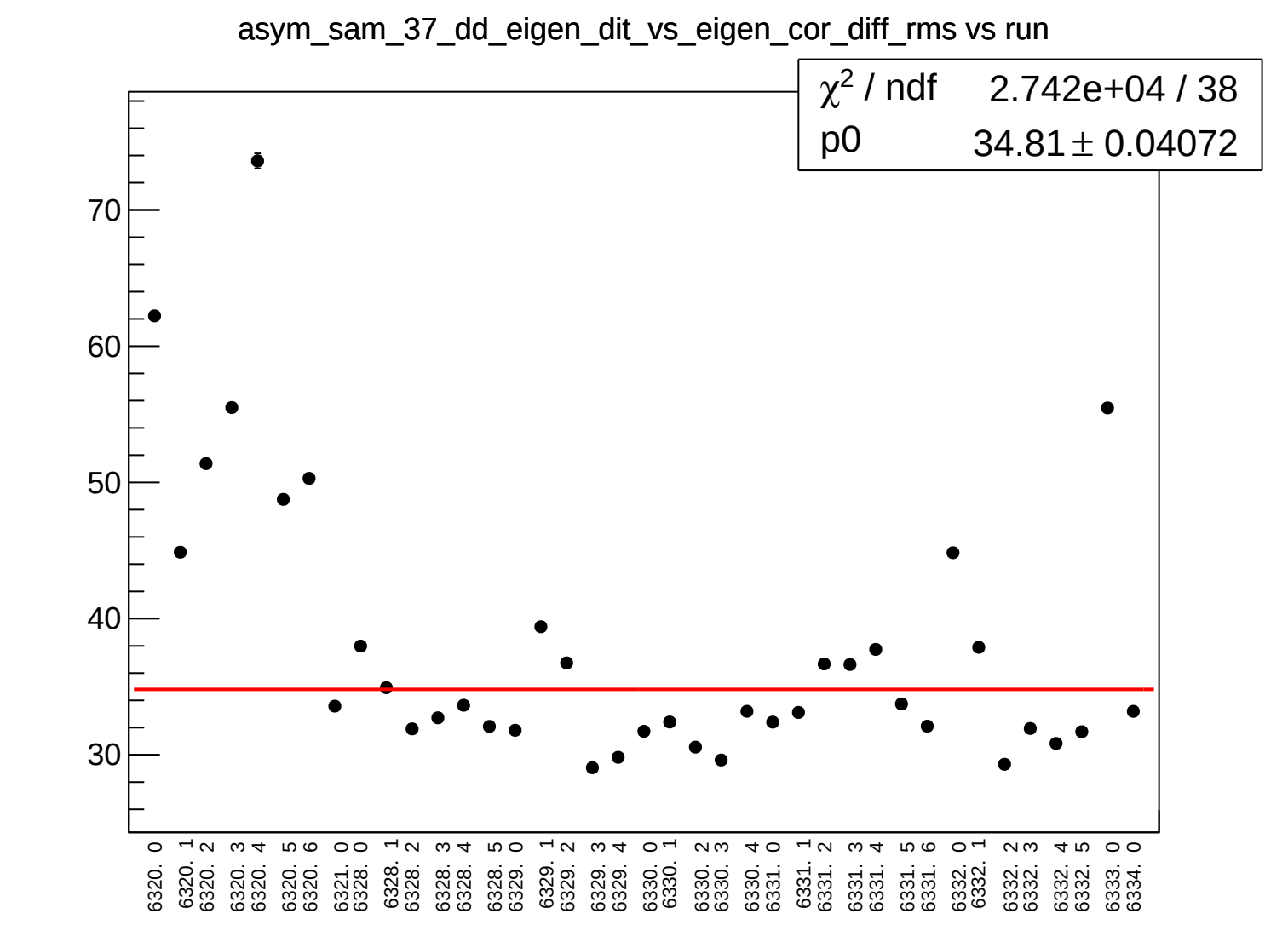

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.23e+05 / 38
p0 0.0002658 ± 3.335e−07
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

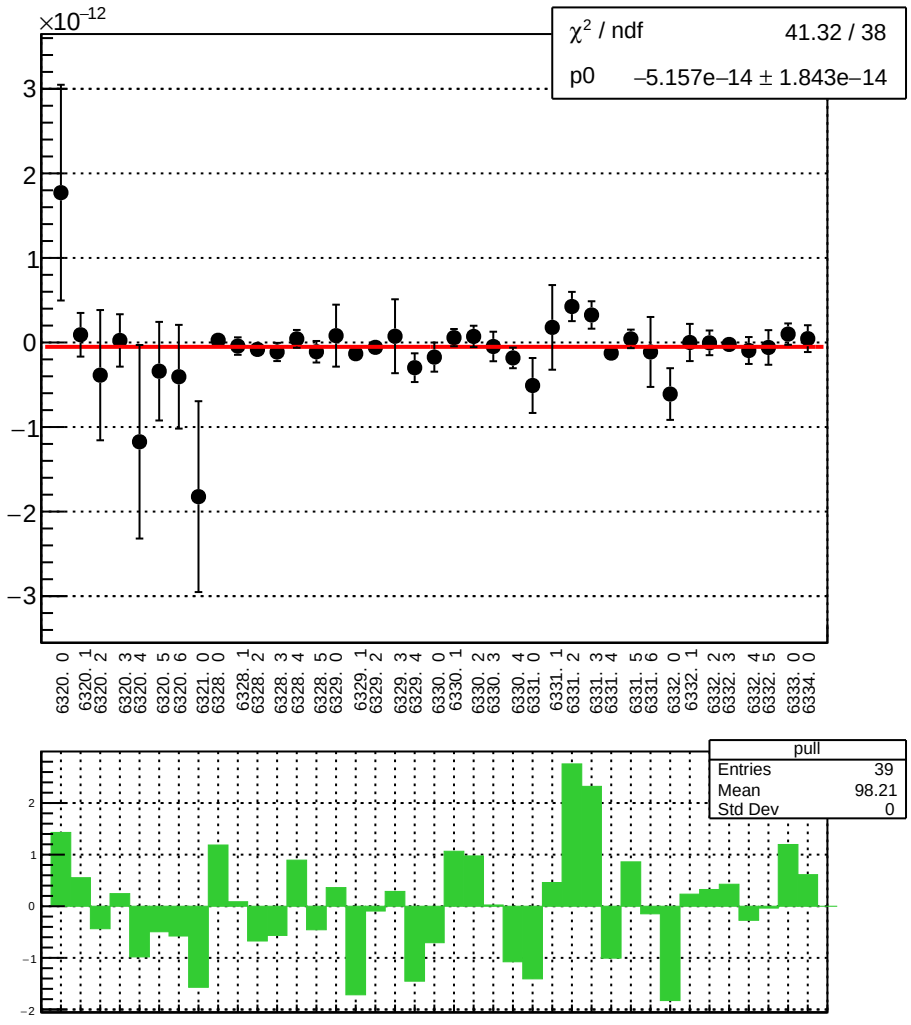

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.35 / 38
p0 −0.01888 ± 0.05759
pull
Entries 39
Mean −113.8
Std Dev 0

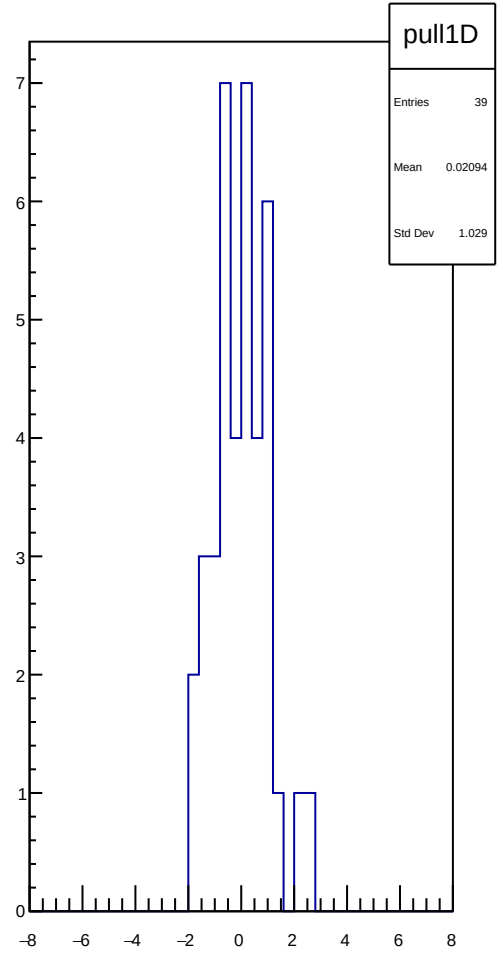

pull1D
Entries 39
Mean 0.02612
Std Dev 0.9244

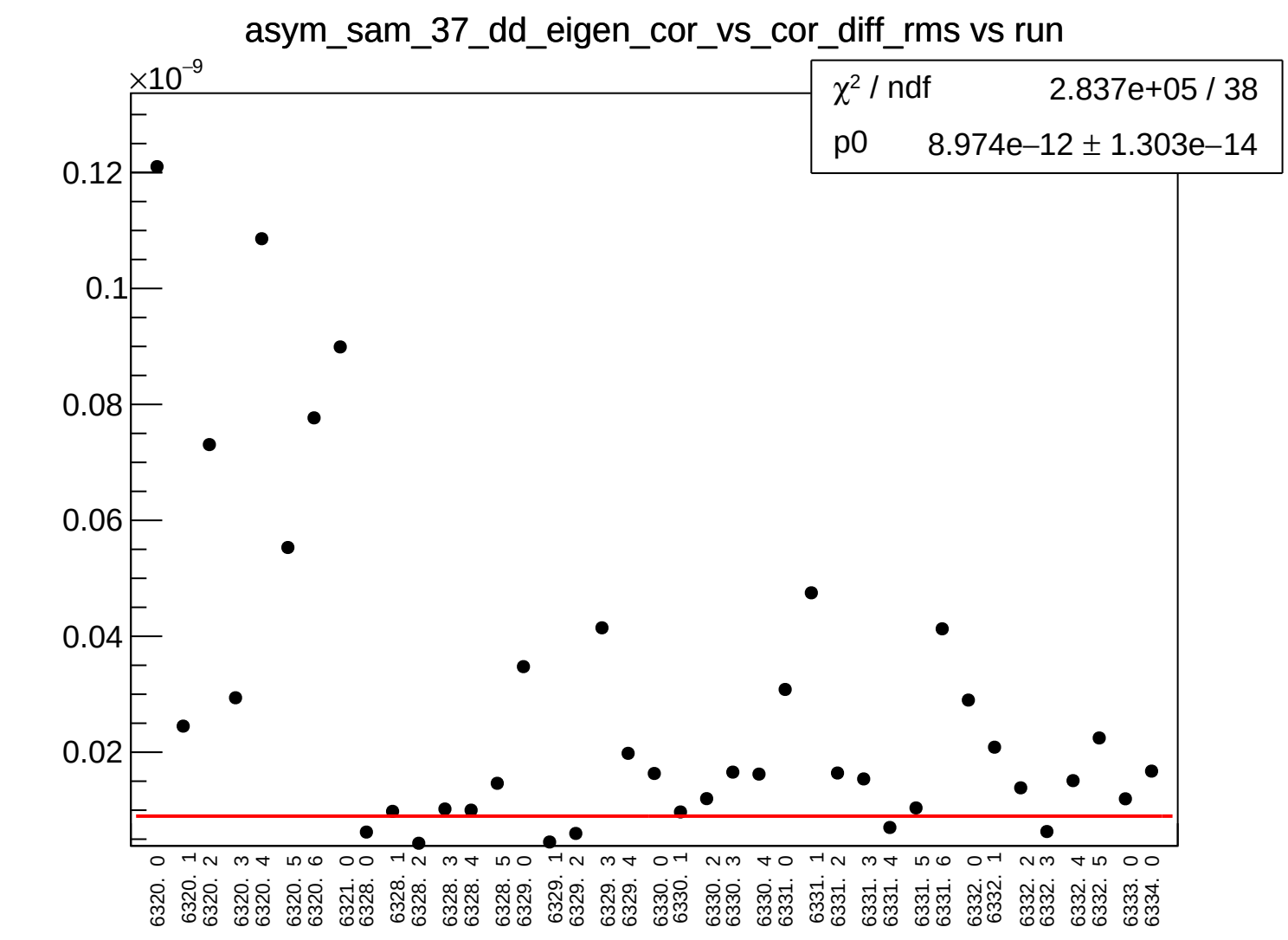

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.742e+04 / 38
p0 34.81 ± 0.04072
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

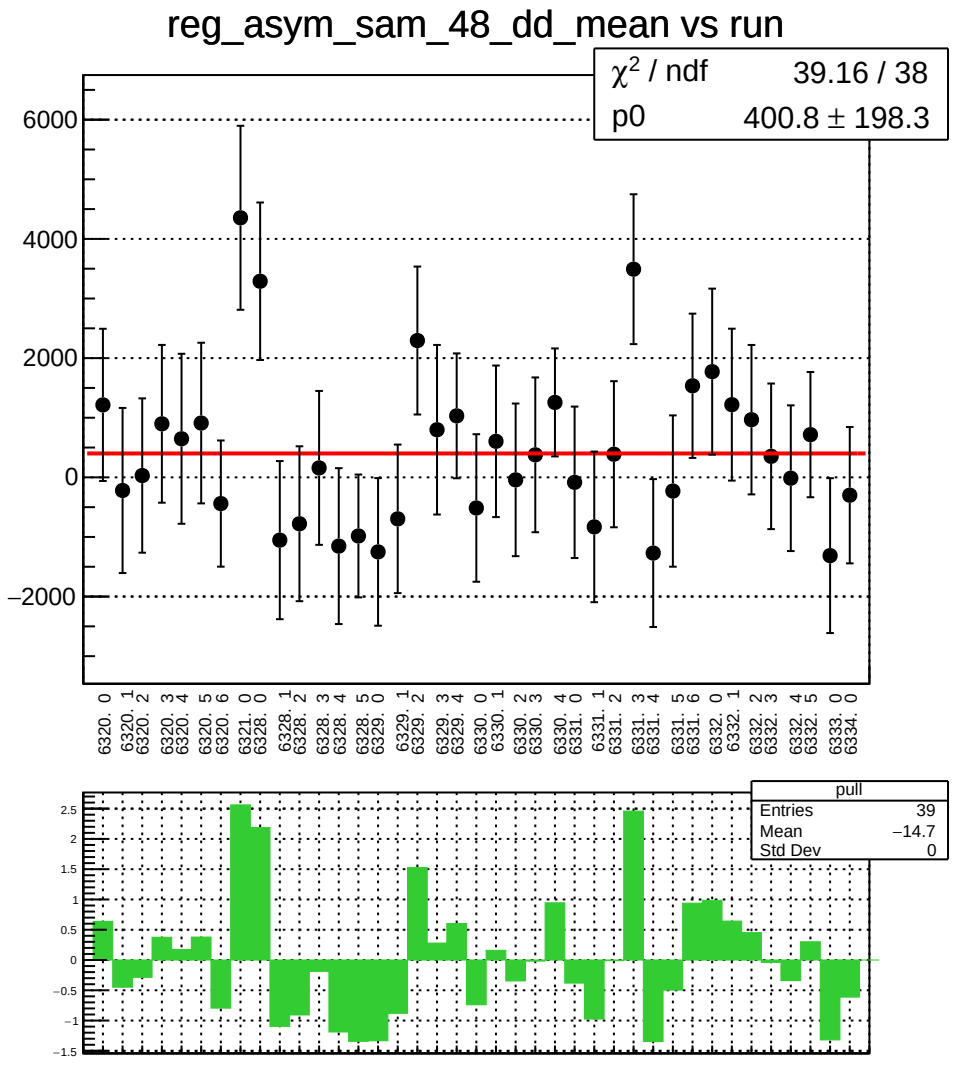

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.35 / 38
p0 −0.01888 ± 0.05759
pull
Entries 39
Mean −113.8
Std Dev 0
pull1D
Entries 39
Mean 0.02612
Std Dev 0.9244

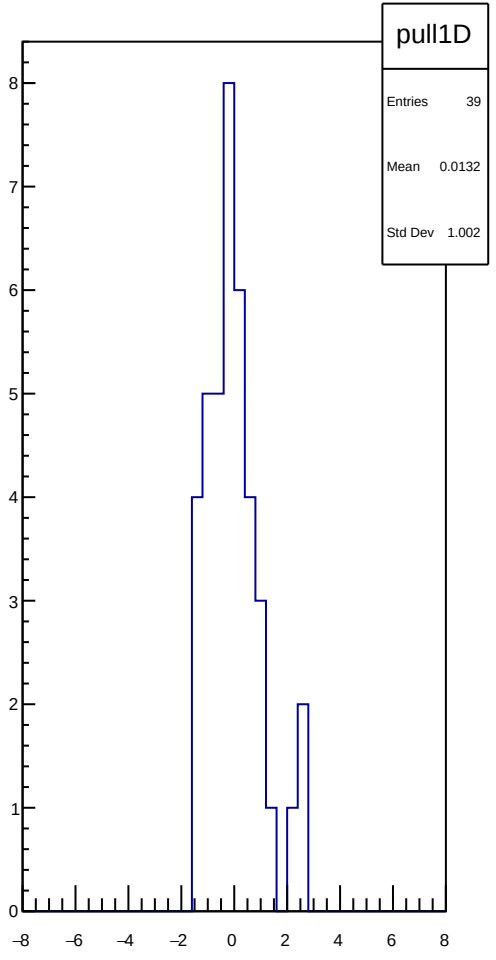

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.742e+04 / 38
p0 34.81 ± 0.04072
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

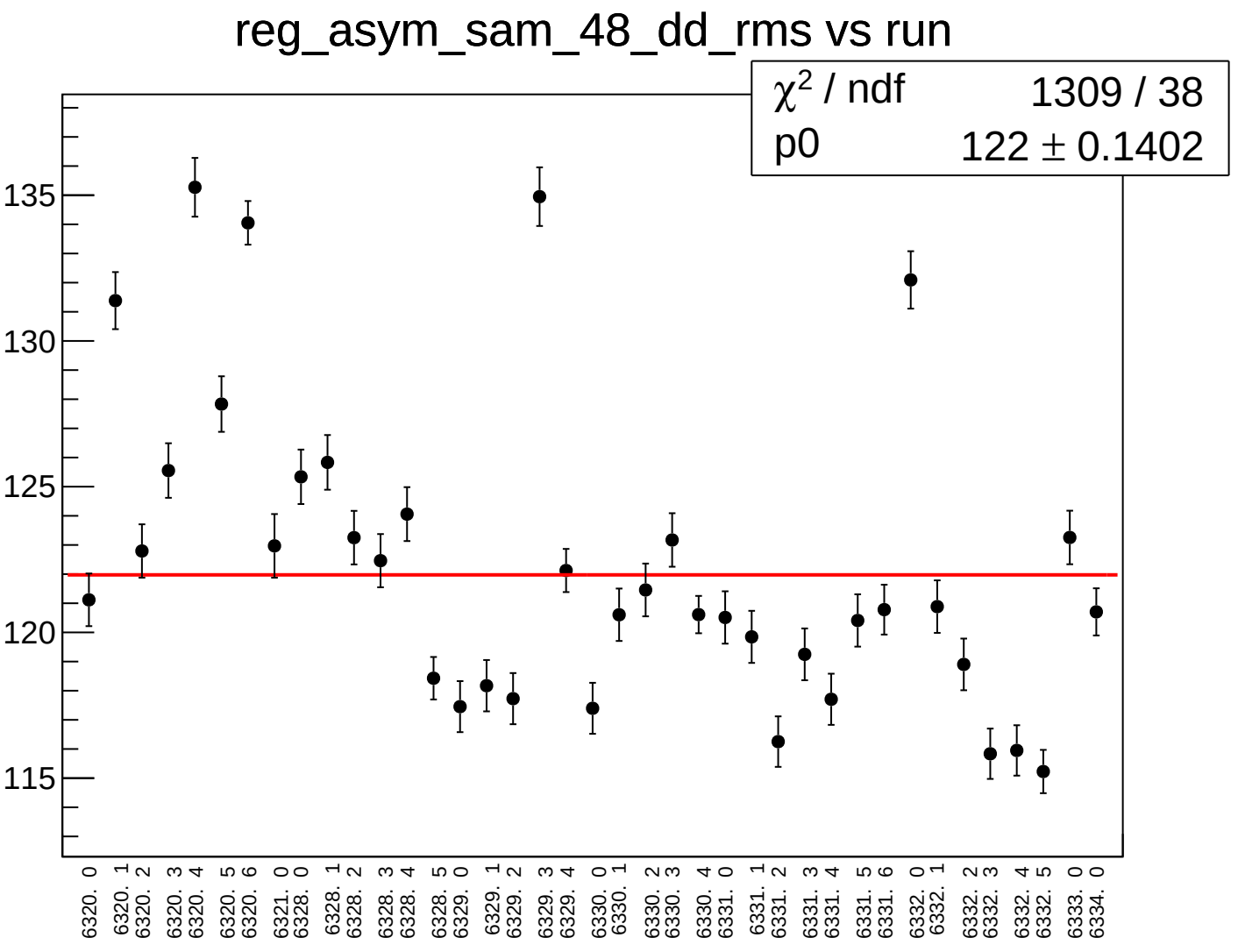

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.32 / 38
p0 −5.157e−14 ± 1.843e−14
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 98.21
Std Dev 0
2
1
0
−1
−2

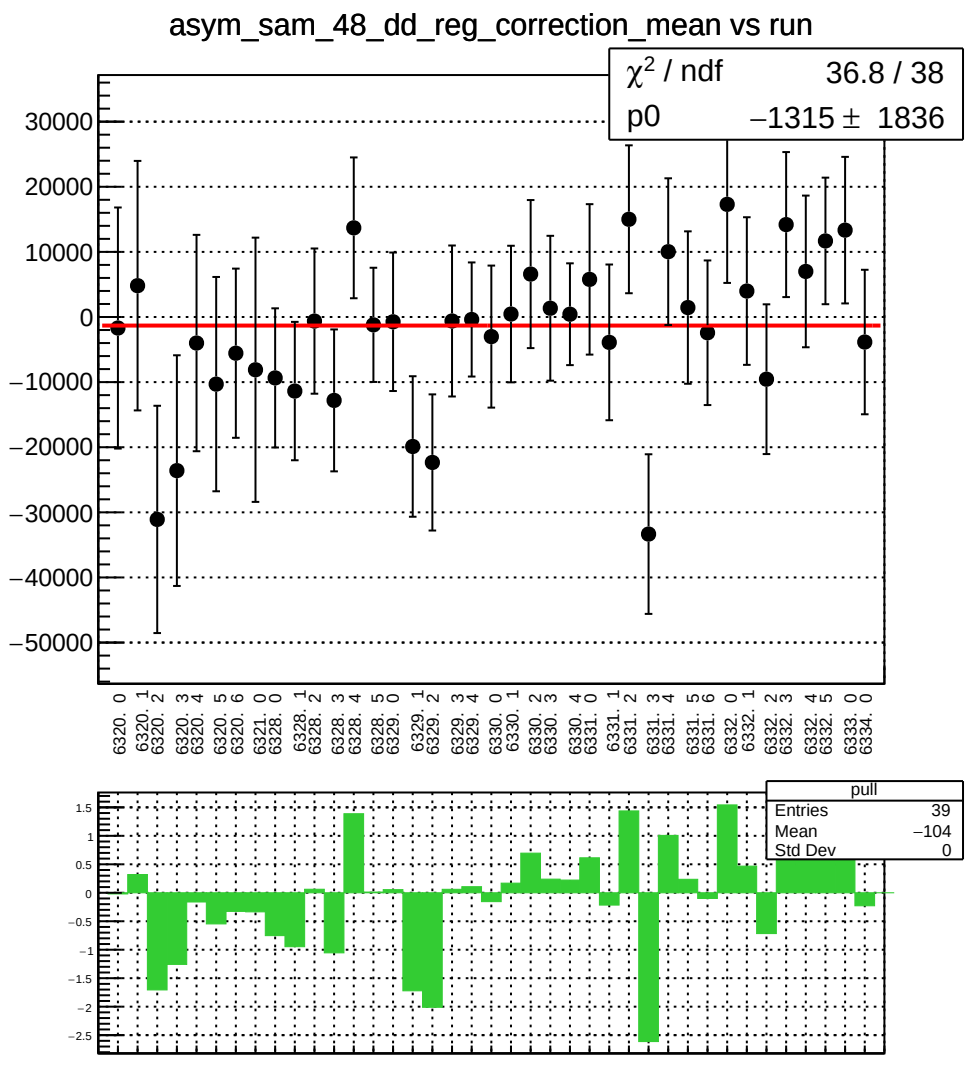

pull1D
Entries 39
Mean 0.02094
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

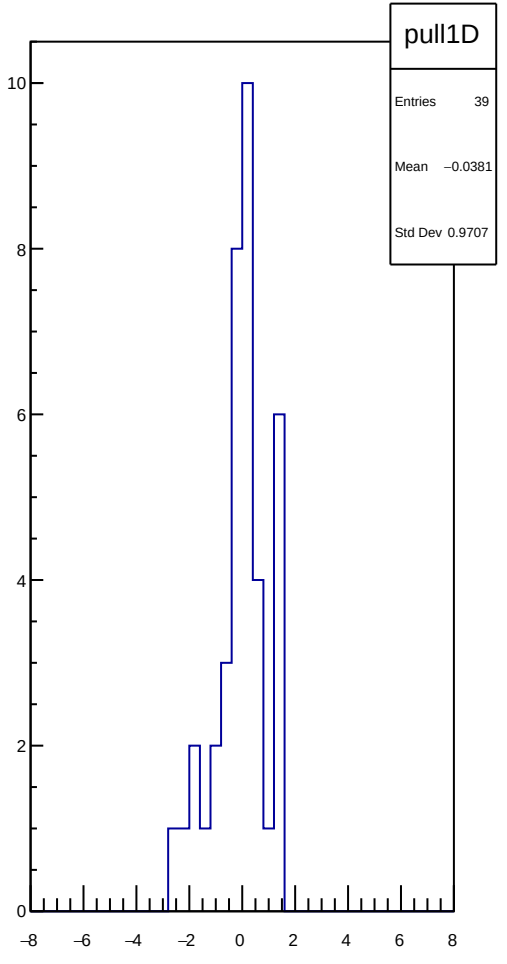

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.837e+05 / 38
p0 8.974e−12 ± 1.303e−14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

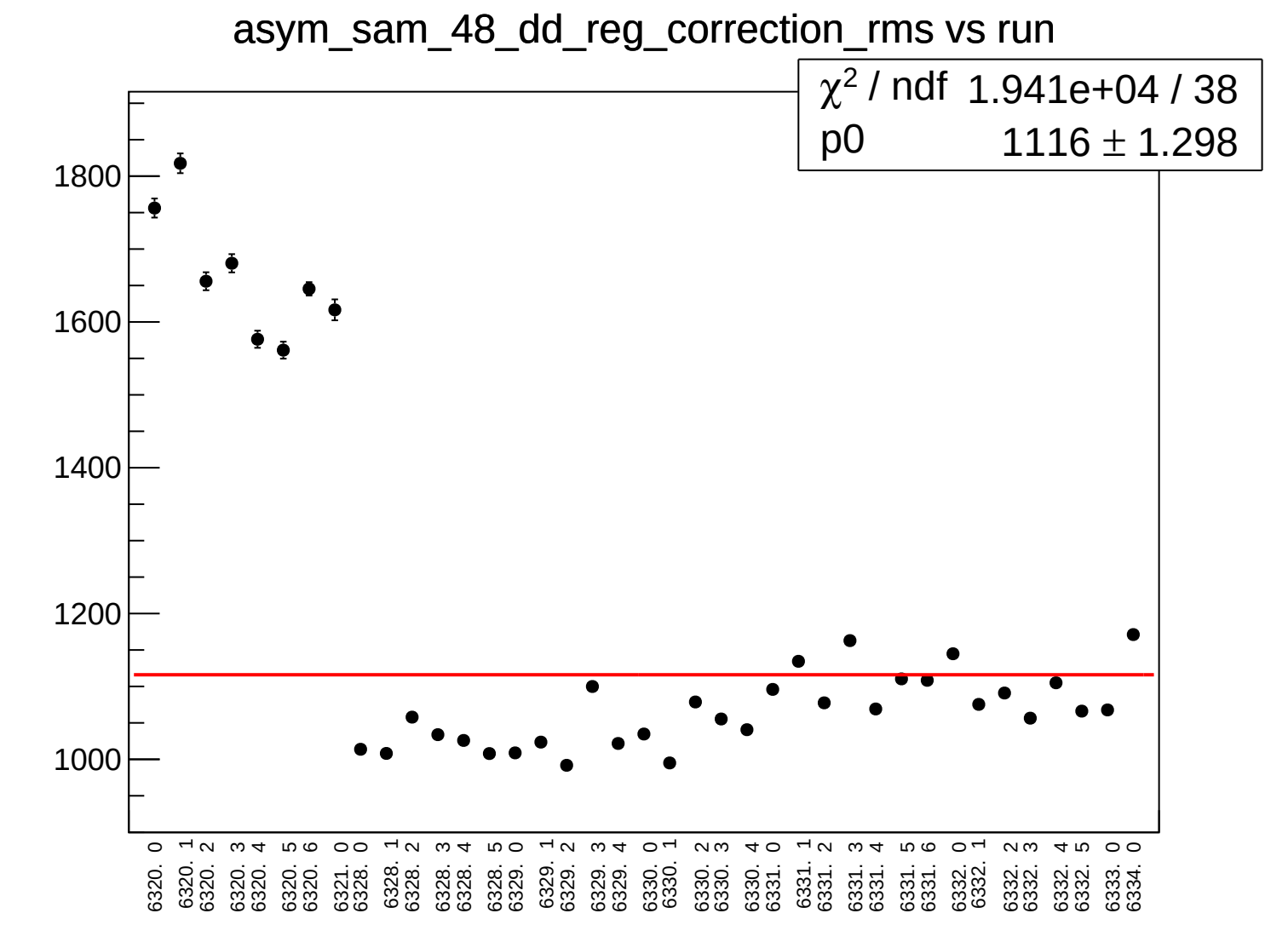

reg_asym_sam_48_dd_mean vs run
χ² / ndf 39.16 / 38
p0 400.8 ± 198.3
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

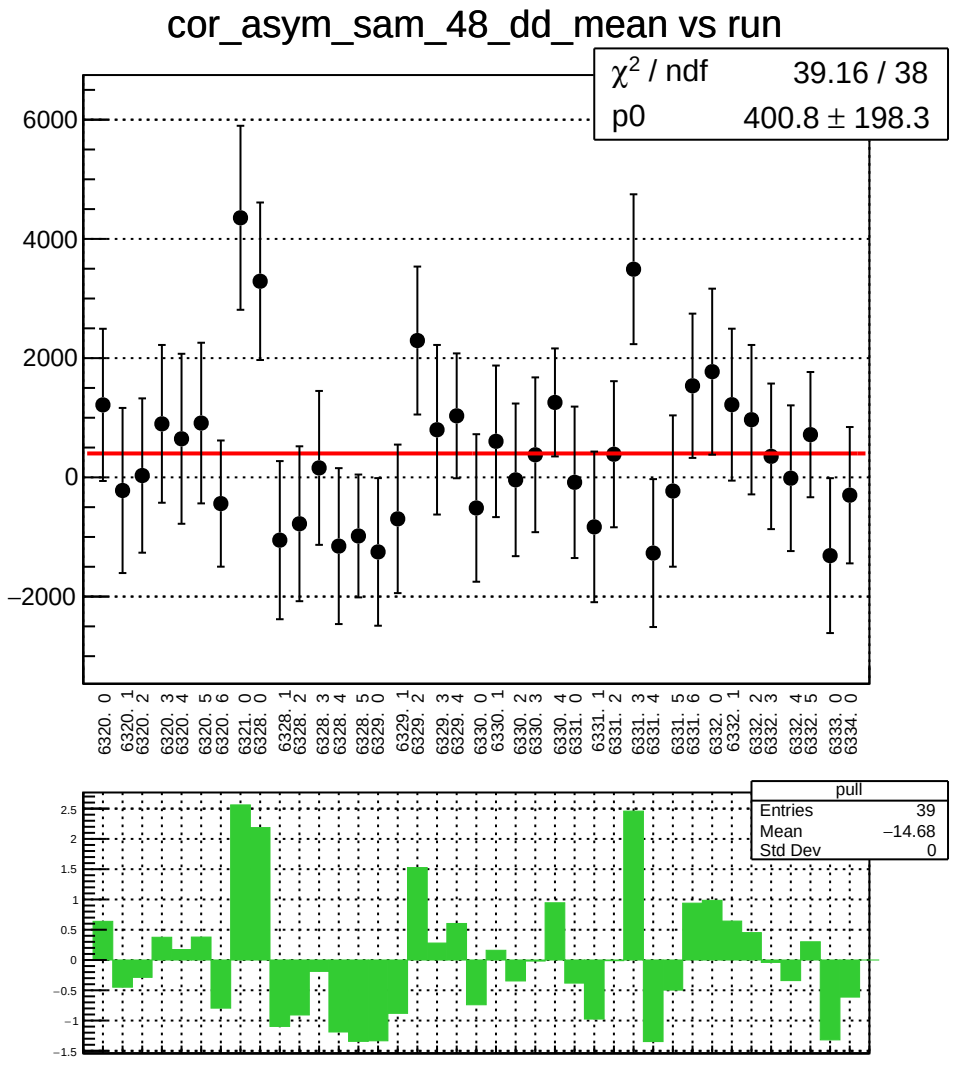

pull1D
Entries 39
Mean 0.0132
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

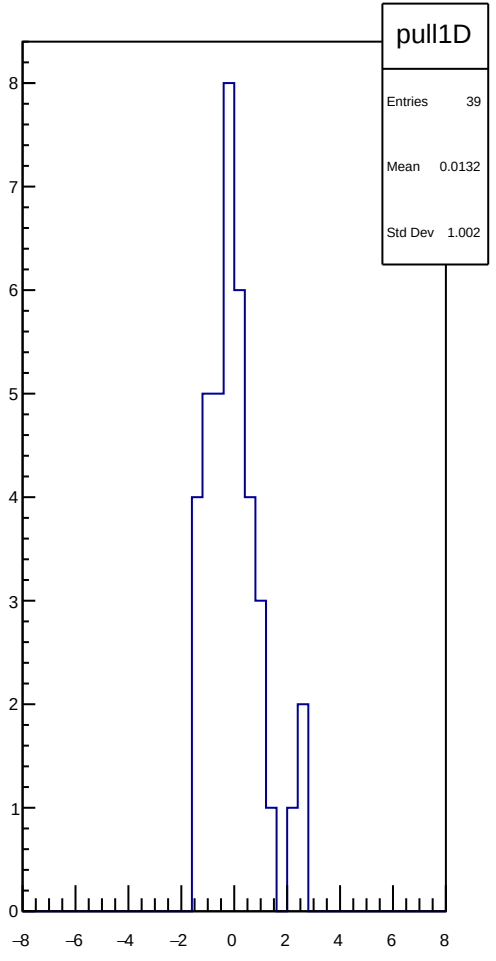

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1309 / 38
p0 122 ± 0.1402
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

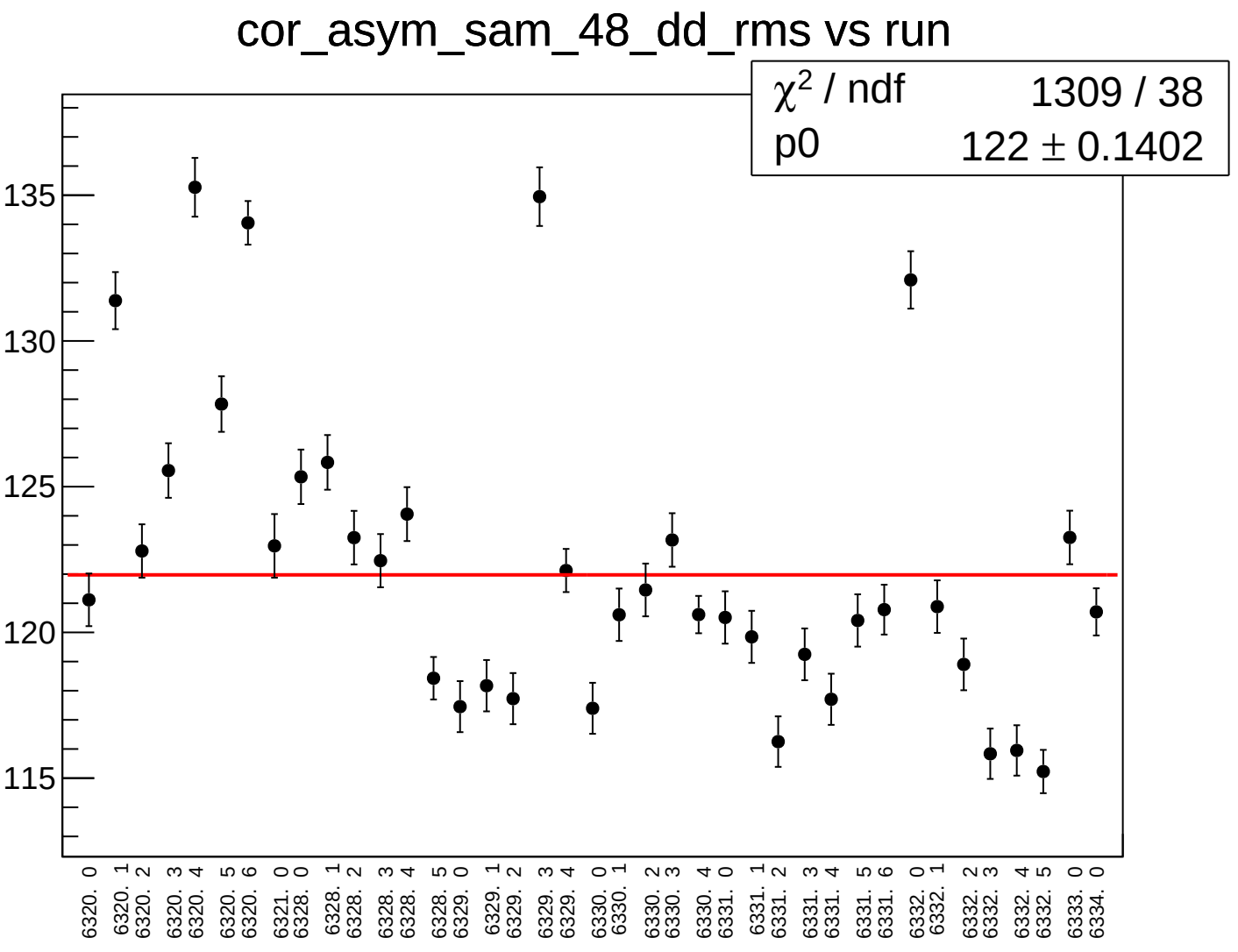

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 36.8 / 38
p0 −1315 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

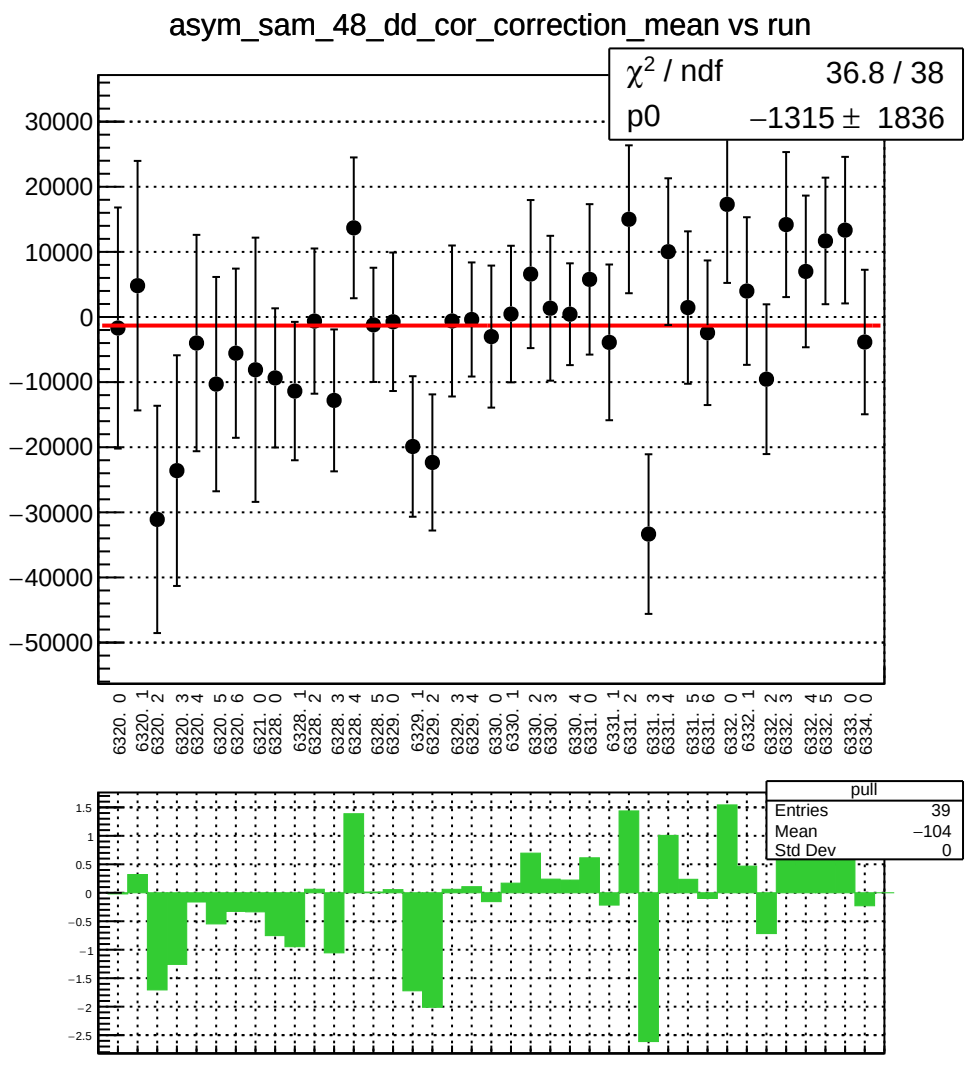

pull1D
Entries 39
Mean −0.0381
Std Dev 0.9707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

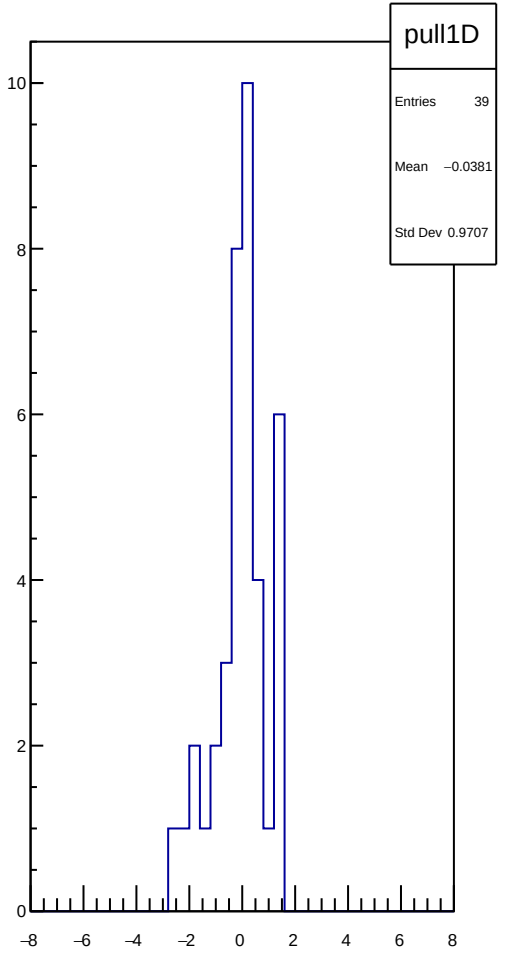

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.941e+04 / 38
p0 1116 ± 1.298
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

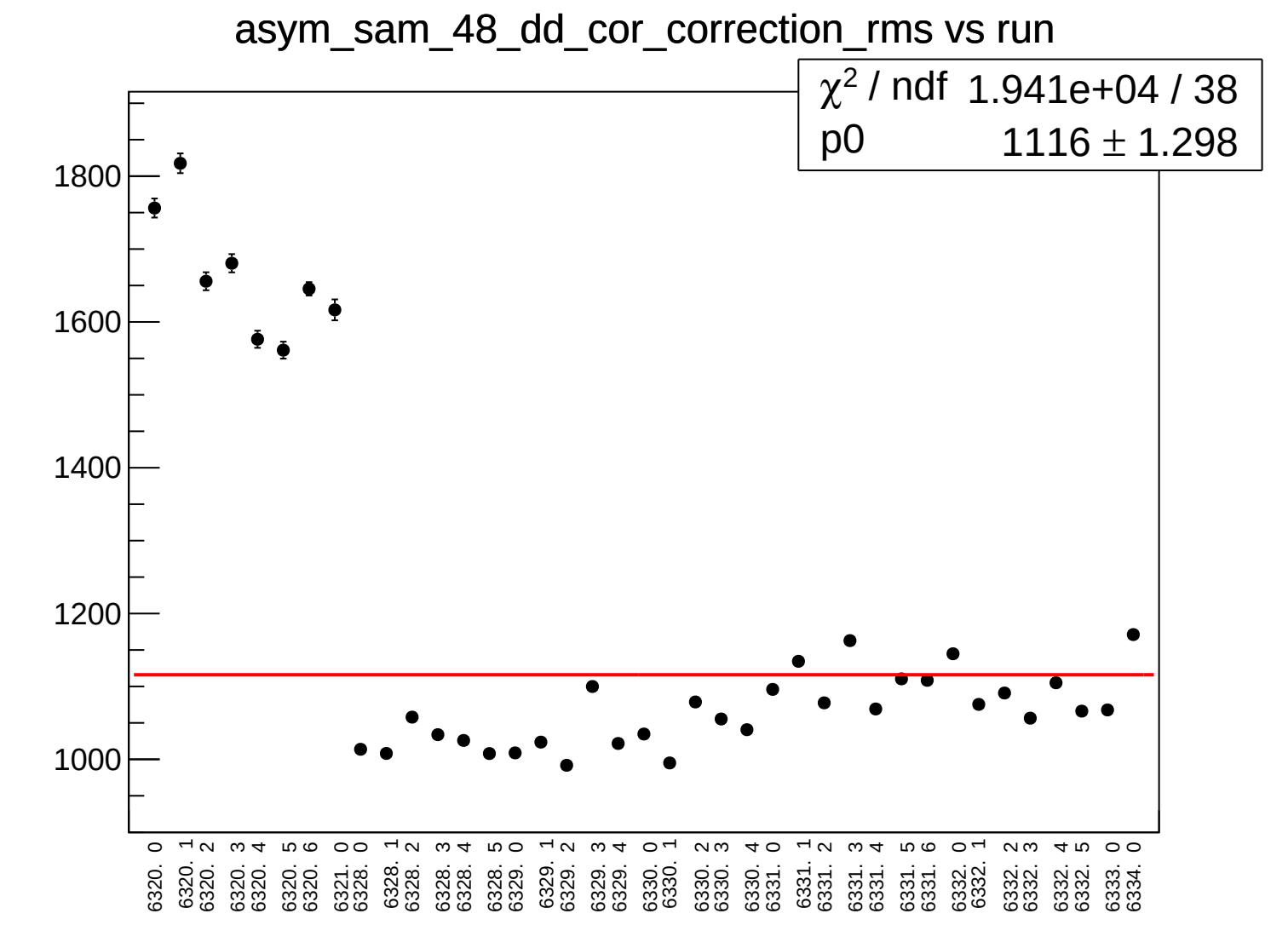

cor_asym_sam_48_dd_mean vs run
χ² / ndf 39.16 / 38
p0 400.8 ± 198.3
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

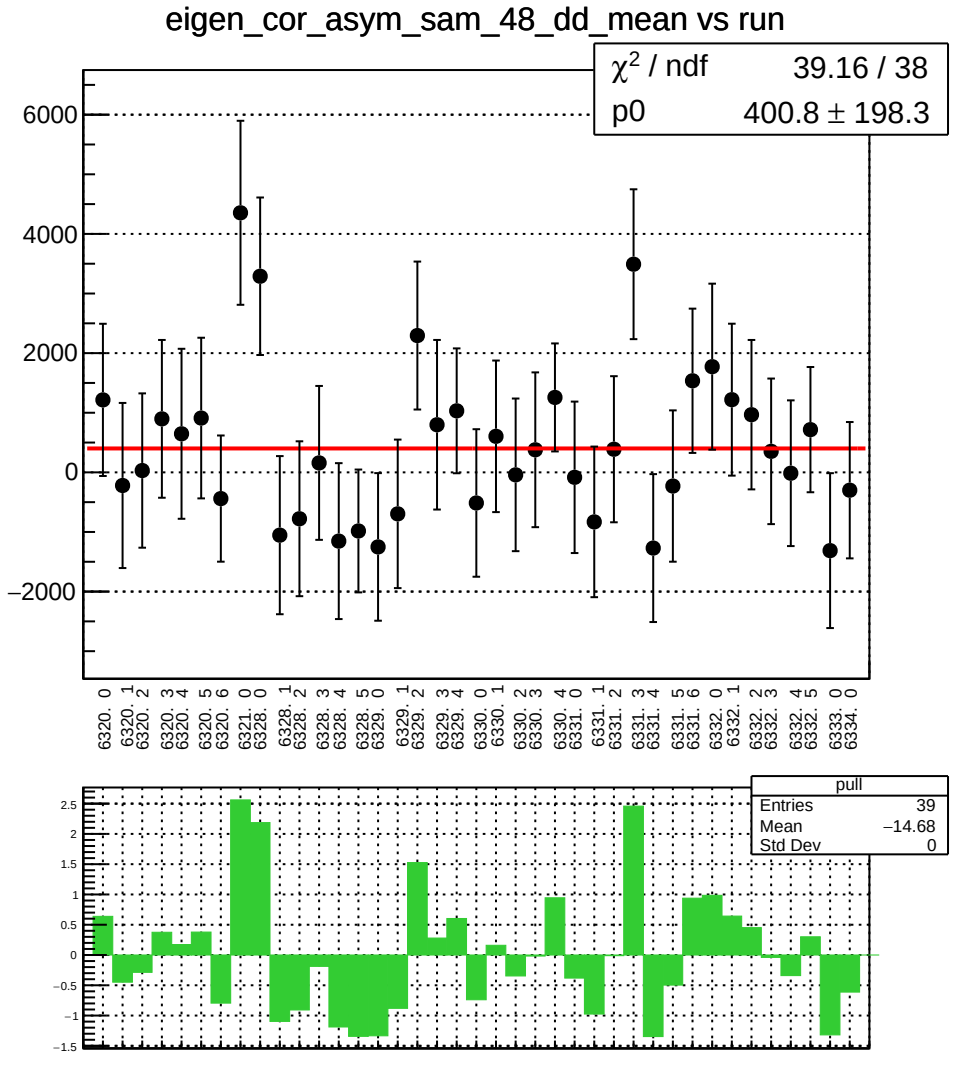

pull1D
Entries 39
Mean 0.0132
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

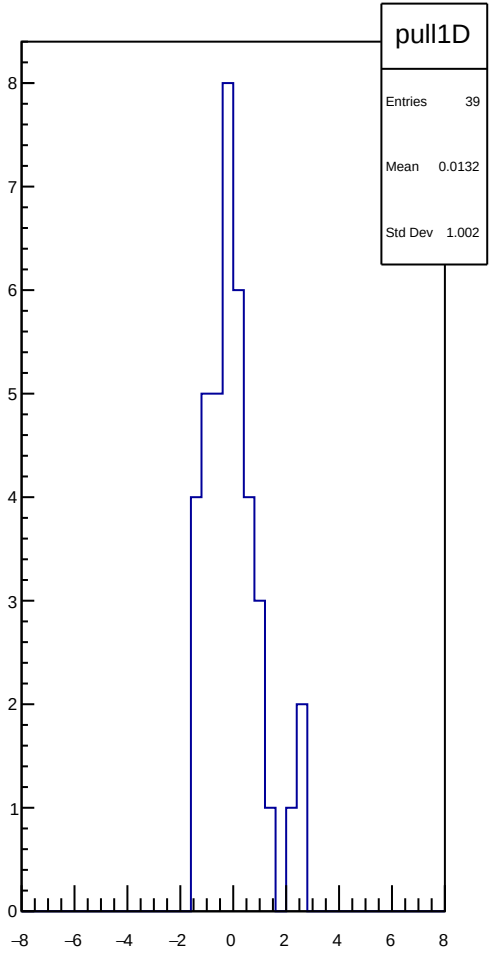

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1309 / 38
p0 122 ± 0.1402
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

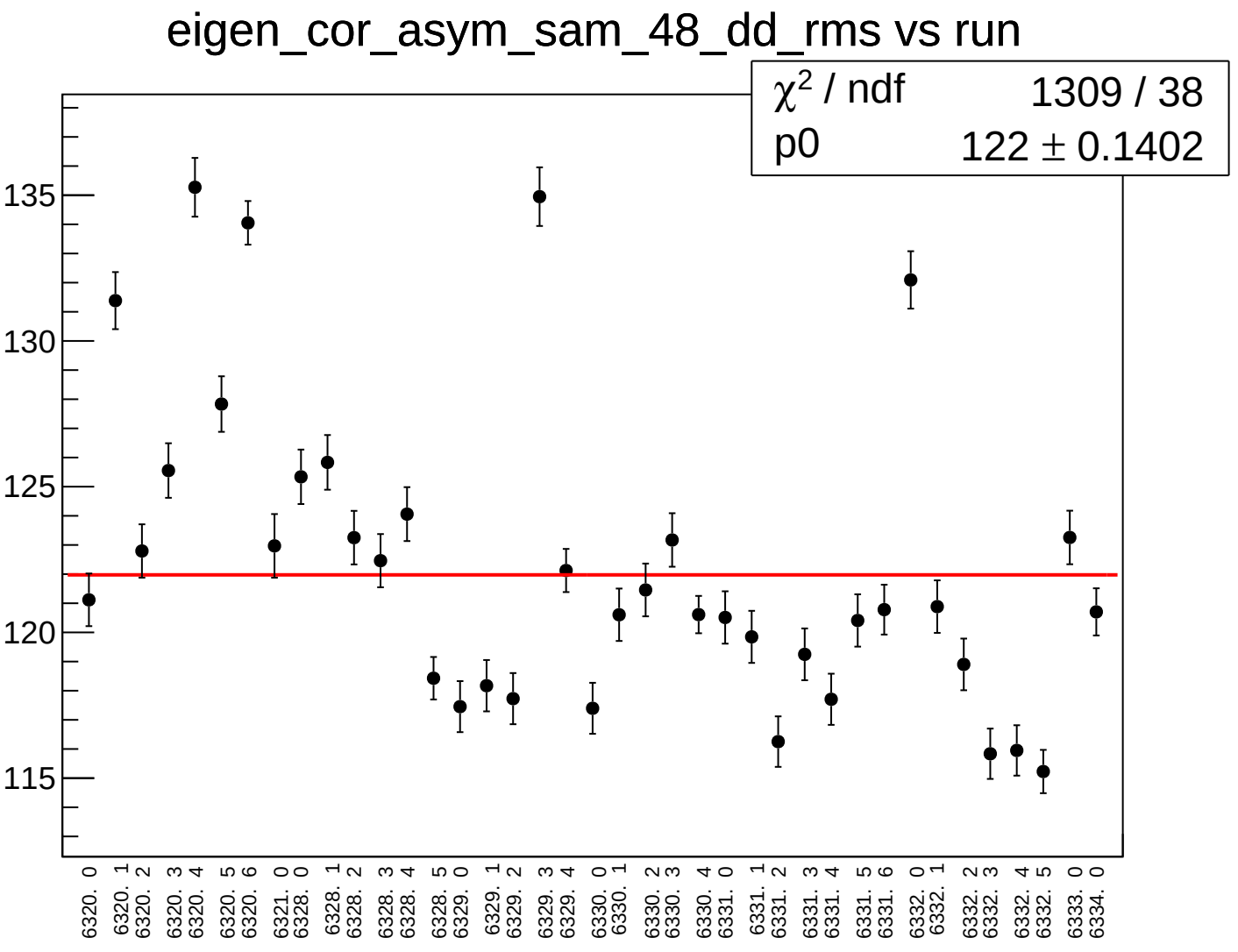

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 36.8 / 38
p0 −1315 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

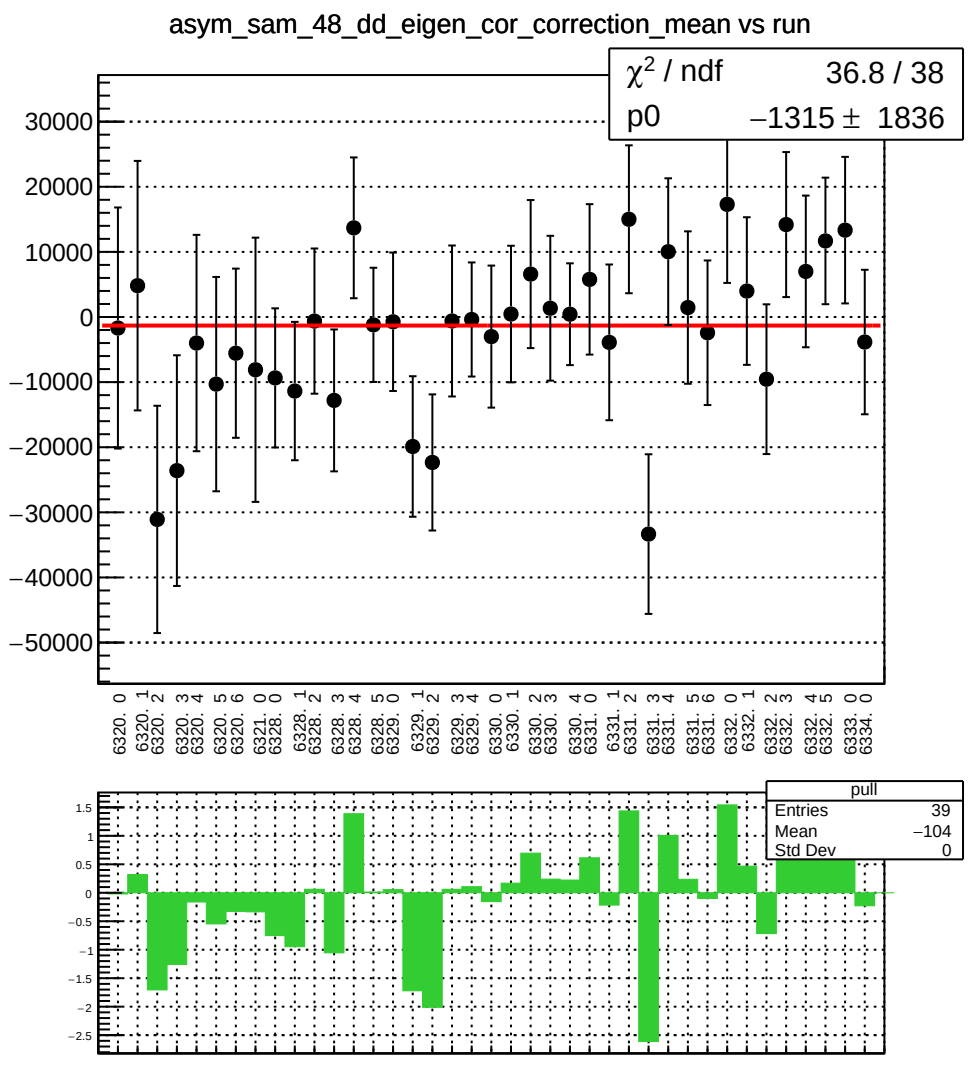

pull1D
Entries 39
Mean −0.0381
Std Dev 0.9707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

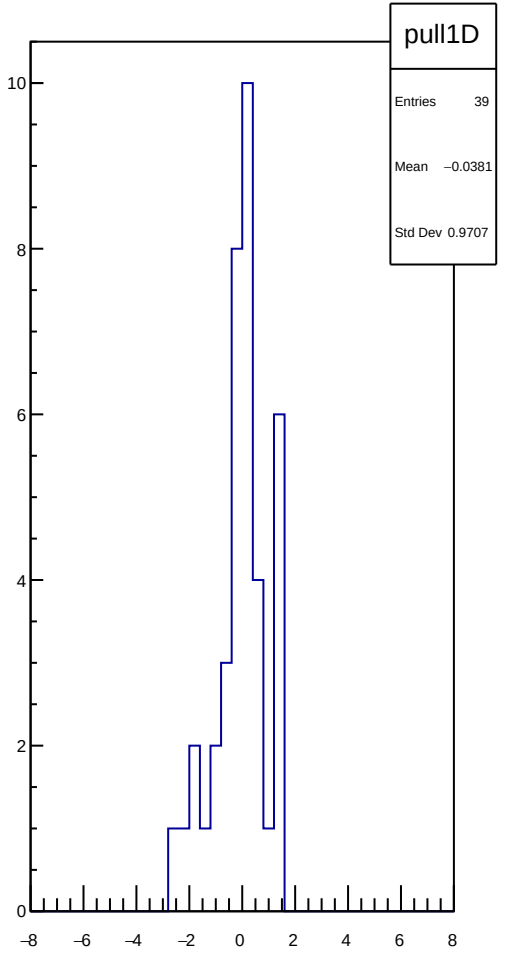

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 38
p0 1116 ± 1.298
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

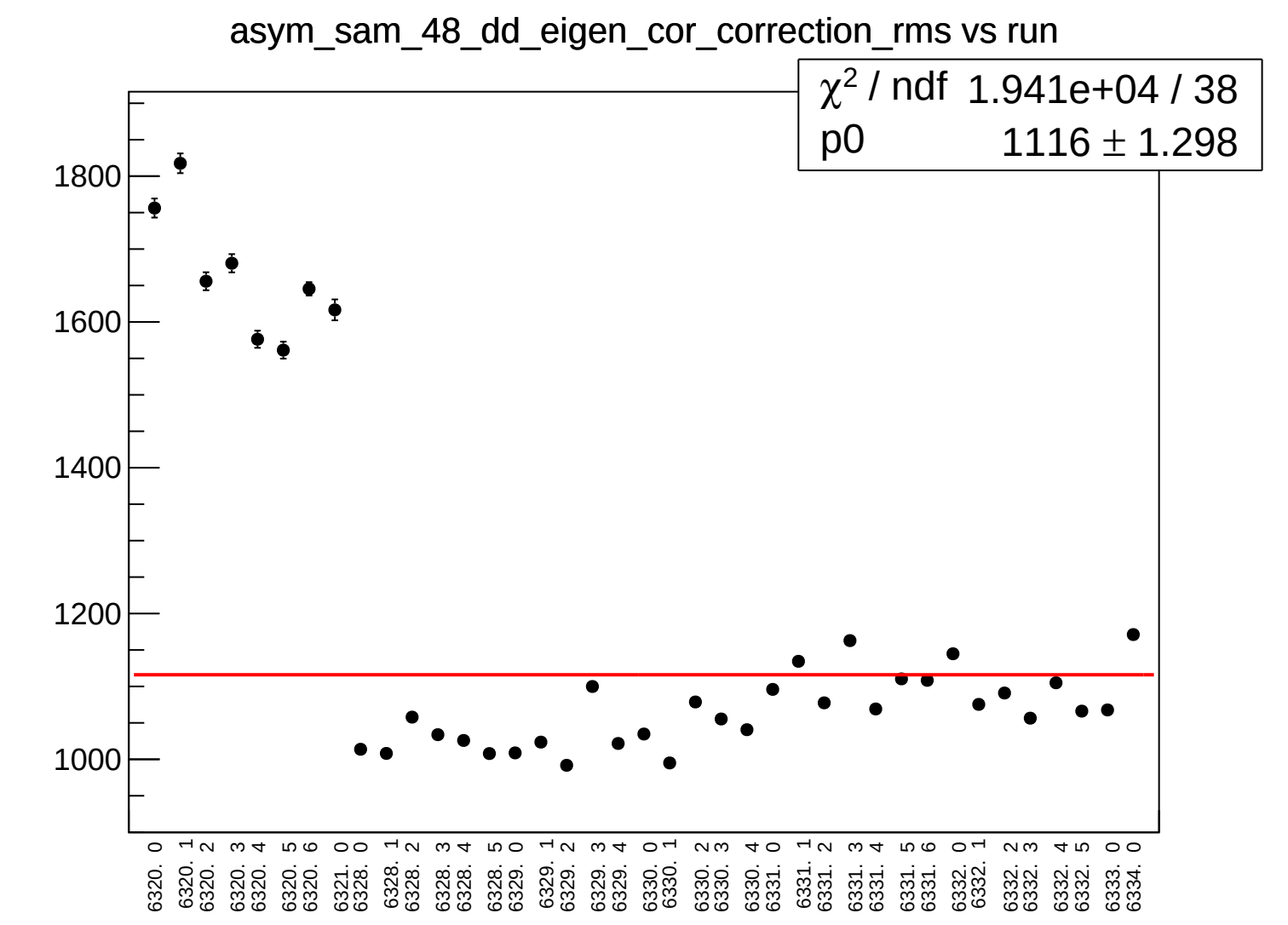

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 39.16 / 38
p0 400.8 ± 198.3
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

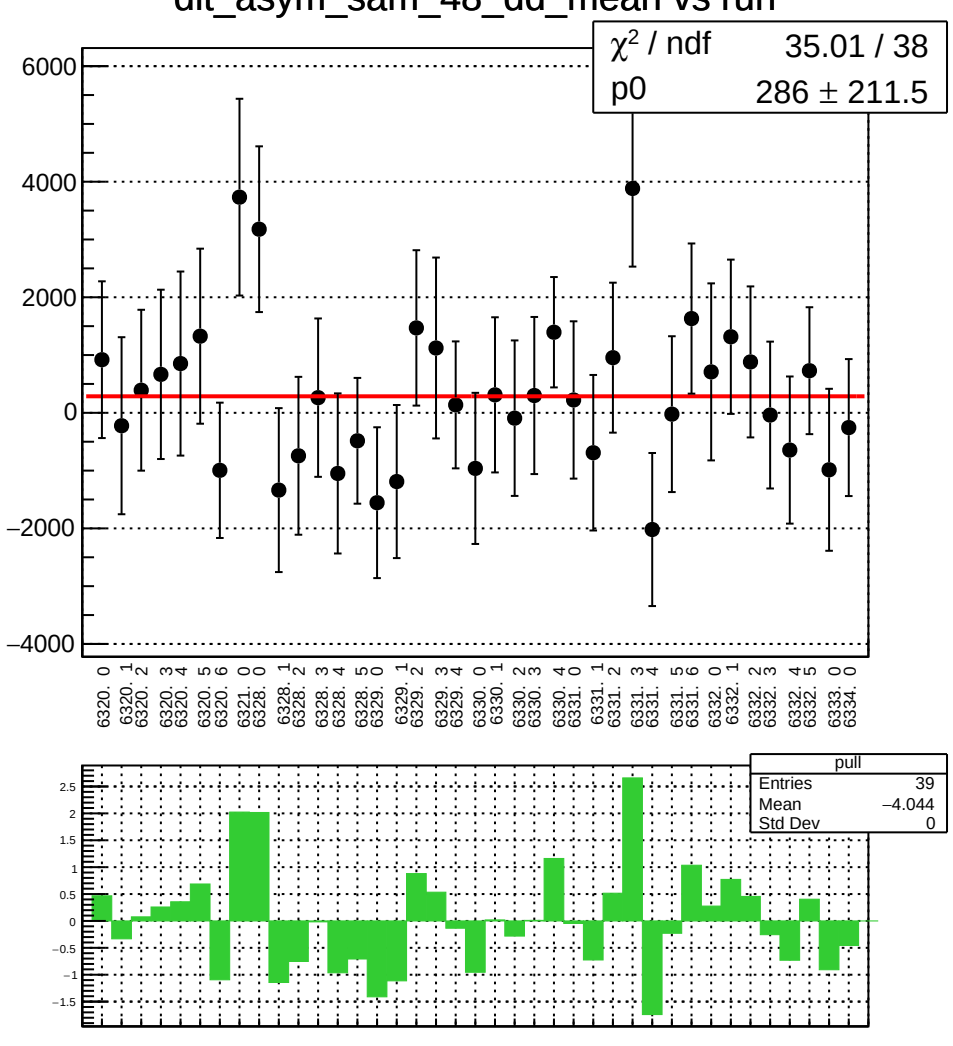

pull1D
Entries 39
Mean 0.0132
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

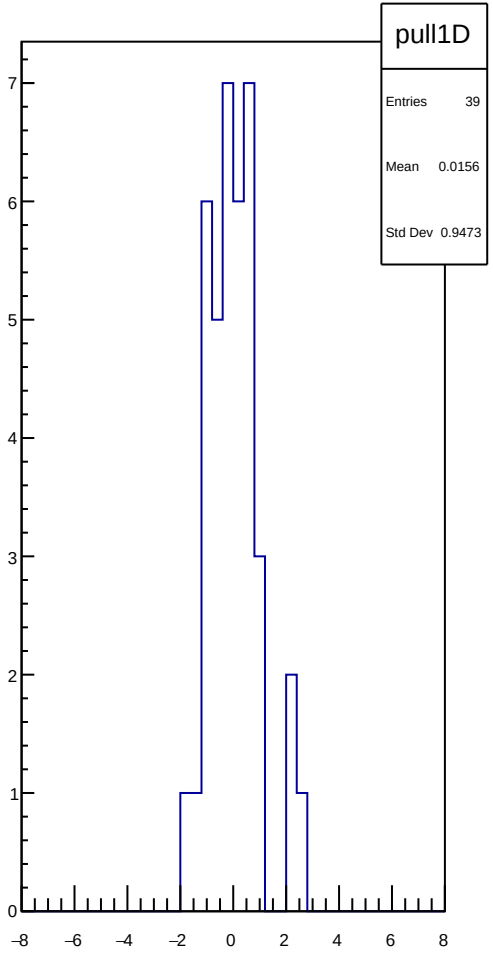

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 1309 / 38
p0 122 ± 0.1402
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

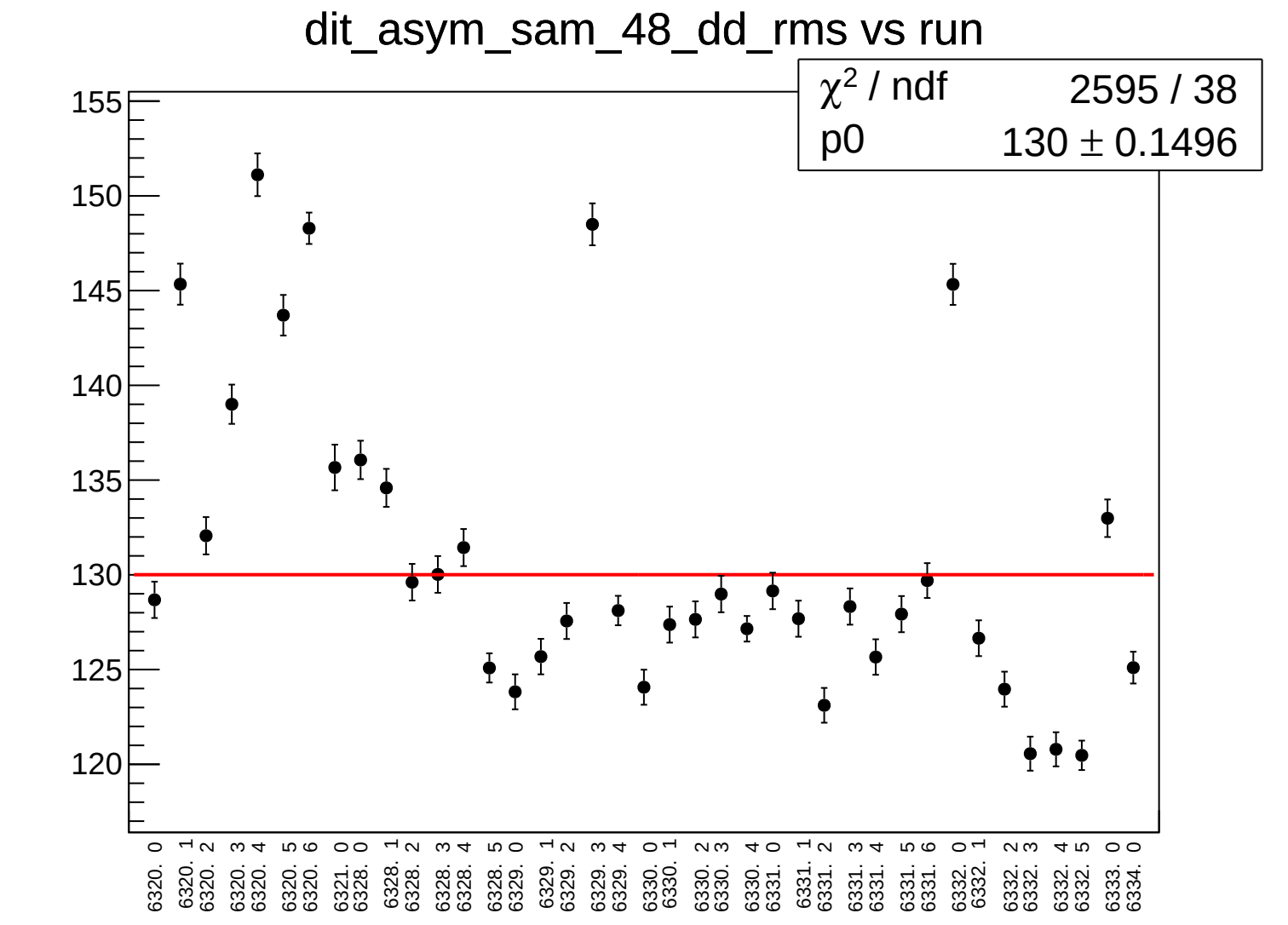

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.8 / 38
p0 −1315 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

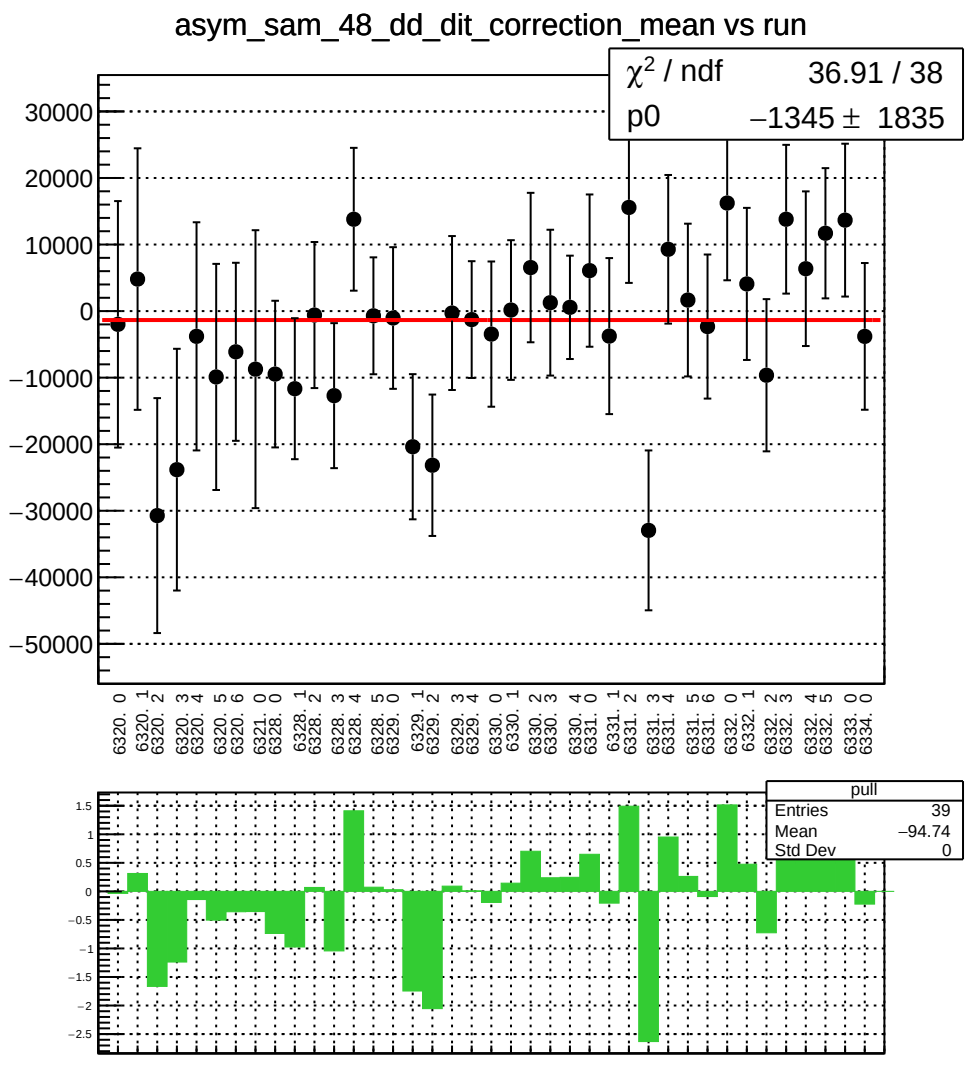

pull1D
Entries 39
Mean −0.0381
Std Dev 0.9707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

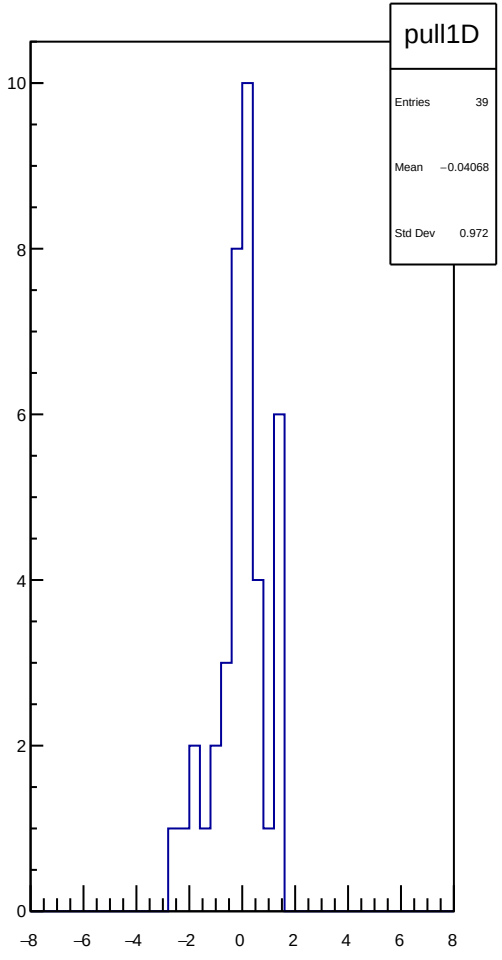

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 38
p0 1116 ± 1.298
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

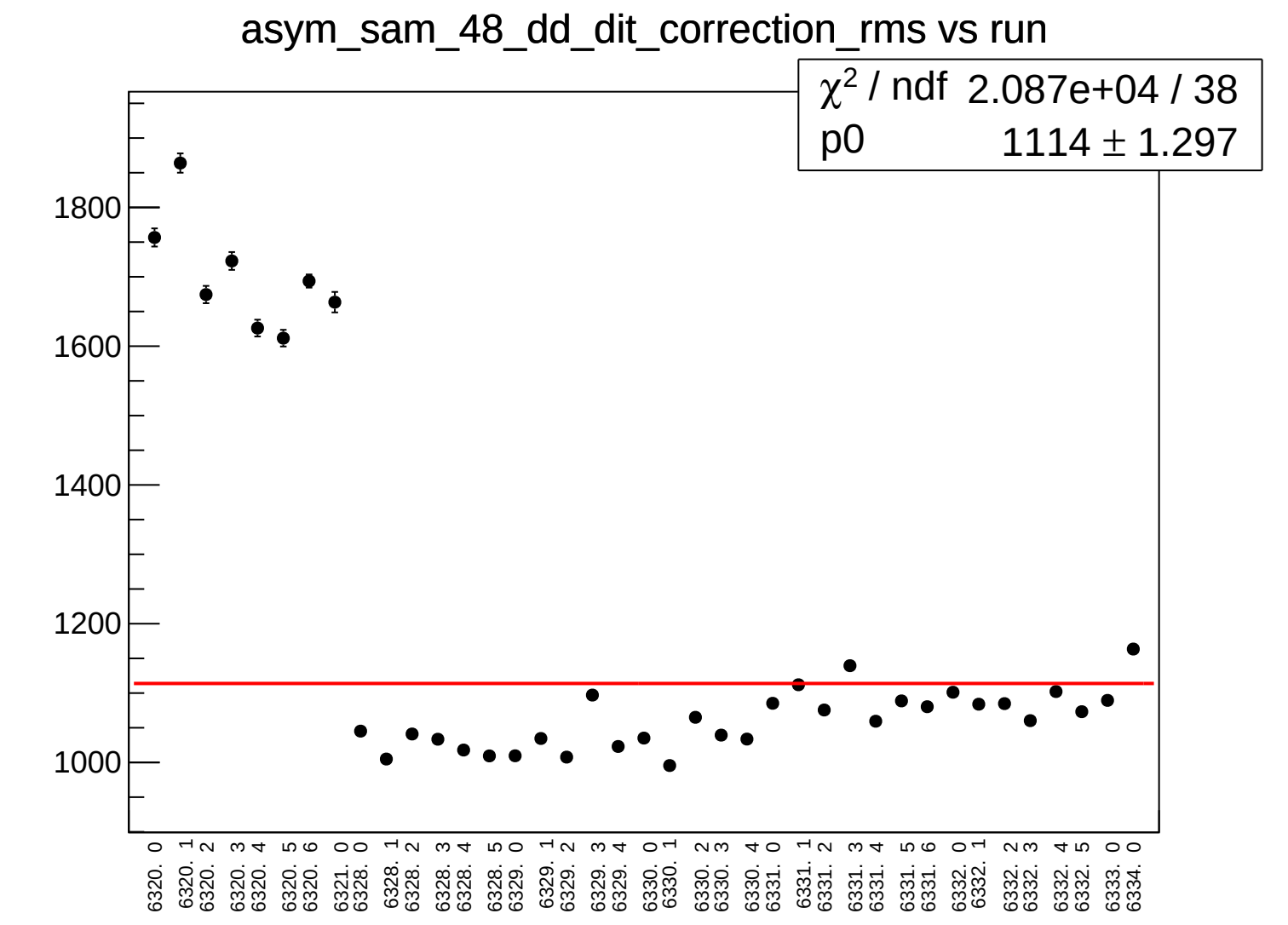

dit_asym_sam_48_dd_mean vs run
χ² / ndf 35.01 / 38
p0 286 ± 211.5
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.044
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

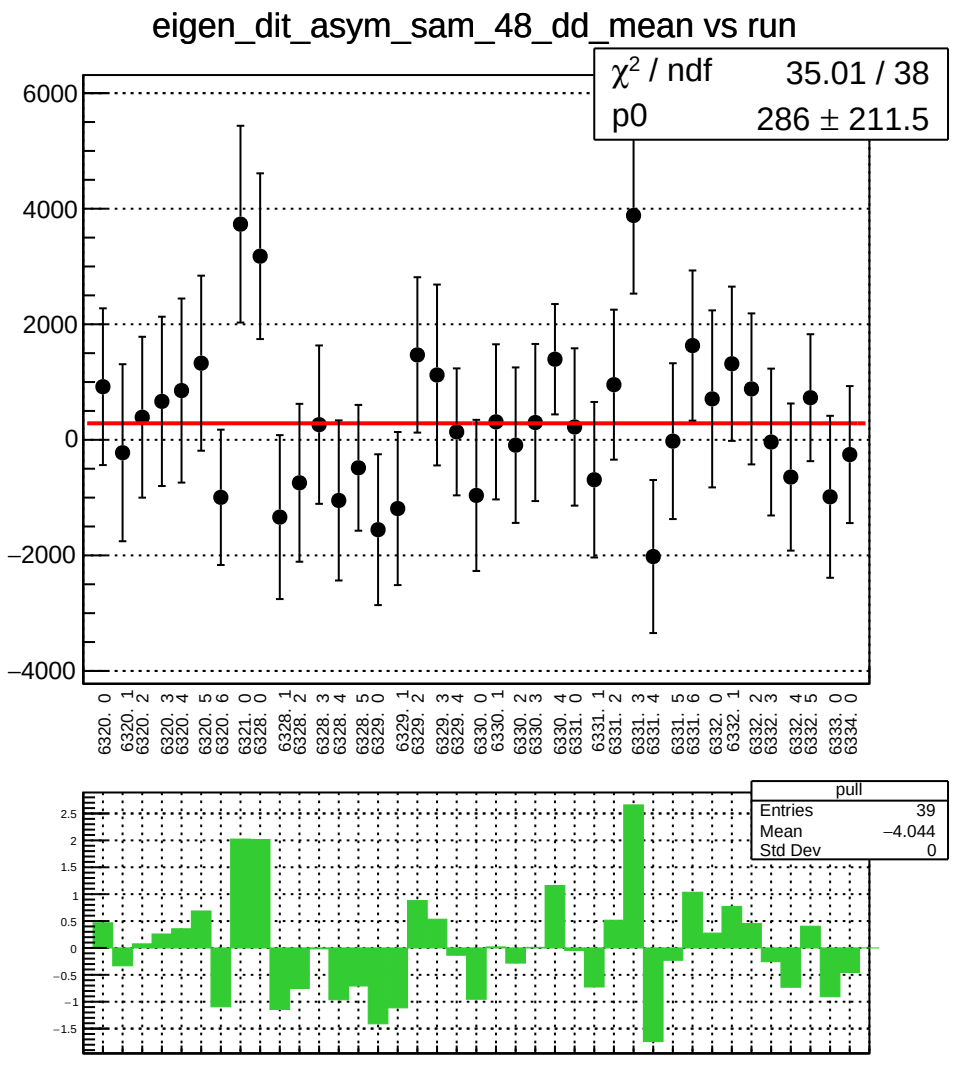

pull1D
Entries 39
Mean 0.0156
Std Dev 0.9473
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

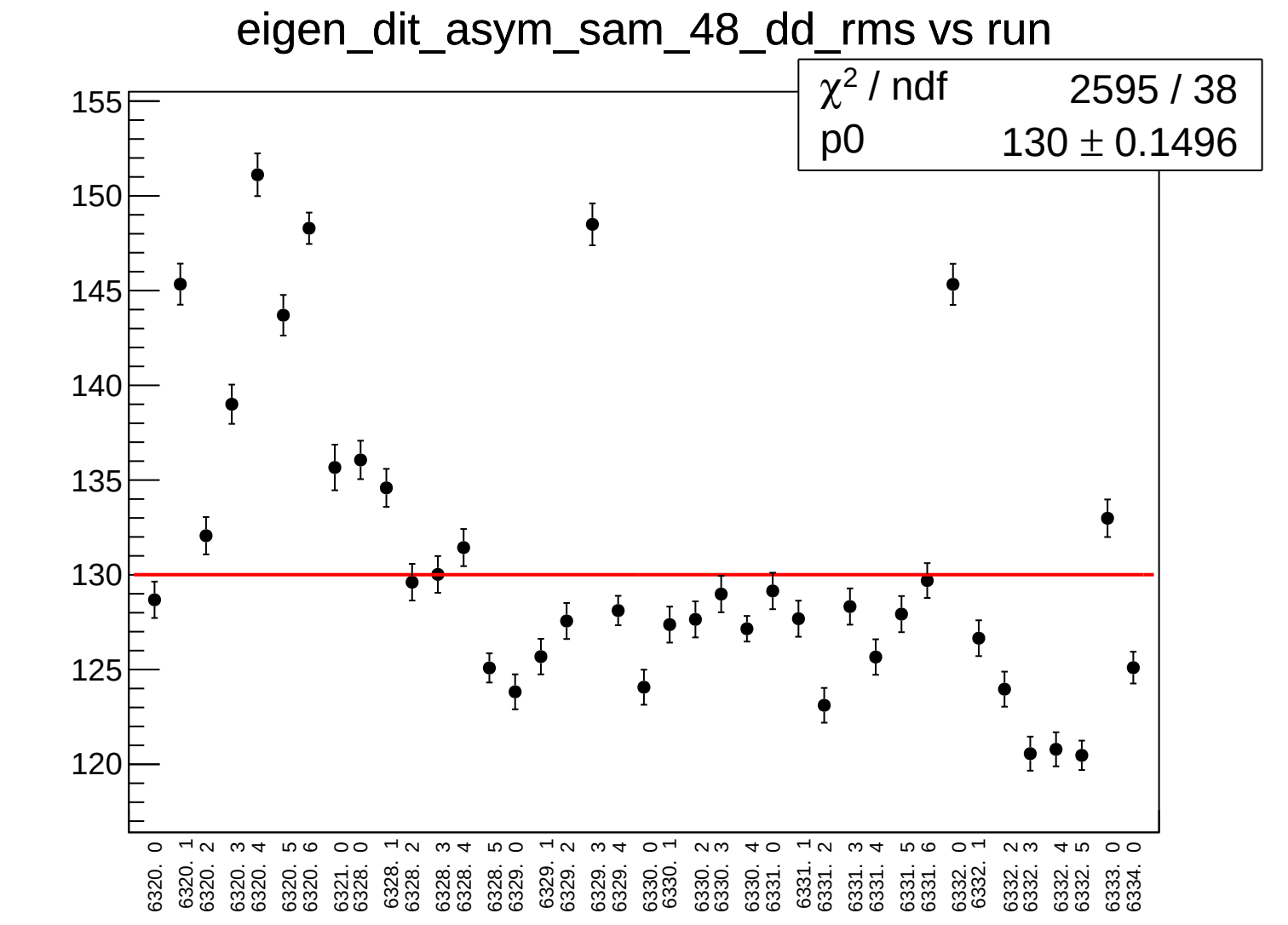

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2595 / 38
p0 130 ± 0.1496
155
150
145
140
135
130
125
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

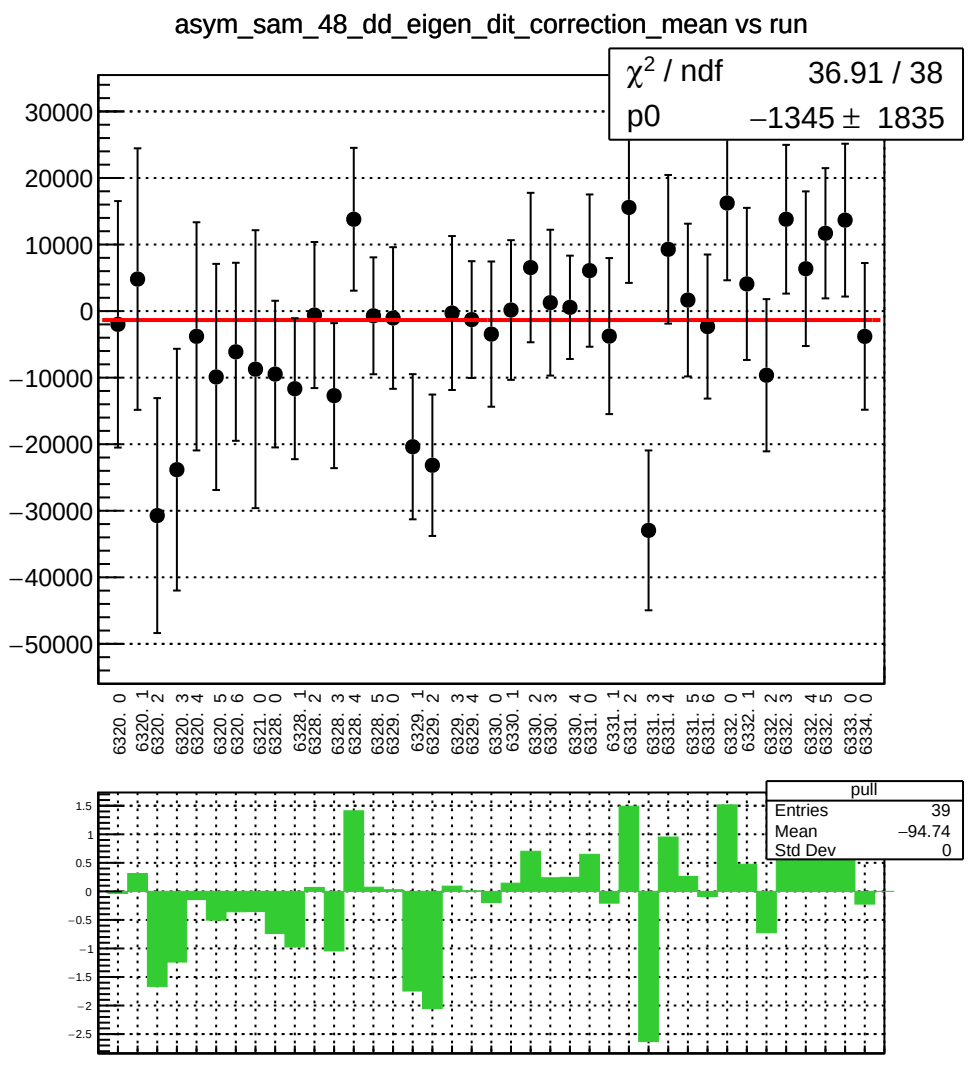

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 36.91 / 38
p0 −1345 ± 1835
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −94.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

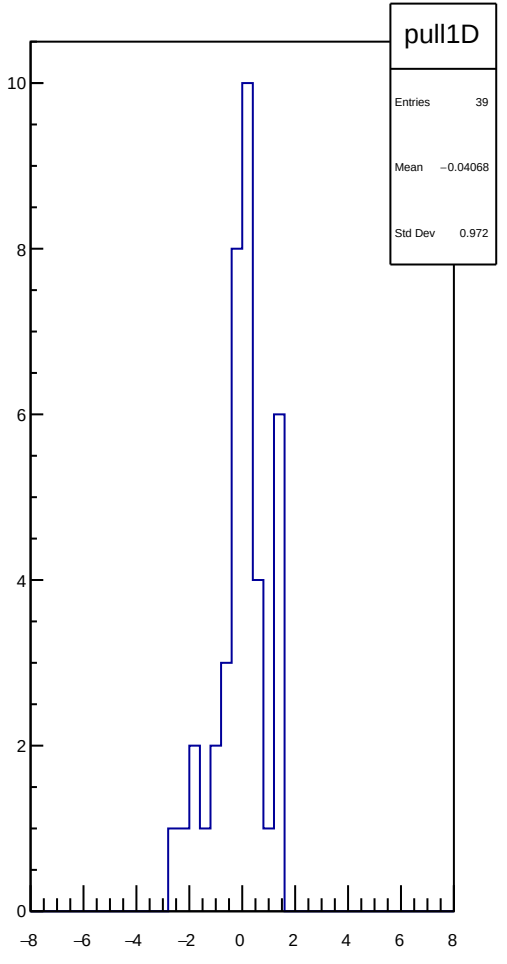

pull1D
Entries 39
Mean −0.04068
Std Dev 0.972
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

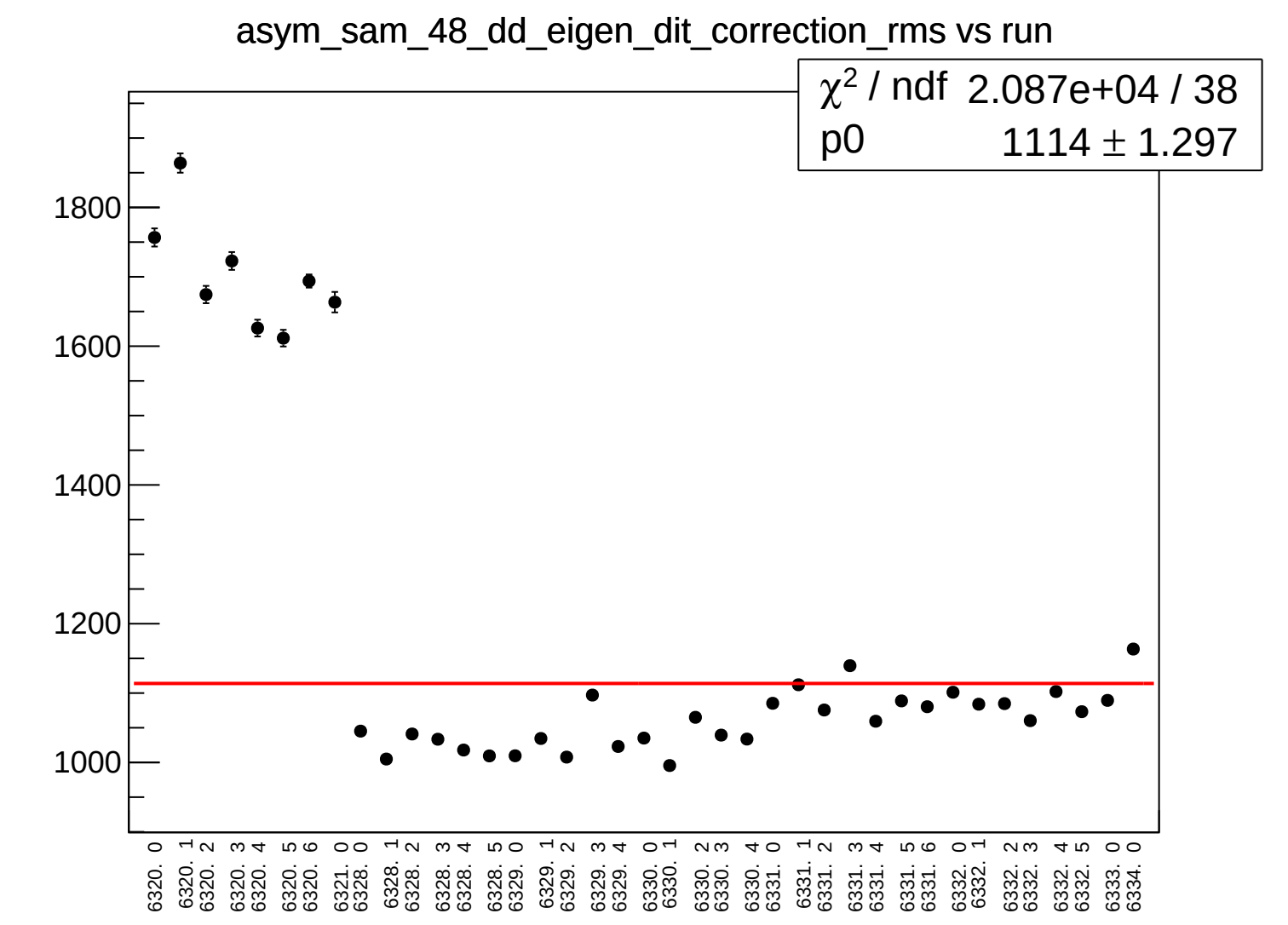

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2.087e+04 / 38
p0 1114 ± 1.297
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

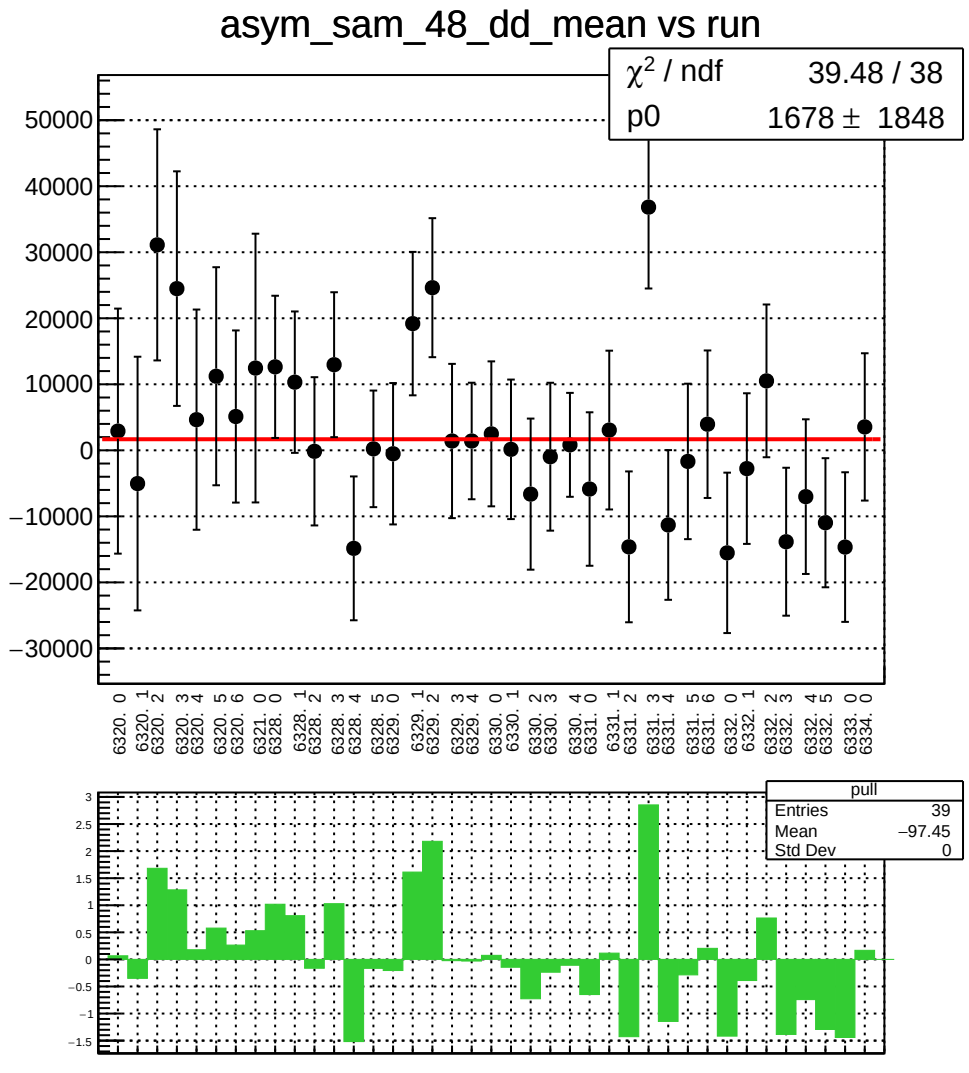

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 35.01 / 38
p0 286 ± 211.5
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.044
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0156
Std Dev 0.9473
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

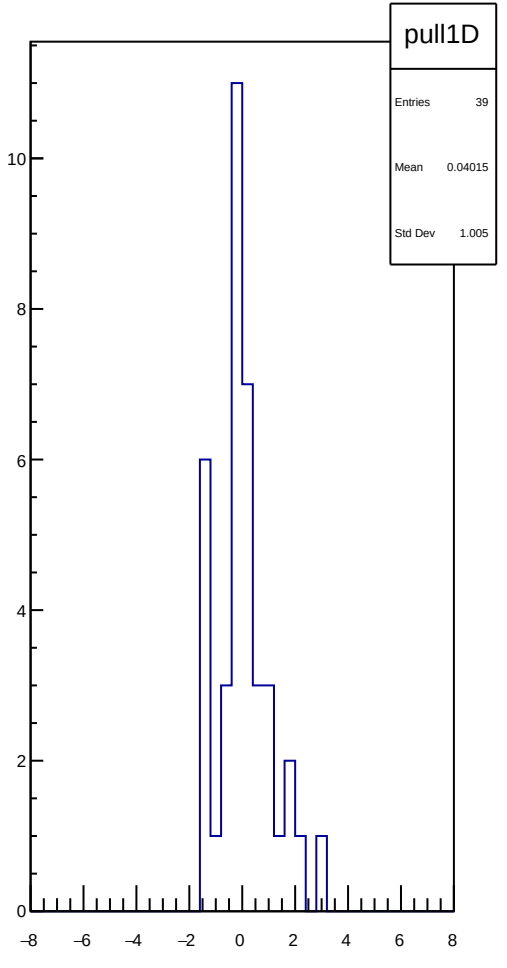

eigen_dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 2595 / 38
p0 130 ± 0.1496
155
150
145
140
135
130
125
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

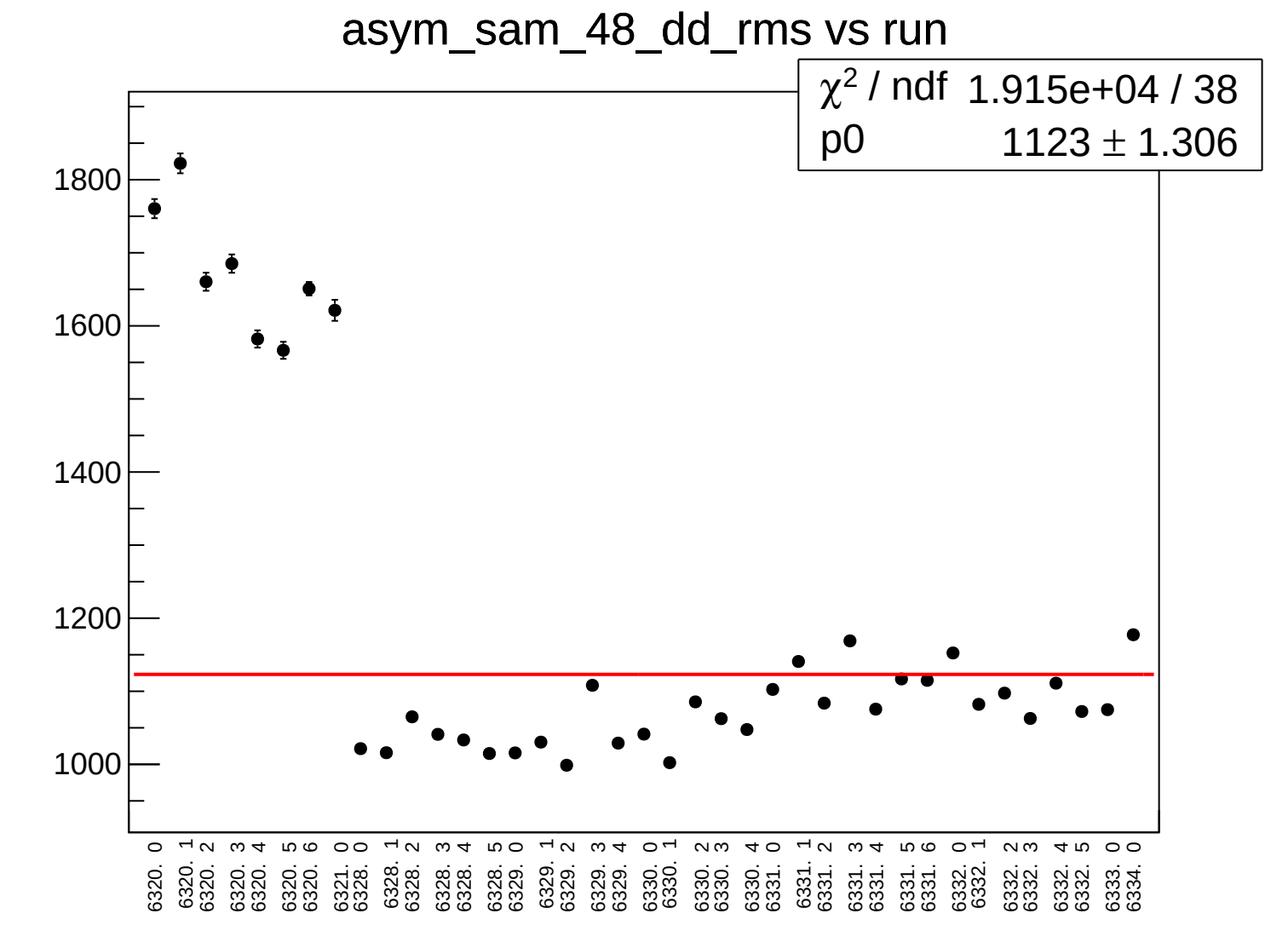

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.91 / 38
p0 −1345 ± 1835
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −94.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

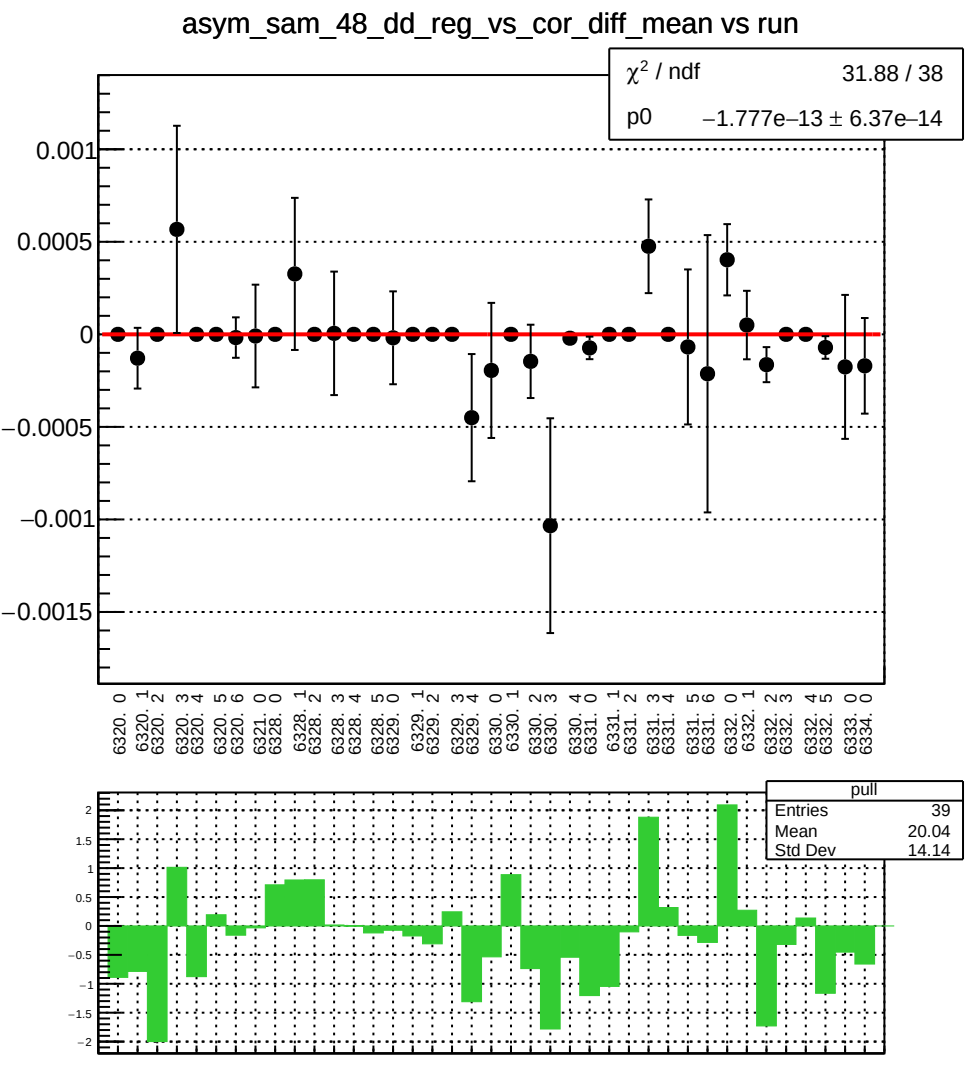

pull1D
Entries 39
Mean −0.04068
Std Dev 0.972
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

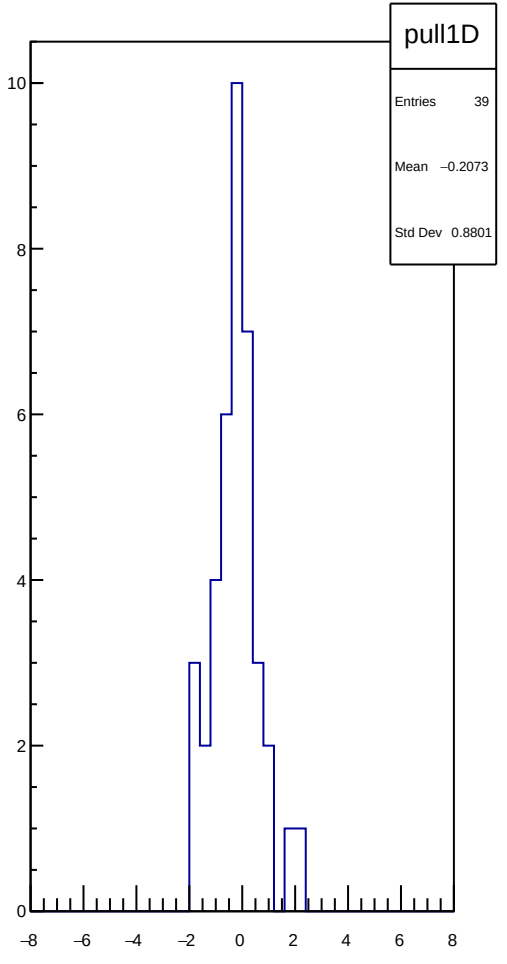

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.087e+04 / 38
p0 1114 ± 1.297
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

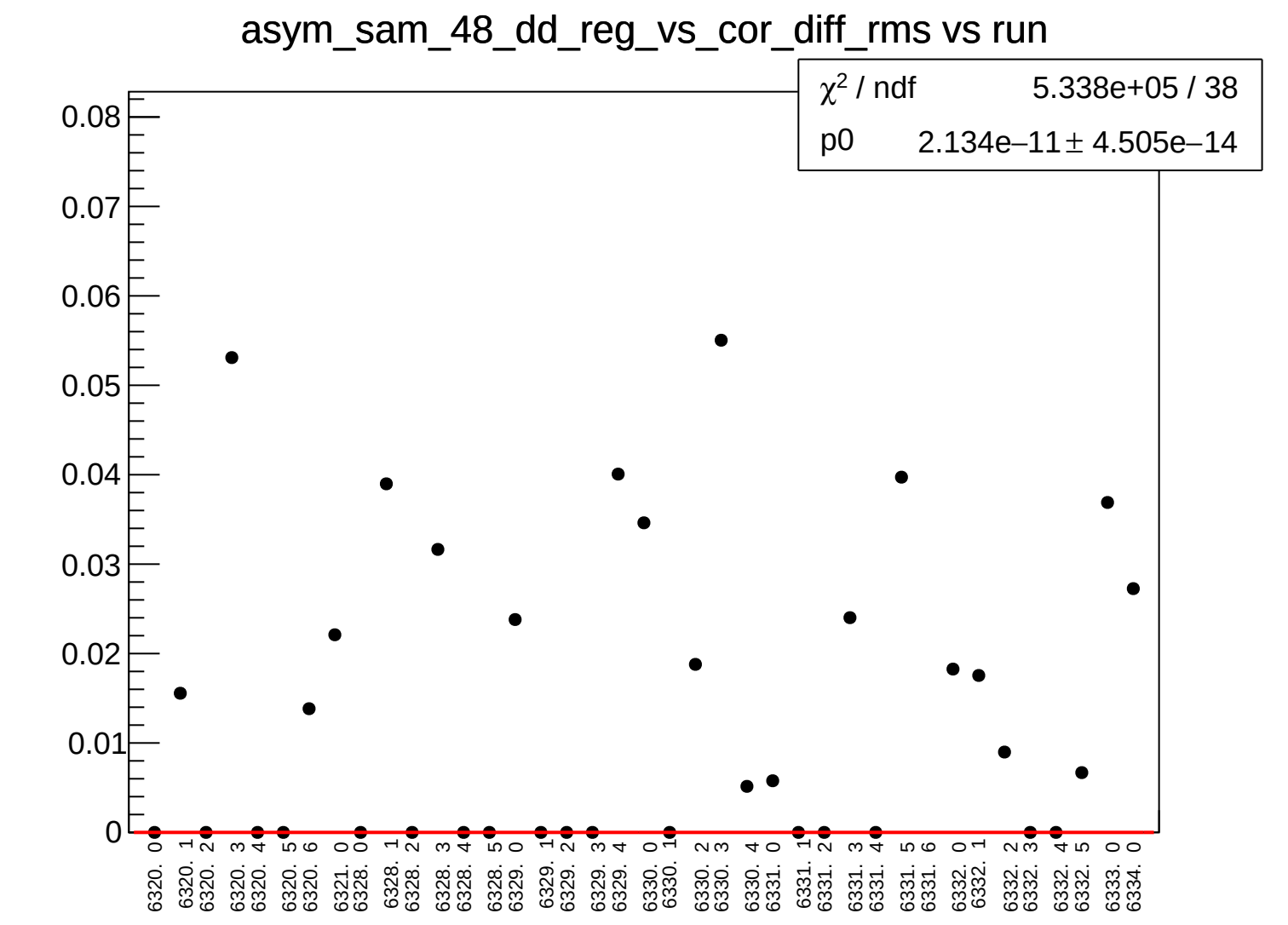

asym_sam_48_dd_mean vs run
χ² / ndf 39.48 / 38
p0 1678 ± 1848
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −97.45
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

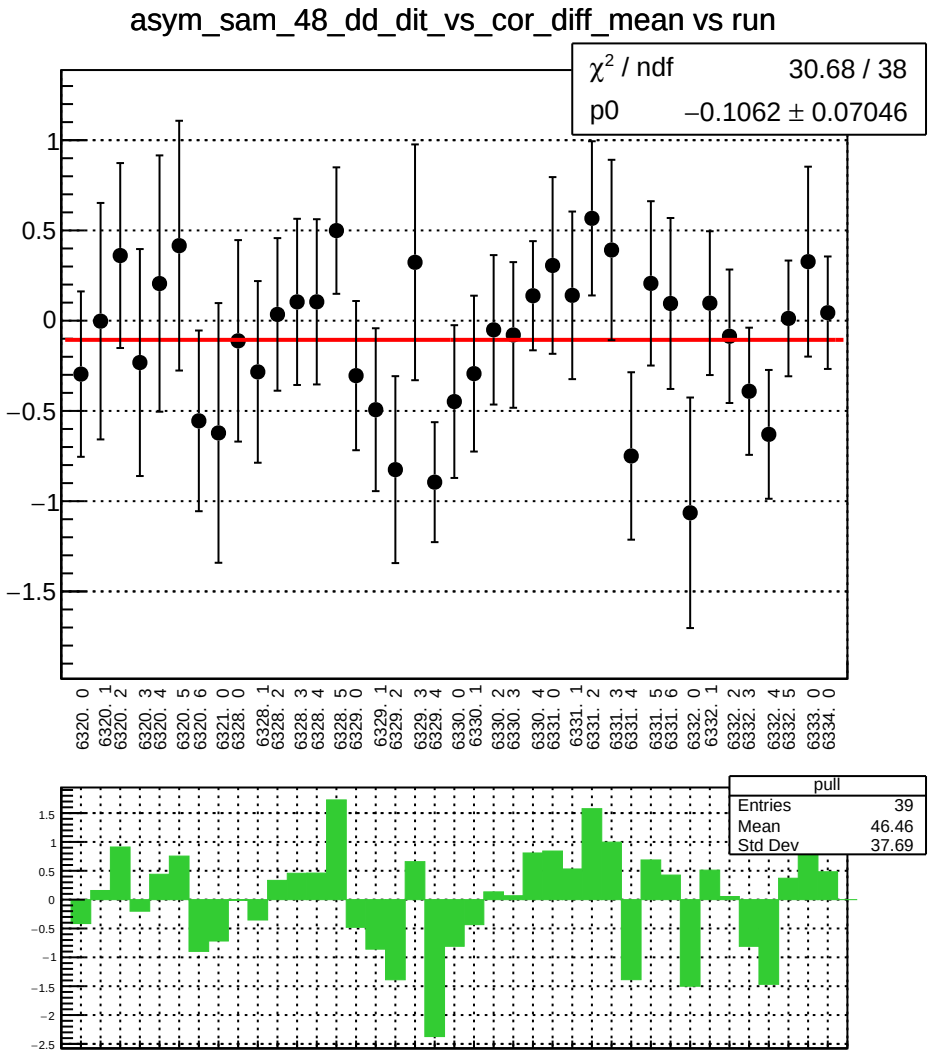

pull1D
Entries 39
Mean 0.04015
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

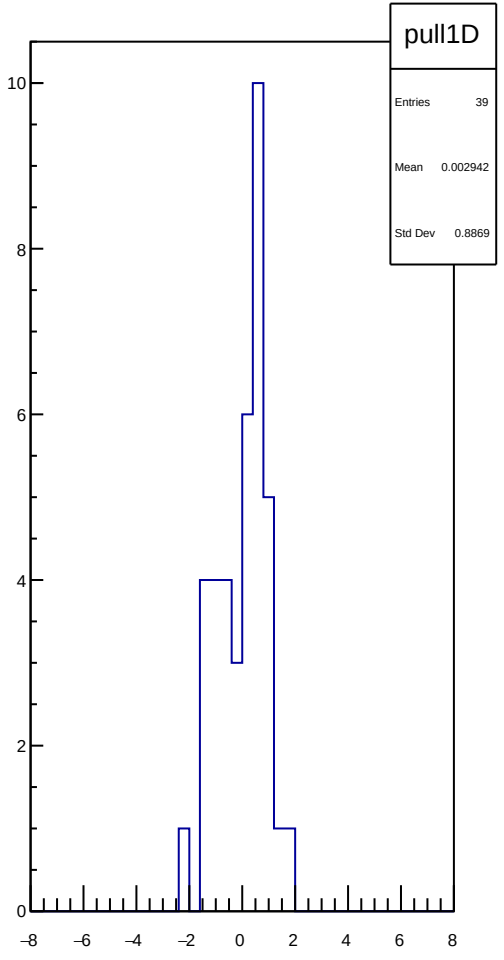

asym_sam_48_dd_rms vs run
χ² / ndf 1.915e+04 / 38
p0 1123 ± 1.306
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

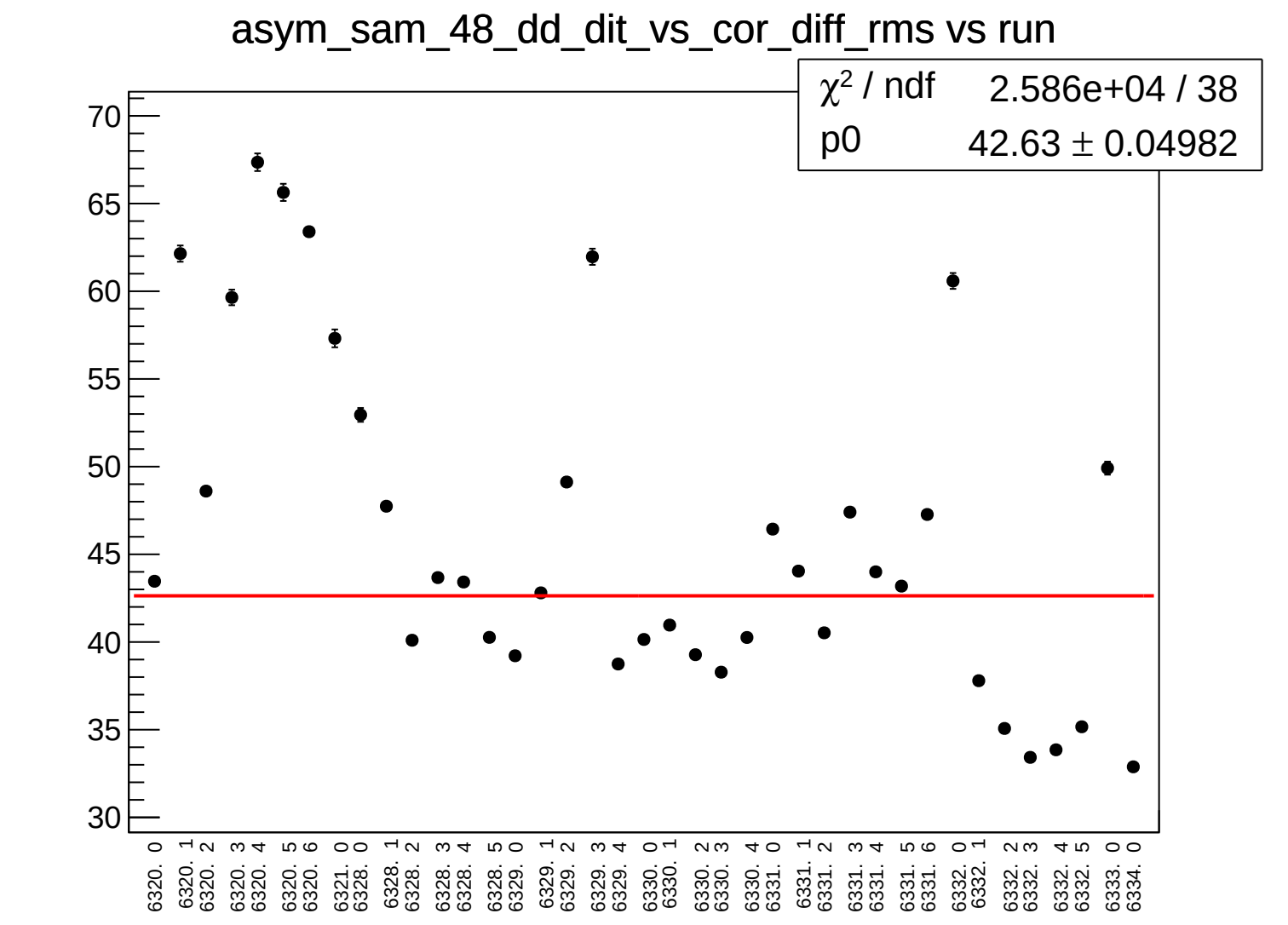

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.88 / 38
p0 −1.777e−13 ± 6.37e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.04
Std Dev 14.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

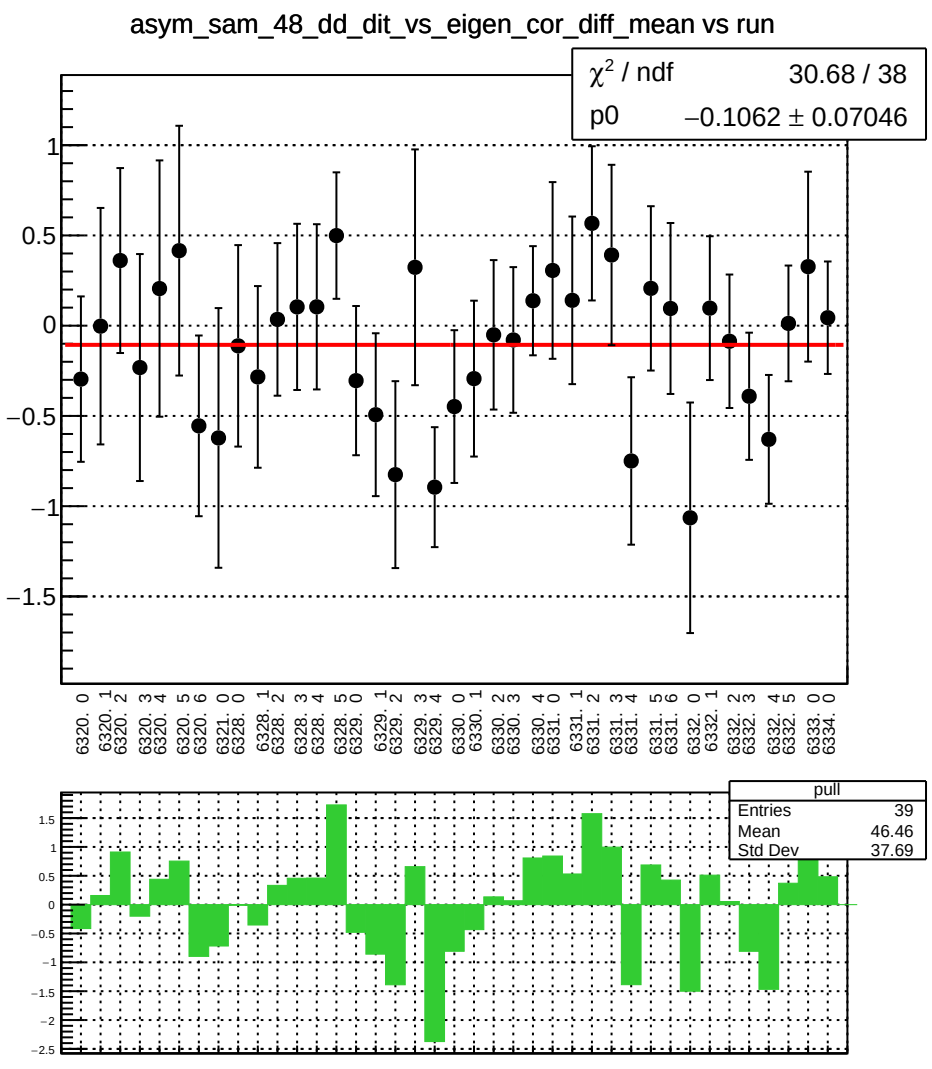

pull1D
Entries 39
Mean −0.2073
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

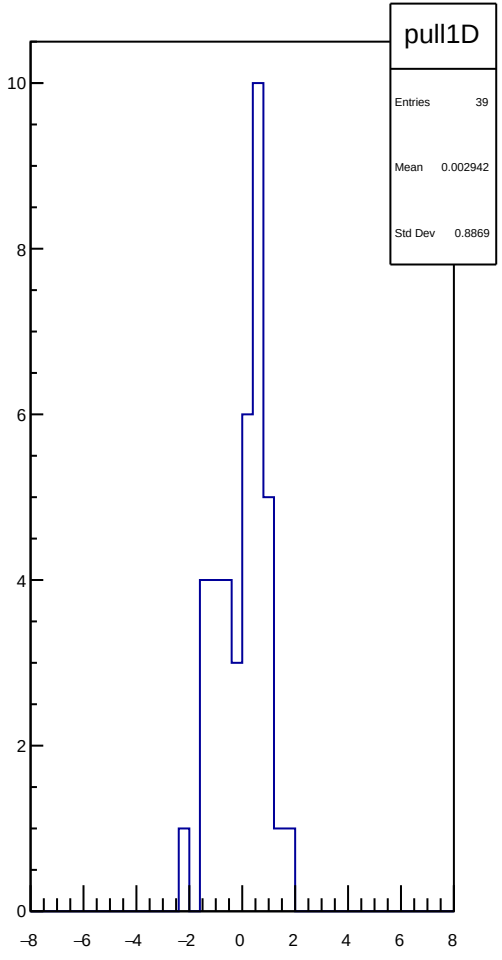

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.338e+05 / 38
p0 2.134e−11 ± 4.505e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

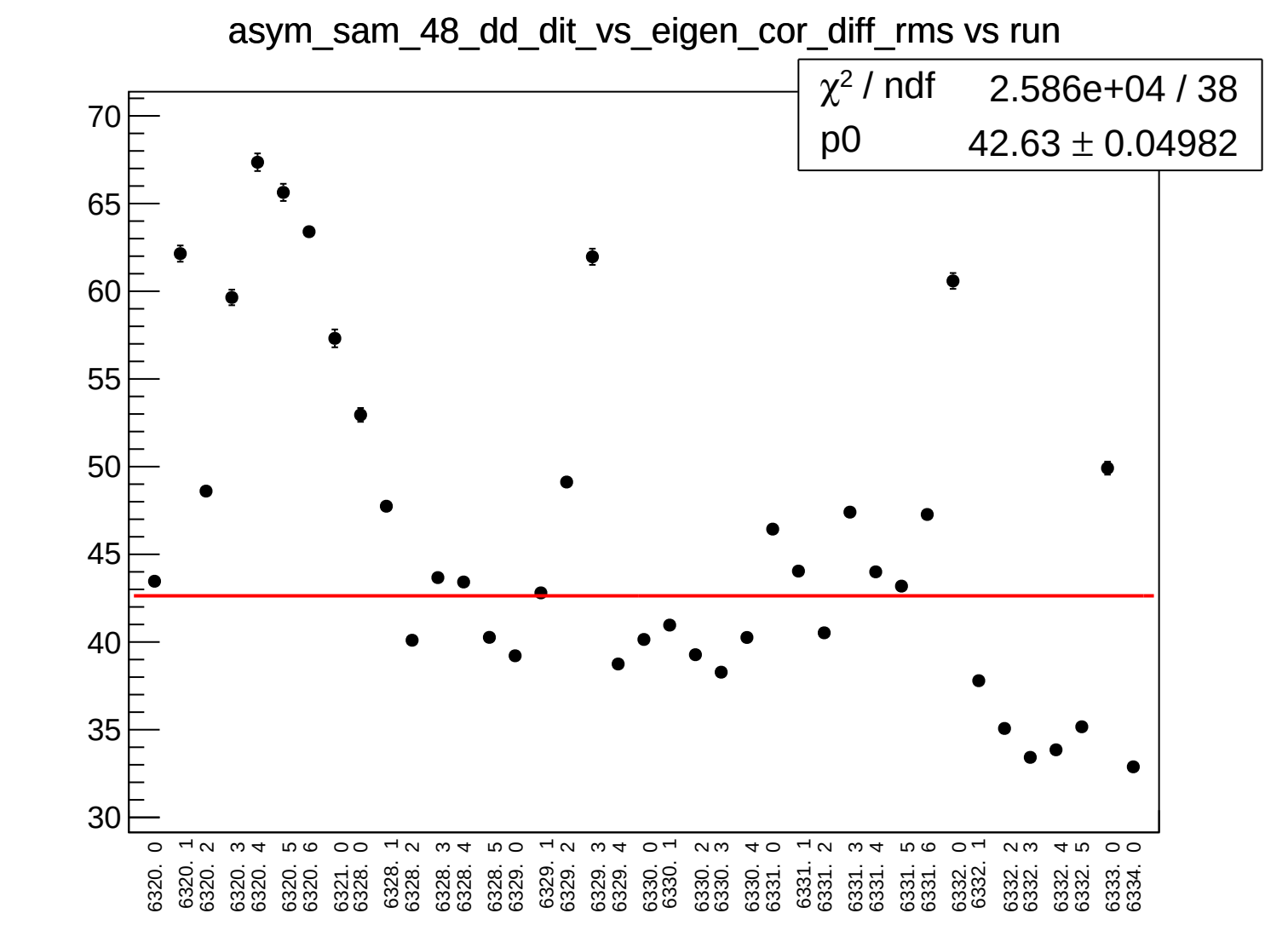

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.68 / 38
p0 −0.1062 ± 0.07046
pull
Entries 39
Mean 46.46
Std Dev 37.69

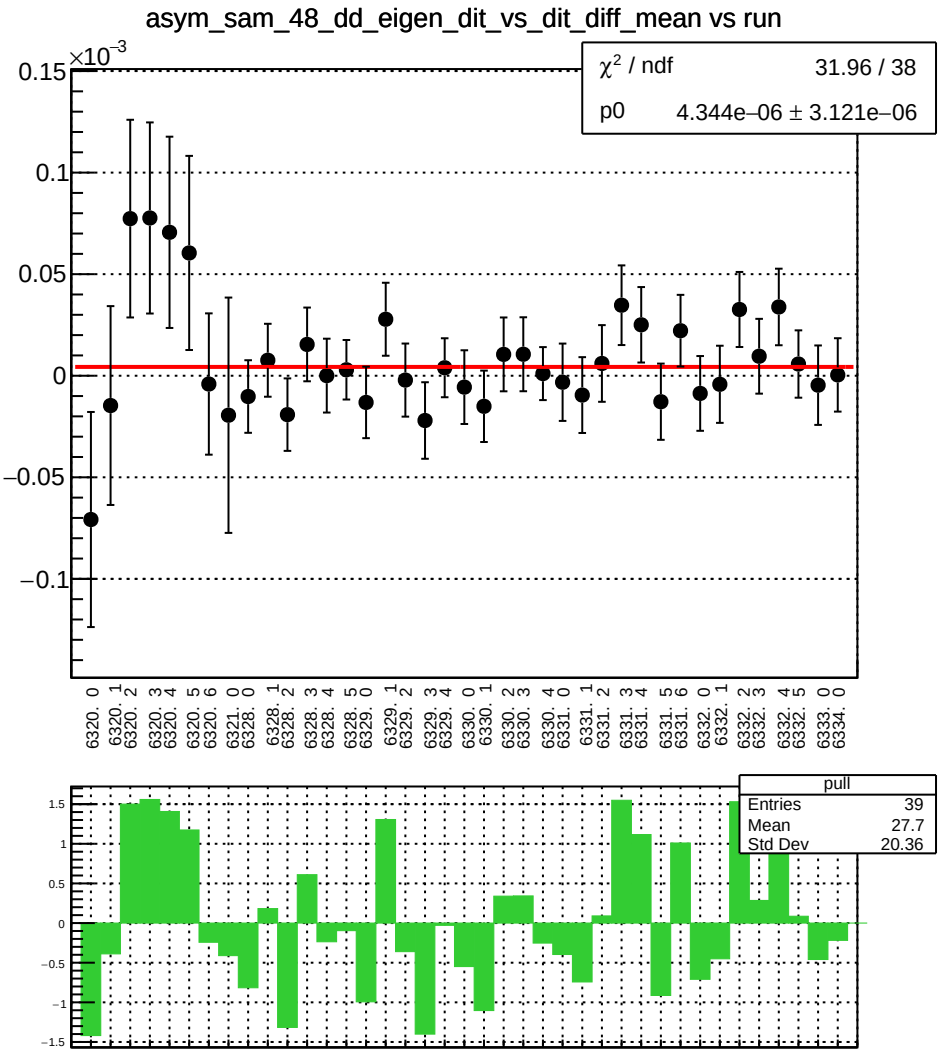

pull1D
Entries 39
Mean 0.002942
Std Dev 0.8869

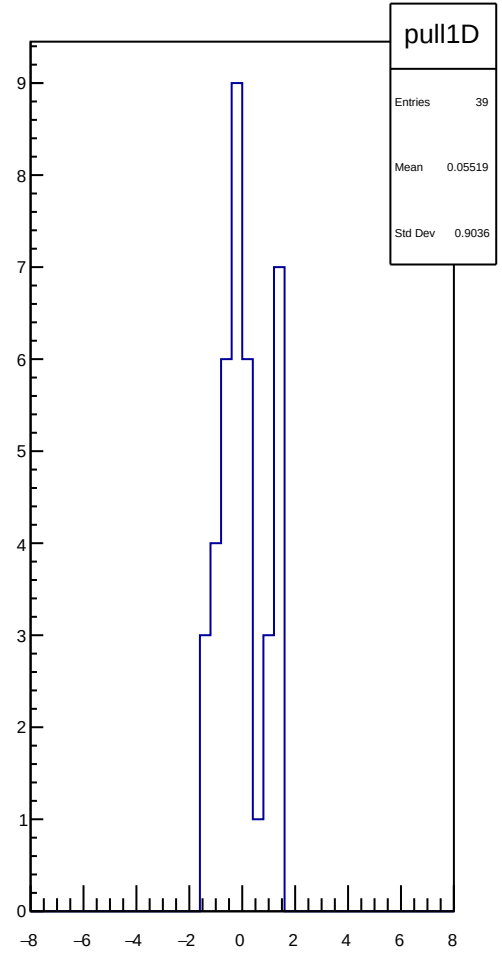

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 38
p0 42.63 ± 0.04982
70
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

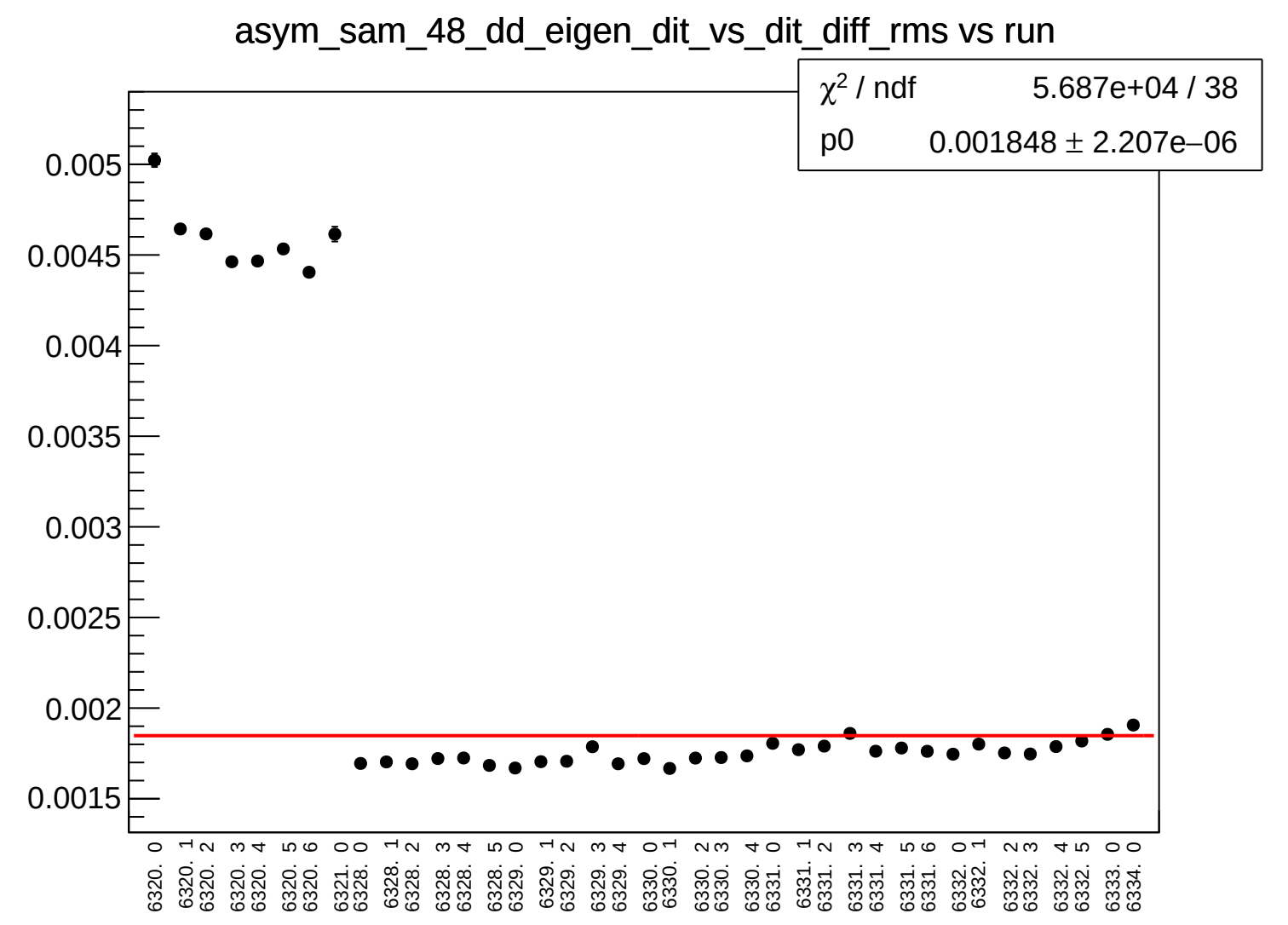

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.68 / 38
p0 −0.1062 ± 0.07046
pull
Entries 39
Mean 46.46
Std Dev 37.69

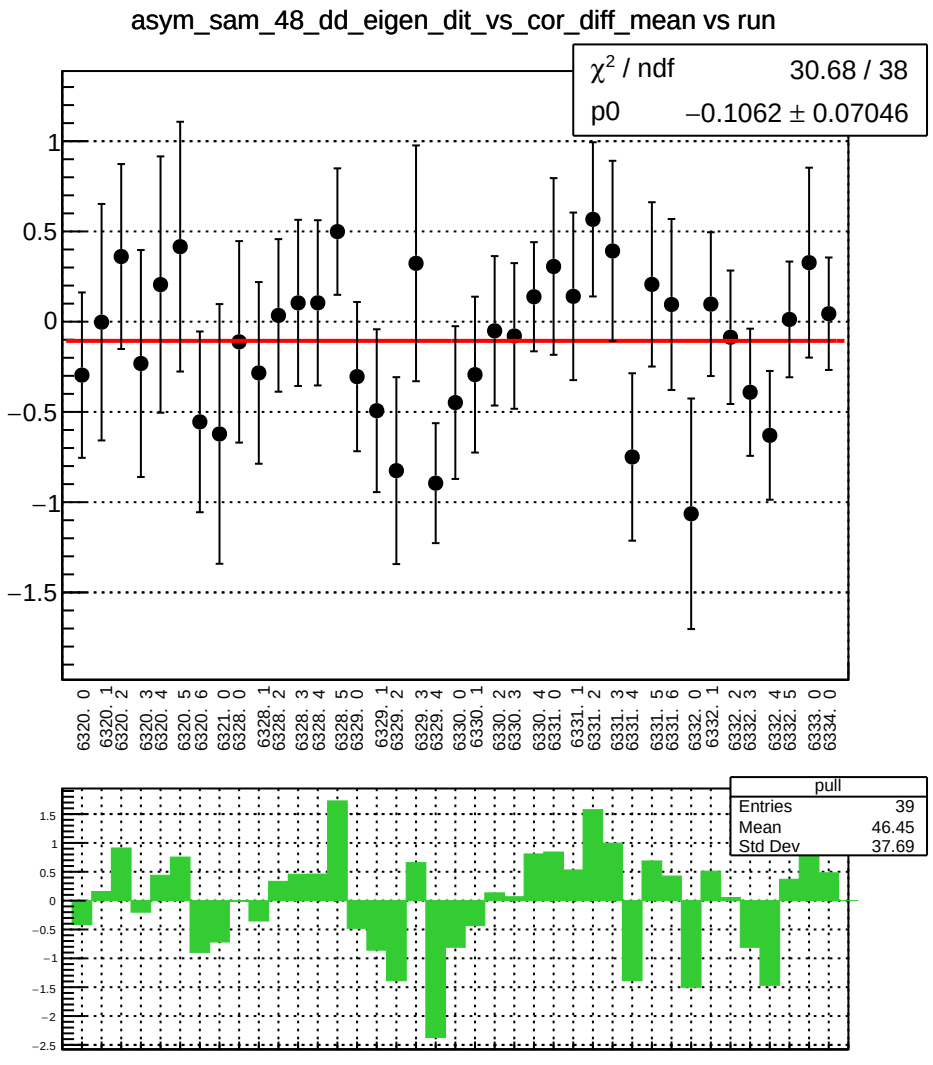

pull1D
Entries 39
Mean 0.002942
Std Dev 0.8869

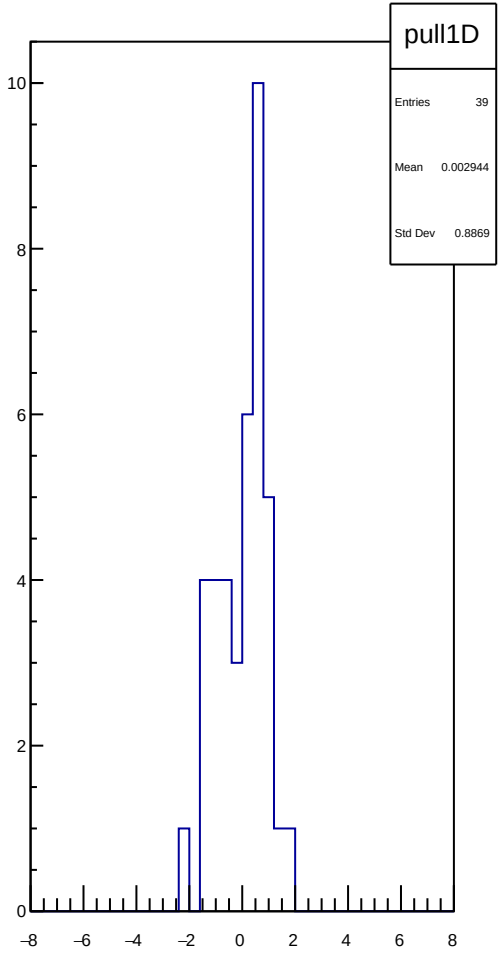

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 38
p0 42.63 ± 0.04982
70
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

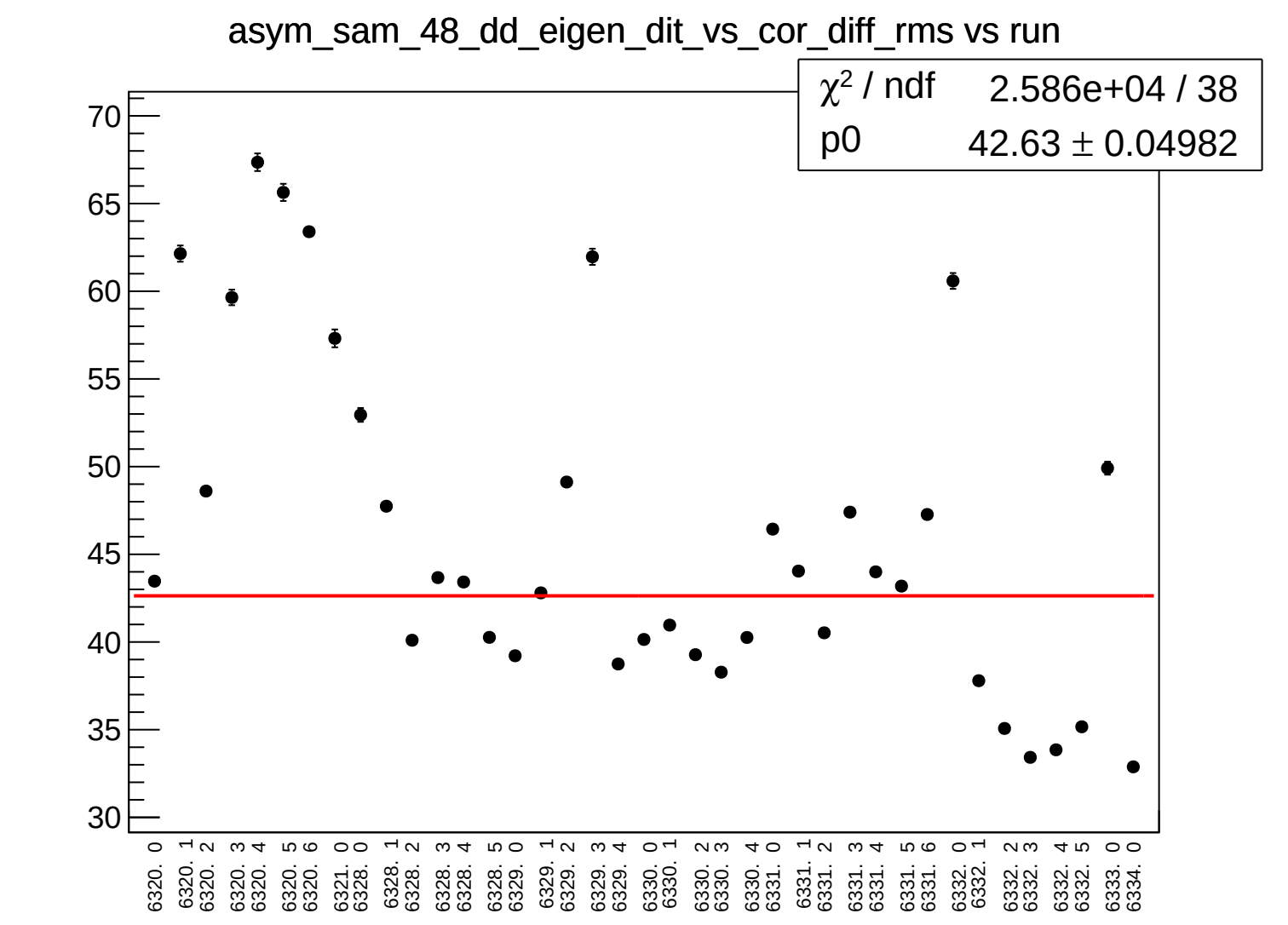

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.96 / 38
p0 4.344e−06 ± 3.121e−06
pull
Entries 39
Mean 27.7
Std Dev 20.36

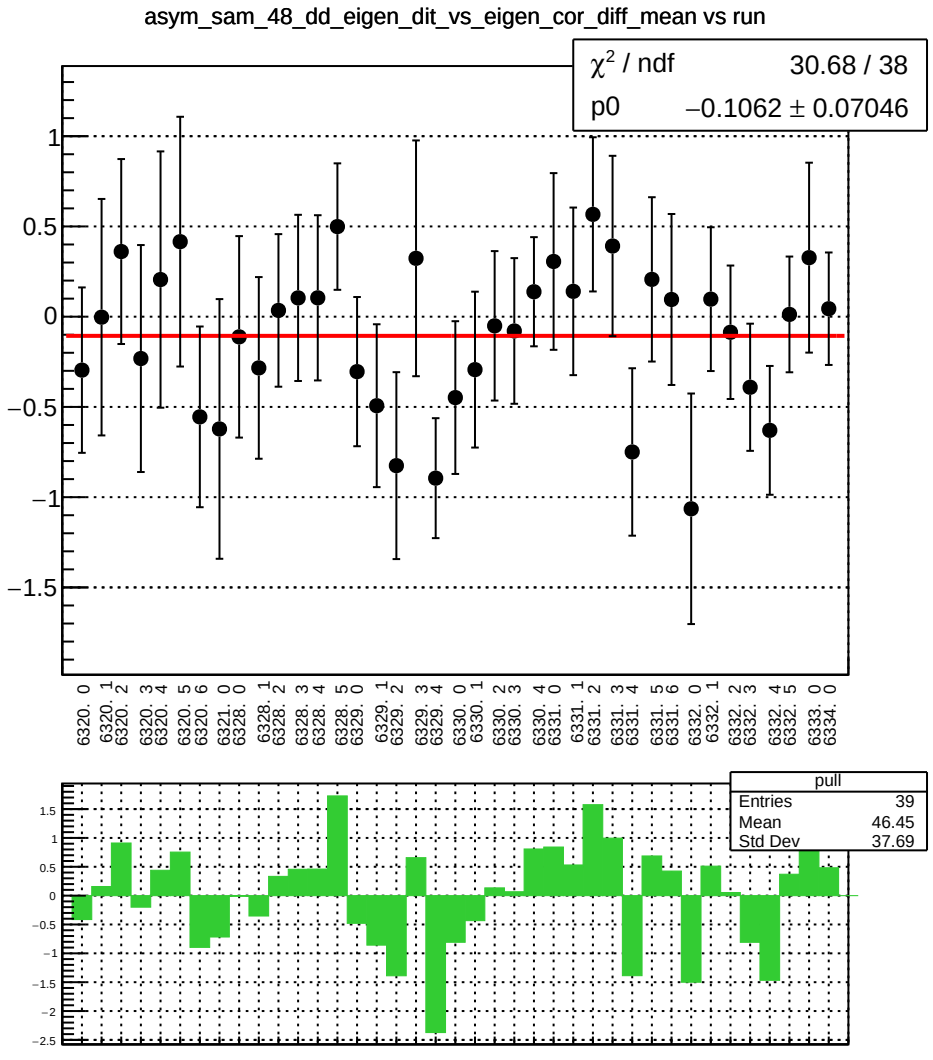

pull1D
Entries 39
Mean 0.05519
Std Dev 0.9036

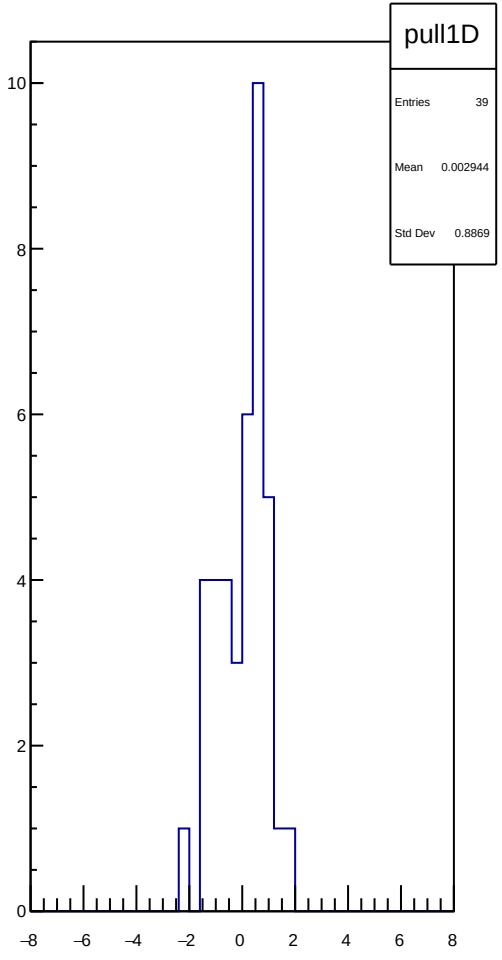

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.687e+04 / 38
p0 0.001848 ± 2.207e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

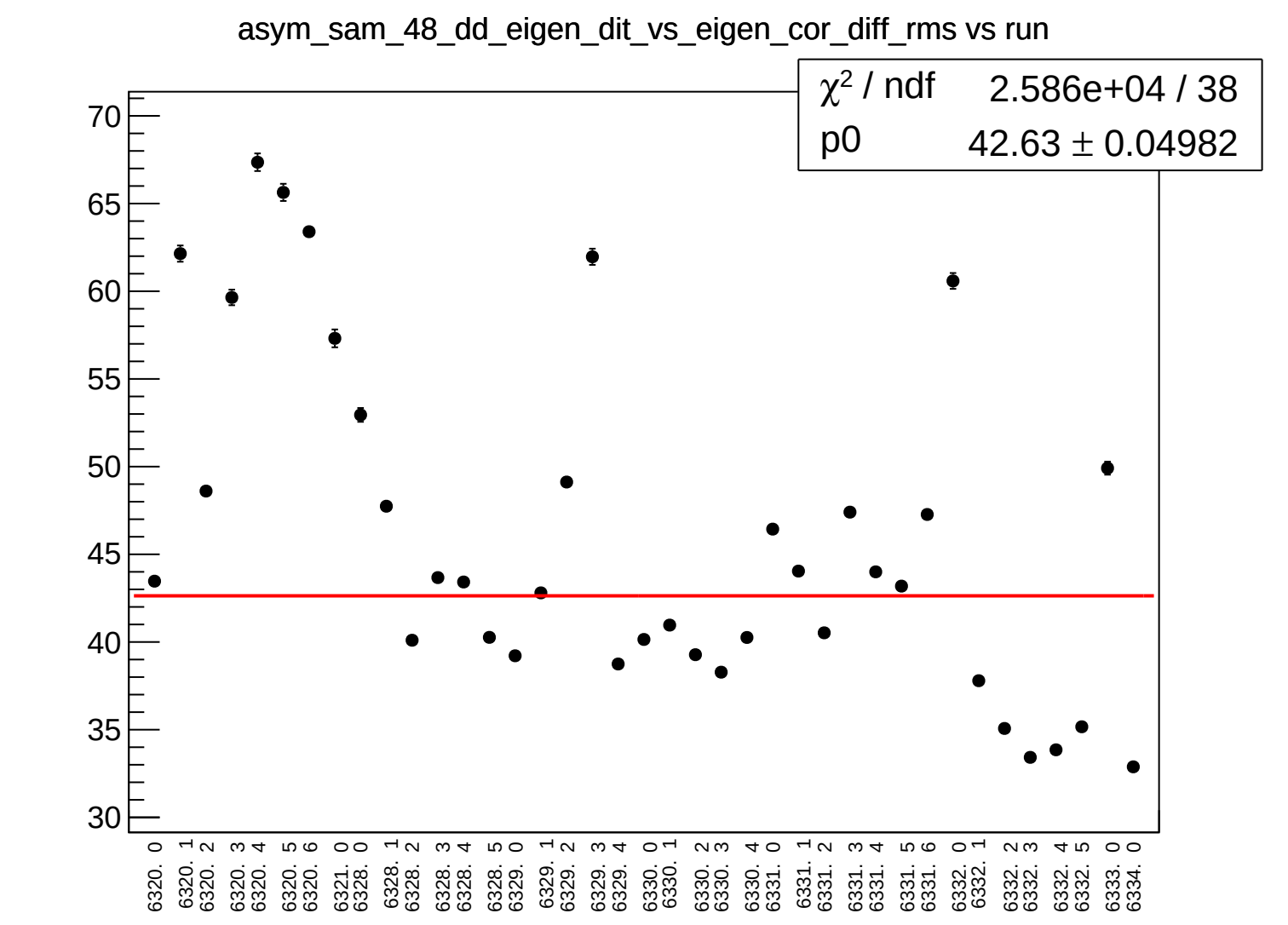

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.68 / 38
p0 −0.1062 ± 0.07046
pull
Entries 39
Mean 46.45
Std Dev 37.69

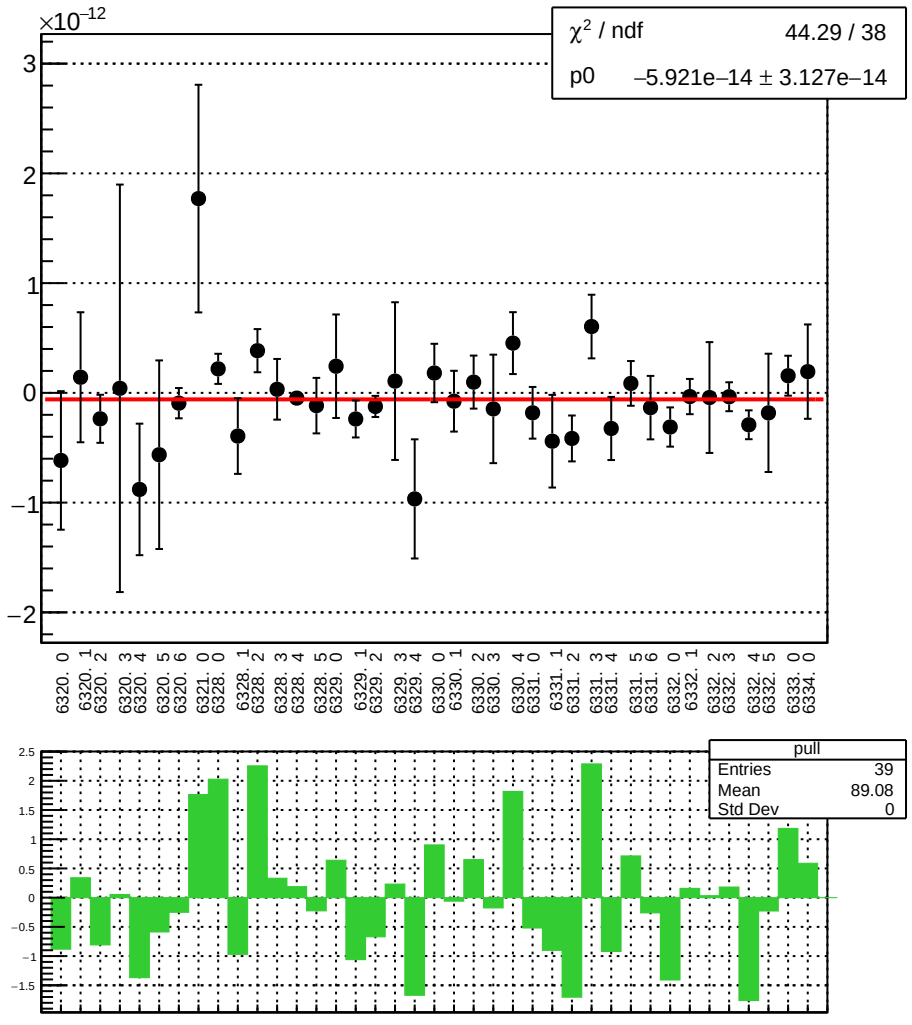

pull1D
Entries 39
Mean 0.002944
Std Dev 0.8869

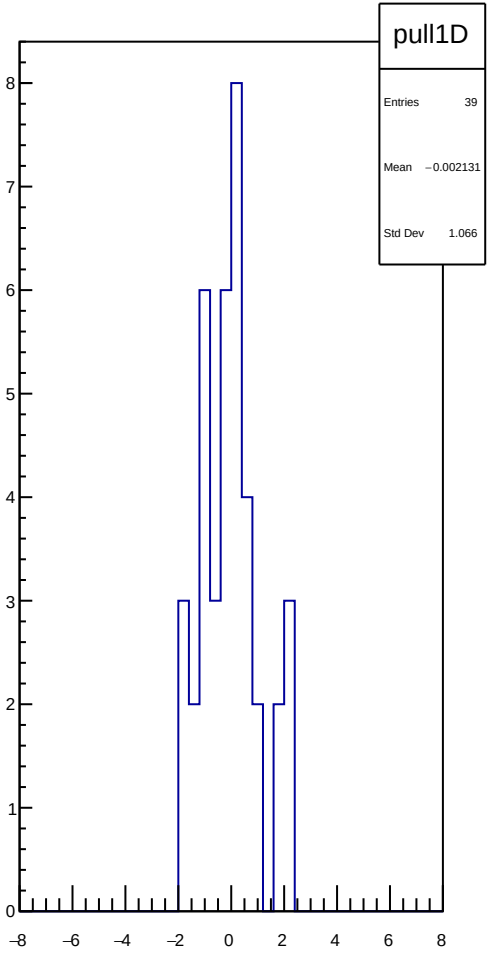

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 38
p0 42.63 ± 0.04982
70
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

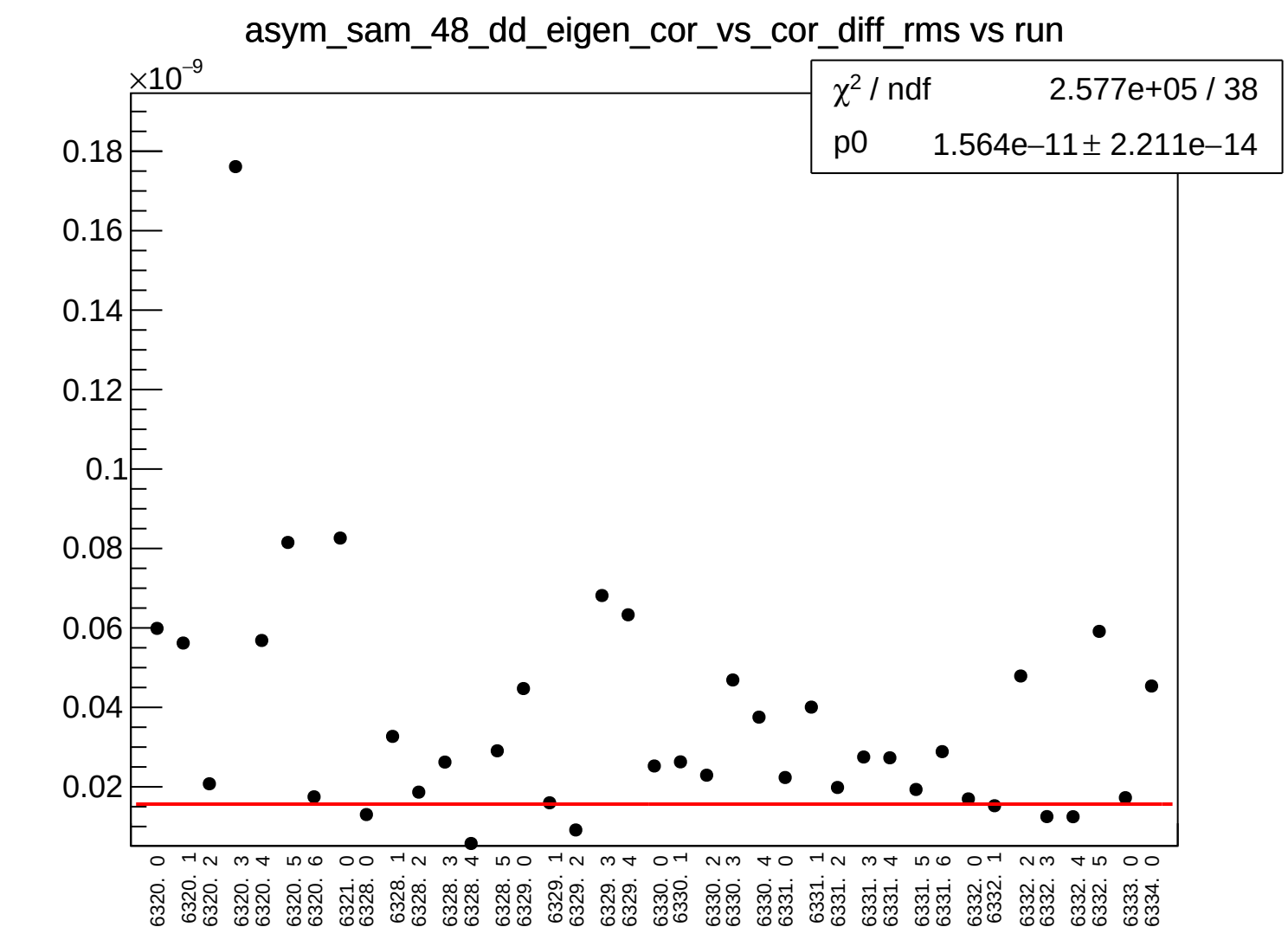

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.68 / 38
p0 −0.1062 ± 0.07046
pull
Entries 39
Mean 46.45
Std Dev 37.69

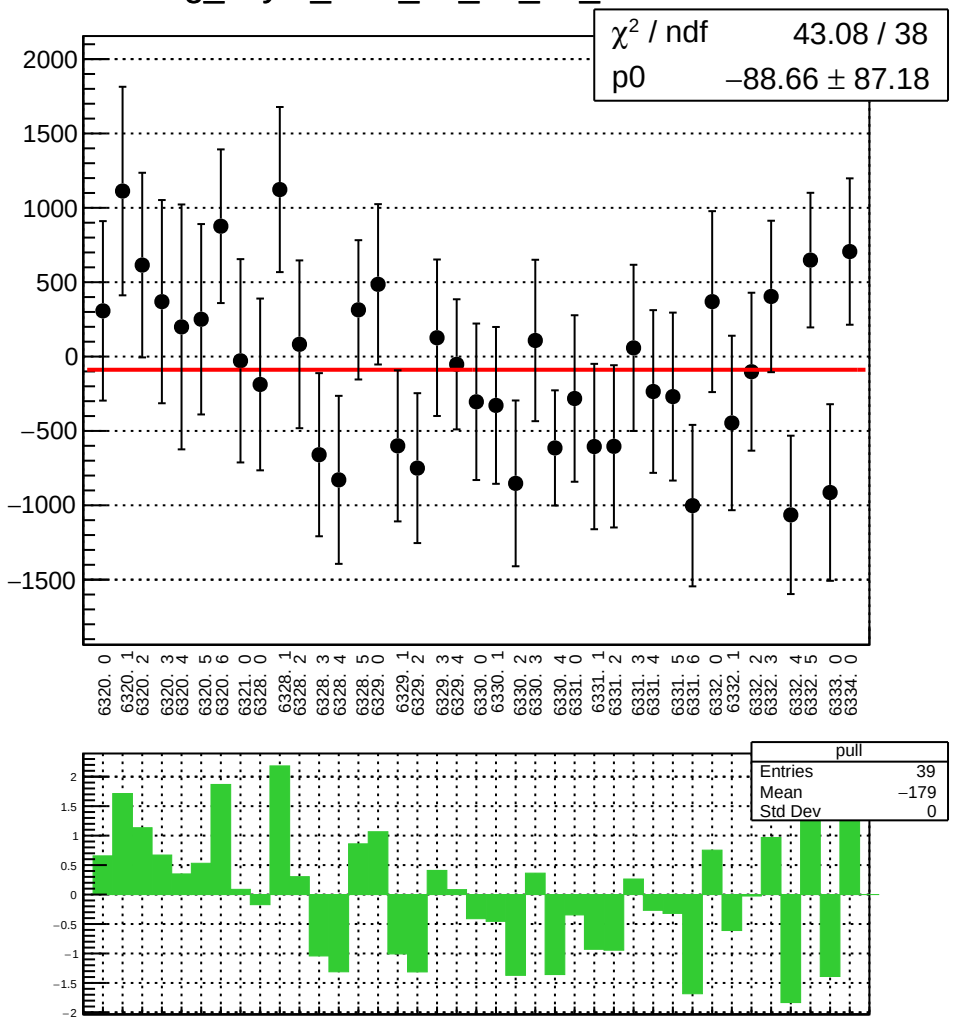

pull1D
Entries 39
Mean 0.002944
Std Dev 0.8869

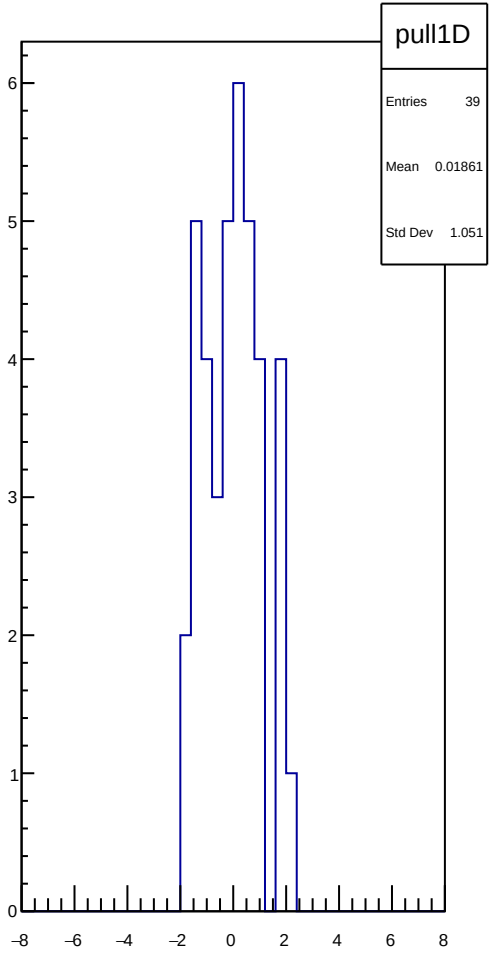

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 38
p0 42.63 ± 0.04982
70
65
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

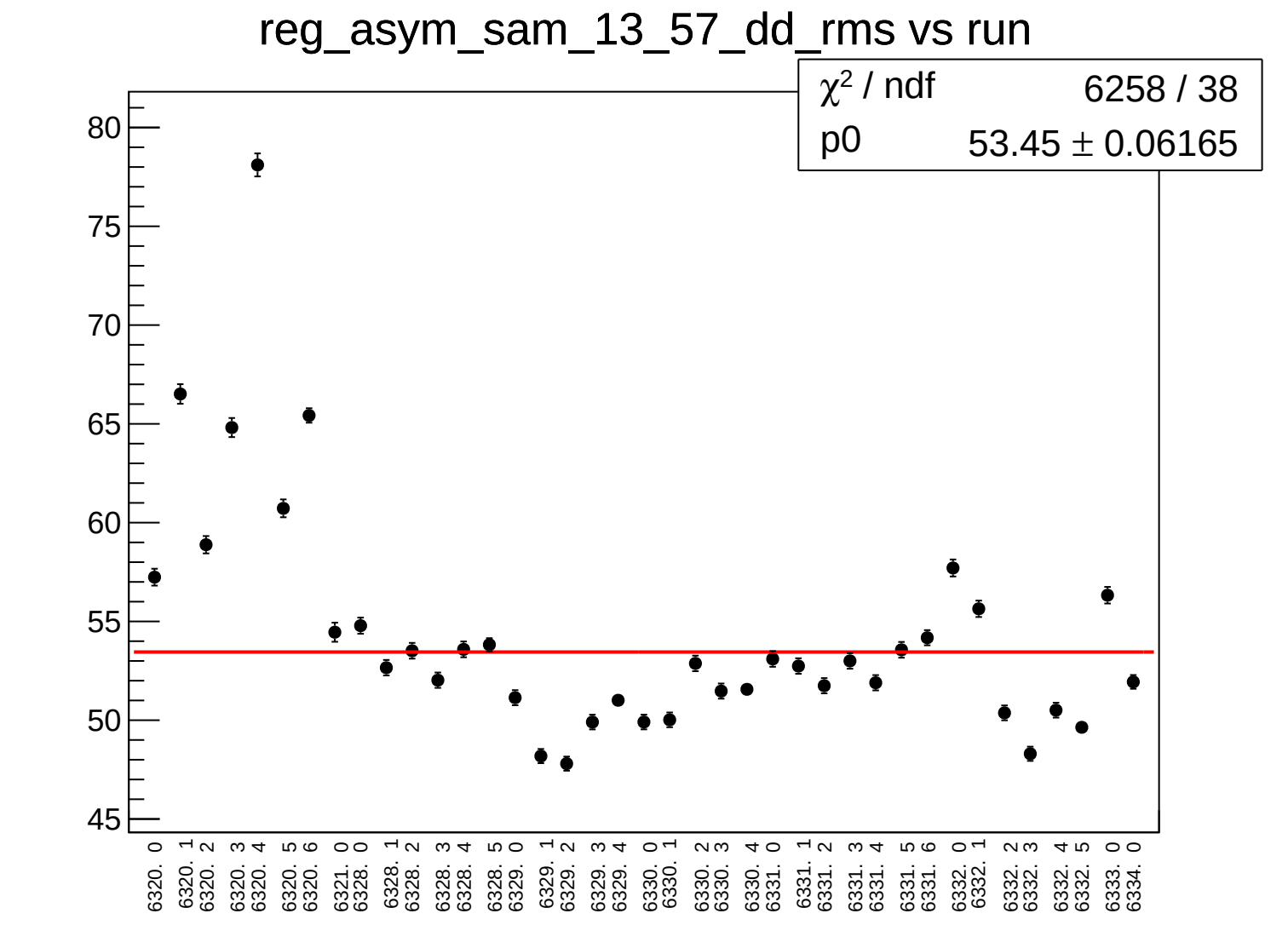

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.29 / 38
p0 −5.921e−14 ± 3.127e−14
pull
Entries 39
Mean 89.08
Std Dev 0

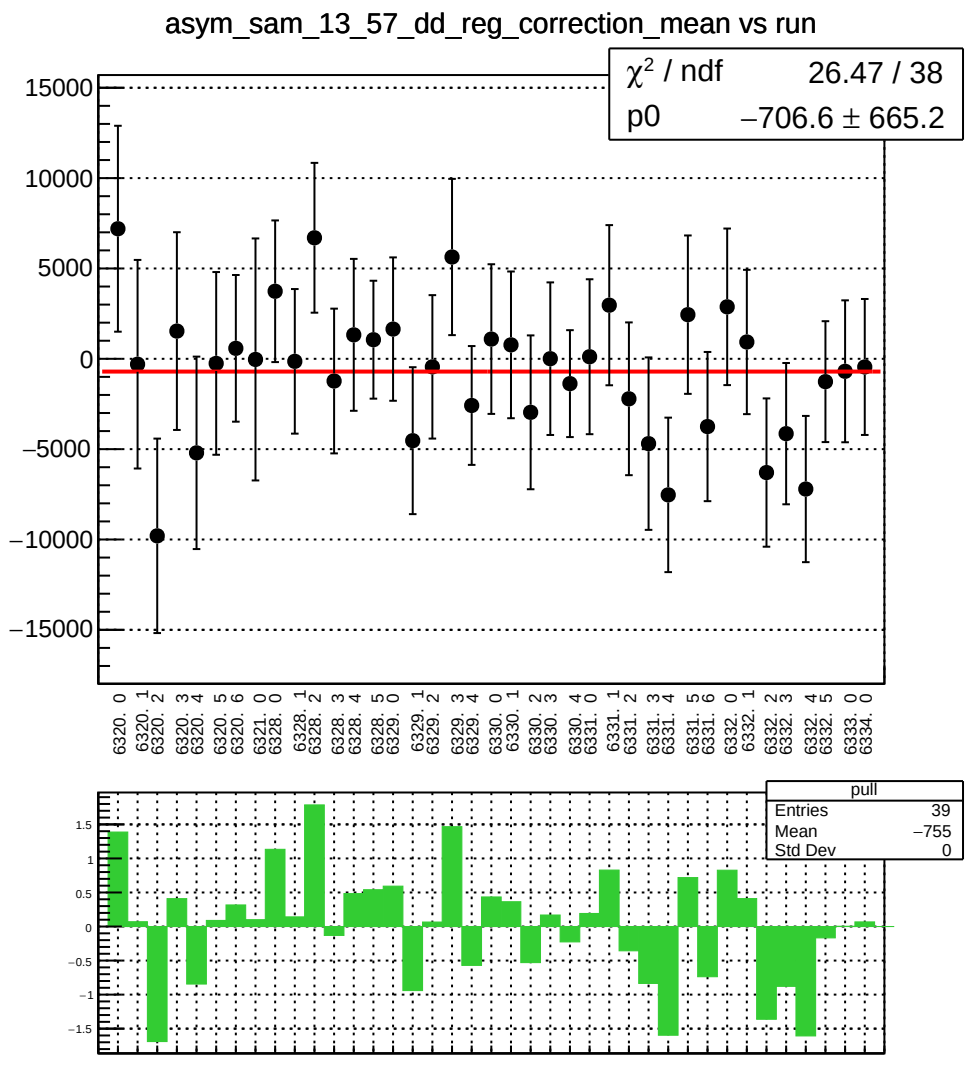

pull1D
Entries 39
Mean −0.002131
Std Dev 1.066

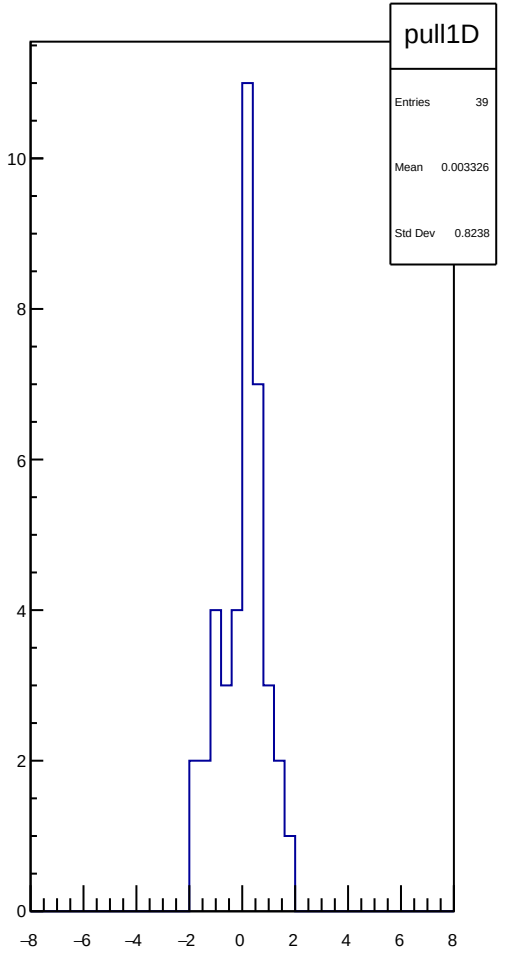

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.577e+05 / 38
p0 1.564e−11 ± 2.211e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

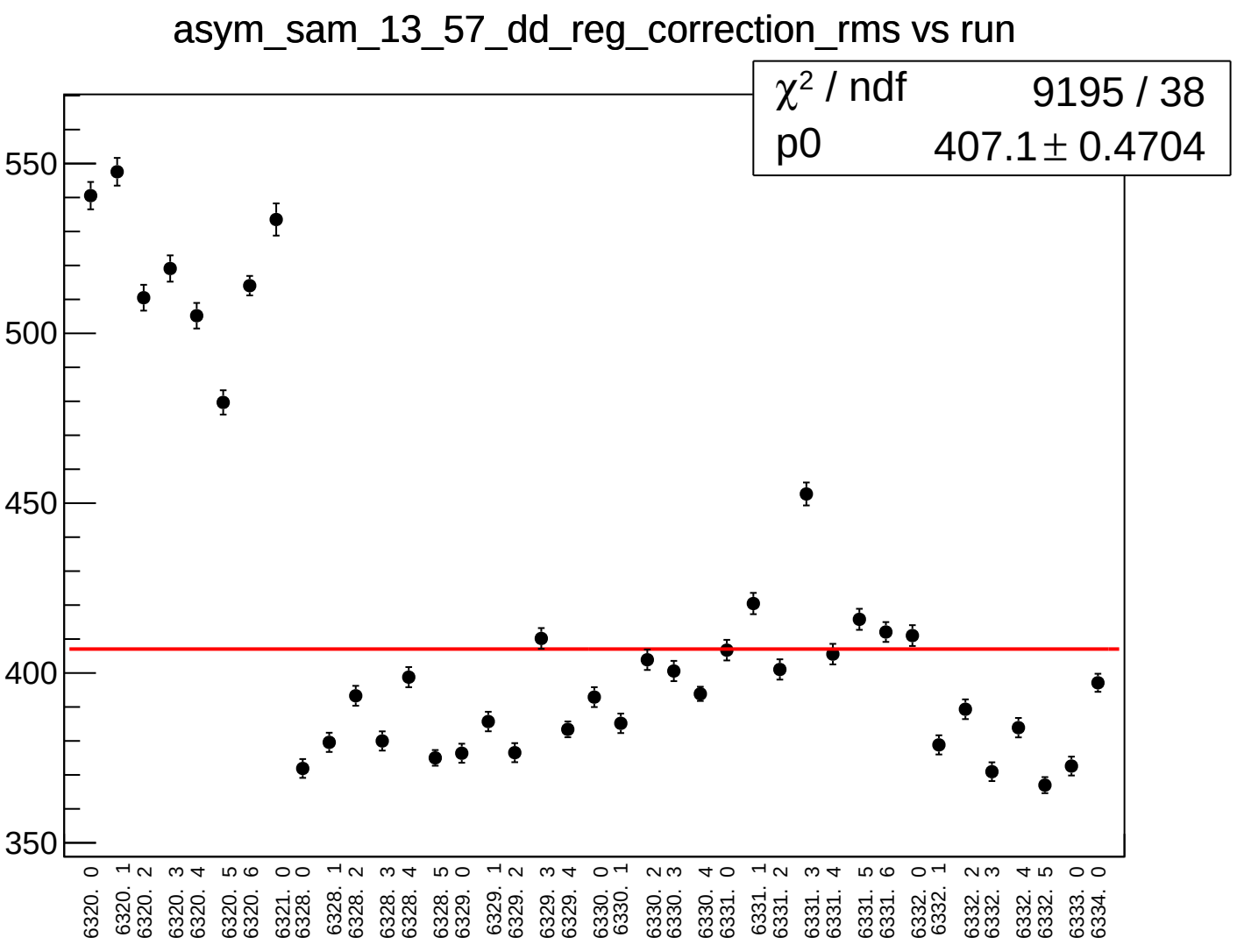

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 43.08 / 38
p0 −88.66 ± 87.18
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −179
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

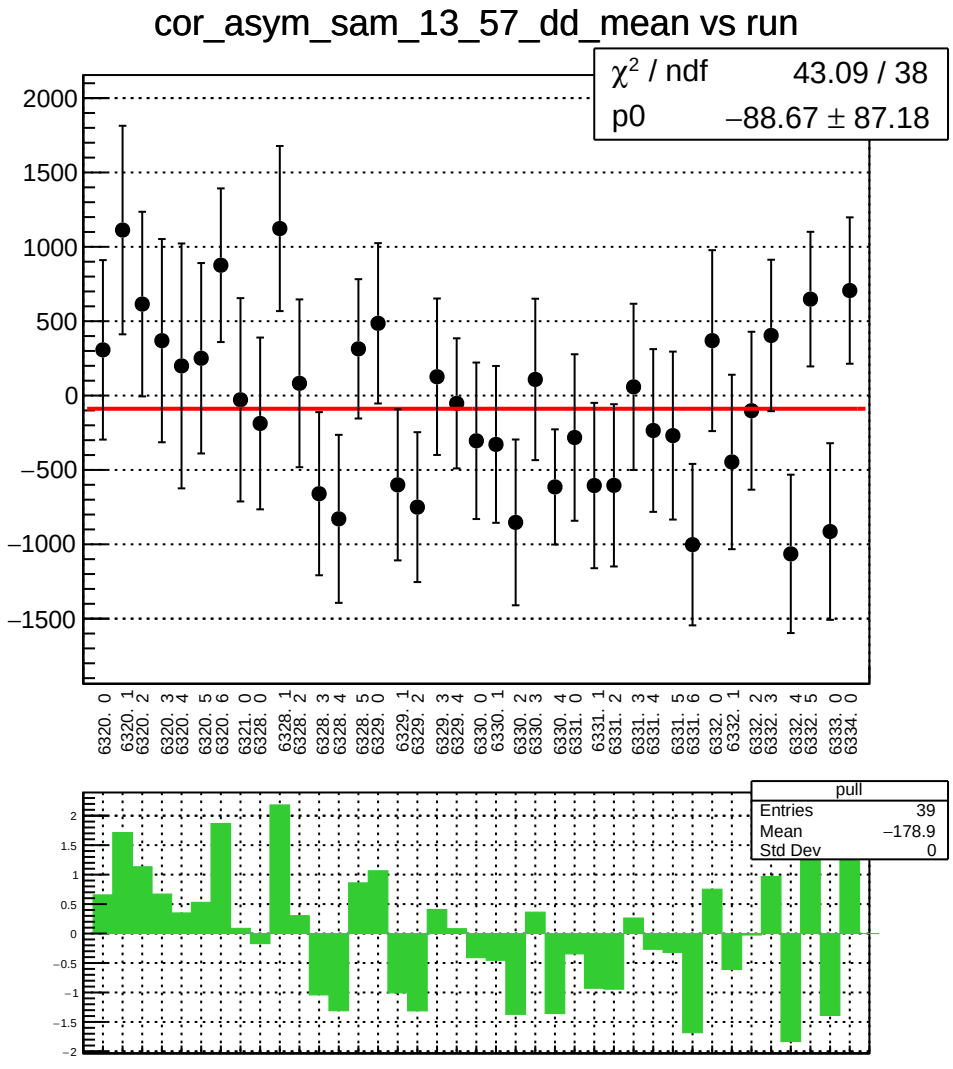

pull1D
Entries 39
Mean 0.01861
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

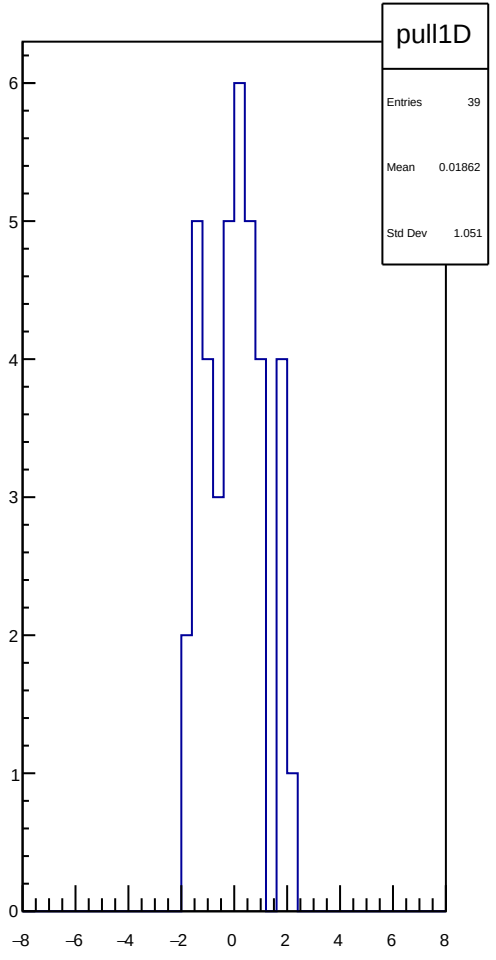

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 6258 / 38
p0 53.45 ± 0.06165
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

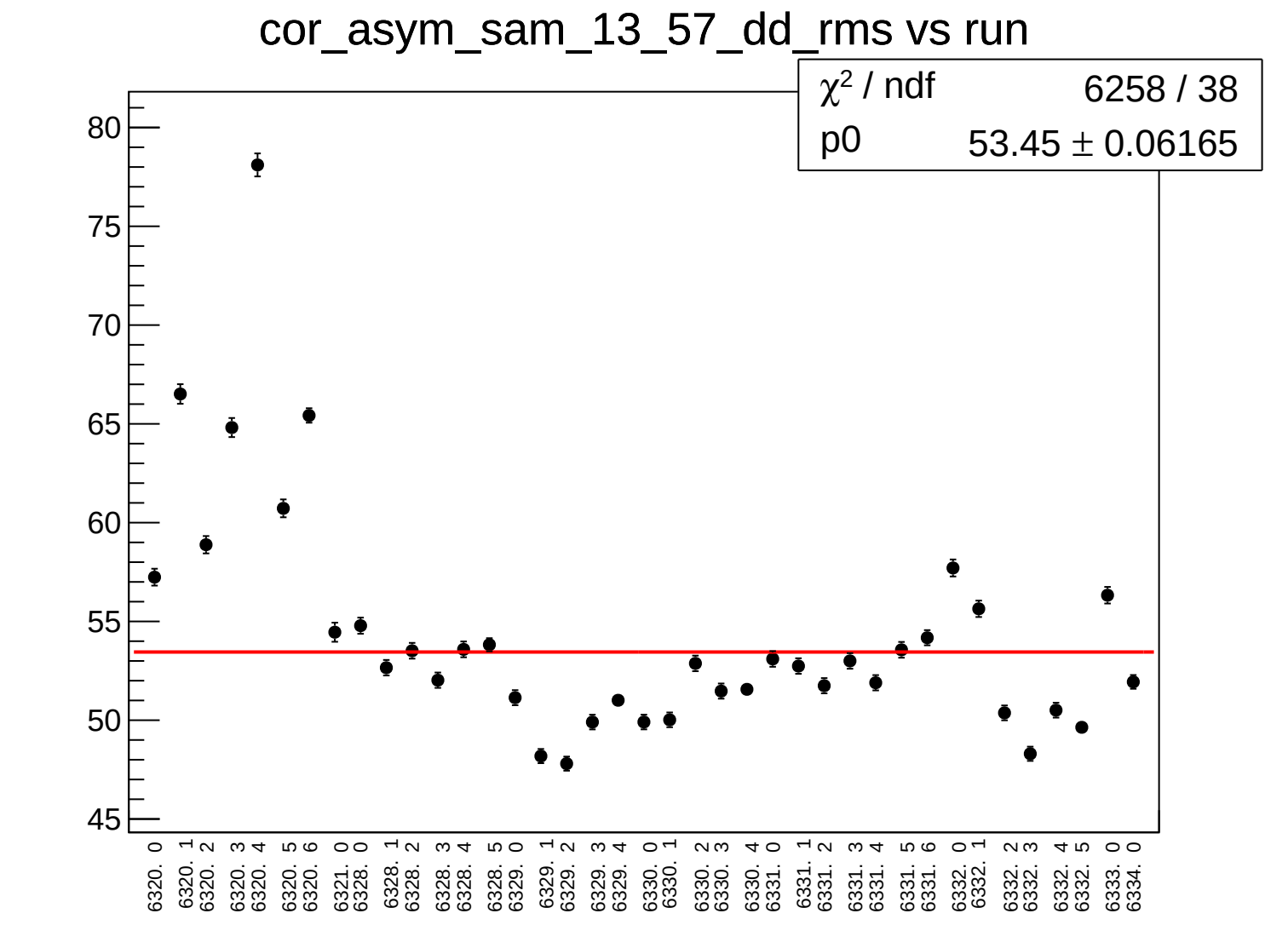

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 26.47 / 38
p0 −706.6 ± 665.2
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −755
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

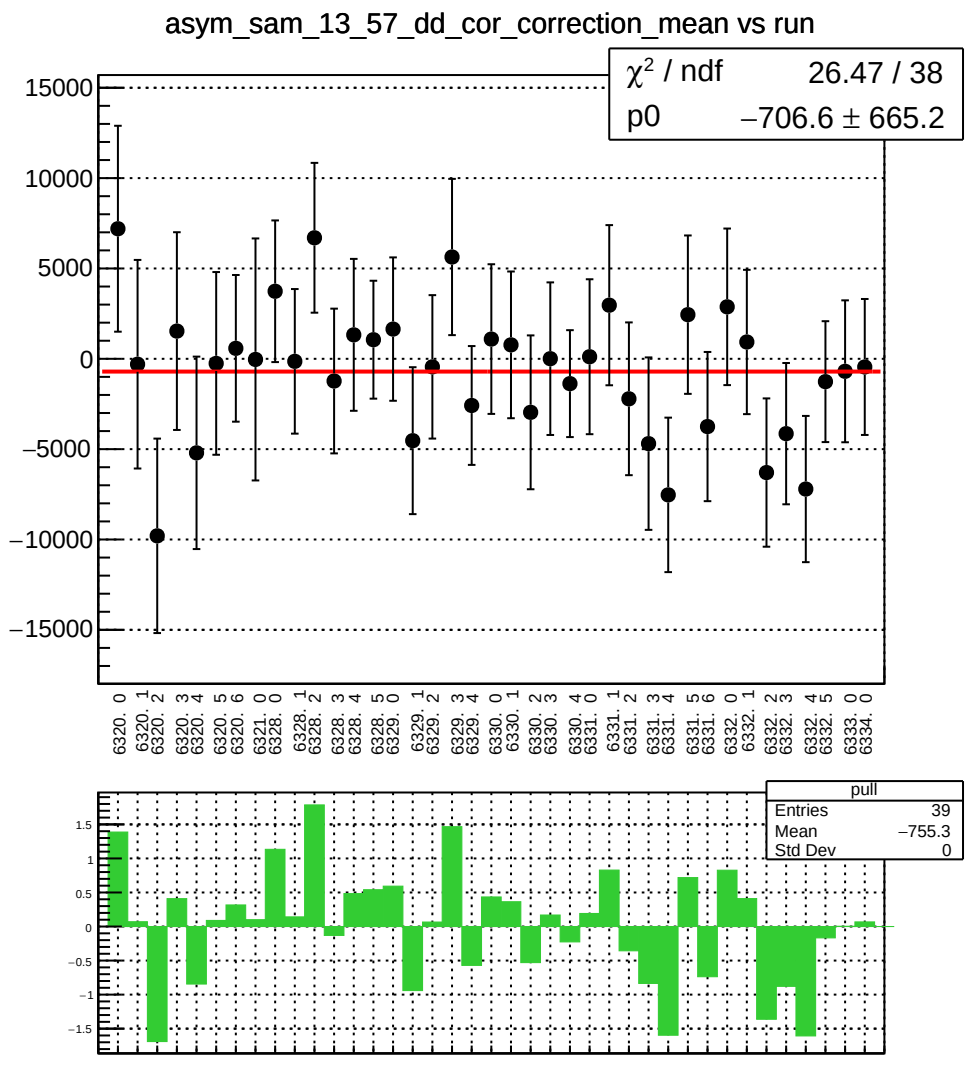

pull1D
Entries 39
Mean 0.003326
Std Dev 0.8238
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

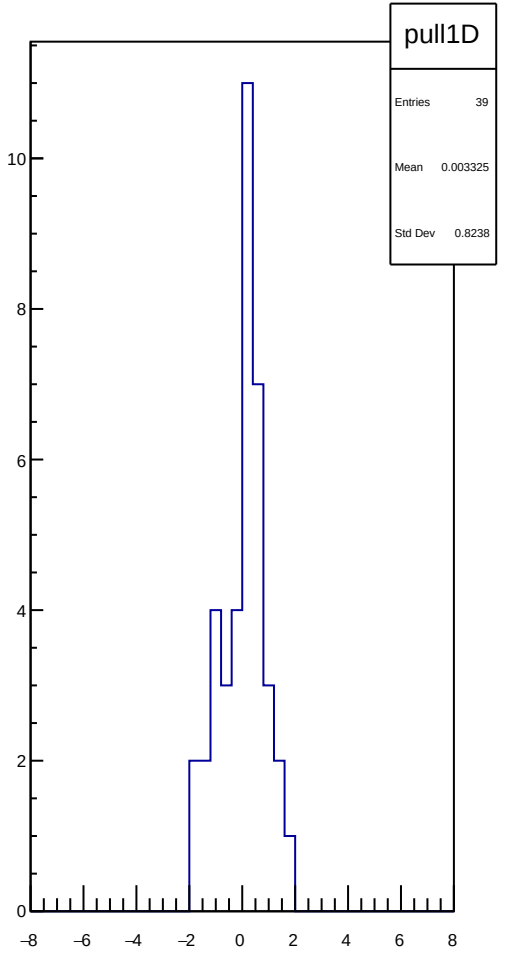

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 9195 / 38
p0 407.1 ± 0.4704
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

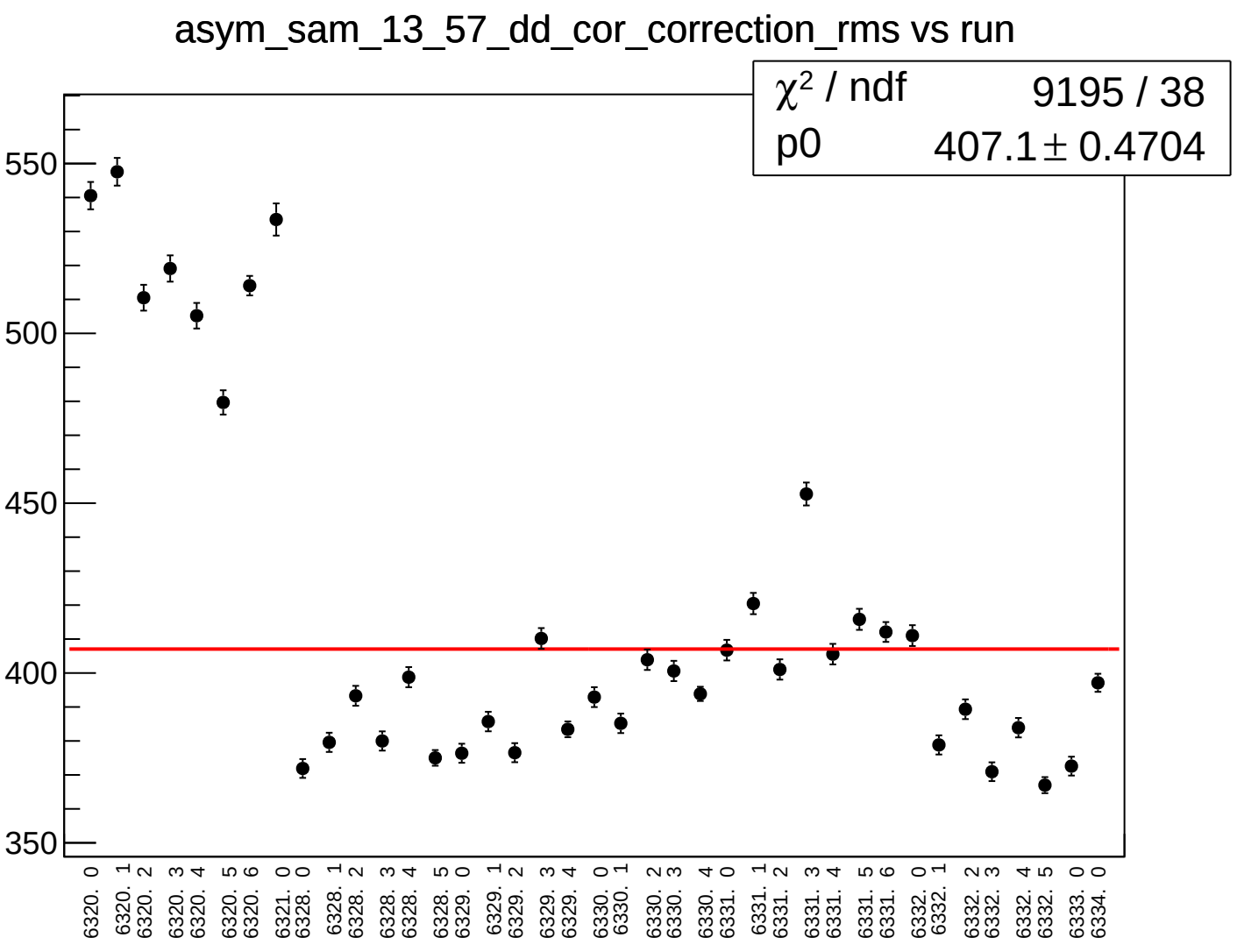

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 43.09 / 38
p0 −88.67 ± 87.18
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −178.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

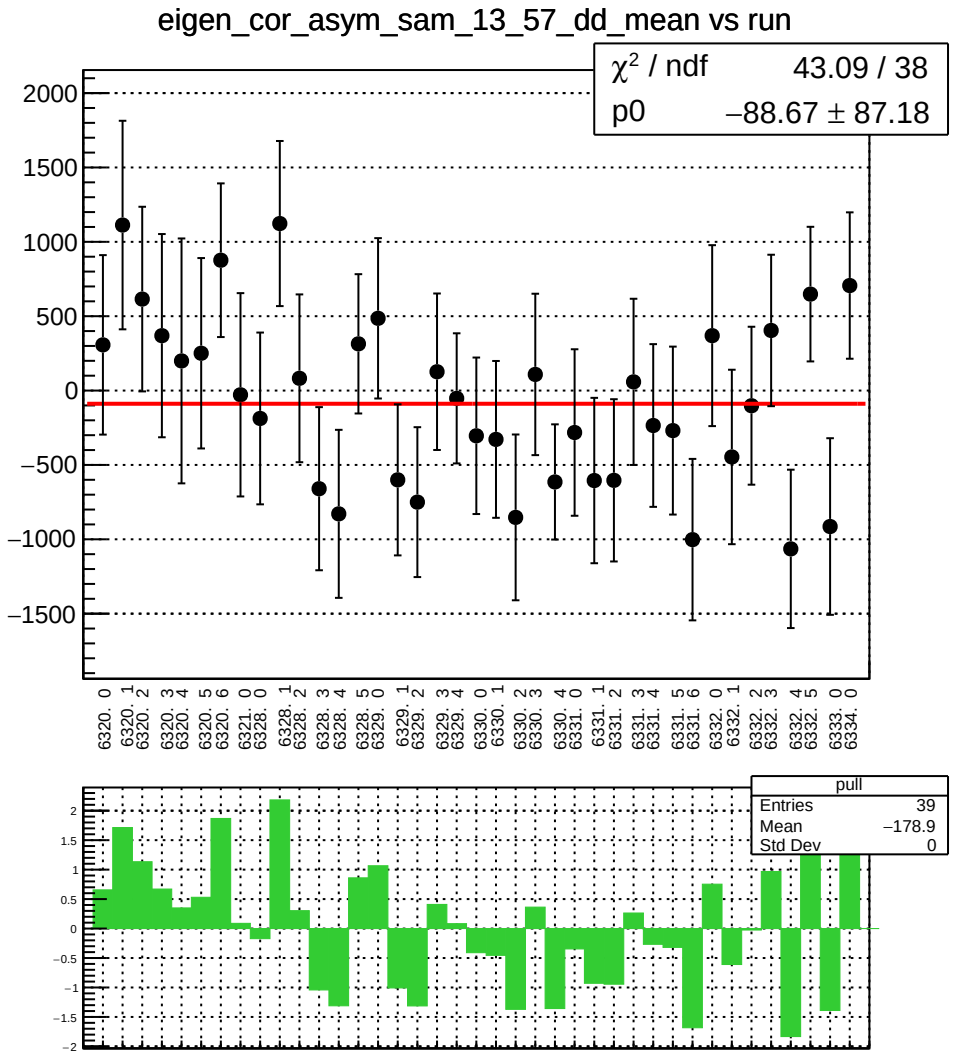

pull1D
Entries 39
Mean 0.01862
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

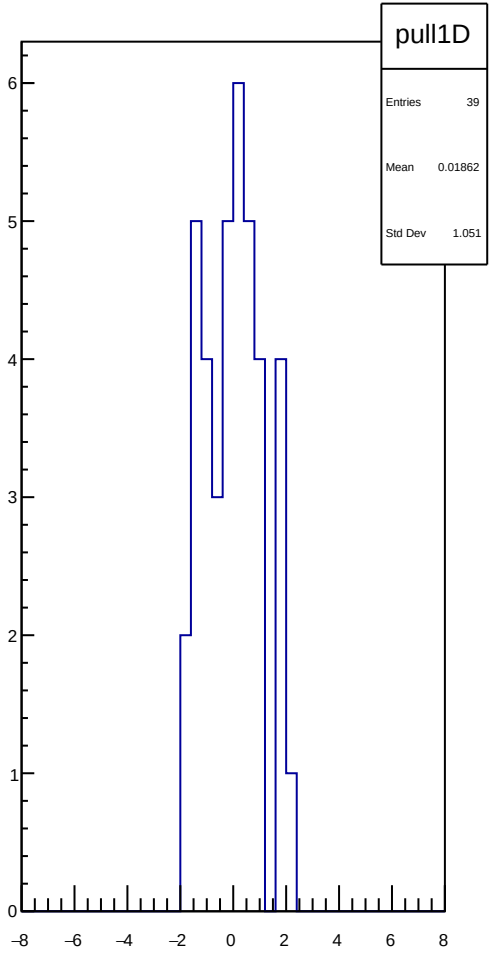

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6258 / 38
p0 53.45 ± 0.06165
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

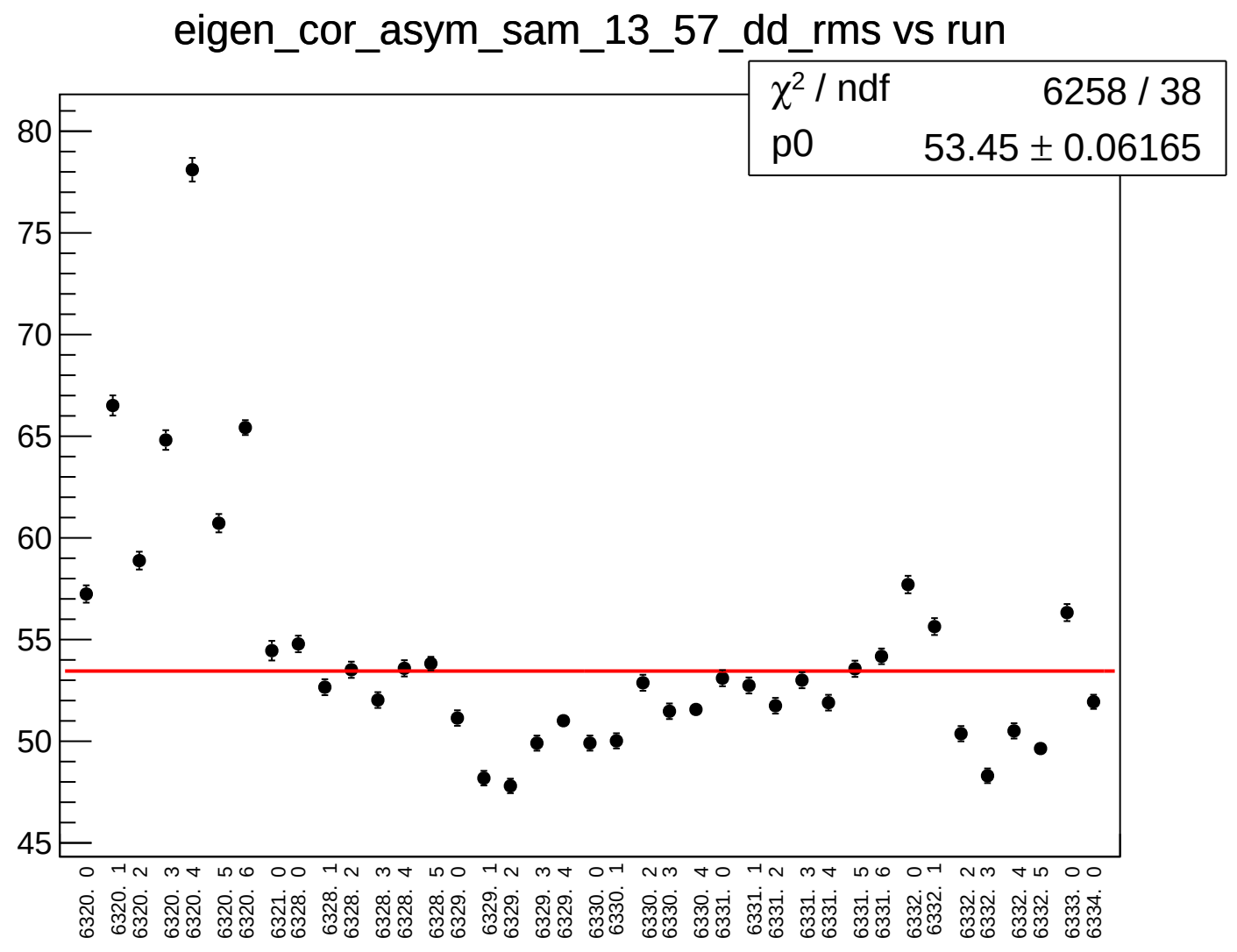

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 26.47 / 38
p0 −706.6 ± 665.2
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −755.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

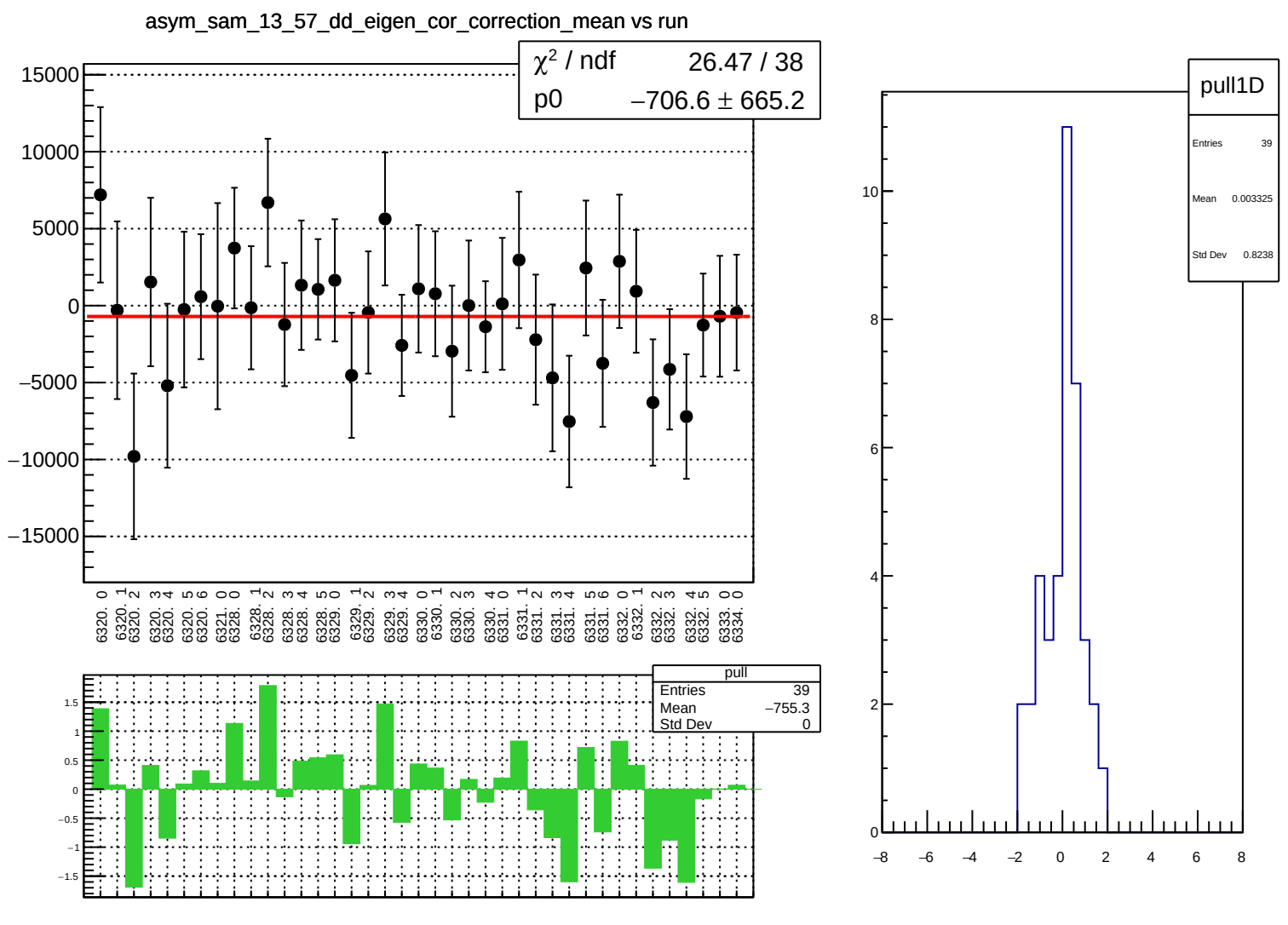

pull1D
Entries 39
Mean 0.003325
Std Dev 0.8238
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 9195 / 38
p0 407.1 ± 0.4704
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 43.09 / 38
p0 −88.67 ± 87.18
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −178.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.01862
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6258 / 38
p0 53.45 ± 0.06165
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.47 / 38
p0 −706.6 ± 665.2
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −755.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.003325
Std Dev 0.8238
10
8
6
4
2
0
−8
−6
−4
−2
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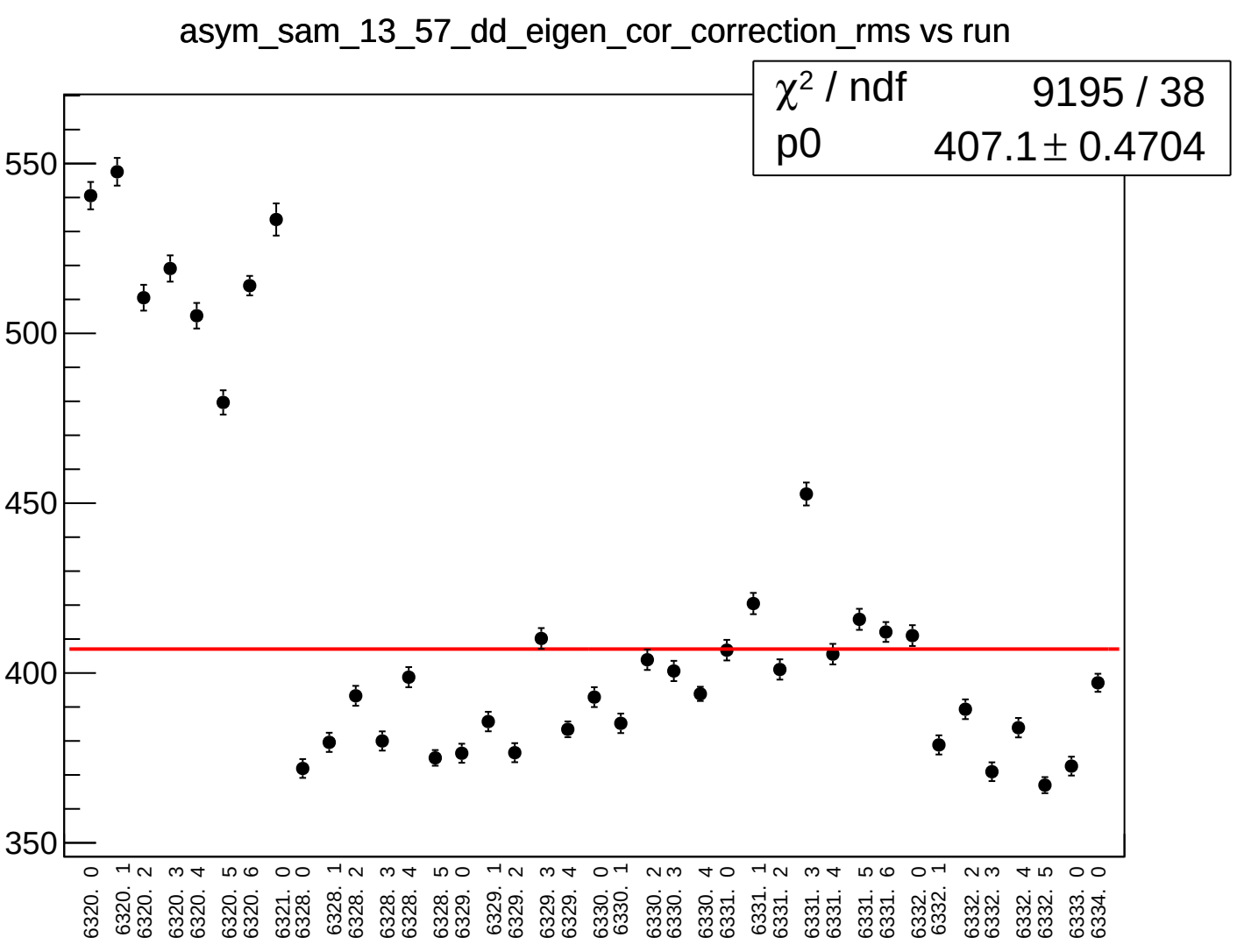
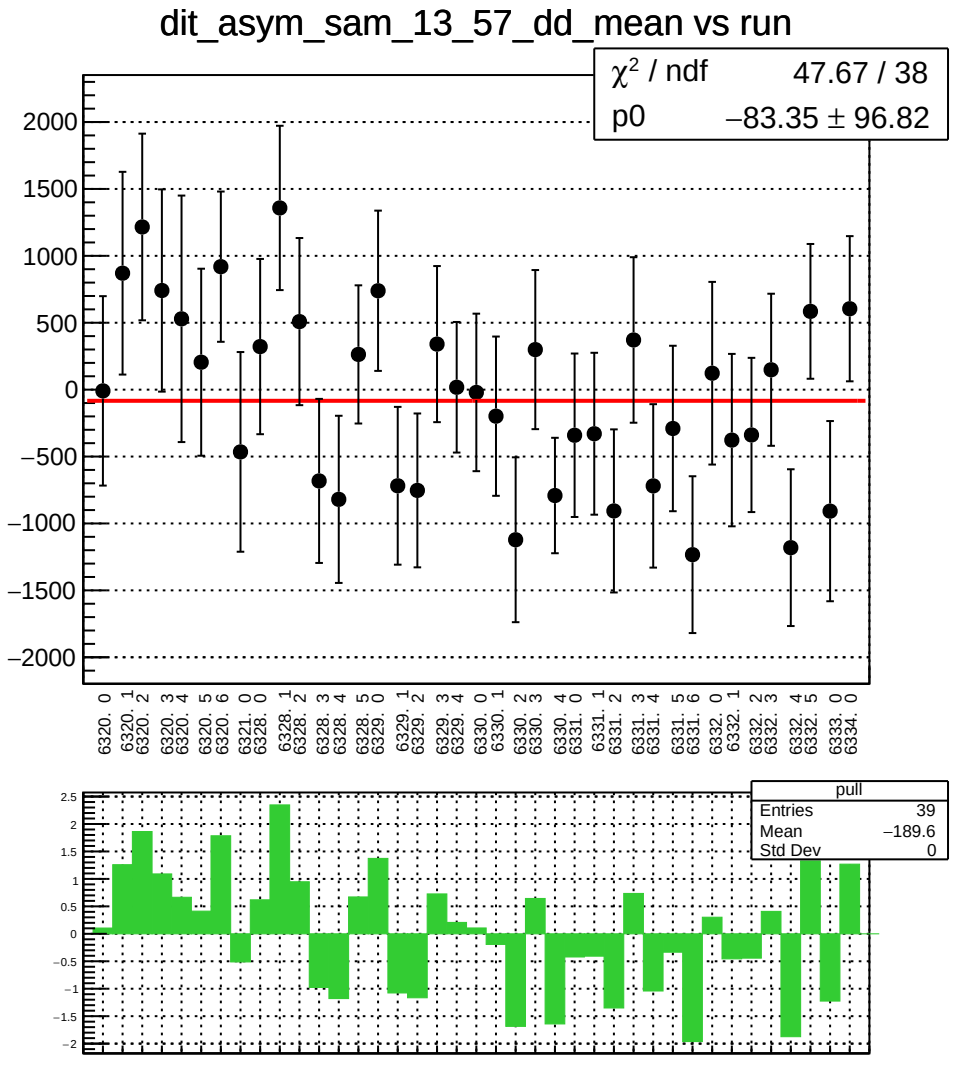
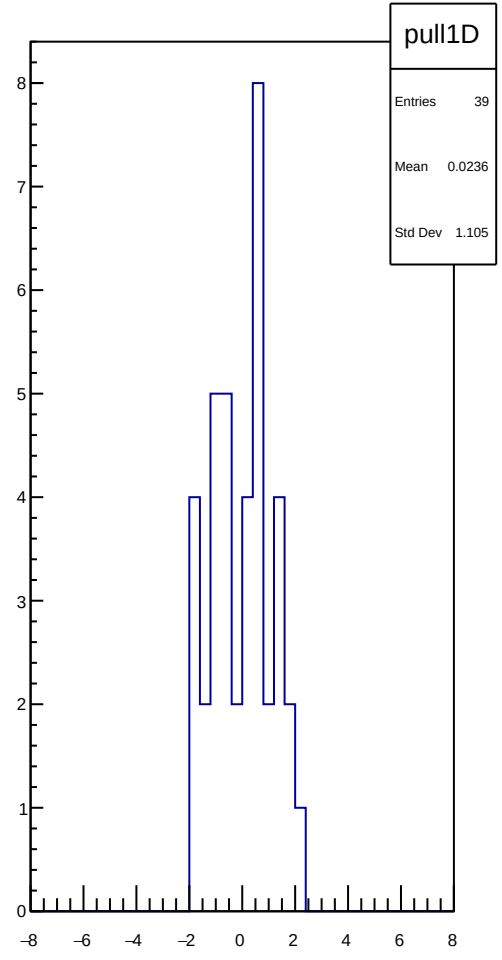
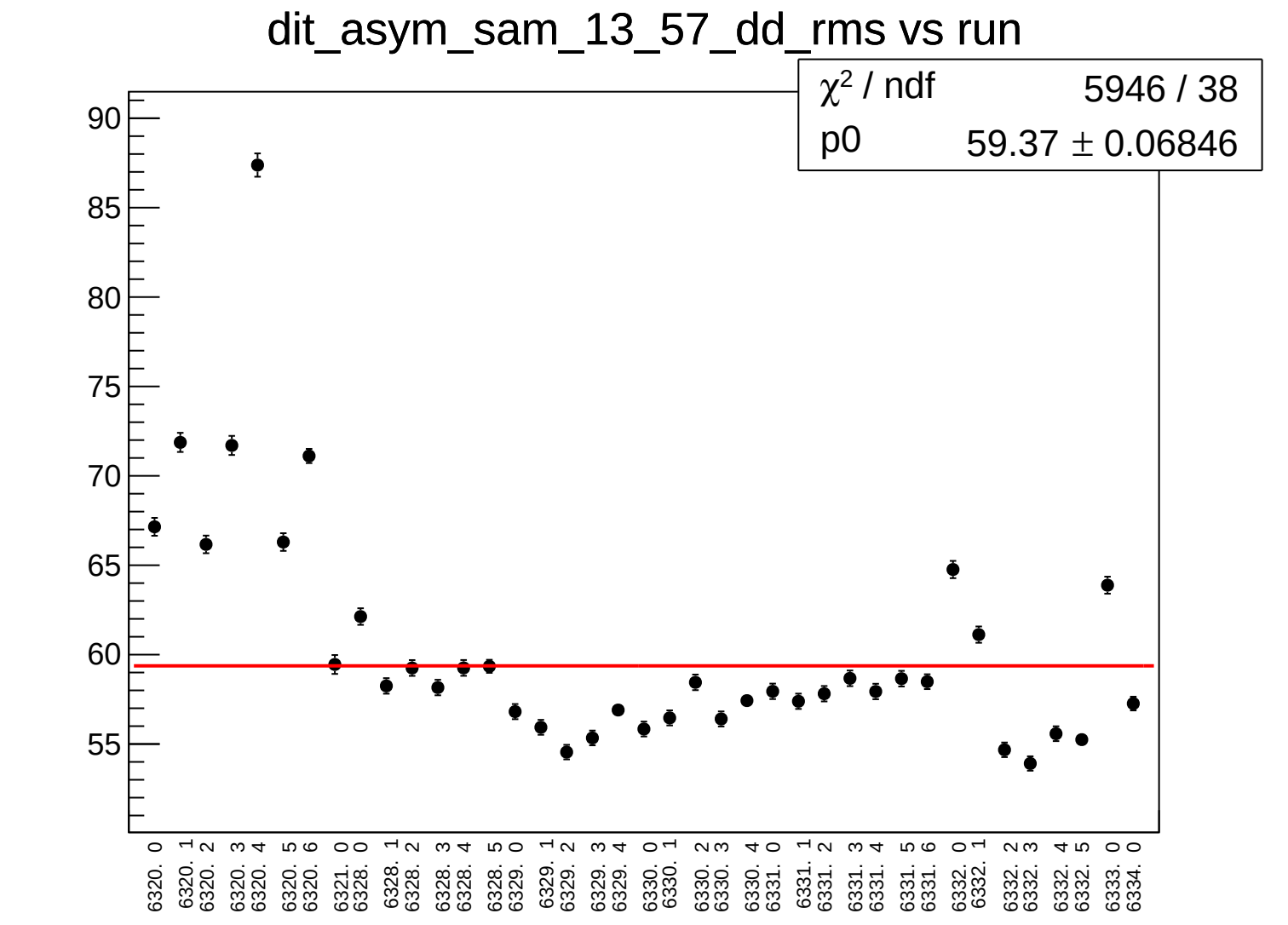
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 9195 / 38
p0 407.1 ± 0.4704
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 47.67 / 38
p0 −83.35 ± 96.82
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −189.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.0236
Std Dev 1.105
8
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 5946 / 38
p0 59.37 ± 0.06846
90
85
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
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6329. 0
6329. 1
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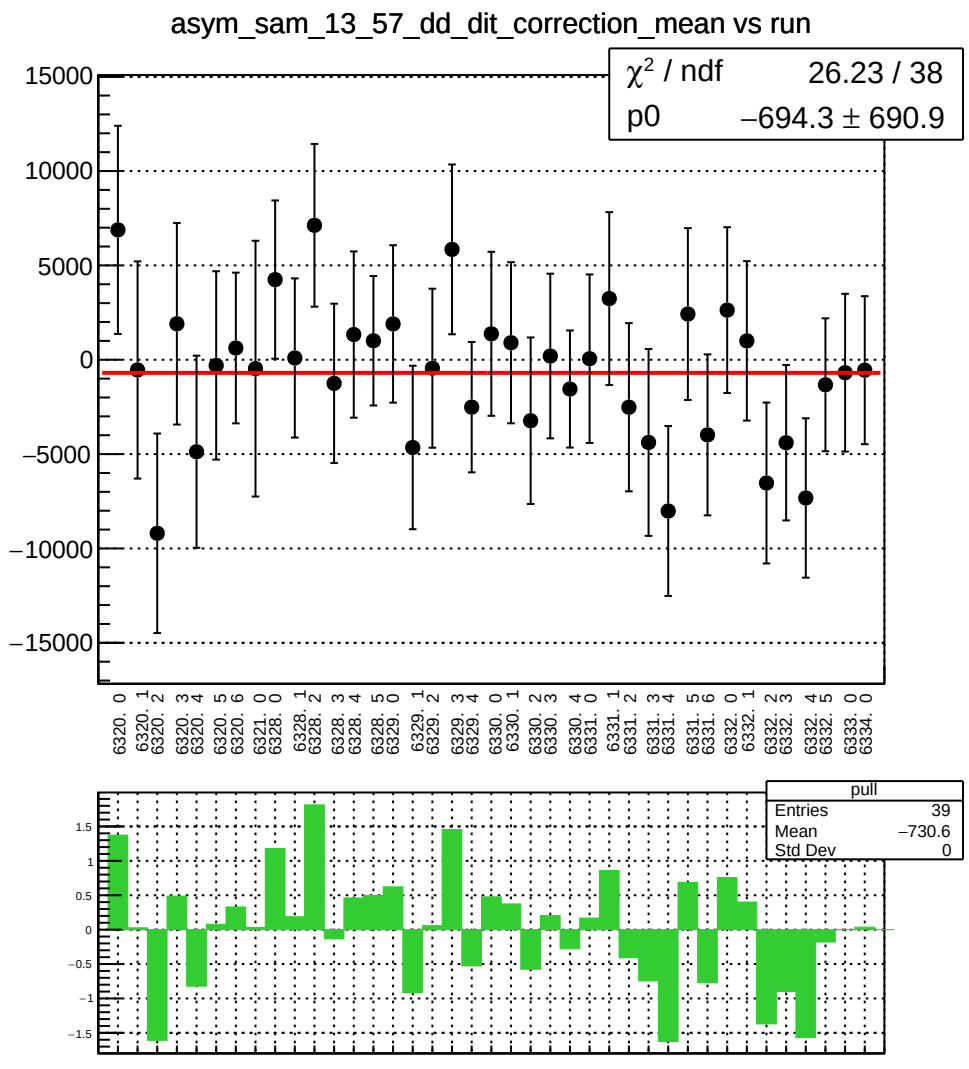
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 26.23 / 38
p0 −694.3 ± 690.9
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
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6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
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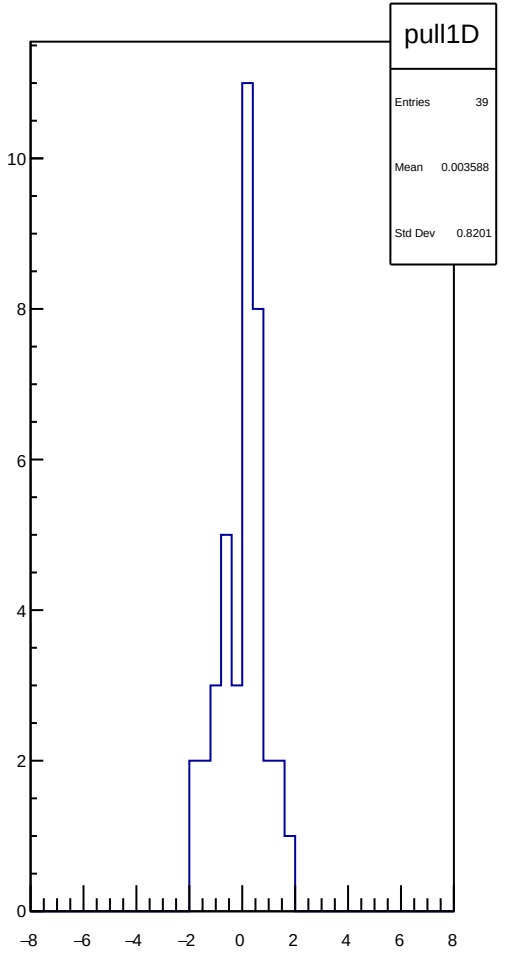
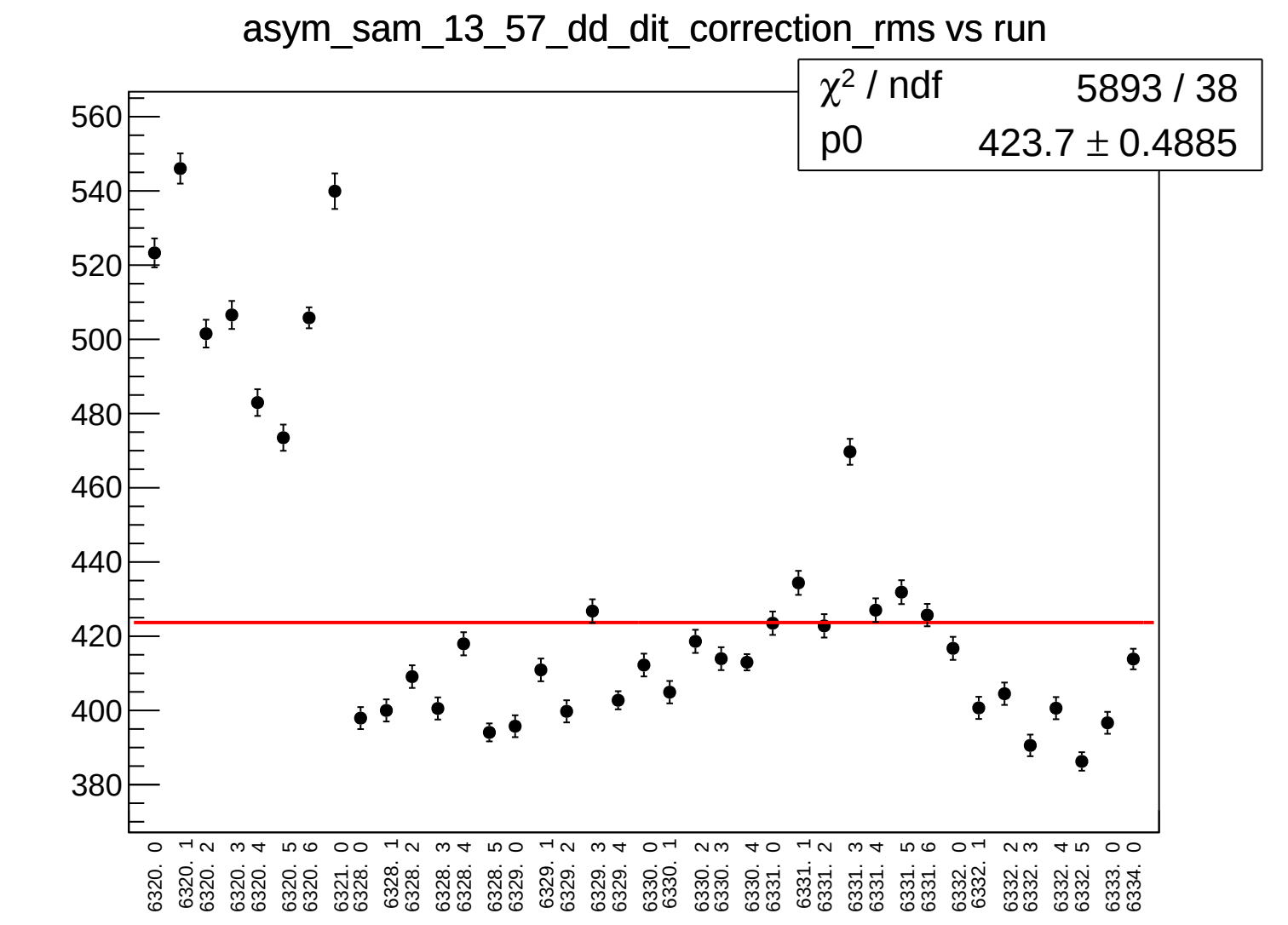
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −730.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.003588
Std Dev 0.8201
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5893 / 38
p0 423.7 ± 0.4885
560
540
520
500
480
460
440
420
400
380
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
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6331. 4
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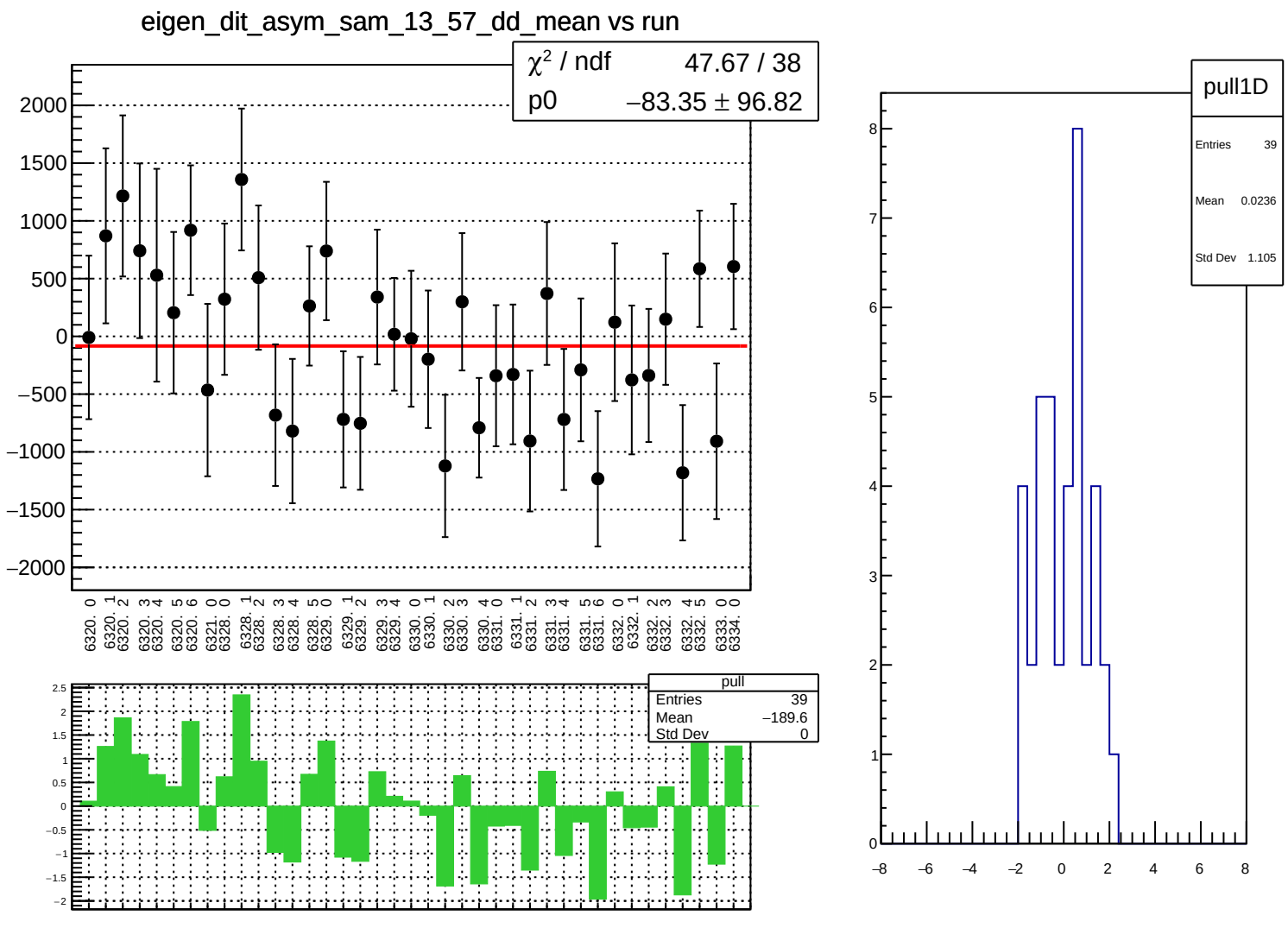
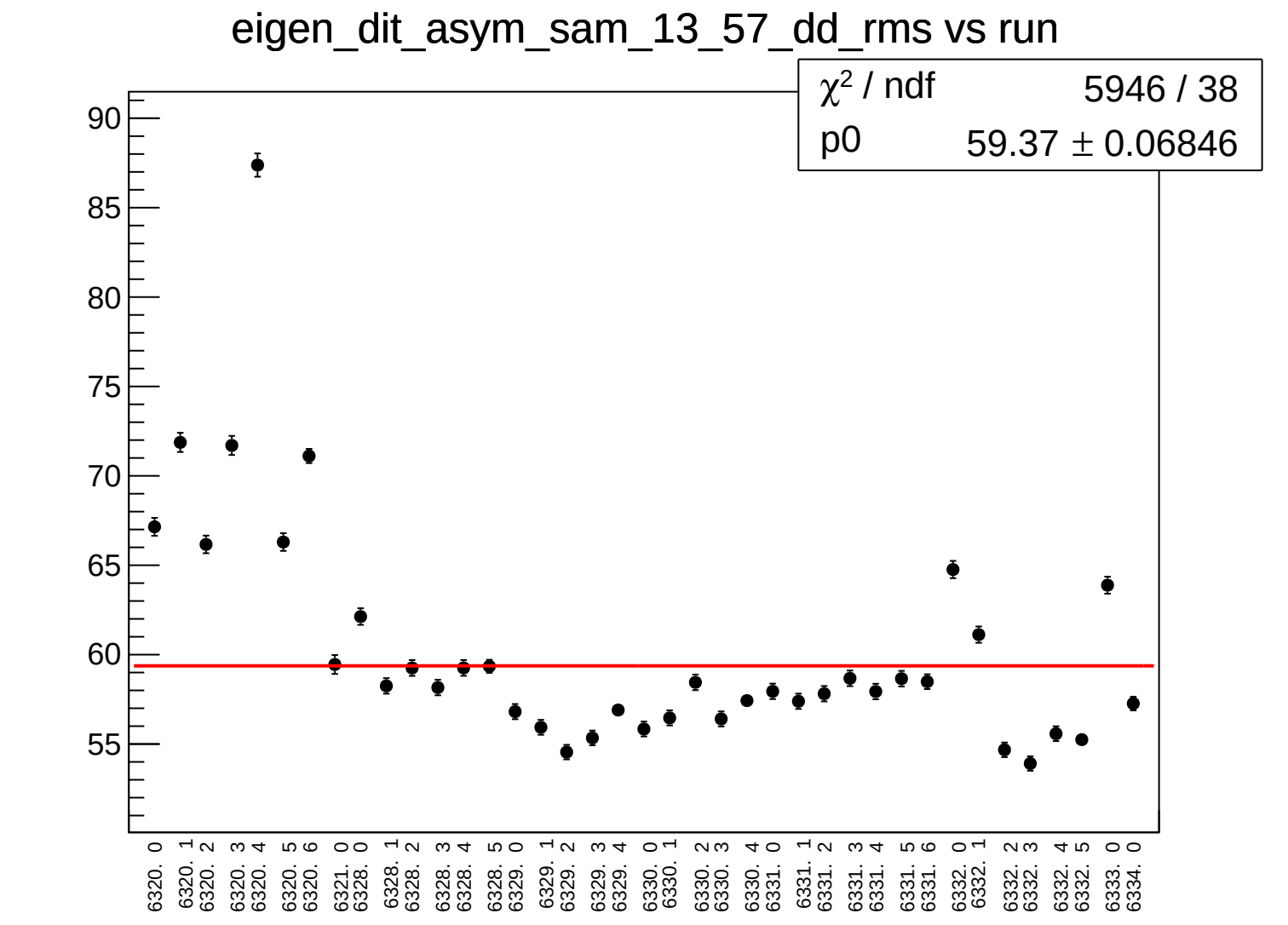
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 47.67 / 38
p0 −83.35 ± 96.82
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −189.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0236
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_sam_13_57_dd_rms vs run
χ² / ndf 5946 / 38
p0 59.37 ± 0.06846
90
85
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6328. 1
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6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
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6331. 1
6331. 2
6331. 3
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6332. 5
6333. 0
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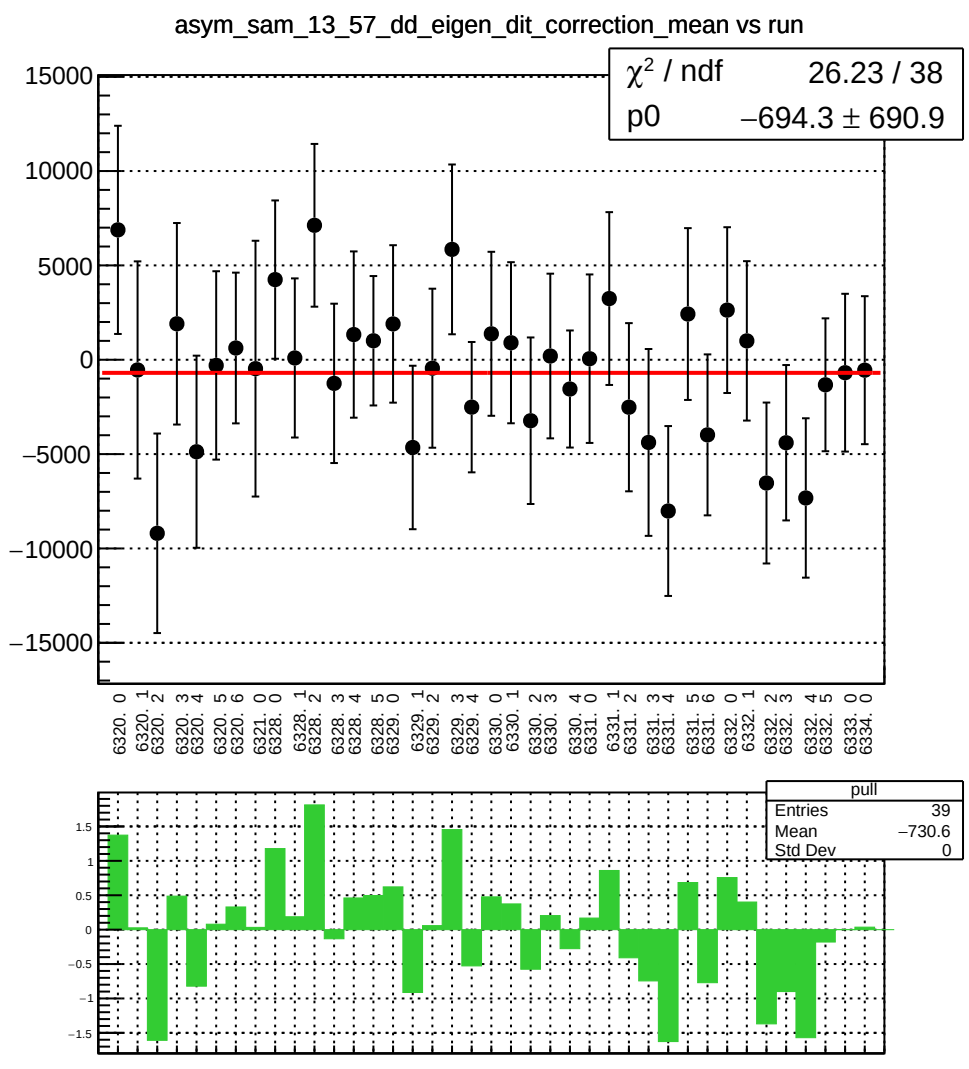
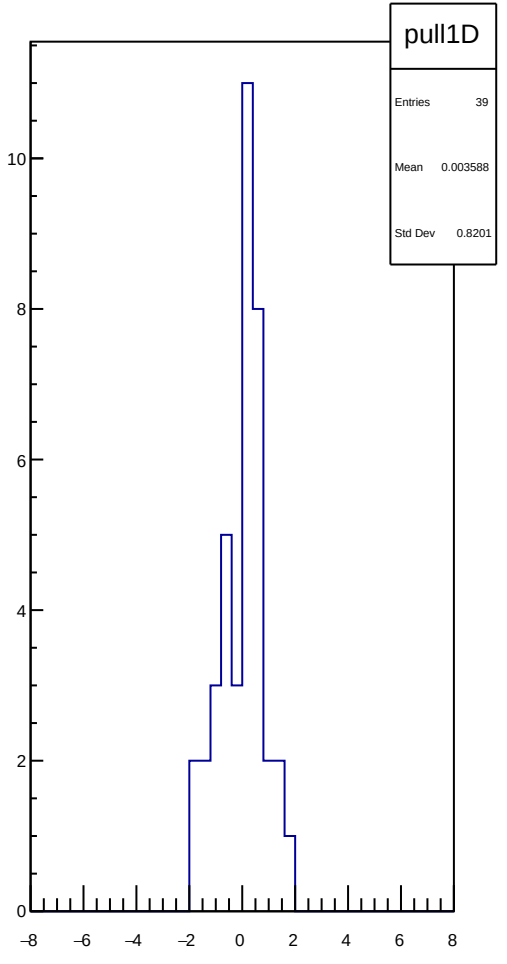
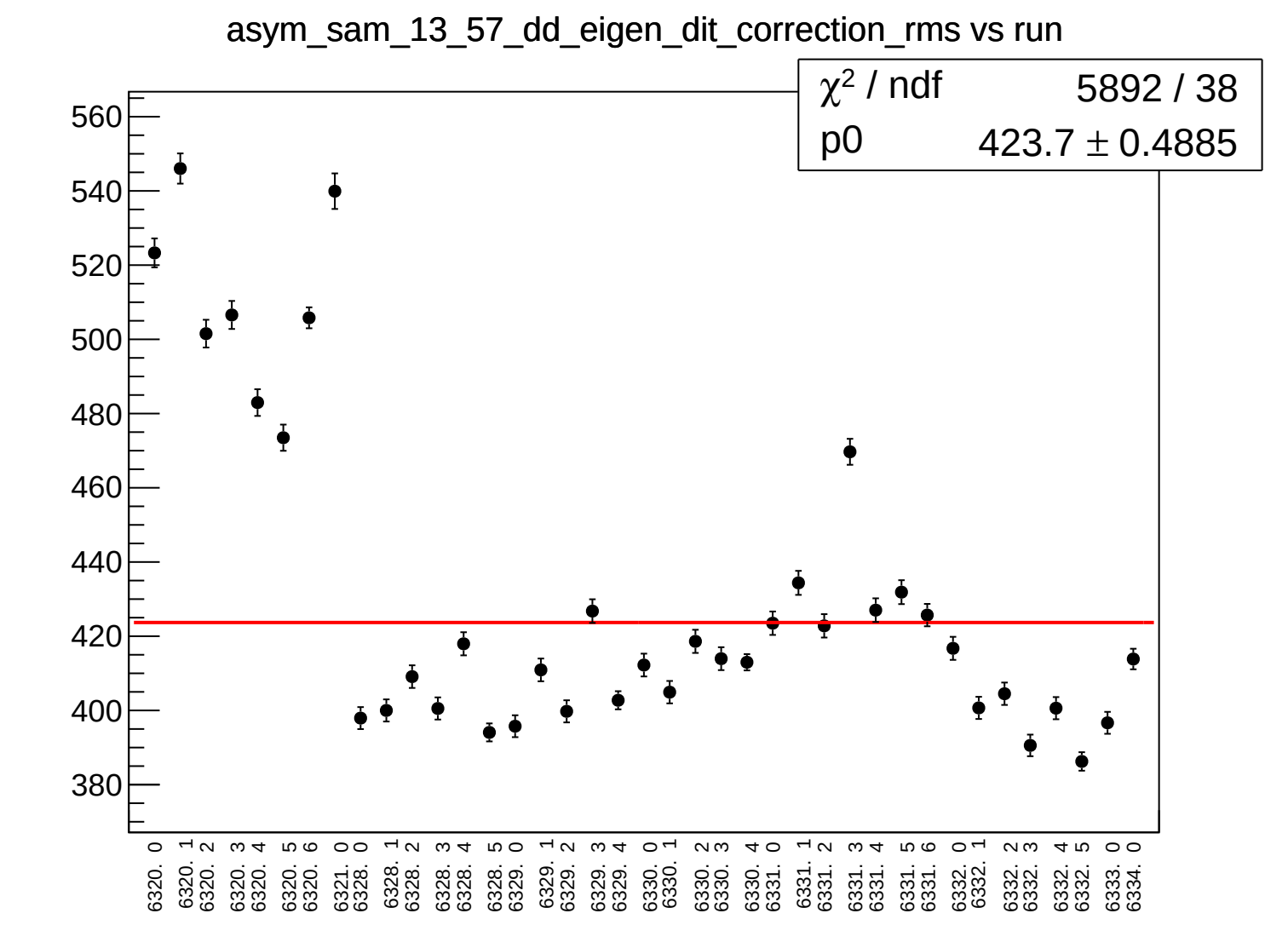
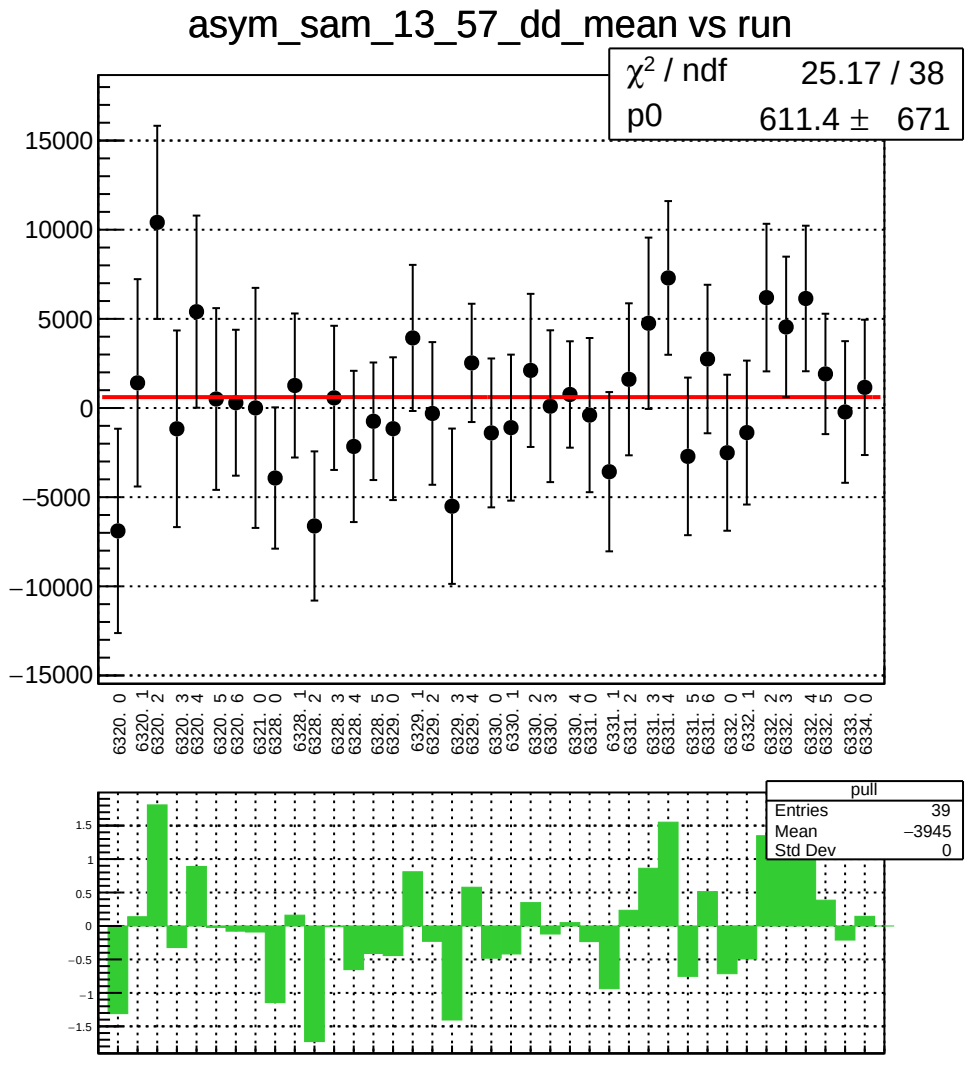
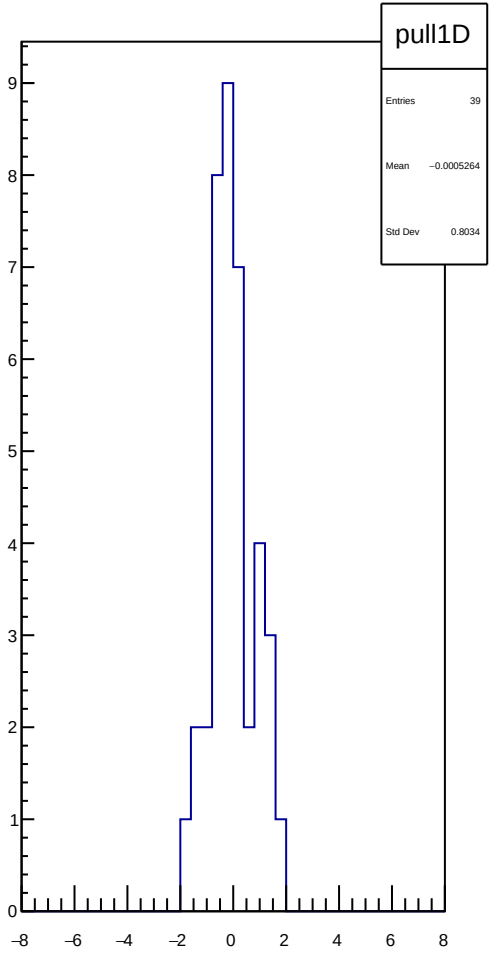
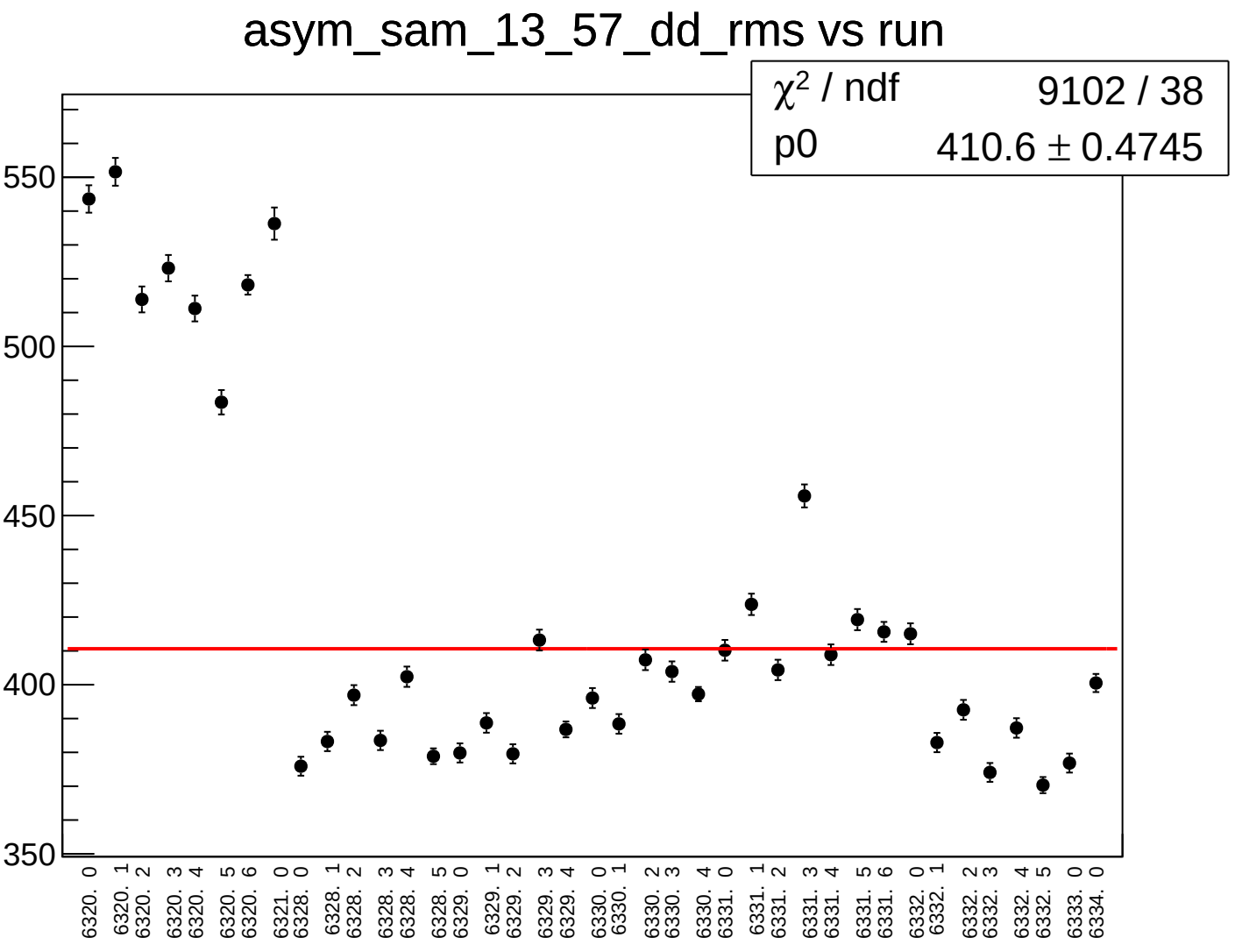

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.23 / 38
p0 −694.3 ± 690.9
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −730.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

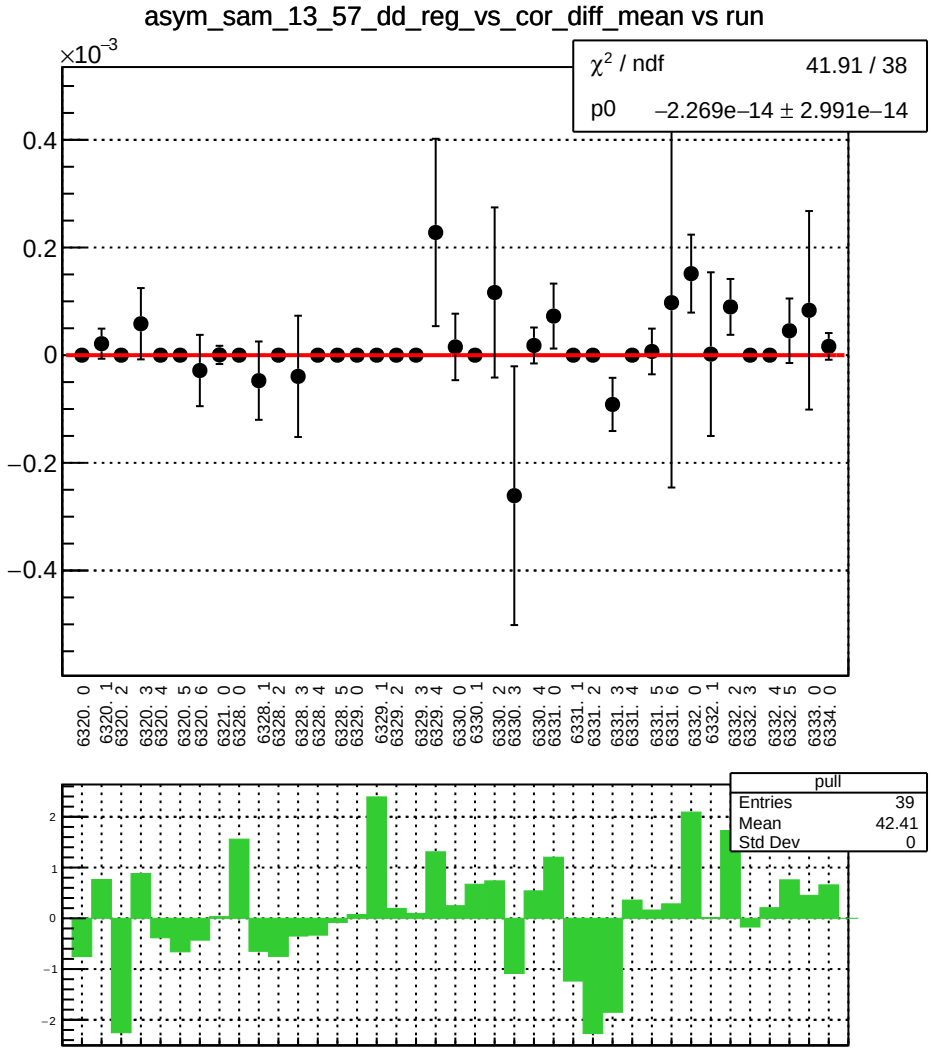

pull1D
Entries 39
Mean 0.003588
Std Dev 0.8201
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

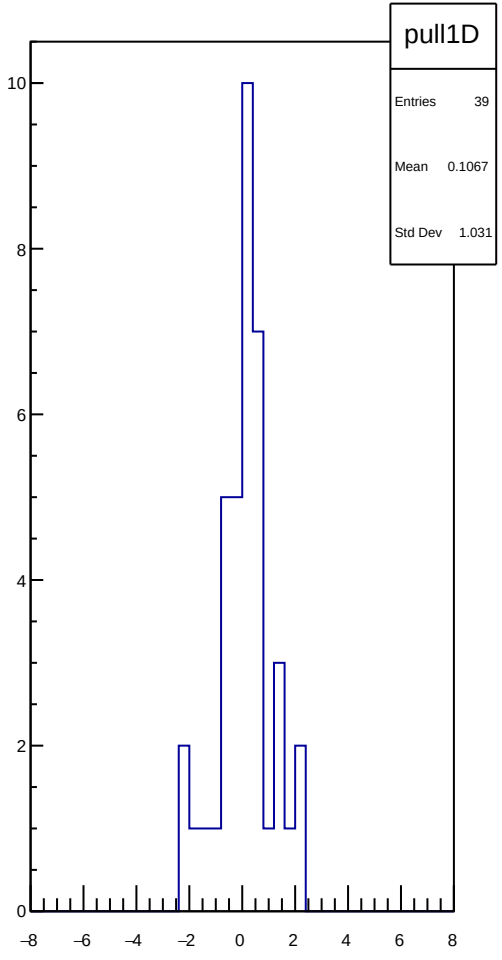

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5892 / 38
p0 423.7 ± 0.4885
560
540
520
500
480
460
440
420
400
380
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

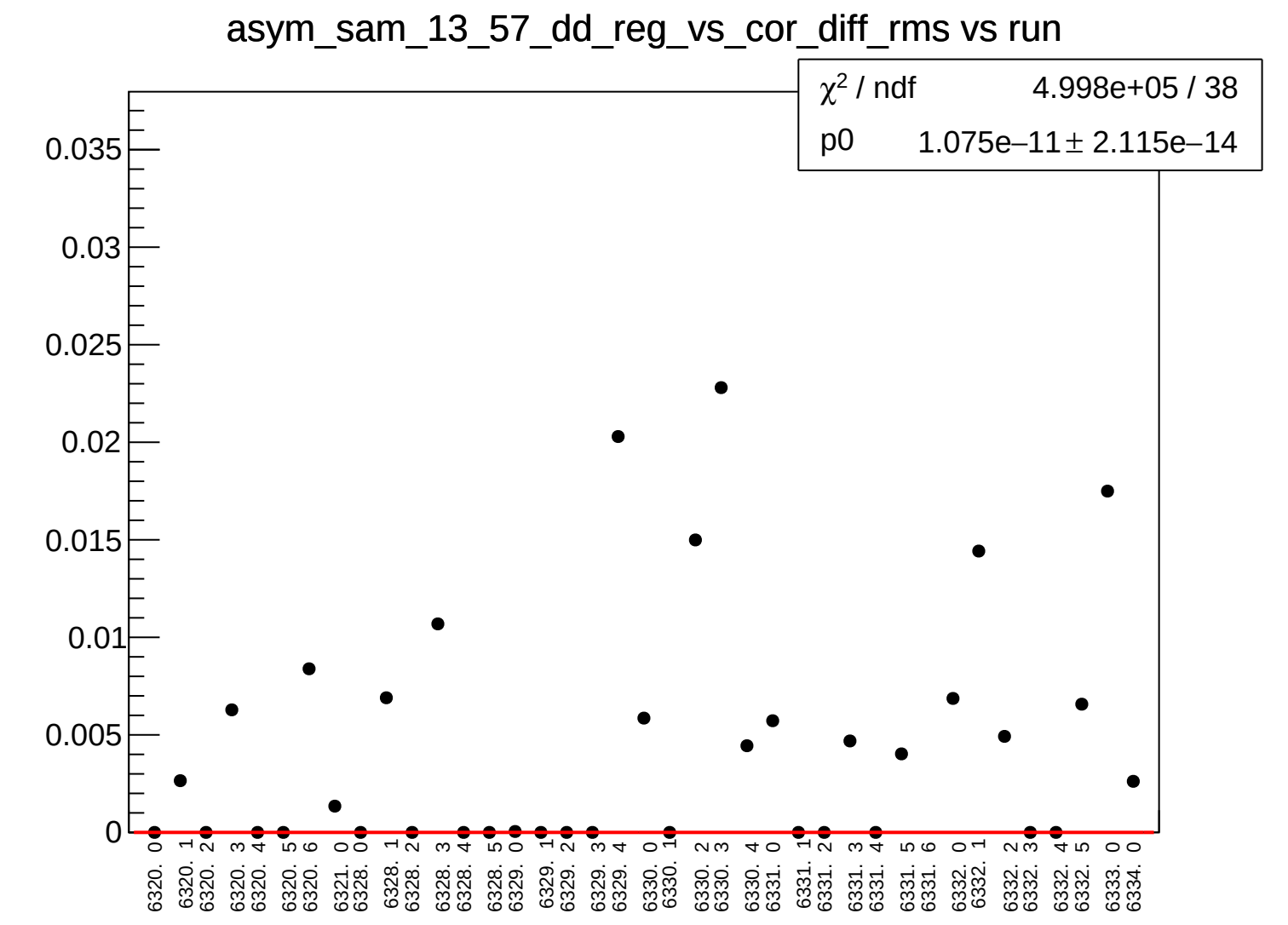

asym_sam_13_57_dd_mean vs run
χ² / ndf 25.17 / 38
p0 611.4 ± 671
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3945
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

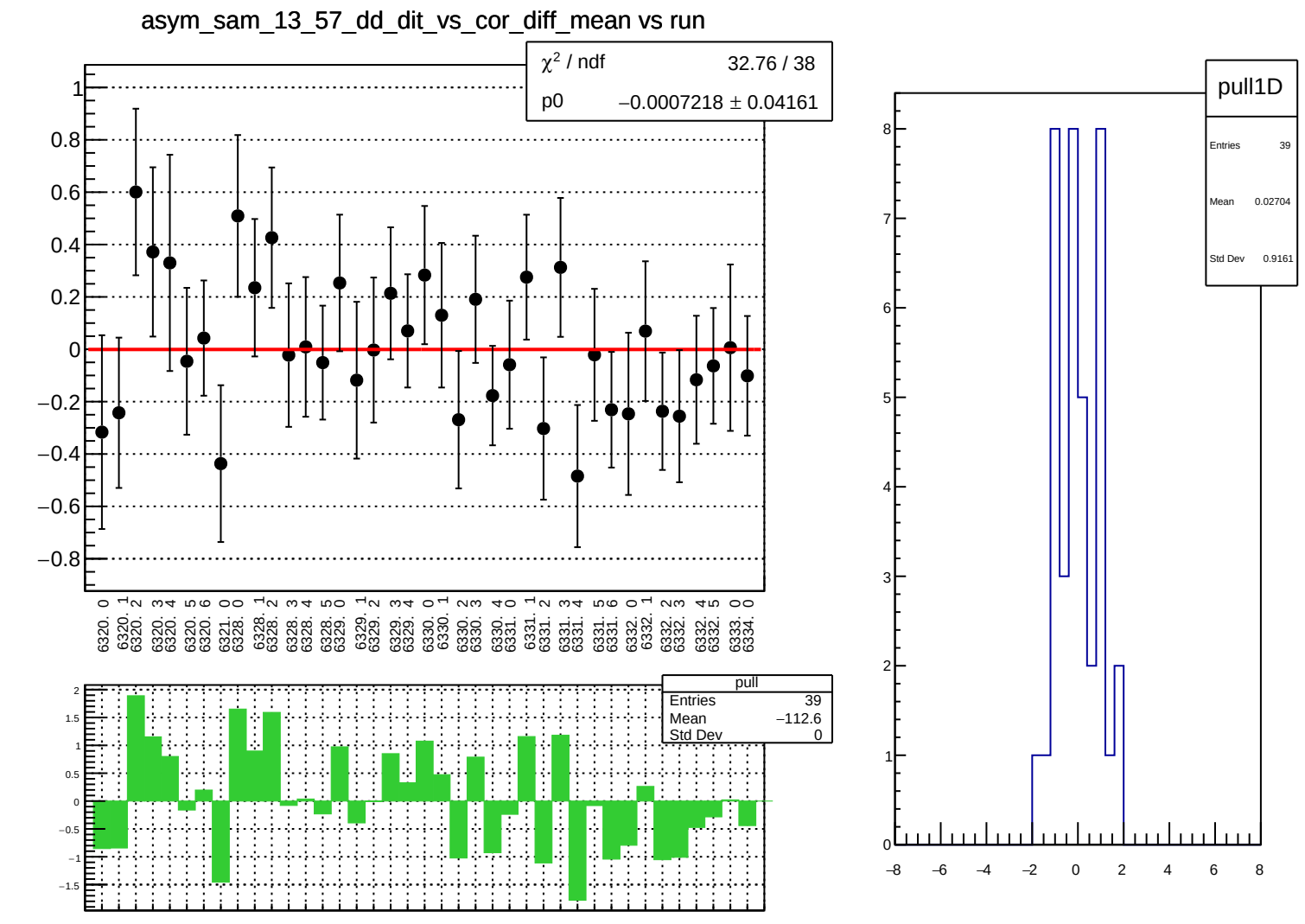

pull1D
Entries 39
Mean −0.0005264
Std Dev 0.8034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

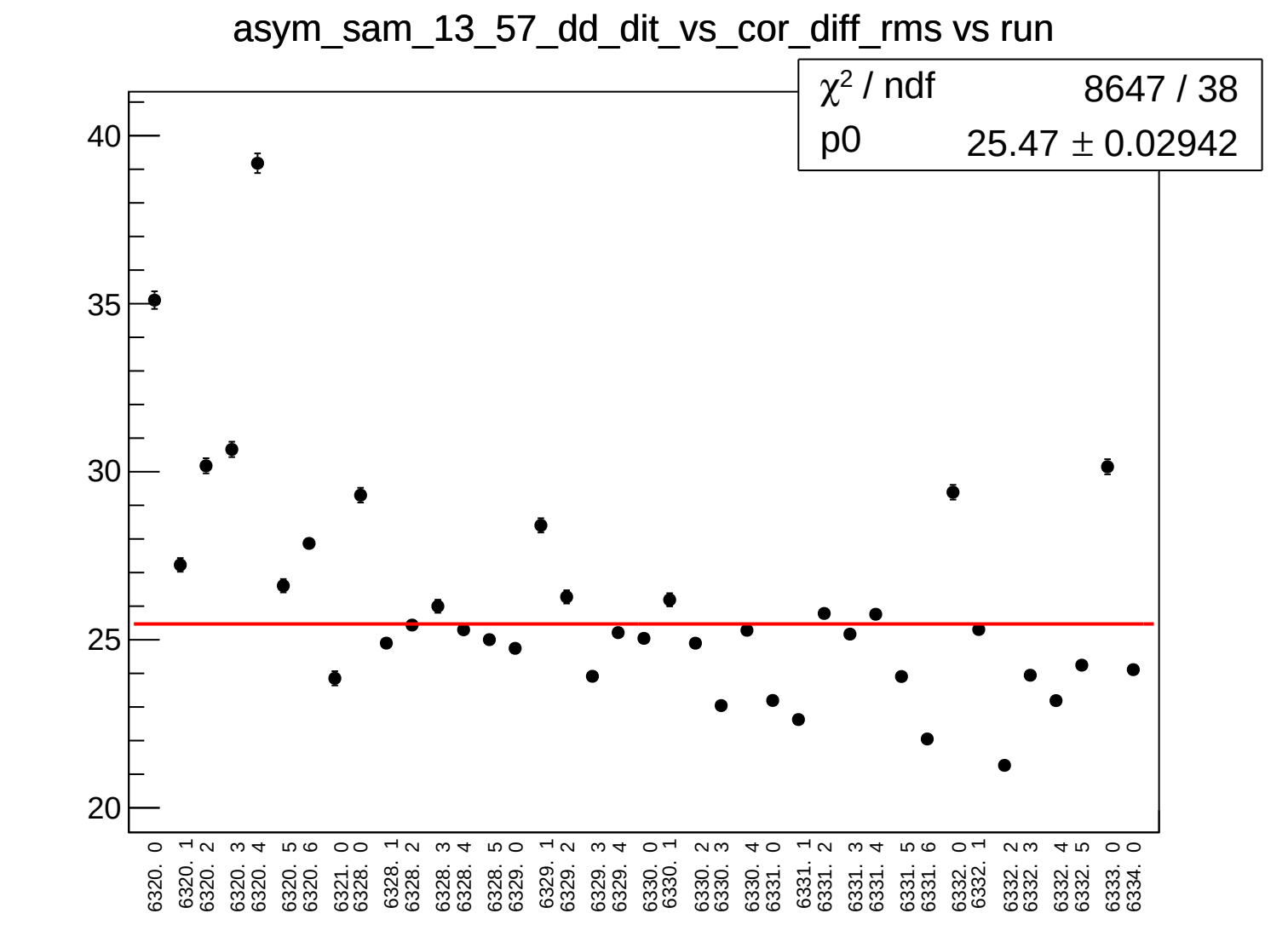

asym_sam_13_57_dd_rms vs run
χ² / ndf 9102 / 38
p0 410.6 ± 0.4745
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

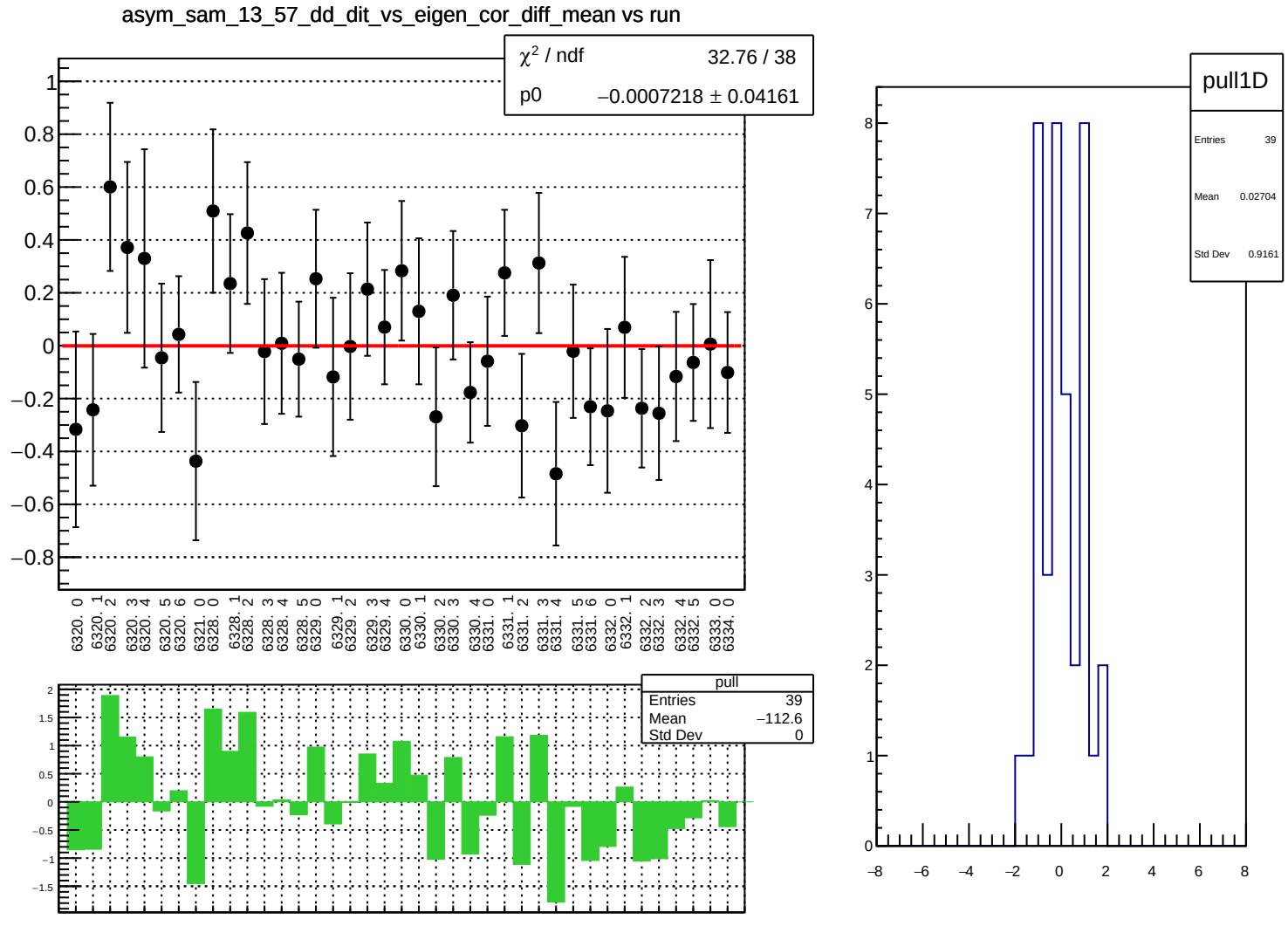

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 41.91 / 38
p0 −2.269e−14 ± 2.991e−14
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.41
Std Dev 0
2
1
0
−1
−2

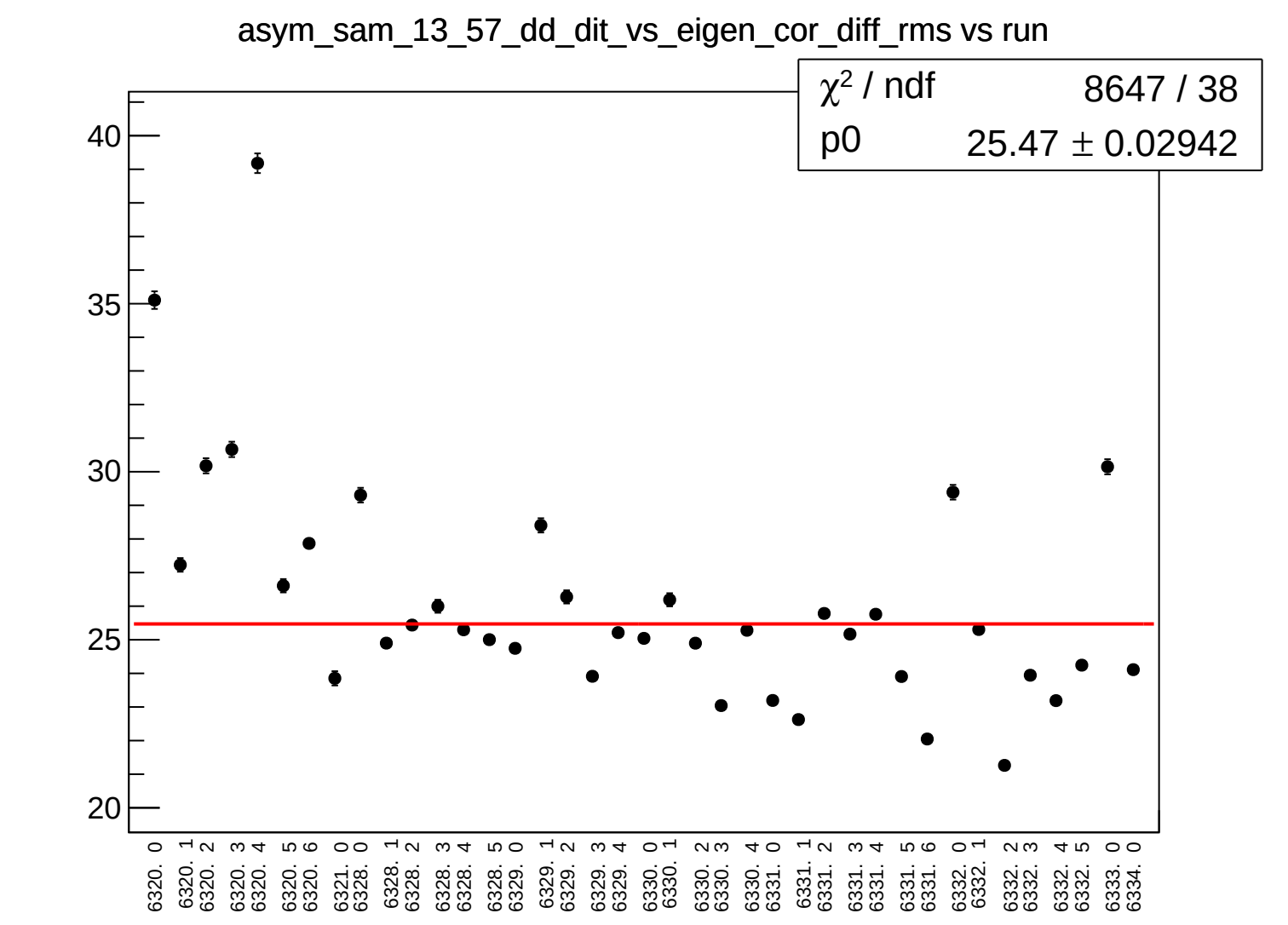

pull1D
Entries 39
Mean 0.1067
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

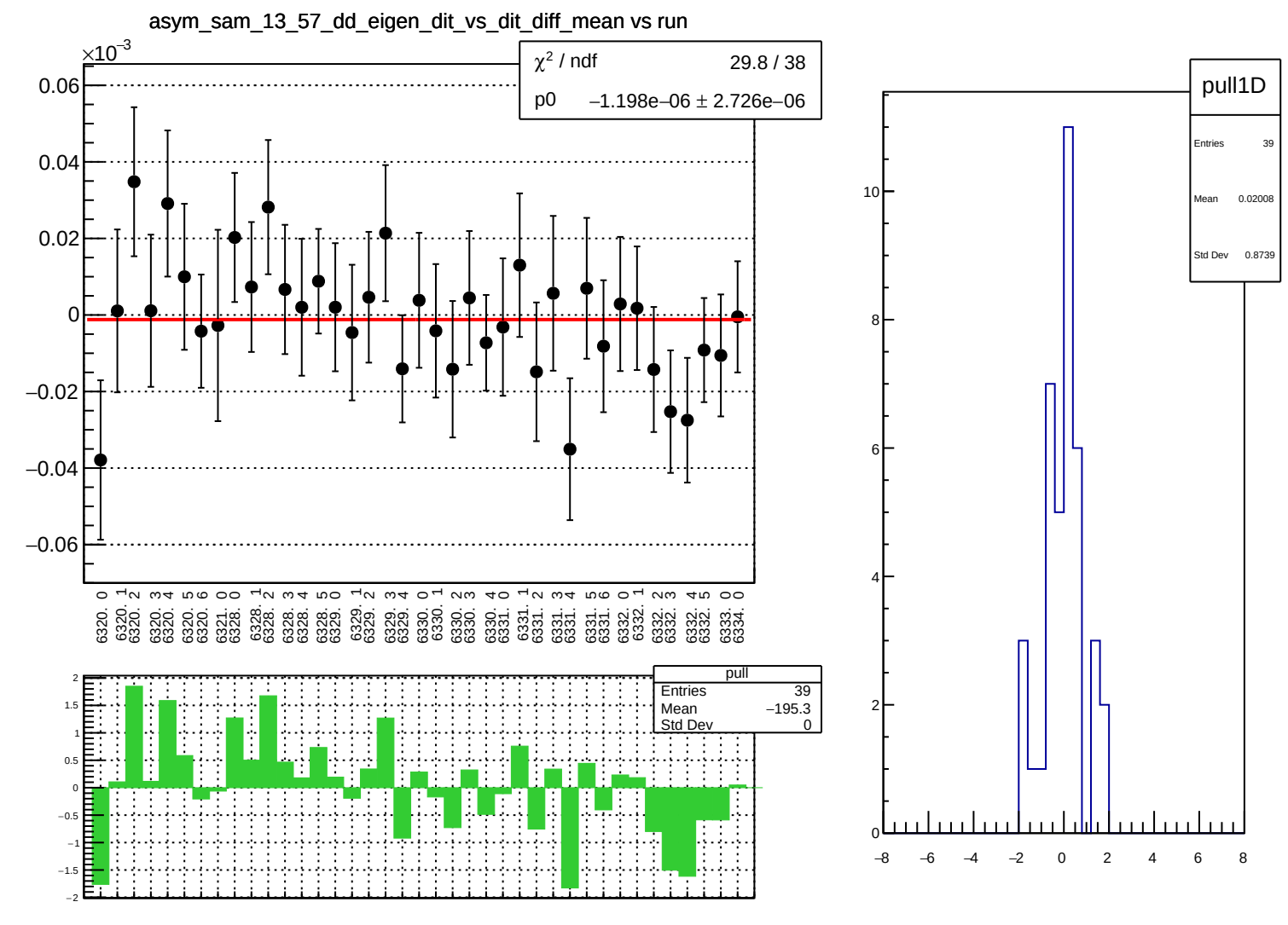

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.998e+05 / 38
p0 1.075e−11 ± 2.115e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

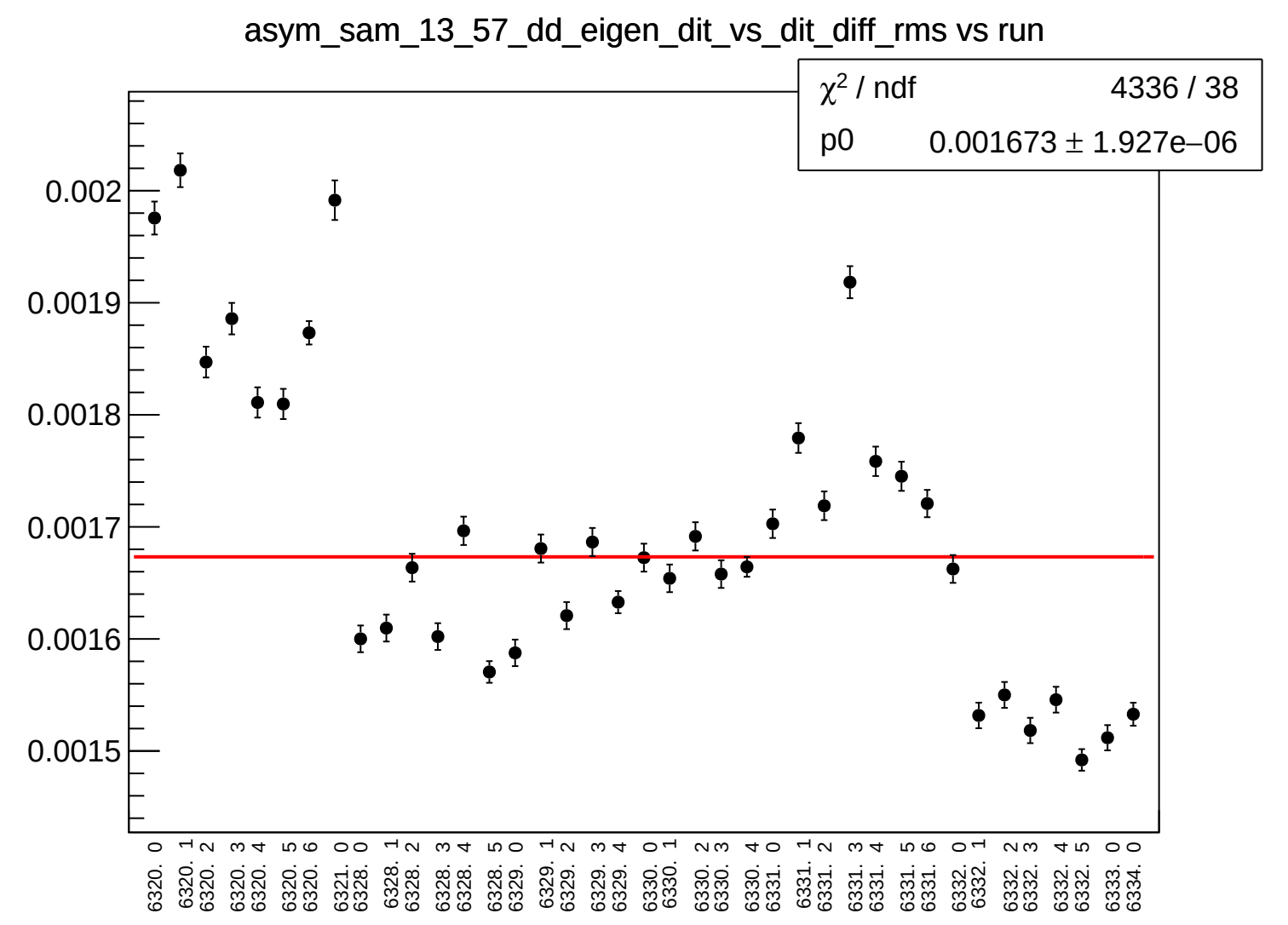

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.76 / 38
p0 −0.0007218 ± 0.04161
pull
Entries 39
Mean −112.6
Std Dev 0
pull1D
Entries 39
Mean 0.02704
Std Dev 0.9161

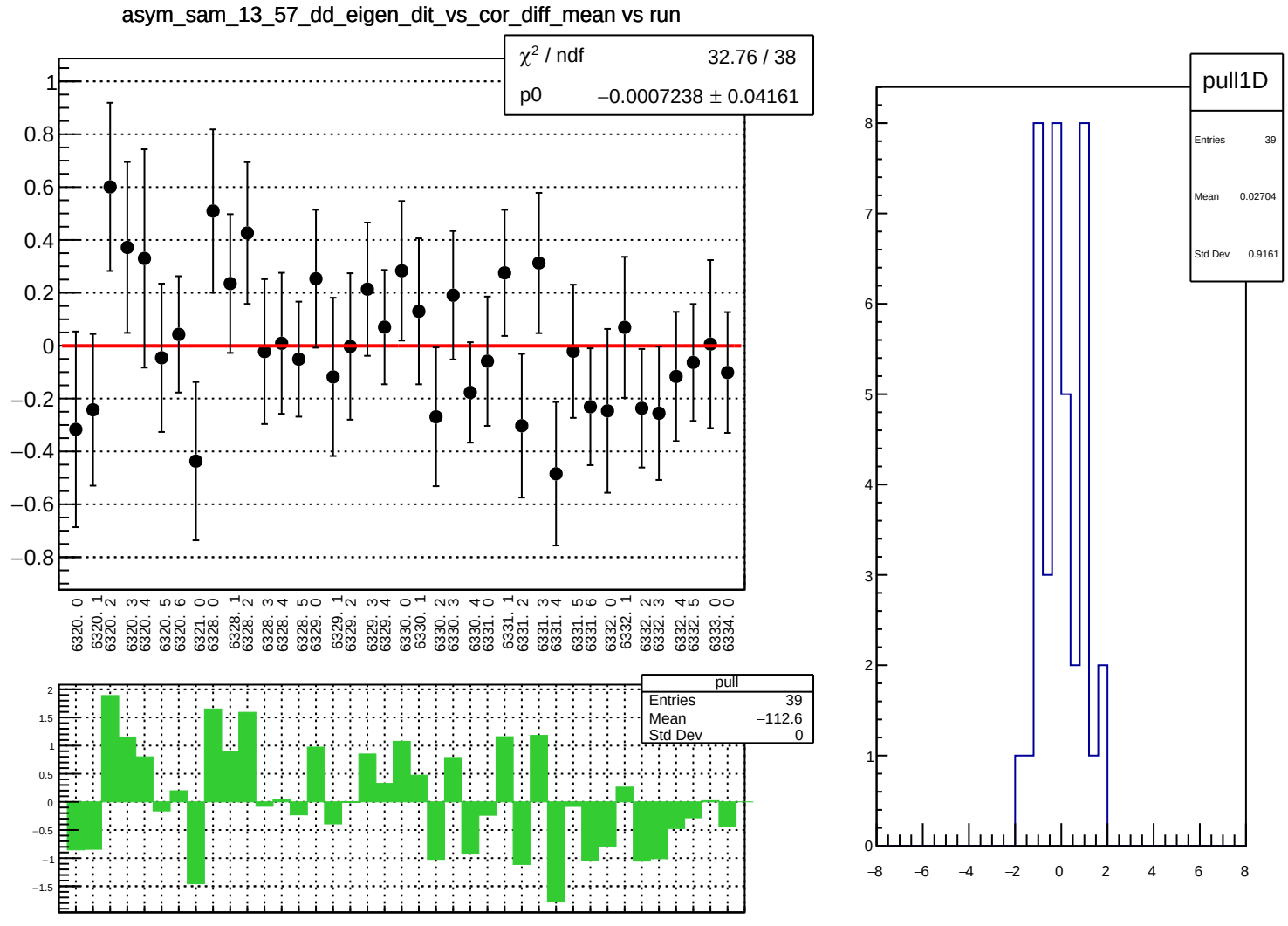

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8647 / 38
p0 25.47 ± 0.02942
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

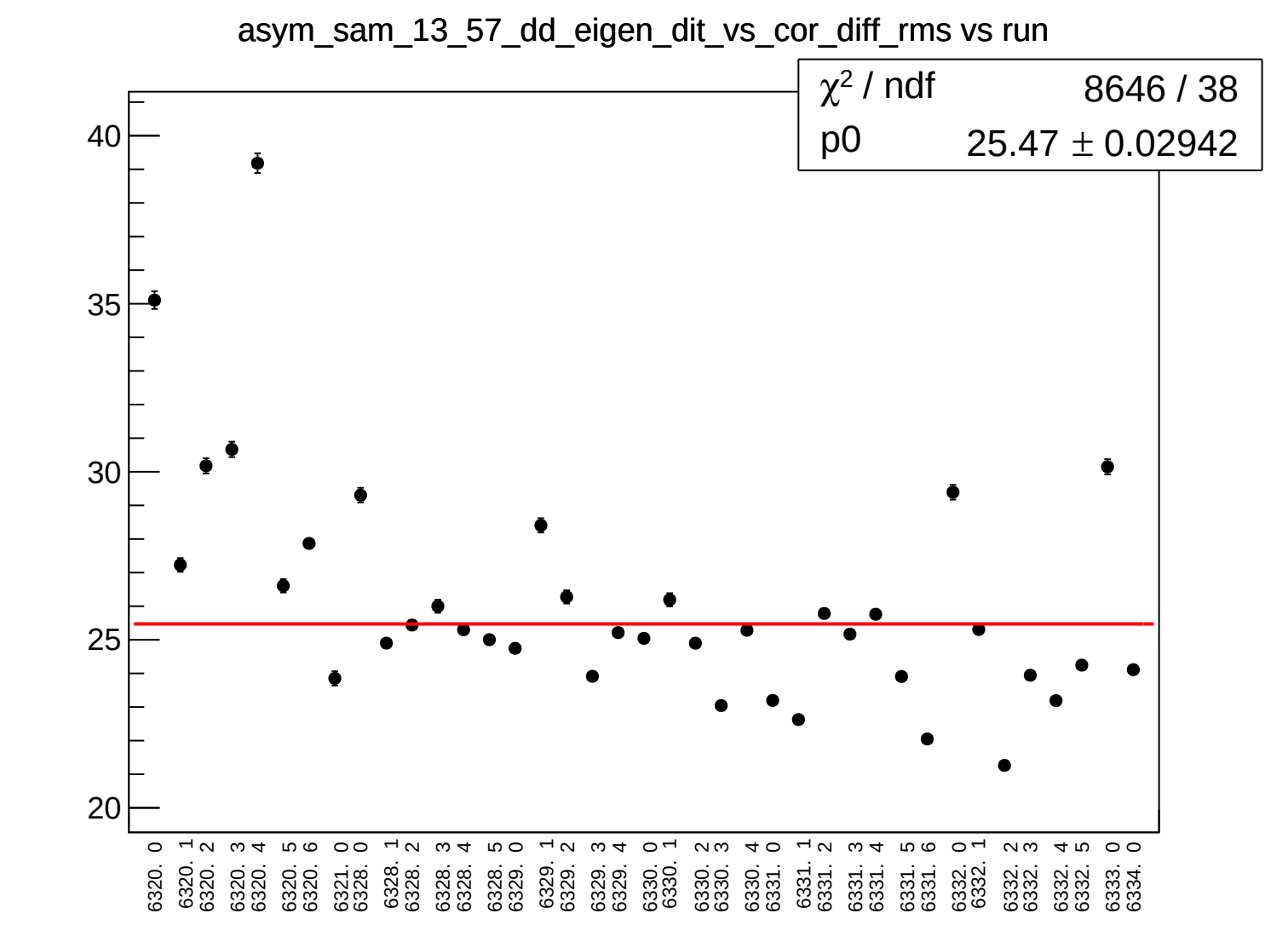

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.76 / 38
p0 −0.0007218 ± 0.04161
pull
Entries 39
Mean −112.6
Std Dev 0
pull1D
Entries 39
Mean 0.02704
Std Dev 0.9161

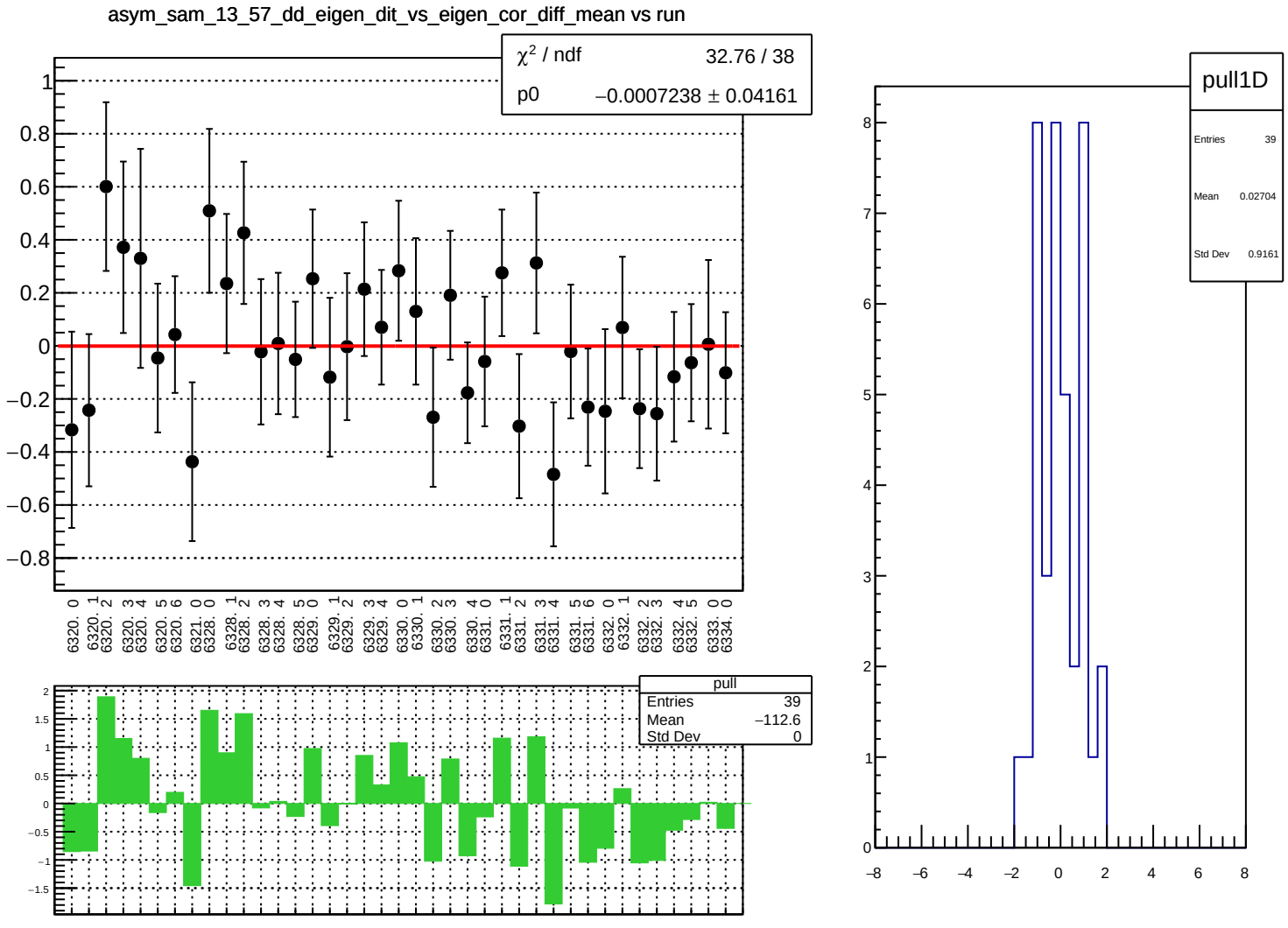

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8647 / 38
p0 25.47 ± 0.02942
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

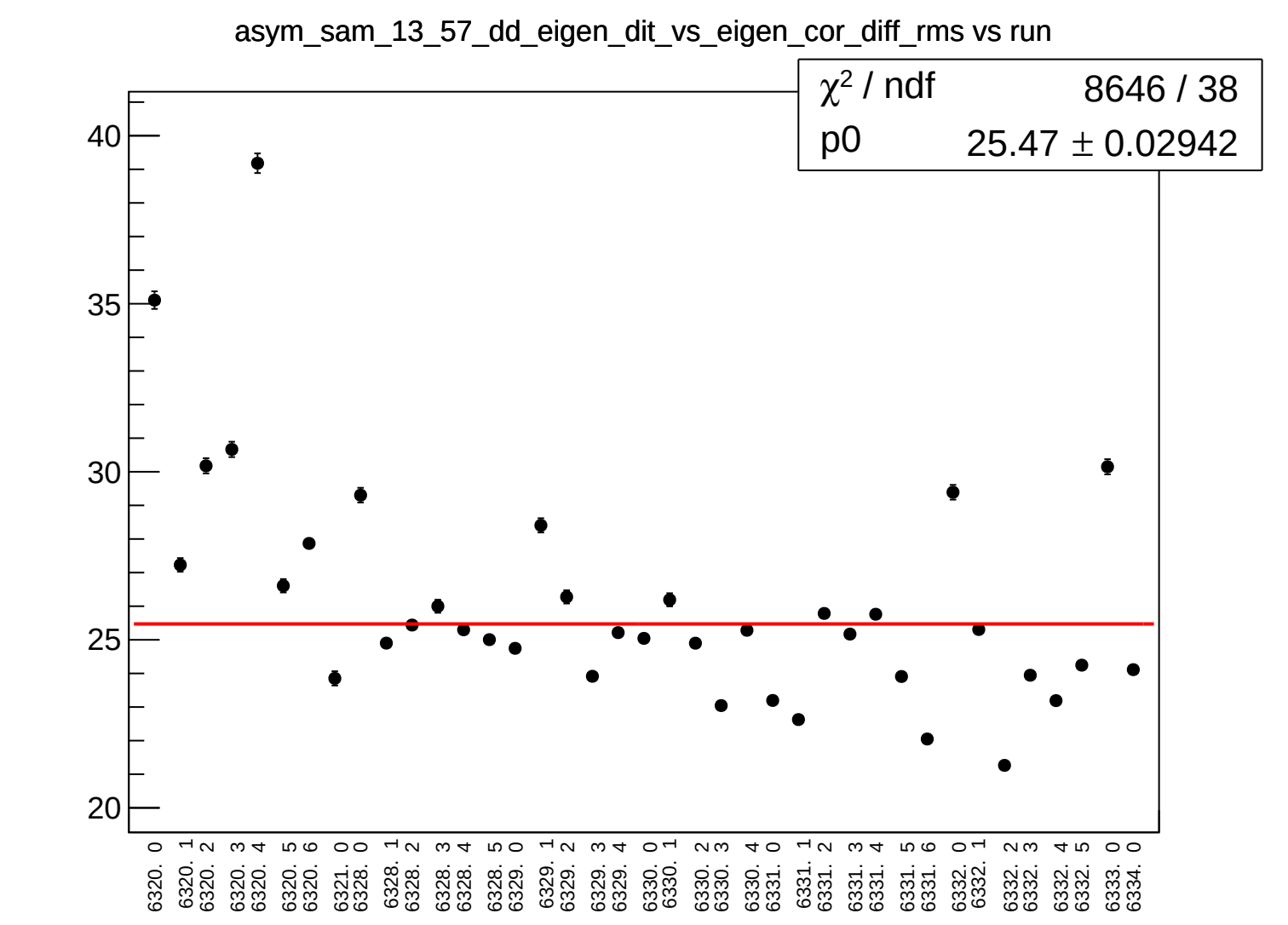

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 29.8 / 38
p0 −1.198e−06 ± 2.726e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −195.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02008
Std Dev 0.8739
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

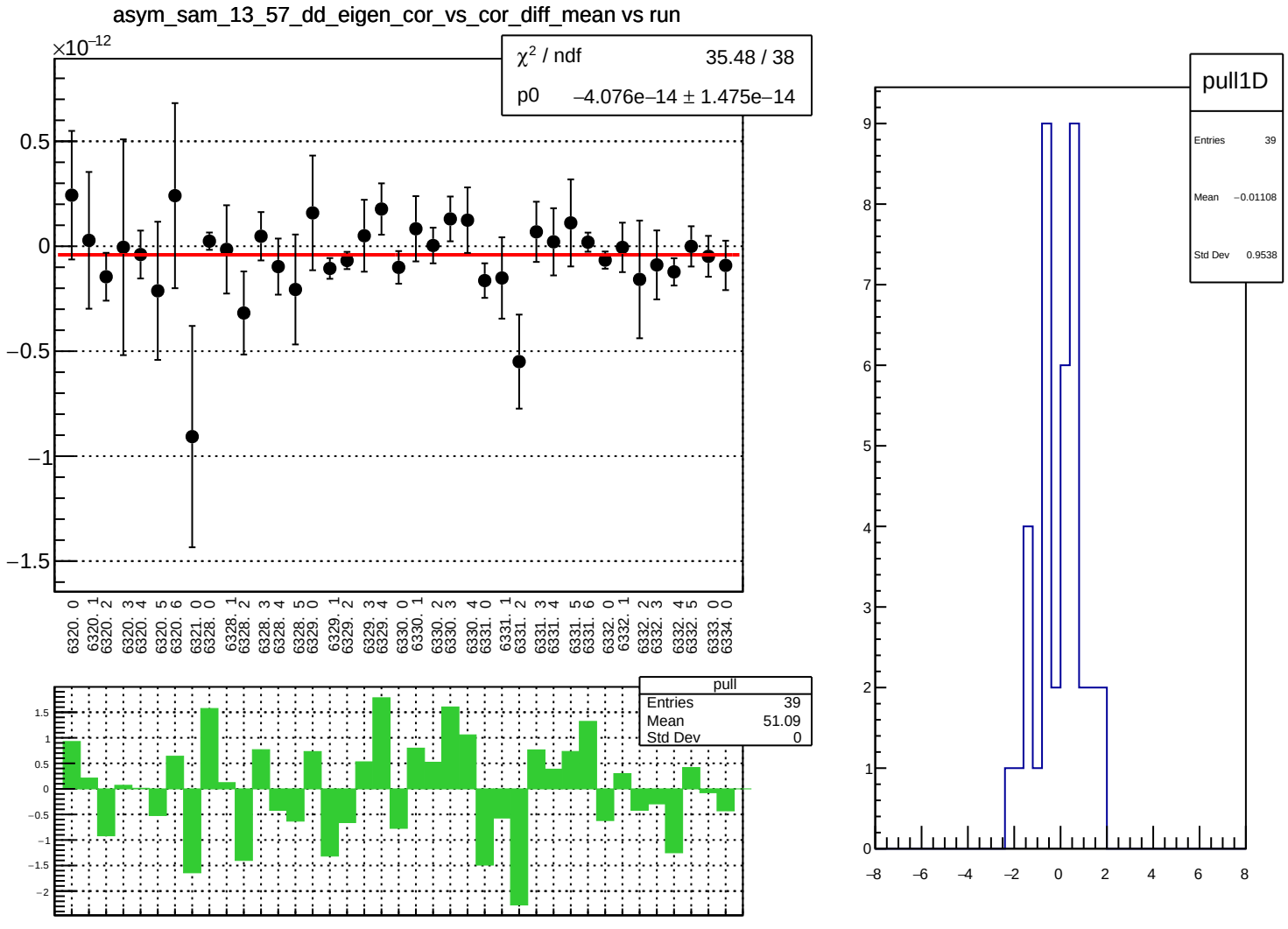

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4336 / 38
p0 0.001673 ± 1.927e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

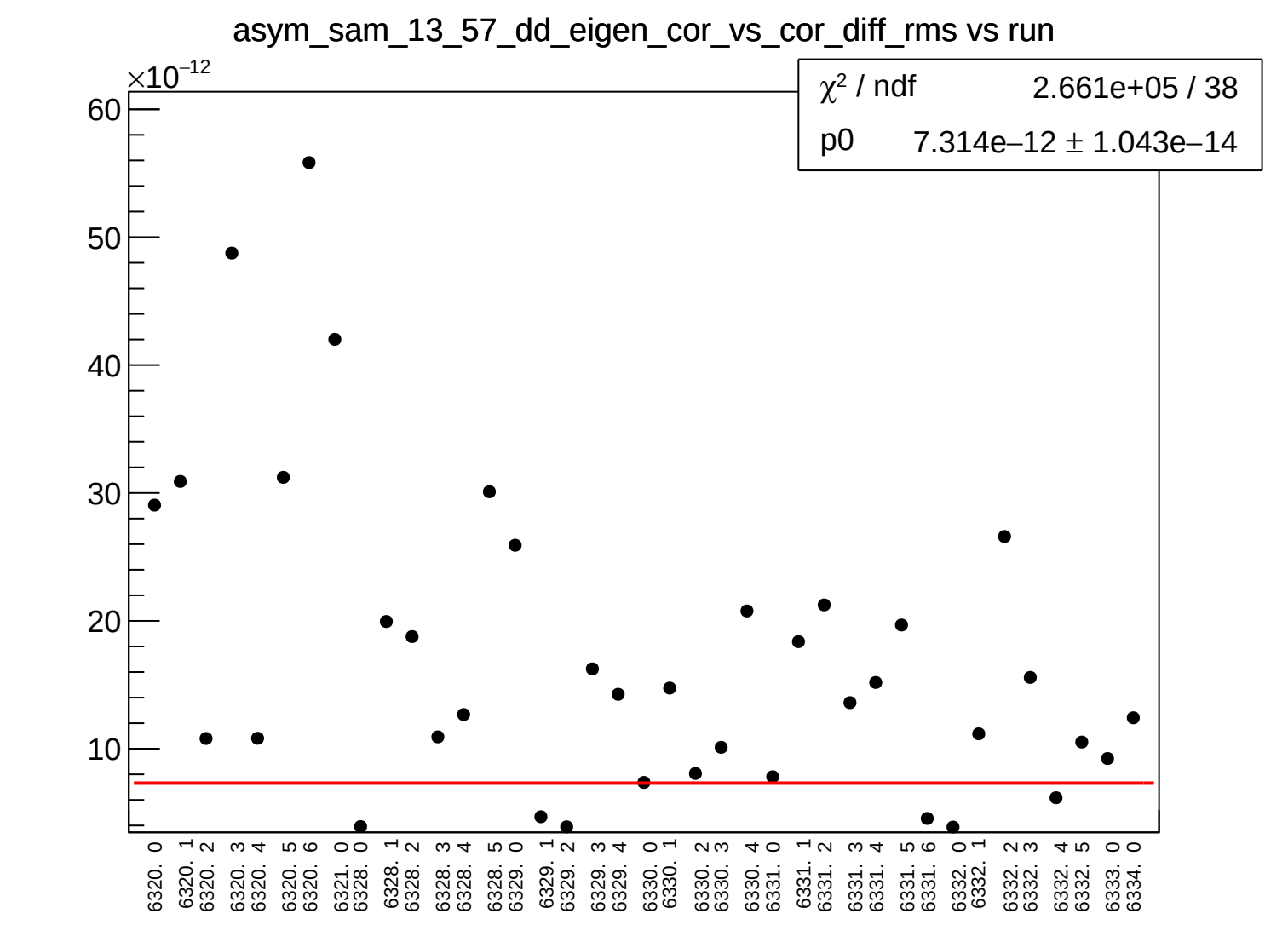

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.76 / 38
p0 −0.0007238 ± 0.04161
pull
Entries 39
Mean −112.6
Std Dev 0
pull1D
Entries 39
Mean 0.02704
Std Dev 0.9161

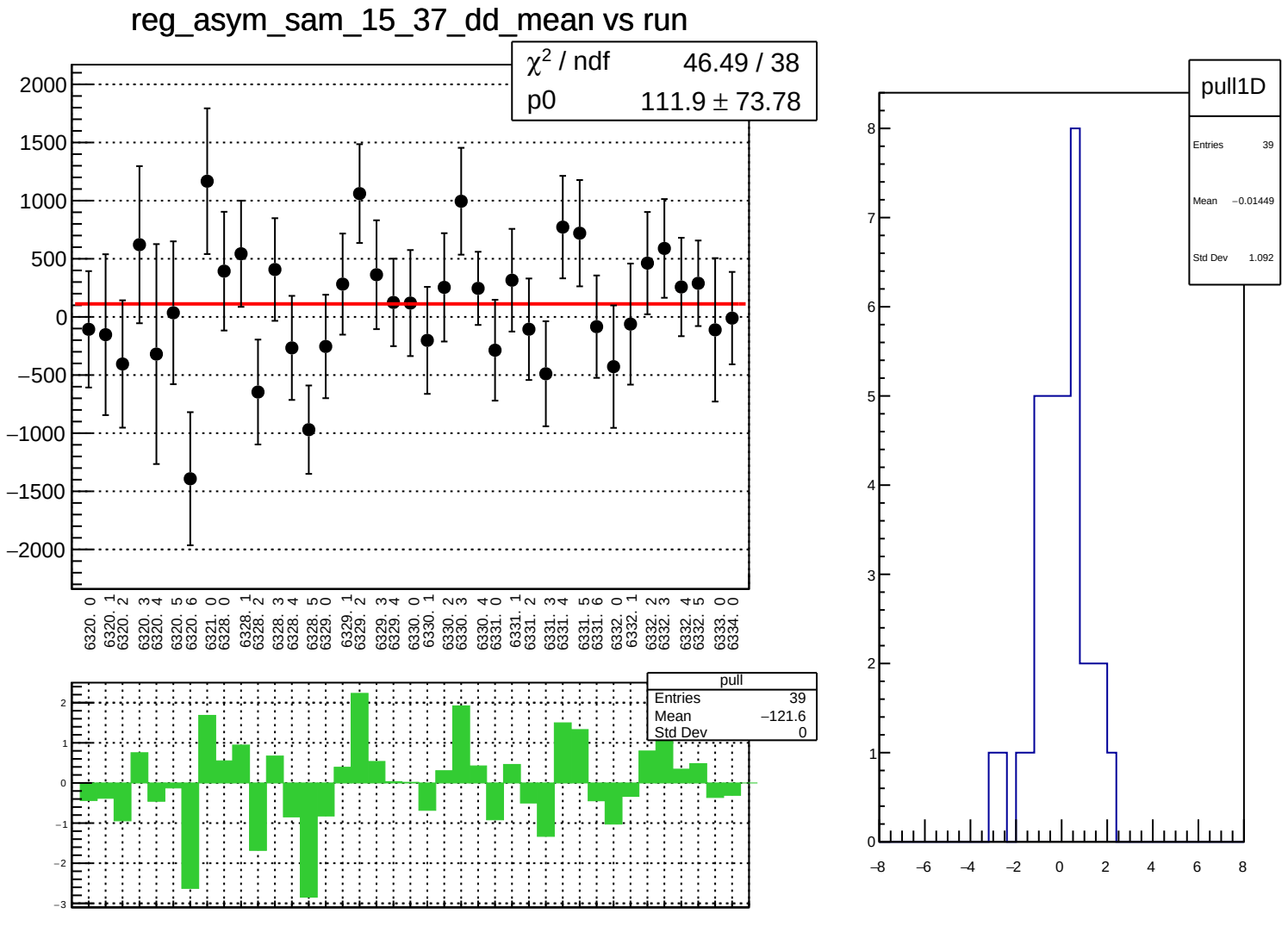

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8646 / 38
p0 25.47 ± 0.02942
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

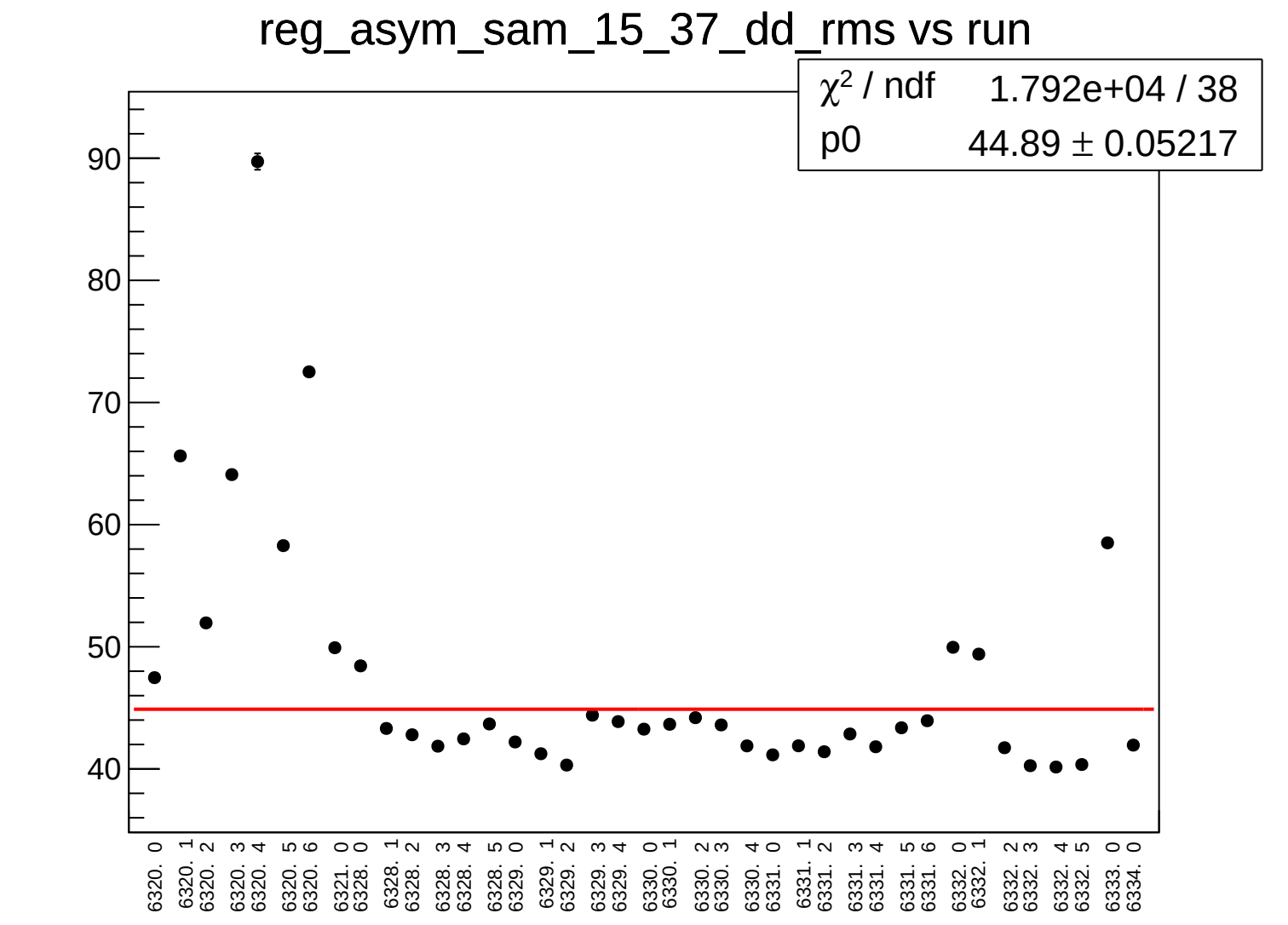

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.76 / 38
p0 −0.0007238 ± 0.04161
pull
Entries 39
Mean −112.6
Std Dev 0
pull1D
Entries 39
Mean 0.02704
Std Dev 0.9161

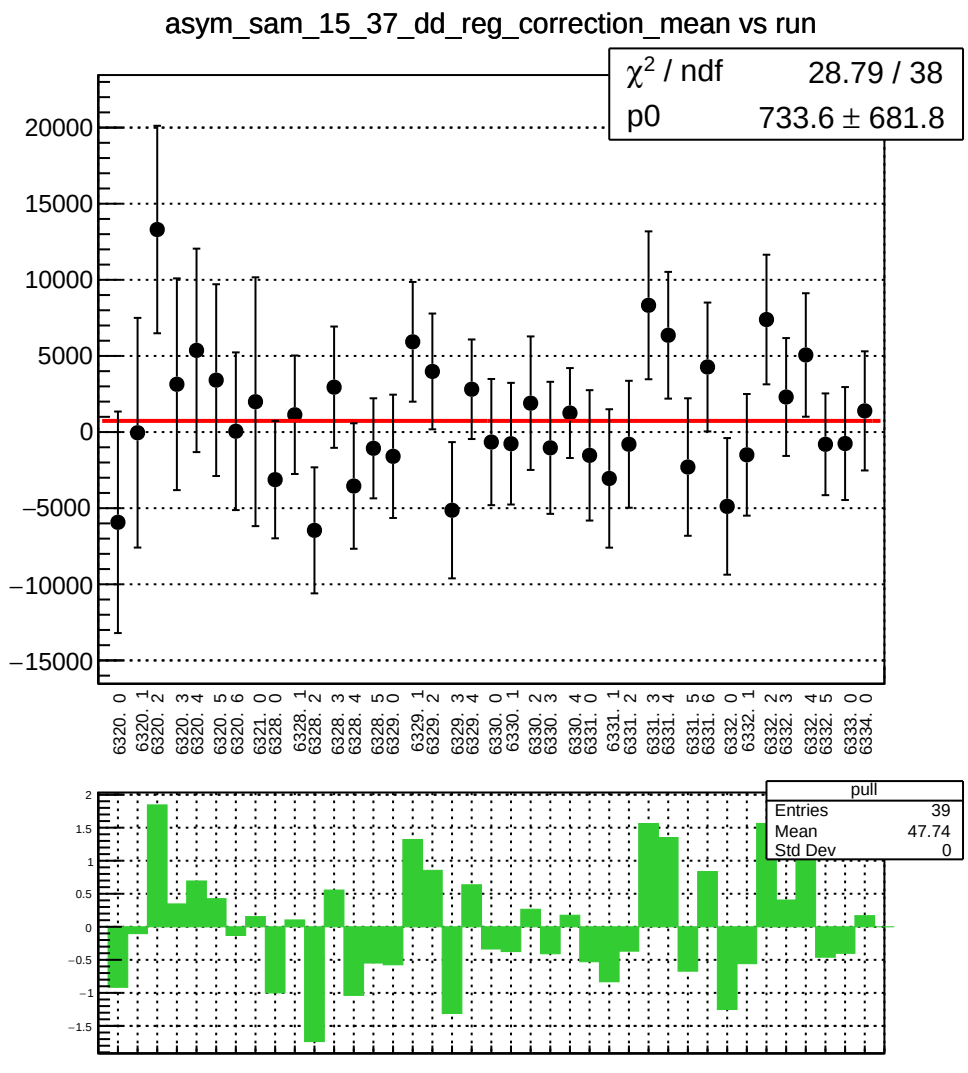

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8646 / 38
p0 25.47 ± 0.02942
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

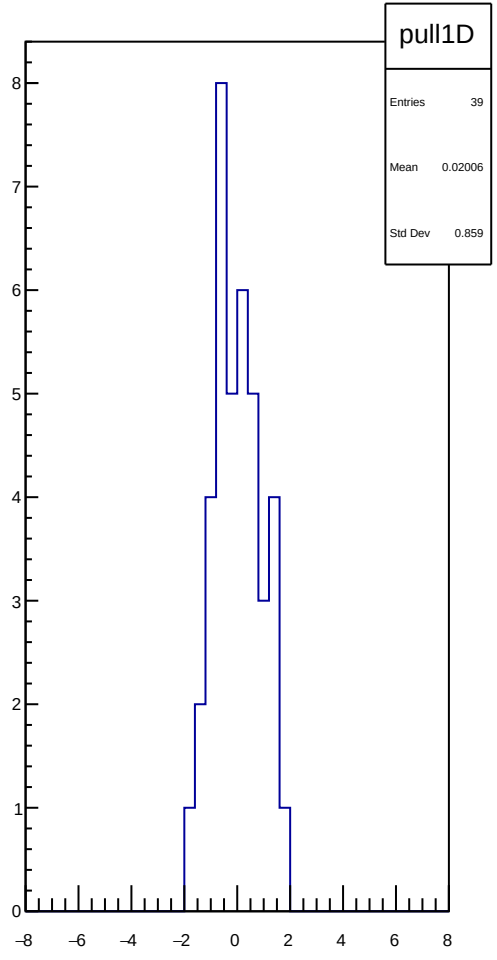

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.48 / 38
p0 −4.076e−14 ± 1.475e−14
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01108
Std Dev 0.9538
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

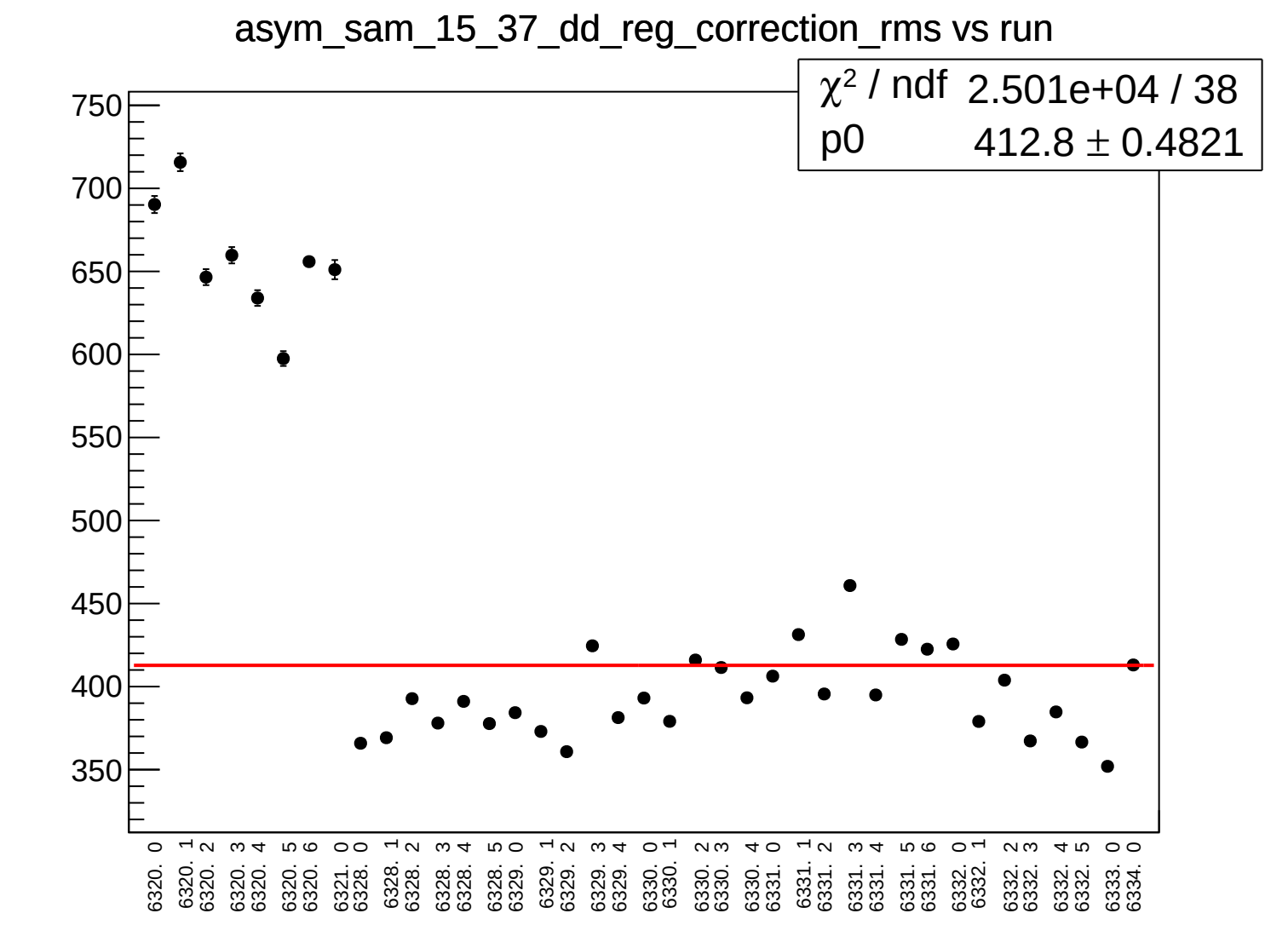

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.661e+05 / 38
p0 7.314e−12 ± 1.043e−14
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

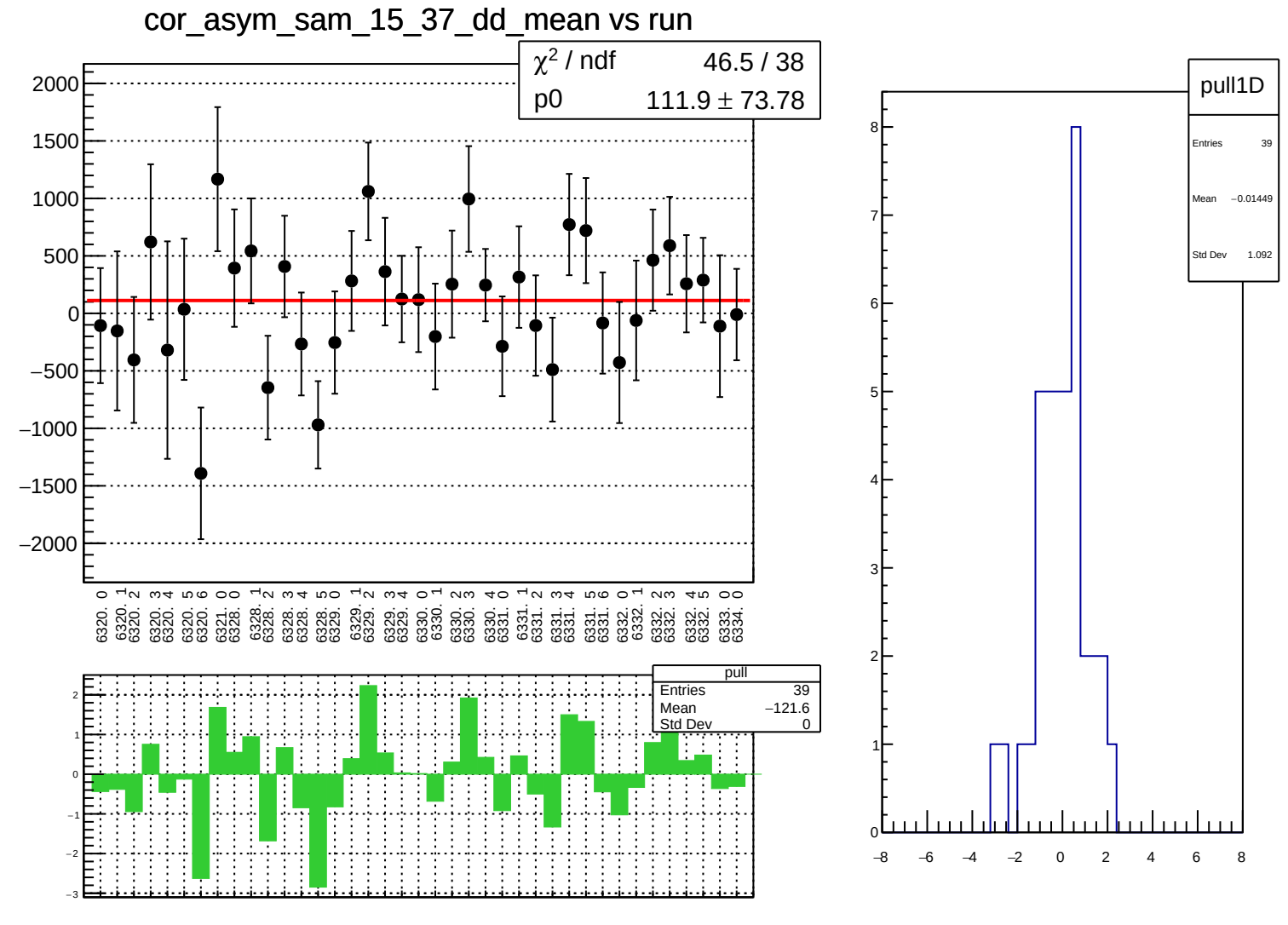

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 46.49 / 38
p0 111.9 ± 73.78
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −121.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01449
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

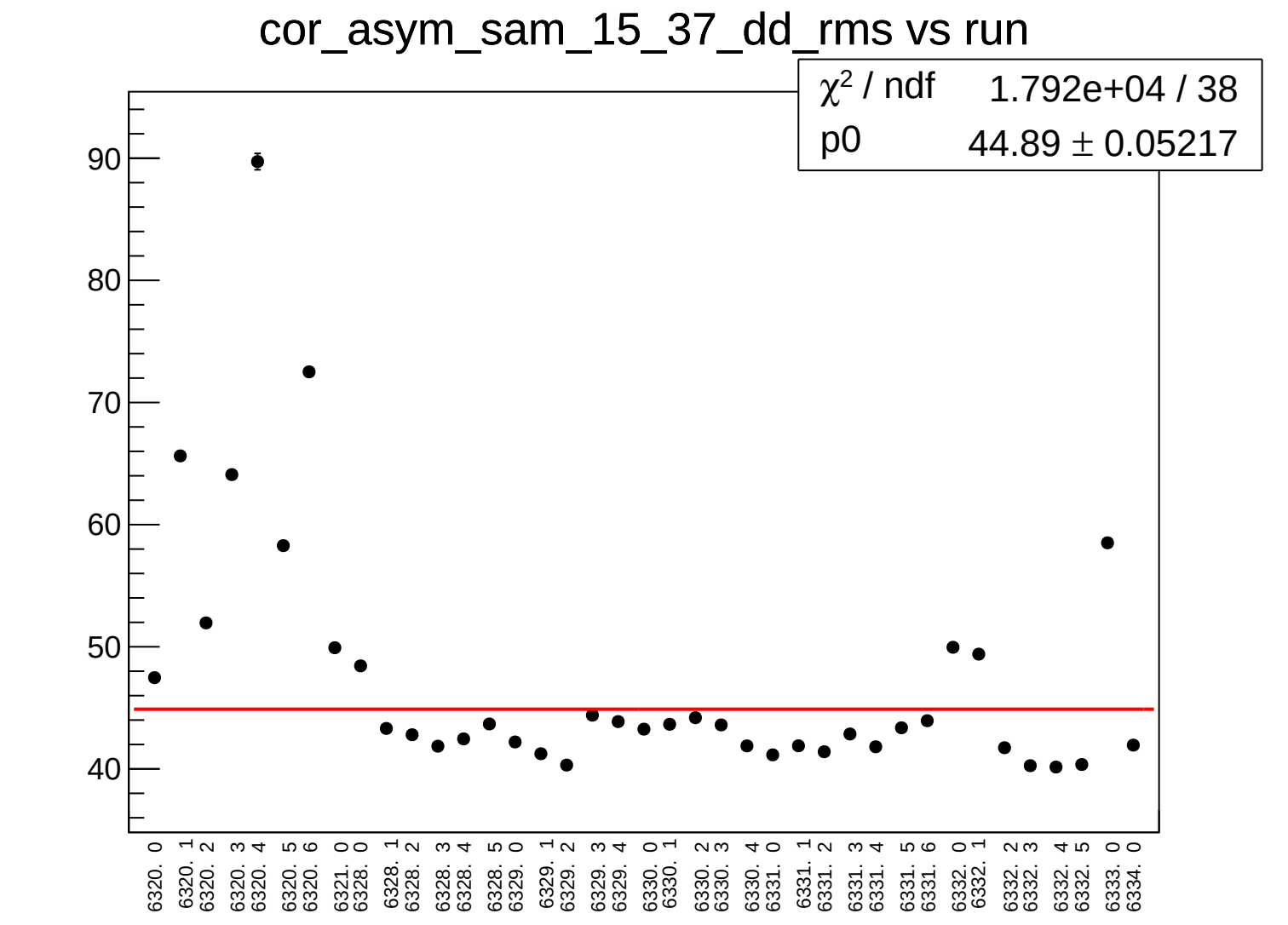

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.792e+04 / 38
p0 44.89 ± 0.05217
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

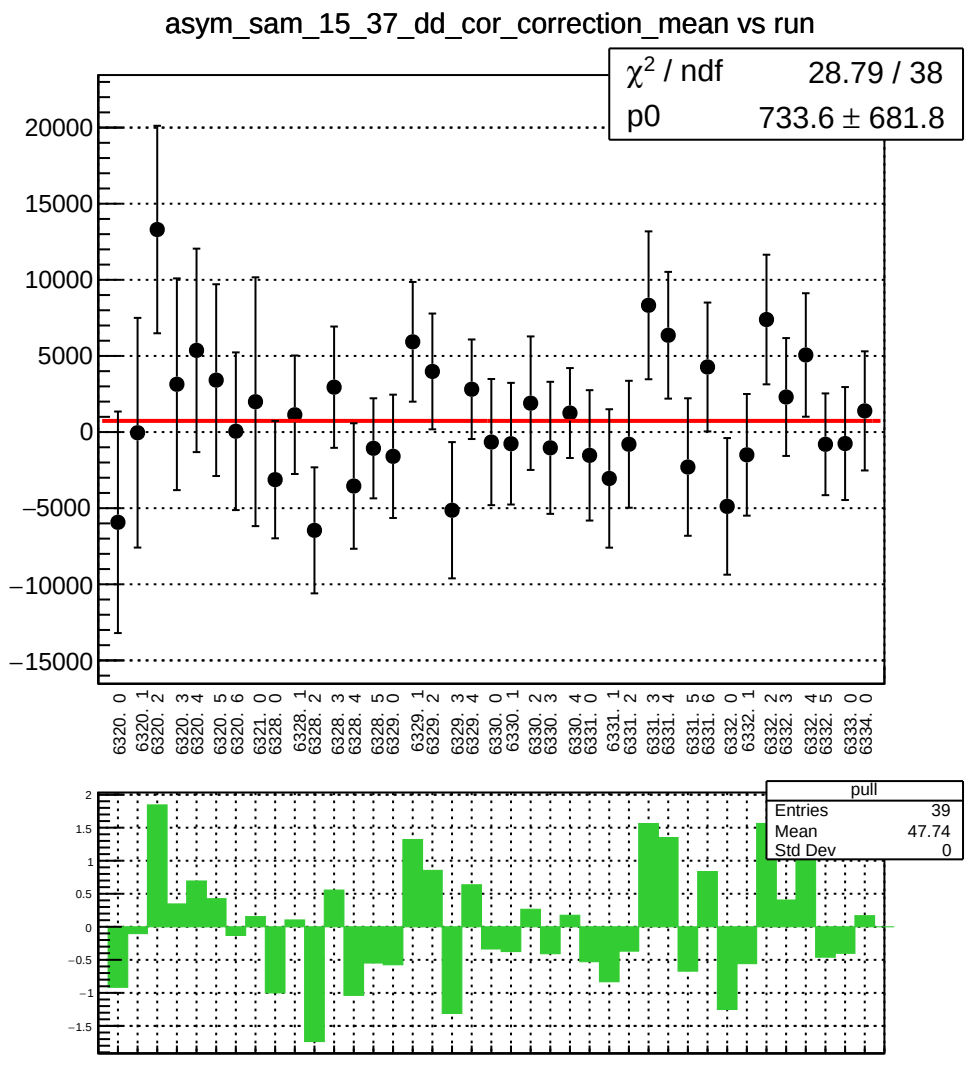

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 28.79 / 38
p0 733.6 ± 681.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

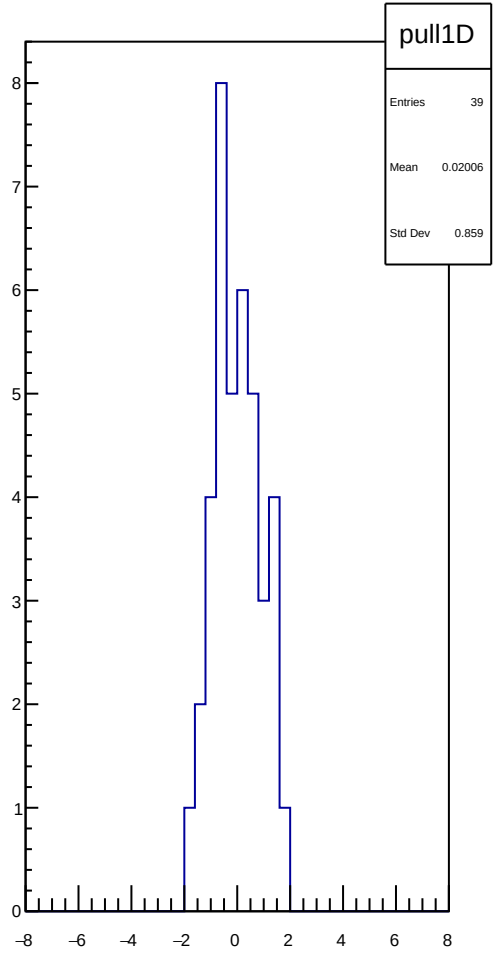

pull1D
Entries 39
Mean 0.02006
Std Dev 0.859
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

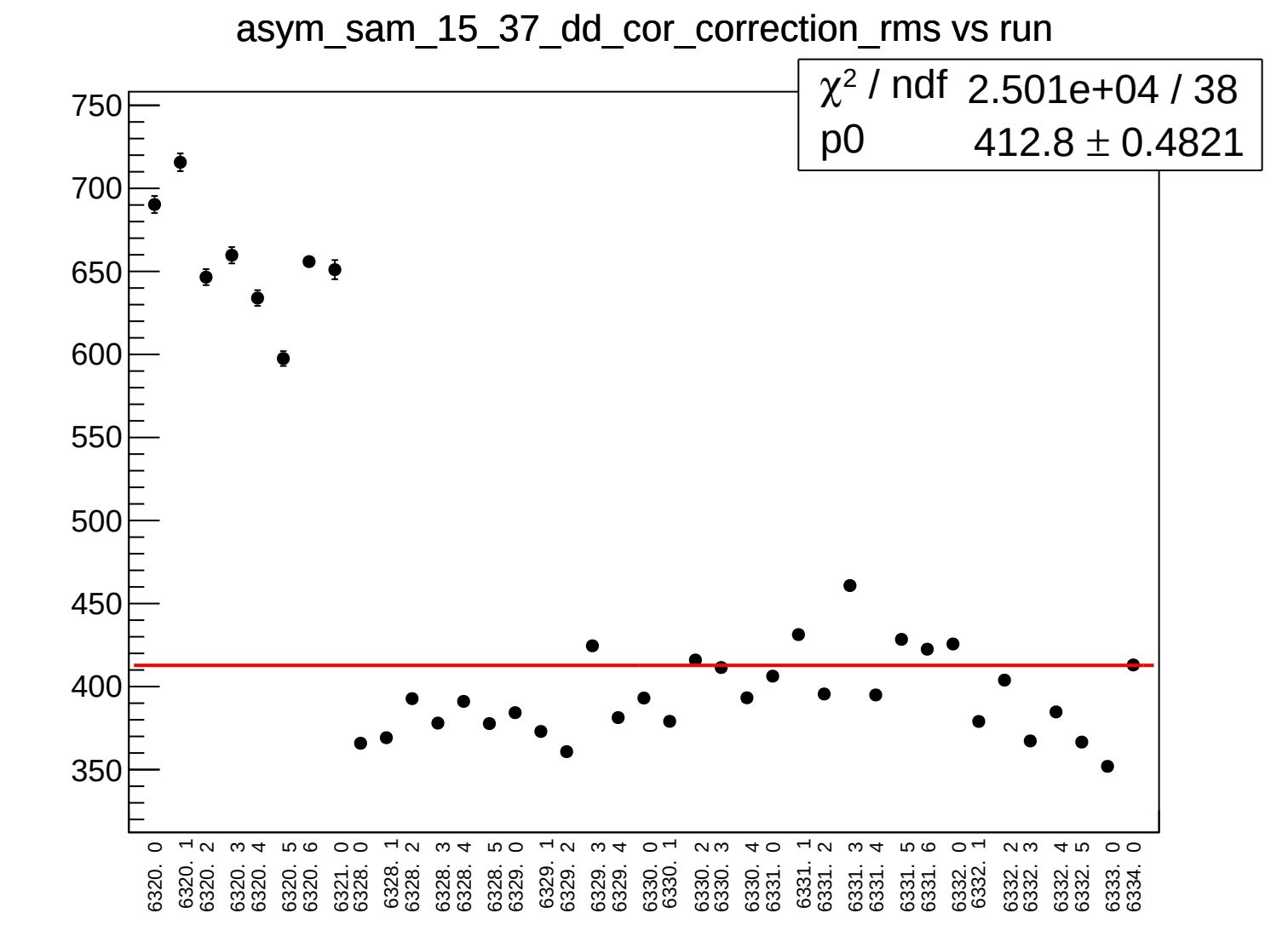

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.501e+04 / 38
p0 412.8 ± 0.4821
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

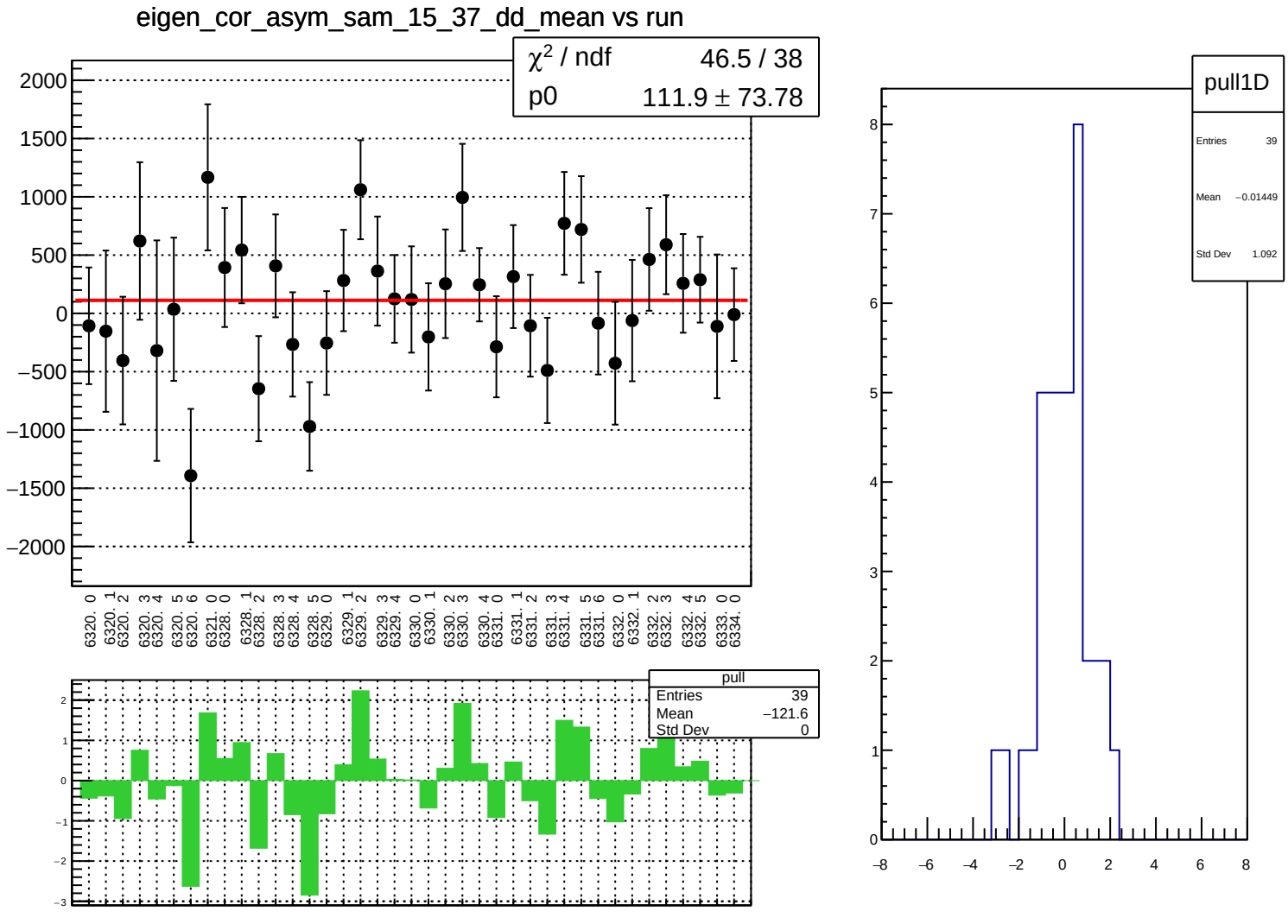

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 46.5 / 38
p0 111.9 ± 73.78
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −121.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01449
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

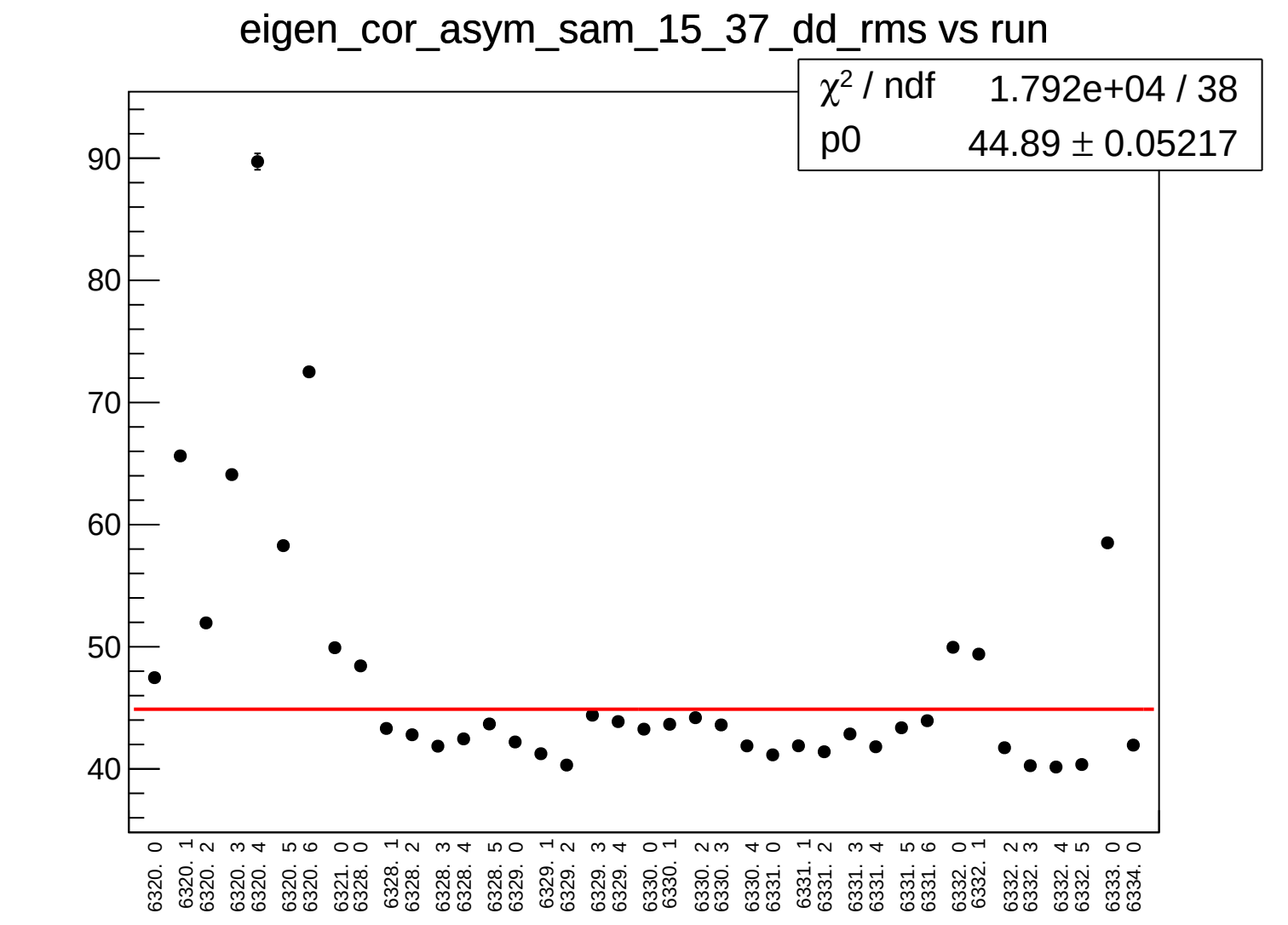

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.792e+04 / 38
p0 44.89 ± 0.05217
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

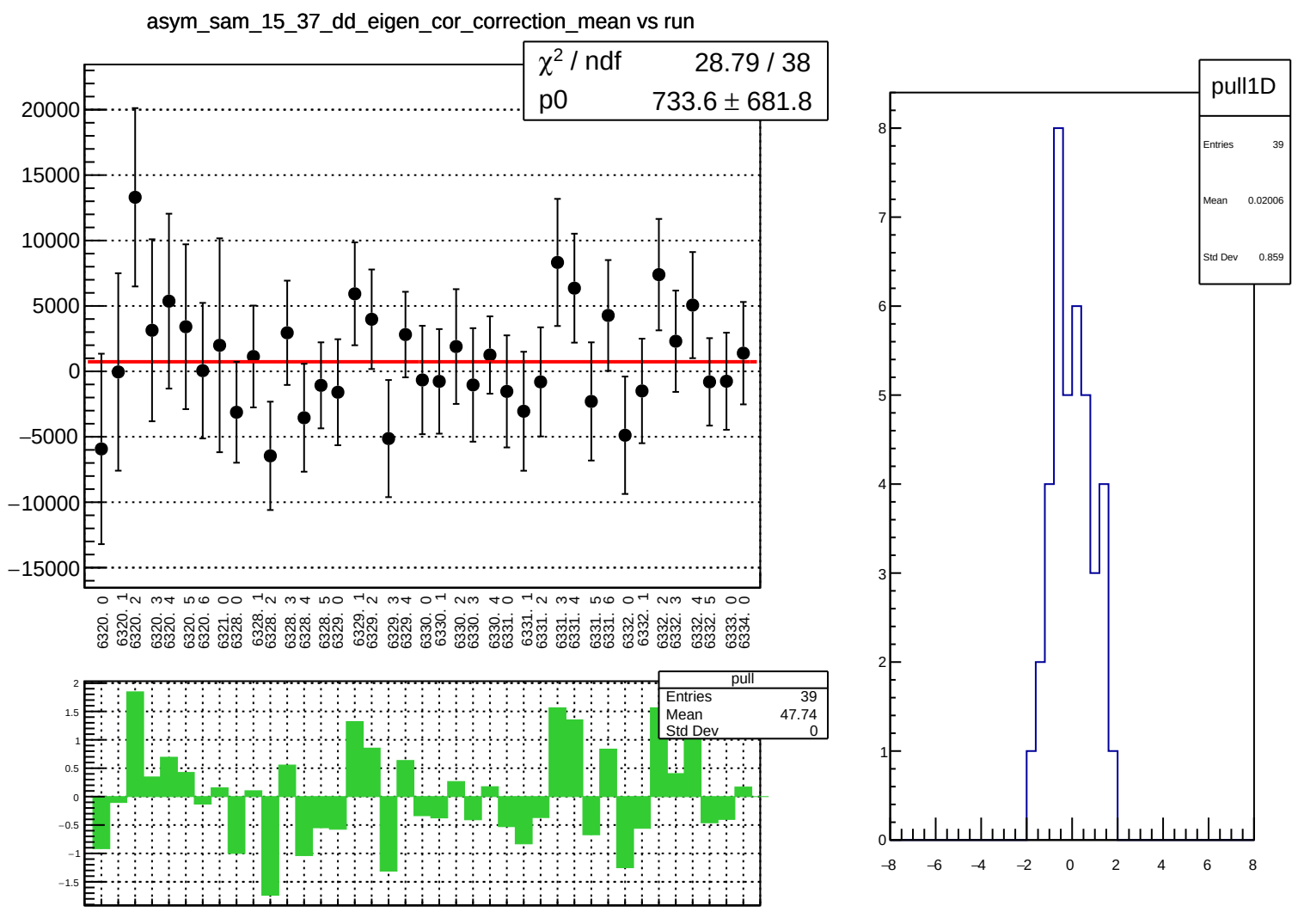

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 28.79 / 38
p0 733.6 ± 681.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

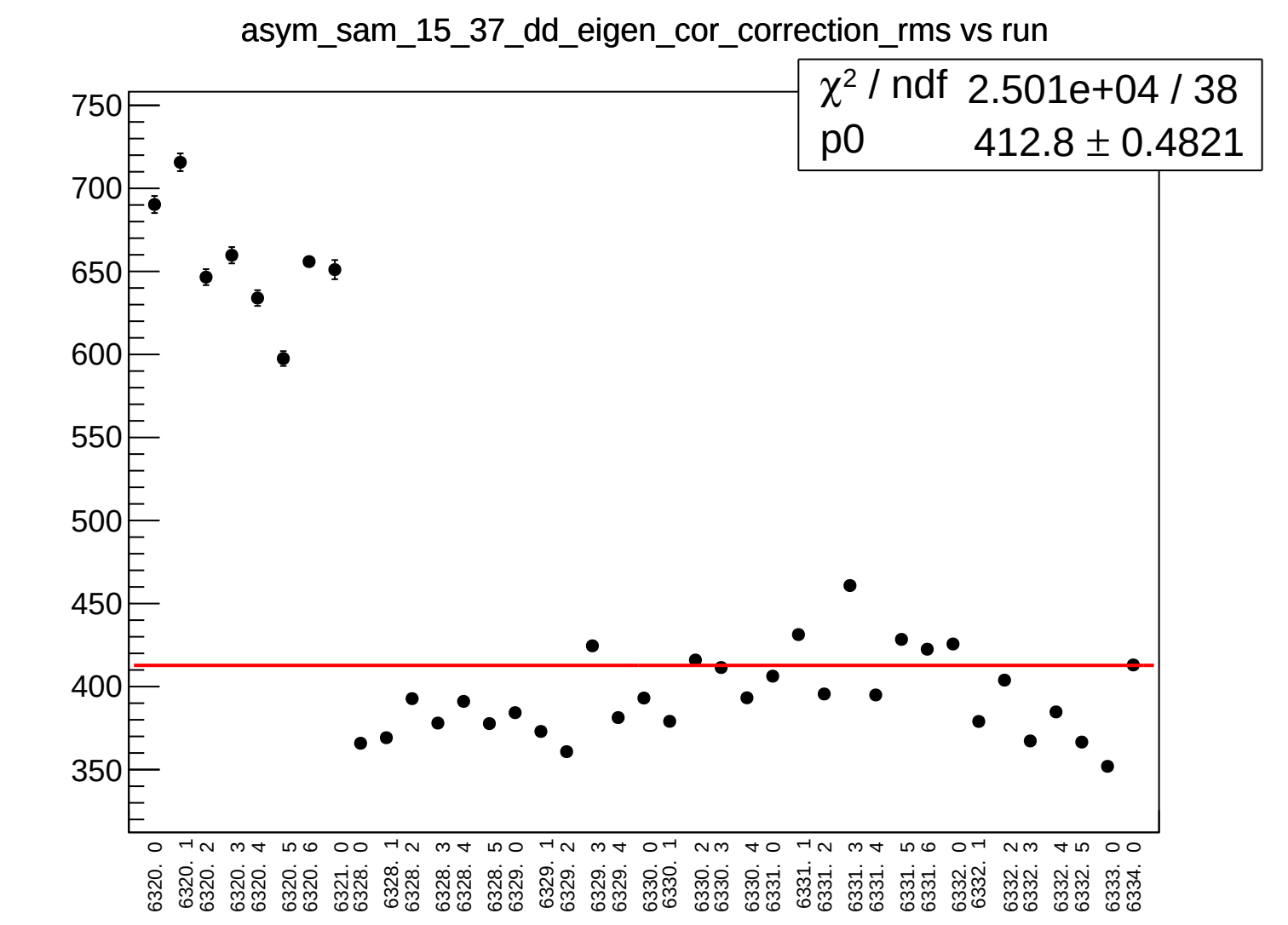

pull1D
Entries 39
Mean 0.02006
Std Dev 0.859
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.501e+04 / 38
p0 412.8 ± 0.4821
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 46.5 / 38
p0 111.9 ± 73.78
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −121.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01449
Std Dev 1.092
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 1.792e+04 / 38
p0 44.89 ± 0.05217
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.79 / 38
p0 733.6 ± 681.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02006
Std Dev 0.859
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 2.501e+04 / 38
p0 412.8 ± 0.4821
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
6330. 0
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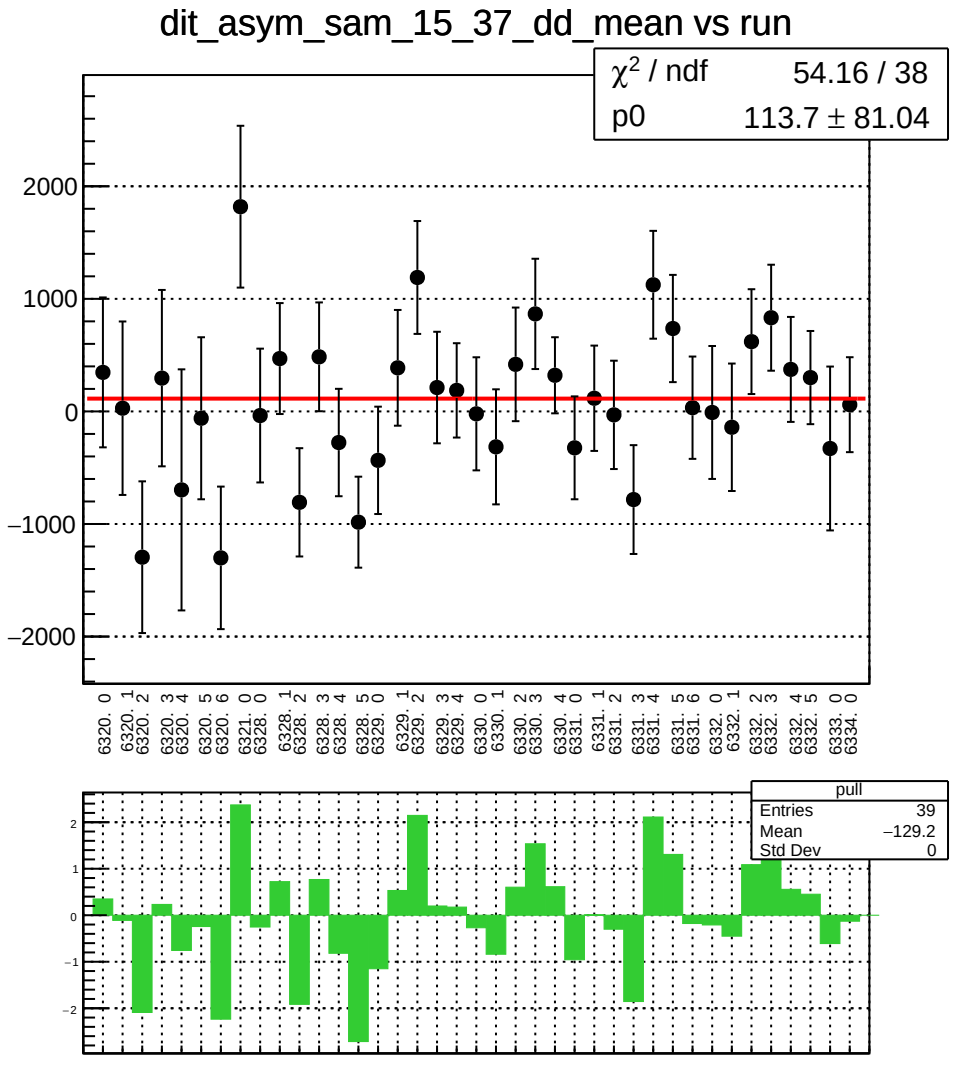
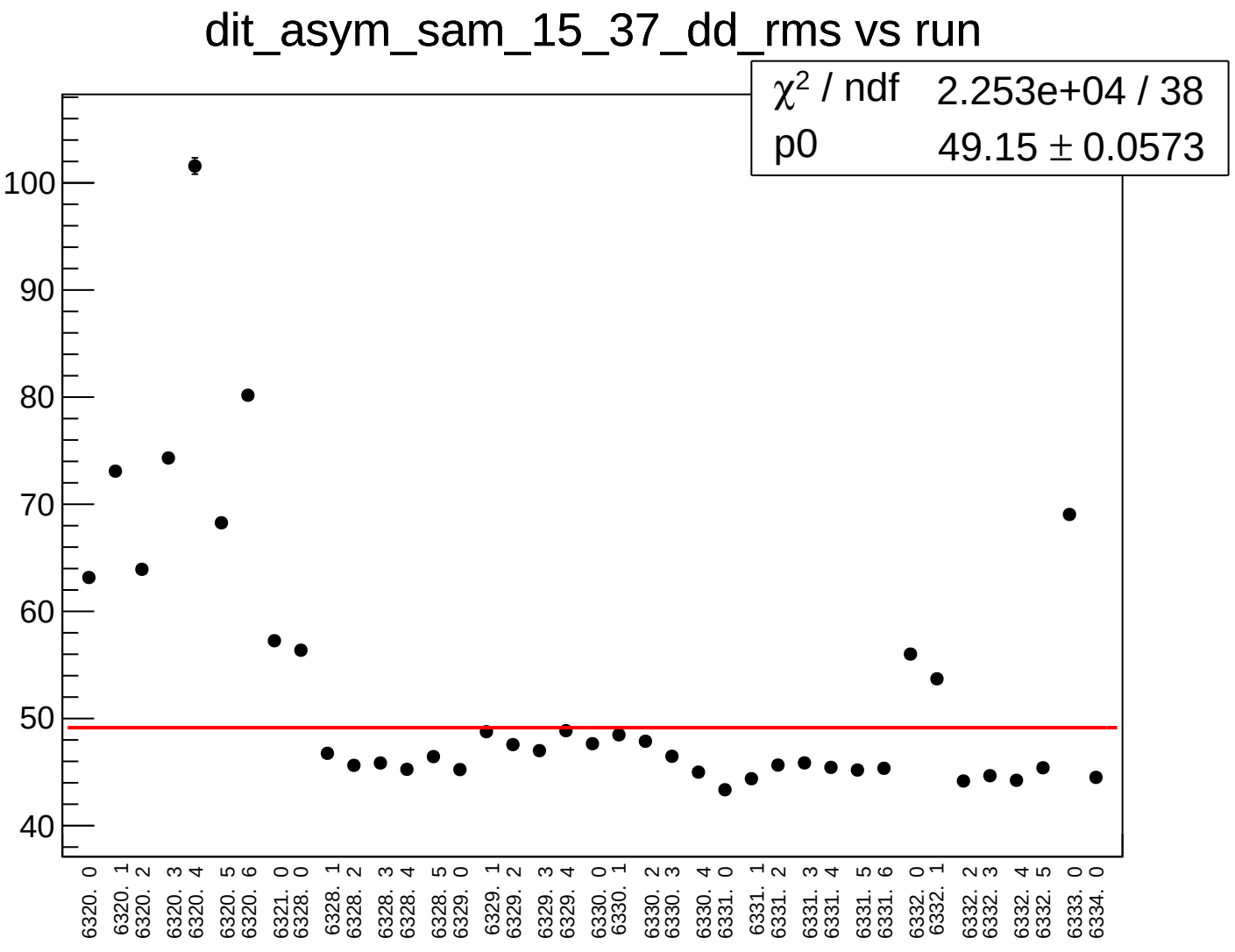
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 54.16 / 38
p0 113.7 ± 81.04
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −129.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02011
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.253e+04 / 38
p0 49.15 ± 0.0573
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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6332. 2
6332. 3
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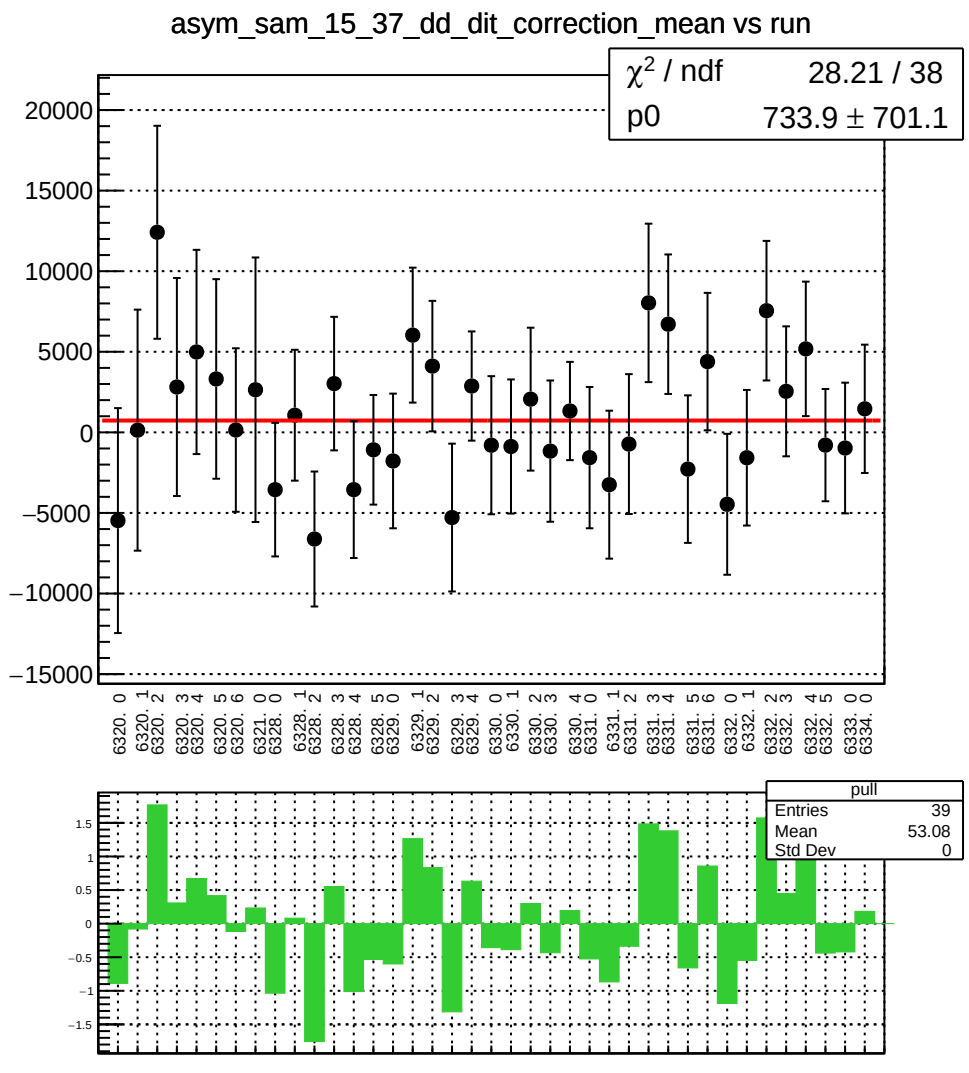
6332. 5
6333. 0
6334. 0


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 28.21 / 38
p0 733.9 ± 701.1
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 4
6330. 0
6330. 1
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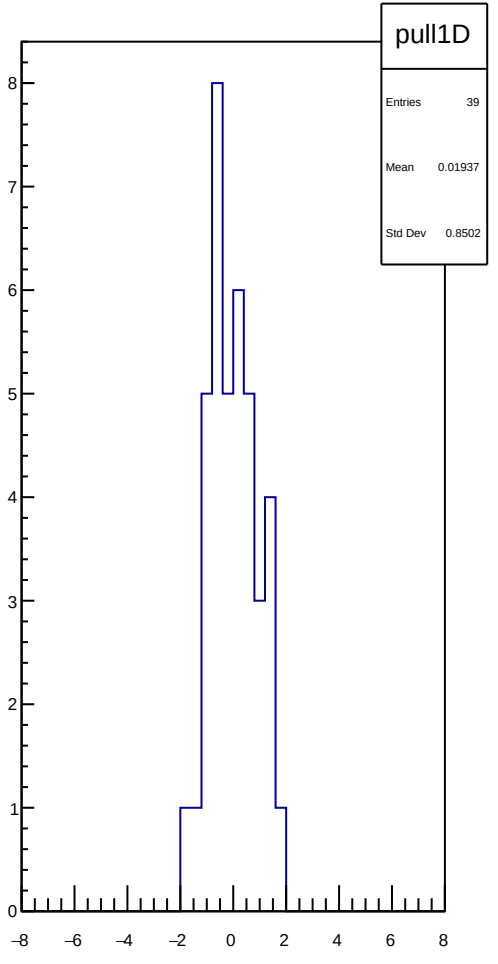
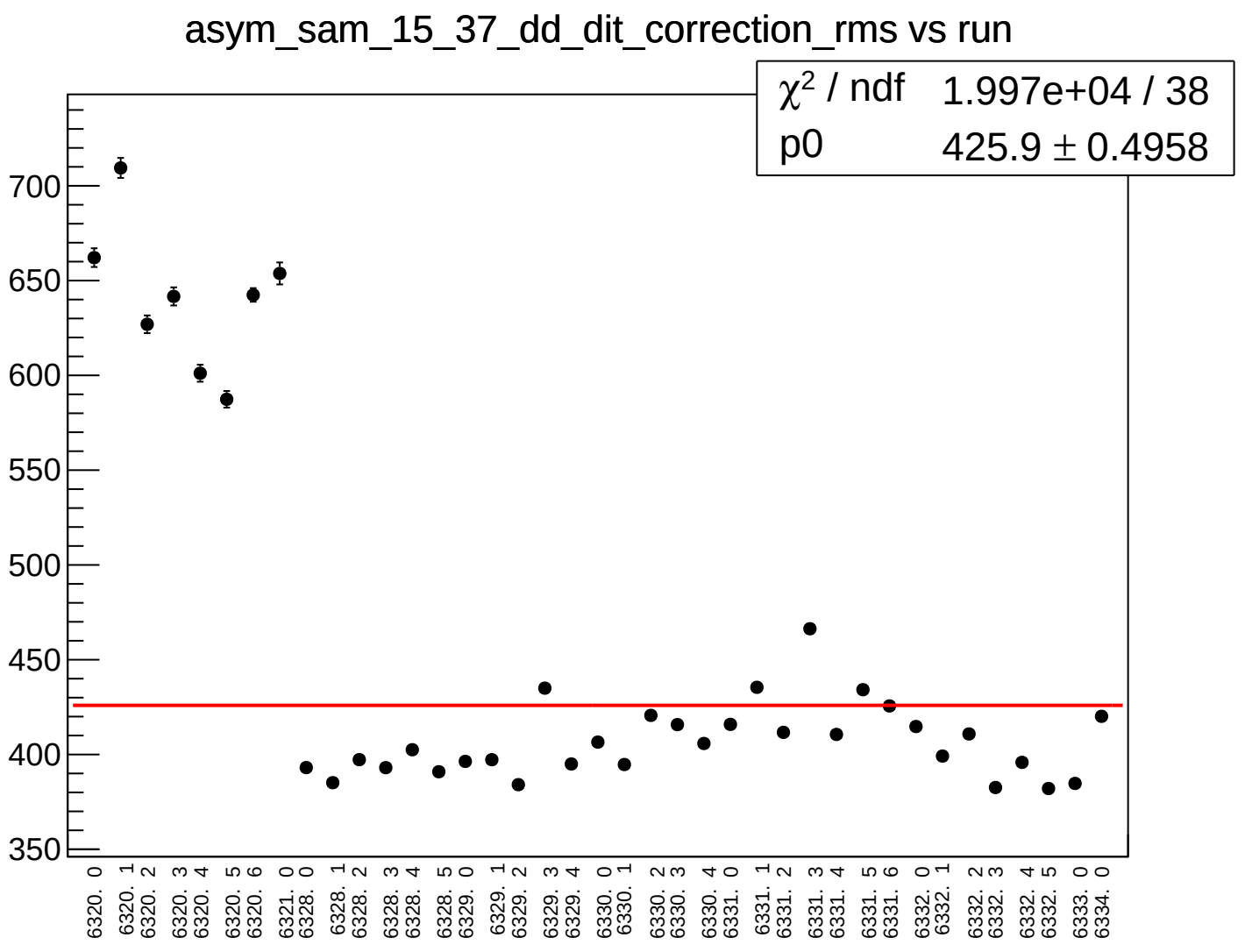
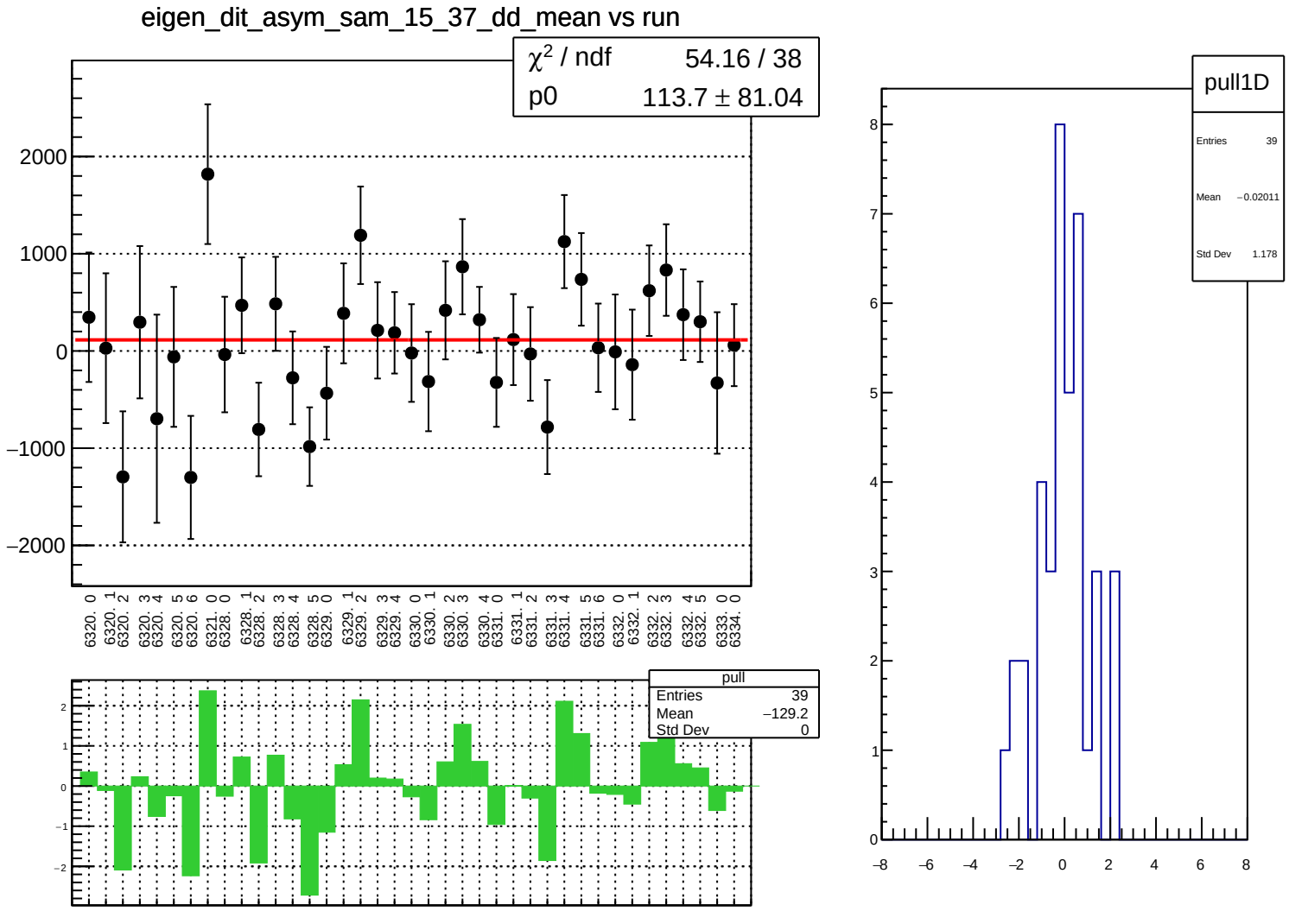
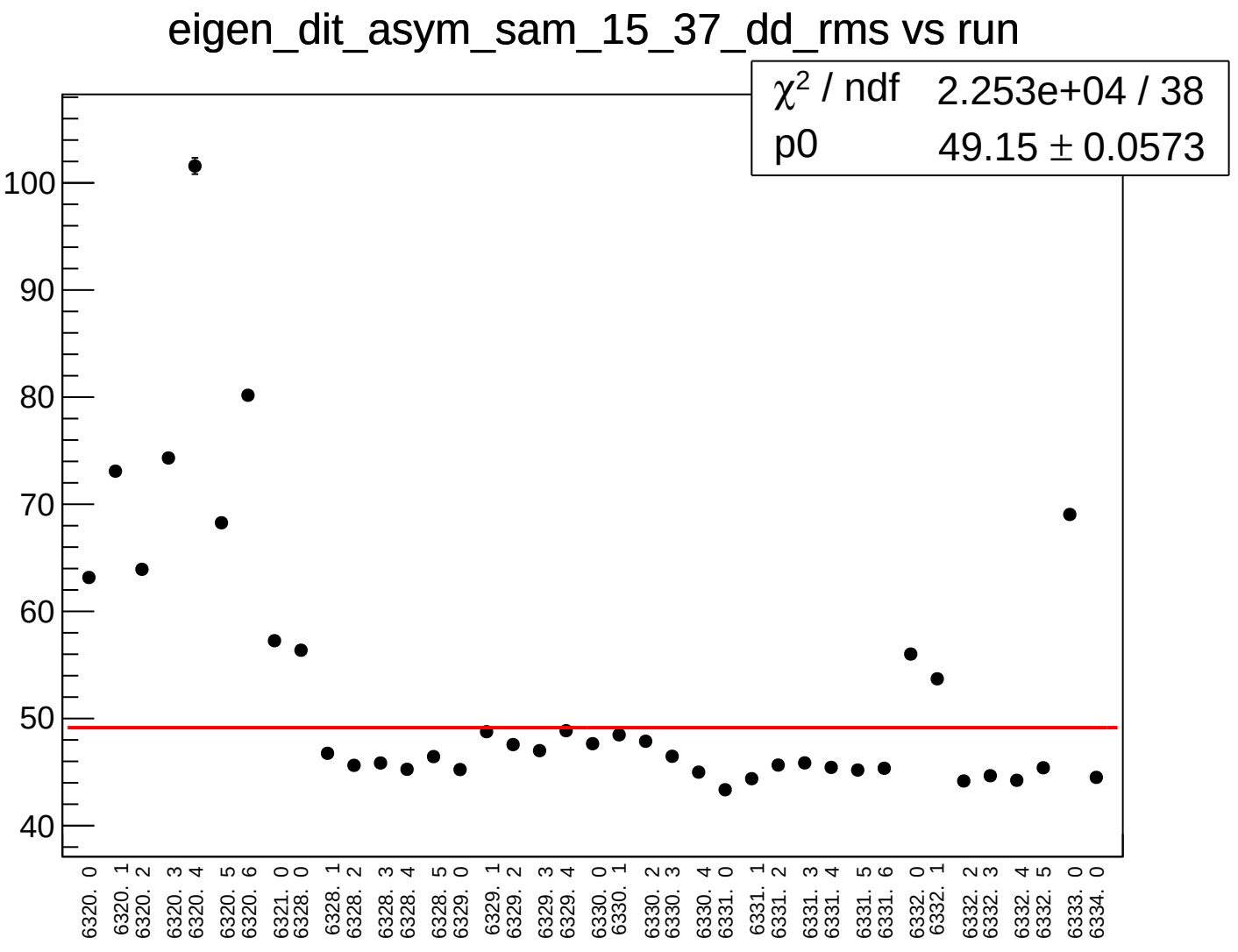
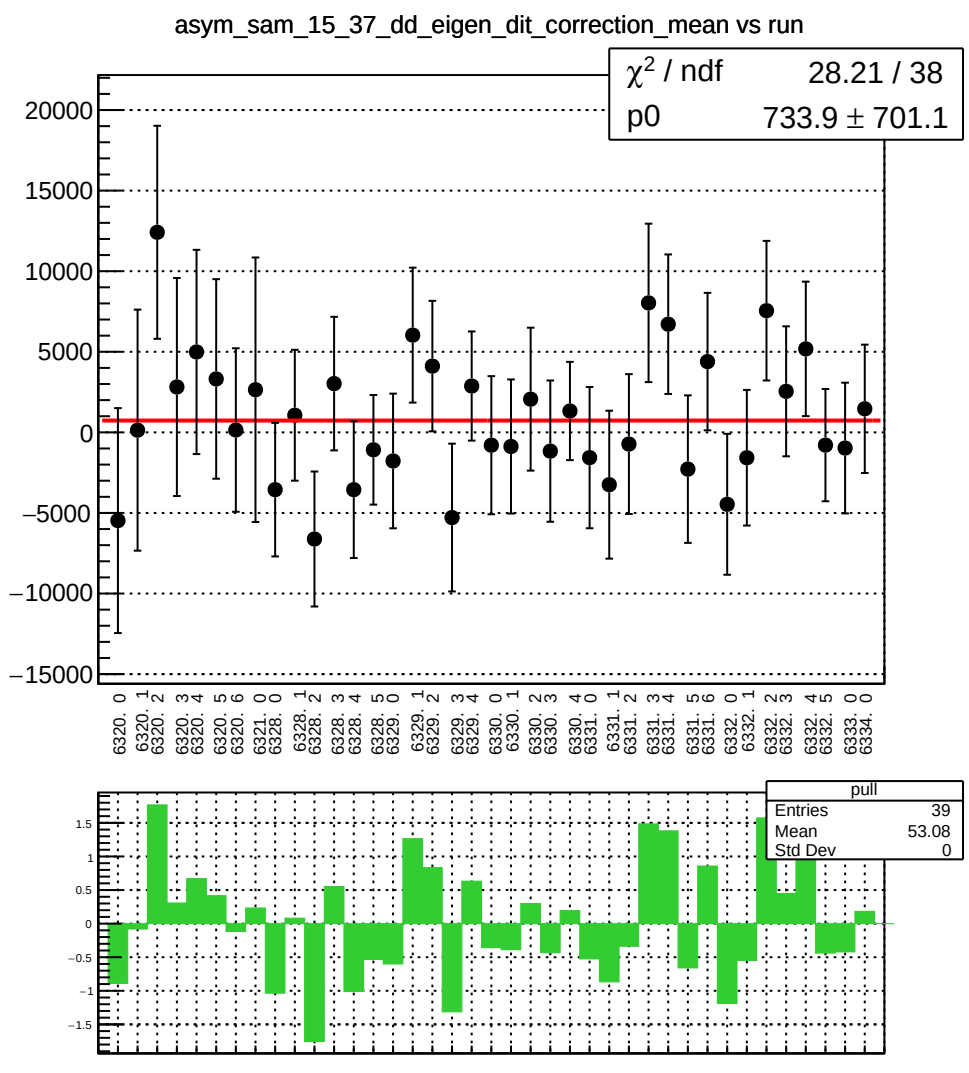
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

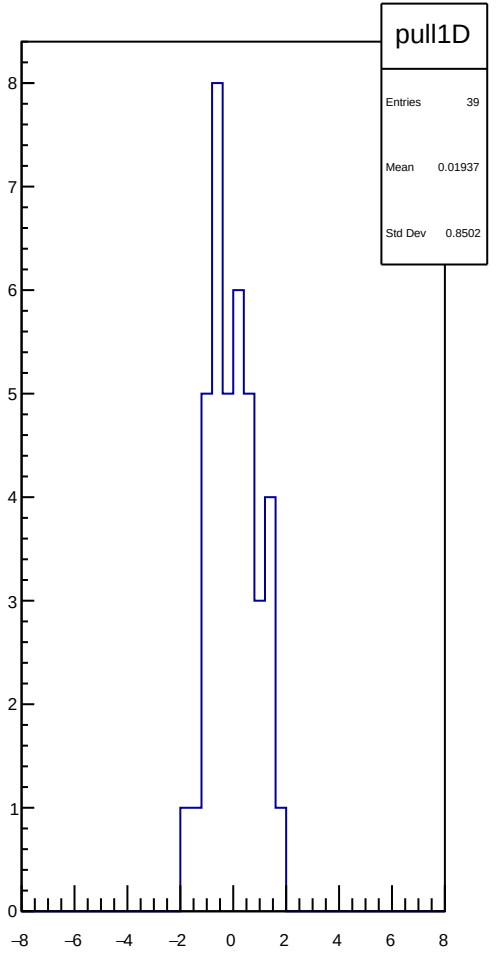

pull1D
Entries 39
Mean 0.01937
Std Dev 0.8502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

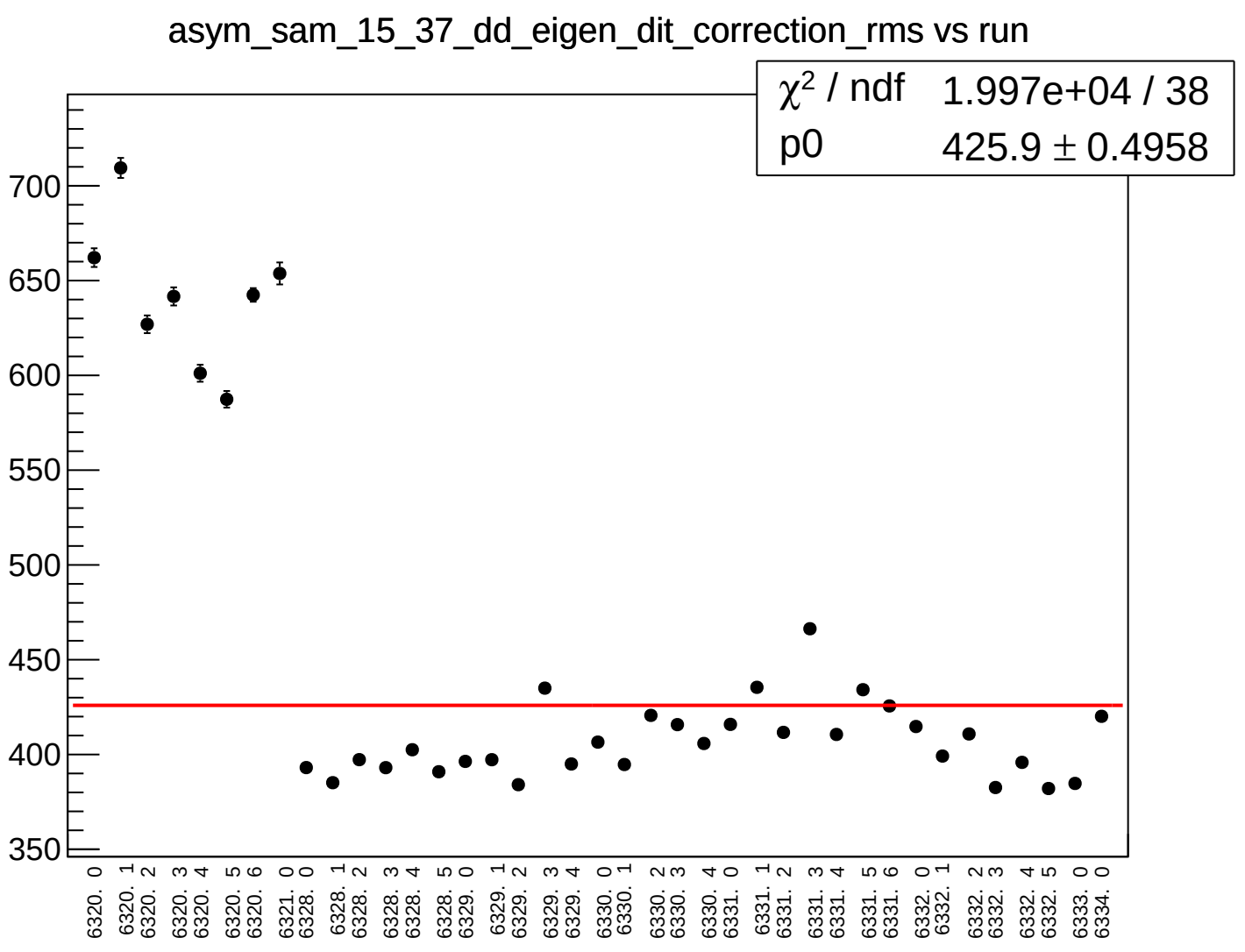

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.997e+04 / 38
p0 425.9 ± 0.4958
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

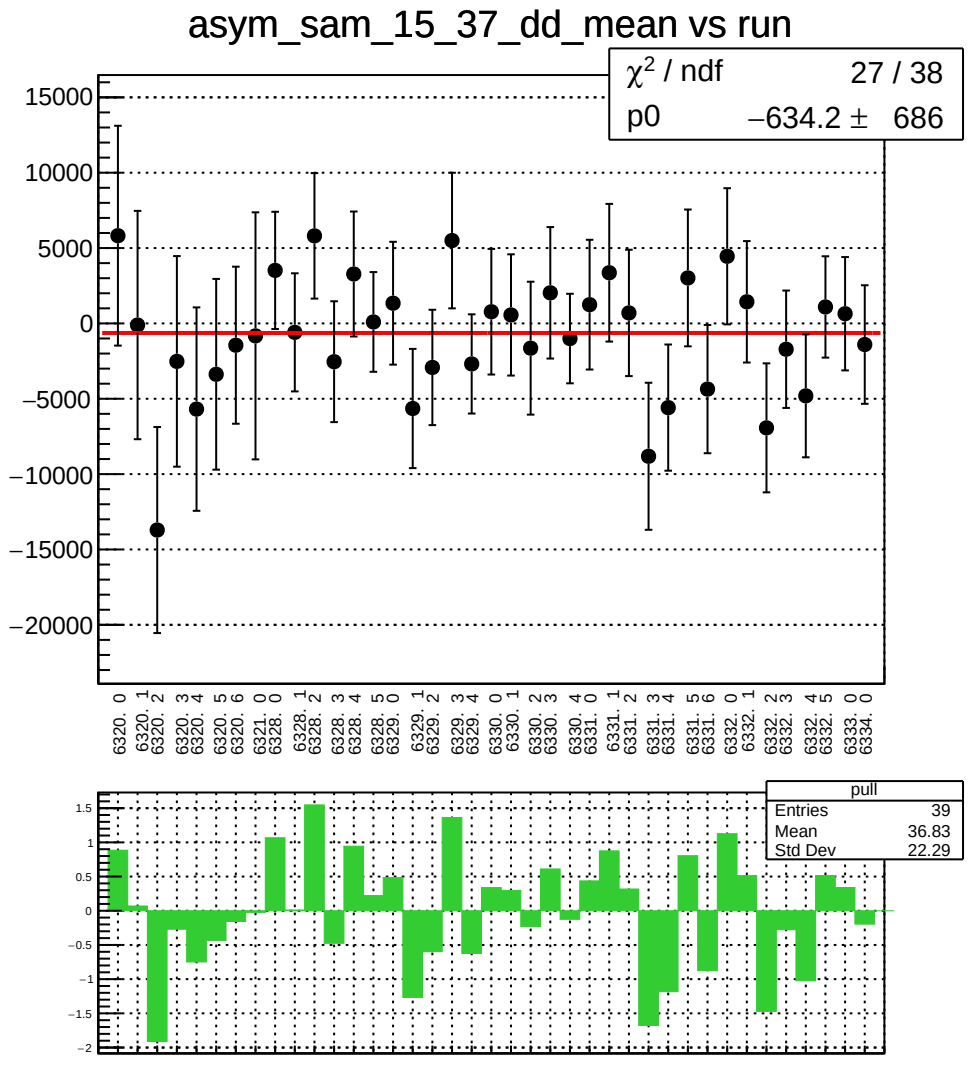

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 54.16 / 38
p0 113.7 ± 81.04
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −129.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02011
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

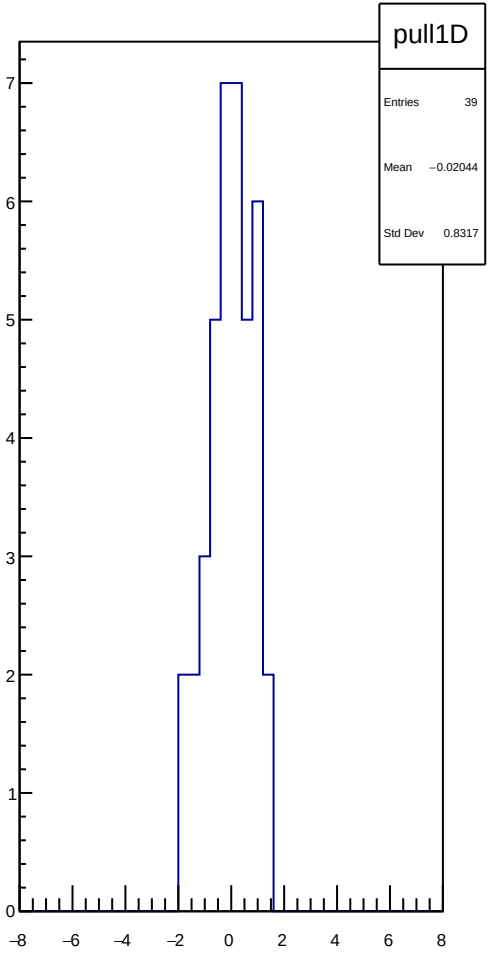

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.253e+04 / 38
p0 49.15 ± 0.0573
100
90
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

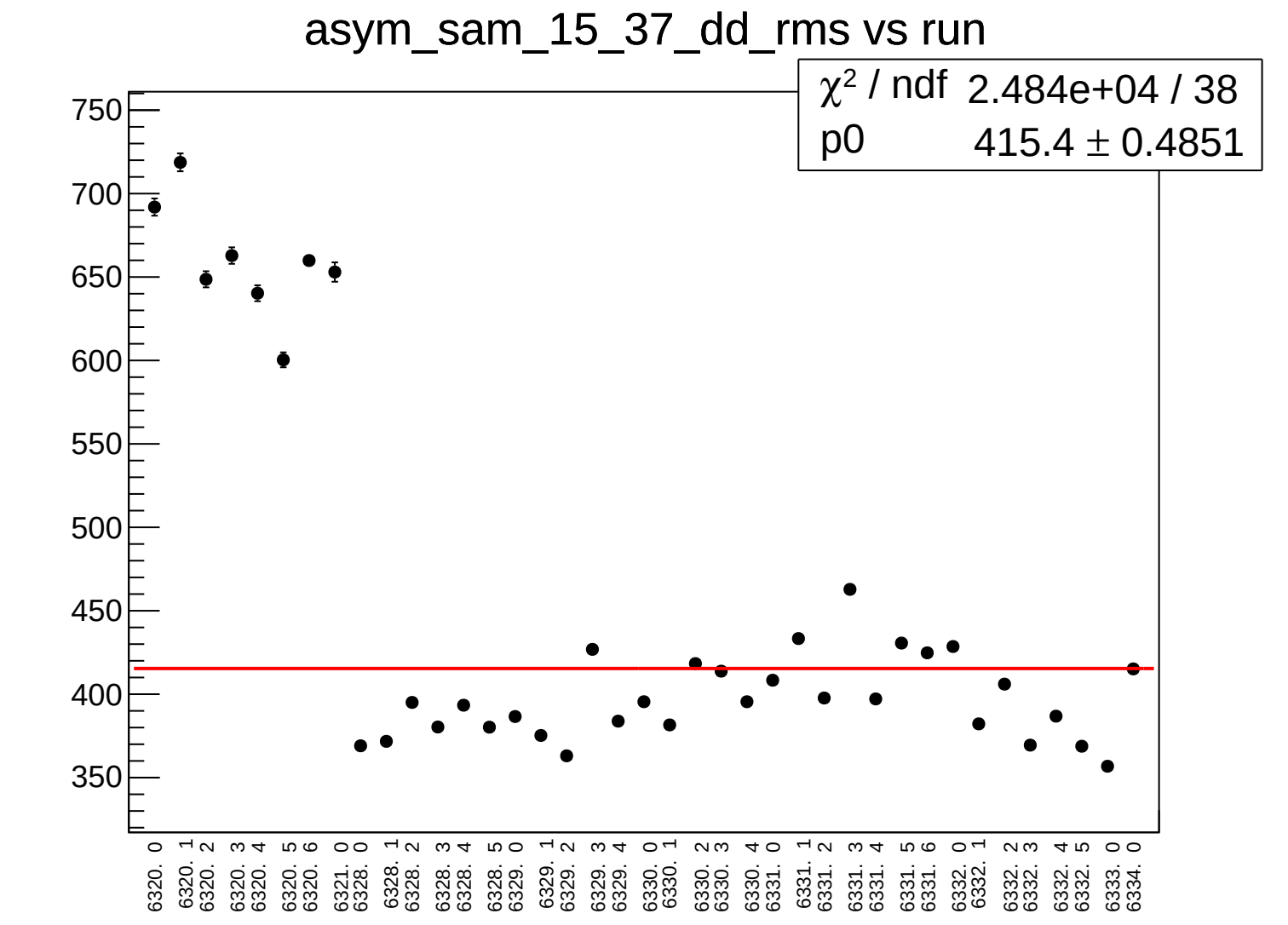

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 28.21 / 38
p0 733.9 ± 701.1
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

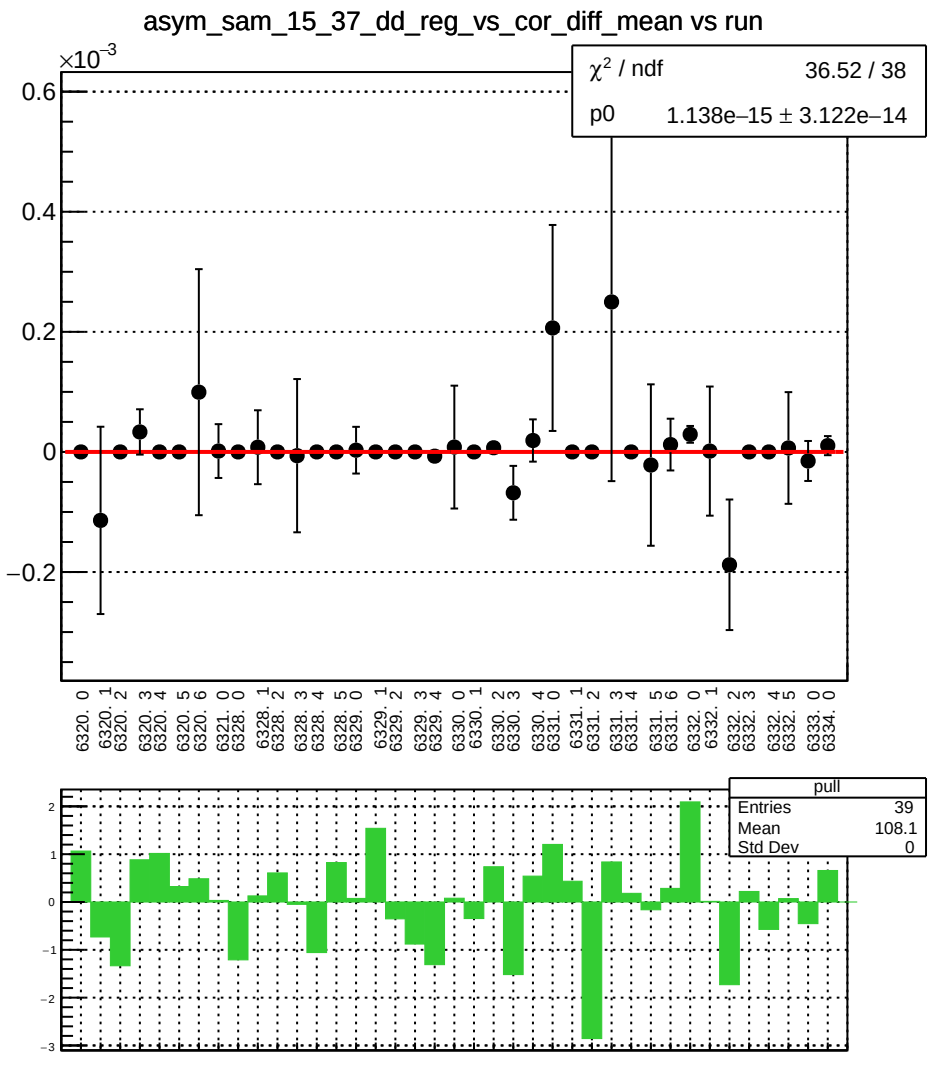

pull1D
Entries 39
Mean 0.01937
Std Dev 0.8502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

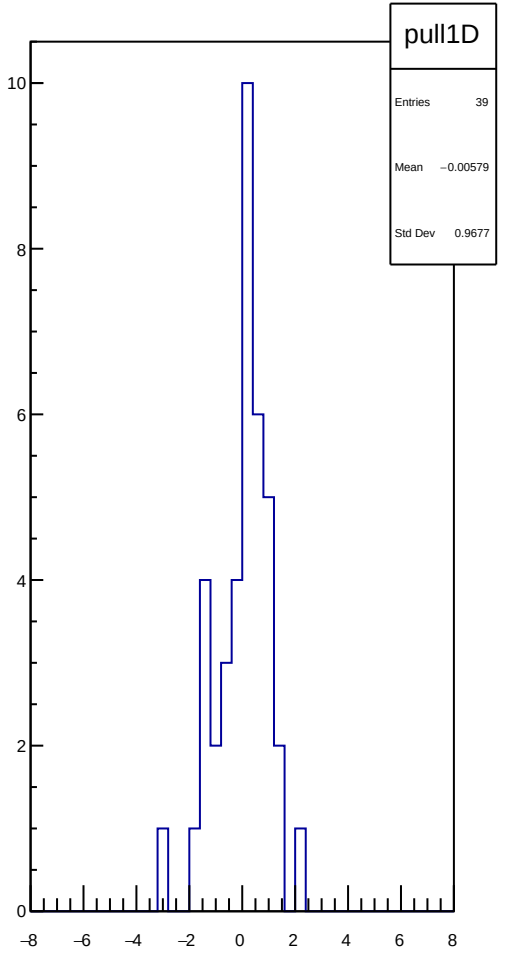

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.997e+04 / 38
p0 425.9 ± 0.4958
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

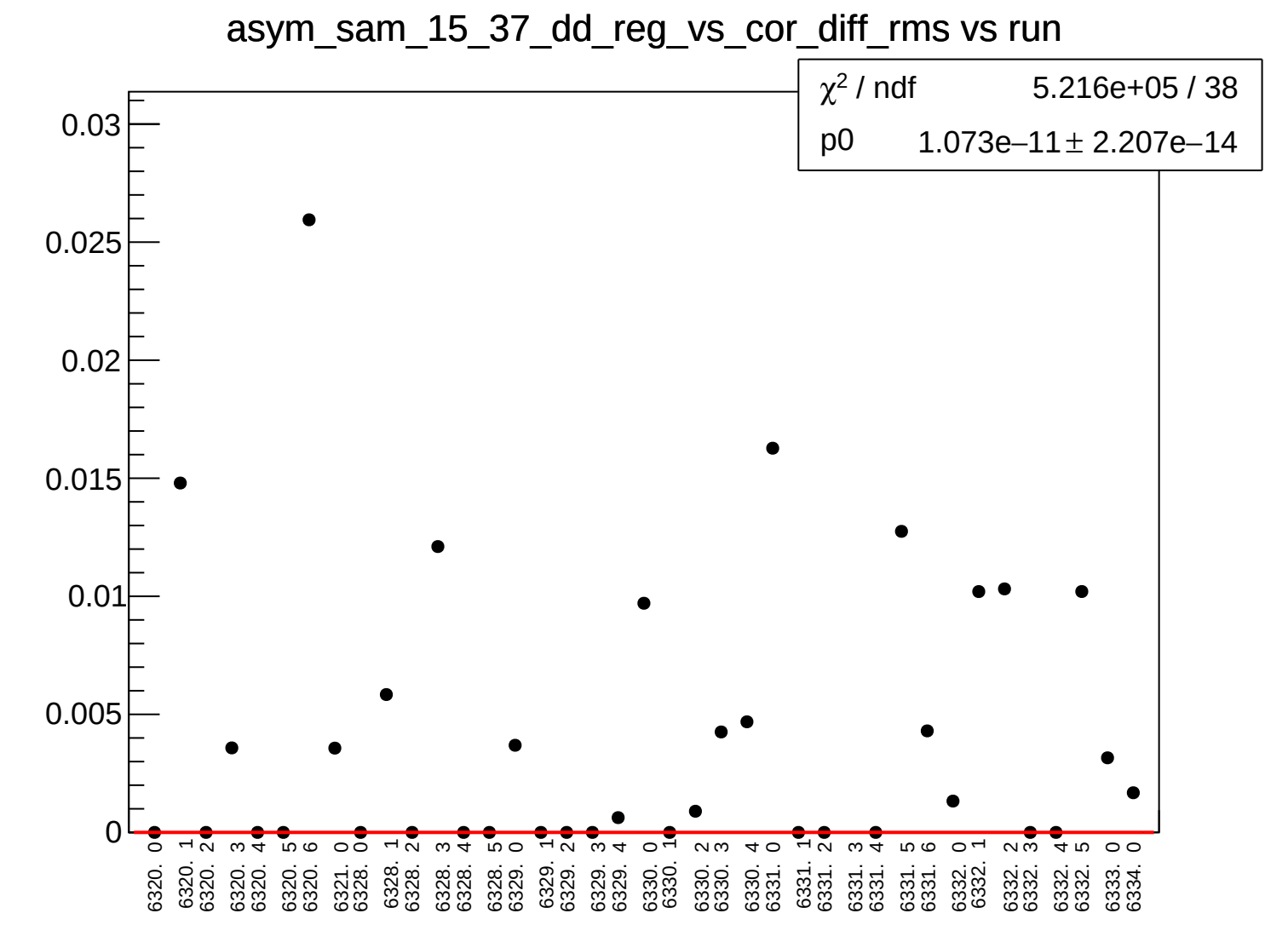

asym_sam_15_37_dd_mean vs run
χ² / ndf 27 / 38
p0 −634.2 ± 686
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 36.83
Std Dev 22.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2

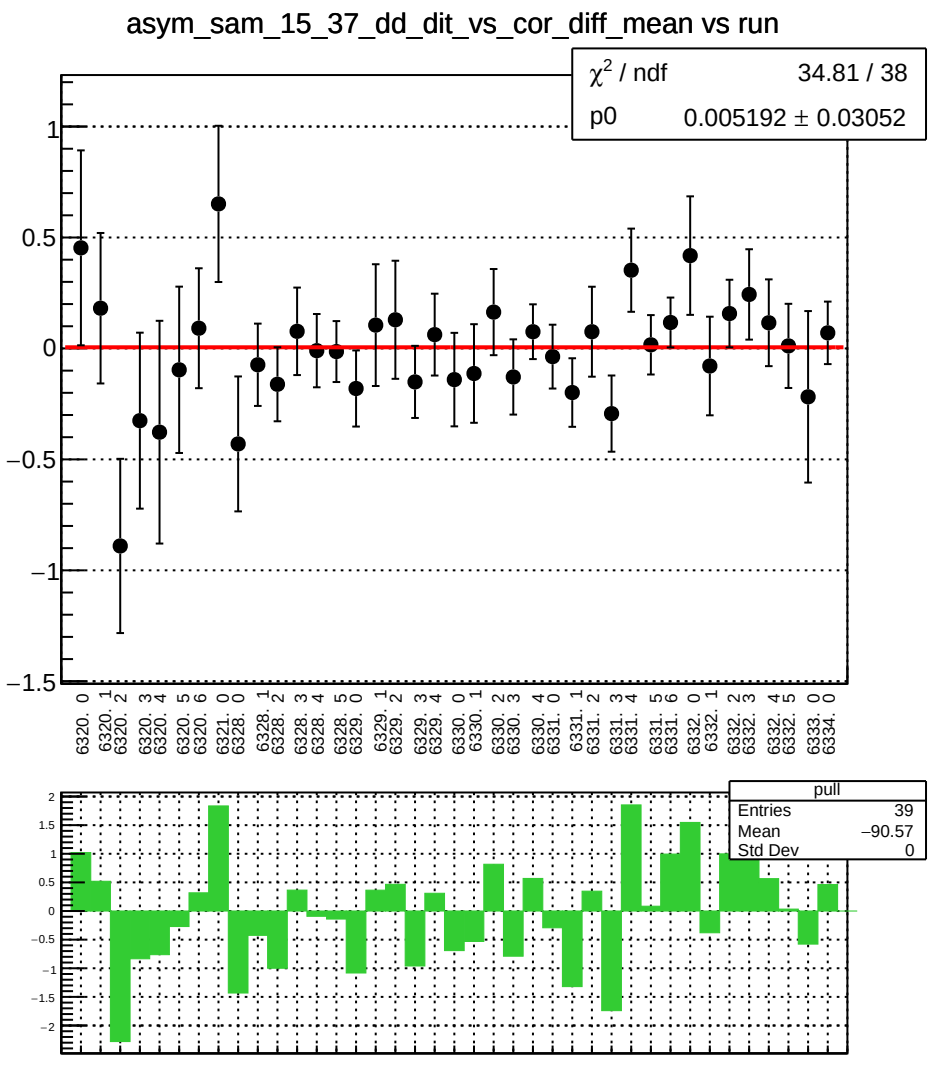

pull1D
Entries 39
Mean −0.02044
Std Dev 0.8317
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

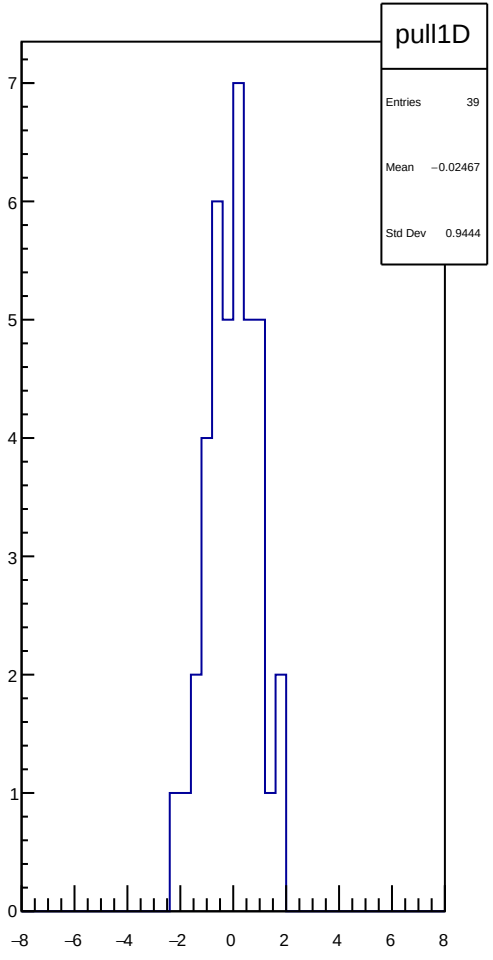

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.484e+04 / 38
p0 415.4 ± 0.4851
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

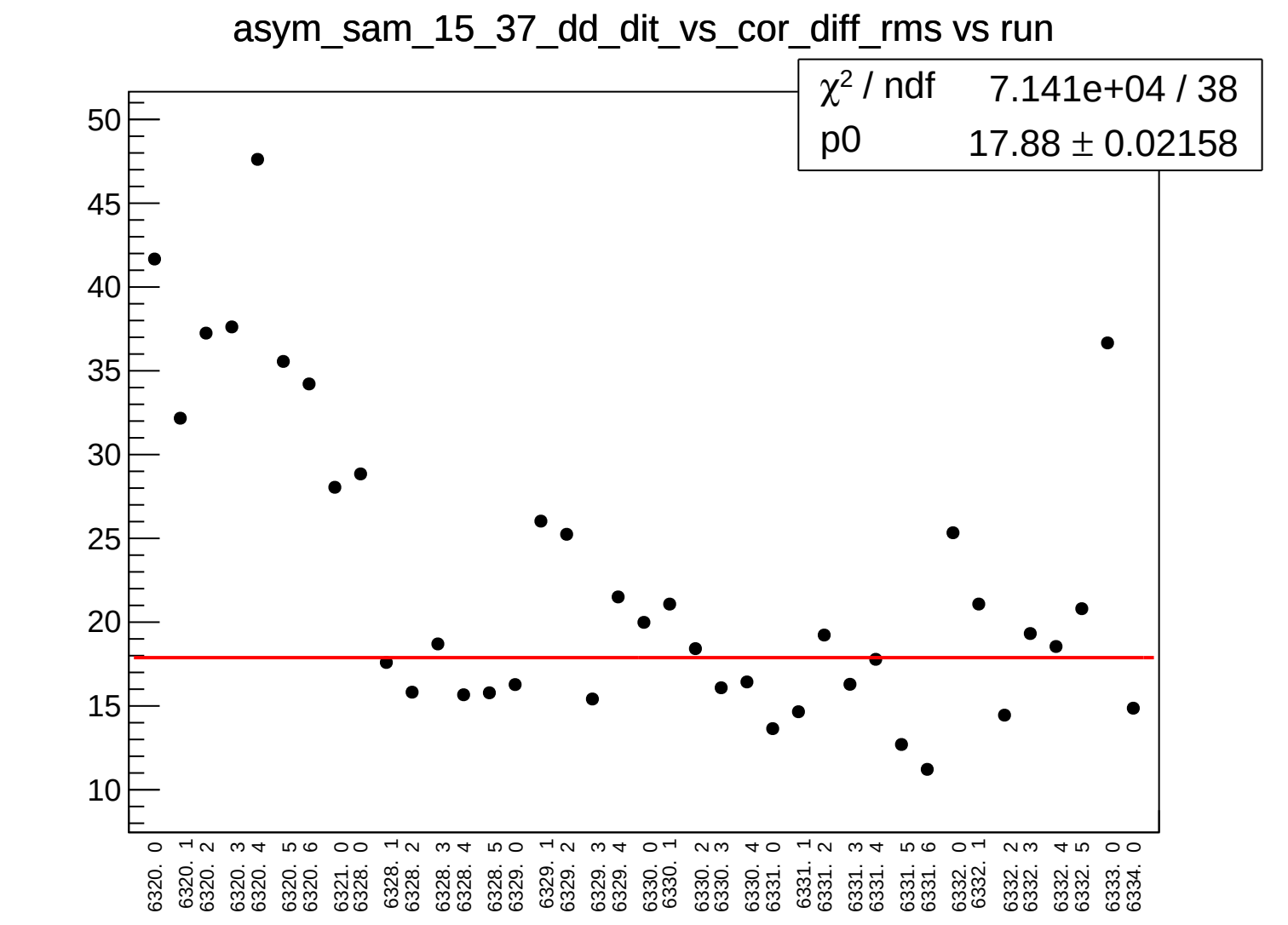

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 36.52 / 38
p0 1.138e−15 ± 3.122e−14
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 108.1
Std Dev 0
2
1
0
−1
−2
−3

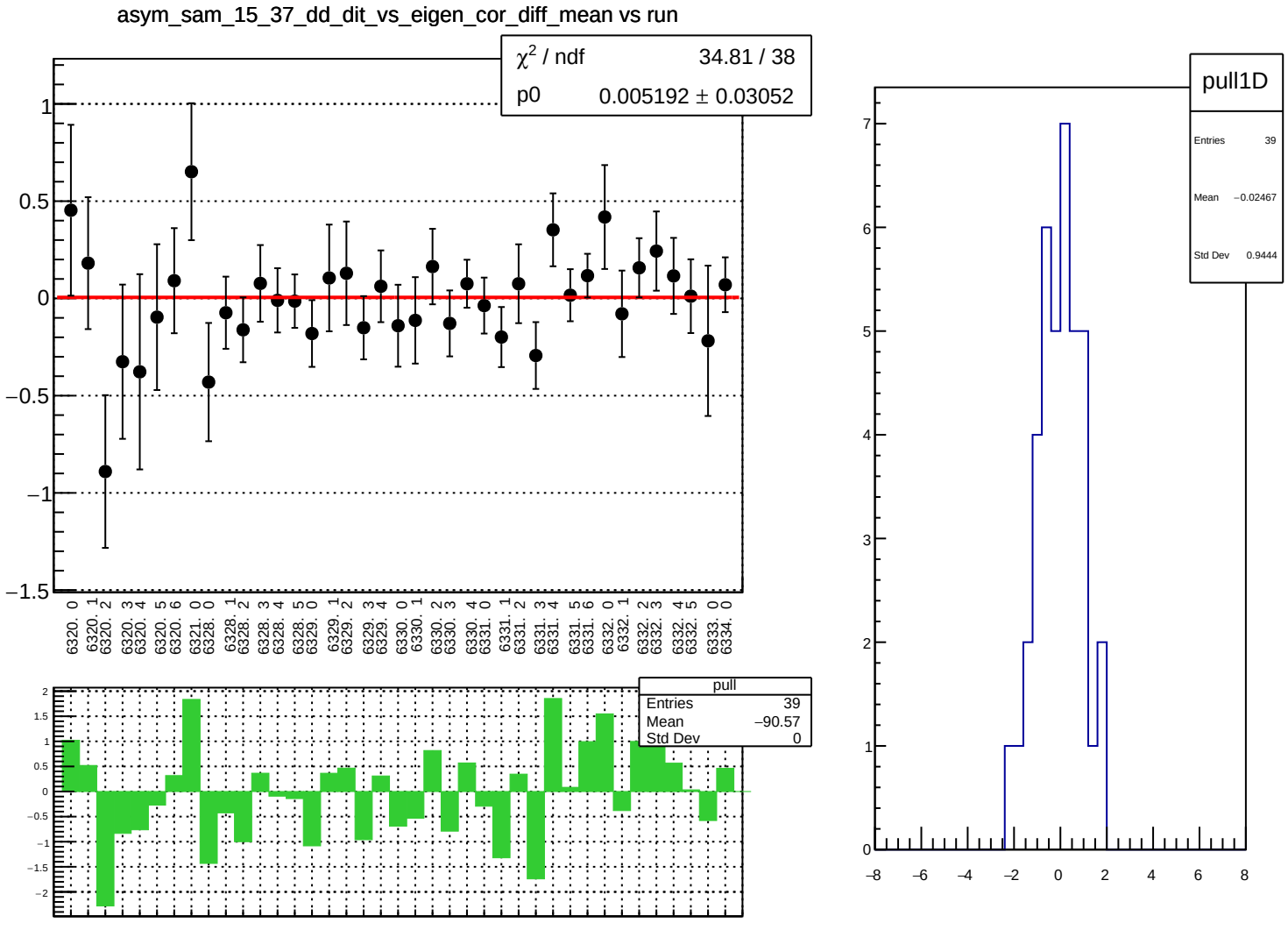

pull1D
Entries 39
Mean −0.00579
Std Dev 0.9677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

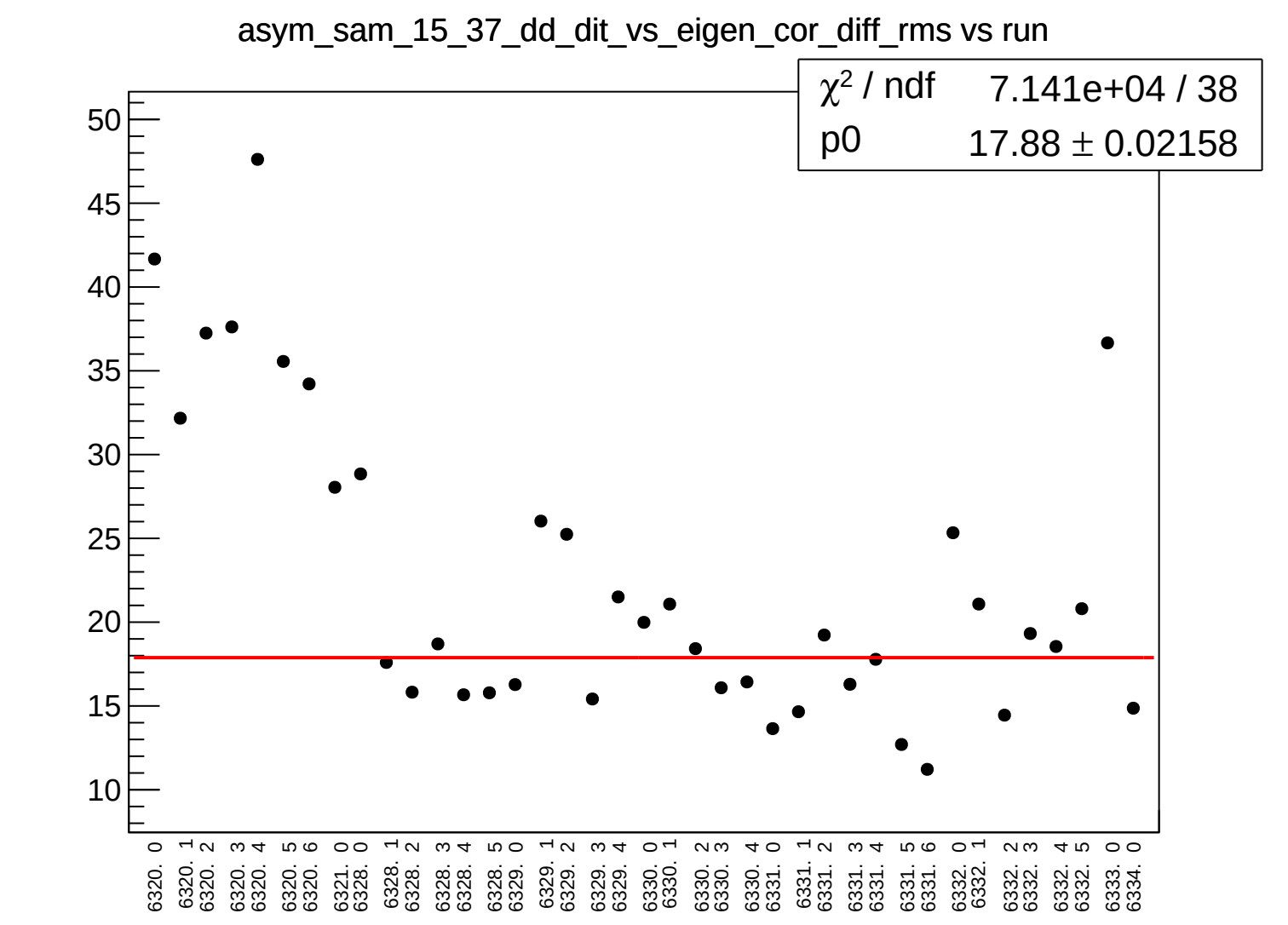

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.216e+05 / 38
p0 1.073e−11 ± 2.207e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

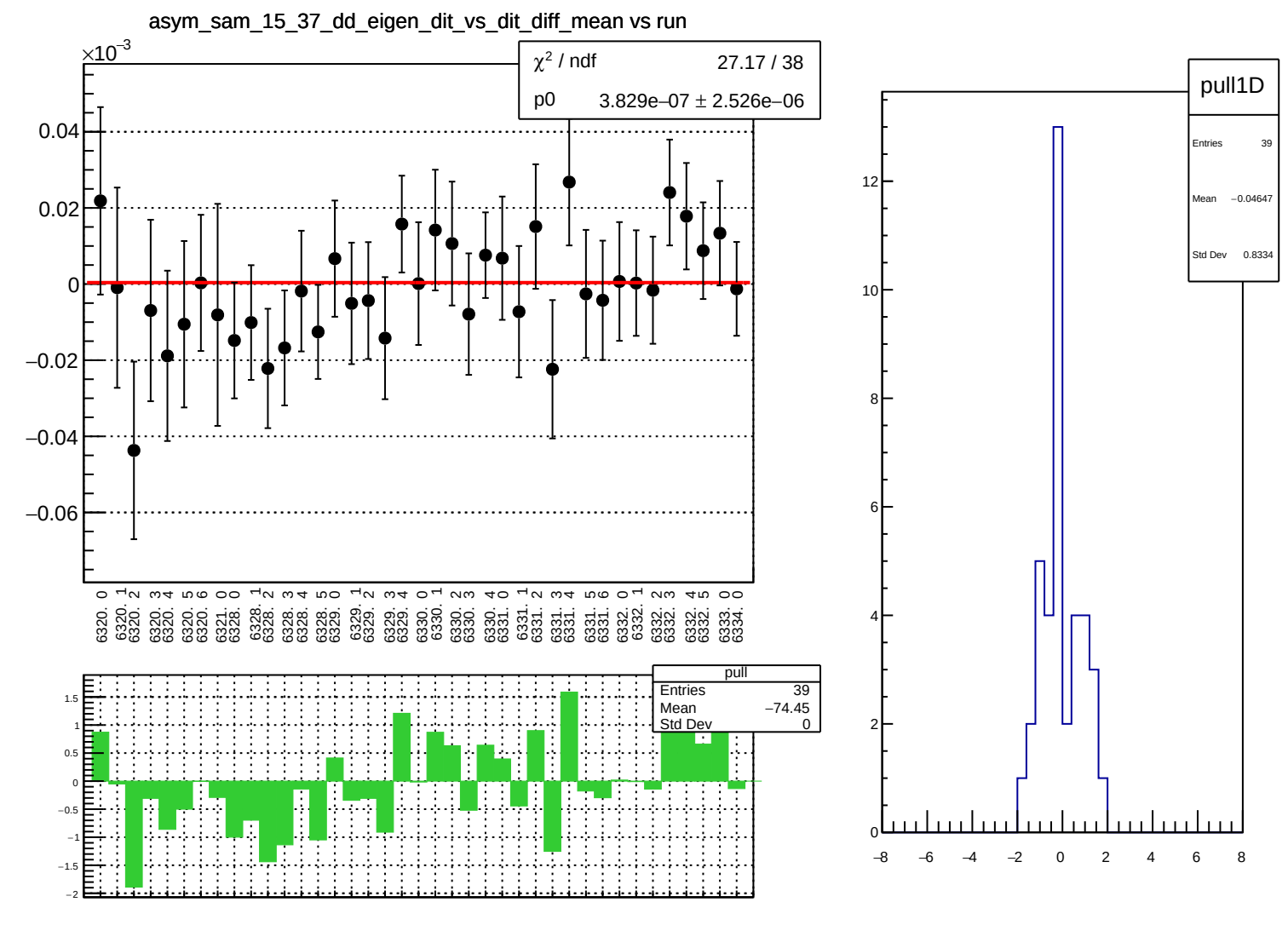

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 0.005192 ± 0.03052
pull
Entries 39
Mean −90.57
Std Dev 0

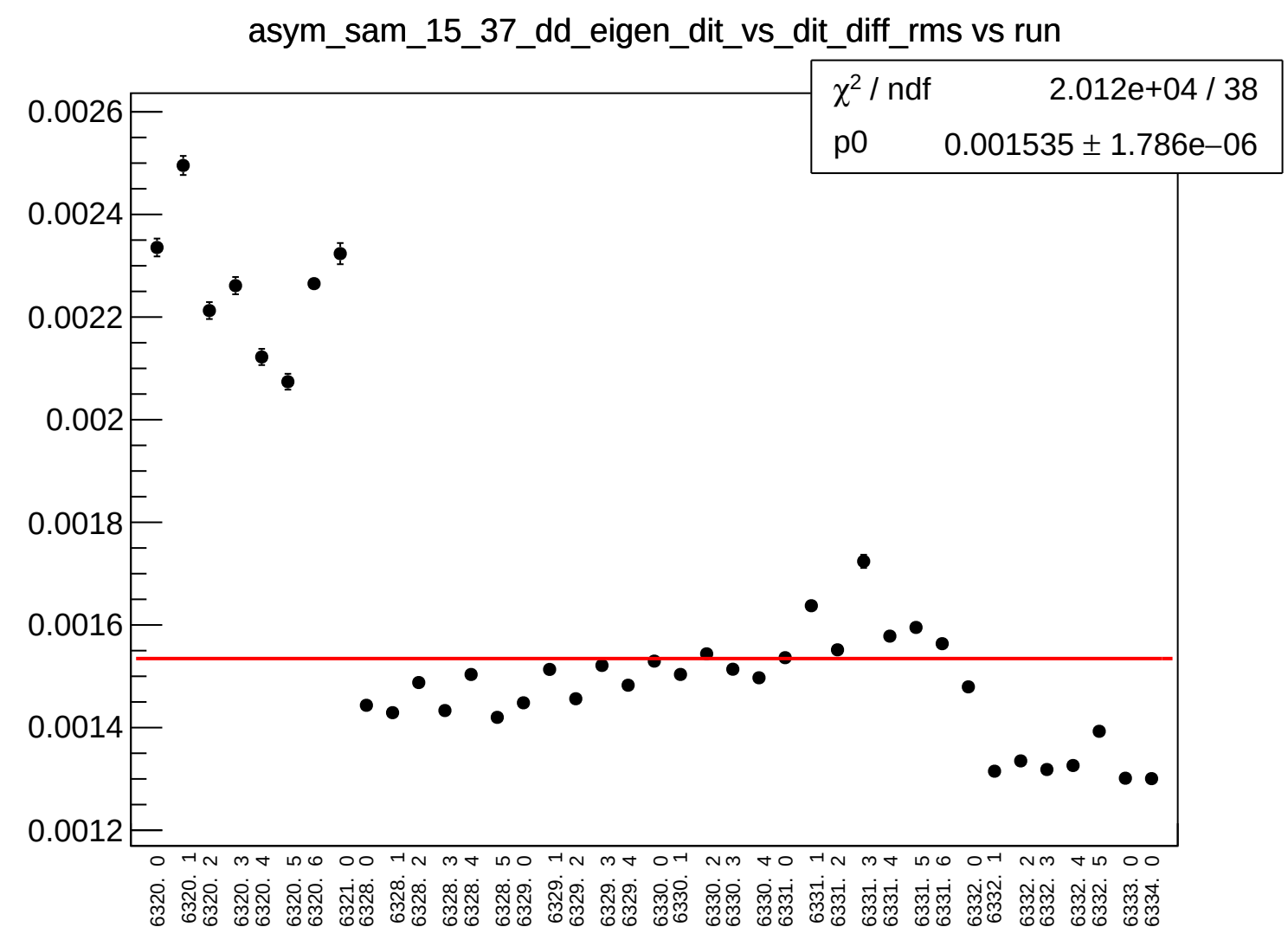

pull1D
Entries 39
Mean −0.02467
Std Dev 0.9444

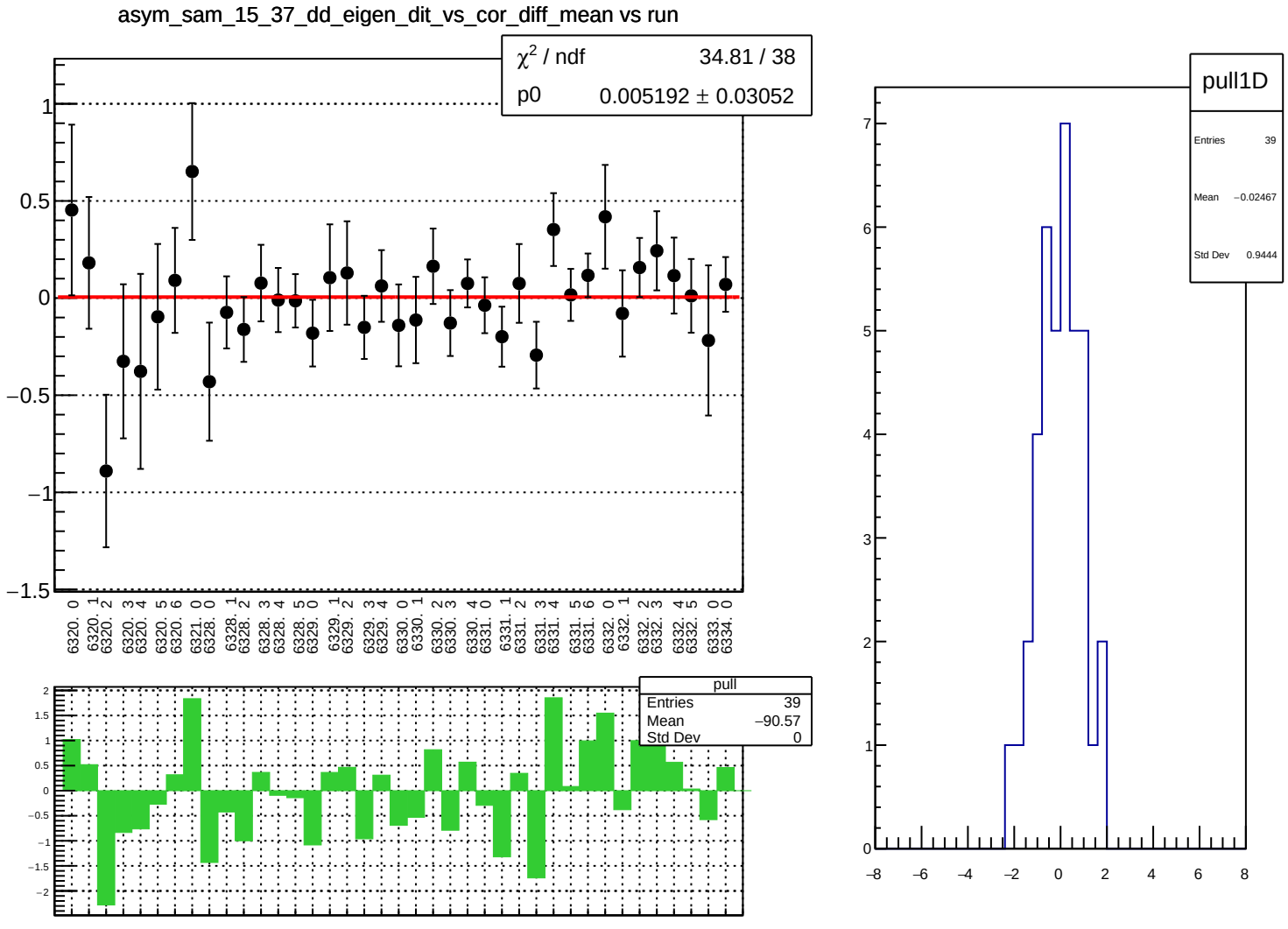

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.141e+04 / 38
p0 17.88 ± 0.02158
50
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

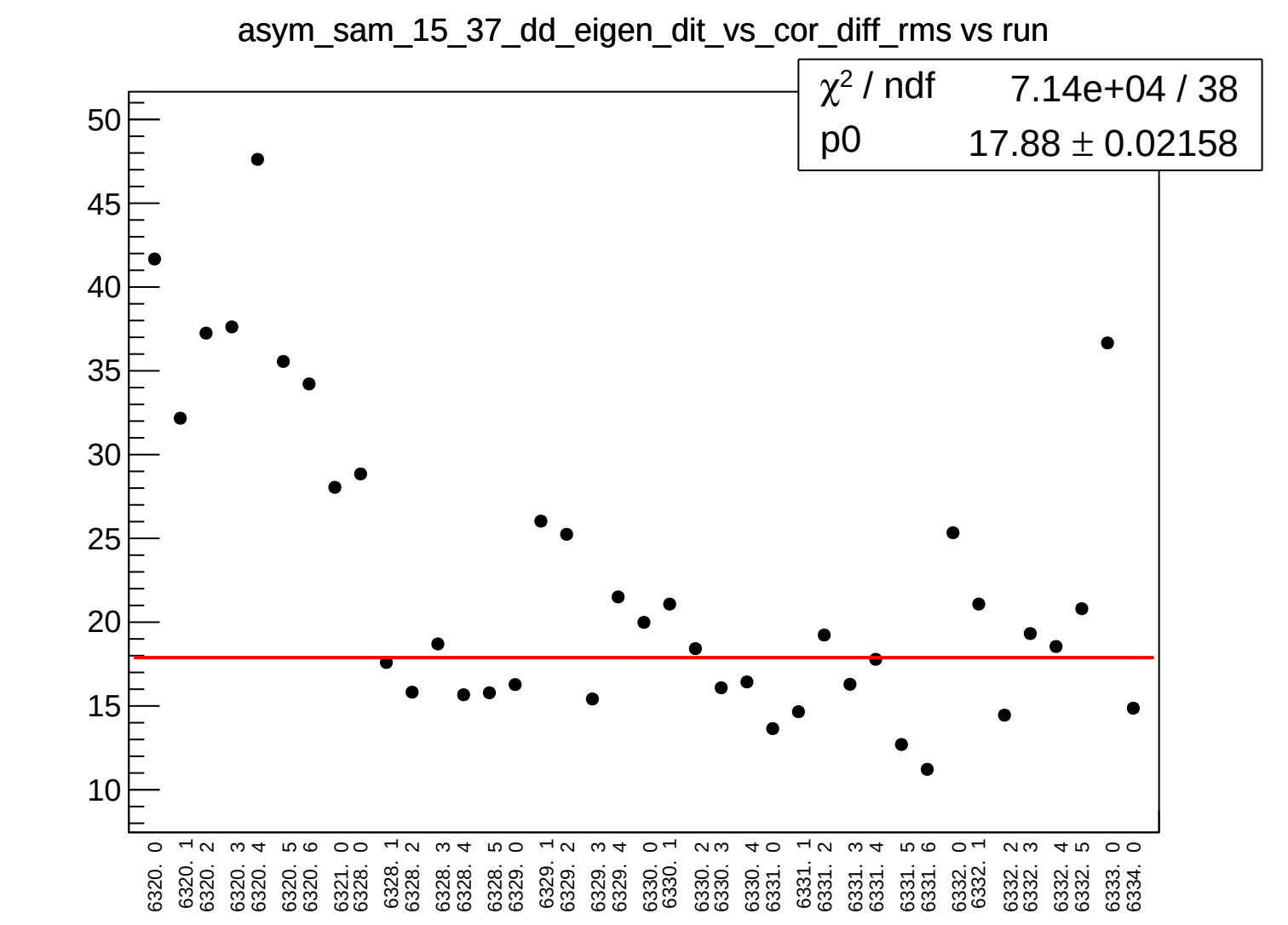

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 0.005192 ± 0.03052
pull
Entries 39
Mean −90.57
Std Dev 0
pull1D
Entries 39
Mean −0.02467
Std Dev 0.9444


asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.141e+04 / 38
p0 17.88 ± 0.02158
50
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.17 / 38
p0 3.829e−07 ± 2.526e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −74.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.04647
Std Dev 0.8334
12
10
8
6
4
2
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 2.012e+04 / 38
p0 0.001535 ± 1.786e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 0.005192 ± 0.03052
pull
Entries 39
Mean −90.57
Std Dev 0
pull1D
Entries 39
Mean −0.02467
Std Dev 0.9444


asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.14e+04 / 38
p0 17.88 ± 0.02158
50
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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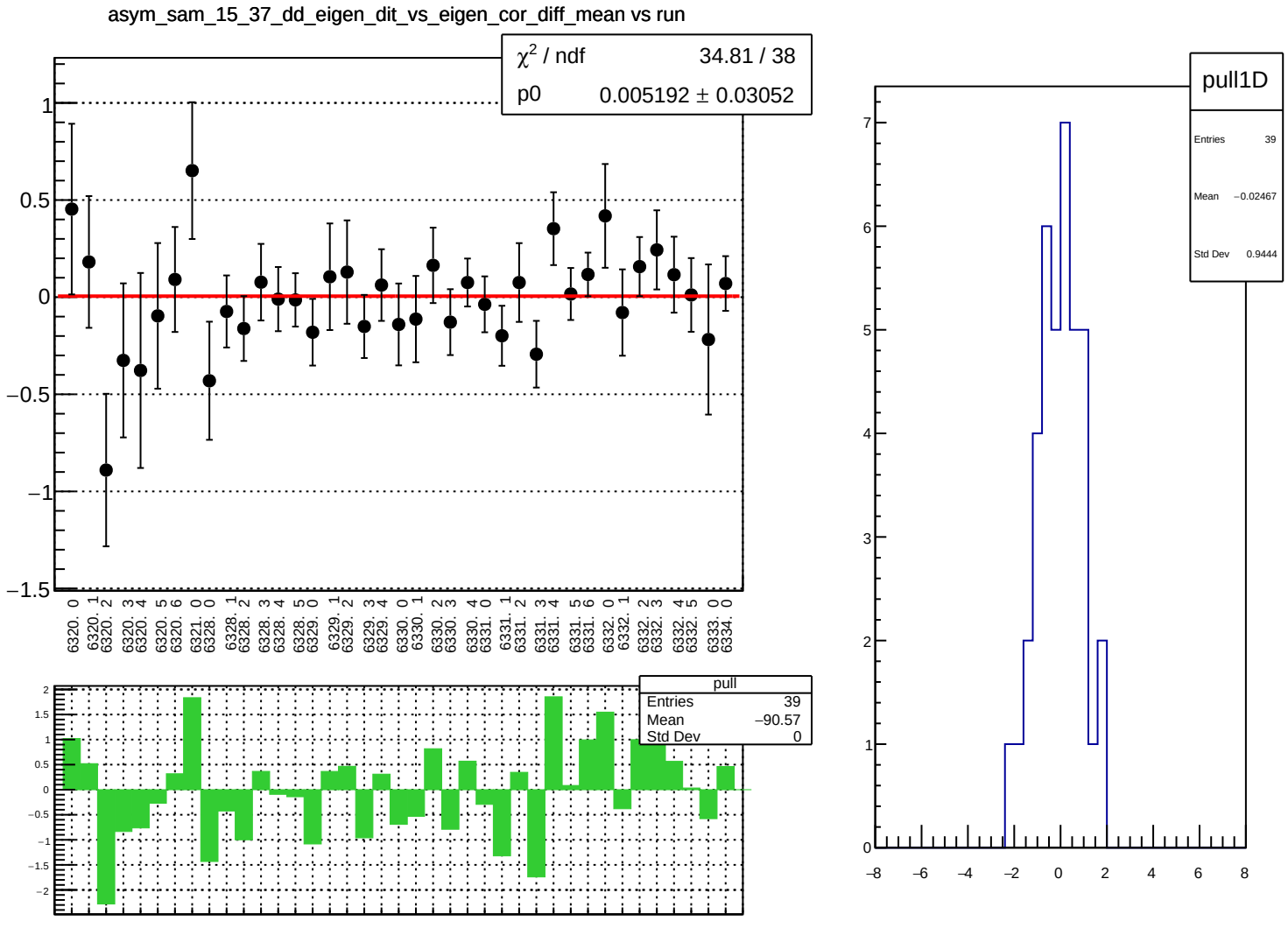
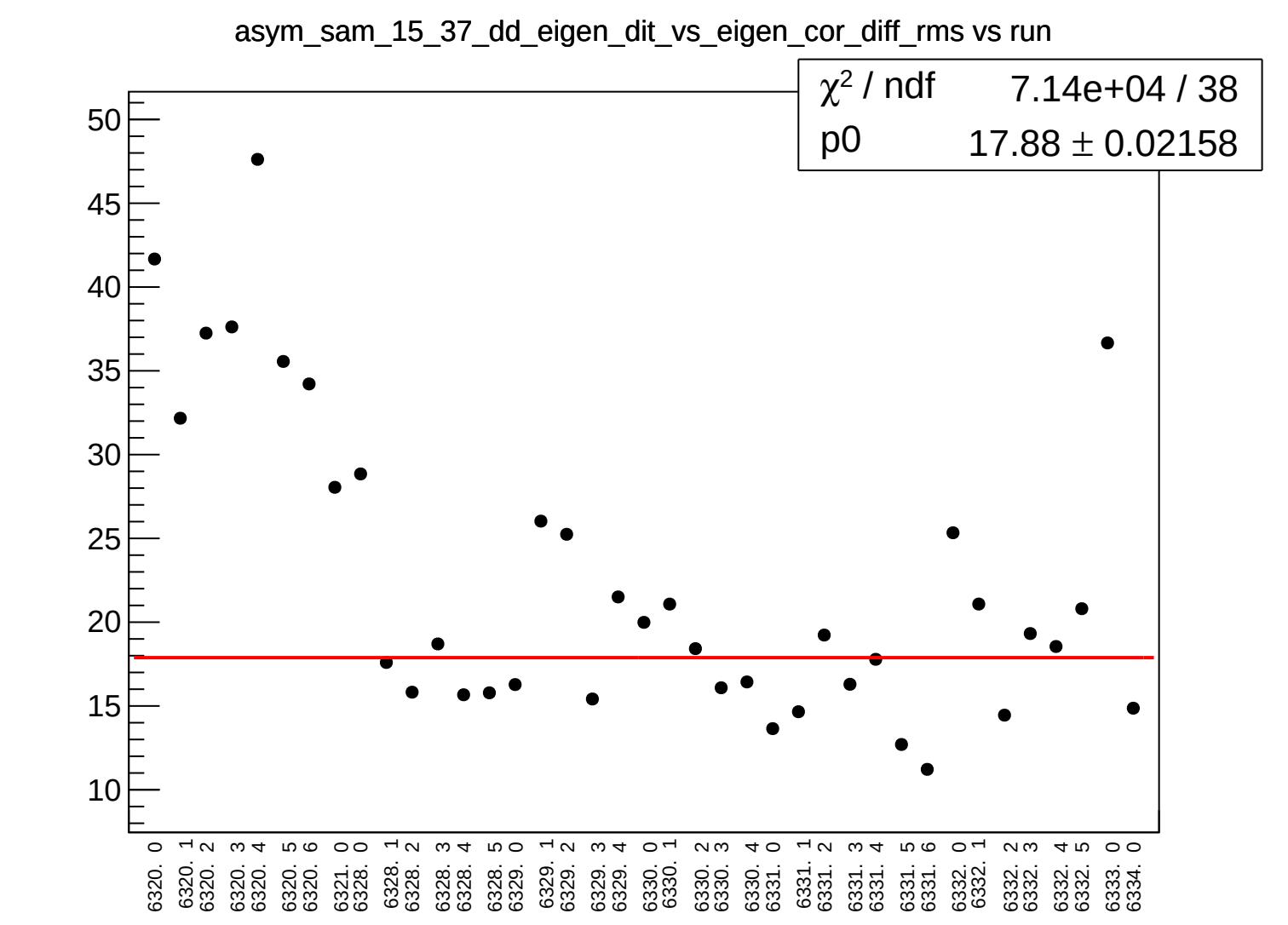
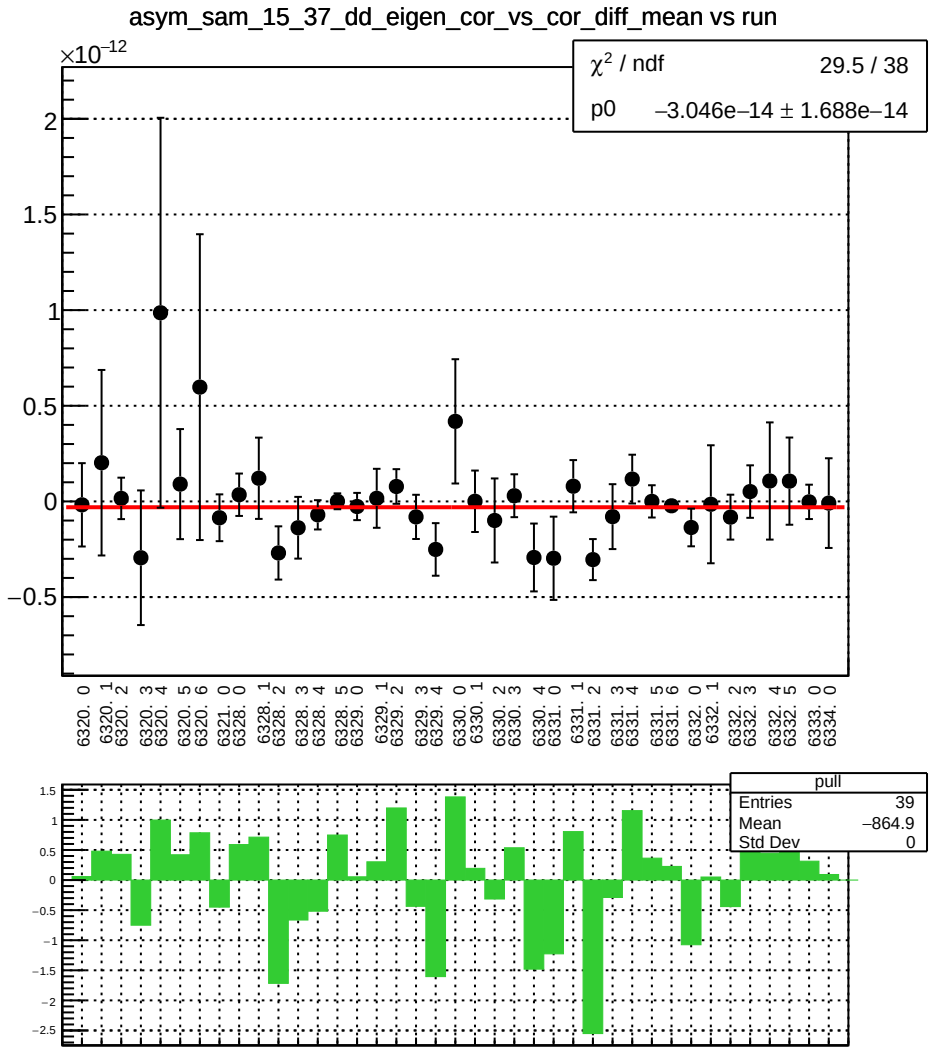
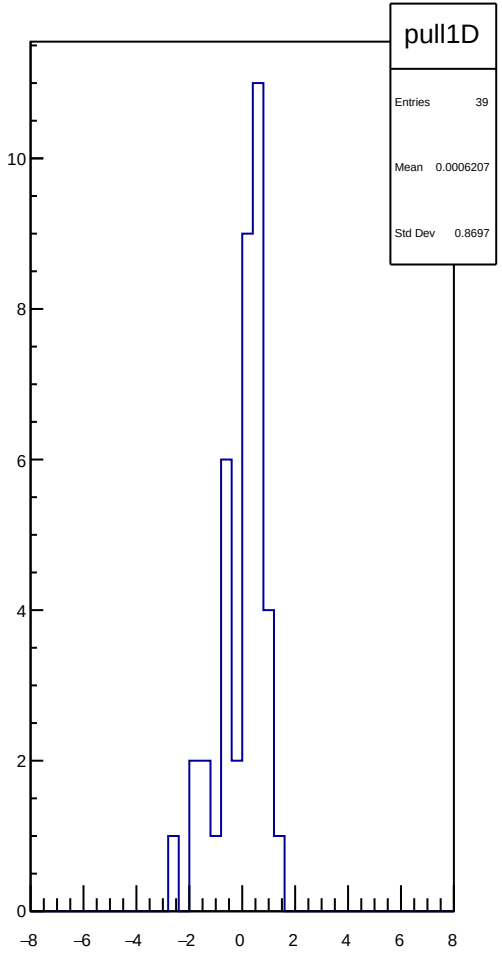
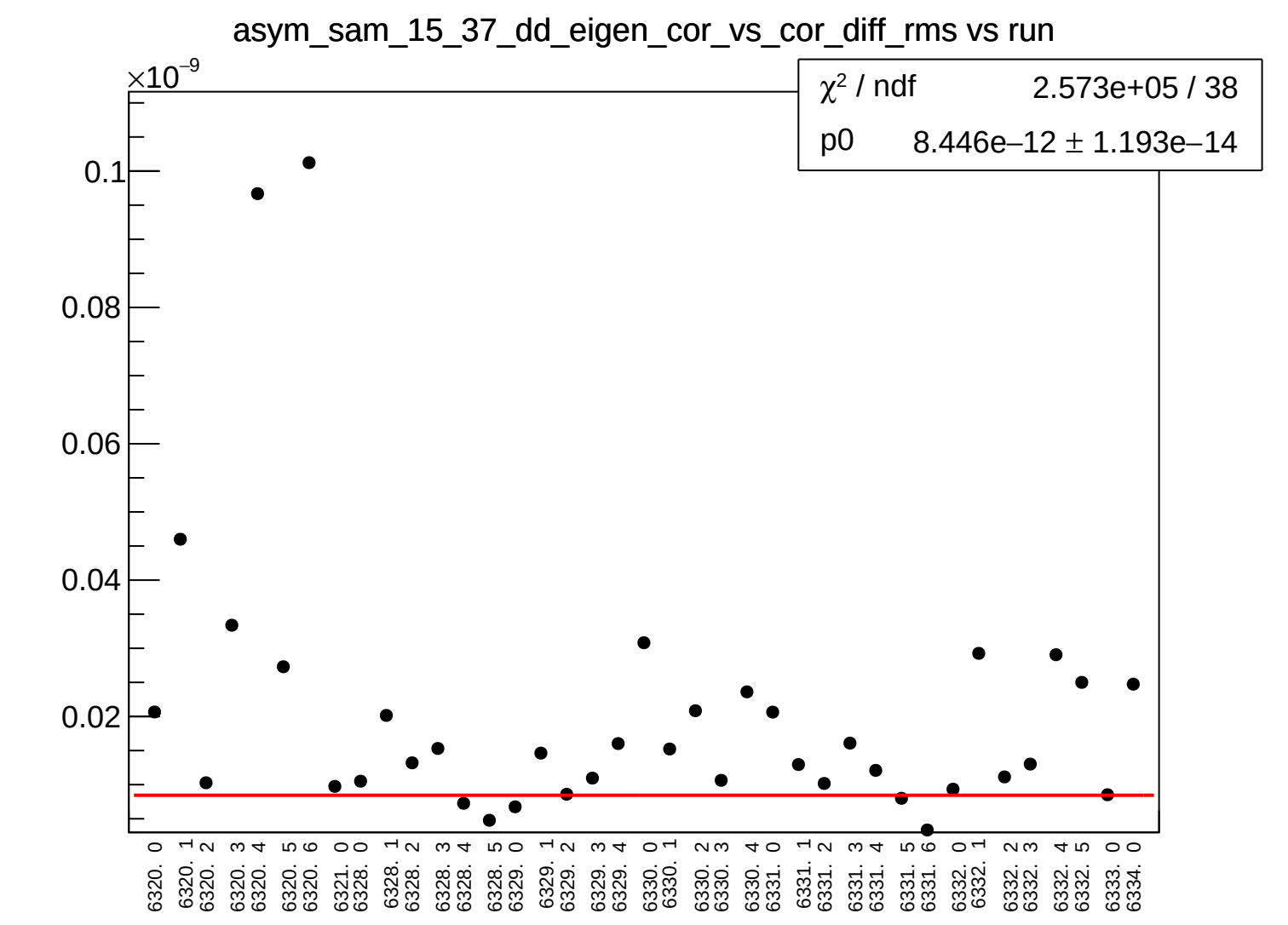
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

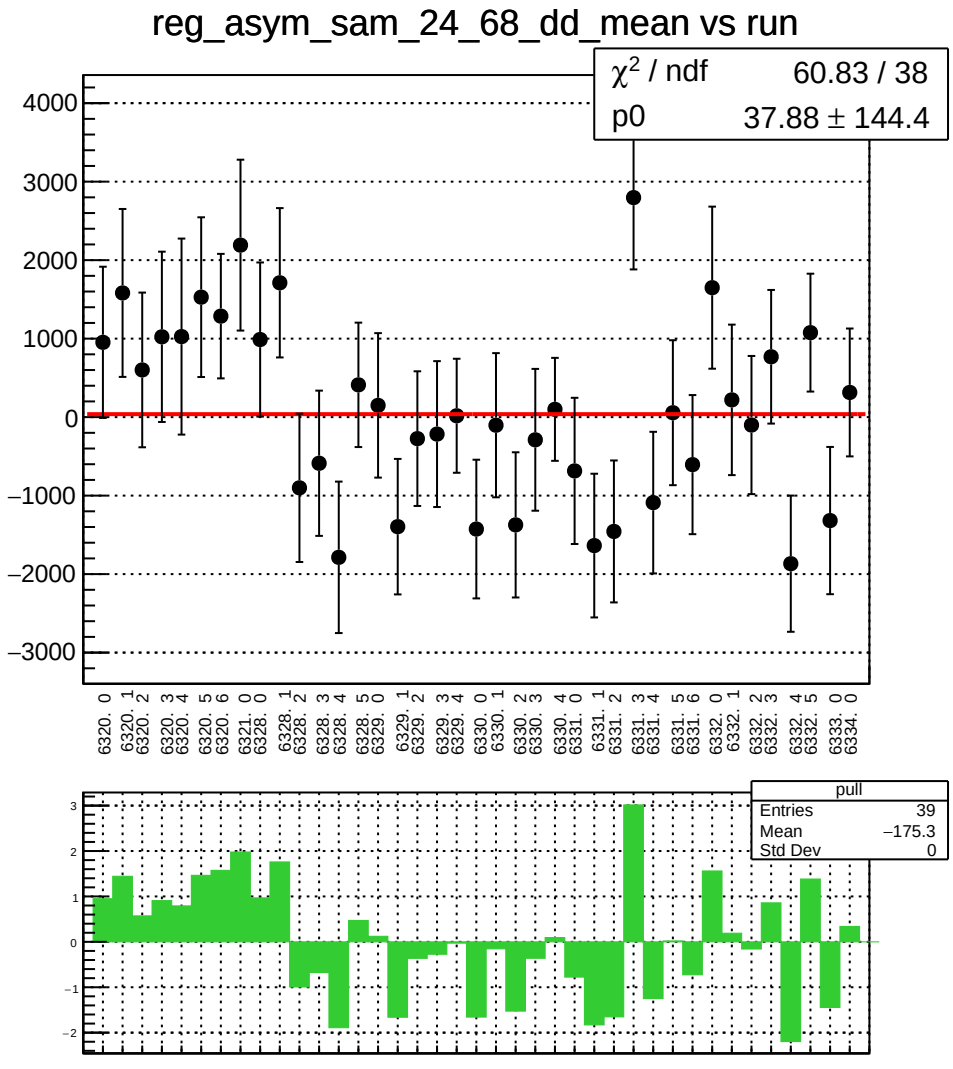

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.81 / 38
p0 0.005192 ± 0.03052
pull
Entries 39
Mean −90.57
Std Dev 0
pull1D
Entries 39
Mean −0.02467
Std Dev 0.9444

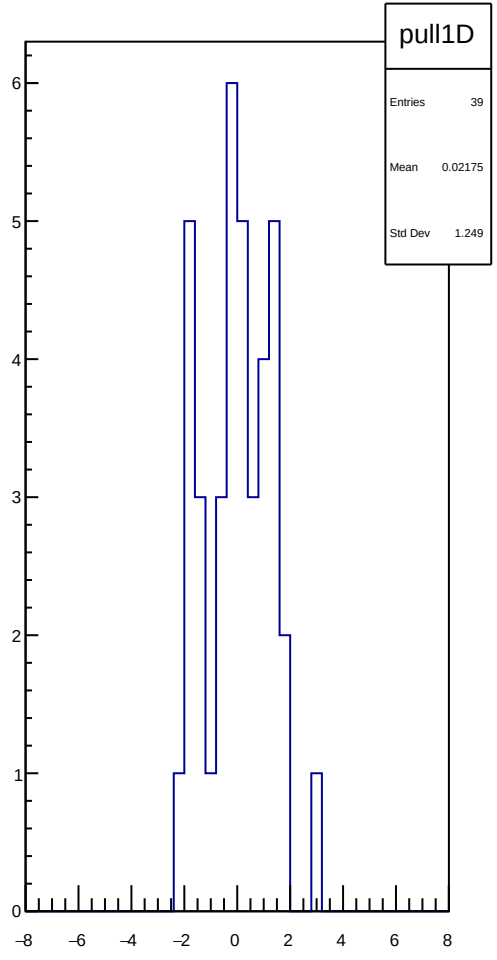

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.14e+04 / 38
p0 17.88 ± 0.02158
50
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

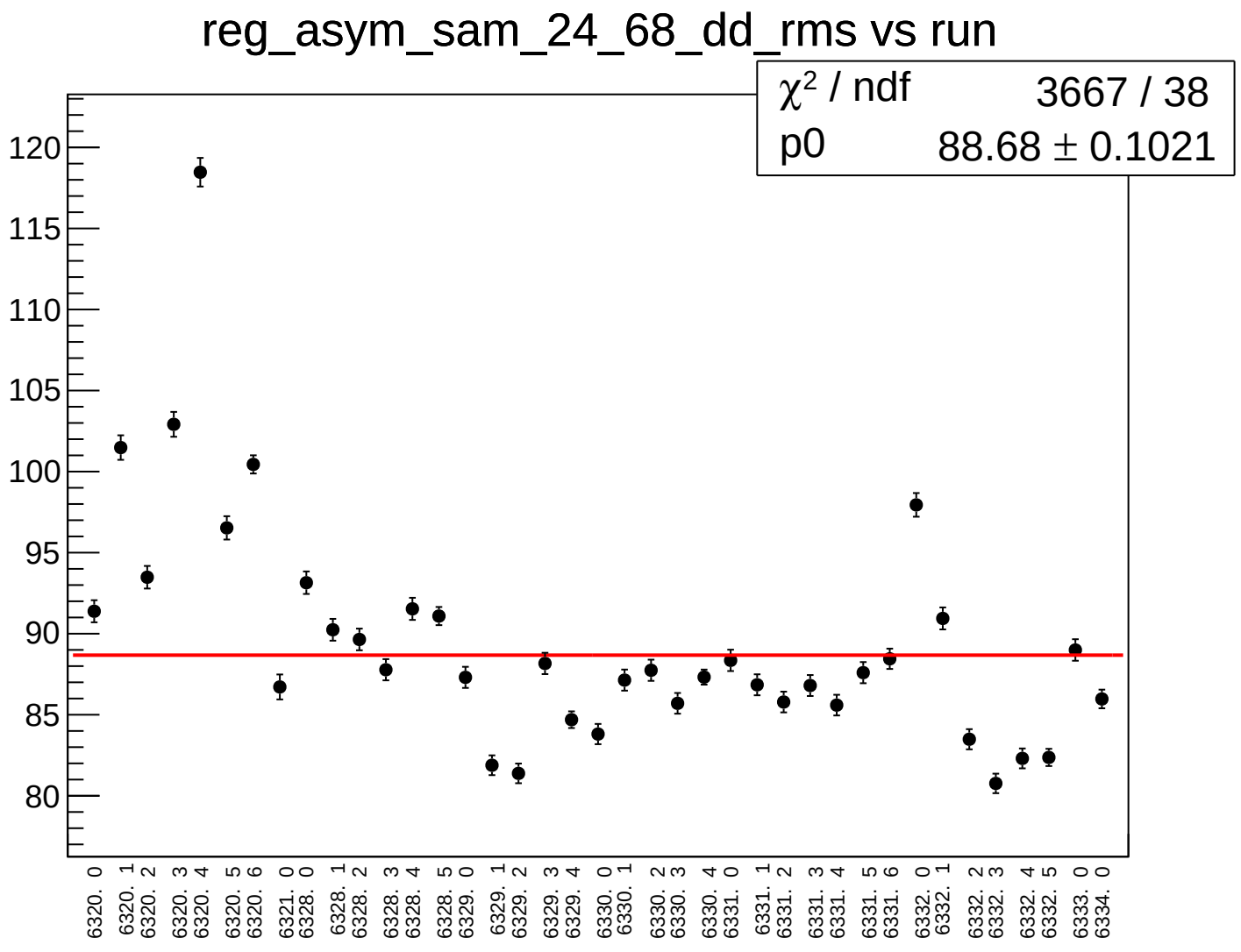

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.5 / 38
p0 −3.046e−14 ± 1.688e−14
2
1.5
1
0.5
0
−0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −864.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

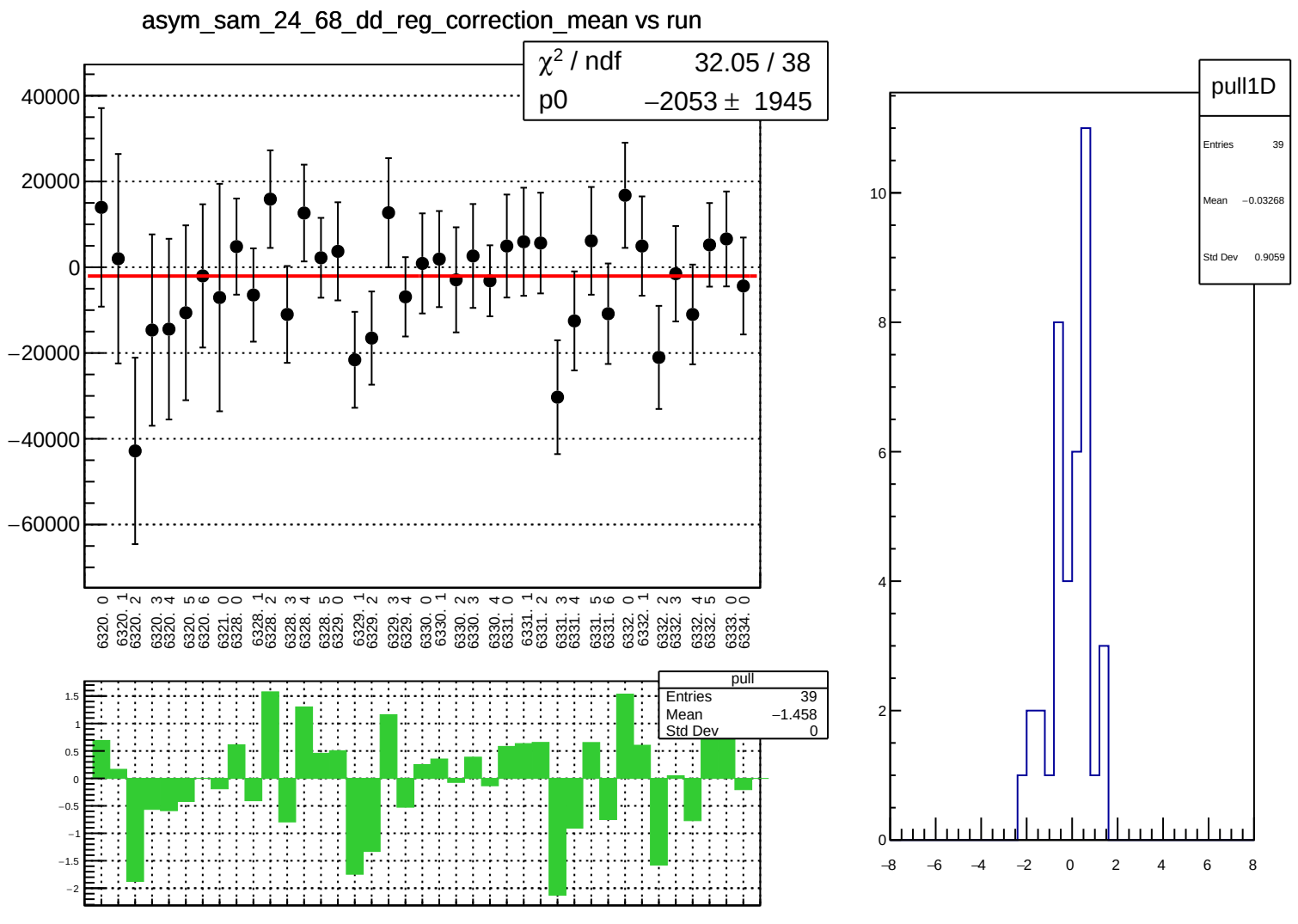

pull1D
Entries 39
Mean 0.0006207
Std Dev 0.8697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

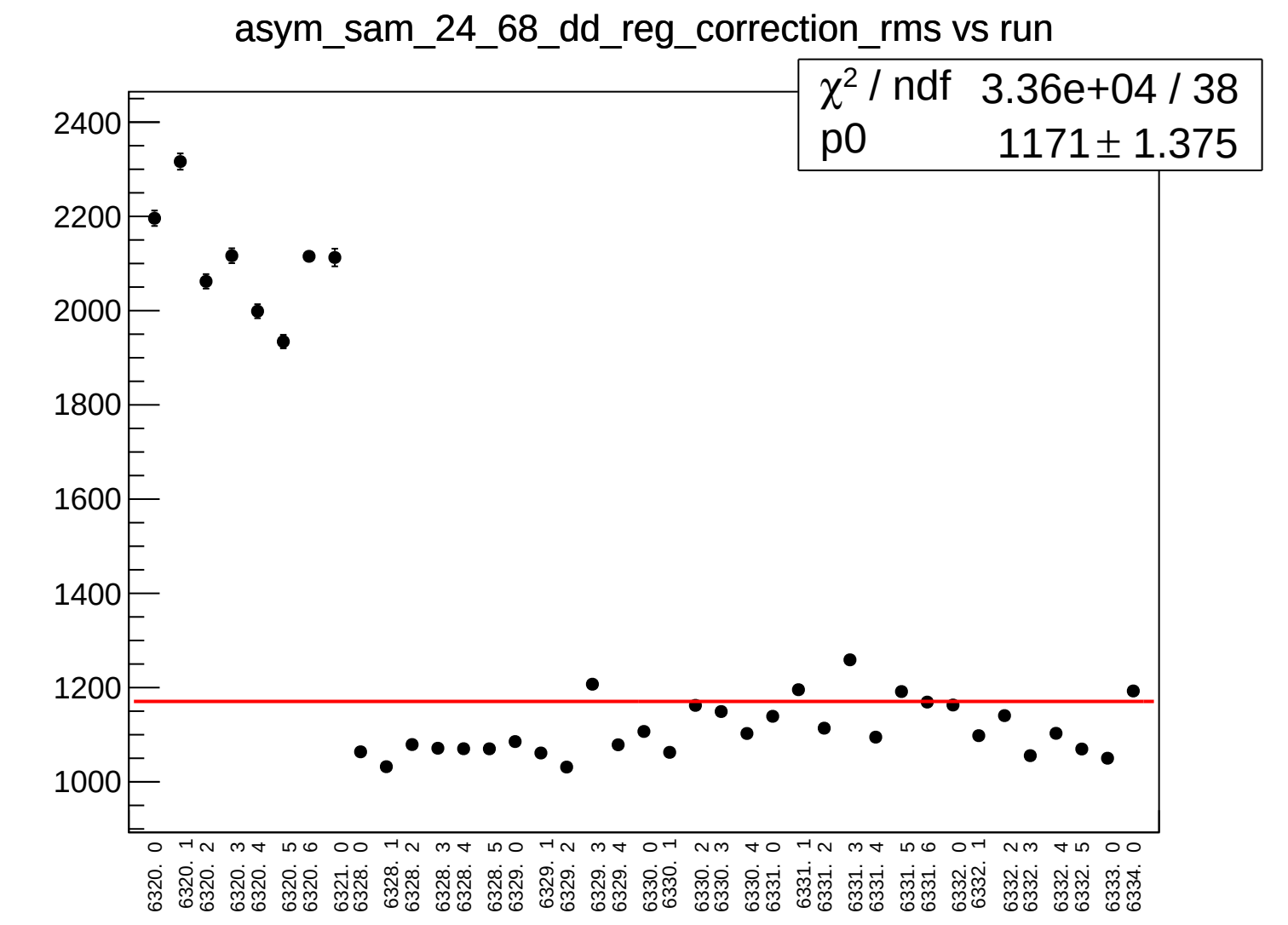

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.573e+05 / 38
p0 8.446e−12 ± 1.193e−14
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

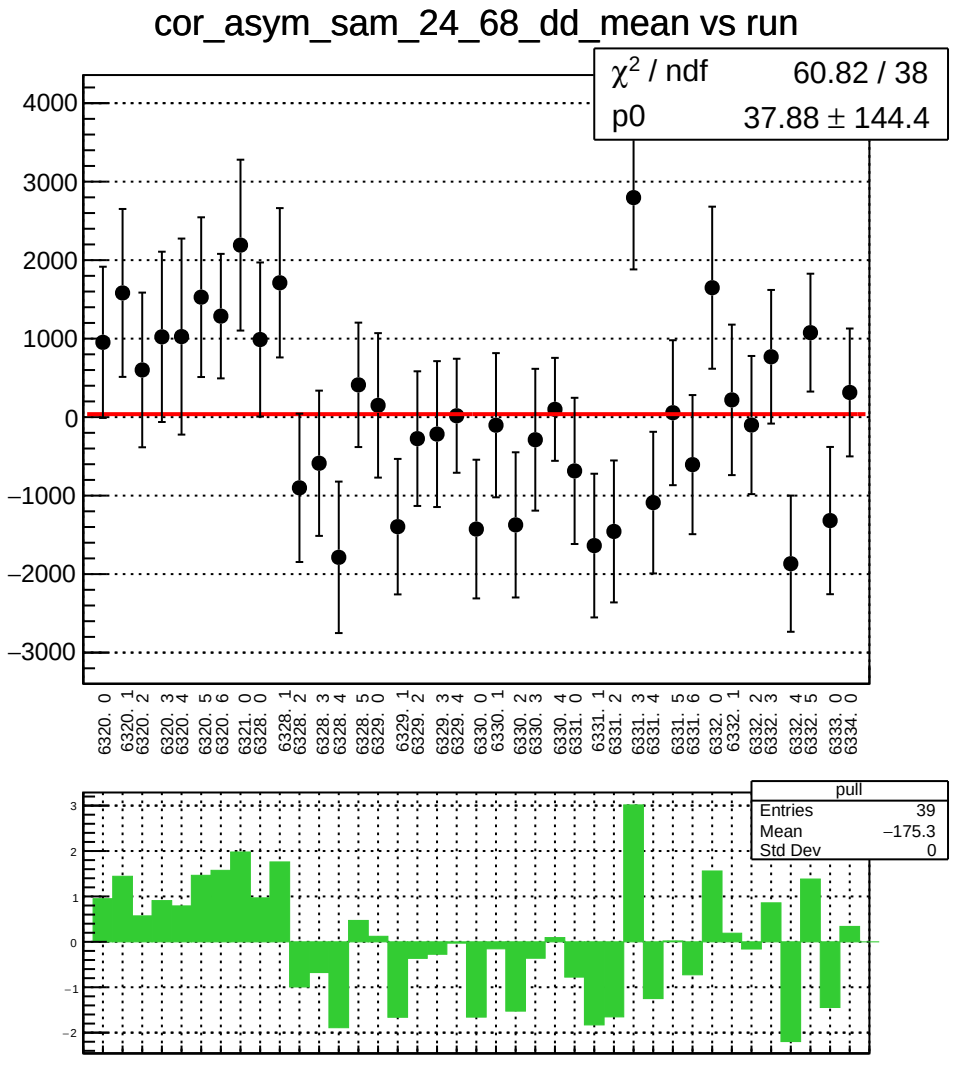

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 60.83 / 38
p0 37.88 ± 144.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −175.3
Std Dev 0
3
2
1
0
−1
−2

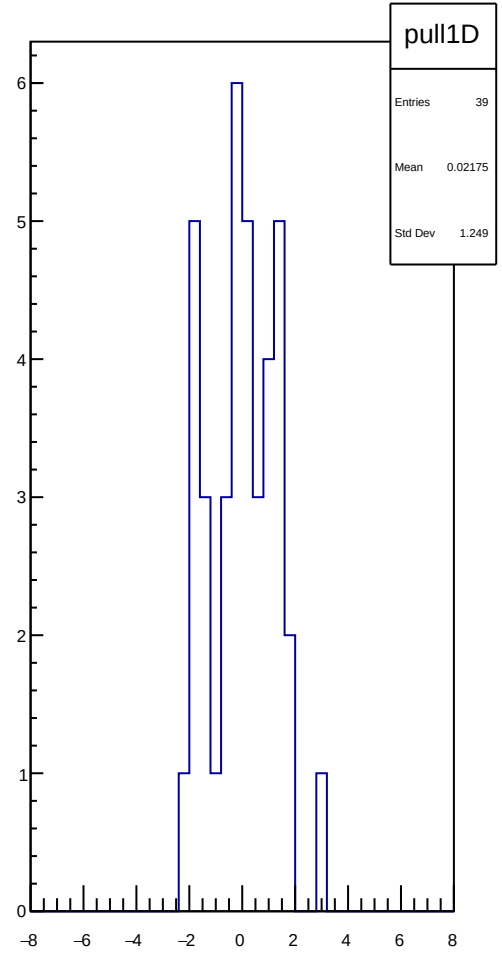

pull1D
Entries 39
Mean 0.02175
Std Dev 1.249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

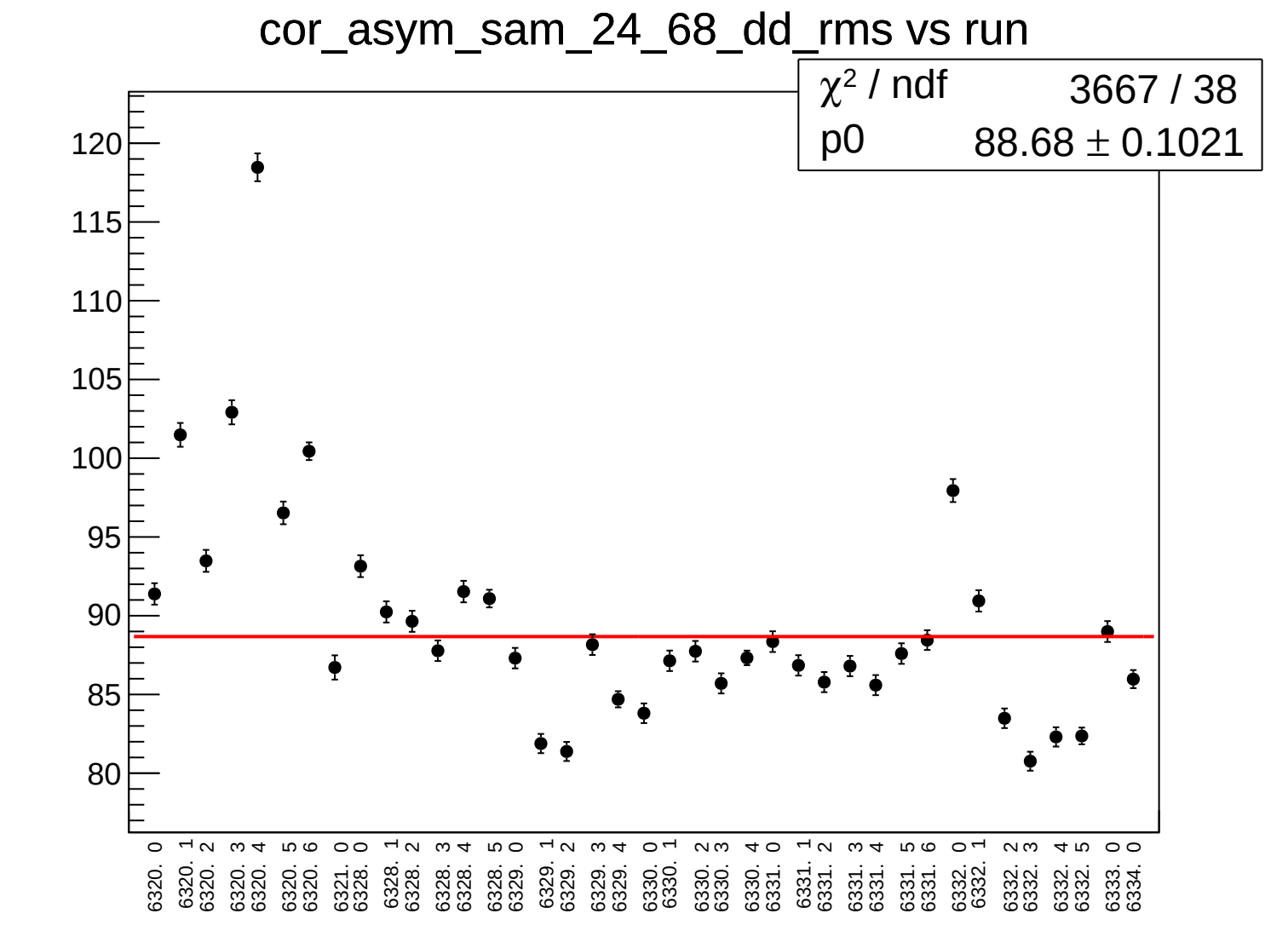

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3667 / 38
p0 88.68 ± 0.1021
120
115
110
105
100
95
90
85
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

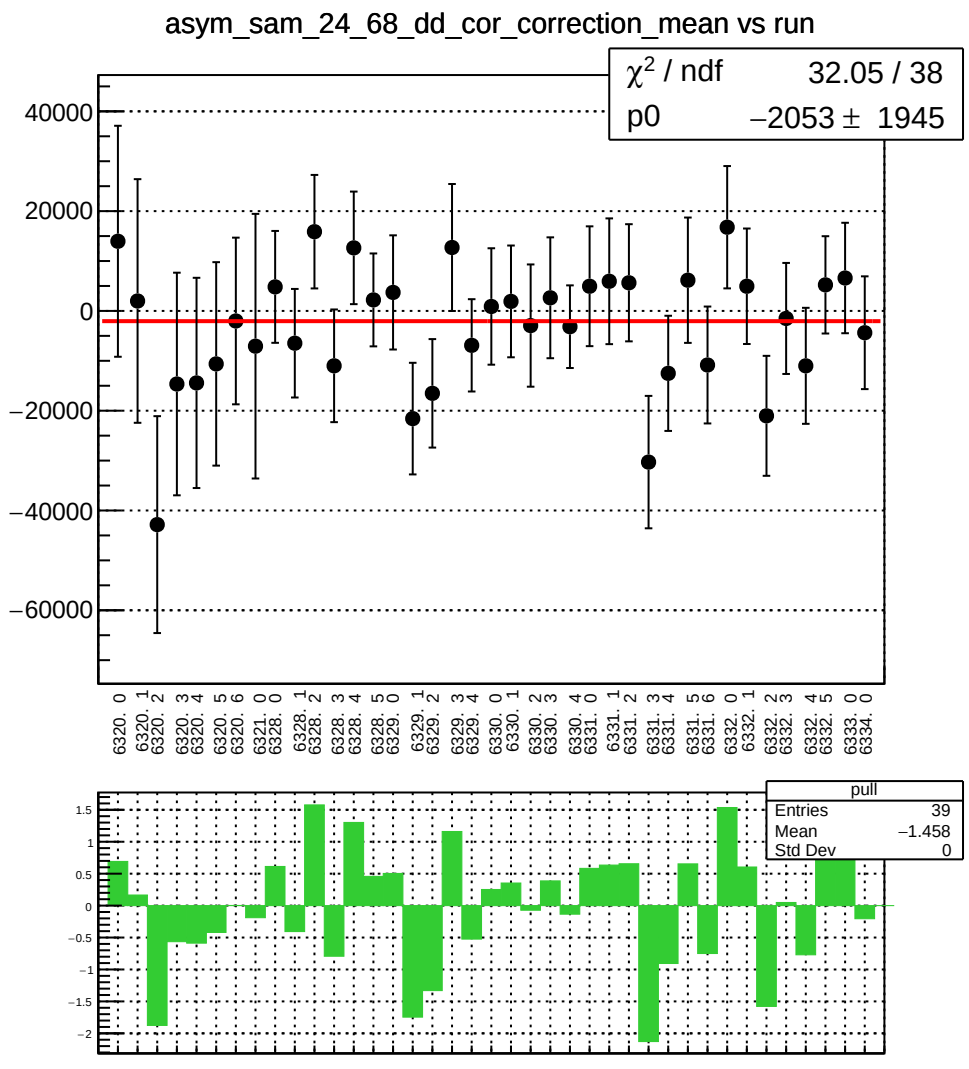

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 32.05 / 38
p0 −2053 ± 1945
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.458
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03268
Std Dev 0.9059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

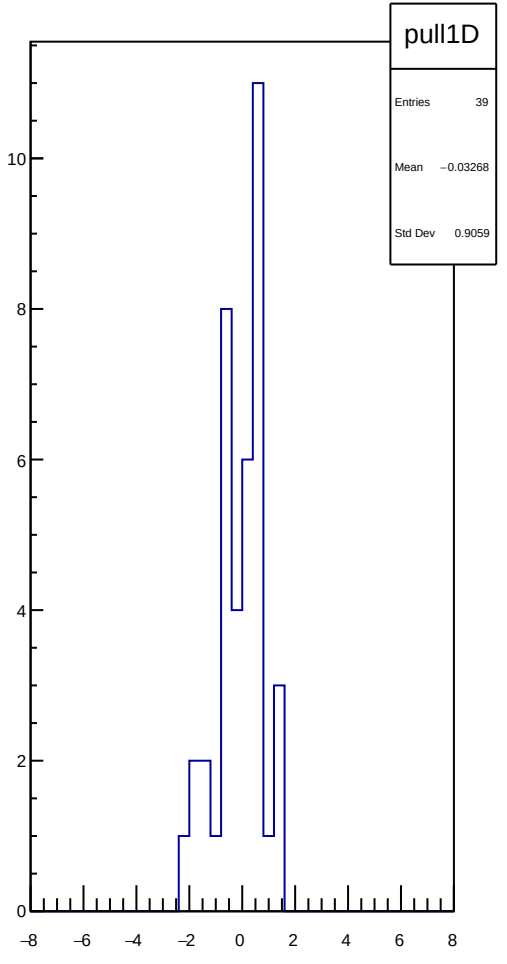

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3.36e+04 / 38
p0 1171 ± 1.375
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

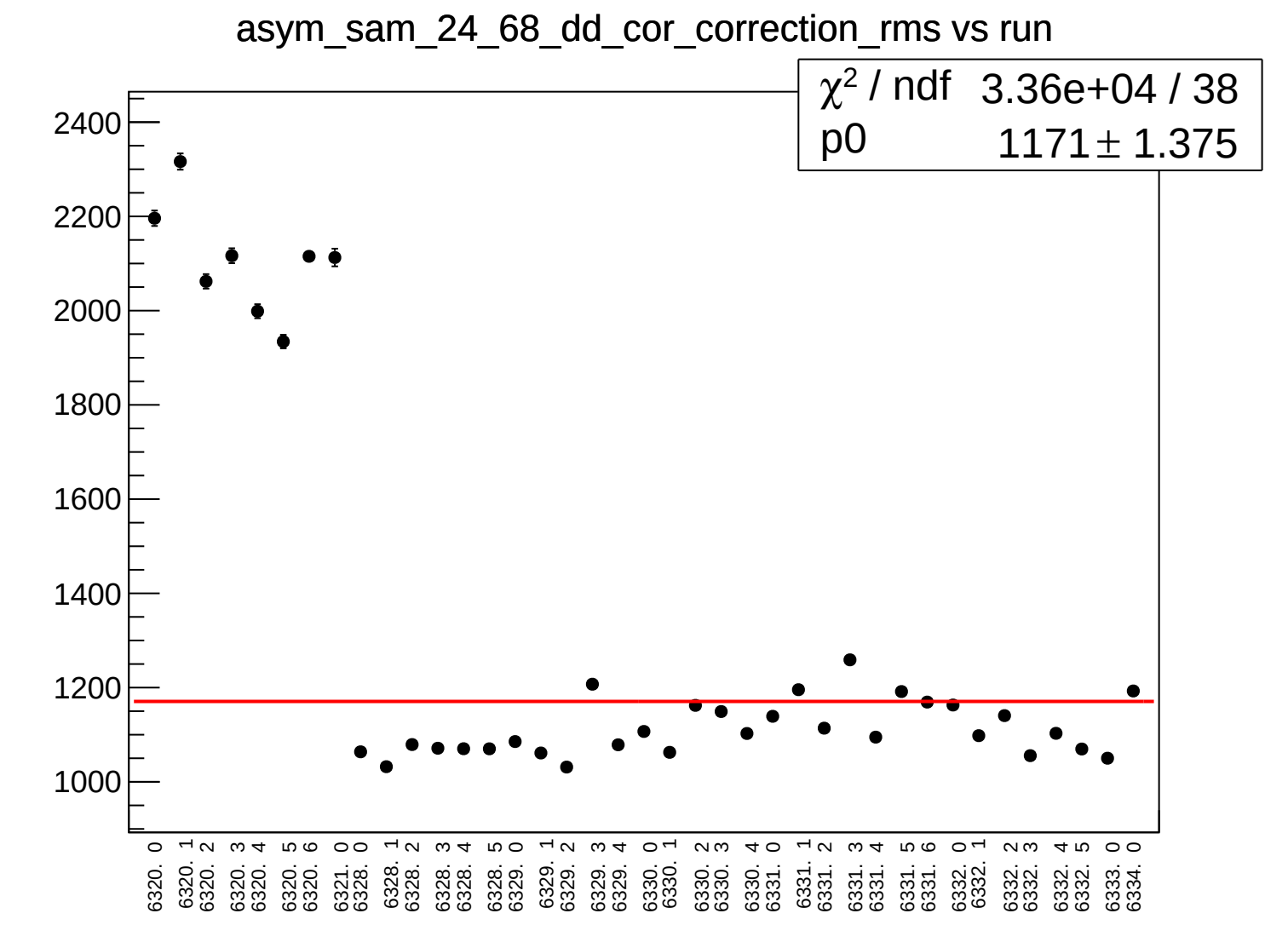

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 60.82 / 38
p0 37.88 ± 144.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −175.3
Std Dev 0
3
2
1
0
−1
−2

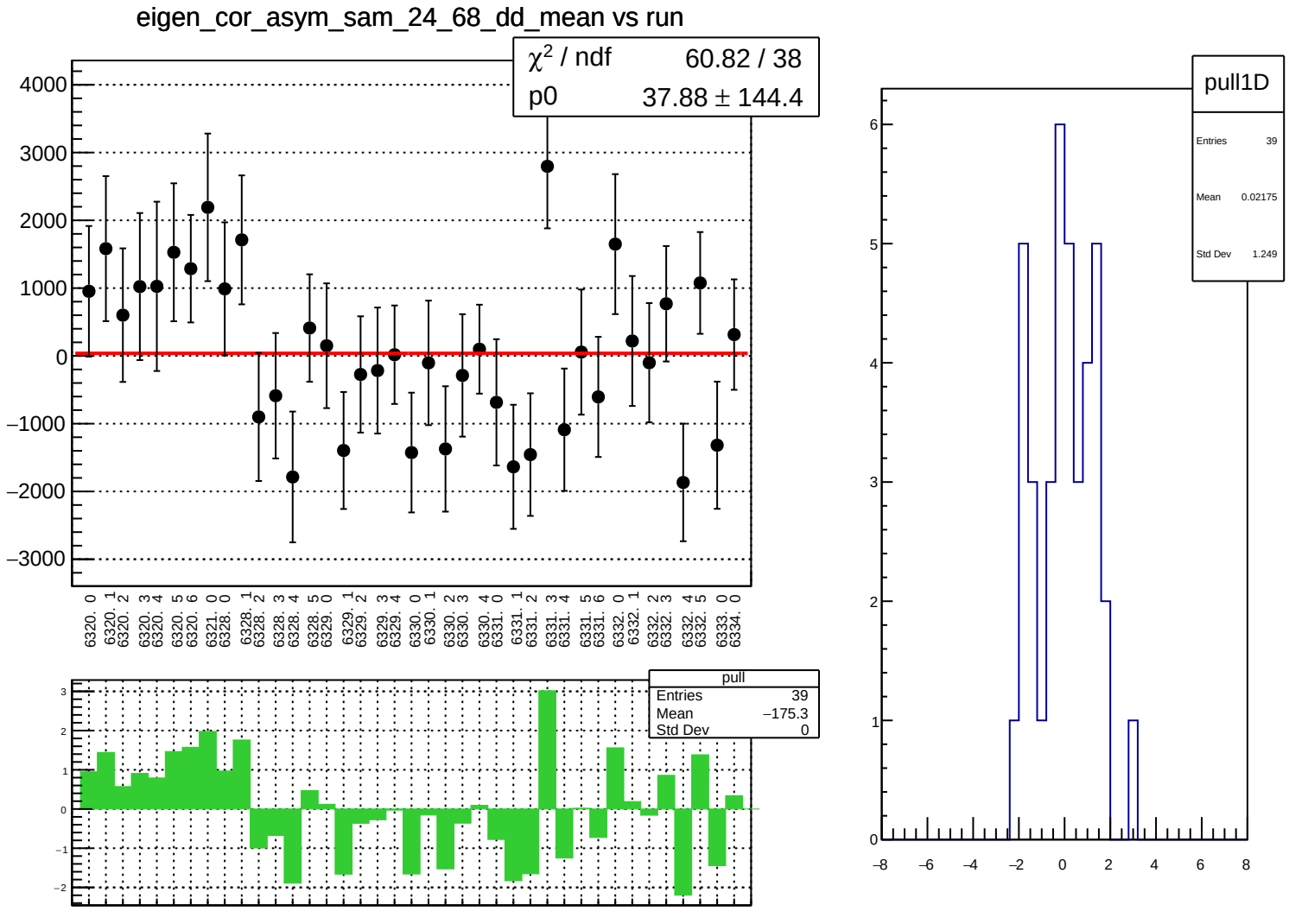

pull1D
Entries 39
Mean 0.02175
Std Dev 1.249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

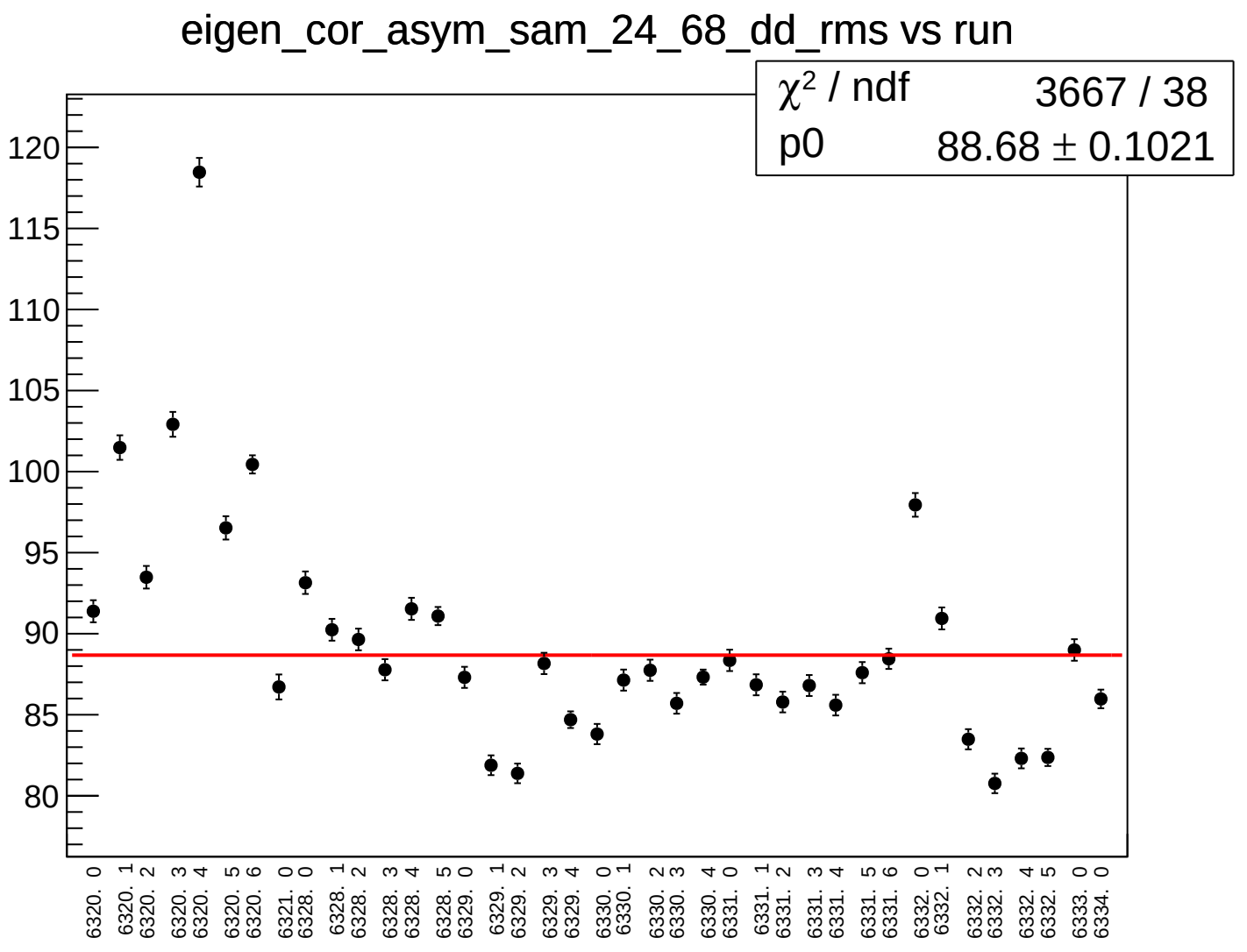

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3667 / 38
p0 88.68 ± 0.1021
120
115
110
105
100
95
90
85
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

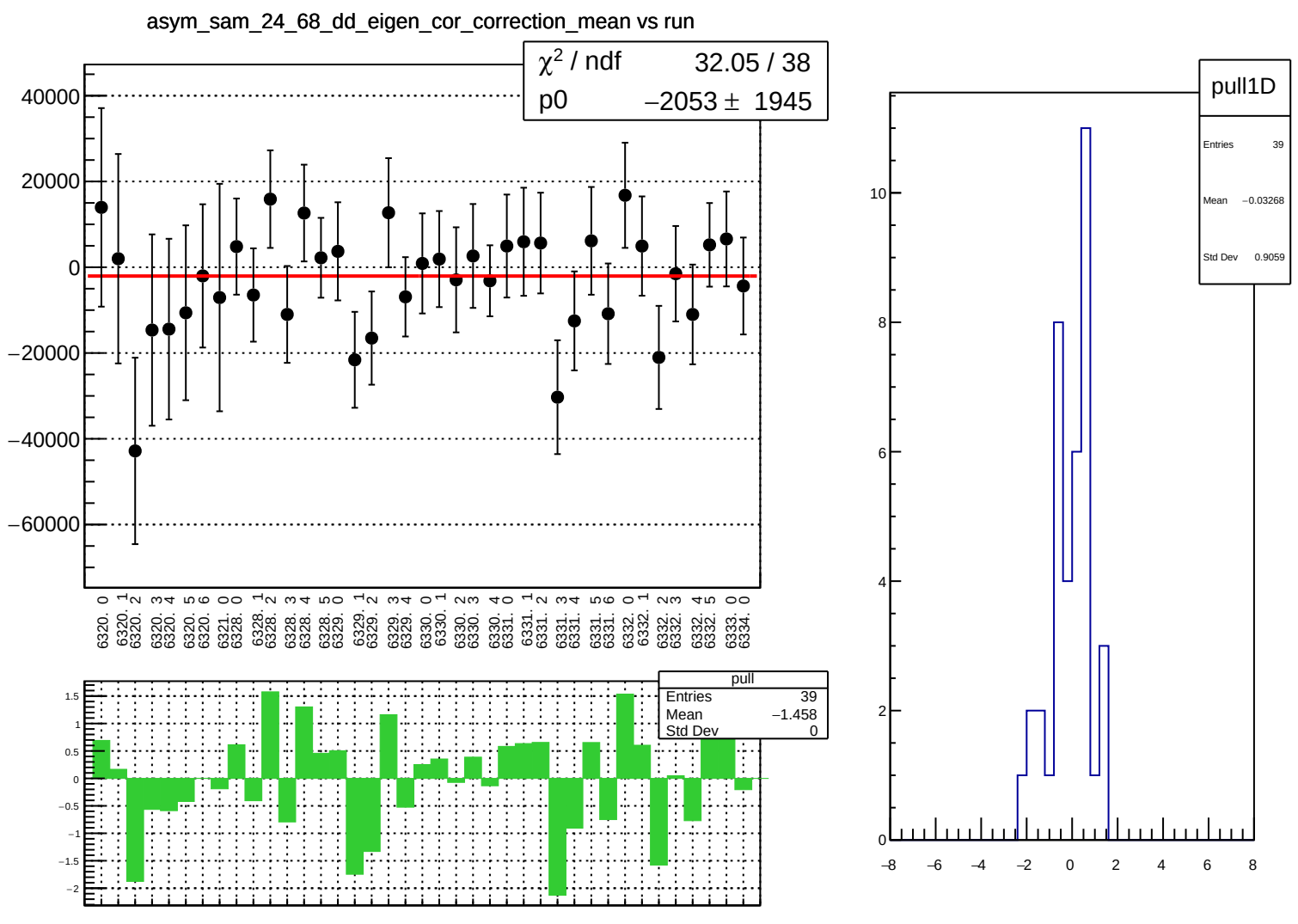

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 32.05 / 38
p0 −2053 ± 1945
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.458
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

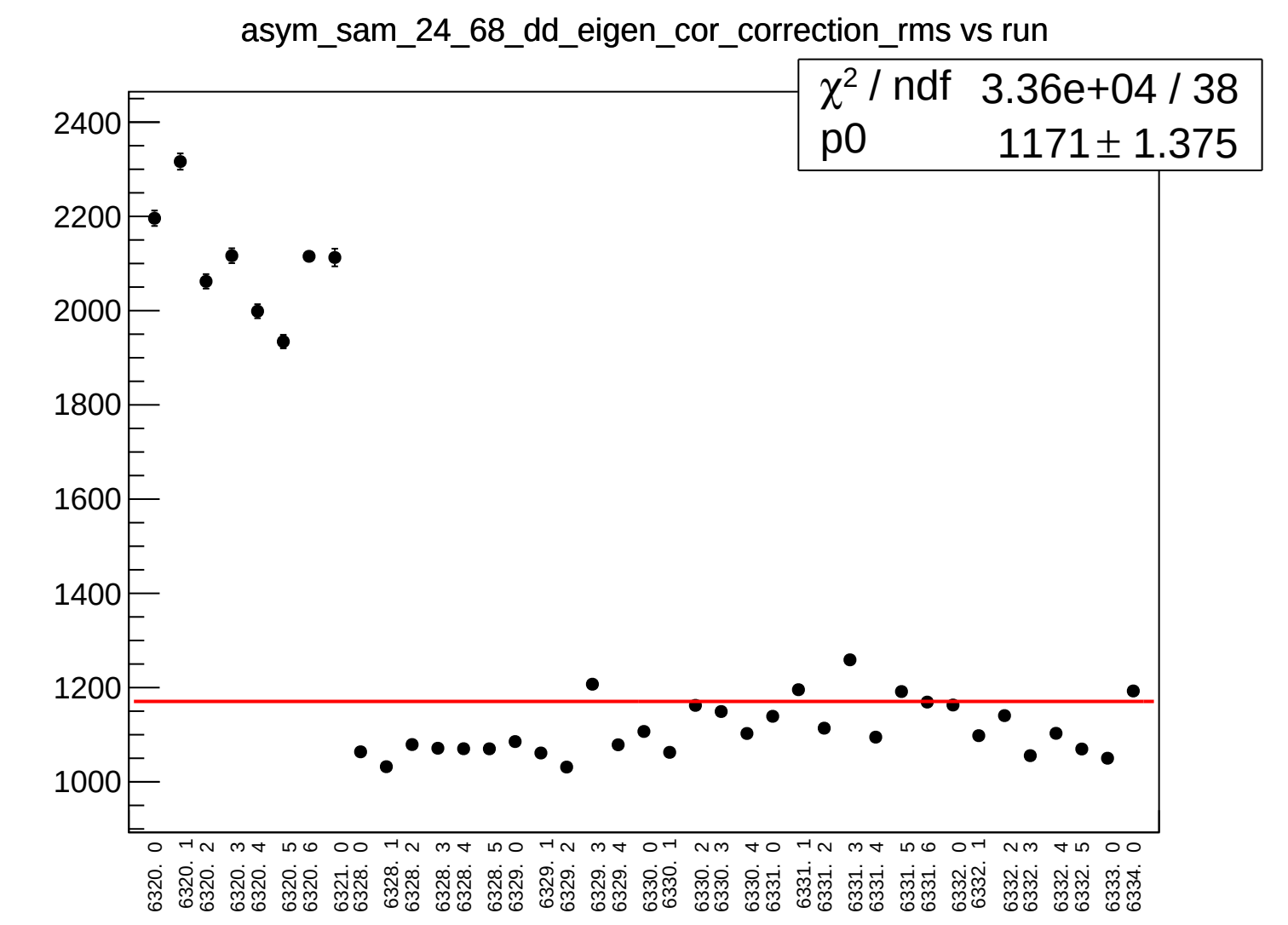

pull1D
Entries 39
Mean −0.03268
Std Dev 0.9059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

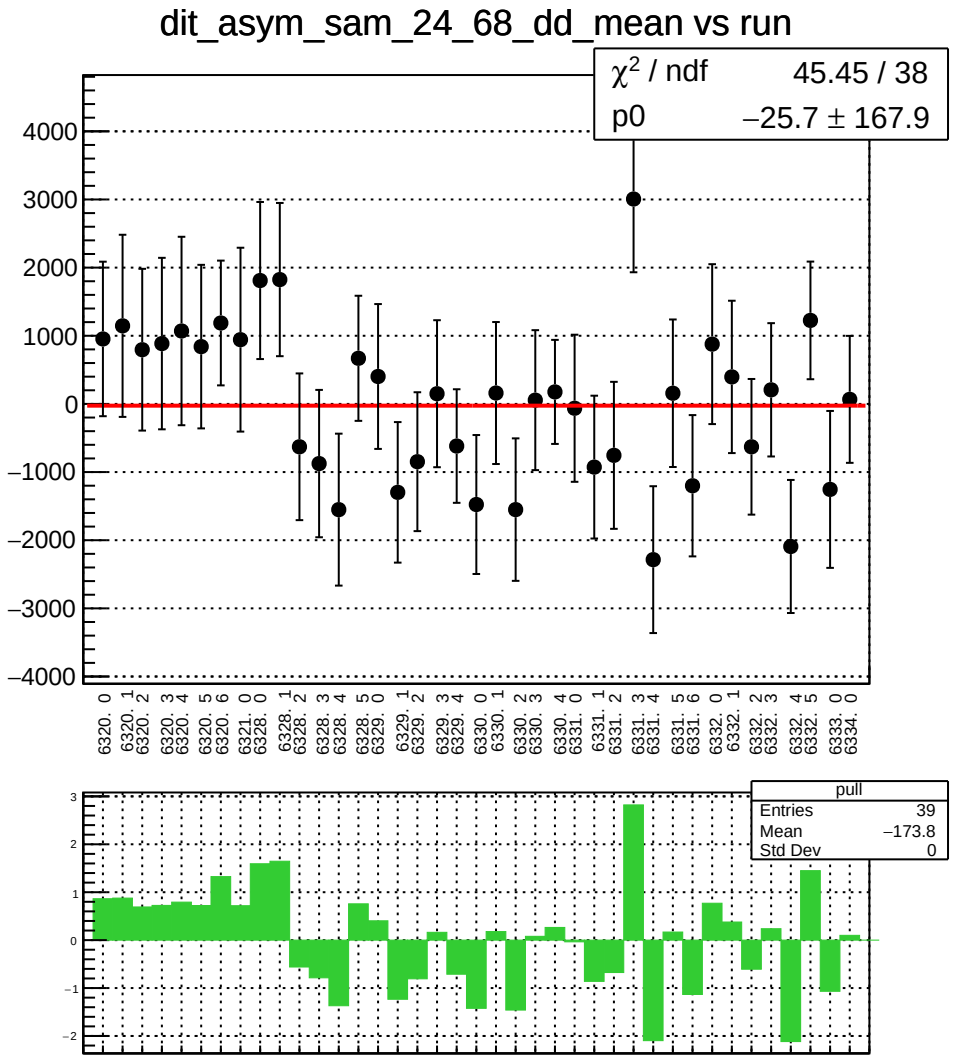

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3.36e+04 / 38
p0 1171 ± 1.375
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

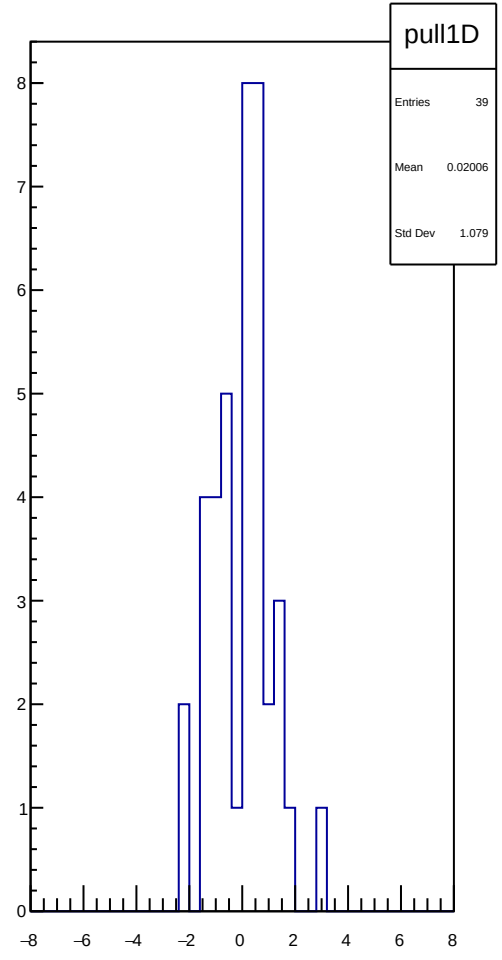

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 60.82 / 38
p0 37.88 ± 144.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −175.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02175
Std Dev 1.249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

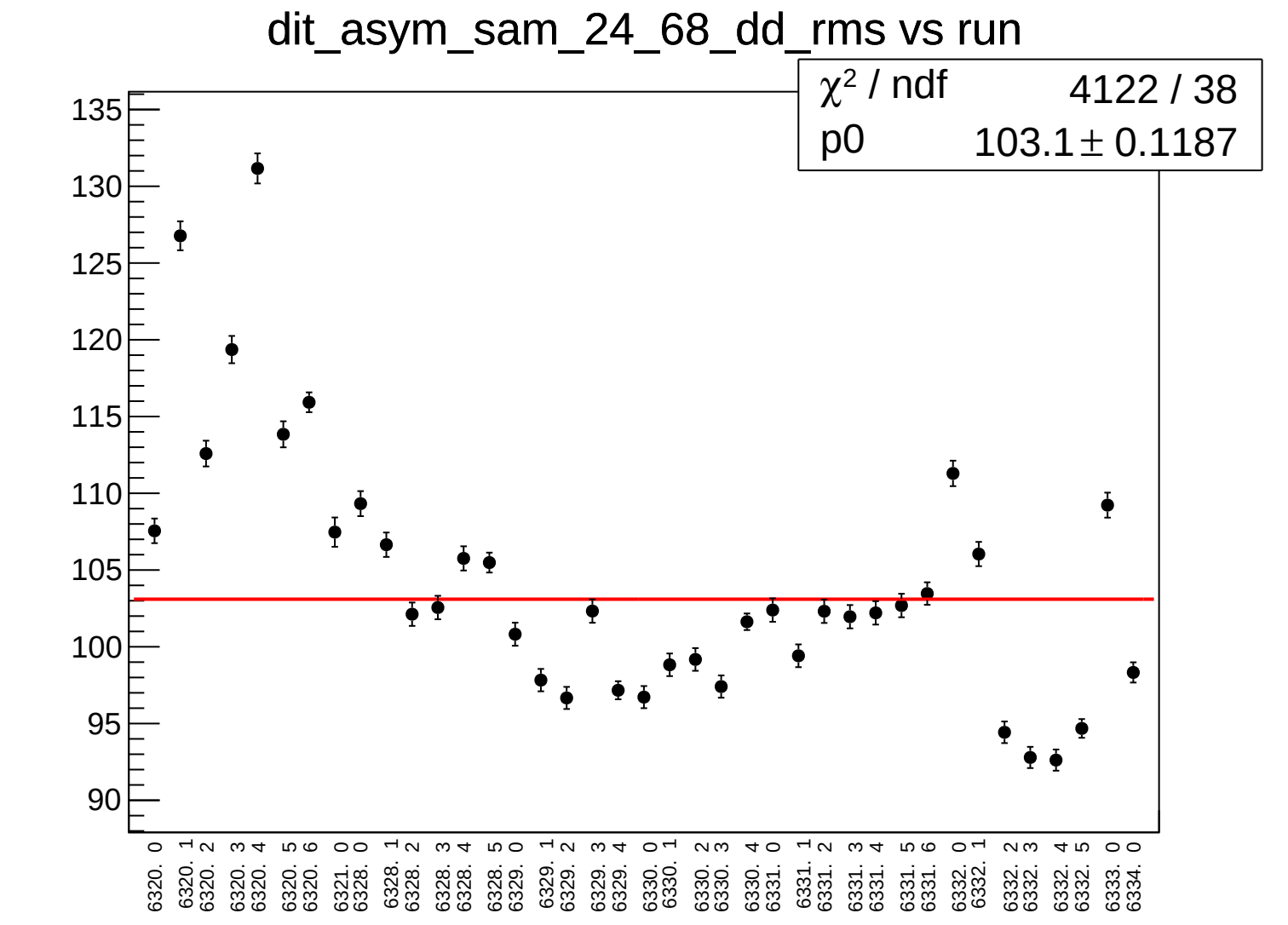

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3667 / 38
p0 88.68 ± 0.1021
120
115
110
105
100
95
90
85
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

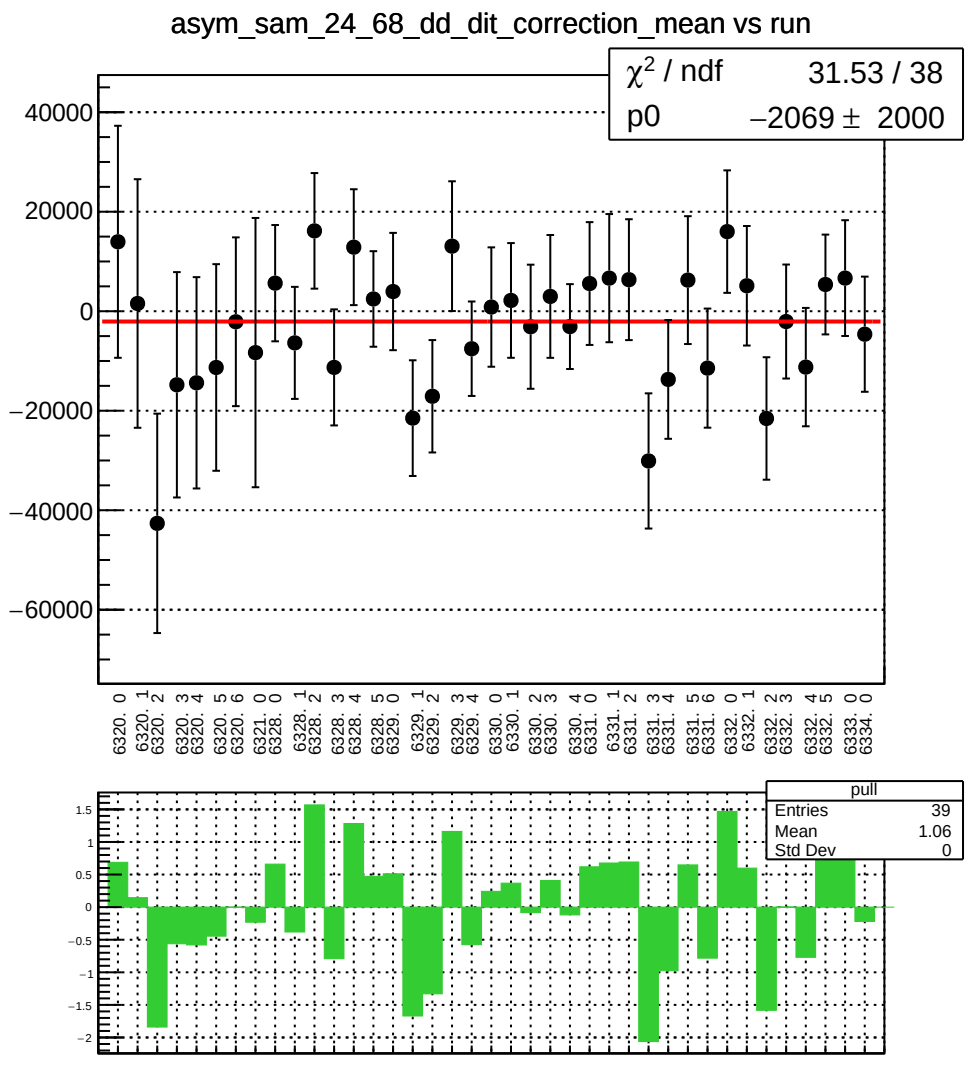

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.05 / 38
p0 −2053 ± 1945
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.458
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03268
Std Dev 0.9059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

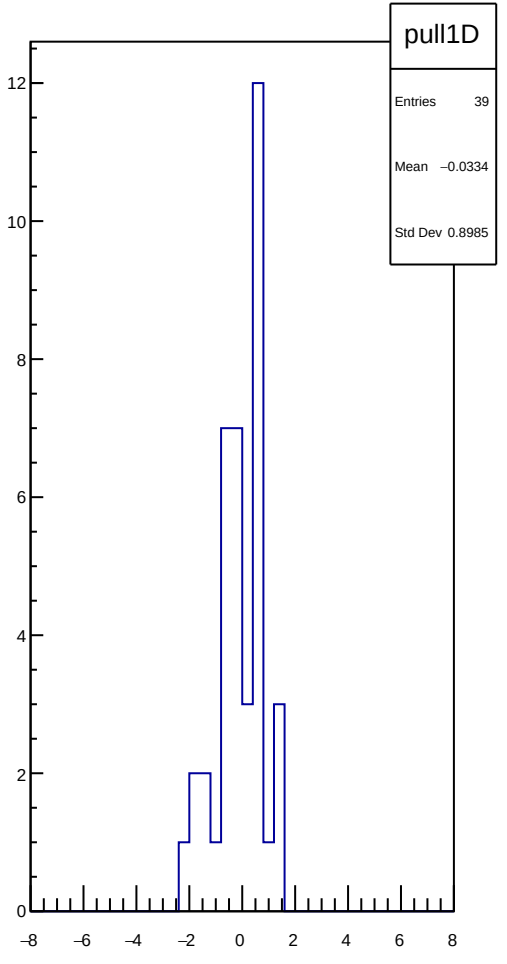

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.36e+04 / 38
p0 1171 ± 1.375
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

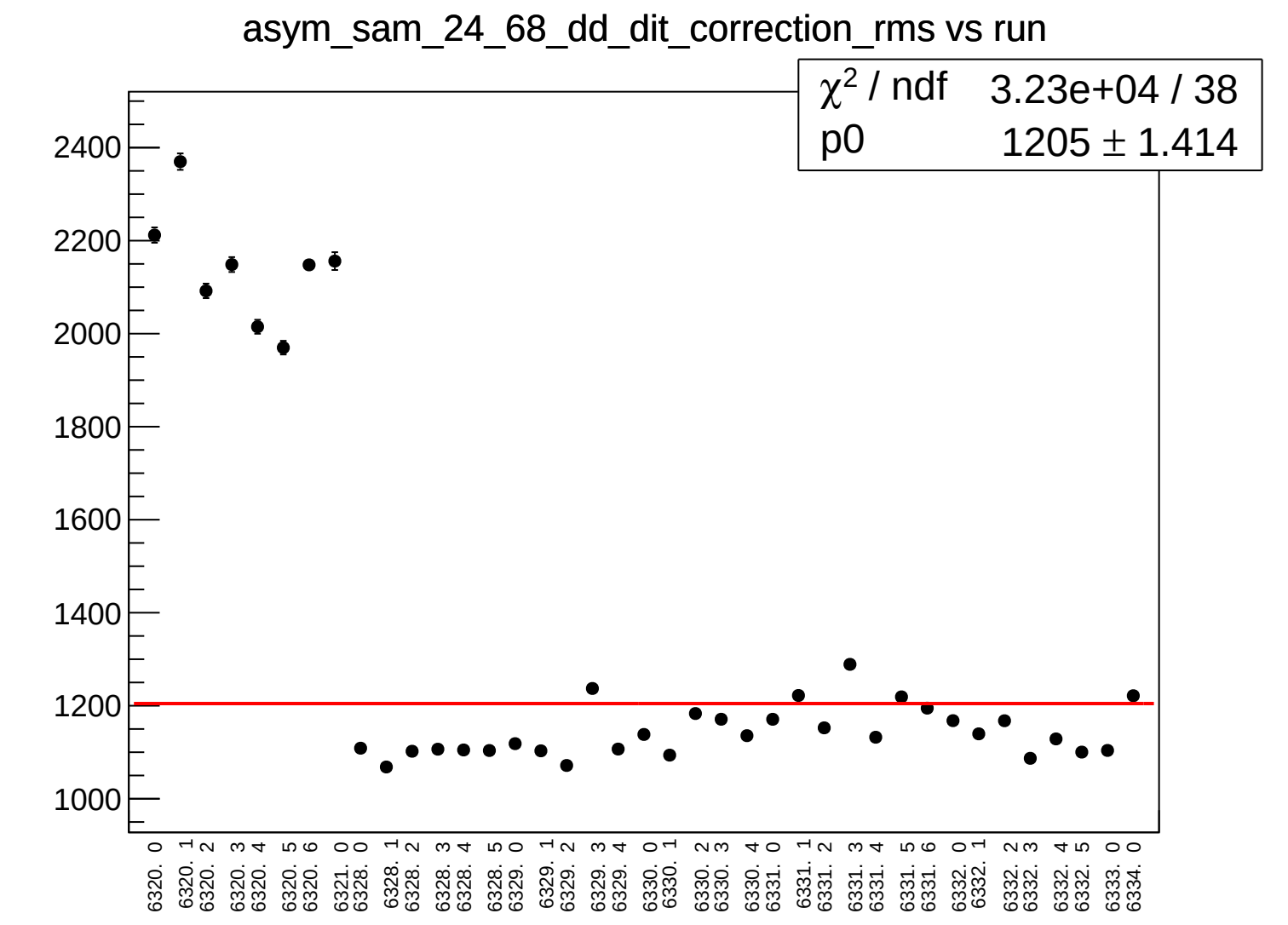

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 45.45 / 38
p0 −25.7 ± 167.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −173.8
Std Dev 0
3
2
1
0
−1
−2

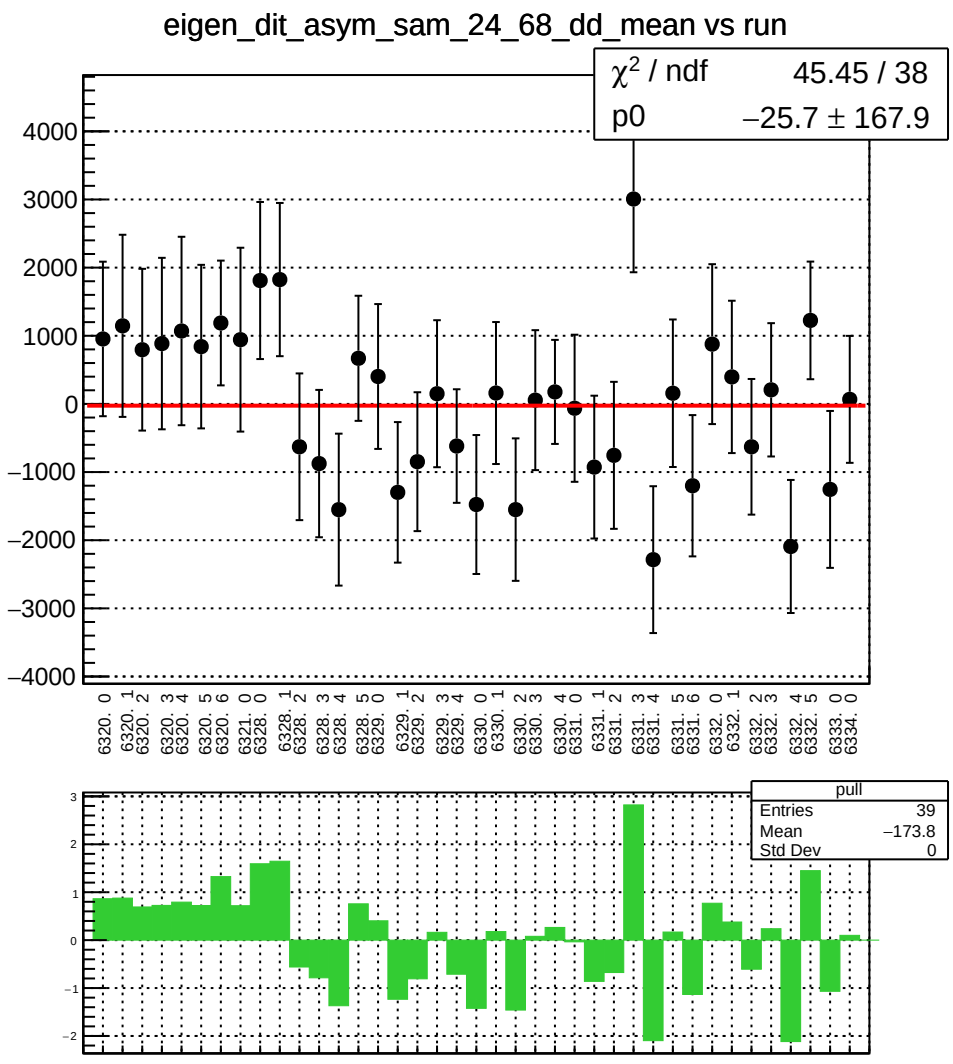

pull1D
Entries 39
Mean 0.02006
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

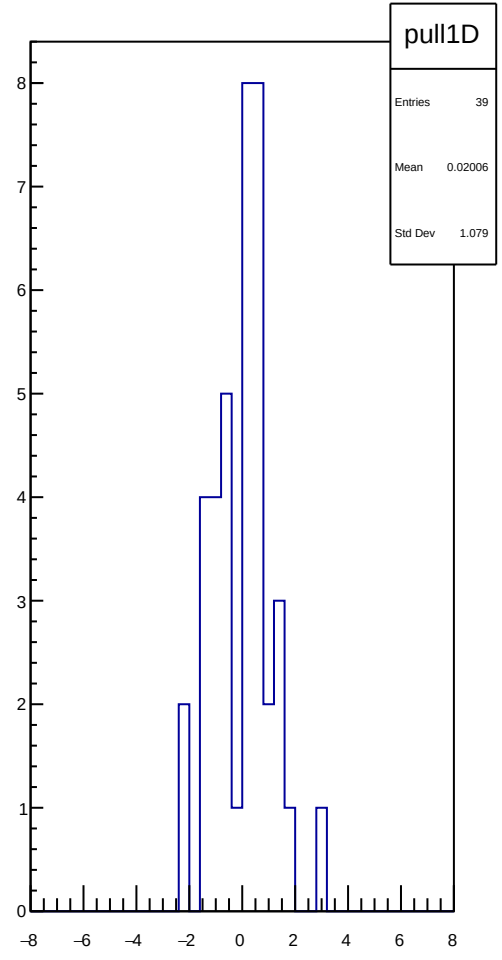

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4122 / 38
p0 103.1 ± 0.1187
135
130
125
120
115
110
105
100
95
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

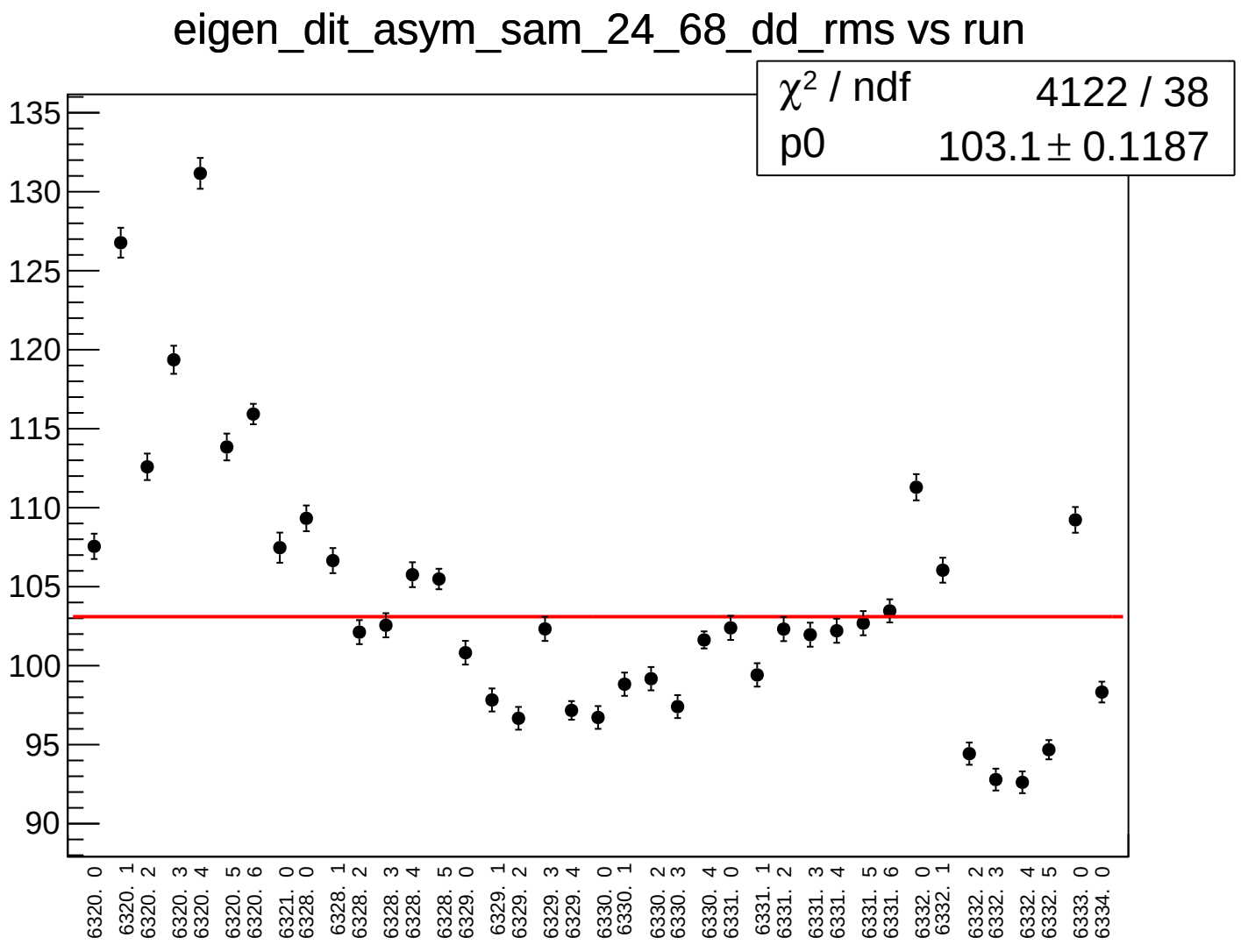

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 31.53 / 38
p0 −2069 ± 2000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

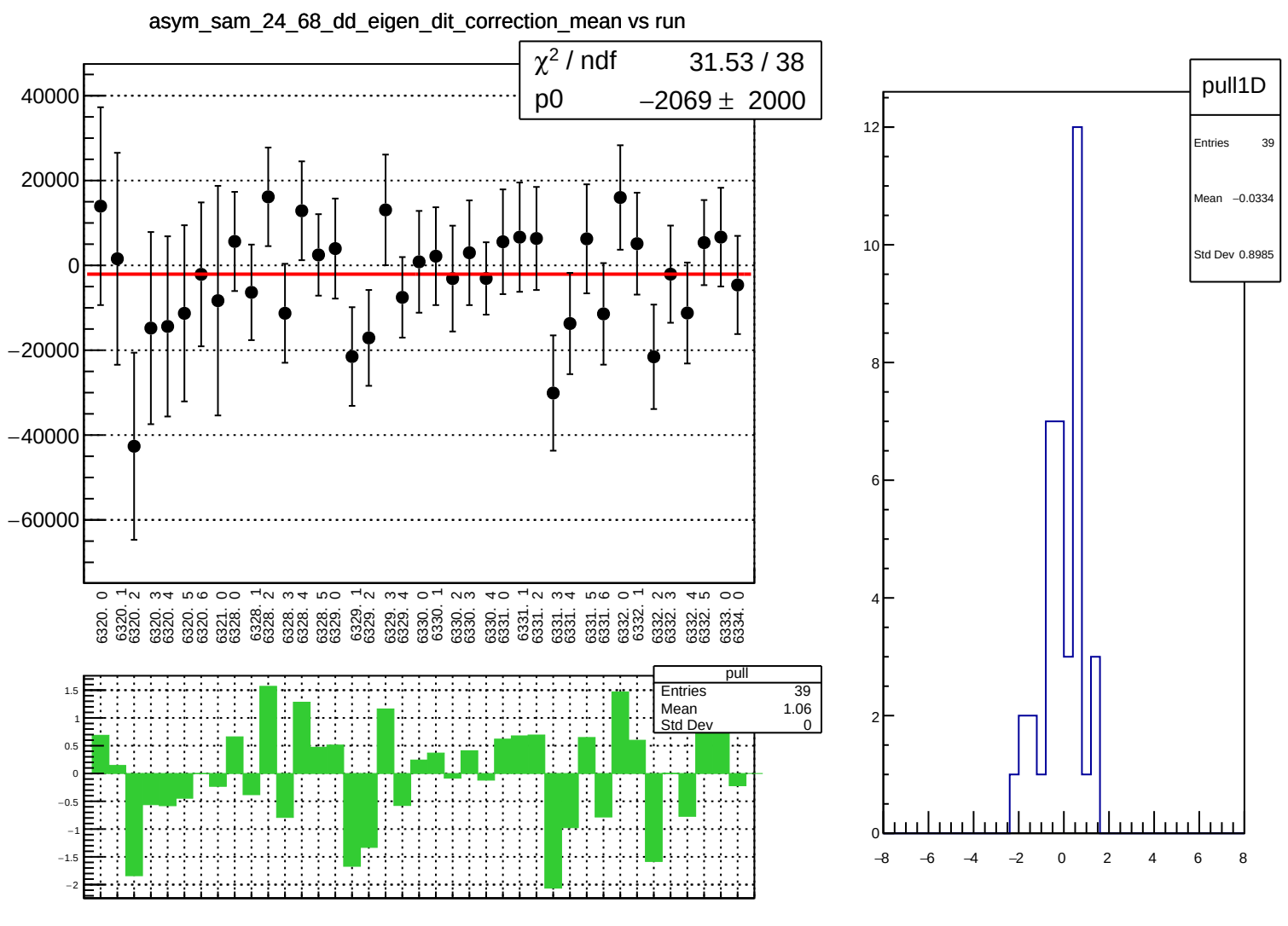

pull1D
Entries 39
Mean −0.0334
Std Dev 0.8985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

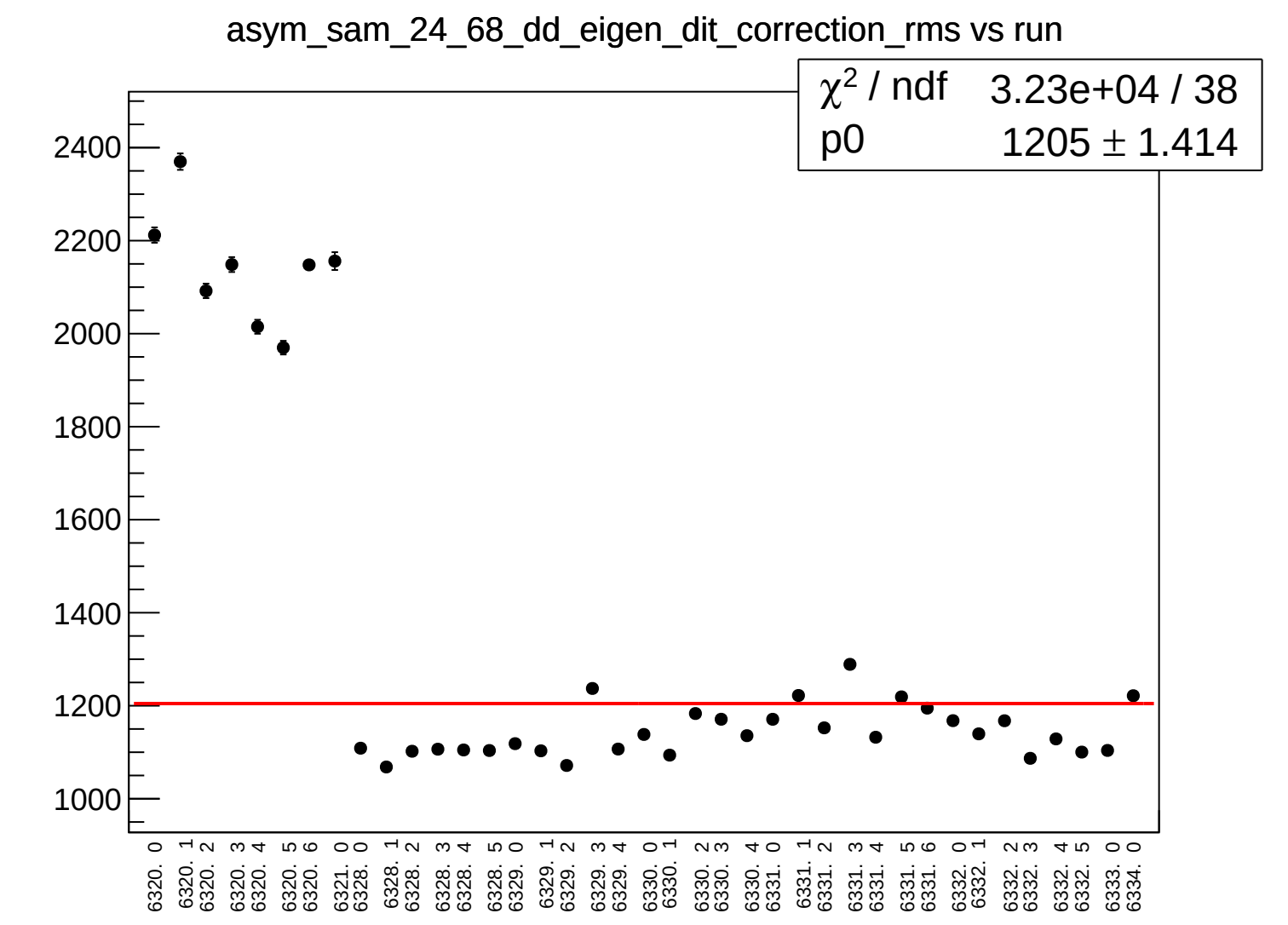

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3.23e+04 / 38
p0 1205 ± 1.414
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

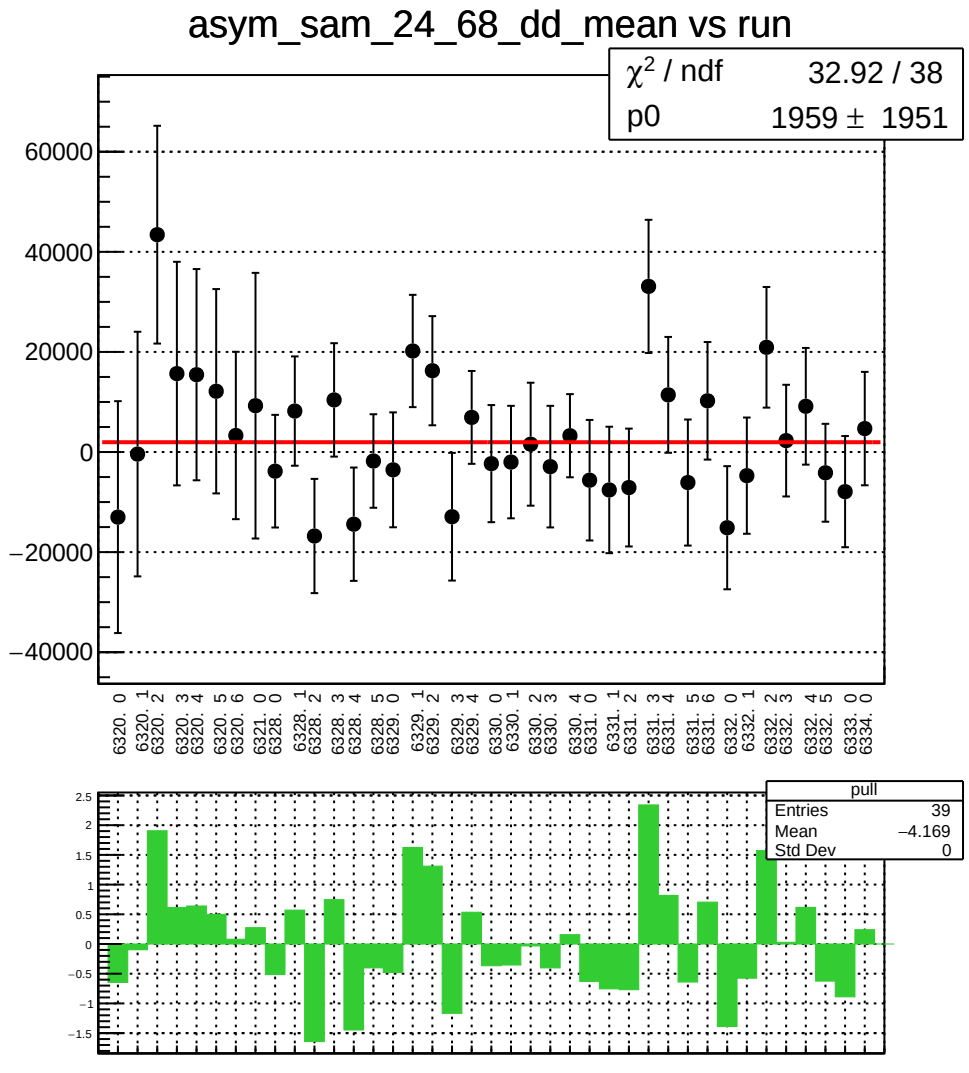

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 45.45 / 38
p0 −25.7 ± 167.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −173.8
Std Dev 0
3
2
1
0
−1
−2

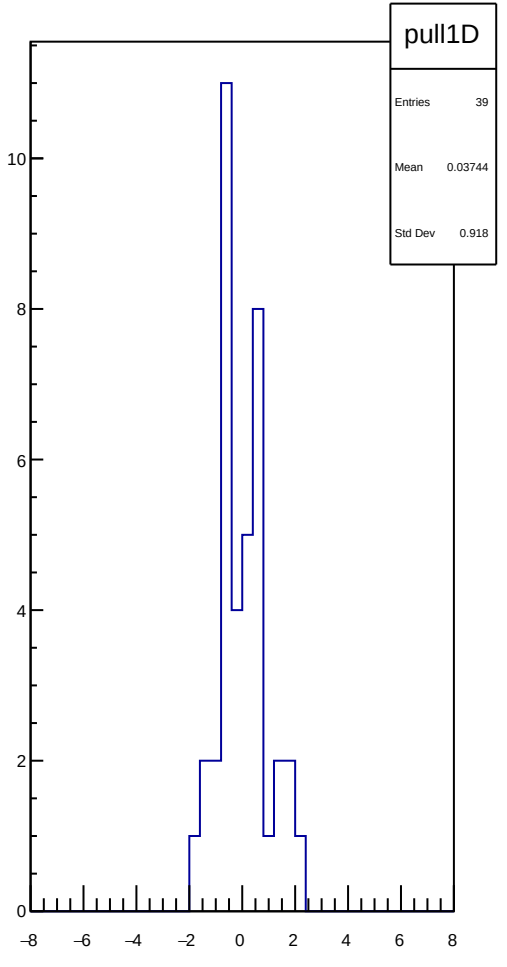

pull1D
Entries 39
Mean 0.02006
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

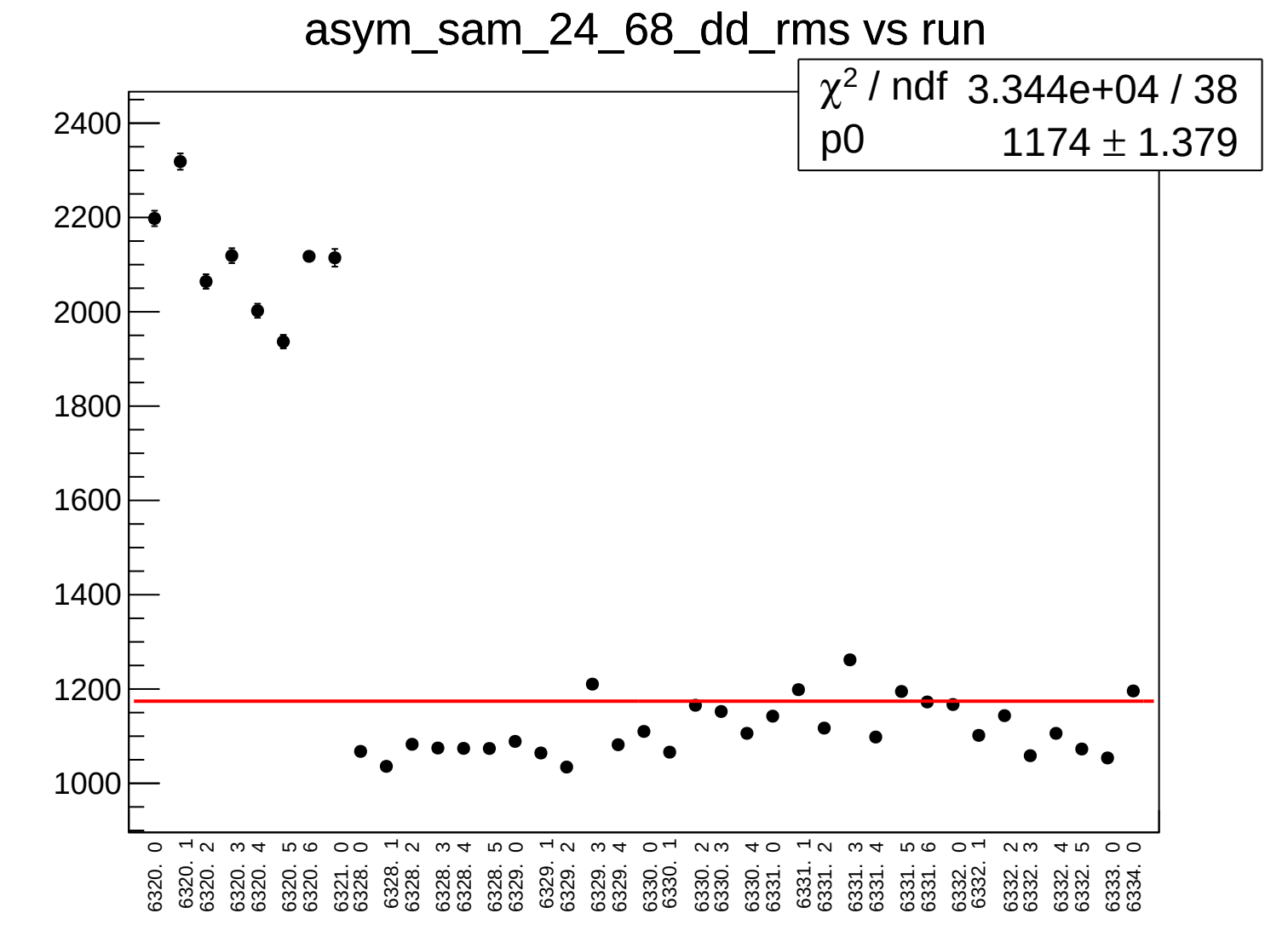

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4122 / 38
p0 103.1 ± 0.1187
135
130
125
120
115
110
105
100
95
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

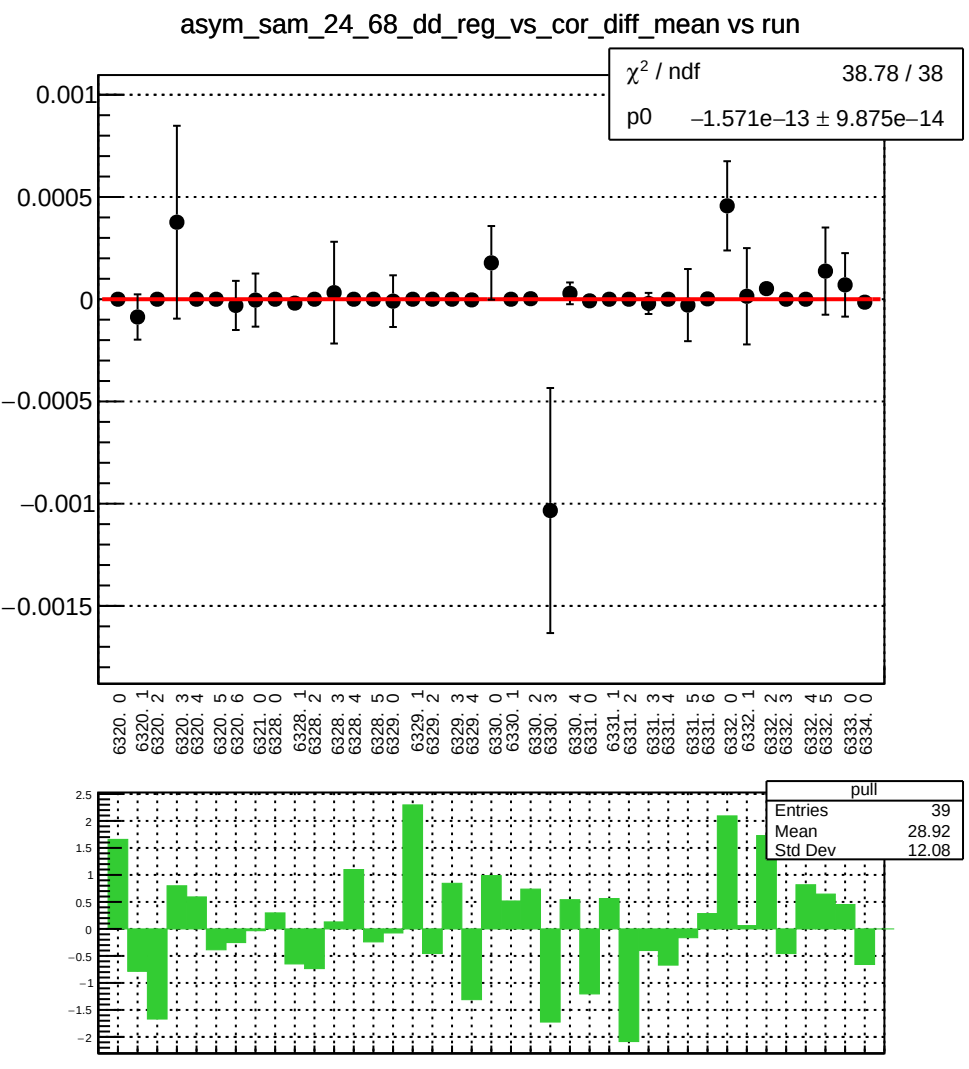

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.53 / 38
p0 −2069 ± 2000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.0334
Std Dev 0.8985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

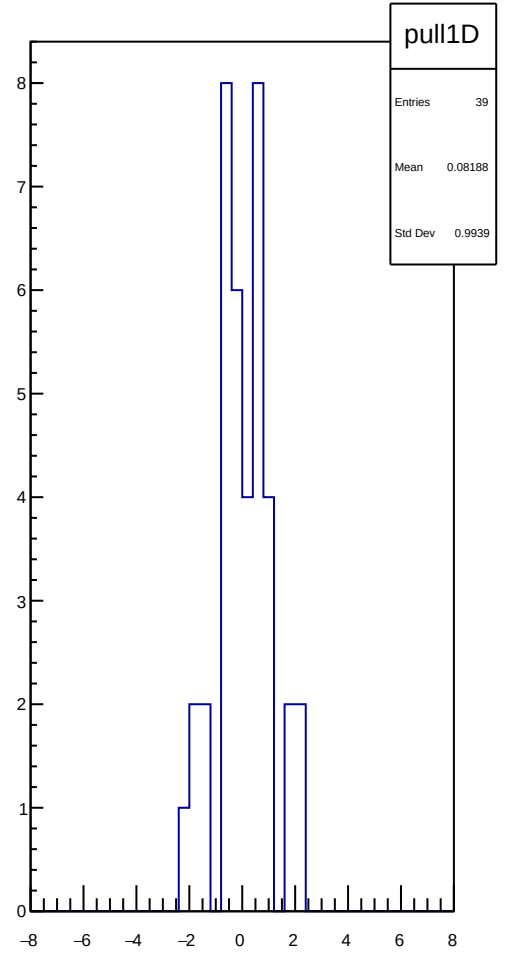

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.23e+04 / 38
p0 1205 ± 1.414
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

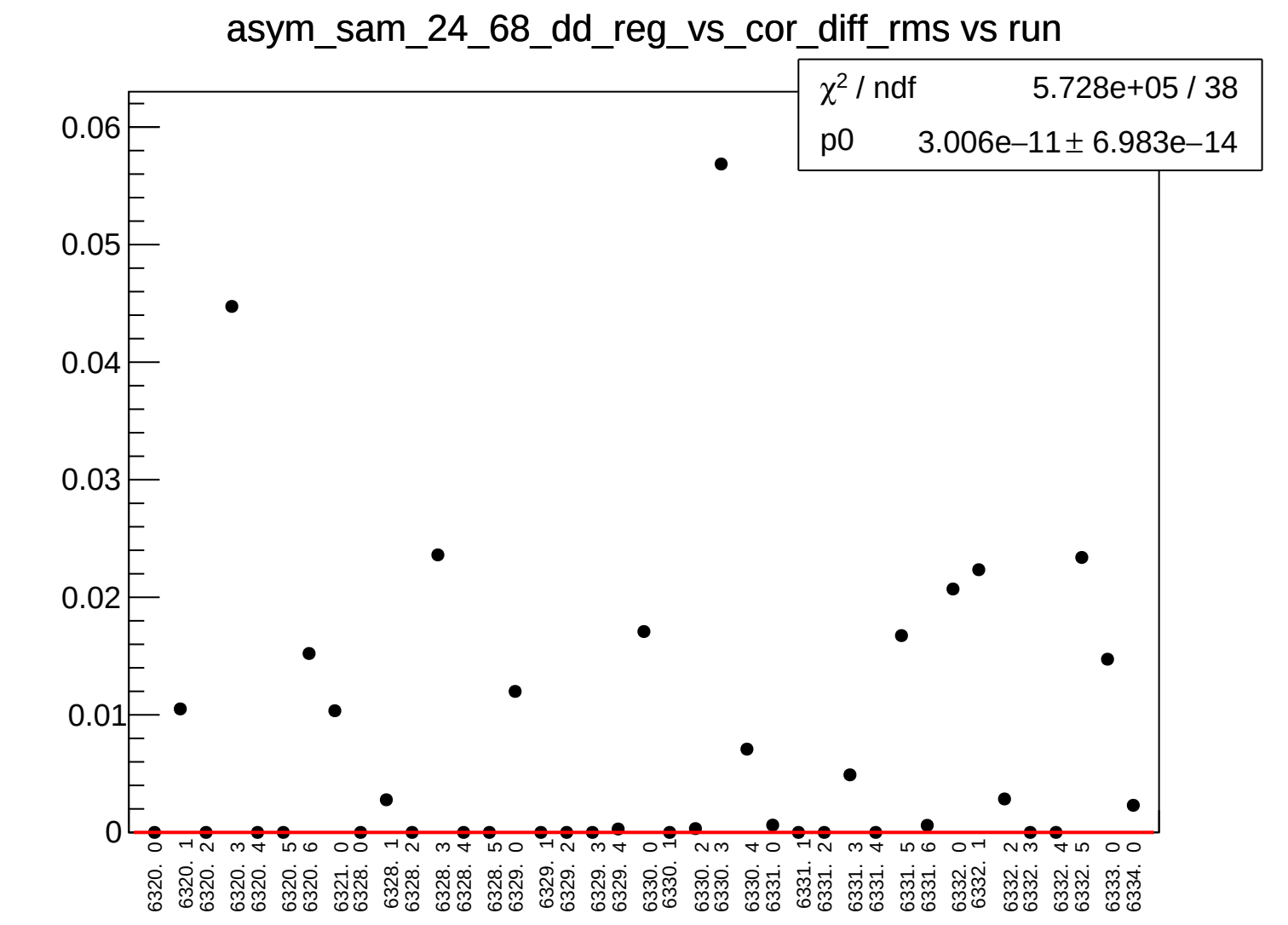

asym_sam_24_68_dd_mean vs run
χ² / ndf 32.92 / 38
p0 1959 ± 1951
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −4.169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

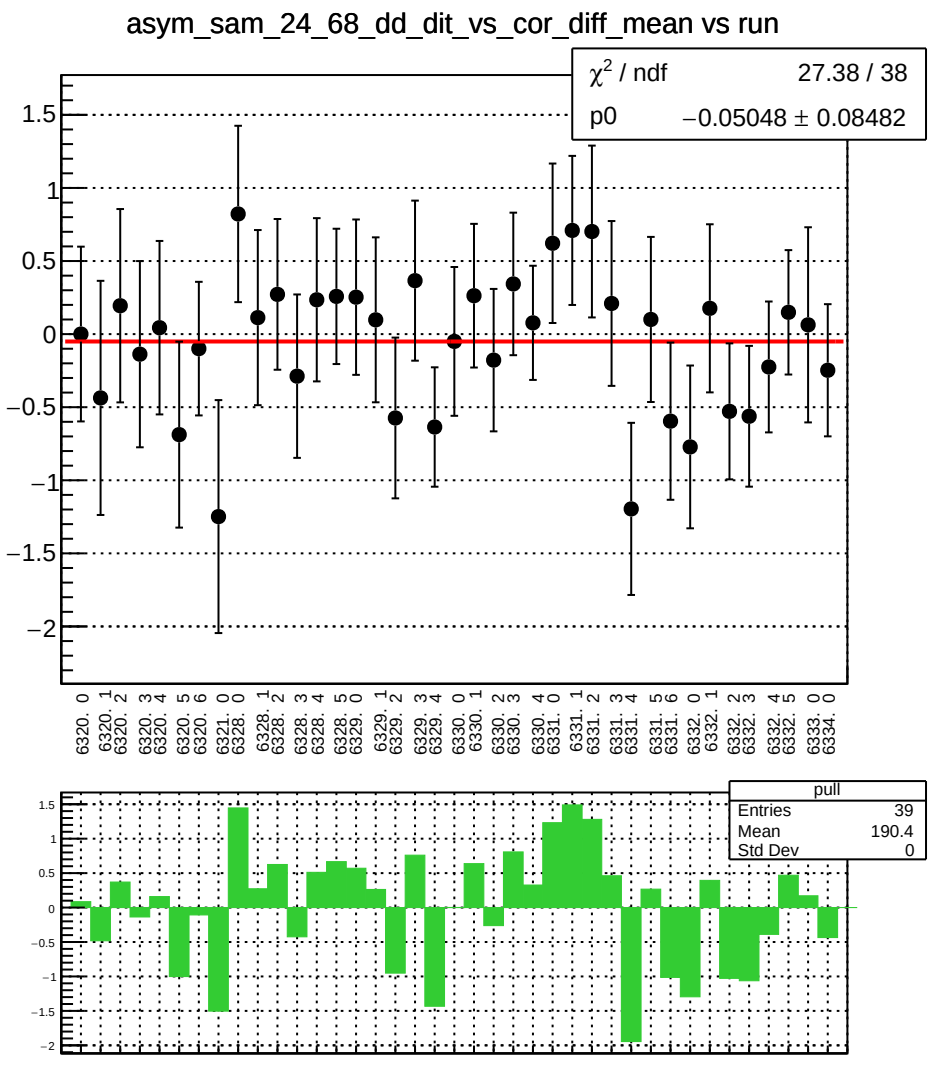

pull1D
Entries 39
Mean 0.03744
Std Dev 0.918
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

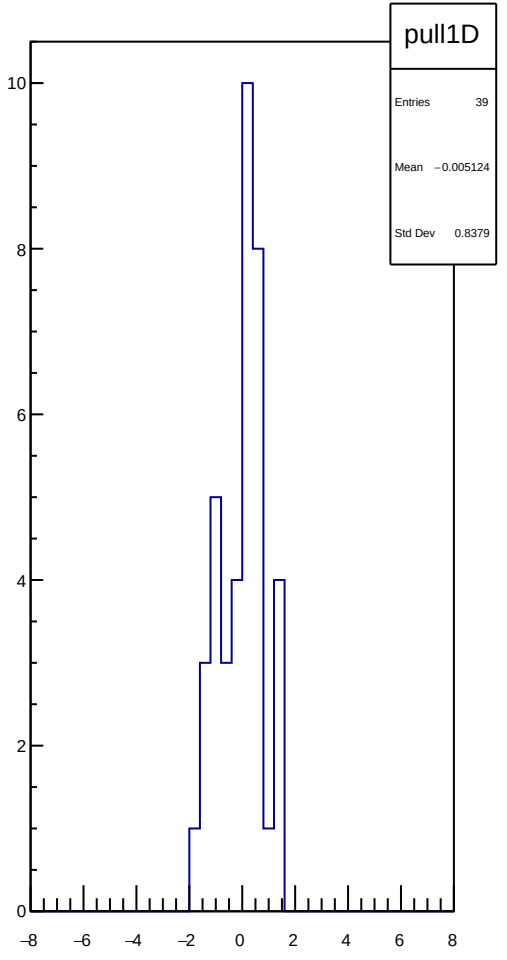

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.344e+04 / 38
p0 1174 ± 1.379
2400
2200
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

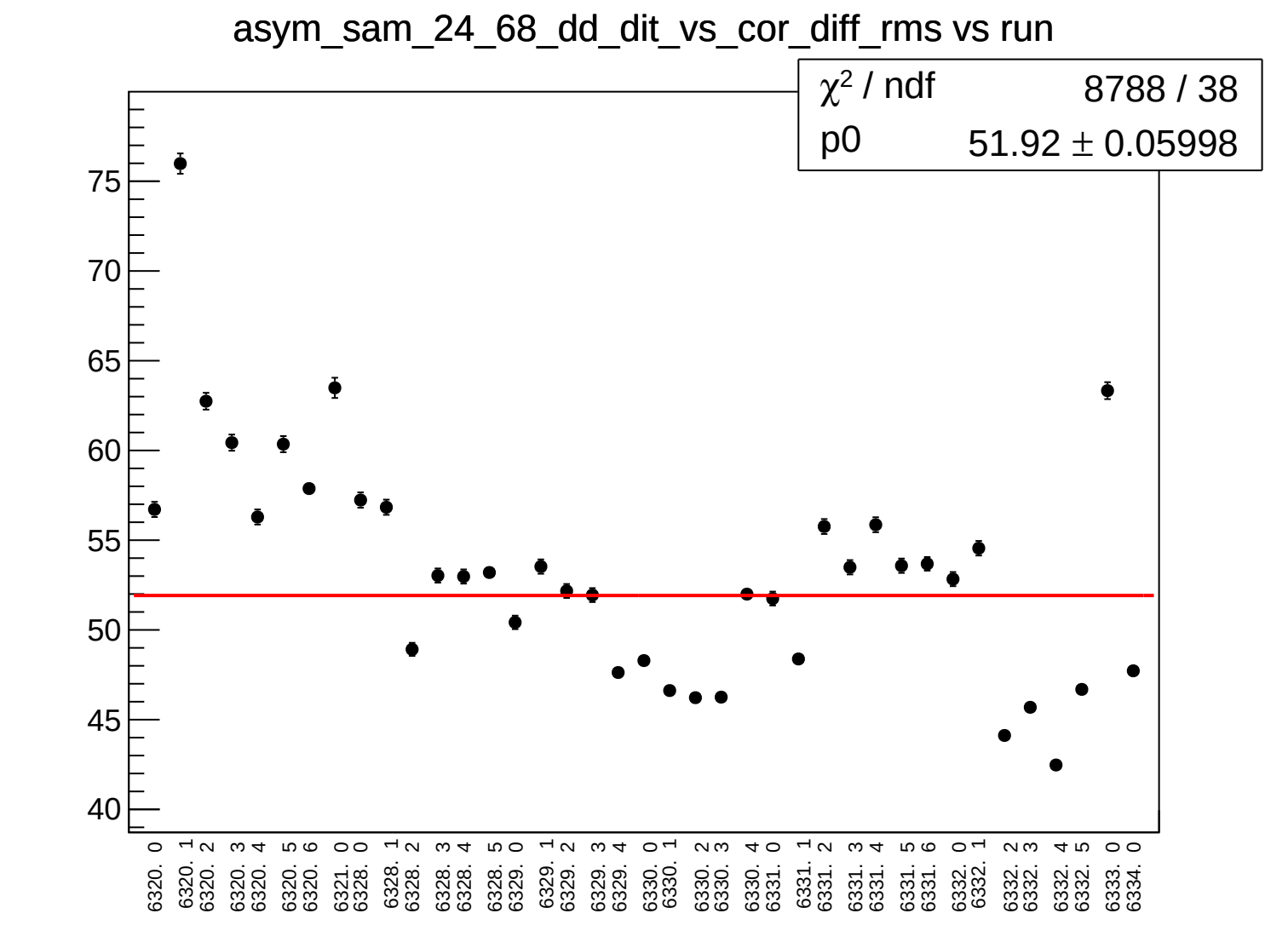

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.78 / 38
p0 −1.571e−13 ± 9.875e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.92
Std Dev 12.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

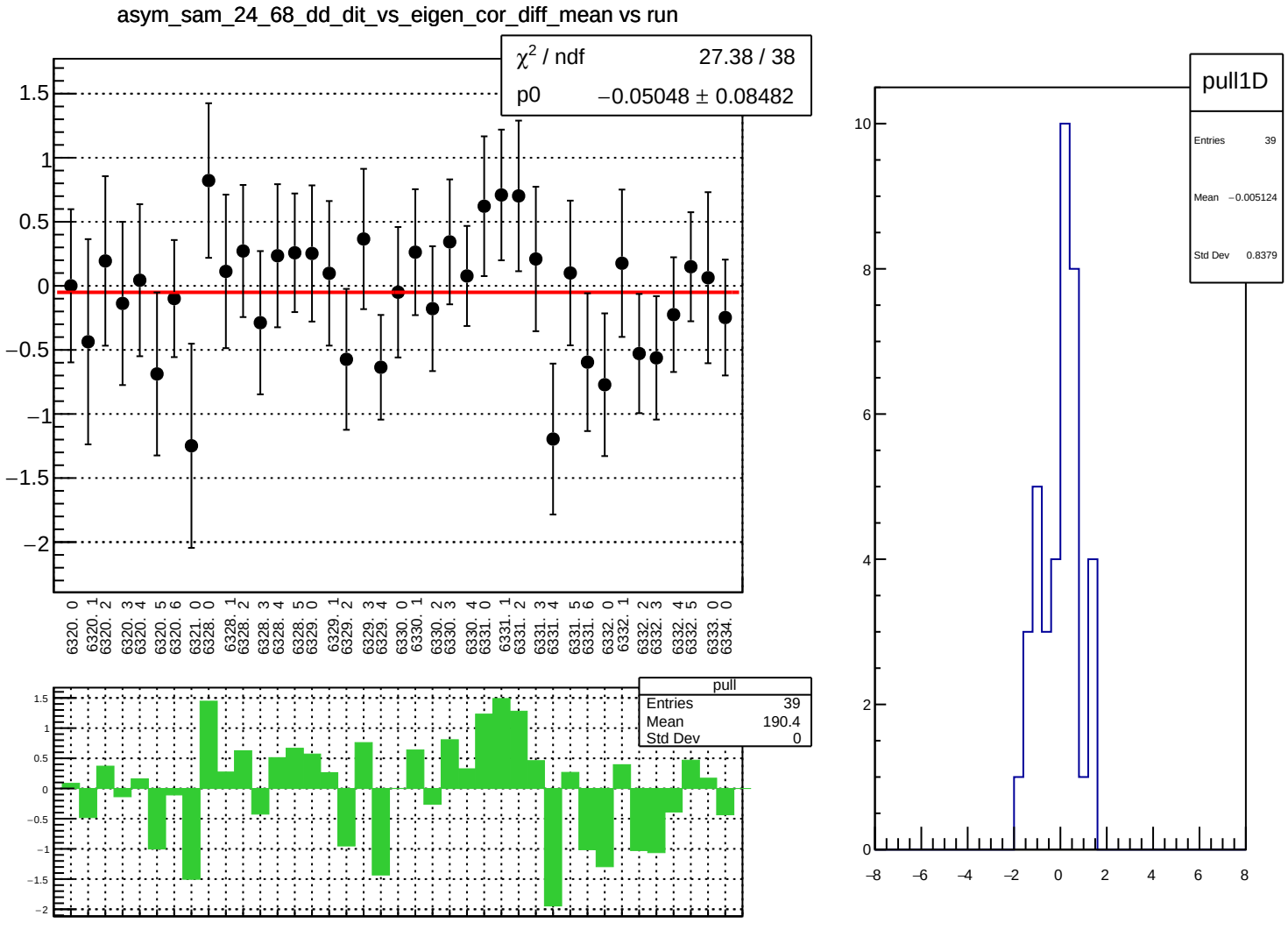

pull1D
Entries 39
Mean 0.08188
Std Dev 0.9939
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

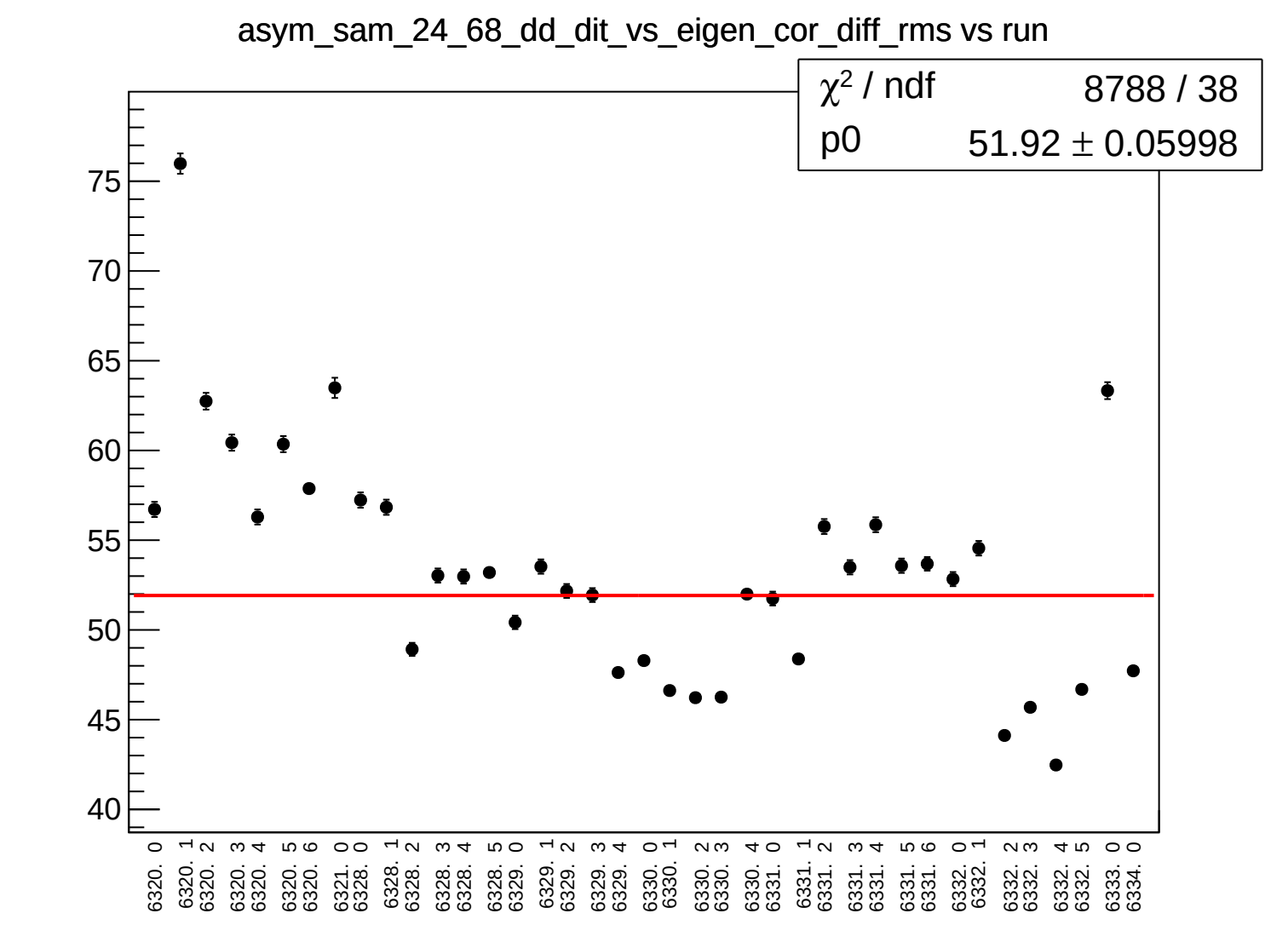

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.728e+05 / 38
p0 3.006e−11 ± 6.983e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

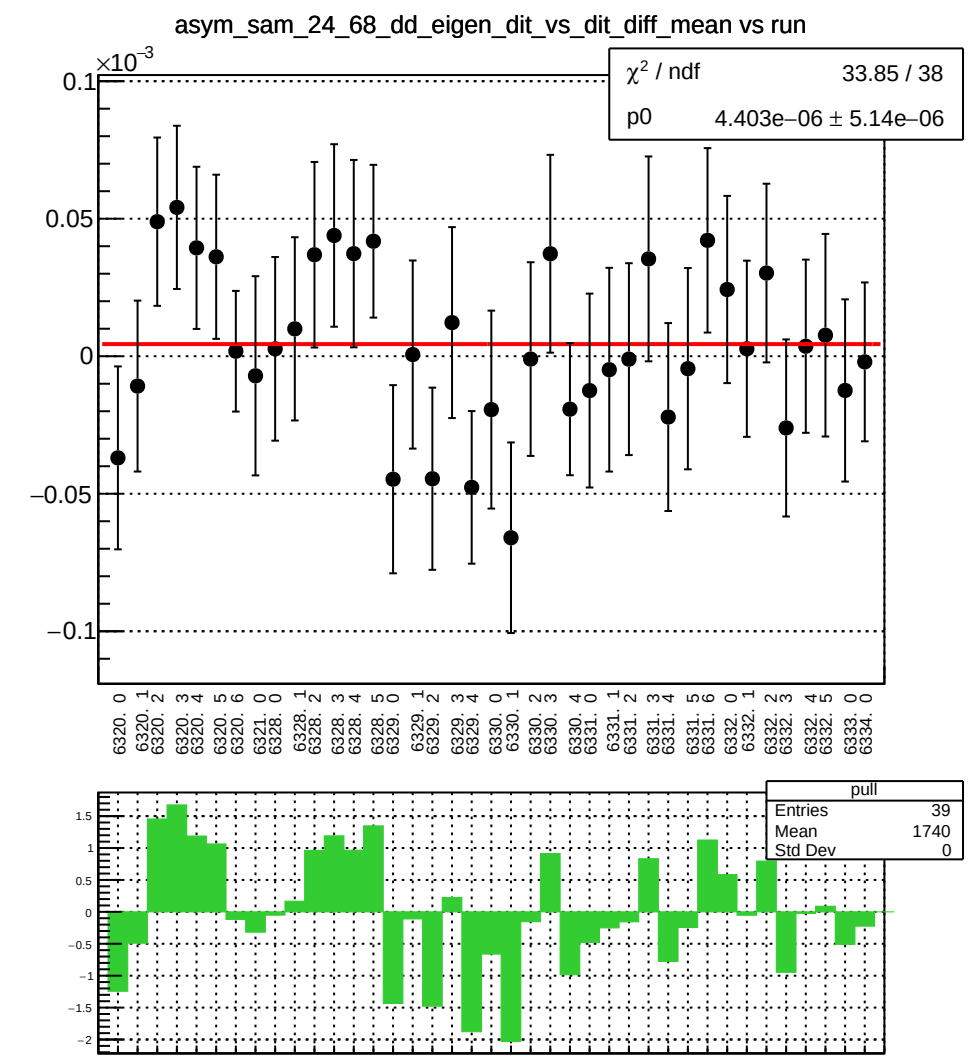

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.38 / 38
p0 −0.05048 ± 0.08482
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 190.4
Std Dev 0

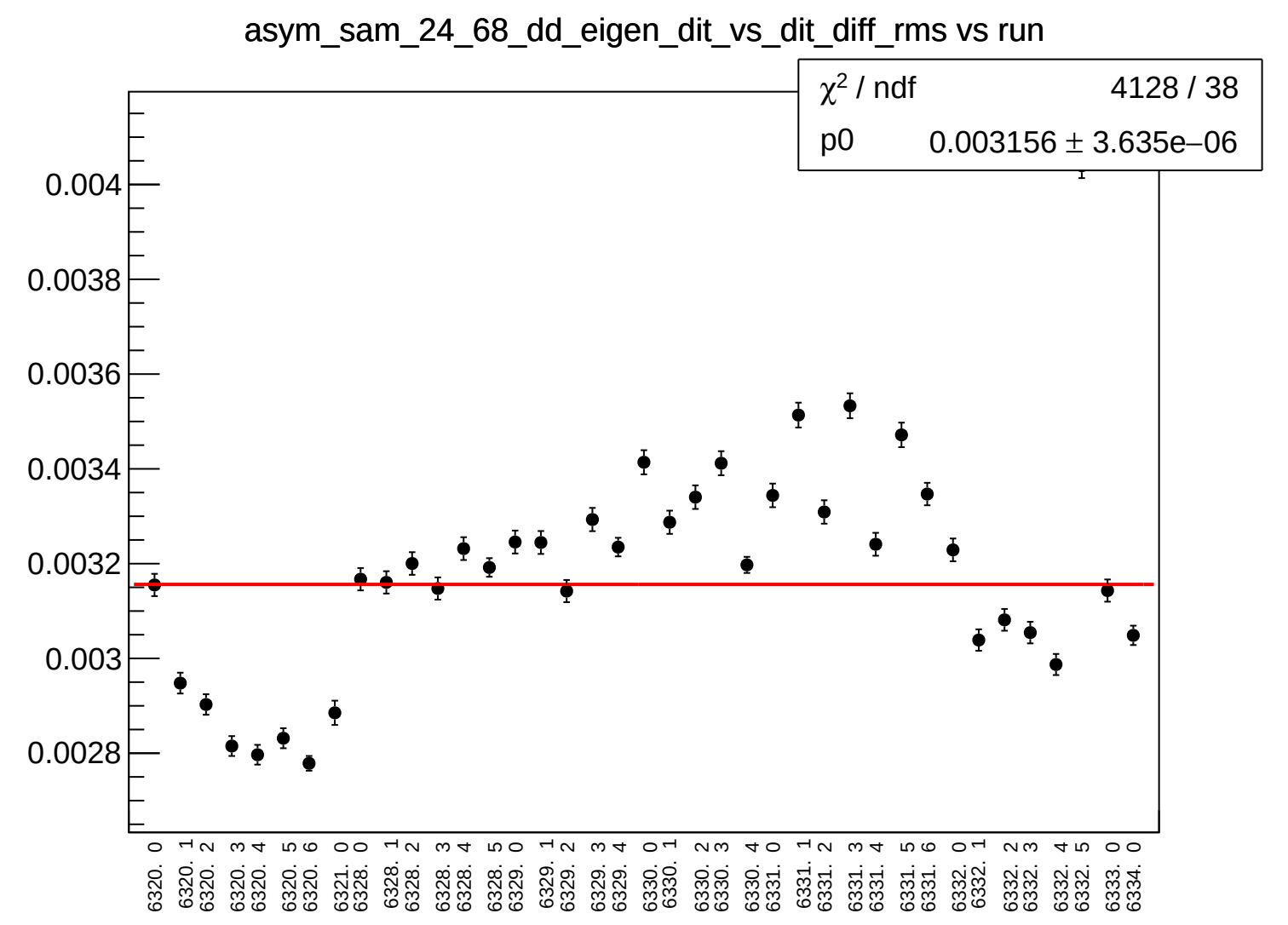

pull1D
Entries 39
Mean −0.005124
Std Dev 0.8379
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

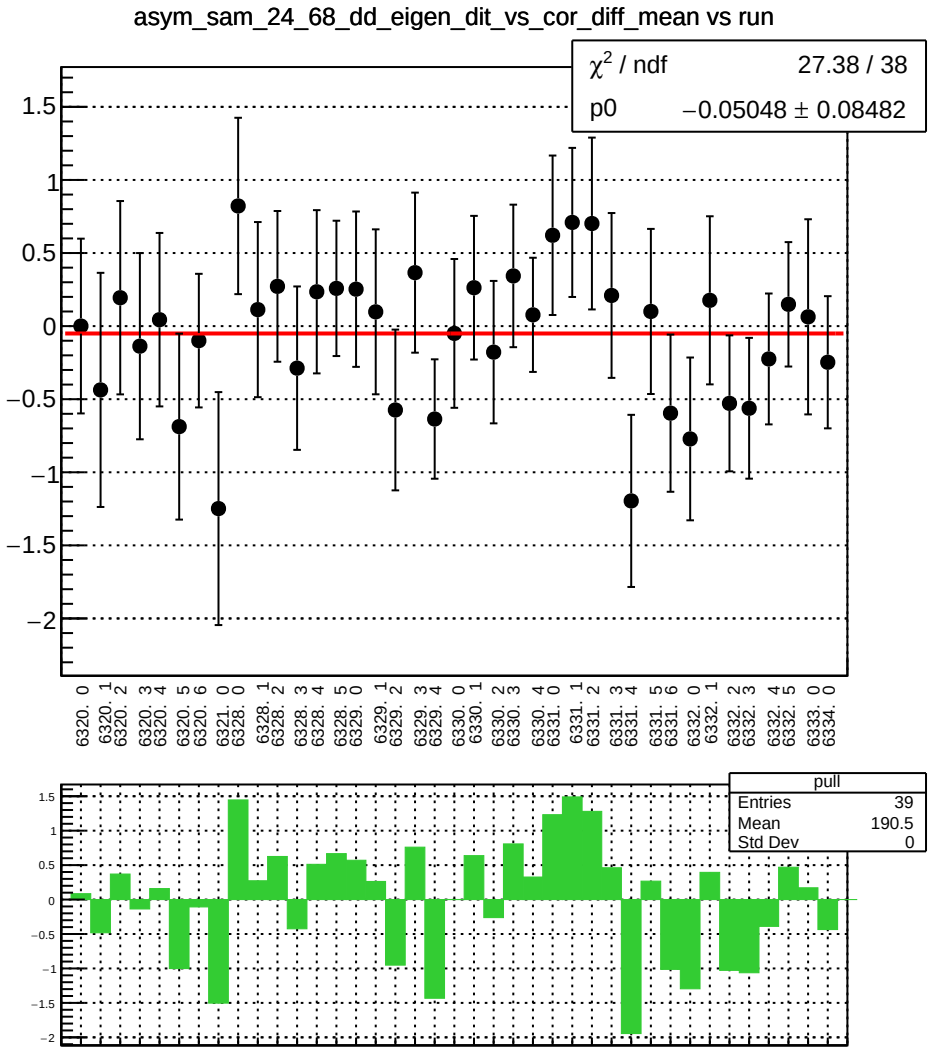

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8788 / 38
p0 51.92 ± 0.05998
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

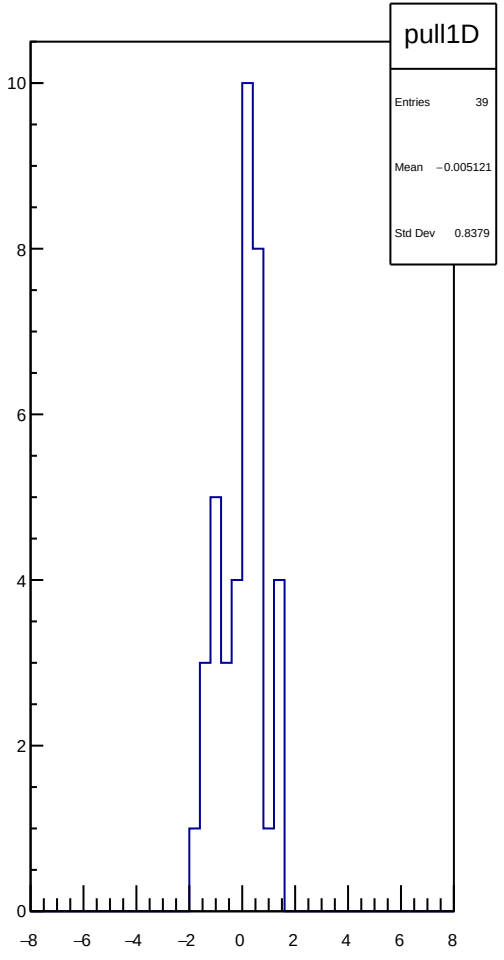

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.38 / 38
p0 −0.05048 ± 0.08482
pull
Entries 39
Mean 190.4
Std Dev 0
pull1D
Entries 39
Mean −0.005124
Std Dev 0.8379

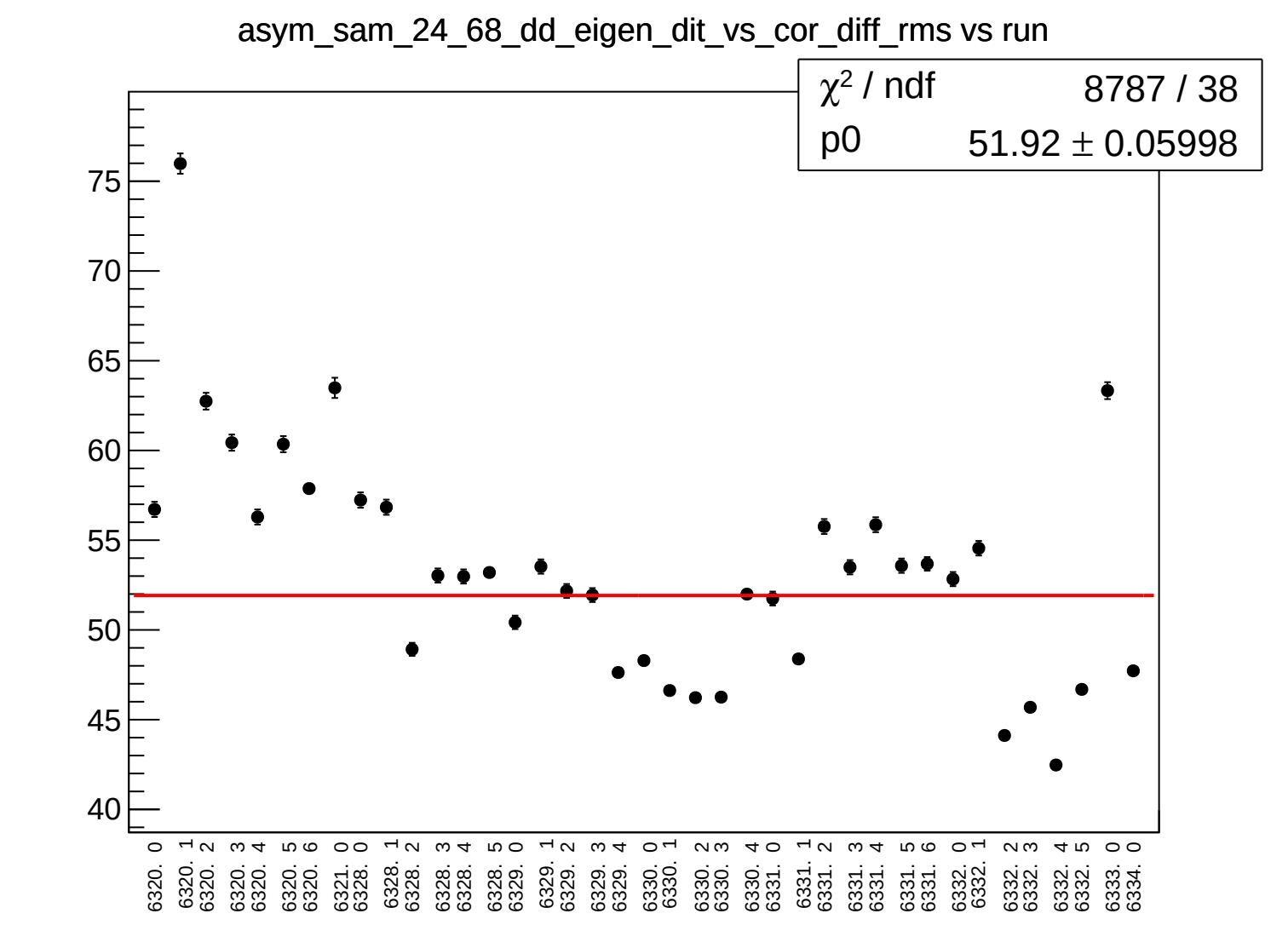

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8788 / 38
p0 51.92 ± 0.05998
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

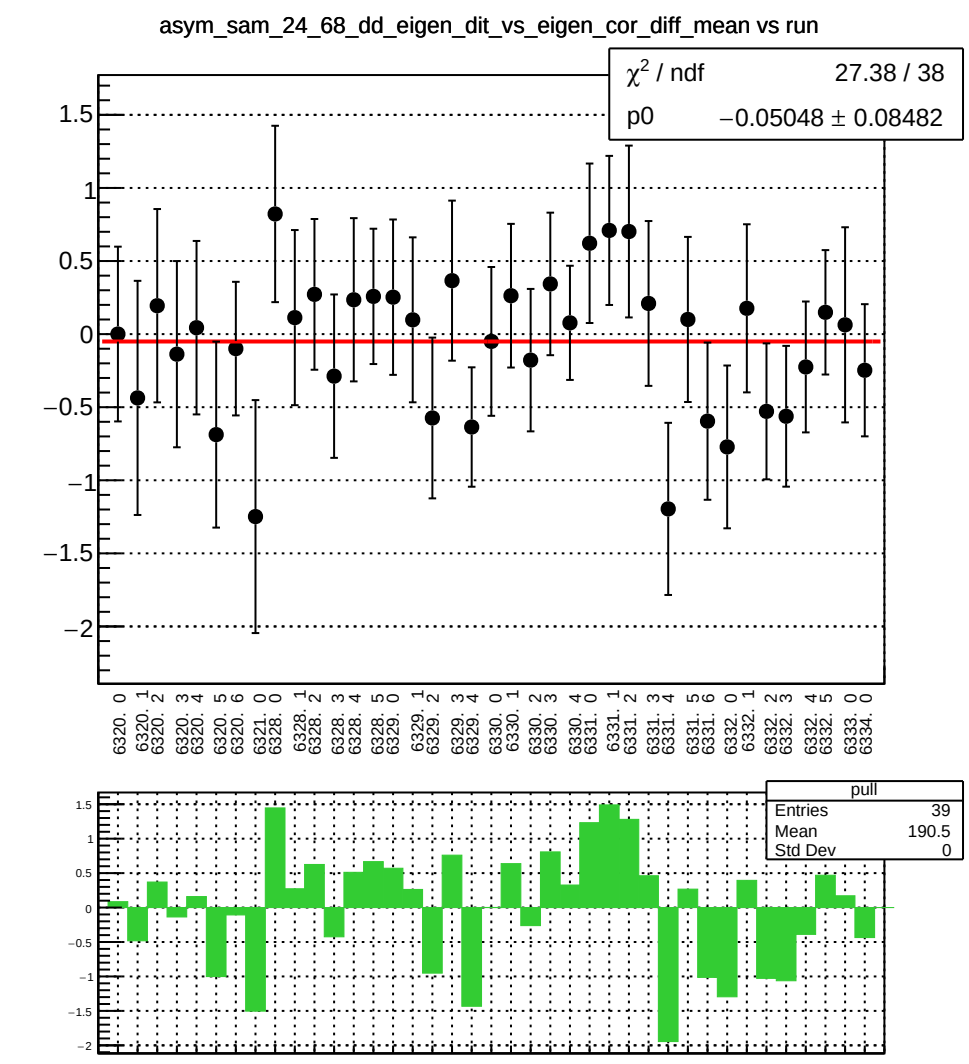

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 33.85 / 38
p0 4.403e−06 ± 5.14e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1740
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.001118
Std Dev 0.9316
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

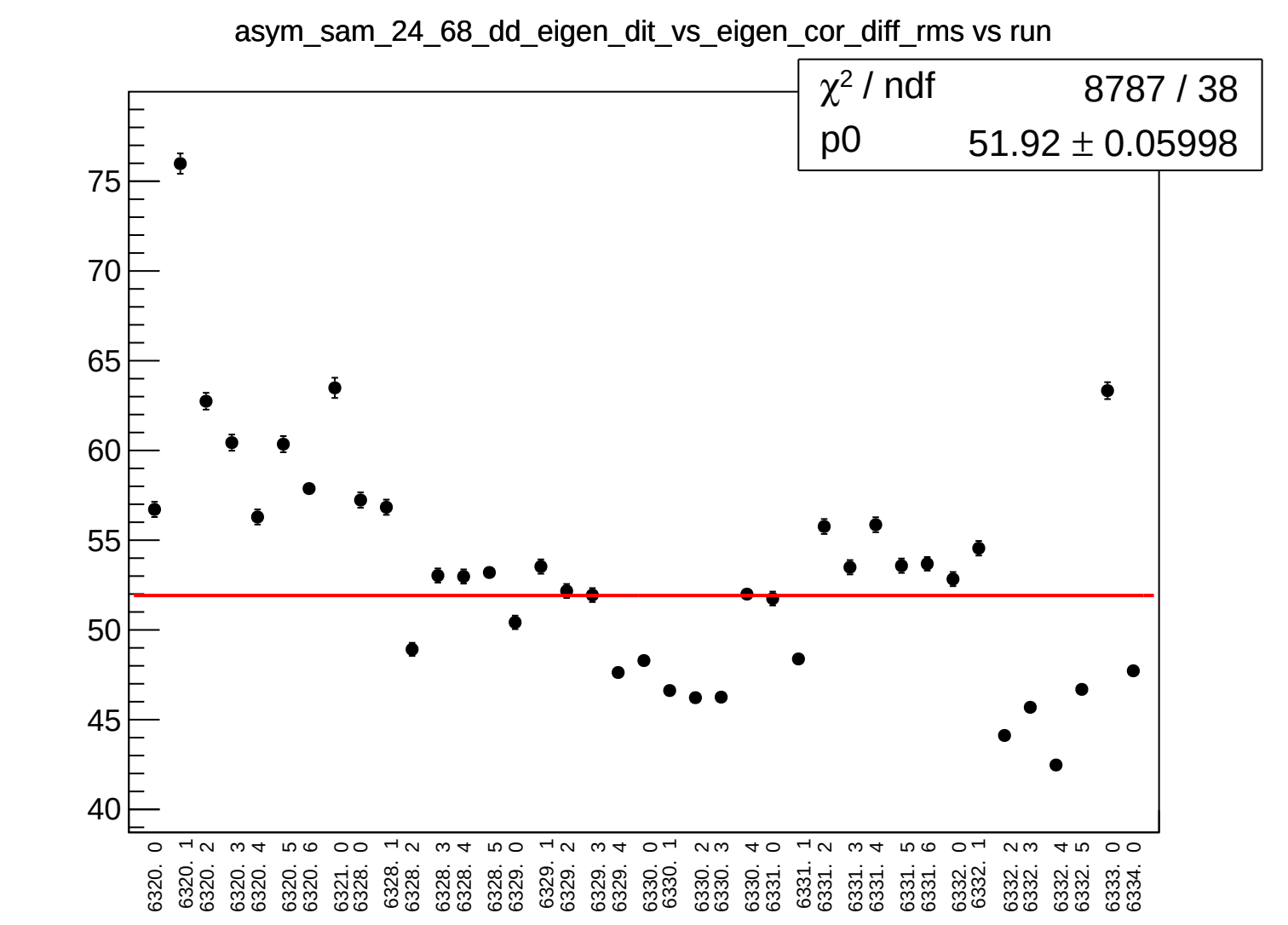

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4128 / 38
p0 0.003156 ± 3.635e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

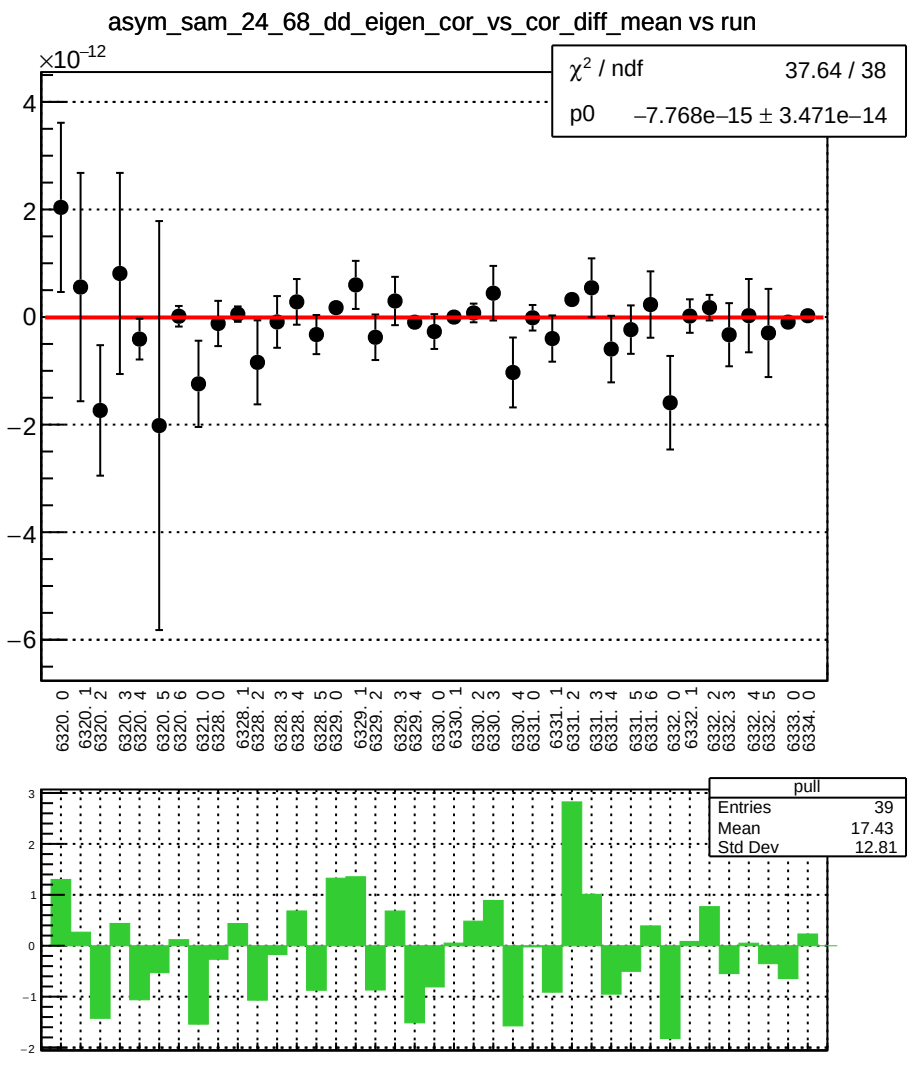

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.38 / 38
p0 −0.05048 ± 0.08482
pull
Entries 39
Mean 190.5
Std Dev 0

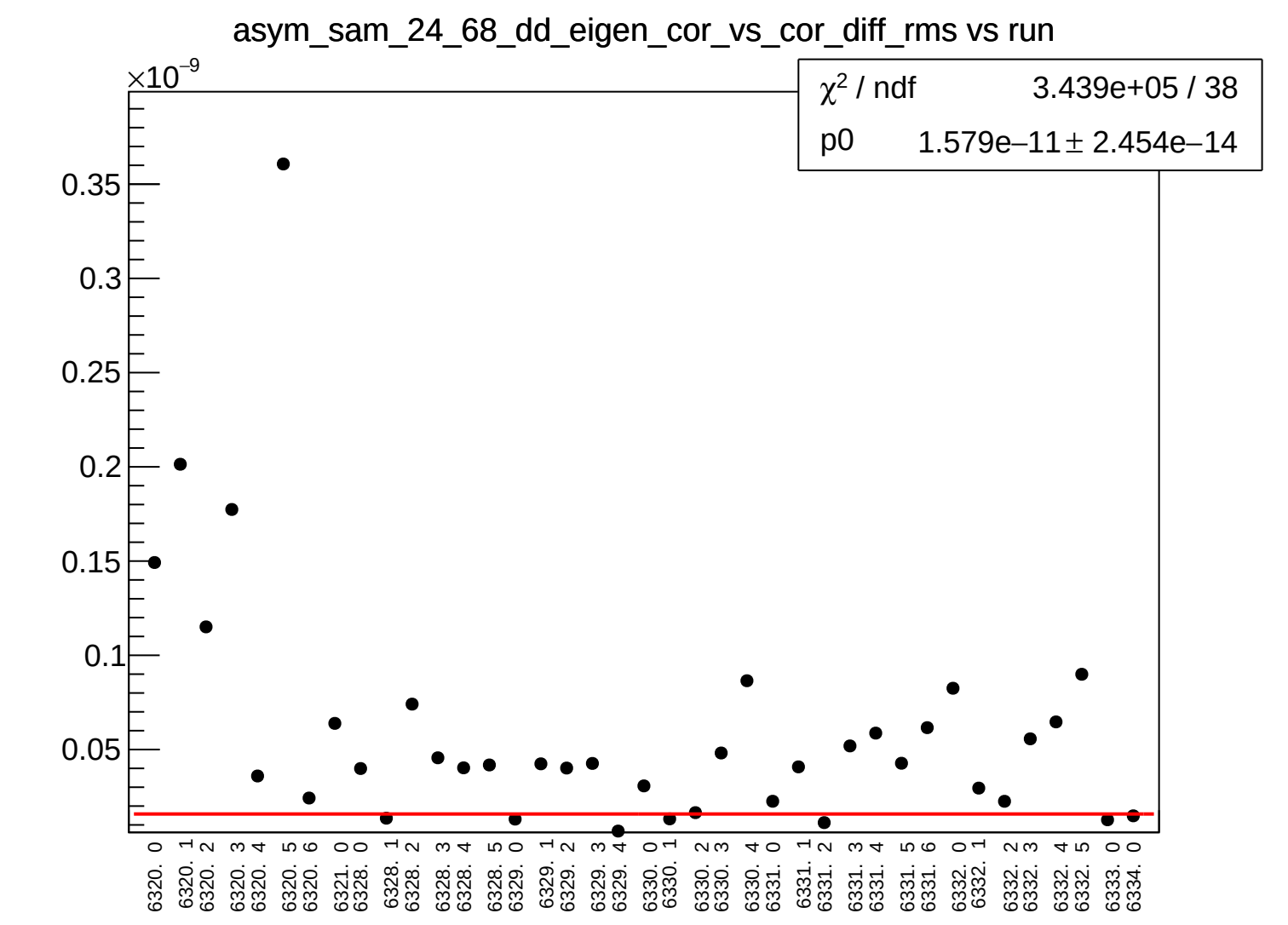

pull1D
Entries 39
Mean −0.005121
Std Dev 0.8379

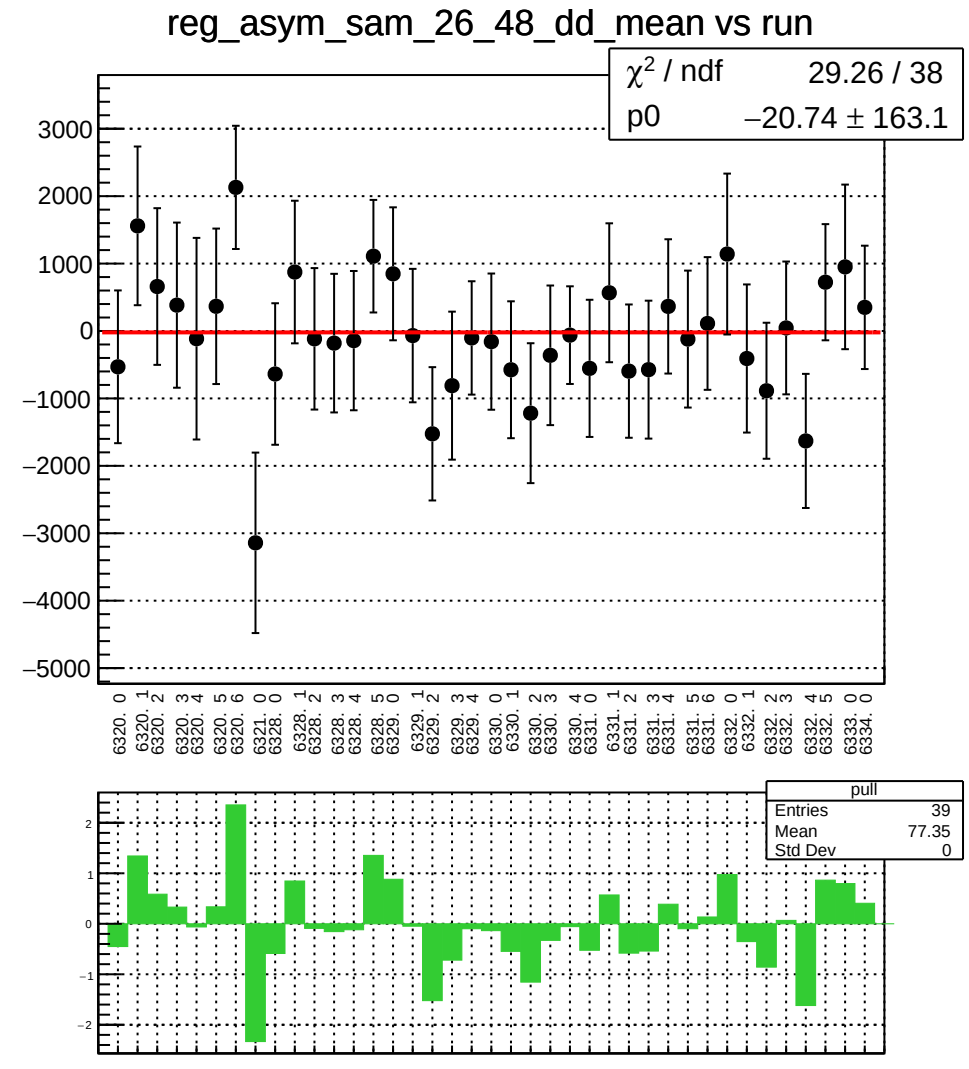

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8787 / 38
p0 51.92 ± 0.05998
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

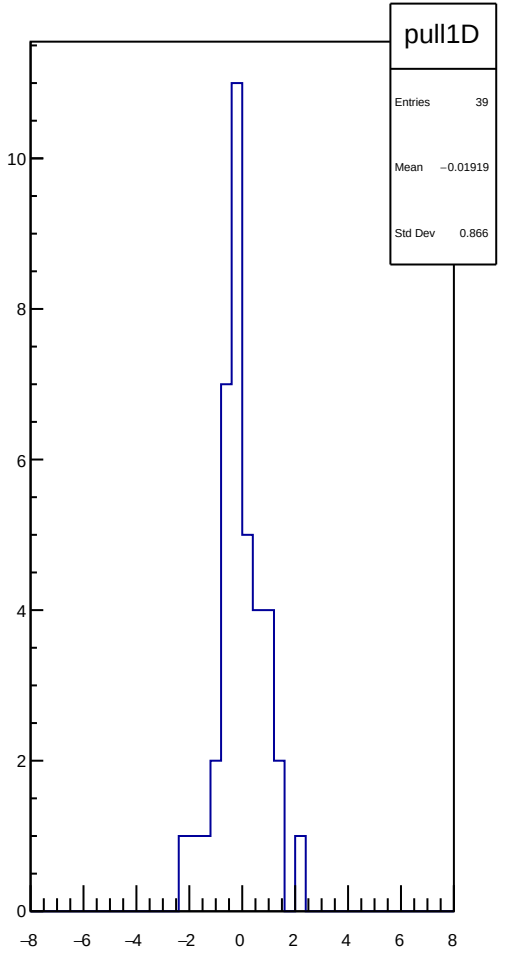

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.38 / 38
p0 −0.05048 ± 0.08482
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 190.5
Std Dev 0
pull1D
Entries 39
Mean −0.005121
Std Dev 0.8379
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

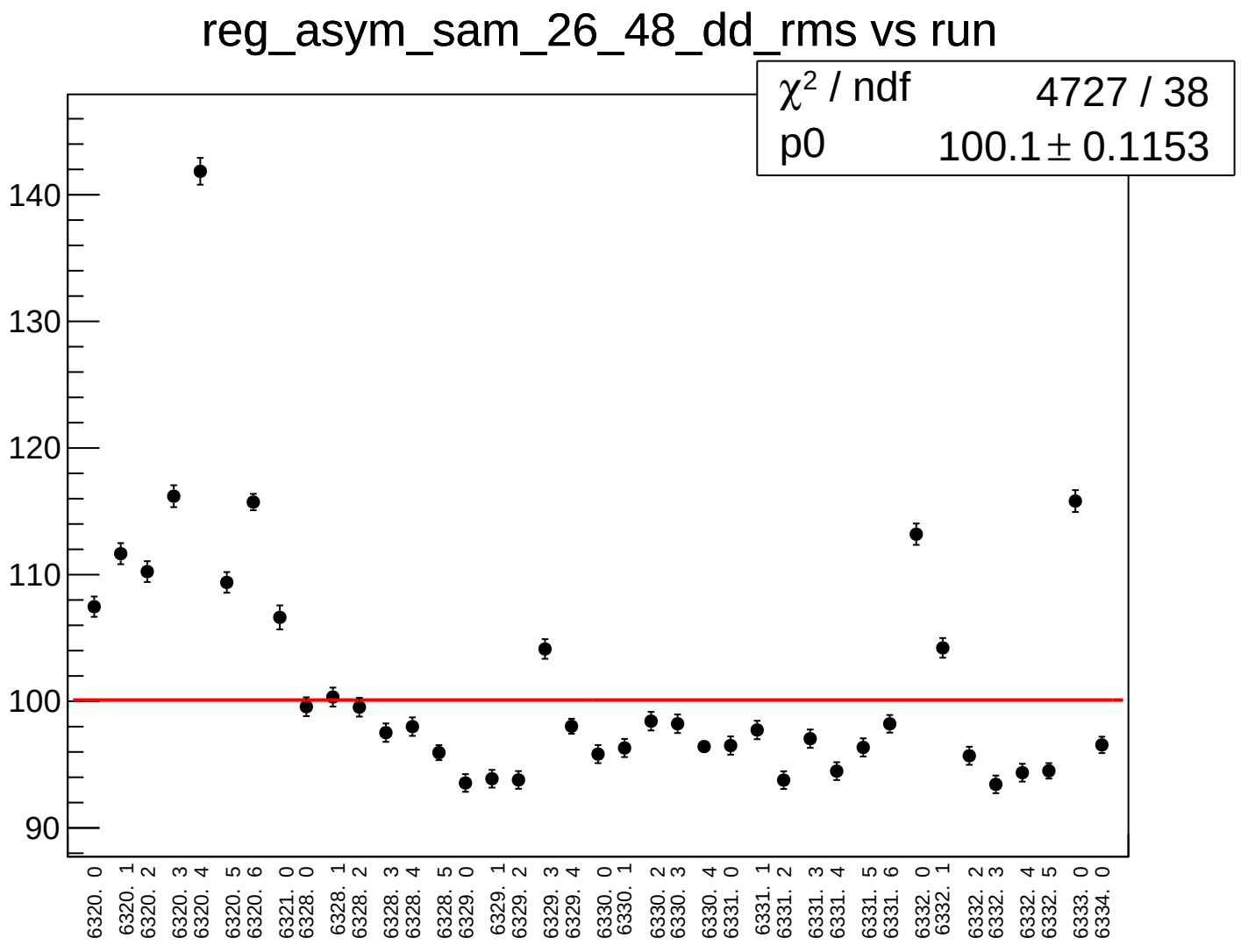

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8787 / 38
p0 51.92 ± 0.05998
75
70
65
60
55
50
45
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

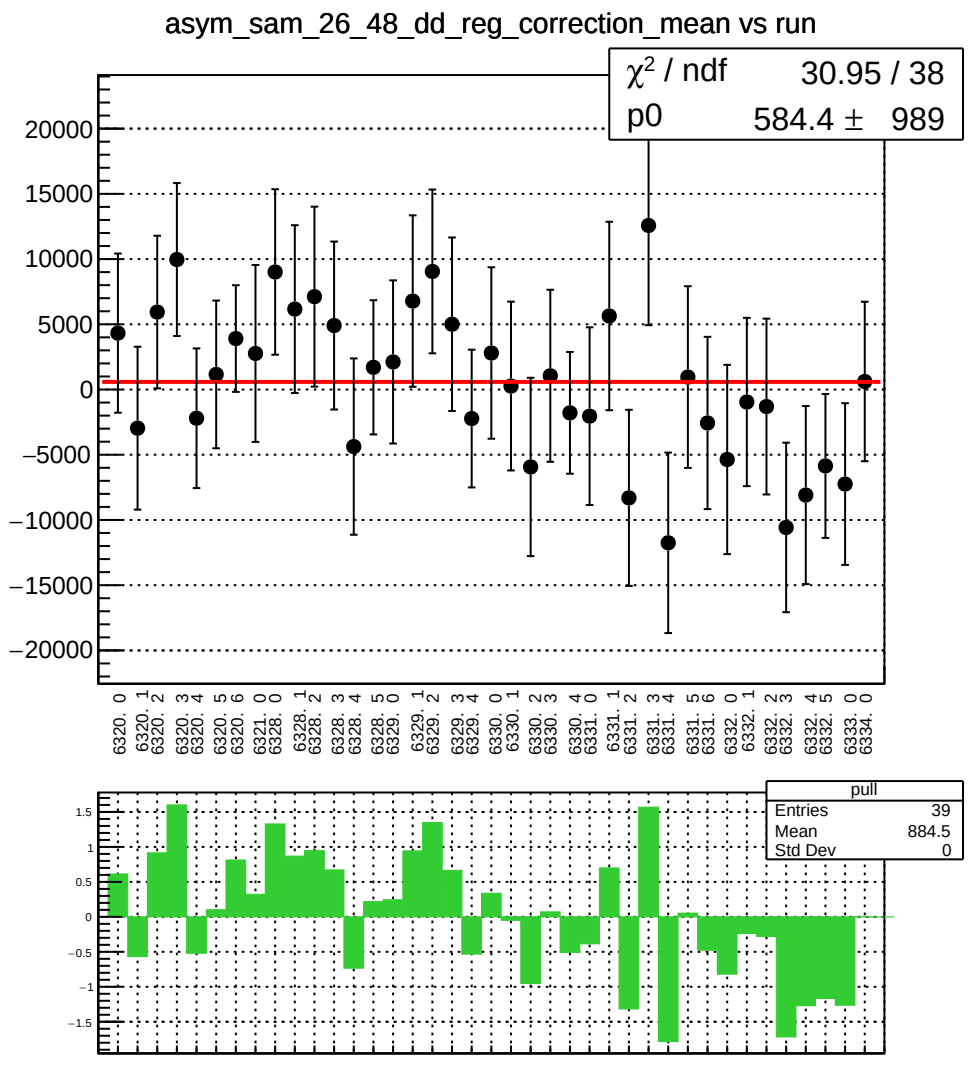

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.64 / 38
p0 −7.768e−15 ± 3.471e−14
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 17.43
Std Dev 12.81
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1042
Std Dev 0.9768
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

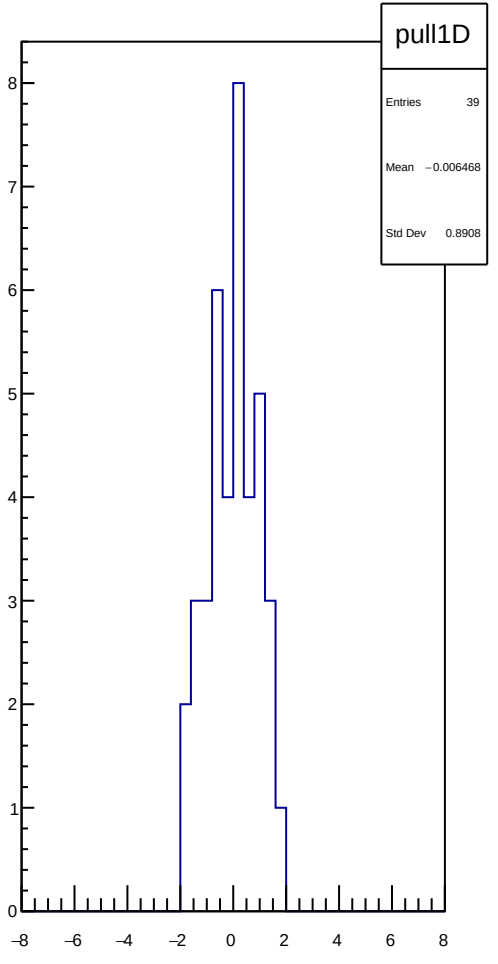

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.439e+05 / 38
p0 1.579e−11 ± 2.454e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

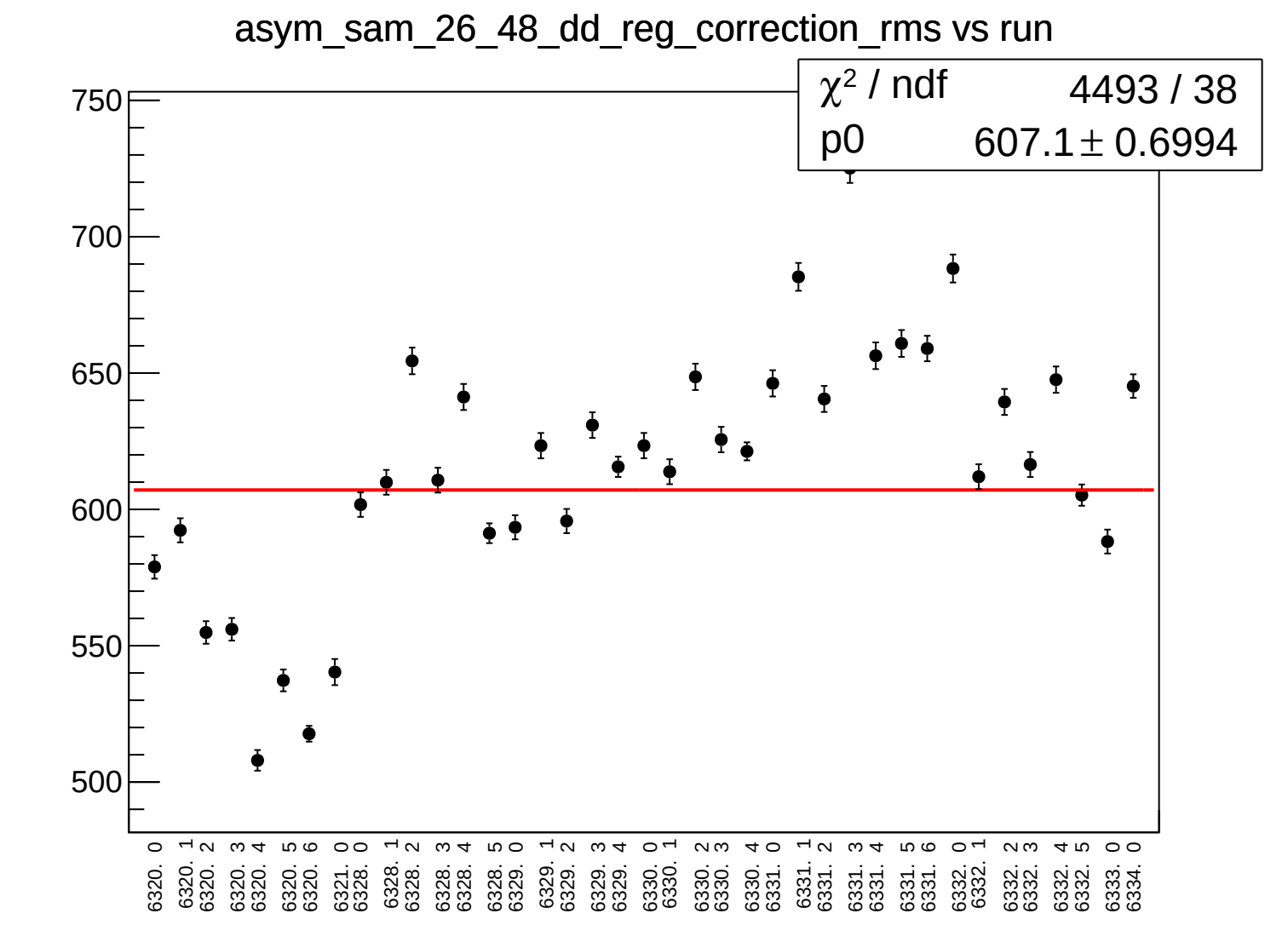

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 29.26 / 38
p0 −20.74 ± 163.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 77.35
Std Dev 0
2
1
0
−1
−2

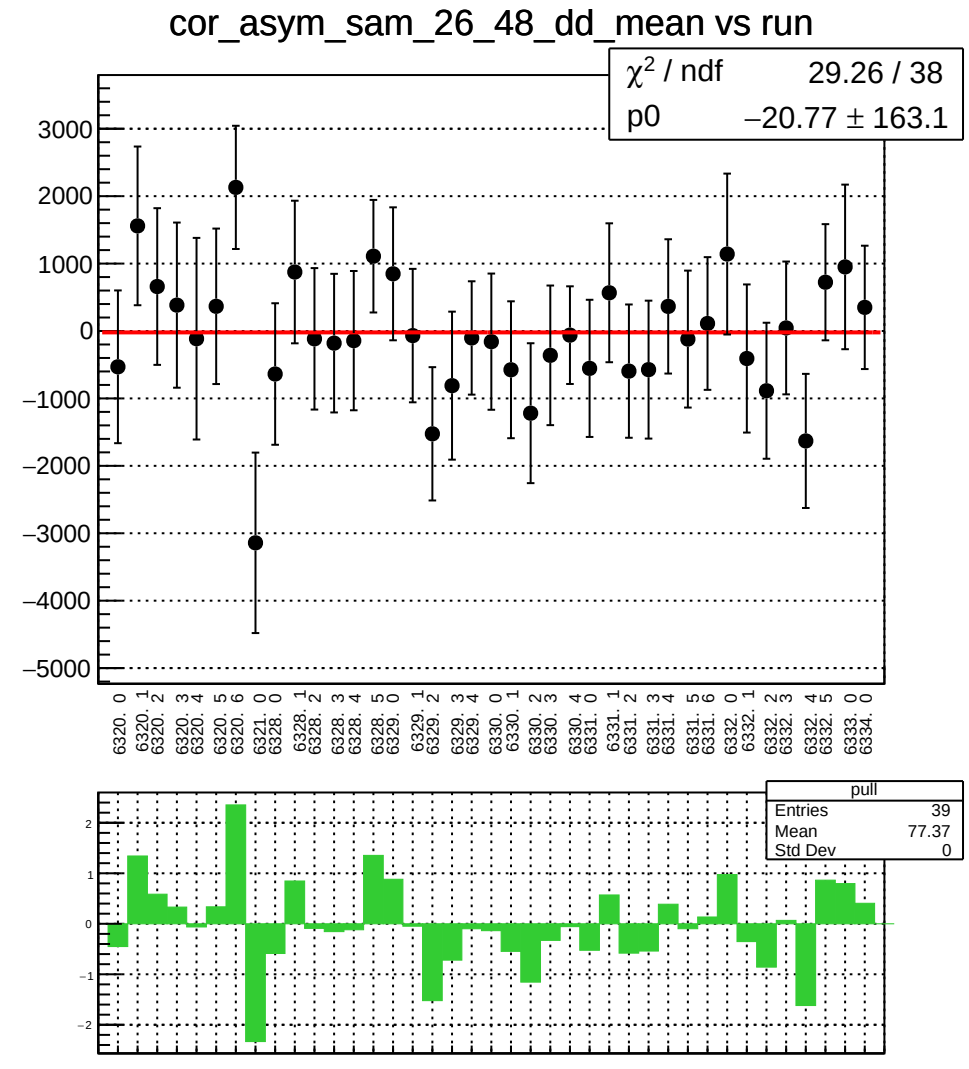

pull1D
Entries 39
Mean −0.01919
Std Dev 0.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

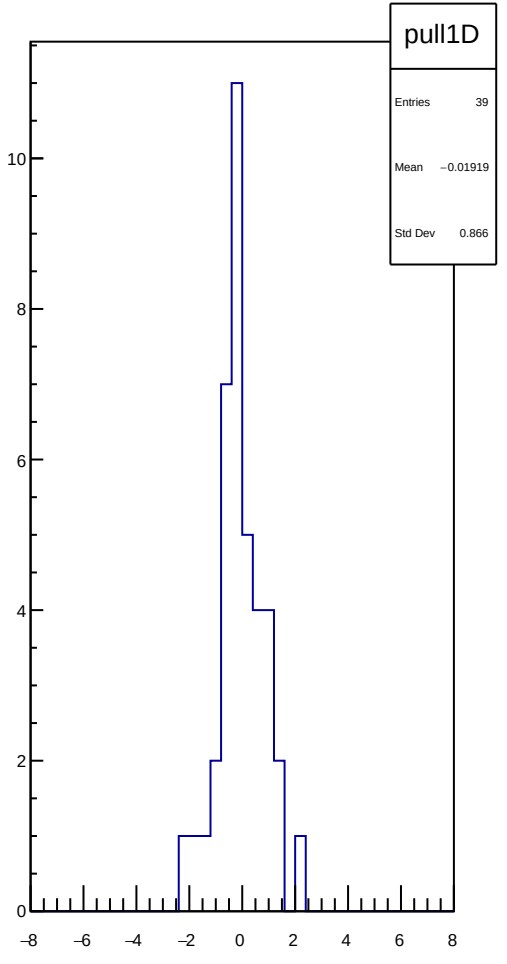

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4727 / 38
p0 100.1 ± 0.1153
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

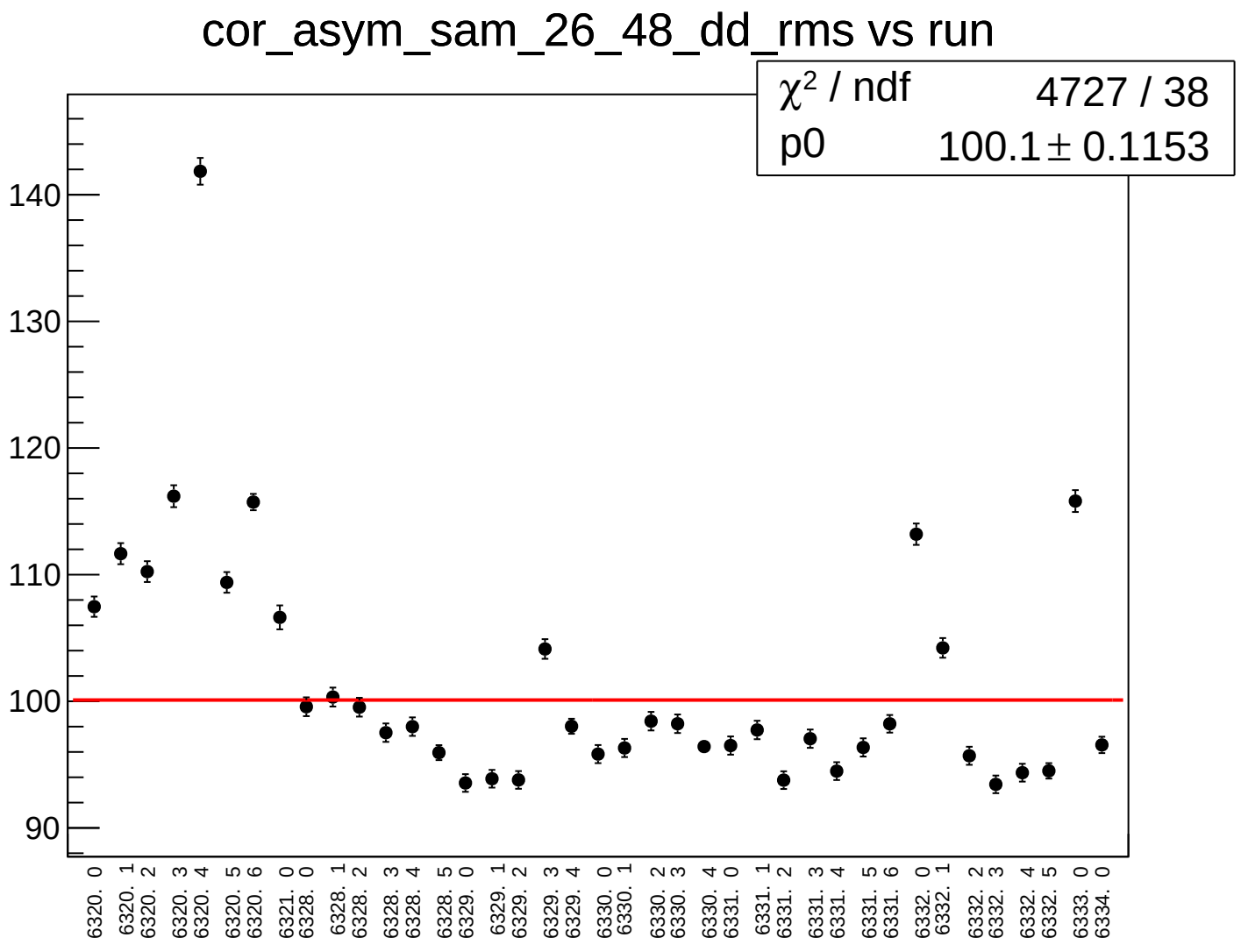

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 30.95 / 38
p0 584.4 ± 989
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 884.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

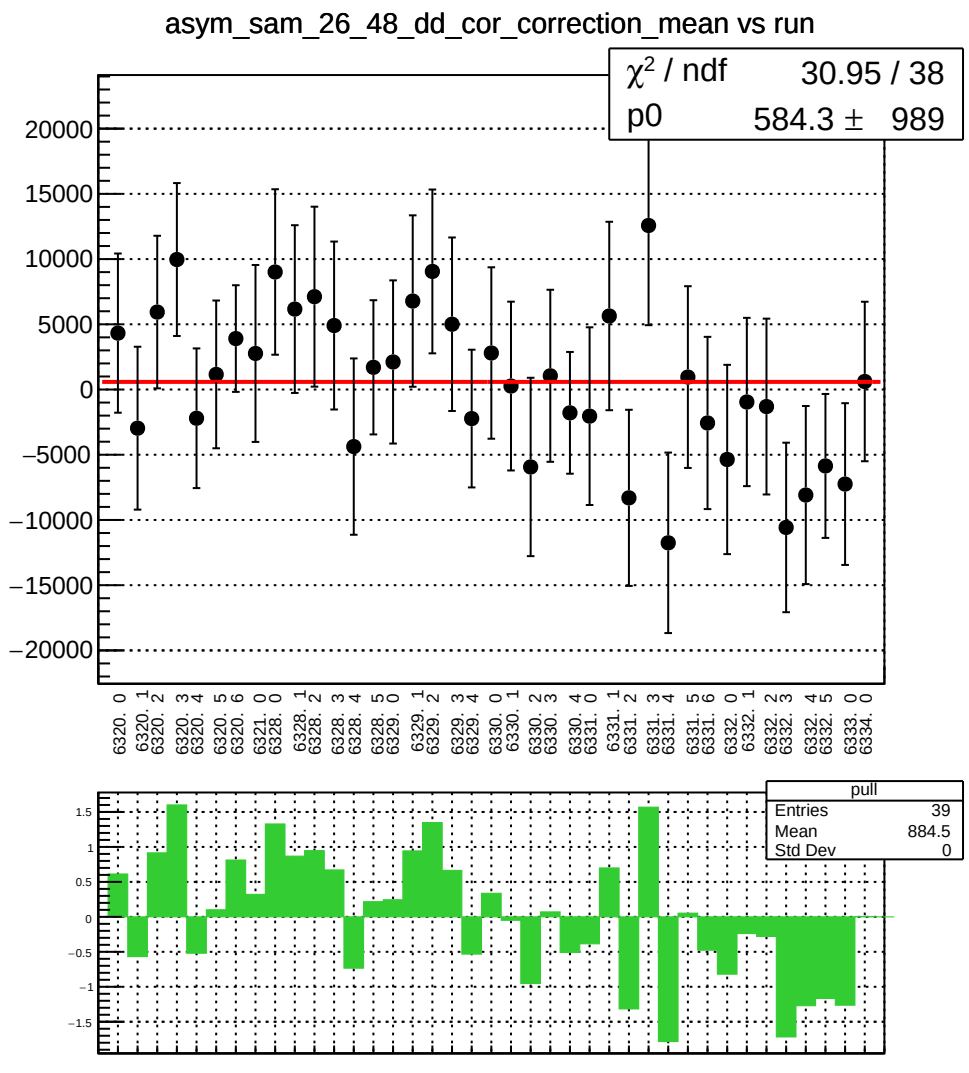

pull1D
Entries 39
Mean −0.006468
Std Dev 0.8908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

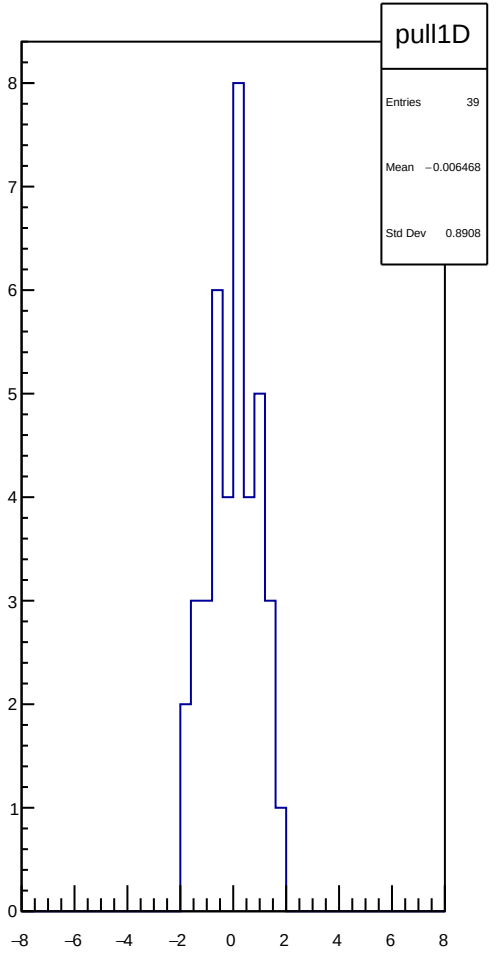

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 4493 / 38
p0 607.1 ± 0.6994
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

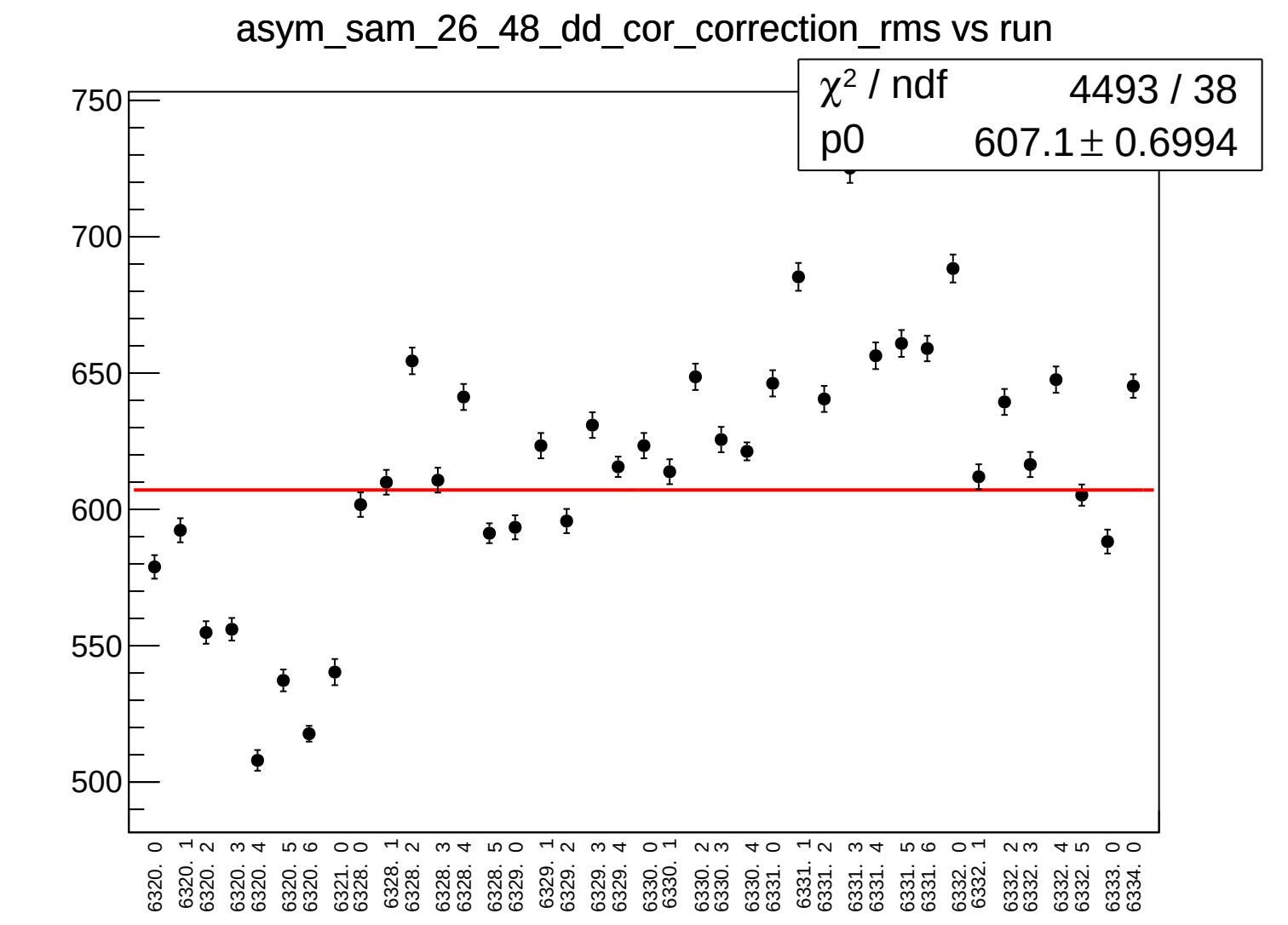

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 29.26 / 38
p0 −20.77 ± 163.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 77.37
Std Dev 0
2
1
0
−1
−2

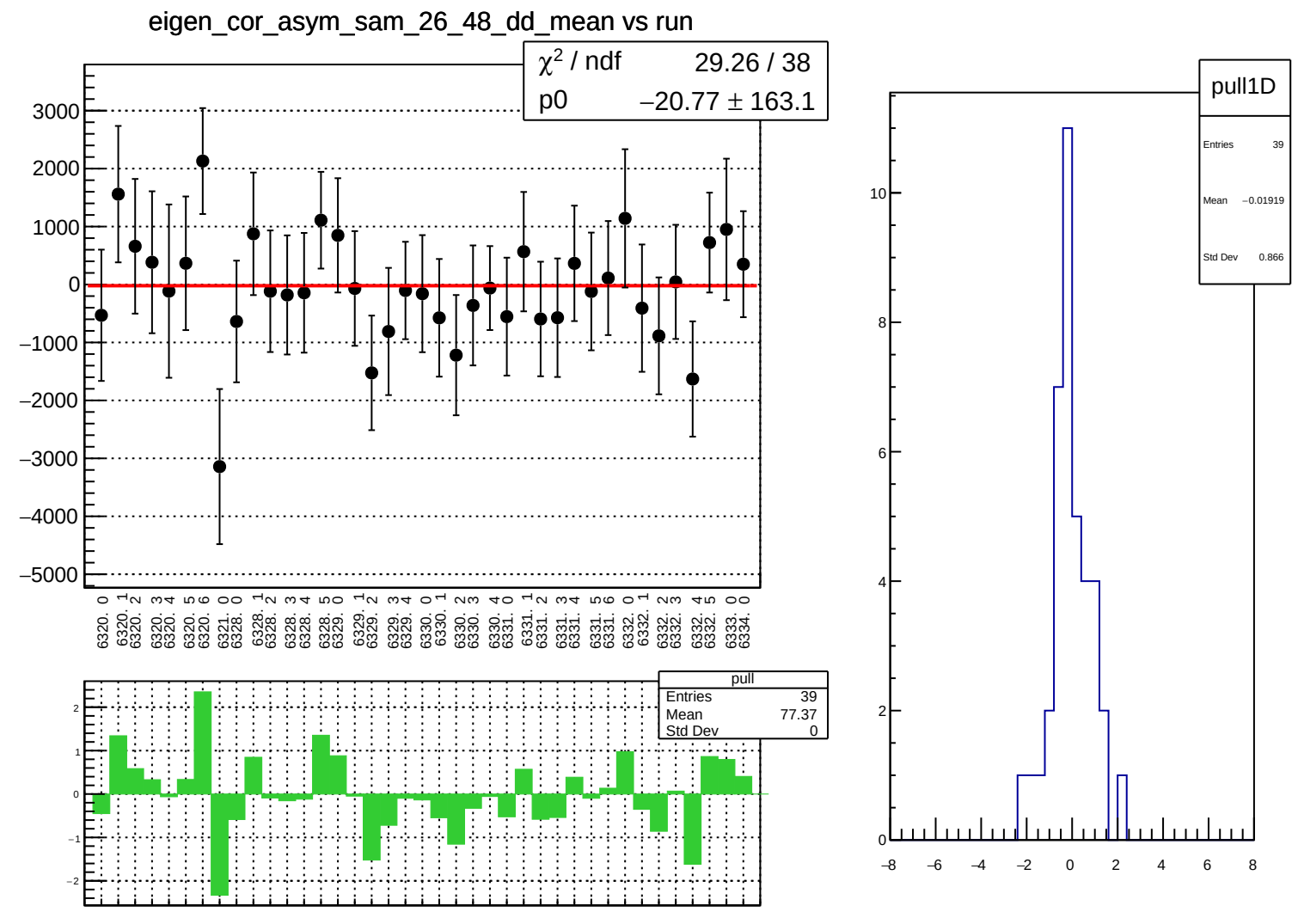

pull1D
Entries 39
Mean −0.01919
Std Dev 0.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

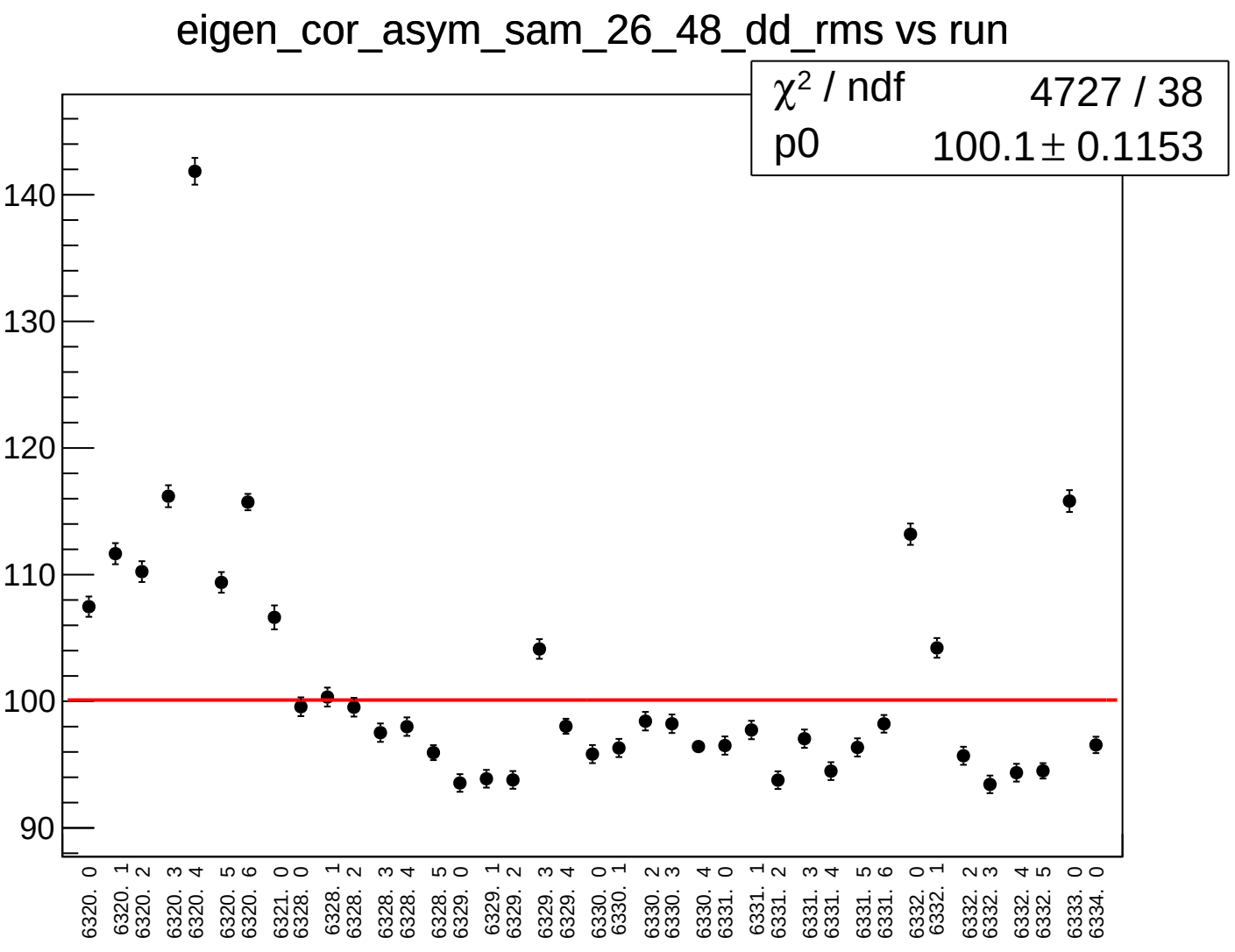

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4727 / 38
p0 100.1 ± 0.1153
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

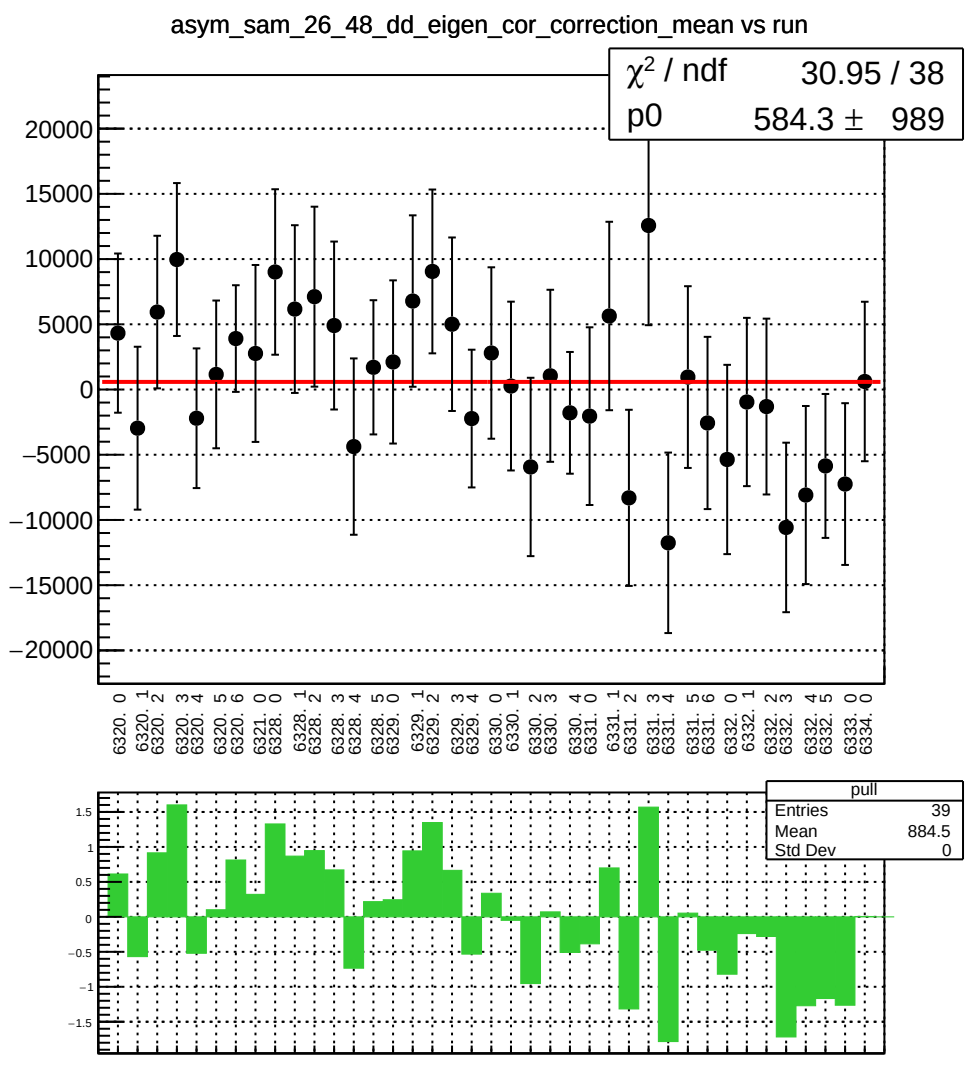

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 30.95 / 38
p0 584.3 ± 989
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 884.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

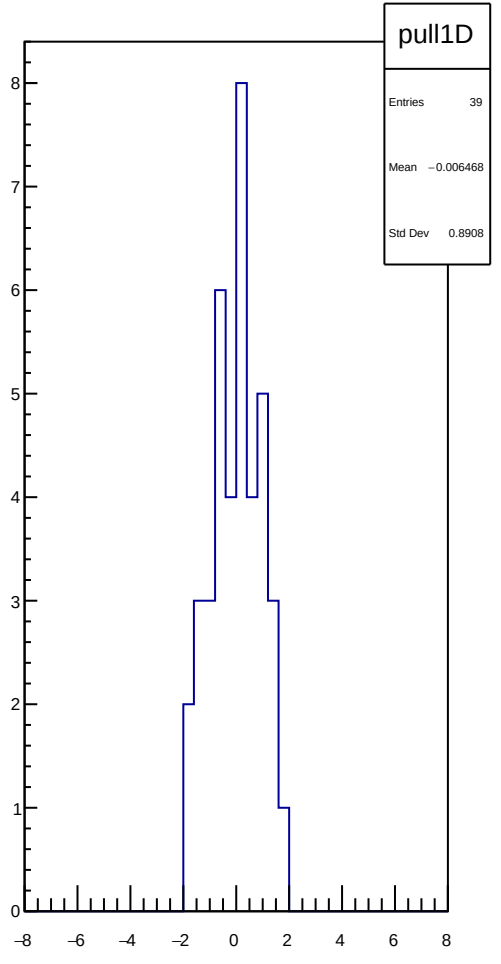

pull1D
Entries 39
Mean −0.006468
Std Dev 0.8908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

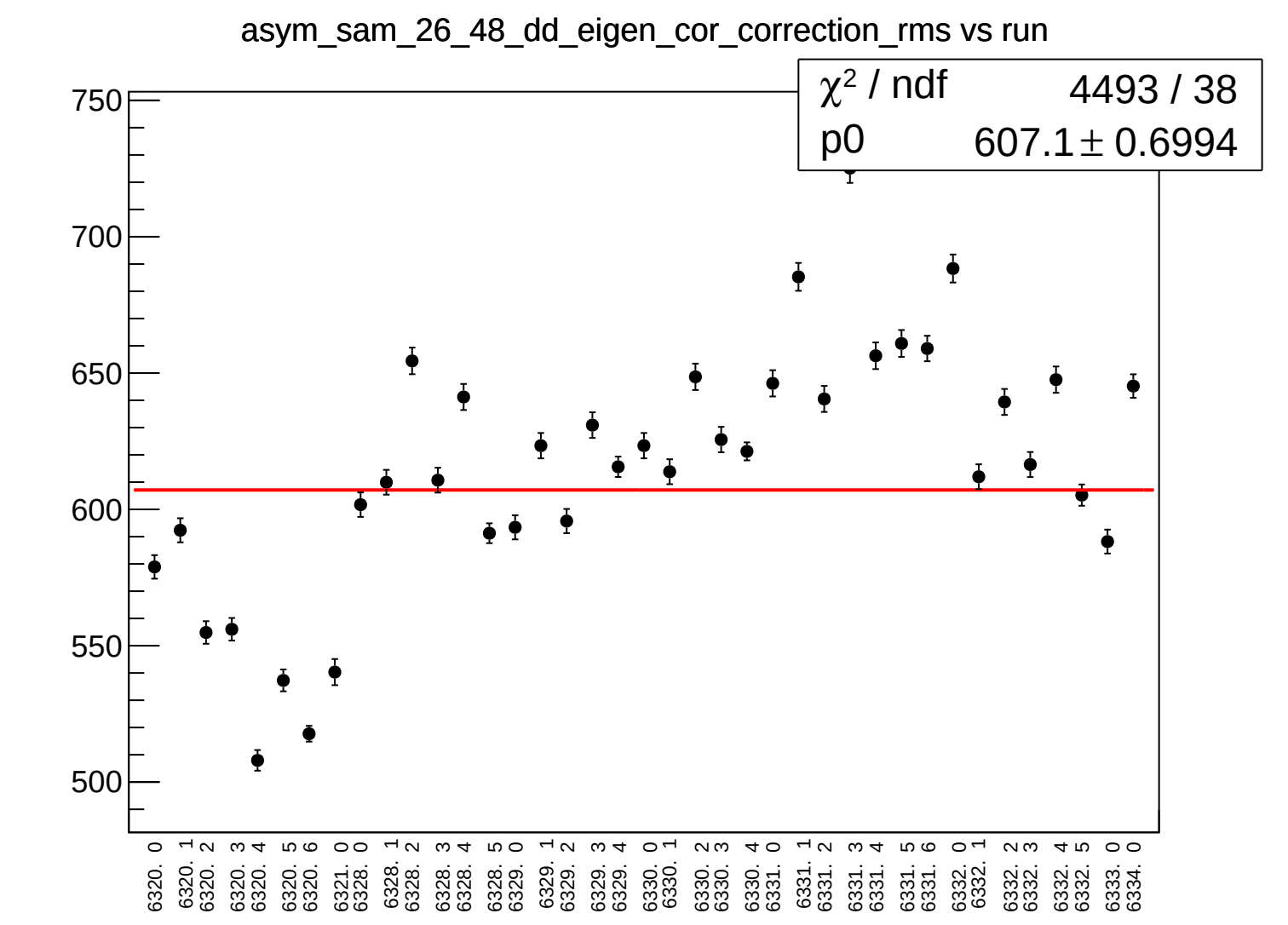

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 4493 / 38
p0 607.1 ± 0.6994
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

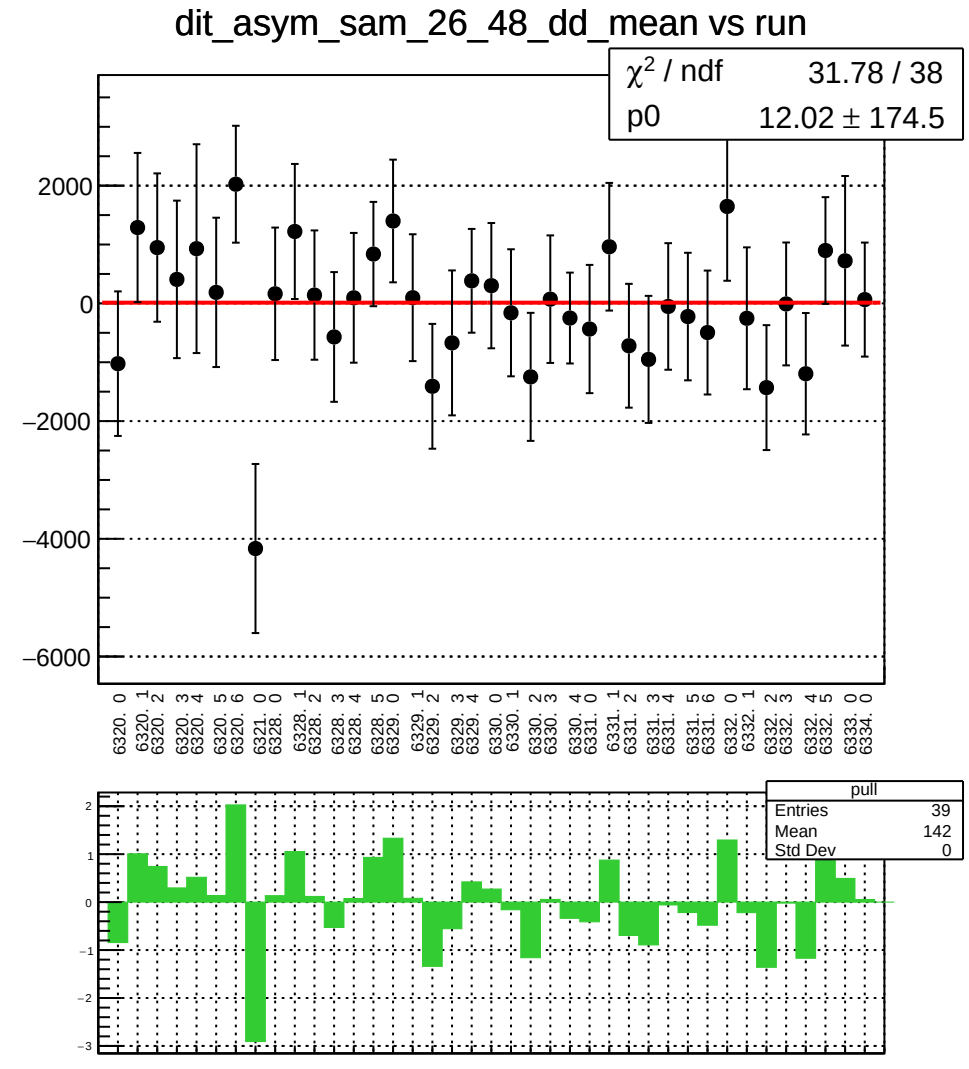

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 29.26 / 38
p0 −20.77 ± 163.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 77.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01919
Std Dev 0.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

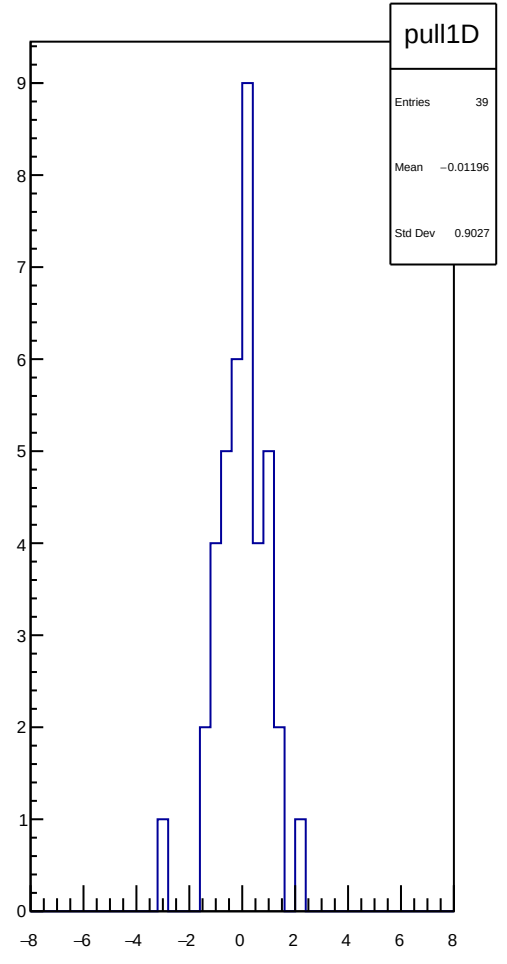

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4727 / 38
p0 100.1 ± 0.1153
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

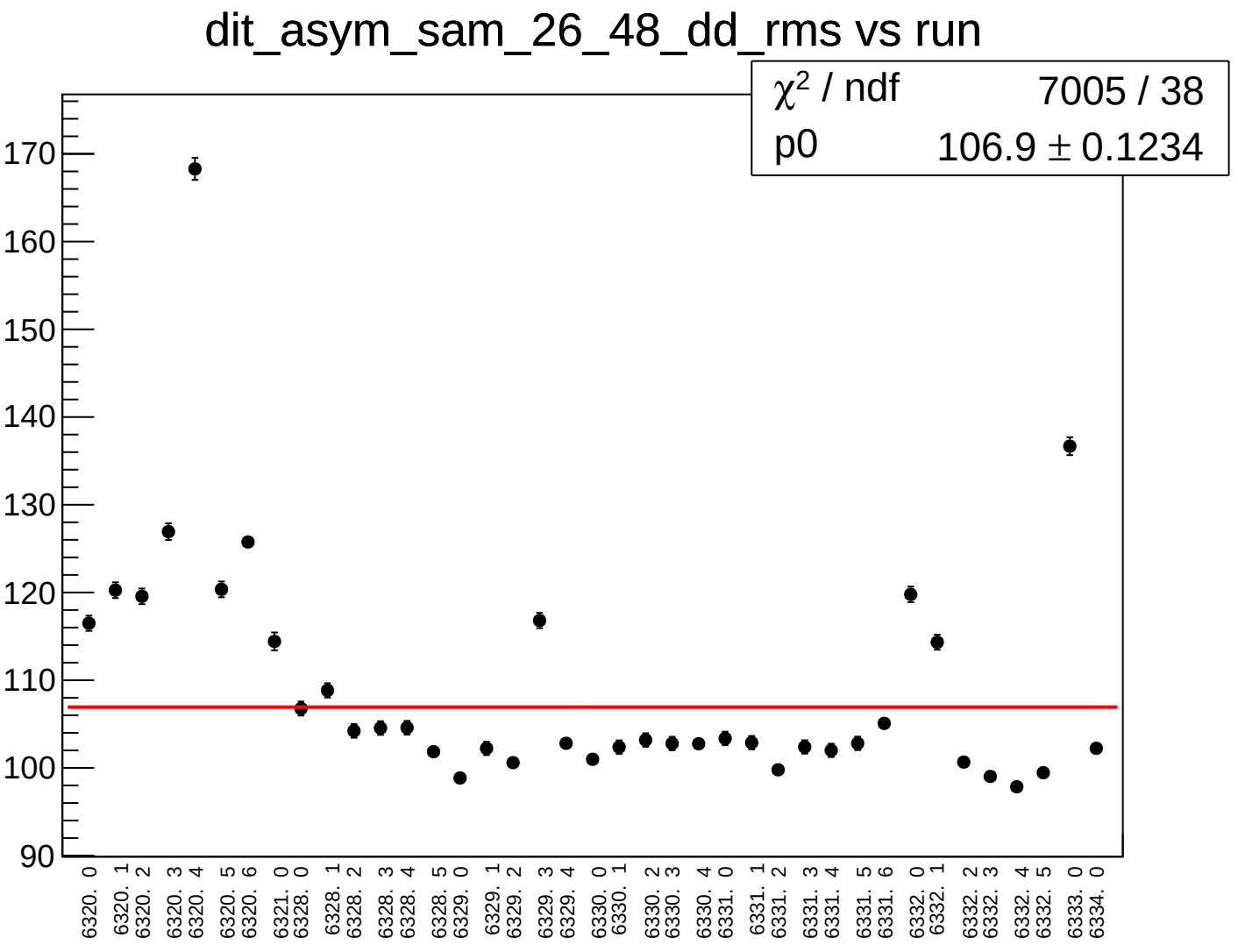

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.95 / 38
p0 584.3 ± 989
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 884.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

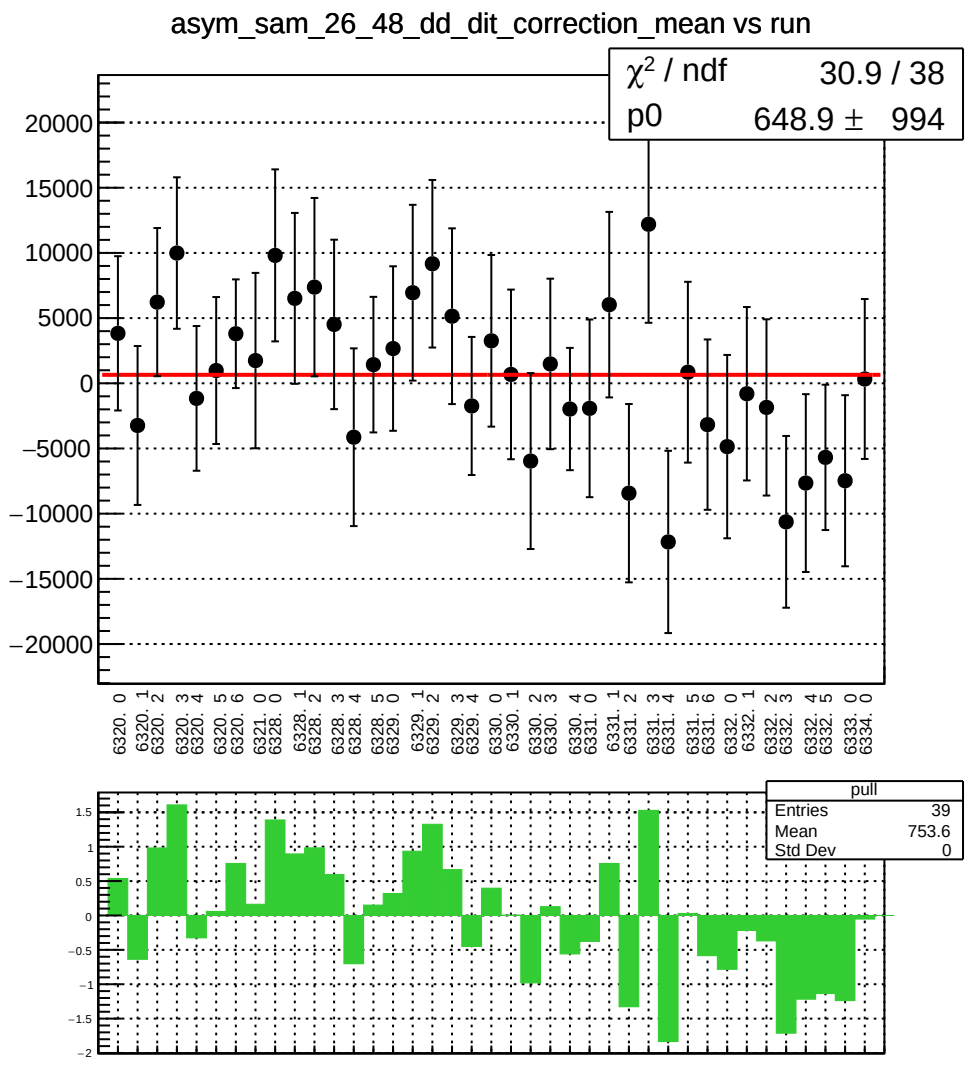

pull1D
Entries 39
Mean −0.006468
Std Dev 0.8908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

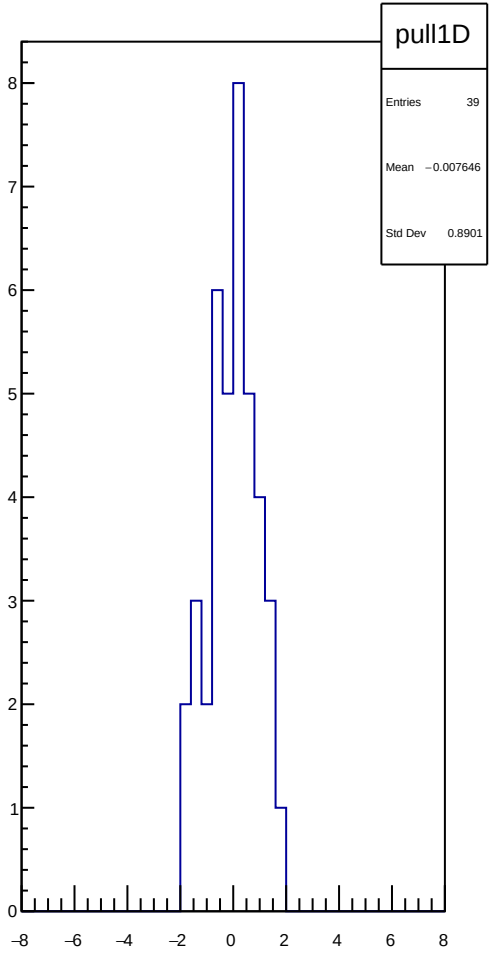

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4493 / 38
p0 607.1 ± 0.6994
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

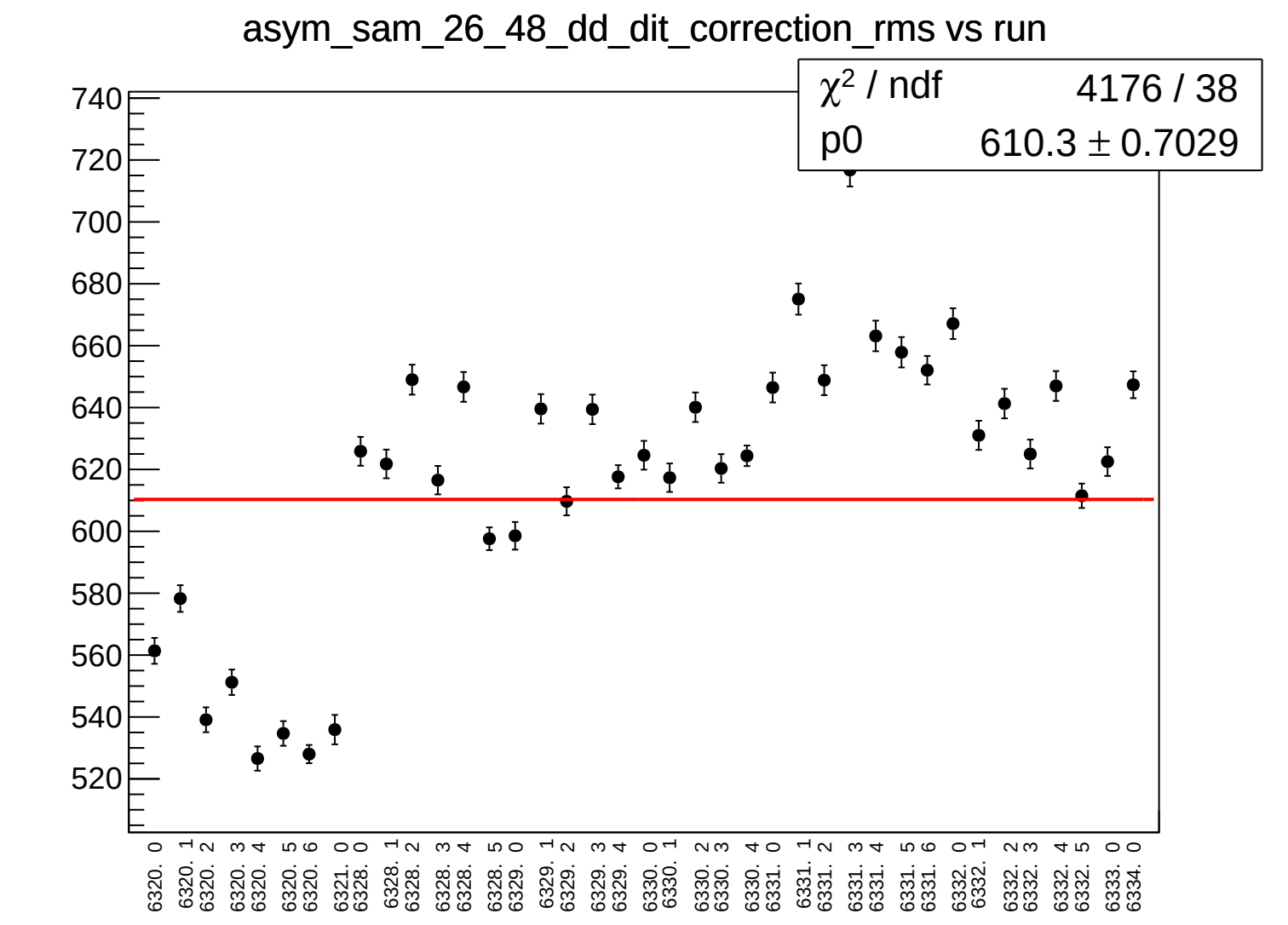

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 31.78 / 38
p0 12.02 ± 174.5
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 142
Std Dev 0
2
1
0
−1
−2
−3

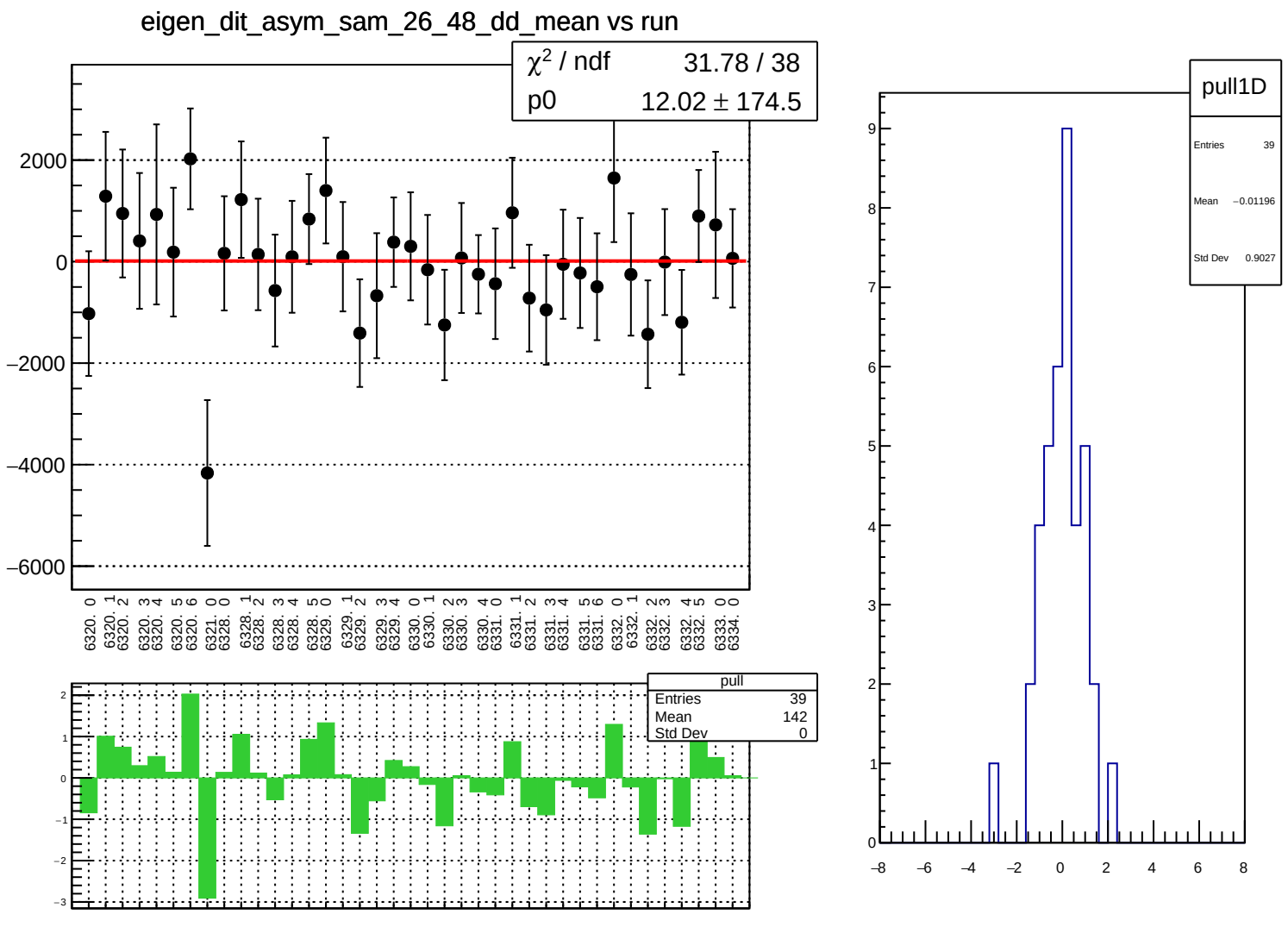

pull1D
Entries 39
Mean −0.01196
Std Dev 0.9027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

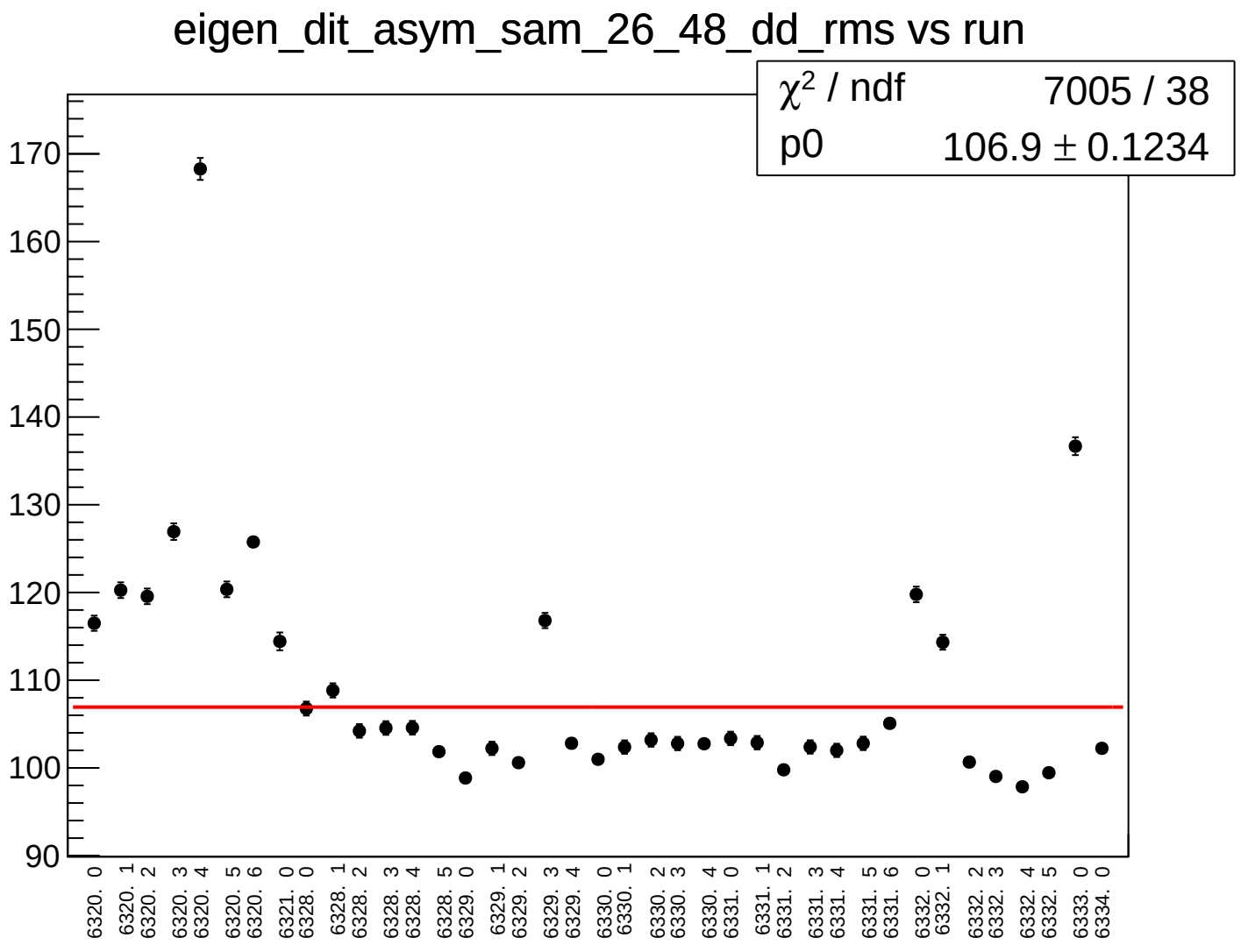

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7005 / 38
p0 106.9 ± 0.1234
170
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

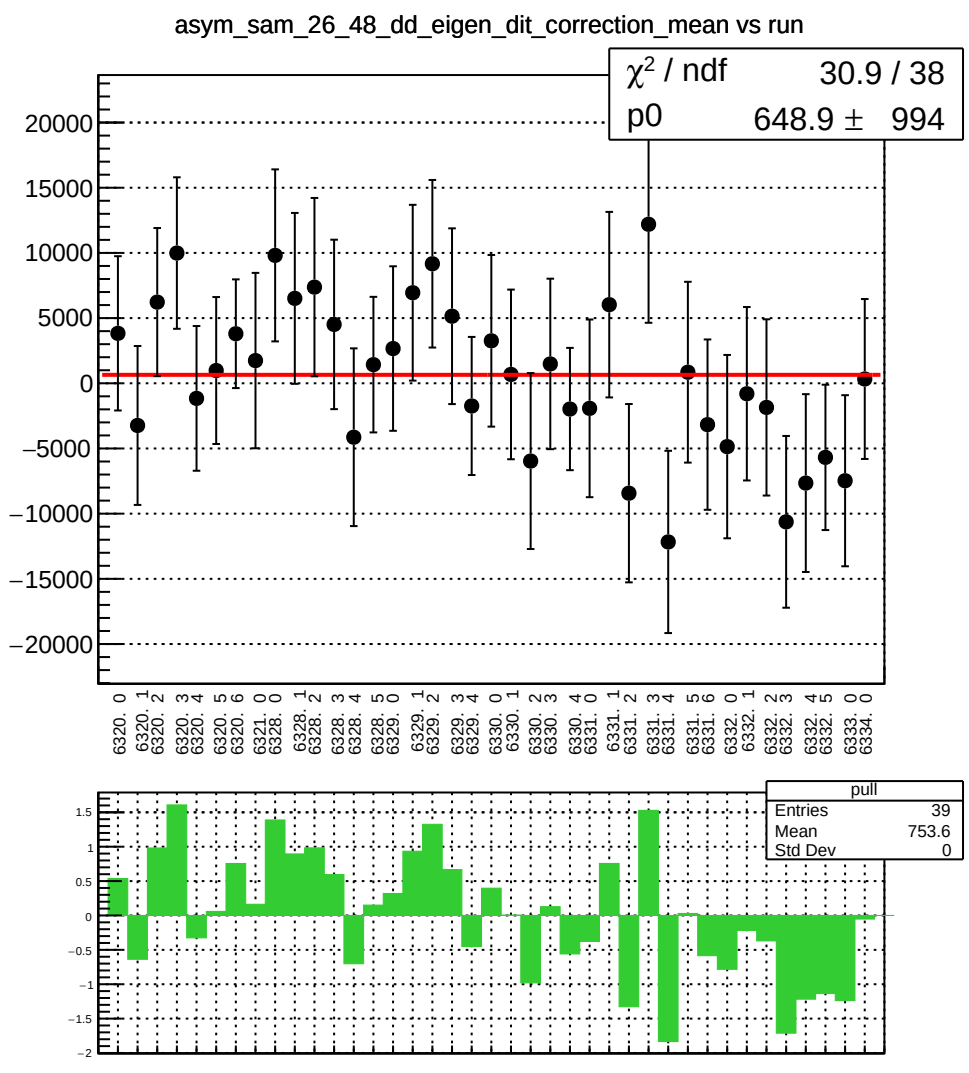

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 30.9 / 38
p0 648.9 ± 994
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 753.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

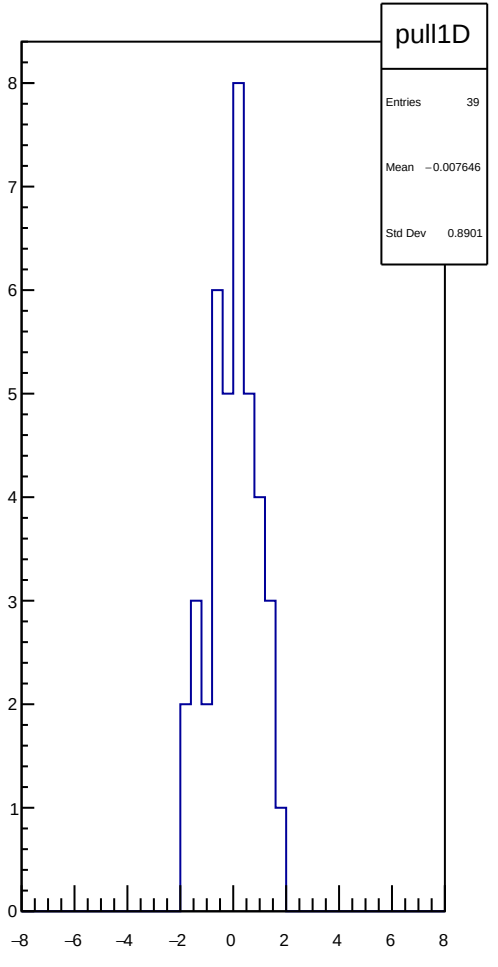

pull1D
Entries 39
Mean −0.007646
Std Dev 0.8901
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

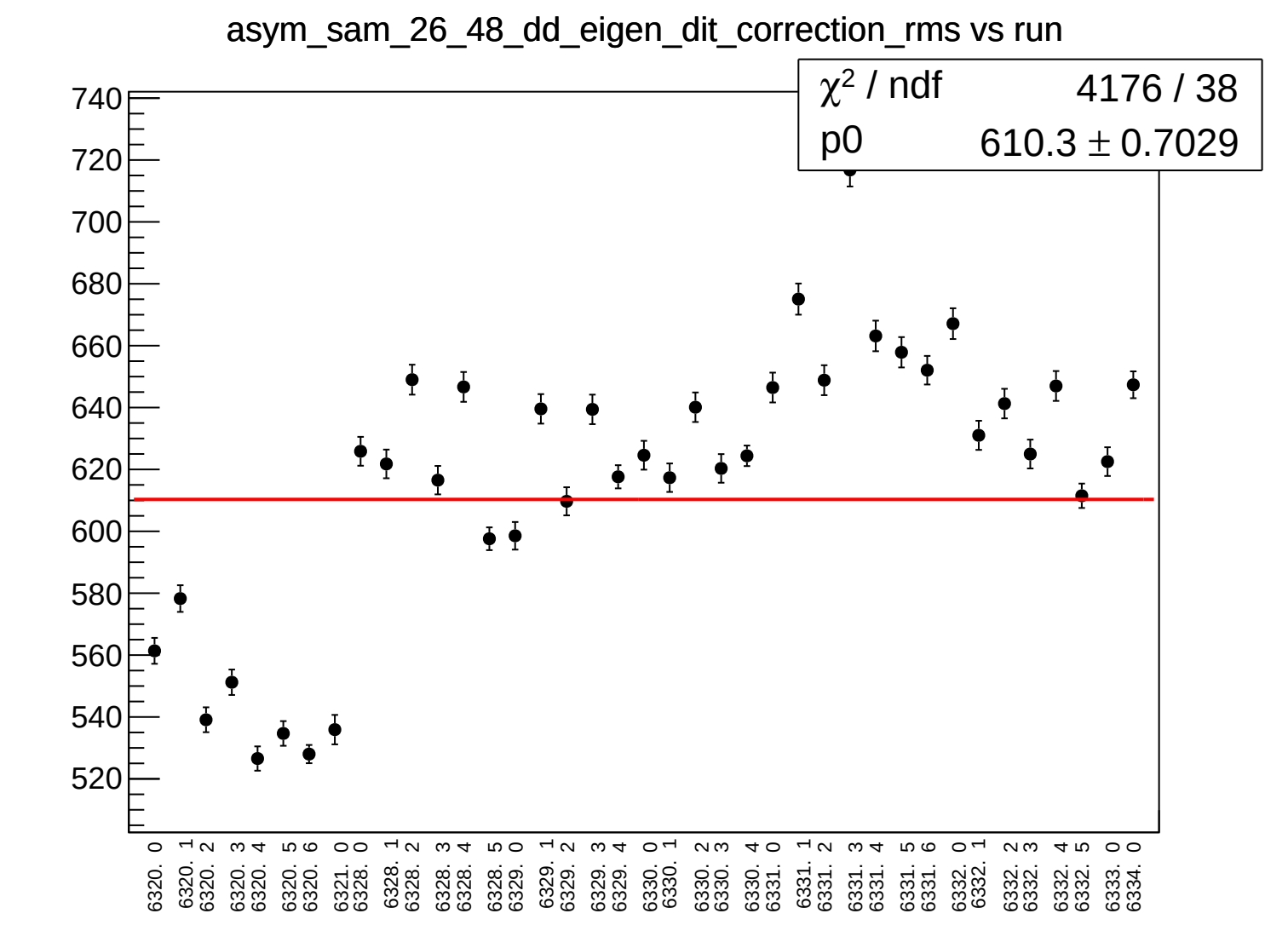

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4176 / 38
p0 610.3 ± 0.7029
740
720
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

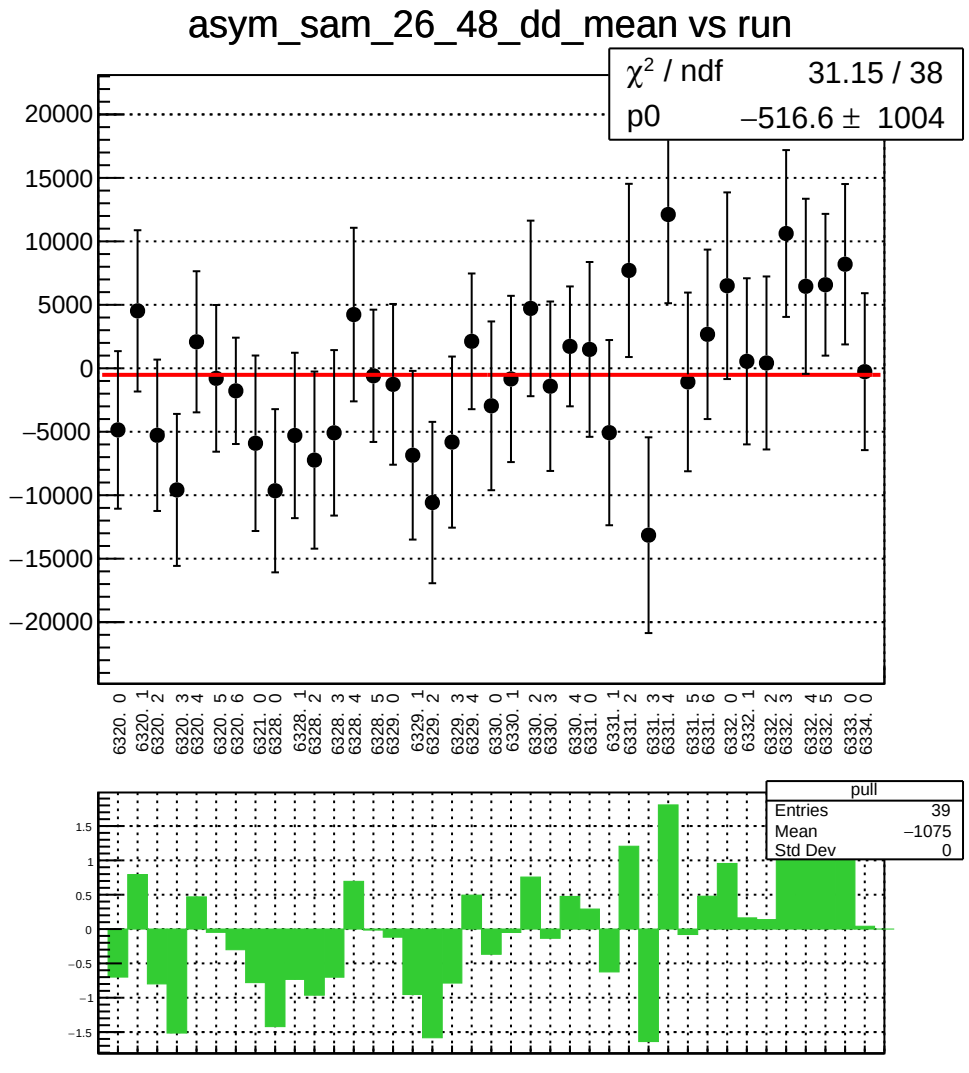

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 31.78 / 38
p0 12.02 ± 174.5
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 142
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01196
Std Dev 0.9027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

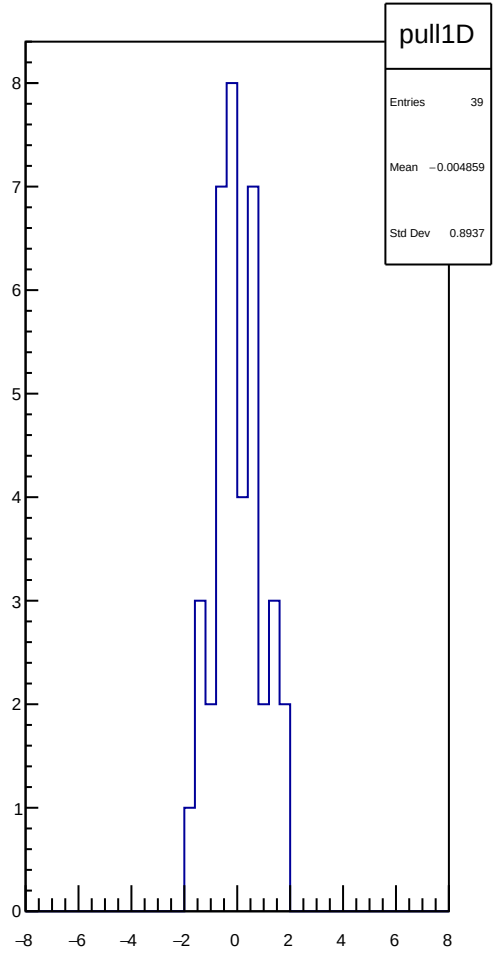

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7005 / 38
p0 106.9 ± 0.1234
170
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

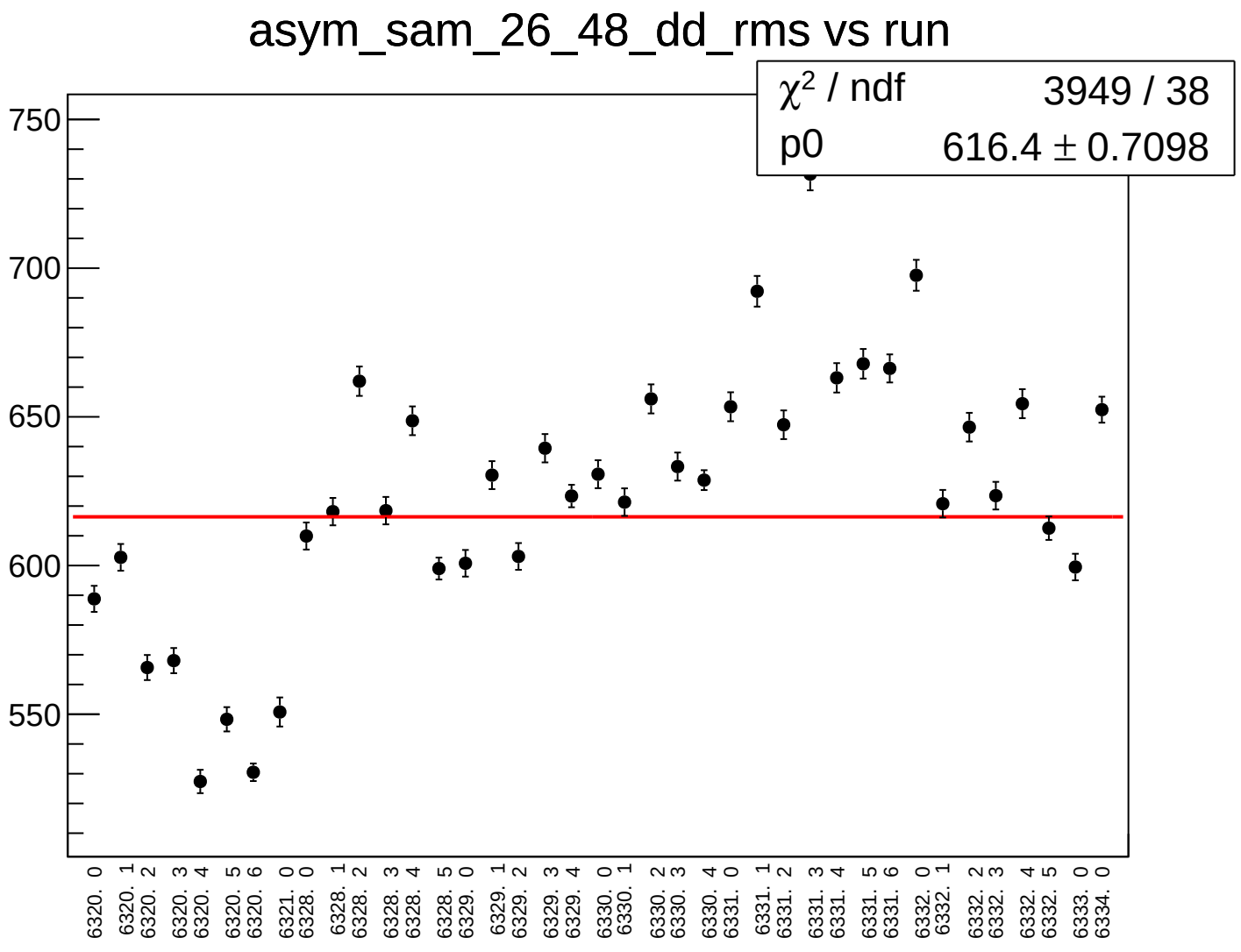

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.9 / 38
p0 648.9 ± 994
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 753.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

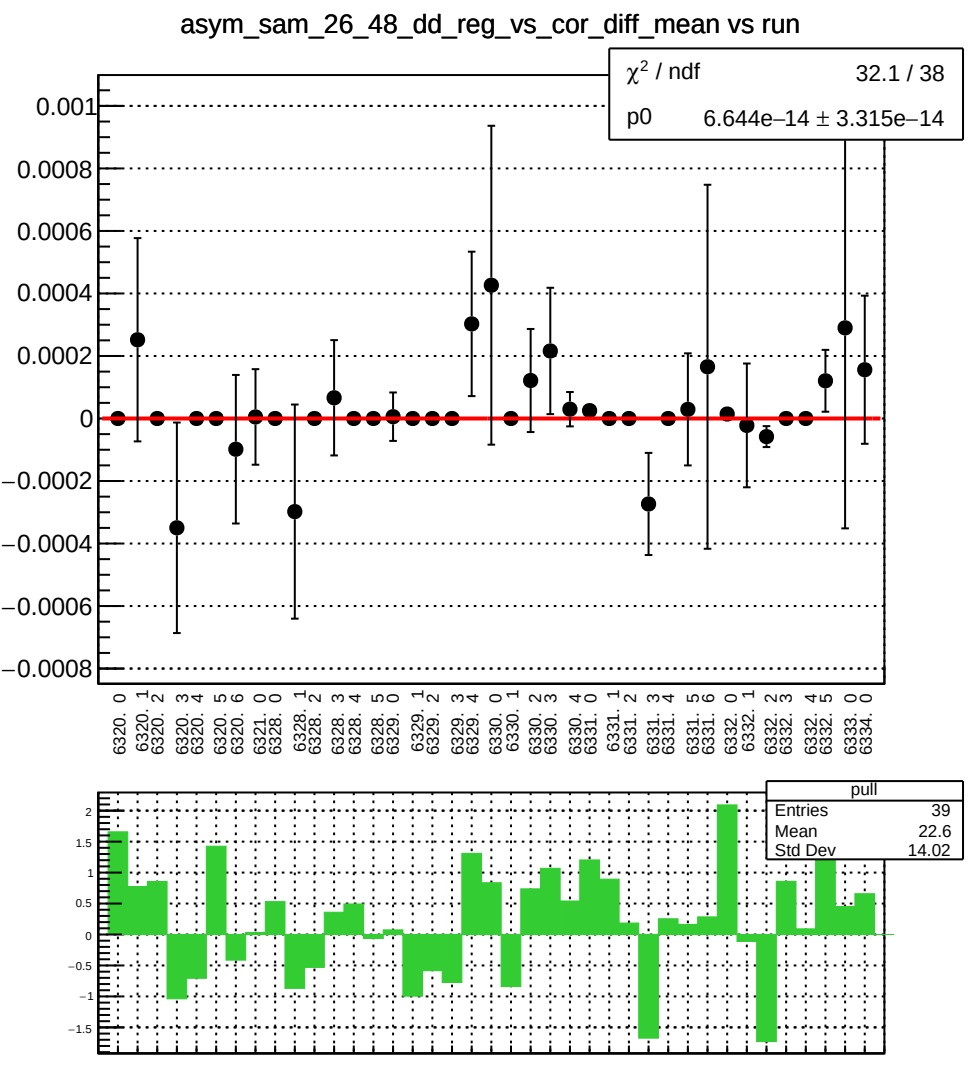

pull1D
Entries 39
Mean −0.007646
Std Dev 0.8901
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

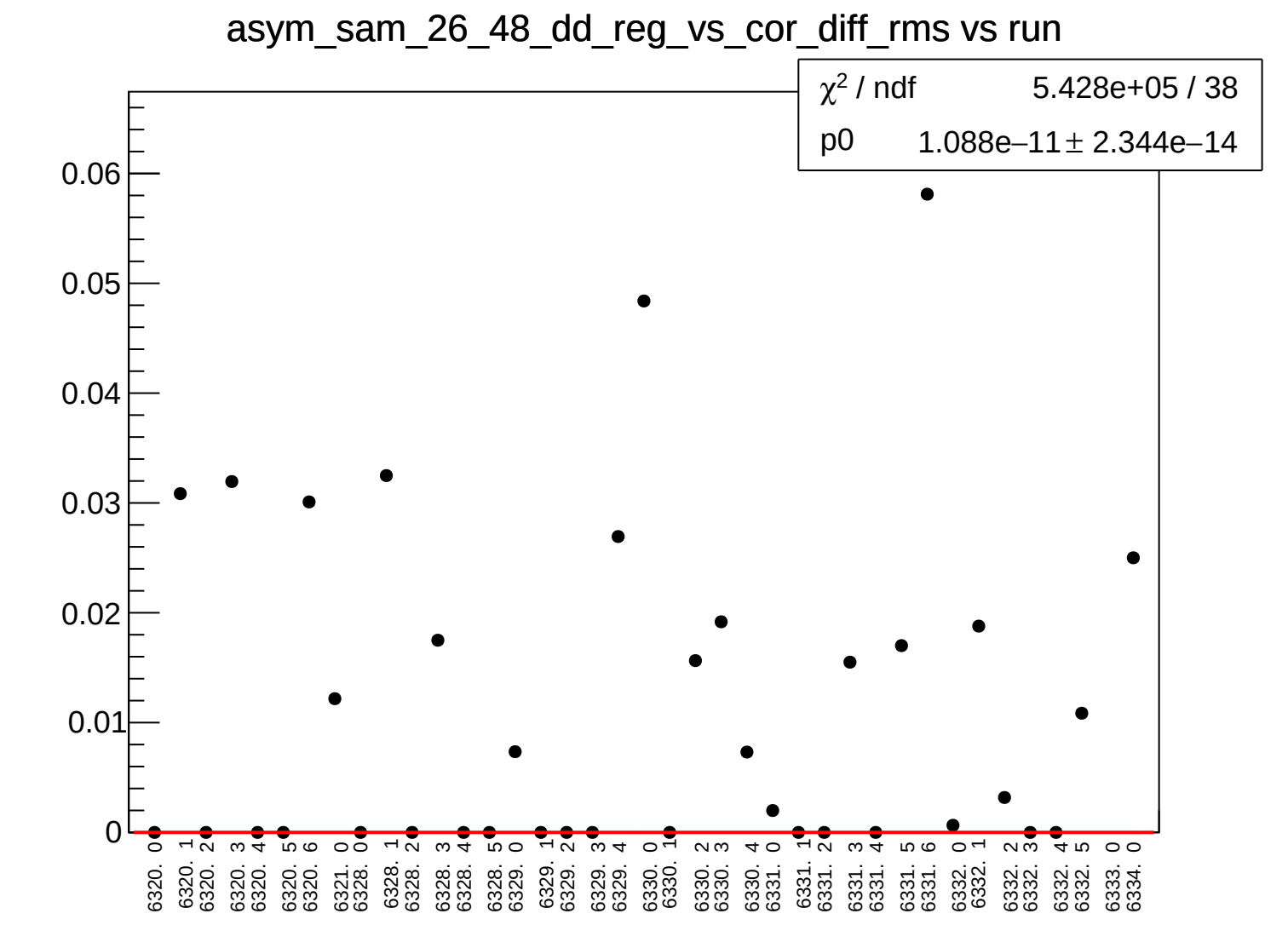

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4176 / 38
p0 610.3 ± 0.7029
740
720
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

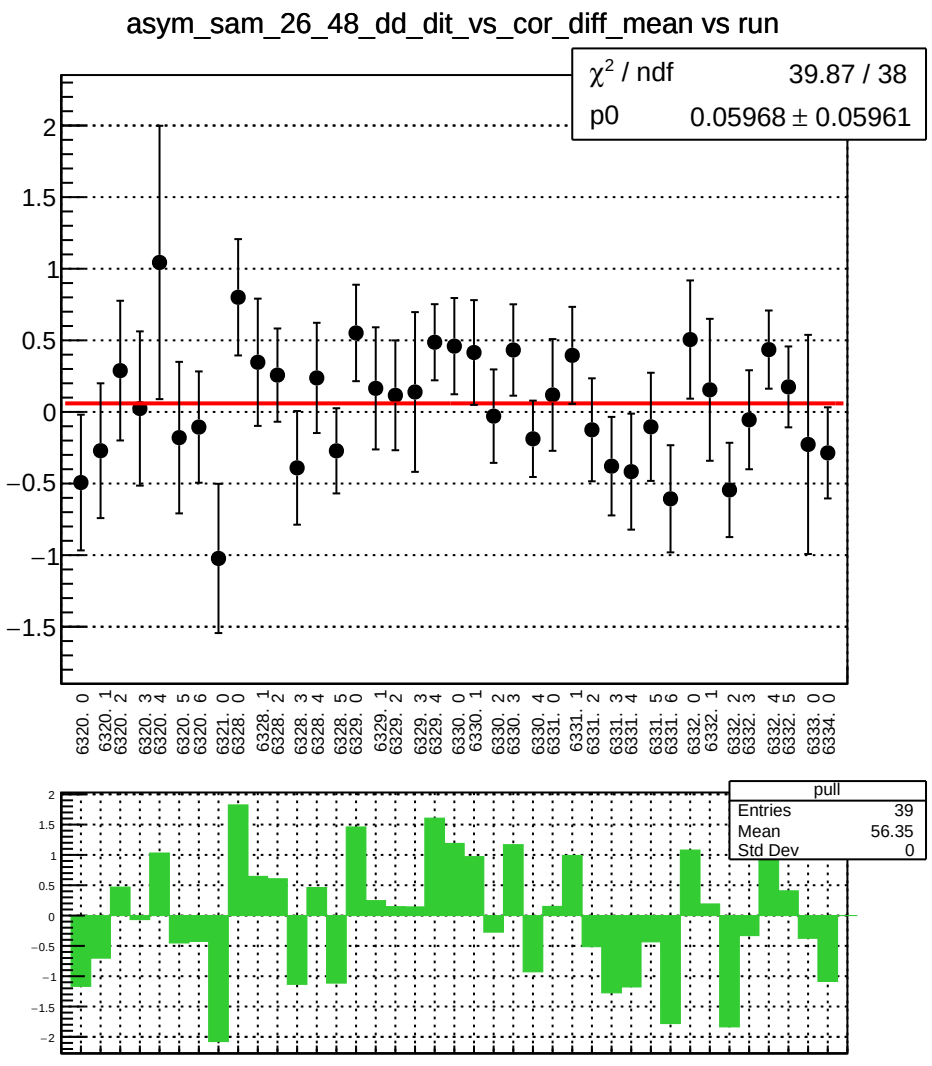

asym_sam_26_48_dd_mean vs run
χ² / ndf 31.15 / 38
p0 −516.6 ± 1004
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1075
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

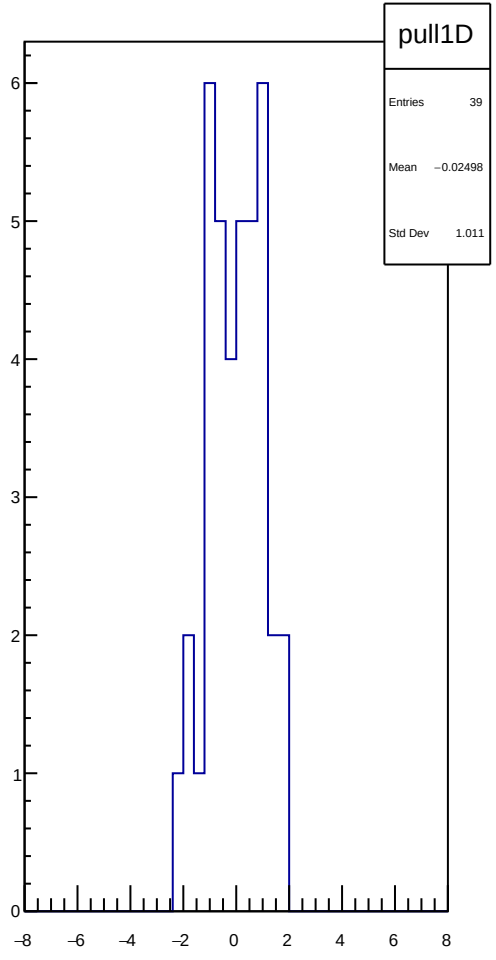

pull1D
Entries 39
Mean −0.004859
Std Dev 0.8937
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

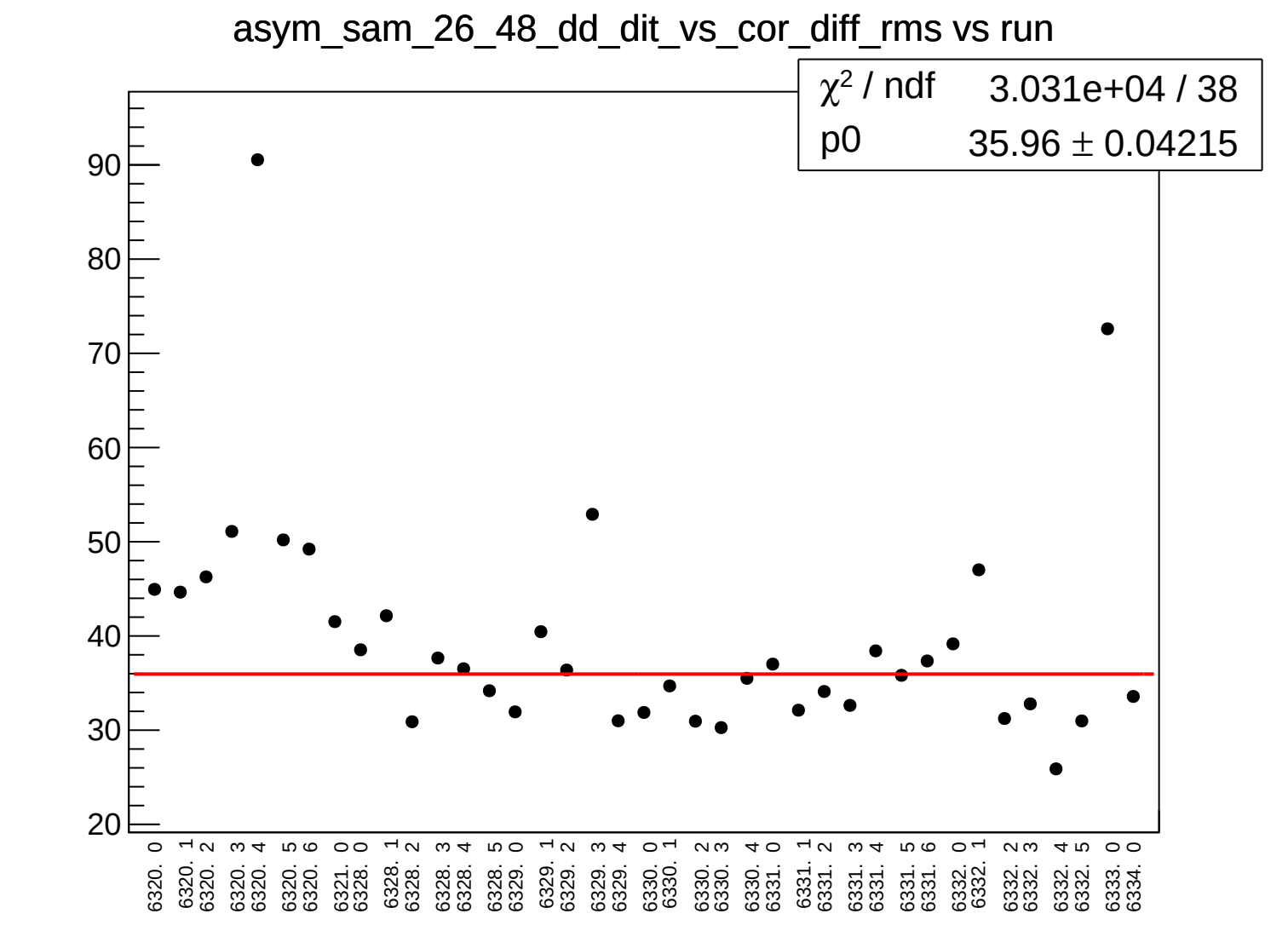

asym_sam_26_48_dd_rms vs run
χ² / ndf 3949 / 38
p0 616.4 ± 0.7098
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

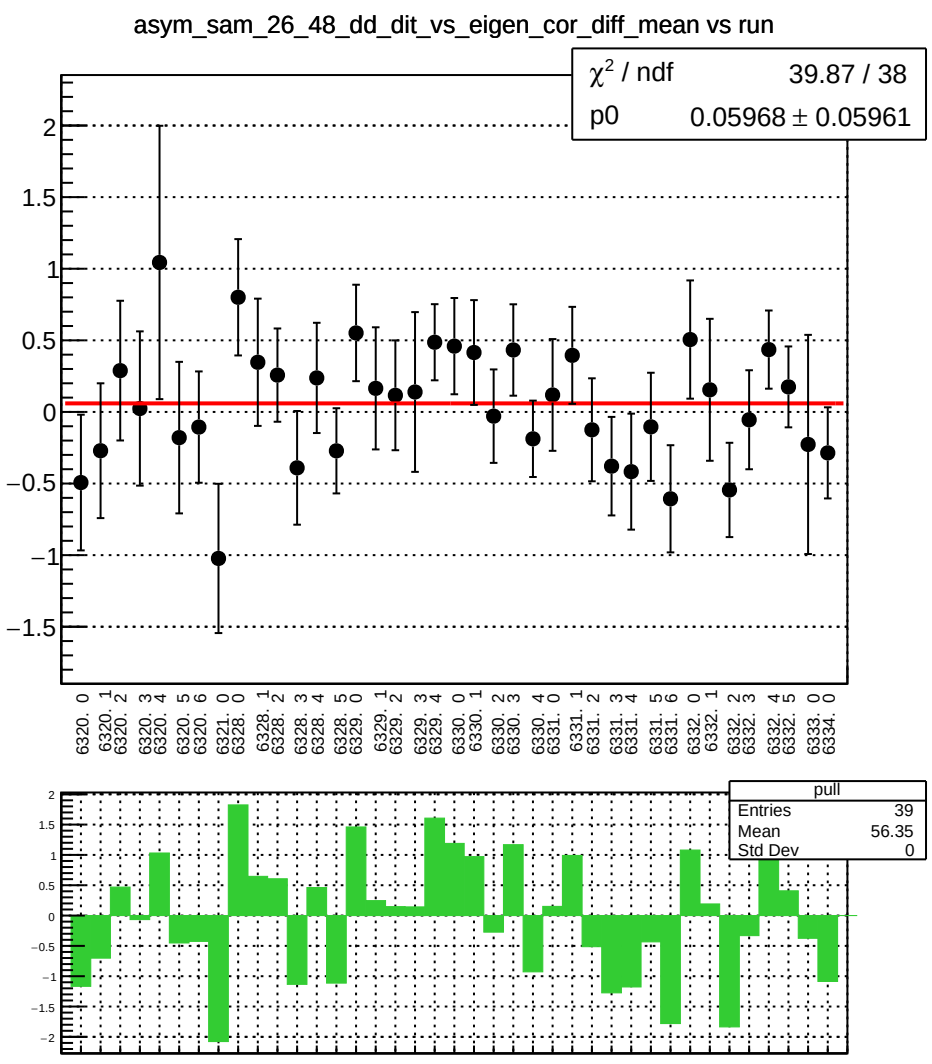

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.1 / 38
p0 6.644e−14 ± 3.315e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 22.6
Std Dev 14.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.2236
Std Dev 0.8792
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

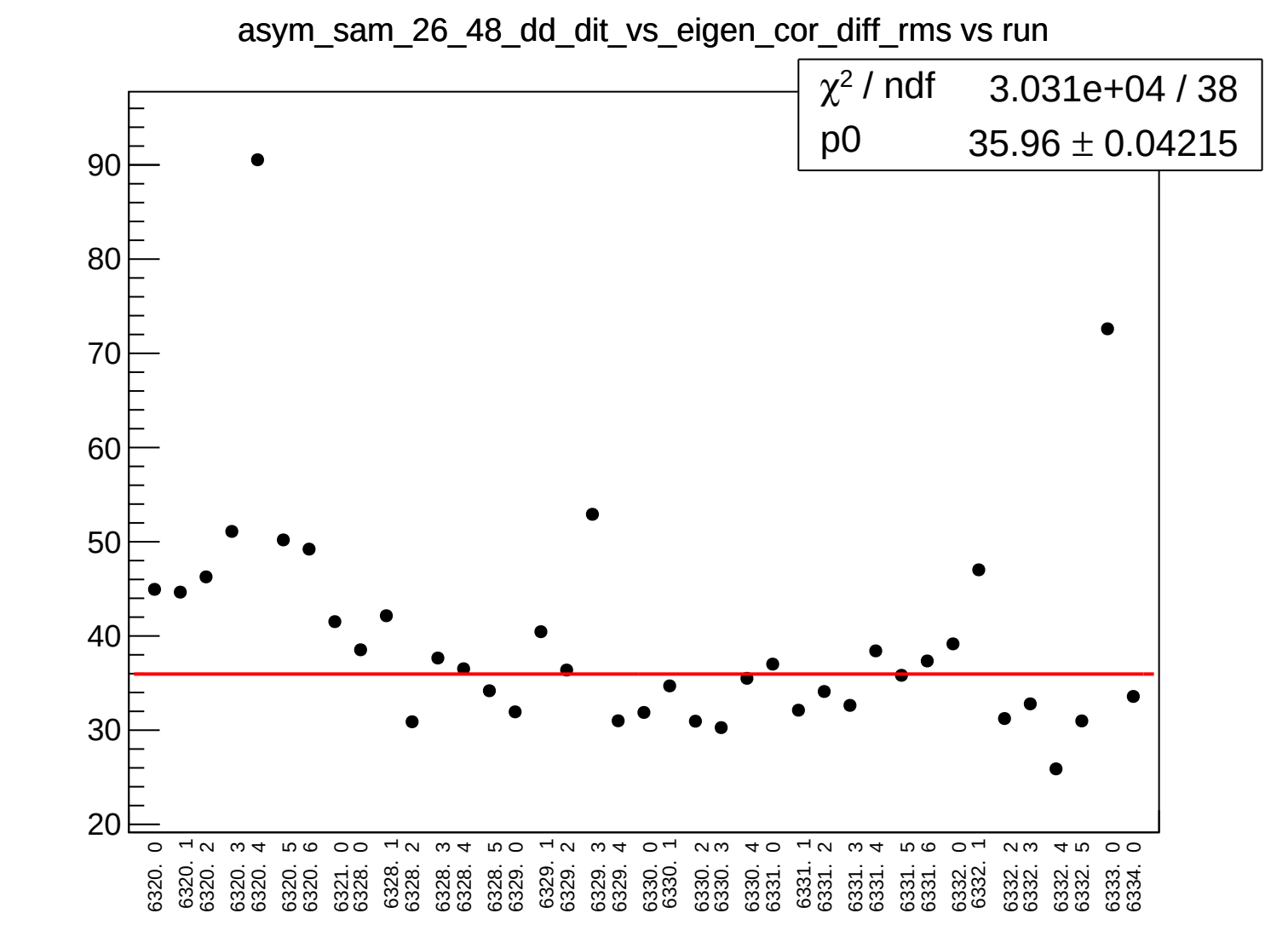

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.428e+05 / 38
p0 1.088e−11 ± 2.344e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

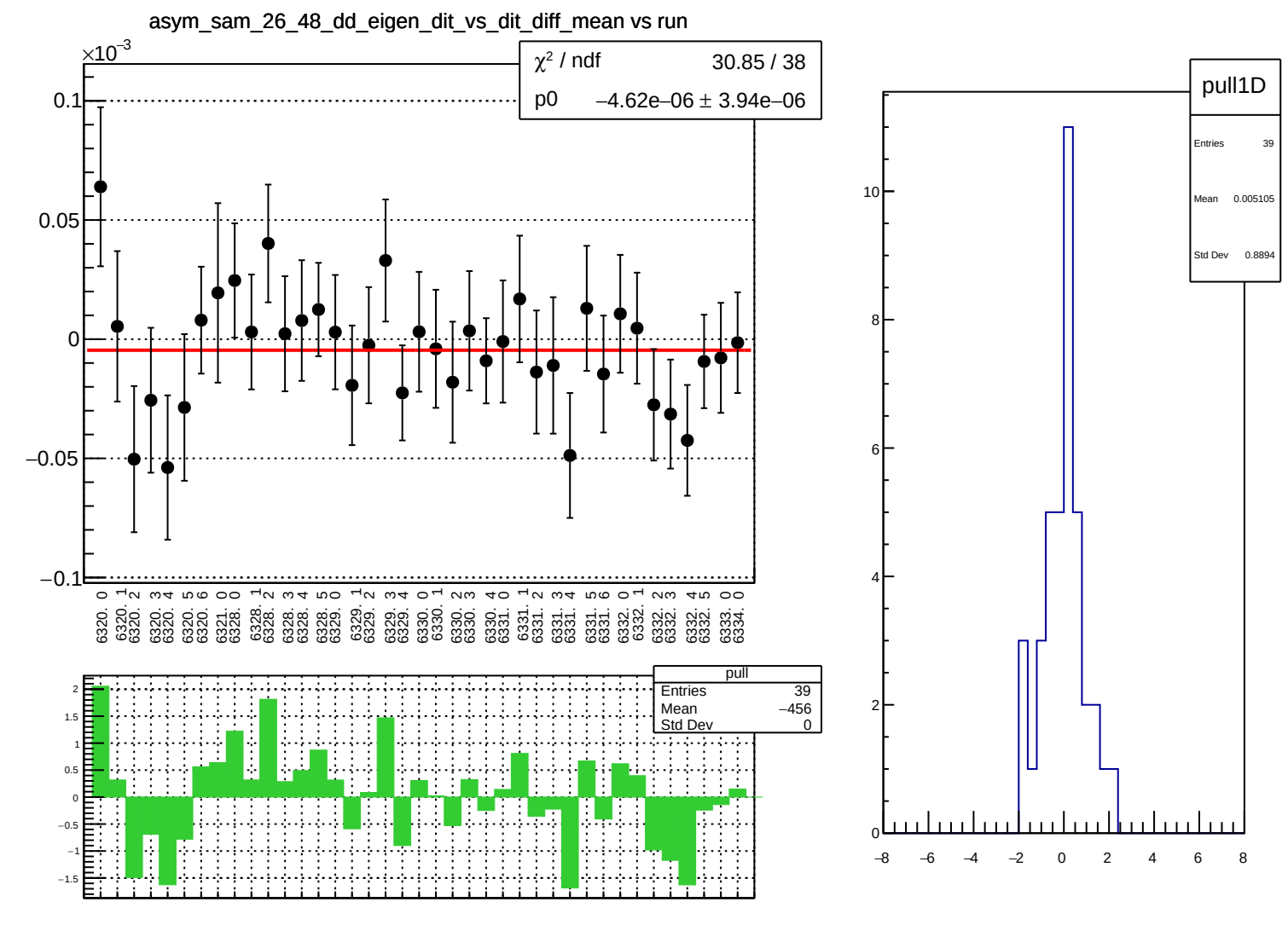

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.87 / 38
p0 0.05968 ± 0.05961
pull
Entries 39
Mean 56.35
Std Dev 0

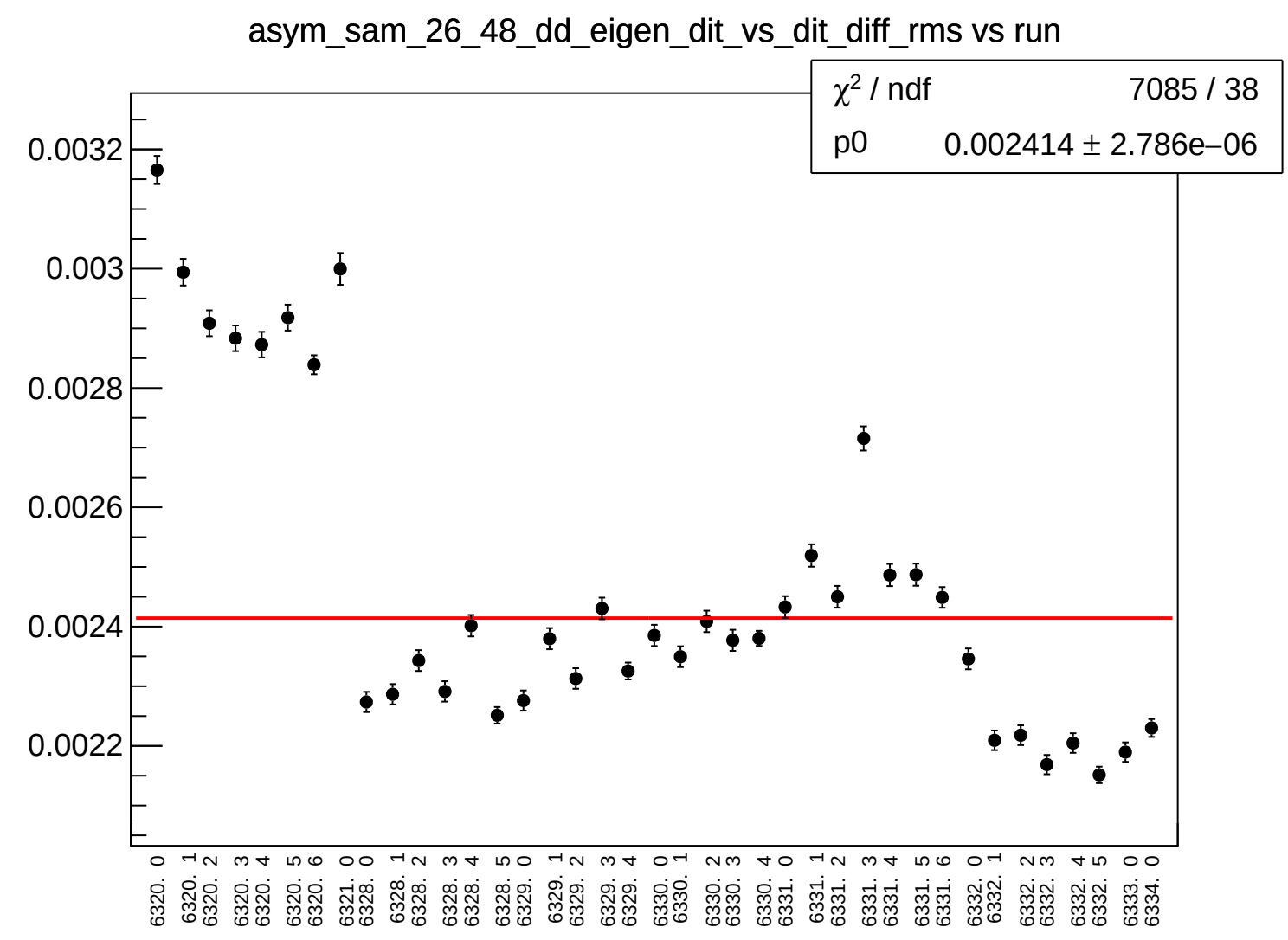

pull1D
Entries 39
Mean −0.02498
Std Dev 1.011

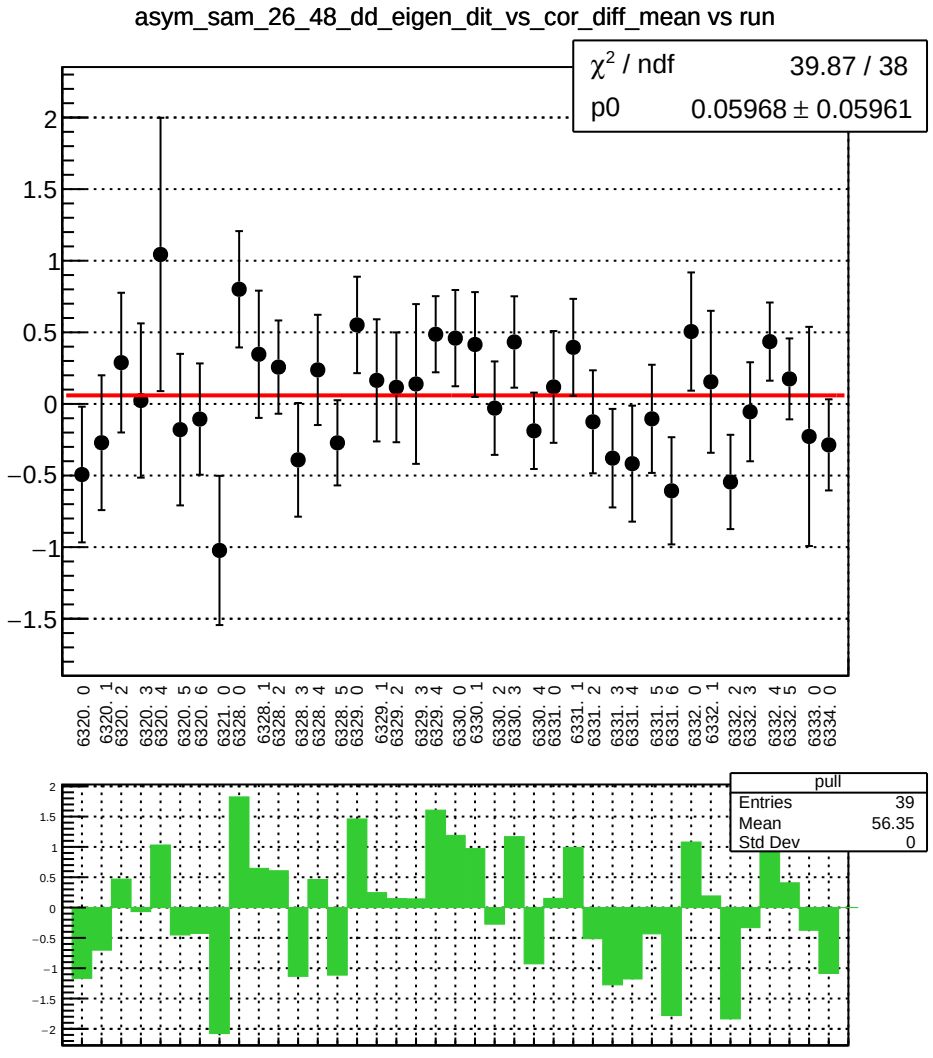

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.031e+04 / 38
p0 35.96 ± 0.04215
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

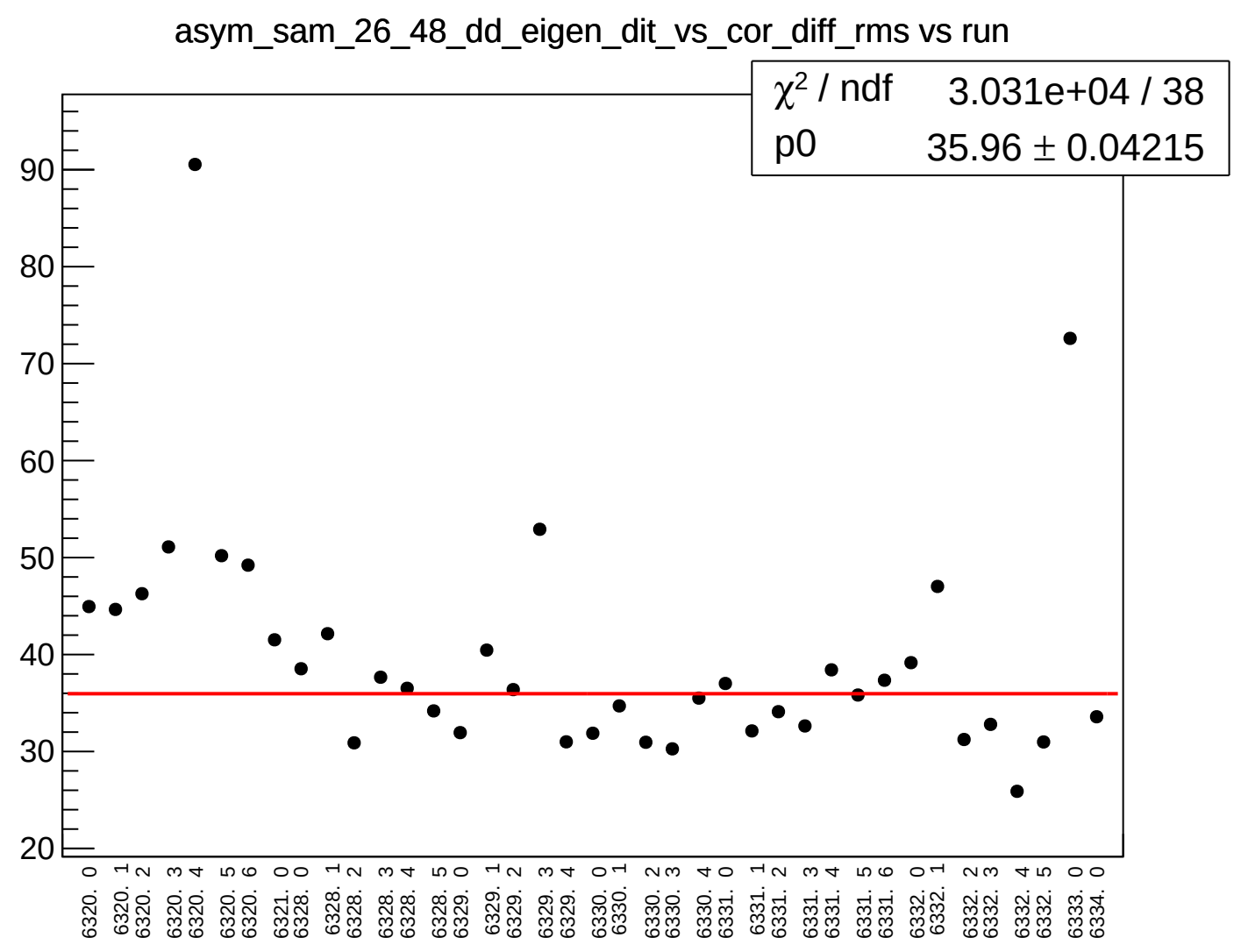

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.87 / 38
p0 0.05968 ± 0.05961
pull
Entries 39
Mean 56.35
Std Dev 0
pull1D
Entries 39
Mean −0.02498
Std Dev 1.011


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.031e+04 / 38
p0 35.96 ± 0.04215
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

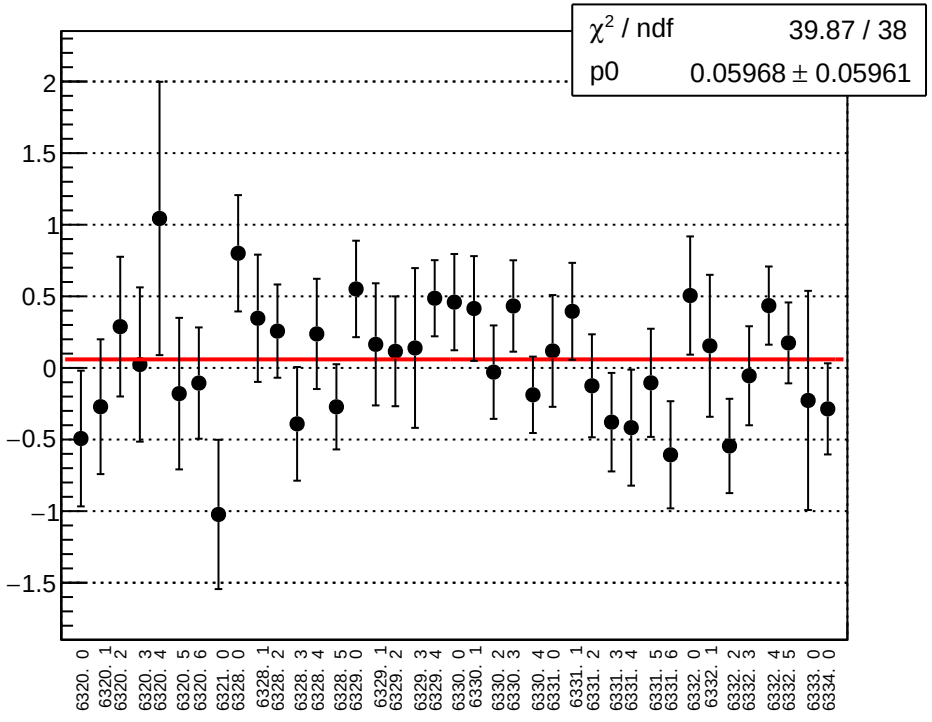

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.85 / 38
p0 −4.62e−06 ± 3.94e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −456
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.005105
Std Dev 0.8894
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

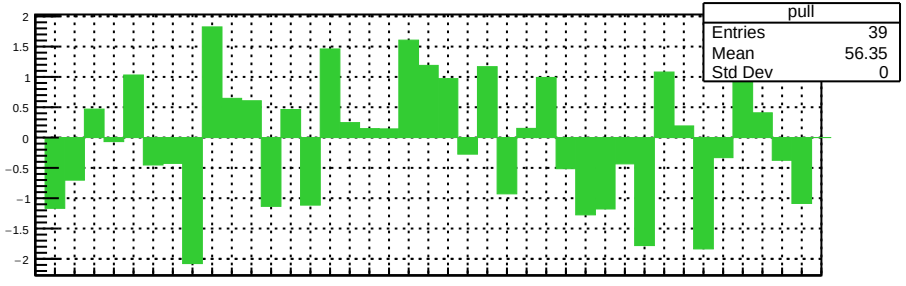

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7085 / 38
p0 0.002414 ± 2.786e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

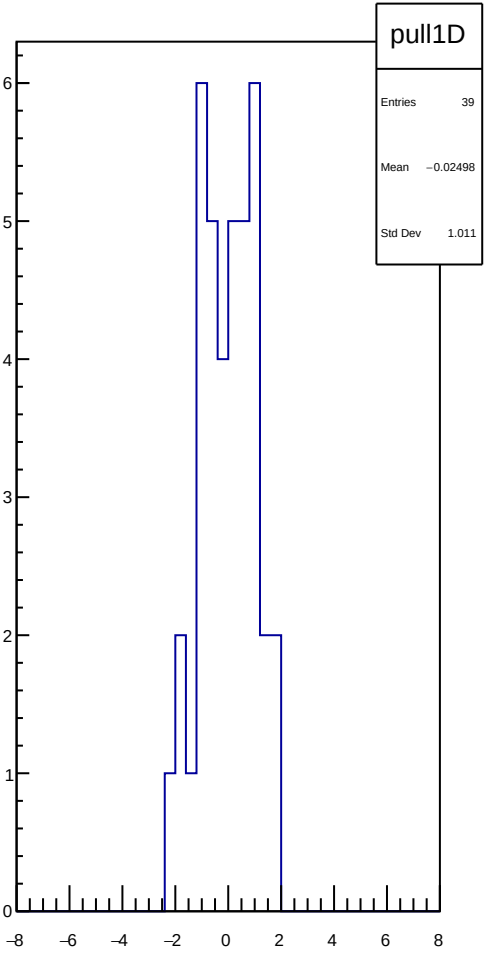

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.87 / 38
p0 0.05968 ± 0.05961
pull
Entries 39
Mean 56.35
Std Dev 0
pull1D
Entries 39
Mean −0.02498
Std Dev 1.011

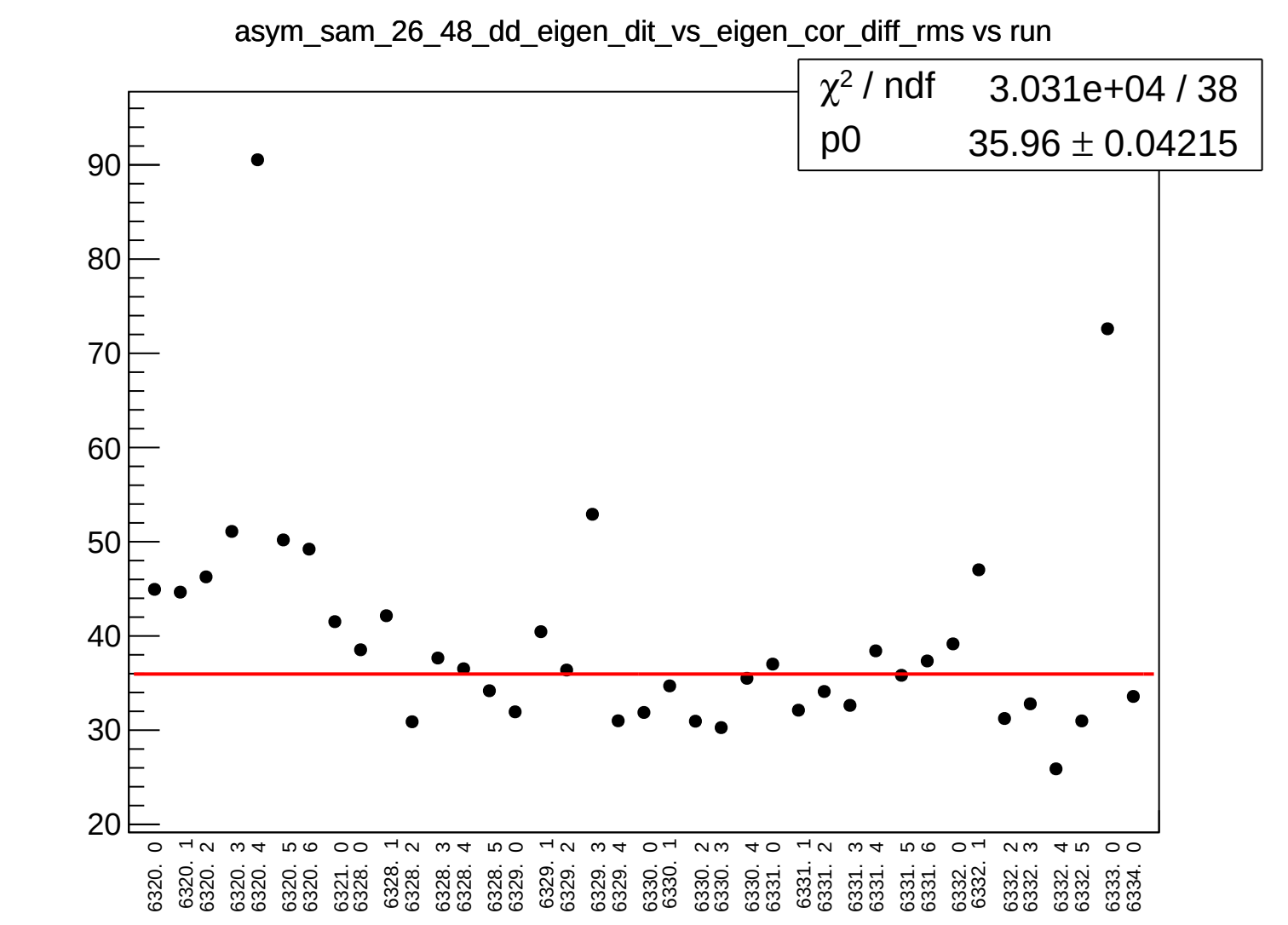

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.031e+04 / 38
p0 35.96 ± 0.04215
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

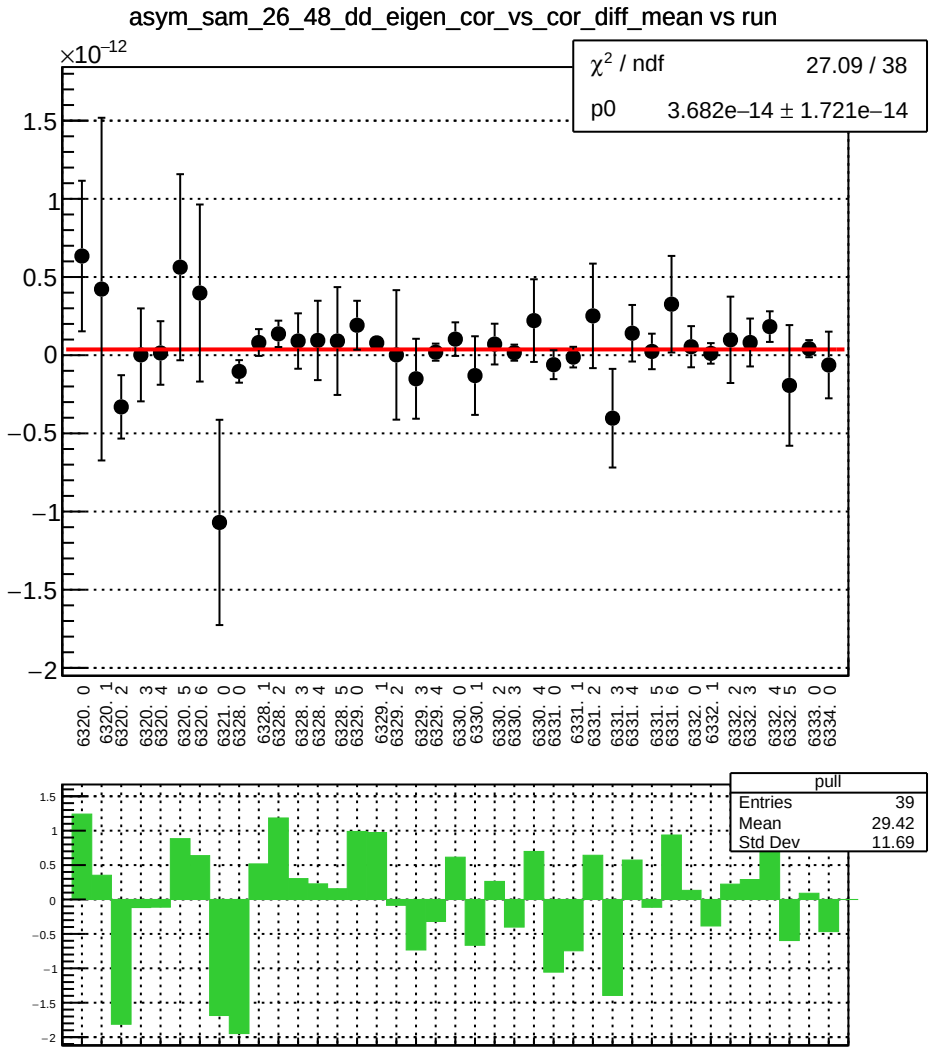
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

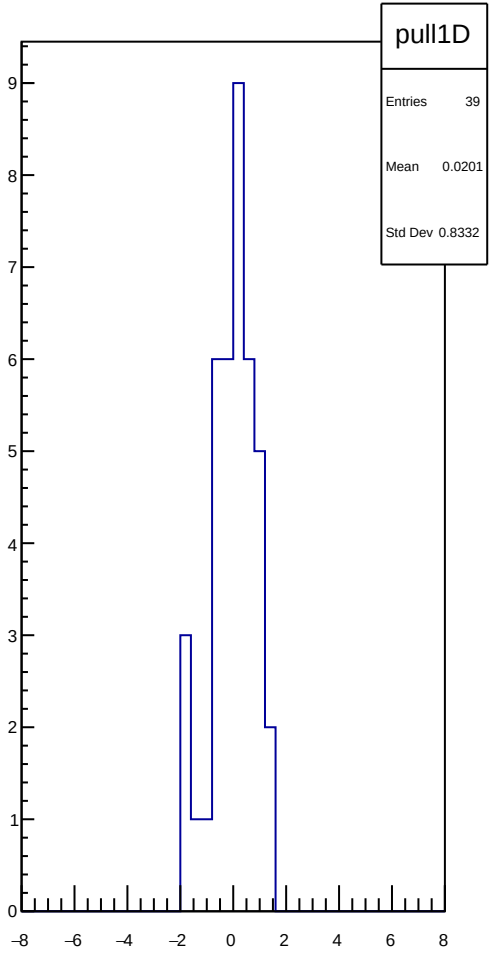


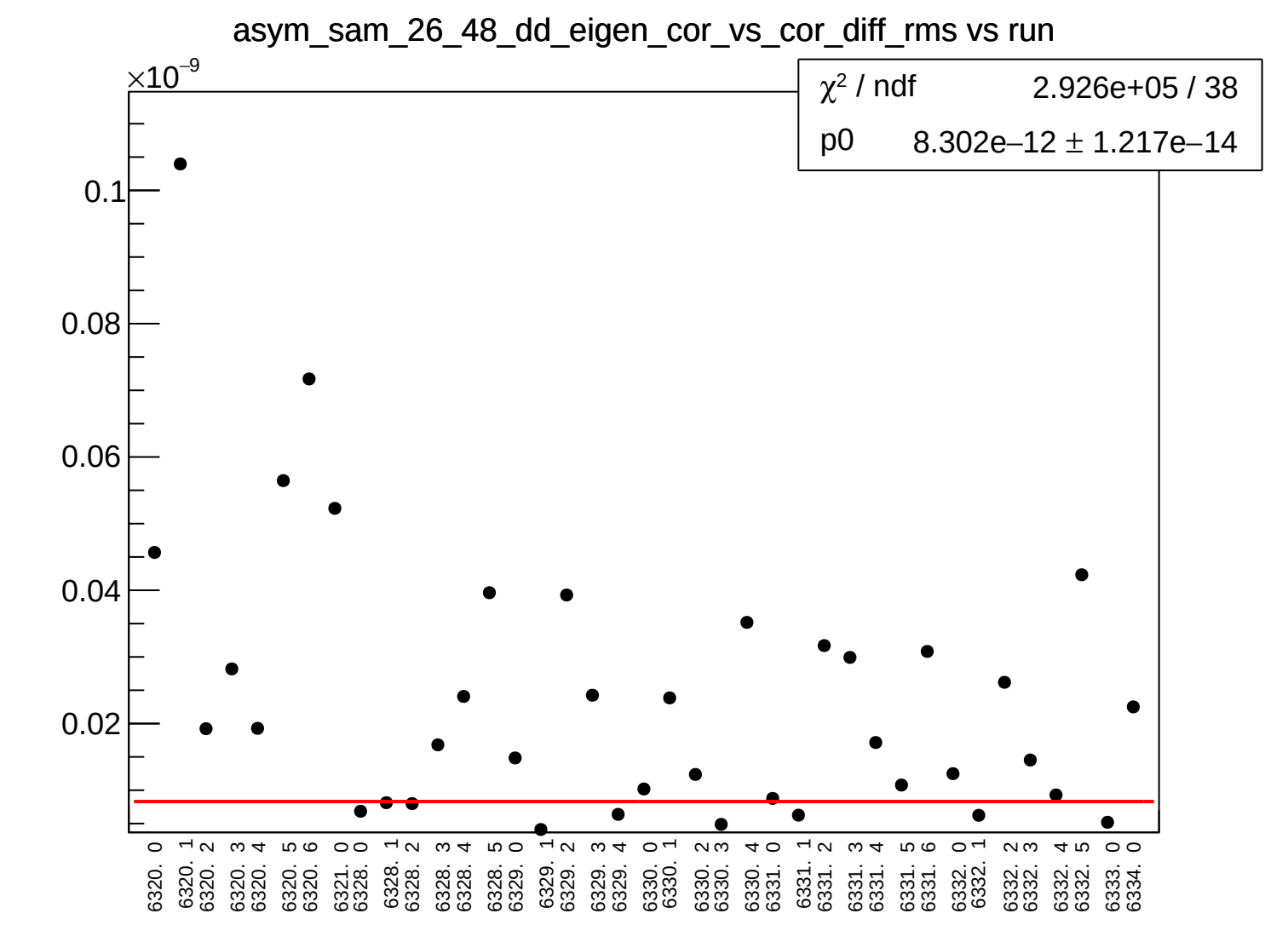


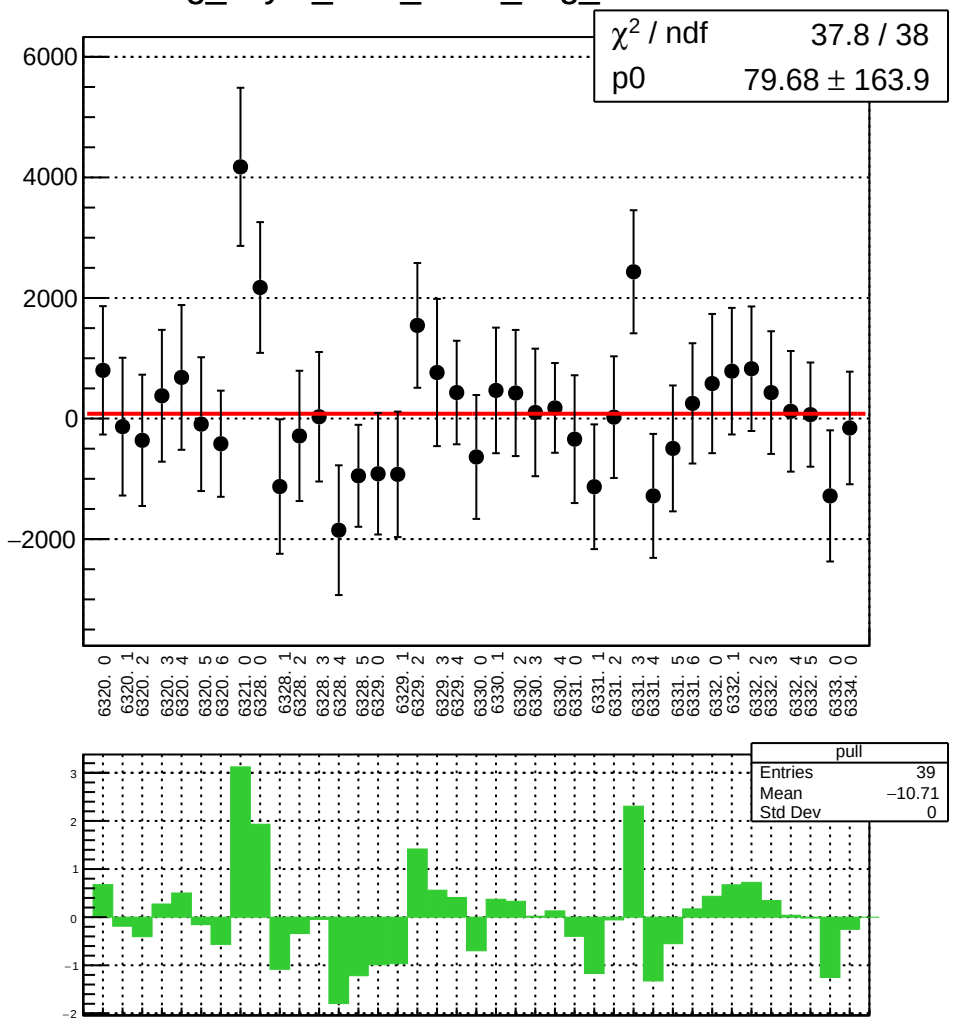


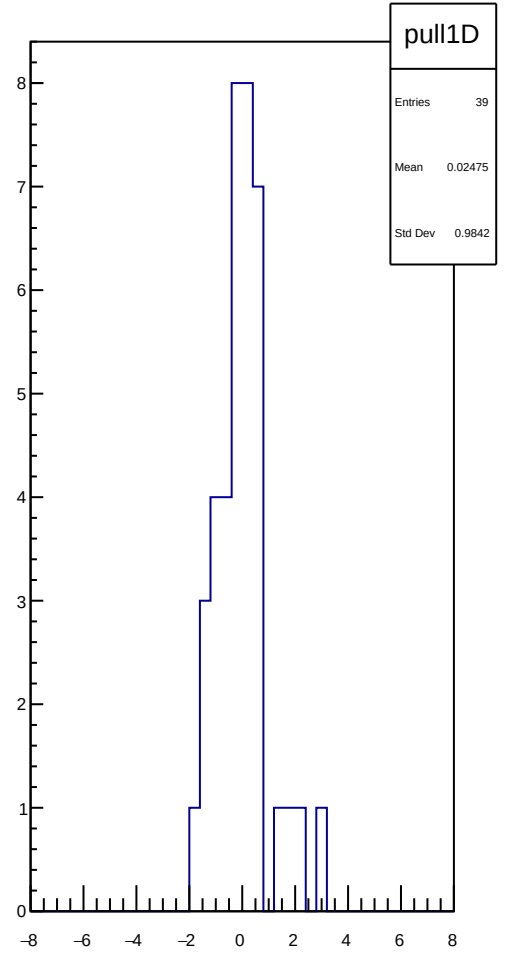

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.031e+04 / 38
p0 35.96 ± 0.04215
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

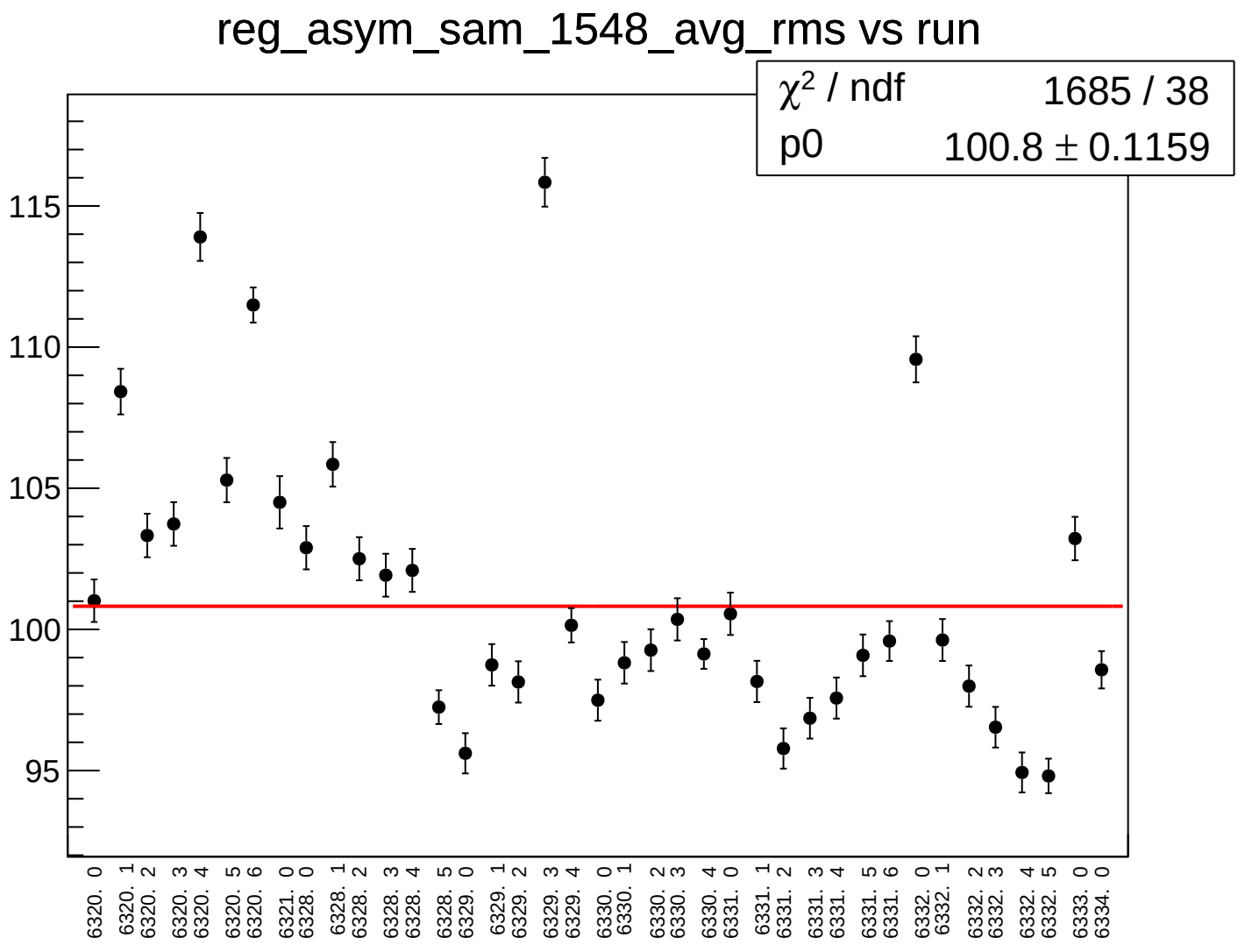

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.09 / 38
p0 3.682e−14 ± 1.721e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 29.42
Std Dev 11.69

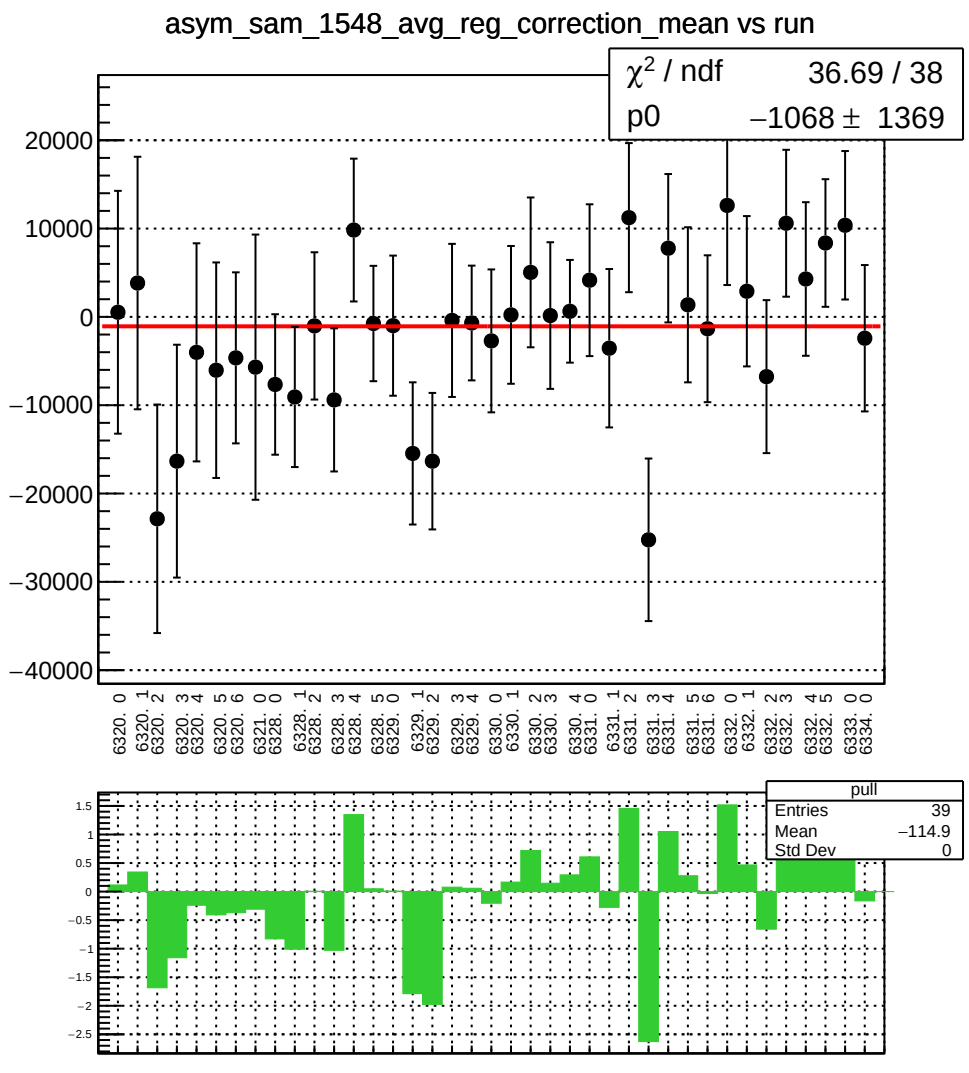

pull1D
Entries 39
Mean 0.0201
Std Dev 0.8332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

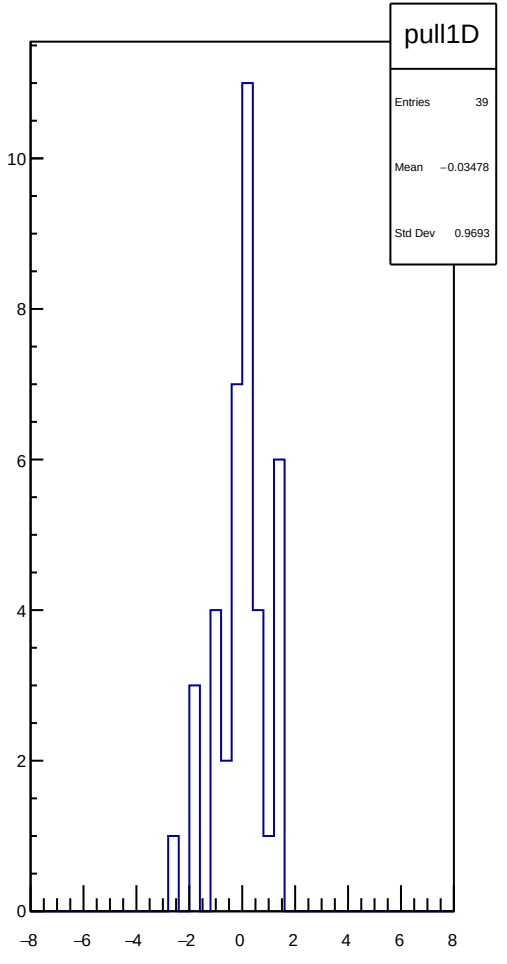

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.926e+05 / 38
p0 8.302e−12 ± 1.217e−14
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

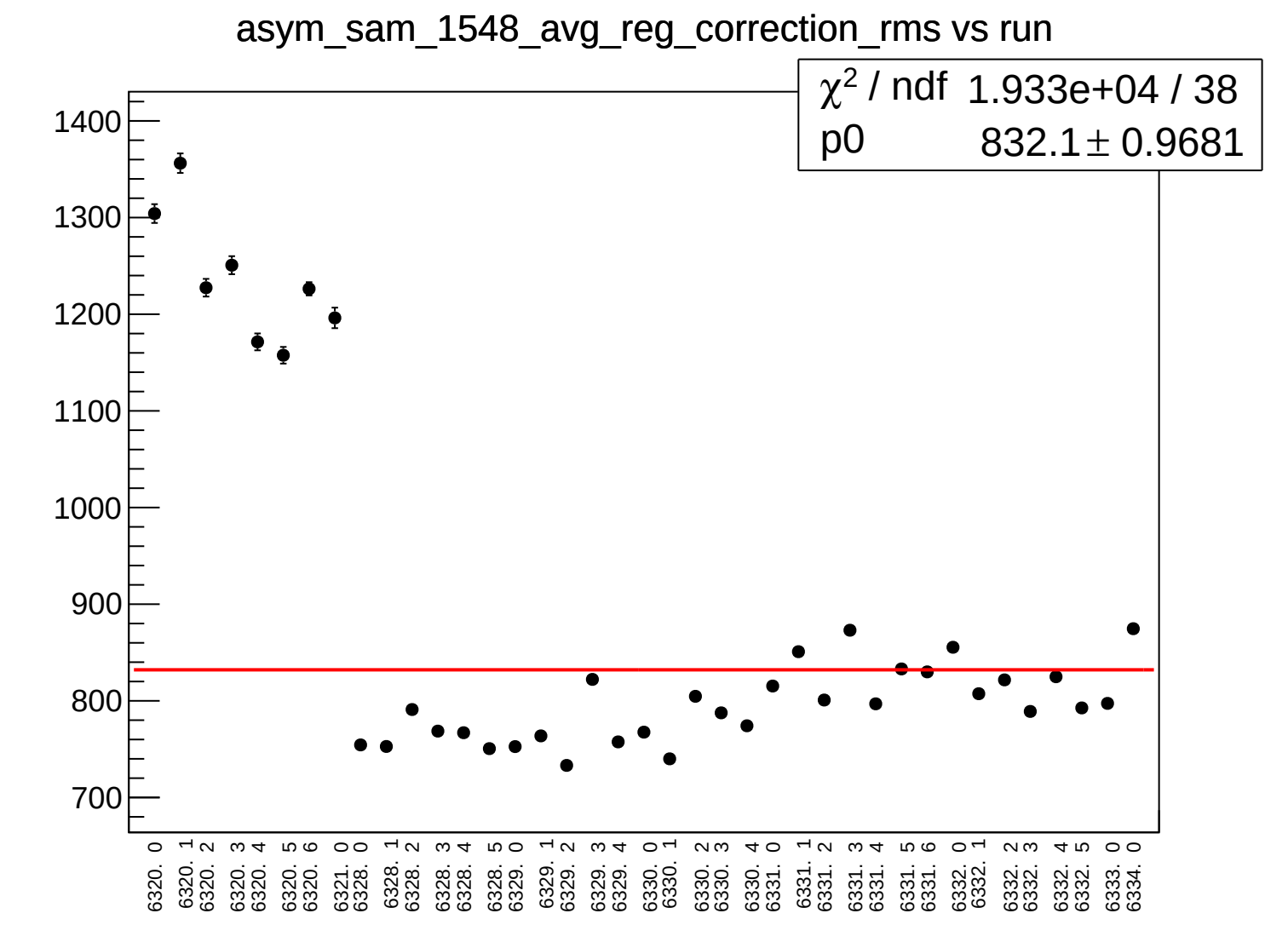

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 37.8 / 38
p0 79.68 ± 163.9
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.71
Std Dev 0
3
2
1
0
−1
−2

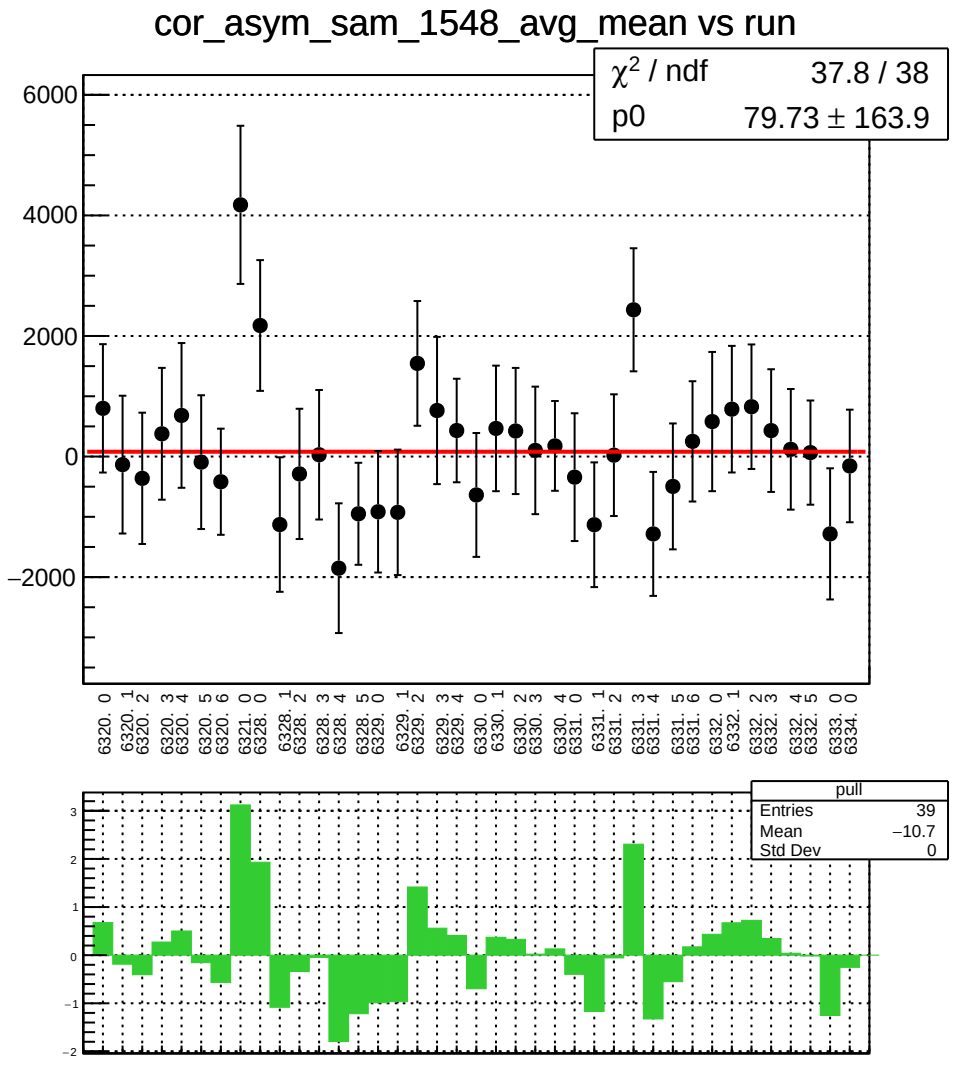

pull1D
Entries 39
Mean 0.02475
Std Dev 0.9842
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

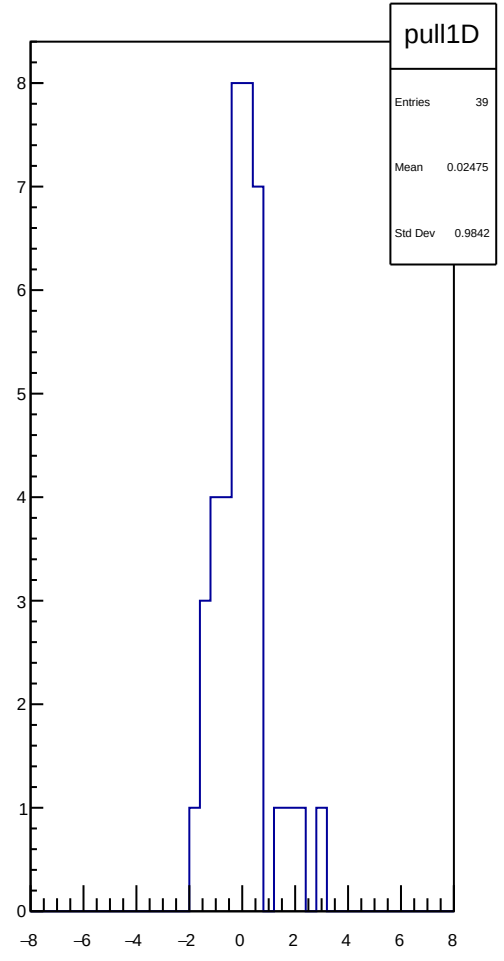

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1685 / 38
p0 100.8 ± 0.1159
115
110
105
100
95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

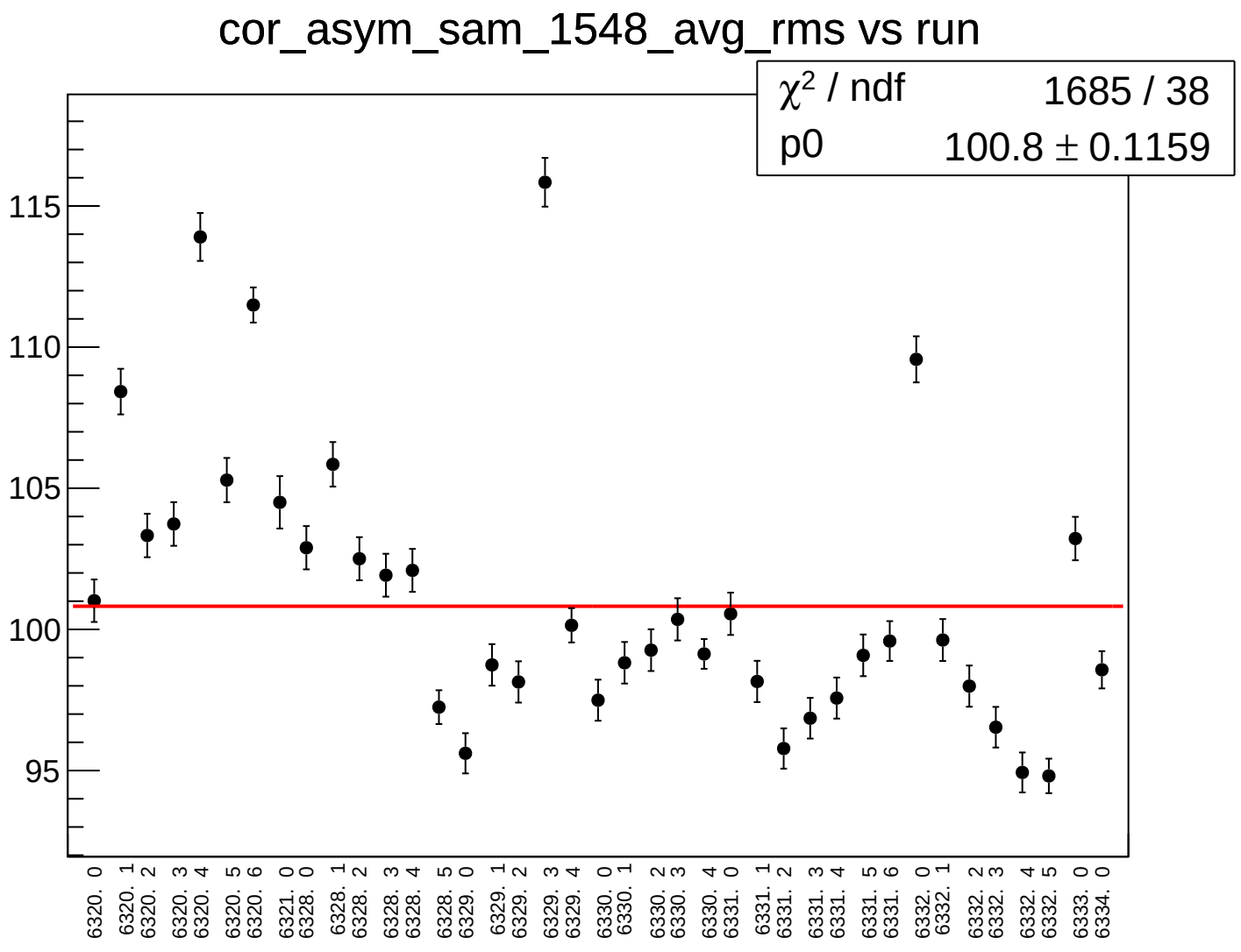

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 36.69 / 38
p0 −1068 ± 1369
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −114.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

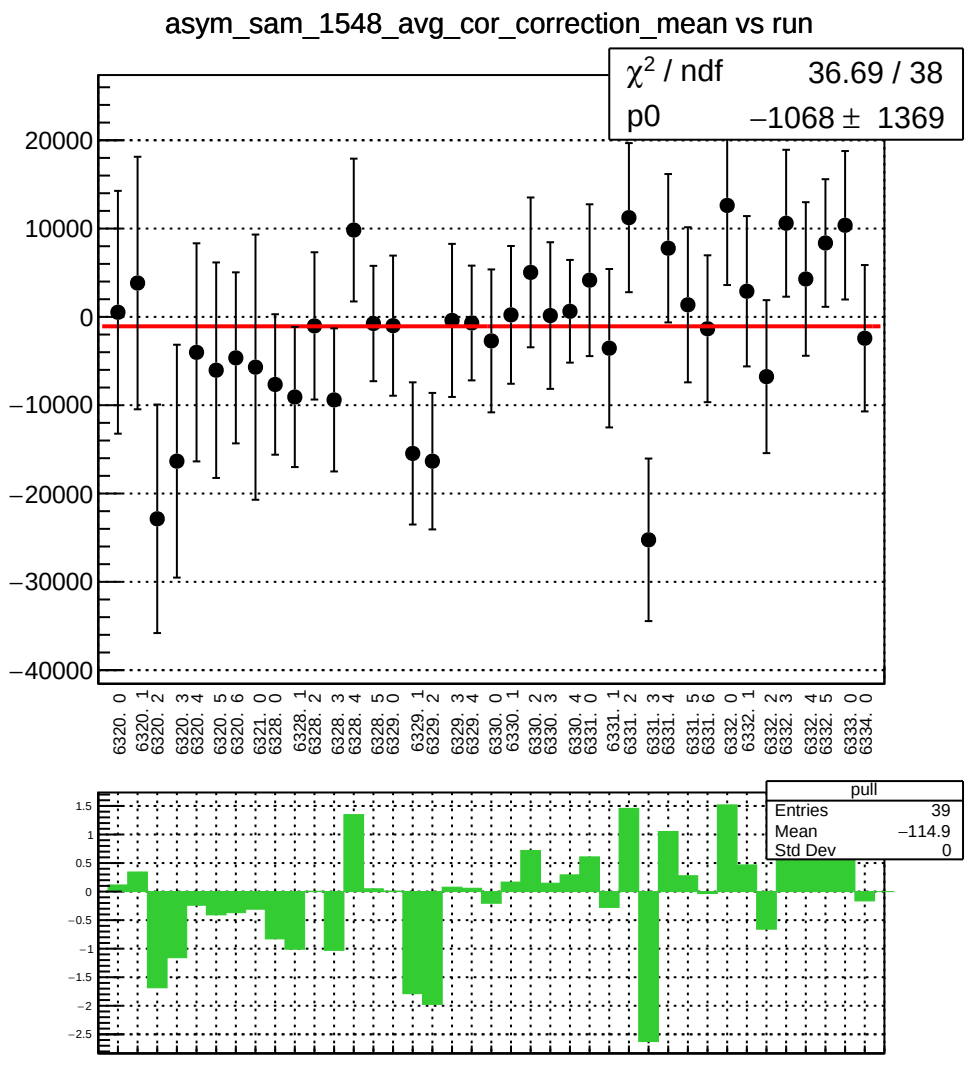

pull1D
Entries 39
Mean −0.03478
Std Dev 0.9693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

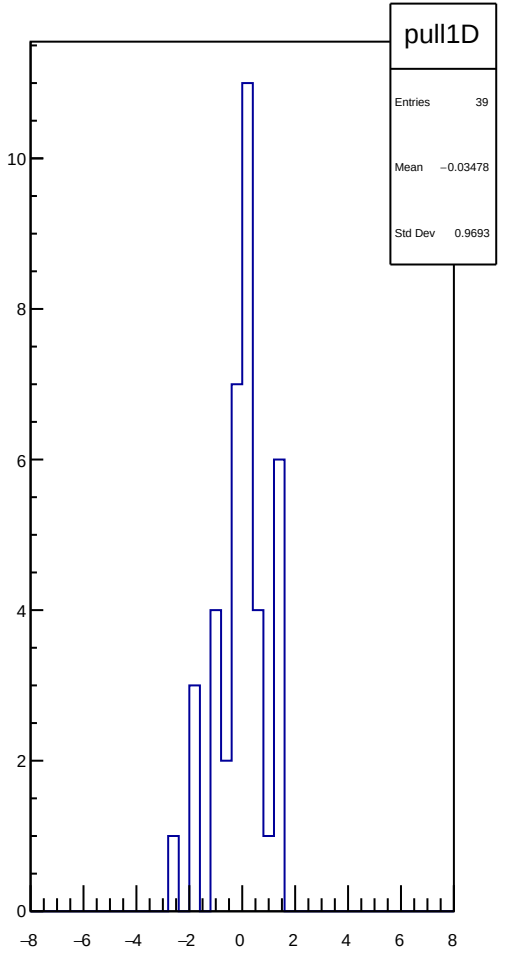

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.933e+04 / 38
p0 832.1 ± 0.9681
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

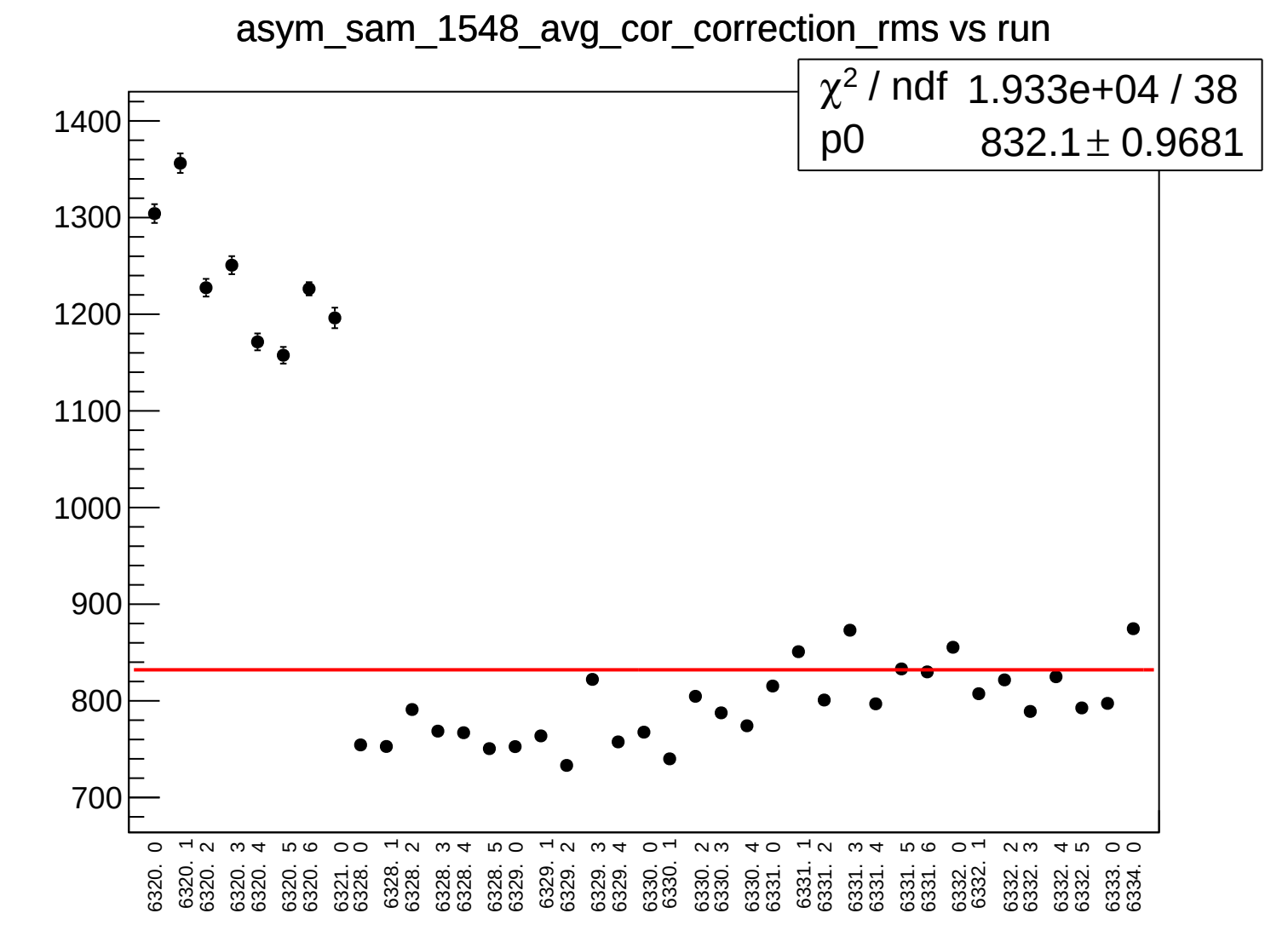

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.8 / 38
p0 79.73 ± 163.9
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.02475
Std Dev 0.9842
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1685 / 38
p0 100.8 ± 0.1159
115
110
105
100
95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 36.69 / 38
p0 −1068 ± 1369
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −114.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.03478
Std Dev 0.9693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.933e+04 / 38
p0 832.1 ± 0.9681
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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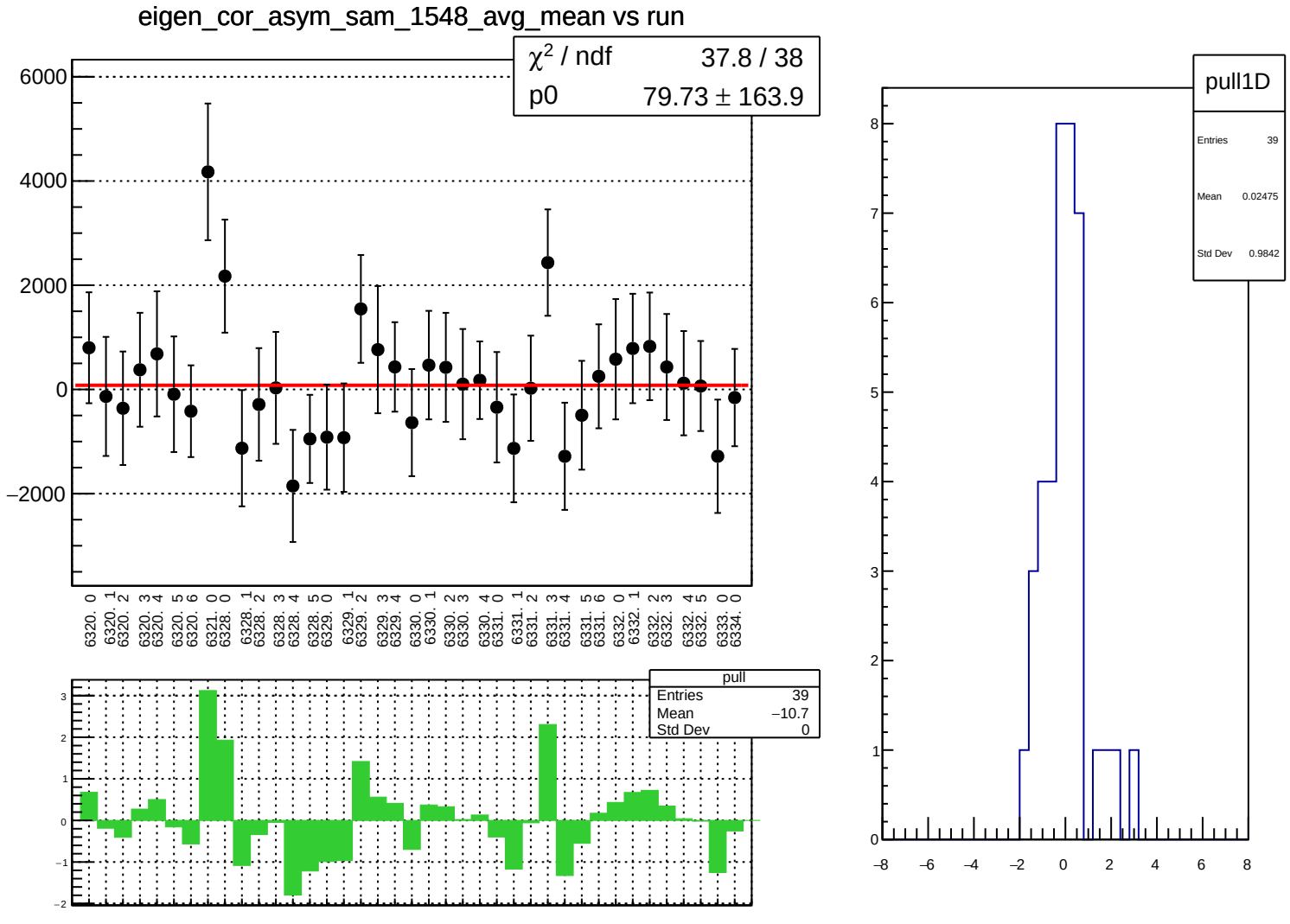
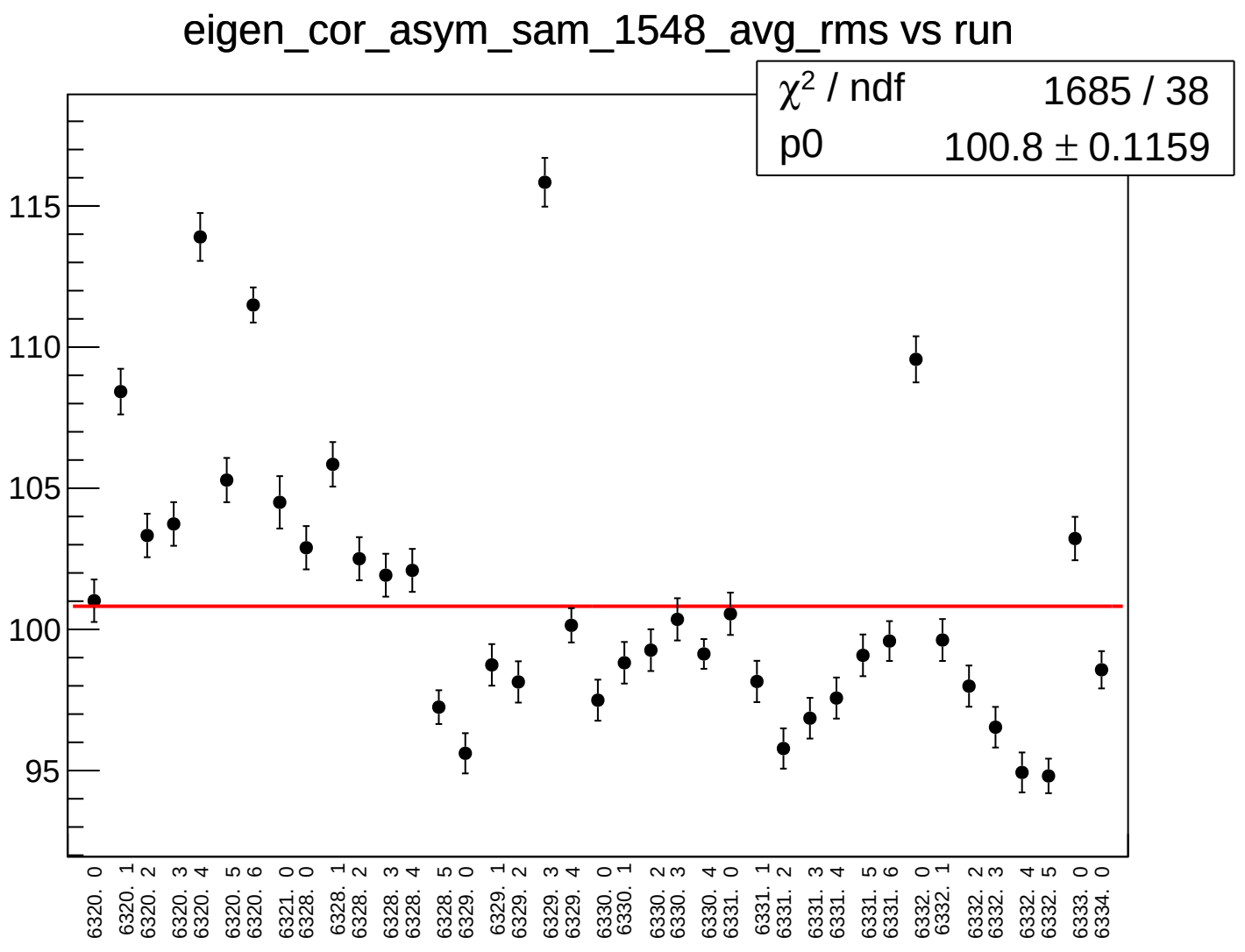
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.8 / 38
p0 79.73 ± 163.9
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02475
Std Dev 0.9842
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1685 / 38
p0 100.8 ± 0.1159
115
110
105
100
95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
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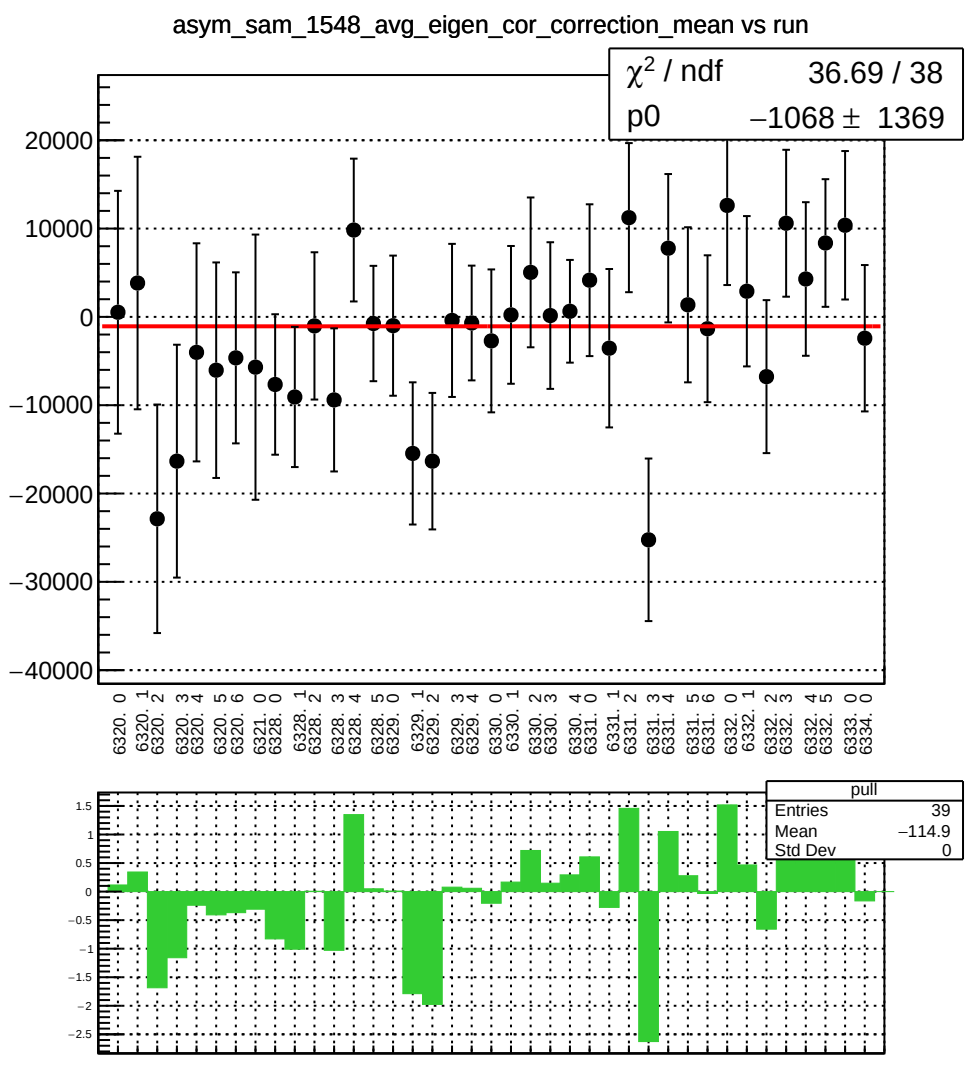
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 36.69 / 38
p0 −1068 ± 1369
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
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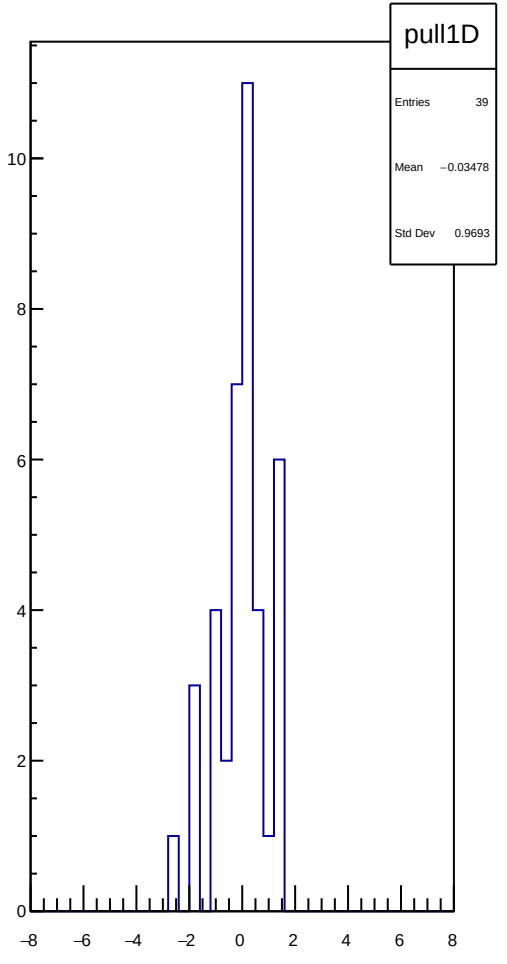
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −114.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.03478
Std Dev 0.9693
10
8
6
4
2
0
−8
−6
−4
−2
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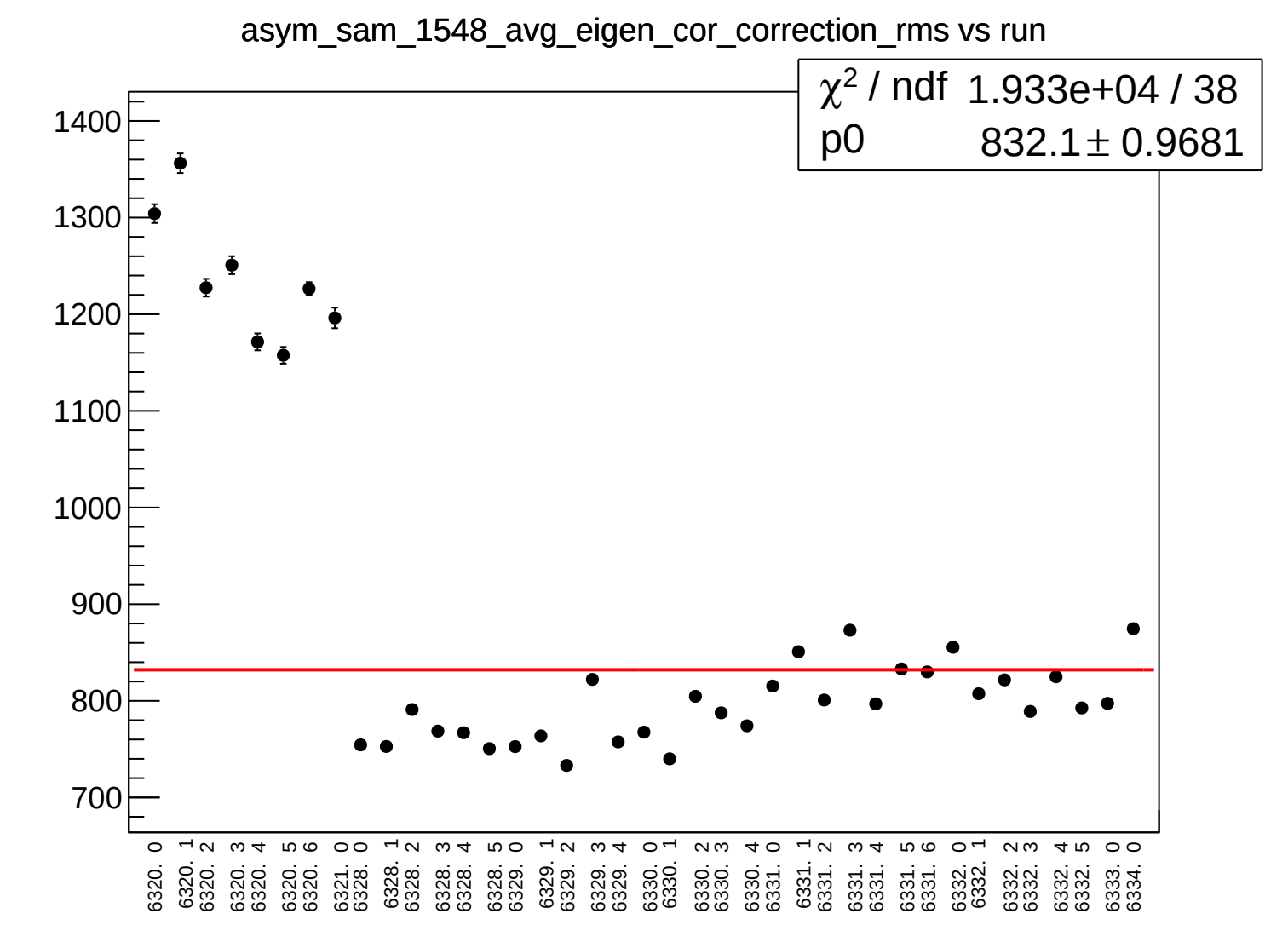
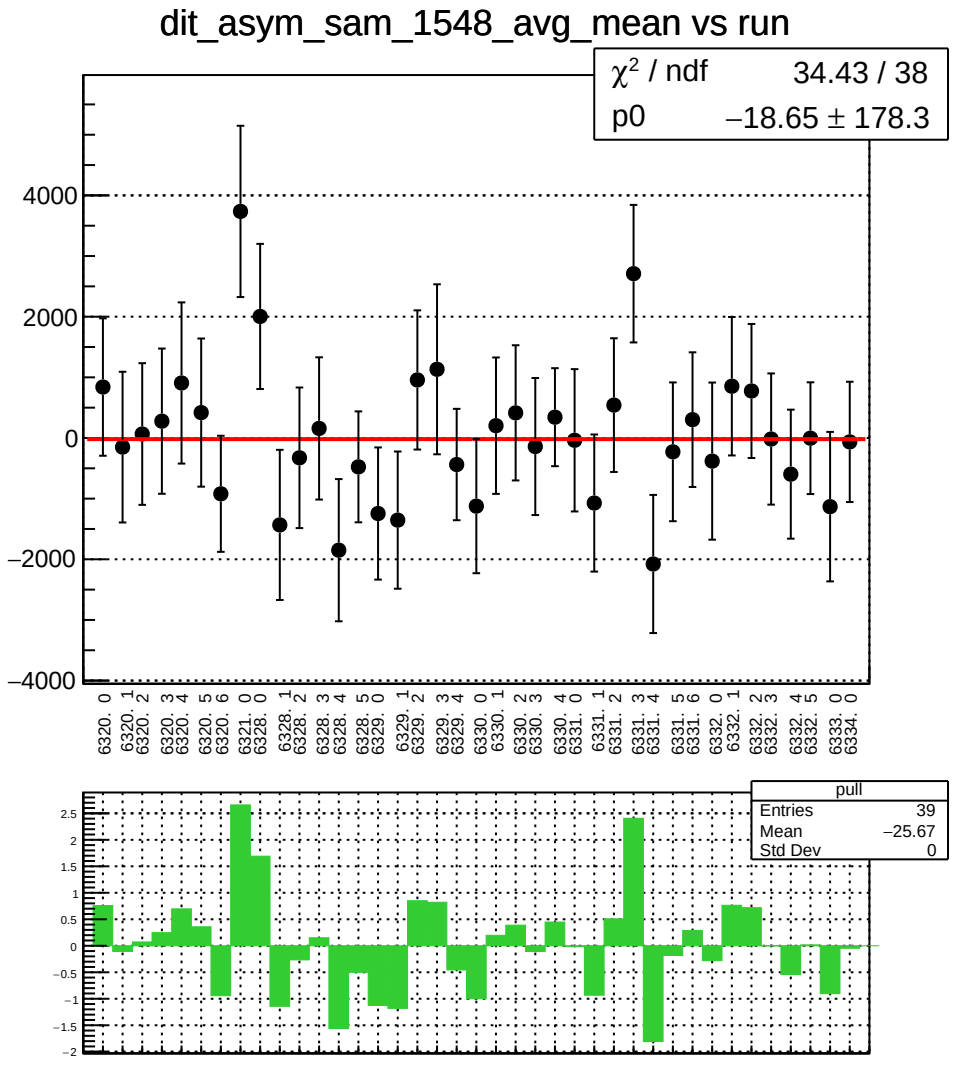
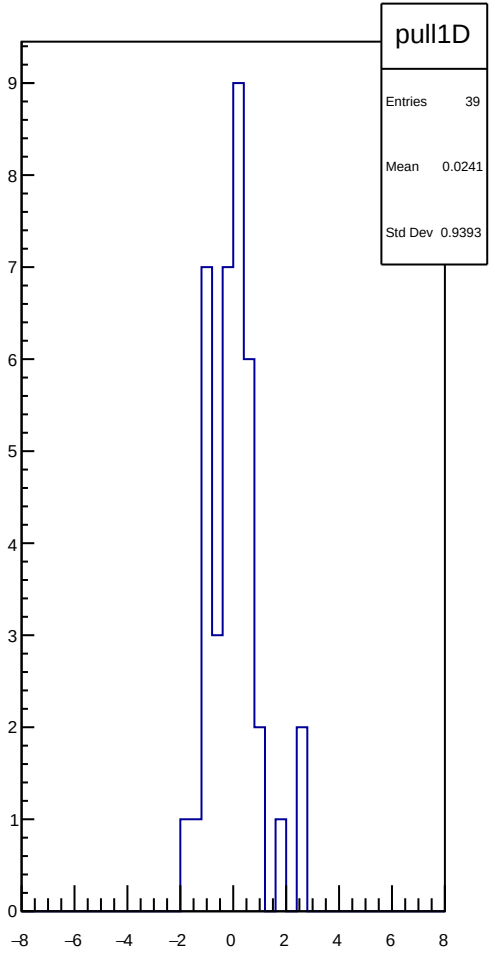
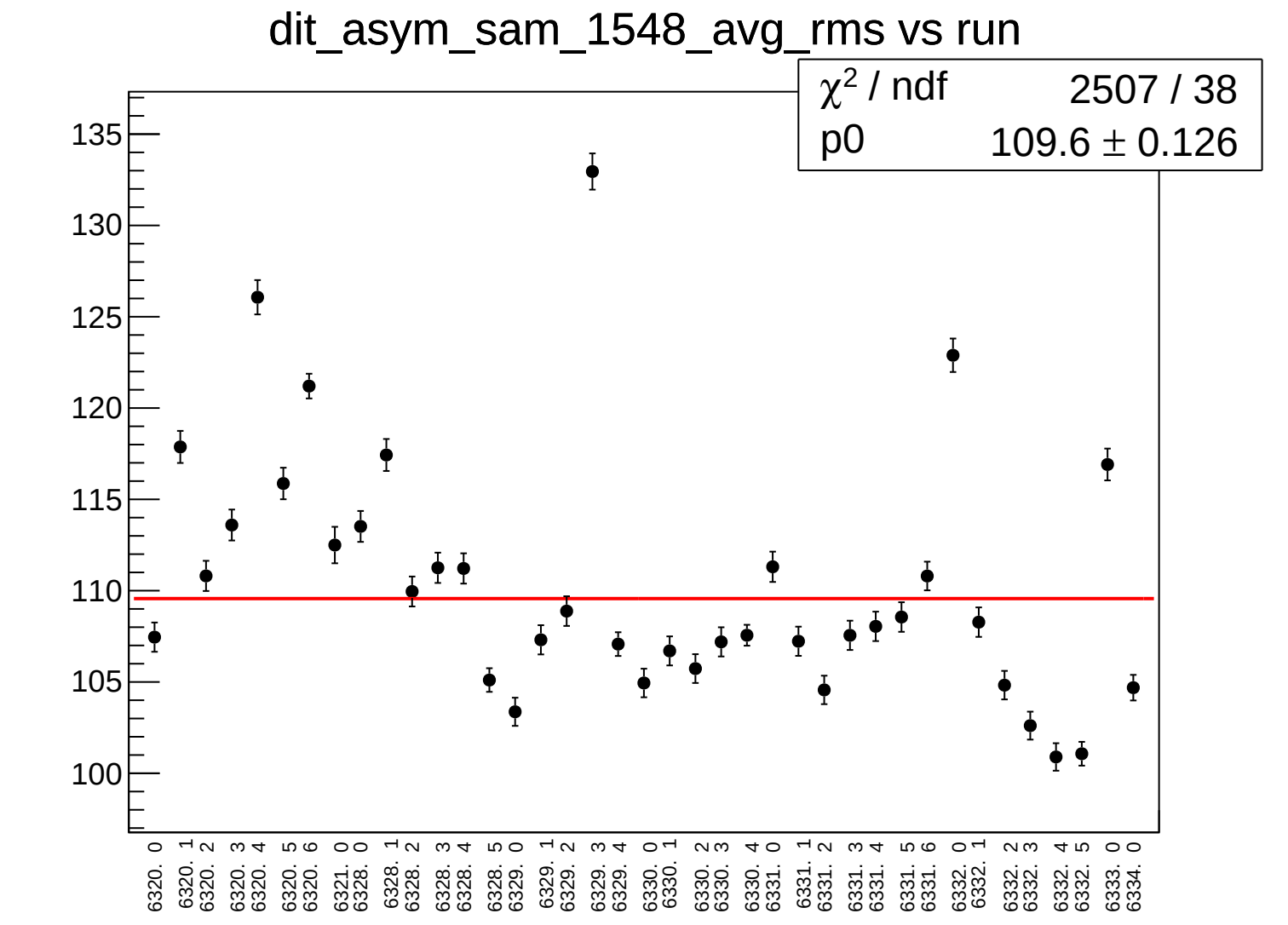
2
4
6
8


asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.933e+04 / 38
p0 832.1 ± 0.9681
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_1548_avg_mean vs run
χ² / ndf 34.43 / 38
p0 −18.65 ± 178.3
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean 0.0241
Std Dev 0.9393
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2507 / 38
p0 109.6 ± 0.126
135
130
125
120
115
110
105
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
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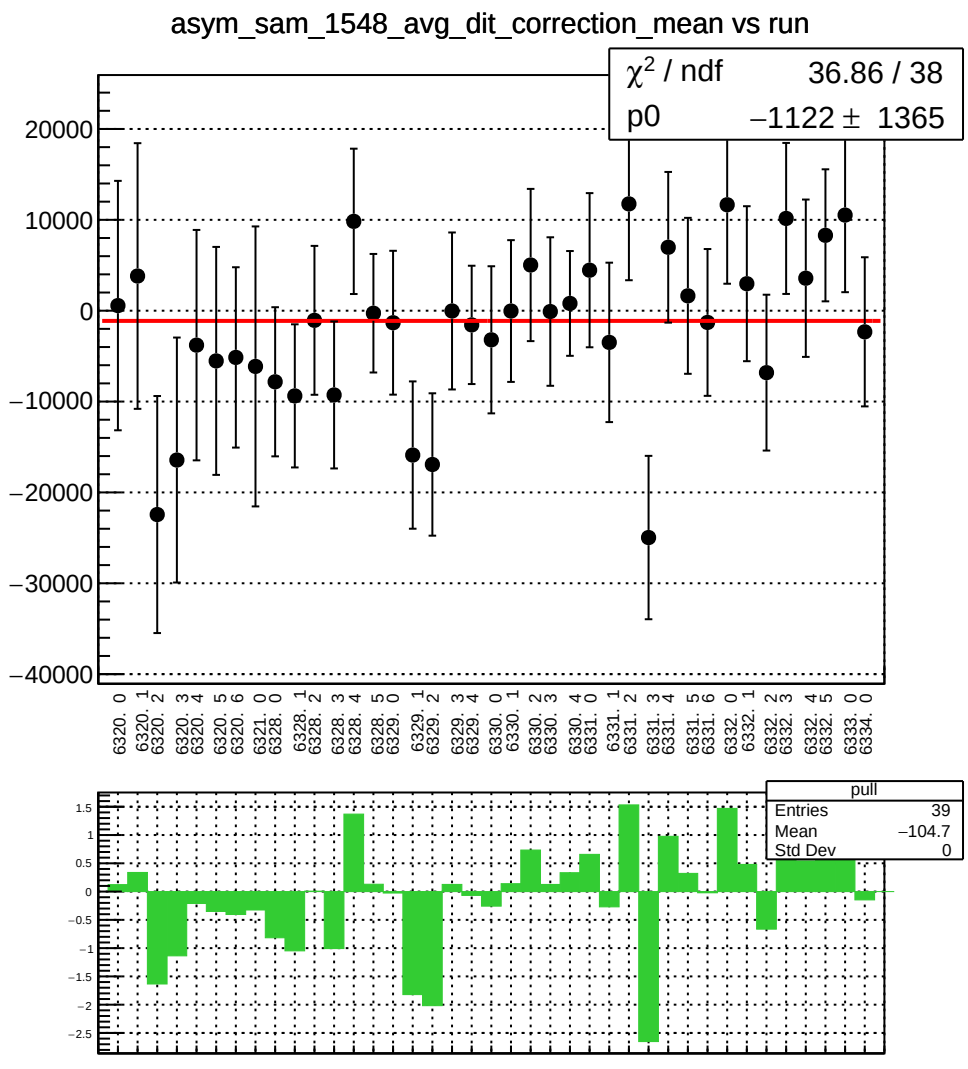
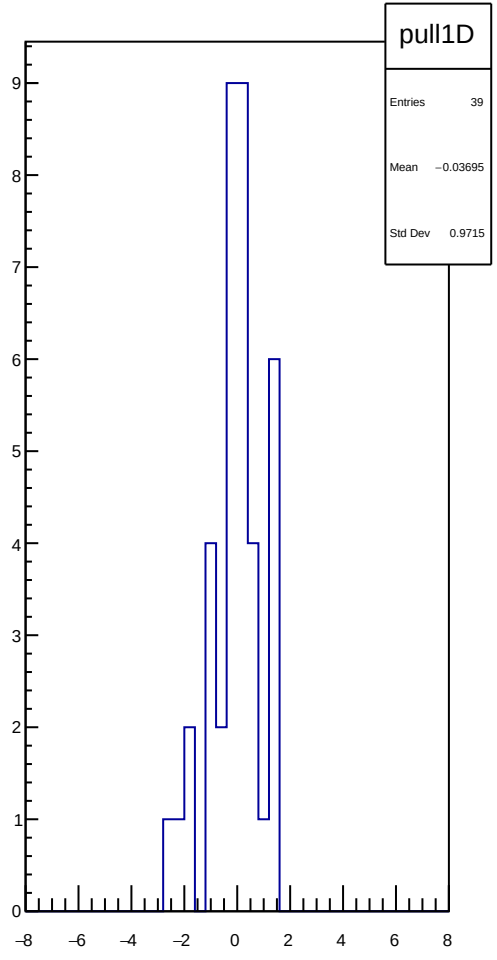
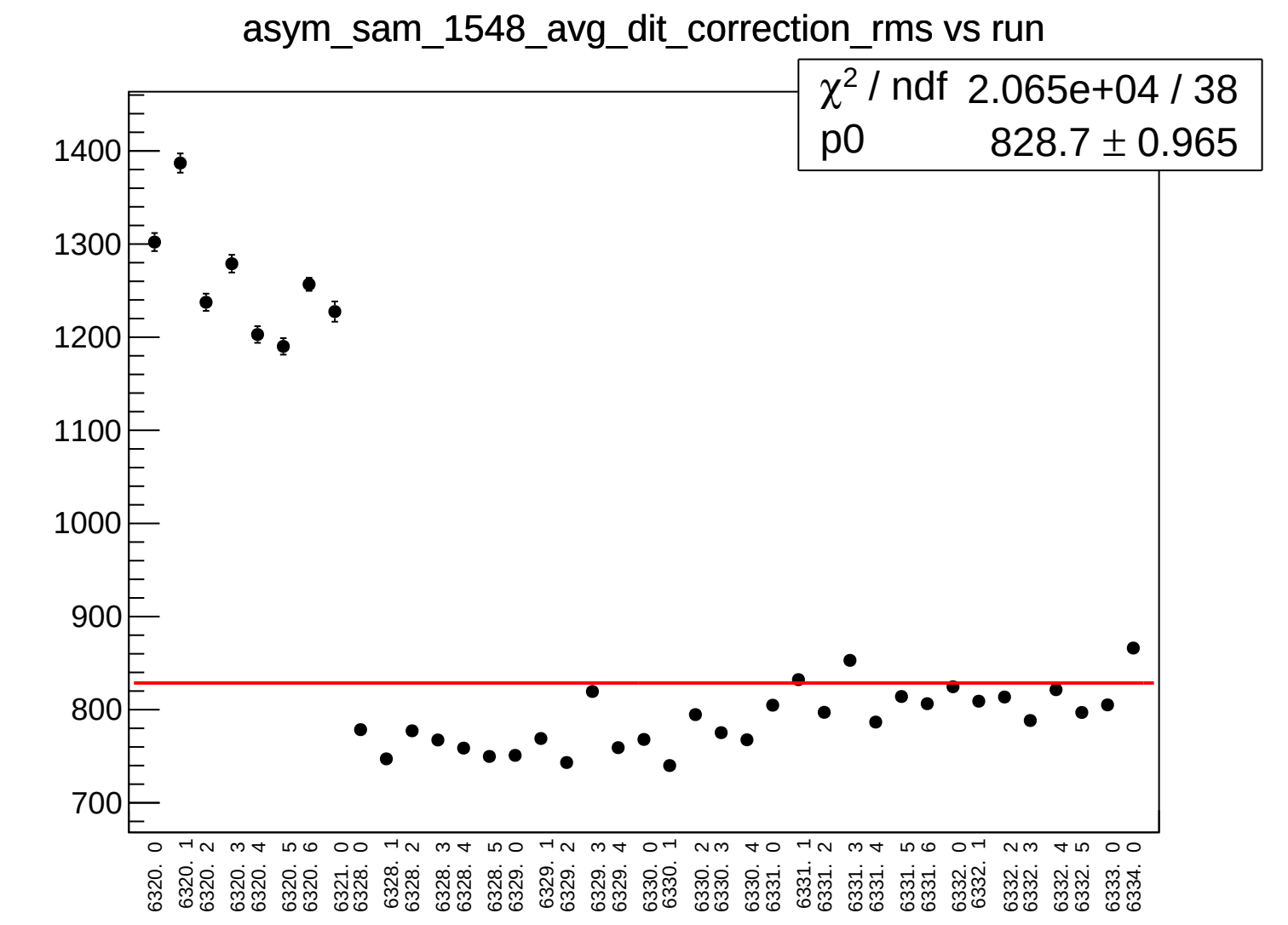
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 36.86 / 38
p0 −1122 ± 1365
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.03695
Std Dev 0.9715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2.065e+04 / 38
p0 828.7 ± 0.965
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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6328. 5
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6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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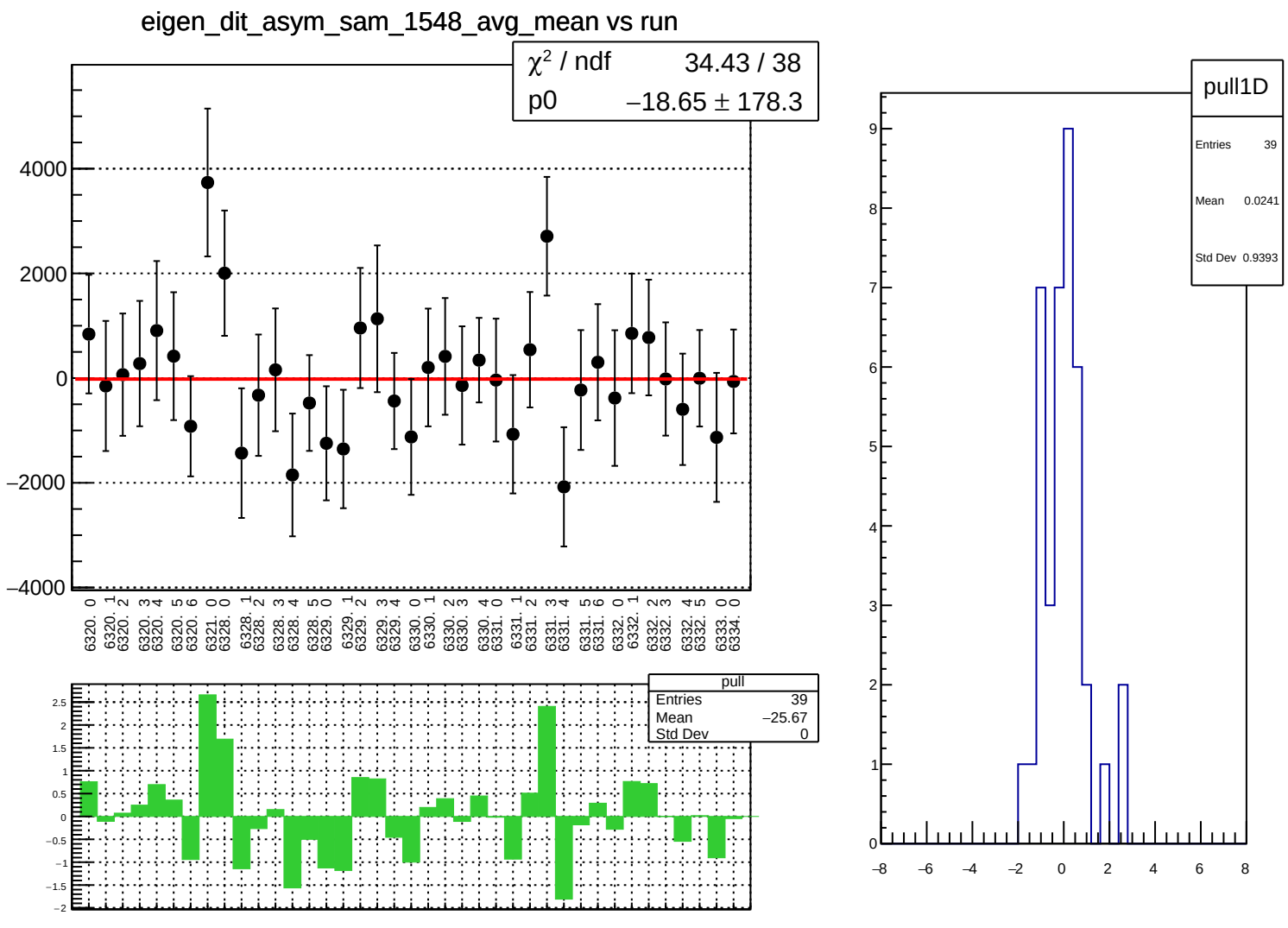
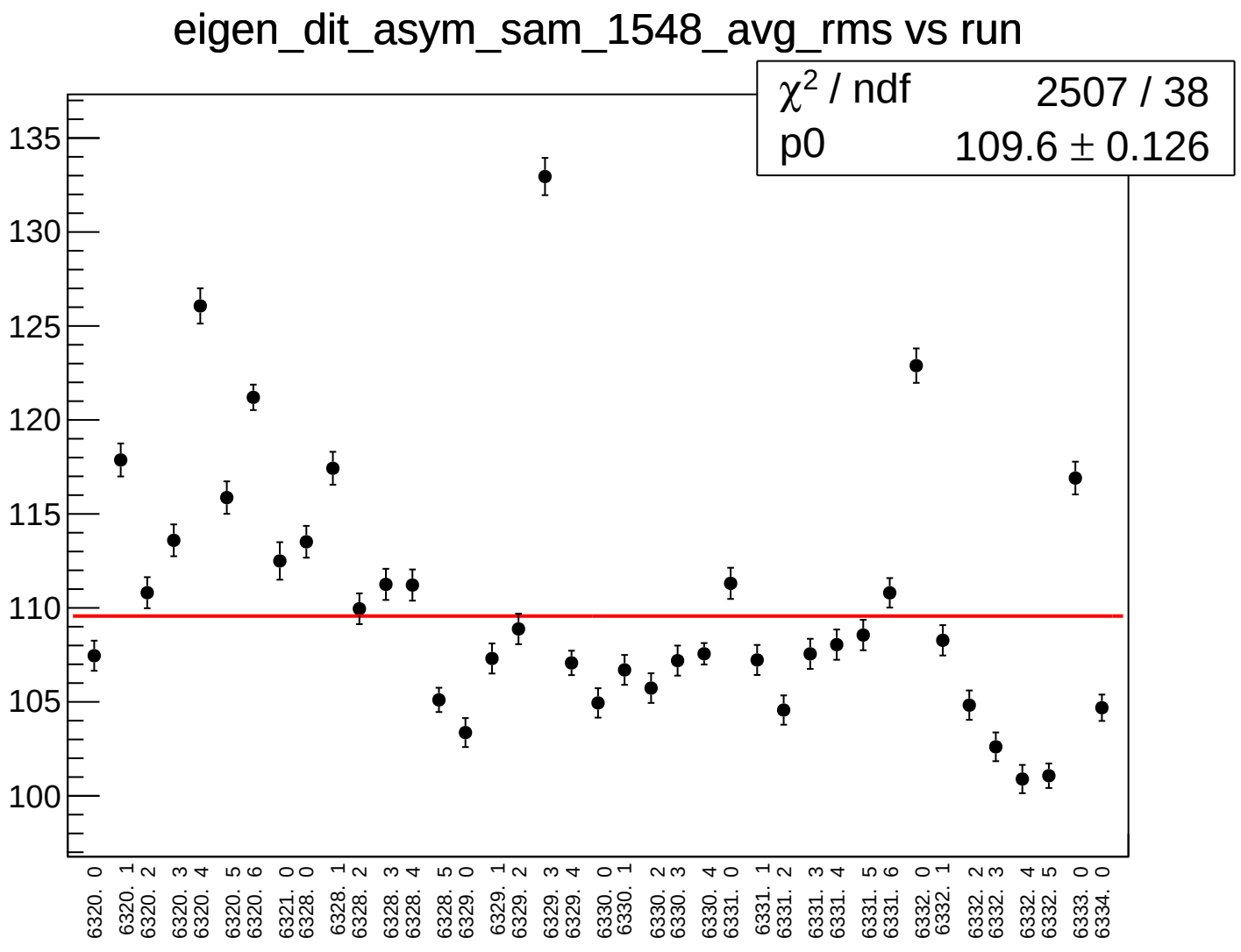
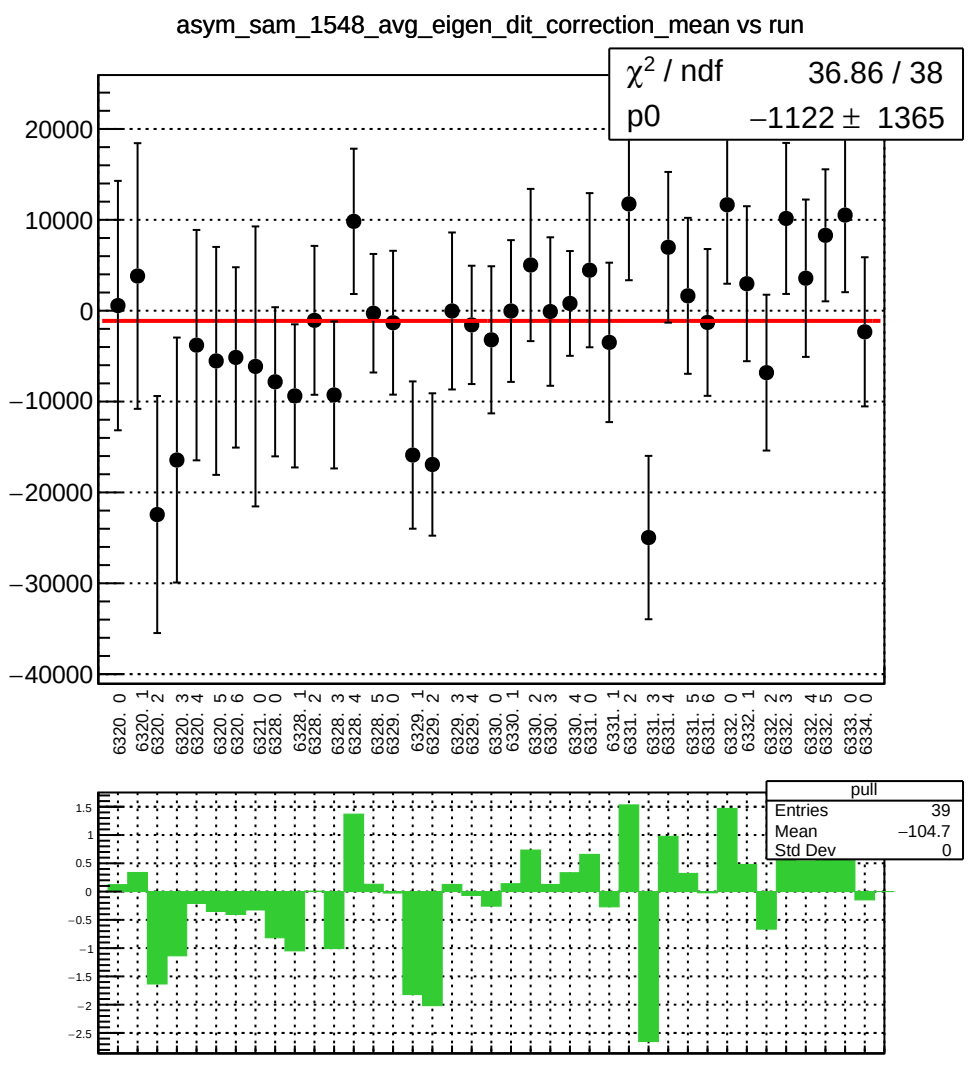
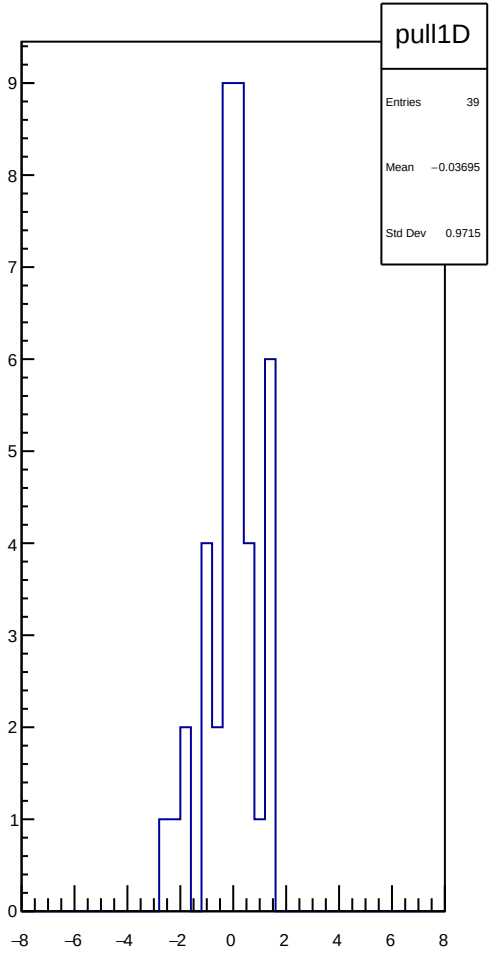
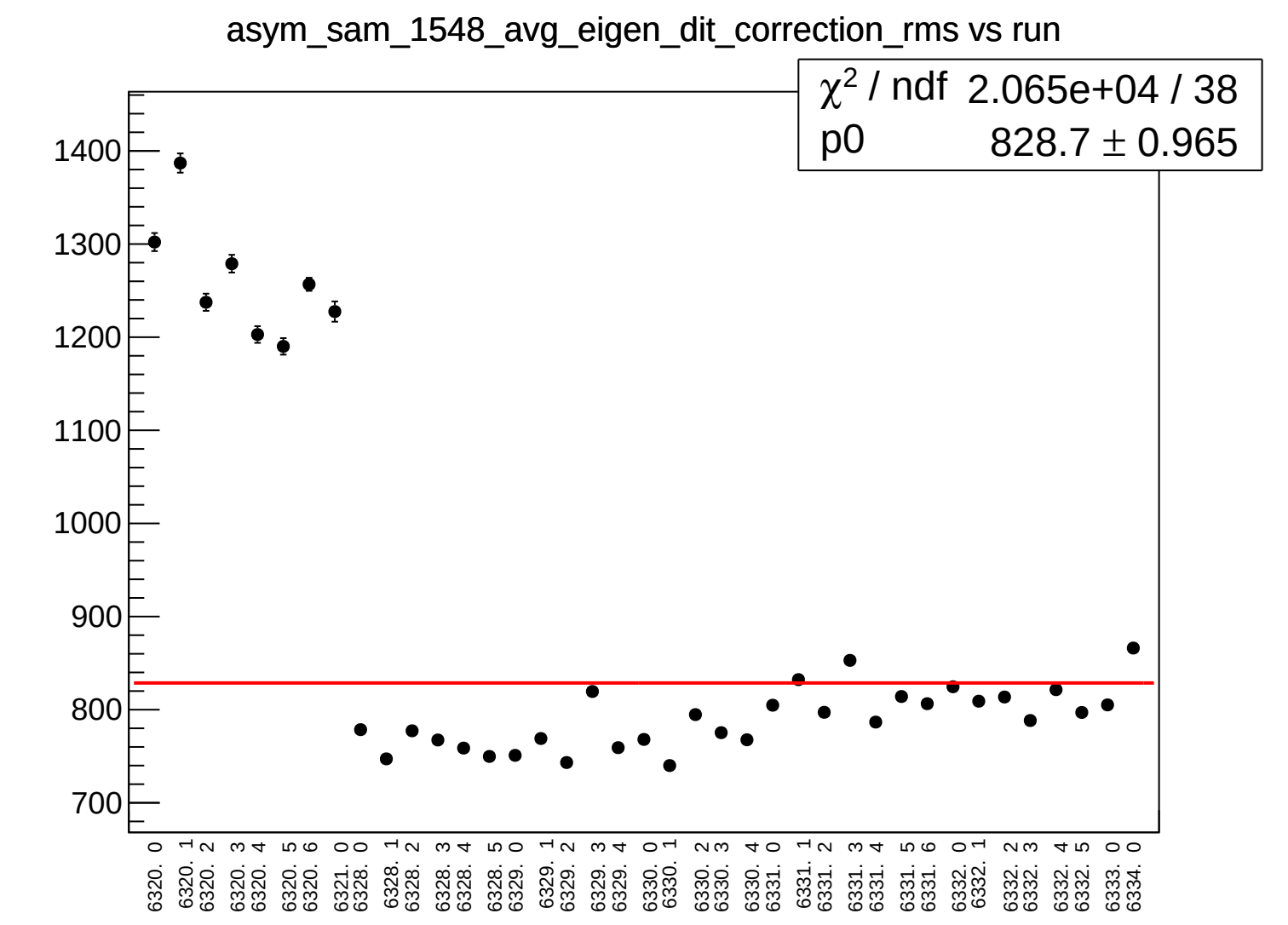
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

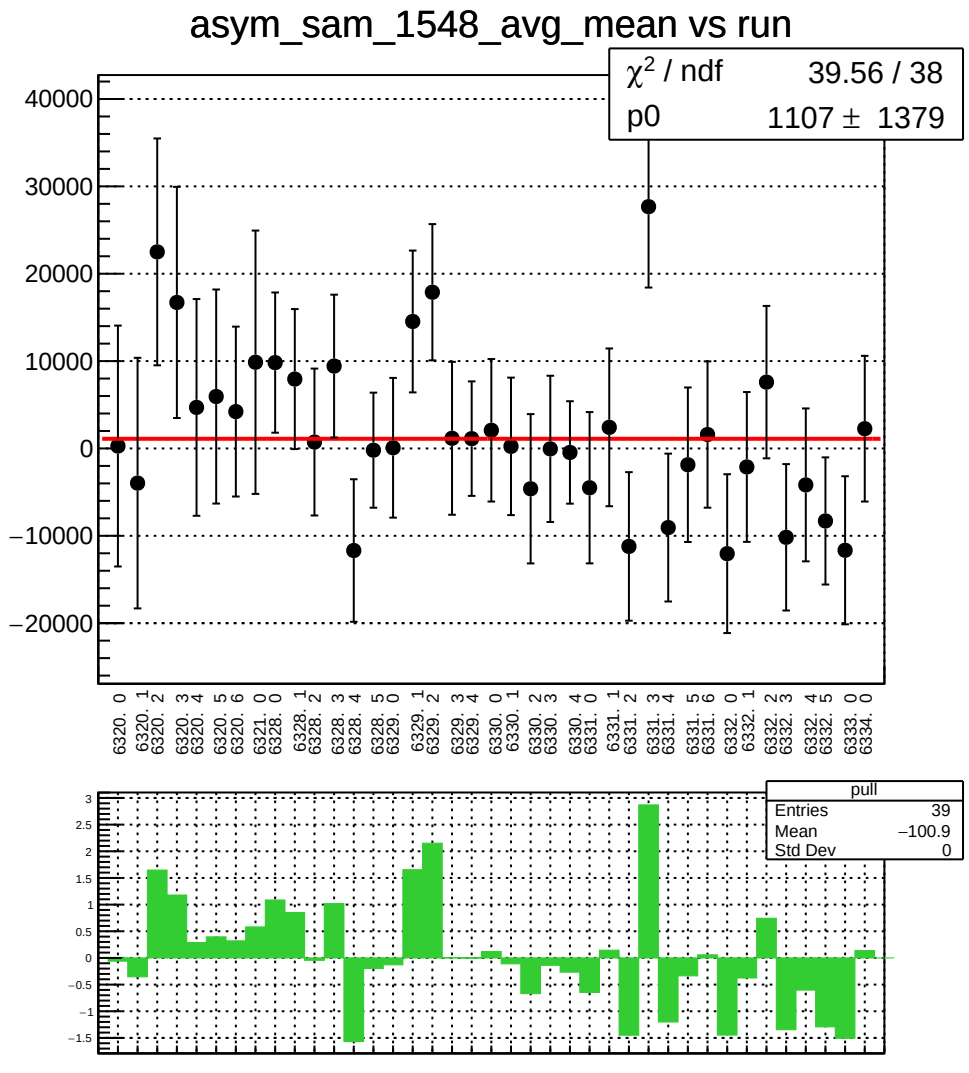

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 34.43 / 38
p0 −18.65 ± 178.3
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0241
Std Dev 0.9393
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

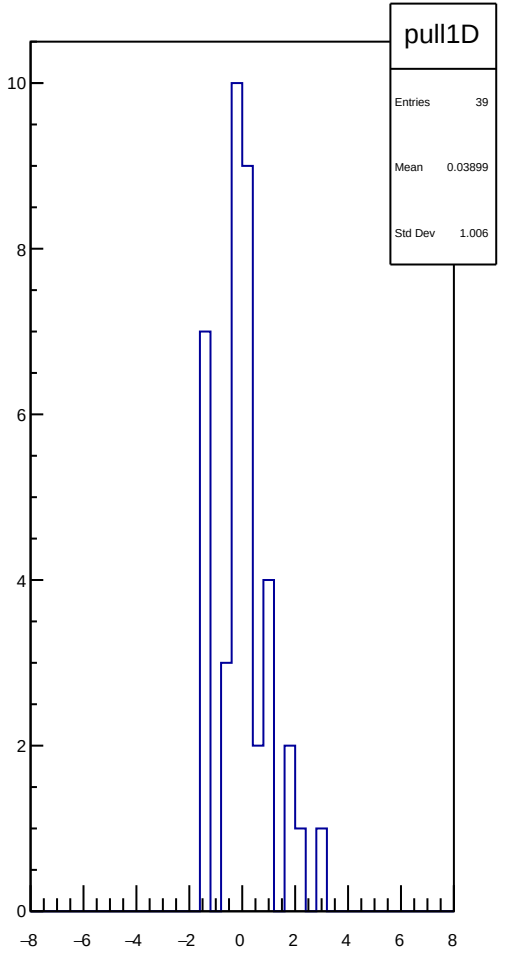

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2507 / 38
p0 109.6 ± 0.126
135
130
125
120
115
110
105
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

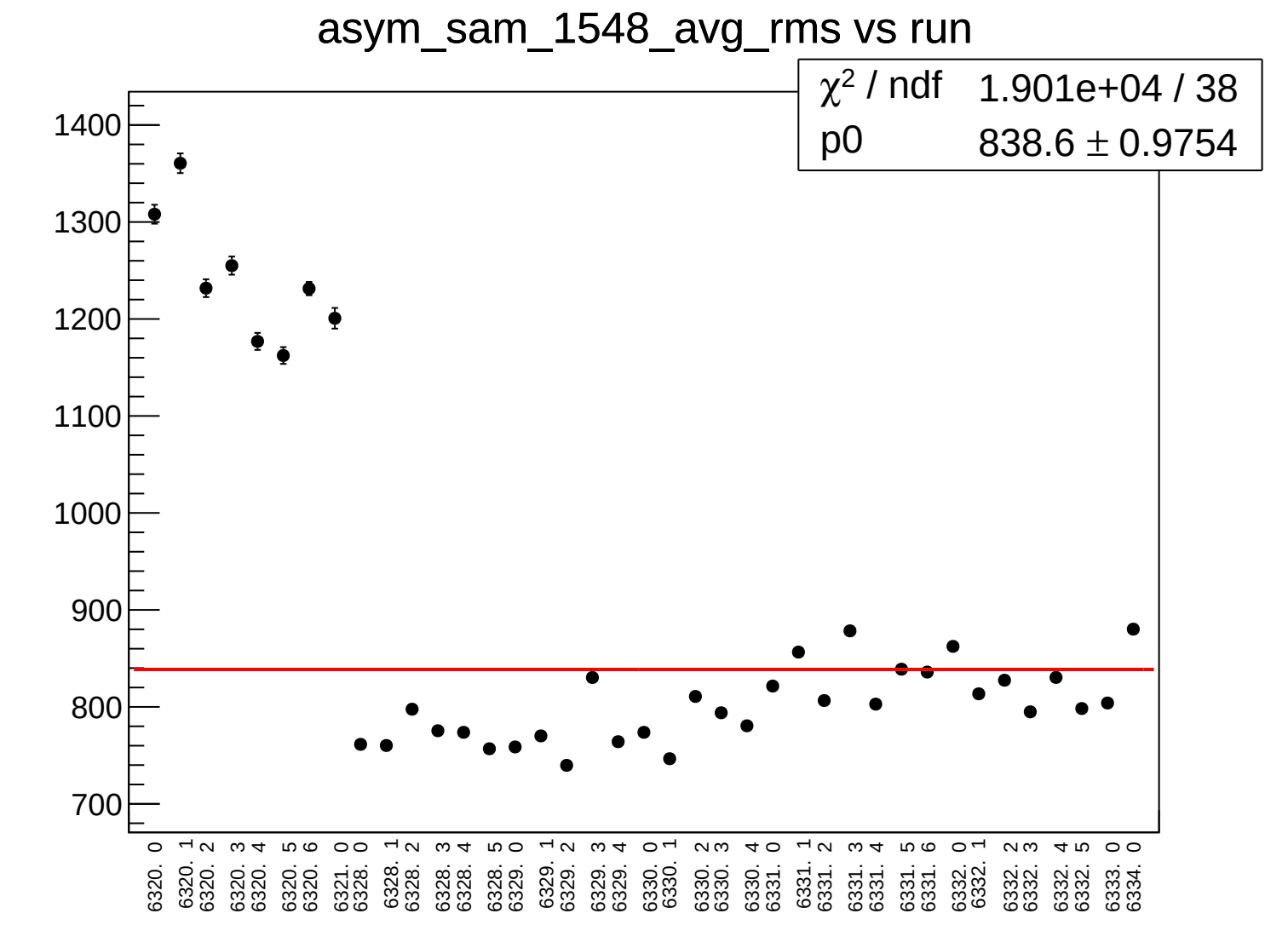

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.86 / 38
p0 −1122 ± 1365
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −104.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

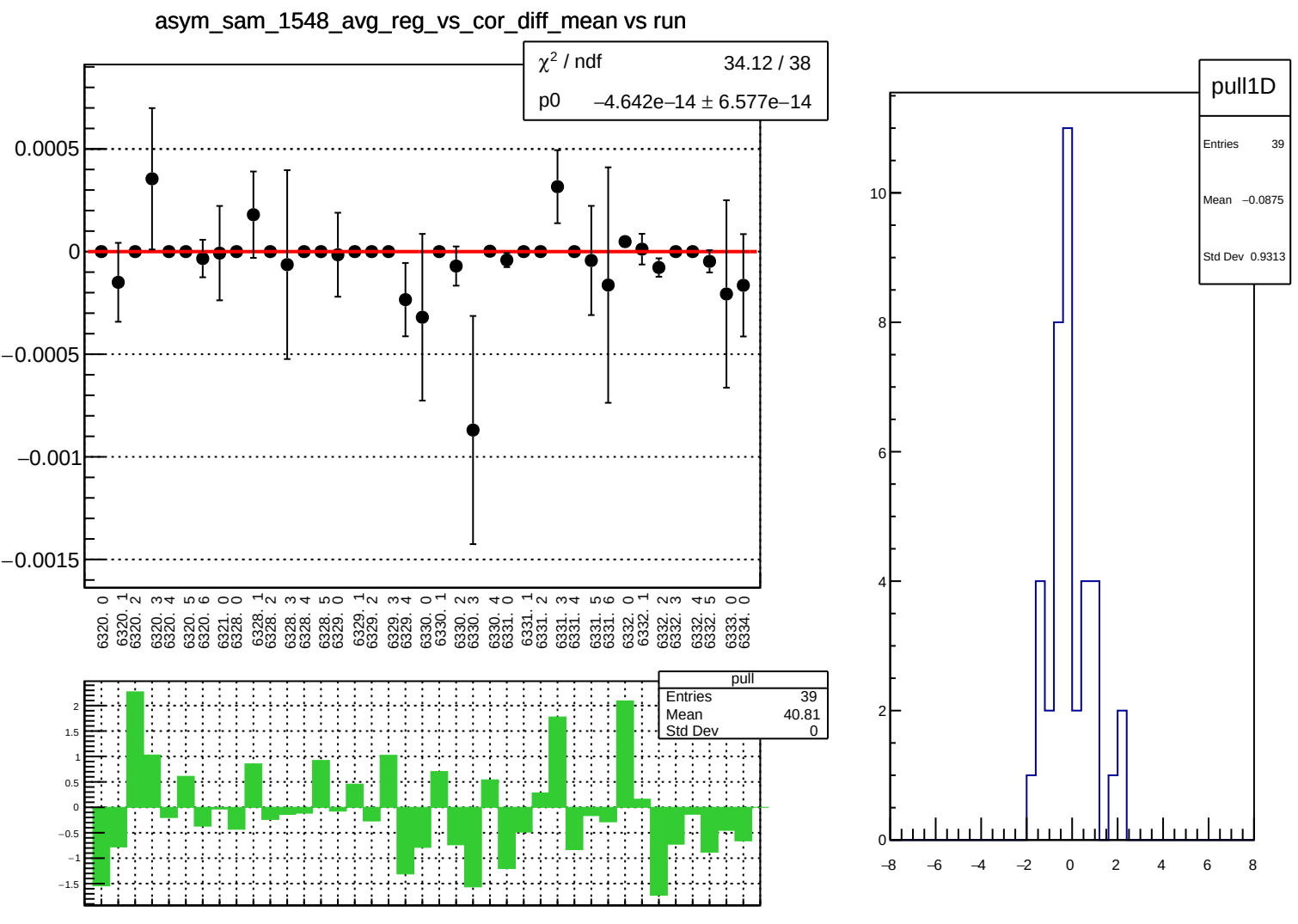

pull1D
Entries 39
Mean −0.03695
Std Dev 0.9715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

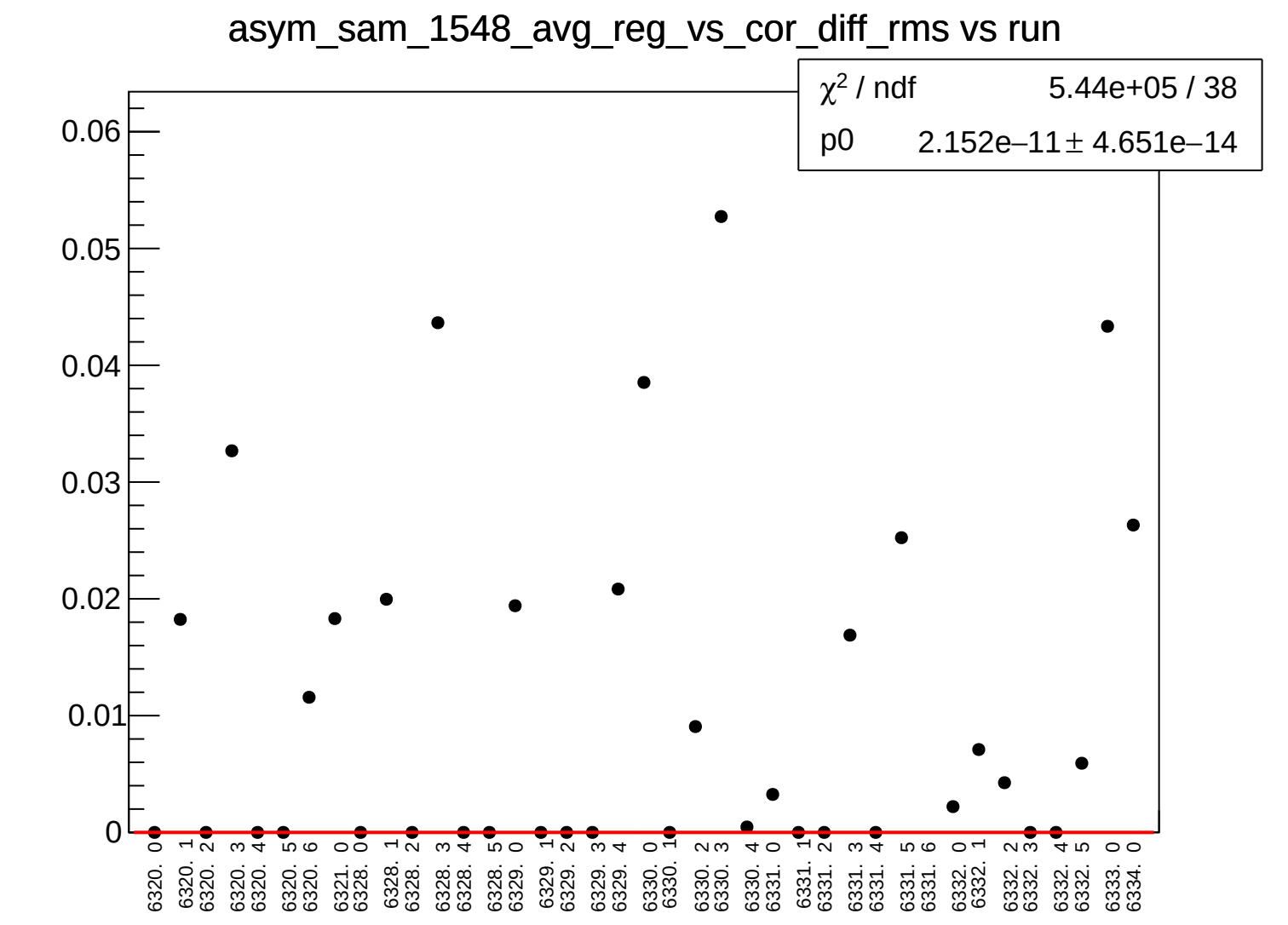

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.065e+04 / 38
p0 828.7 ± 0.965
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

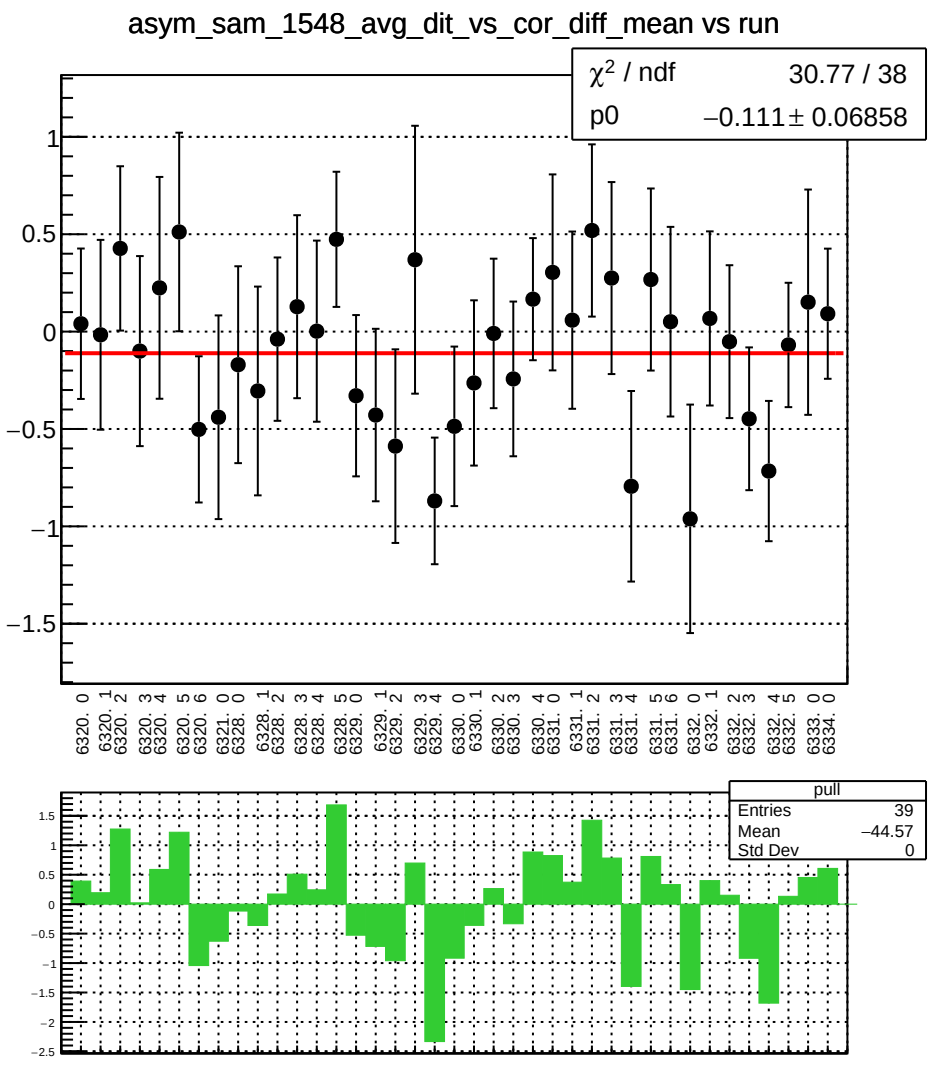

asym_sam_1548_avg_mean vs run
χ² / ndf 39.56 / 38
p0 1107 ± 1379
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −100.9
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

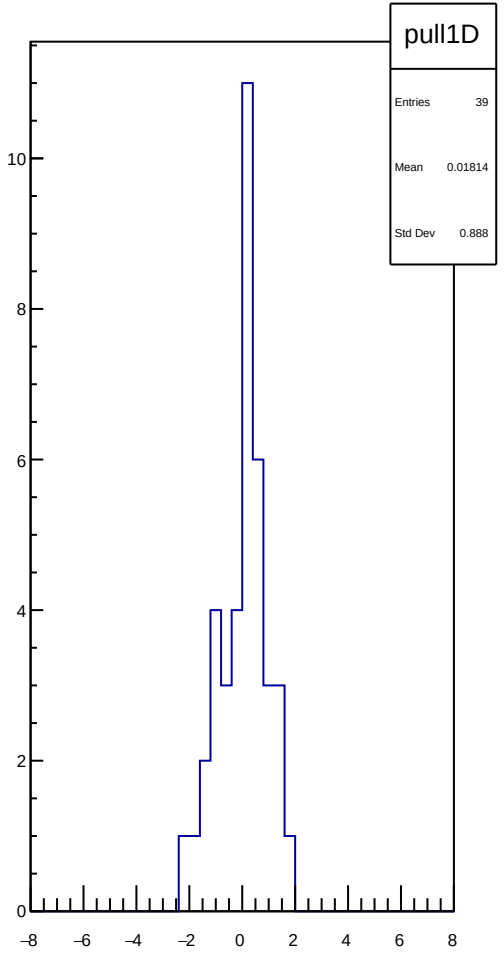

pull1D
Entries 39
Mean 0.03899
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

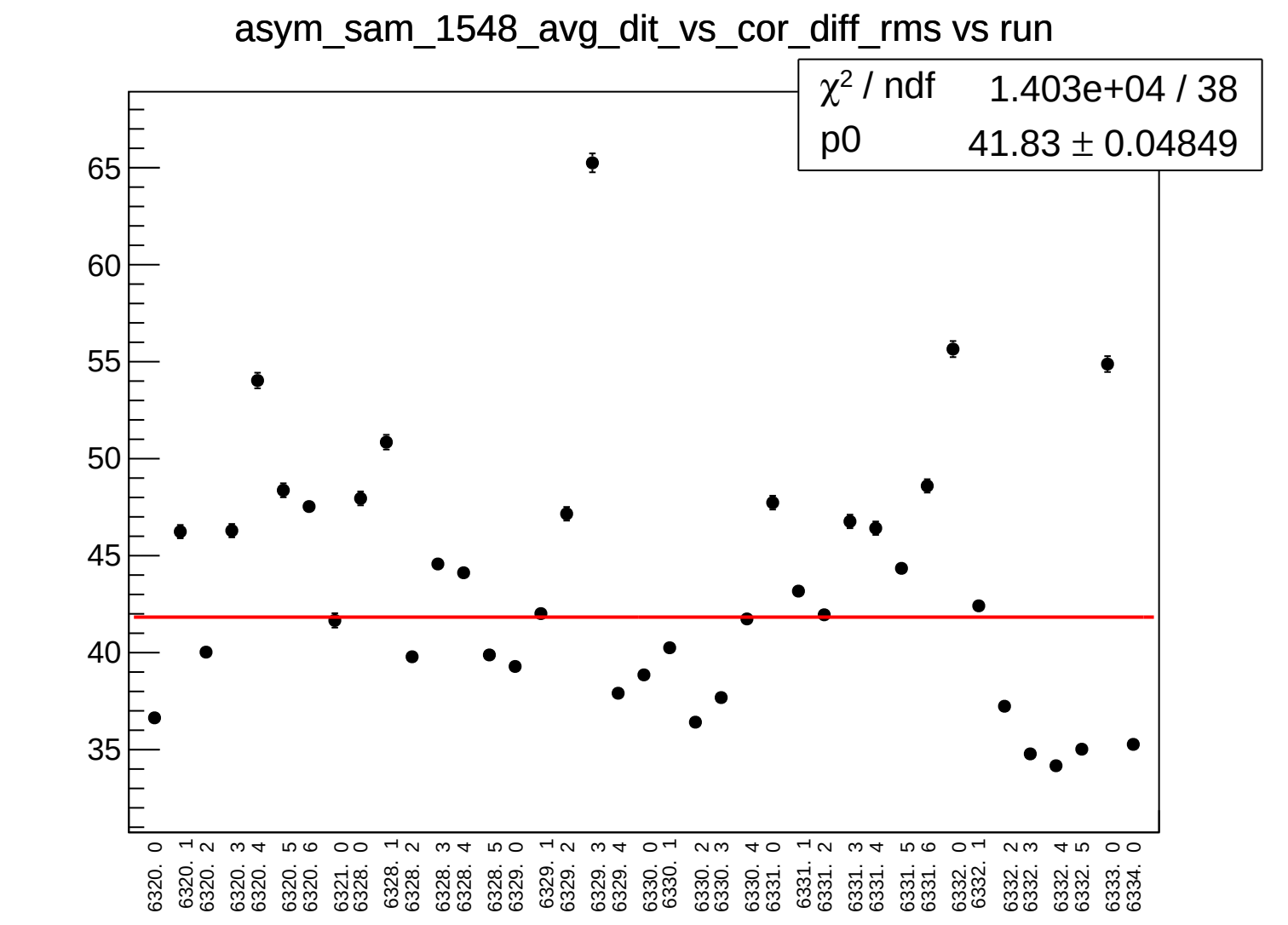

asym_sam_1548_avg_rms vs run
χ² / ndf 1.901e+04 / 38
p0 838.6 ± 0.9754
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

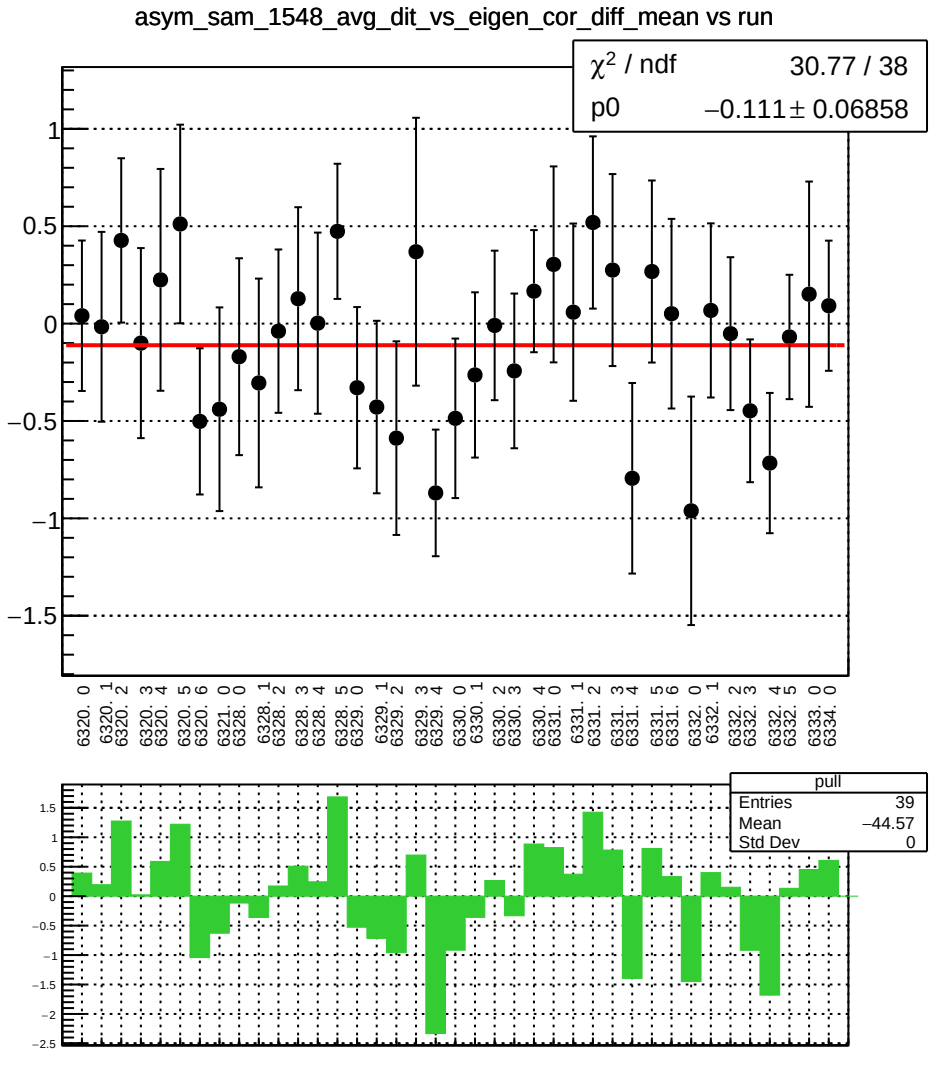

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.12 / 38
p0 −4.642e−14 ± 6.577e−14
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 40.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0875
Std Dev 0.9313
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

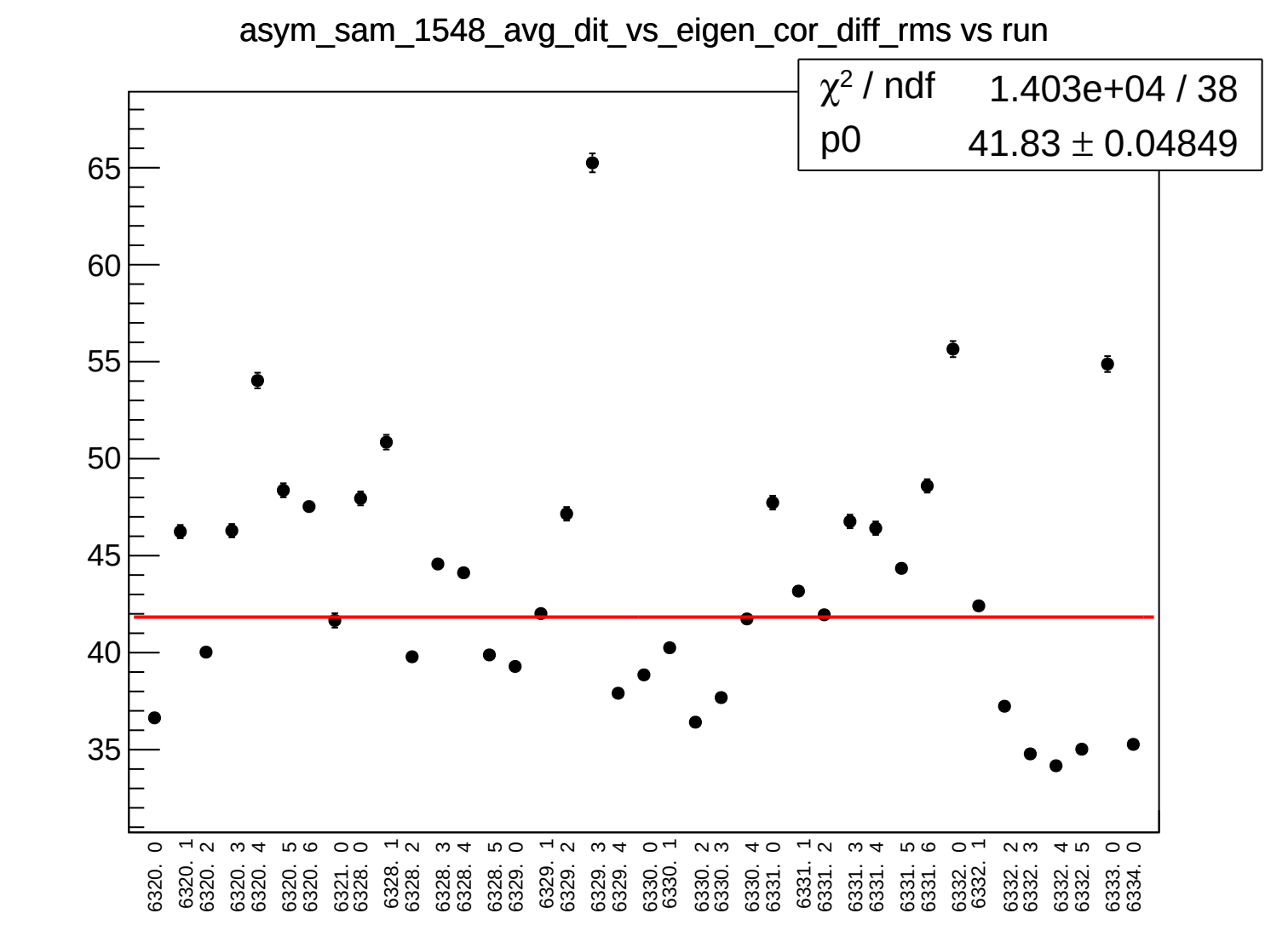

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.44e+05 / 38
p0 2.152e−11 ± 4.651e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

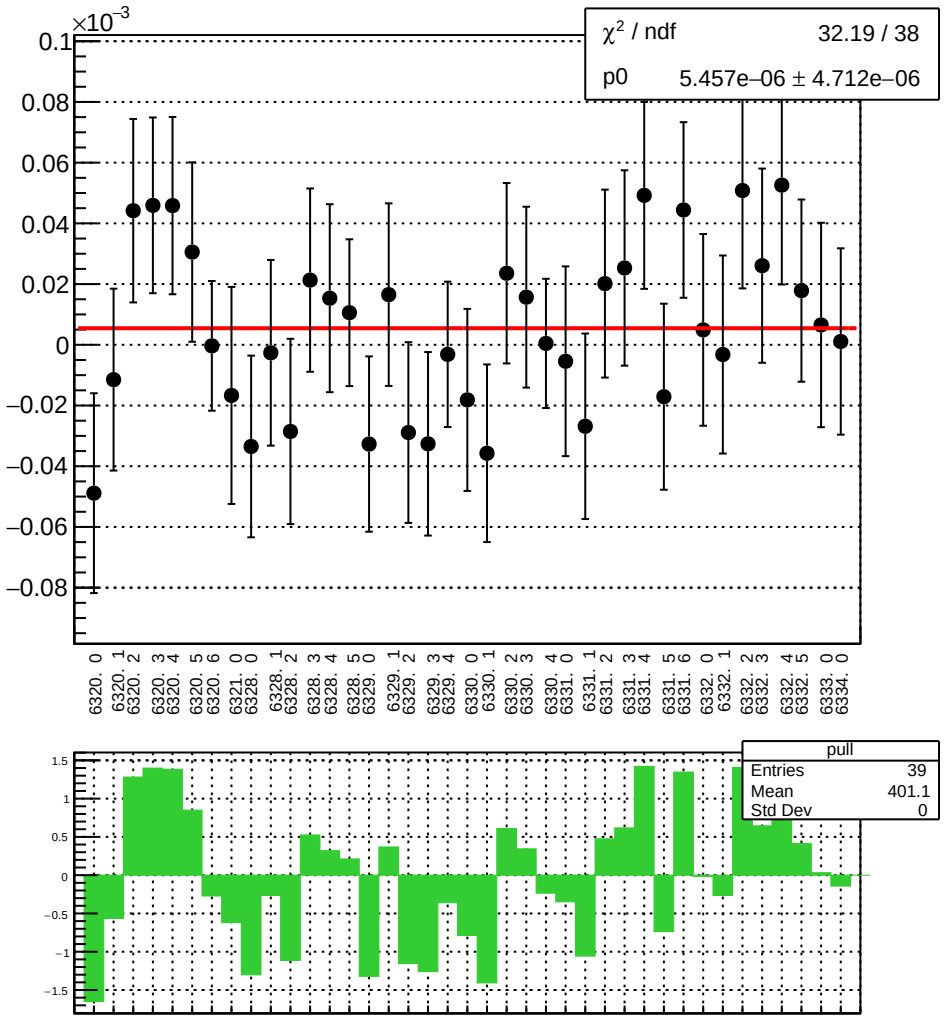

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.77 / 38
p0 −0.111 ± 0.06858
pull
Entries 39
Mean −44.57
Std Dev 0

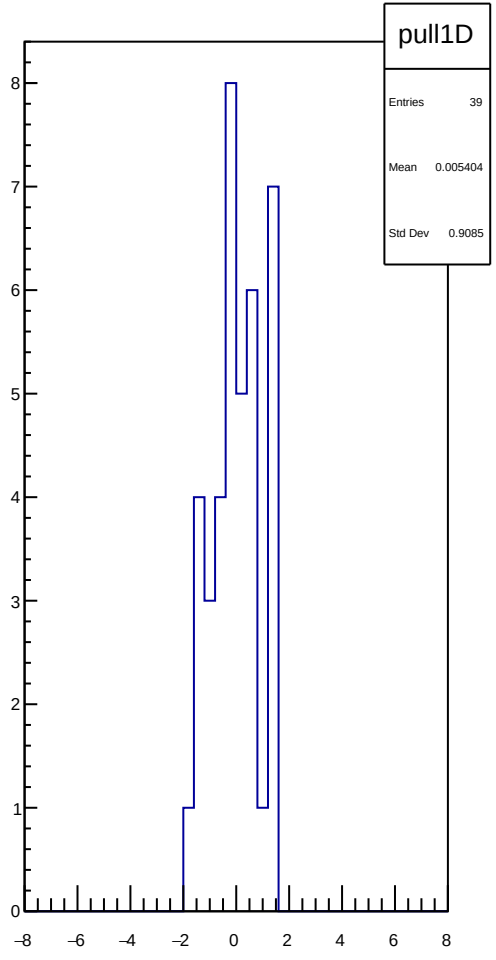

pull1D
Entries 39
Mean 0.01814
Std Dev 0.888

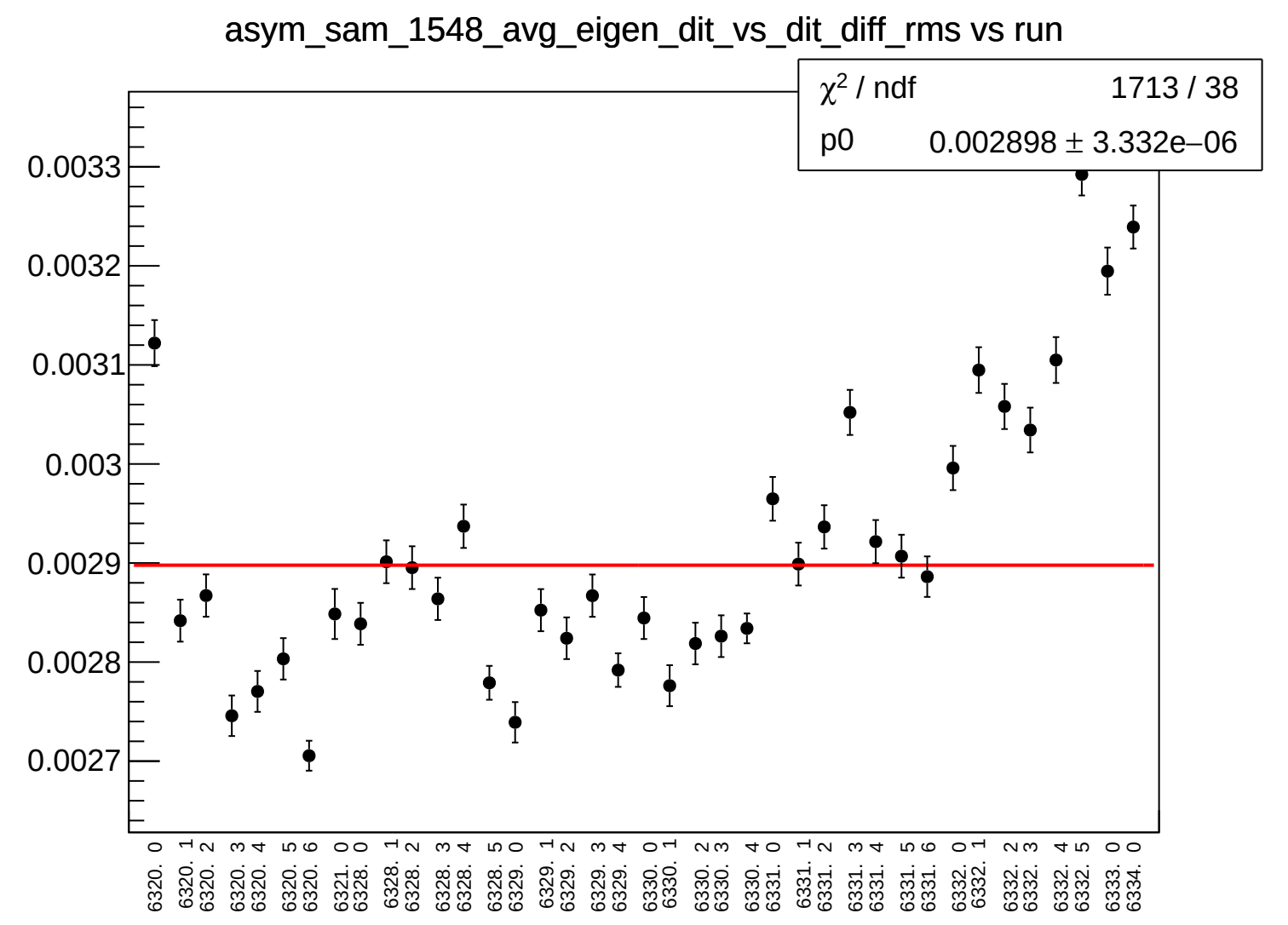

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 38
p0 41.83 ± 0.04849
65
60
55
50
45
40
35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

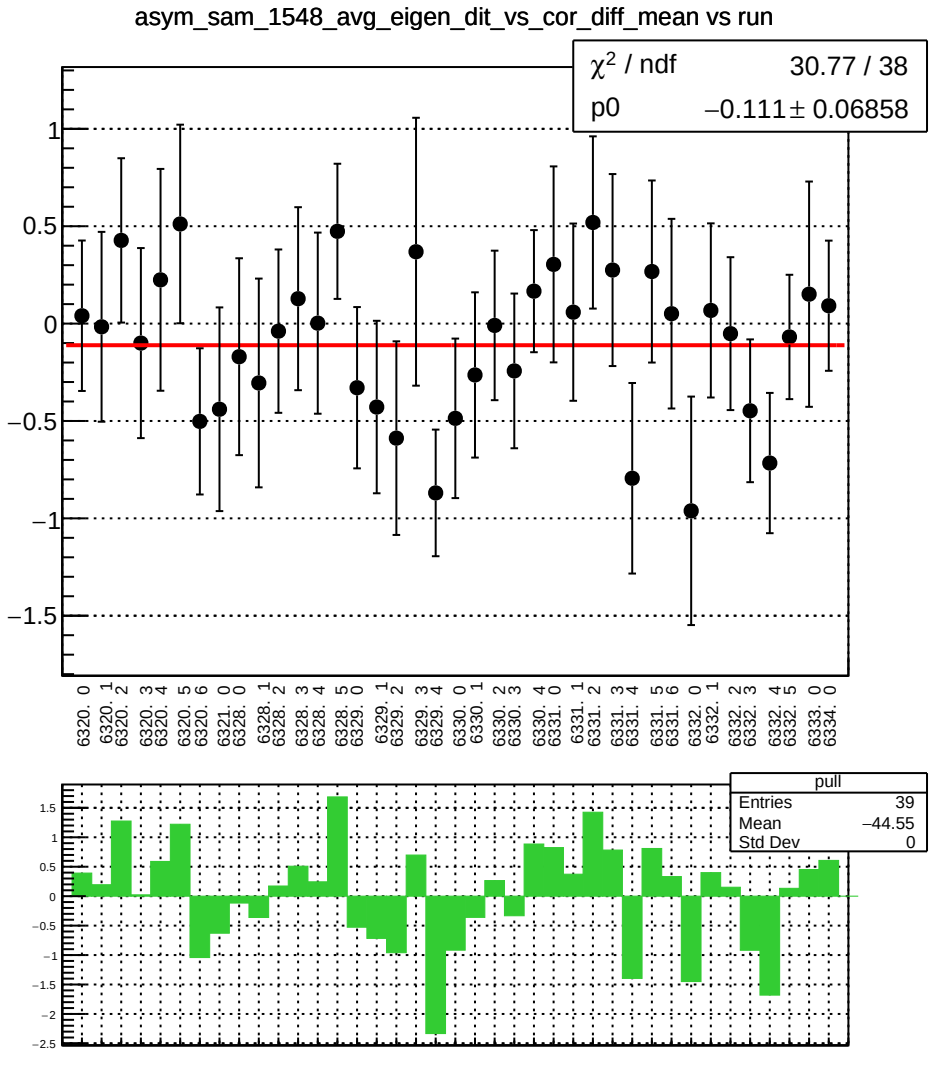

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.77 / 38
p0 −0.111 ± 0.06858
pull
Entries 39
Mean −44.57
Std Dev 0
pull1D
Entries 39
Mean 0.01814
Std Dev 0.888

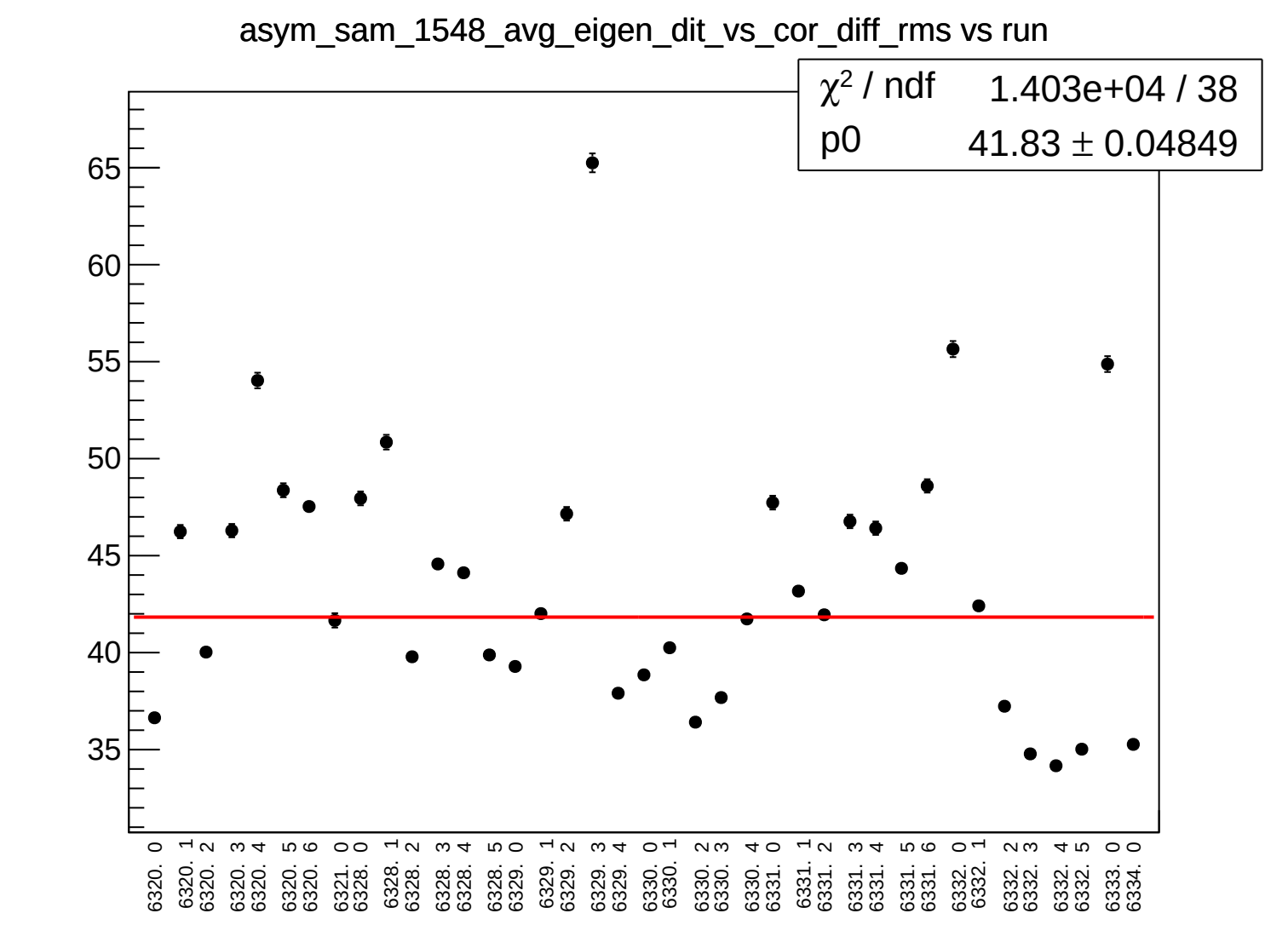

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 38
p0 41.83 ± 0.04849
65
60
55
50
45
40
35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

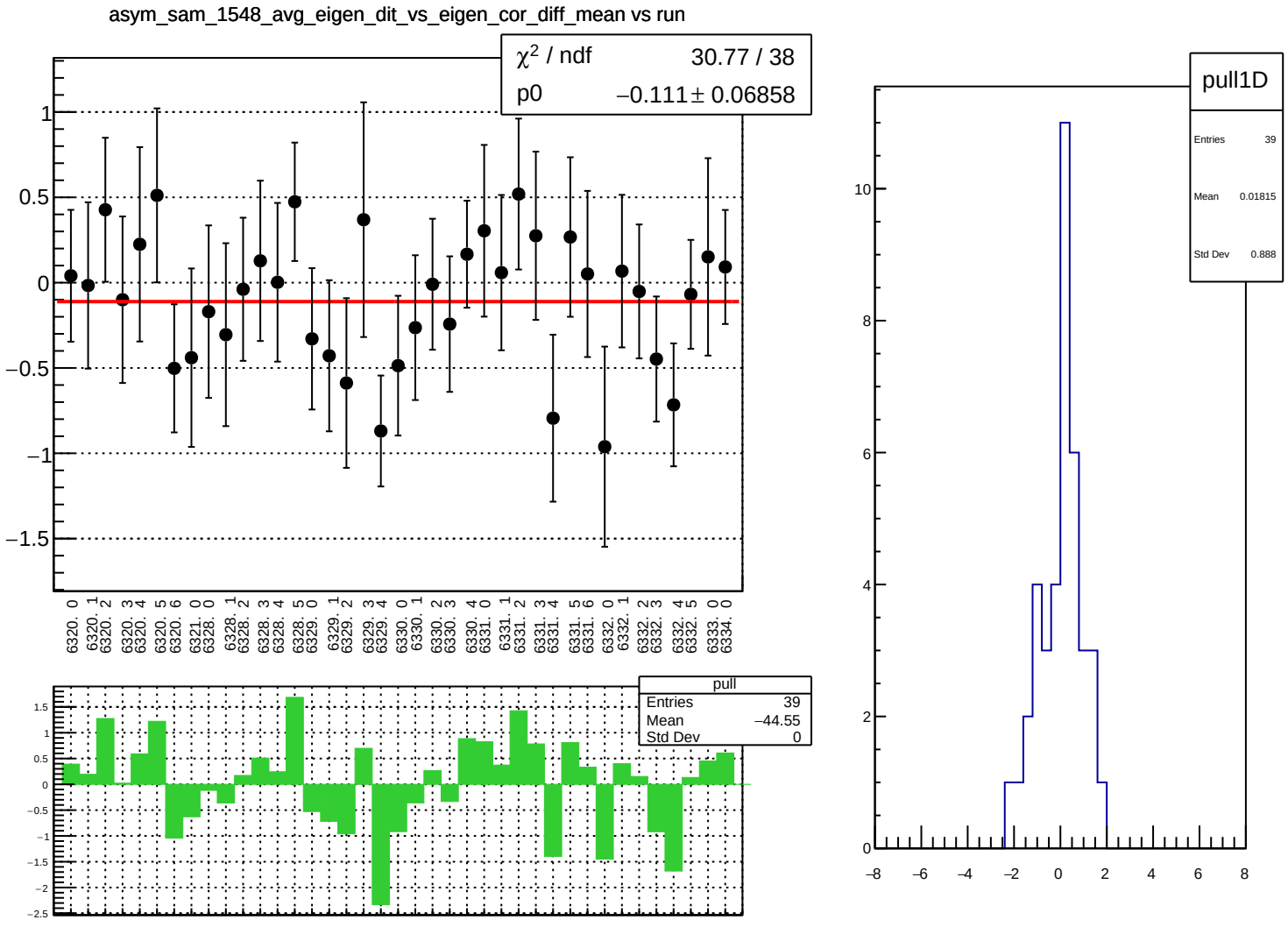

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.19 / 38
p0 5.457e−06 ± 4.712e−06
pull
Entries 39
Mean 401.1
Std Dev 0

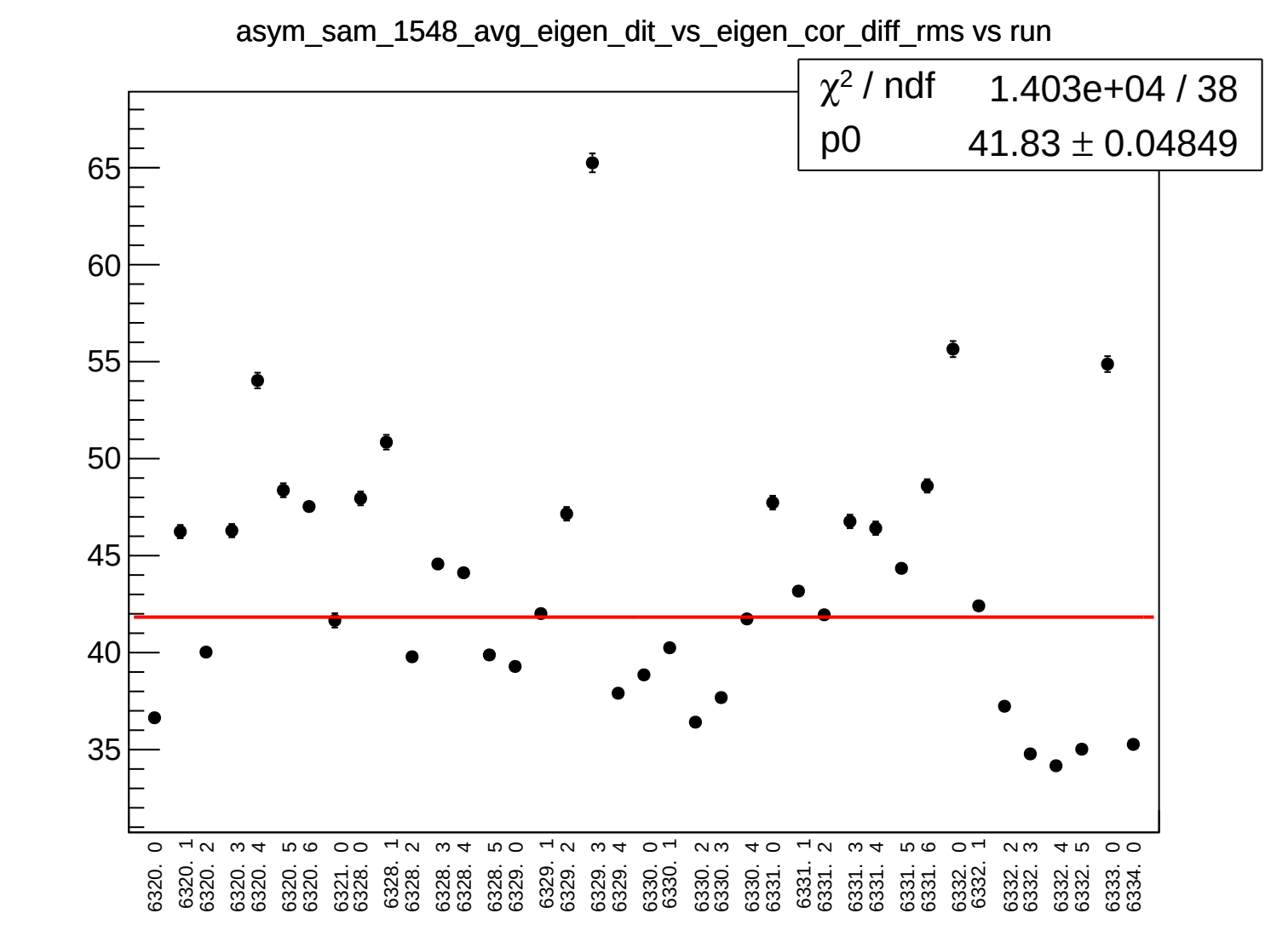

pull1D
Entries 39
Mean 0.005404
Std Dev 0.9085

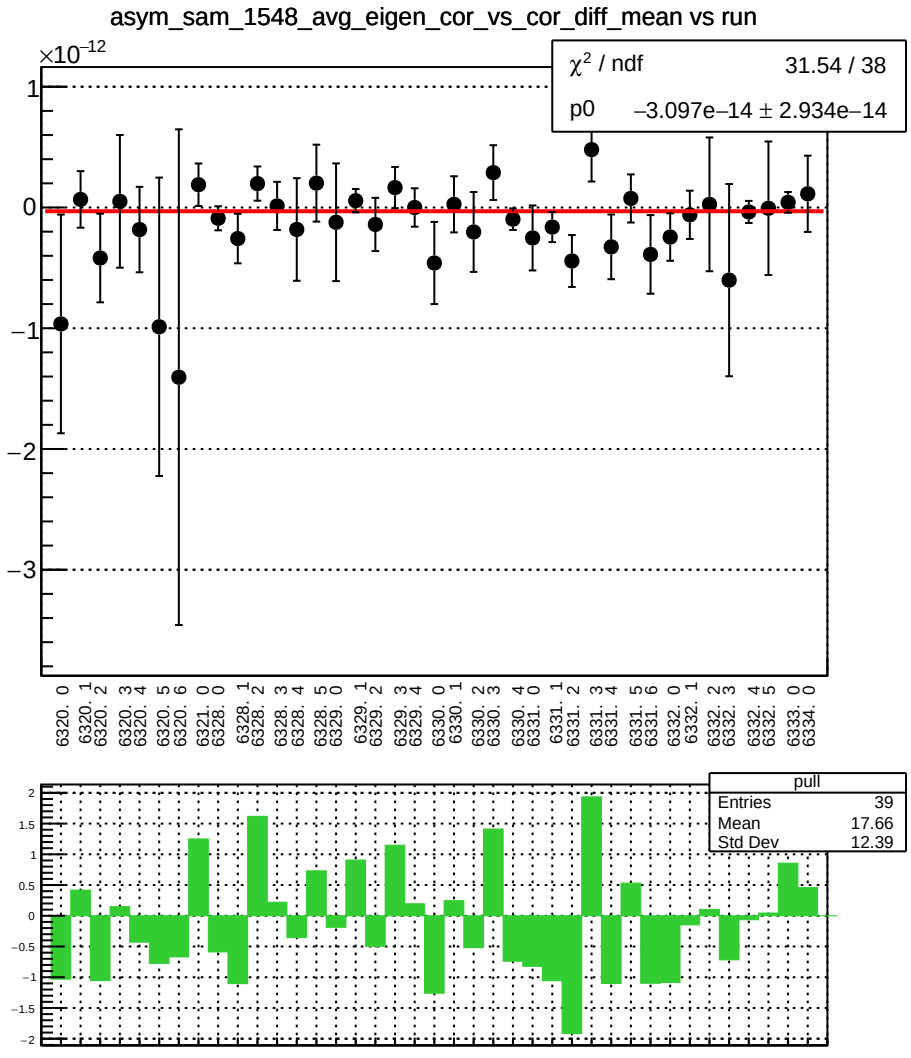

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1713 / 38
p0 0.002898 ± 3.332e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

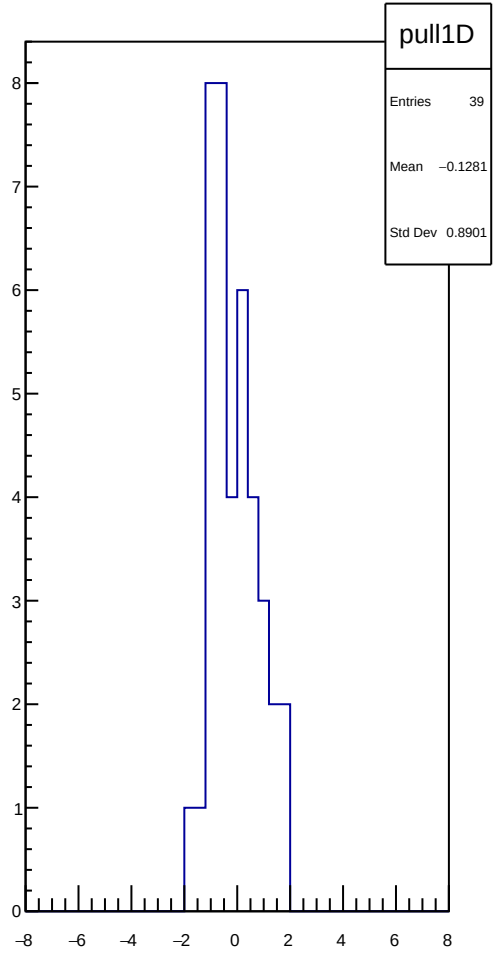

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.77 / 38
p0 −0.111 ± 0.06858
pull
Entries 39
Mean −44.55
Std Dev 0
pull1D
Entries 39
Mean 0.01815
Std Dev 0.888

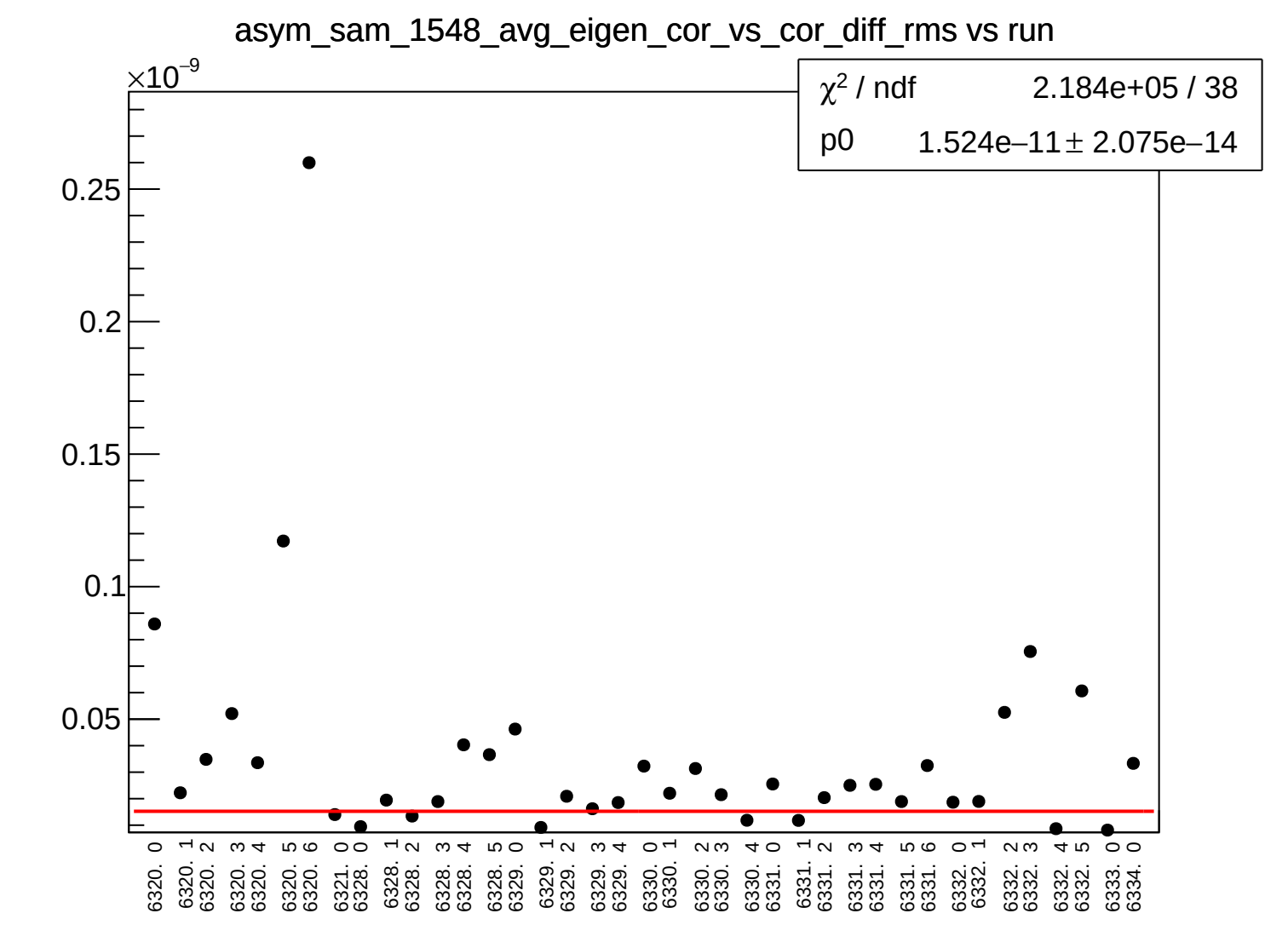

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 38
p0 41.83 ± 0.04849
65
60
55
50
45
40
35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

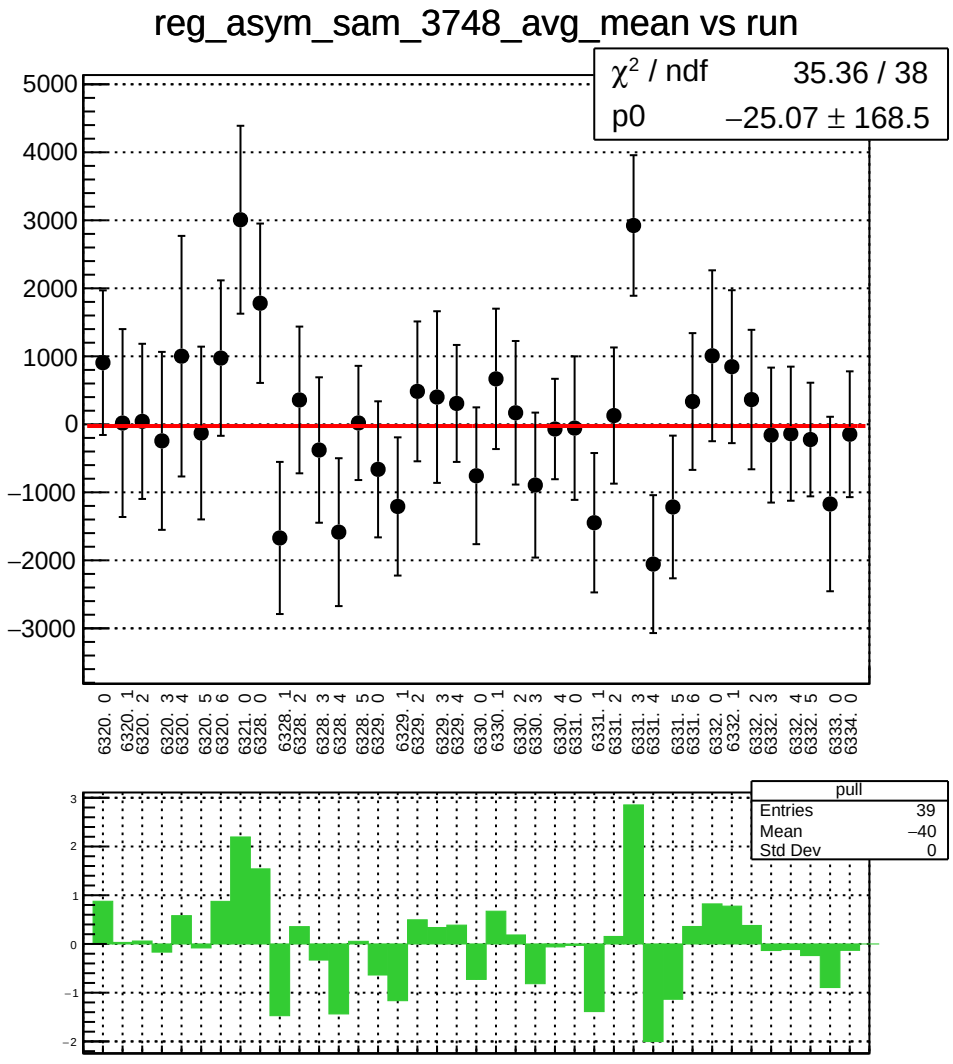

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.77 / 38
p0 −0.111 ± 0.06858
pull
Entries 39
Mean −44.55
Std Dev 0
pull1D
Entries 39
Mean 0.01815
Std Dev 0.888

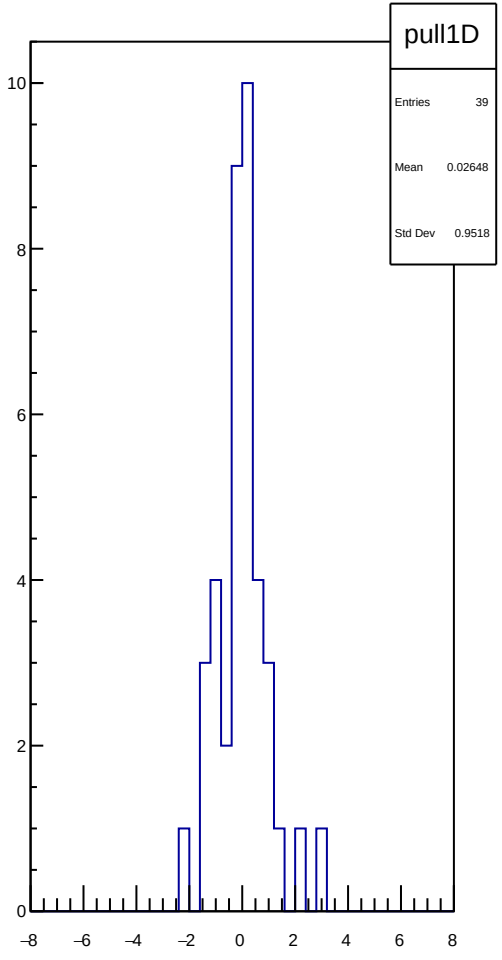

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 38
p0 41.83 ± 0.04849
65
60
55
50
45
40
35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

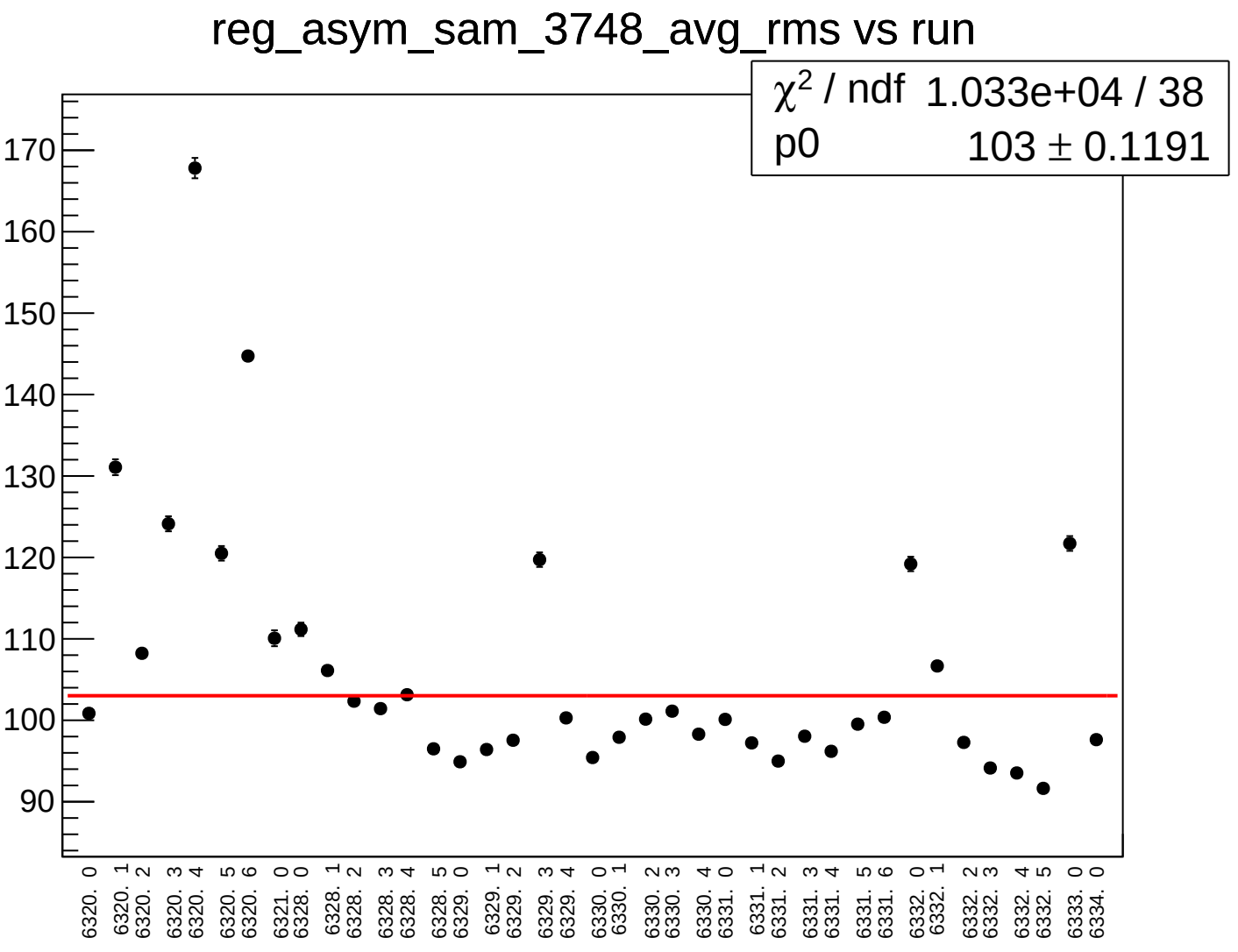

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.54 / 38
p0 −3.097e−14 ± 2.934e−14
pull
Entries 39
Mean 17.66
Std Dev 12.39

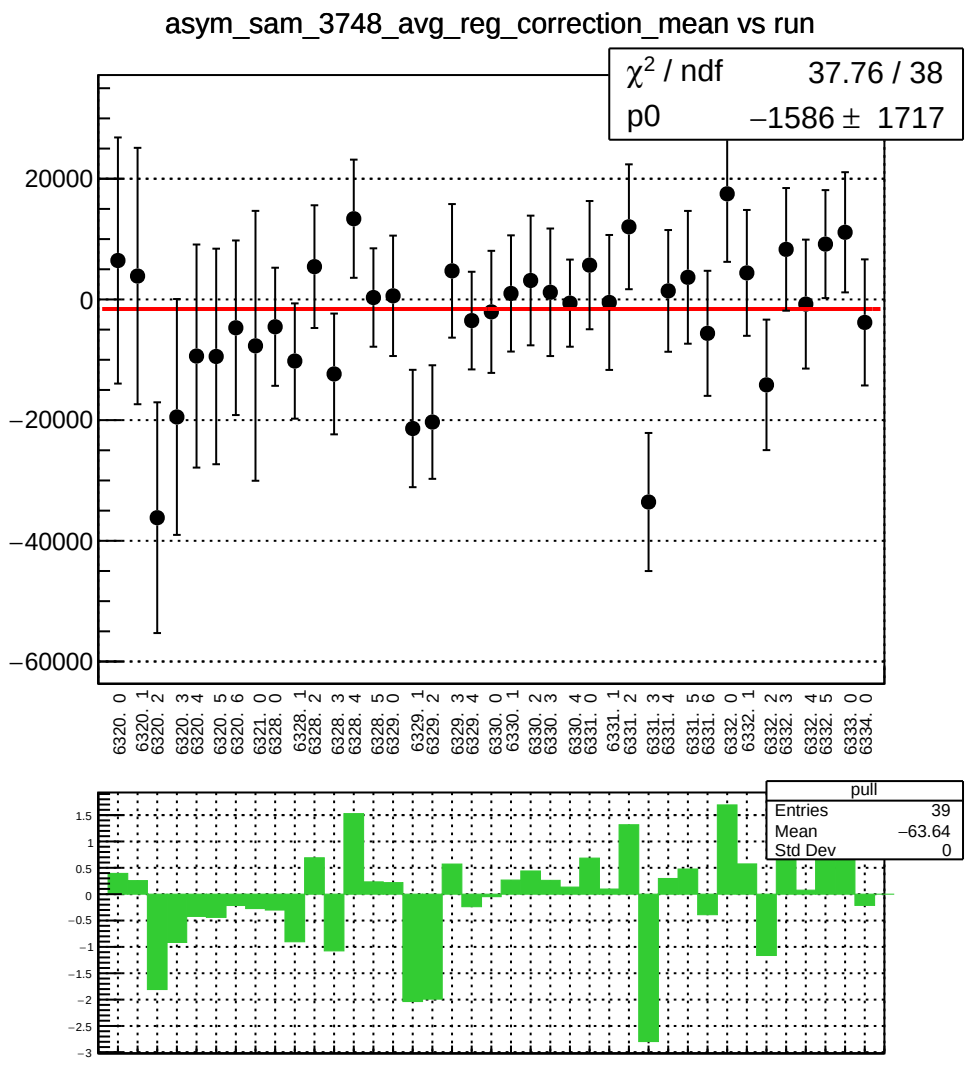

pull1D
Entries 39
Mean −0.1281
Std Dev 0.8901

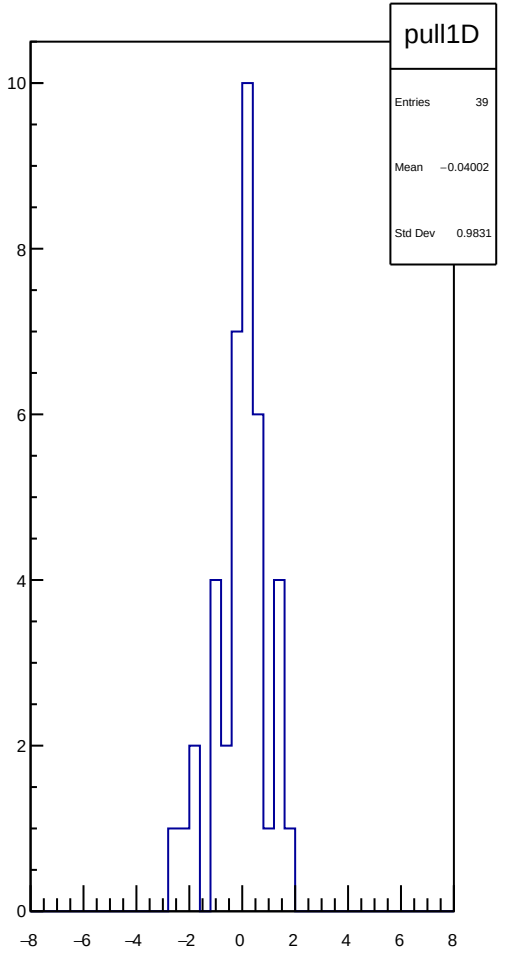

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.184e+05 / 38
p0 1.524e−11 ± 2.075e−14
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

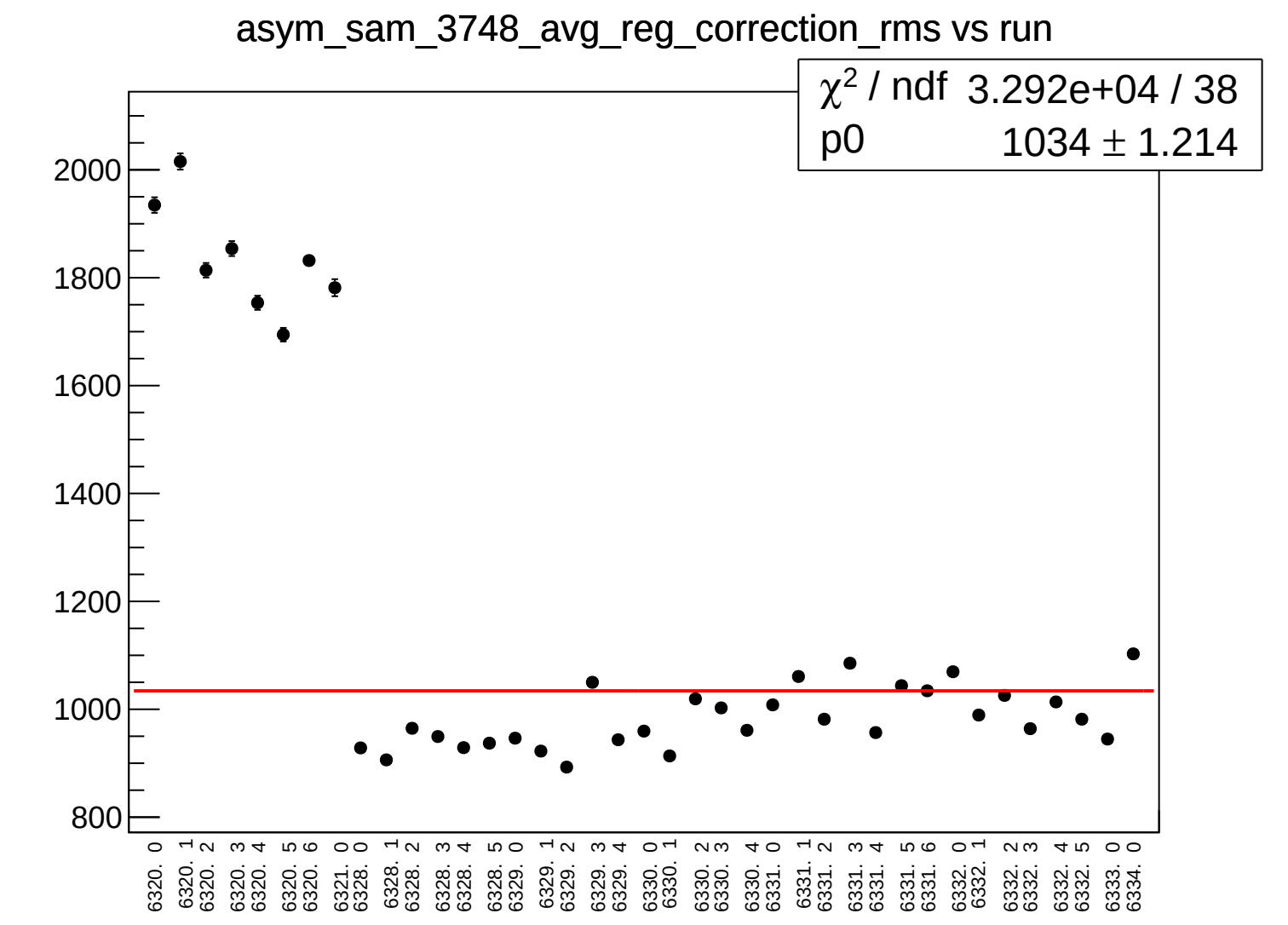

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 35.36 / 38
p0 −25.07 ± 168.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40
Std Dev 0
3
2
1
0
−1
−2

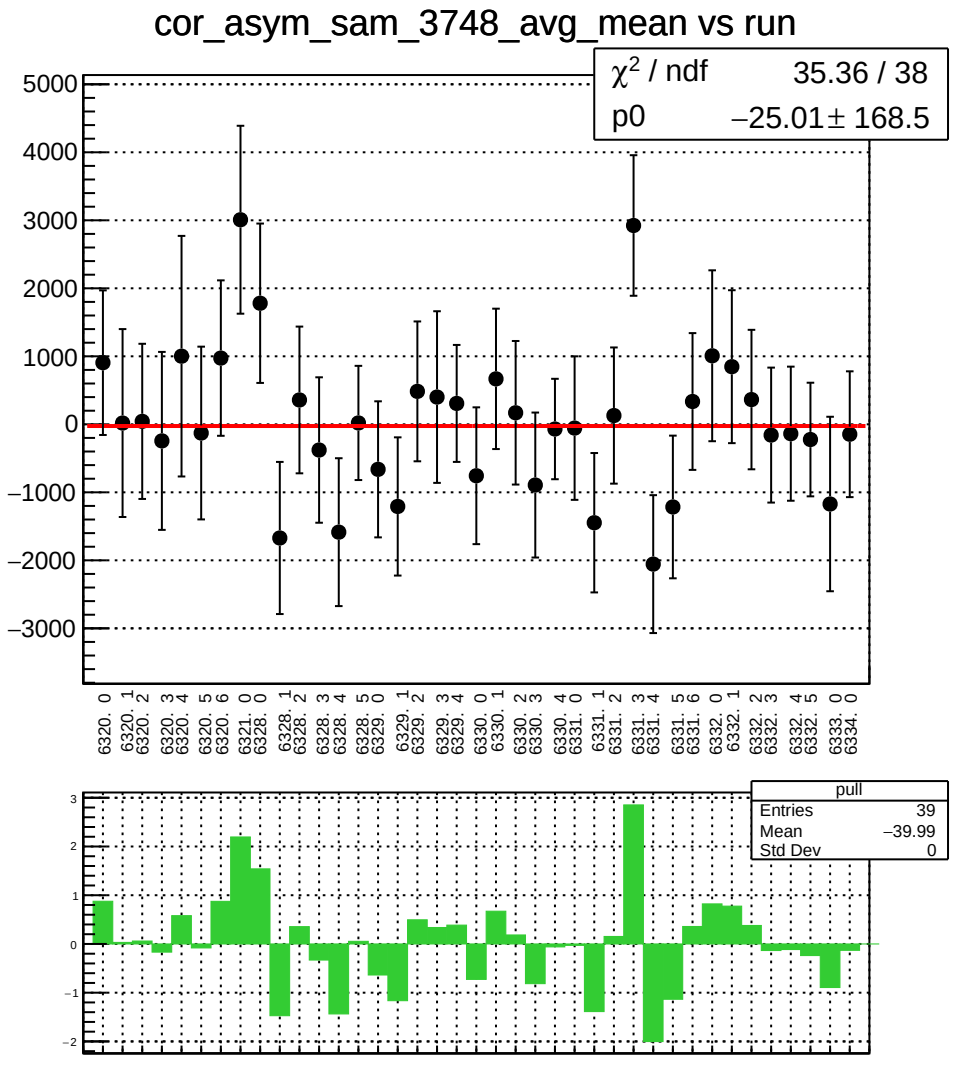

pull1D
Entries 39
Mean 0.02648
Std Dev 0.9518
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

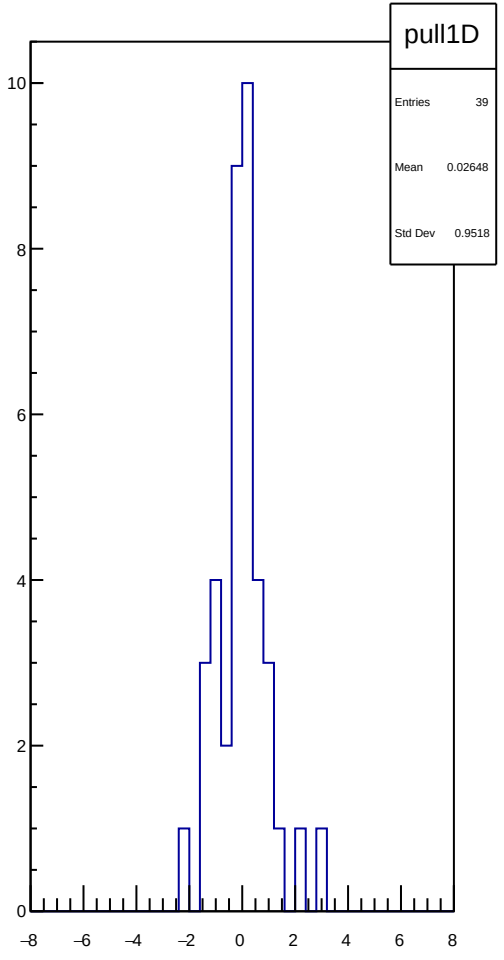

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.033e+04 / 38
p0 103 ± 0.1191
170
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

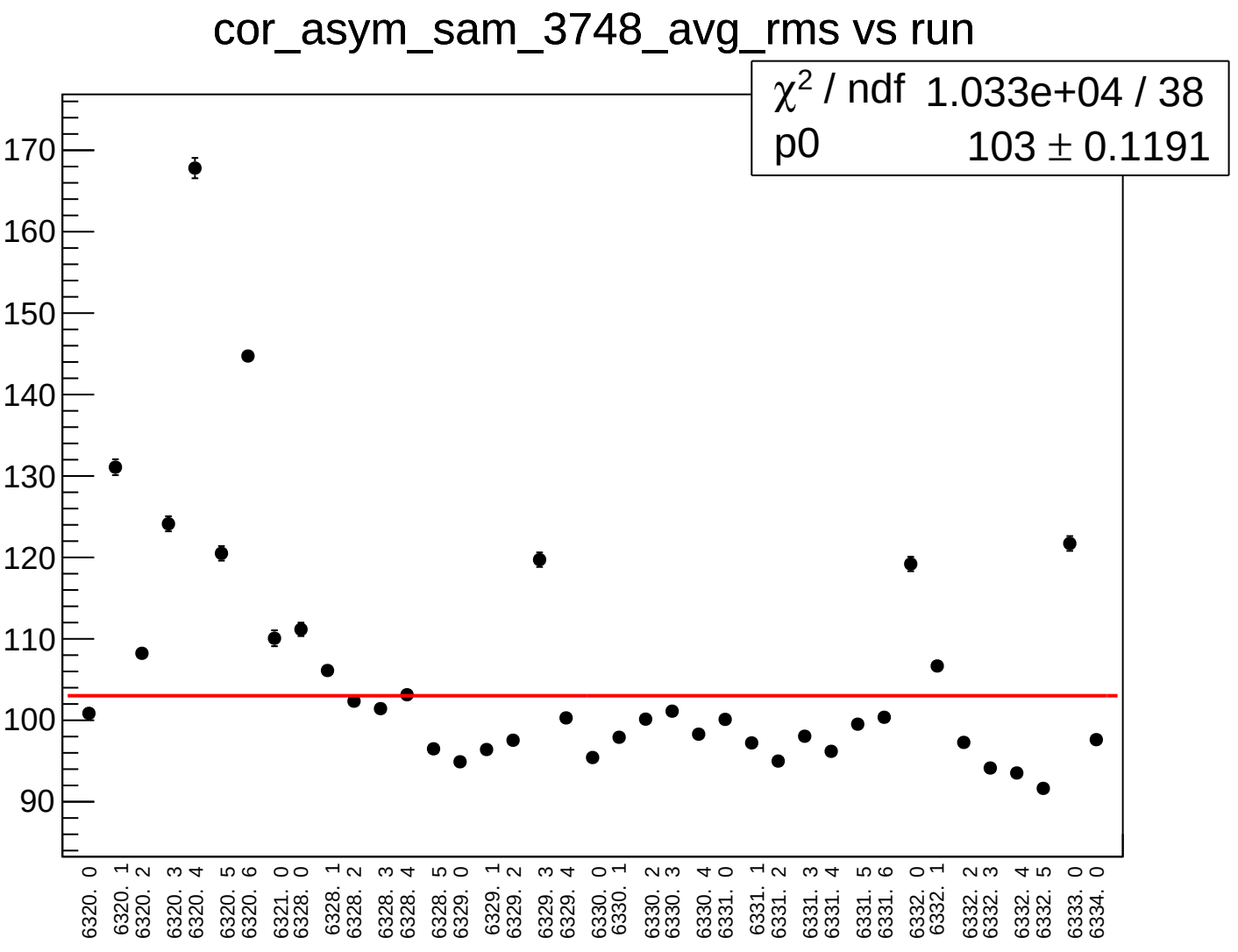

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 37.76 / 38
p0 −1586 ± 1717
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

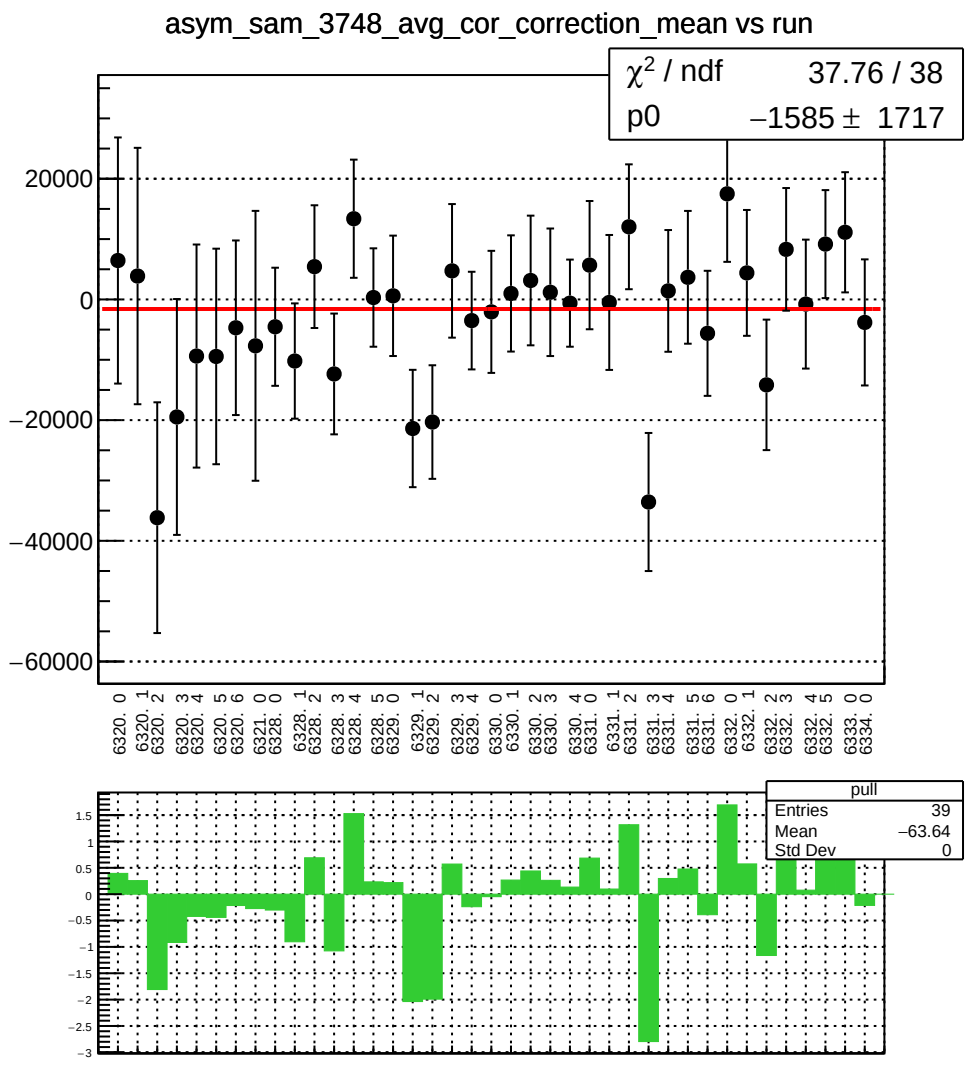

pull1D
Entries 39
Mean −0.04002
Std Dev 0.9831
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

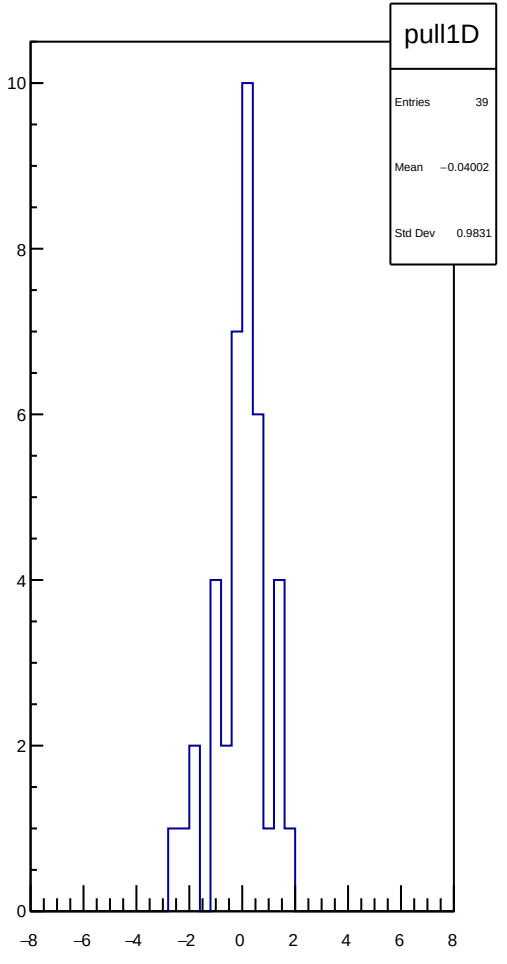

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3.292e+04 / 38
p0 1034 ± 1.214
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

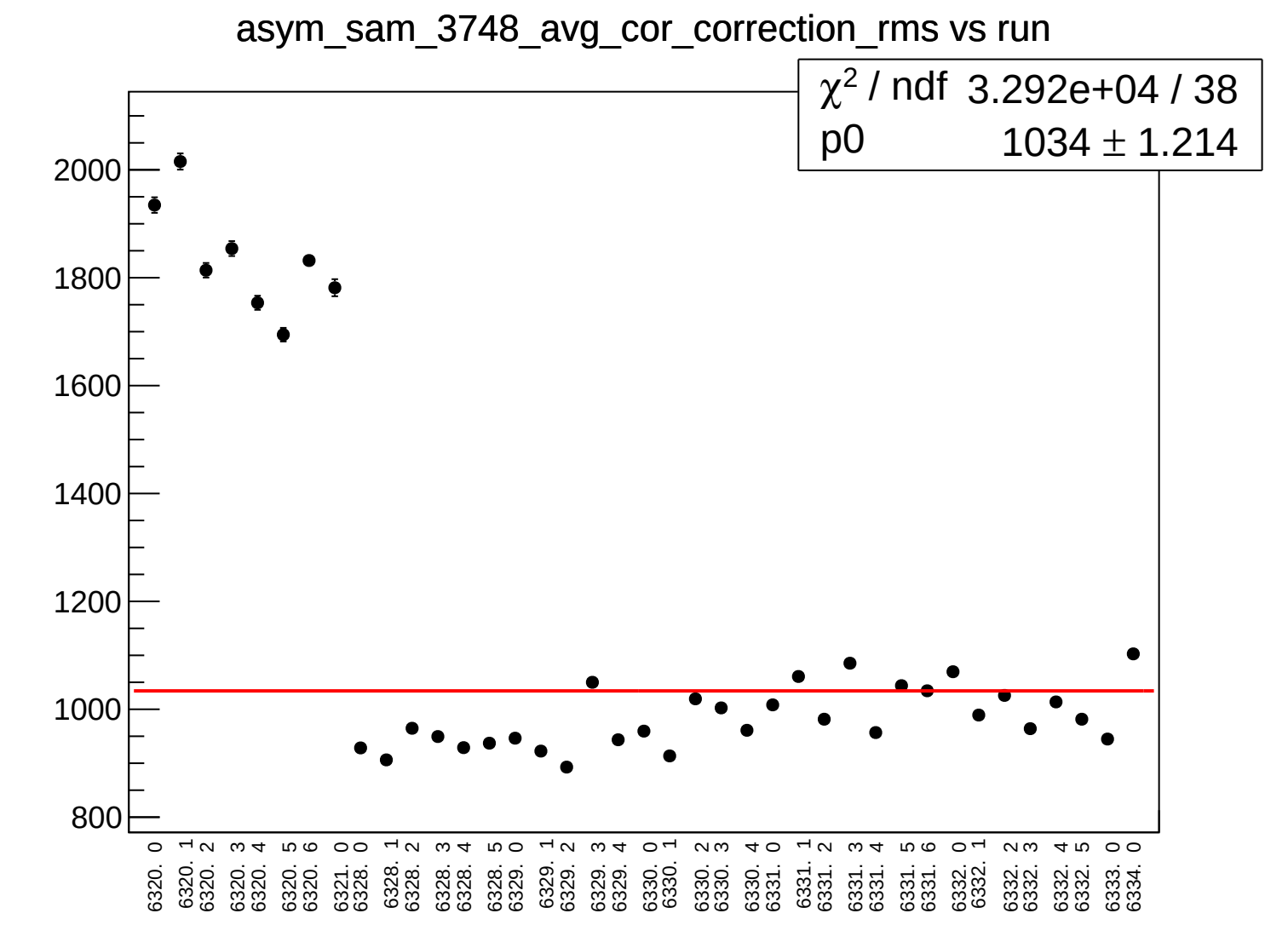

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 35.36 / 38
p0 −25.01± 168.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.99
Std Dev 0
3
2
1
0
−1
−2

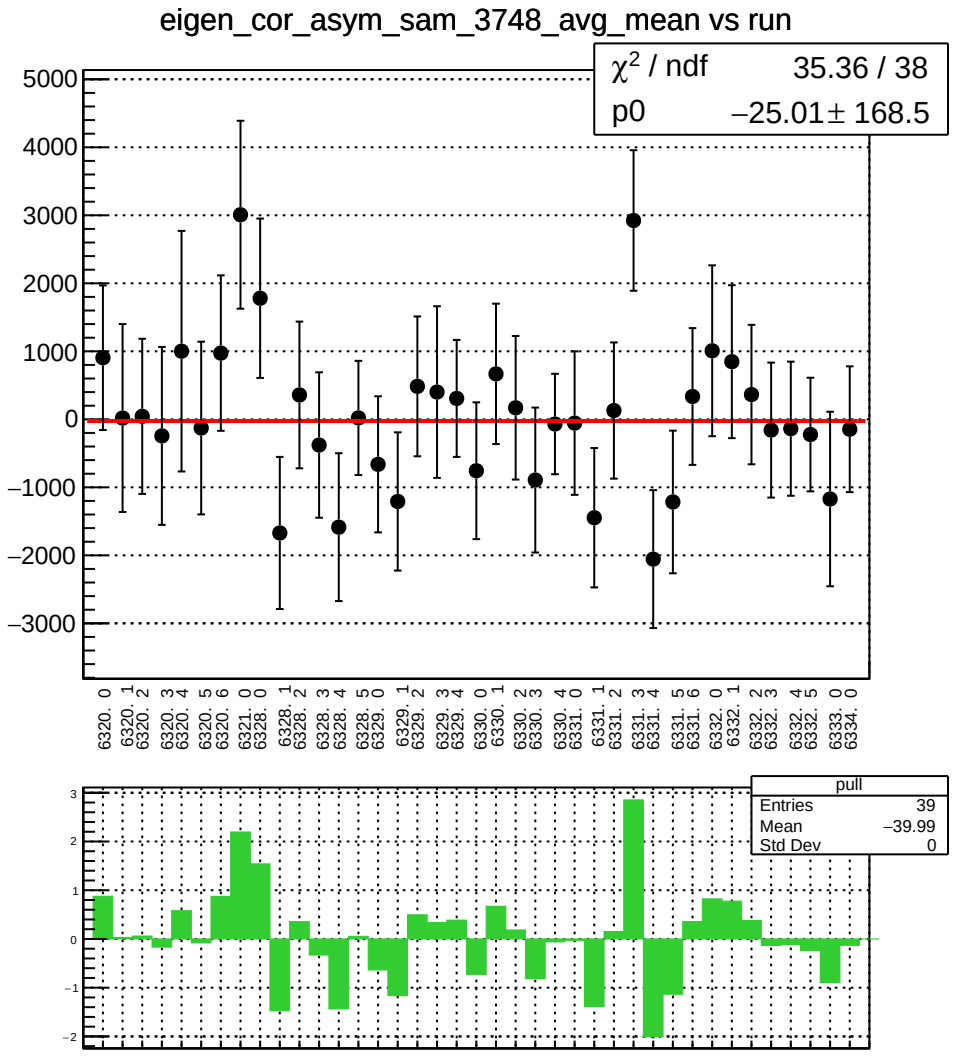

pull1D
Entries 39
Mean 0.02648
Std Dev 0.9518
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

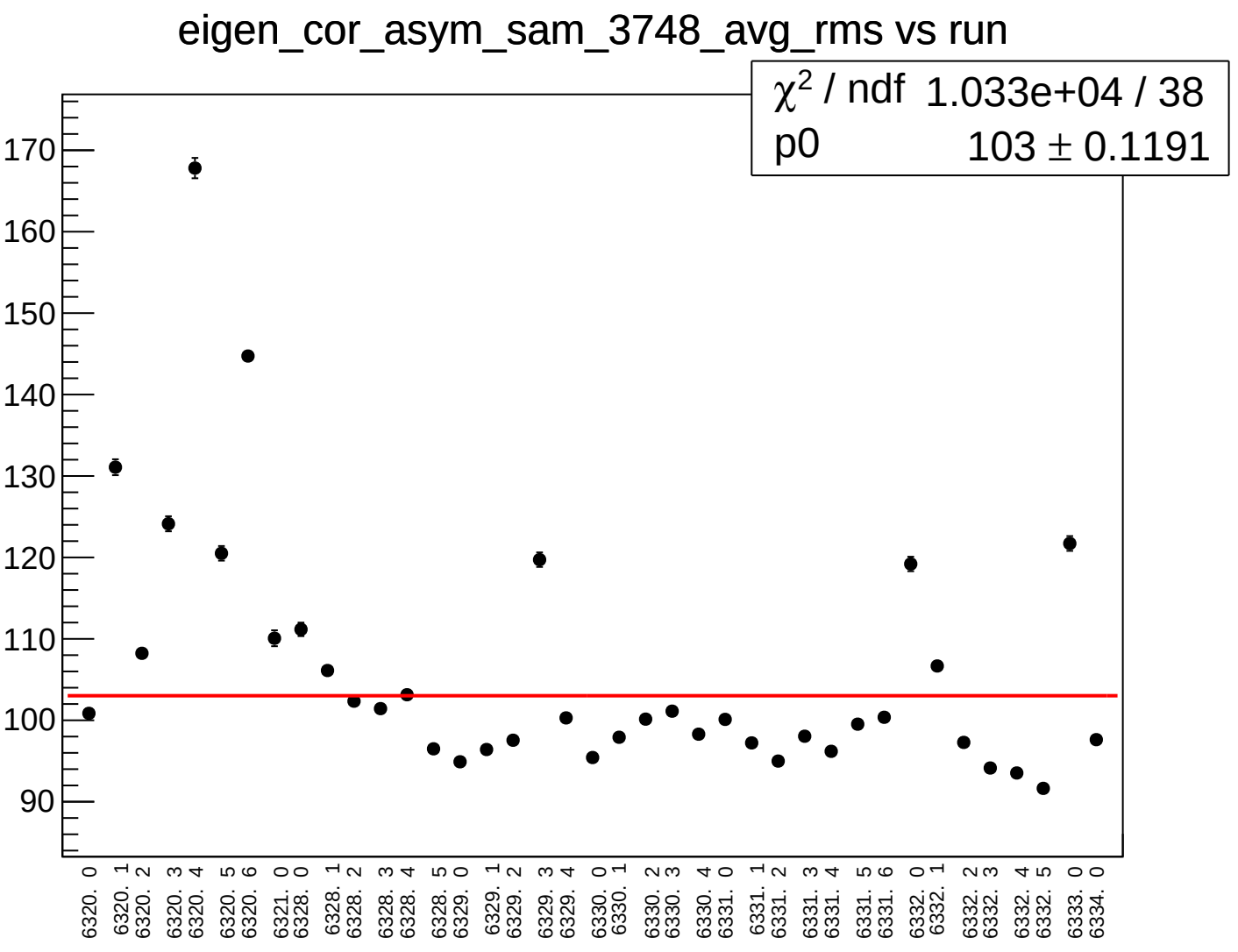

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.033e+04 / 38
p0 103 ± 0.1191
170
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

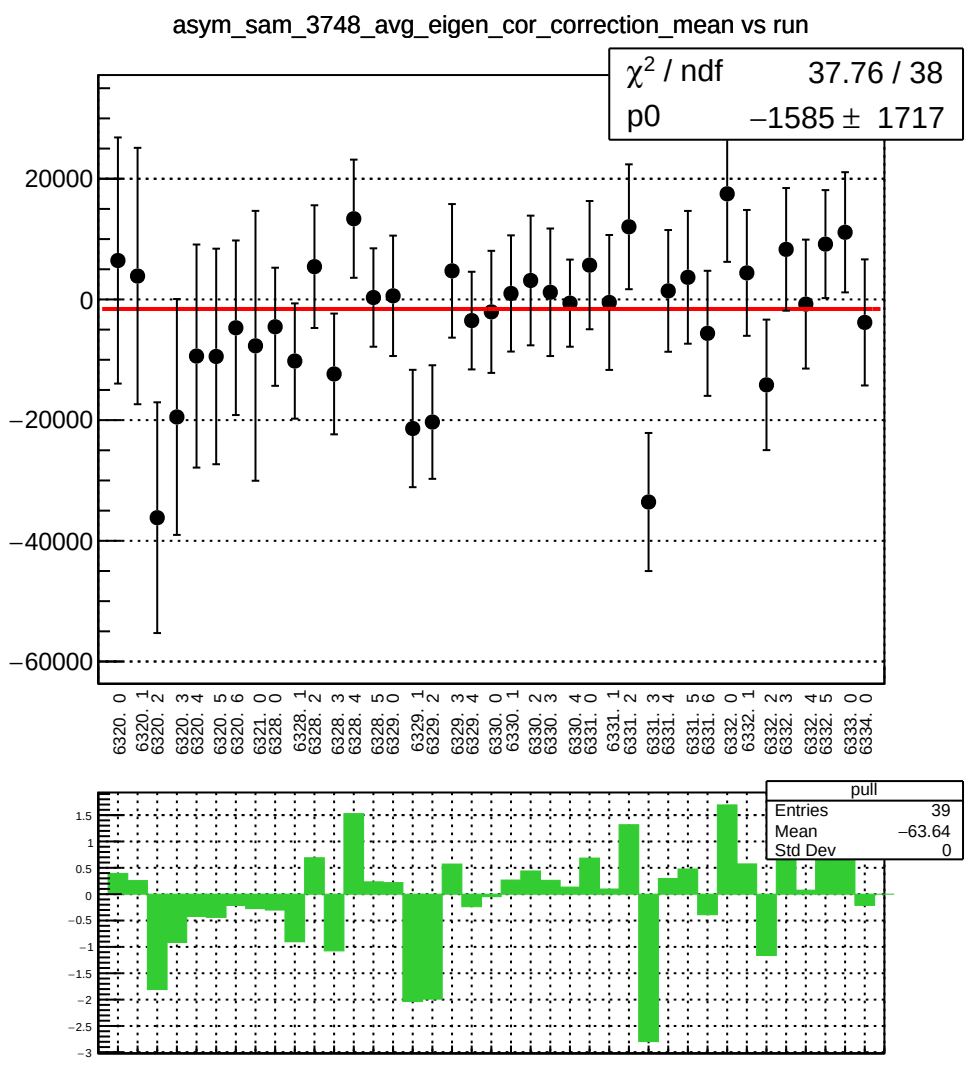

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 37.76 / 38
p0 −1585 ± 1717
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

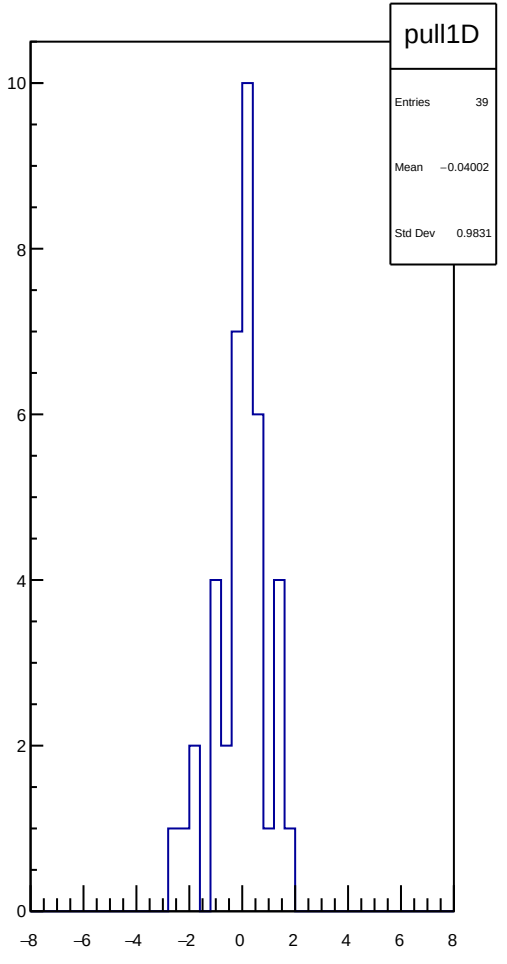

pull1D
Entries 39
Mean −0.04002
Std Dev 0.9831
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

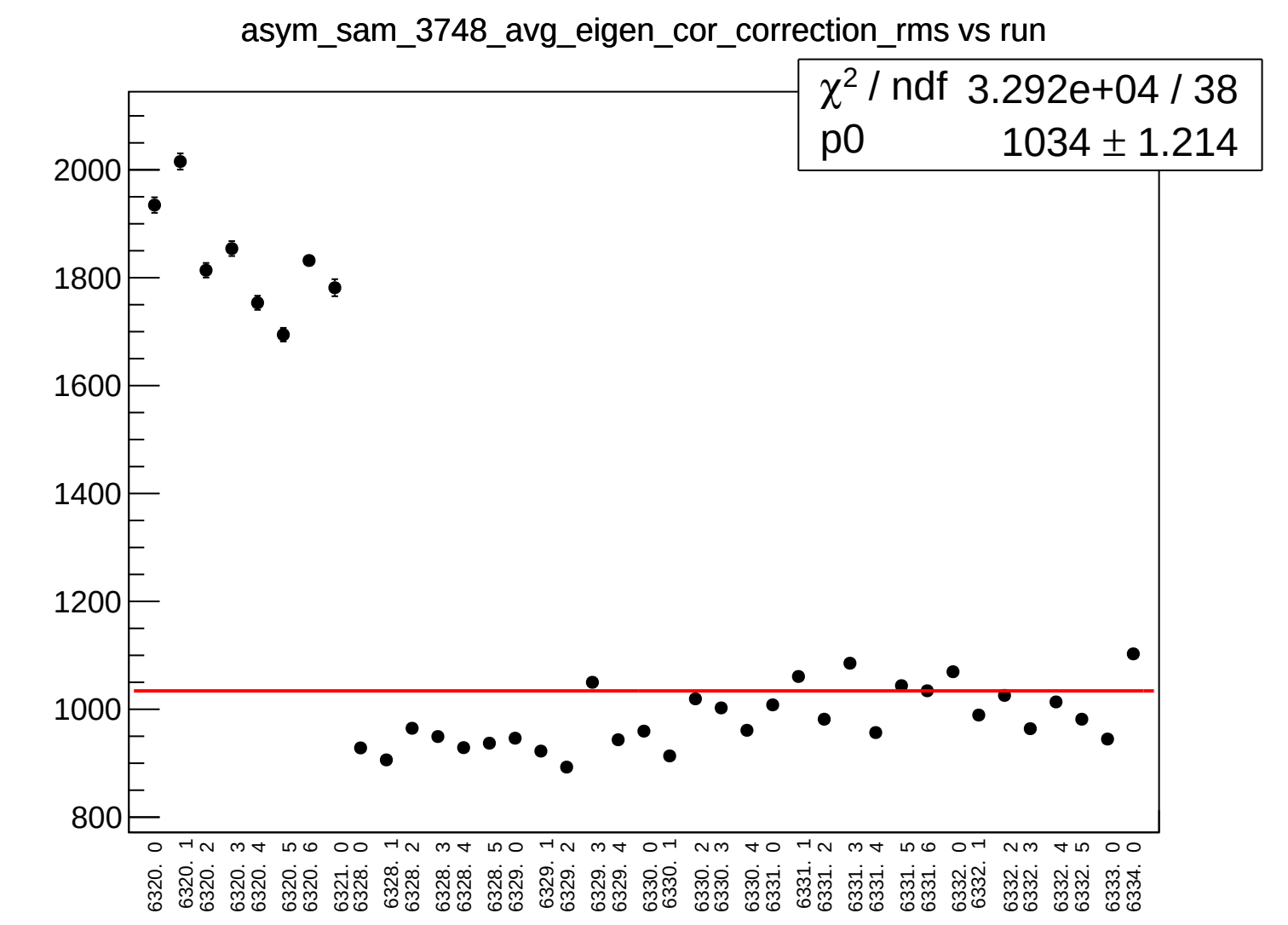

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3.292e+04 / 38
p0 1034 ± 1.214
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

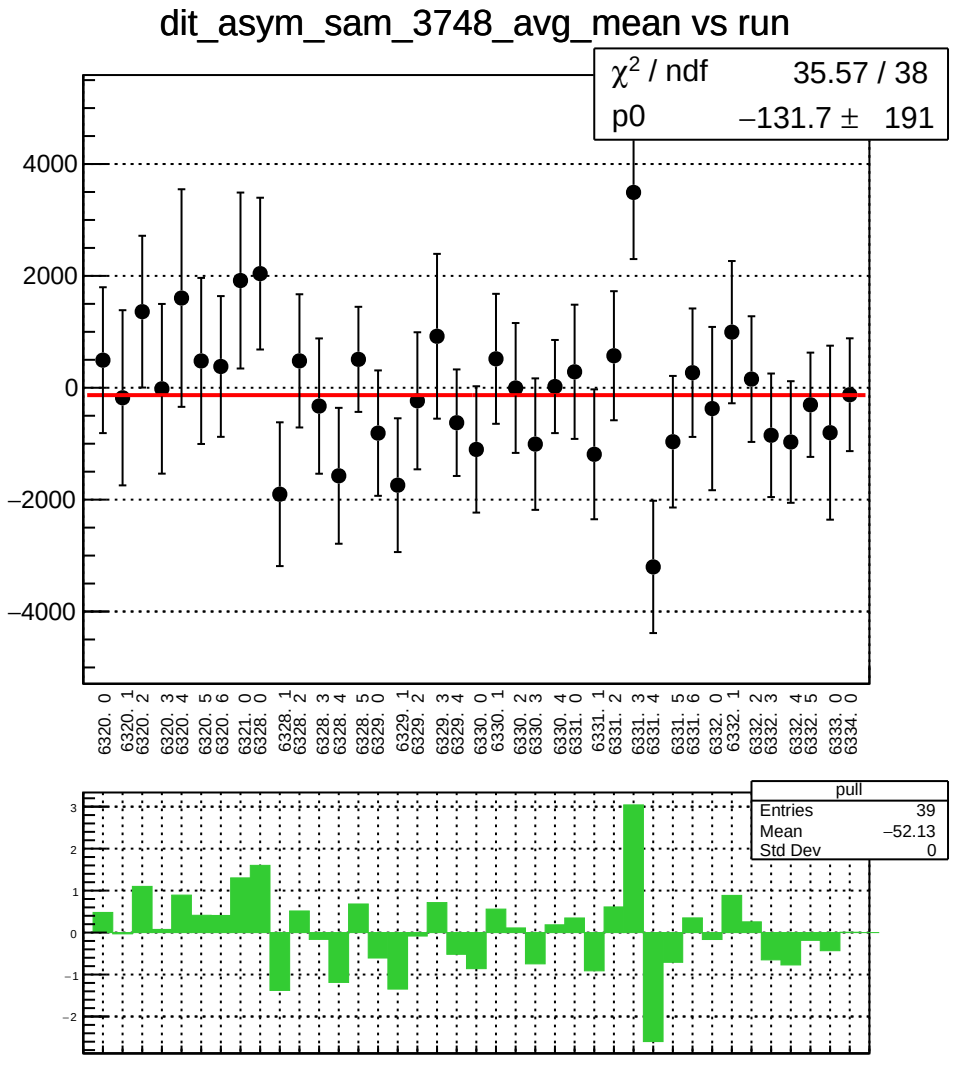

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 35.36 / 38
p0 −25.01± 168.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.99
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02648
Std Dev 0.9518
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

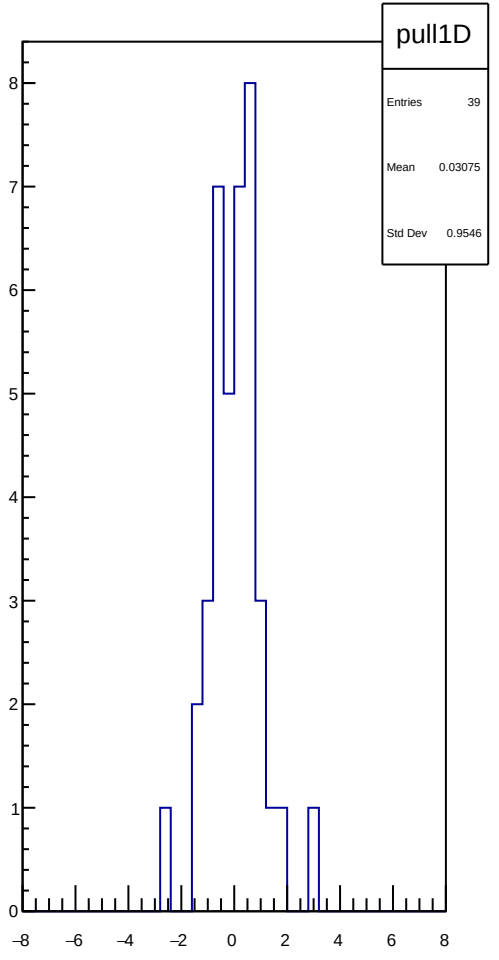

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.033e+04 / 38
p0 103 ± 0.1191
170
160
150
140
130
120
110
100
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

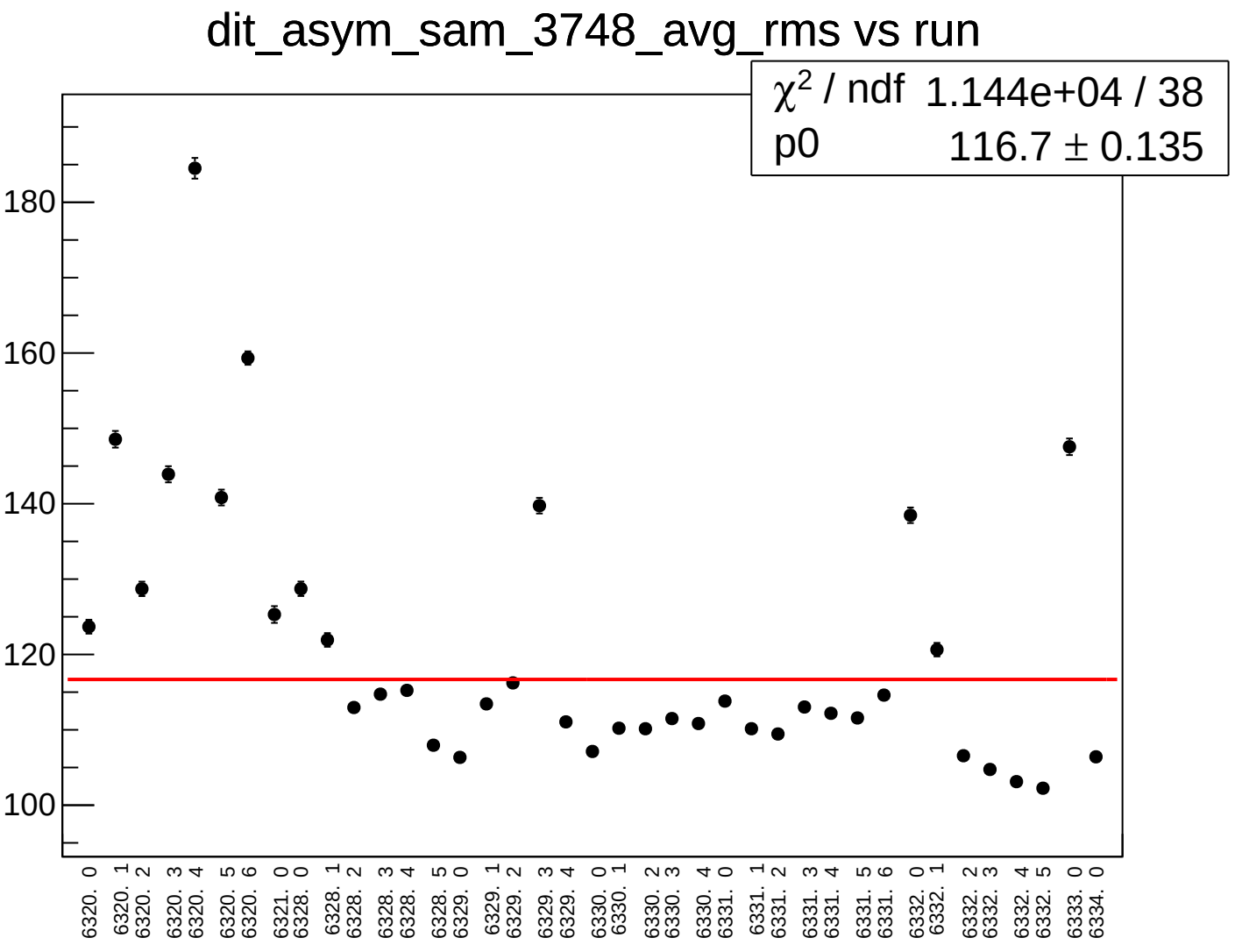

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.76 / 38
p0 −1585 ± 1717
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −63.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

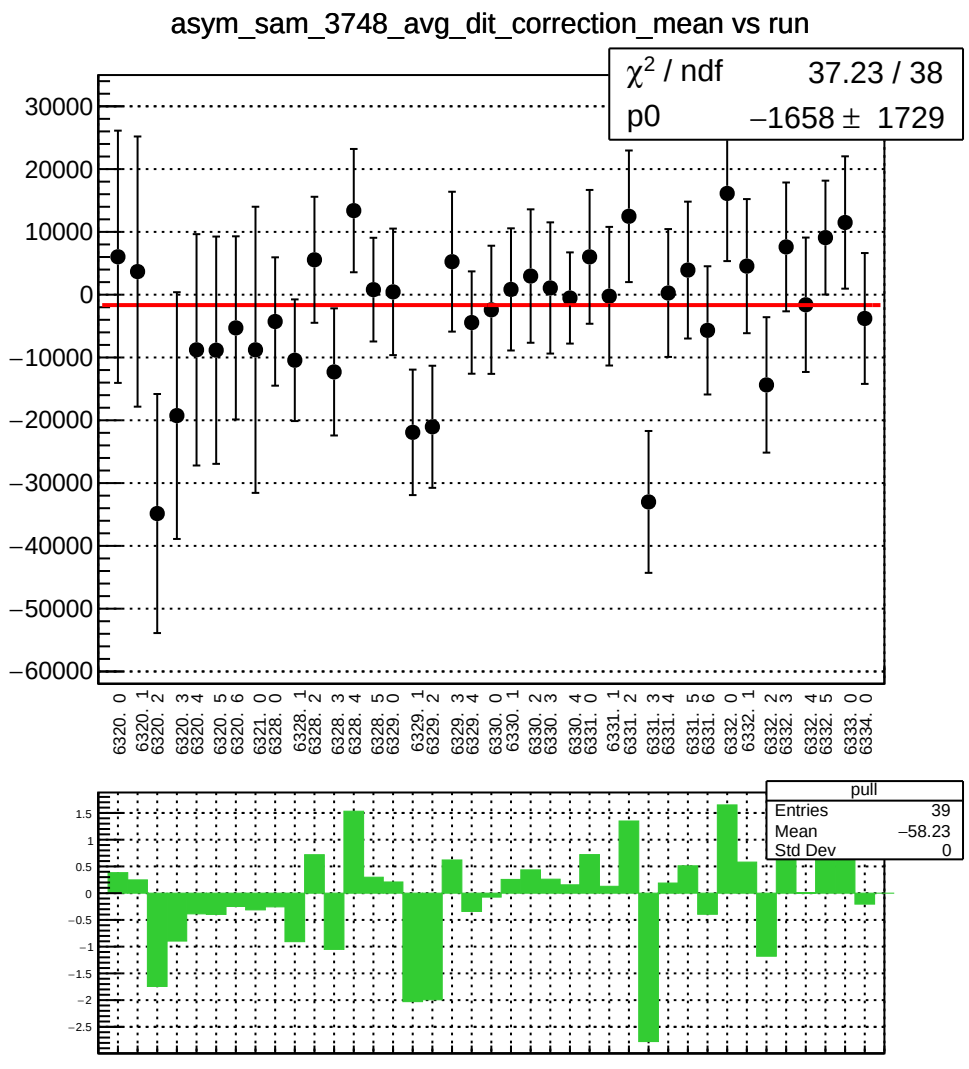

pull1D
Entries 39
Mean −0.04002
Std Dev 0.9831
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

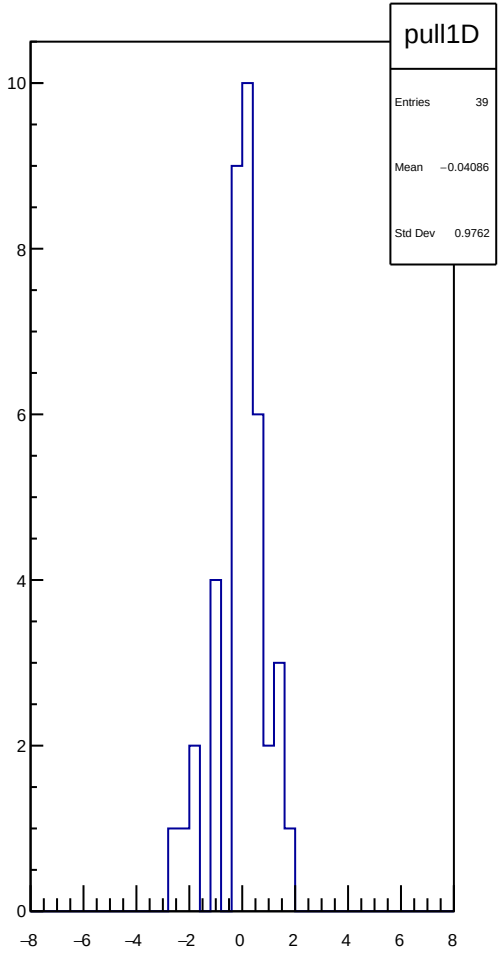

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.292e+04 / 38
p0 1034 ± 1.214
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

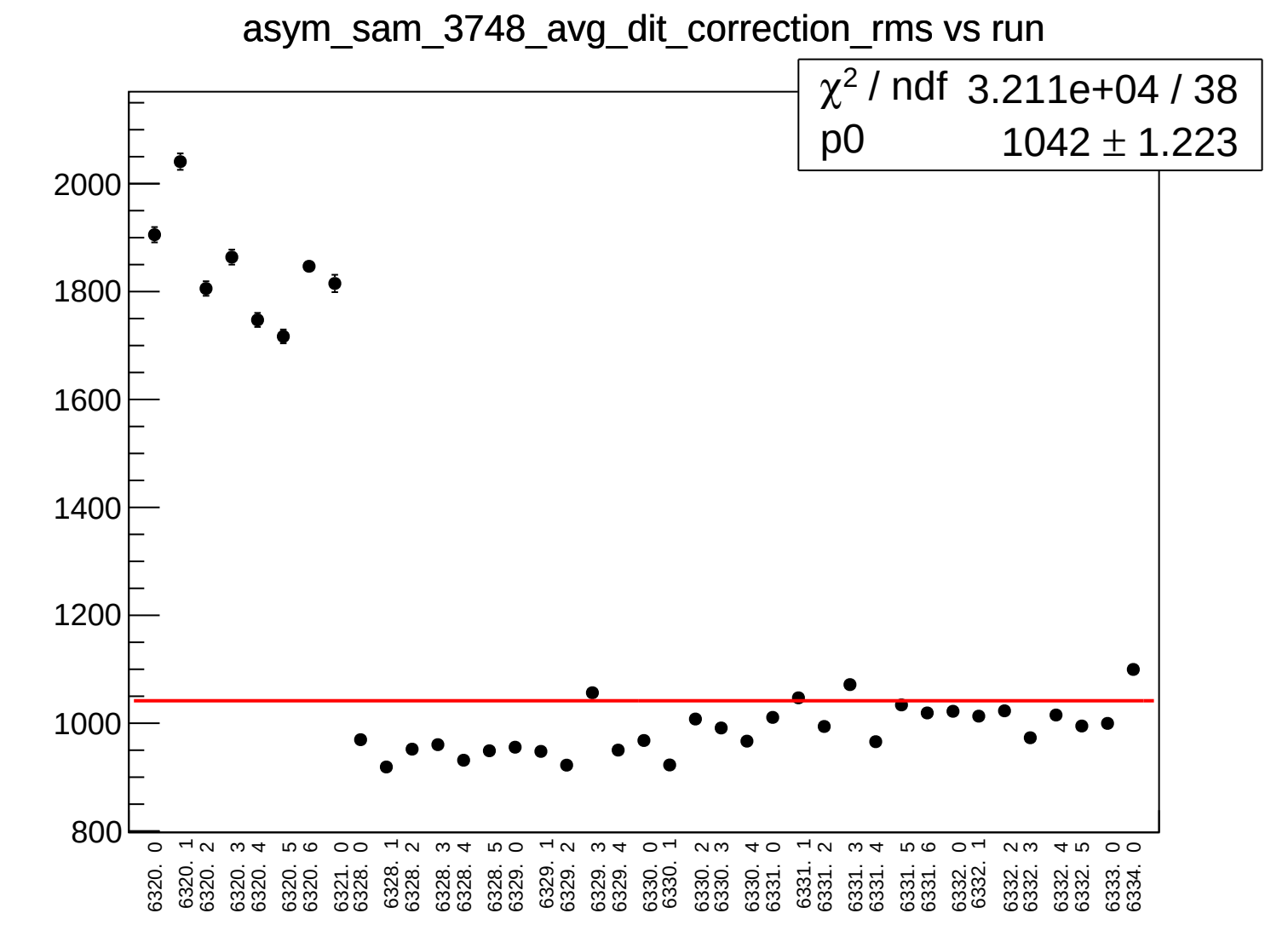

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 35.57 / 38
p0 −131.7 ± 191
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.13
Std Dev 0
3
2
1
0
−1
−2

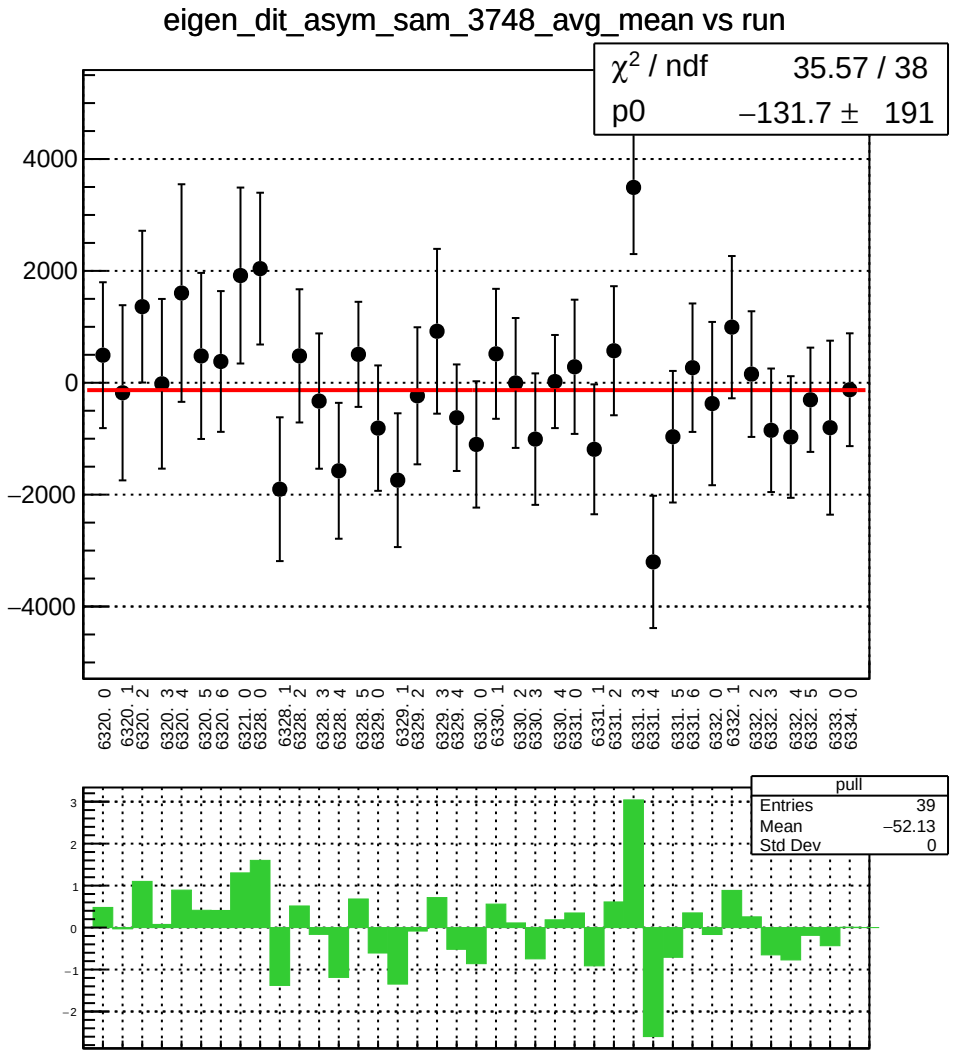

pull1D
Entries 39
Mean 0.03075
Std Dev 0.9546
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

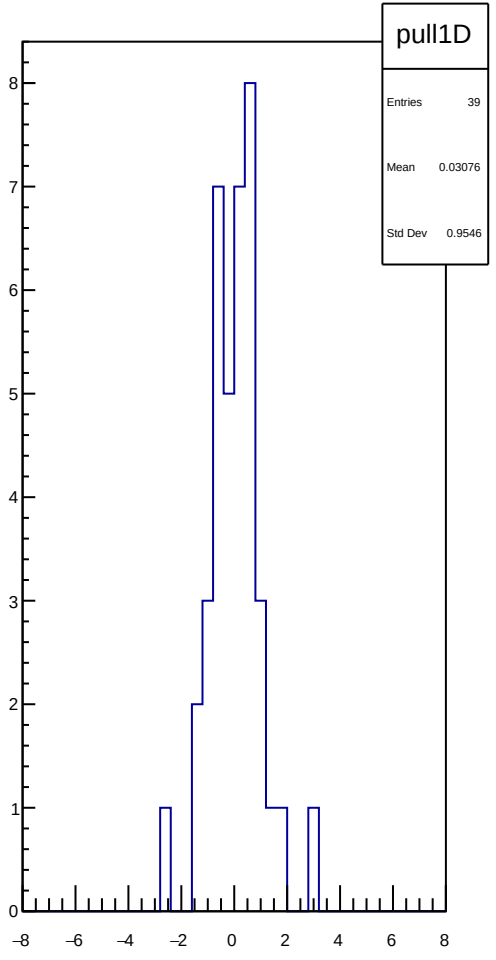

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.144e+04 / 38
p0 116.7 ± 0.135
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

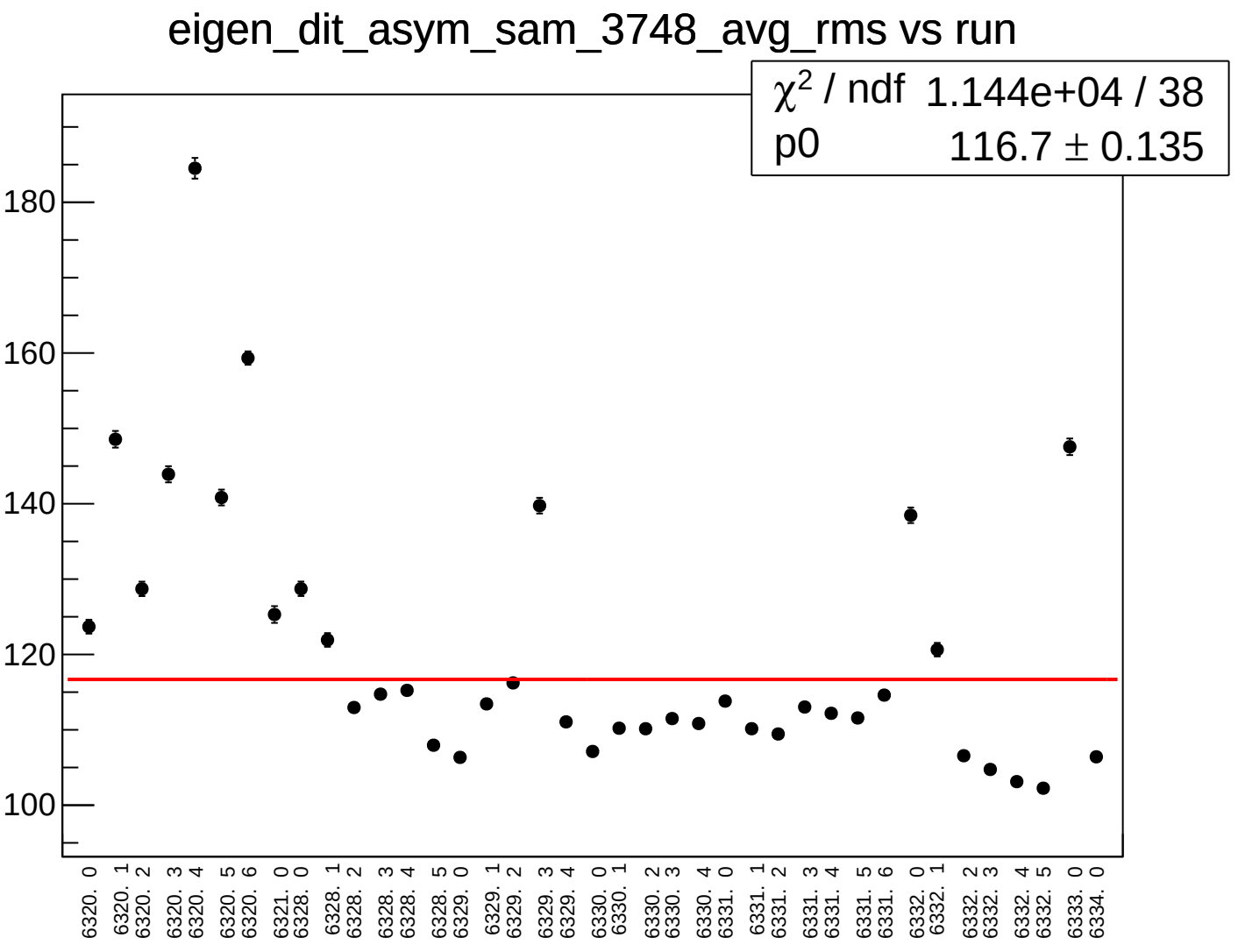

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 37.23 / 38
p0 −1658 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −58.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

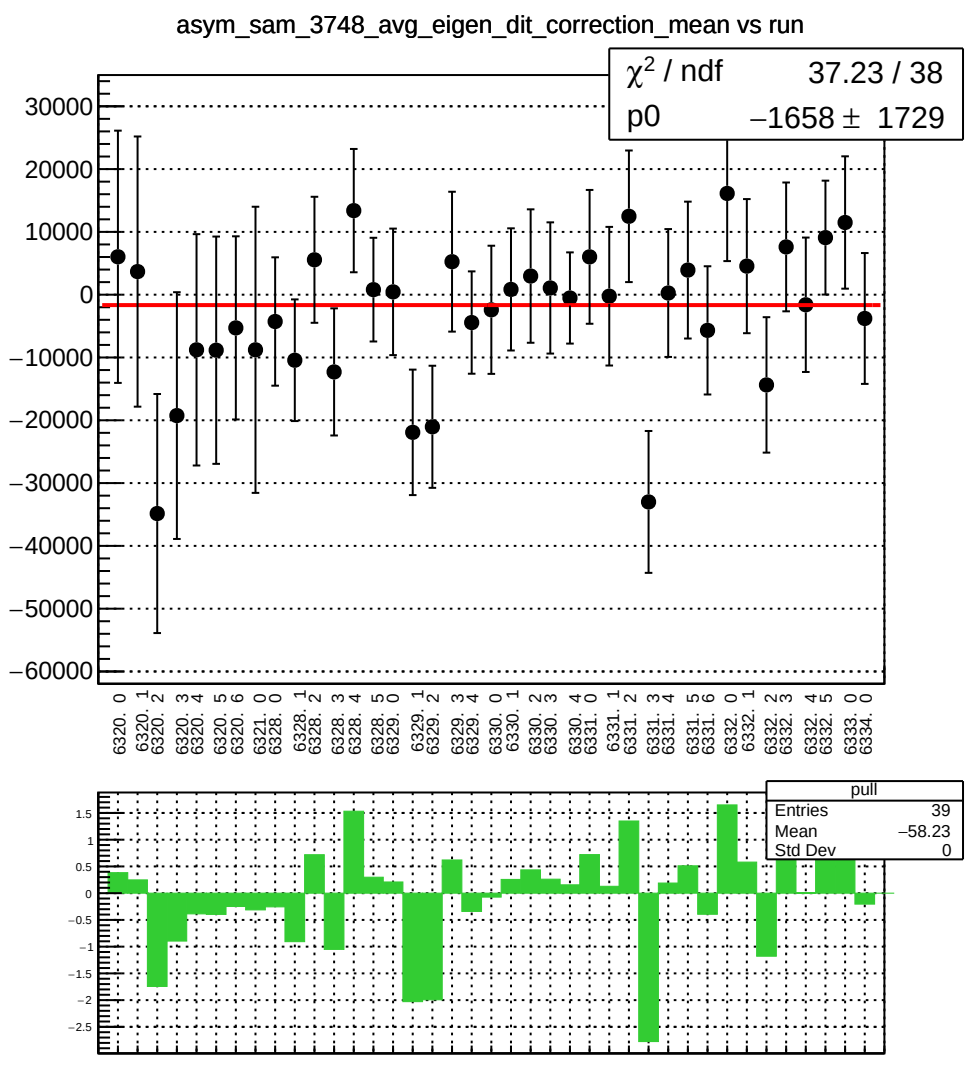

pull1D
Entries 39
Mean −0.04086
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

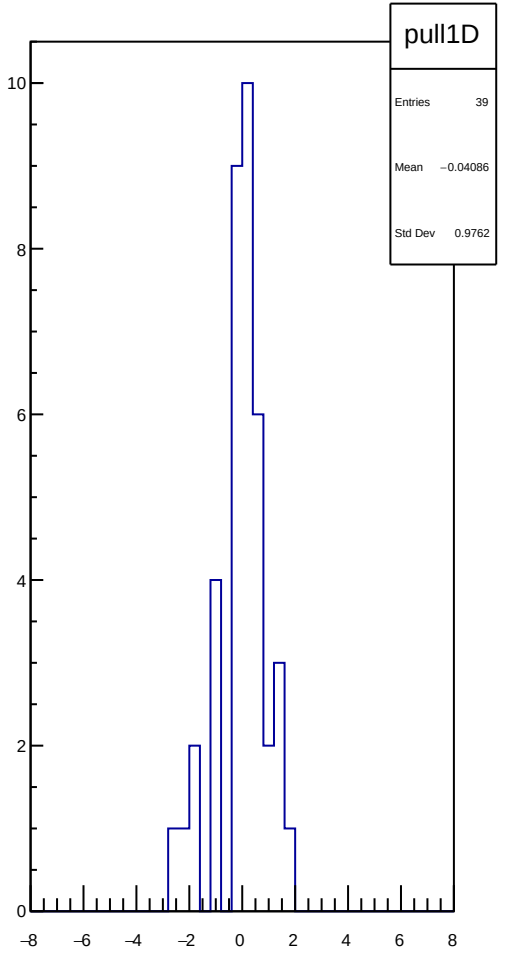

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3.211e+04 / 38
p0 1042 ± 1.223
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

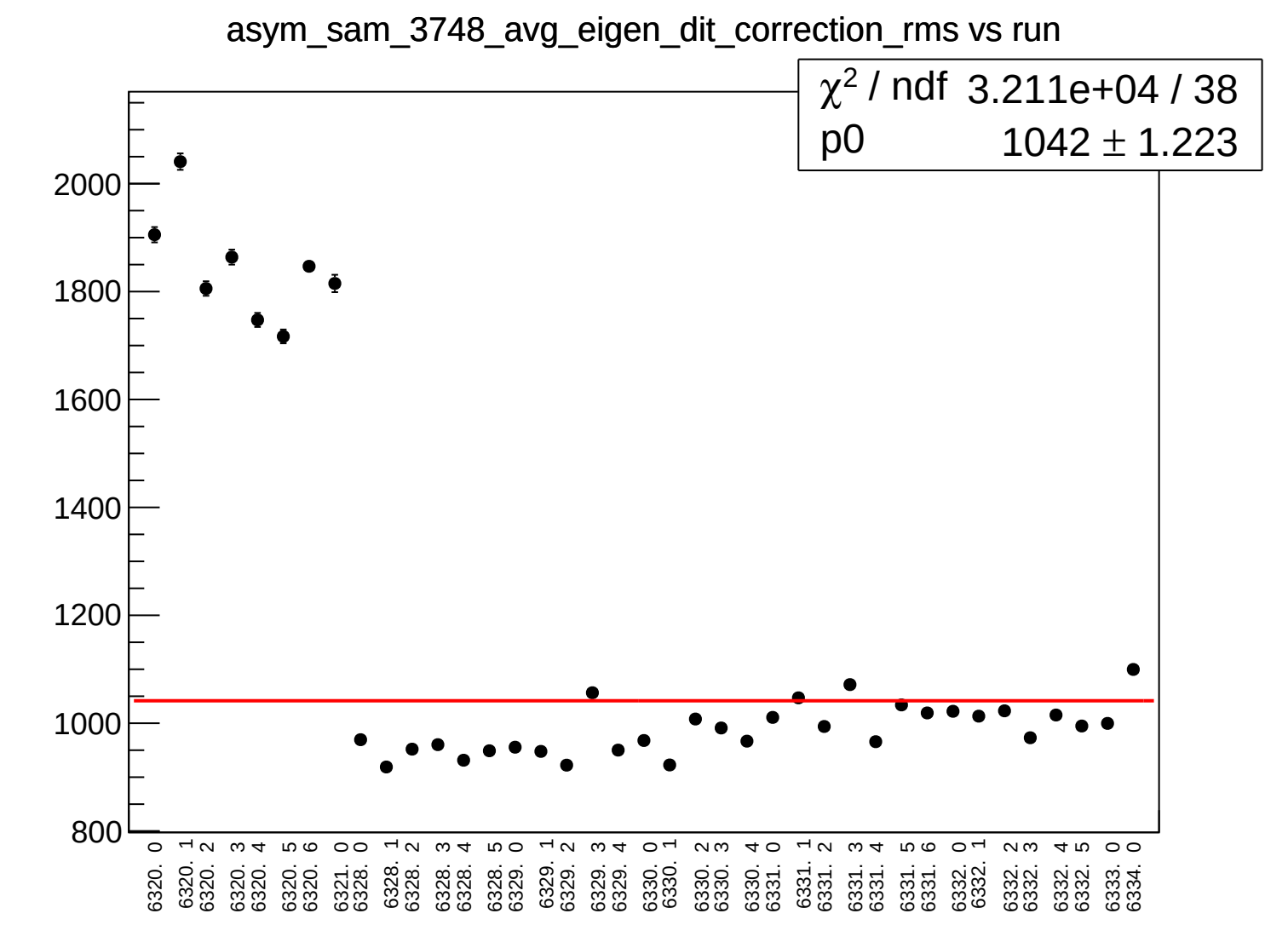

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 35.57 / 38
p0 −131.7 ± 191
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.13
Std Dev 0
3
2
1
0
−1
−2

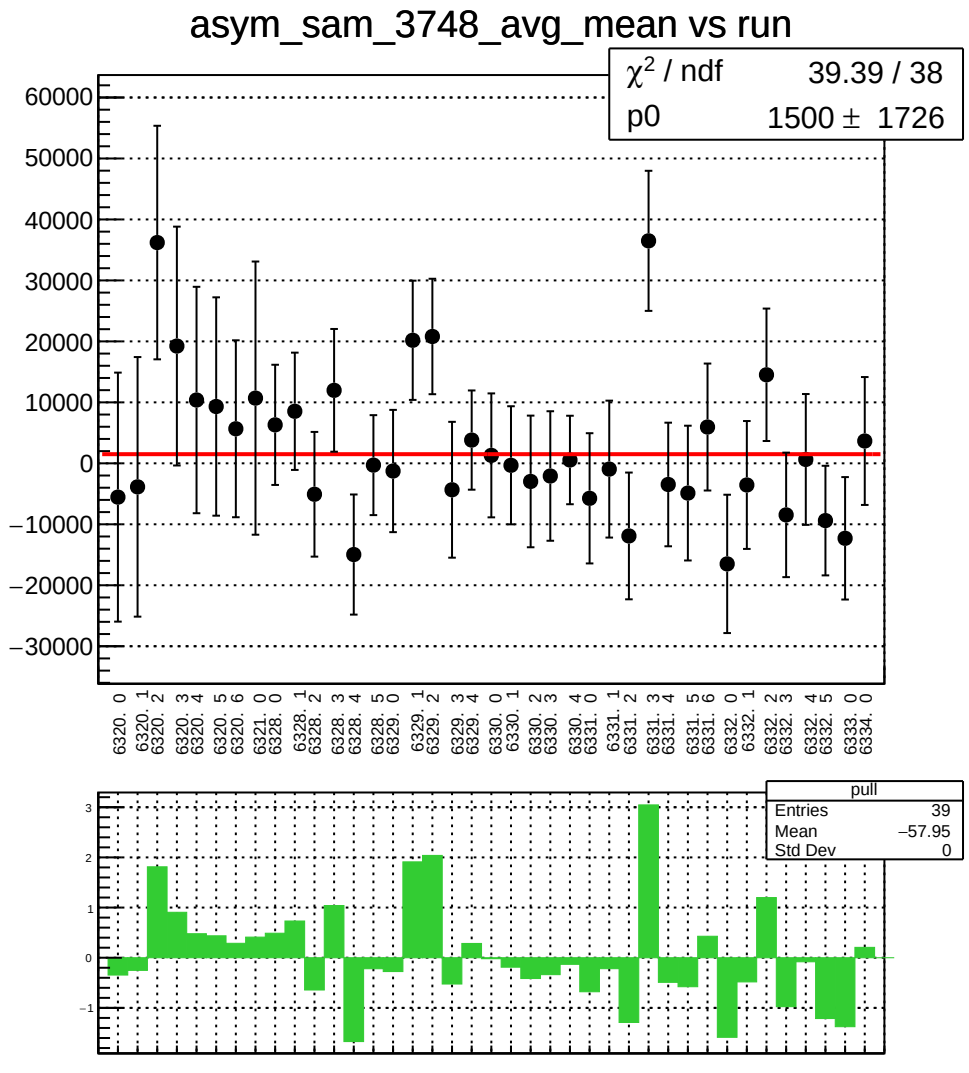

pull1D
Entries 39
Mean 0.03076
Std Dev 0.9546
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

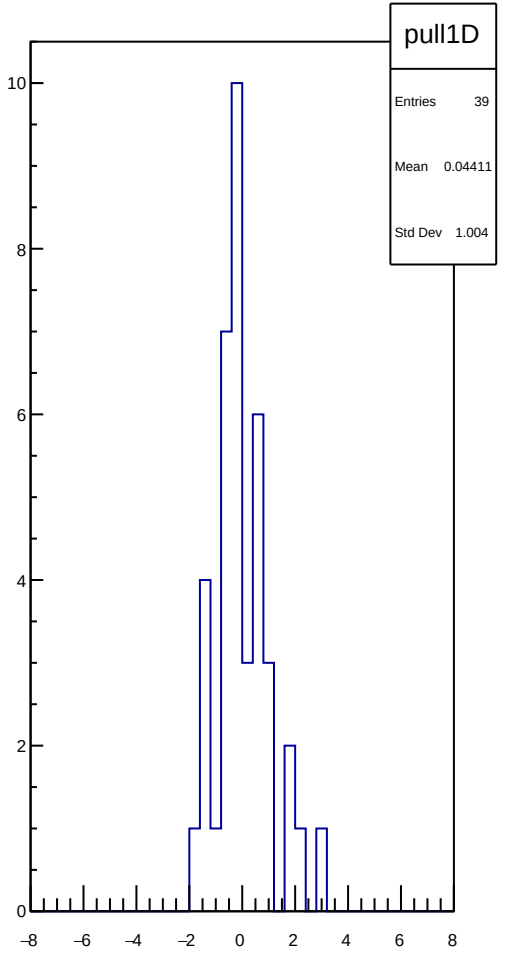

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.144e+04 / 38
p0 116.7 ± 0.135
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

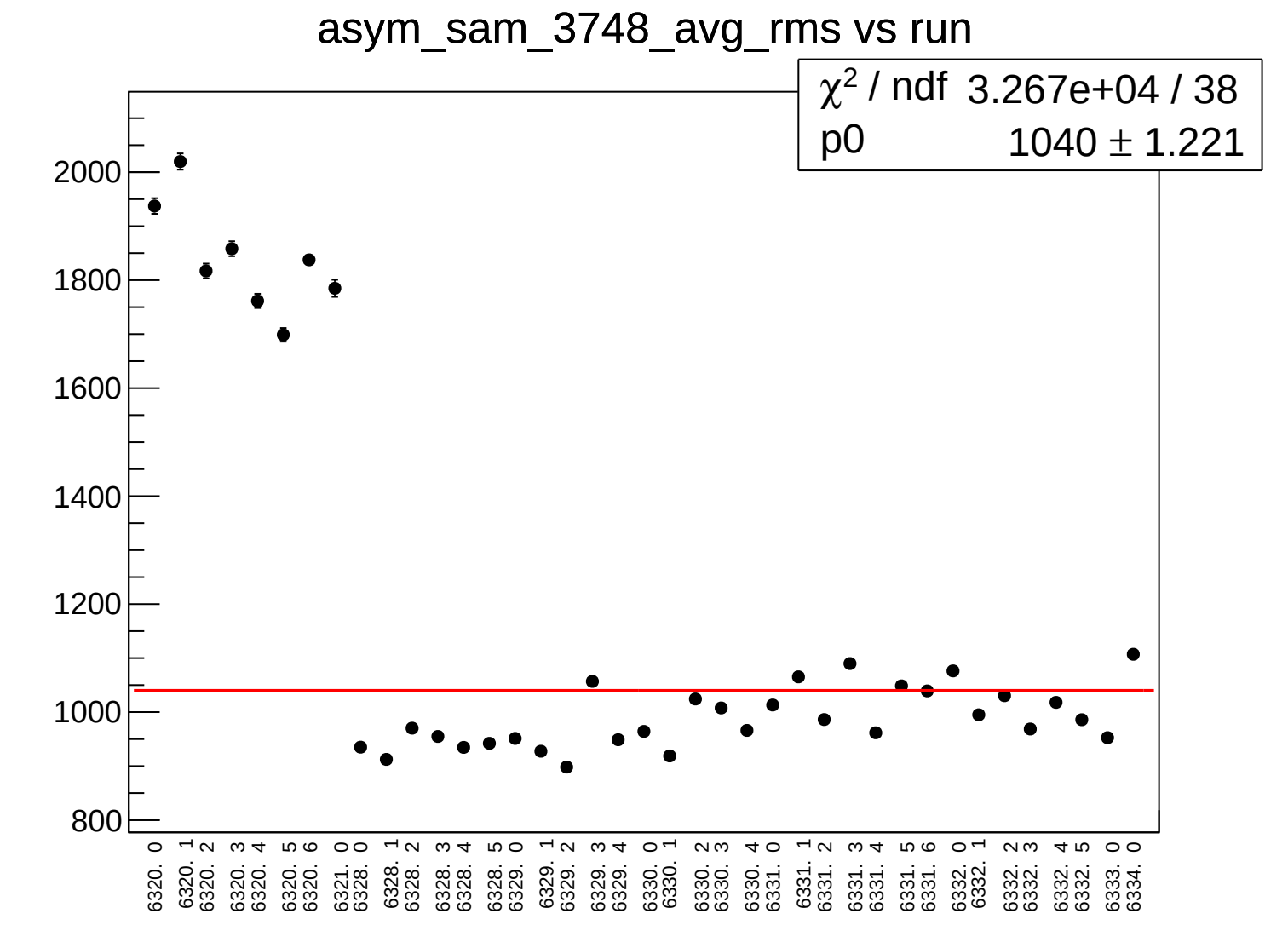

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.23 / 38
p0 −1658 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −58.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

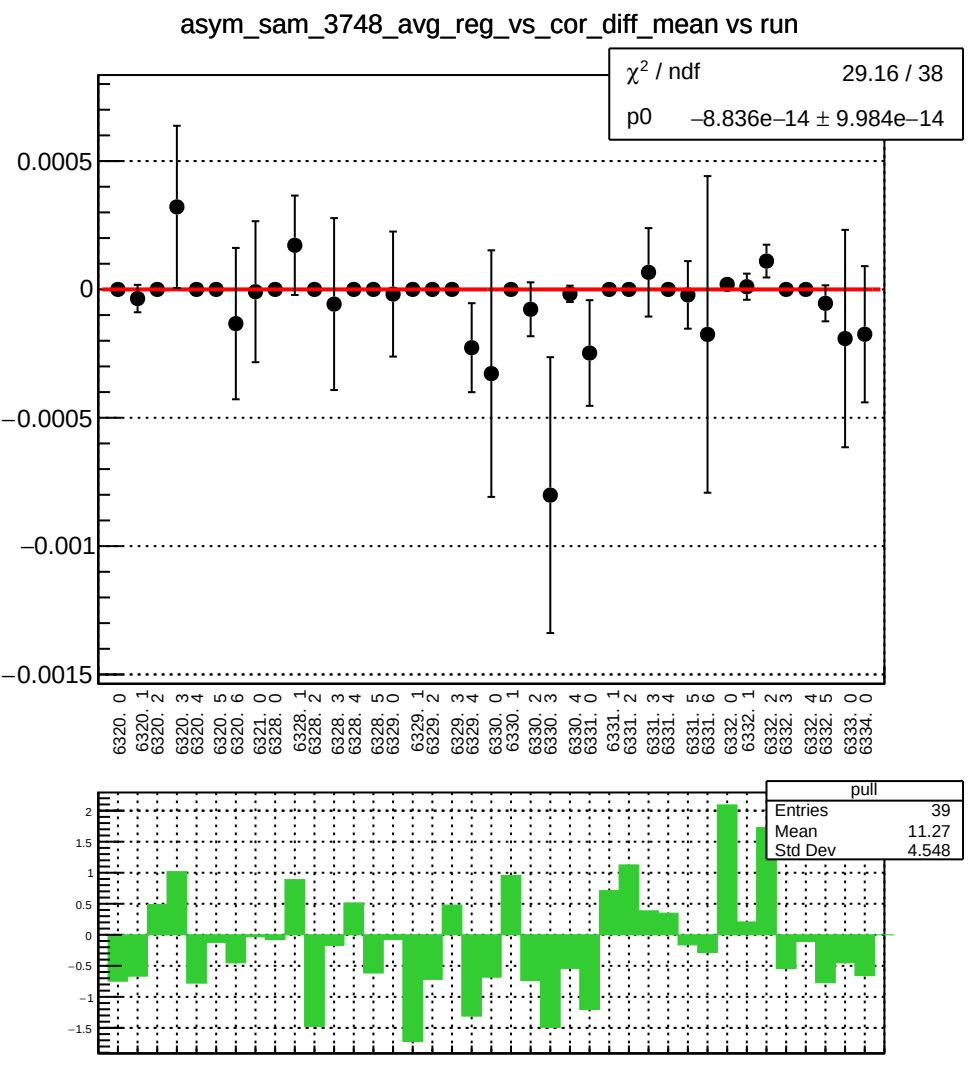

pull1D
Entries 39
Mean −0.04086
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

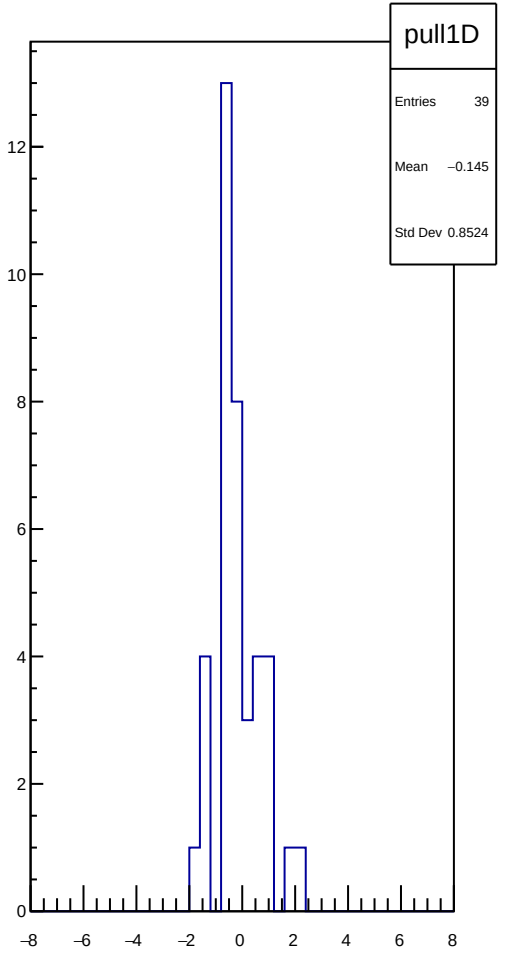

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.211e+04 / 38
p0 1042 ± 1.223
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

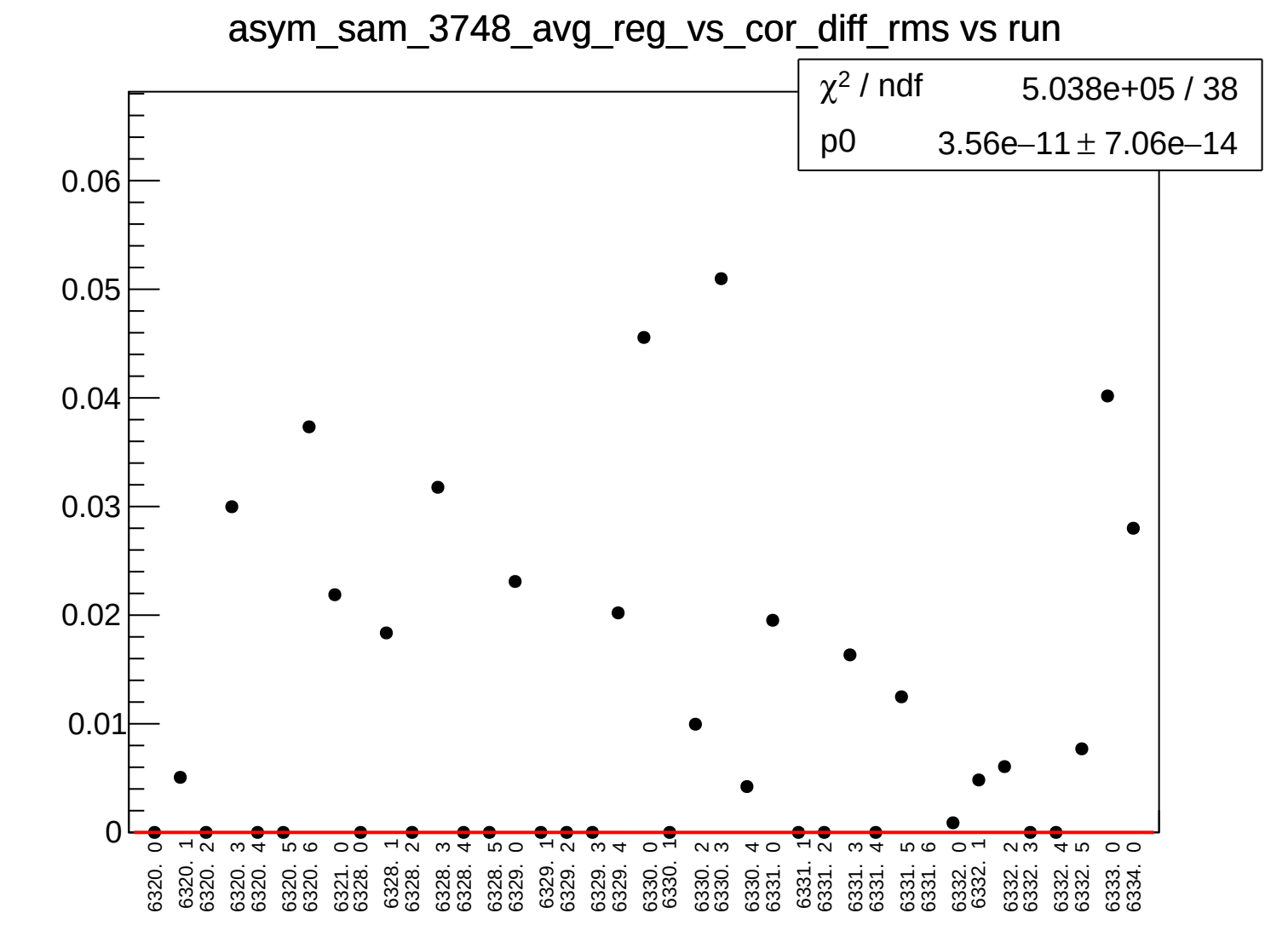

asym_sam_3748_avg_mean vs run
χ² / ndf 39.39 / 38
p0 1500 ± 1726
60000
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −57.95
Std Dev 0
3
2
1
0
−1

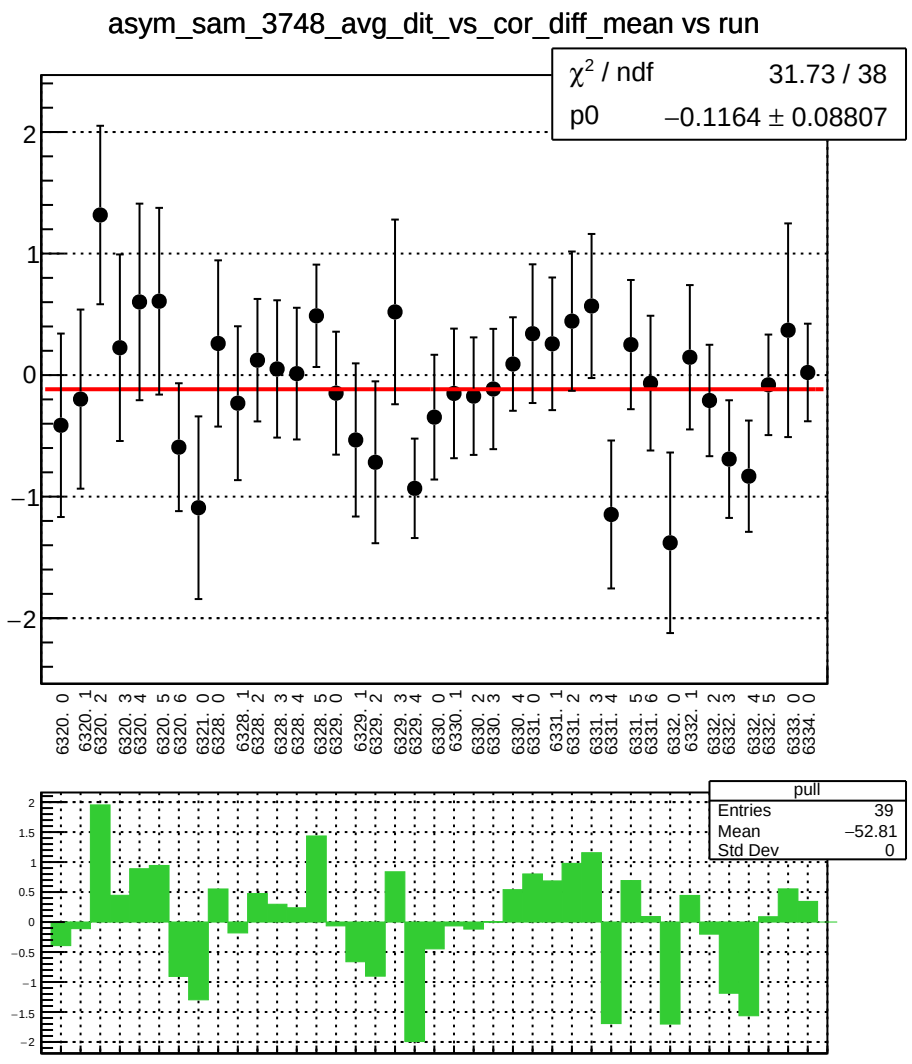

pull1D
Entries 39
Mean 0.04411
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

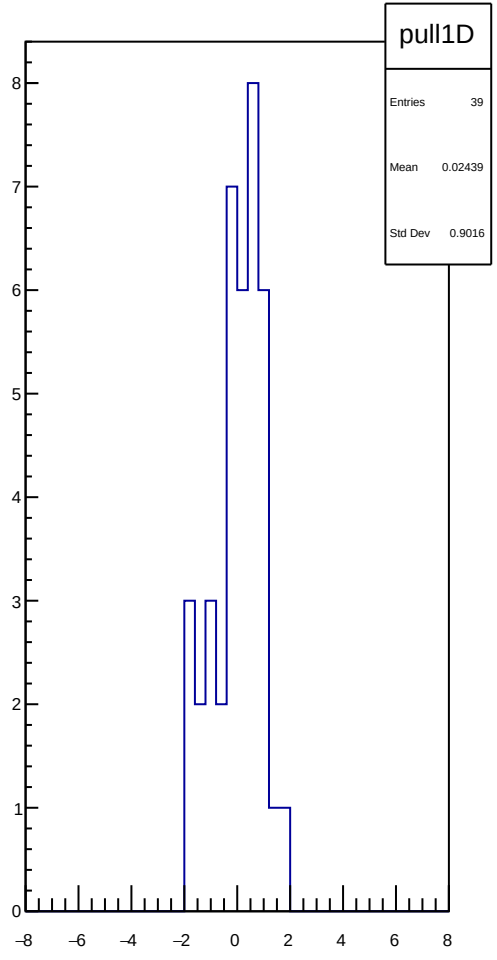

asym_sam_3748_avg_rms vs run
χ² / ndf 3.267e+04 / 38
p0 1040 ± 1.221
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

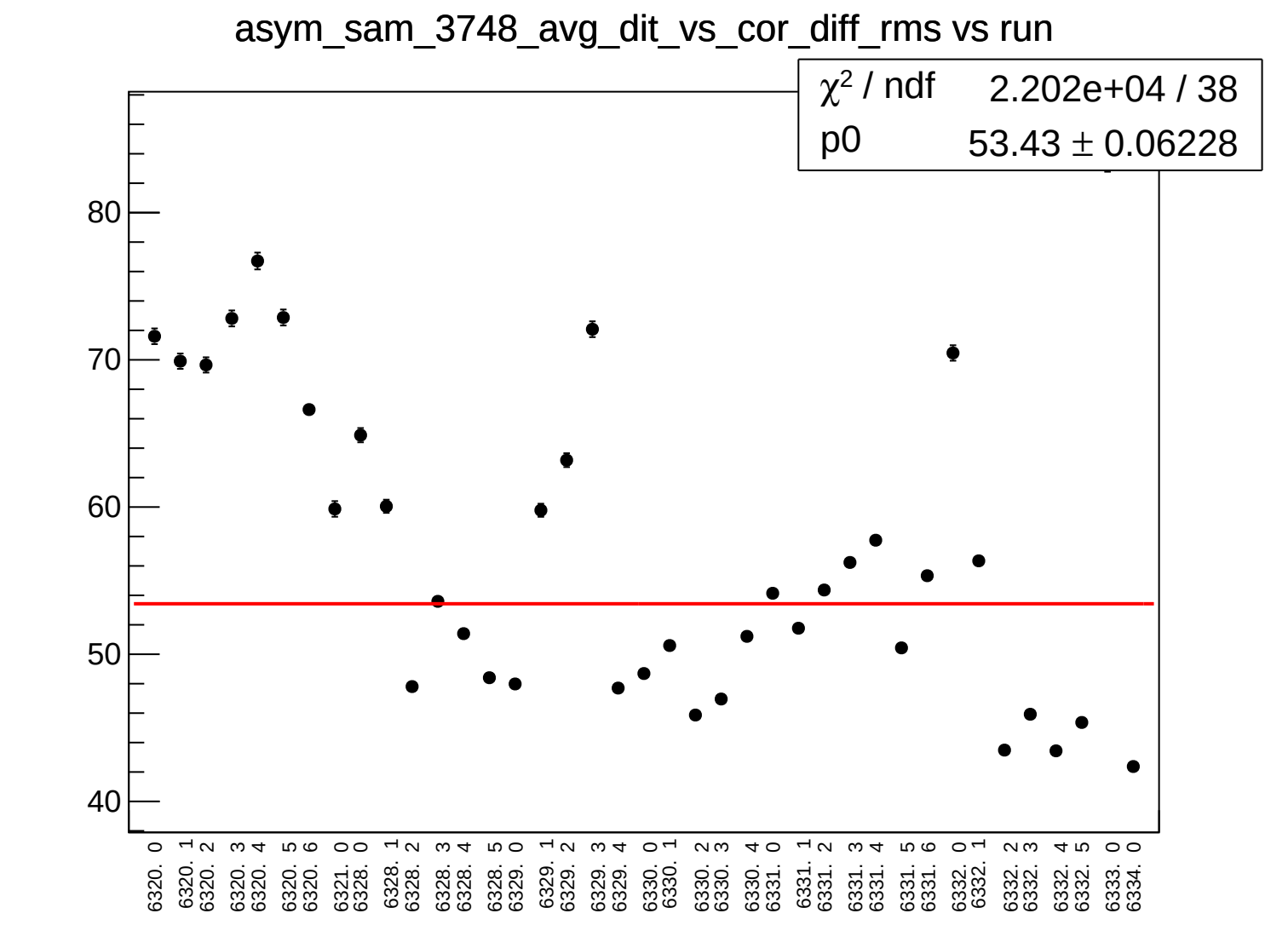

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.16 / 38
p0 −8.836e−14 ± 9.984e−14
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.27
Std Dev 4.548
2
1.5
1
0.5
0
−0.5
−1
−1.5

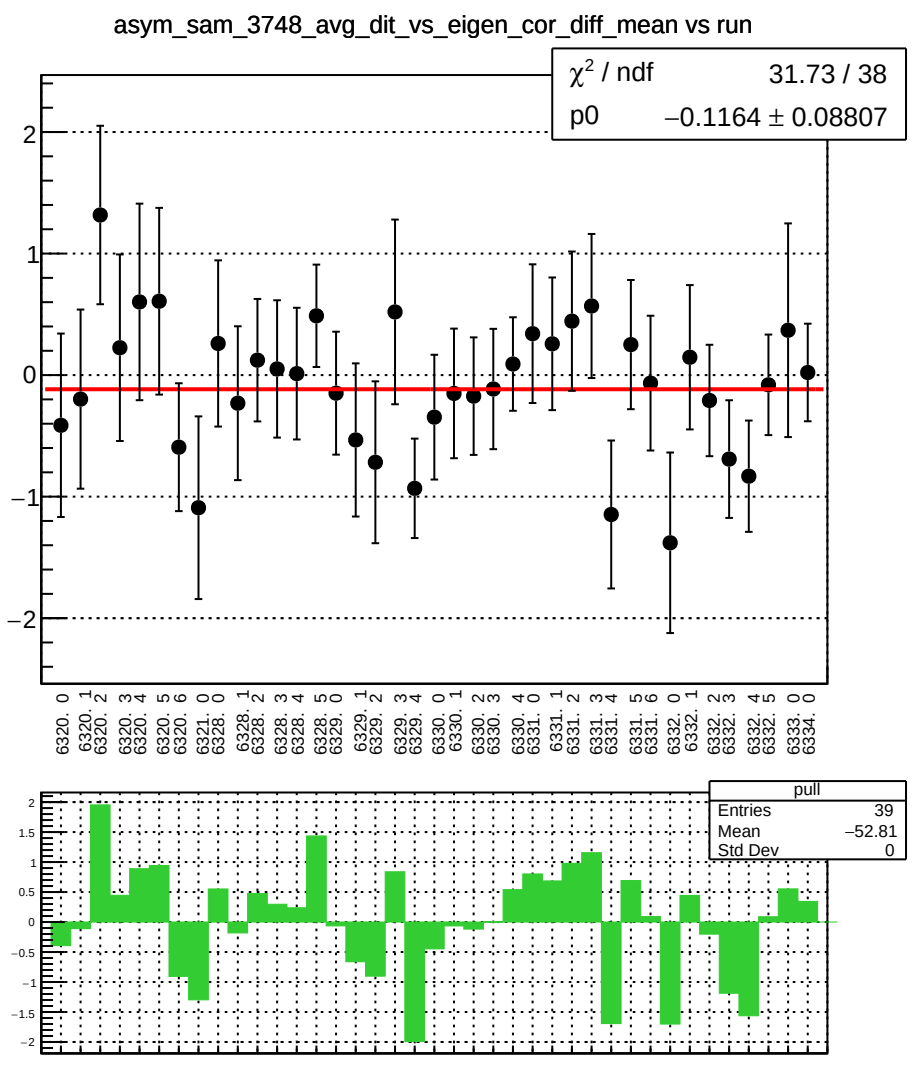

pull1D
Entries 39
Mean −0.145
Std Dev 0.8524
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

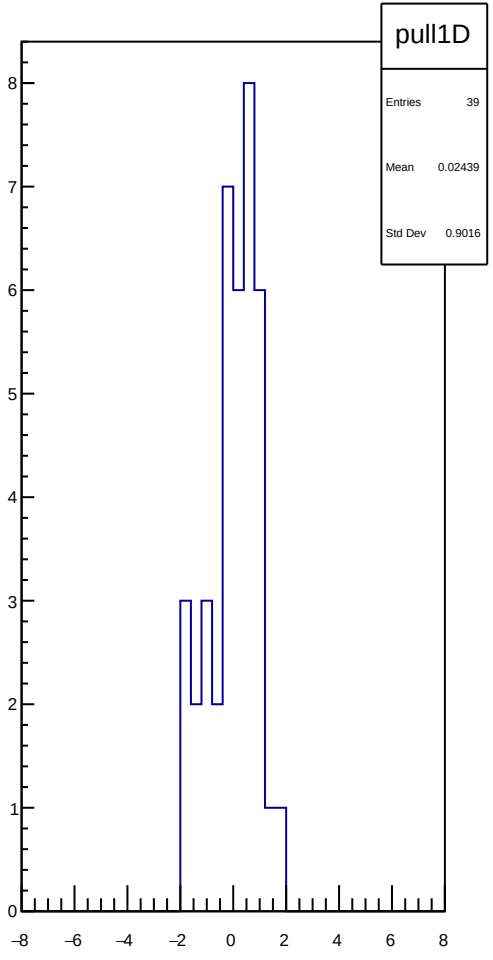

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.038e+05 / 38
p0 3.56e−11 ± 7.06e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

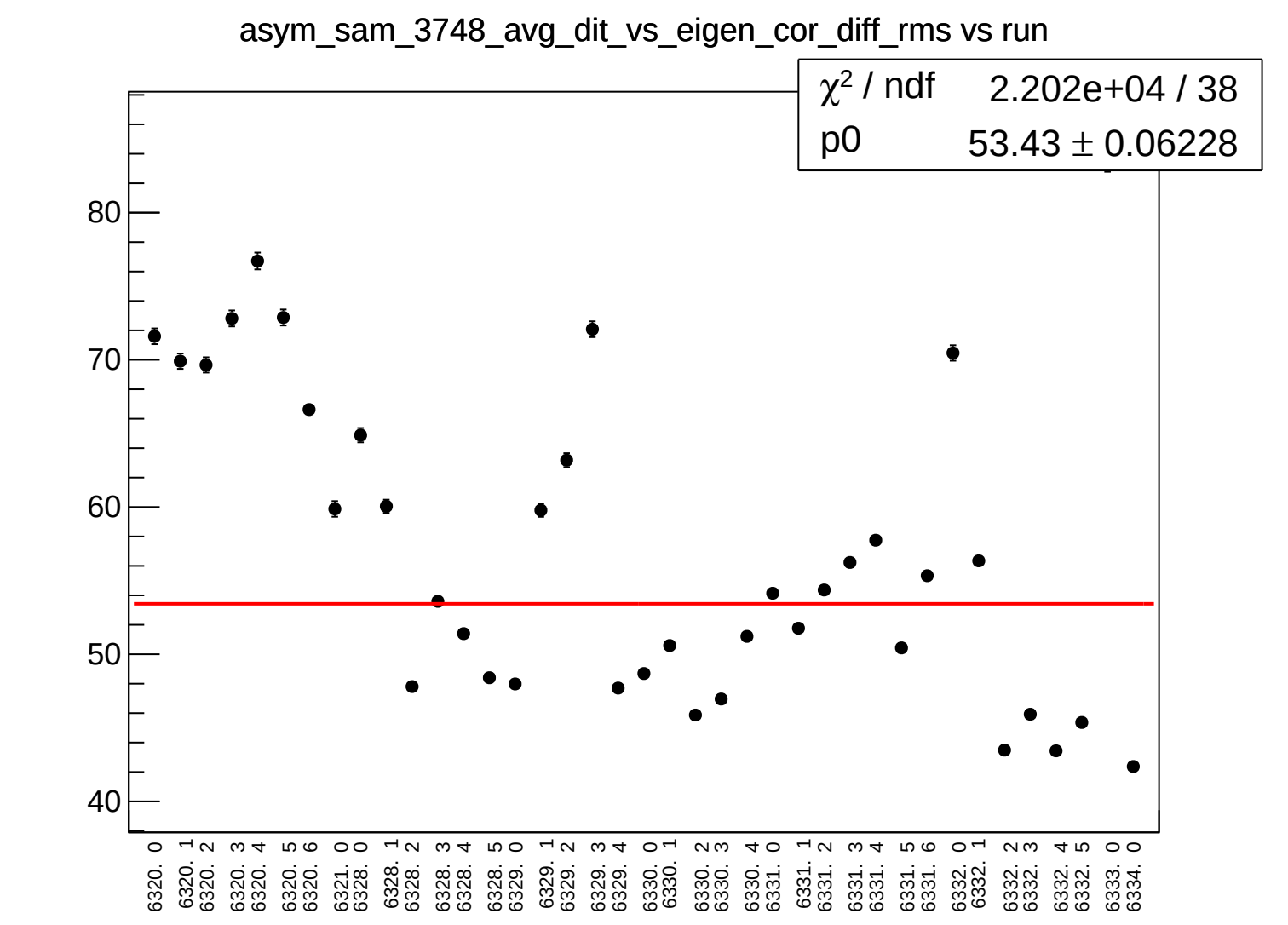

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.73 / 38
p0 −0.1164 ± 0.08807
pull
Entries 39
Mean −52.81
Std Dev 0

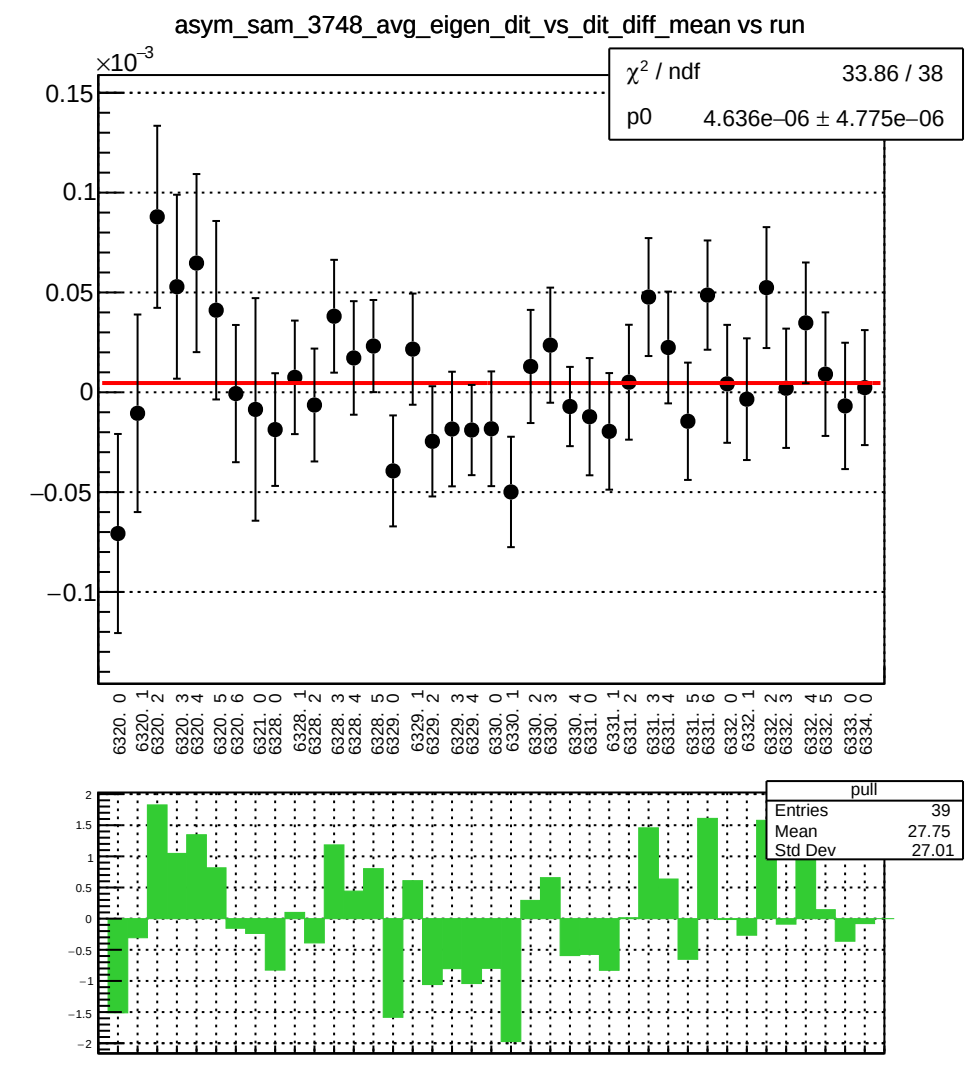

pull1D
Entries 39
Mean 0.02439
Std Dev 0.9016

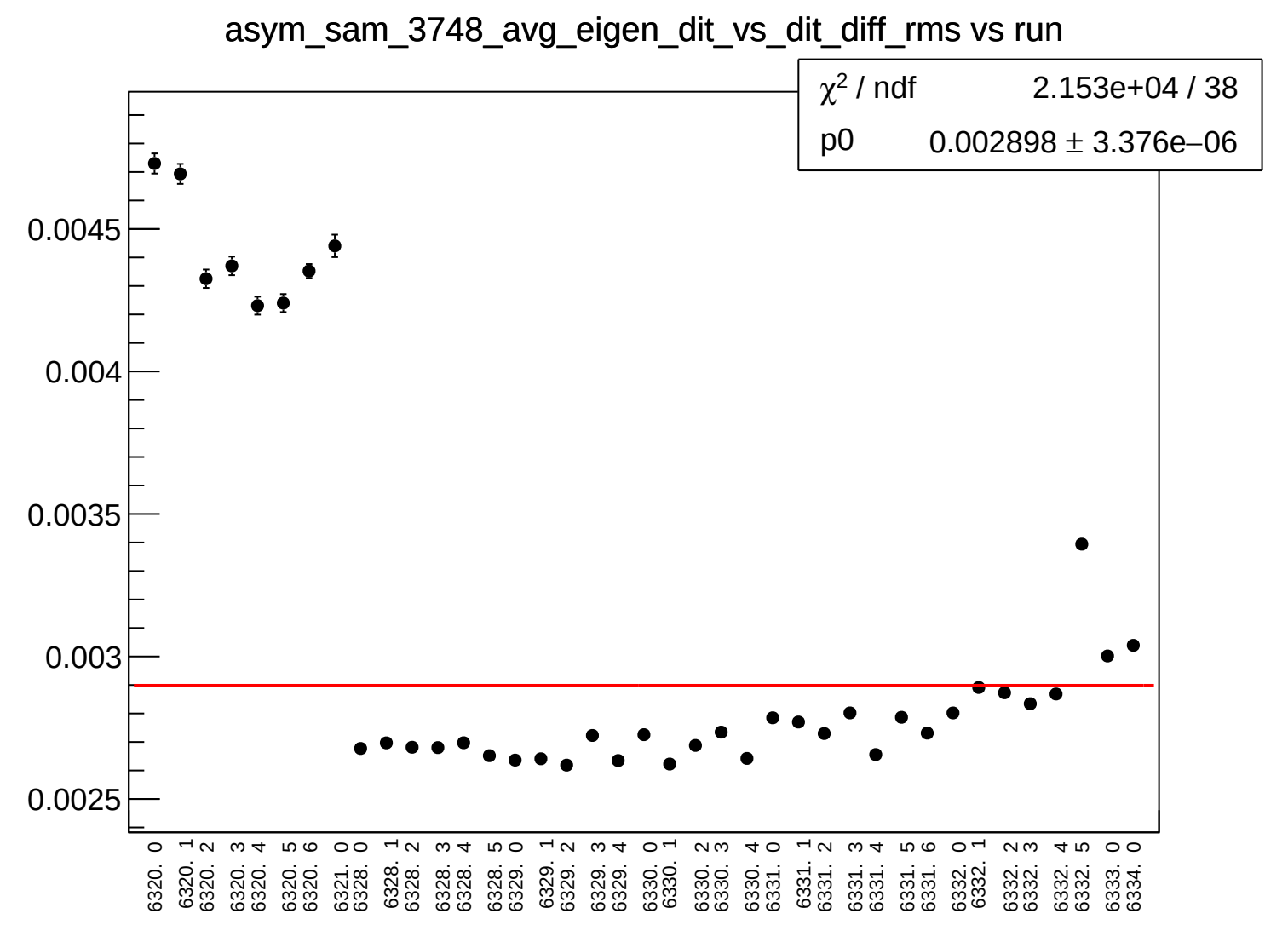

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 38
p0 53.43 ± 0.06228
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

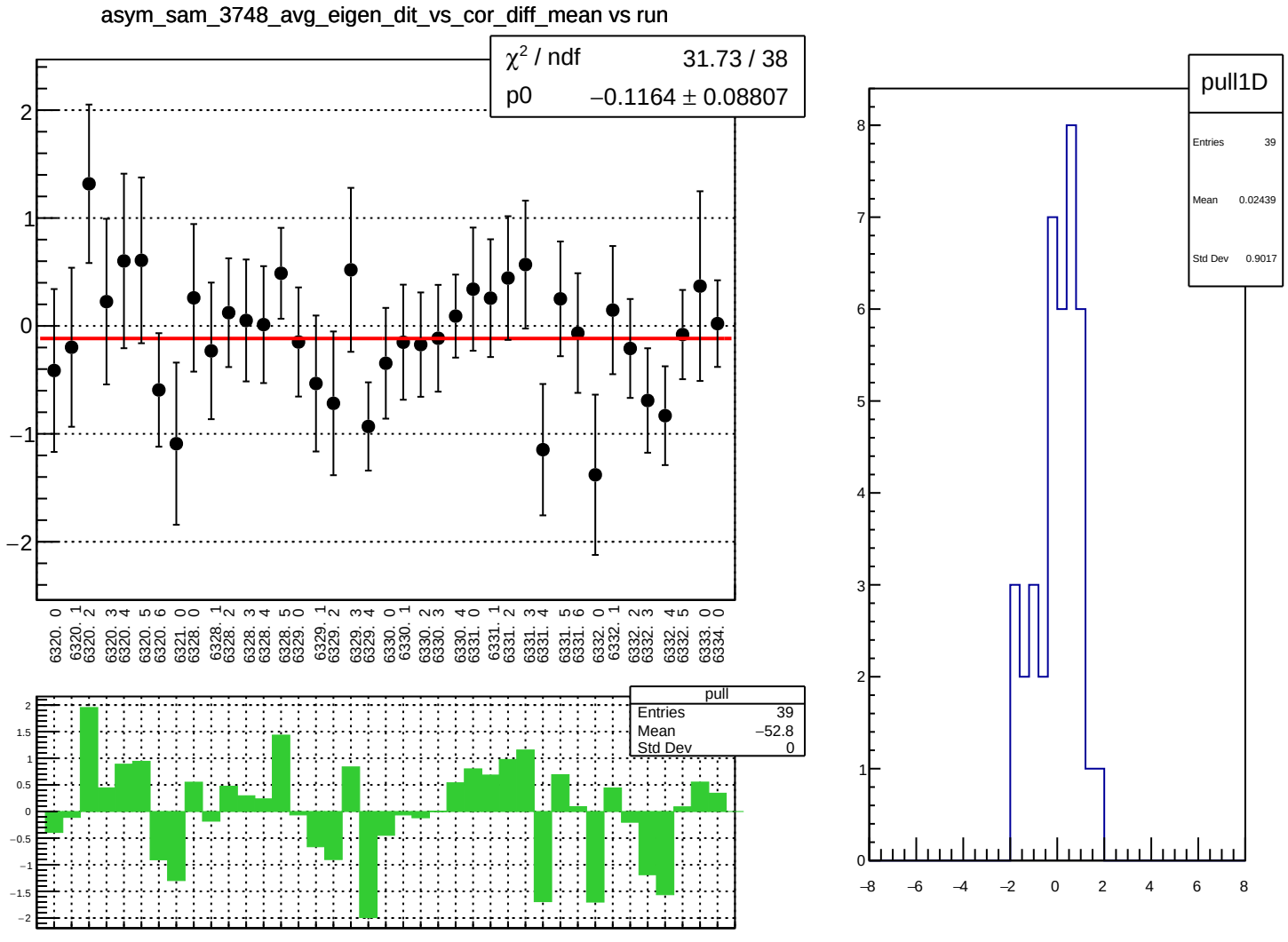

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.73 / 38
p0 −0.1164 ± 0.08807
pull
Entries 39
Mean −52.81
Std Dev 0

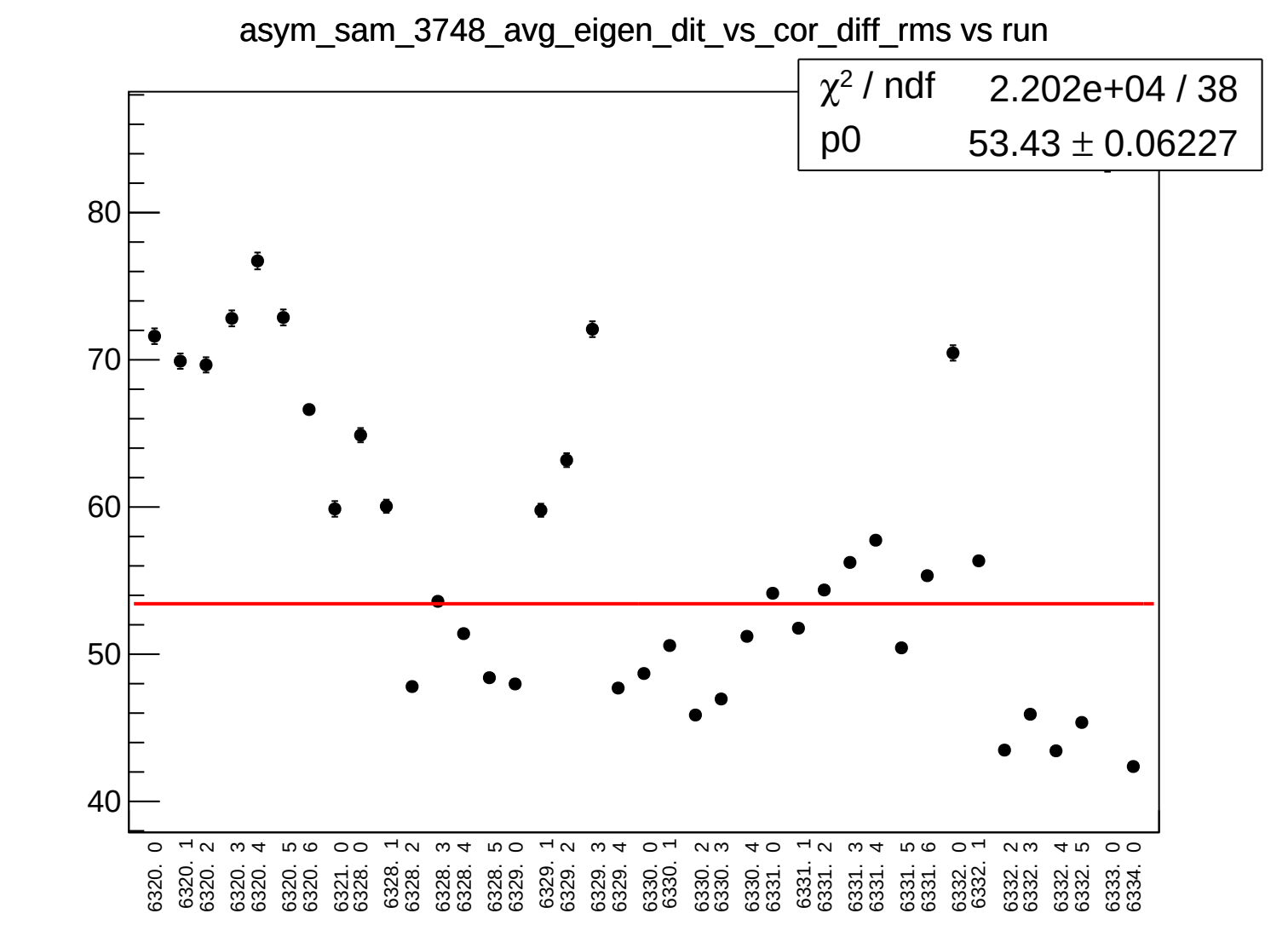

pull1D
Entries 39
Mean 0.02439
Std Dev 0.9016

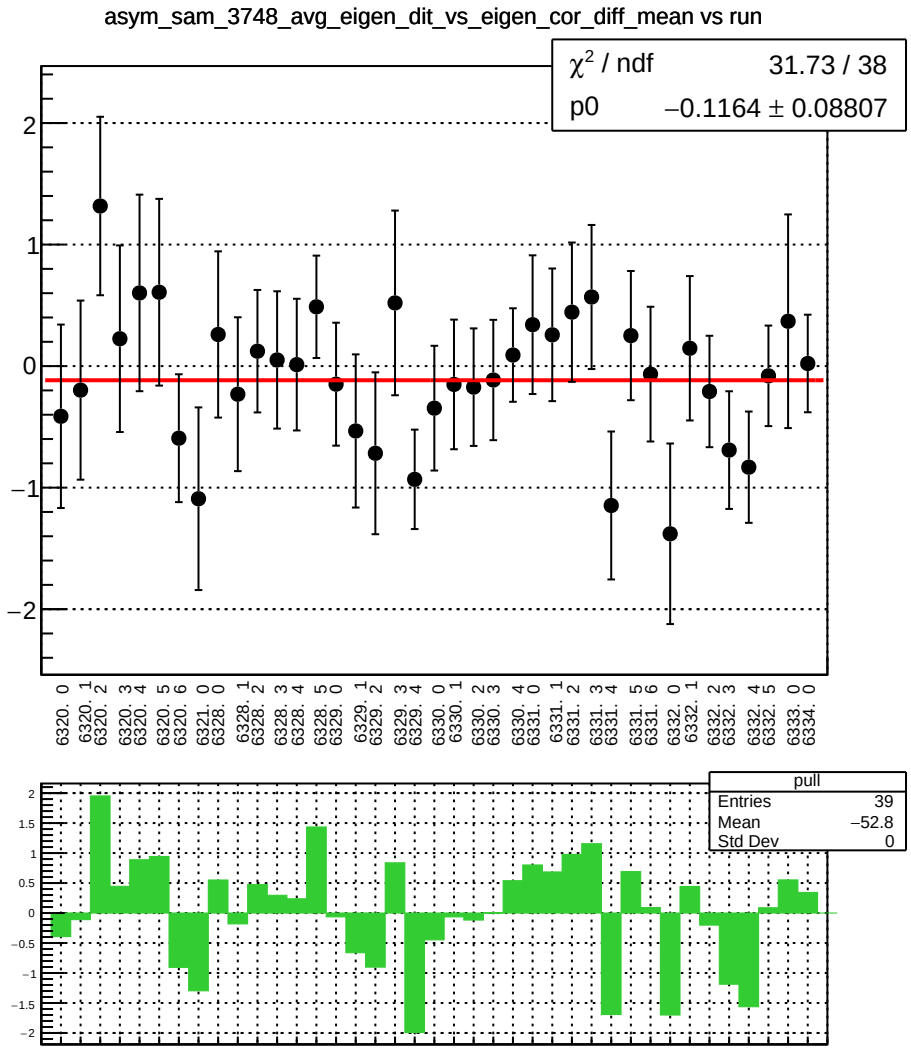

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 38
p0 53.43 ± 0.06228
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

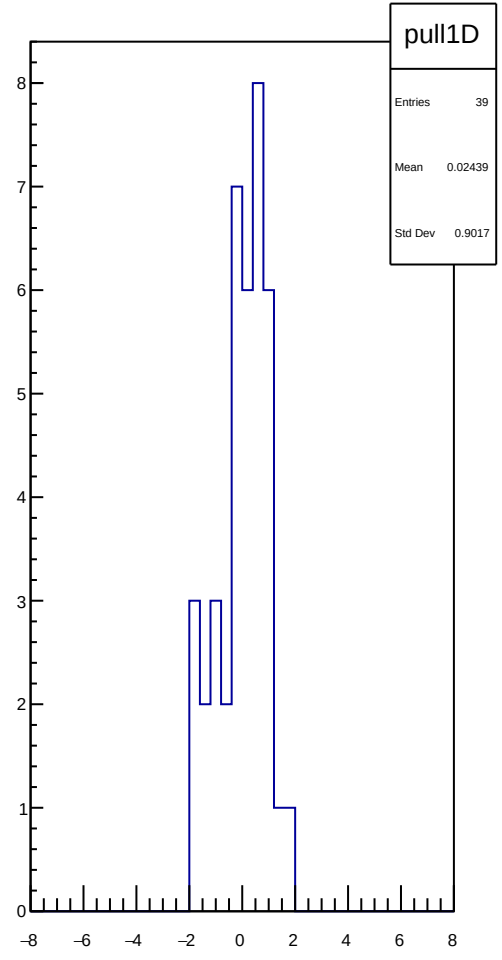

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.86 / 38
p0 4.636e−06 ± 4.775e−06
0.15
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.75
Std Dev 27.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03648
Std Dev 0.9311
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

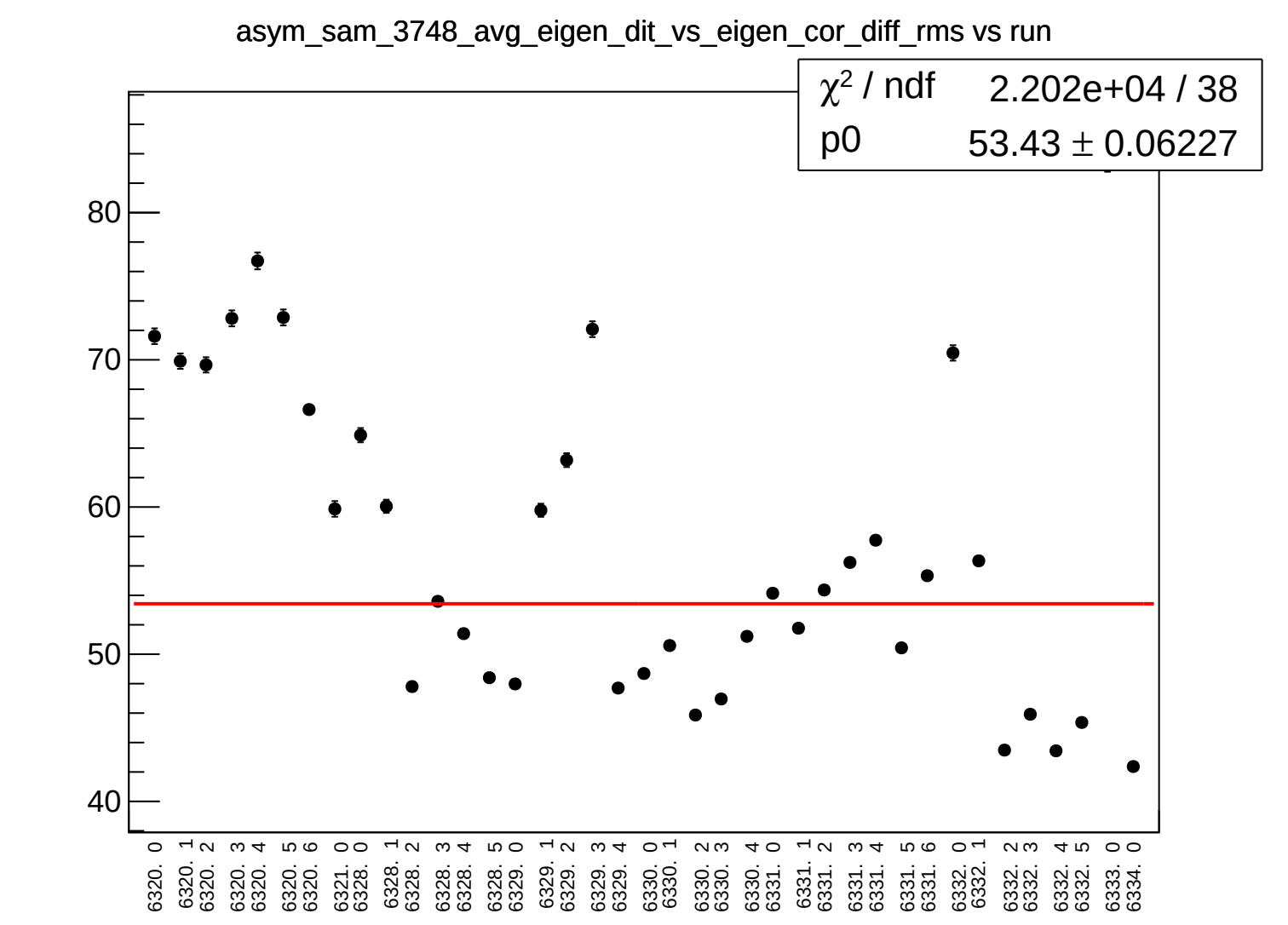

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 2.153e+04 / 38
p0 0.002898 ± 3.376e−06
0.0045
0.004
0.0035
0.003
0.0025
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

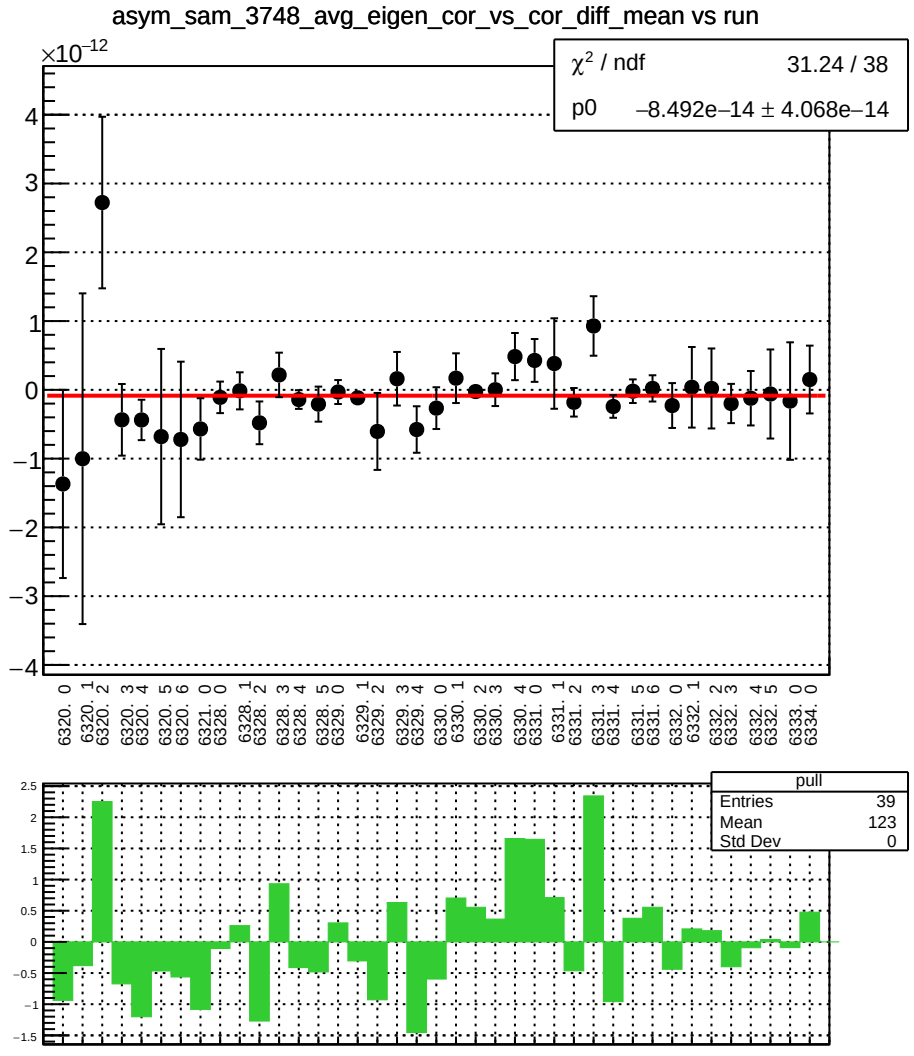

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.73 / 38
p0 −0.1164 ± 0.08807
pull
Entries 39
Mean −52.8
Std Dev 0
pull1D
Entries 39
Mean 0.02439
Std Dev 0.9017

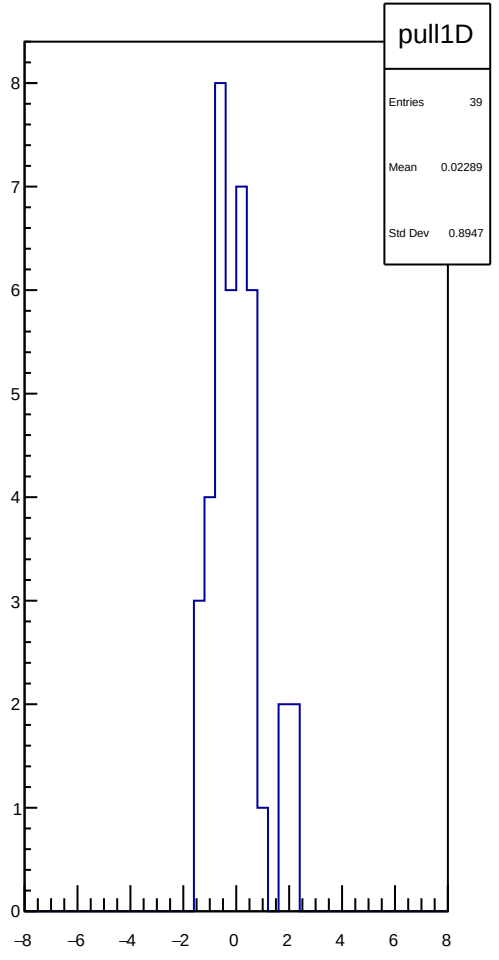

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 38
p0 53.43 ± 0.06227
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

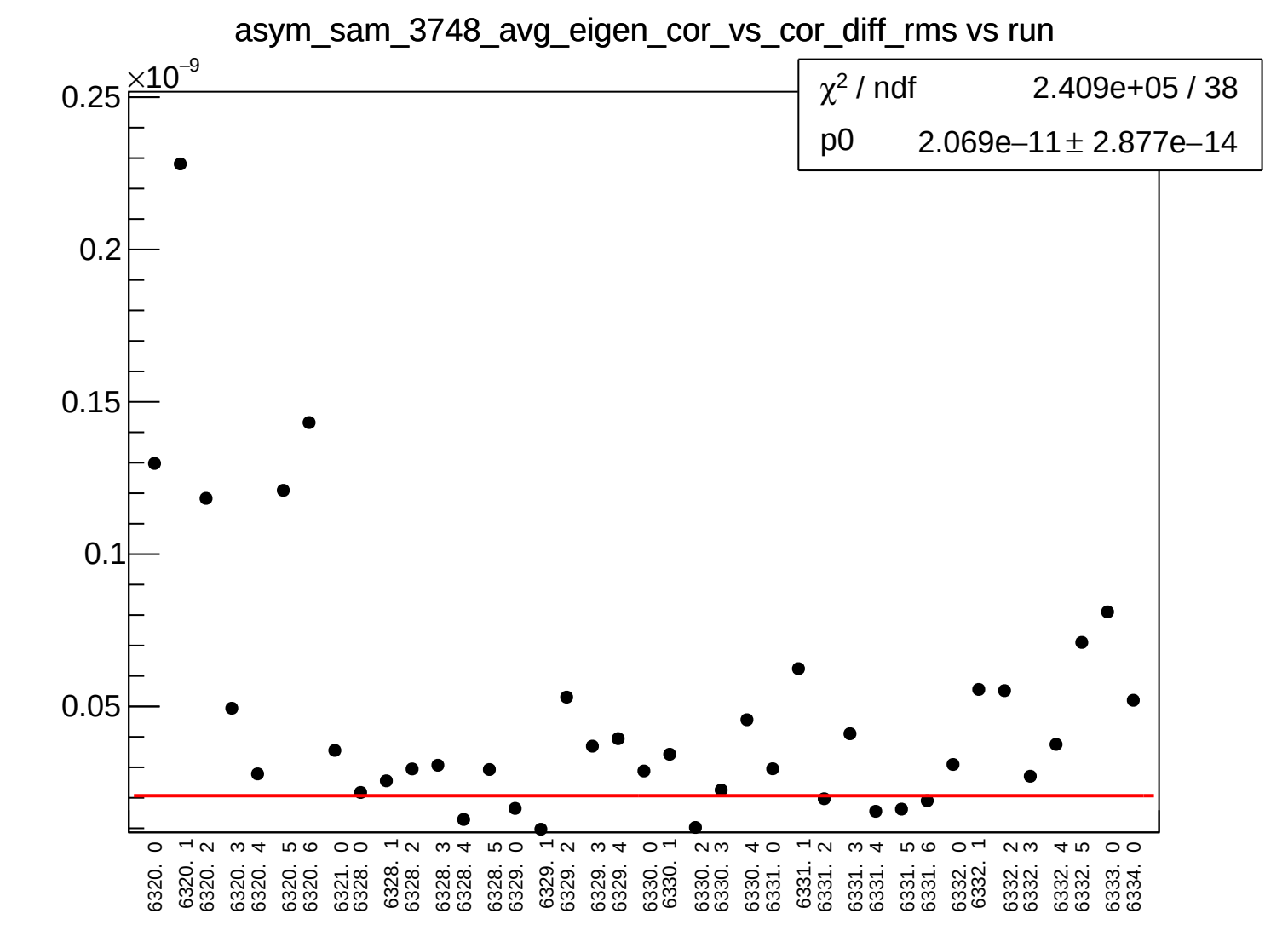

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.73 / 38
p0 −0.1164 ± 0.08807
pull
Entries 39
Mean −52.8
Std Dev 0

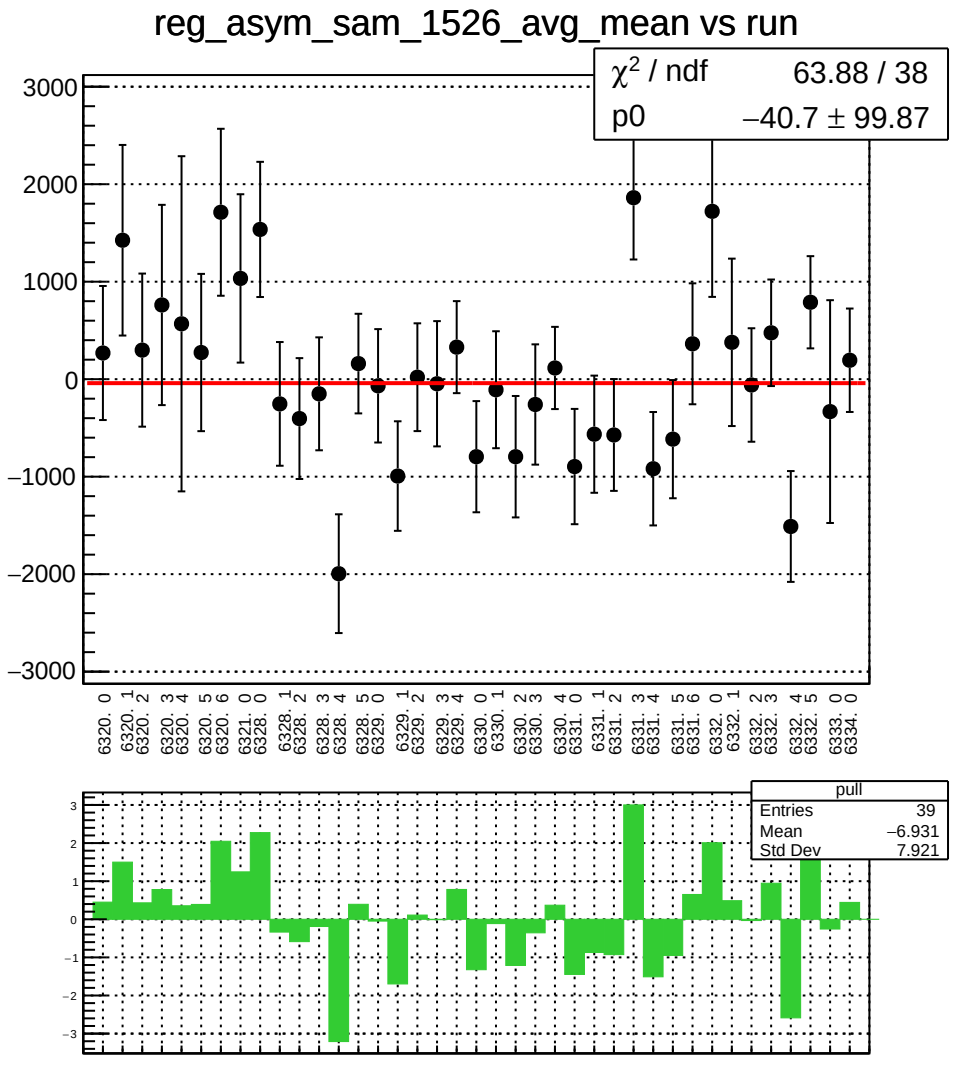

pull1D
Entries 39
Mean 0.02439
Std Dev 0.9017

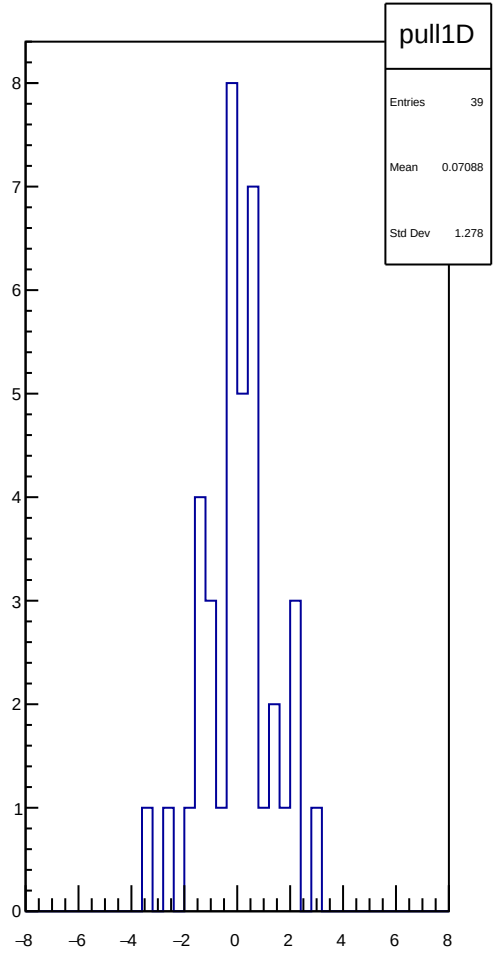

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 38
p0 53.43 ± 0.06227
80
70
60
50
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

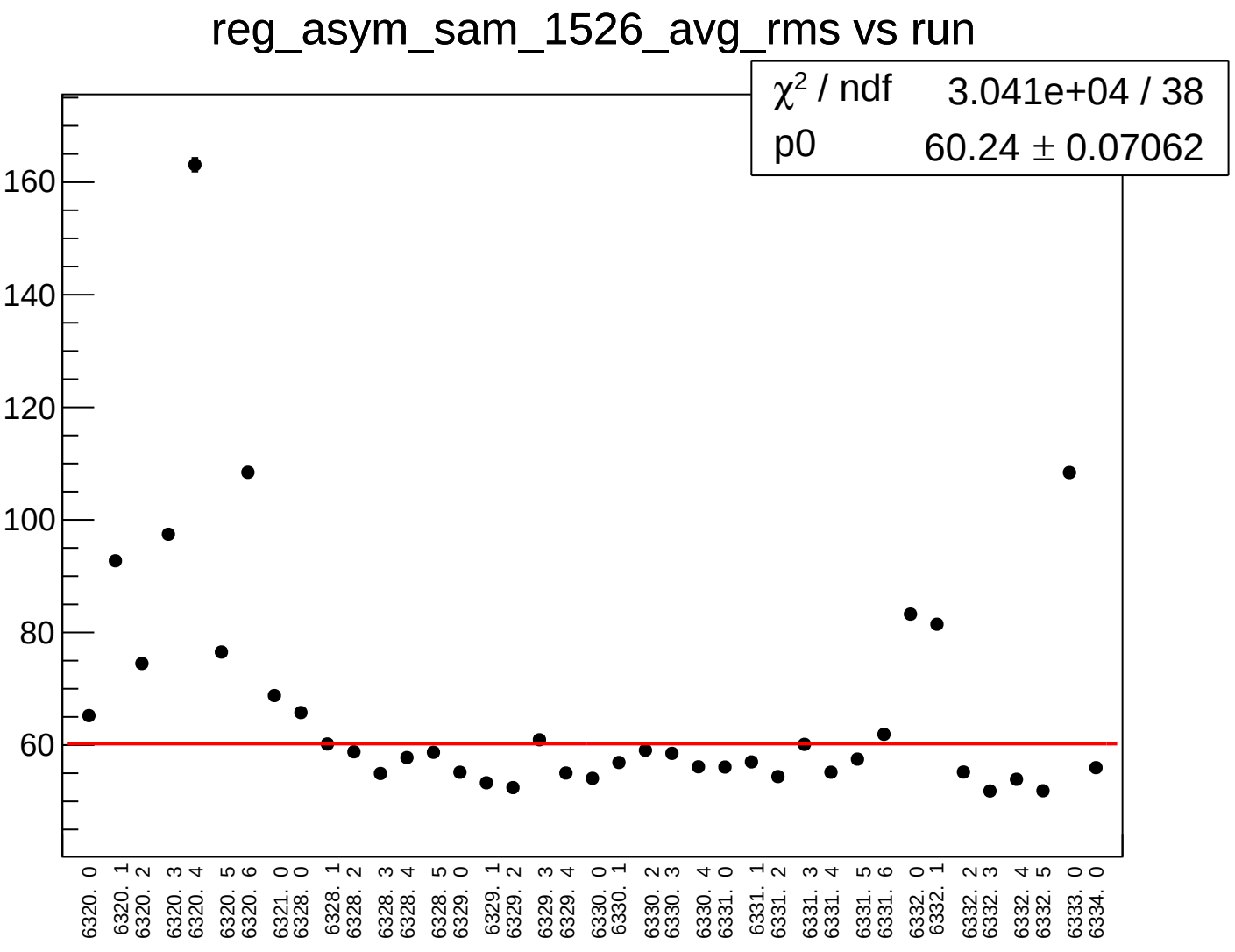

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.24 / 38
p0 −8.492e−14 ± 4.068e−14
pull
Entries 39
Mean 123
Std Dev 0

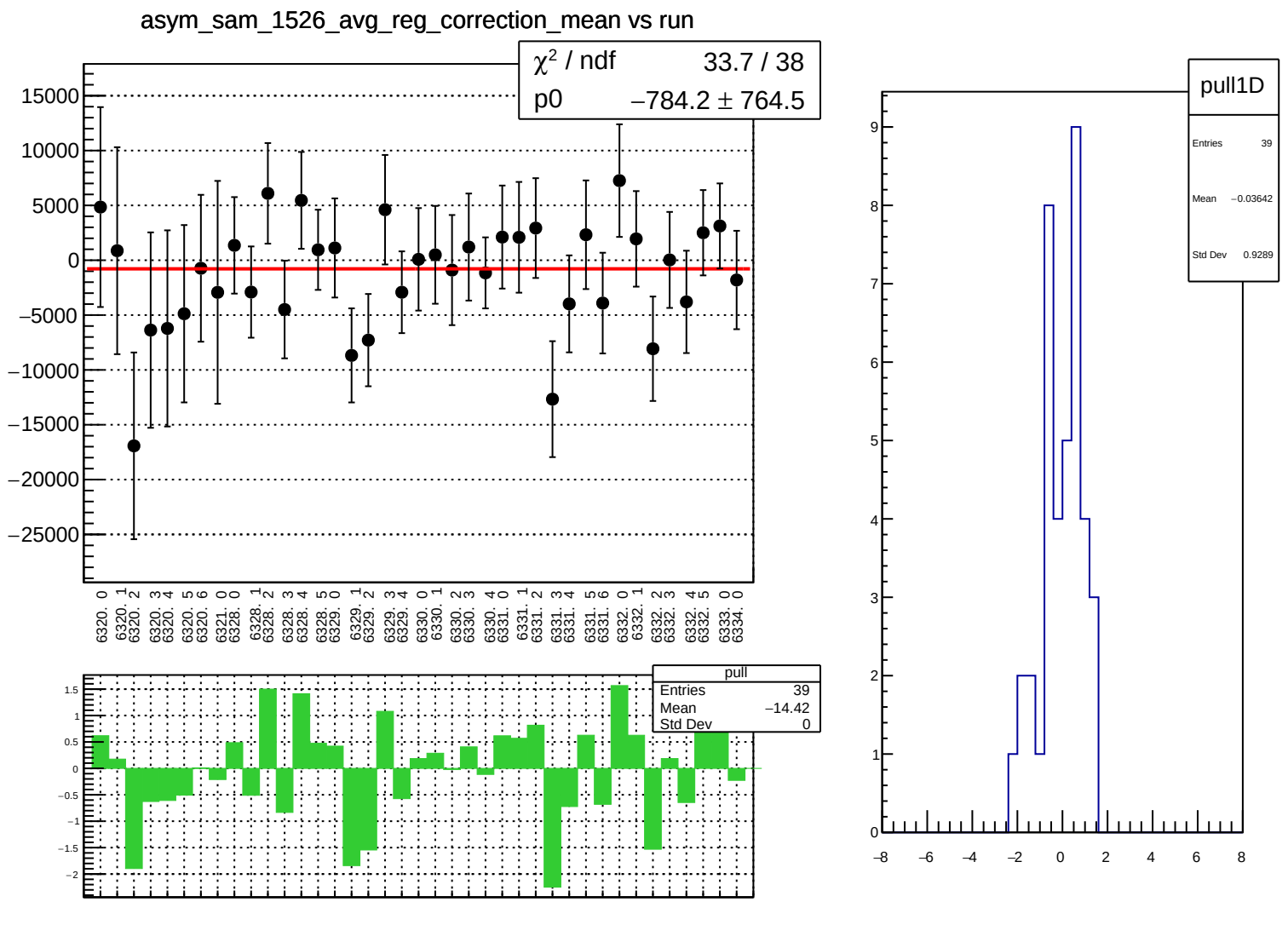

pull1D
Entries 39
Mean 0.02289
Std Dev 0.8947

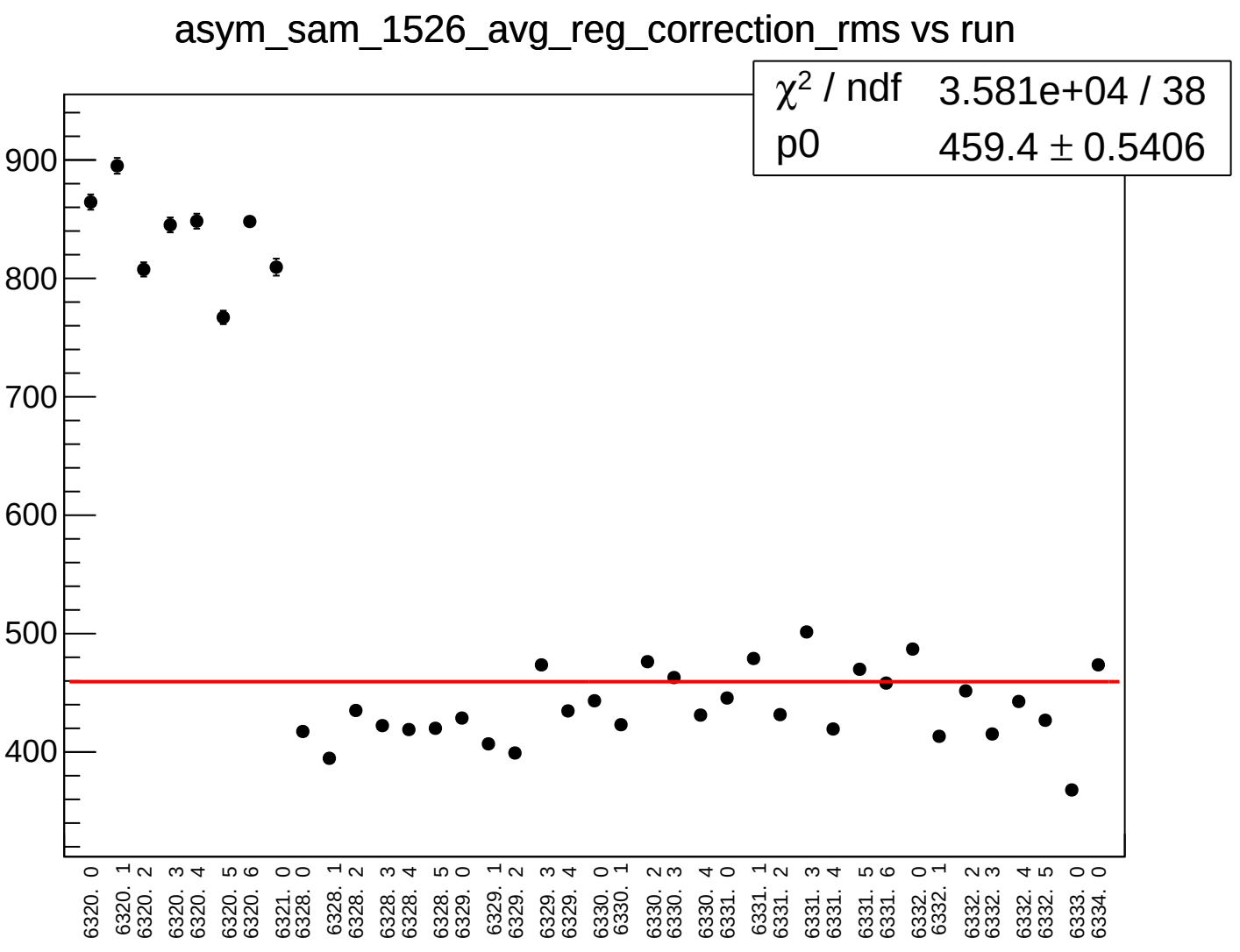

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.409e+05 / 38
p0 2.069e−11 ± 2.877e−14
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

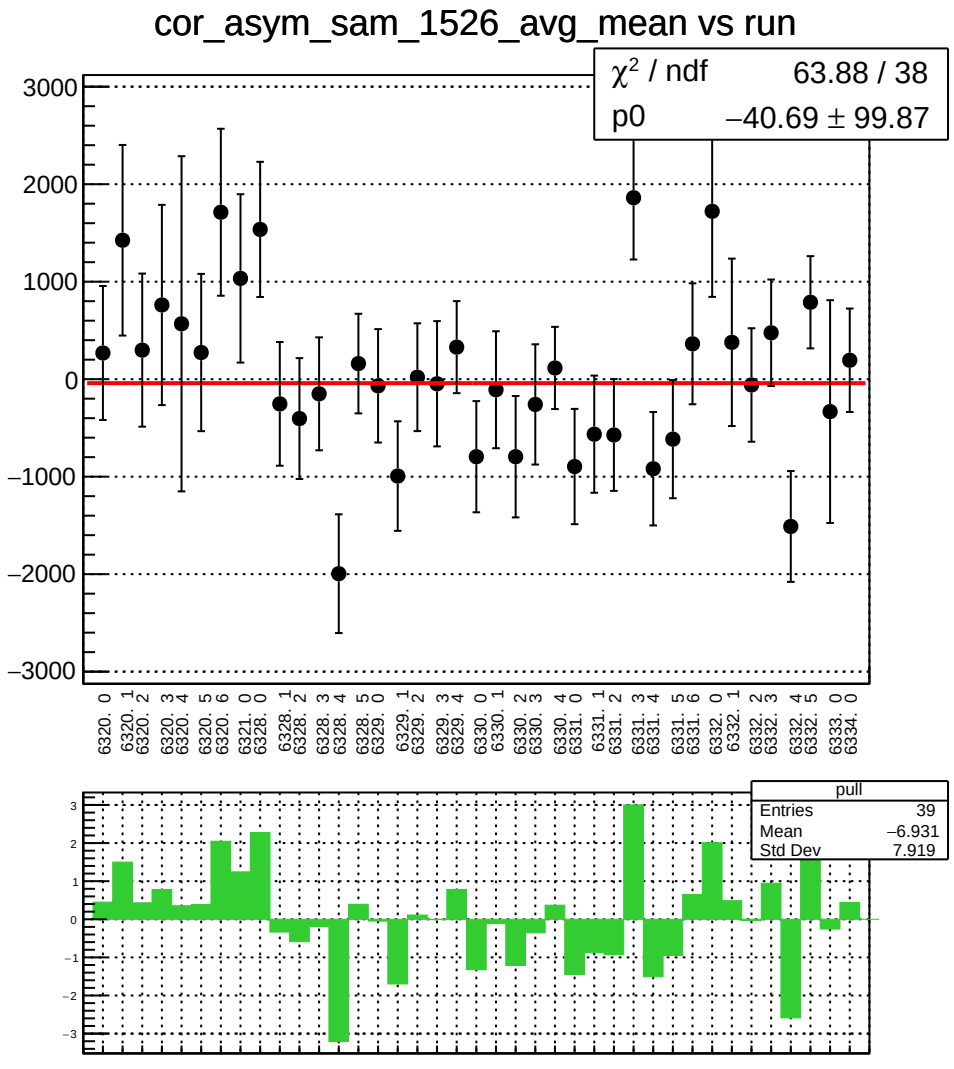

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 63.88 / 38
p0 −40.7 ± 99.87
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.931
Std Dev 7.921
3
2
1
0
−1
−2
−3

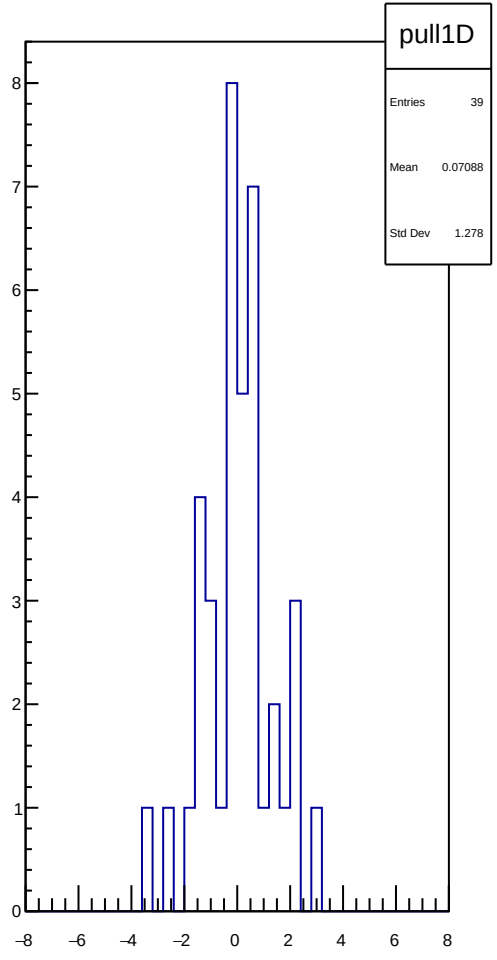

pull1D
Entries 39
Mean 0.07088
Std Dev 1.278
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

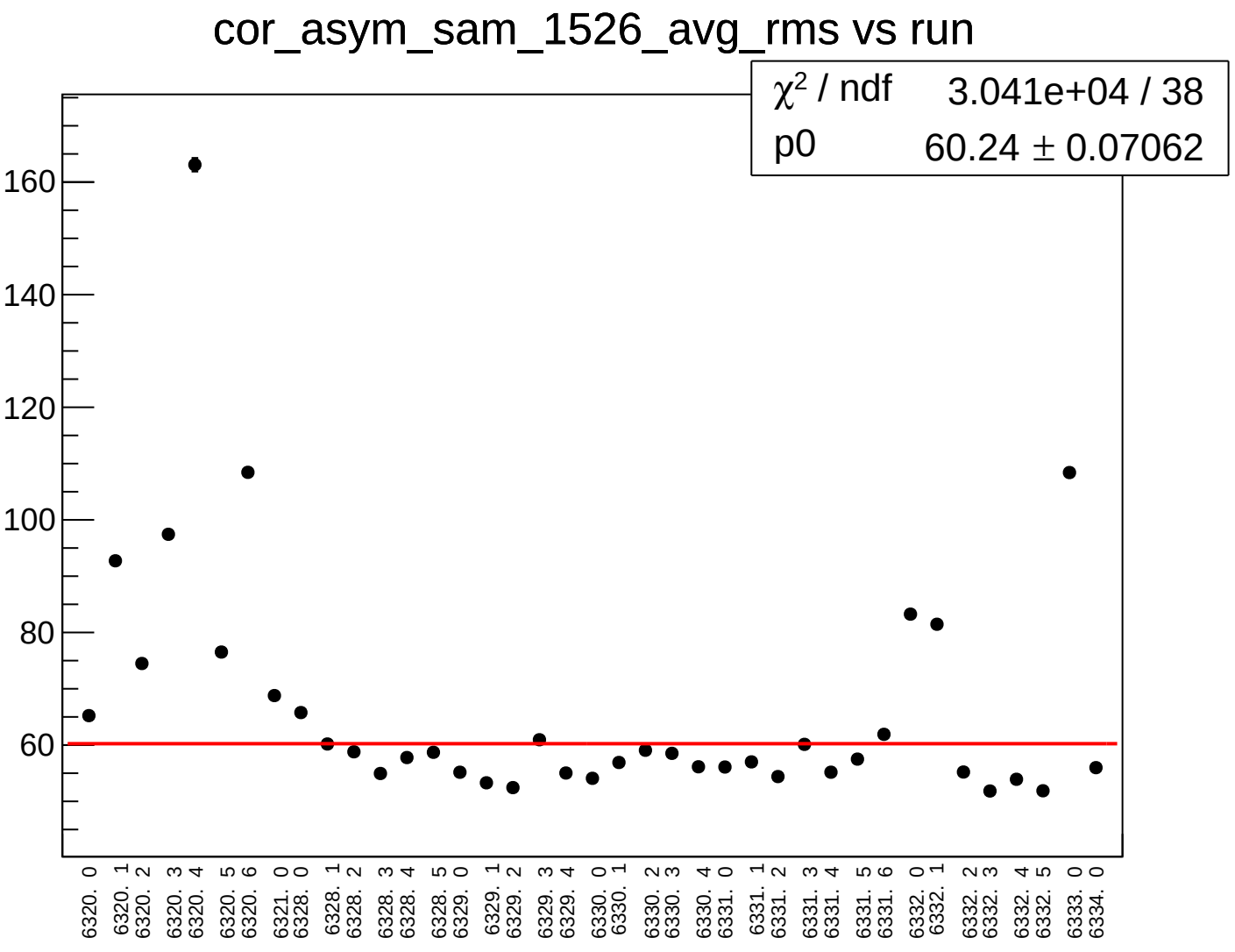

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.041e+04 / 38
p0 60.24 ± 0.07062
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

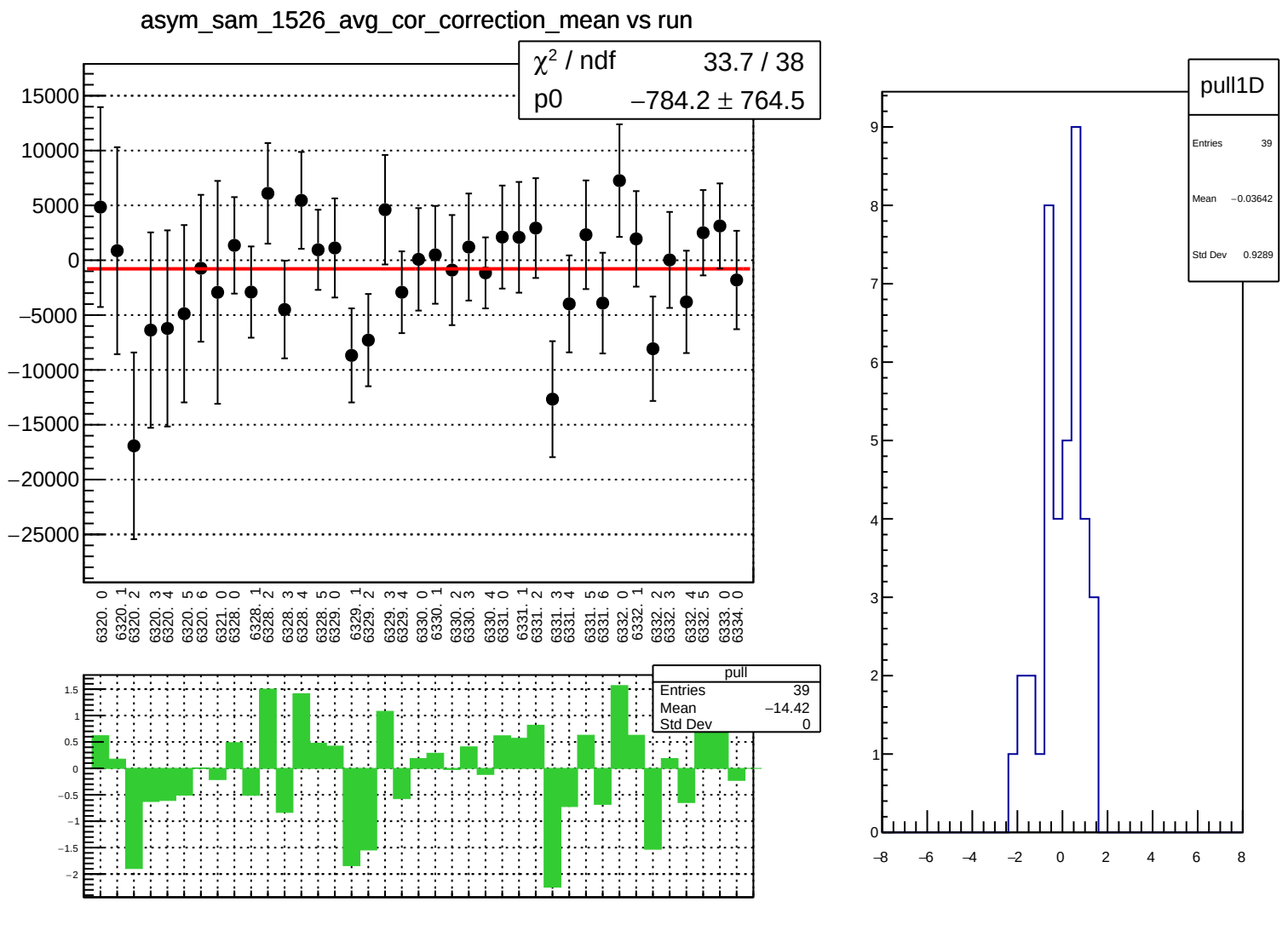

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 33.7 / 38
p0 −784.2 ± 764.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03642
Std Dev 0.9289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

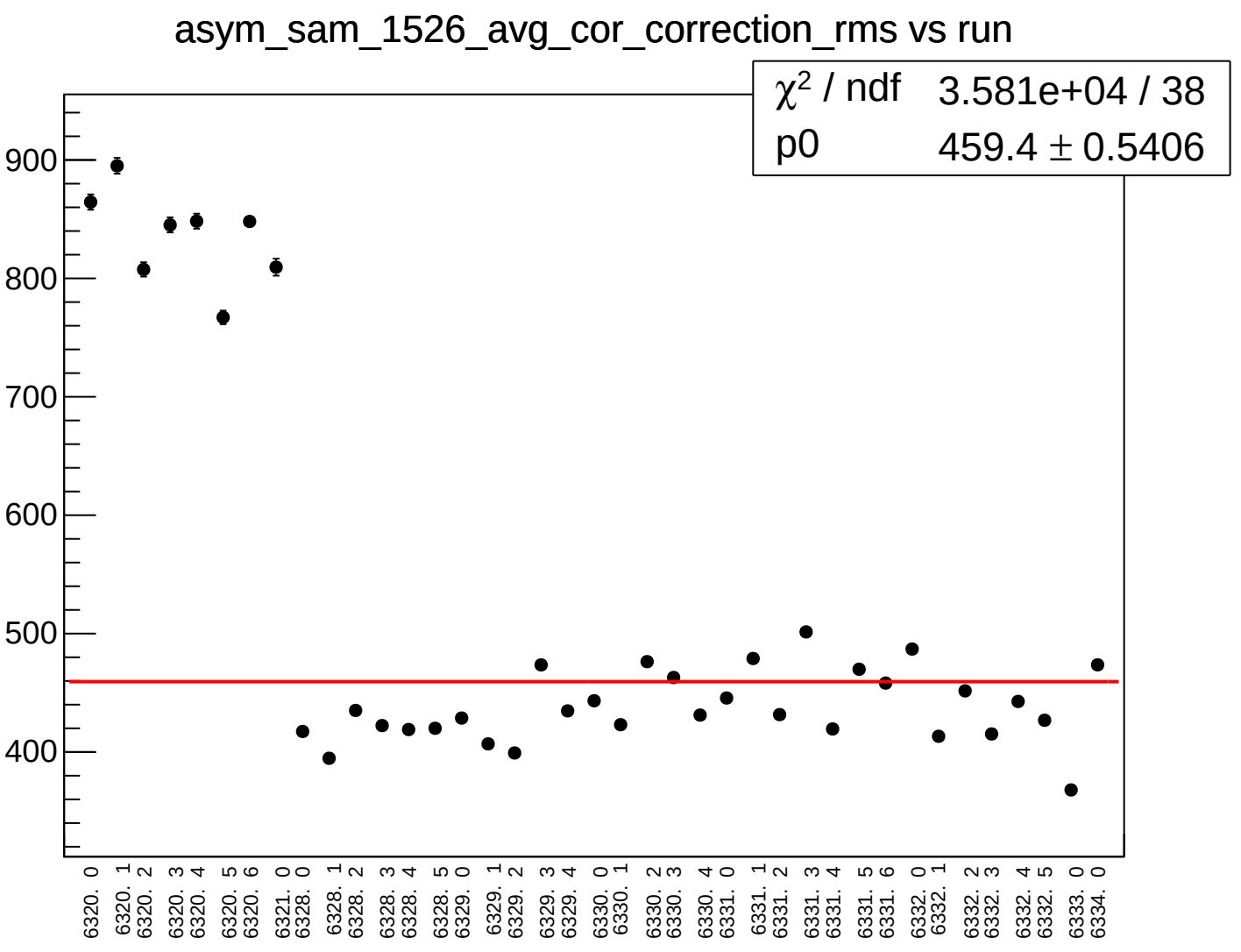

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3.581e+04 / 38
p0 459.4 ± 0.5406
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

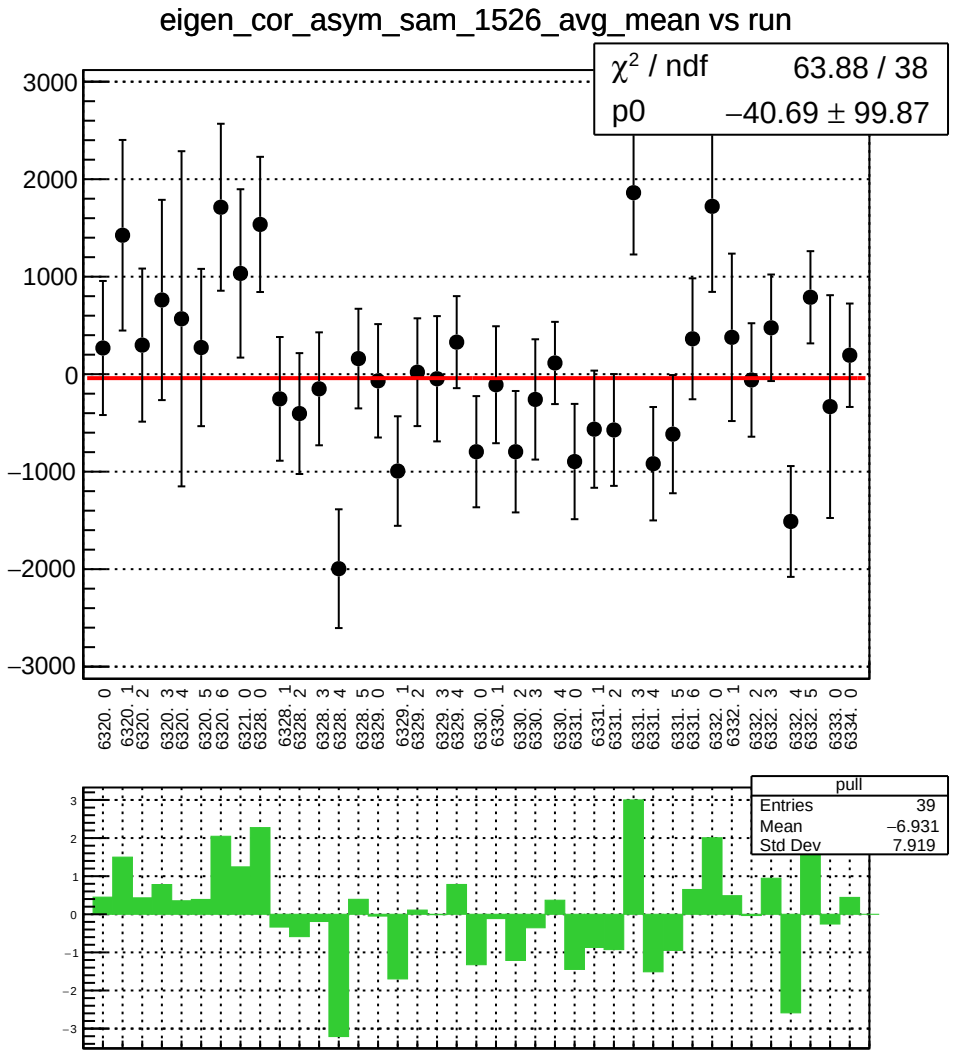

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 63.88 / 38
p0 −40.69 ± 99.87
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.931
Std Dev 7.919
3
2
1
0
−1
−2
−3

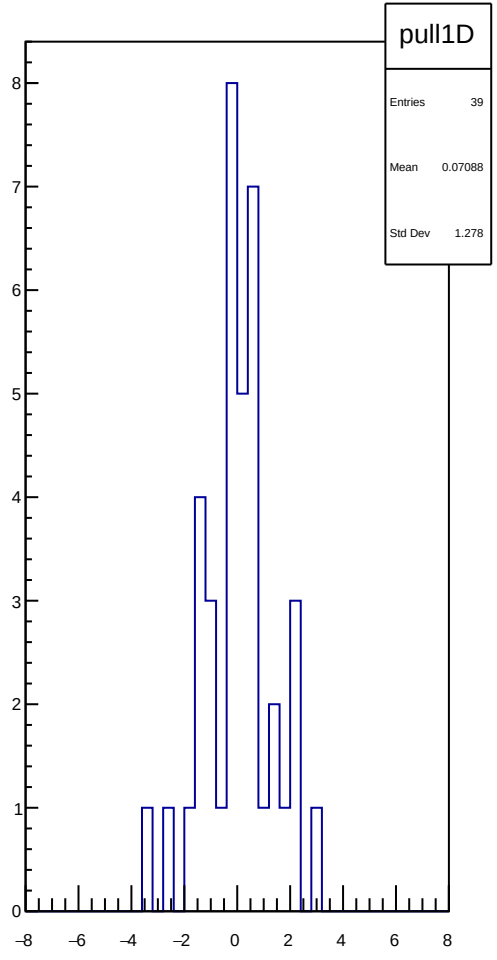

pull1D
Entries 39
Mean 0.07088
Std Dev 1.278
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

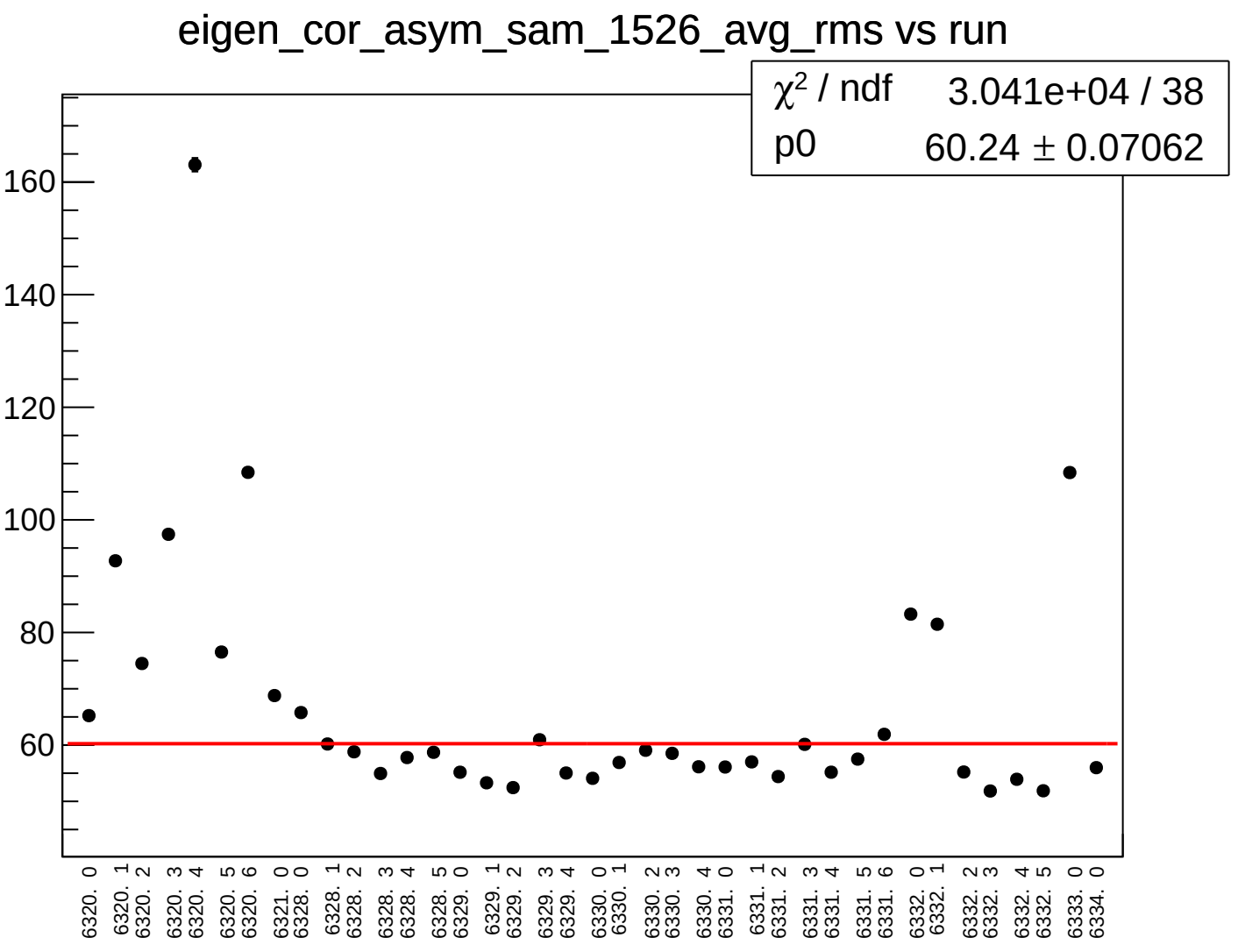

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.041e+04 / 38
p0 60.24 ± 0.07062
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

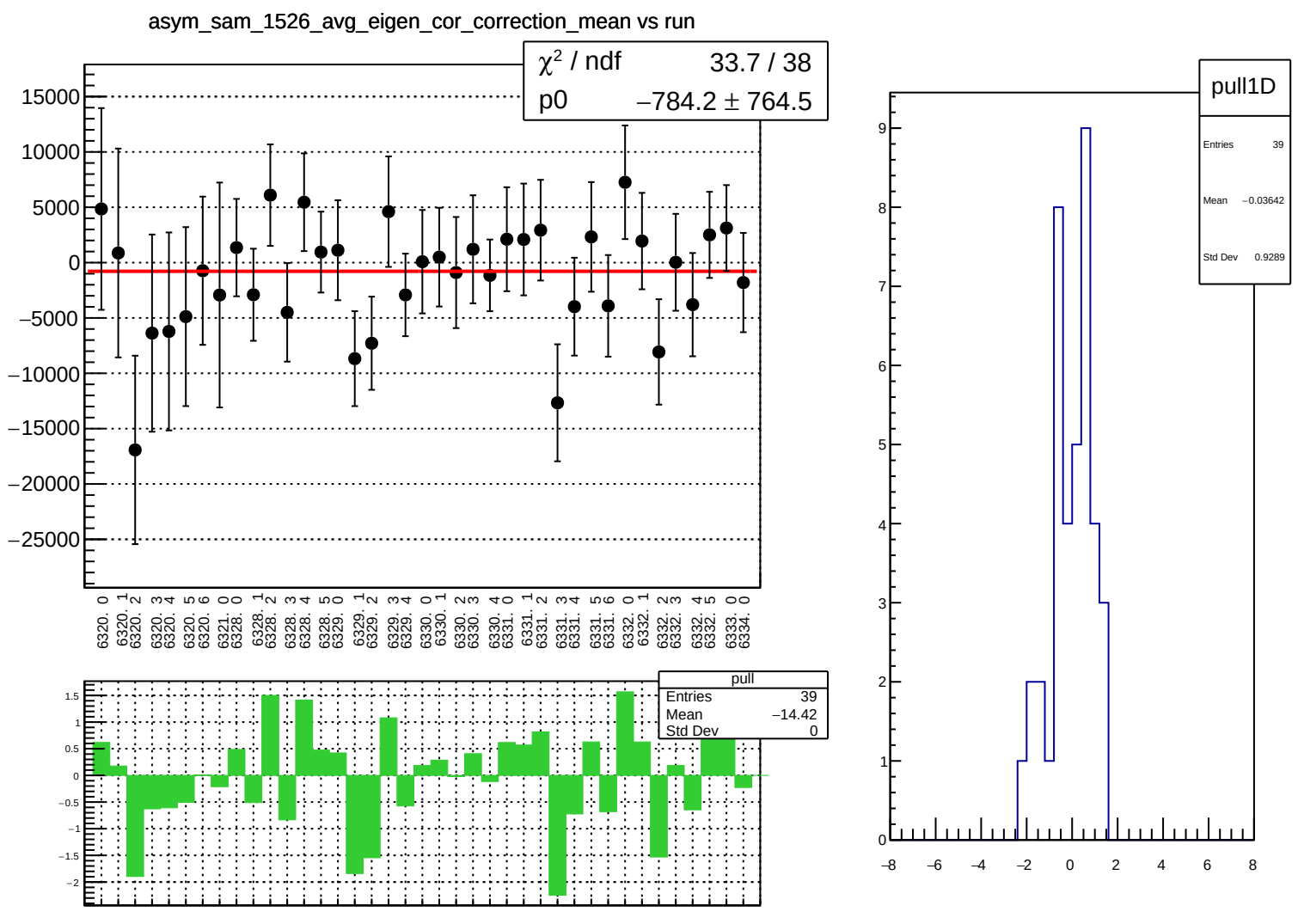

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 33.7 / 38
p0 −784.2 ± 764.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03642
Std Dev 0.9289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

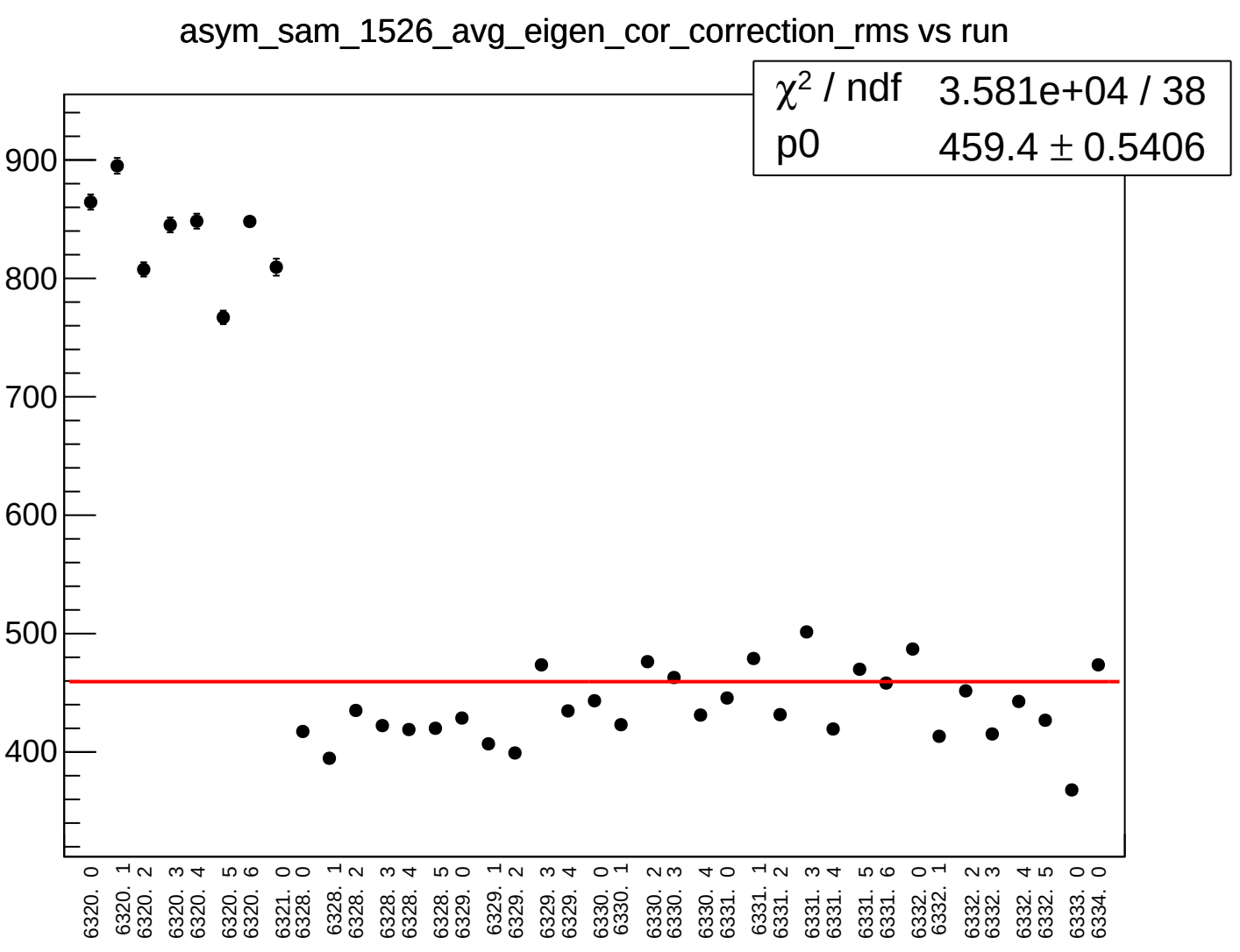

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3.581e+04 / 38
p0 459.4 ± 0.5406
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

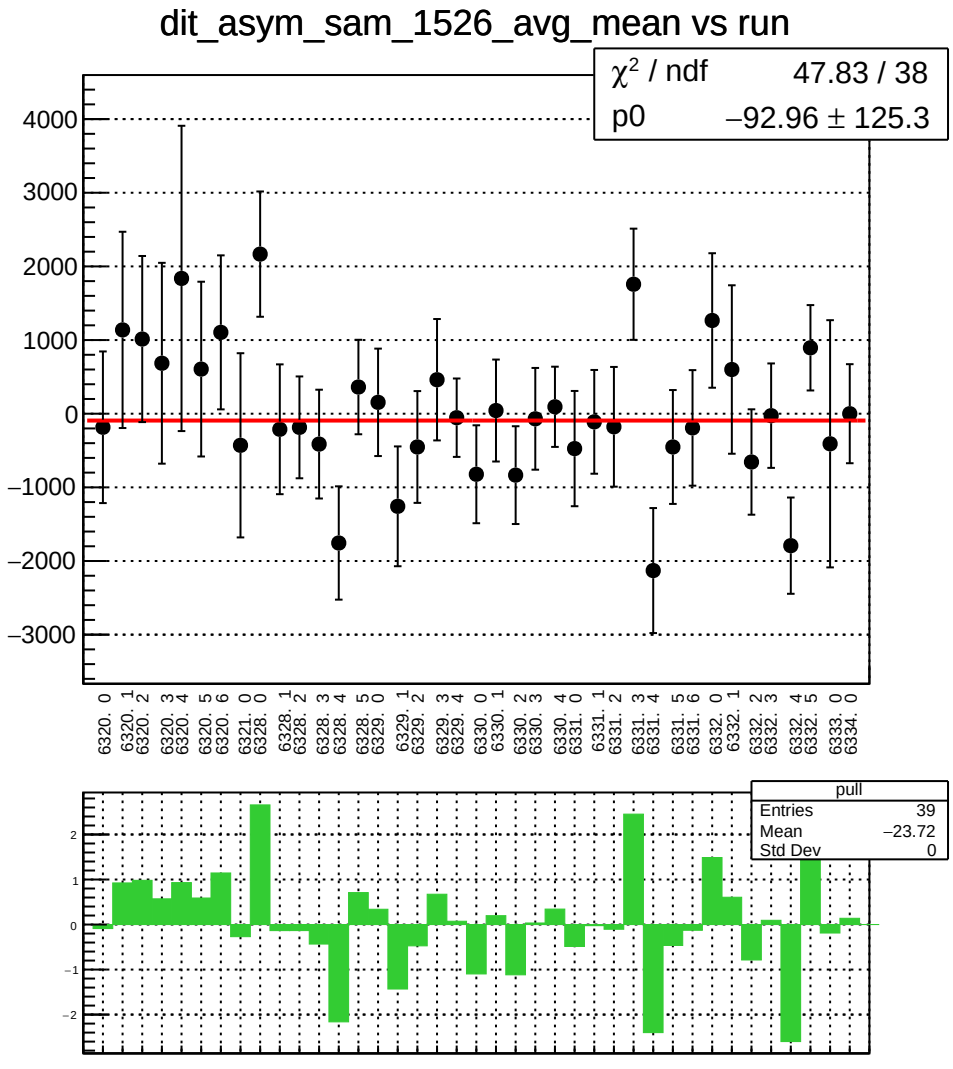

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 63.88 / 38
p0 −40.69 ± 99.87
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −6.931
Std Dev 7.919
3
2
1
0
−1
−2
−3

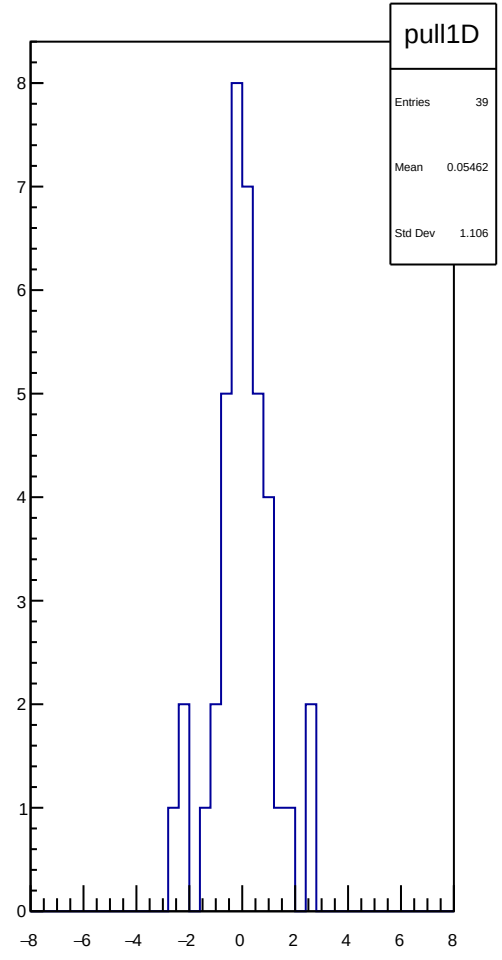

pull1D
Entries 39
Mean 0.07088
Std Dev 1.278
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

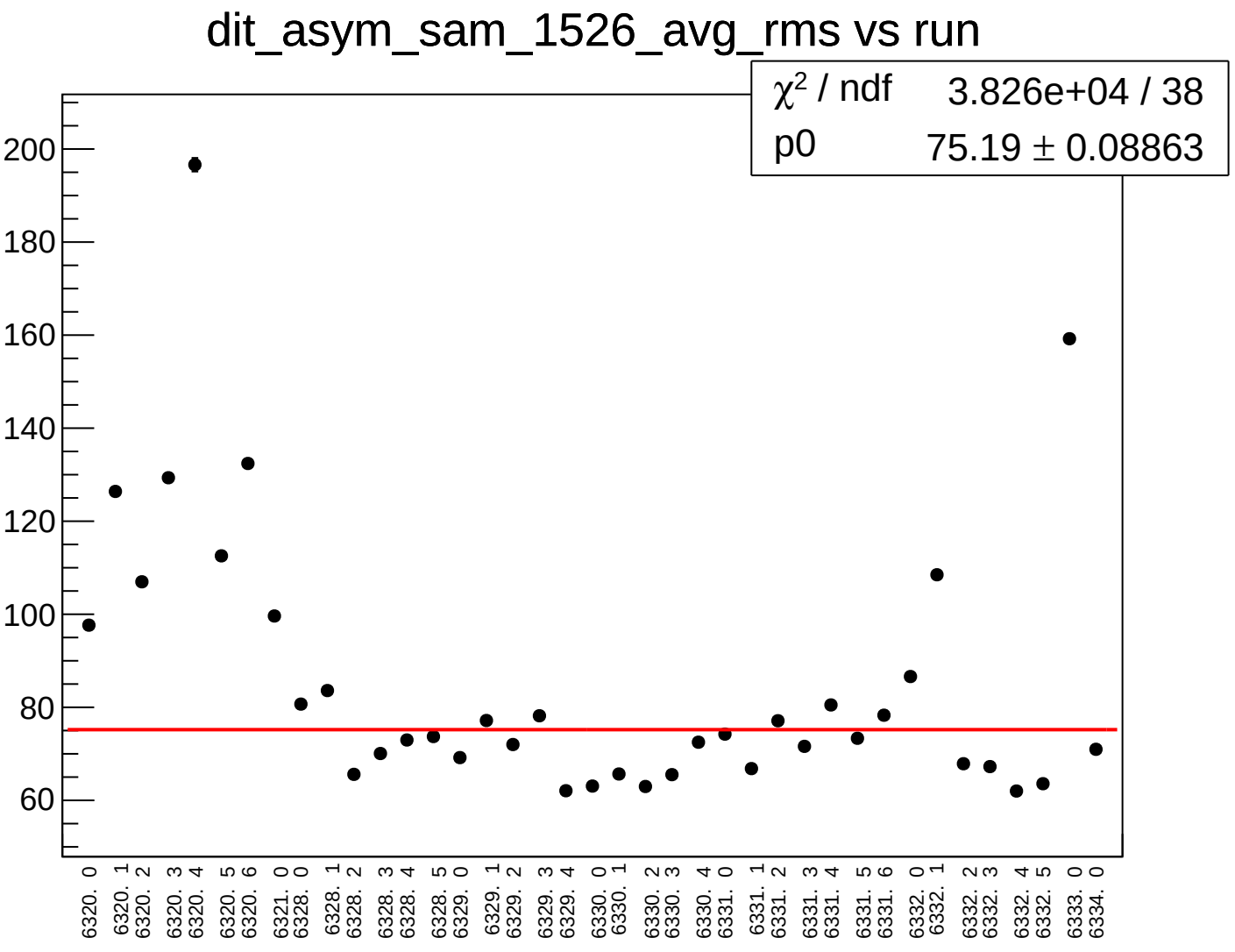

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.041e+04 / 38
p0 60.24 ± 0.07062
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

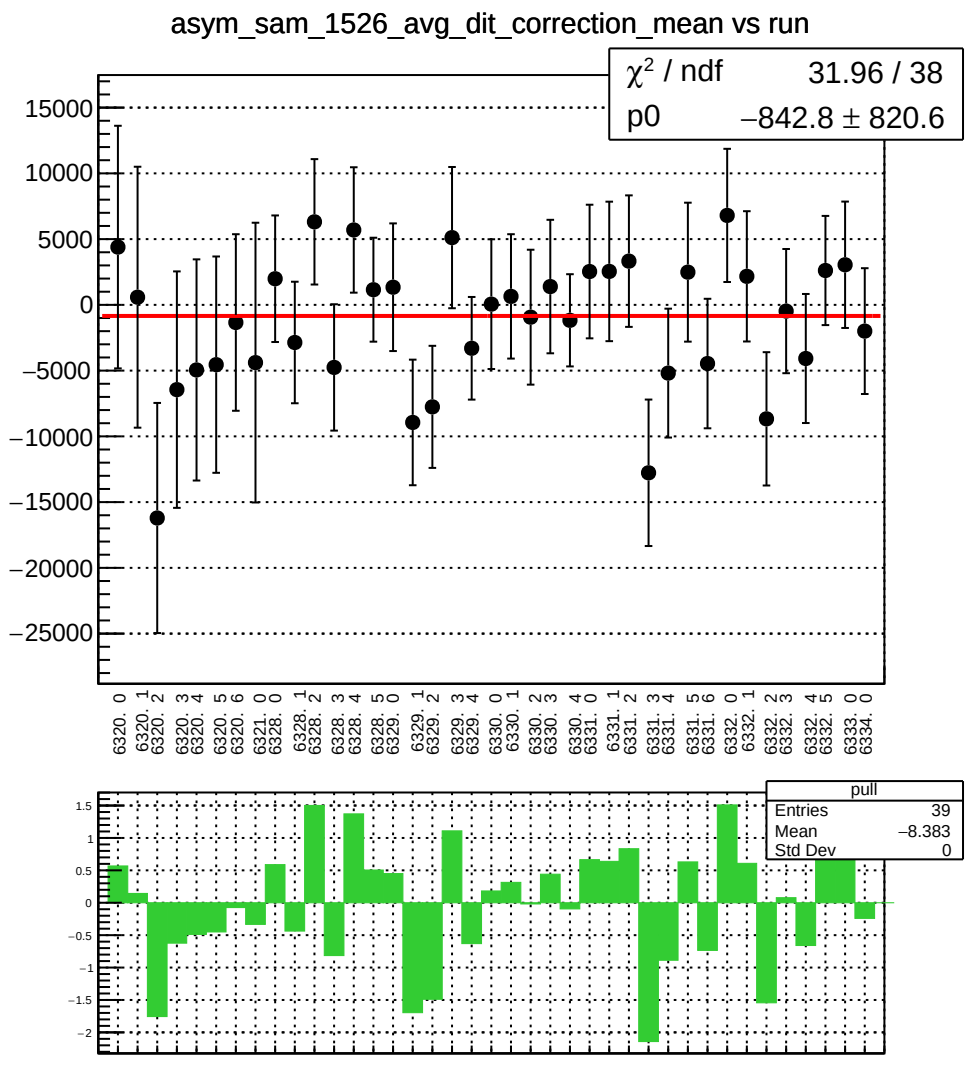

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.7 / 38
p0 −784.2 ± 764.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −14.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03642
Std Dev 0.9289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

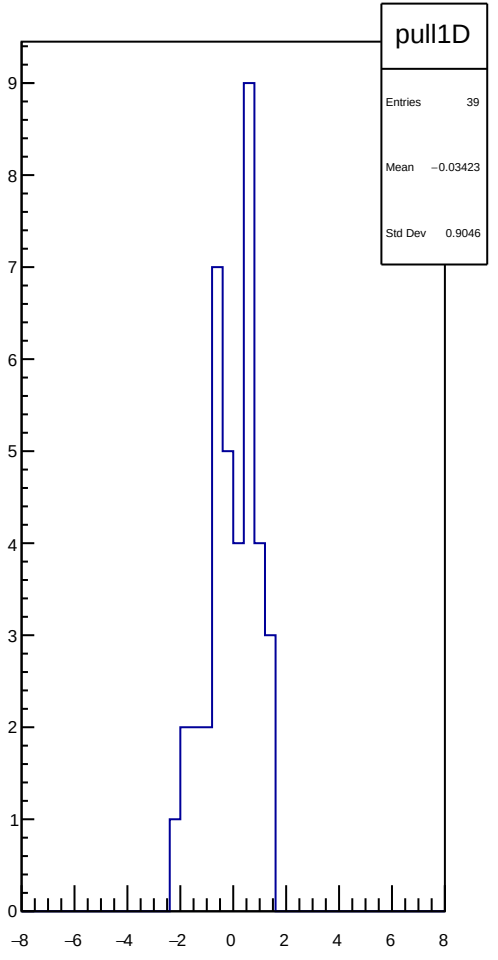

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.581e+04 / 38
p0 459.4 ± 0.5406
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

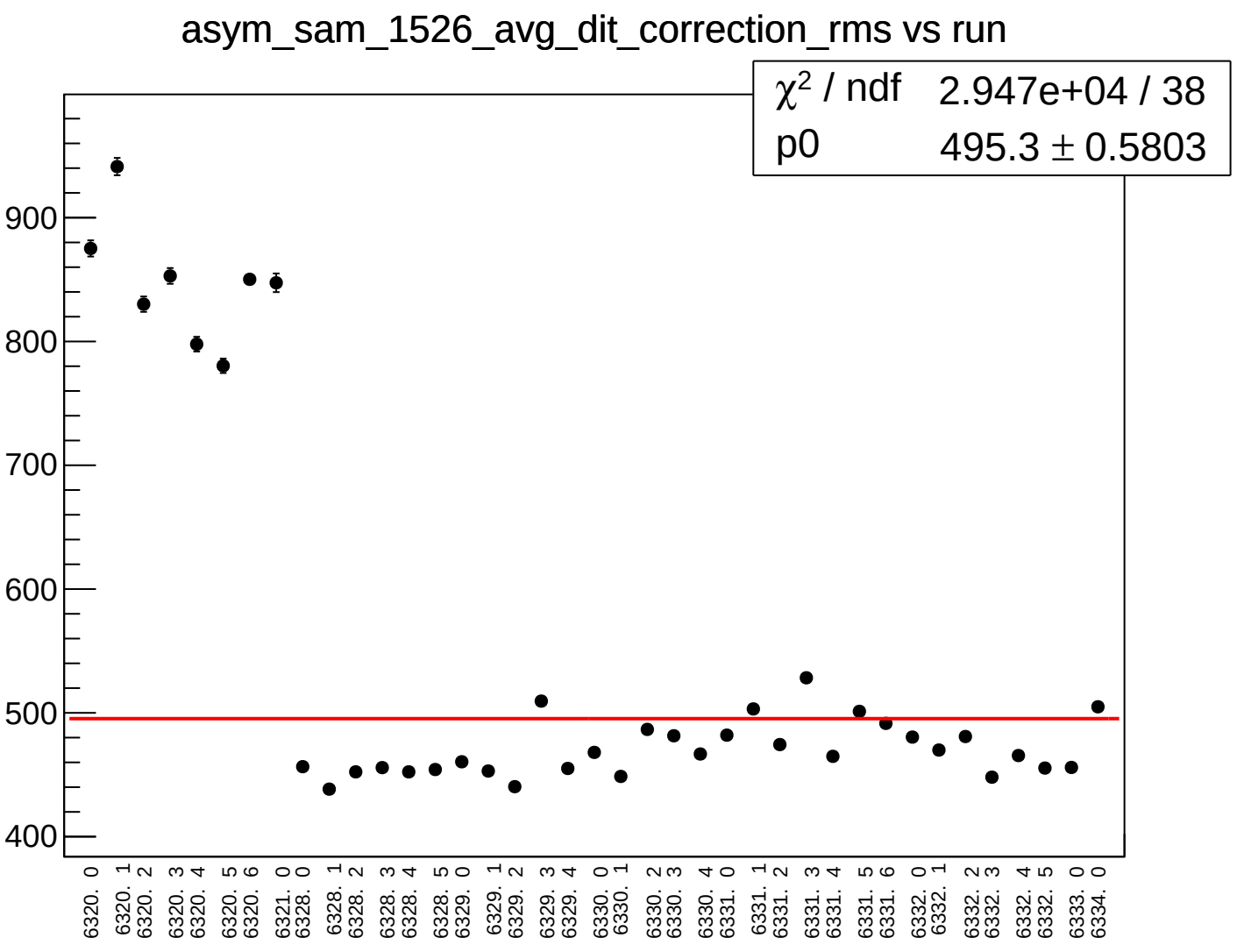

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 47.83 / 38
p0 −92.96 ± 125.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.72
Std Dev 0
2
1
0
−1
−2

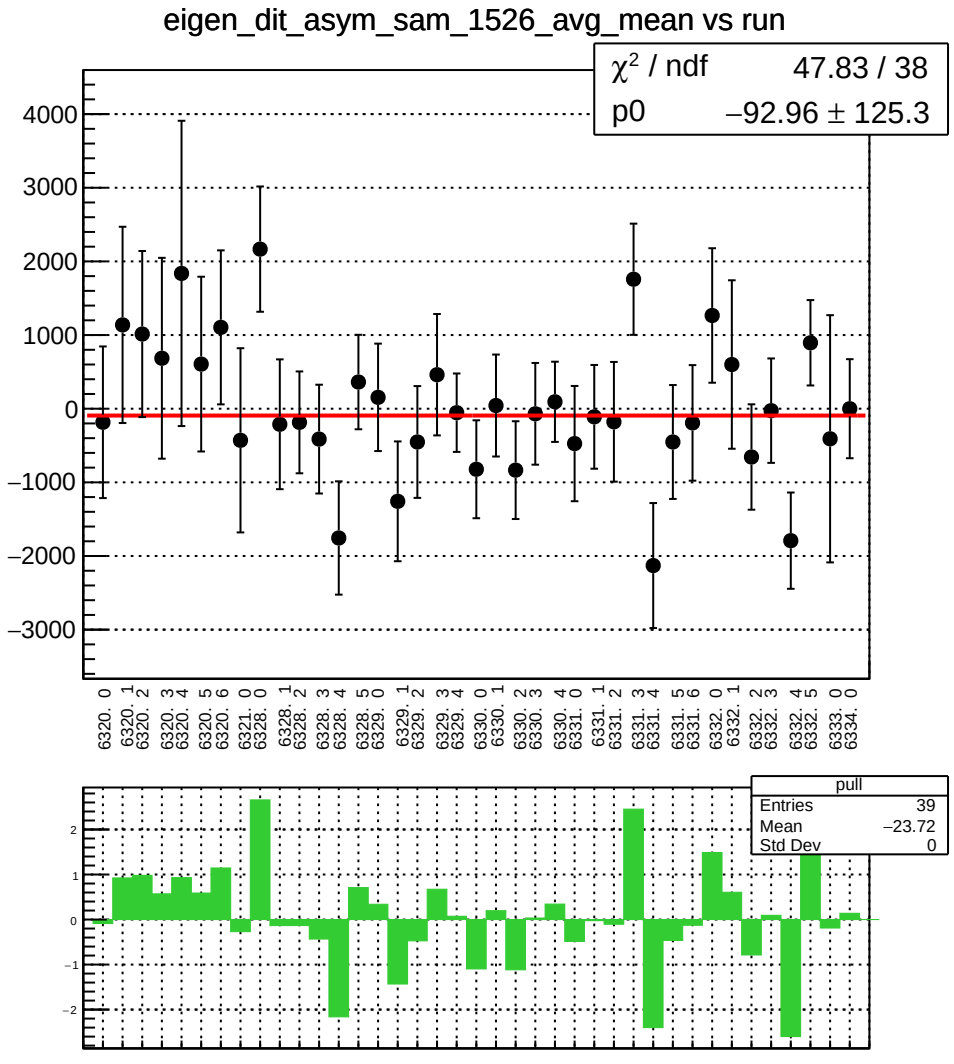

pull1D
Entries 39
Mean 0.05462
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

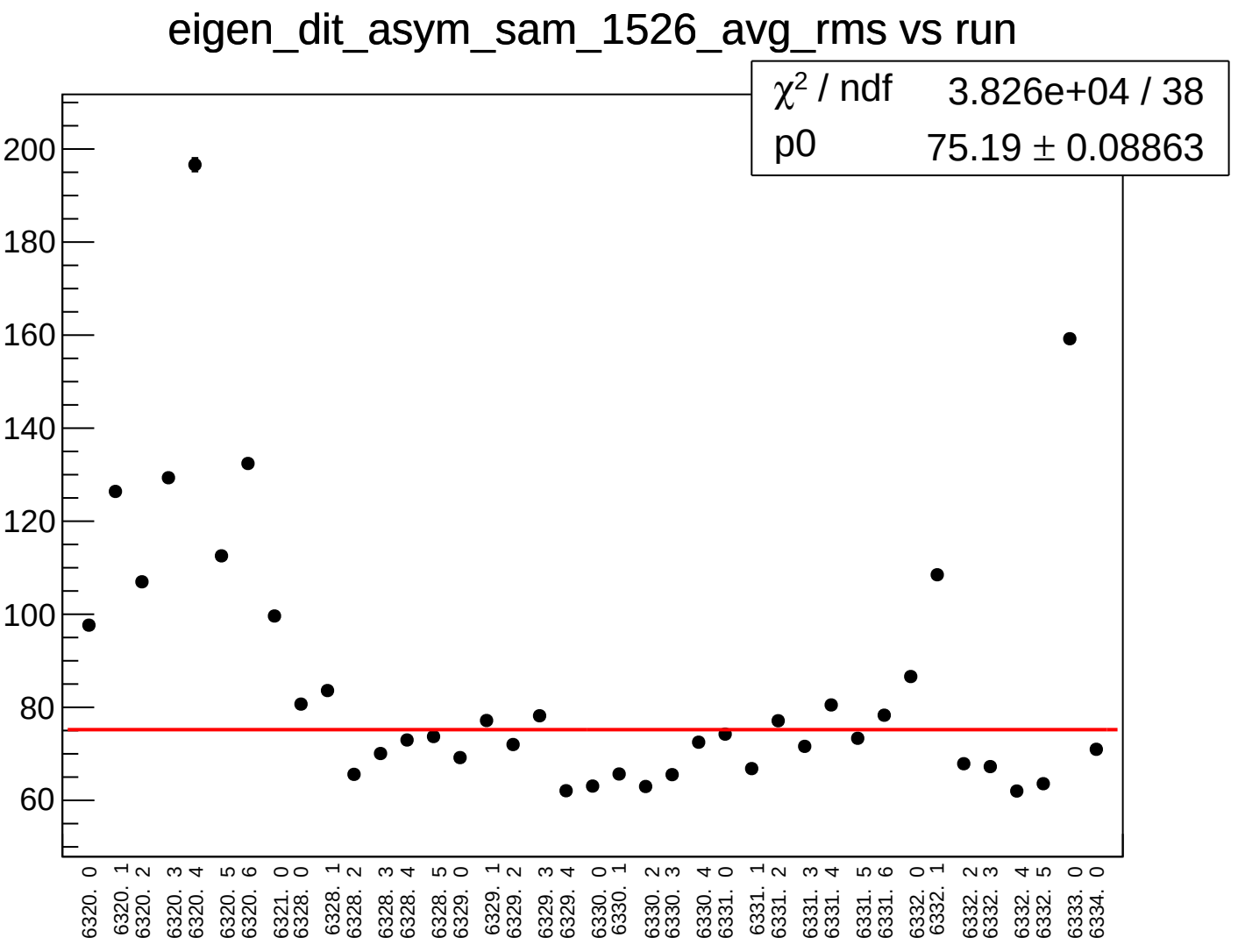

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.826e+04 / 38
p0 75.19 ± 0.08863
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

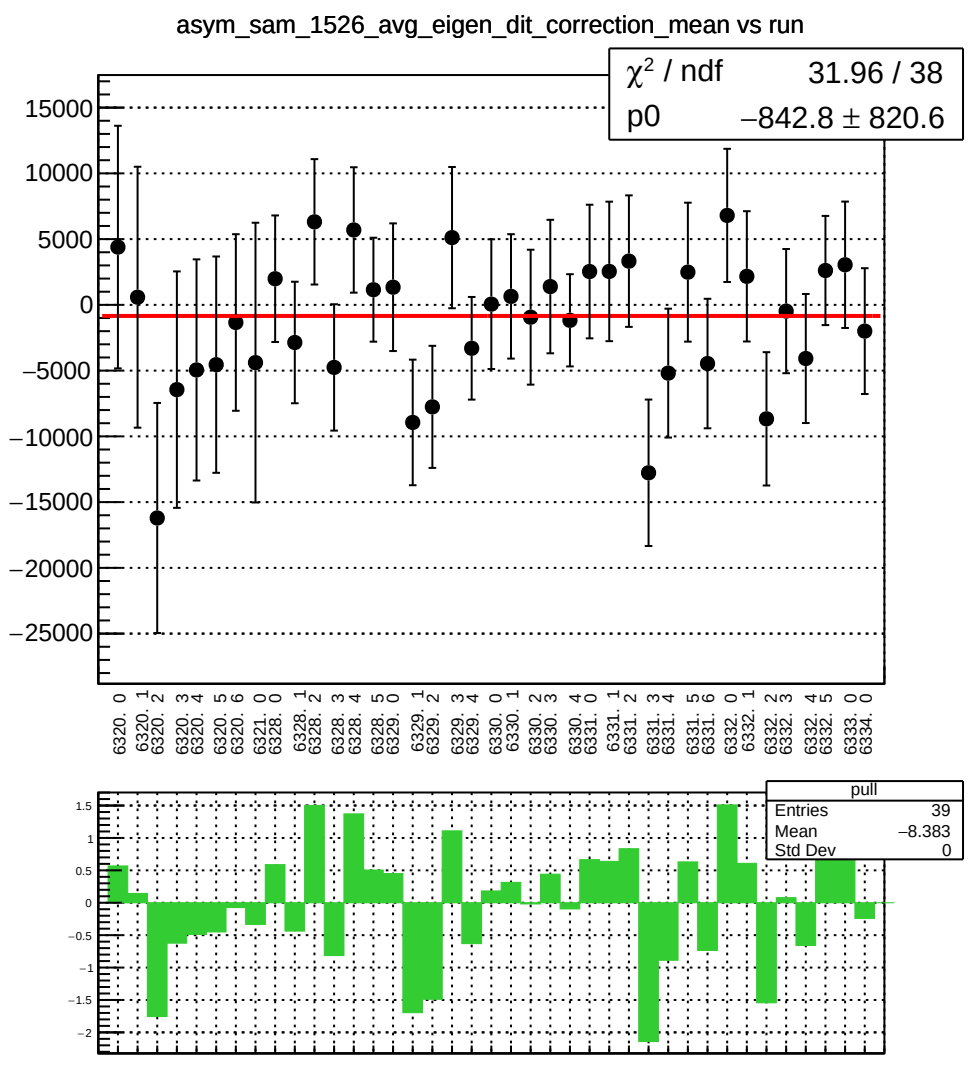

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 31.96 / 38
p0 −842.8 ± 820.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.383
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

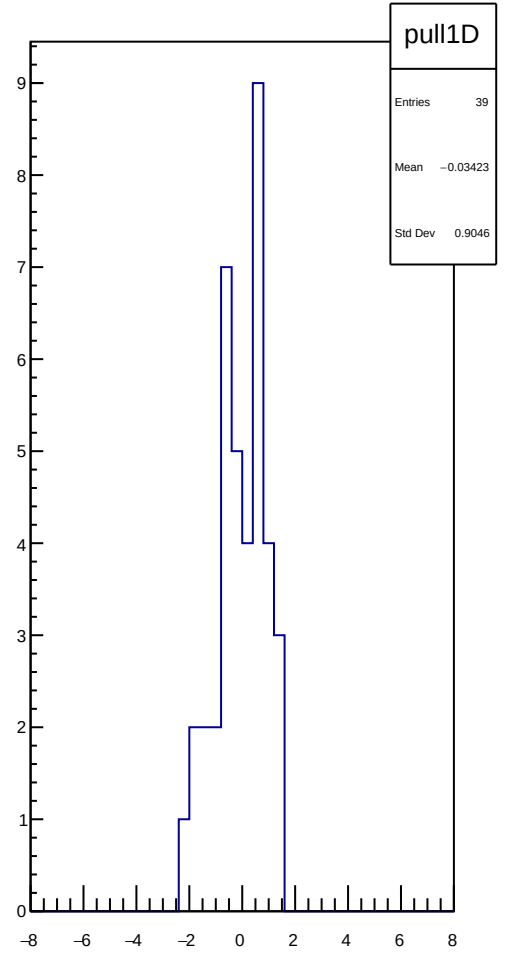

pull1D
Entries 39
Mean −0.03423
Std Dev 0.9046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

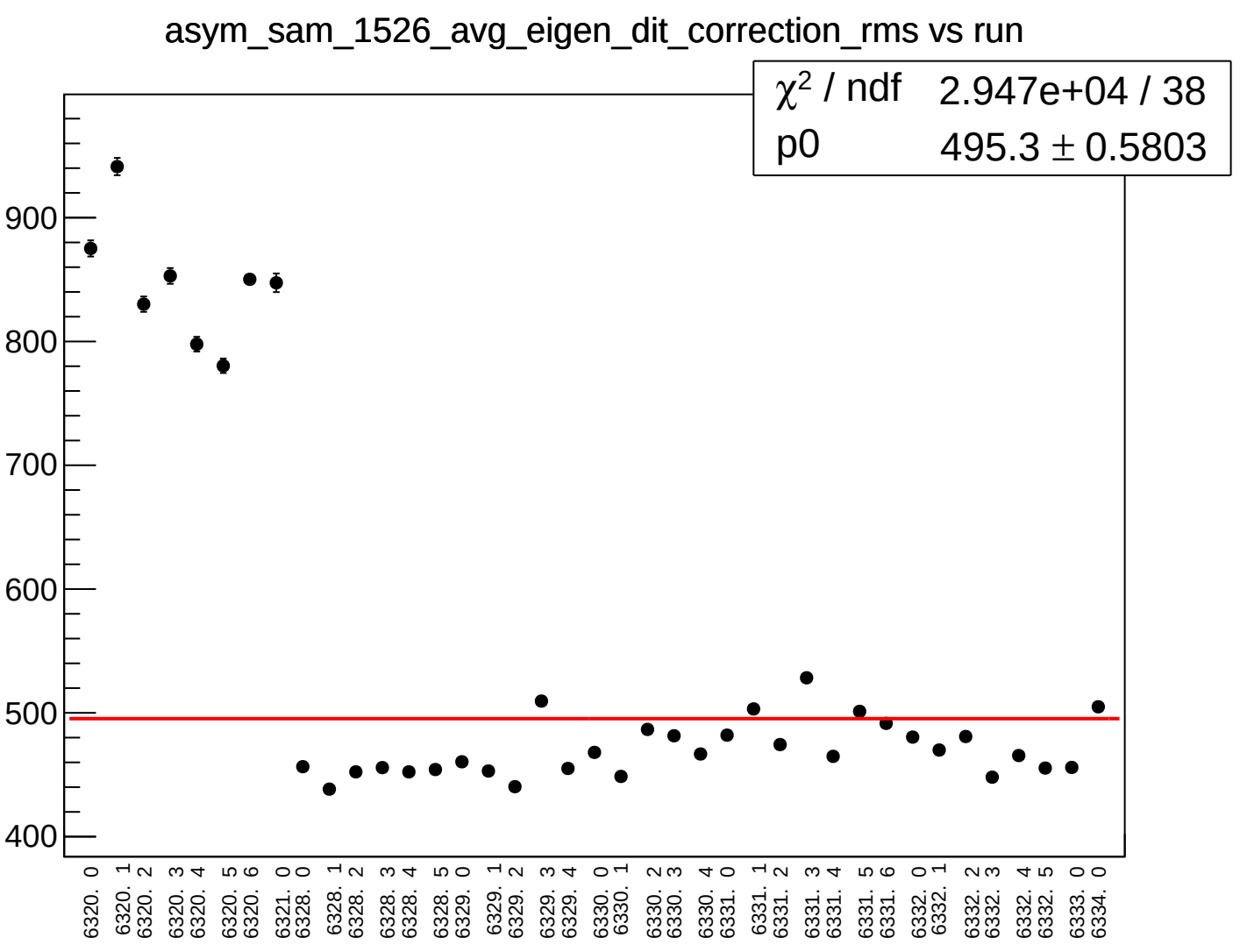

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2.947e+04 / 38
p0 495.3 ± 0.5803
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

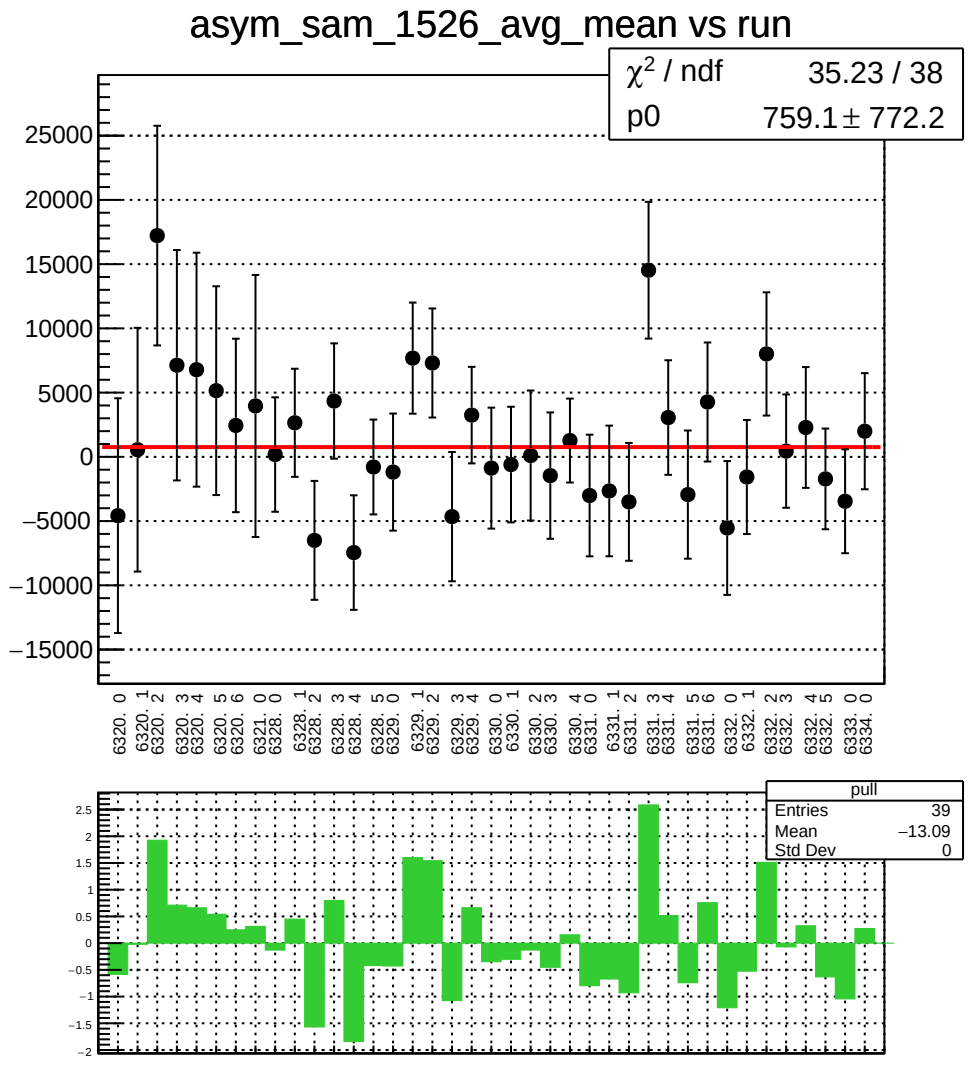

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 47.83 / 38
p0 −92.96 ± 125.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05462
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

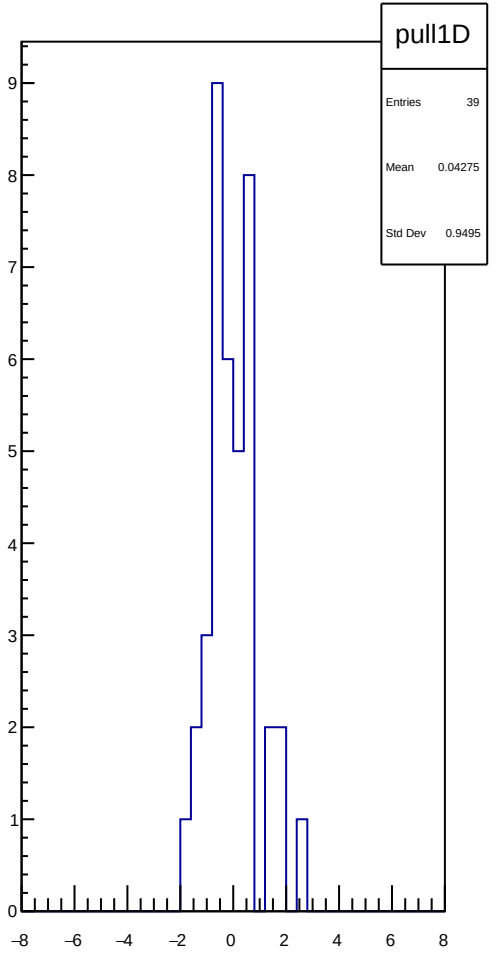

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.826e+04 / 38
p0 75.19 ± 0.08863
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

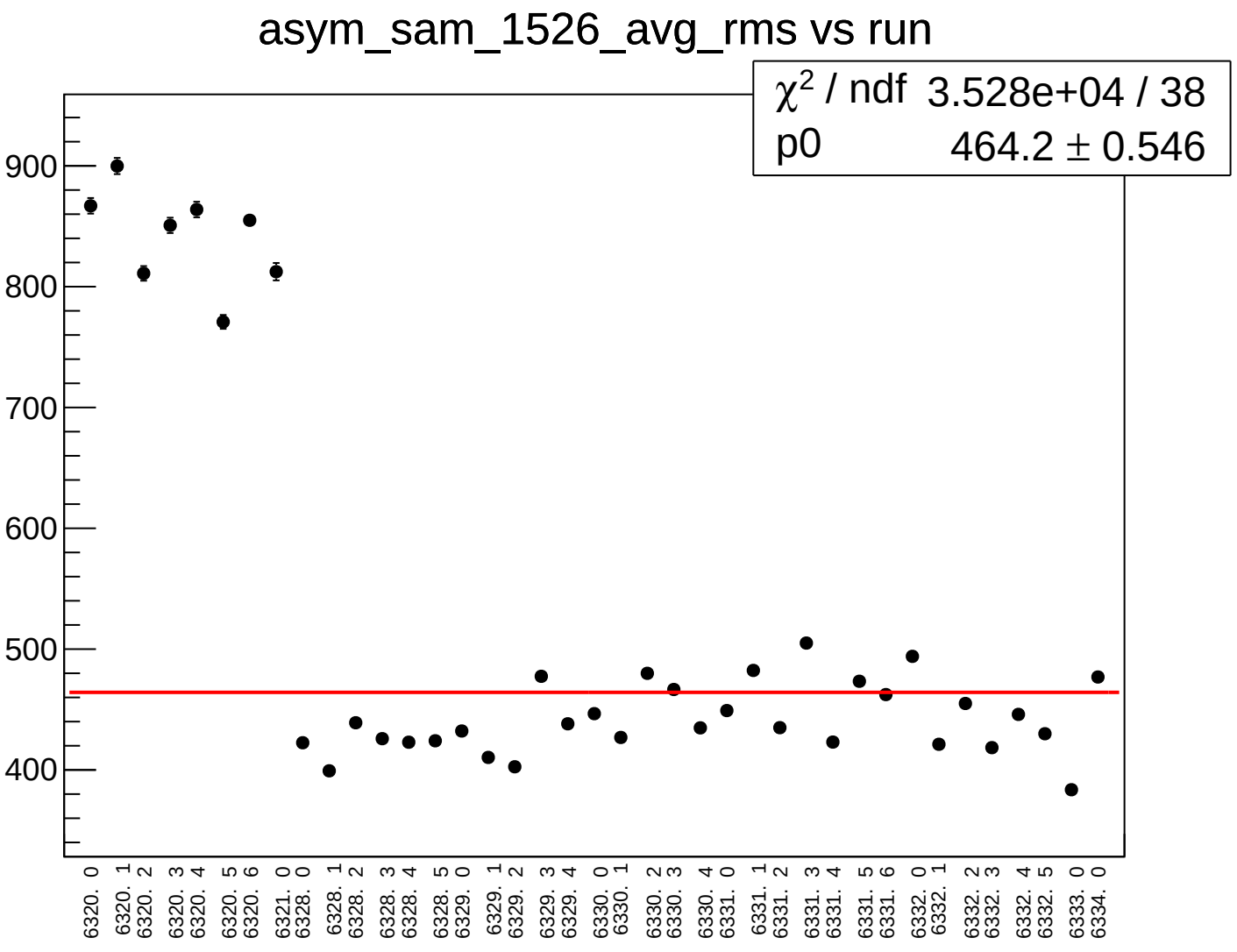

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.96 / 38
p0 −842.8 ± 820.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.383
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

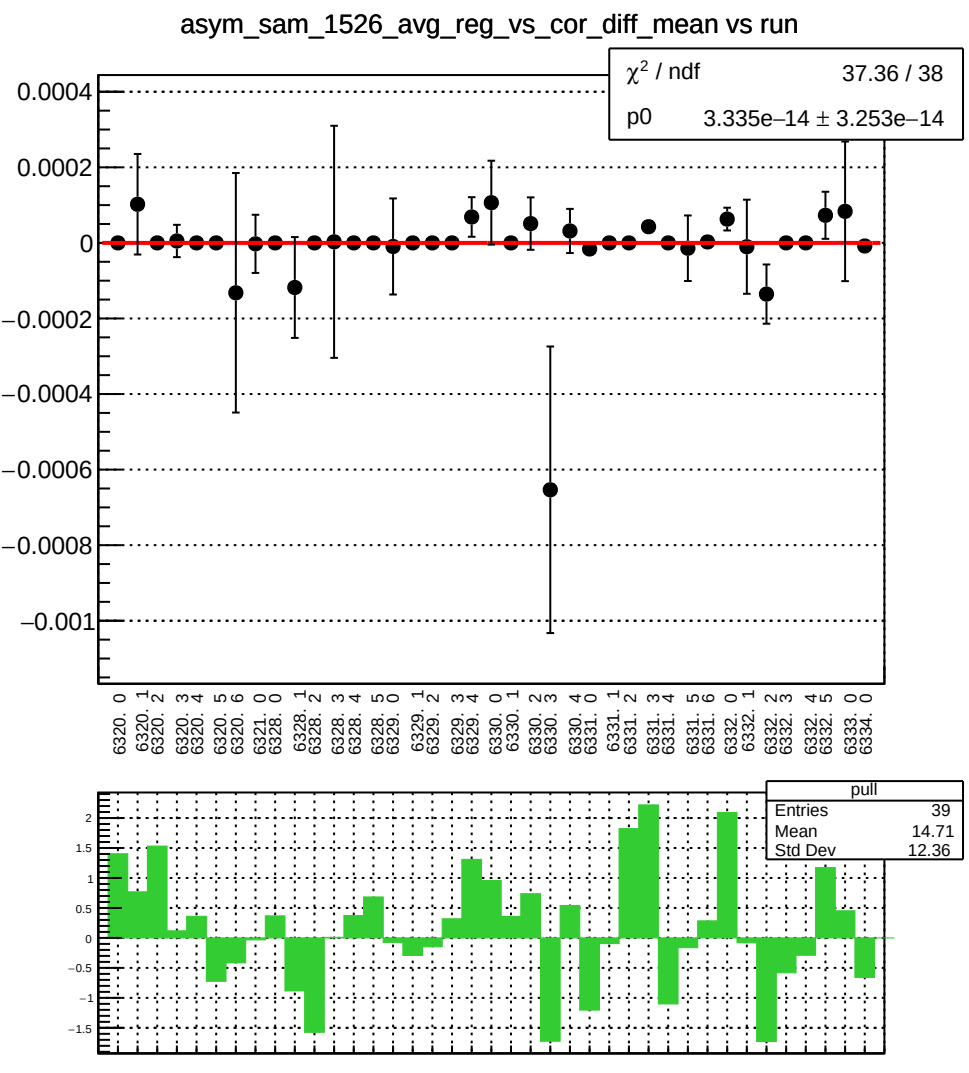

pull1D
Entries 39
Mean −0.03423
Std Dev 0.9046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

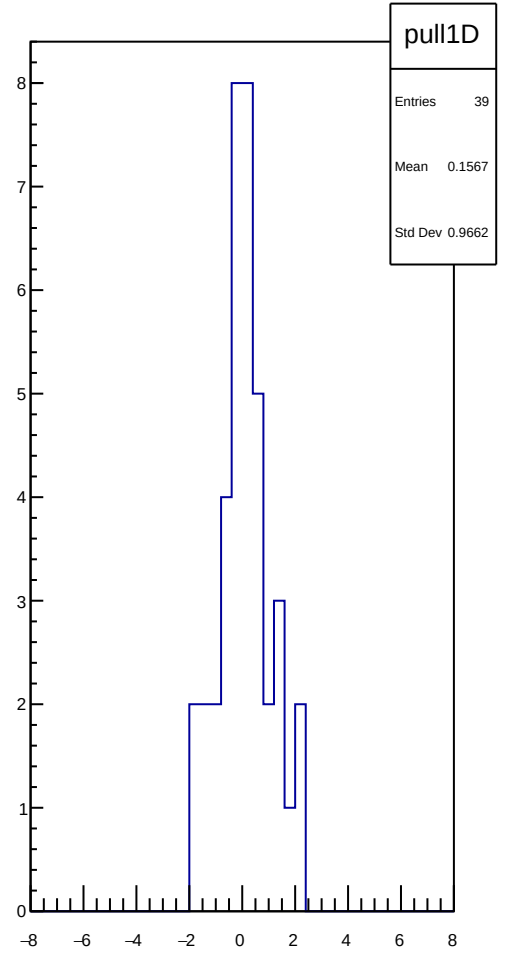

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.947e+04 / 38
p0 495.3 ± 0.5803
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

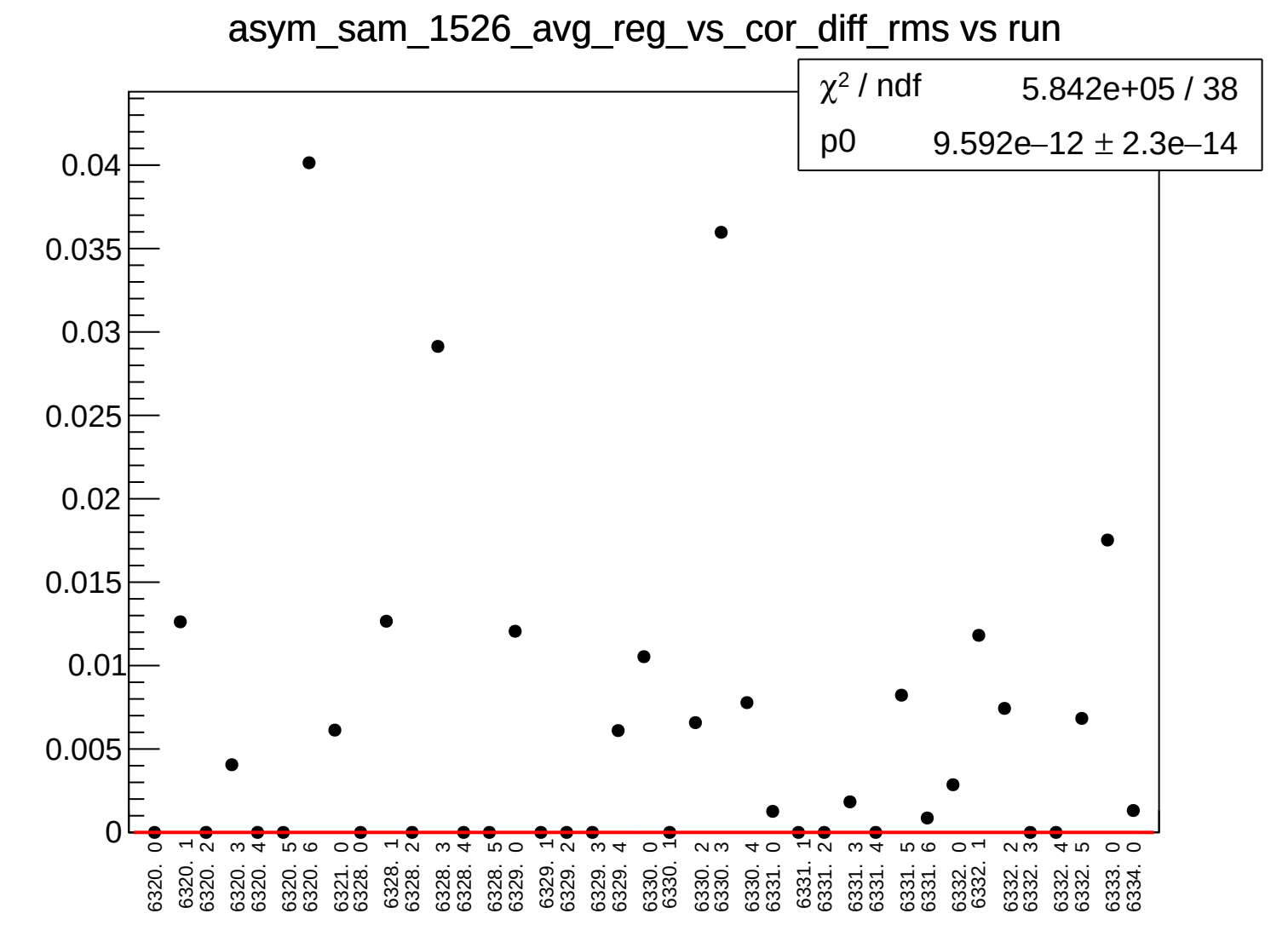

asym_sam_1526_avg_mean vs run
χ² / ndf 35.23 / 38
p0 759.1 ± 772.2
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

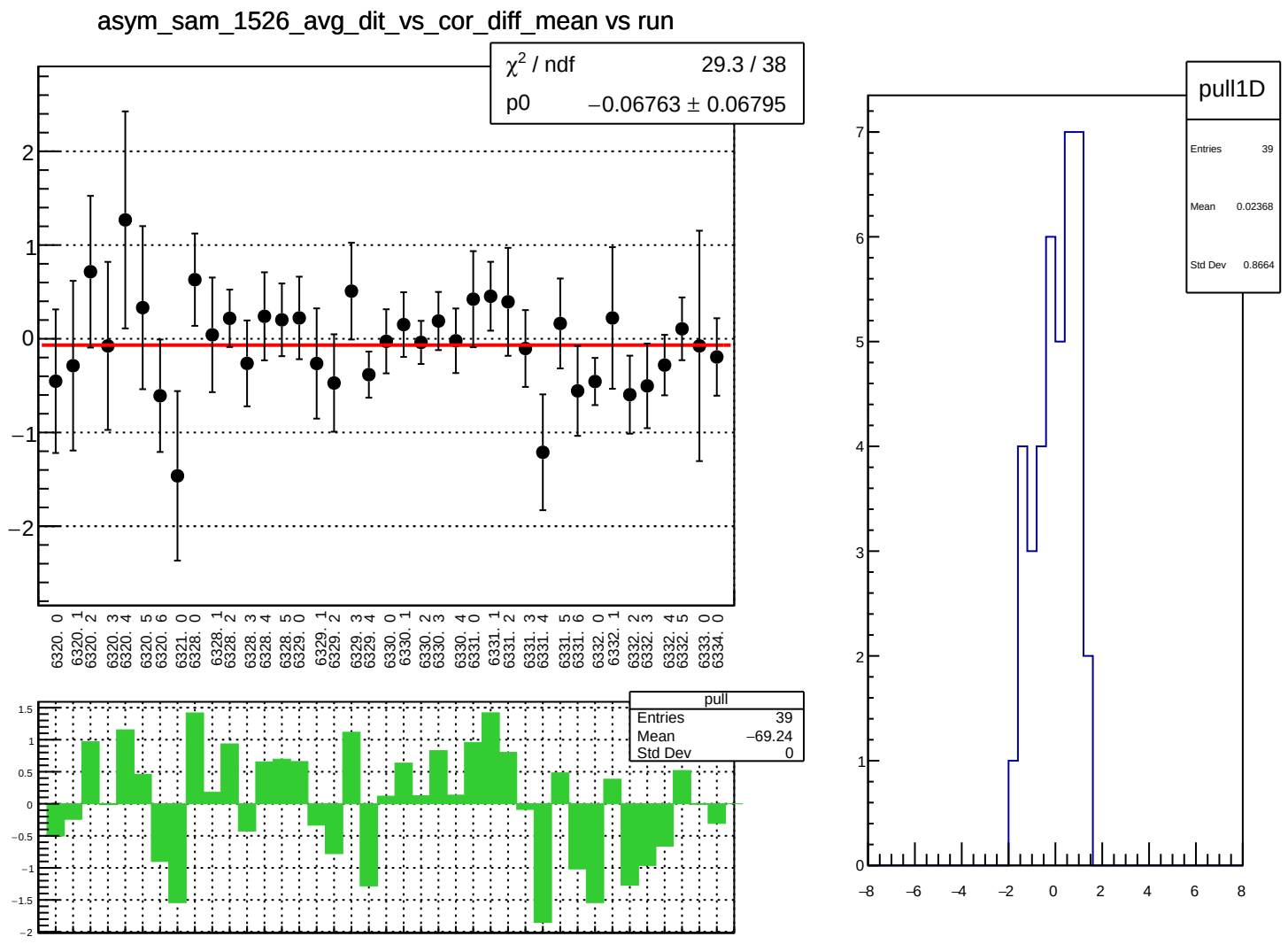

pull1D
Entries 39
Mean 0.04275
Std Dev 0.9495
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

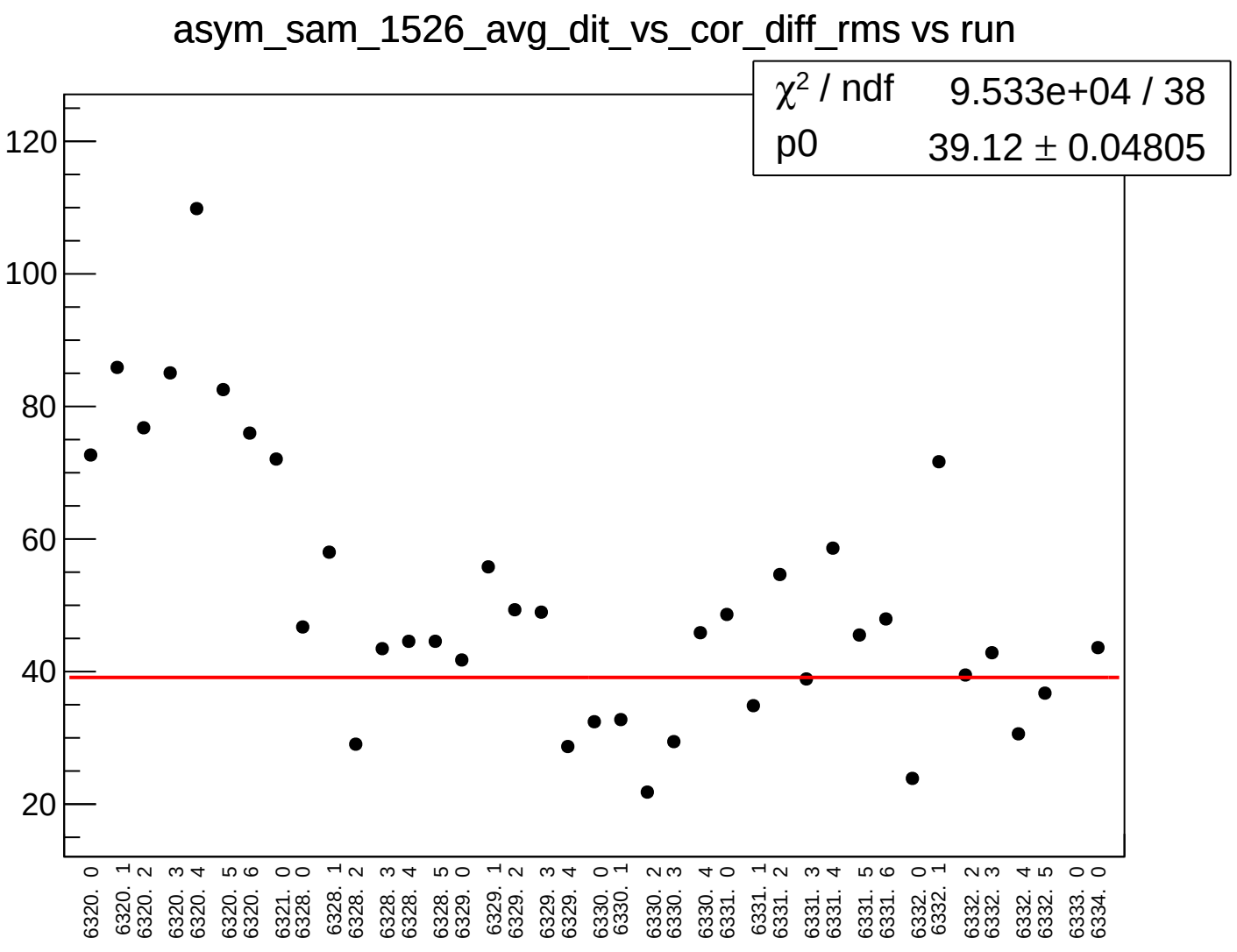

asym_sam_1526_avg_rms vs run
χ² / ndf 3.528e+04 / 38
p0 464.2 ± 0.546
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

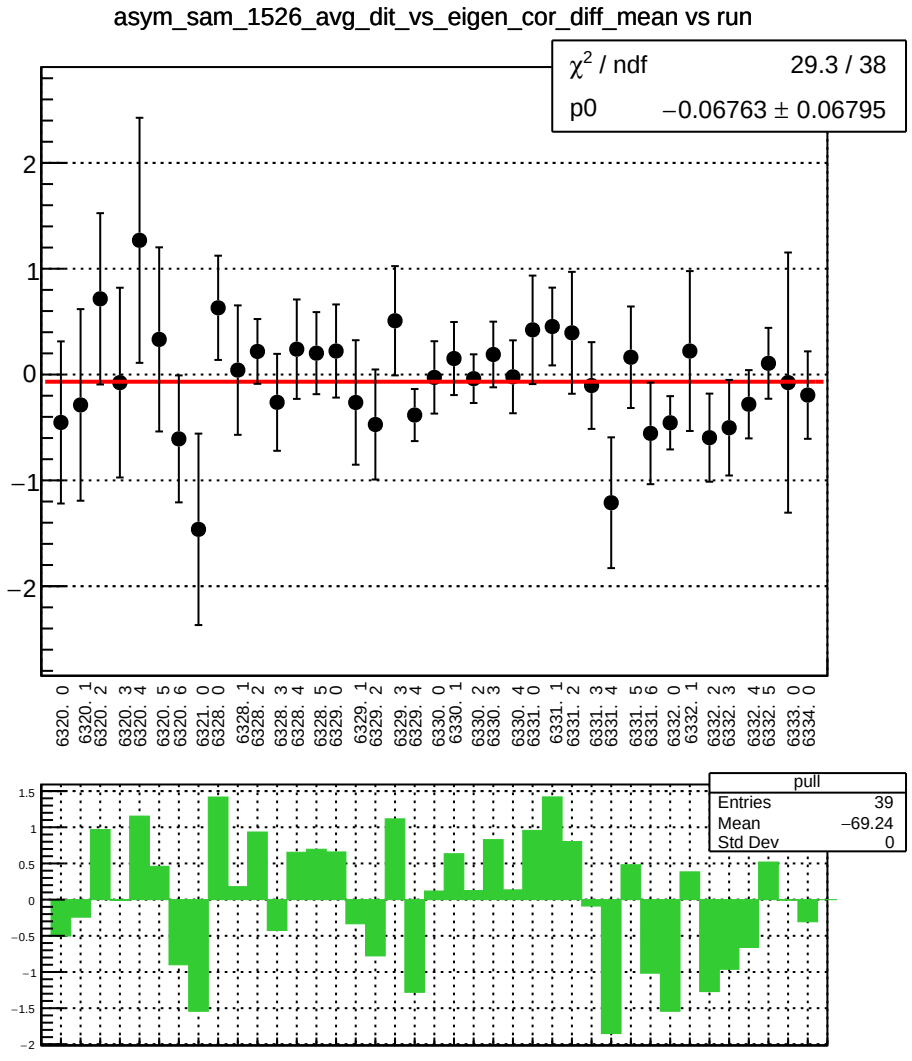

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 37.36 / 38
p0 3.335e−14 ± 3.253e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 14.71
Std Dev 12.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

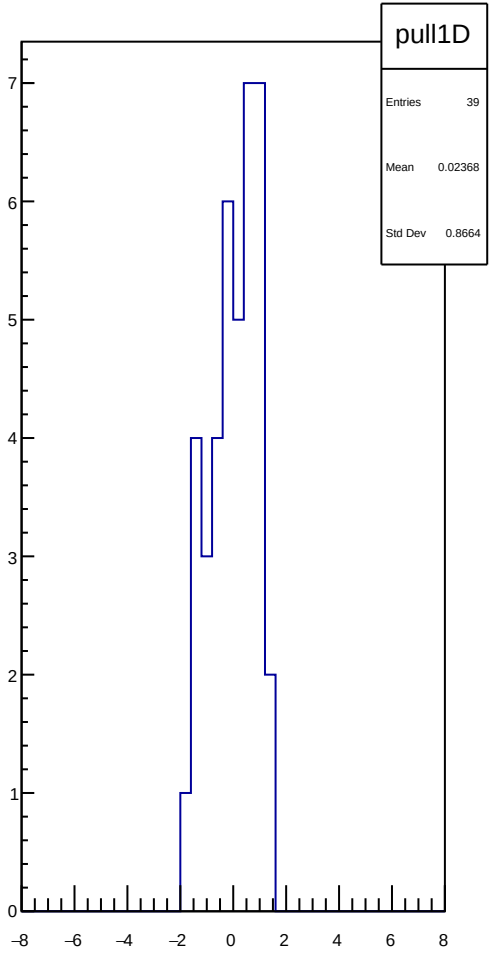

pull1D
Entries 39
Mean 0.1567
Std Dev 0.9662
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

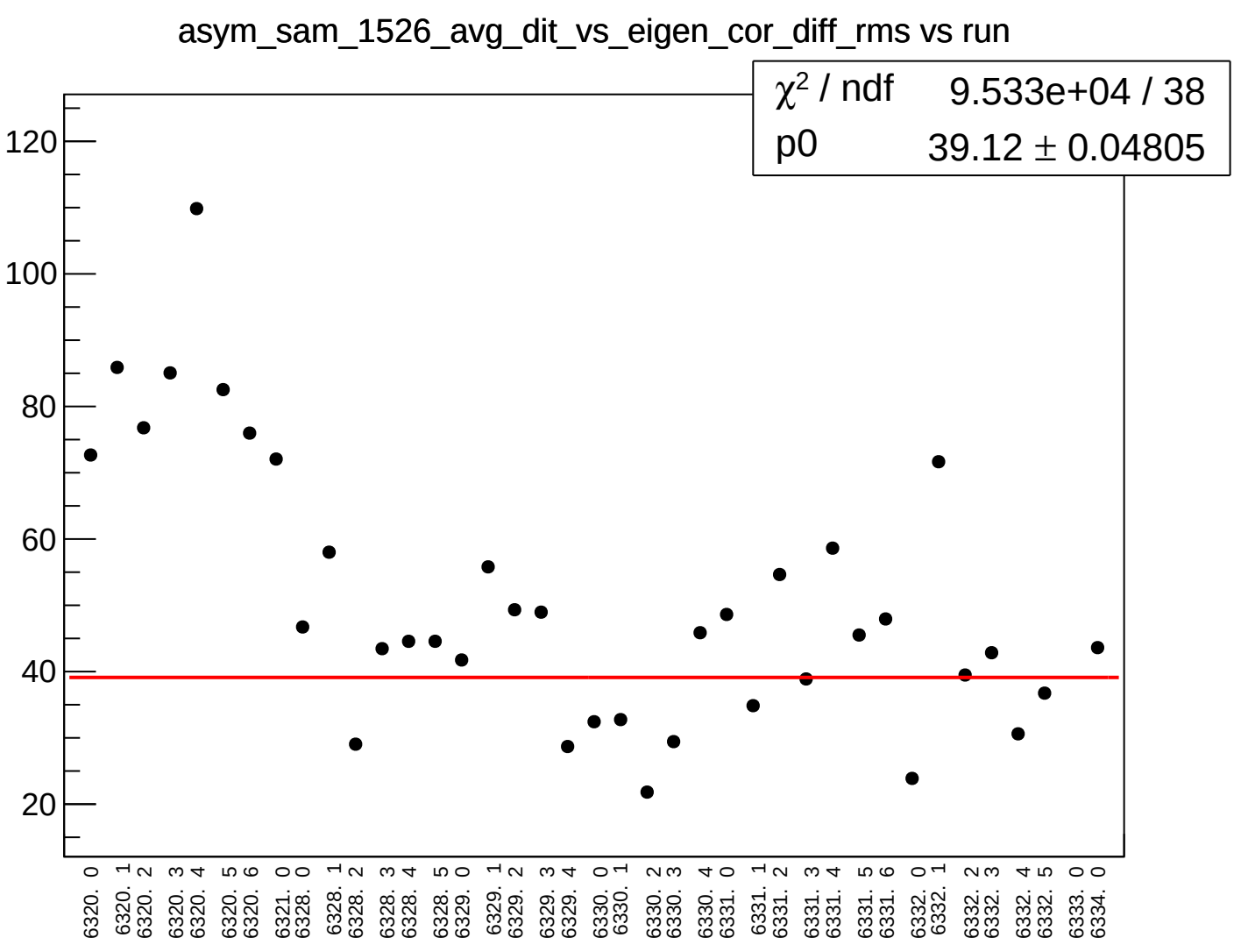

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.842e+05 / 38
p0 9.592e−12 ± 2.3e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

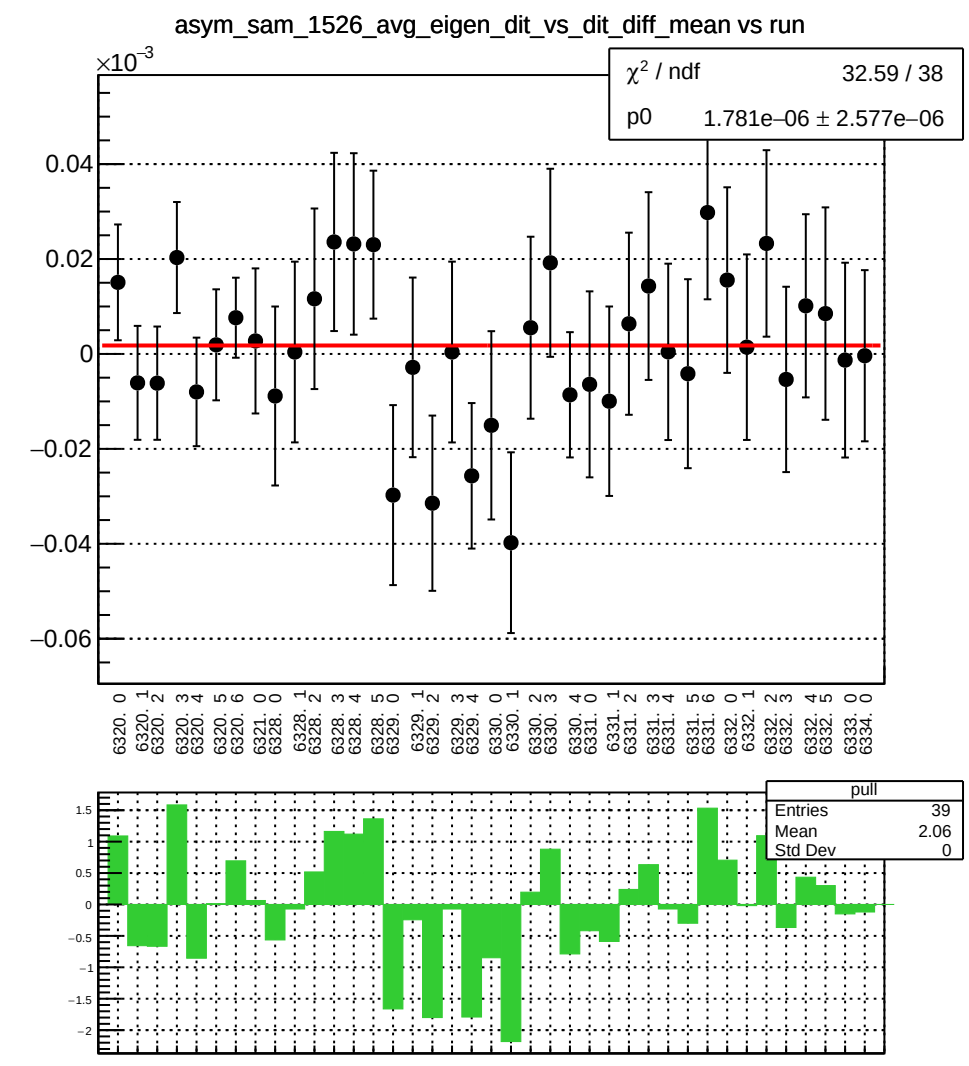

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.3 / 38
p0 −0.06763 ± 0.06795
pull
Entries 39
Mean −69.24
Std Dev 0
pull1D
Entries 39
Mean 0.02368
Std Dev 0.8664

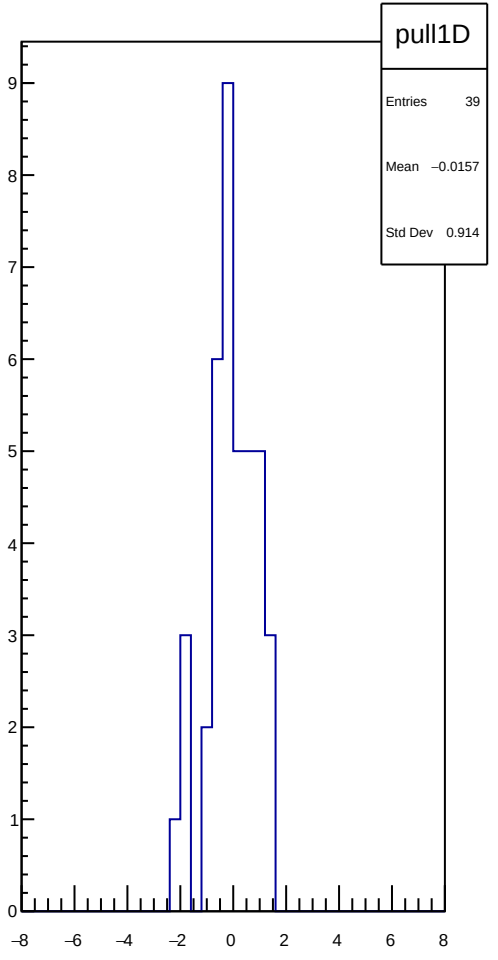

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.533e+04 / 38
p0 39.12 ± 0.04805
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

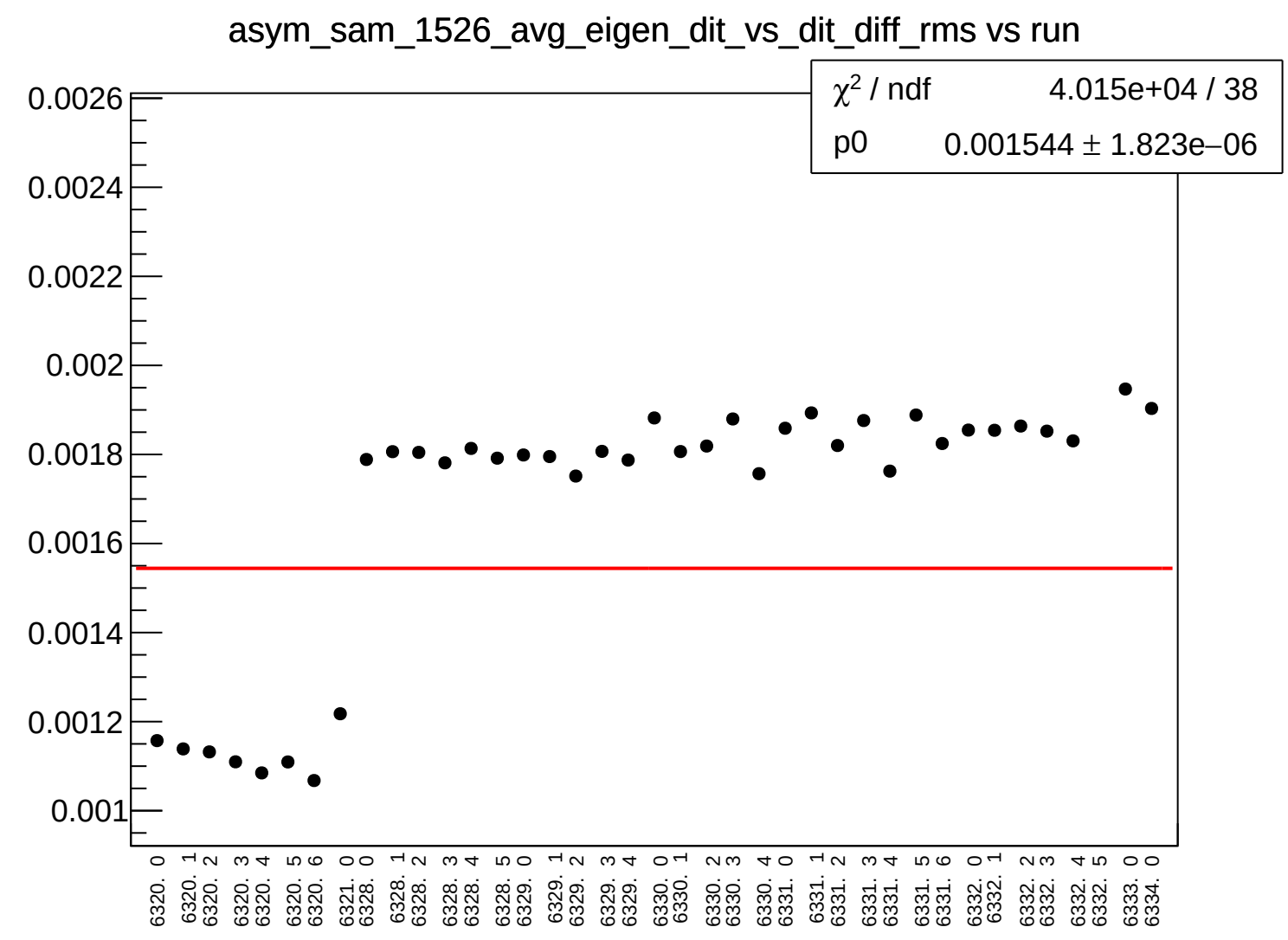

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.3 / 38
p0 −0.06763 ± 0.06795
pull
Entries 39
Mean −69.24
Std Dev 0

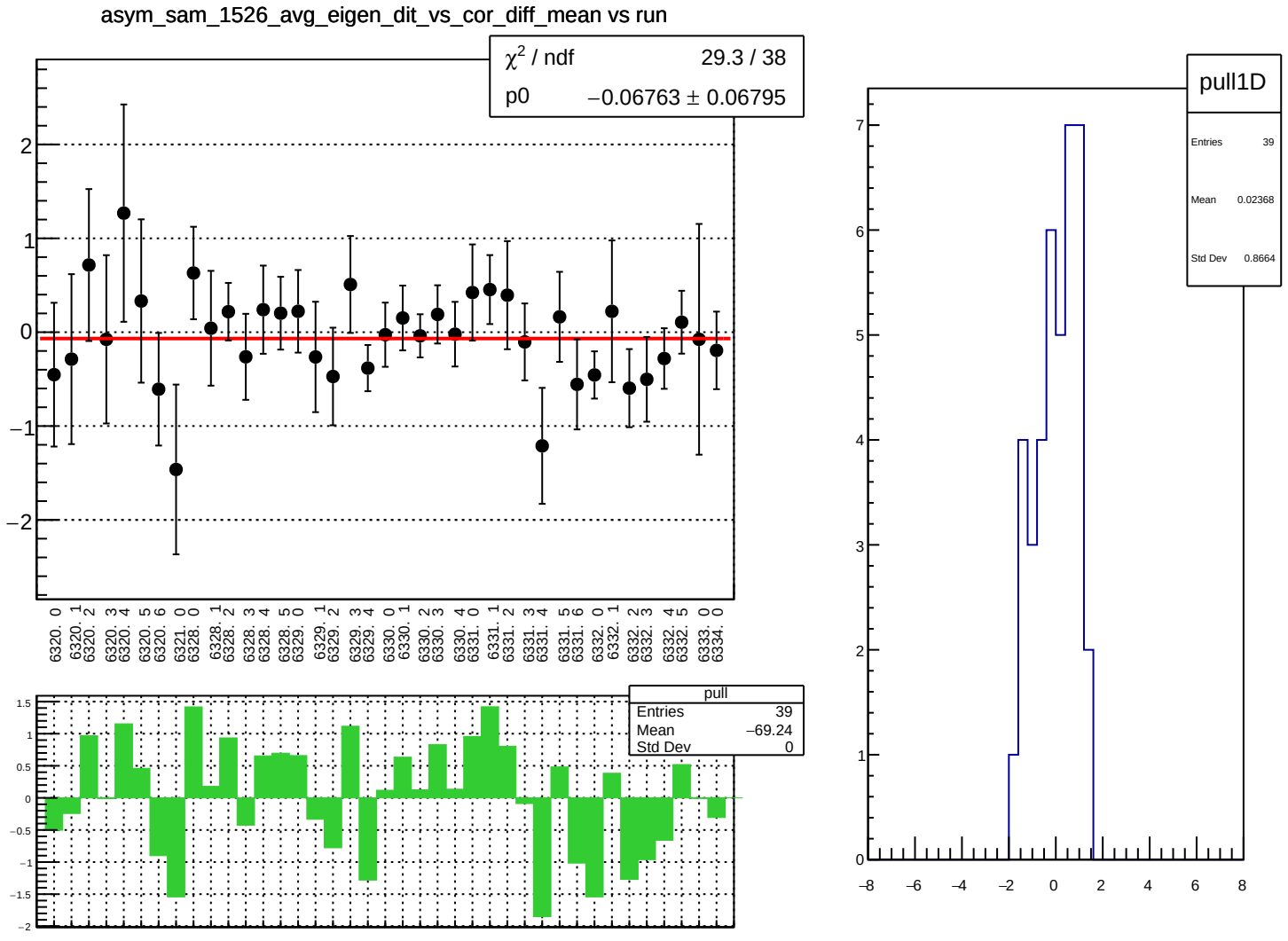

pull1D
Entries 39
Mean 0.02368
Std Dev 0.8664

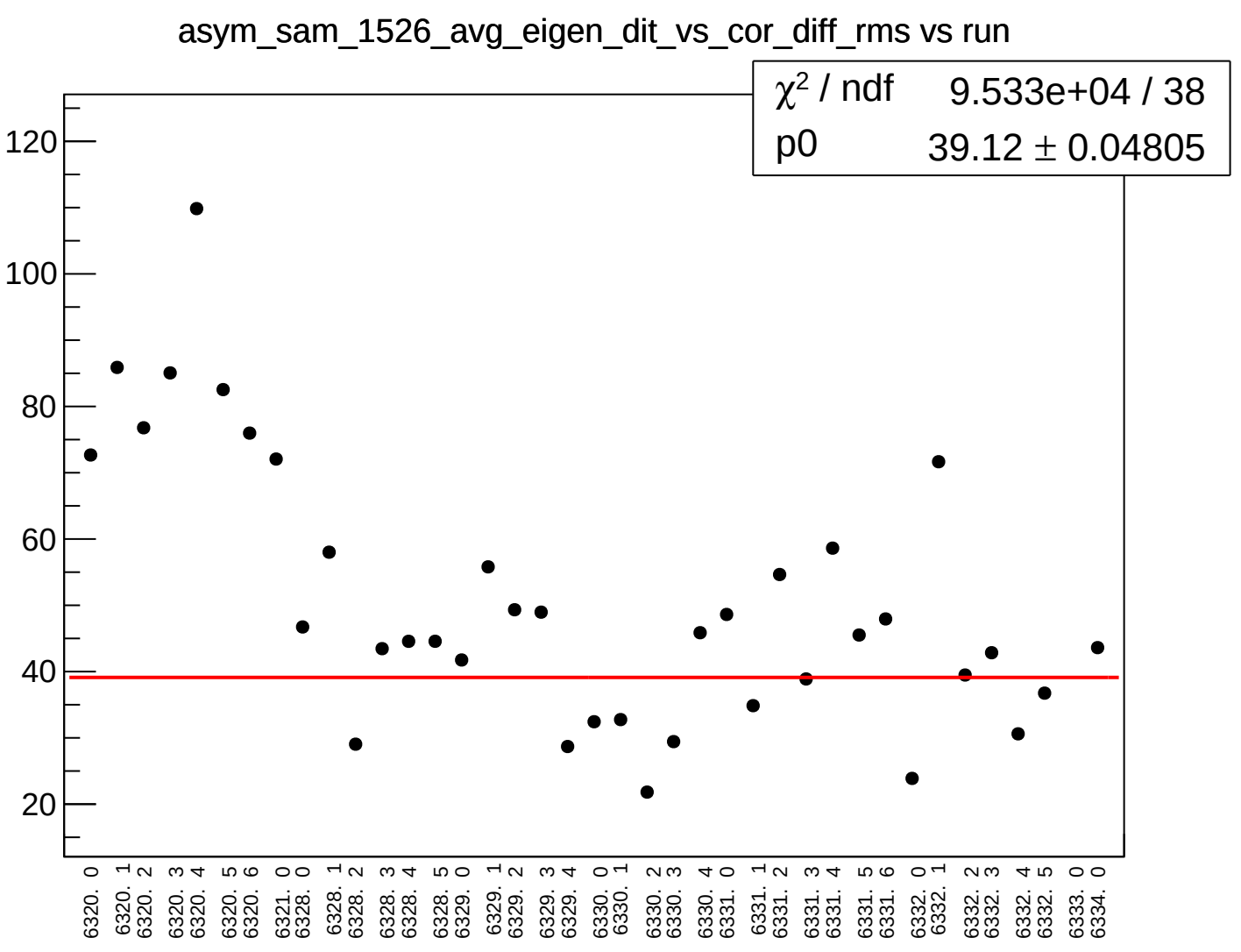

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.533e+04 / 38
p0 39.12 ± 0.04805
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.59 / 38
p0 1.781e−06 ± 2.577e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 2.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

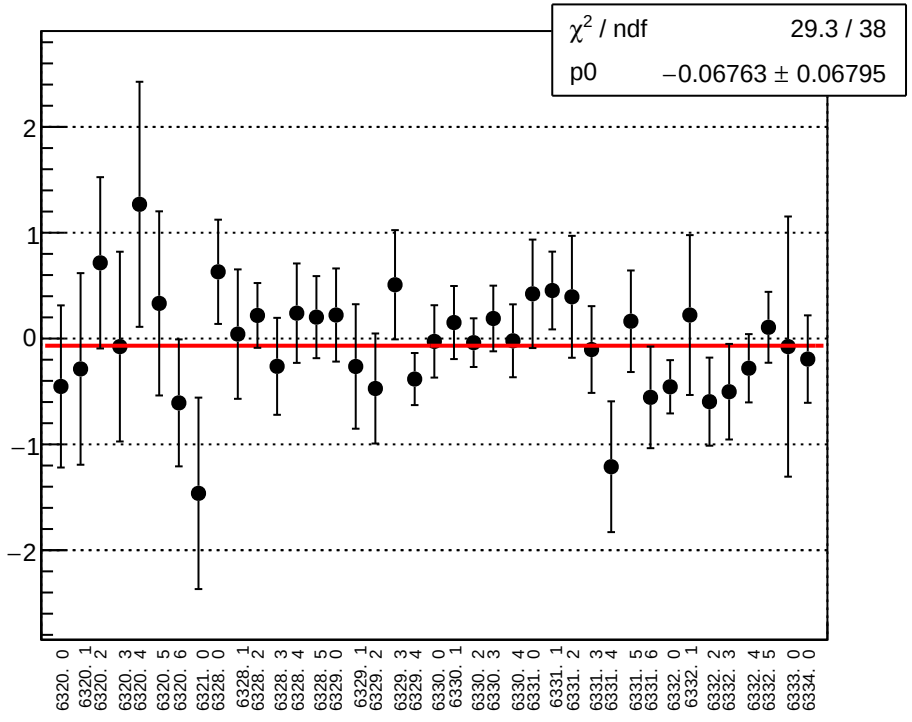

pull1D
Entries 39
Mean −0.0157
Std Dev 0.914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

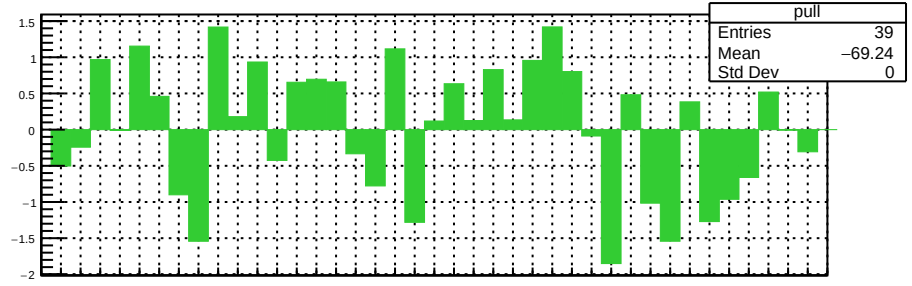

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.015e+04 / 38
p0 0.001544 ± 1.823e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

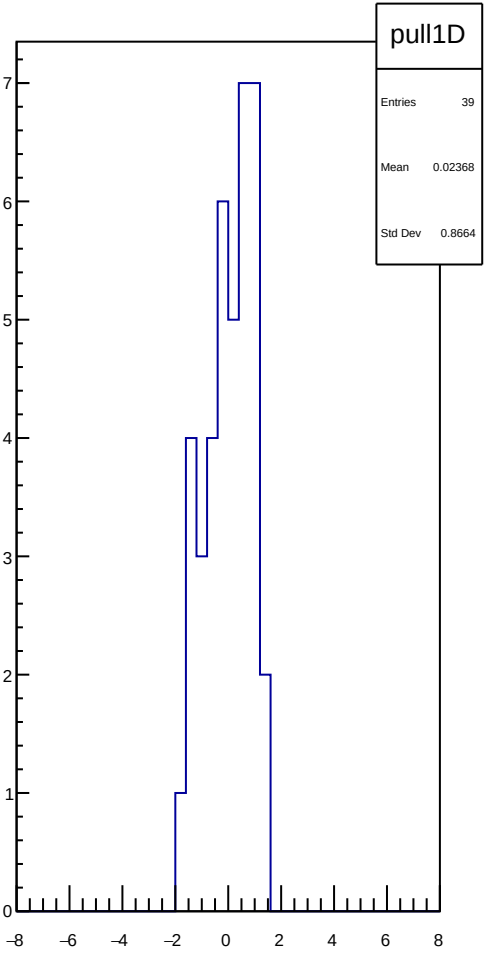

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.3 / 38
p0 −0.06763 ± 0.06795
pull
Entries 39
Mean −69.24
Std Dev 0
pull1D
Entries 39
Mean 0.02368
Std Dev 0.8664

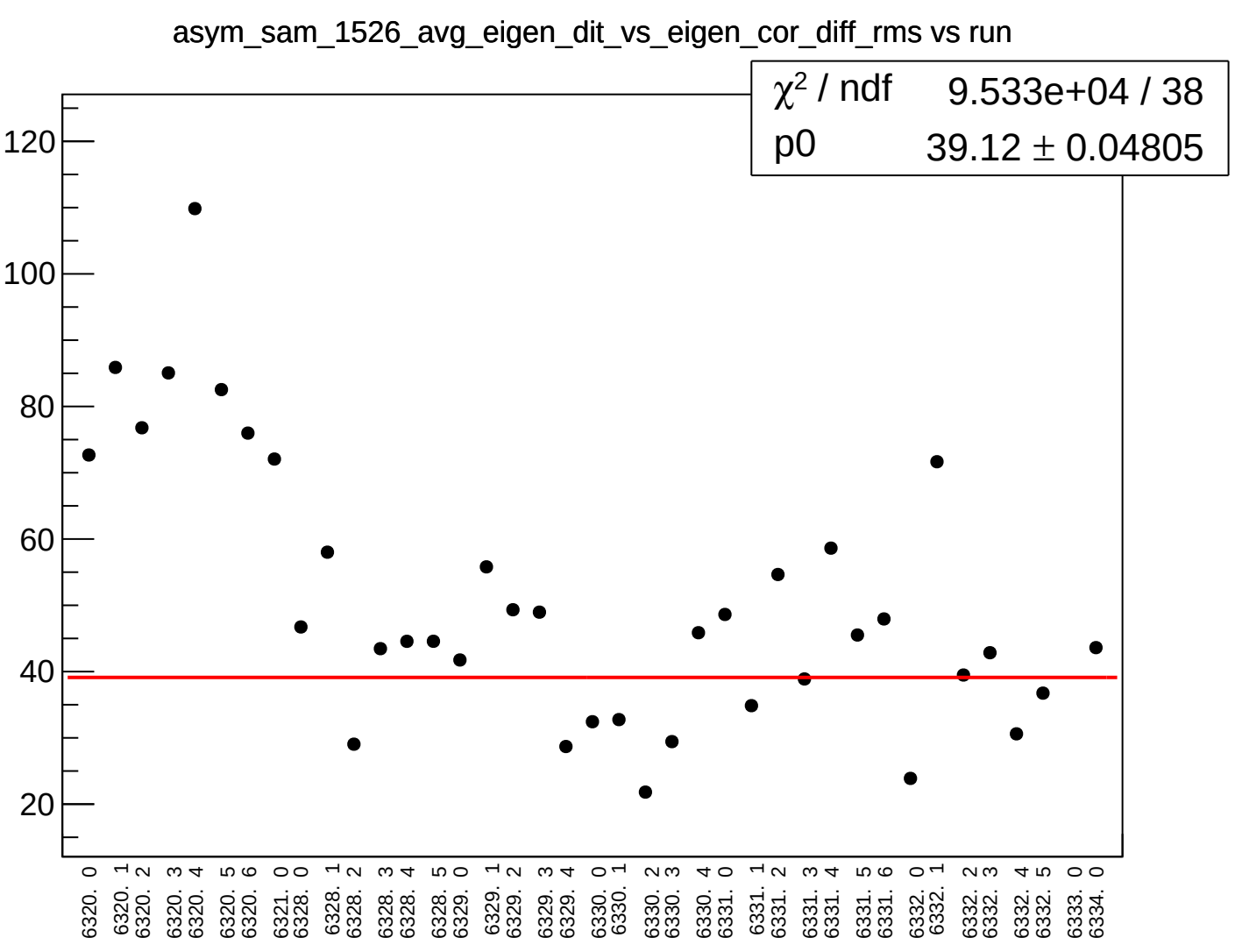

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.533e+04 / 38
p0 39.12 ± 0.04805
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

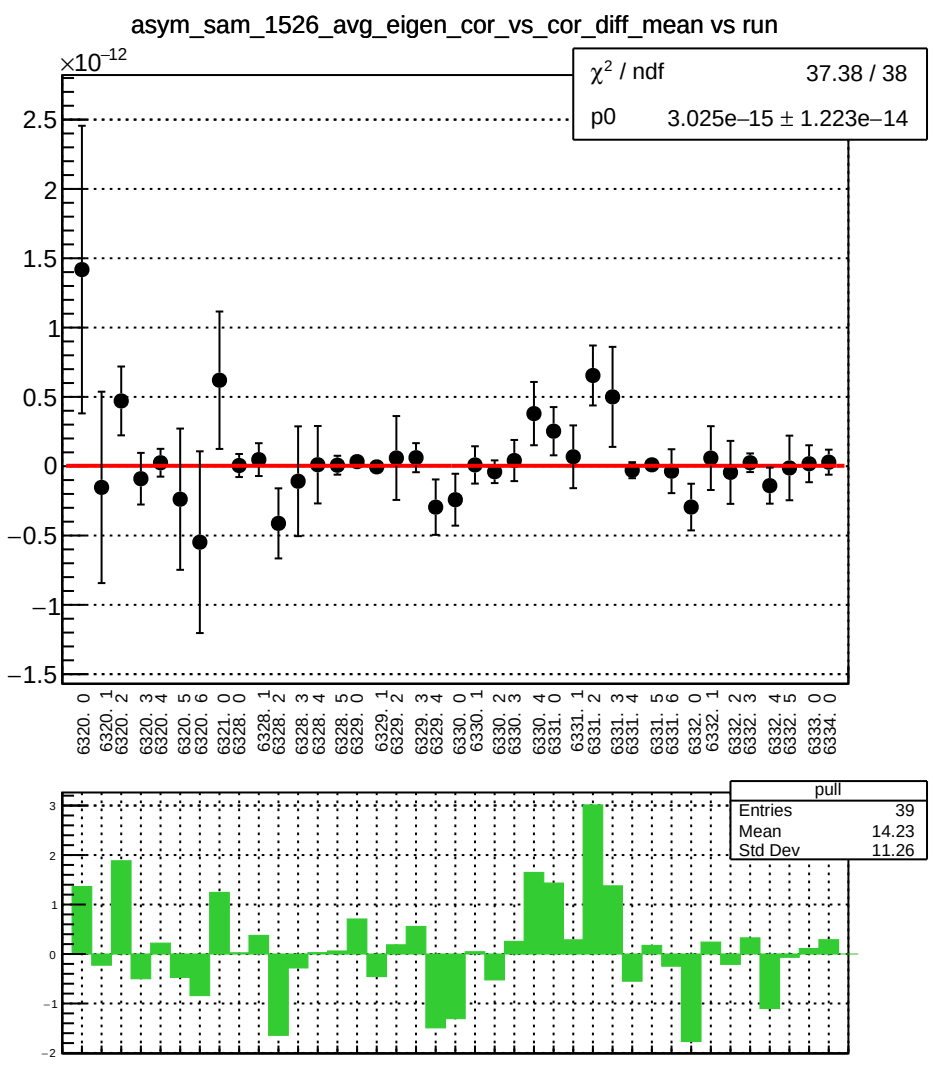
asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

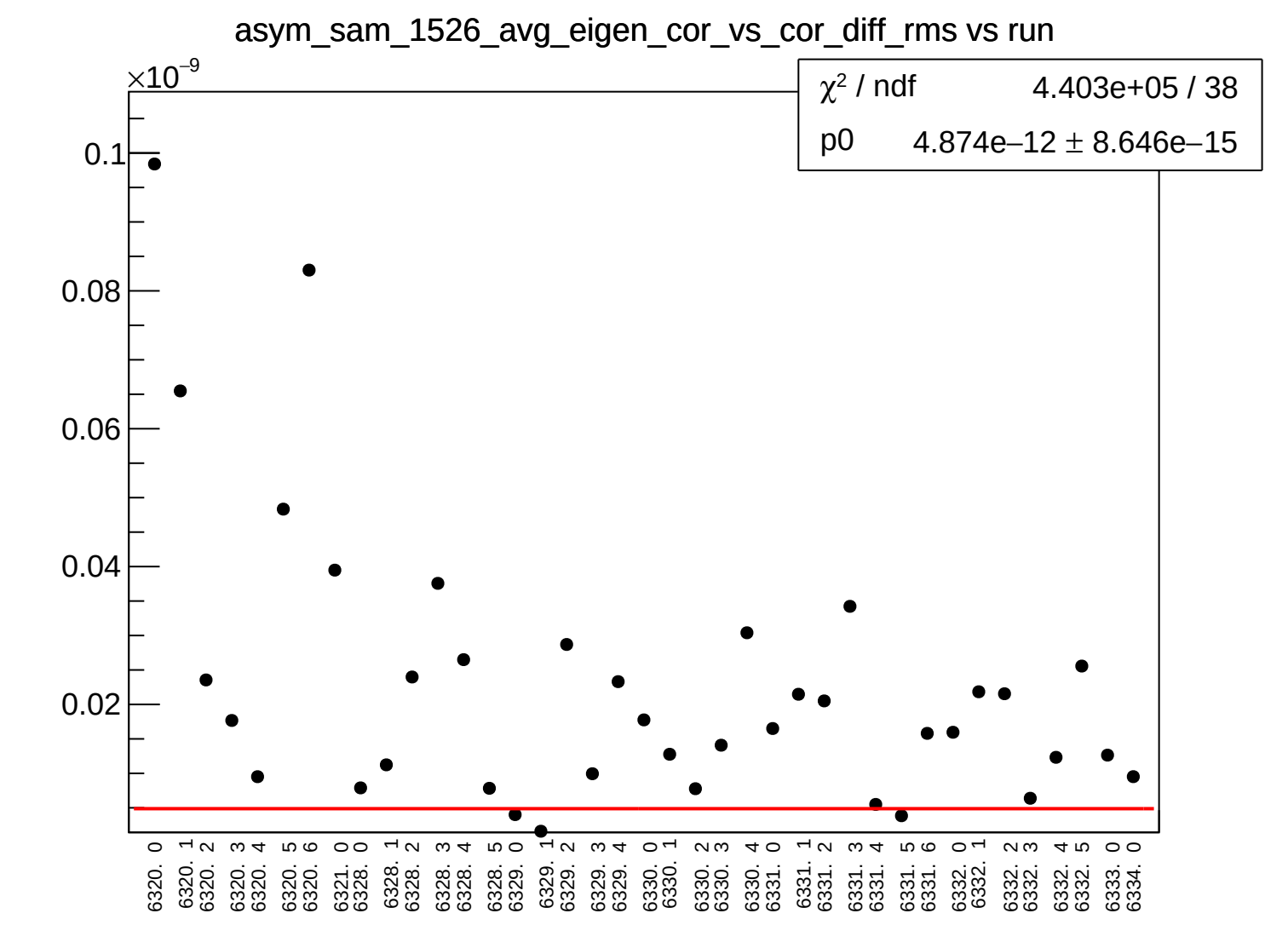


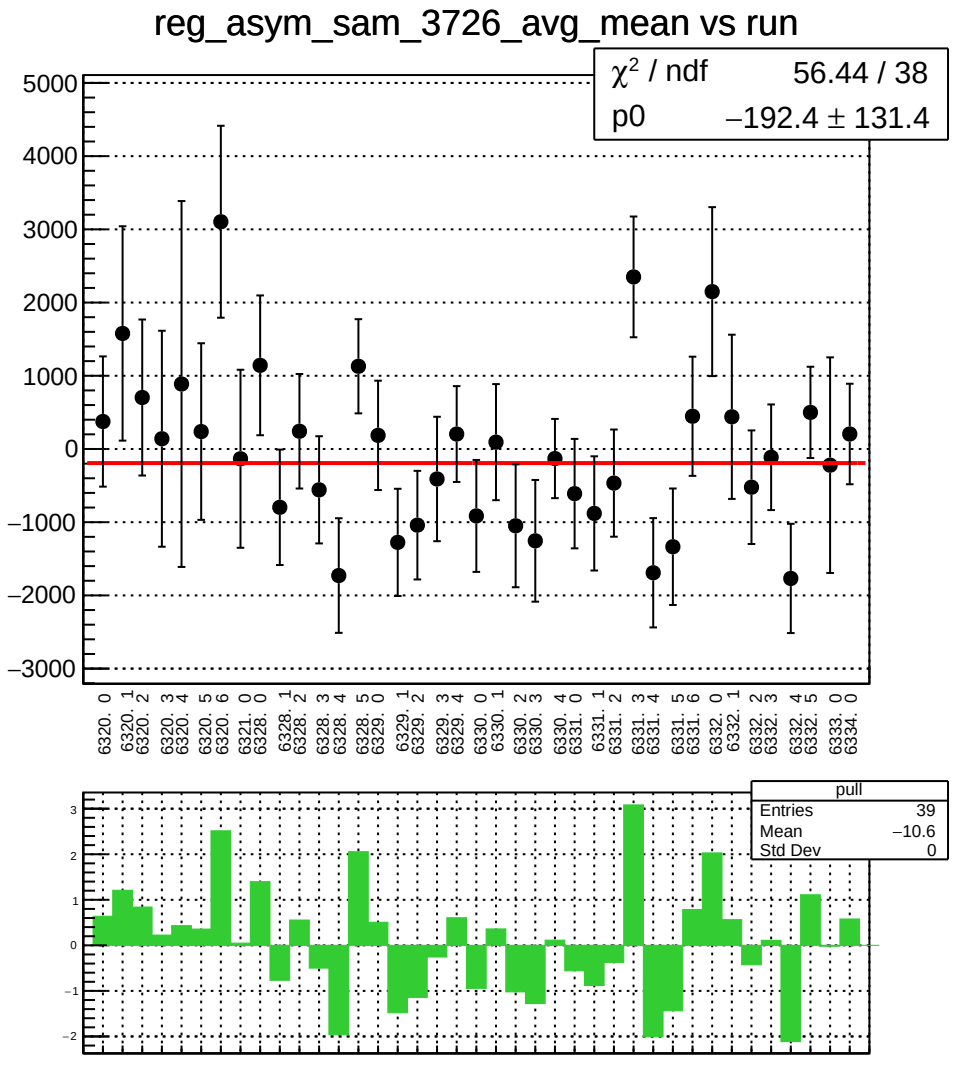


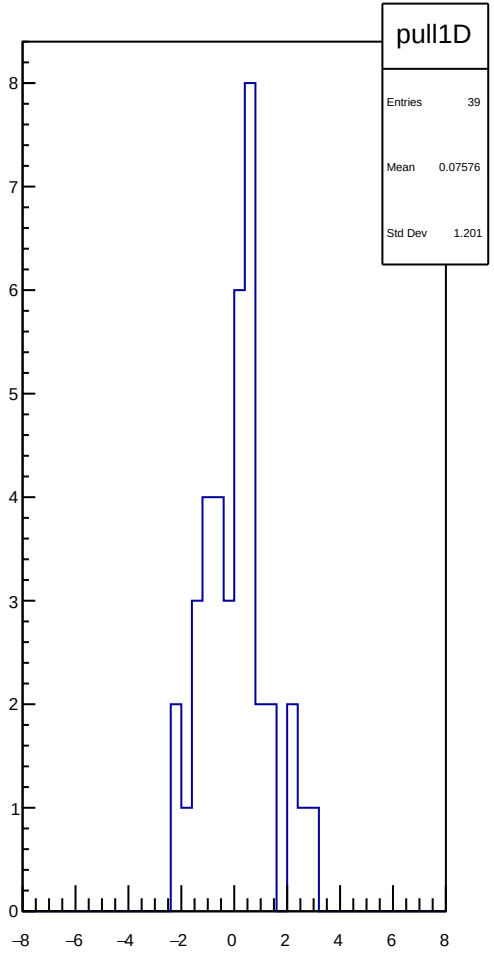


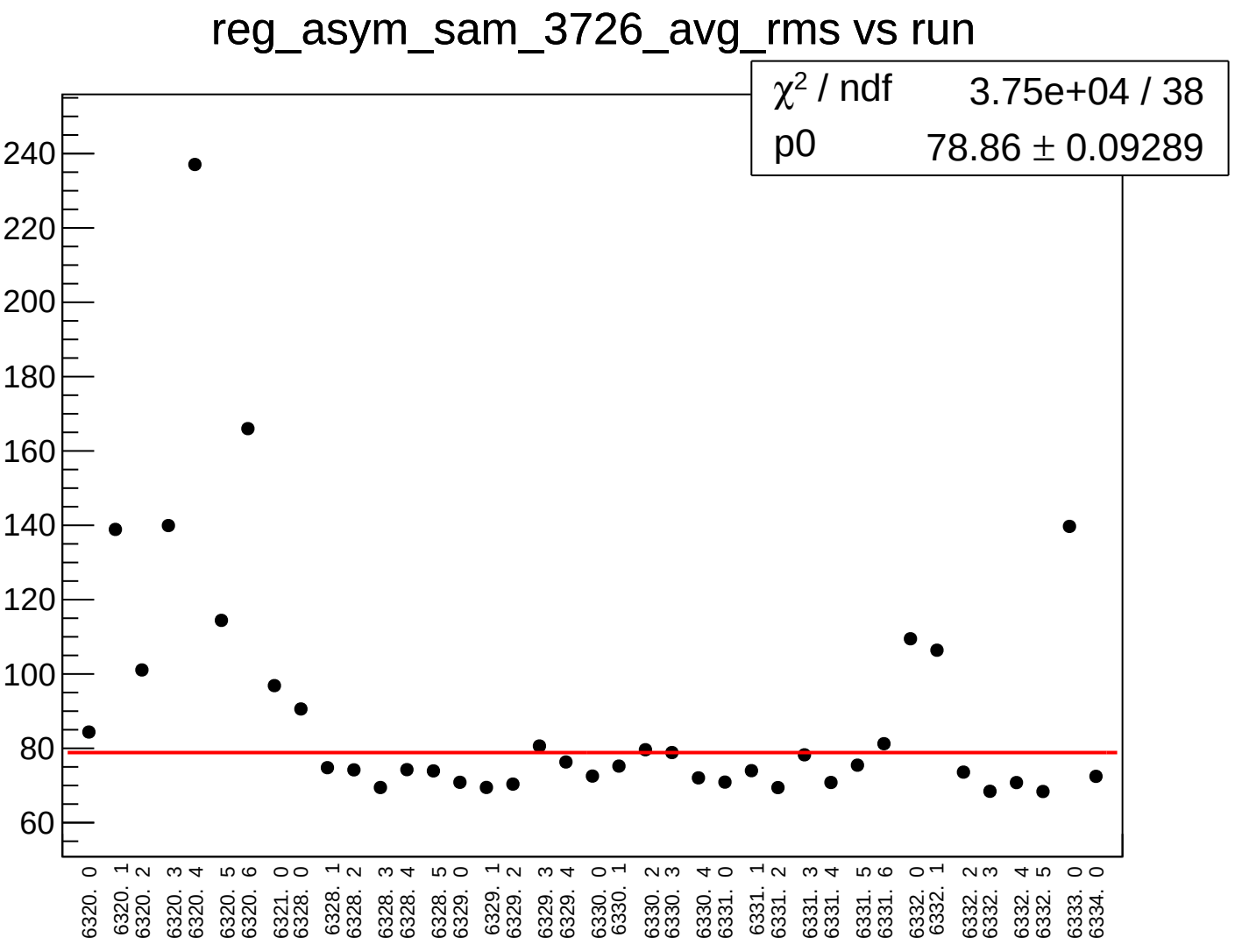

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.533e+04 / 38
p0 39.12 ± 0.04805
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

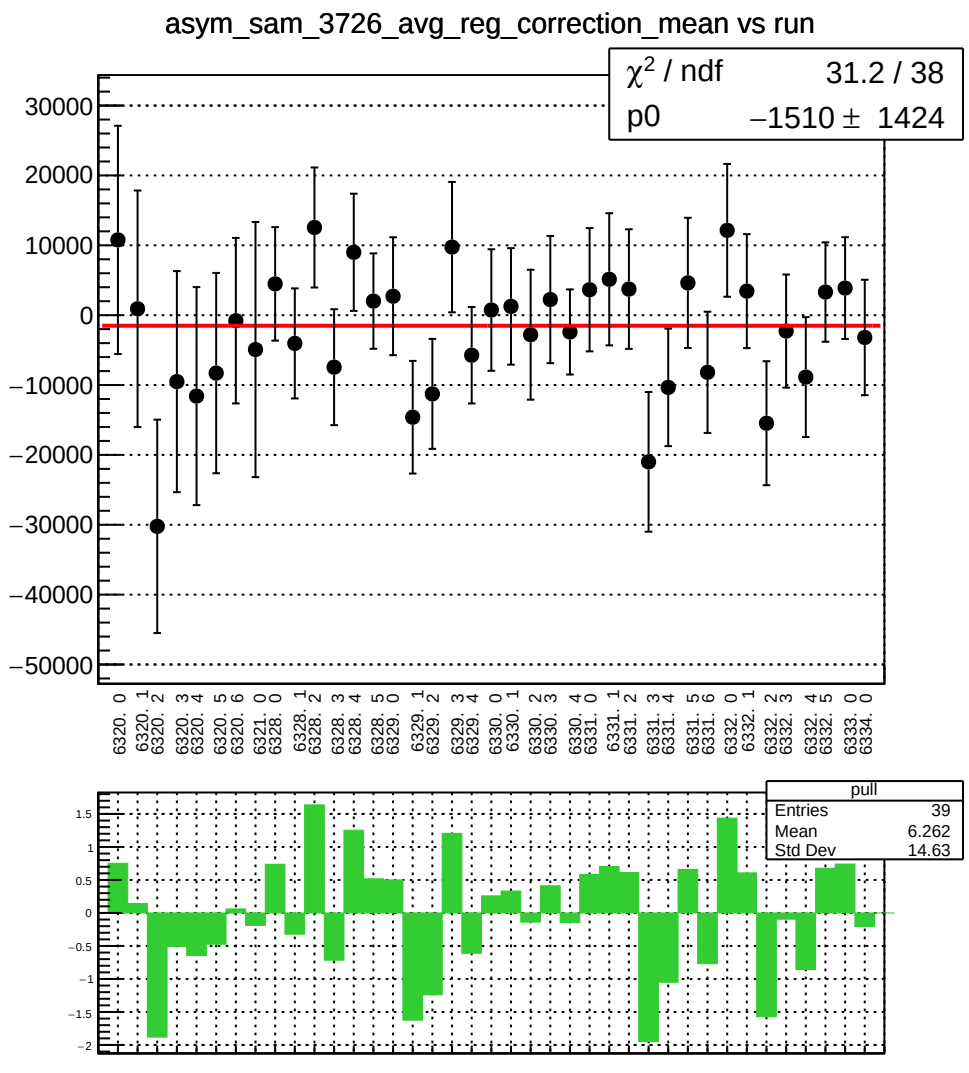

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.38 / 38
p0 3.025e−15 ± 1.223e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 14.23
Std Dev 11.26
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1071
Std Dev 0.9732
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

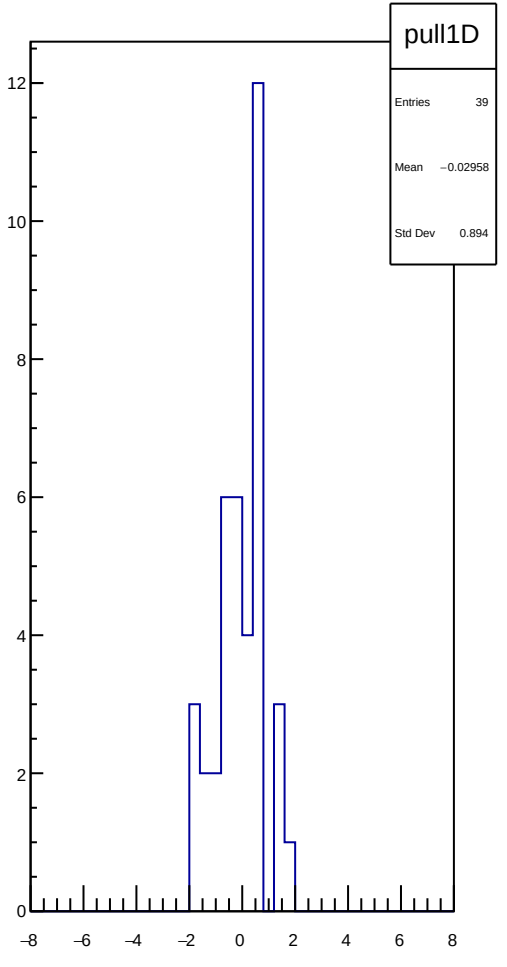

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.403e+05 / 38
p0 4.874e−12 ± 8.646e−15
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

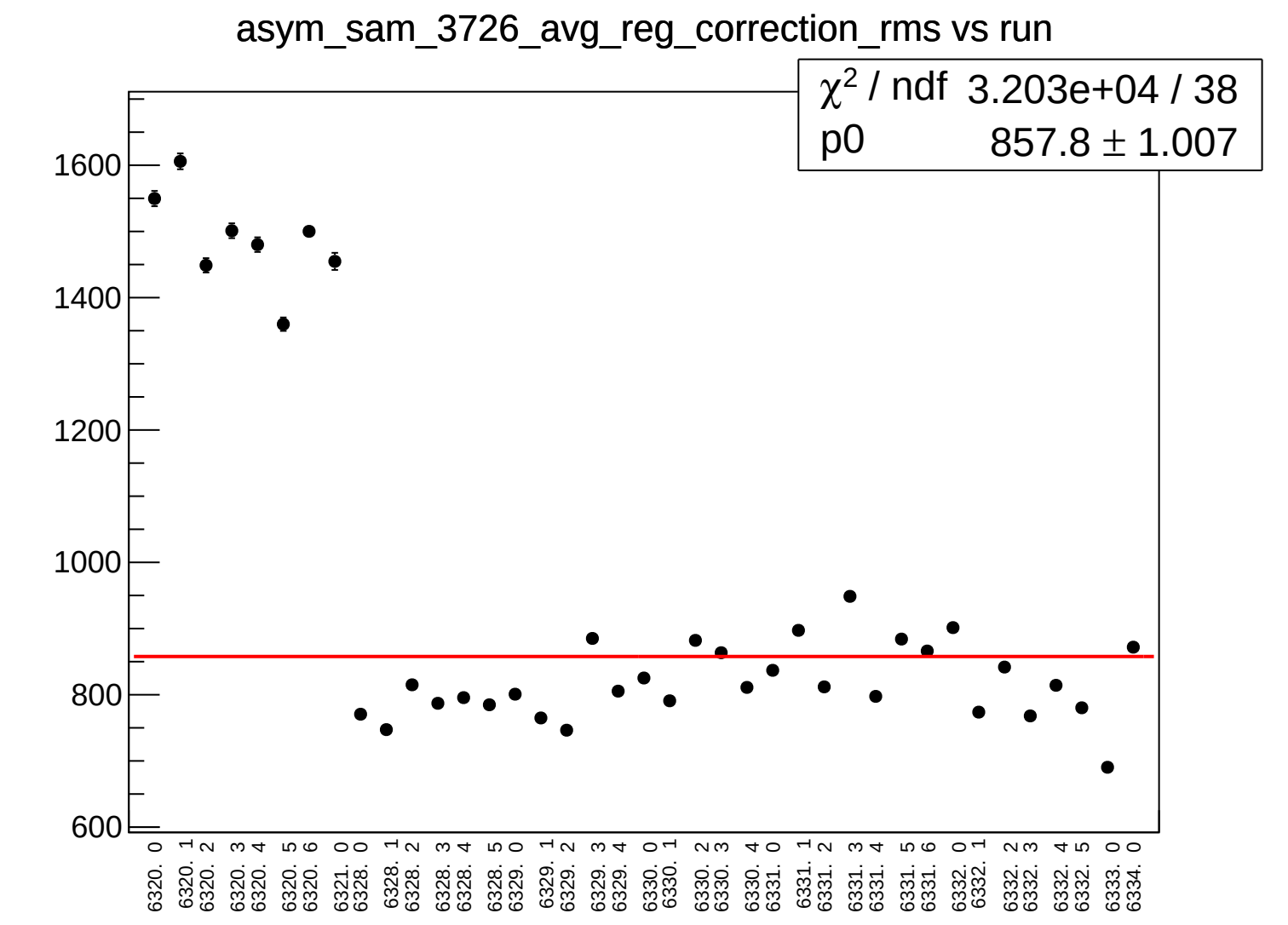

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 56.44 / 38
p0 −192.4 ± 131.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.6
Std Dev 0
3
2
1
0
−1
−2

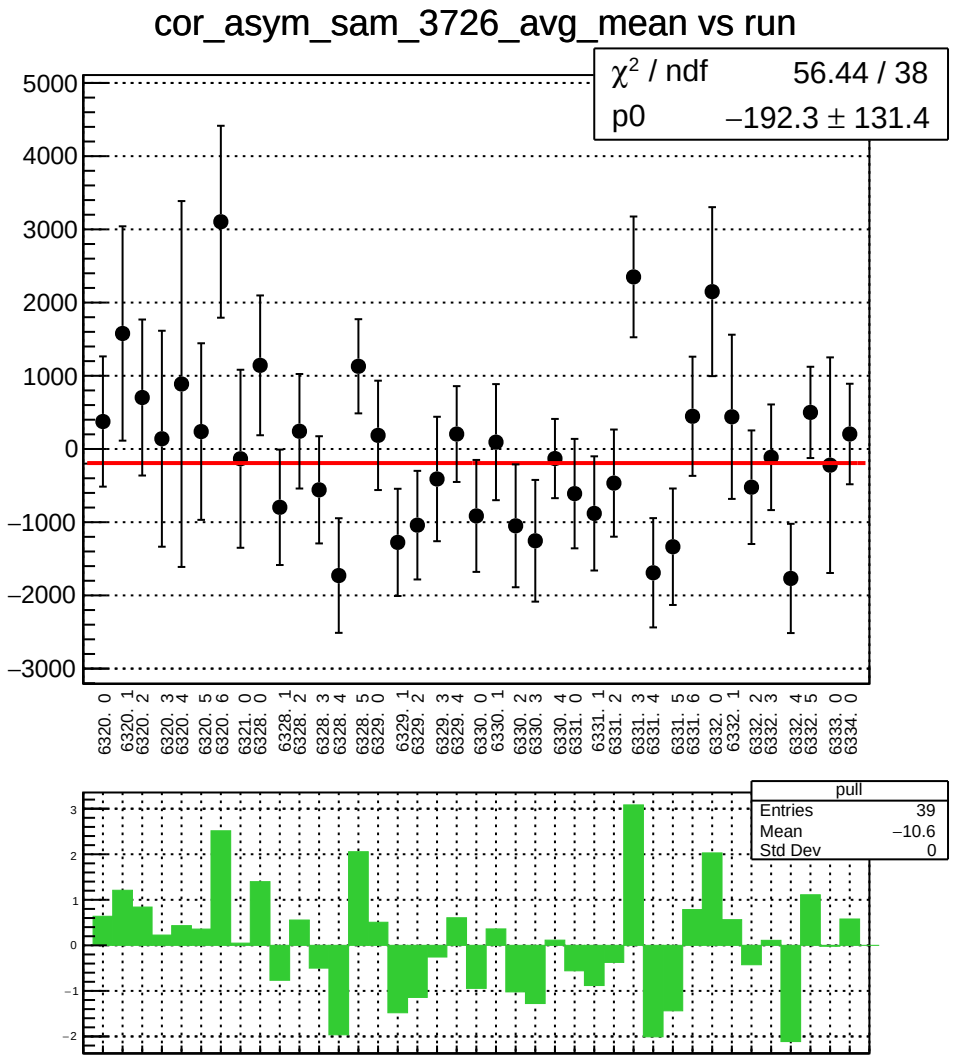

pull1D
Entries 39
Mean 0.07576
Std Dev 1.201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

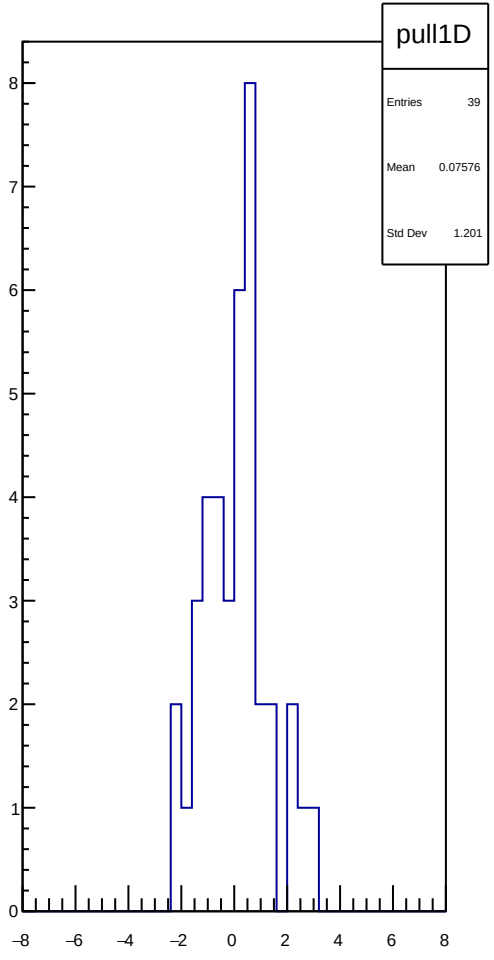

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.75e+04 / 38
p0 78.86 ± 0.09289
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

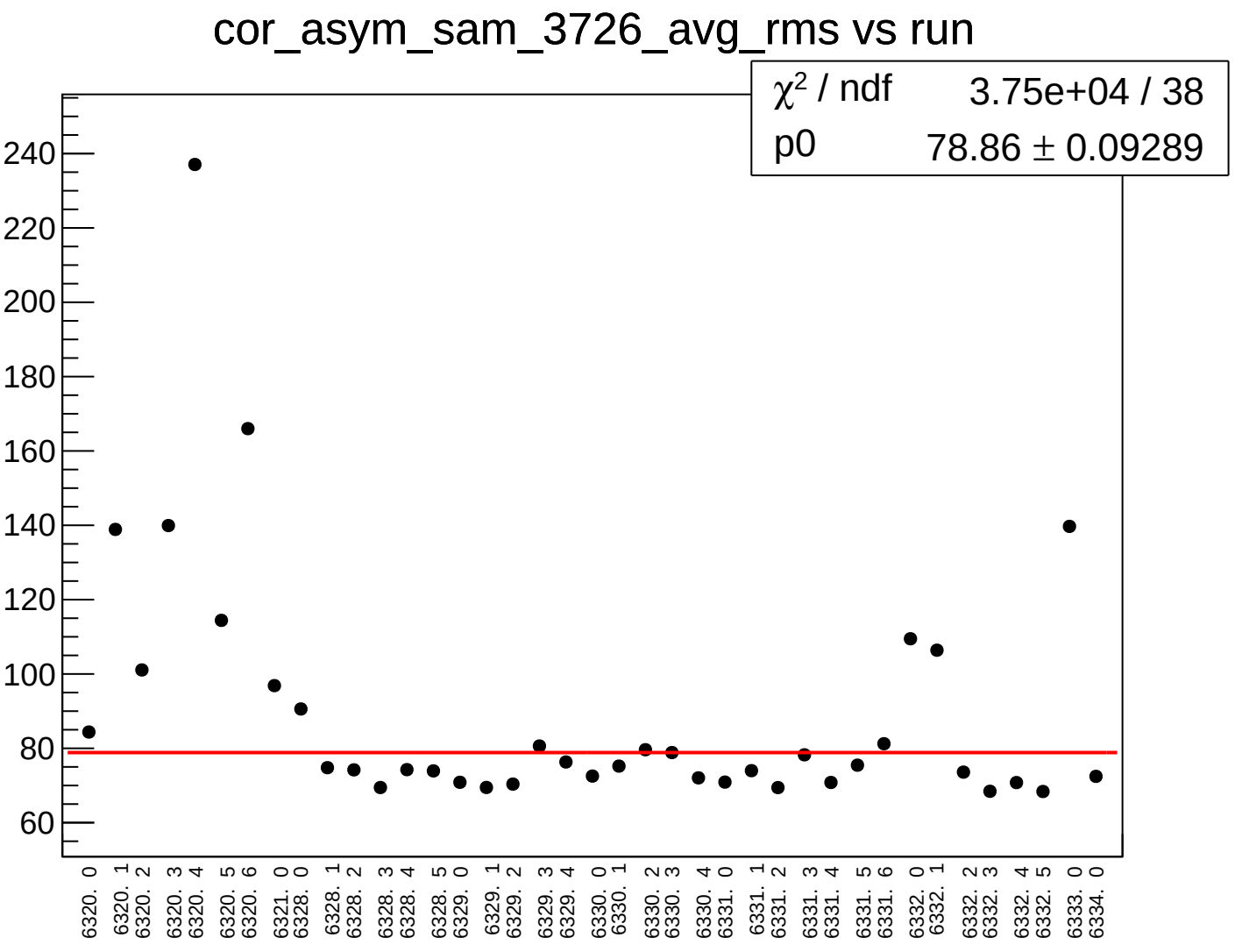

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 31.2 / 38
p0 −1510 ± 1424
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.262
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

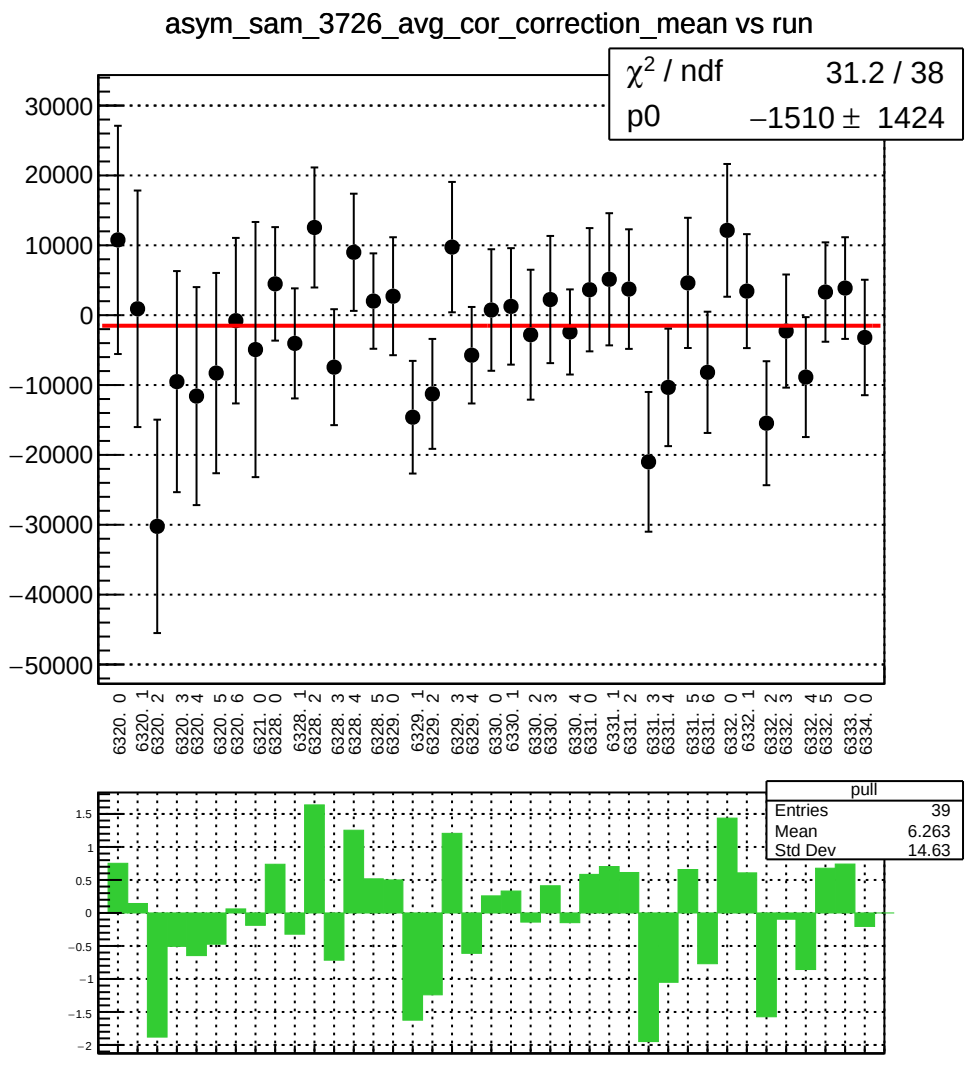

pull1D
Entries 39
Mean −0.02958
Std Dev 0.894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

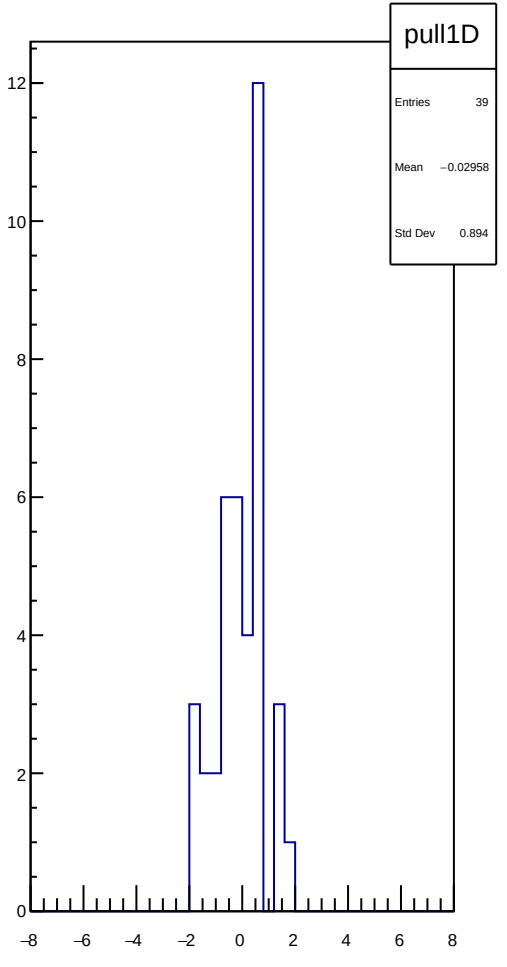

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3.203e+04 / 38
p0 857.8 ± 1.007
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

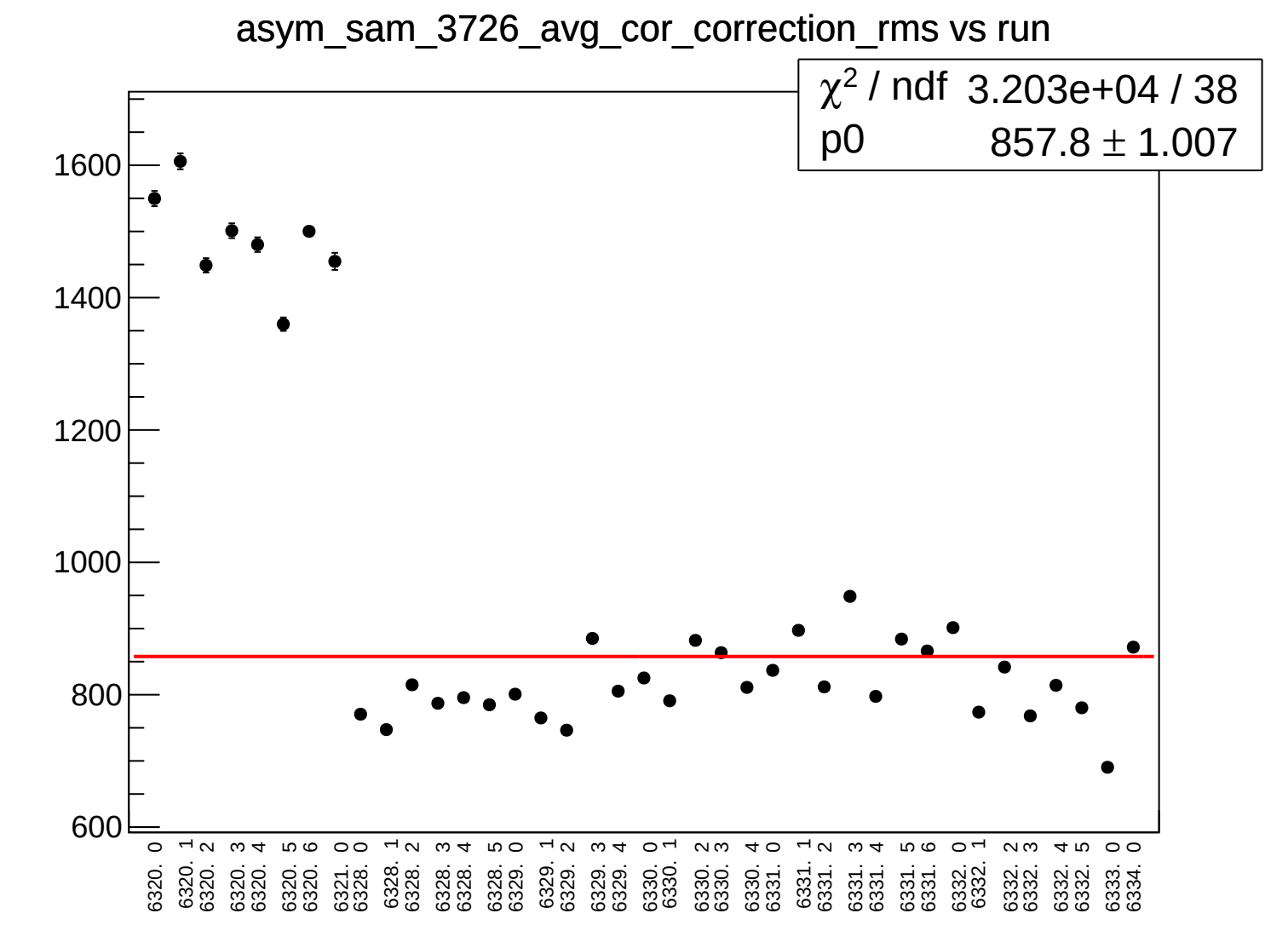

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 56.44 / 38
p0 −192.3 ± 131.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.6
Std Dev 0
3
2
1
0
−1
−2

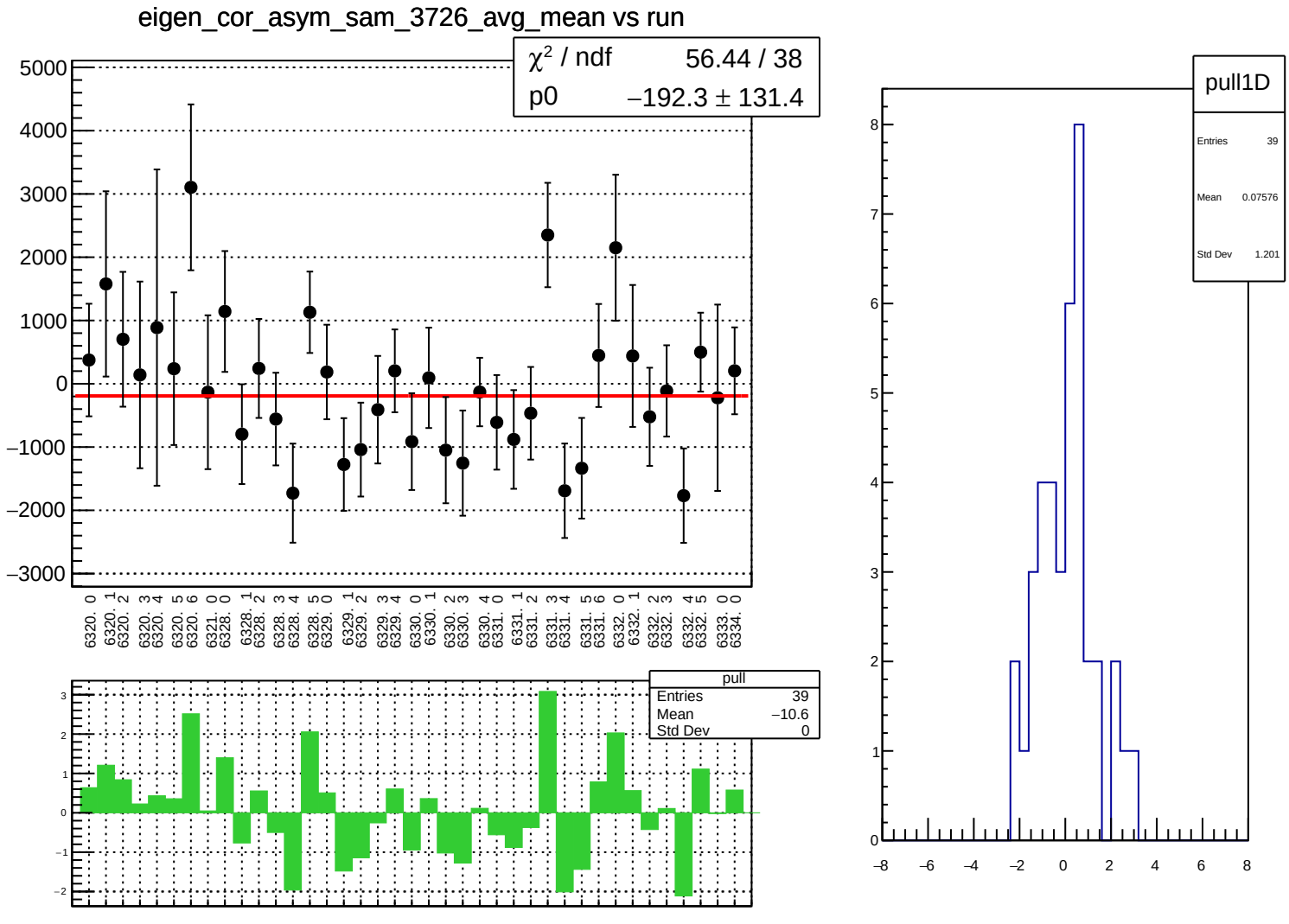

pull1D
Entries 39
Mean 0.07576
Std Dev 1.201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

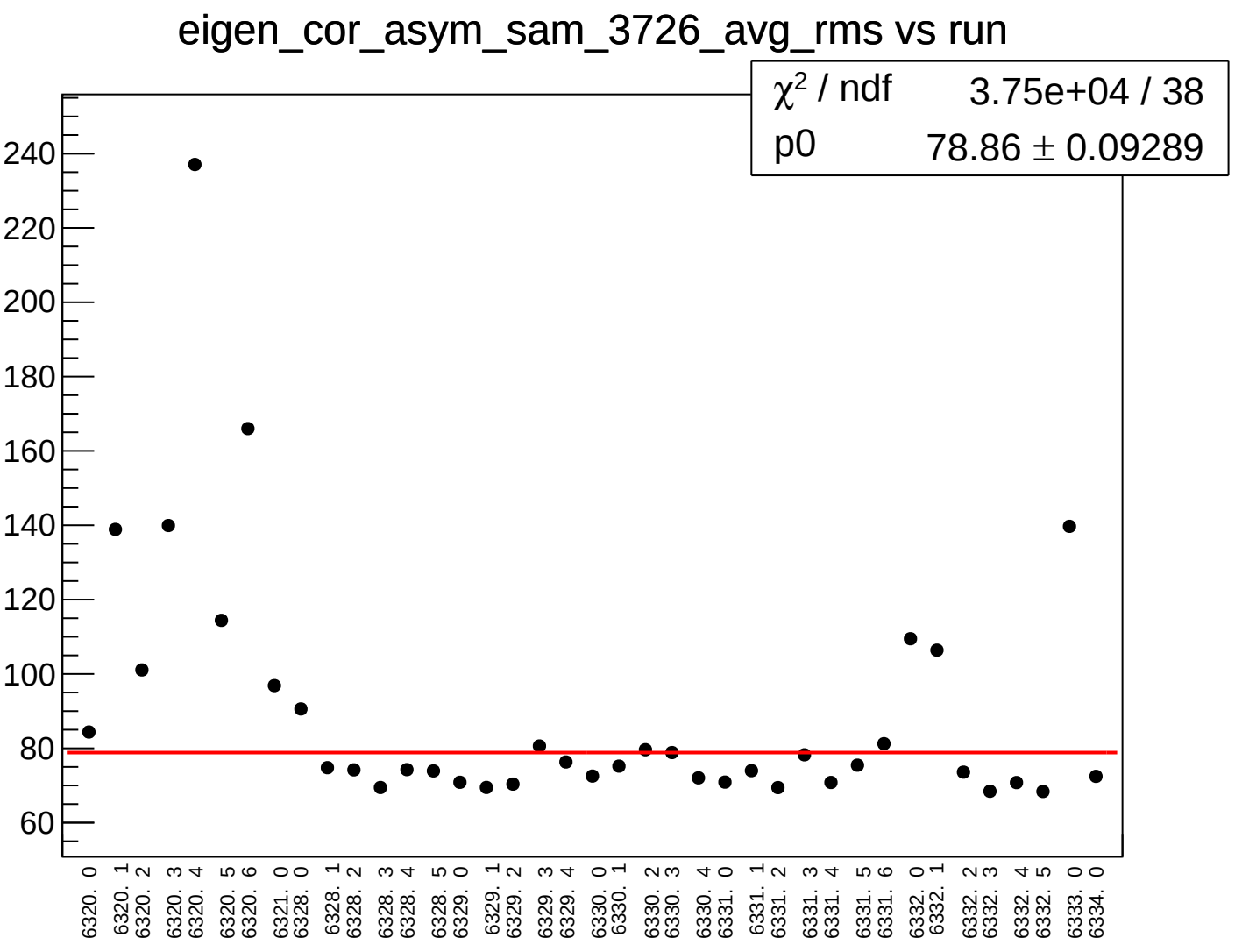

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.75e+04 / 38
p0 78.86 ± 0.09289
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

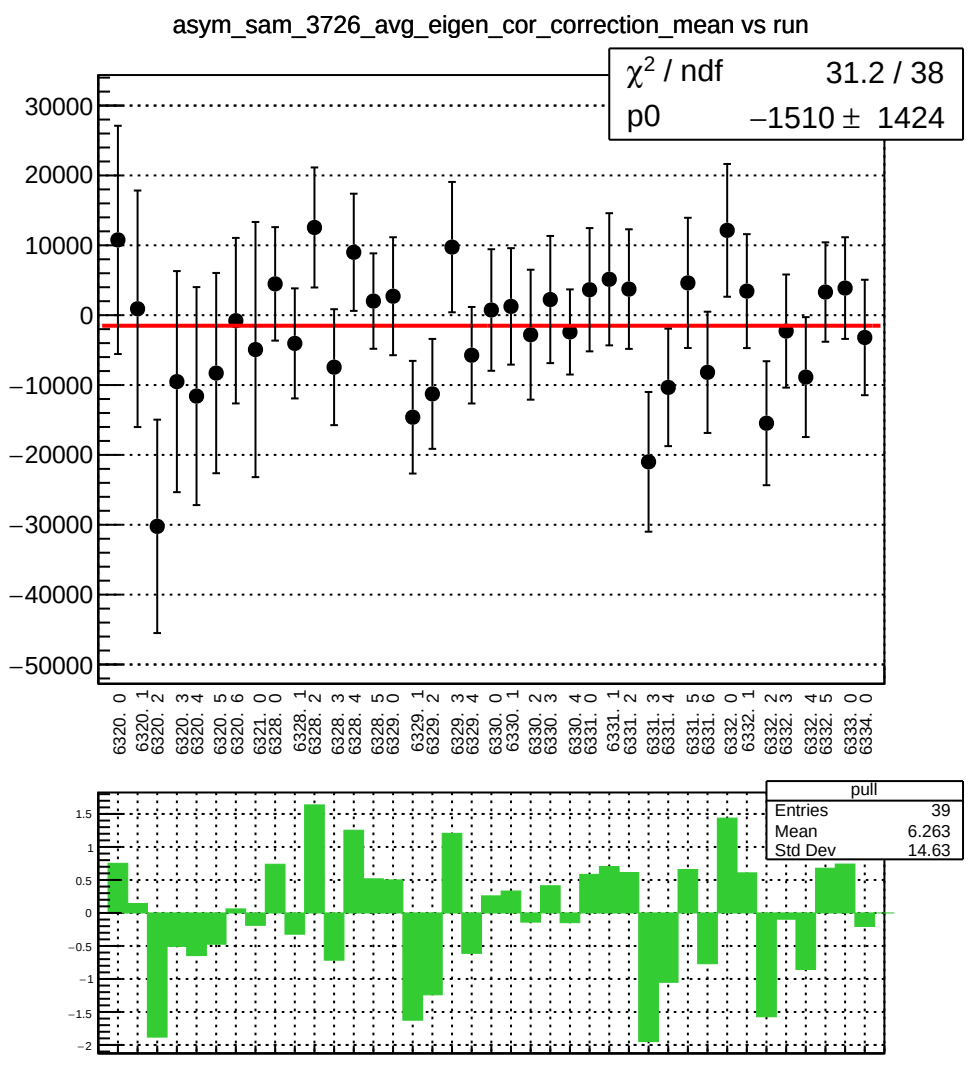

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 31.2 / 38
p0 −1510 ± 1424
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.263
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

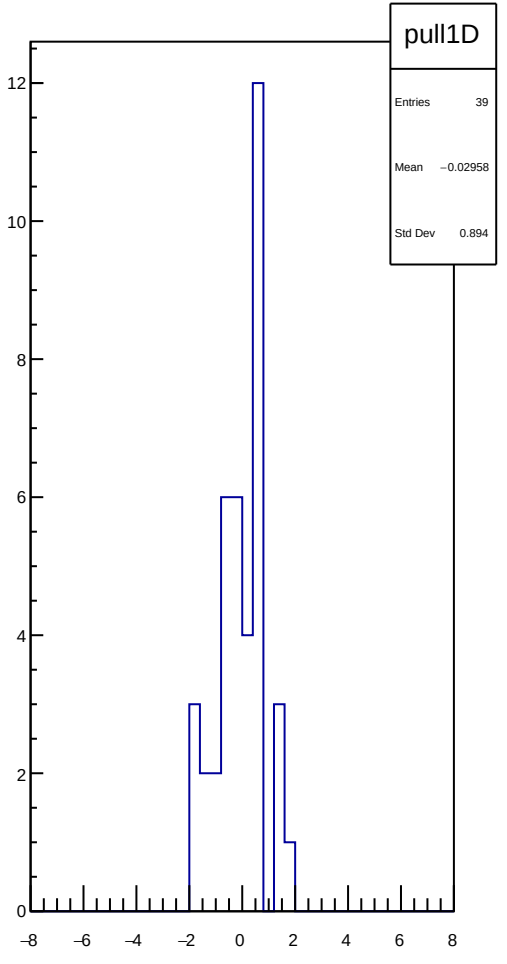

pull1D
Entries 39
Mean −0.02958
Std Dev 0.894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

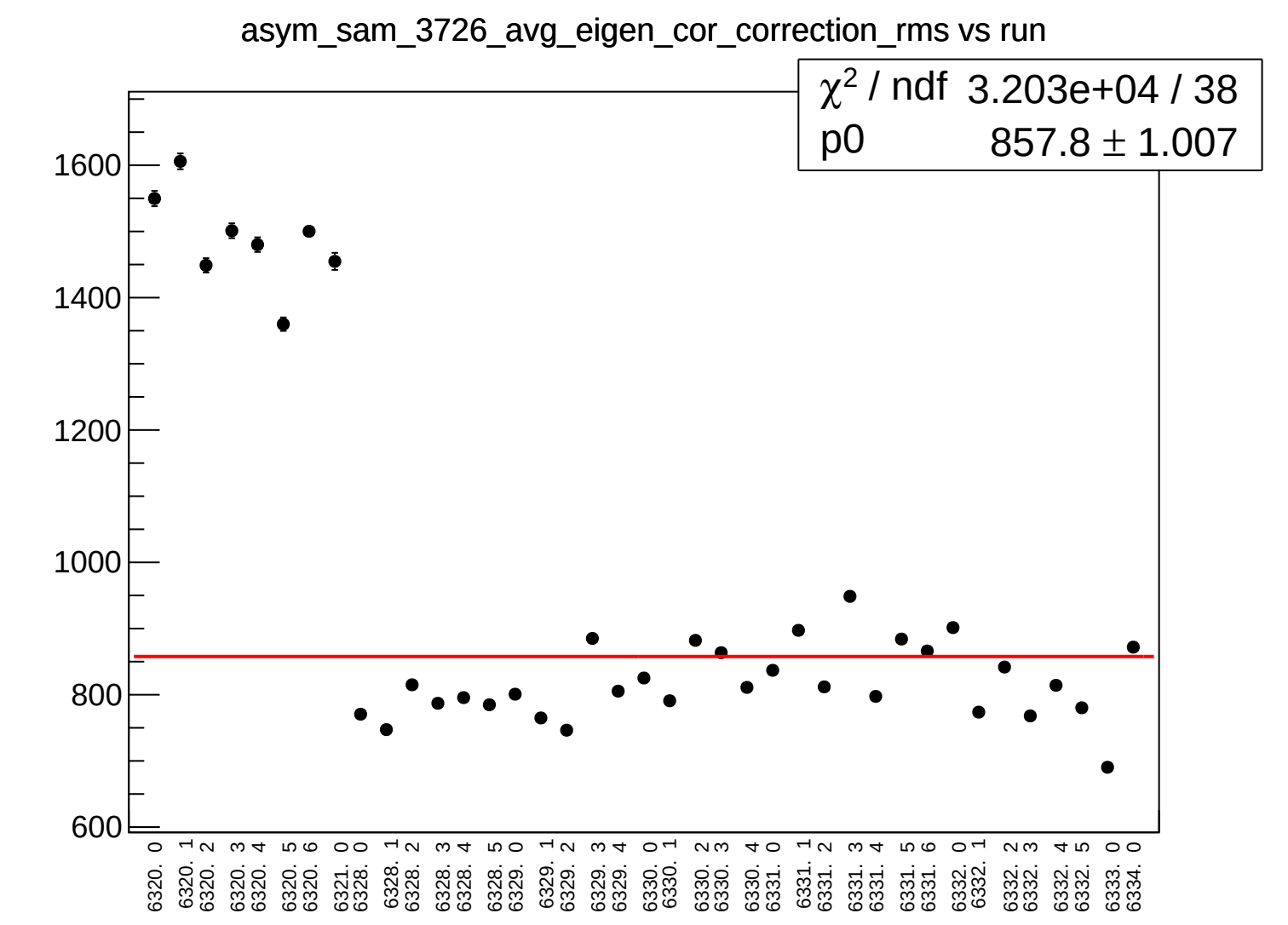

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3.203e+04 / 38
p0 857.8 ± 1.007
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

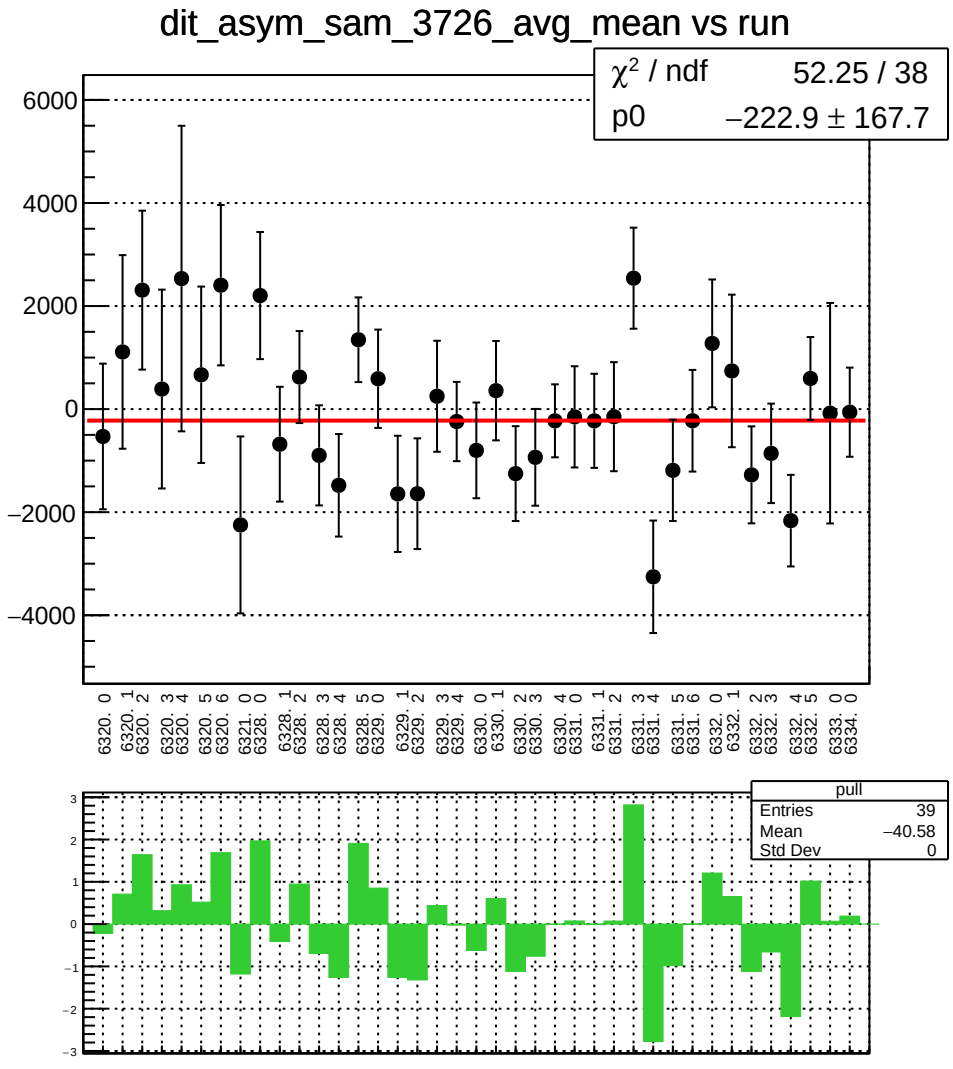

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 56.44 / 38
p0 −192.3 ± 131.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.07576
Std Dev 1.201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

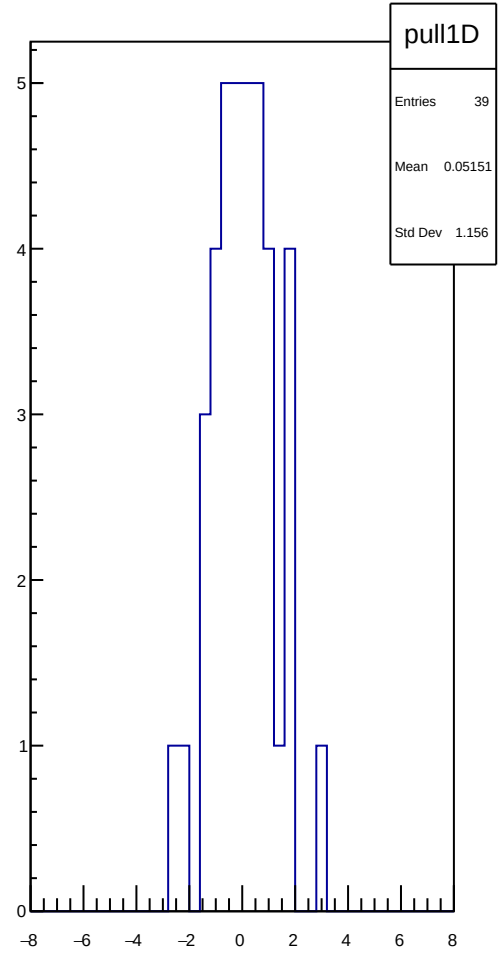

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.75e+04 / 38
p0 78.86 ± 0.09289
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

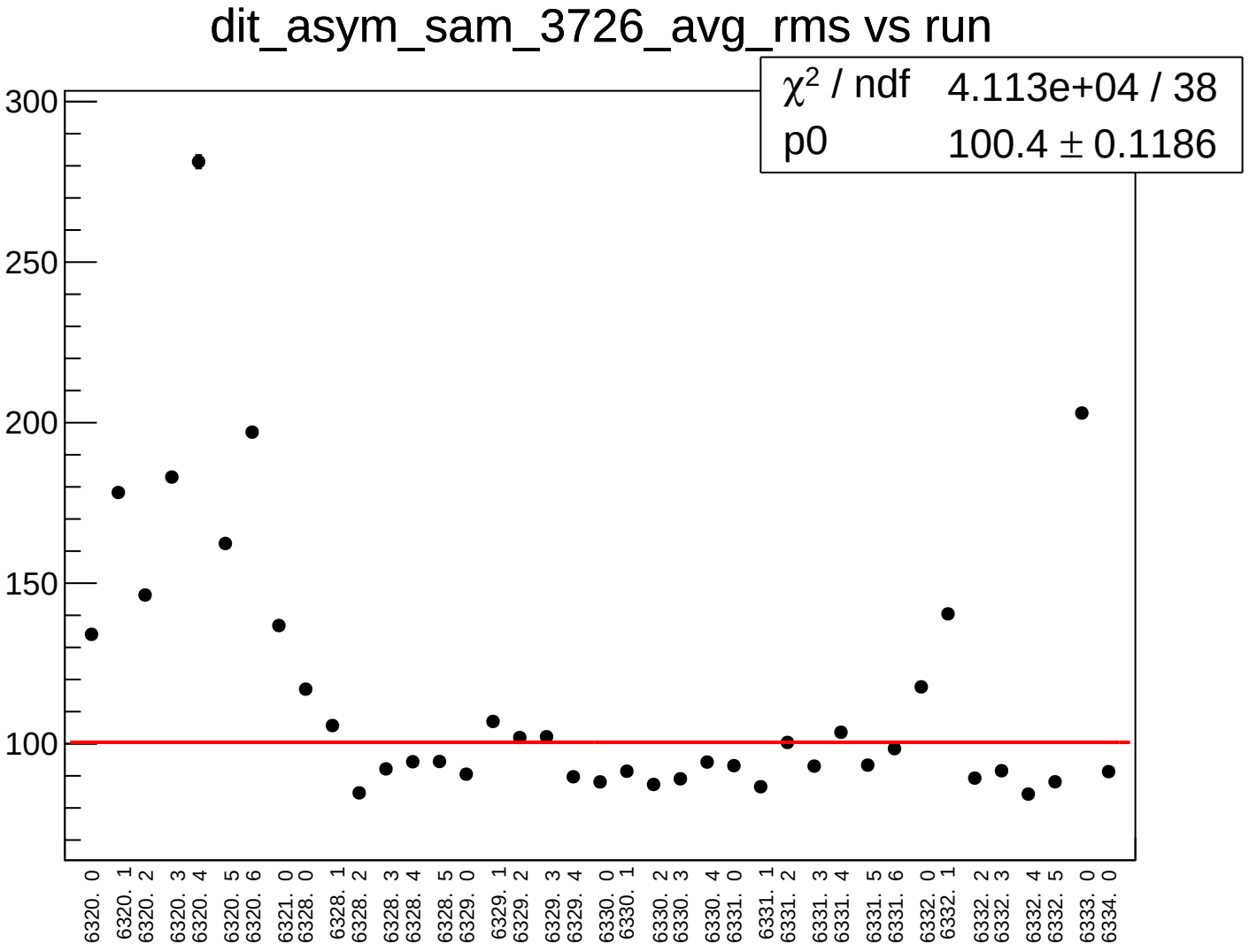

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.2 / 38
p0 −1510 ± 1424
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 6.263
Std Dev 14.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

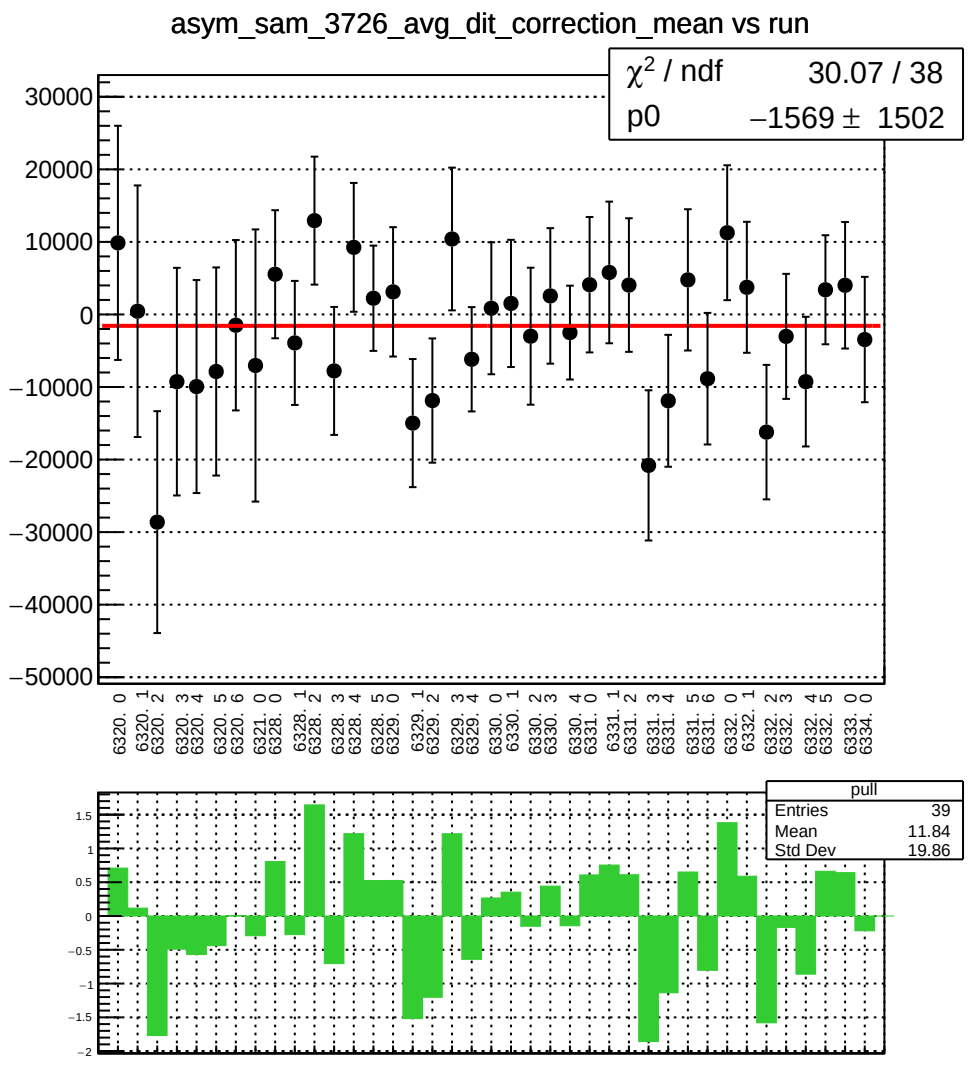

pull1D
Entries 39
Mean −0.02958
Std Dev 0.894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

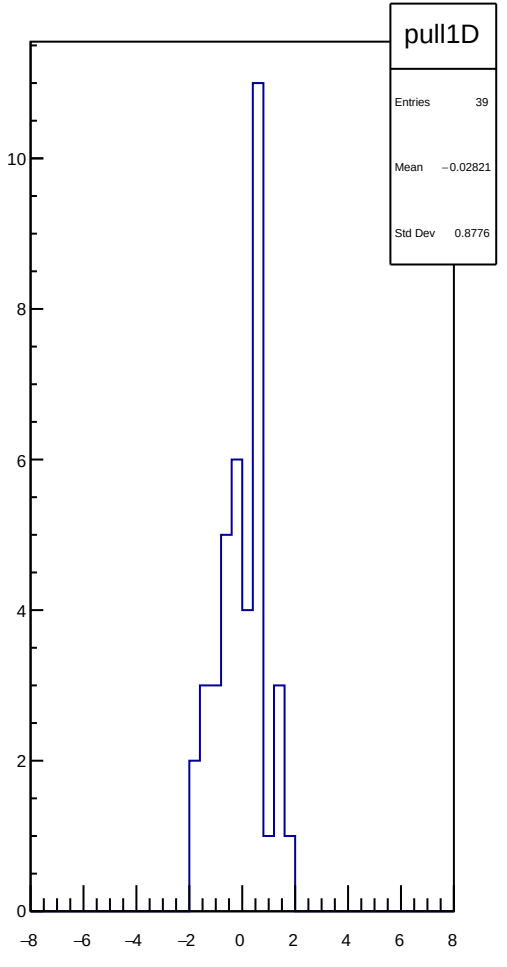

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.203e+04 / 38
p0 857.8 ± 1.007
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

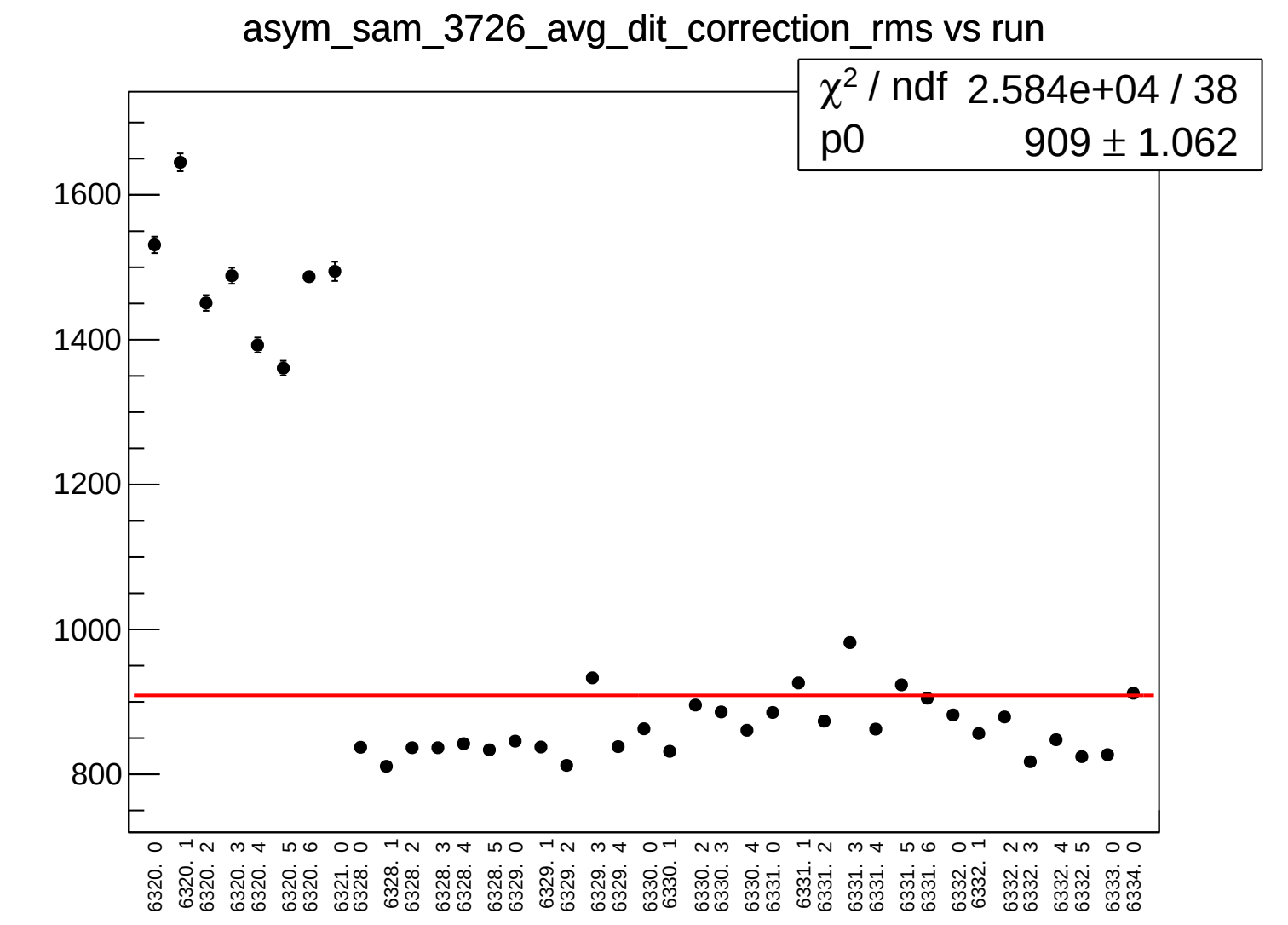

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 52.25 / 38
p0 −222.9 ± 167.7
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.58
Std Dev 0
3
2
1
0
−1
−2
−3

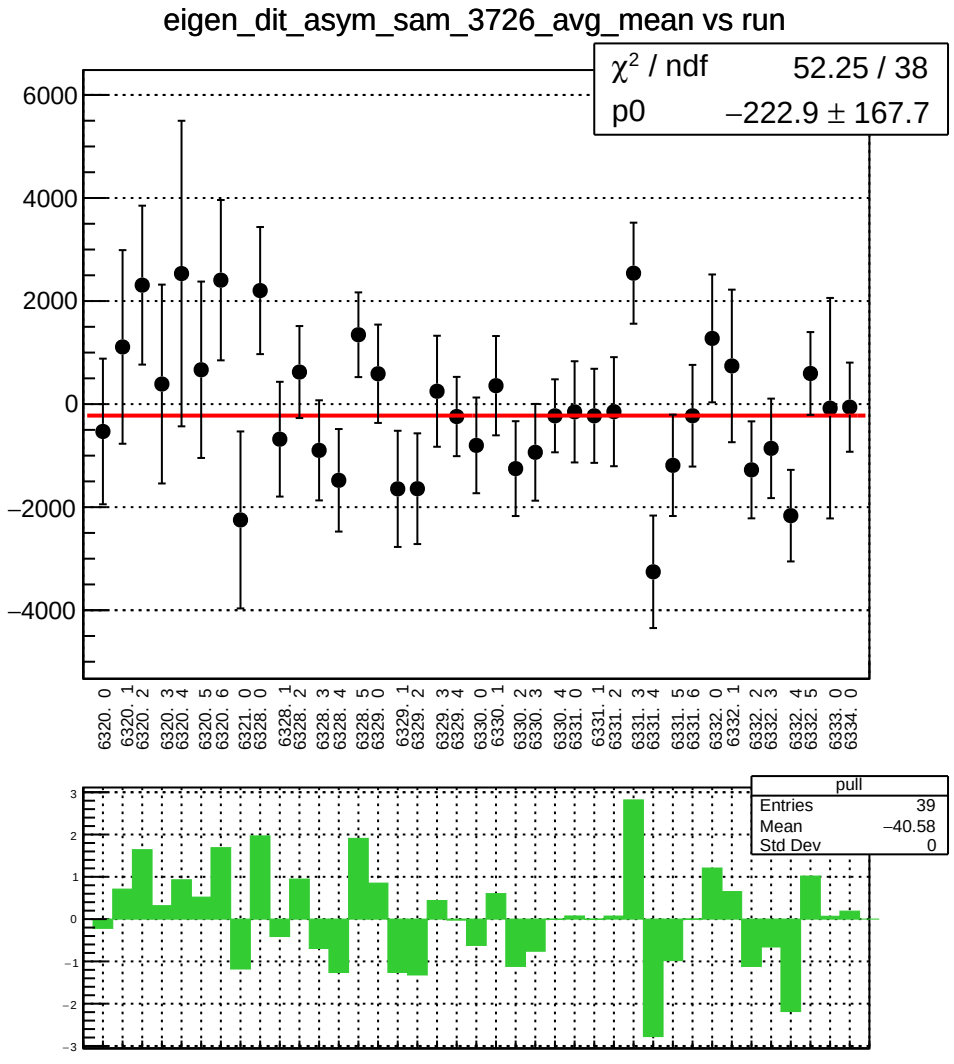

pull1D
Entries 39
Mean 0.05151
Std Dev 1.156
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

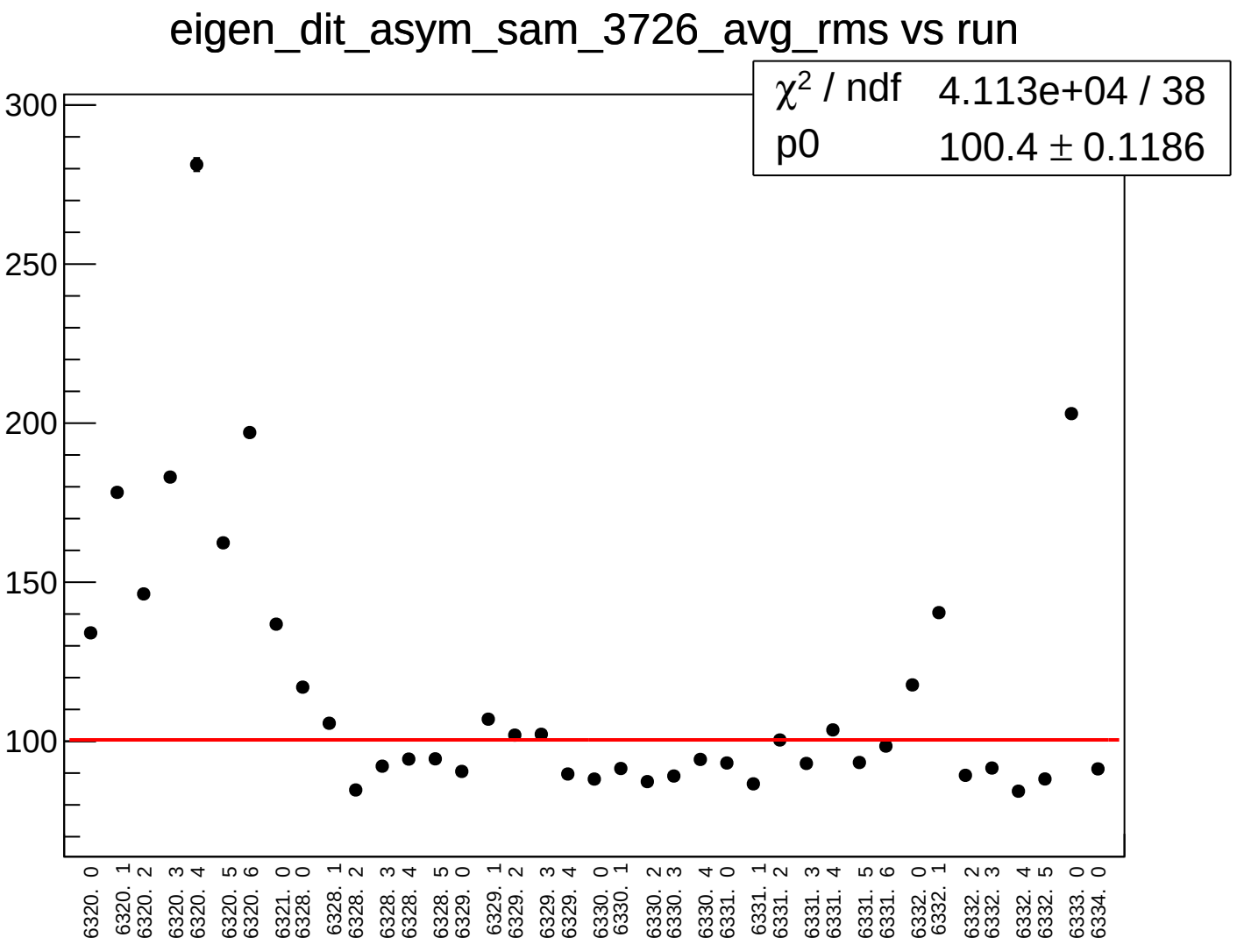

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.113e+04 / 38
p0 100.4 ± 0.1186
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

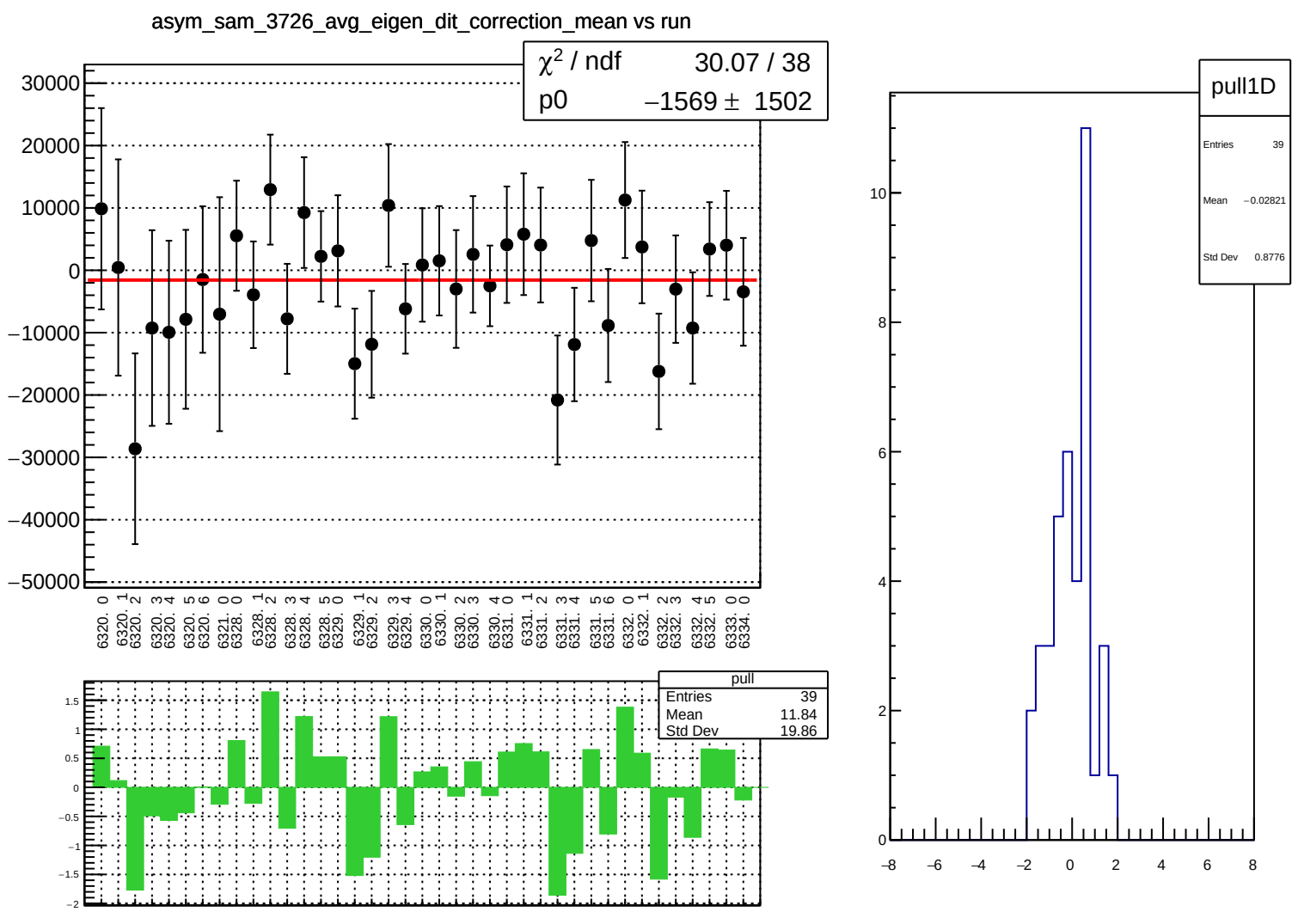

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 30.07 / 38
p0 −1569 ± 1502
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.84
Std Dev 19.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.02821
Std Dev 0.8776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2.584e+04 / 38
p0 909 ± 1.062
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 52.25 / 38
p0 −222.9 ± 167.7
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.58
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.05151
Std Dev 1.156
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.113e+04 / 38
p0 100.4 ± 0.1186
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 30.07 / 38
p0 −1569 ± 1502
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
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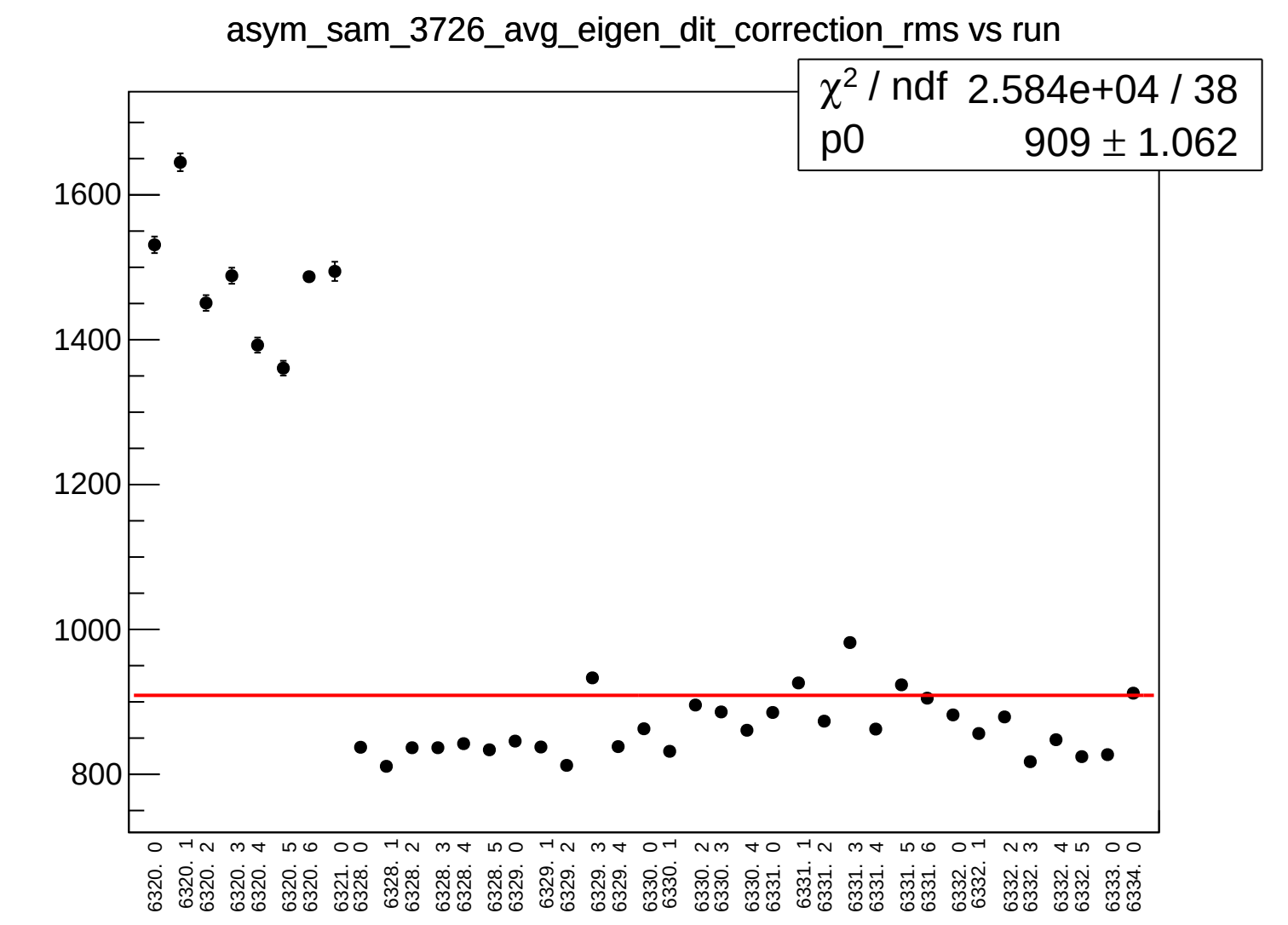
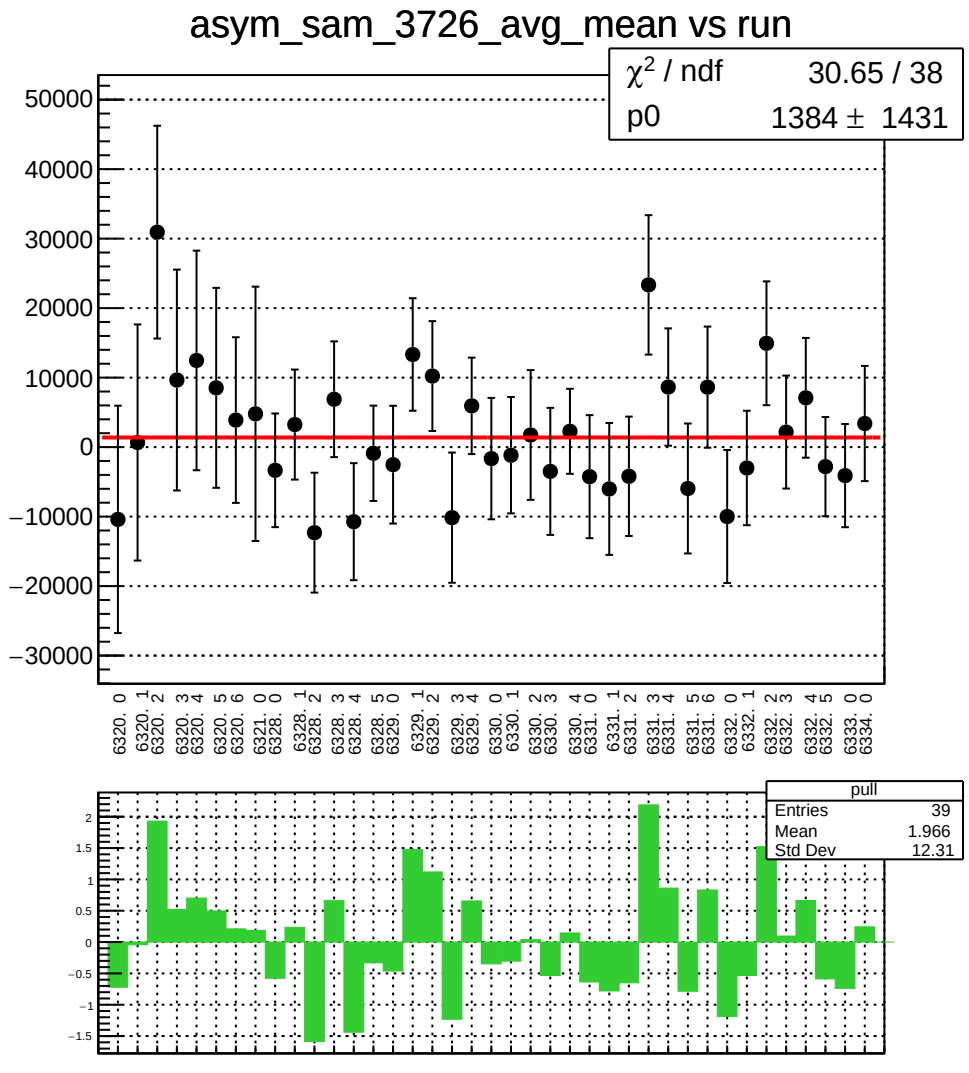
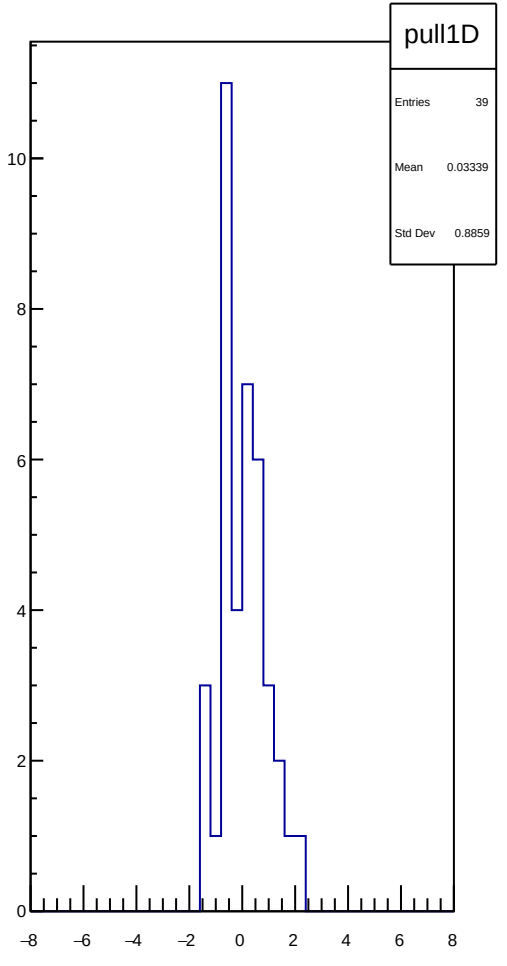
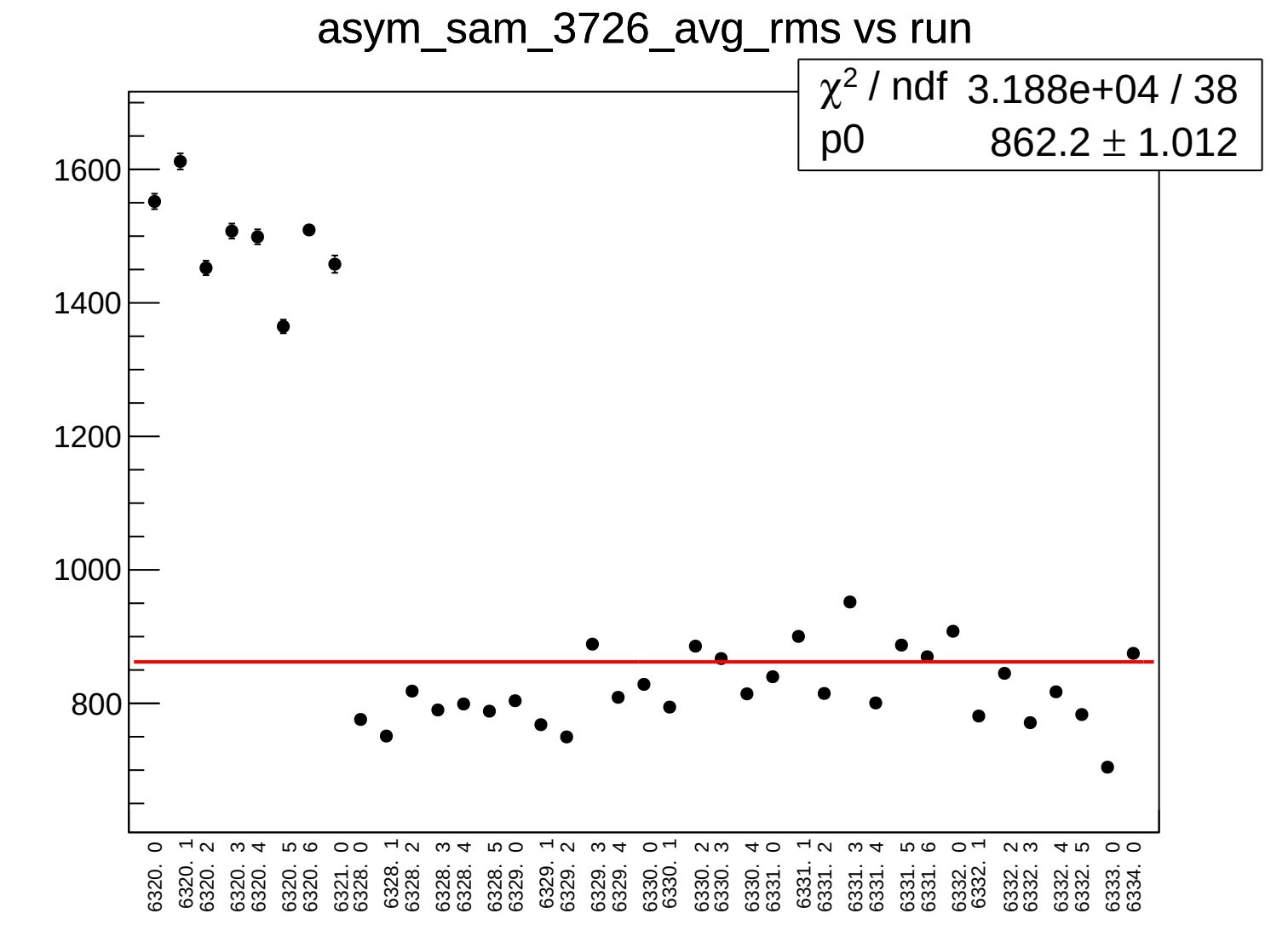
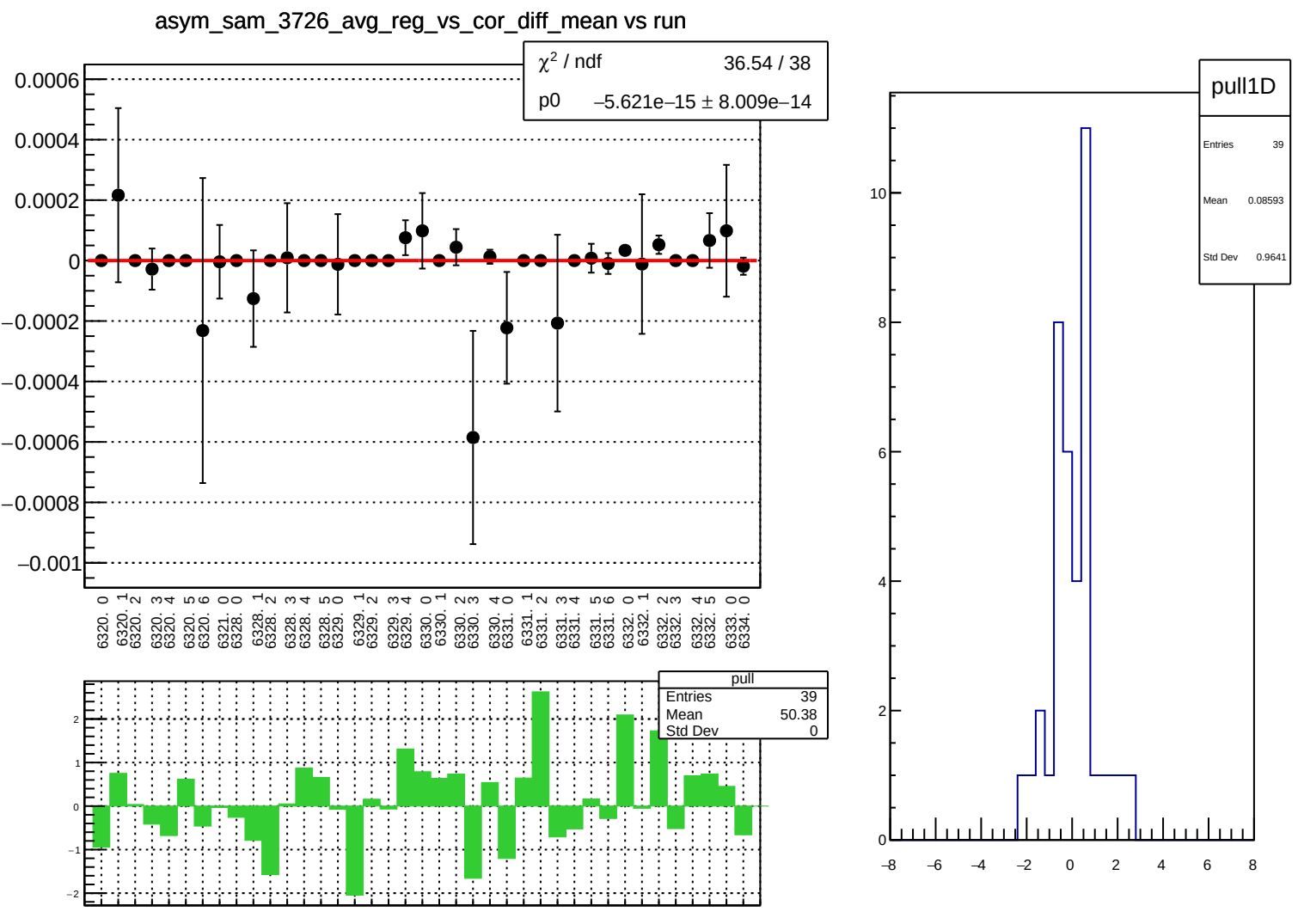
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 11.84
Std Dev 19.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02821
Std Dev 0.8776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

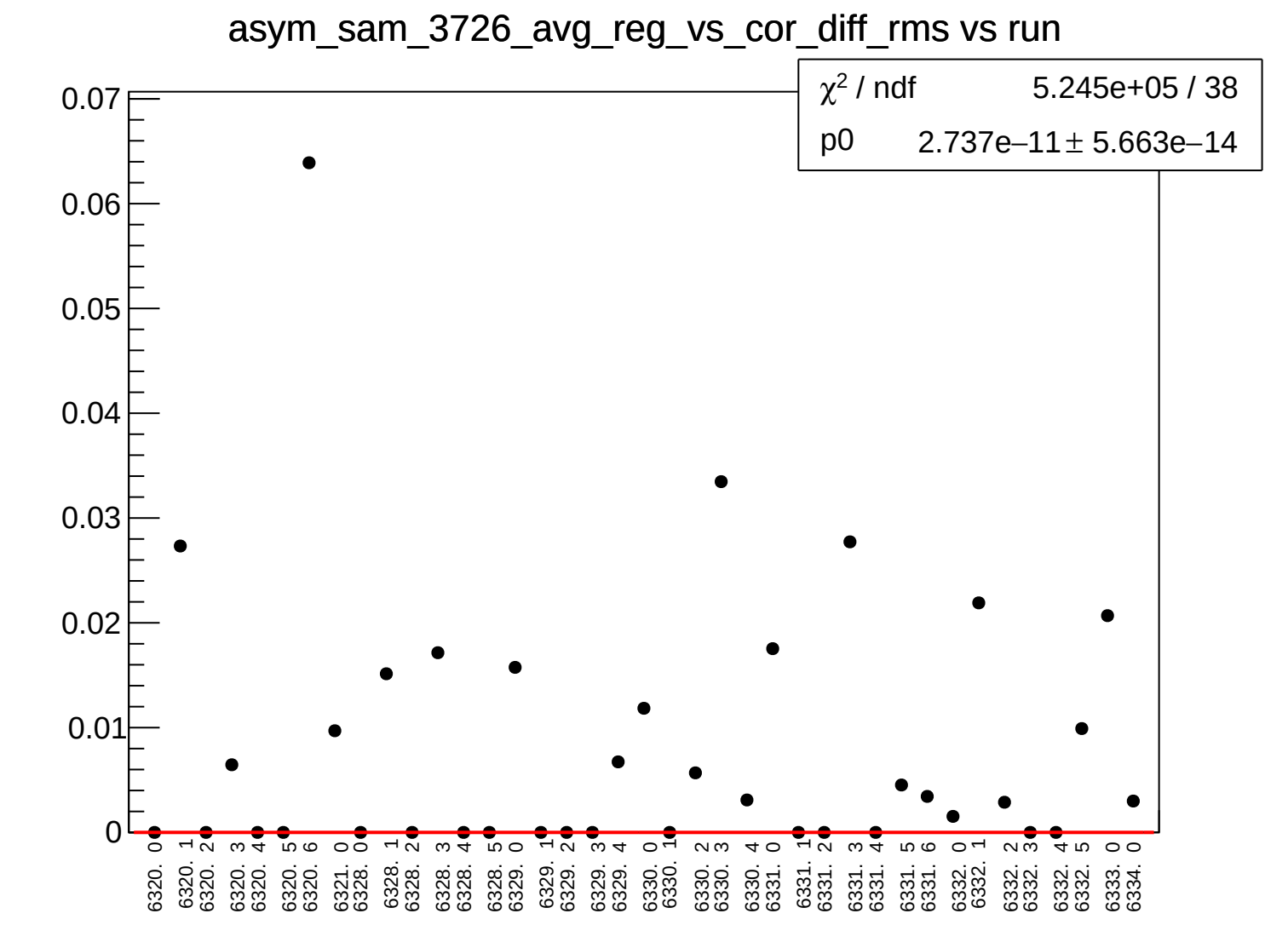

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.584e+04 / 38
p0 909 ± 1.062
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

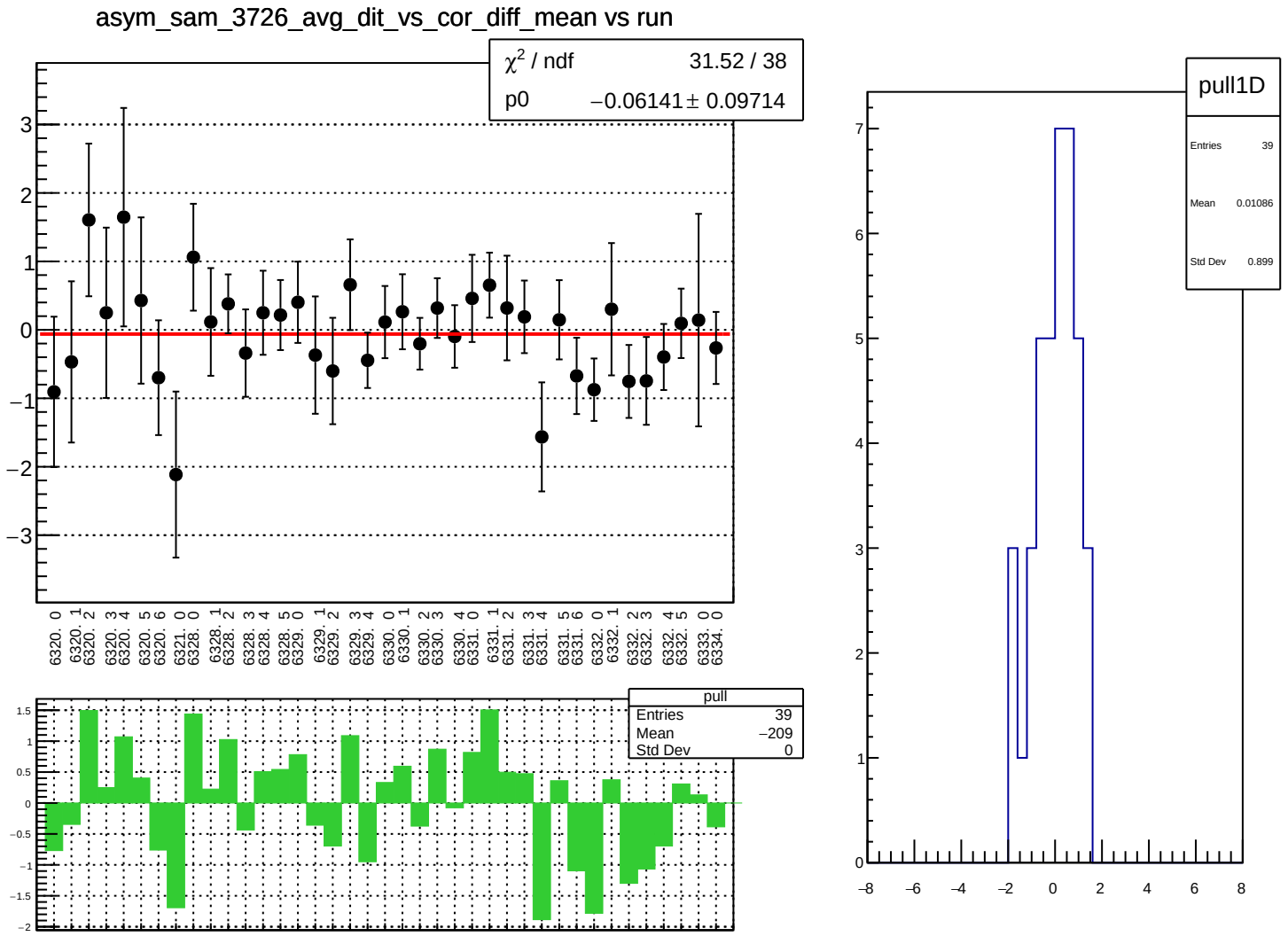

asym_sam_3726_avg_mean vs run
χ² / ndf 30.65 / 38
p0 1384 ± 1431
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.966
Std Dev 12.31
2
1.5
1
0.5
0
−0.5
−1
−1.5

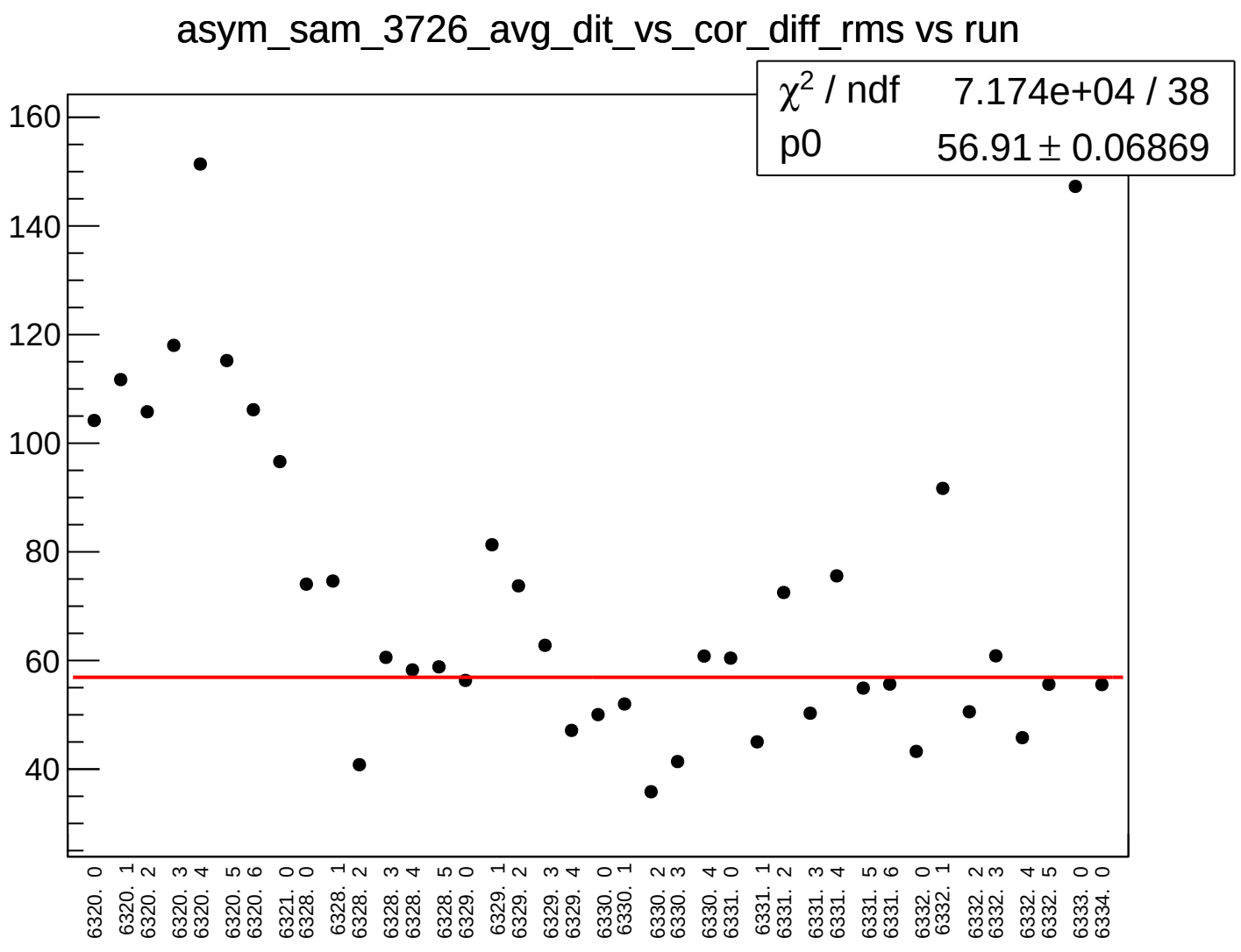

pull1D
Entries 39
Mean 0.03339
Std Dev 0.8859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

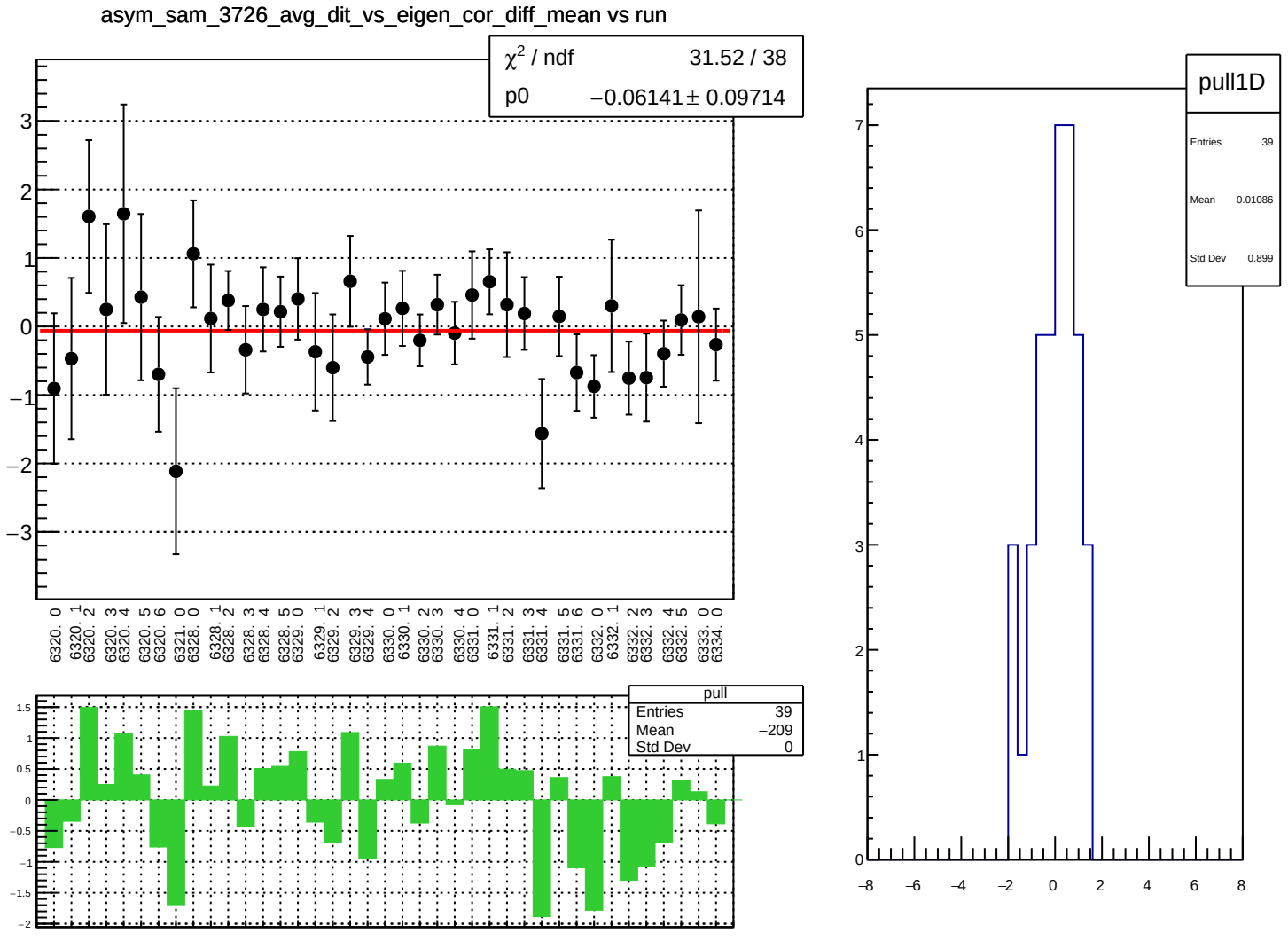

asym_sam_3726_avg_rms vs run
χ² / ndf 3.188e+04 / 38
p0 862.2 ± 1.012
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

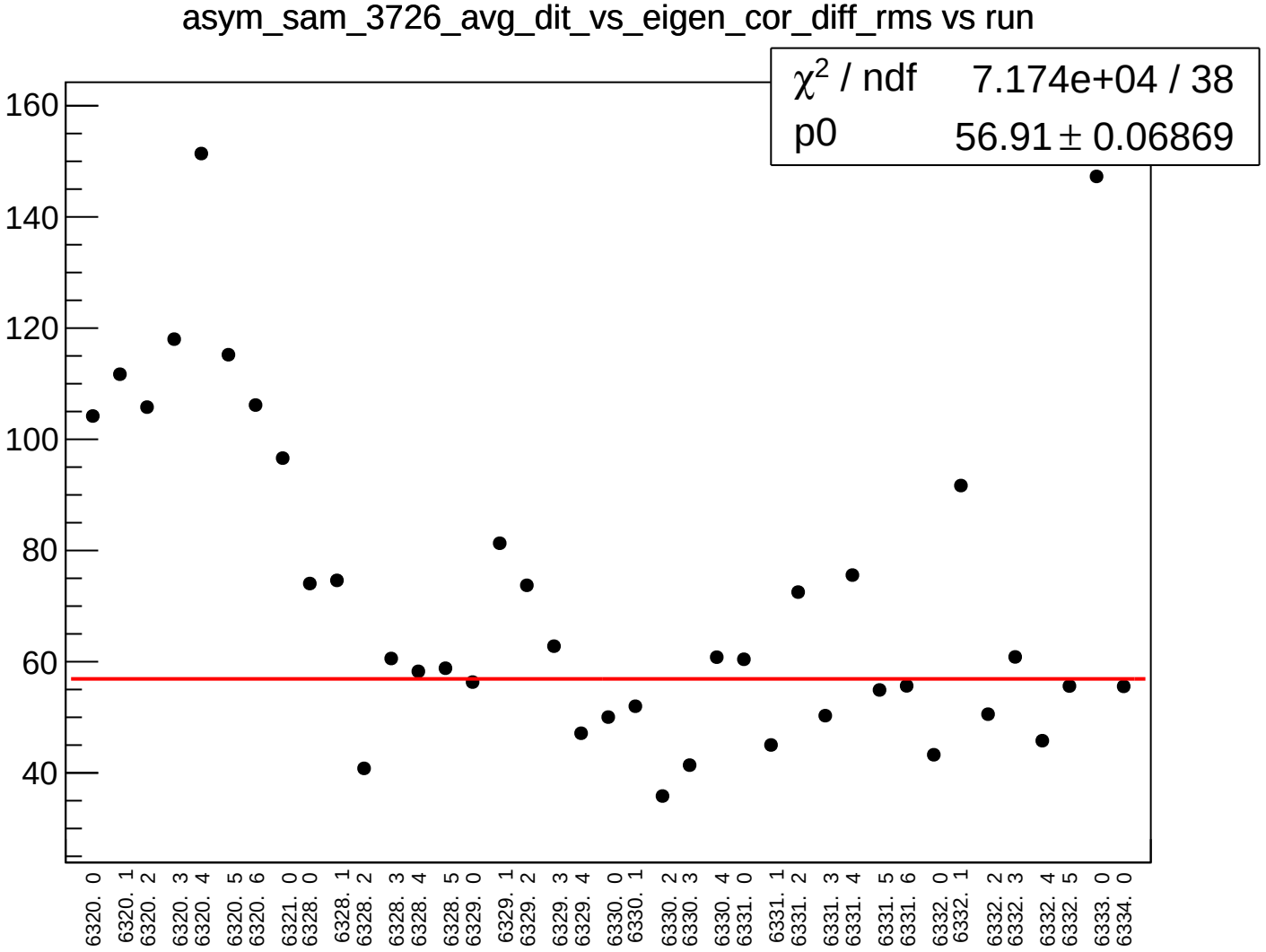

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 38
p0 −5.621e−15 ± 8.009e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.08593
Std Dev 0.9641
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

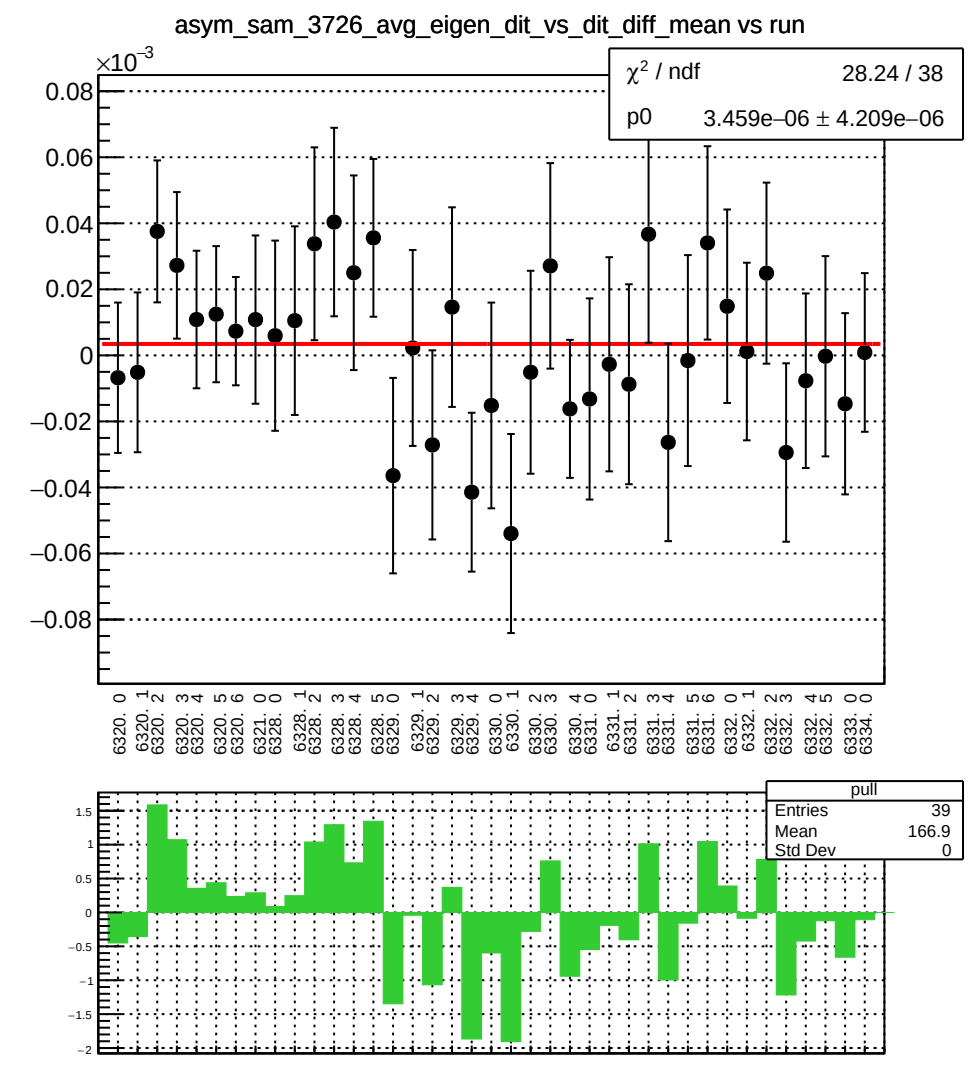

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.245e+05 / 38
p0 2.737e−11 ± 5.663e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

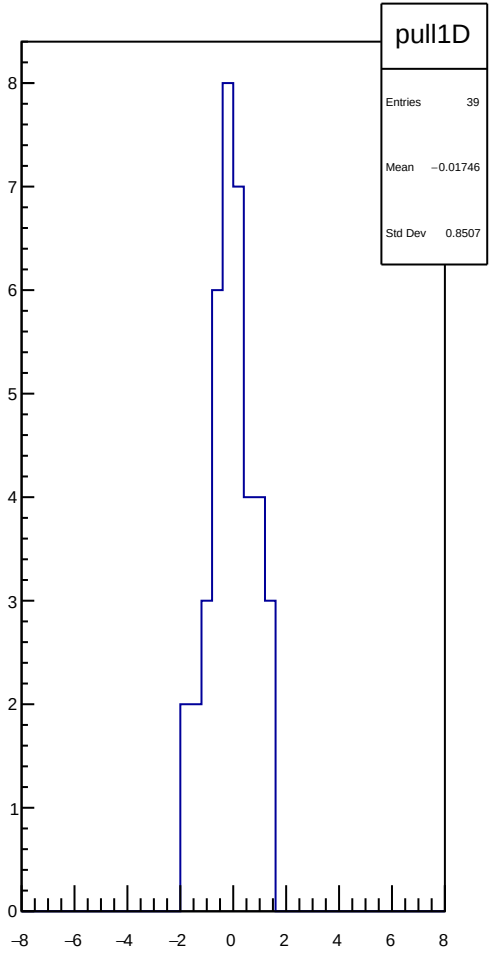

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.52 / 38
p0 −0.06141 ± 0.09714
pull
Entries 39
Mean −209
Std Dev 0
pull1D
Entries 39
Mean 0.01086
Std Dev 0.899

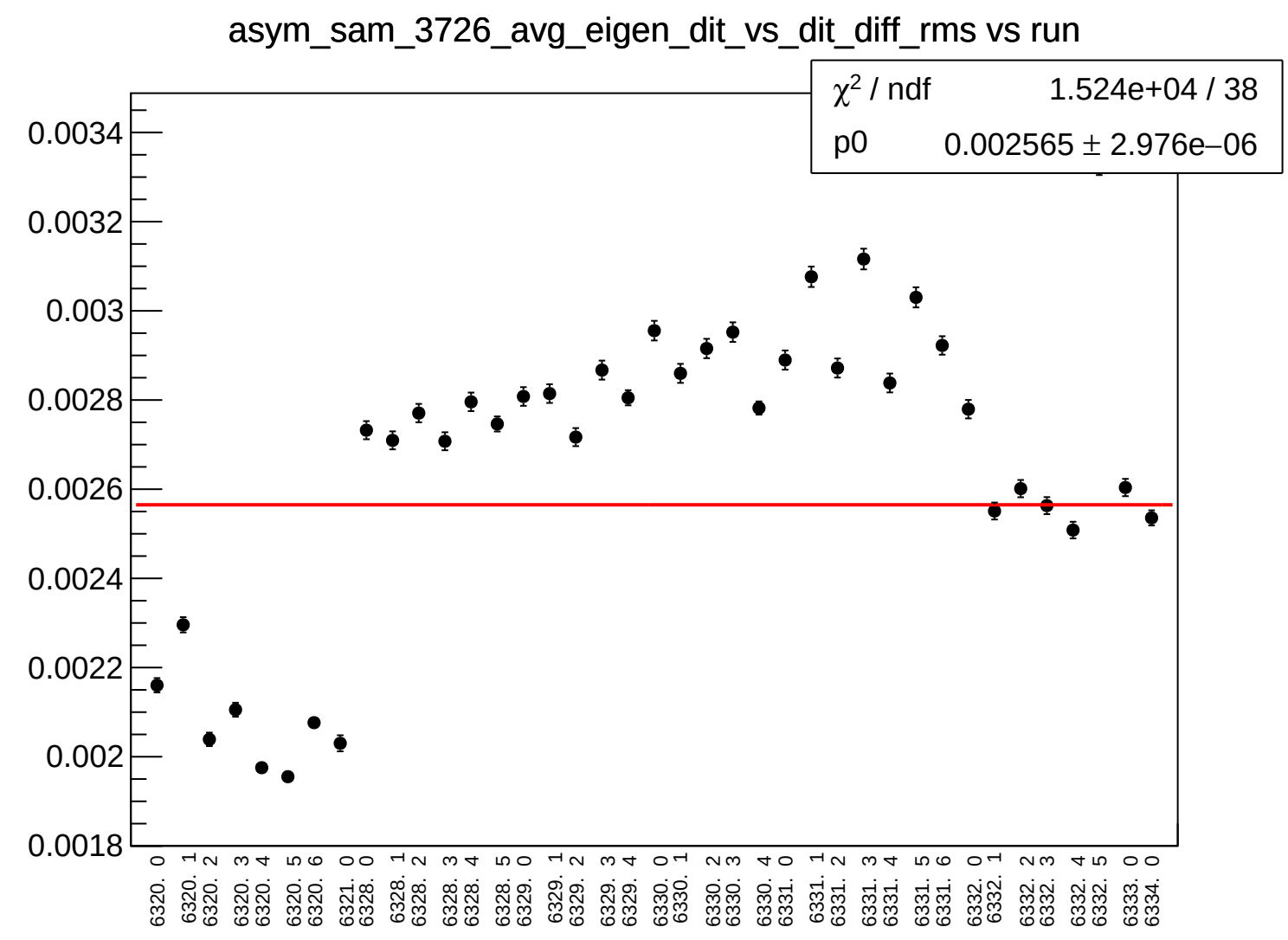

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 38
p0 56.91 ± 0.06869
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

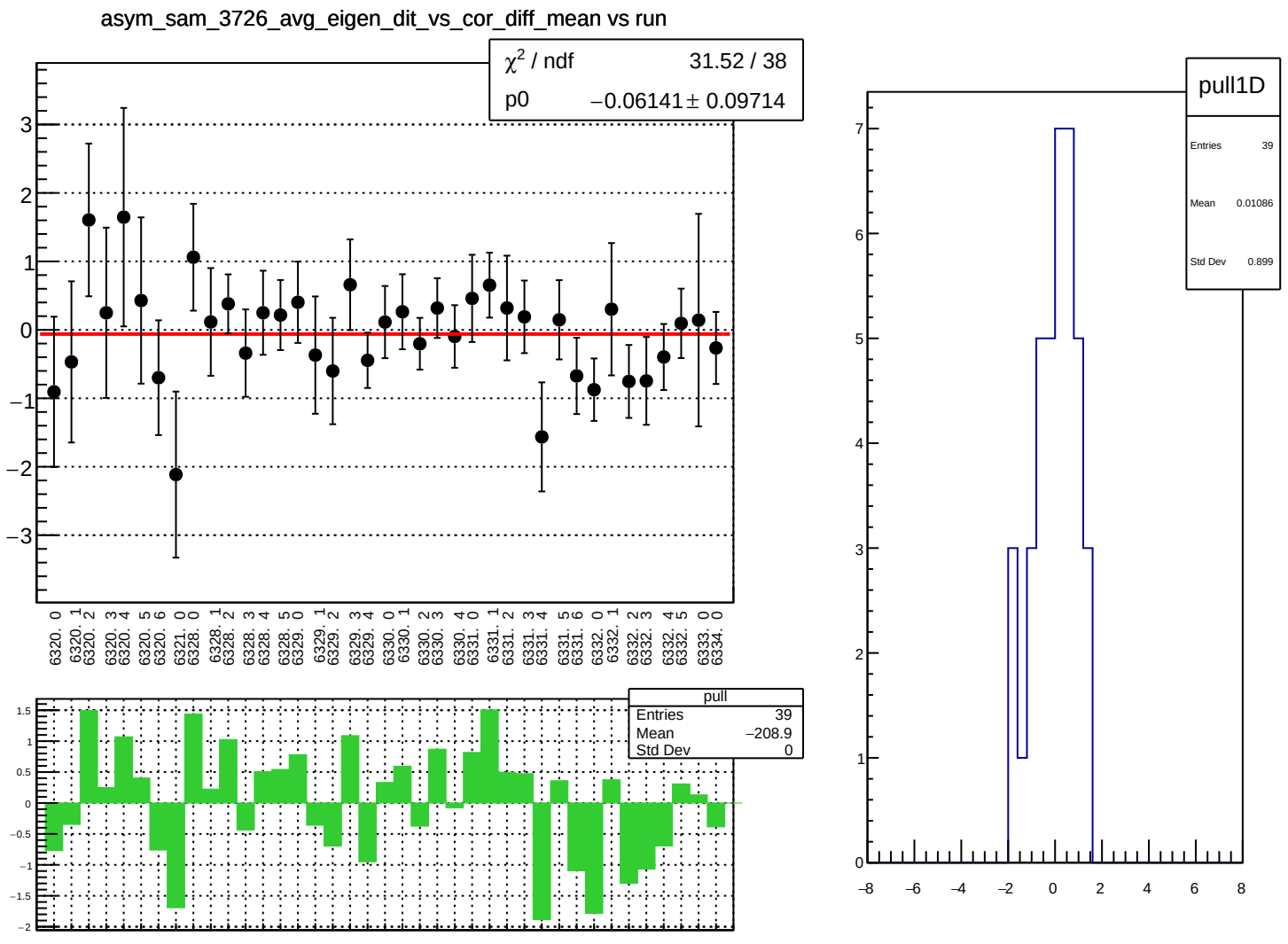

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.52 / 38
p0 −0.06141 ± 0.09714
pull
Entries 39
Mean −209
Std Dev 0
pull1D
Entries 39
Mean 0.01086
Std Dev 0.899

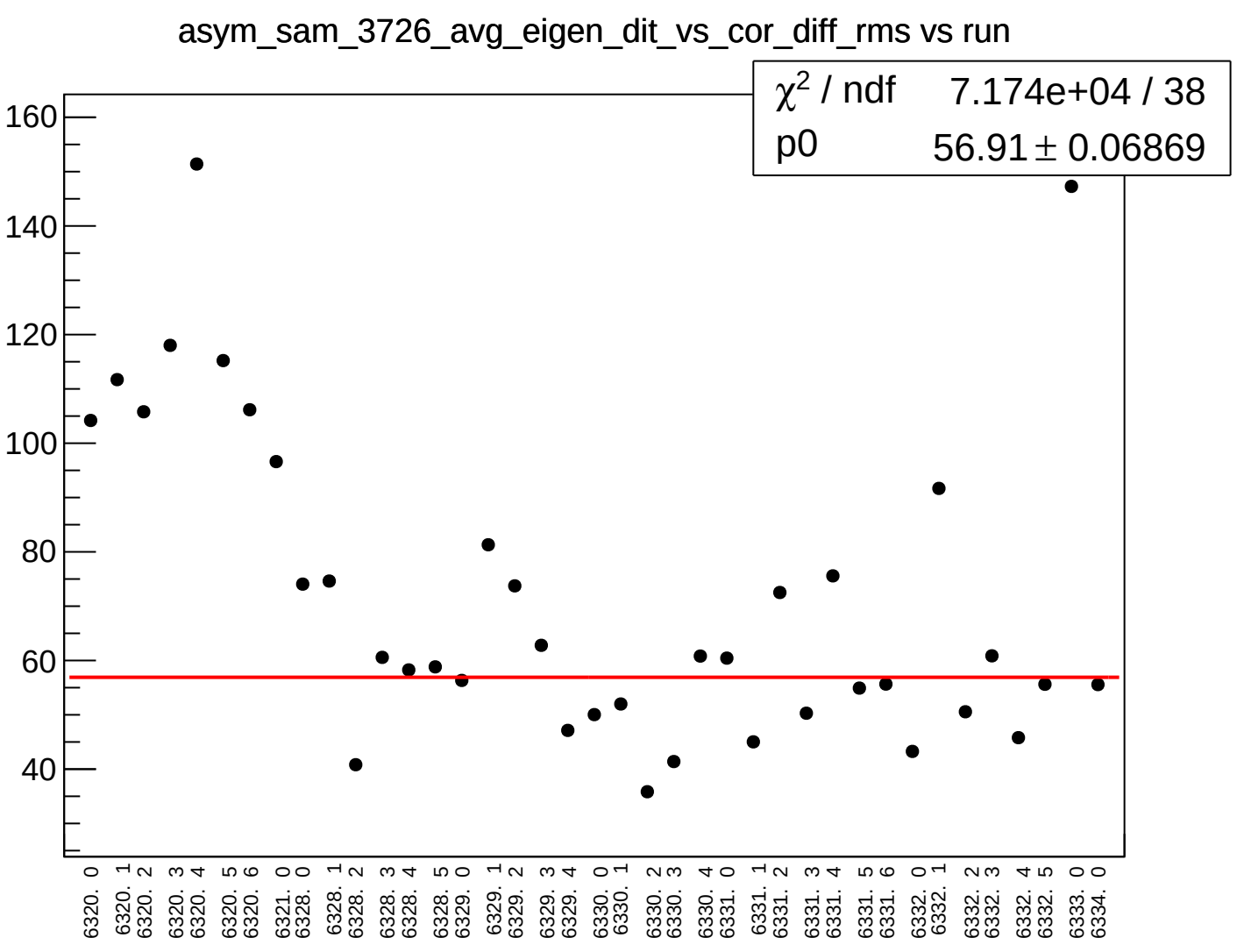

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 38
p0 56.91 ± 0.06869
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.24 / 38
p0 3.459e−06 ± 4.209e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 166.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

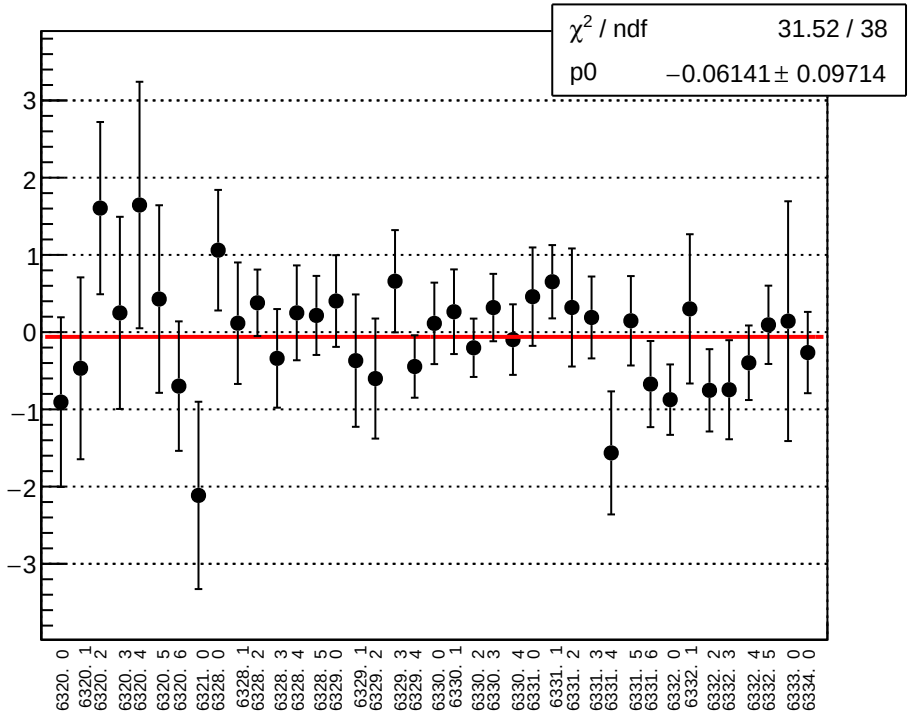

pull1D
Entries 39
Mean −0.01746
Std Dev 0.8507
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

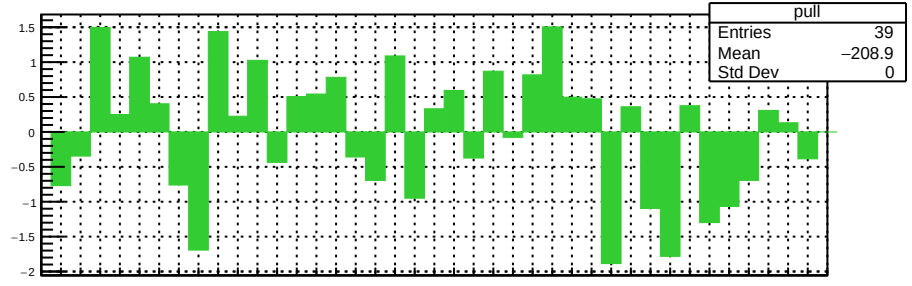

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.524e+04 / 38
p0 0.002565 ± 2.976e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

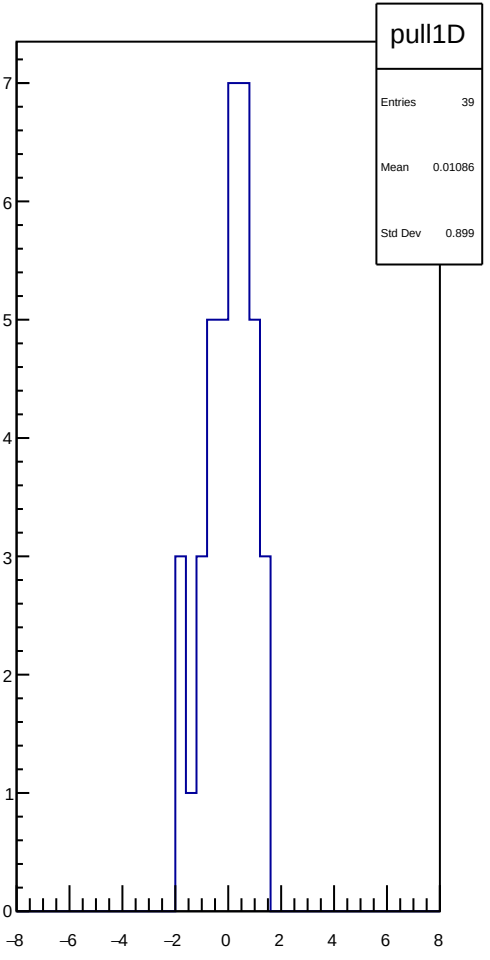

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.52 / 38
p0 −0.06141 ± 0.09714
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −208.9
Std Dev 0
pull1D
Entries 39
Mean 0.01086
Std Dev 0.899

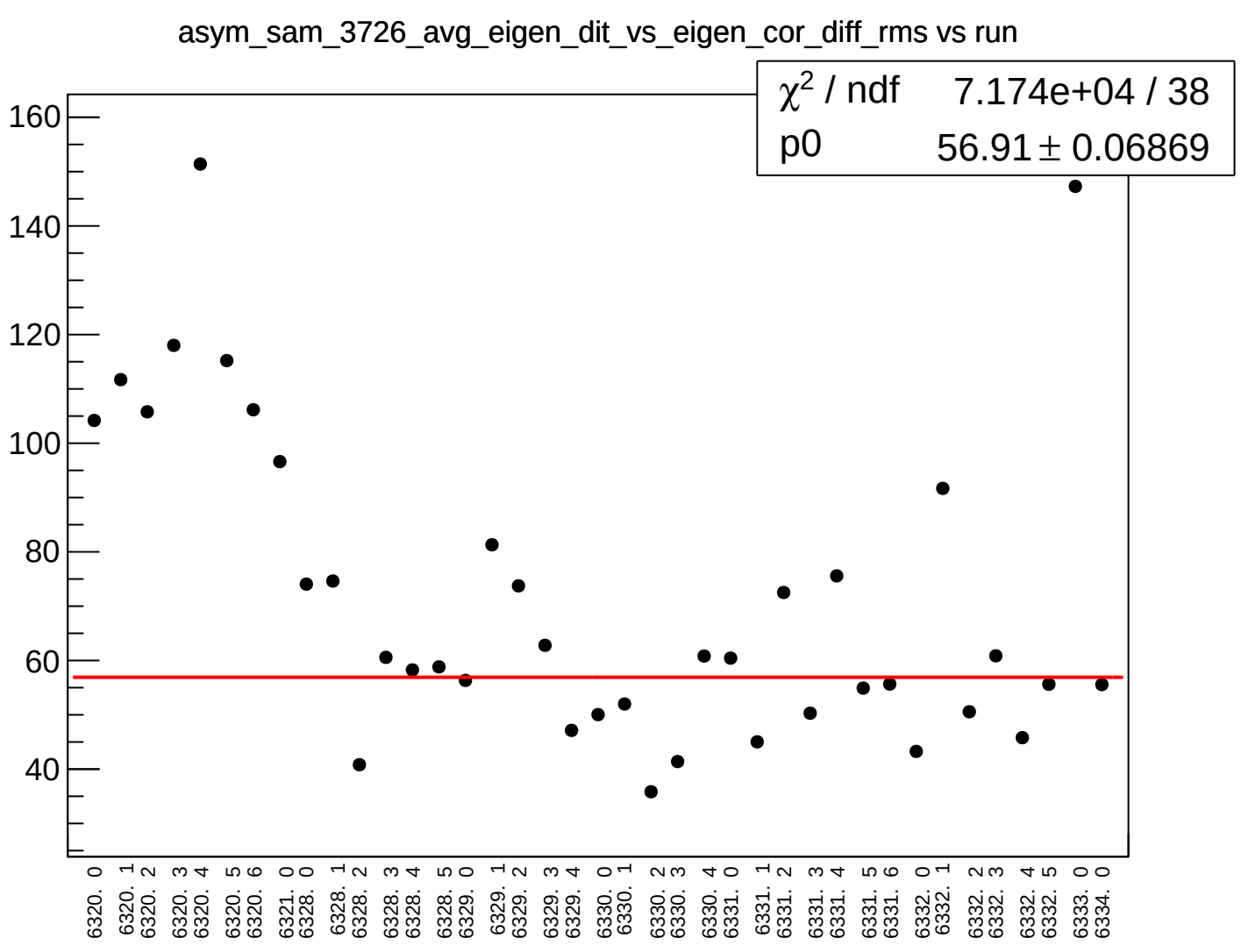

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 38
p0 56.91 ± 0.06869
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

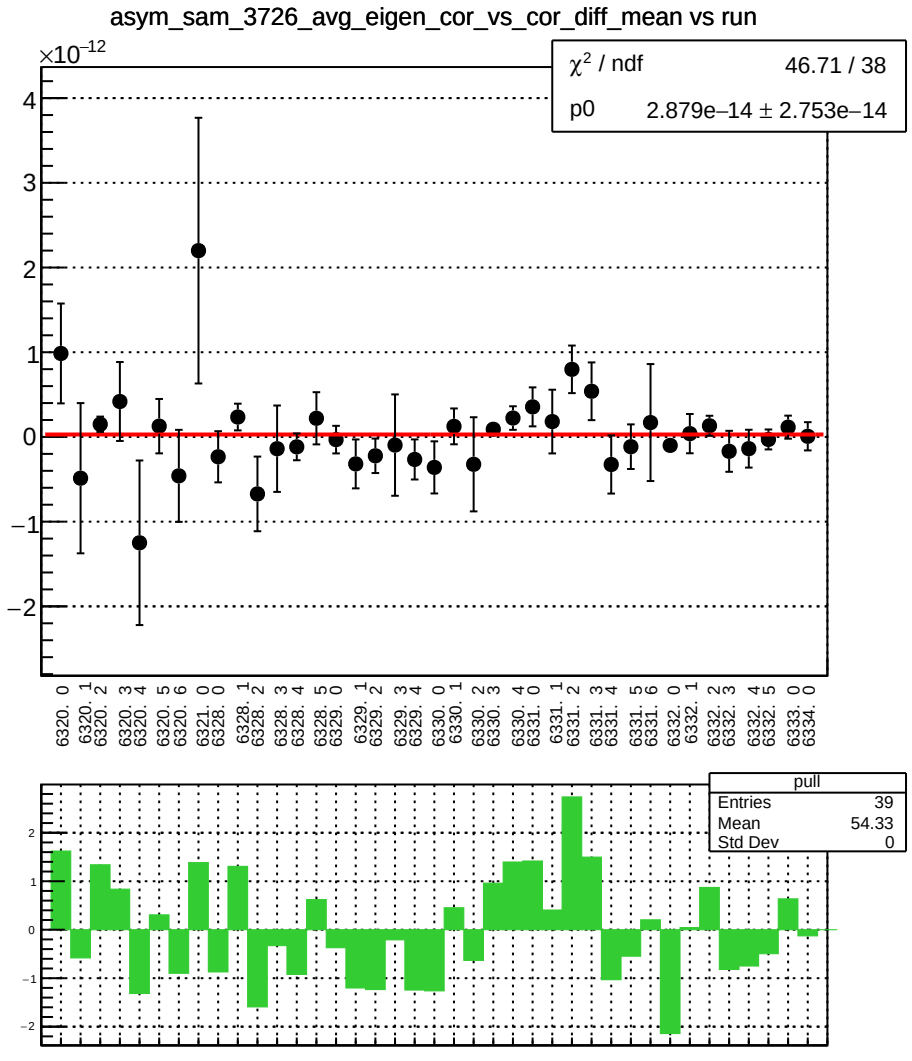
asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

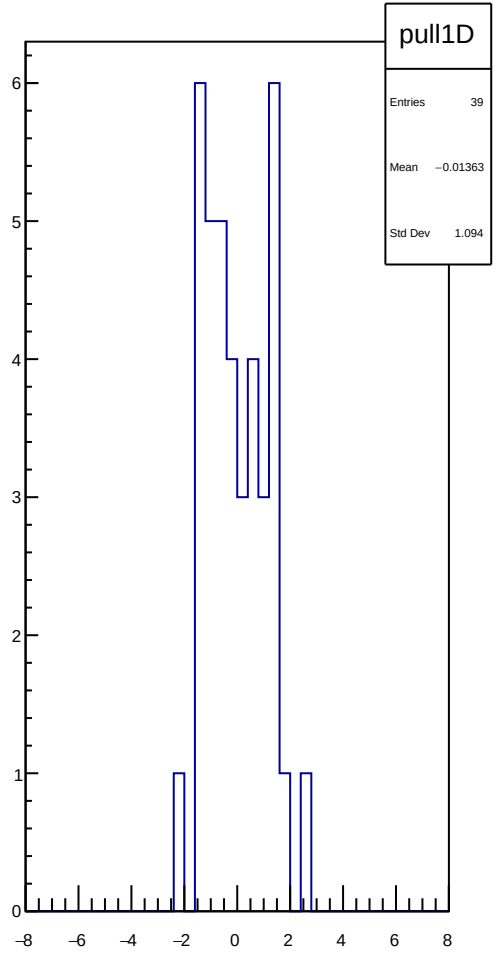


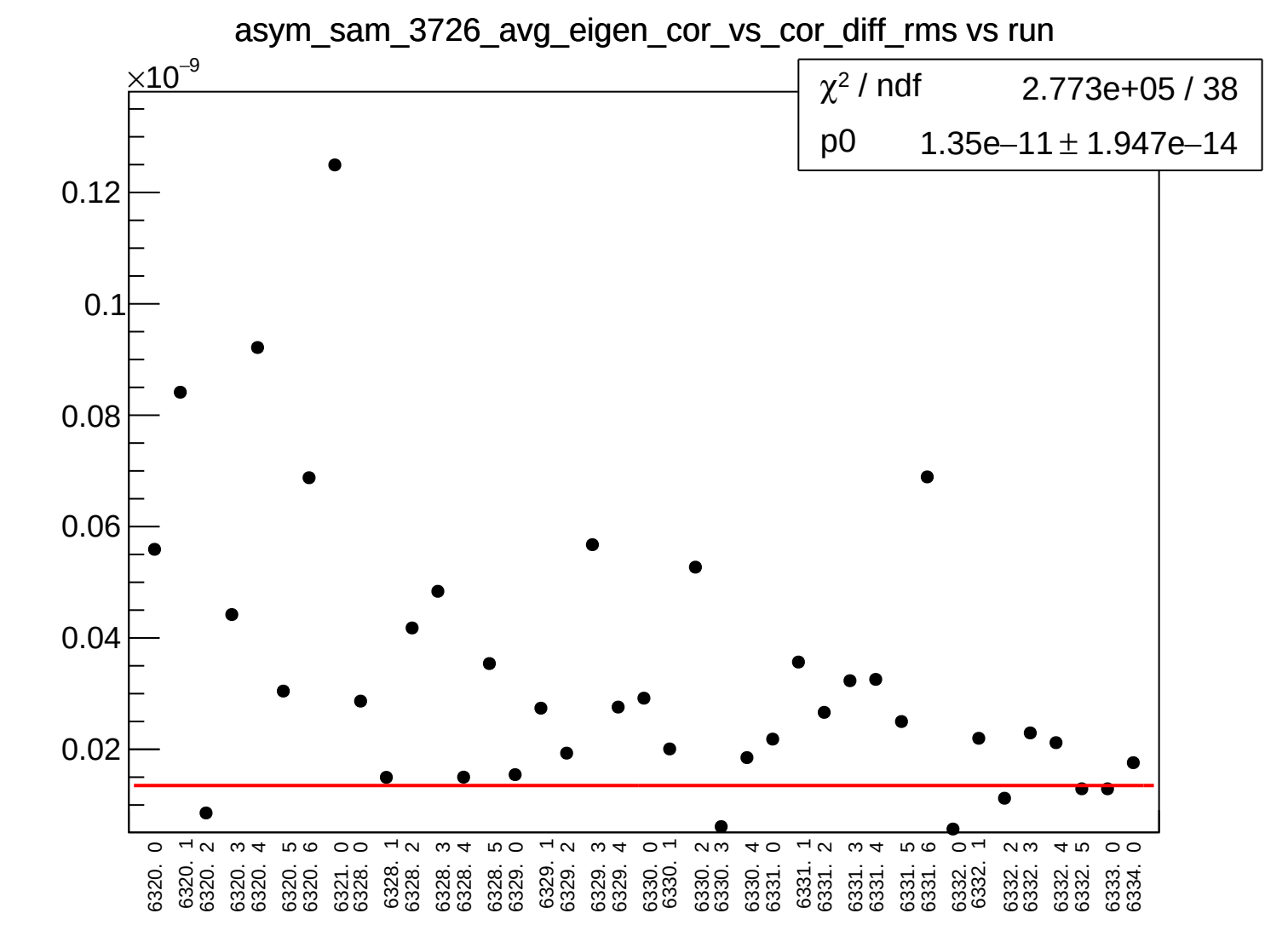


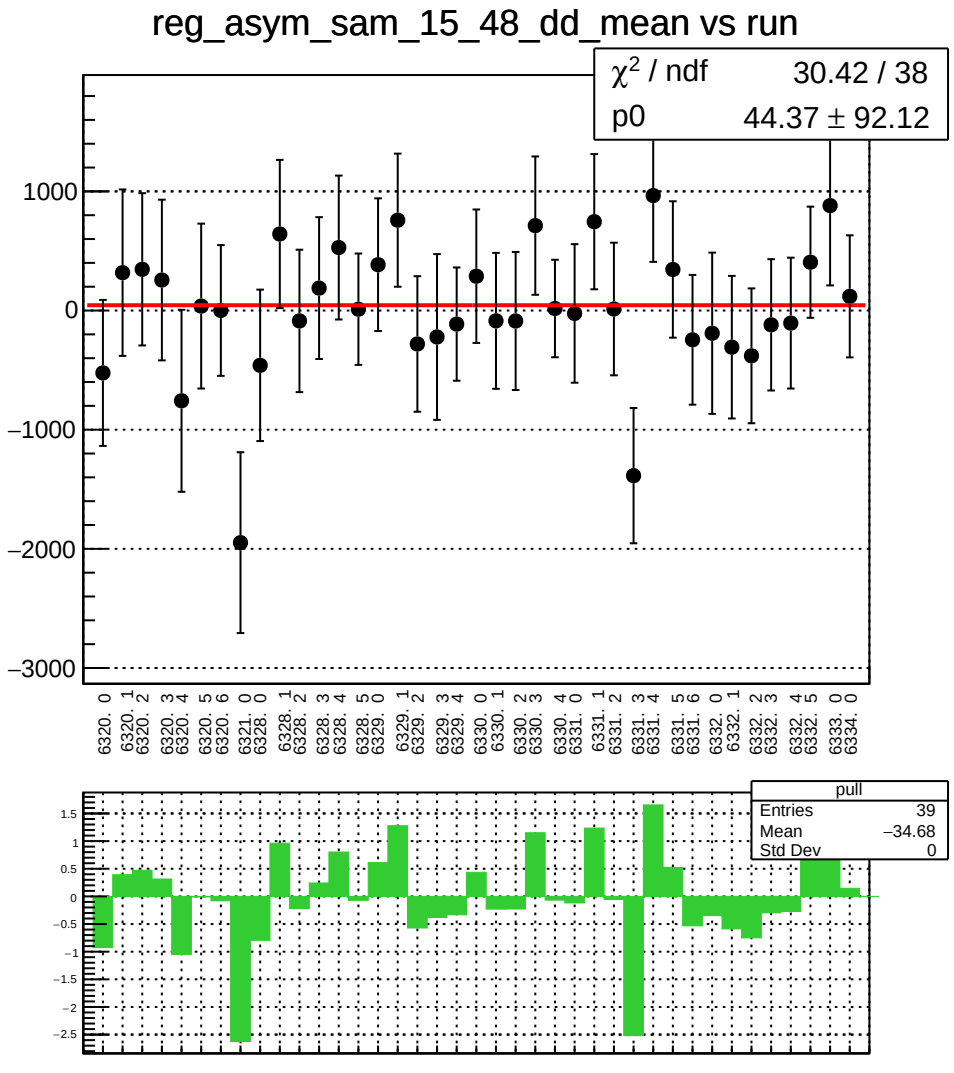


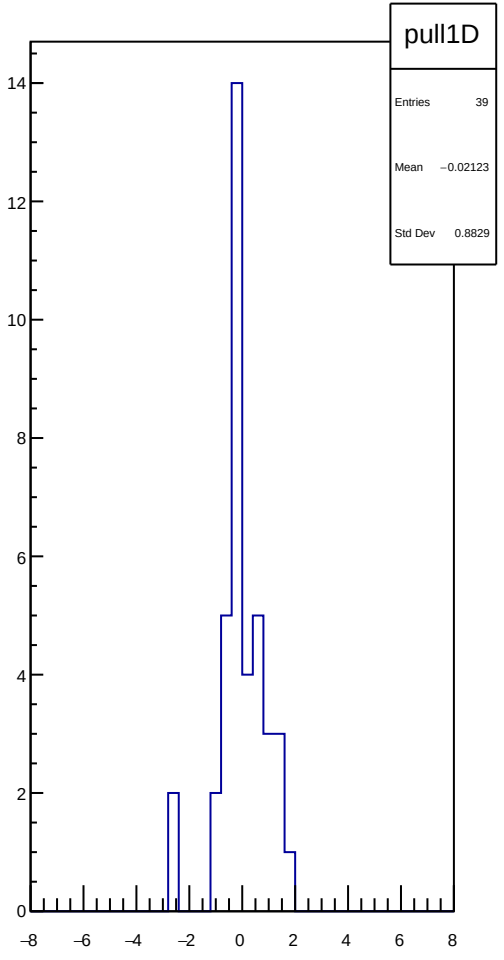

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.174e+04 / 38
p0 56.91 ± 0.06869
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

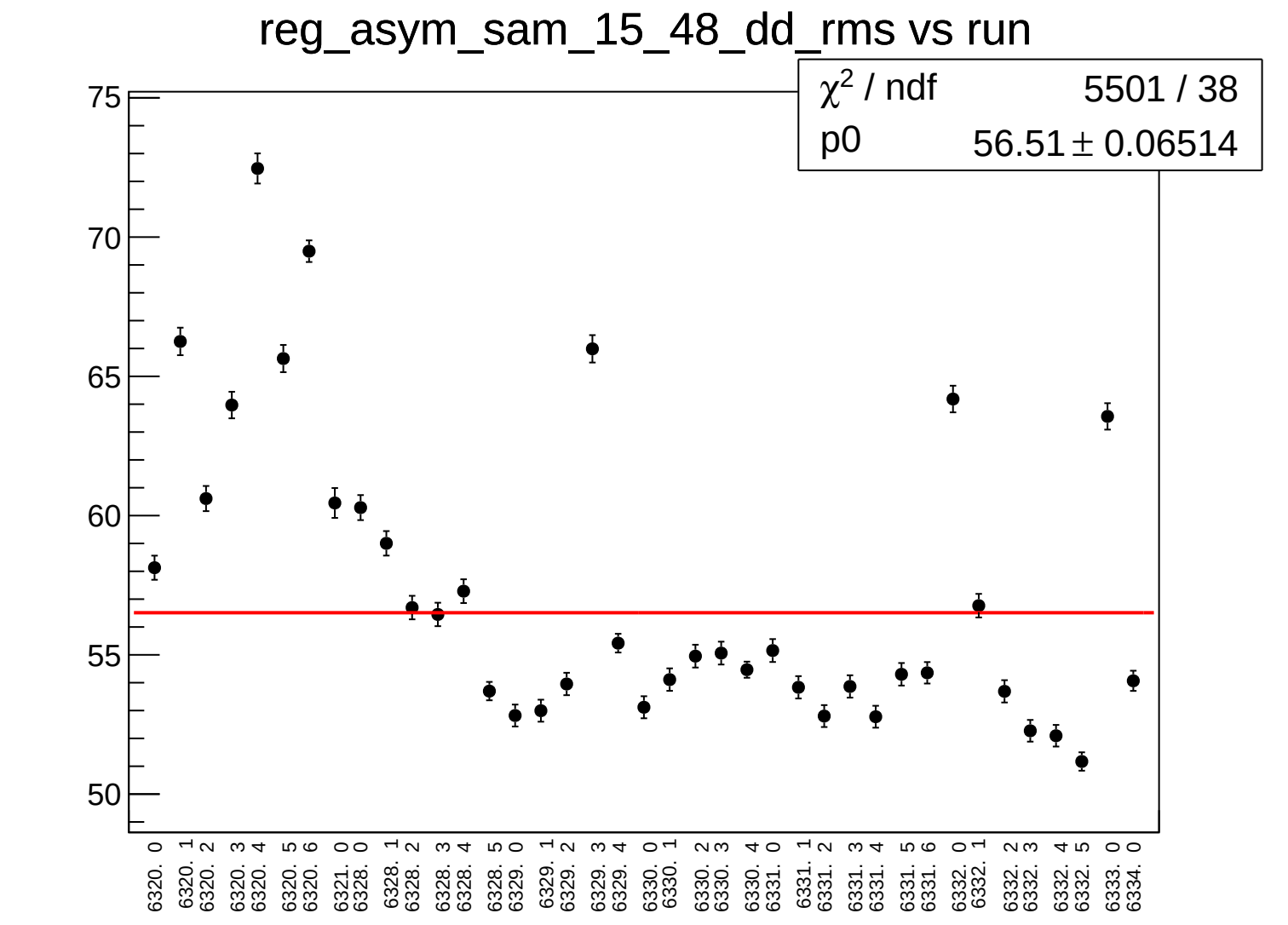

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.71 / 38
p0 2.879e−14 ± 2.753e−14
pull
Entries 39
Mean 54.33
Std Dev 0

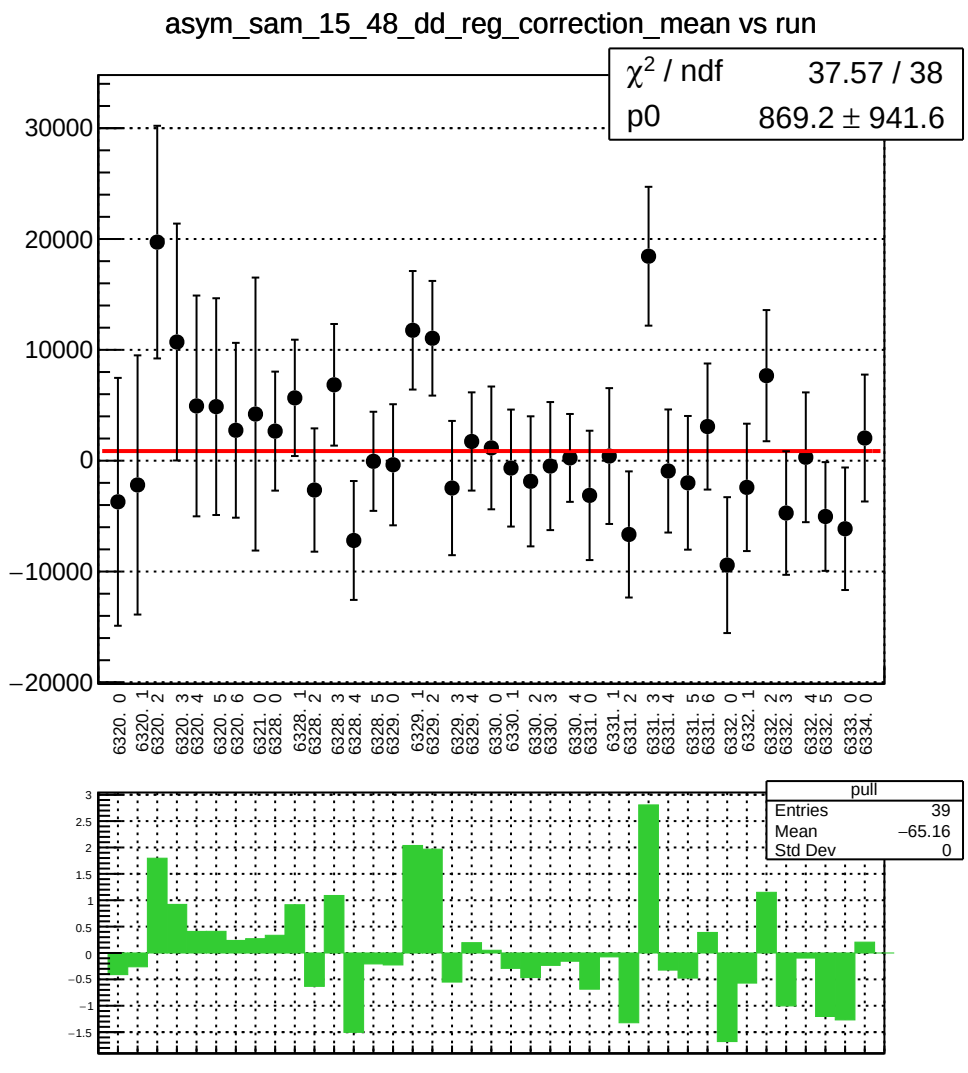

pull1D
Entries 39
Mean −0.01363
Std Dev 1.094

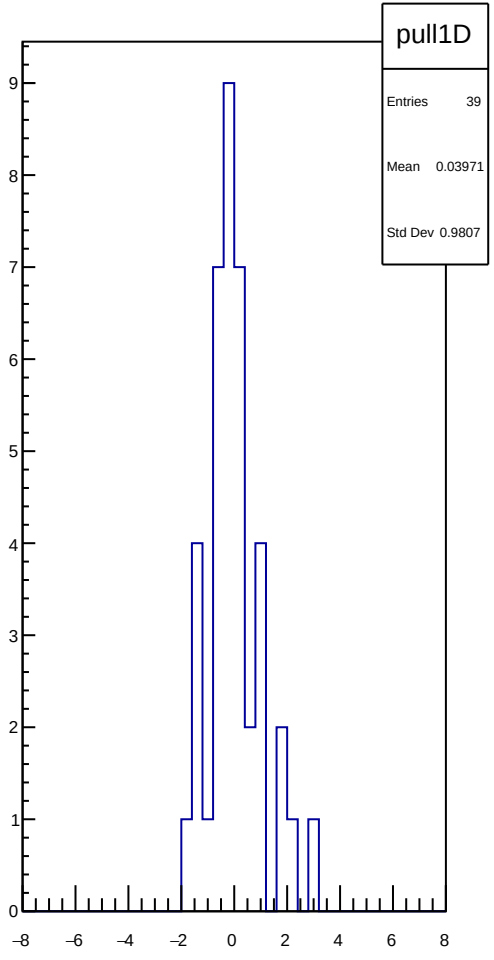

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.773e+05 / 38
p0 1.35e−11 ± 1.947e−14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

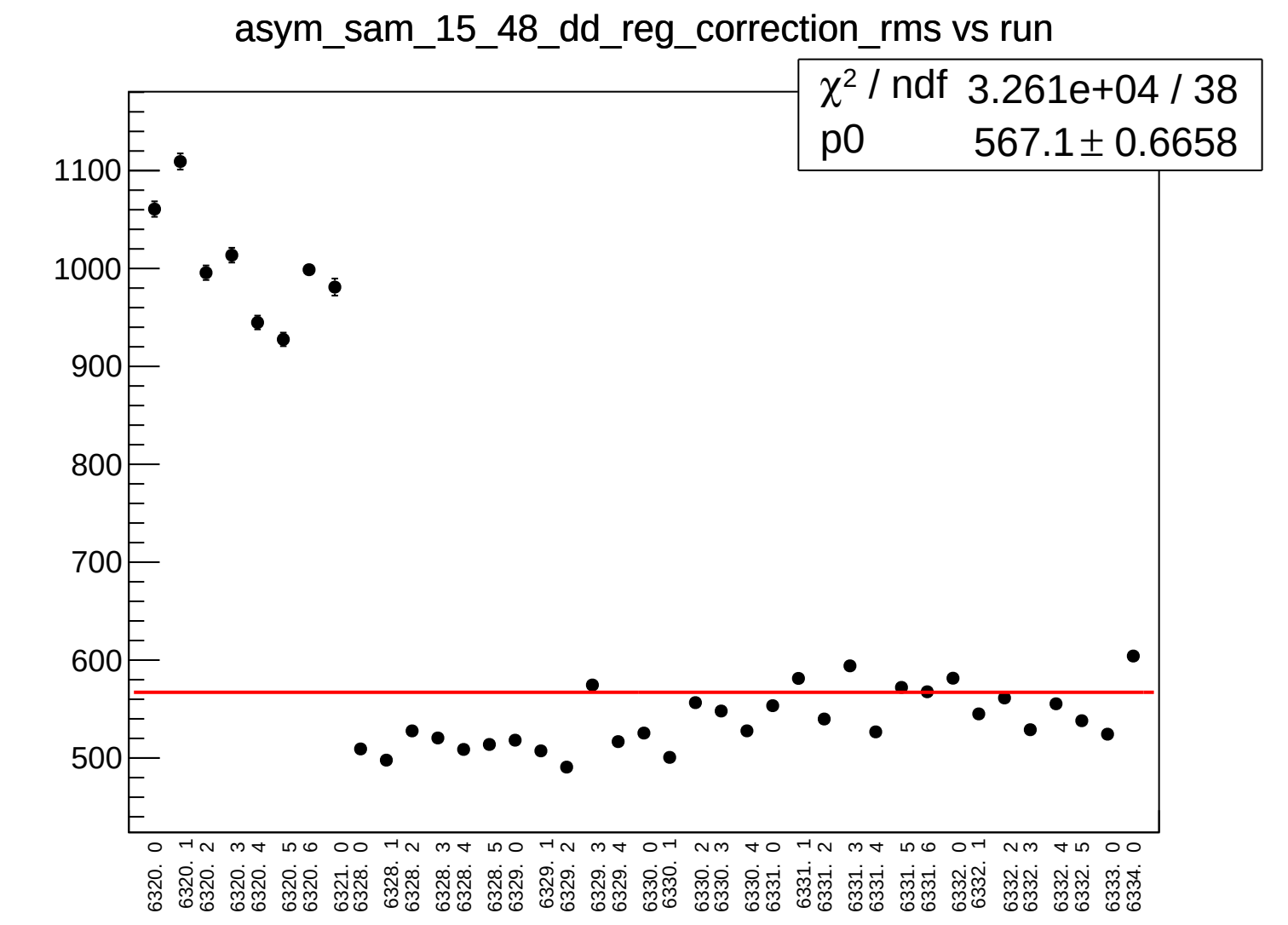

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.42 / 38
p0 44.37 ± 92.12
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −34.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

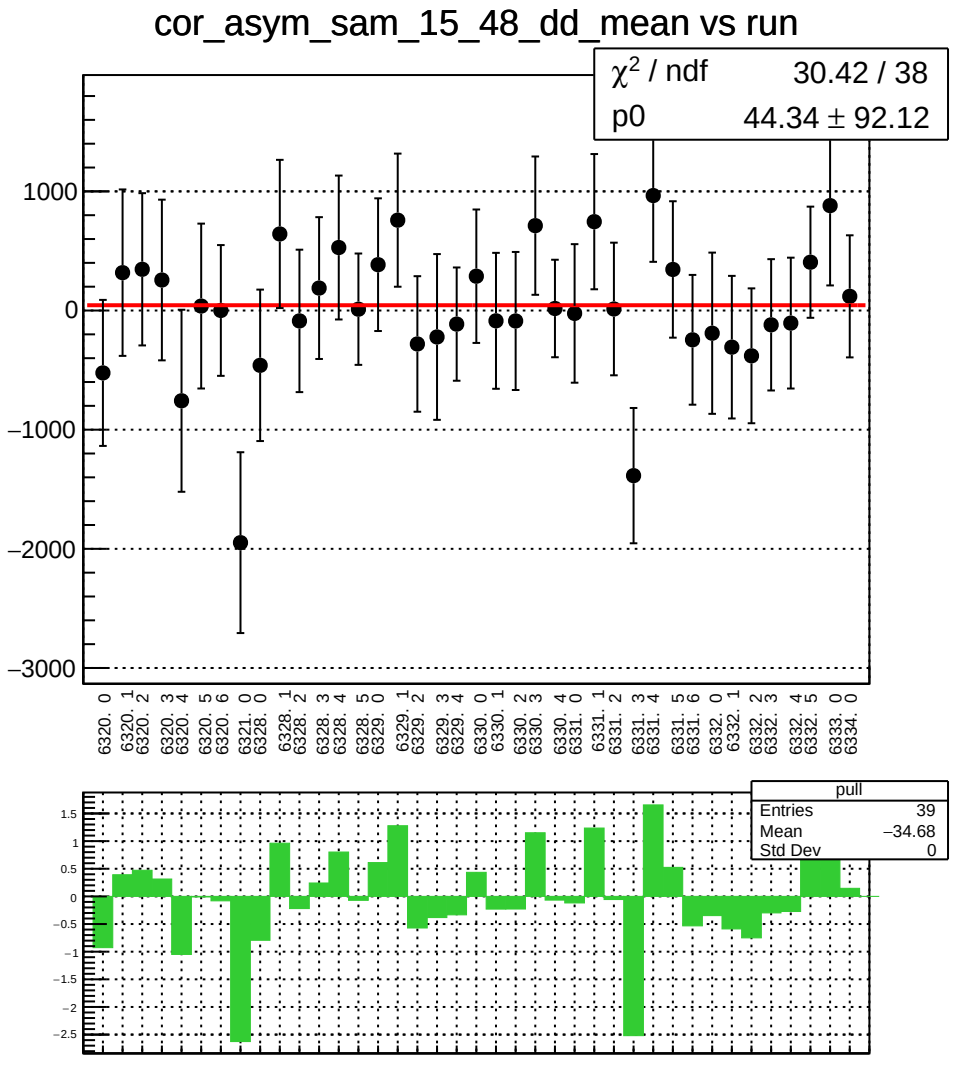

pull1D
Entries 39
Mean −0.02123
Std Dev 0.8829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

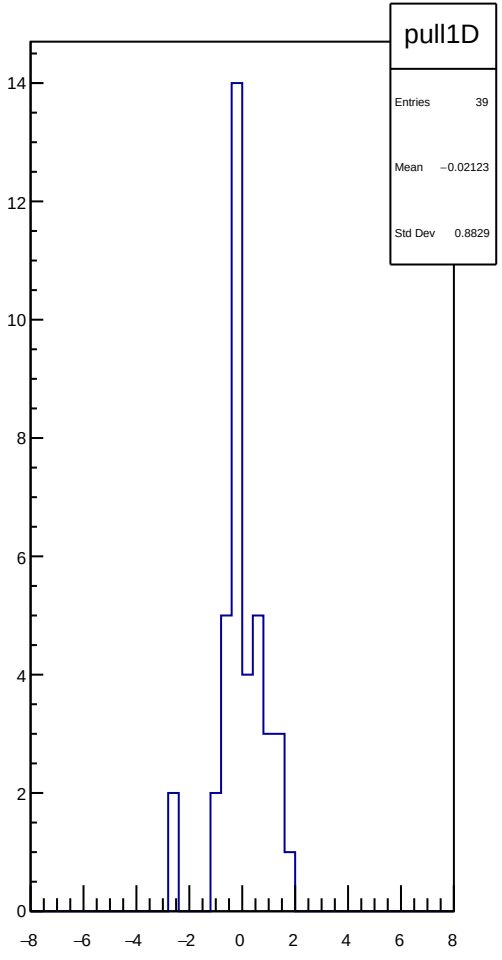

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 5501 / 38
p0 56.51 ± 0.06514
75
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

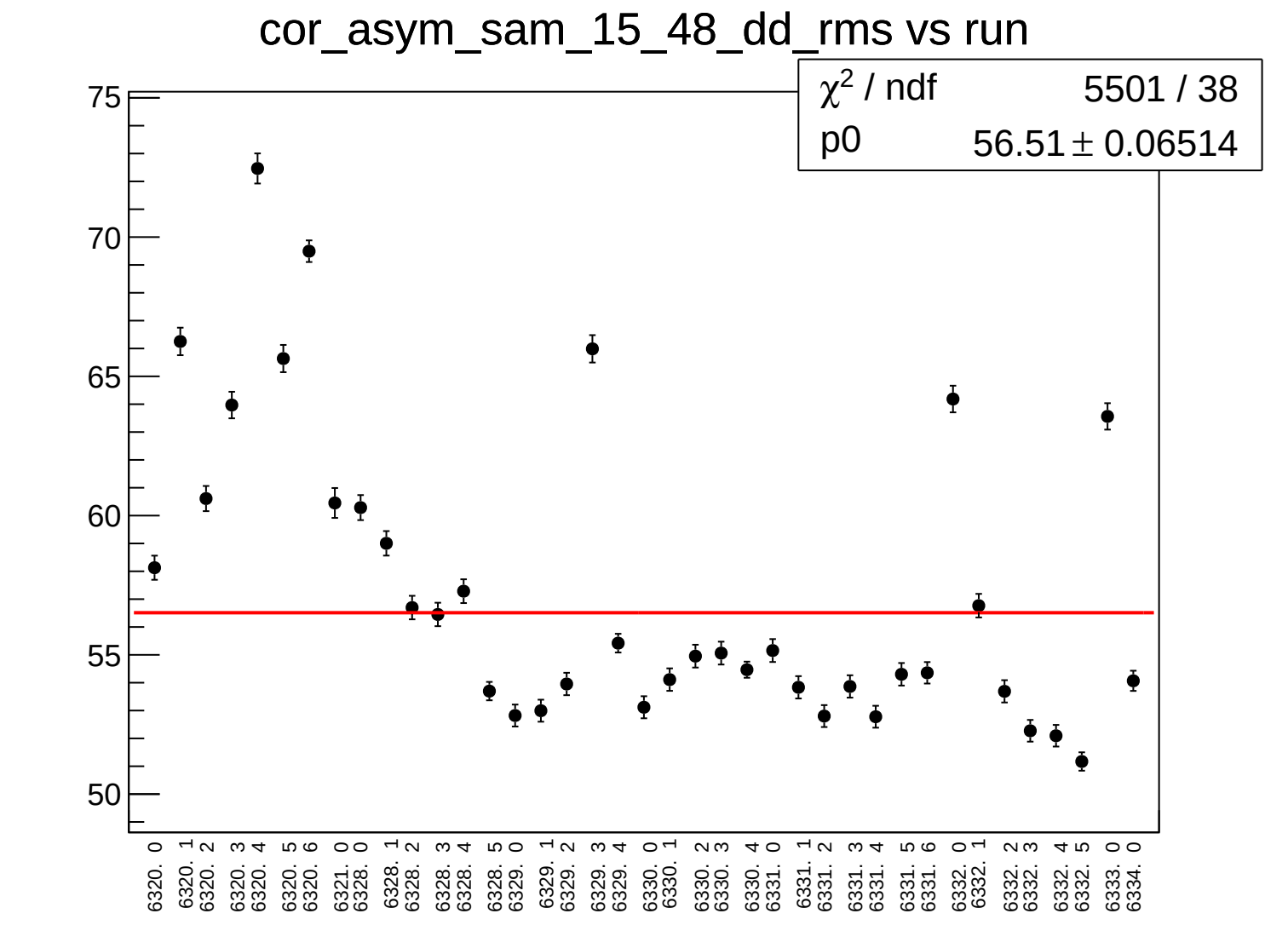

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 37.57 / 38
p0 869.2 ± 941.6
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −65.16
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

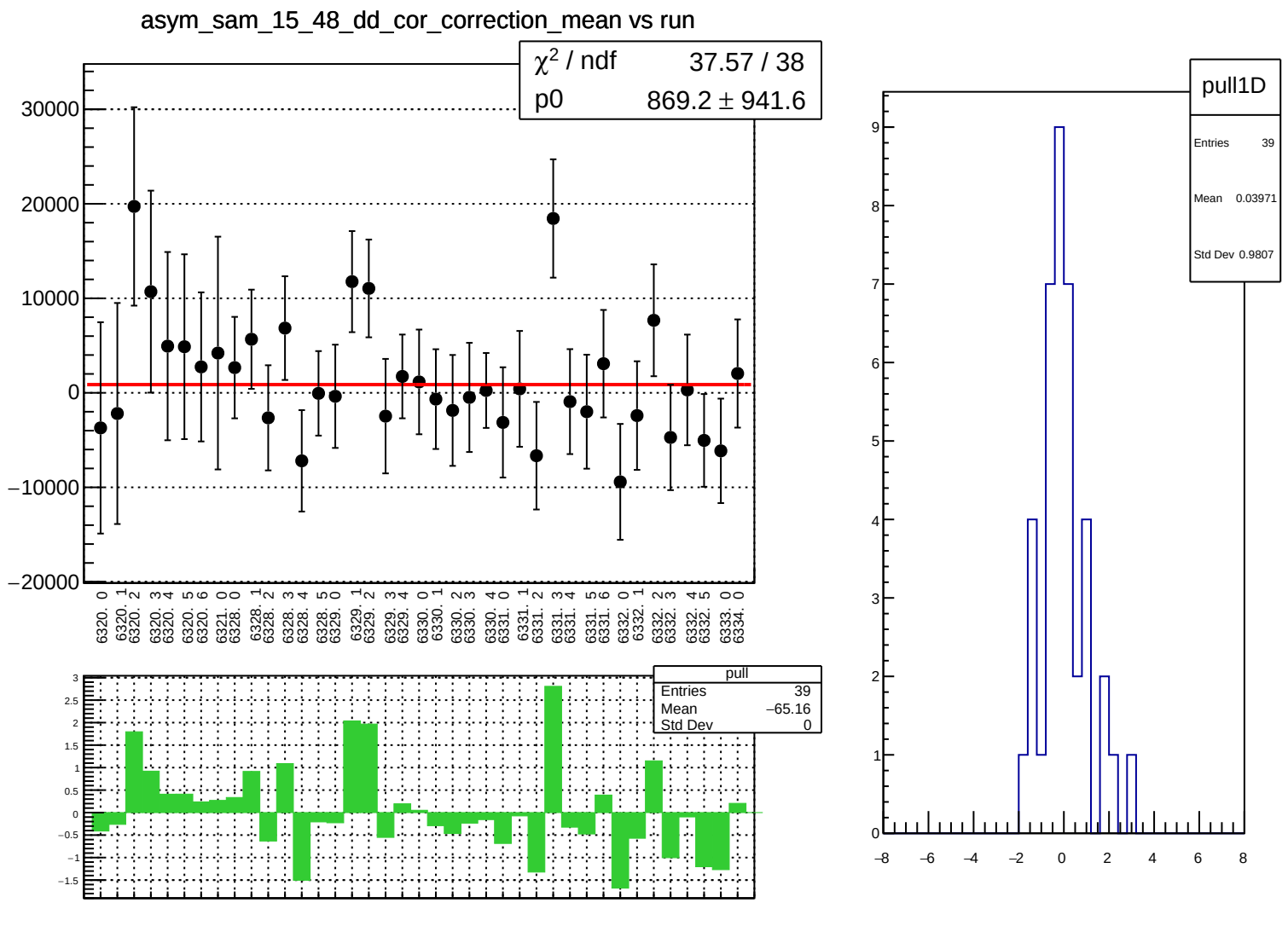

pull1D
Entries 39
Mean 0.03971
Std Dev 0.9807
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3.261e+04 / 38
p0 567.1 ± 0.6658
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.42 / 38
p0 44.34 ± 92.12
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −34.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02123
Std Dev 0.8829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5501 / 38
p0 56.51 ± 0.06514
75
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 37.57 / 38
p0 869.2 ± 941.6
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
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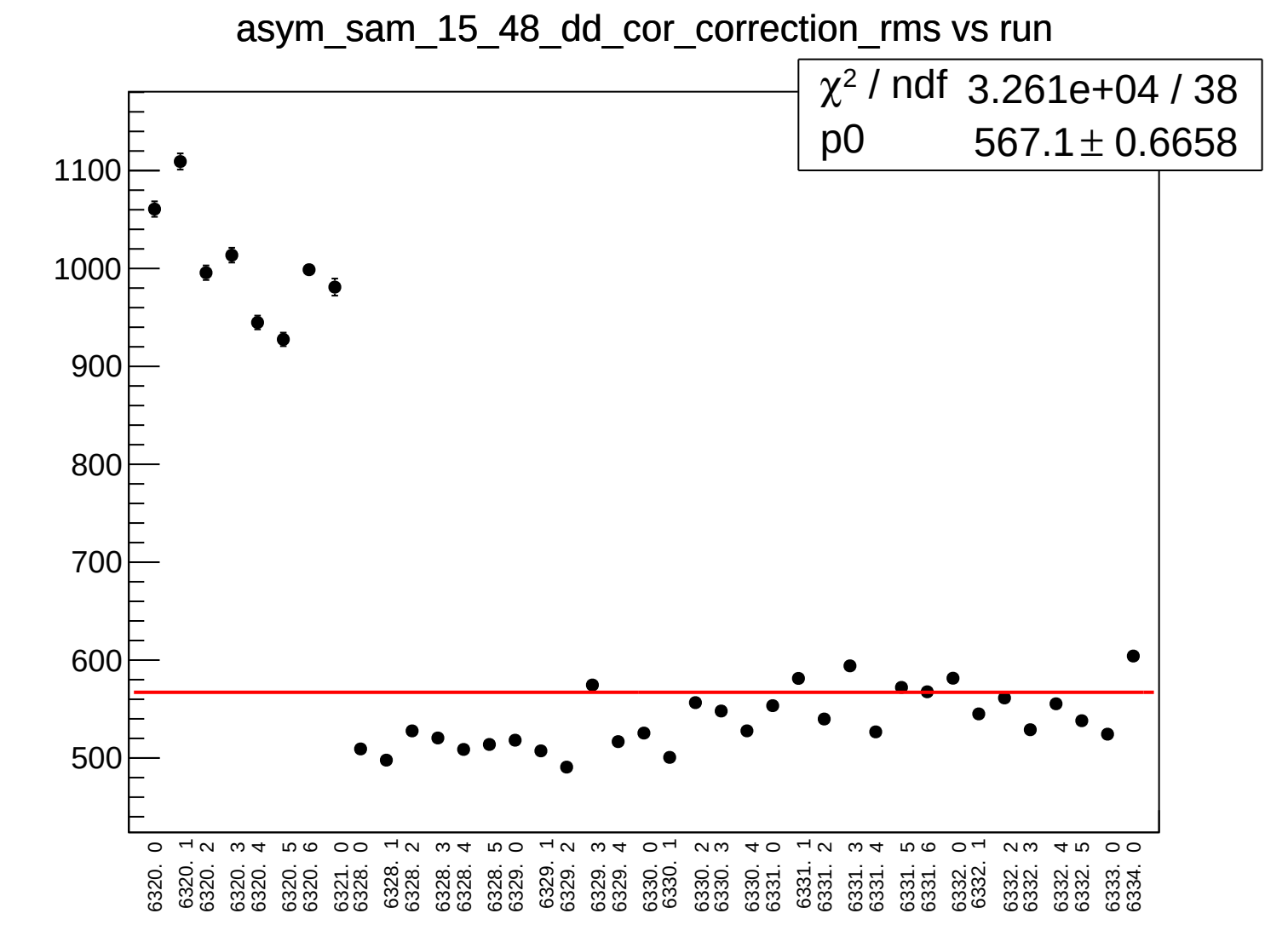
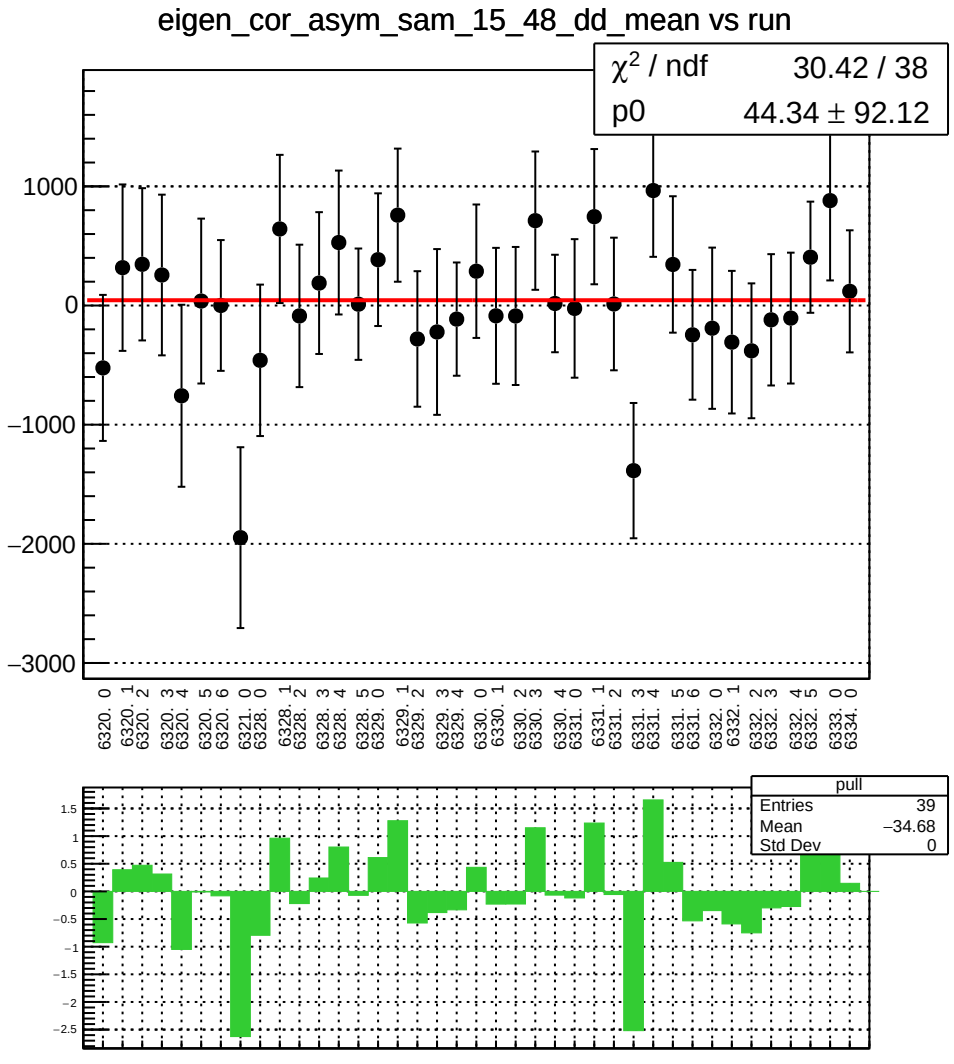
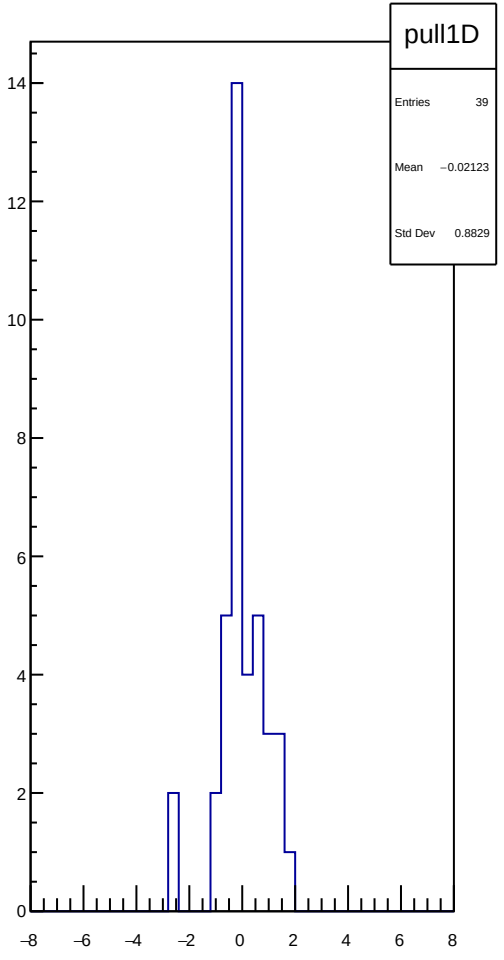
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −65.16
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03971
Std Dev 0.9807
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3.261e+04 / 38
p0 567.1 ± 0.6658
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.42 / 38
p0 44.34 ± 92.12
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −34.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.02123
Std Dev 0.8829
14
12
10
8
6
4
2
0
−8
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−4
−2
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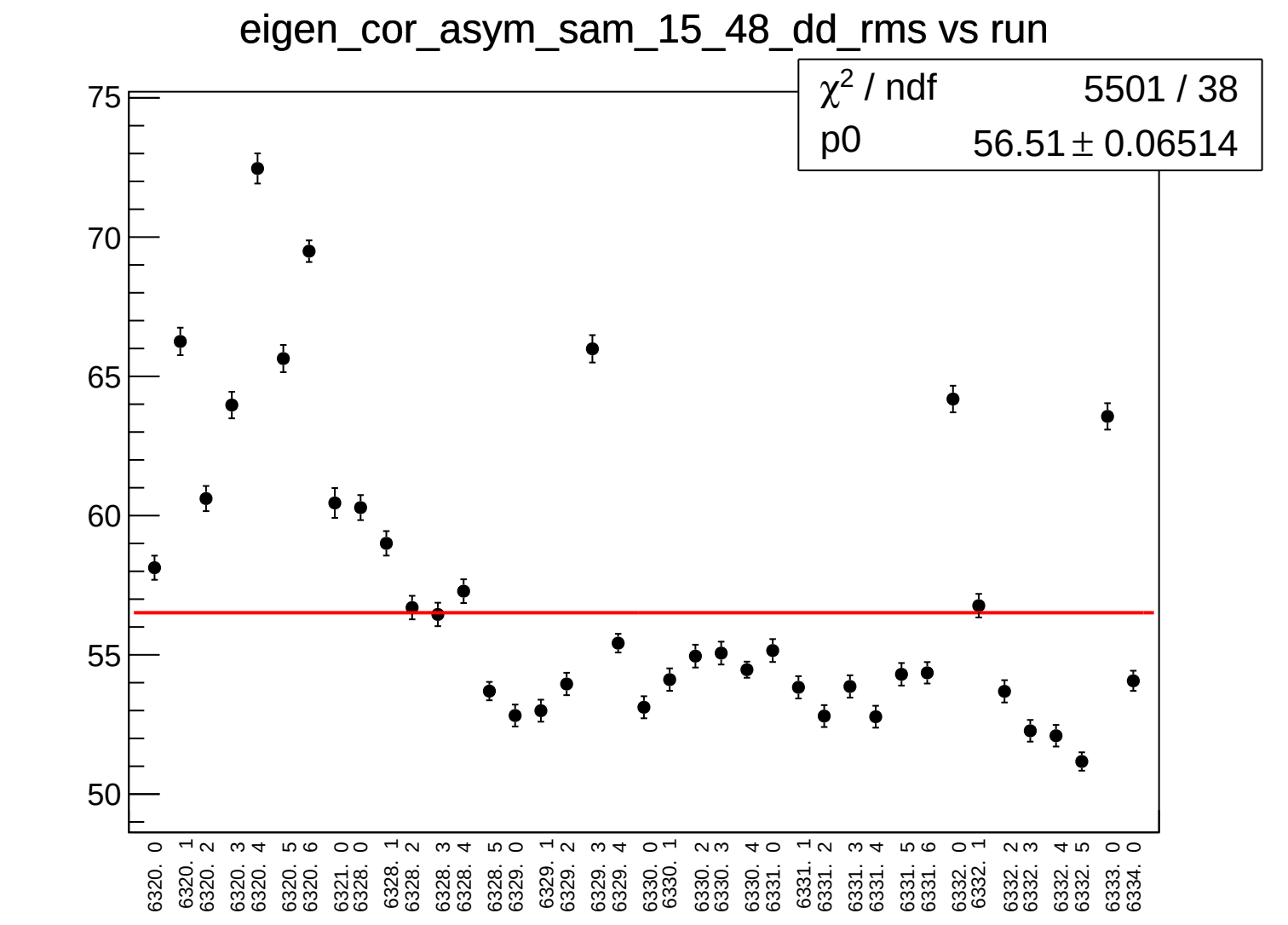
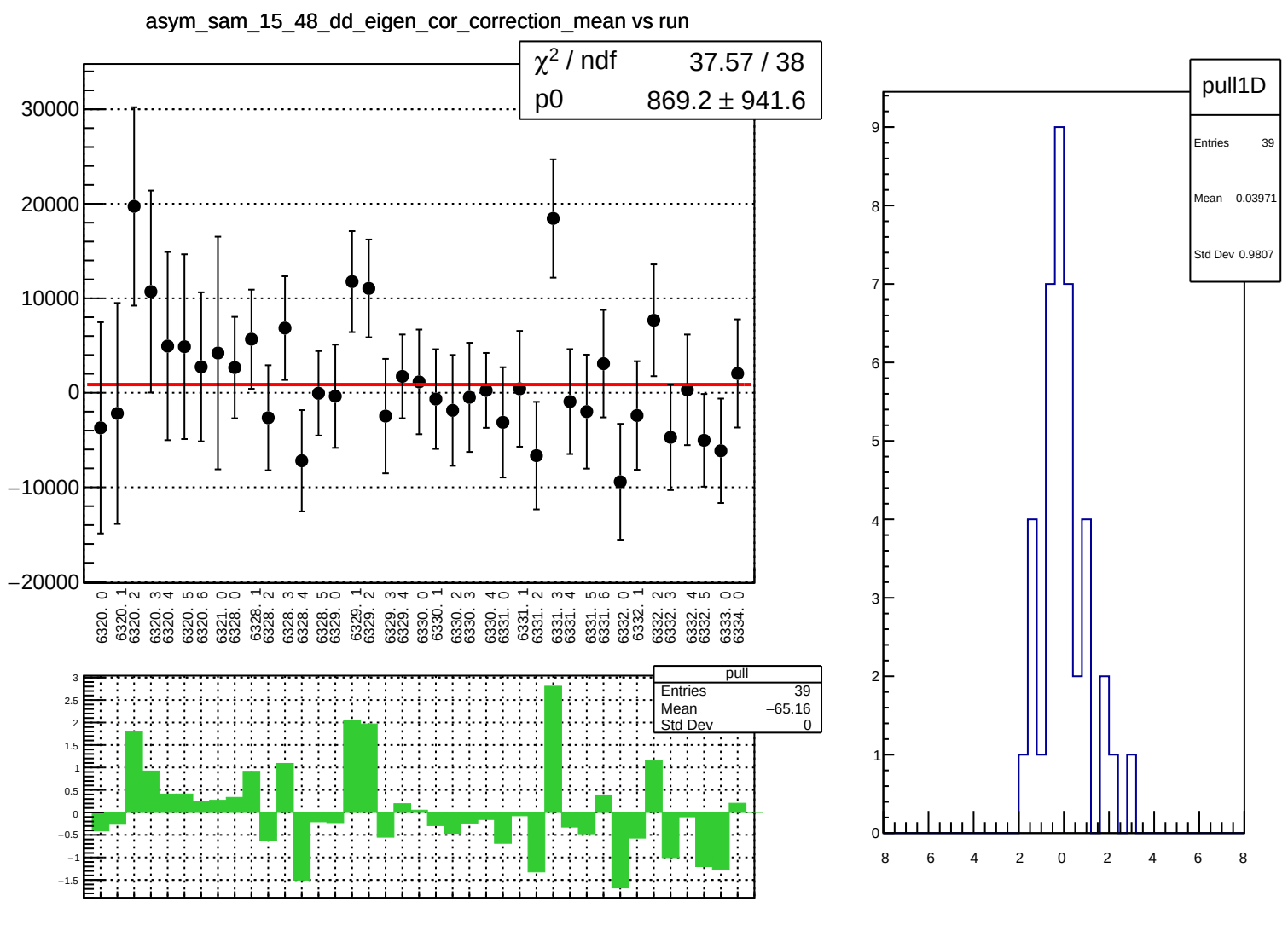
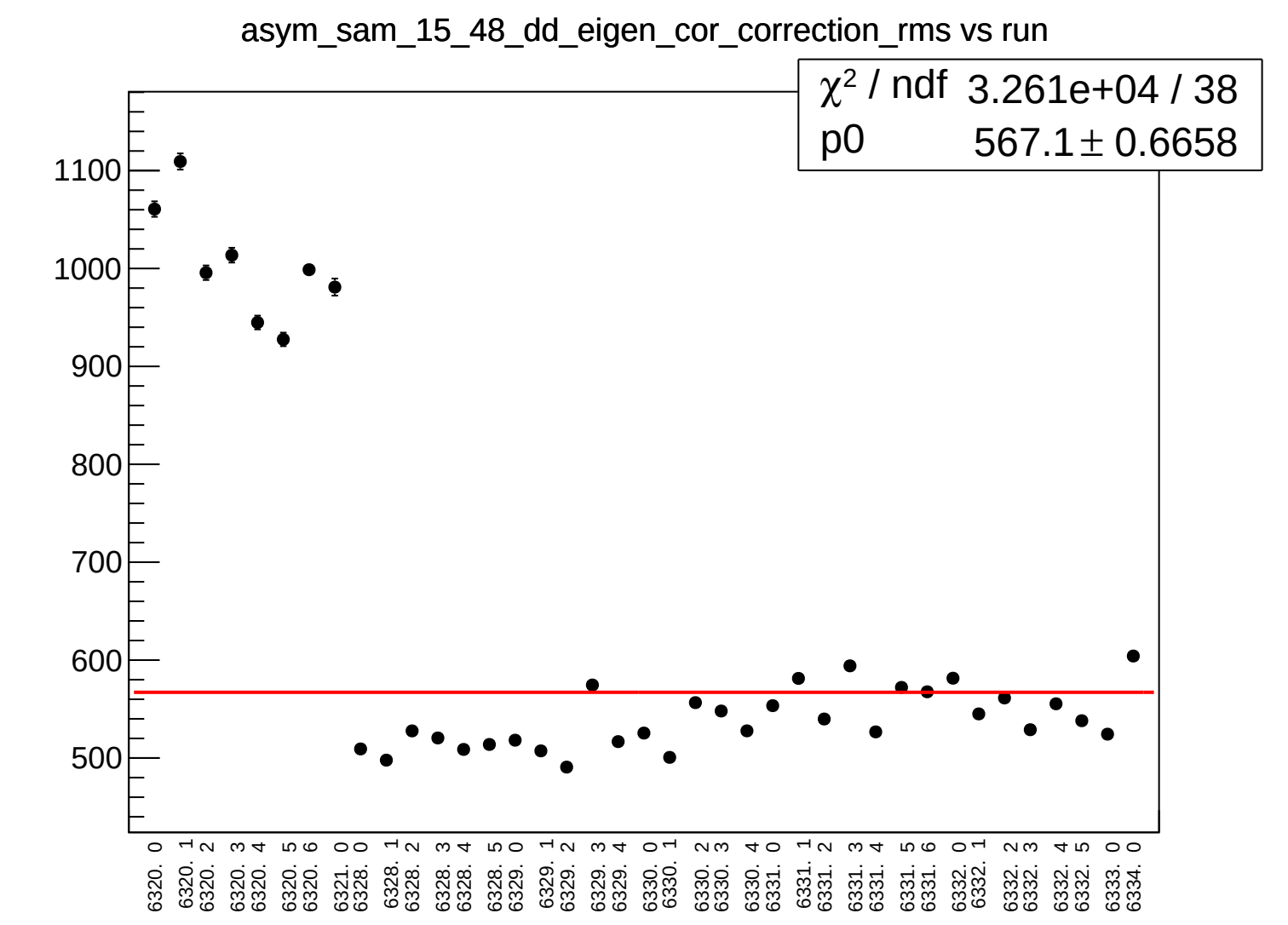
2
4
6
8


eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5501 / 38
p0 56.51 ± 0.06514
75
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.57 / 38
p0 869.2 ± 941.6
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −65.16
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03971
Std Dev 0.9807
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.261e+04 / 38
p0 567.1 ± 0.6658
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
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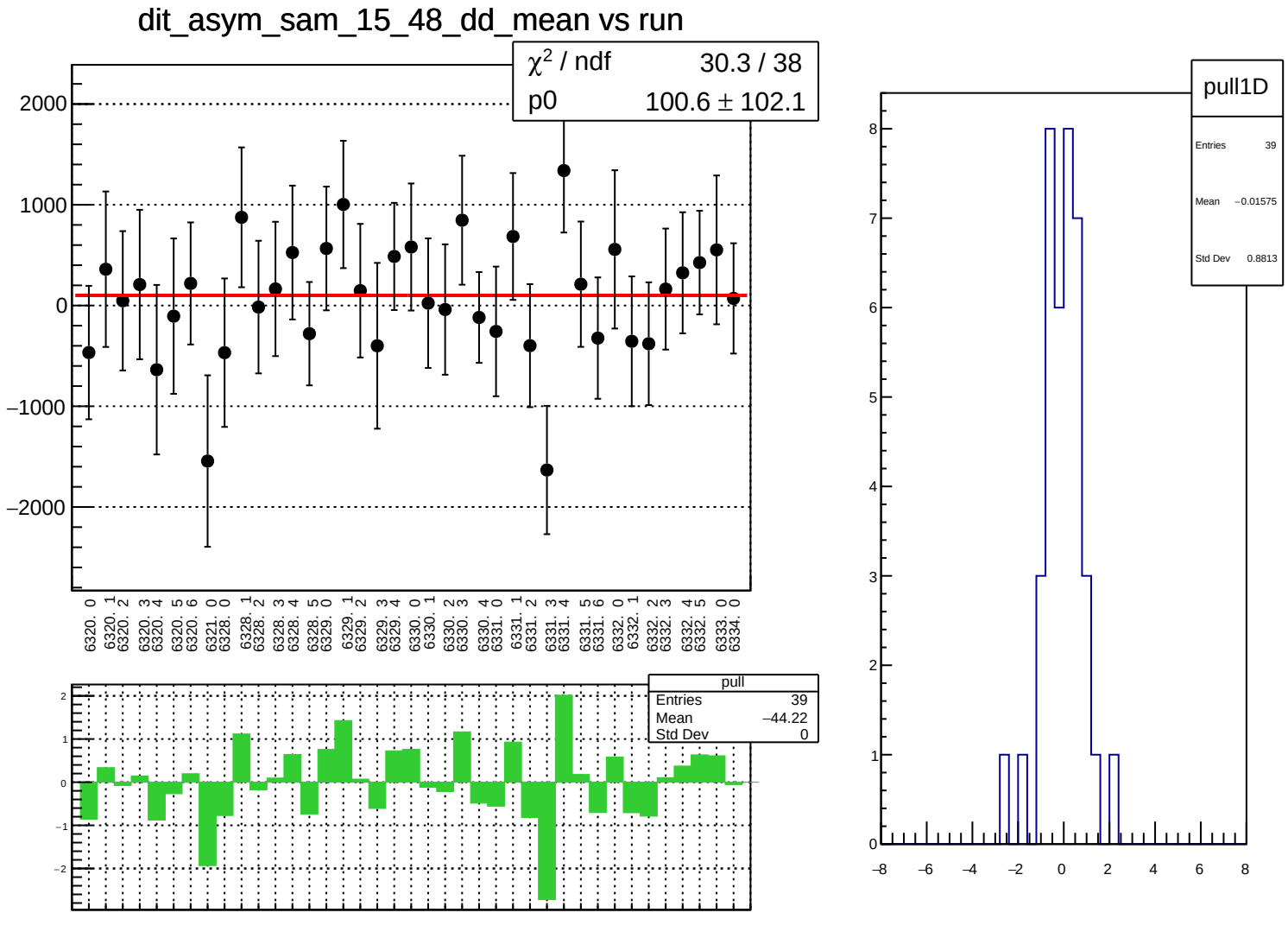
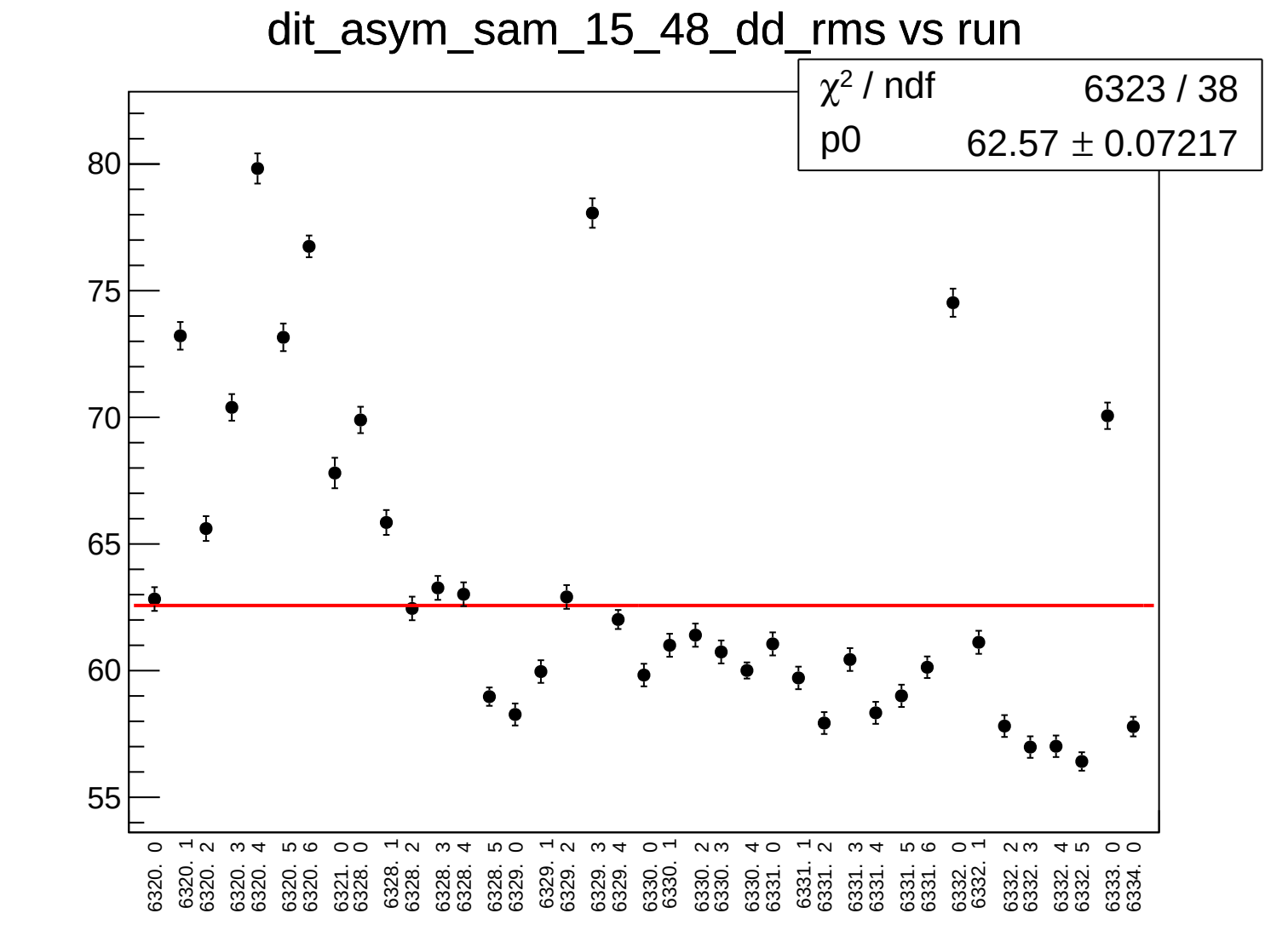
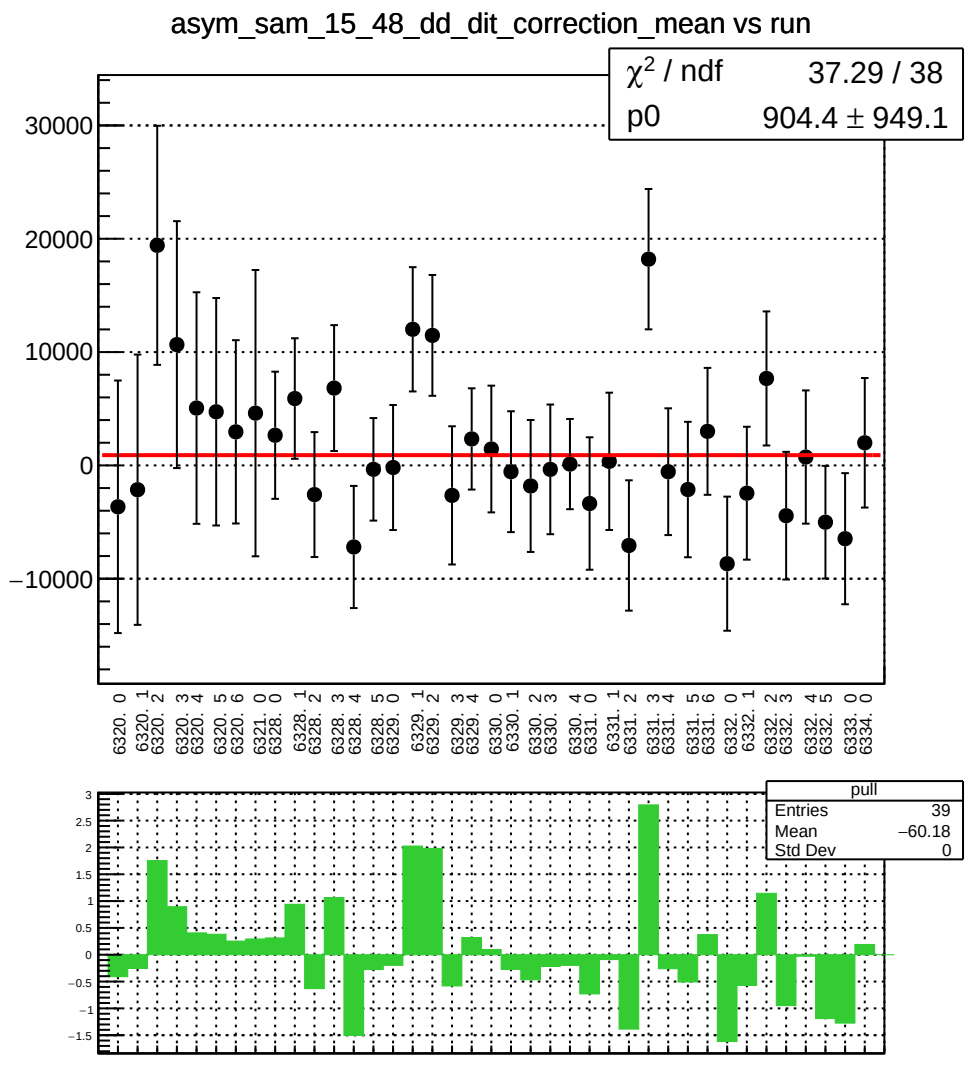
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.3 / 38
p0 100.6 ± 102.1
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −44.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01575
Std Dev 0.8813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6323 / 38
p0 62.57 ± 0.07217
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 37.29 / 38
p0 904.4 ± 949.1
30000
20000
10000
0
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
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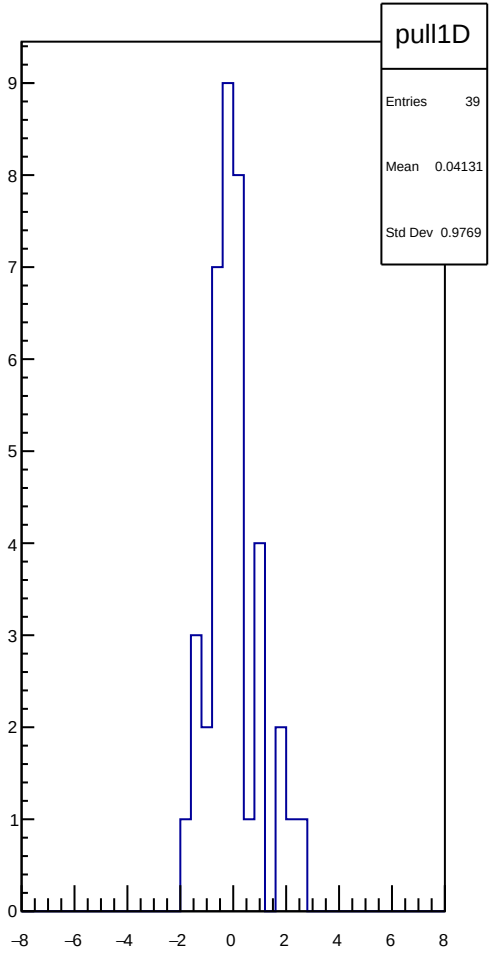
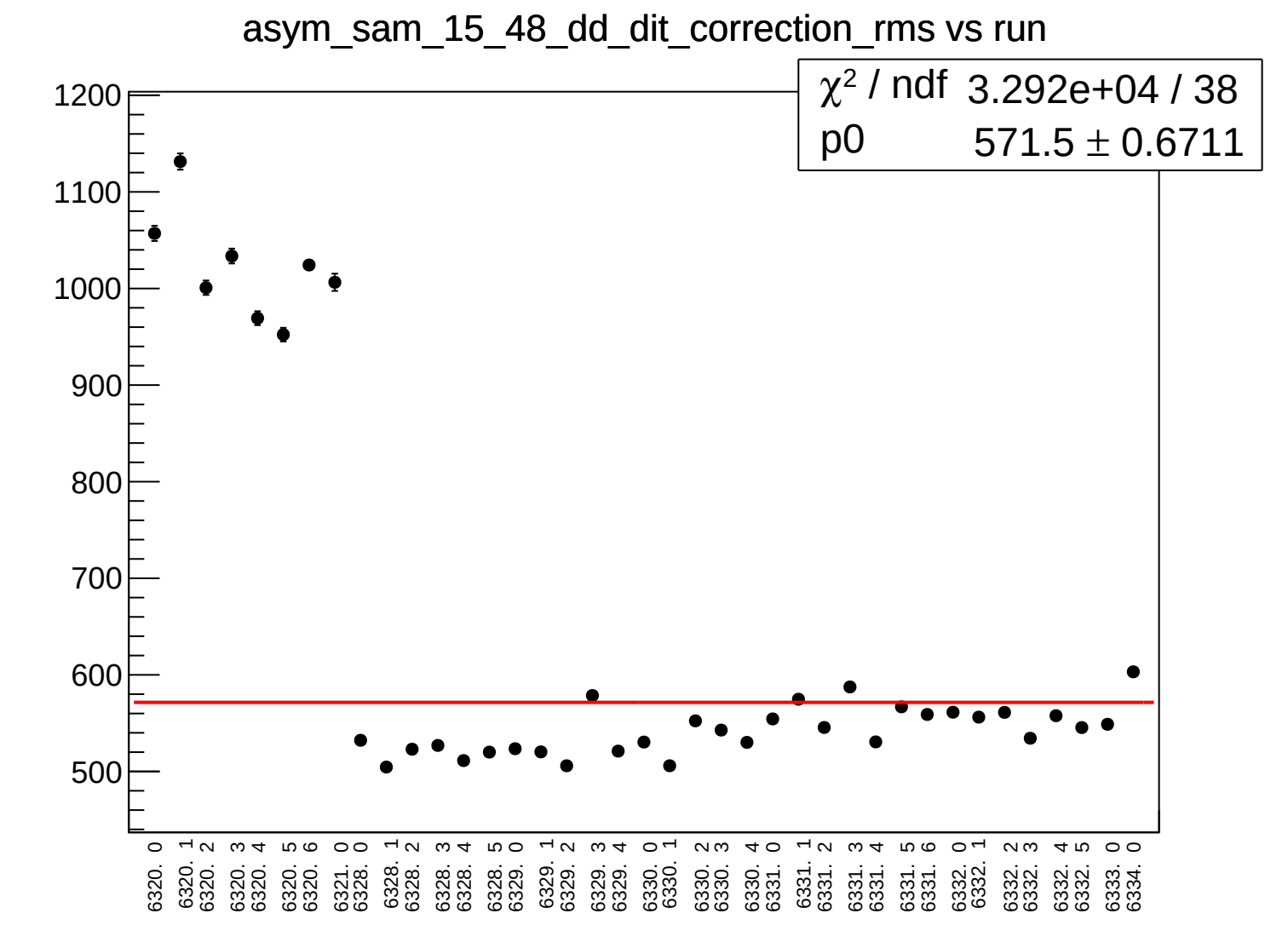
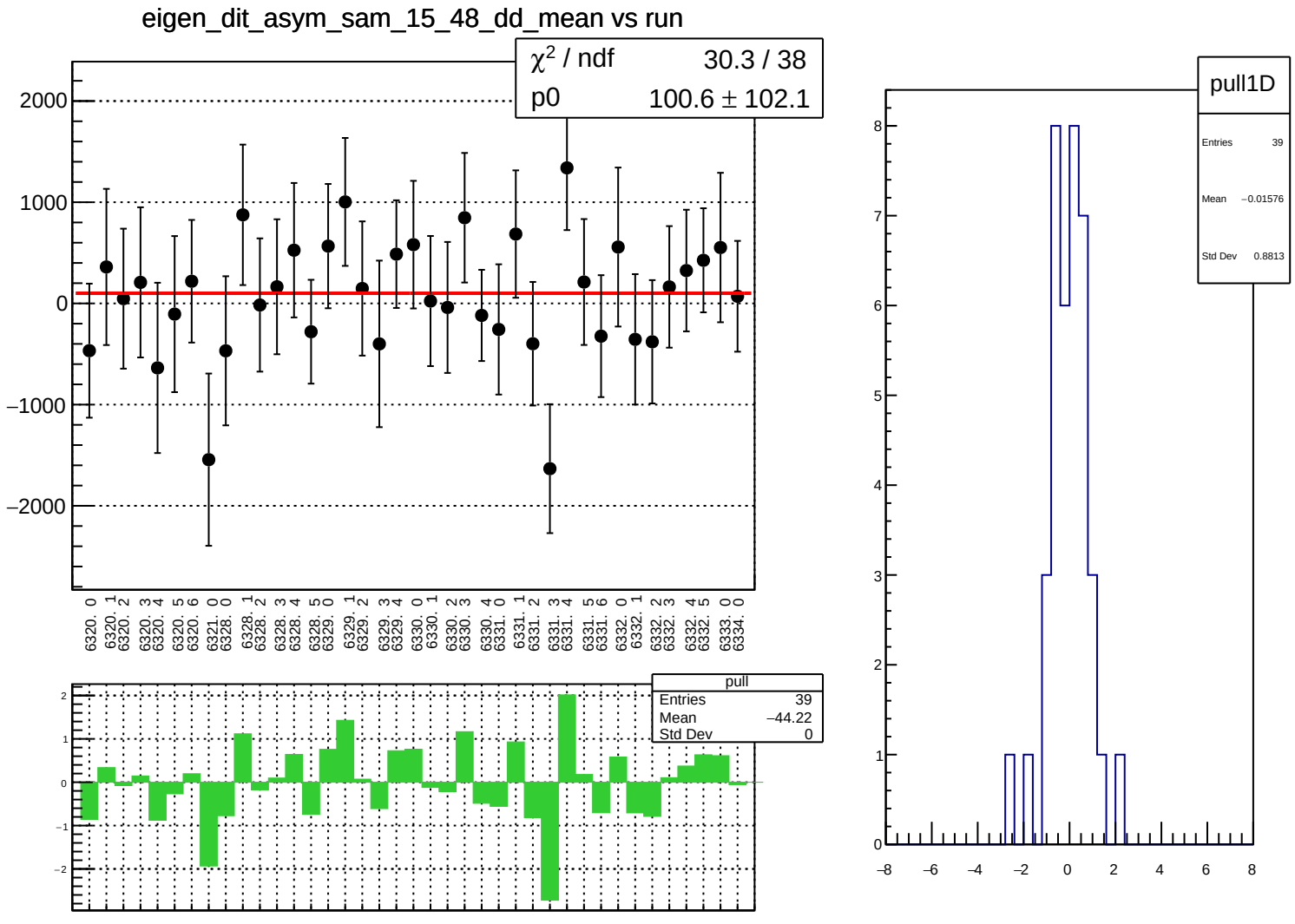
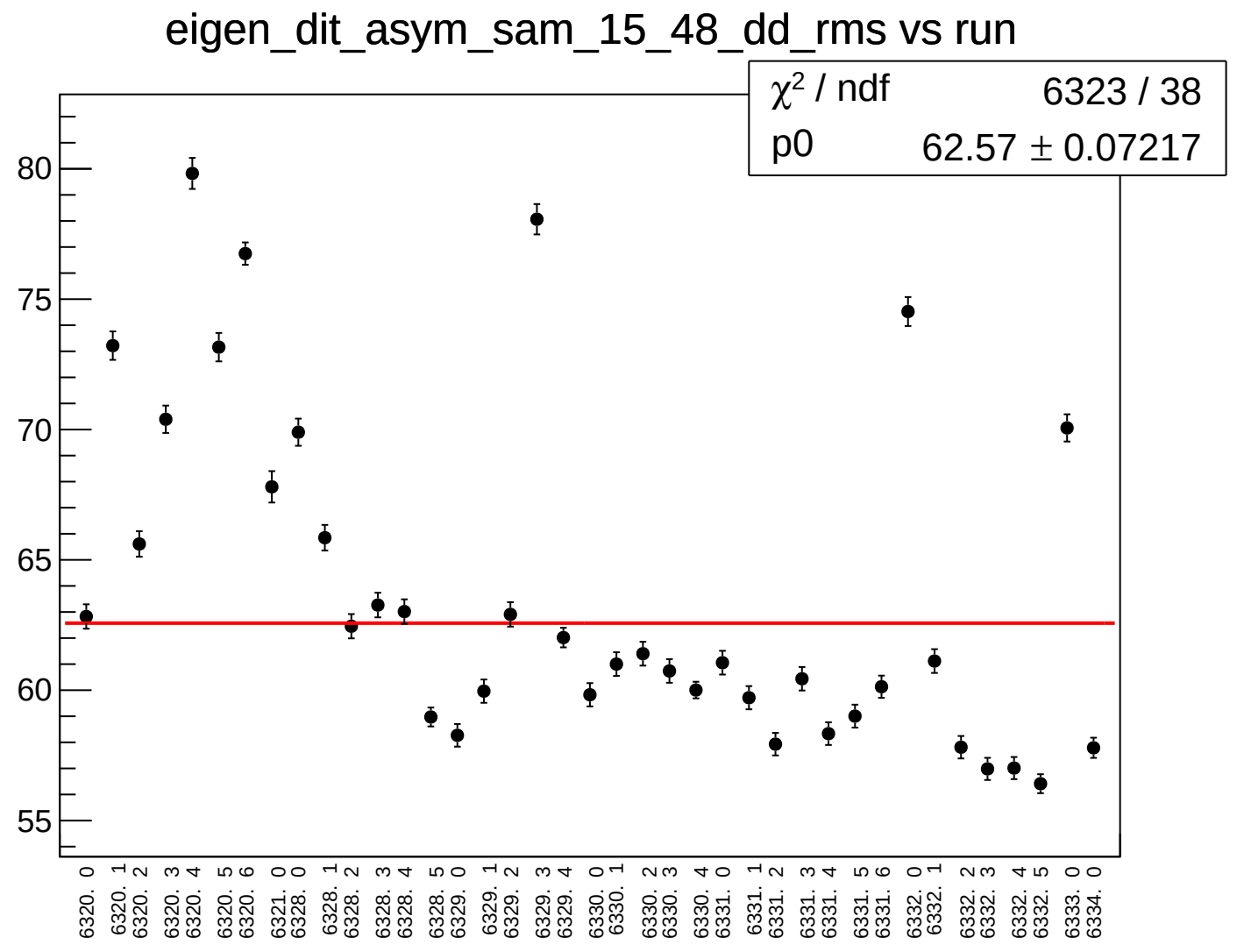
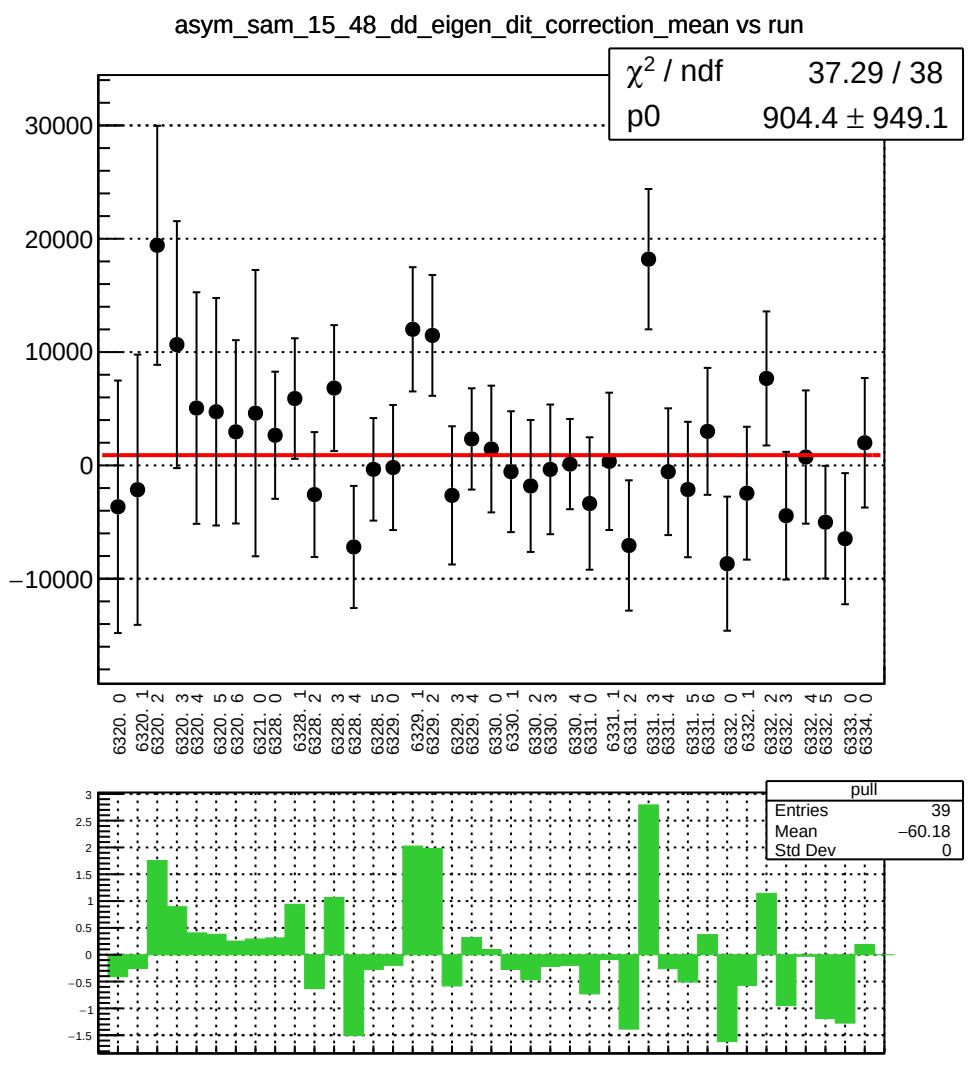
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.18
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

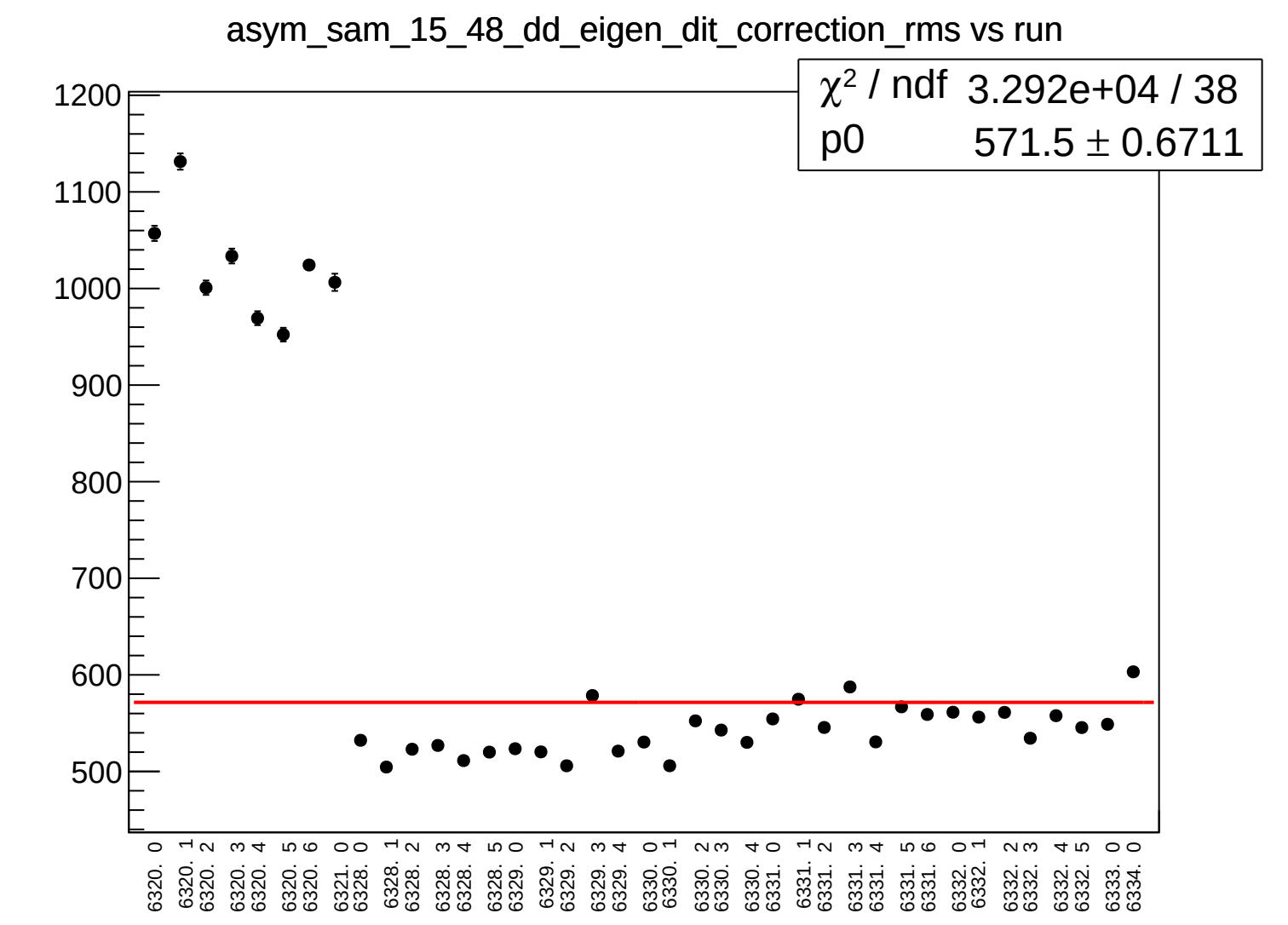

pull1D
Entries 39
Mean 0.04131
Std Dev 0.9769
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

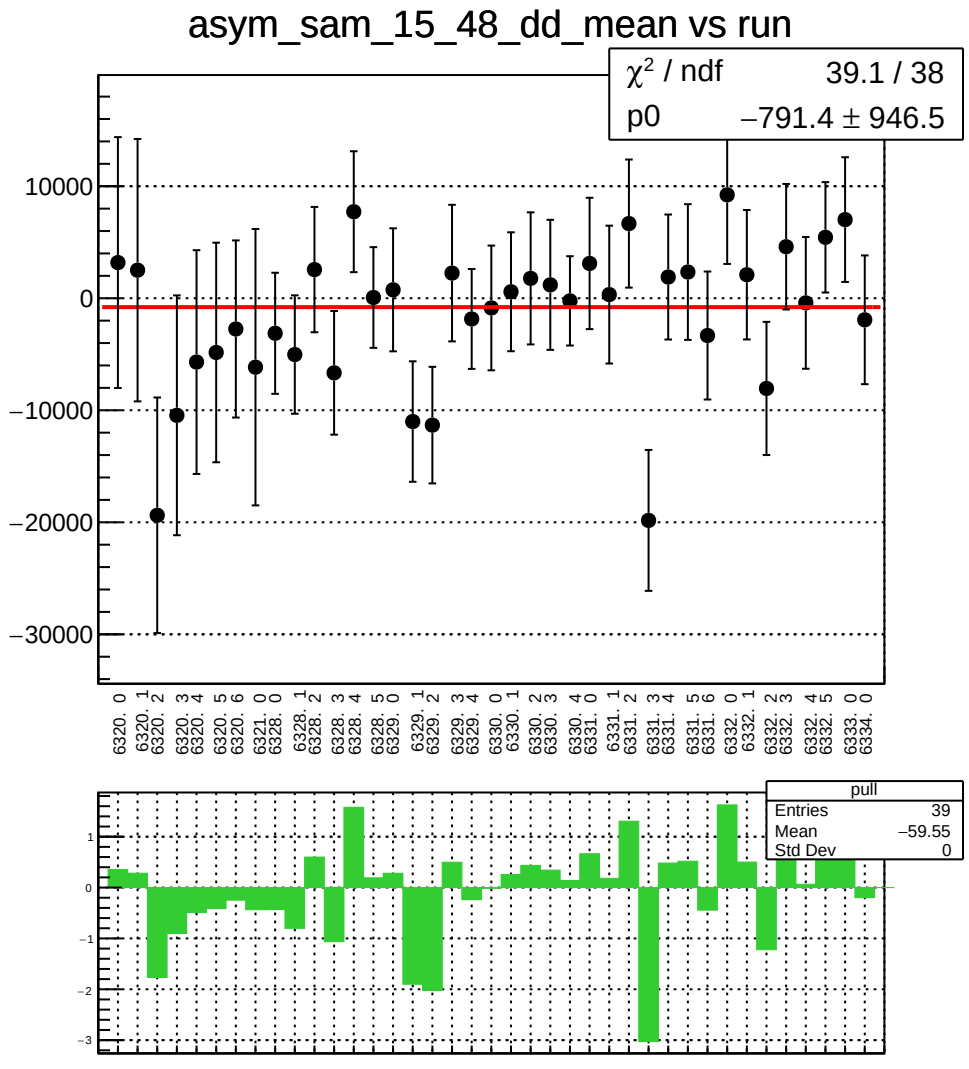

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3.292e+04 / 38
p0 571.5 ± 0.6711
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

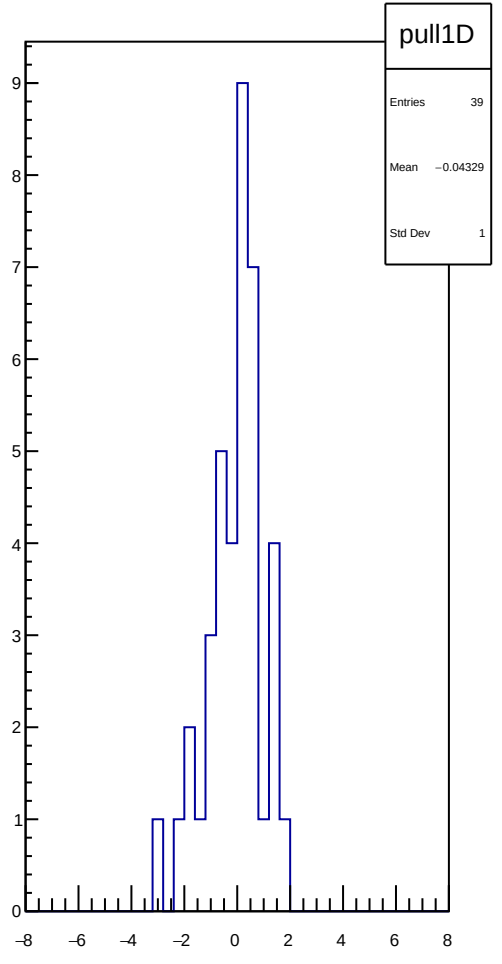

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 30.3 / 38
p0 100.6 ± 102.1
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −44.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01576
Std Dev 0.8813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

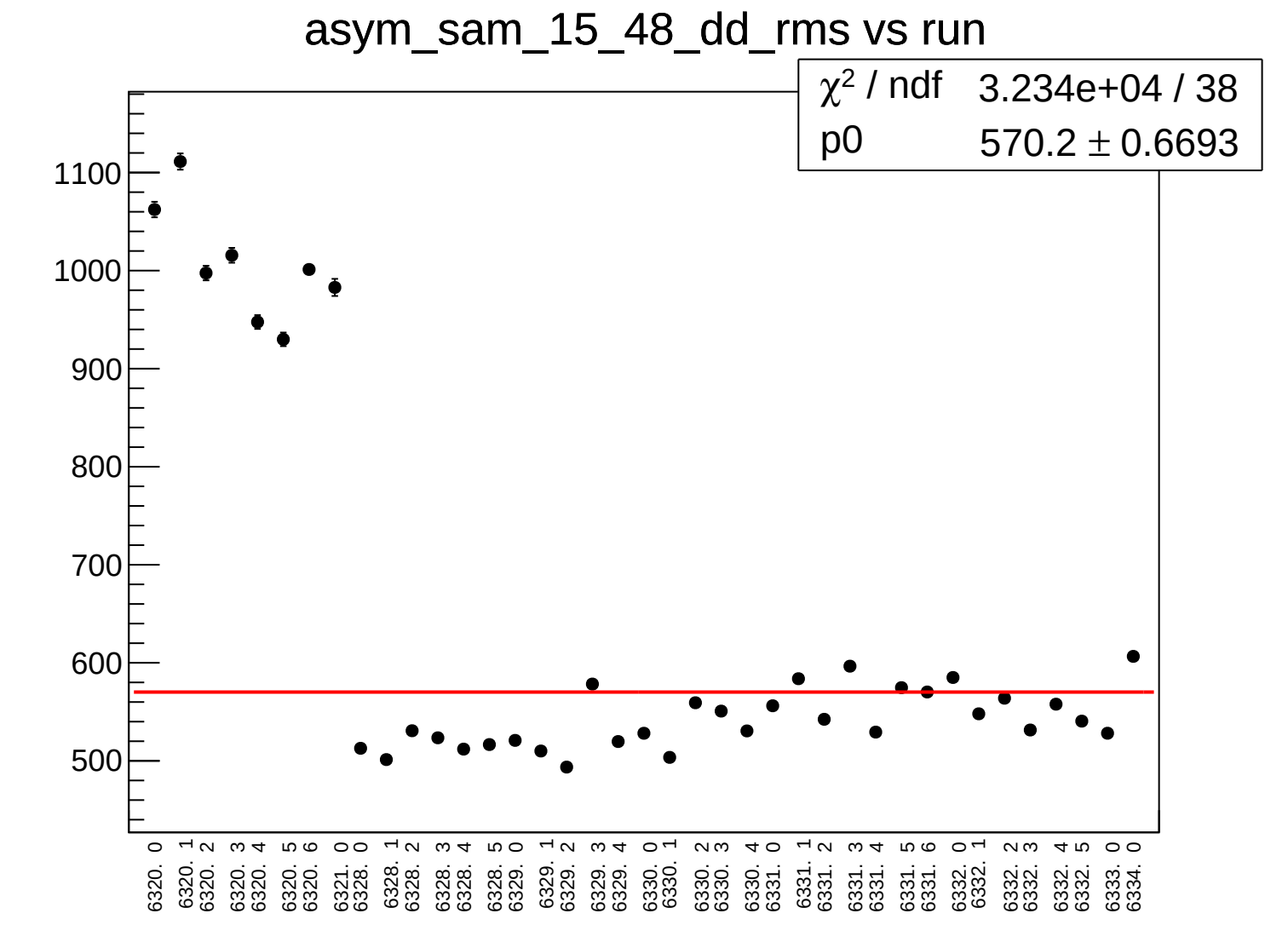

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6323 / 38
p0 62.57 ± 0.07217
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

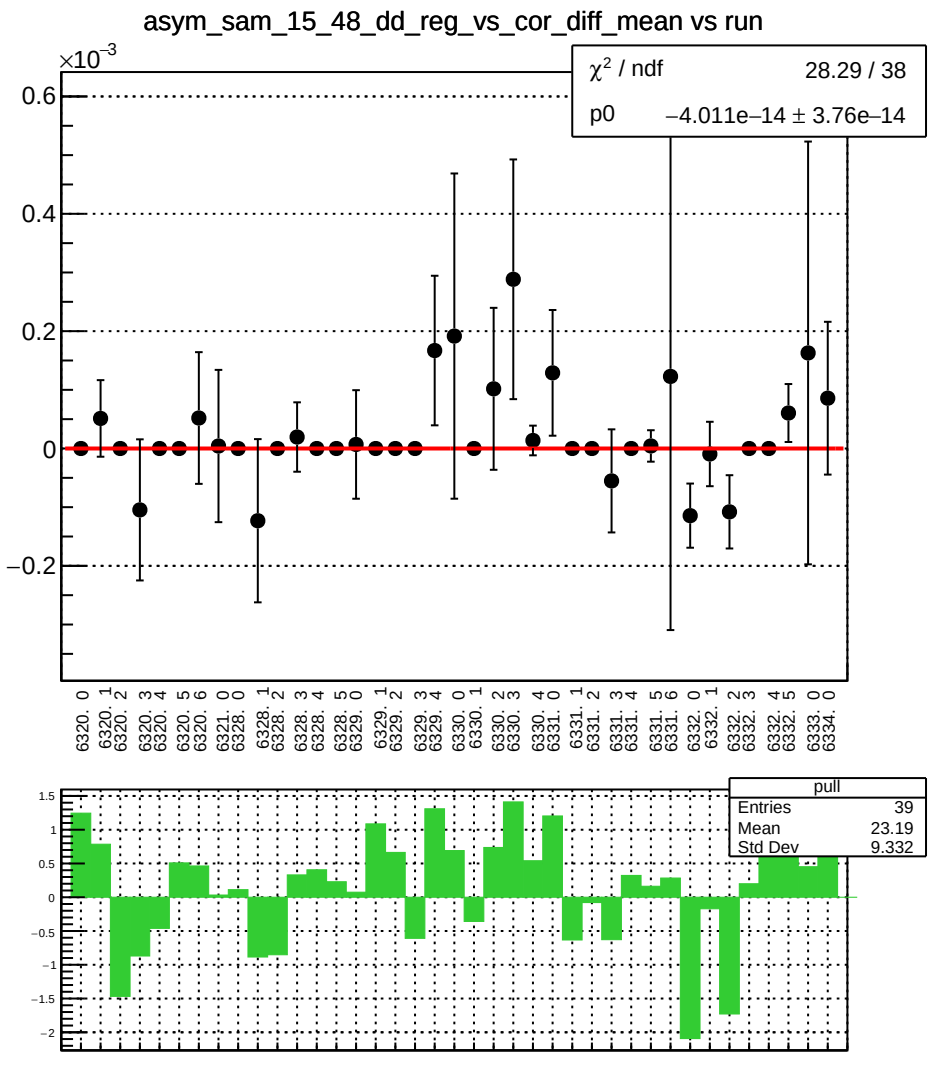

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.29 / 38
p0 904.4 ± 949.1
30000
20000
10000
0
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.18
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.04131
Std Dev 0.9769
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

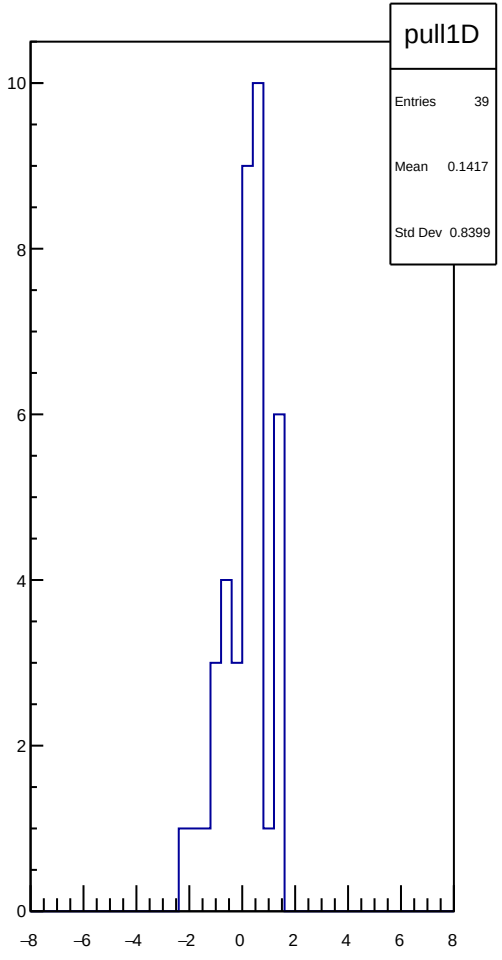

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.292e+04 / 38
p0 571.5 ± 0.6711
1200
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

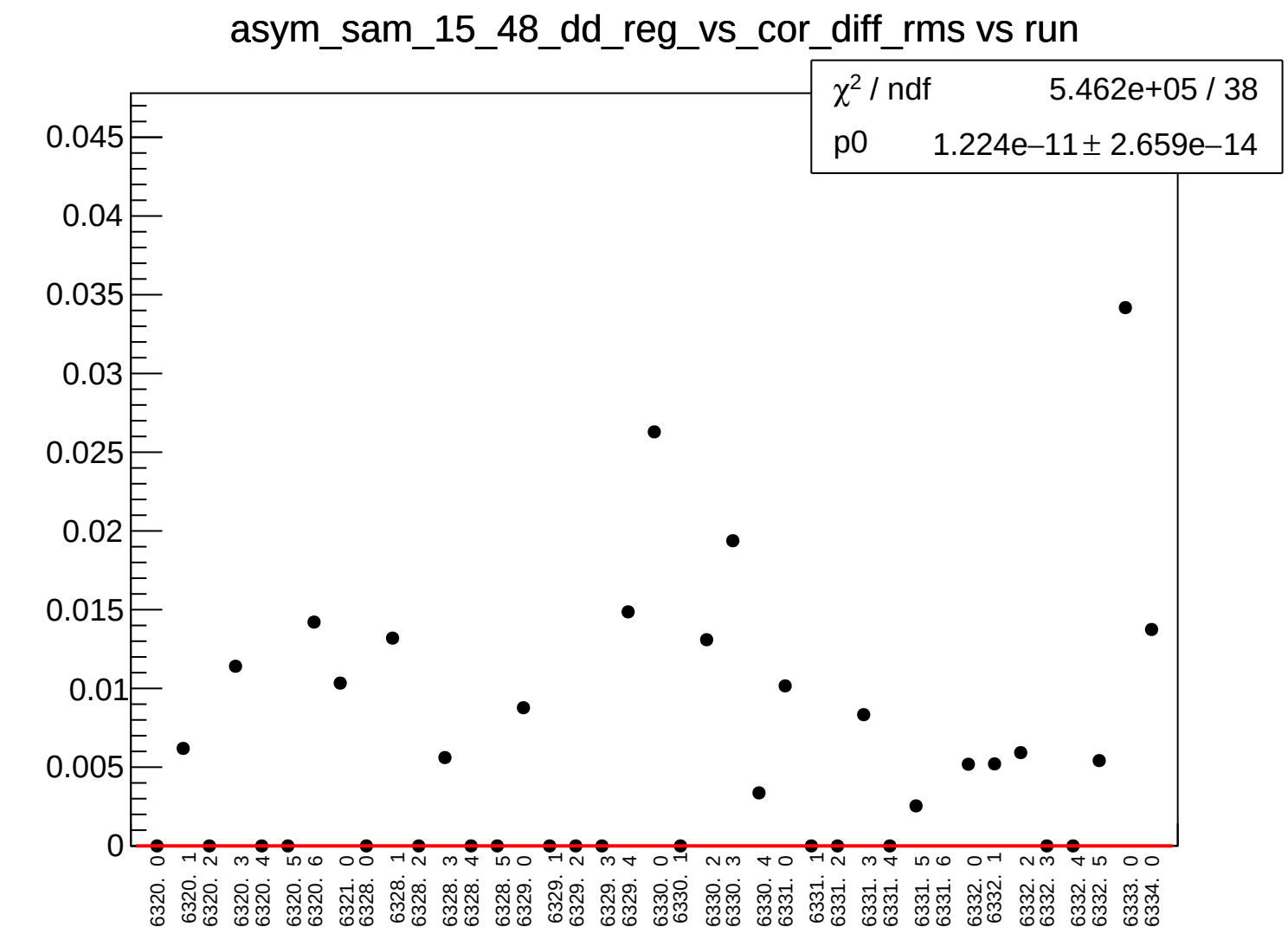

asym_sam_15_48_dd_mean vs run
χ² / ndf 39.1 / 38
p0 −791.4 ± 946.5
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −59.55
Std Dev 0
1
0
−1
−2
−3

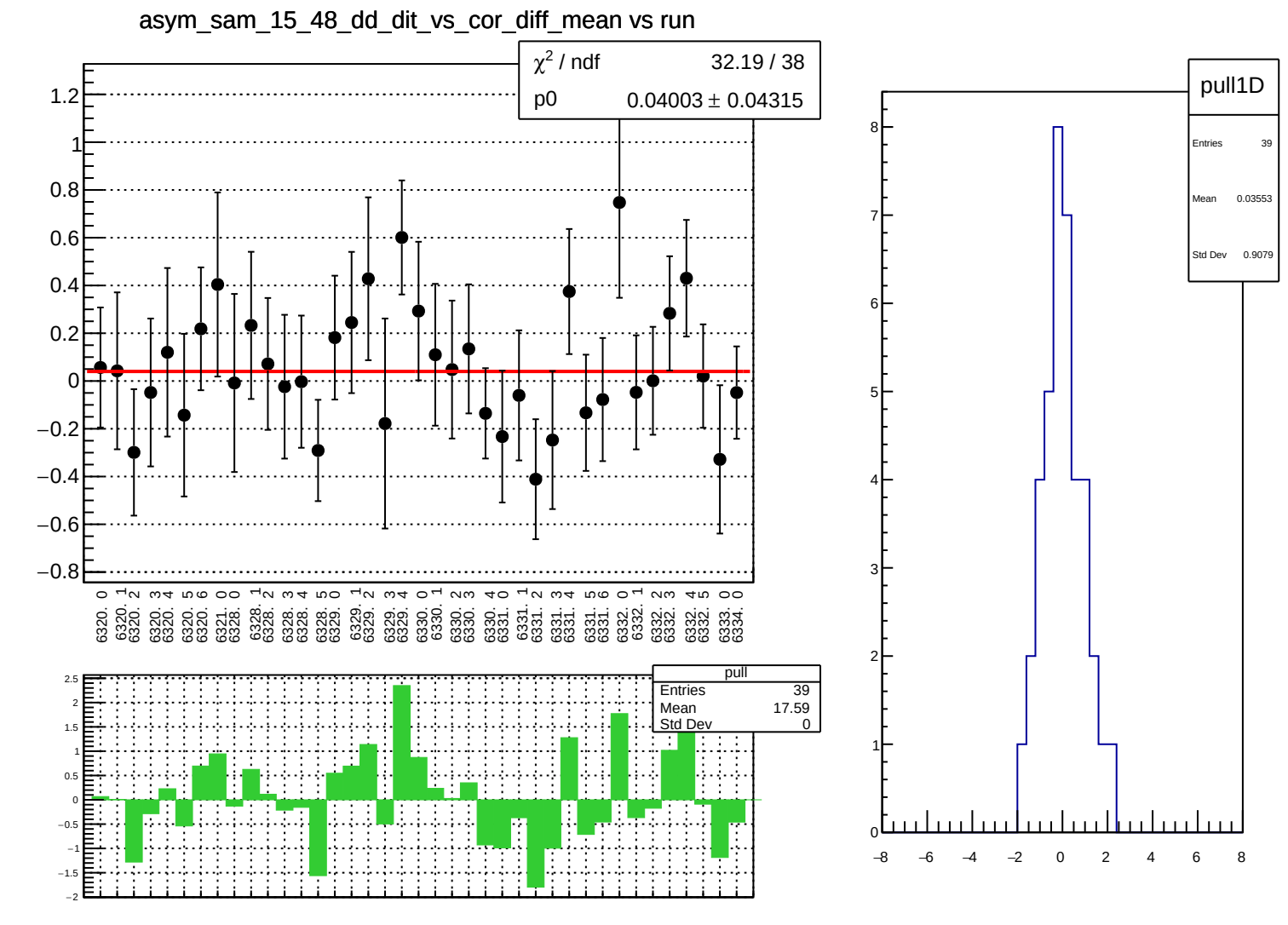

pull1D
Entries 39
Mean −0.04329
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

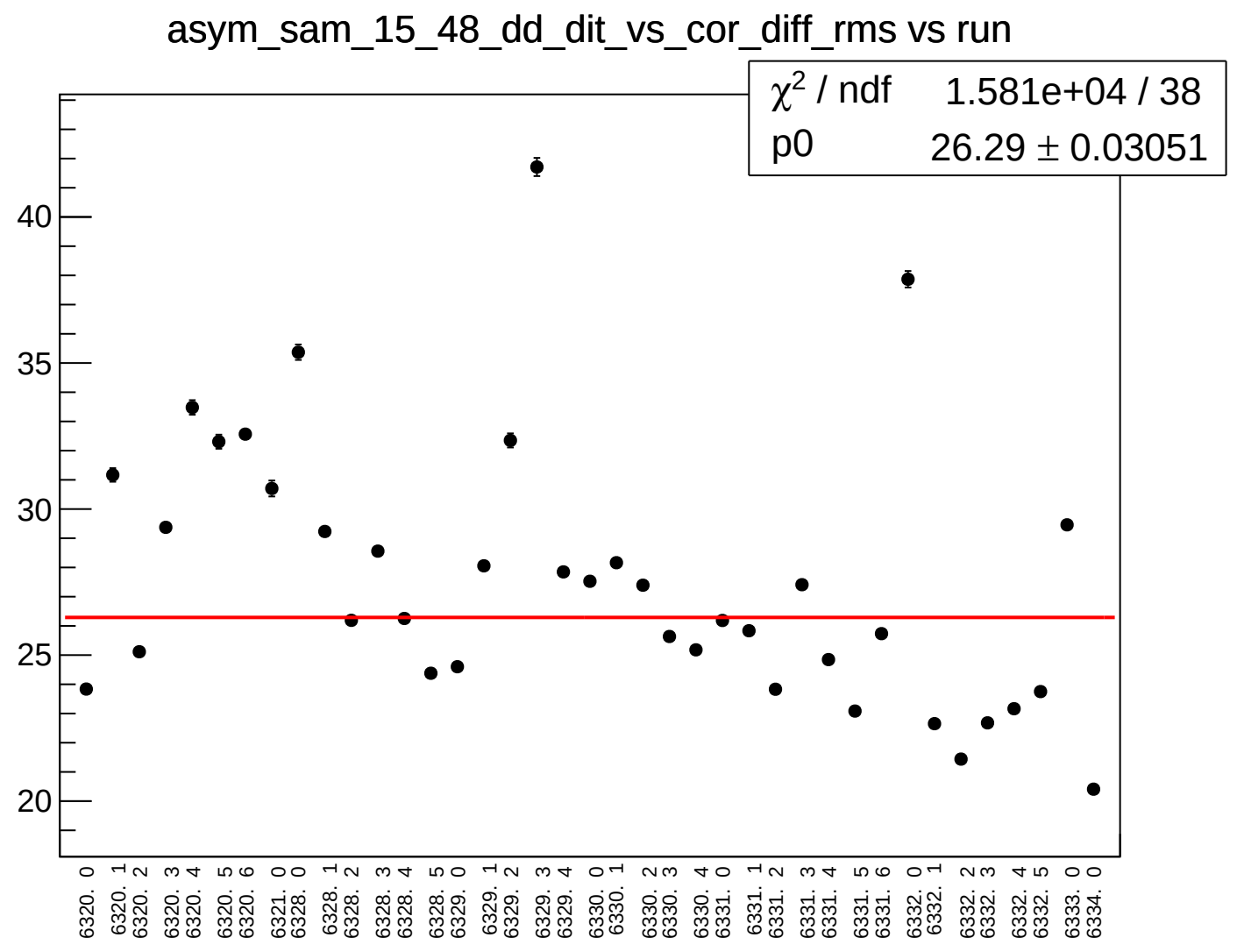

asym_sam_15_48_dd_rms vs run
χ² / ndf 3.234e+04 / 38
p0 570.2 ± 0.6693
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

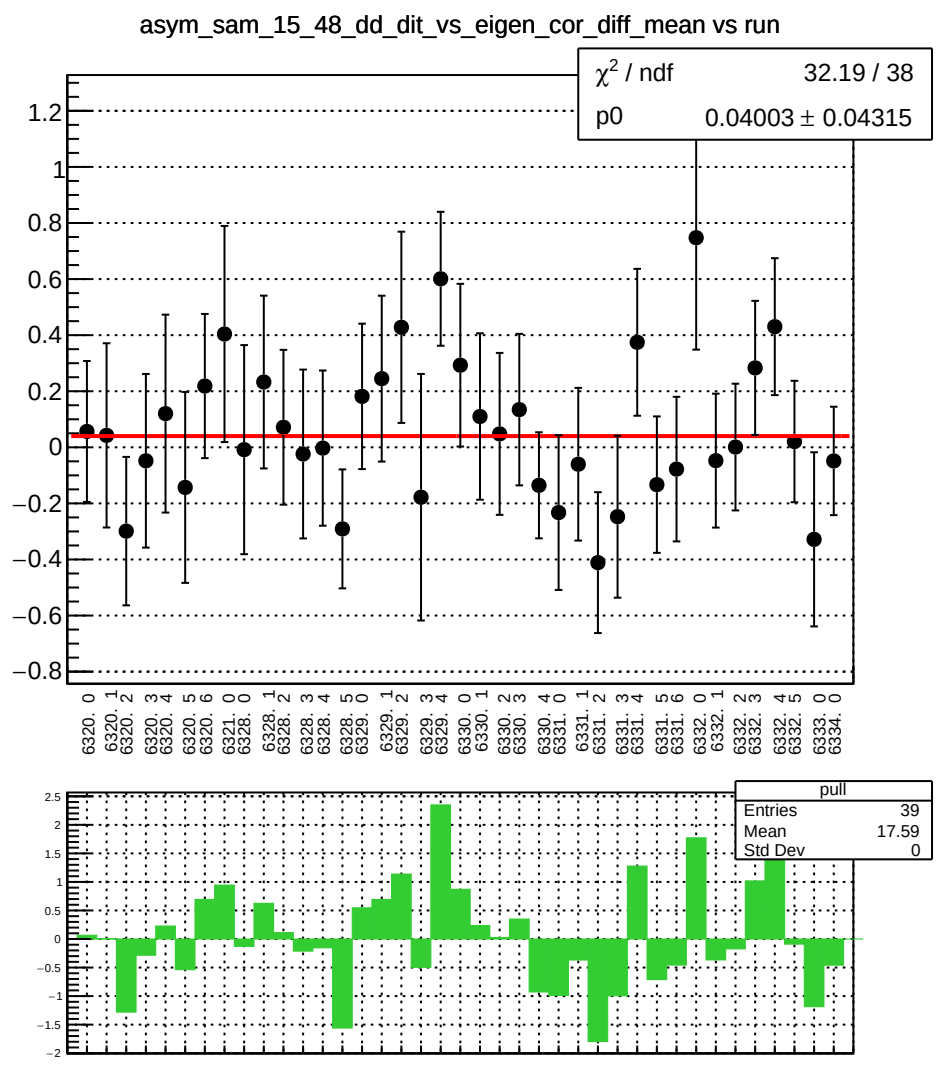

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 28.29 / 38
p0 −4.011e−14 ± 3.76e−14
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.19
Std Dev 9.332
1.5
1
0.5
0
−0.5
−1
−1.5
−2

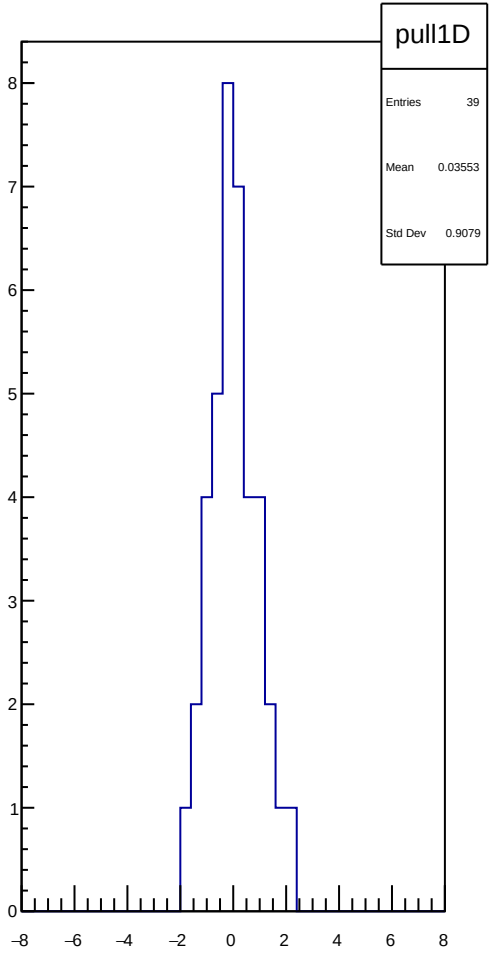

pull1D
Entries 39
Mean 0.1417
Std Dev 0.8399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

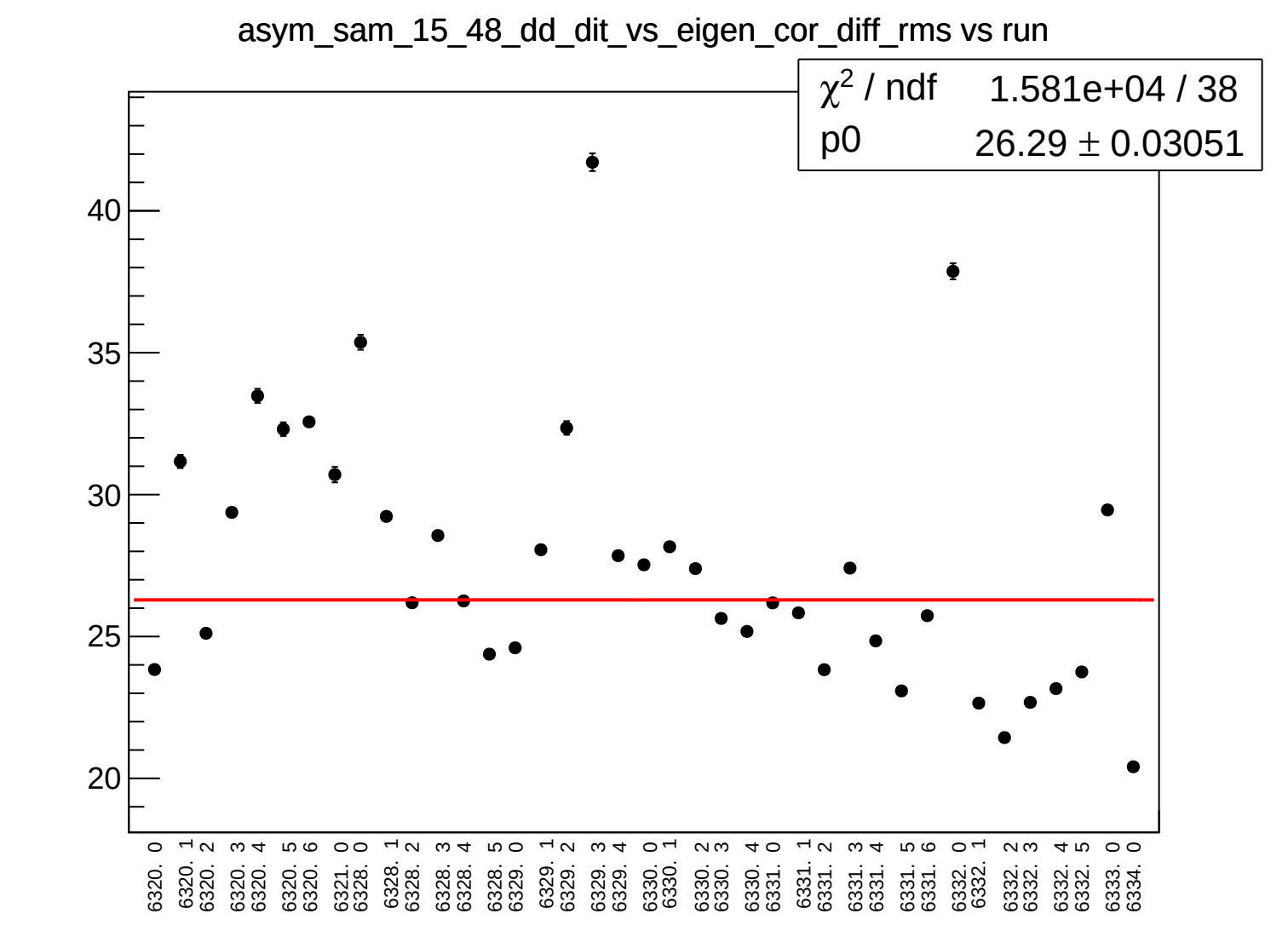

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.462e+05 / 38
p0 1.224e−11 ± 2.659e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

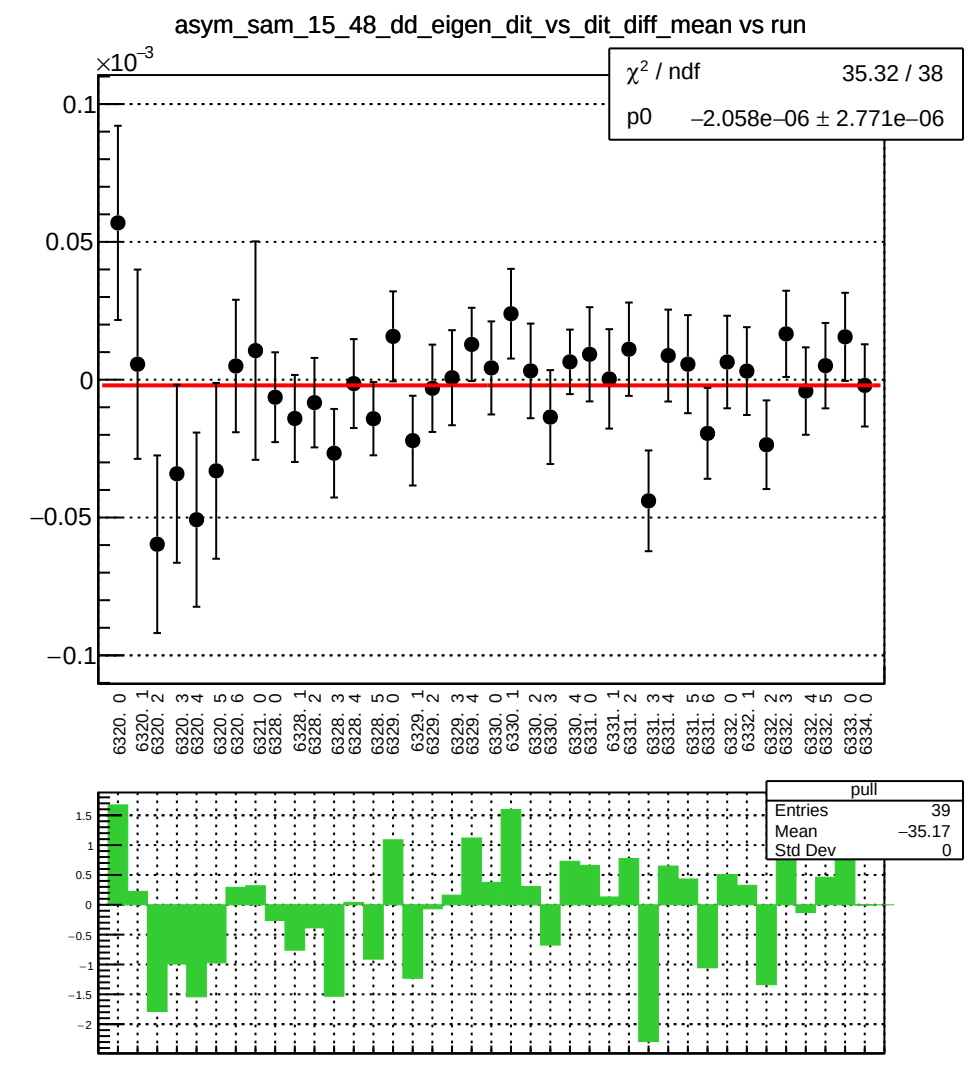

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.19 / 38
p0 0.04003 ± 0.04315
pull
Entries 39
Mean 17.59
Std Dev 0
pull1D
Entries 39
Mean 0.03553
Std Dev 0.9079

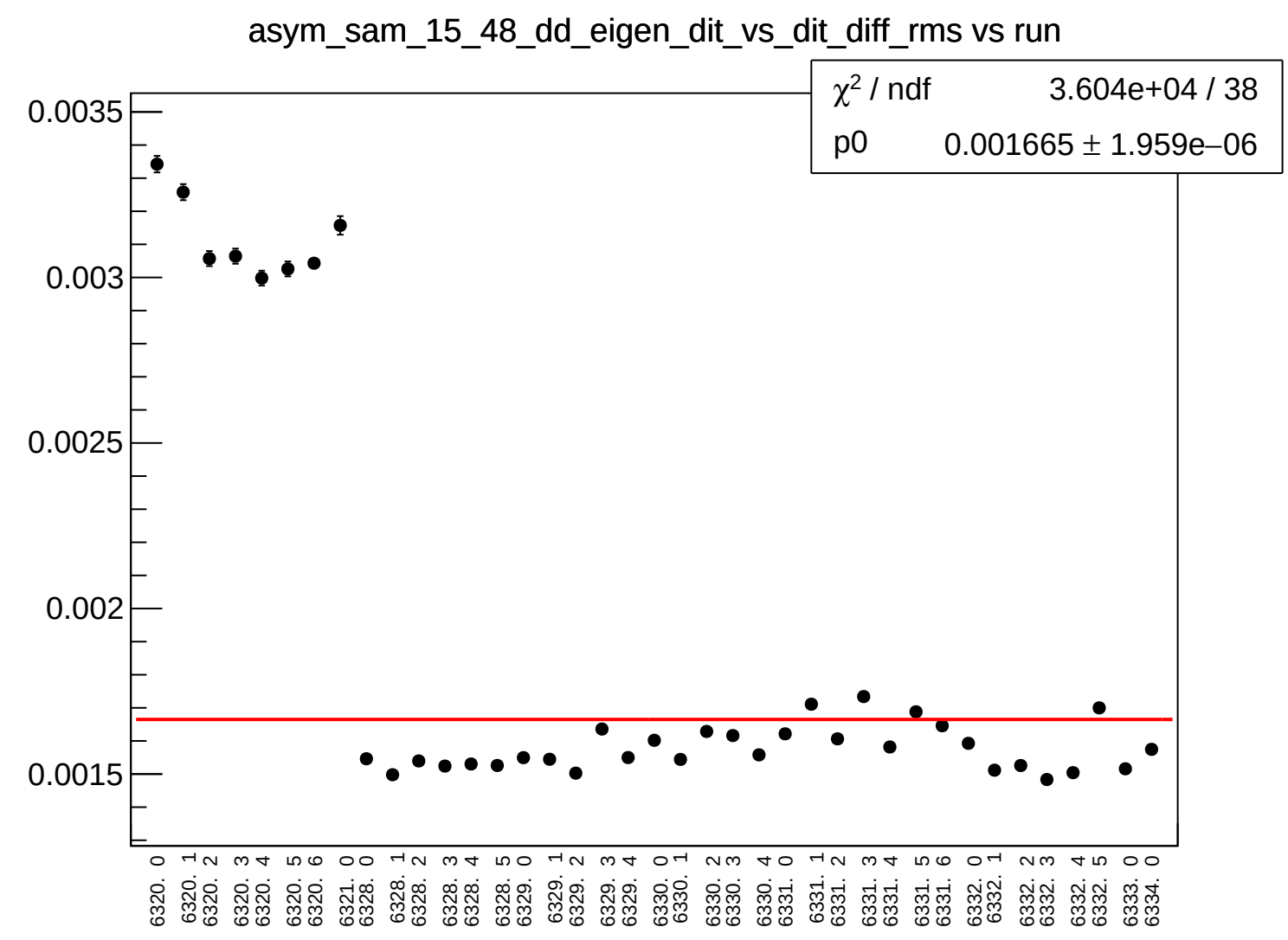

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.581e+04 / 38
p0 26.29 ± 0.03051
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

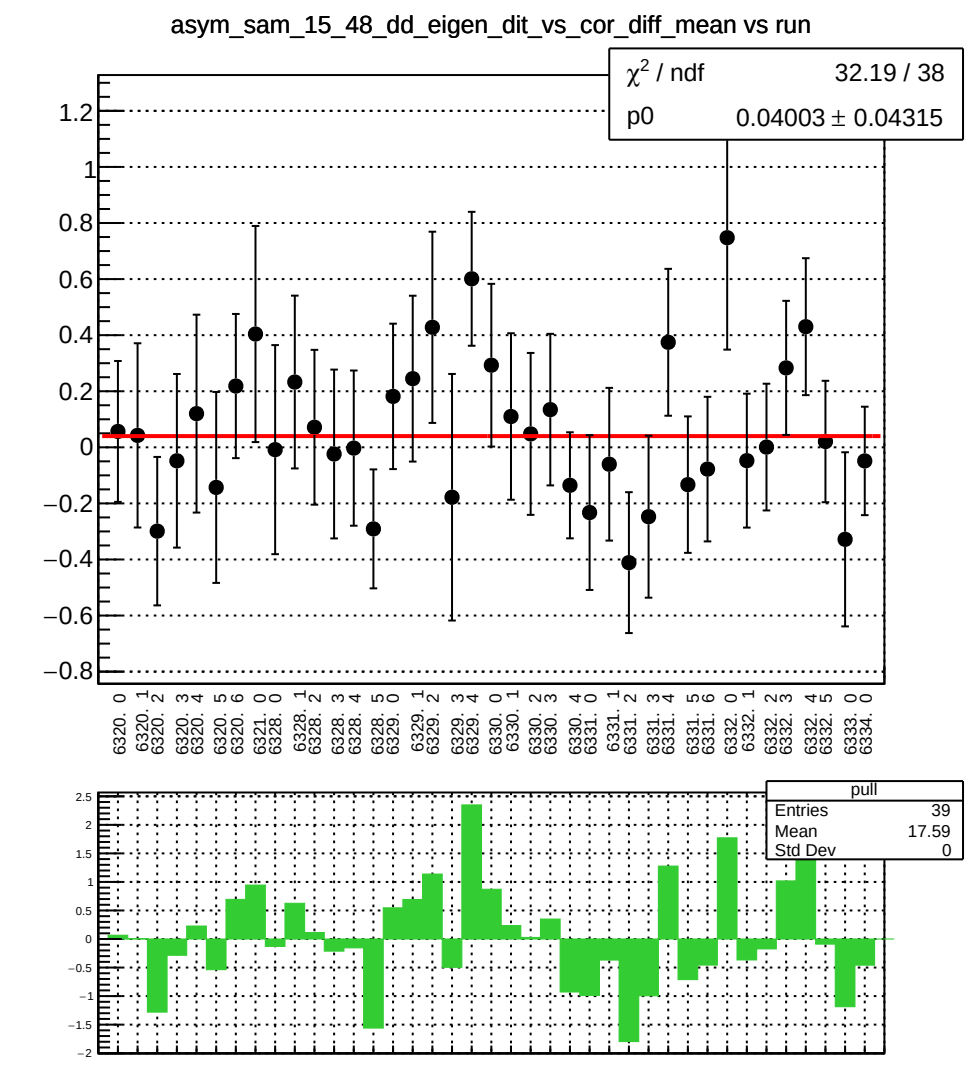

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.19 / 38
p0 0.04003 ± 0.04315
pull
Entries 39
Mean 17.59
Std Dev 0

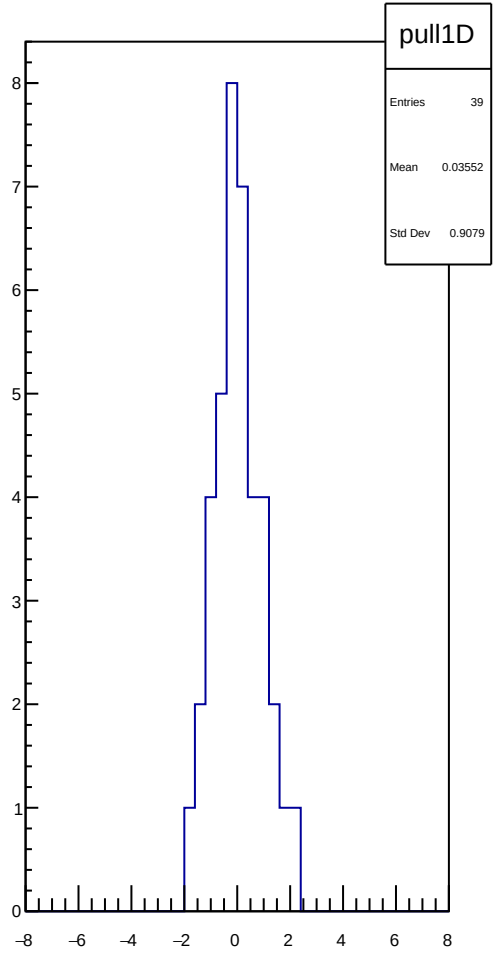

pull1D
Entries 39
Mean 0.03553
Std Dev 0.9079

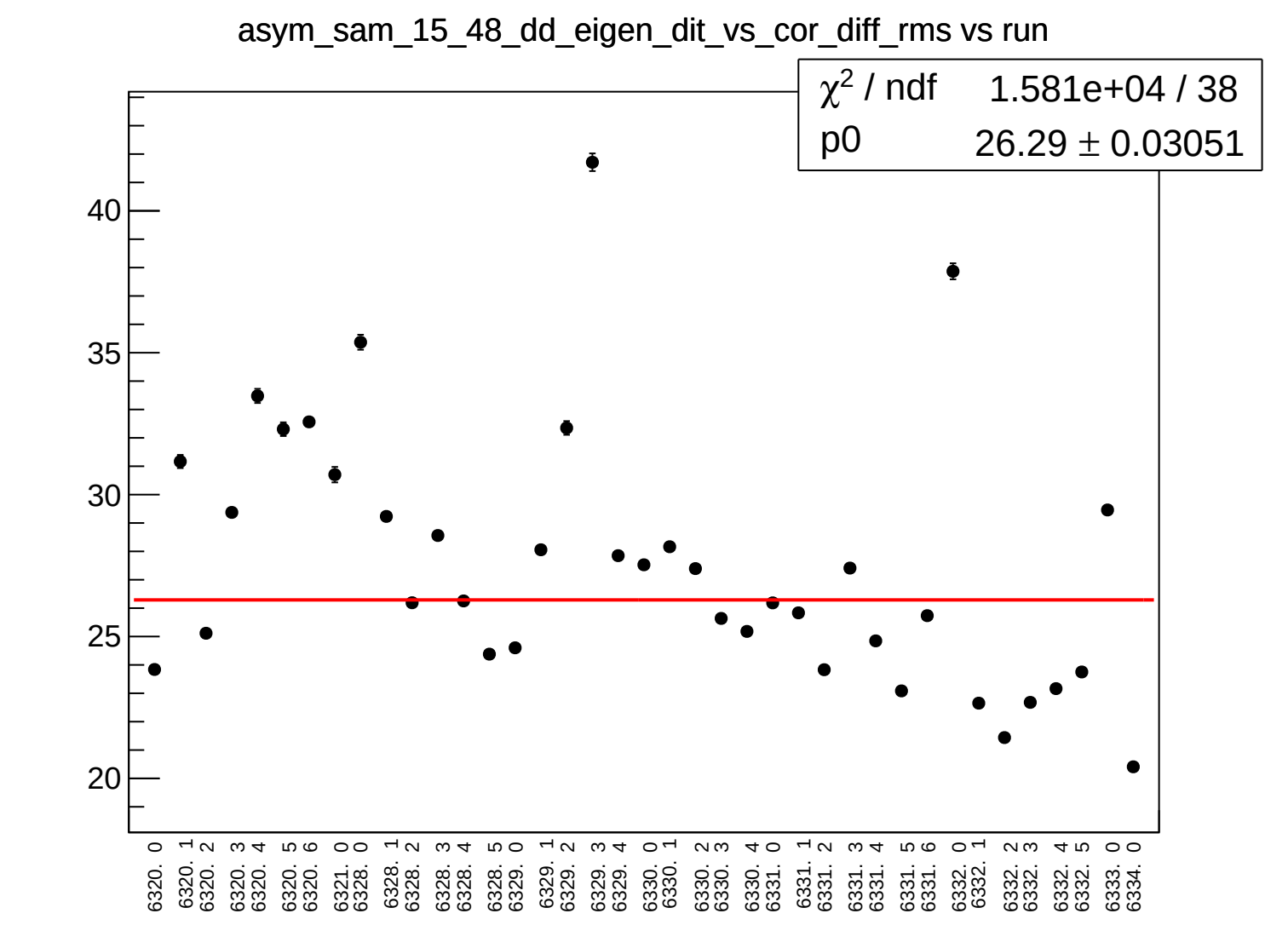

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.581e+04 / 38
p0 26.29 ± 0.03051
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.32 / 38
p0 −2.058e−06 ± 2.771e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.04556
Std Dev 0.9506
9
8
7
6
5
4
3
2
1
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 3.604e+04 / 38
p0 0.001665 ± 1.959e−06
0.0035
0.003
0.0025
0.002
0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.19 / 38
p0 0.04003 ± 0.04315
pull
Entries 39
Mean 17.59
Std Dev 0


pull1D
Entries 39
Mean 0.03552
Std Dev 0.9079


asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.581e+04 / 38
p0 26.29 ± 0.03051
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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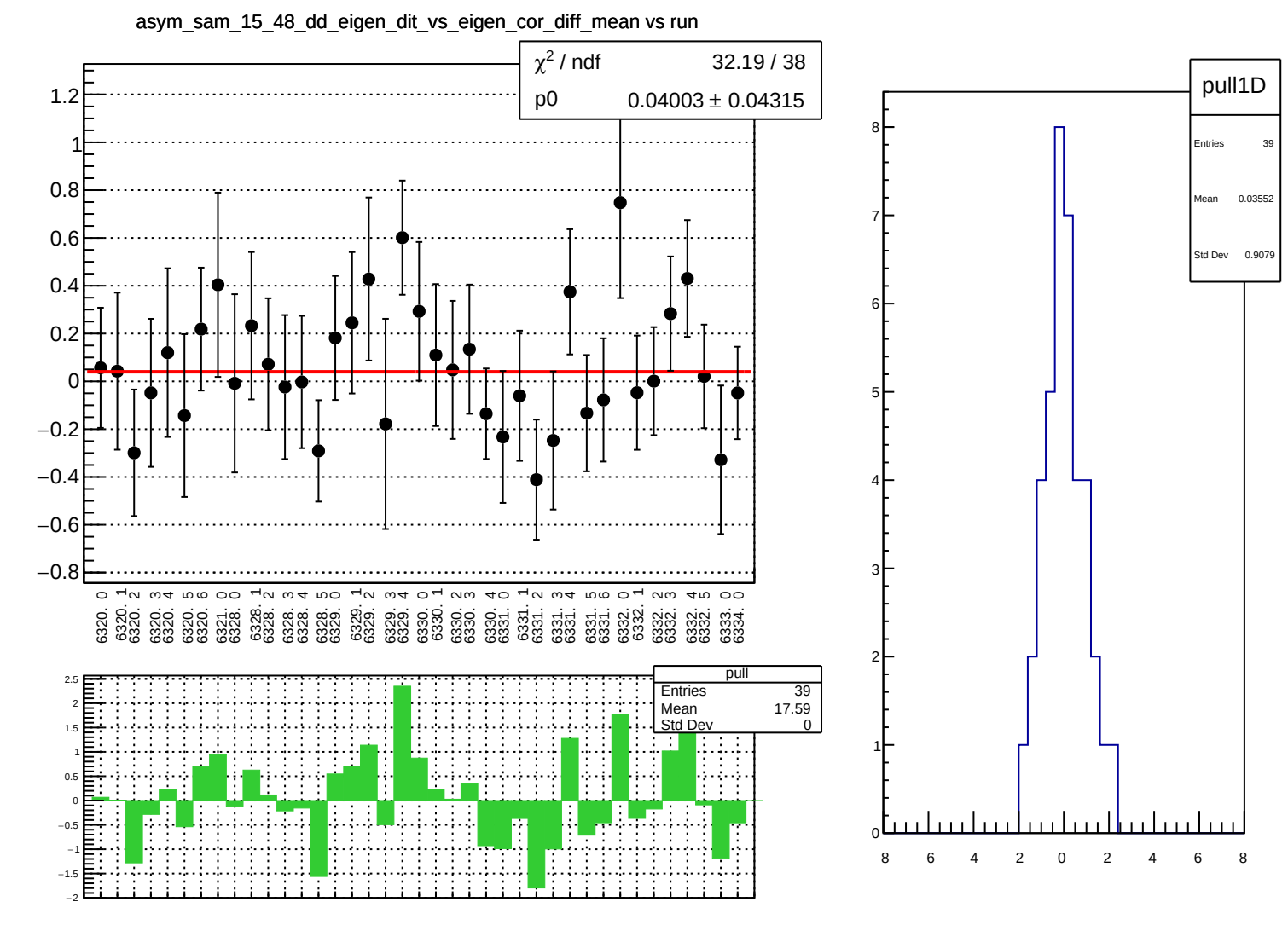
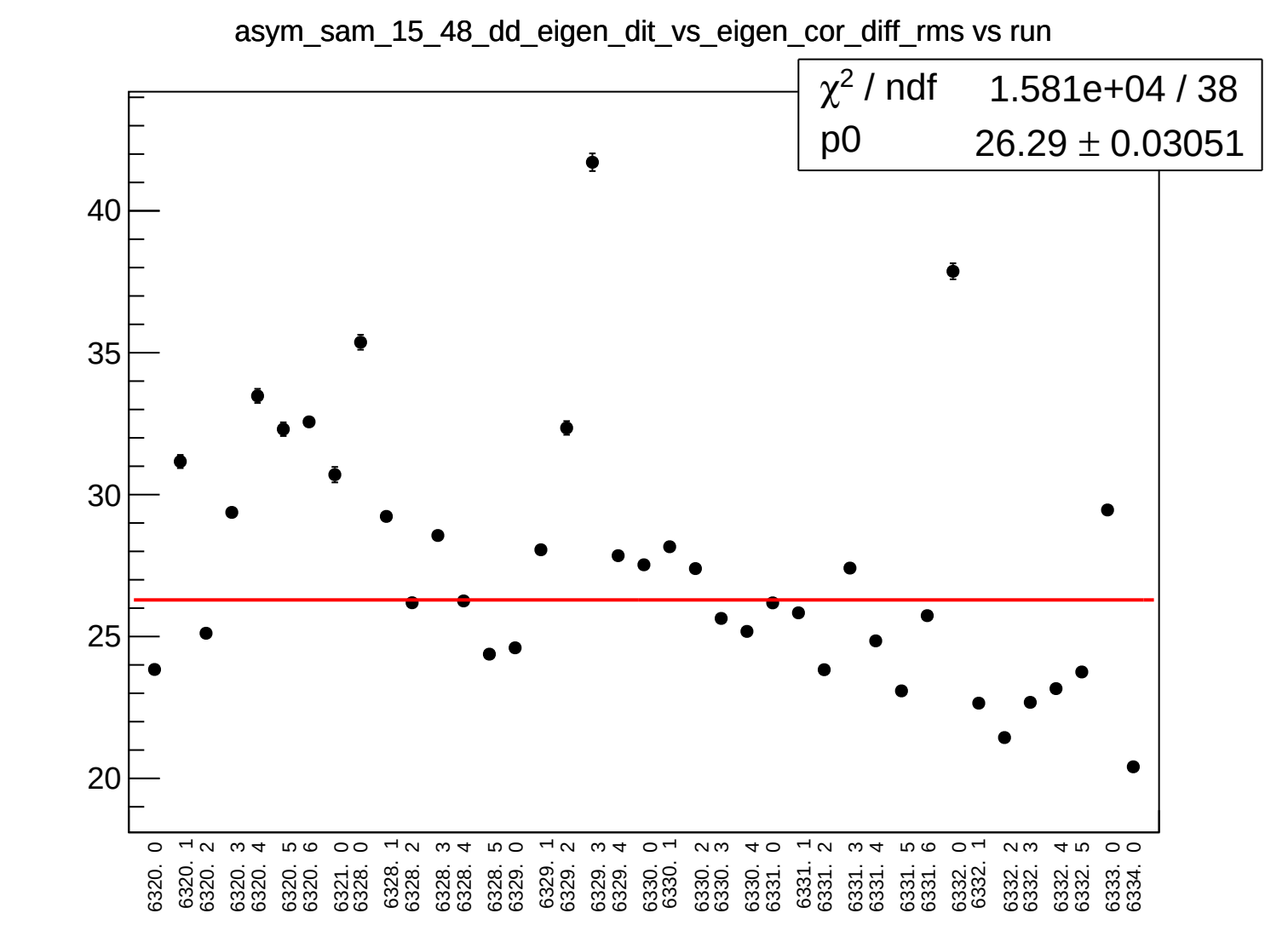
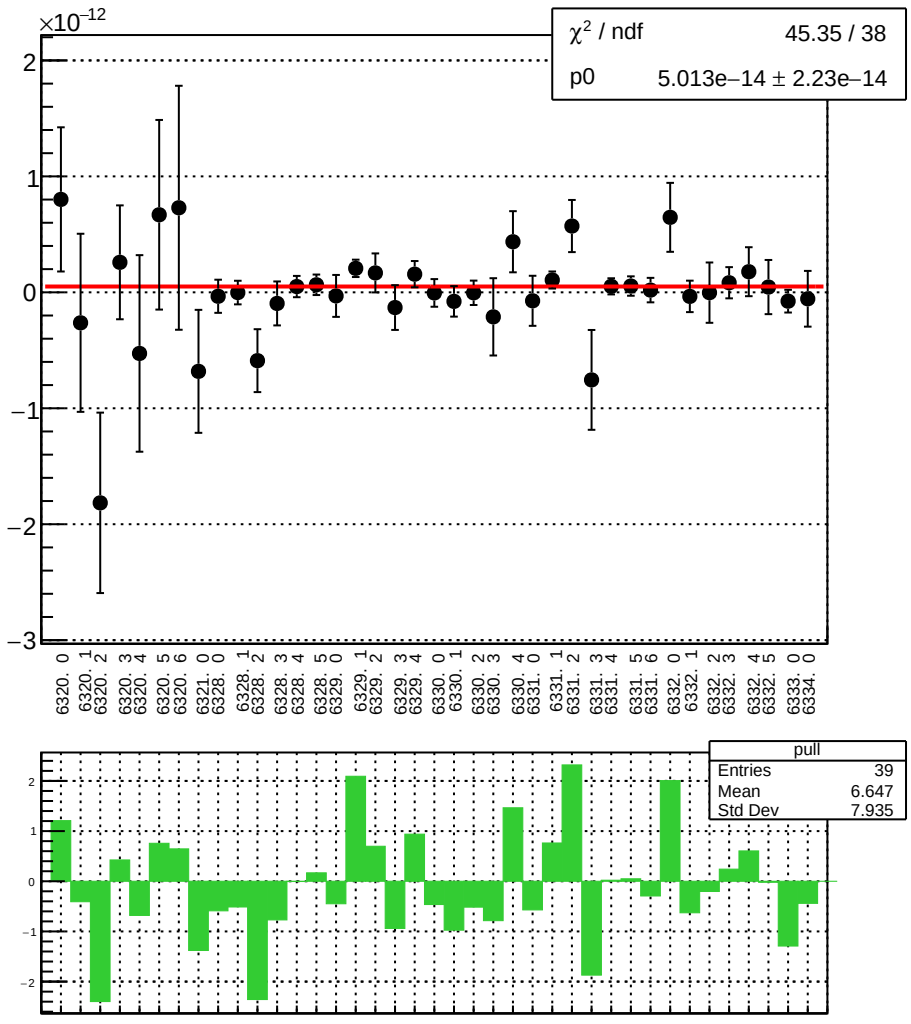
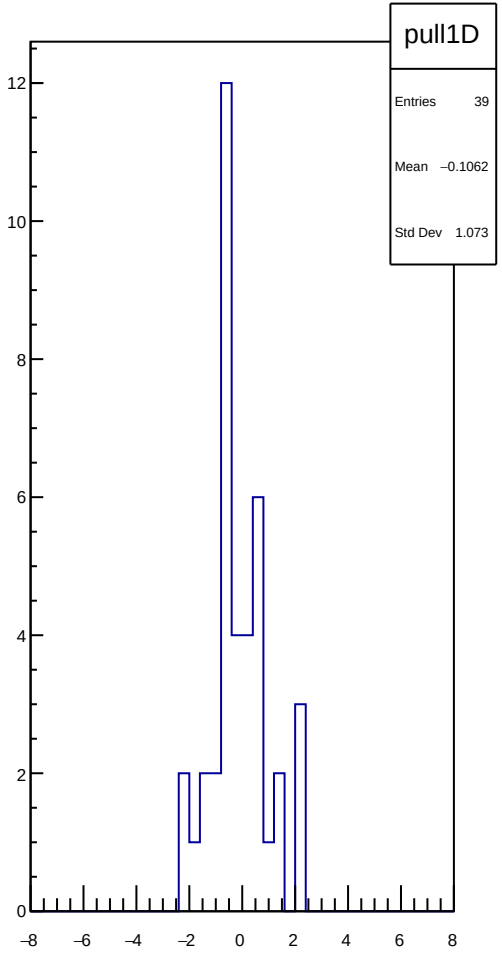
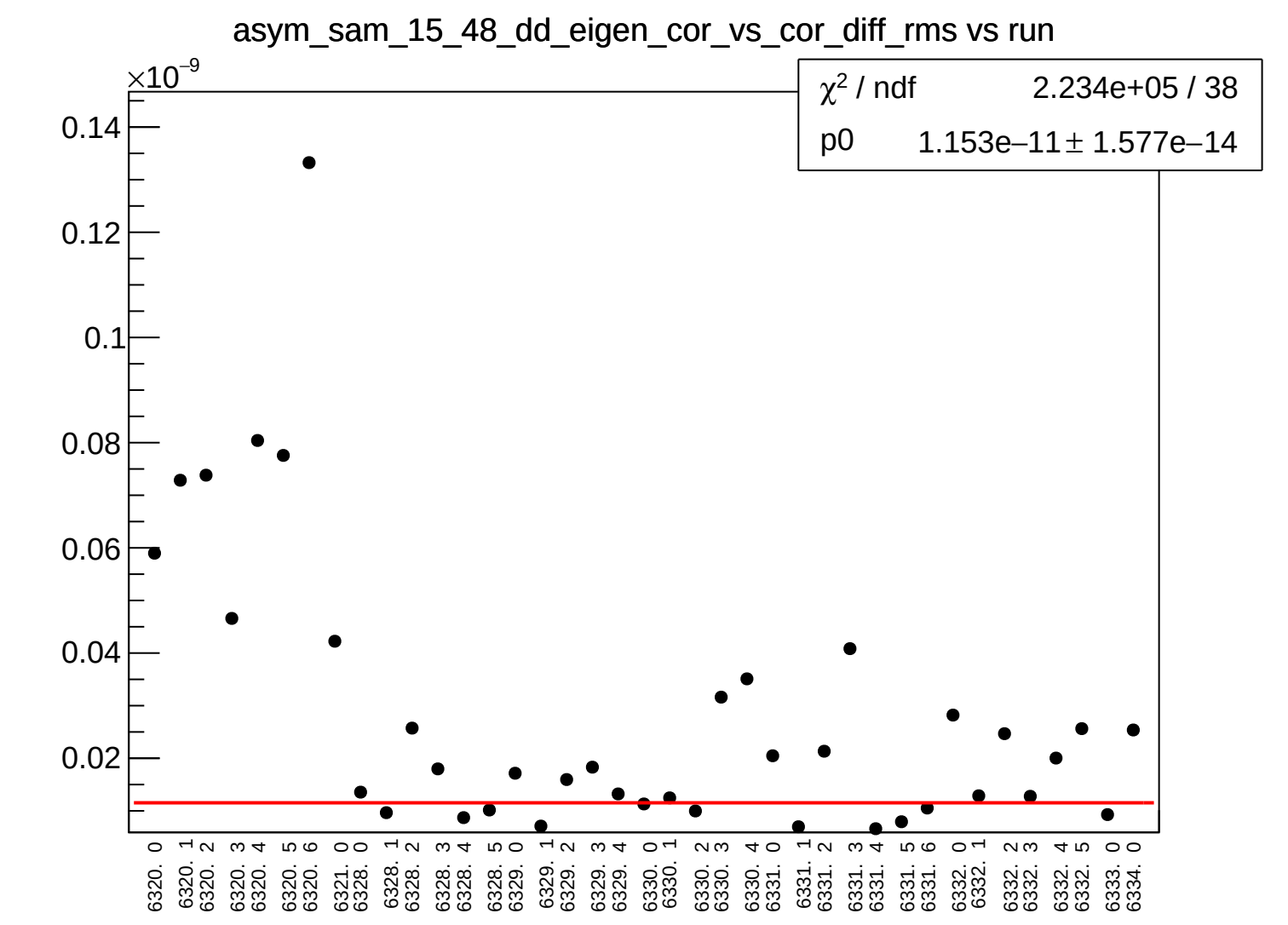
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

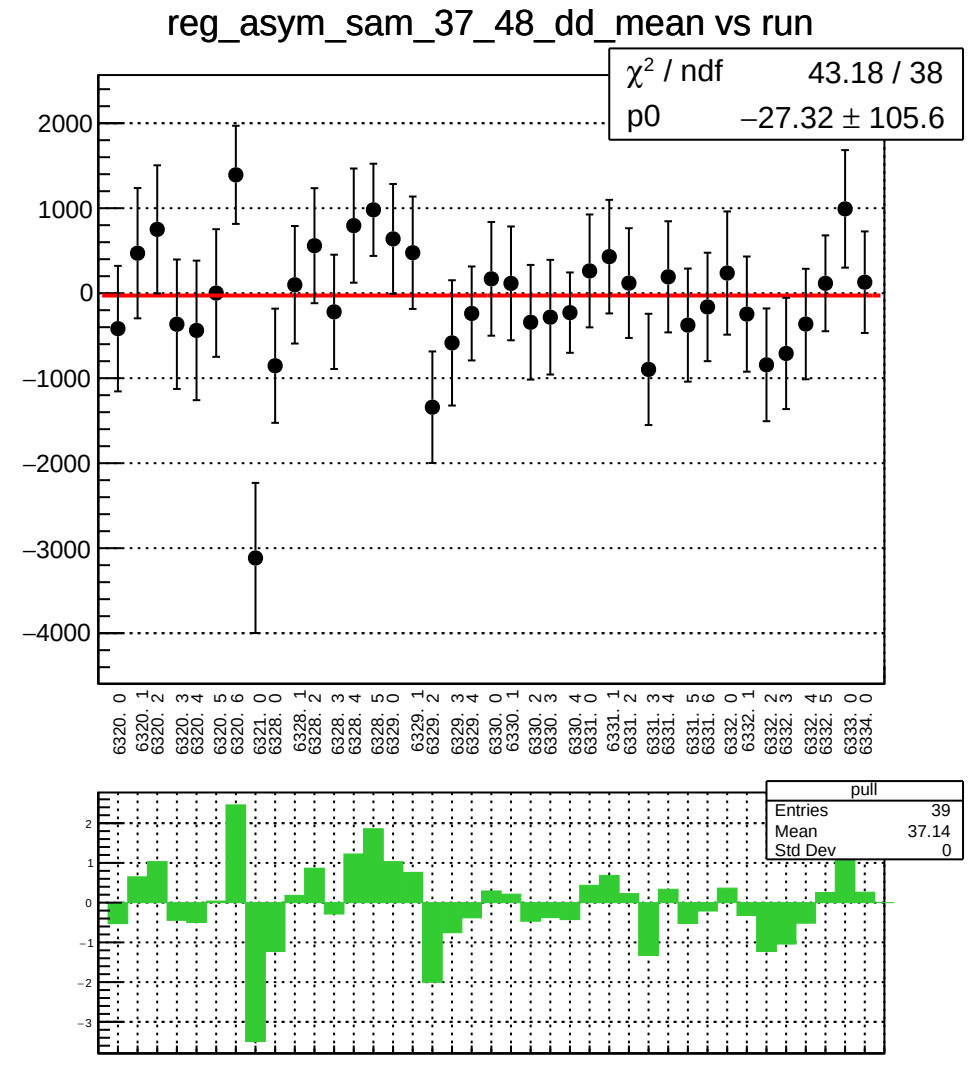

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.19 / 38
p0 0.04003 ± 0.04315
pull
Entries 39
Mean 17.59
Std Dev 0
pull1D
Entries 39
Mean 0.03552
Std Dev 0.9079

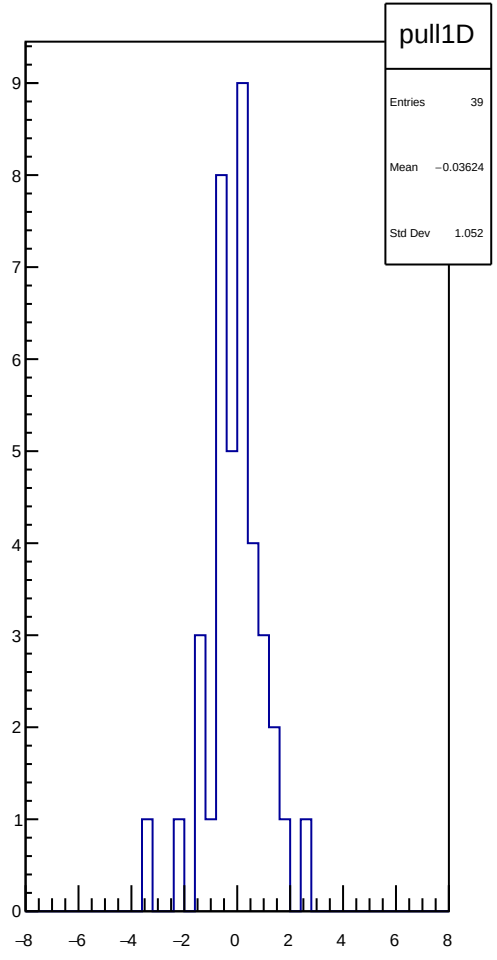

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 1.581e+04 / 38
p0 26.29 ± 0.03051
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

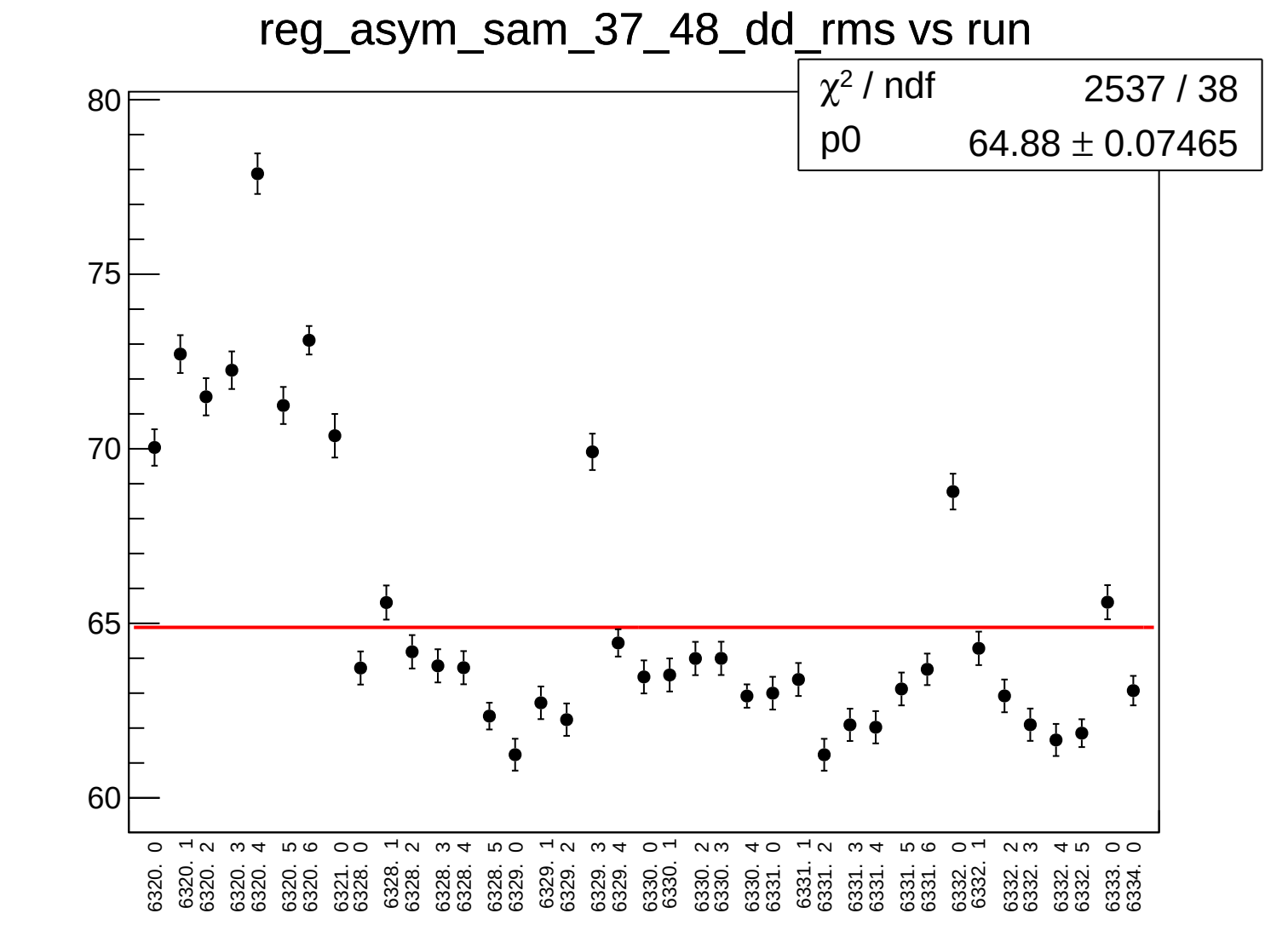

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.35 / 38
p0 5.013e−14 ± 2.23e−14
pull
Entries 39
Mean 6.647
Std Dev 7.935

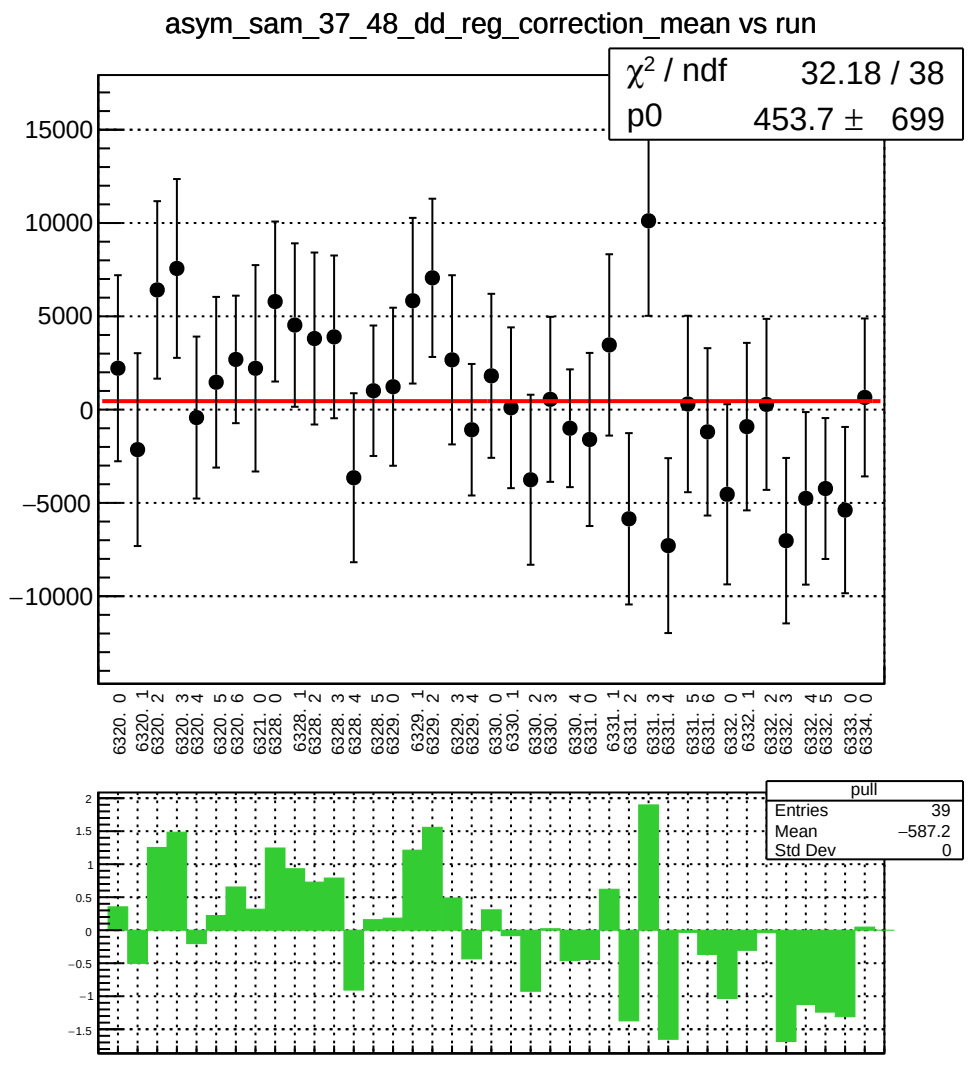

pull1D
Entries 39
Mean −0.1062
Std Dev 1.073

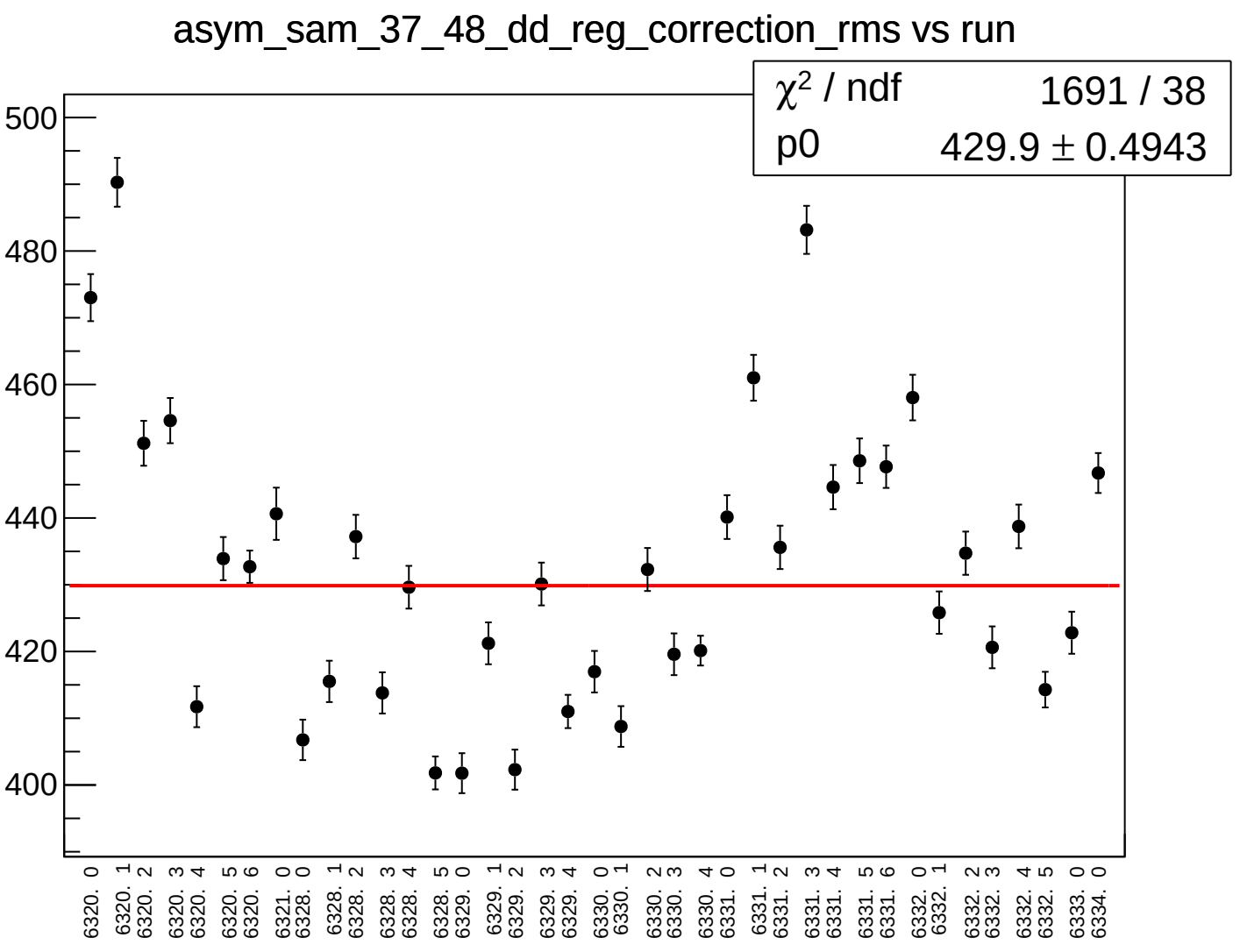

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.234e+05 / 38
p0 1.153e−11 ± 1.577e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

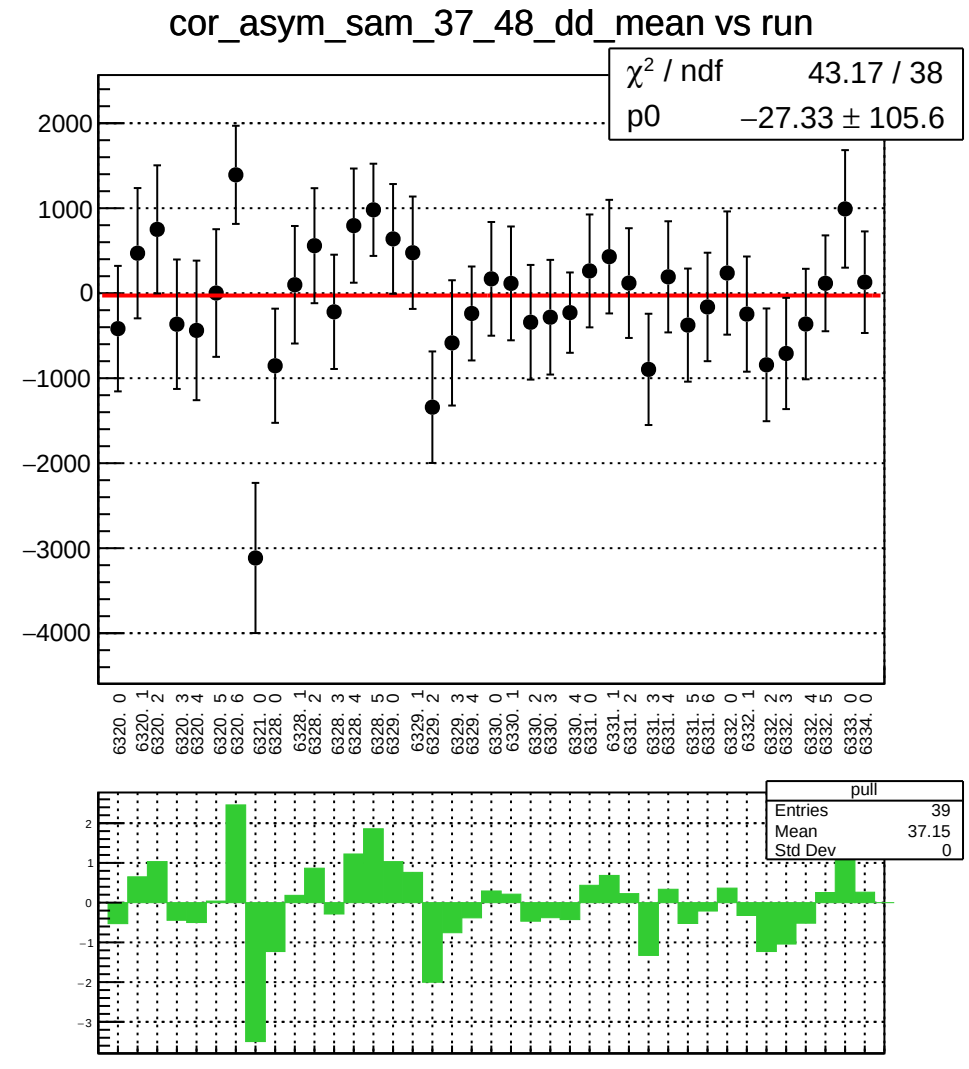

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.18 / 38
p0 −27.32 ± 105.6
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.14
Std Dev 0
2
1
0
−1
−2
−3

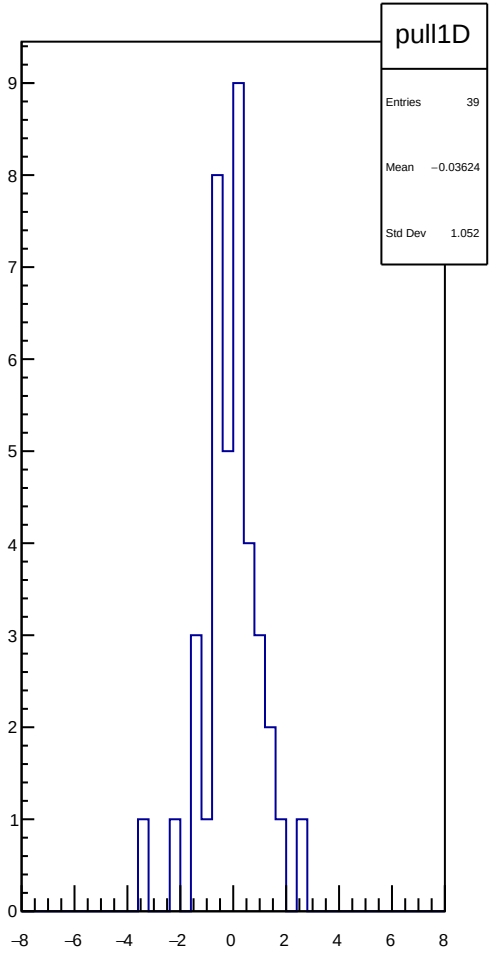

pull1D
Entries 39
Mean −0.03624
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

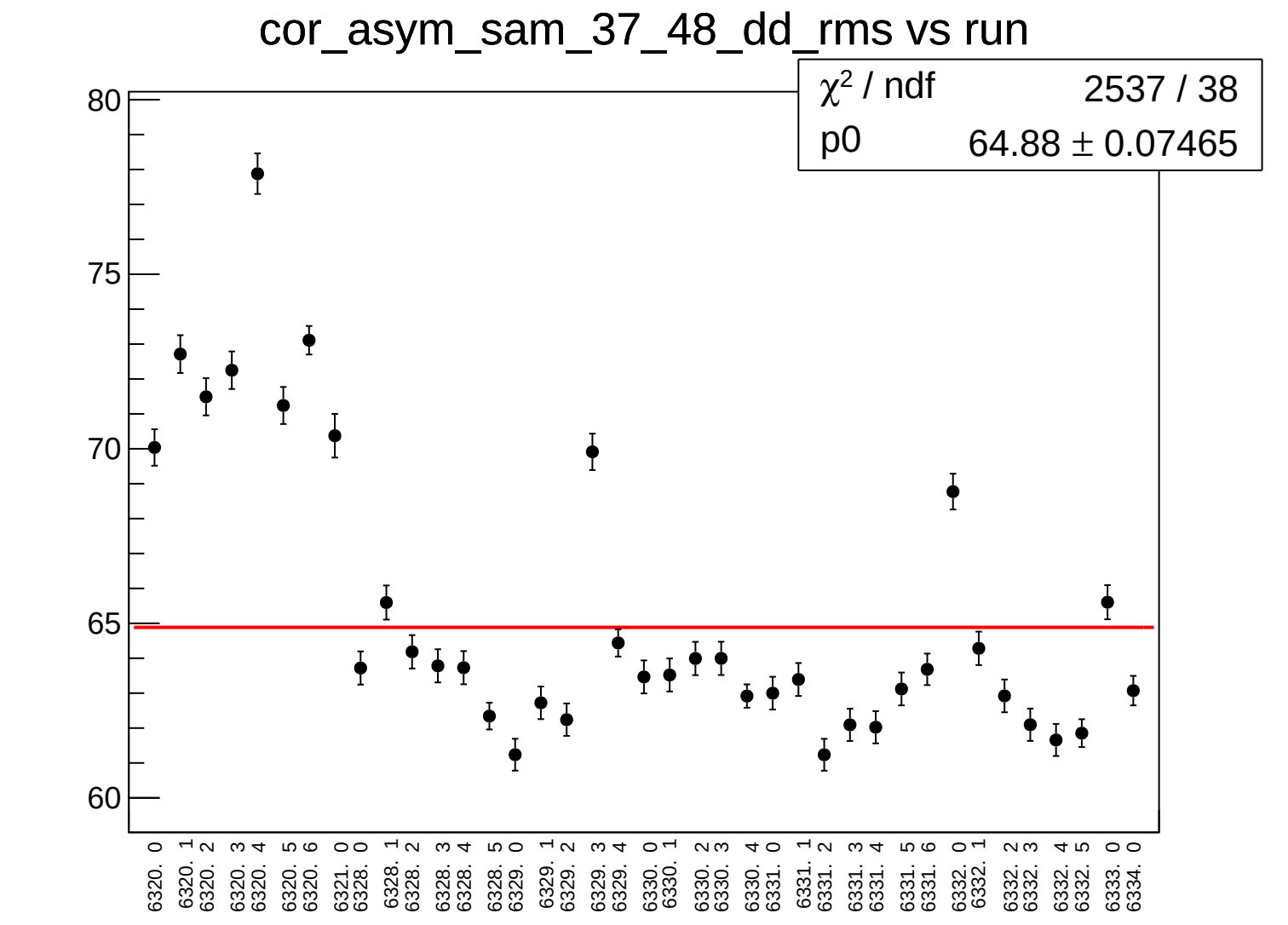

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2537 / 38
p0 64.88 ± 0.07465
80
75
70
65
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 32.18 / 38
p0 453.7 ± 699
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −587.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.009147
Std Dev 0.9084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1691 / 38
p0 429.9 ± 0.4943
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.17 / 38
p0 −27.33 ± 105.6
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.15
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 39
Mean −0.03624
Std Dev 1.052
9
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 2537 / 38
p0 64.88 ± 0.07465
80
75
70
65
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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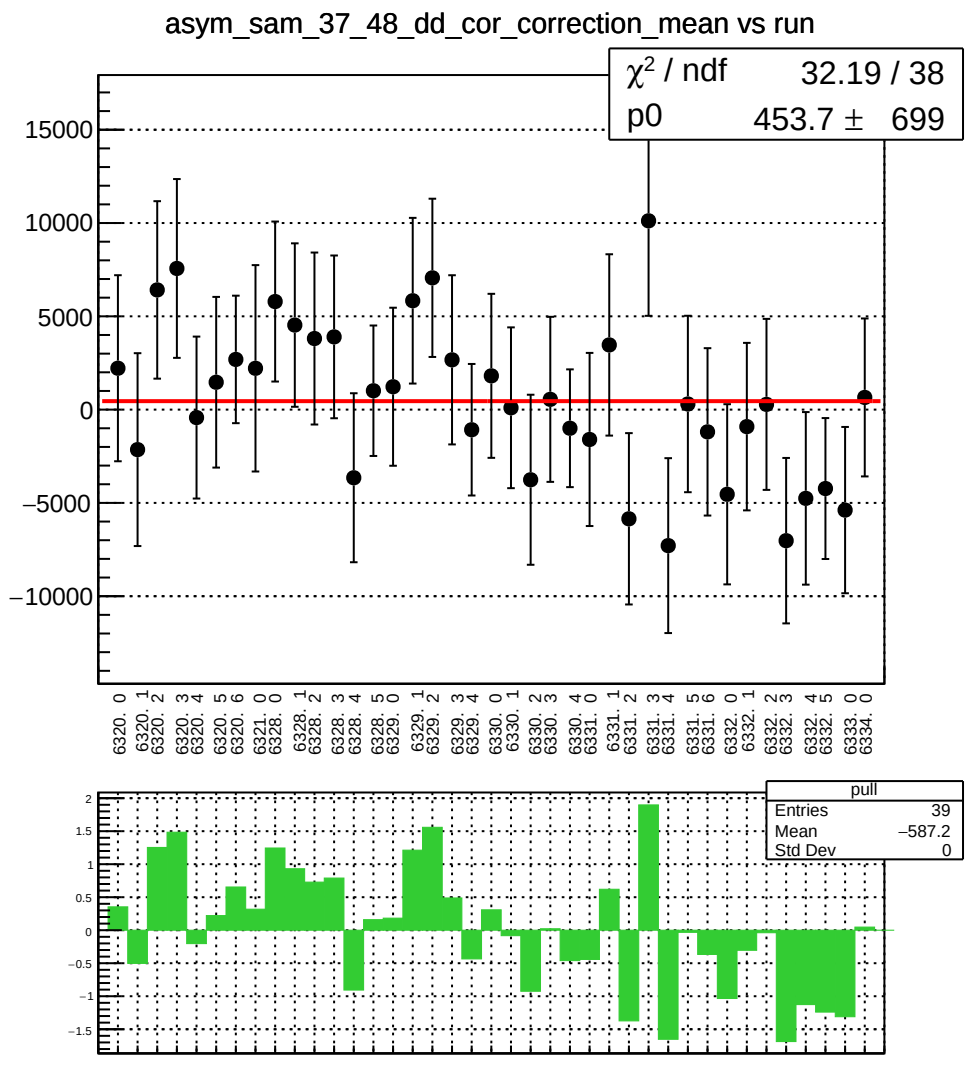
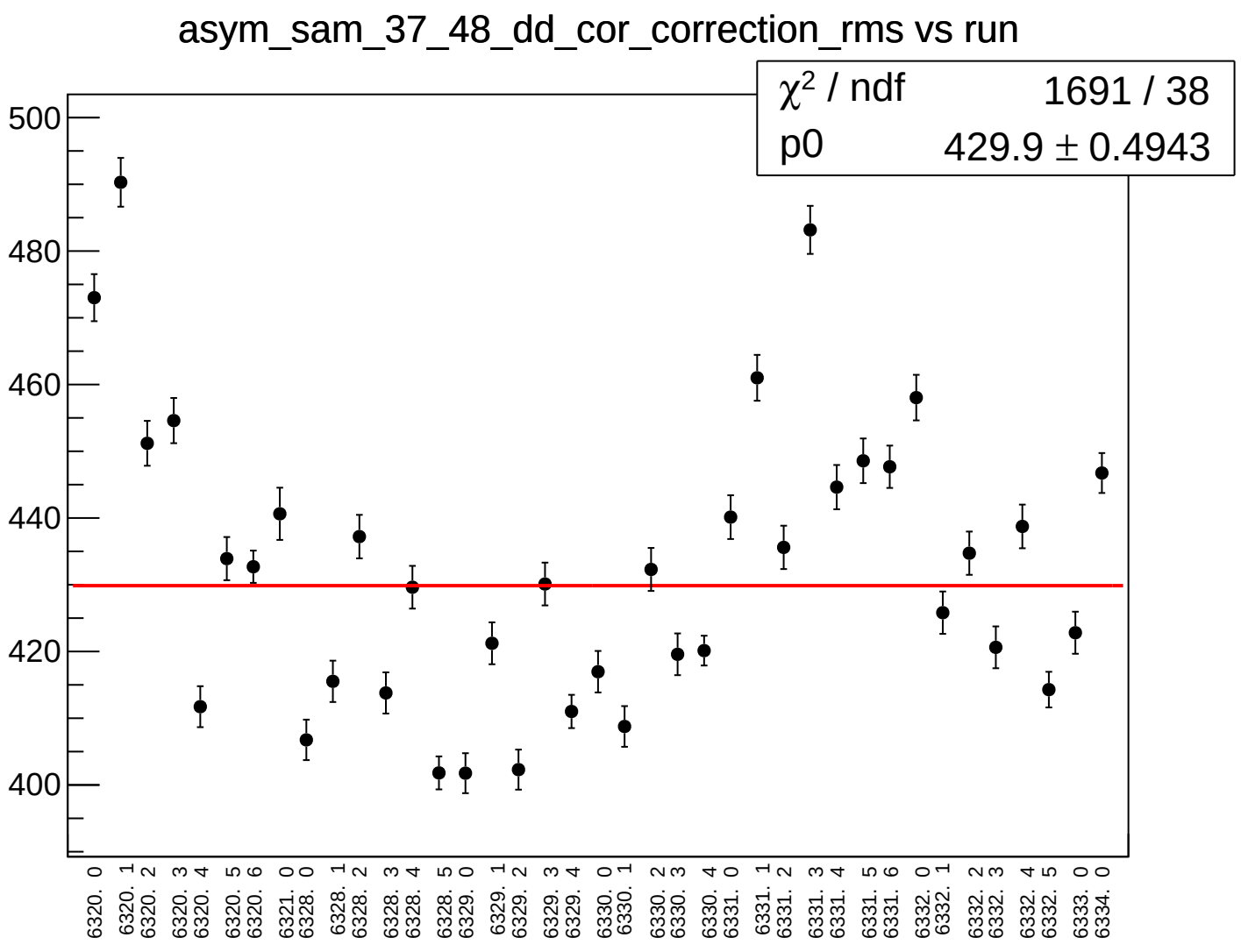
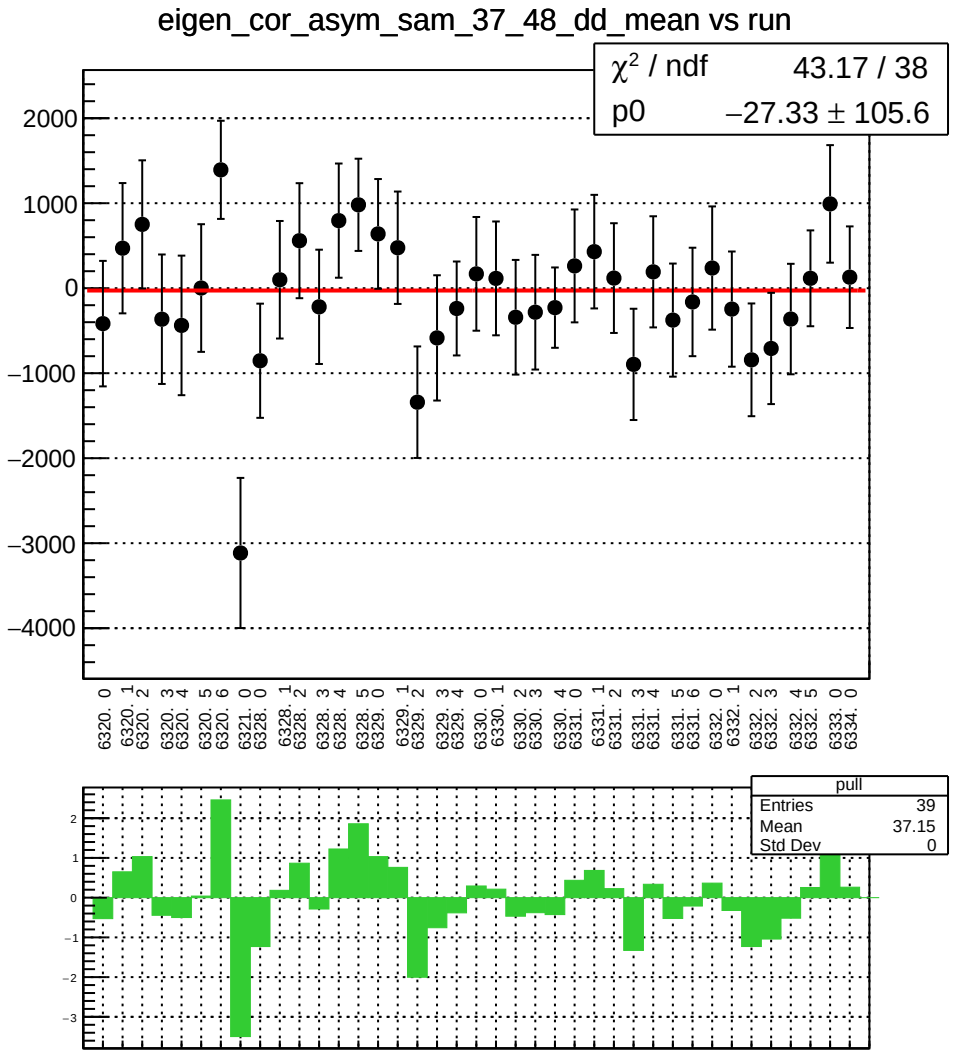
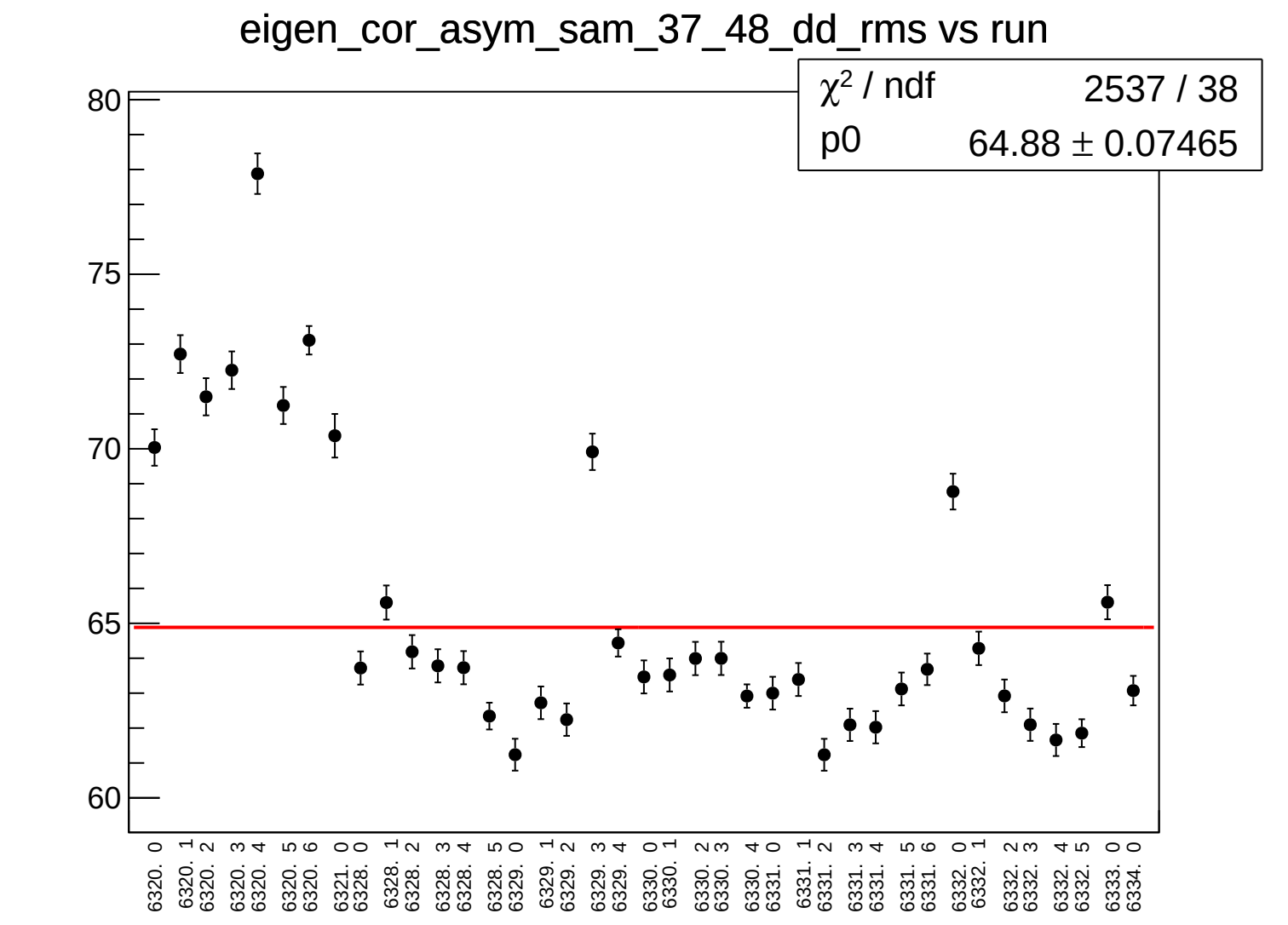
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 32.19 / 38
p0 453.7 ± 699
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −587.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.009147
Std Dev 0.9084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1691 / 38
p0 429.9 ± 0.4943
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.17 / 38
p0 −27.33 ± 105.6
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 37.15
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.03624
Std Dev 1.052
9
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 2537 / 38
p0 64.88 ± 0.07465
80
75
70
65
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
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6329. 3
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6331. 2
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6331. 4
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6332. 0
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6333. 0
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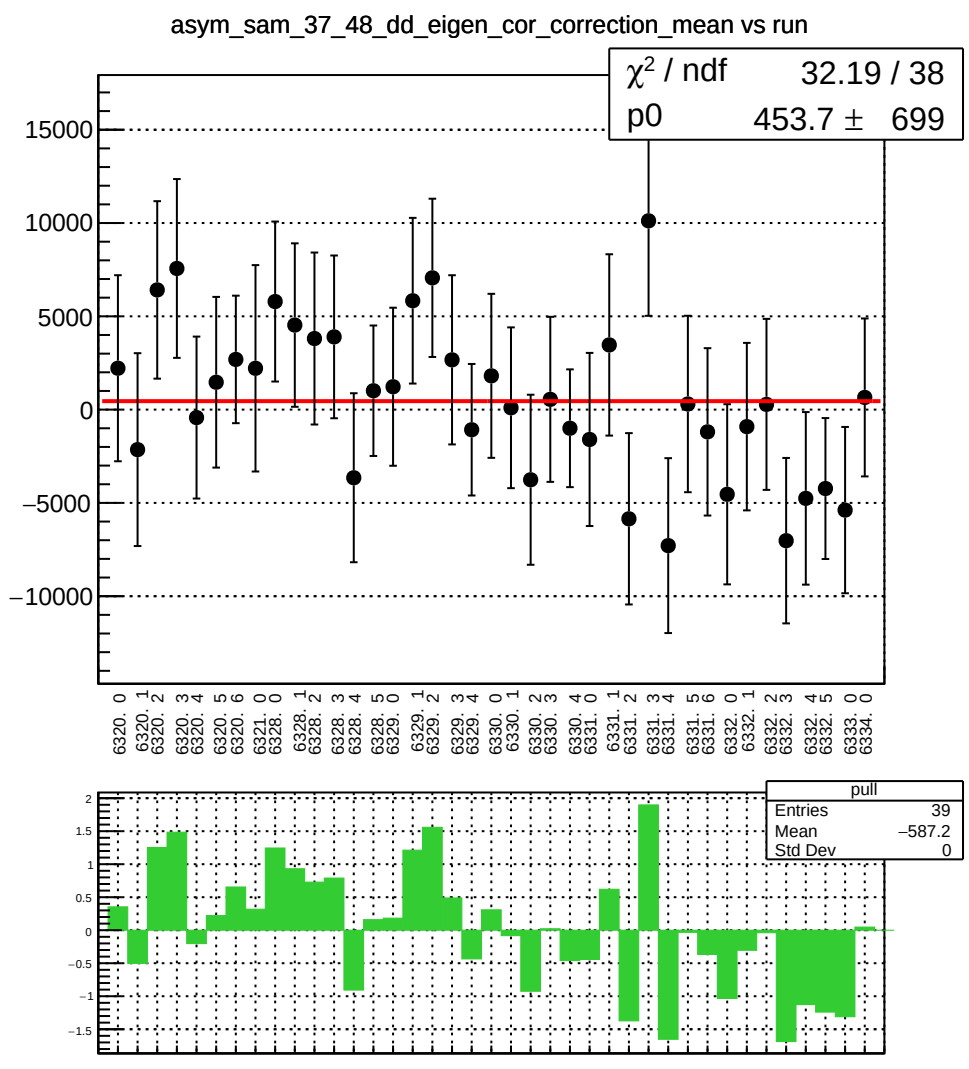
asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.19 / 38
p0 453.7 ± 699
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
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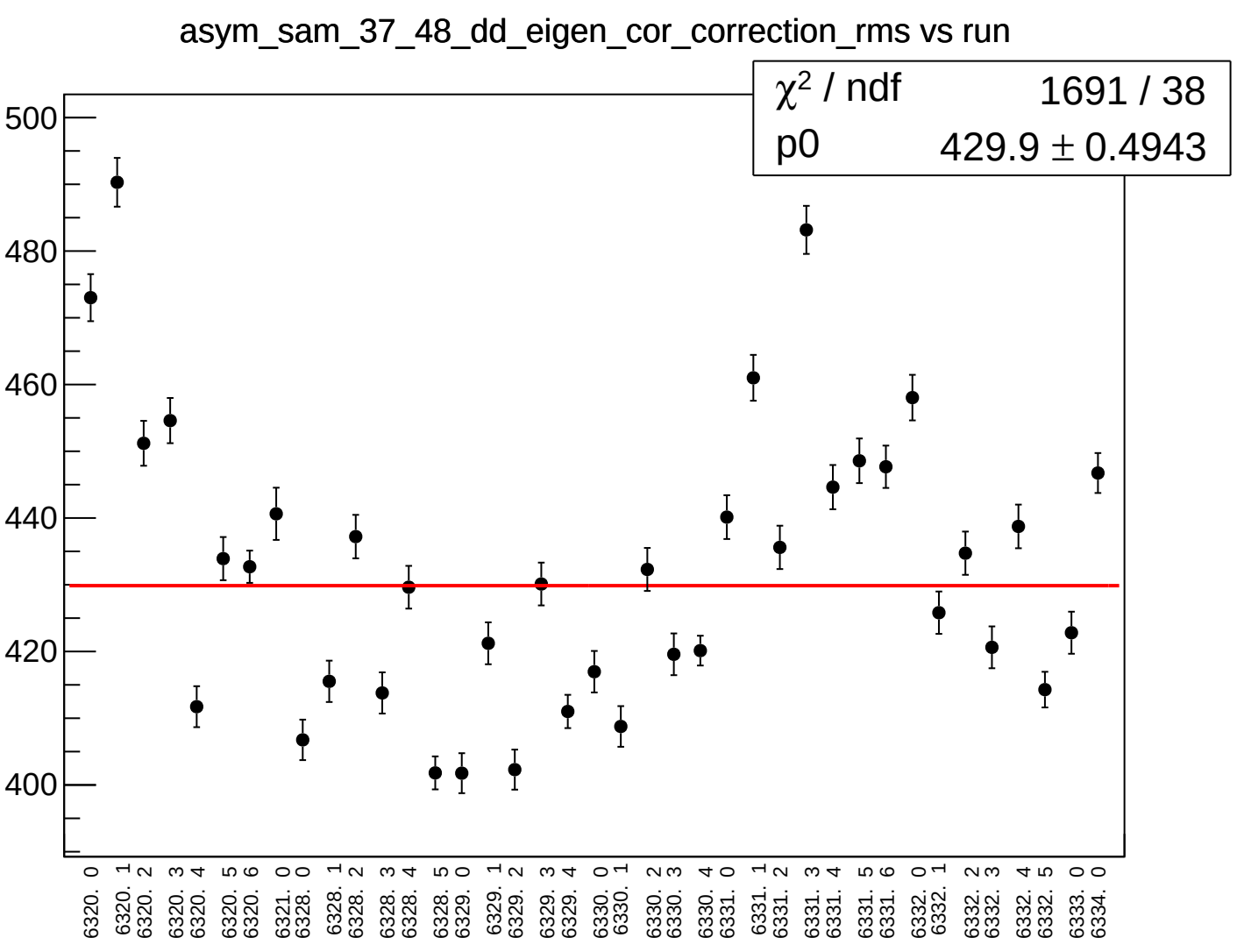
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −587.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.009147
Std Dev 0.9084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1691 / 38
p0 429.9 ± 0.4943
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
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6330. 0
6330. 1
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6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
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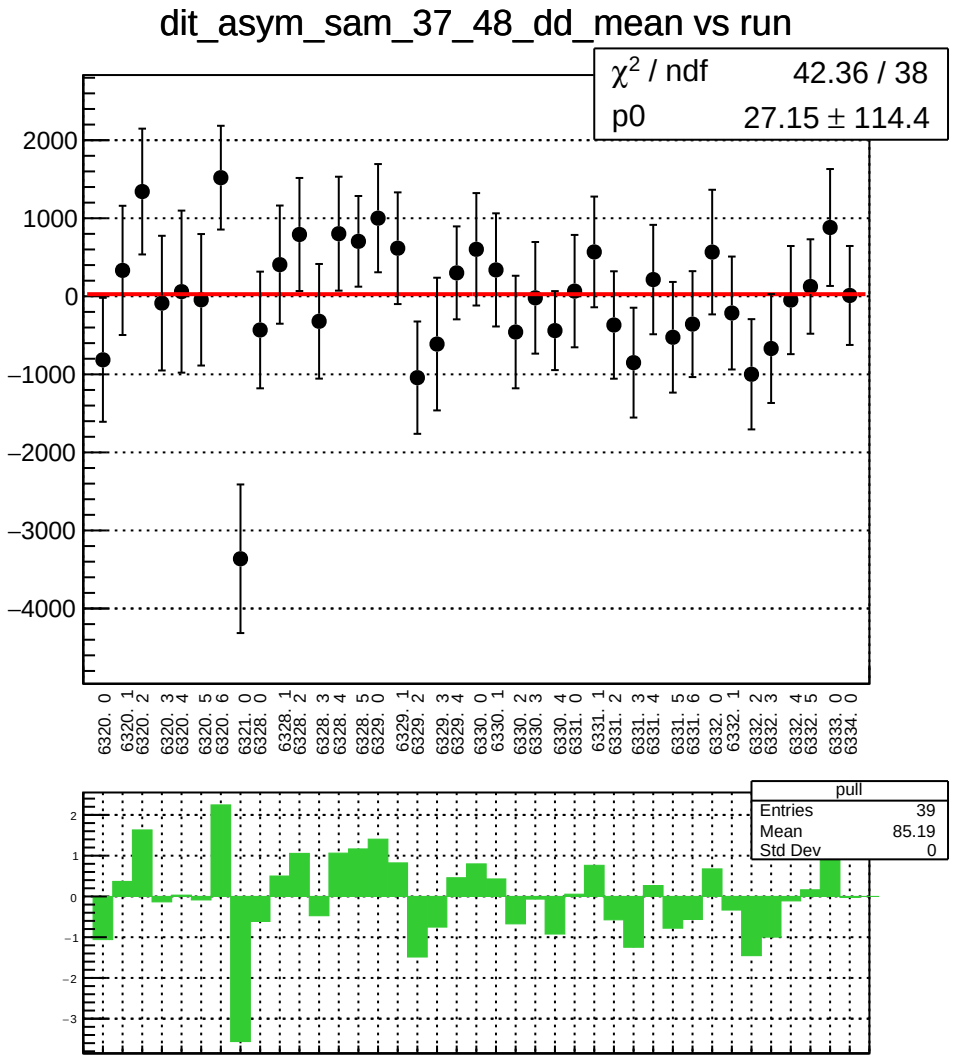
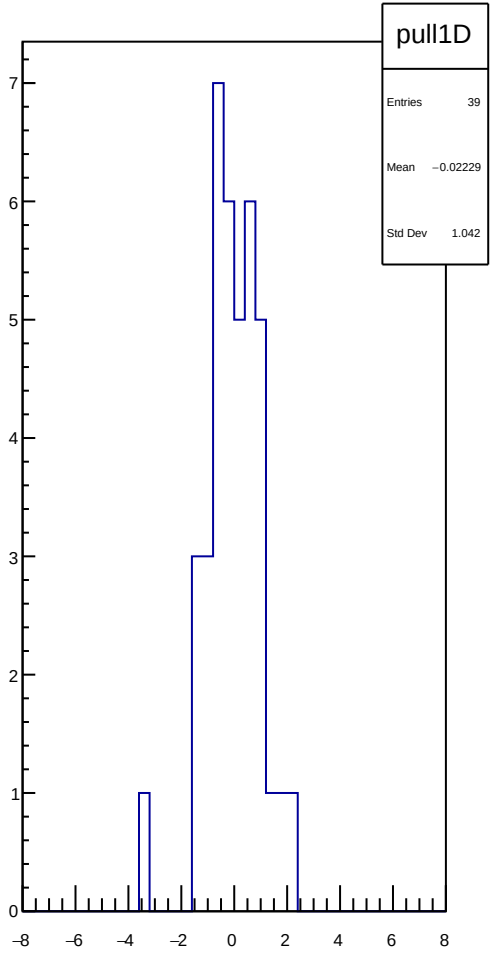
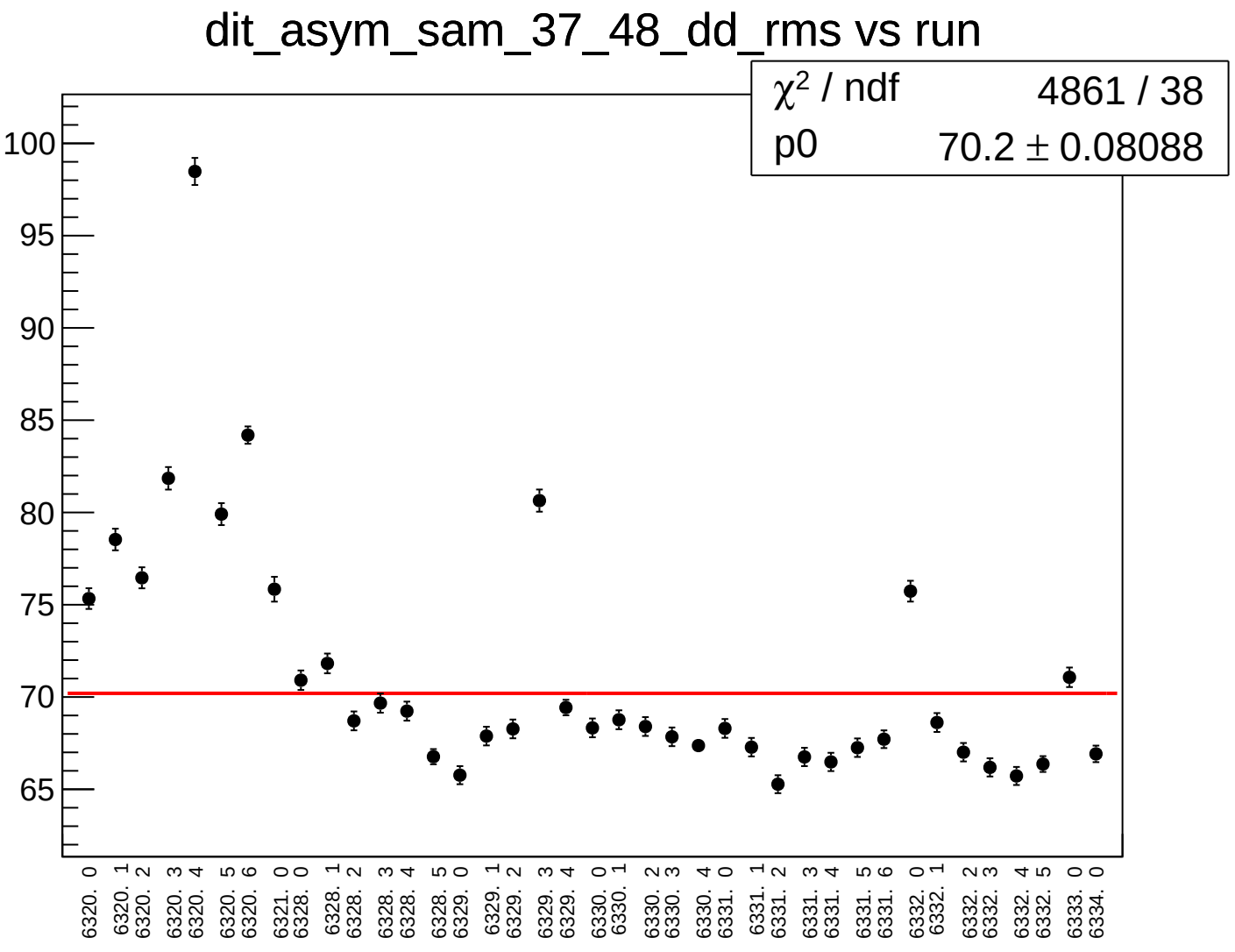
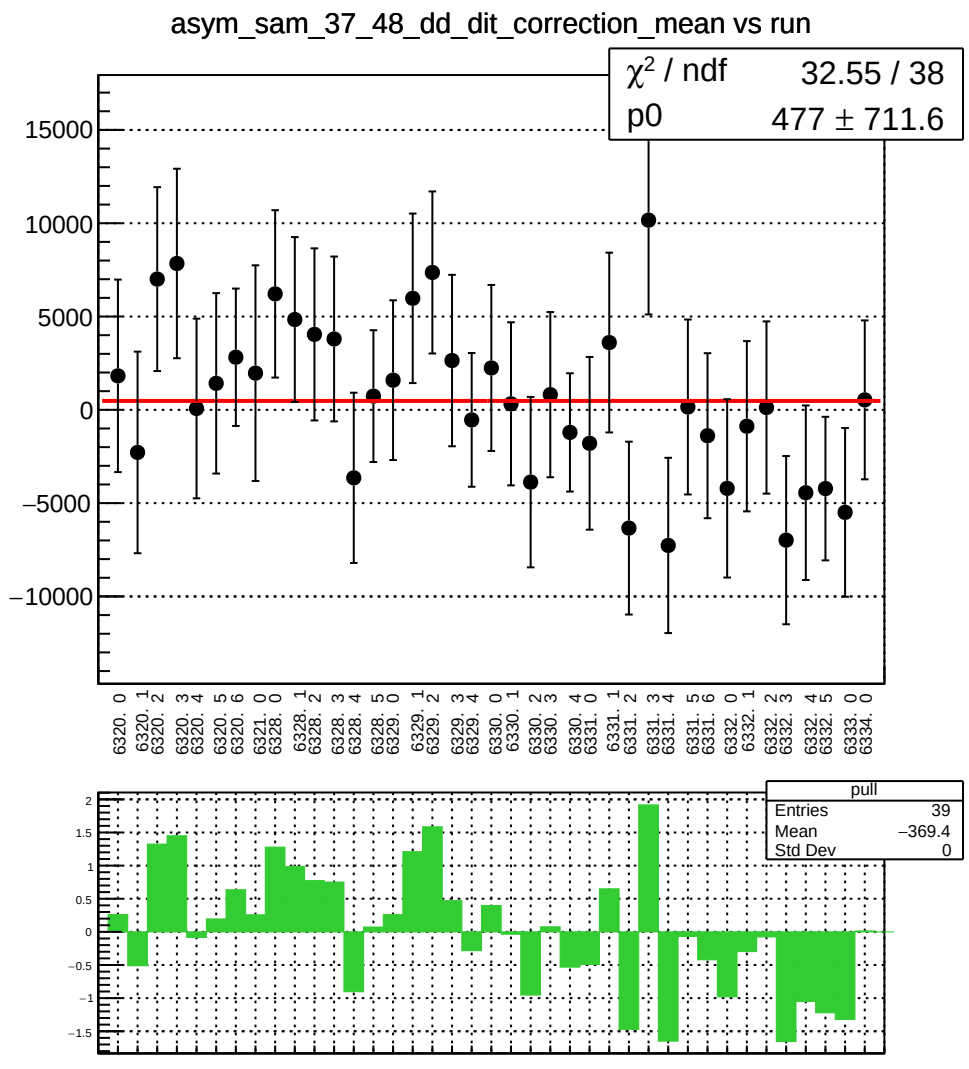
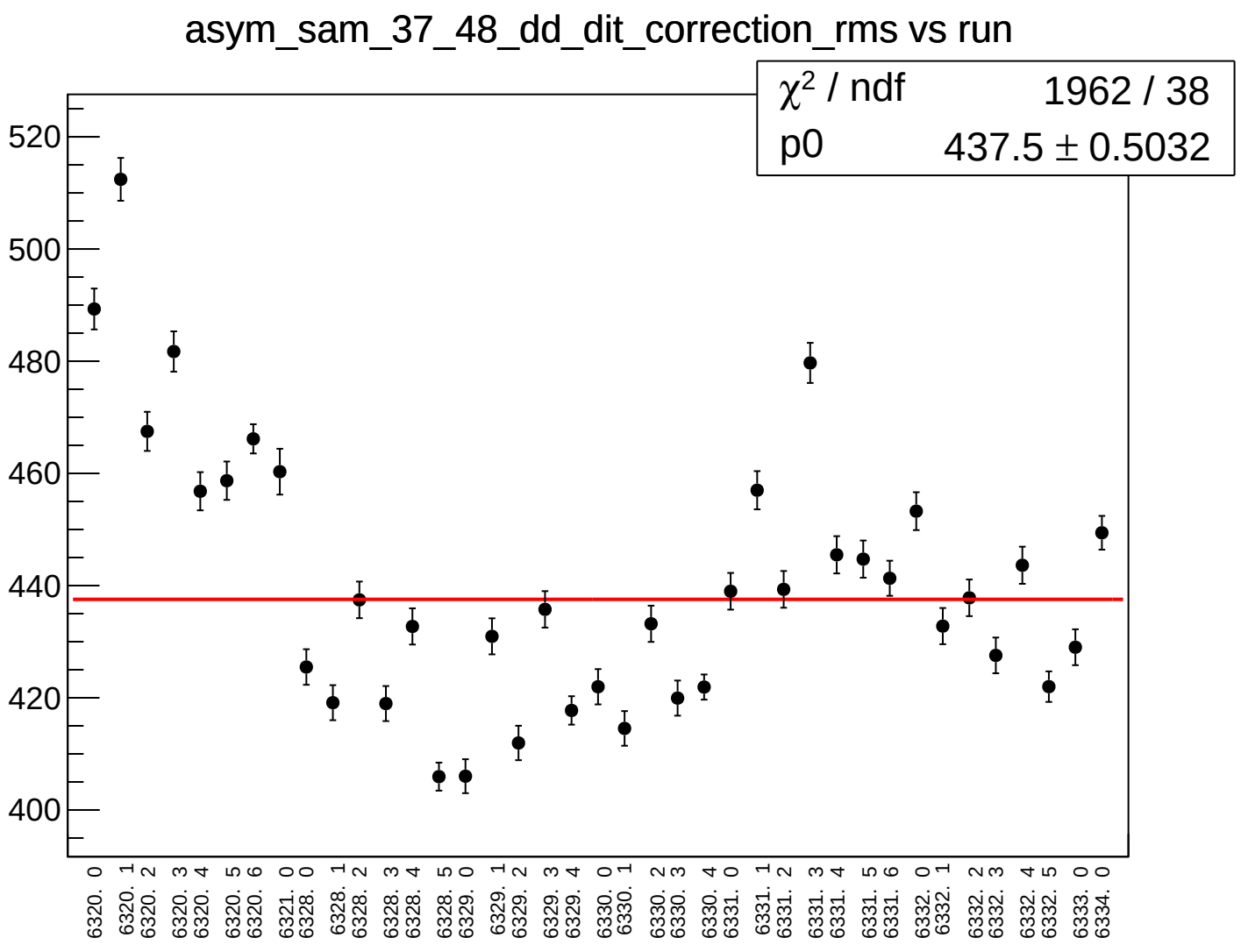
6332. 5
6333. 0
6334. 0

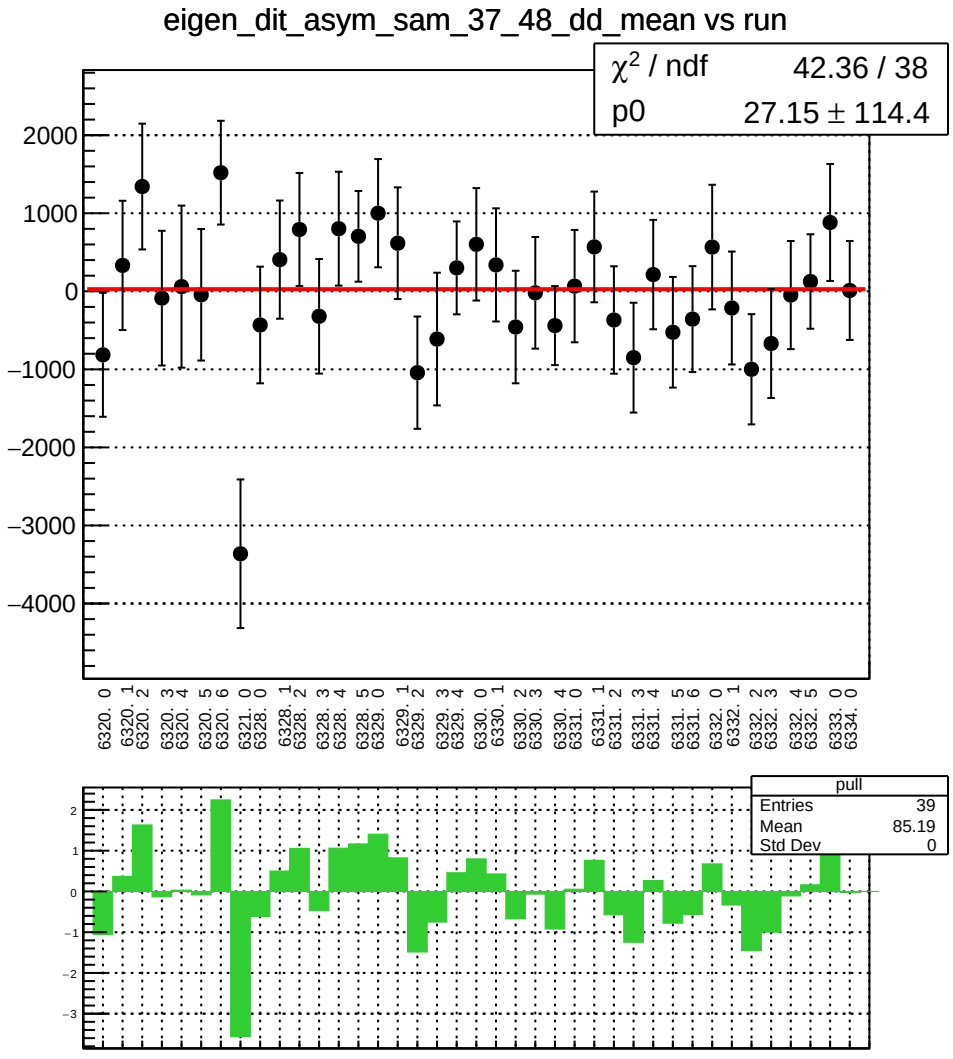

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.36 / 38
p0 27.15 ± 114.4
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 85.19
Std Dev 0
2
1
0
−1
−2
−3

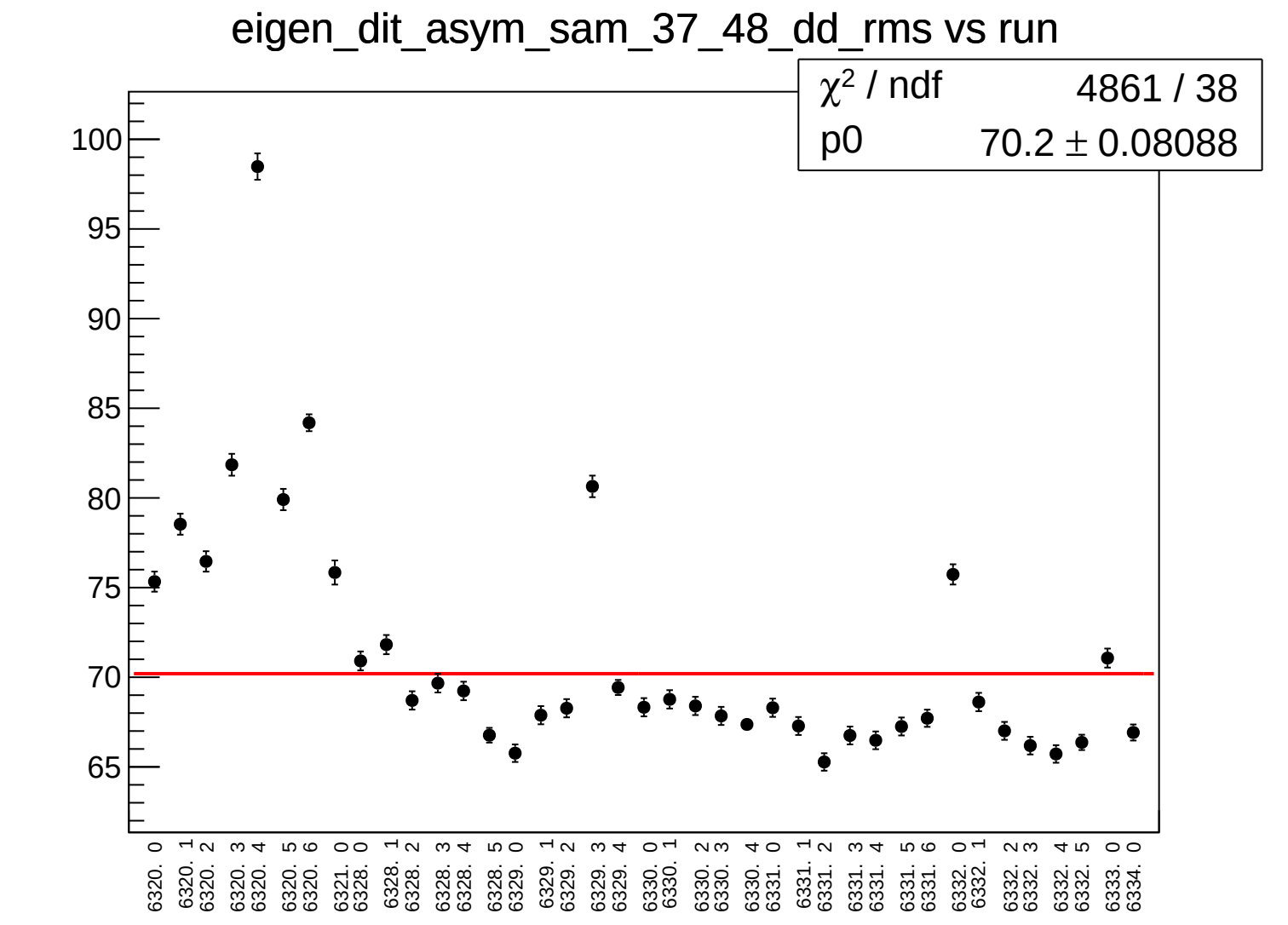

pull1D
Entries 39
Mean −0.02229
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

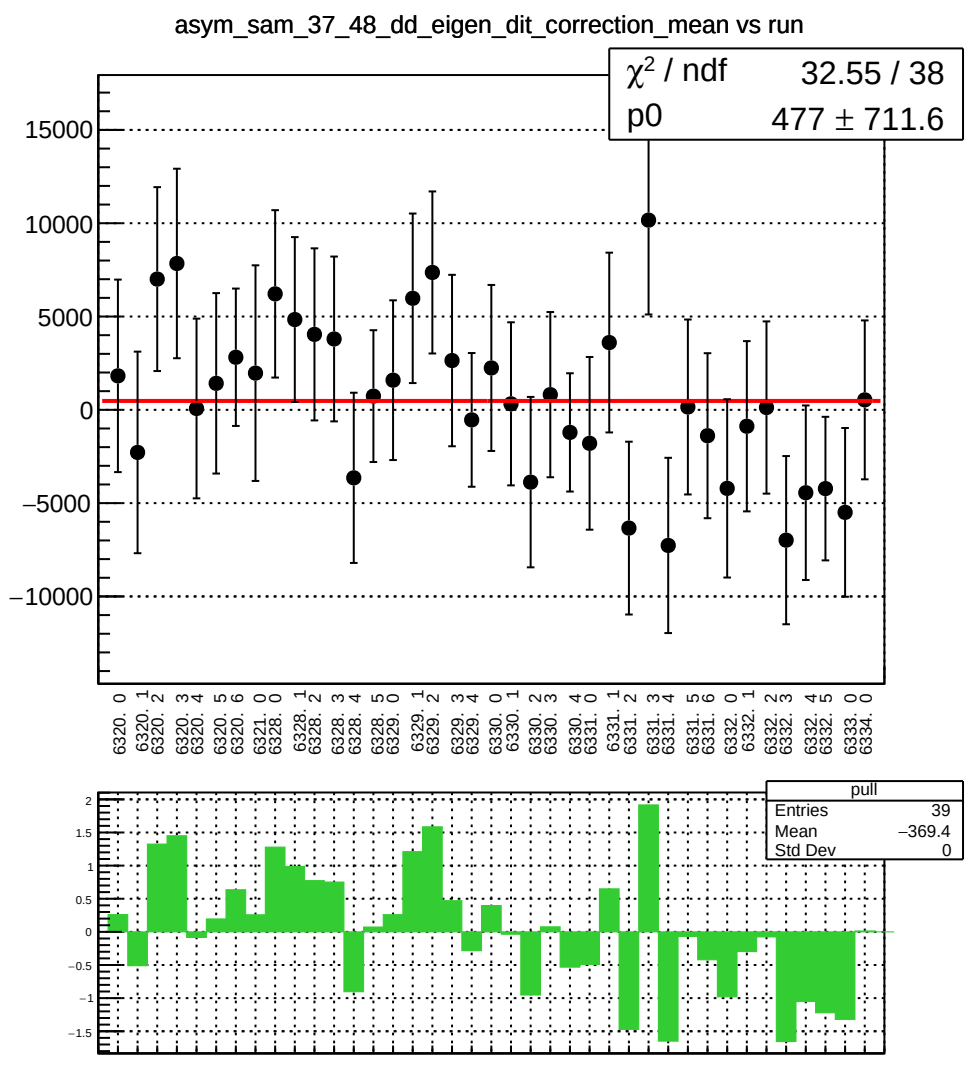

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4861 / 38
p0 70.2 ± 0.08088
100
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

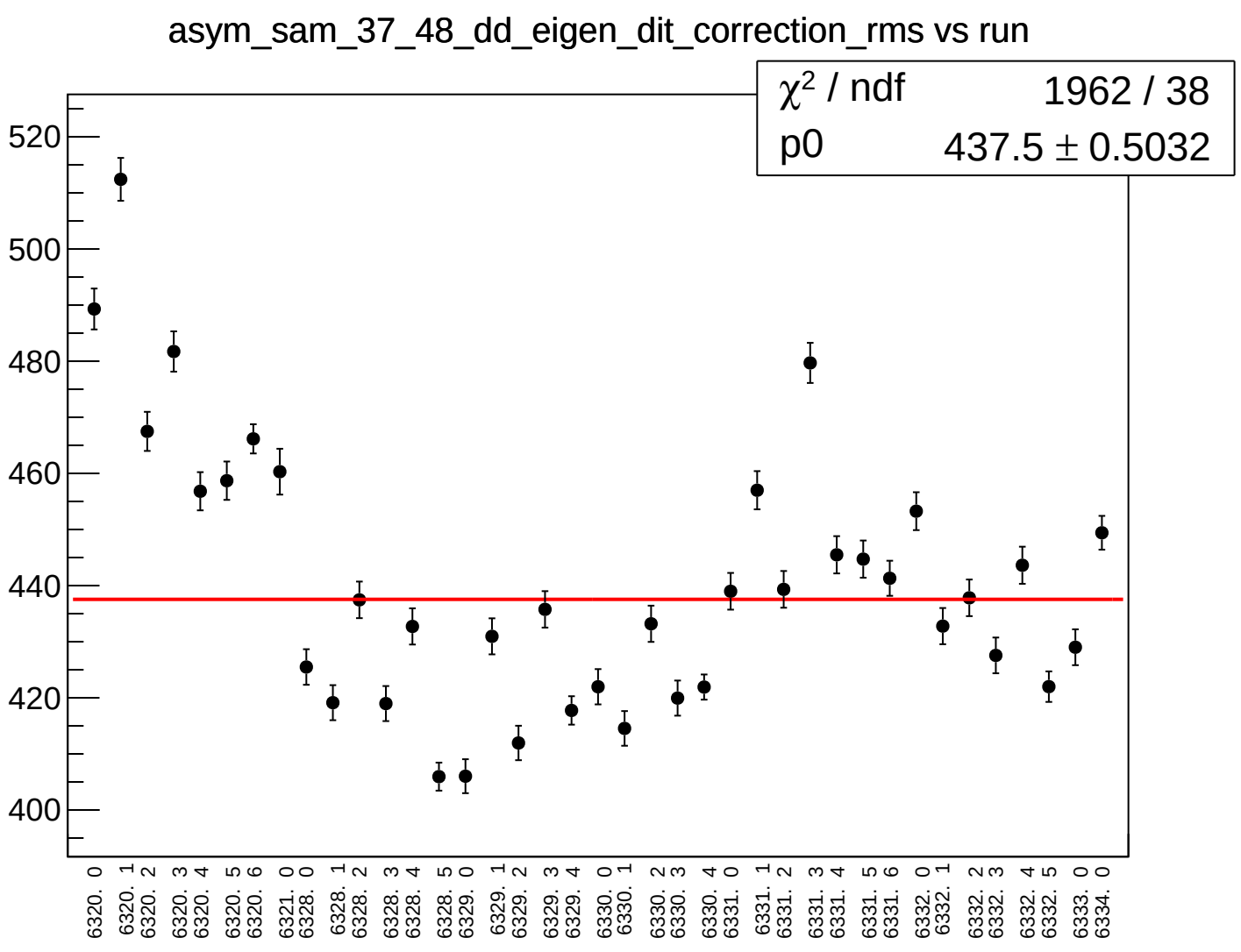

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 32.55 / 38
p0 477 ± 711.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −369.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01431
Std Dev 0.9134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

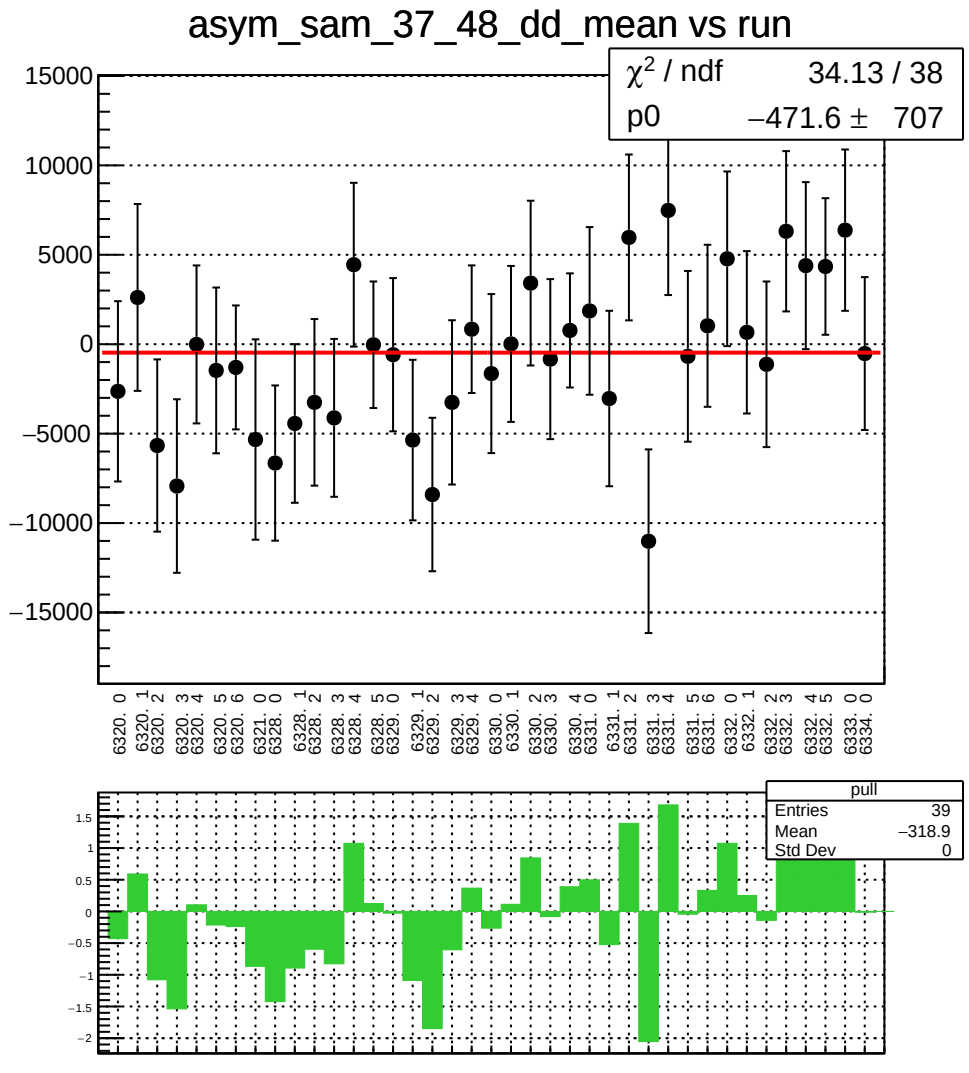

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1962 / 38
p0 437.5 ± 0.5032
520
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

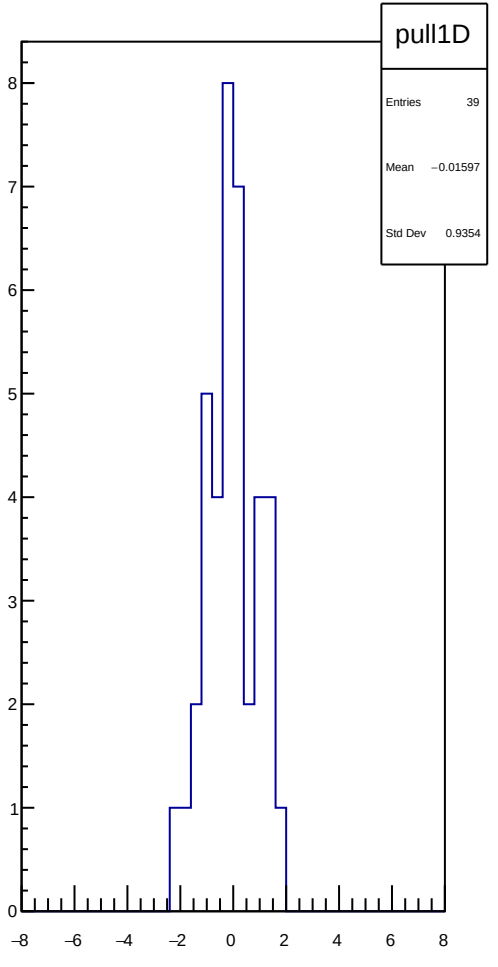

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.36 / 38
p0 27.15 ± 114.4
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 85.19
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.02229
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

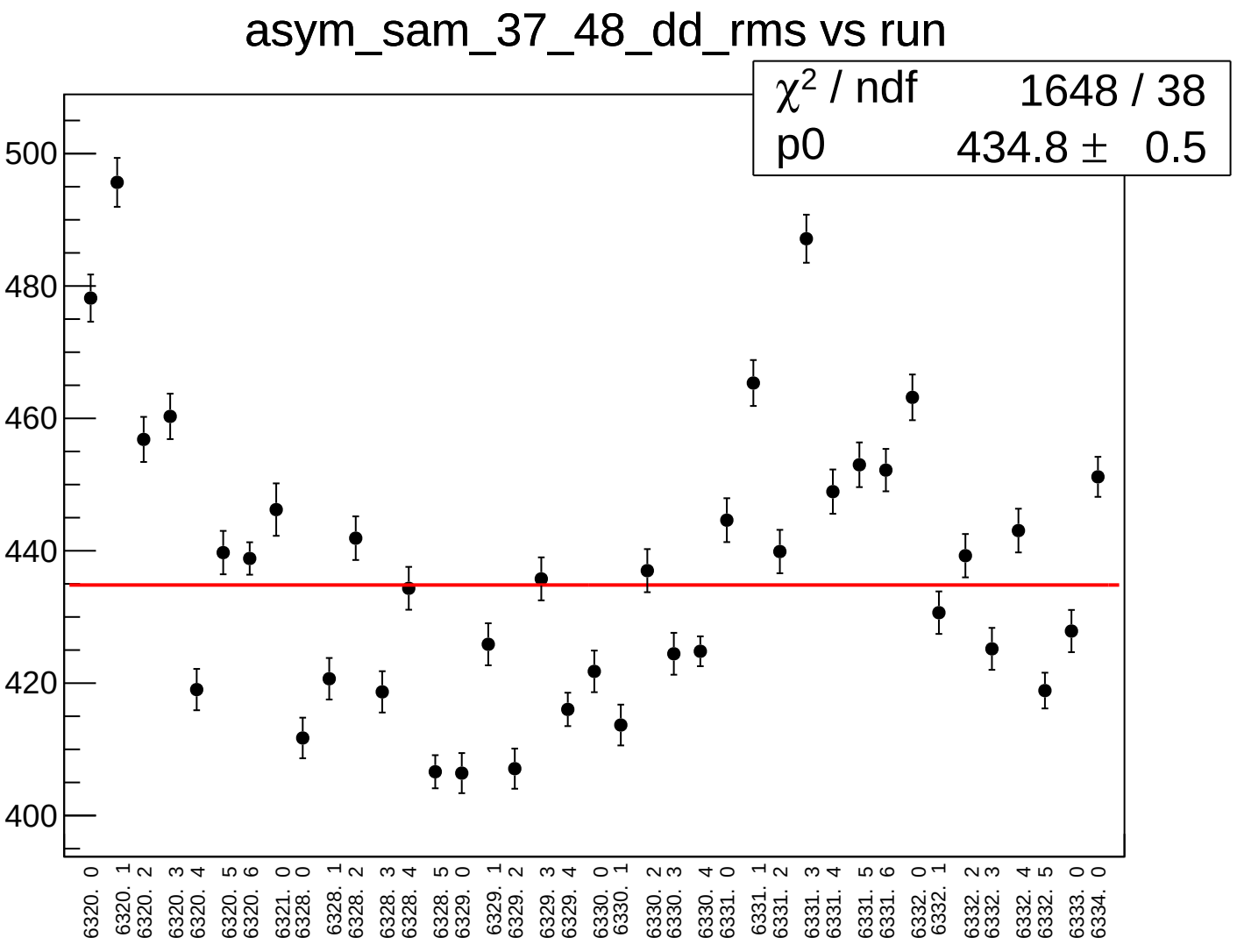

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4861 / 38
p0 70.2 ± 0.08088
100
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

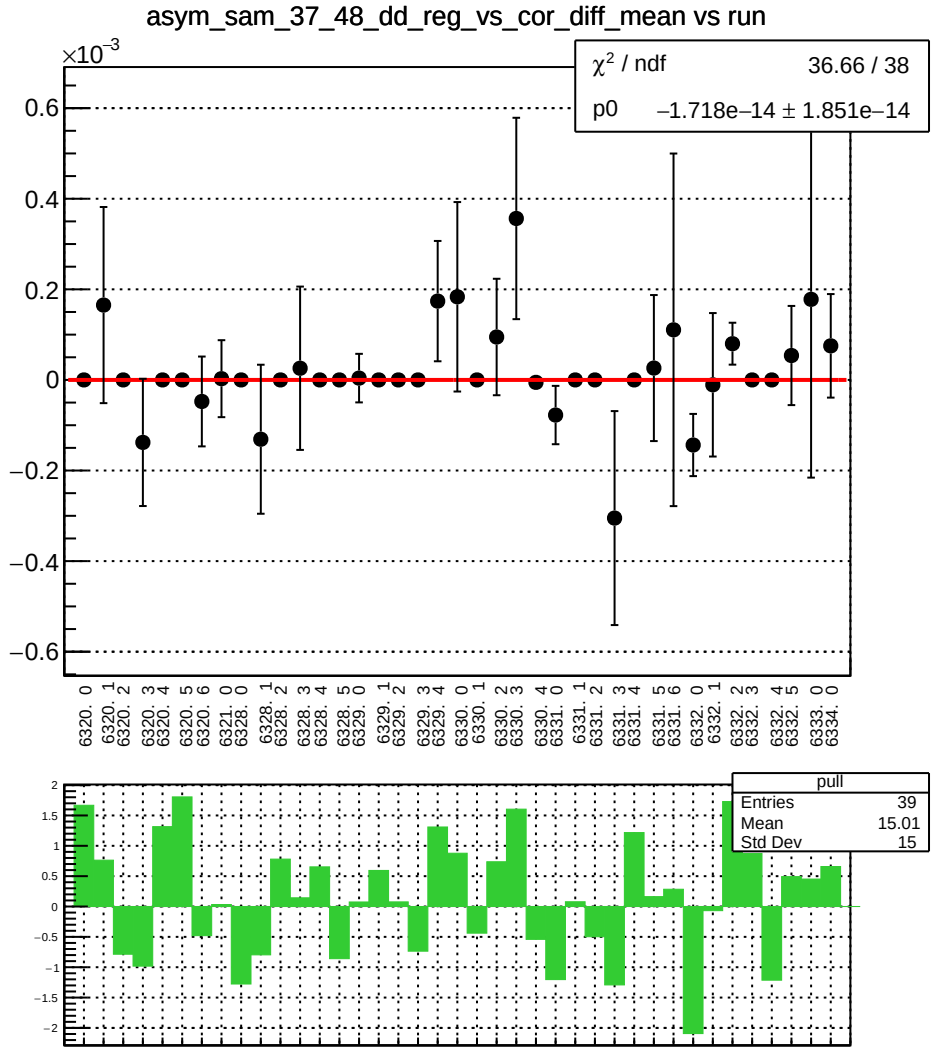

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.55 / 38
p0 477 ± 711.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −369.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01431
Std Dev 0.9134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

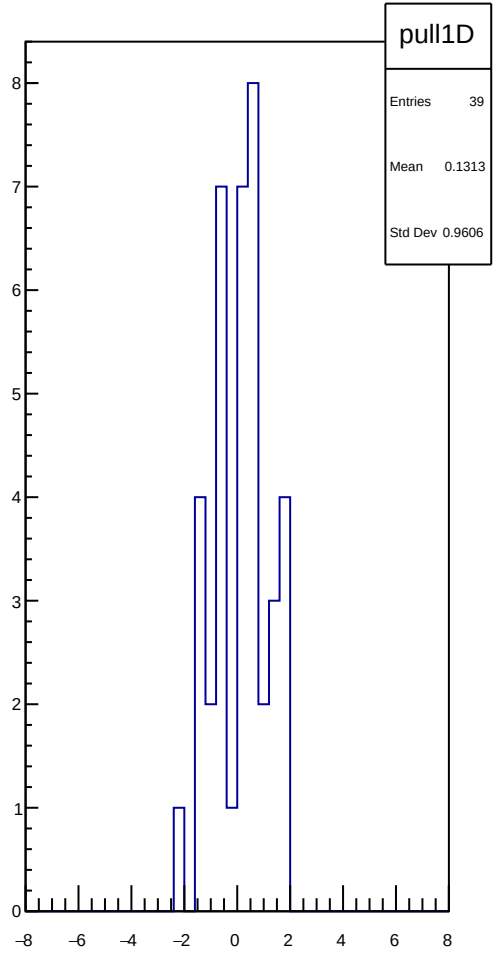

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1962 / 38
p0 437.5 ± 0.5032
520
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

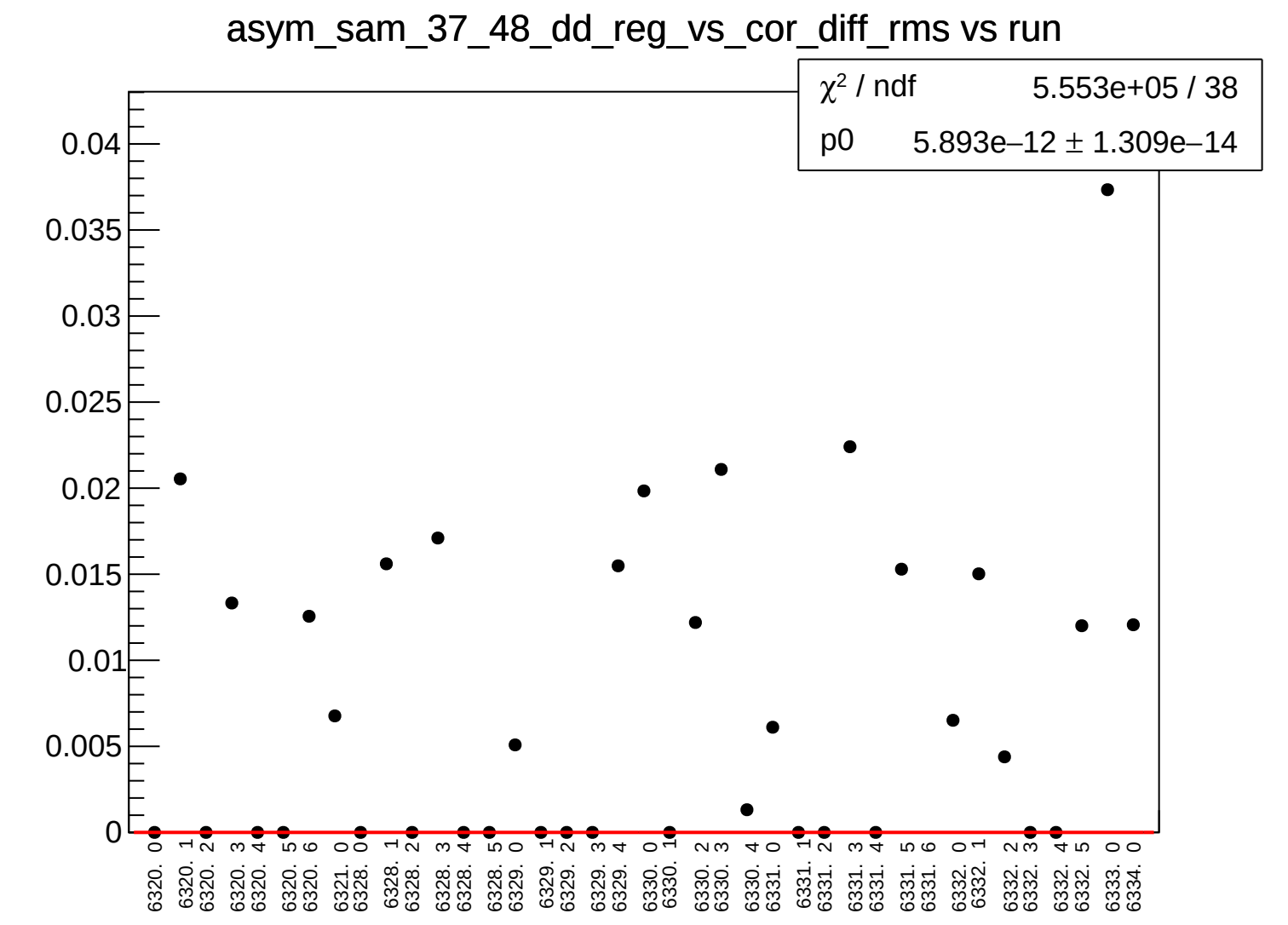

asym_sam_37_48_dd_mean vs run
χ² / ndf 34.13 / 38
p0 −471.6 ± 707
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −318.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

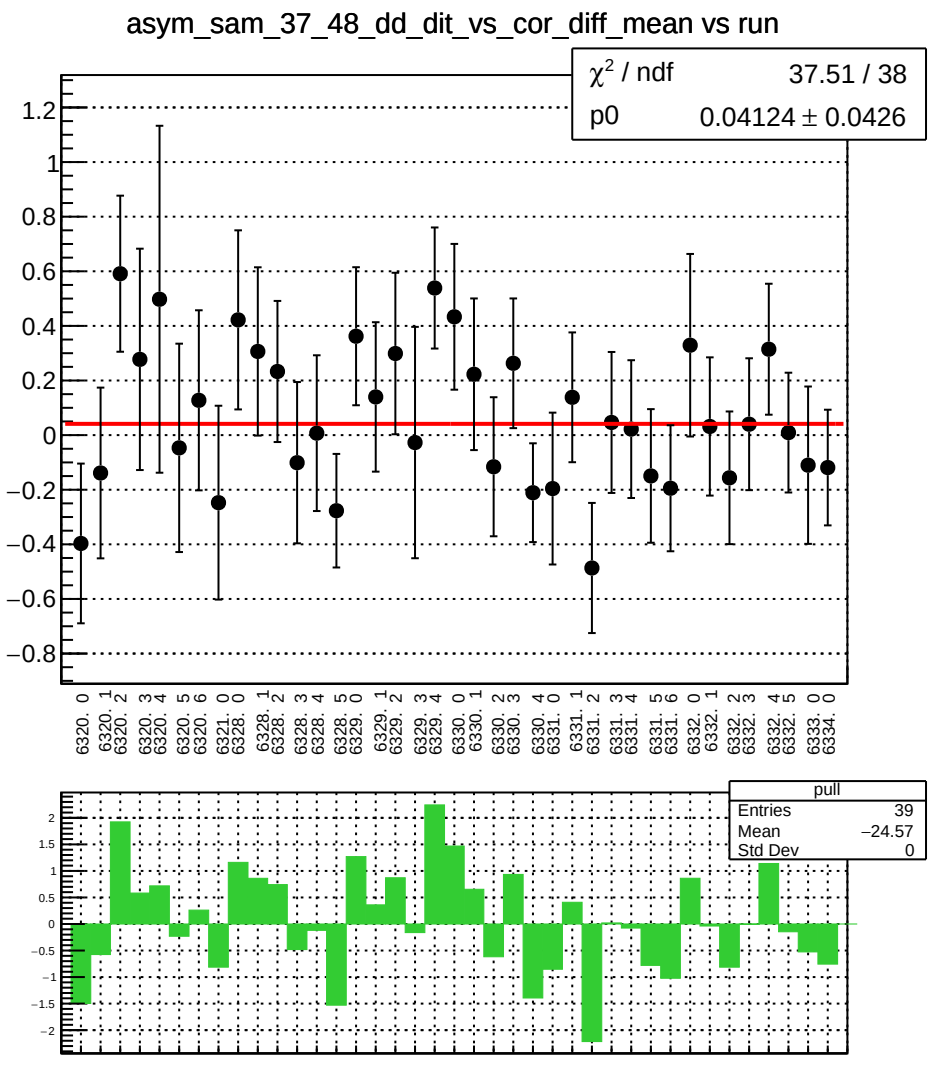

pull1D
Entries 39
Mean −0.01597
Std Dev 0.9354
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

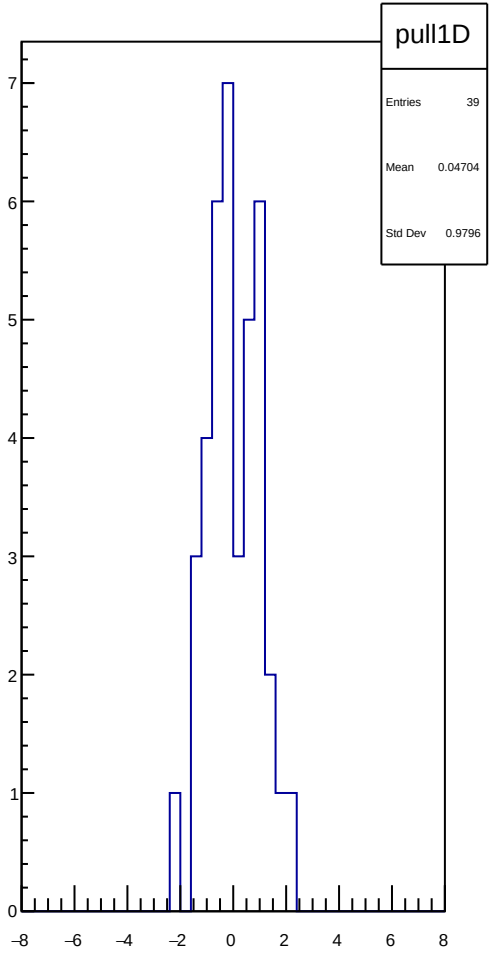

asym_sam_37_48_dd_rms vs run
χ² / ndf 1648 / 38
p0 434.8 ± 0.5
500
480
460
440
420
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

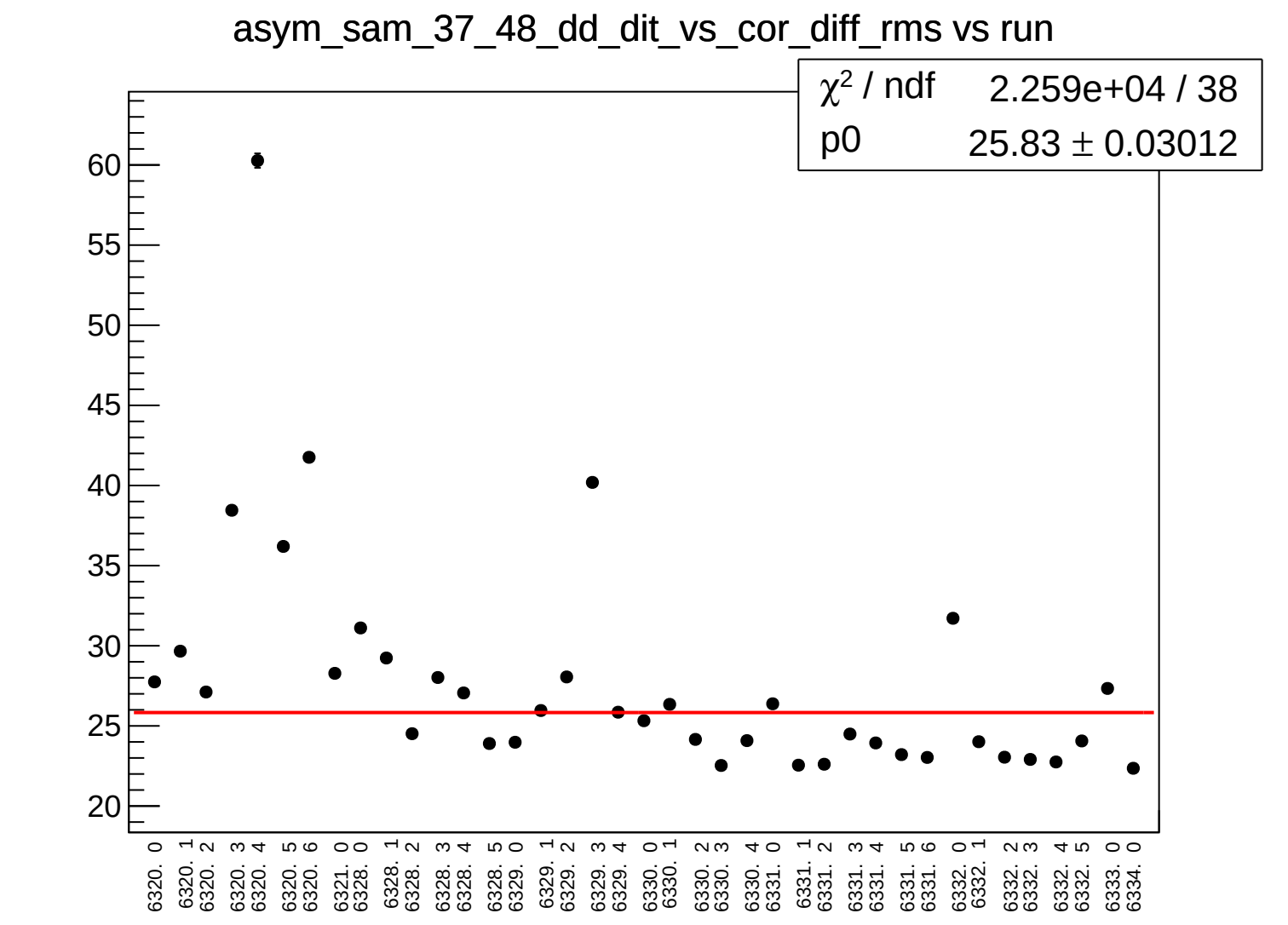

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 36.66 / 38
p0 −1.718e−14 ± 1.851e−14
pull
Entries 39
Mean 15.01
Std Dev 15

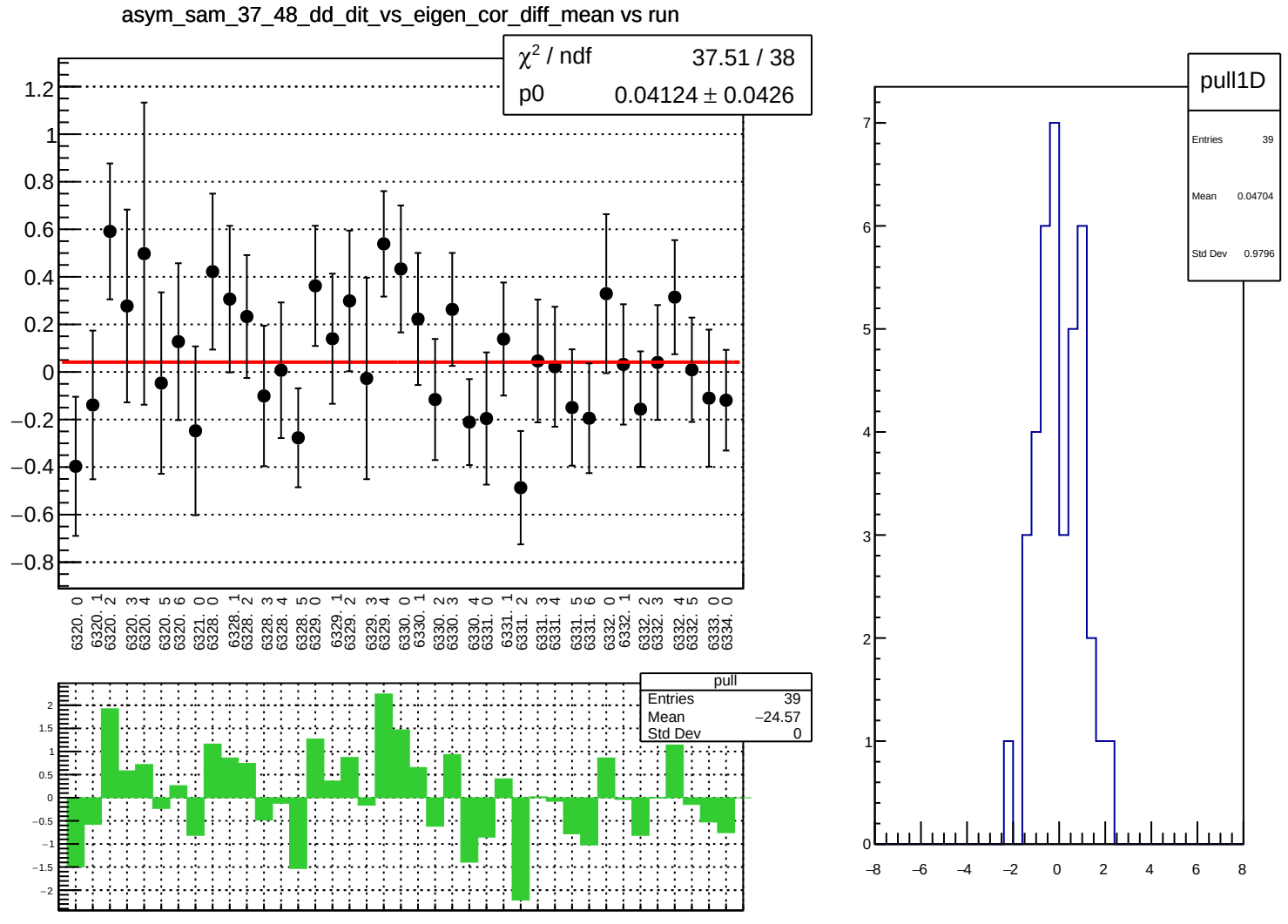

pull1D
Entries 39
Mean 0.1313
Std Dev 0.9606

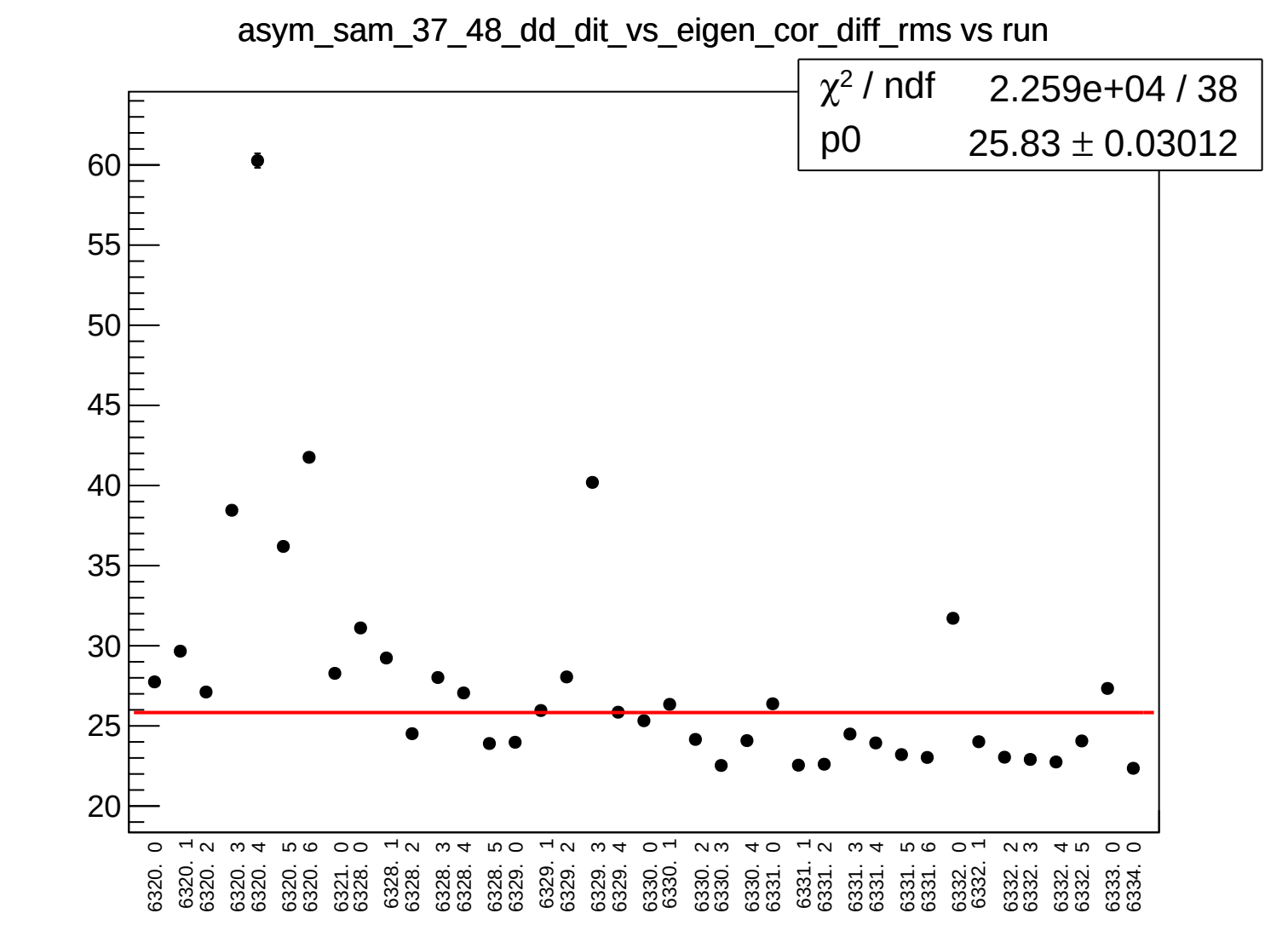

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.553e+05 / 38
p0 5.893e−12 ± 1.309e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.51 / 38
p0 0.04124 ± 0.0426
pull
Entries 39
Mean −24.57
Std Dev 0


pull1D
Entries 39
Mean 0.04704
Std Dev 0.9796


asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.259e+04 / 38
p0 25.83 ± 0.03012
60
55
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.51 / 38
p0 0.04124 ± 0.0426
pull
Entries 39
Mean −24.57
Std Dev 0
pull1D
Entries 39
Mean 0.04704
Std Dev 0.9796


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.259e+04 / 38
p0 25.83 ± 0.03012
60
55
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
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6328. 3
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6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
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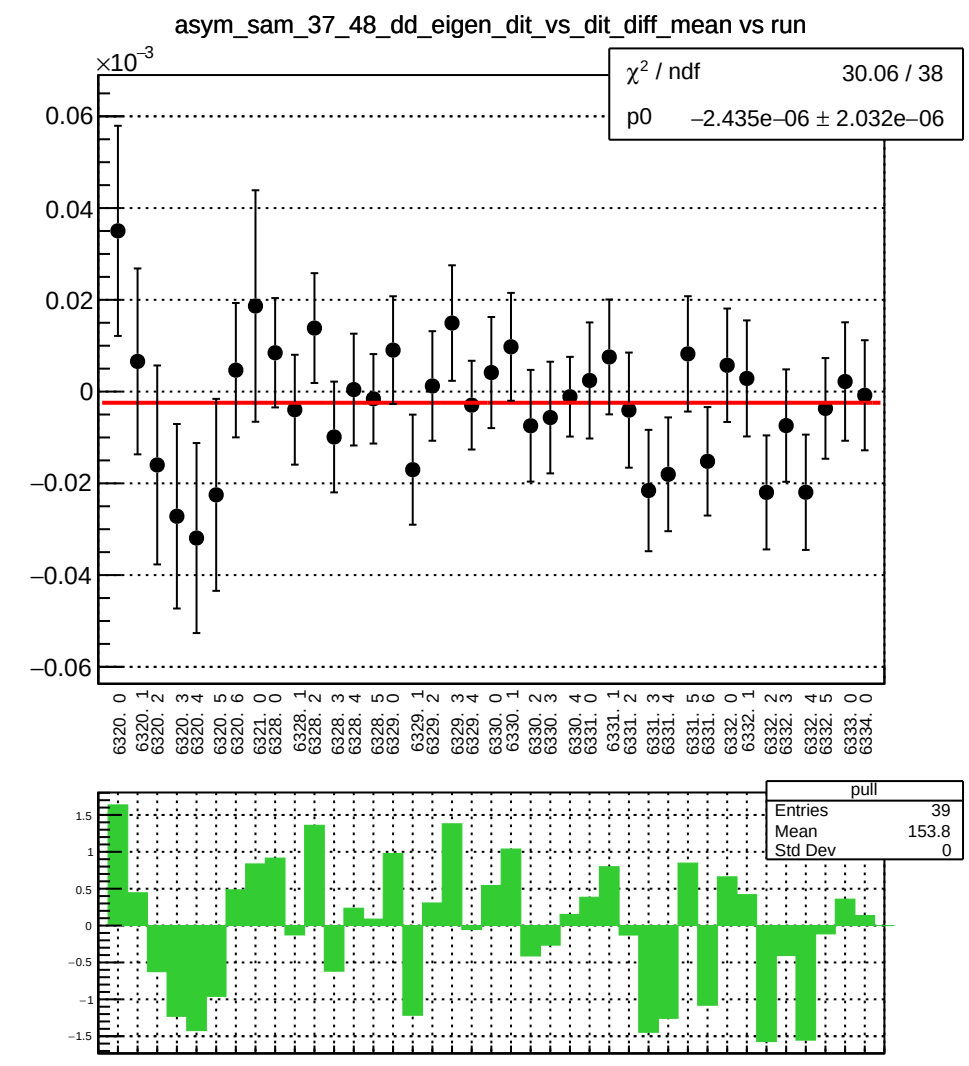
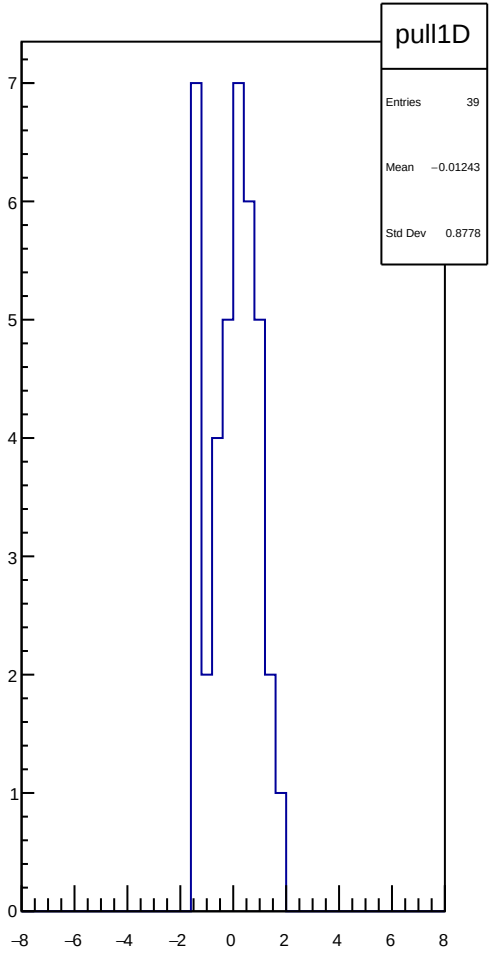
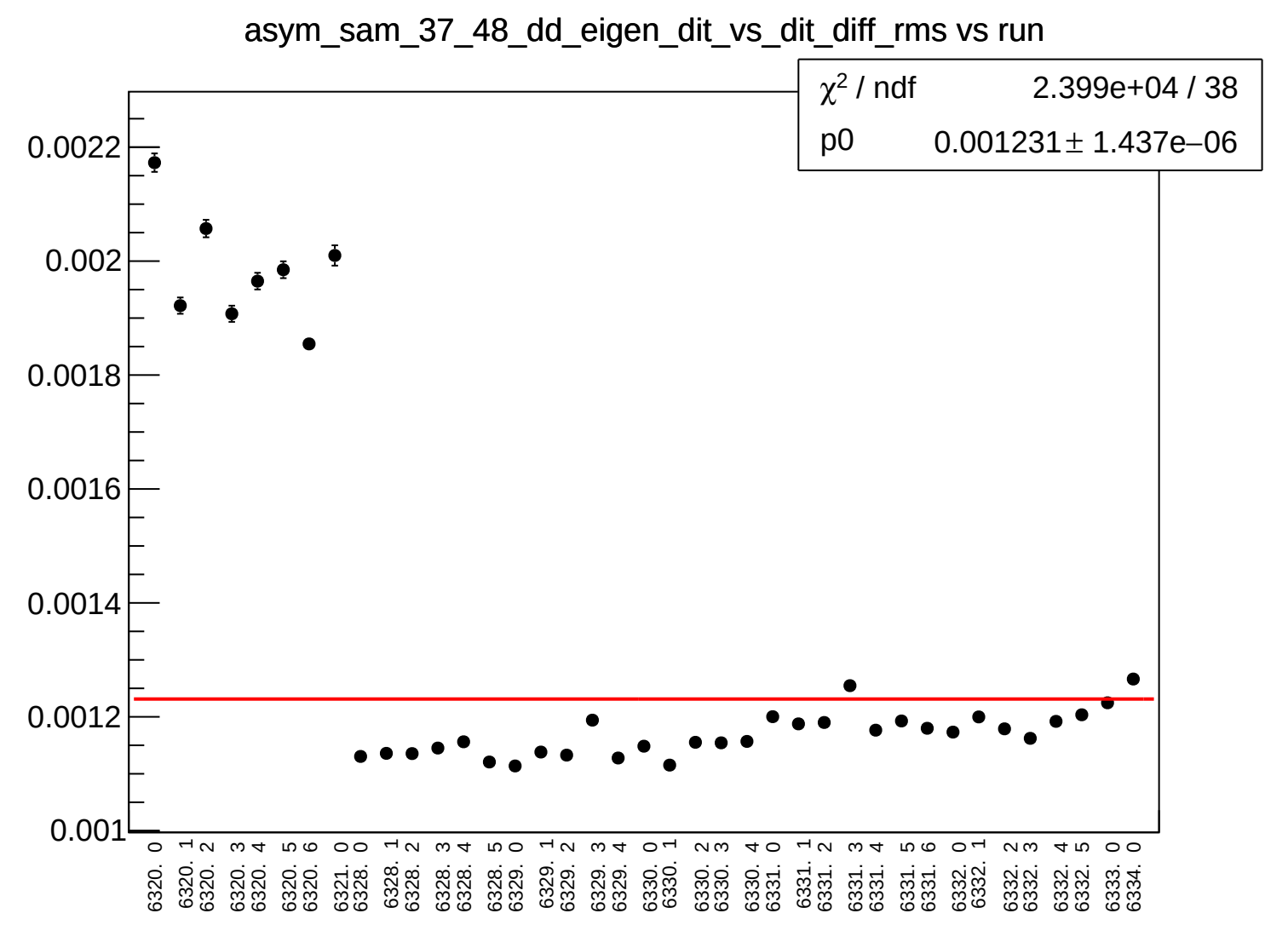
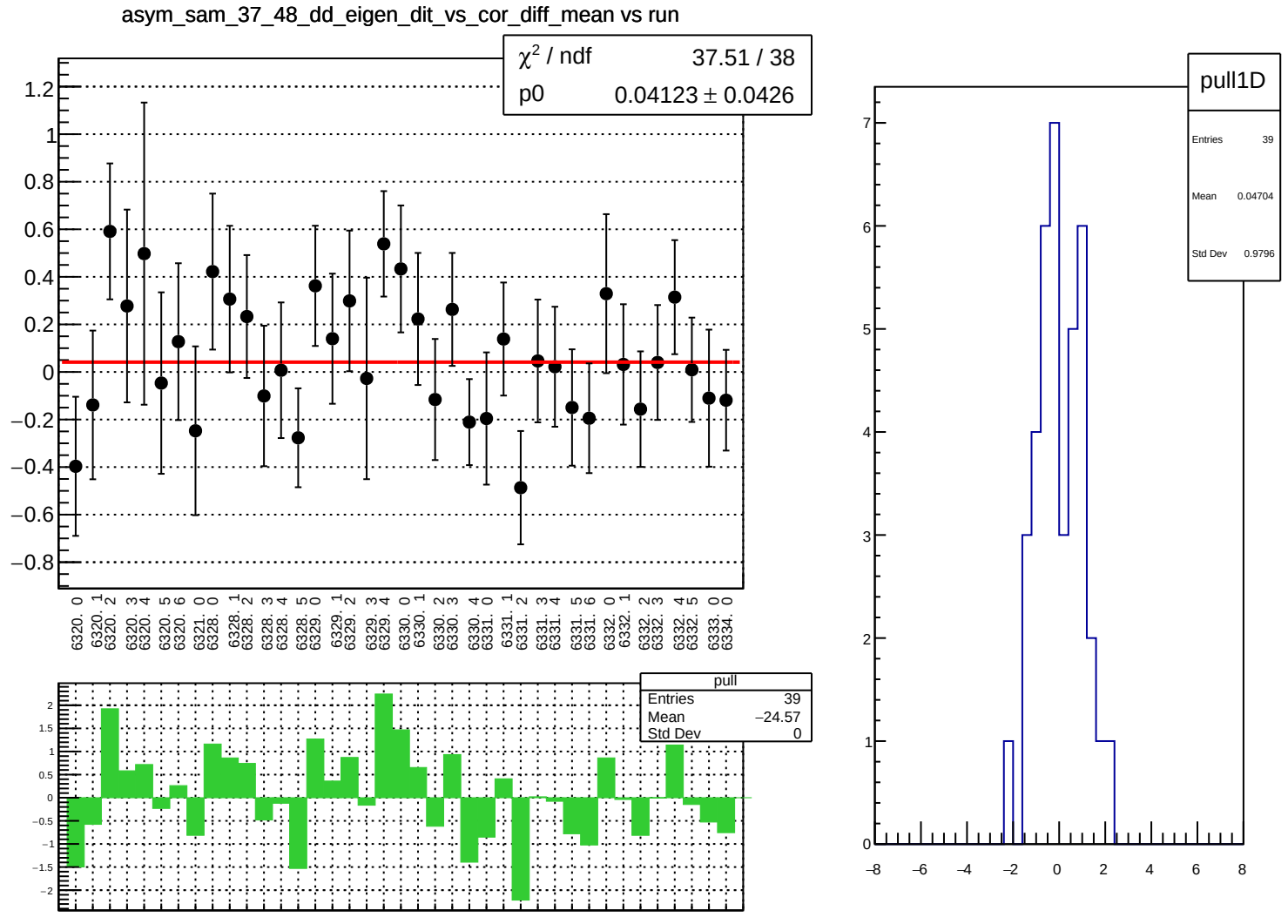
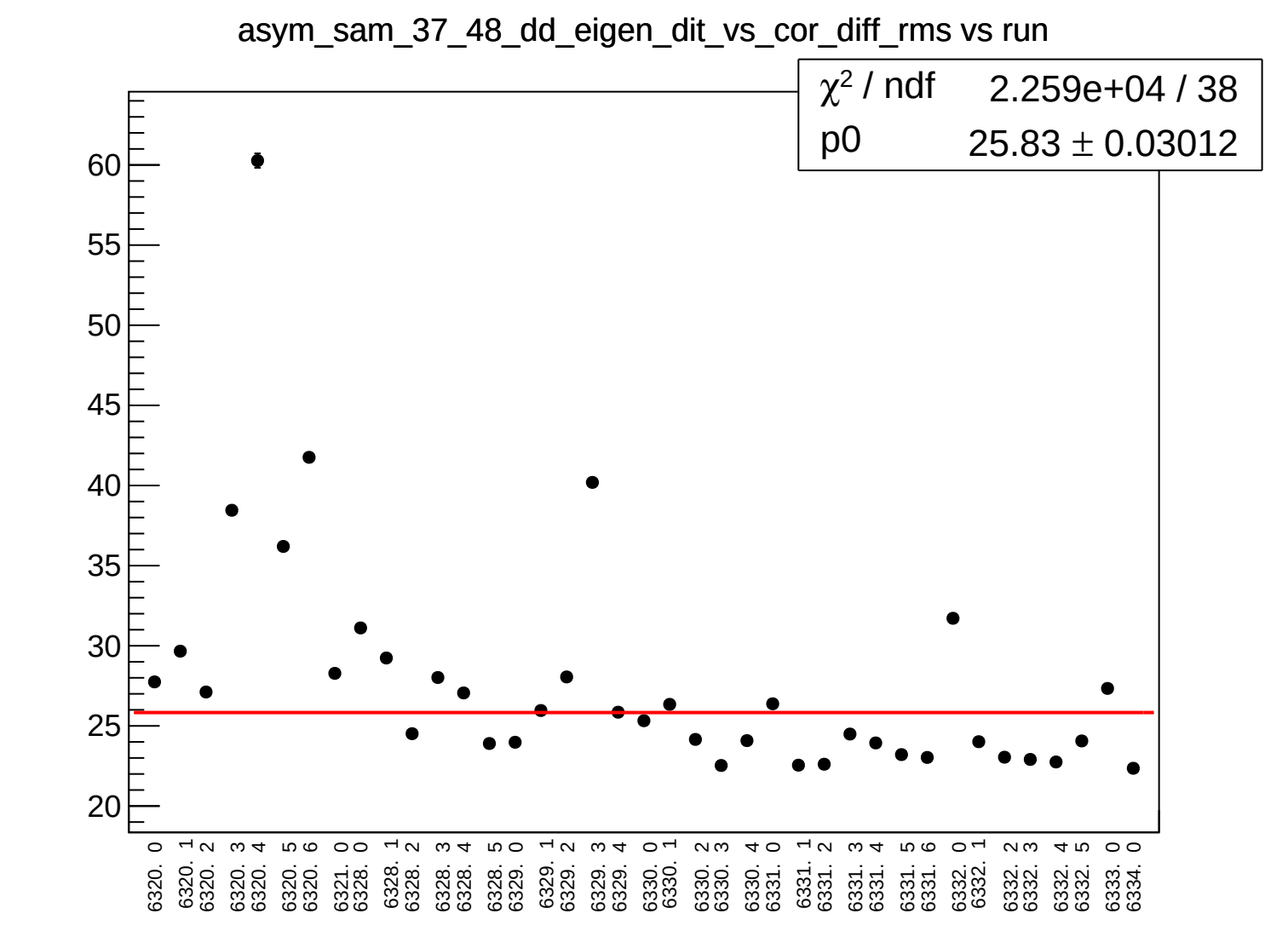
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

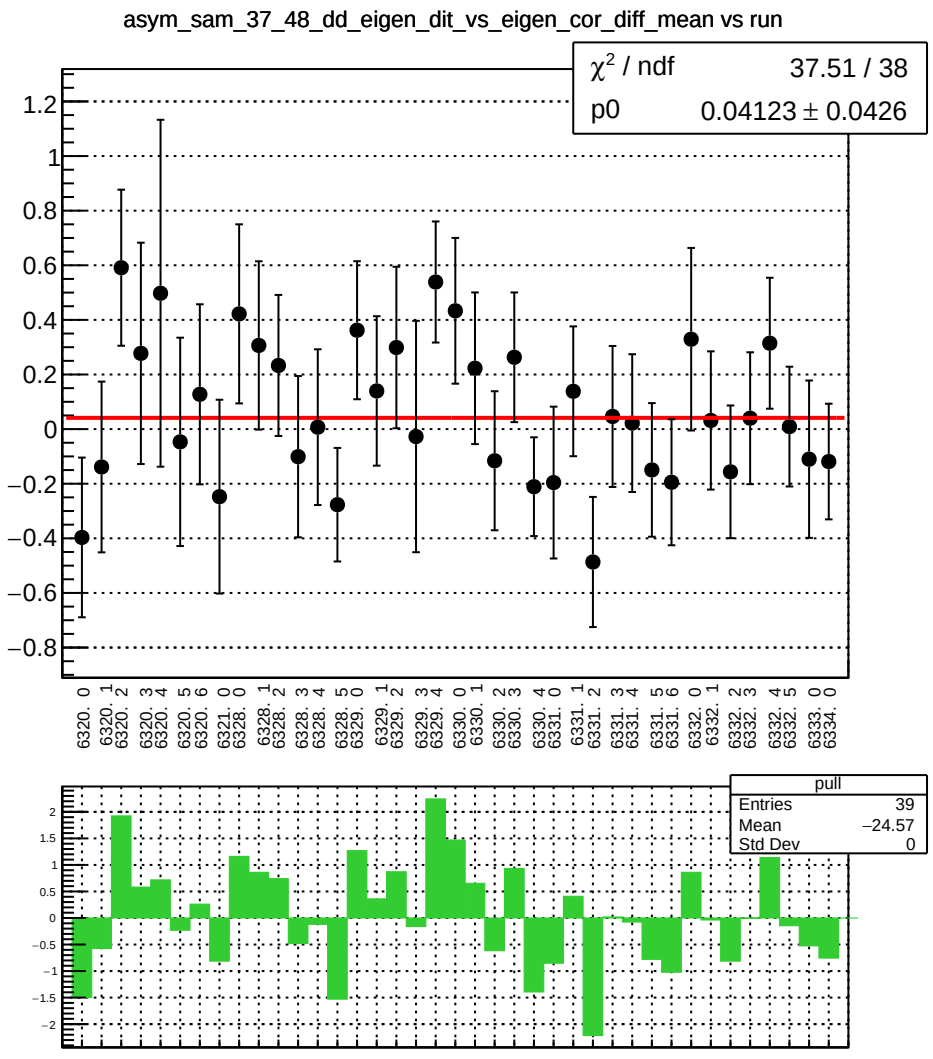

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.06 / 38
p0 −2.435e−06 ± 2.032e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 153.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

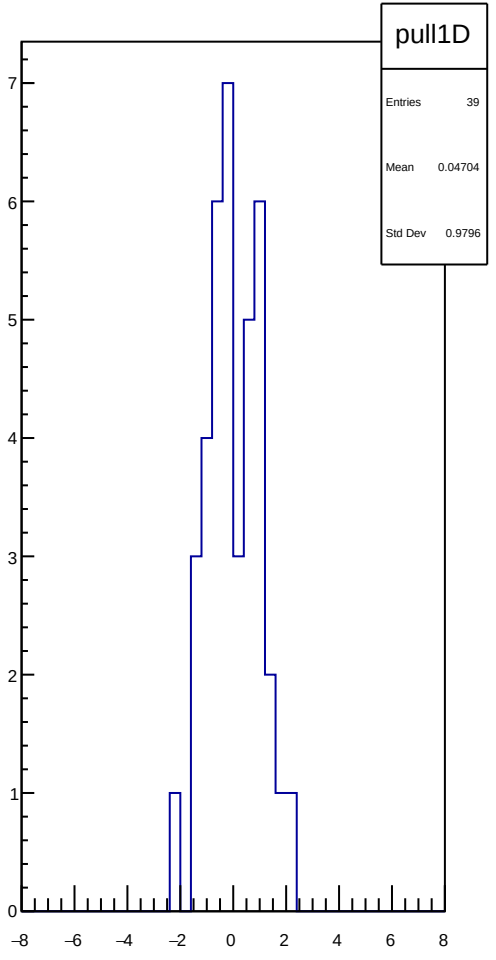

pull1D
Entries 39
Mean −0.01243
Std Dev 0.8778
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

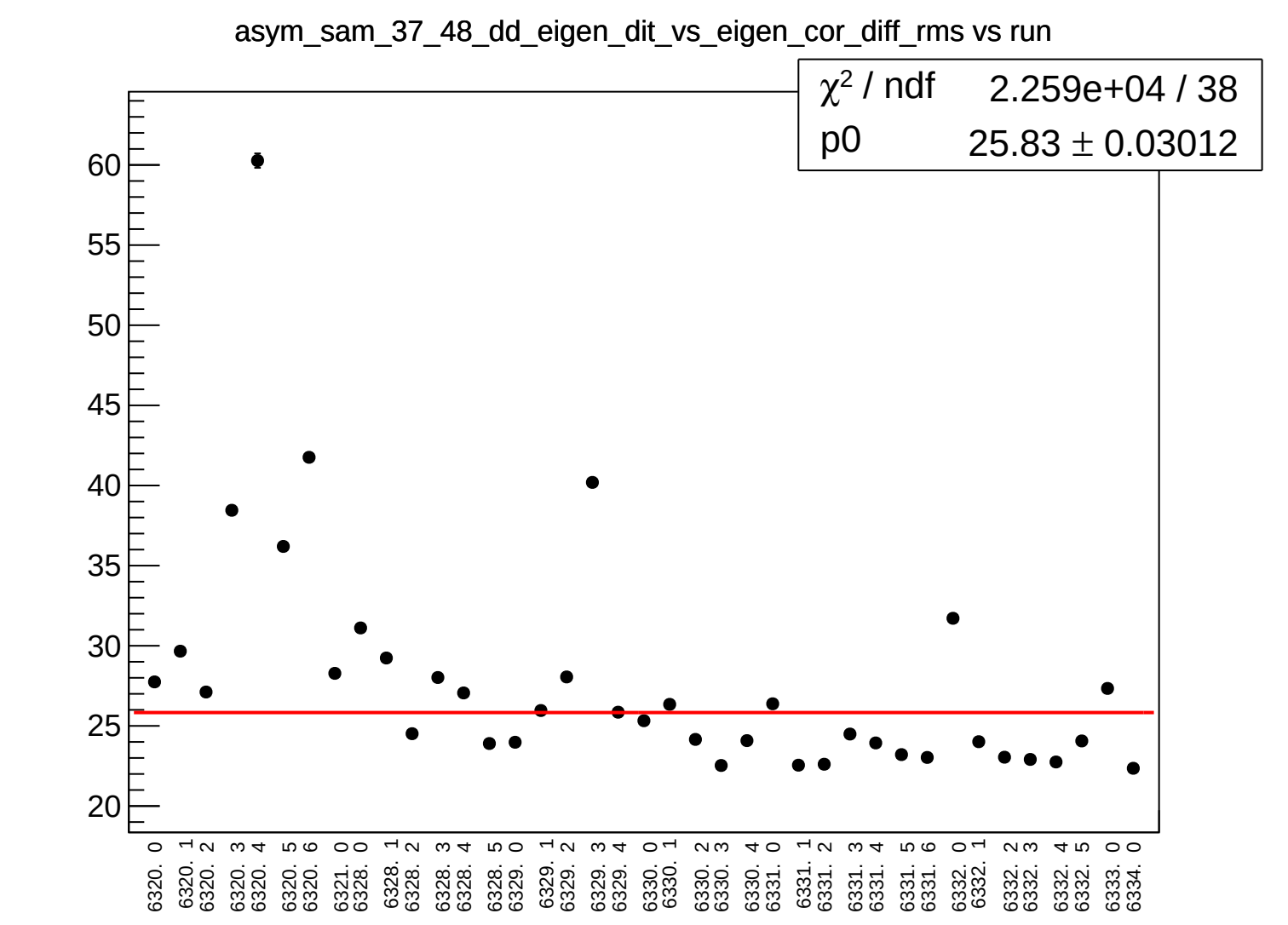

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.399e+04 / 38
p0 0.001231 ± 1.437e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

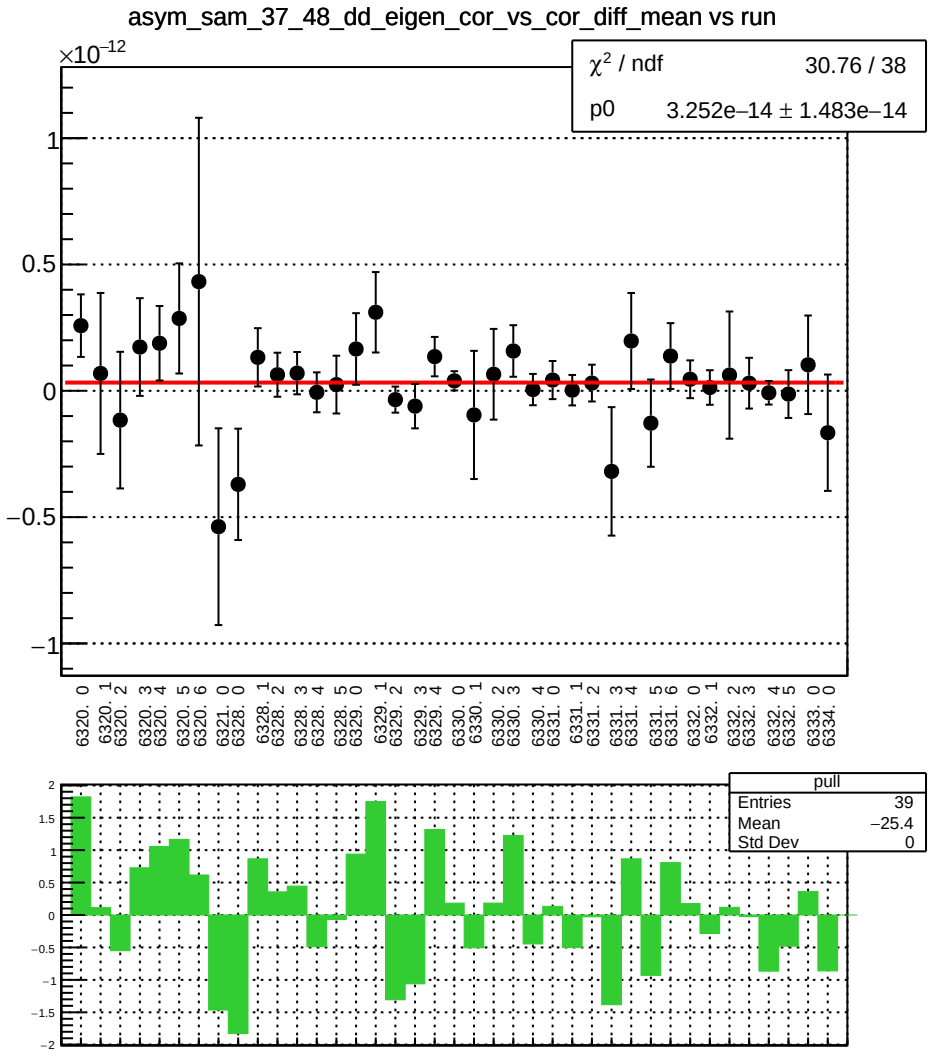

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.51 / 38
p0 0.04123 ± 0.0426
pull
Entries 39
Mean −24.57
Std Dev 0
pull1D
Entries 39
Mean 0.04704
Std Dev 0.9796

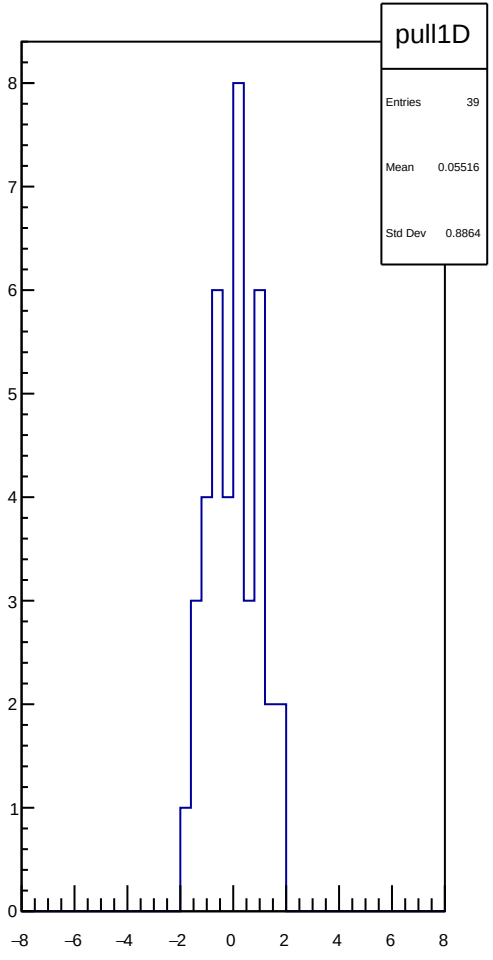

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.259e+04 / 38
p0 25.83 ± 0.03012
60
55
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

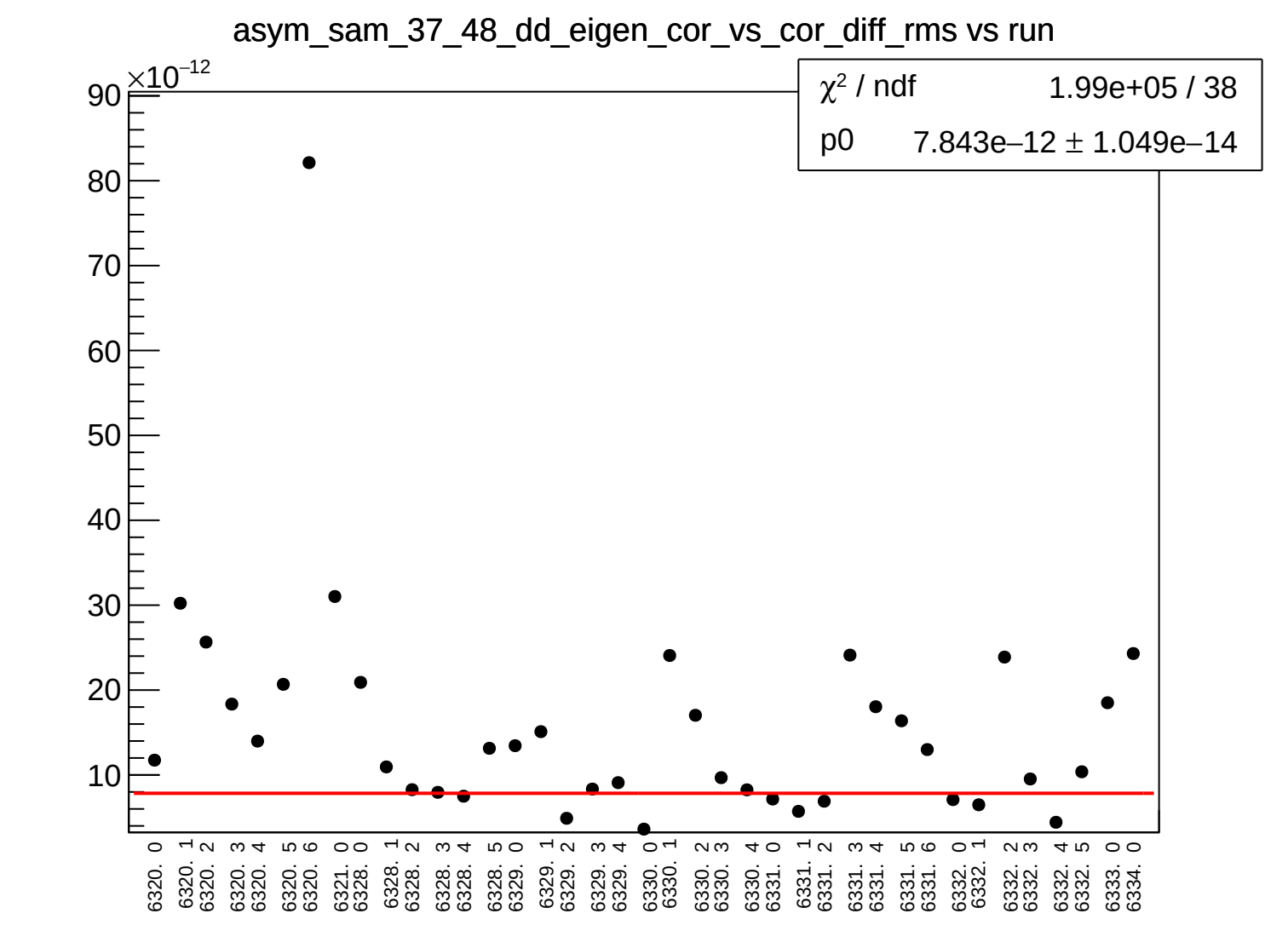

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.51 / 38
p0 0.04123 ± 0.0426
pull
Entries 39
Mean −24.57
Std Dev 0

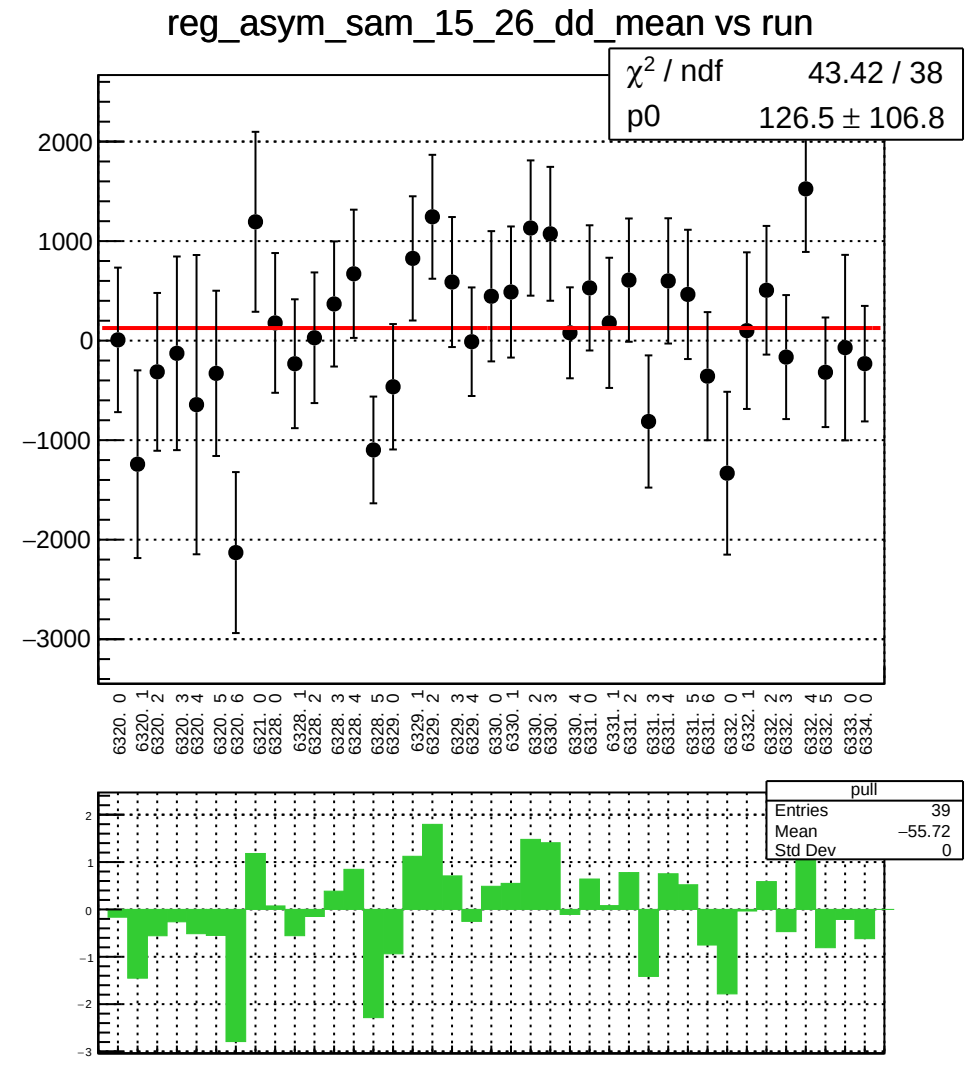

pull1D
Entries 39
Mean 0.04704
Std Dev 0.9796

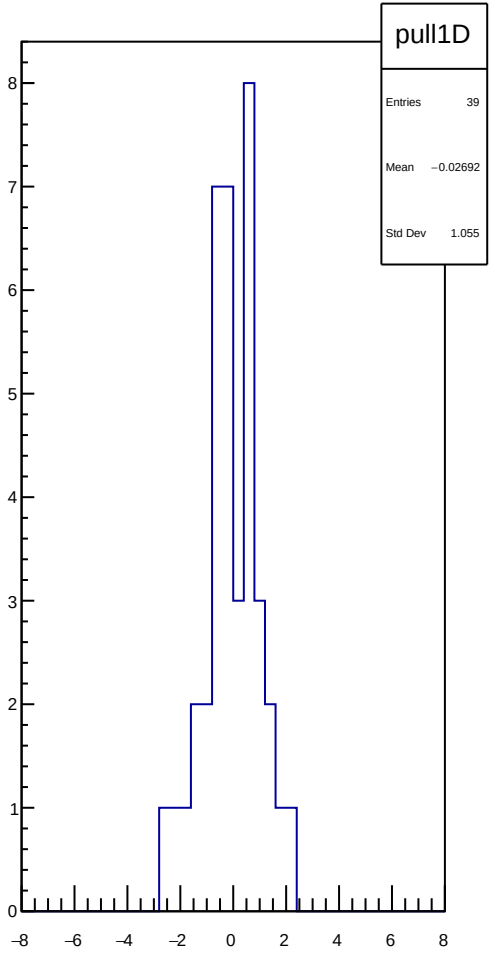

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.259e+04 / 38
p0 25.83 ± 0.03012
60
55
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

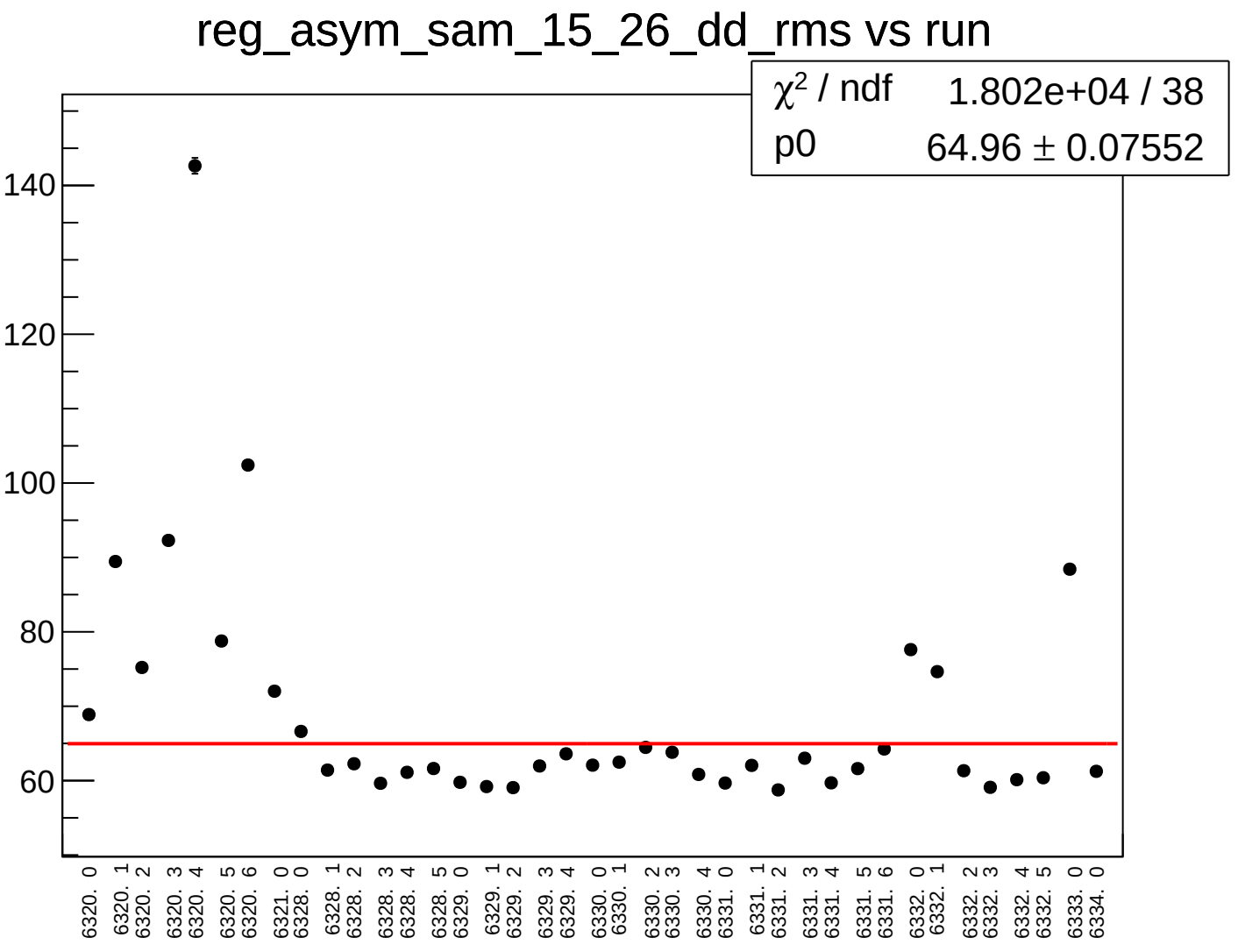

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 30.76 / 38
p0 3.252e−14 ± 1.483e−14
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

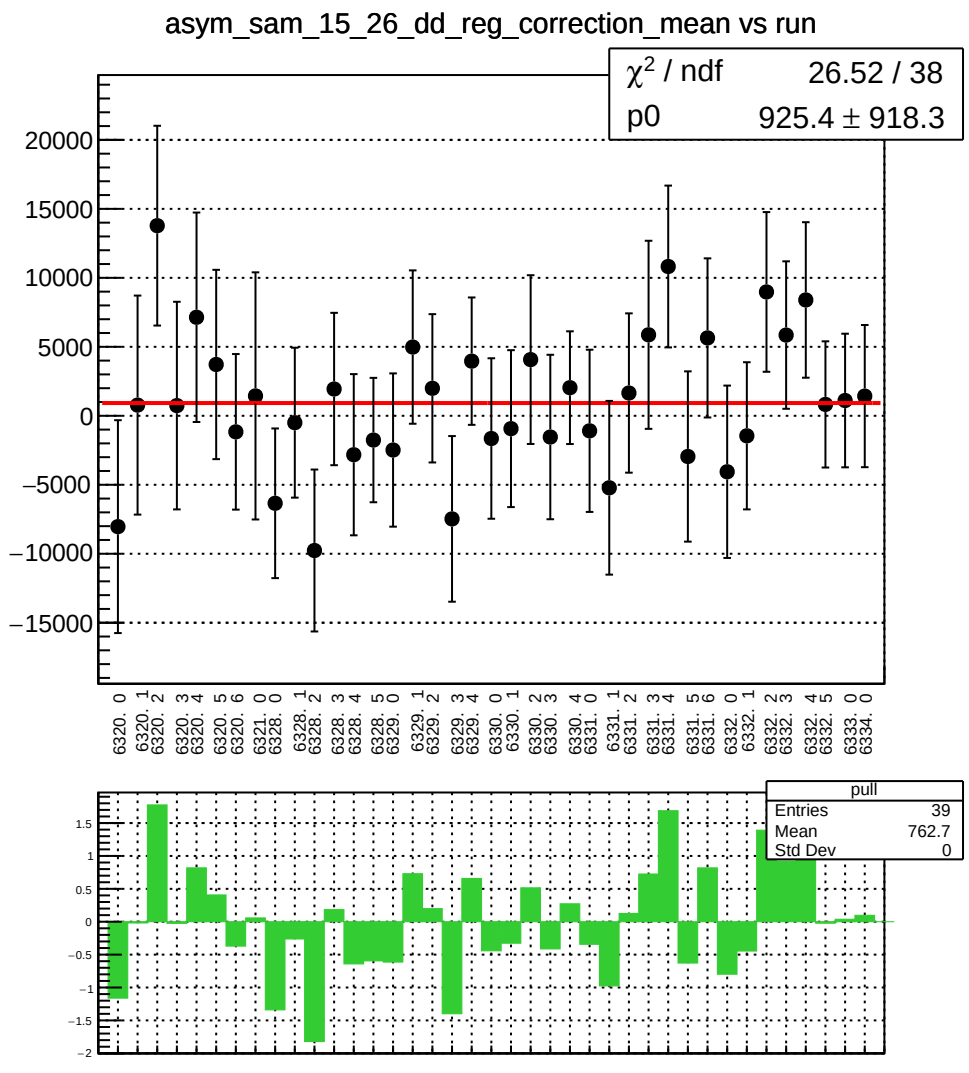

pull1D
Entries 39
Mean 0.05516
Std Dev 0.8864
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

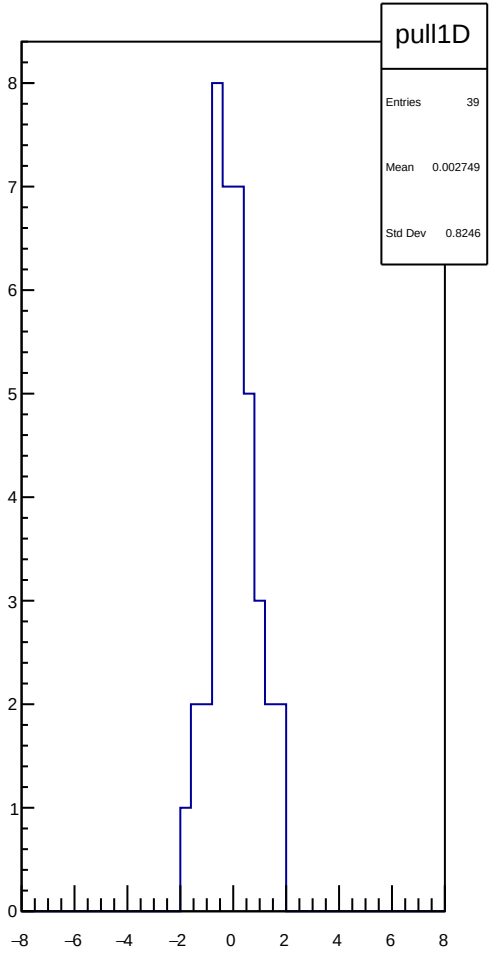

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.99e+05 / 38
p0 7.843e−12 ± 1.049e−14
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

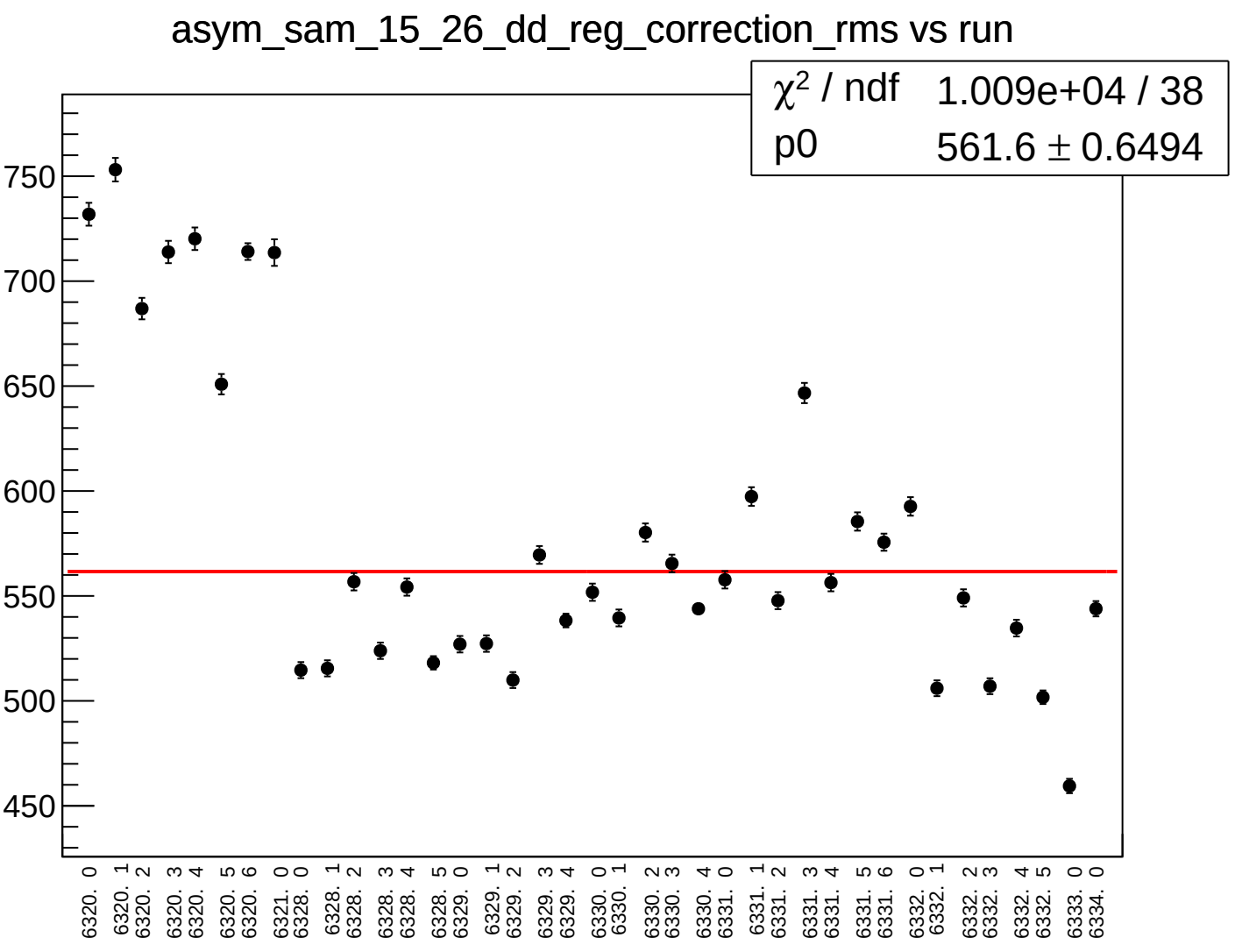

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 43.42 / 38
p0 126.5 ± 106.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.72
Std Dev 0
2
1
0
−1
−2
−3

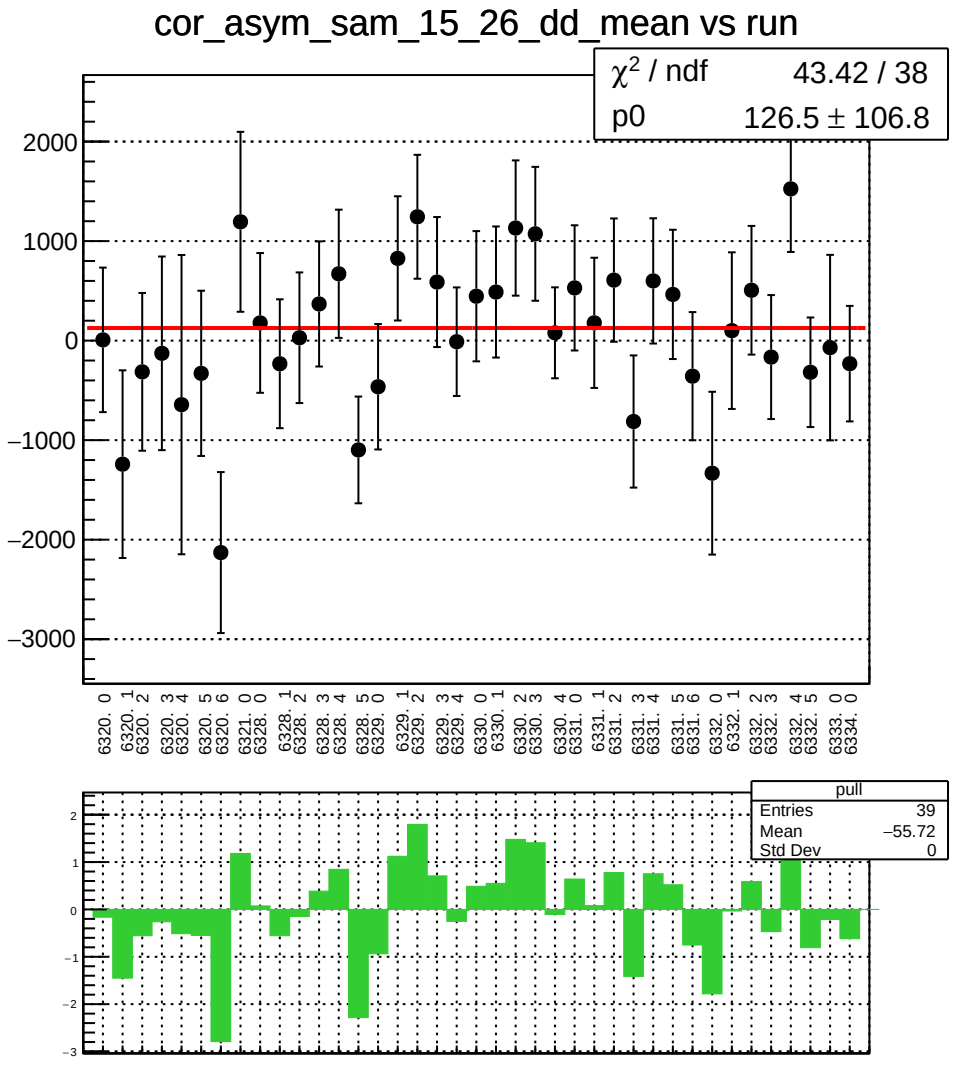

pull1D
Entries 39
Mean −0.02692
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

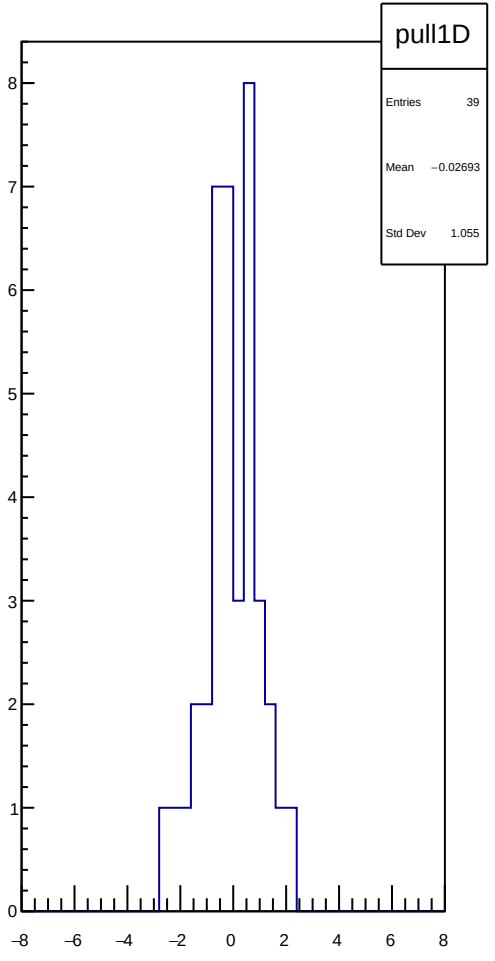

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.802e+04 / 38
p0 64.96 ± 0.07552
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

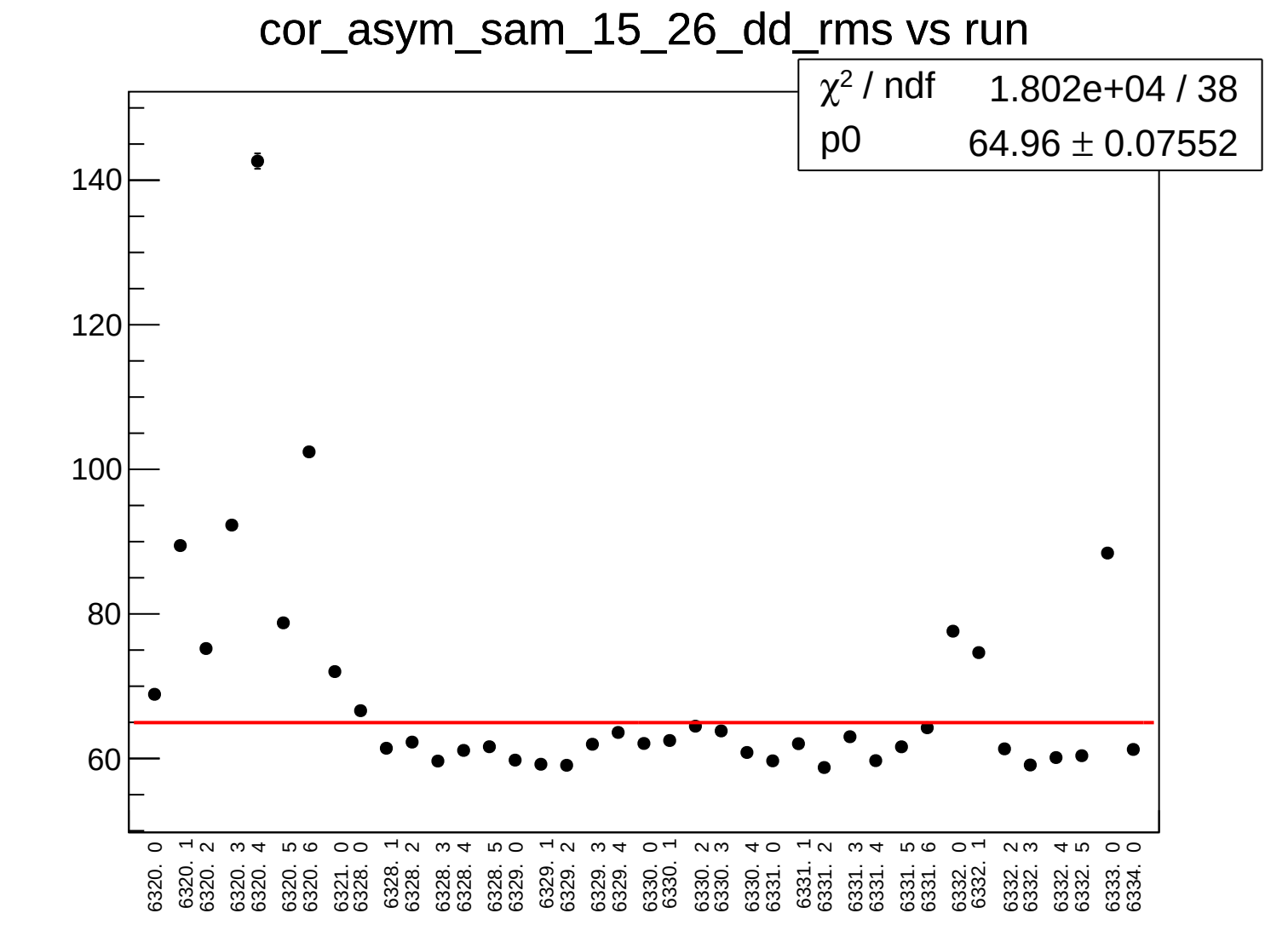

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 26.52 / 38
p0 925.4 ± 918.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 762.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

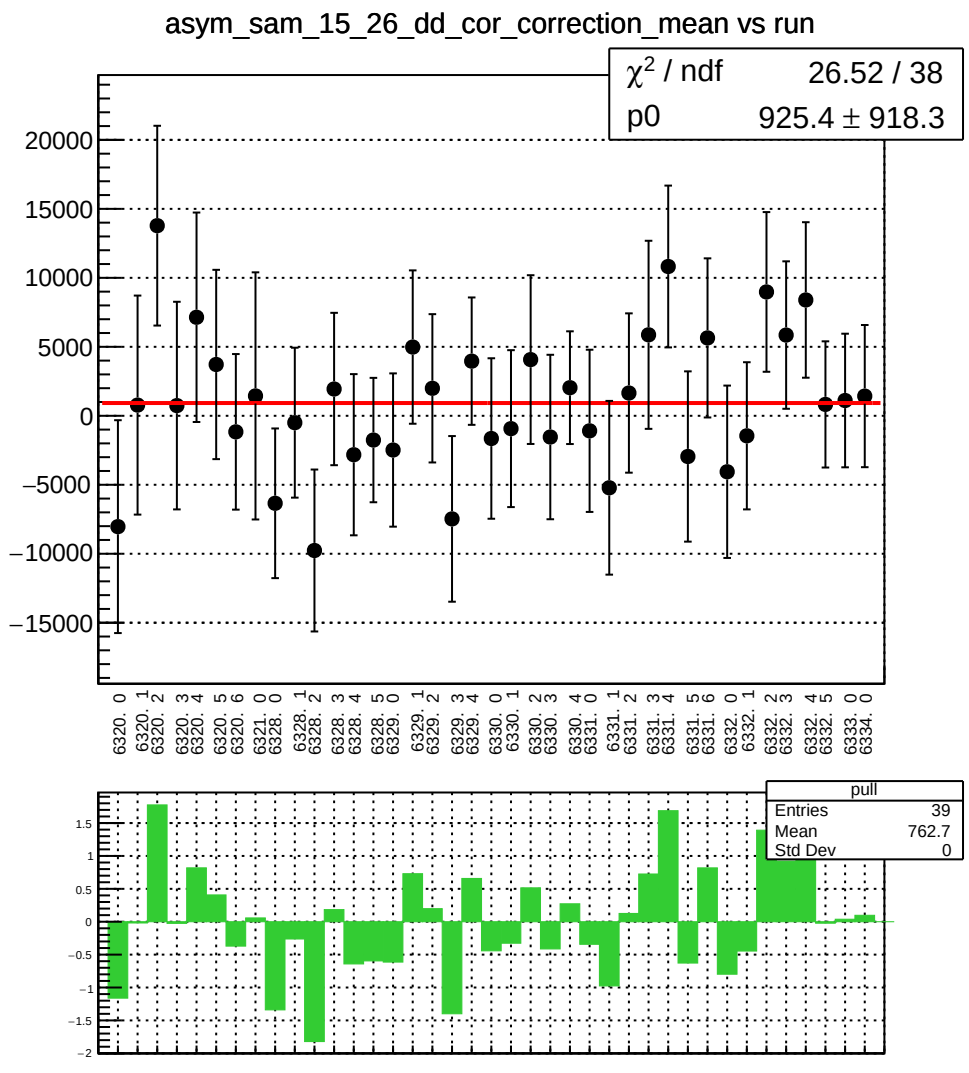

pull1D
Entries 39
Mean 0.002749
Std Dev 0.8246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

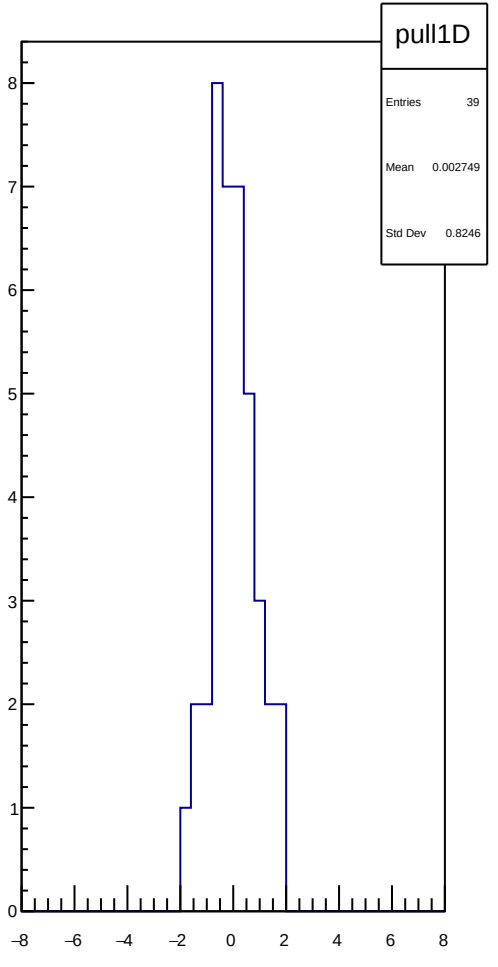

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.009e+04 / 38
p0 561.6 ± 0.6494
750
700
650
600
550
500
450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

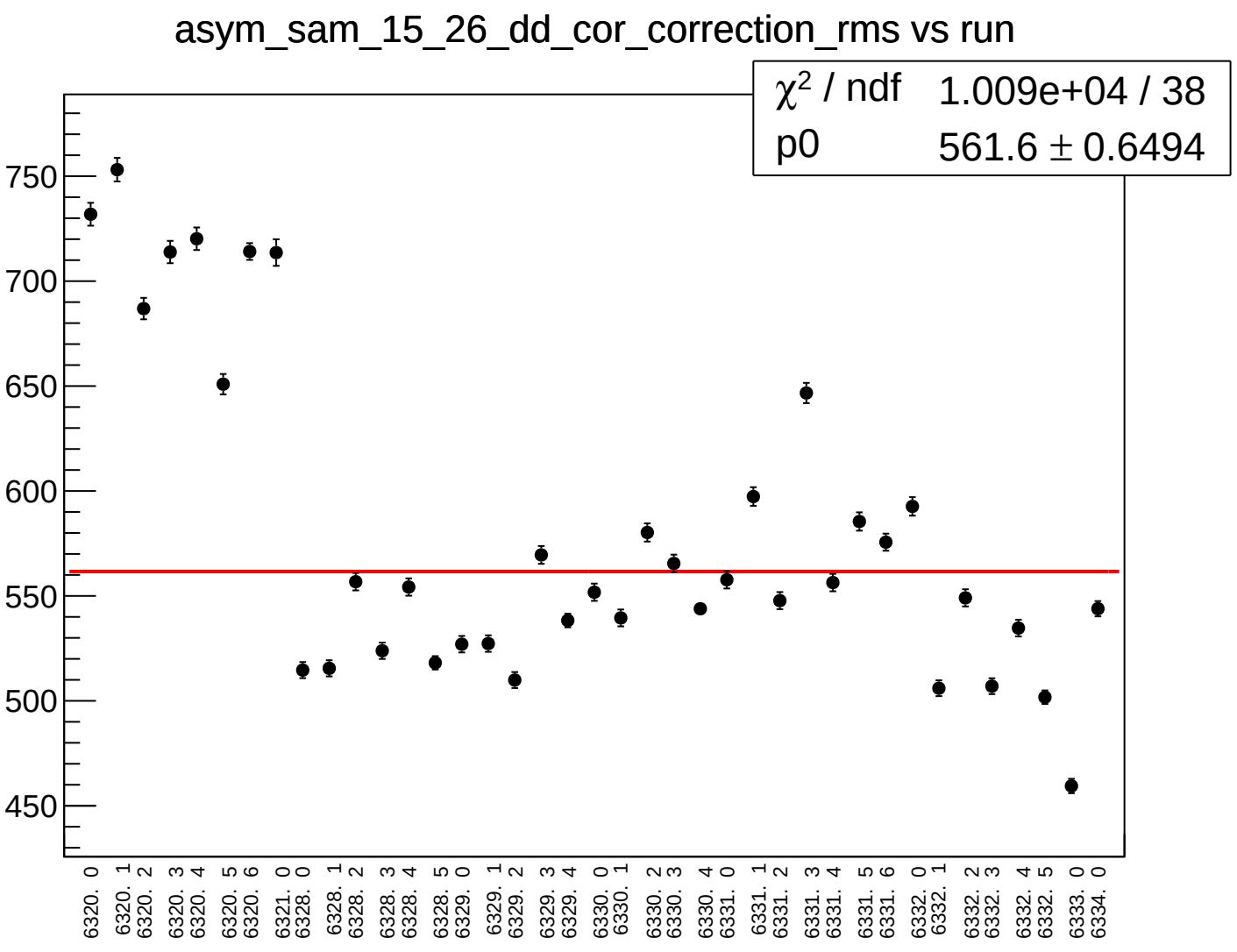

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 43.42 / 38
p0 126.5 ± 106.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.72
Std Dev 0
2
1
0
−1
−2
−3

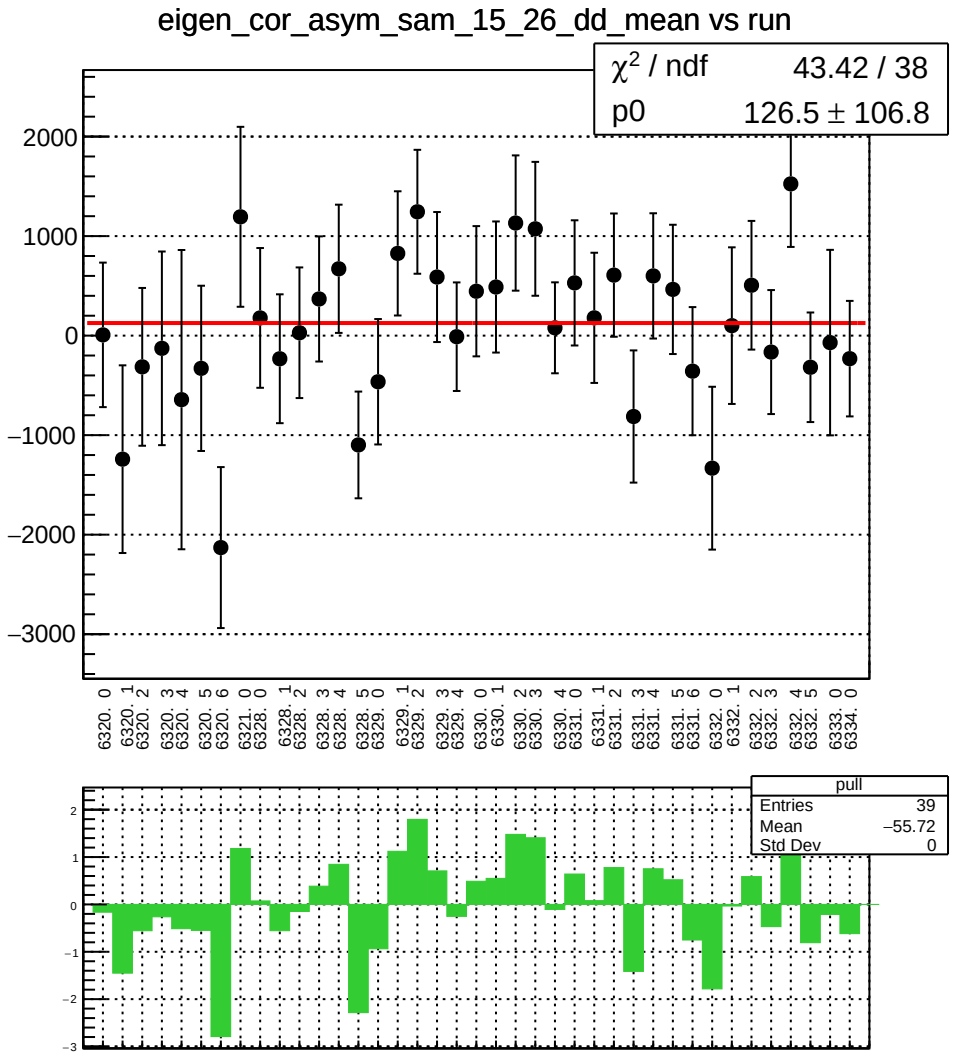

pull1D
Entries 39
Mean −0.02693
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

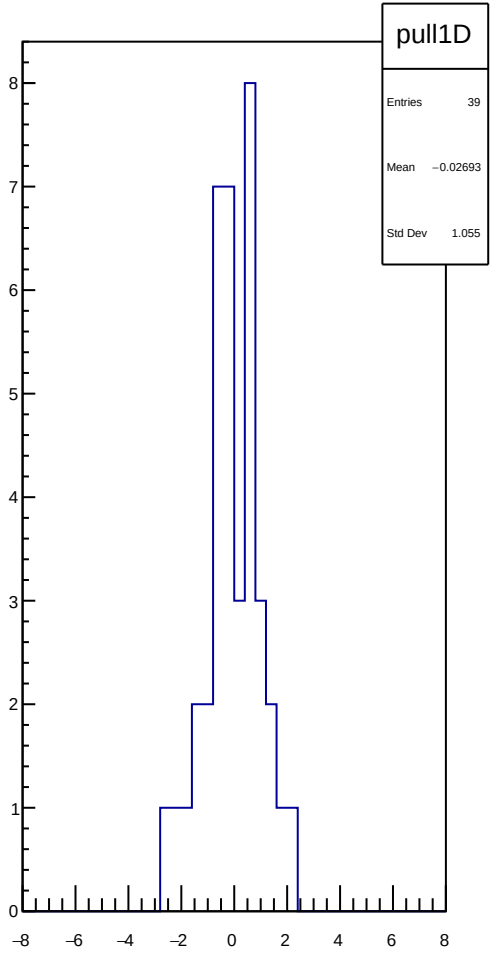

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.802e+04 / 38
p0 64.96 ± 0.07552
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

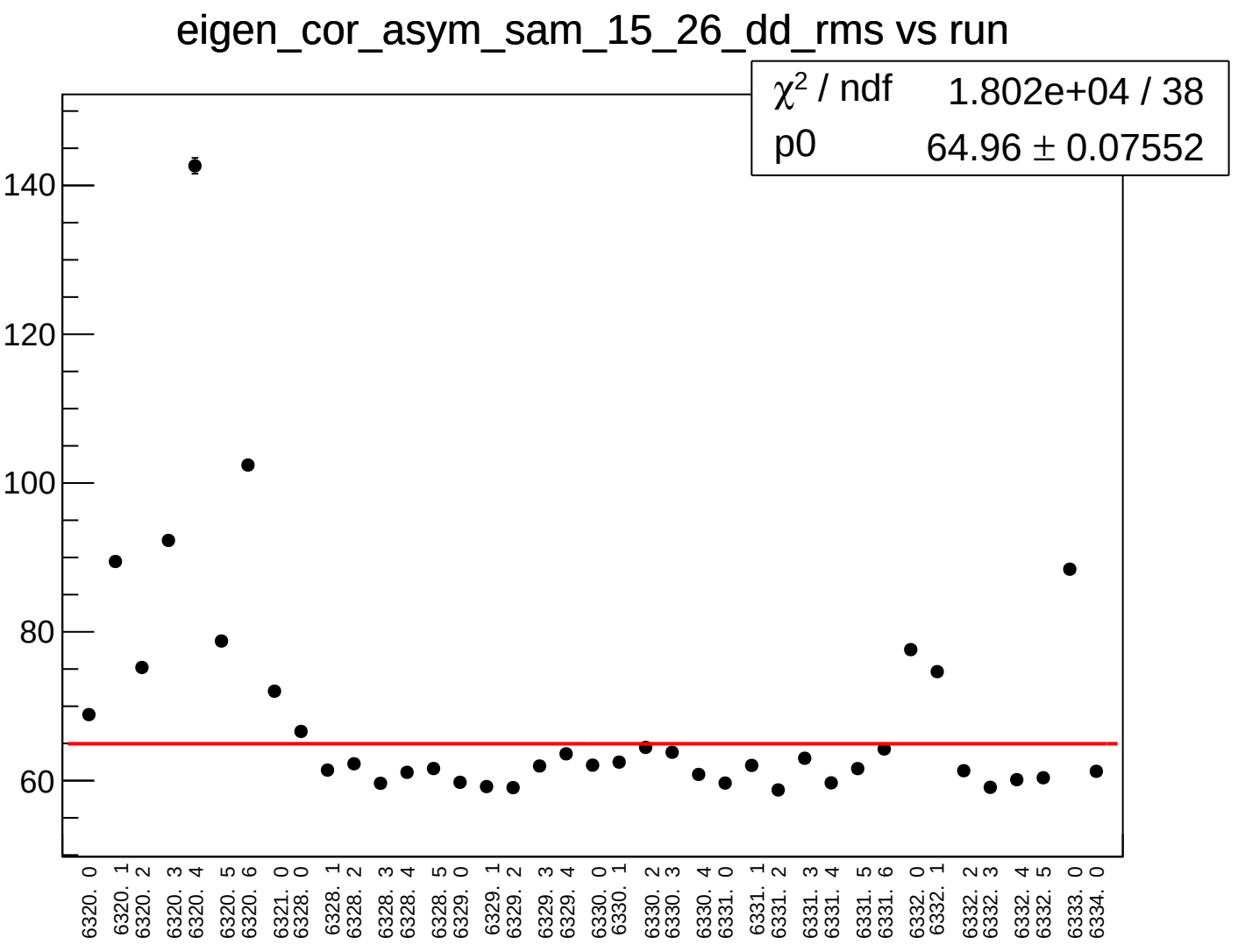

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 26.52 / 38
p0 925.4 ± 918.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 762.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

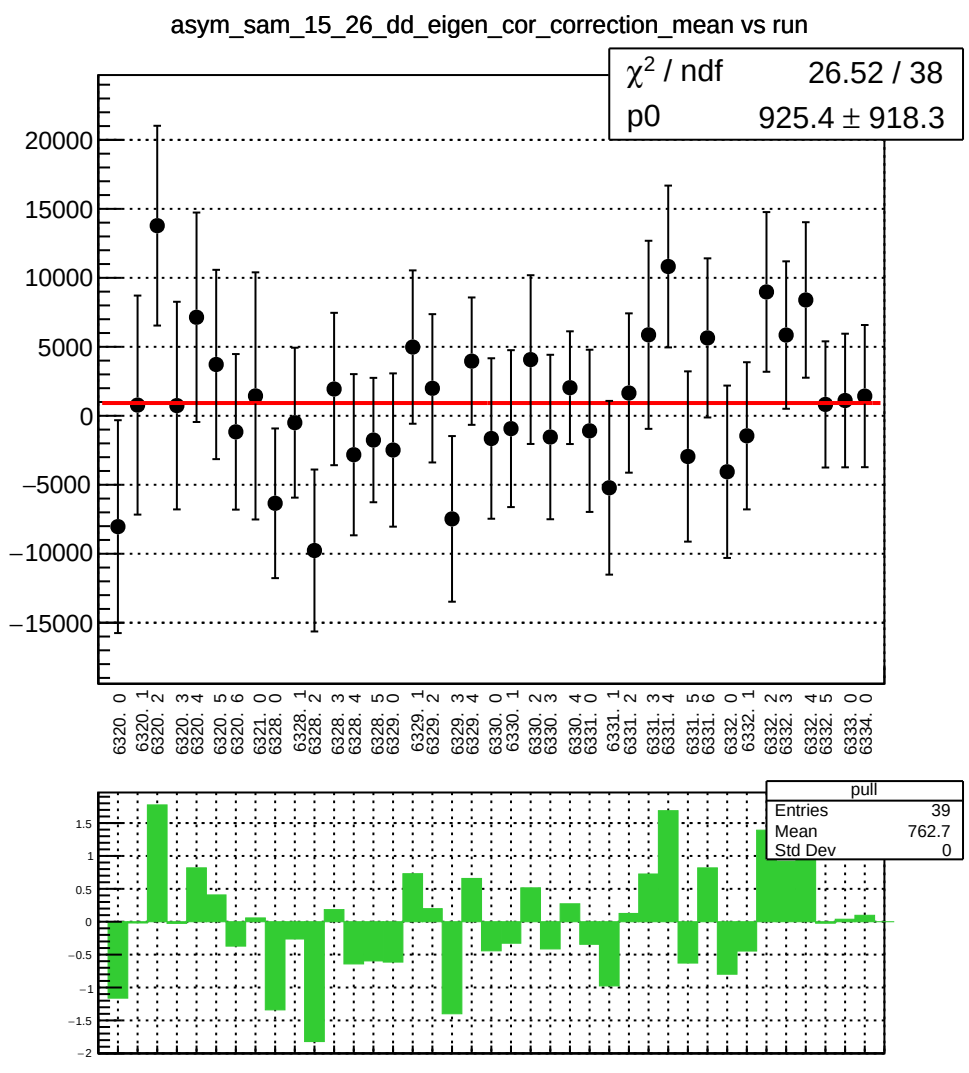

pull1D
Entries 39
Mean 0.002749
Std Dev 0.8246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

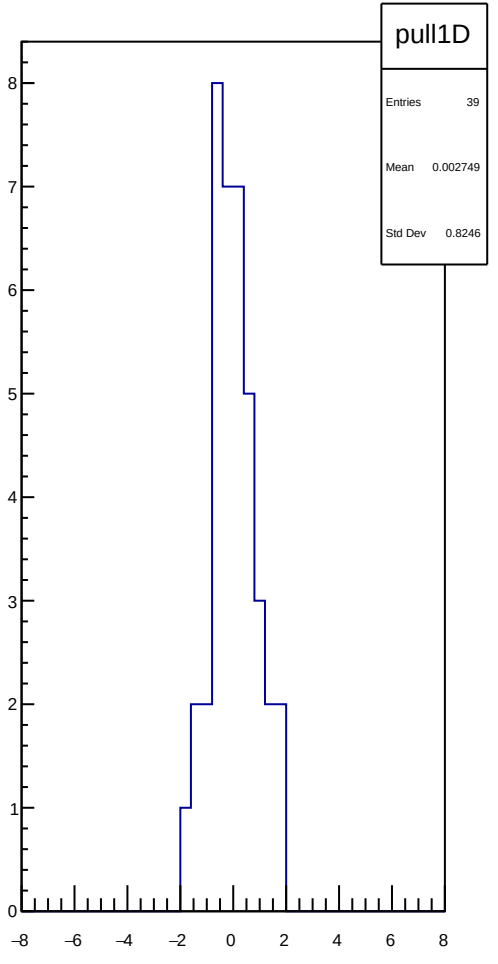

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 38
p0 561.6 ± 0.6494
750
700
650
600
550
500
450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

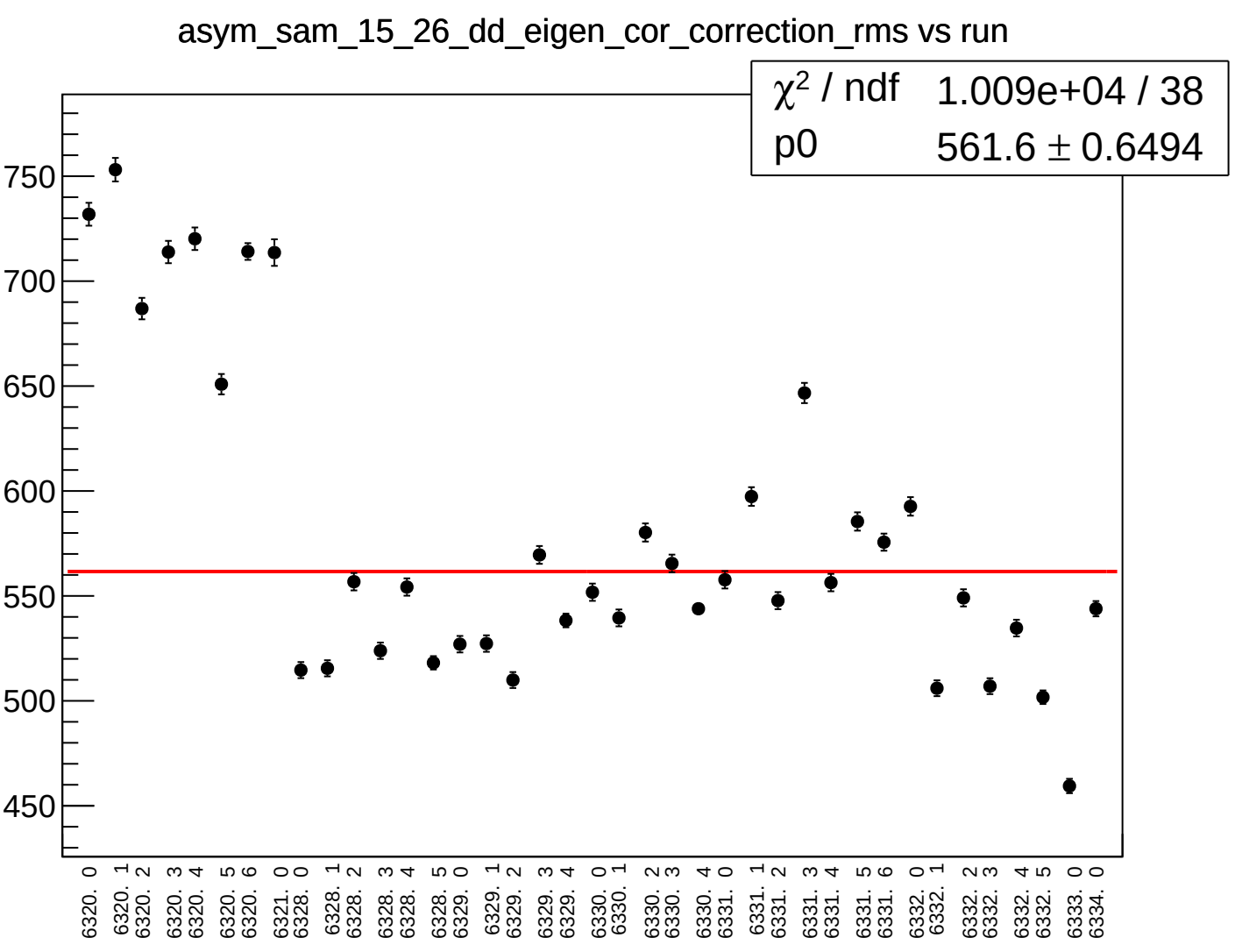

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 43.42 / 38
p0 126.5 ± 106.8
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.72
Std Dev 0
2
1
0
−1
−2
−3

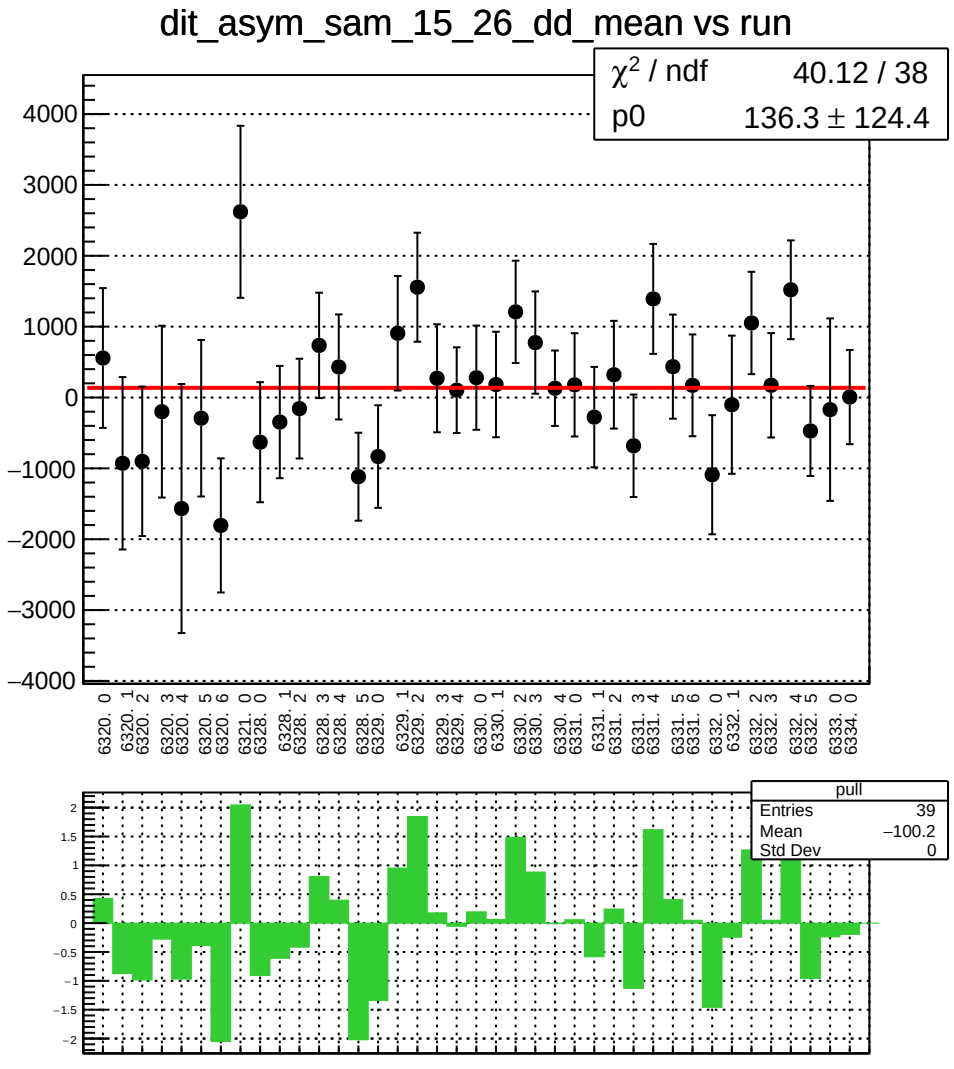

pull1D
Entries 39
Mean −0.02693
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

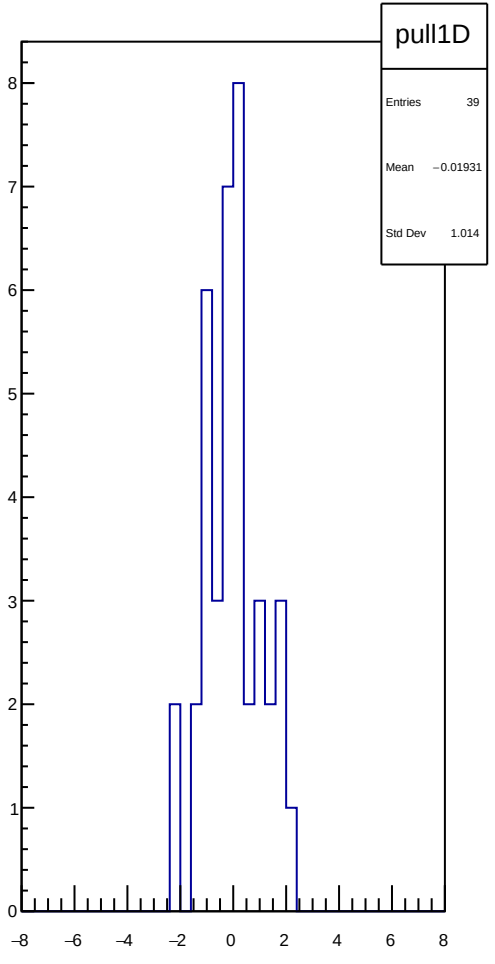

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.802e+04 / 38
p0 64.96 ± 0.07552
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

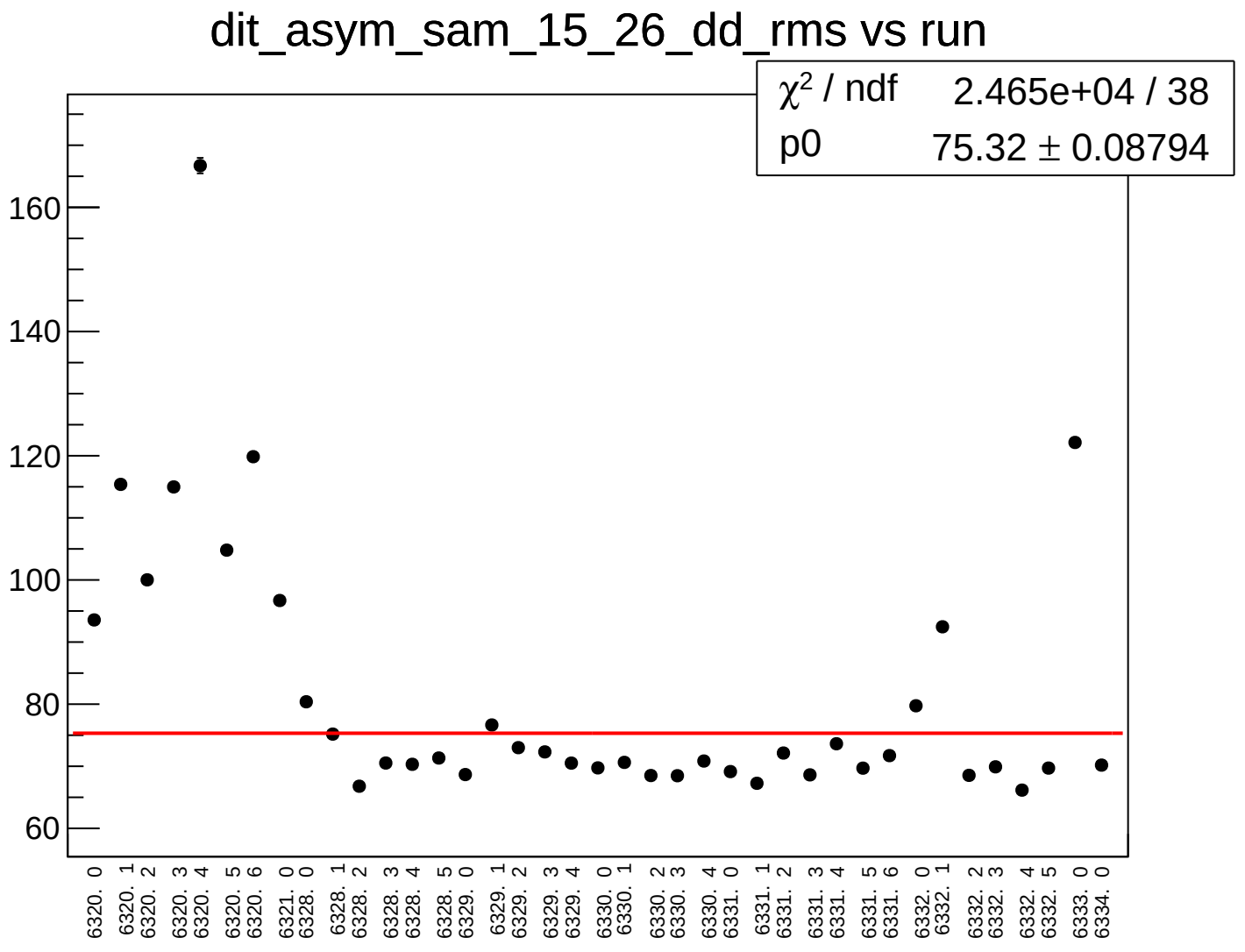

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.52 / 38
p0 925.4 ± 918.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 762.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

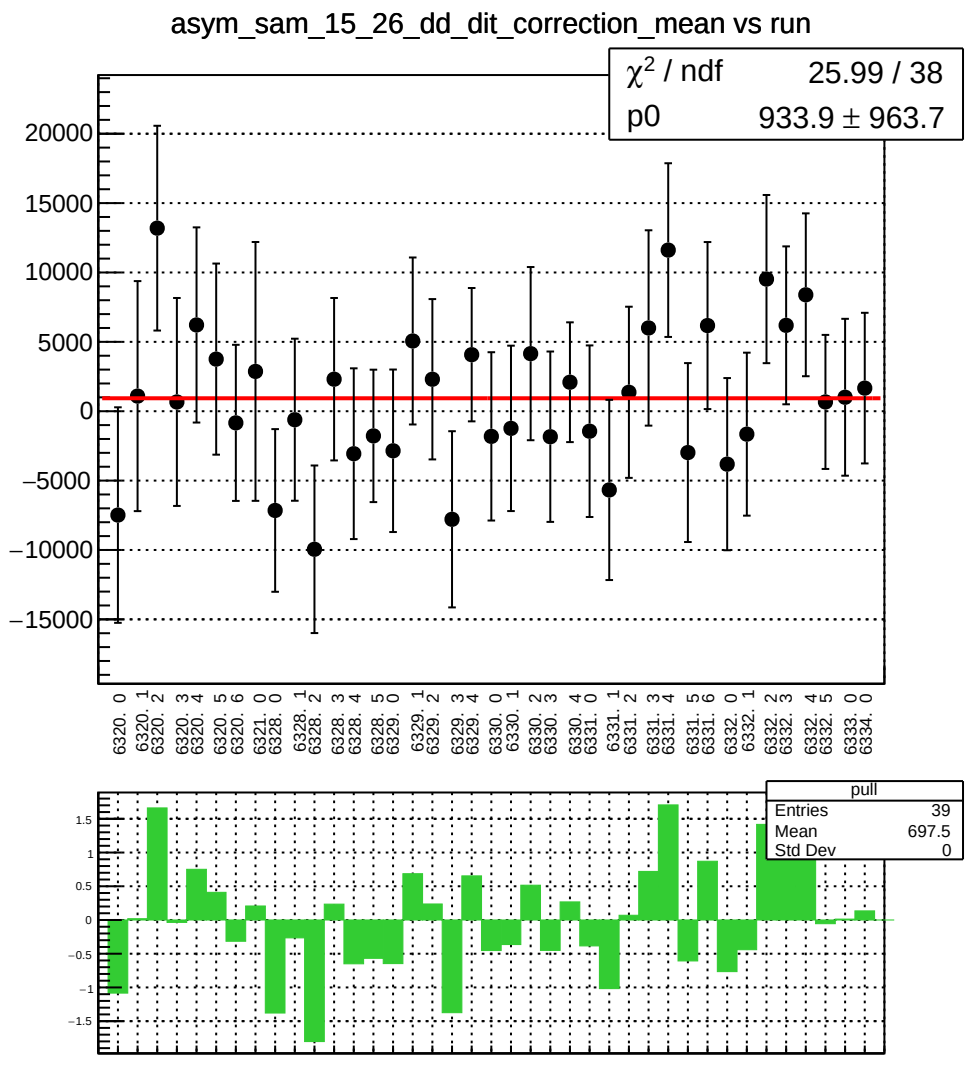

pull1D
Entries 39
Mean 0.002749
Std Dev 0.8246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

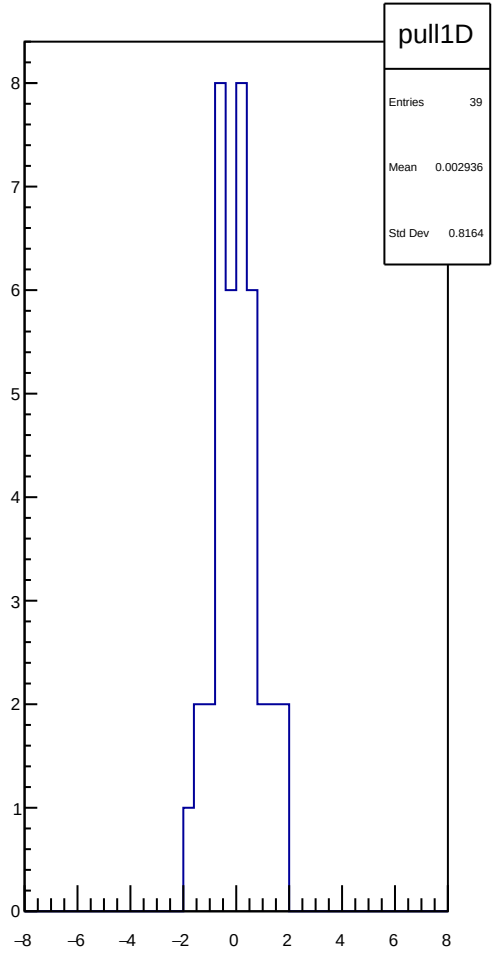

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 38
p0 561.6 ± 0.6494
750
700
650
600
550
500
450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

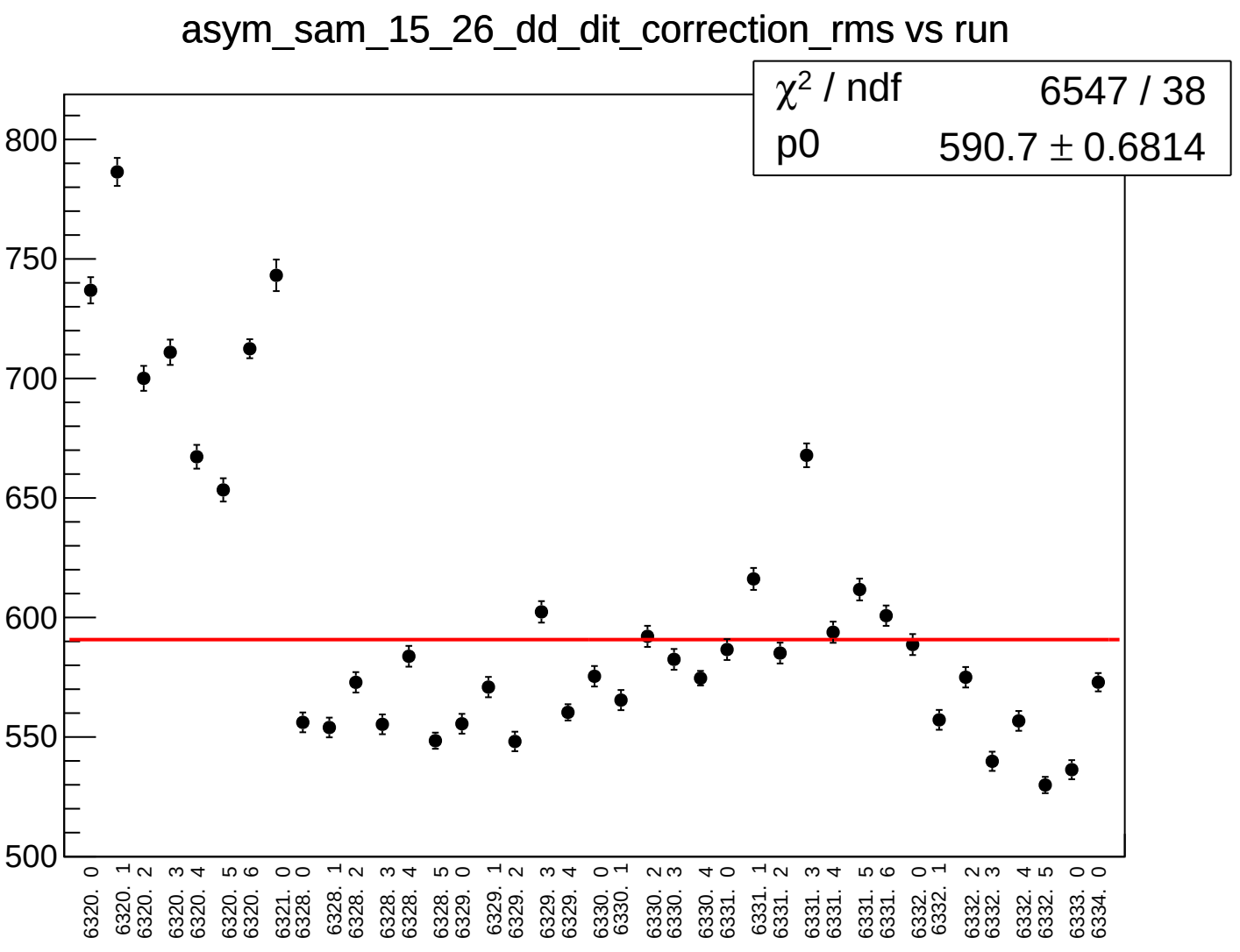

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 40.12 / 38
p0 136.3 ± 124.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −100.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

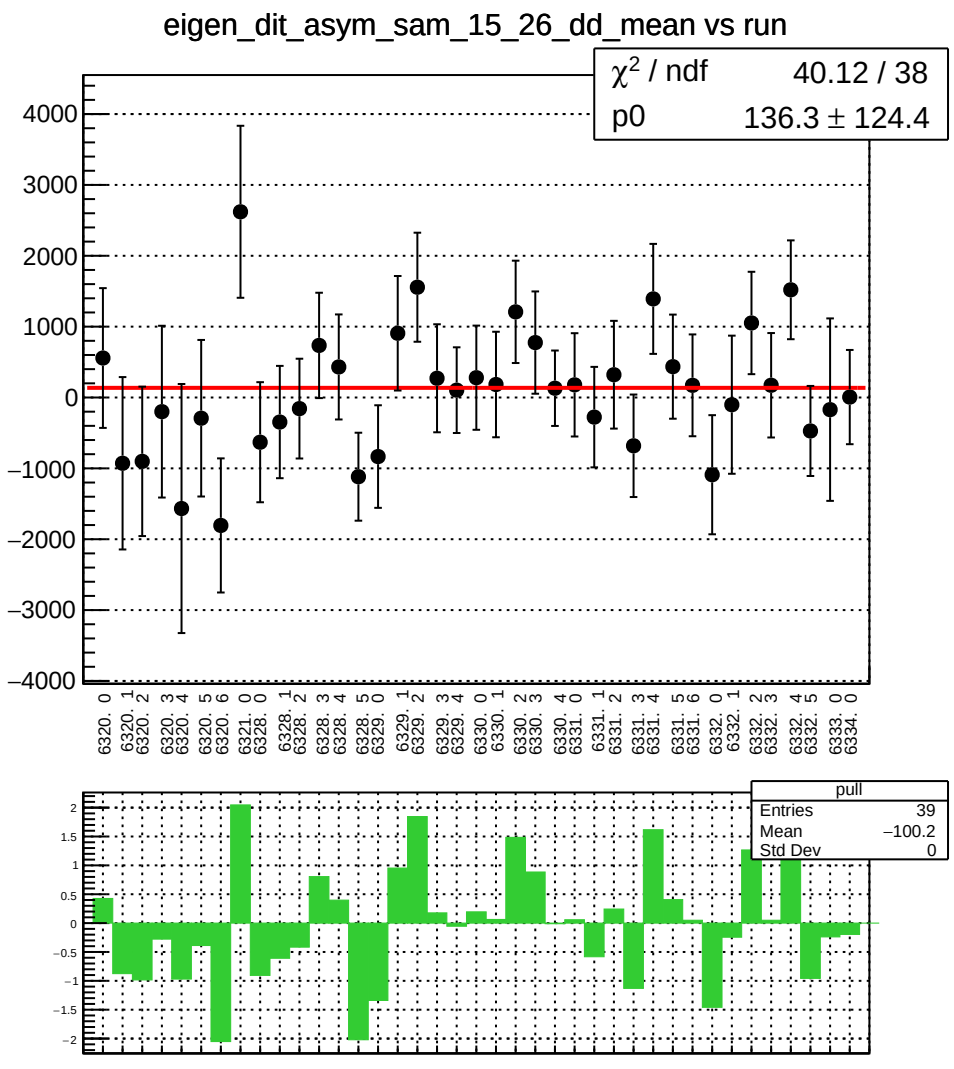

pull1D
Entries 39
Mean −0.01931
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

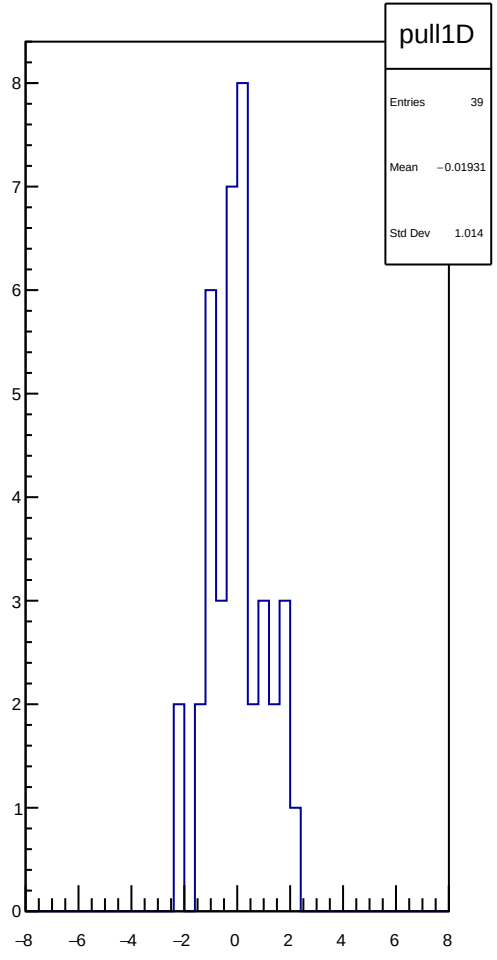

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.465e+04 / 38
p0 75.32 ± 0.08794
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

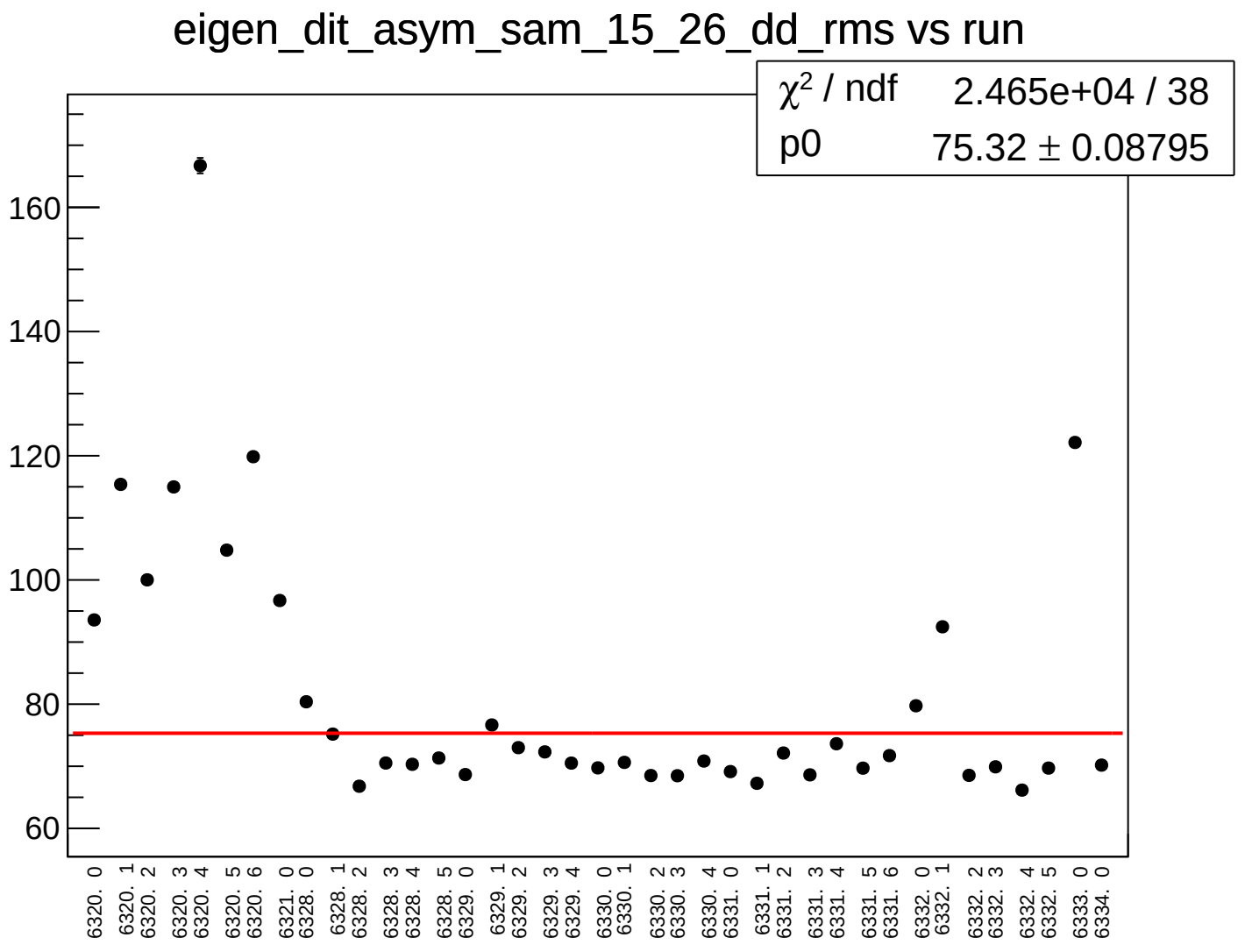

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 25.99 / 38
p0 933.9 ± 963.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 697.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

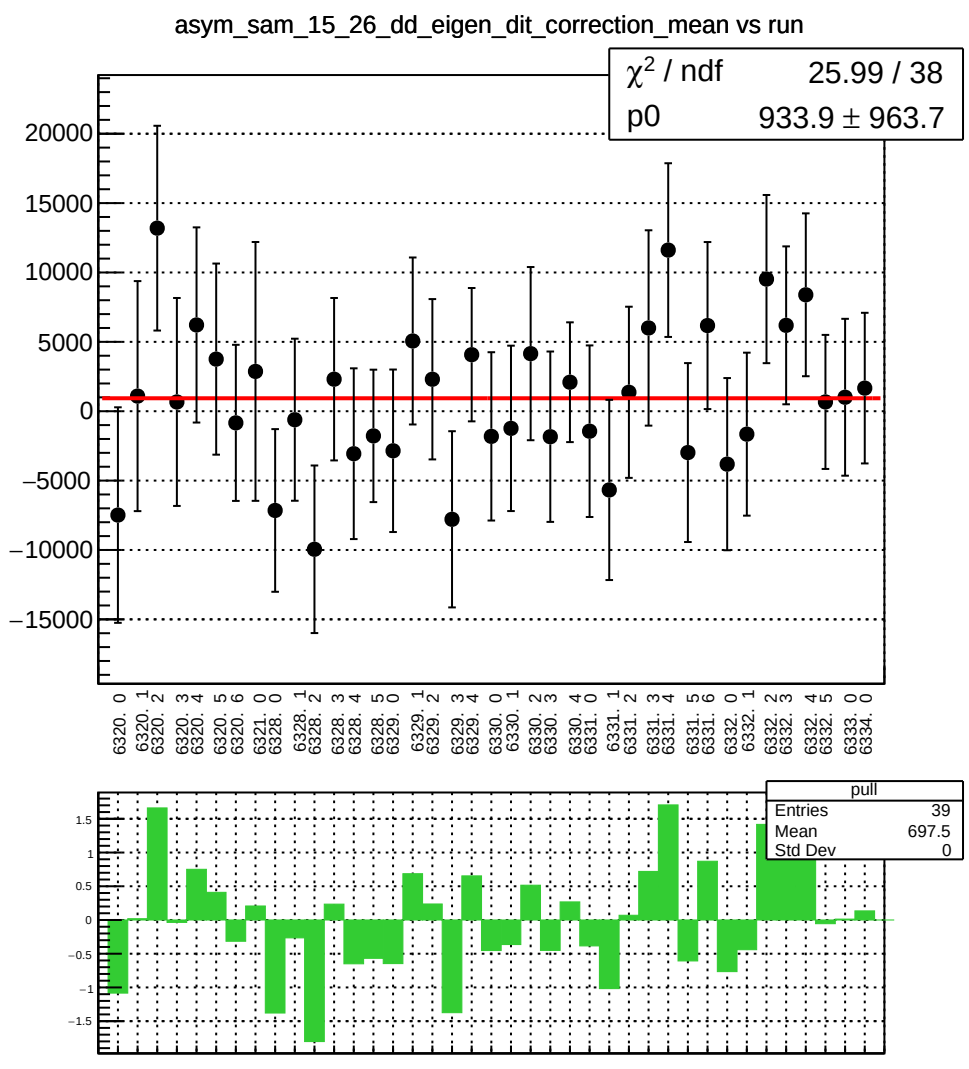

pull1D
Entries 39
Mean 0.002936
Std Dev 0.8164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

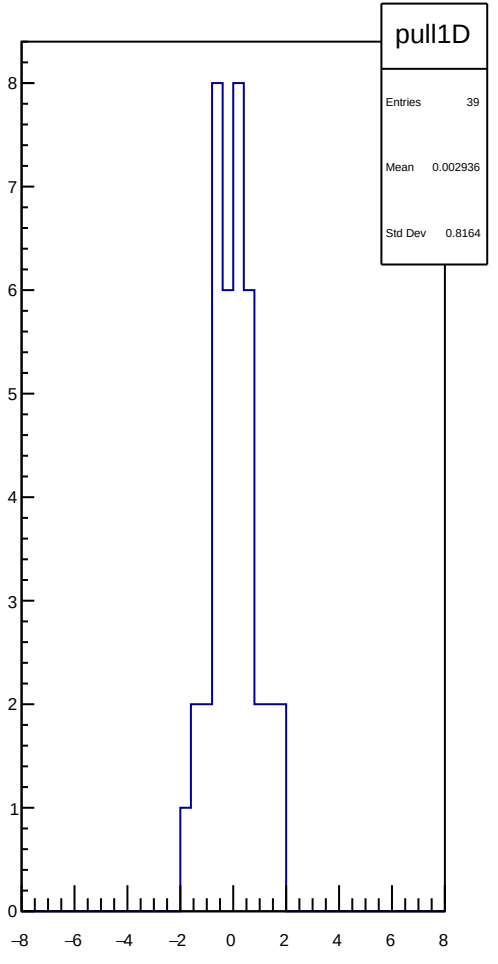

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6547 / 38
p0 590.7 ± 0.6814
800
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

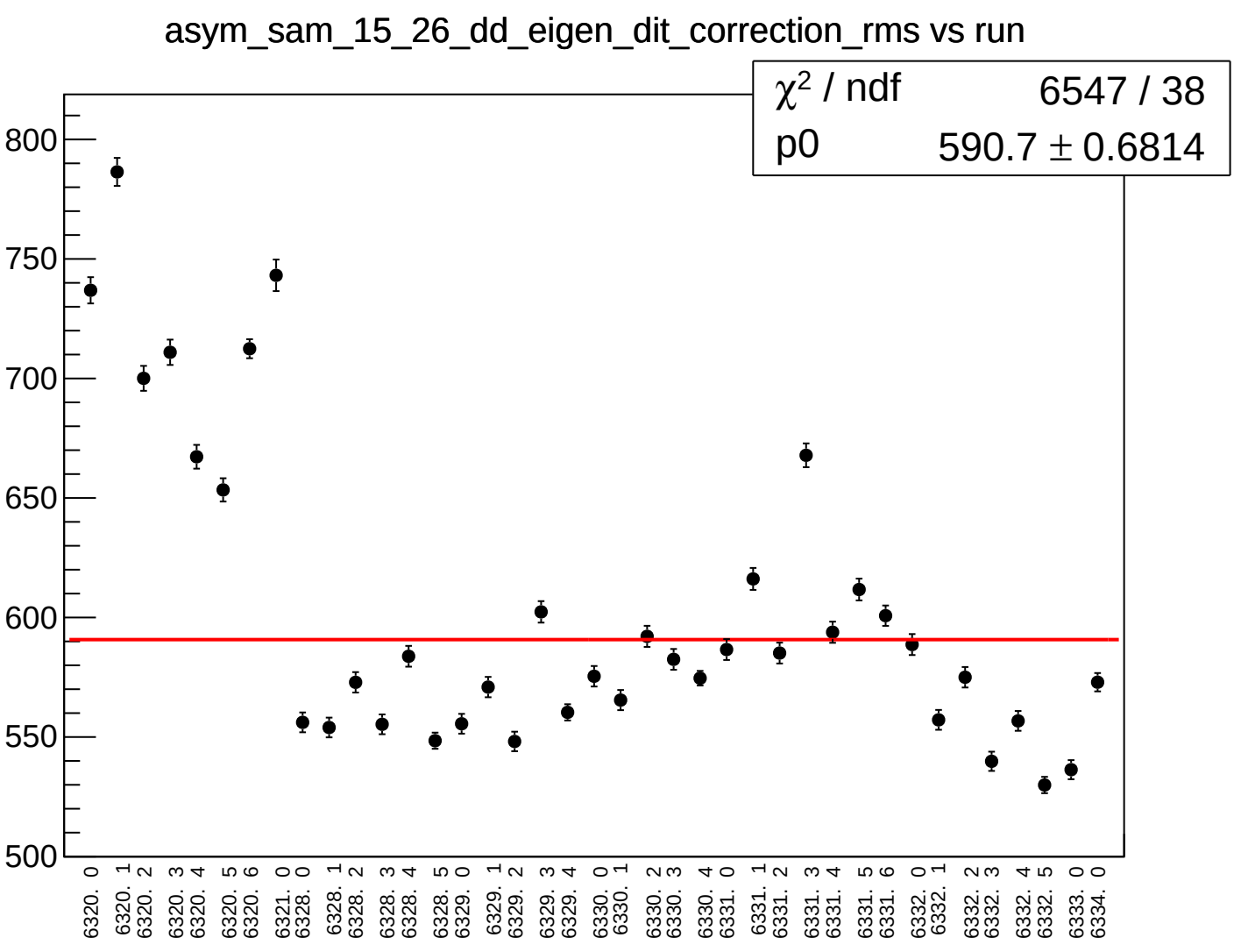

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 40.12 / 38
p0 136.3 ± 124.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −100.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

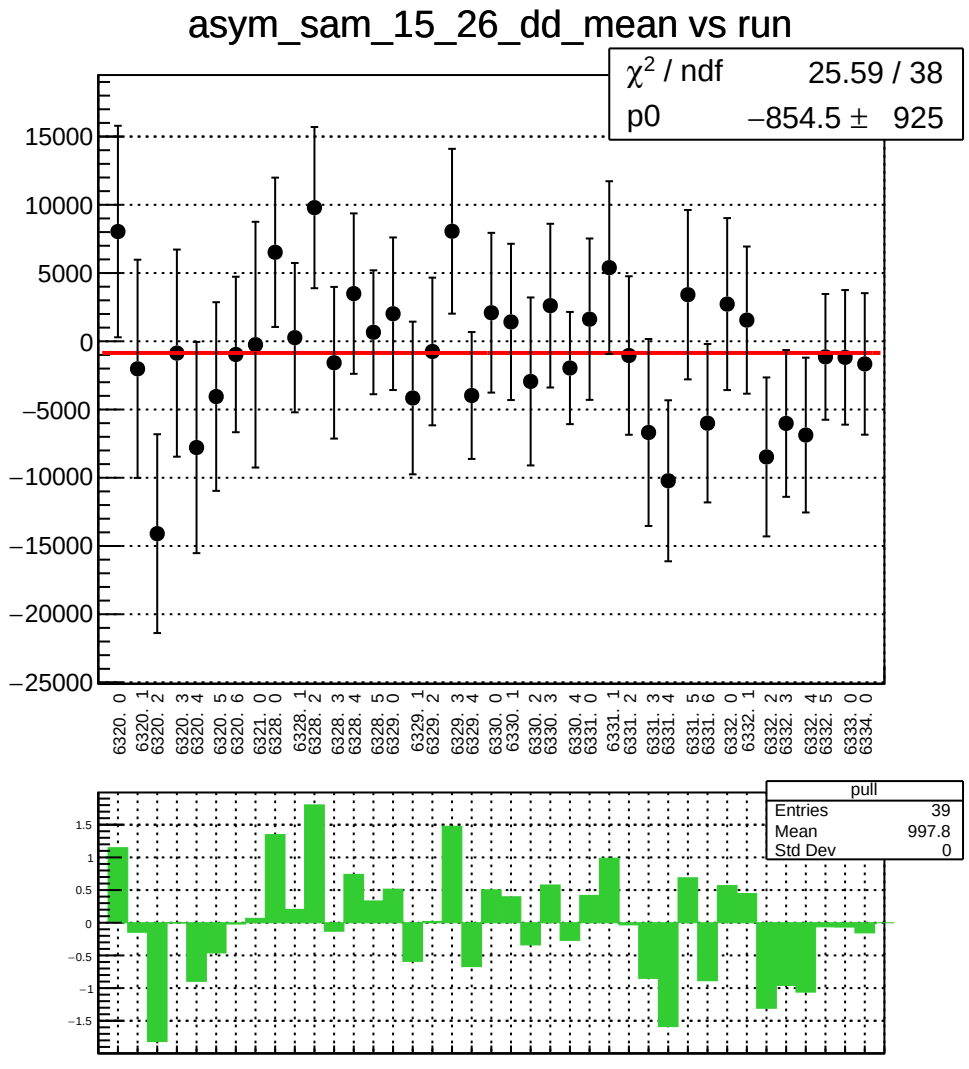

pull1D
Entries 39
Mean −0.01931
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

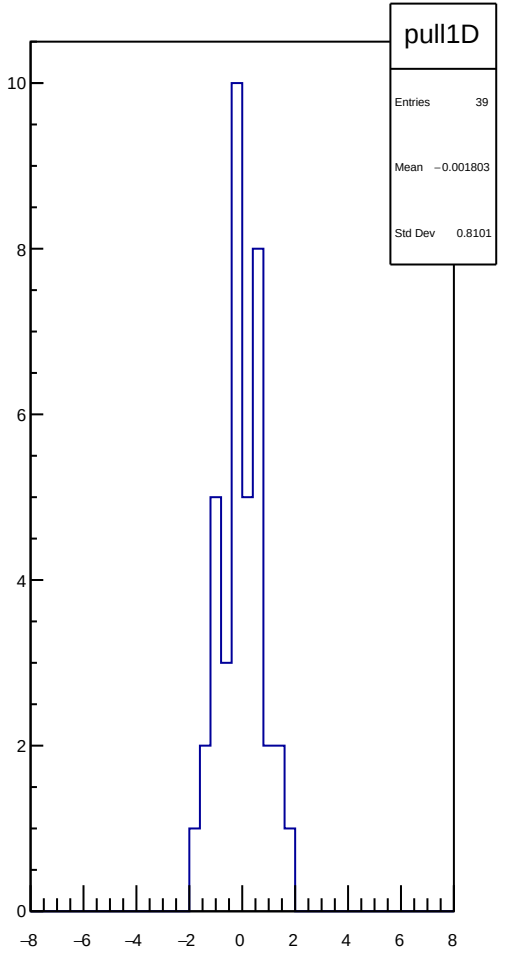

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.465e+04 / 38
p0 75.32 ± 0.08795
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

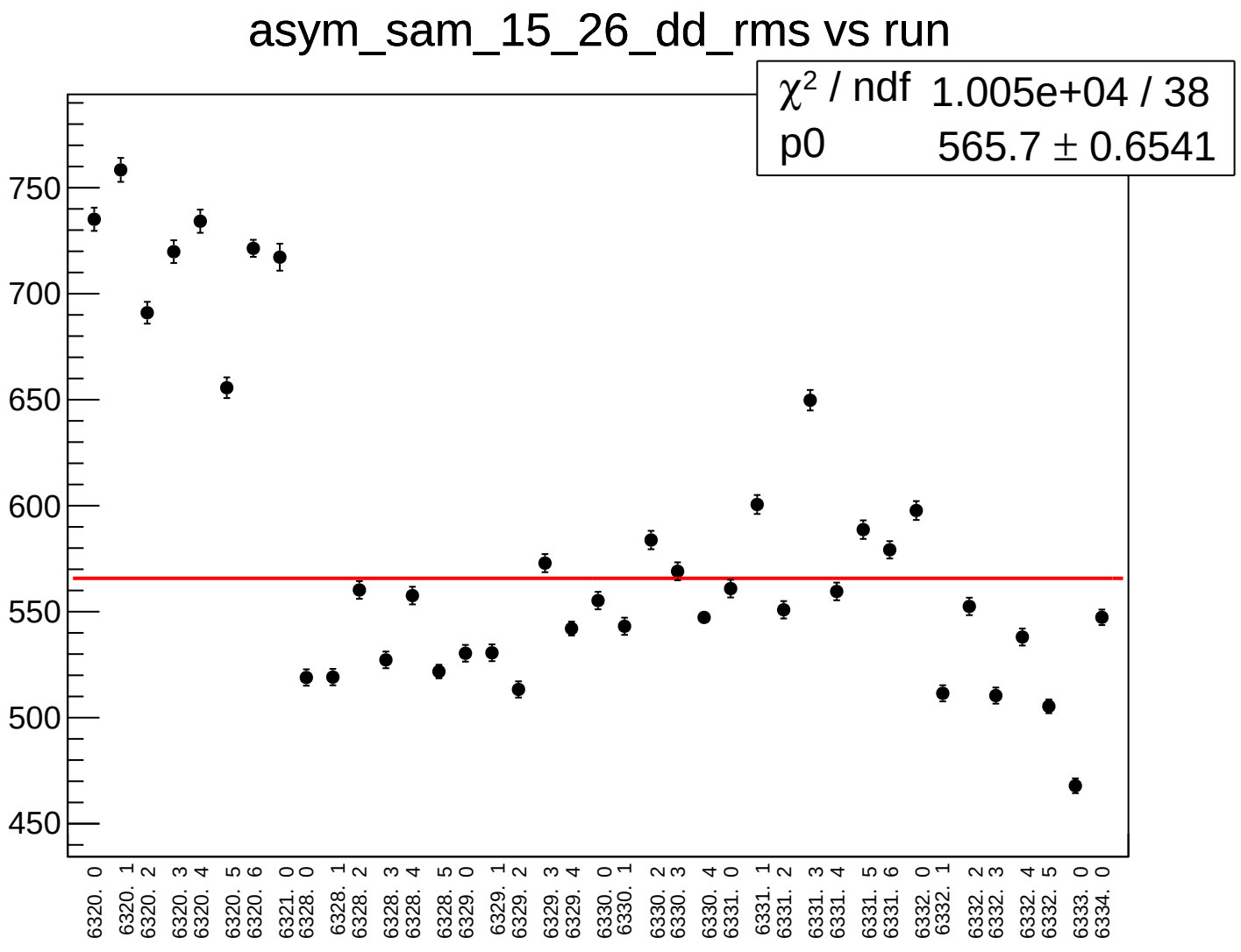

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.99 / 38
p0 933.9 ± 963.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 697.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

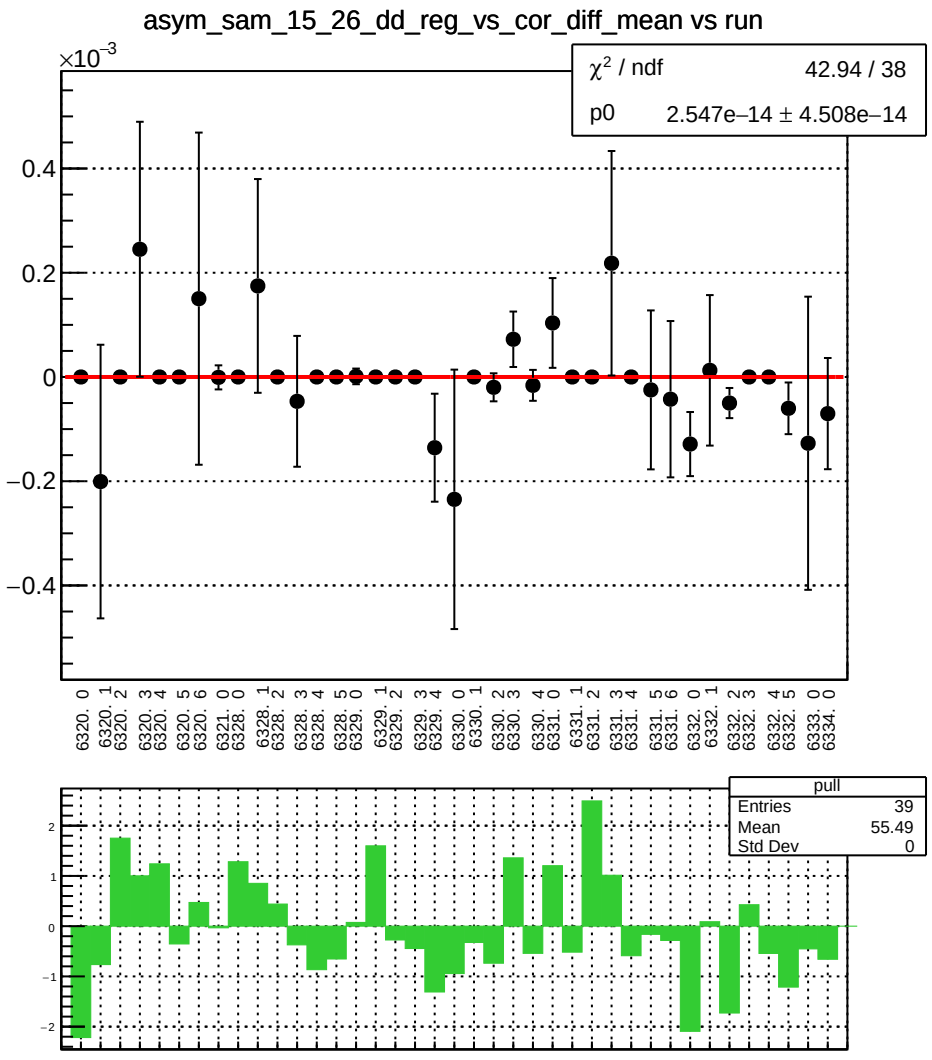

pull1D
Entries 39
Mean 0.002936
Std Dev 0.8164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

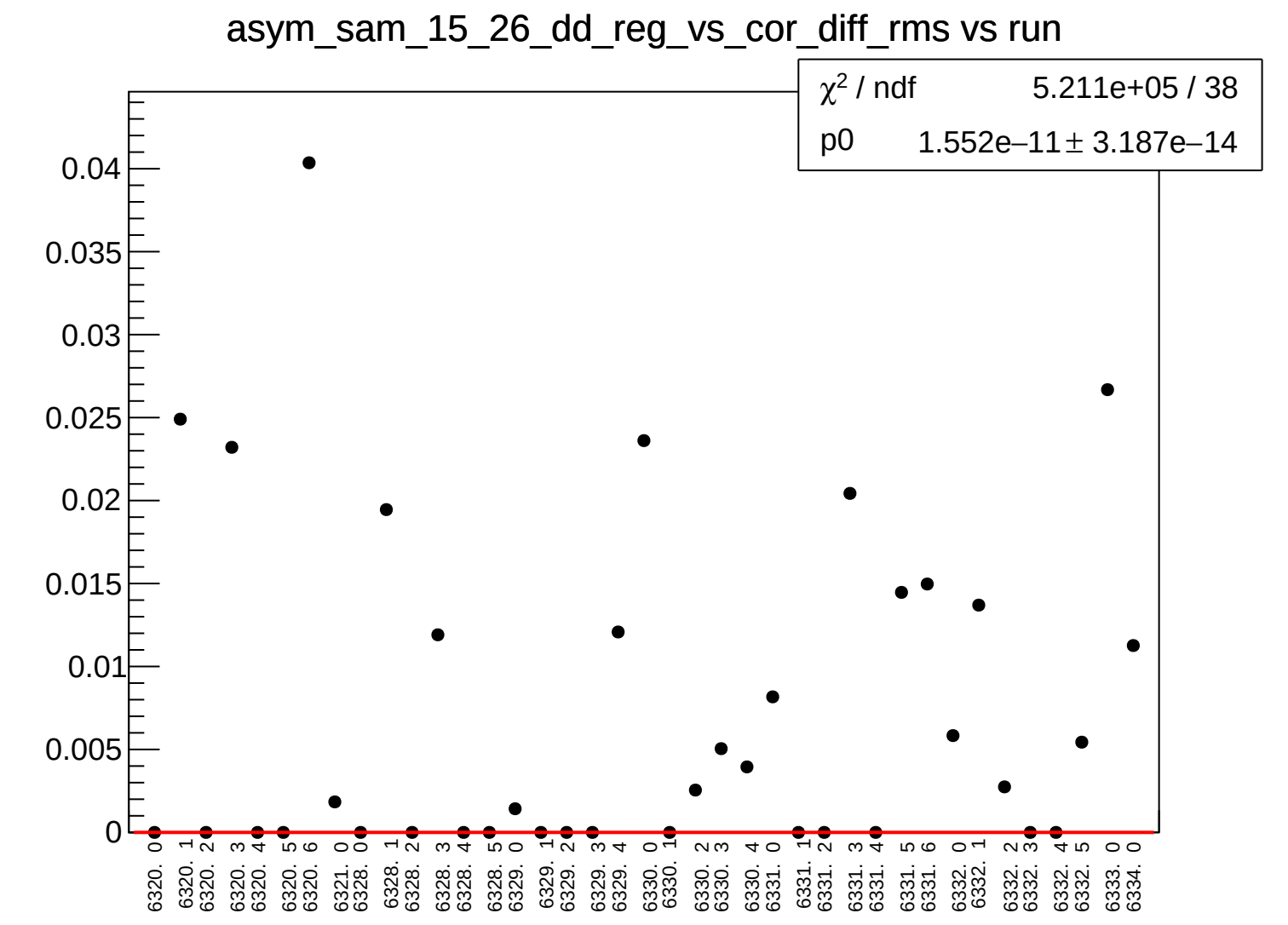

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6547 / 38
p0 590.7 ± 0.6814
800
750
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

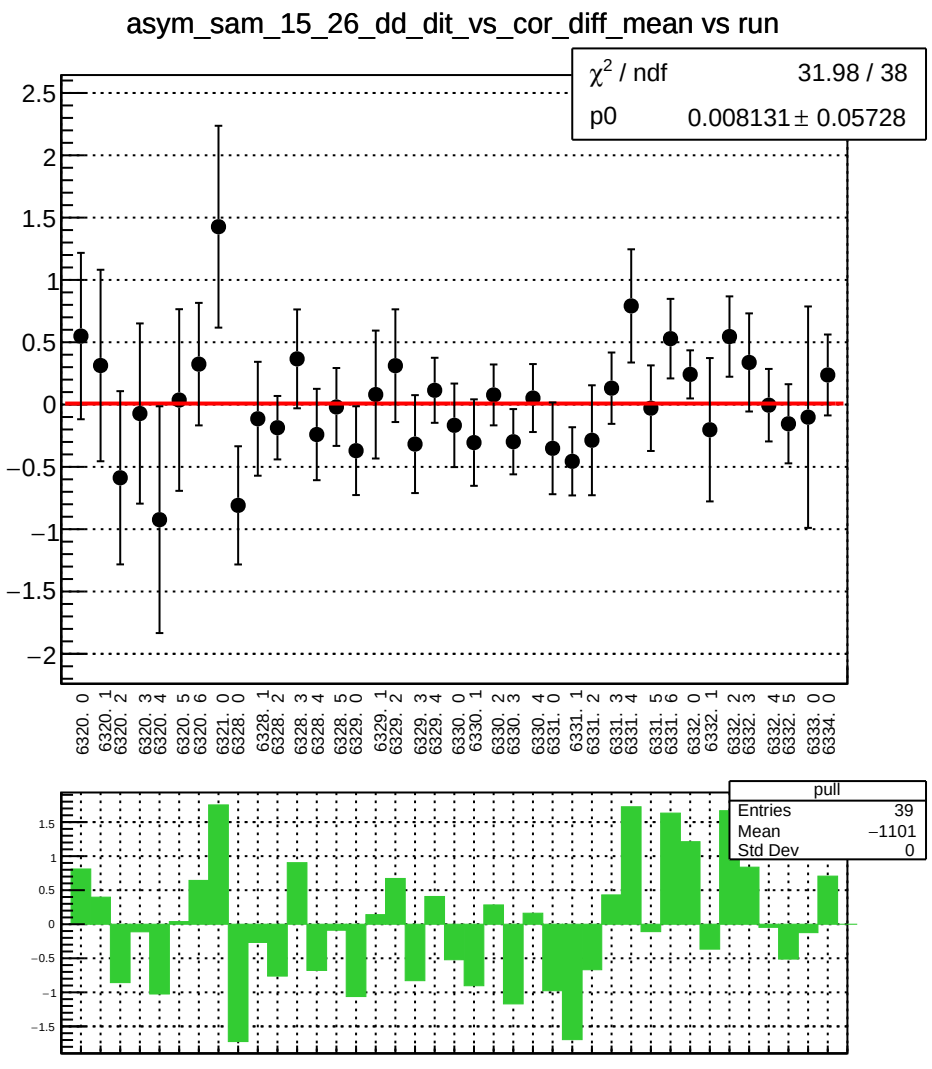

asym_sam_15_26_dd_mean vs run
χ² / ndf 25.59 / 38
p0 −854.5 ± 925
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 997.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

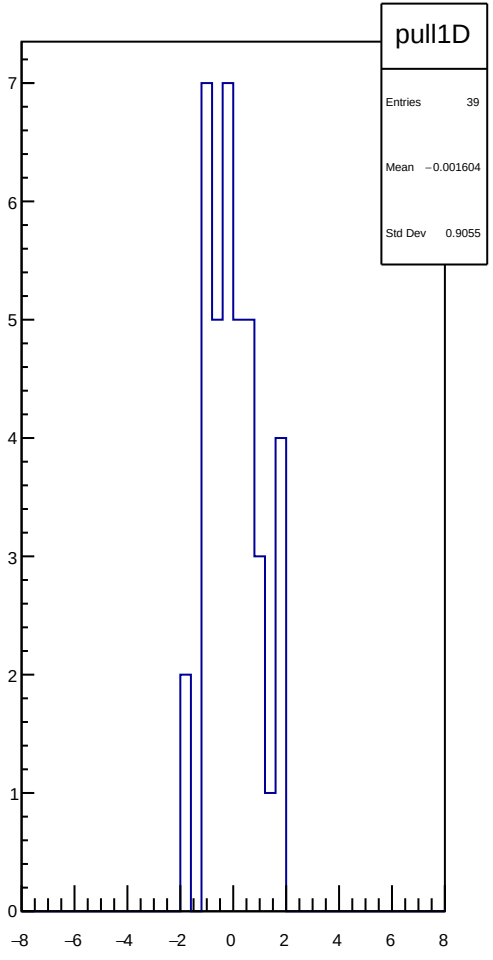

pull1D
Entries 39
Mean −0.001803
Std Dev 0.8101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

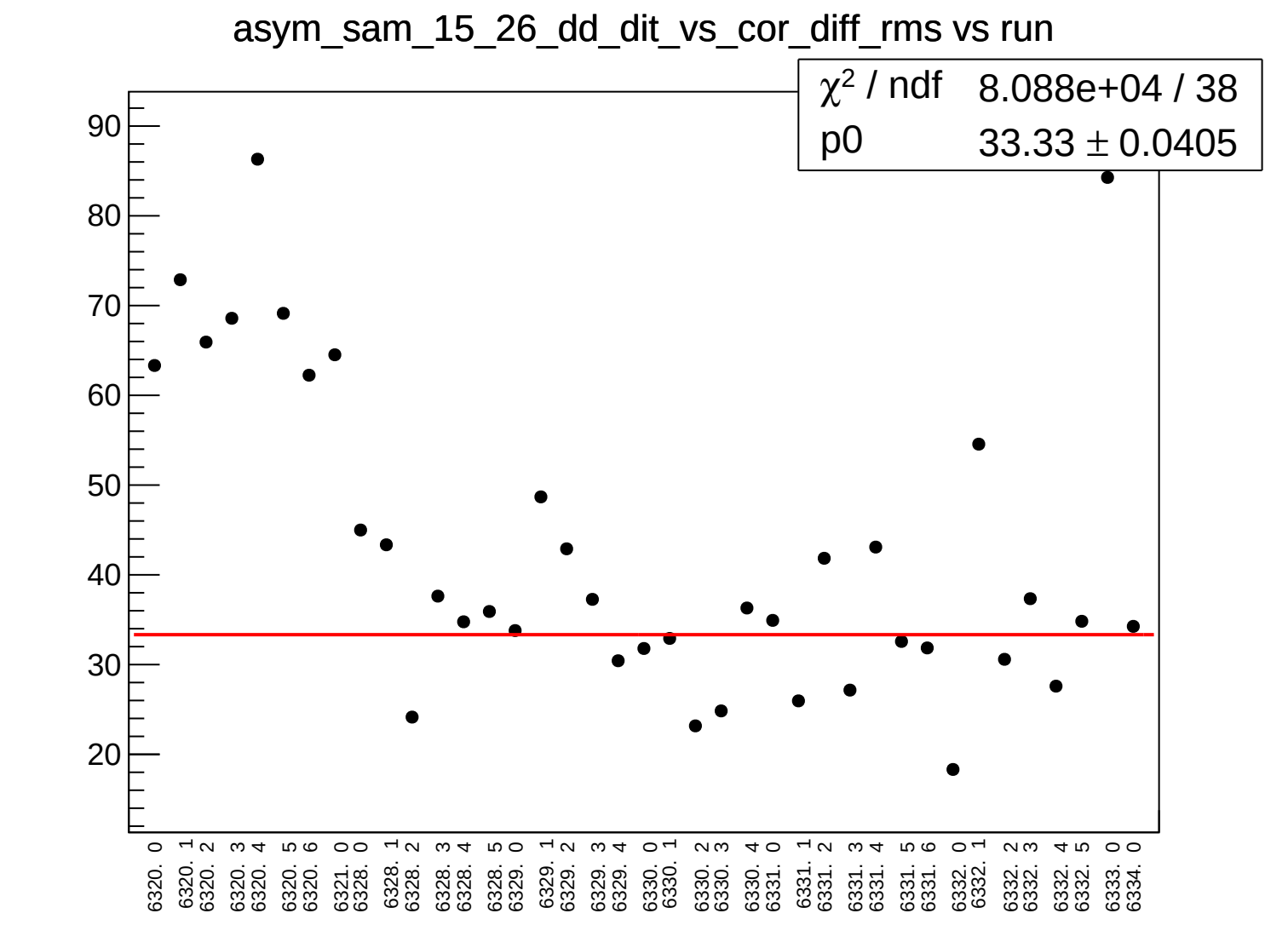

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.005e+04 / 38
p0 565.7 ± 0.6541
750
700
650
600
550
500
450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

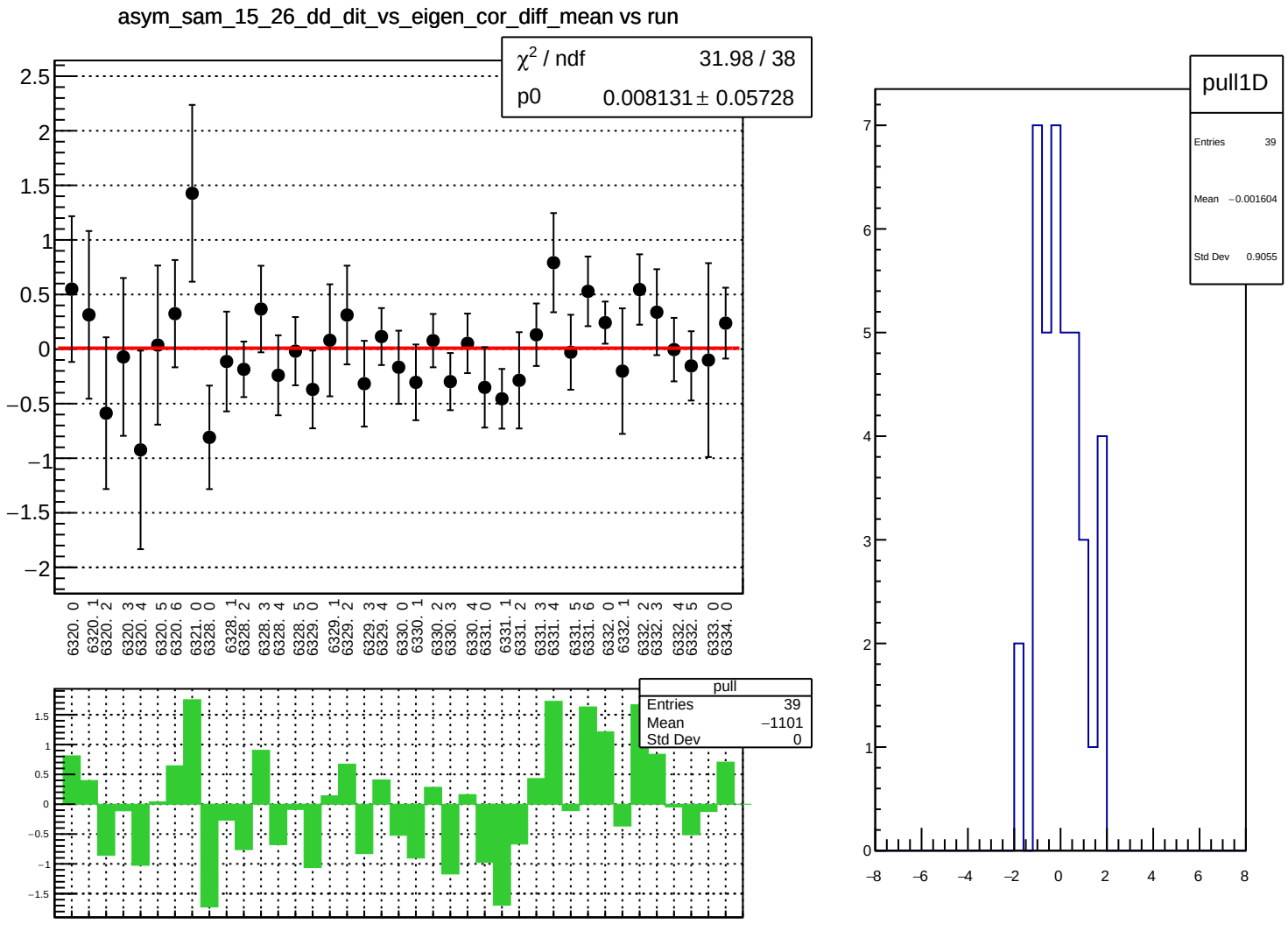

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 42.94 / 38
p0 2.547e−14 ± 4.508e−14
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07114
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

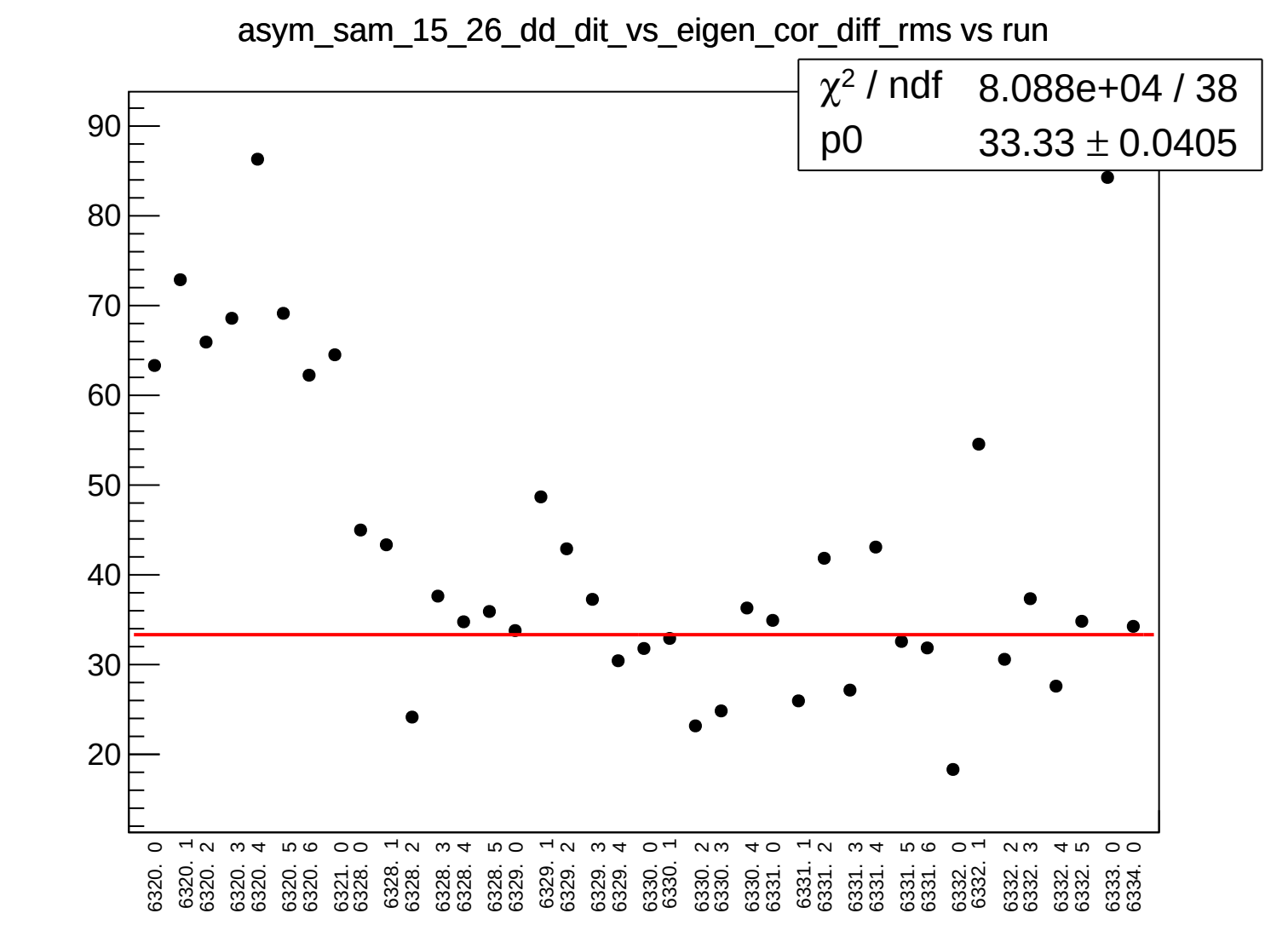

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.211e+05 / 38
p0 1.552e−11 ± 3.187e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

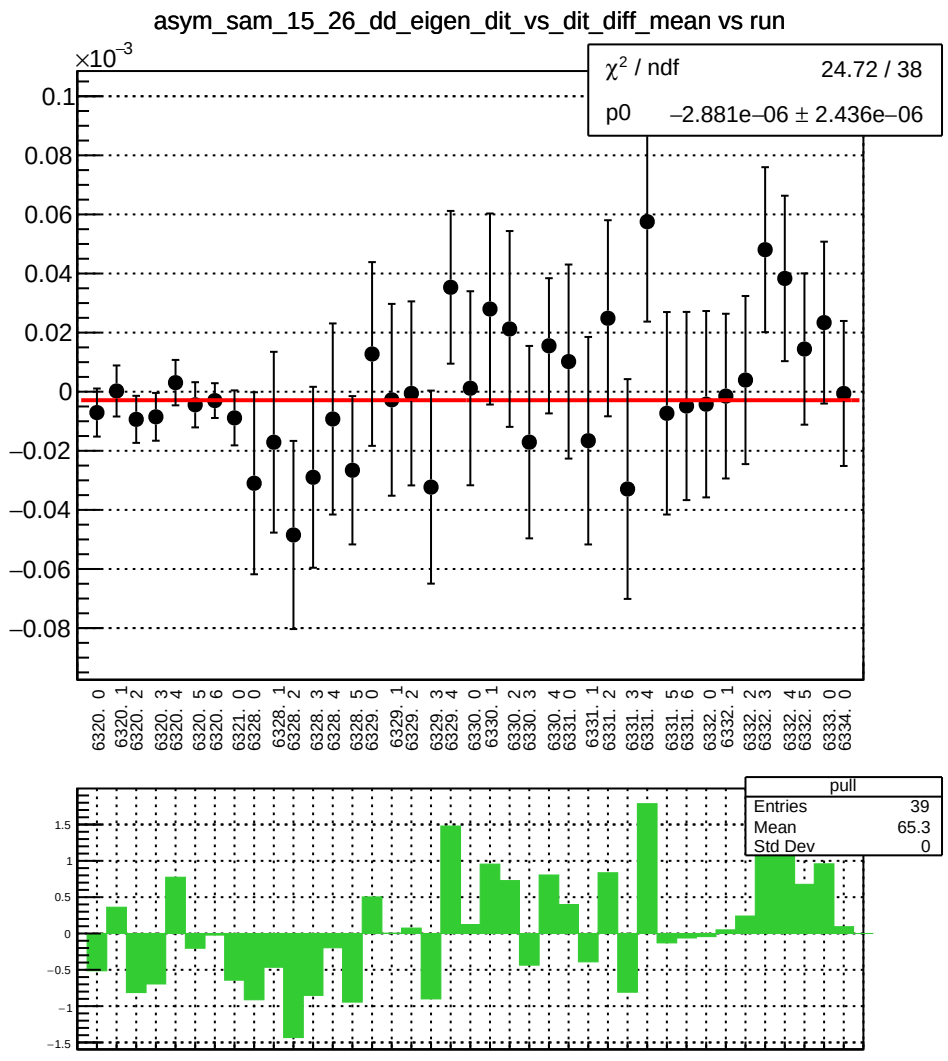

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.98 / 38
p0 0.008131 ± 0.05728
pull
Entries 39
Mean −1101
Std Dev 0

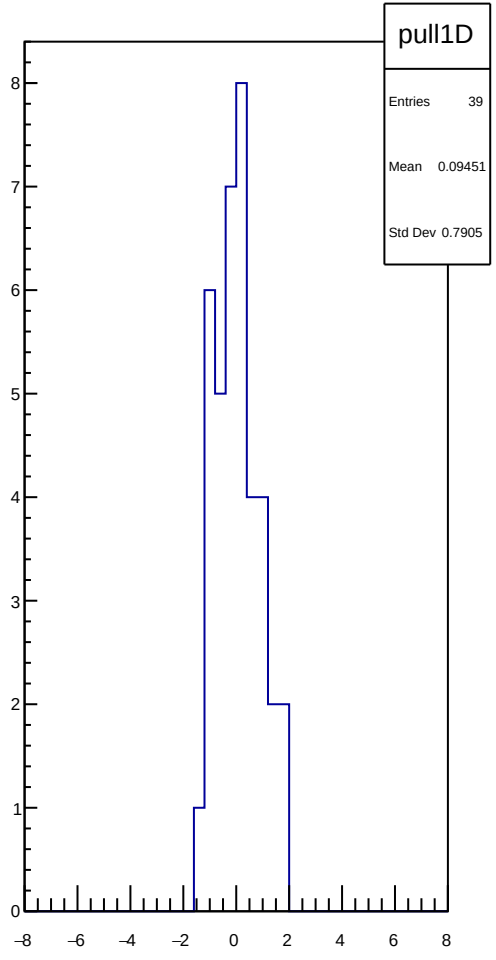

pull1D
Entries 39
Mean −0.001604
Std Dev 0.9055

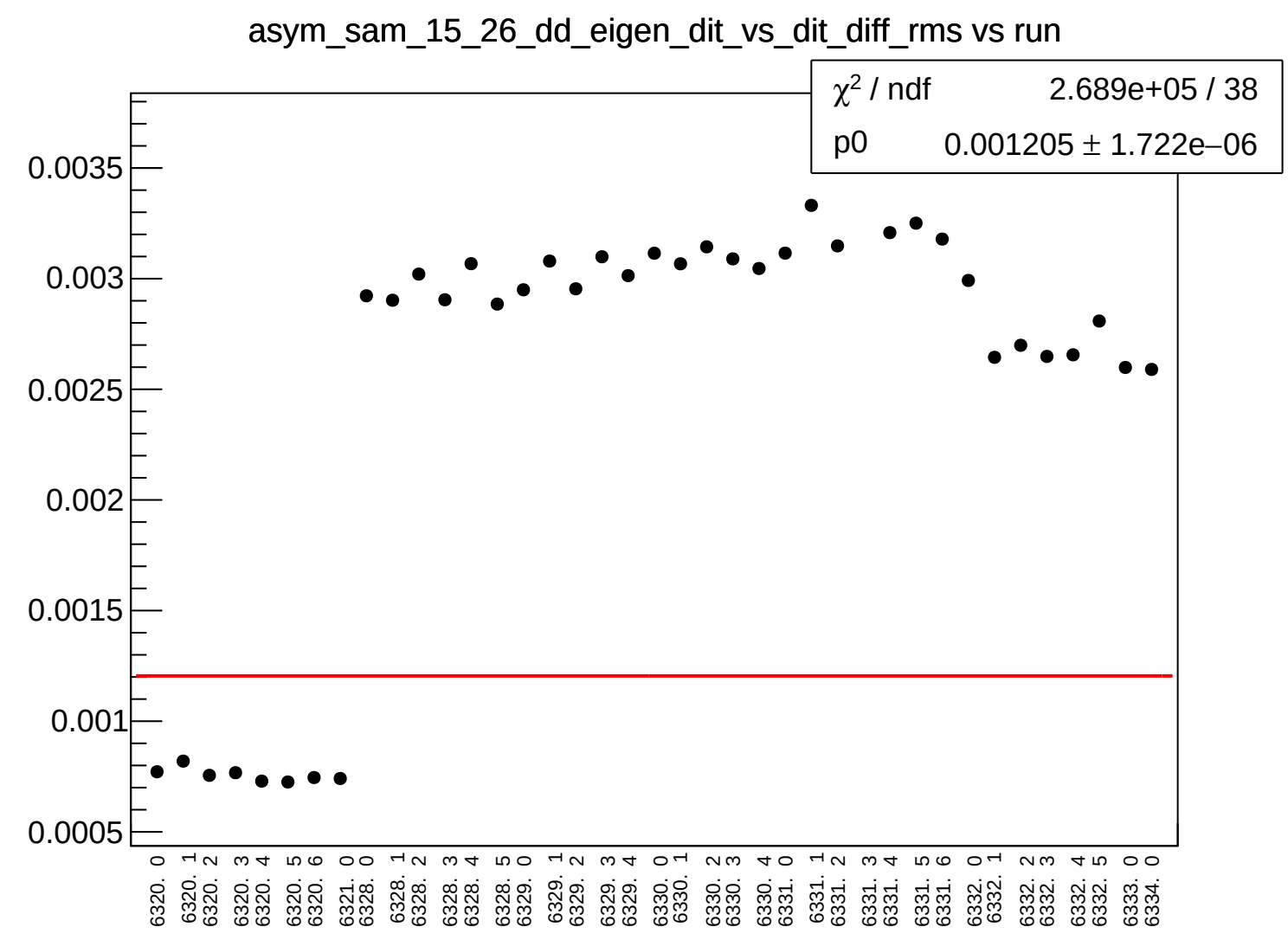

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.088e+04 / 38
p0 33.33 ± 0.0405
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

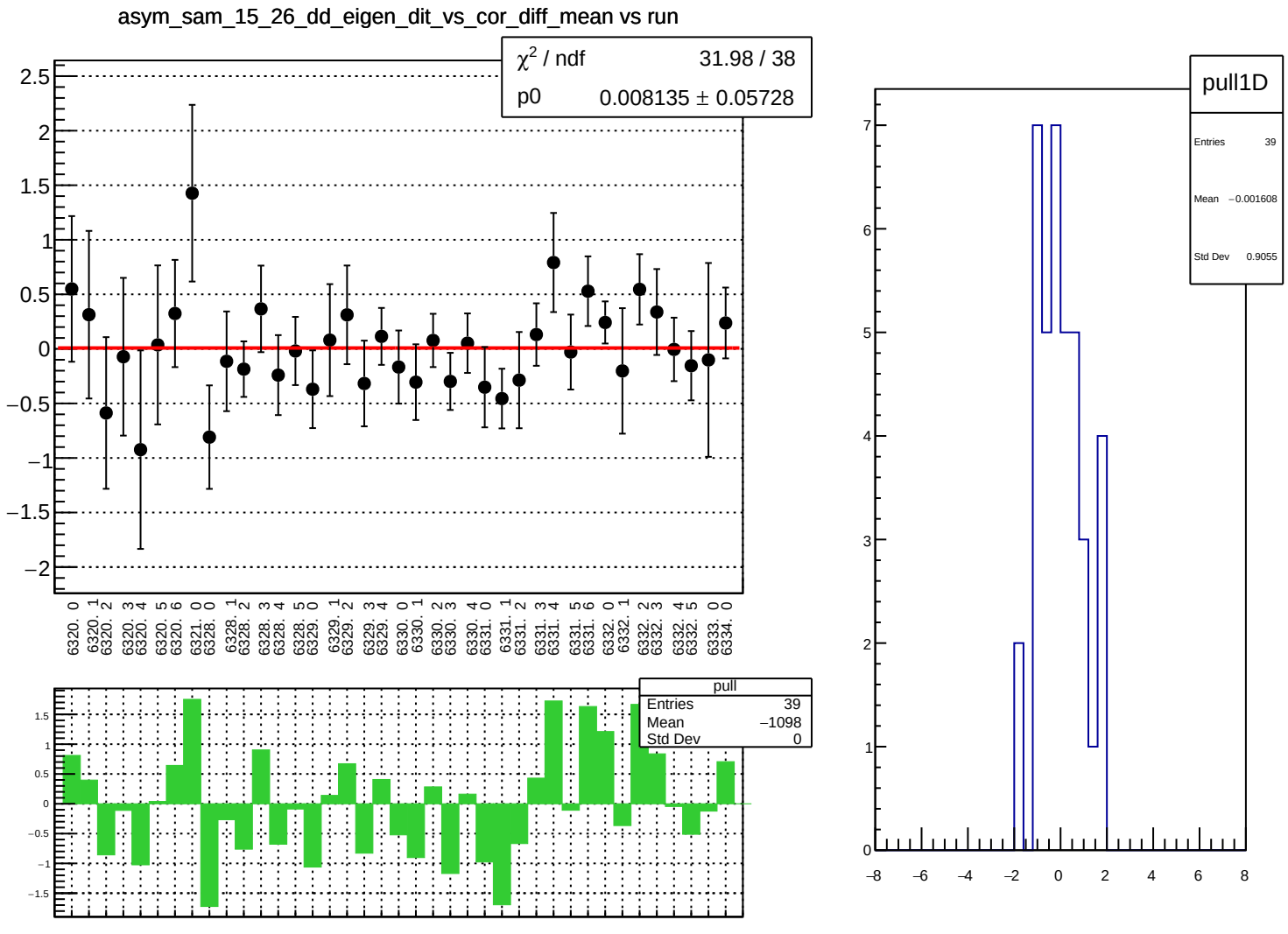

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.98 / 38
p0 0.008131 ± 0.05728
pull
Entries 39
Mean −1101
Std Dev 0
pull1D
Entries 39
Mean −0.001604
Std Dev 0.9055

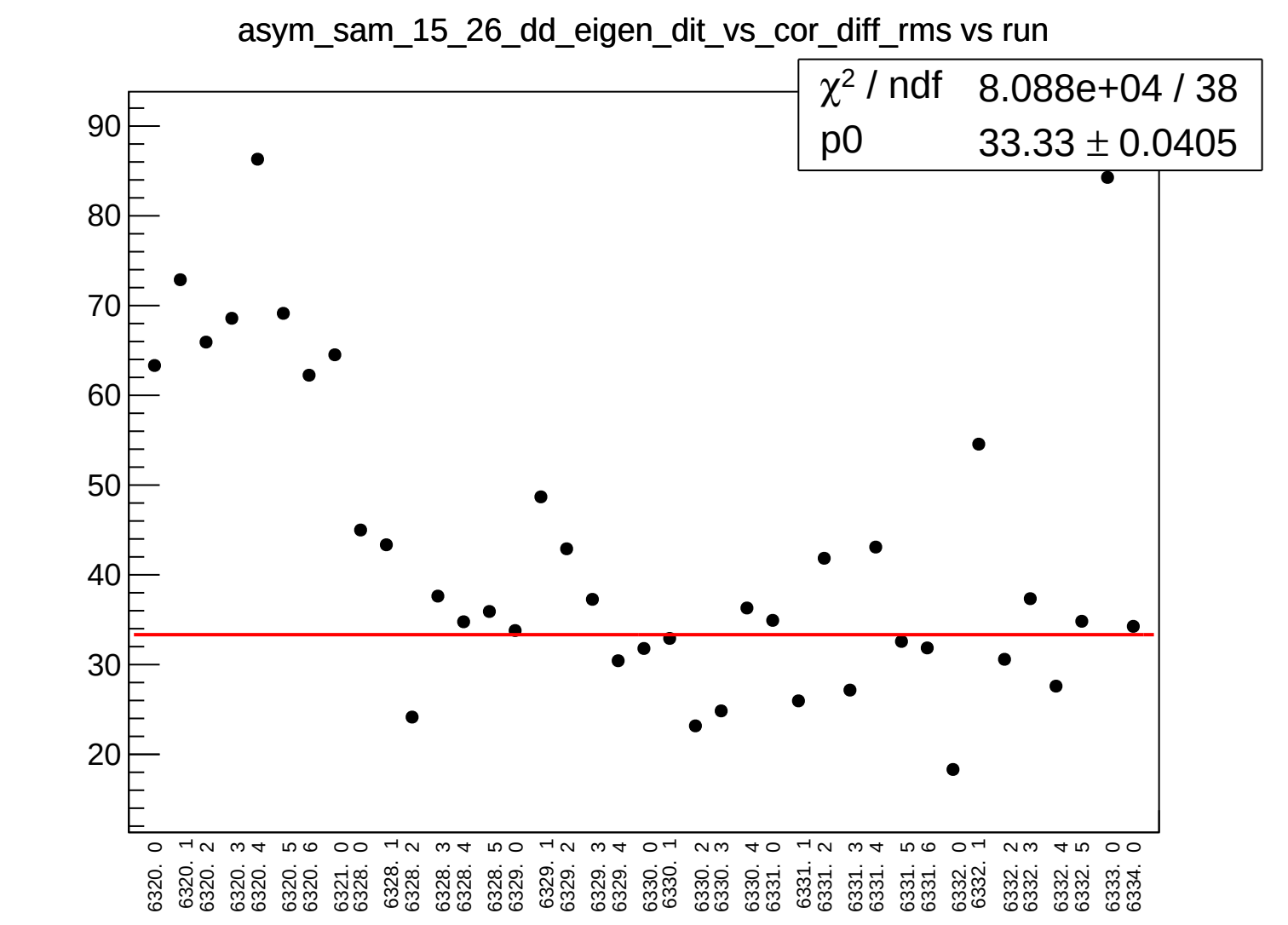

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.088e+04 / 38
p0 33.33 ± 0.0405
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

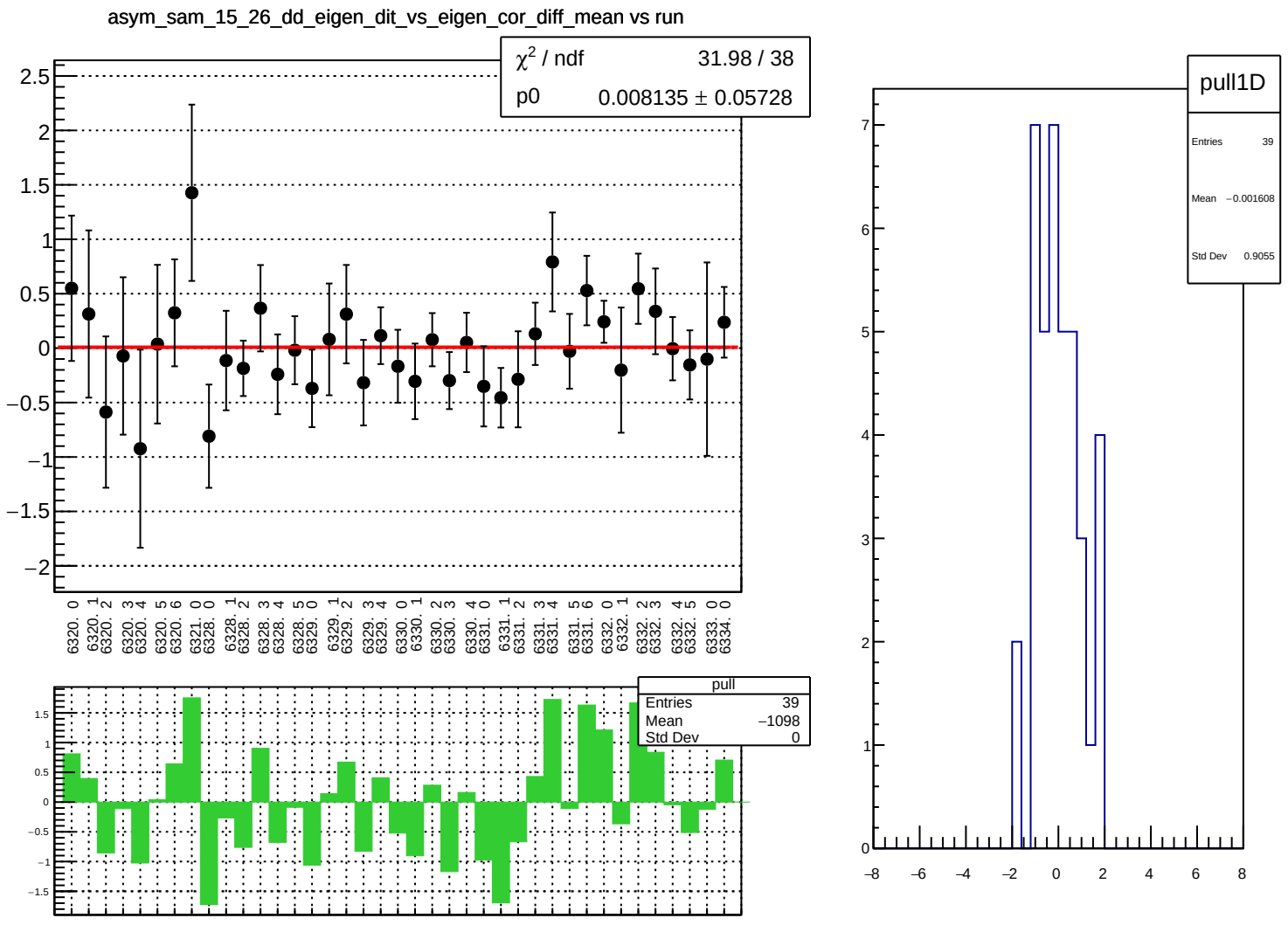

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 24.72 / 38
p0 −2.881e−06 ± 2.436e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 65.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

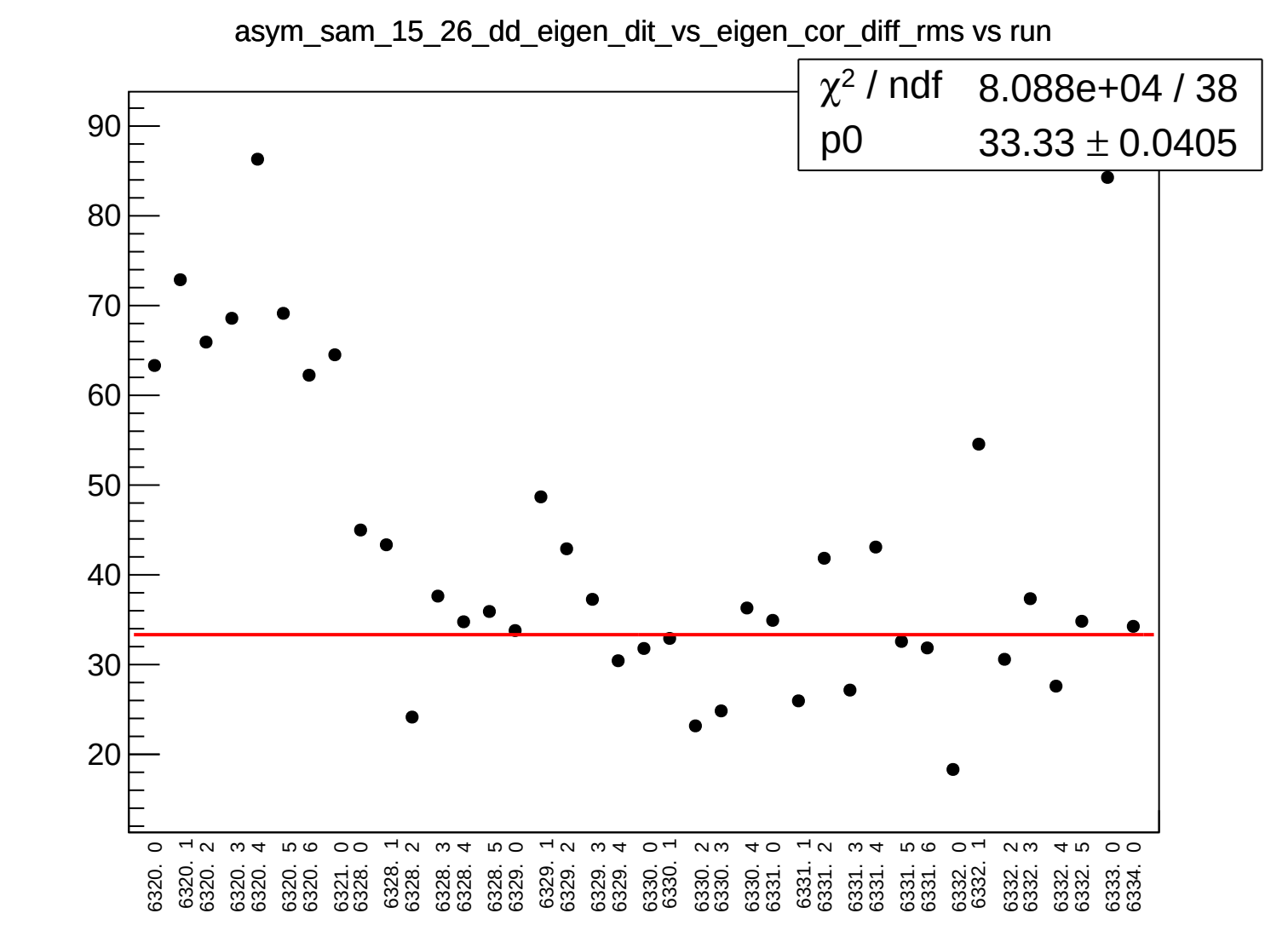

pull1D
Entries 39
Mean 0.09451
Std Dev 0.7905
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

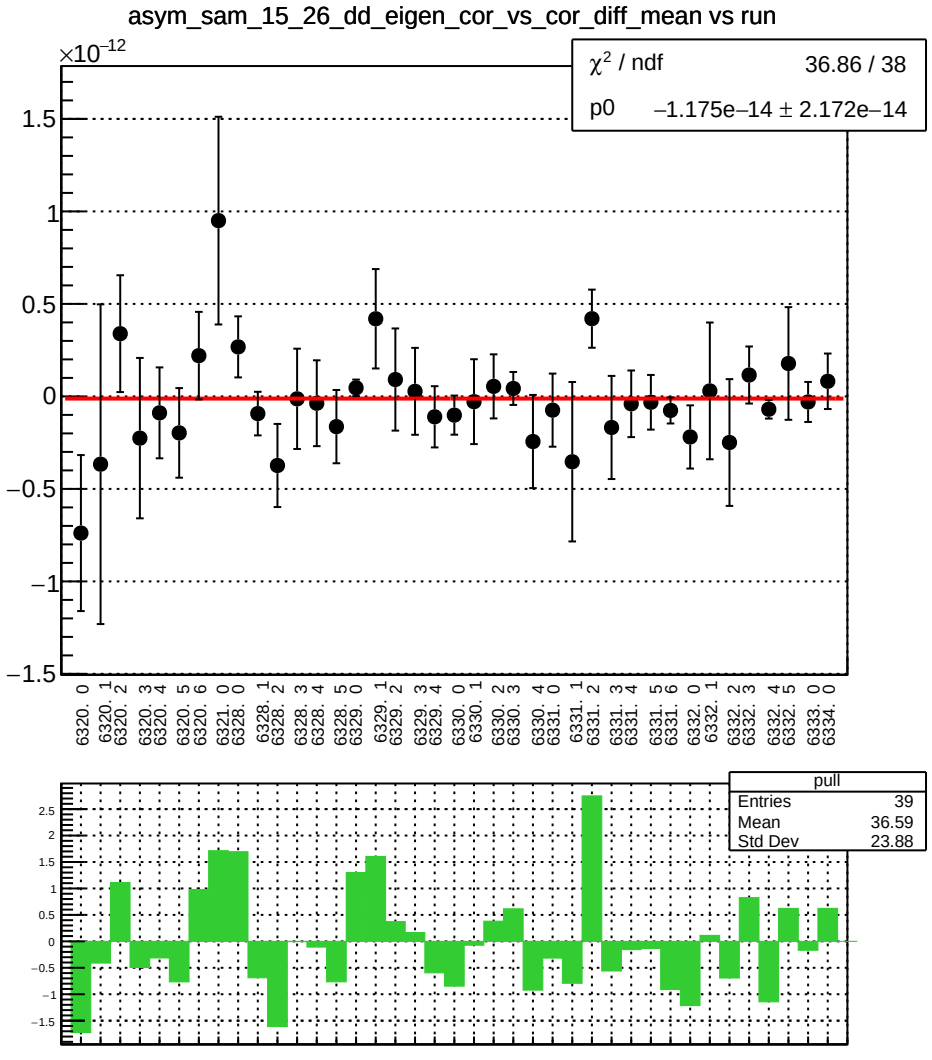

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.689e+05 / 38
p0 0.001205 ± 1.722e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

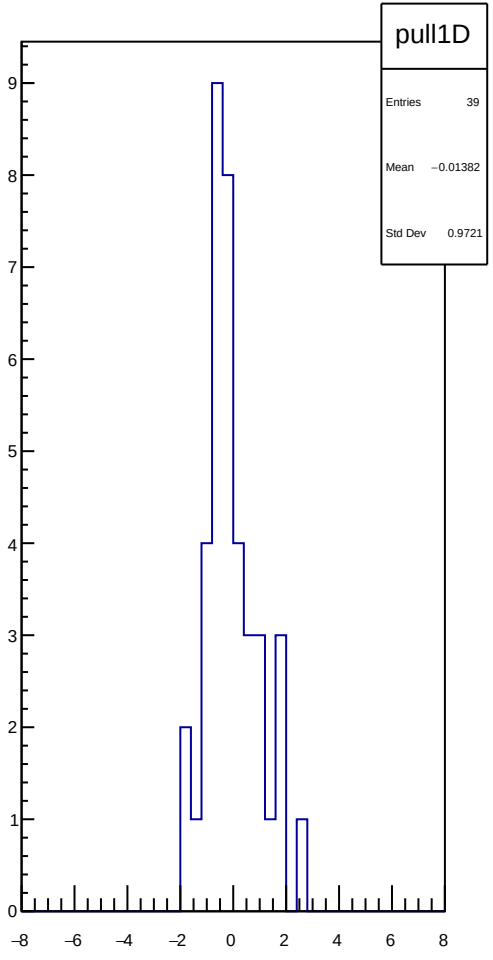

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.98 / 38
p0 0.008135 ± 0.05728
pull
Entries 39
Mean −1098
Std Dev 0
pull1D
Entries 39
Mean −0.001608
Std Dev 0.9055

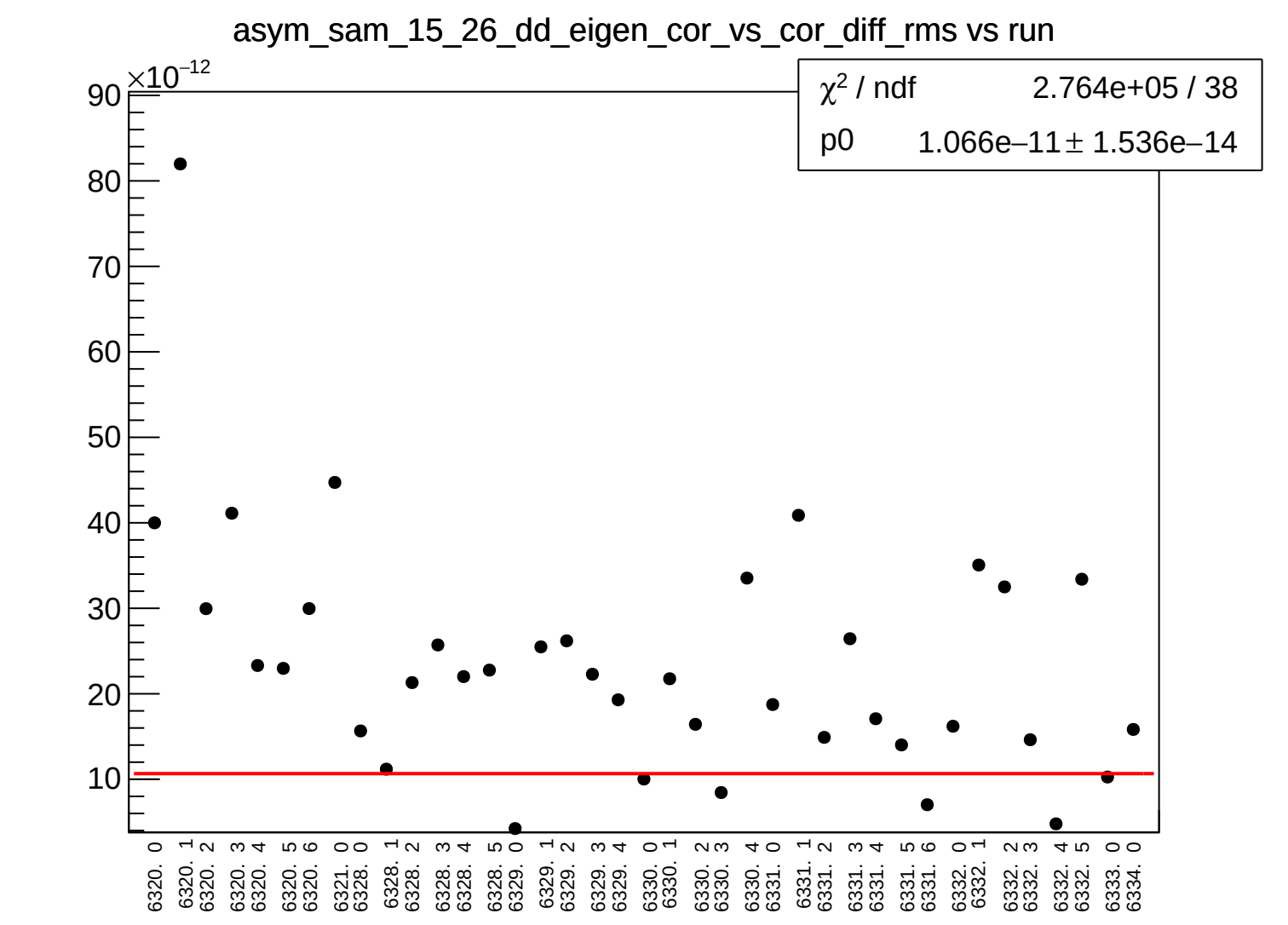

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.088e+04 / 38
p0 33.33 ± 0.0405
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

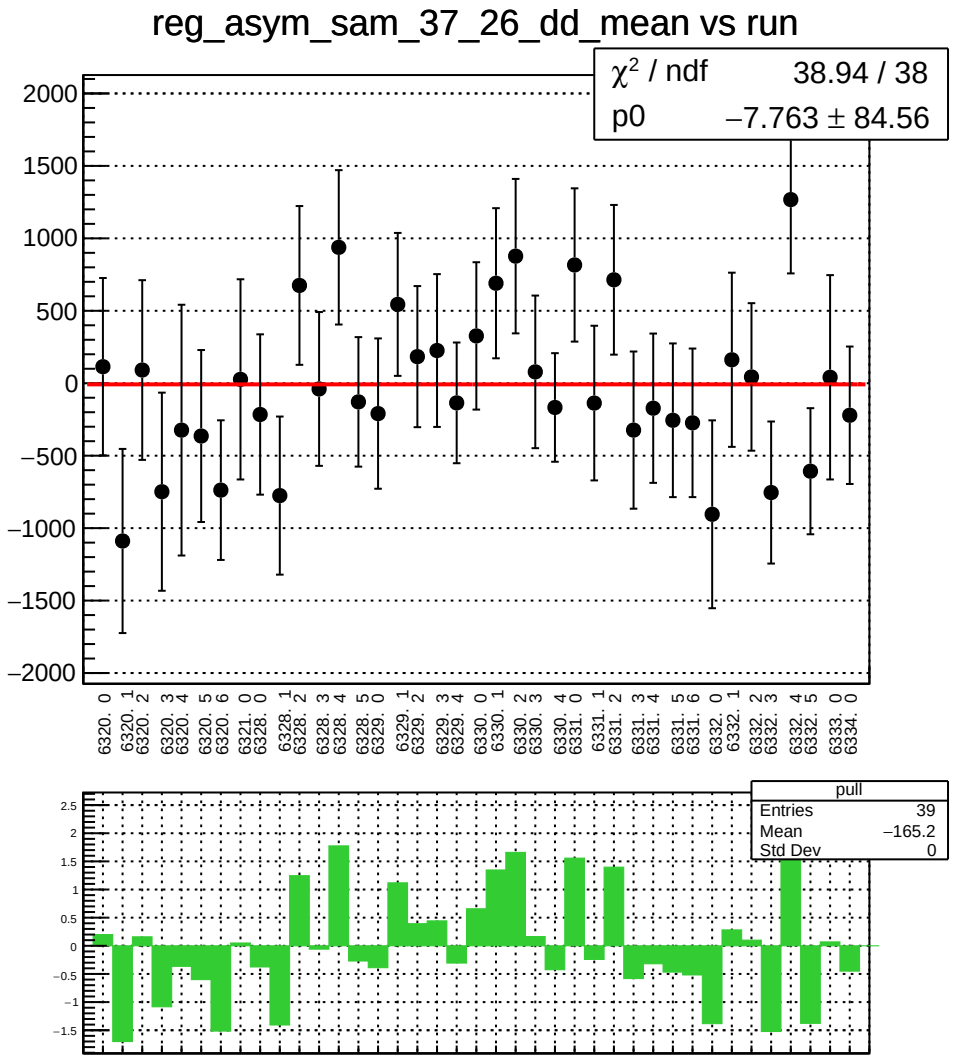

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.98 / 38
p0 0.008135 ± 0.05728
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1098
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.001608
Std Dev 0.9055
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

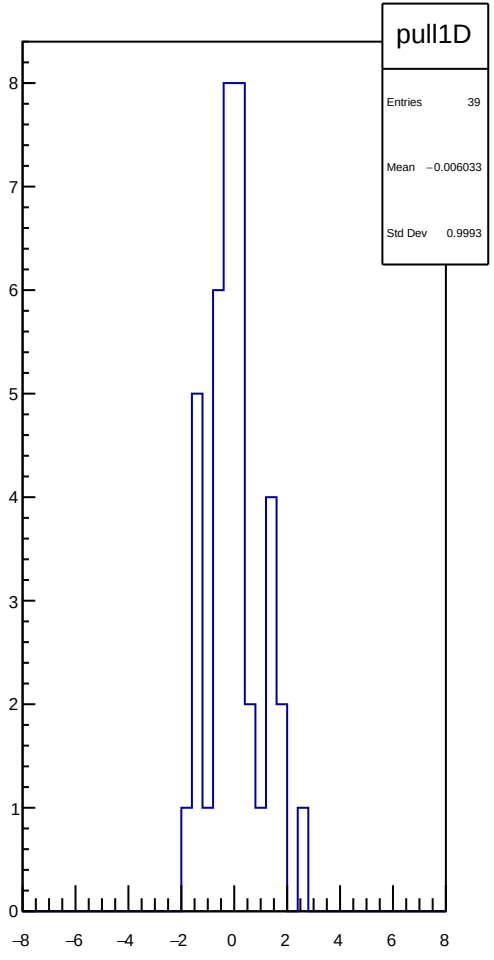

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.088e+04 / 38
p0 33.33 ± 0.0405
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

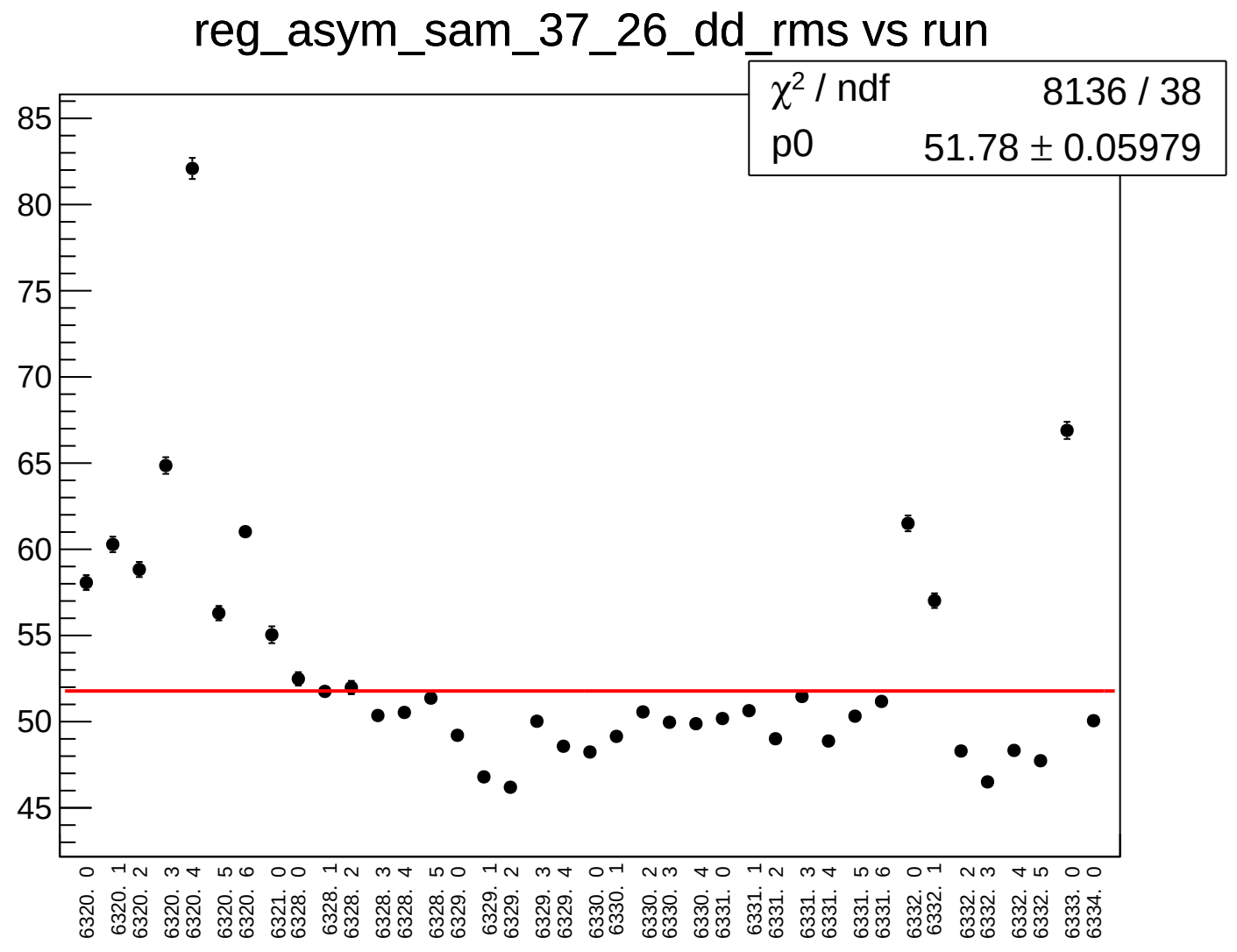

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.86 / 38
p0 −1.175e−14 ± 2.172e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 36.59
Std Dev 23.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

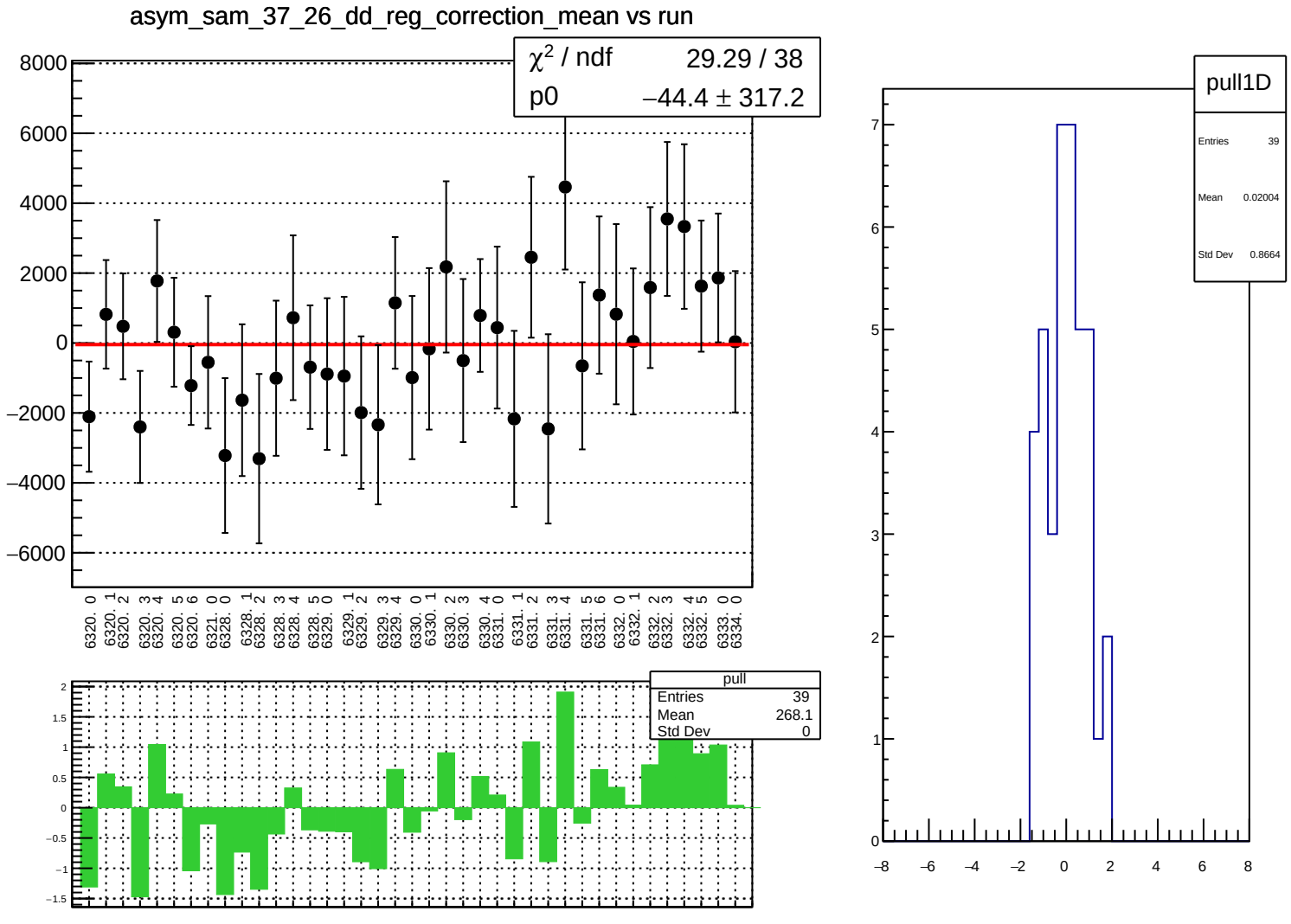

pull1D
Entries 39
Mean −0.01382
Std Dev 0.9721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

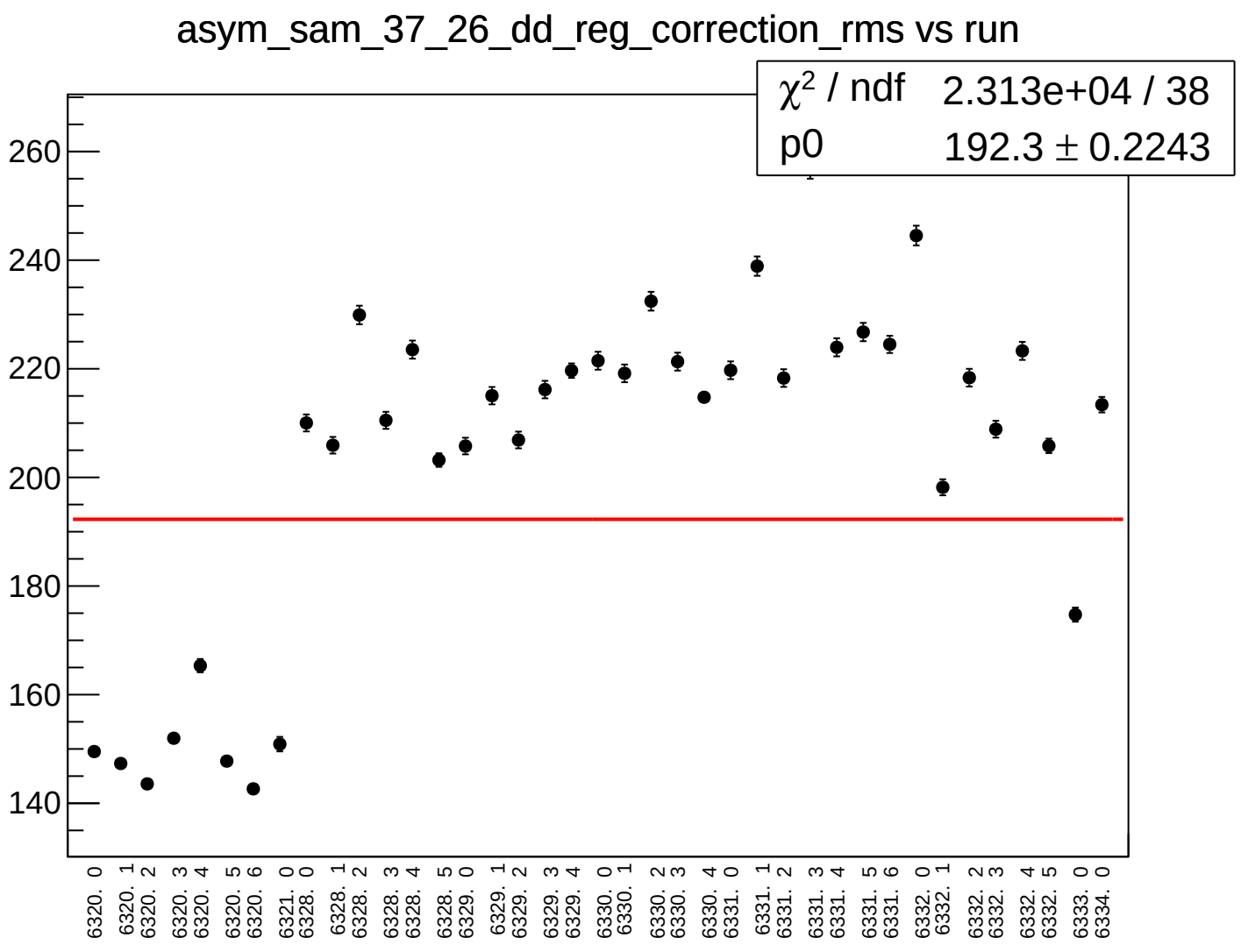

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.764e+05 / 38
p0 1.066e−11 ± 1.536e−14
90
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

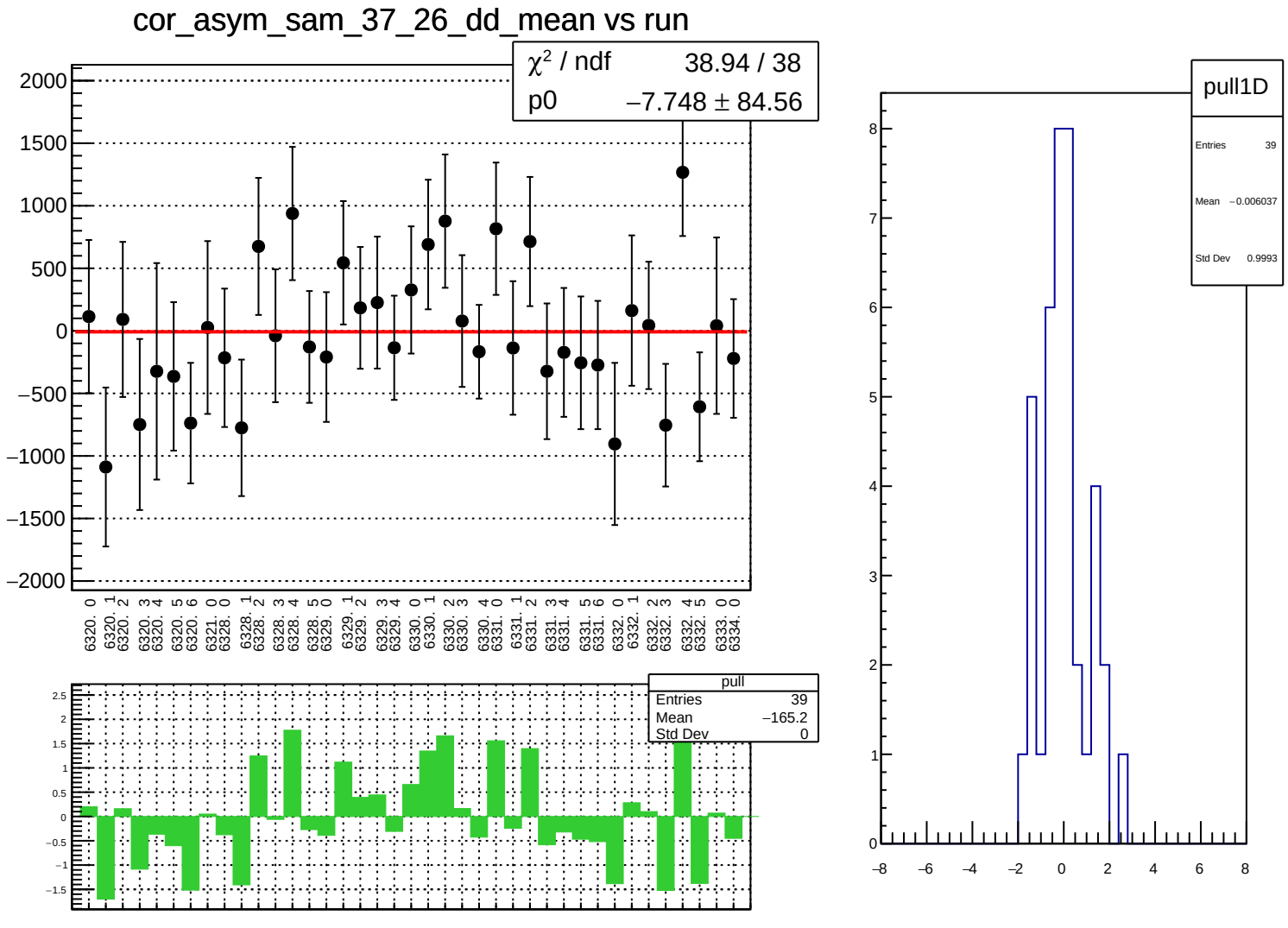

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 38.94 / 38
p0 −7.763 ± 84.56
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −165.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

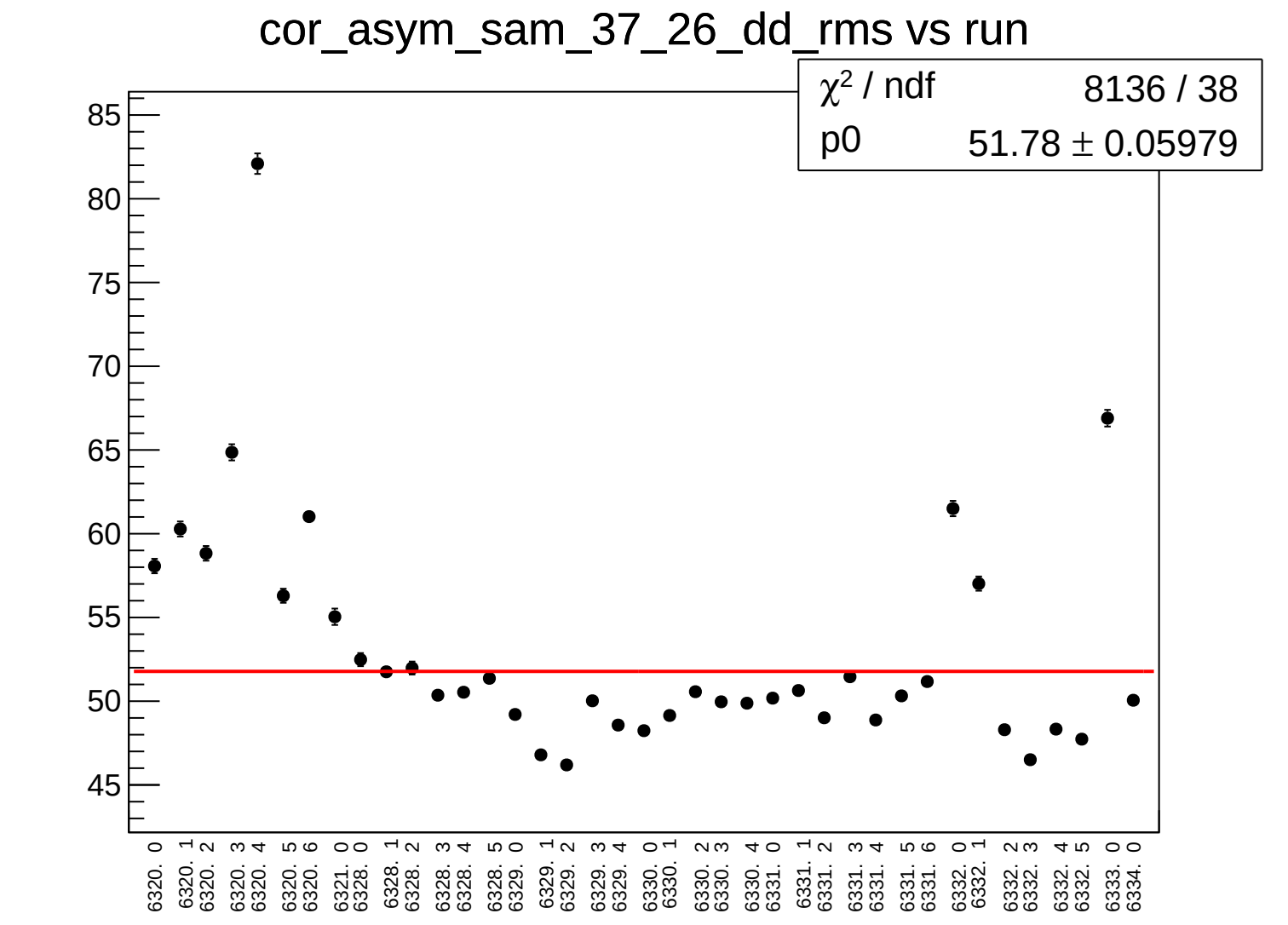

pull1D
Entries 39
Mean −0.006033
Std Dev 0.9993
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

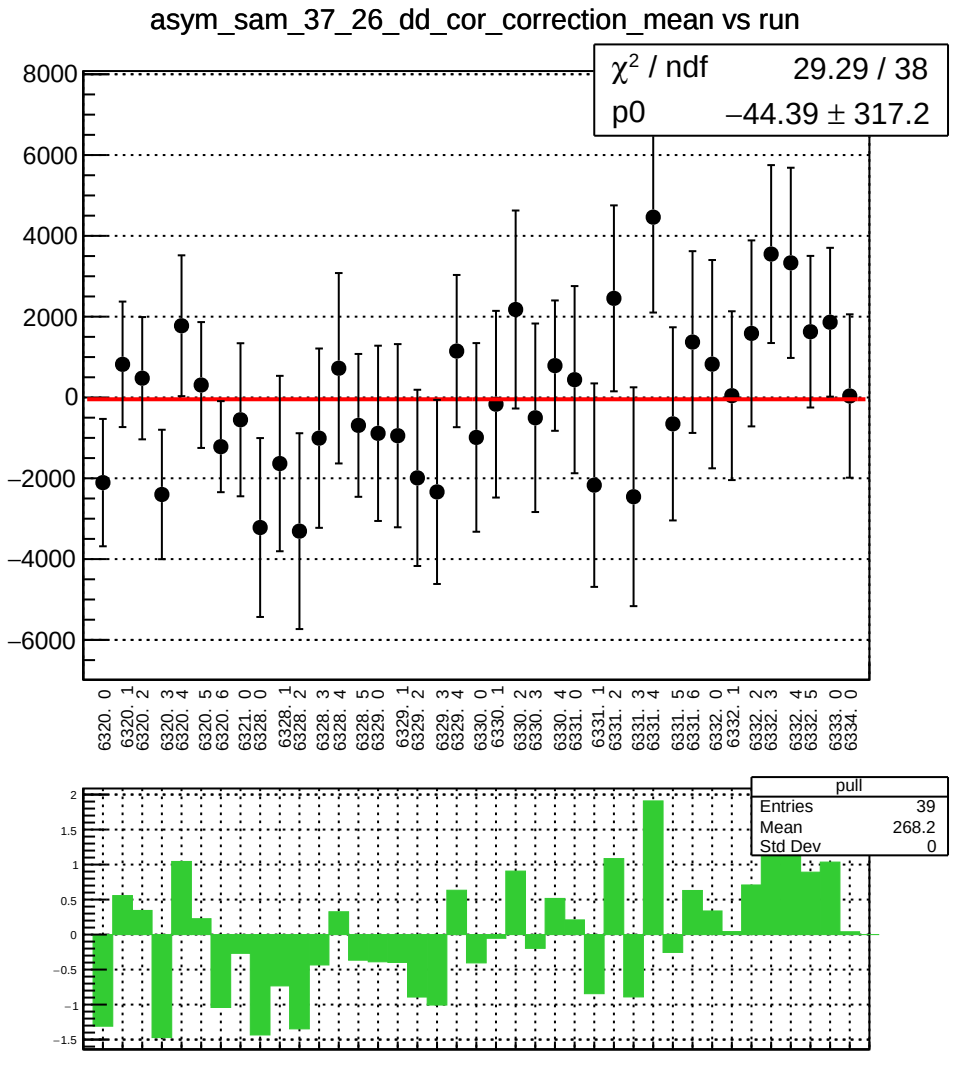

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 8136 / 38
p0 51.78 ± 0.05979
85
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

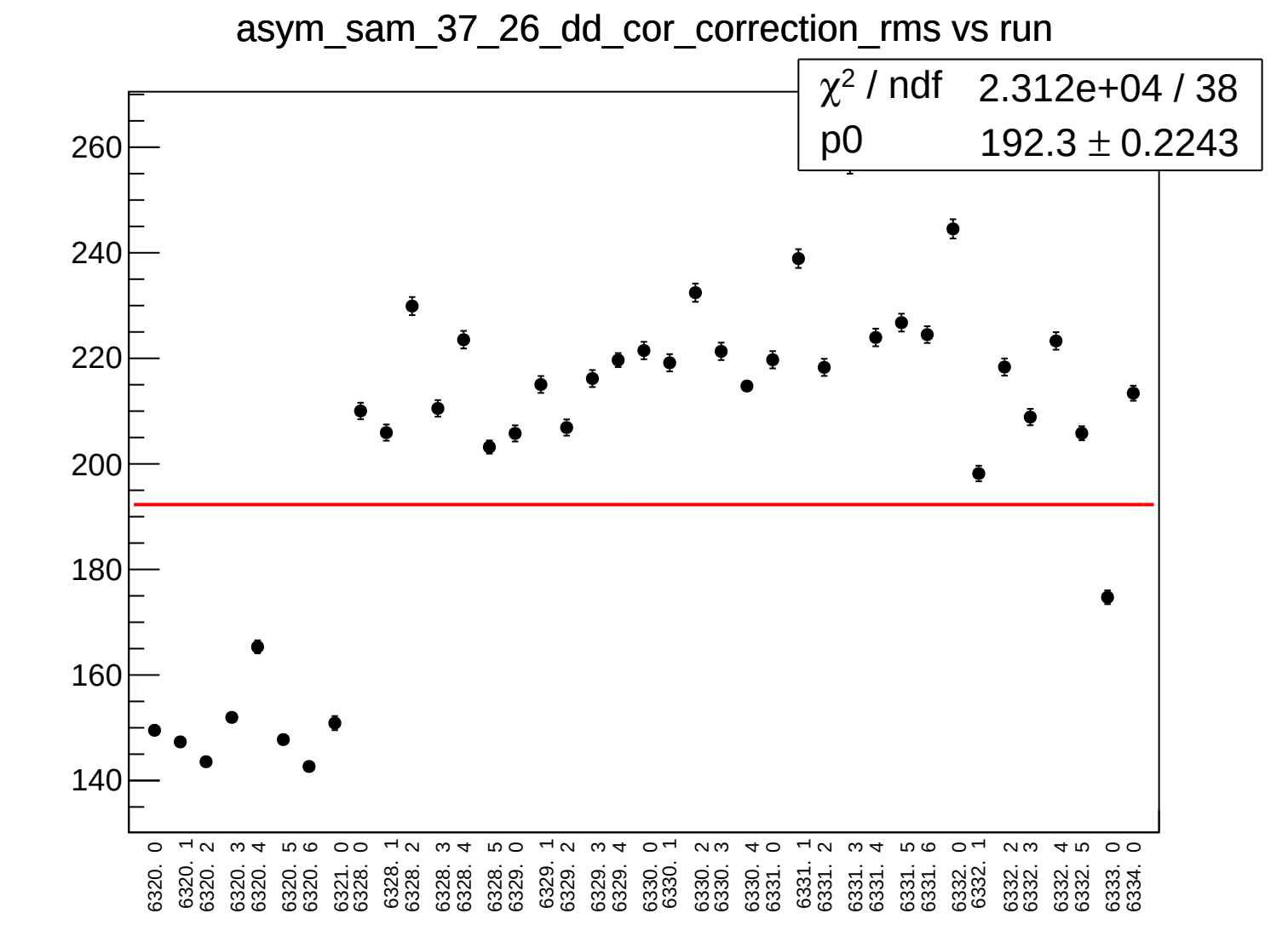

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 29.29 / 38
p0 −44.4 ± 317.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 268.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02004
Std Dev 0.8664
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

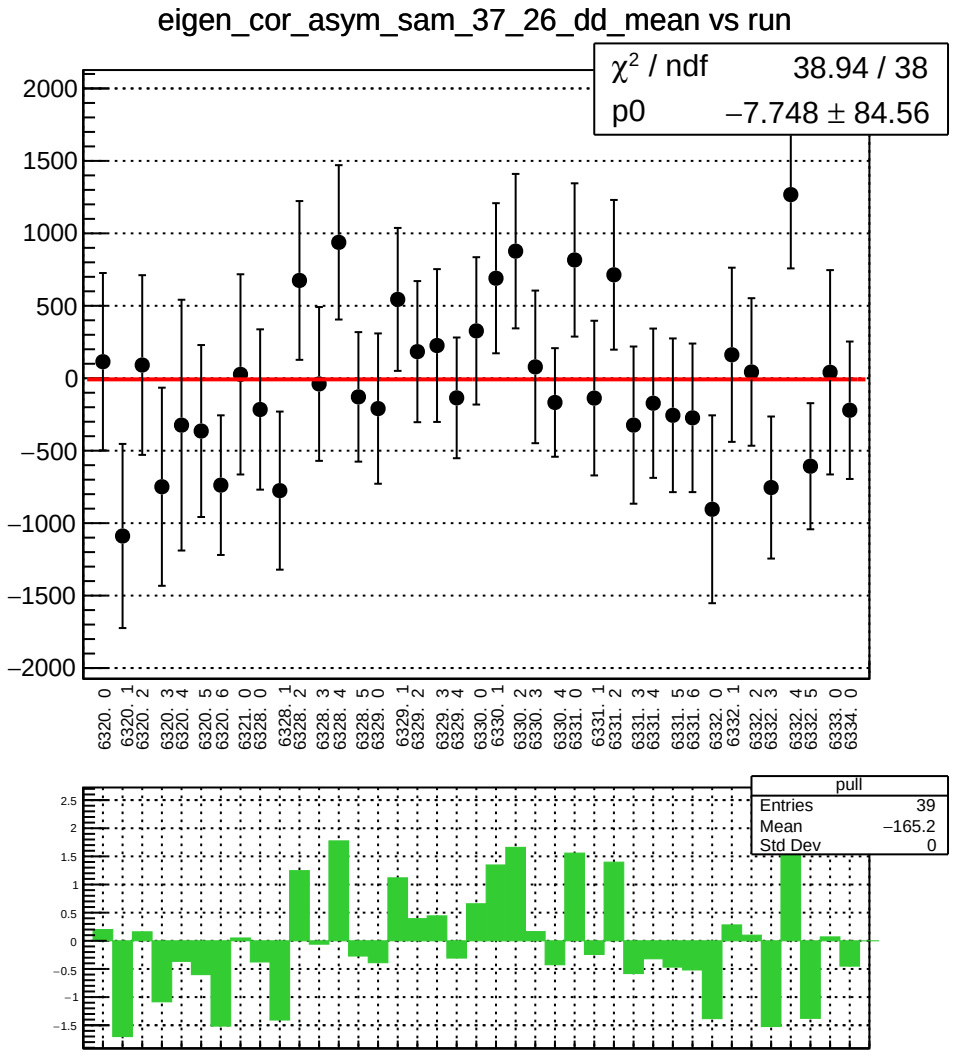

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.313e+04 / 38
p0 192.3 ± 0.2243
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

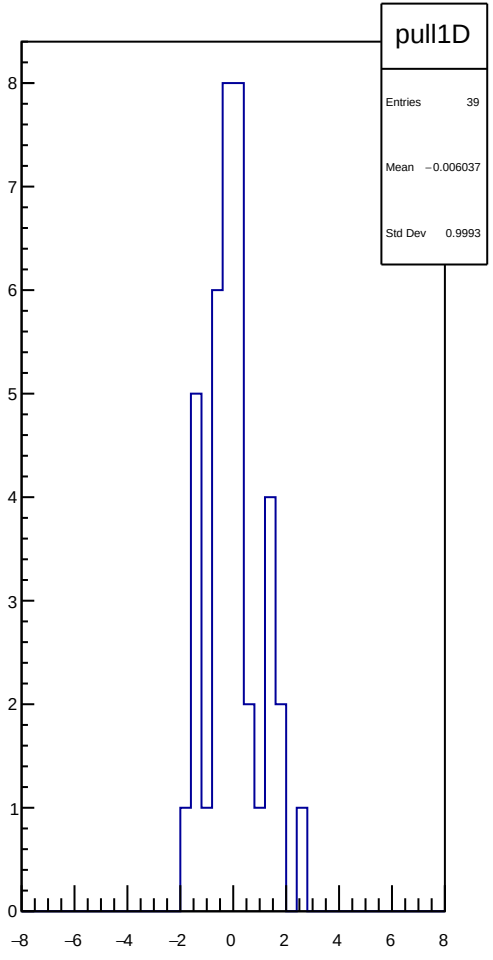

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 38.94 / 38
p0 −7.748 ± 84.56
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −165.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.006037
Std Dev 0.9993
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

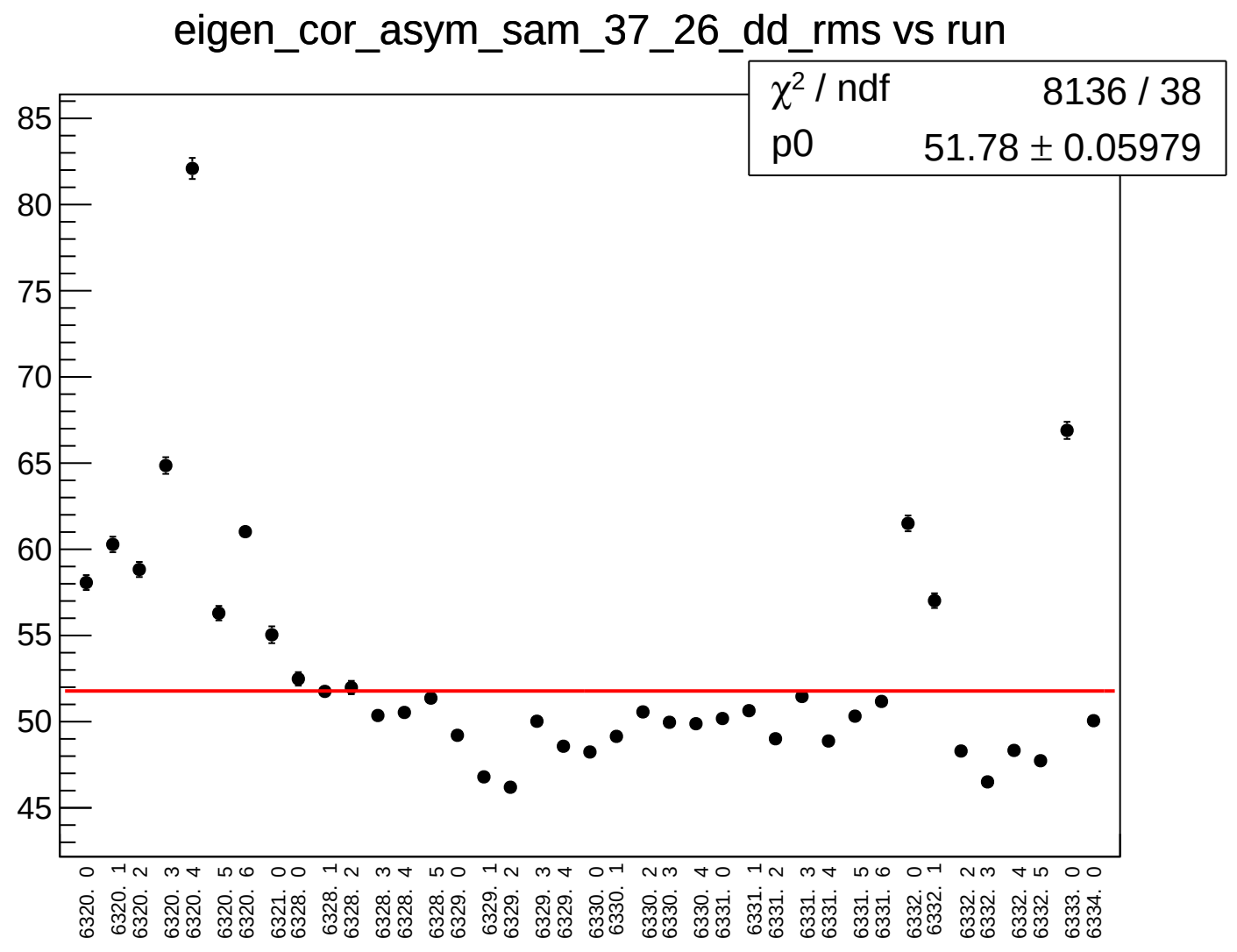

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8136 / 38
p0 51.78 ± 0.05979
85
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

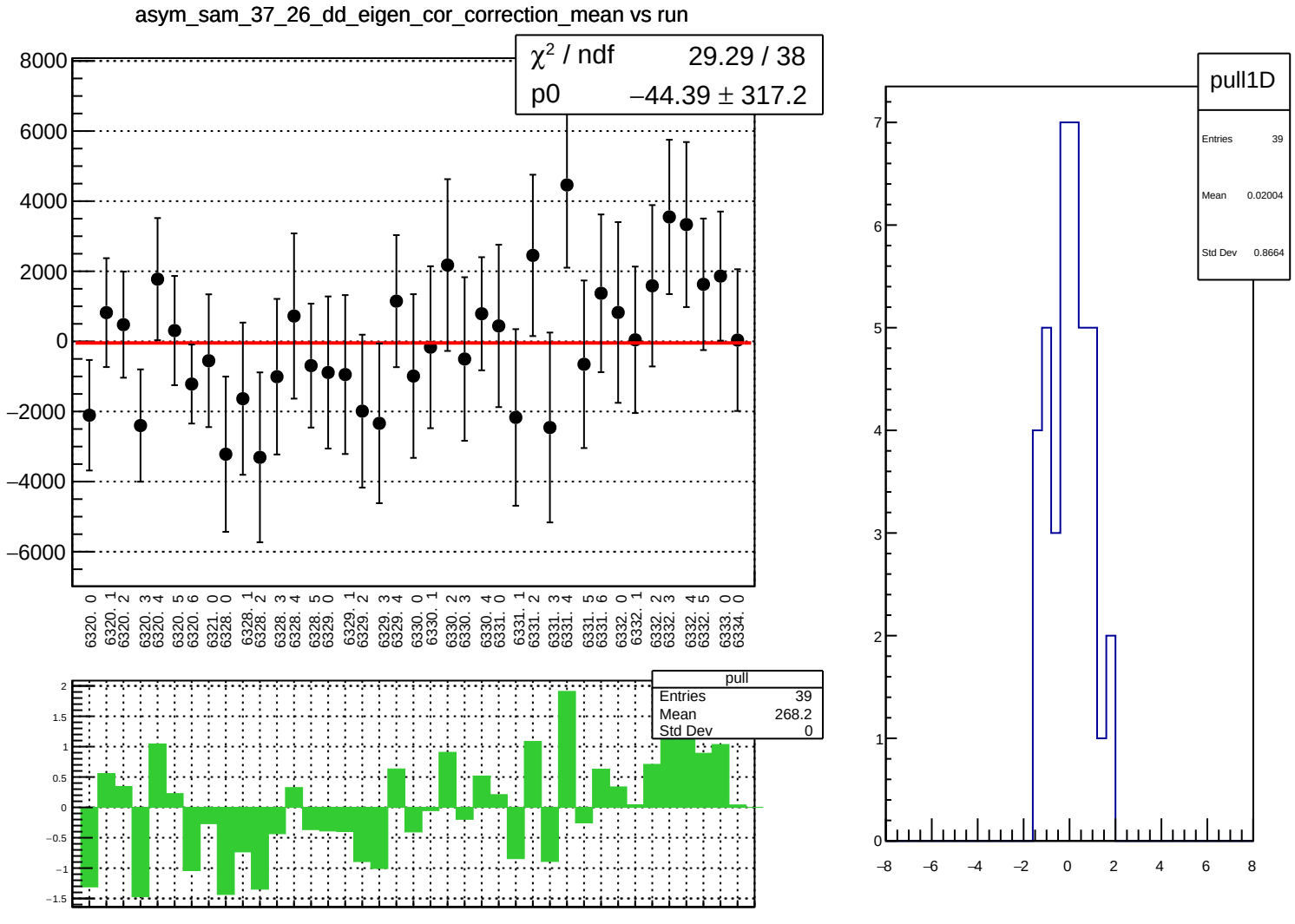

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 29.29 / 38
p0 −44.39 ± 317.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 268.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02004
Std Dev 0.8664
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

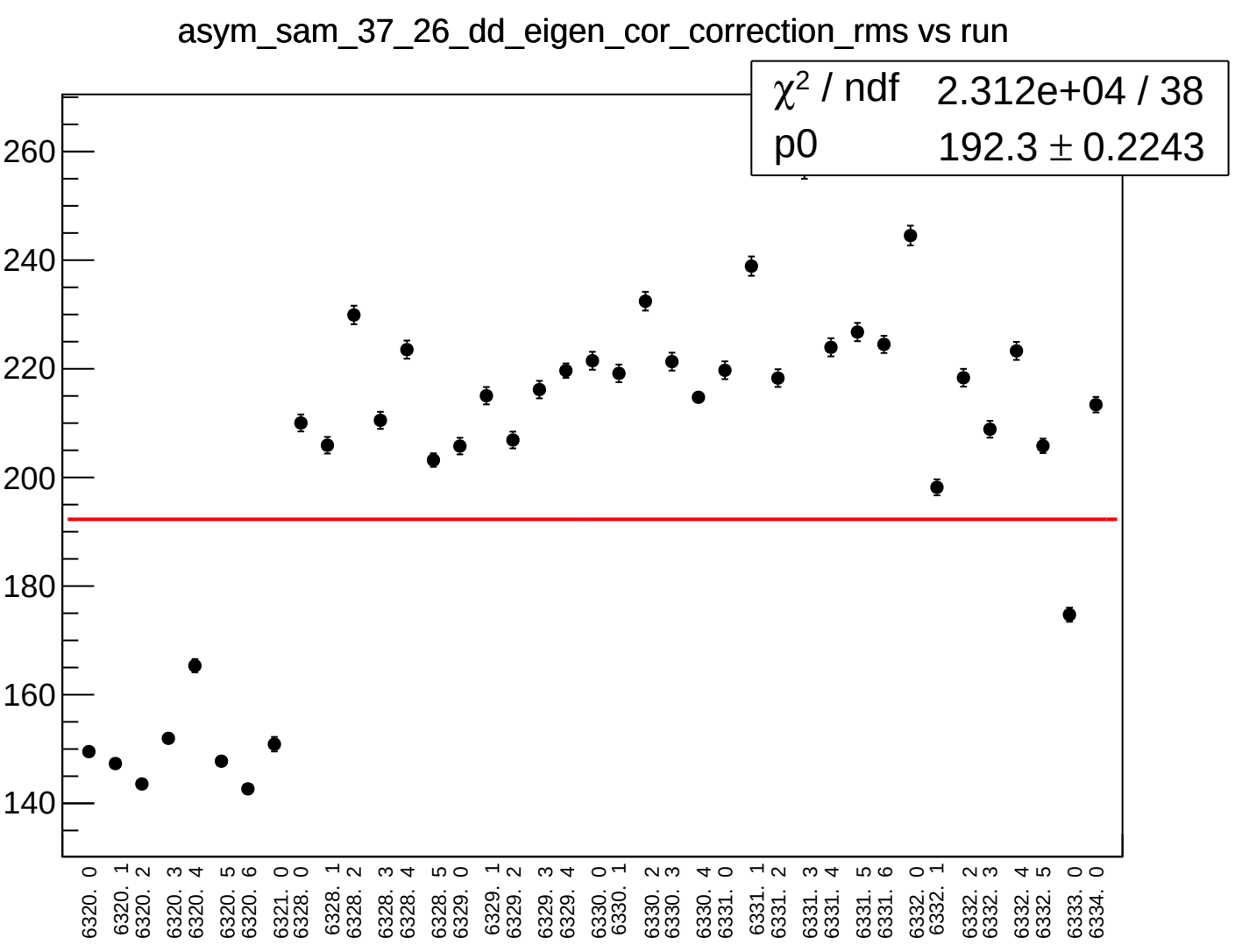

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.312e+04 / 38
p0 192.3 ± 0.2243
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

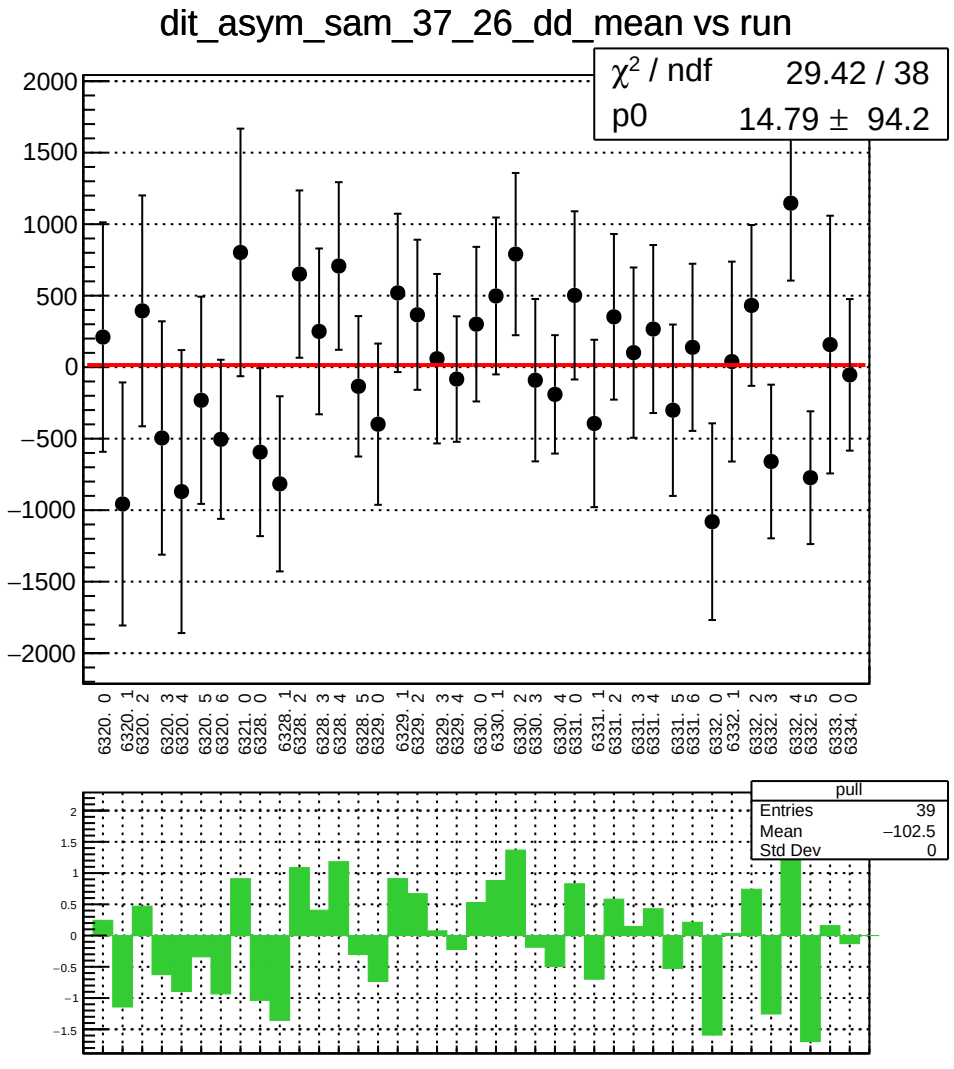

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 38.94 / 38
p0 −7.748 ± 84.56
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −165.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

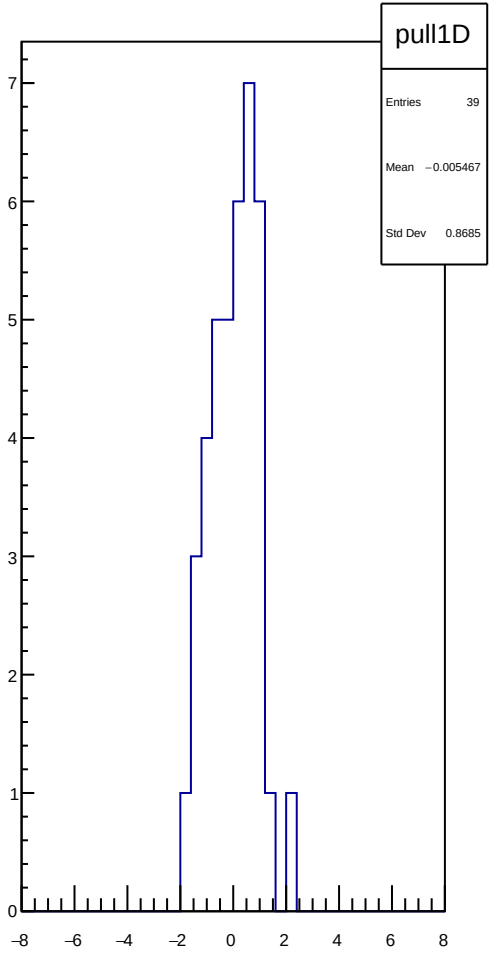

pull1D
Entries 39
Mean −0.006037
Std Dev 0.9993
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

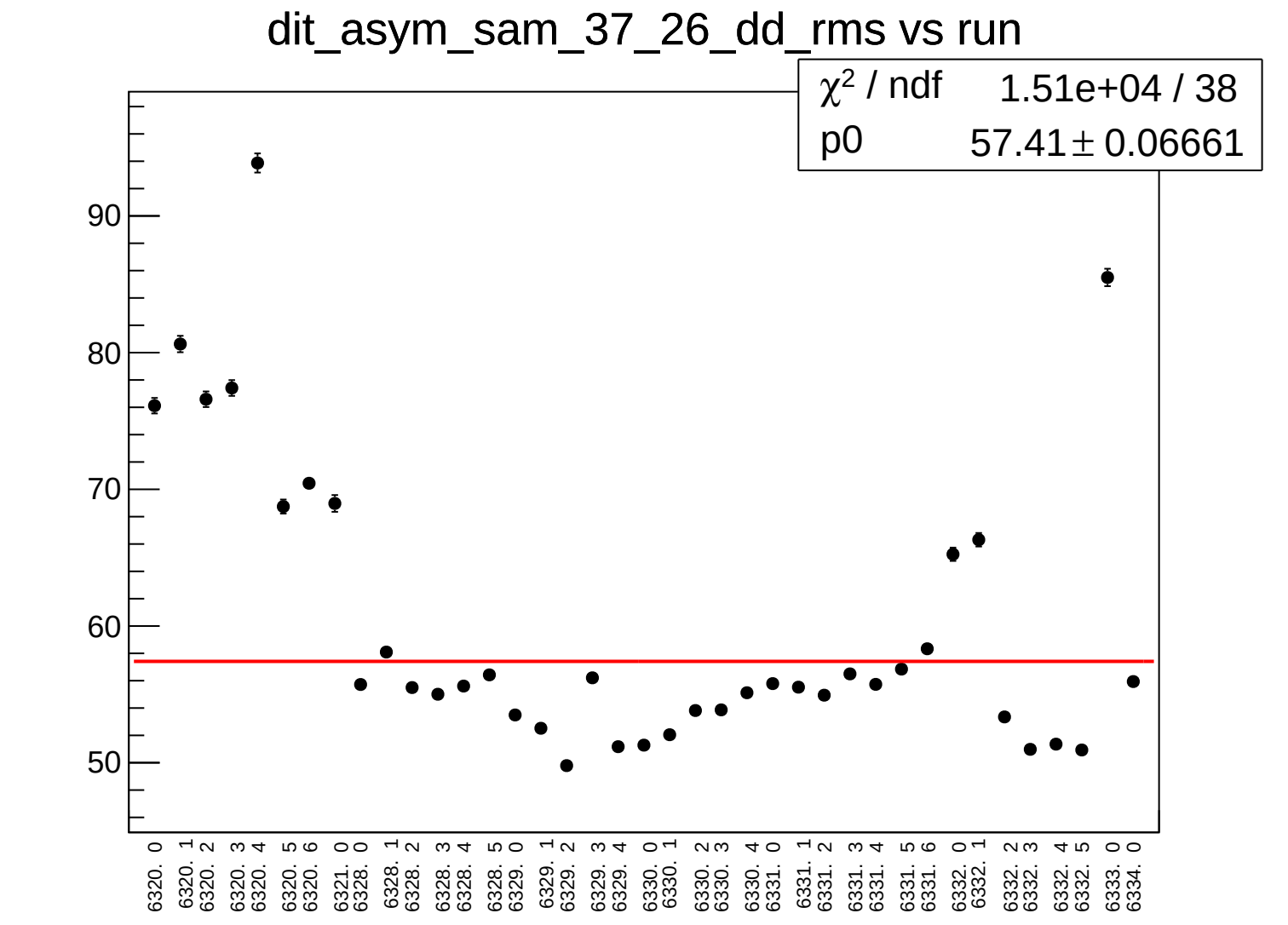

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8136 / 38
p0 51.78 ± 0.05979
85
80
75
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

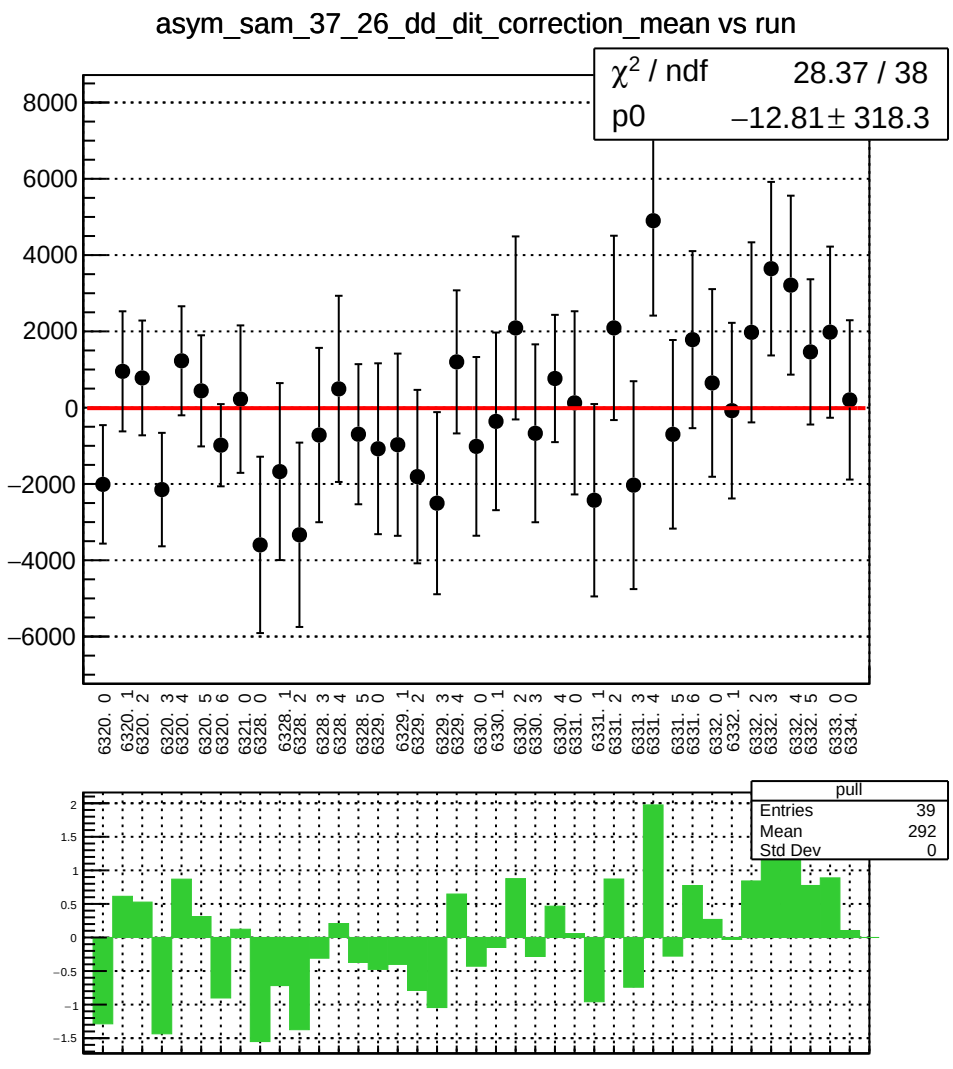

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 29.29 / 38
p0 −44.39 ± 317.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 268.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.02004
Std Dev 0.8664
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

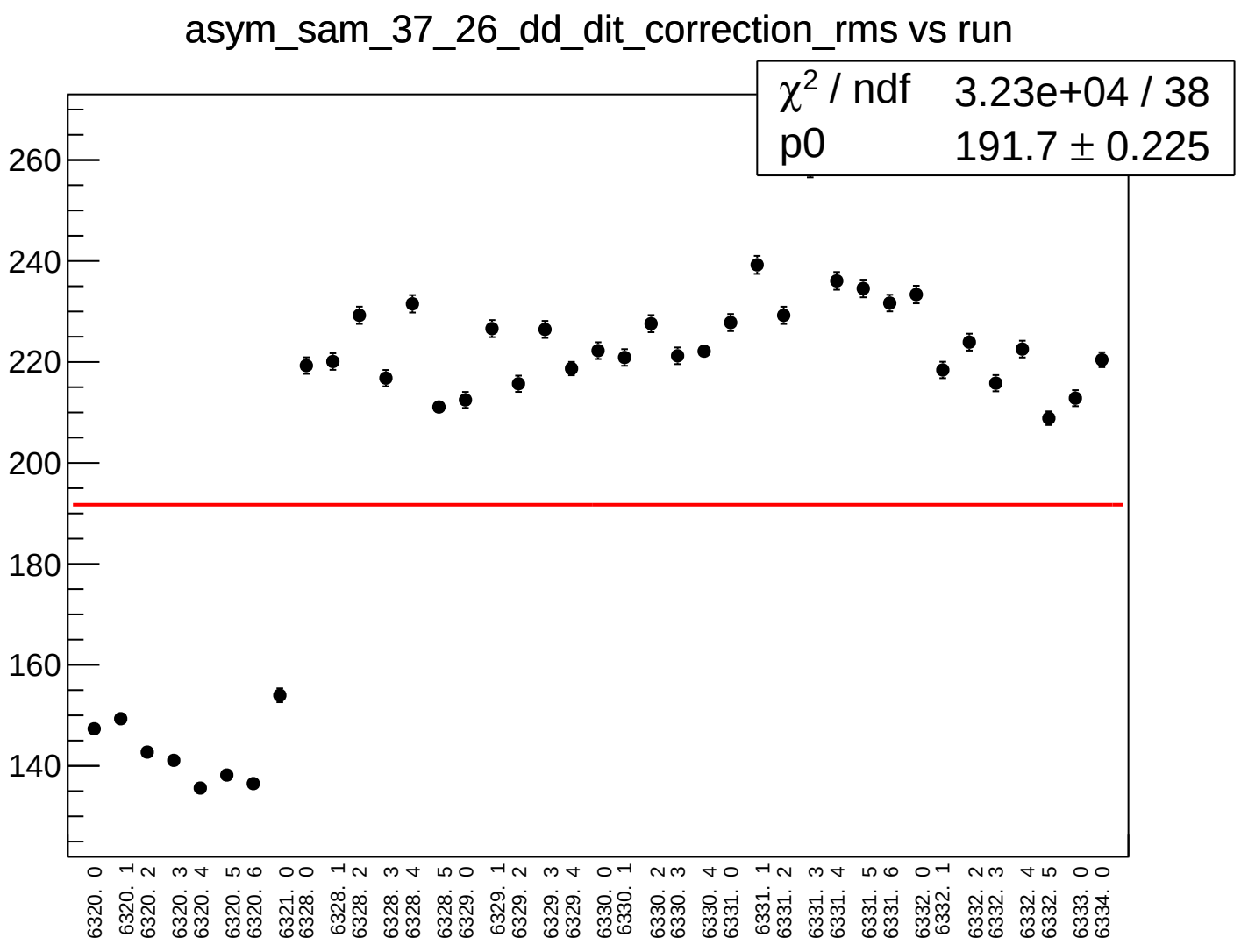

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.312e+04 / 38
p0 192.3 ± 0.2243
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 29.42 / 38
p0 14.79 ± 94.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −102.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.005467
Std Dev 0.8685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.51e+04 / 38
p0 57.41 ± 0.06661
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 28.37 / 38
p0 −12.81 ± 318.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 292
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.017
Std Dev 0.8528
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 3.23e+04 / 38
p0 191.7 ± 0.225
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
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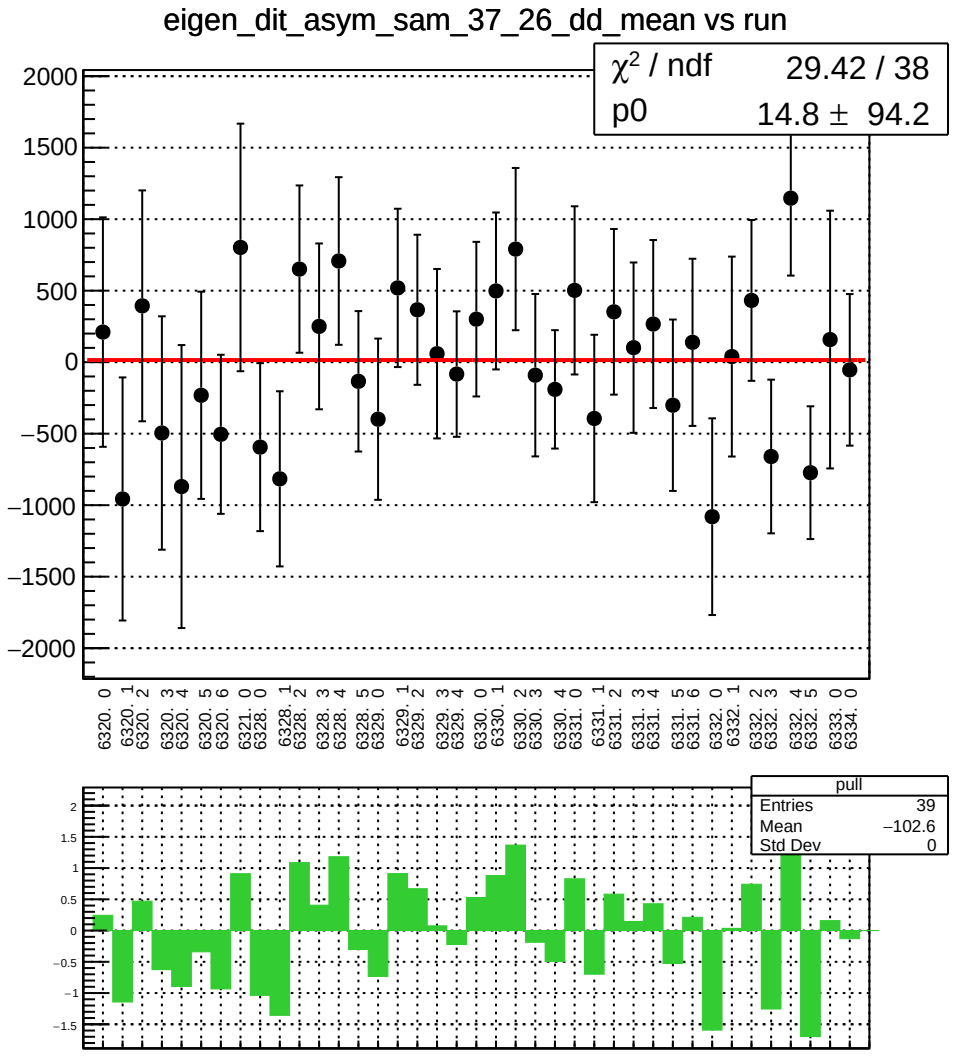
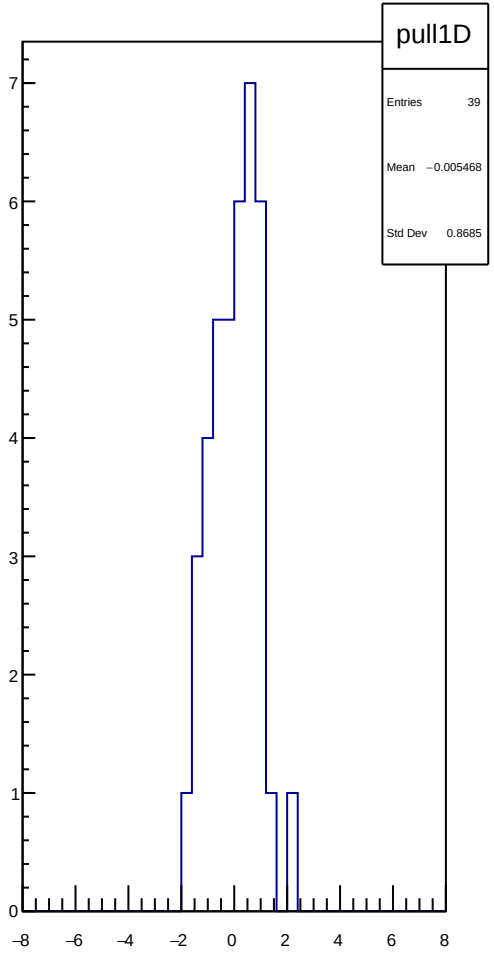
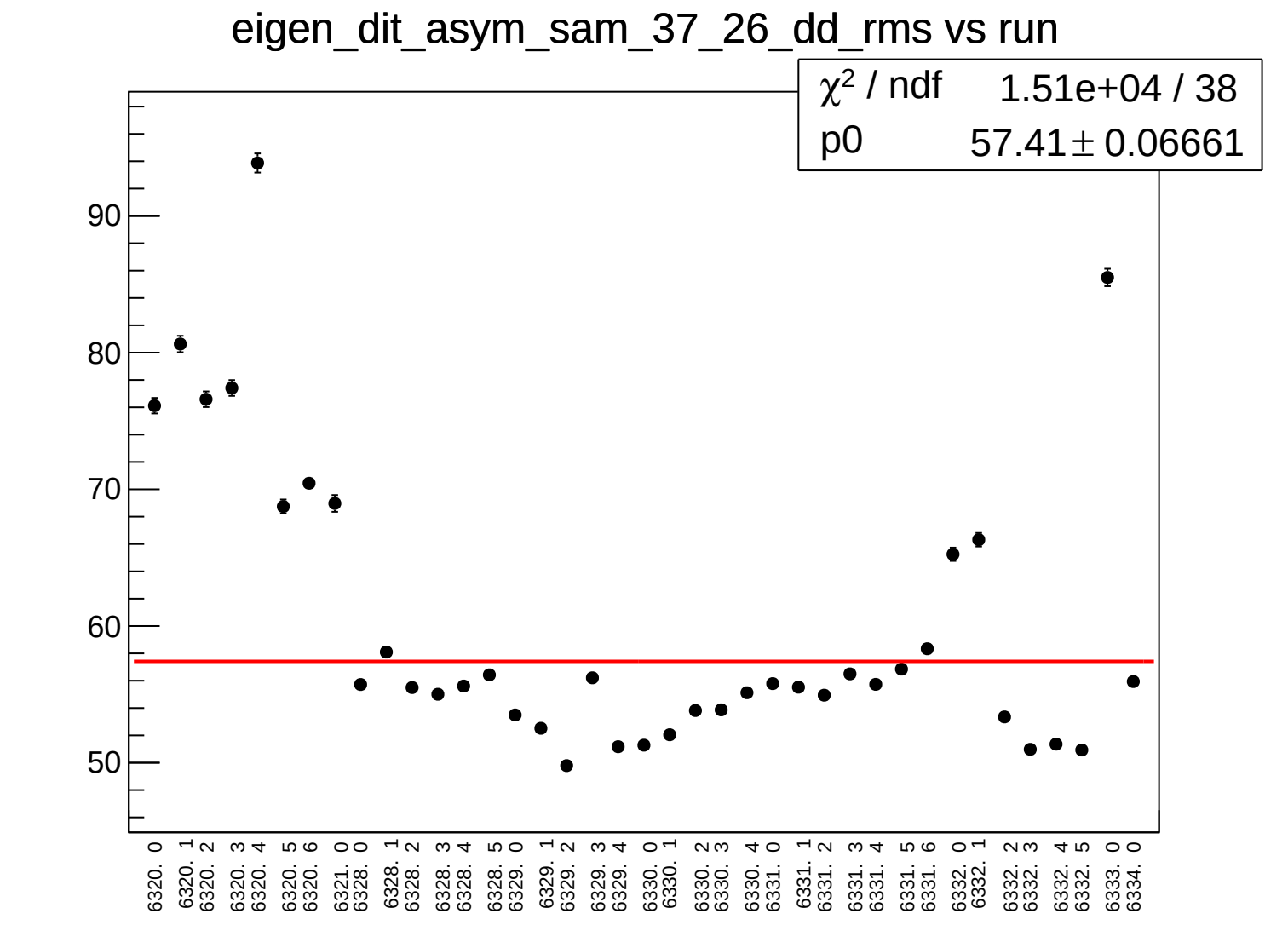
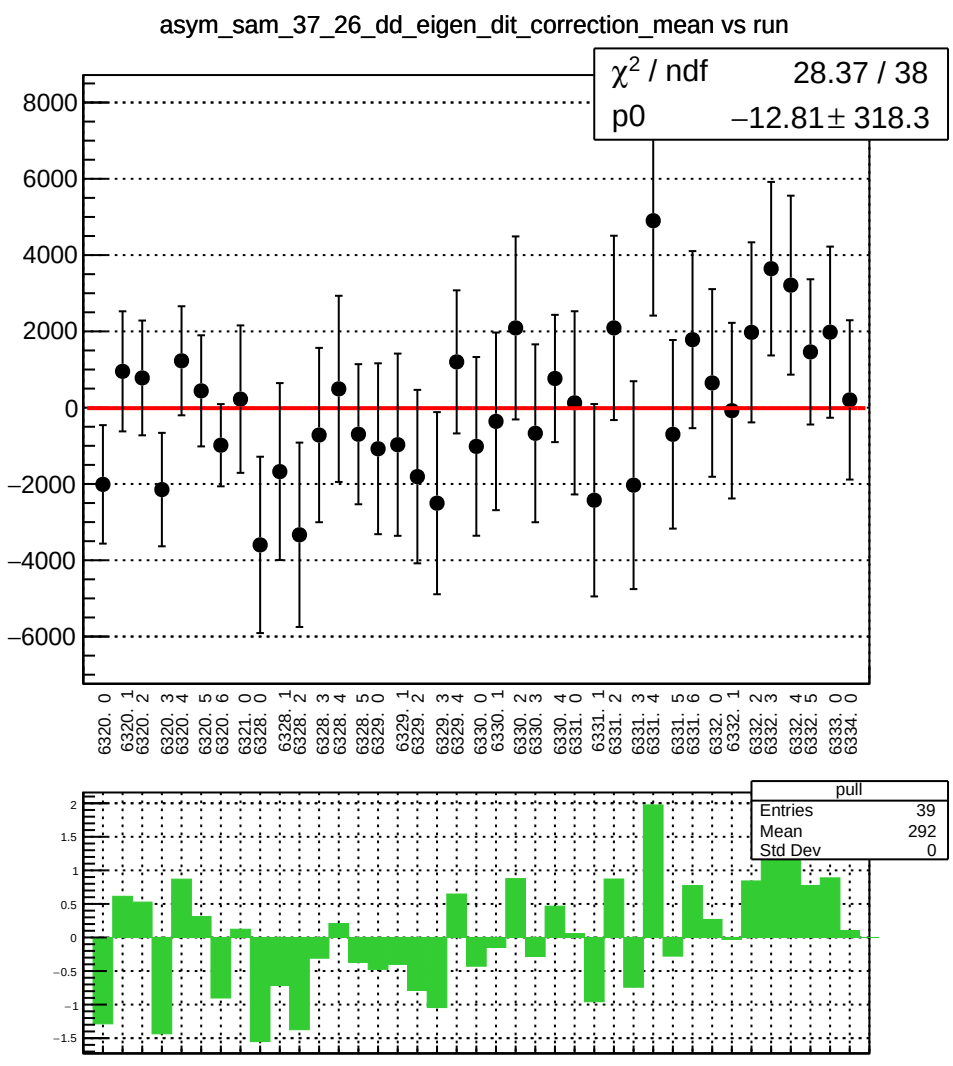
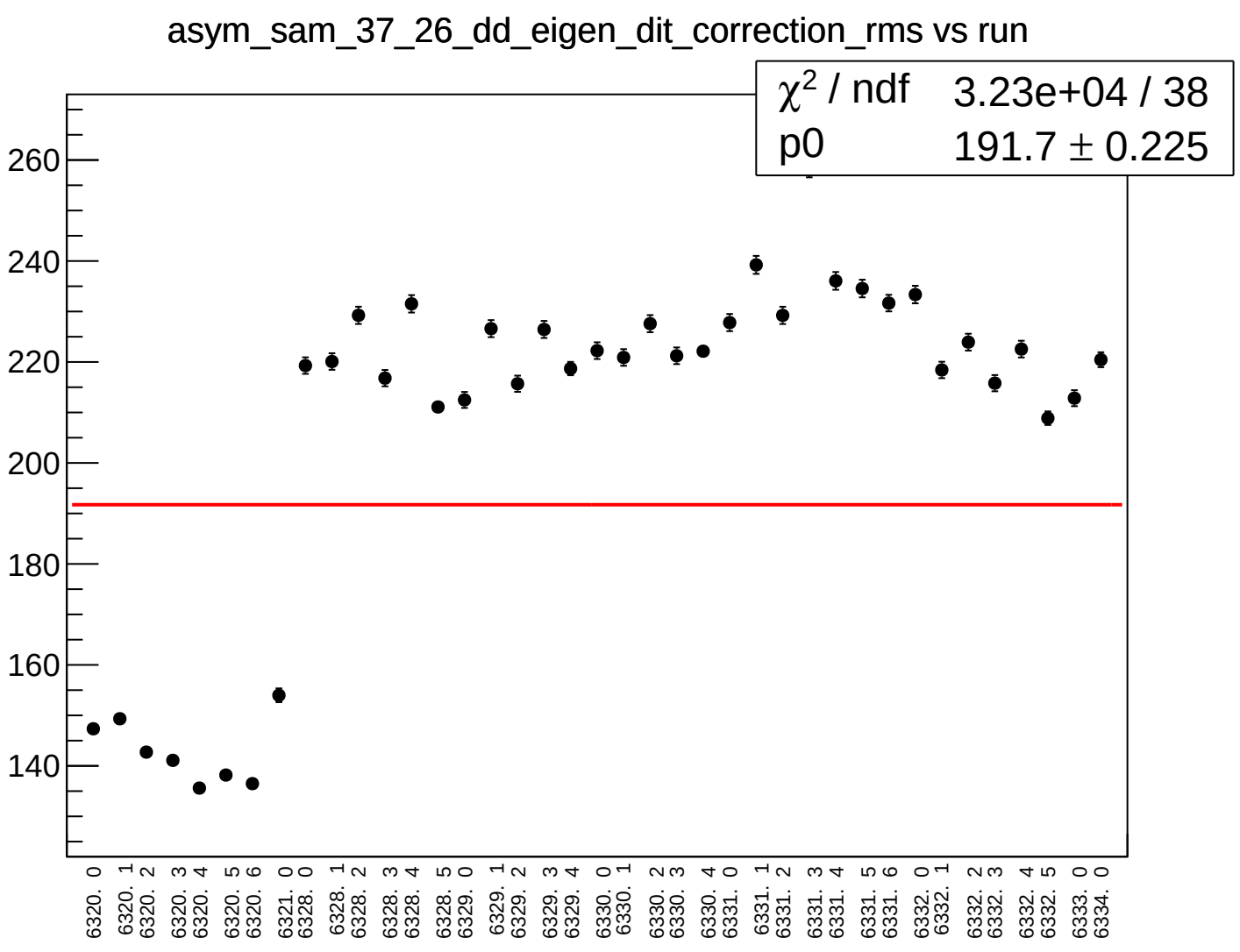
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

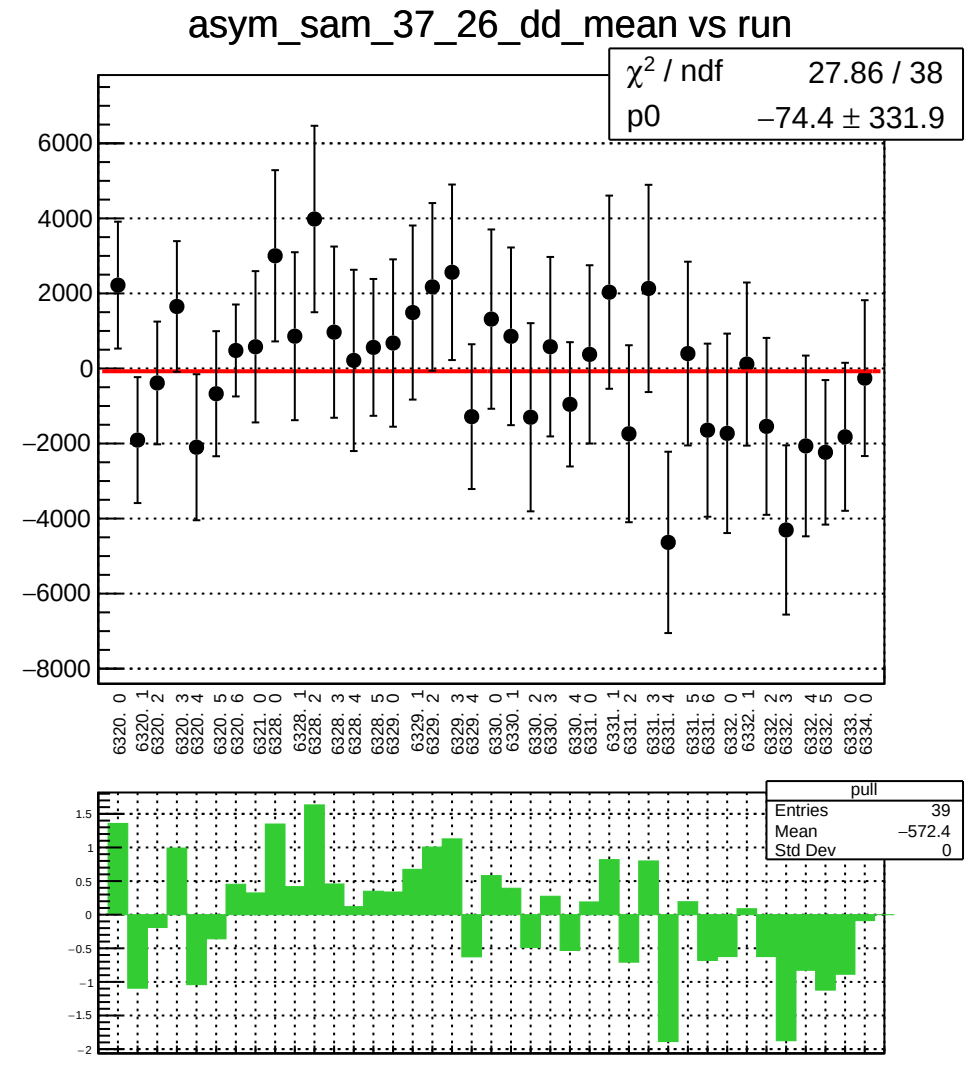

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 29.42 / 38
p0 14.8 ± 94.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −102.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

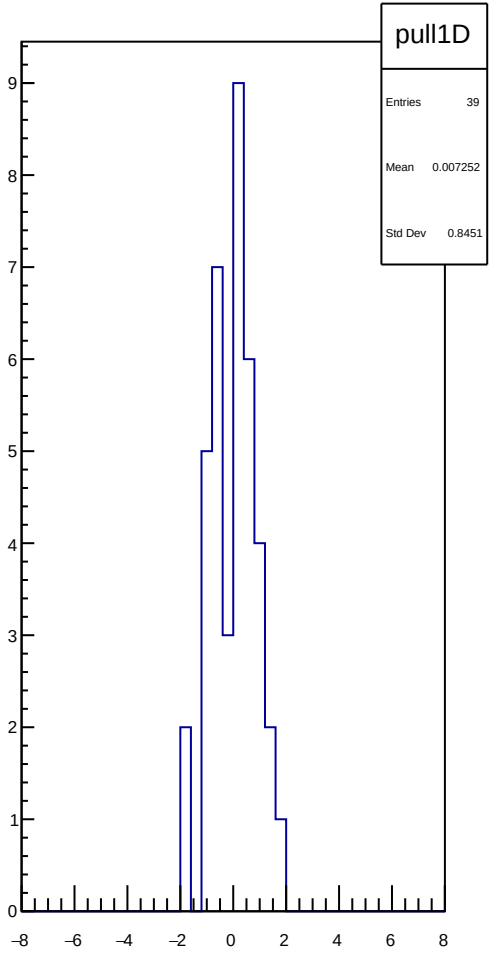

pull1D
Entries 39
Mean −0.005468
Std Dev 0.8685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

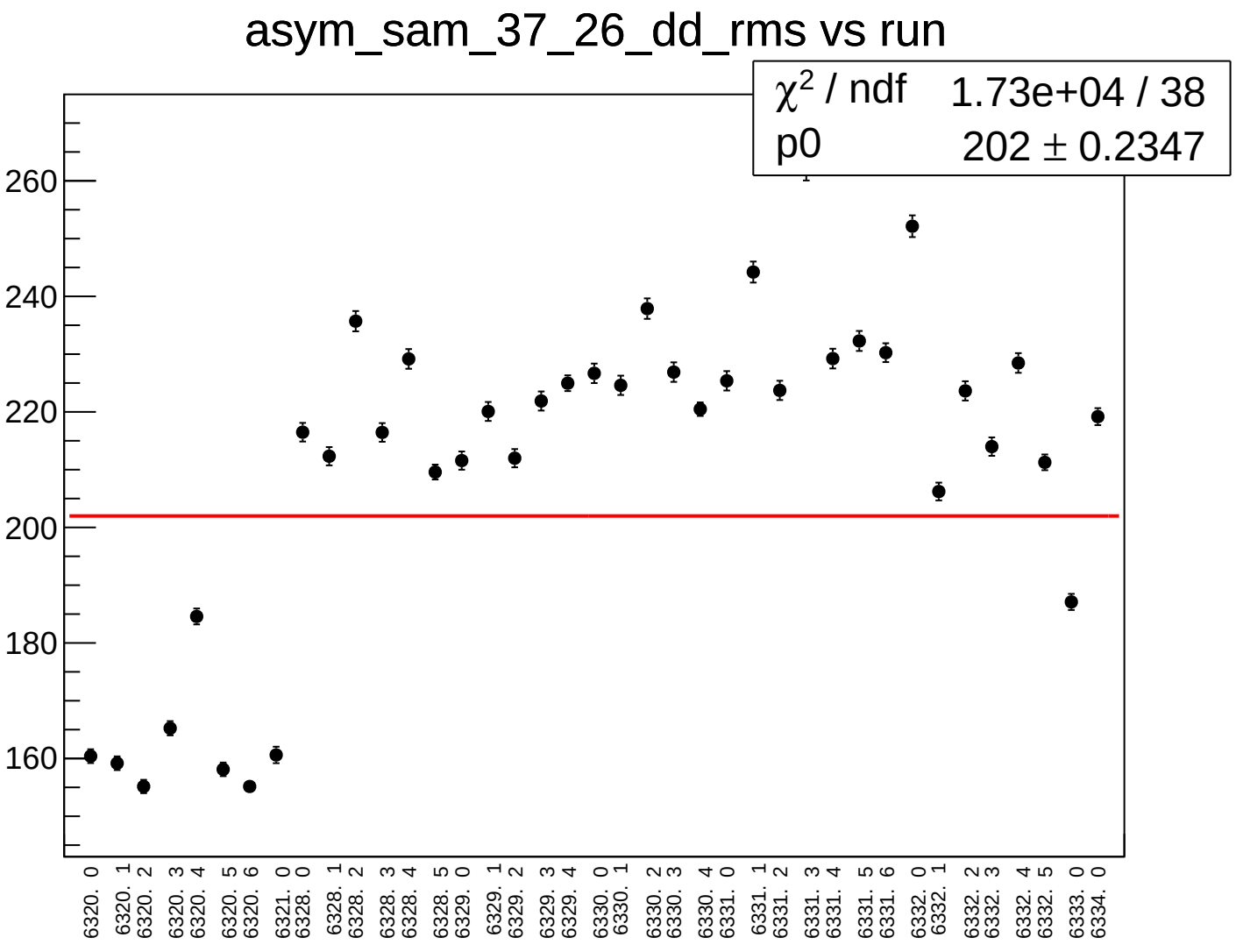

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.51e+04 / 38
p0 57.41 ± 0.06661
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

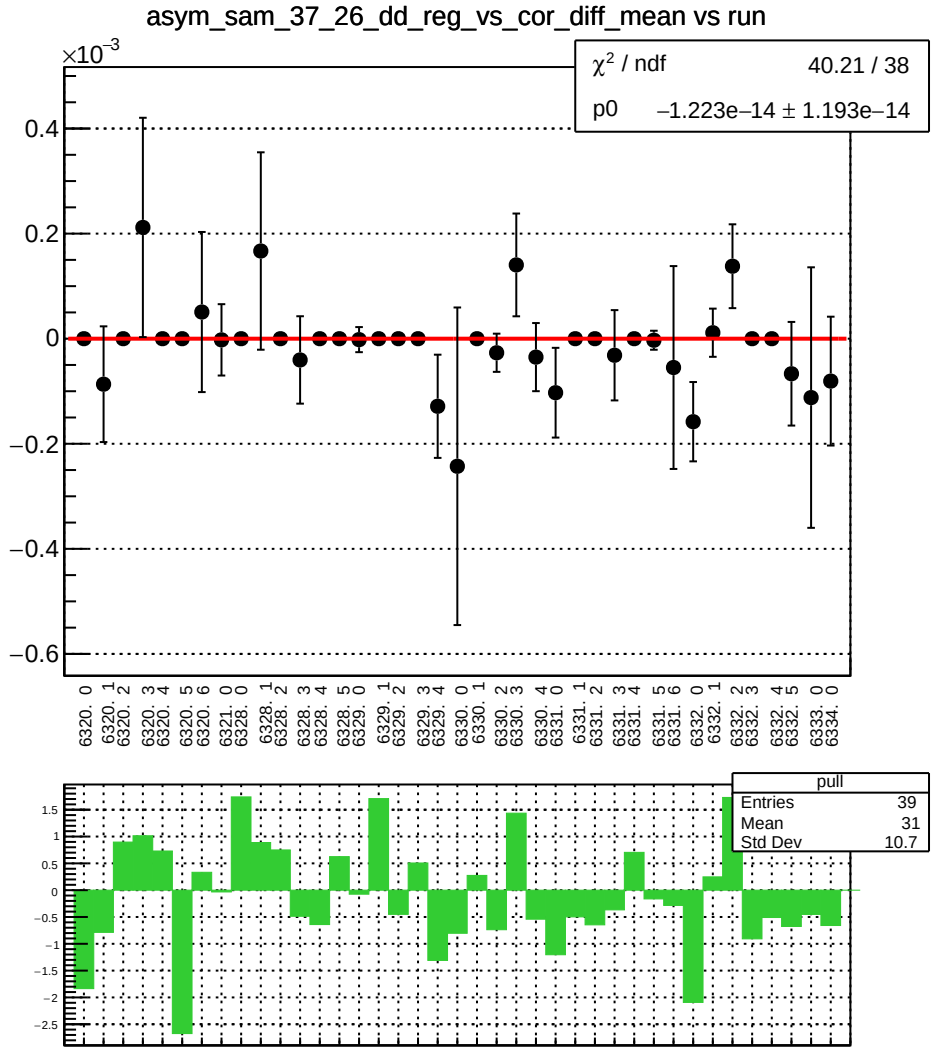

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 28.37 / 38
p0 −12.81 ± 318.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 292
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.017
Std Dev 0.8528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

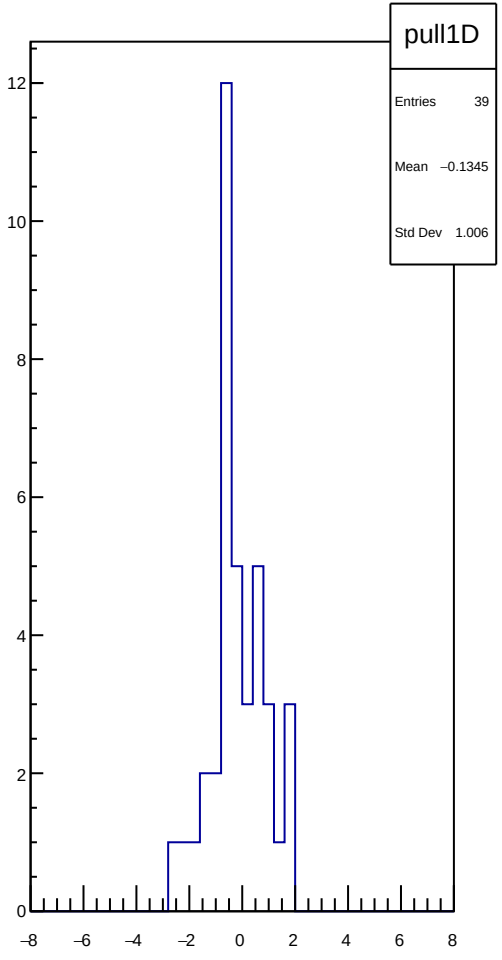

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.23e+04 / 38
p0 191.7 ± 0.225
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

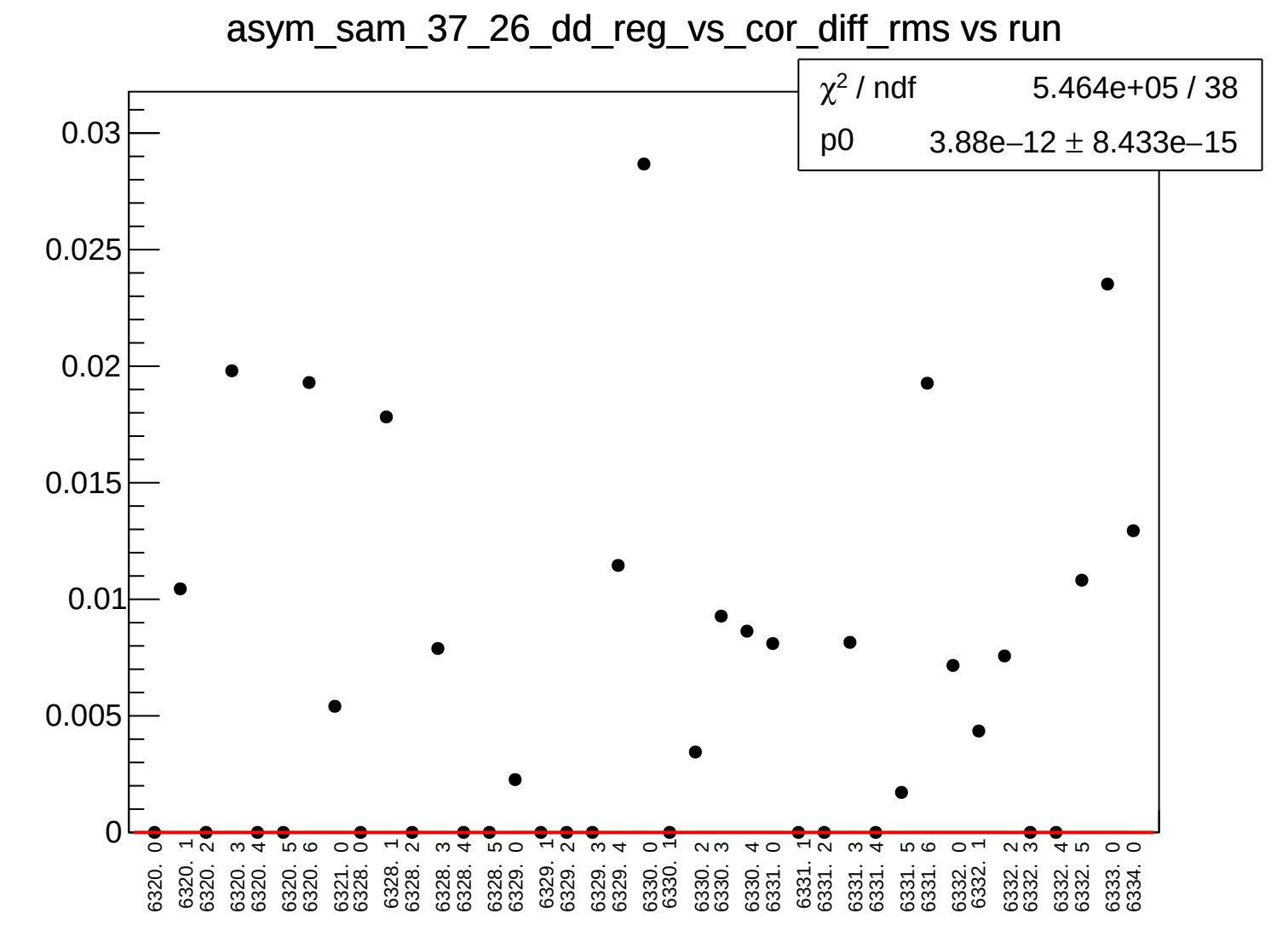

asym_sam_37_26_dd_mean vs run
χ² / ndf 27.86 / 38
p0 −74.4 ± 331.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −572.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

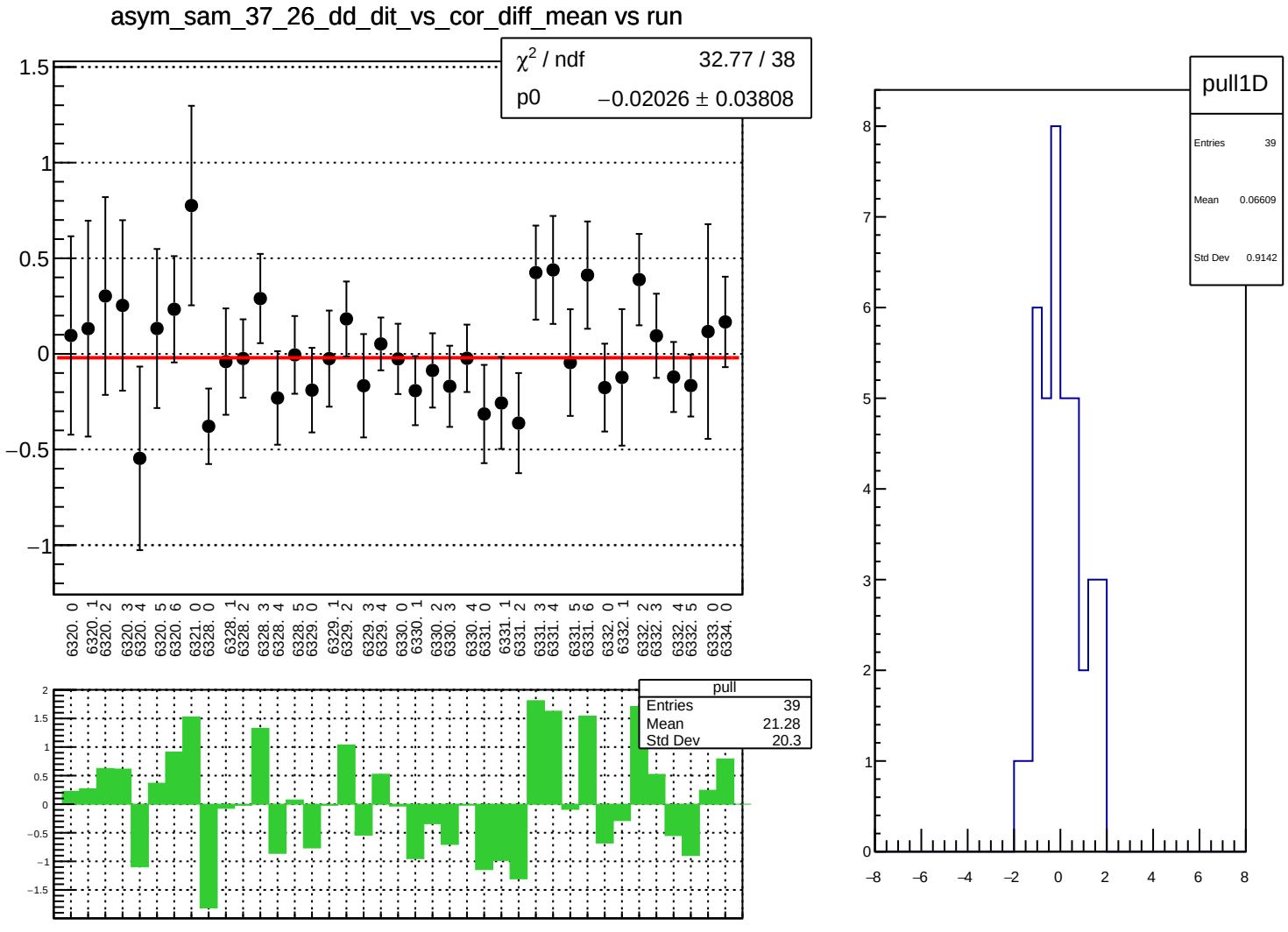

pull1D
Entries 39
Mean 0.007252
Std Dev 0.8451
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

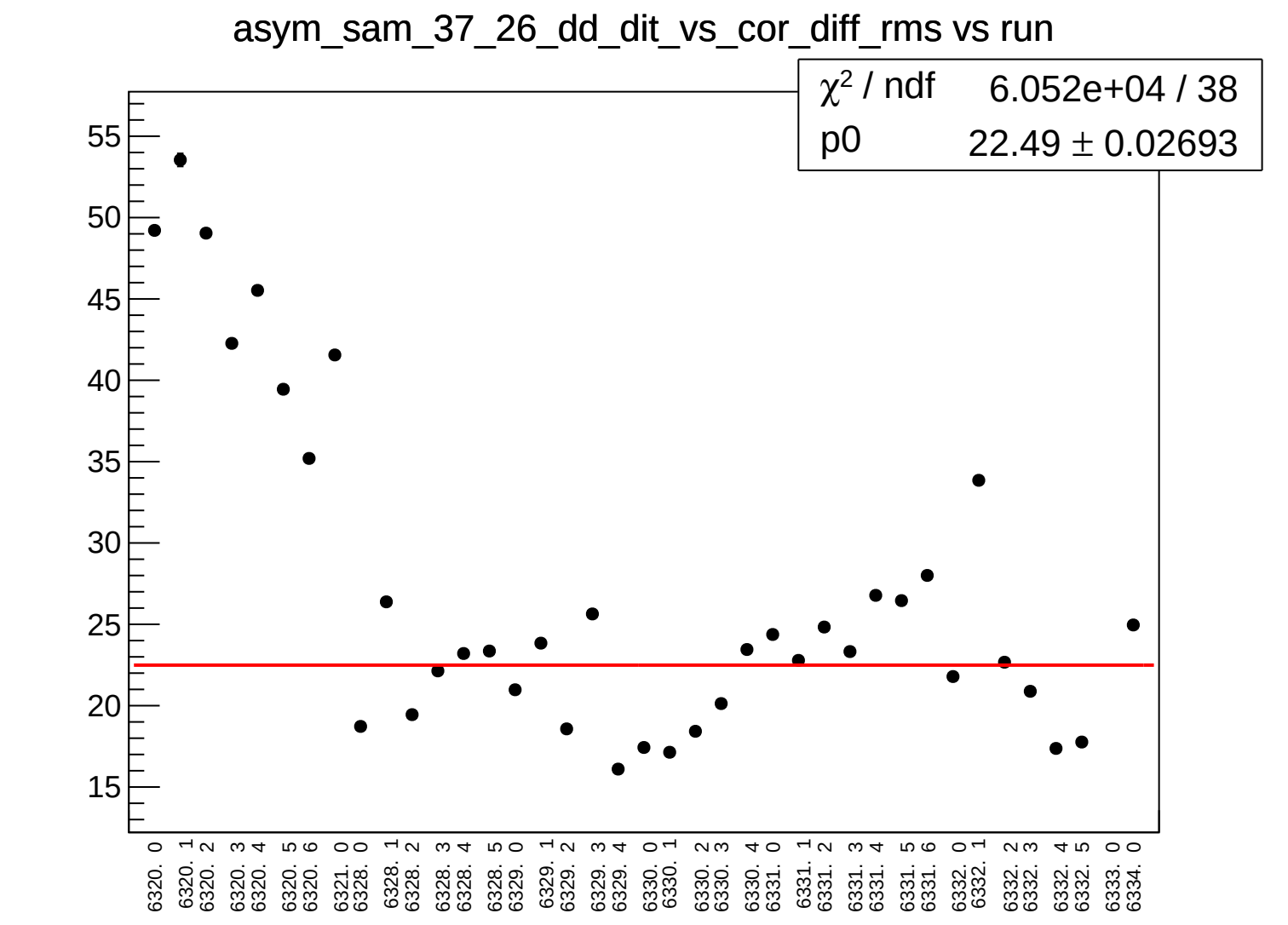

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.73e+04 / 38
p0 202 ± 0.2347
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

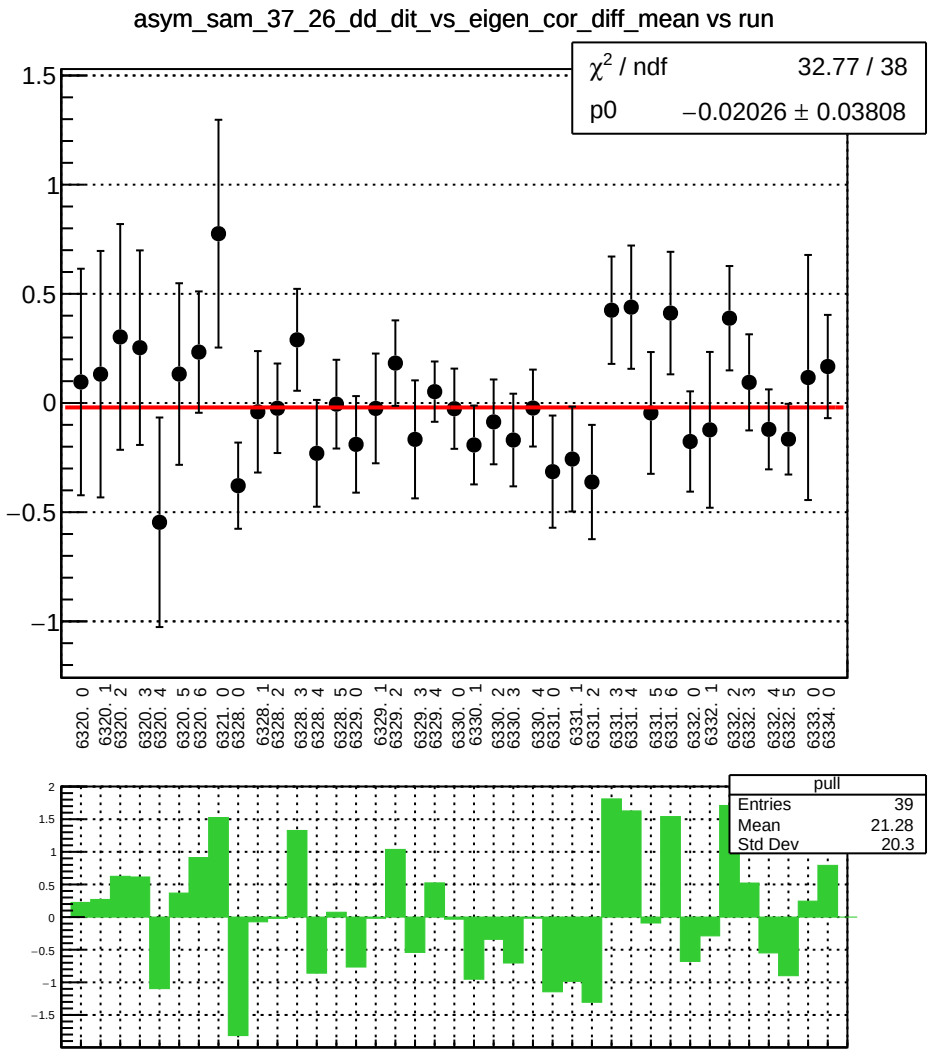

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 40.21 / 38
p0 −1.223e−14 ± 1.193e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 31
Std Dev 10.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

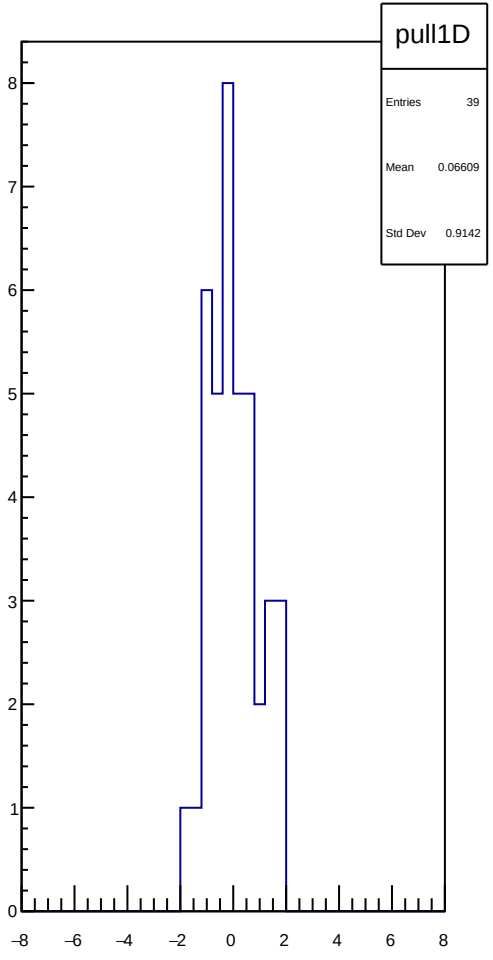

pull1D
Entries 39
Mean −0.1345
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

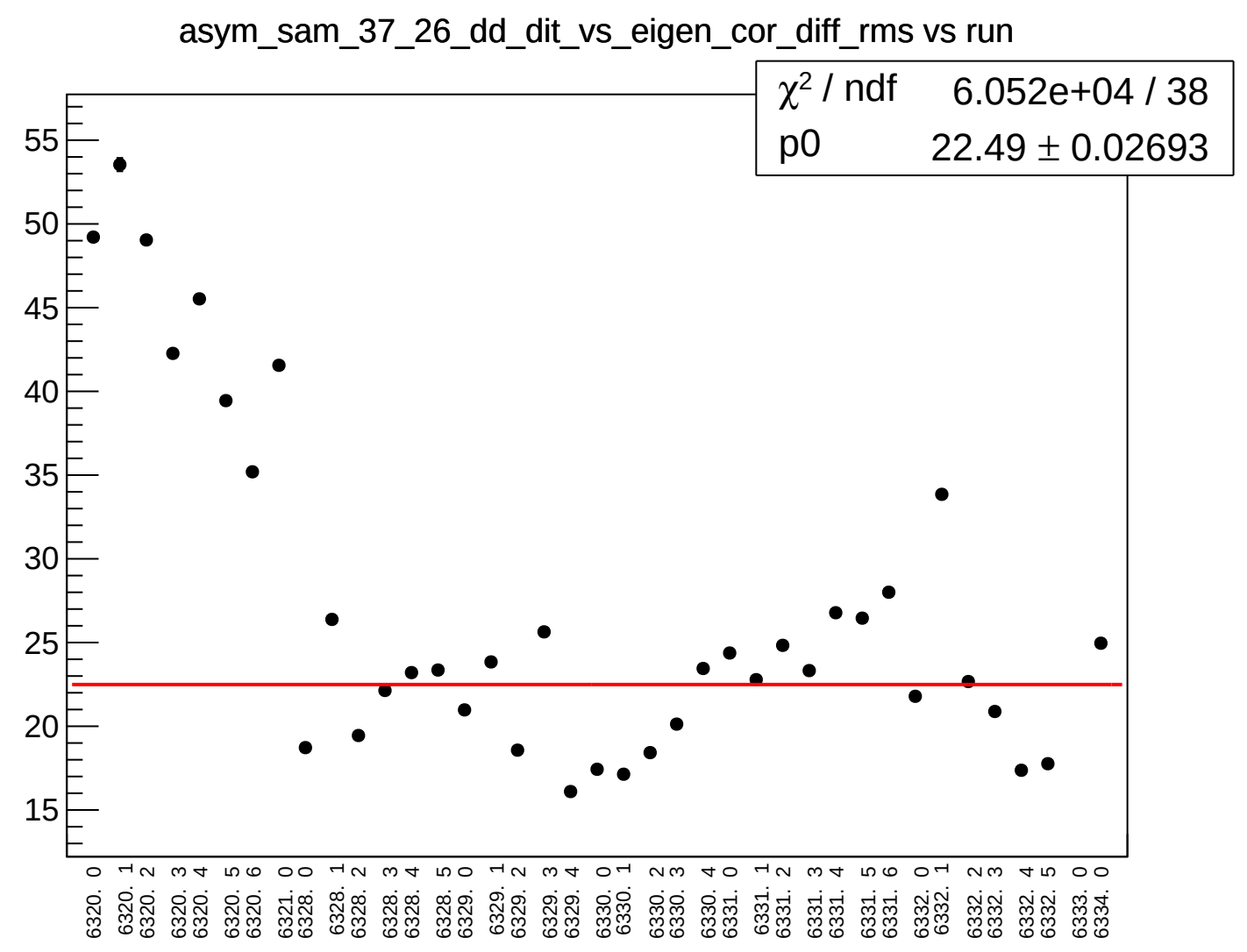

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.464e+05 / 38
p0 3.88e−12 ± 8.433e−15
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

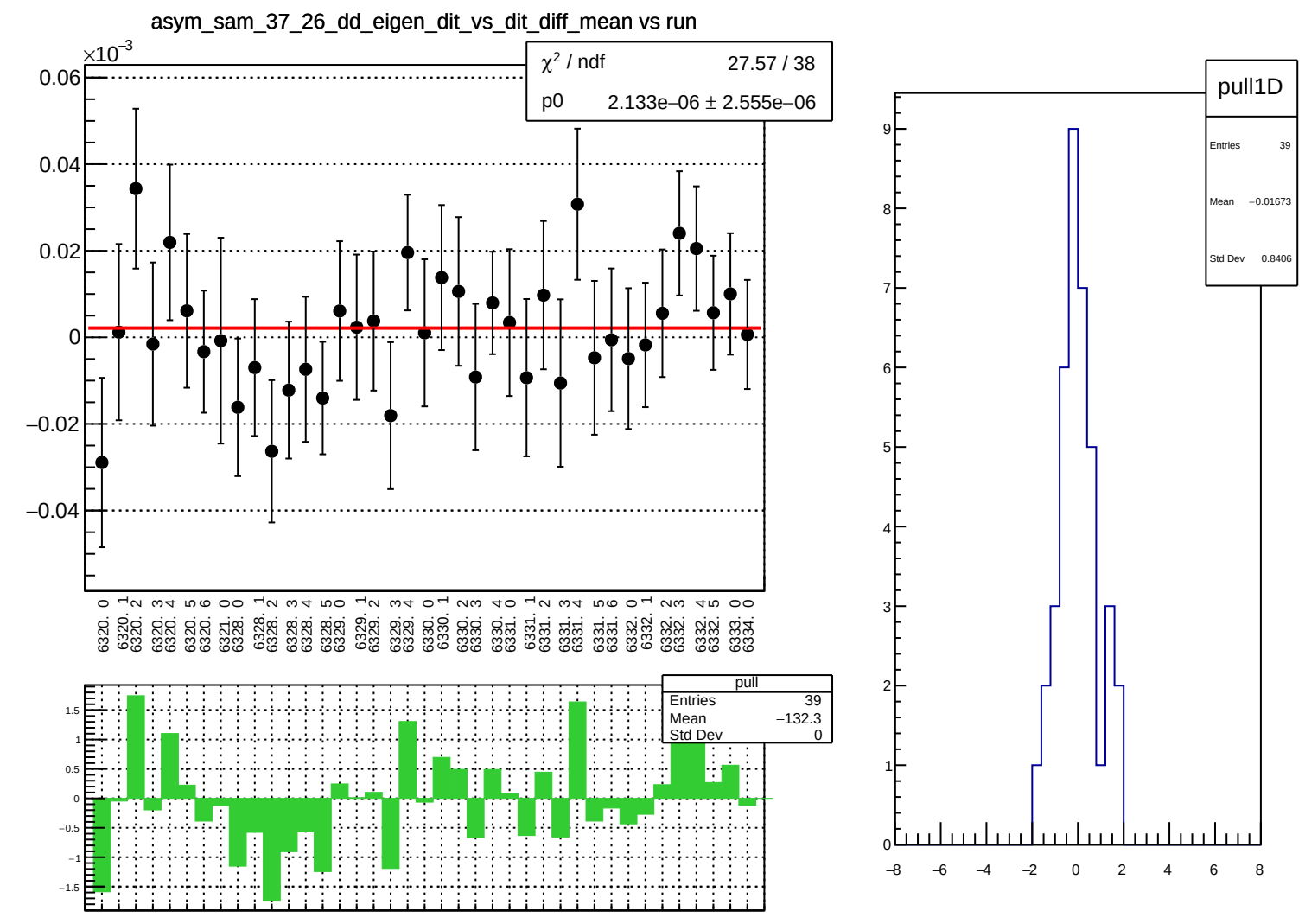

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.77 / 38
p0 −0.02026 ± 0.03808
pull
Entries 39
Mean 21.28
Std Dev 20.3
pull1D
Entries 39
Mean 0.06609
Std Dev 0.9142

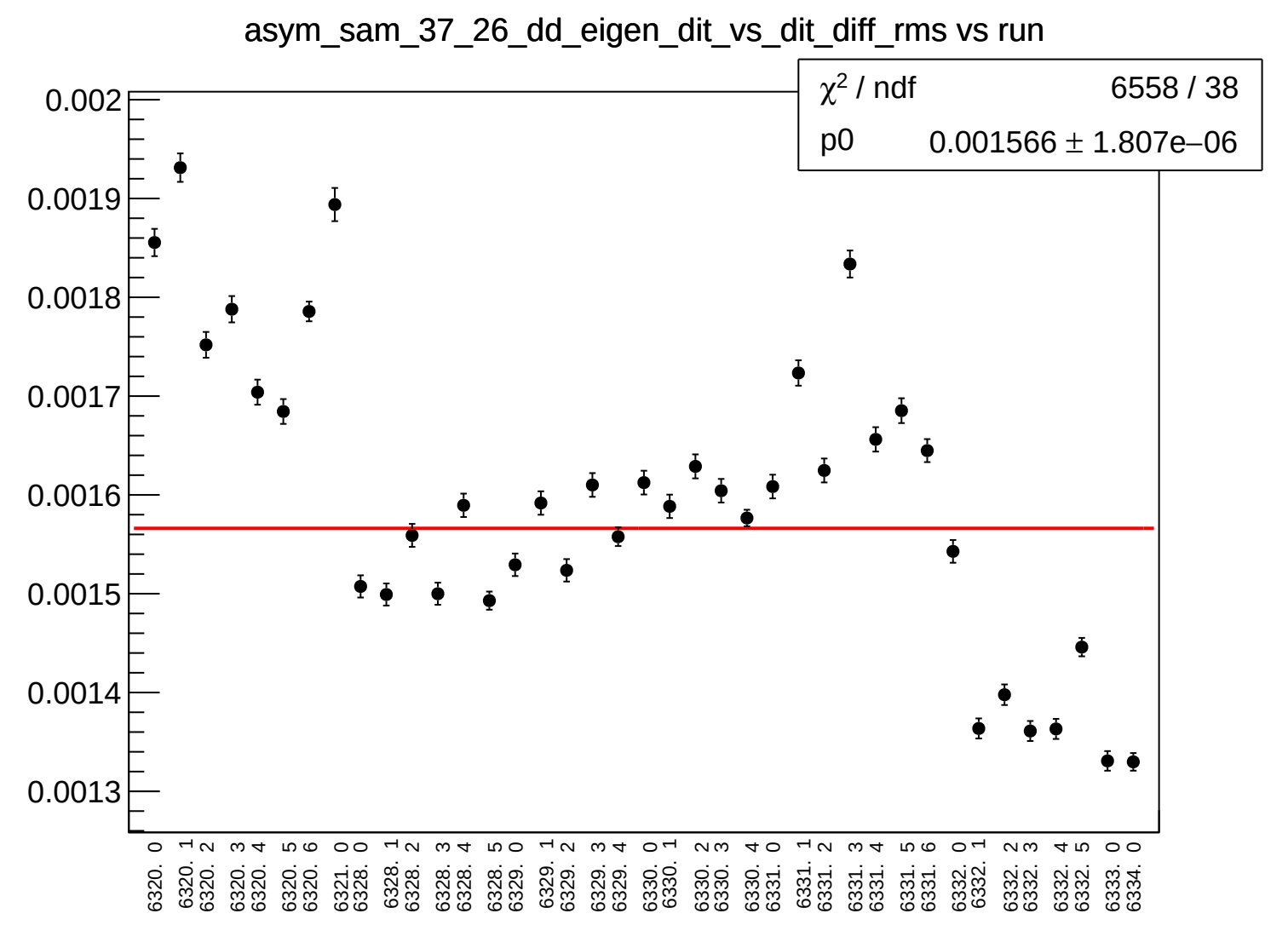

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.052e+04 / 38
p0 22.49 ± 0.02693
55
50
45
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

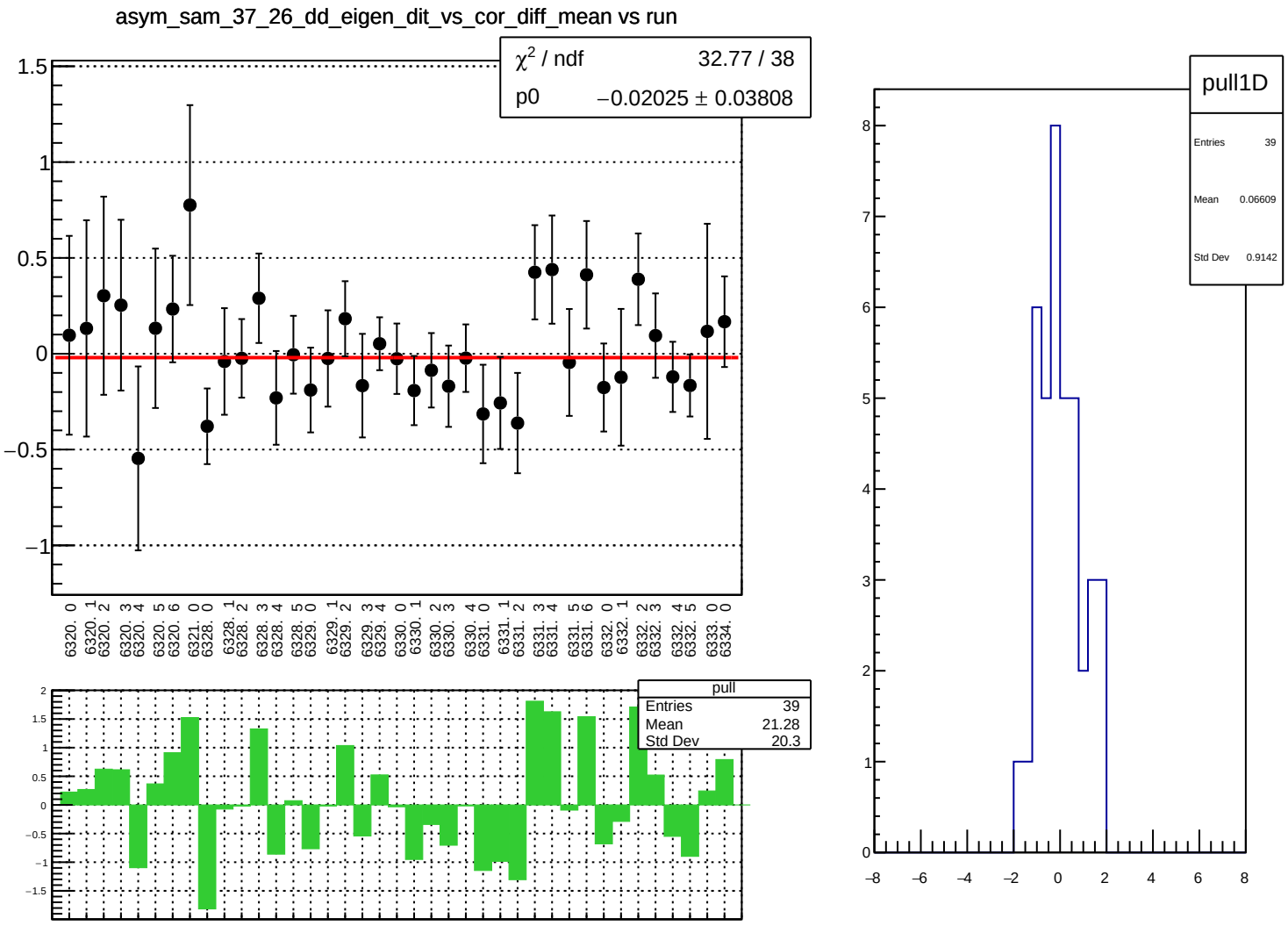

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.77 / 38
p0 −0.02026 ± 0.03808
pull
Entries 39
Mean 21.28
Std Dev 20.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

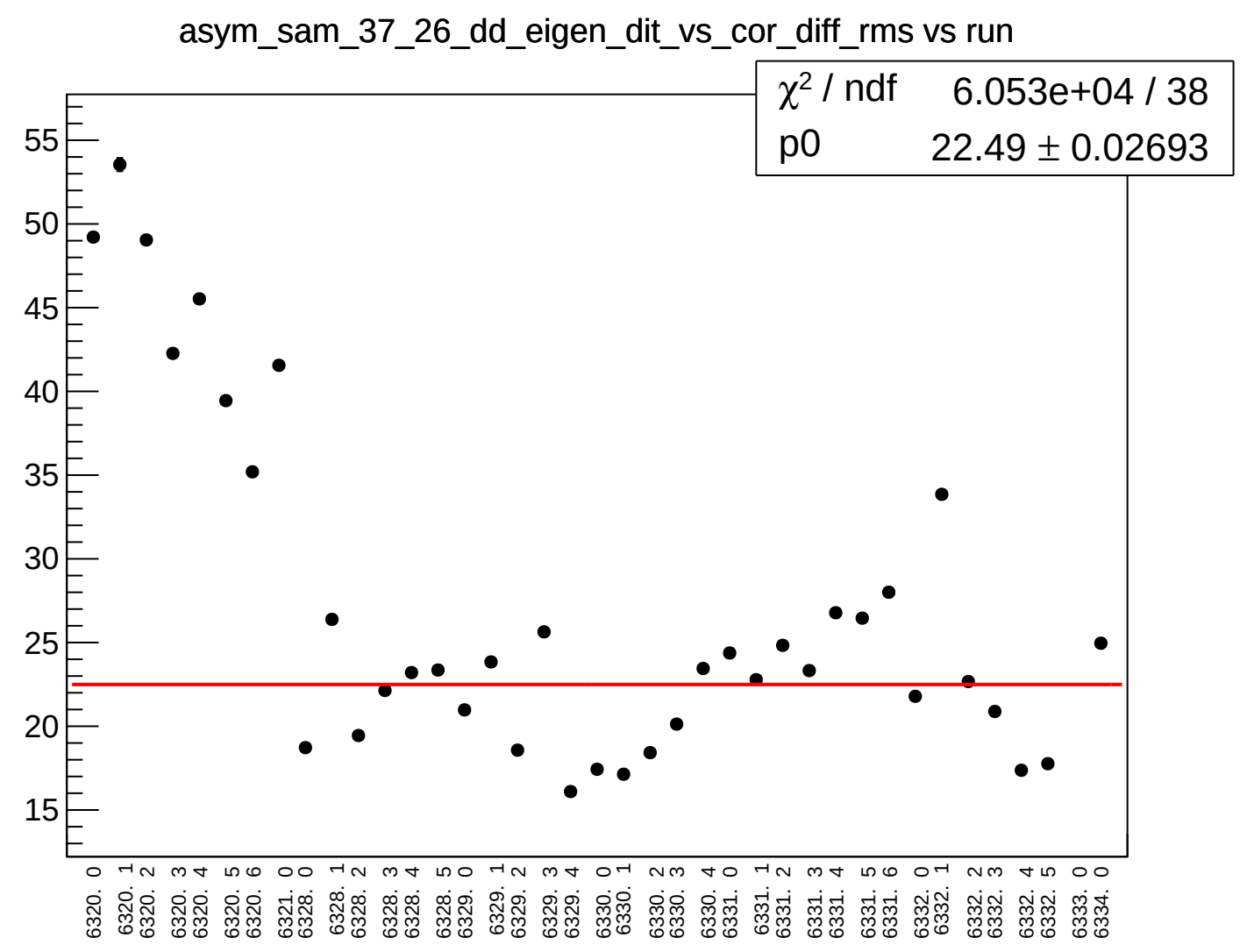

pull1D
Entries 39
Mean 0.06609
Std Dev 0.9142

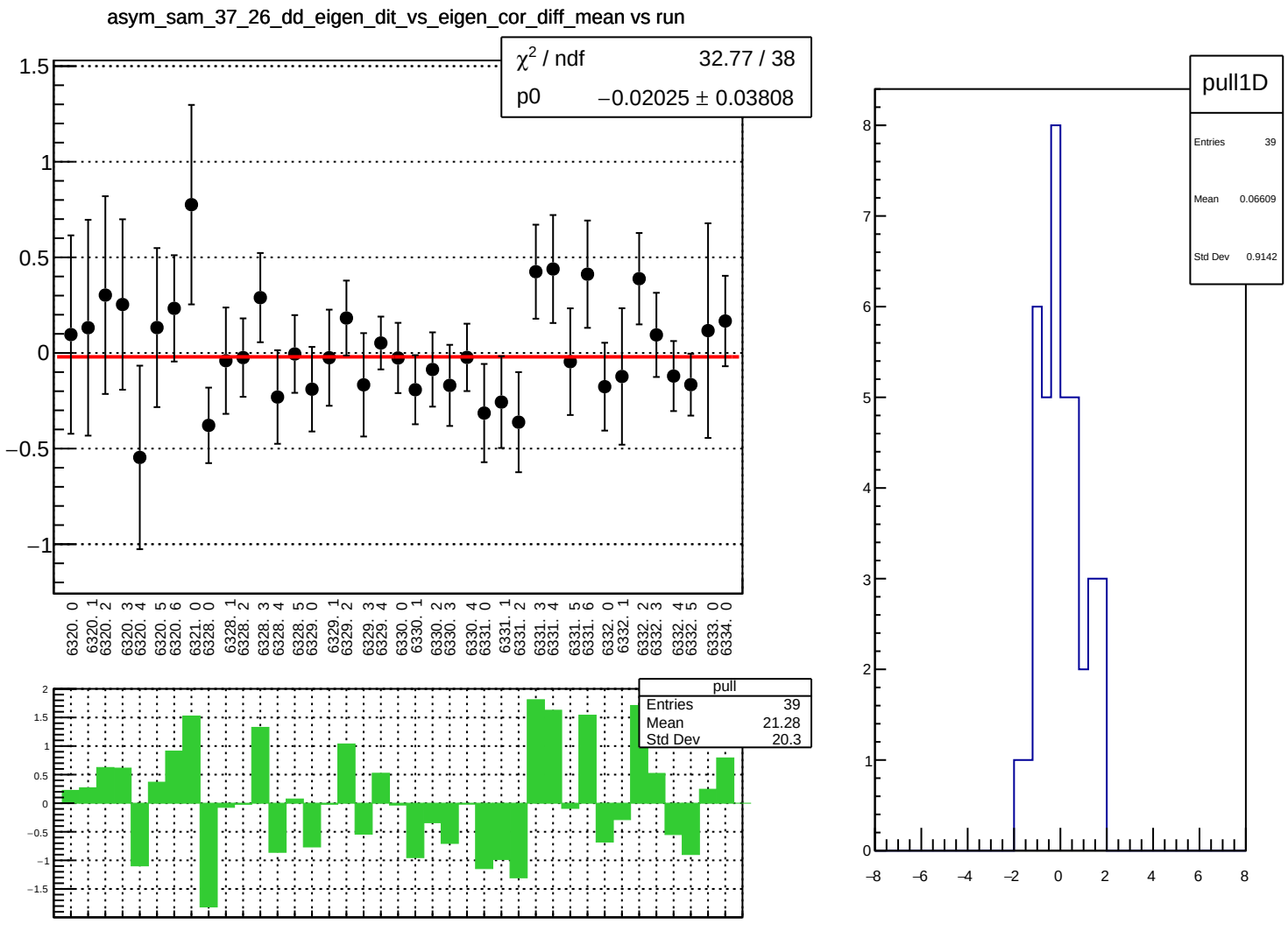

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.052e+04 / 38
p0 22.49 ± 0.02693
55
50
45
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

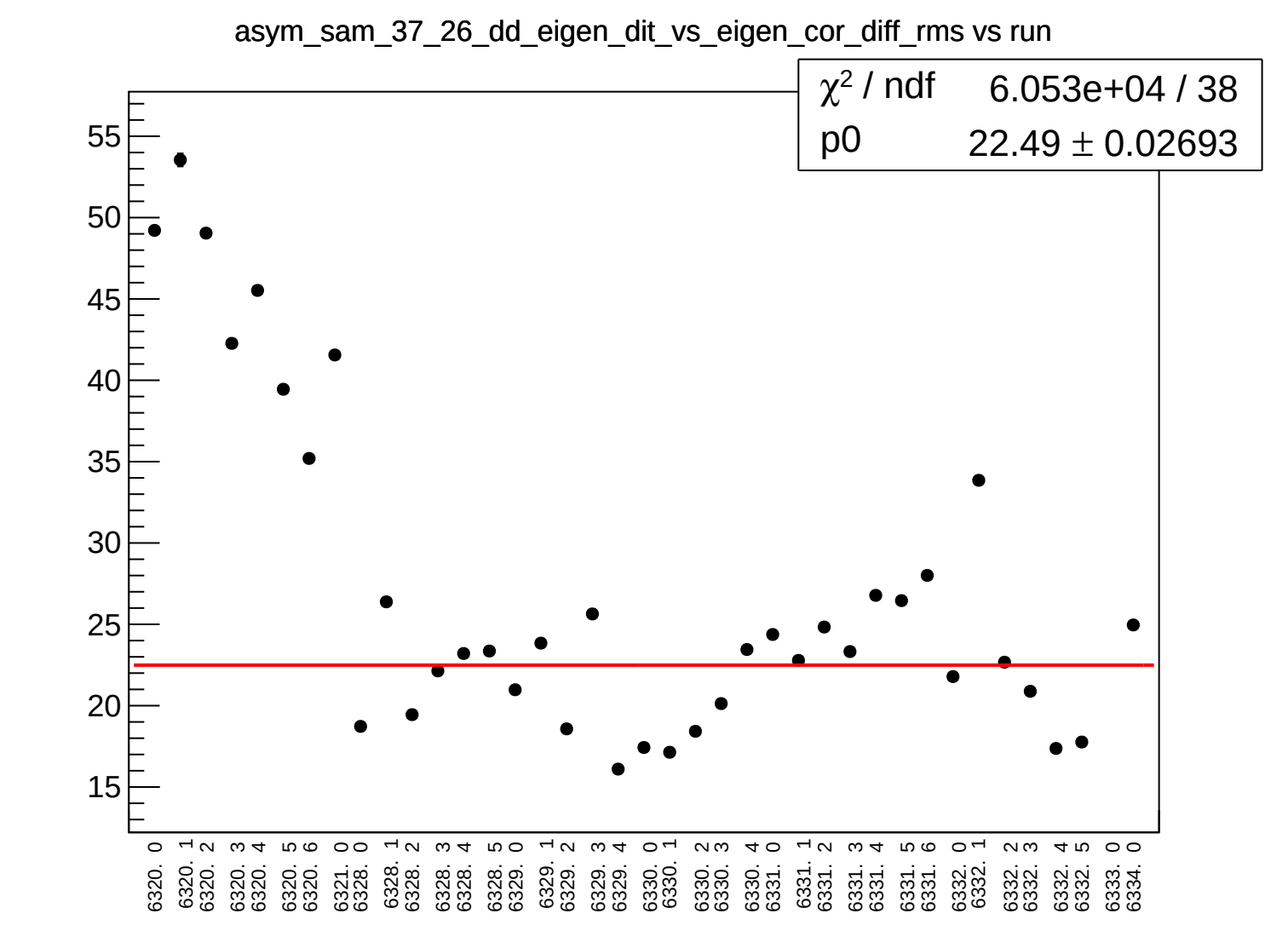

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.57 / 38
p0 2.133e−06 ± 2.555e−06
0.06
0.04
0.02
0
−0.02
−0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −132.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01673
Std Dev 0.8406
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

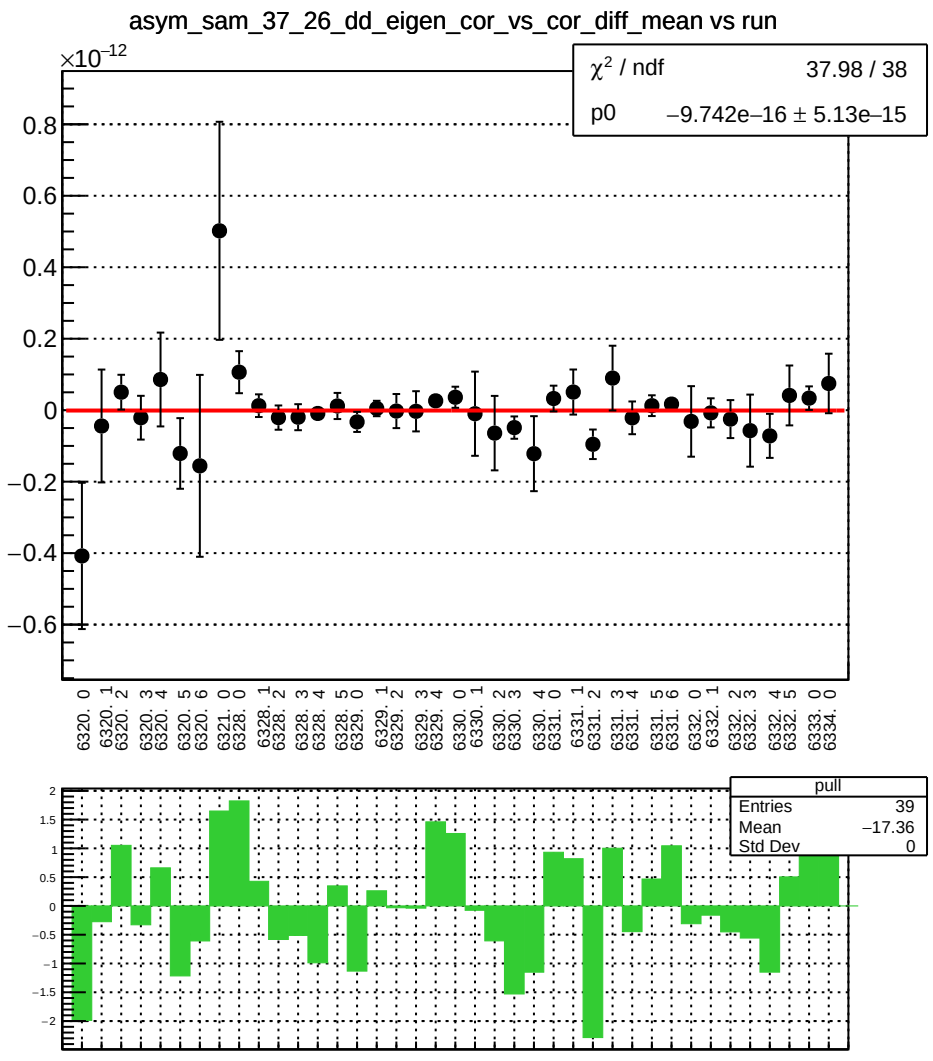

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6558 / 38
p0 0.001566 ± 1.807e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

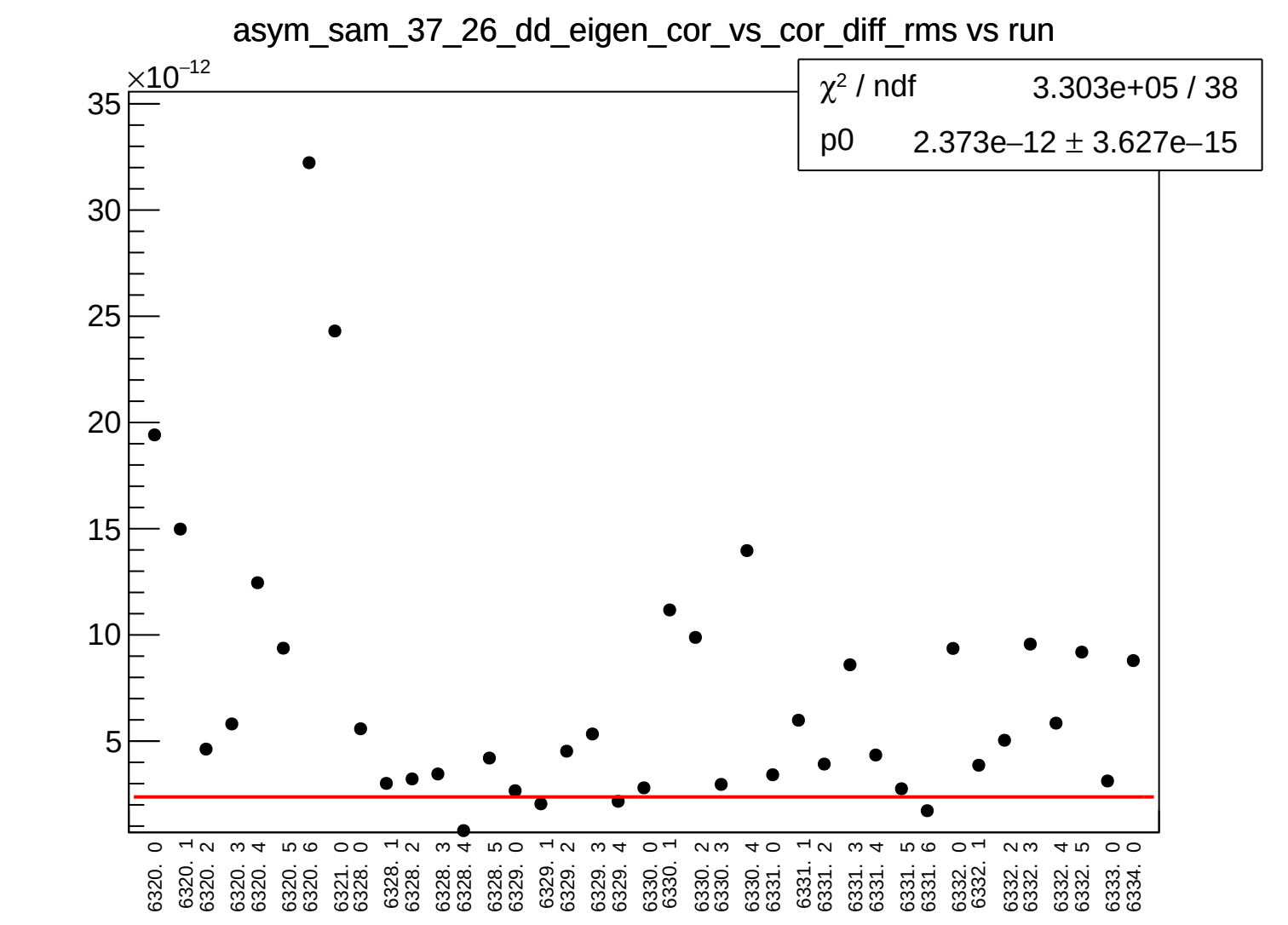

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.77 / 38
p0 −0.02025 ± 0.03808
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.28
Std Dev 20.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.06609
Std Dev 0.9142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

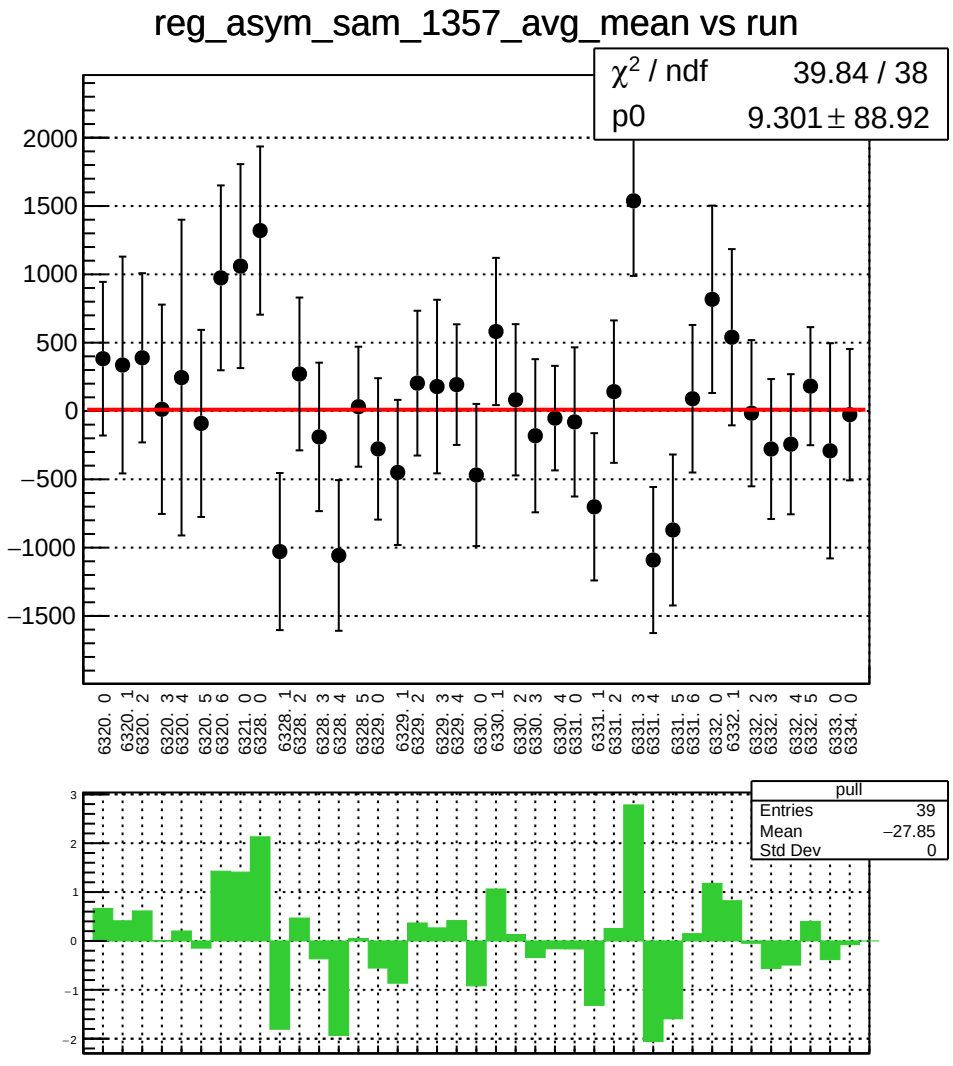

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.053e+04 / 38
p0 22.49 ± 0.02693
55
50
45
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

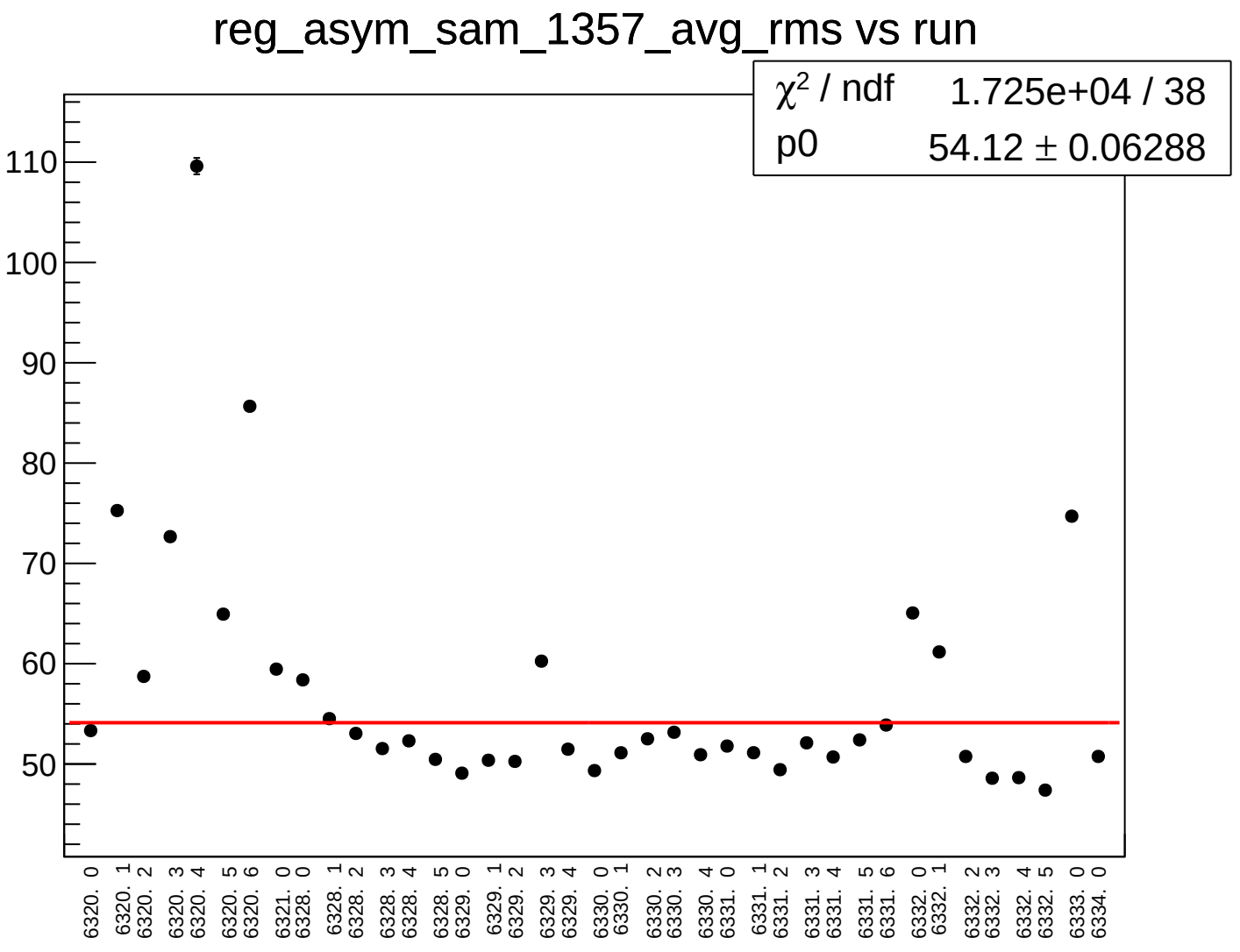

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.77 / 38
p0 −0.02025 ± 0.03808
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 21.28
Std Dev 20.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.06609
Std Dev 0.9142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

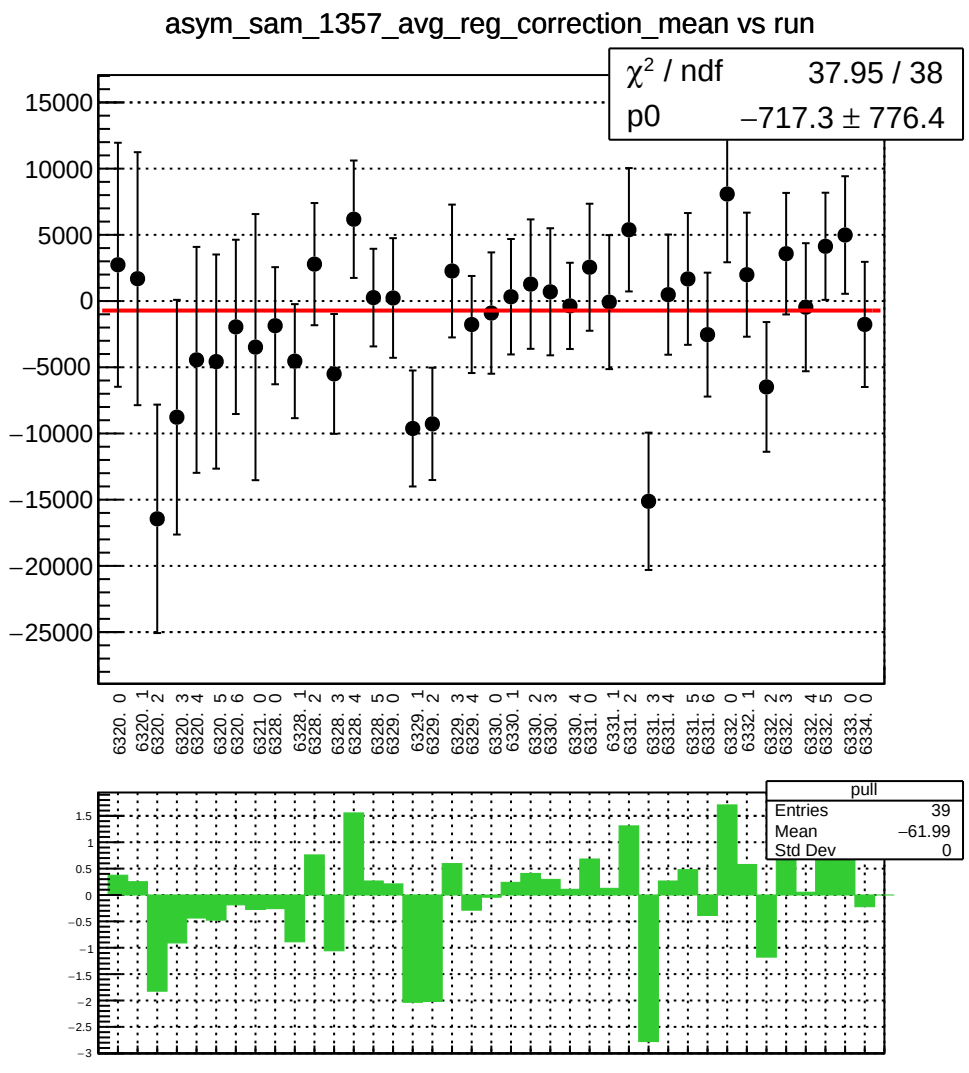

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.053e+04 / 38
p0 22.49 ± 0.02693
55
50
45
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

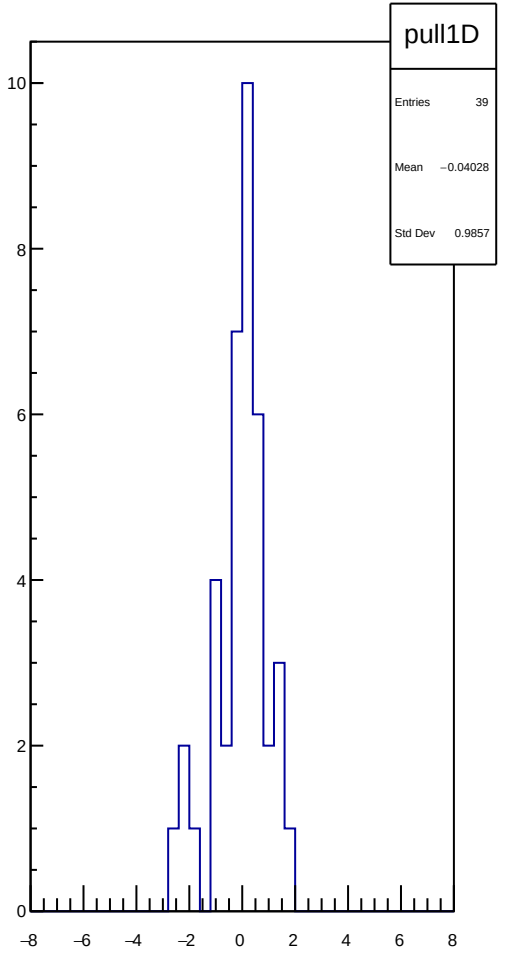

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.98 / 38
p0 −9.742e−16 ± 5.13e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −17.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01919
Std Dev 0.9867
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

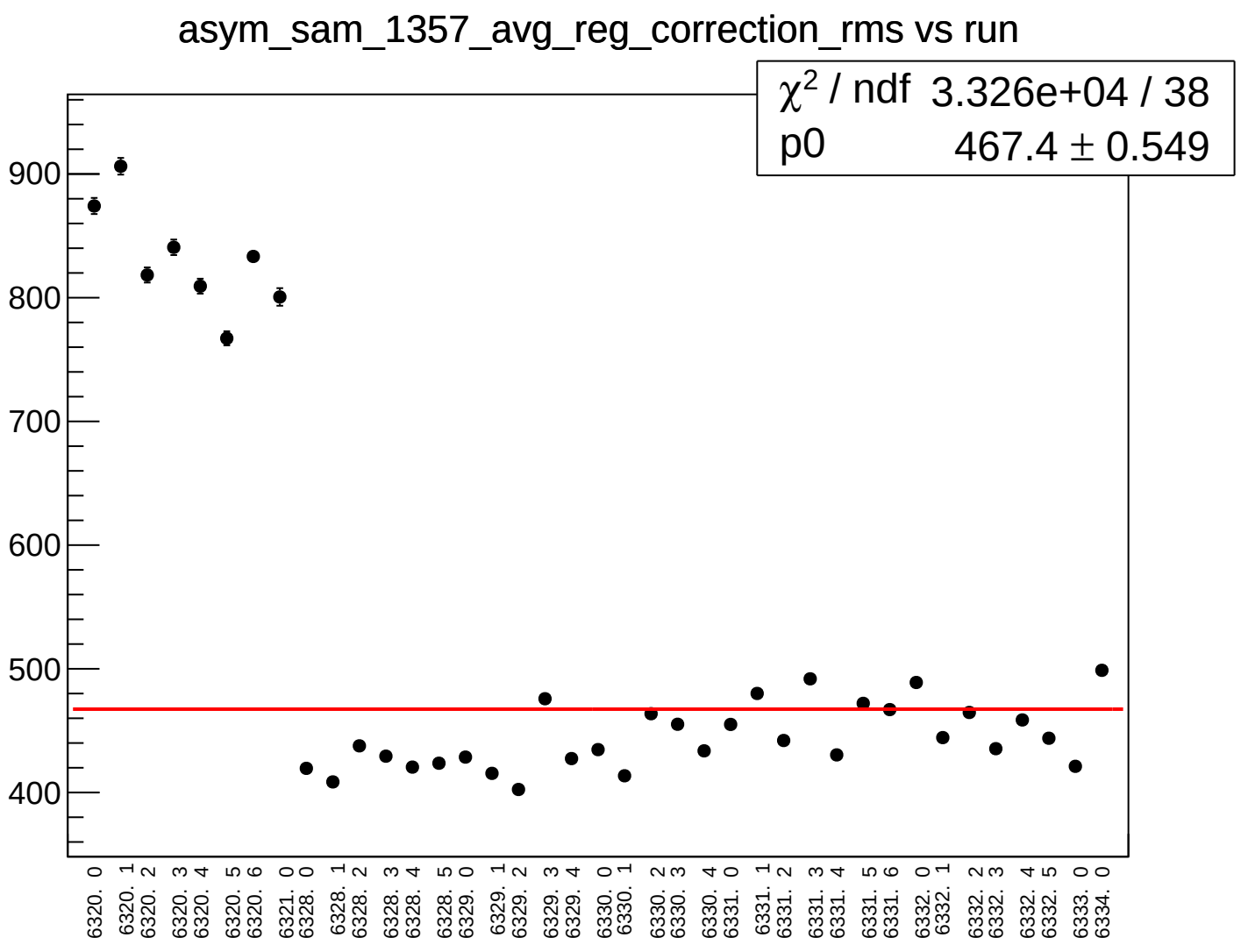

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.303e+05 / 38
p0 2.373e−12 ± 3.627e−15
35
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

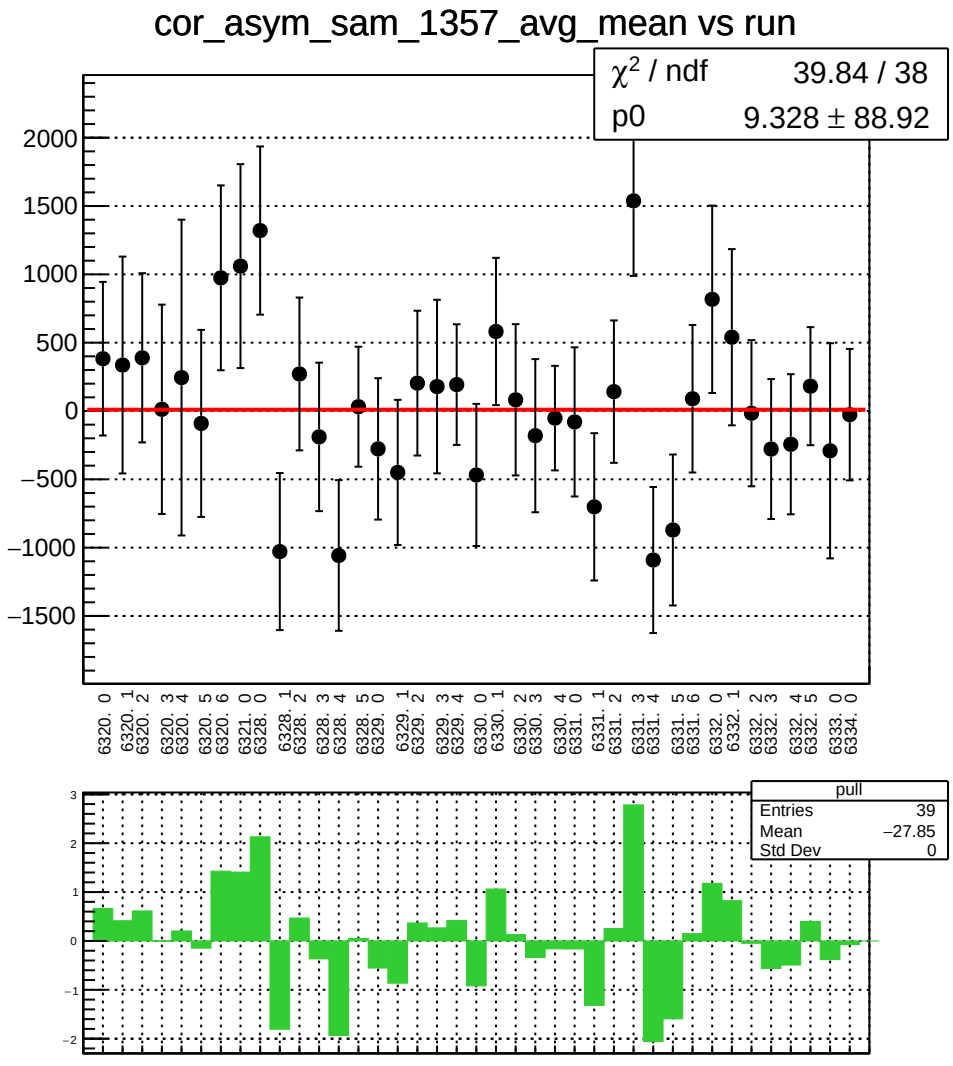

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 39.84 / 38
p0 9.301 ± 88.92
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03668
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

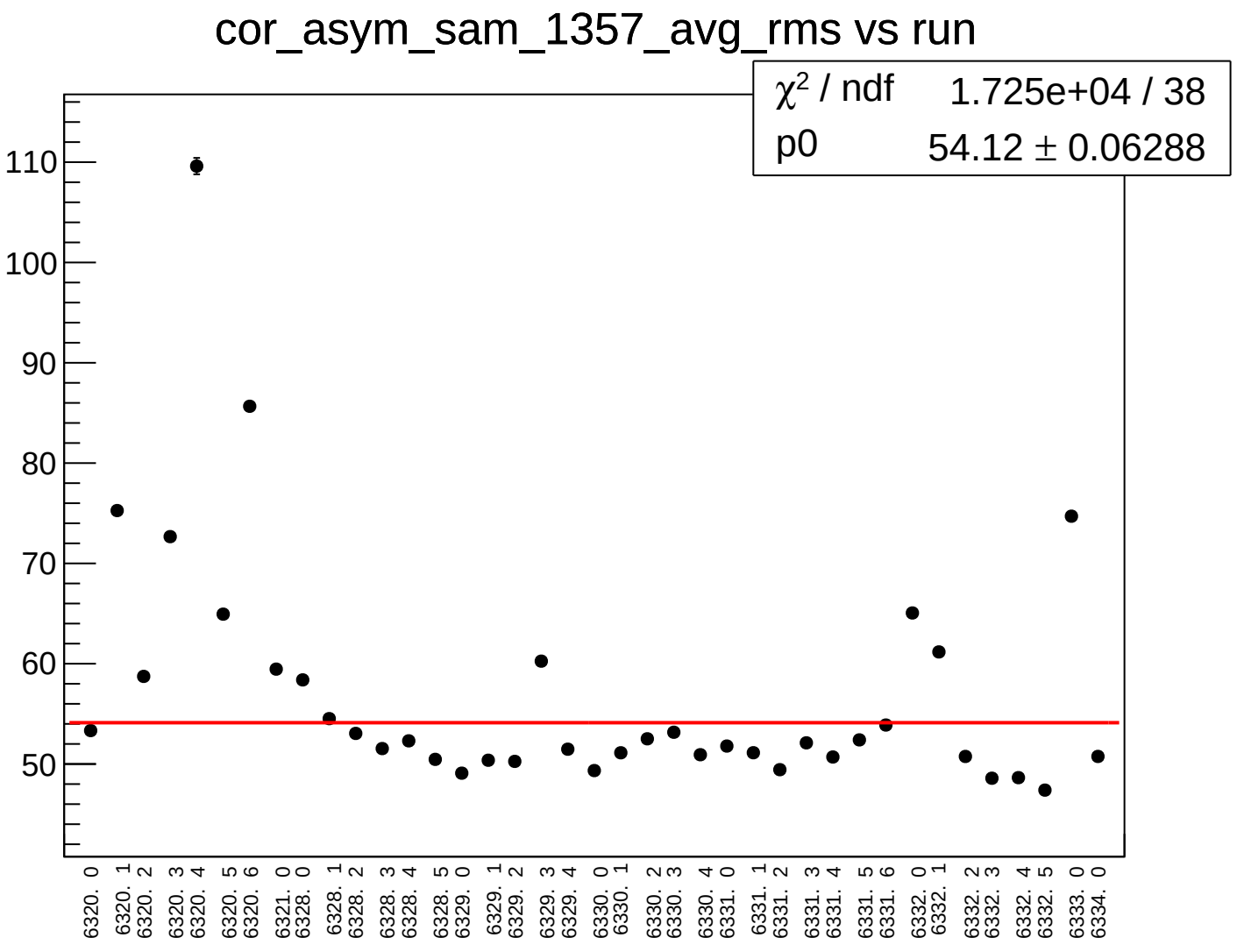

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.725e+04 / 38
p0 54.12 ± 0.06288
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

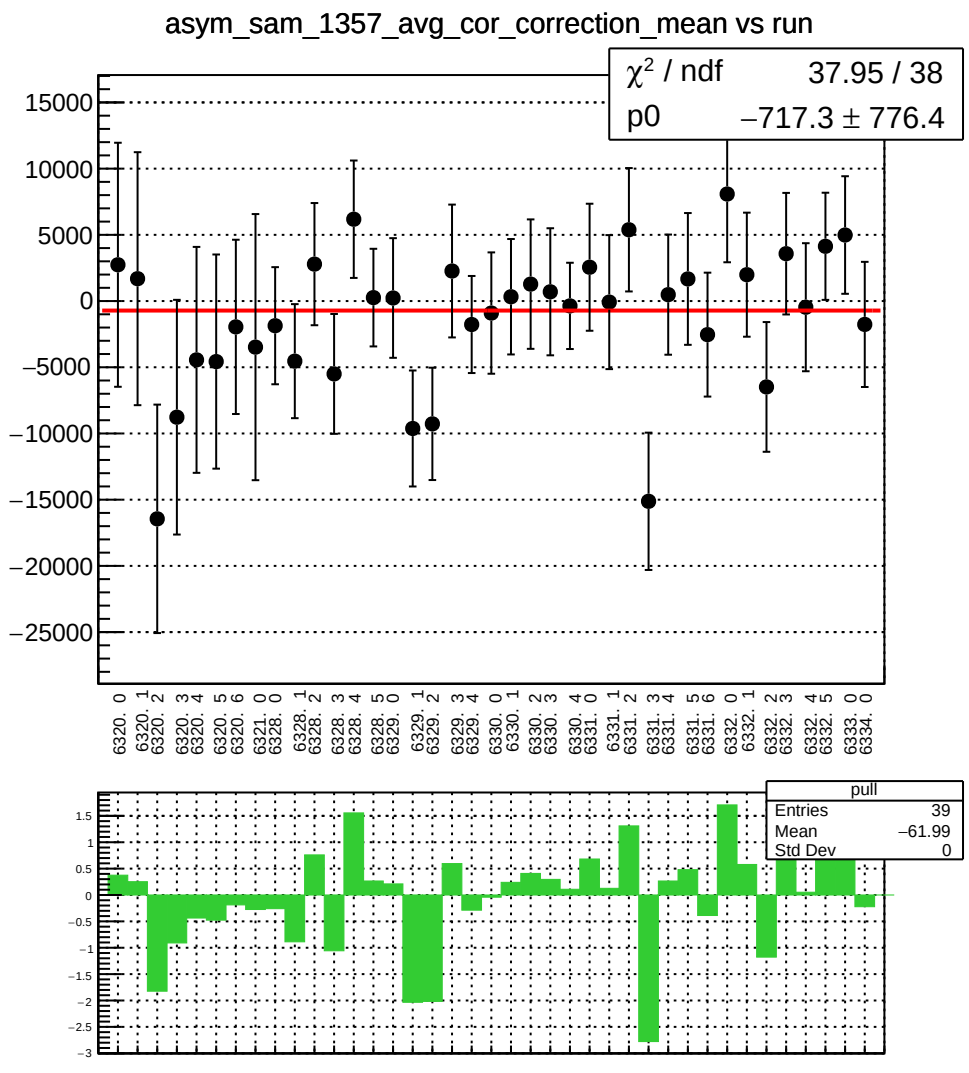

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 37.95 / 38
p0 −717.3 ± 776.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −61.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

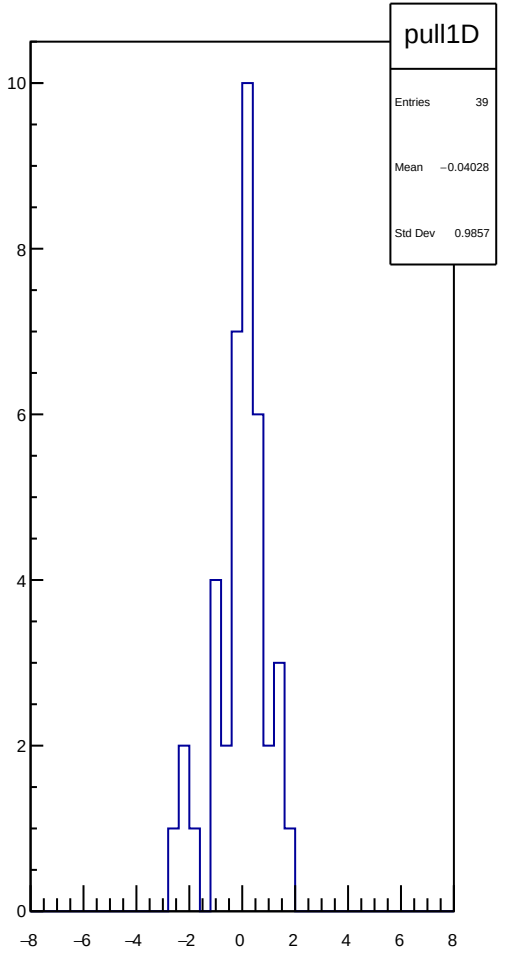

pull1D
Entries 39
Mean −0.04028
Std Dev 0.9857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

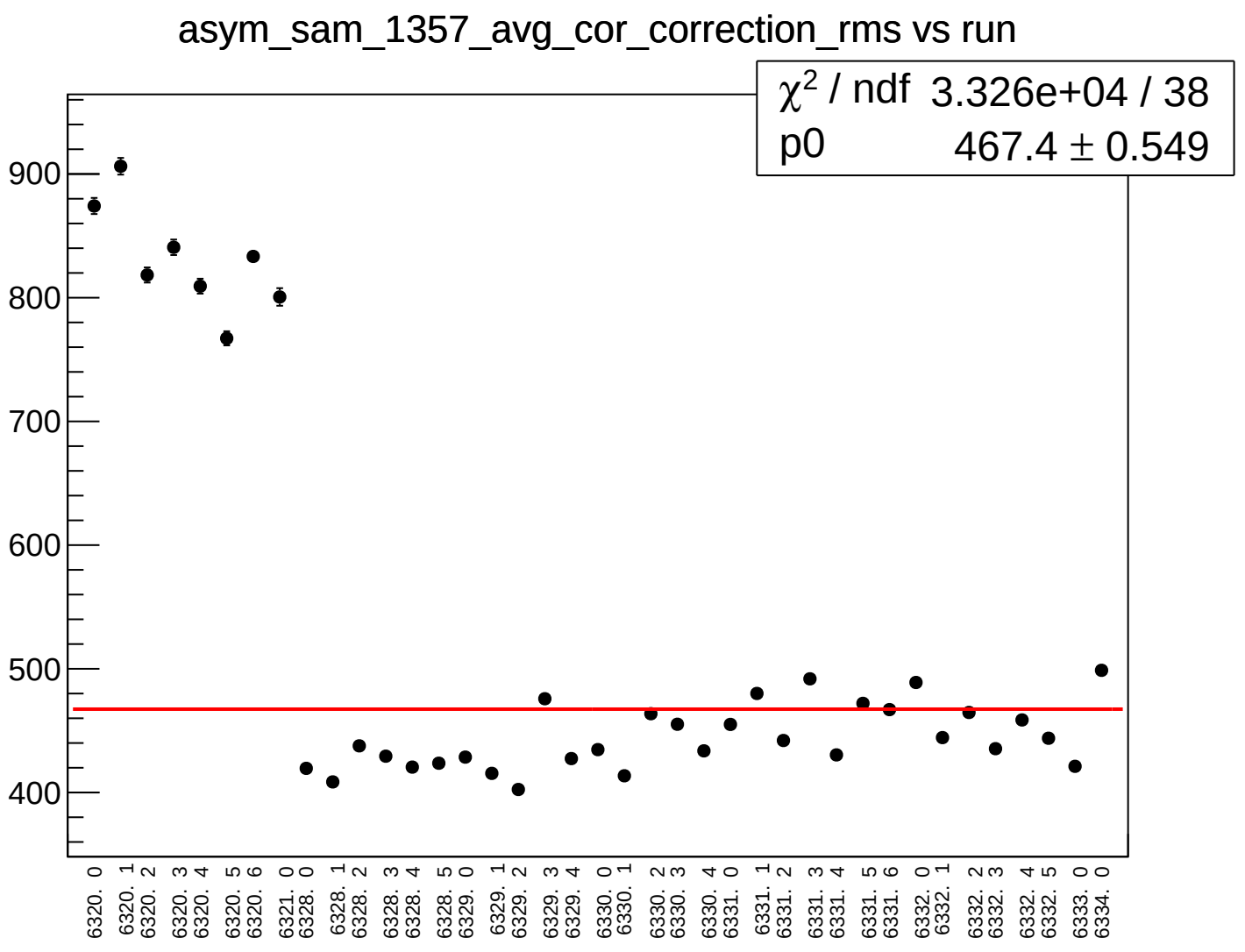

asym_sam_1357_avg_reg_correction_rms vs run
χ^2 / ndf 3.326e+04 / 38
p0 467.4 ± 0.549
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 39.84 / 38
p0 9.328 ± 88.92
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03668
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.725e+04 / 38
p0 54.12 ± 0.06288
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 37.95 / 38
p0 −717.3 ± 776.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −61.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 39
Mean −0.04028
Std Dev 0.9857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ^2 / ndf 3.326e+04 / 38
p0 467.4 ± 0.549
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
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6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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6332. 0
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6332. 2
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6332. 5
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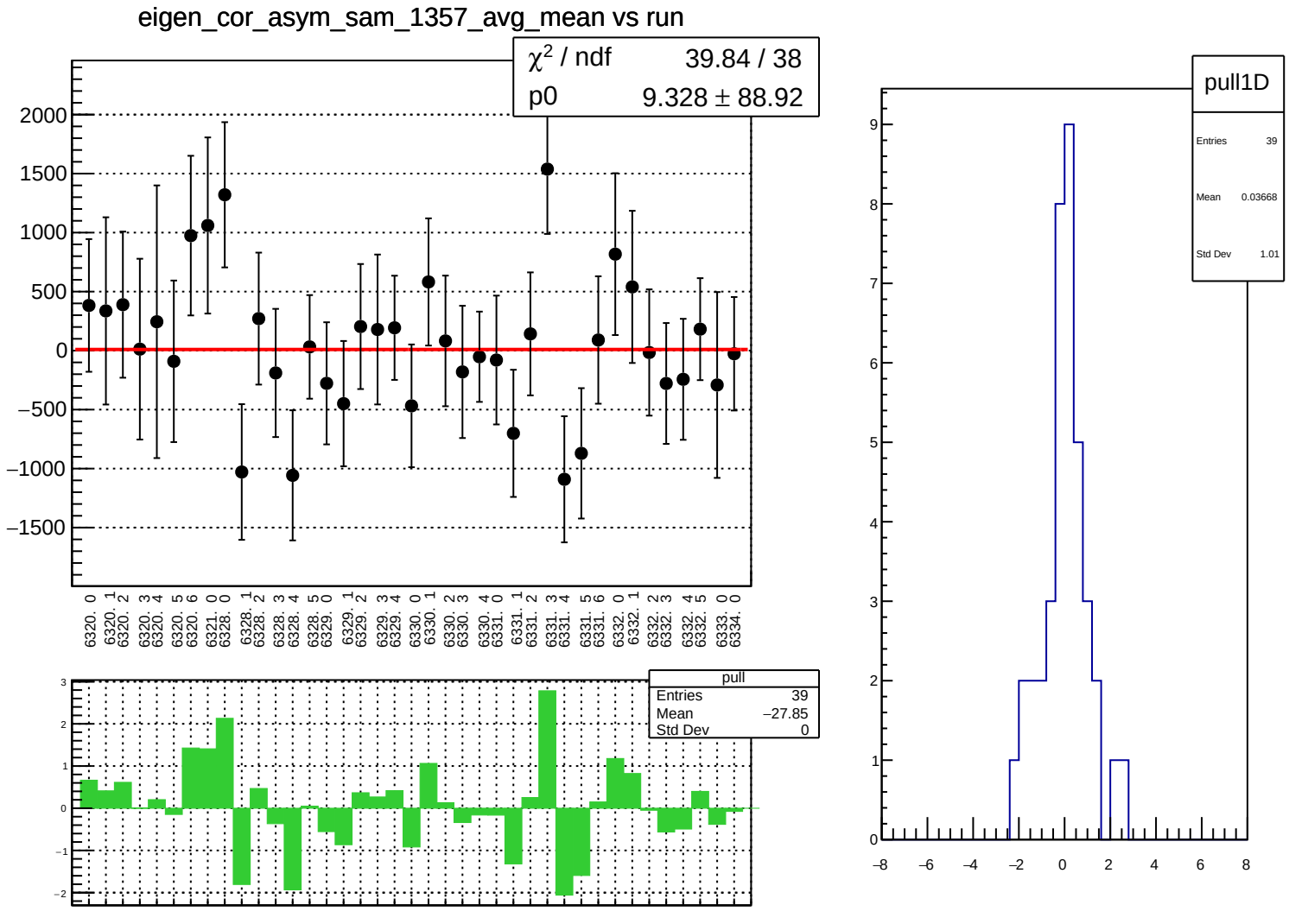
6334. 0


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 39.84 / 38
p0 9.328 ± 88.92
2000
1500
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
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6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
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6331. 2
6331. 3
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6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03668
Std Dev 1.01
9
8
7
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5
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−8
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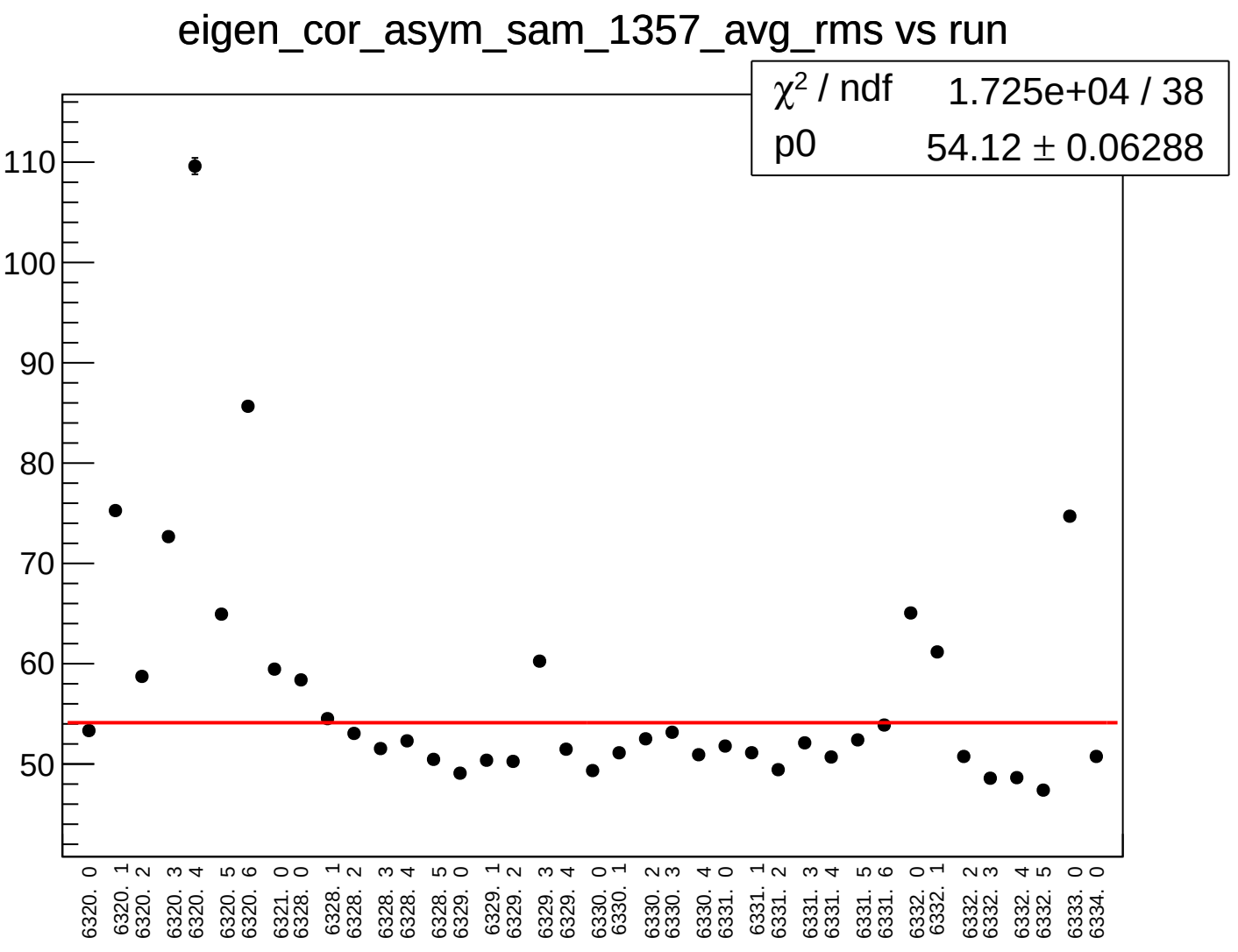
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.725e+04 / 38
p0 54.12 ± 0.06288
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
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6329. 2
6329. 3
6329. 4
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6330. 1
6330. 2
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6331. 0
6331. 1
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6331. 4
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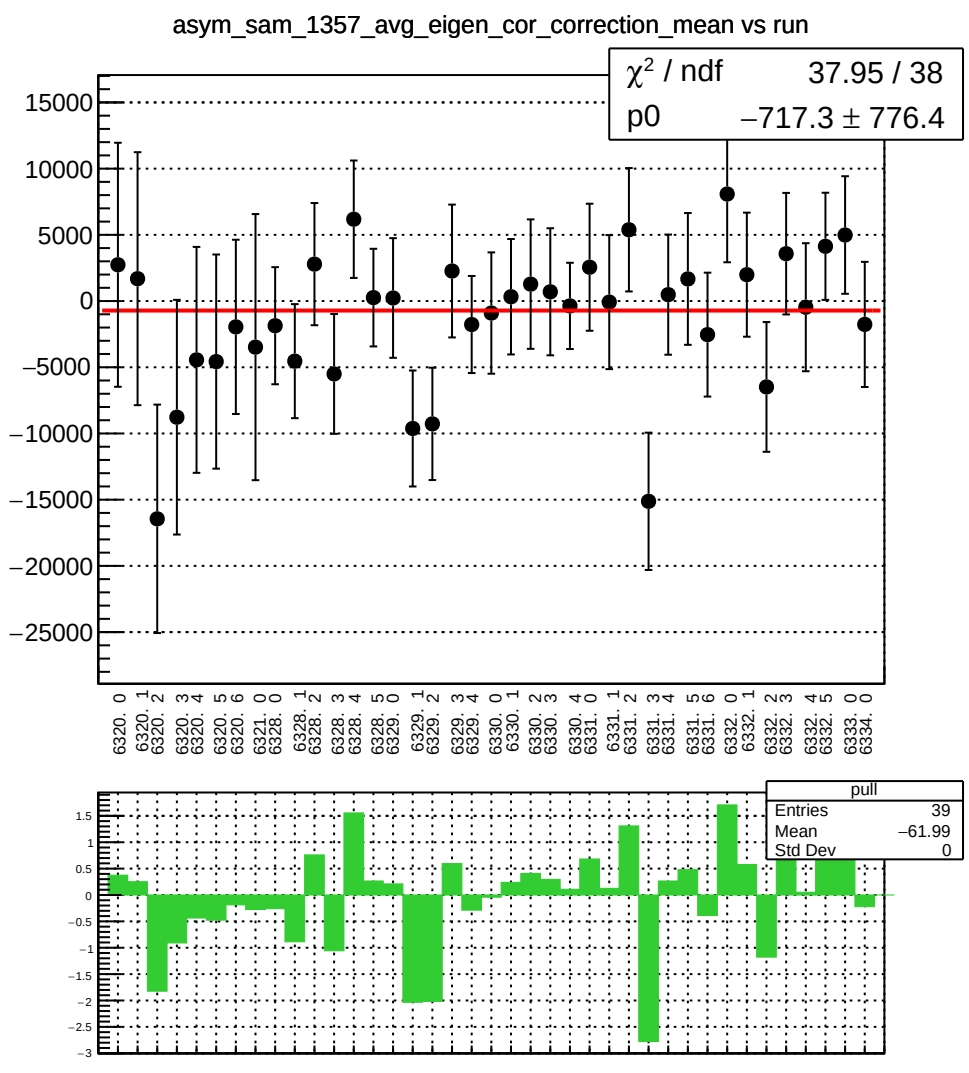
asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.95 / 38
p0 −717.3 ± 776.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
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6329. 1
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6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
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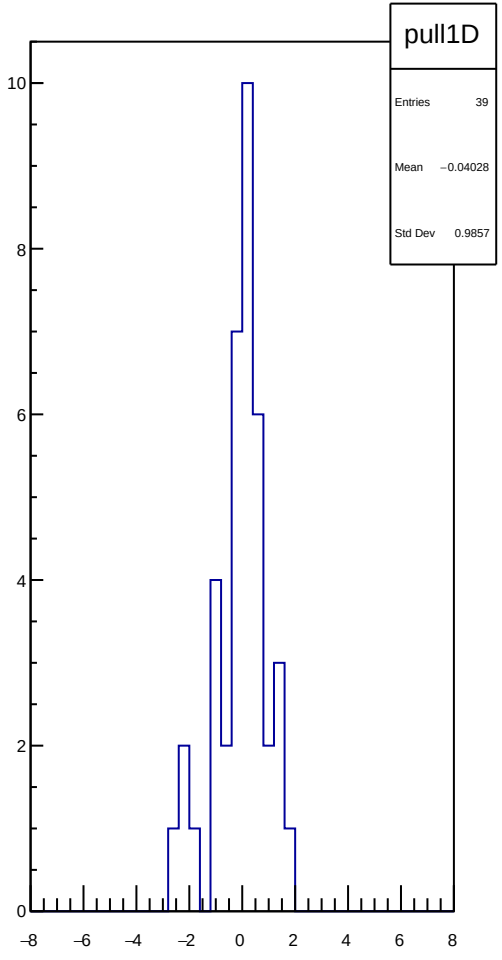
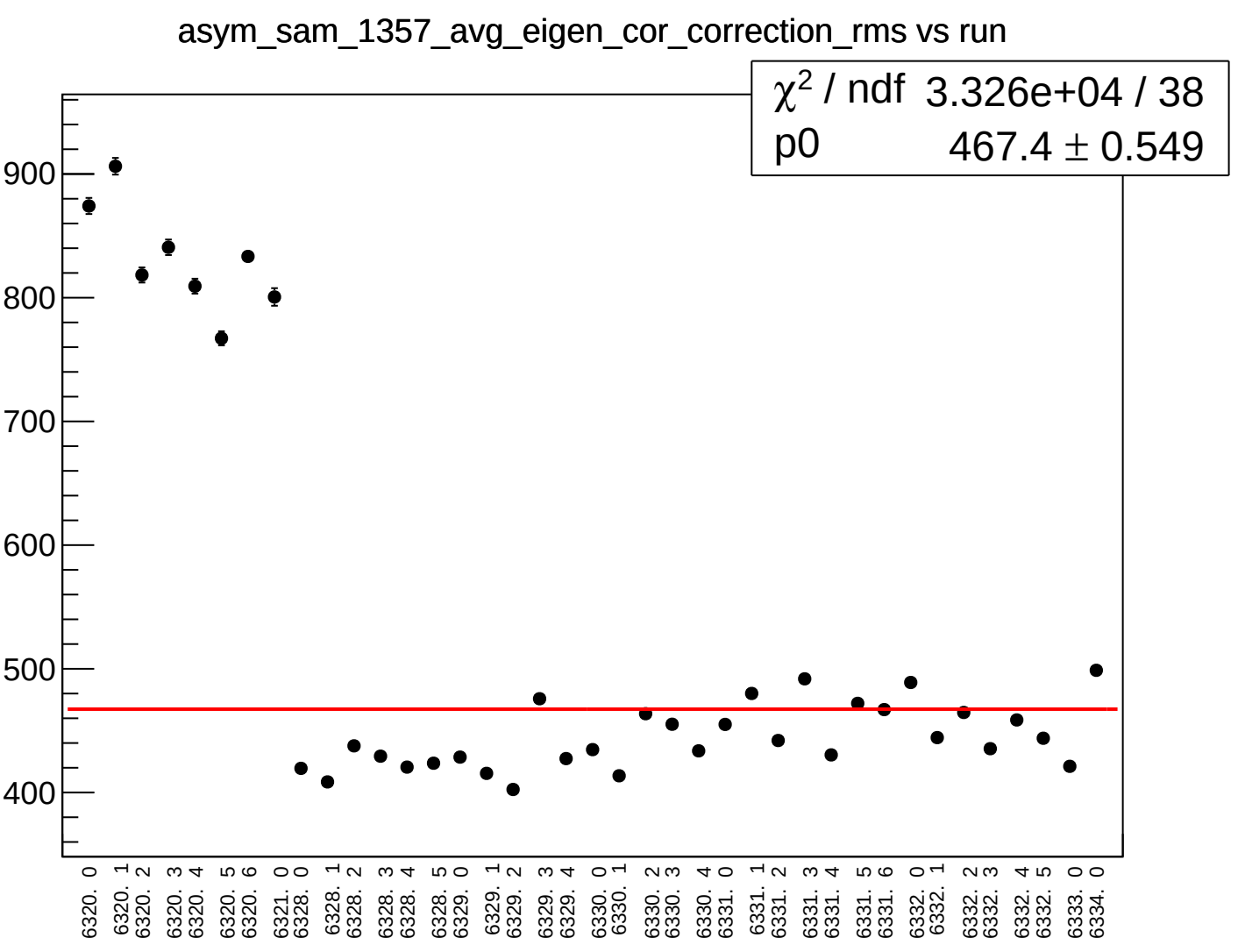
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −61.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 39
Mean −0.04028
Std Dev 0.9857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3.326e+04 / 38
p0 467.4 ± 0.549
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
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6330. 3
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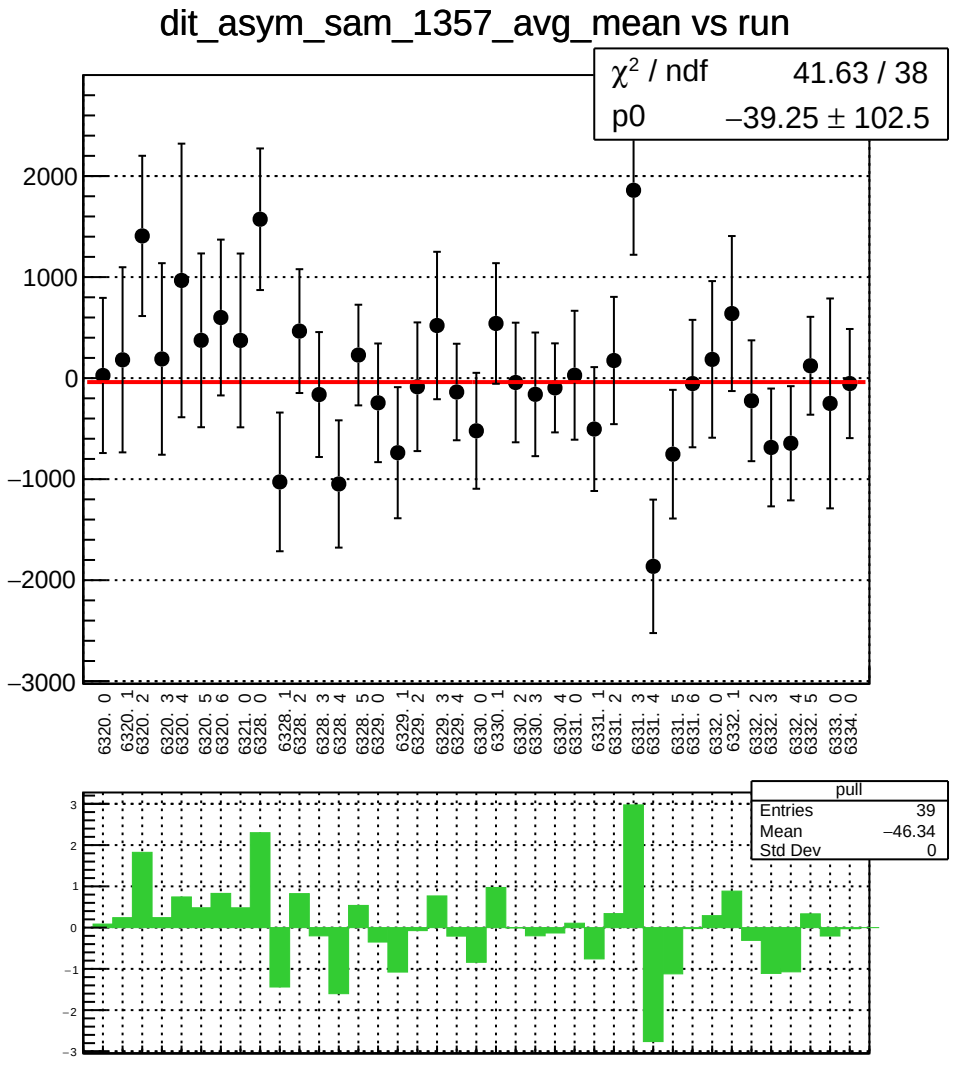
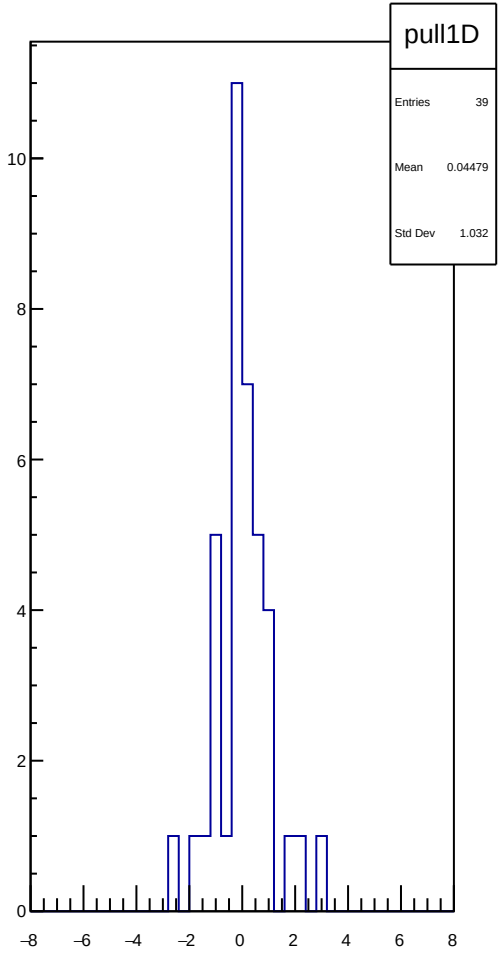
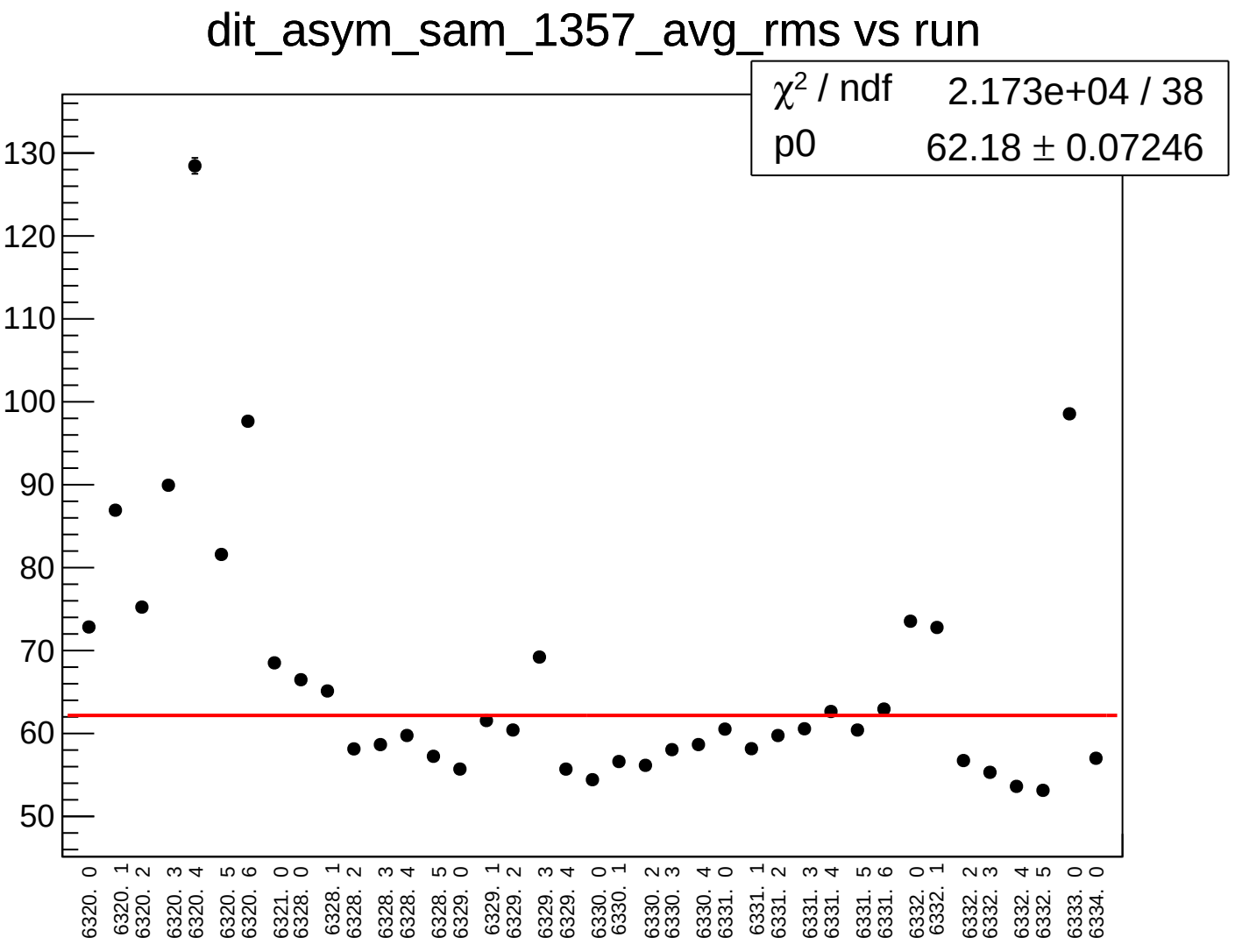
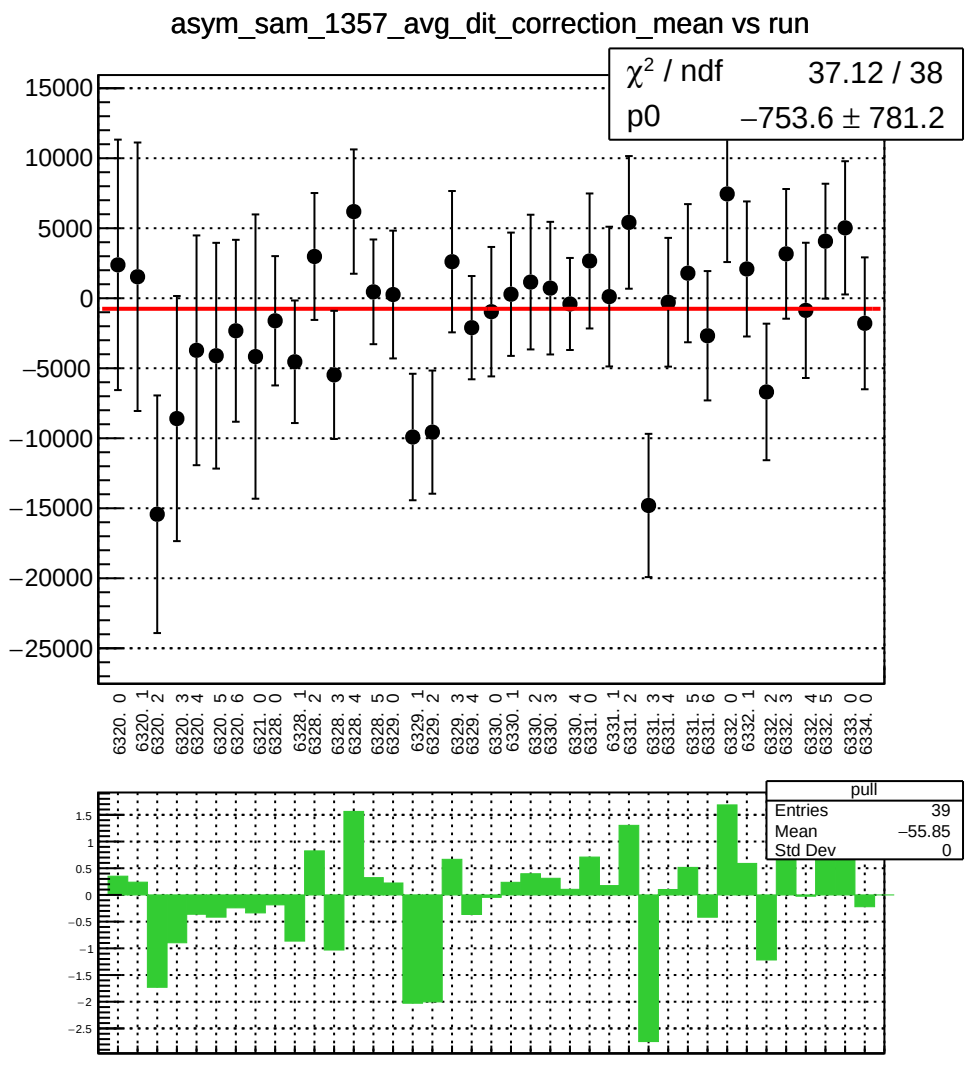
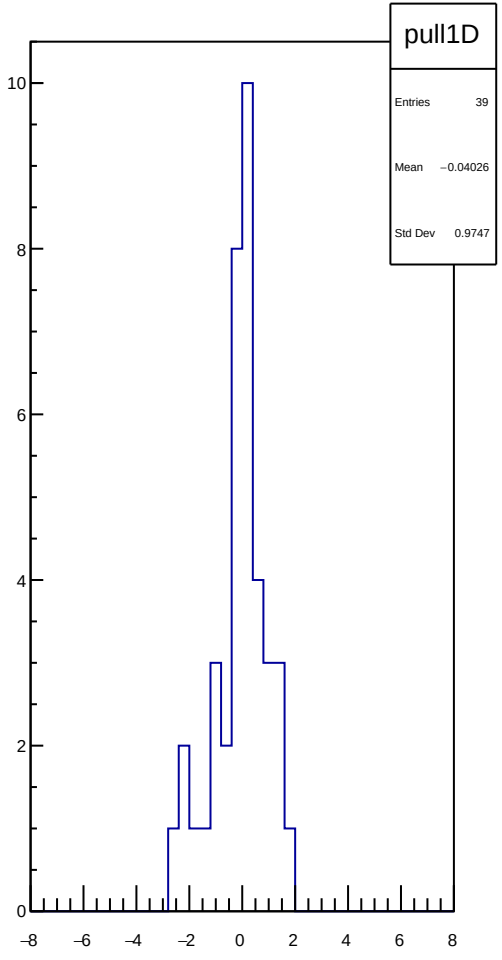
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

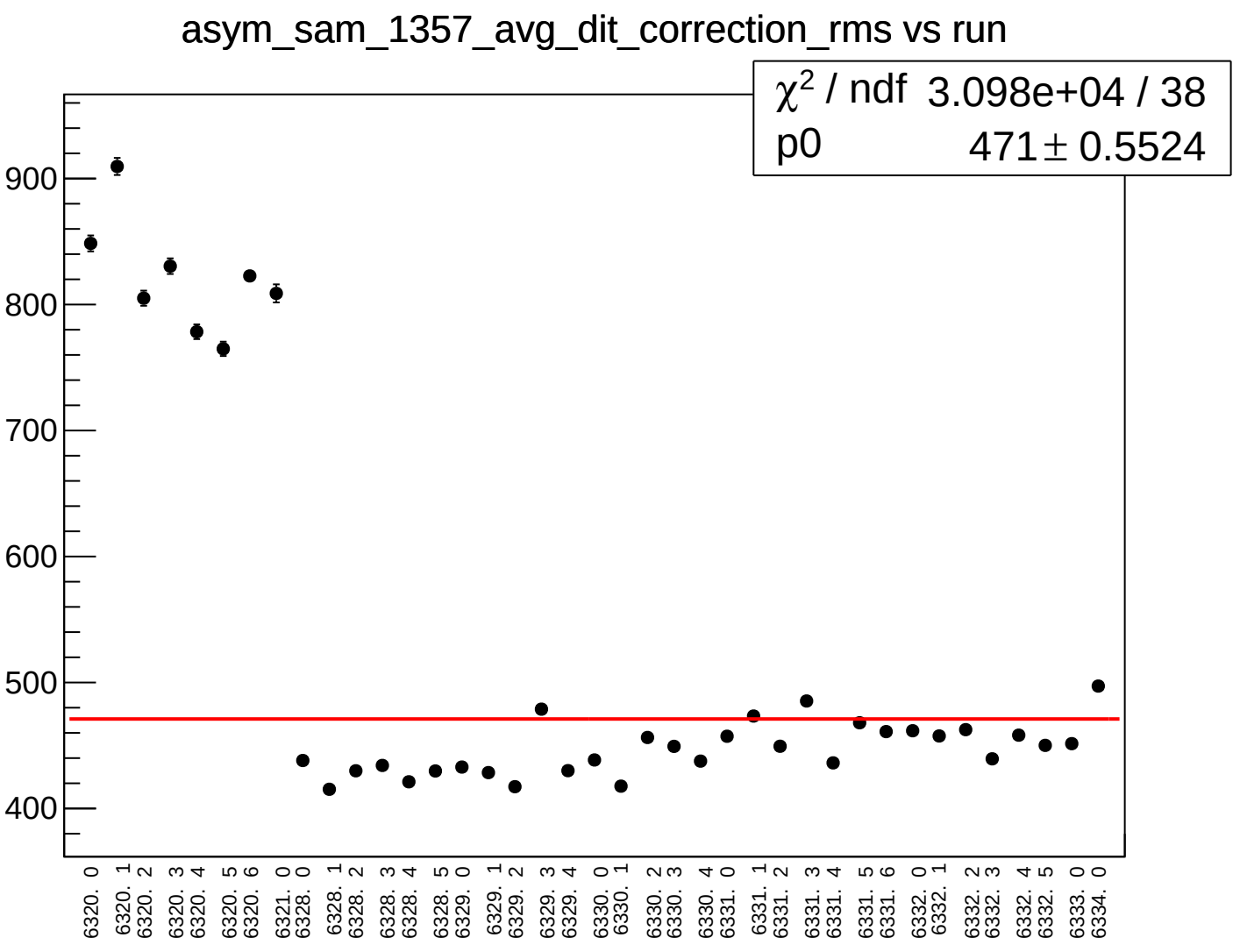

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 41.63 / 38
p0 −39.25 ± 102.5
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.34
Std Dev 0
3
2
1
0
−1
−2
−3

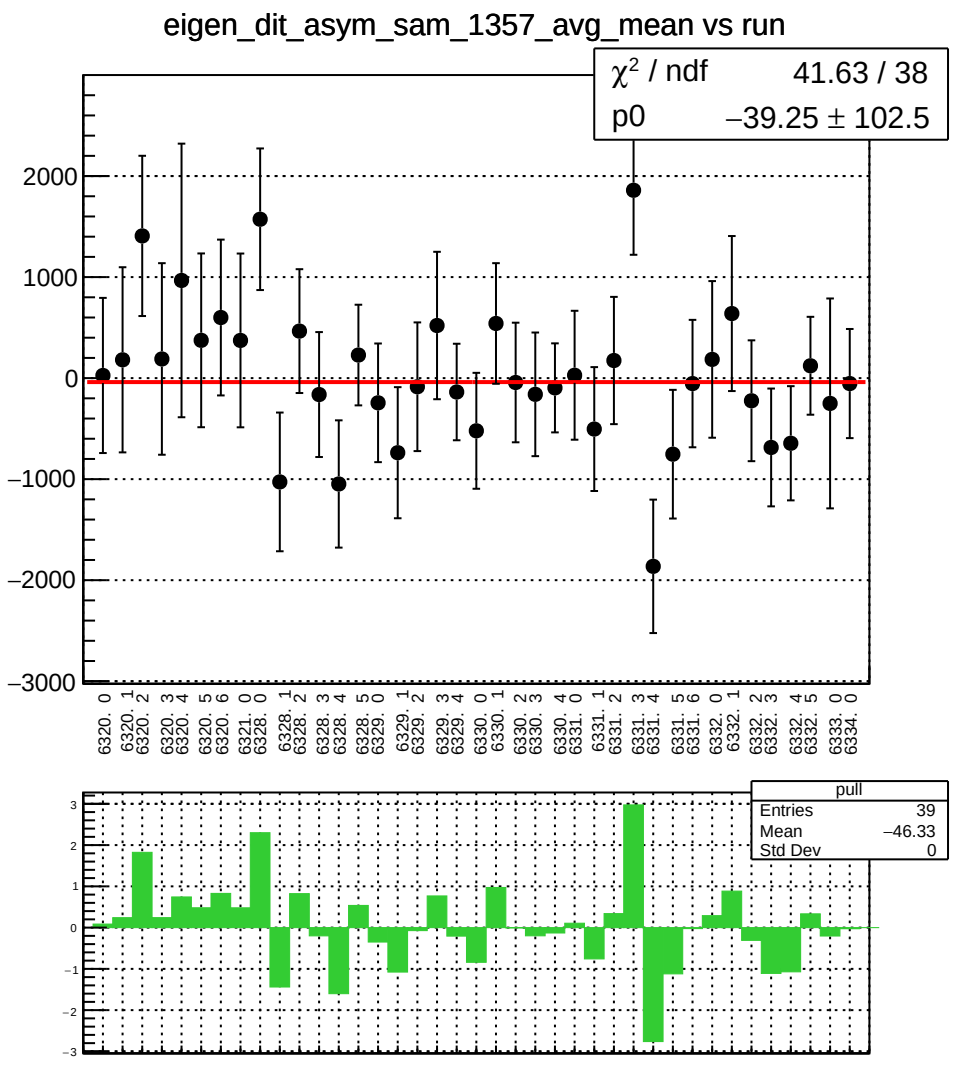

pull1D
Entries 39
Mean 0.04479
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

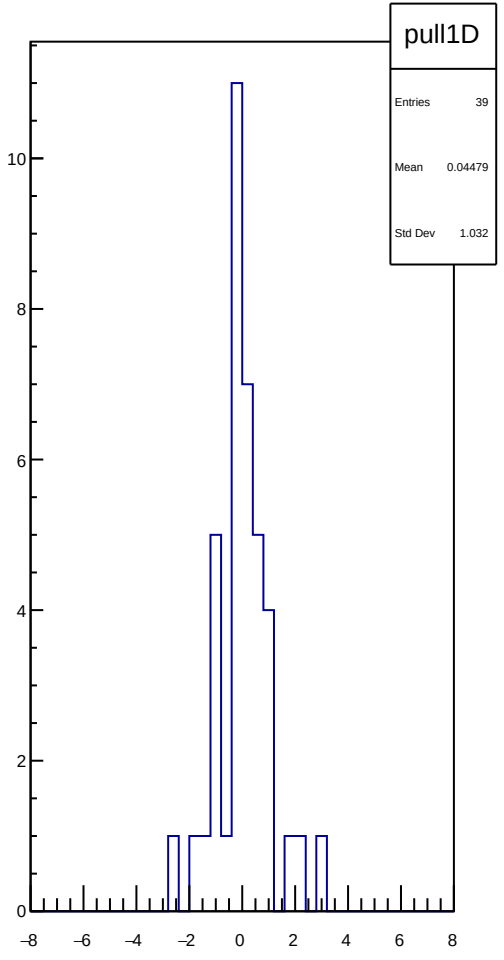

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.173e+04 / 38
p0 62.18 ± 0.07246
130
120
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

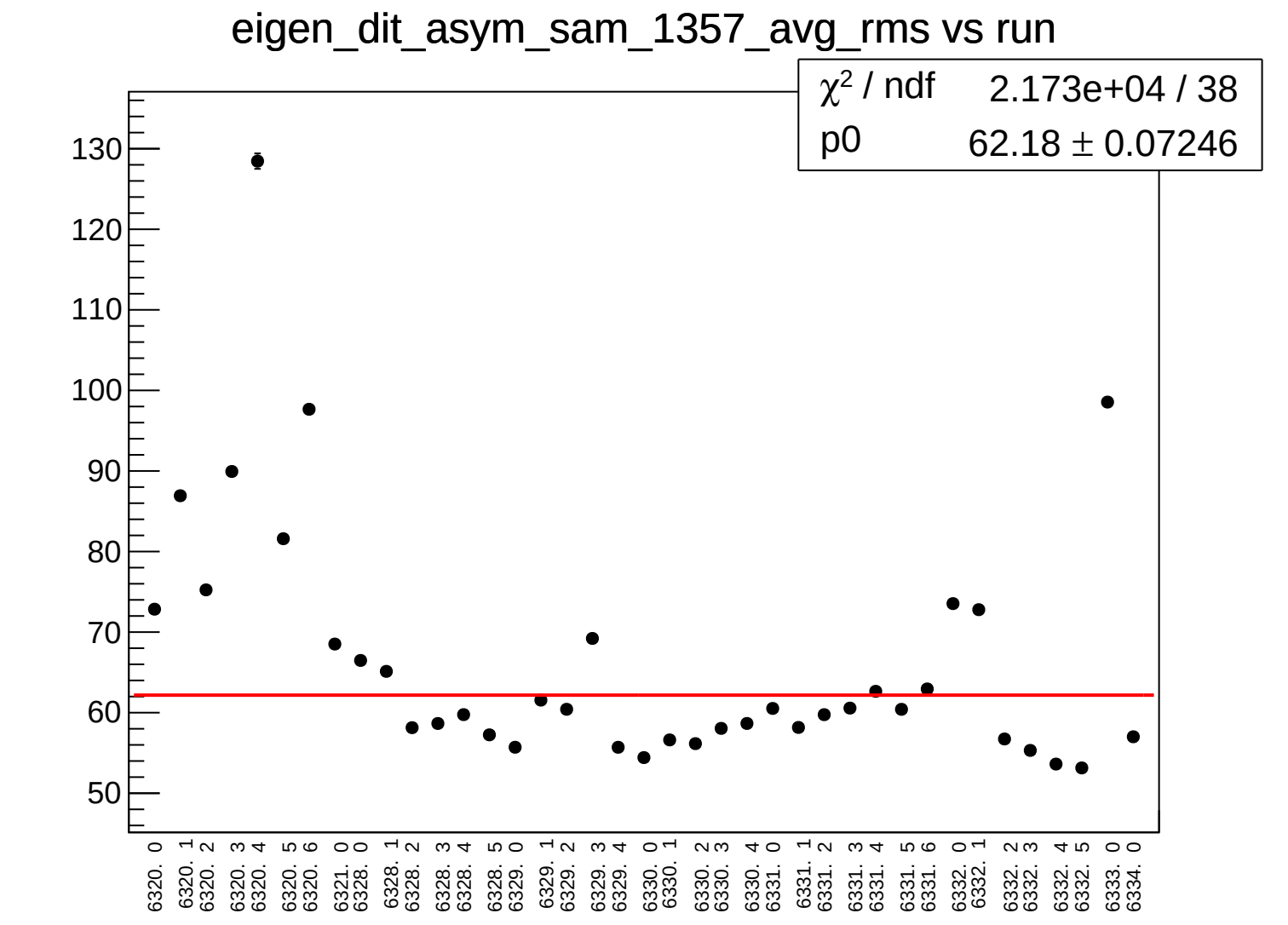

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 37.12 / 38
p0 −753.6 ± 781.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

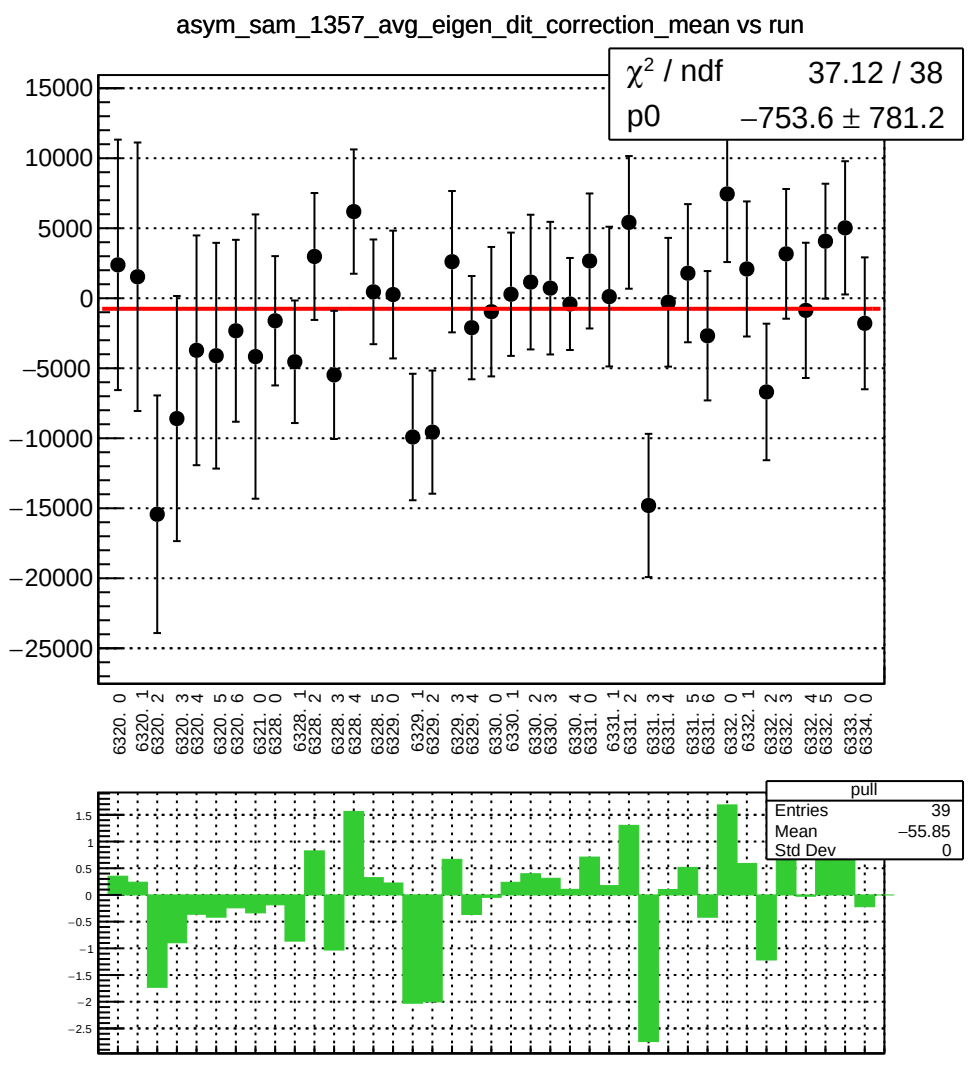

pull1D
Entries 39
Mean −0.04026
Std Dev 0.9747
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

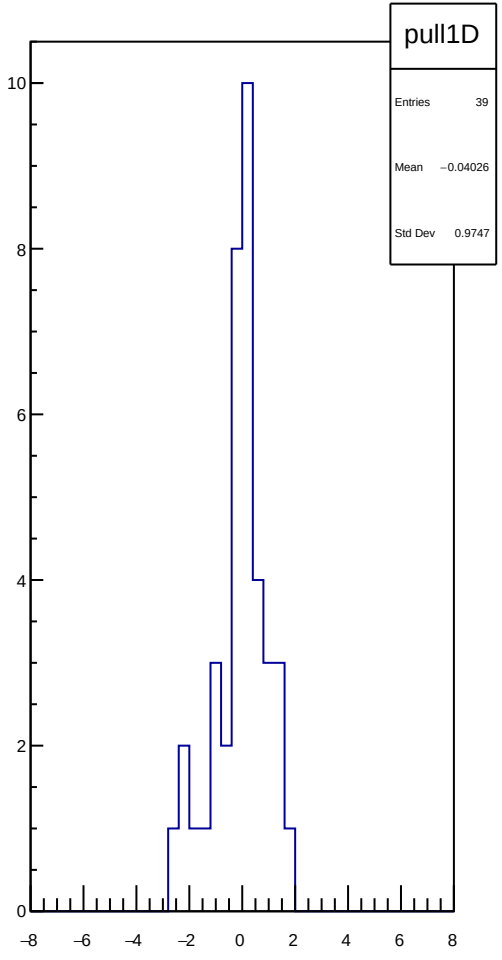

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3.098e+04 / 38
p0 471 ± 0.5524
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

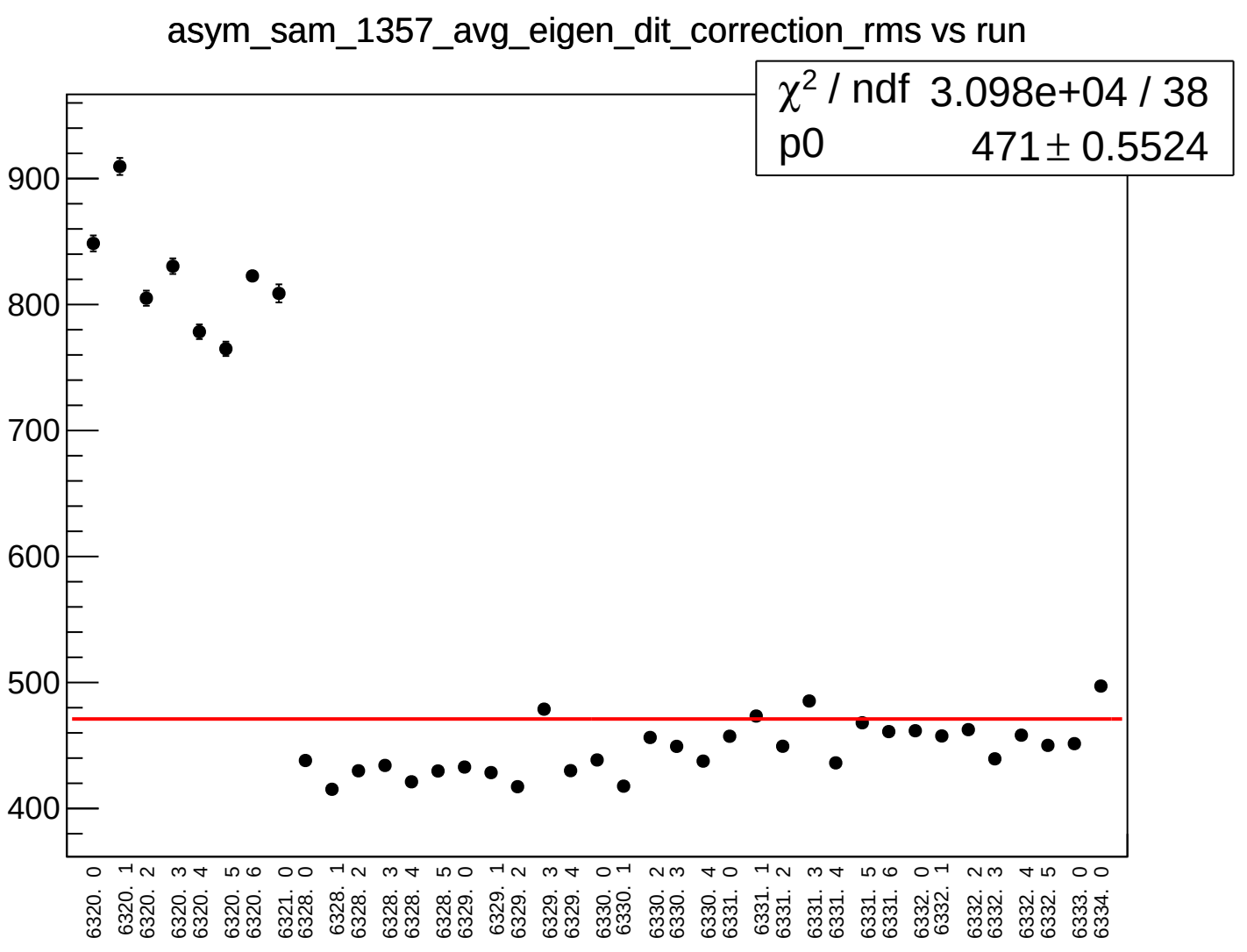

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 41.63 / 38
p0 −39.25 ± 102.5
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.33
Std Dev 0
3
2
1
0
−1
−2
−3

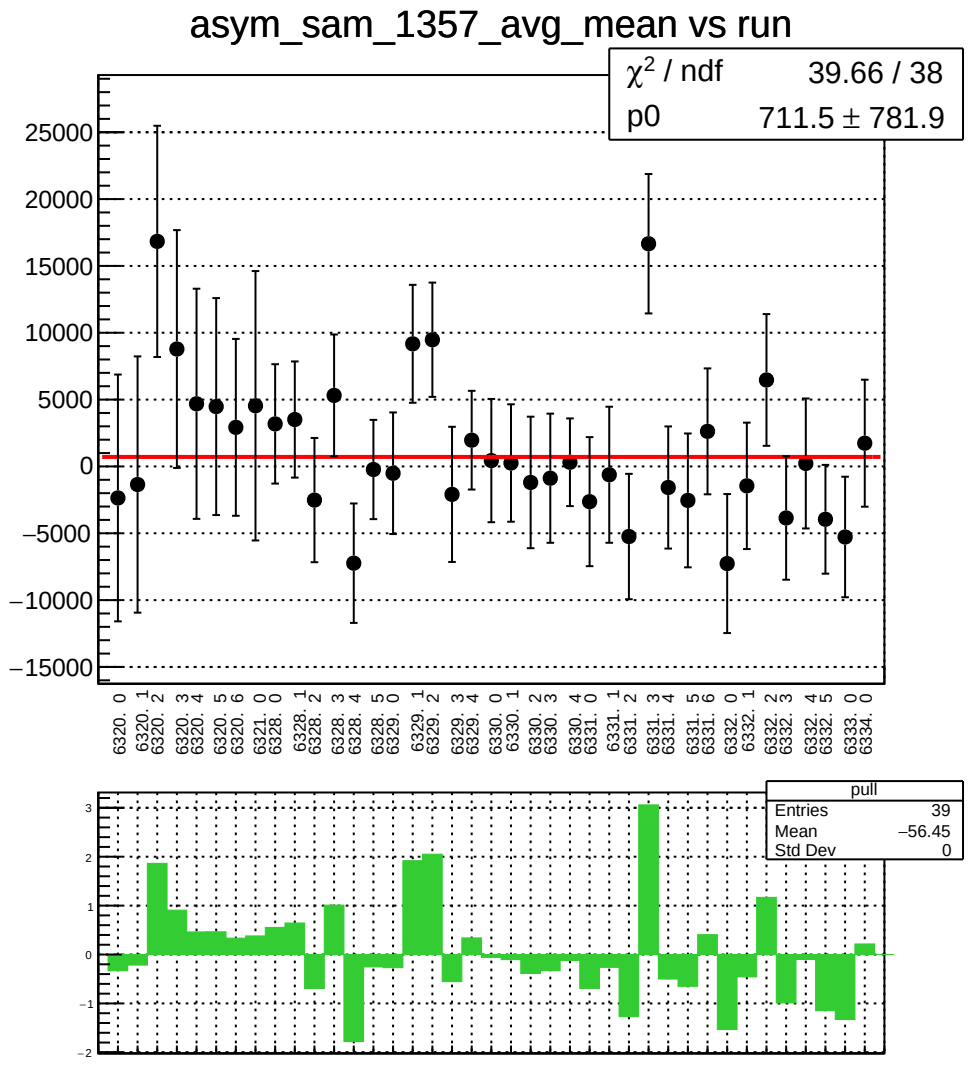

pull1D
Entries 39
Mean 0.04479
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

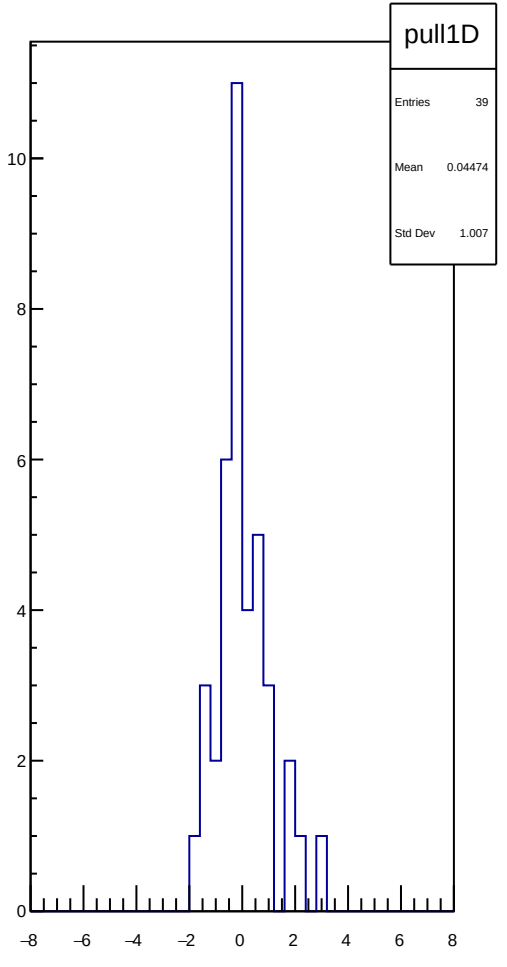

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.173e+04 / 38
p0 62.18 ± 0.07246
130
120
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

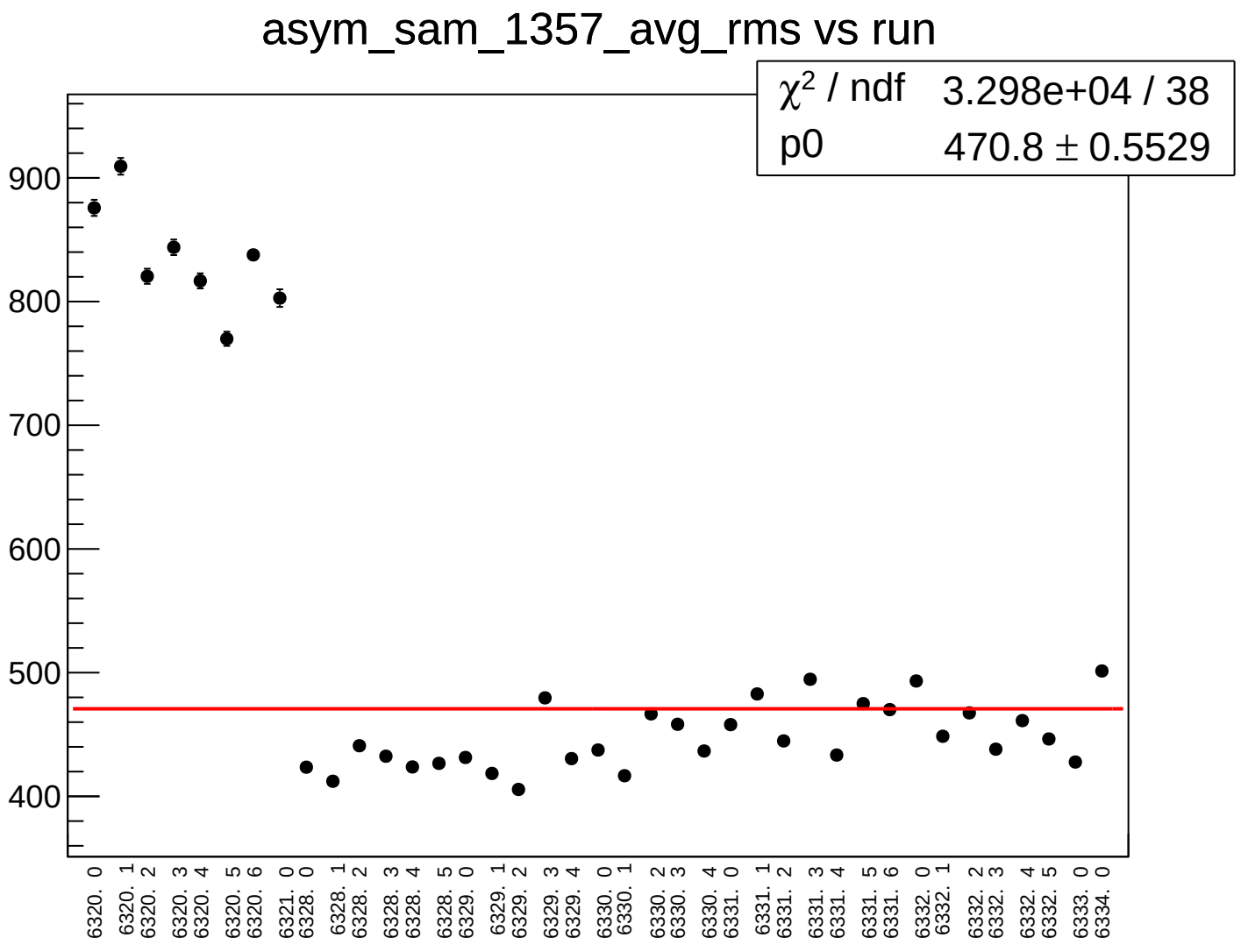

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.12 / 38
p0 −753.6 ± 781.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

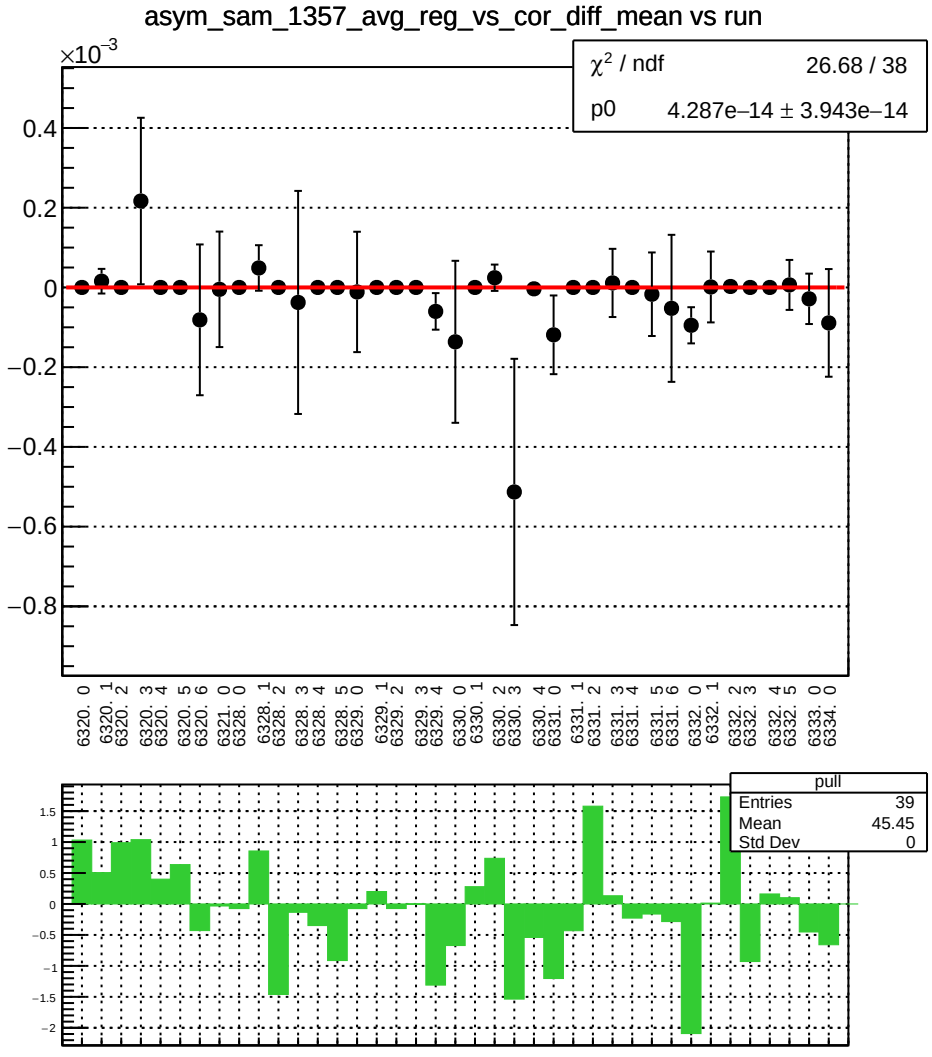

pull1D
Entries 39
Mean −0.04026
Std Dev 0.9747
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

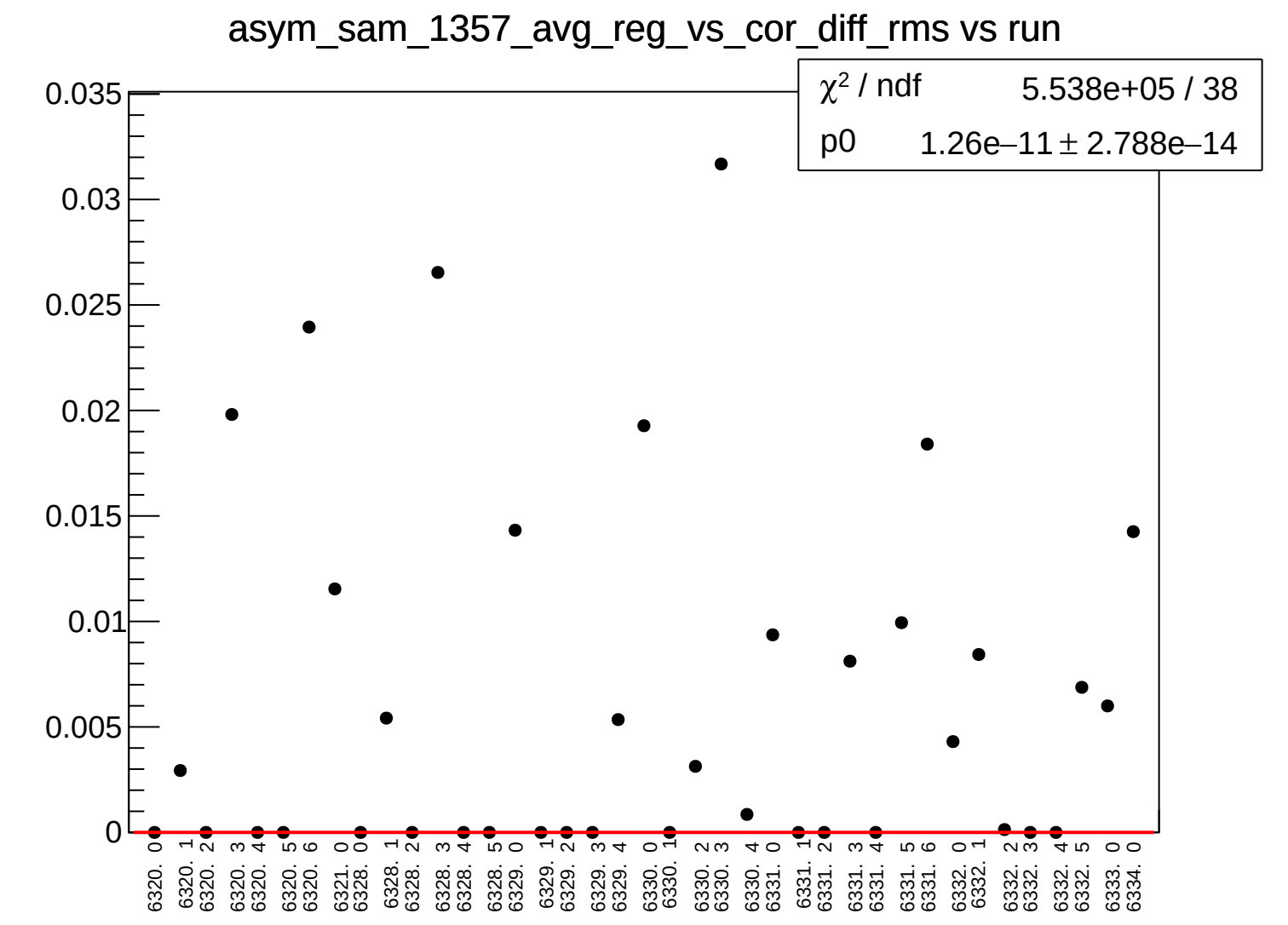

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.098e+04 / 38
p0 471 ± 0.5524
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

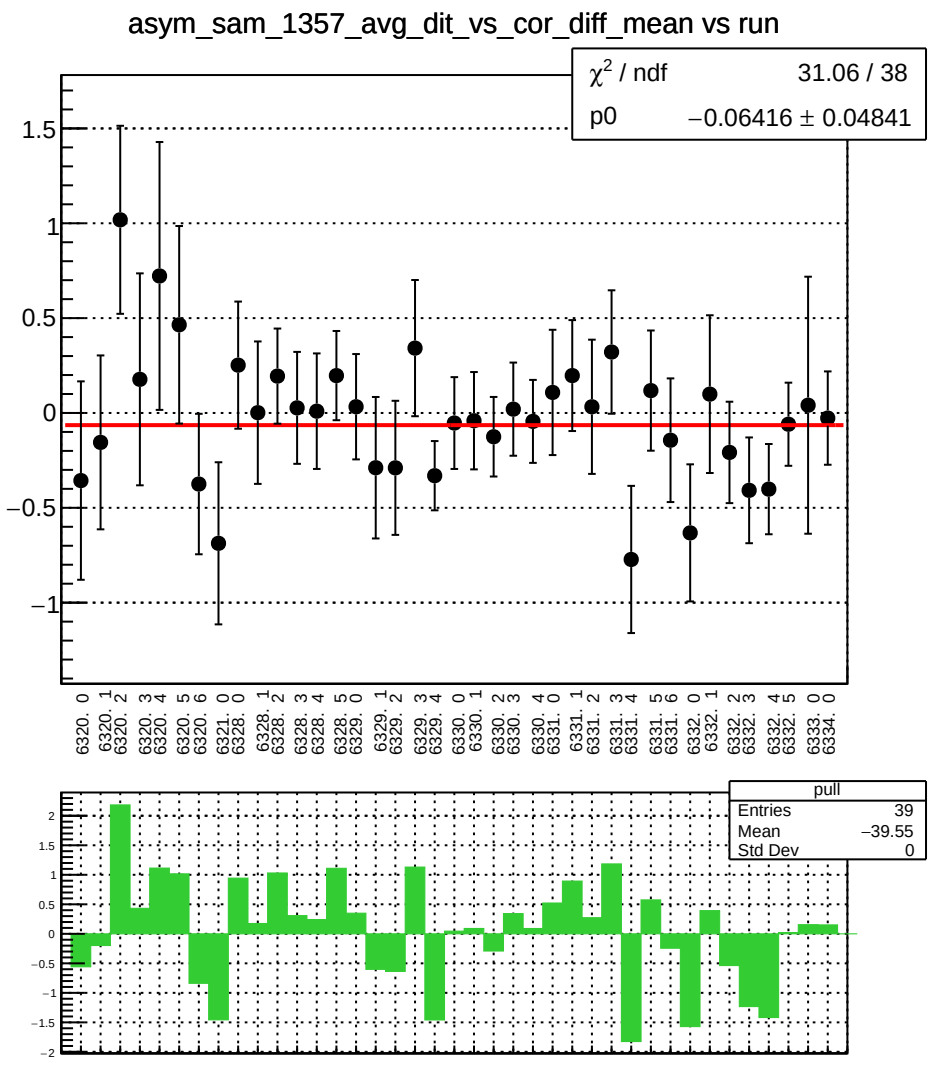

asym_sam_1357_avg_mean vs run
χ² / ndf 39.66 / 38
p0 711.5 ± 781.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −56.45
Std Dev 0
3
2
1
0
−1
−2

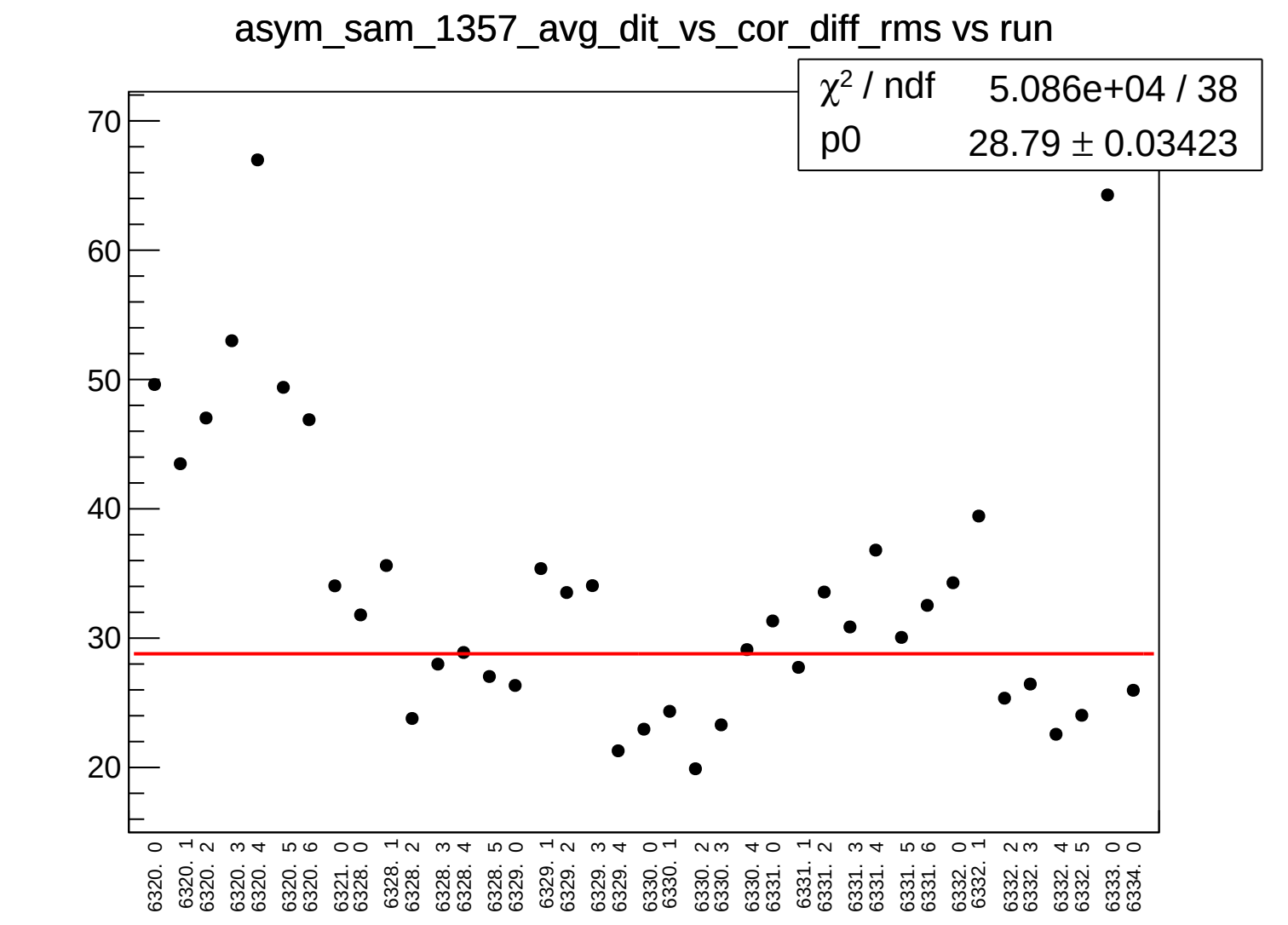

pull1D
Entries 39
Mean 0.04474
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

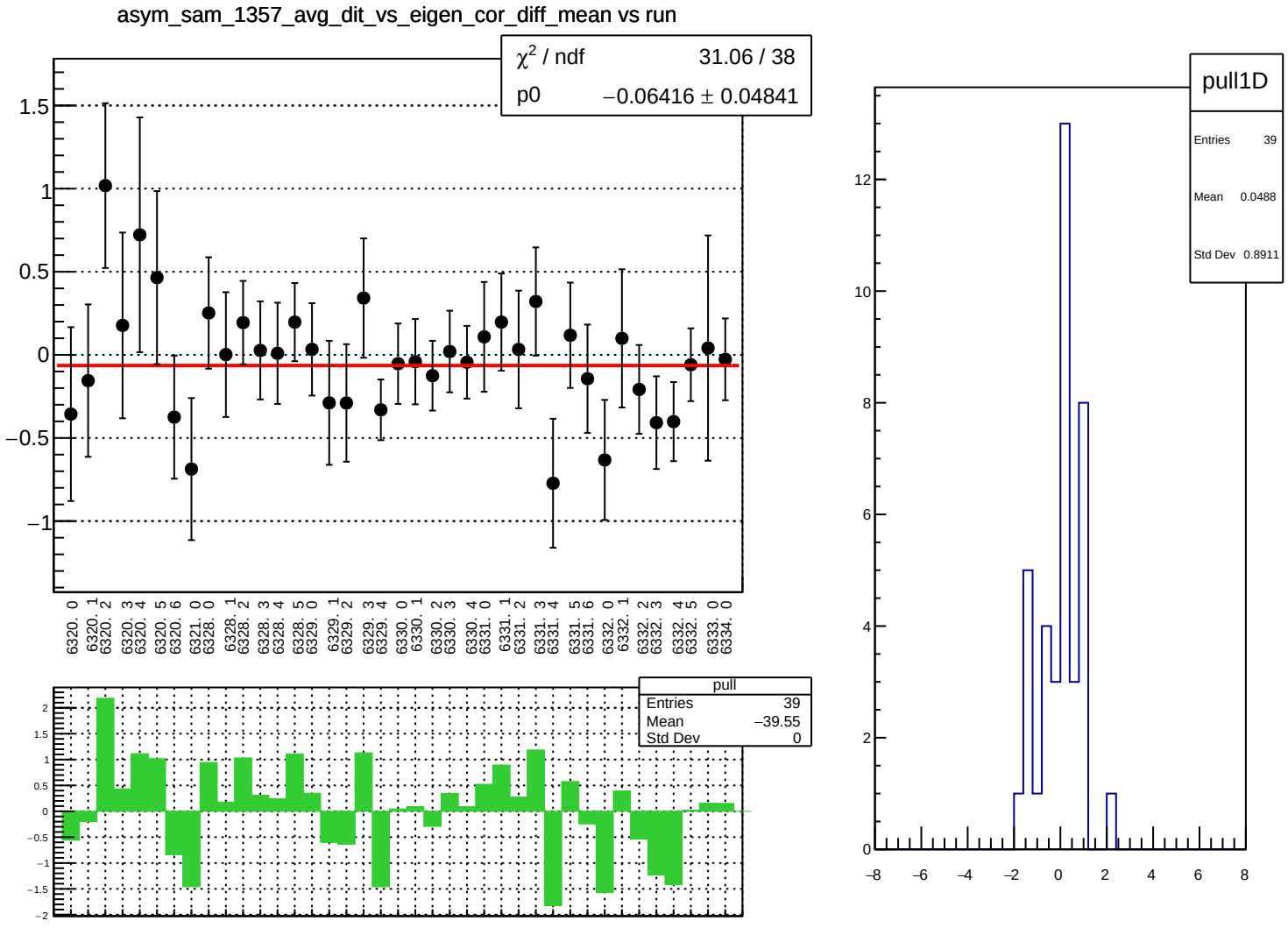

asym_sam_1357_avg_rms vs run
χ² / ndf 3.298e+04 / 38
p0 470.8 ± 0.5529
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

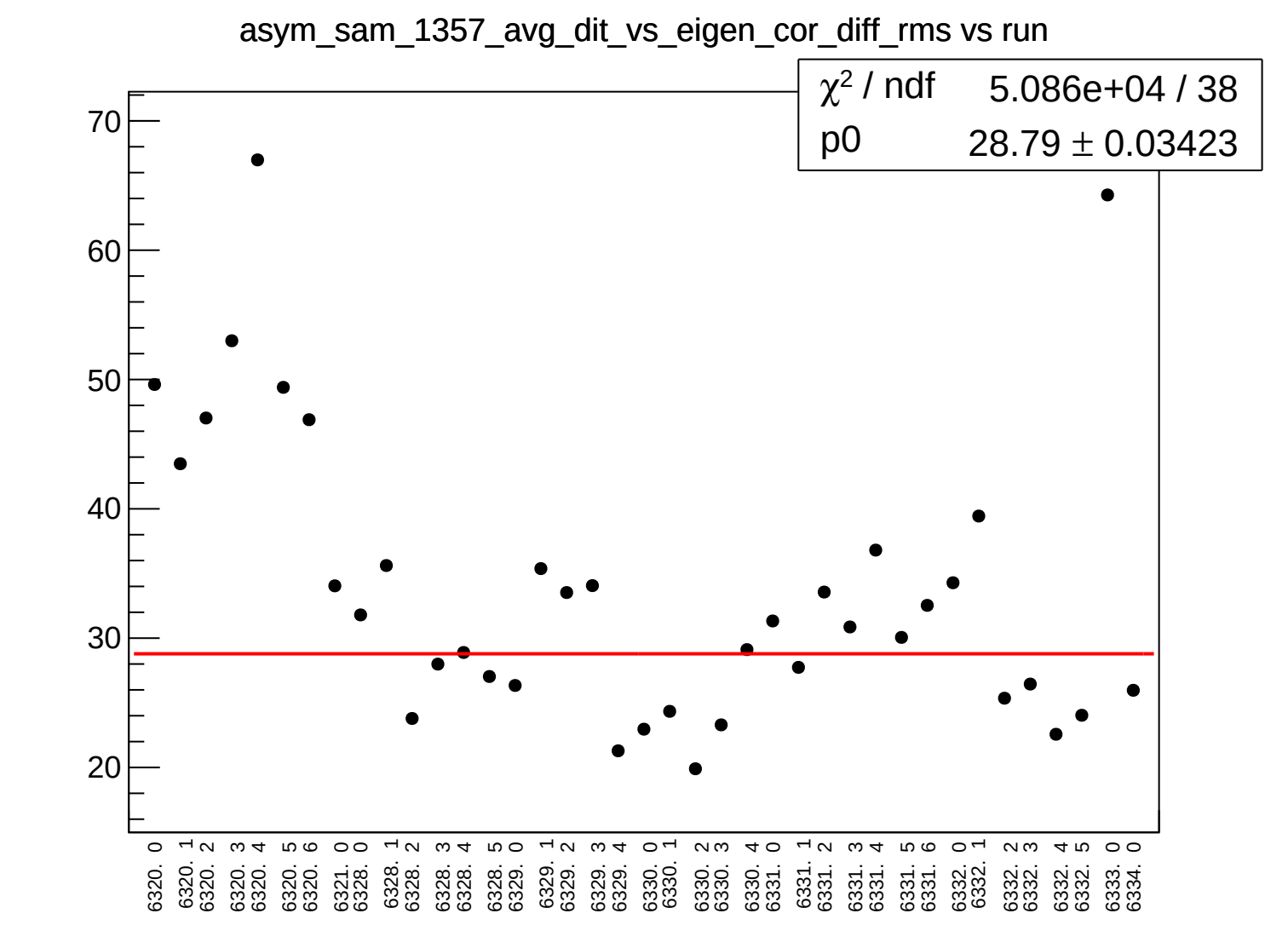

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 26.68 / 38
p0 4.287e−14 ± 3.943e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.09377
Std Dev 0.8217
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

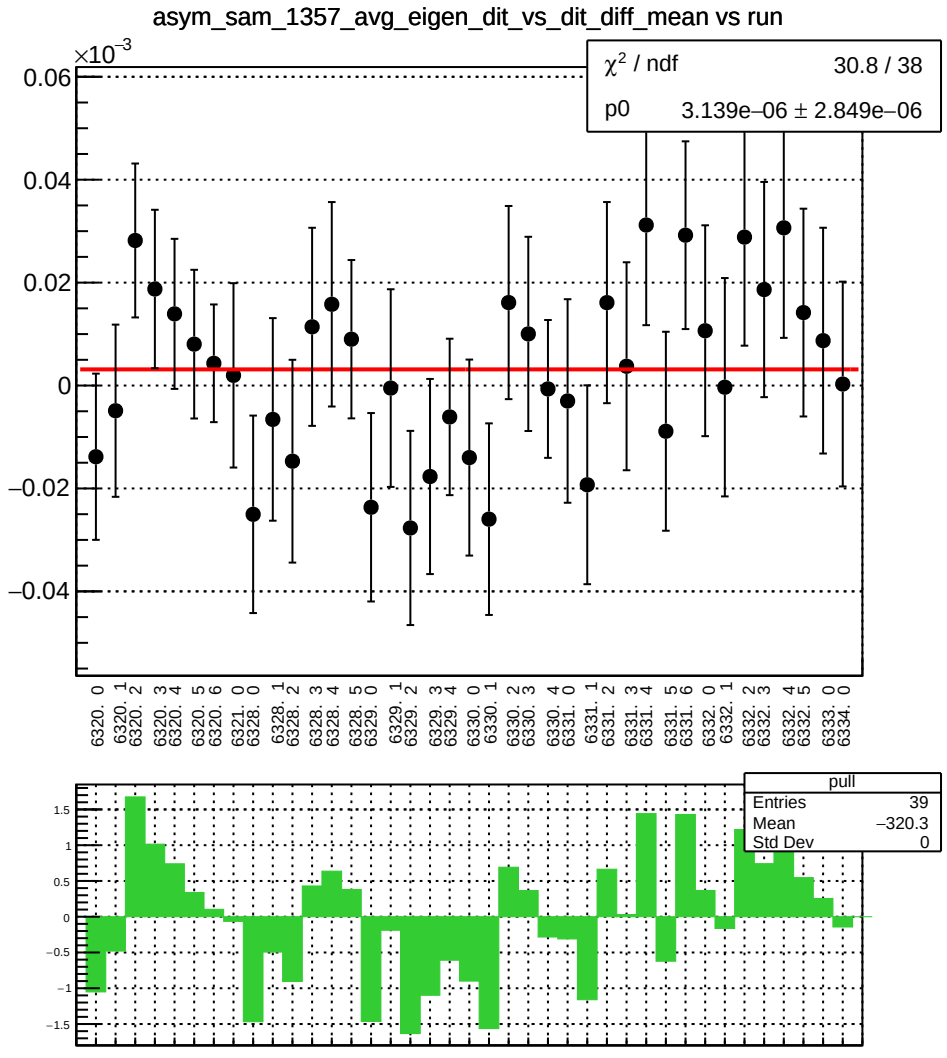

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.538e+05 / 38
p0 1.26e−11 ± 2.788e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

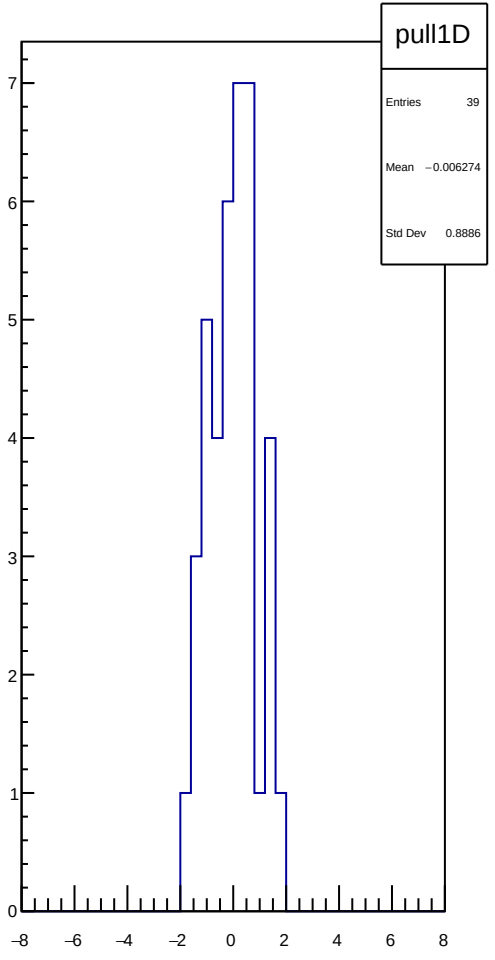

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.06 / 38
p0 −0.06416 ± 0.04841
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0488
Std Dev 0.8911
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

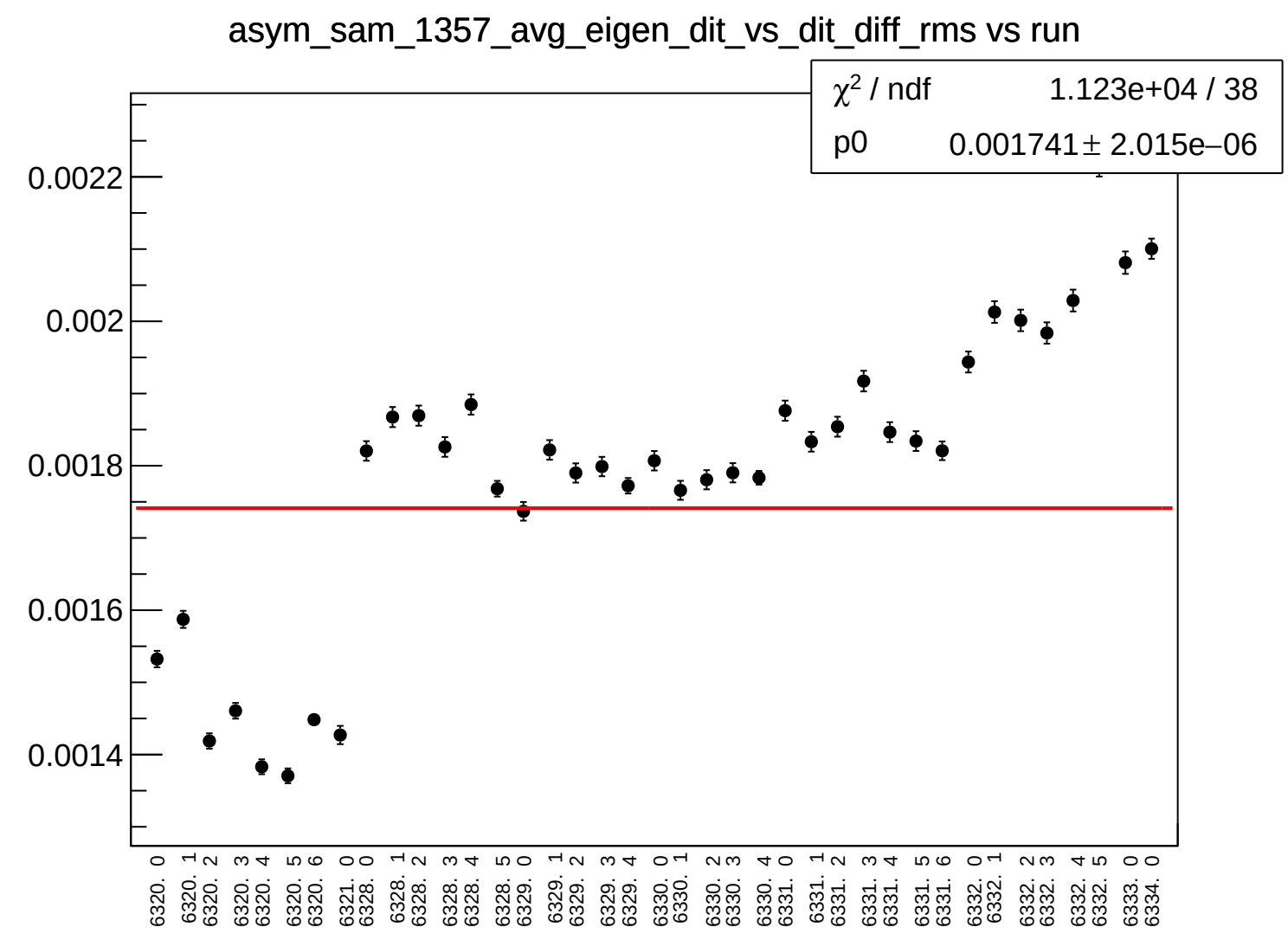

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.086e+04 / 38
p0 28.79 ± 0.03423
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

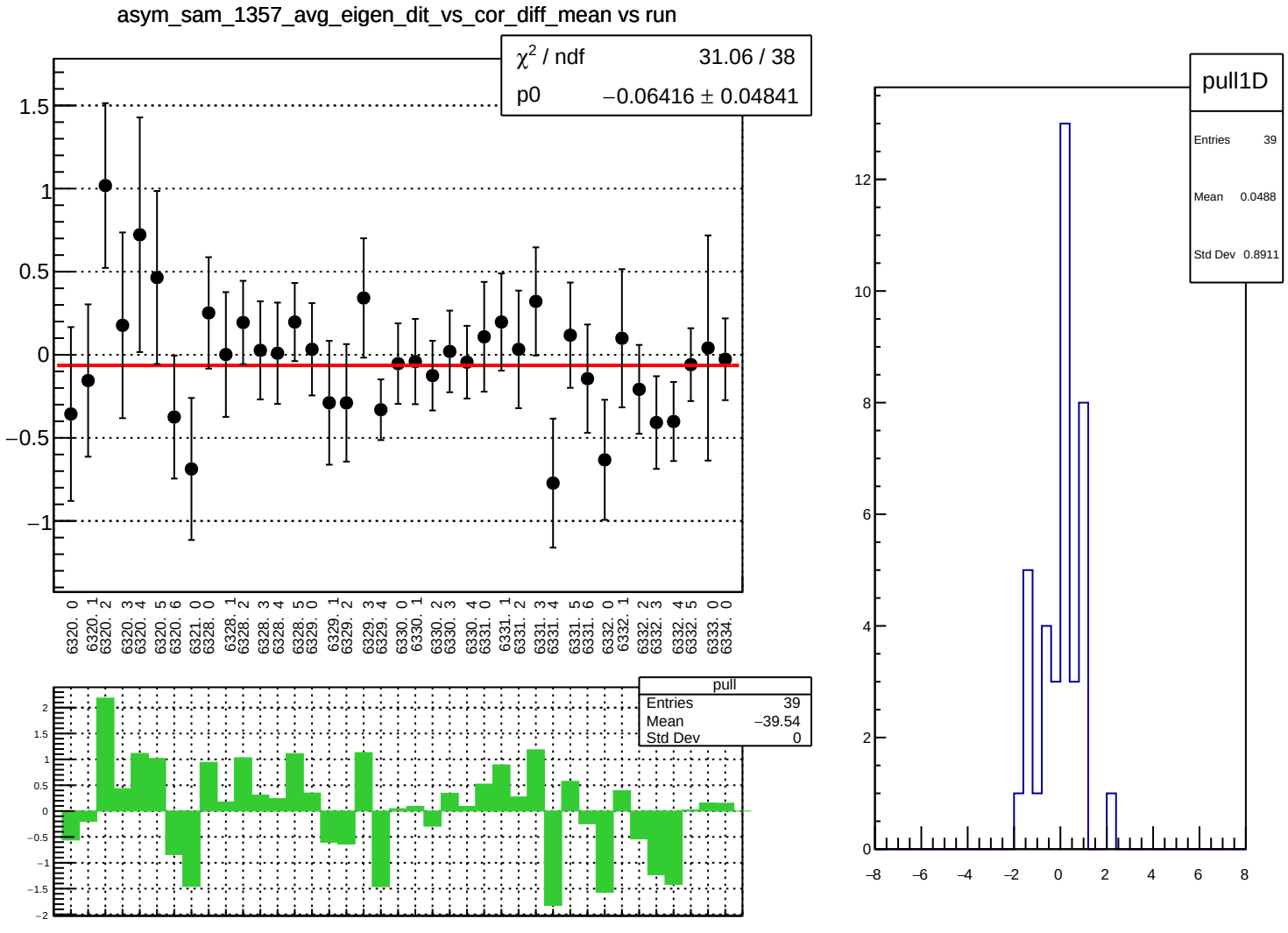

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.06 / 38
p0 −0.06416 ± 0.04841
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0488
Std Dev 0.8911
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

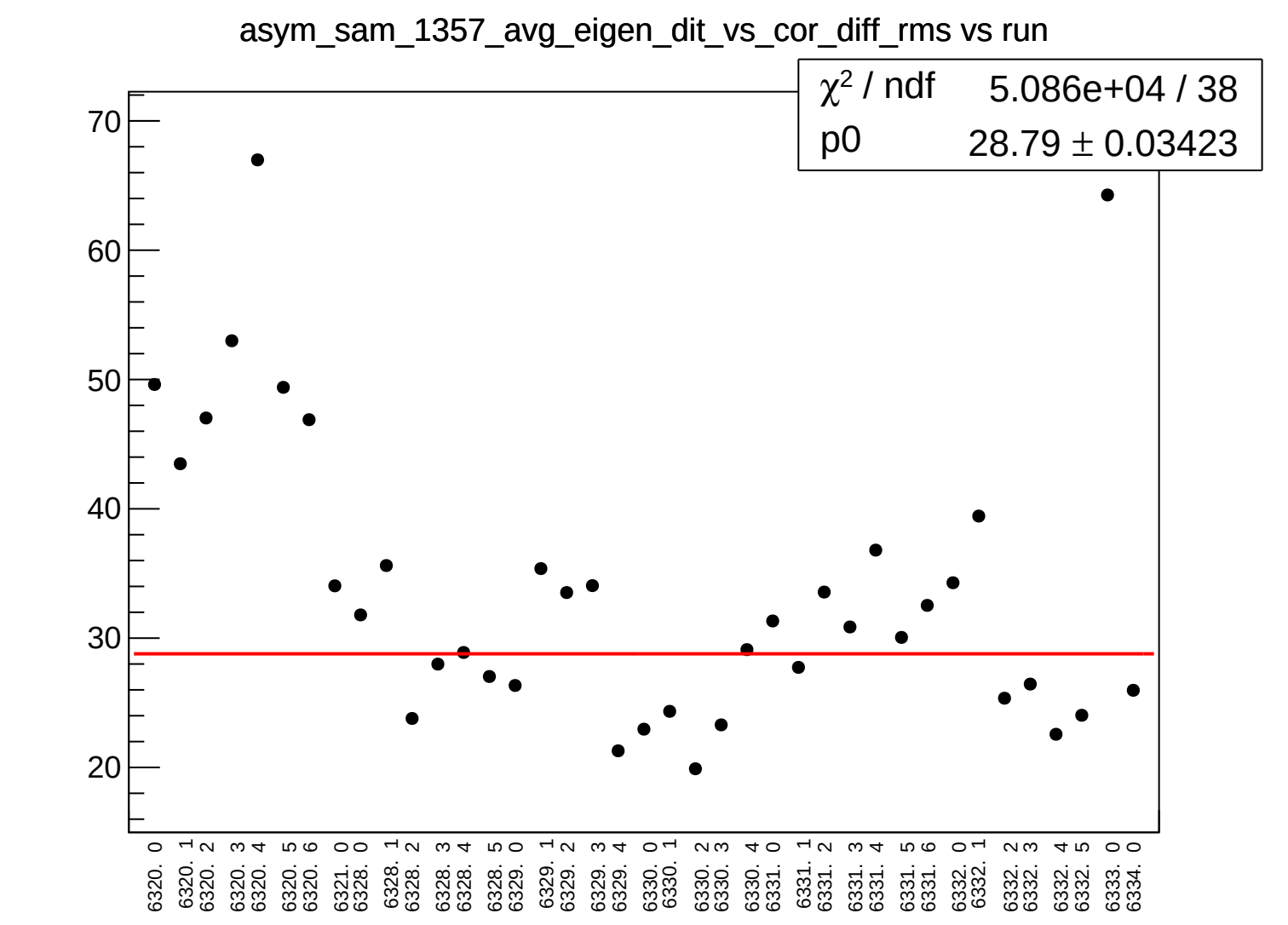

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.086e+04 / 38
p0 28.79 ± 0.03423
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.8 / 38
p0 3.139e−06 ± 2.849e−06
0.06
0.04
0.02
0
−0.02
−0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −320.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

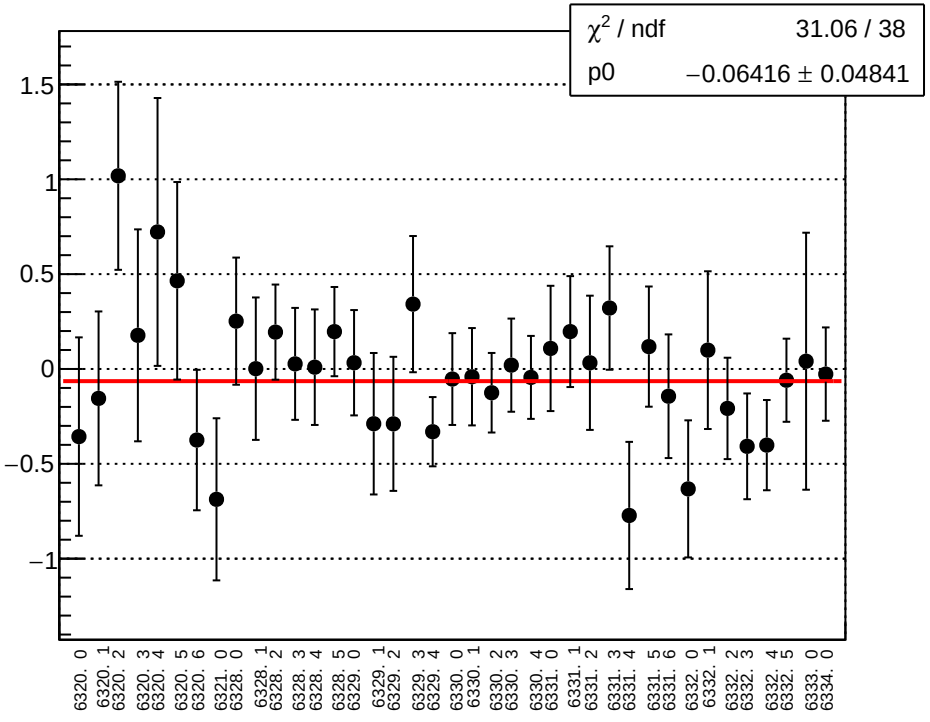

pull1D
Entries 39
Mean −0.006274
Std Dev 0.8886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

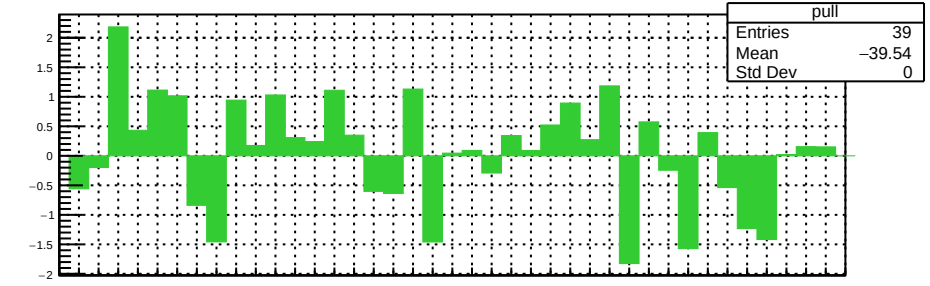

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.123e+04 / 38
p0 0.001741 ± 2.015e−06
0.0022
0.002
0.0018
0.0016
0.0014
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

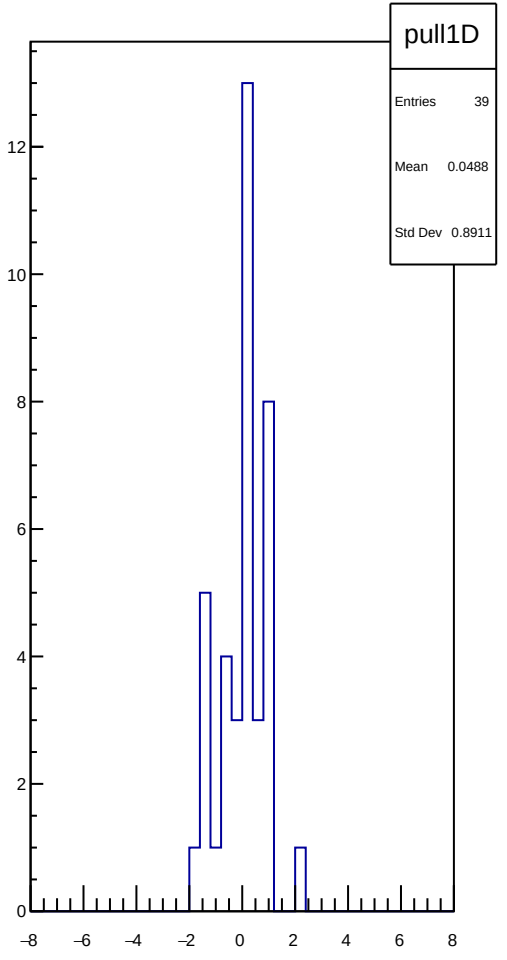

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.06 / 38
p0 −0.06416 ± 0.04841
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0488
Std Dev 0.8911
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

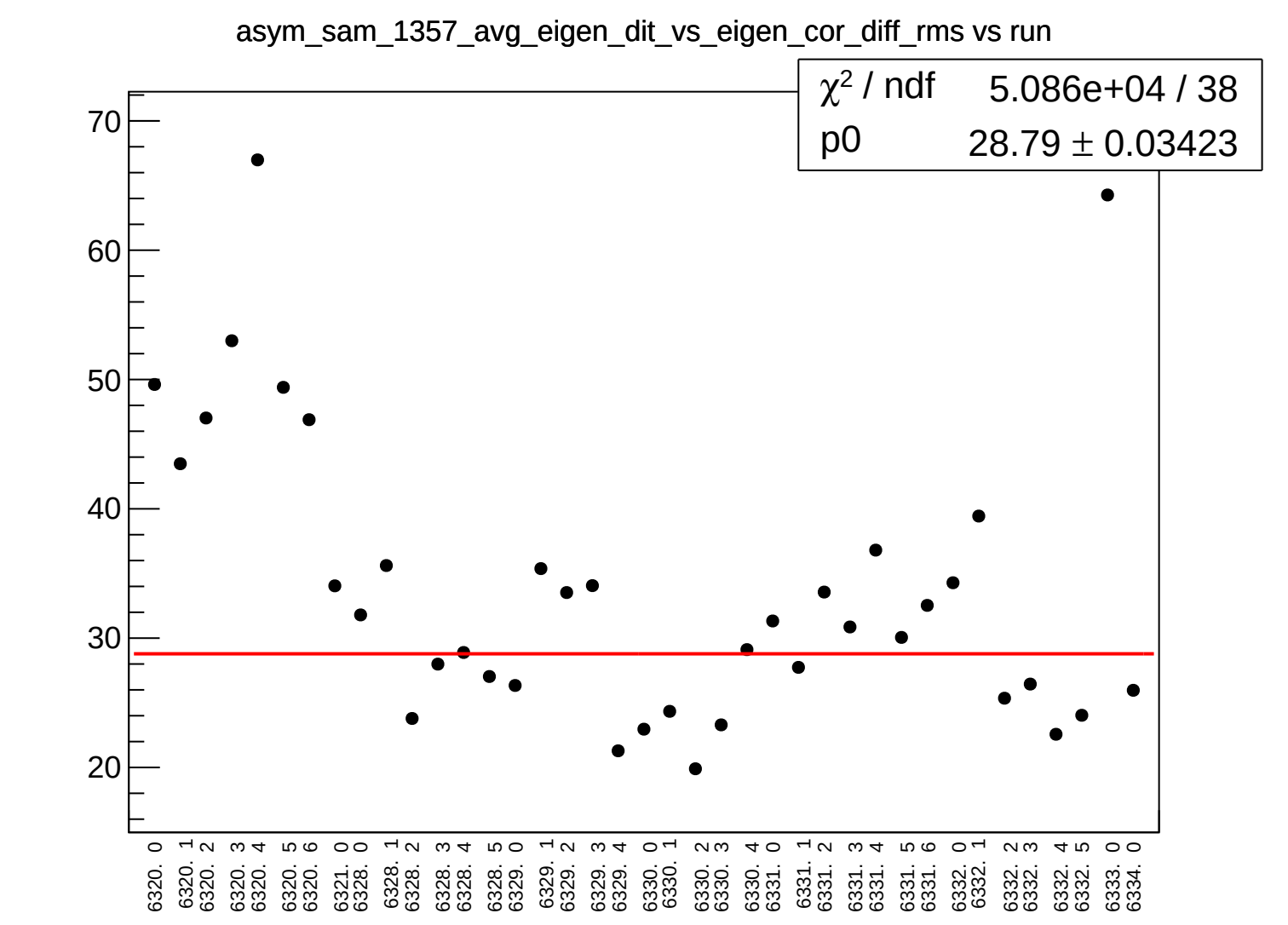

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.086e+04 / 38
p0 28.79 ± 0.03423
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

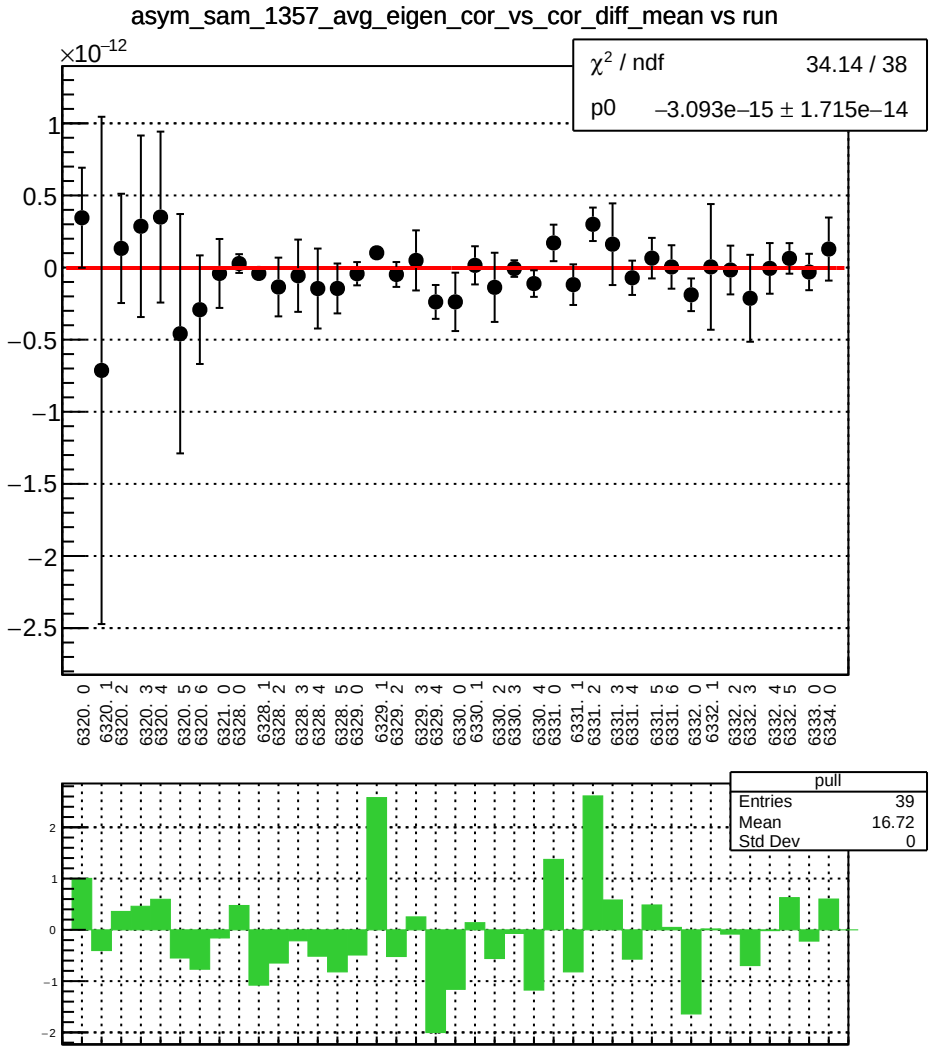
asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

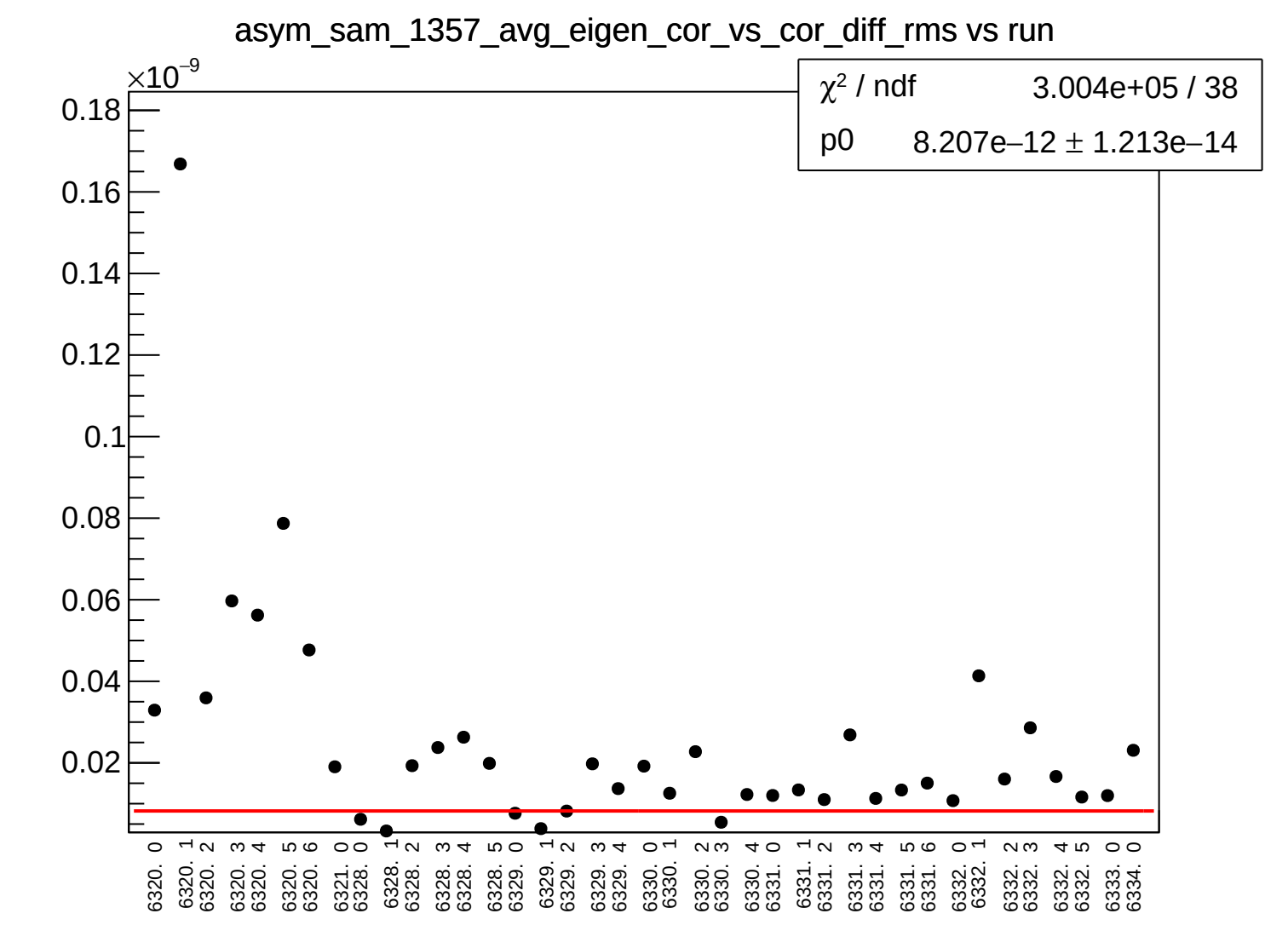


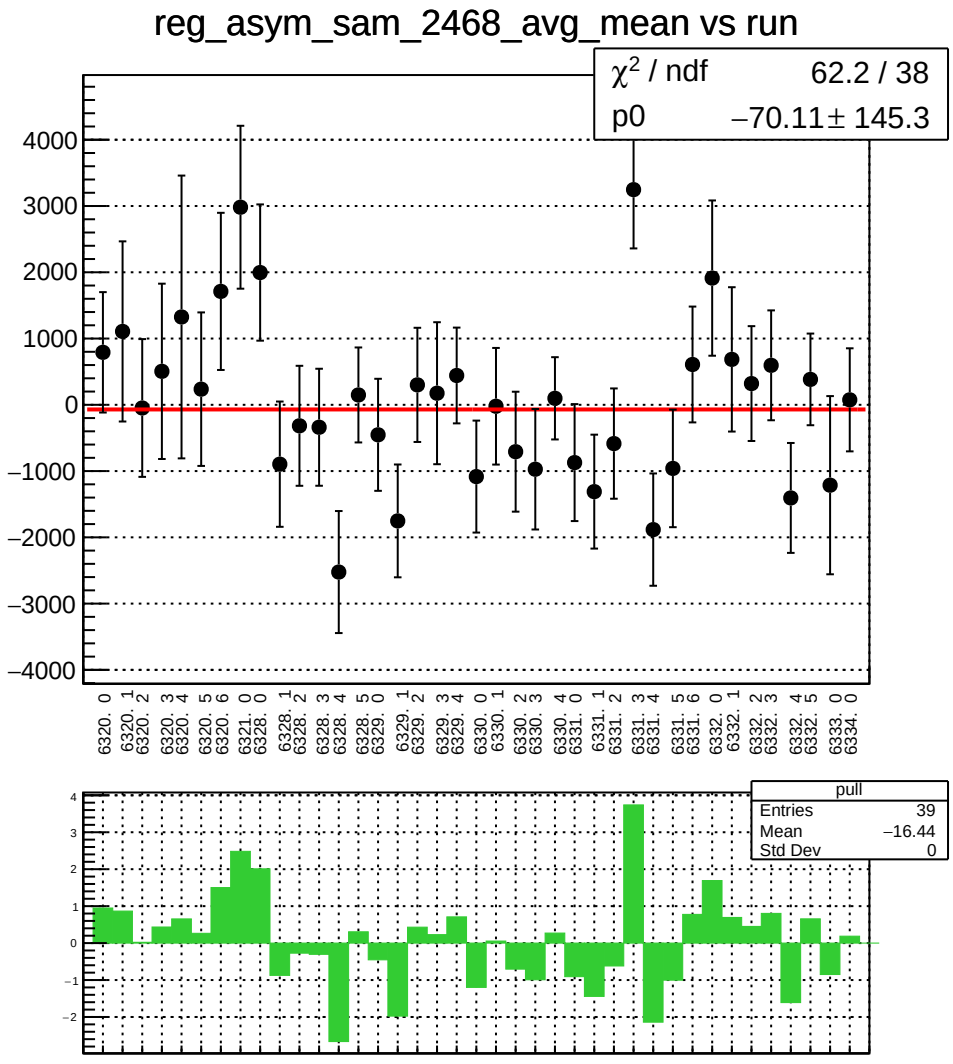


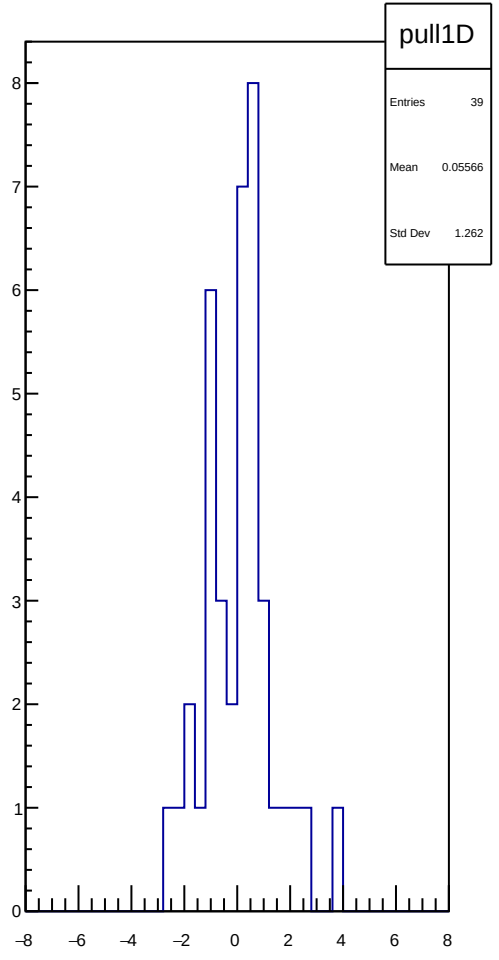


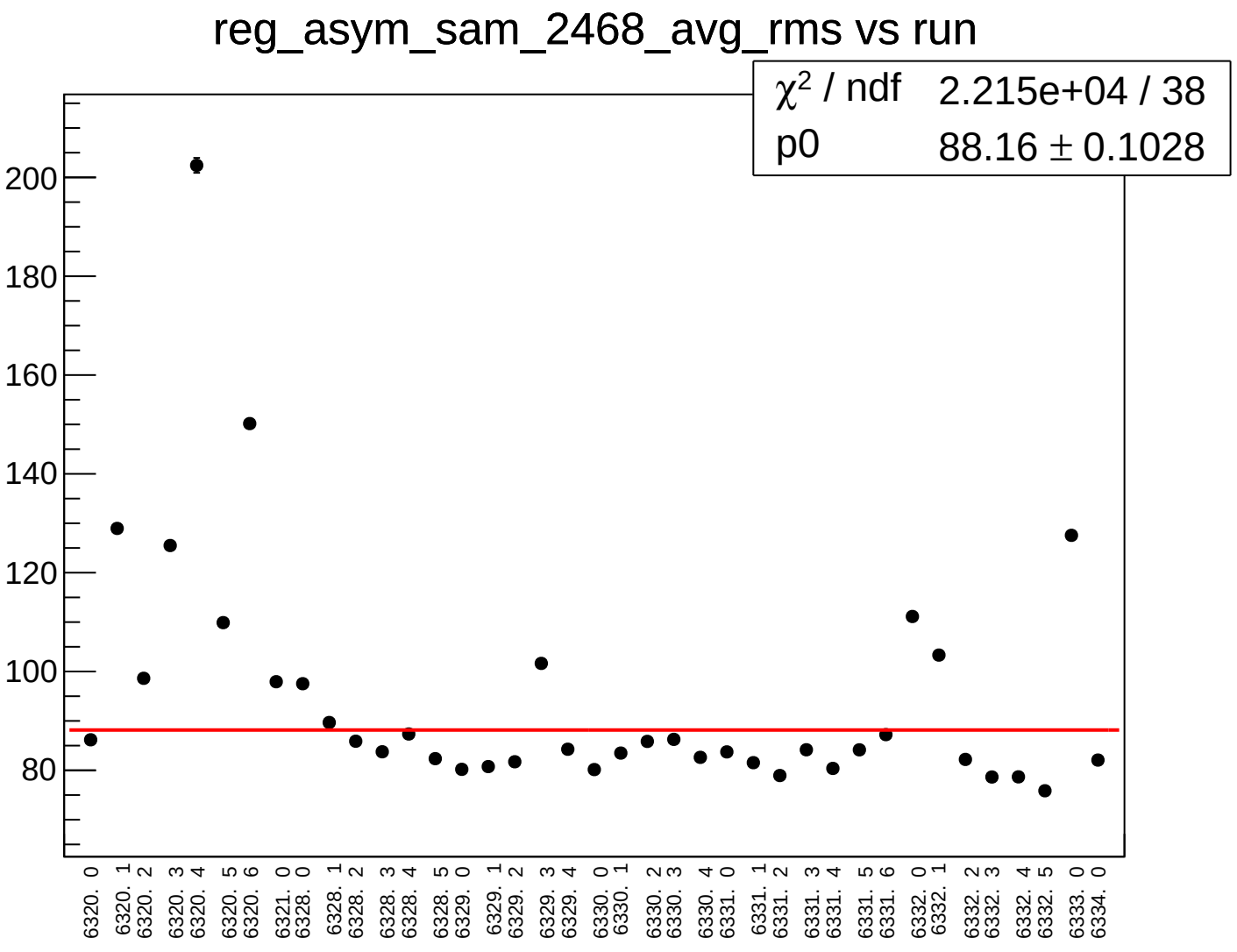

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.086e+04 / 38
p0 28.79 ± 0.03423
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

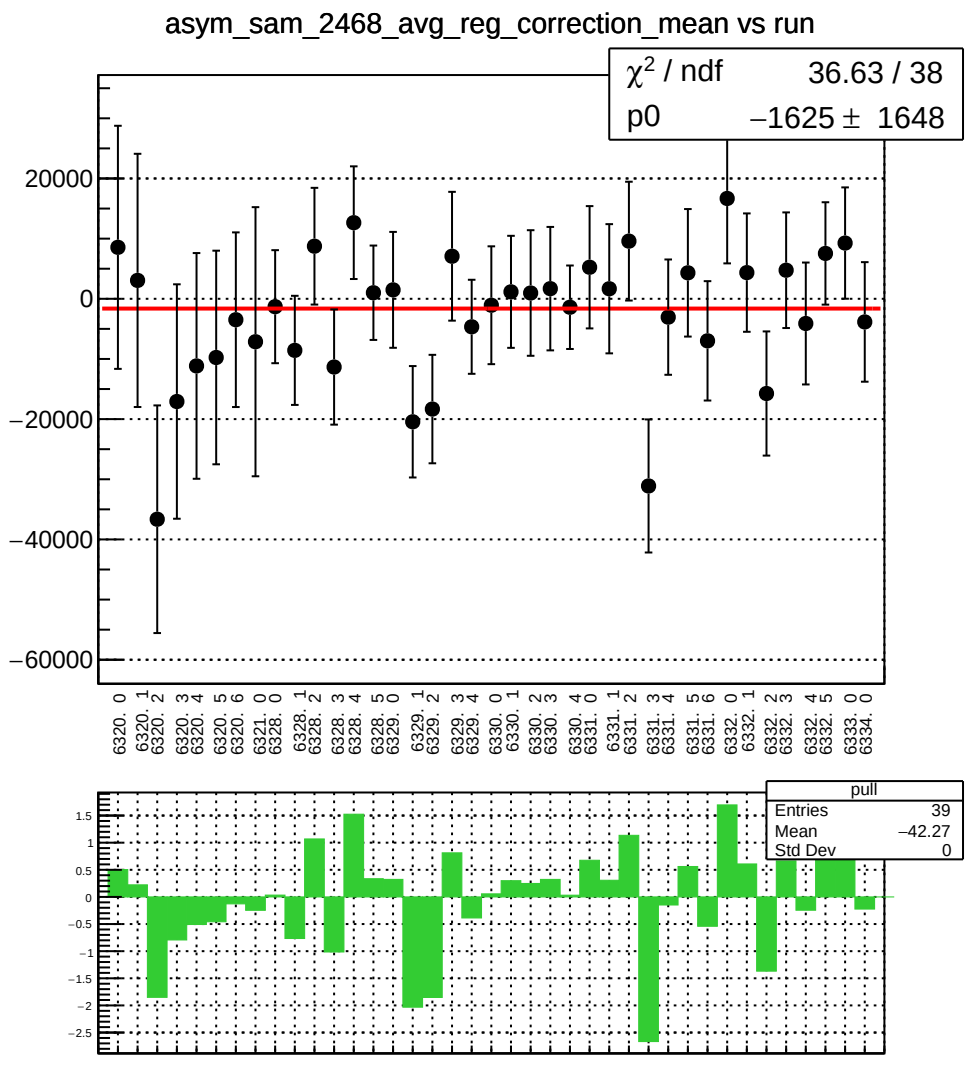

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.14 / 38
p0 −3.093e−15 ± 1.715e−14
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 16.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07601
Std Dev 0.9325
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

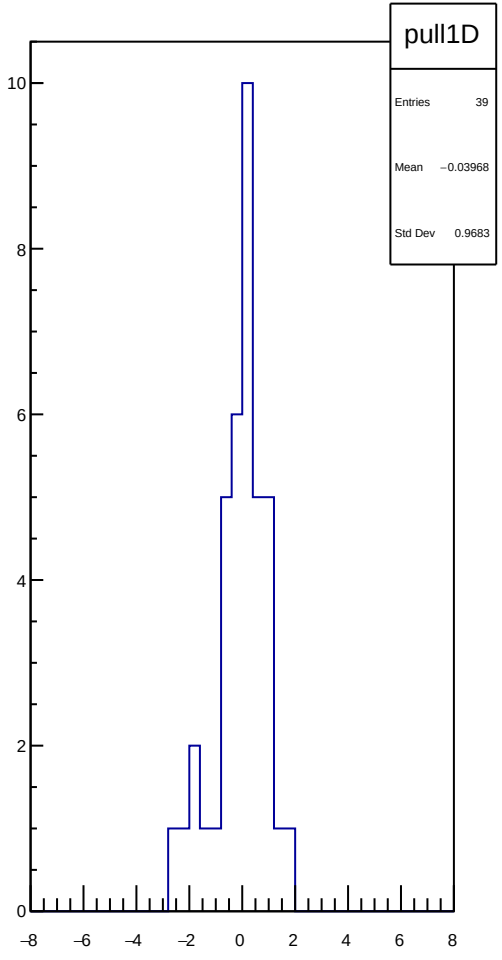

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.004e+05 / 38
p0 8.207e−12 ± 1.213e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

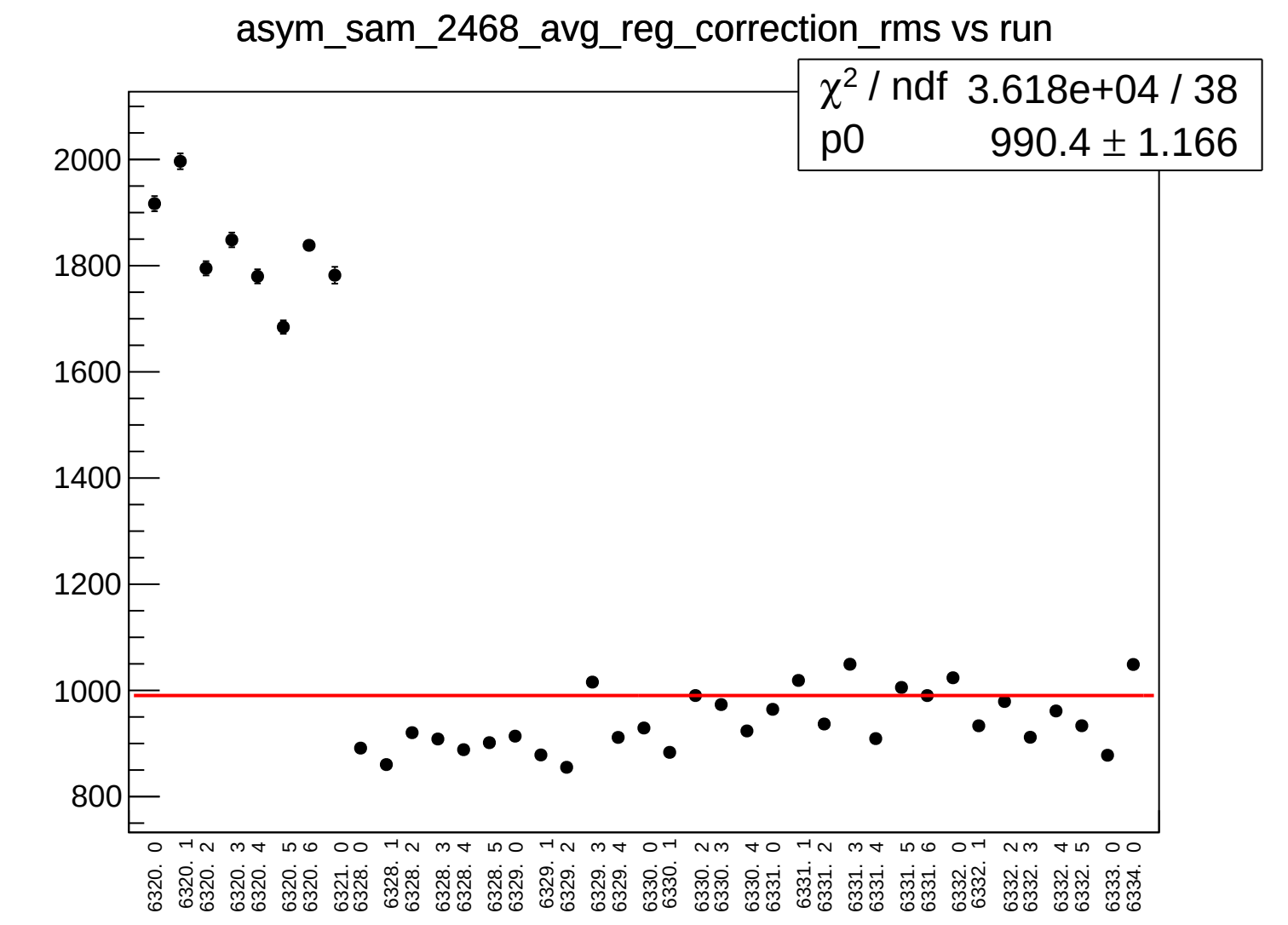

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 62.2 / 38
p0 −70.11 ± 145.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.44
Std Dev 0
4
3
2
1
0
−1
−2

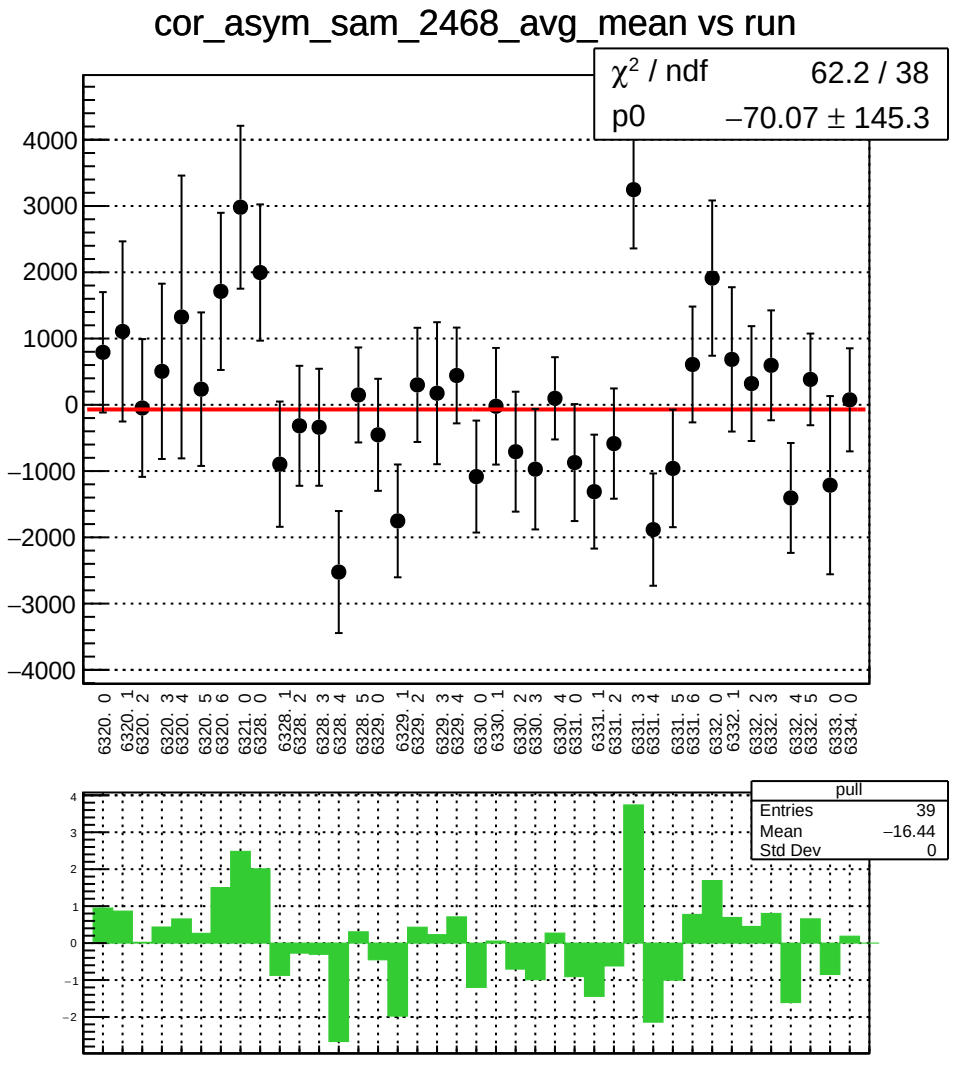

pull1D
Entries 39
Mean 0.05566
Std Dev 1.262
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

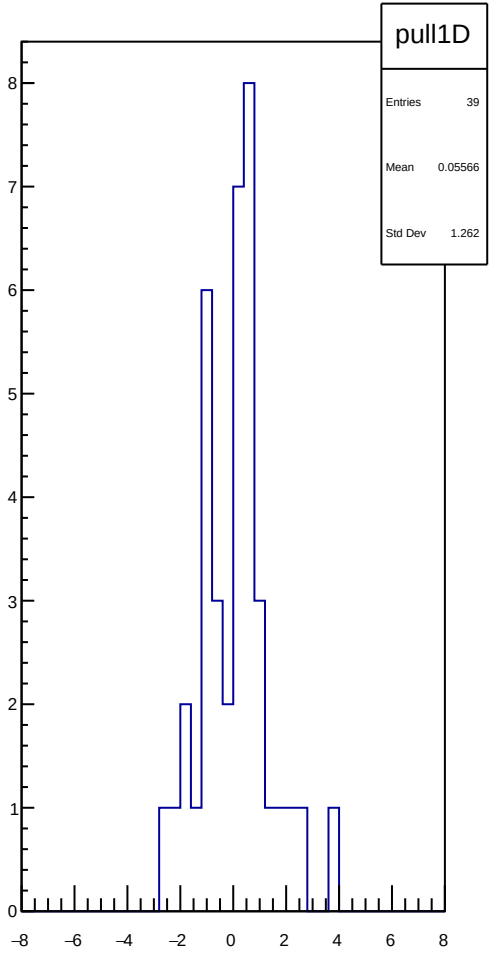

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.215e+04 / 38
p0 88.16 ± 0.1028
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

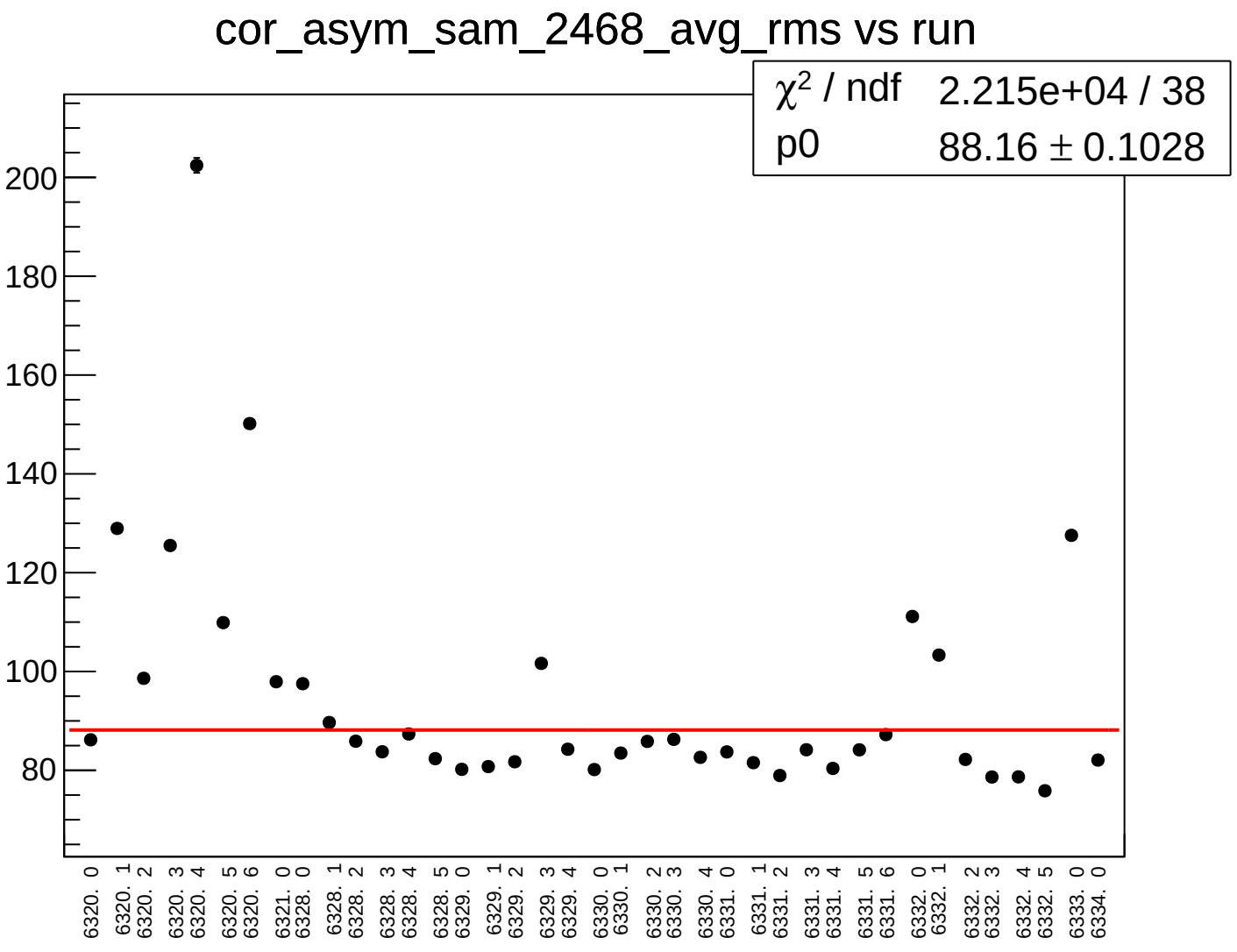

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 36.63 / 38
p0 −1625 ± 1648
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

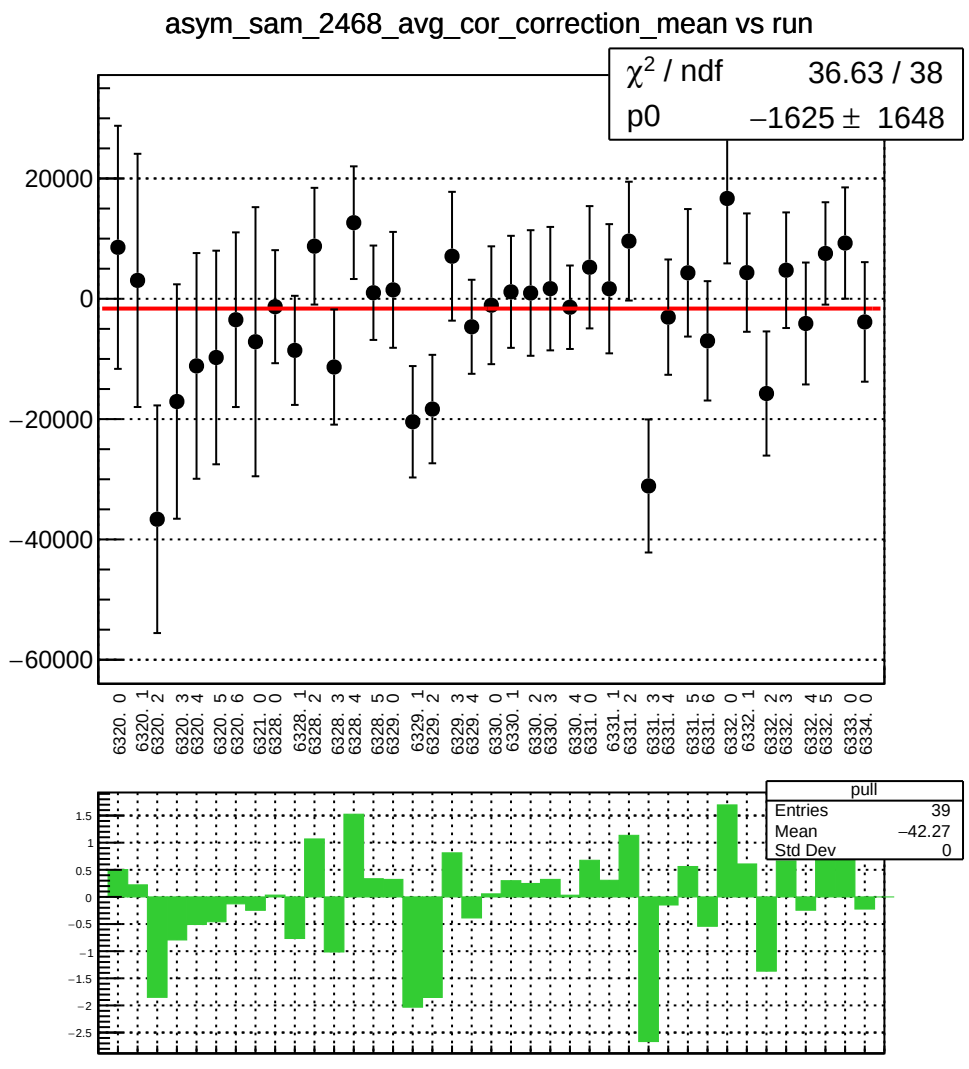

pull1D
Entries 39
Mean −0.03968
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

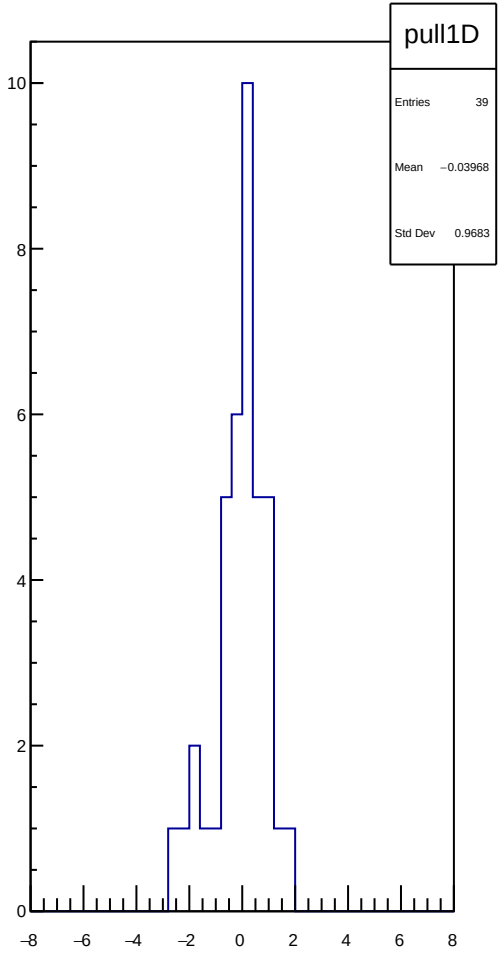

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3.618e+04 / 38
p0 990.4 ± 1.166
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

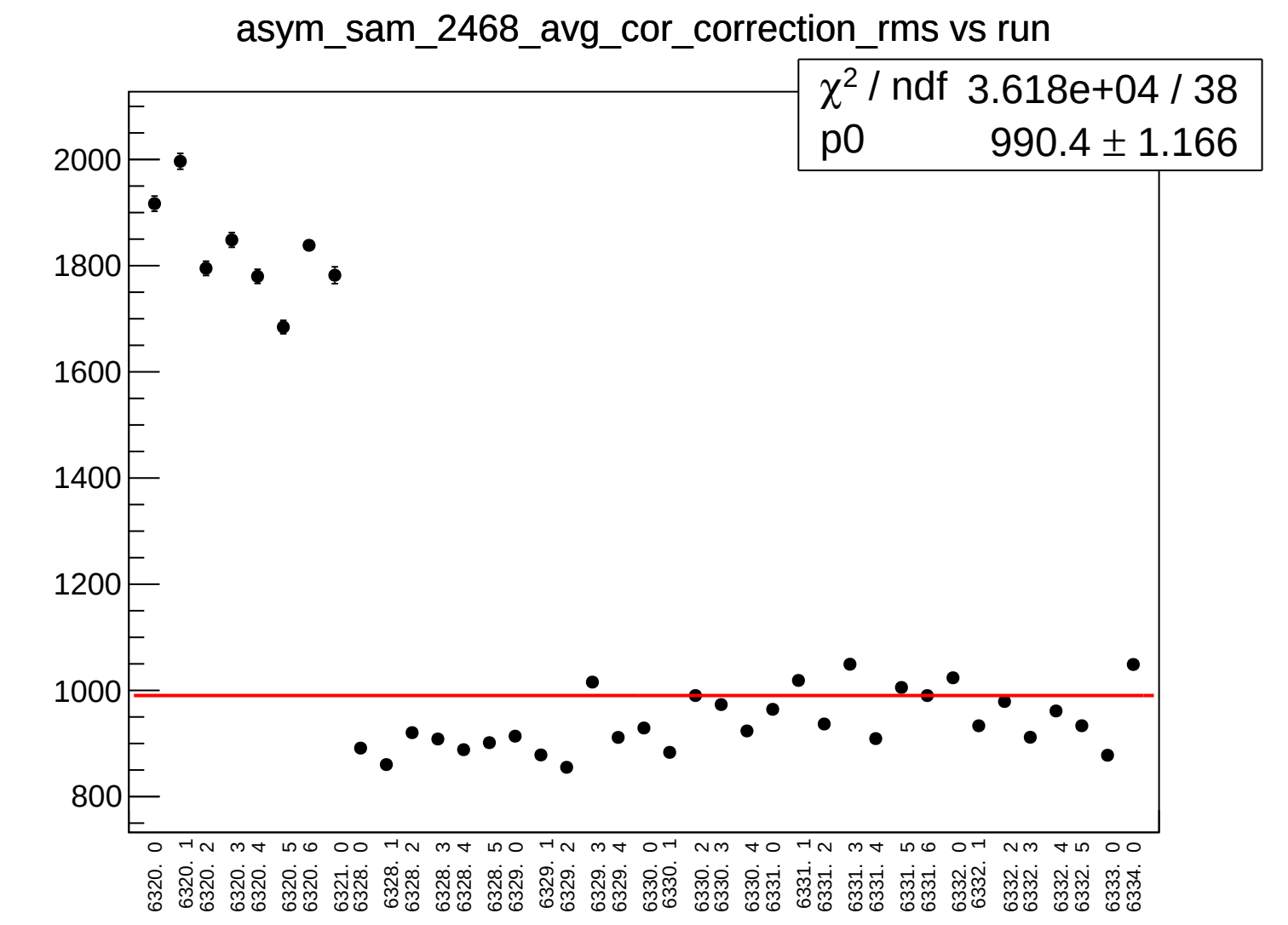

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 62.2 / 38
p0 −70.07 ± 145.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.44
Std Dev 0
4
3
2
1
0
−1
−2

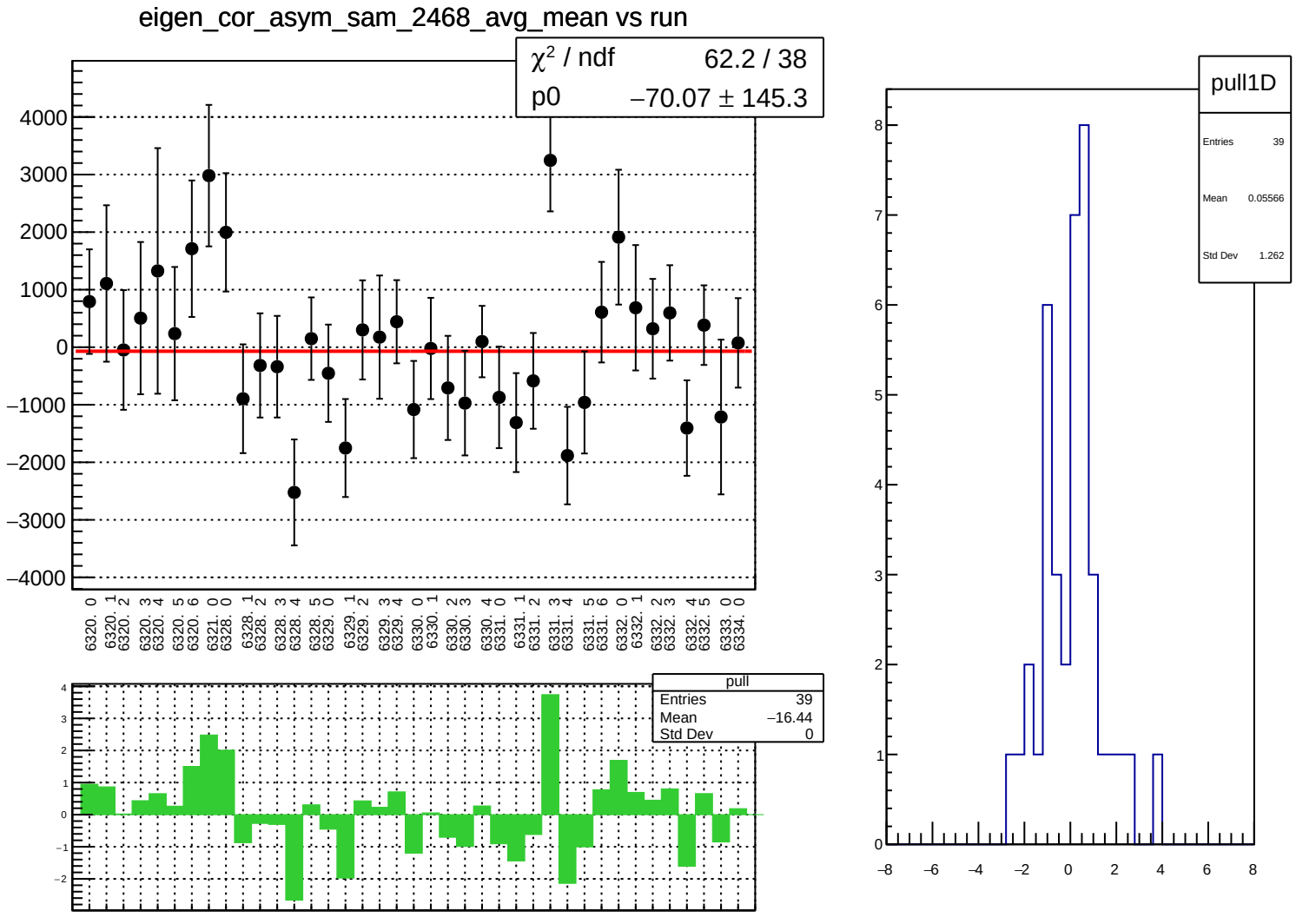

pull1D
Entries 39
Mean 0.05566
Std Dev 1.262
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

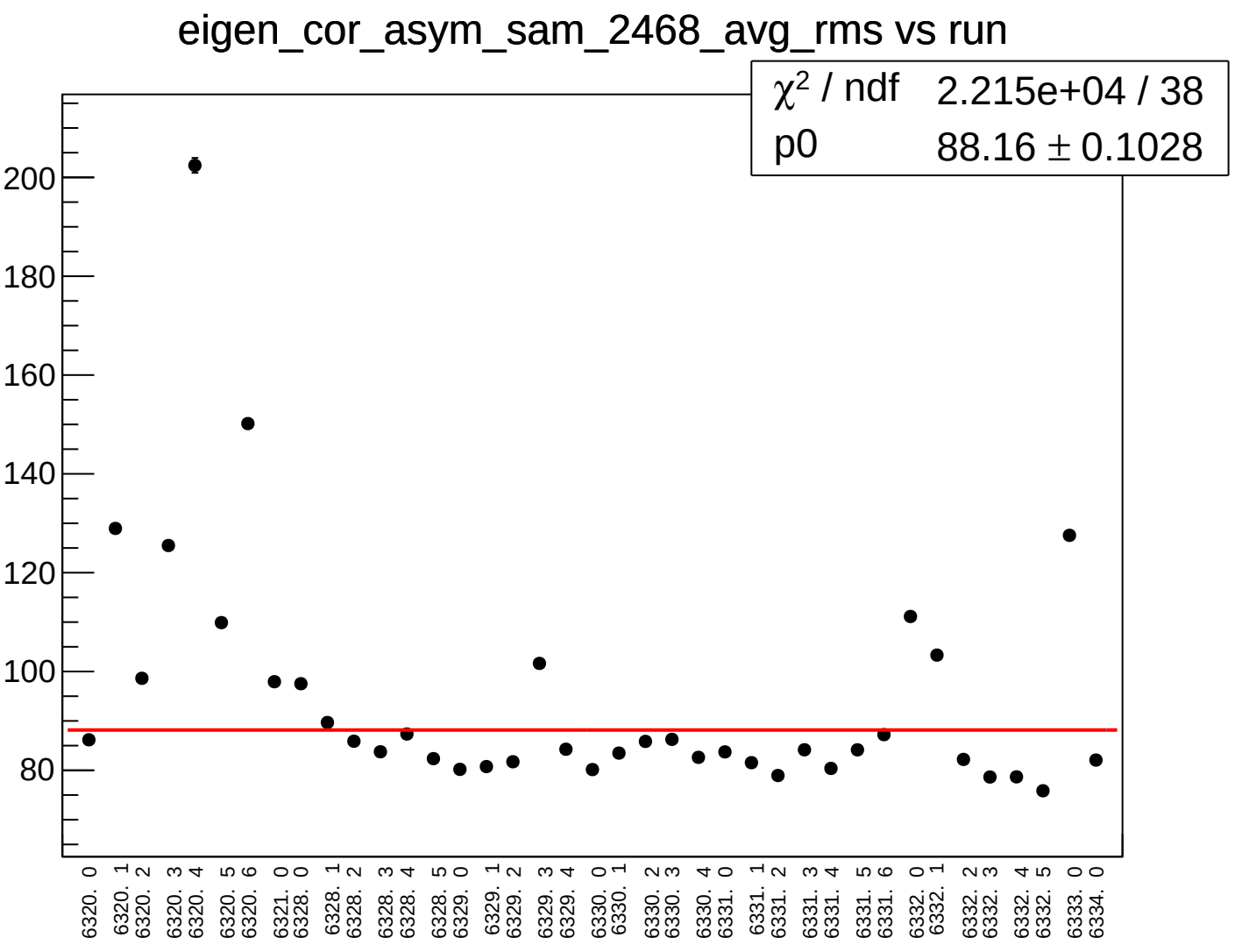

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.215e+04 / 38
p0 88.16 ± 0.1028
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

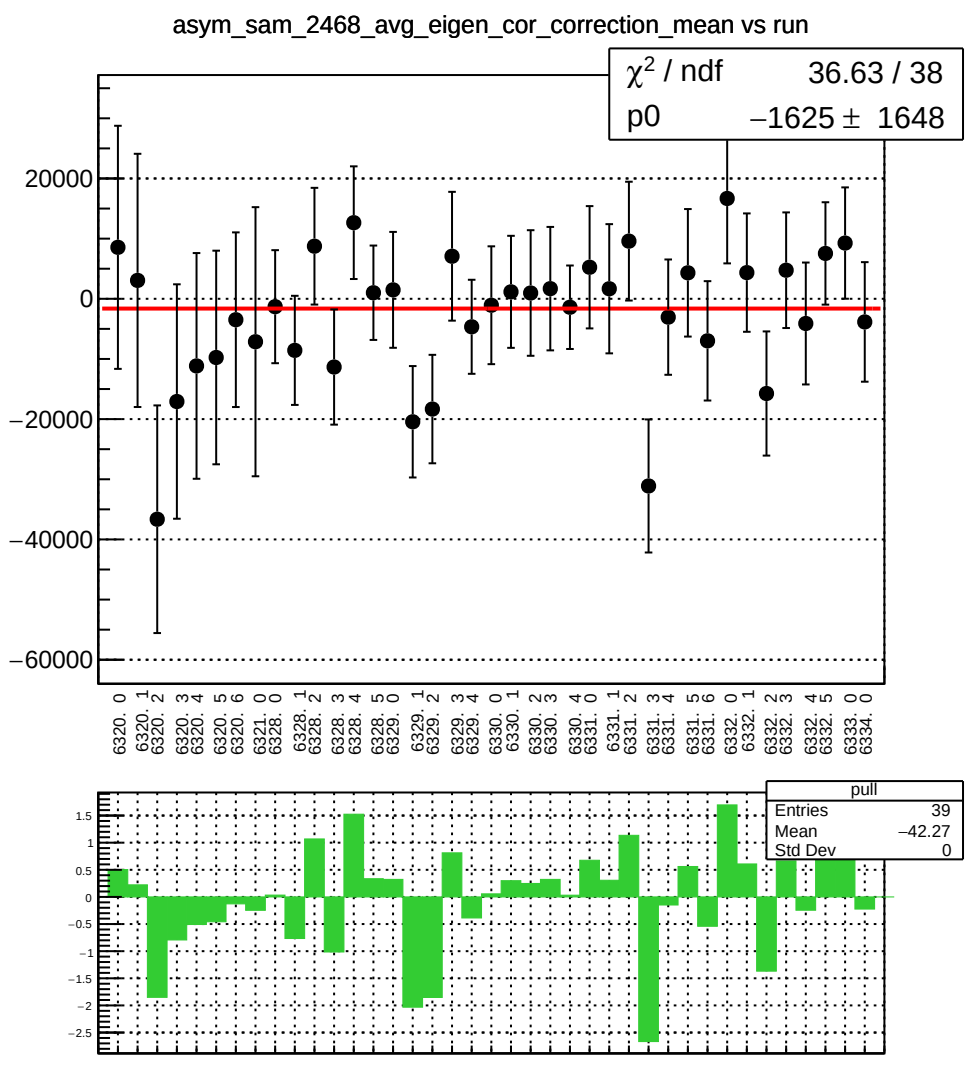

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 36.63 / 38
p0 −1625 ± 1648
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

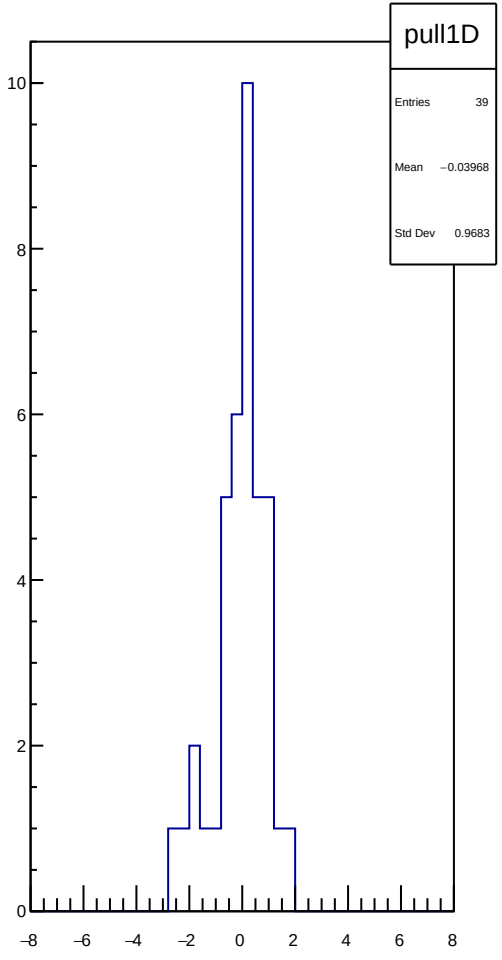

pull1D
Entries 39
Mean −0.03968
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

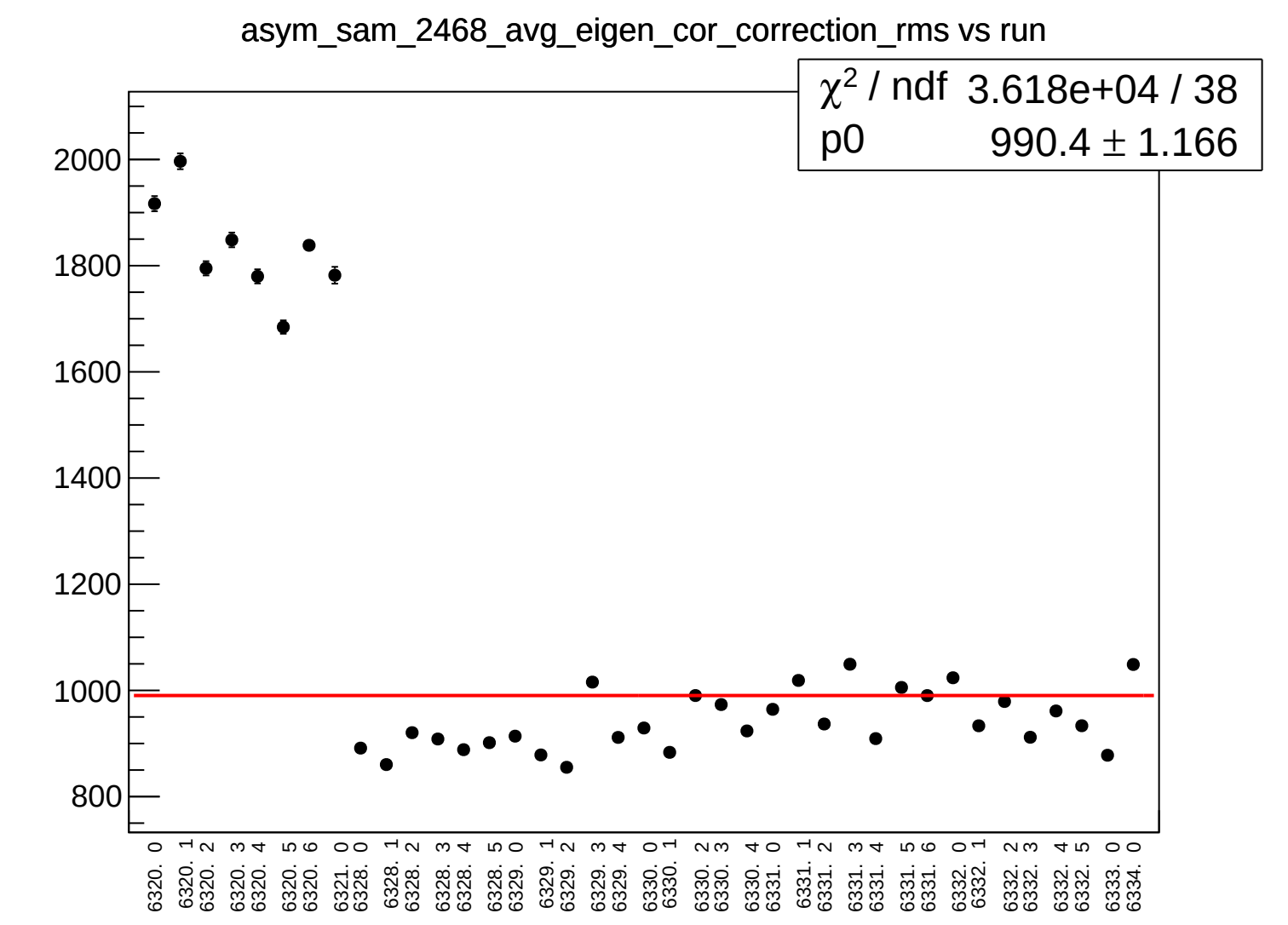

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3.618e+04 / 38
p0 990.4 ± 1.166
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

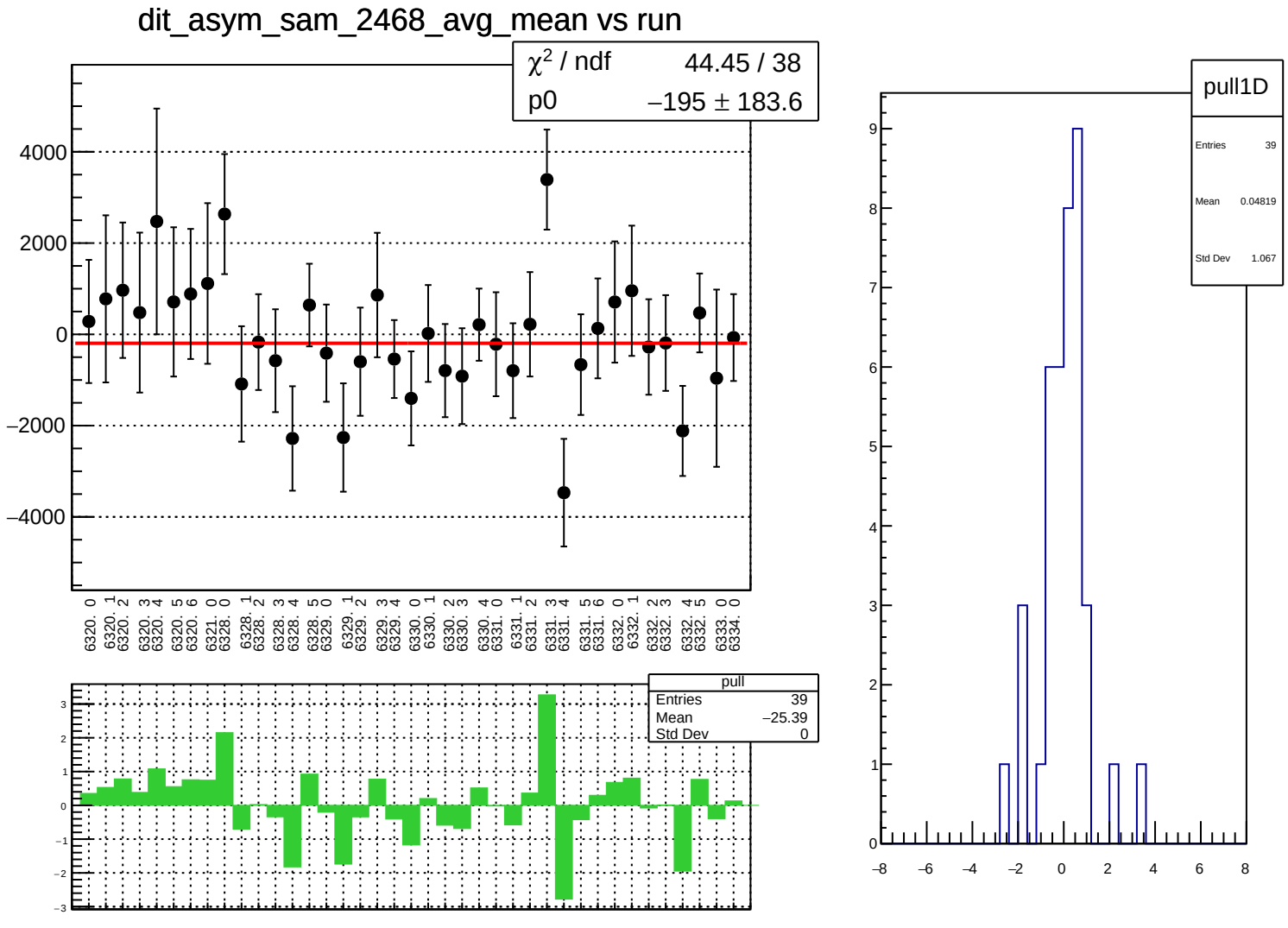

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 62.2 / 38
p0 −70.07 ± 145.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.44
Std Dev 0
pull1D
Entries 39
Mean 0.05566
Std Dev 1.262

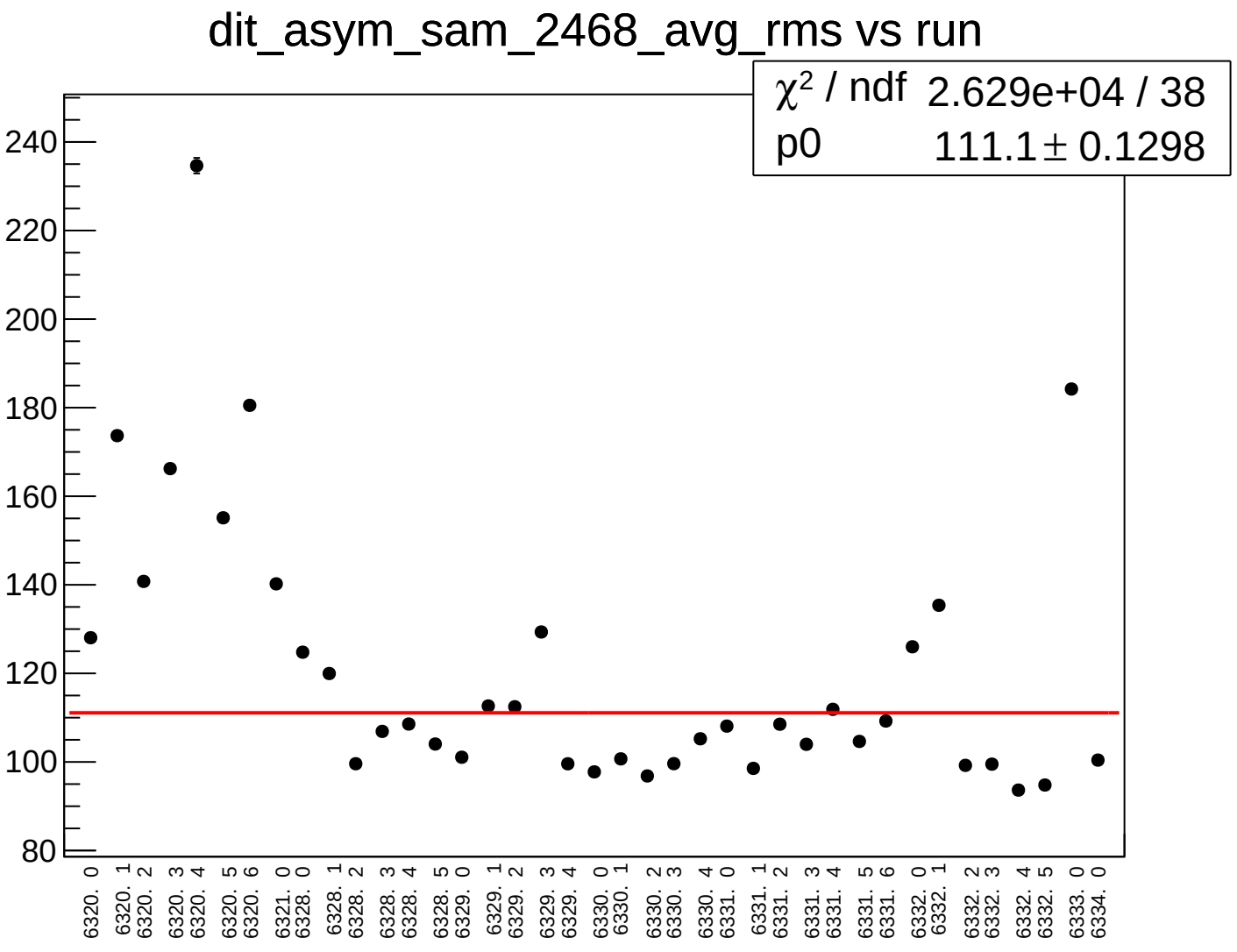

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.215e+04 / 38
p0 88.16 ± 0.1028
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

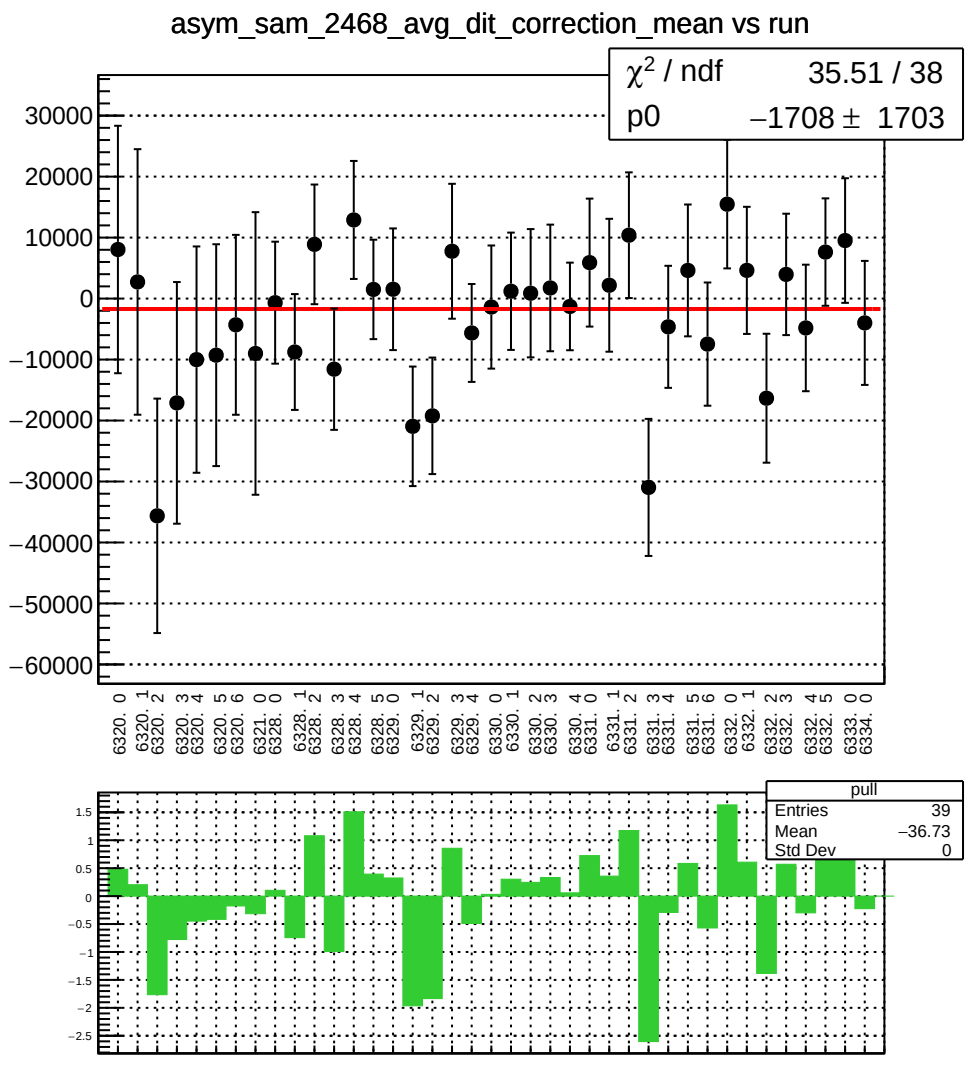

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 36.63 / 38
p0 −1625 ± 1648
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

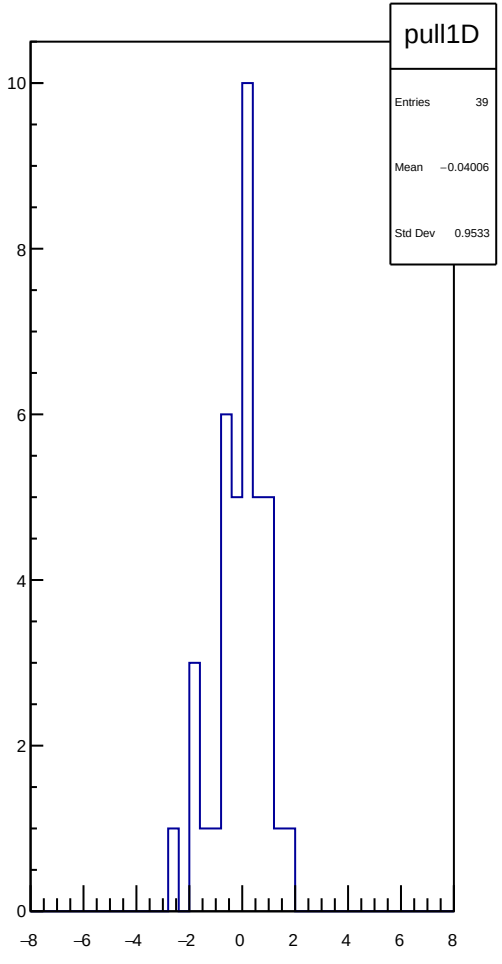

pull1D
Entries 39
Mean −0.03968
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

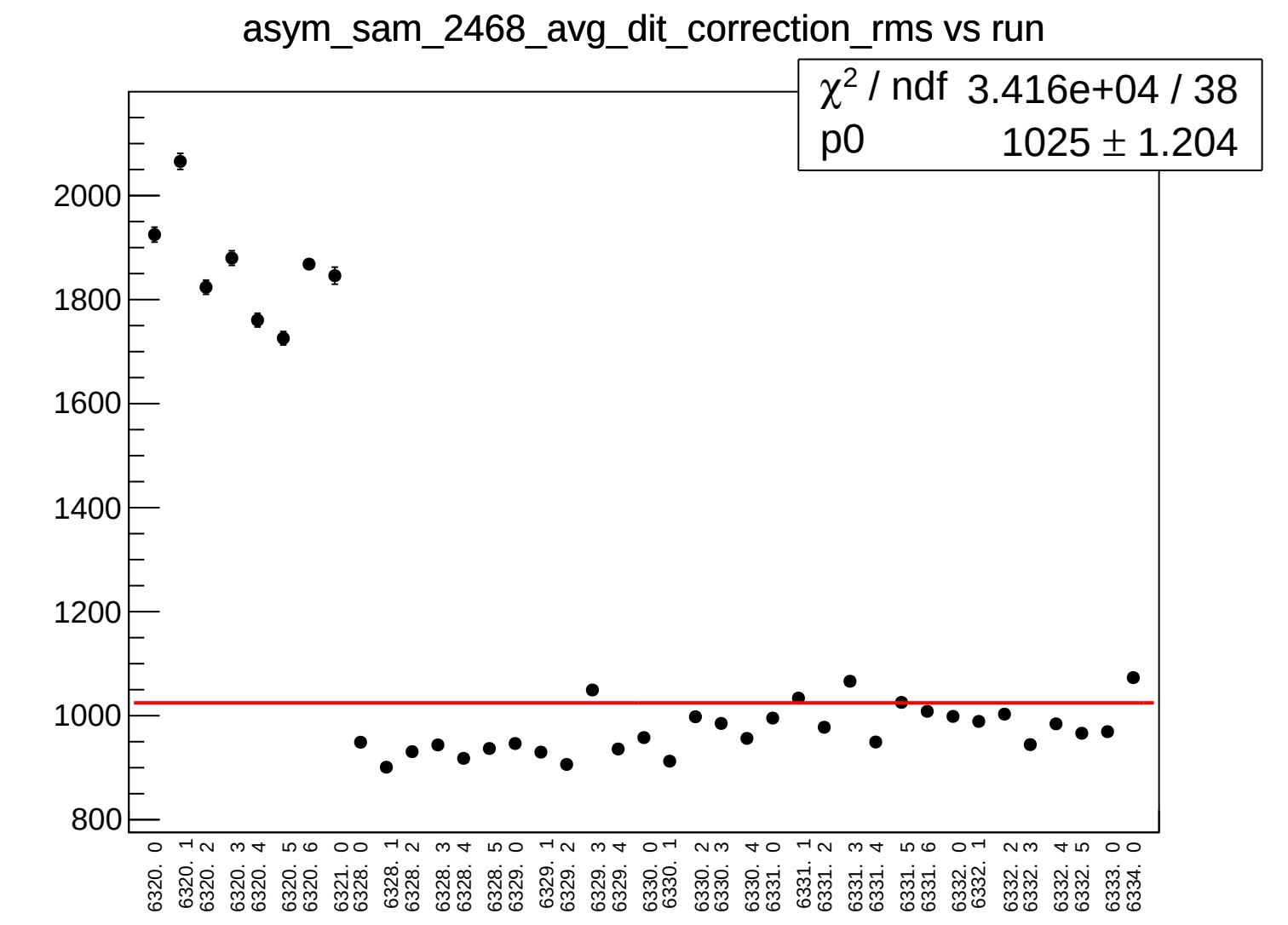

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.618e+04 / 38
p0 990.4 ± 1.166
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

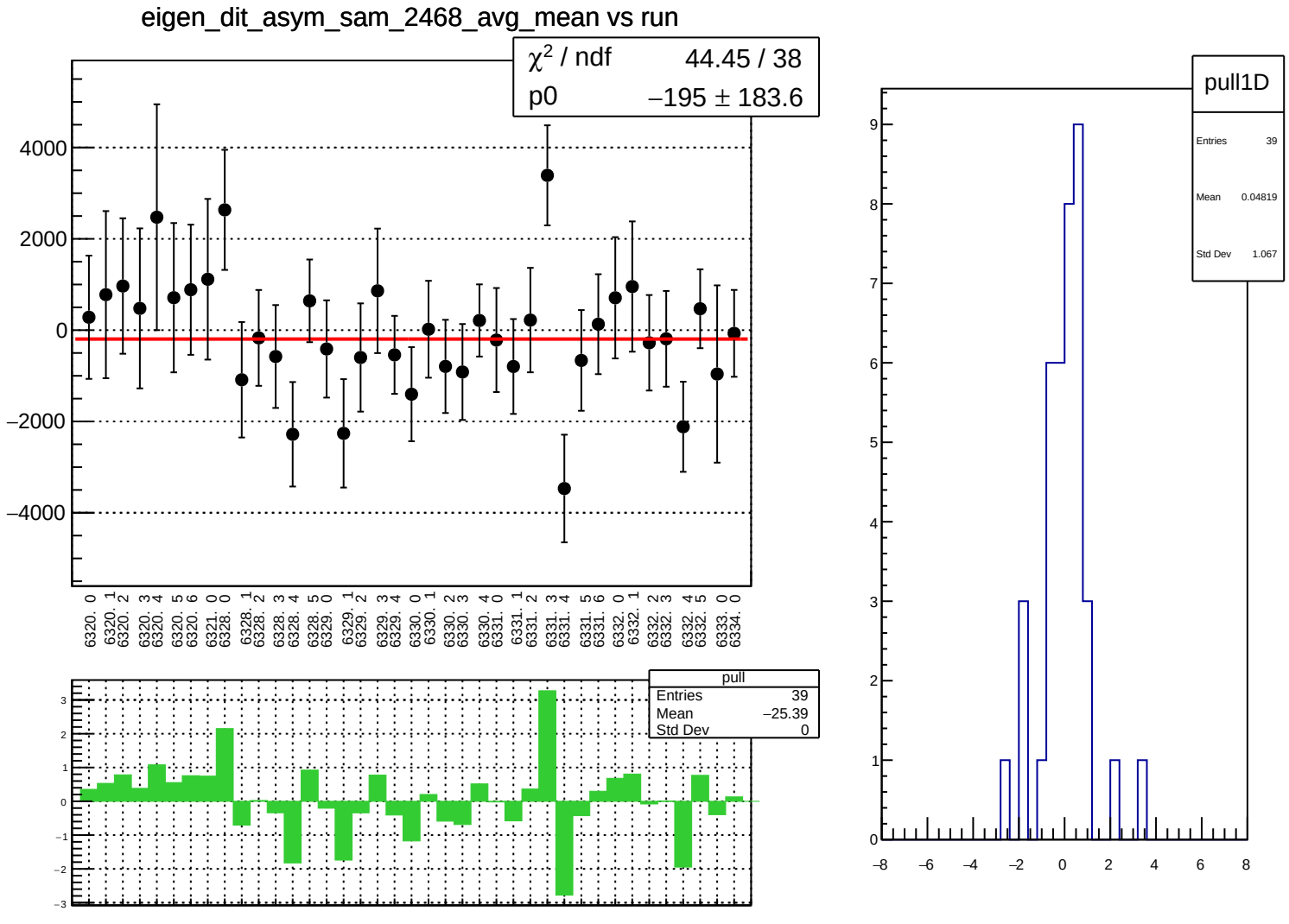

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 44.45 / 38
p0 −195 ± 183.6
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.39
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.04819
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

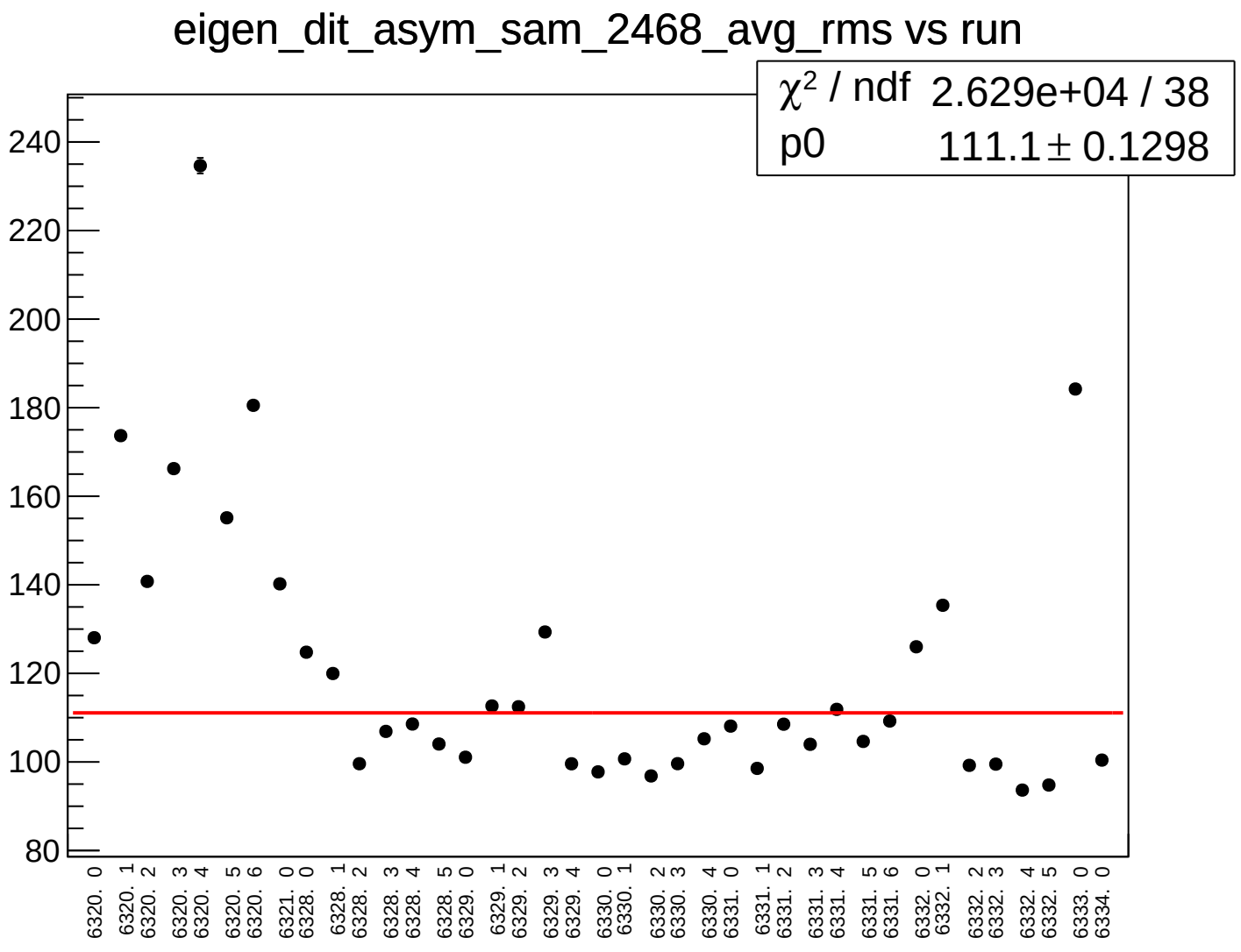

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.629e+04 / 38
p0 111.1 ± 0.1298
240
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

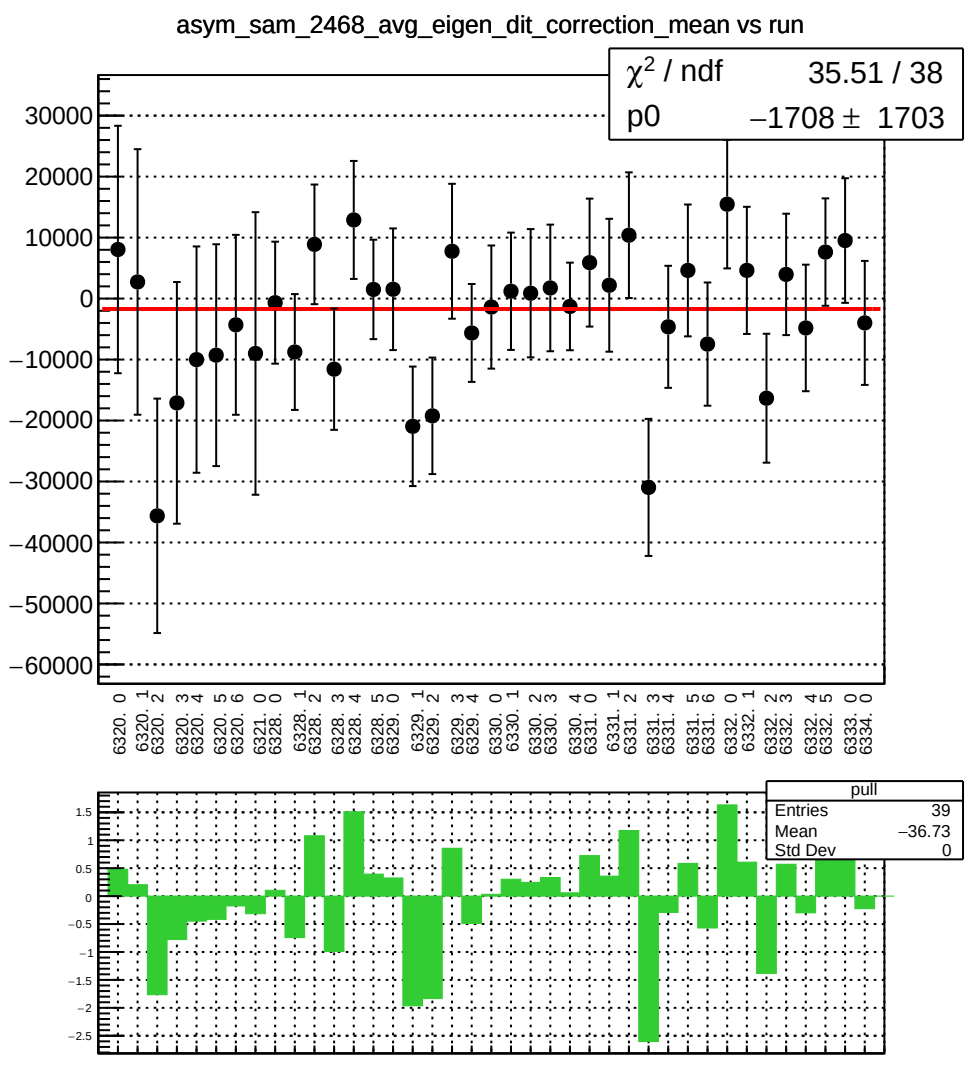

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 35.51 / 38
p0 −1708 ± 1703
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

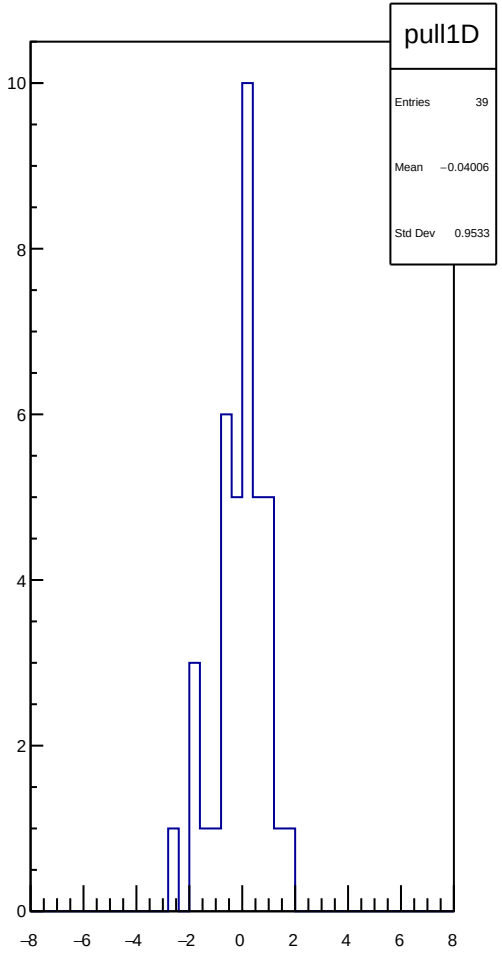

pull1D
Entries 39
Mean −0.04006
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

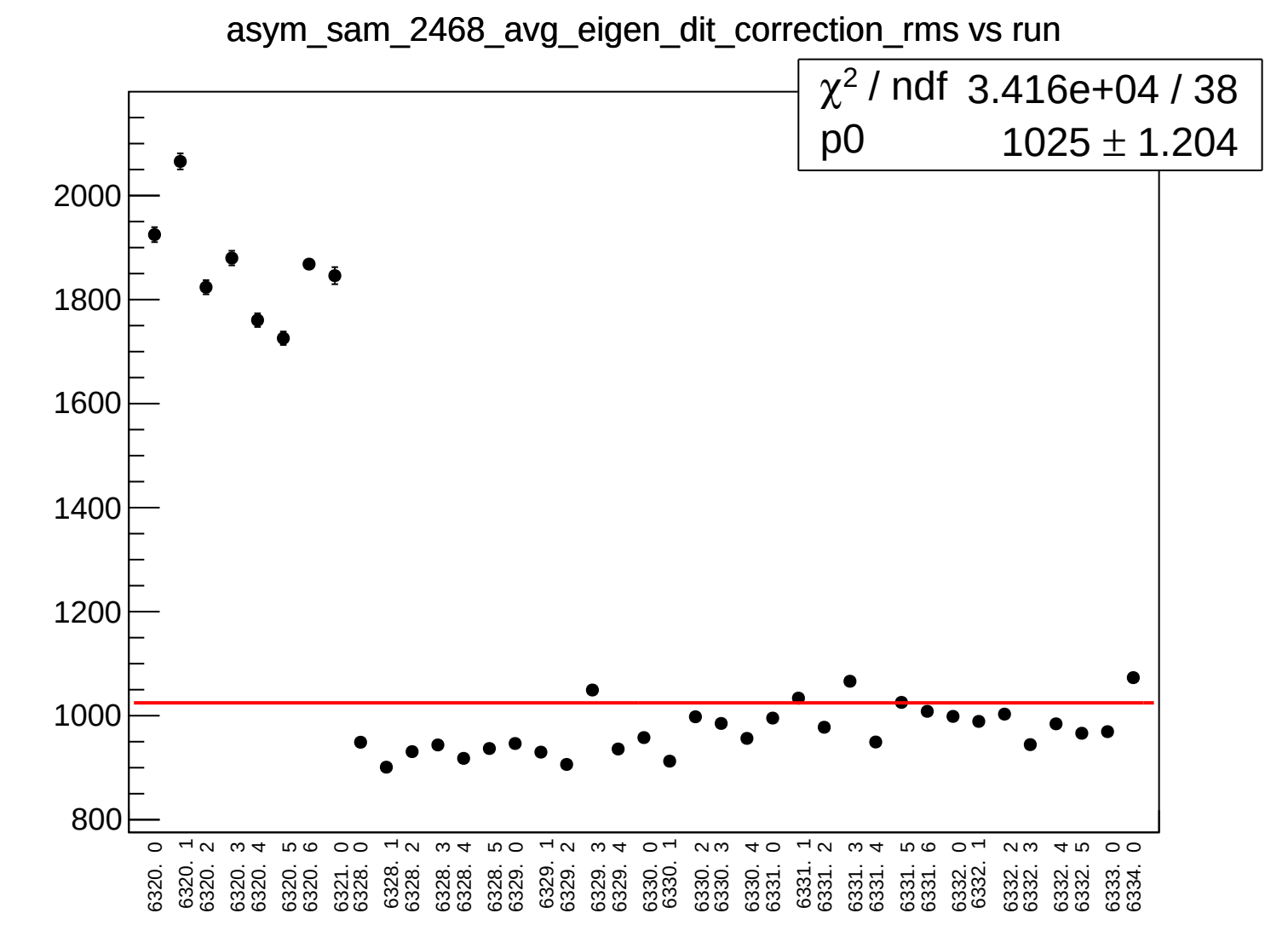

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3.416e+04 / 38
p0 1025 ± 1.204
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

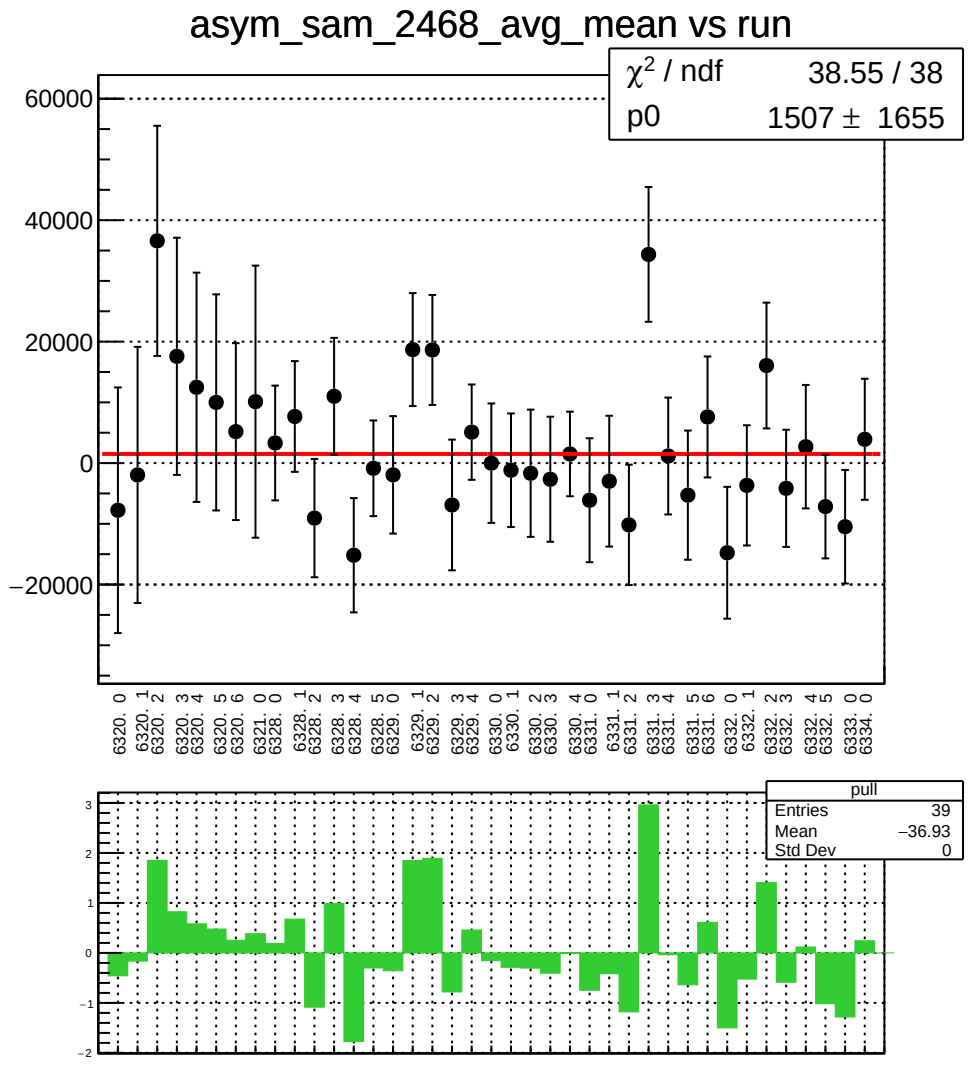

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 44.45 / 38
p0 −195 ± 183.6
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.39
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.04819
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

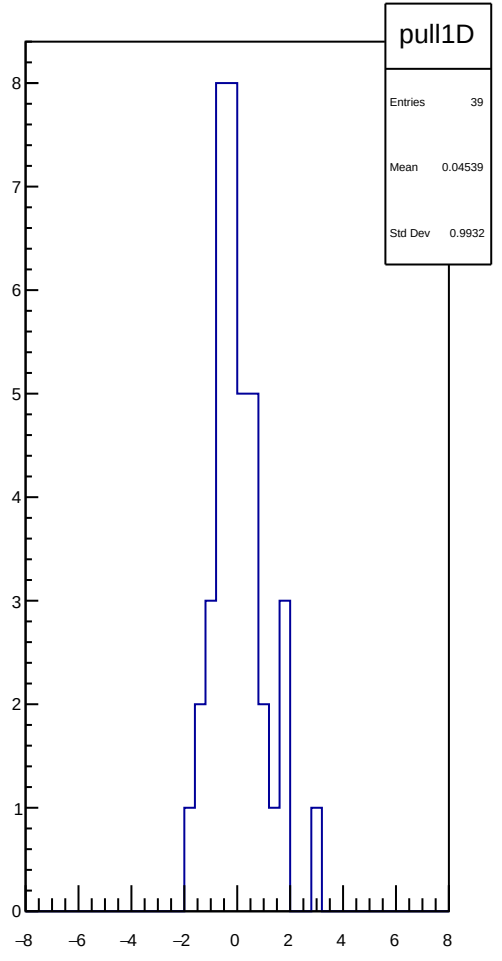

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.629e+04 / 38
p0 111.1 ± 0.1298
240
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

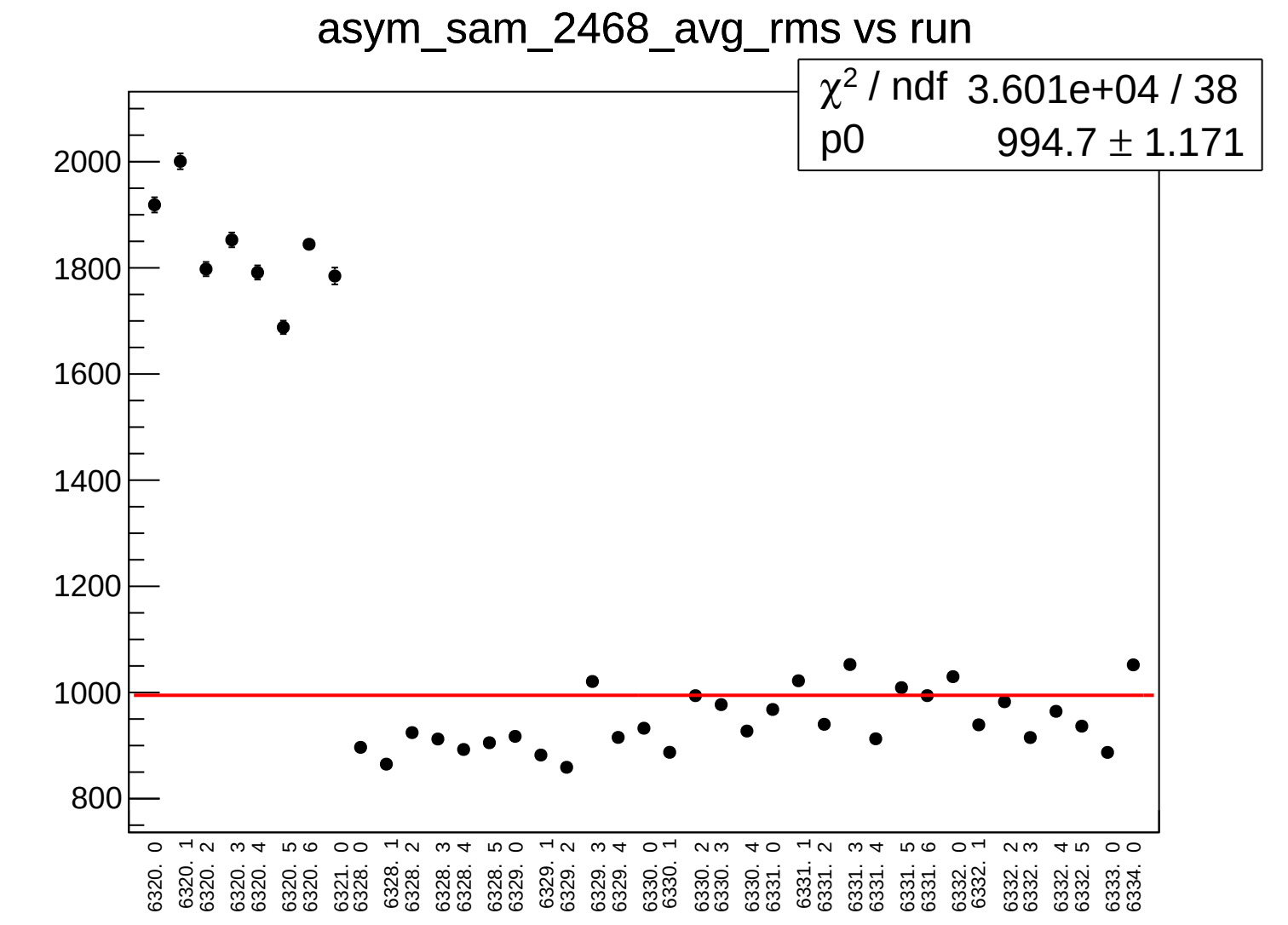

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.51 / 38
p0 −1708 ± 1703
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

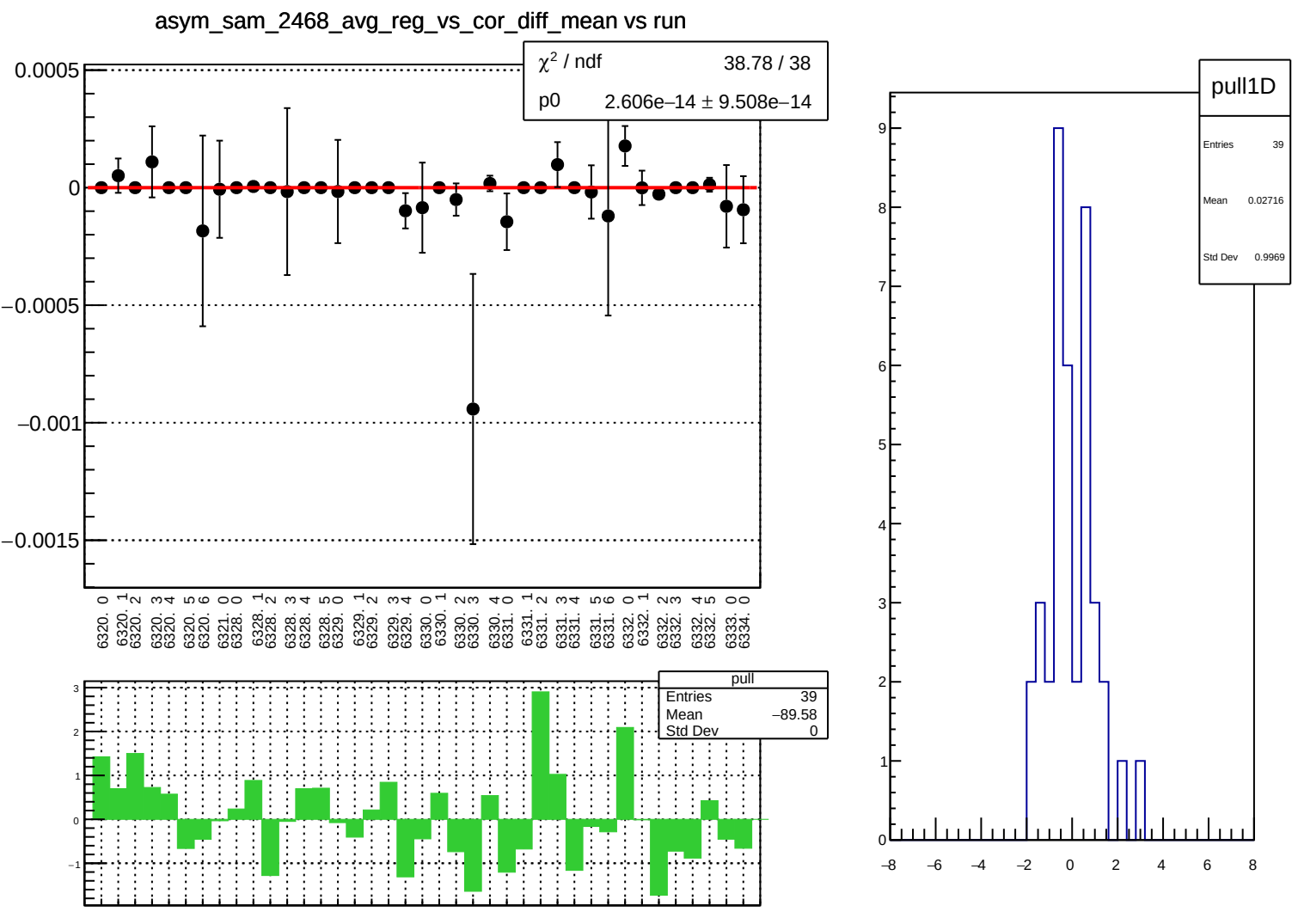

pull1D
Entries 39
Mean −0.04006
Std Dev 0.9533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

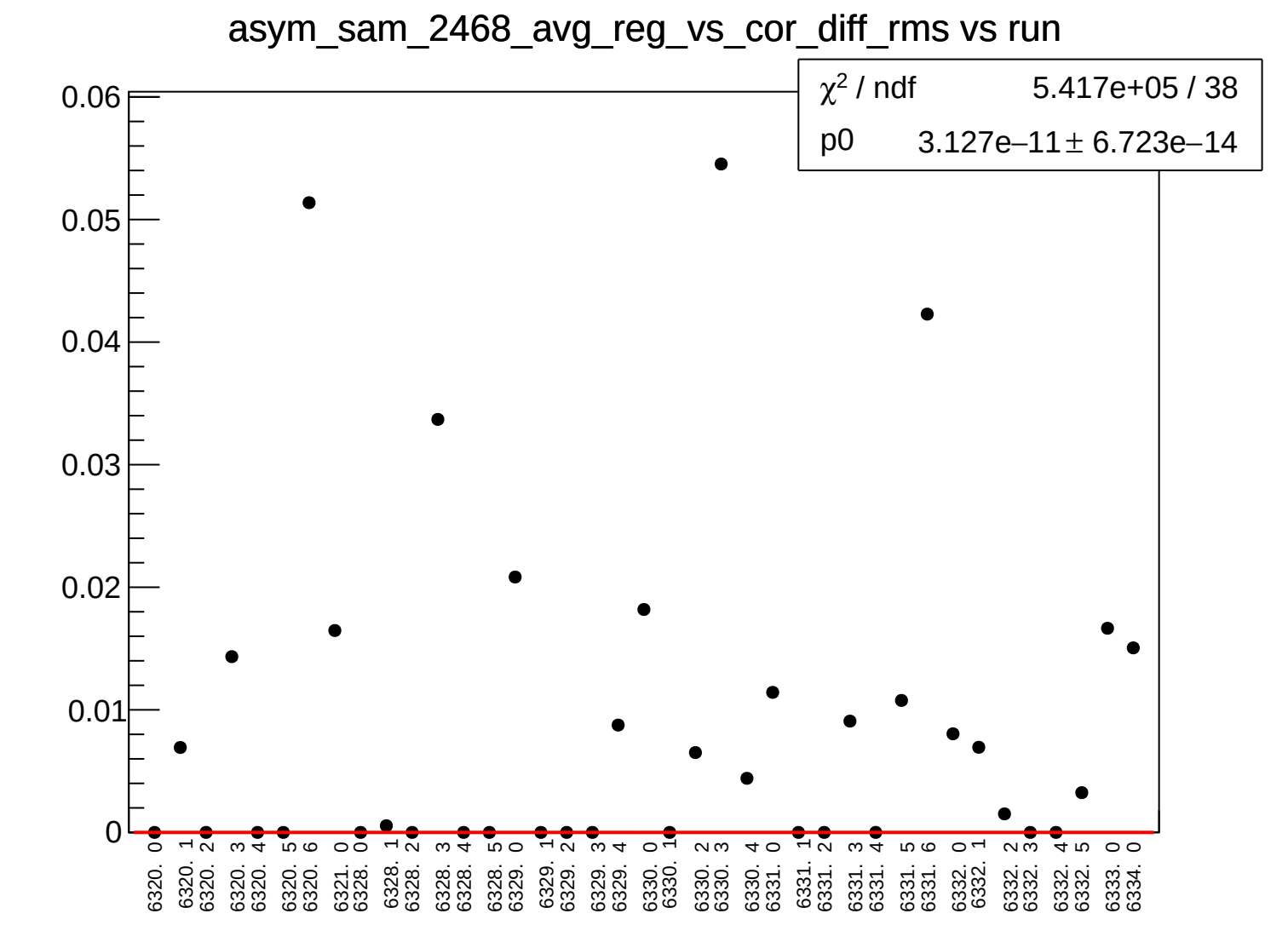

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.416e+04 / 38
p0 1025 ± 1.204
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

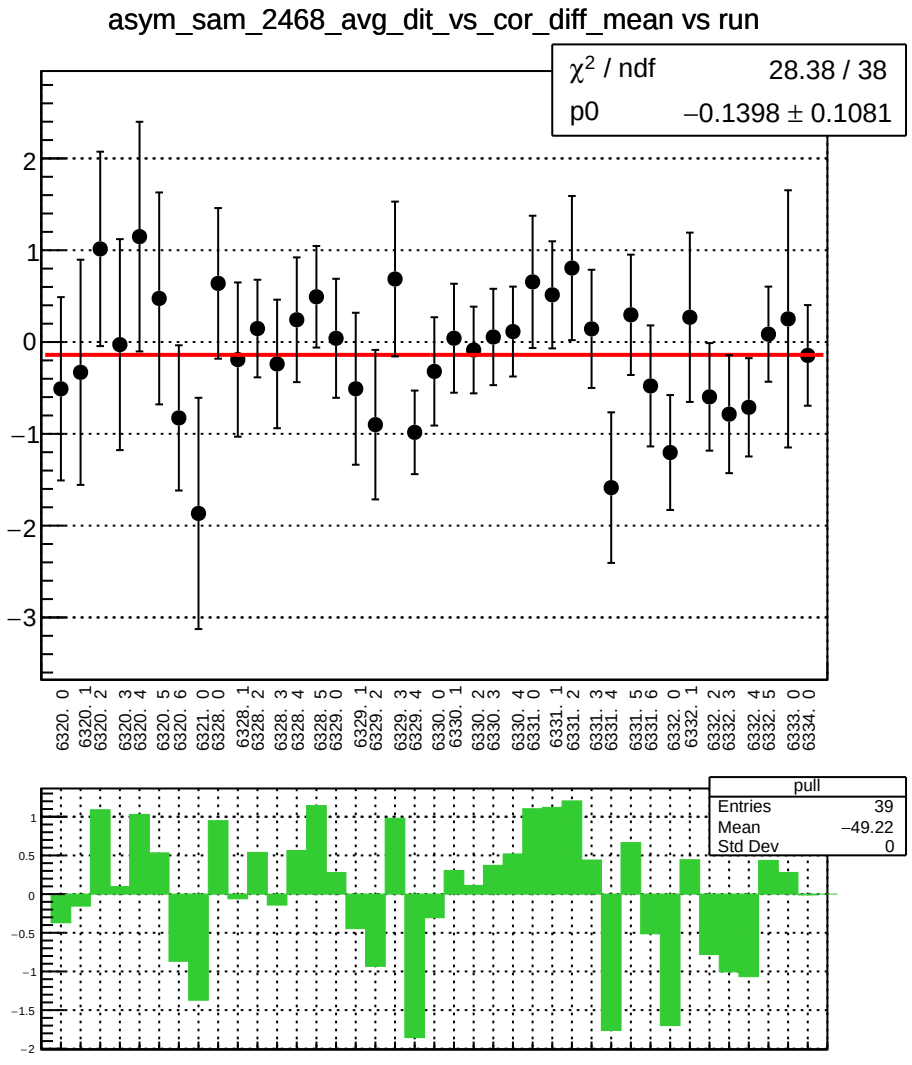

asym_sam_2468_avg_mean vs run
χ² / ndf 38.55 / 38
p0 1507 ± 1655
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.93
Std Dev 0
3
2
1
0
−1
−2

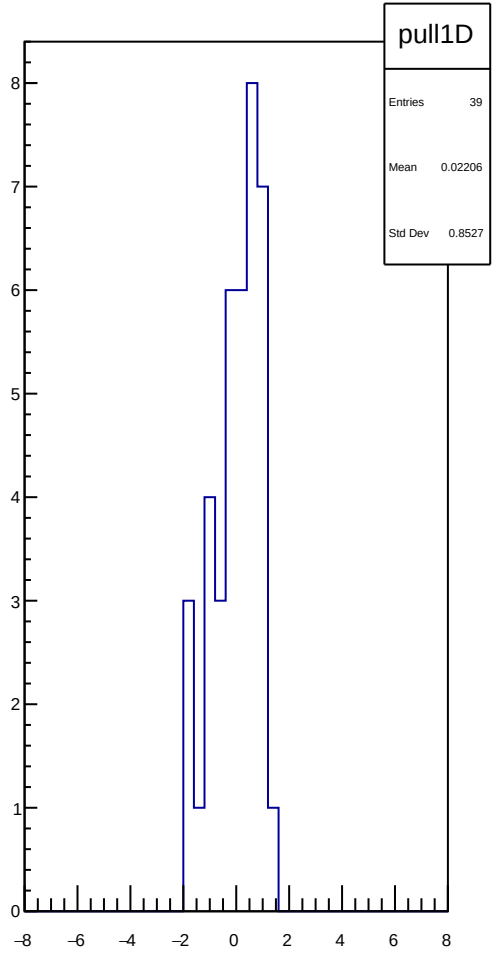

pull1D
Entries 39
Mean 0.04539
Std Dev 0.9932
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

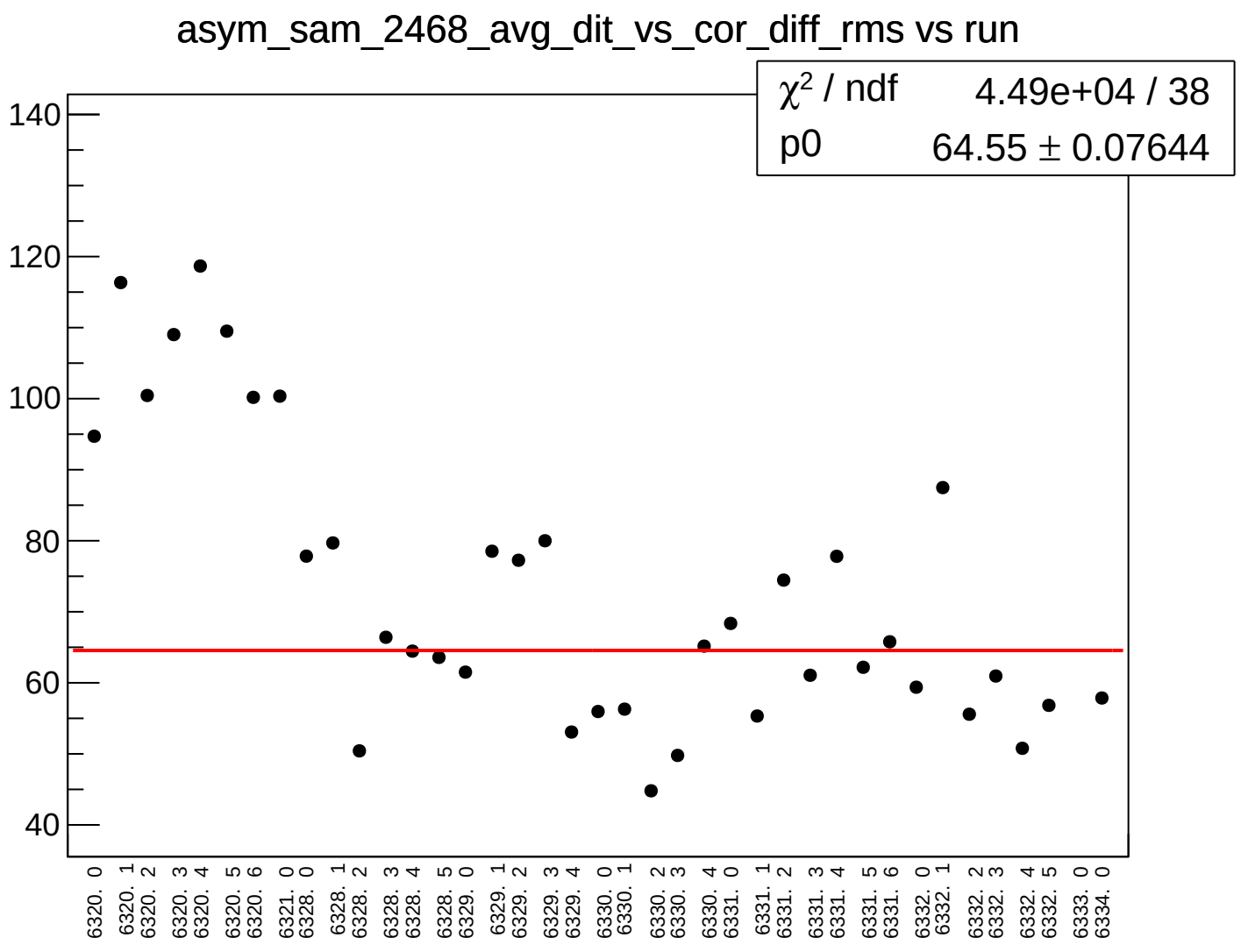

asym_sam_2468_avg_rms vs run
χ² / ndf 3.601e+04 / 38
p0 994.7 ± 1.171
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 38.78 / 38
p0 2.606e−14 ± 9.508e−14
0.0005
0
−0.0005
−0.001
−0.0015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −89.58
Std Dev 0
3
2
1
0
−1
pull1D
Entries 39
Mean 0.02716
Std Dev 0.9969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

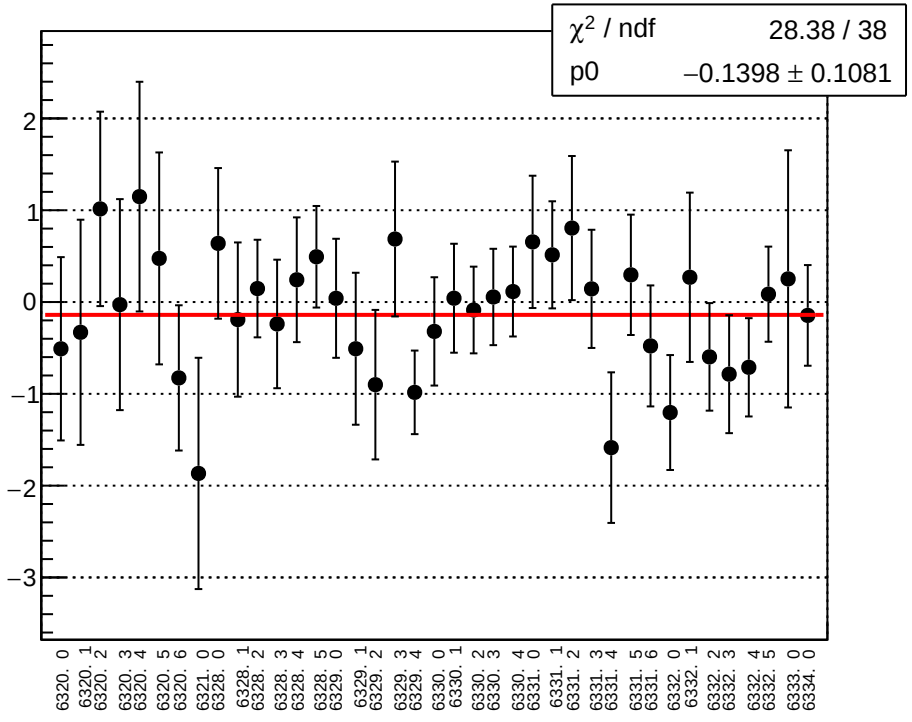

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.417e+05 / 38
p0 3.127e−11 ± 6.723e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

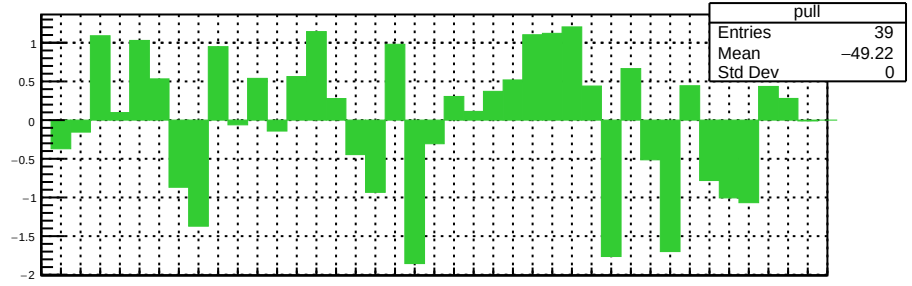

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 28.38 / 38
p0 −0.1398 ± 0.1081
pull
Entries 39
Mean −49.22
Std Dev 0

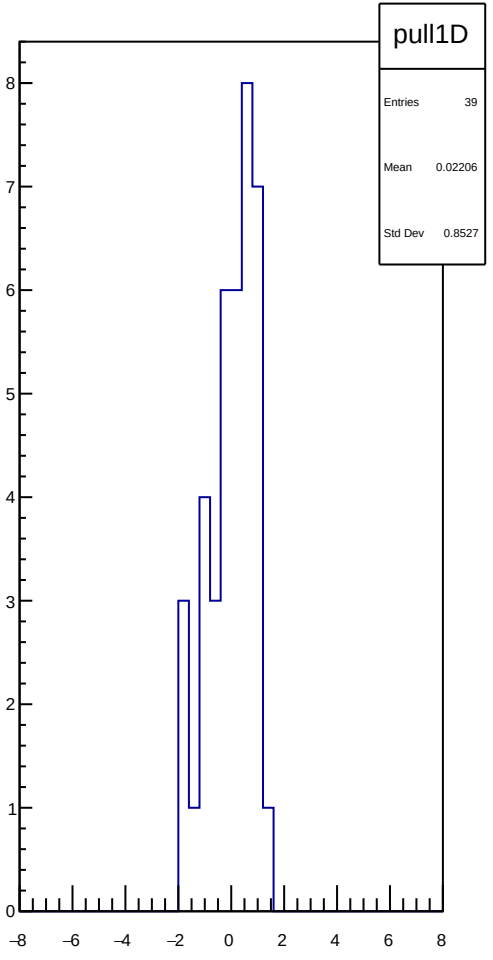

pull1D
Entries 39
Mean 0.02206
Std Dev 0.8527

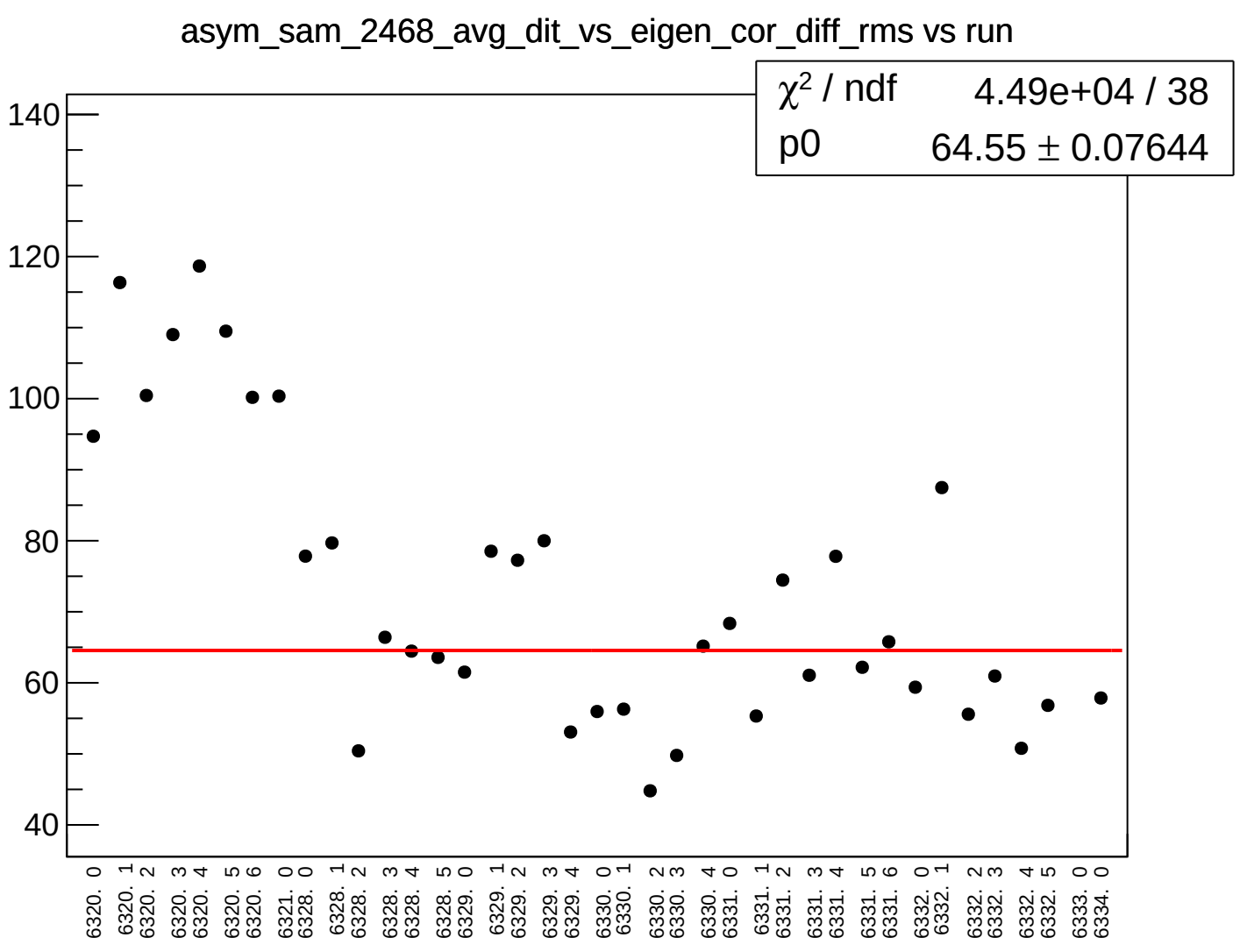

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 38
p0 64.55 ± 0.07644
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

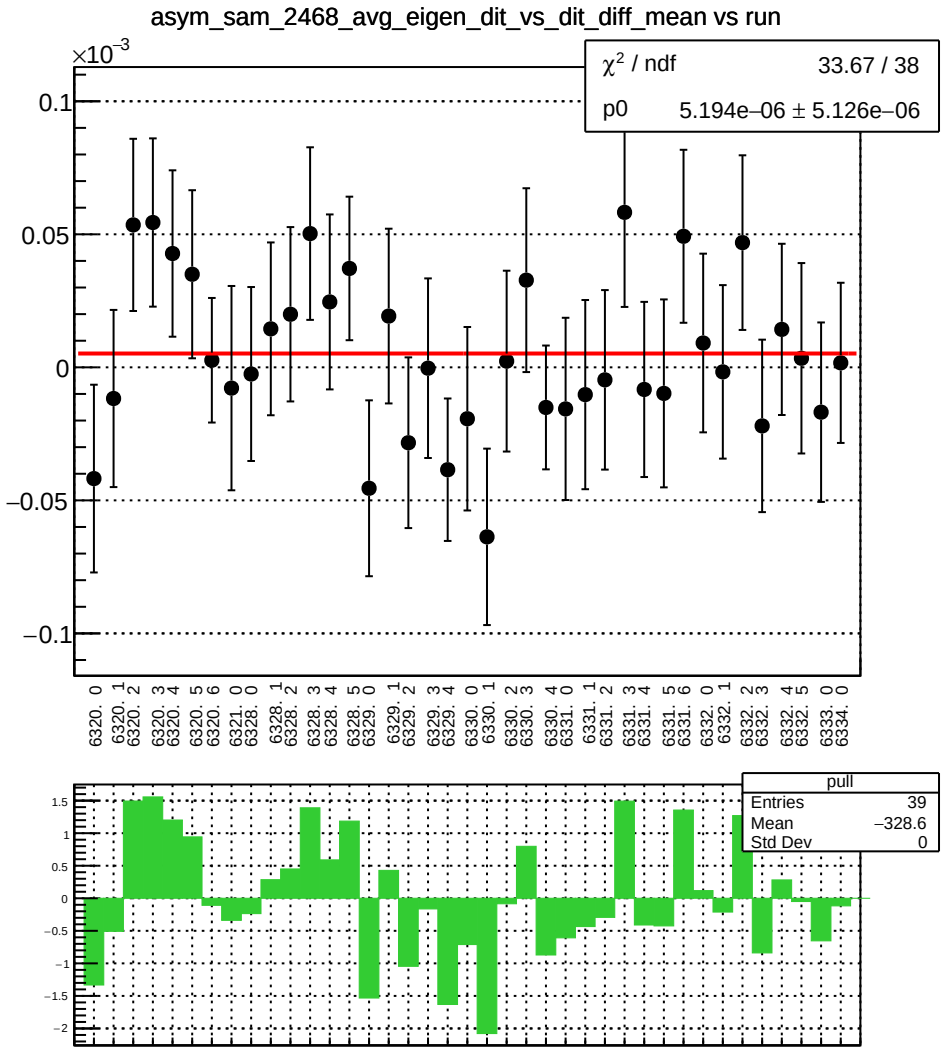
asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run

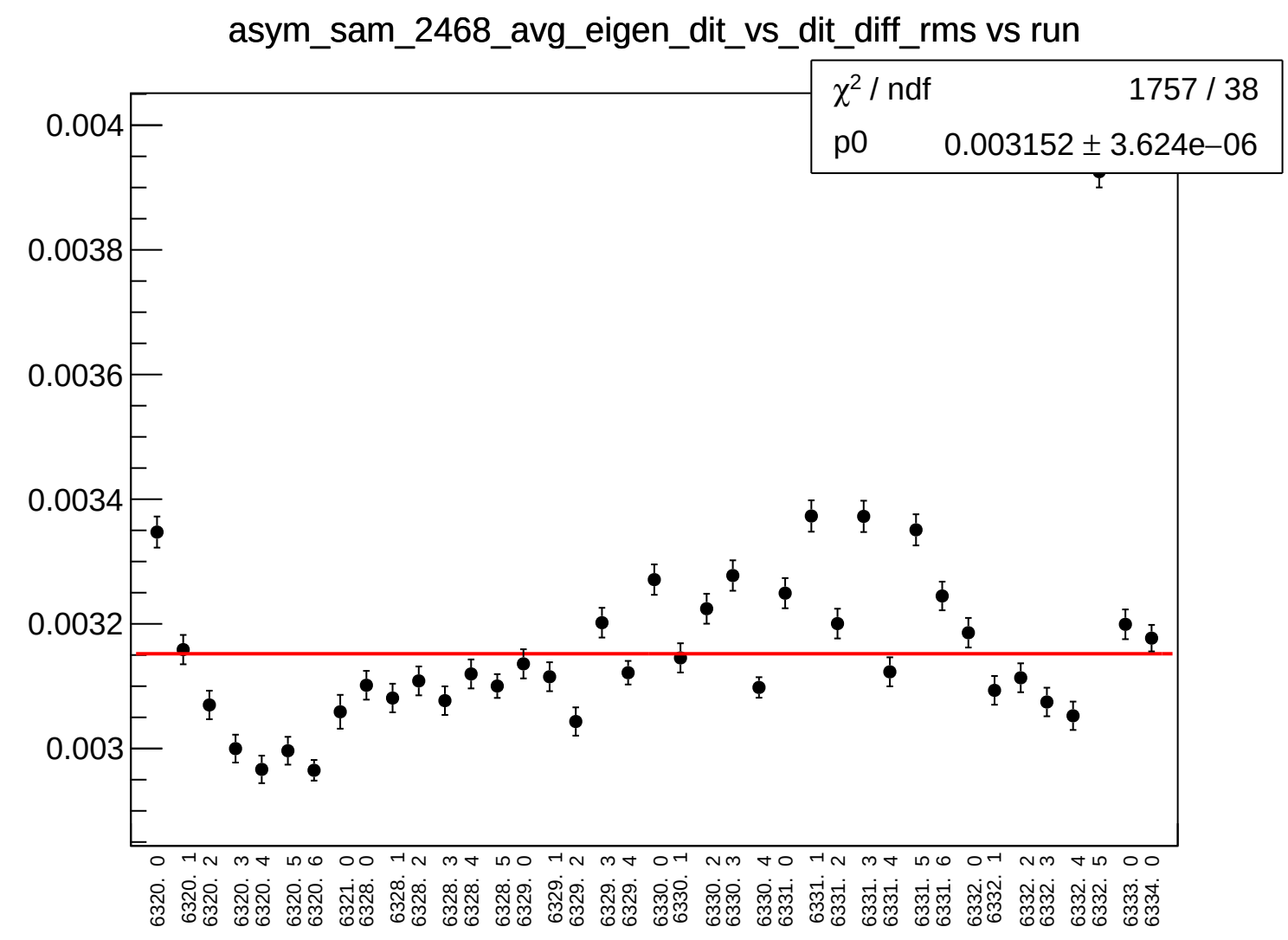




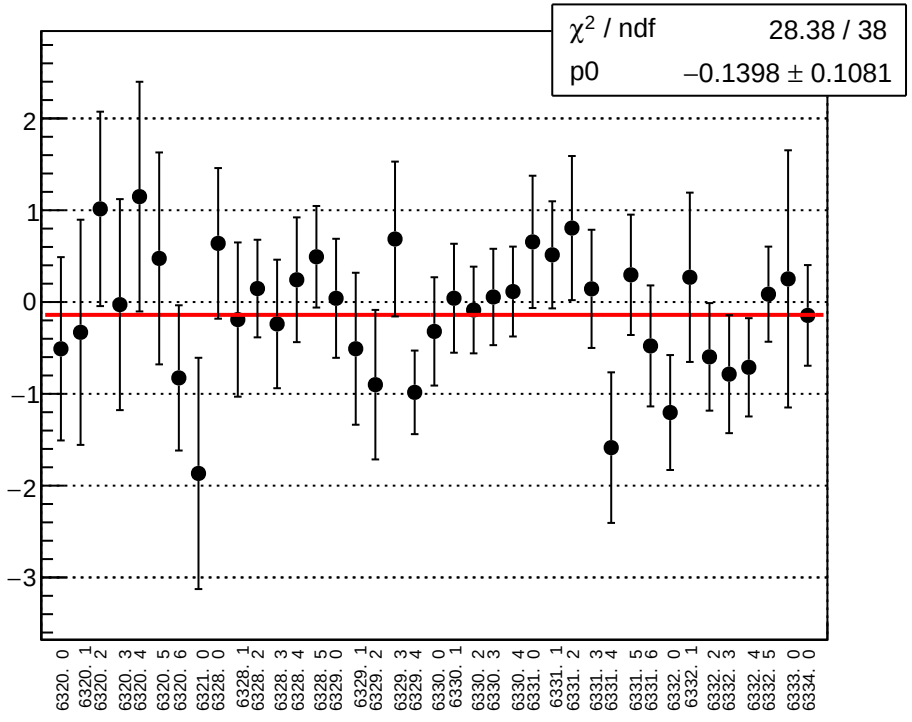


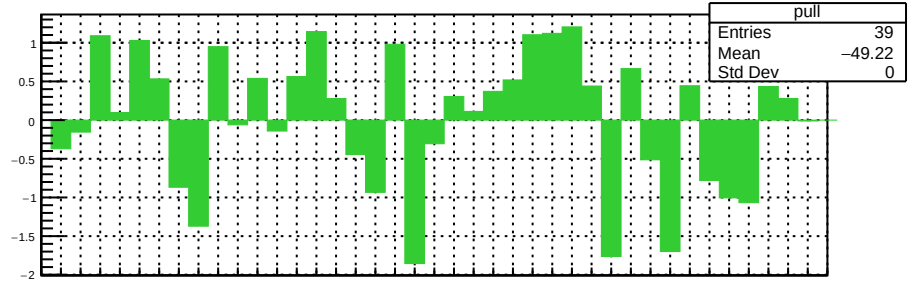

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 38
p0 64.55 ± 0.07644
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

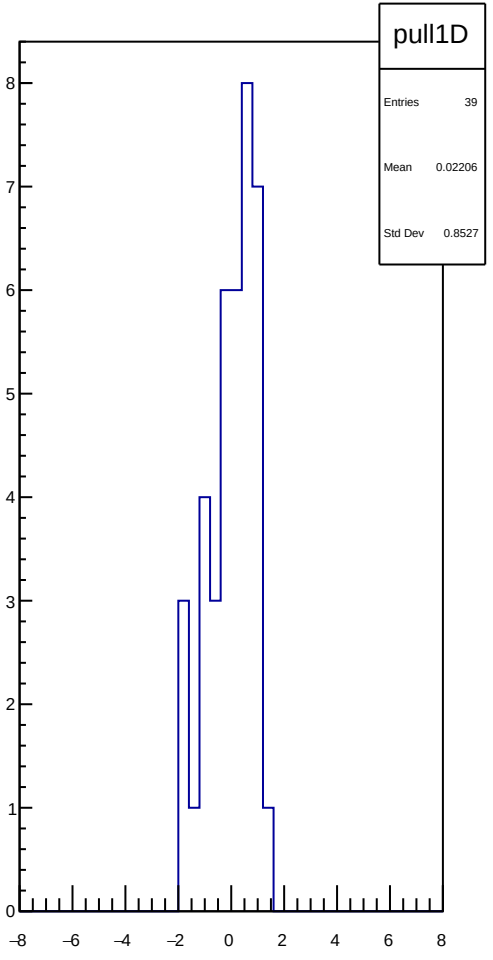

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.67 / 38
p0 5.194e−06 ± 5.126e−06
0.1
0.05
0
−0.05
−0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −328.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.004114
Std Dev 0.9292
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

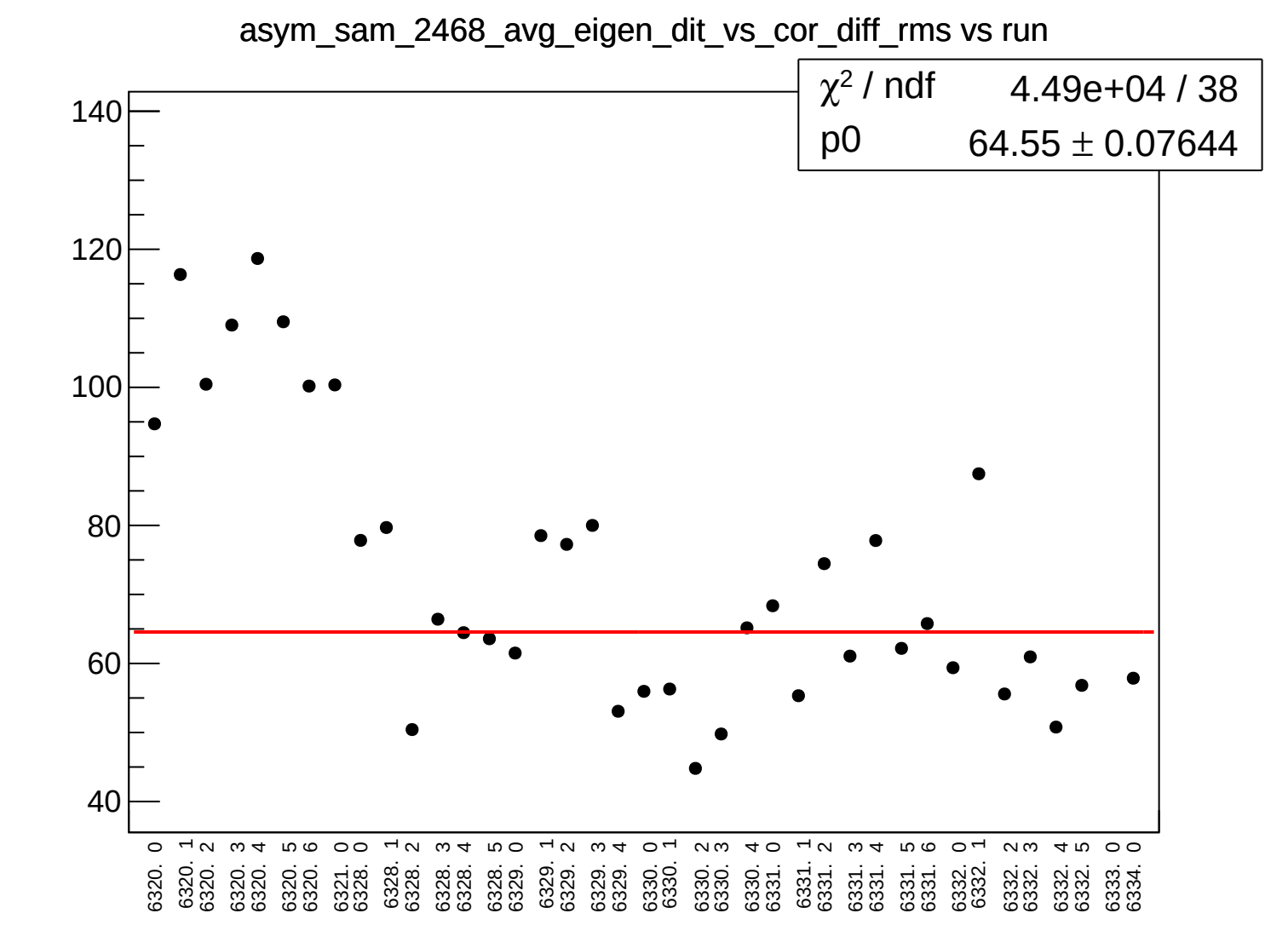

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1757 / 38
p0 0.003152 ± 3.624e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run

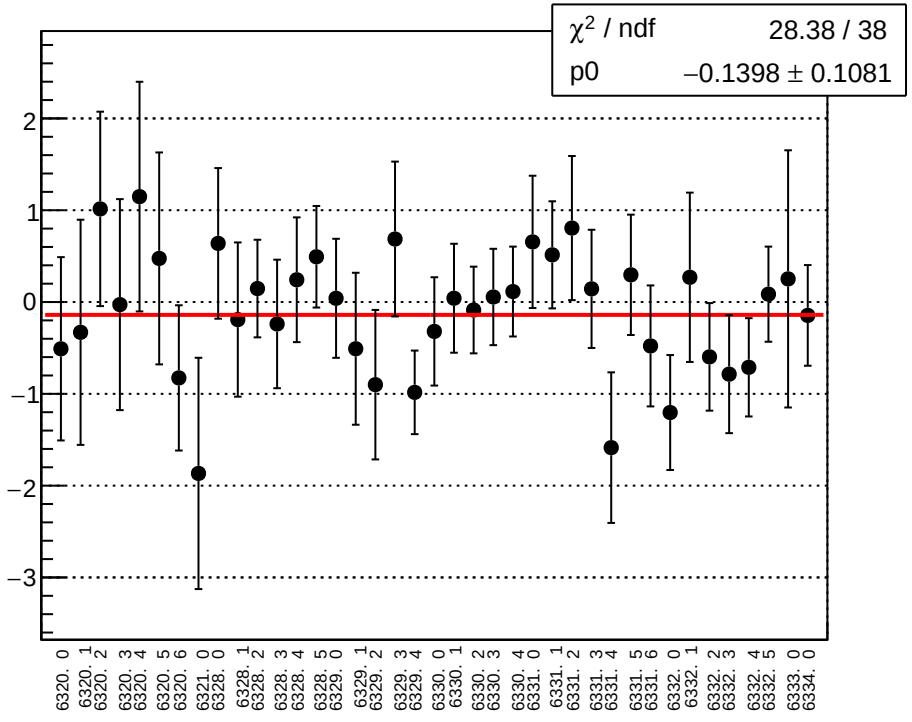


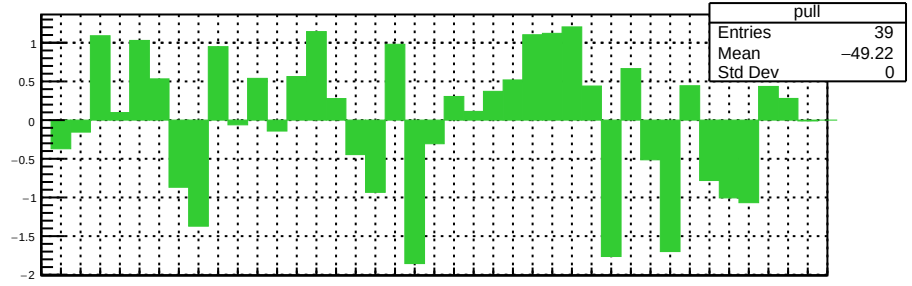


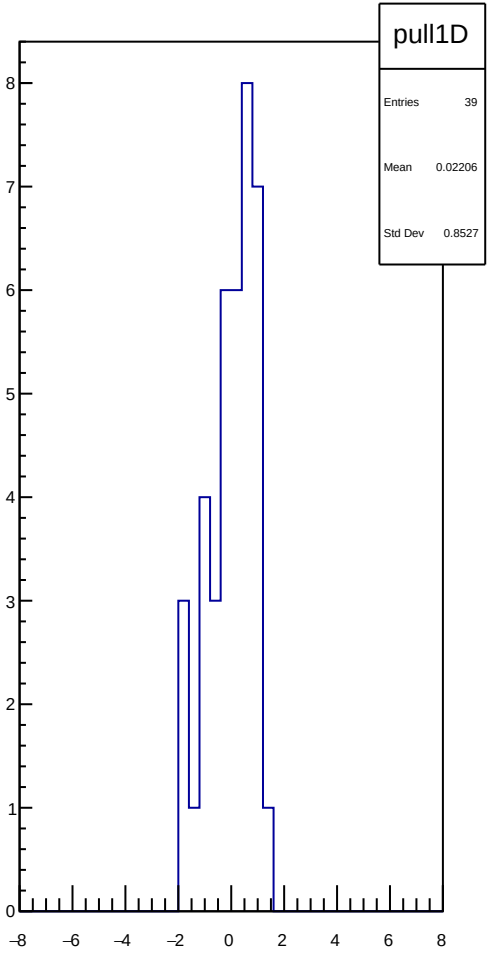


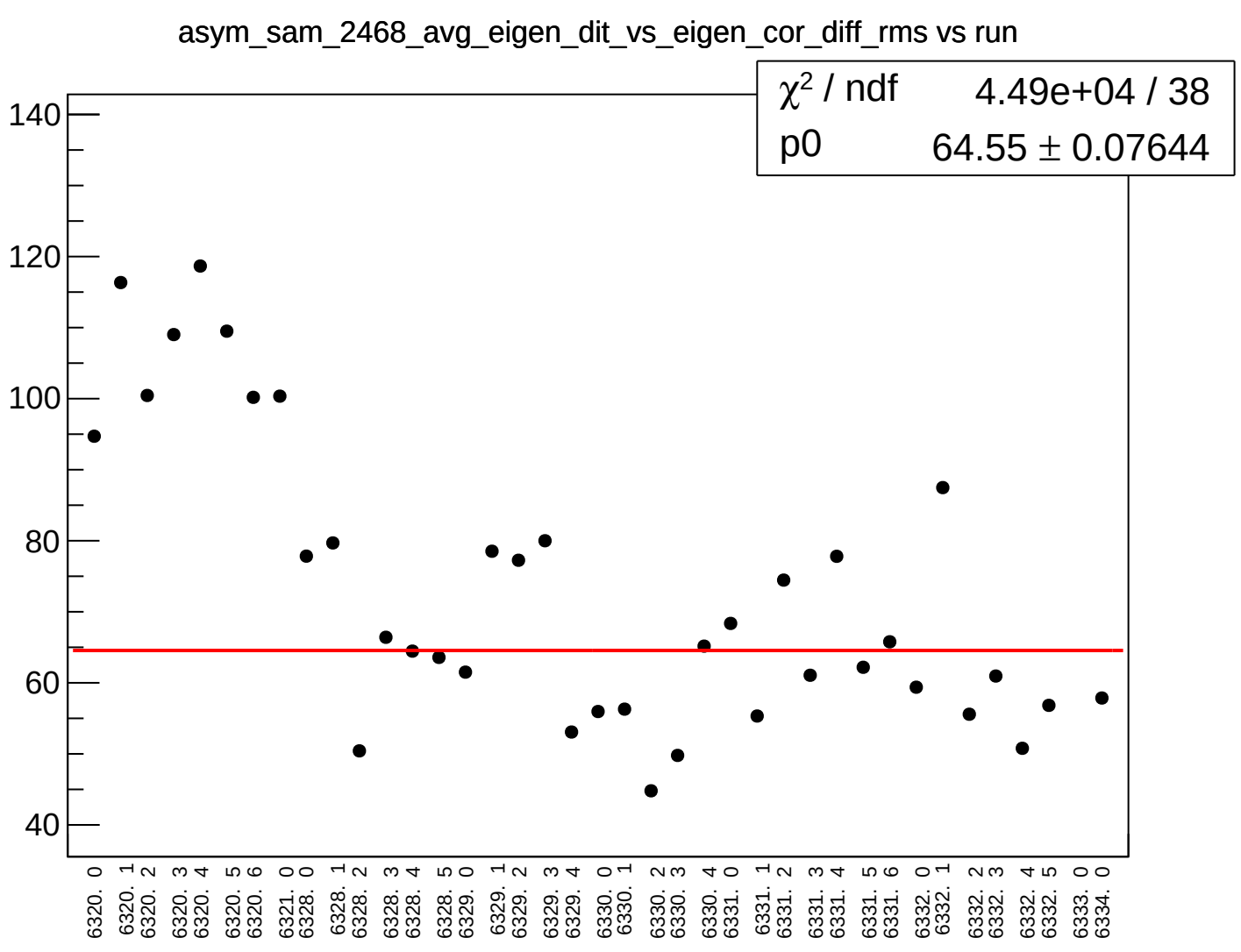

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 38
p0 64.55 ± 0.07644
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

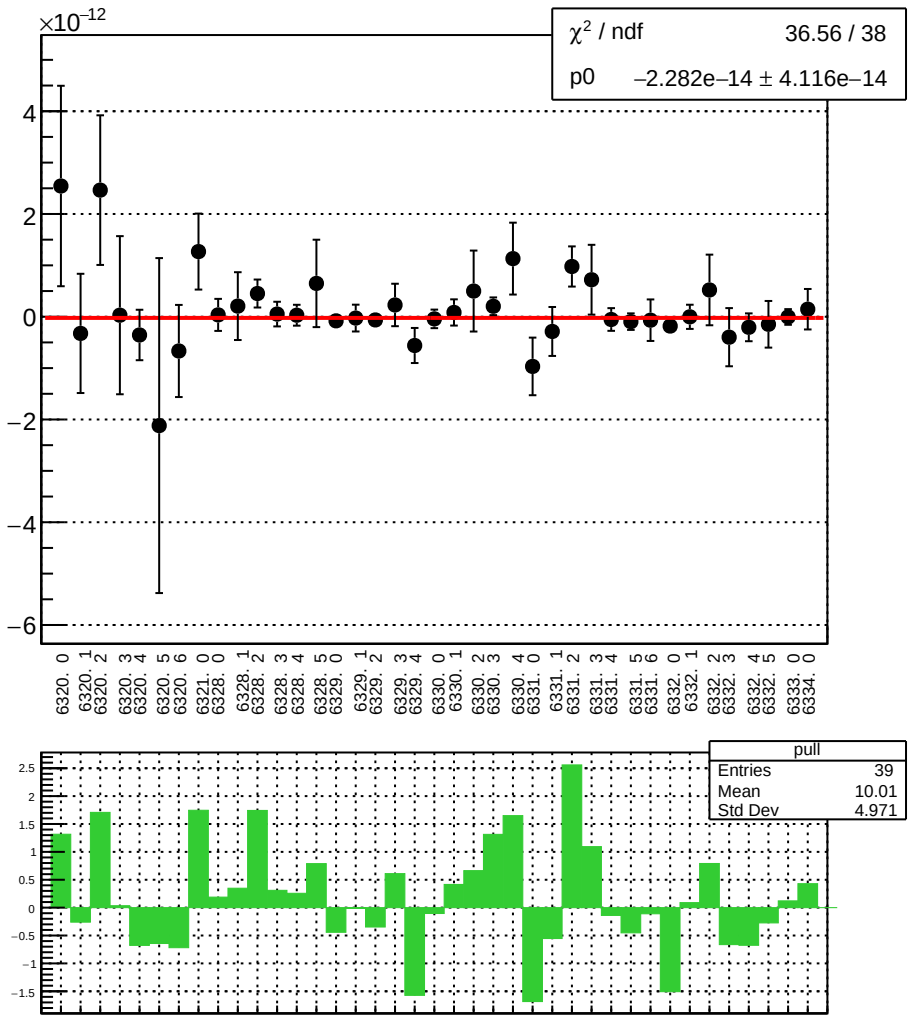
asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

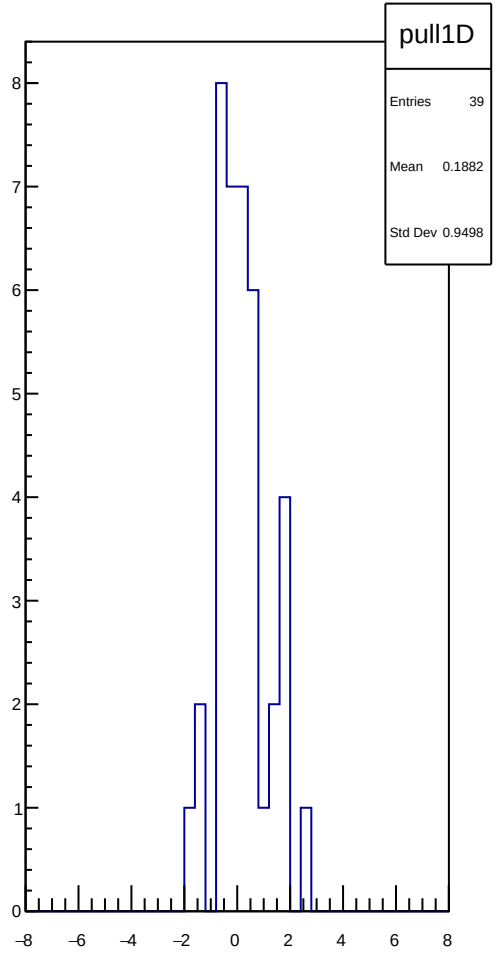


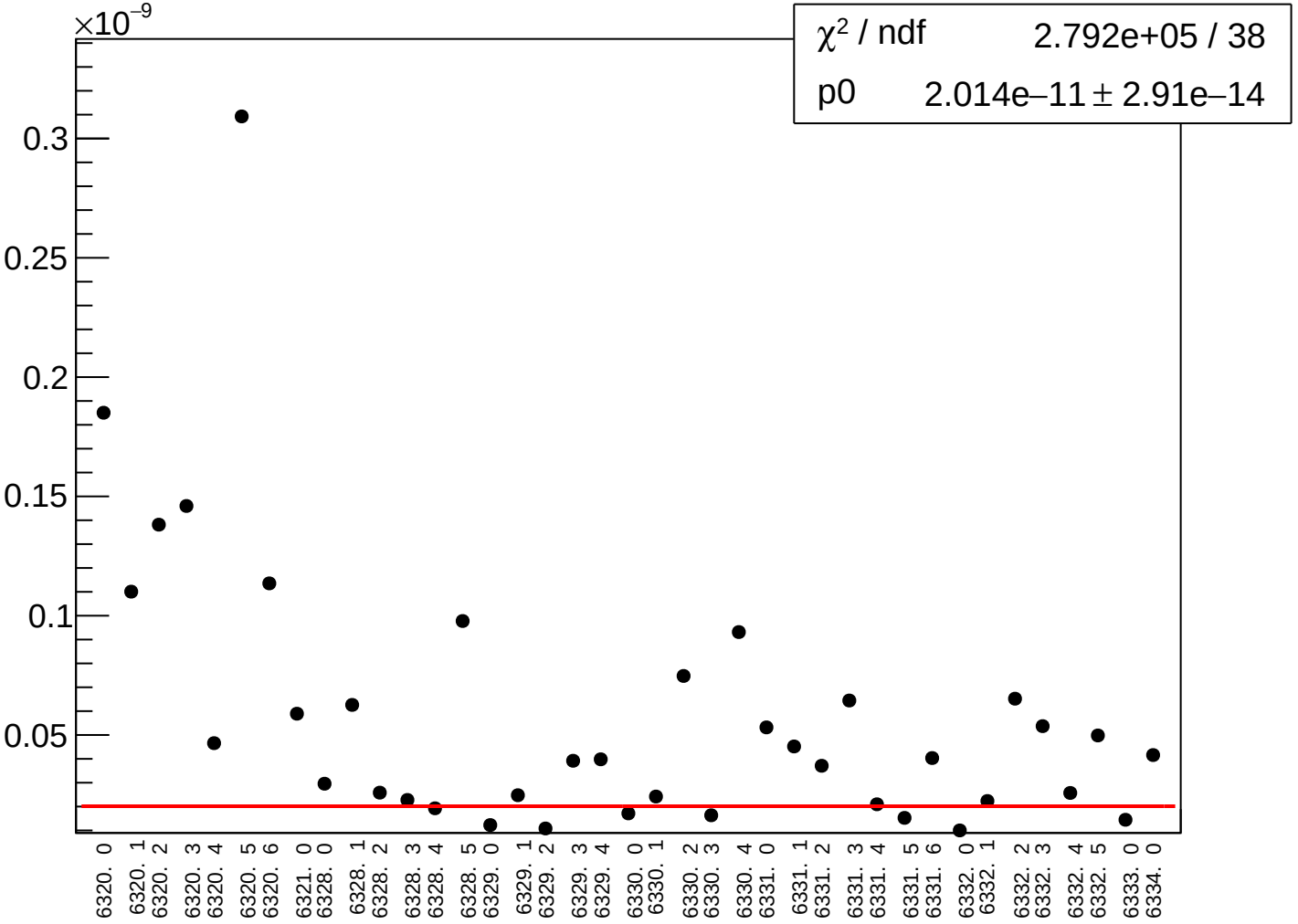


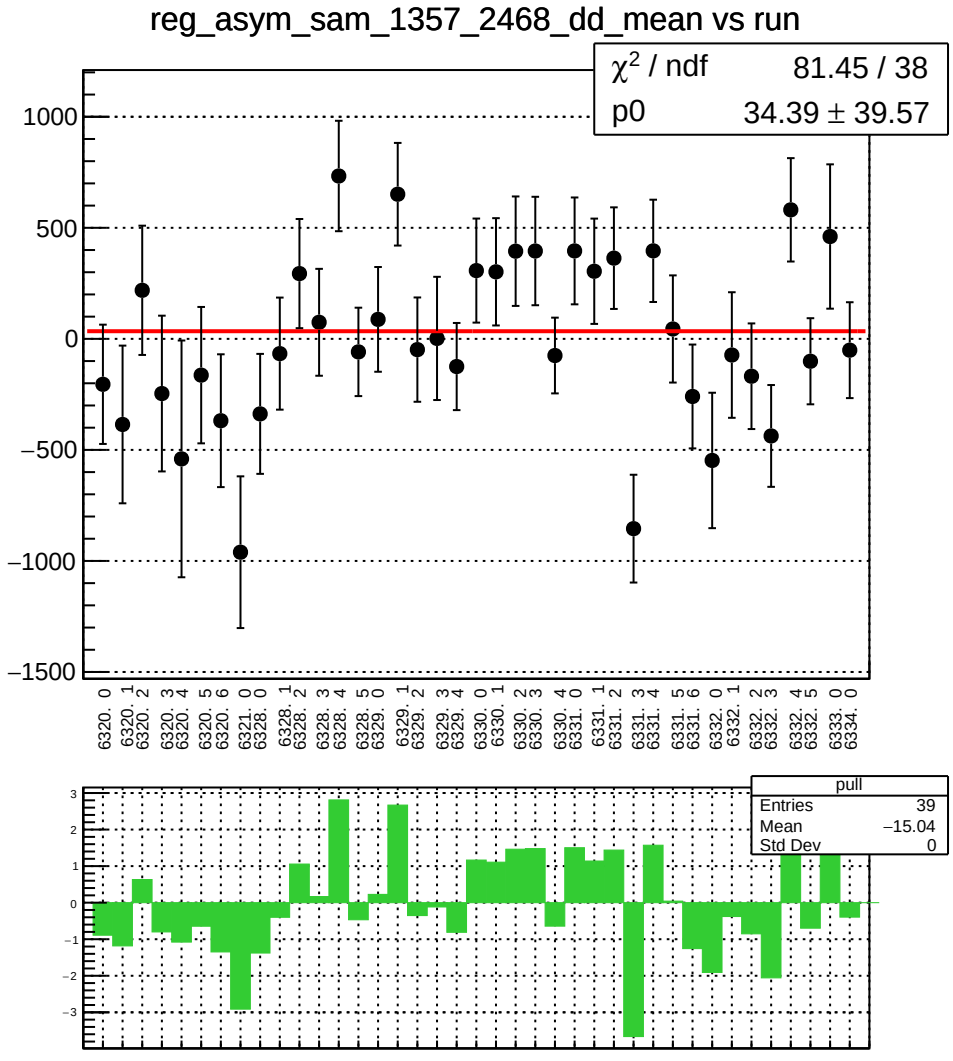


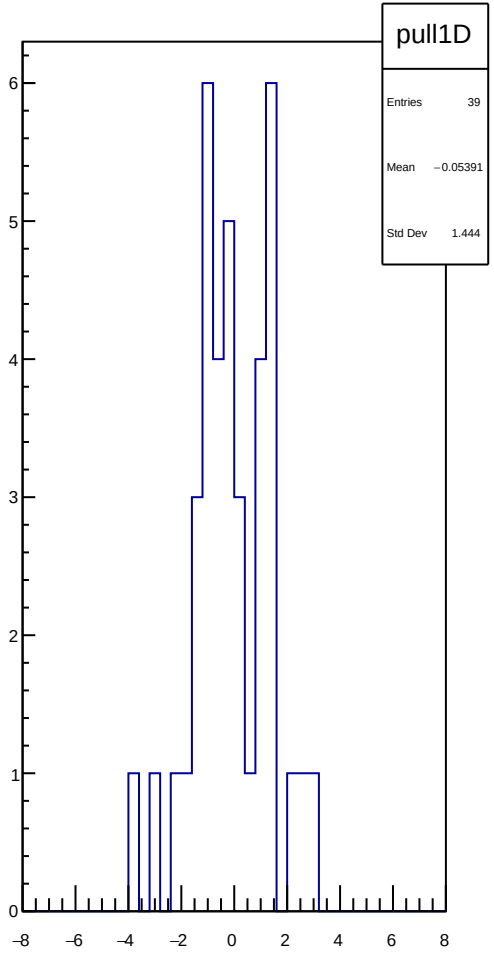

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 38
p0 64.55 ± 0.07644
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

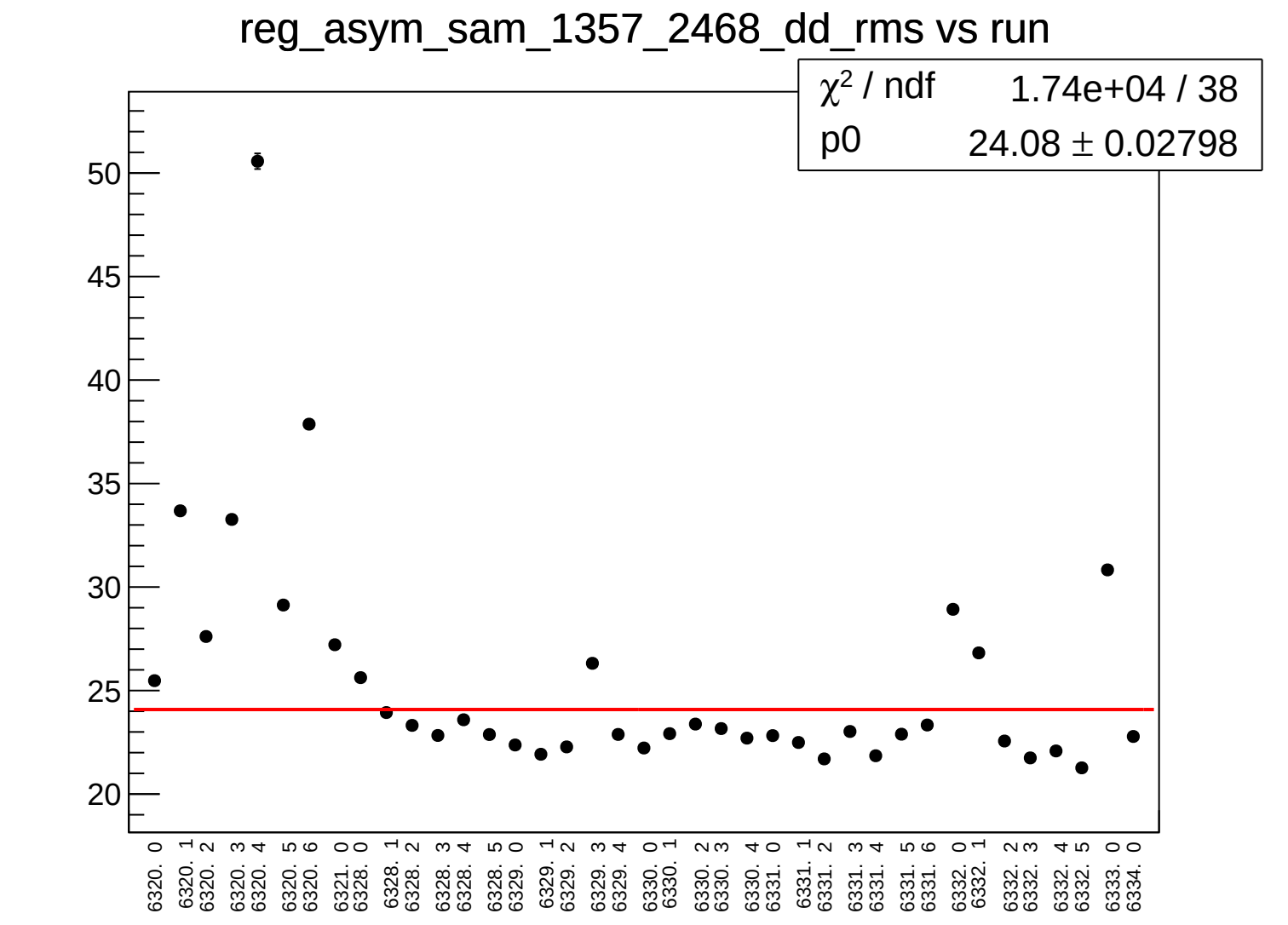

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.56 / 38
p0 −2.282e−14 ± 4.116e−14
pull
Entries 39
Mean 10.01
Std Dev 4.971

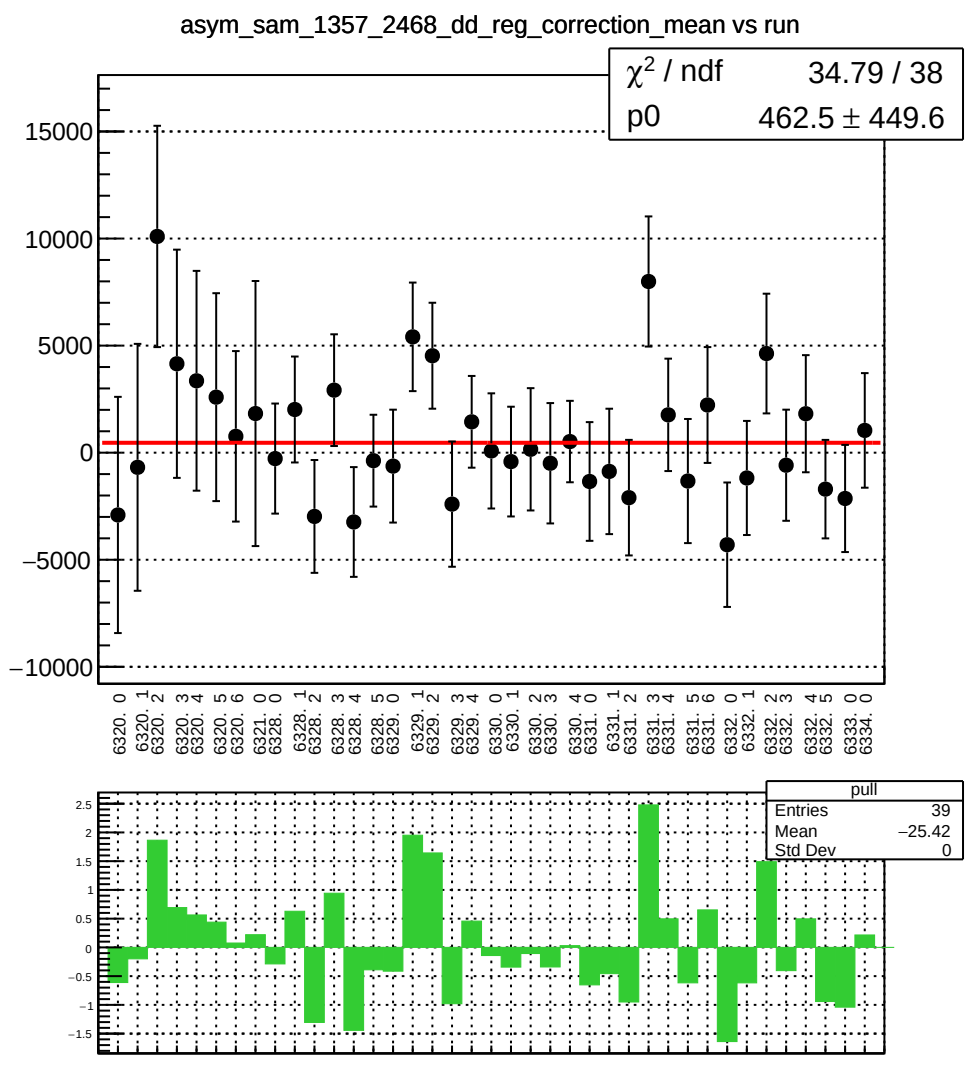

pull1D
Entries 39
Mean 0.1882
Std Dev 0.9498

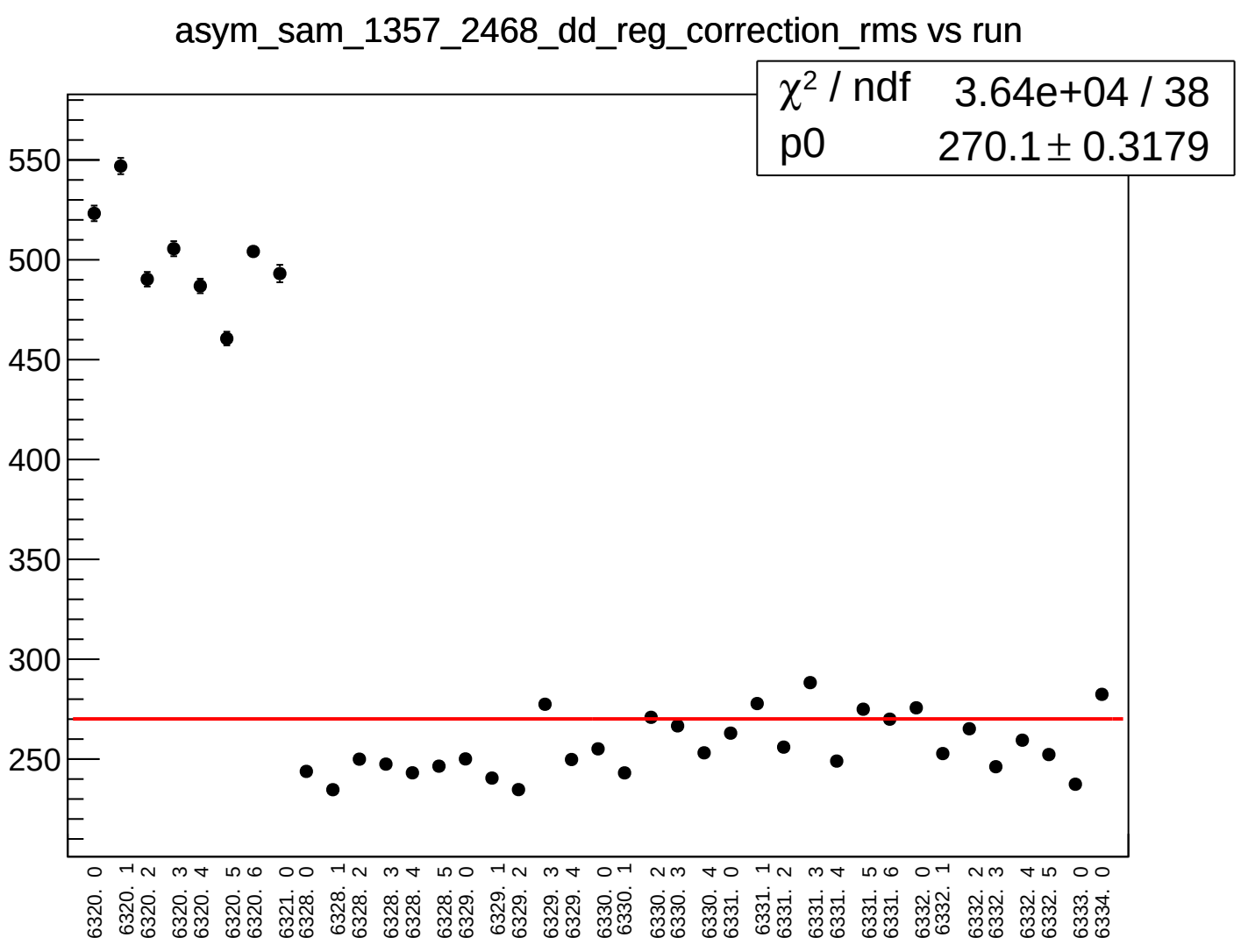

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.792e+05 / 38
p0 2.014e−11 ± 2.91e−14
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

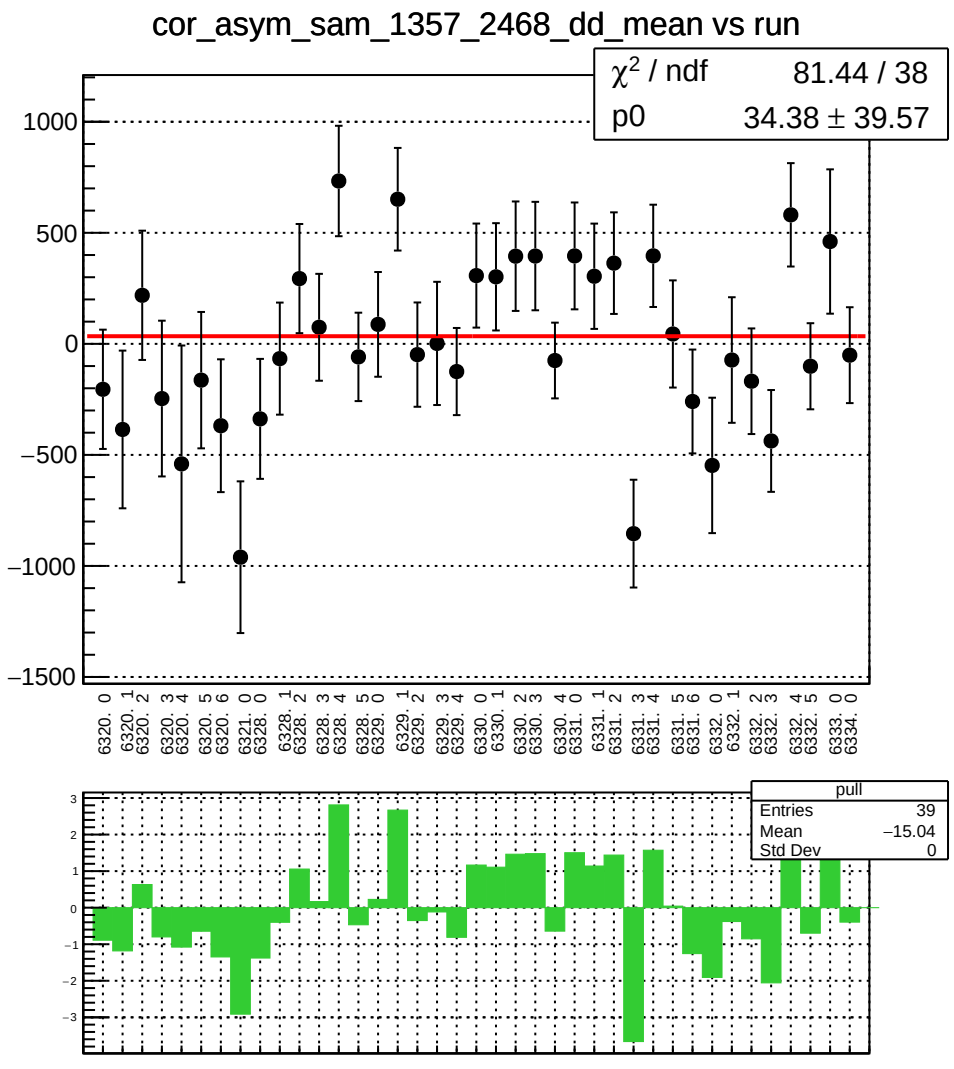

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 81.45 / 38
p0 34.39 ± 39.57
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.04
Std Dev 0
3
2
1
0
−1
−2
−3

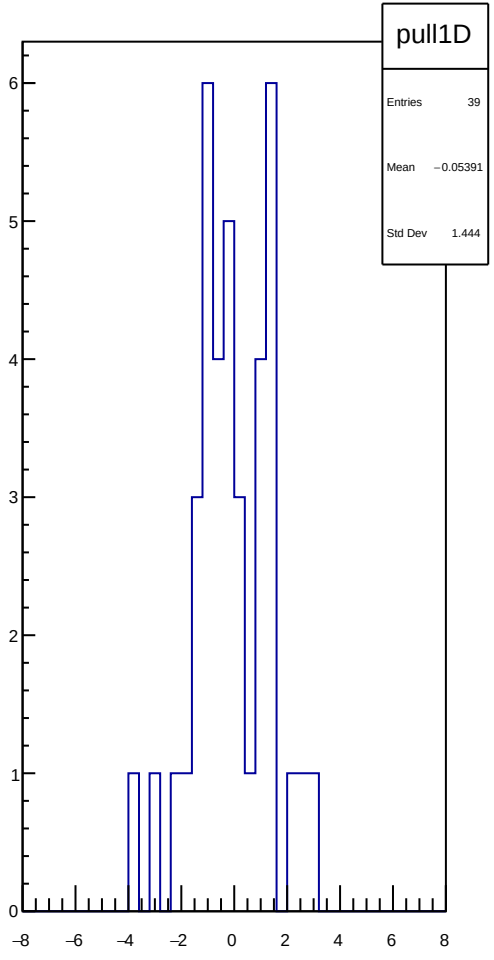

pull1D
Entries 39
Mean −0.05391
Std Dev 1.444
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

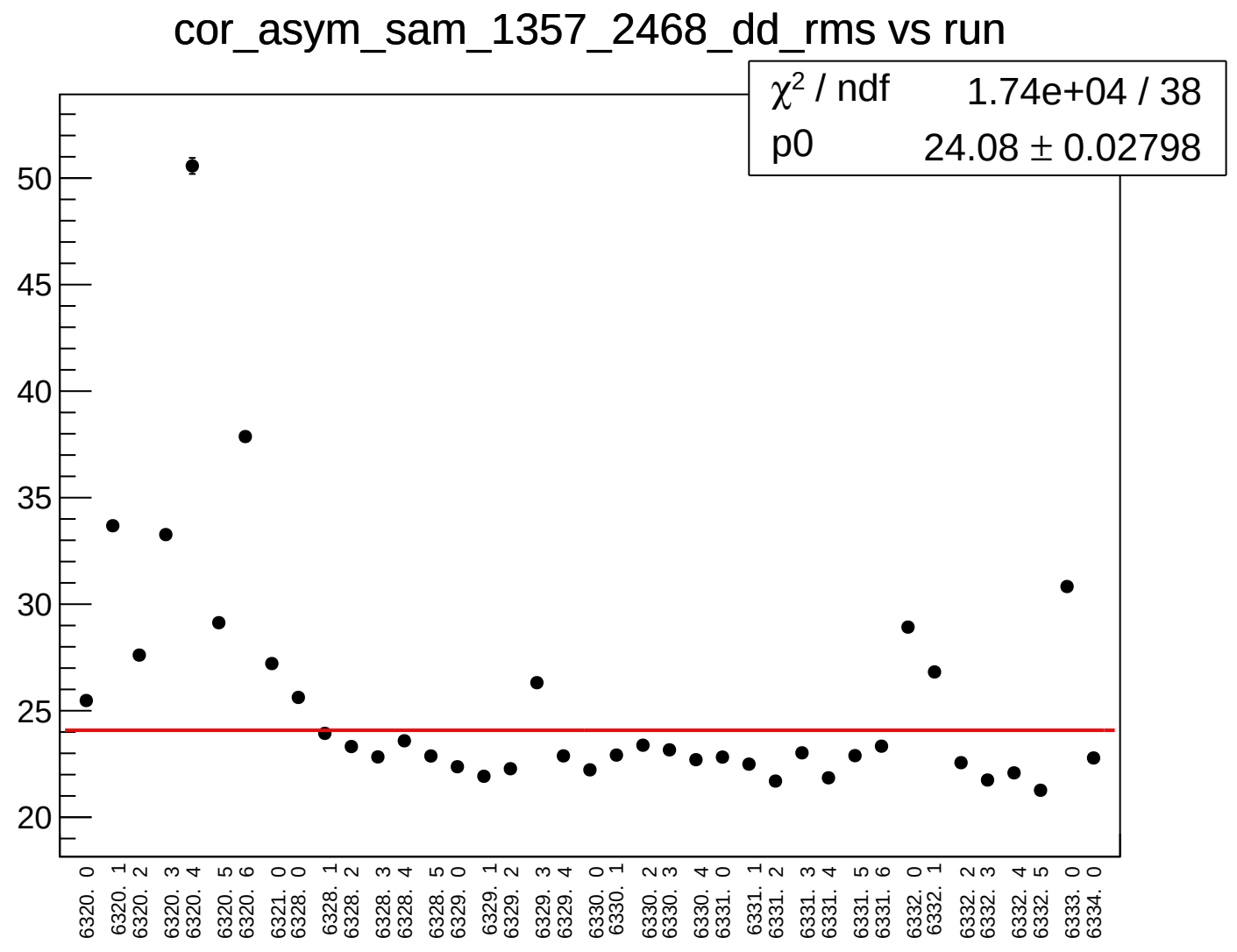

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.74e+04 / 38
p0 24.08 ± 0.02798
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

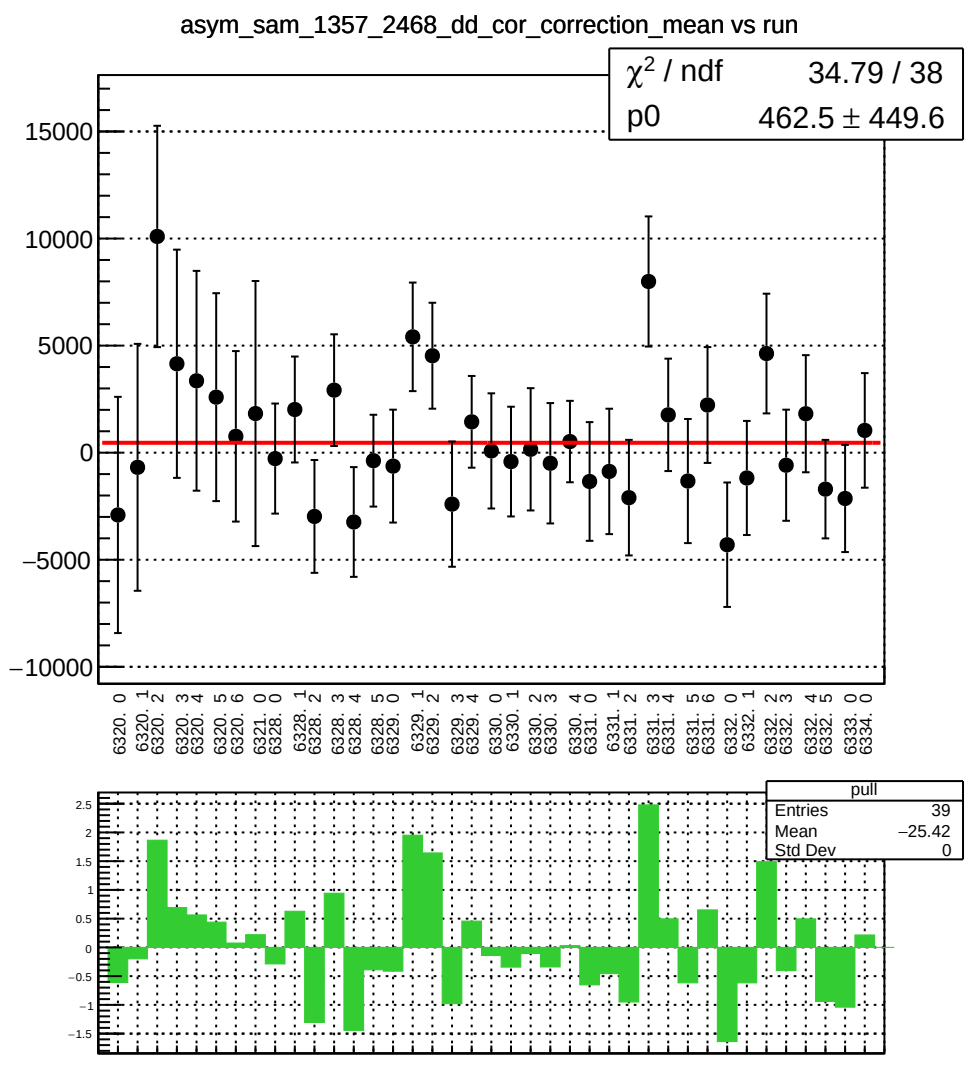

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 34.79 / 38
p0 462.5 ± 449.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03756
Std Dev 0.9438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

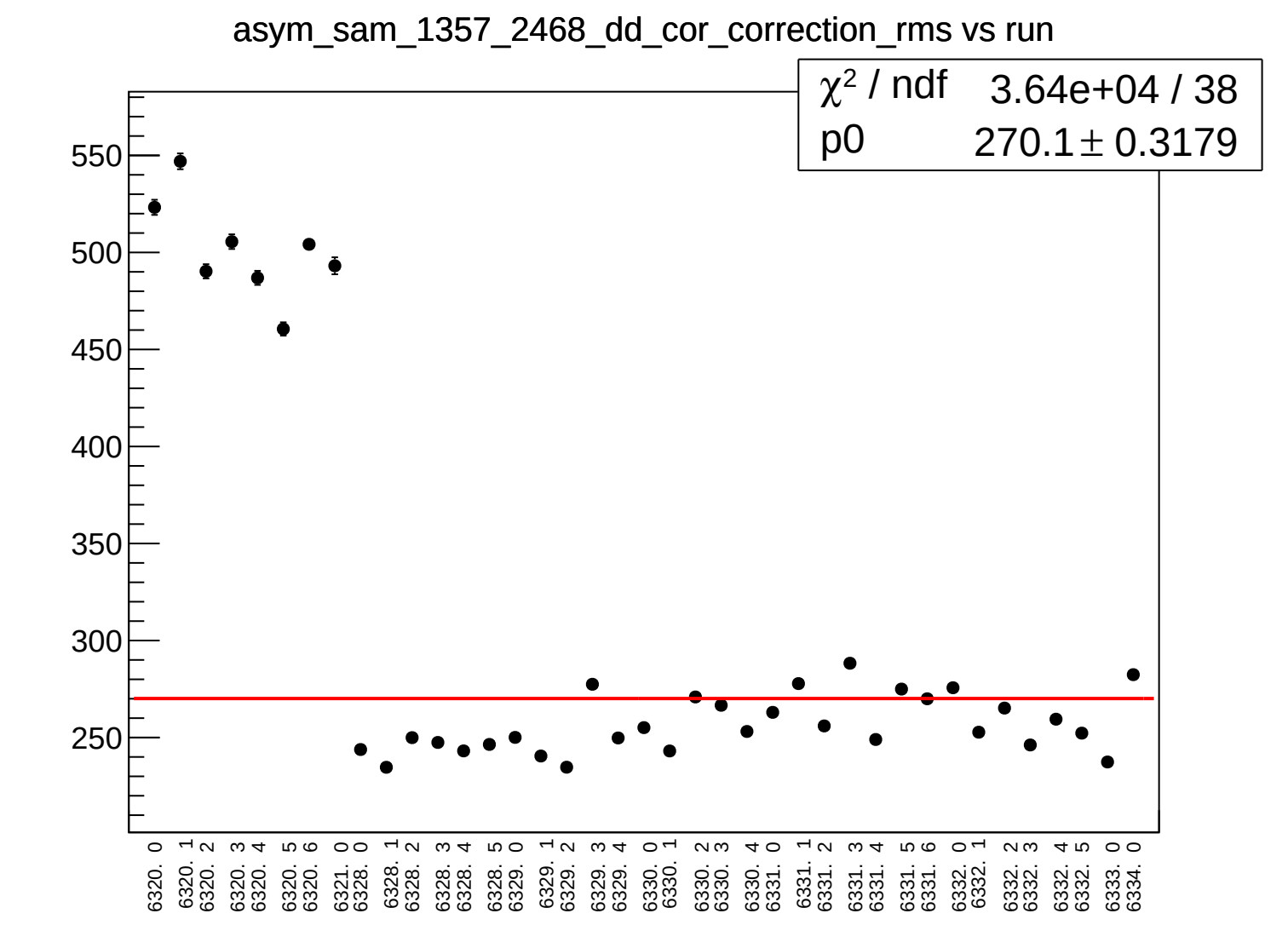

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3.64e+04 / 38
p0 270.1 ± 0.3179
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

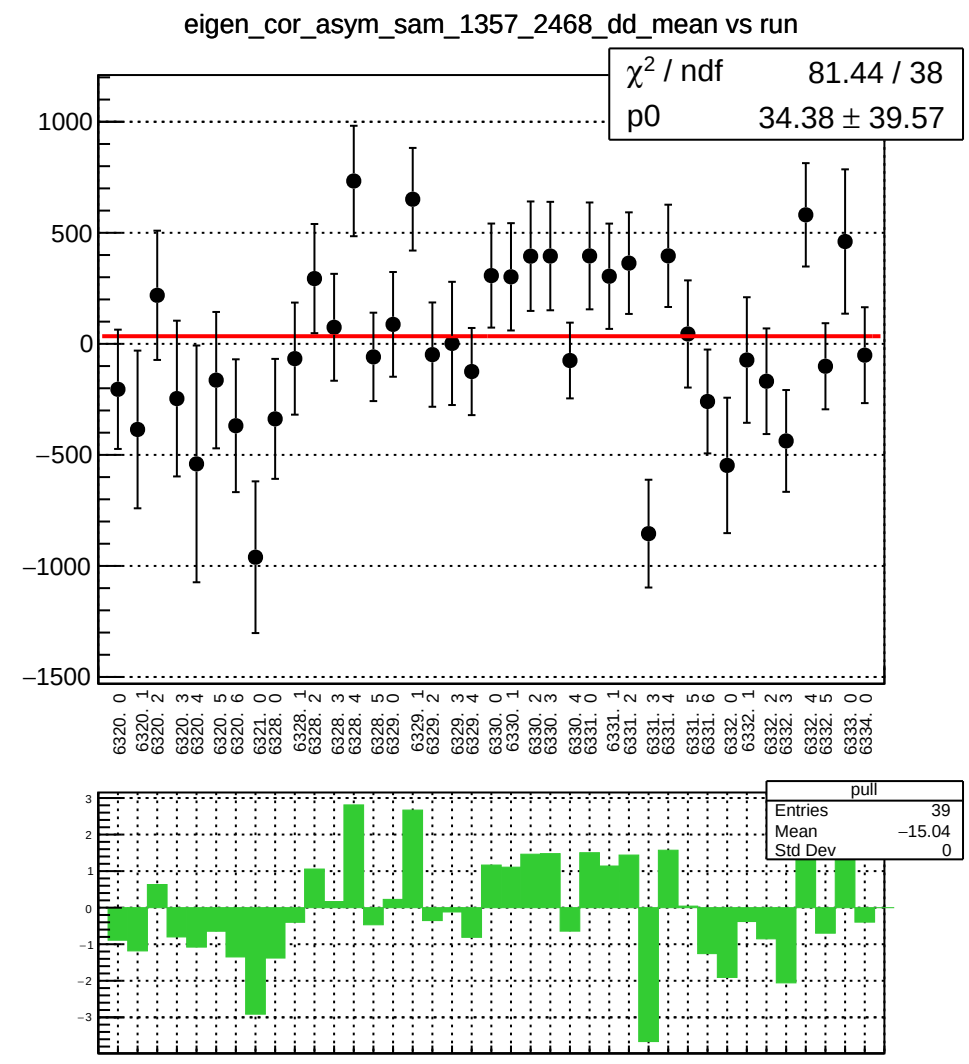

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.44 / 38
p0 34.38 ± 39.57
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.04
Std Dev 0
3
2
1
0
−1
−2
−3

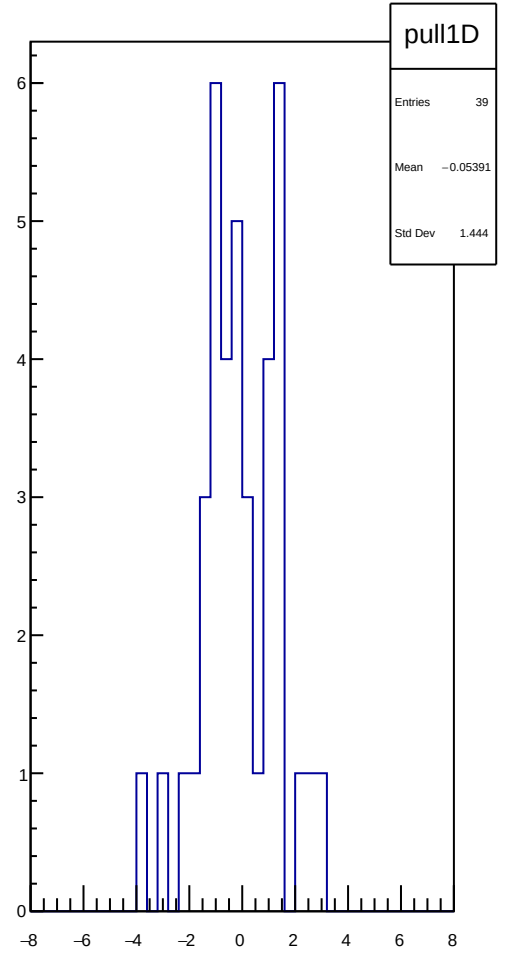

pull1D
Entries 39
Mean −0.05391
Std Dev 1.444
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

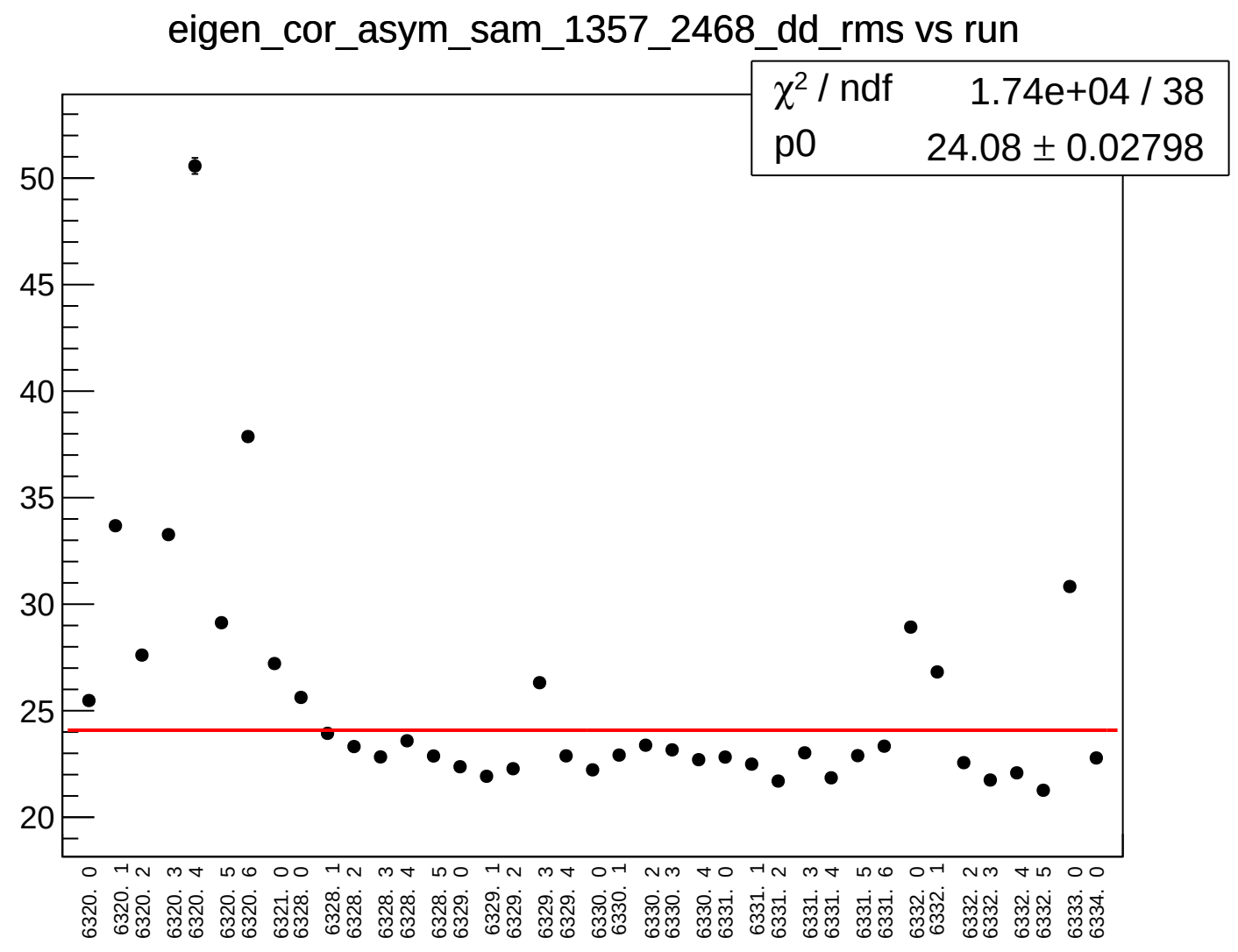

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.74e+04 / 38
p0 24.08 ± 0.02798
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

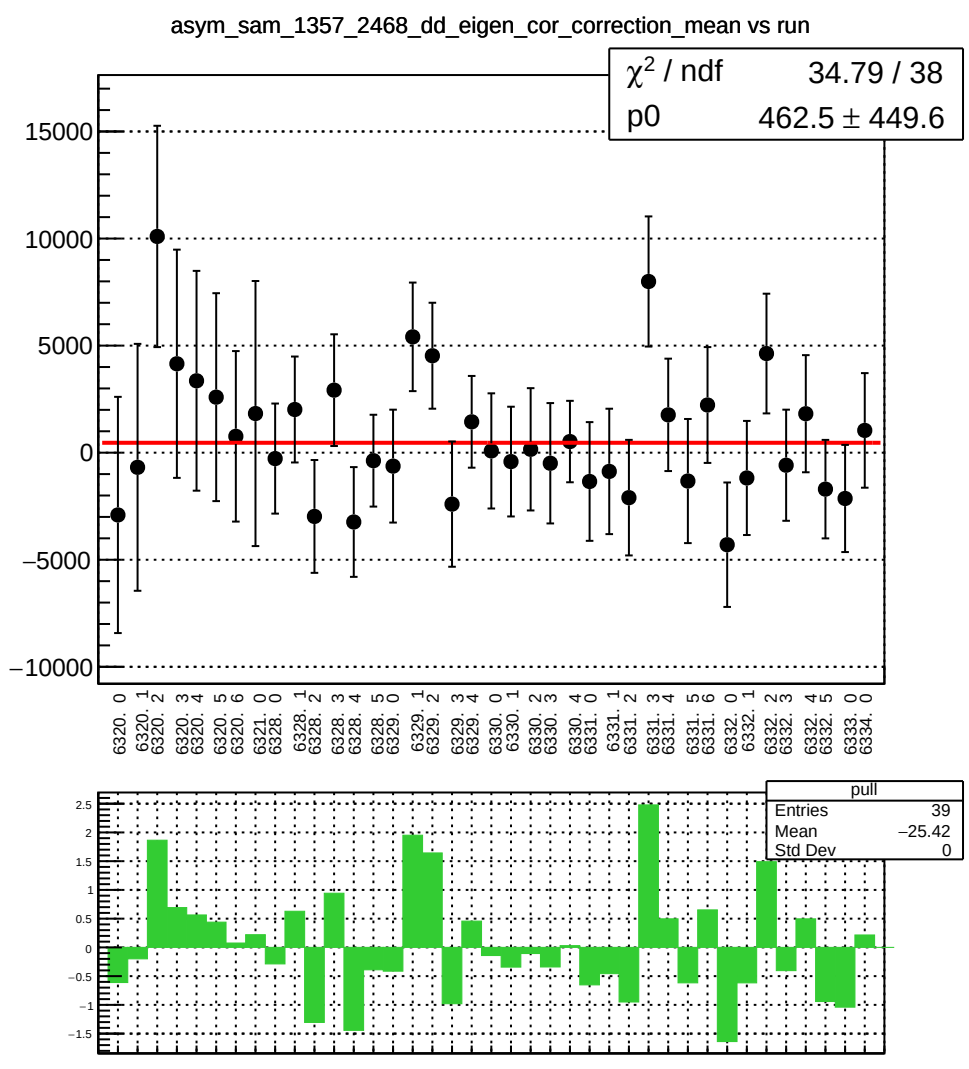

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 34.79 / 38
p0 462.5 ± 449.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03755
Std Dev 0.9438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

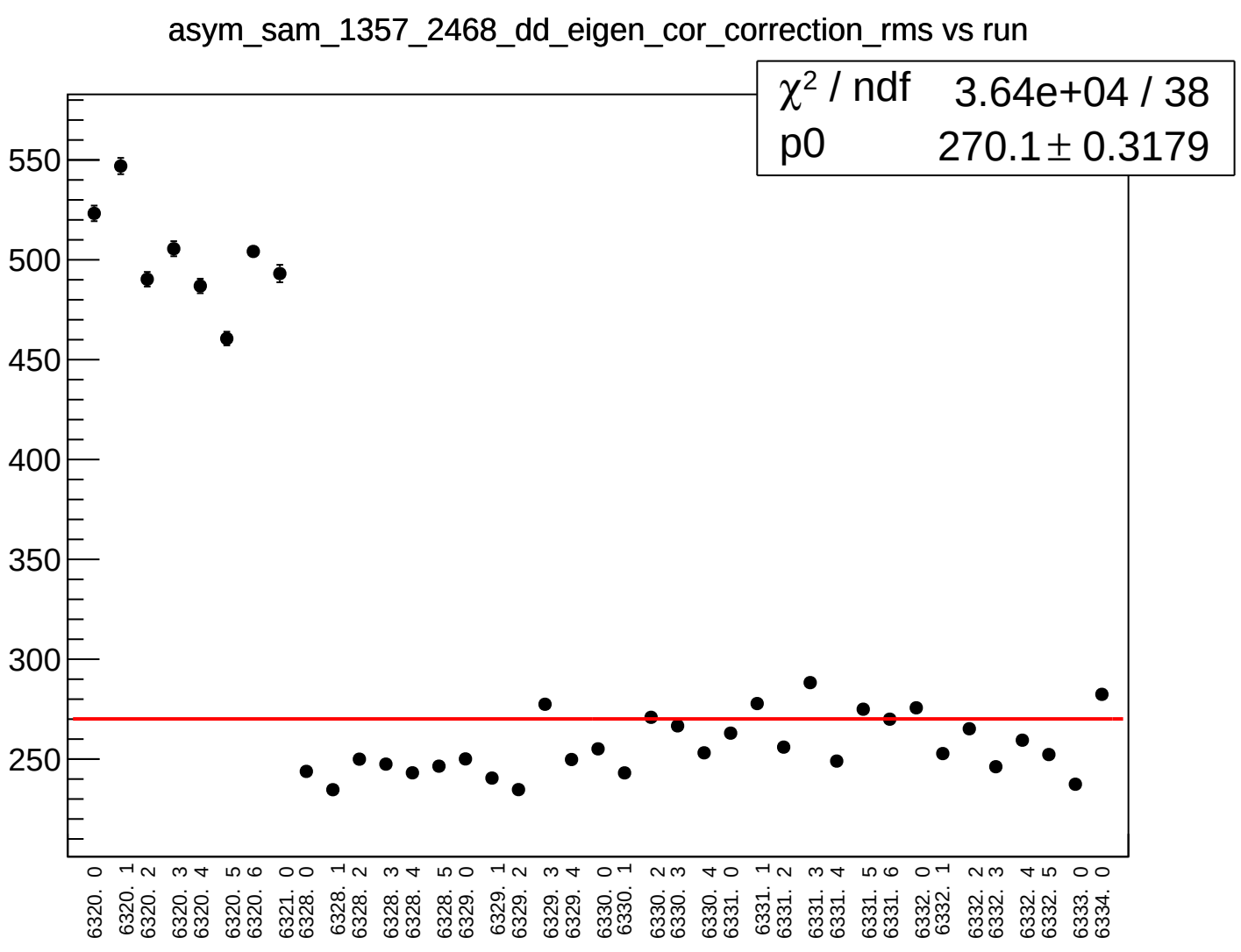

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3.64e+04 / 38
p0 270.1 ± 0.3179
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

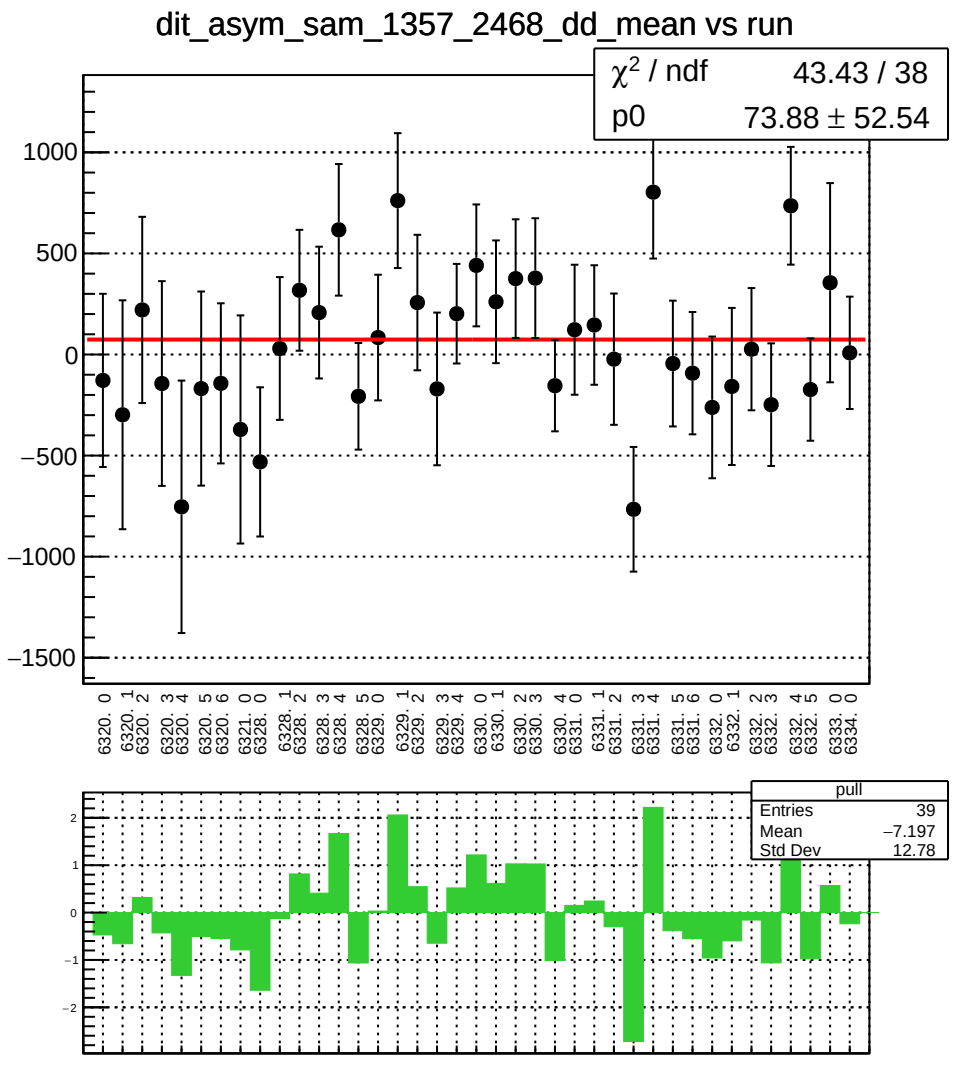

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.44 / 38
p0 34.38 ± 39.57
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −15.04
Std Dev 0
3
2
1
0
−1
−2
−3

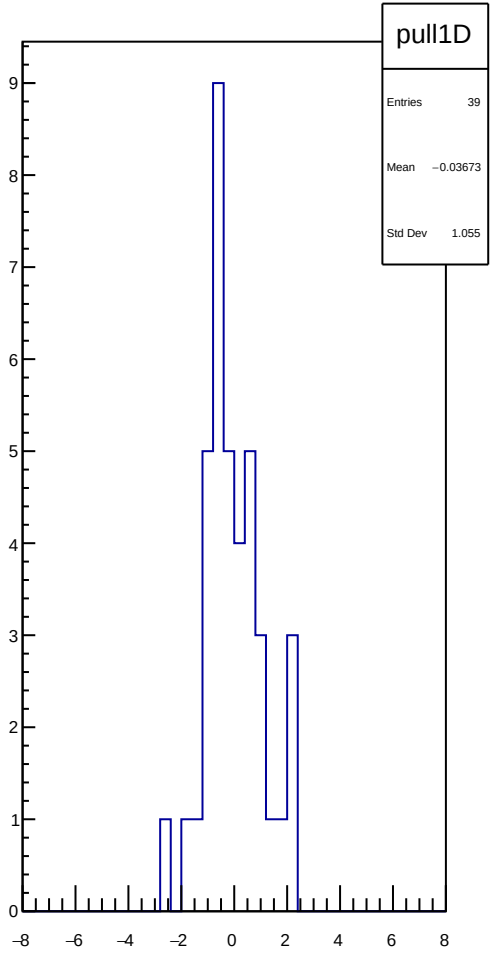

pull1D
Entries 39
Mean −0.05391
Std Dev 1.444
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

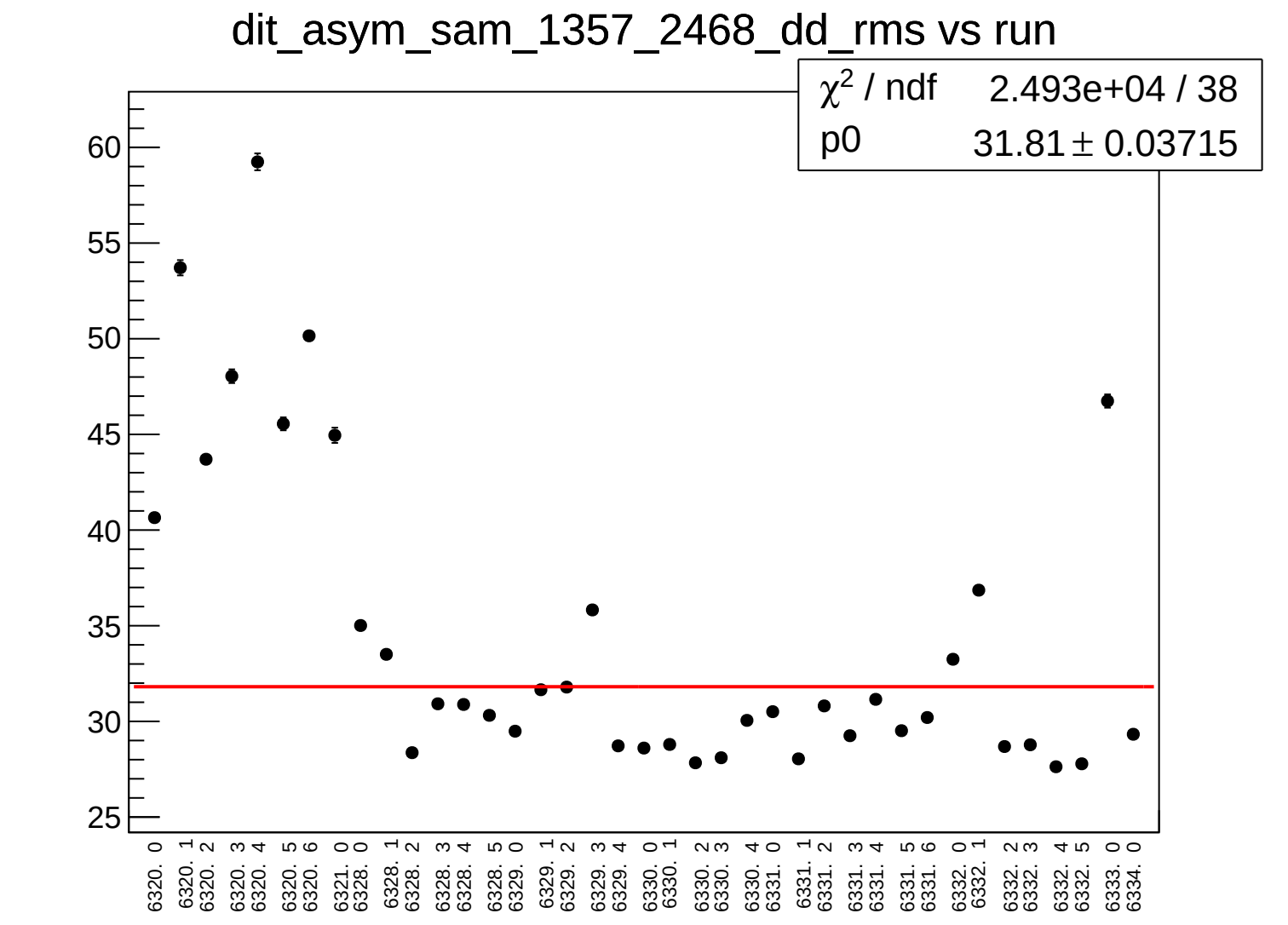

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.74e+04 / 38
p0 24.08 ± 0.02798
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

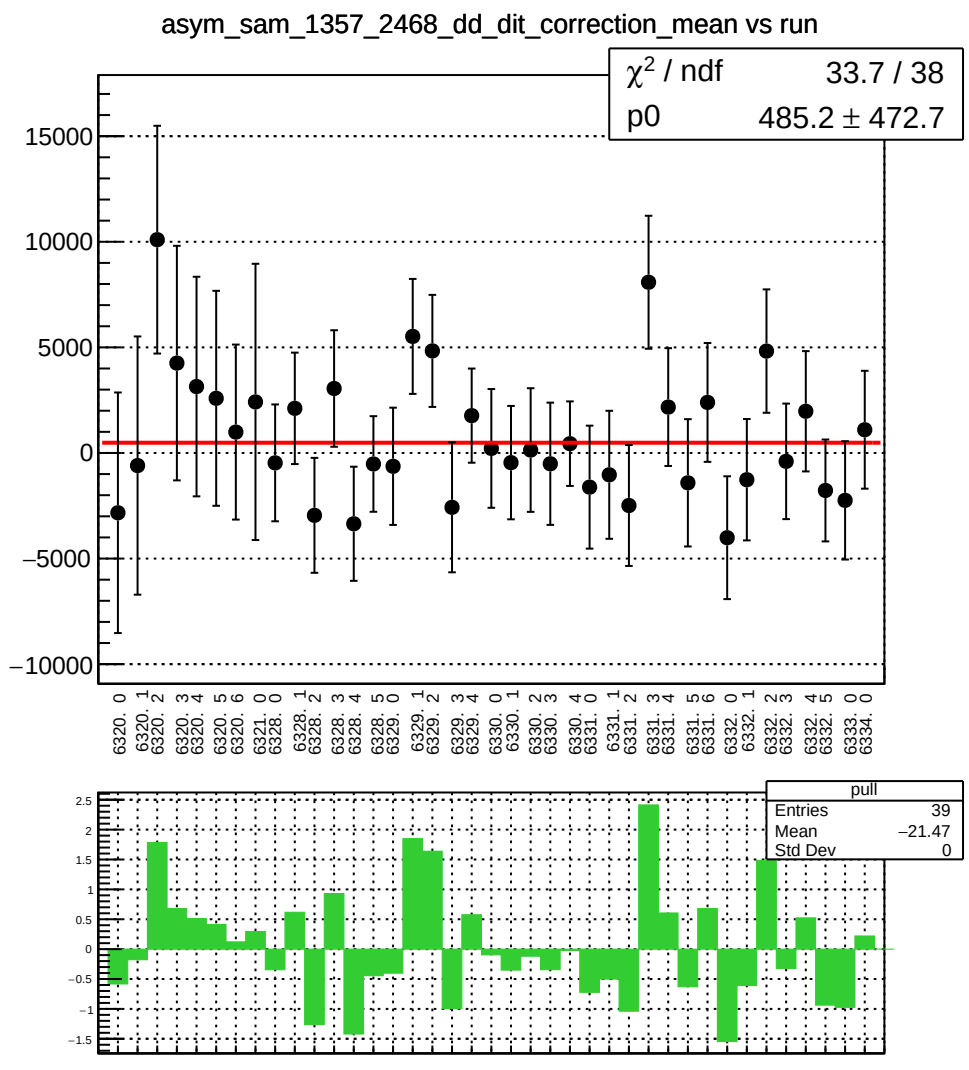

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.79 / 38
p0 462.5 ± 449.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −25.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03755
Std Dev 0.9438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

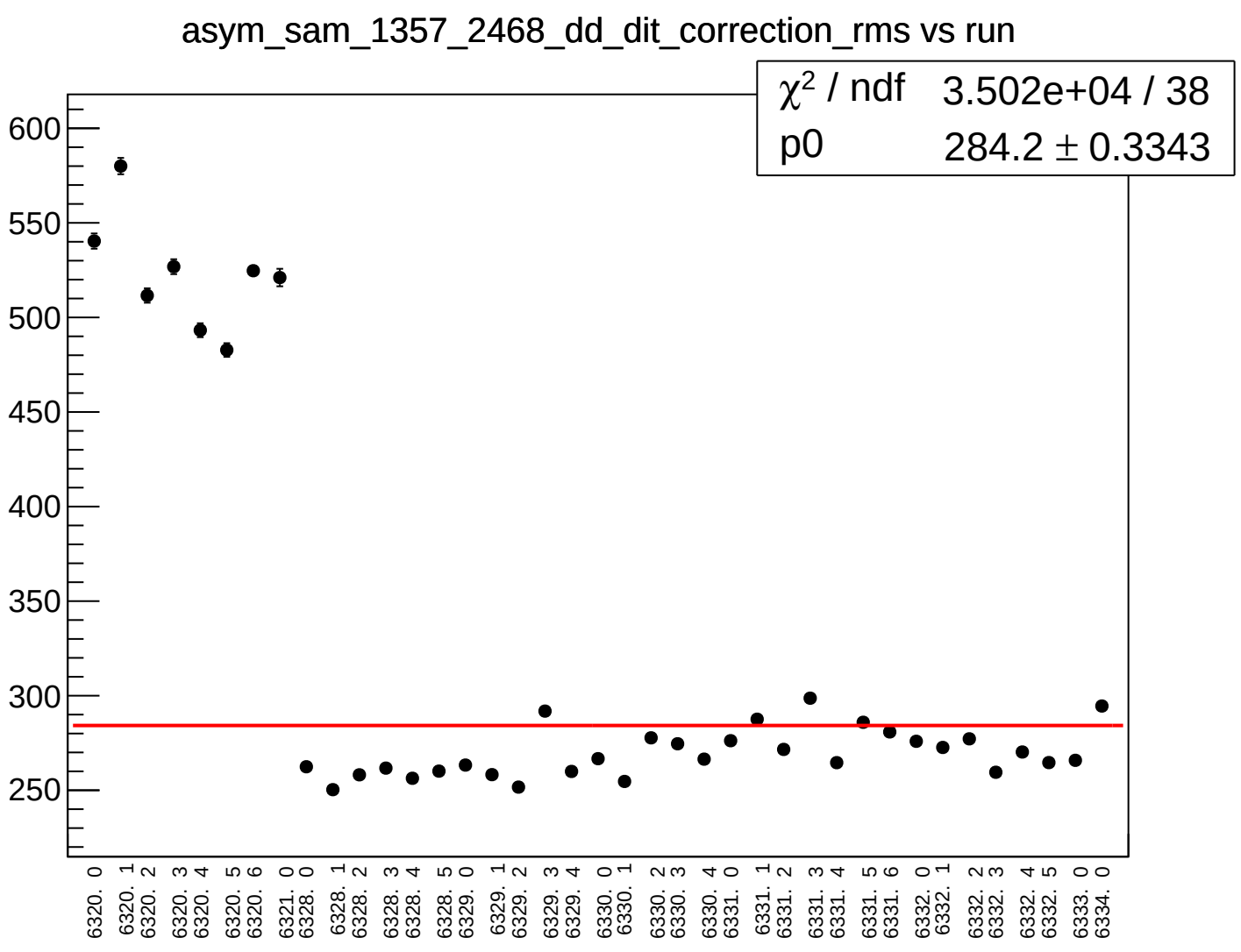

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.64e+04 / 38
p0 270.1 ± 0.3179
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

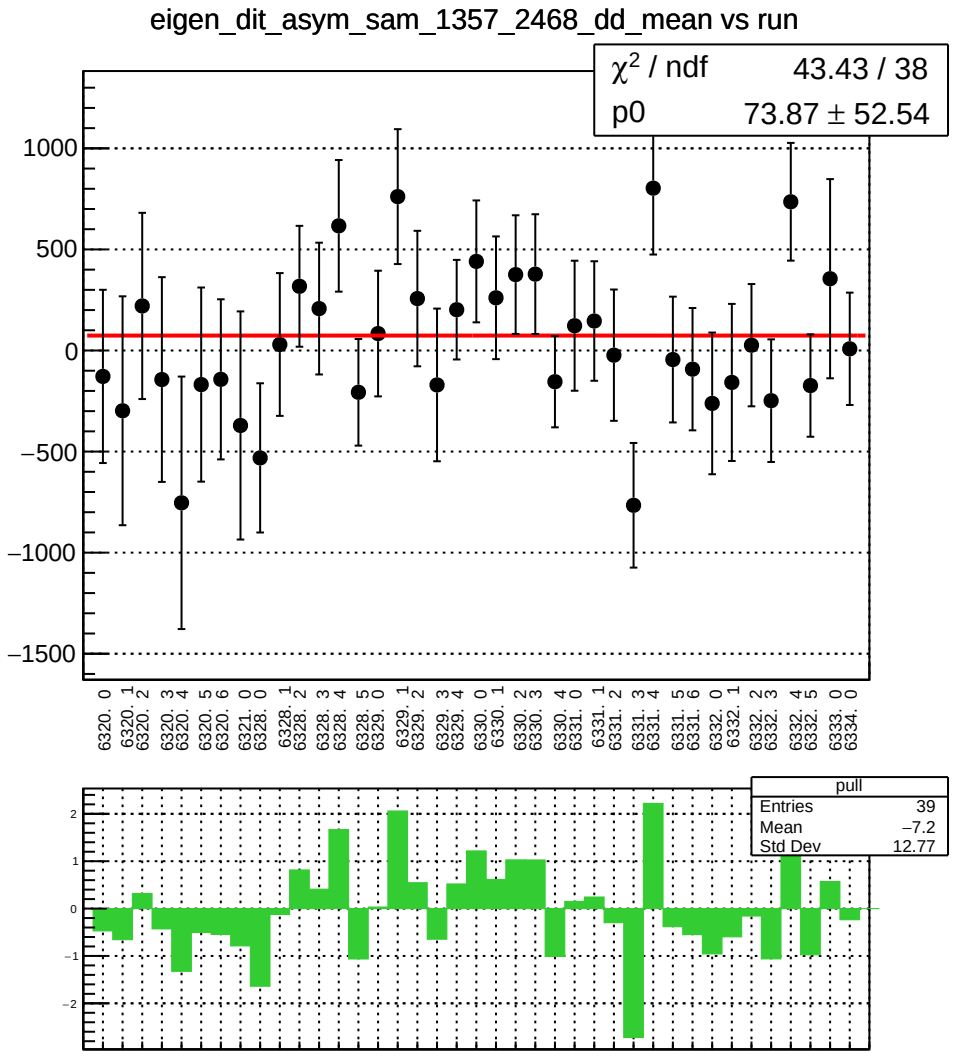

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.43 / 38
p0 73.88 ± 52.54
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.197
Std Dev 12.78
2
1
0
−1
−2

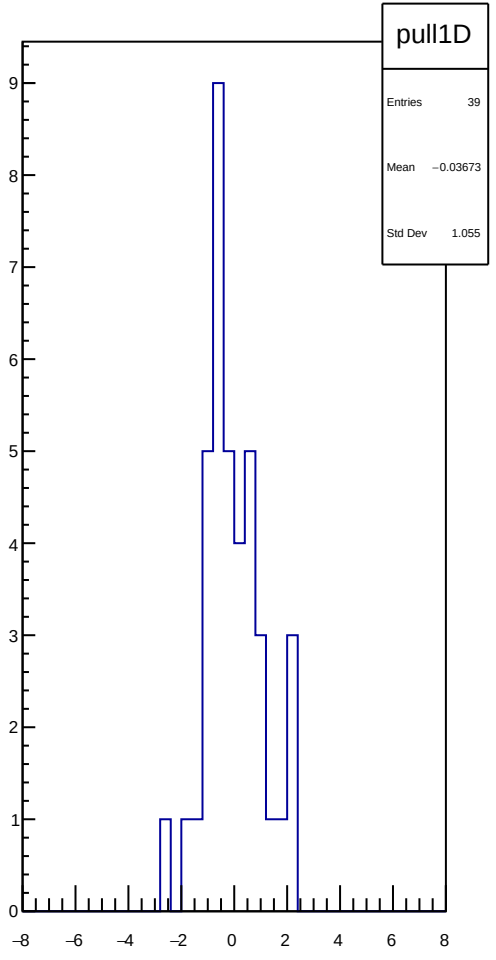

pull1D
Entries 39
Mean −0.03673
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

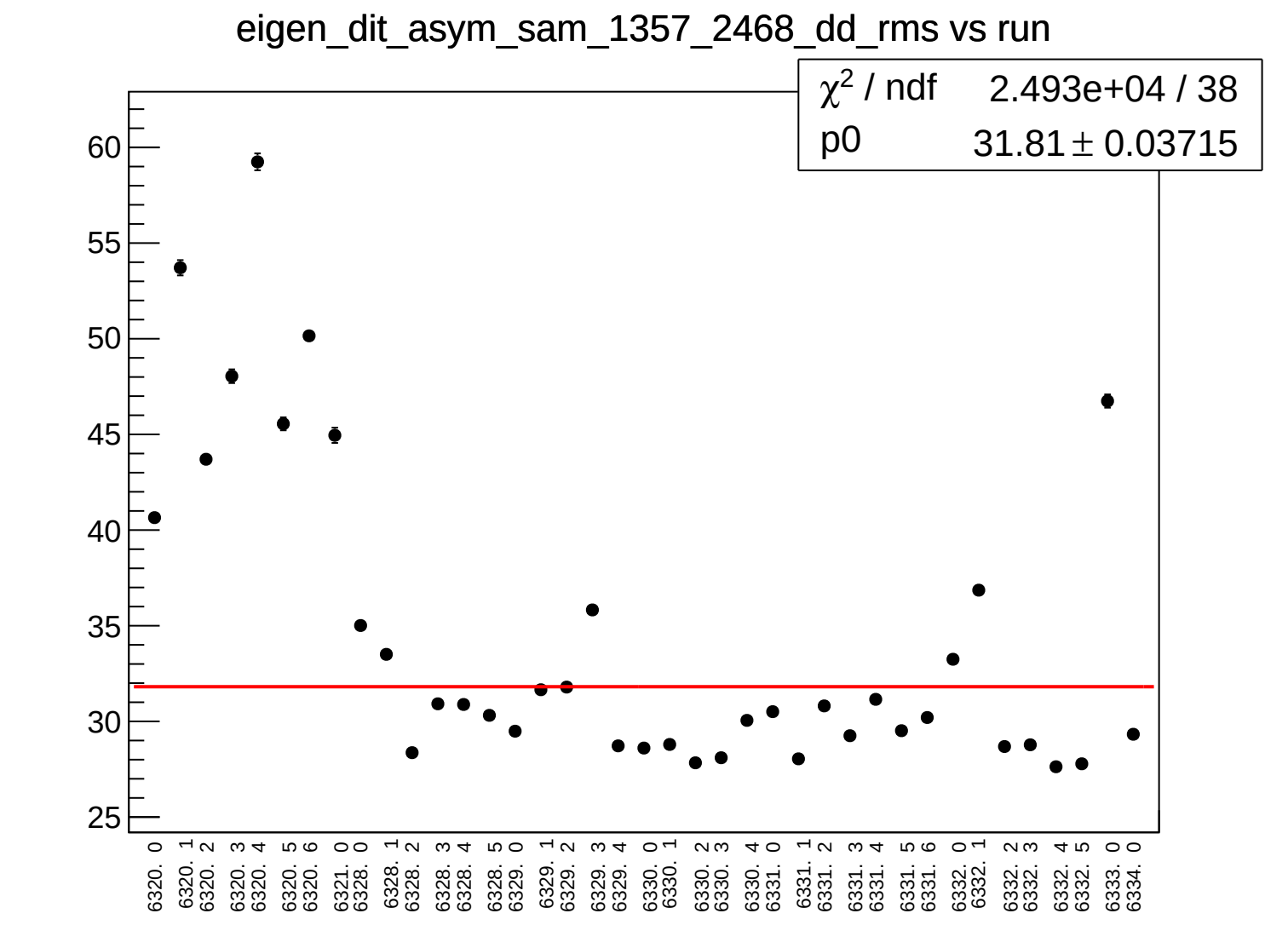

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.493e+04 / 38
p0 31.81 ± 0.03715
60
55
50
45
40
35
30
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

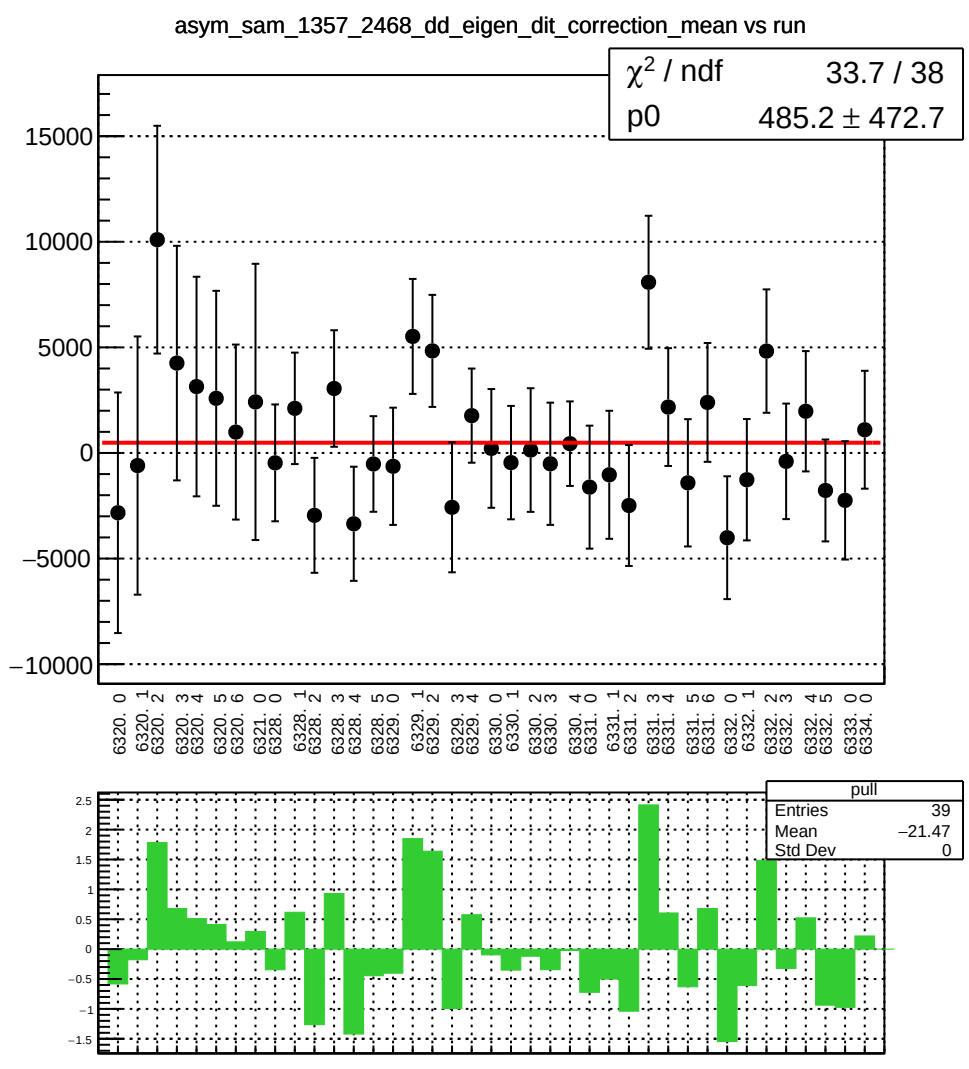

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 33.7 / 38
p0 485.2 ± 472.7
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −21.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0384
Std Dev 0.9287
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

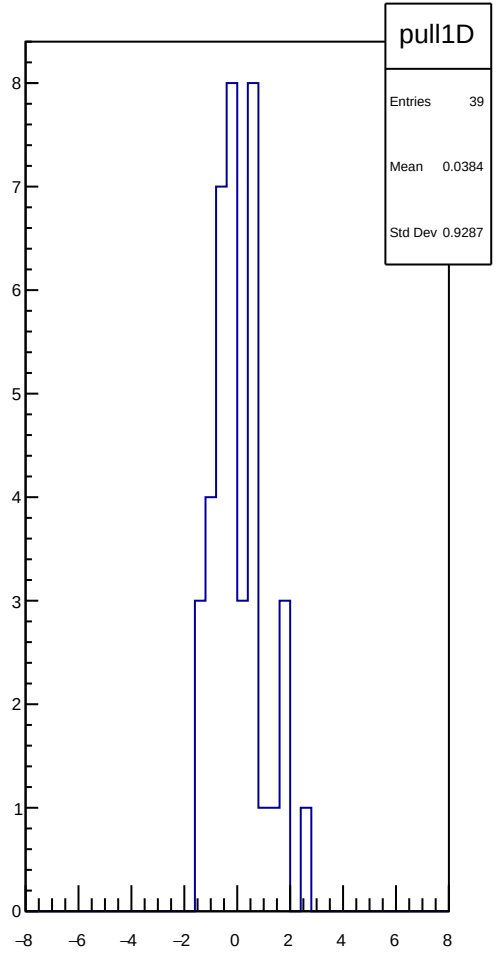

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3.502e+04 / 38
p0 284.2 ± 0.3343
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

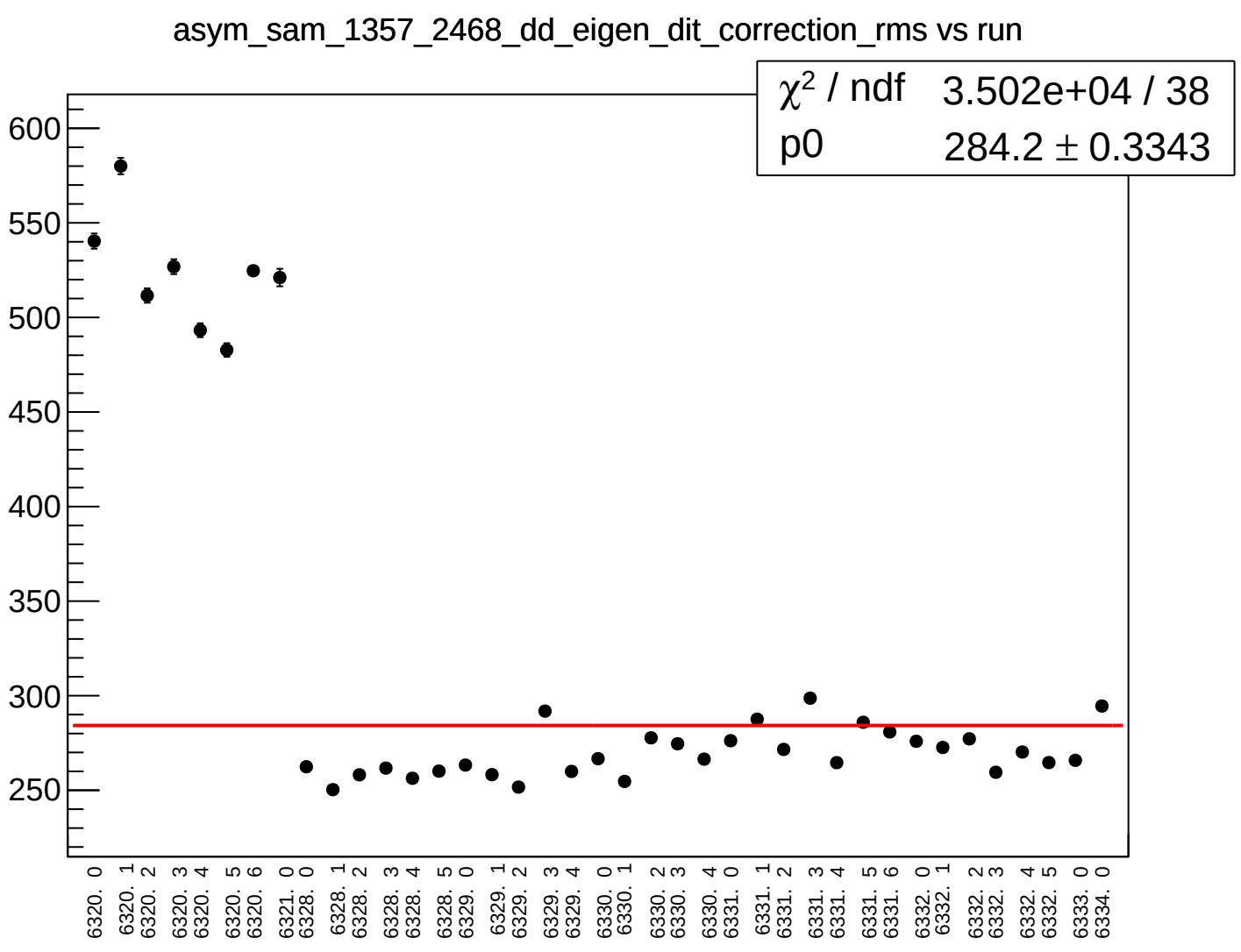

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.43 / 38
p0 73.87 ± 52.54
1000
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.2
Std Dev 12.77
2
1
0
−1
−2

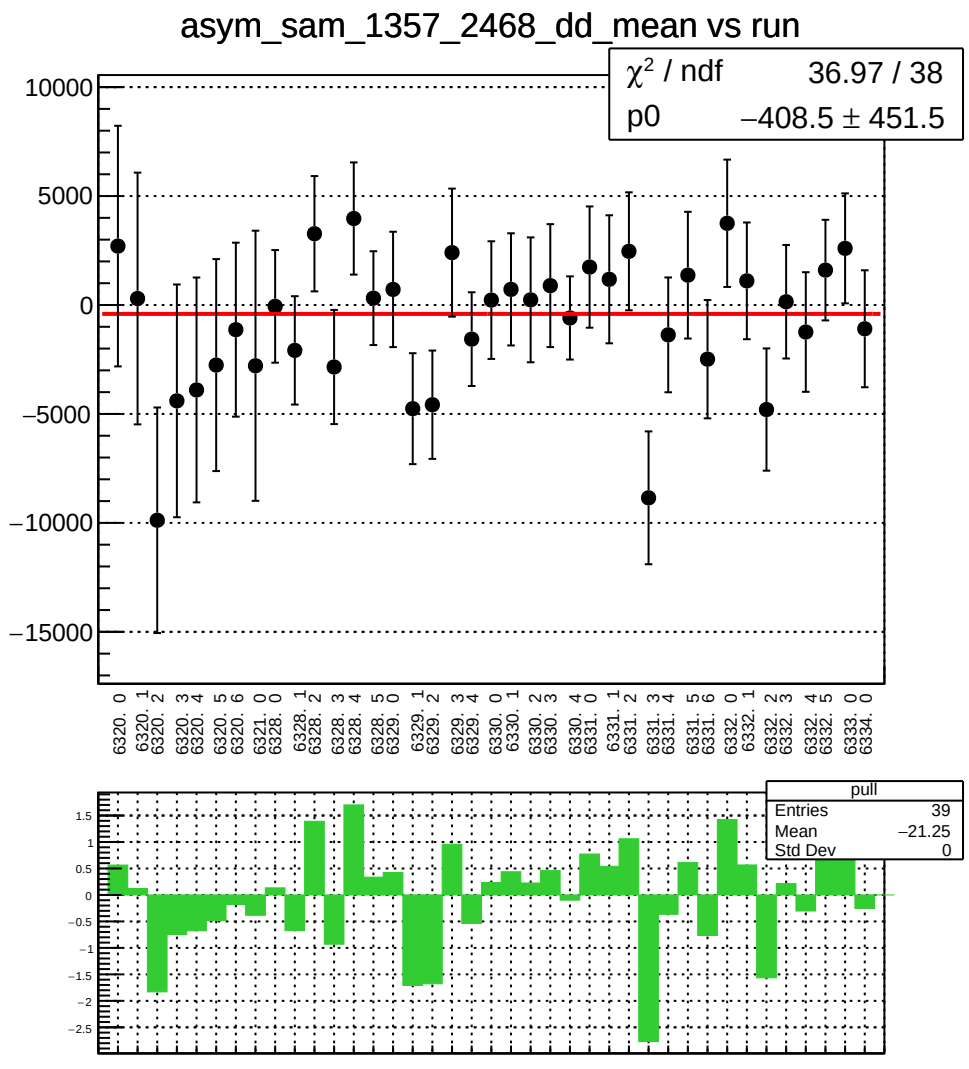

pull1D
Entries 39
Mean −0.03673
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

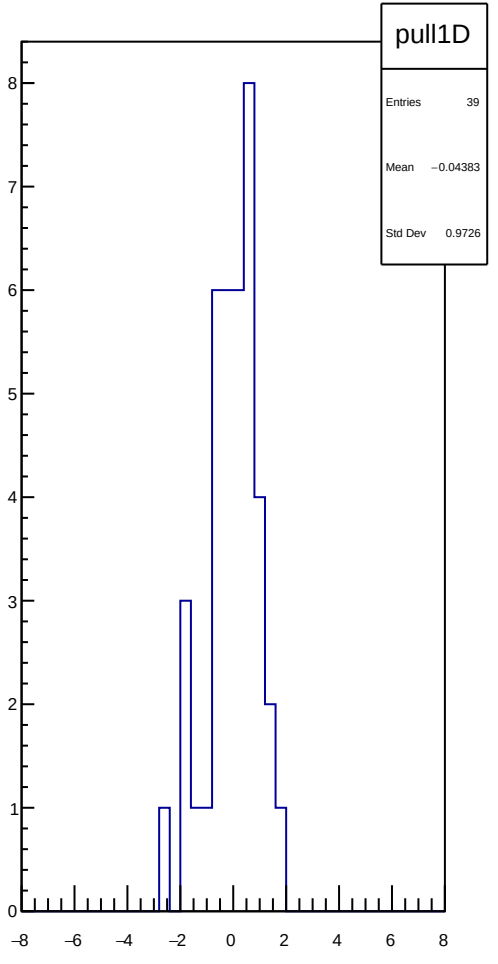

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.493e+04 / 38
p0 31.81 ± 0.03715
60
55
50
45
40
35
30
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

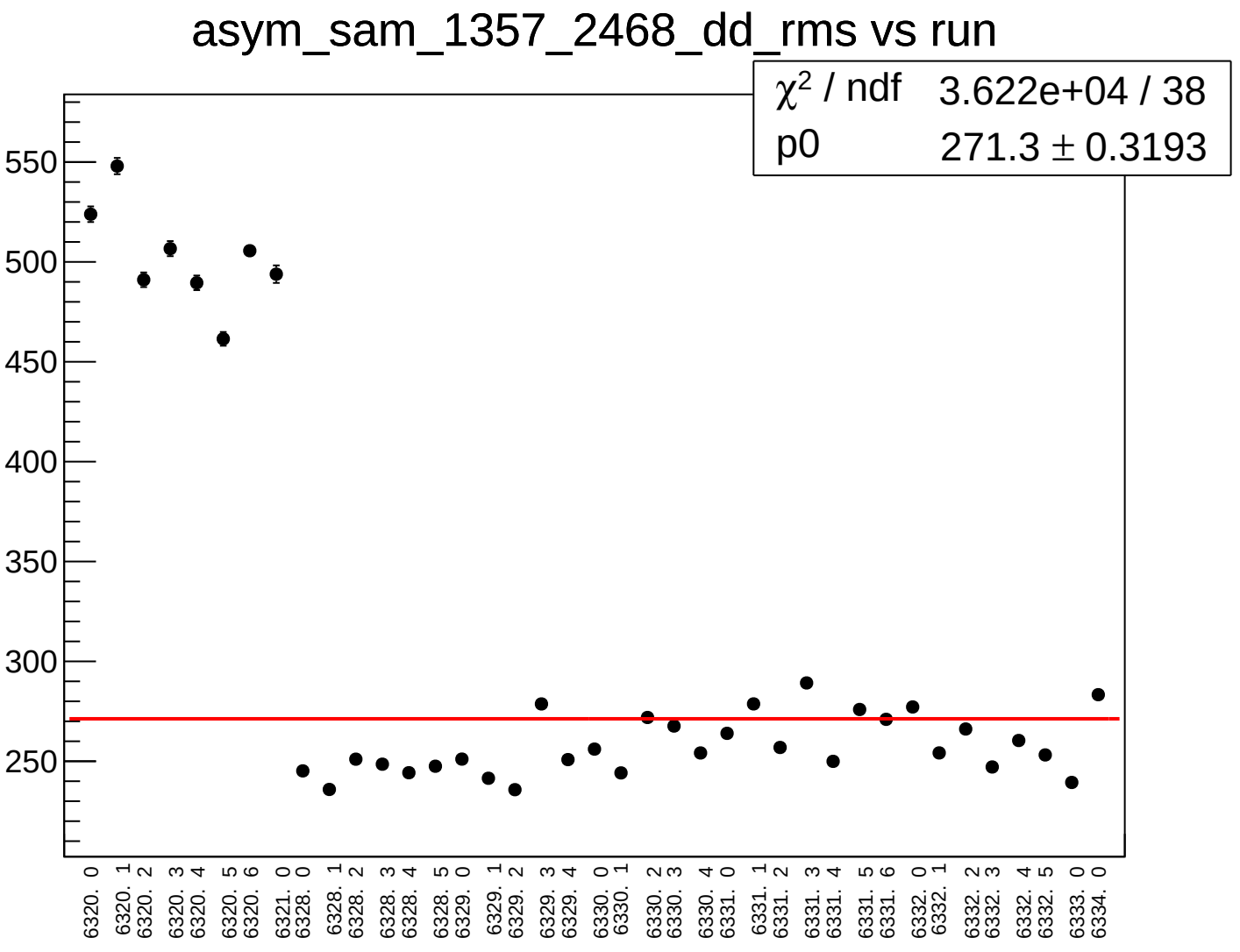

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.7 / 38
p0 485.2 ± 472.7
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −21.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

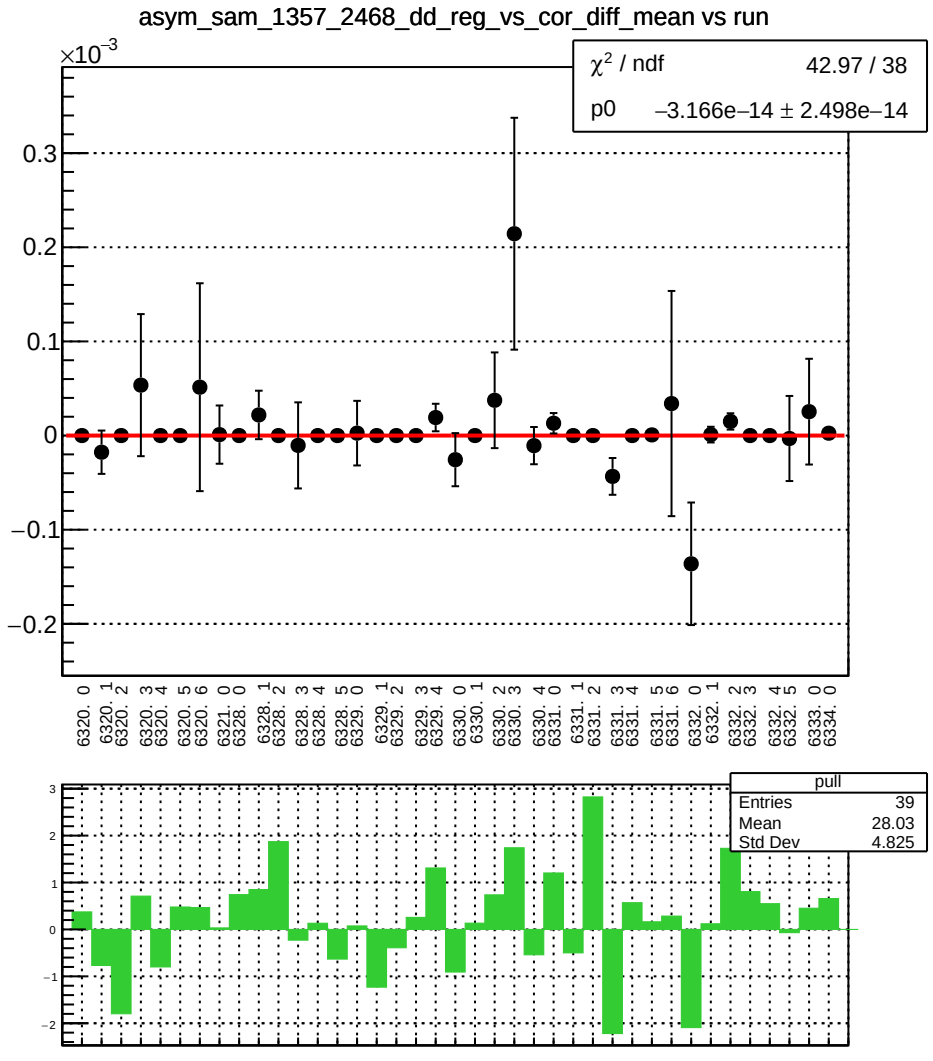

pull1D
Entries 39
Mean 0.0384
Std Dev 0.9287
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

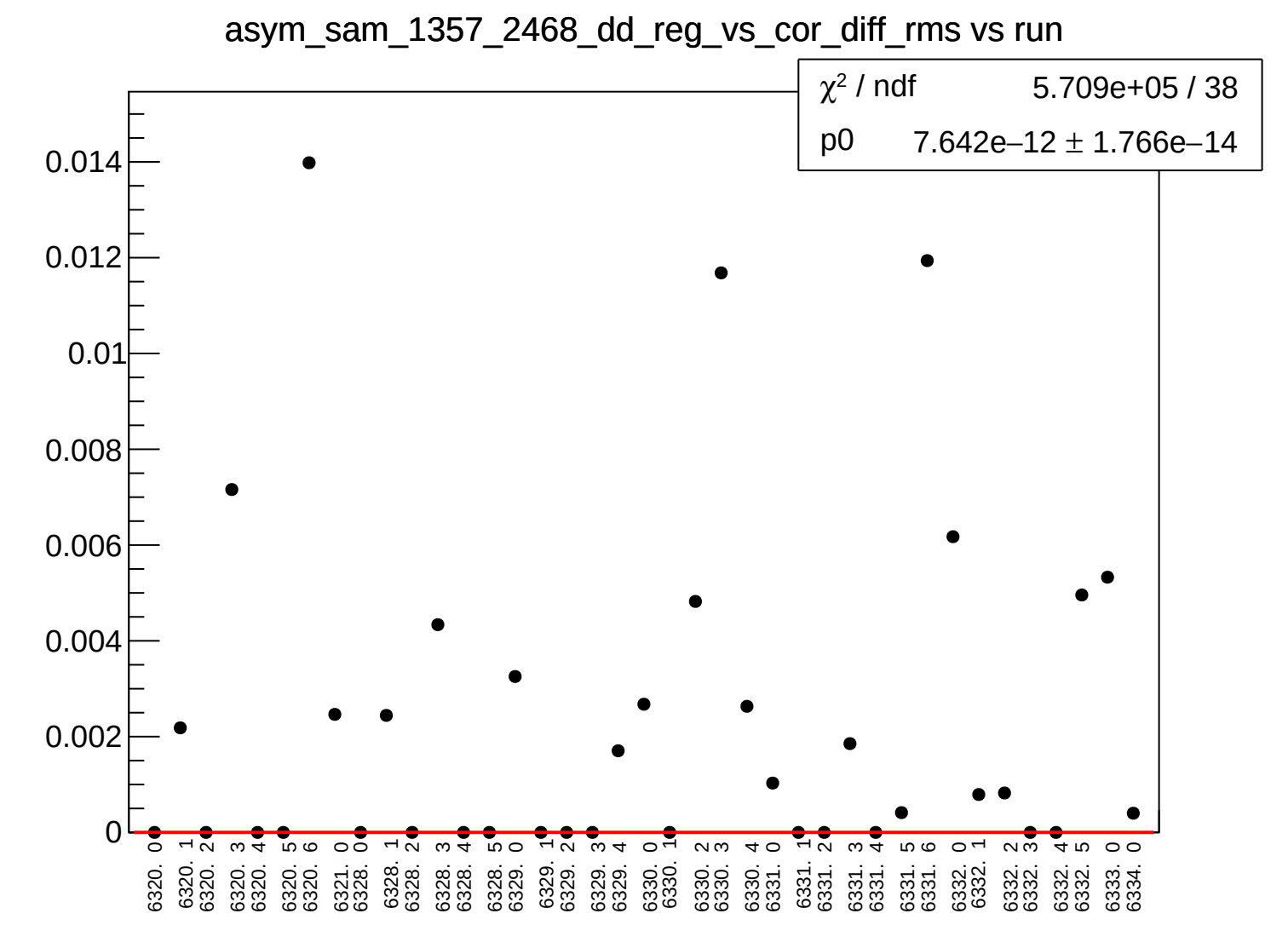

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.502e+04 / 38
p0 284.2 ± 0.3343
600
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

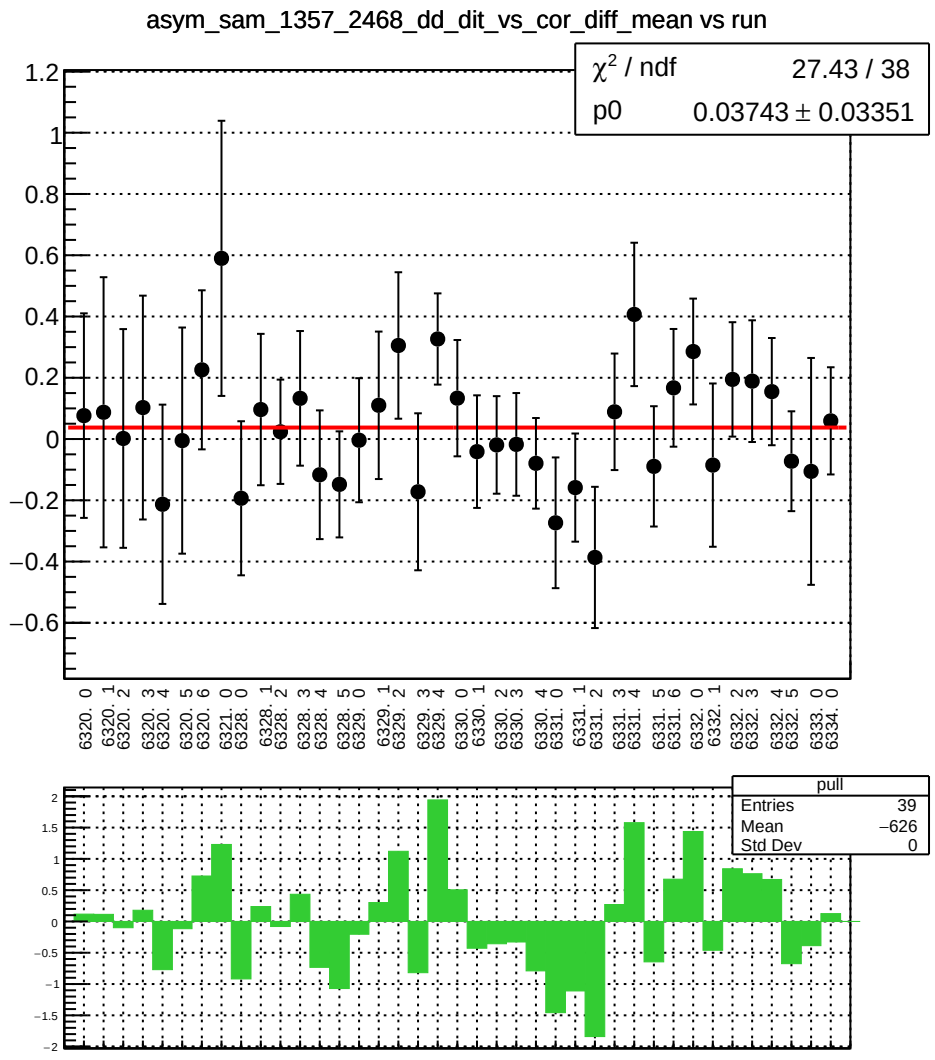

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 36.97 / 38
p0 −408.5 ± 451.5
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −21.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

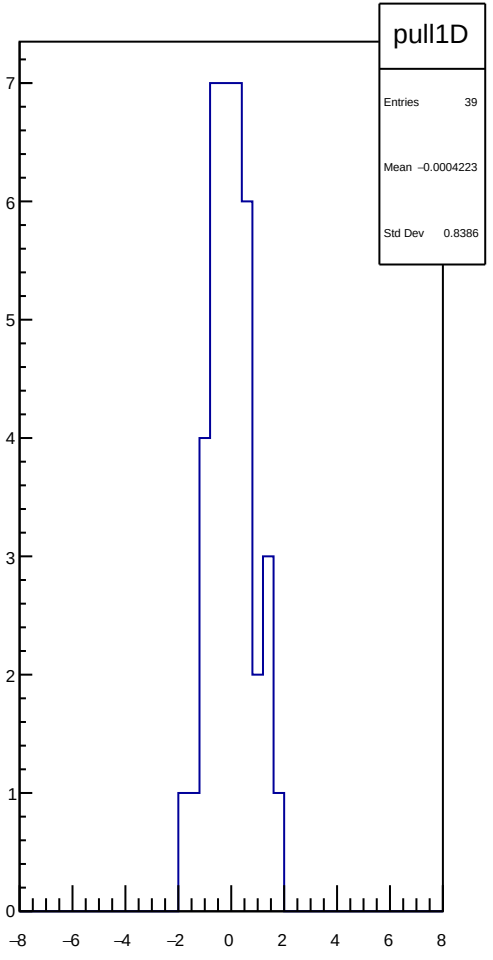

pull1D
Entries 39
Mean −0.04383
Std Dev 0.9726
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

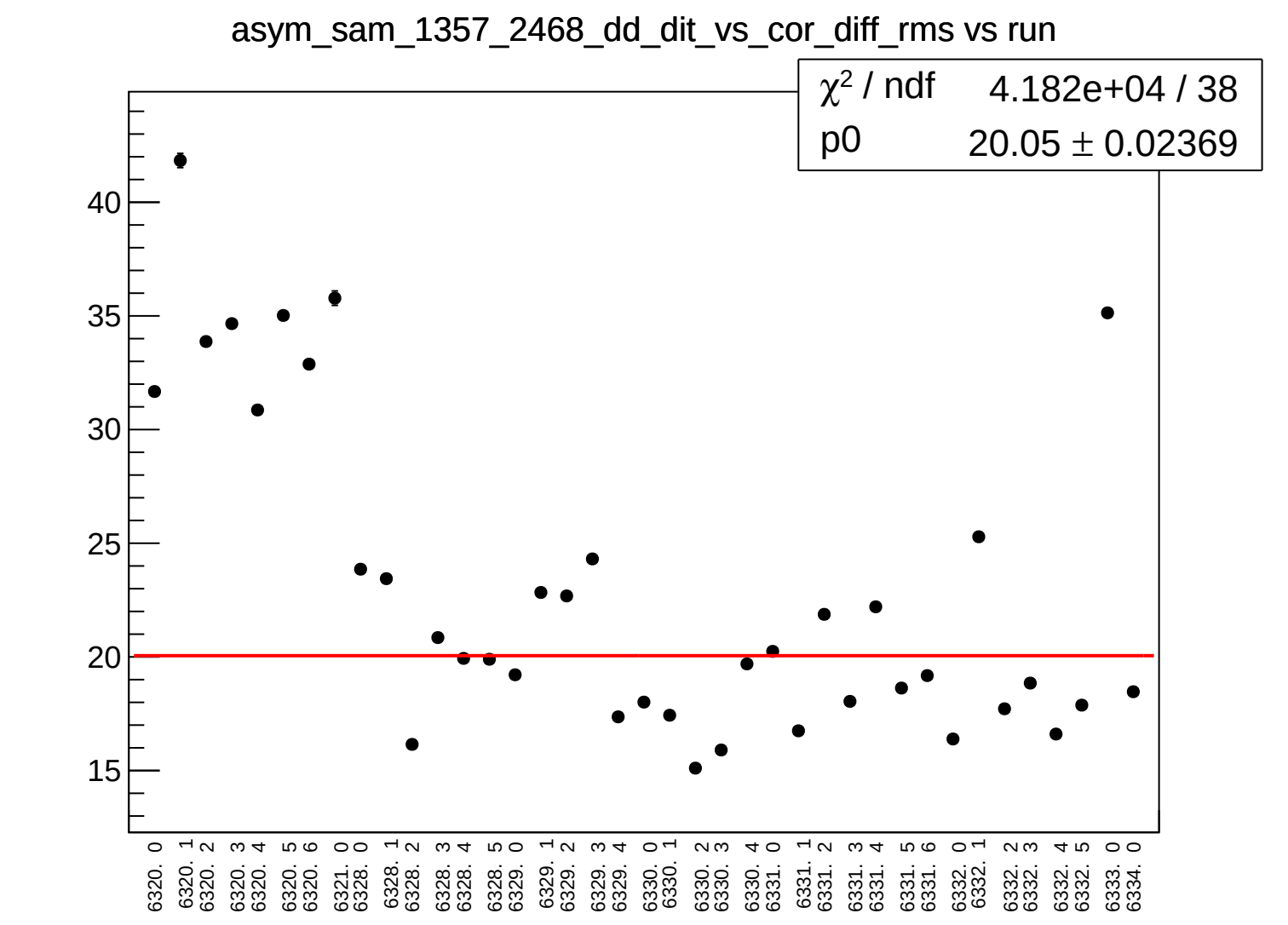

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.622e+04 / 38
p0 271.3 ± 0.3193
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

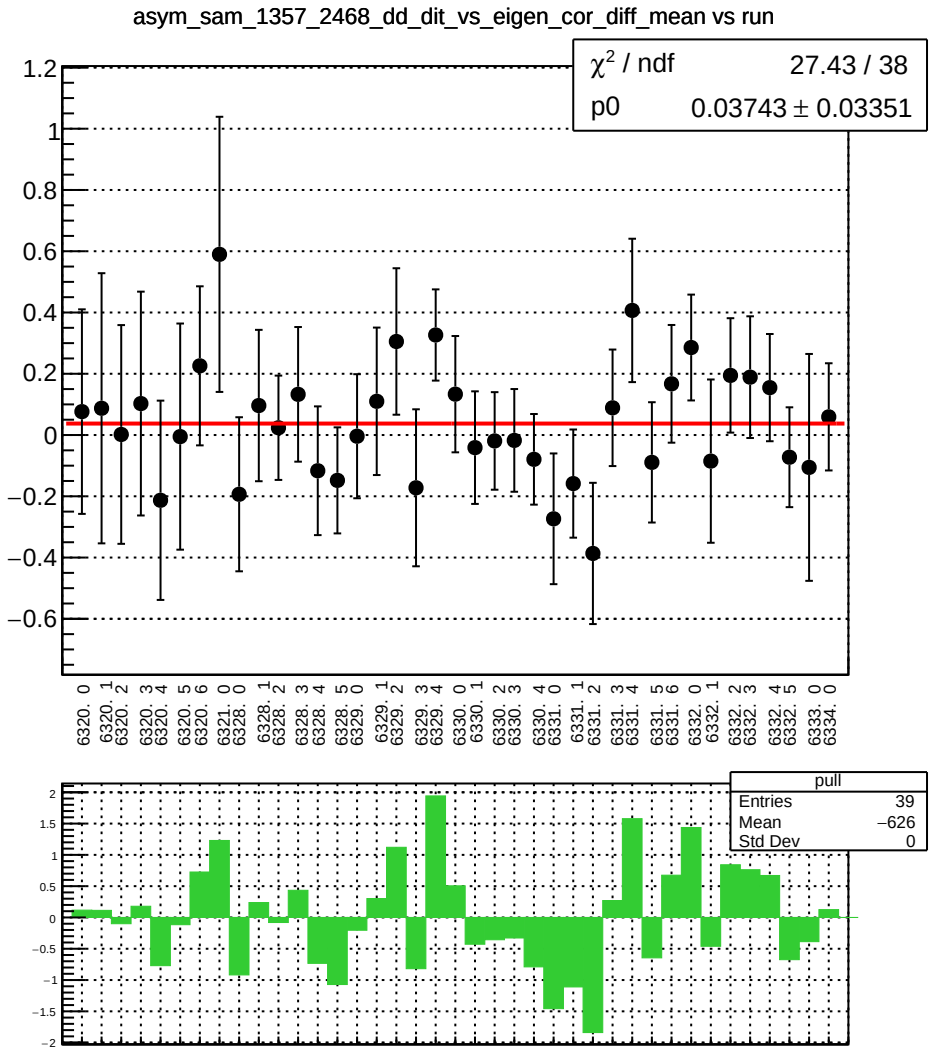

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 42.97 / 38
p0 −3.166e−14 ± 2.498e−14
0.3
0.2
0.1
0
−0.1
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.03
Std Dev 4.825
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.1818
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

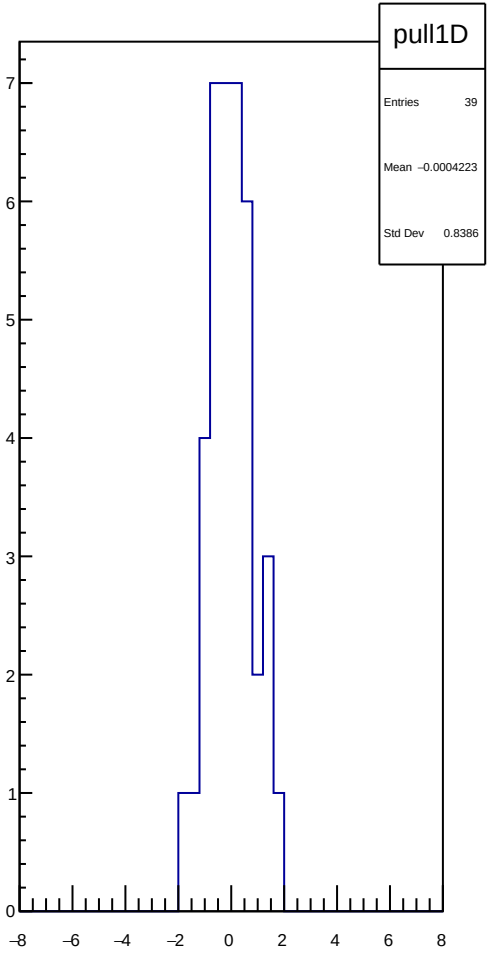

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.709e+05 / 38
p0 7.642e−12 ± 1.766e−14
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

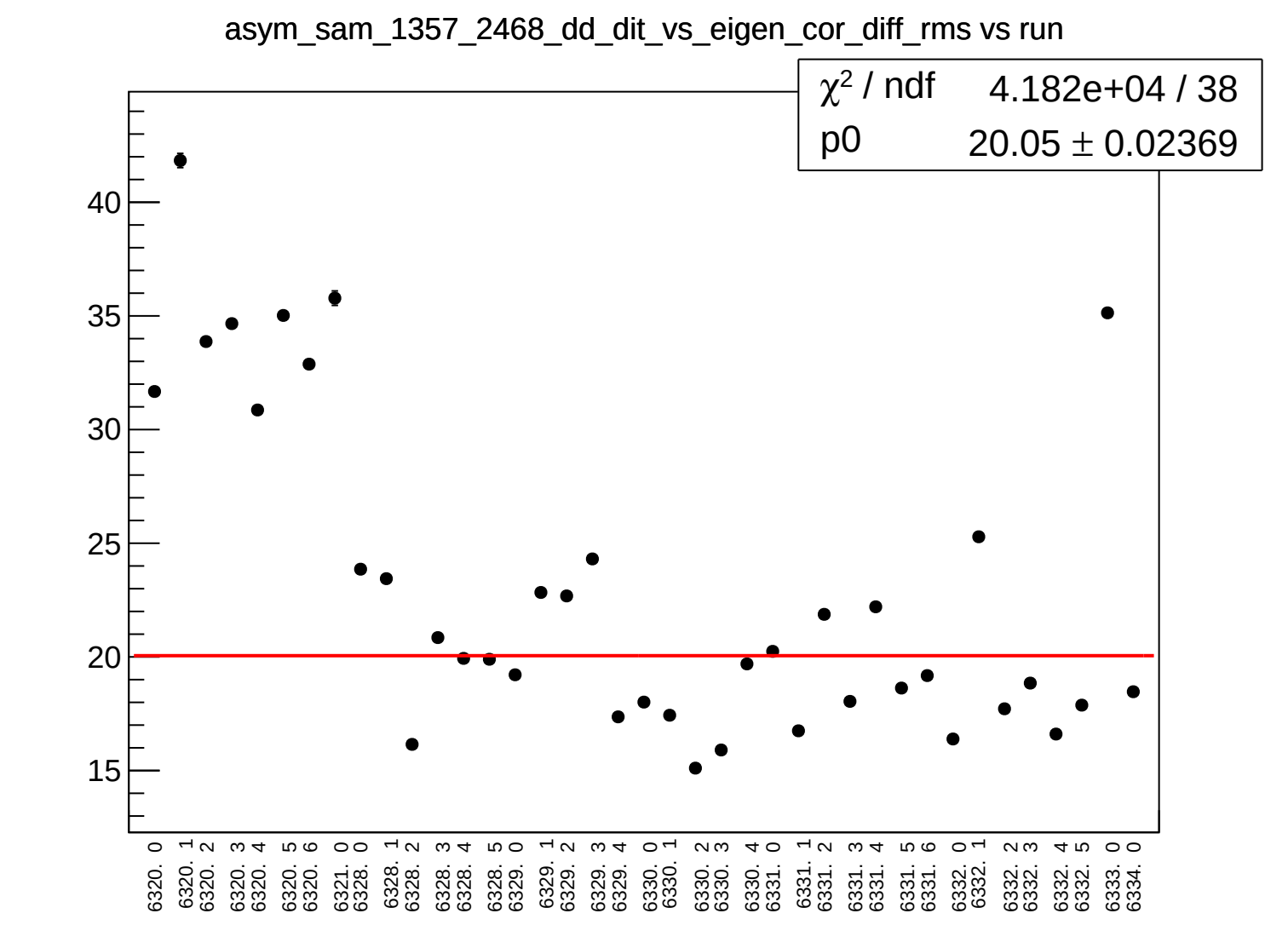

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.43 / 38
p0 0.03743 ± 0.03351
pull
Entries 39
Mean −626
Std Dev 0

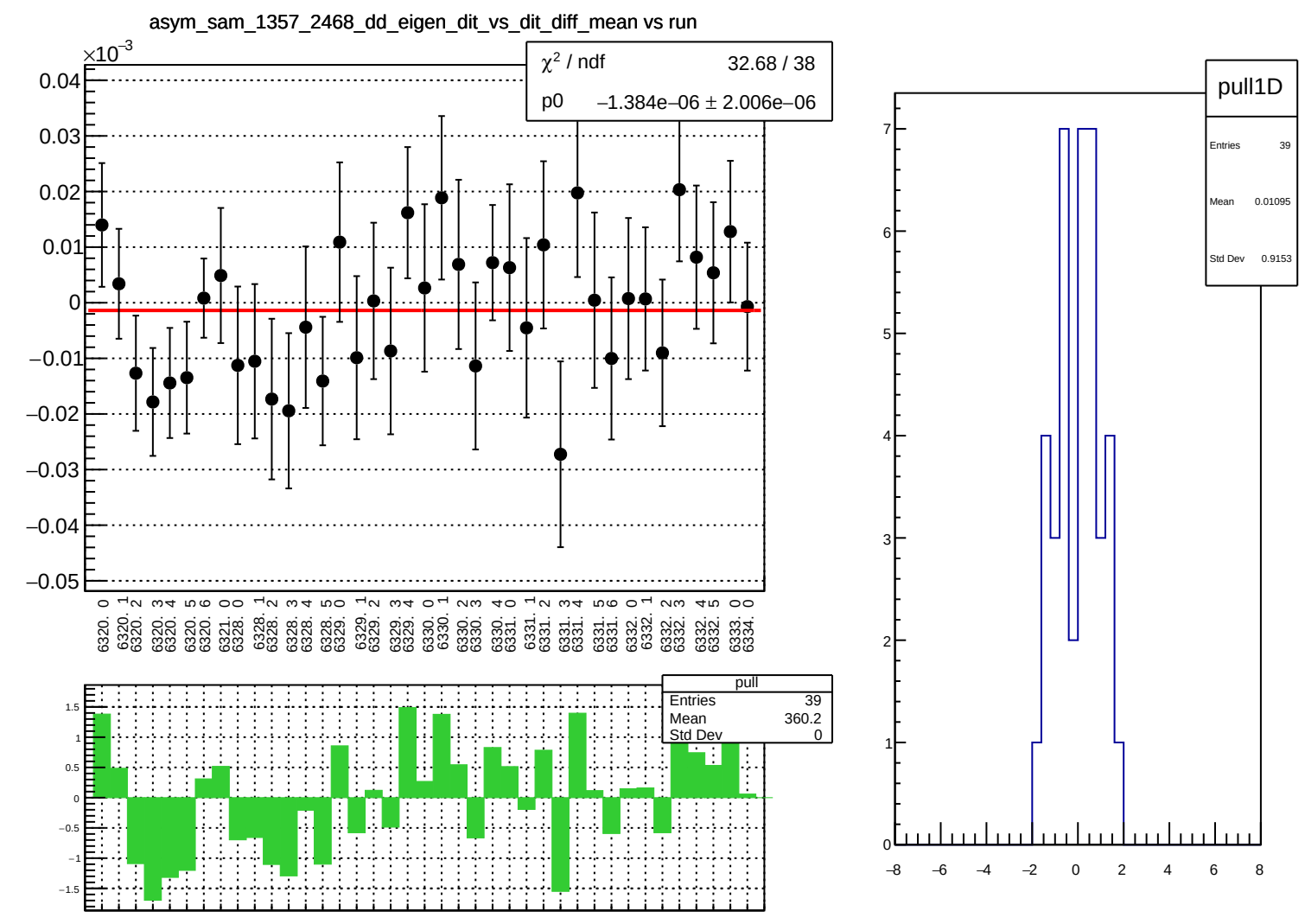

pull1D
Entries 39
Mean −0.0004223
Std Dev 0.8386

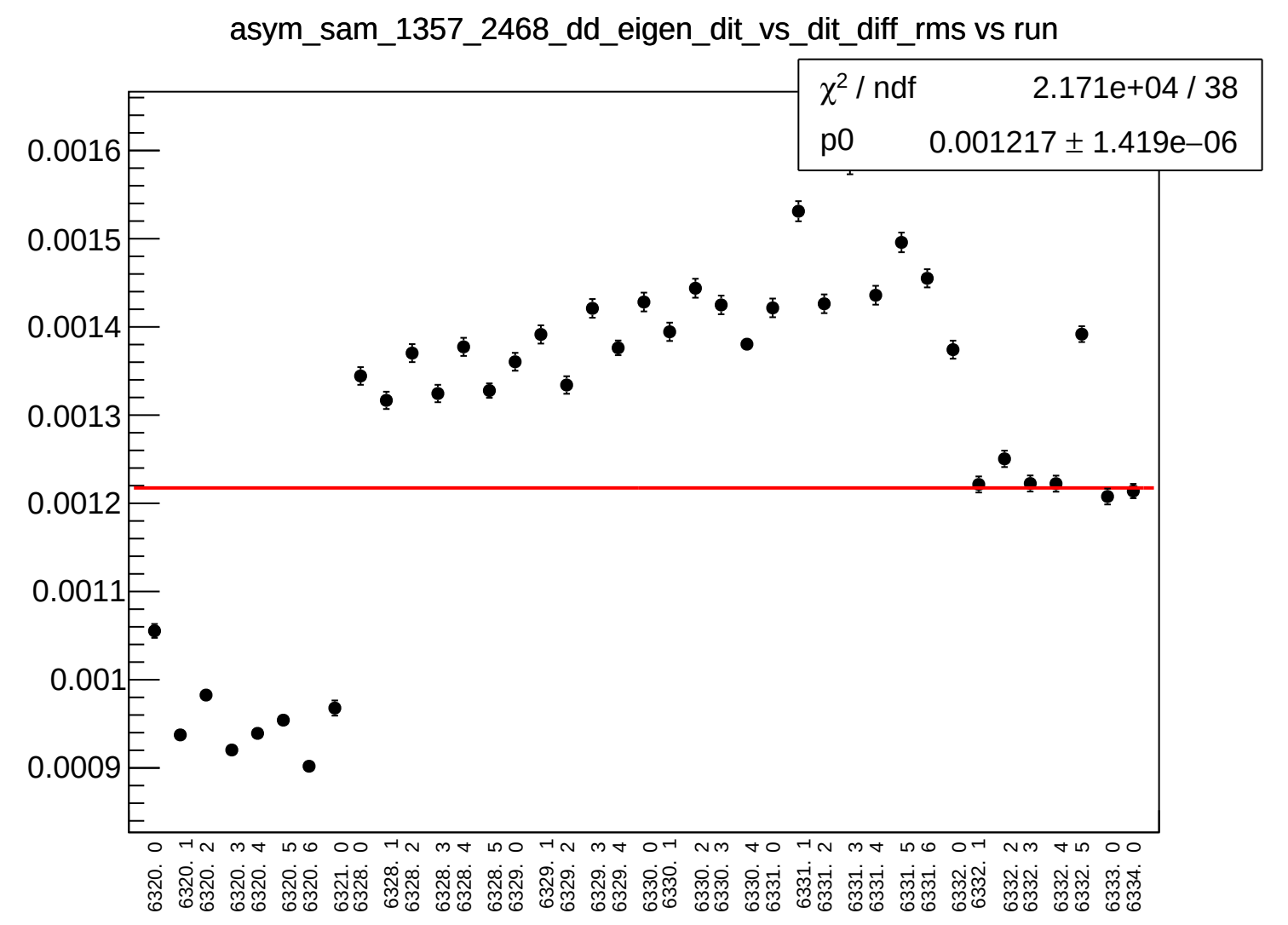

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.182e+04 / 38
p0 20.05 ± 0.02369
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

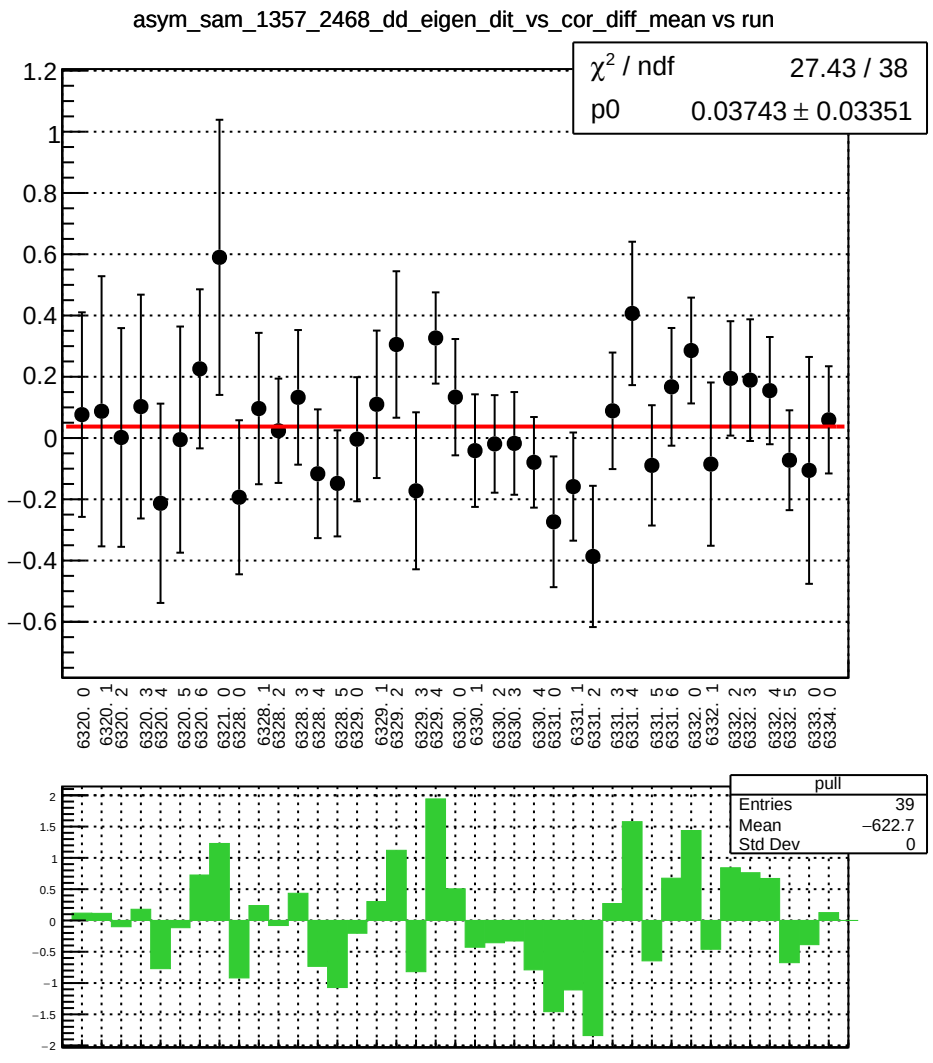

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.43 / 38
p0 0.03743 ± 0.03351
pull
Entries 39
Mean −626
Std Dev 0

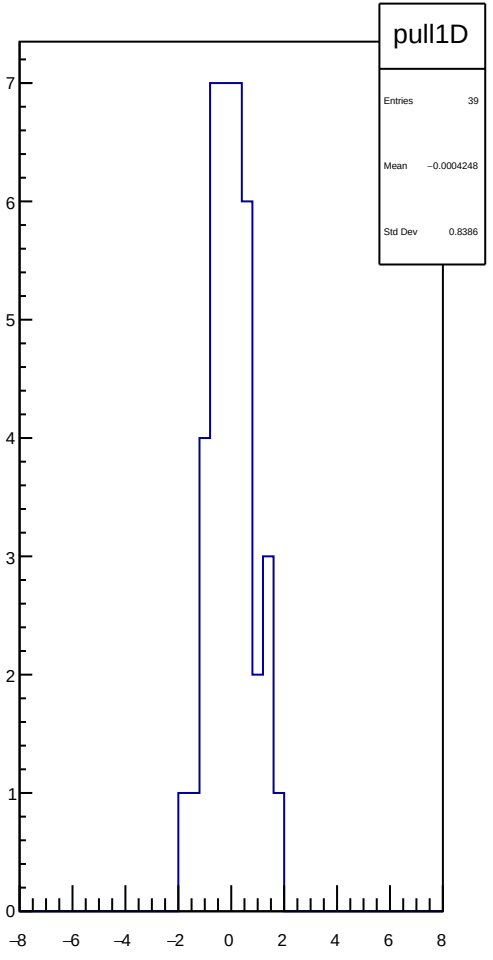

pull1D
Entries 39
Mean −0.0004223
Std Dev 0.8386

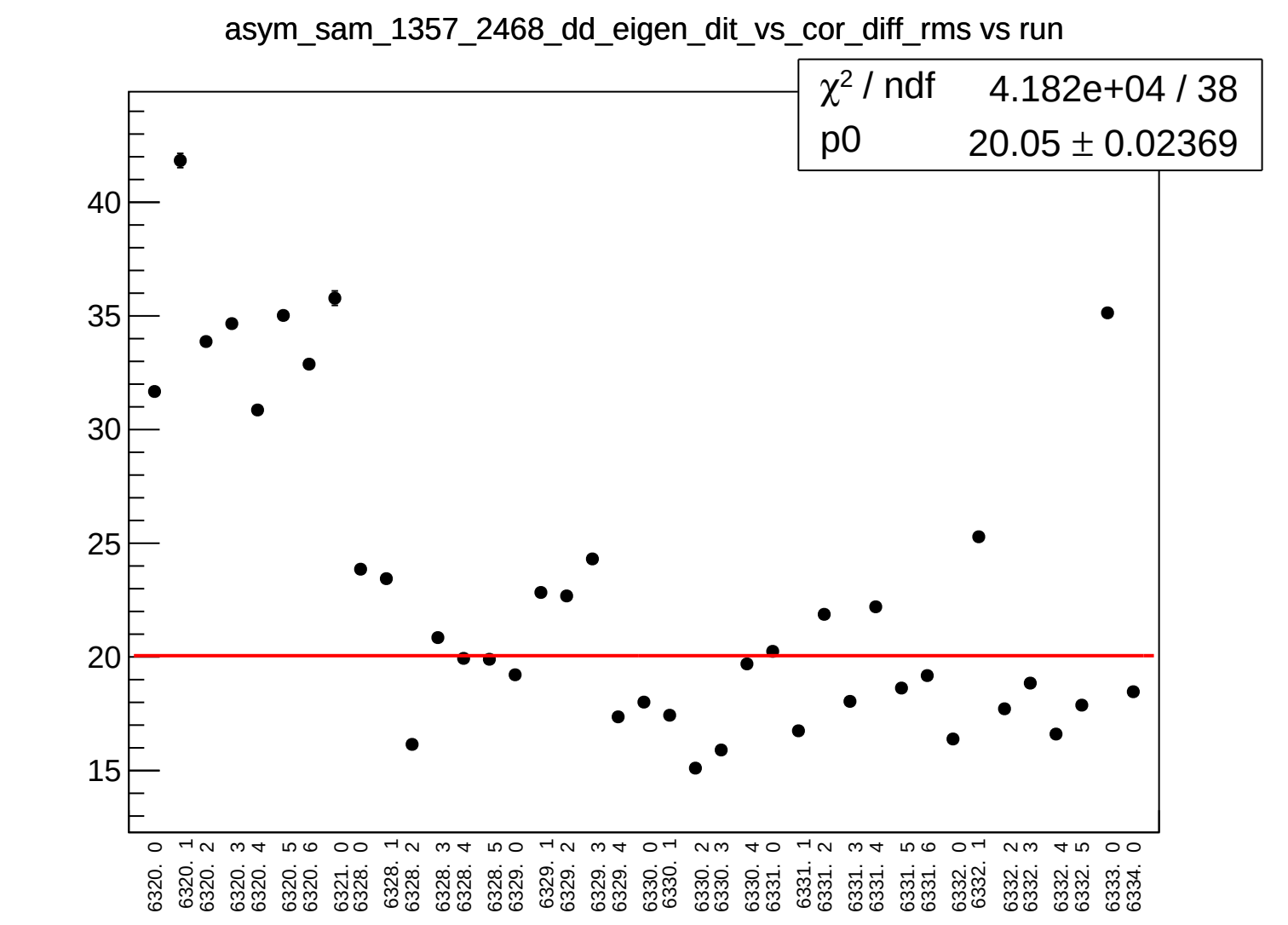

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.182e+04 / 38
p0 20.05 ± 0.02369
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

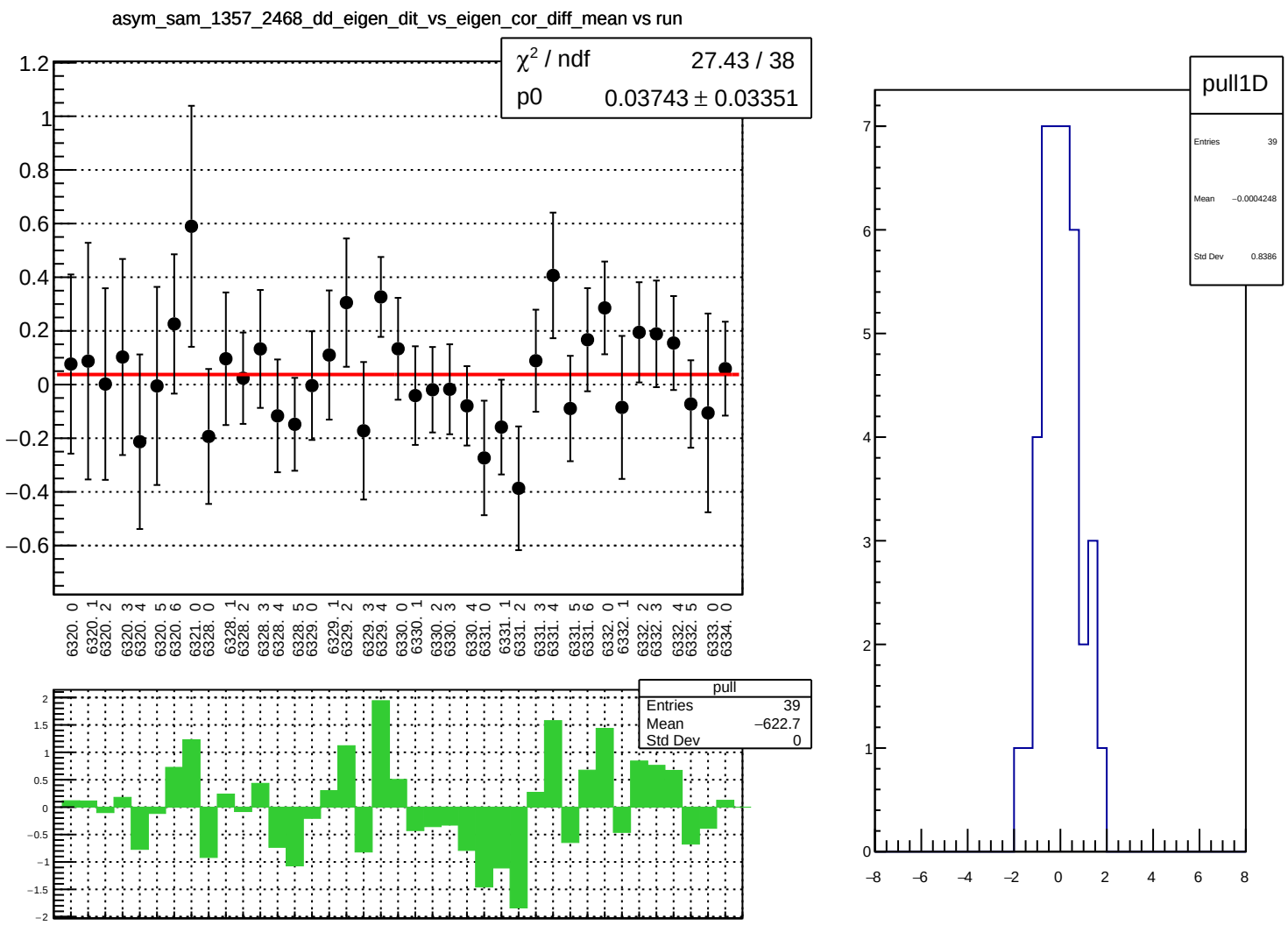

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.68 / 38
p0 −1.384e−06 ± 2.006e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 360.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01095
Std Dev 0.9153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

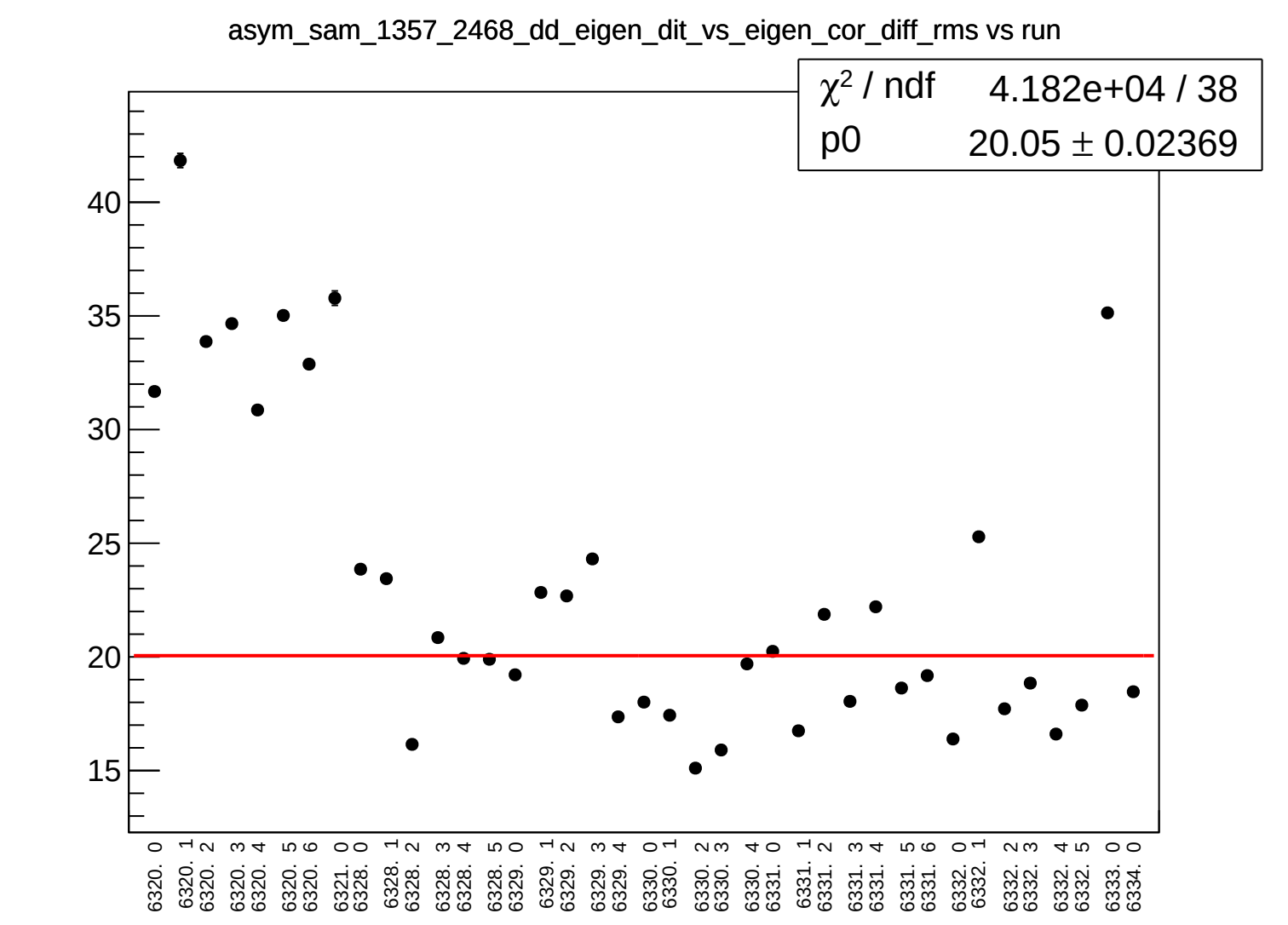

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.171e+04 / 38
p0 0.001217 ± 1.419e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

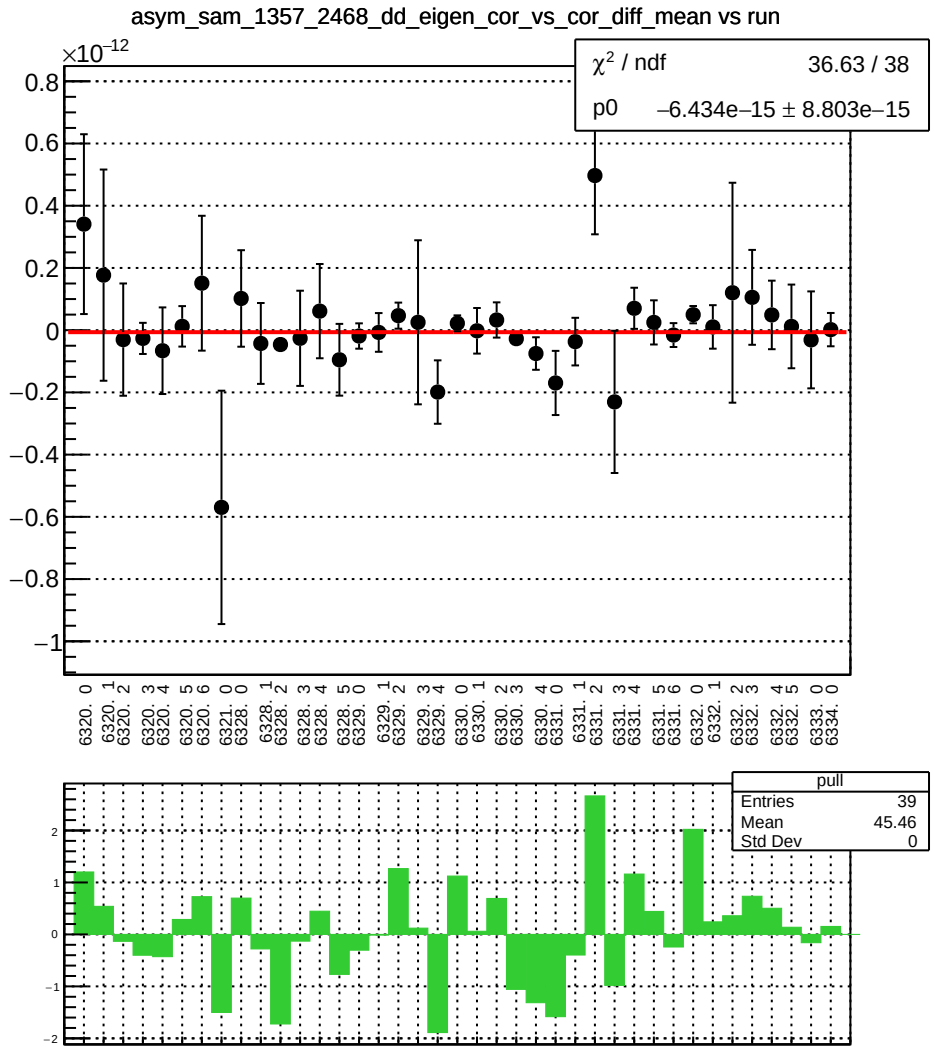

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.43 / 38
p0 0.03743 ± 0.03351
pull
Entries 39
Mean −622.7
Std Dev 0

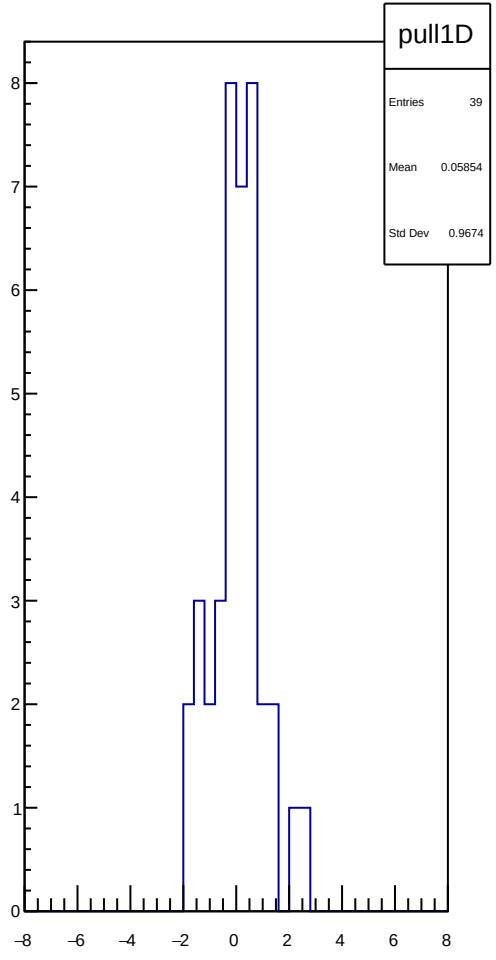

pull1D
Entries 39
Mean −0.0004248
Std Dev 0.8386

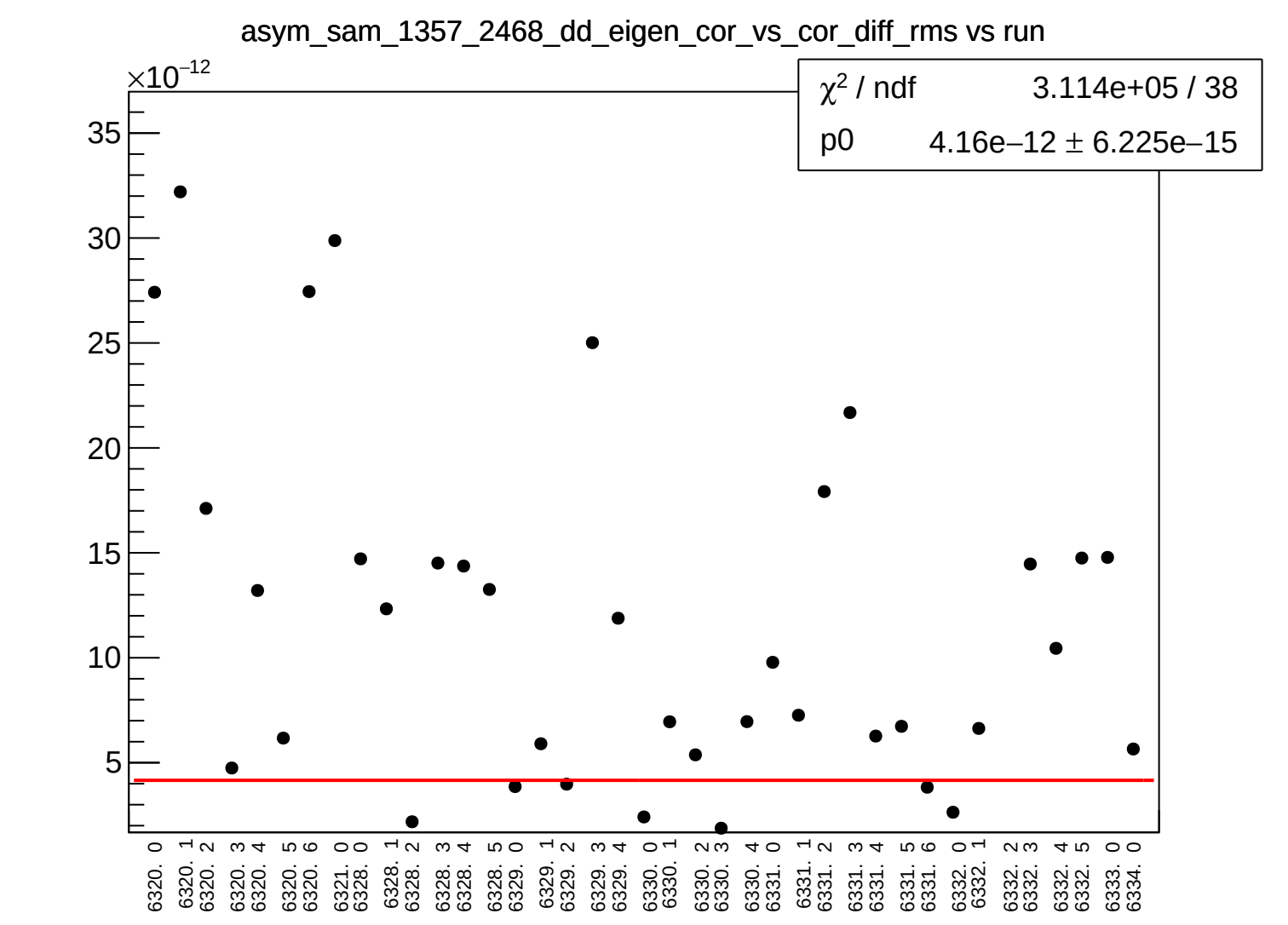

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.182e+04 / 38
p0 20.05 ± 0.02369
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

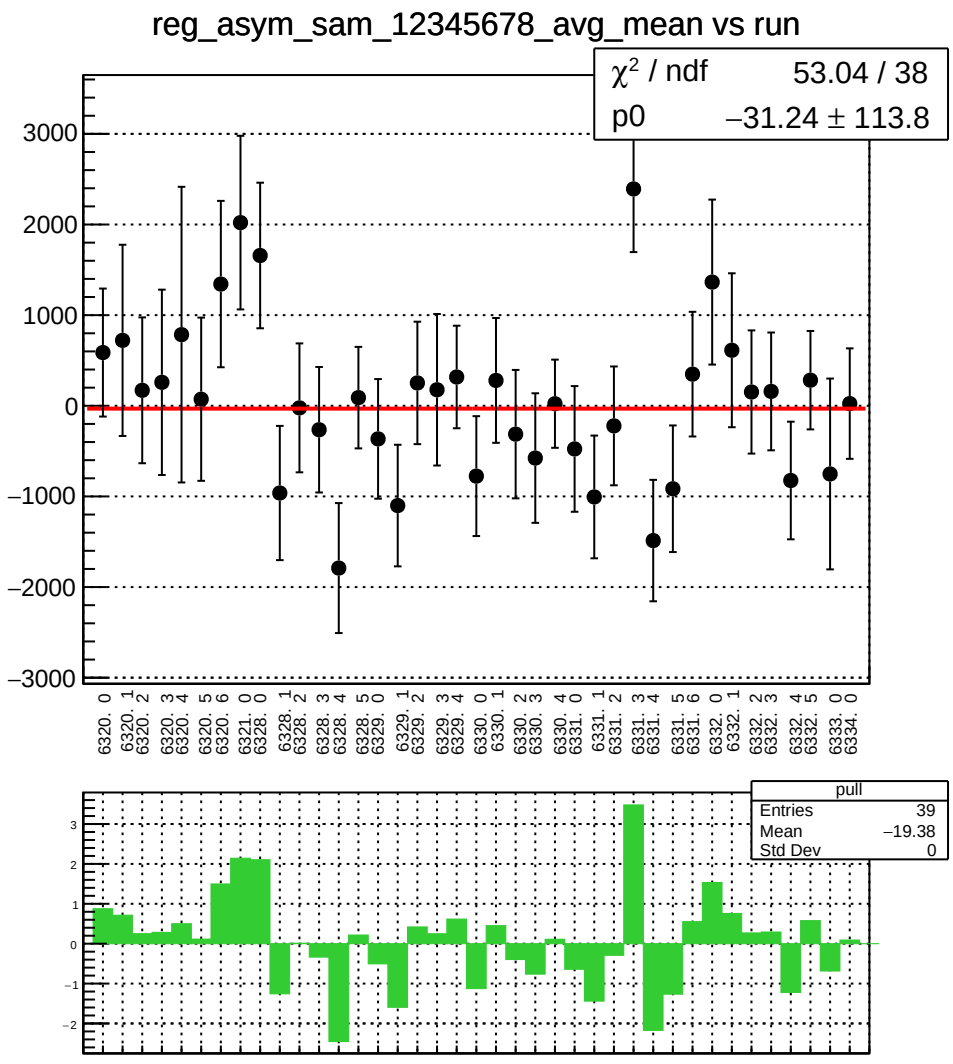

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.43 / 38
p0 0.03743 ± 0.03351
pull
Entries 39
Mean −622.7
Std Dev 0
pull1D
Entries 39
Mean −0.0004248
Std Dev 0.8386

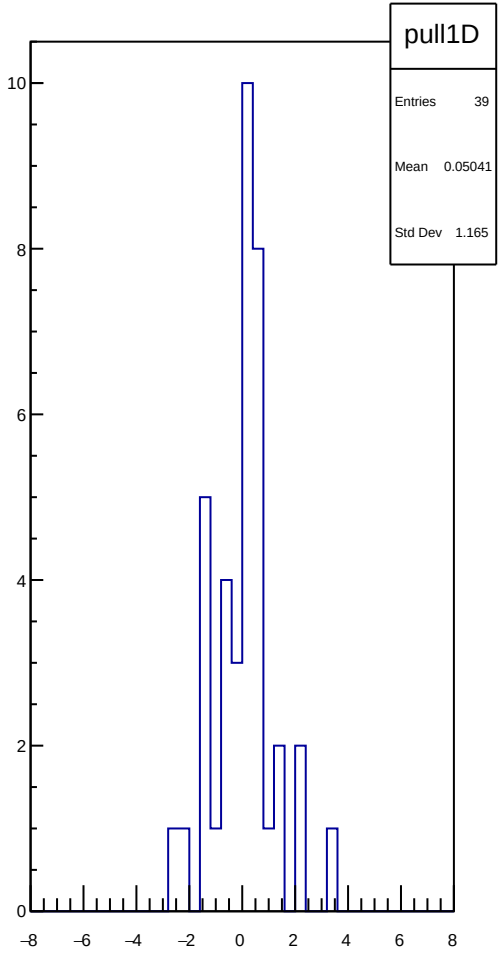

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.182e+04 / 38
p0 20.05 ± 0.02369
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

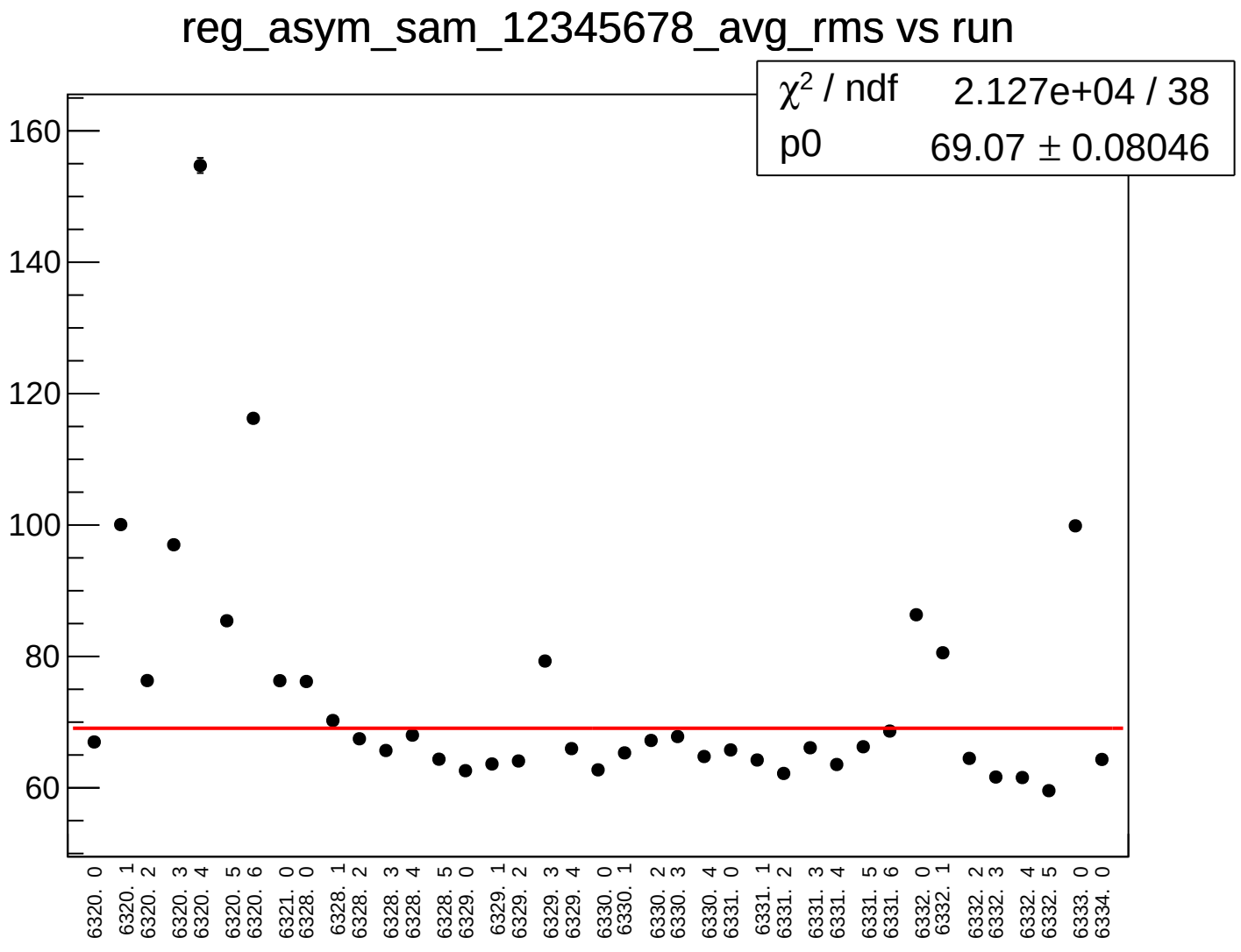

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.63 / 38
p0 −6.434e−15 ± 8.803e−15
pull
Entries 39
Mean 45.46
Std Dev 0

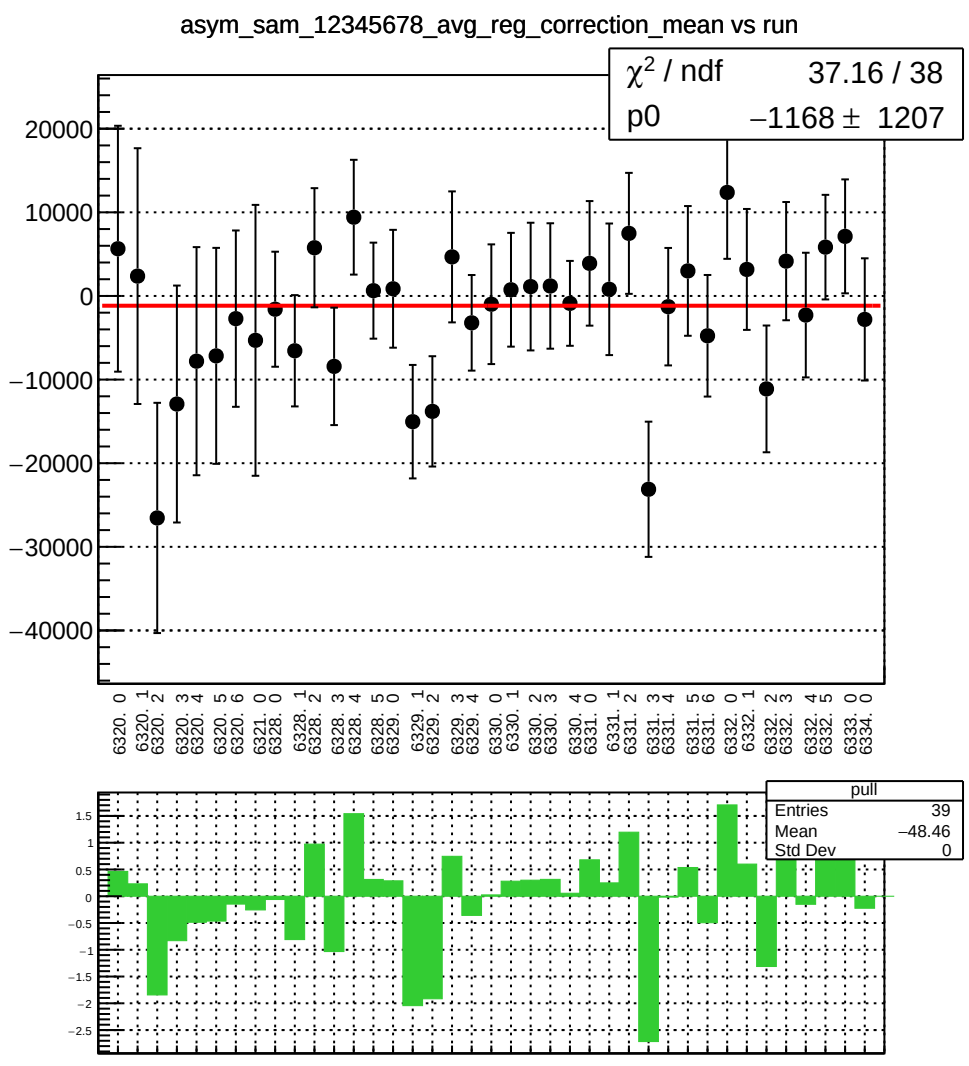

pull1D
Entries 39
Mean 0.05854
Std Dev 0.9674

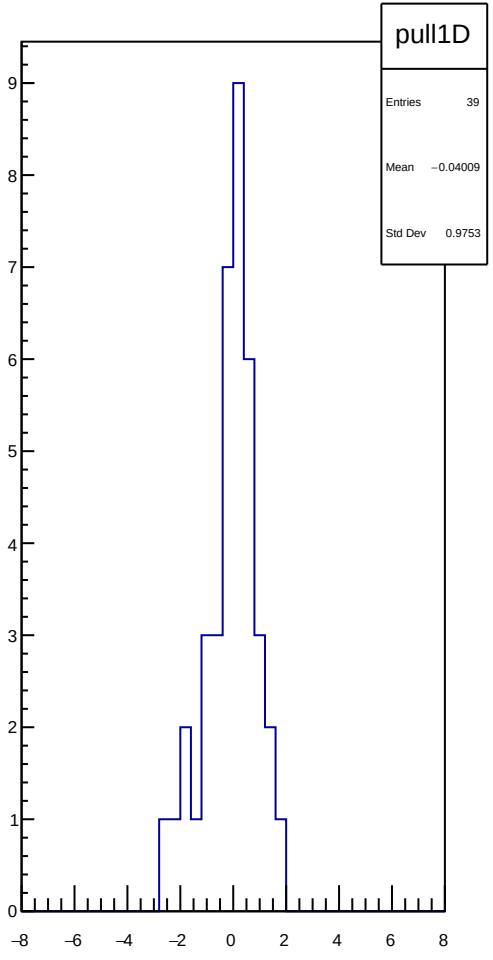

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.114e+05 / 38
p0 4.16e−12 ± 6.225e−15
35
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

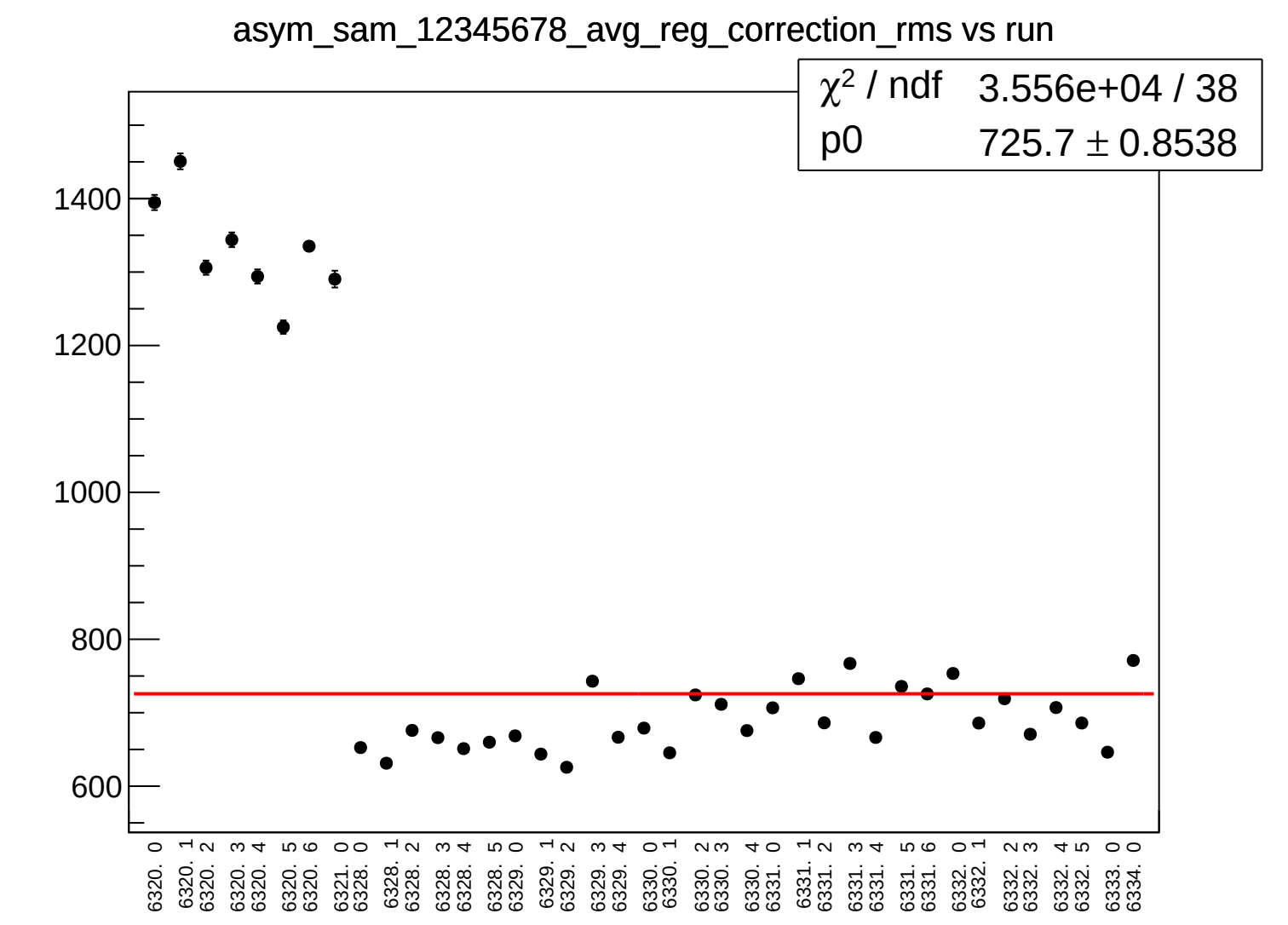

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 53.04 / 38
p0 −31.24 ± 113.8
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.38
Std Dev 0
3
2
1
0
−1
−2

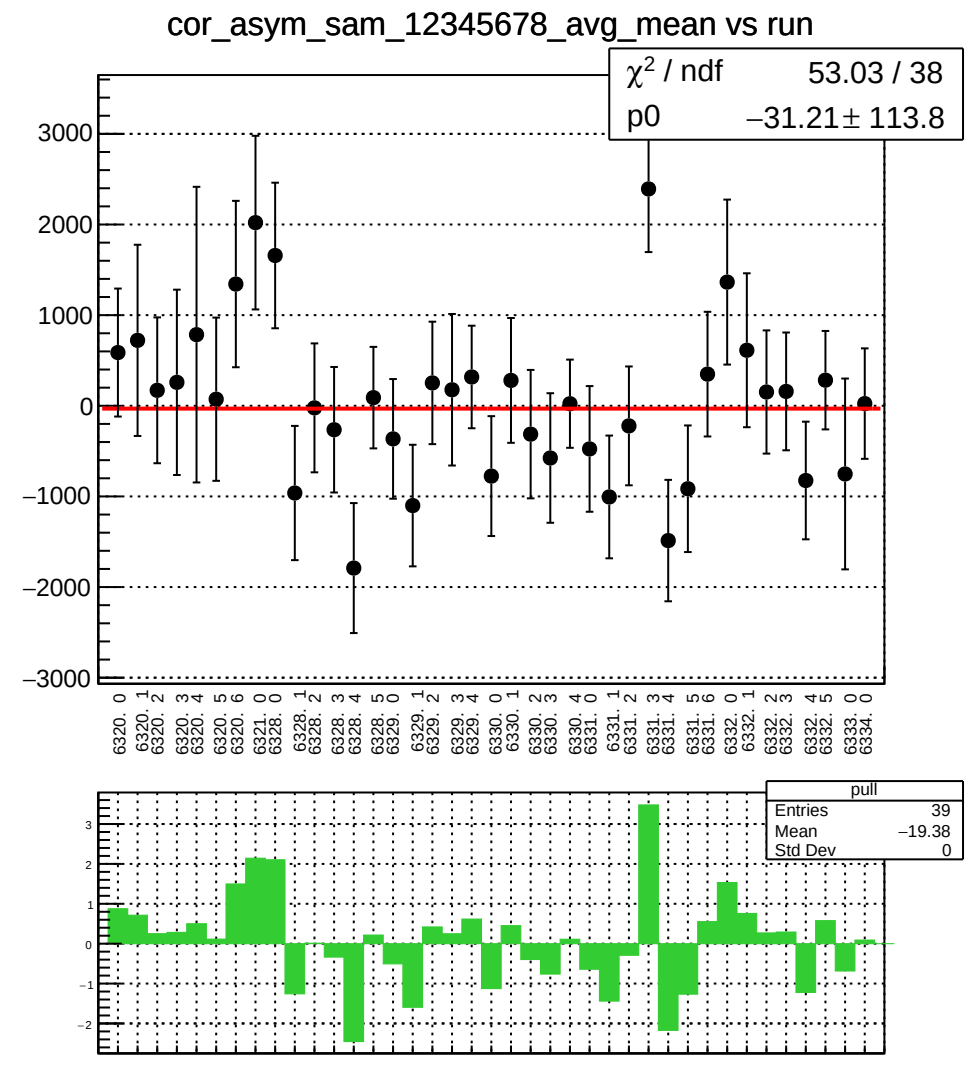

pull1D
Entries 39
Mean 0.05041
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

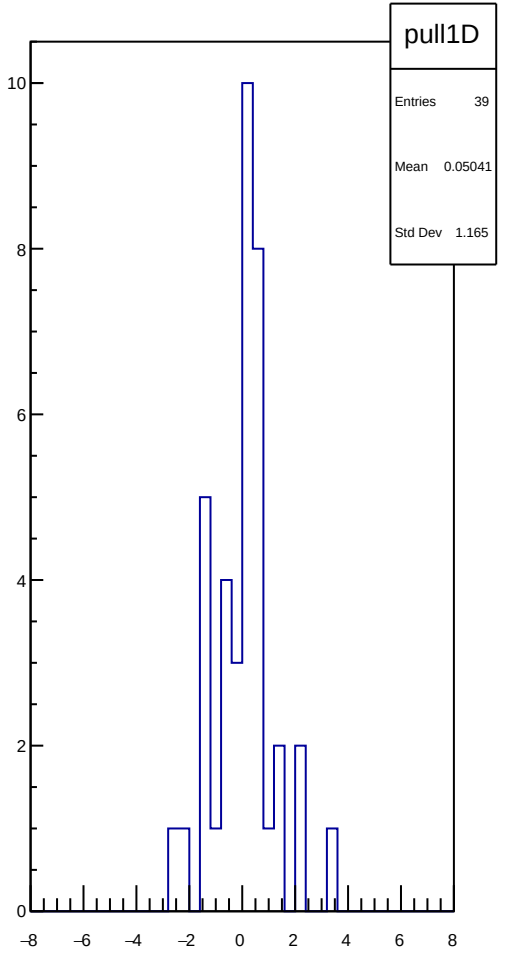

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.127e+04 / 38
p0 69.07 ± 0.08046
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

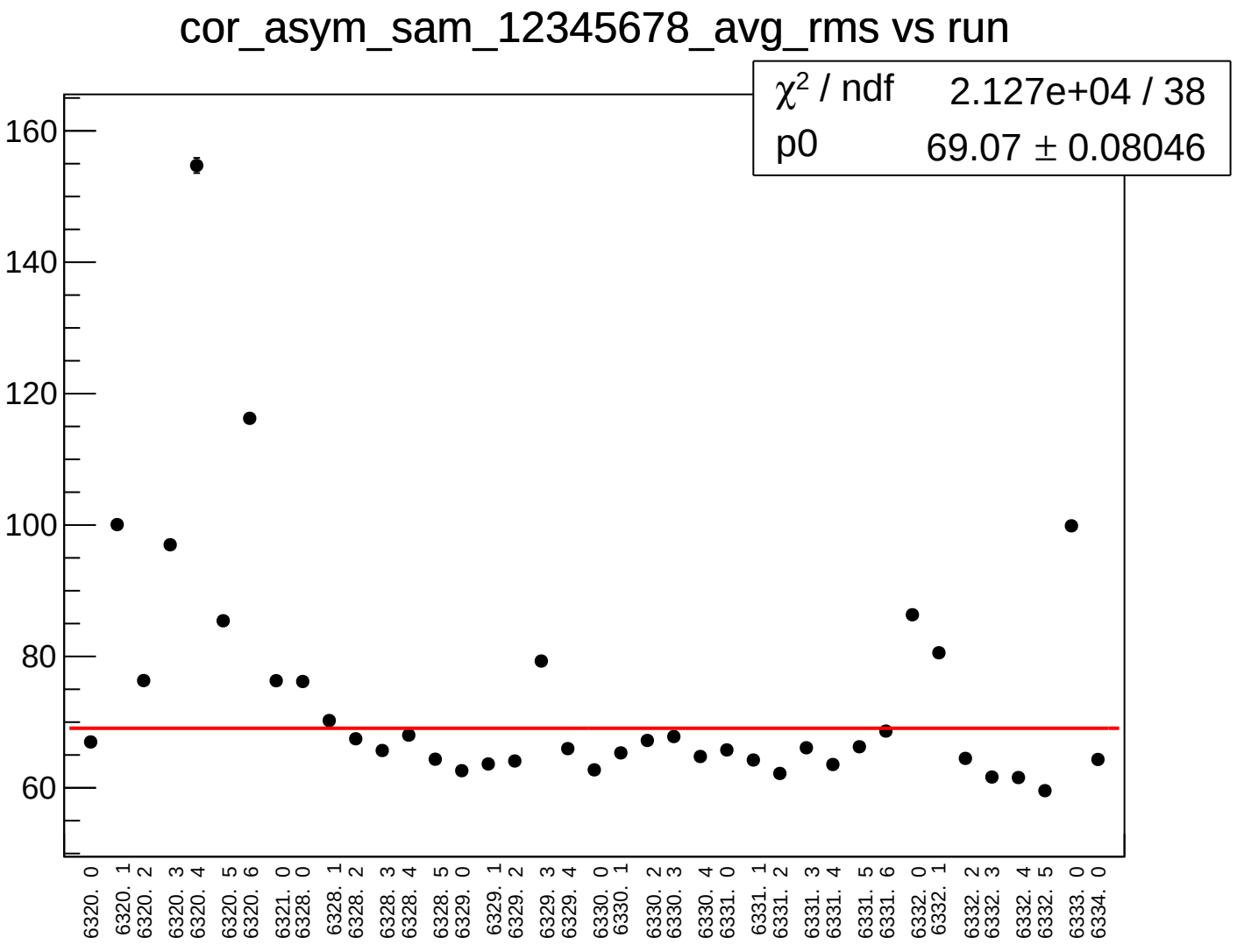

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 37.16 / 38
p0 −1168 ± 1207
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −48.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

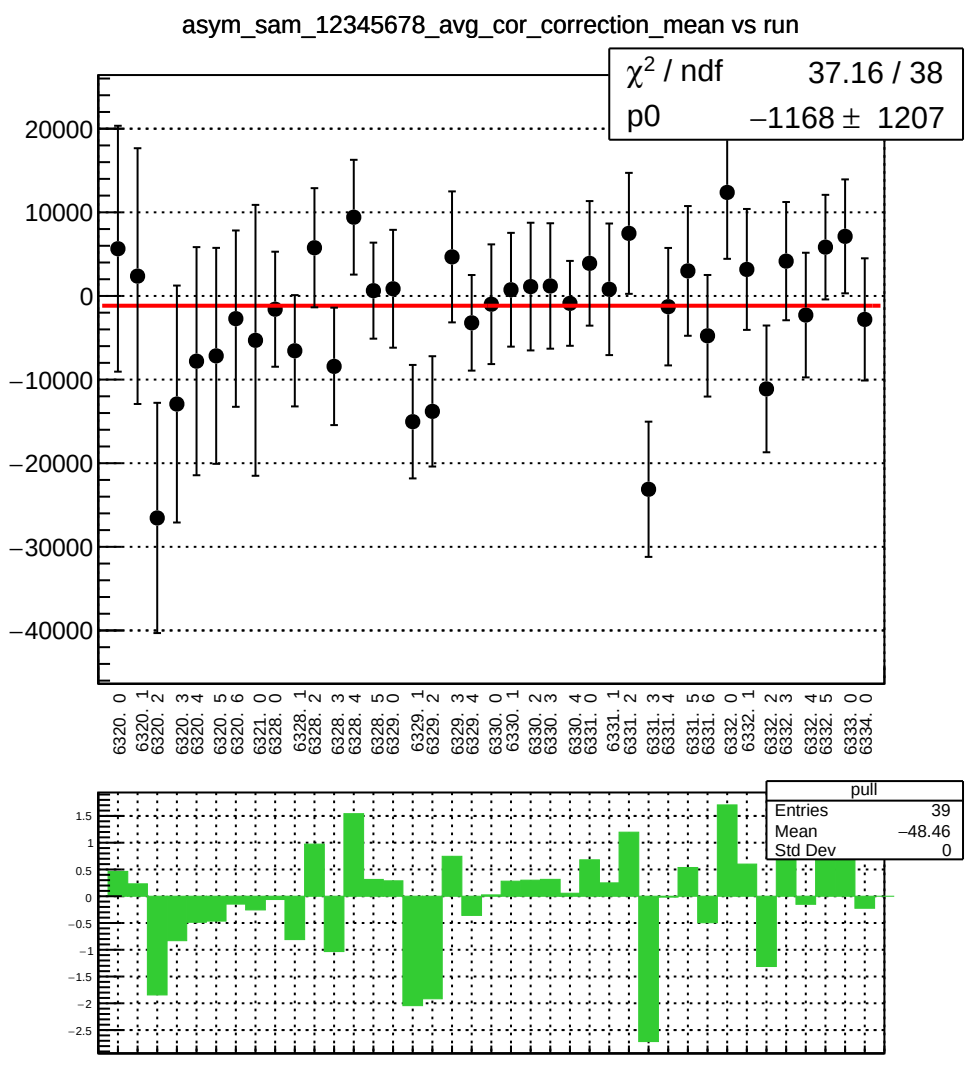

pull1D
Entries 39
Mean −0.04009
Std Dev 0.9753
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

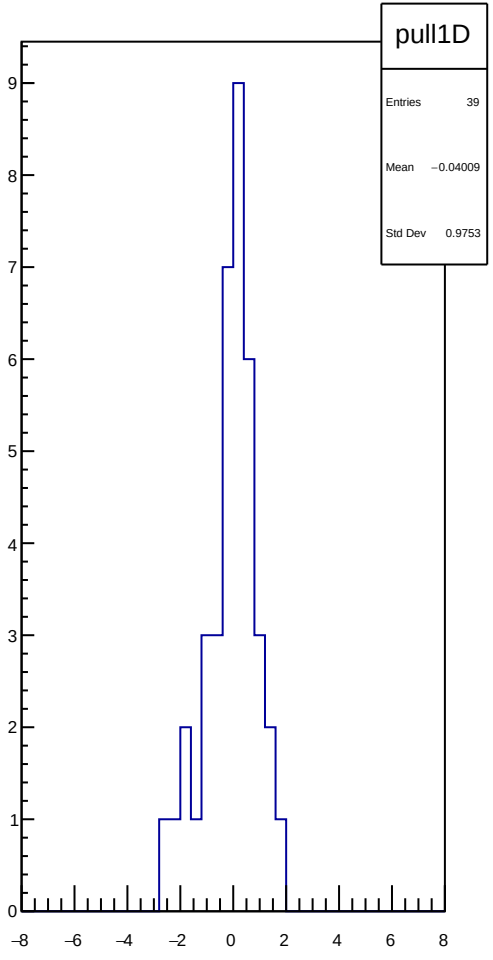

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3.556e+04 / 38
p0 725.7 ± 0.8538
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

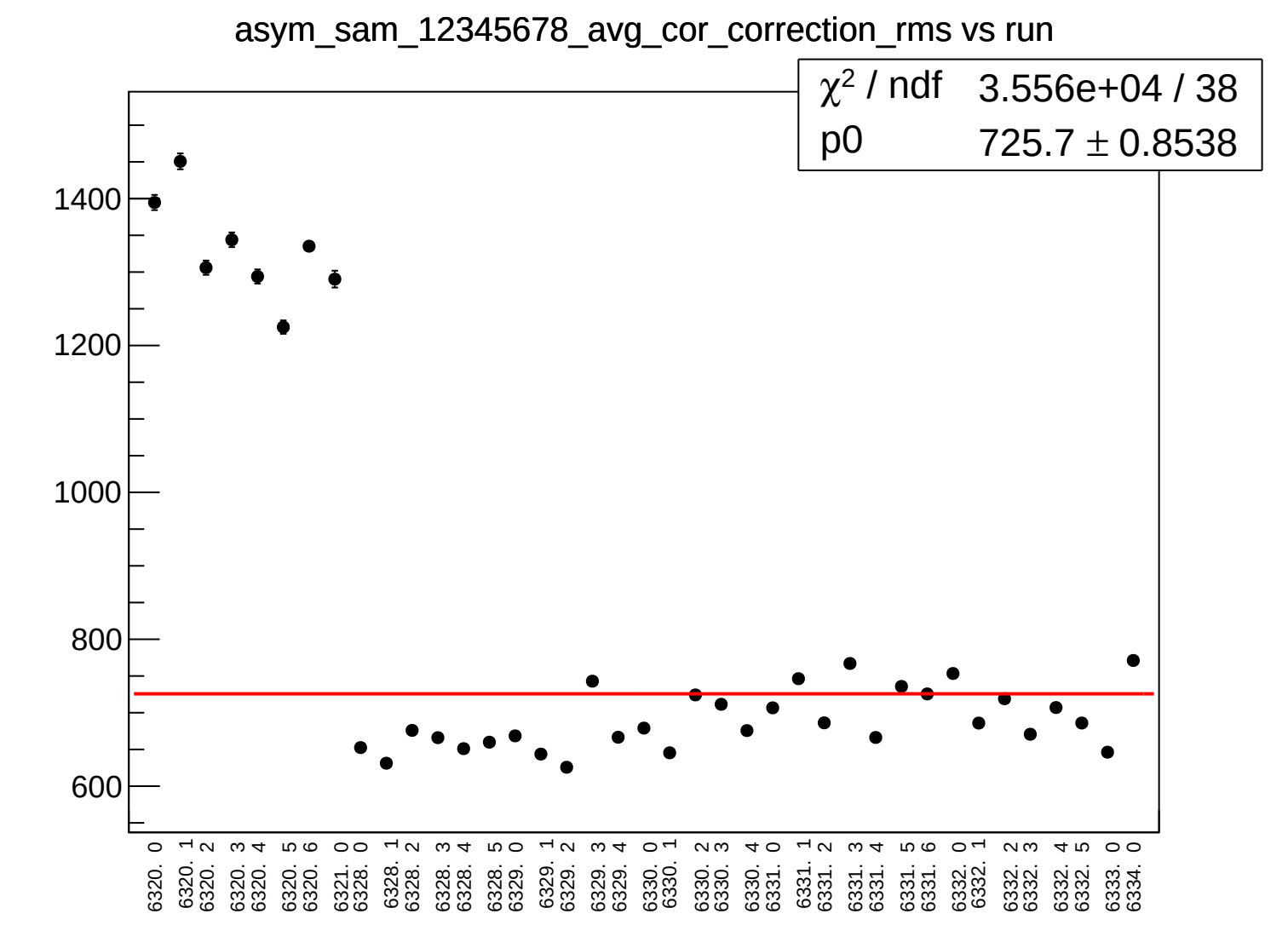

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 53.03 / 38
p0 −31.21 ± 113.8
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.38
Std Dev 0
3
2
1
0
−1
−2

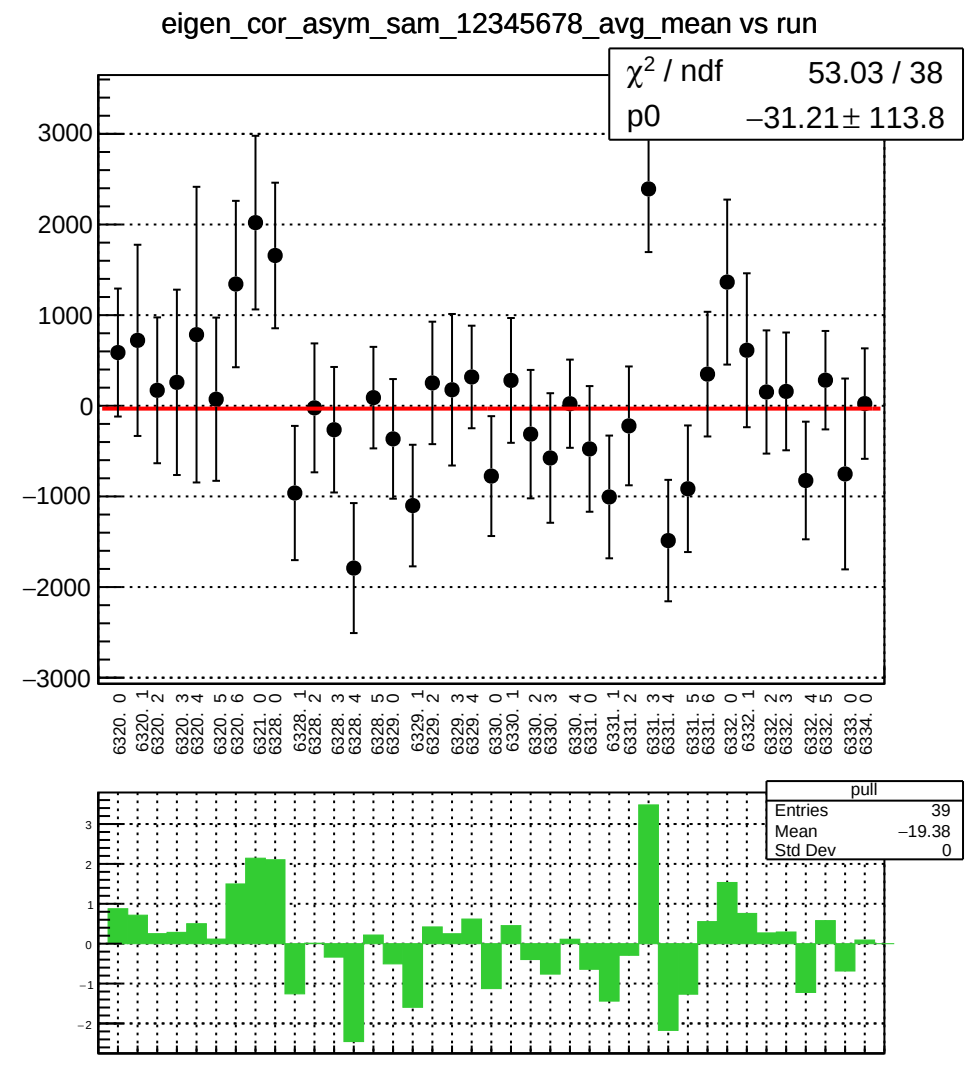

pull1D
Entries 39
Mean 0.05041
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

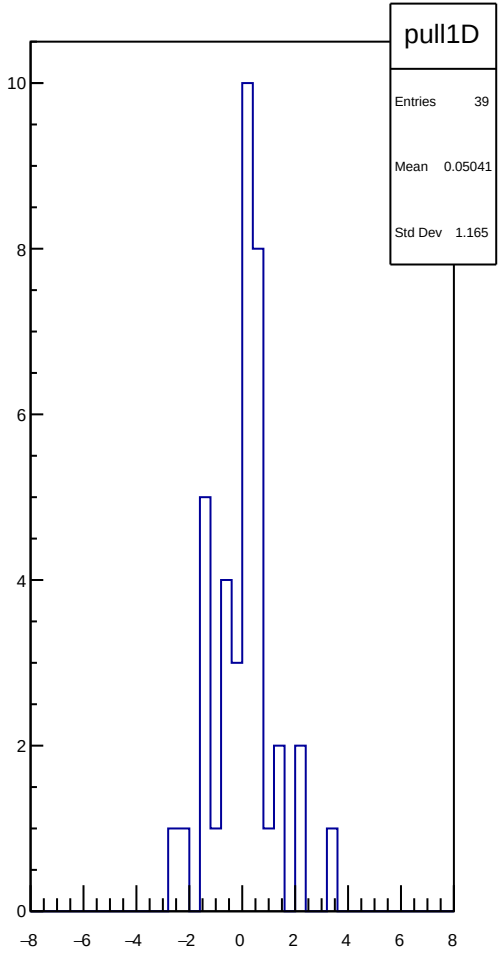

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.127e+04 / 38
p0 69.07 ± 0.08046
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

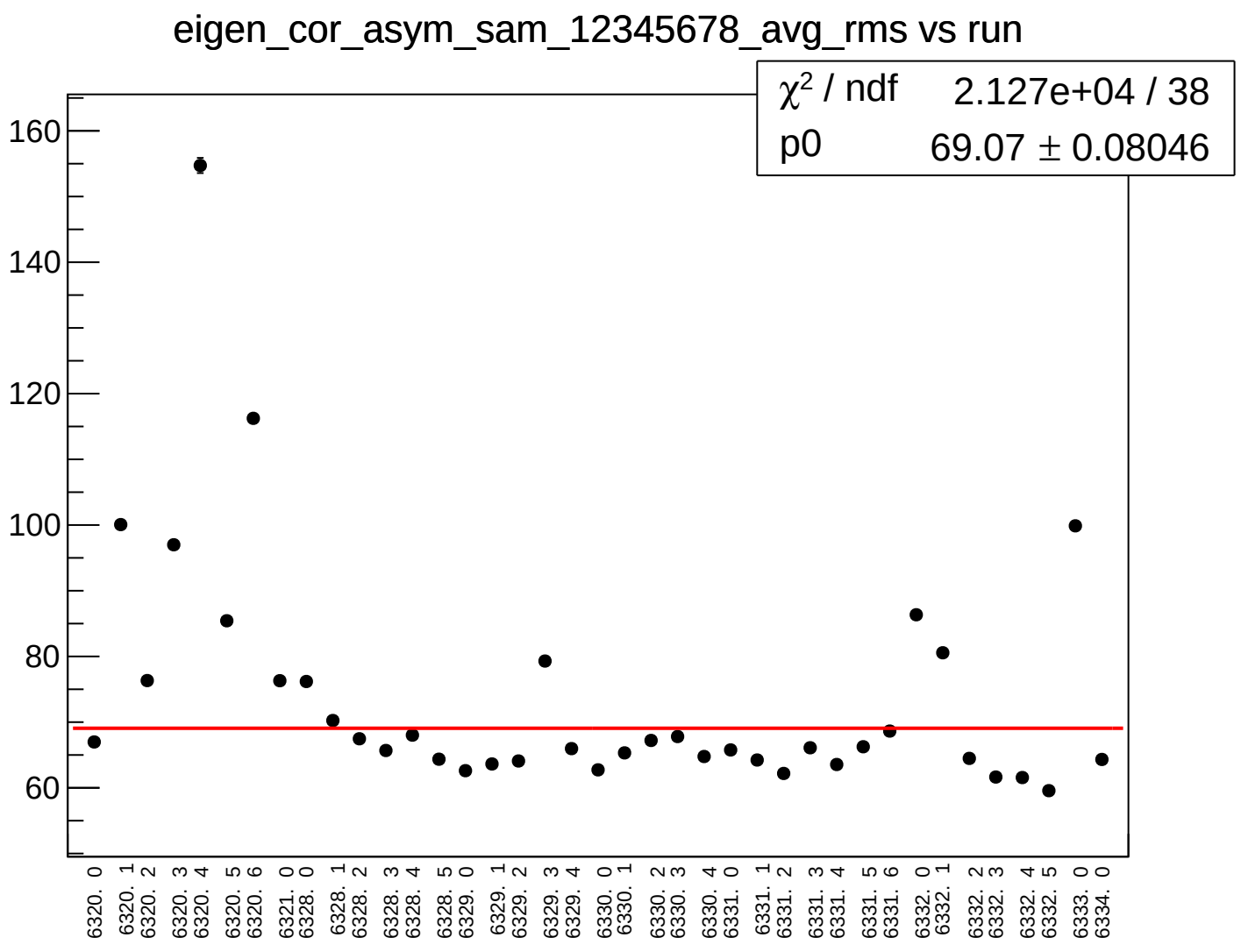

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 37.16 / 38
p0 −1168 ± 1207
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −48.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 39
Mean −0.04009
Std Dev 0.9753
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3.556e+04 / 38
p0 725.7 ± 0.8538
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 53.03 / 38
p0 −31.21± 113.8
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.38
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.05041
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.127e+04 / 38
p0 69.07 ± 0.08046
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
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6330. 1
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6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
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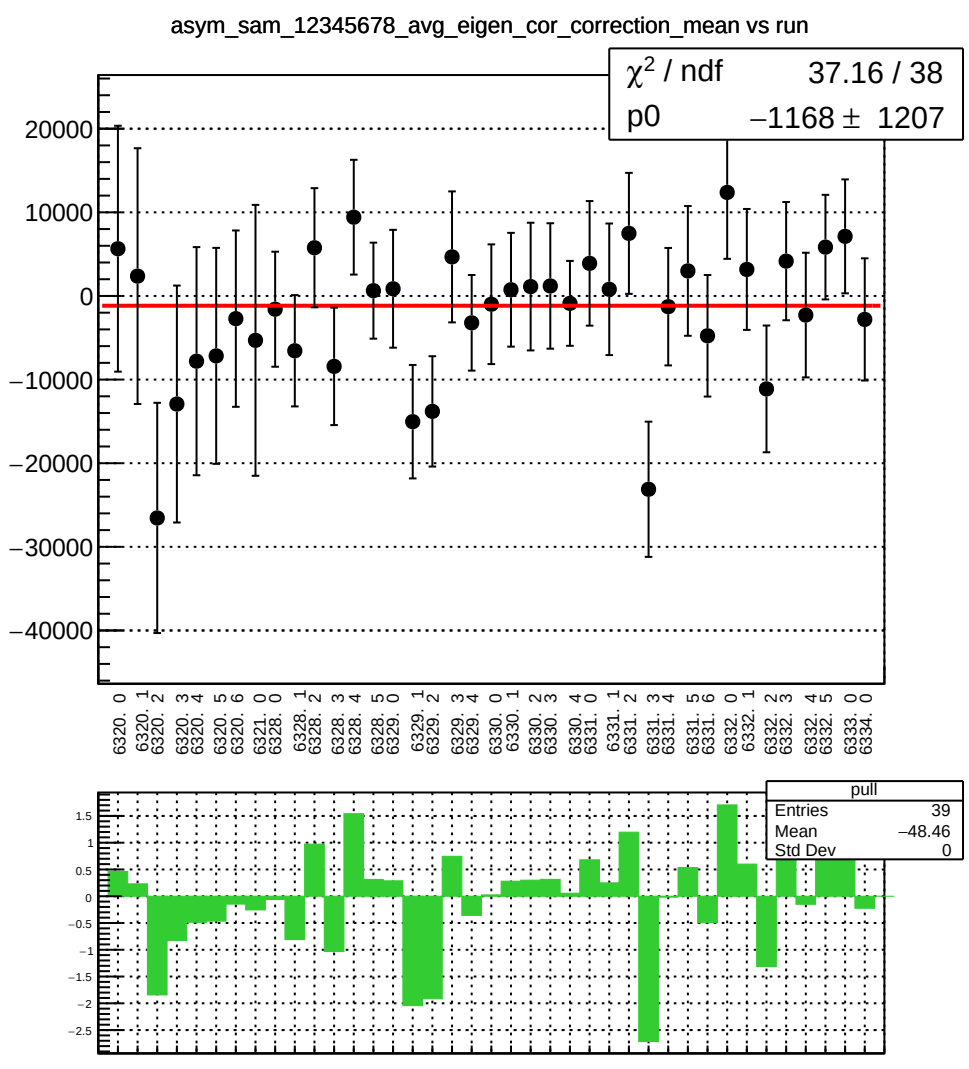
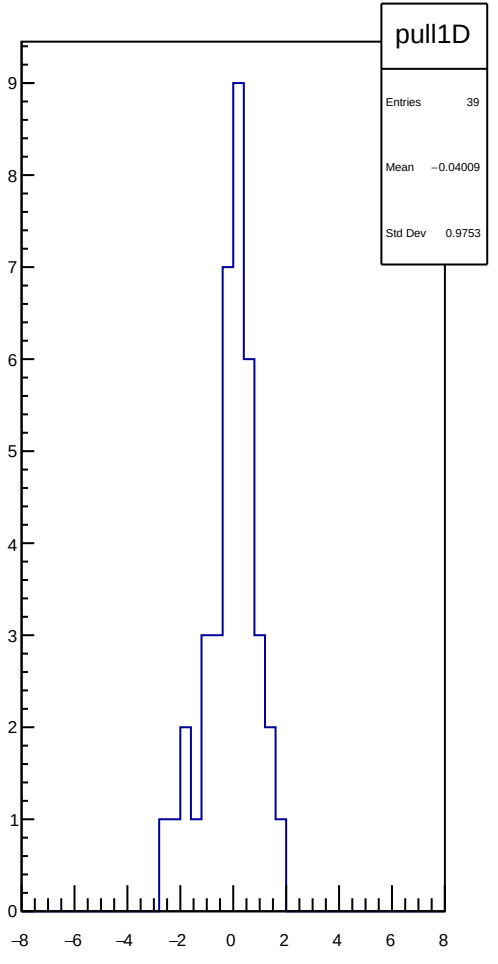
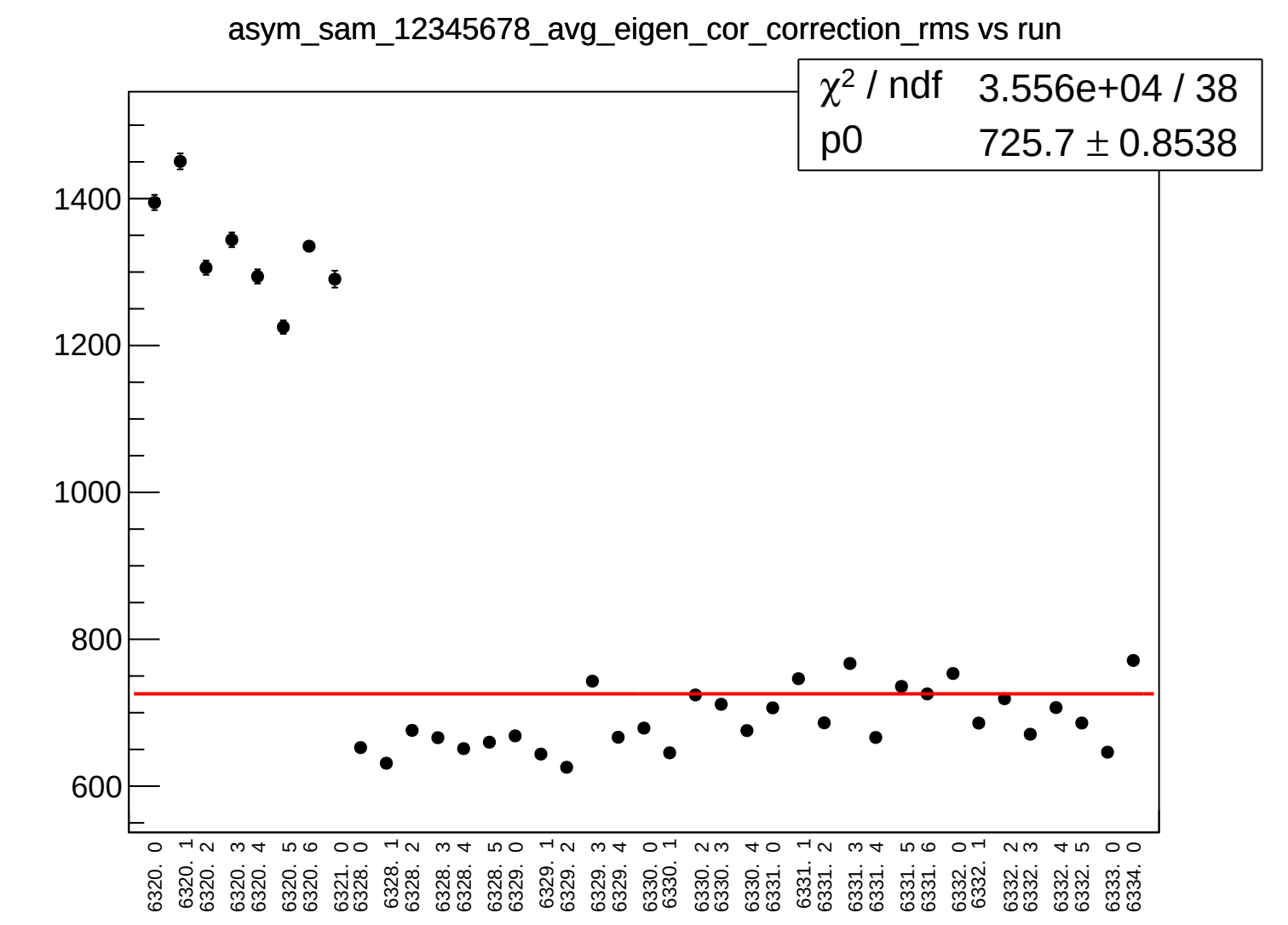
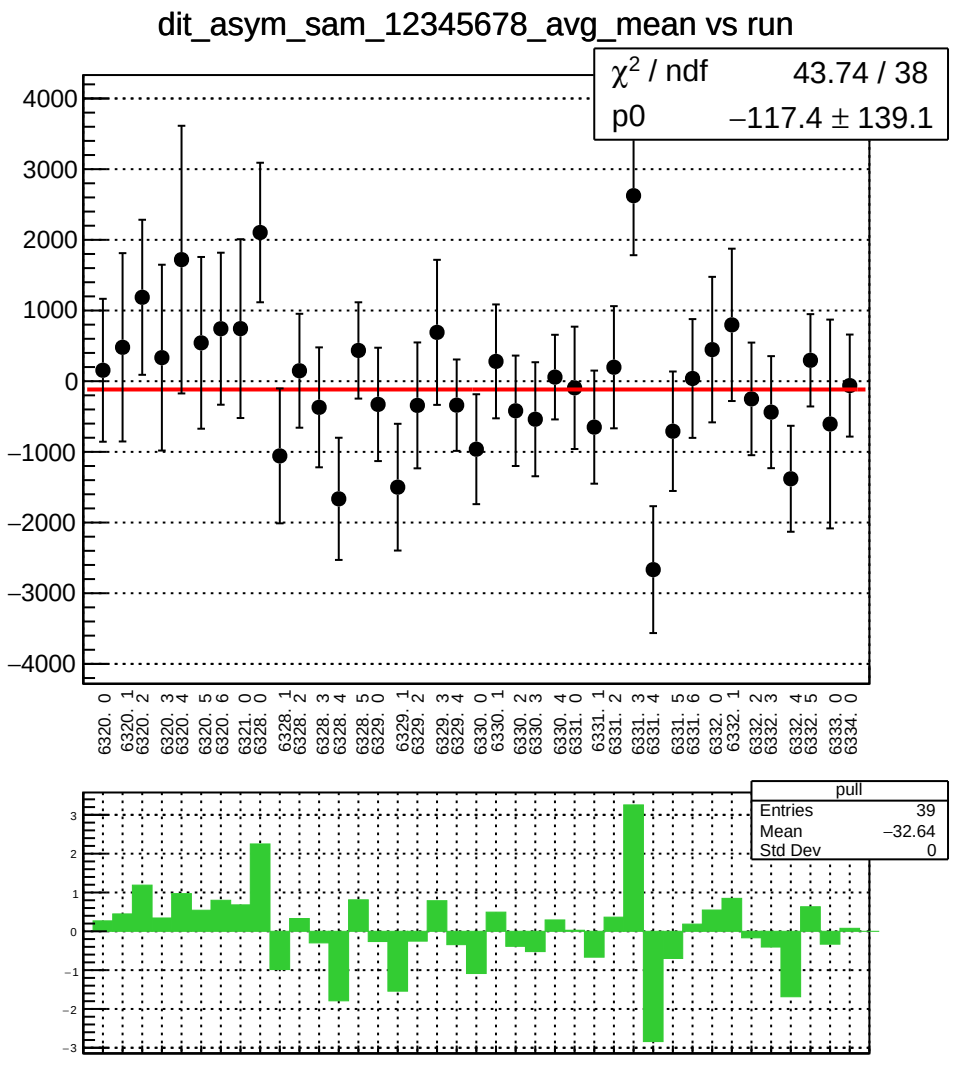
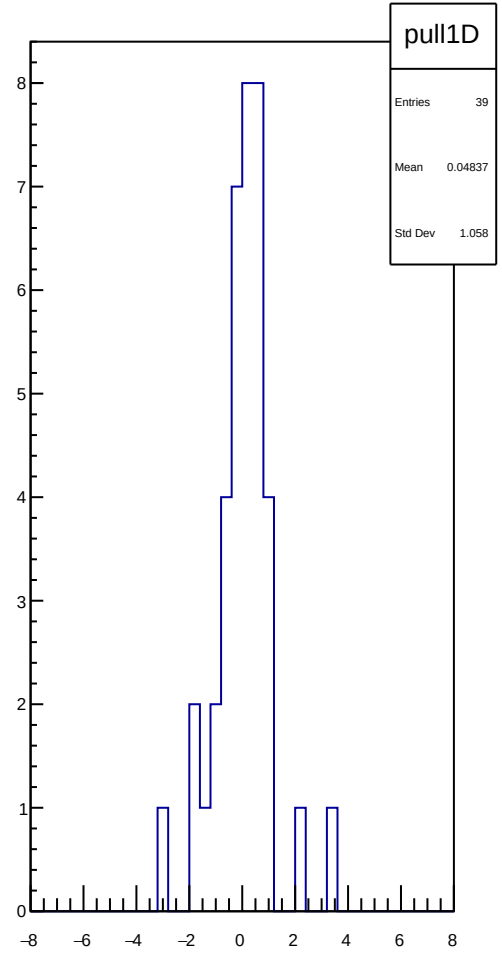
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

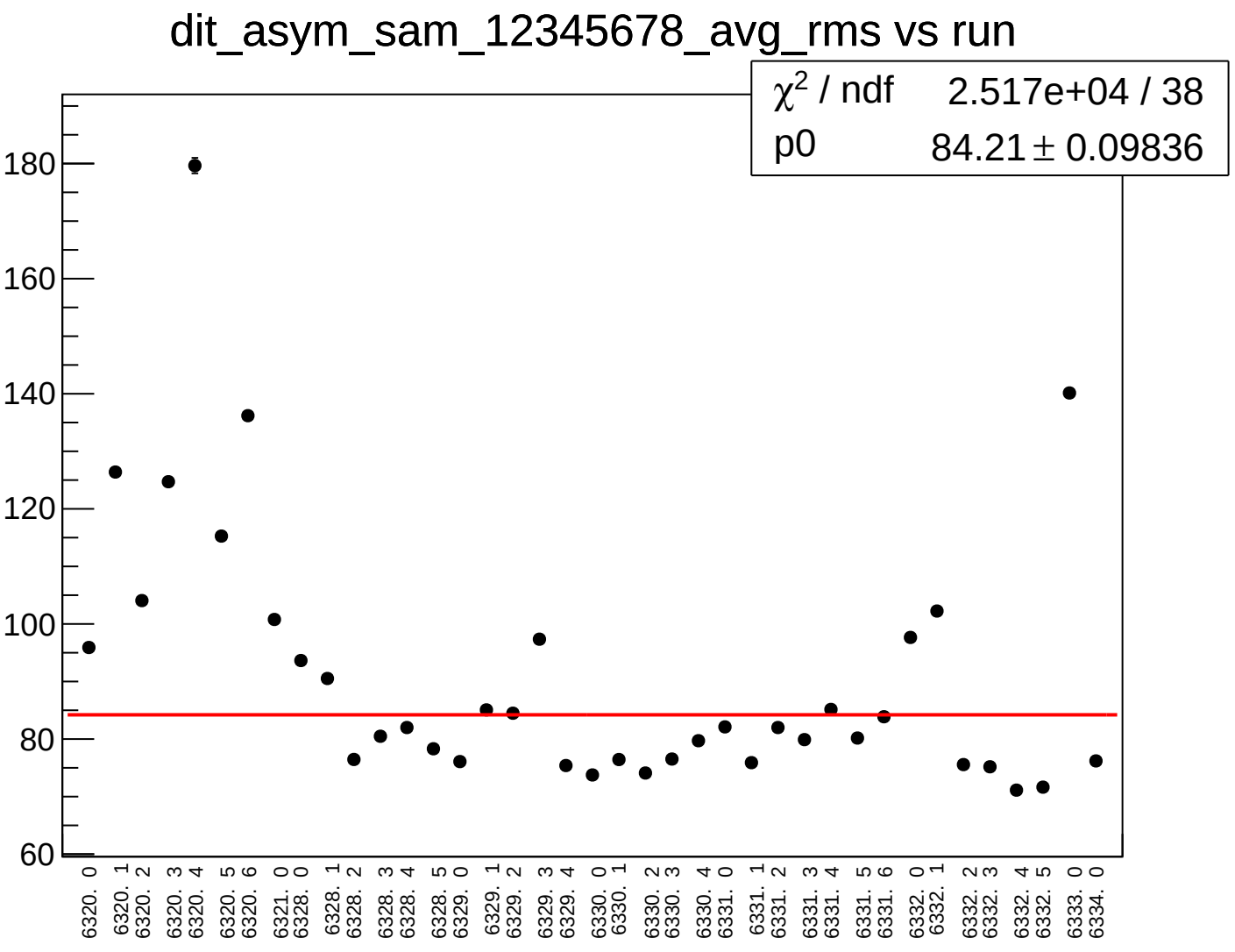

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.16 / 38
p0 −1168 ± 1207
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −48.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

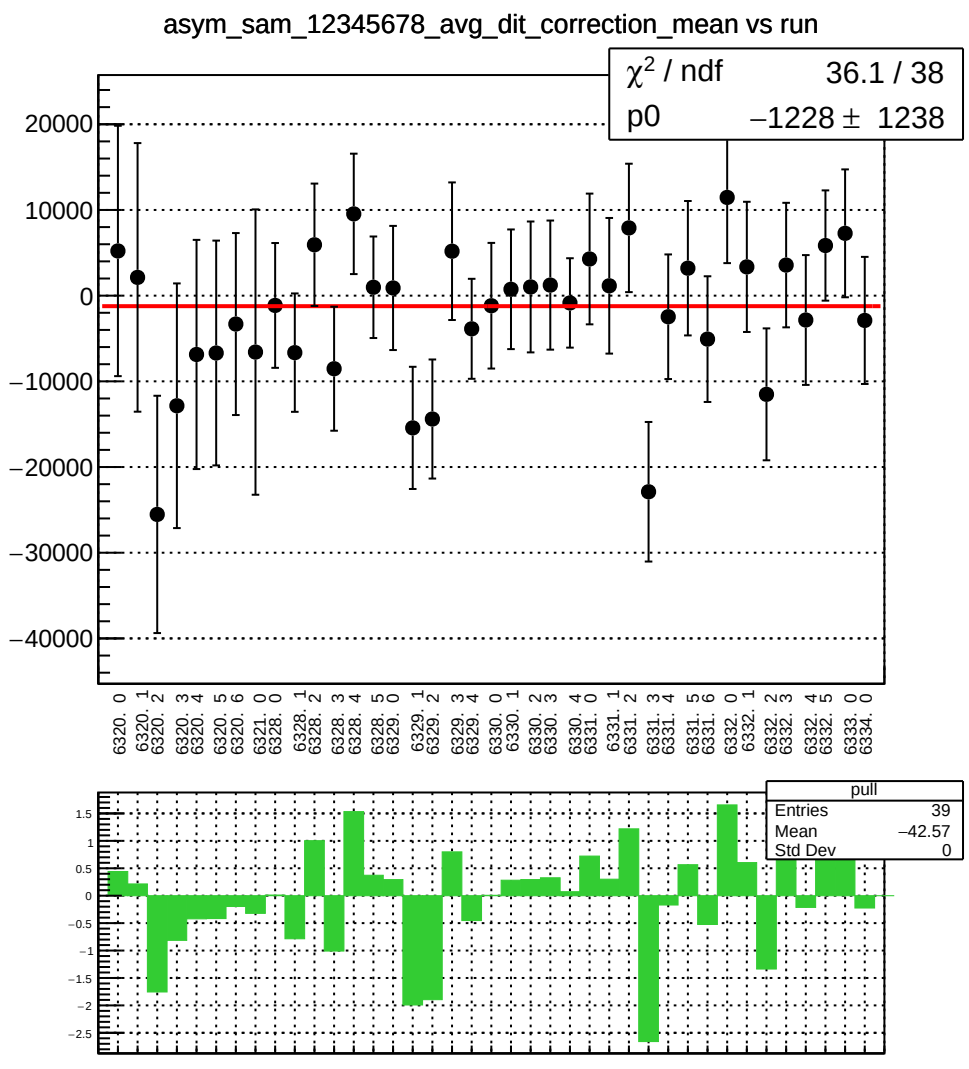

pull1D
Entries 39
Mean −0.04009
Std Dev 0.9753
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

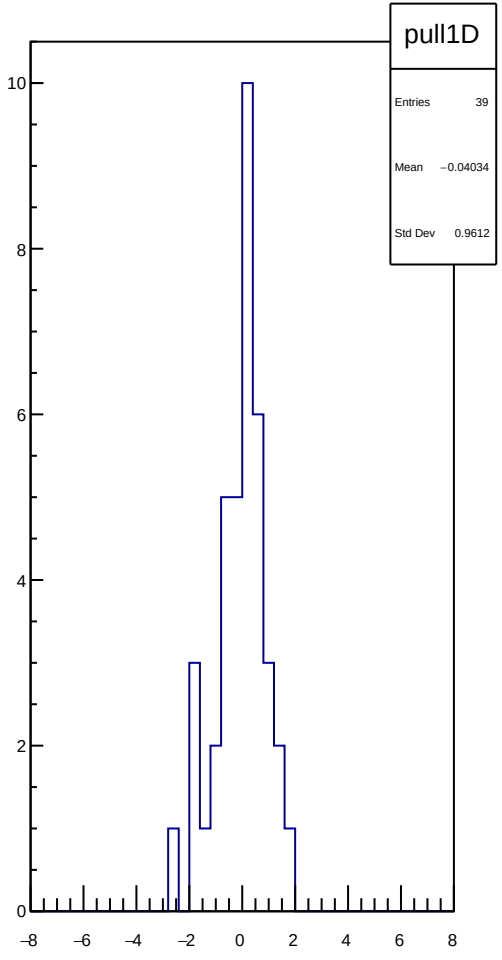

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.556e+04 / 38
p0 725.7 ± 0.8538
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

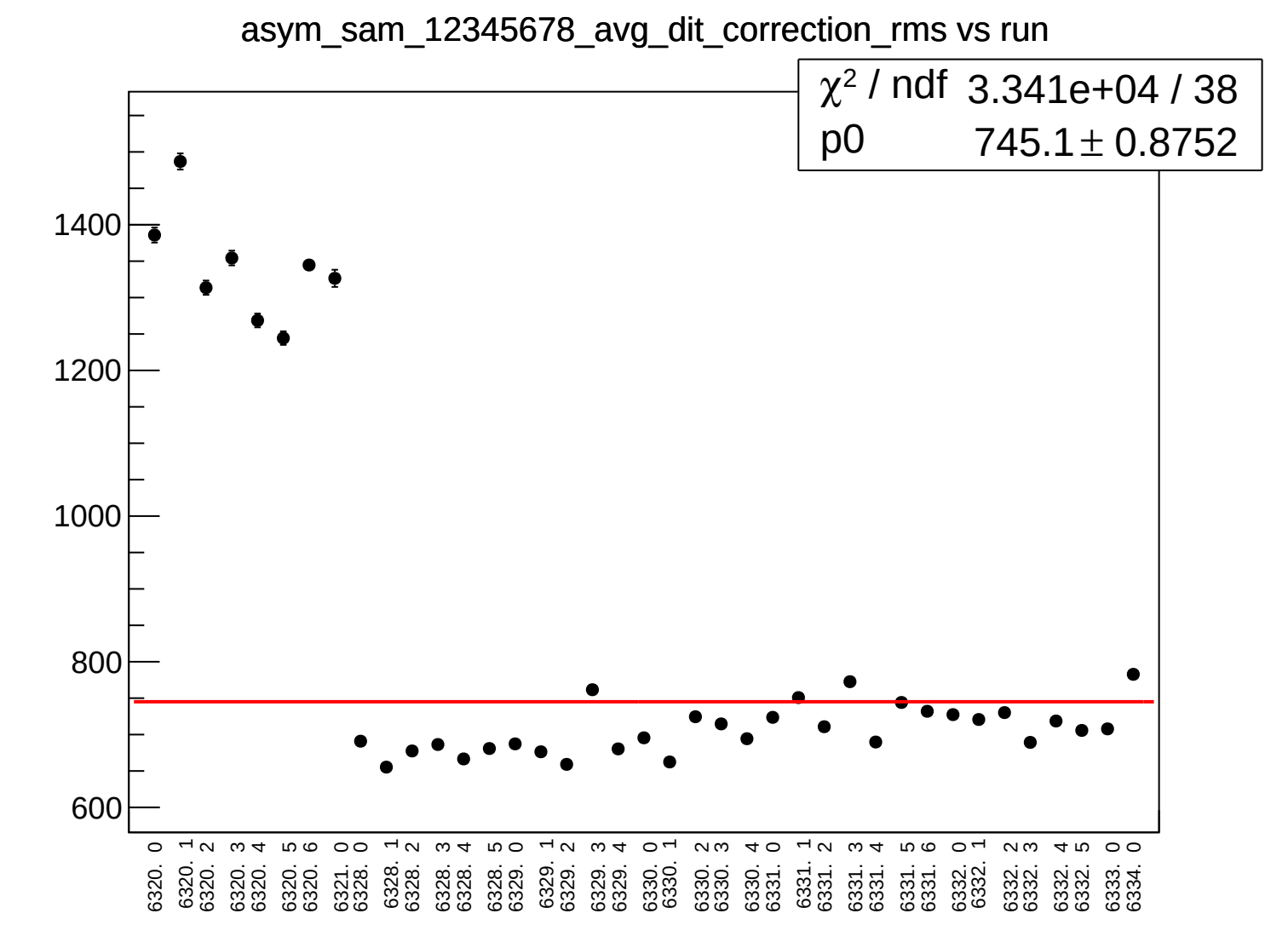

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 43.74 / 38
p0 −117.4 ± 139.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.64
Std Dev 0
3
2
1
0
−1
−2
−3

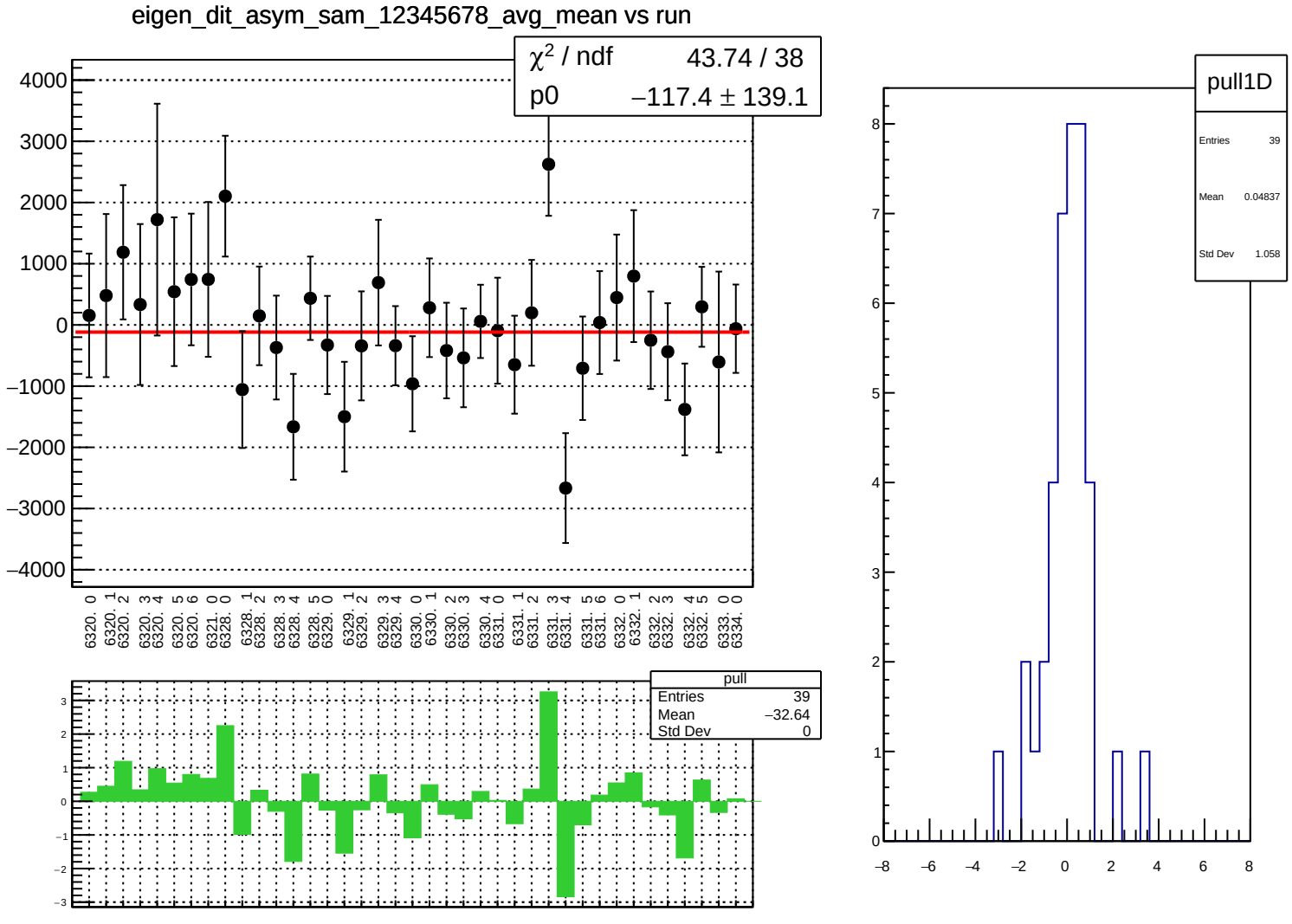

pull1D
Entries 39
Mean 0.04837
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

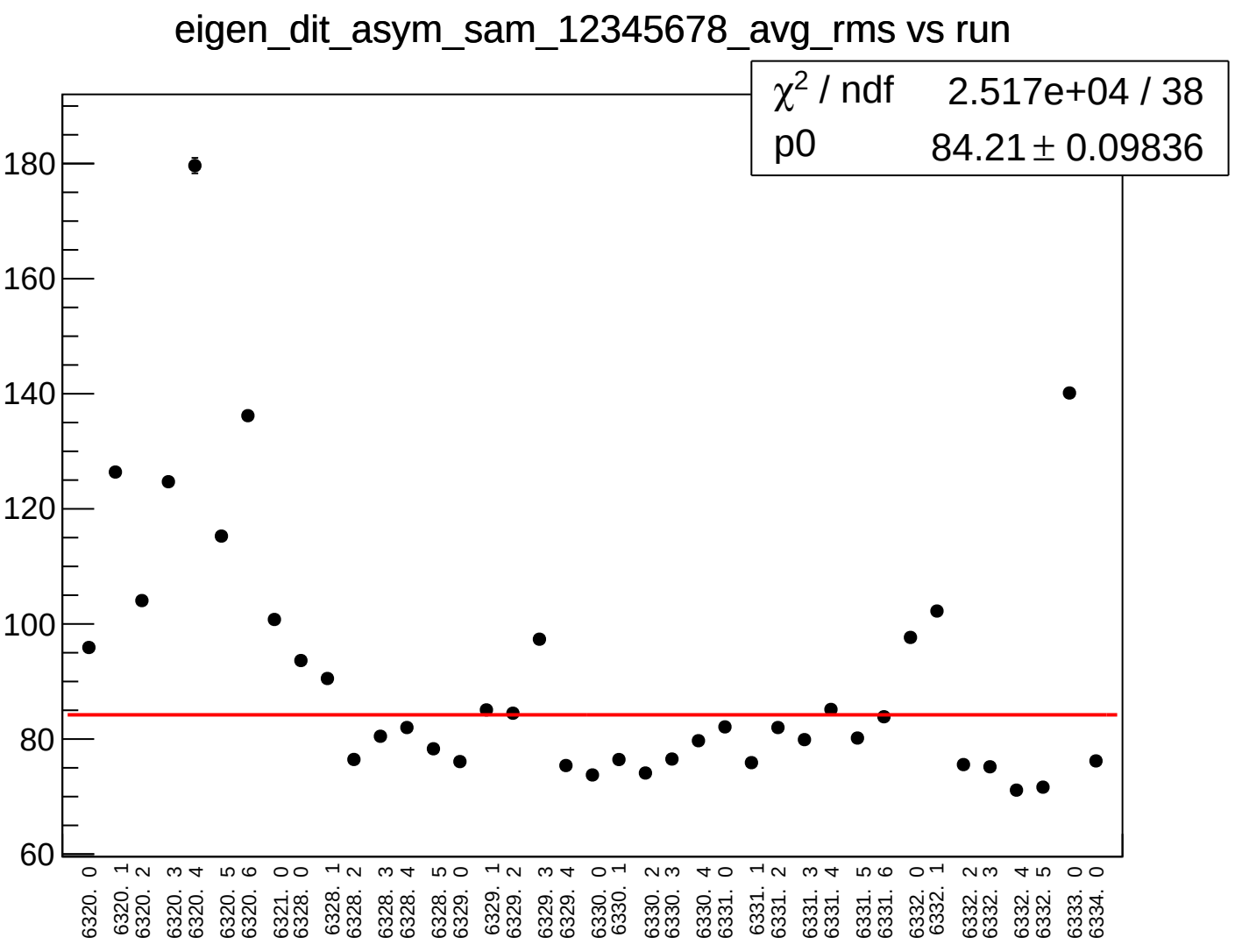

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.517e+04 / 38
p0 84.21 ± 0.09836
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

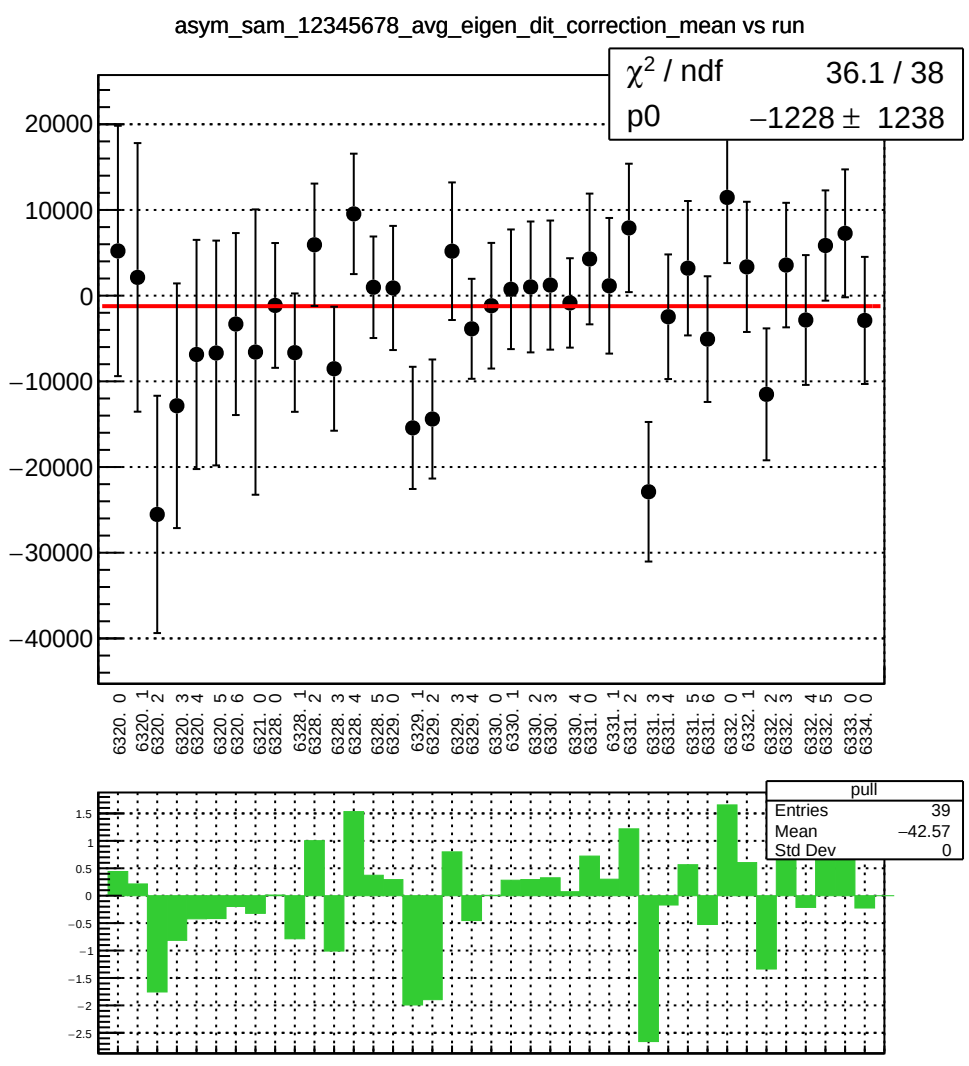

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 36.1 / 38
p0 −1228 ± 1238
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

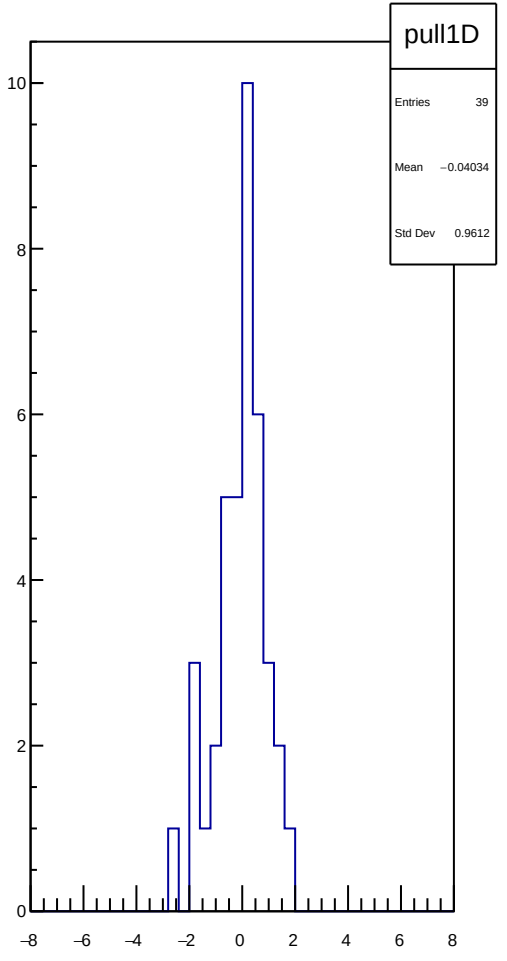

pull1D
Entries 39
Mean −0.04034
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

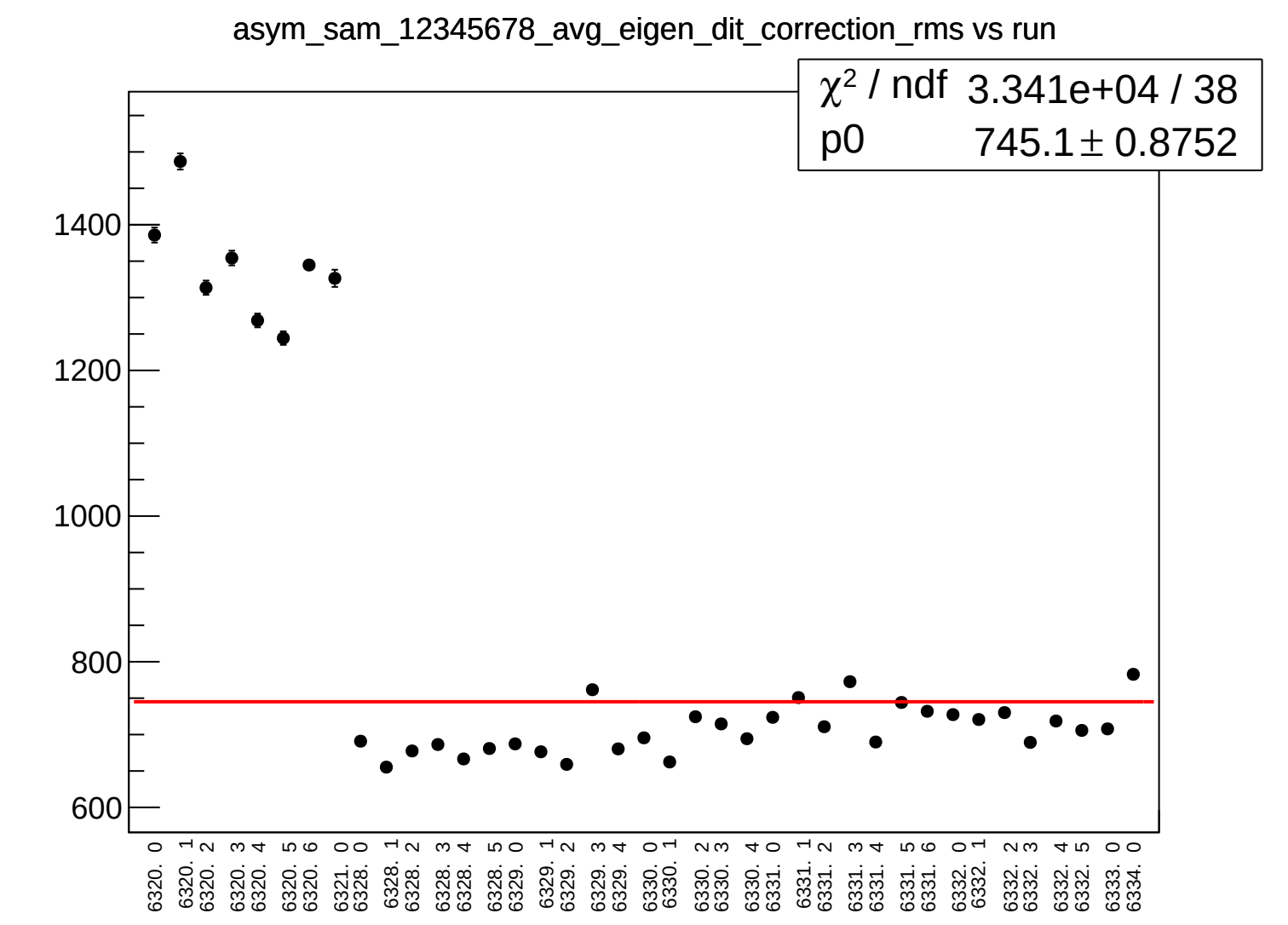

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 38
p0 745.1 ± 0.8752
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

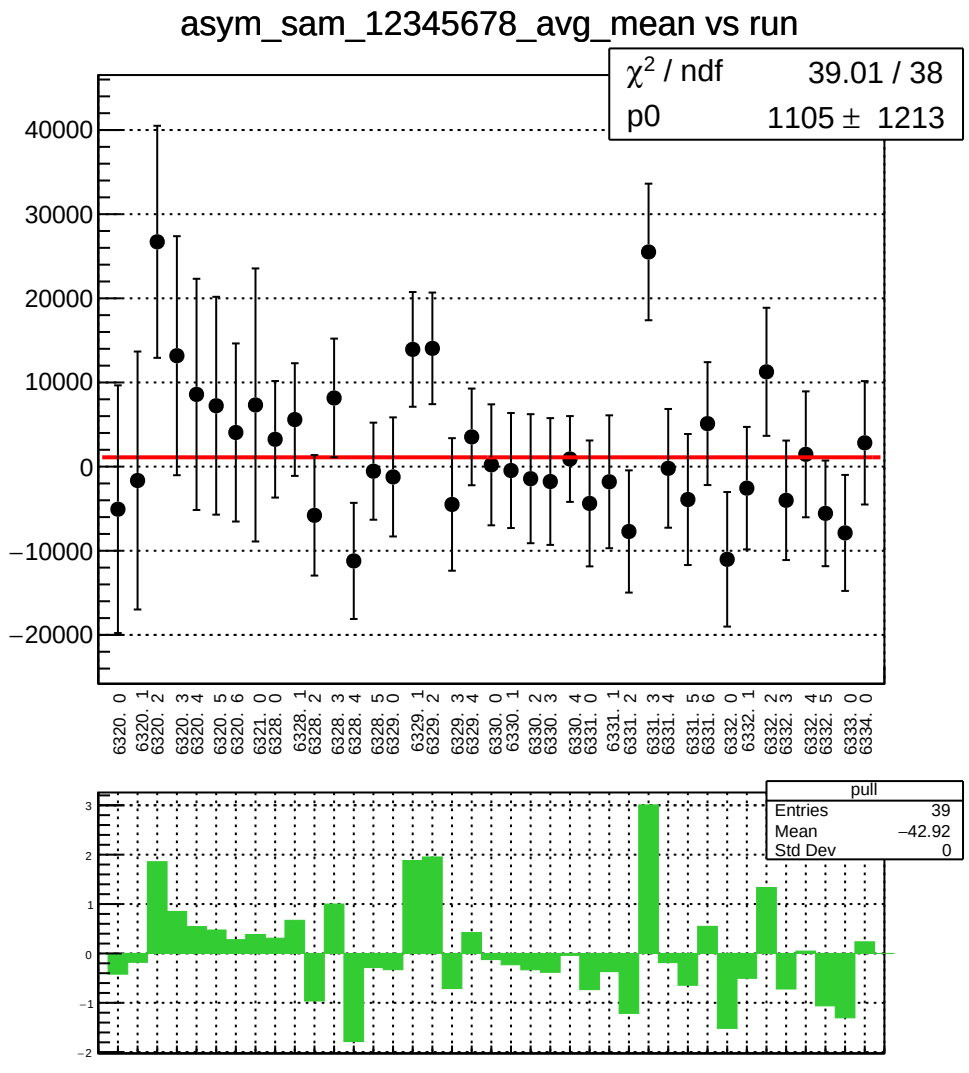

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 43.74 / 38
p0 −117.4 ± 139.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.64
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.04837
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

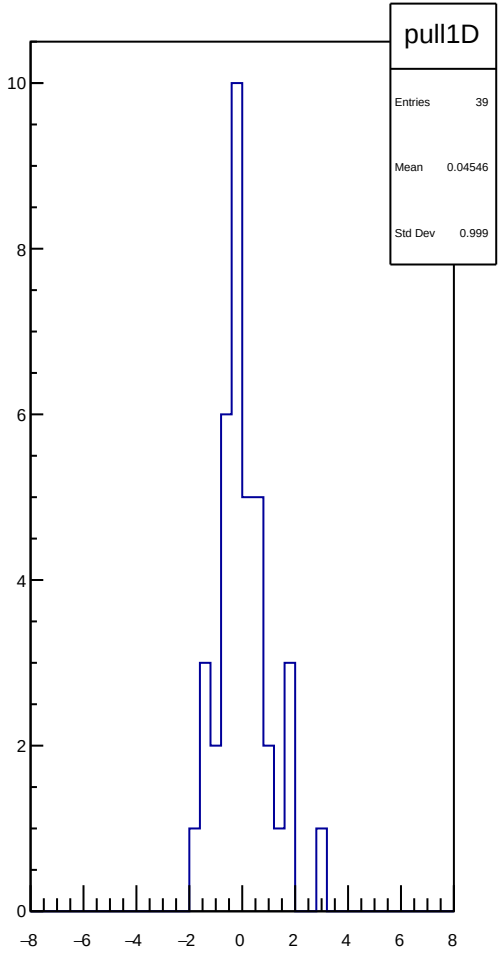

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.517e+04 / 38
p0 84.21 ± 0.09836
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

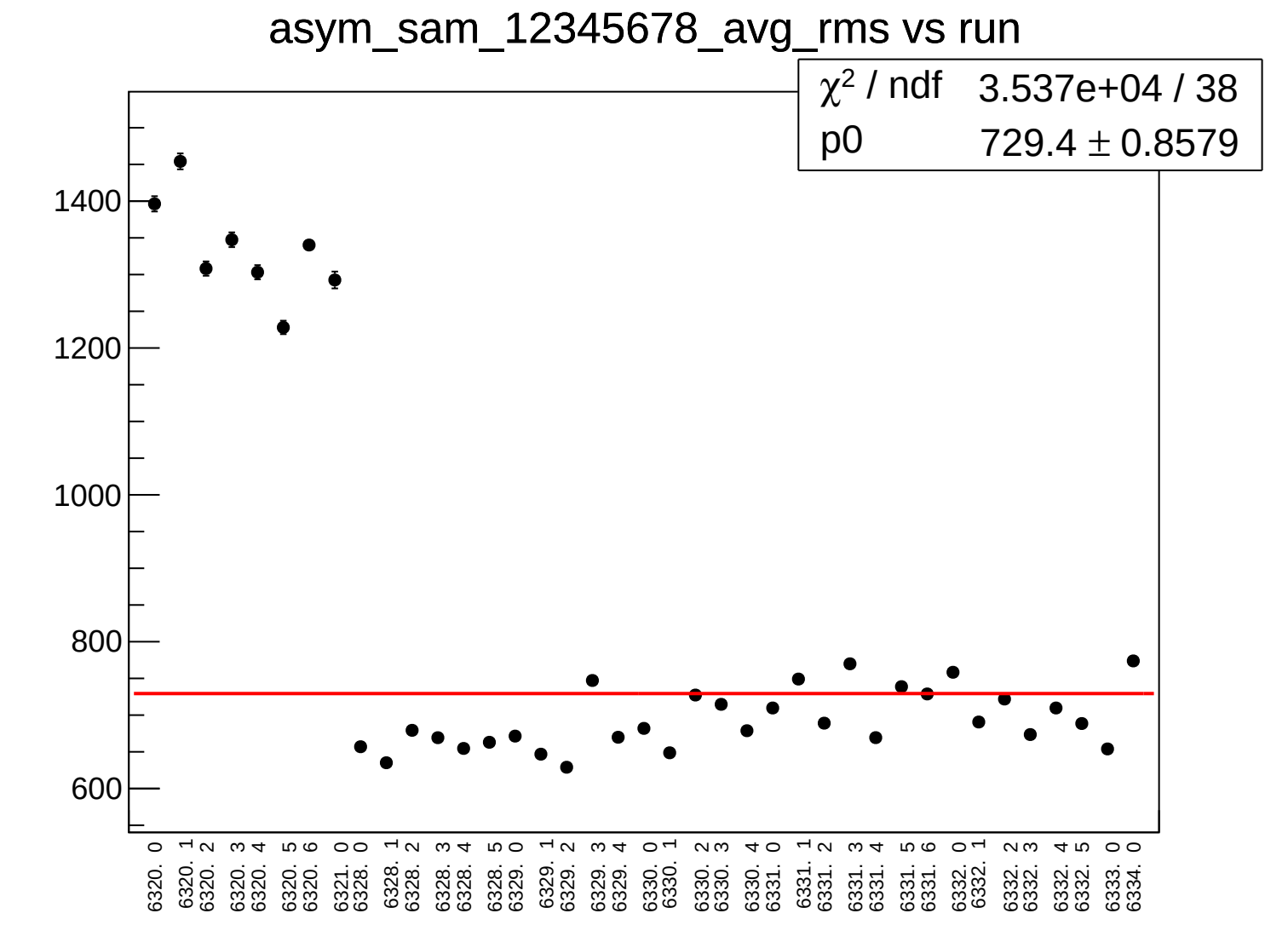

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.1 / 38
p0 −1228 ± 1238
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

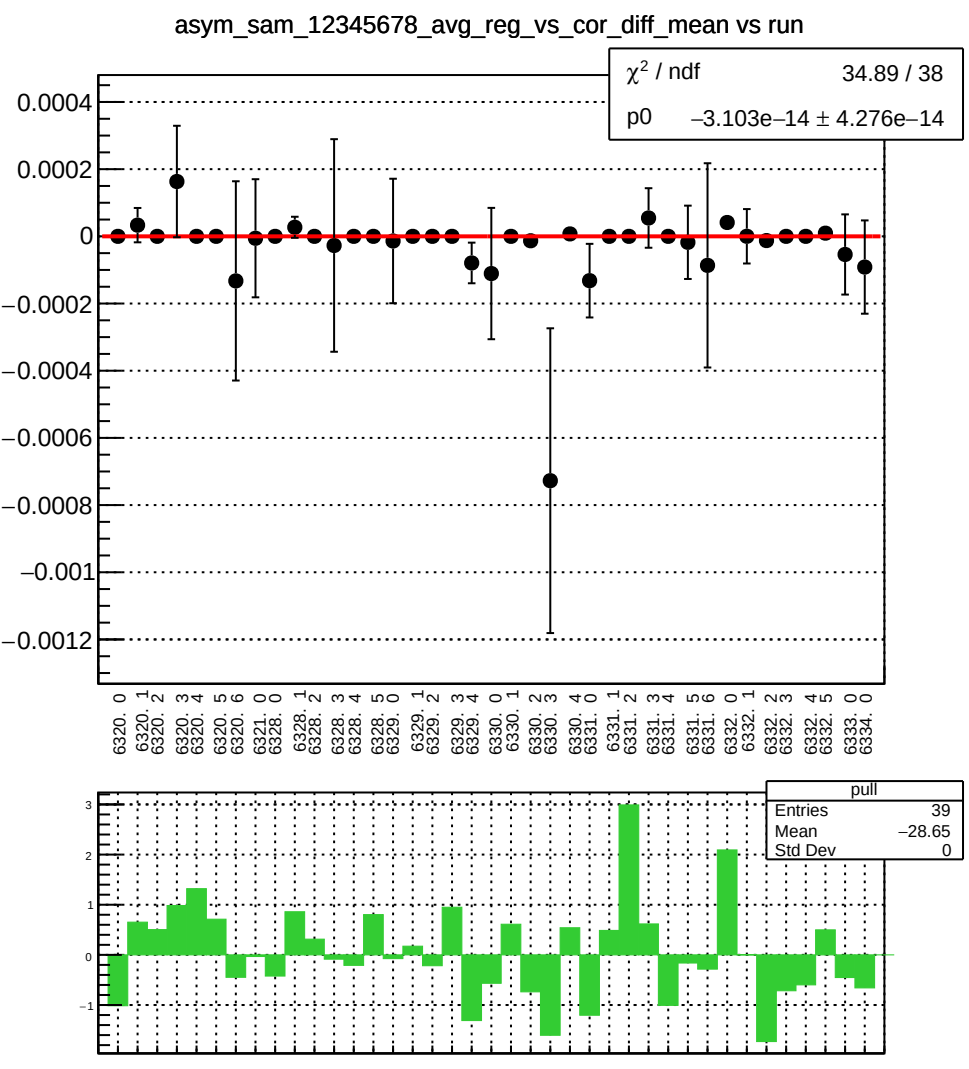

pull1D
Entries 39
Mean −0.04034
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

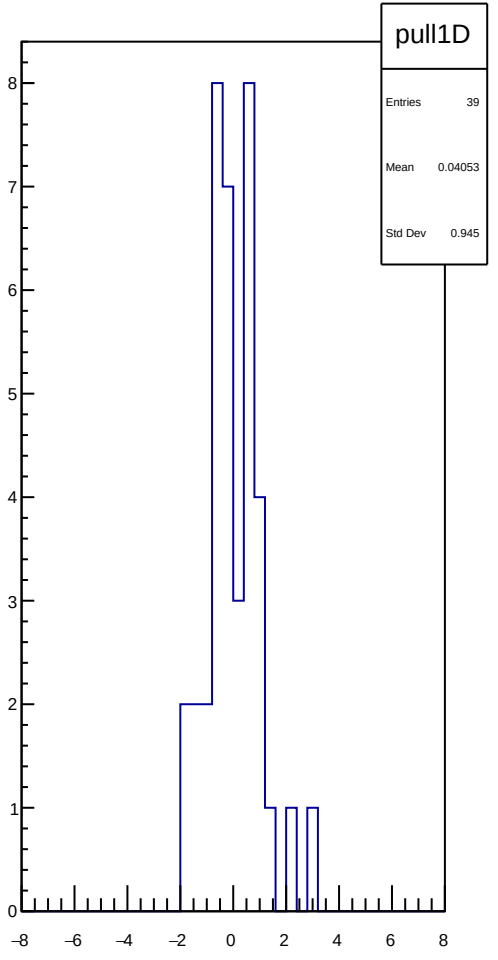

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 38
p0 745.1 ± 0.8752
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

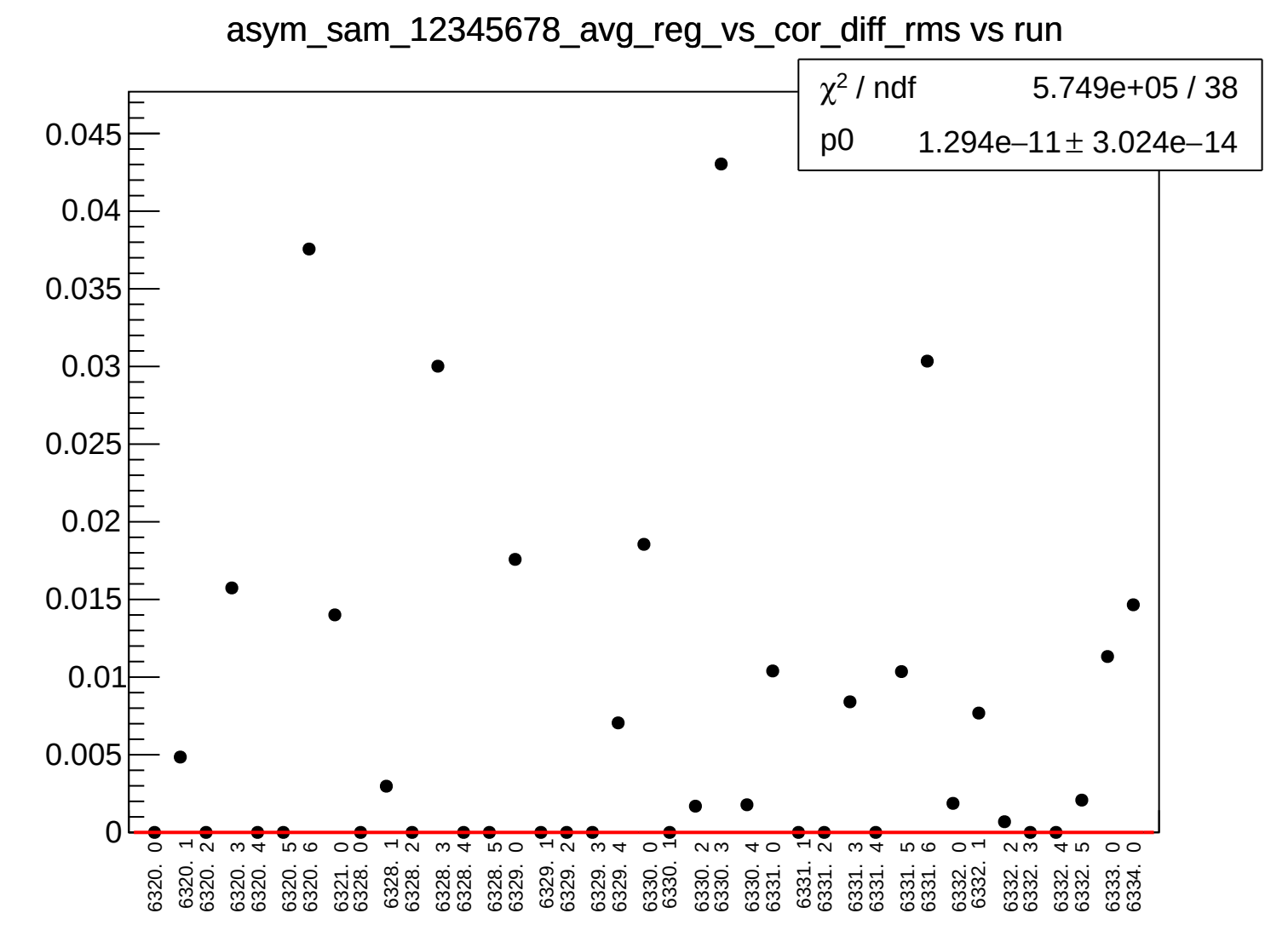

asym_sam_12345678_avg_mean vs run
χ² / ndf 39.01 / 38
p0 1105 ± 1213
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −42.92
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.04546
Std Dev 0.999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

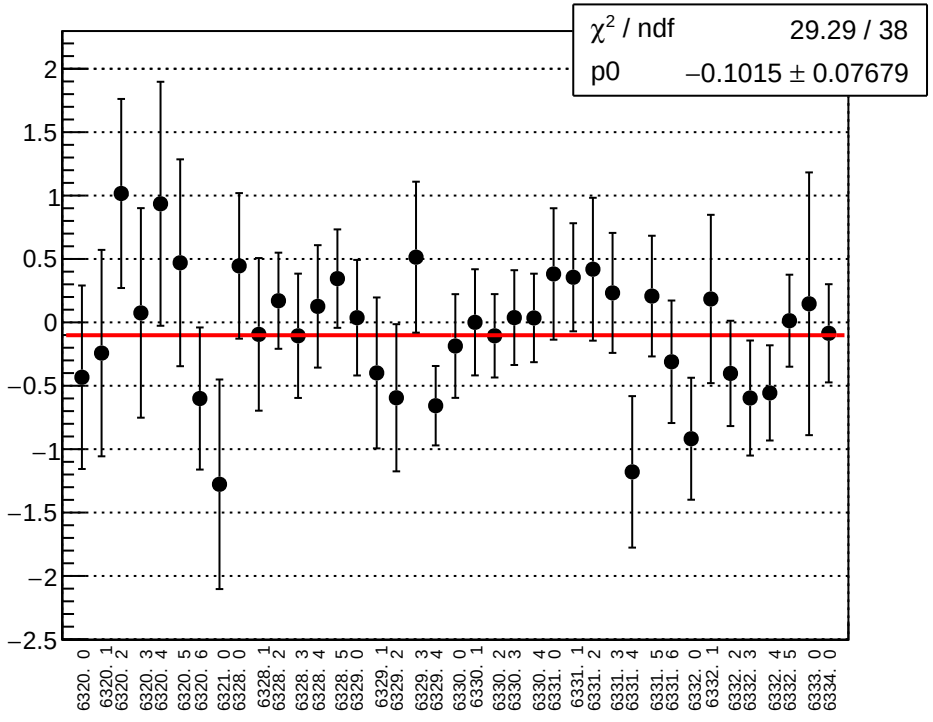

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.537e+04 / 38
p0 729.4 ± 0.8579
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

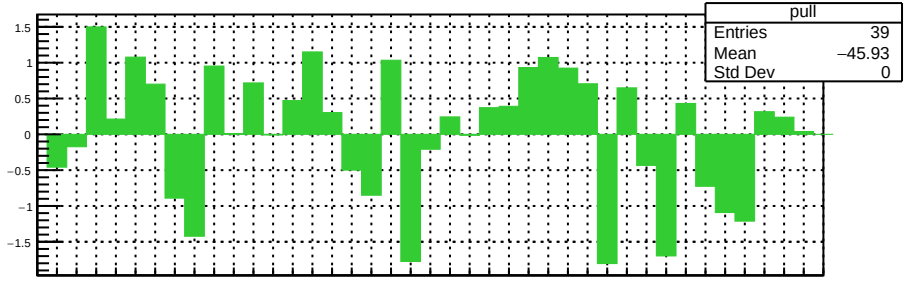

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.89 / 38
p0 −3.103e−14 ± 4.276e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.65
Std Dev 0
3
2
1
0
−1

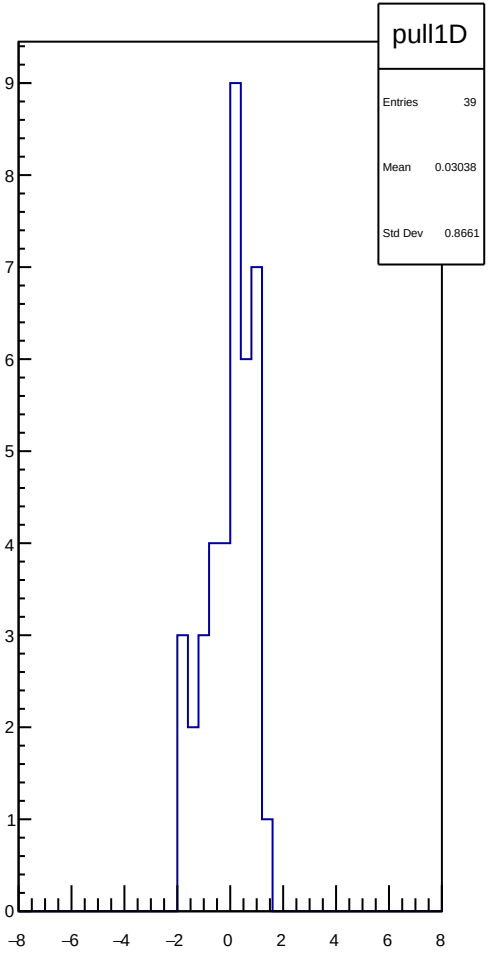

pull1D
Entries 39
Mean 0.04053
Std Dev 0.945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

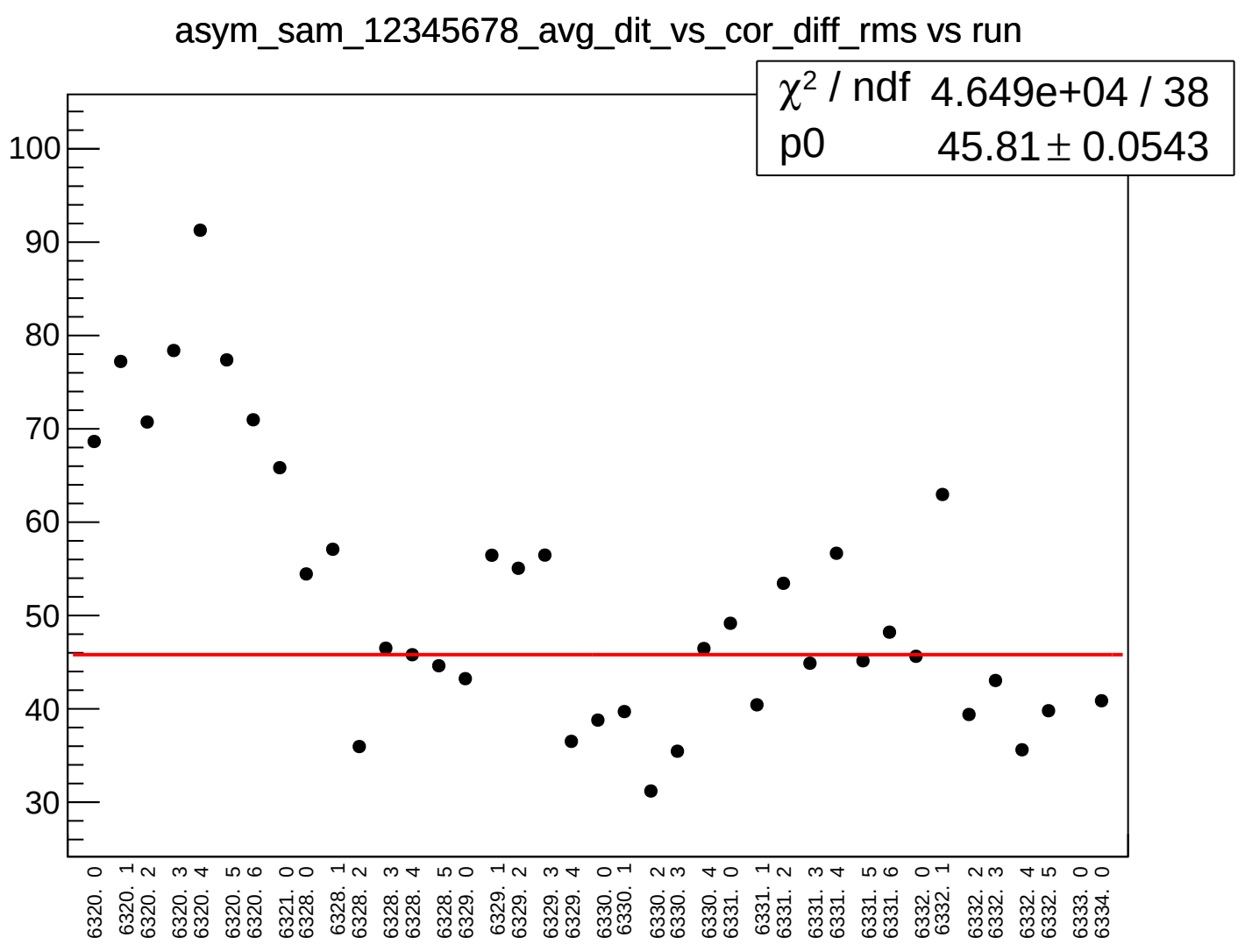

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.749e+05 / 38
p0 1.294e−11 ± 3.024e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

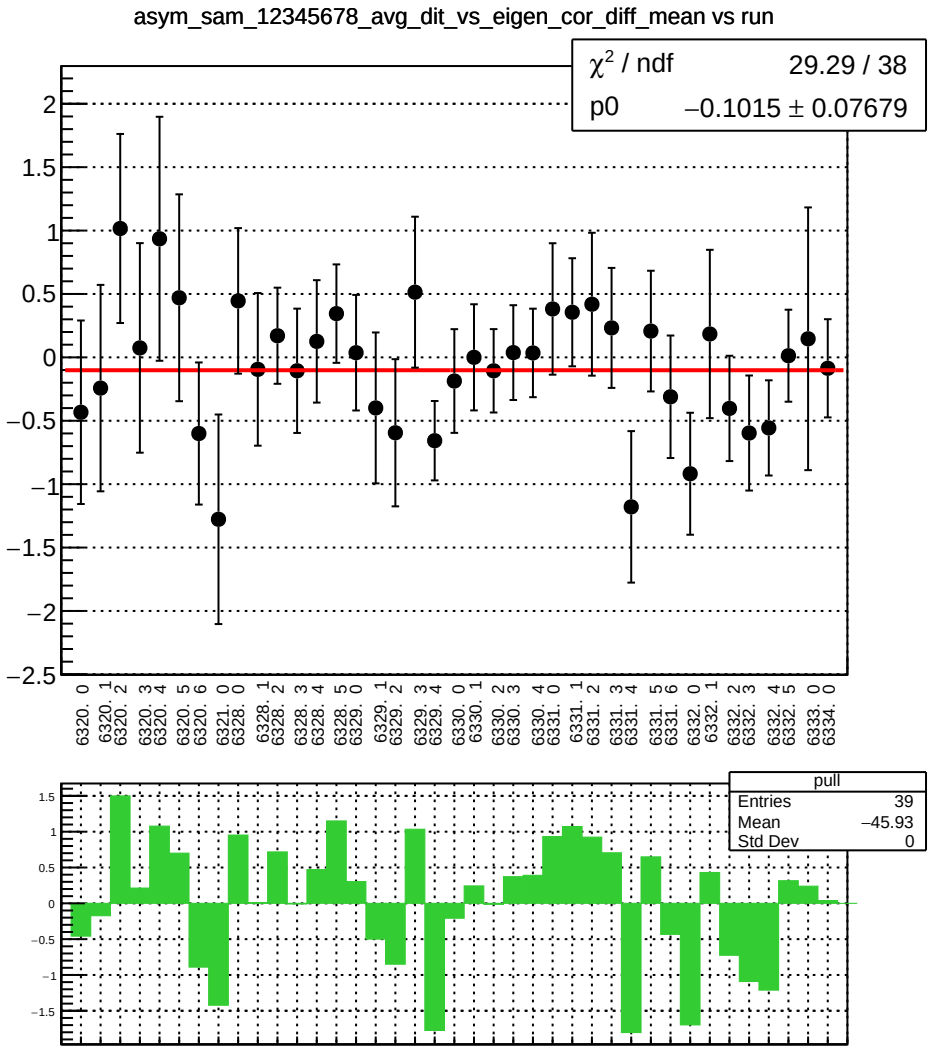
asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run

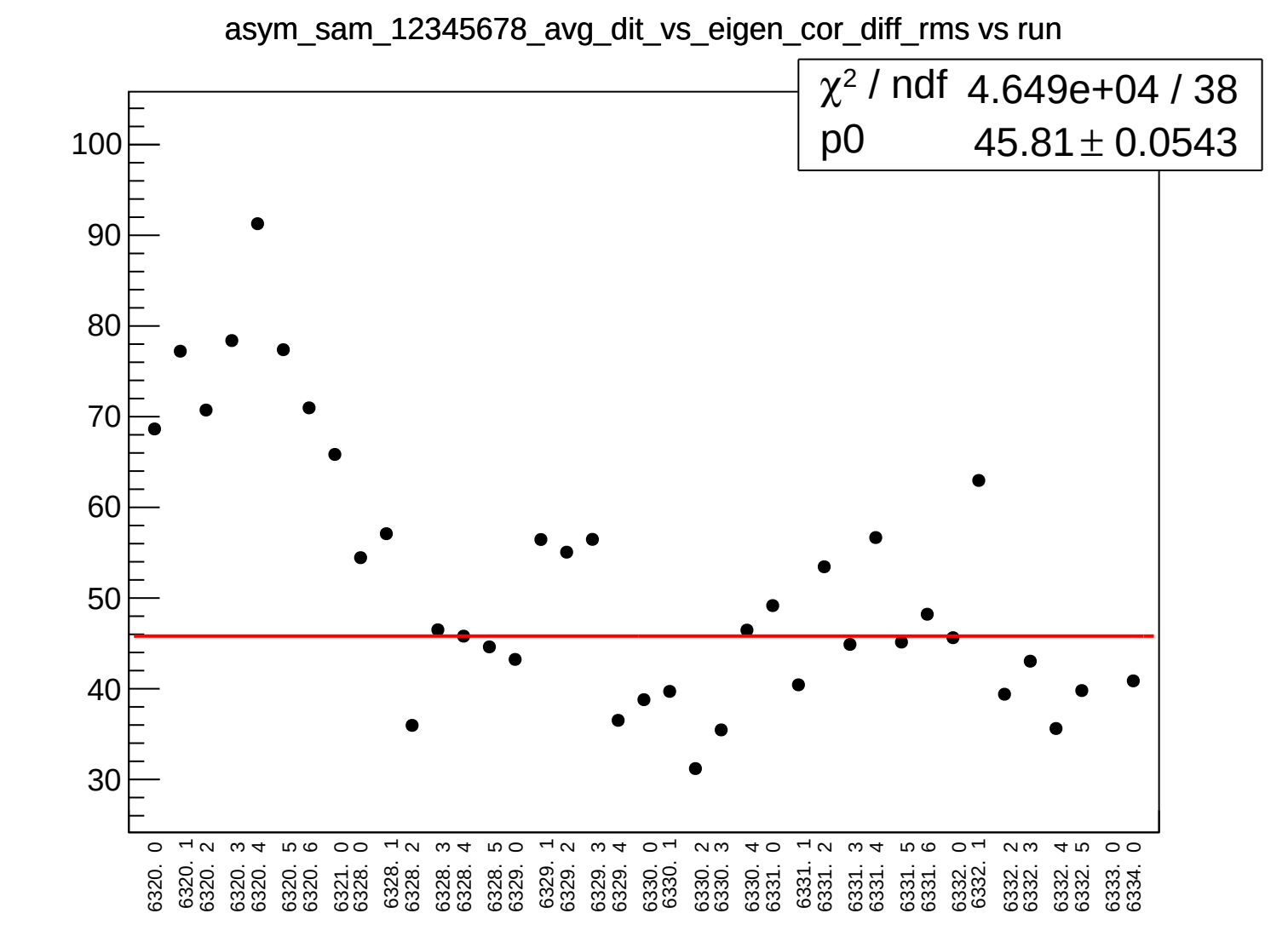


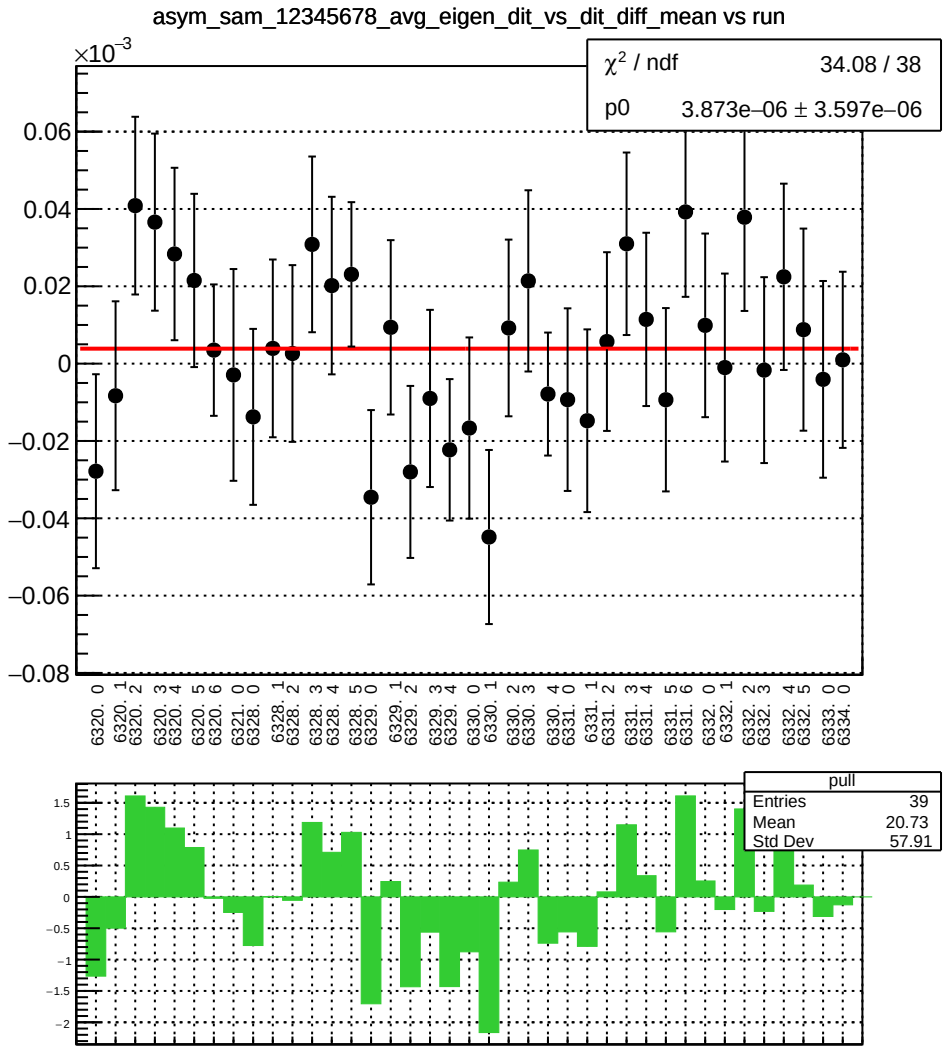


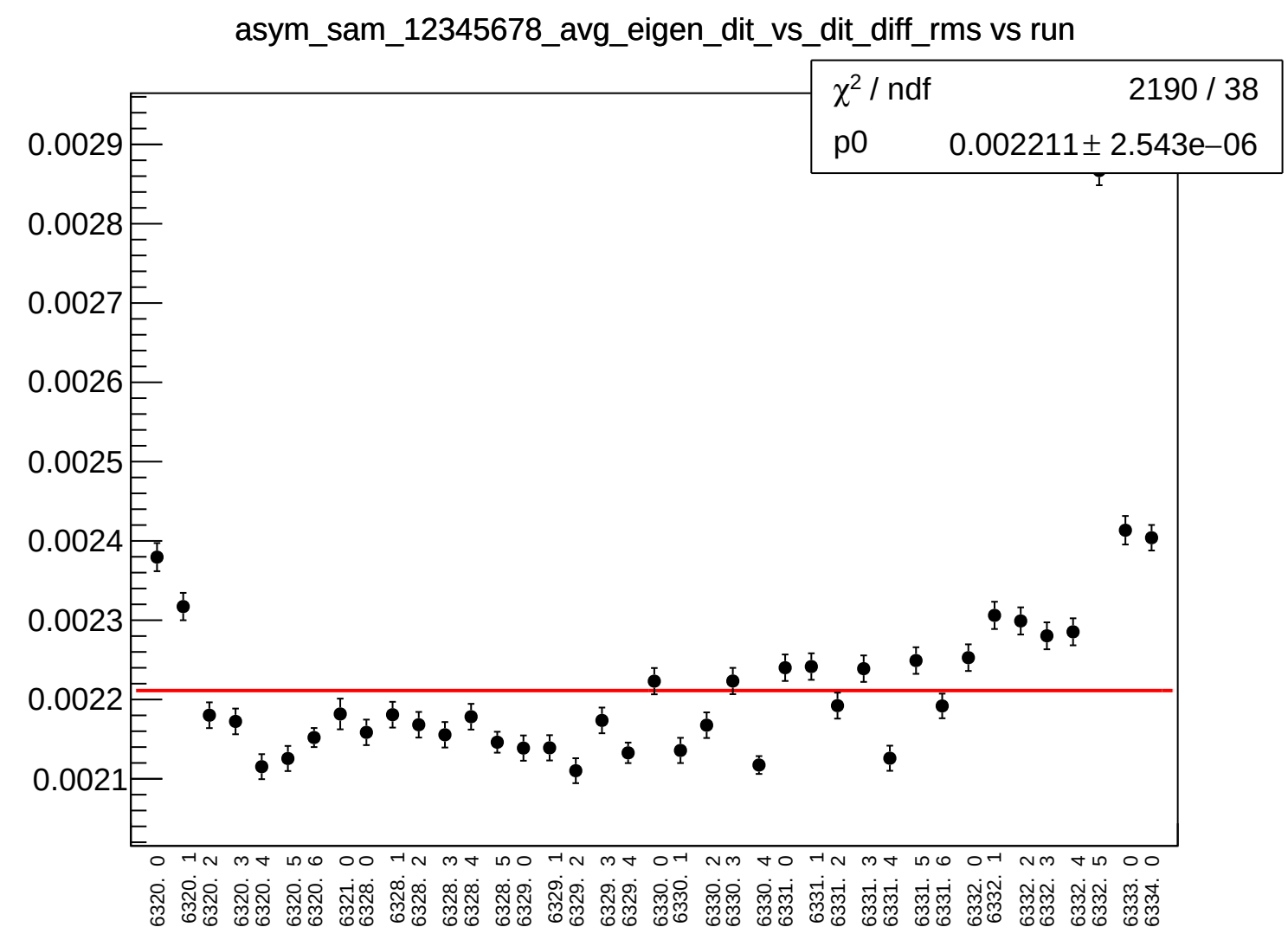


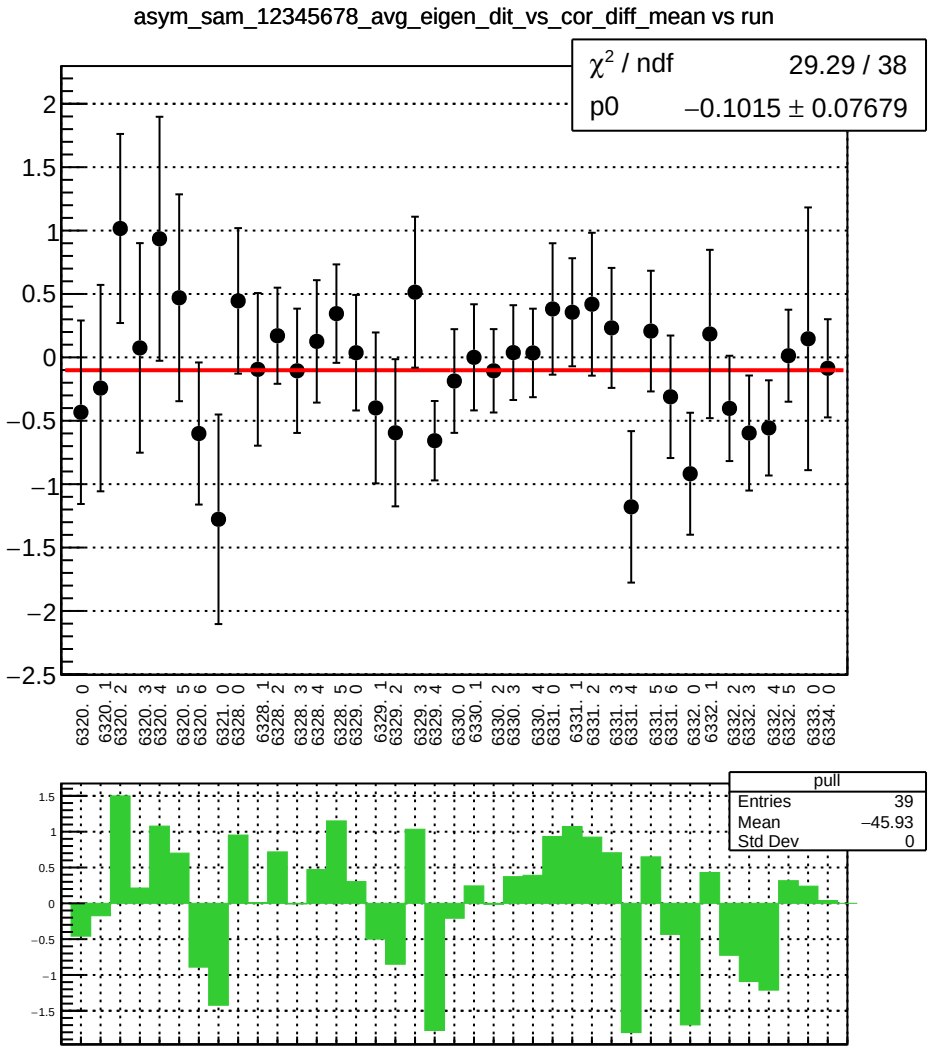

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.649e+04 / 38
p0 45.81 ± 0.0543
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

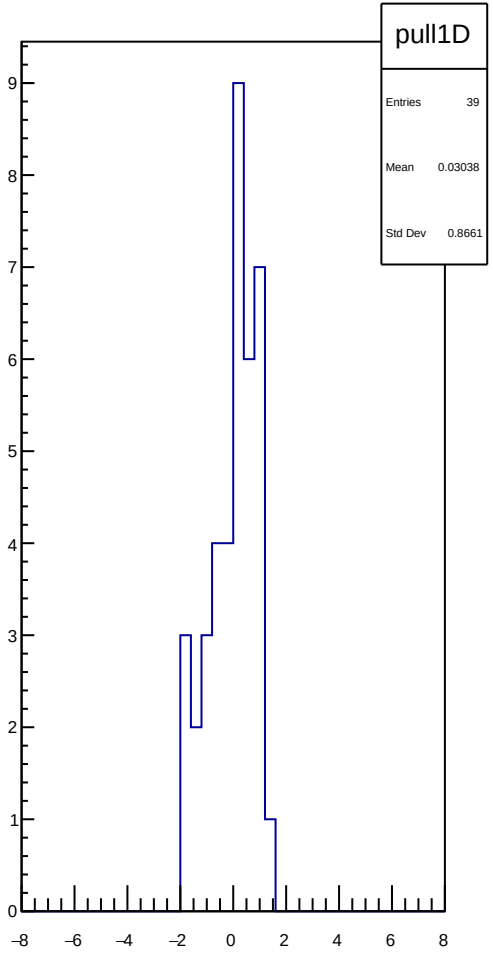

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.29 / 38
p0 −0.1015 ± 0.07679
pull
Entries 39
Mean −45.93
Std Dev 0
pull1D
Entries 39
Mean 0.03038
Std Dev 0.8661

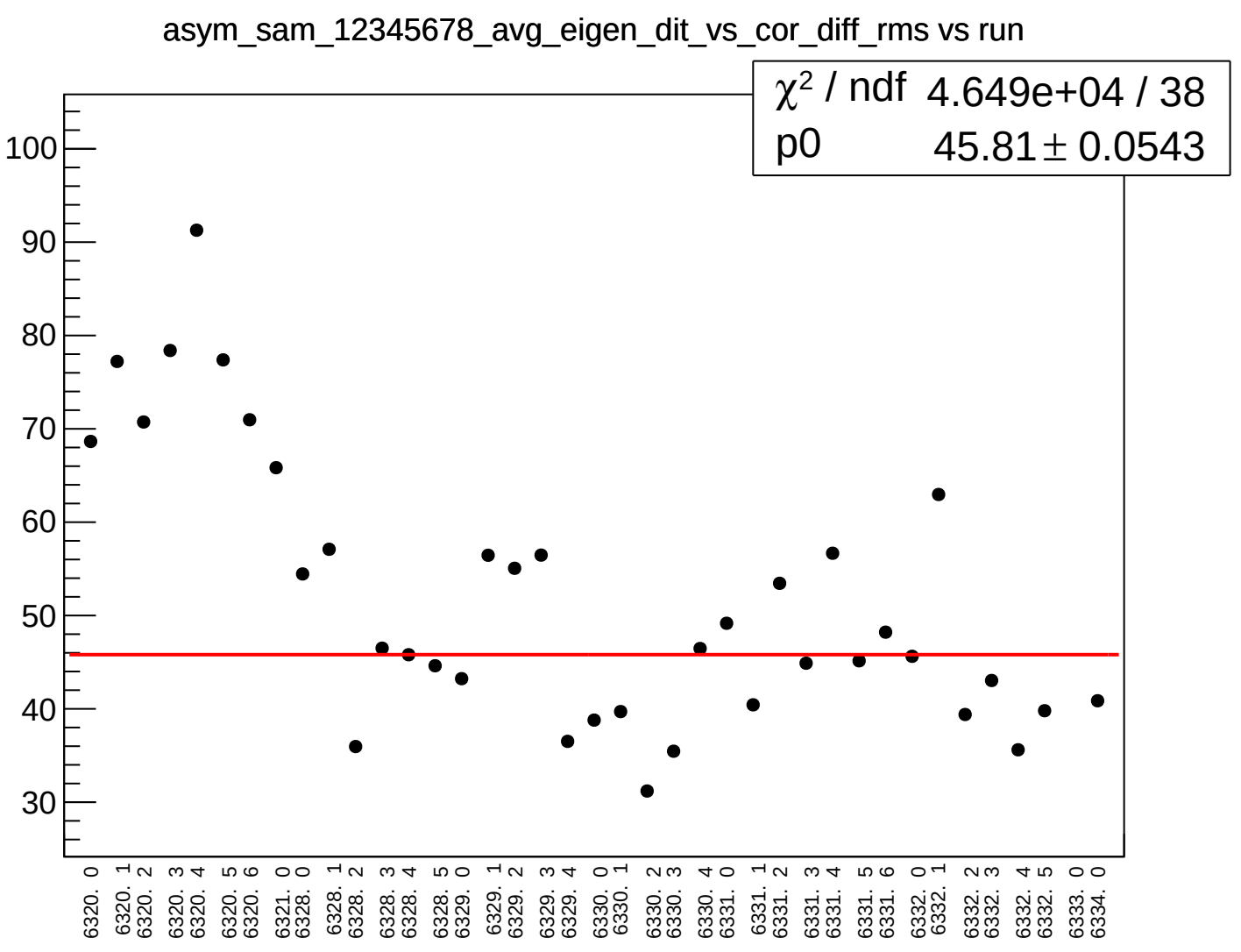

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.649e+04 / 38
p0 45.81 ± 0.0543
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

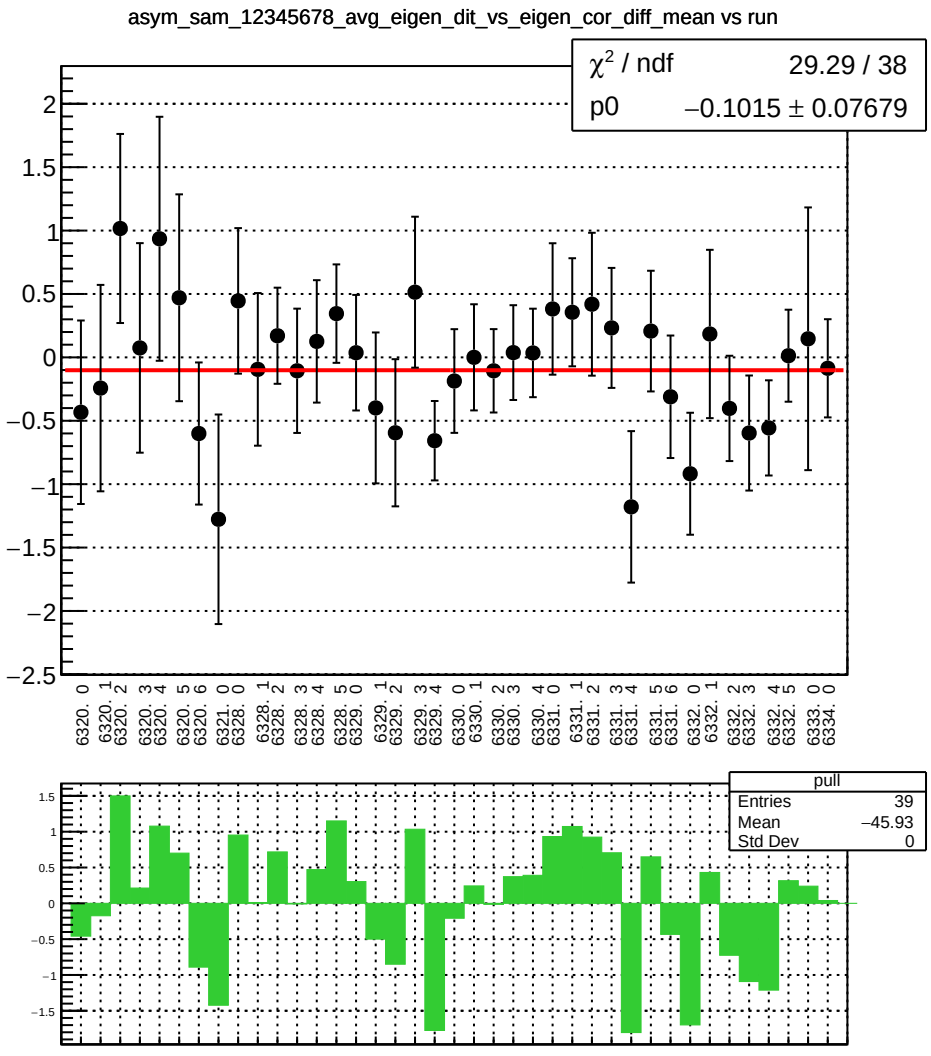

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.08 / 38
p0 3.873e−06 ± 3.597e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 20.73
Std Dev 57.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.008372
Std Dev 0.9348
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

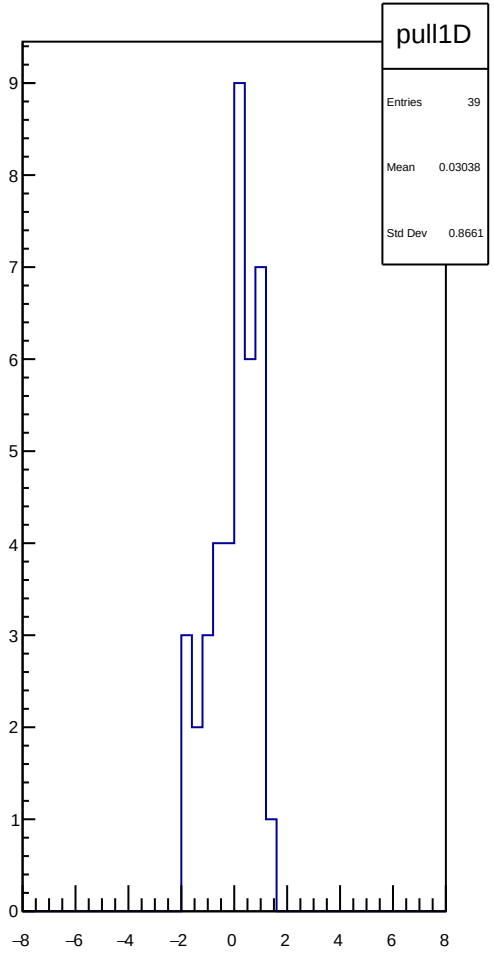

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2190 / 38
p0 0.002211 ± 2.543e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

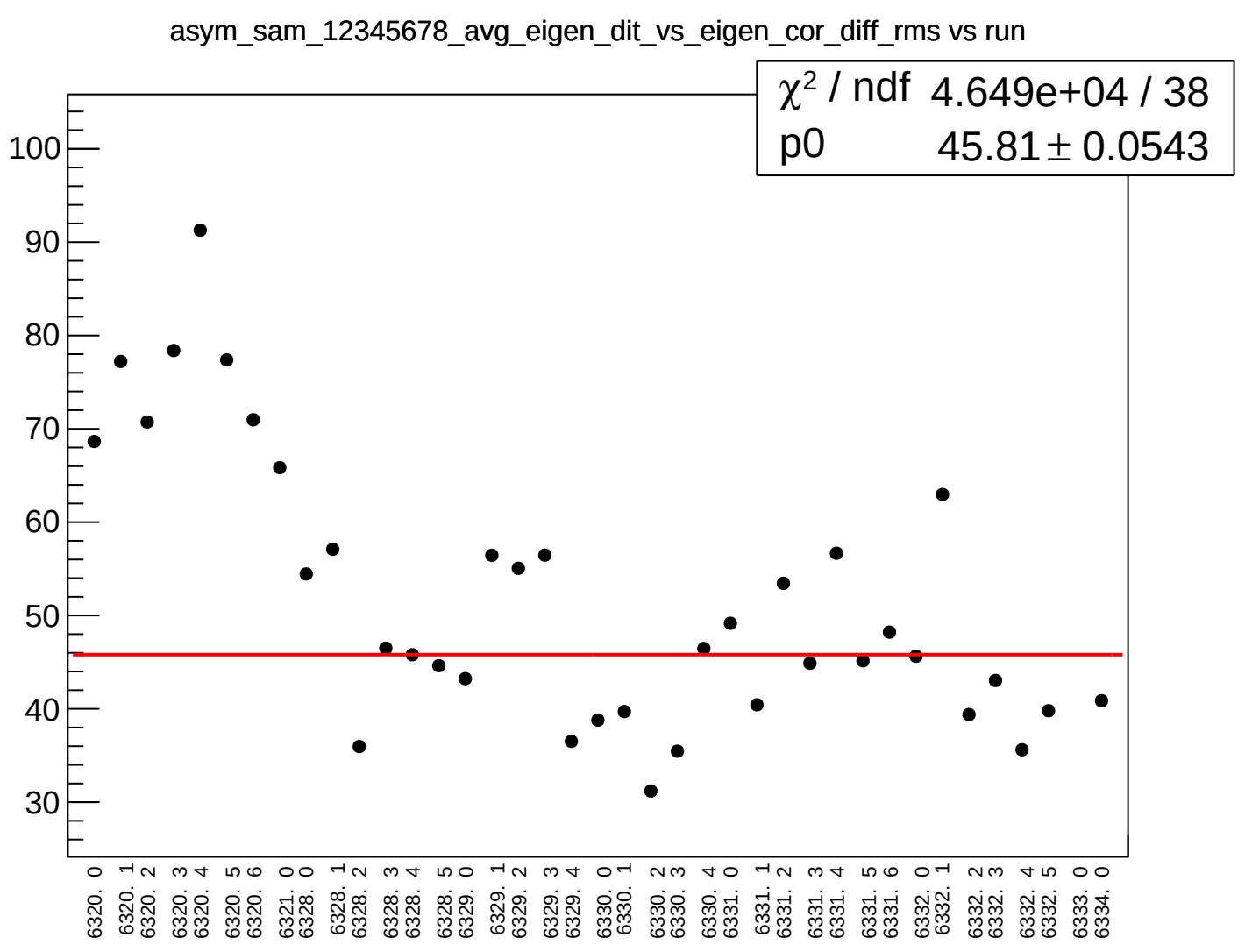

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.29 / 38
p0 −0.1015 ± 0.07679
pull
Entries 39
Mean −45.93
Std Dev 0

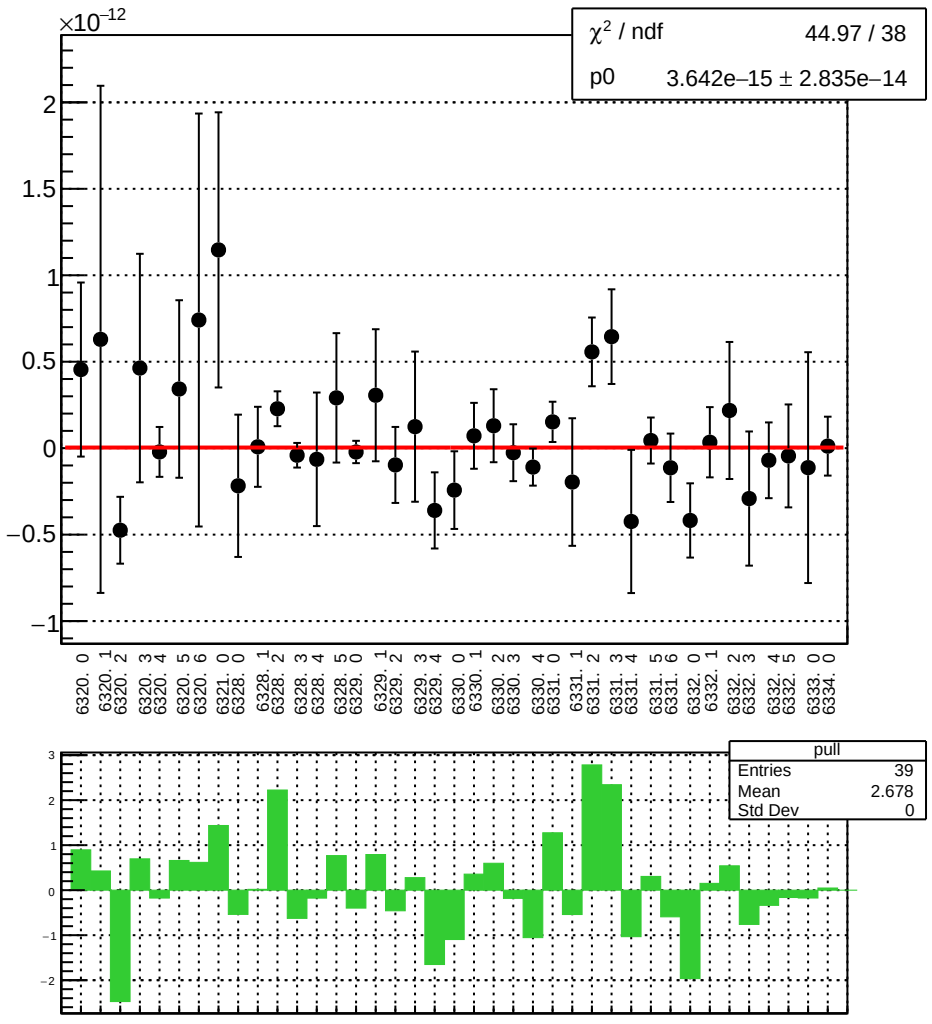

pull1D
Entries 39
Mean 0.03038
Std Dev 0.8661

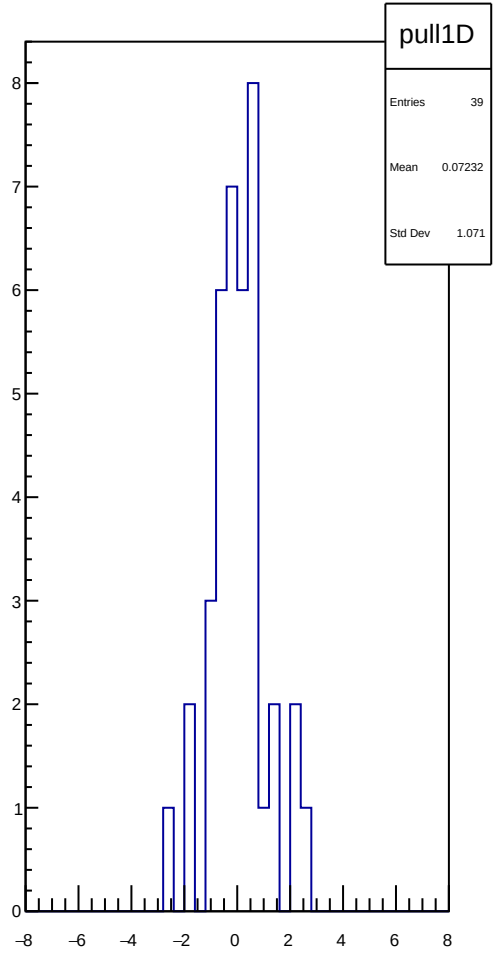

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.649e+04 / 38
p0 45.81 ± 0.0543
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

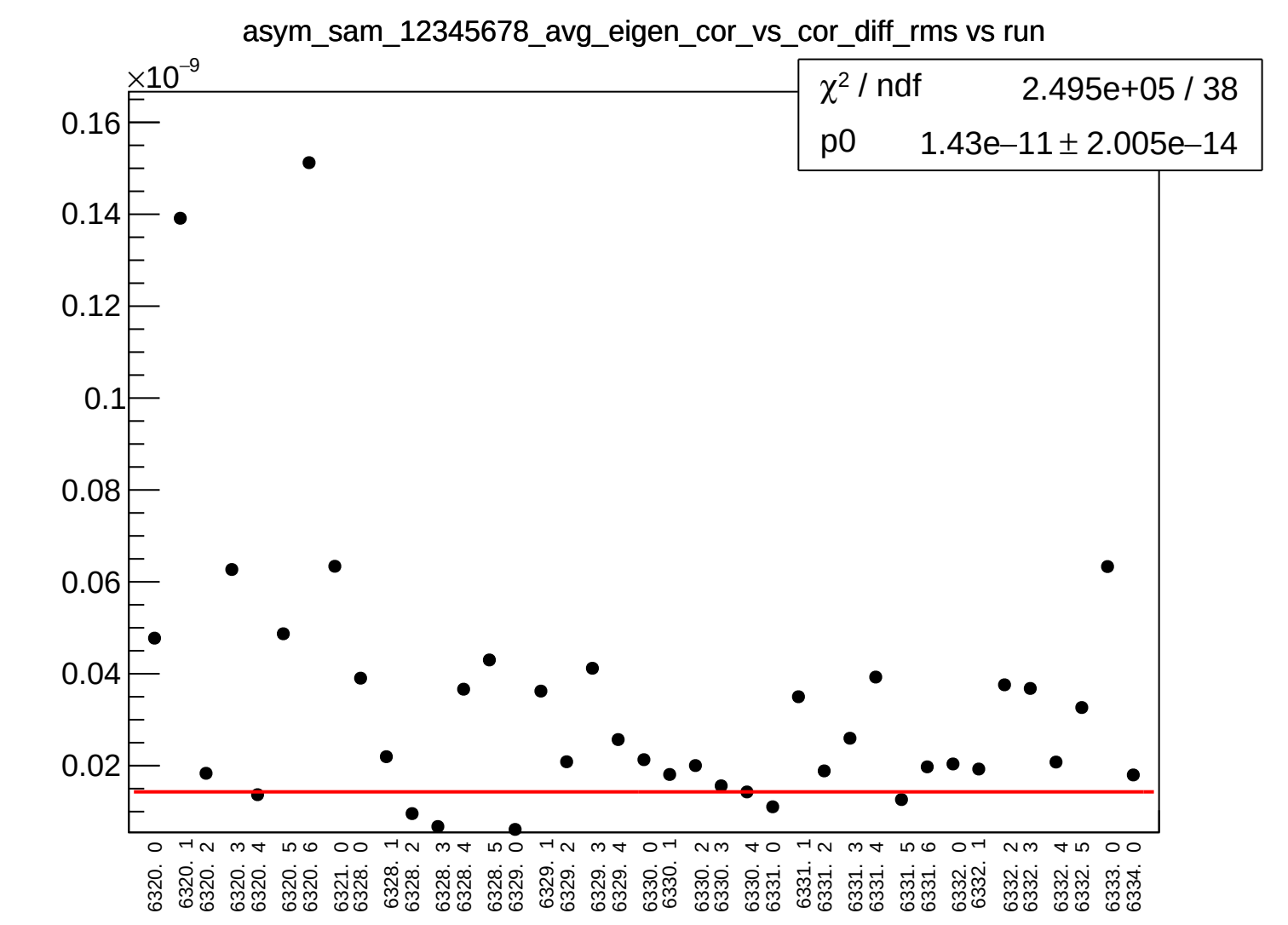

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.29 / 38
p0 −0.1015 ± 0.07679
pull
Entries 39
Mean −45.93
Std Dev 0

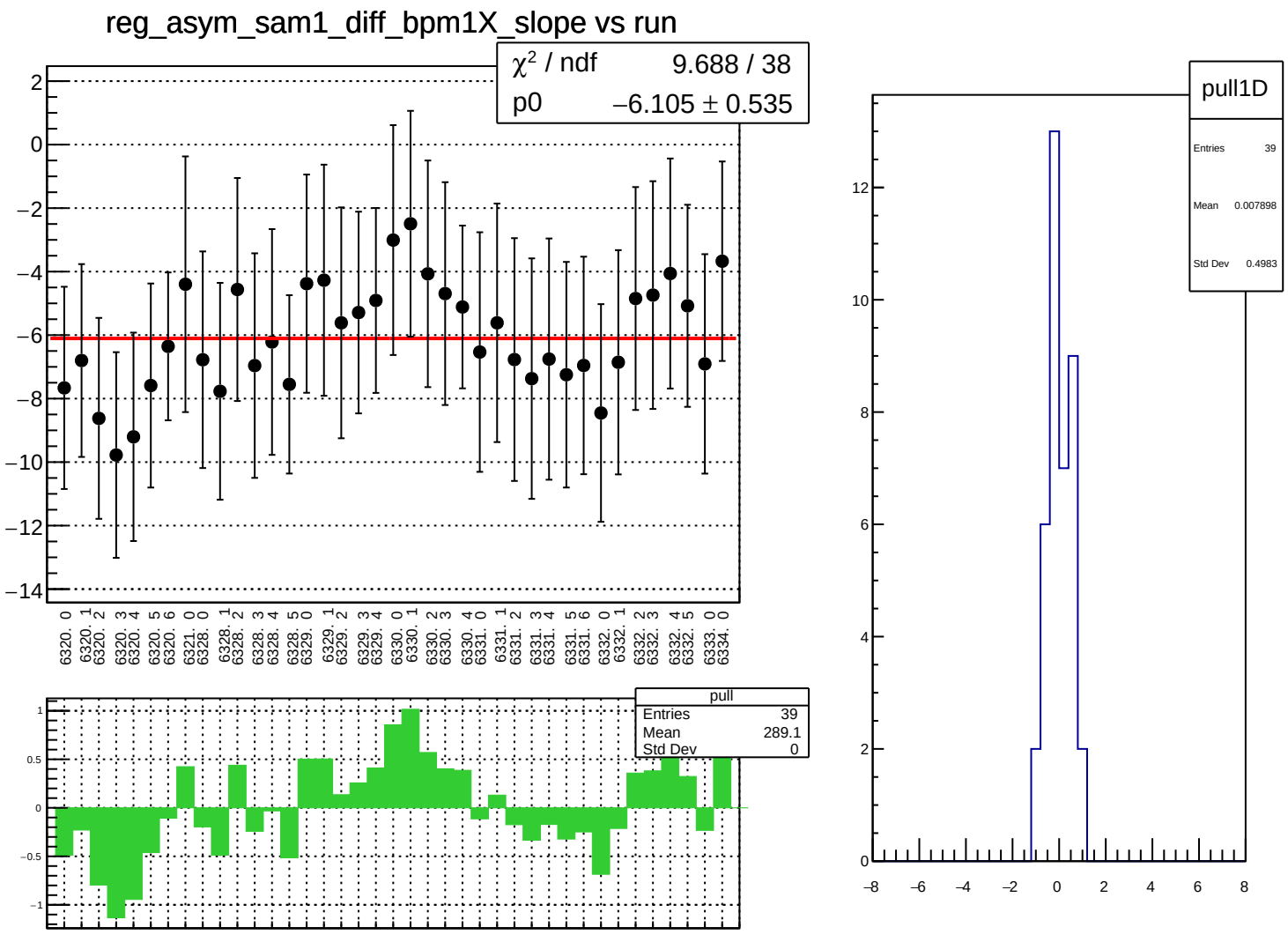

pull1D
Entries 39
Mean 0.03038
Std Dev 0.8661

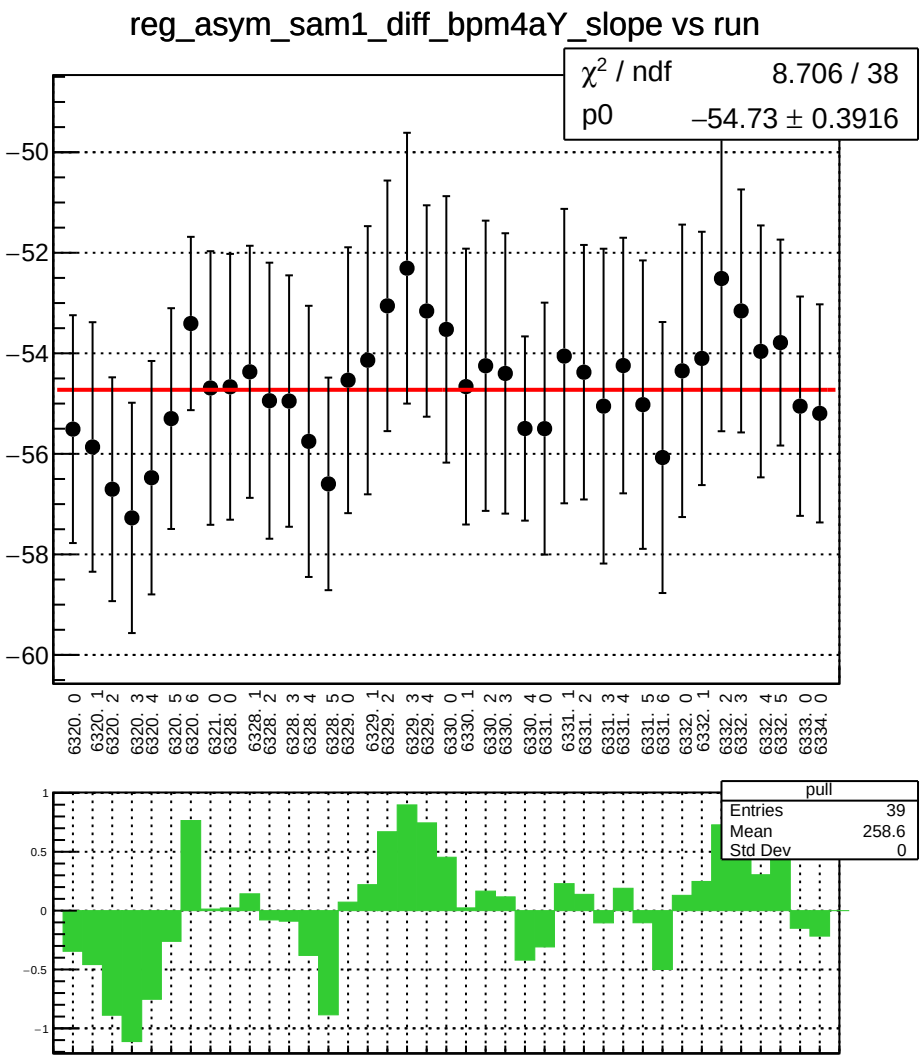

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.649e+04 / 38
p0 45.81 ± 0.0543
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

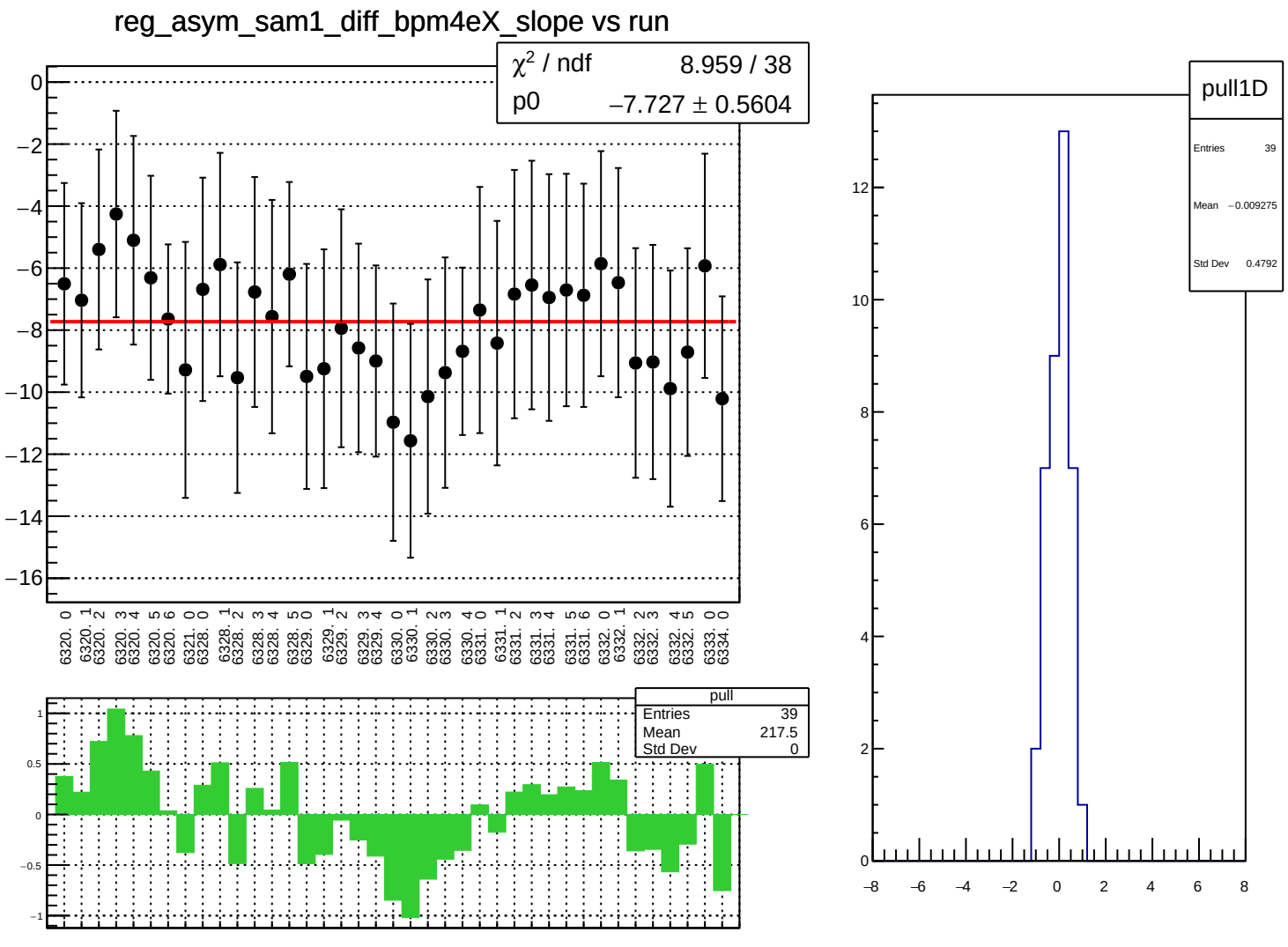

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.97 / 38
p0 3.642e−15 ± 2.835e−14
2
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 2.678
Std Dev 0
3
2
1
0
−1
−2

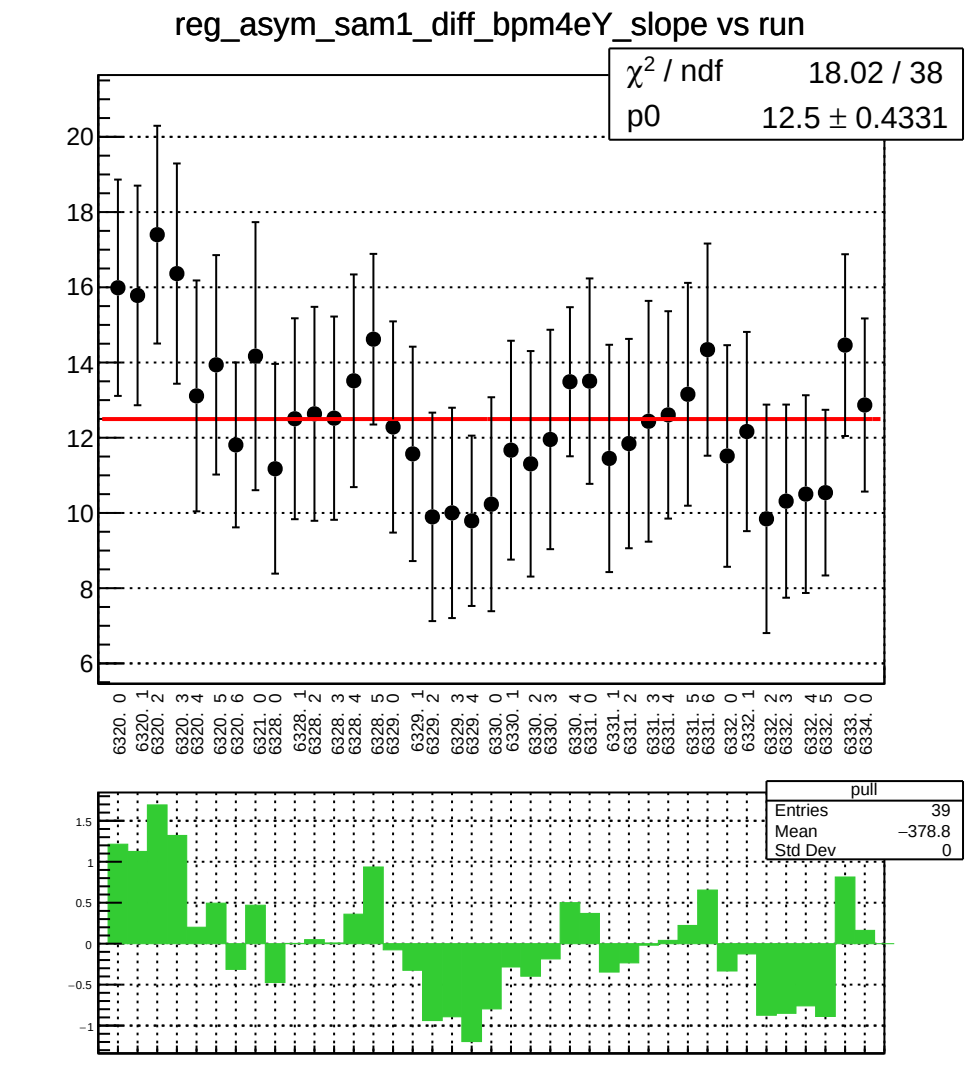

pull1D
Entries 39
Mean 0.07232
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

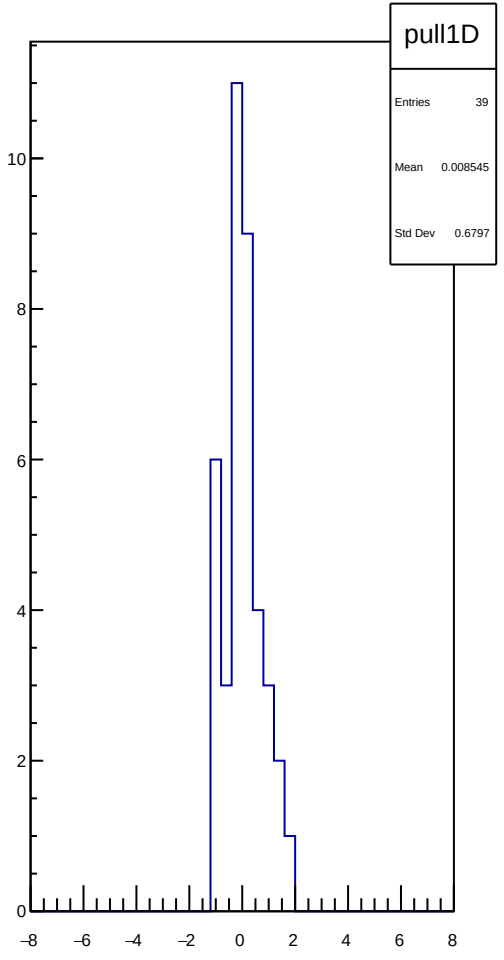

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.495e+05 / 38
p0 1.43e−11 ± 2.005e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0

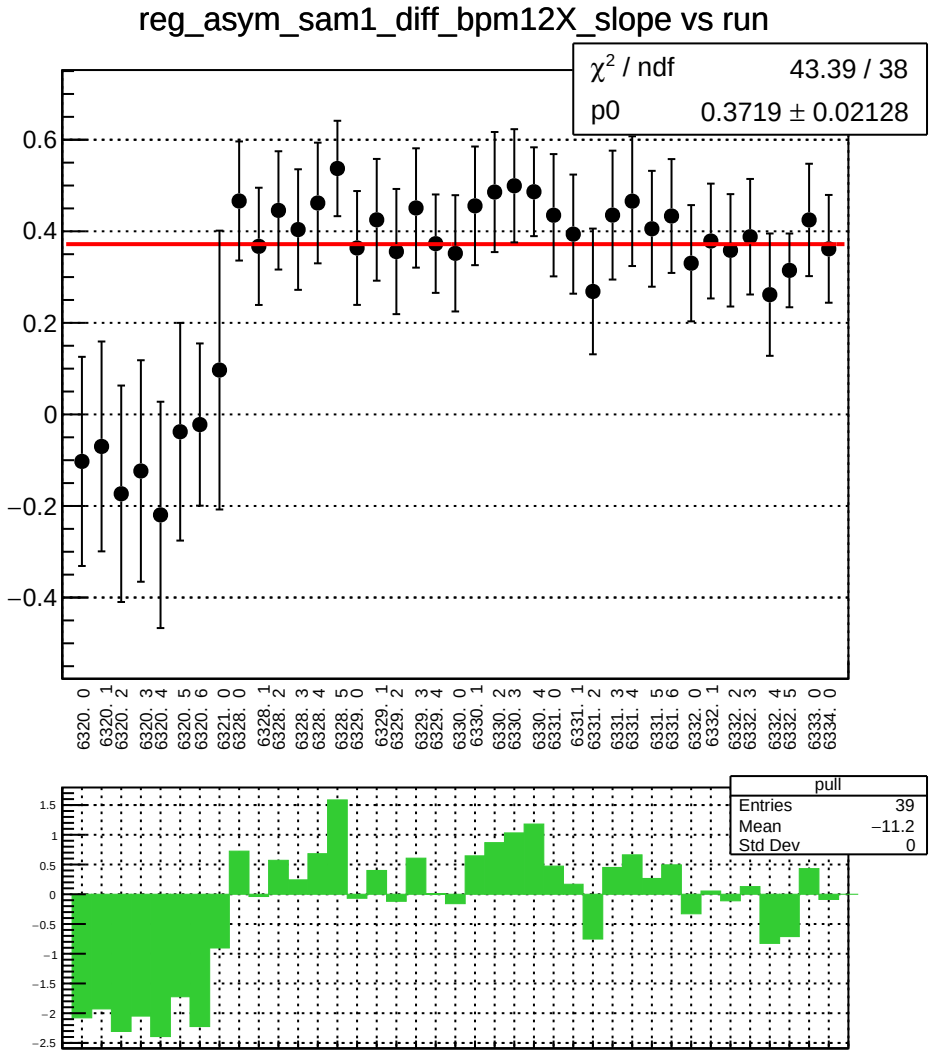

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 9.688 / 38
p0 −6.105 ± 0.535
pull
Entries 39
Mean 289.1
Std Dev 0
pull1D
Entries 39
Mean 0.007898
Std Dev 0.4983

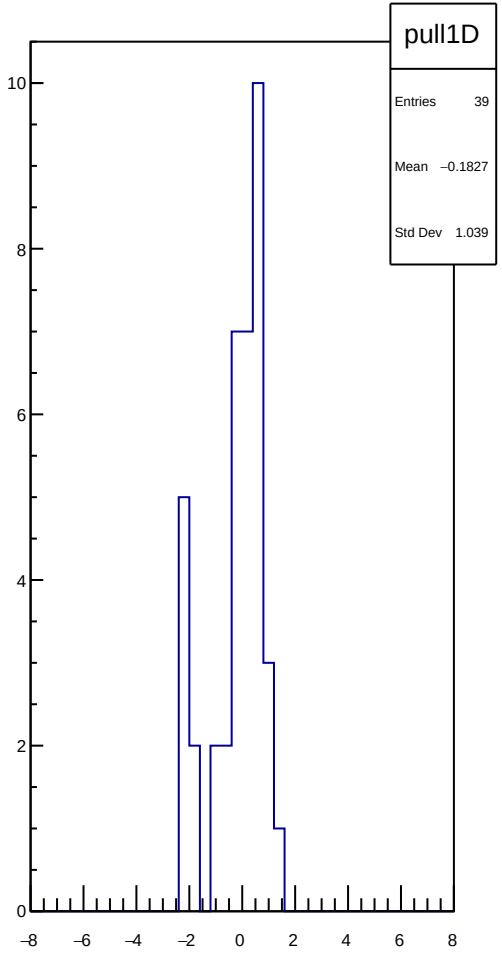

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 8.706 / 38
p0 −54.73 ± 0.3916
−50
−52
−54
−56
−58
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 258.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.008499
Std Dev 0.4724
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

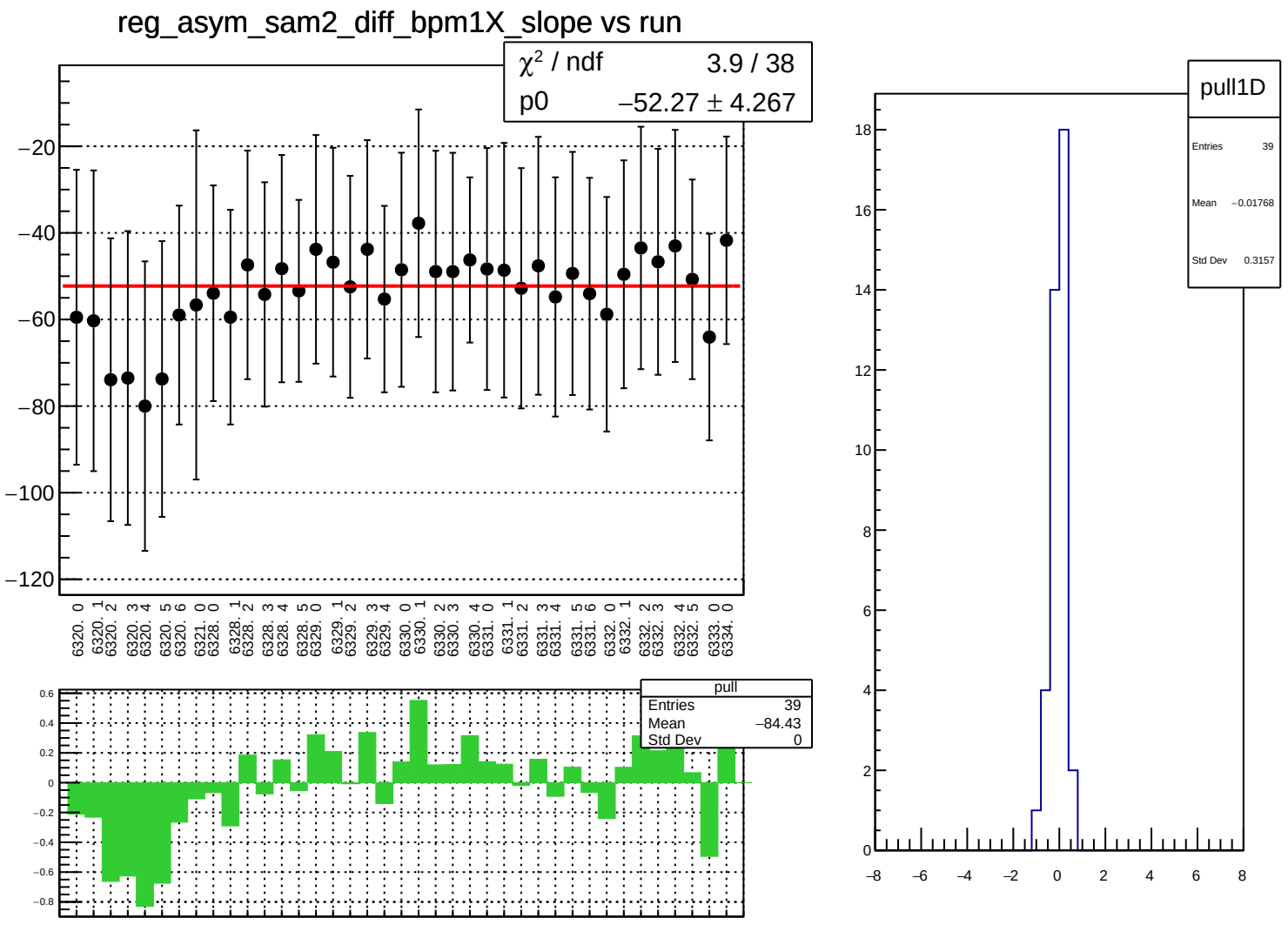

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.959 / 38
p0 −7.727 ± 0.5604
0
−2
−4
−6
−8
−10
−12
−14
−16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 217.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.009275
Std Dev 0.4792
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

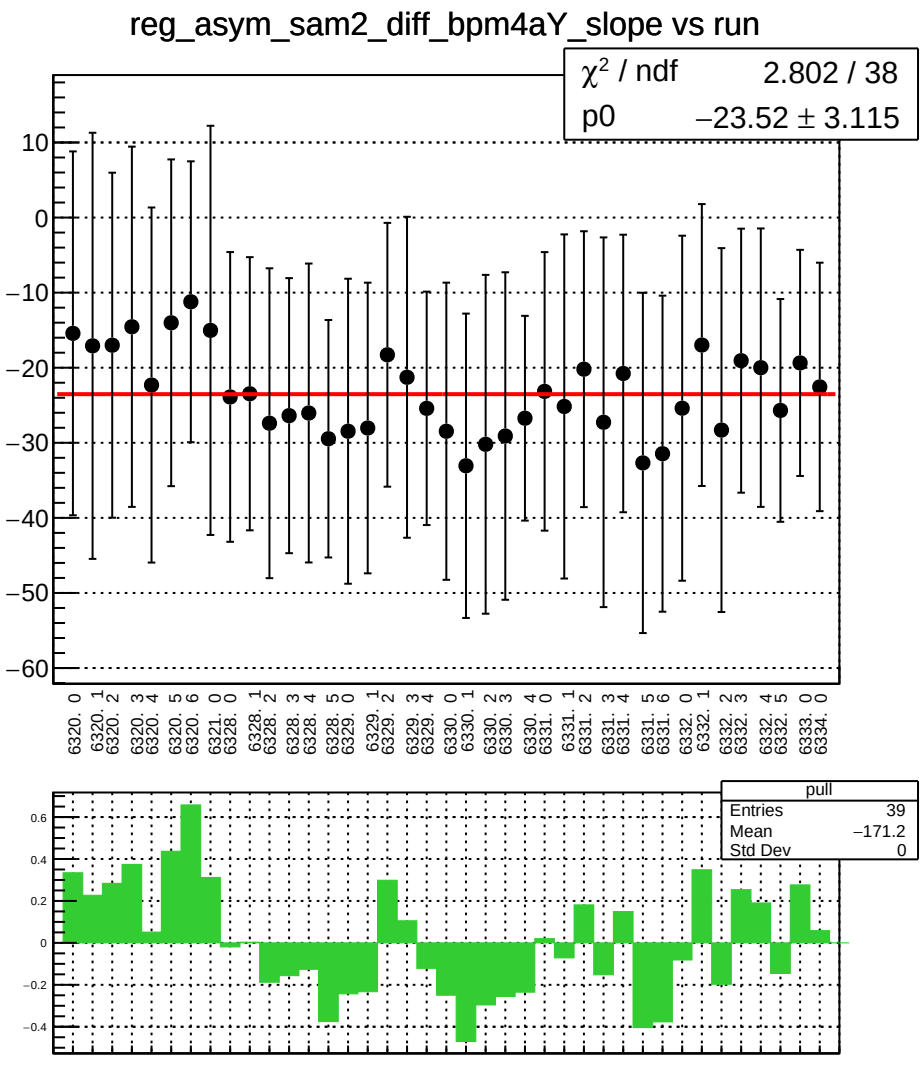

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 38
p0 12.5 ± 0.4331
pull
Entries 39
Mean −378.8
Std Dev 0

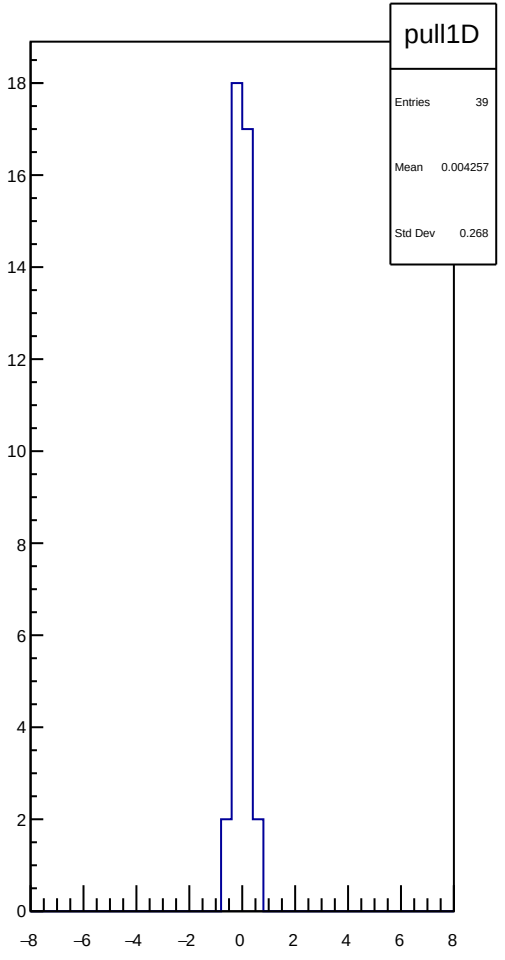

pull1D
Entries 39
Mean 0.008545
Std Dev 0.6797

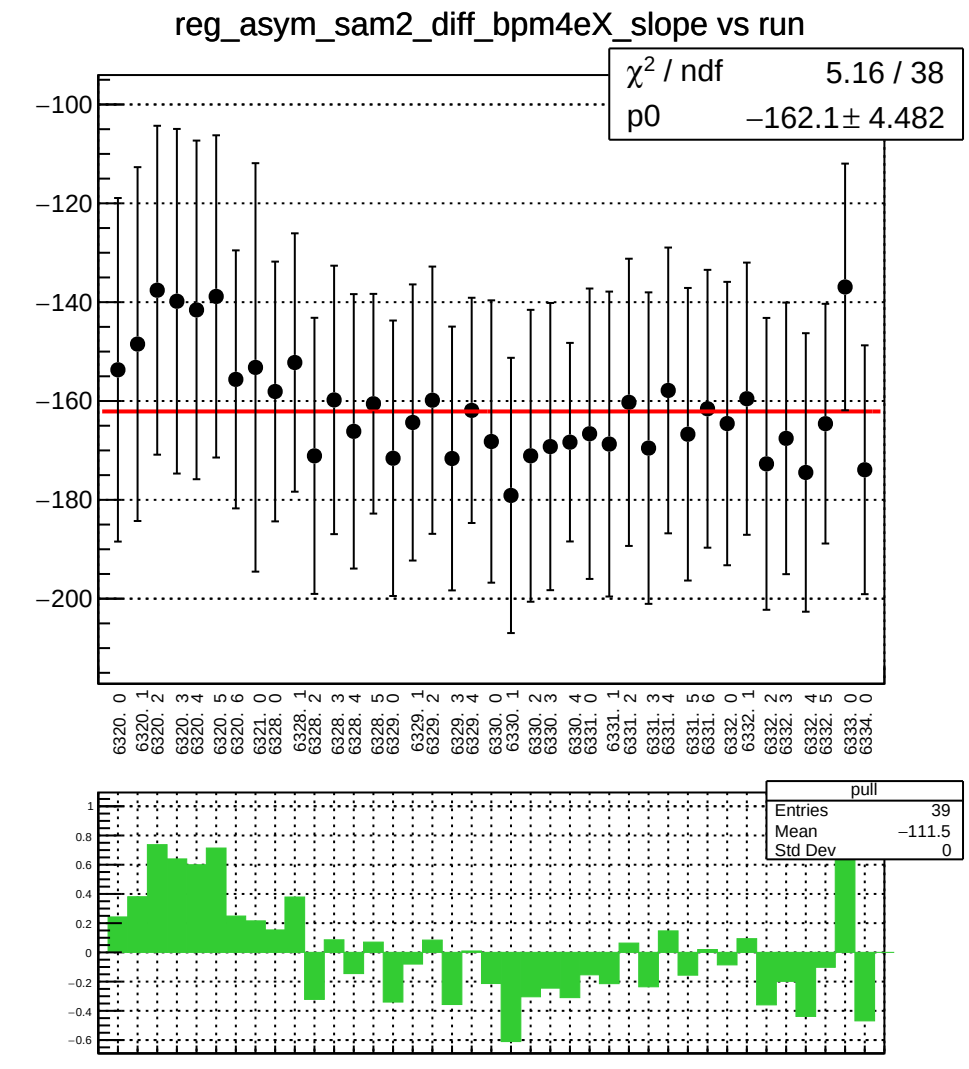

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 43.39 / 38
p0 0.3719 ± 0.02128
pull
Entries 39
Mean −11.2
Std Dev 0

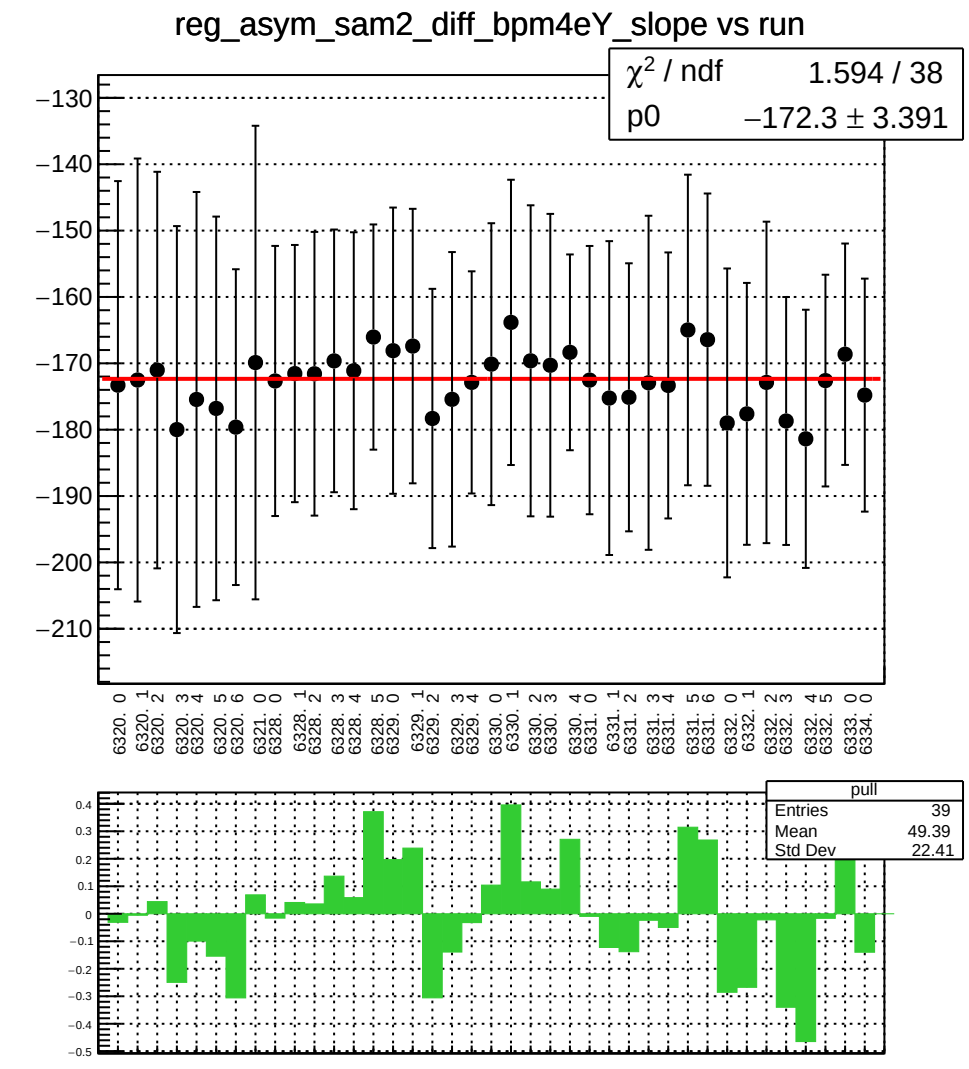

pull1D
Entries 39
Mean −0.1827
Std Dev 1.039

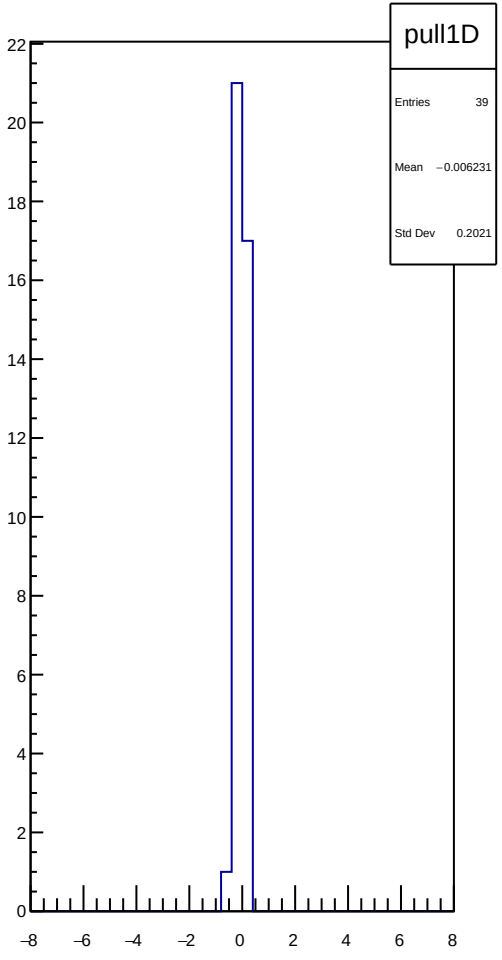

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.9 / 38
p0 −52.27 ± 4.267
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −84.43
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.01768
Std Dev 0.3157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

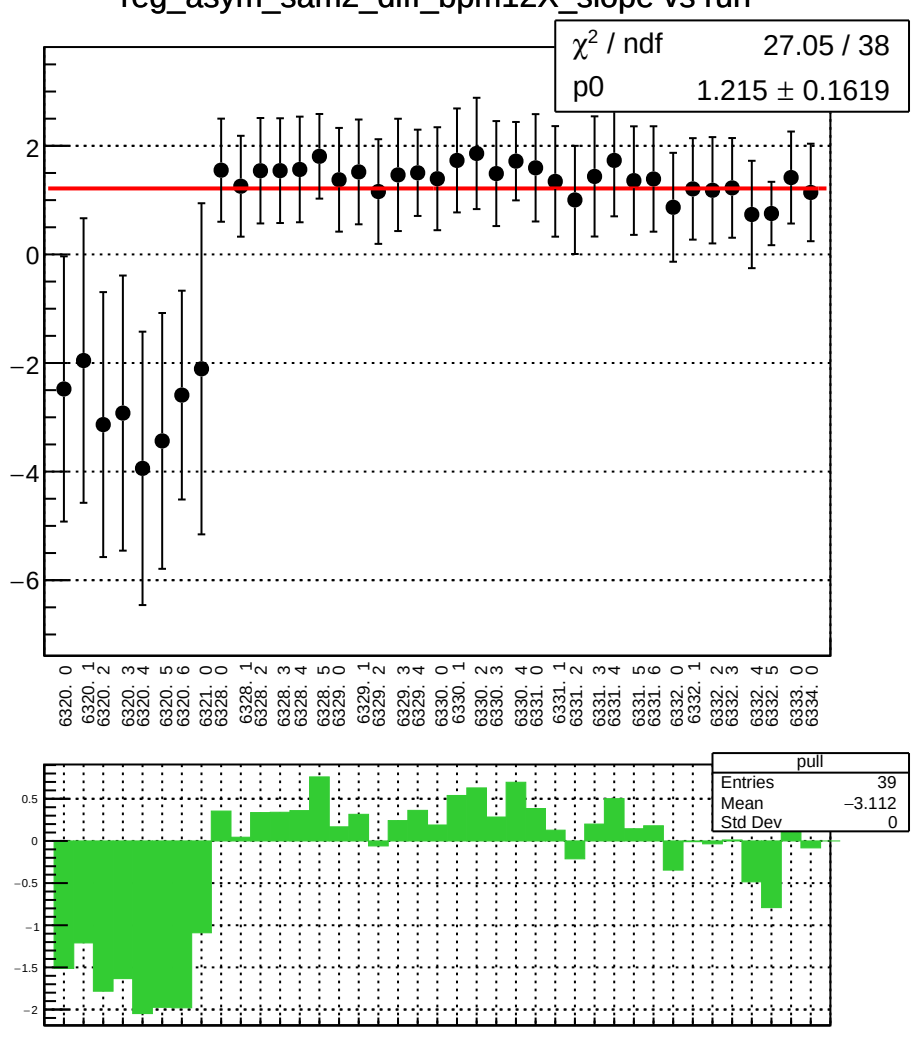

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.802 / 38
p0 −23.52 ± 3.115
10
0
−10
−20
−30
−40
−50
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −171.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

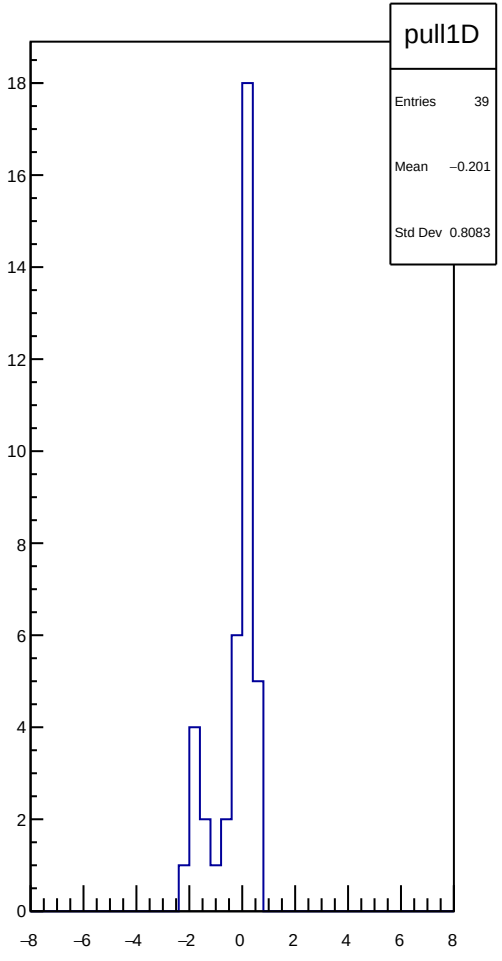

pull1D
Entries 39
Mean 0.004257
Std Dev 0.268
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

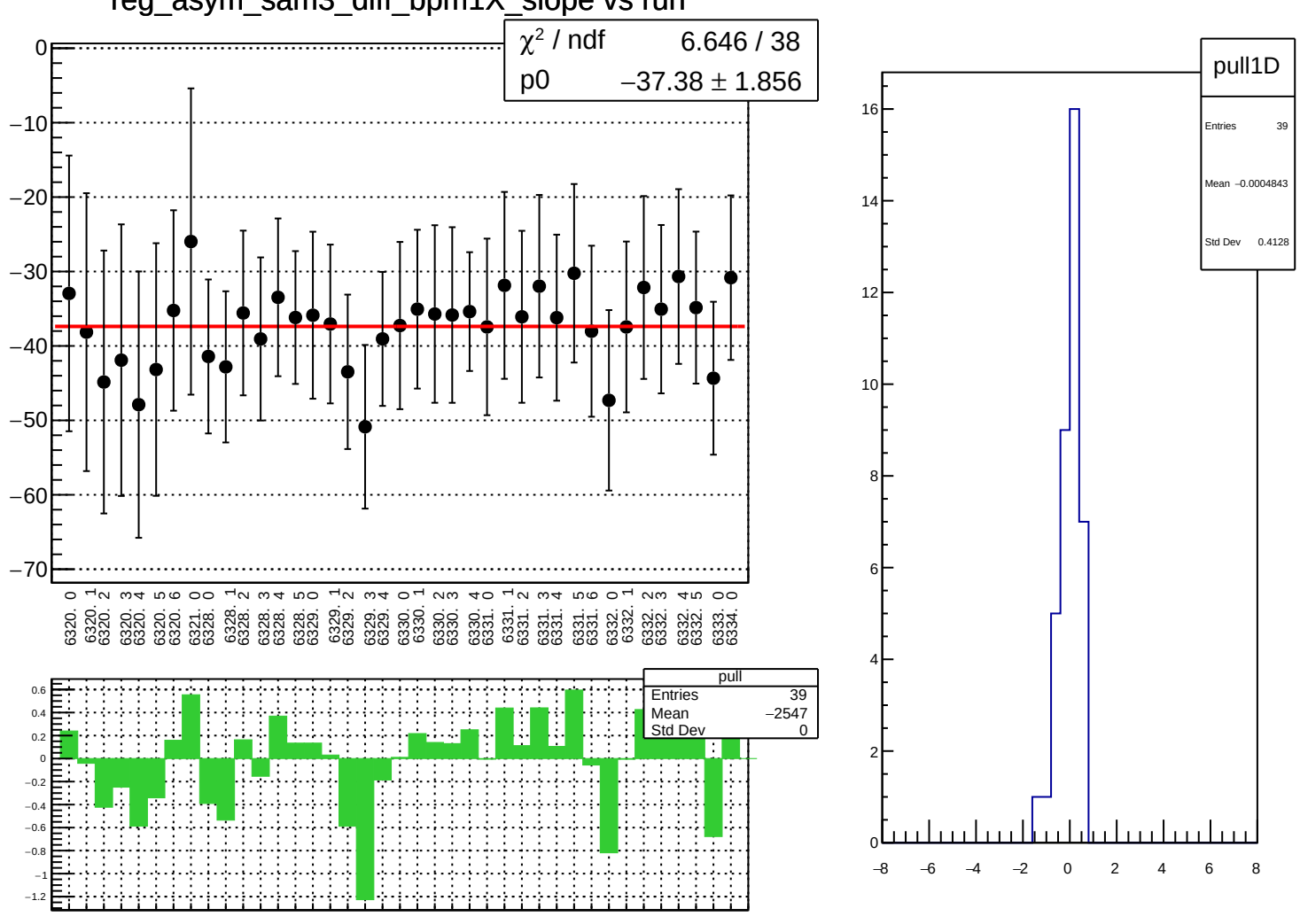

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.16 / 38
p0 −162.1± 4.482
−100
−120
−140
−160
−180
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −111.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.01433
Std Dev 0.3634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

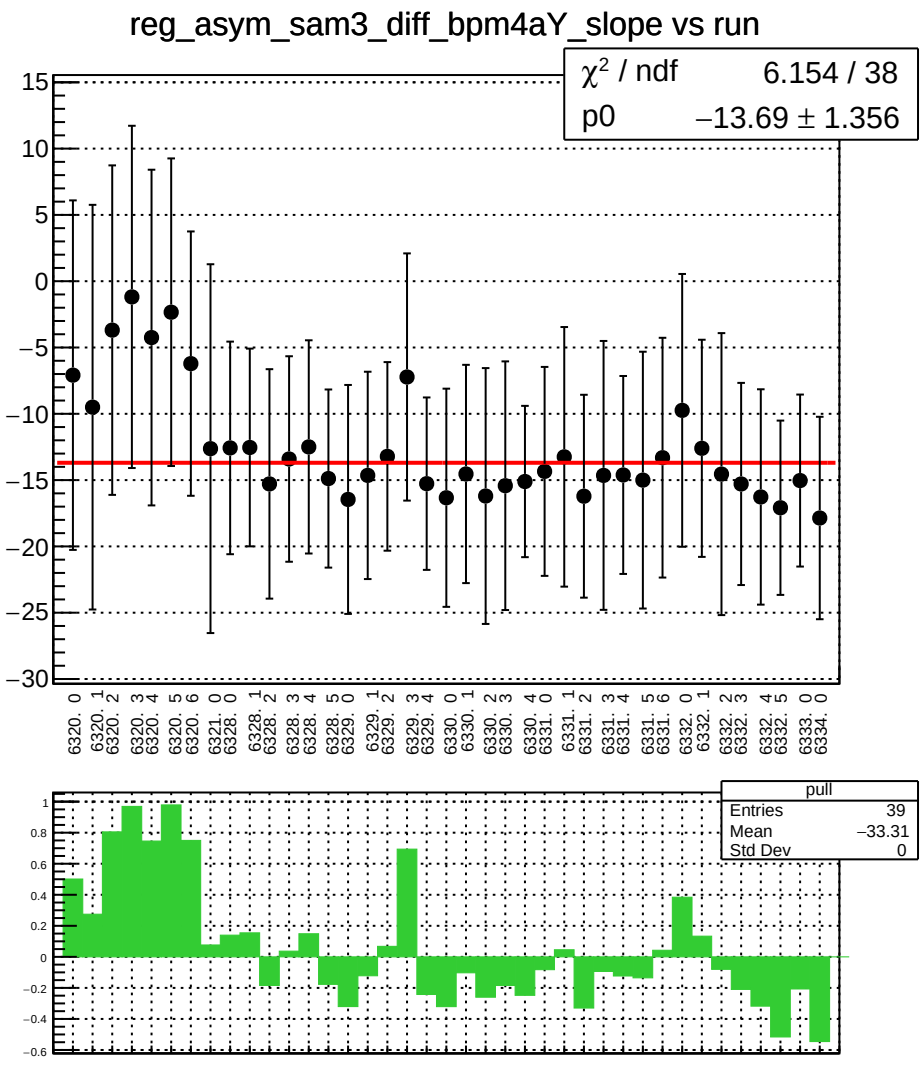

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.594 / 38
p0 −172.3 ± 3.391
−130
−140
−150
−160
−170
−180
−190
−200
−210
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.39
Std Dev 22.41
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

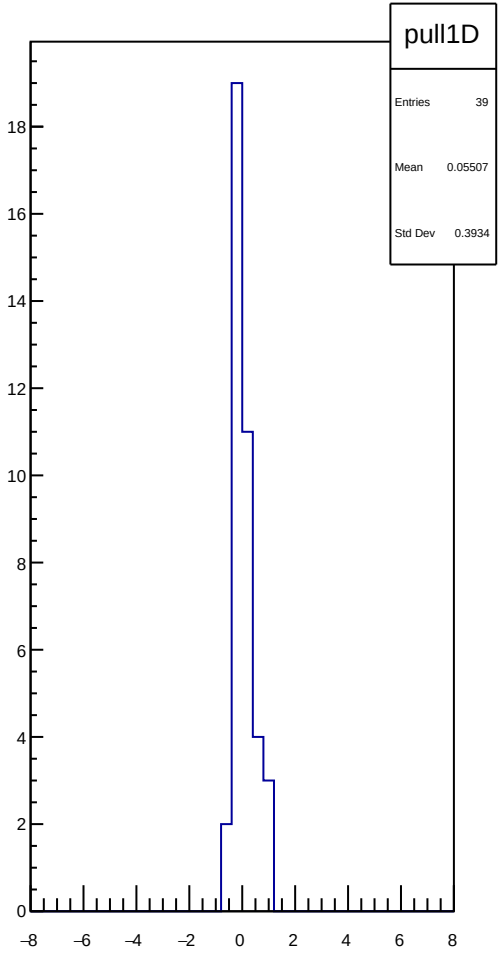

pull1D
Entries 39
Mean −0.006231
Std Dev 0.2021
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

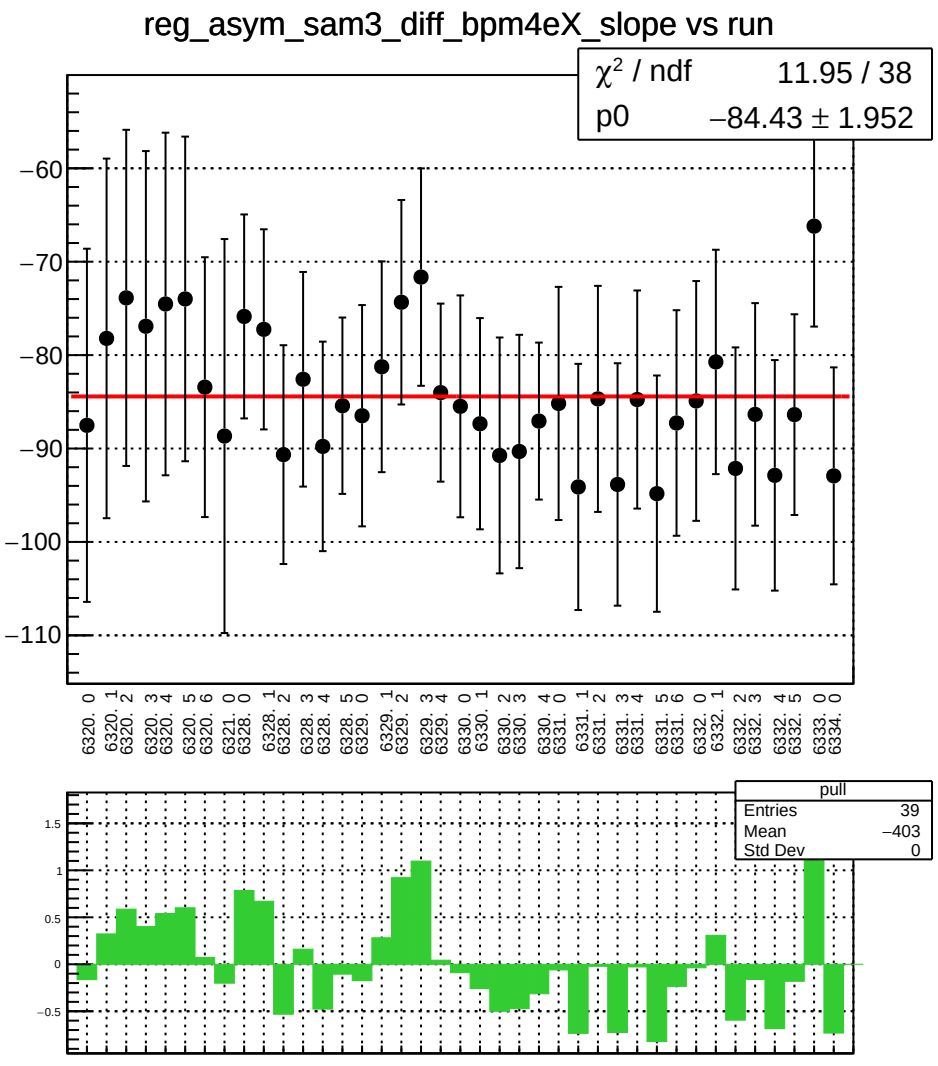

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 27.05 / 38
p0 1.215 ± 0.1619
pull
Entries 39
Mean −3.112
Std Dev 0

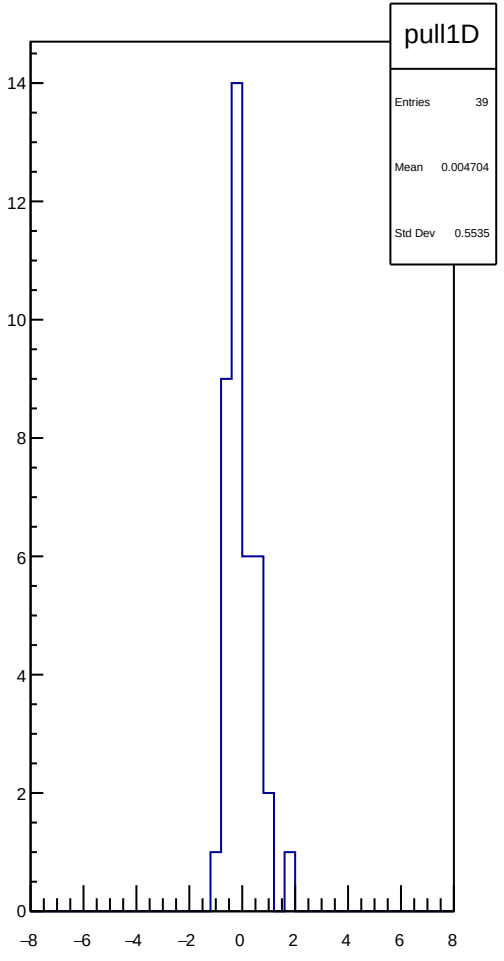

pull1D
Entries 39
Mean −0.201
Std Dev 0.8083

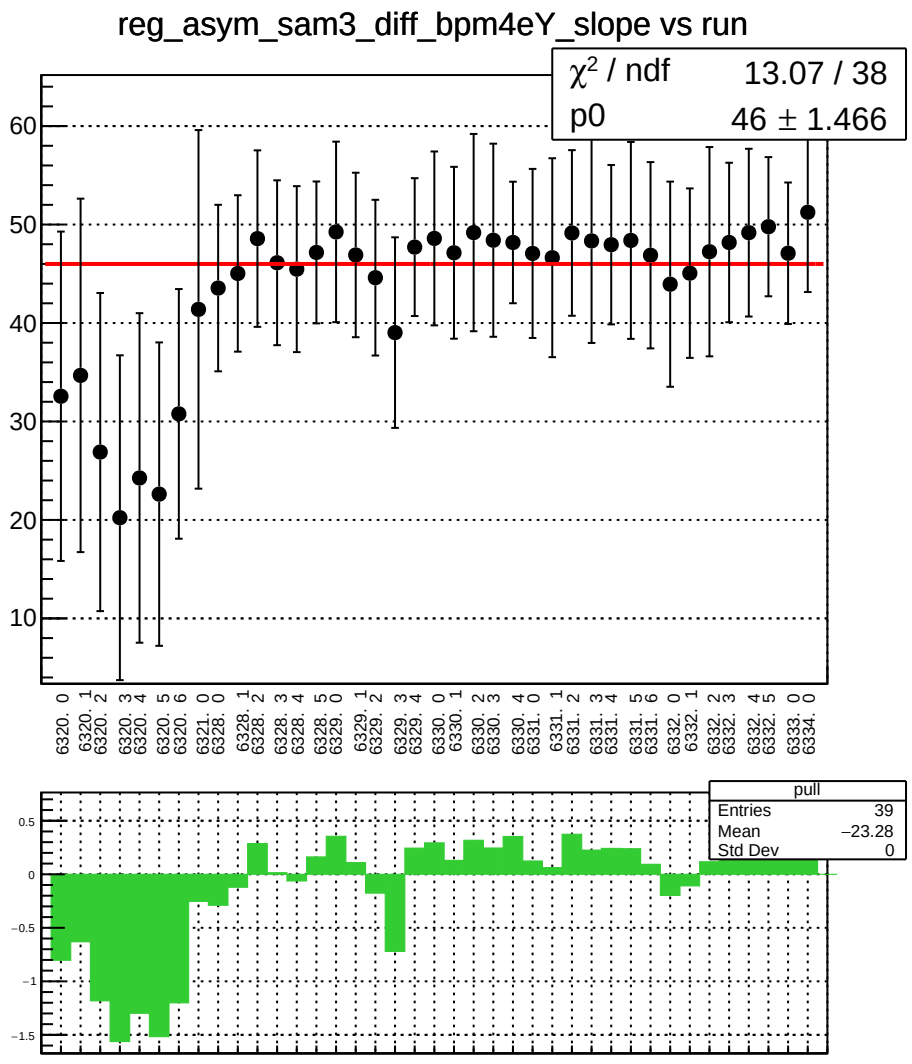

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 6.646 / 38
p0 −37.38 ± 1.856
pull
Entries 39
Mean −2547
Std Dev 0
pull1D
Entries 39
Mean −0.0004843
Std Dev 0.4128

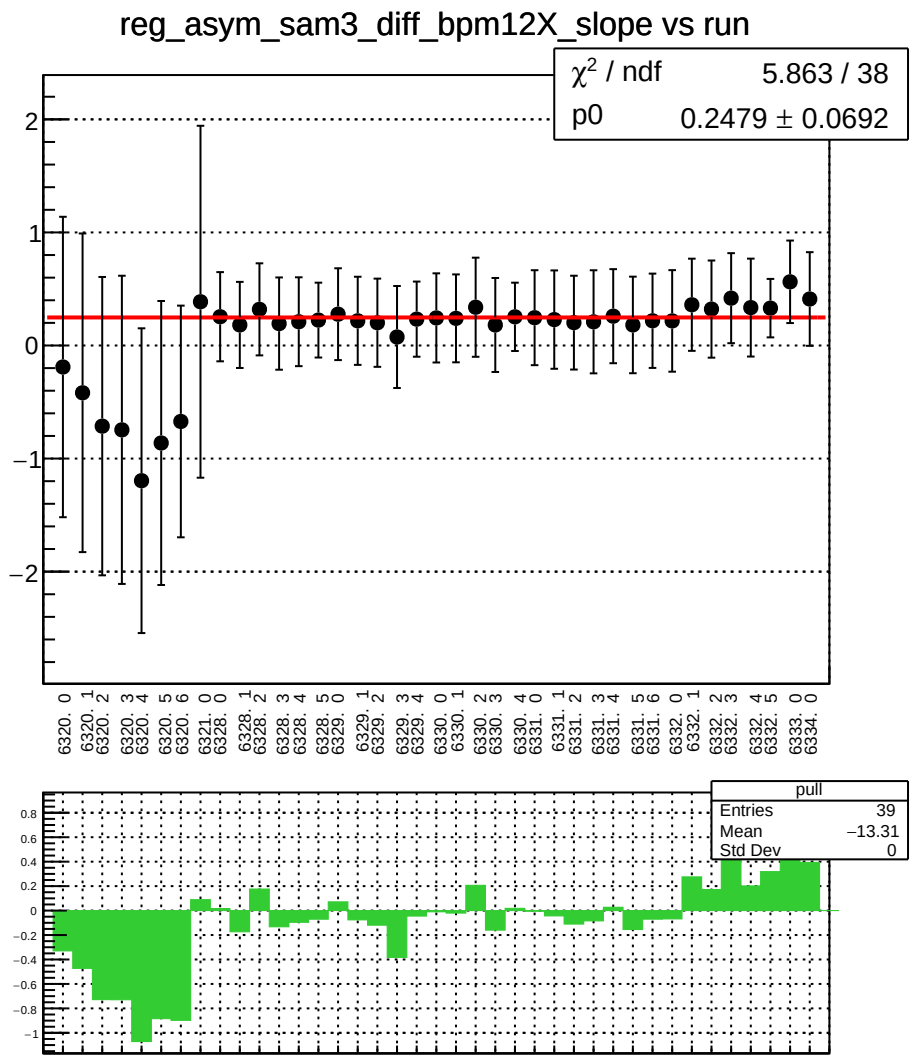

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.154 / 38
p0 −13.69 ± 1.356
pull
Entries 39
Mean −33.31
Std Dev 0

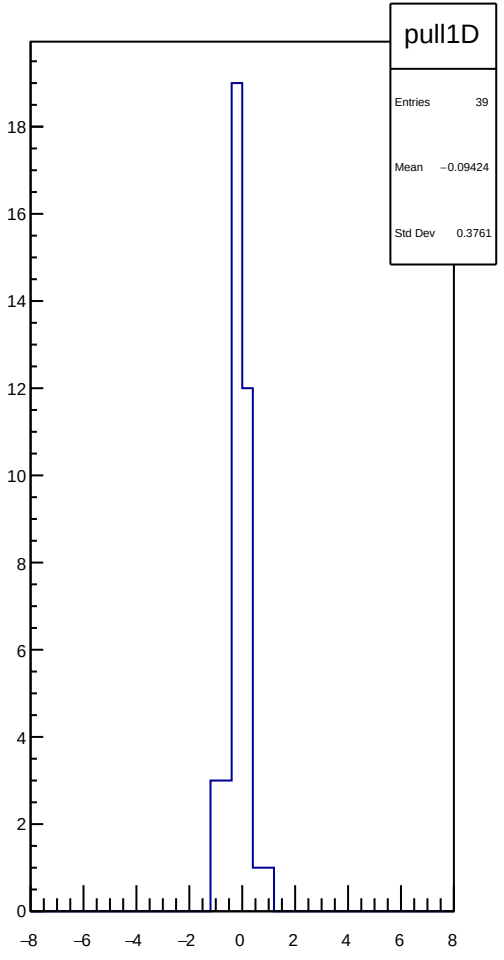

pull1D
Entries 39
Mean 0.05507
Std Dev 0.3934

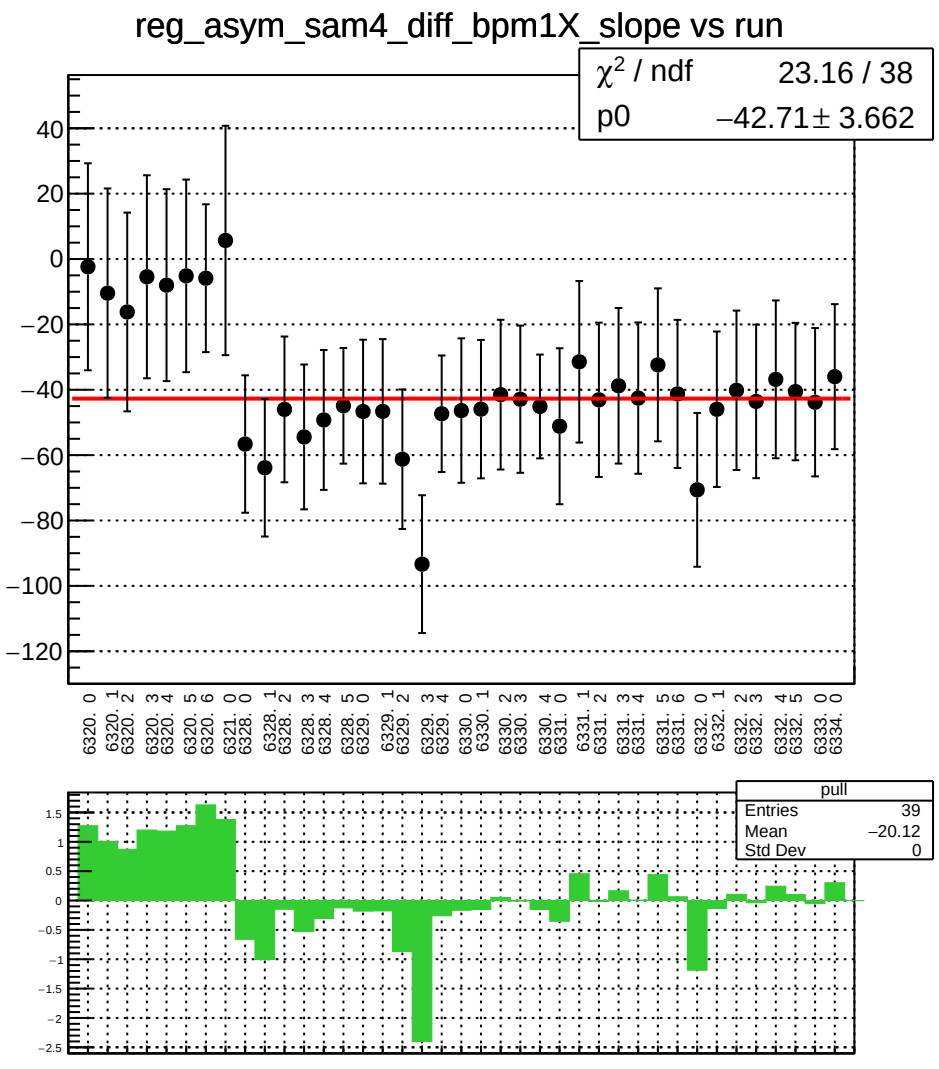

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 11.95 / 38
p0 −84.43 ± 1.952
−60
−70
−80
−90
−100
−110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −403
Std Dev 0
1.5
1
0.5
0
−0.5

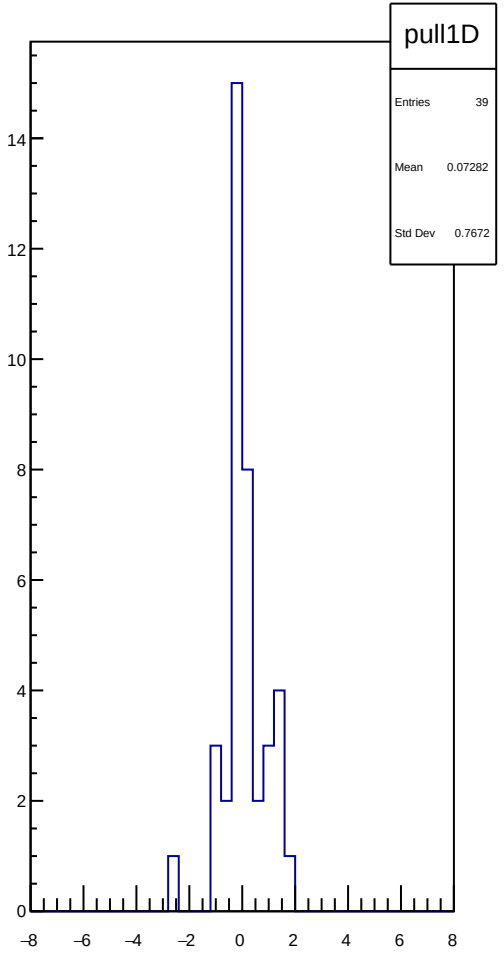

pull1D
Entries 39
Mean 0.004704
Std Dev 0.5535
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

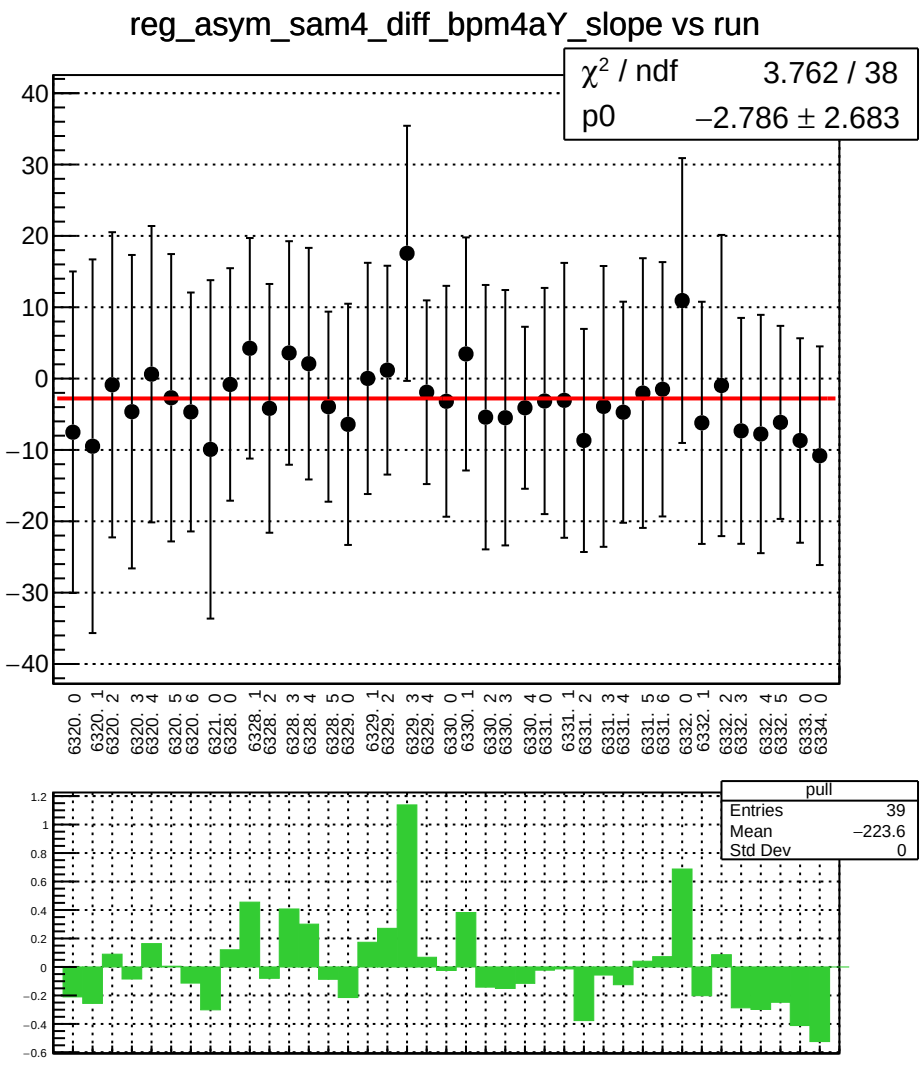

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 13.07 / 38
p0 46 ± 1.466
pull
Entries 39
Mean −23.28
Std Dev 0
pull1D
Entries 39
Mean −0.1065
Std Dev 0.569

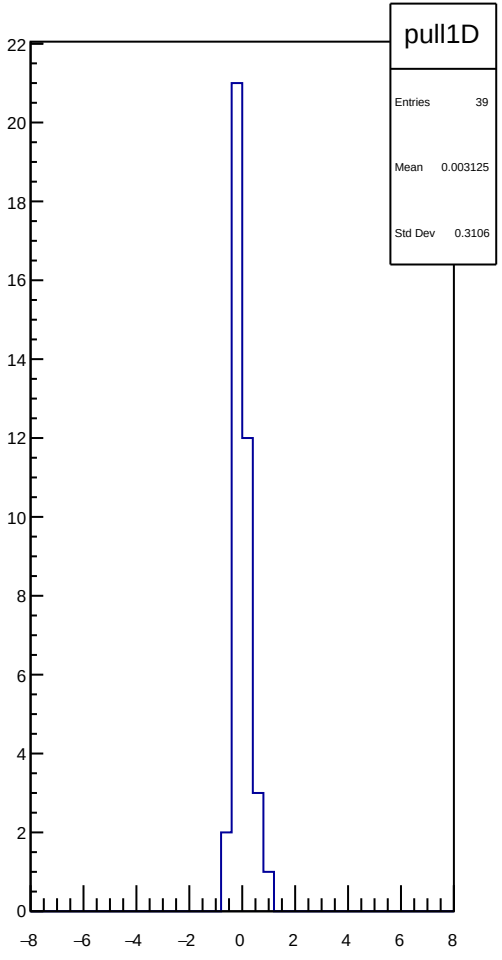

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 5.863 / 38
p0 0.2479 ± 0.0692
pull
Entries 39
Mean −13.31
Std Dev 0

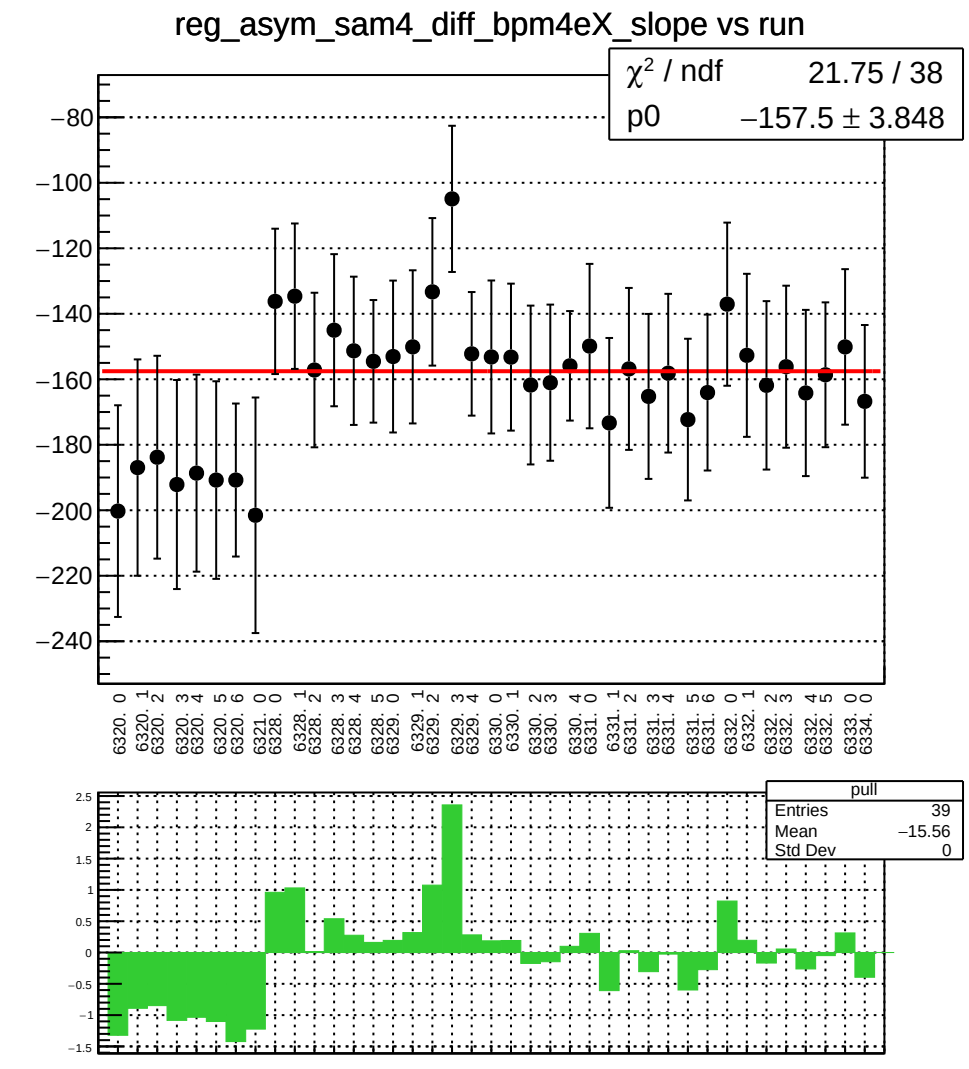

pull1D
Entries 39
Mean −0.09424
Std Dev 0.3761

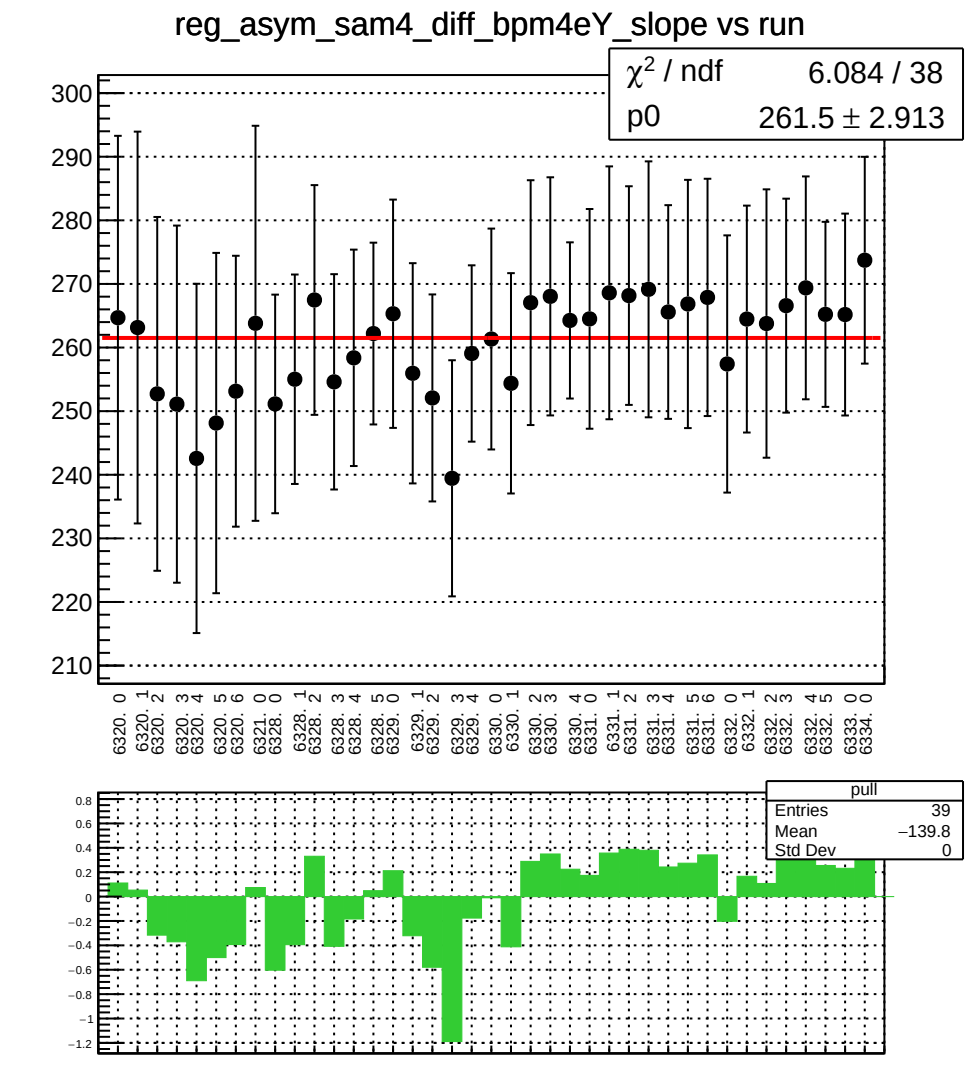

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 23.16 / 38
p0 −42.71 ± 3.662
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

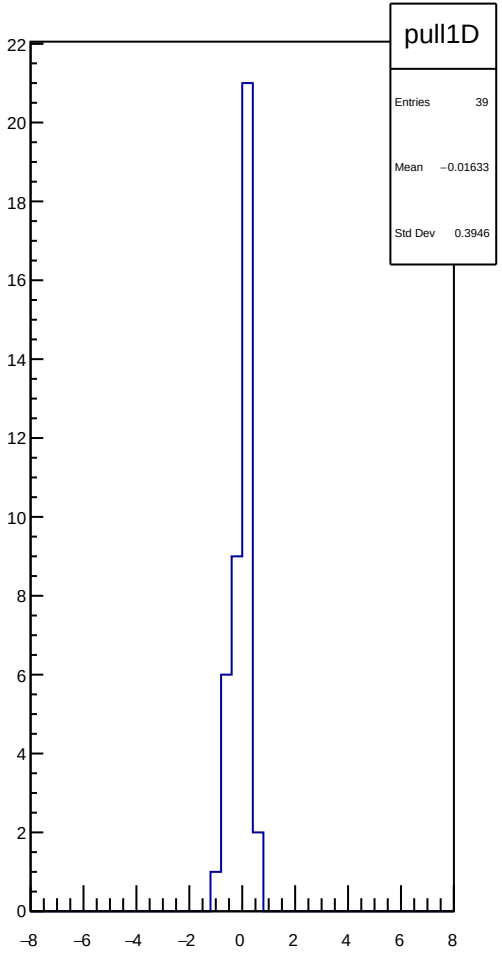

pull1D
Entries 39
Mean 0.07282
Std Dev 0.7672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

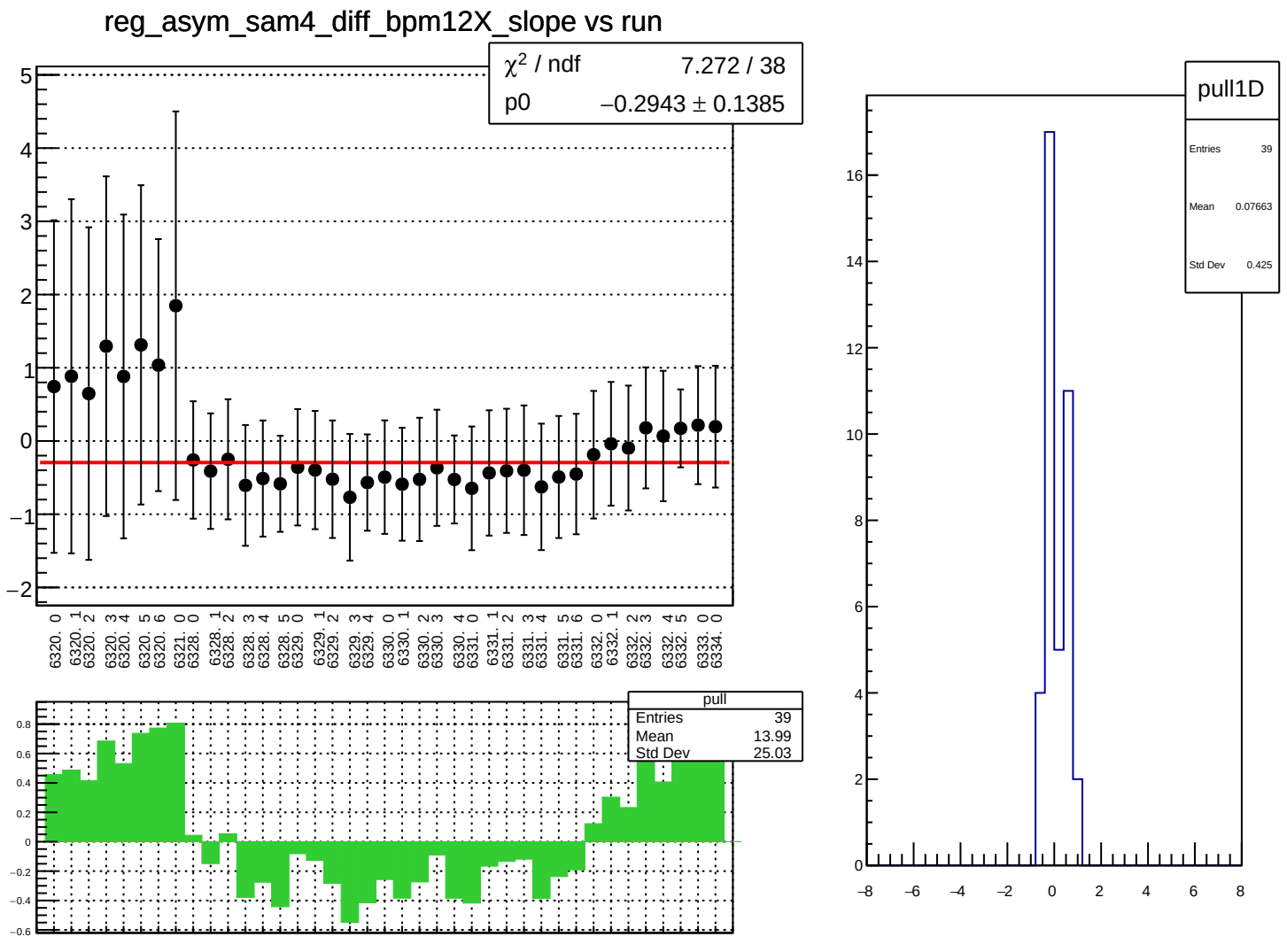

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.762 / 38
p0 −2.786 ± 2.683
pull
Entries 39
Mean −223.6
Std Dev 0

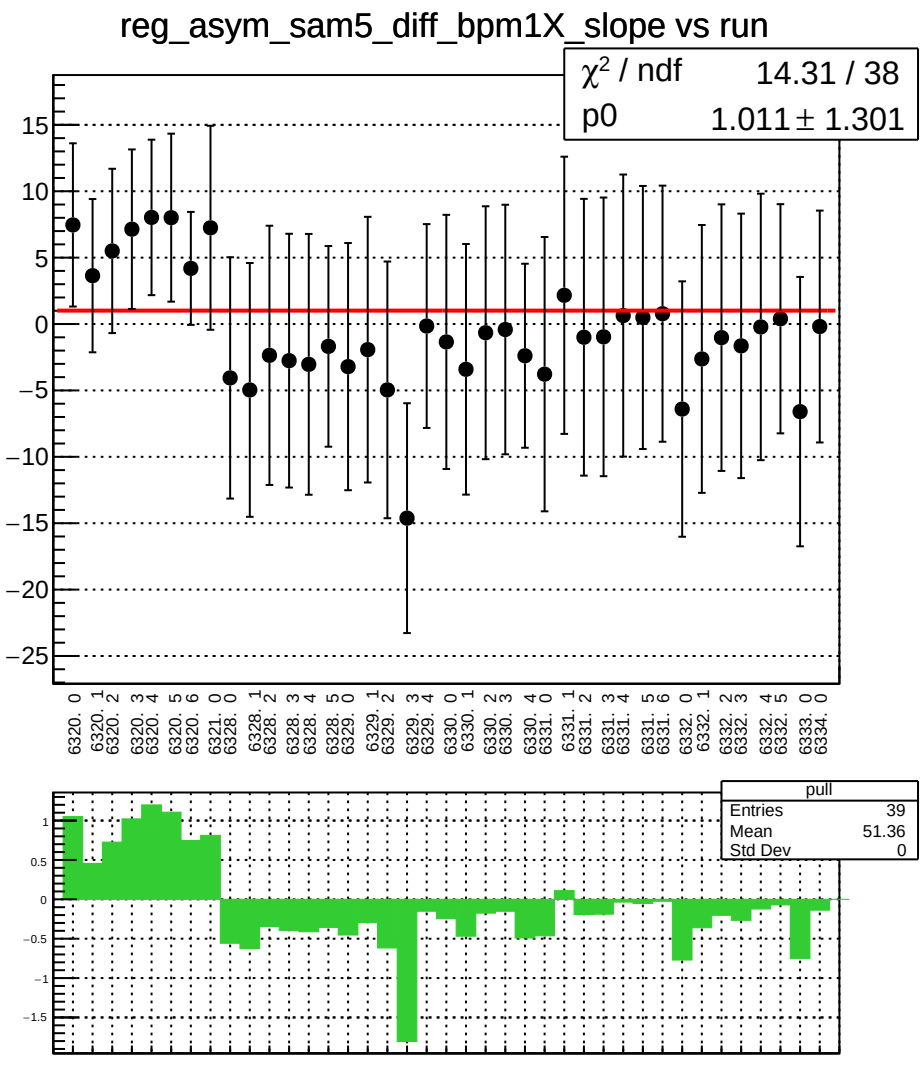

pull1D
Entries 39
Mean 0.003125
Std Dev 0.3106

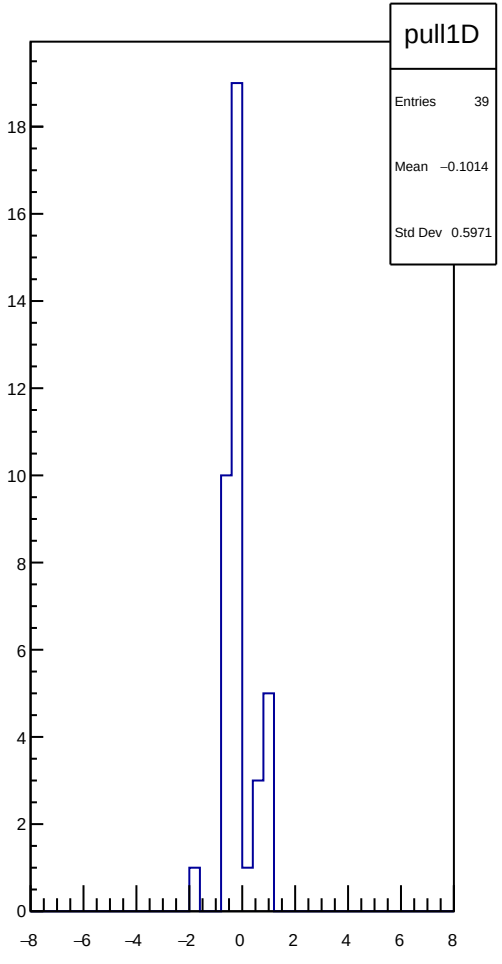

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 21.75 / 38
p0 −157.5 ± 3.848
pull
Entries 39
Mean −15.56
Std Dev 0
pull1D
Entries 39
Mean −0.06473
Std Dev 0.7439

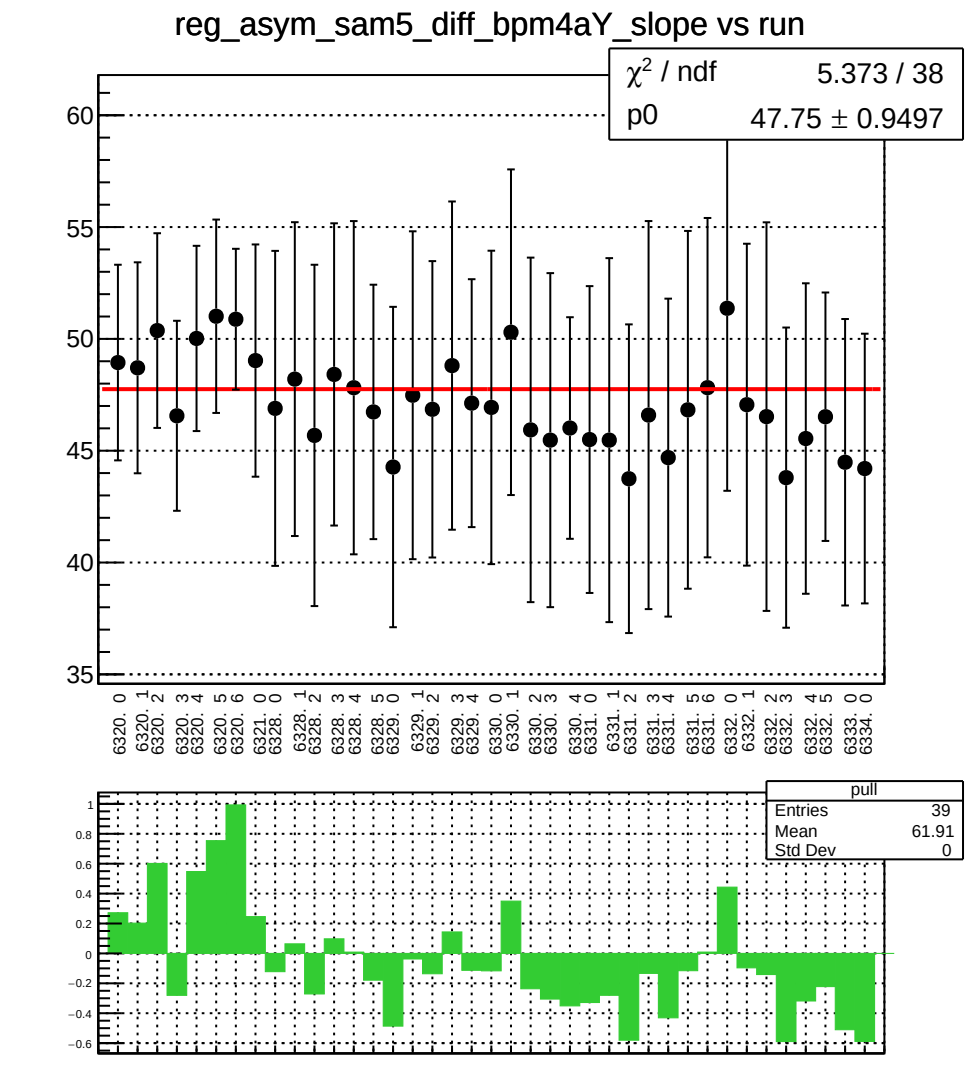

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 6.084 / 38
p0 261.5 ± 2.913
300
290
280
270
260
250
240
230
220
210
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −139.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

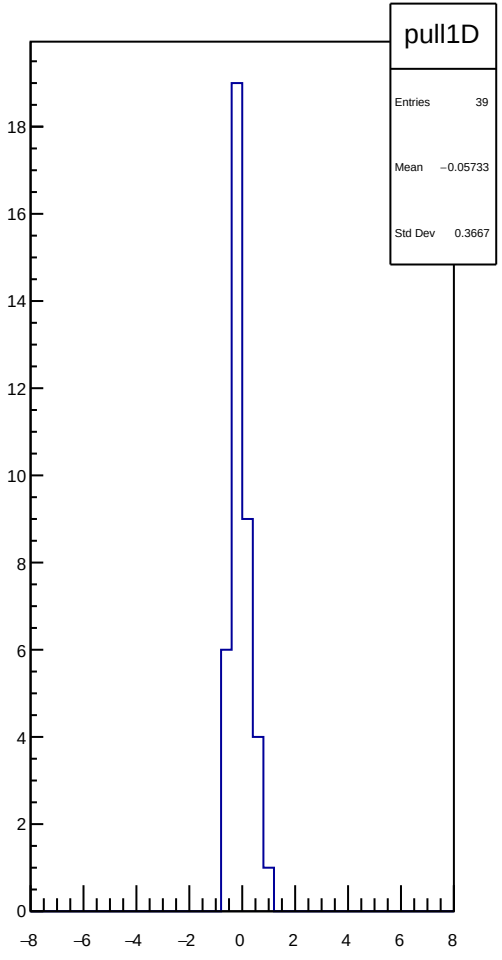

pull1D
Entries 39
Mean −0.01633
Std Dev 0.3946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

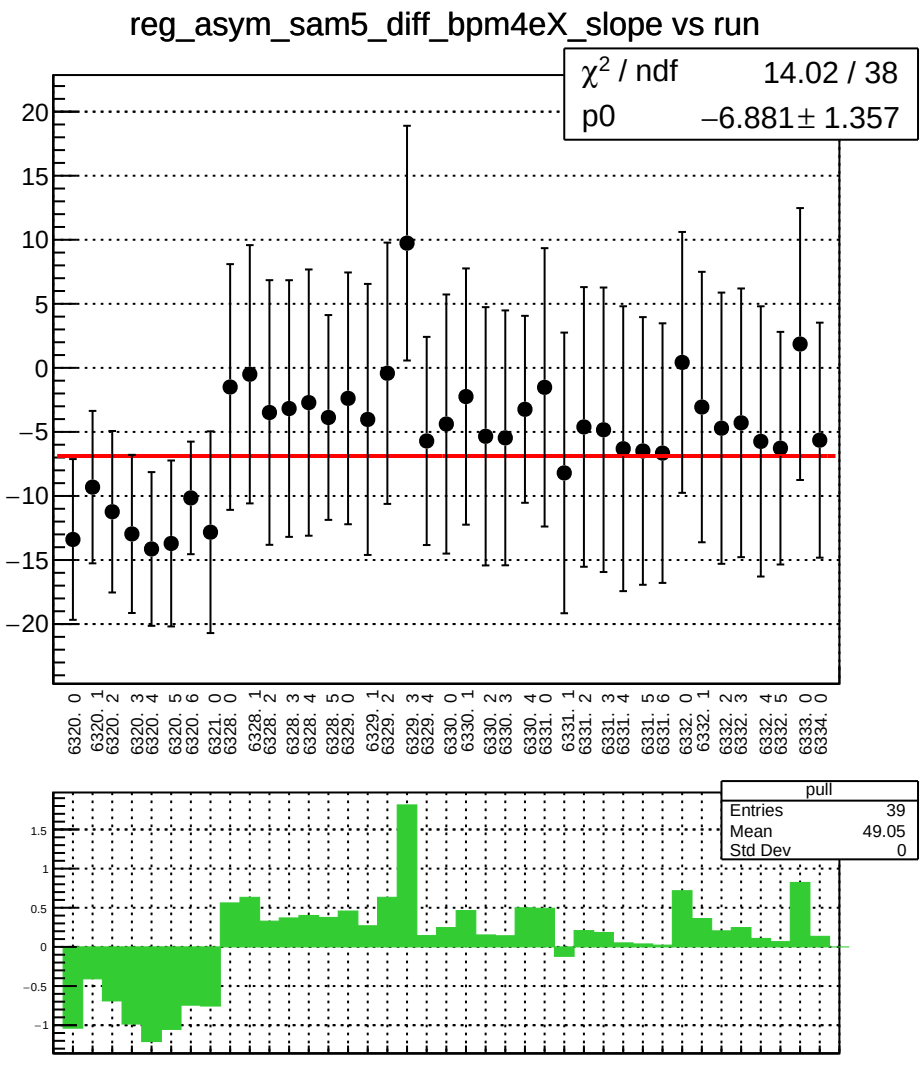

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 7.272 / 38
p0 −0.2943 ± 0.1385
pull
Entries 39
Mean 13.99
Std Dev 25.03
pull1D
Entries 39
Mean 0.07663
Std Dev 0.425

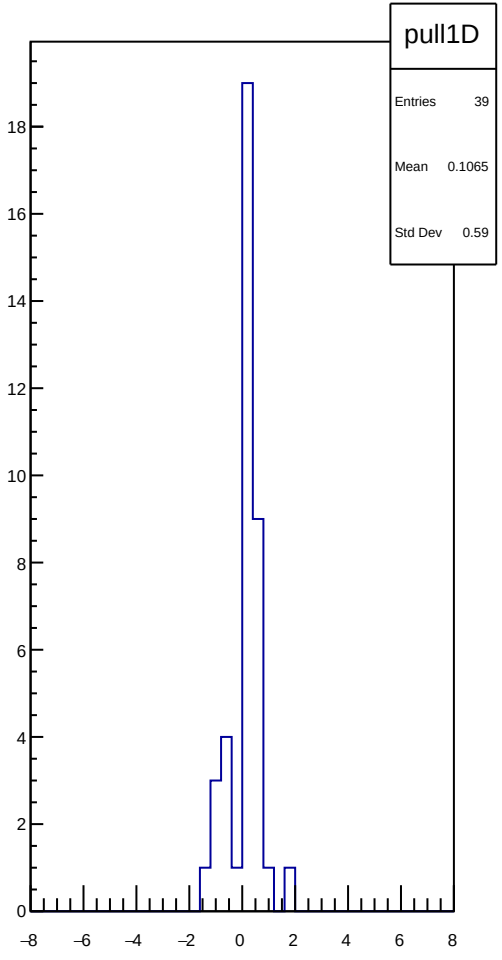

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 14.31 / 38
p0 1.011 ± 1.301
pull
Entries 39
Mean 51.36
Std Dev 0

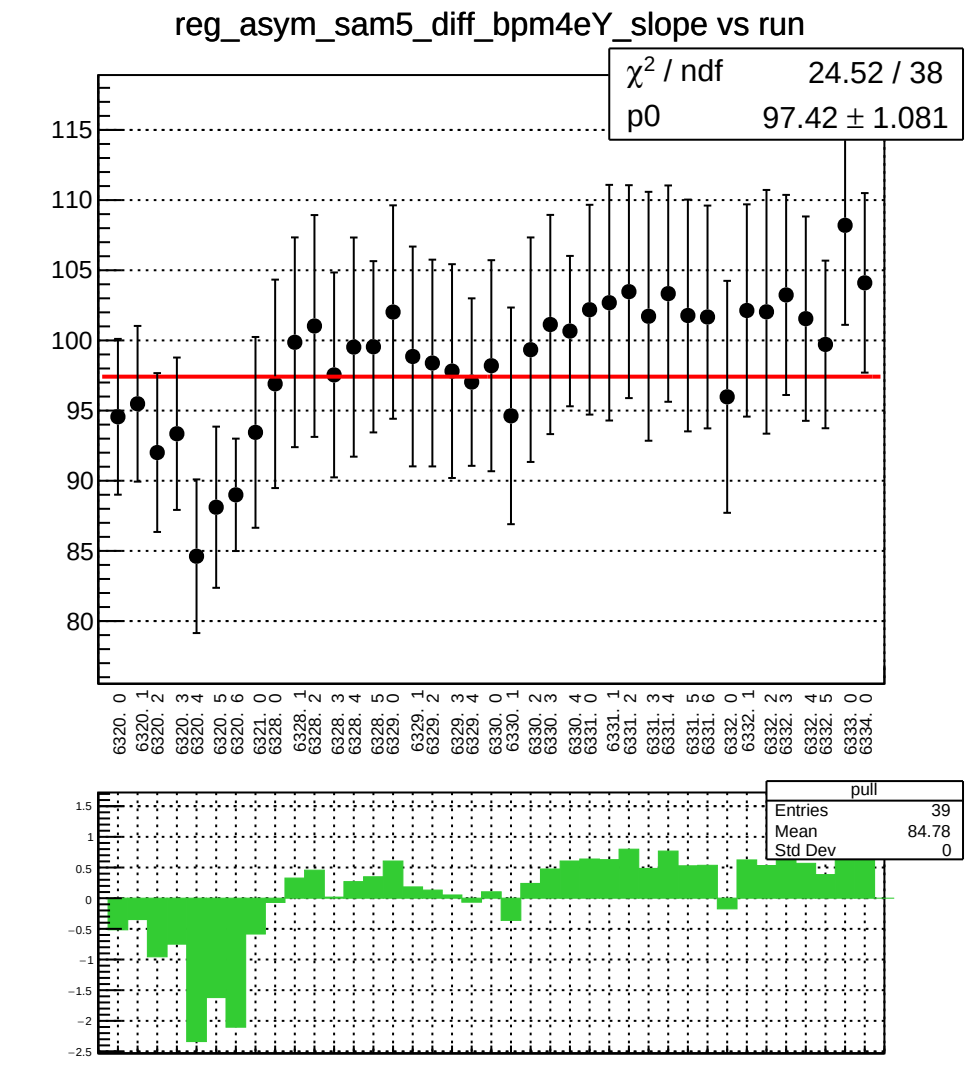

pull1D
Entries 39
Mean −0.1014
Std Dev 0.5971

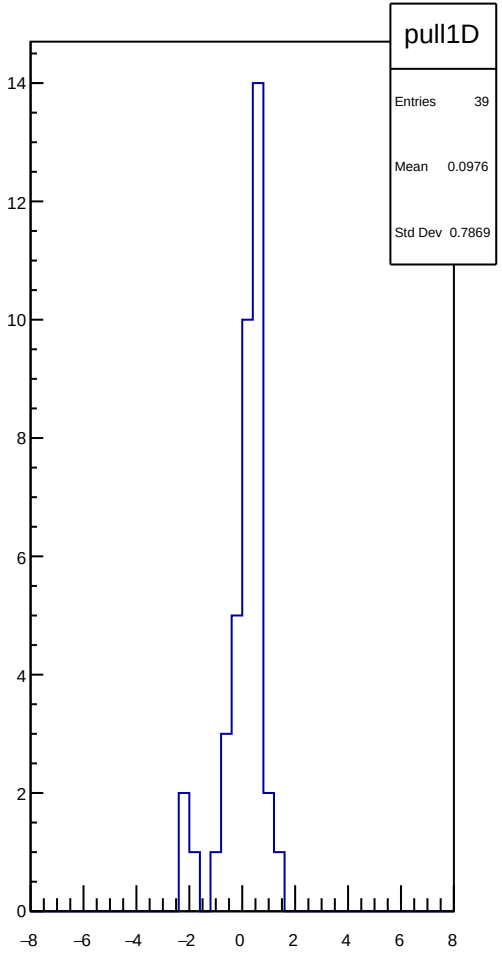

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 5.373 / 38
p0 47.75 ± 0.9497
pull
Entries 39
Mean 61.91
Std Dev 0

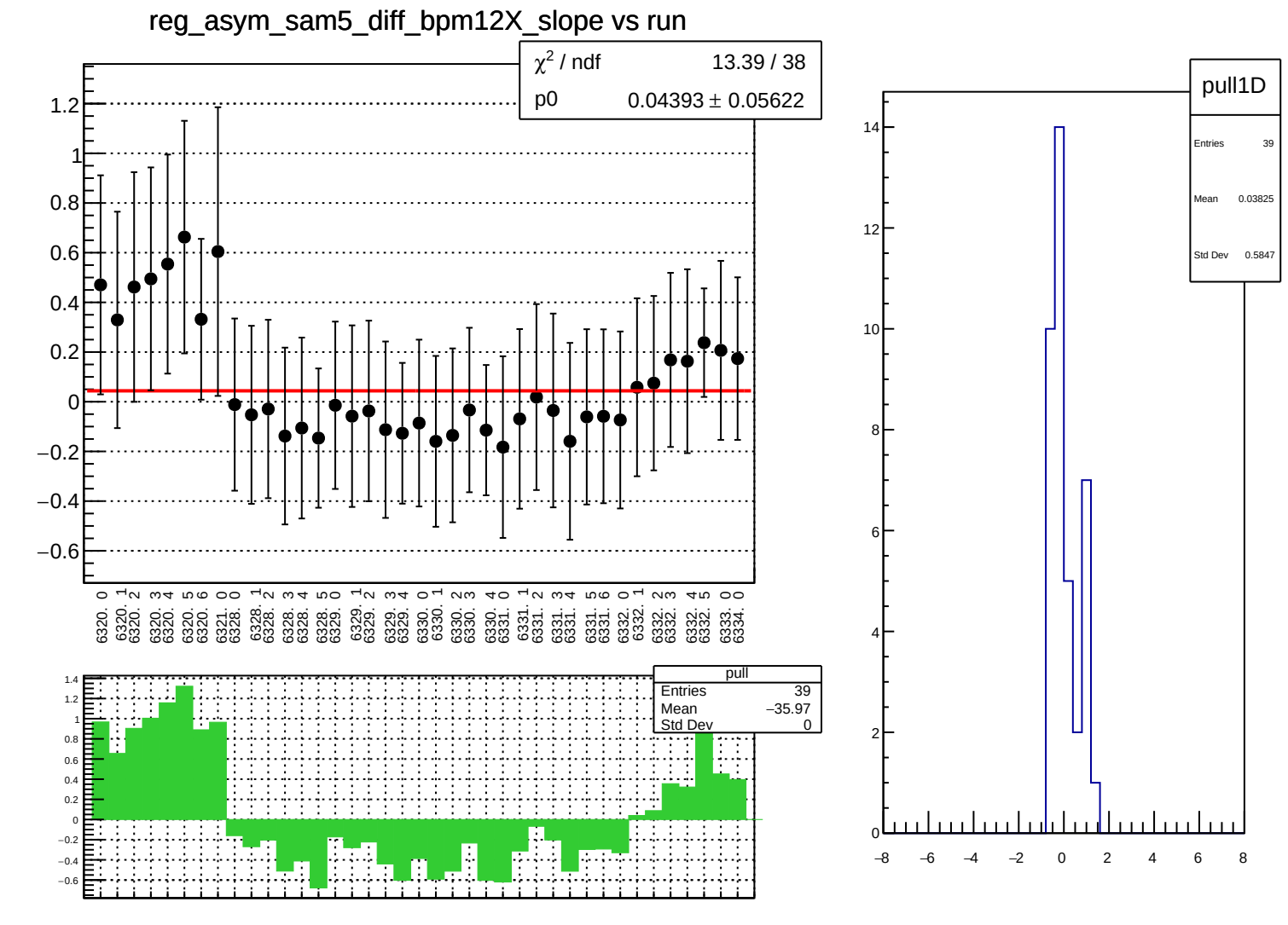

pull1D
Entries 39
Mean −0.05733
Std Dev 0.3667

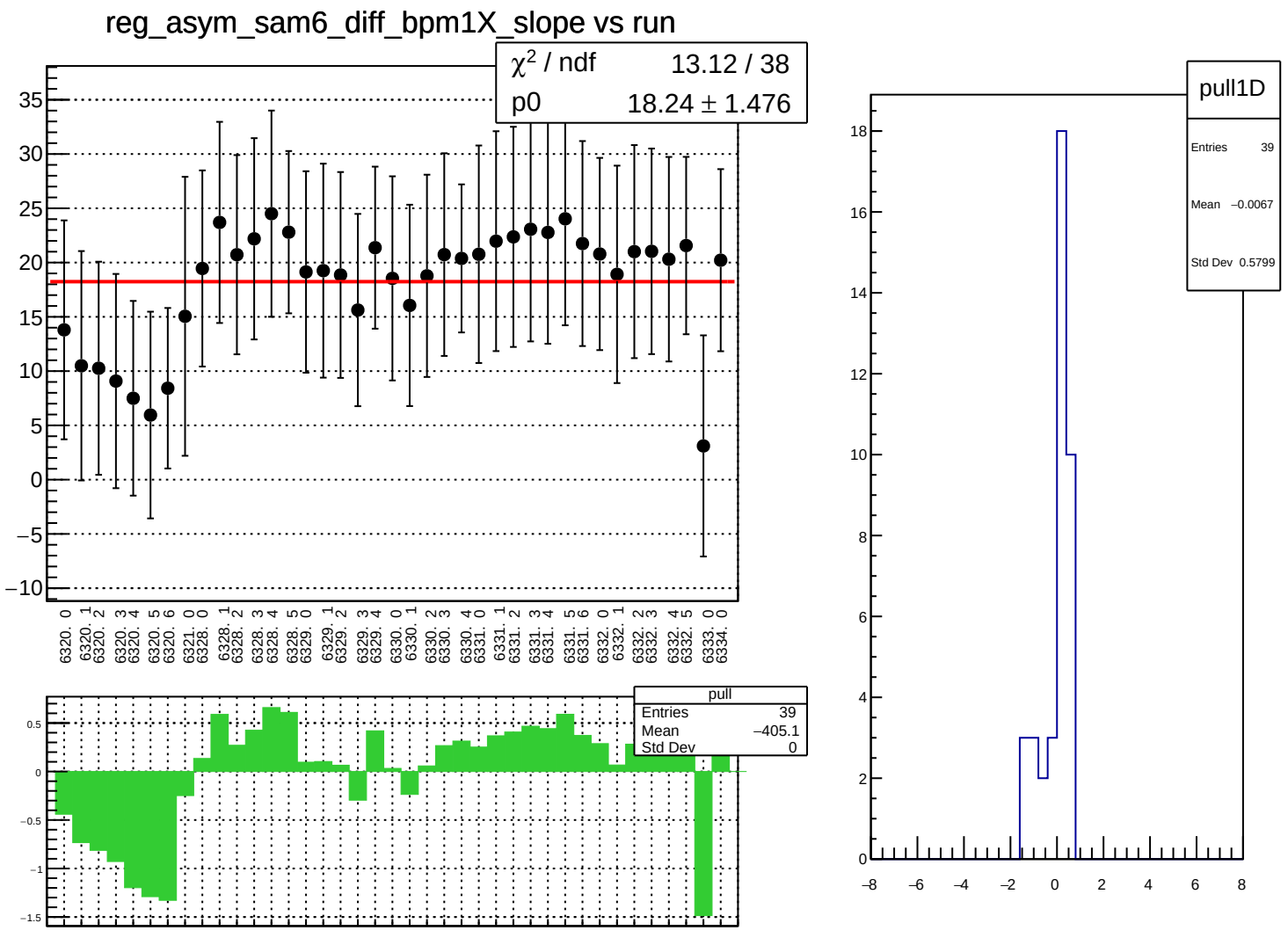

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 14.02 / 38
p0 −6.881± 1.357
pull
Entries 39
Mean 49.05
Std Dev 0

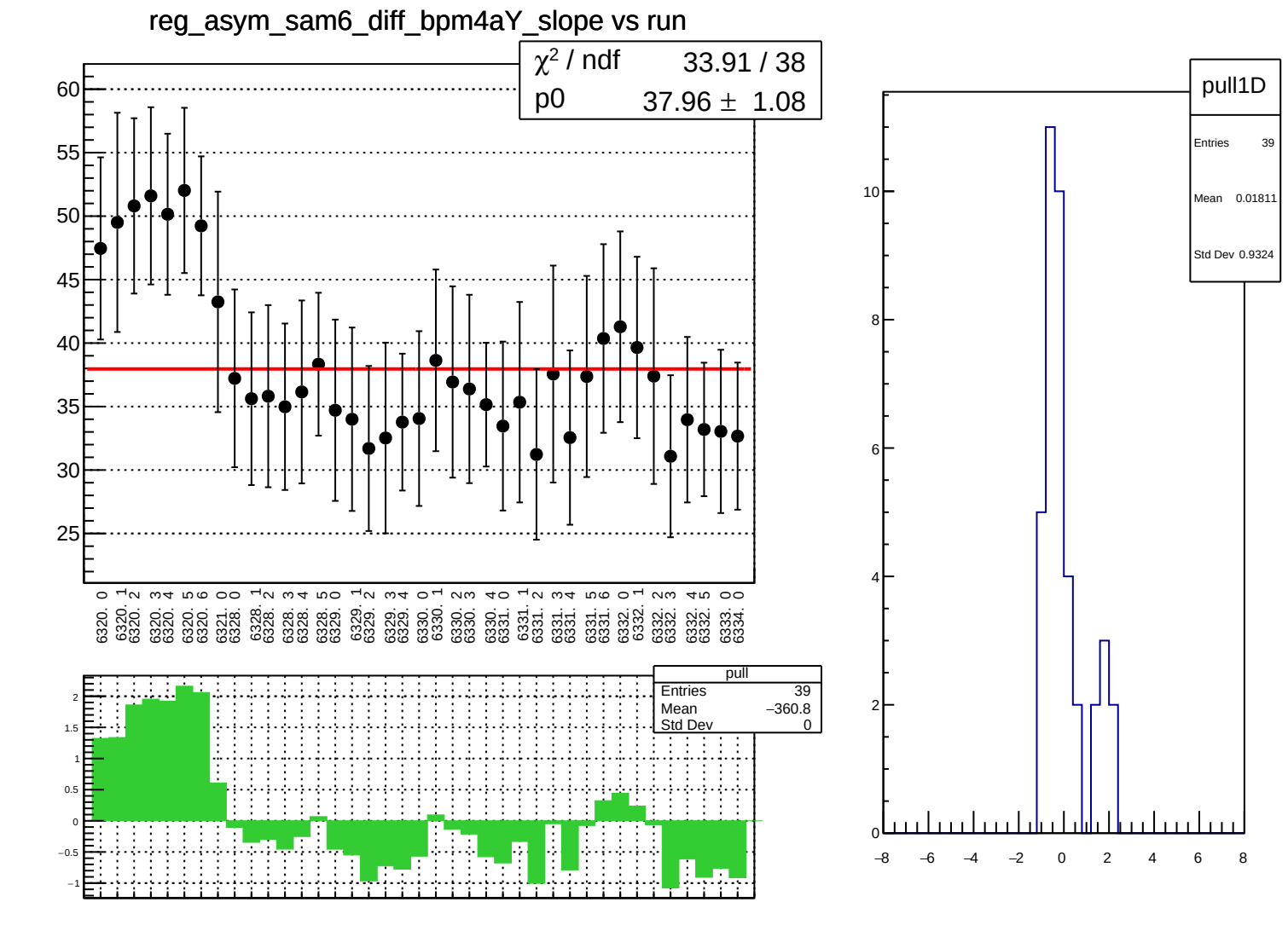

pull1D
Entries 39
Mean 0.1065
Std Dev 0.59

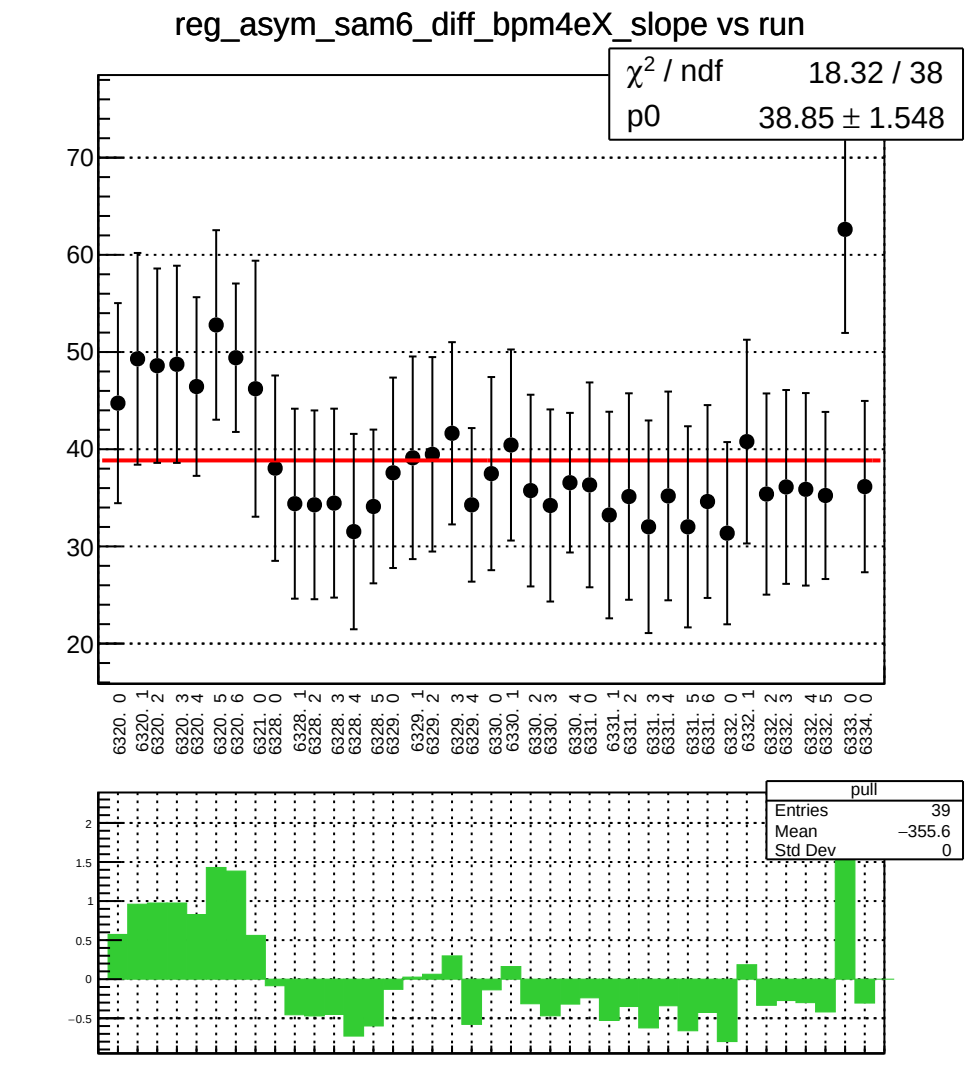

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 24.52 / 38
p0 97.42 ± 1.081
pull
Entries 39
Mean 84.78
Std Dev 0

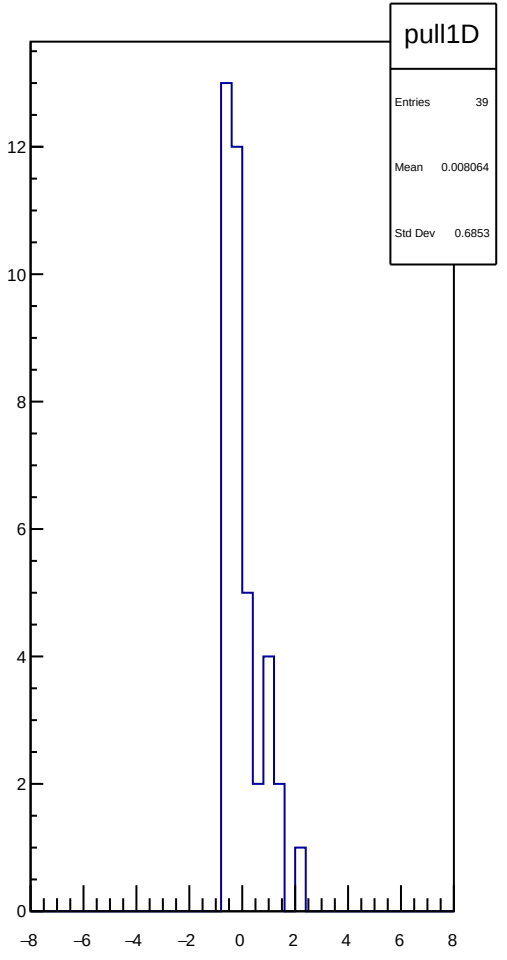

pull1D
Entries 39
Mean 0.0976
Std Dev 0.7869

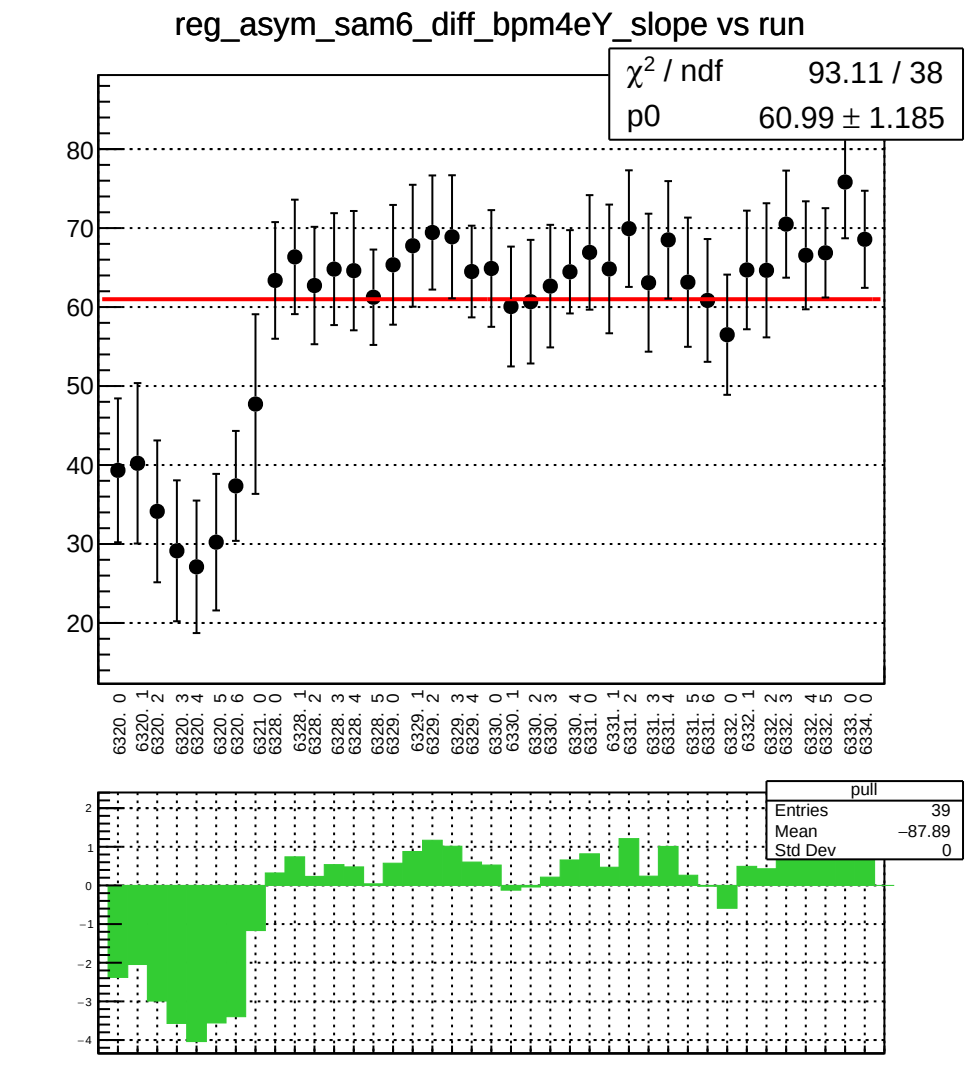

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.39 / 38
p0 0.04393 ± 0.05622
pull
Entries 39
Mean −35.97
Std Dev 0
pull1D
Entries 39
Mean 0.03825
Std Dev 0.5847

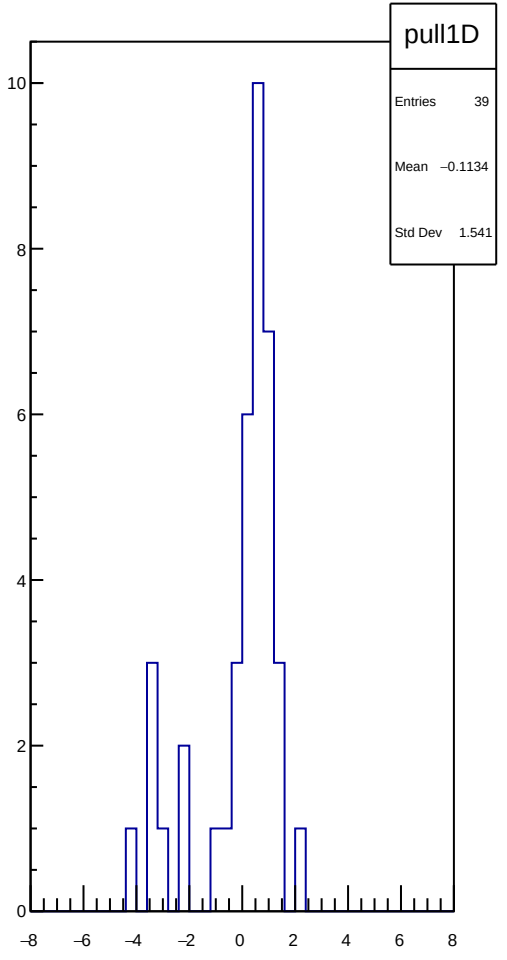

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 13.12 / 38
p0 18.24 ± 1.476
pull
Entries 39
Mean −405.1
Std Dev 0
pull1D
Entries 39
Mean −0.0067
Std Dev 0.5799

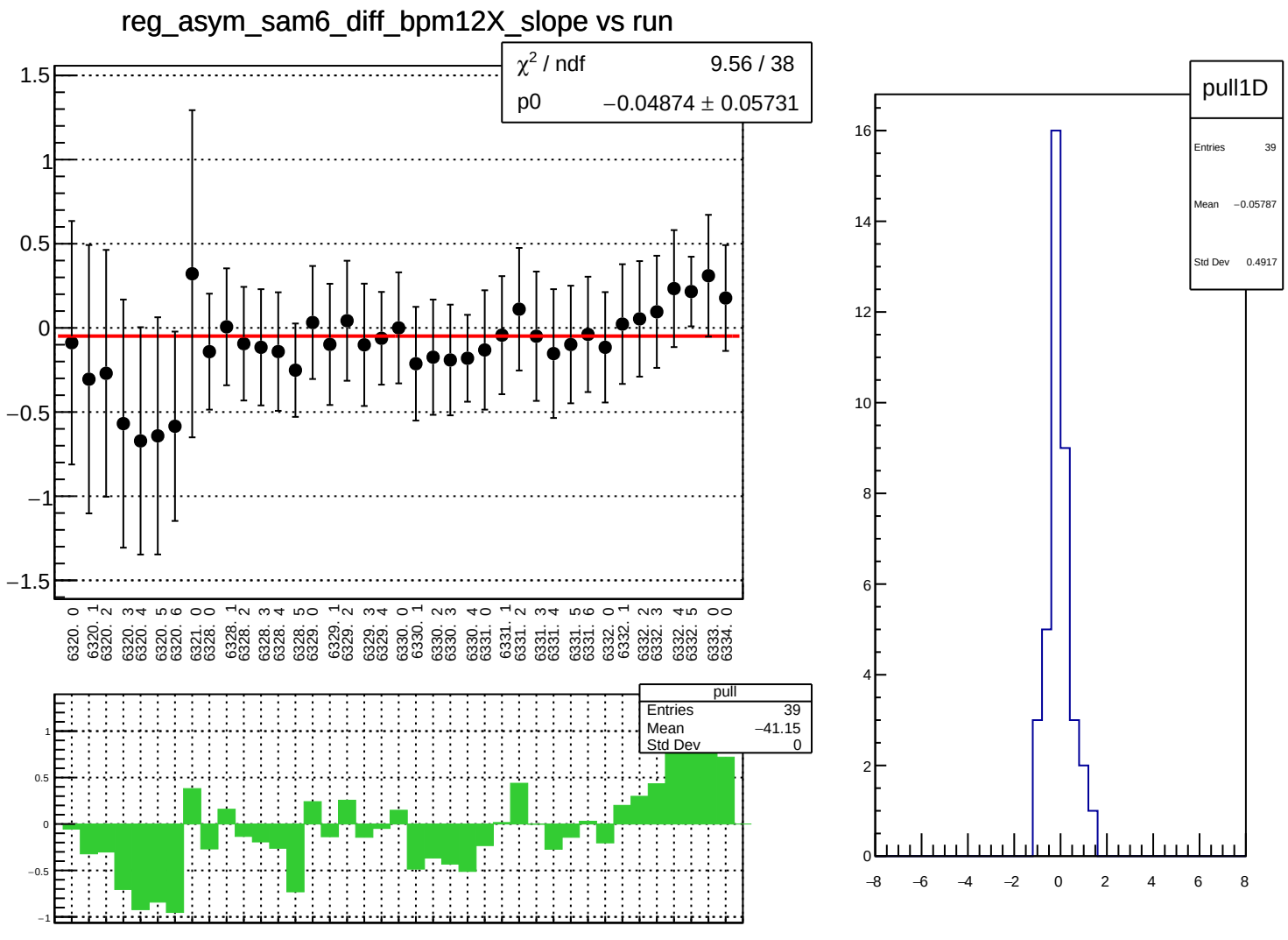

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 33.91 / 38
p0 37.96 ± 1.08
60
55
50
45
40
35
30
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −360.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.01811
Std Dev 0.9324
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

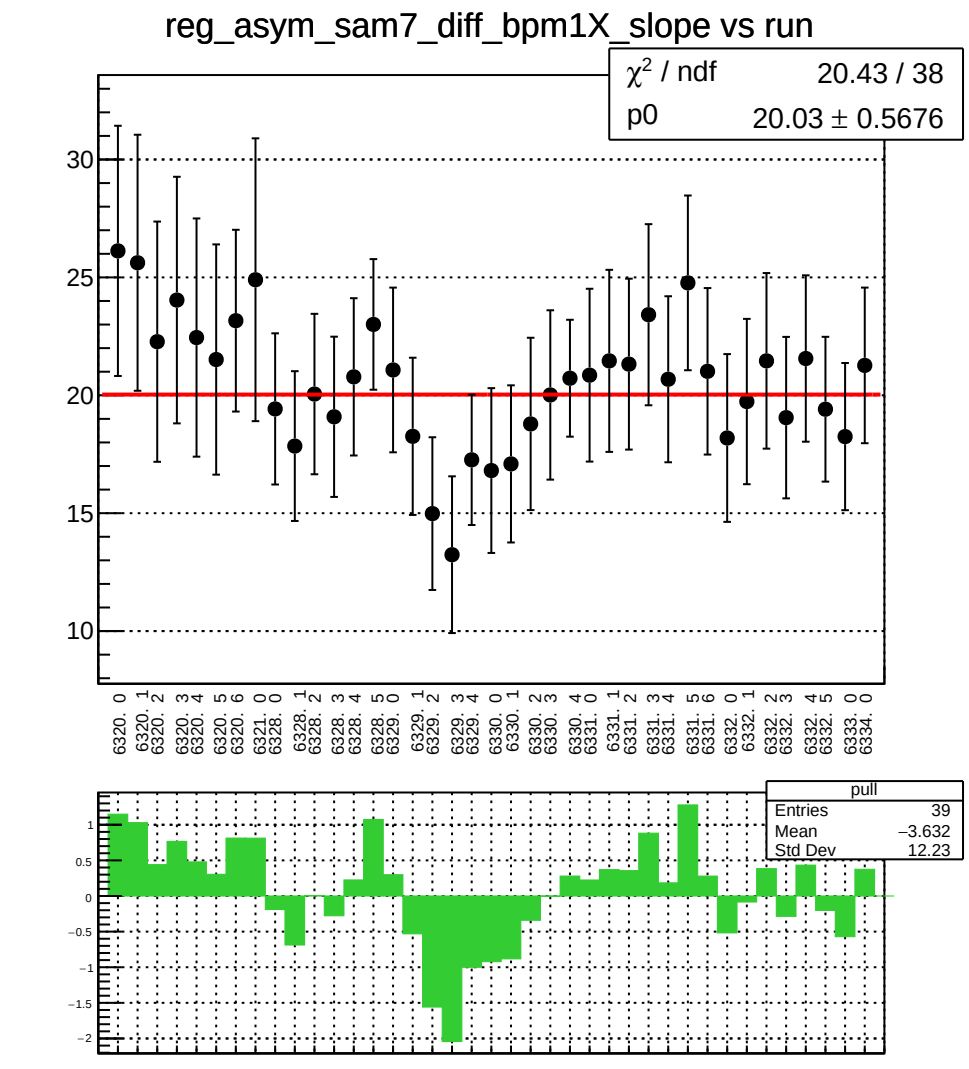

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 18.32 / 38
p0 38.85 ± 1.548
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −355.6
Std Dev 0
2
1.5
1
0.5
0
−0.5

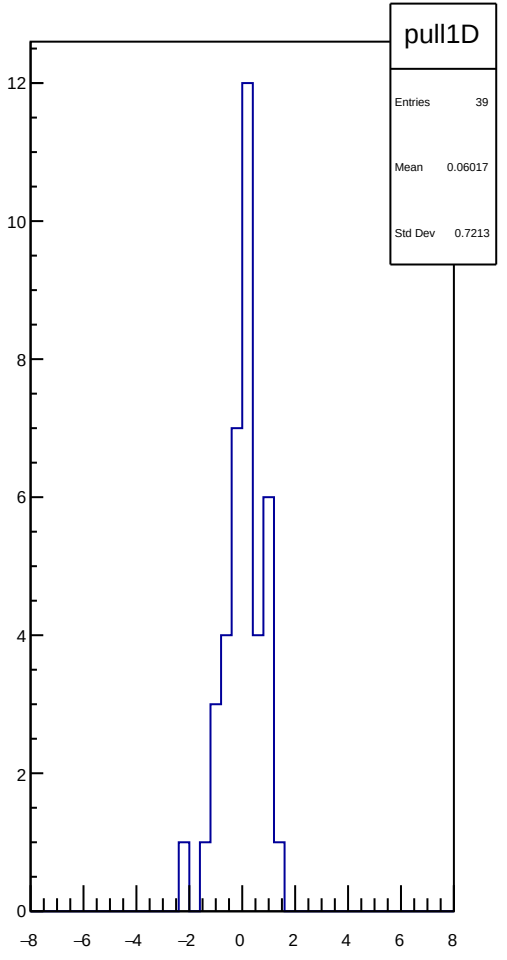

pull1D
Entries 39
Mean 0.008064
Std Dev 0.6853
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

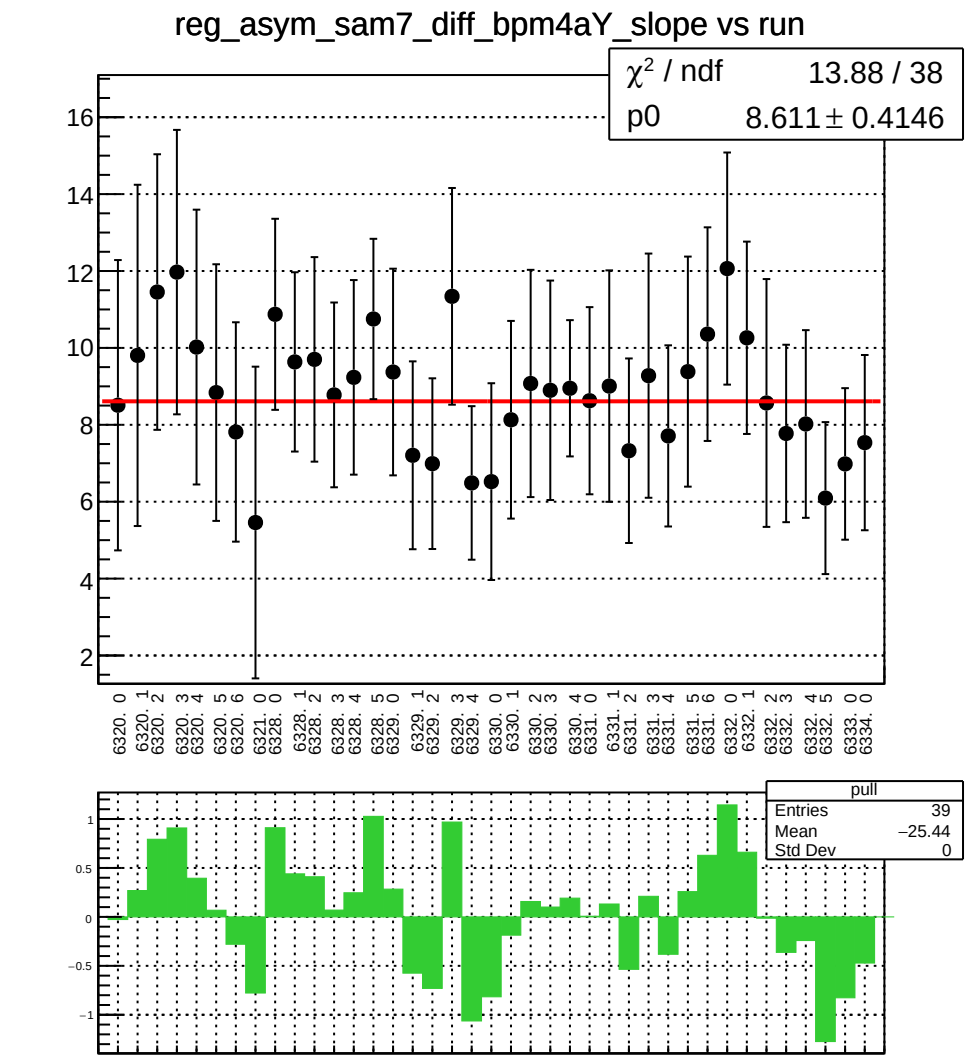

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 93.11 / 38
p0 60.99 ± 1.185
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −87.89
Std Dev 0
2
1
0
−1
−2
−3
−4

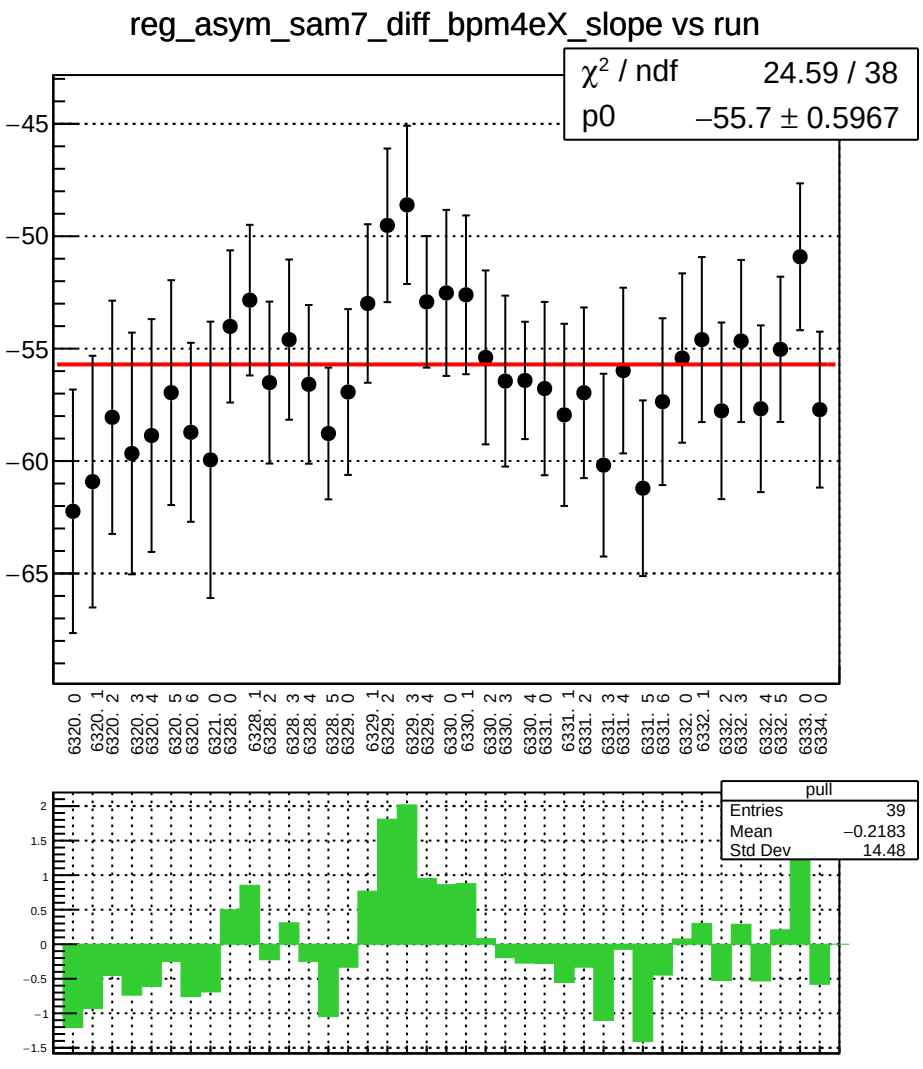

pull1D
Entries 39
Mean −0.1134
Std Dev 1.541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

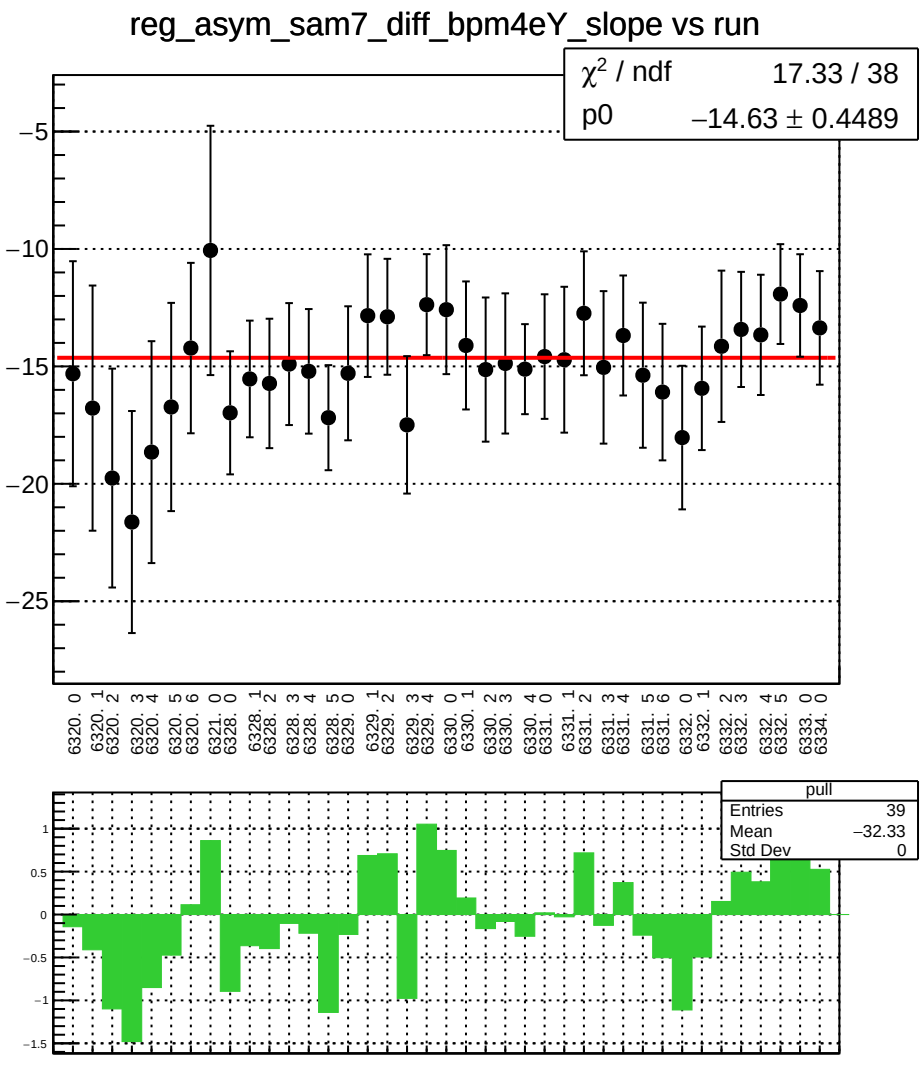

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.56 / 38
p0 −0.04874 ± 0.05731
pull
Entries 39
Mean −41.15
Std Dev 0
pull1D
Entries 39
Mean −0.05787
Std Dev 0.4917

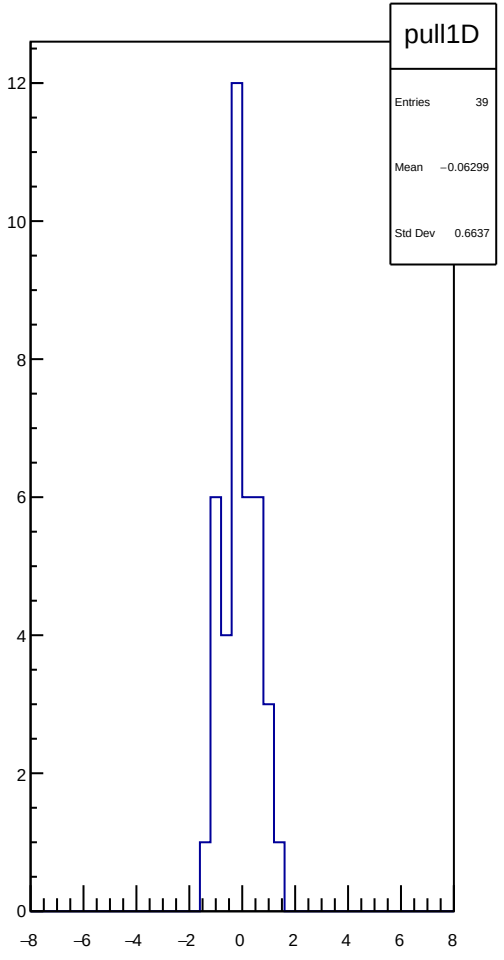

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 20.43 / 38
p0 20.03 ± 0.5676
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.632
Std Dev 12.23
1
0.5
0
−0.5
−1
−1.5
−2

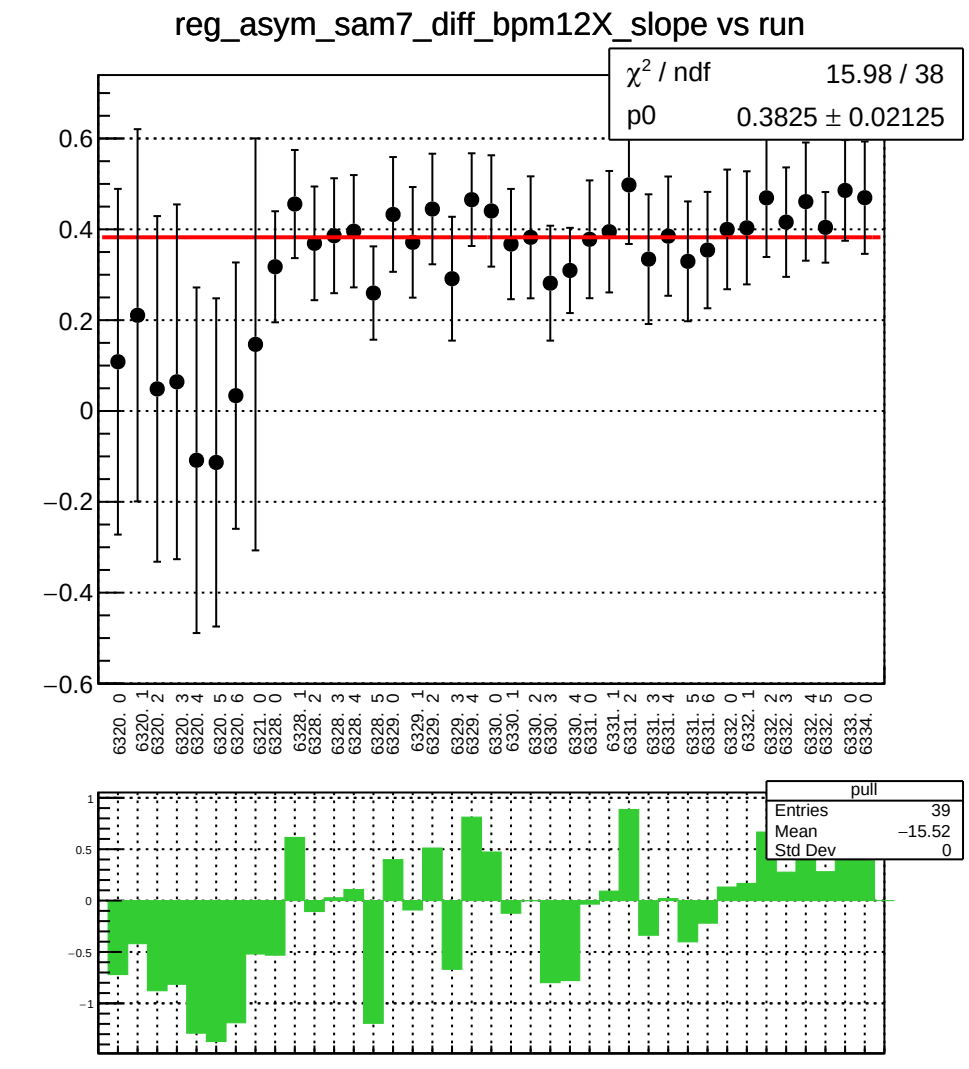

pull1D
Entries 39
Mean 0.06017
Std Dev 0.7213
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

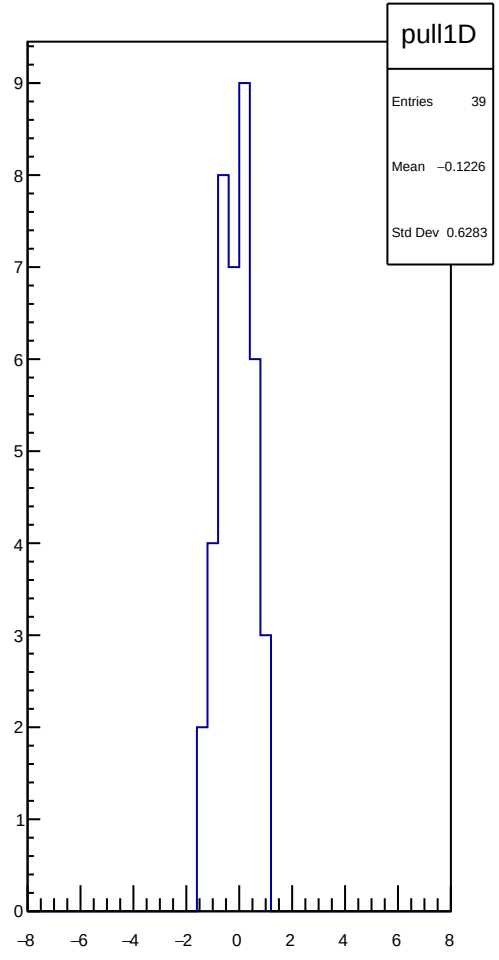

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 13.88 / 38
p0 8.611 ± 0.4146
pull
Entries 39
Mean −25.44
Std Dev 0
pull1D
Entries 39
Mean 0.04407
Std Dev 0.595

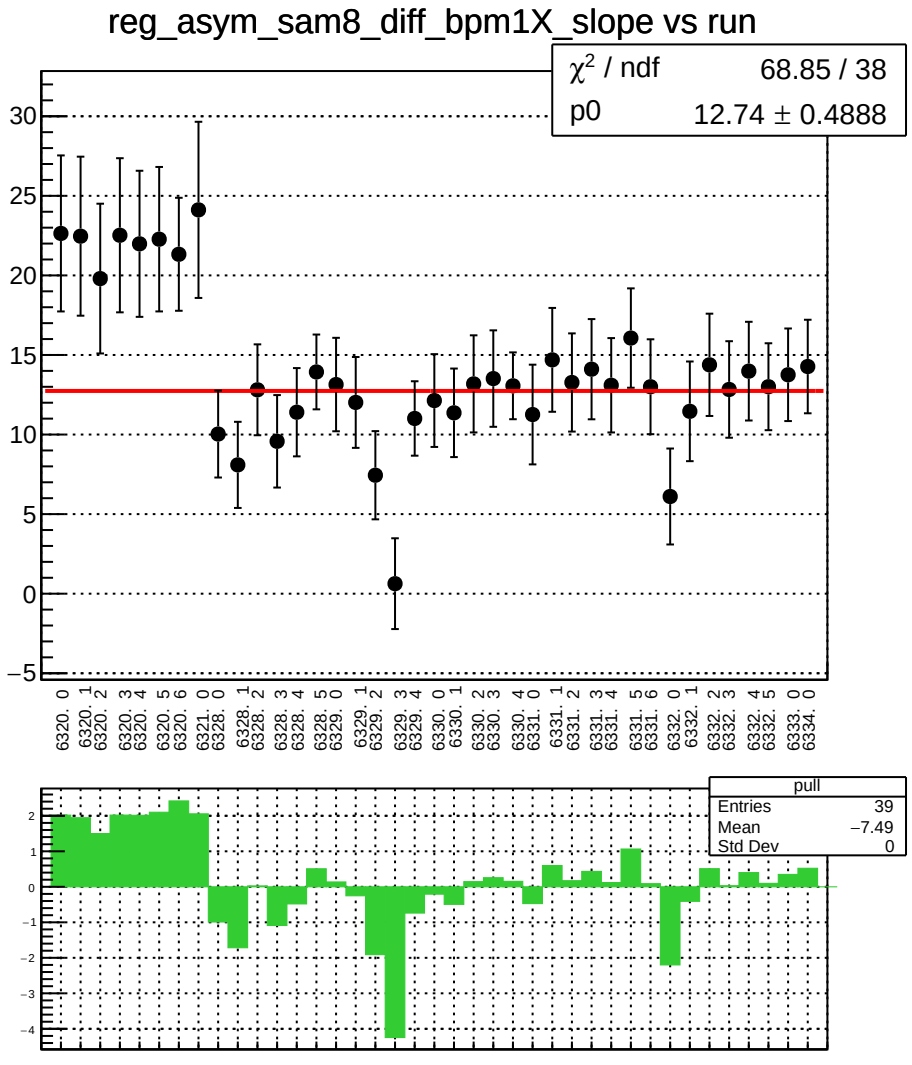

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 24.59 / 38
p0 −55.7 ± 0.5967
−45
−50
−55
−60
−65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −0.2183
Std Dev 14.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.06211
Std Dev 0.7917
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

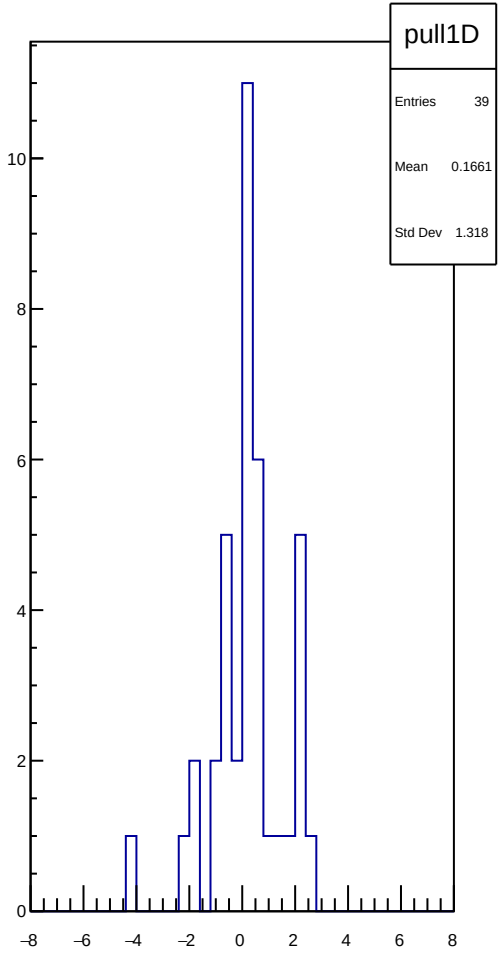

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 17.33 / 38
p0 −14.63 ± 0.4489
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.33
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

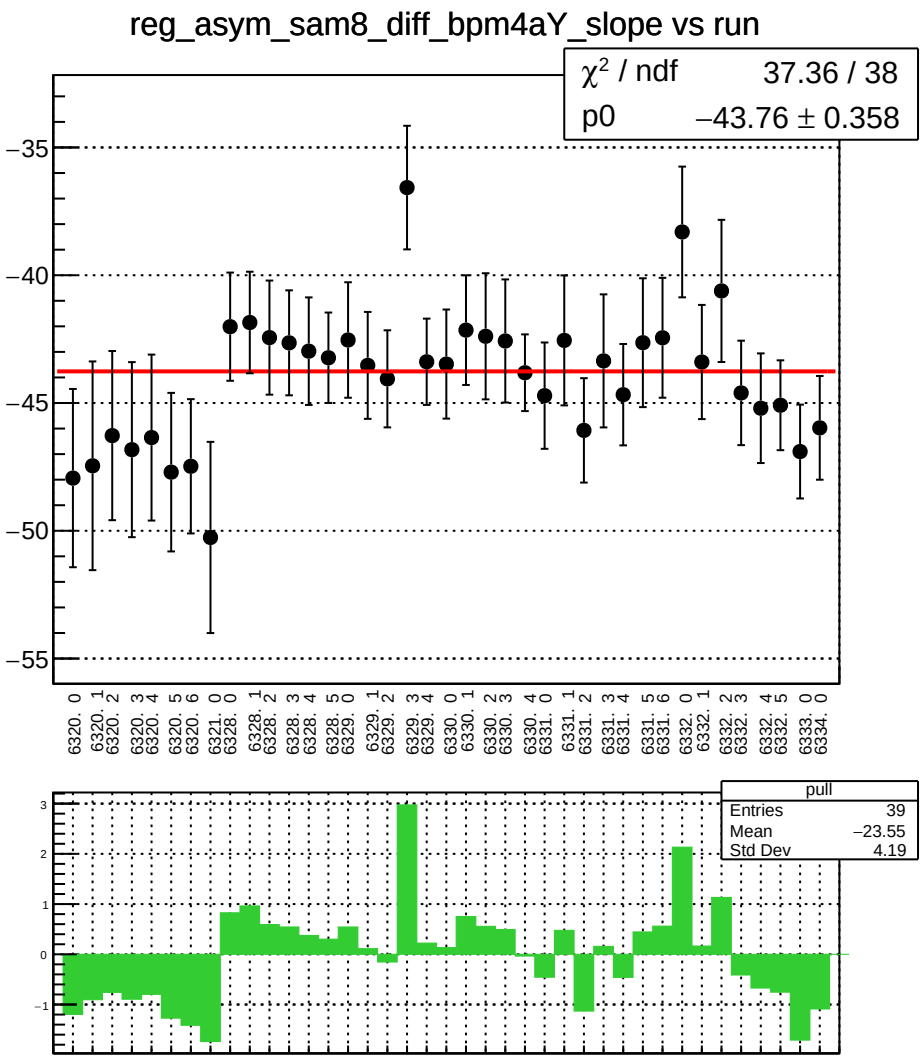

pull1D
Entries 39
Mean −0.06299
Std Dev 0.6637
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

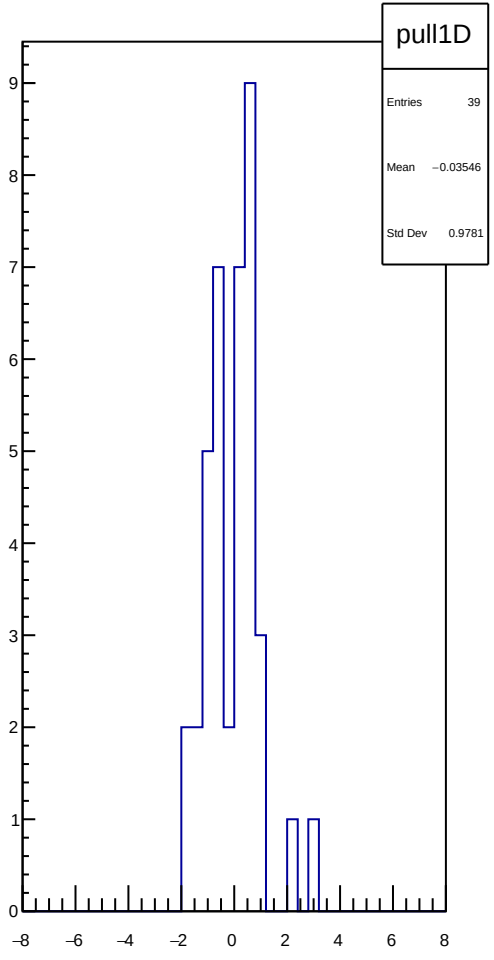

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 15.98 / 38
p0 0.3825 ± 0.02125
pull
Entries 39
Mean −15.52
Std Dev 0

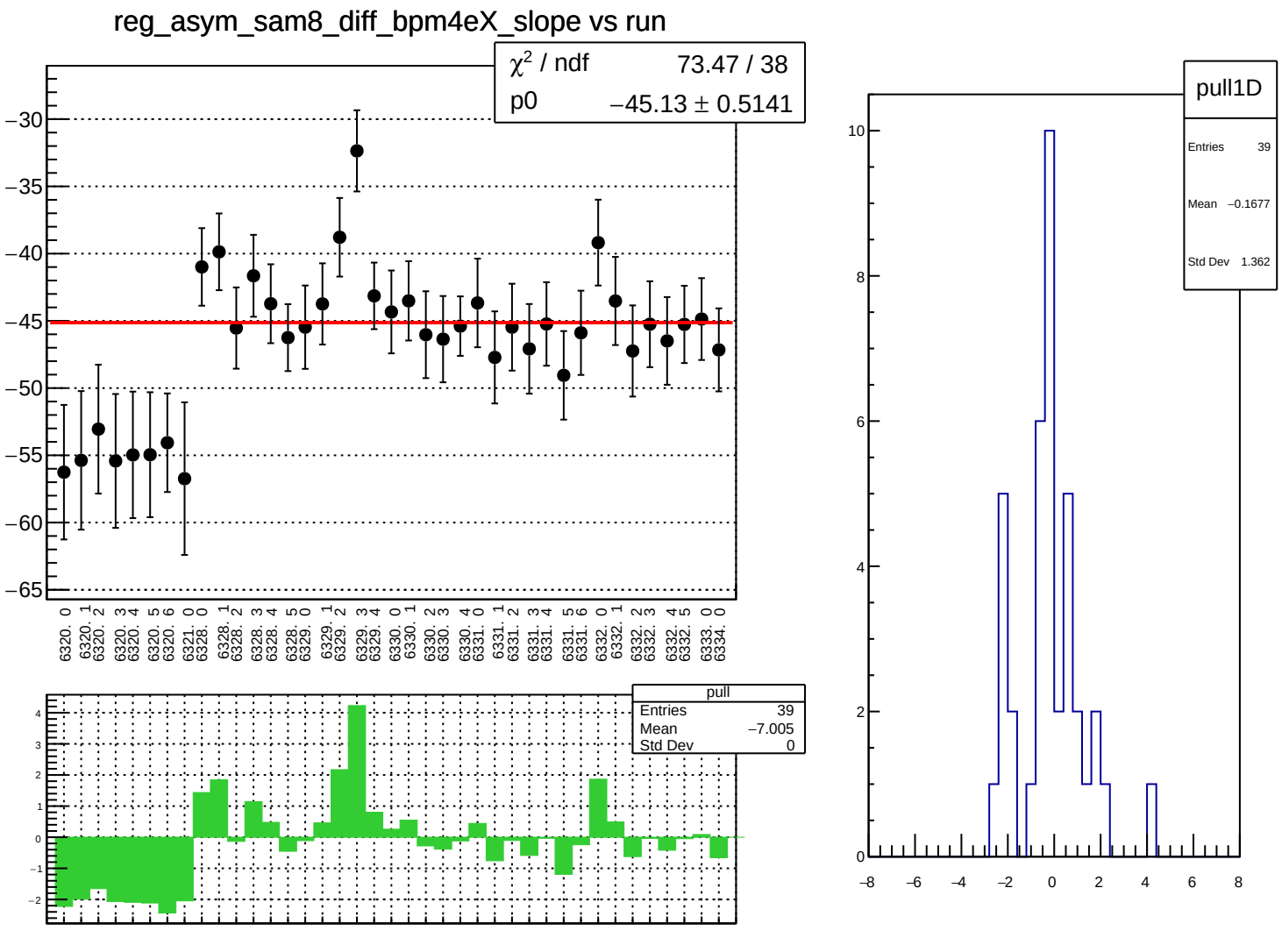

pull1D
Entries 39
Mean −0.1226
Std Dev 0.6283

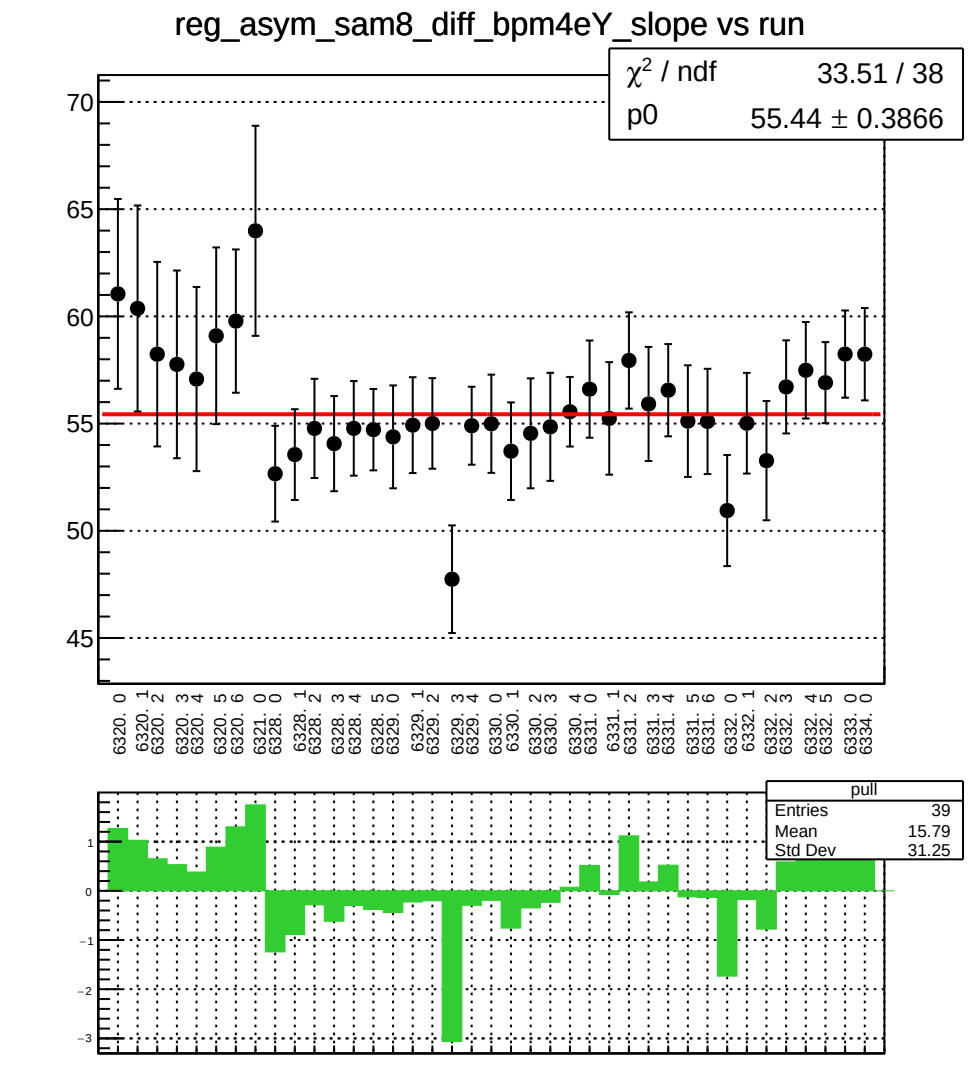

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 68.85 / 38
p0 12.74 ± 0.4888
pull
Entries 39
Mean −7.49
Std Dev 0

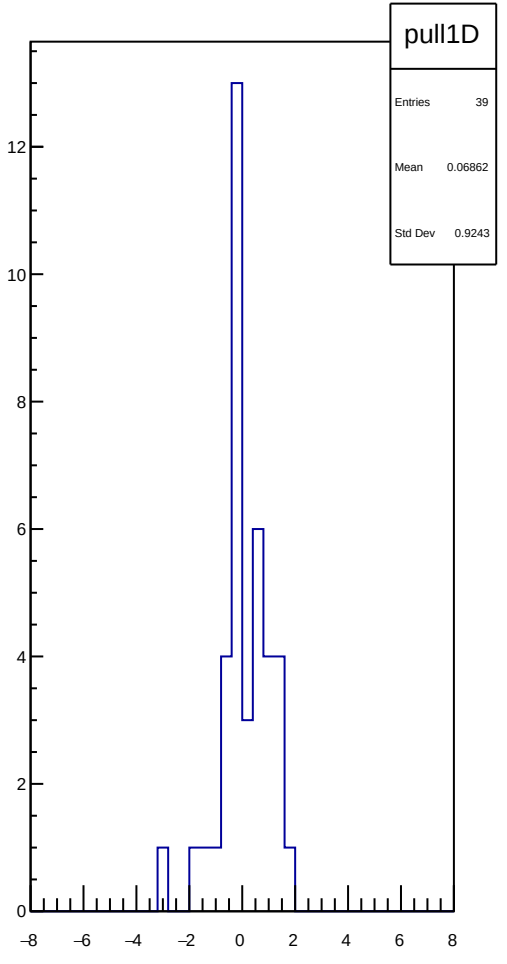

pull1D
Entries 39
Mean 0.1661
Std Dev 1.318

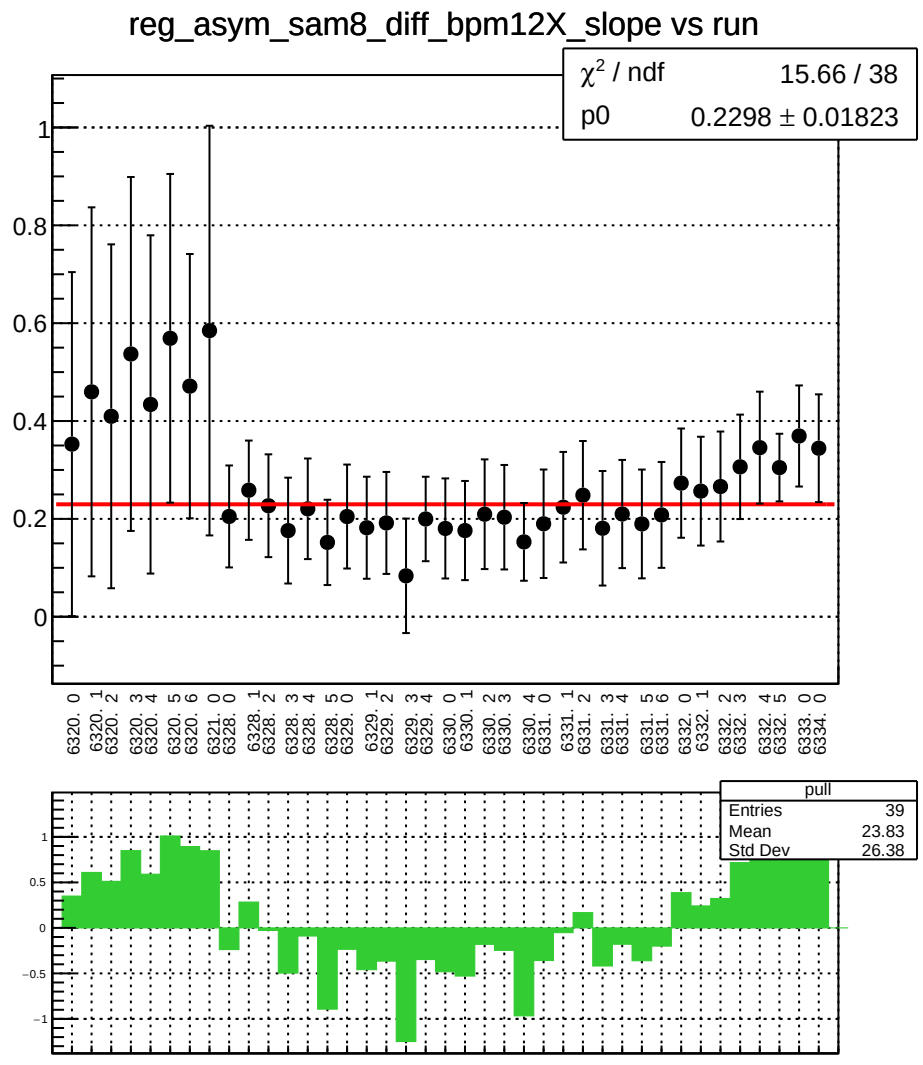

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 37.36 / 38
p0 −43.76 ± 0.358
−35
−40
−45
−50
−55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.55
Std Dev 4.19
3
2
1
0
−1

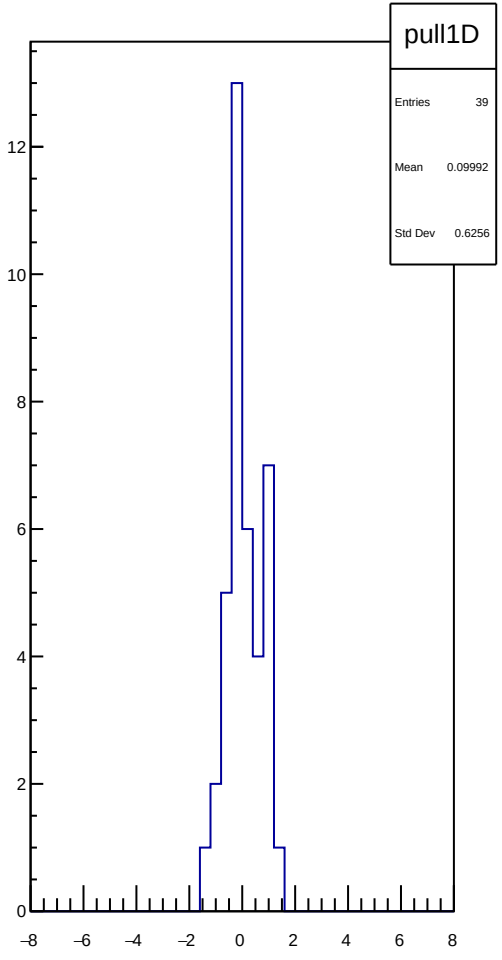

pull1D
Entries 39
Mean −0.03546
Std Dev 0.9781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

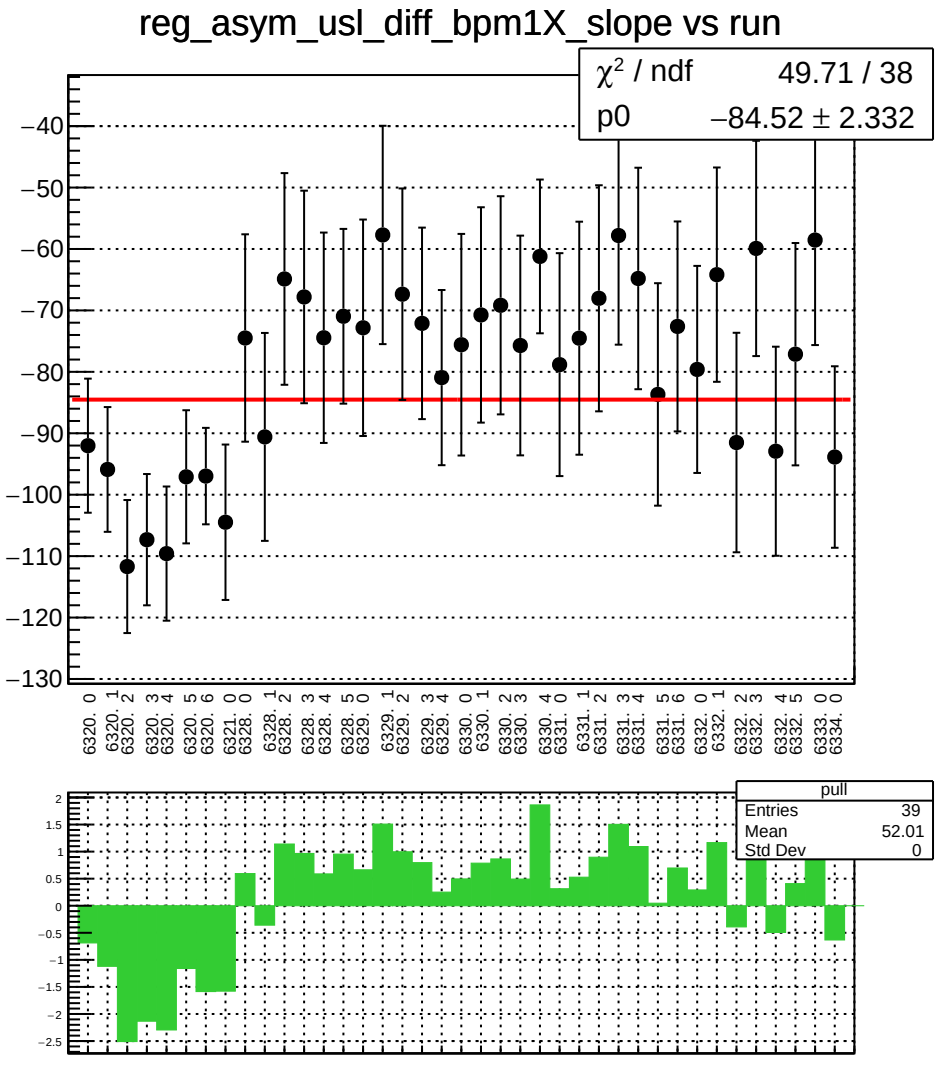

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 73.47 / 38
p0 −45.13 ± 0.5141
−30
−35
−40
−45
−50
−55
−60
−65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.005
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.1677
Std Dev 1.362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

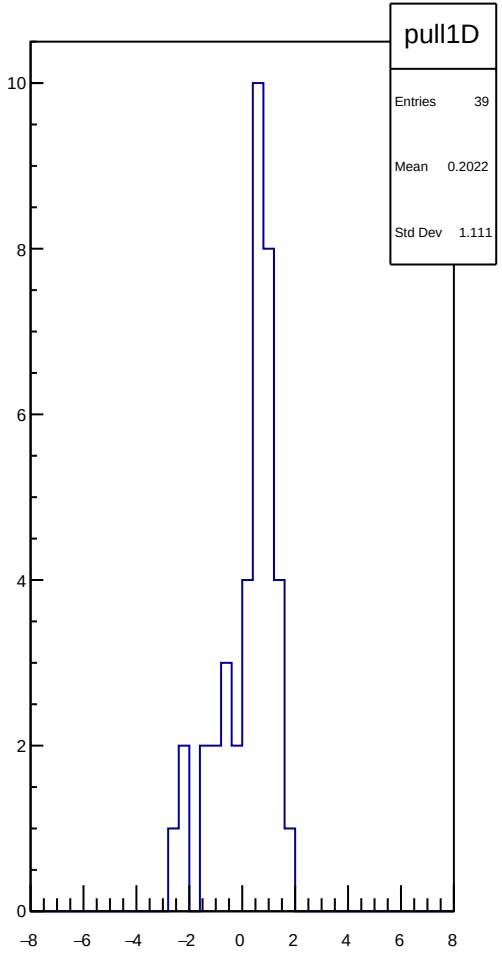

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 33.51 / 38
p0 55.44 ± 0.3866
70
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.79
Std Dev 31.25
1
0
−1
−2
−3

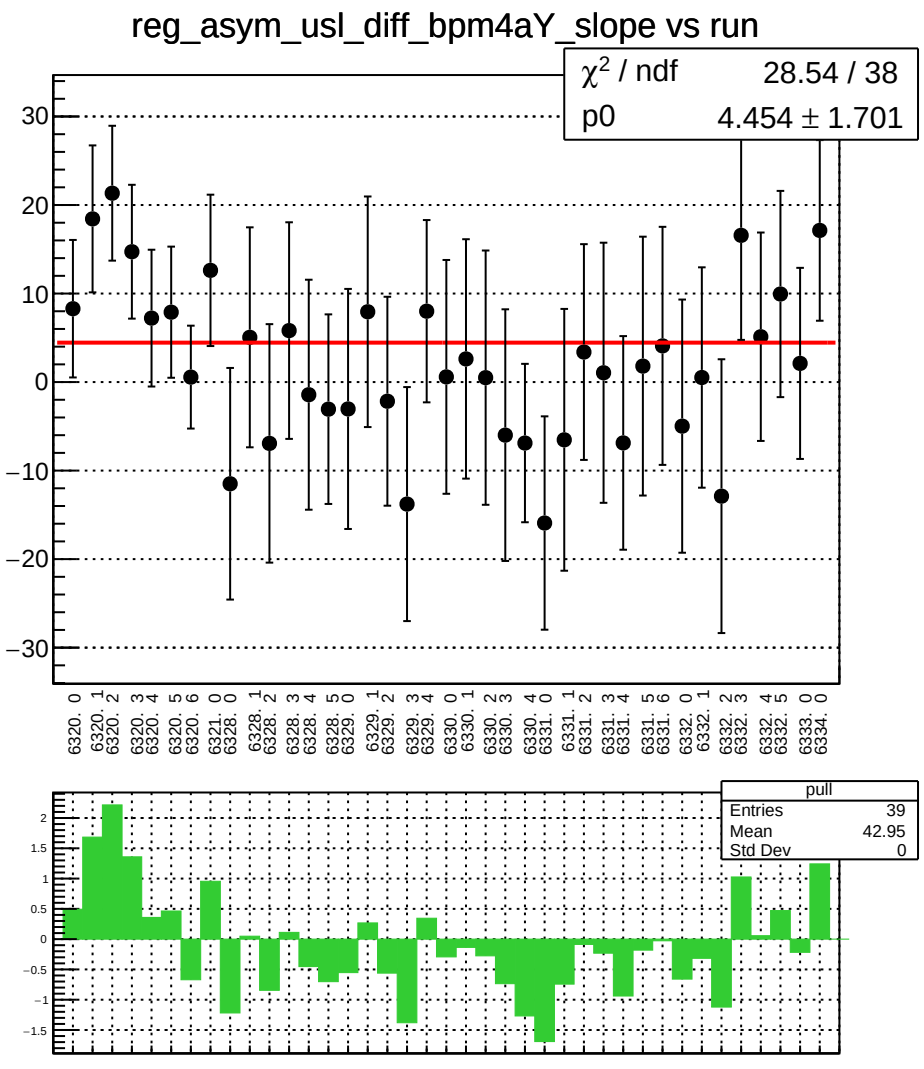

pull1D
Entries 39
Mean 0.06862
Std Dev 0.9243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

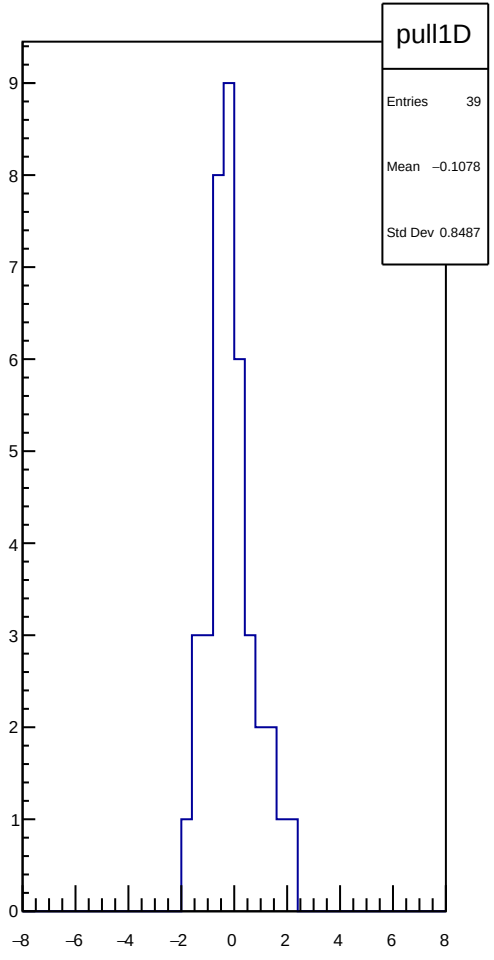

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 15.66 / 38
p0 0.2298 ± 0.01823
pull
Entries 39
Mean 23.83
Std Dev 26.38

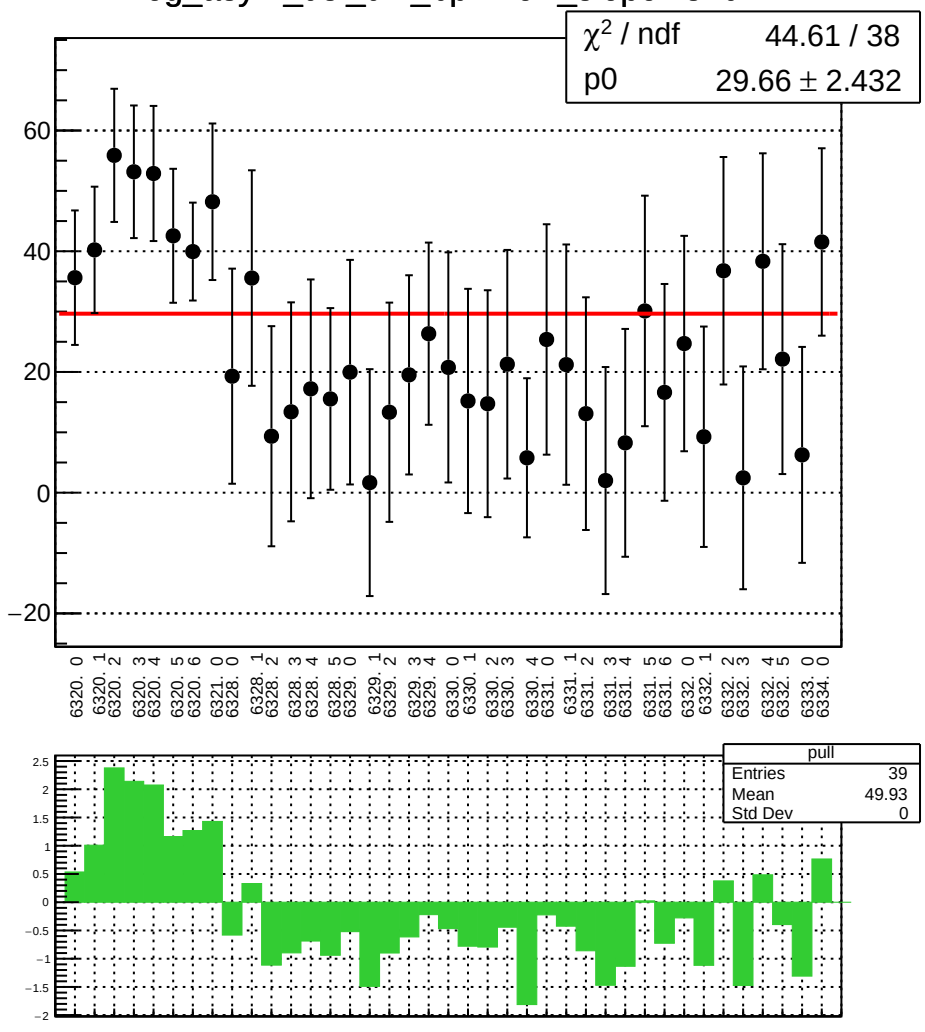

pull1D
Entries 39
Mean 0.09992
Std Dev 0.6256

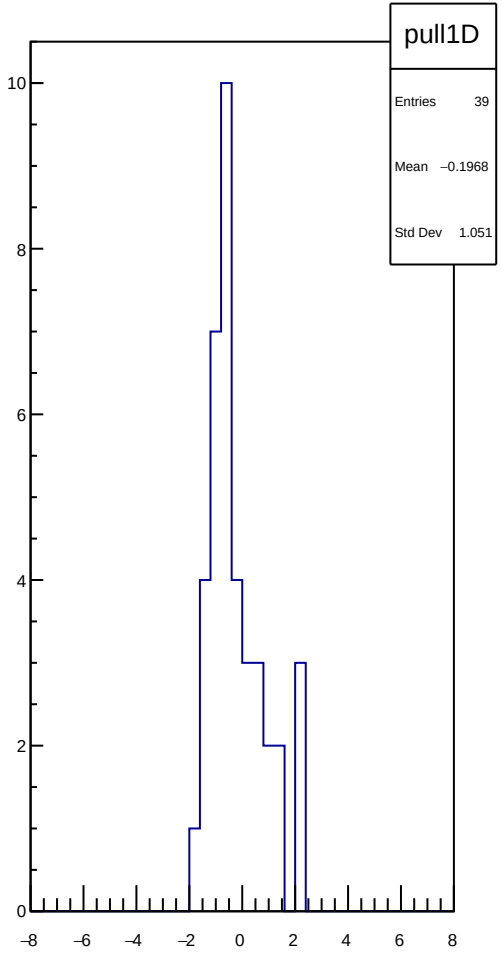

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 49.71 / 38
p0 −84.52 ± 2.332
pull
Entries 39
Mean 52.01
Std Dev 0

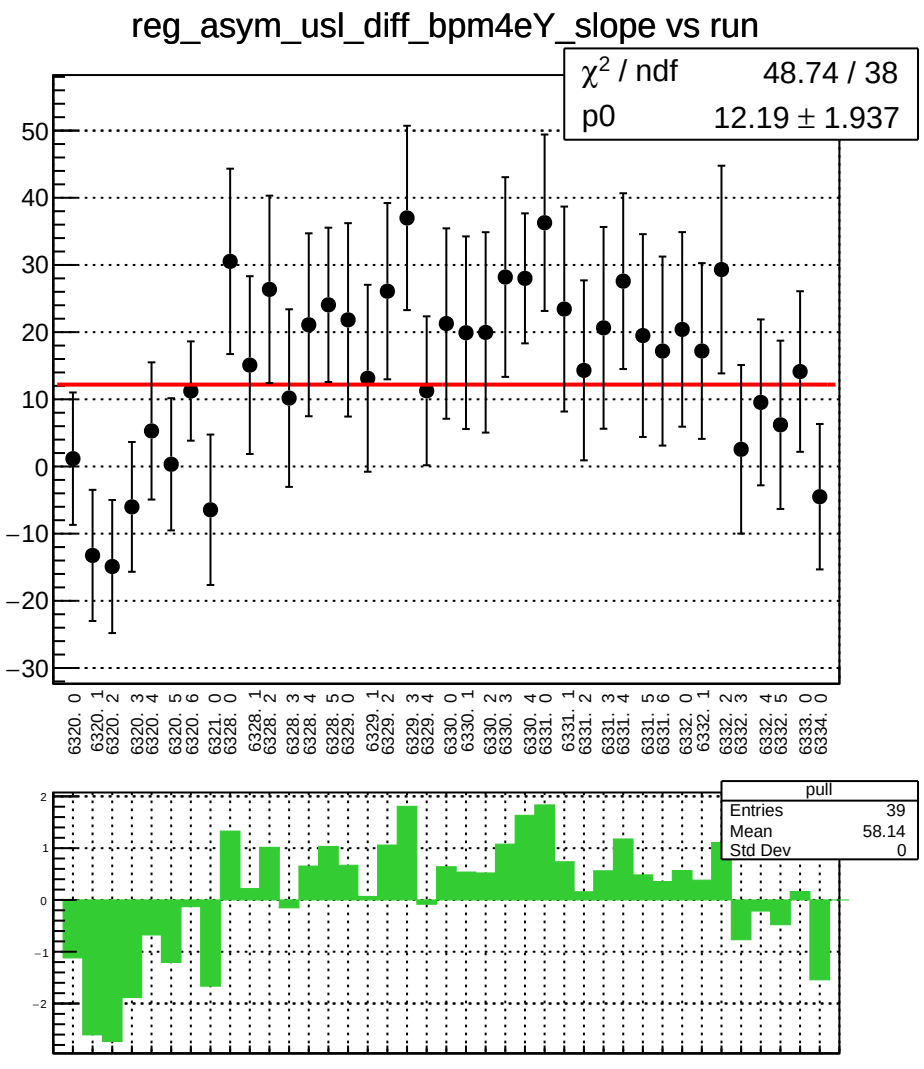

pull1D
Entries 39
Mean 0.2022
Std Dev 1.111

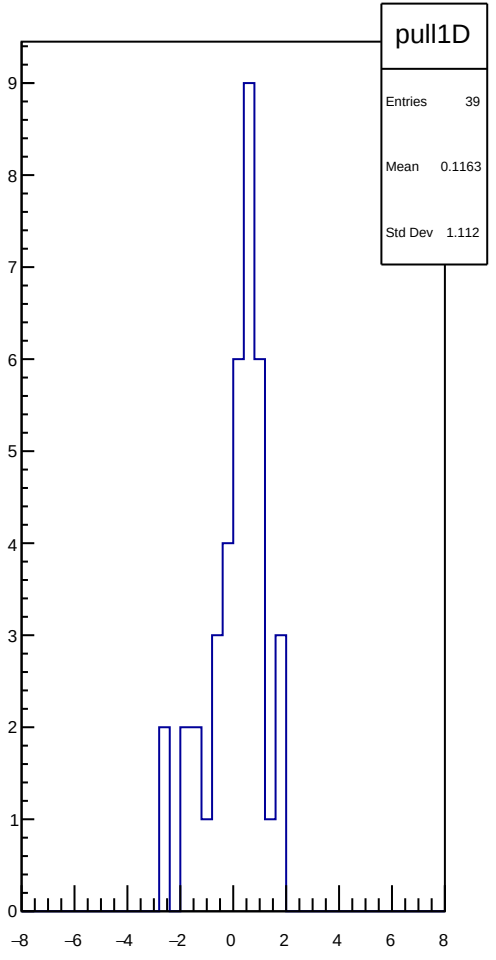

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 28.54 / 38
p0 4.454 ± 1.701
pull
Entries 39
Mean 42.95
Std Dev 0

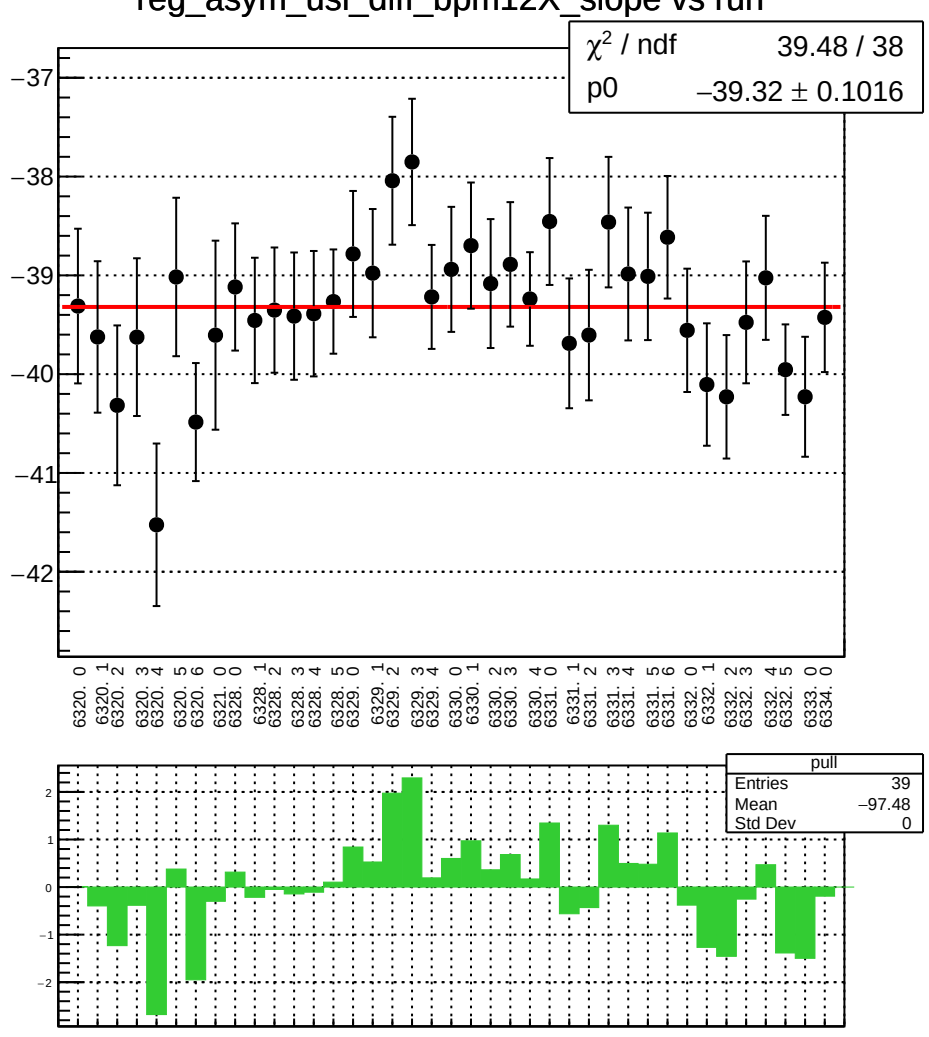

pull1D
Entries 39
Mean −0.1078
Std Dev 0.8487

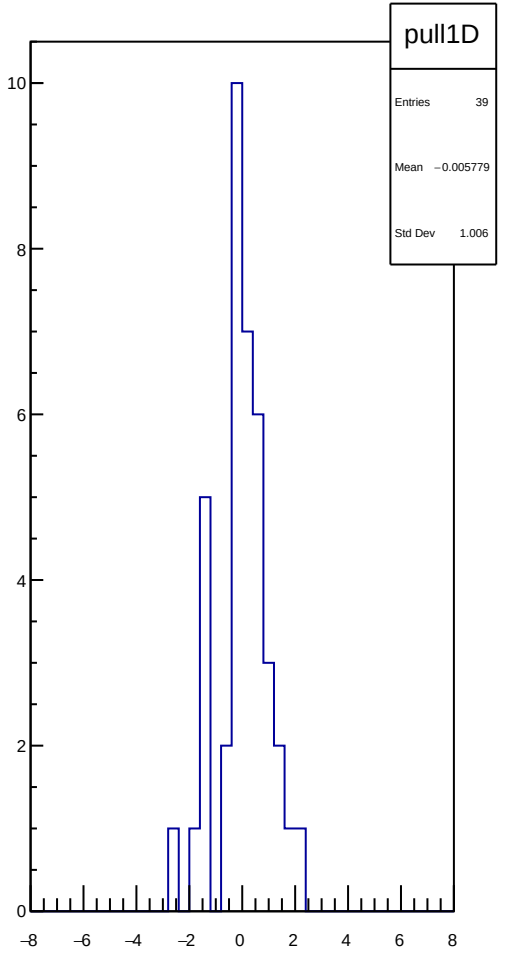

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 44.61 / 38
p0 29.66 ± 2.432
pull
Entries 39
Mean 49.93
Std Dev 0

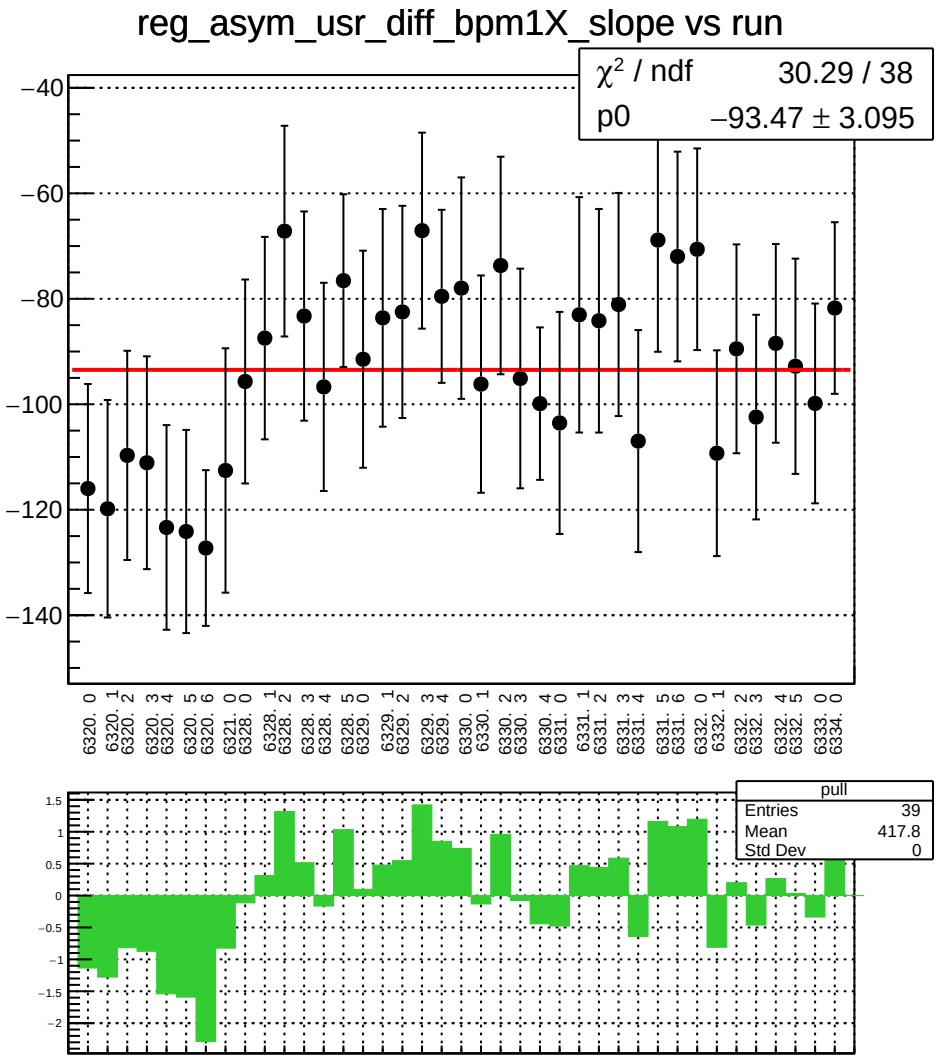

pull1D
Entries 39
Mean −0.1968
Std Dev 1.051

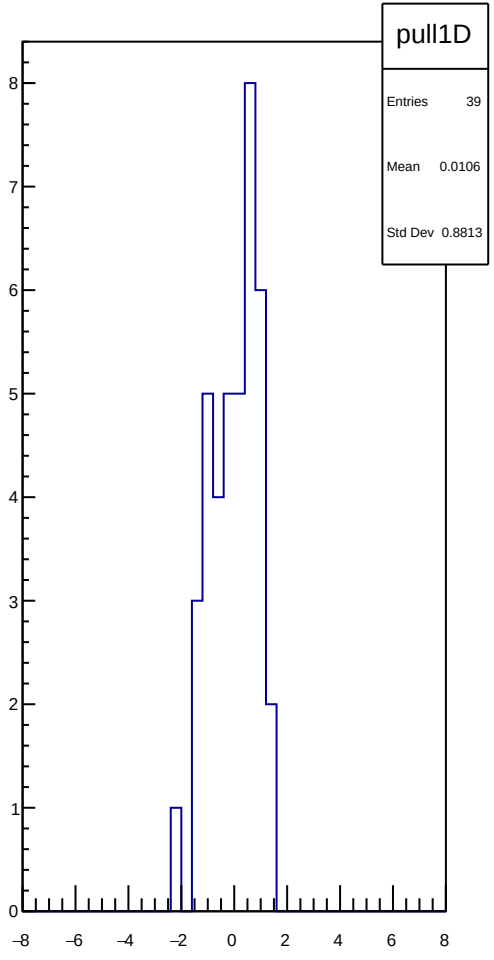

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 48.74 / 38
p0 12.19 ± 1.937
50
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.14
Std Dev 0
2
1
0
−1
−2

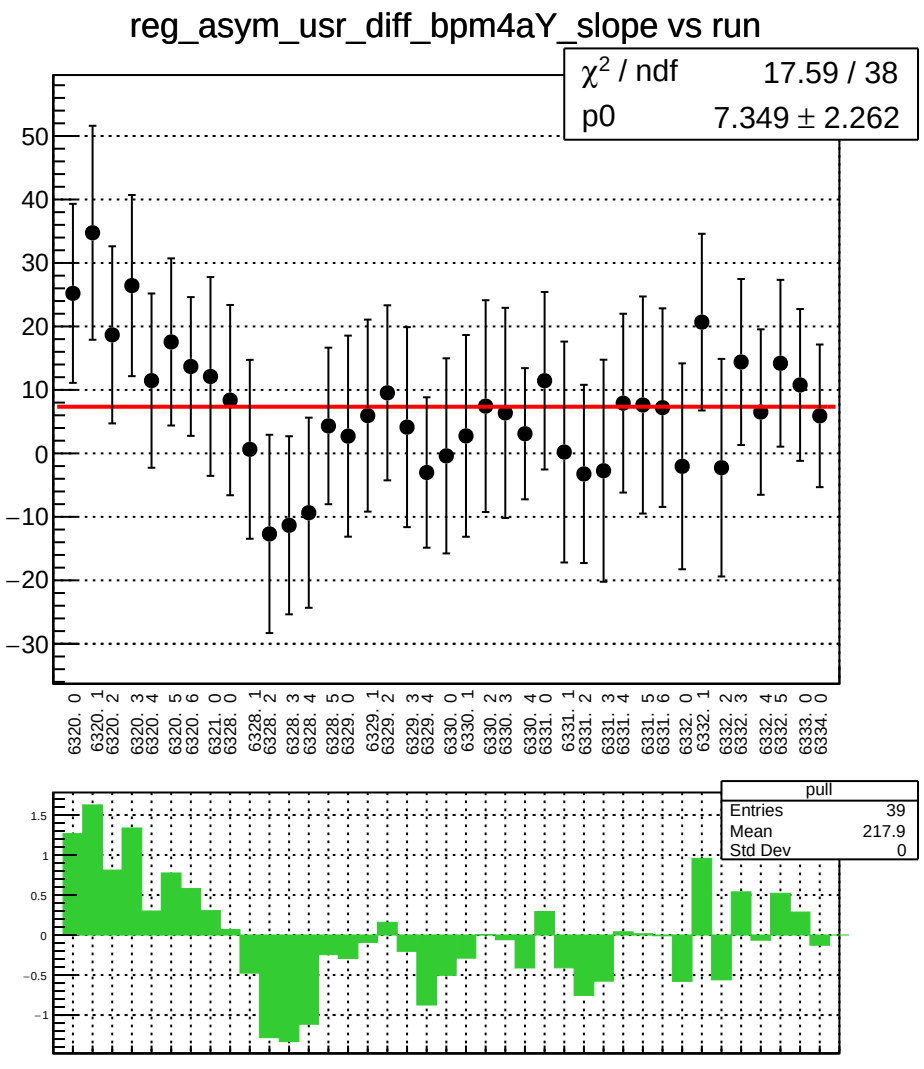

pull1D
Entries 39
Mean 0.1163
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

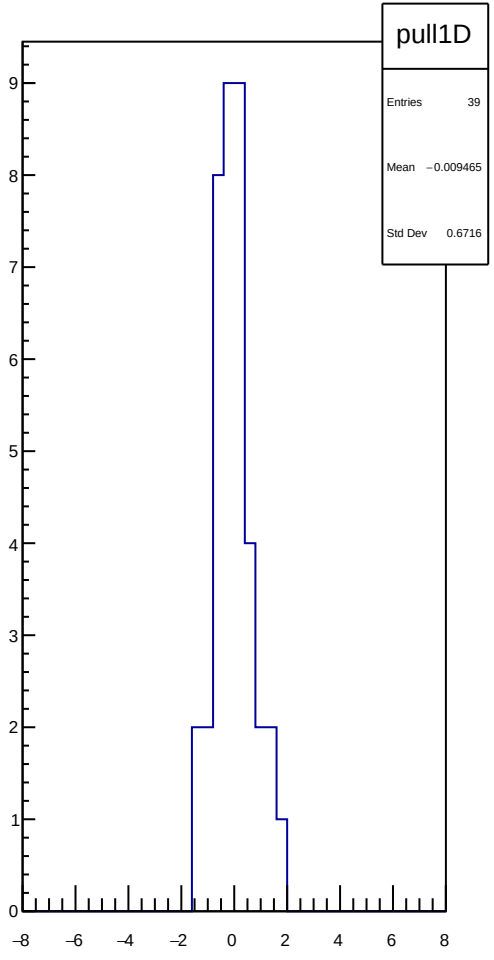

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 39.48 / 38
p0 −39.32 ± 0.1016
−37
−38
−39
−40
−41
−42
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −97.48
Std Dev 0
2
1
0
−1
−2

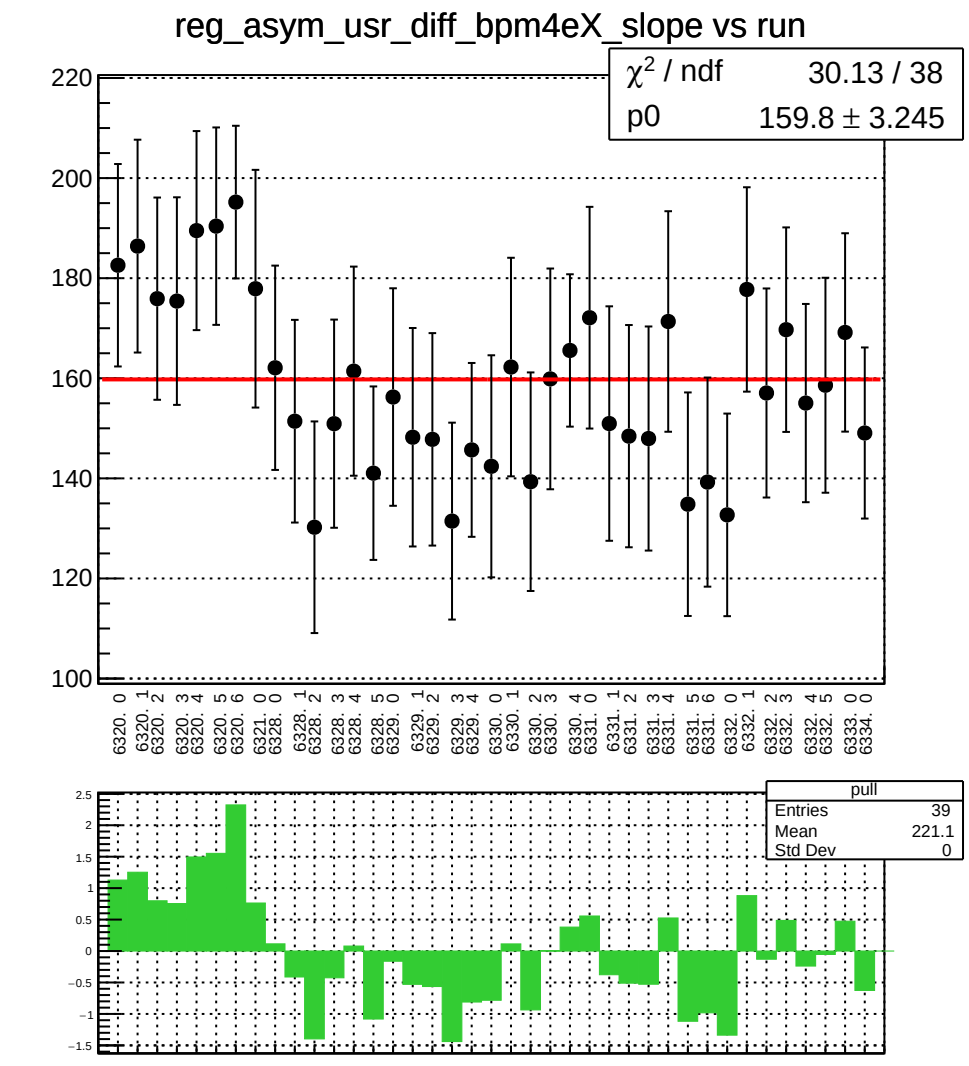

pull1D
Entries 39
Mean −0.005779
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

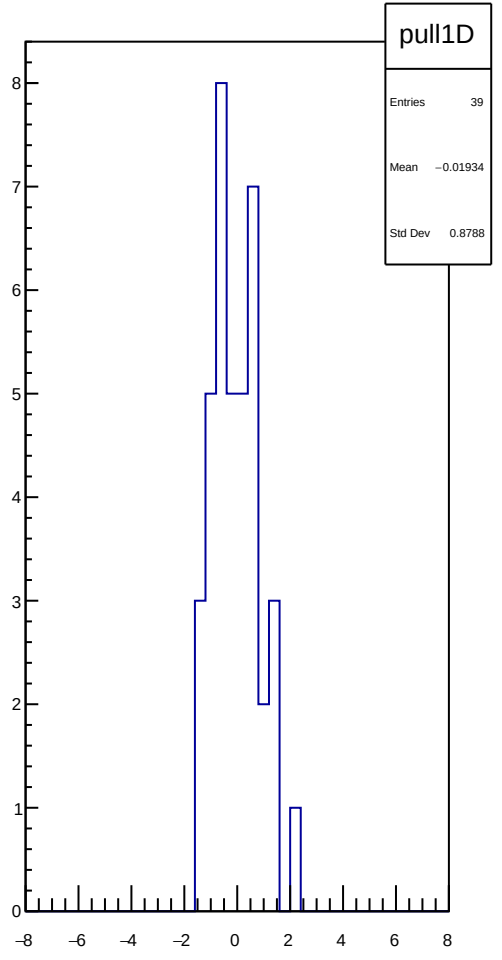

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 30.29 / 38
p0 −93.47 ± 3.095
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 417.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

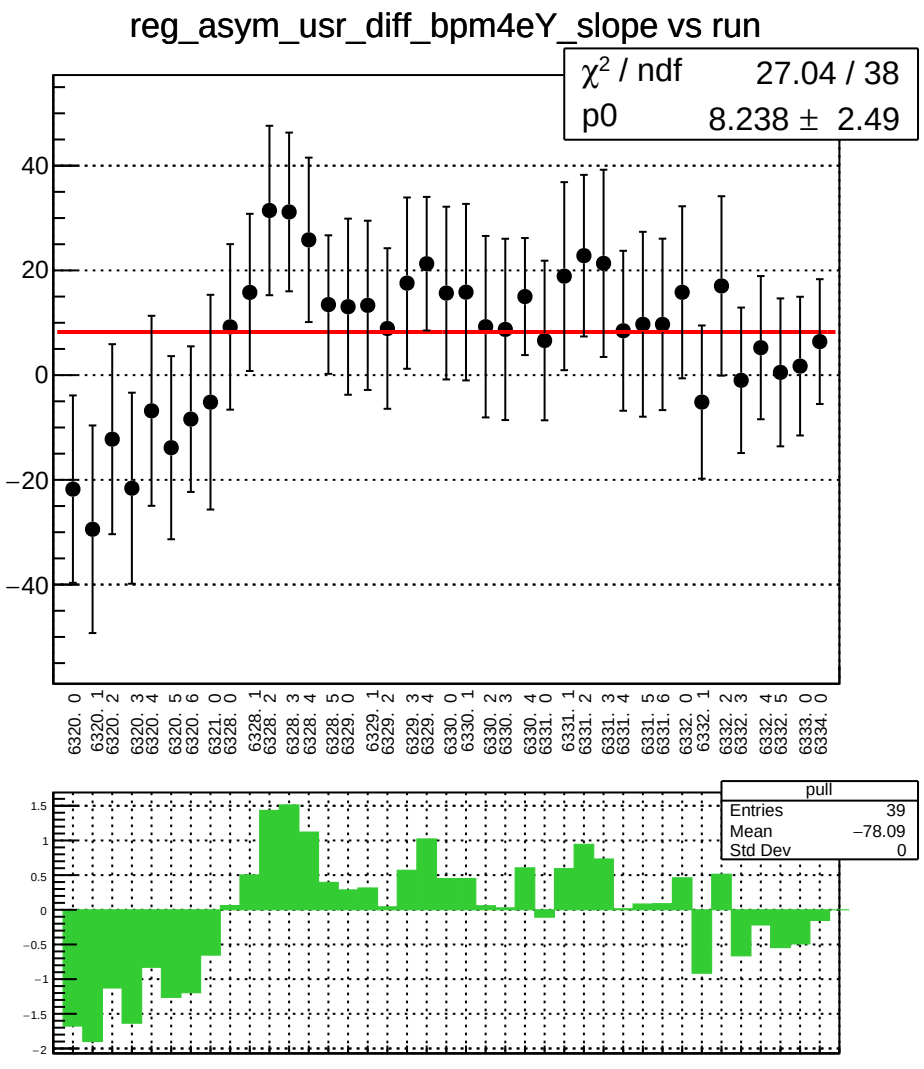

pull1D
Entries 39
Mean 0.0106
Std Dev 0.8813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

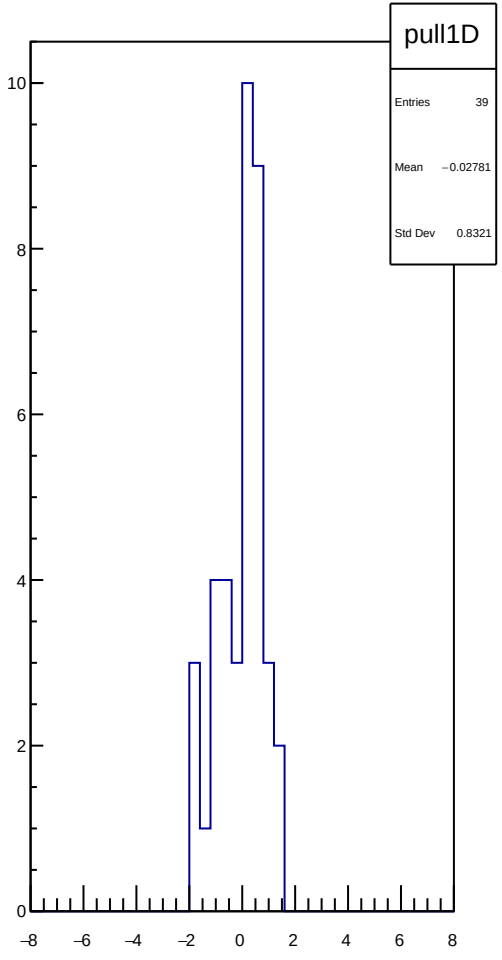

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 17.59 / 38
p0 7.349 ± 2.262
pull
Entries 39
Mean 217.9
Std Dev 0

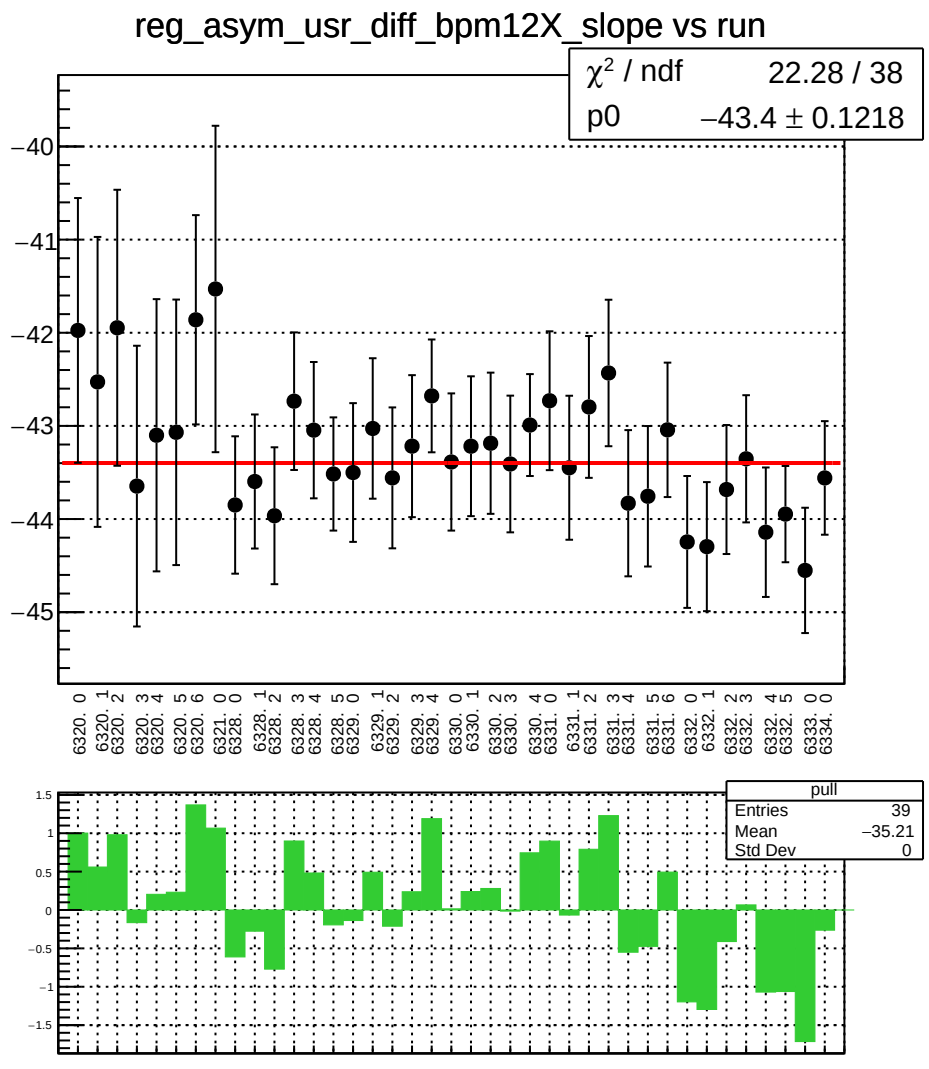

pull1D
Entries 39
Mean −0.009465
Std Dev 0.6716

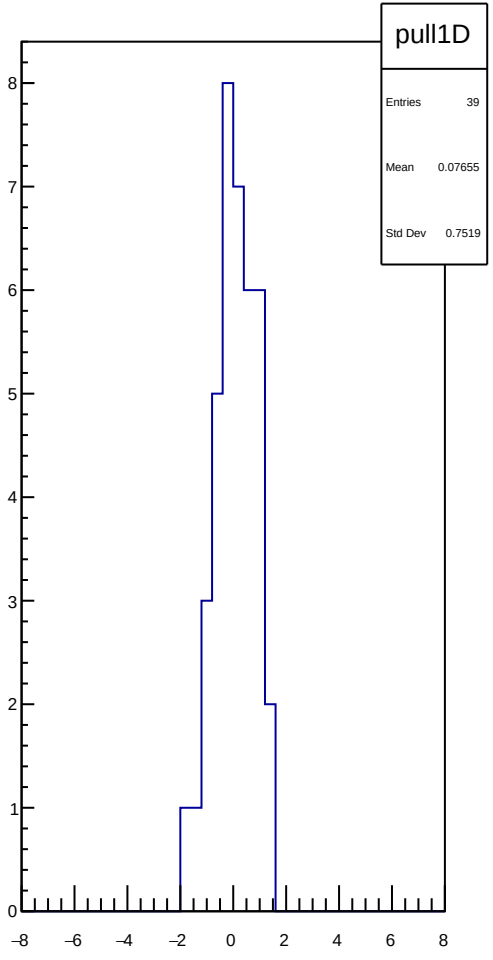

reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 30.13 / 38
p0 159.8 ± 3.245
220
200
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 221.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

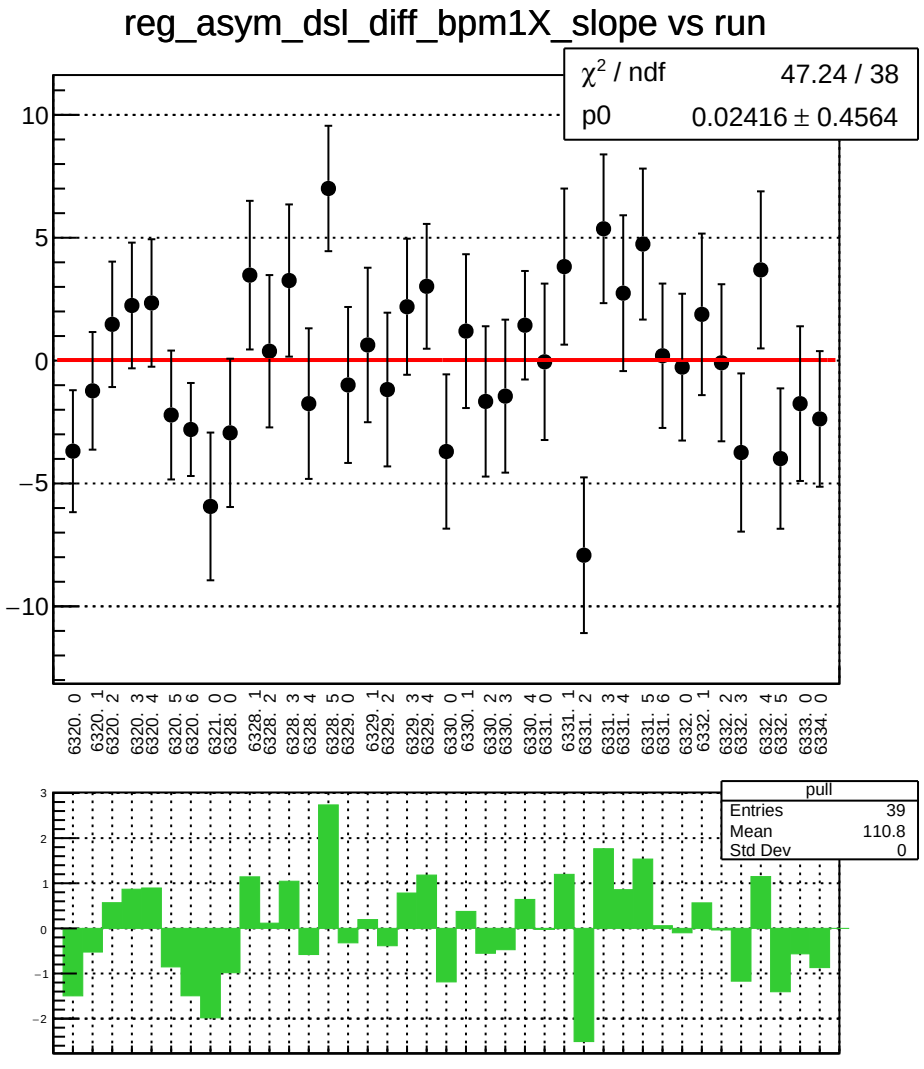

pull1D
Entries 39
Mean −0.01934
Std Dev 0.8788
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

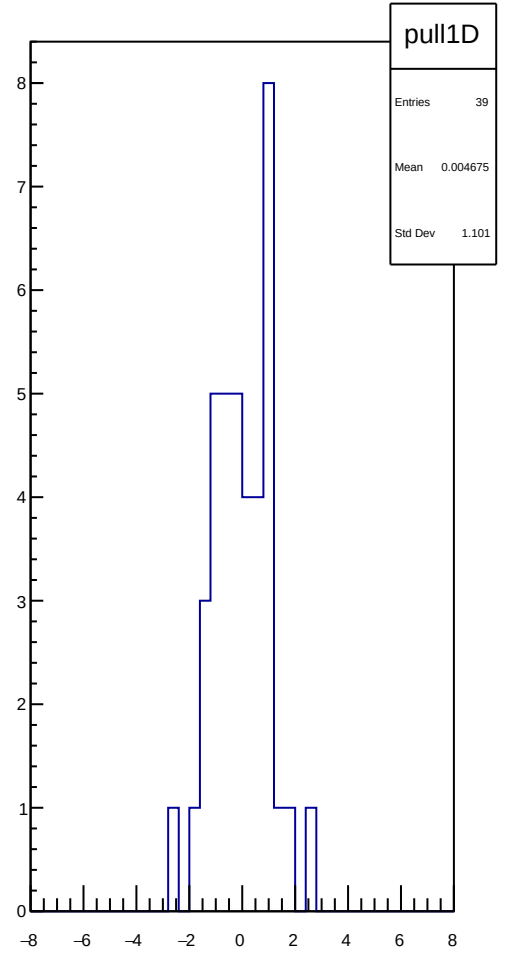

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 27.04 / 38
p0 8.238 ± 2.49
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −78.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

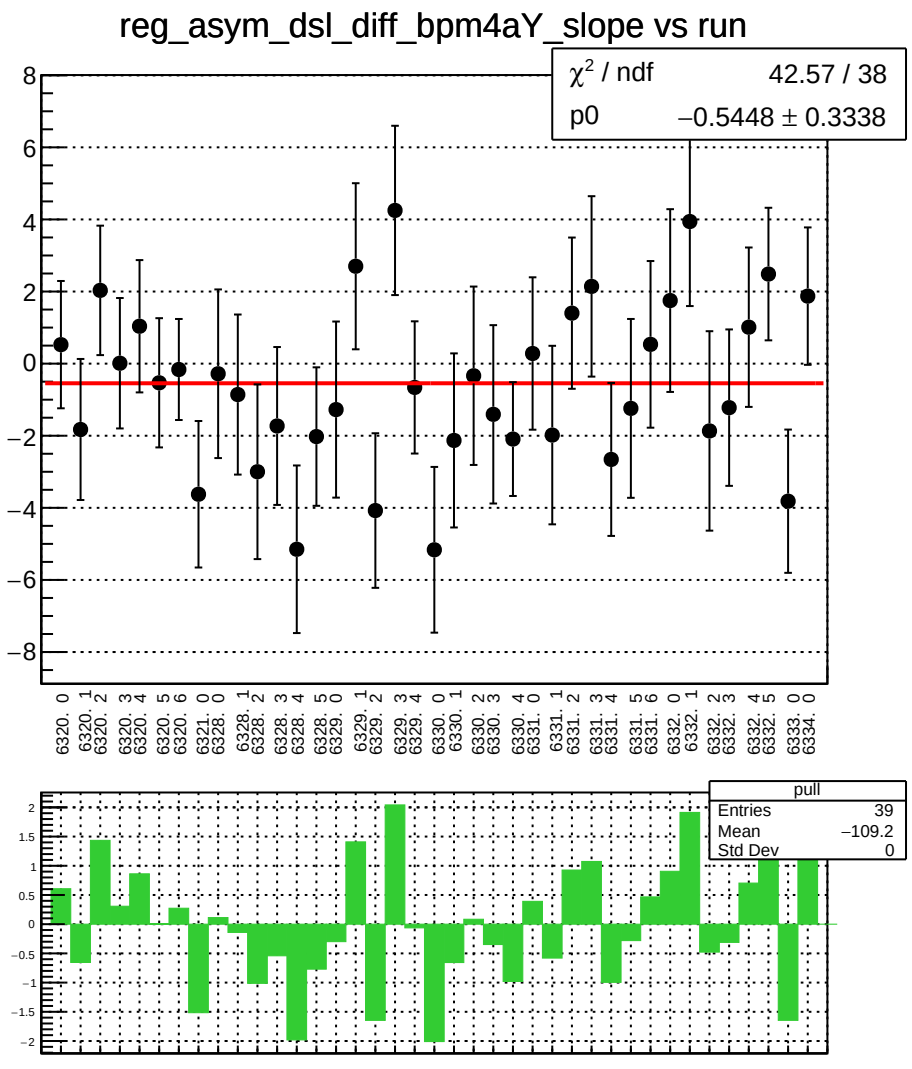

pull1D
Entries 39
Mean −0.02781
Std Dev 0.8321
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

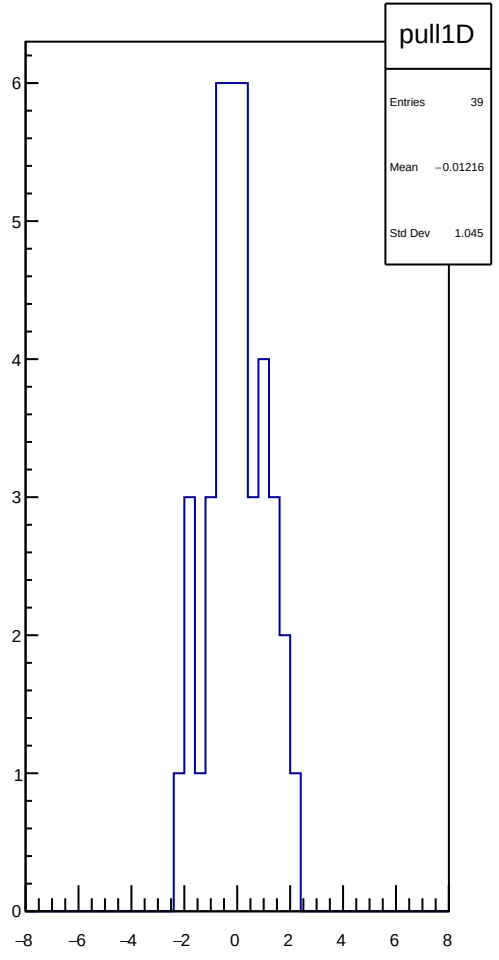

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 22.28 / 38
p0 −43.4 ± 0.1218
−40
−41
−42
−43
−44
−45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −35.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

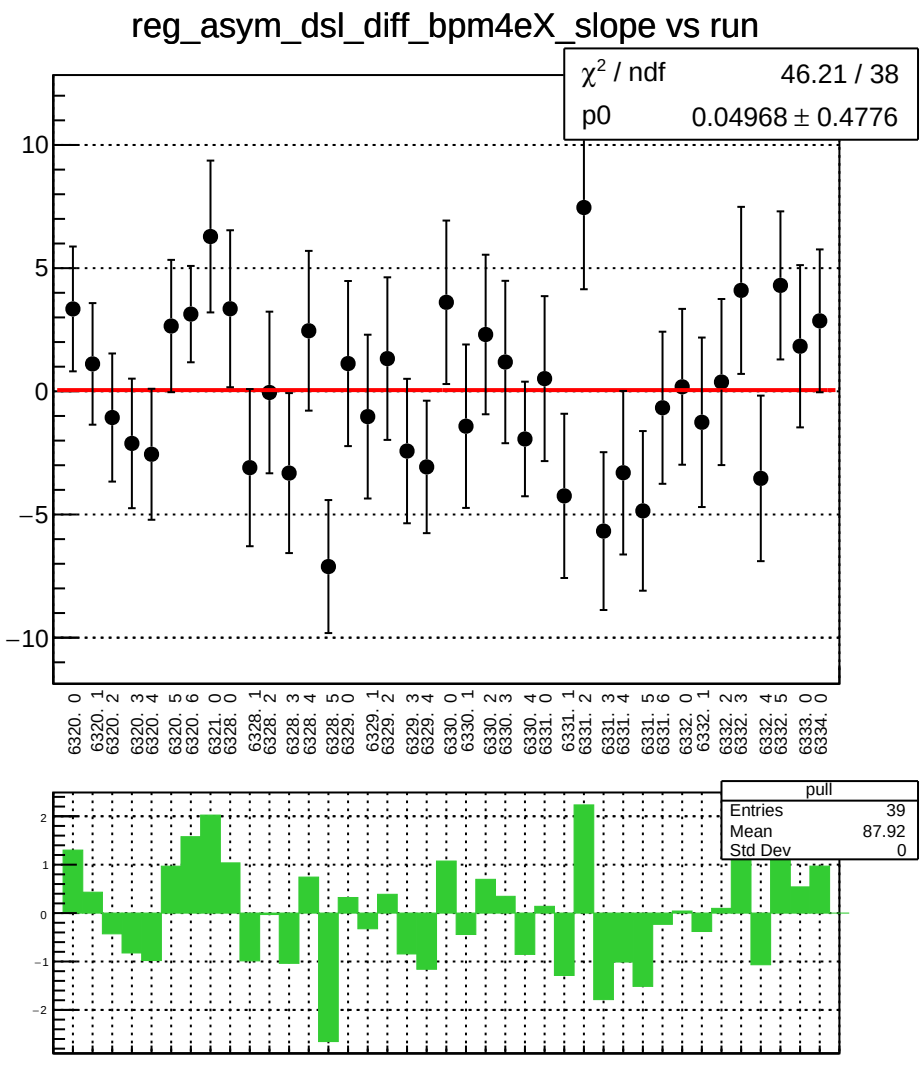

pull1D
Entries 39
Mean 0.07655
Std Dev 0.7519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

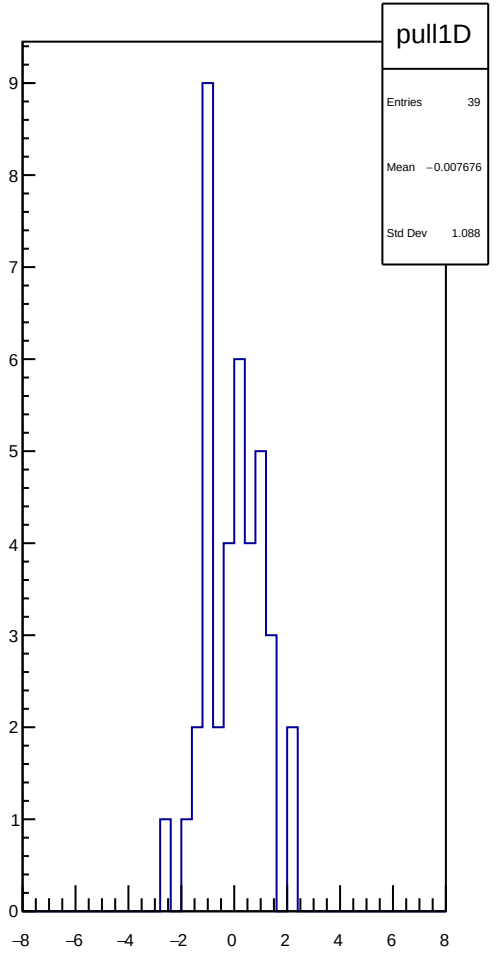

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 47.24 / 38
p0 0.02416 ± 0.4564
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 110.8
Std Dev 0
3
2
1
0
−1
−2

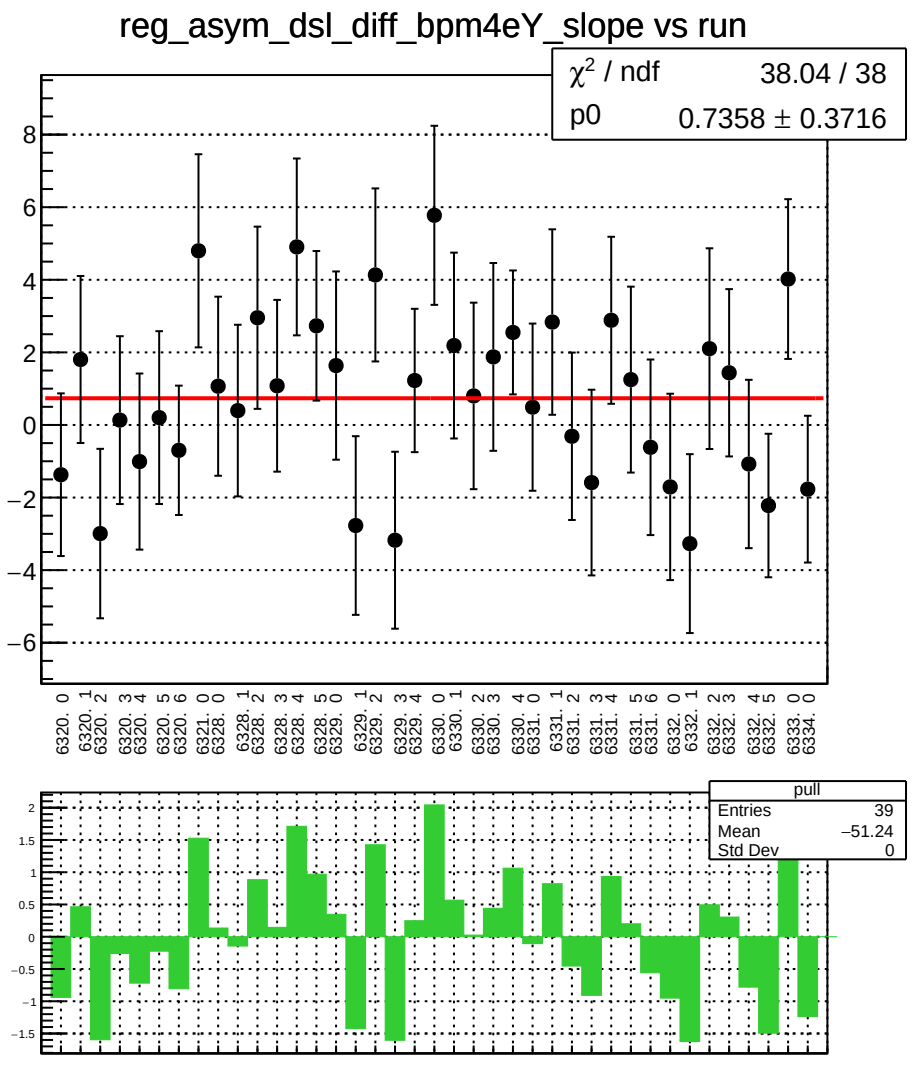

pull1D
Entries 39
Mean 0.004675
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

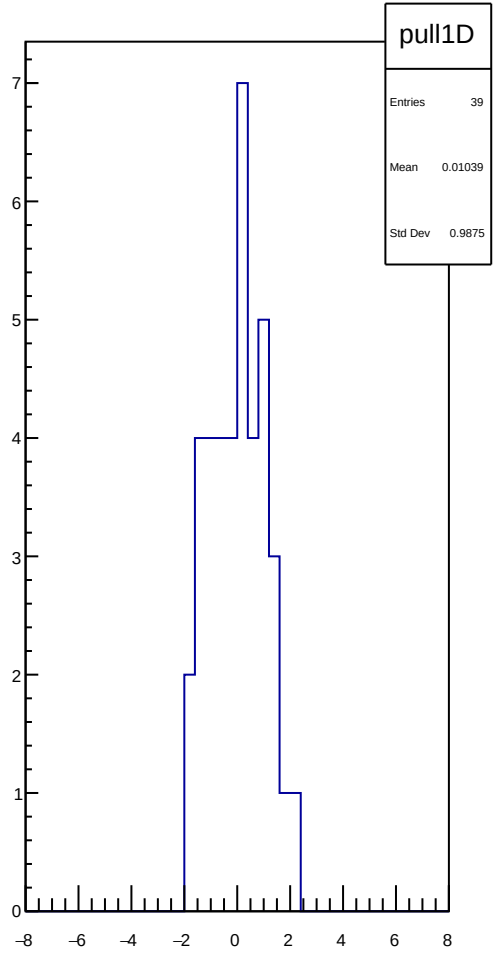

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 42.57 / 38
p0 −0.5448 ± 0.3338
pull
Entries 39
Mean −109.2
Std Dev 0

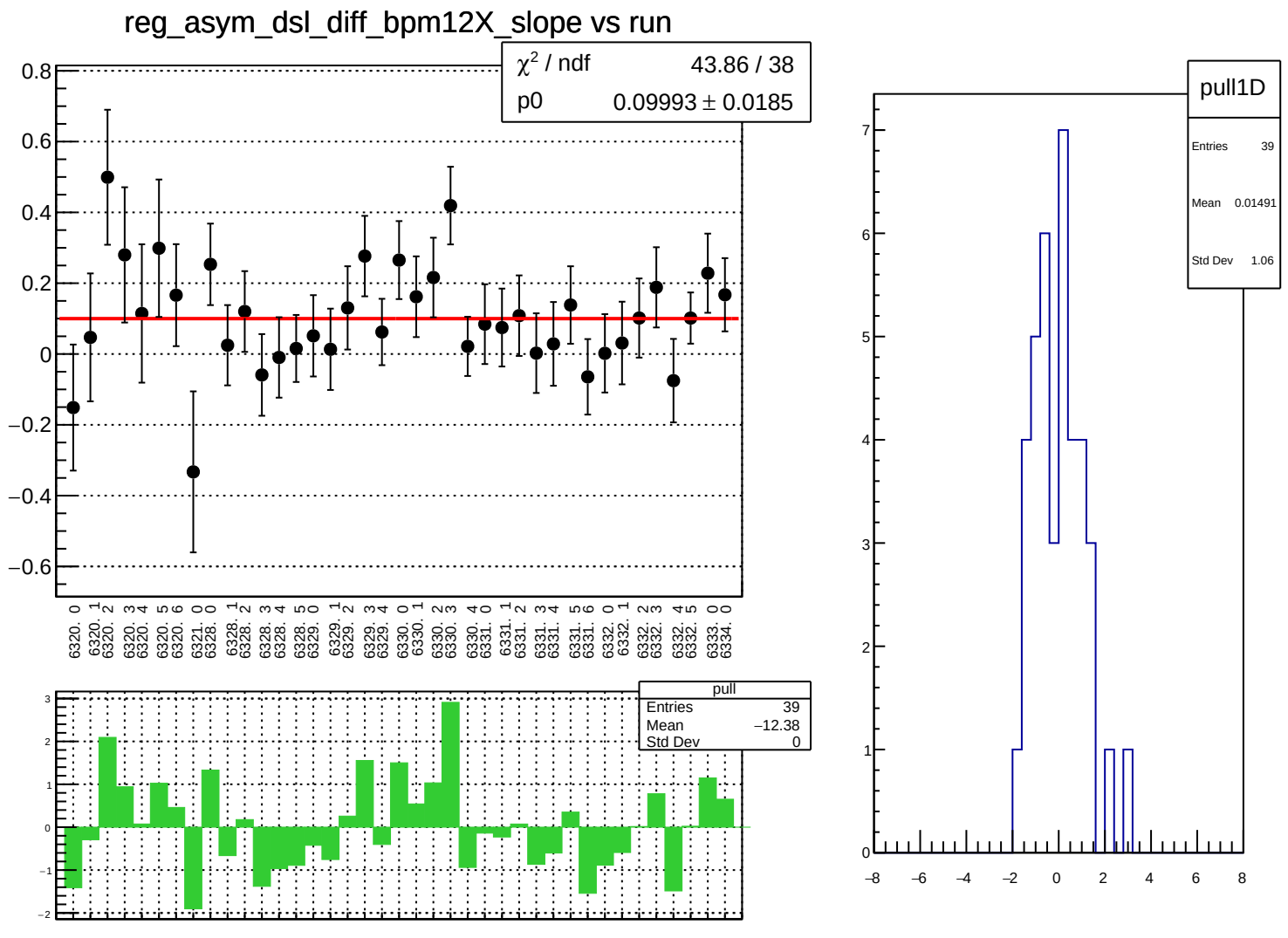

pull1D
Entries 39
Mean −0.01216
Std Dev 1.045

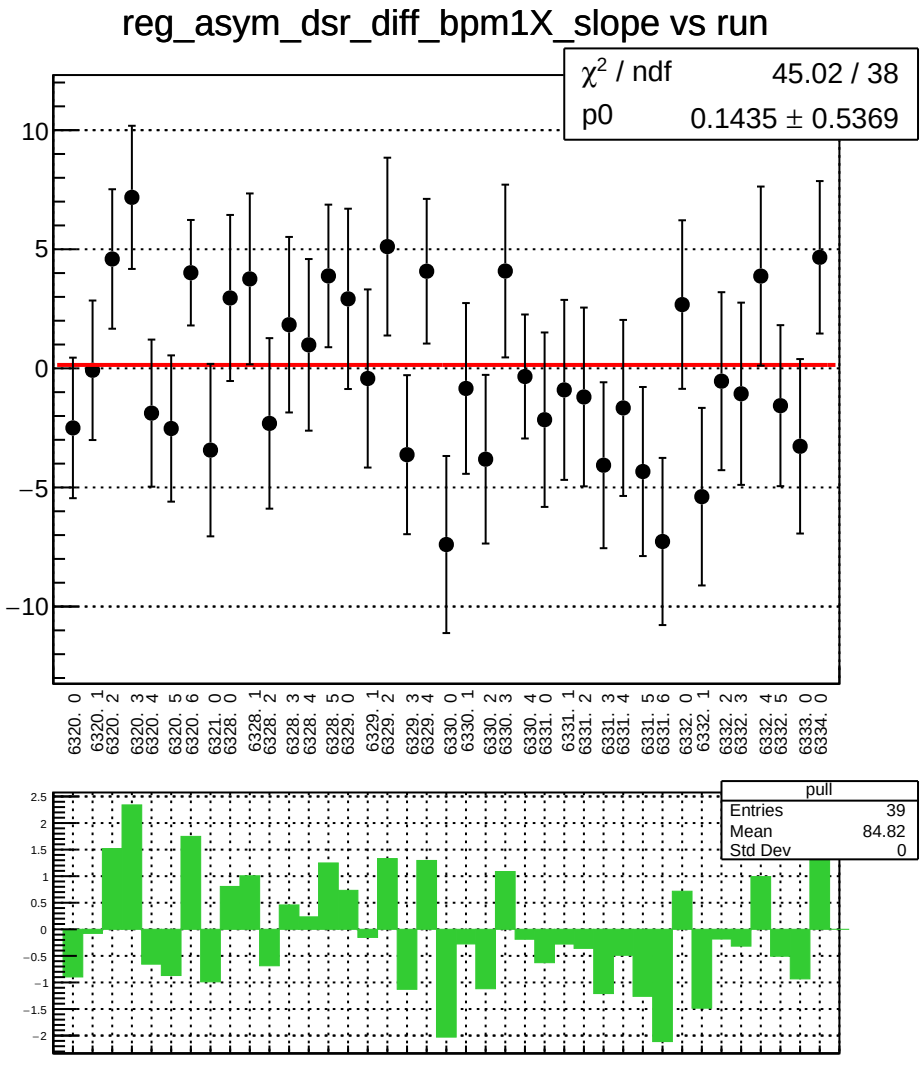

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 46.21 / 38
p0 0.04968 ± 0.4776
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.92
Std Dev 0
2
1
0
−1
−2

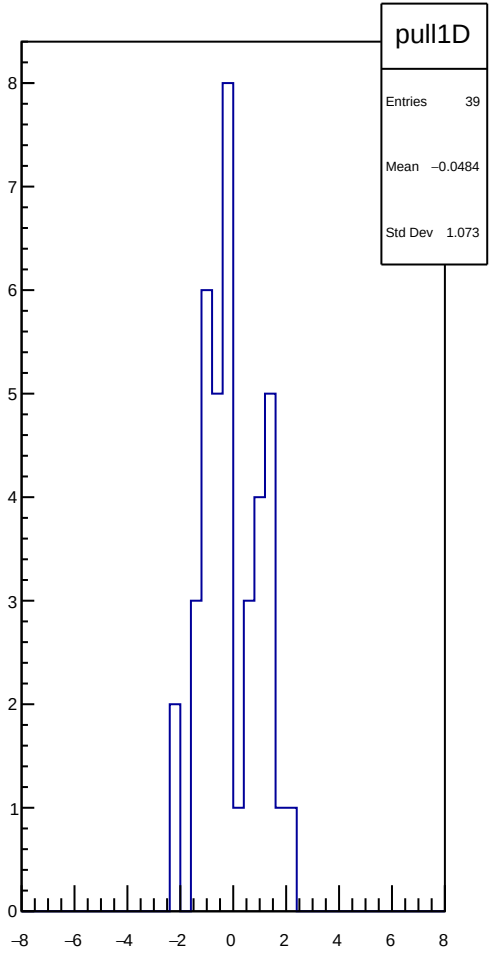

pull1D
Entries 39
Mean −0.007676
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

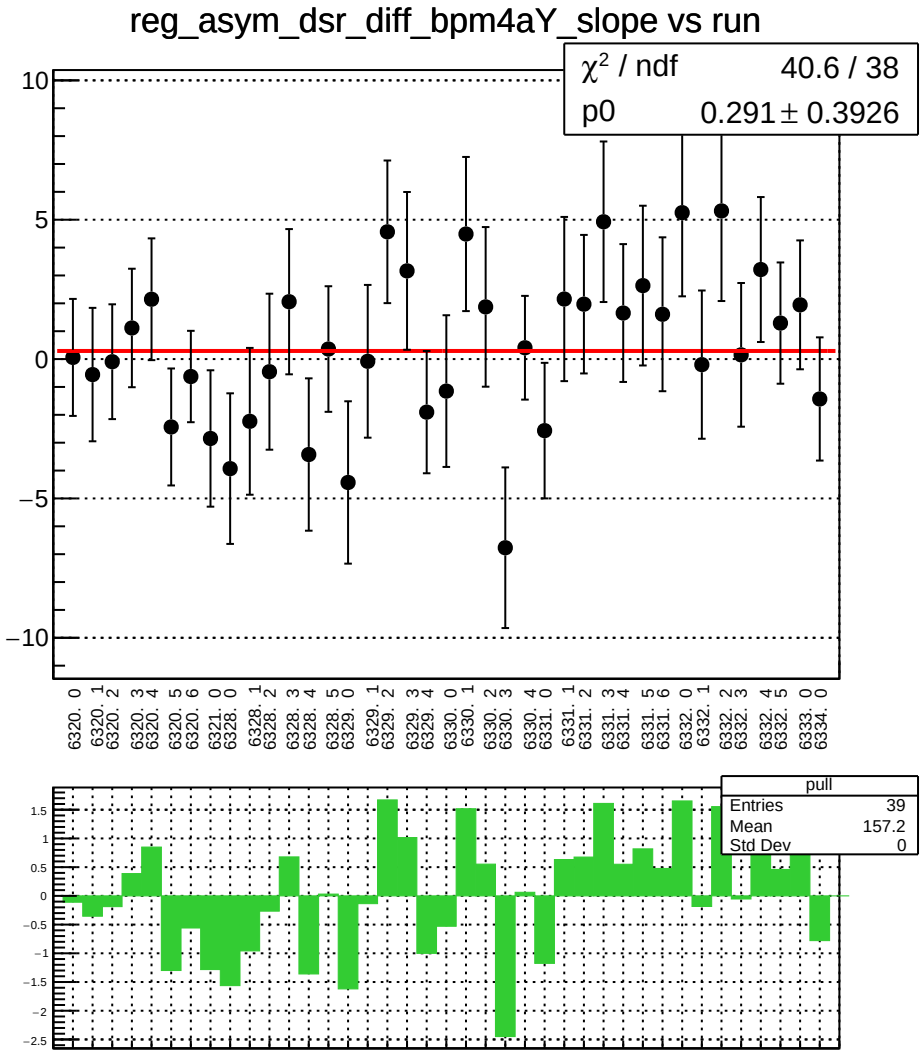

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 38.04 / 38
p0 0.7358 ± 0.3716
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −51.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

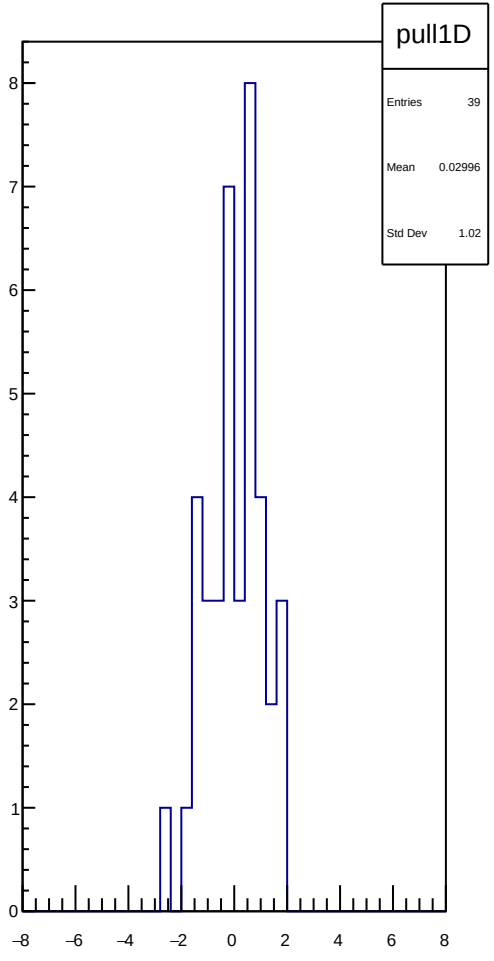

pull1D
Entries 39
Mean 0.01039
Std Dev 0.9875
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

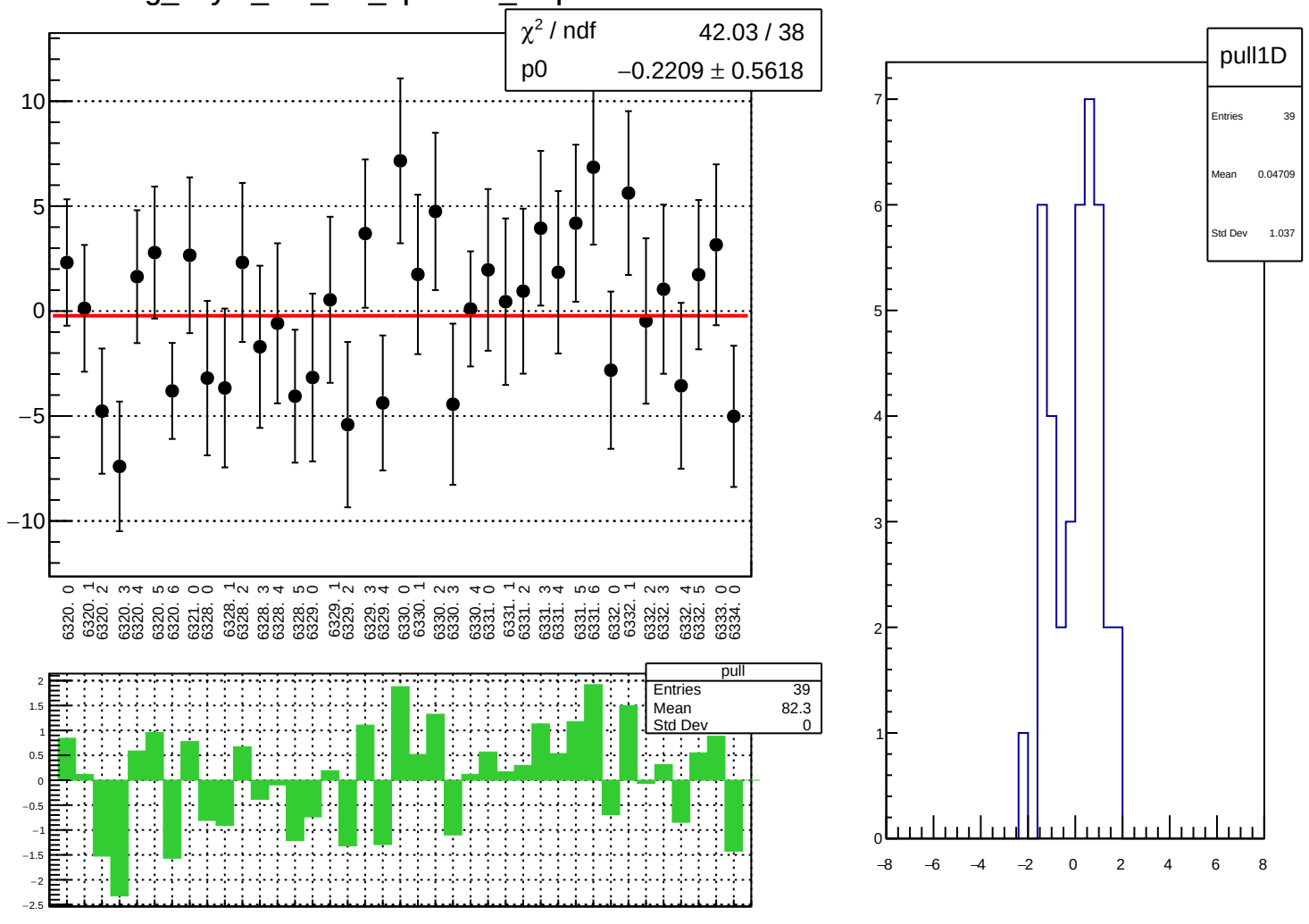

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 43.86 / 38
p0 0.09993 ± 0.0185
pull
Entries 39
Mean −12.38
Std Dev 0
pull1D
Entries 39
Mean 0.01491
Std Dev 1.06

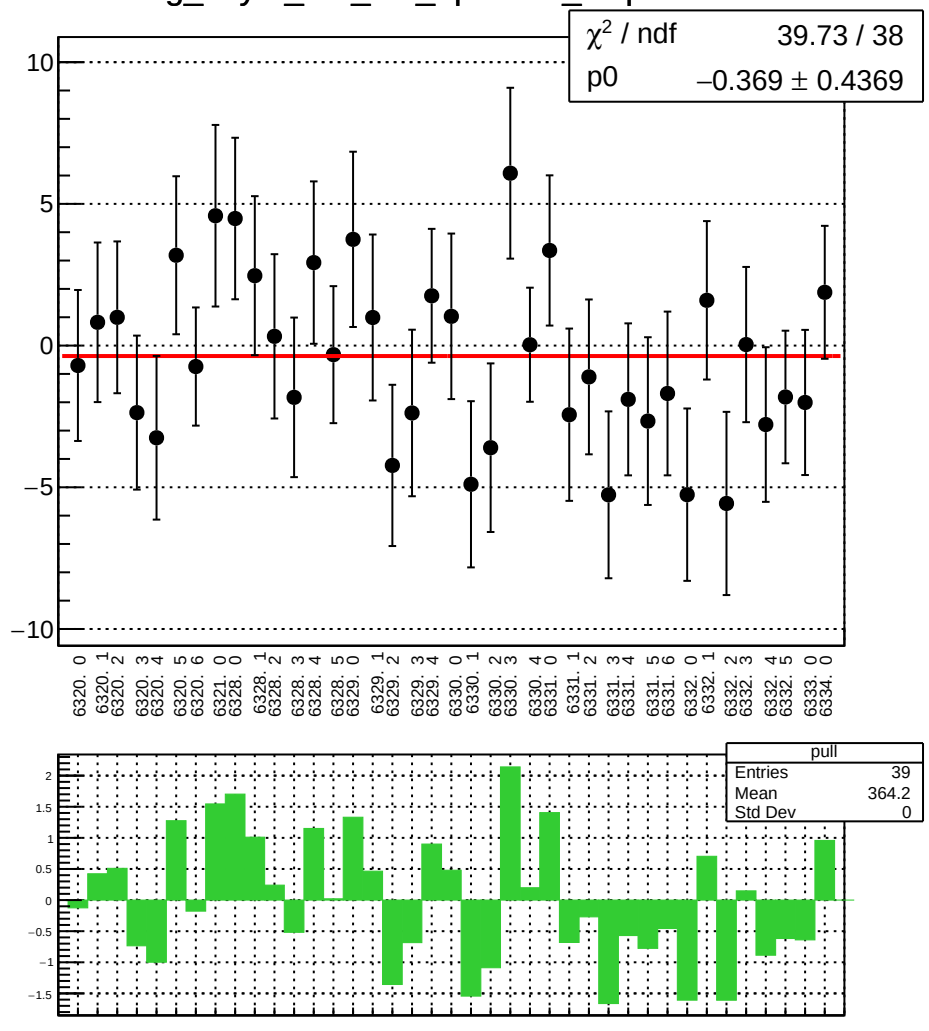

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 45.02 / 38
p0 0.1435 ± 0.5369
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 84.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

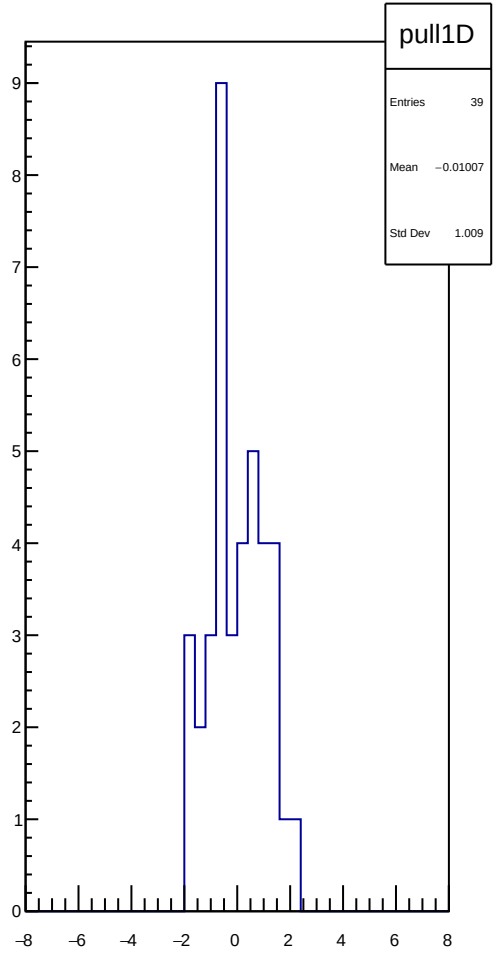

pull1D
Entries 39
Mean −0.0484
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

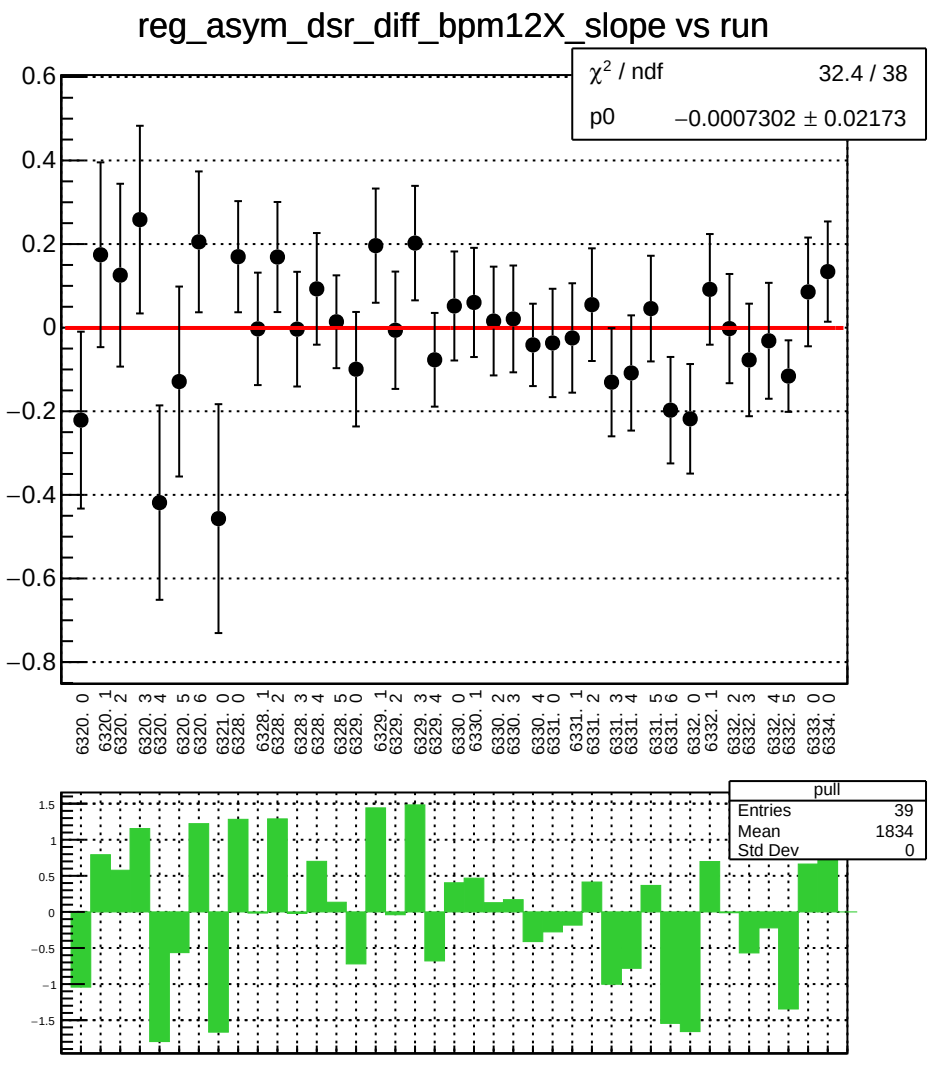

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 40.6 / 38
p0 0.291 ± 0.3926
pull
Entries 39
Mean 157.2
Std Dev 0

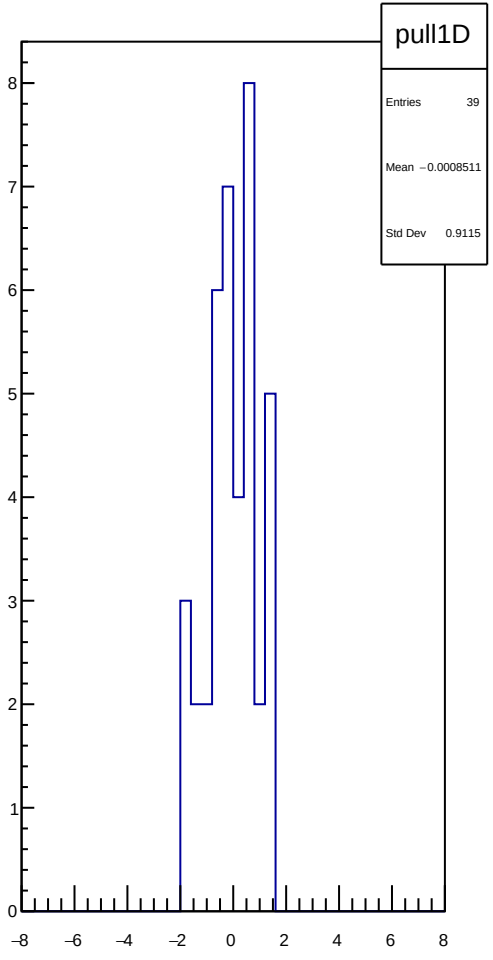

pull1D
Entries 39
Mean 0.02996
Std Dev 1.02

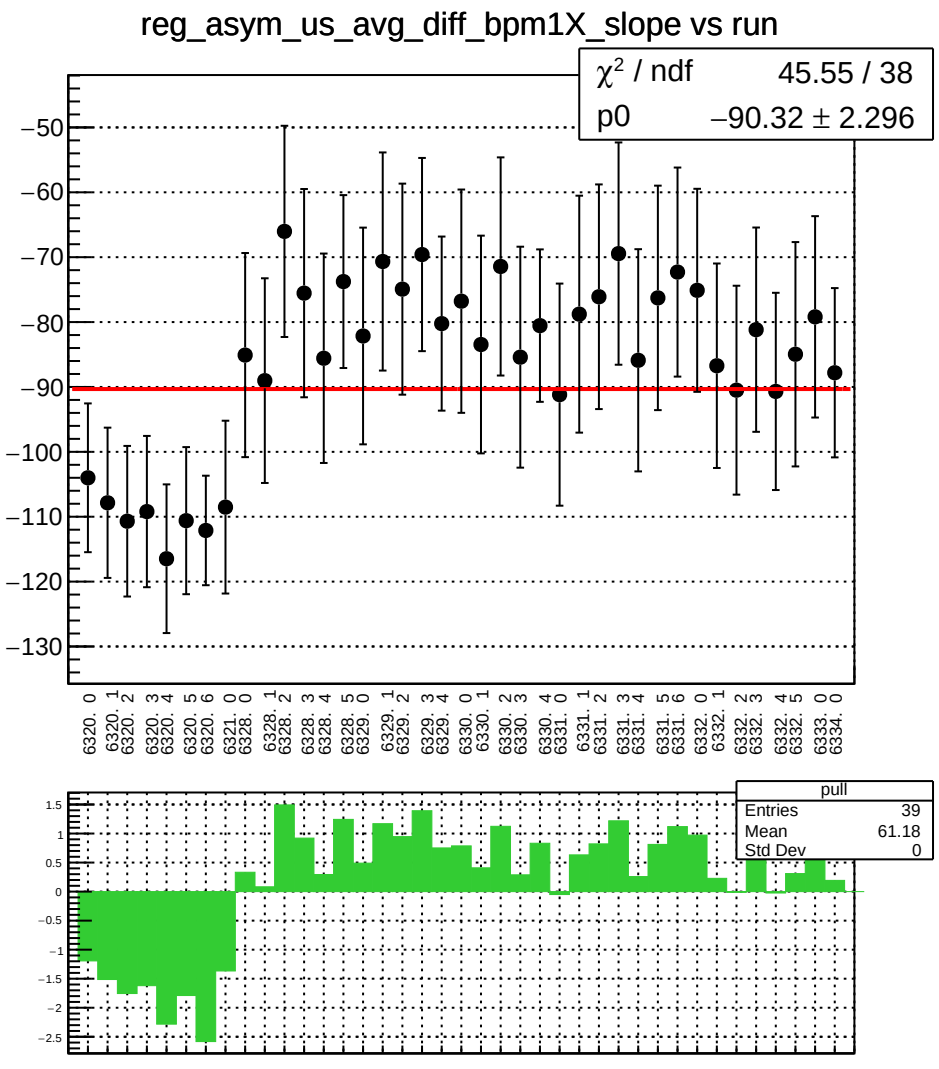

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 42.03 / 38
p0 −0.2209 ± 0.5618
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 82.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.04709
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

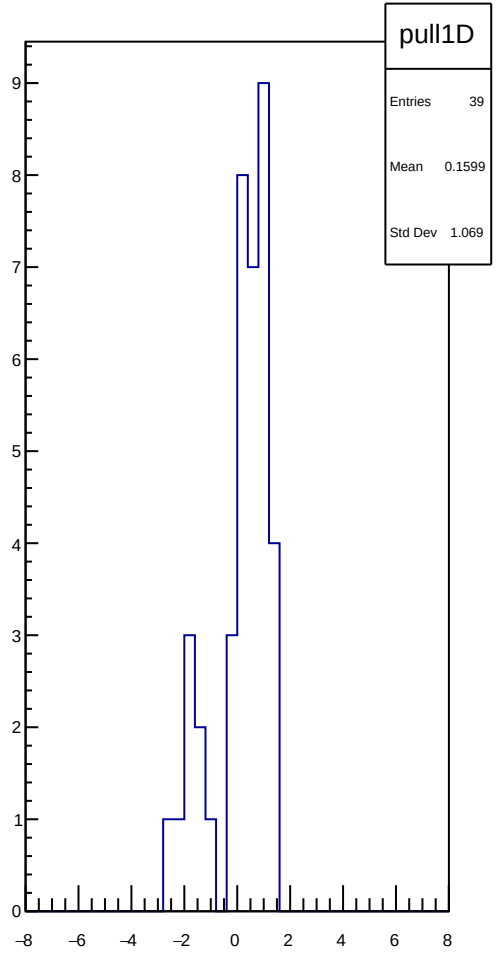

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 39.73 / 38
p0 −0.369 ± 0.4369
pull
Entries 39
Mean 364.2
Std Dev 0

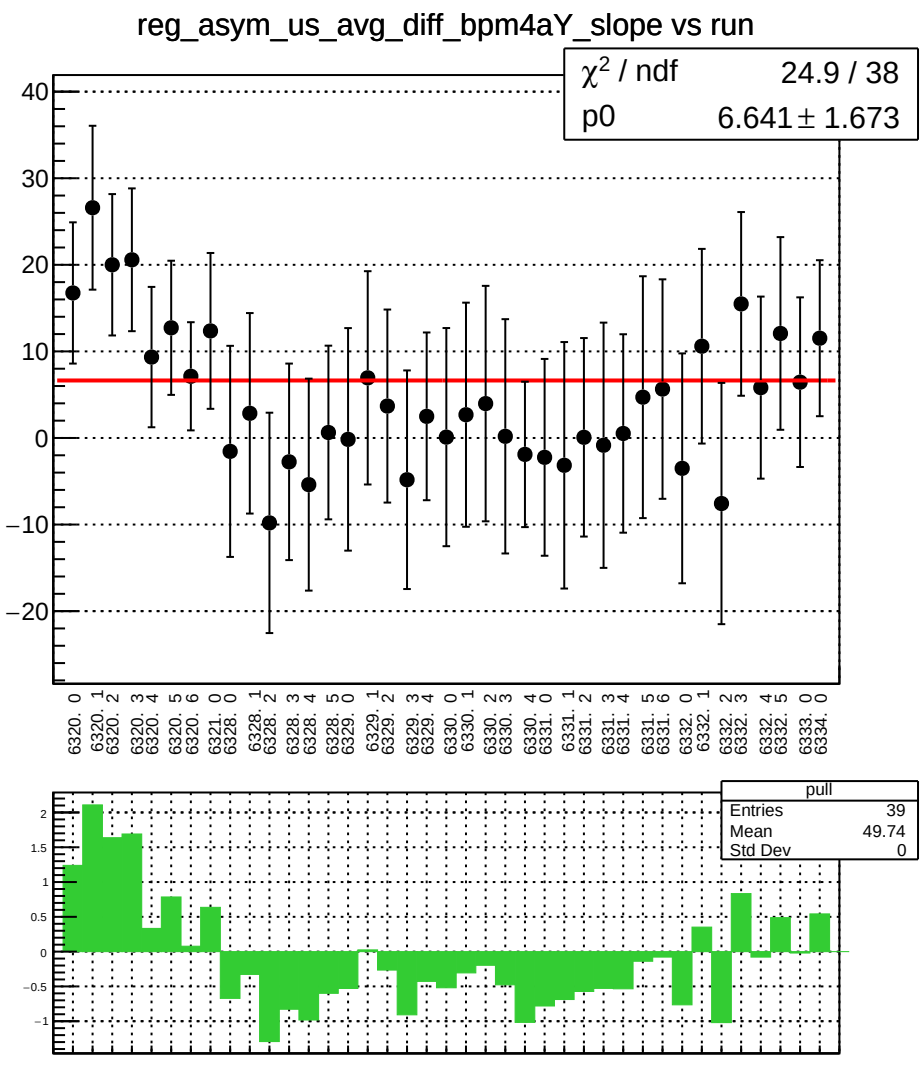

pull1D
Entries 39
Mean −0.01007
Std Dev 1.009

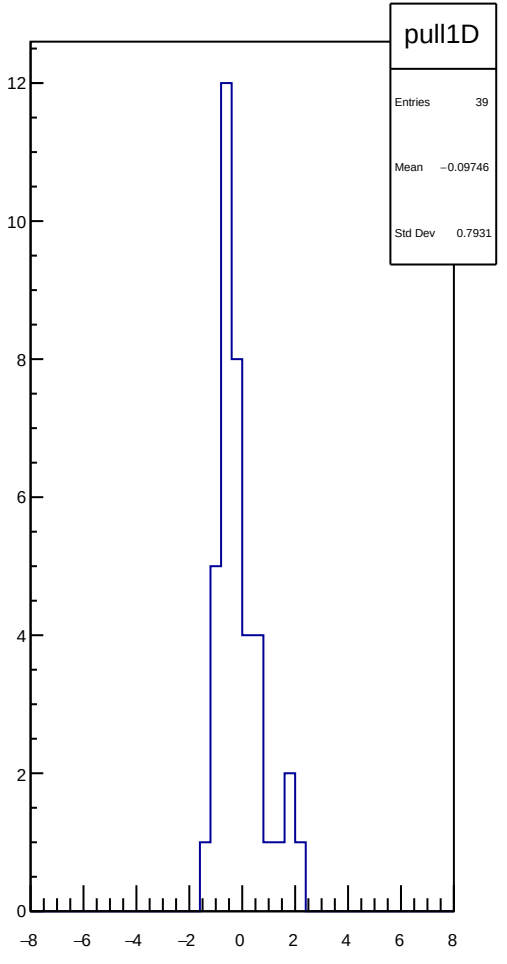

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 32.4 / 38
p0 −0.0007302 ± 0.02173
pull
Entries 39
Mean 1834
Std Dev 0

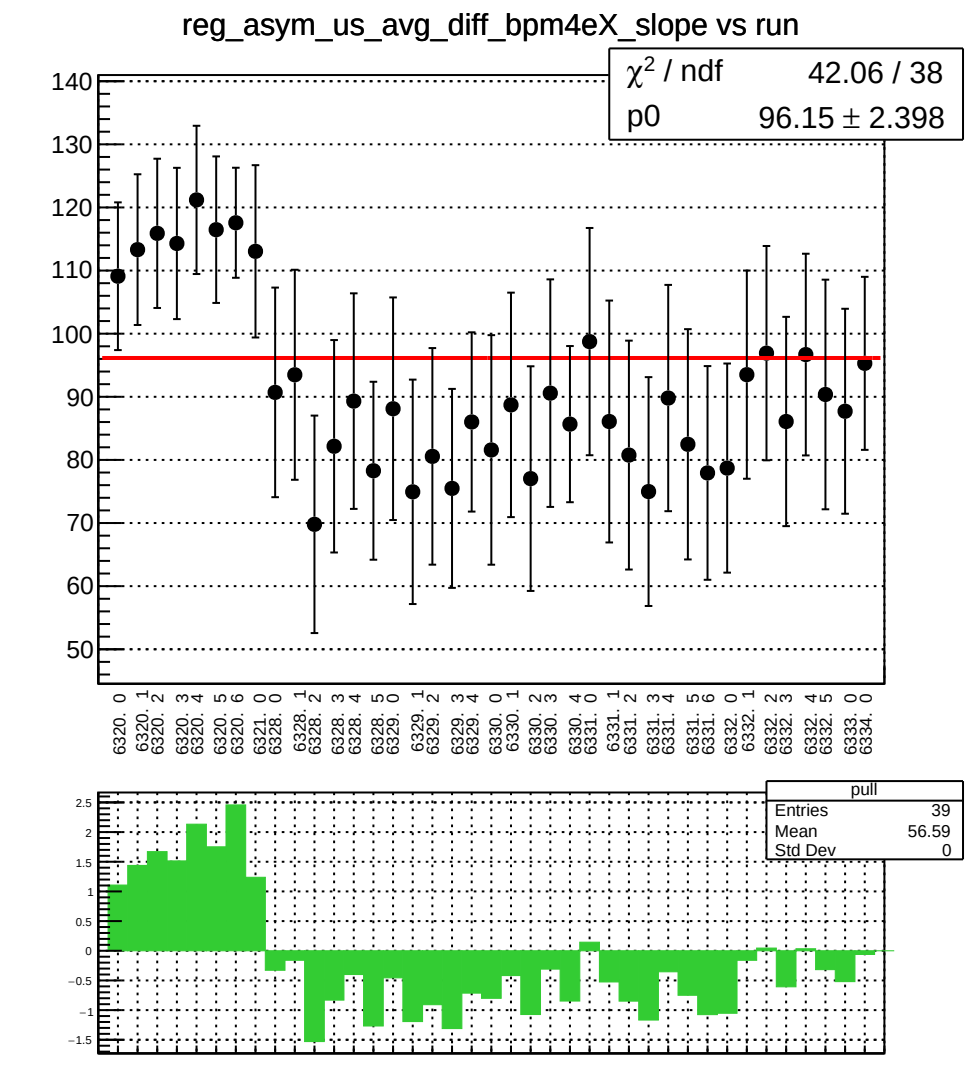

pull1D
Entries 39
Mean −0.0008511
Std Dev 0.9115

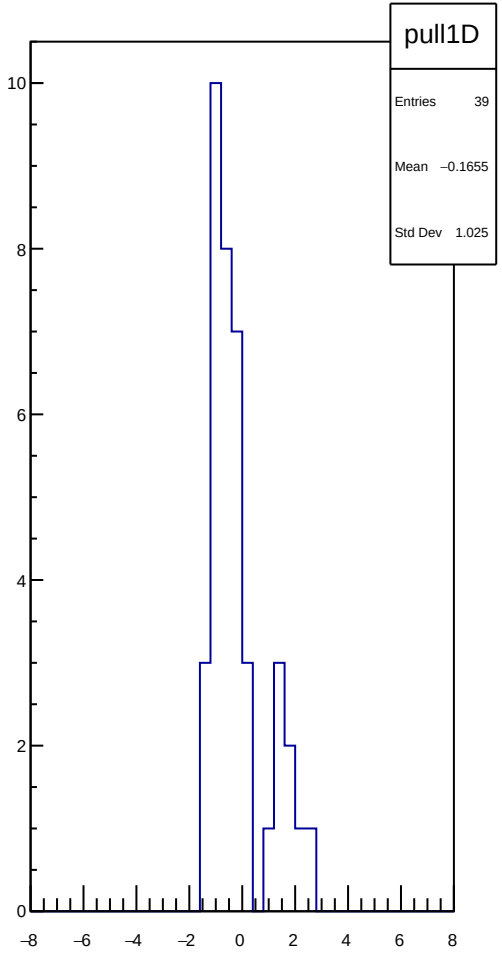

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 45.55 / 38
p0 −90.32 ± 2.296
pull
Entries 39
Mean 61.18
Std Dev 0

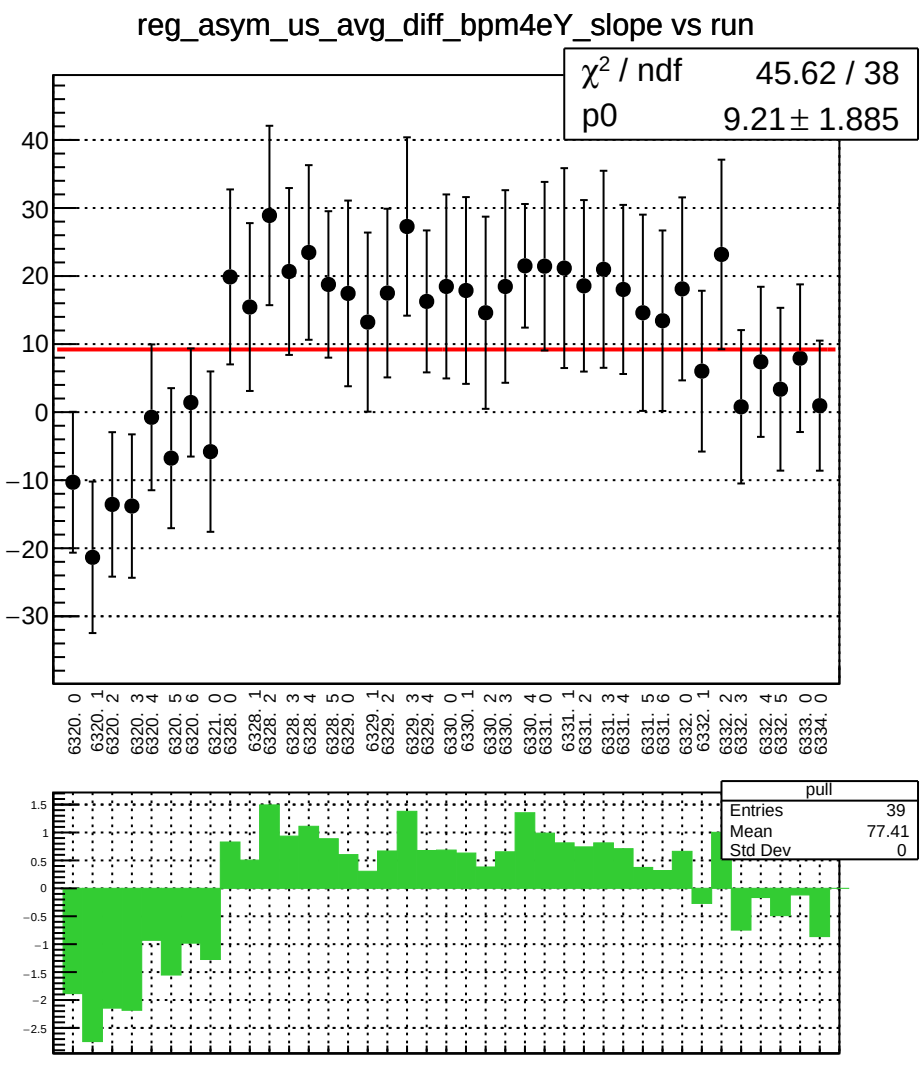

pull1D
Entries 39
Mean 0.1599
Std Dev 1.069

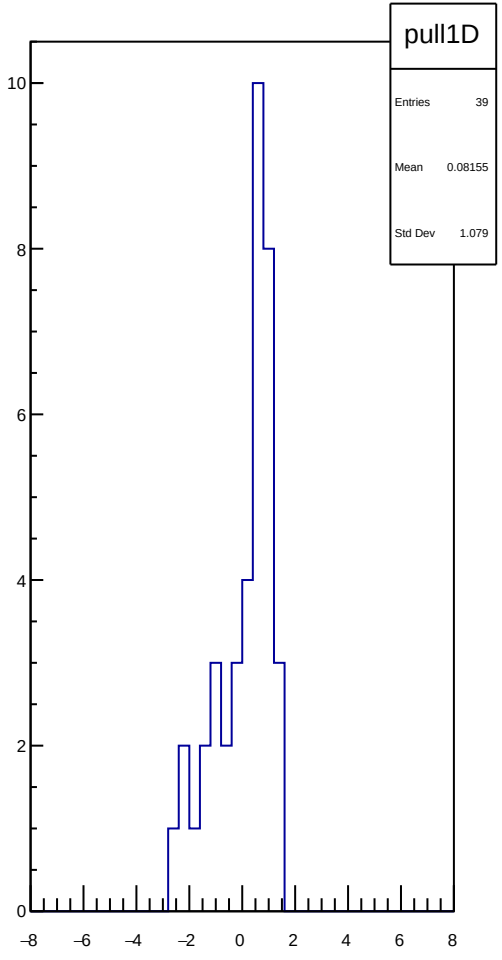

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.9 / 38
p0 6.641 ± 1.673
40
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

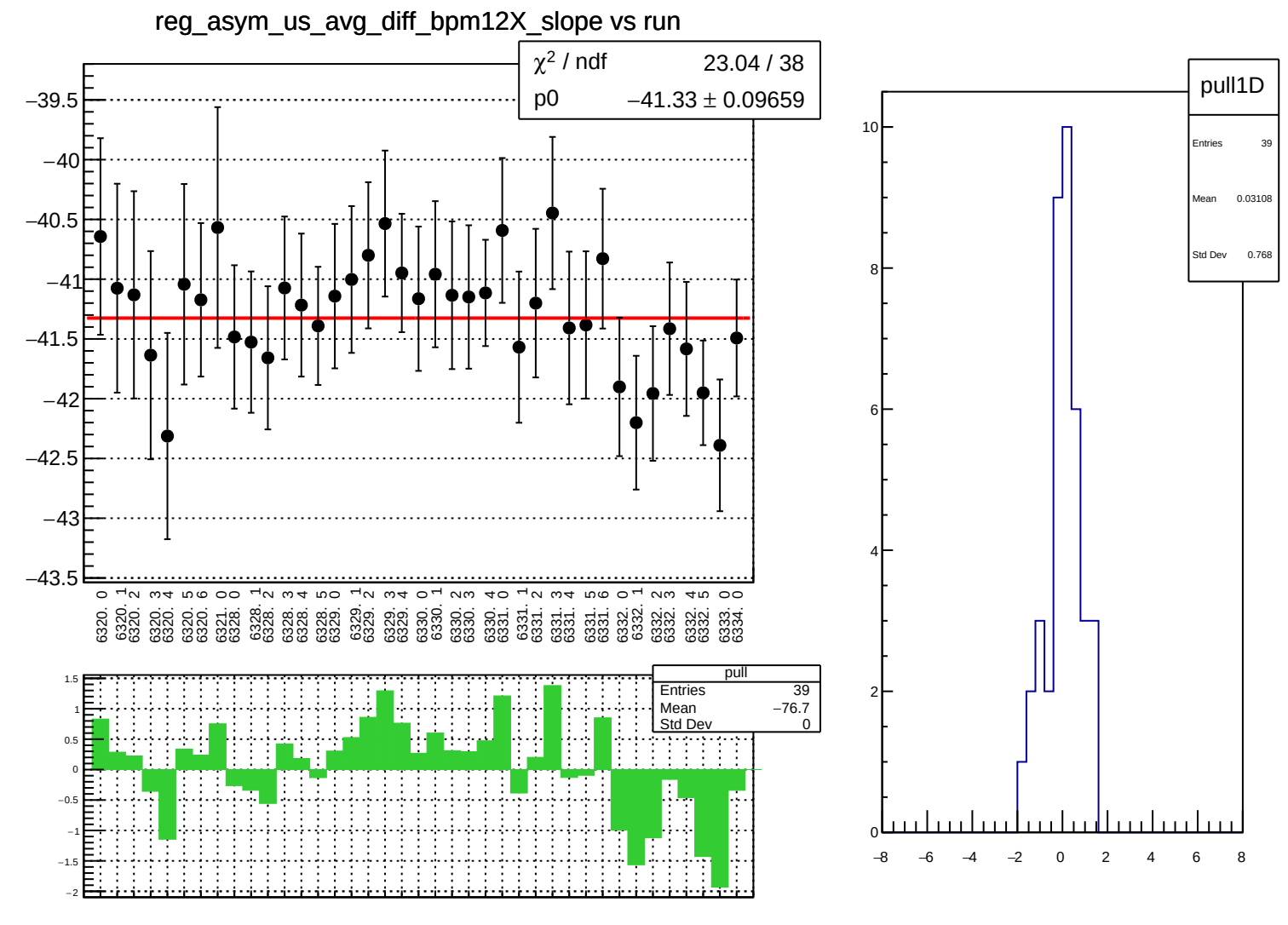

pull1D
Entries 39
Mean −0.09746
Std Dev 0.7931
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

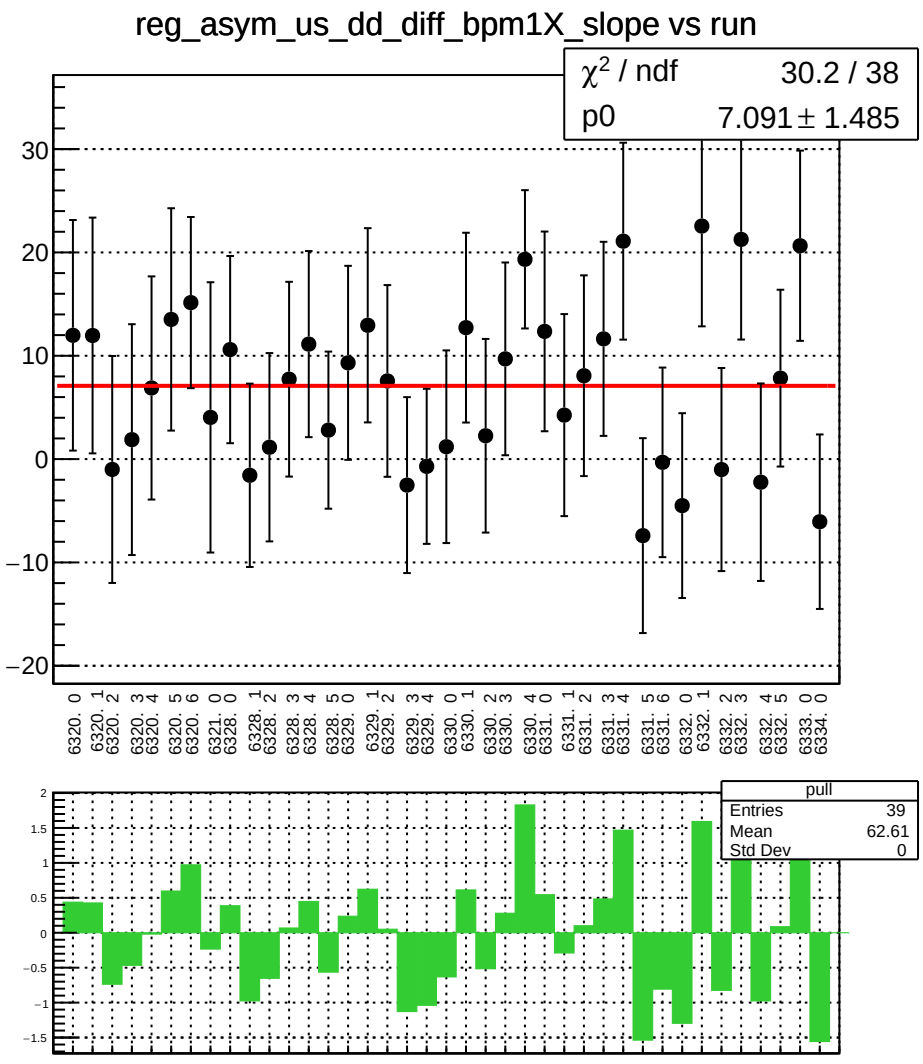

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.06 / 38
p0 96.15 ± 2.398
pull
Entries 39
Mean 56.59
Std Dev 0

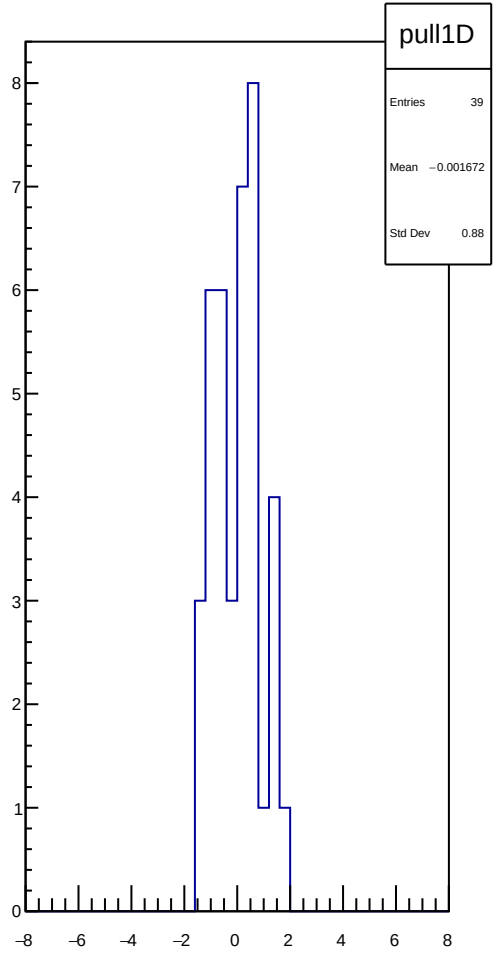

pull1D
Entries 39
Mean −0.1655
Std Dev 1.025

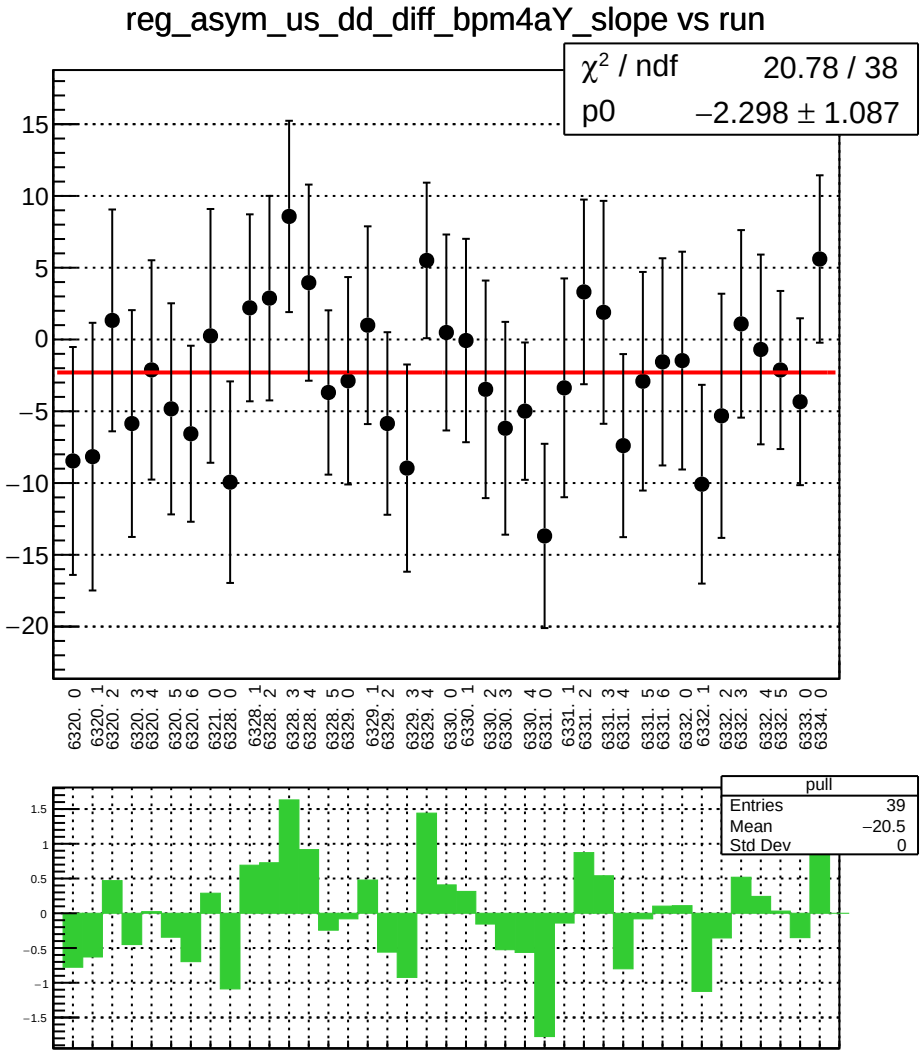

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.62 / 38
p0 9.21 ± 1.885
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 77.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

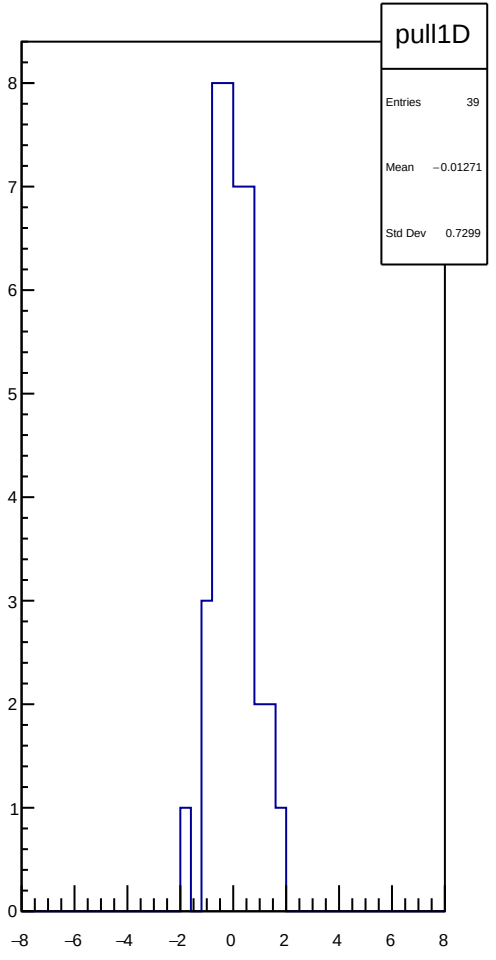

pull1D
Entries 39
Mean 0.08155
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

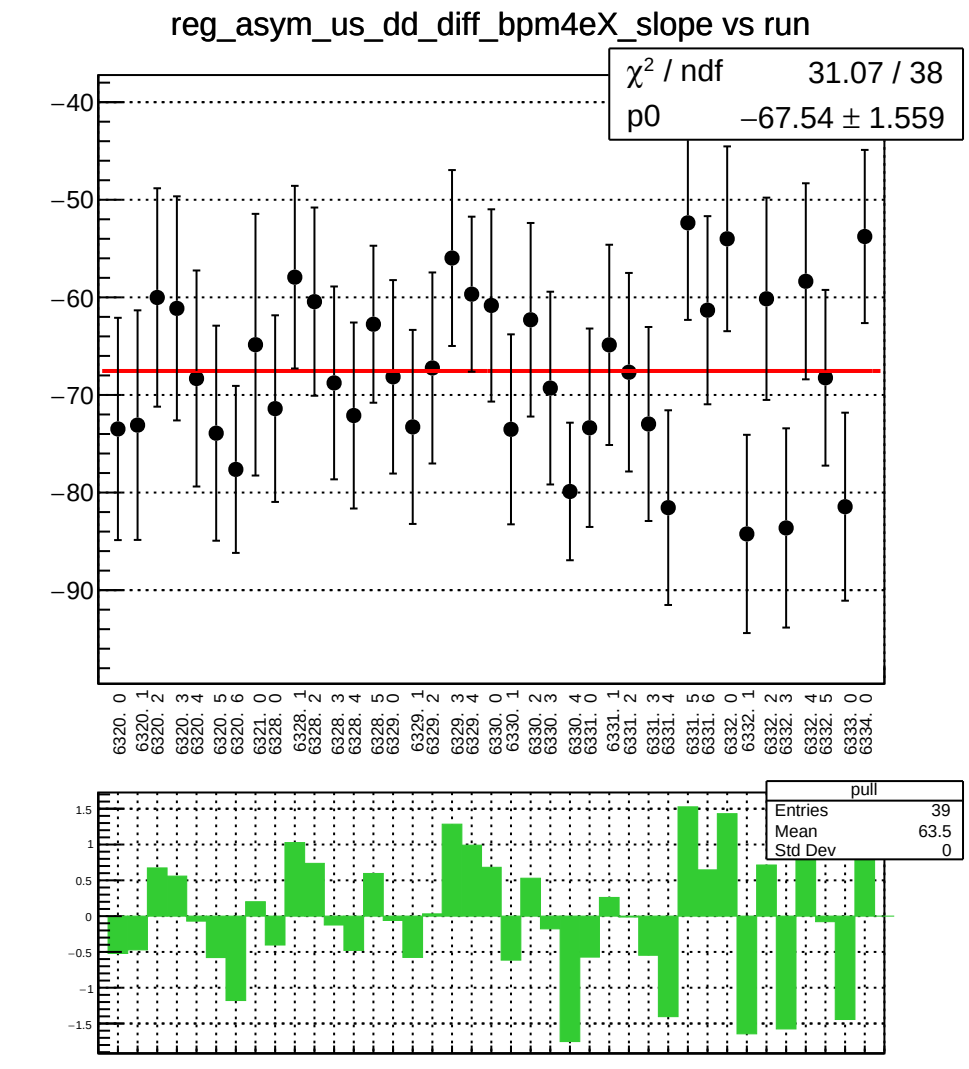

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 23.04 / 38
p0 −41.33 ± 0.09659
−39.5
−40
−40.5
−41
−41.5
−42
−42.5
−43
−43.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −76.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03108
Std Dev 0.768
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

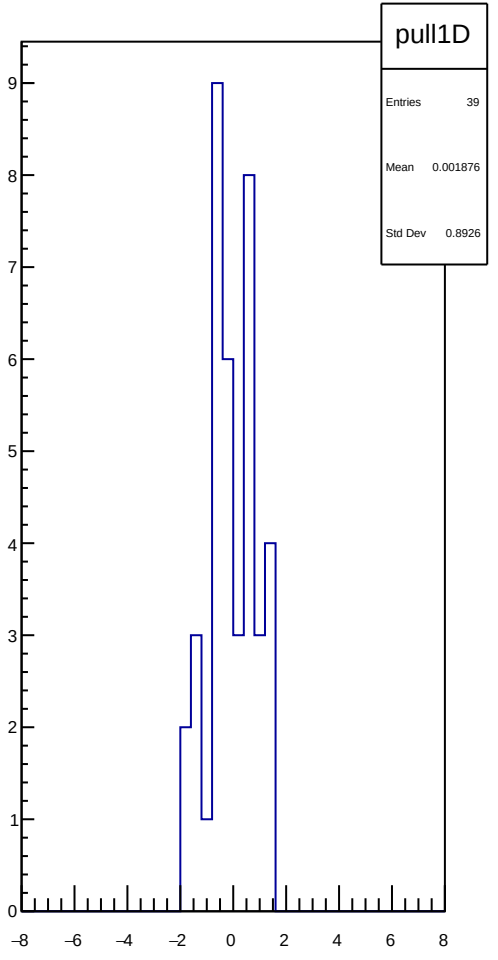

reg_asym_us_dd_diff_bpm1X_slope vs run
χ^2 / ndf 30.2 / 38
p0 7.091 ± 1.485
pull
Entries 39
Mean 62.61
Std Dev 0

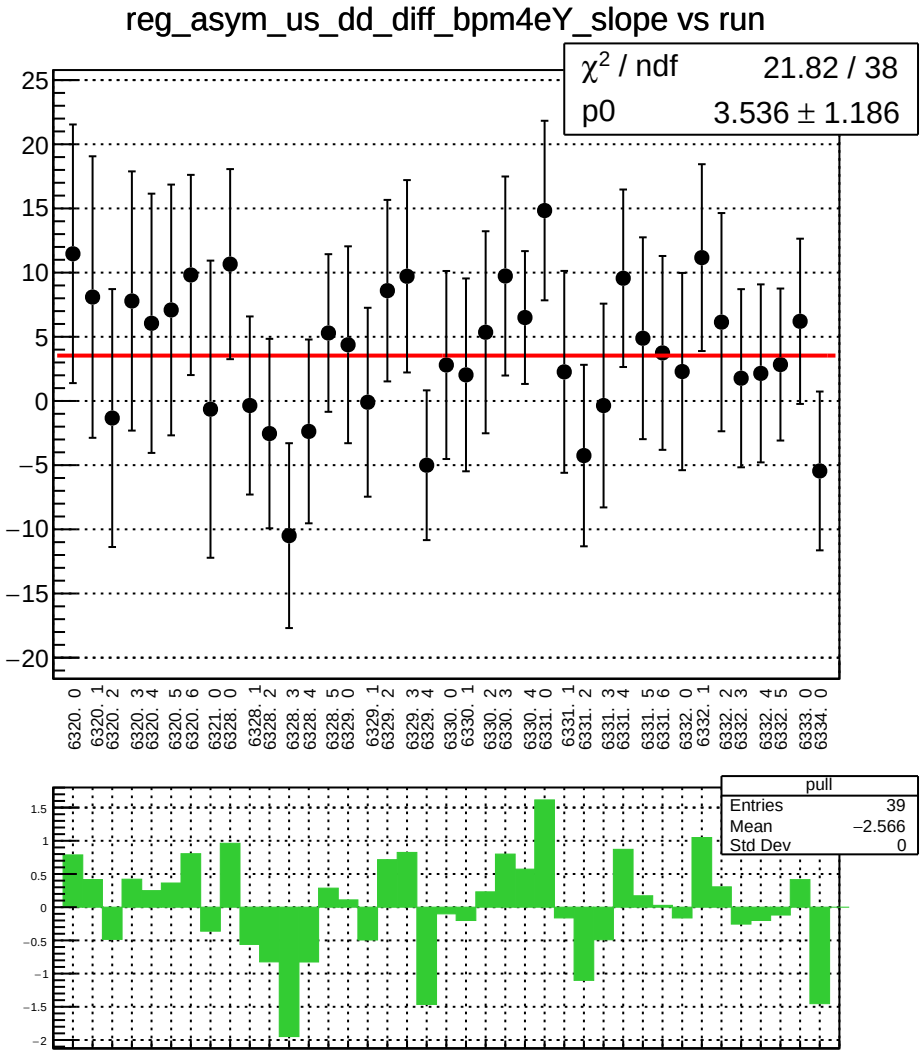

pull1D
Entries 39
Mean −0.001672
Std Dev 0.88

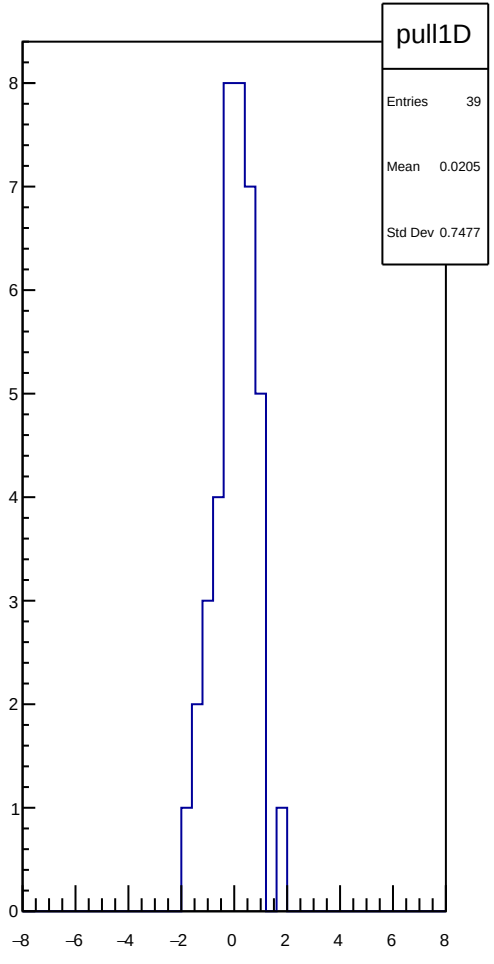

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.78 / 38
p0 −2.298 ± 1.087
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −20.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

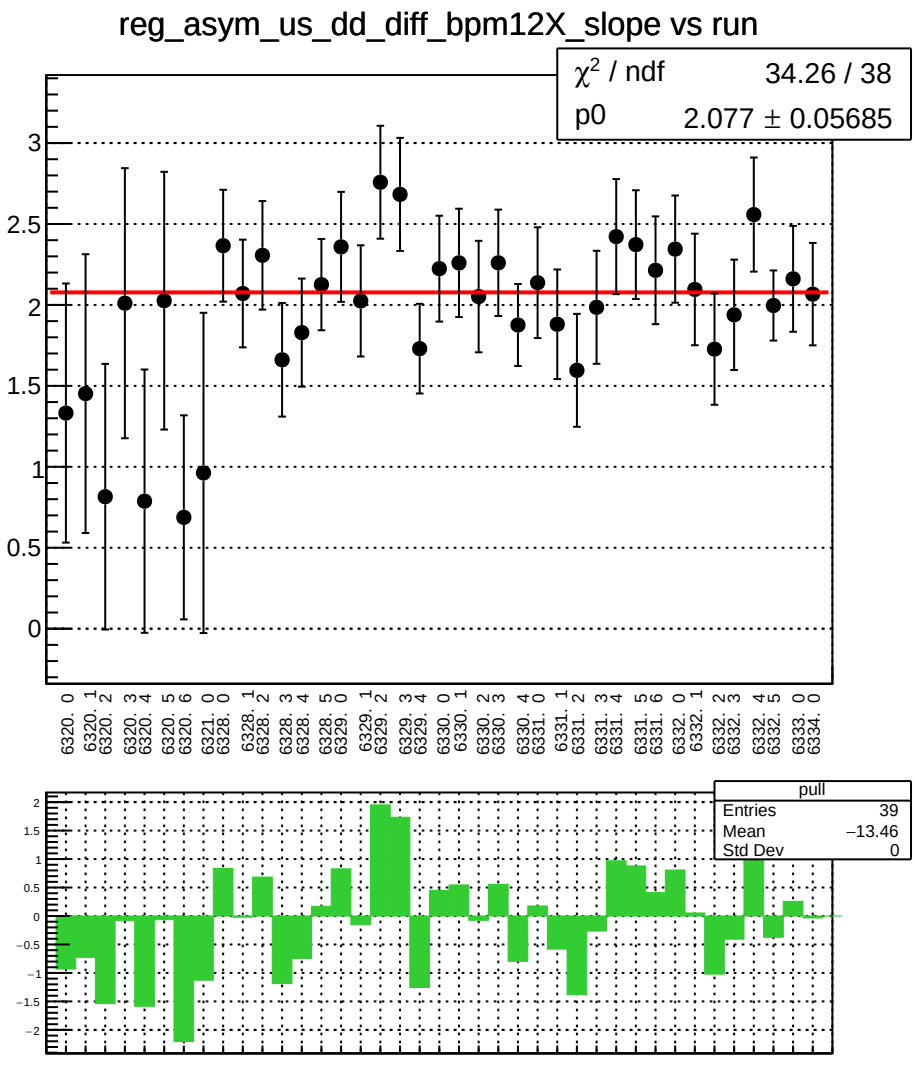

pull1D
Entries 39
Mean −0.01271
Std Dev 0.7299
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

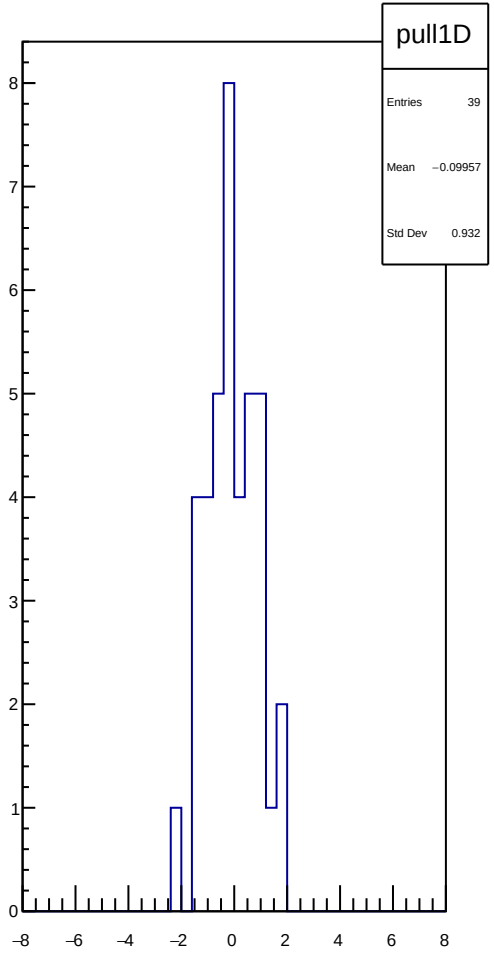

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.07 / 38
p0 −67.54 ± 1.559
−40
−50
−60
−70
−80
−90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 63.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

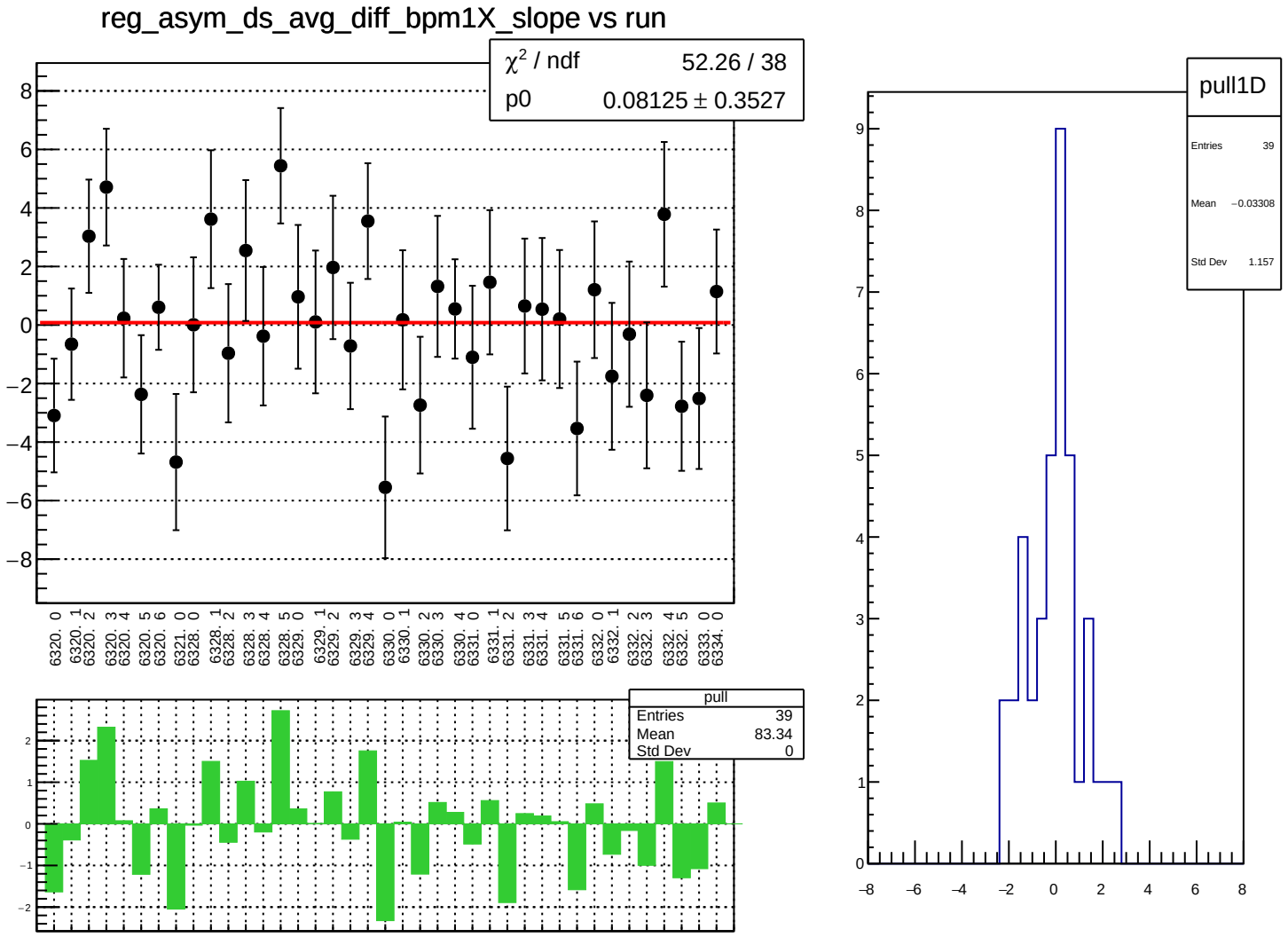

pull1D
Entries 39
Mean 0.001876
Std Dev 0.8926
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

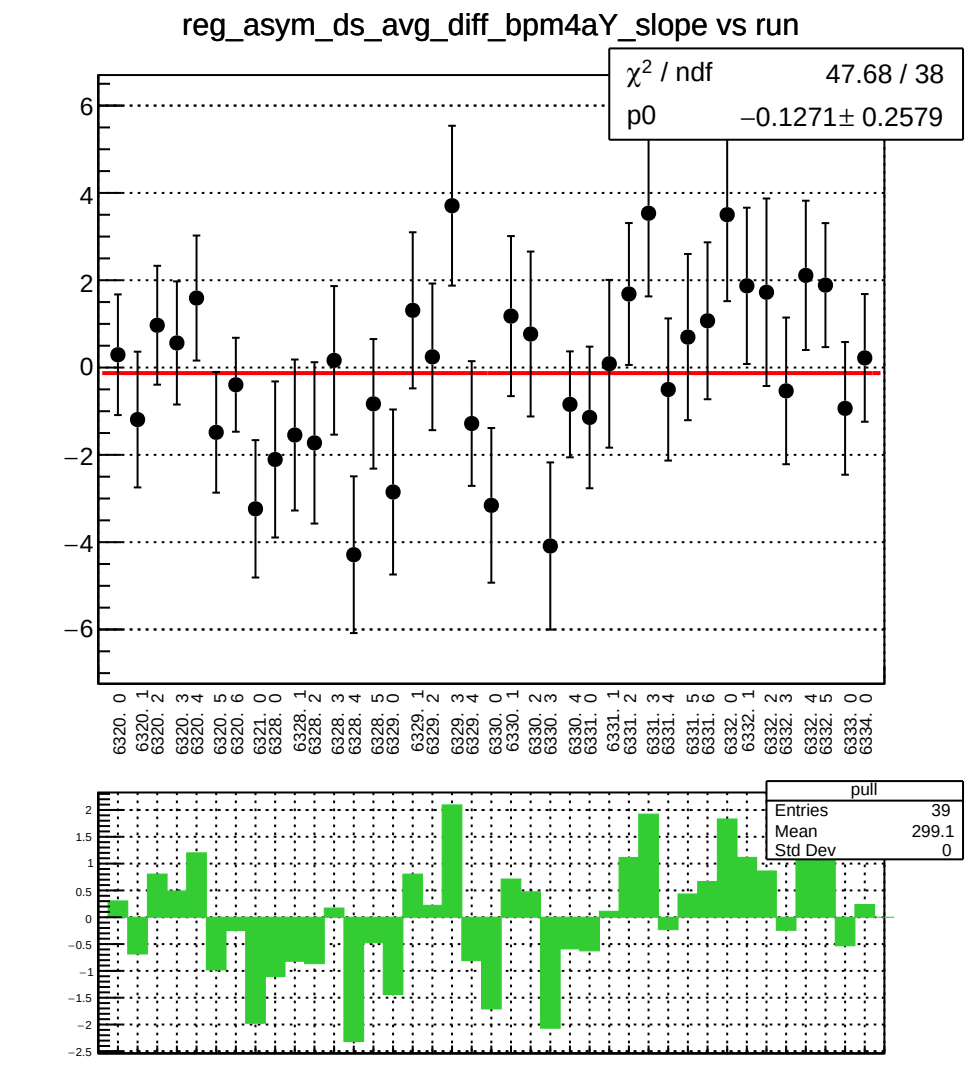

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.82 / 38
p0 3.536 ± 1.186
pull
Entries 39
Mean −2.566
Std Dev 0

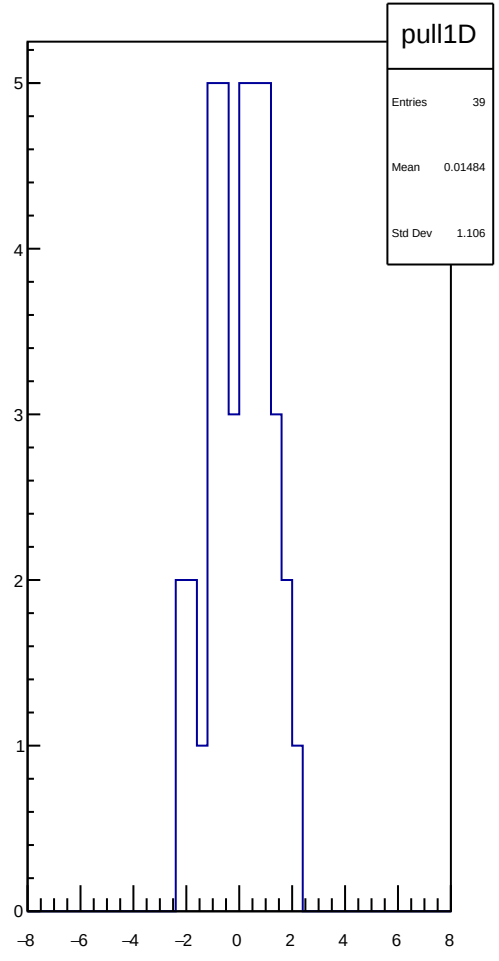

pull1D
Entries 39
Mean 0.0205
Std Dev 0.7477

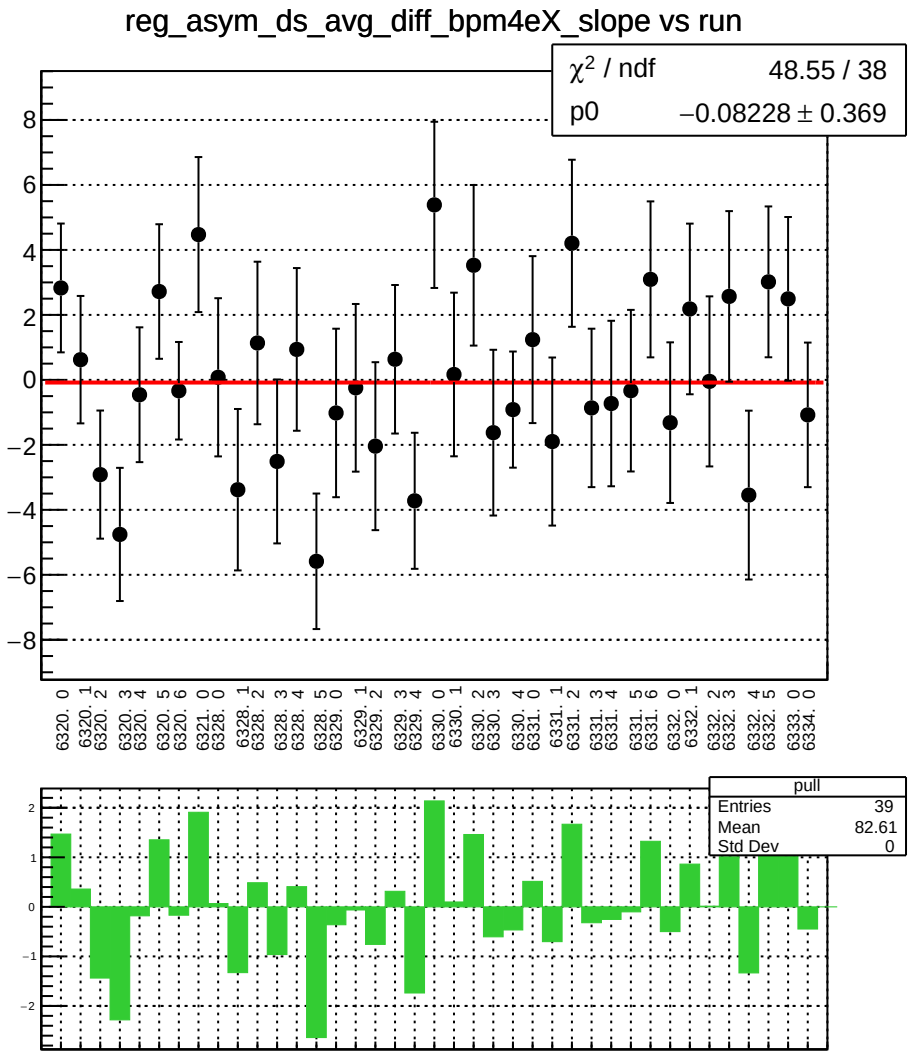

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 34.26 / 38
p0 2.077 ± 0.05685
pull
Entries 39
Mean −13.46
Std Dev 0

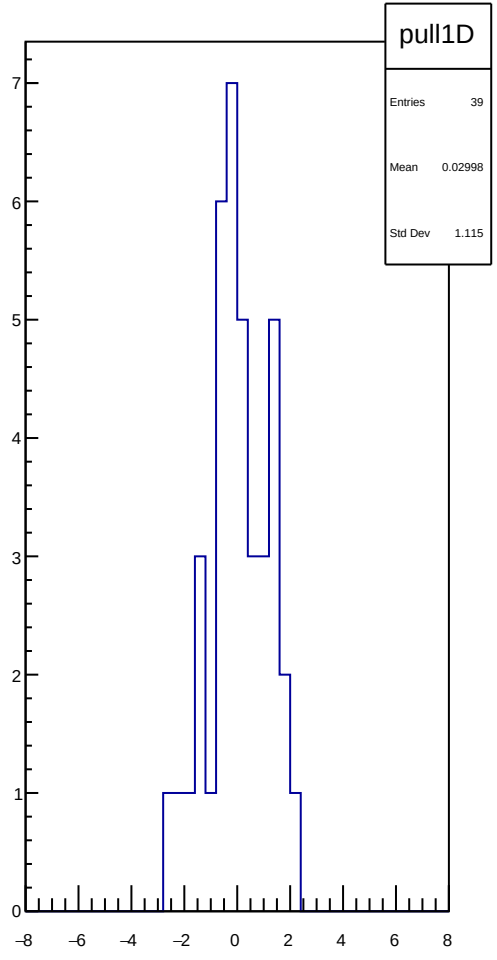

pull1D
Entries 39
Mean −0.09957
Std Dev 0.932

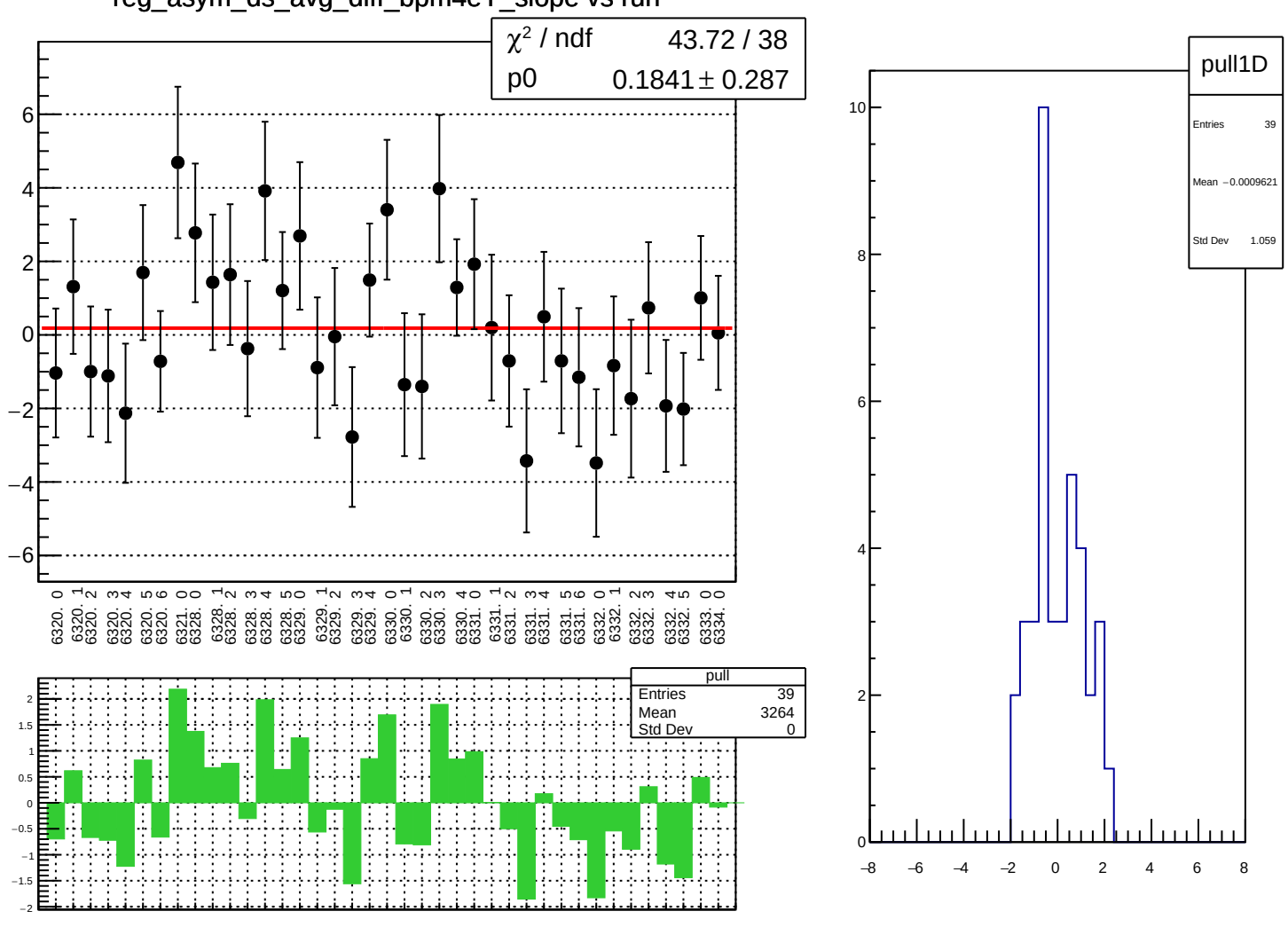

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 52.26 / 38
p0 0.08125 ± 0.3527
pull
Entries 39
Mean 83.34
Std Dev 0
pull1D
Entries 39
Mean −0.03308
Std Dev 1.157

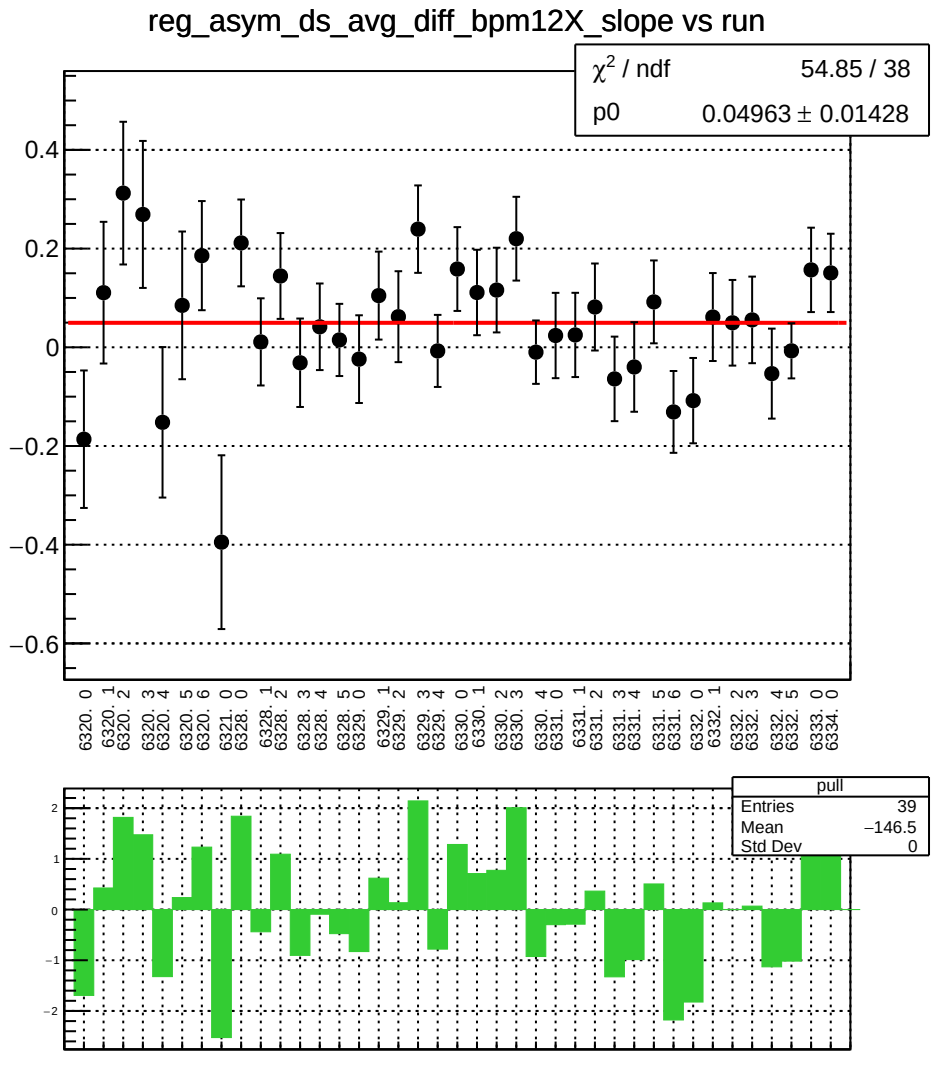

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.68 / 38
p0 −0.1271± 0.2579
pull
Entries 39
Mean 299.1
Std Dev 0

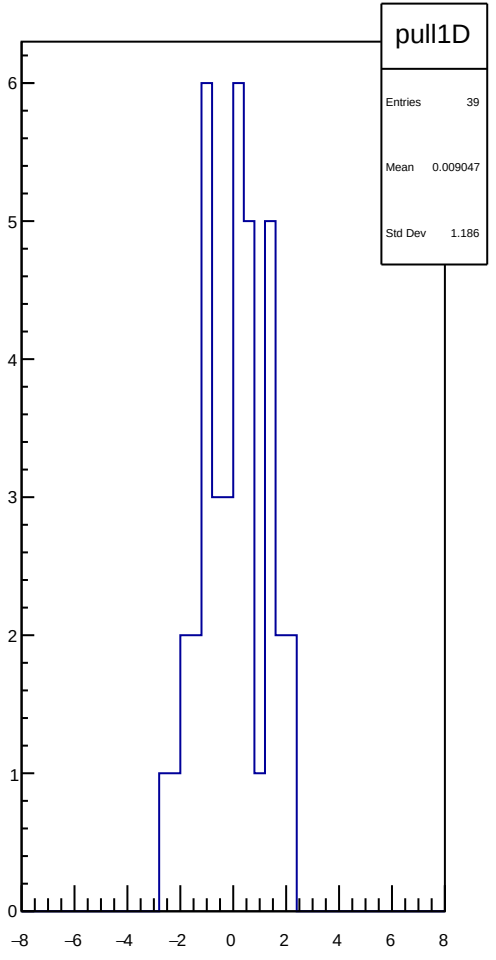

pull1D
Entries 39
Mean 0.01484
Std Dev 1.106

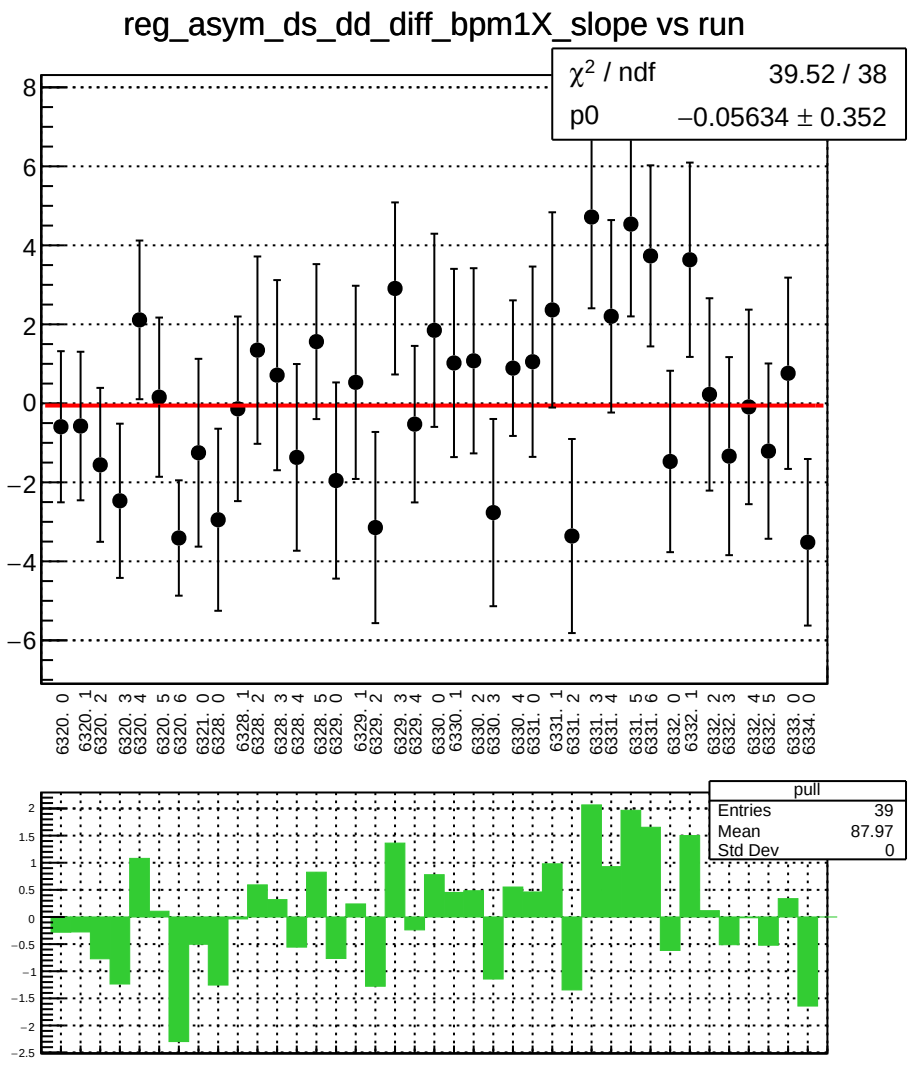

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.55 / 38
p0 −0.08228 ± 0.369
pull
Entries 39
Mean 82.61
Std Dev 0

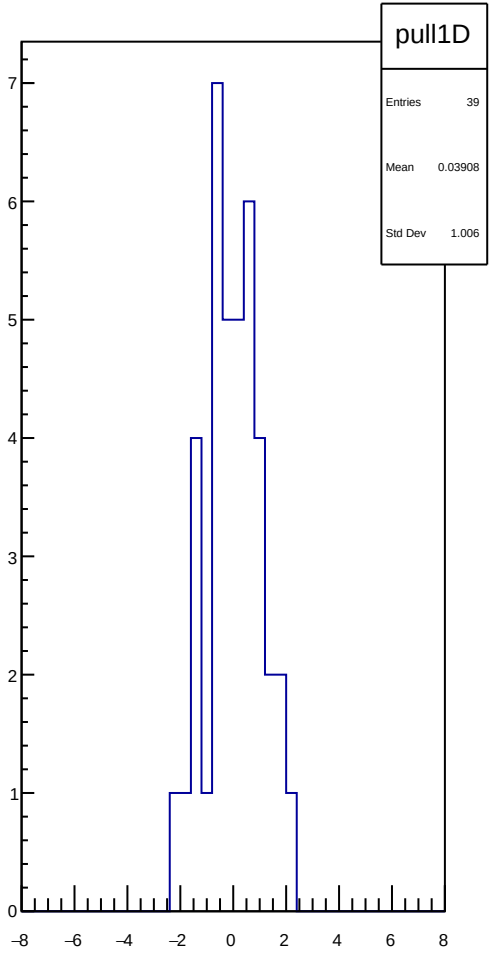

pull1D
Entries 39
Mean 0.02998
Std Dev 1.115

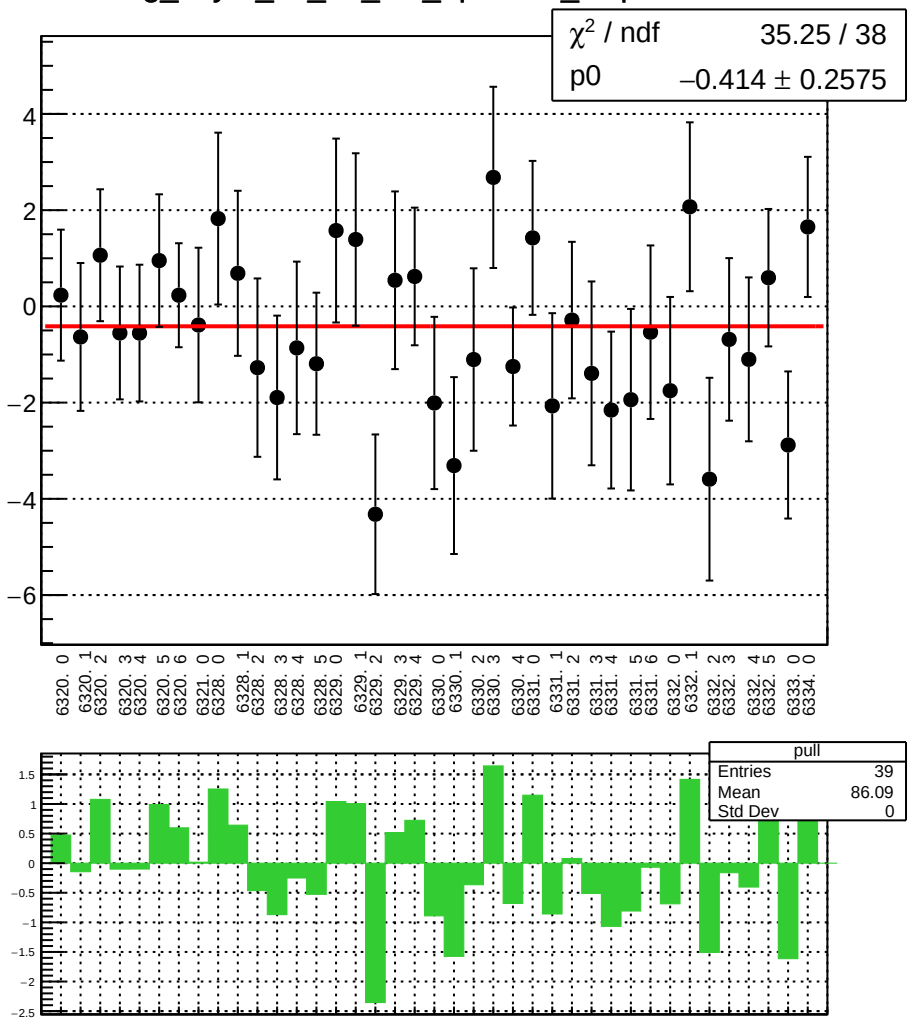

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.72 / 38
p0 0.1841 ± 0.287
pull
Entries 39
Mean 3264
Std Dev 0
pull1D
Entries 39
Mean −0.0009621
Std Dev 1.059

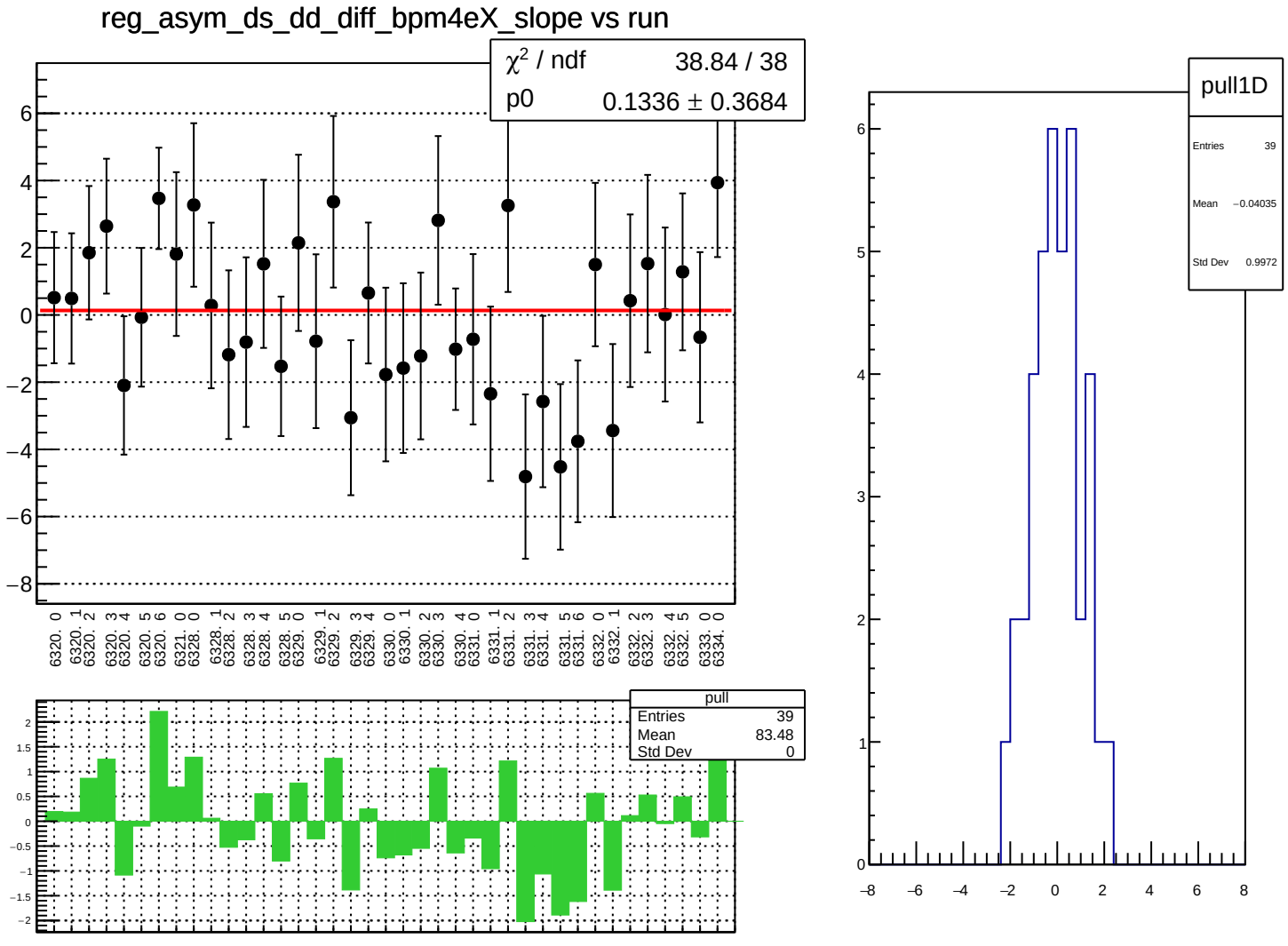

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 54.85 / 38
p0 0.04963 ± 0.01428
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −146.5
Std Dev 0
2
1
0
−1
−2

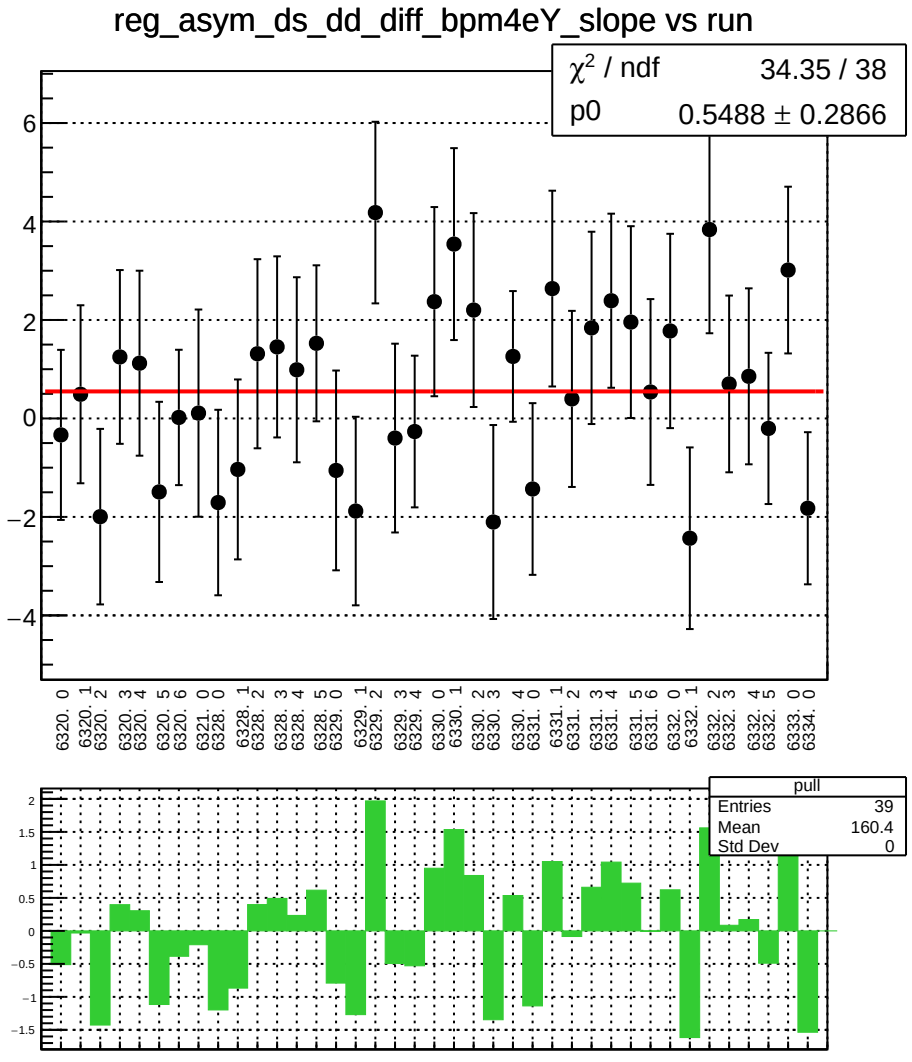

pull1D
Entries 39
Mean 0.009047
Std Dev 1.186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

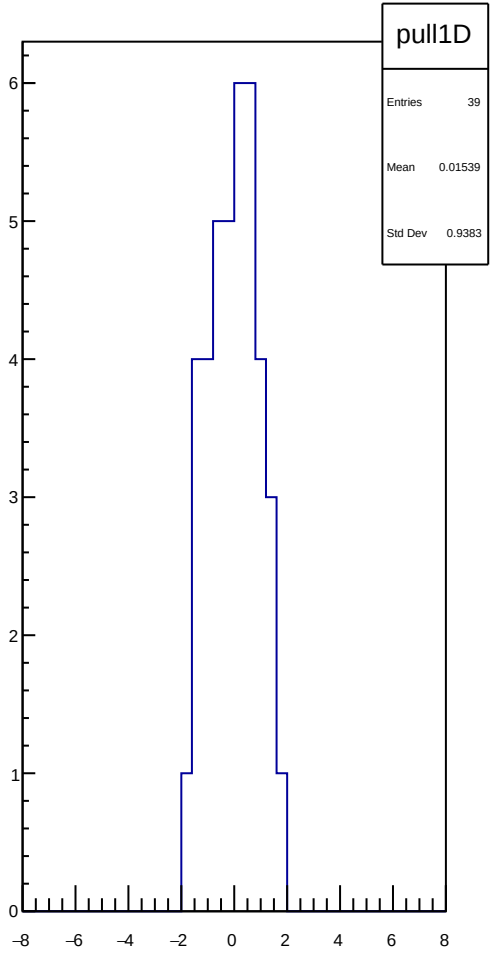

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 39.52 / 38
p0 −0.05634 ± 0.352
pull
Entries 39
Mean 87.97
Std Dev 0

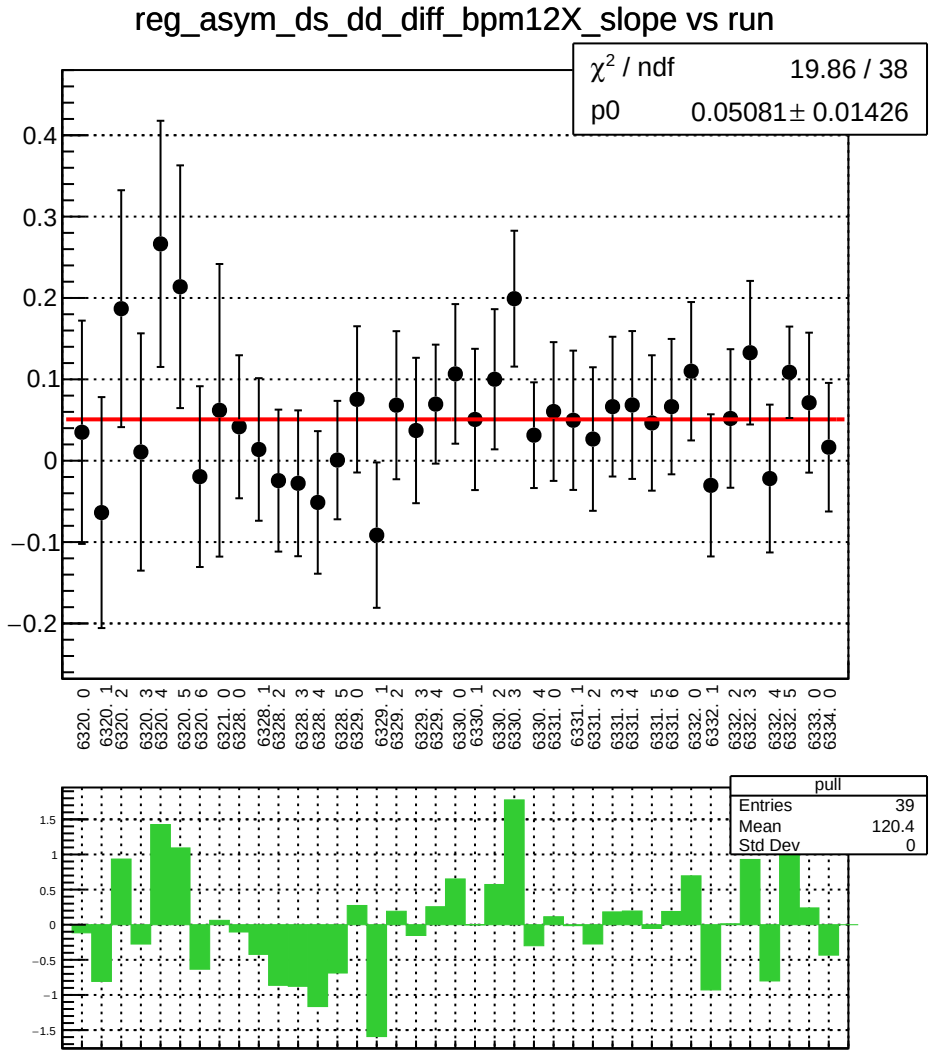

pull1D
Entries 39
Mean 0.03908
Std Dev 1.006

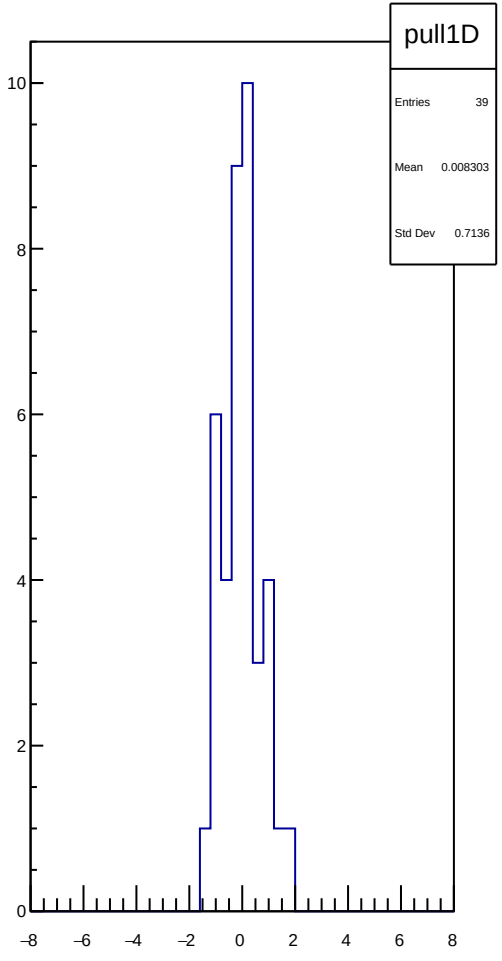

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.25 / 38
p0 −0.414 ± 0.2575
pull
Entries 39
Mean 86.09
Std Dev 0
pull1D
Entries 39
Mean −0.03196
Std Dev 0.9502

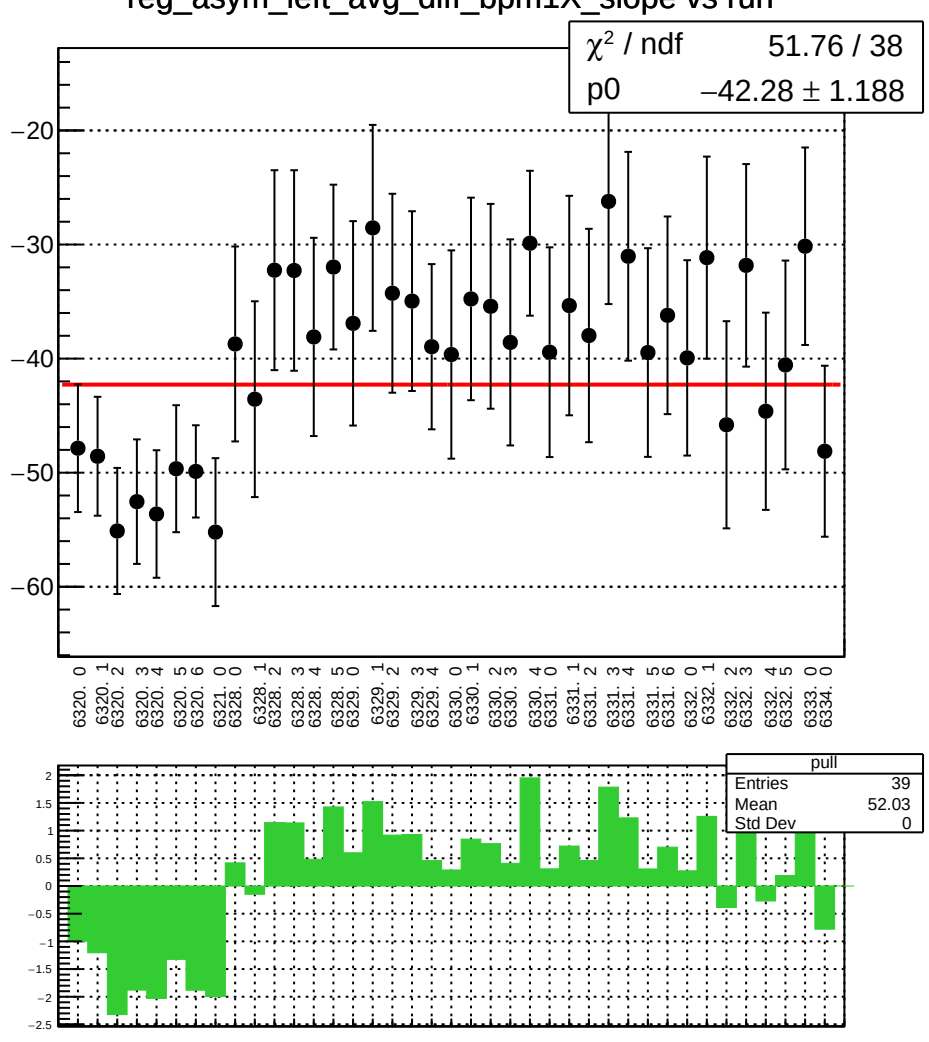

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.84 / 38
p0 0.1336 ± 0.3684
pull
Entries 39
Mean 83.48
Std Dev 0
pull1D
Entries 39
Mean −0.04035
Std Dev 0.9972

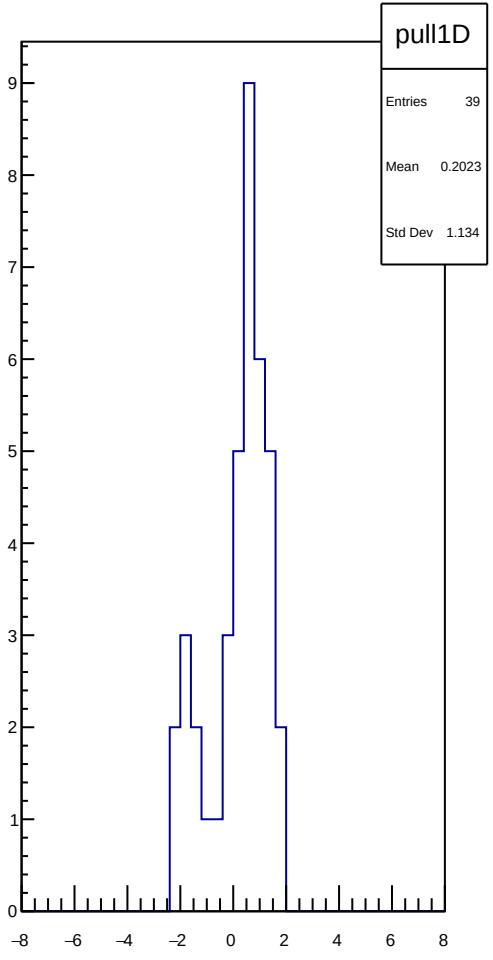

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.35 / 38
p0 0.5488 ± 0.2866
pull
Entries 39
Mean 160.4
Std Dev 0

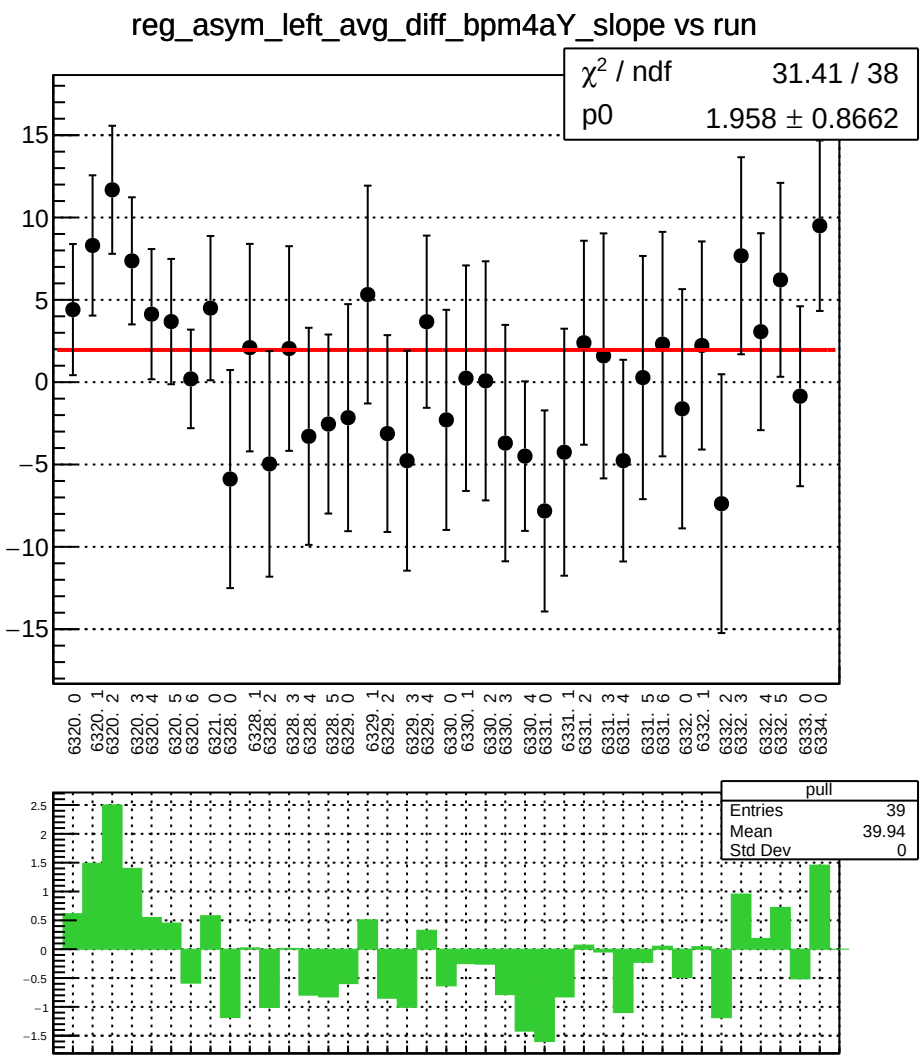

pull1D
Entries 39
Mean 0.01539
Std Dev 0.9383

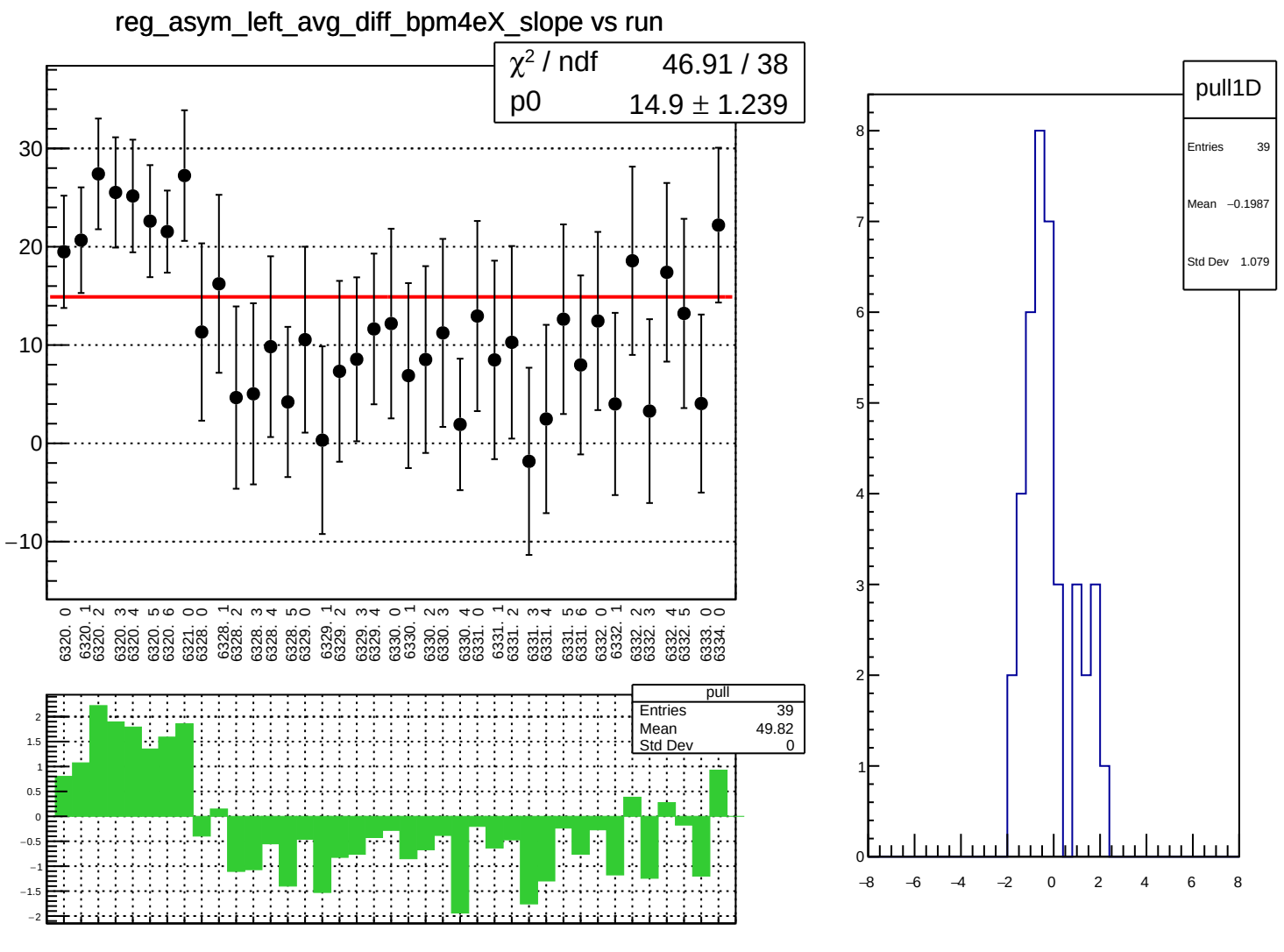

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 19.86 / 38
p0 0.05081 ± 0.01426
pull
Entries 39
Mean 120.4
Std Dev 0

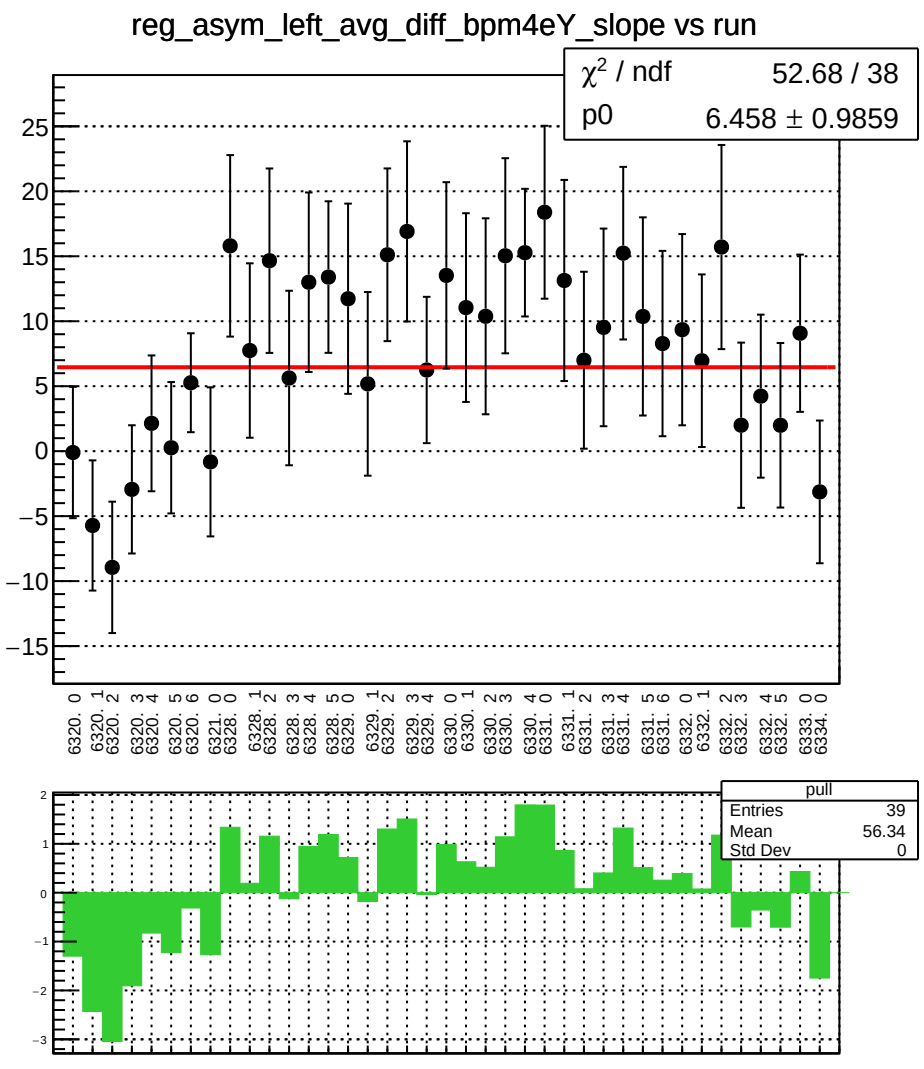

pull1D
Entries 39
Mean 0.008303
Std Dev 0.7136

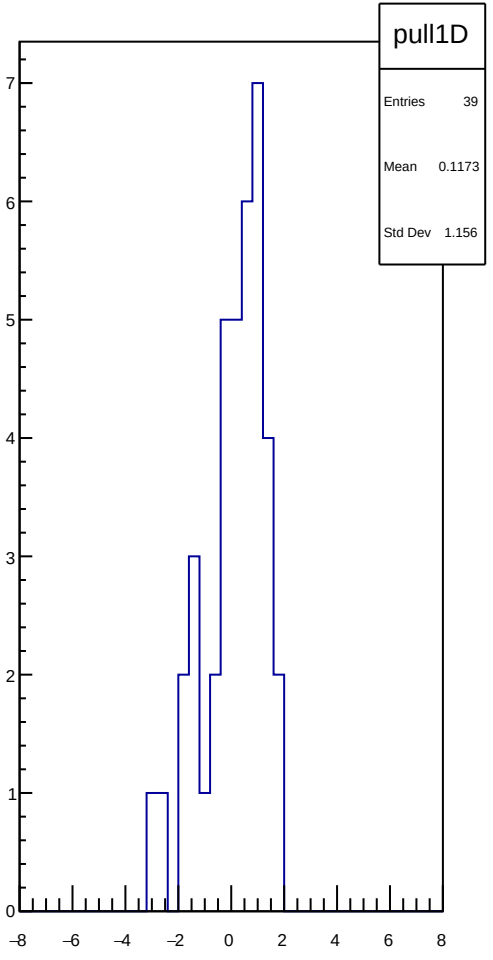

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 51.76 / 38
p0 −42.28 ± 1.188
−20
−30
−40
−50
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 52.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

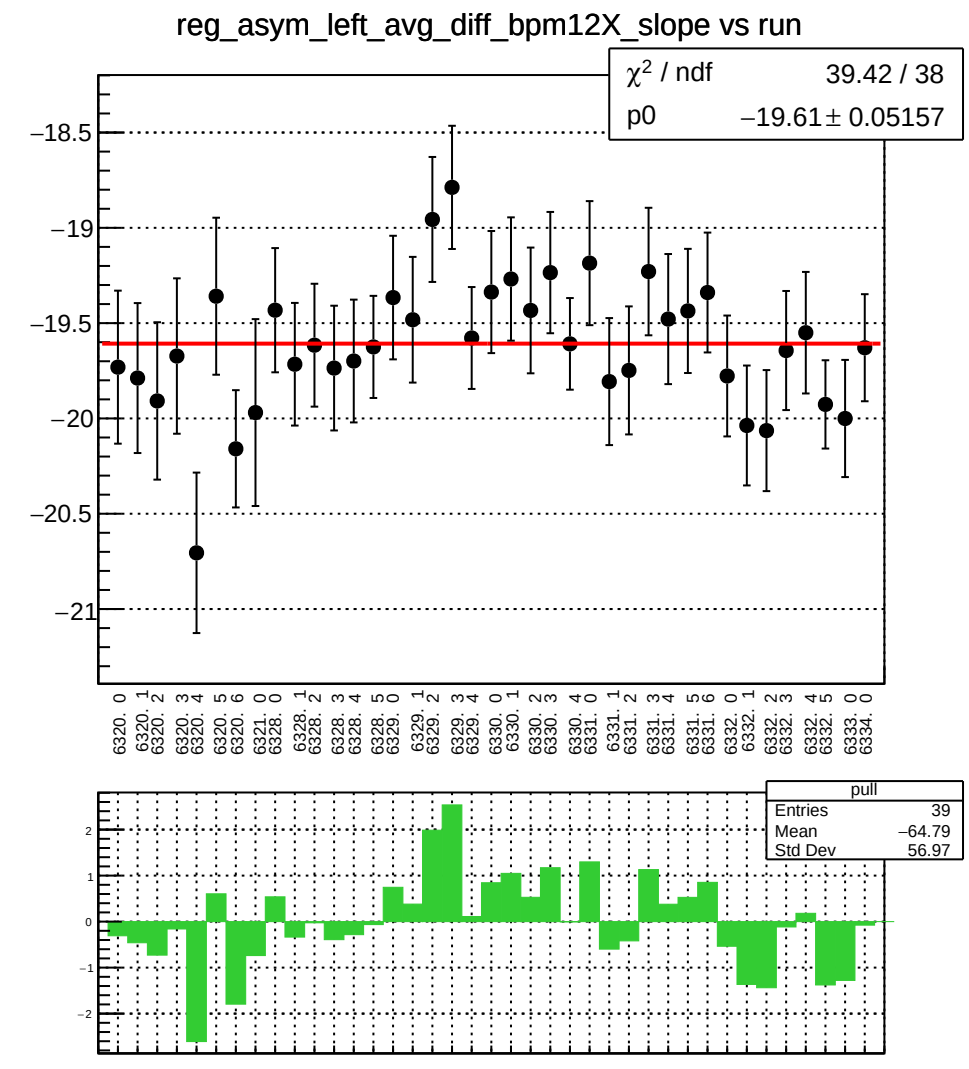

pull1D
Entries 39
Mean 0.2023
Std Dev 1.134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

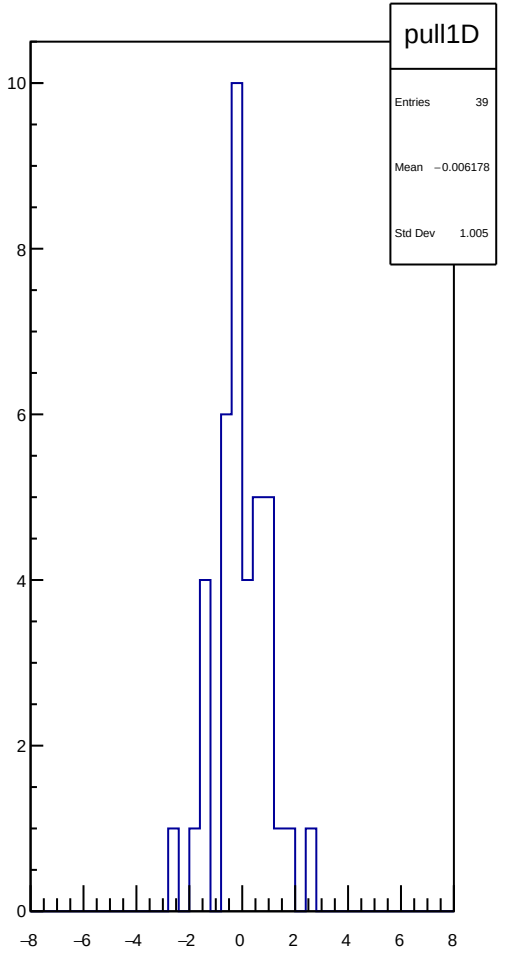

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.41 / 38
p0 1.958 ± 0.8662
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.1092
Std Dev 0.8907
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

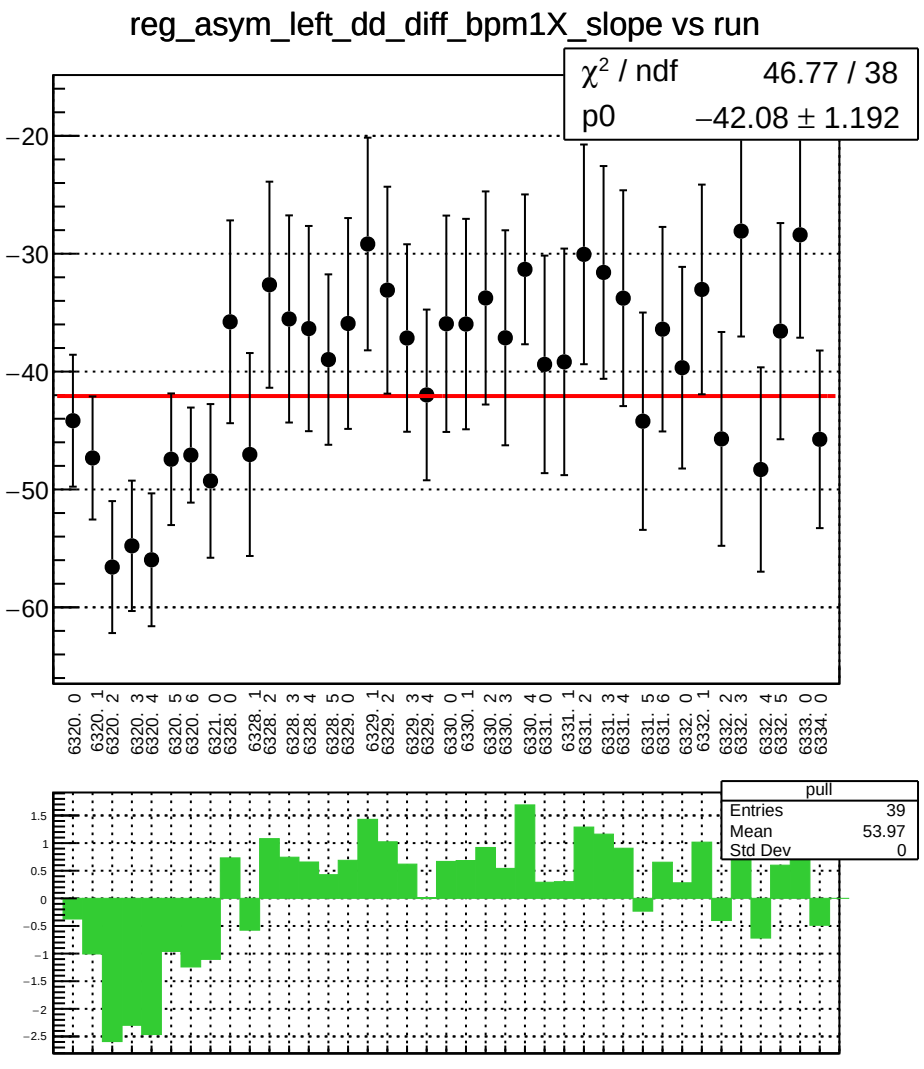

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.91 / 38
p0 14.9 ± 1.239
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1987
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

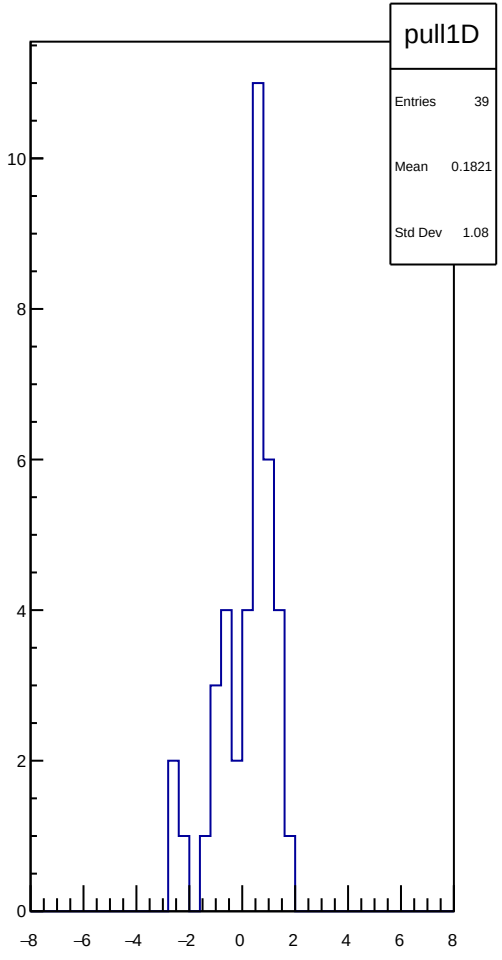

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.68 / 38
p0 6.458 ± 0.9859
pull
Entries 39
Mean 56.34
Std Dev 0

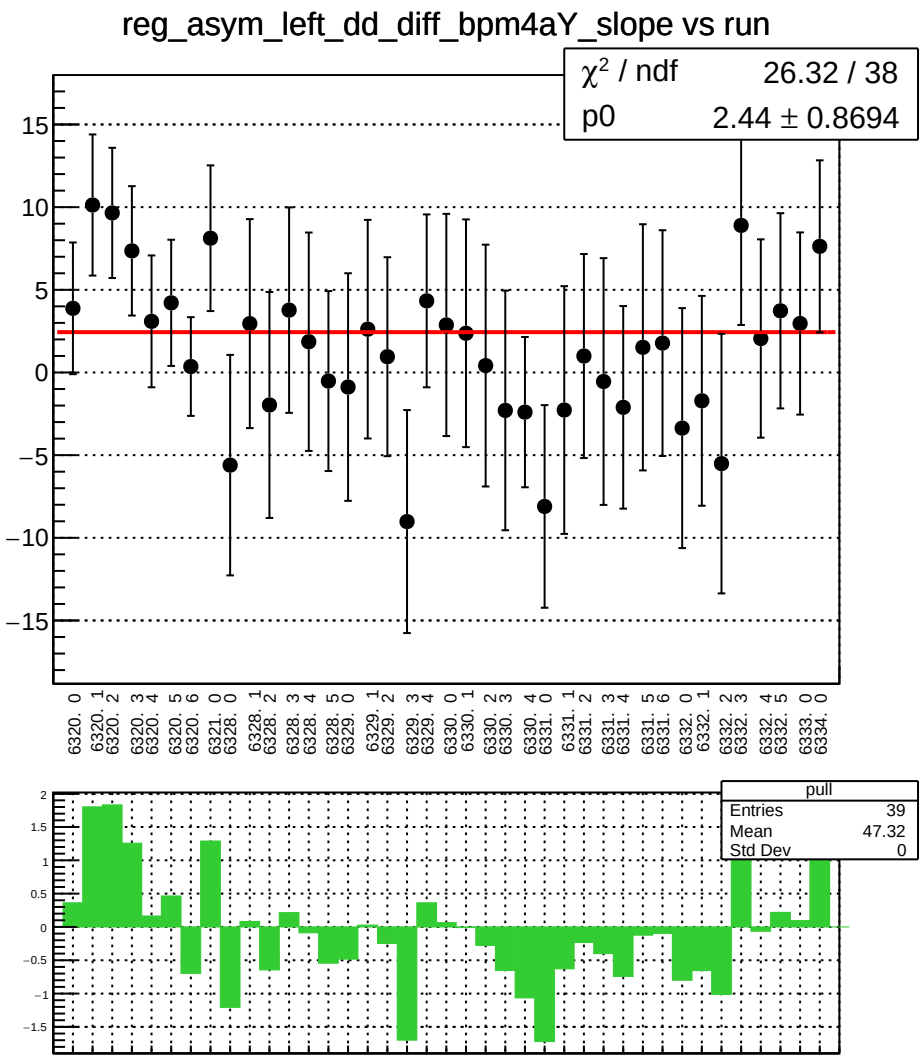

pull1D
Entries 39
Mean 0.1173
Std Dev 1.156

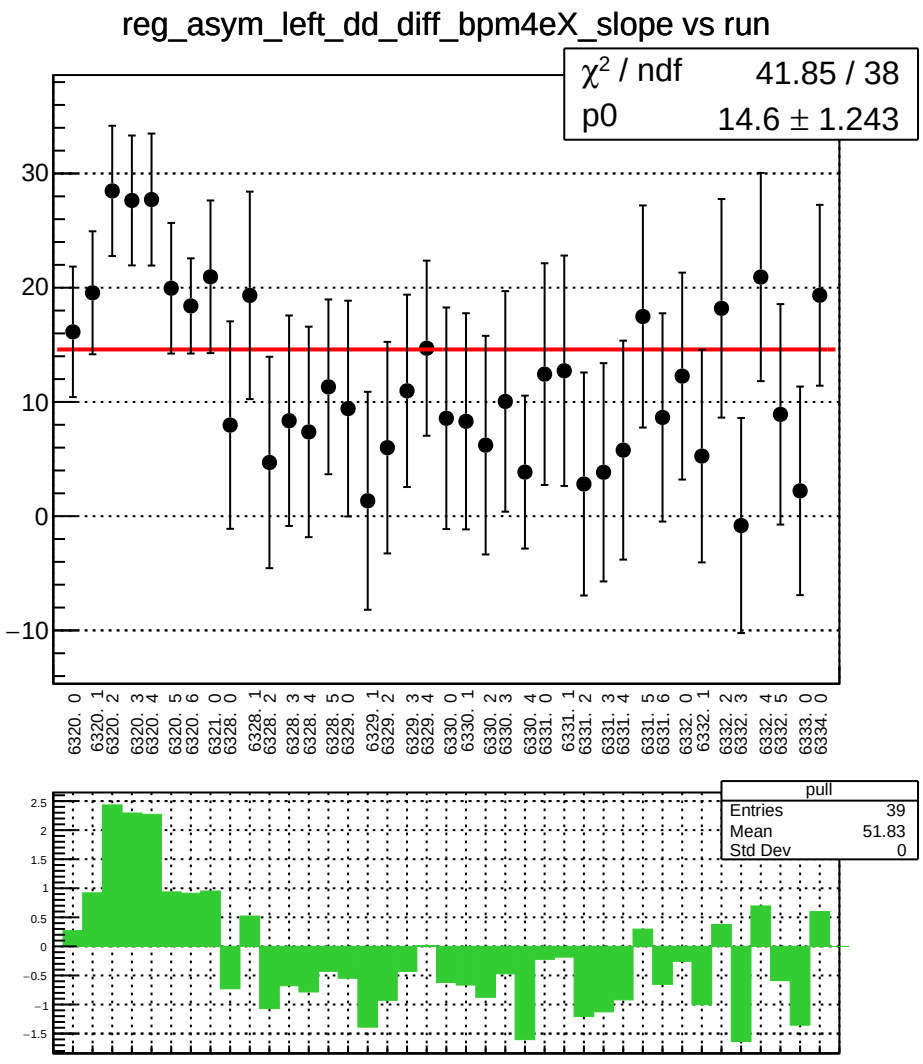

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 39.42 / 38
p0 −19.61 ± 0.05157
−18.5
−19
−19.5
−20
−20.5
−21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −64.79
Std Dev 56.97
2
1
0
−1
−2

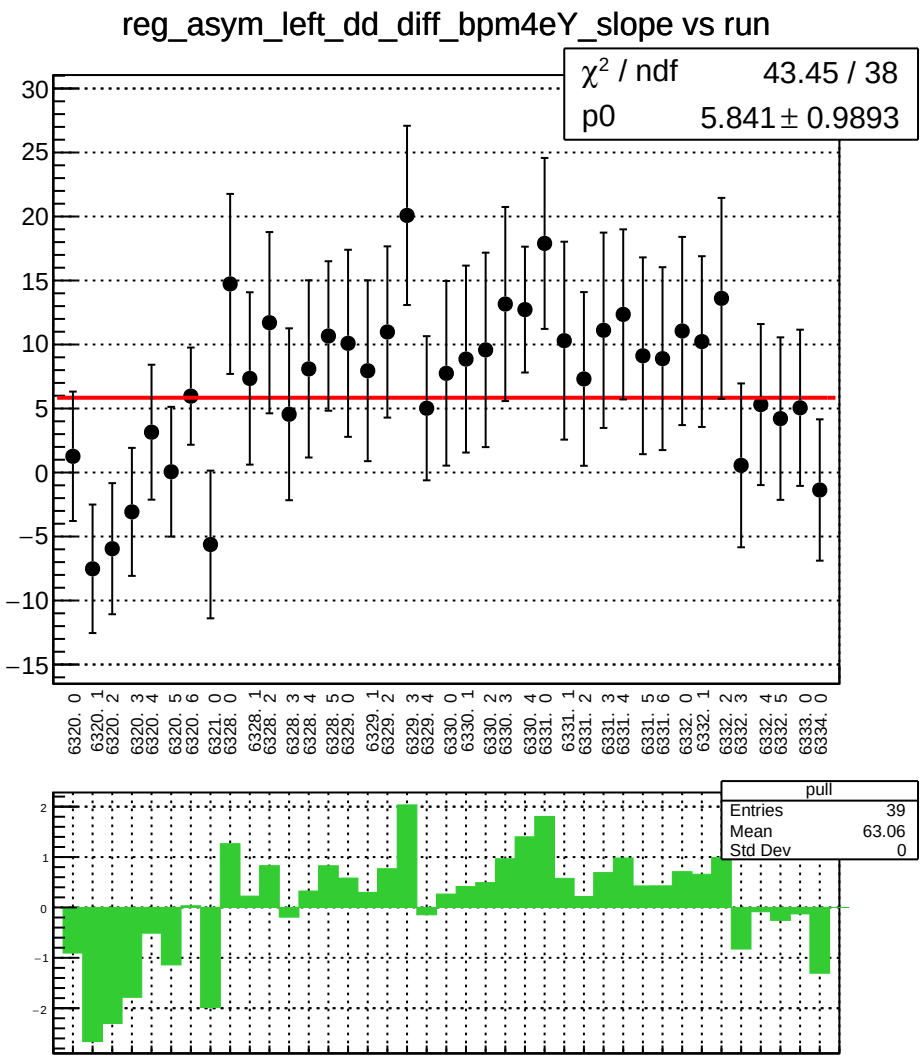

pull1D
Entries 39
Mean −0.006178
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

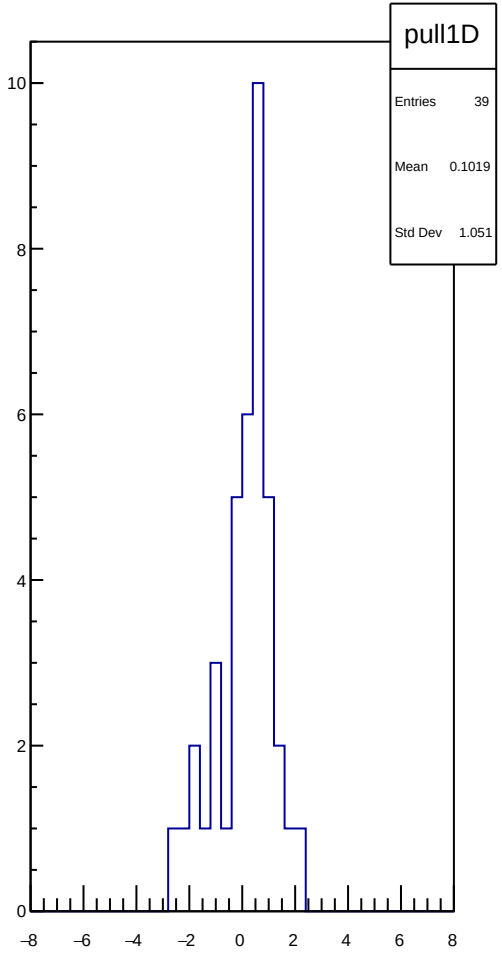

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 46.77 / 38
p0 −42.08 ± 1.192
−20
−30
−40
−50
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

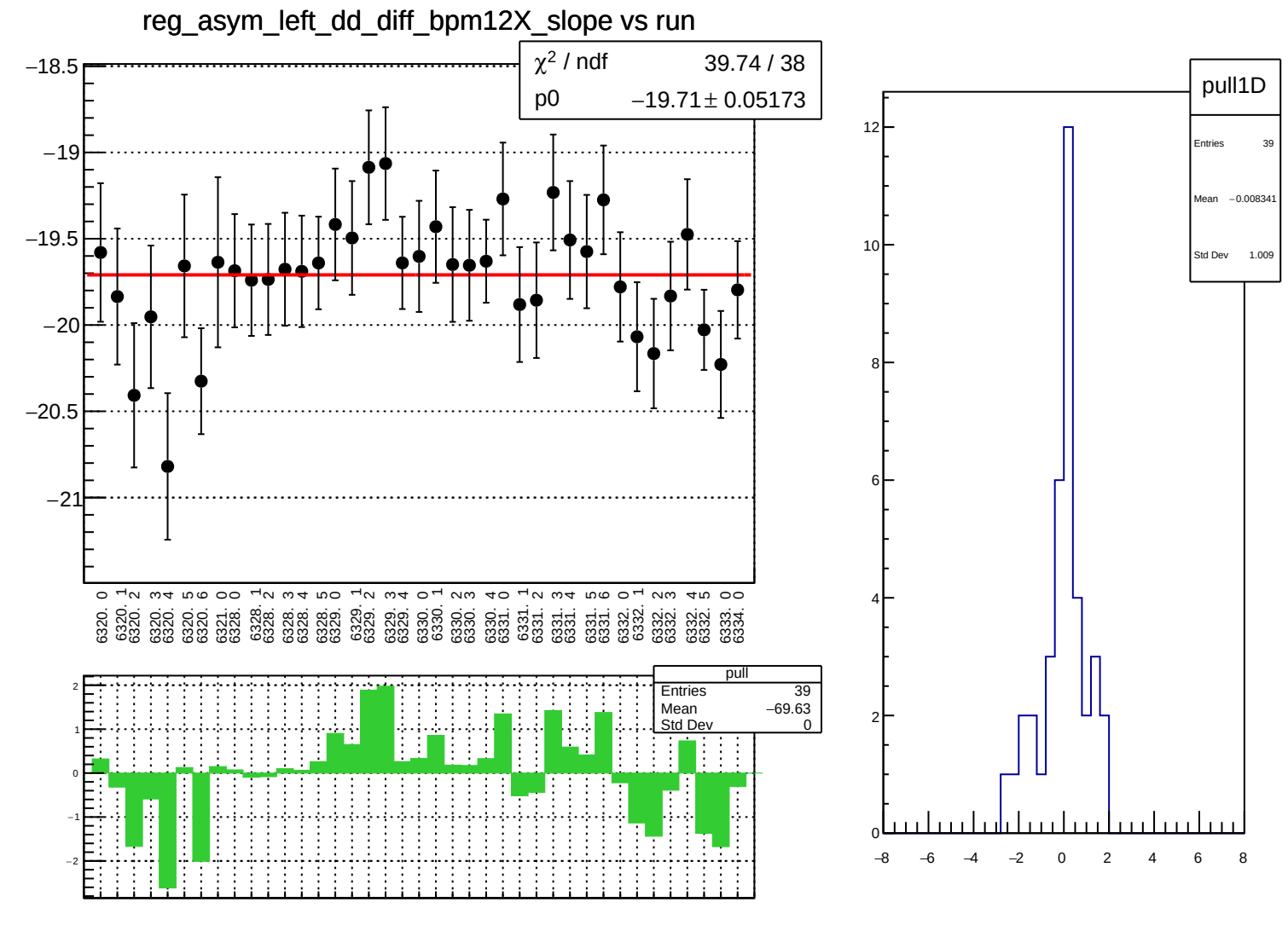

pull1D
Entries 39
Mean 0.1821
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

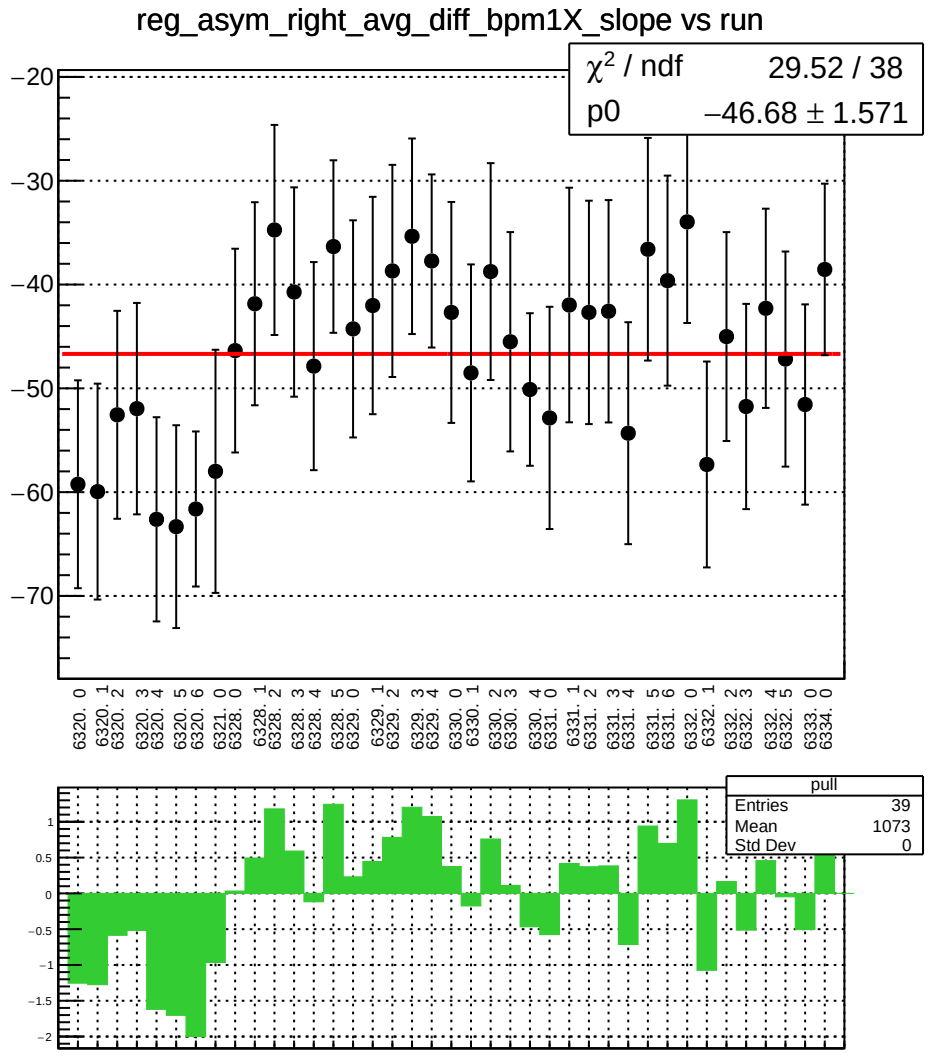

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.32 / 38
p0 2.44 ± 0.8694
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.09701
Std Dev 0.8158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

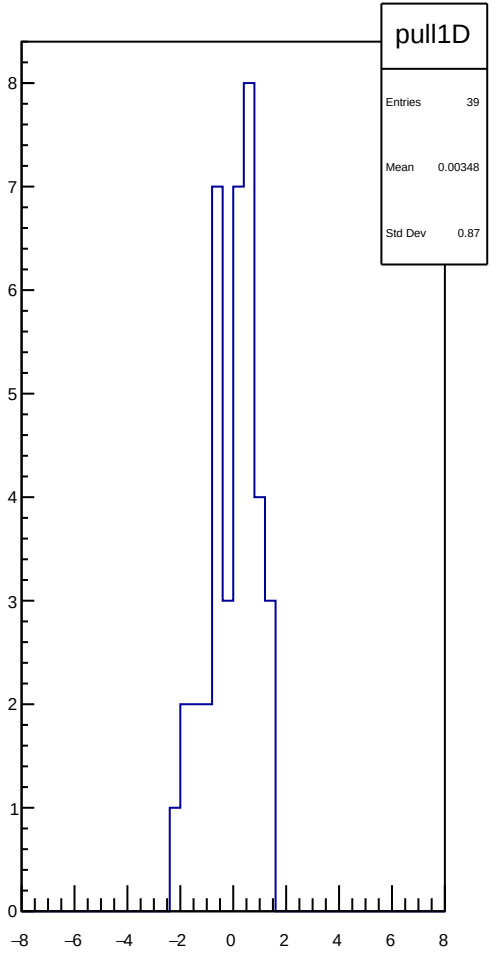

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.85 / 38
p0 14.6 ± 1.243
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.1762
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

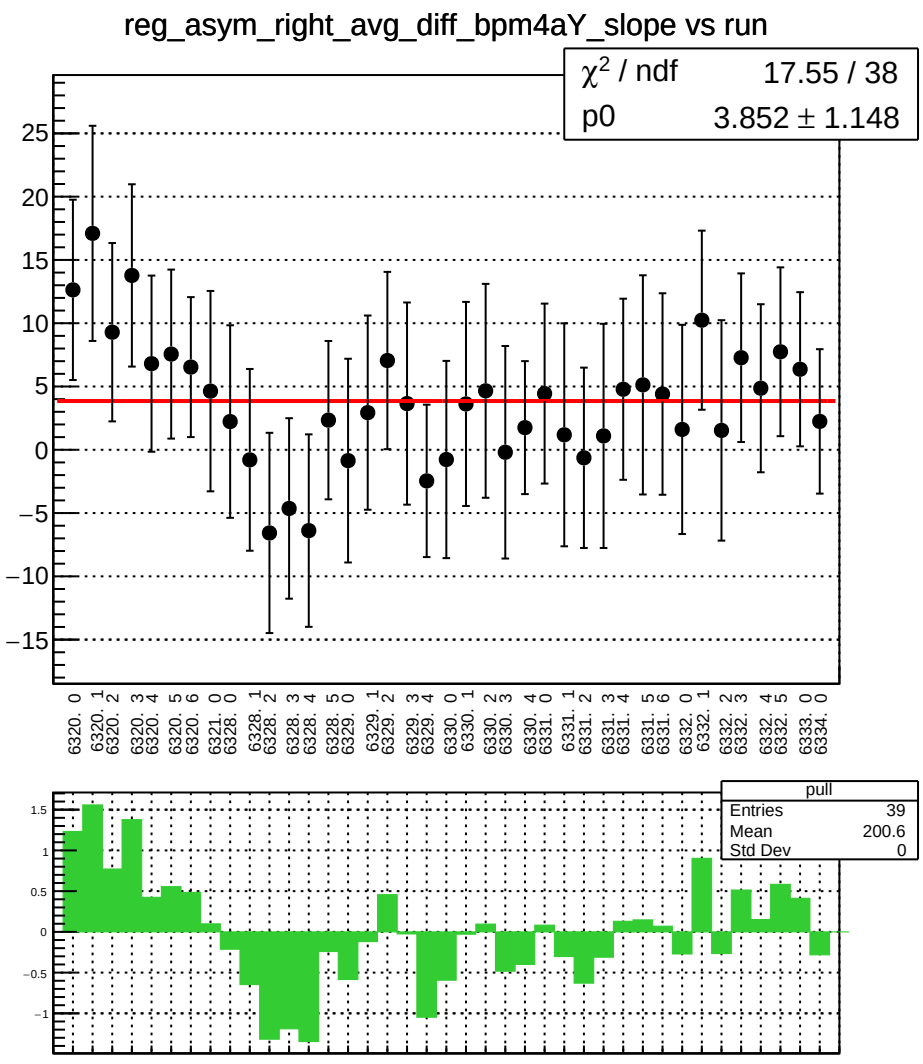

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.45 / 38
p0 5.841 ± 0.9893
pull
Entries 39
Mean 63.06
Std Dev 0

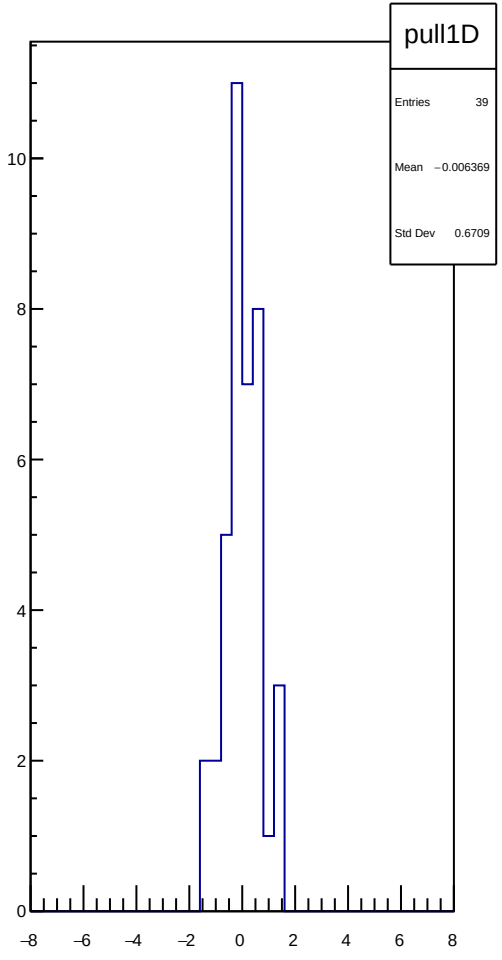

pull1D
Entries 39
Mean 0.1019
Std Dev 1.051

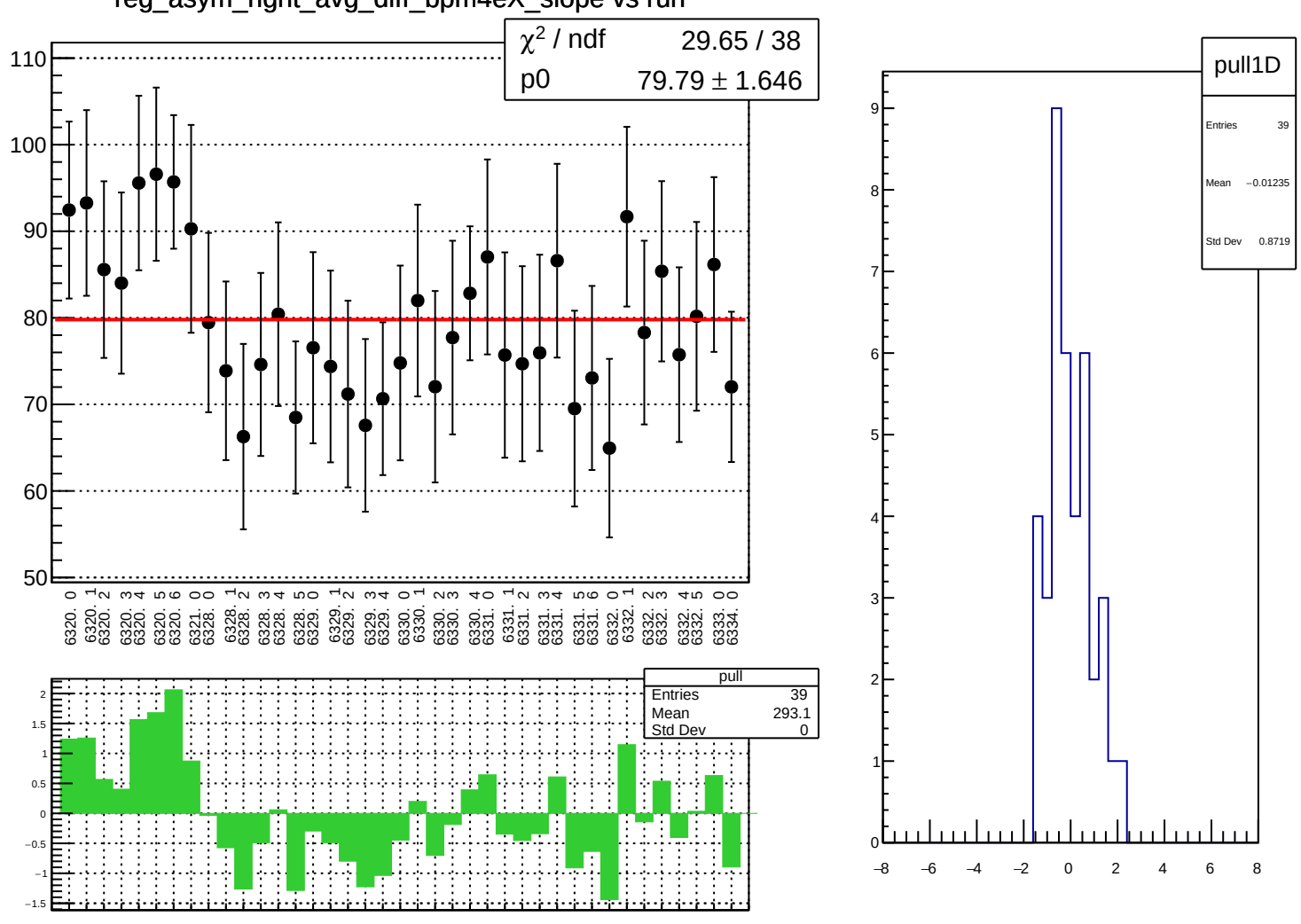

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 39.74 / 38
p0 −19.71 ± 0.05173
−18.5
−19
−19.5
−20
−20.5
−21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −69.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.008341
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

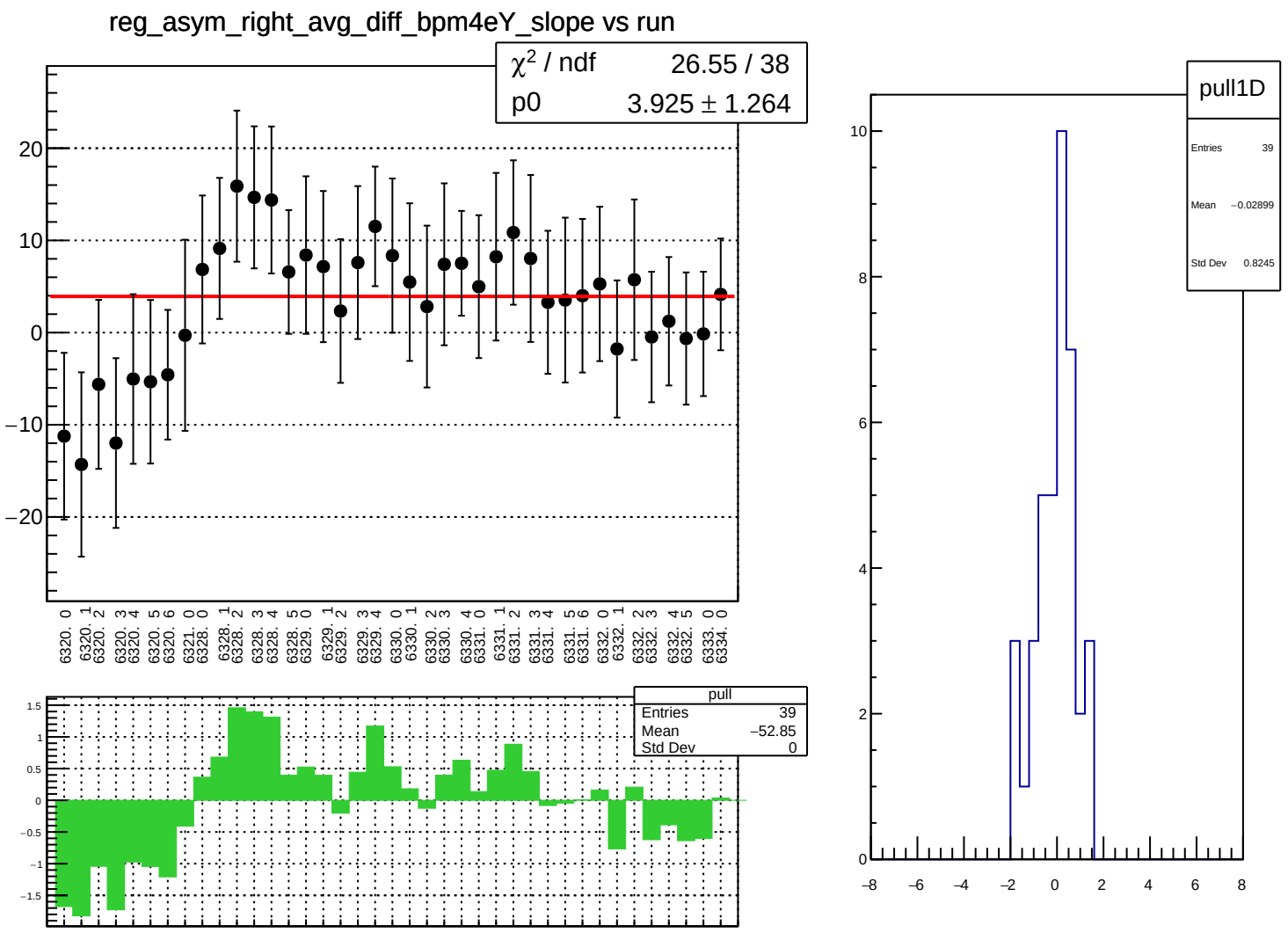

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 29.52 / 38
p0 −46.68 ± 1.571
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1073
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

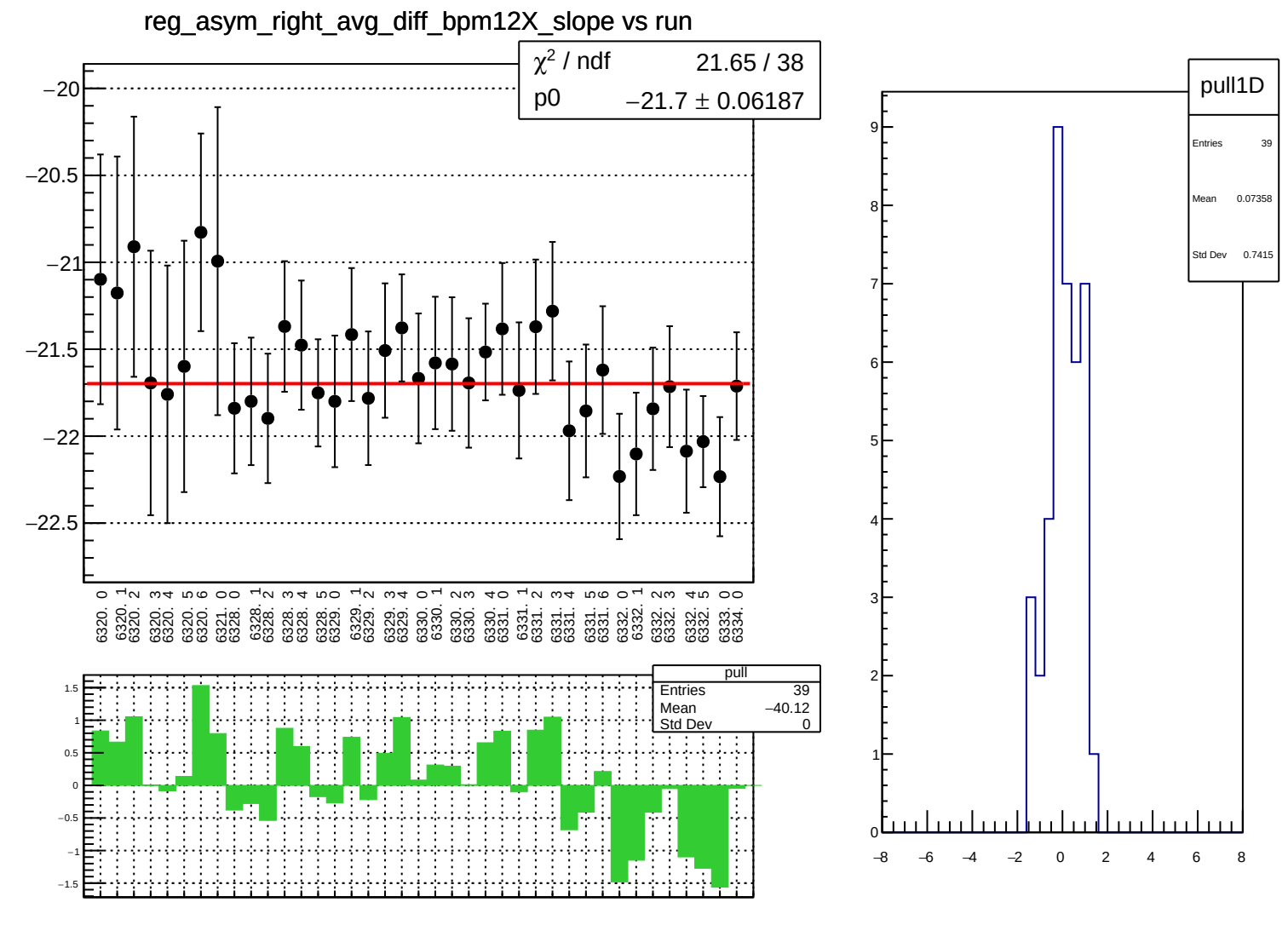

pull1D
Entries 39
Mean 0.00348
Std Dev 0.87
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

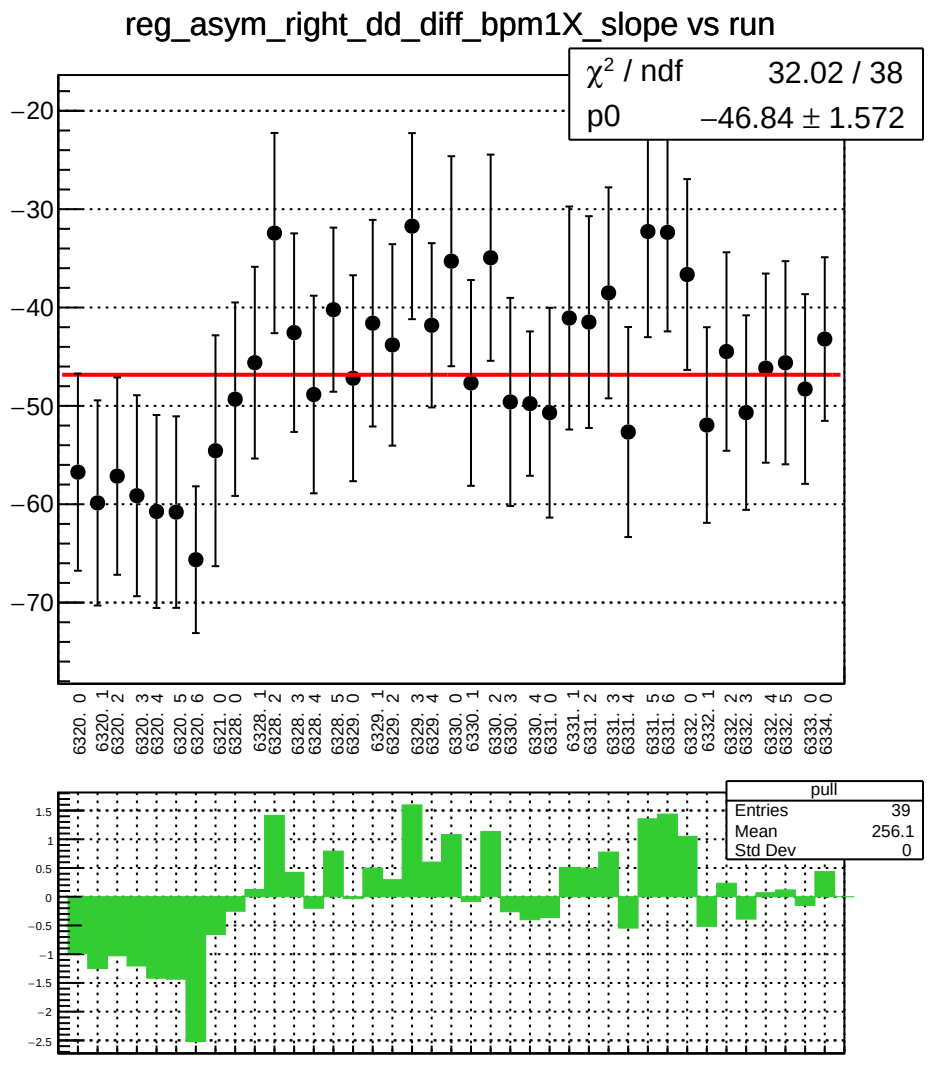

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.55 / 38
p0 3.852 ± 1.148
pull
Entries 39
Mean 200.6
Std Dev 0

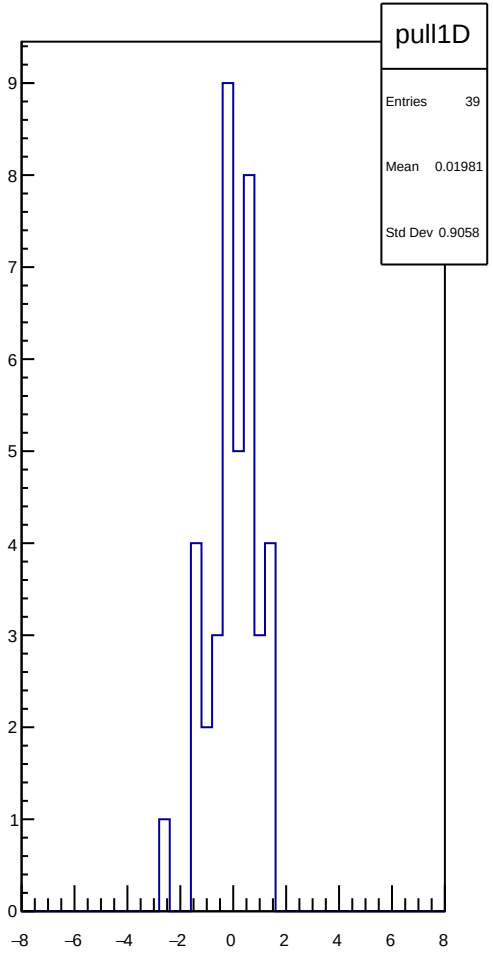

pull1D
Entries 39
Mean −0.006369
Std Dev 0.6709

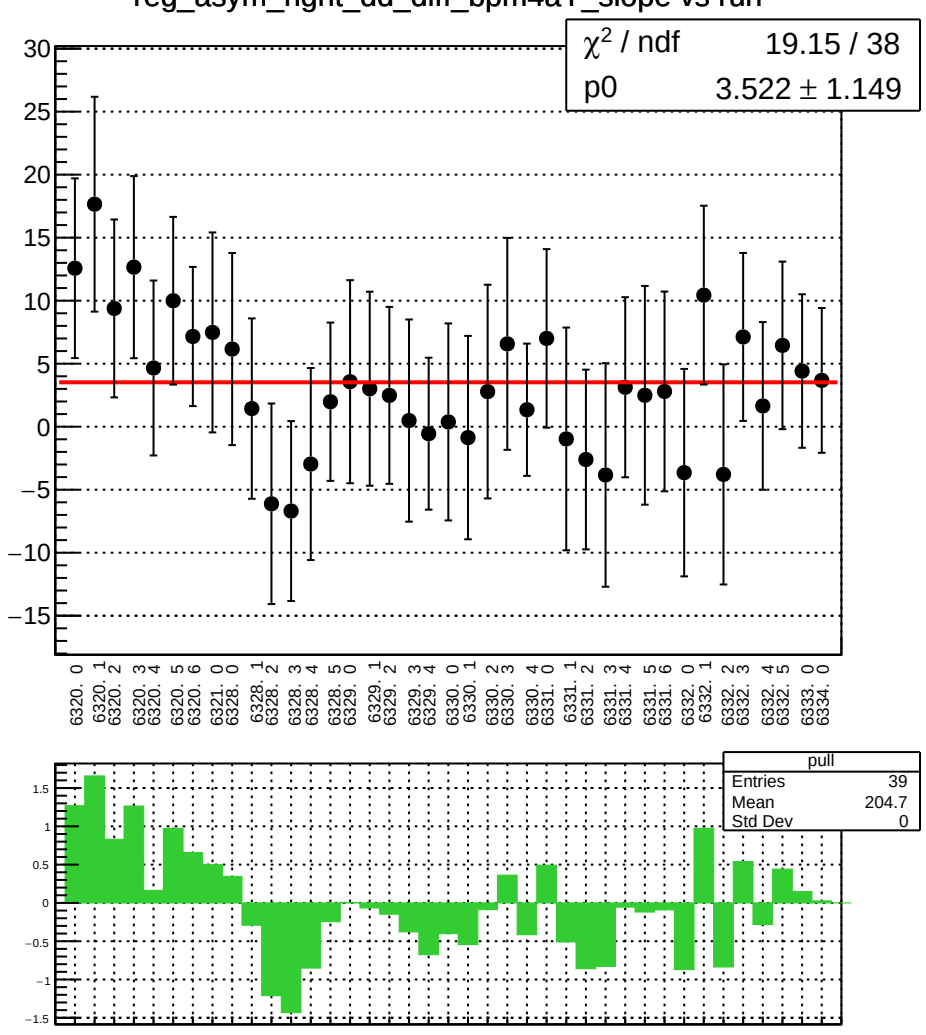

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.65 / 38
p0 79.79 ± 1.646
pull
Entries 39
Mean 293.1
Std Dev 0
pull1D
Entries 39
Mean −0.01235
Std Dev 0.8719

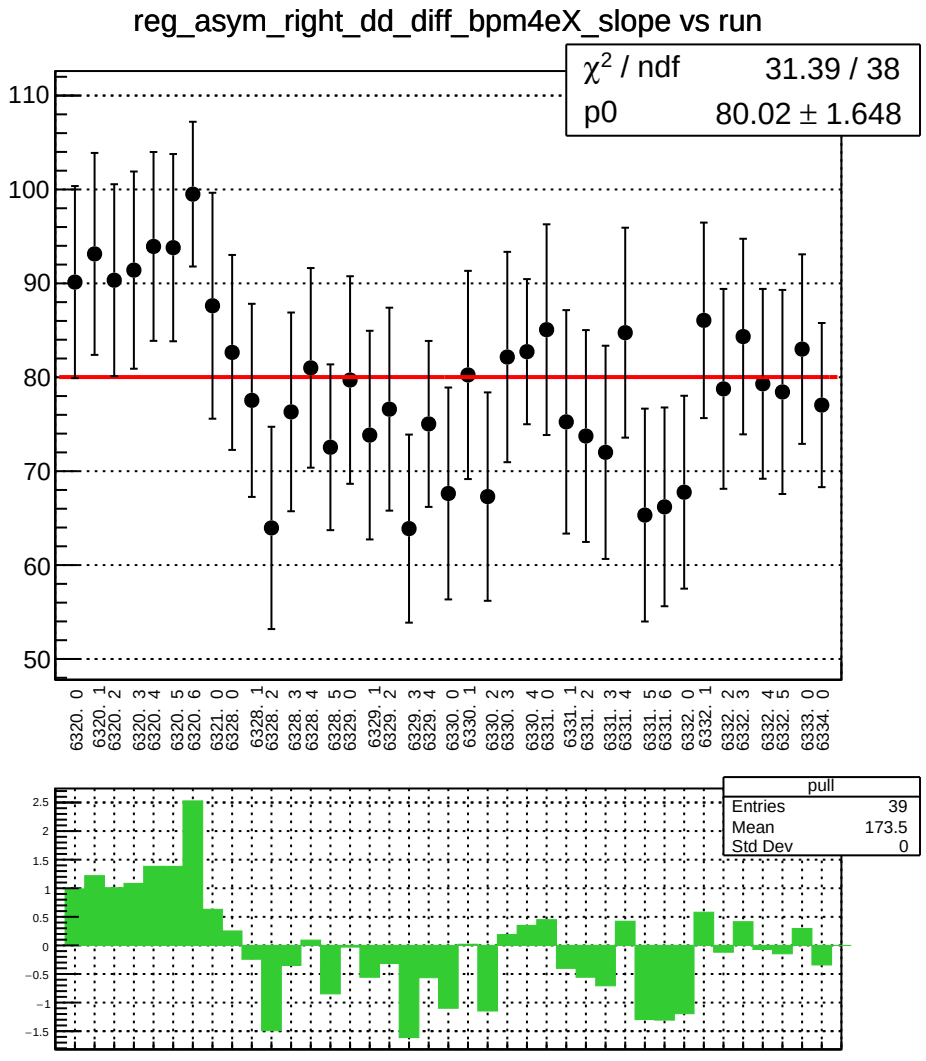

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.55 / 38
p0 3.925 ± 1.264
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −52.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02899
Std Dev 0.8245
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

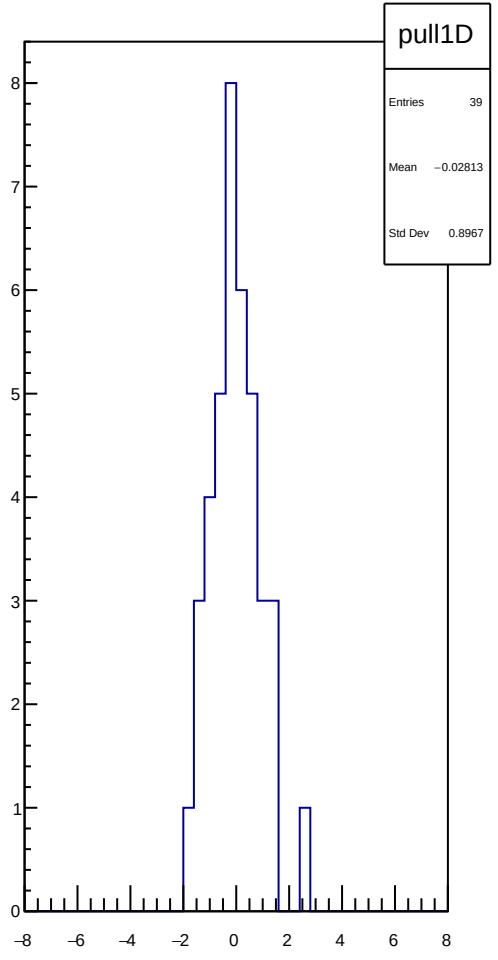

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 21.65 / 38
p0 −21.7 ± 0.06187
−20
−20.5
−21
−21.5
−22
−22.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.07358
Std Dev 0.7415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

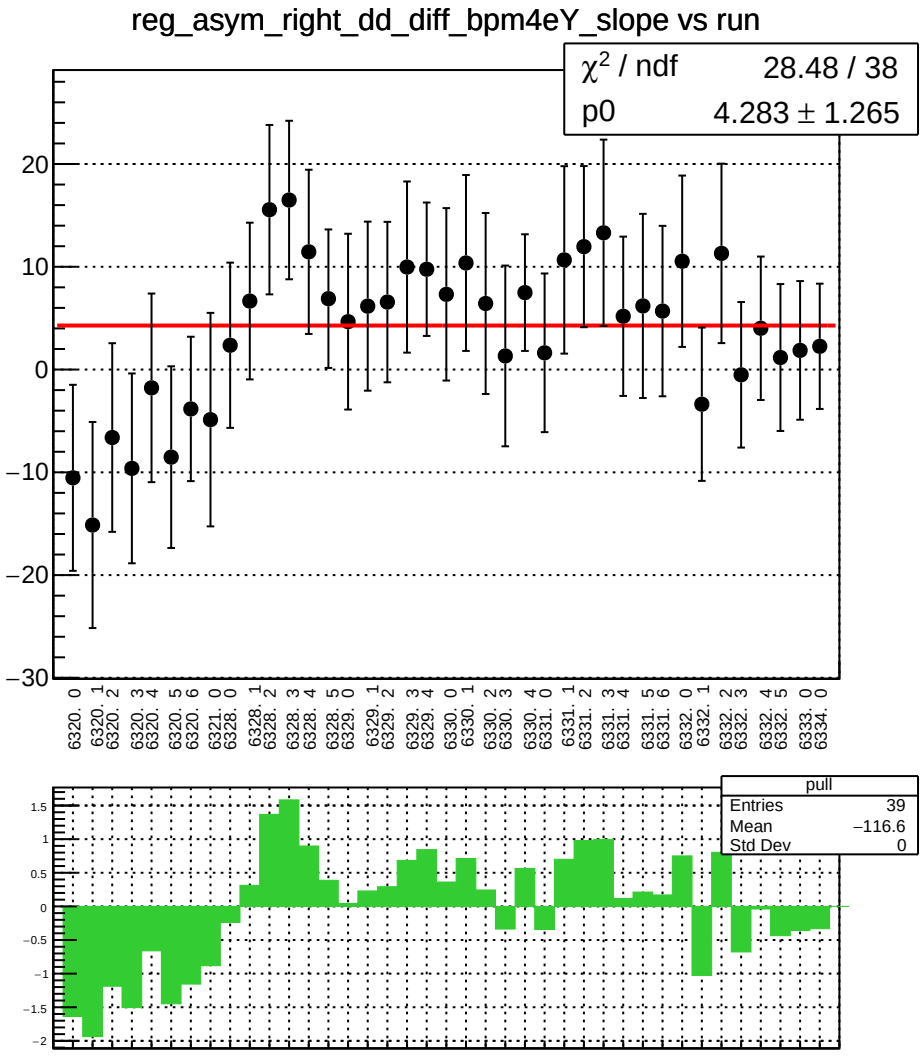

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 32.02 / 38
p0 −46.84 ± 1.572
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 256.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

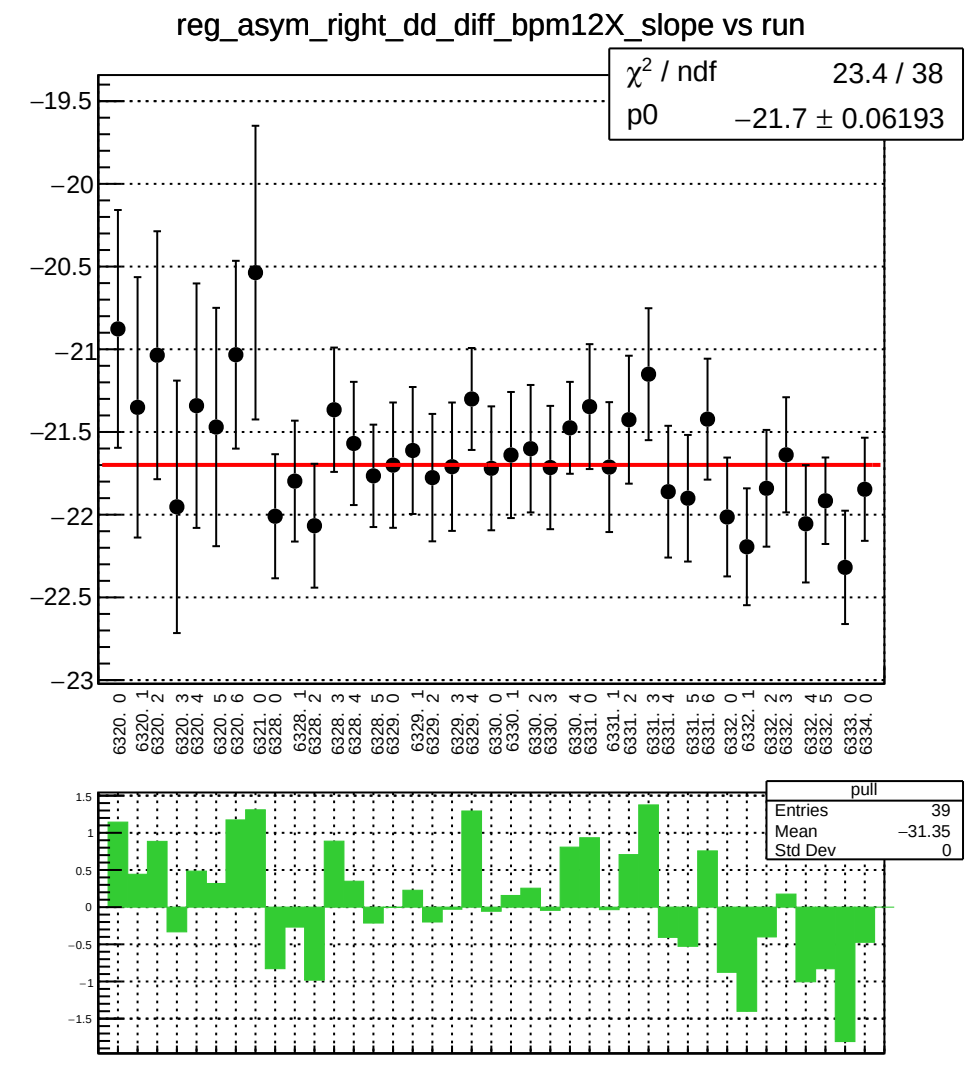

pull1D
Entries 39
Mean 0.01981
Std Dev 0.9058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

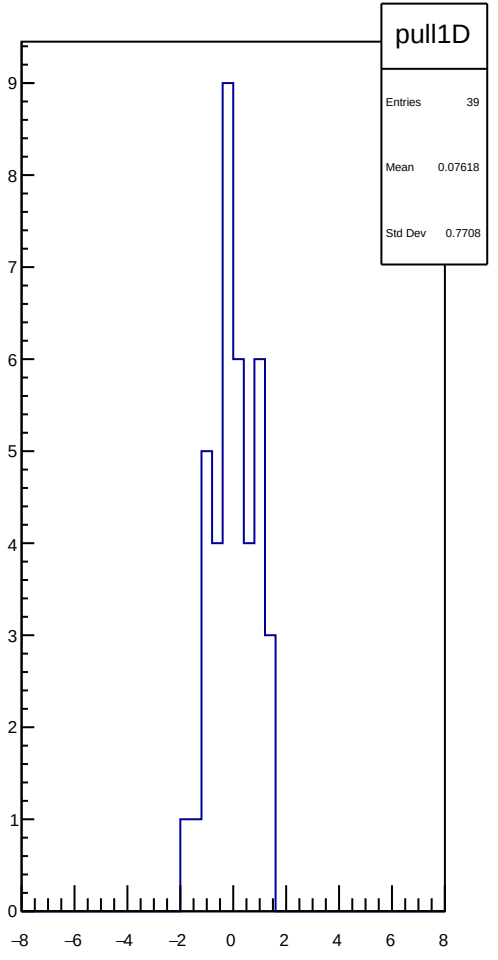

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.15 / 38
p0 3.522 ± 1.149
pull
Entries 39
Mean 204.7
Std Dev 0
pull1D
Entries 39
Mean −0.0139
Std Dev 0.7007

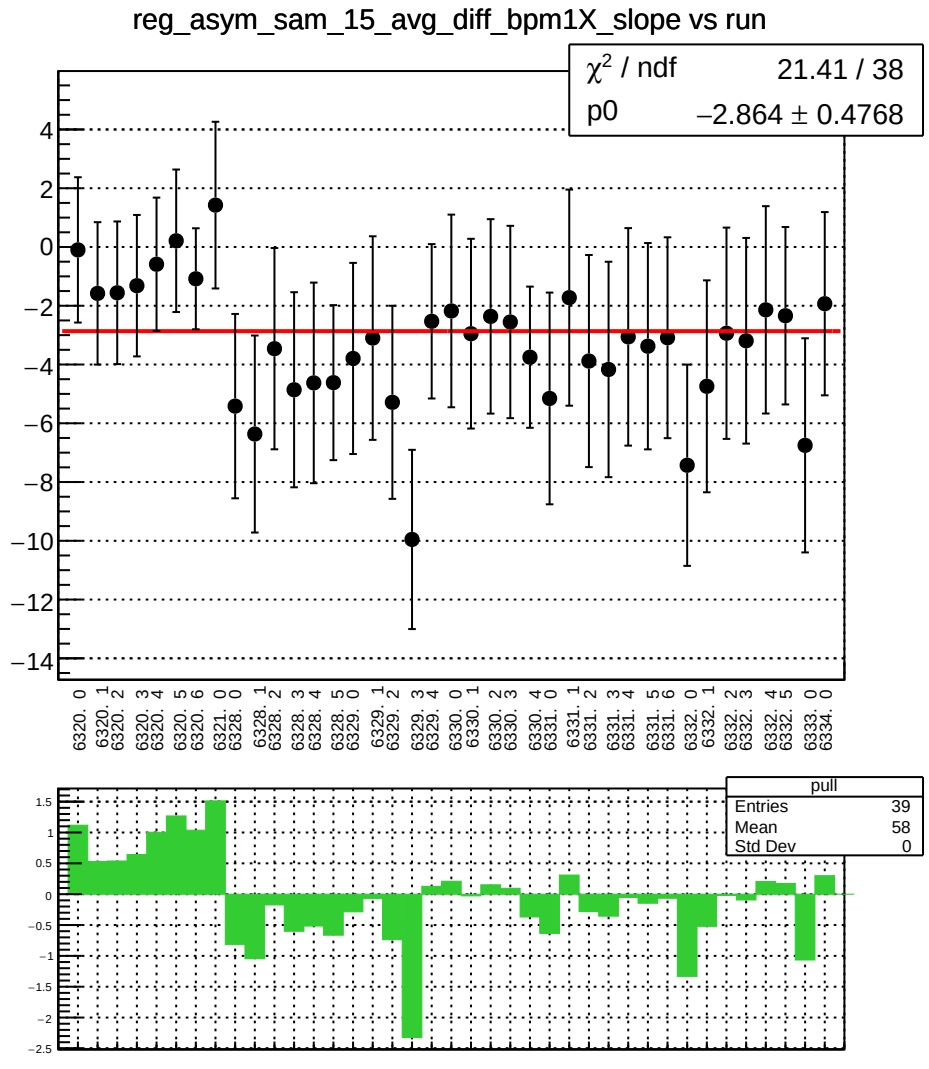

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.39 / 38
p0 80.02 ± 1.648
110
100
90
80
70
60
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 173.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

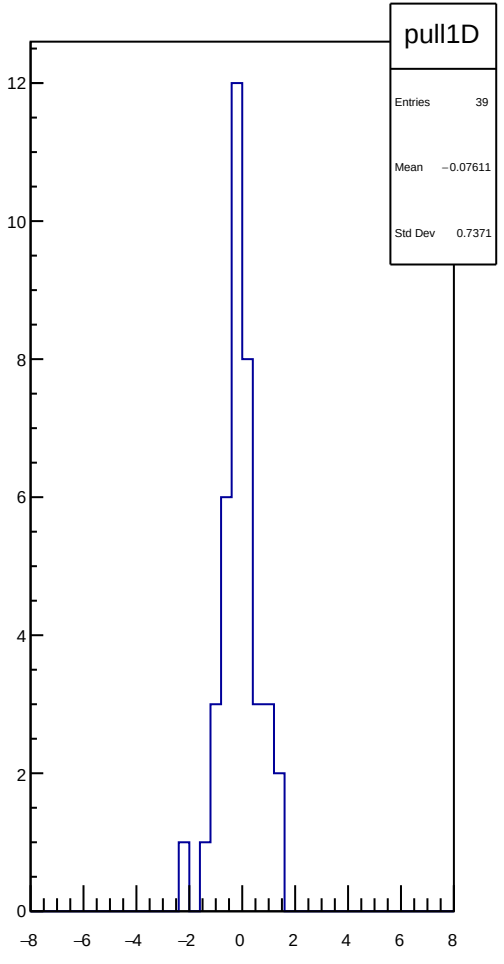

pull1D
Entries 39
Mean −0.02813
Std Dev 0.8967
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

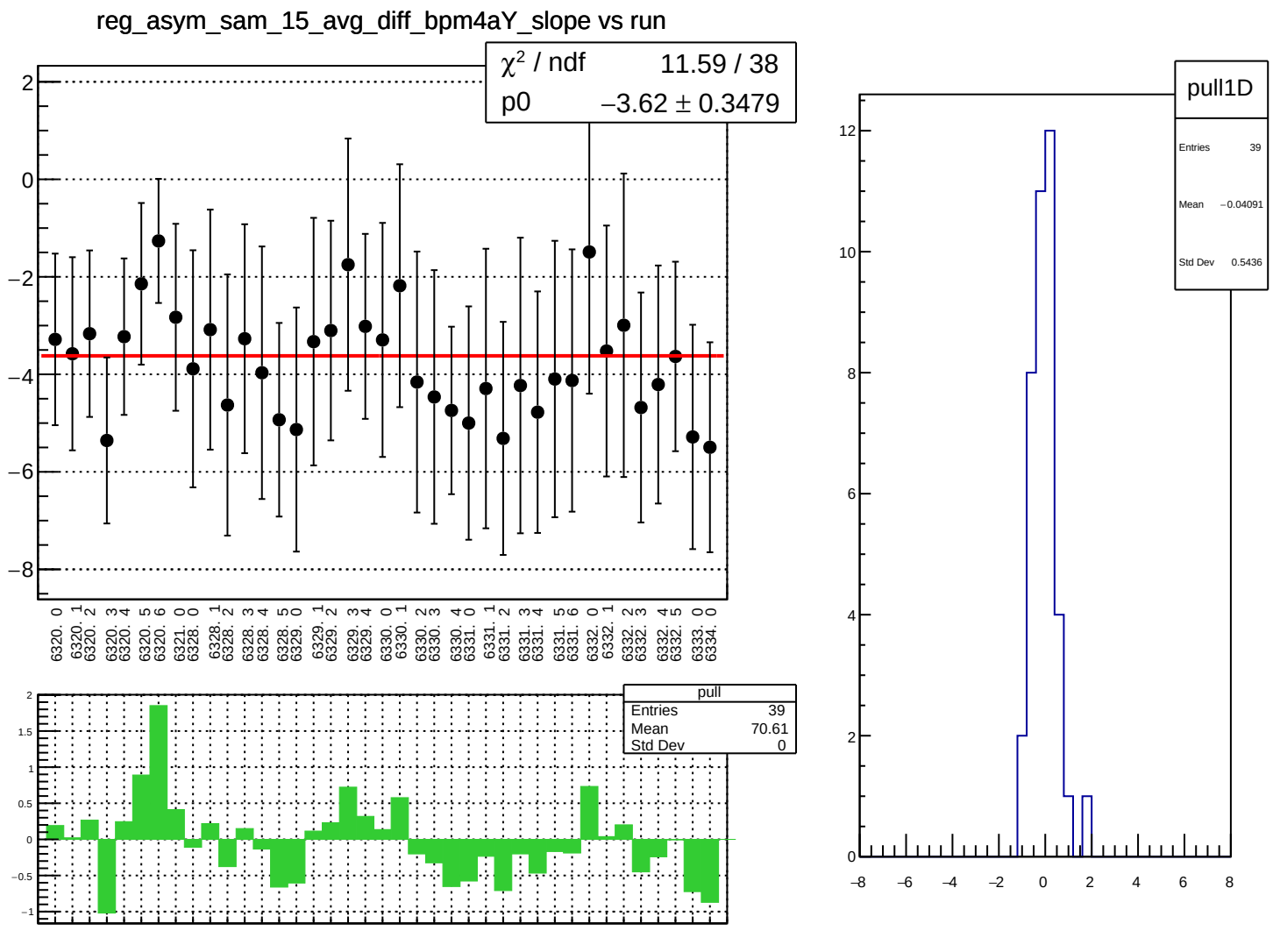

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.48 / 38
p0 4.283 ± 1.265
pull
Entries 39
Mean −116.6
Std Dev 0
pull1D
Entries 39
Mean −0.0242
Std Dev 0.8543

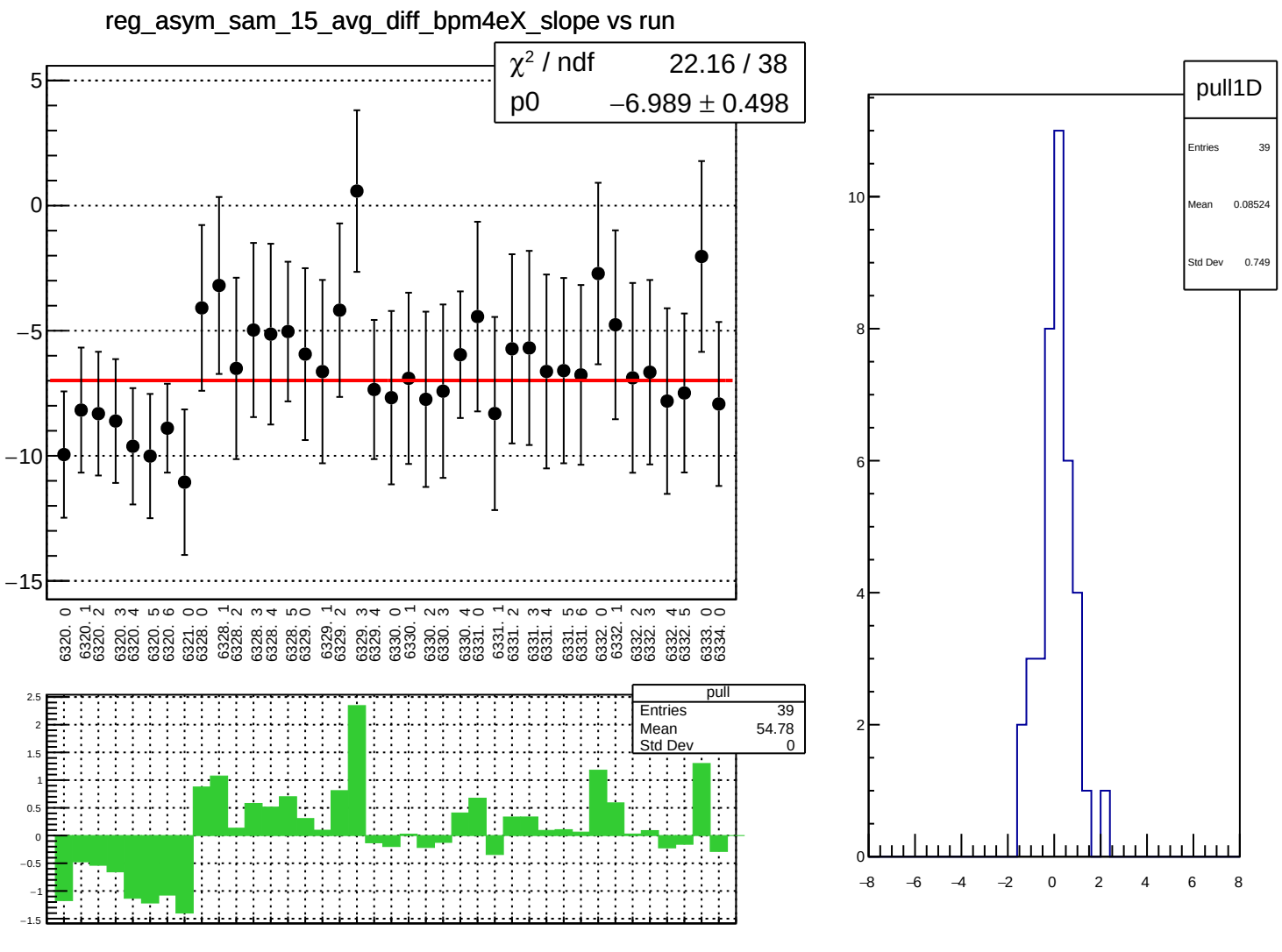

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 23.4 / 38
p0 −21.7 ± 0.06193
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
−23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

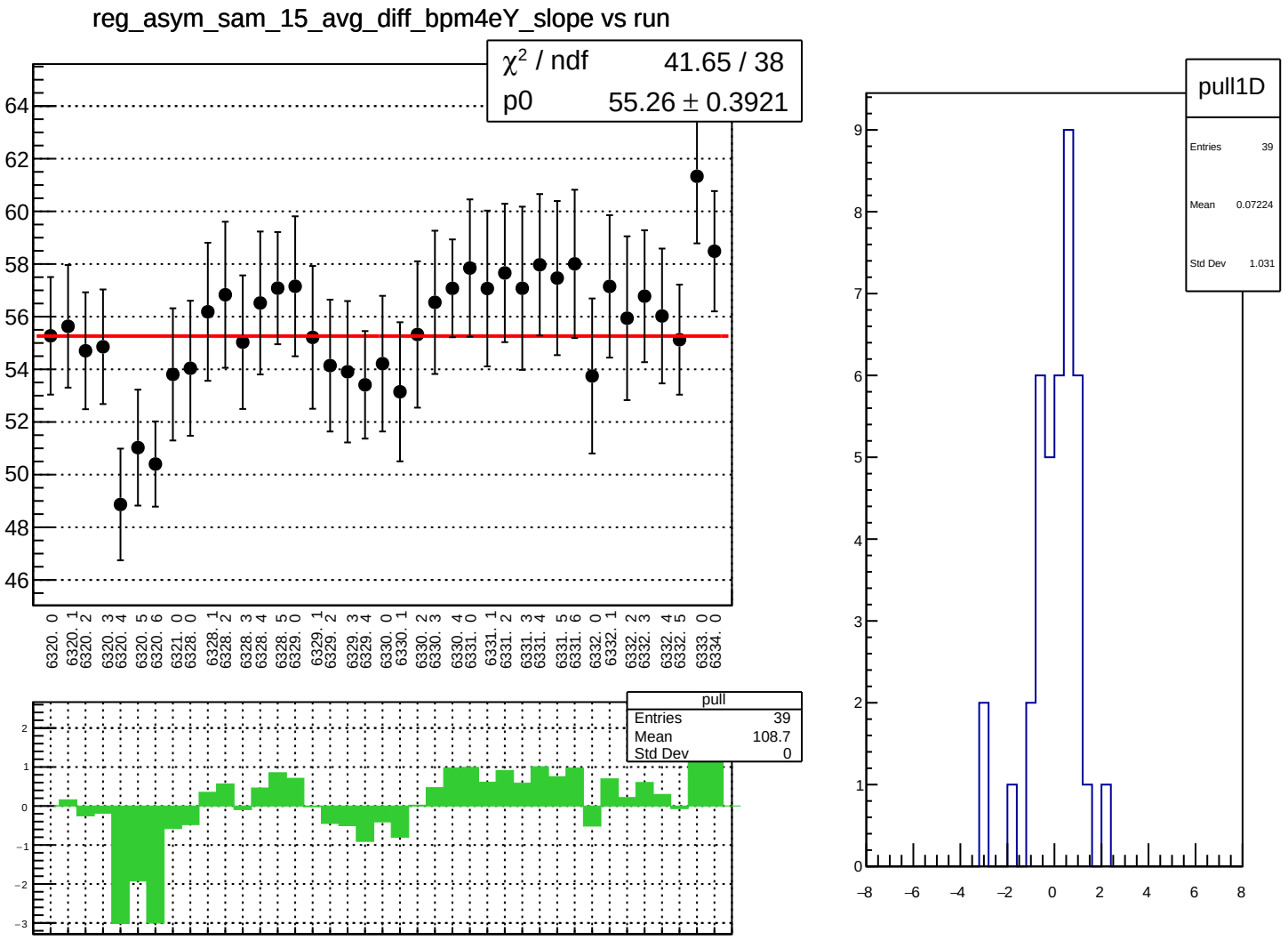

pull1D
Entries 39
Mean 0.07618
Std Dev 0.7708
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

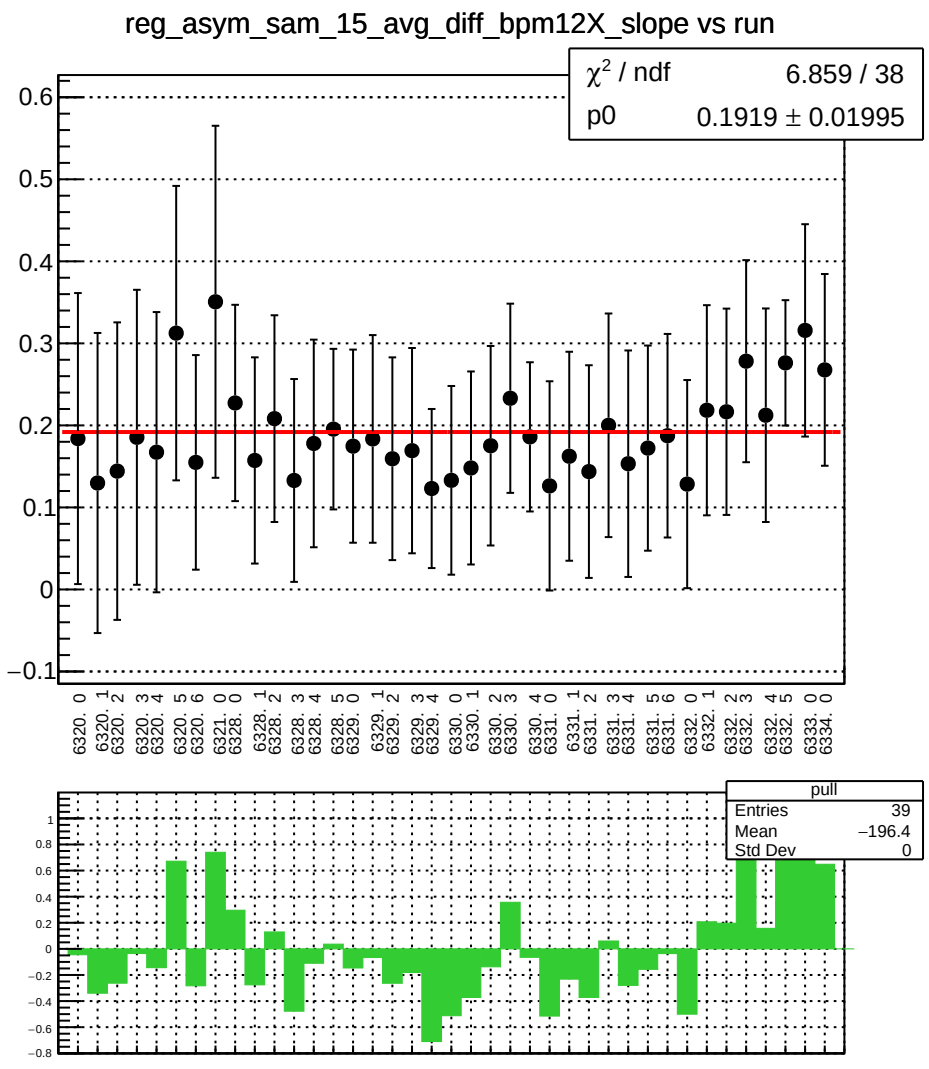

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 21.41 / 38
p0 −2.864 ± 0.4768
pull
Entries 39
Mean 58
Std Dev 0

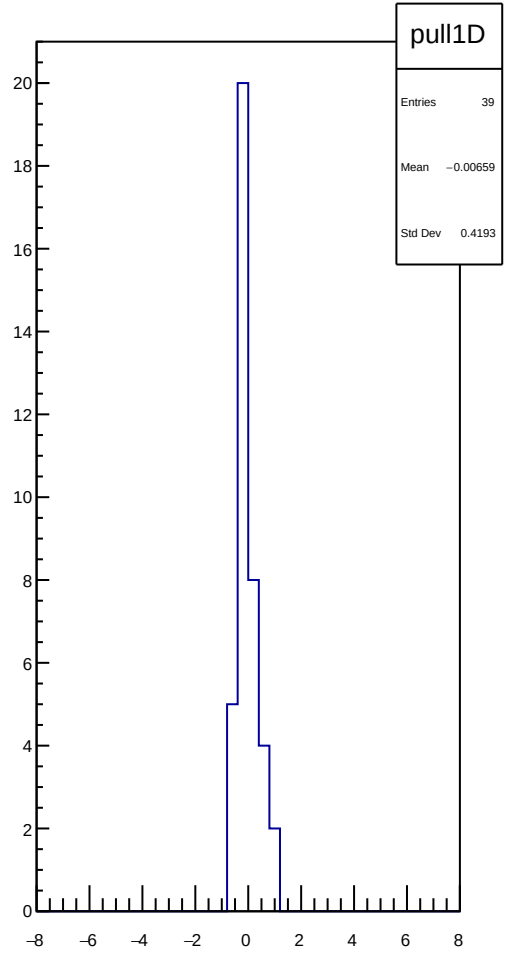

pull1D
Entries 39
Mean −0.07611
Std Dev 0.7371

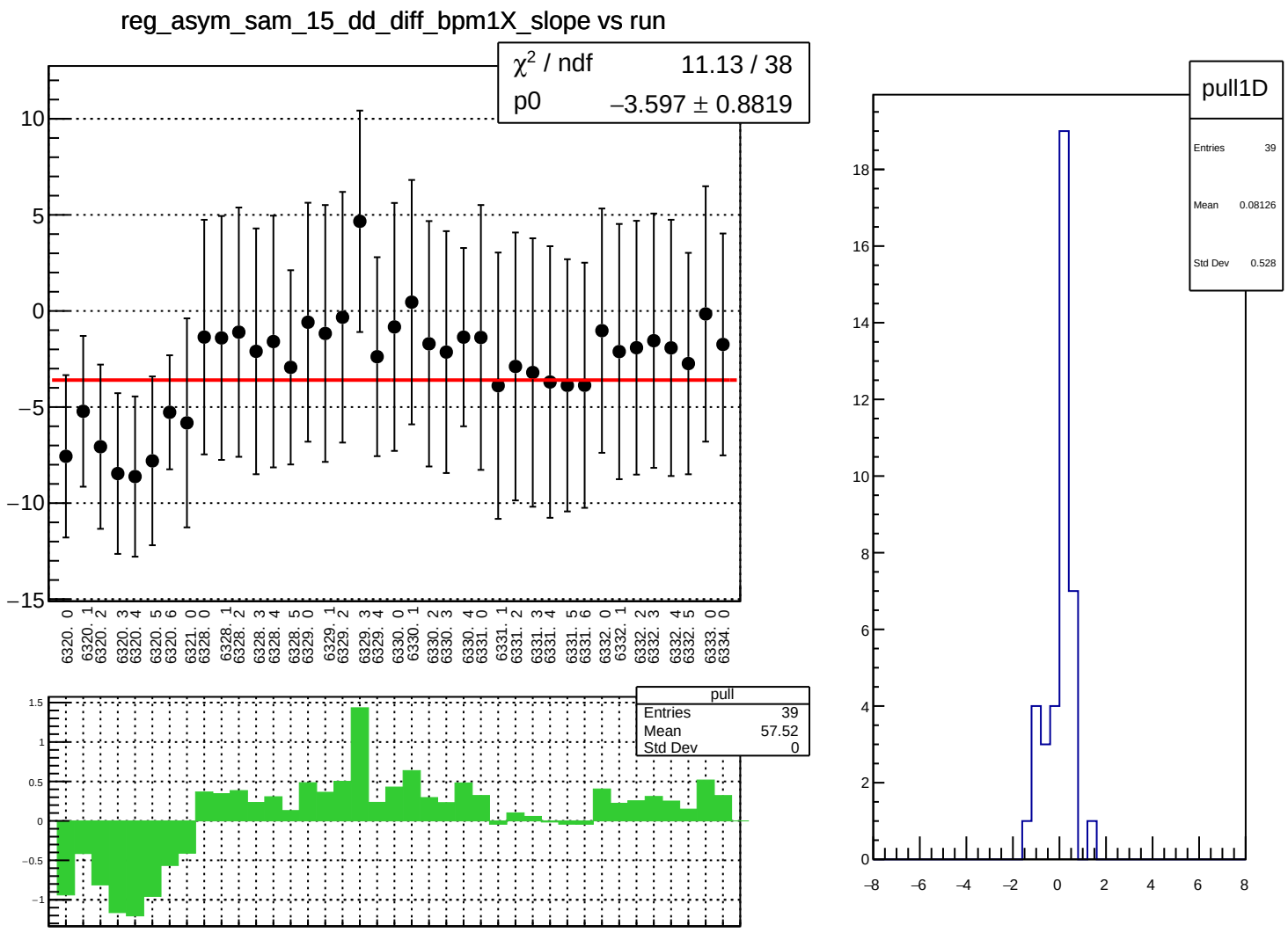

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.59 / 38
p0 −3.62 ± 0.3479
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 70.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.04091
Std Dev 0.5436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

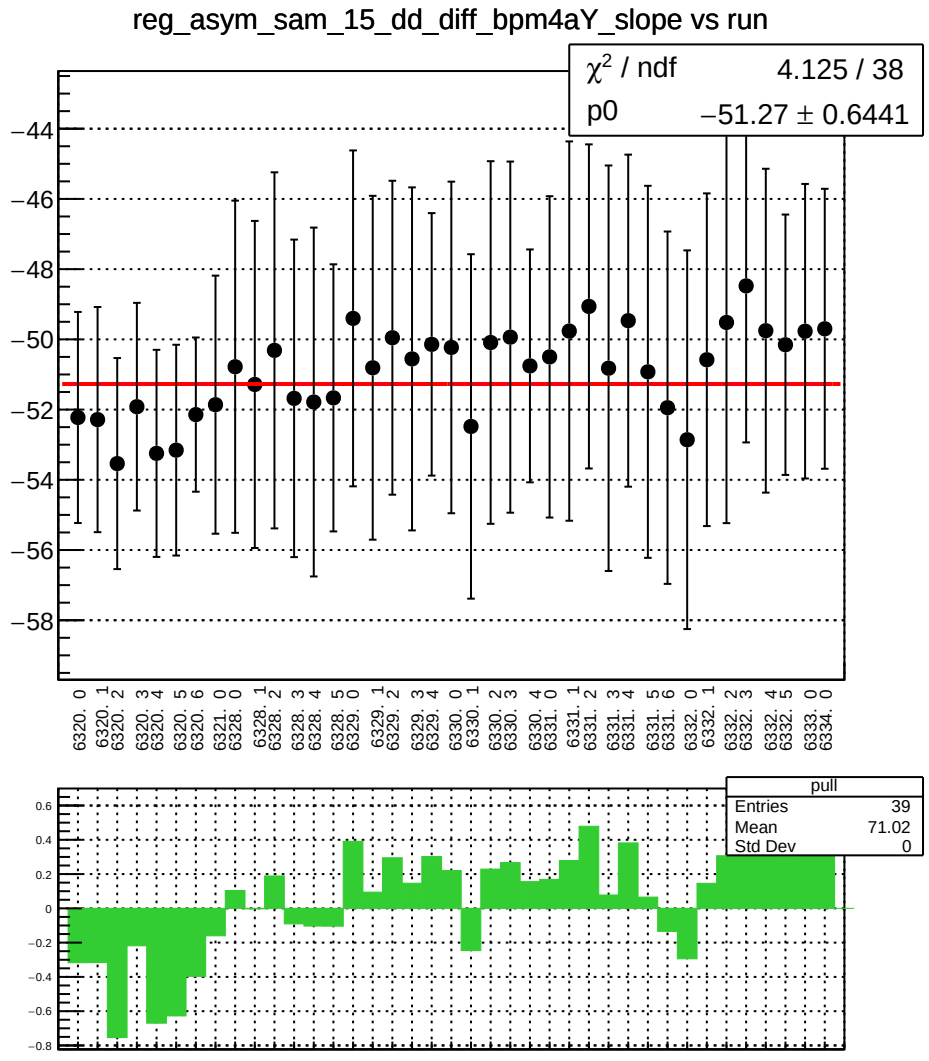

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.16 / 38
p0 −6.989 ± 0.498
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.08524
Std Dev 0.749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

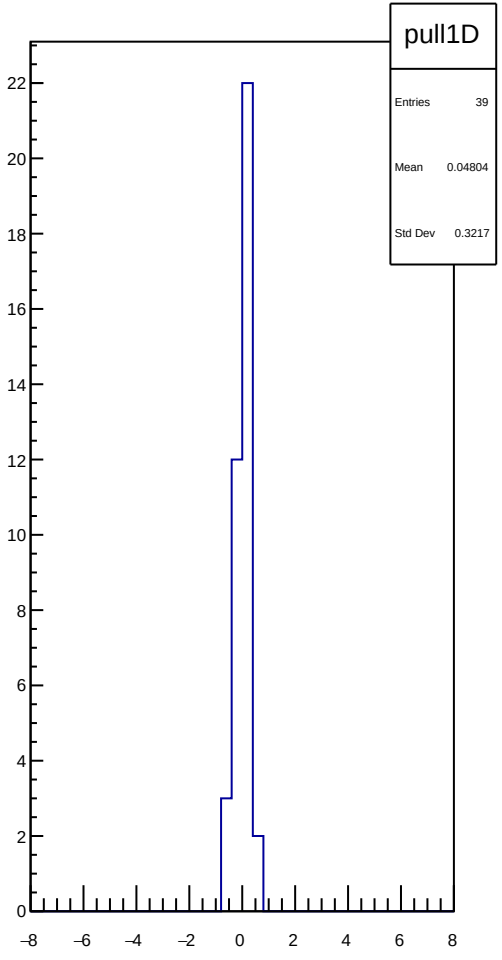

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.65 / 38
p0 55.26 ± 0.3921
64
62
60
58
56
54
52
50
48
46
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 108.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.07224
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

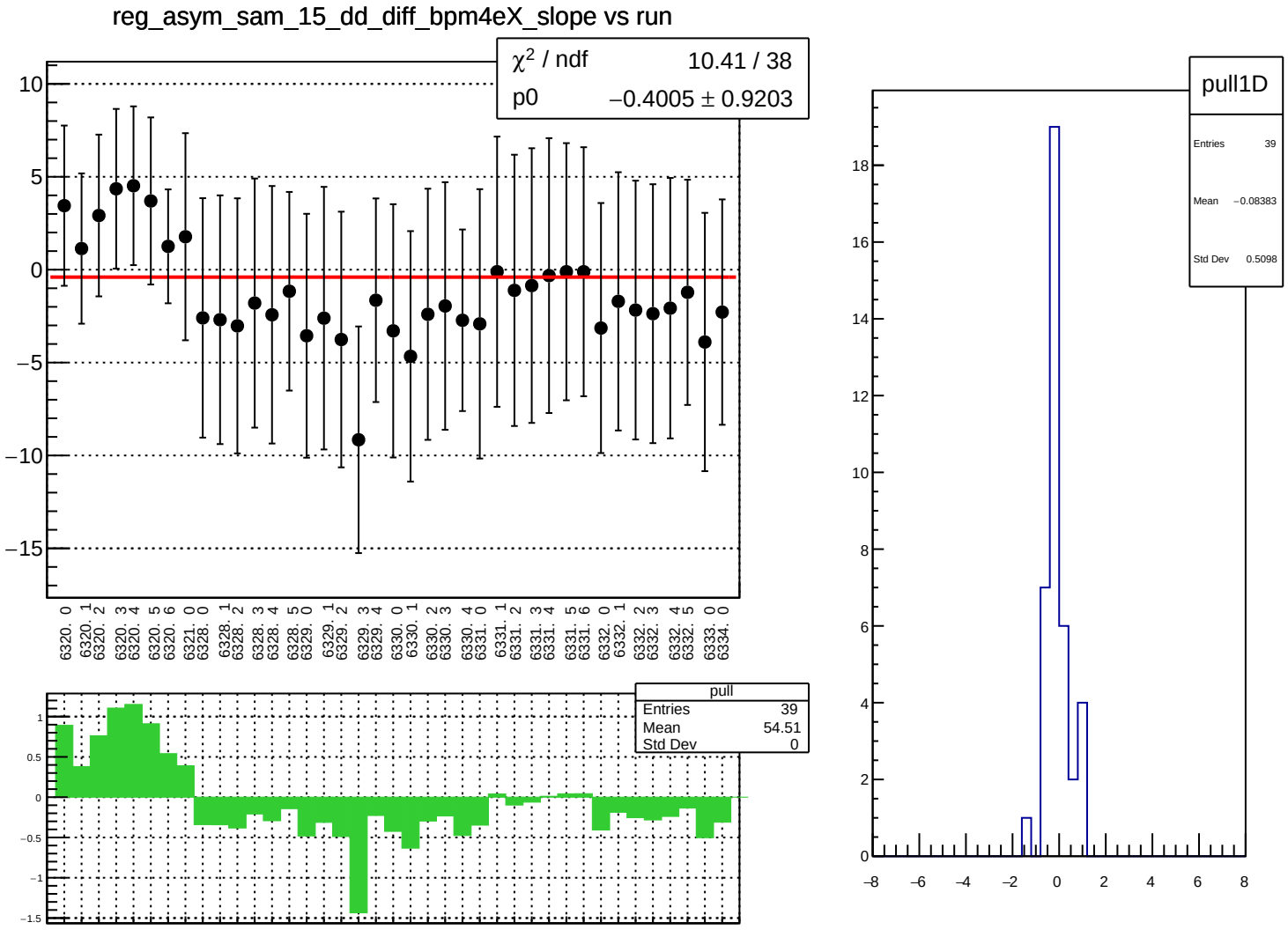

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 6.859 / 38
p0 0.1919 ± 0.01995
pull
Entries 39
Mean −196.4
Std Dev 0

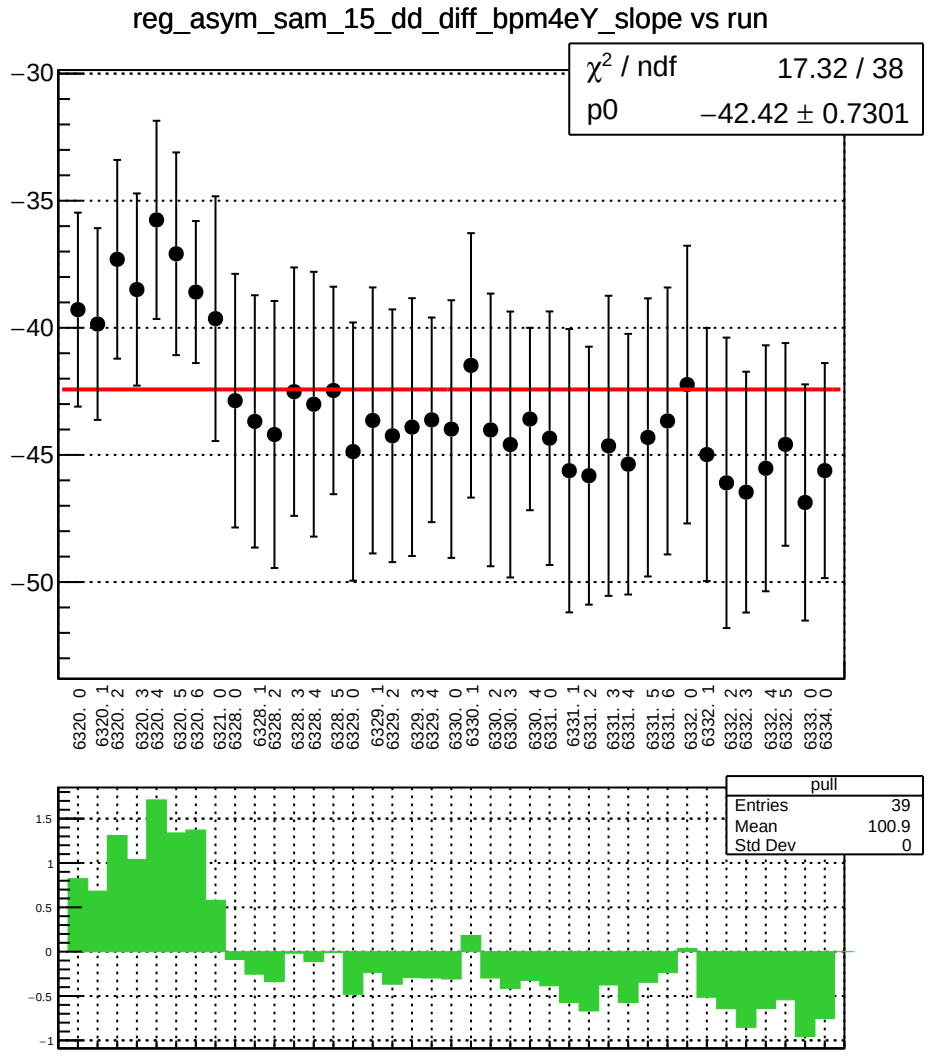

pull1D
Entries 39
Mean −0.00659
Std Dev 0.4193

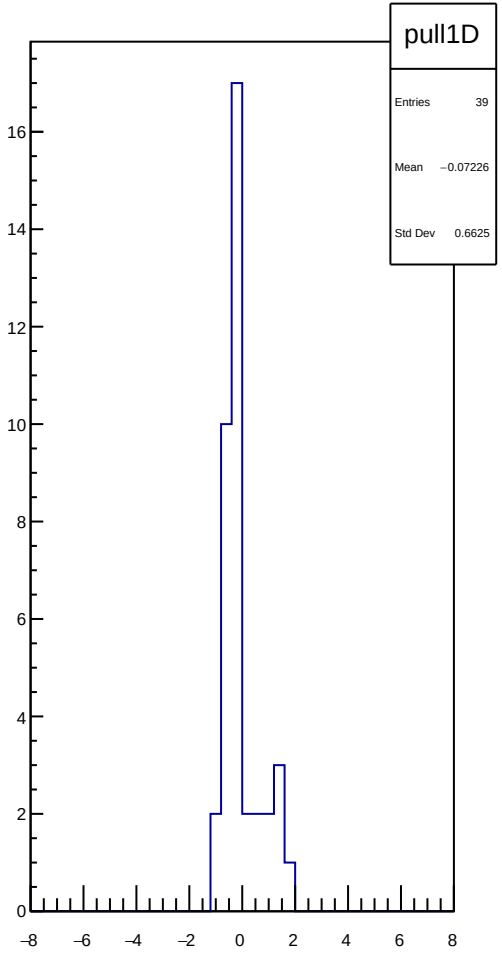

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 11.13 / 38
p0 −3.597 ± 0.8819
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.08126
Std Dev 0.528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

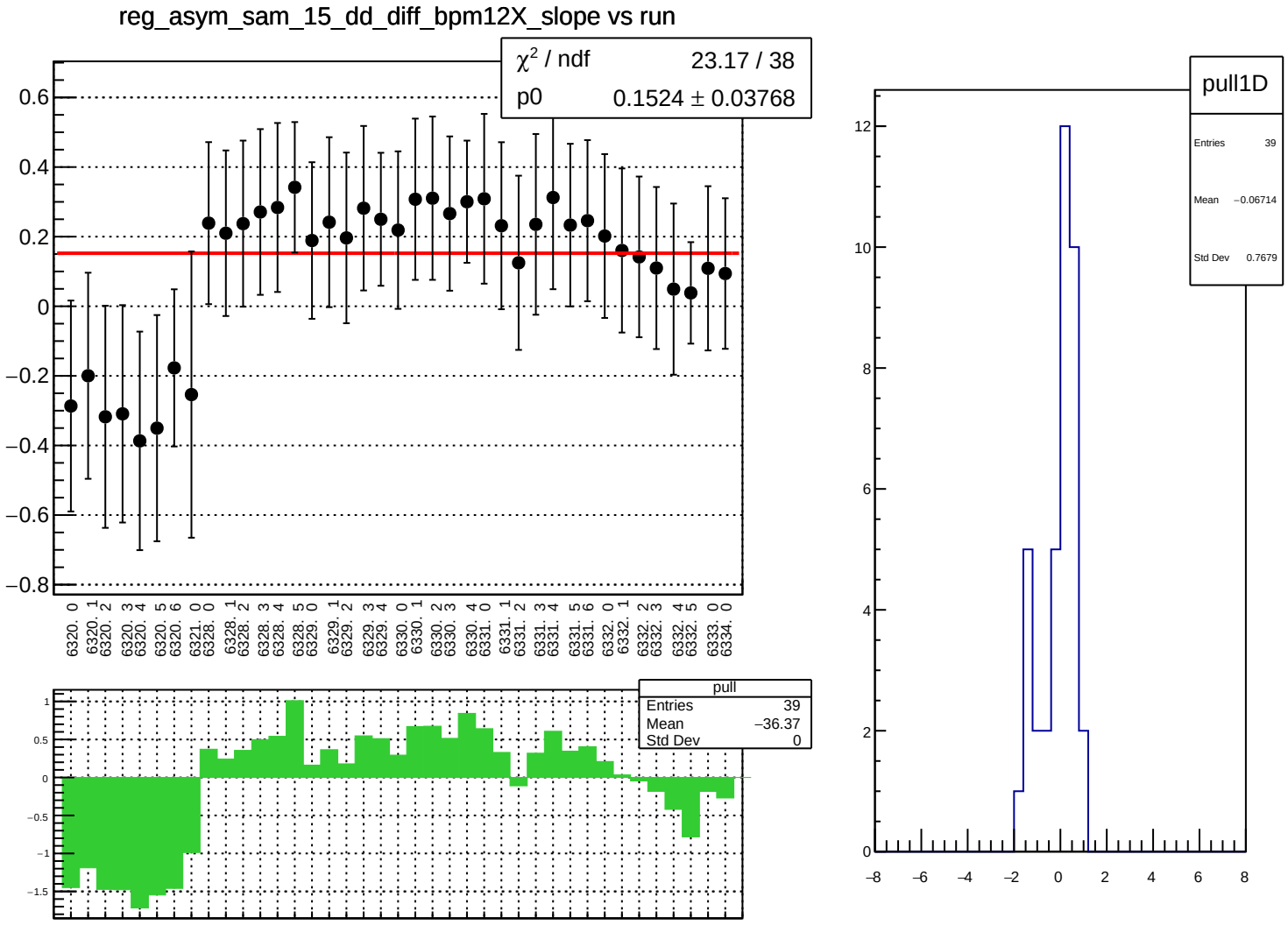

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.125 / 38
p0 −51.27 ± 0.6441
−44
−46
−48
−50
−52
−54
−56
−58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 71.02
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

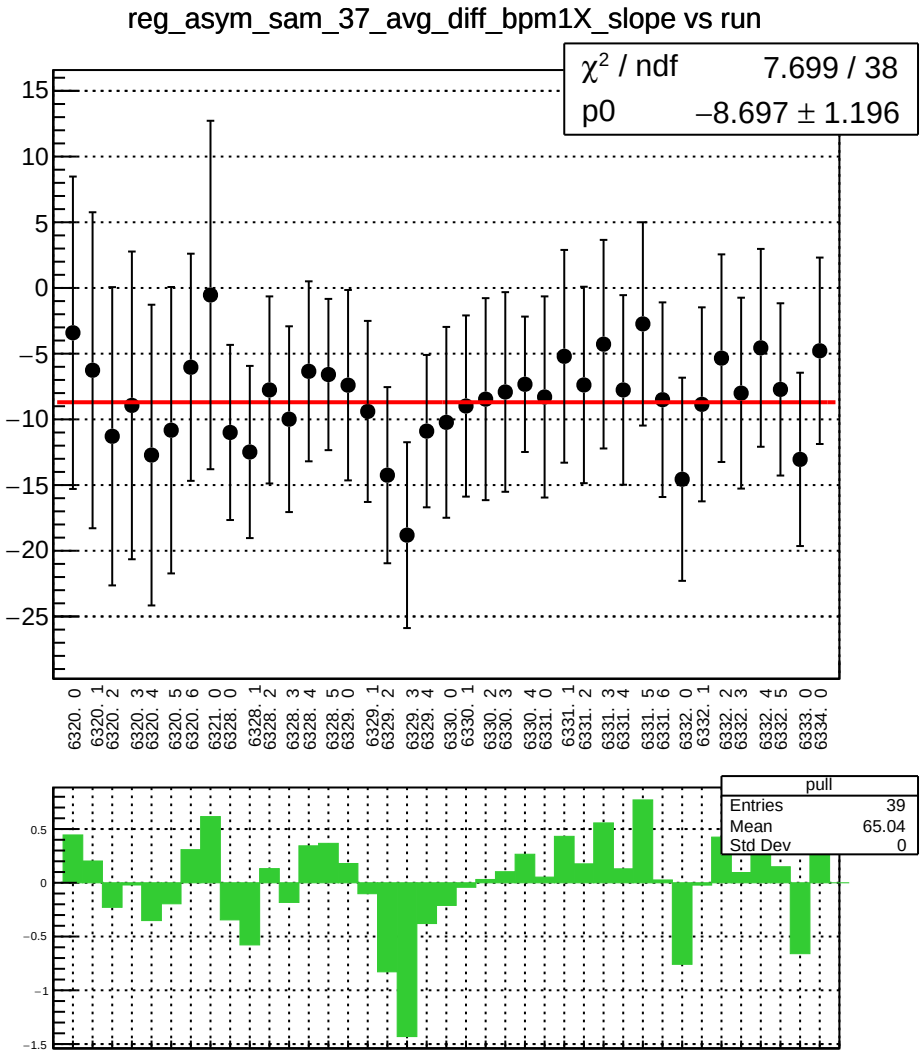

pull1D
Entries 39
Mean 0.04804
Std Dev 0.3217
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

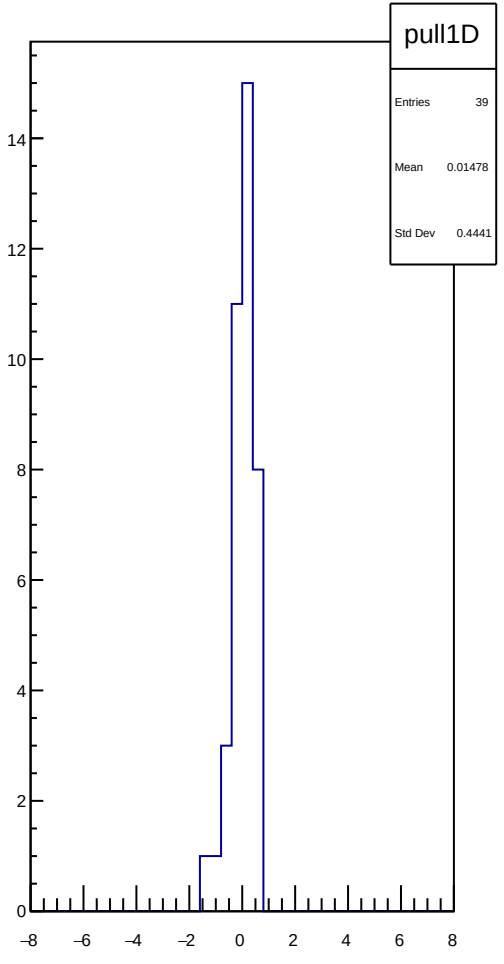

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.41 / 38
p0 −0.4005 ± 0.9203
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 54.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.08383
Std Dev 0.5098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

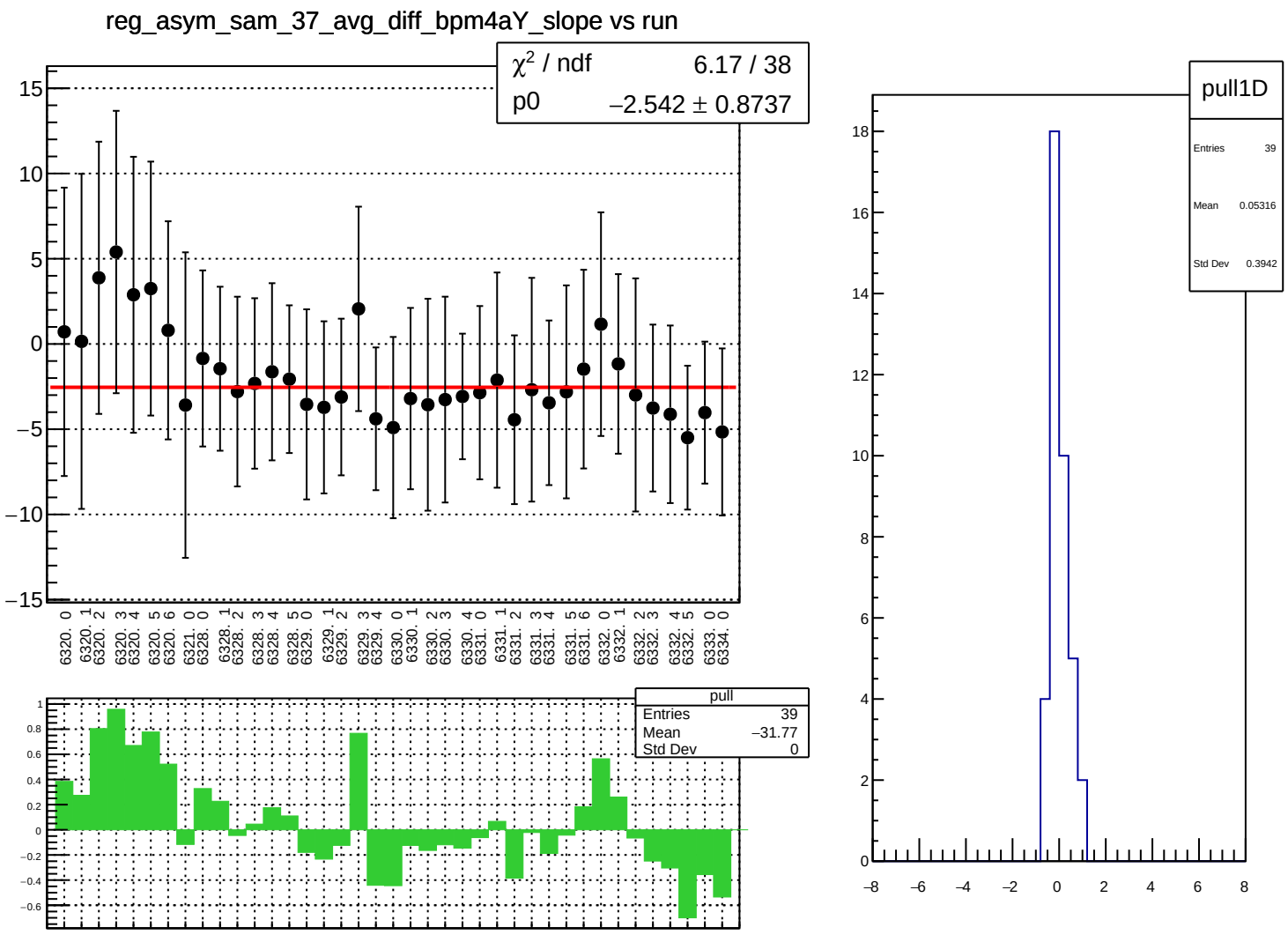

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.32 / 38
p0 −42.42 ± 0.7301
−30
−35
−40
−45
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 100.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

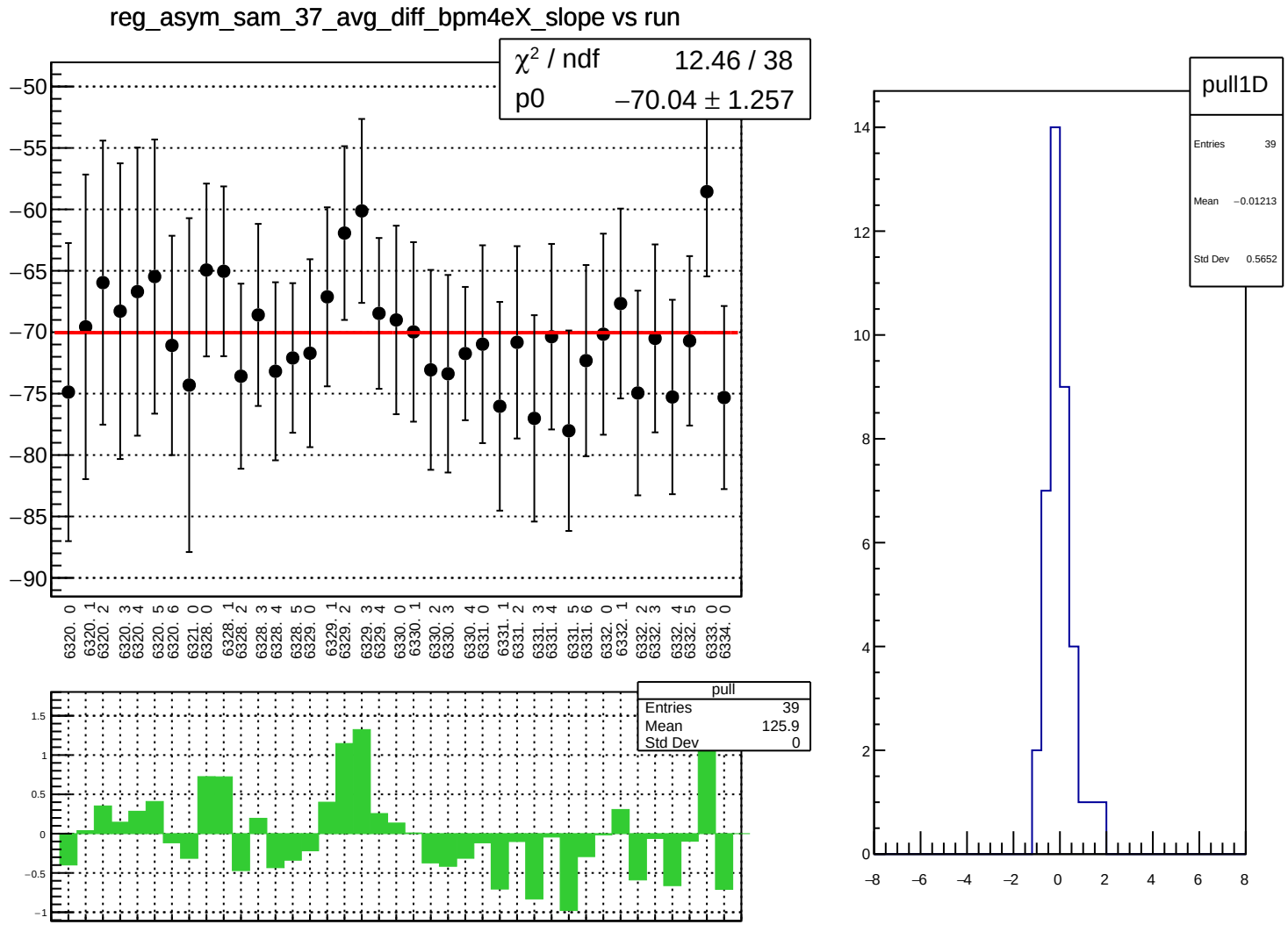

pull1D
Entries 39
Mean −0.07226
Std Dev 0.6625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

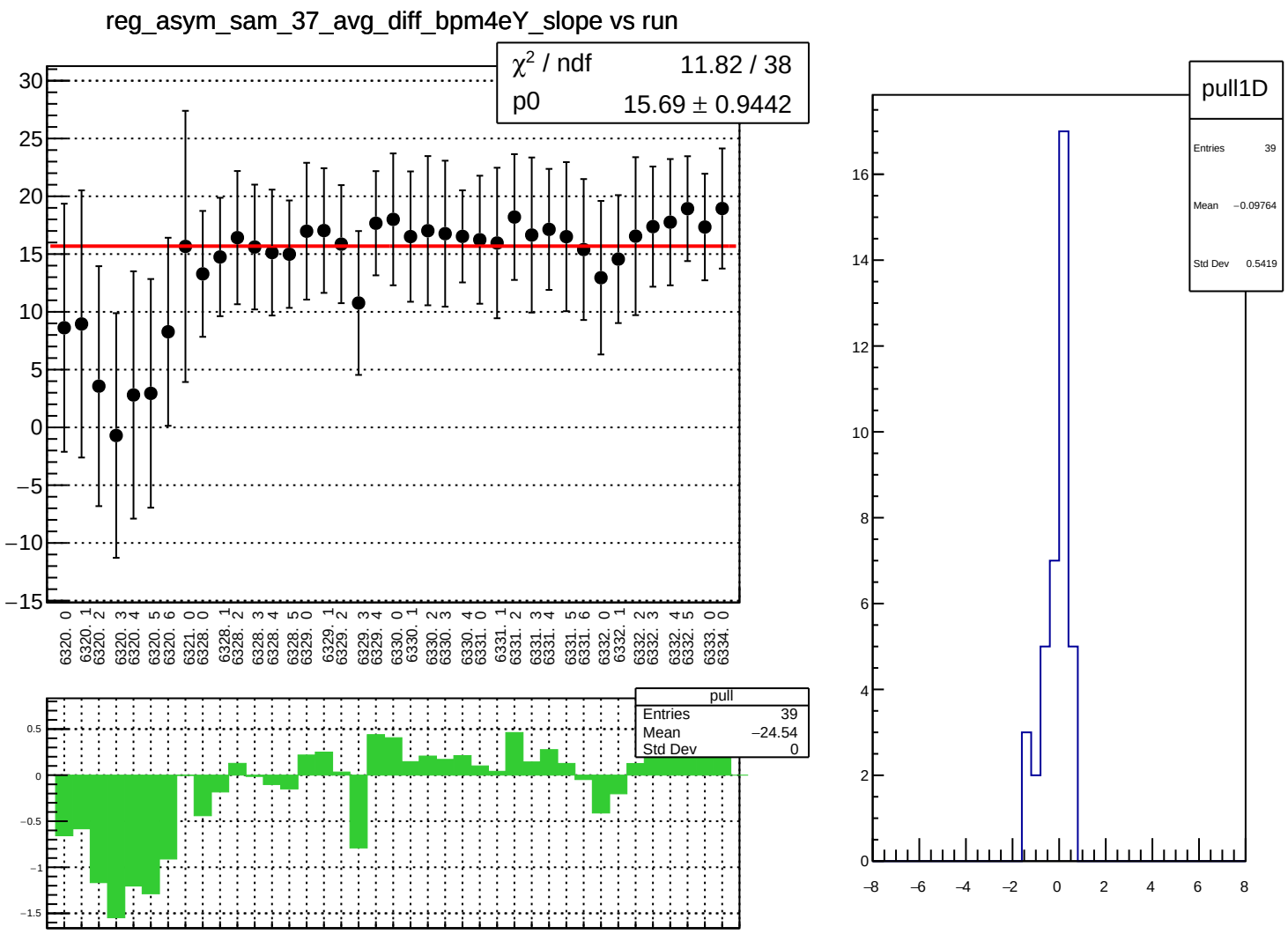

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 23.17 / 38
p0 0.1524 ± 0.03768
pull
Entries 39
Mean −36.37
Std Dev 0
pull1D
Entries 39
Mean −0.06714
Std Dev 0.7679

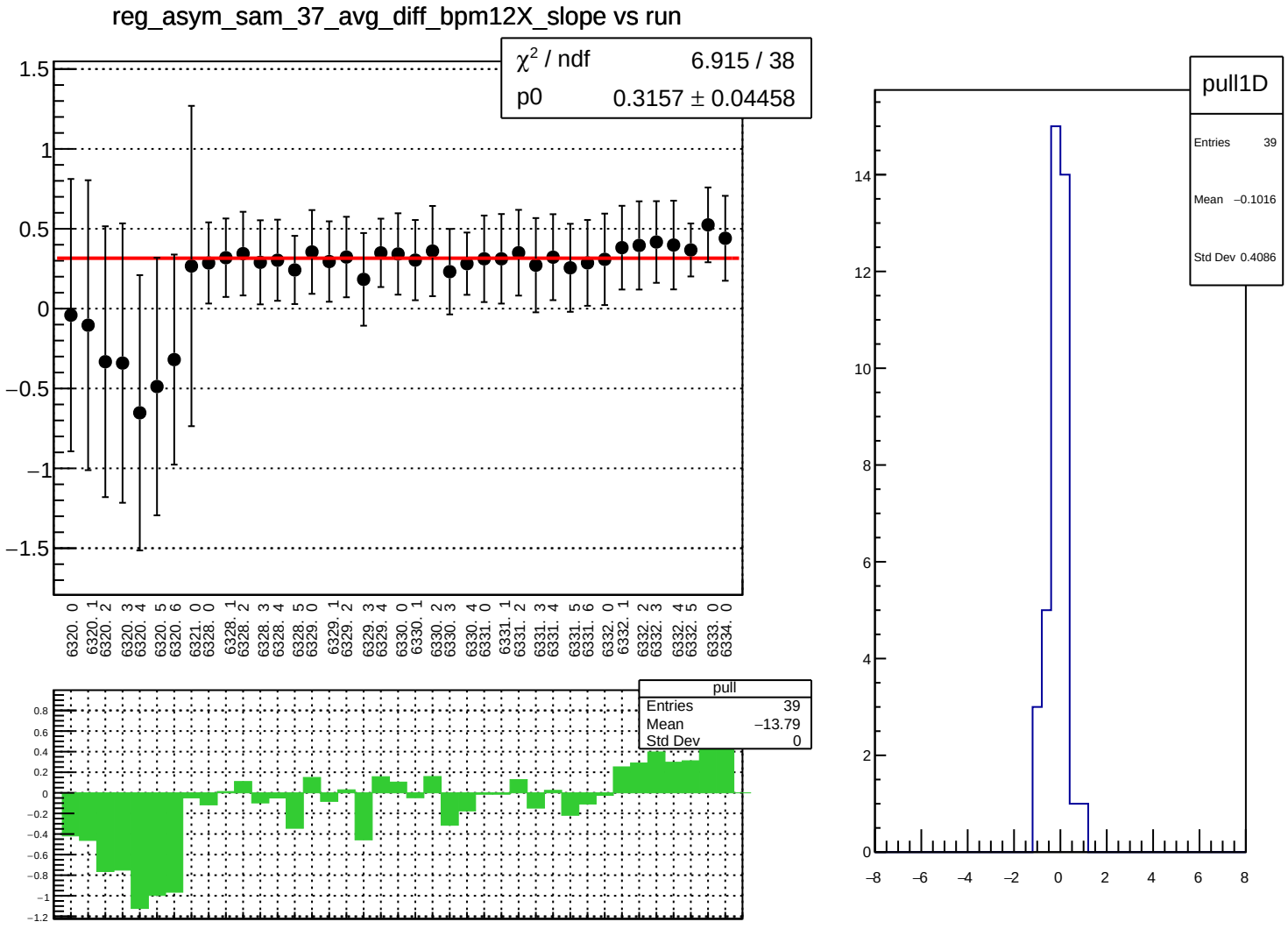

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 7.699 / 38
p0 −8.697 ± 1.196
pull
Entries 39
Mean 65.04
Std Dev 0

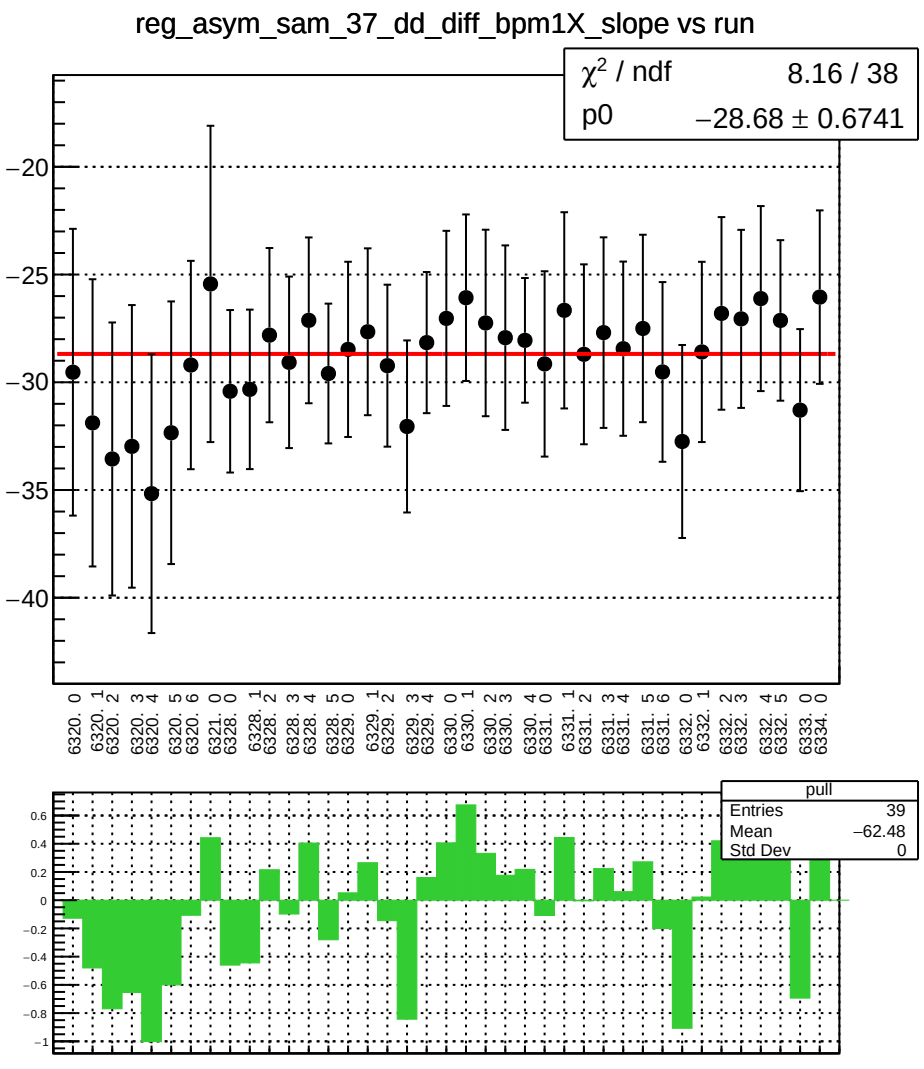

pull1D
Entries 39
Mean 0.01478
Std Dev 0.4441

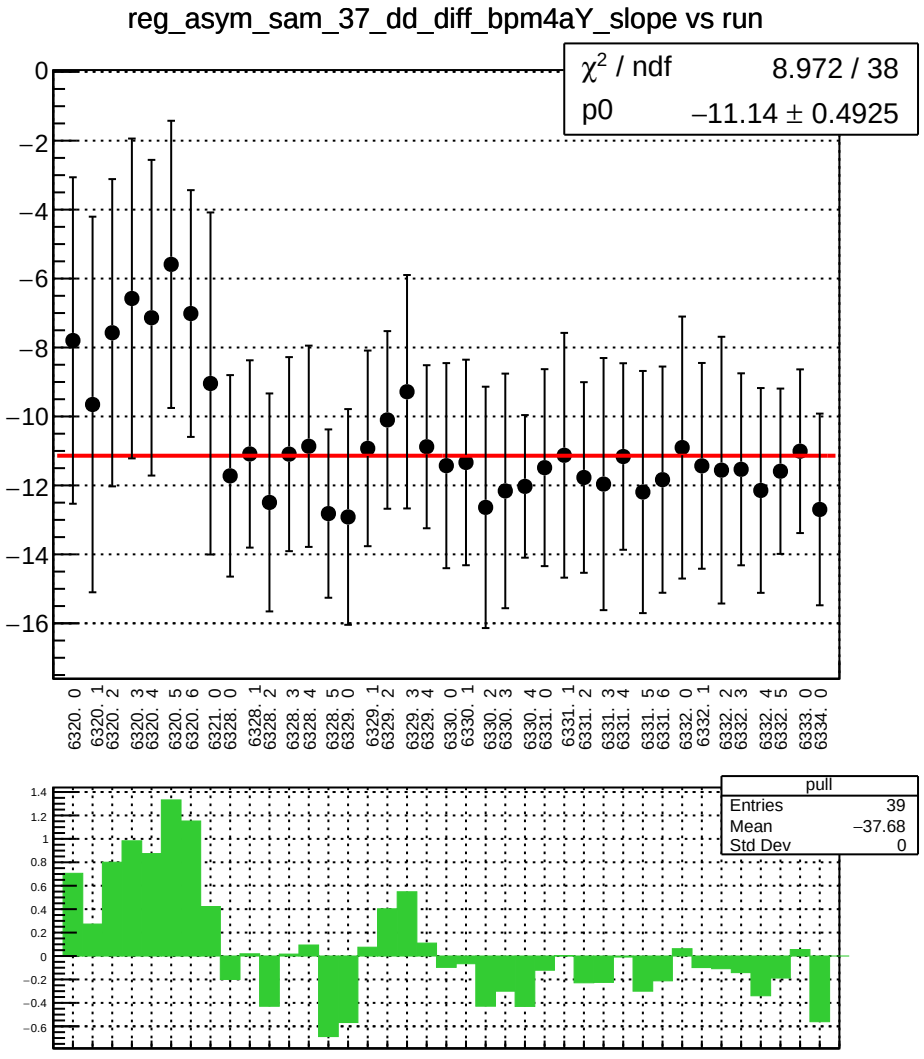

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.17 / 38
p0 −2.542 ± 0.8737
pull
Entries 39
Mean −31.77
Std Dev 0
pull1D
Entries 39
Mean 0.05316
Std Dev 0.3942

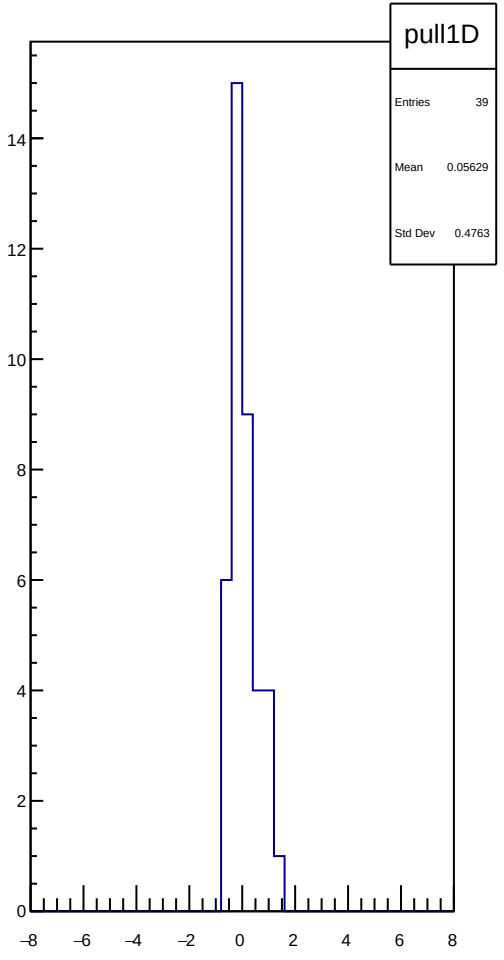

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.46 / 38
p0 −70.04 ± 1.257
−50
−55
−60
−65
−70
−75
−80
−85
−90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 125.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.01213
Std Dev 0.5652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

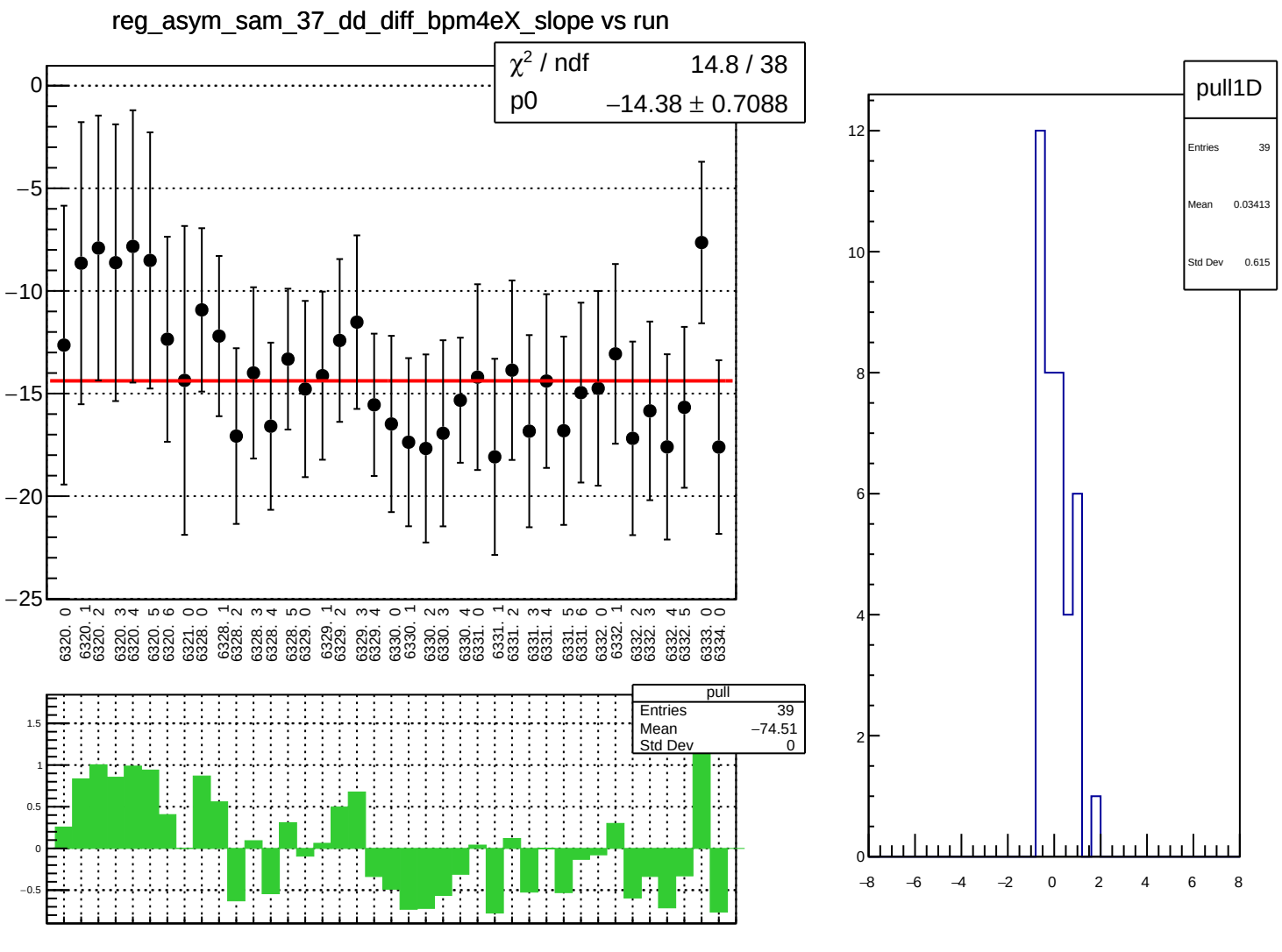

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.82 / 38
p0 15.69 ± 0.9442
pull
Entries 39
Mean −24.54
Std Dev 0
pull1D
Entries 39
Mean −0.09764
Std Dev 0.5419

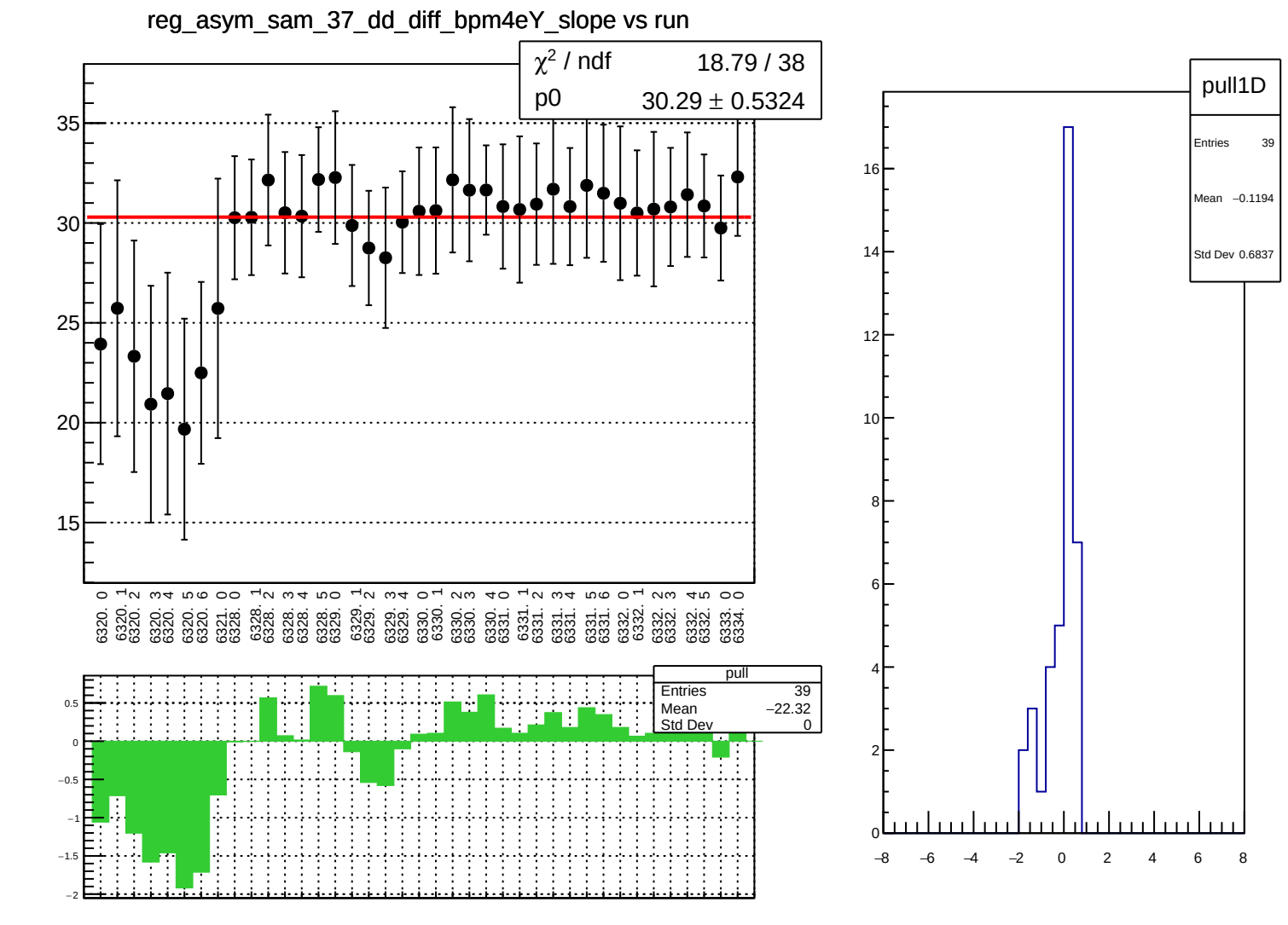

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 6.915 / 38
p0 0.3157 ± 0.04458
pull
Entries 39
Mean −13.79
Std Dev 0
pull1D
Entries 39
Mean −0.1016
Std Dev 0.4086

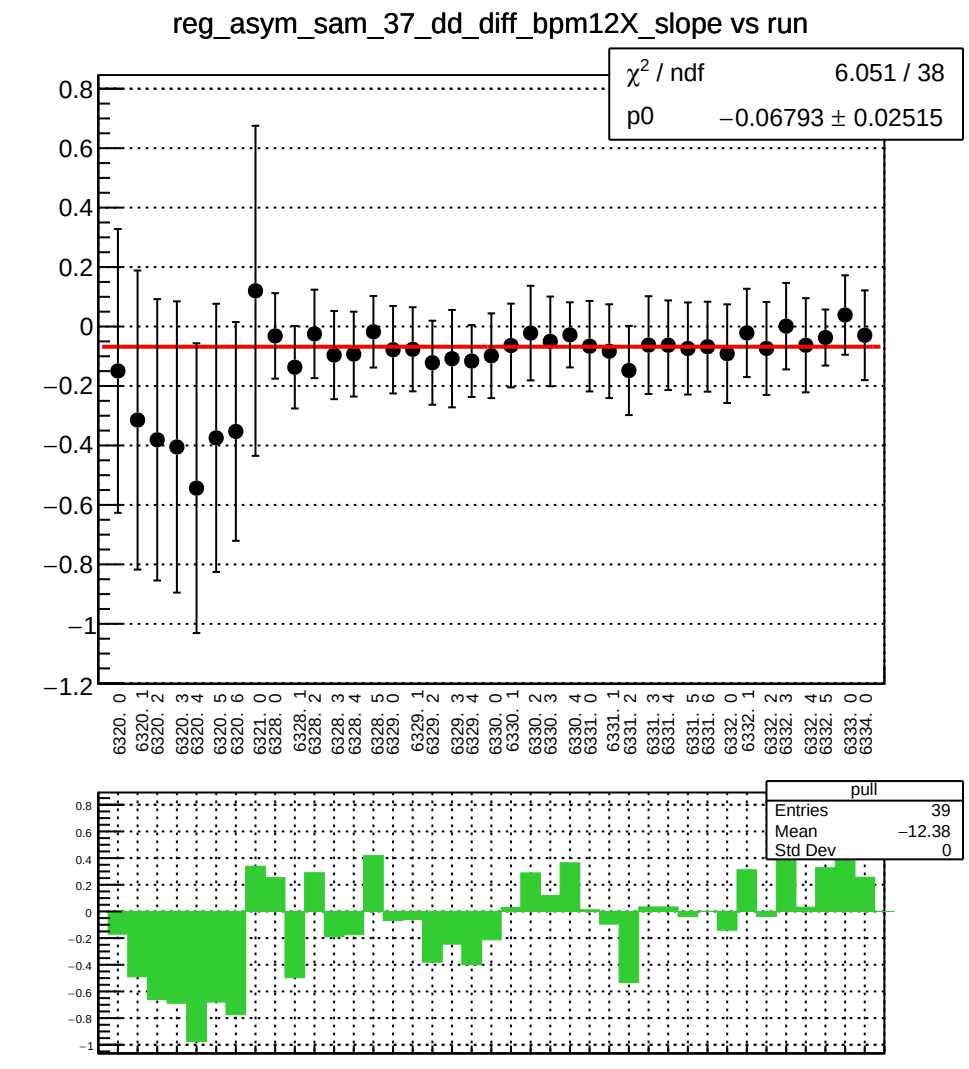

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.16 / 38
p0 −28.68 ± 0.6741
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −62.48
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.02735
Std Dev 0.4566
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

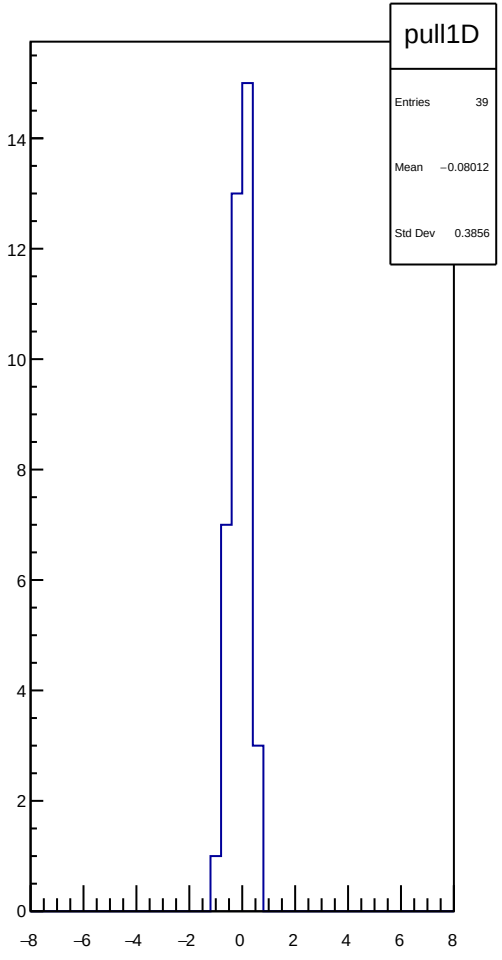

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.972 / 38
p0 −11.14 ± 0.4925
pull
Entries 39
Mean −37.68
Std Dev 0

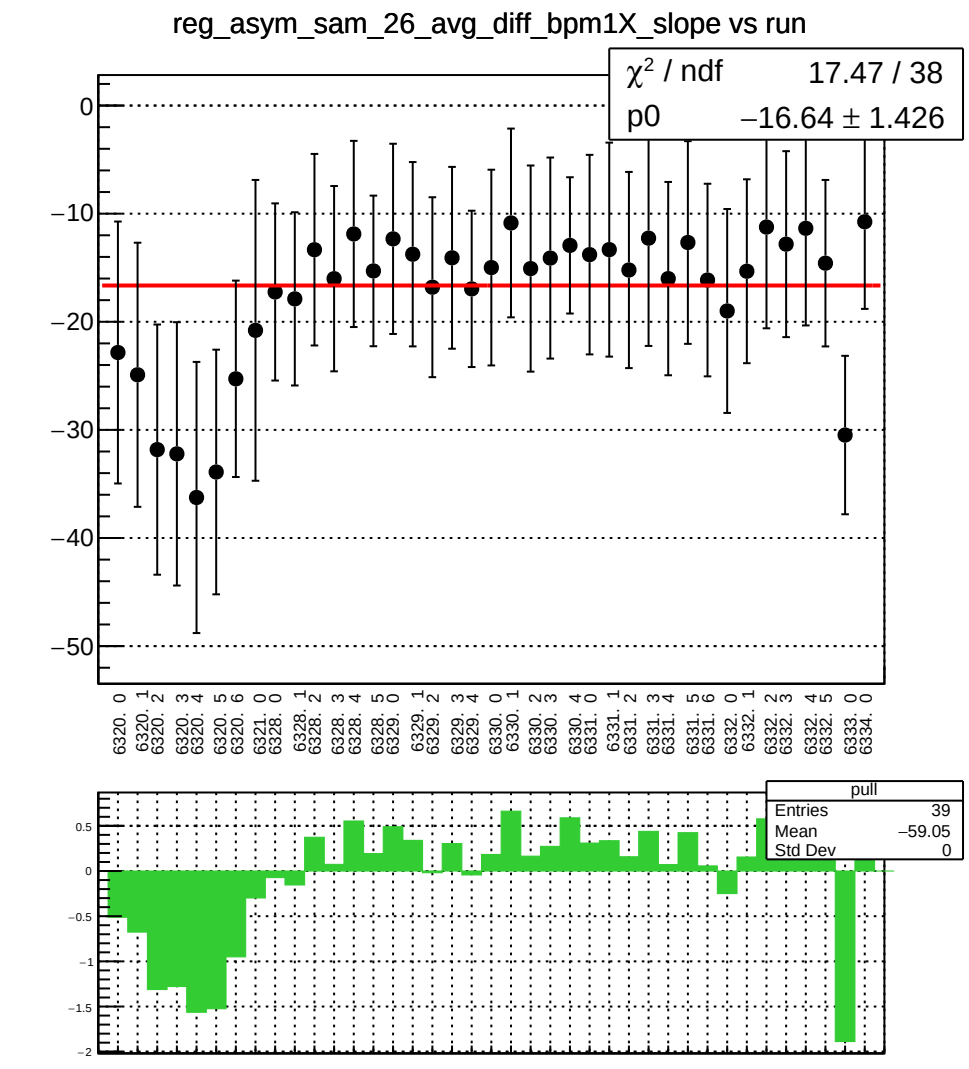

pull1D
Entries 39
Mean 0.05629
Std Dev 0.4763

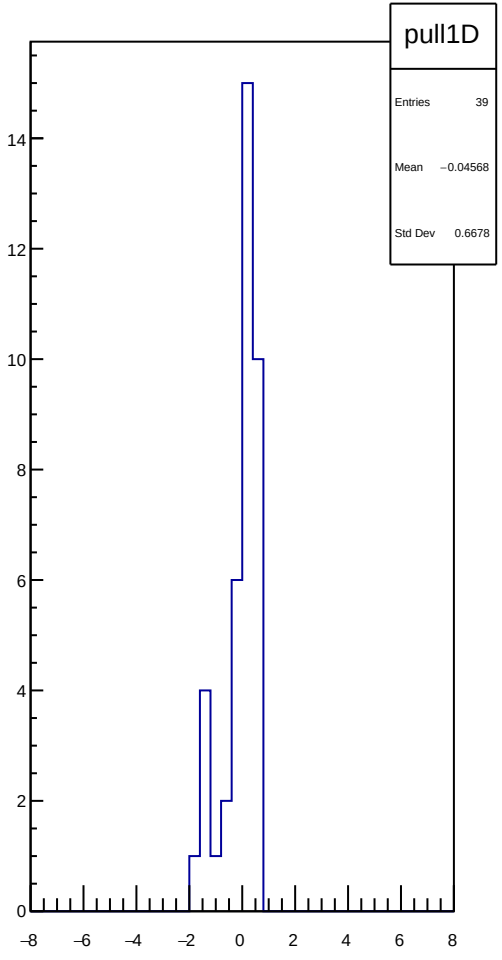

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.8 / 38
p0 −14.38 ± 0.7088
pull
Entries 39
Mean −74.51
Std Dev 0
pull1D
Entries 39
Mean 0.03413
Std Dev 0.615

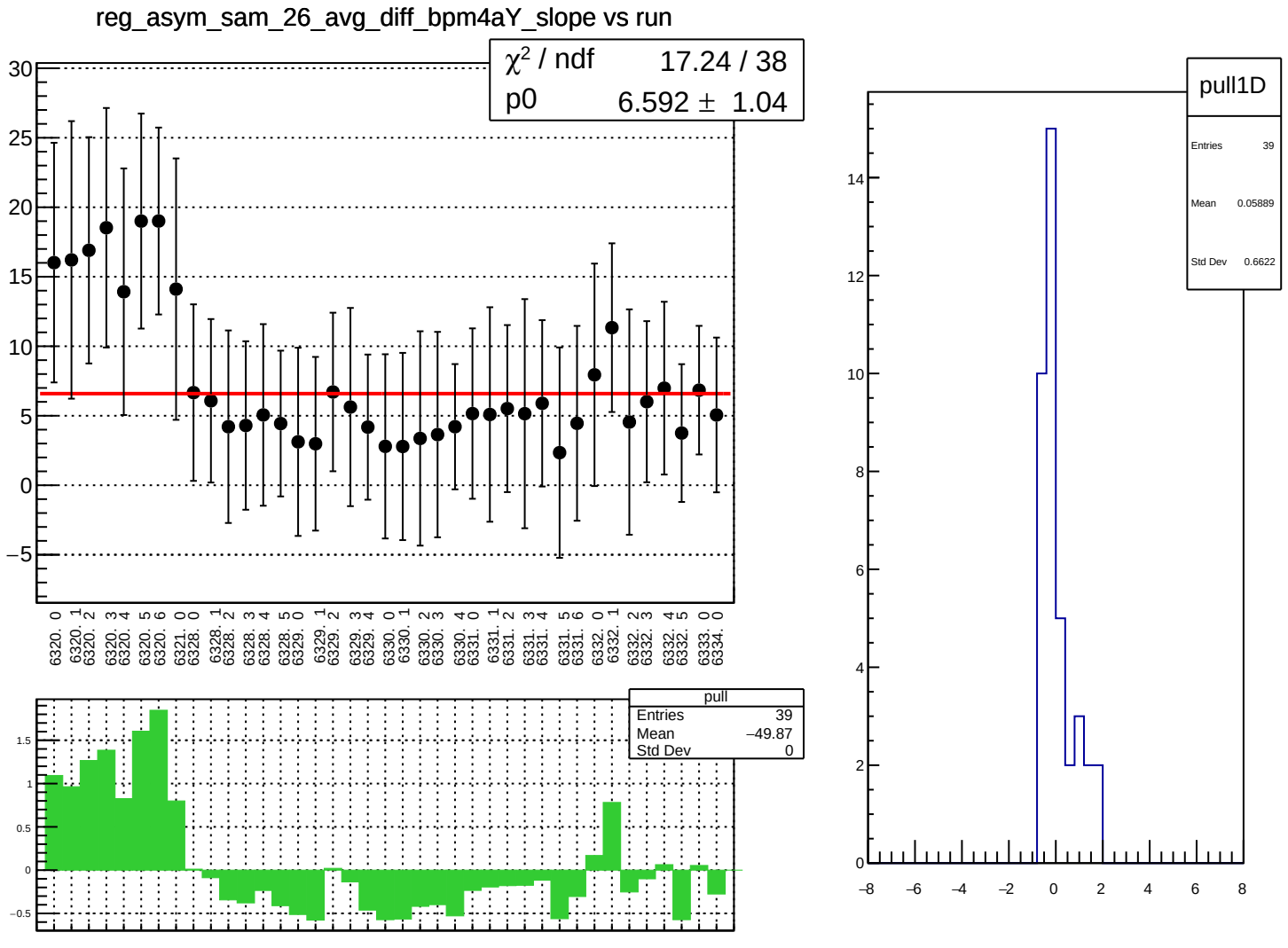

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.79 / 38
p0 30.29 ± 0.5324
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −22.32
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1194
Std Dev 0.6837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

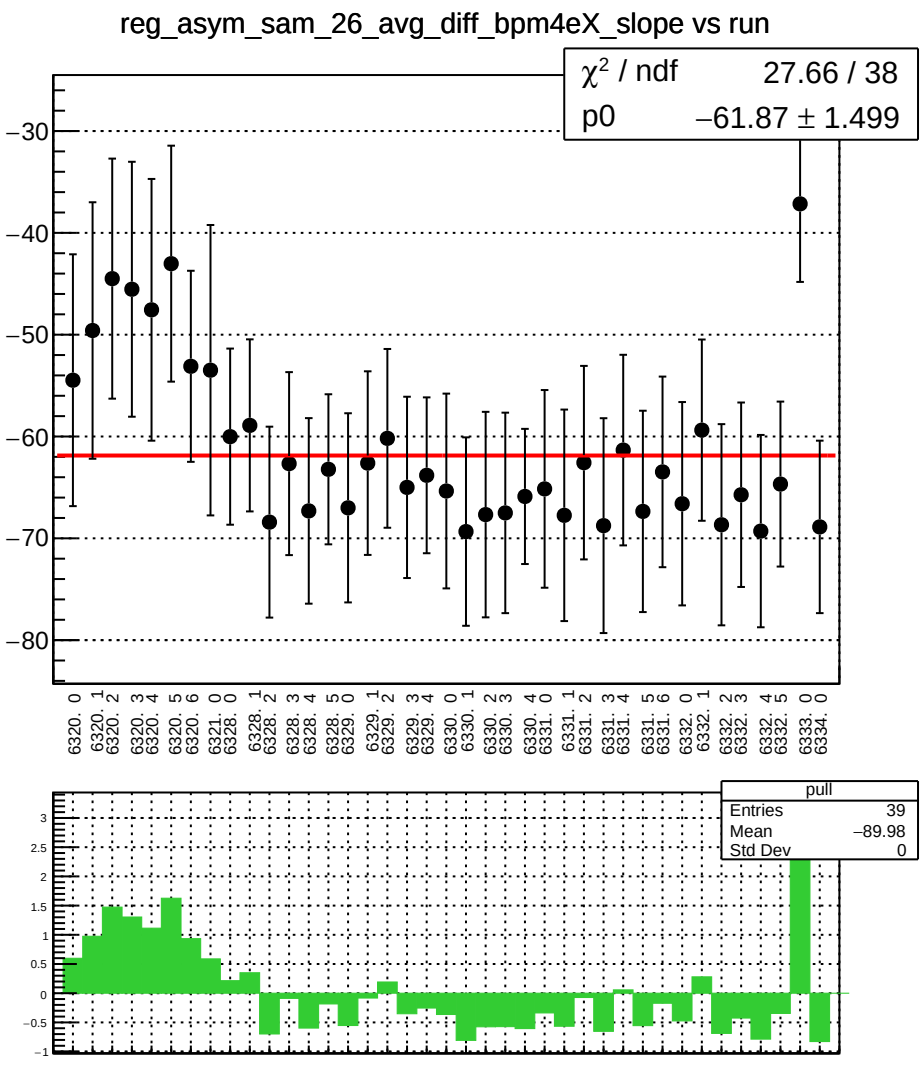

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.051 / 38
p0 −0.06793 ± 0.02515
pull
Entries 39
Mean −12.38
Std Dev 0

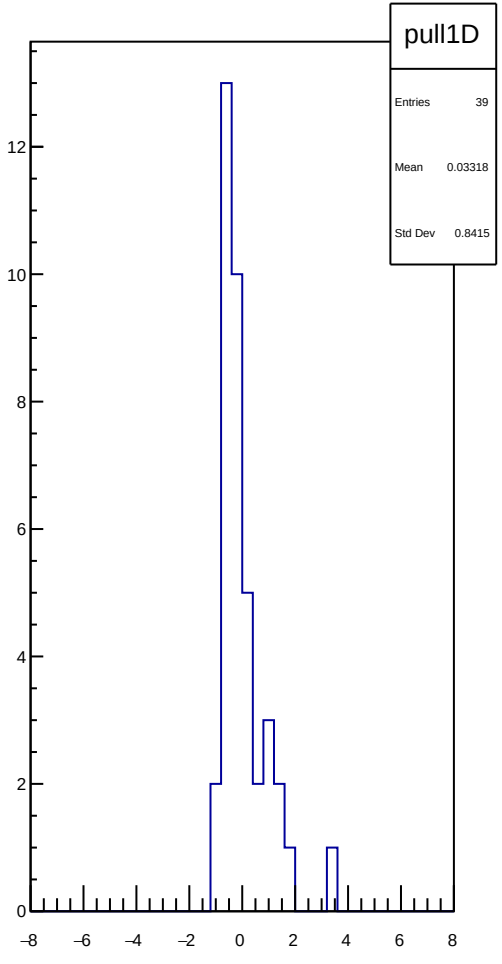

pull1D
Entries 39
Mean −0.08012
Std Dev 0.3856

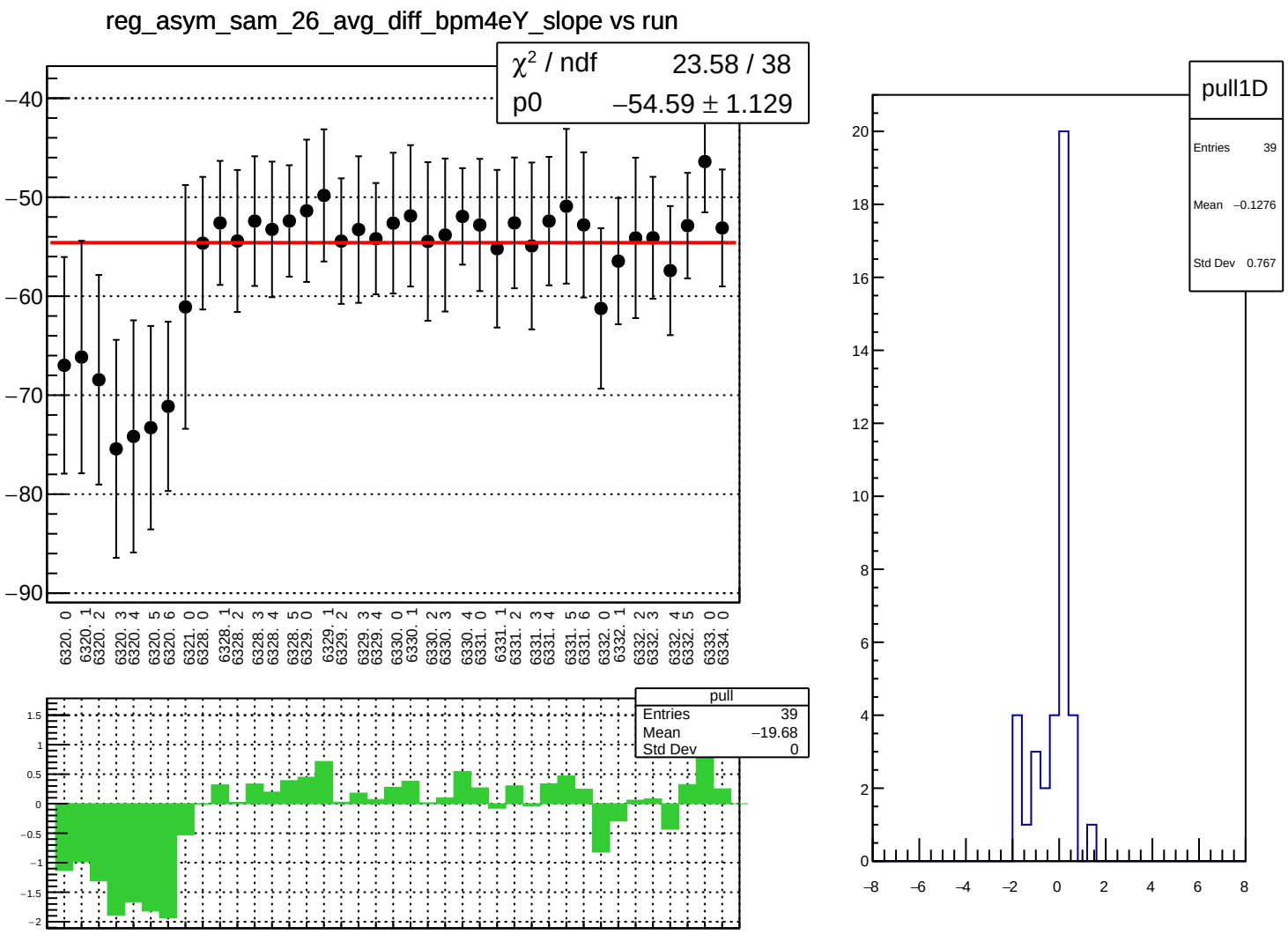

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 17.47 / 38
p0 −16.64 ± 1.426
pull
Entries 39
Mean −59.05
Std Dev 0

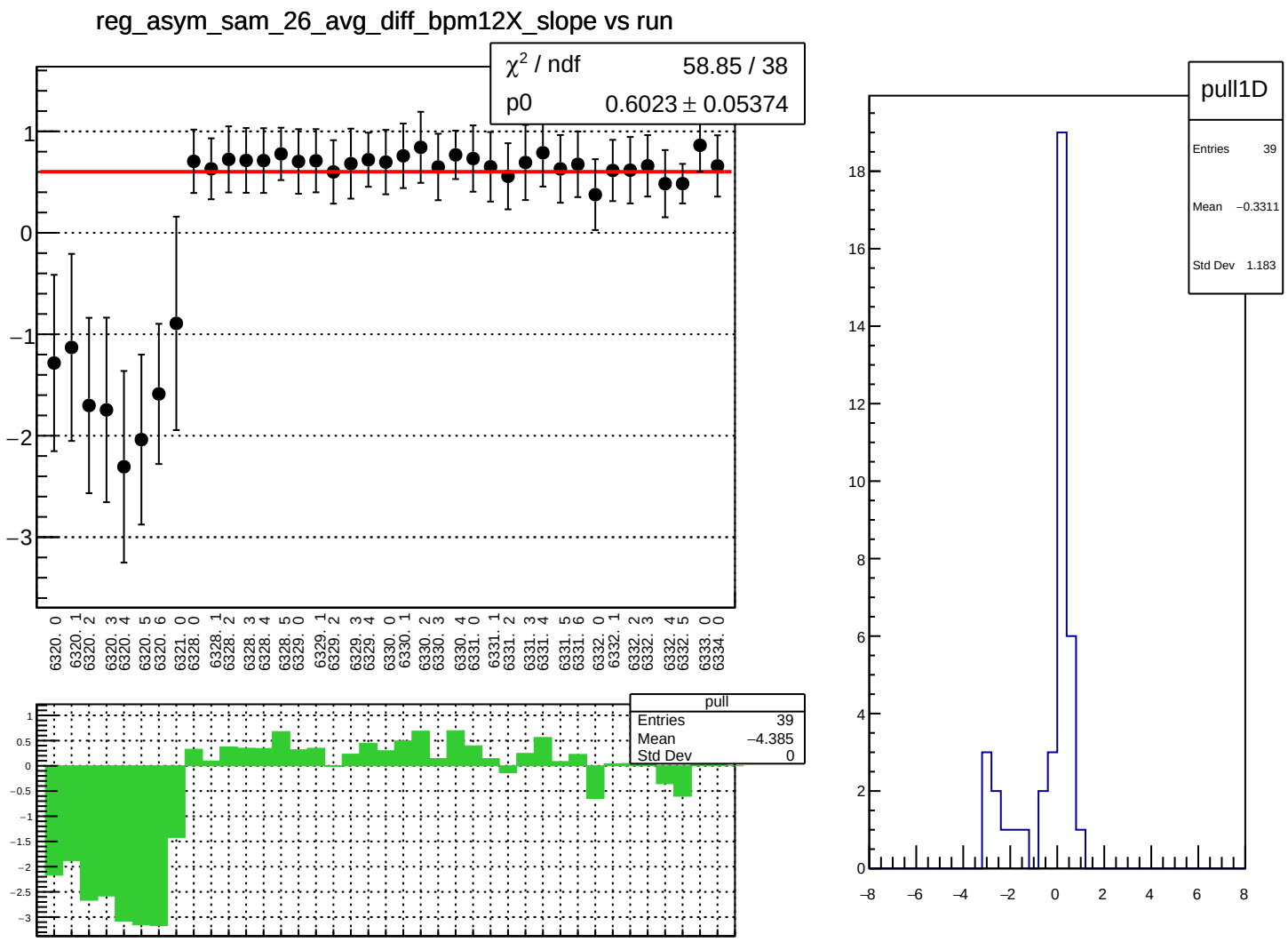

pull1D
Entries 39
Mean −0.04568
Std Dev 0.6678

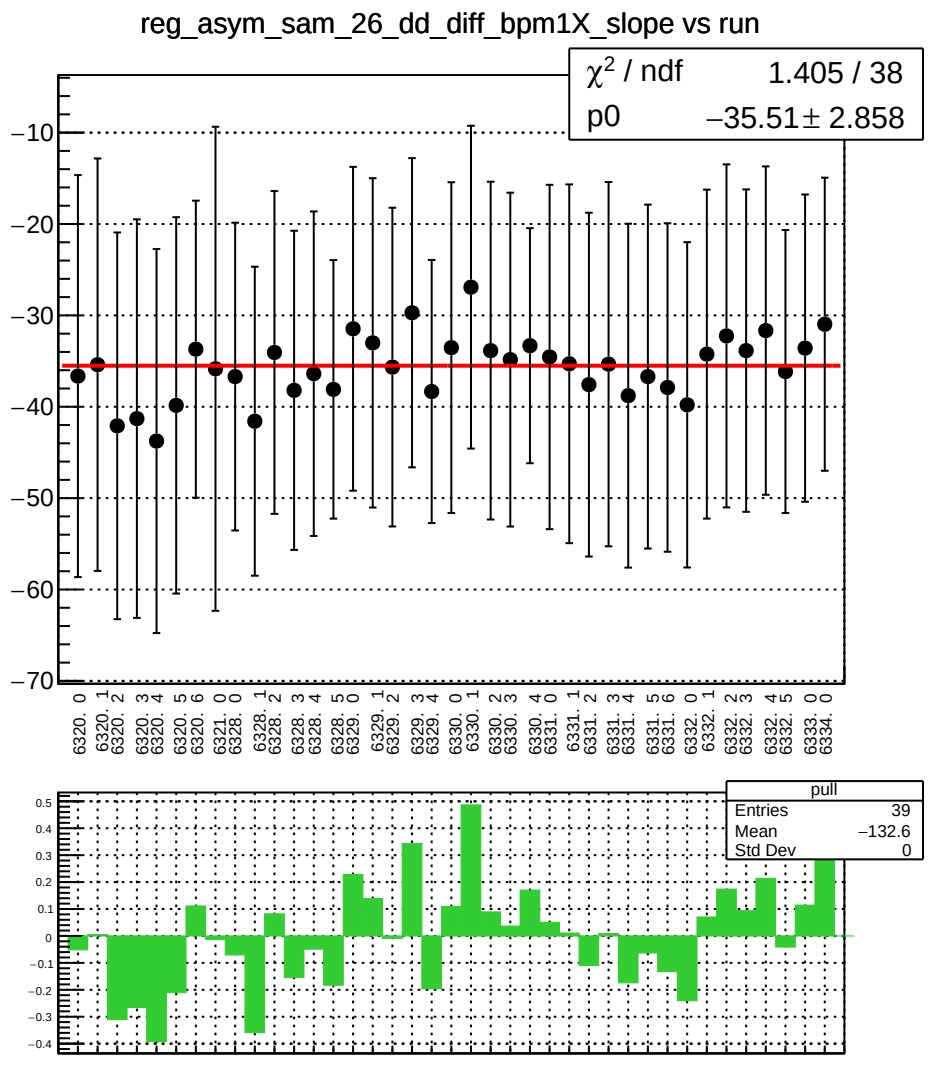

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.24 / 38
p0 6.592 ± 1.04
pull
Entries 39
Mean −49.87
Std Dev 0
pull1D
Entries 39
Mean 0.05889
Std Dev 0.6622

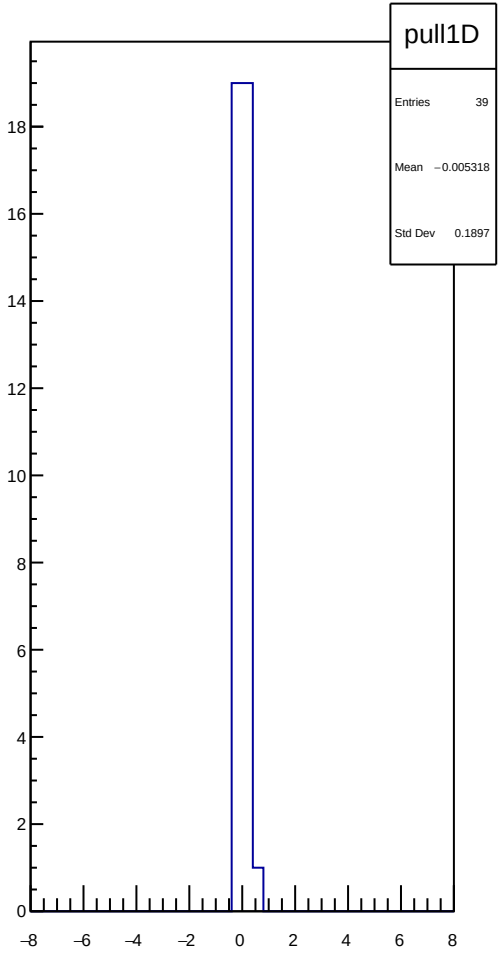

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.66 / 38
p0 −61.87 ± 1.499
pull
Entries 39
Mean −89.98
Std Dev 0

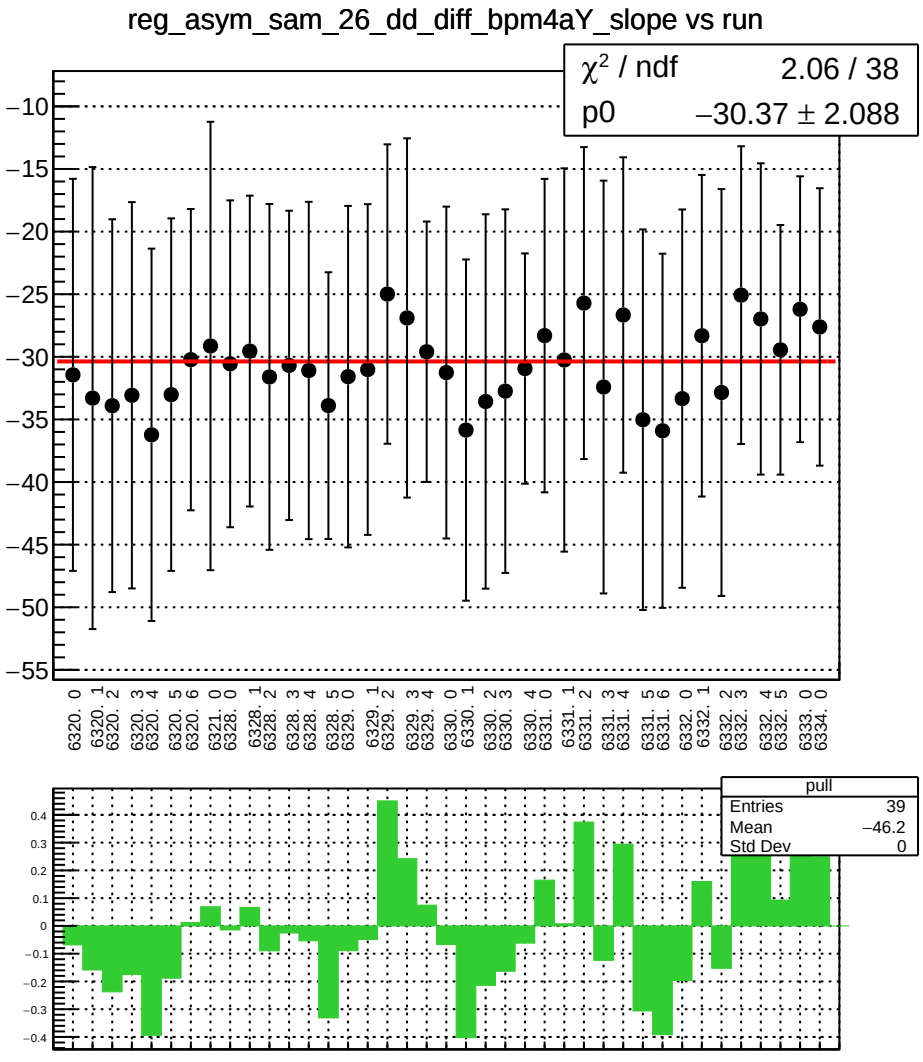

pull1D
Entries 39
Mean 0.03318
Std Dev 0.8415

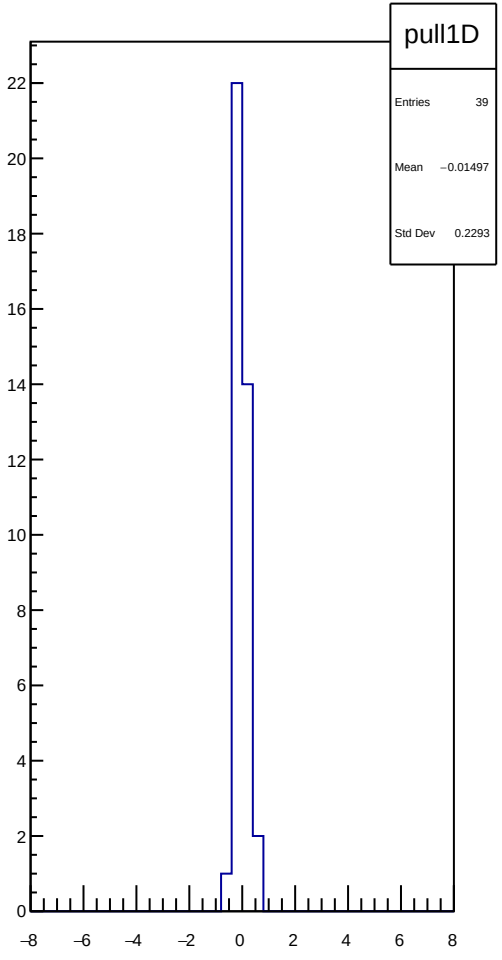

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.58 / 38
p0 −54.59 ± 1.129
−40
−50
−60
−70
−80
−90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −19.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.1276
Std Dev 0.767
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

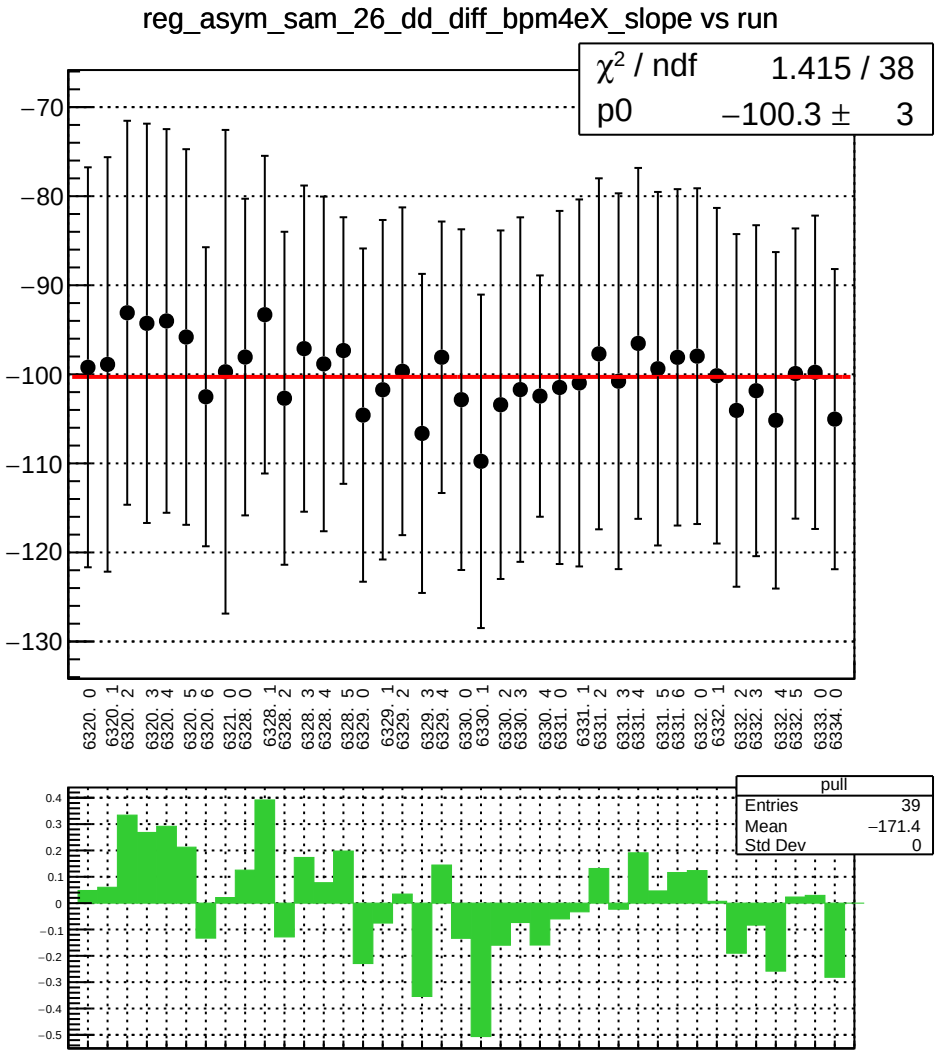

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 58.85 / 38
p0 0.6023 ± 0.05374
pull
Entries 39
Mean −4.385
Std Dev 0
pull1D
Entries 39
Mean −0.3311
Std Dev 1.183

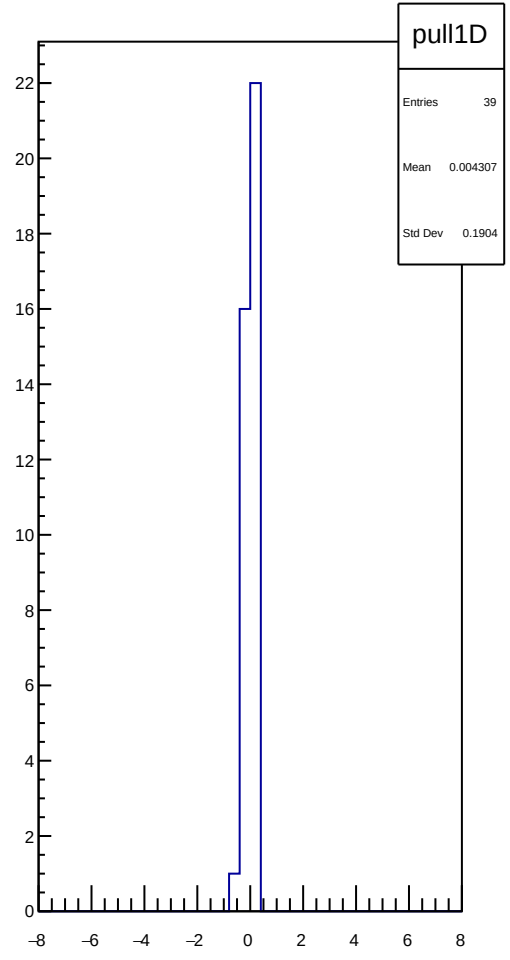

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.405 / 38
p0 −35.51± 2.858
pull
Entries 39
Mean −132.6
Std Dev 0

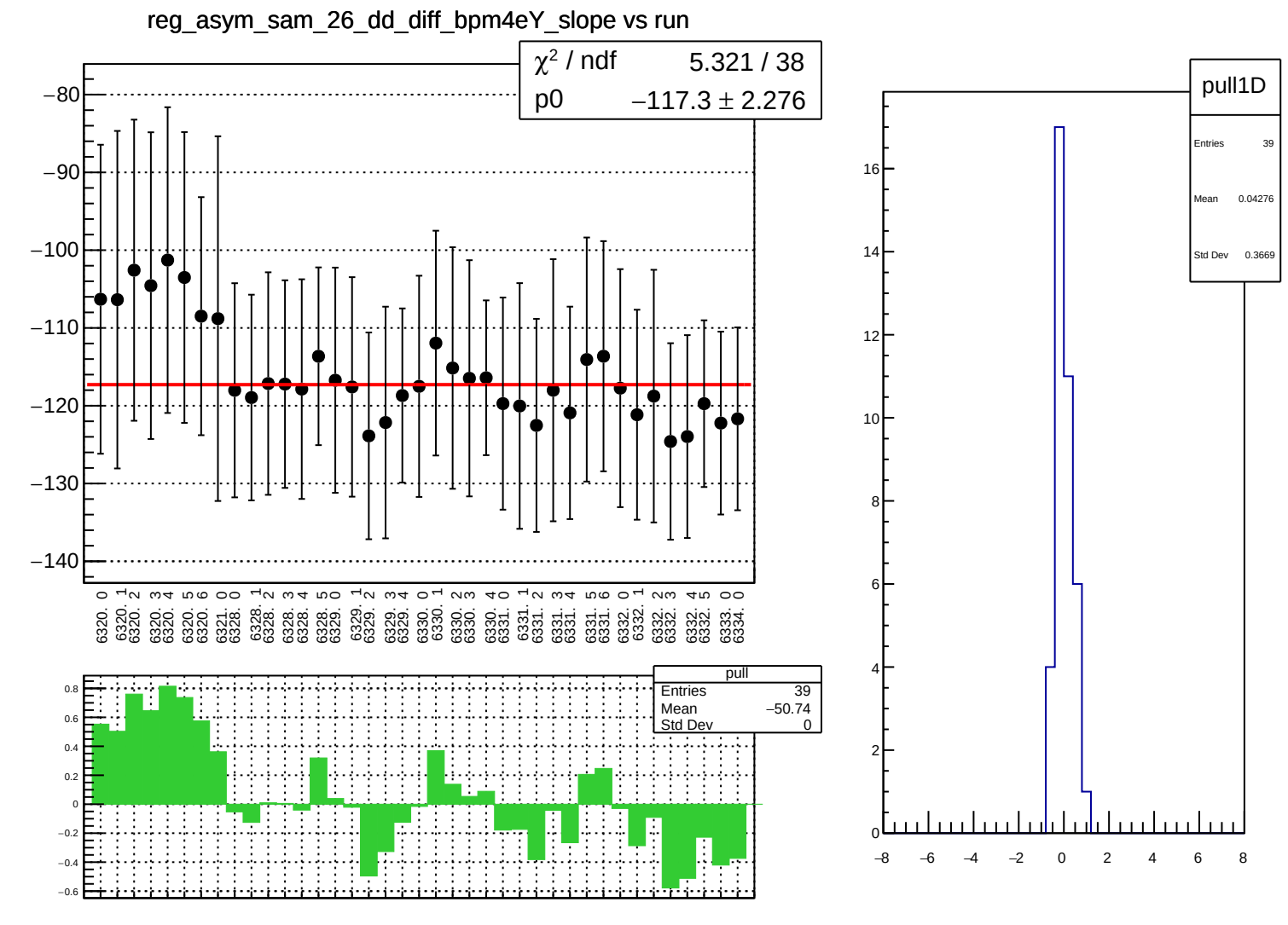

pull1D
Entries 39
Mean −0.005318
Std Dev 0.1897

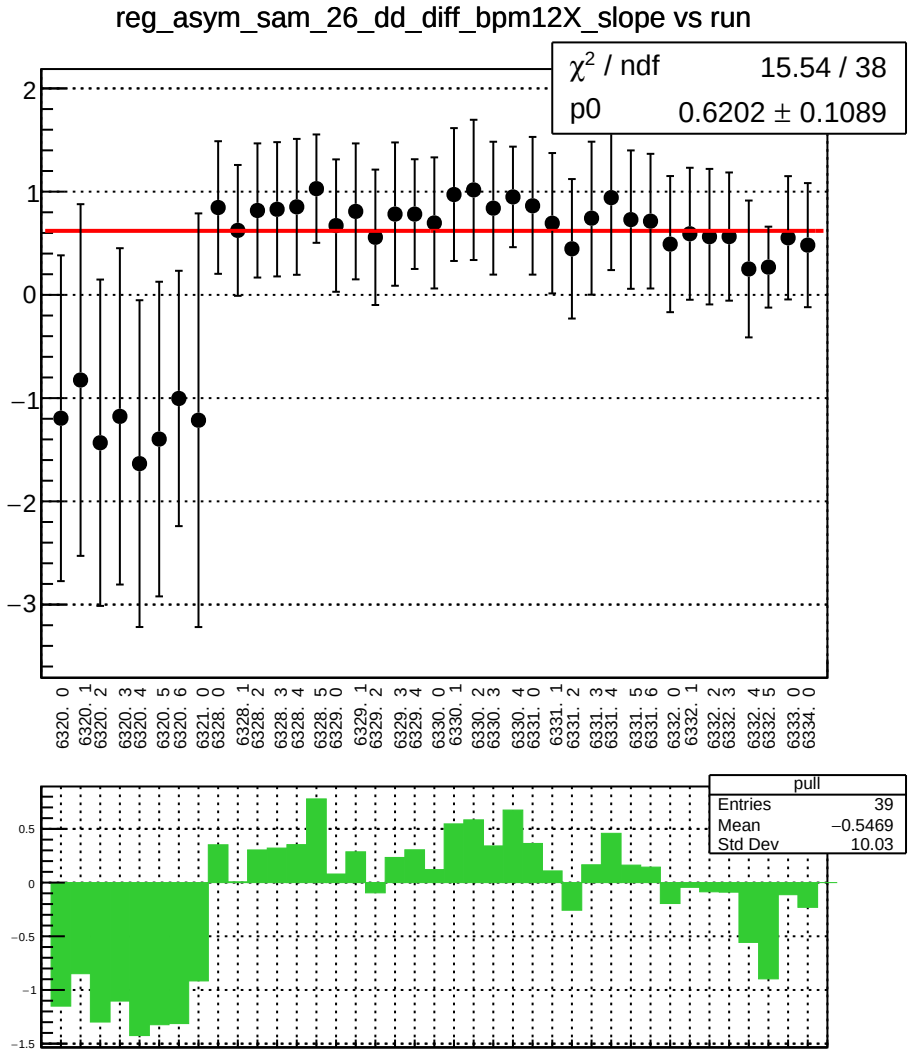

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.06 / 38
p0 −30.37 ± 2.088
pull
Entries 39
Mean −46.2
Std Dev 0

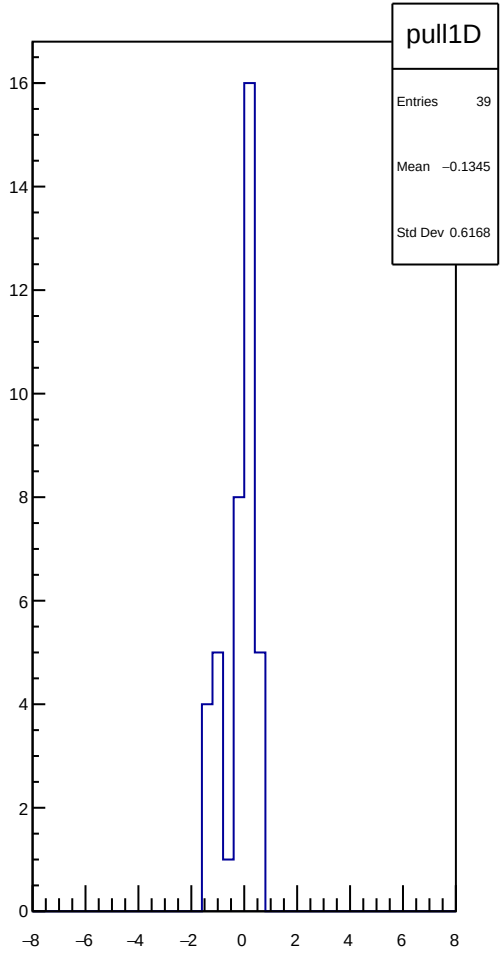

pull1D
Entries 39
Mean −0.01497
Std Dev 0.2293

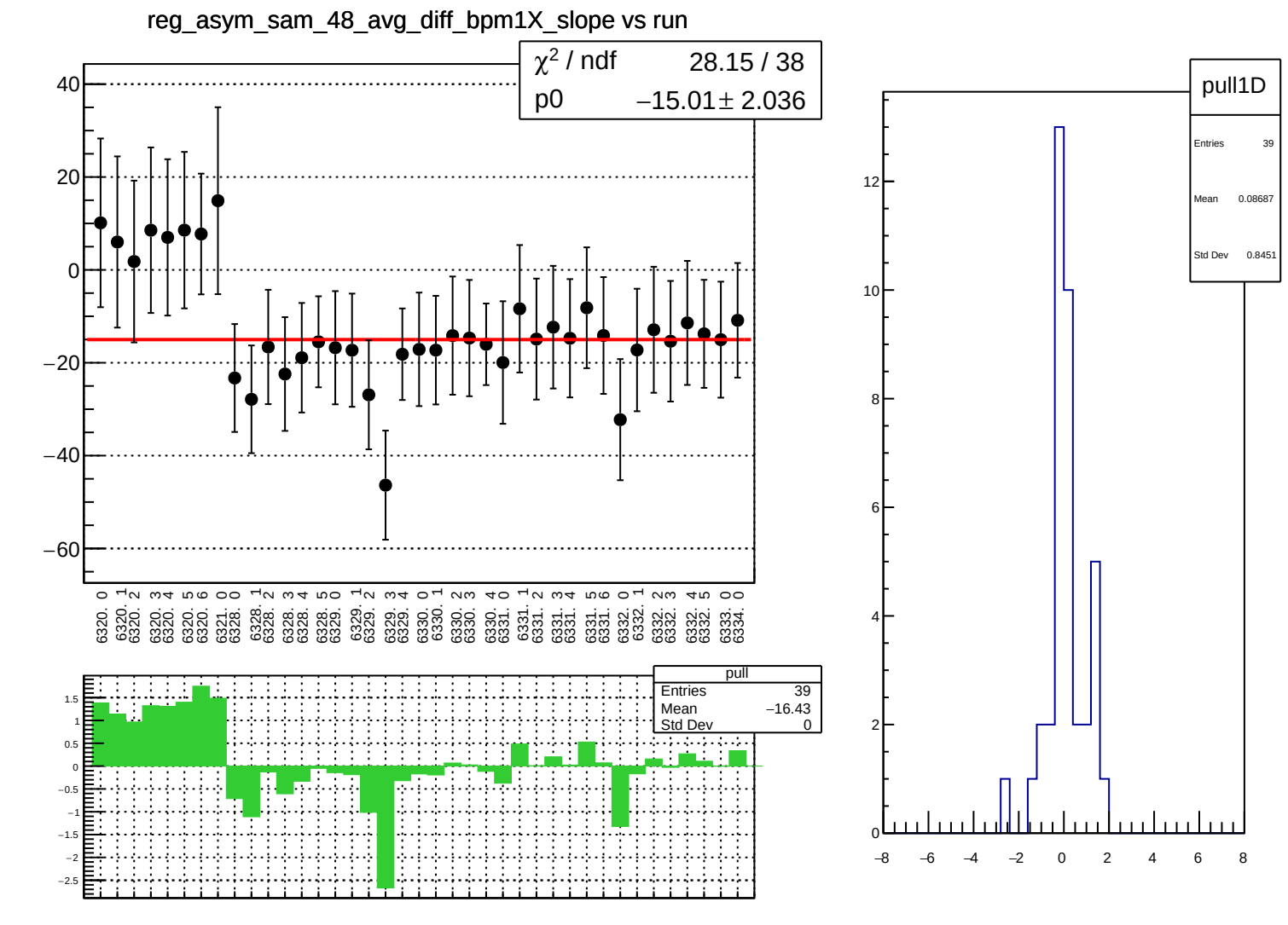

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.415 / 38
p0 −100.3 ± 3
pull
Entries 39
Mean −171.4
Std Dev 0

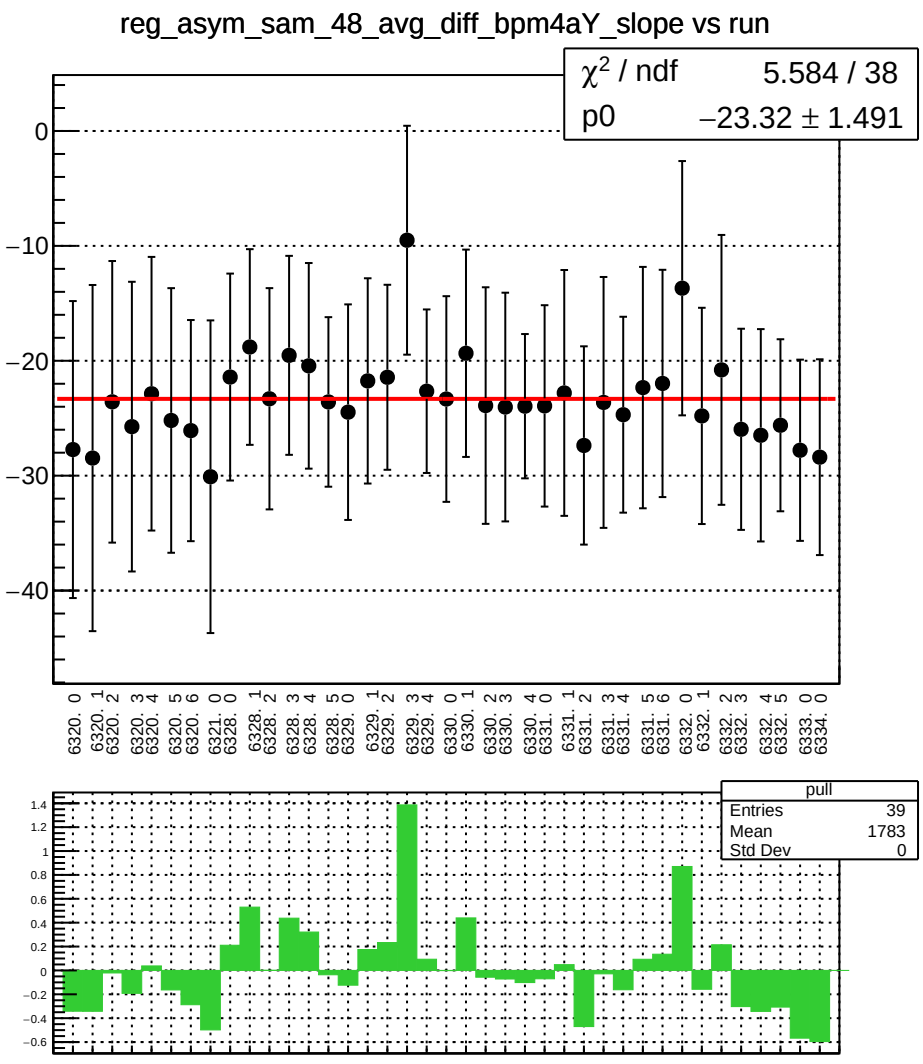

pull1D
Entries 39
Mean 0.004307
Std Dev 0.1904

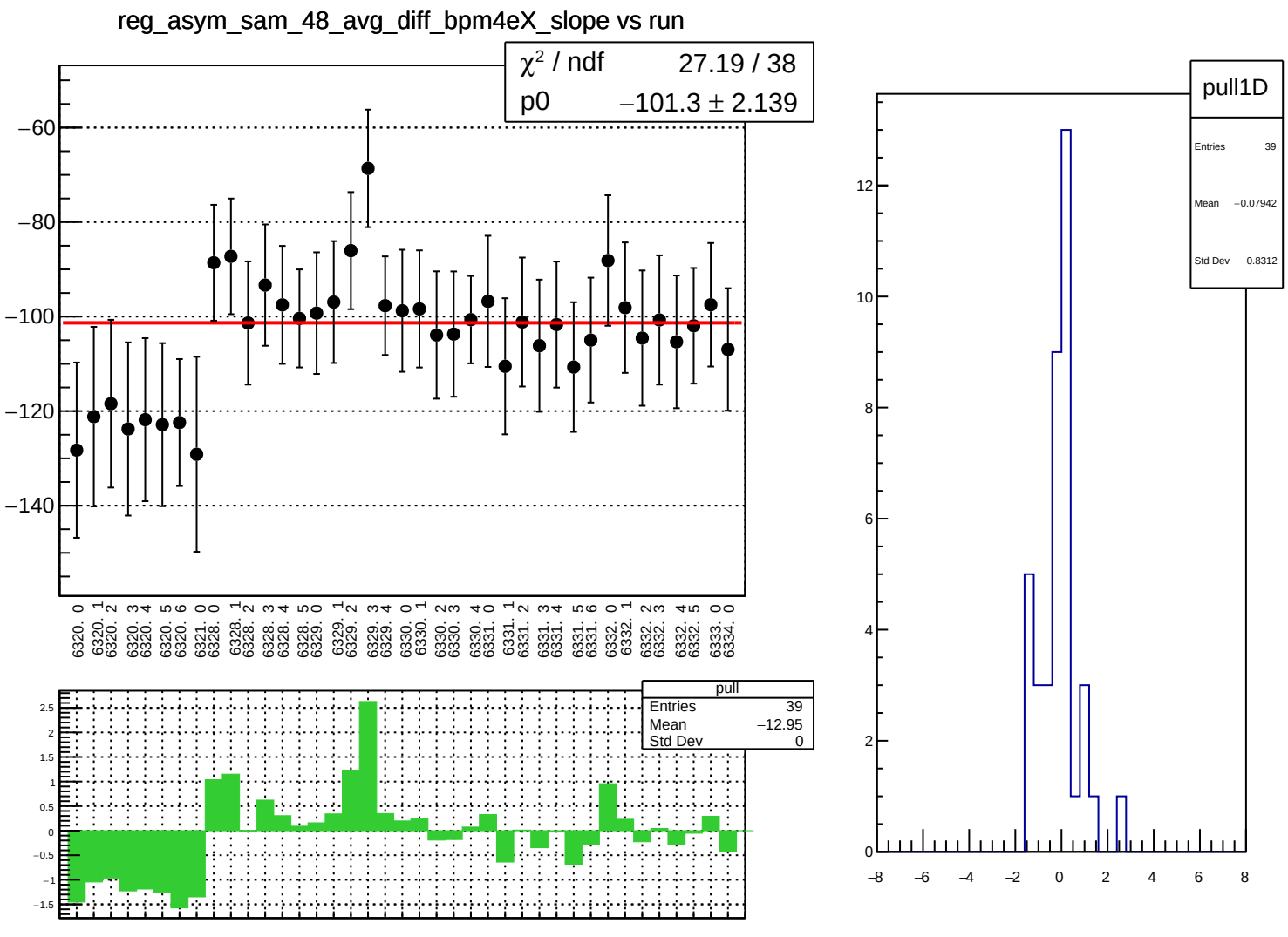

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.321 / 38
p0 −117.3 ± 2.276
−80
−90
−100
−110
−120
−130
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −50.74
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.04276
Std Dev 0.3669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

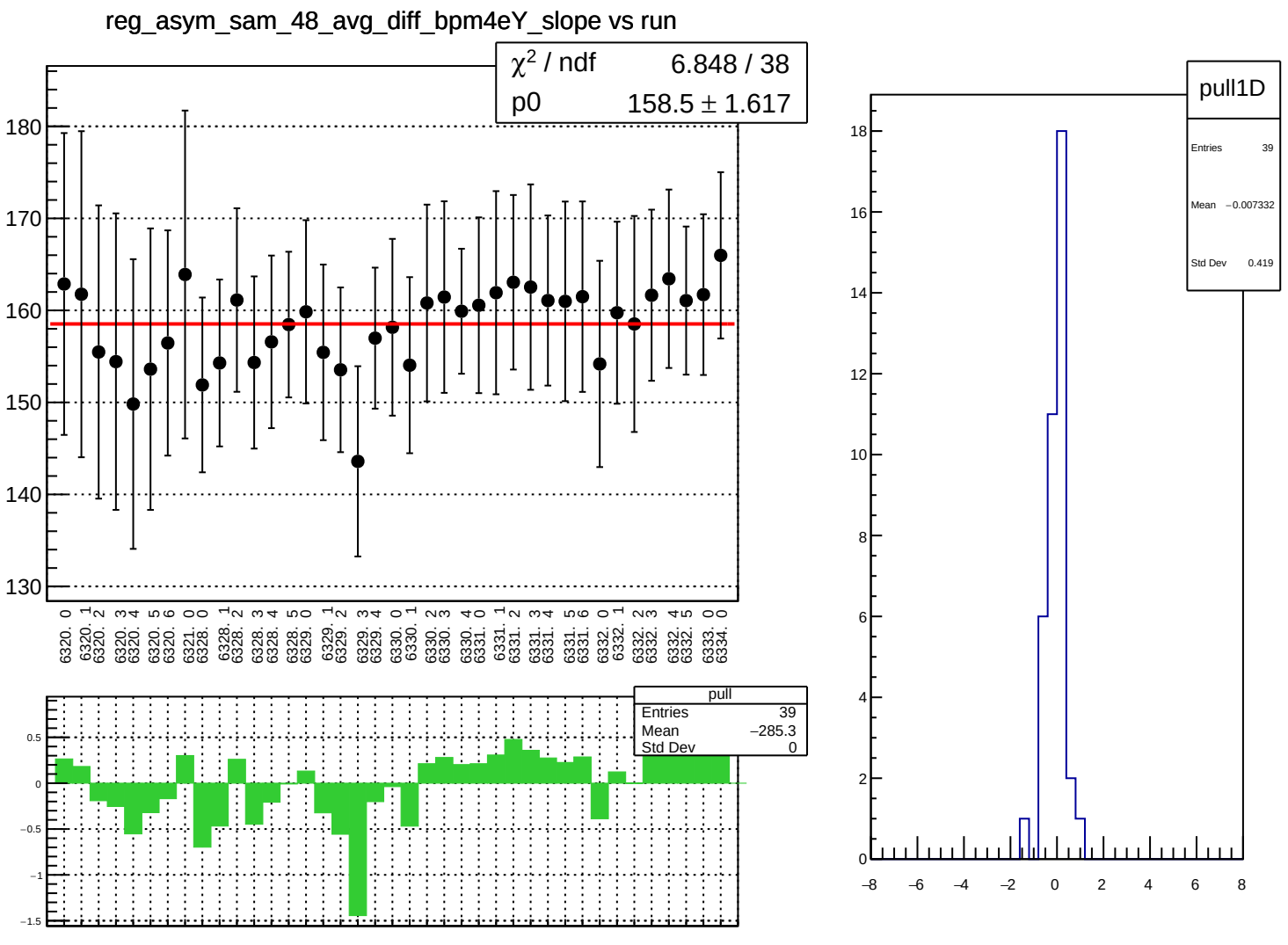

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.54 / 38
p0 0.6202 ± 0.1089
pull
Entries 39
Mean −0.5469
Std Dev 10.03

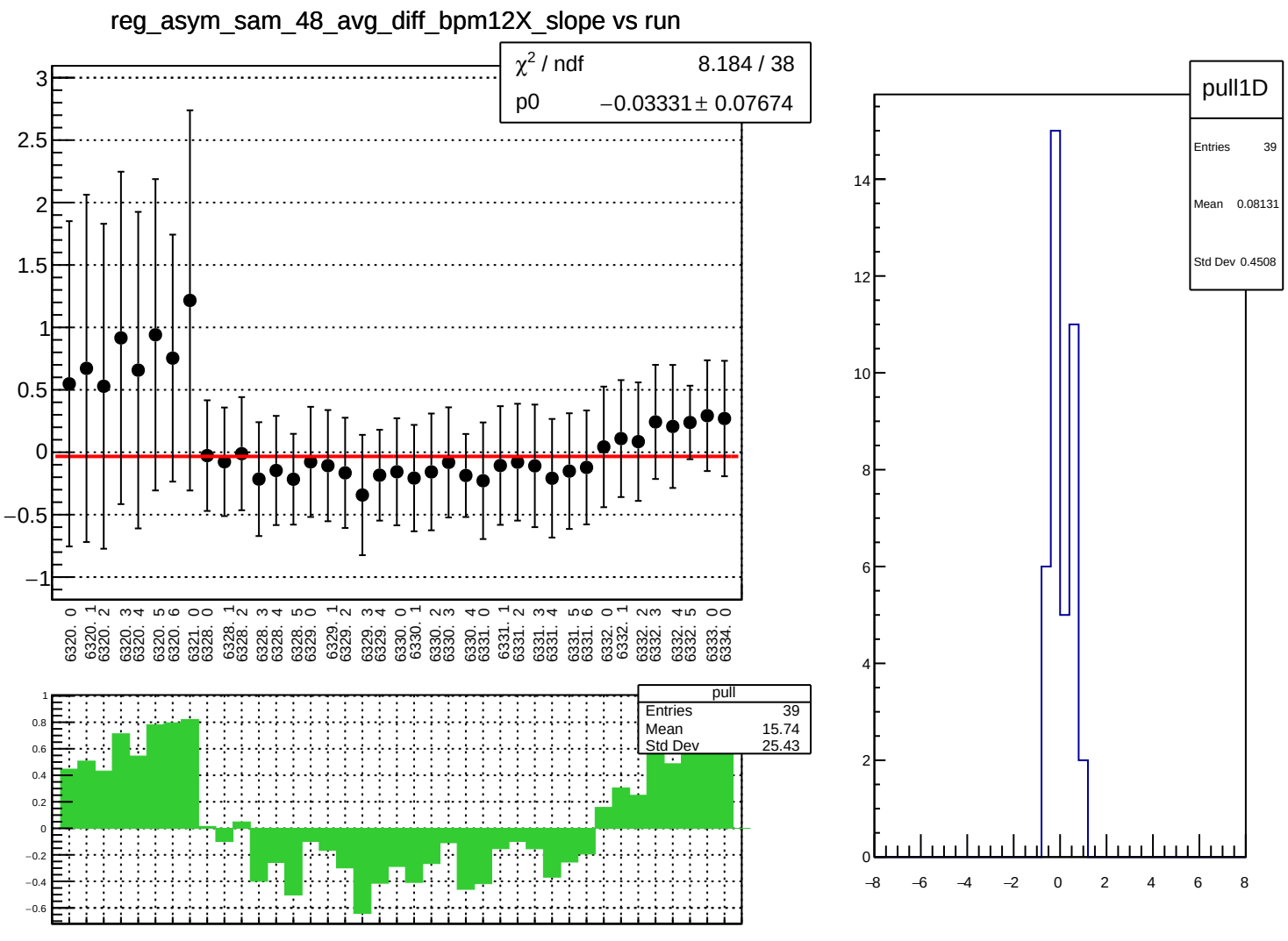

pull1D
Entries 39
Mean −0.1345
Std Dev 0.6168

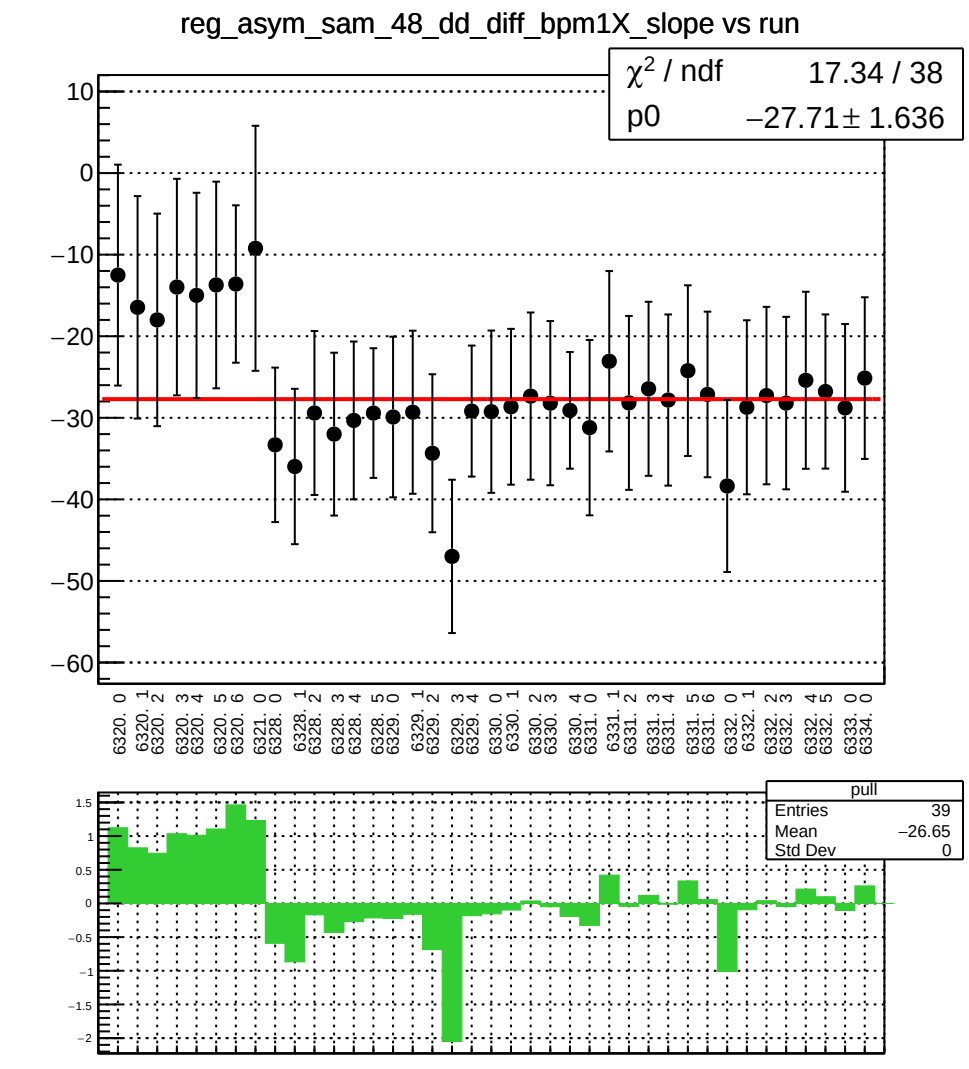

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 28.15 / 38
p0 −15.01 ± 2.036
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −16.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.08687
Std Dev 0.8451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

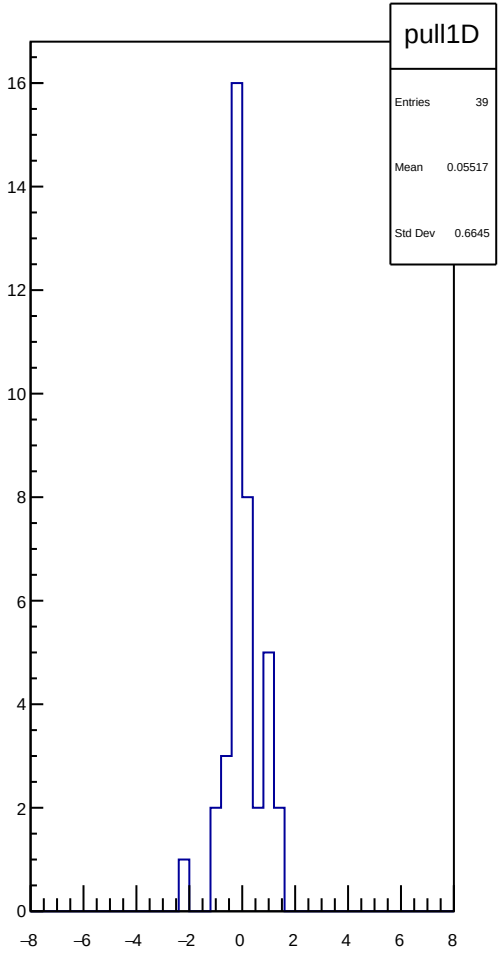

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.584 / 38
p0 −23.32 ± 1.491
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1783
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.0002557
Std Dev 0.3784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

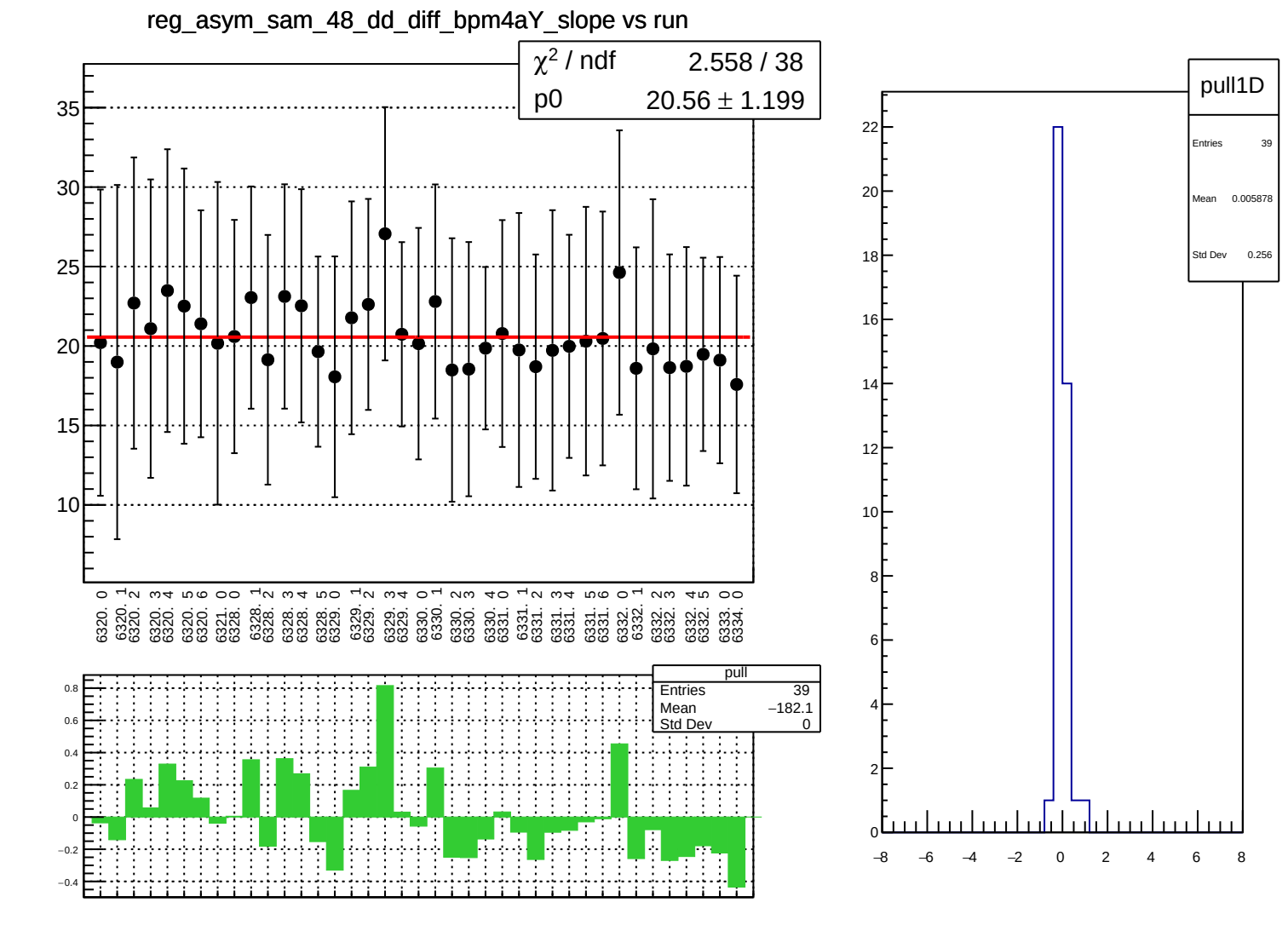

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.19 / 38
p0 −101.3 ± 2.139
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −12.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.07942
Std Dev 0.8312
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

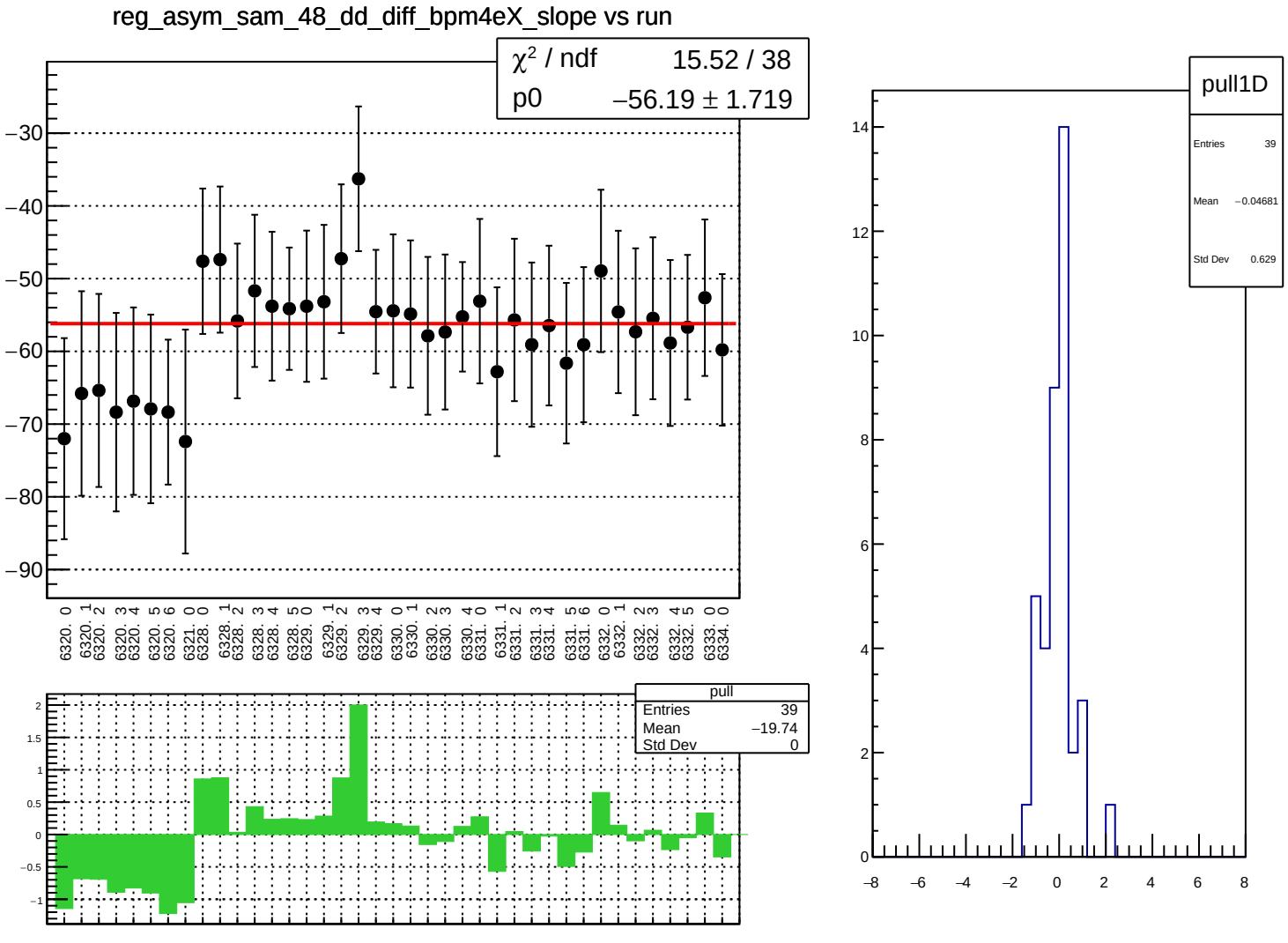

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.848 / 38
p0 158.5 ± 1.617
180
170
160
150
140
130
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −285.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.007332
Std Dev 0.419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

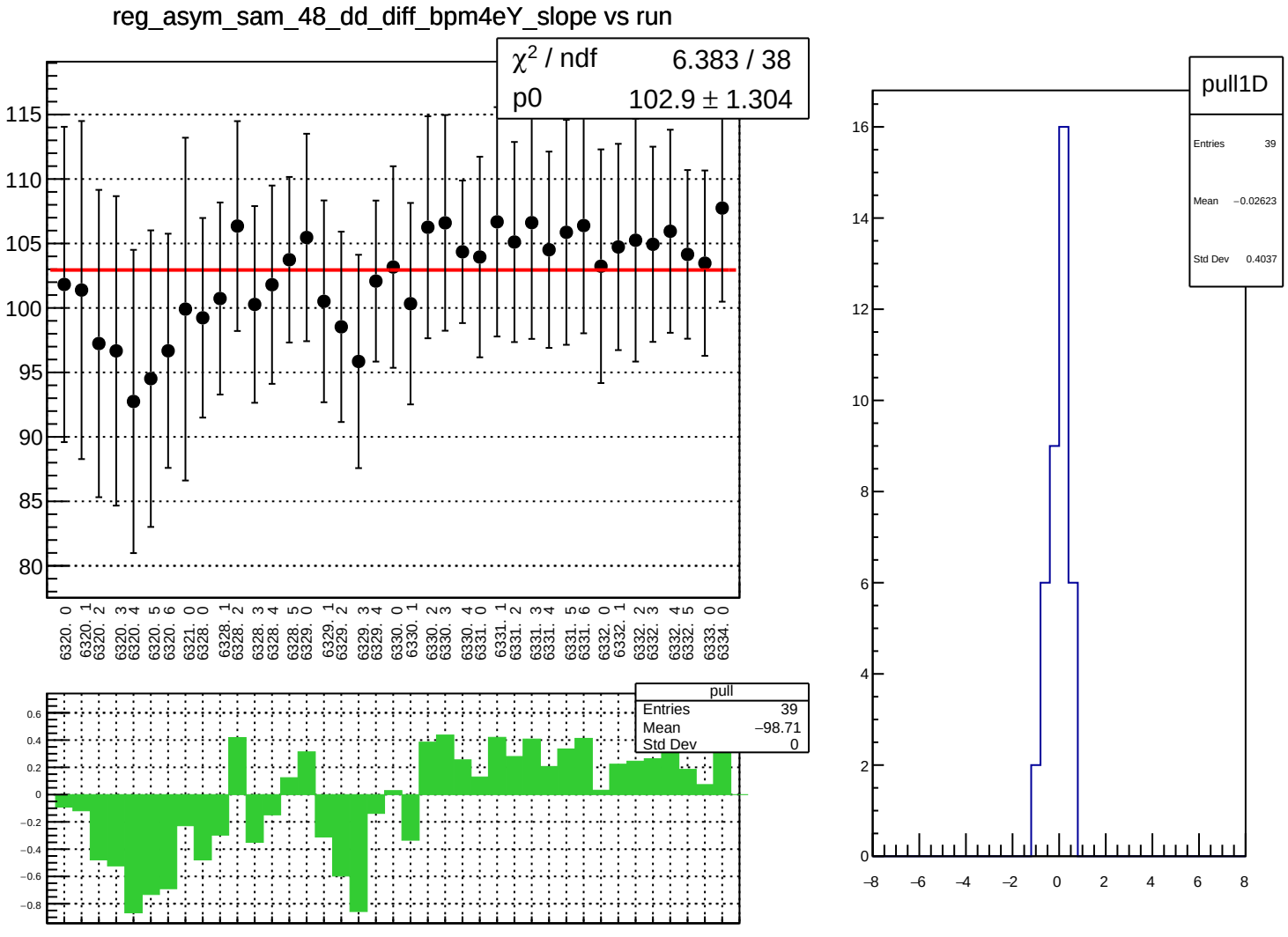

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.184 / 38
p0 −0.03331 ± 0.07674
pull
Entries 39
Mean 15.74
Std Dev 25.43
pull1D
Entries 39
Mean 0.08131
Std Dev 0.4508

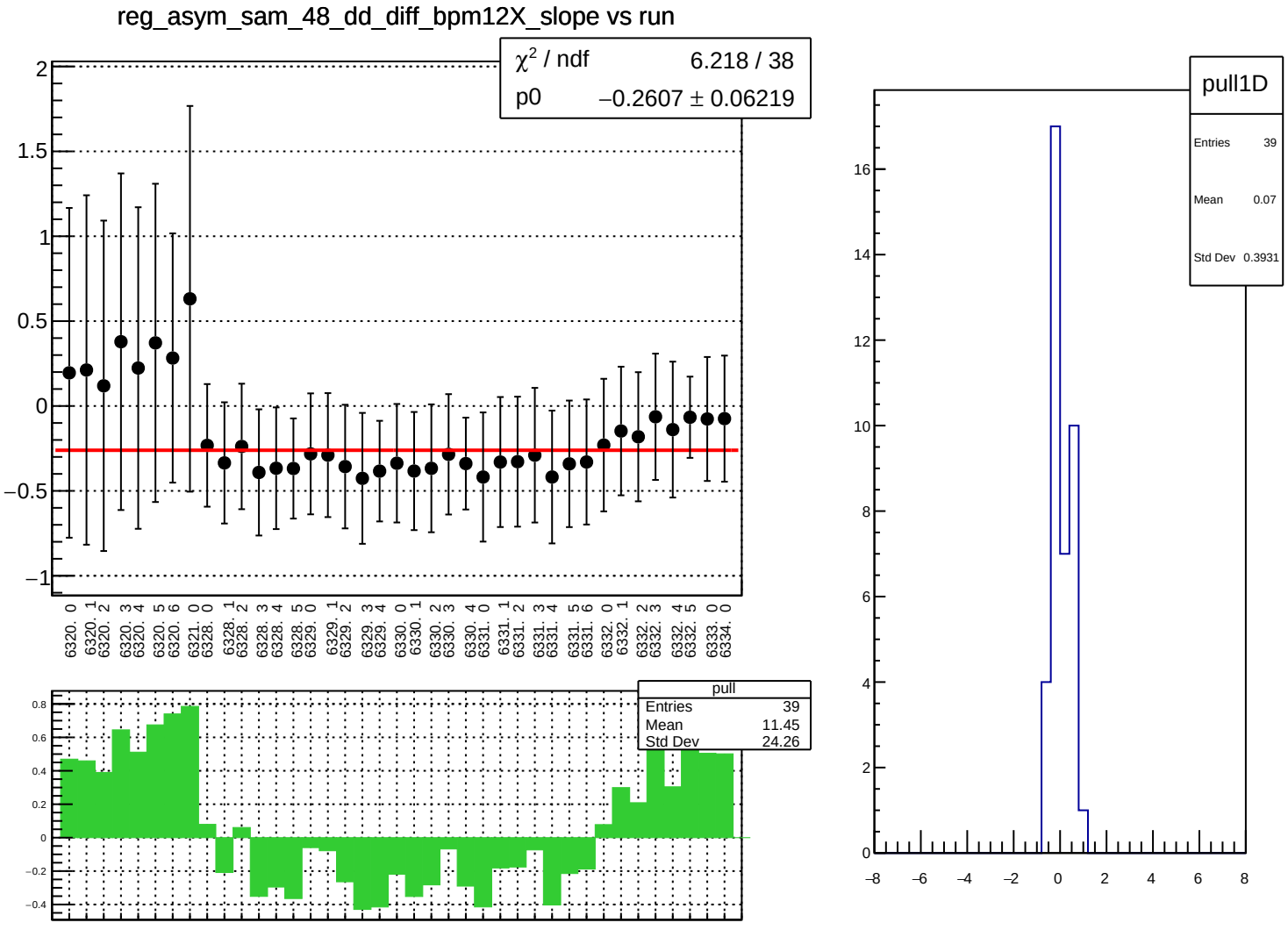

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 17.34 / 38
p0 −27.71± 1.636
pull
Entries 39
Mean −26.65
Std Dev 0

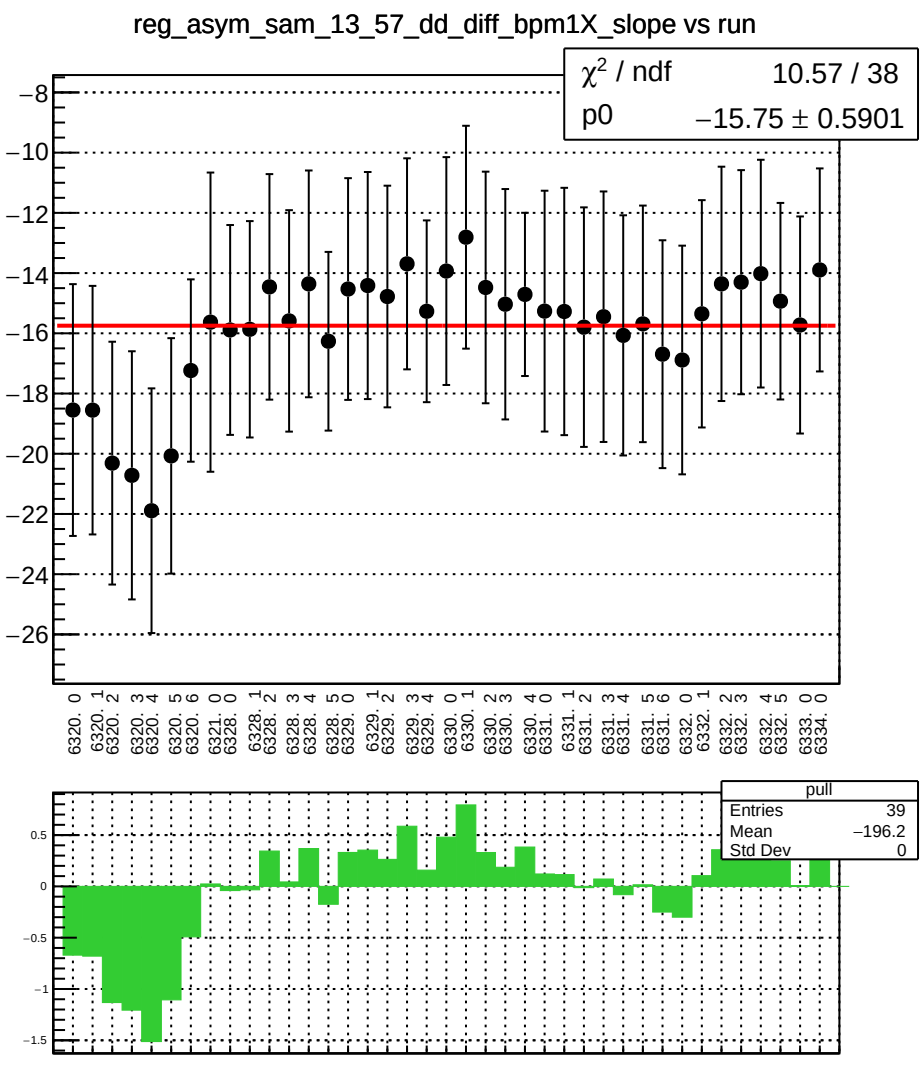

pull1D
Entries 39
Mean 0.05517
Std Dev 0.6645

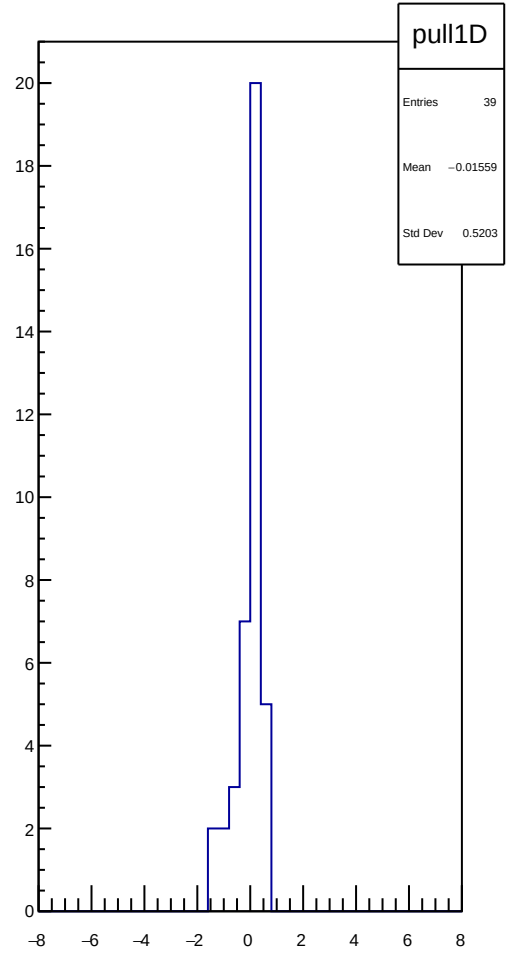

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.558 / 38
p0 20.56 ± 1.199
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −182.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.005878
Std Dev 0.256
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

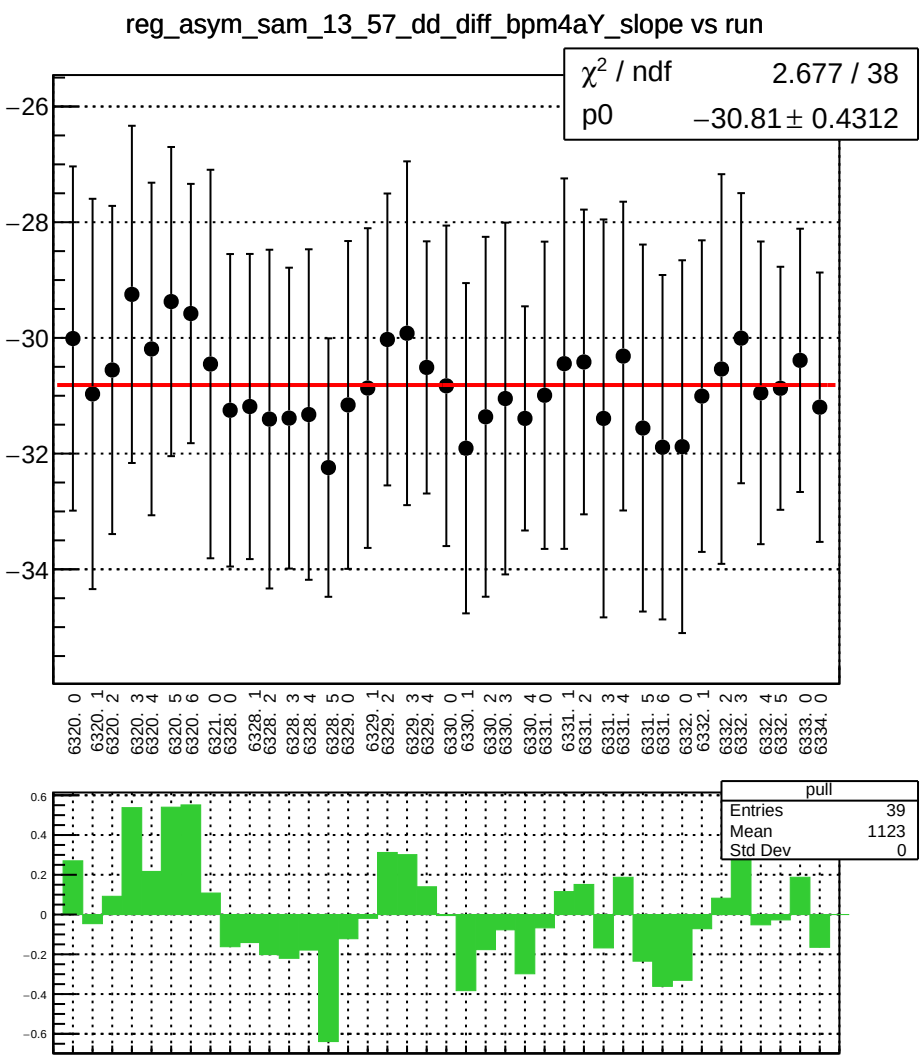

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.52 / 38
p0 −56.19 ± 1.719
pull
Entries 39
Mean −19.74
Std Dev 0
pull1D
Entries 39
Mean −0.04681
Std Dev 0.629

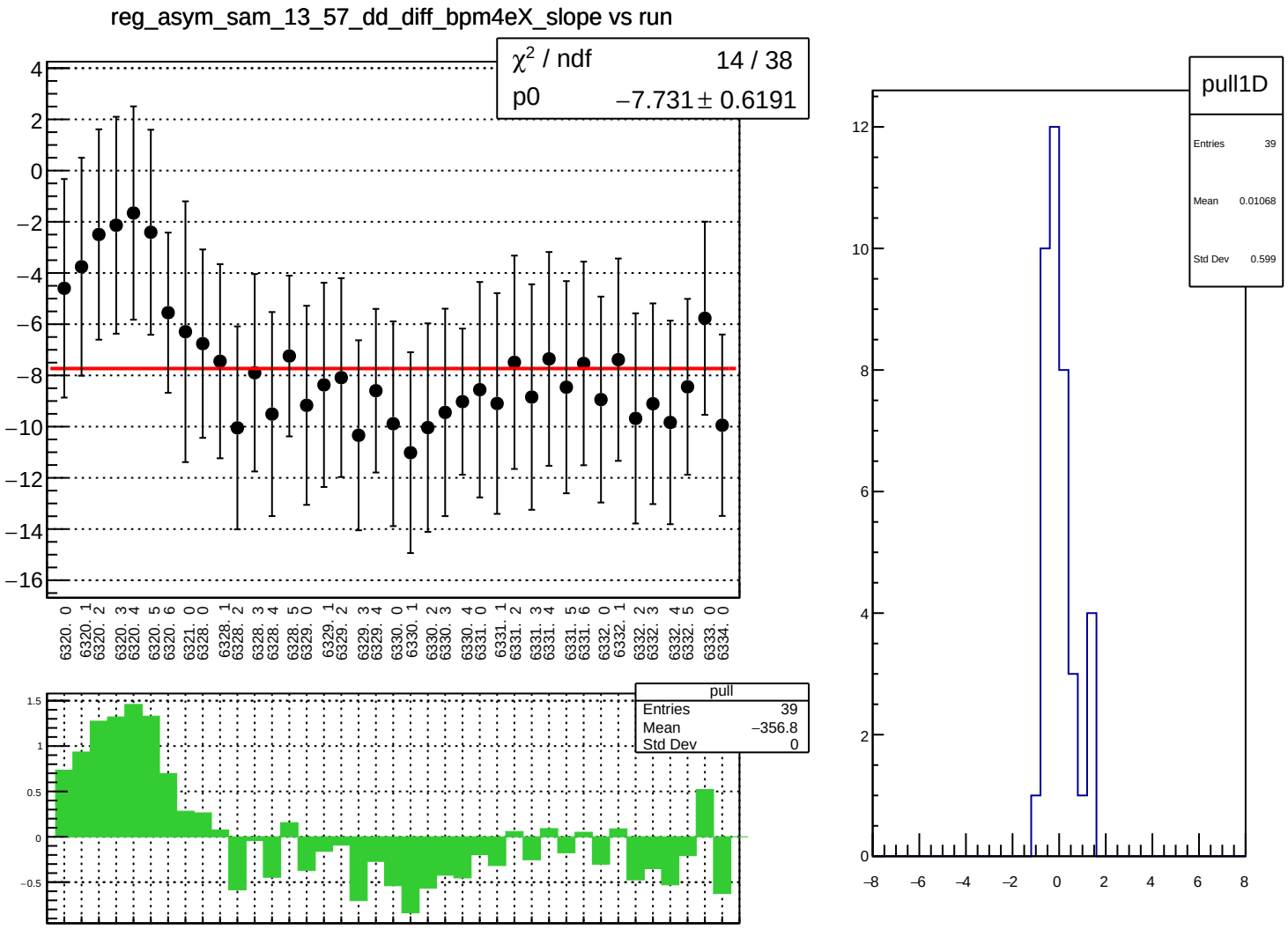

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.383 / 38
p0 102.9 ± 1.304
pull
Entries 39
Mean −98.71
Std Dev 0
pull1D
Entries 39
Mean −0.02623
Std Dev 0.4037

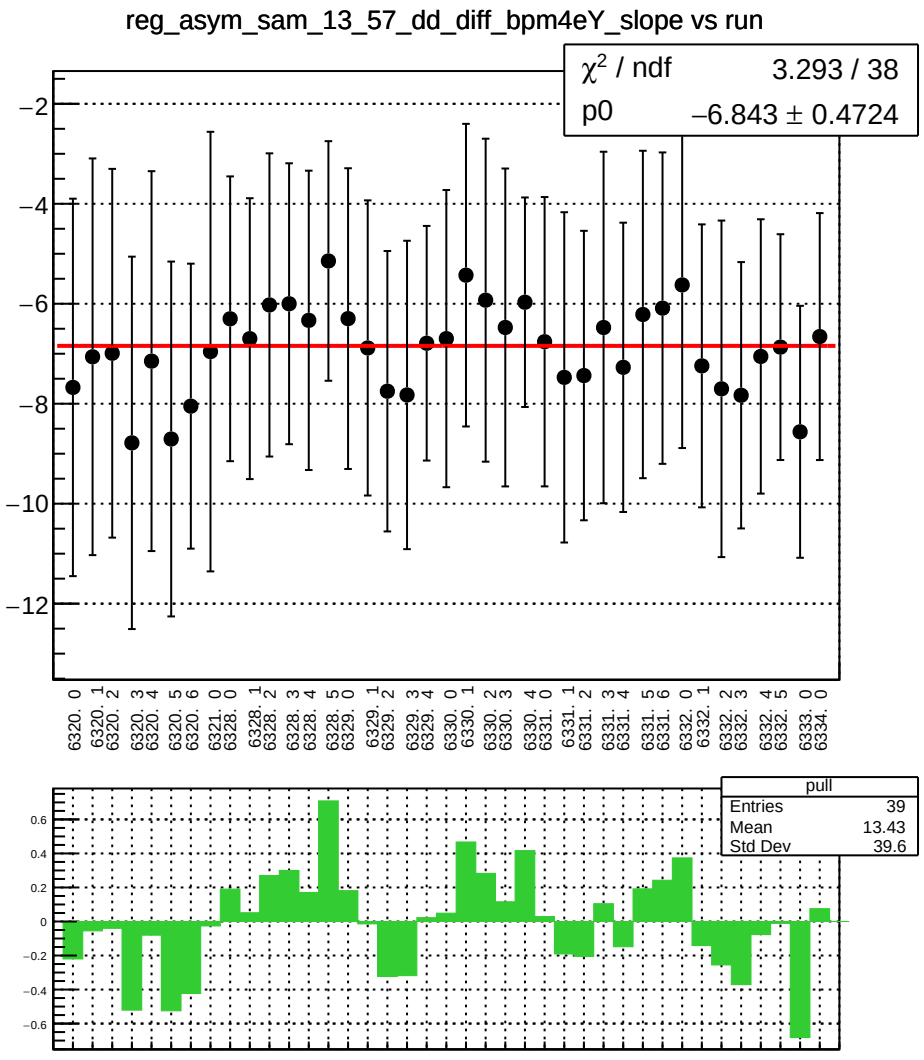

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.218 / 38
p0 −0.2607 ± 0.06219
pull
Entries 39
Mean 11.45
Std Dev 24.26
pull1D
Entries 39
Mean 0.07
Std Dev 0.3931

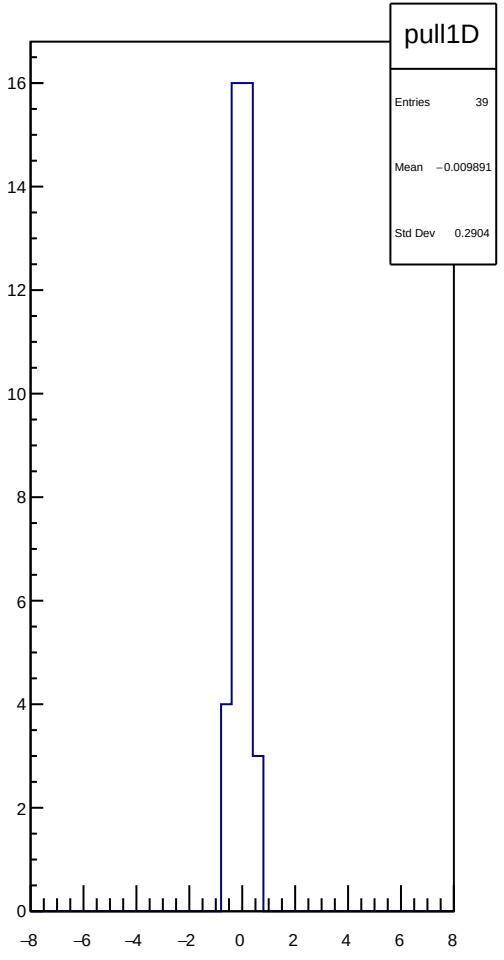

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 10.57 / 38
p0 −15.75 ± 0.5901
pull
Entries 39
Mean −196.2
Std Dev 0

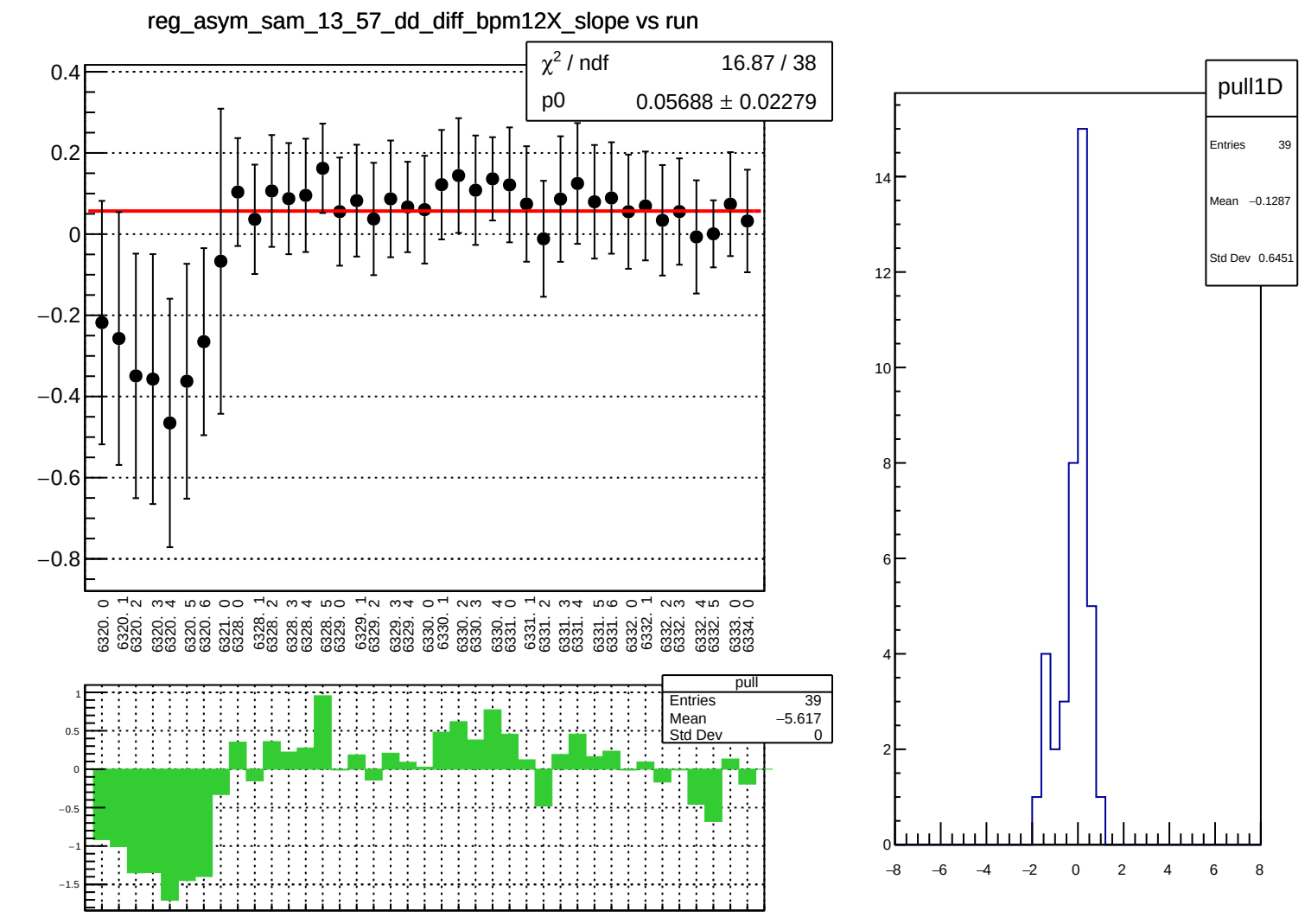

pull1D
Entries 39
Mean −0.01559
Std Dev 0.5203

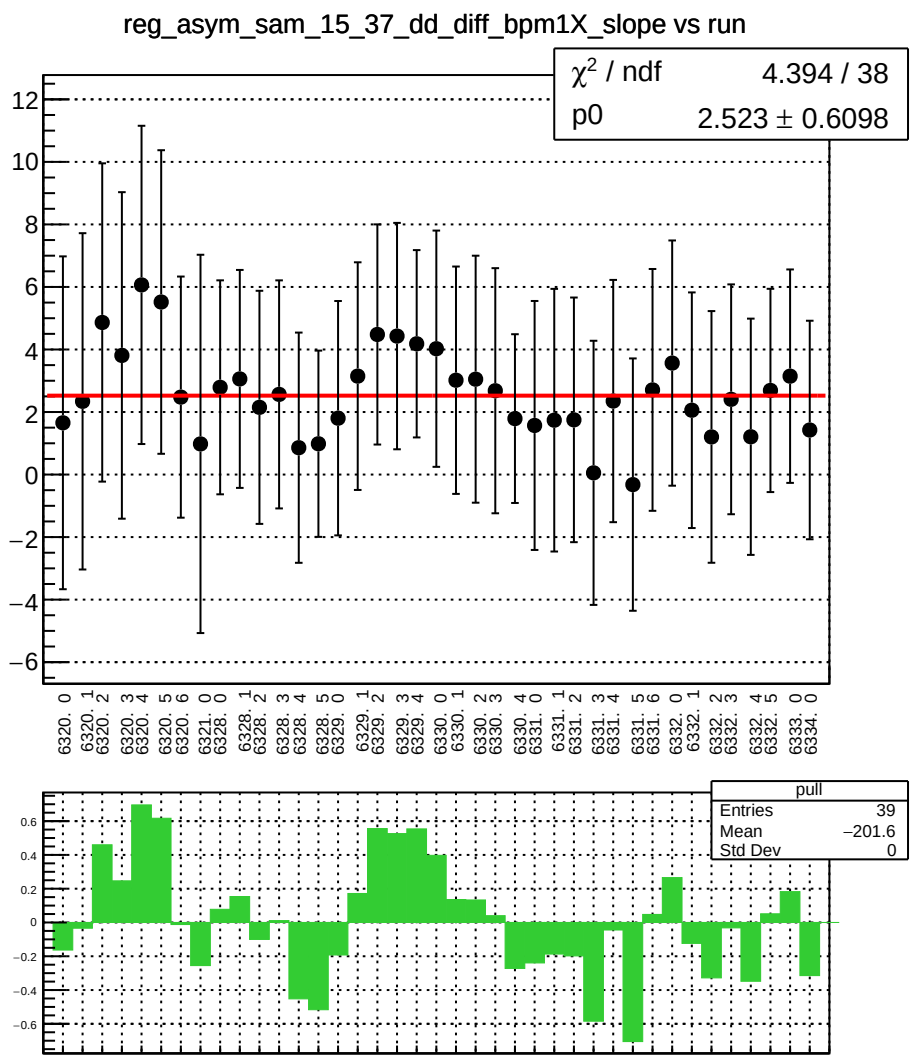

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.677 / 38
p0 −30.81 ± 0.4312
−26
−28
−30
−32
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1123
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.0006866
Std Dev 0.262
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

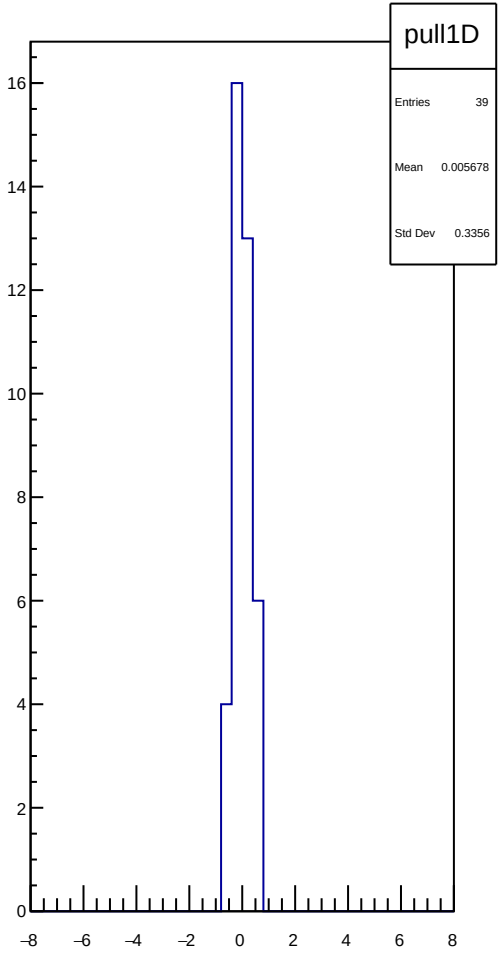

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 14 / 38
p0 −7.731 ± 0.6191
pull
Entries 39
Mean −356.8
Std Dev 0
pull1D
Entries 39
Mean 0.01068
Std Dev 0.599

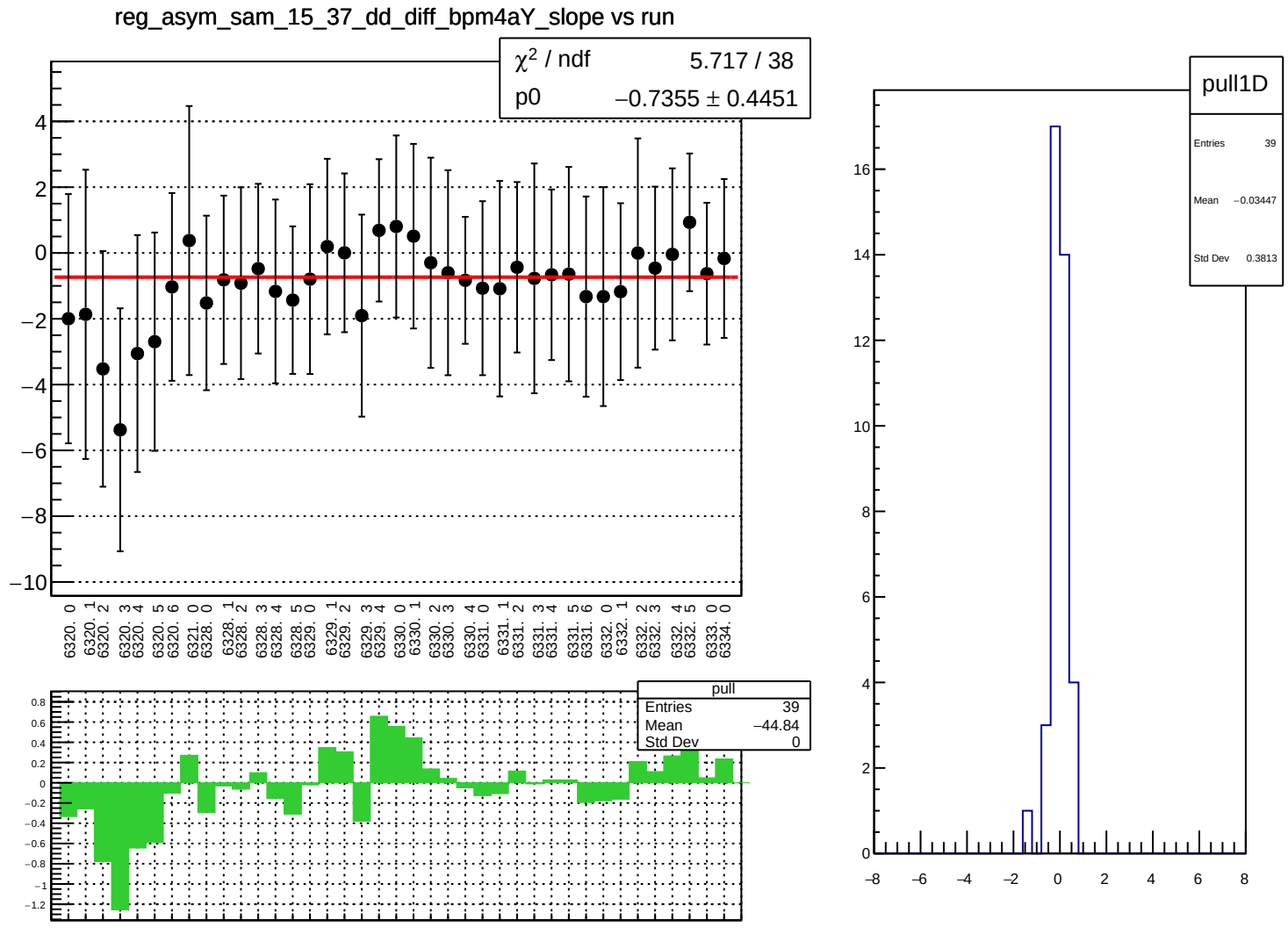

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.293 / 38
p0 −6.843 ± 0.4724
pull
Entries 39
Mean 13.43
Std Dev 39.6

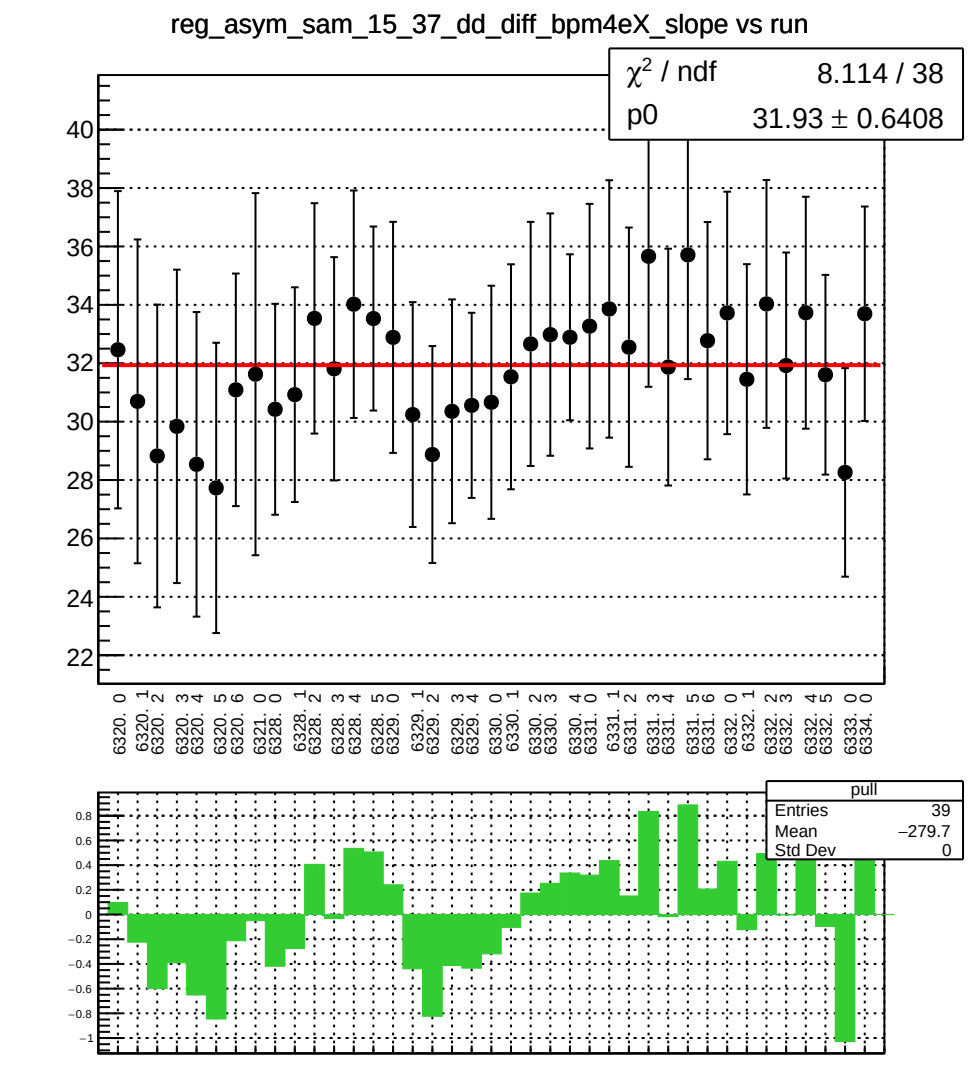

pull1D
Entries 39
Mean −0.009891
Std Dev 0.2904

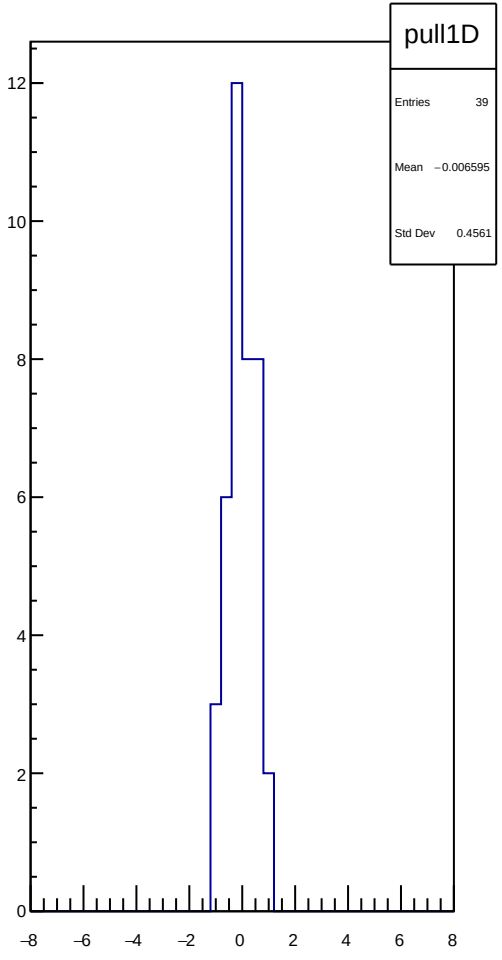

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 16.87 / 38
p0 0.05688 ± 0.02279
pull
Entries 39
Mean −5.617
Std Dev 0
pull1D
Entries 39
Mean −0.1287
Std Dev 0.6451

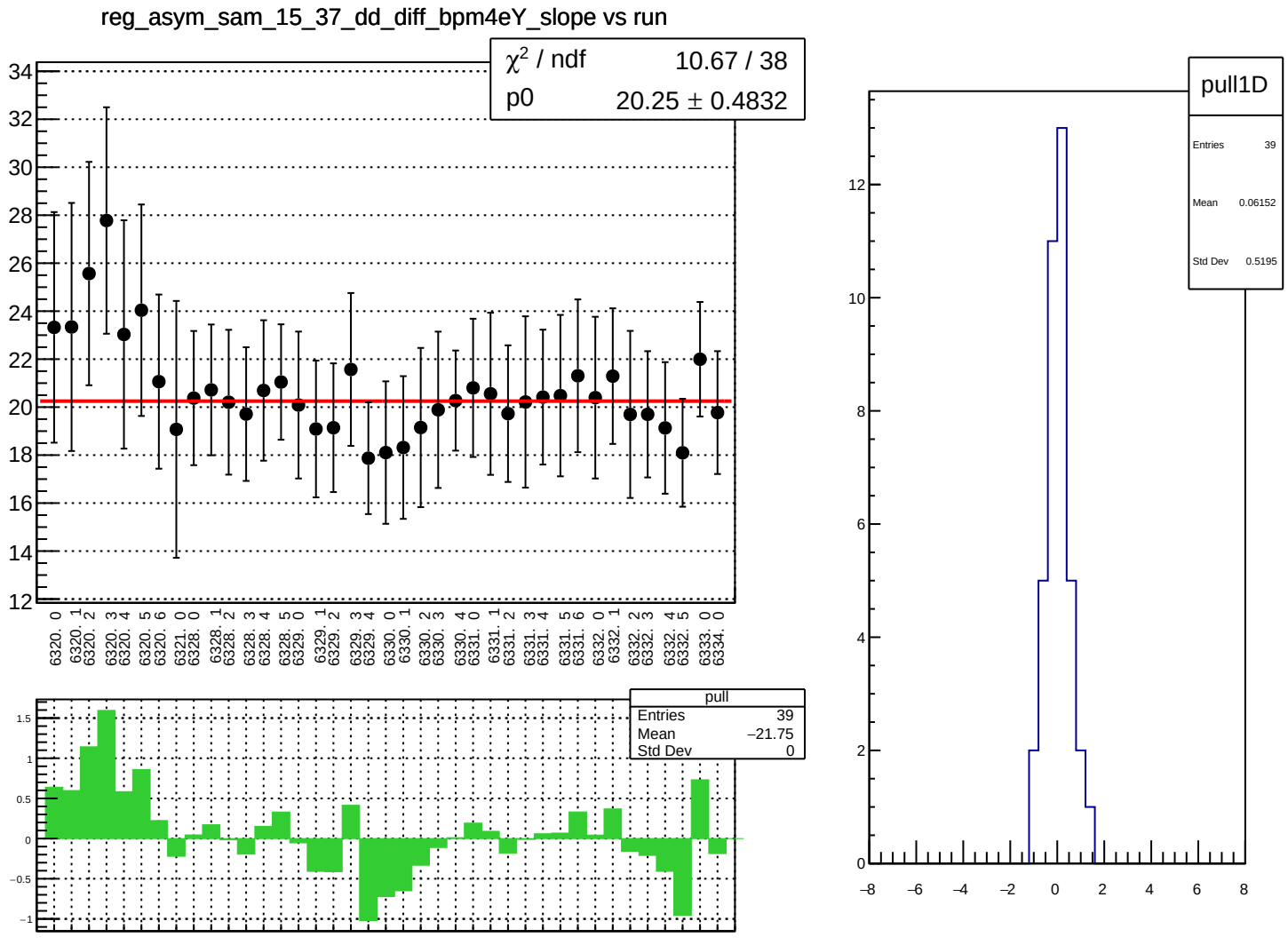

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.394 / 38
p0 2.523 ± 0.6098
pull
Entries 39
Mean −201.6
Std Dev 0

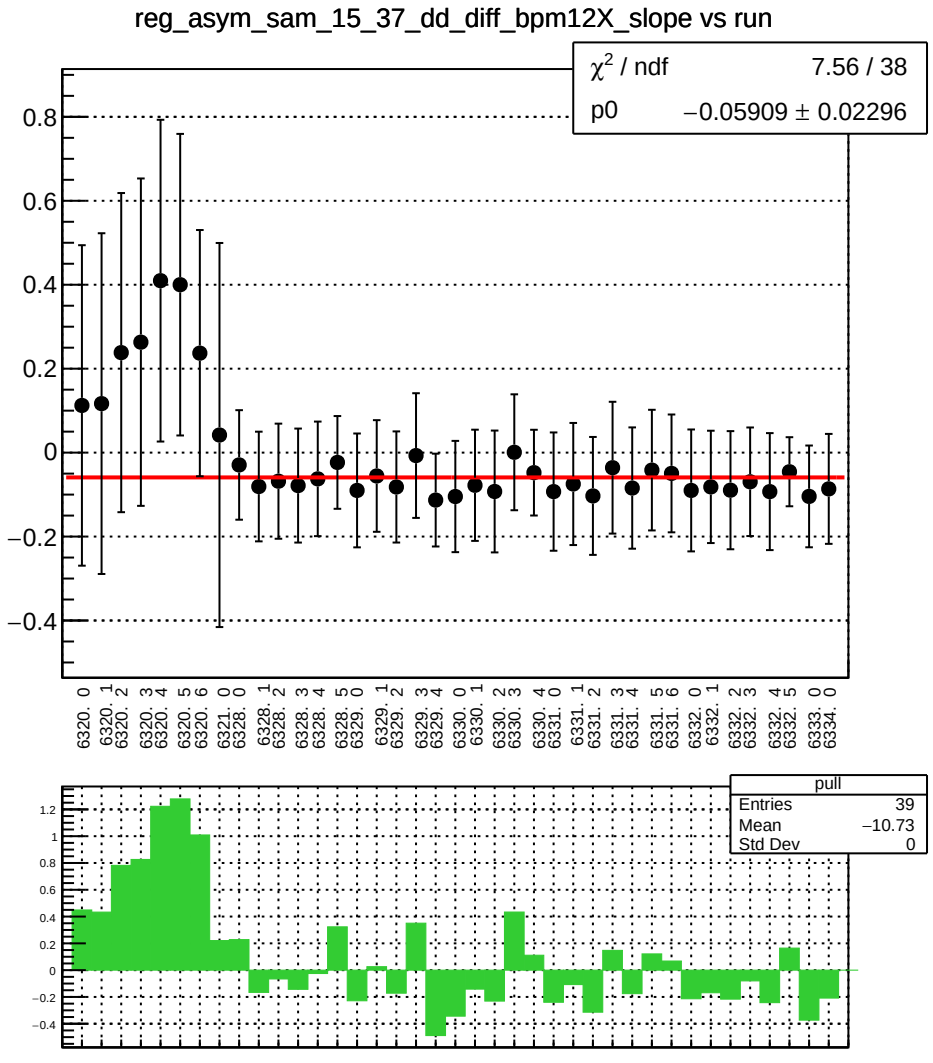

pull1D
Entries 39
Mean 0.005678
Std Dev 0.3356

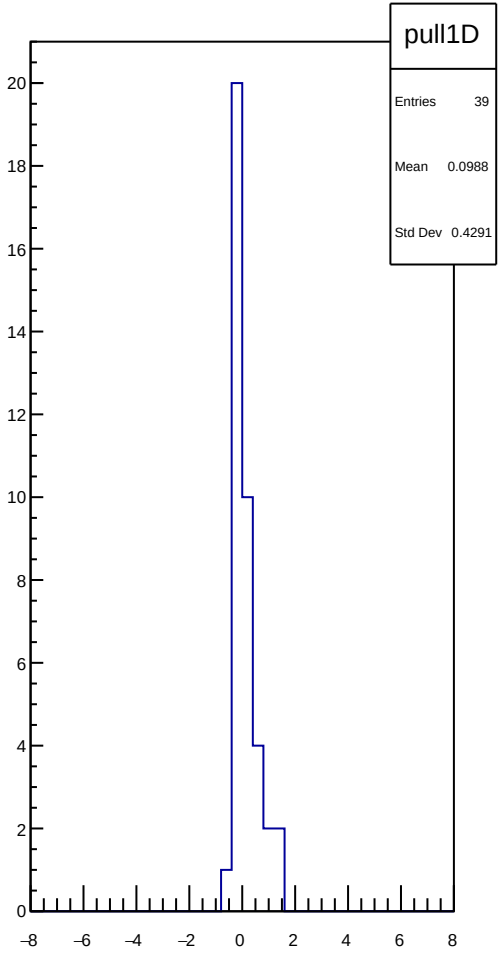

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.717 / 38
p0 −0.7355 ± 0.4451
pull
Entries 39
Mean −44.84
Std Dev 0
pull1D
Entries 39
Mean −0.03447
Std Dev 0.3813

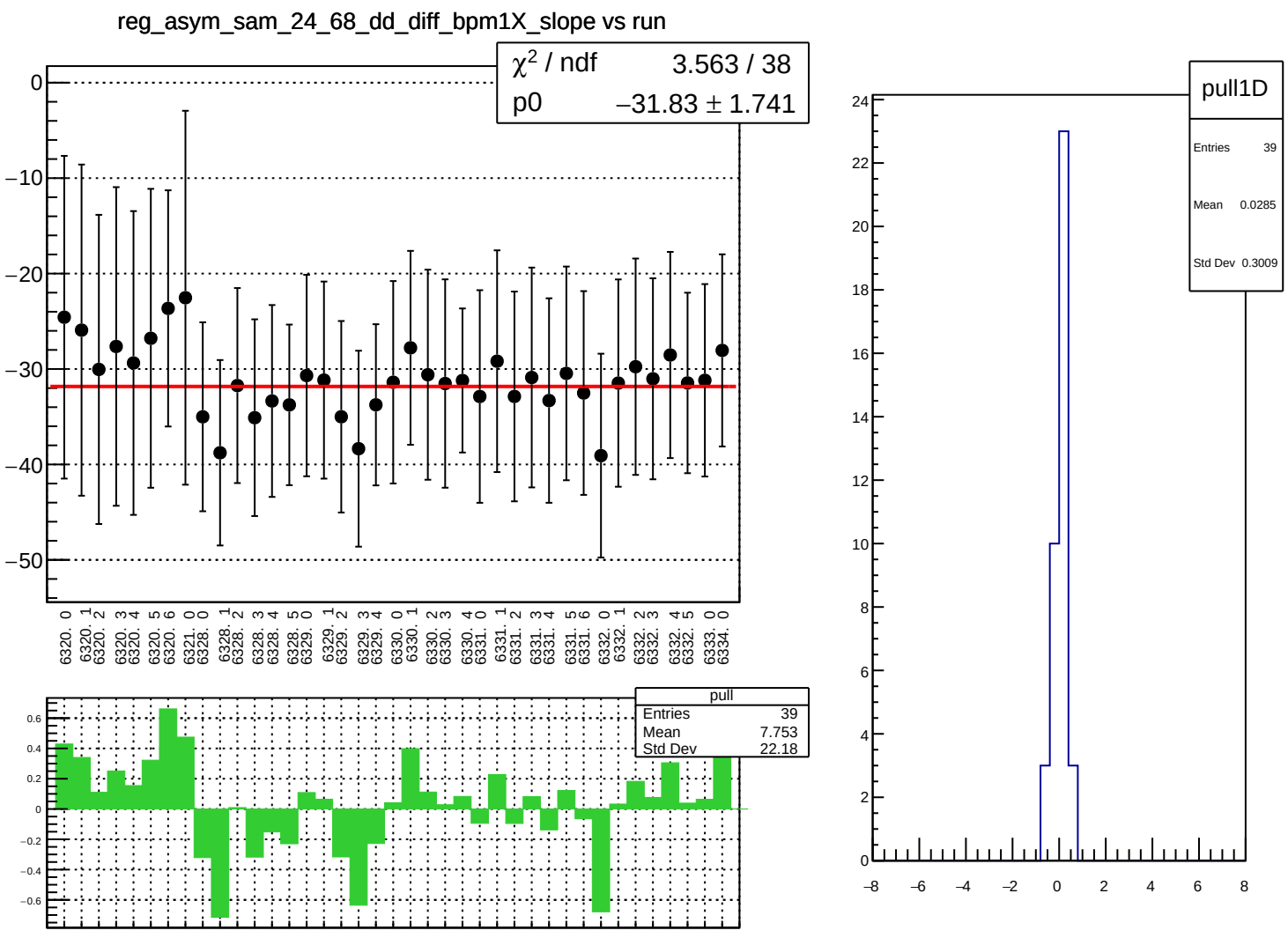

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.114 / 38
p0 31.93 ± 0.6408
40
38
36
34
32
30
28
26
24
22
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −279.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

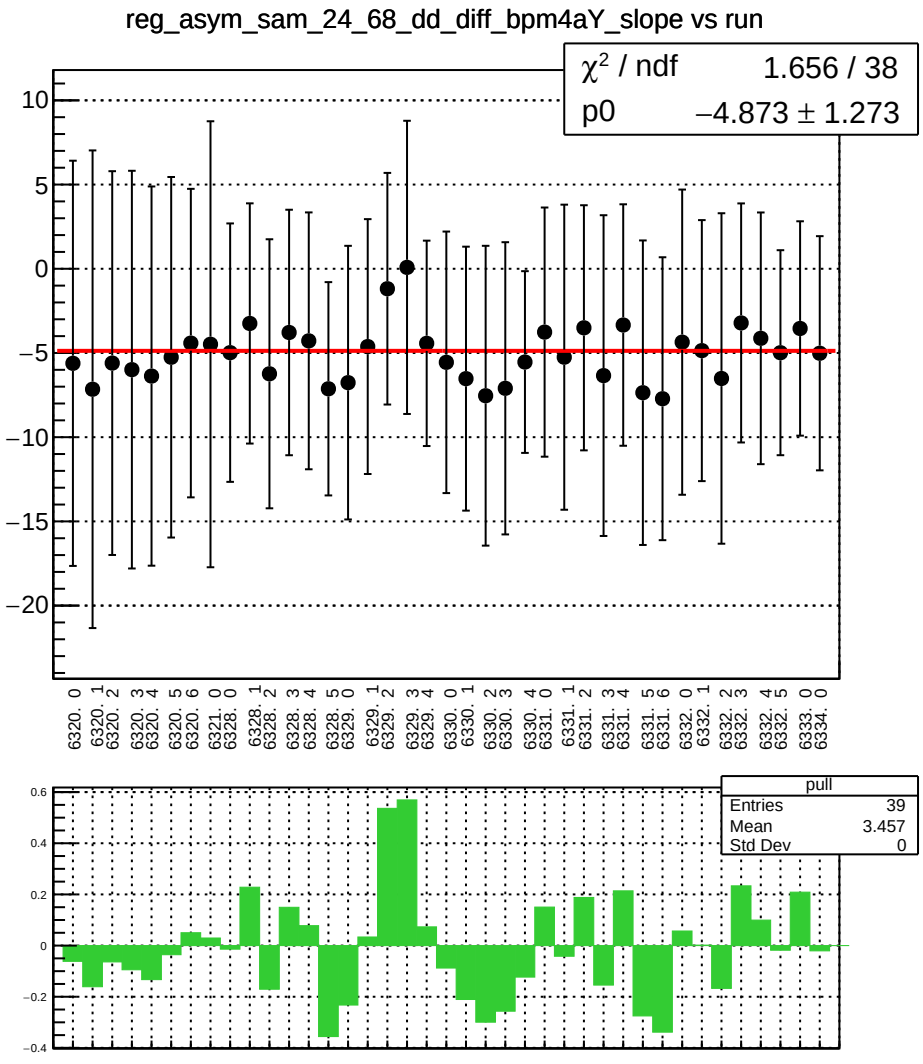

pull1D
Entries 39
Mean −0.006595
Std Dev 0.4561
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

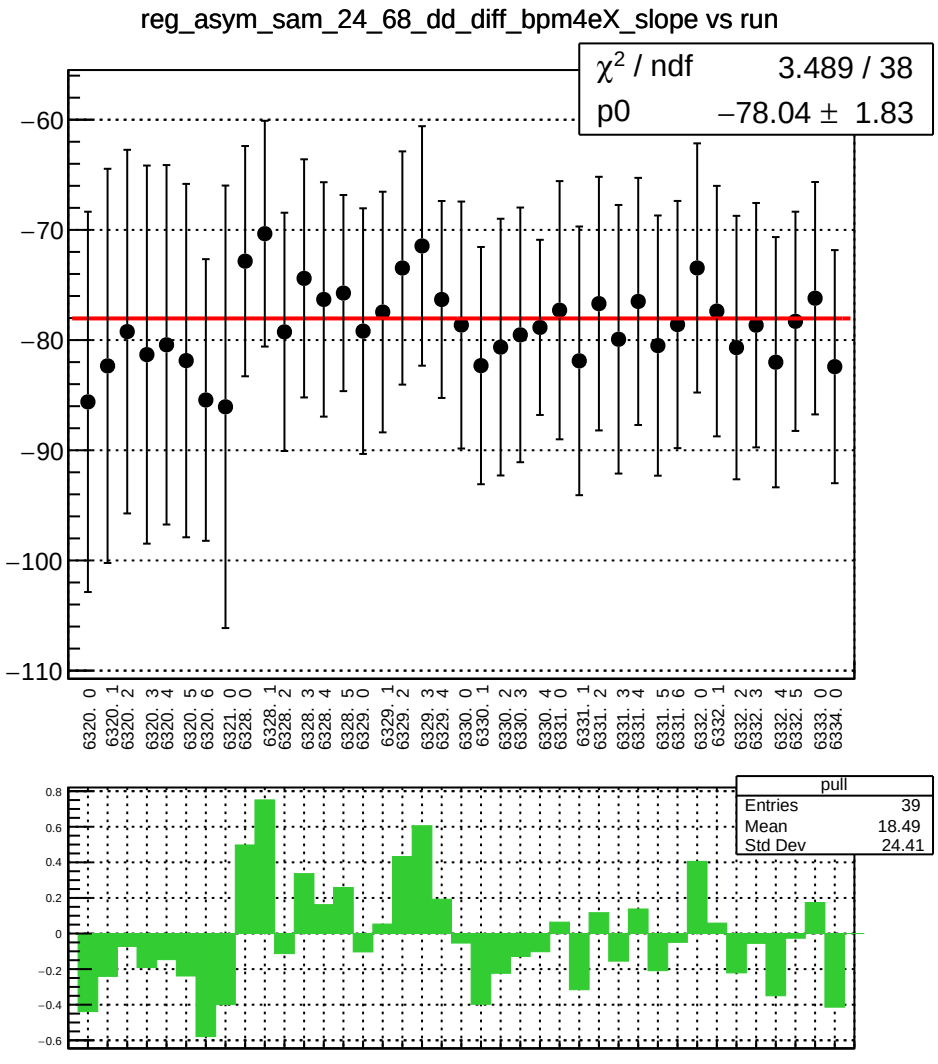

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.67 / 38
p0 20.25 ± 0.4832
pull
Entries 39
Mean −21.75
Std Dev 0
pull1D
Entries 39
Mean 0.06152
Std Dev 0.5195

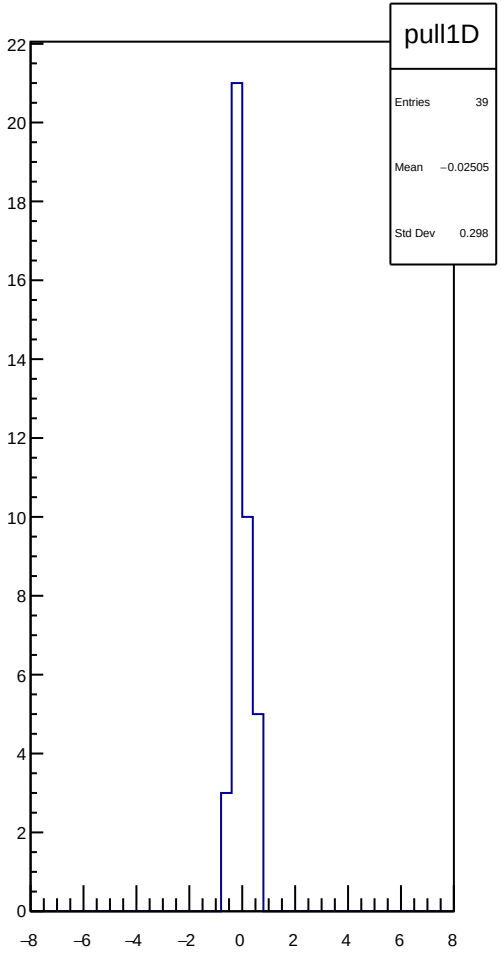

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.56 / 38
p0 −0.05909 ± 0.02296
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.73
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

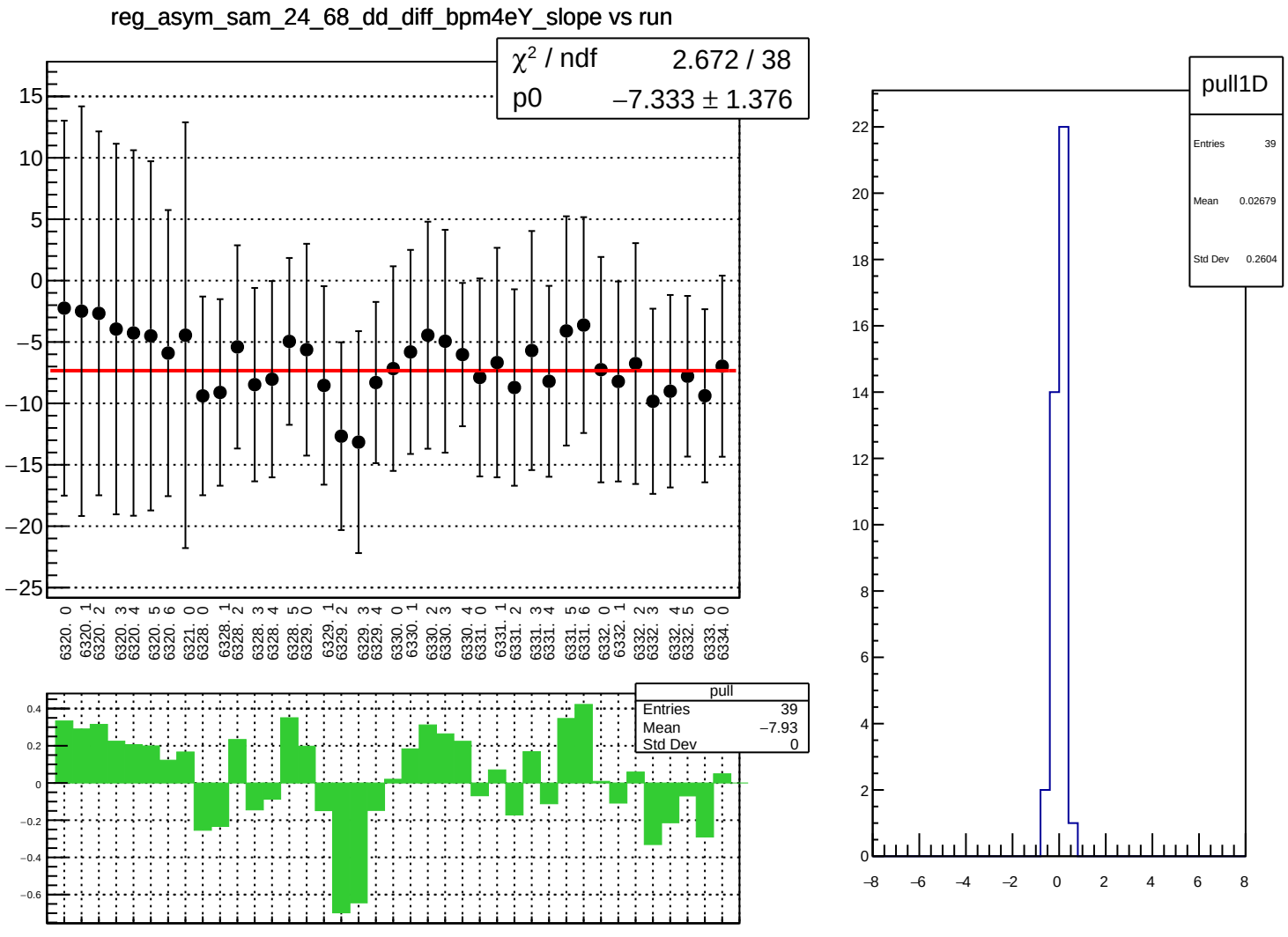

pull1D
Entries 39
Mean 0.0988
Std Dev 0.4291
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

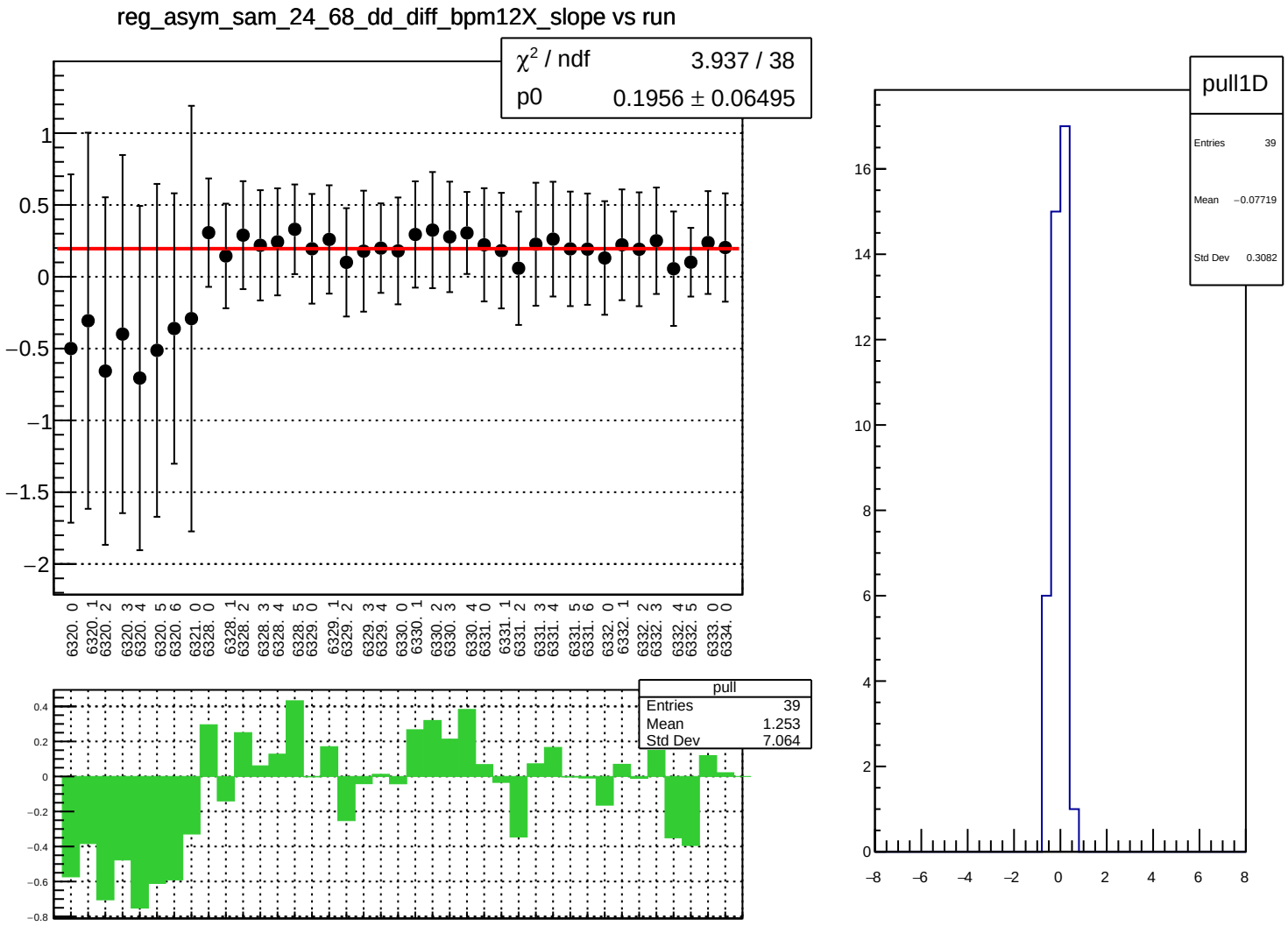

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.563 / 38
p0 −31.83 ± 1.741
pull
Entries 39
Mean 7.753
Std Dev 22.18
pull1D
Entries 39
Mean 0.0285
Std Dev 0.3009

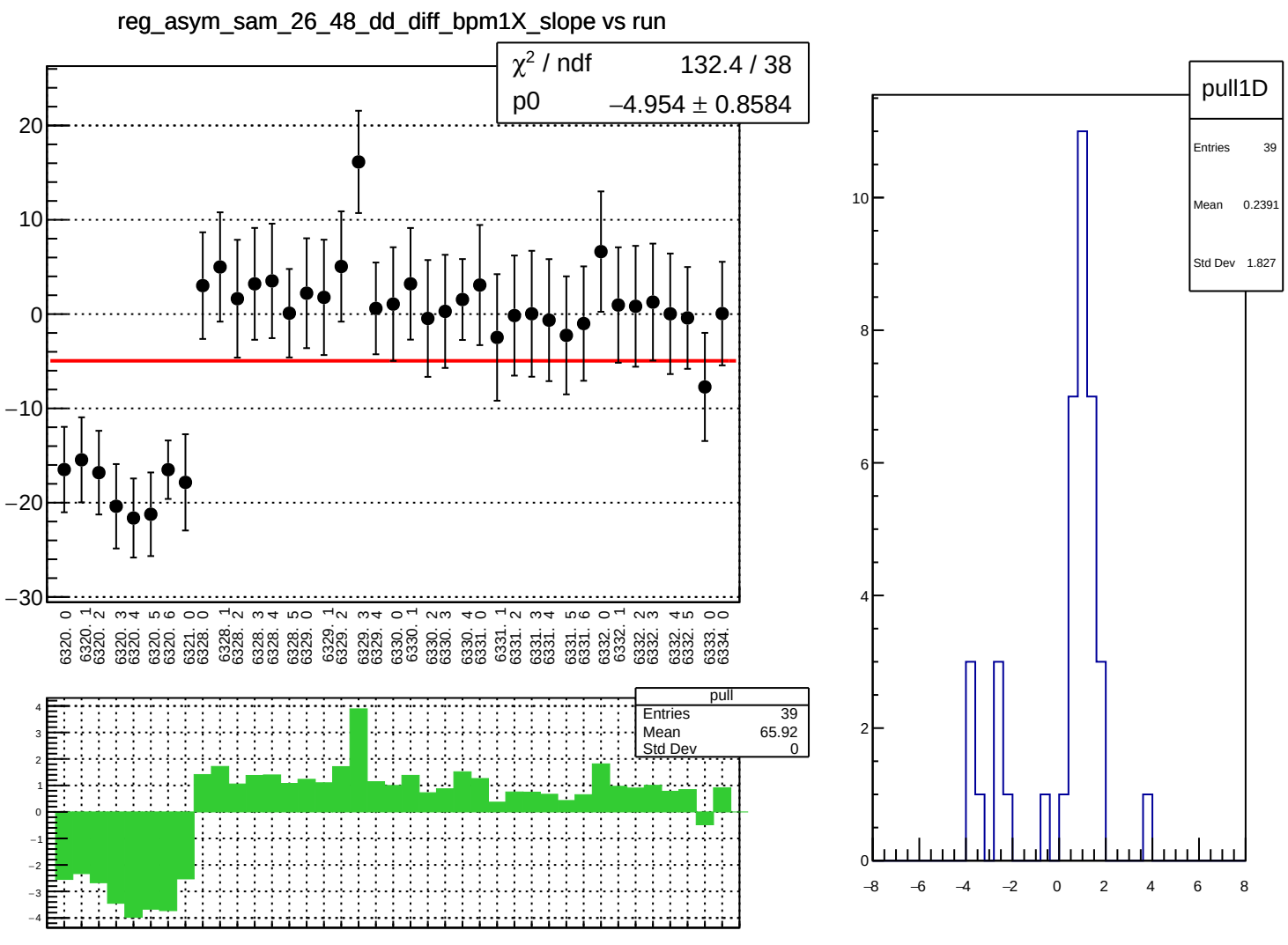

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.656 / 38
p0 −4.873 ± 1.273
pull
Entries 39
Mean 3.457
Std Dev 0
pull1D
Entries 39
Mean −0.01061
Std Dev 0.2058

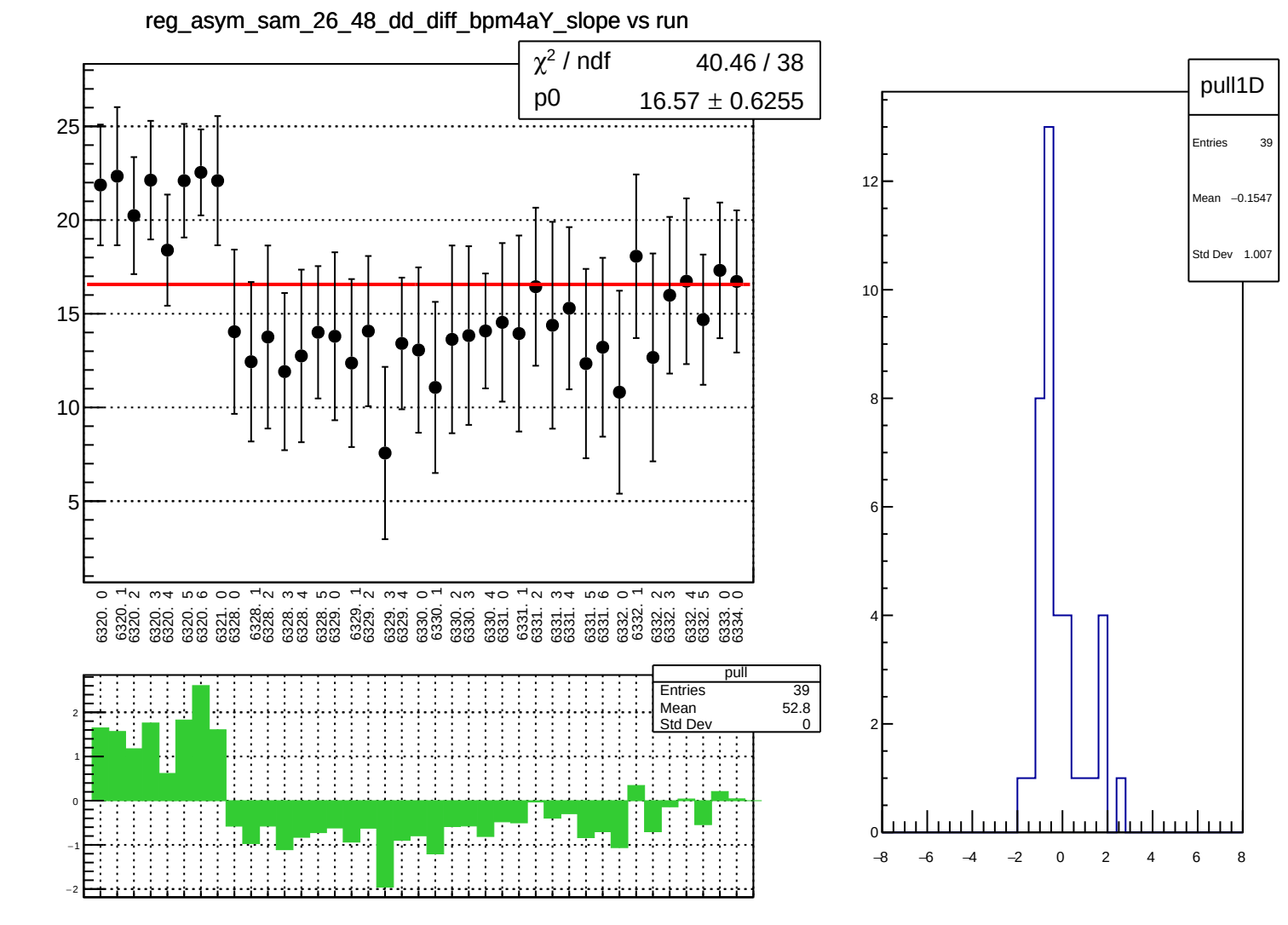

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.489 / 38
p0 −78.04 ± 1.83
pull
Entries 39
Mean 18.49
Std Dev 24.41

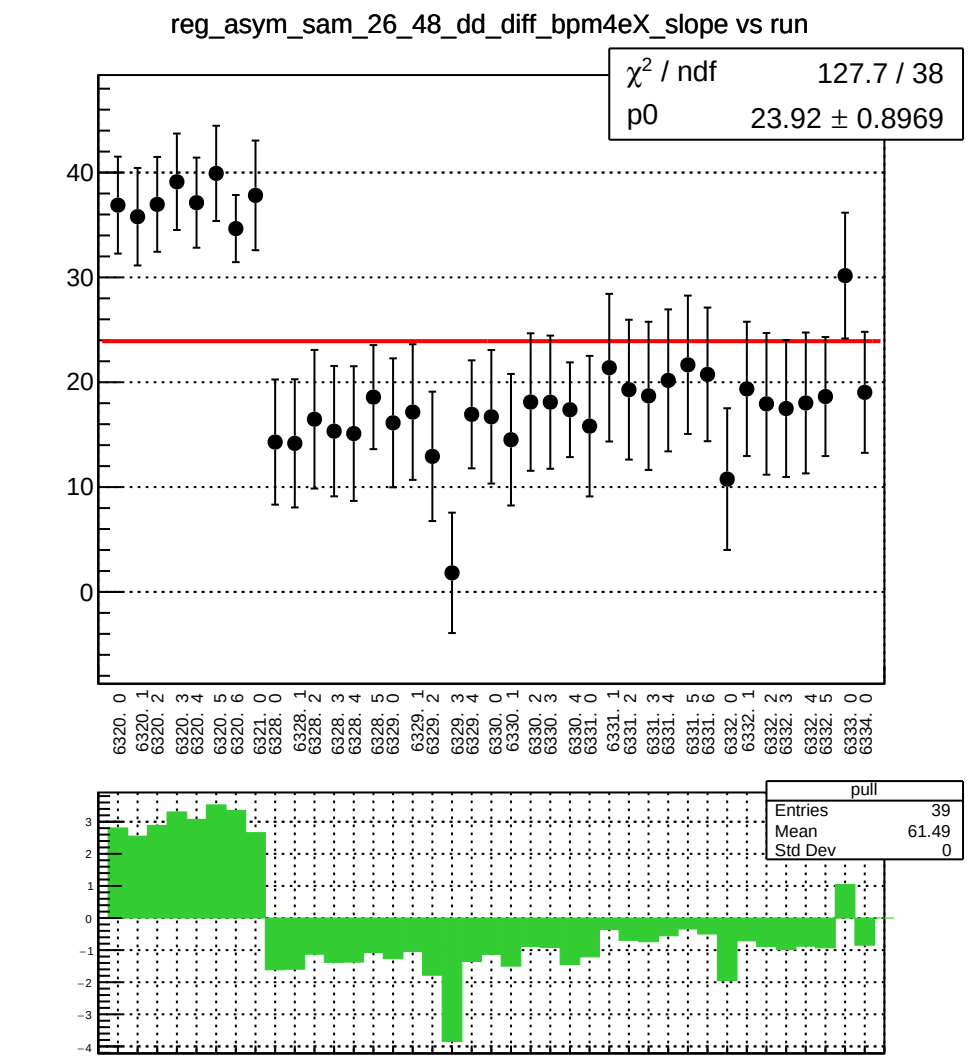

pull1D
Entries 39
Mean −0.02505
Std Dev 0.298

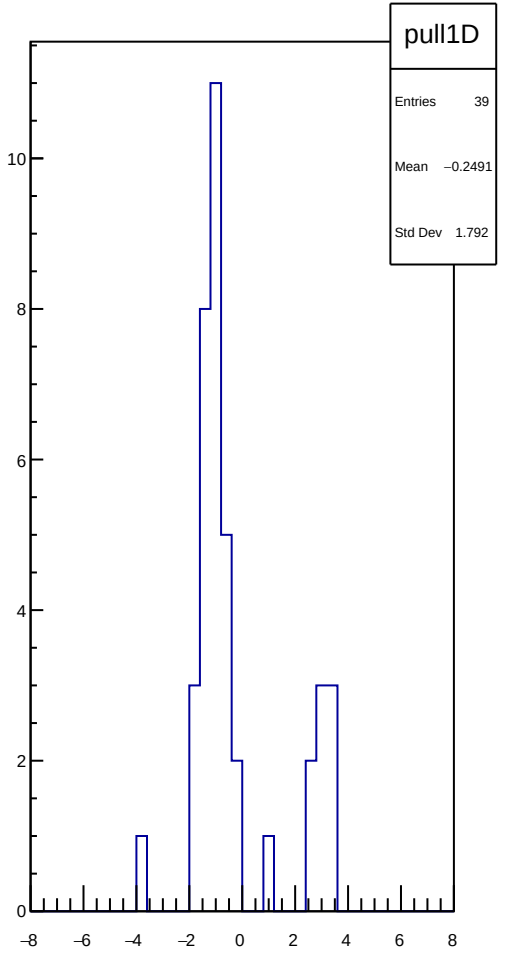

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.672 / 38
p0 −7.333 ± 1.376
15
10
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.93
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.02679
Std Dev 0.2604
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

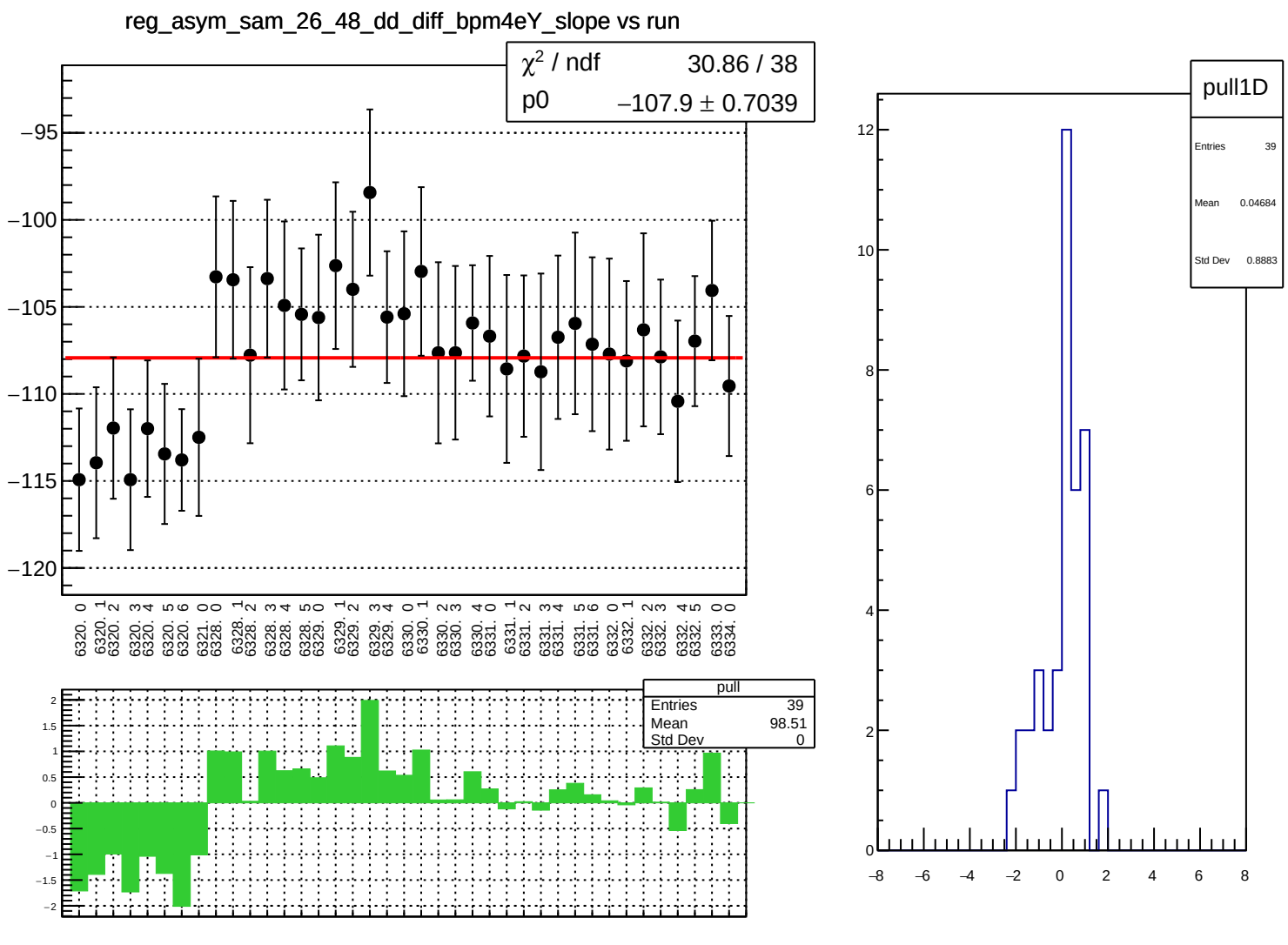

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.937 / 38
p0 0.1956 ± 0.06495
pull
Entries 39
Mean 1.253
Std Dev 7.064
pull1D
Entries 39
Mean −0.07719
Std Dev 0.3082

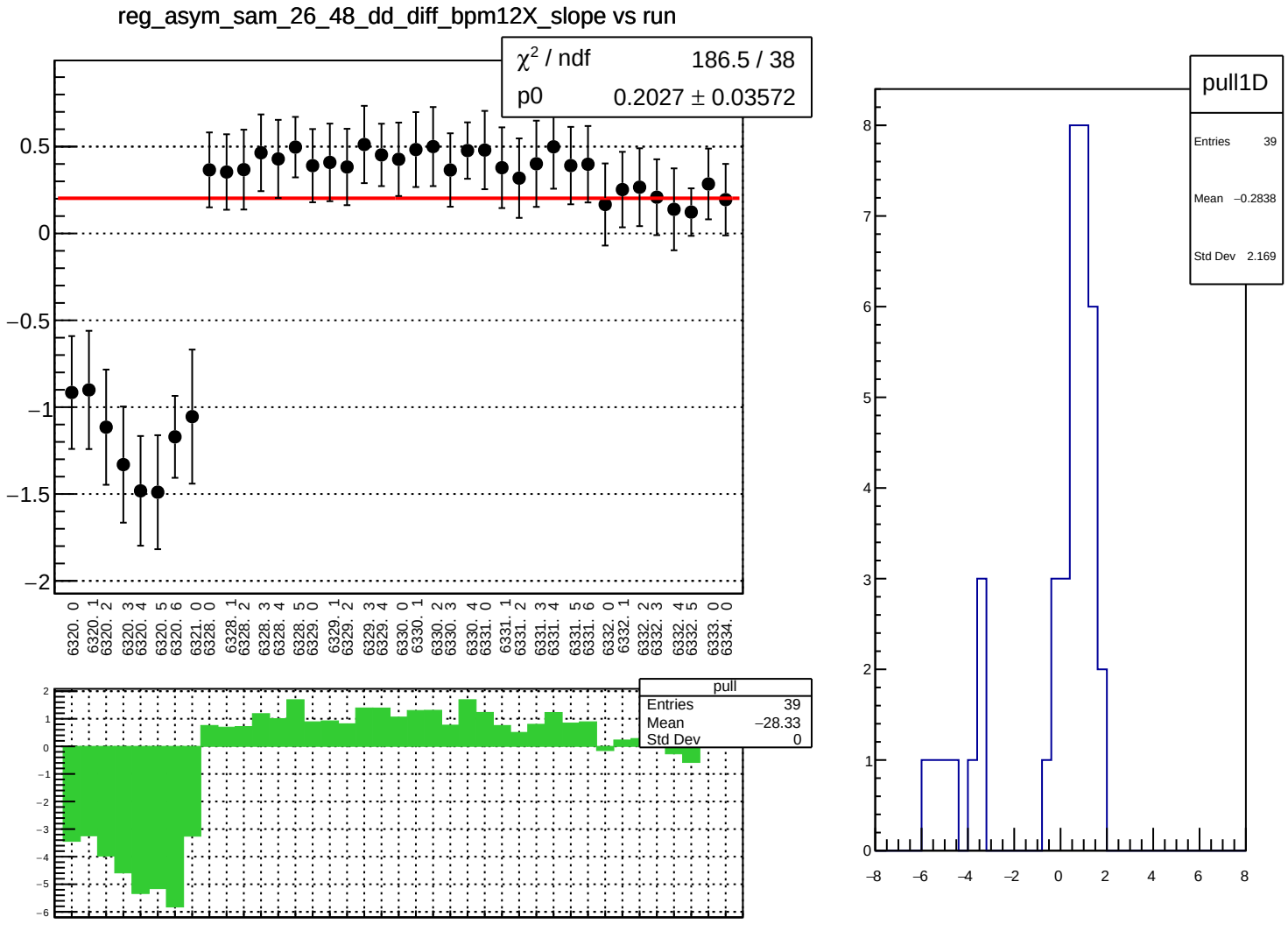

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 132.4 / 38
p0 −4.954 ± 0.8584
pull
Entries 39
Mean 65.92
Std Dev 0
pull1D
Entries 39
Mean 0.2391
Std Dev 1.827

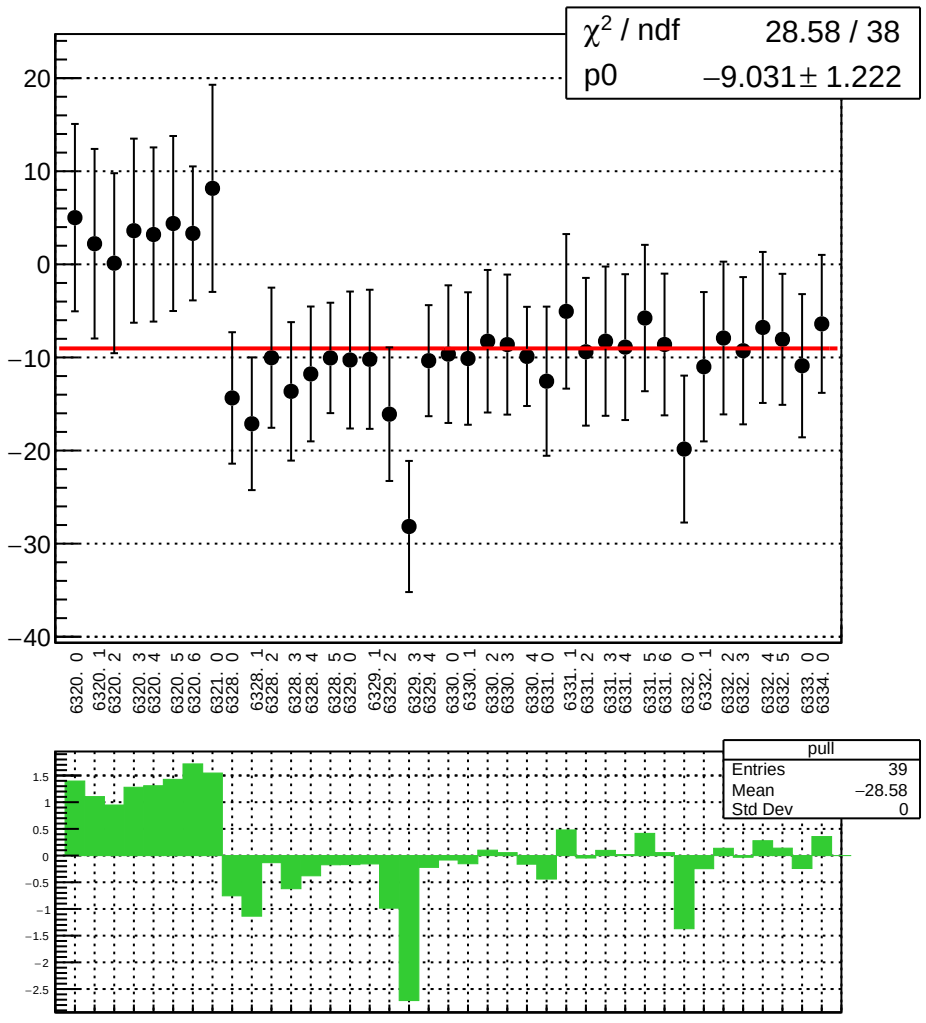

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.46 / 38
p0 16.57 ± 0.6255
pull
Entries 39
Mean 52.8
Std Dev 0
pull1D
Entries 39
Mean −0.1547
Std Dev 1.007

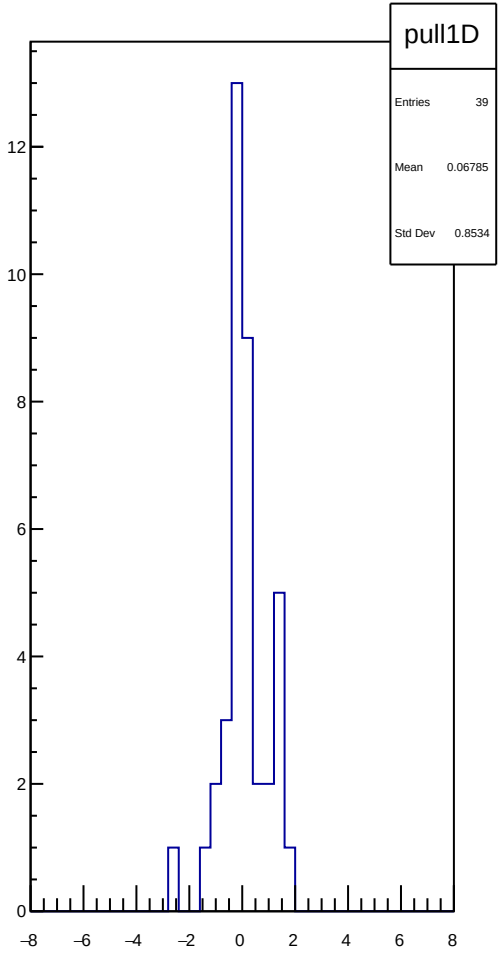

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 127.7 / 38
p0 23.92 ± 0.8969
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 61.49
Std Dev 0
3
2
1
0
−1
−2
−3
−4

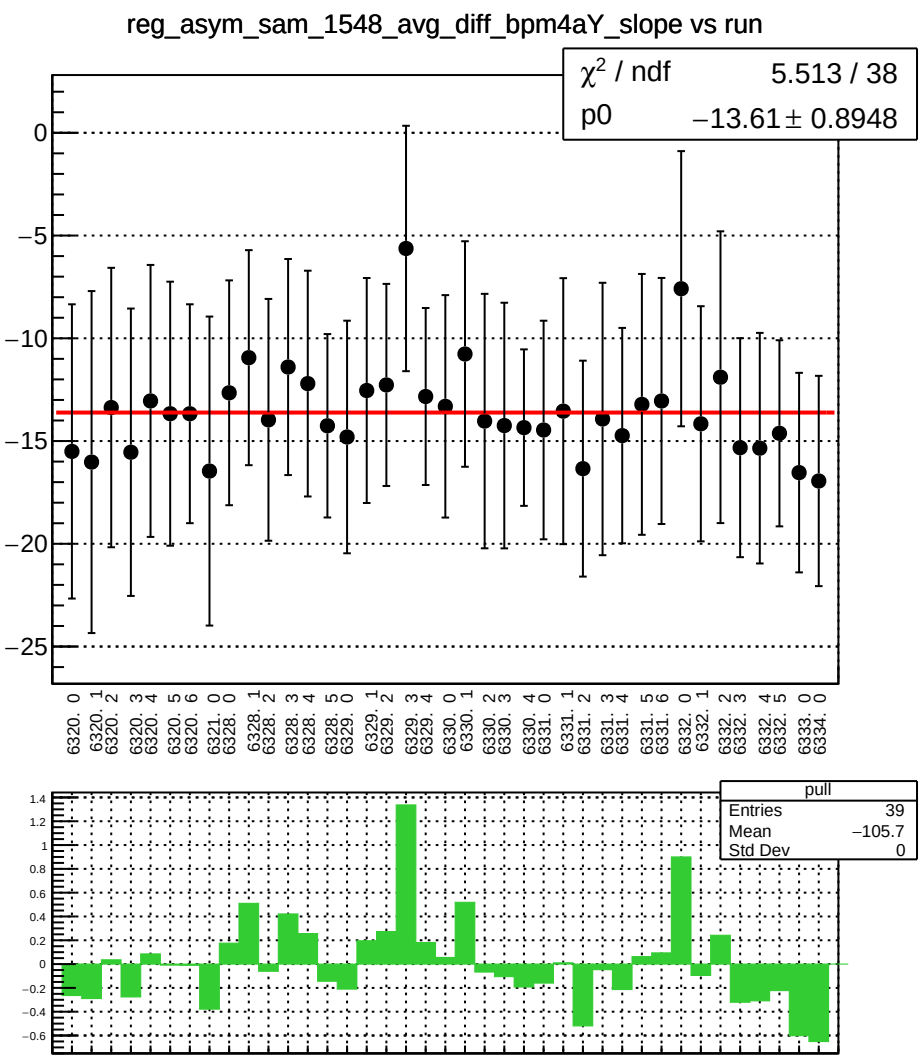

pull1D
Entries 39
Mean −0.2491
Std Dev 1.792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

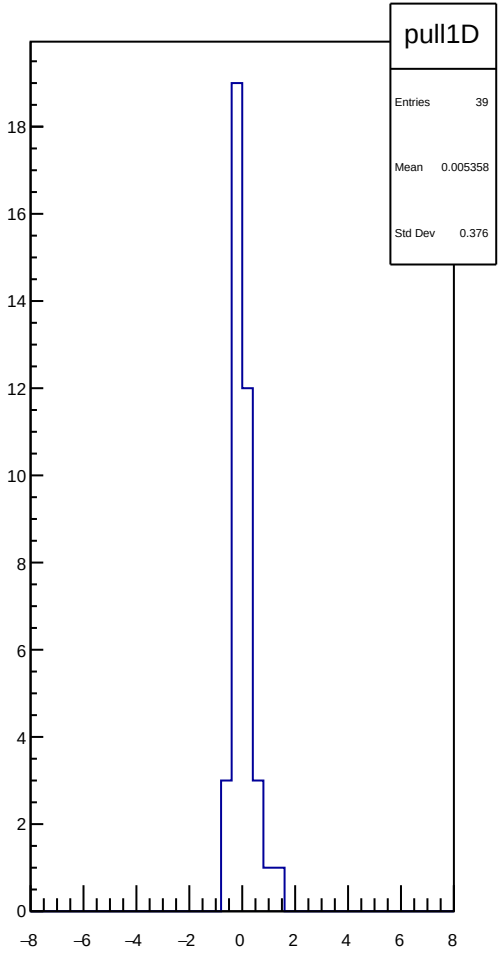

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.86 / 38
p0 −107.9 ± 0.7039
−95
−100
−105
−110
−115
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 98.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.04684
Std Dev 0.8883
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

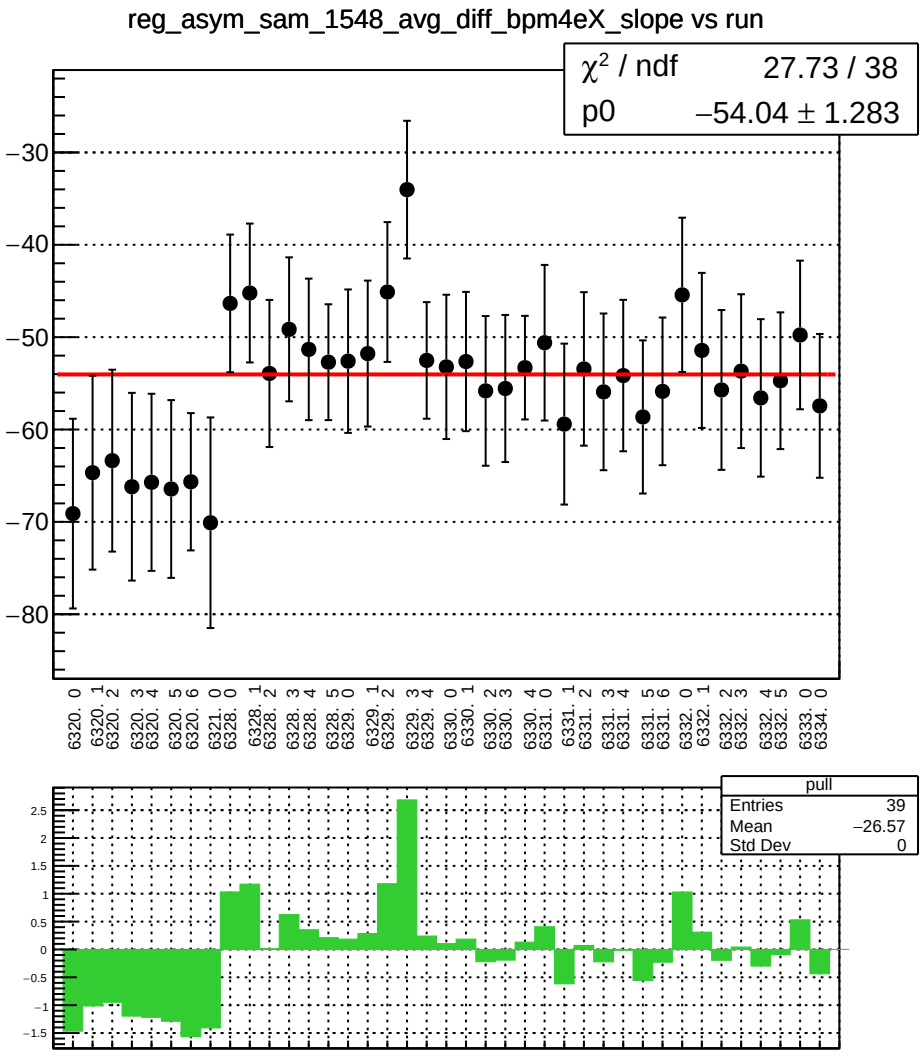

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 186.5 / 38
p0 0.2027 ± 0.03572
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.33
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 39
Mean −0.2838
Std Dev 2.169
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

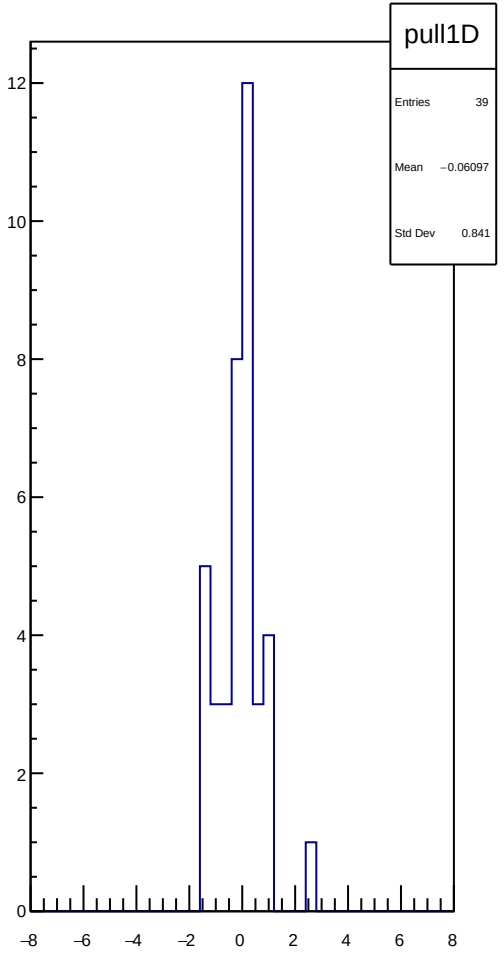

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 28.58 / 38
p0 −9.031 ± 1.222
pull
Entries 39
Mean −28.58
Std Dev 0

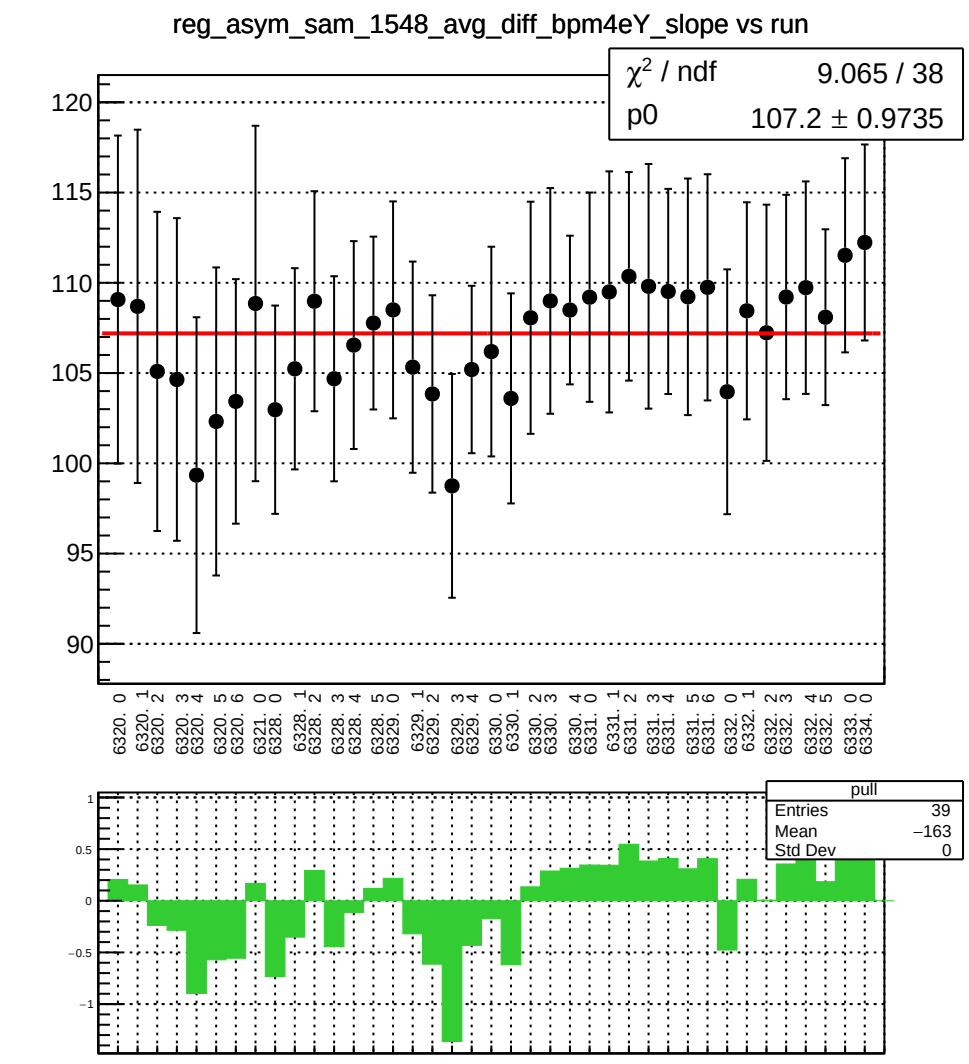

pull1D
Entries 39
Mean 0.06785
Std Dev 0.8534

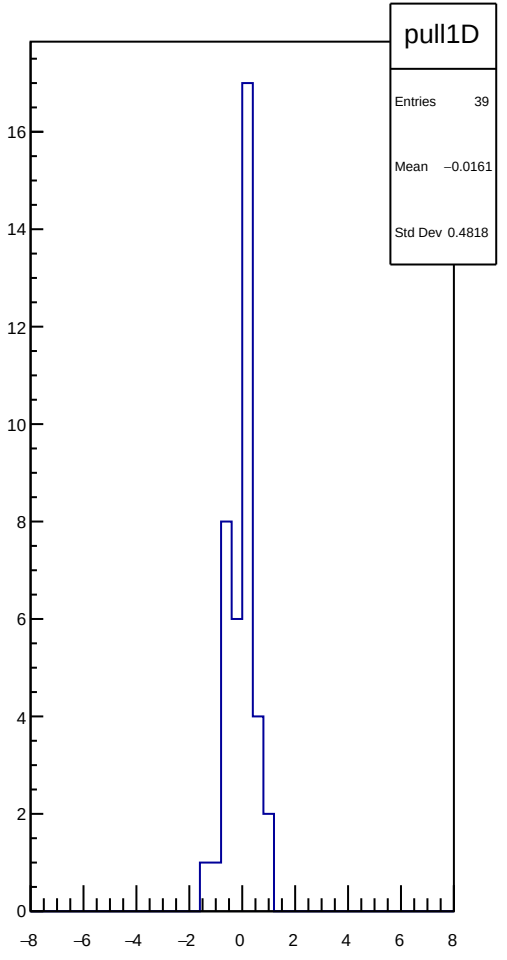

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.513 / 38
p0 −13.61 ± 0.8948
pull
Entries 39
Mean −105.7
Std Dev 0

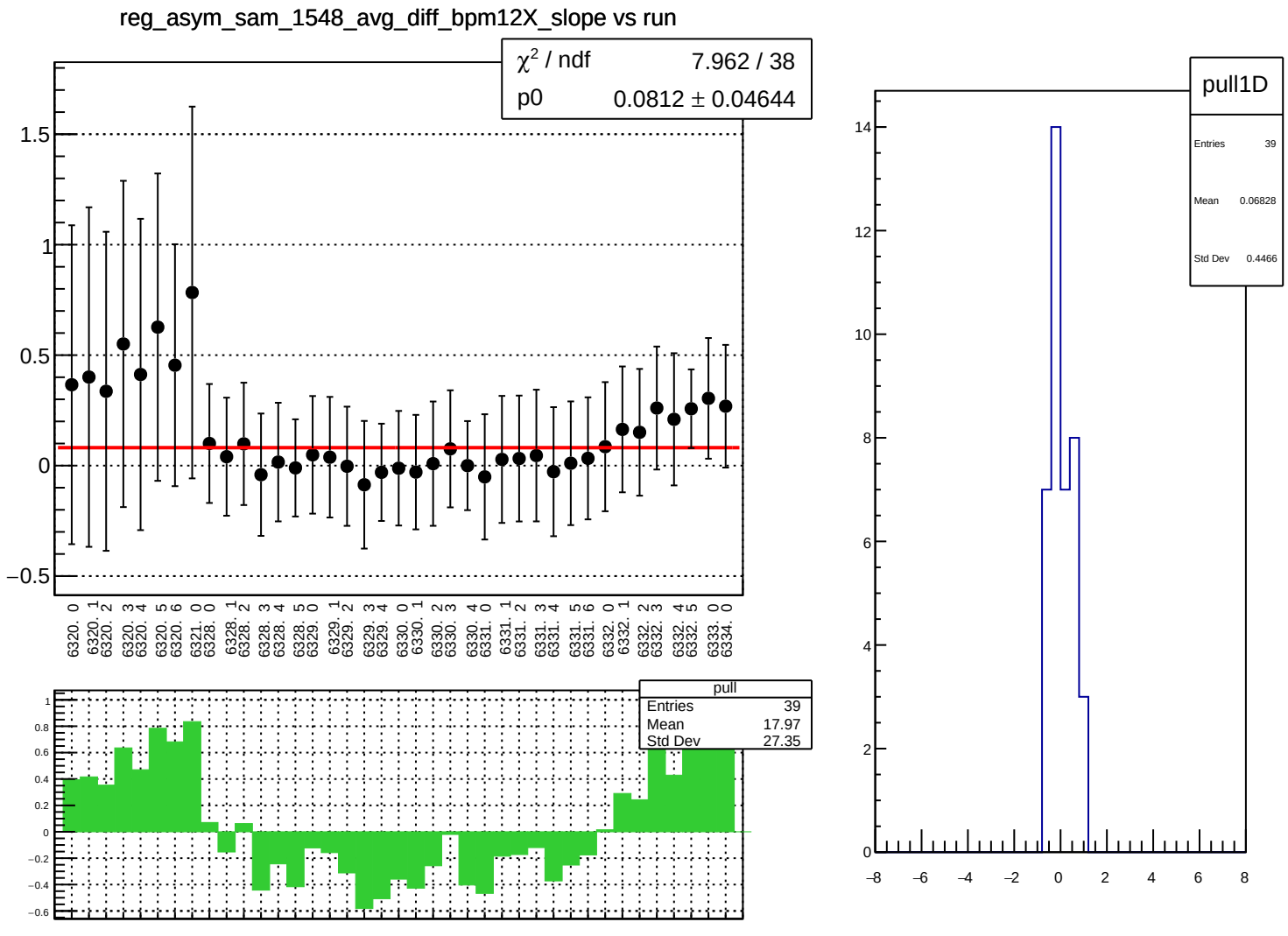

pull1D
Entries 39
Mean 0.005358
Std Dev 0.376

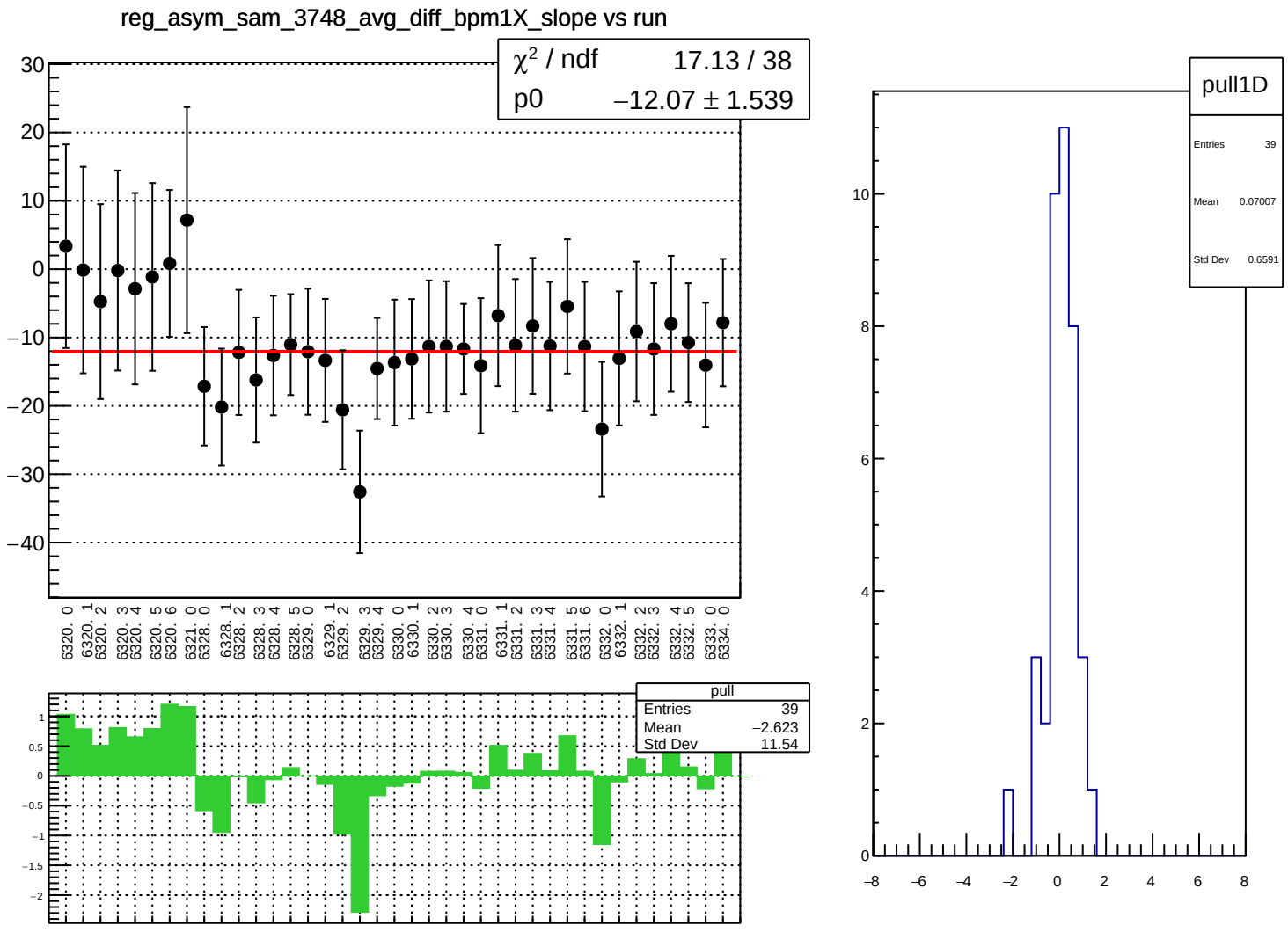

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.73 / 38
p0 −54.04 ± 1.283
−30
−40
−50
−60
−70
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −26.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

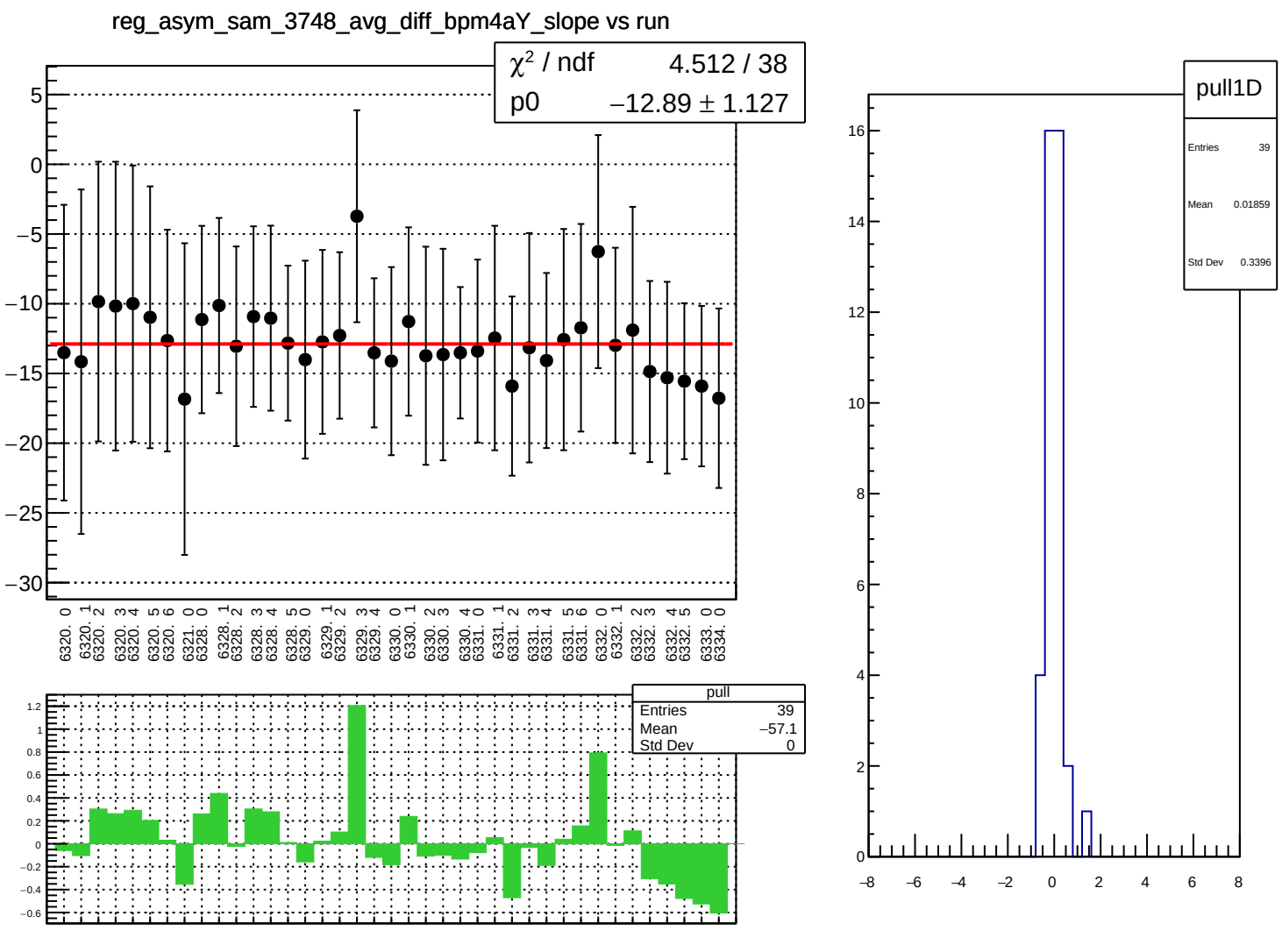

pull1D
Entries 39
Mean −0.06097
Std Dev 0.841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

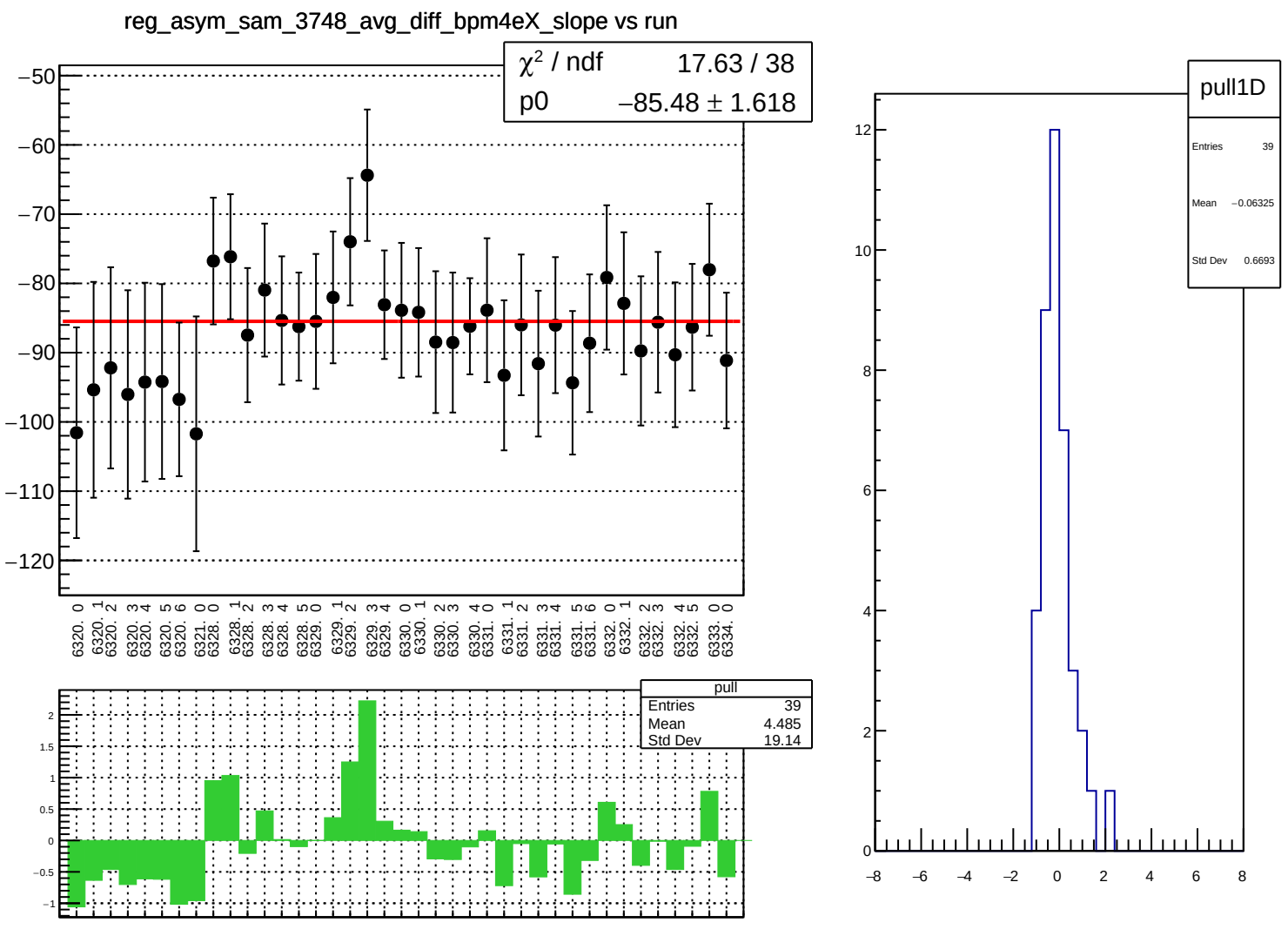

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.065 / 38
p0 107.2 ± 0.9735
120
115
110
105
100
95
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −163
Std Dev 0
1
0.5
0
−0.5
−1

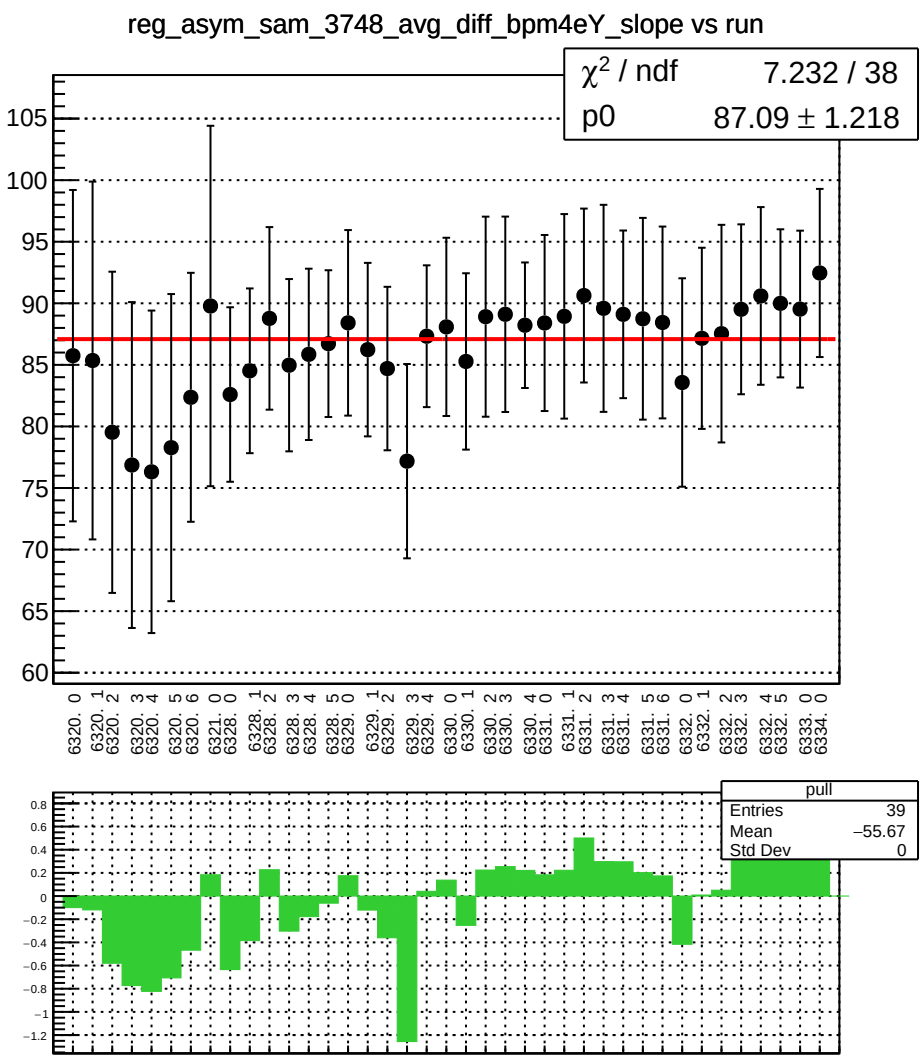

pull1D
Entries 39
Mean −0.0161
Std Dev 0.4818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

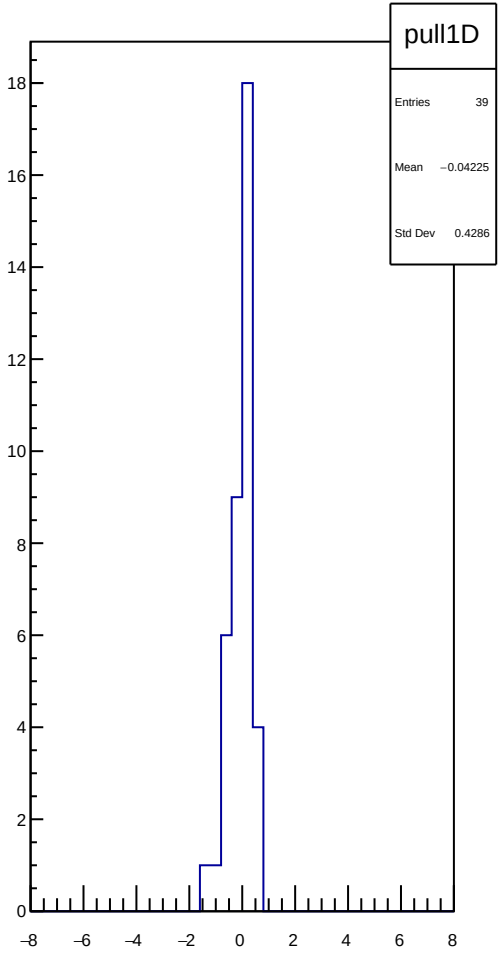

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 7.962 / 38
p0 0.0812 ± 0.04644
1.5
1
0.5
0
−0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 17.97
Std Dev 27.35
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.06828
Std Dev 0.4466
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

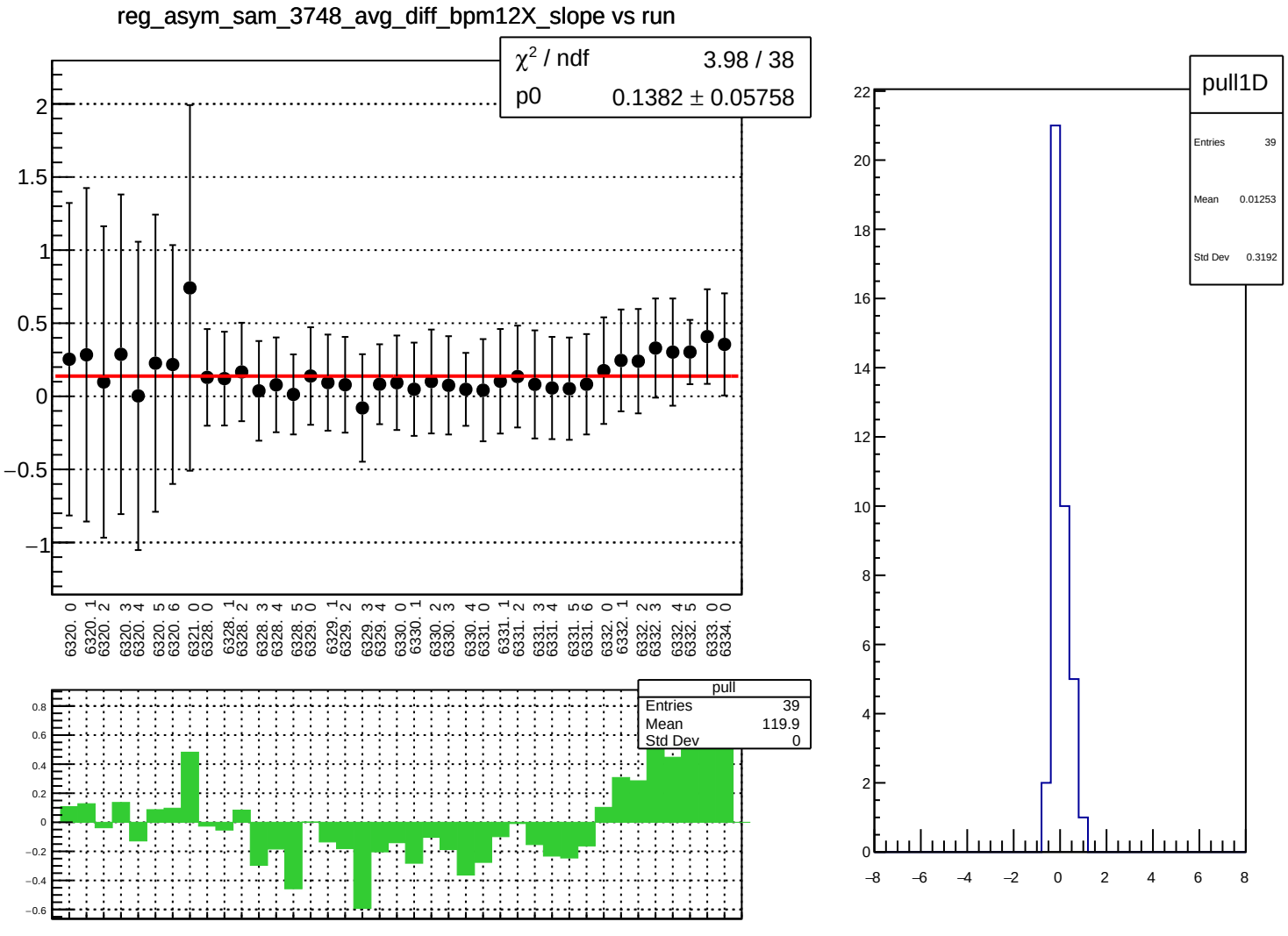

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 17.13 / 38
p0 −12.07 ± 1.539
pull
Entries 39
Mean −2.623
Std Dev 11.54
pull1D
Entries 39
Mean 0.07007
Std Dev 0.6591

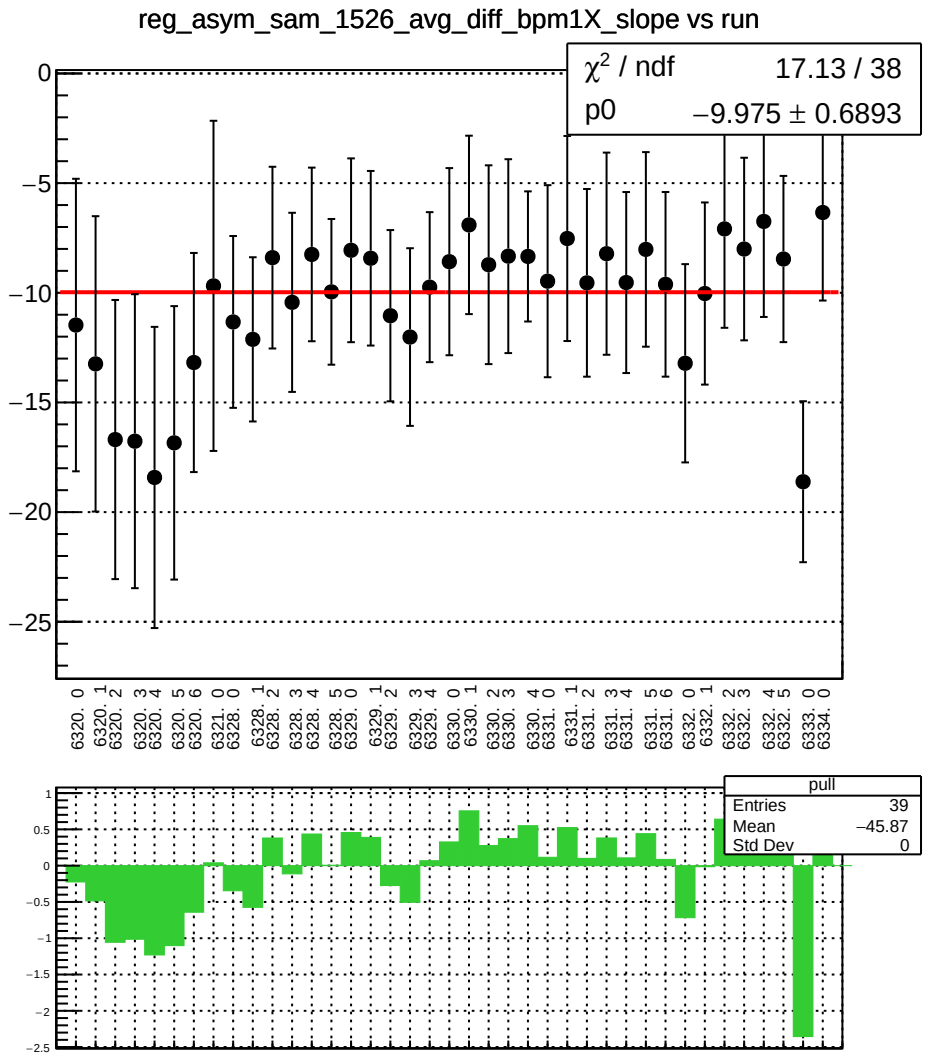

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.512 / 38
p0 −12.89 ± 1.127
pull
Entries 39
Mean −57.1
Std Dev 0
pull1D
Entries 39
Mean 0.01859
Std Dev 0.3396

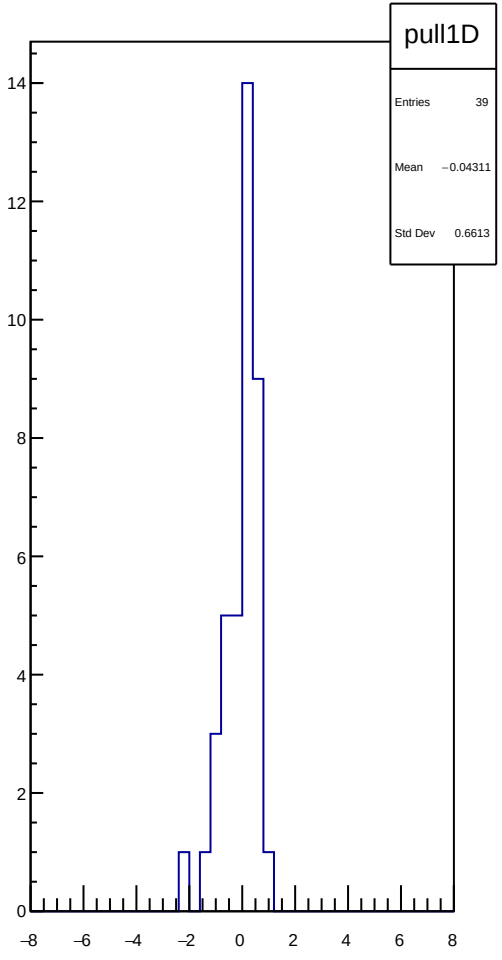

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.63 / 38
p0 −85.48 ± 1.618
−50
−60
−70
−80
−90
−100
−110
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 4.485
Std Dev 19.14
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.06325
Std Dev 0.6693
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

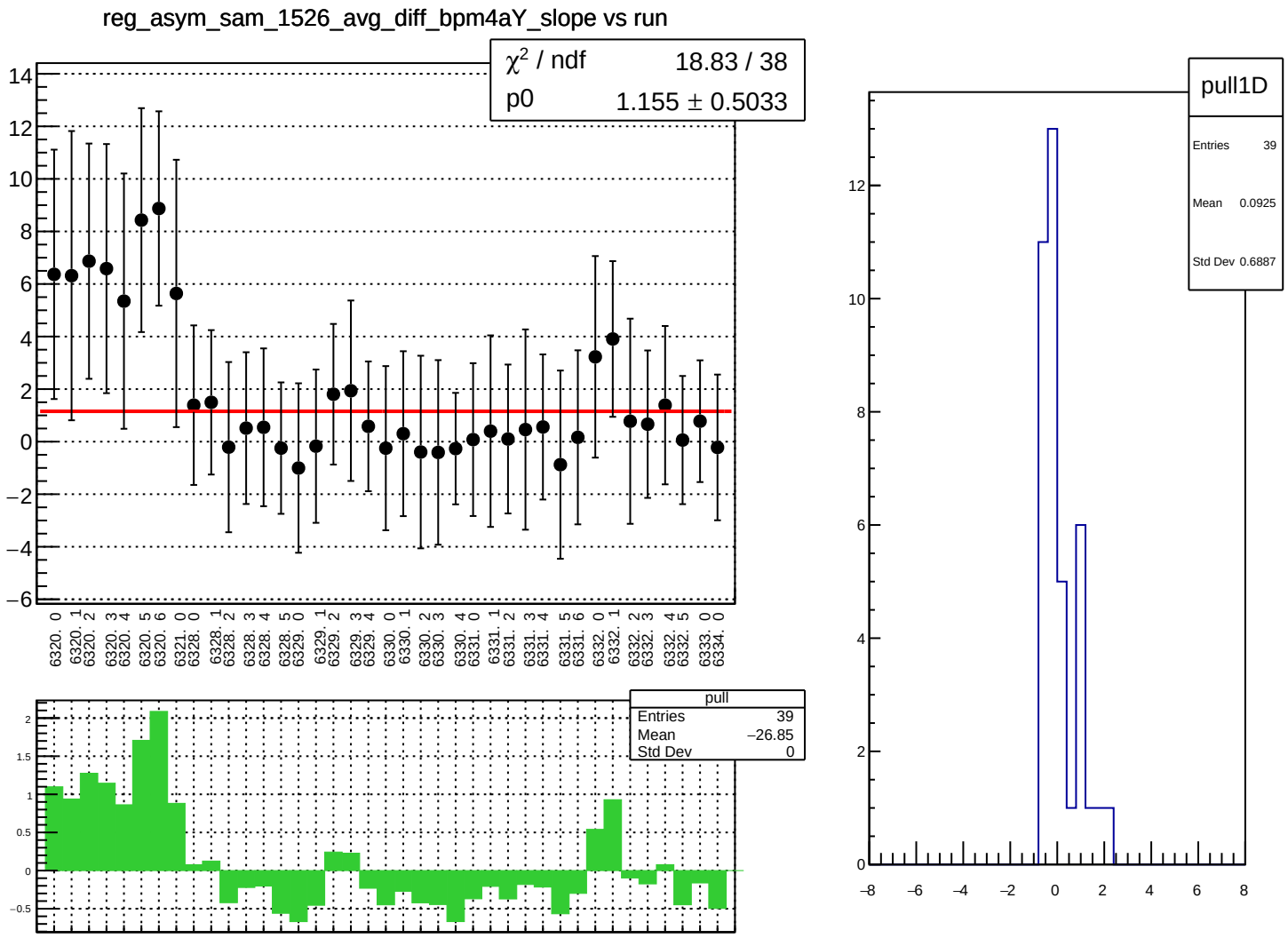

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.232 / 38
p0 87.09 ± 1.218
105
100
95
90
85
80
75
70
65
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −55.67
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

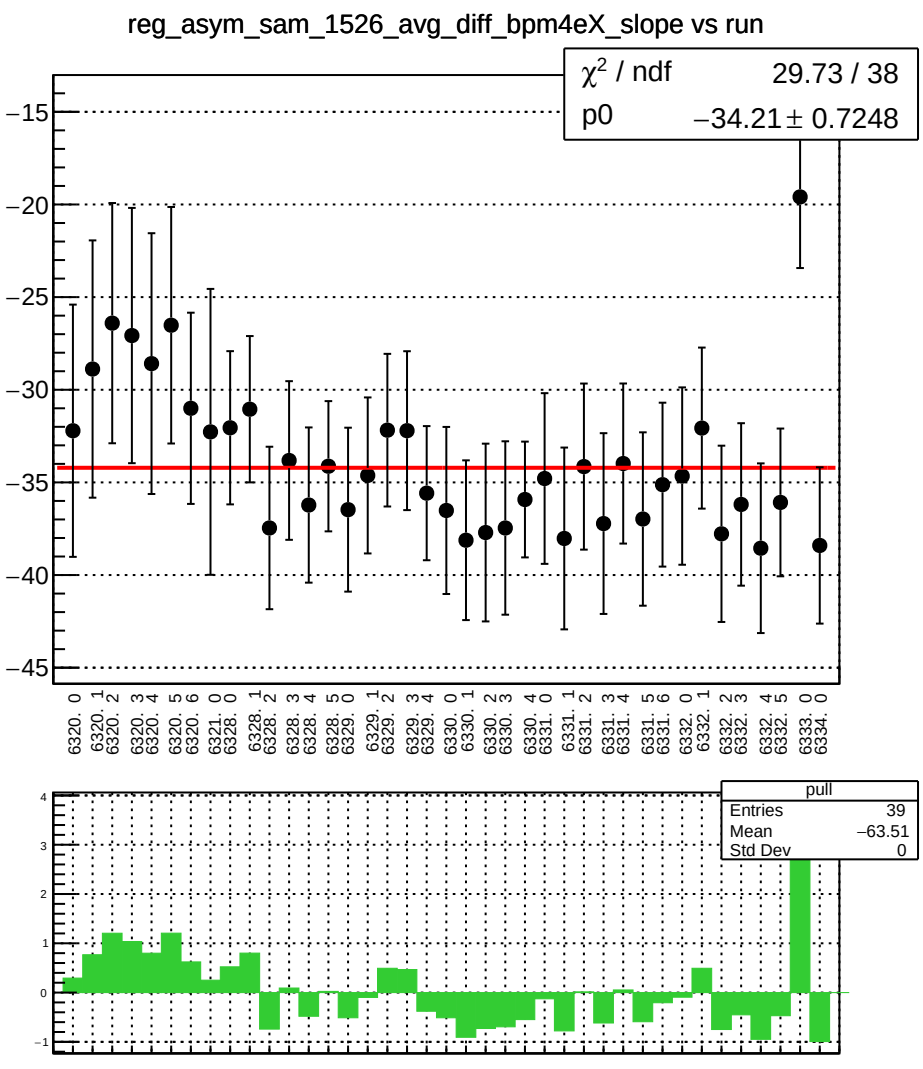

pull1D
Entries 39
Mean −0.04225
Std Dev 0.4286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

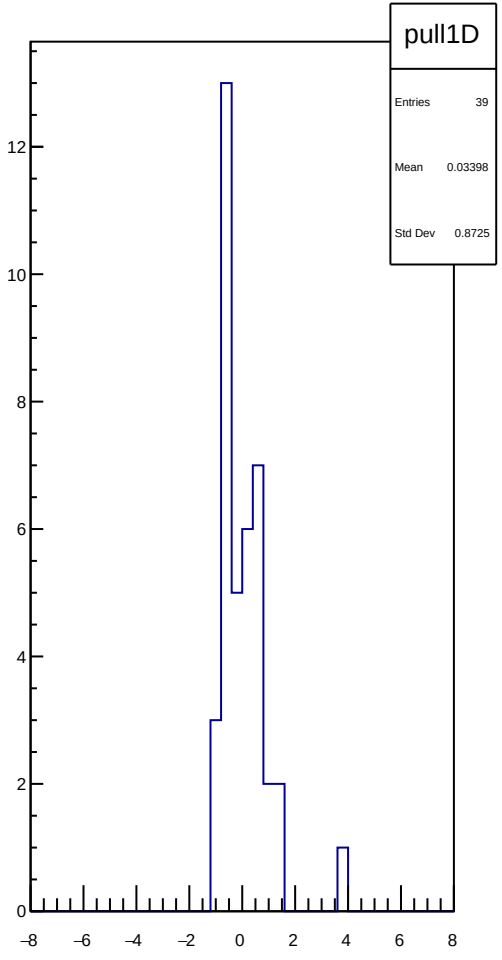

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.98 / 38
p0 0.1382 ± 0.05758
pull
Entries 39
Mean 119.9
Std Dev 0
pull1D
Entries 39
Mean 0.01253
Std Dev 0.3192

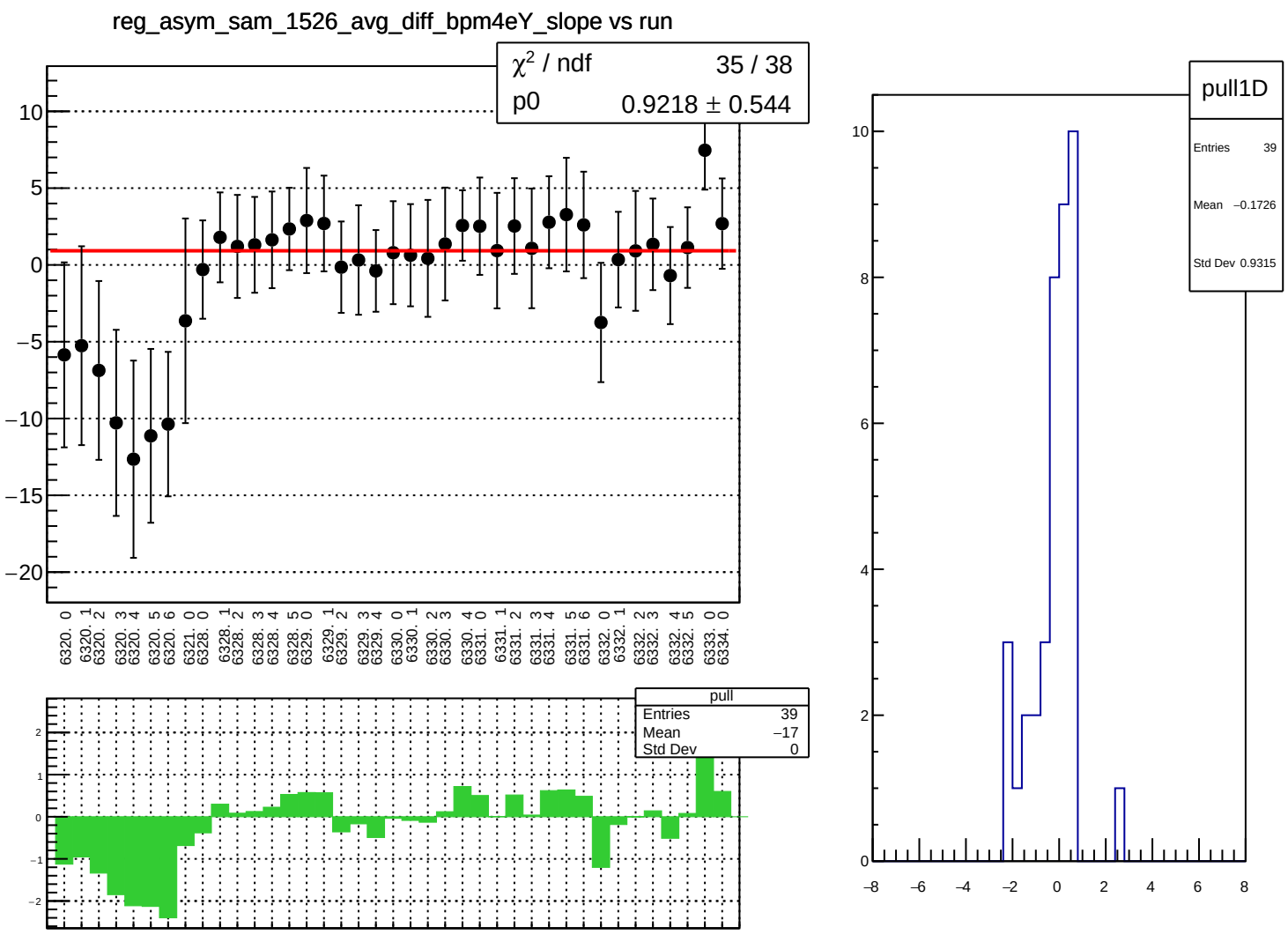

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 17.13 / 38
p0 −9.975 ± 0.6893
pull
Entries 39
Mean −45.87
Std Dev 0

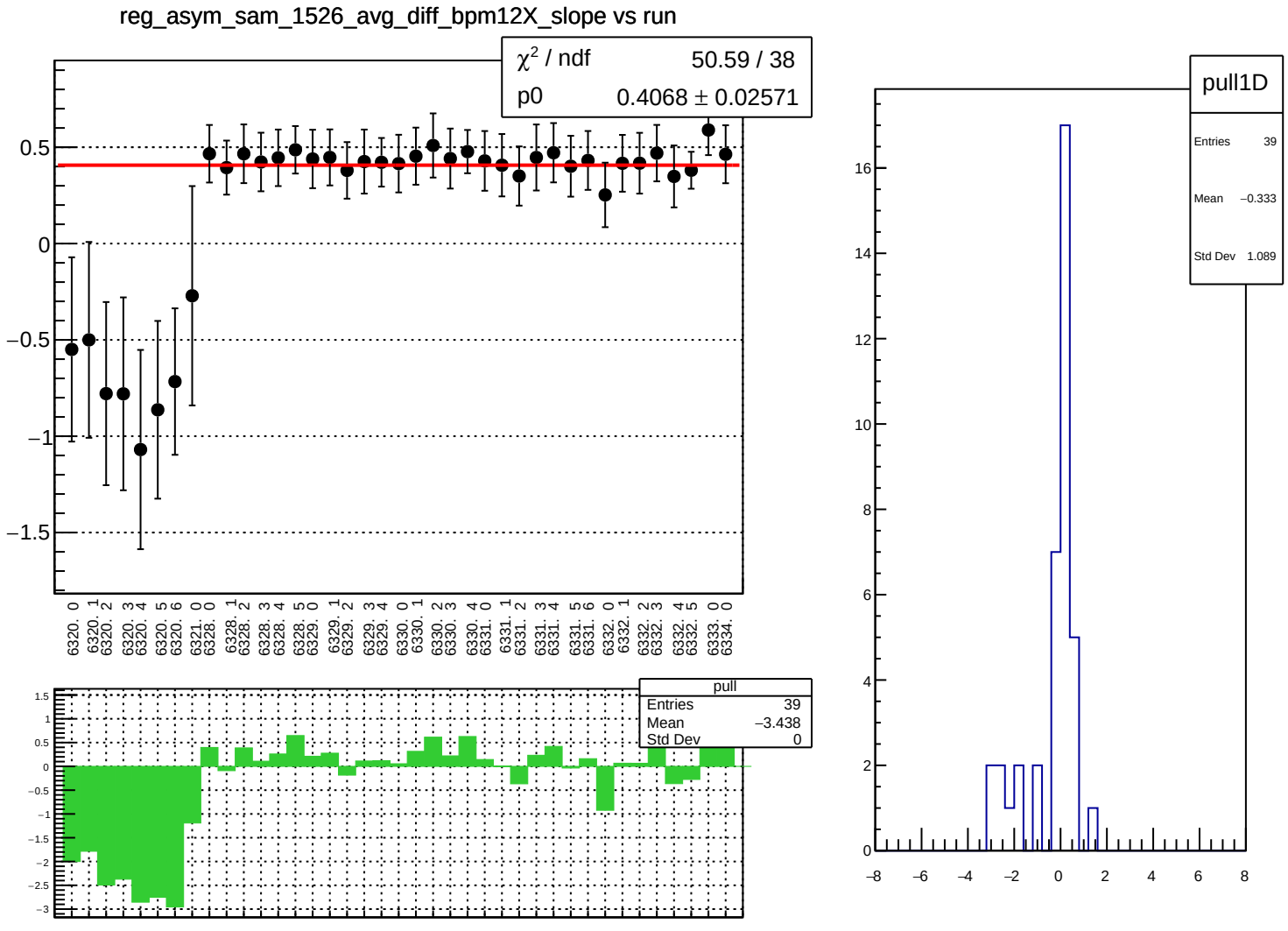

pull1D
Entries 39
Mean −0.04311
Std Dev 0.6613

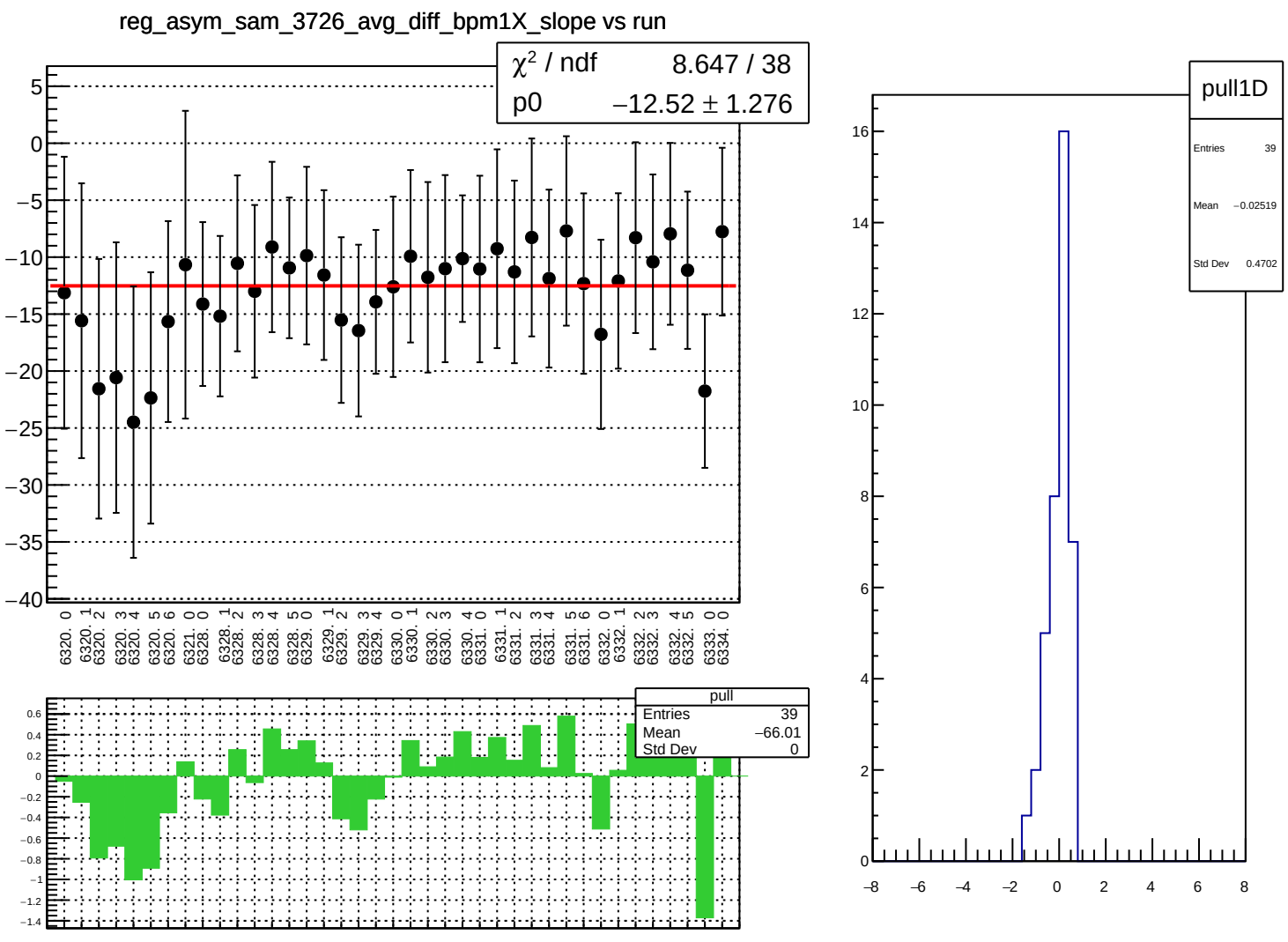

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.83 / 38
p0 1.155 ± 0.5033
pull
Entries 39
Mean −26.85
Std Dev 0
pull1D
Entries 39
Mean 0.0925
Std Dev 0.6887

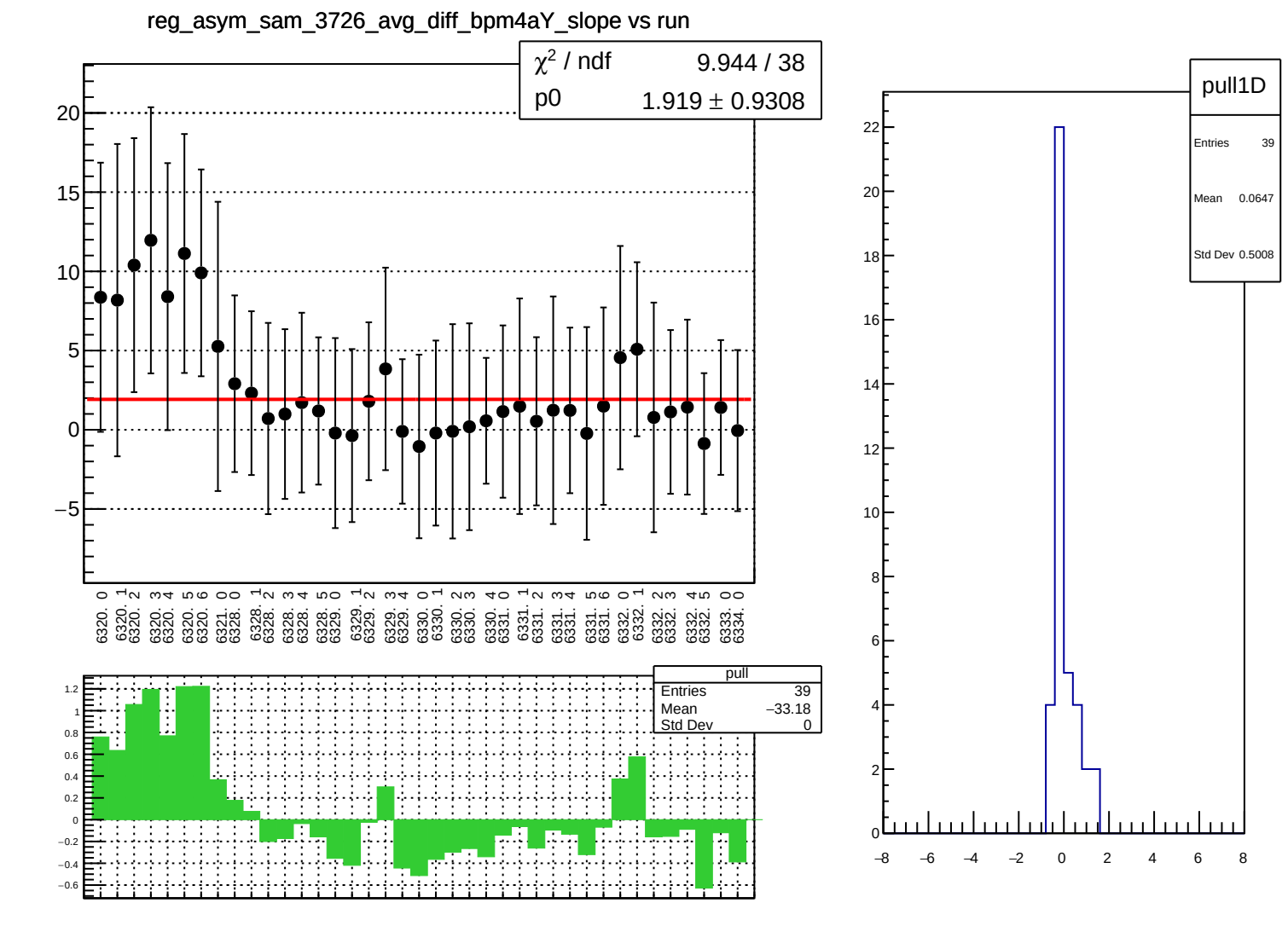

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.73 / 38
p0 −34.21 ± 0.7248
pull
Entries 39
Mean −63.51
Std Dev 0

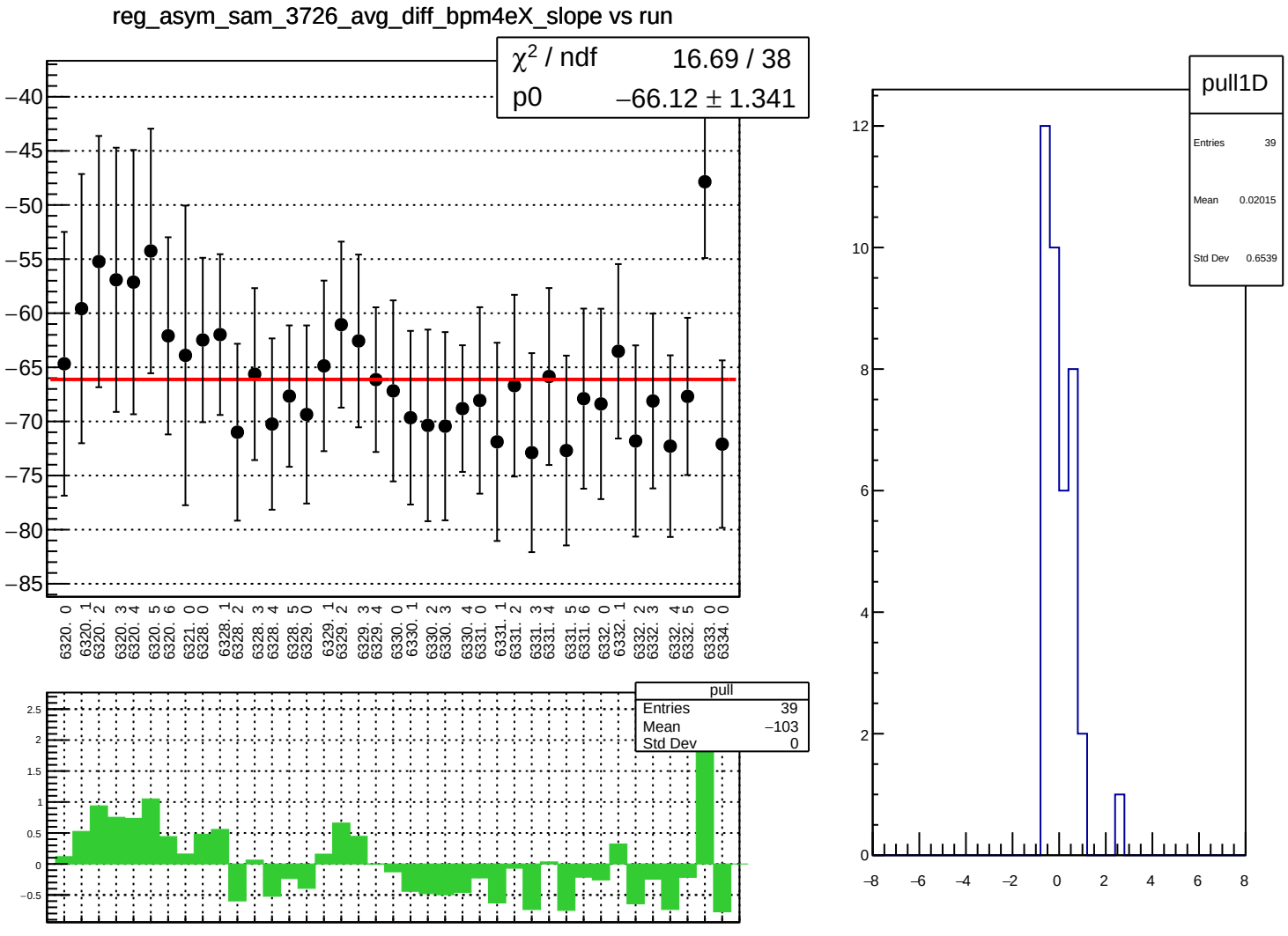

pull1D
Entries 39
Mean 0.03398
Std Dev 0.8725

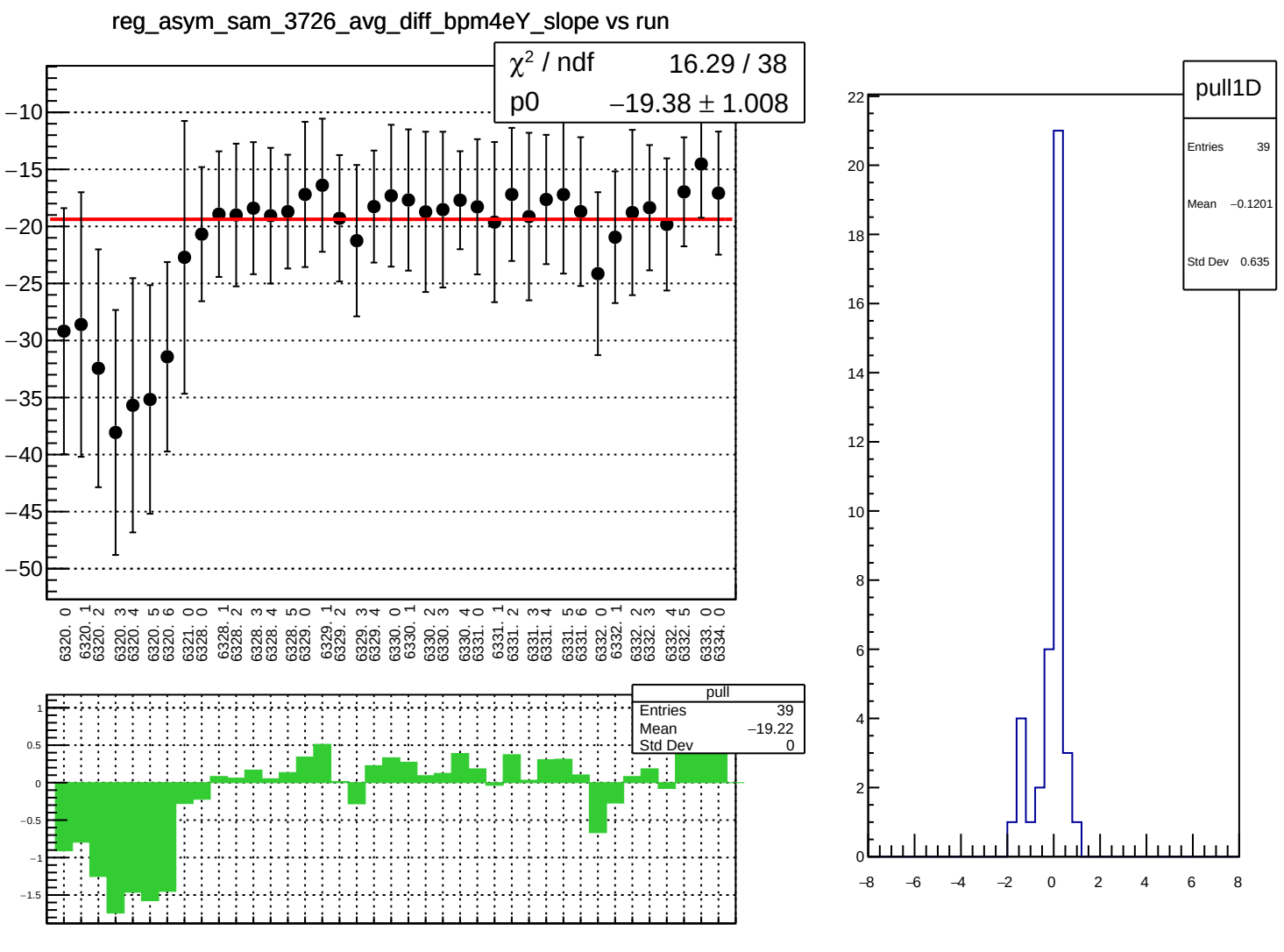

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 35 / 38
p0 0.9218 ± 0.544
pull
Entries 39
Mean −17
Std Dev 0
pull1D
Entries 39
Mean −0.1726
Std Dev 0.9315

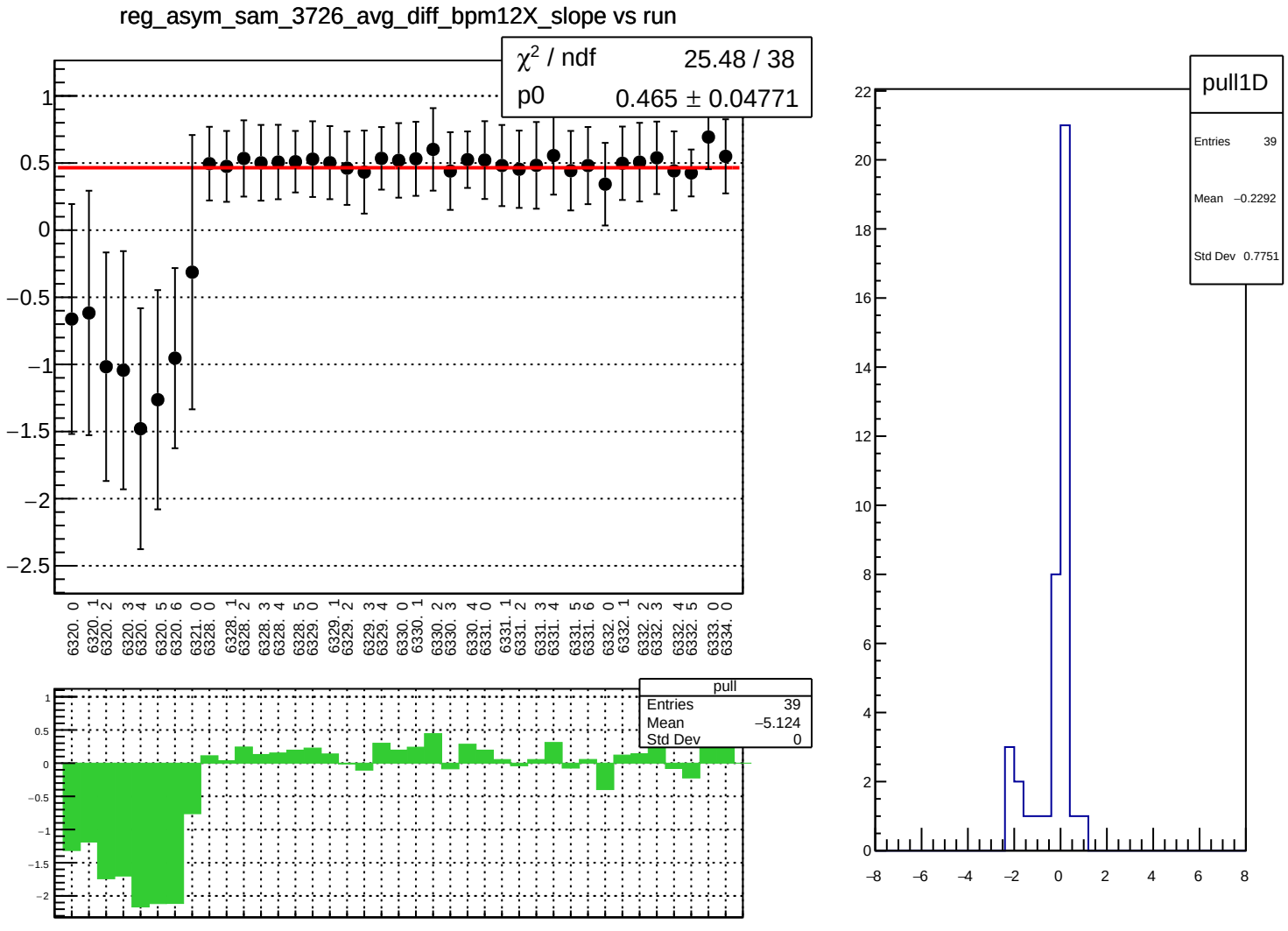

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 50.59 / 38
p0 0.4068 ± 0.02571
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −3.438
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 39
Mean −0.333
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

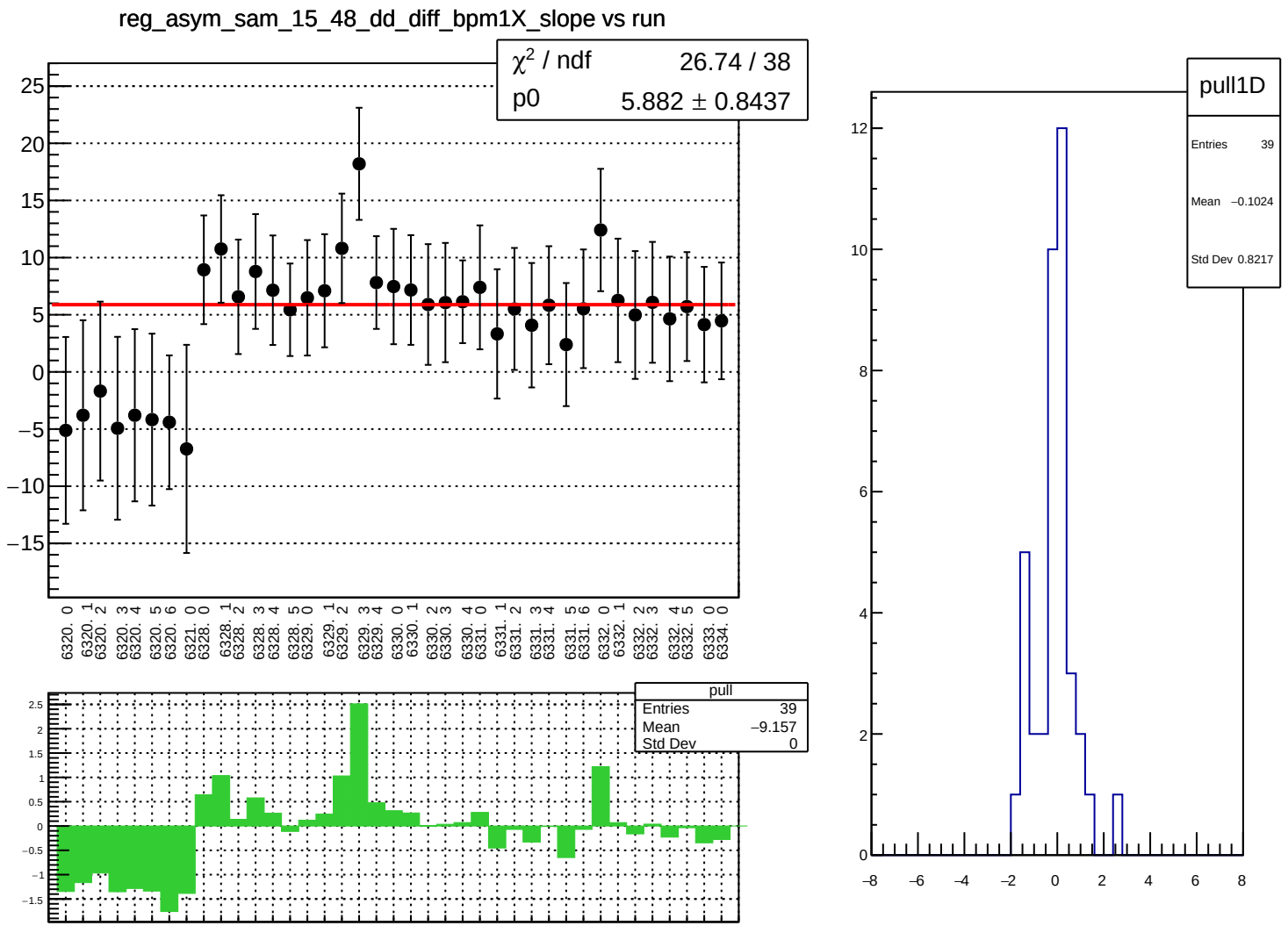

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 8.647 / 38
p0 −12.52 ± 1.276
pull
Entries 39
Mean −66.01
Std Dev 0
pull1D
Entries 39
Mean −0.02519
Std Dev 0.4702

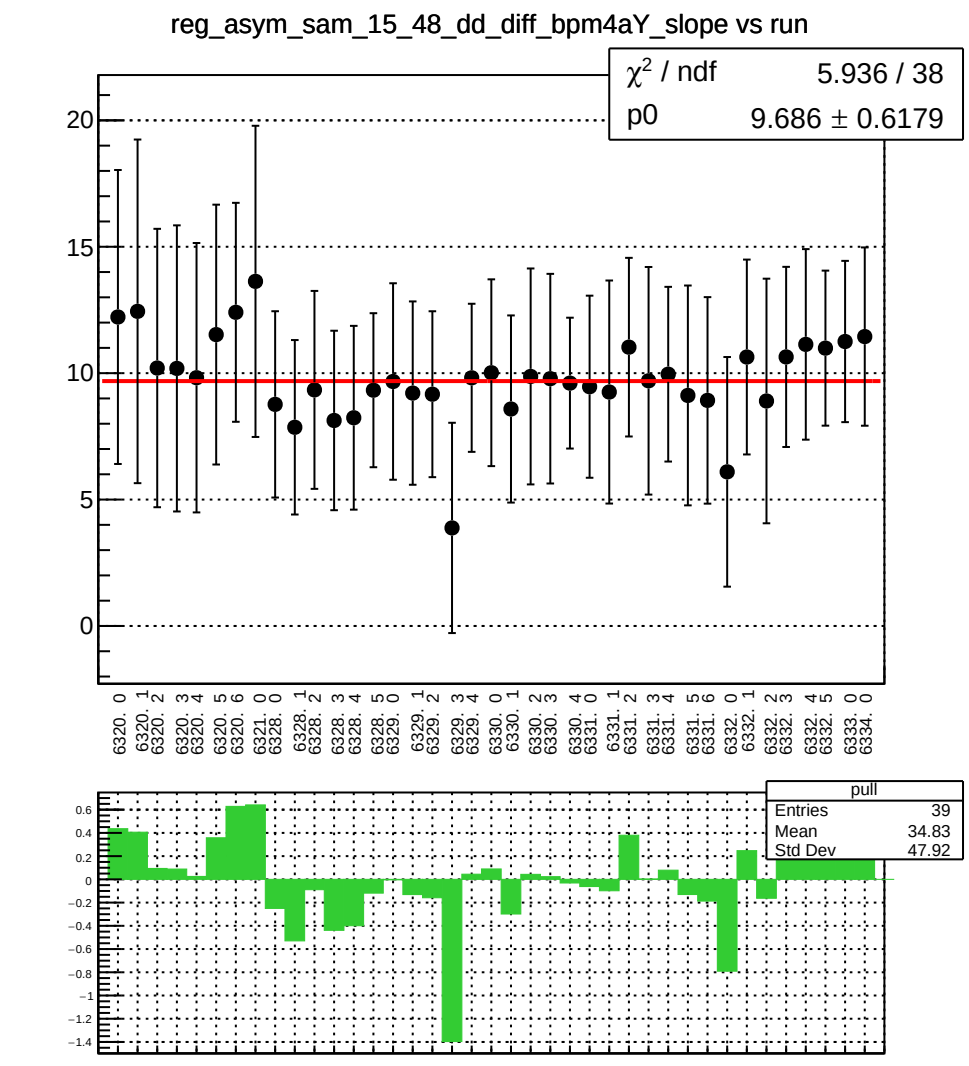

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.944 / 38
p0 1.919 ± 0.9308
pull
Entries 39
Mean −33.18
Std Dev 0
pull1D
Entries 39
Mean 0.0647
Std Dev 0.5008

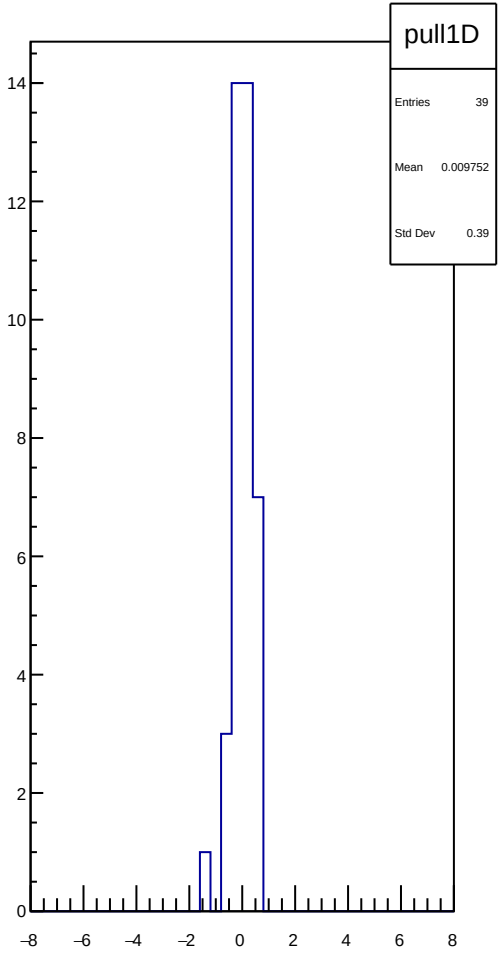

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.69 / 38
p0 −66.12 ± 1.341
pull
Entries 39
Mean −103
Std Dev 0
pull1D
Entries 39
Mean 0.02015
Std Dev 0.6539

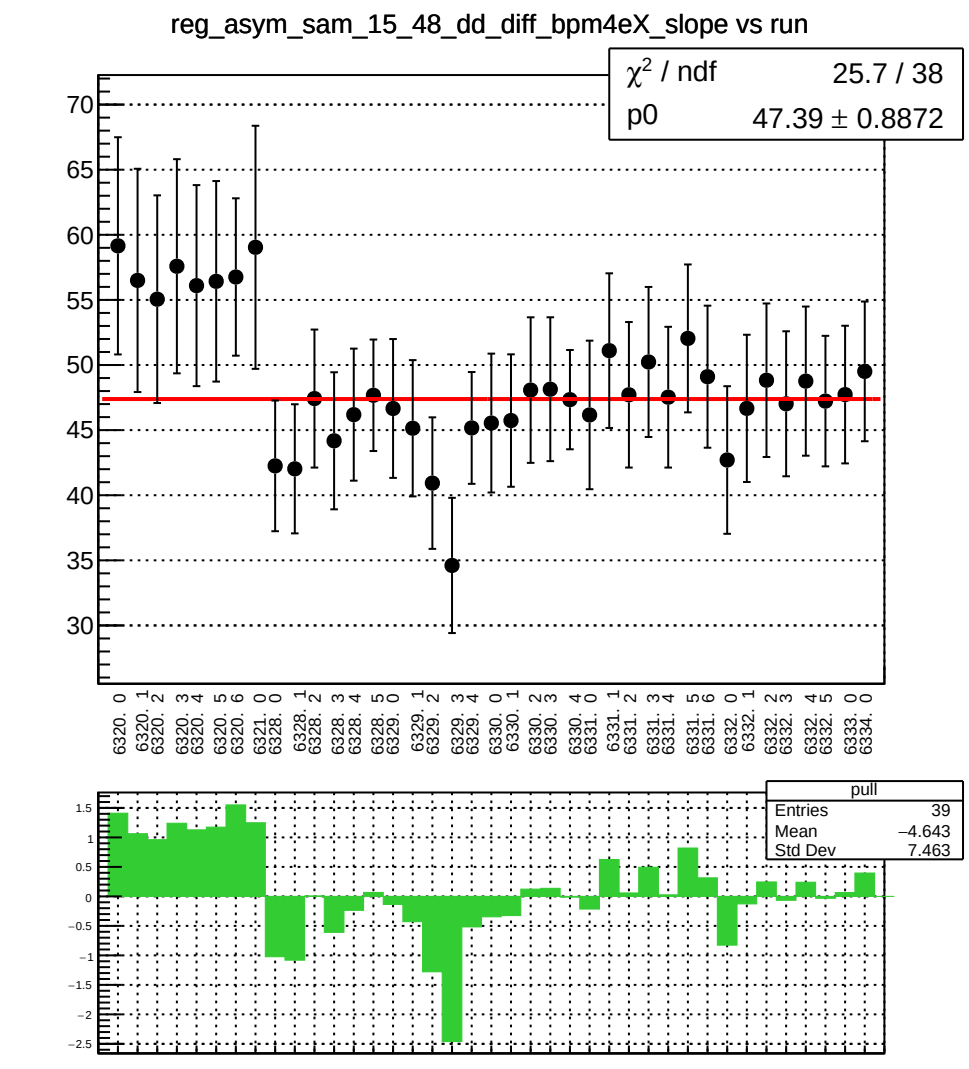

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.29 / 38
p0 −19.38 ± 1.008
pull
Entries 39
Mean −19.22
Std Dev 0
pull1D
Entries 39
Mean −0.1201
Std Dev 0.635

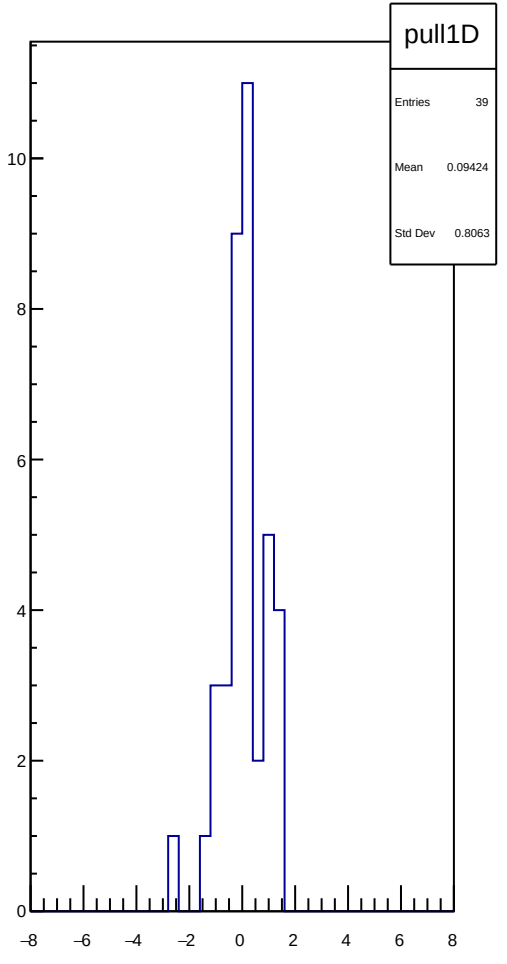

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 25.48 / 38
p0 0.465 ± 0.04771
pull
Entries 39
Mean −5.124
Std Dev 0
pull1D
Entries 39
Mean −0.2292
Std Dev 0.7751

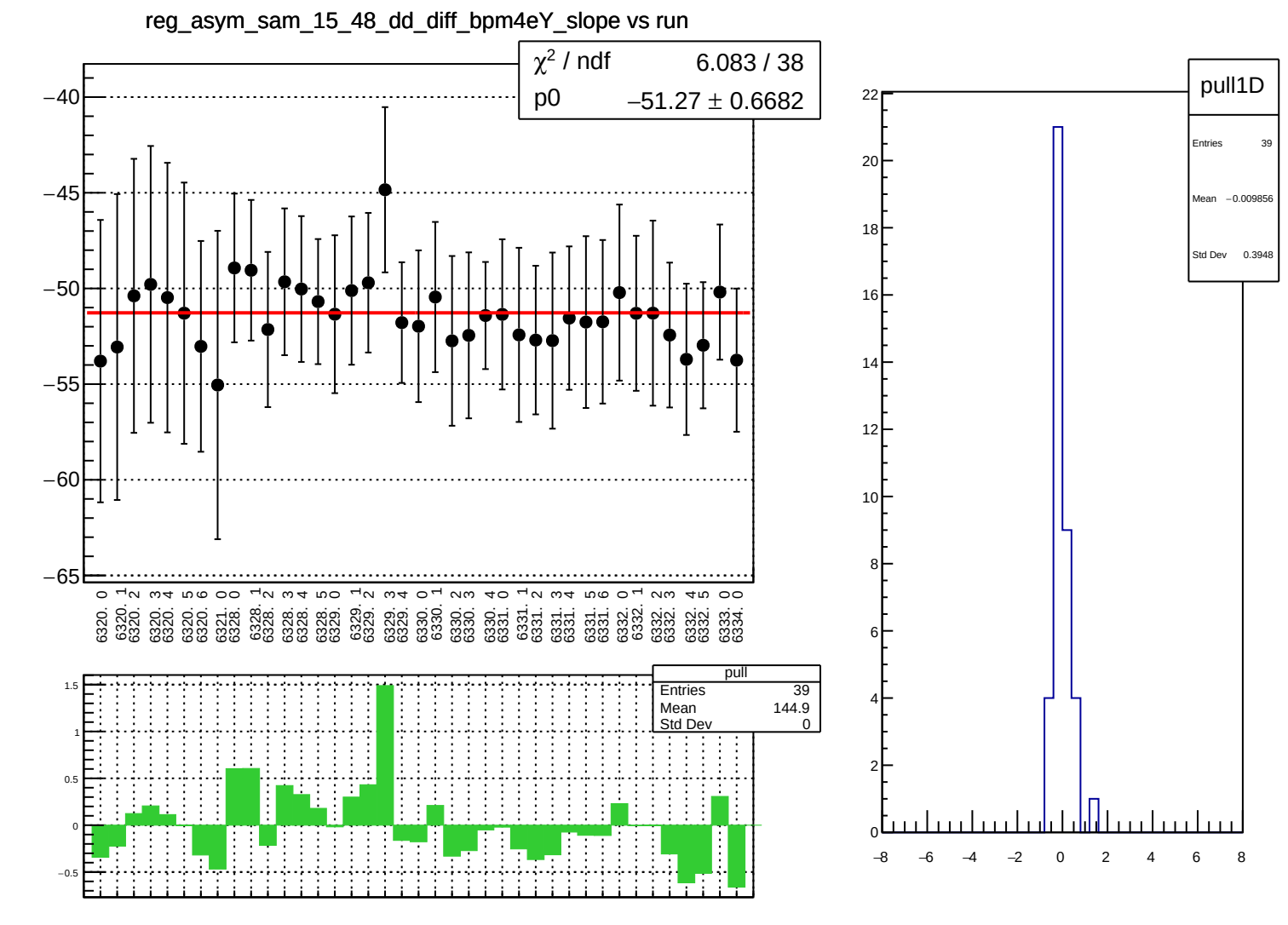

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 26.74 / 38
p0 5.882 ± 0.8437
pull
Entries 39
Mean −9.157
Std Dev 0
pull1D
Entries 39
Mean −0.1024
Std Dev 0.8217

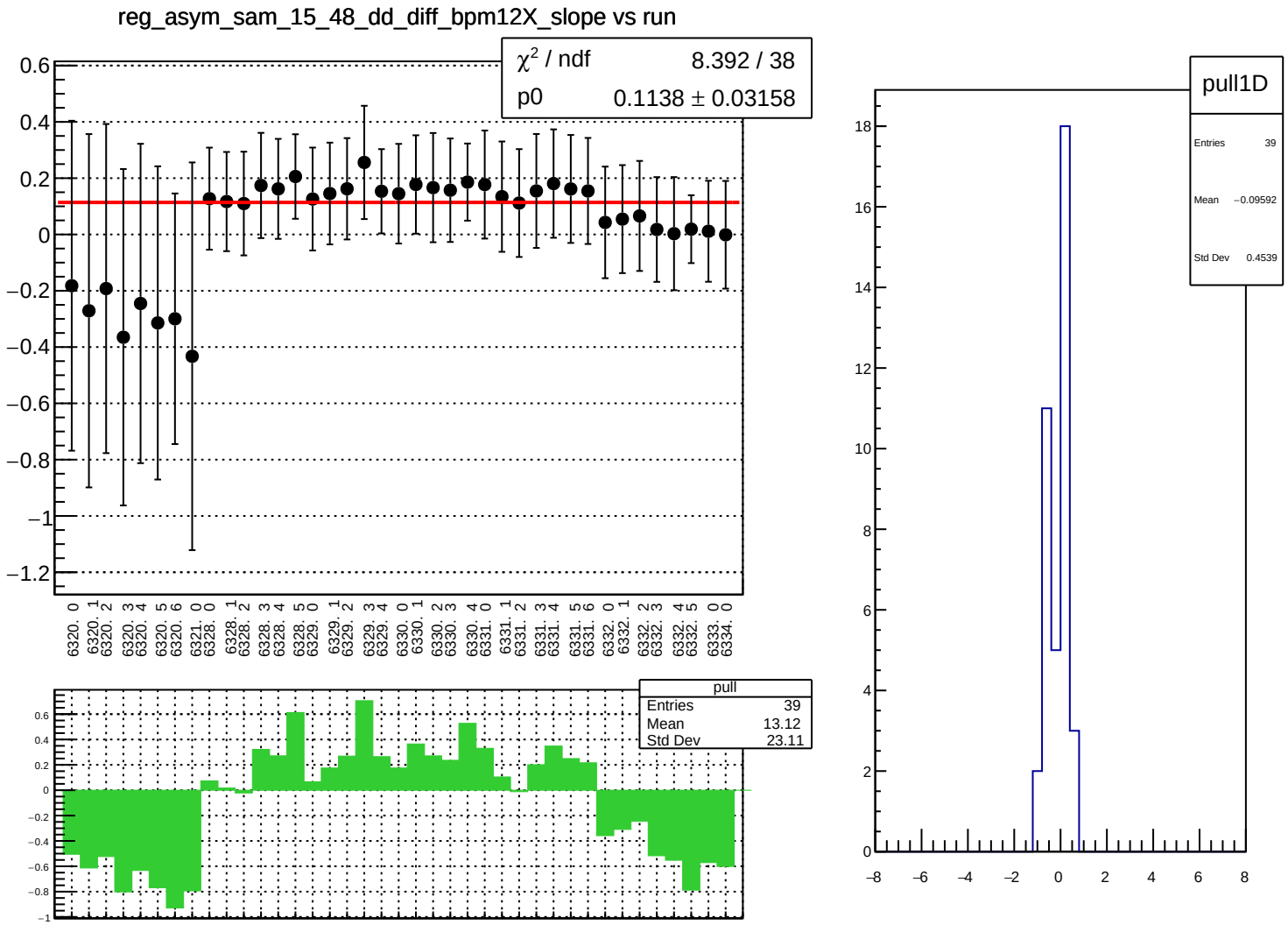

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.936 / 38
p0 9.686 ± 0.6179
pull
Entries 39
Mean 34.83
Std Dev 47.92

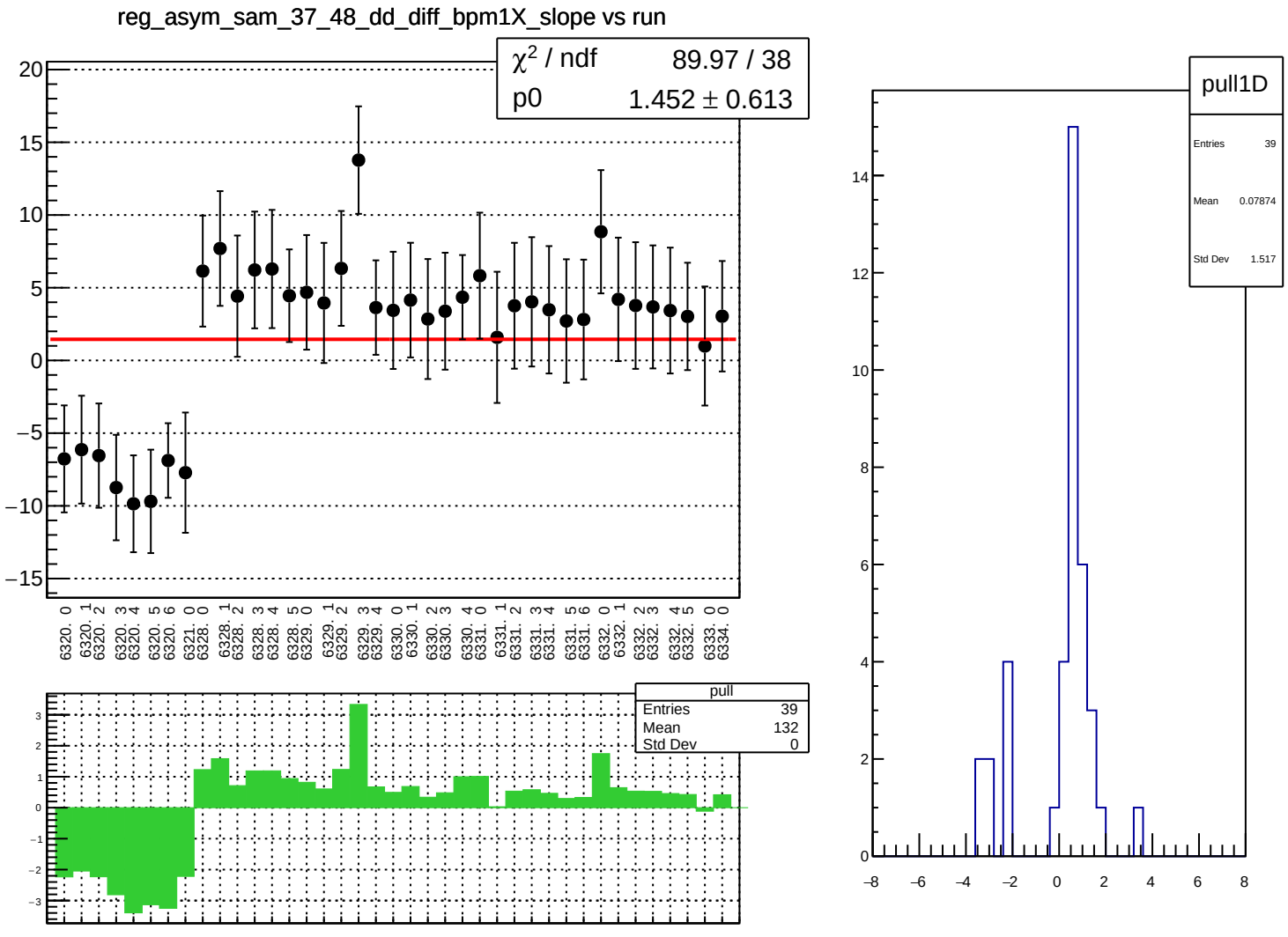

pull1D
Entries 39
Mean 0.009752
Std Dev 0.39

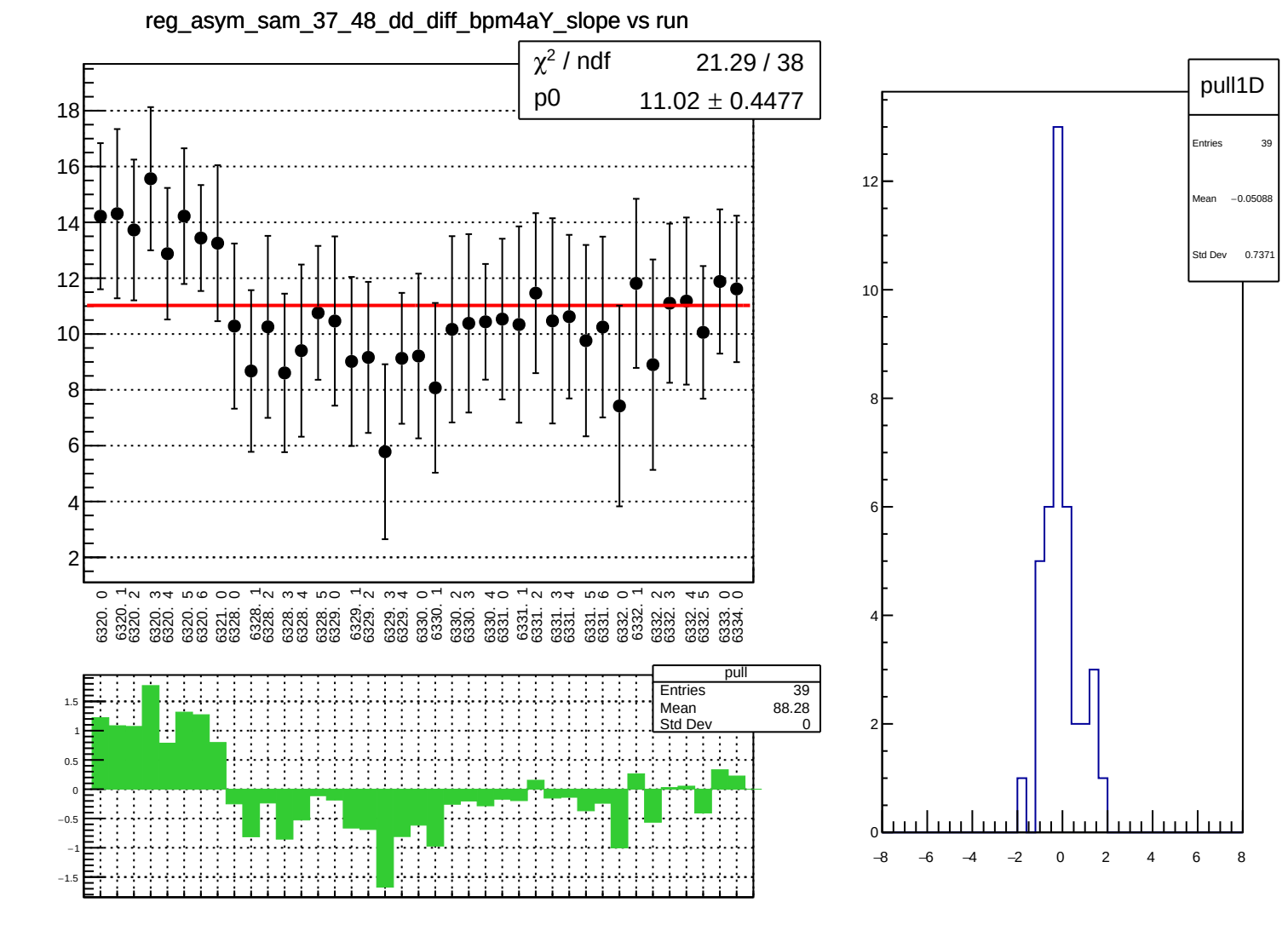

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.7 / 38
p0 47.39 ± 0.8872
pull
Entries 39
Mean −4.643
Std Dev 7.463

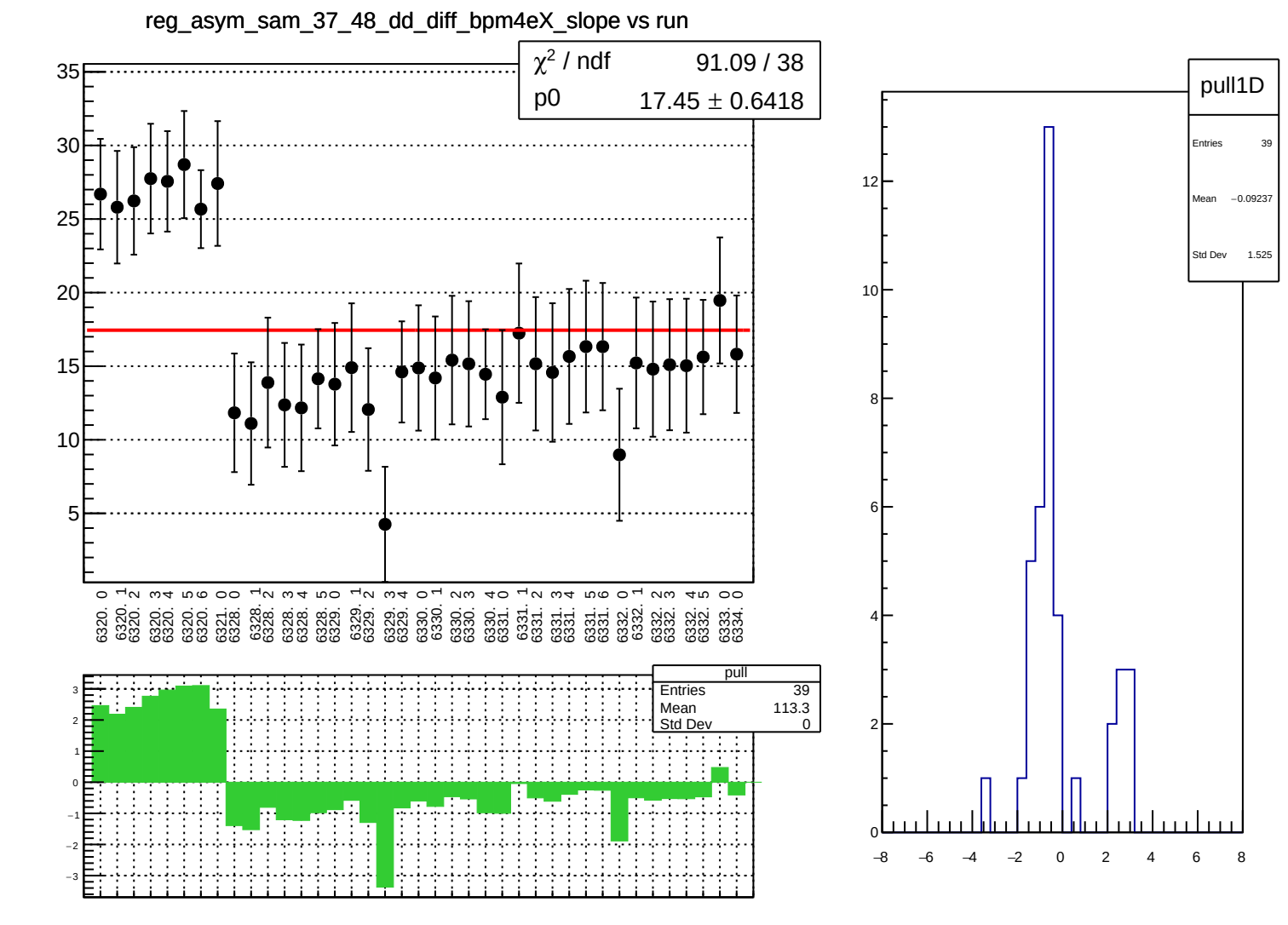

pull1D
Entries 39
Mean 0.09424
Std Dev 0.8063

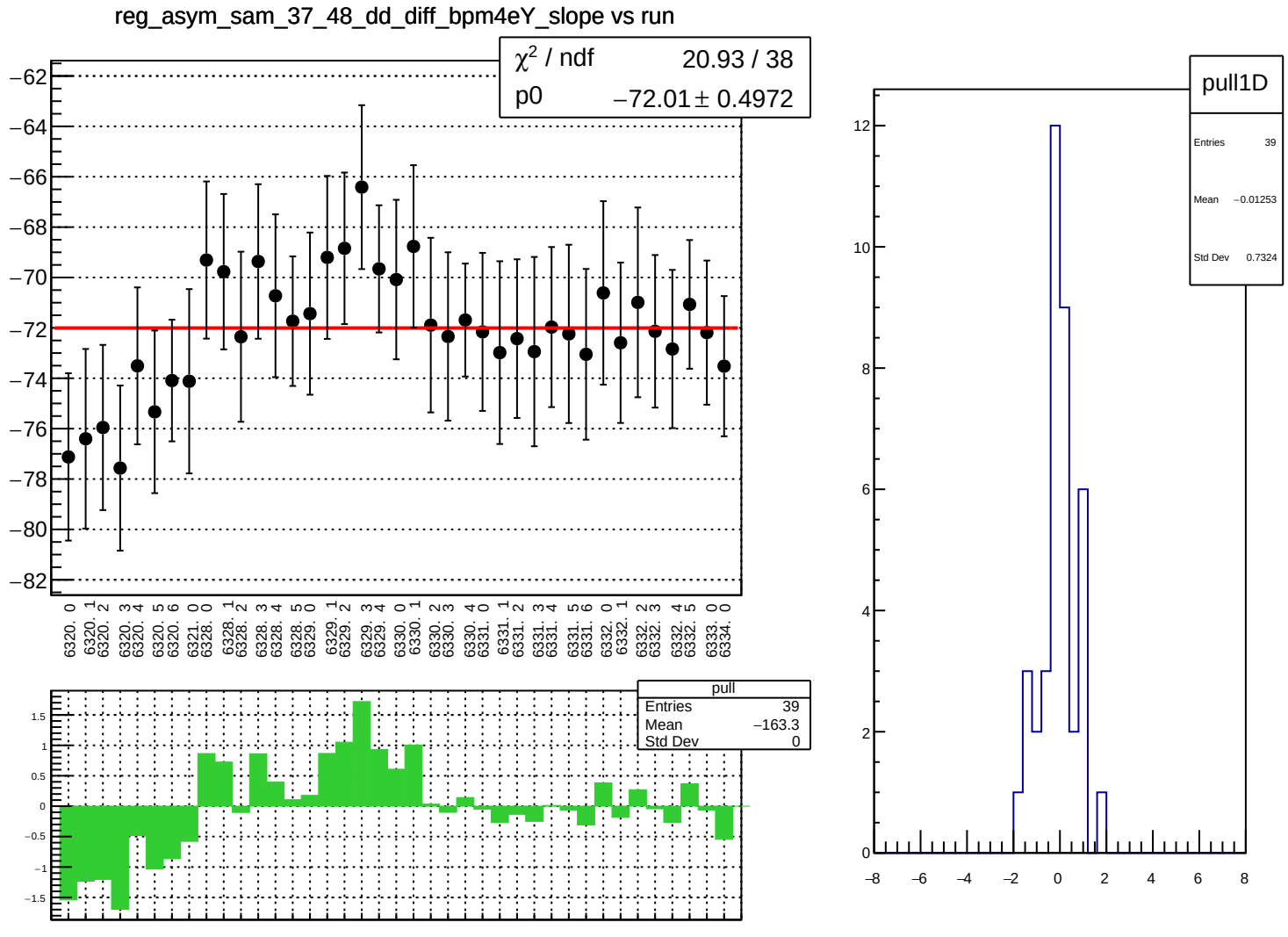

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.083 / 38
p0 −51.27 ± 0.6682
pull
Entries 39
Mean 144.9
Std Dev 0
pull1D
Entries 39
Mean −0.009856
Std Dev 0.3948

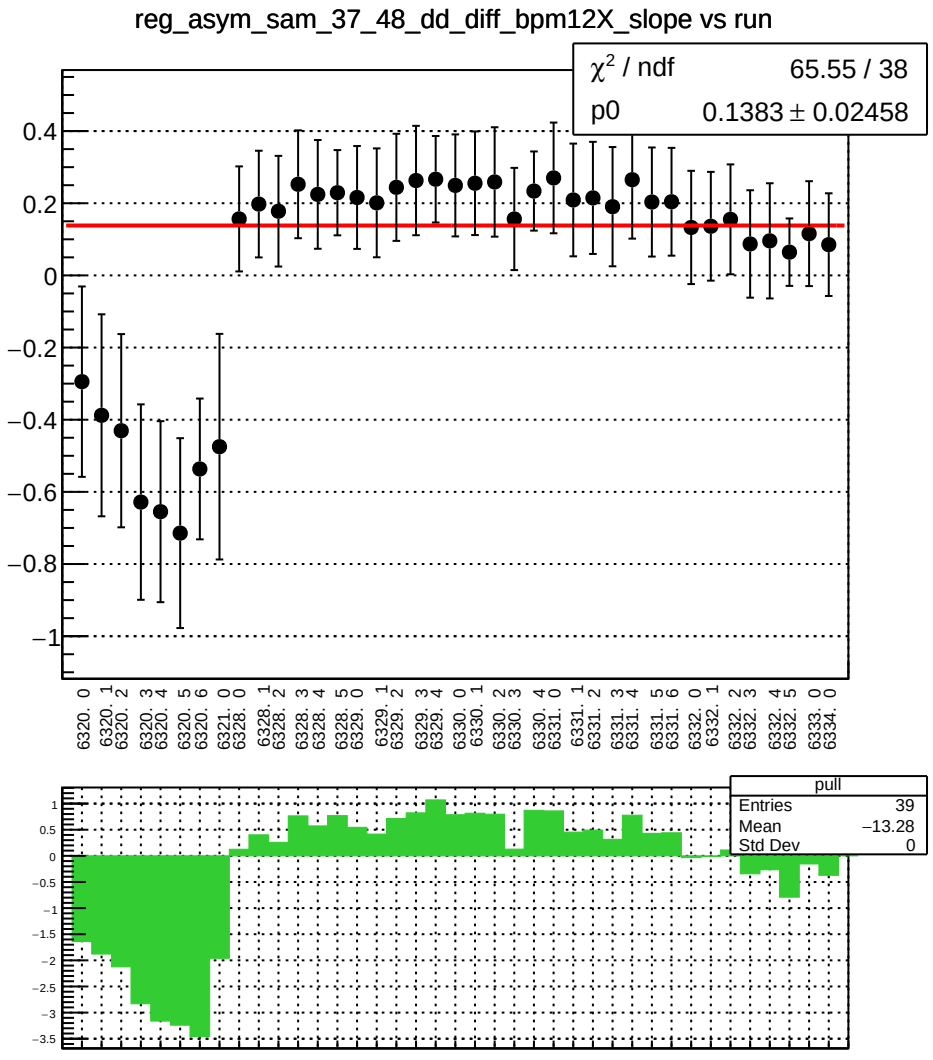

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.392 / 38
p0 0.1138 ± 0.03158
pull
Entries 39
Mean 13.12
Std Dev 23.11
pull1D
Entries 39
Mean −0.09592
Std Dev 0.4539

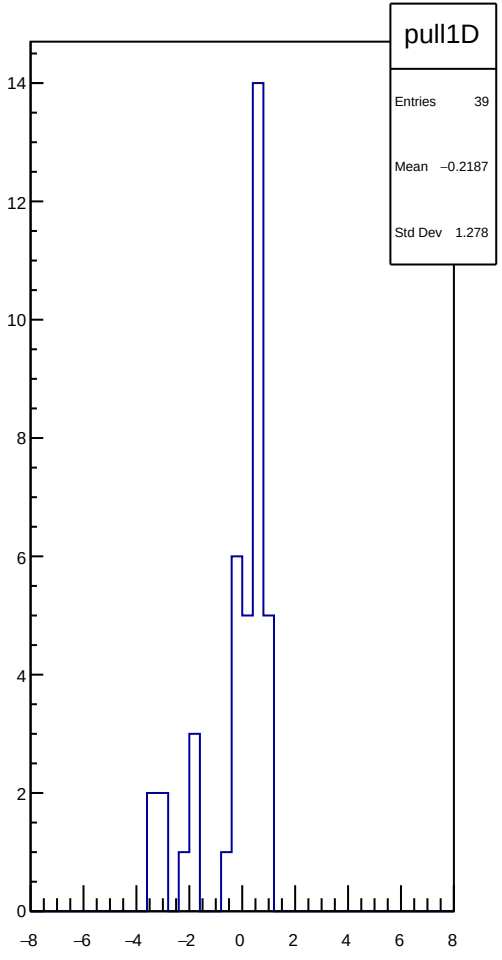

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 89.97 / 38
p0 1.452 ± 0.613
pull
Entries 39
Mean 132
Std Dev 0
pull1D
Entries 39
Mean 0.07874
Std Dev 1.517

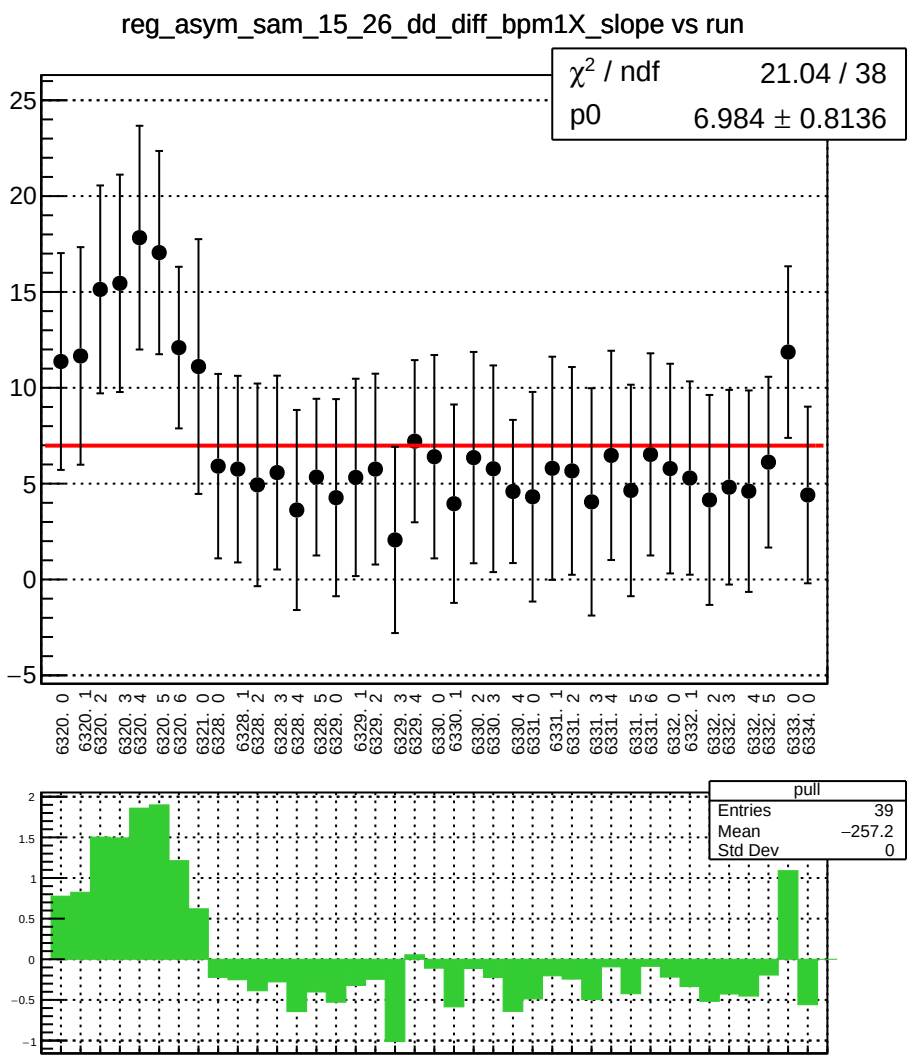

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.29 / 38
p0 11.02 ± 0.4477
pull
Entries 39
Mean 88.28
Std Dev 0
pull1D
Entries 39
Mean −0.05088
Std Dev 0.7371

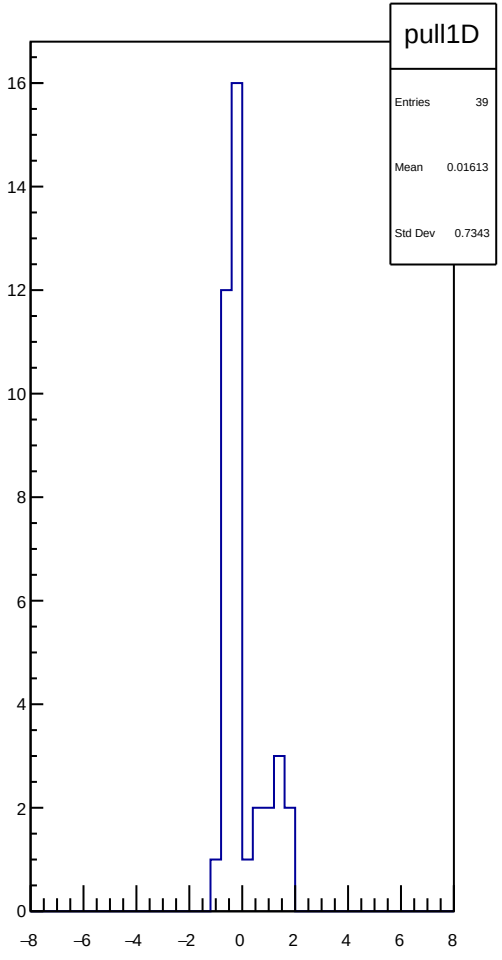

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.09 / 38
p0 17.45 ± 0.6418
35
30
25
20
15
10
5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 113.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.09237
Std Dev 1.525
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

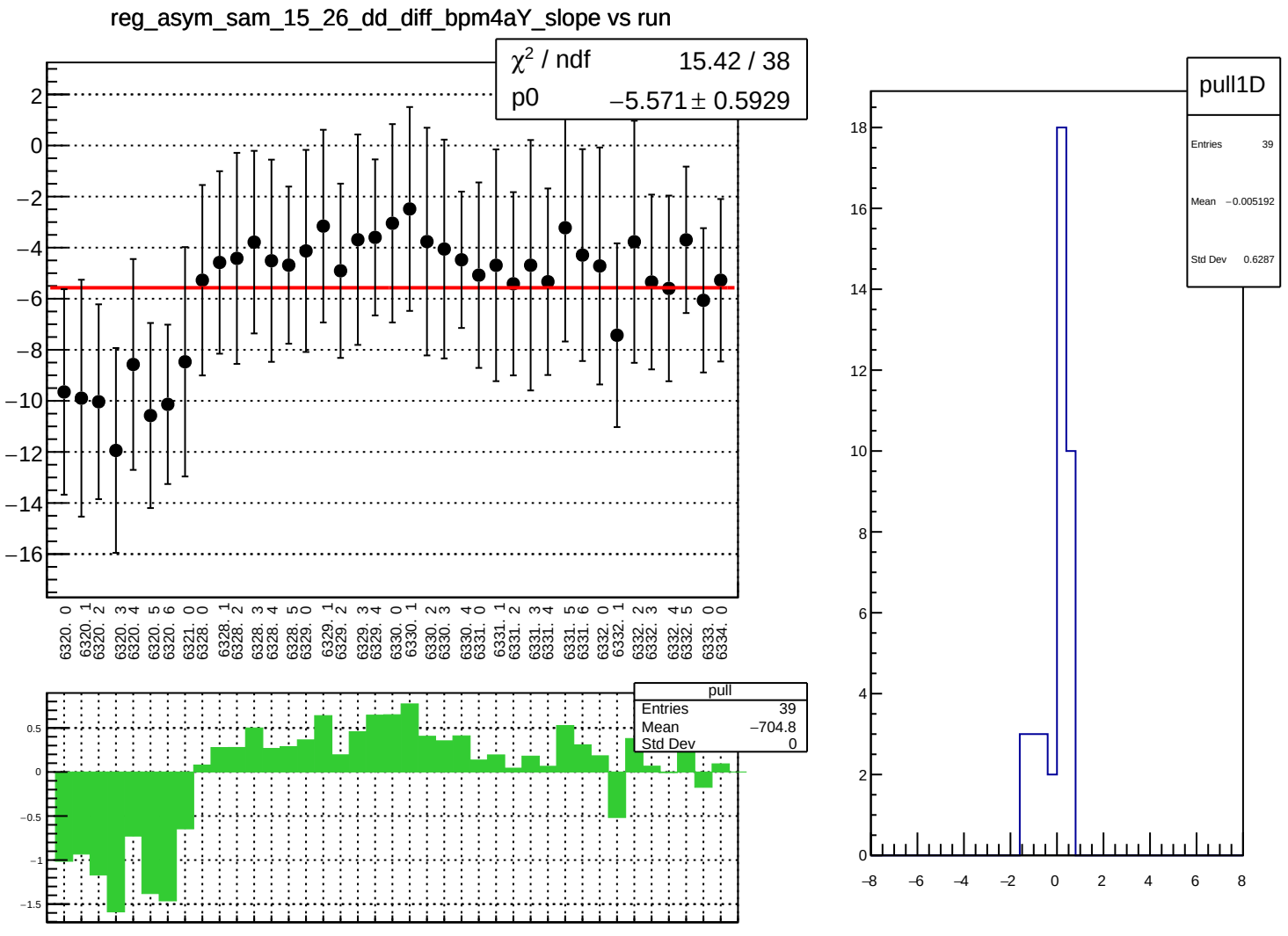

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.93 / 38
p0 −72.01 ± 0.4972
−62
−64
−66
−68
−70
−72
−74
−76
−78
−80
−82
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −163.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01253
Std Dev 0.7324
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

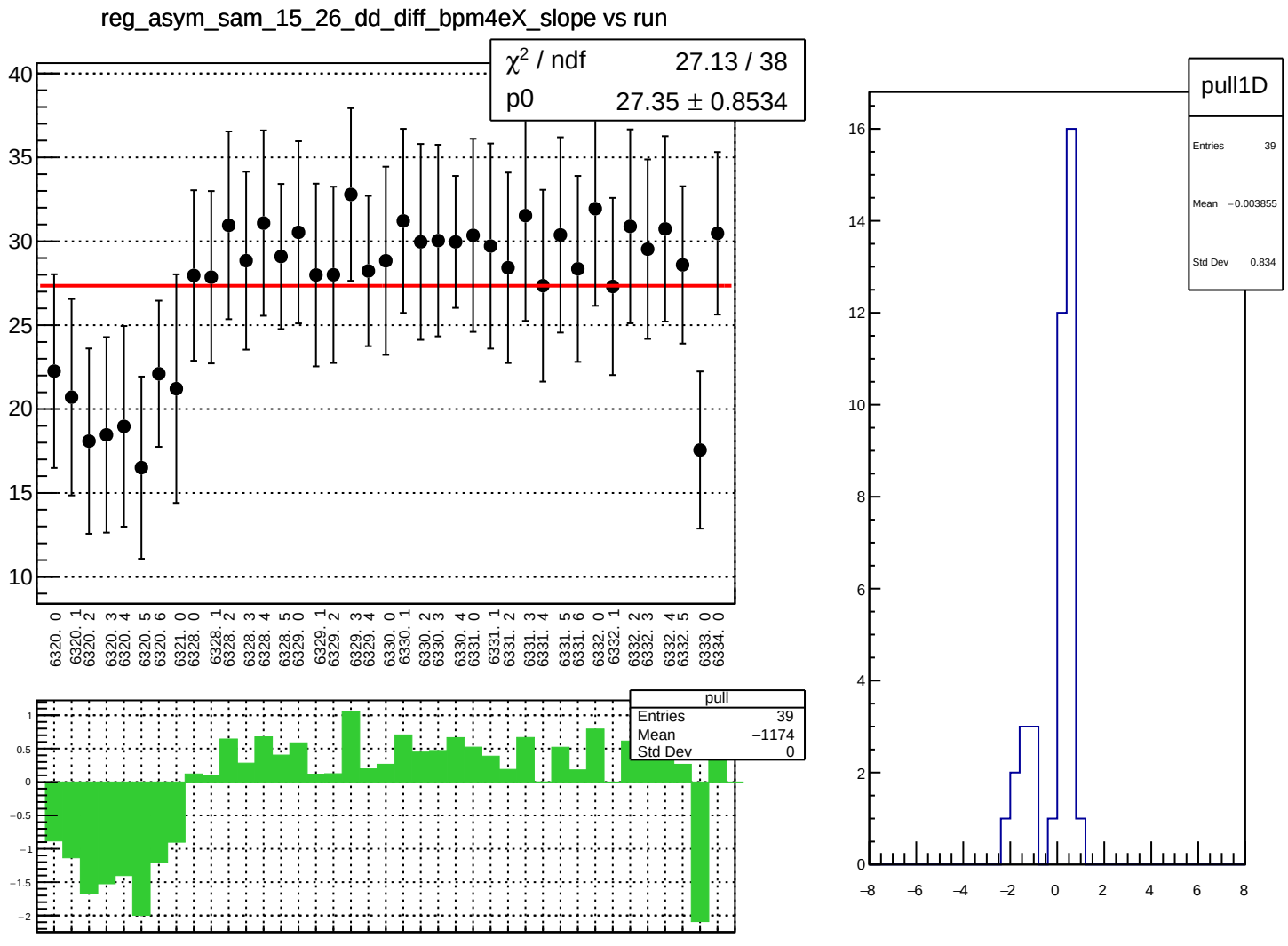

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 65.55 / 38
p0 0.1383 ± 0.02458
pull
Entries 39
Mean −13.28
Std Dev 0

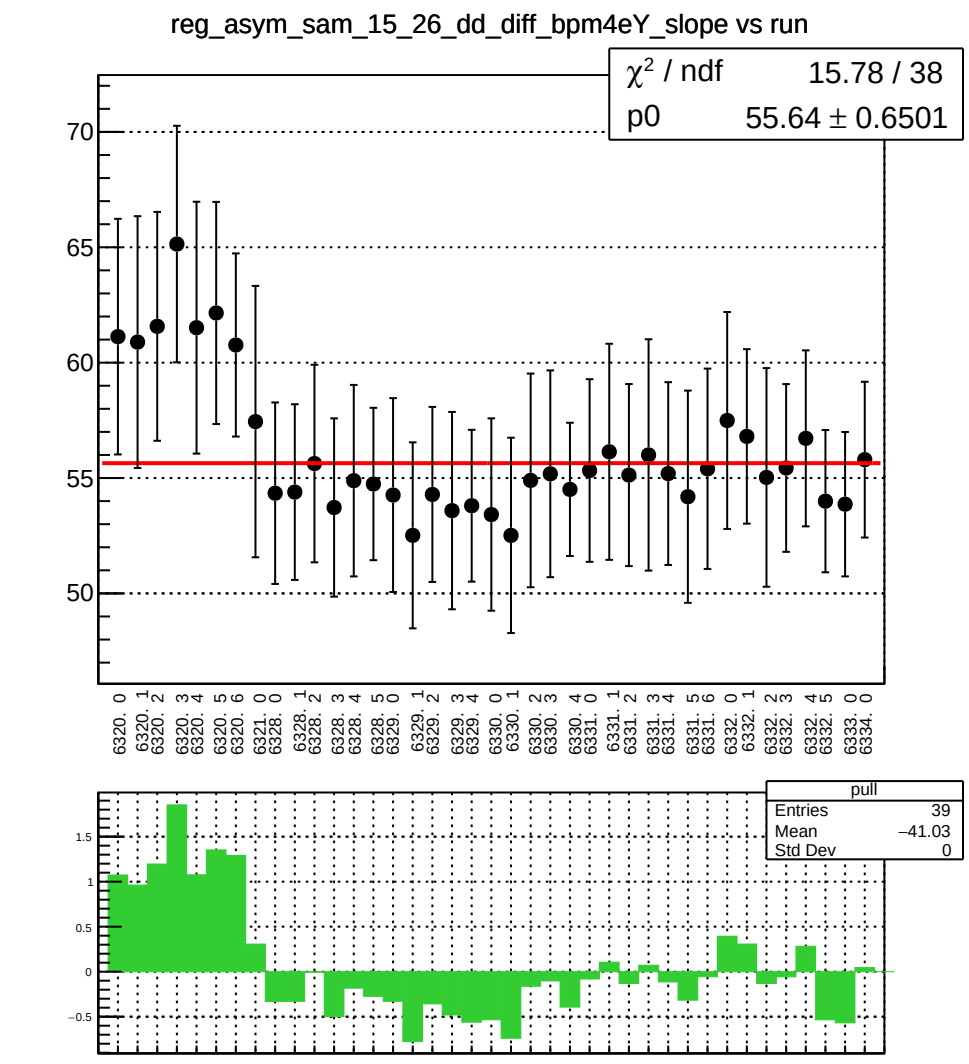

pull1D
Entries 39
Mean −0.2187
Std Dev 1.278

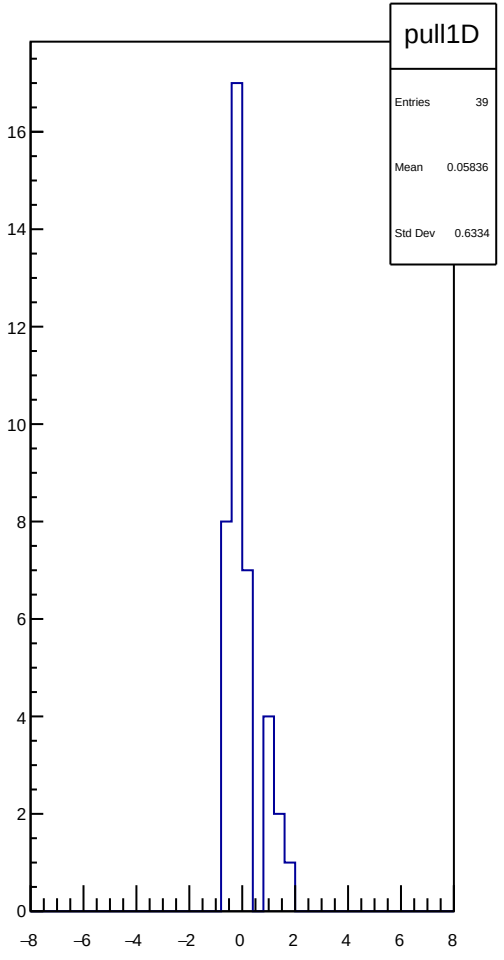

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 21.04 / 38
p0 6.984 ± 0.8136
pull
Entries 39
Mean −257.2
Std Dev 0

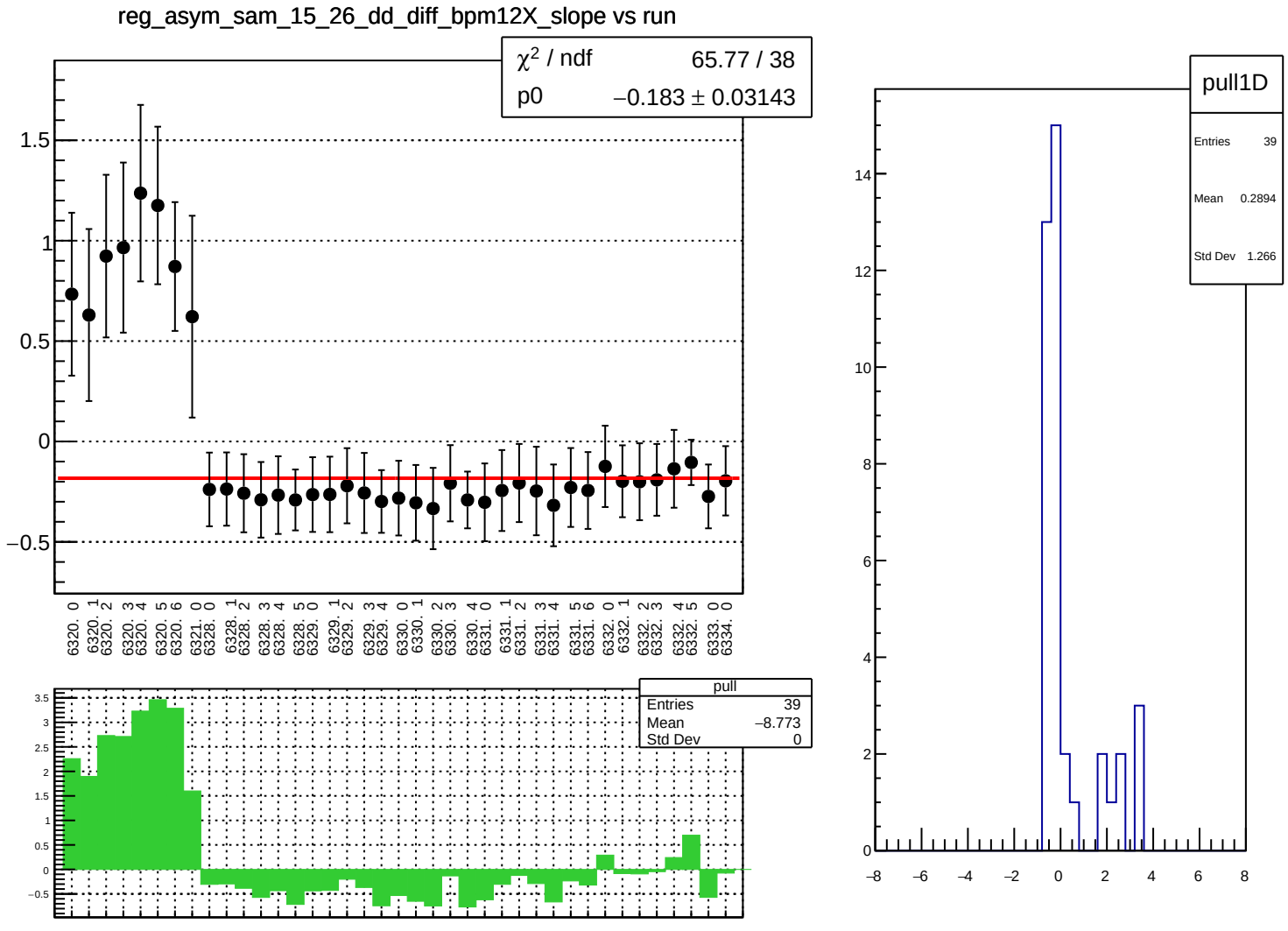

pull1D
Entries 39
Mean 0.01613
Std Dev 0.7343

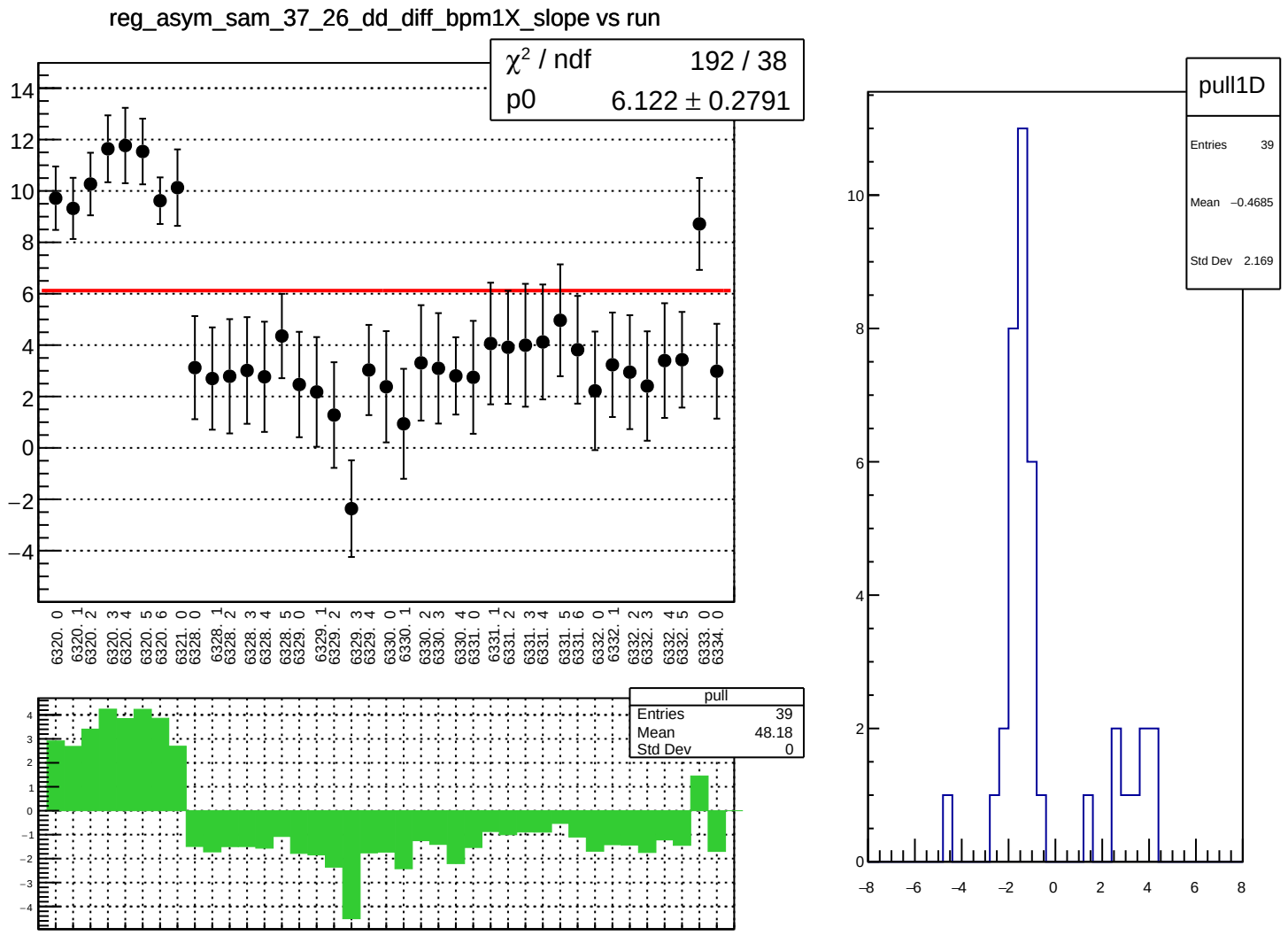

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.42 / 38
p0 −5.571 ± 0.5929
pull
Entries 39
Mean −704.8
Std Dev 0
pull1D
Entries 39
Mean −0.005192
Std Dev 0.6287

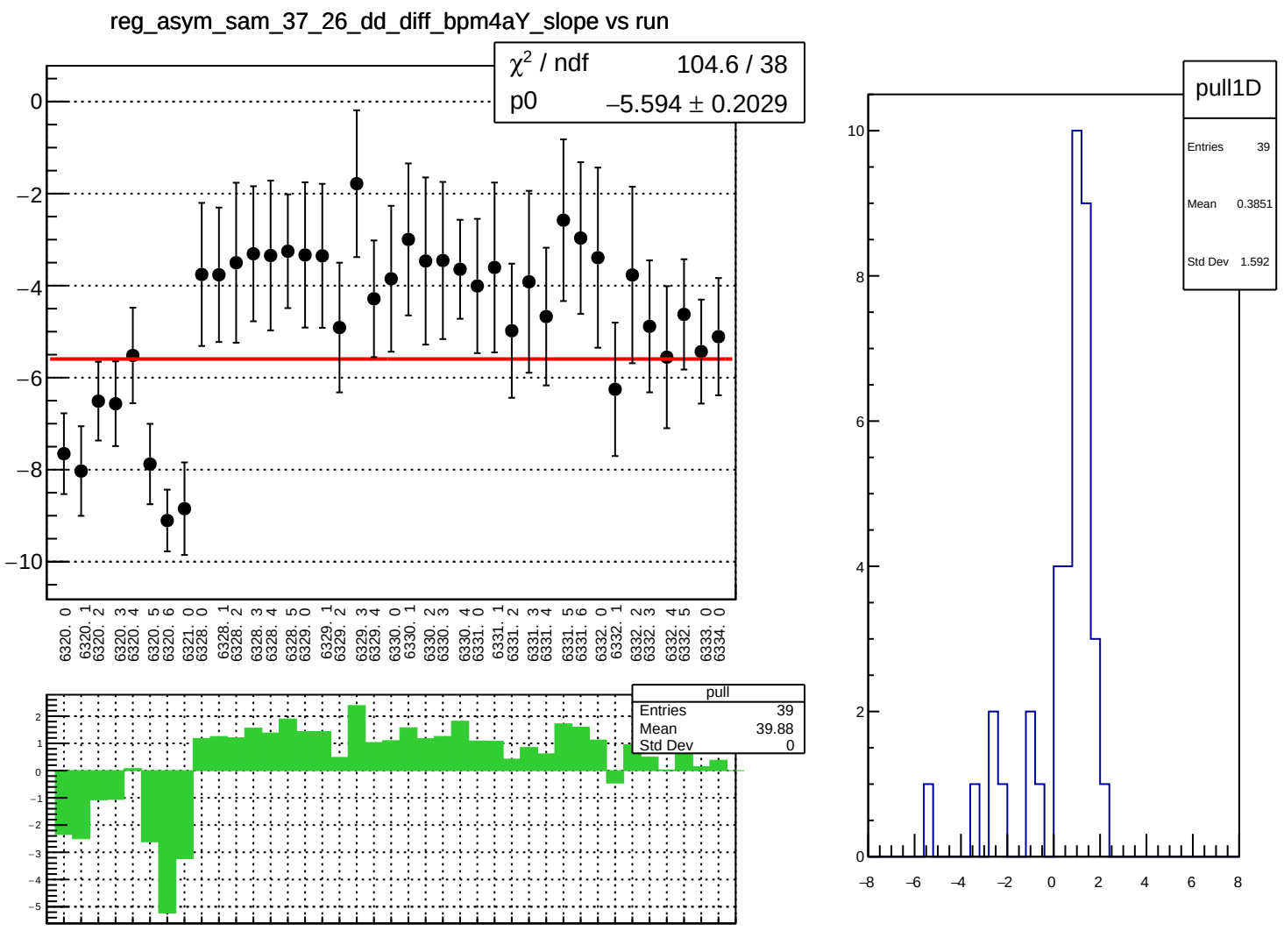

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.13 / 38
p0 27.35 ± 0.8534
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1174
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.003855
Std Dev 0.834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

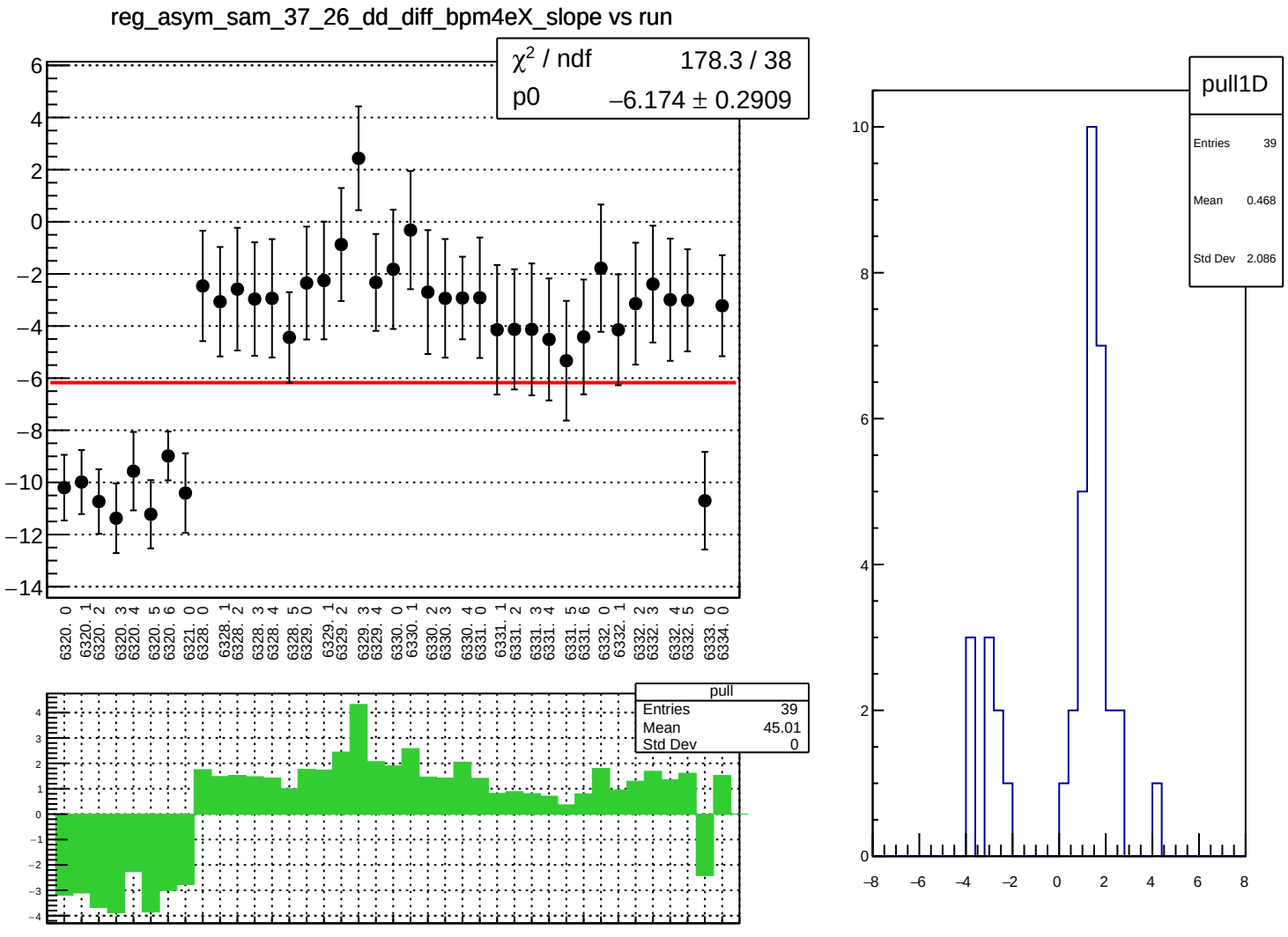

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.78 / 38
p0 55.64 ± 0.6501
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −41.03
Std Dev 0
1.5
1
0.5
0
−0.5

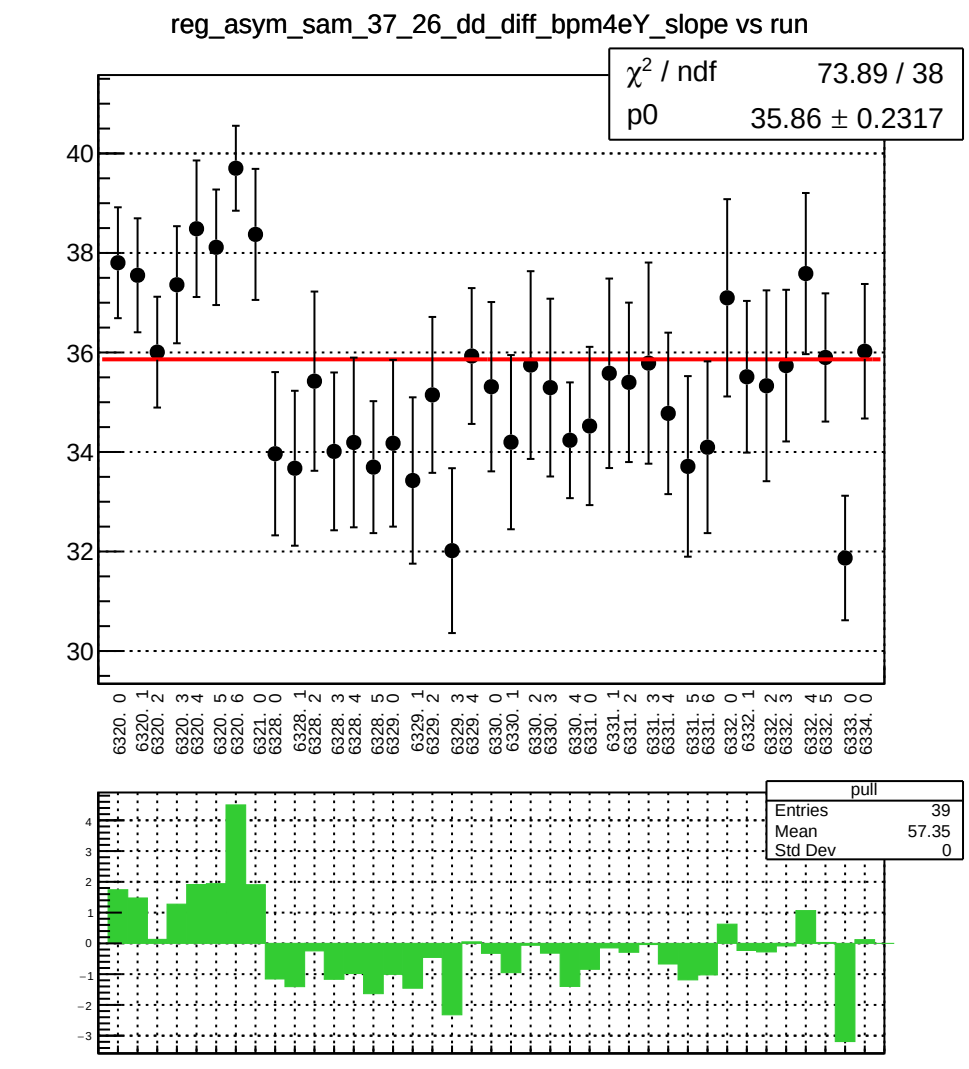

pull1D
Entries 39
Mean 0.05836
Std Dev 0.6334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

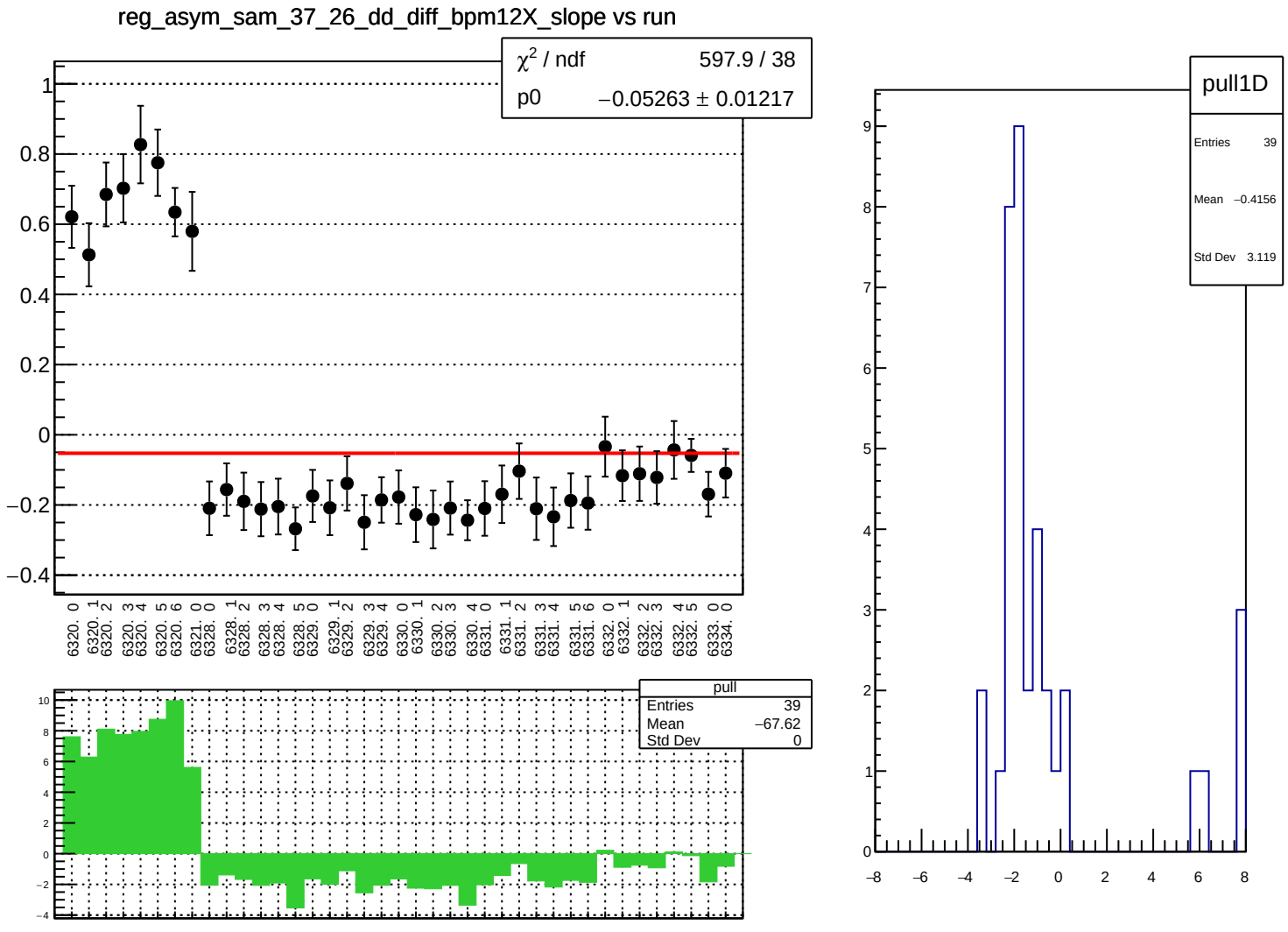

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 65.77 / 38
p0 −0.183 ± 0.03143
1.5
1
0.5
0
−0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −8.773
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean 0.2894
Std Dev 1.266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

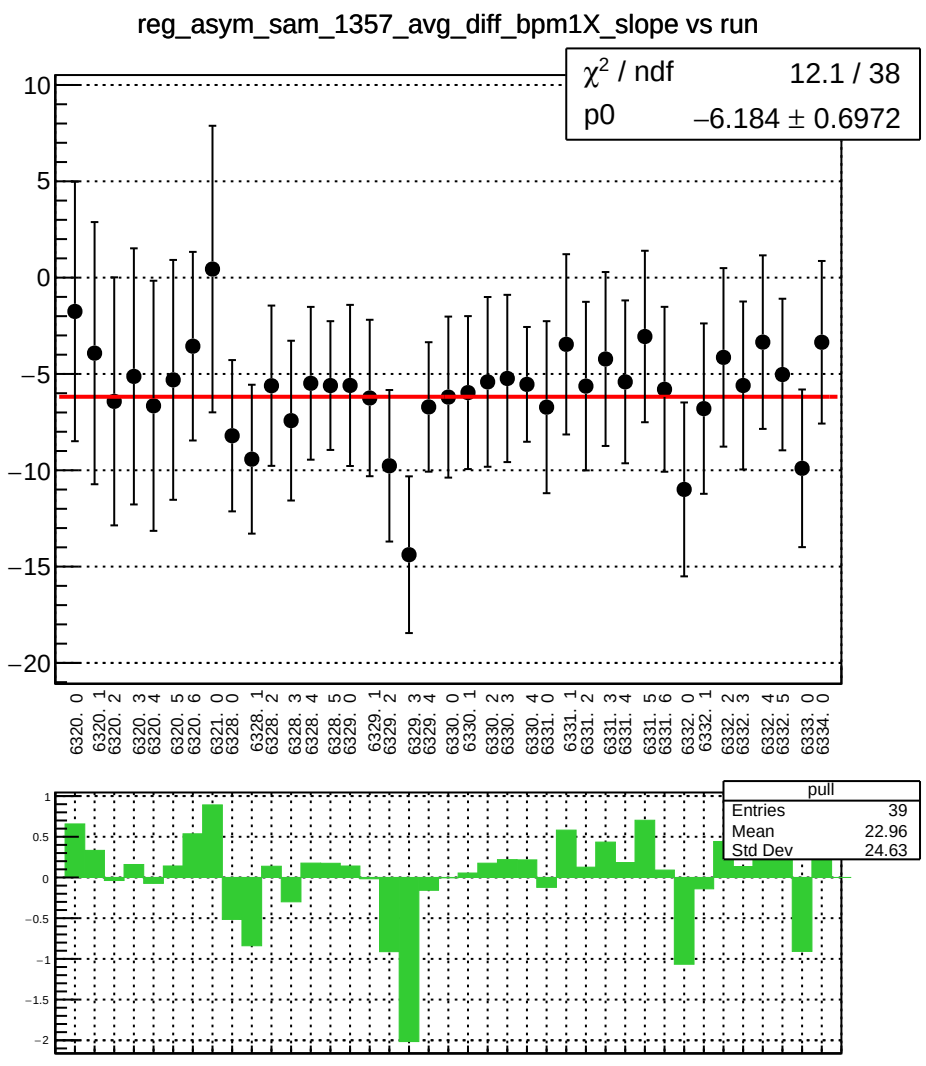

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 192 / 38
p0 6.122 ± 0.2791
pull
Entries 39
Mean 48.18
Std Dev 0
pull1D
Entries 39
Mean −0.4685
Std Dev 2.169

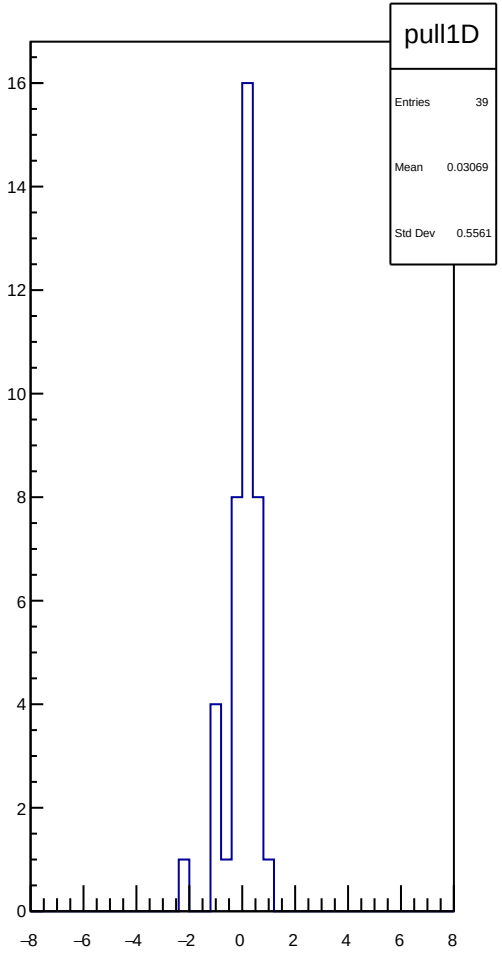

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.6 / 38
p0 −5.594 ± 0.2029
pull
Entries 39
Mean 39.88
Std Dev 0
pull1D
Entries 39
Mean 0.3851
Std Dev 1.592

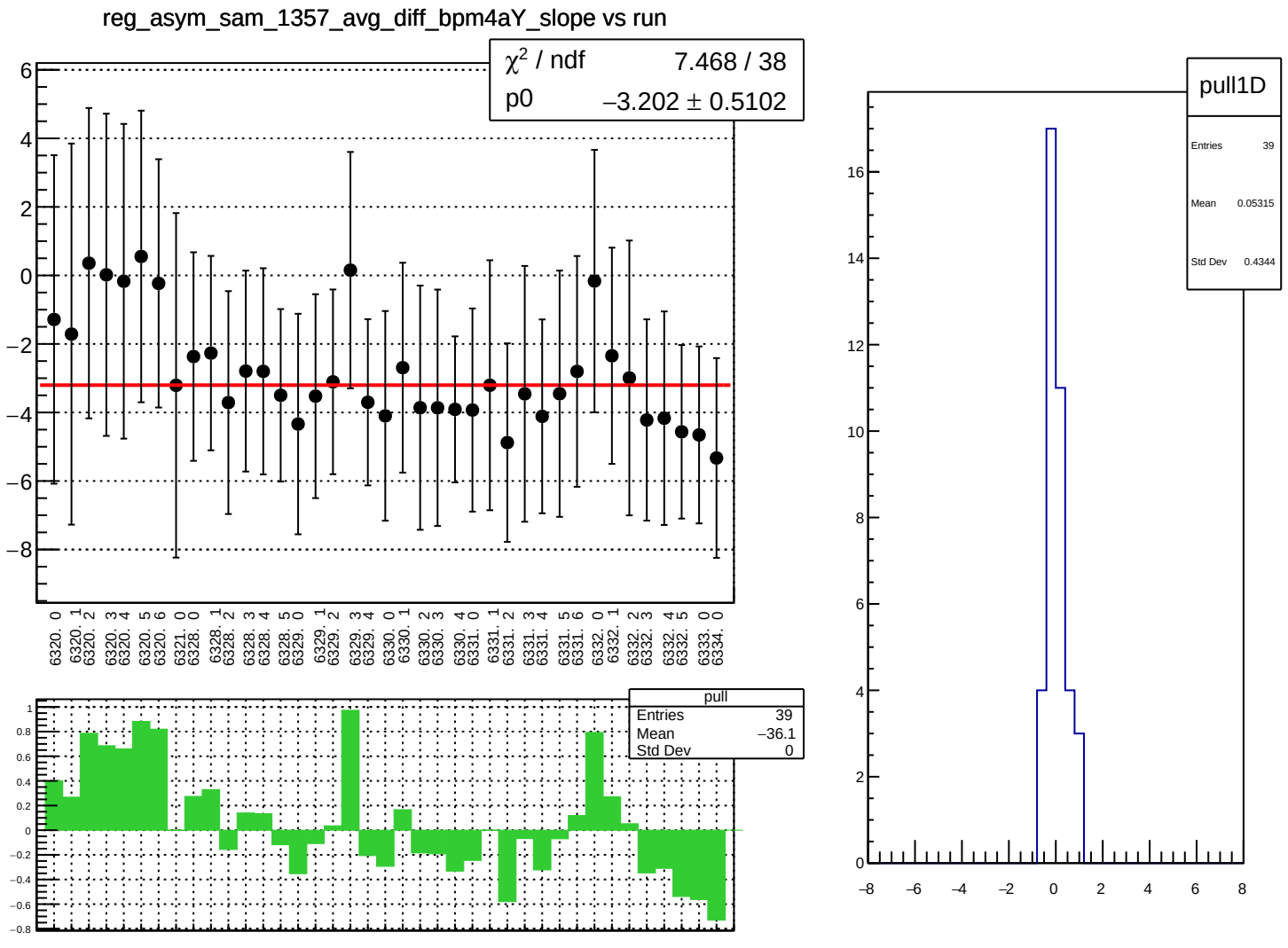

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 178.3 / 38
p0 −6.174 ± 0.2909
pull
Entries 39
Mean 45.01
Std Dev 0
pull1D
Entries 39
Mean 0.468
Std Dev 2.086

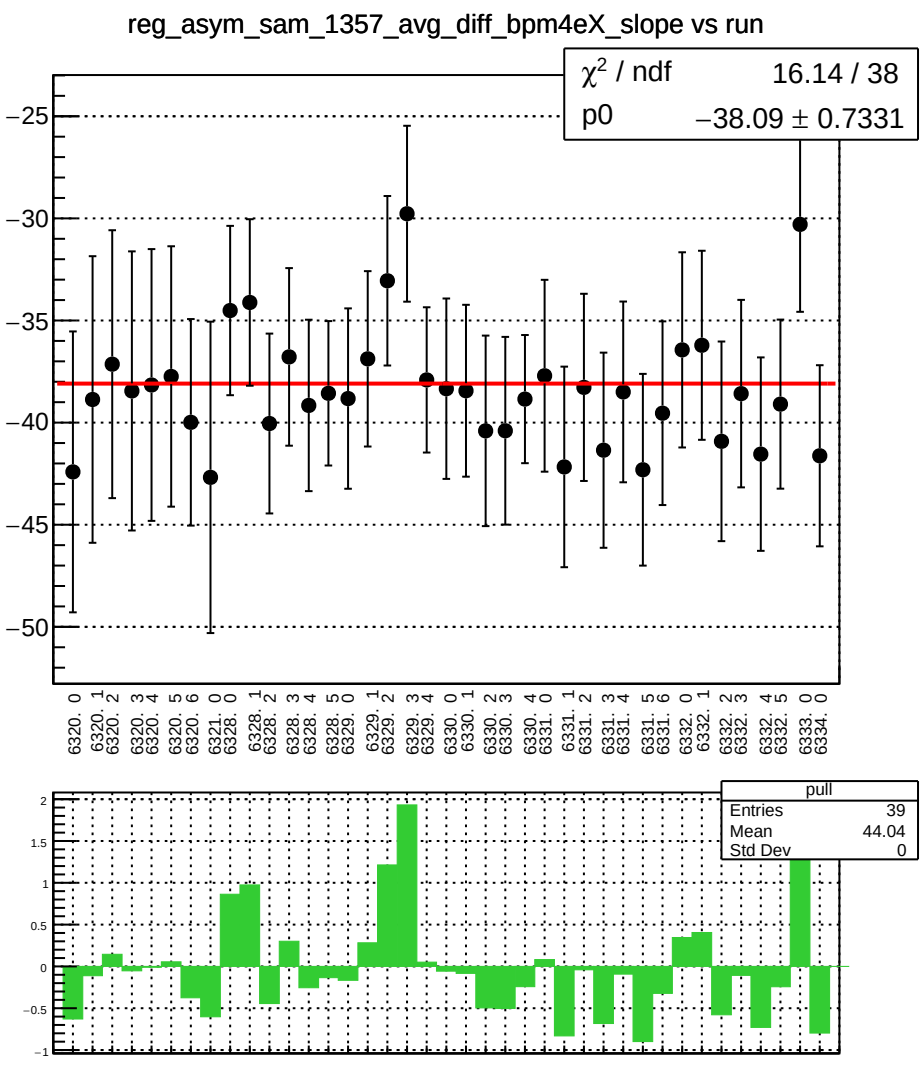

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.89 / 38
p0 35.86 ± 0.2317
40
38
36
34
32
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.35
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.1559
Std Dev 1.368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

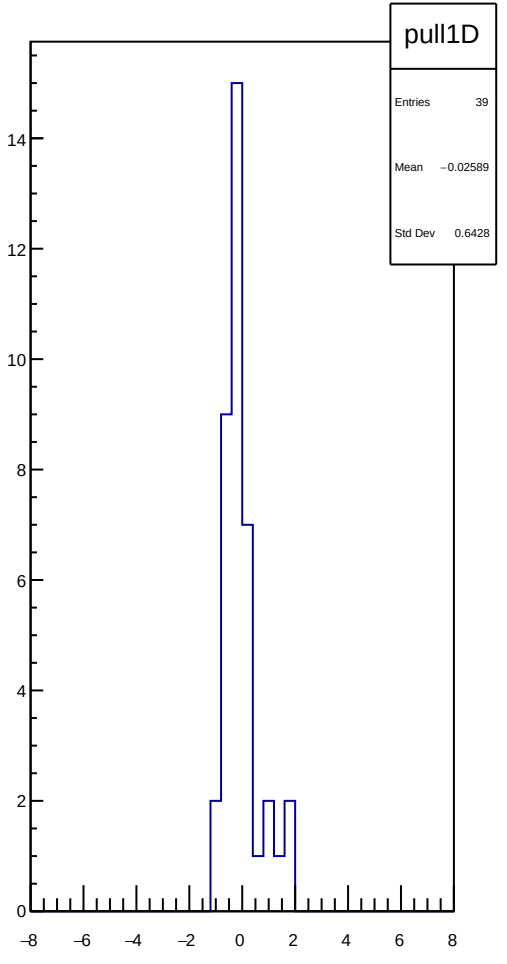

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 597.9 / 38
p0 −0.05263 ± 0.01217
pull
Entries 39
Mean −67.62
Std Dev 0
pull1D
Entries 39
Mean −0.4156
Std Dev 3.119

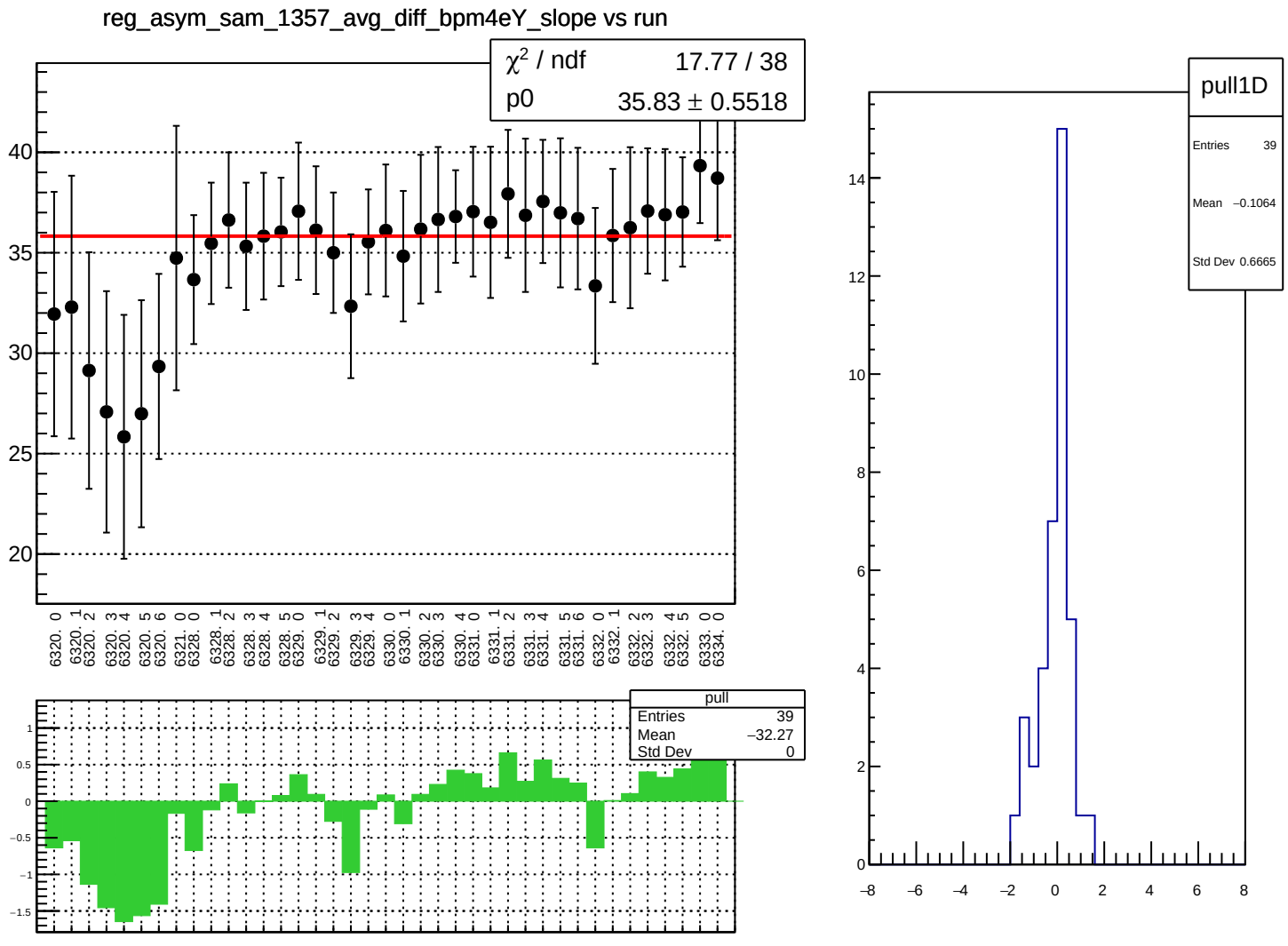

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 12.1 / 38
p0 −6.184 ± 0.6972
pull
Entries 39
Mean 22.96
Std Dev 24.63

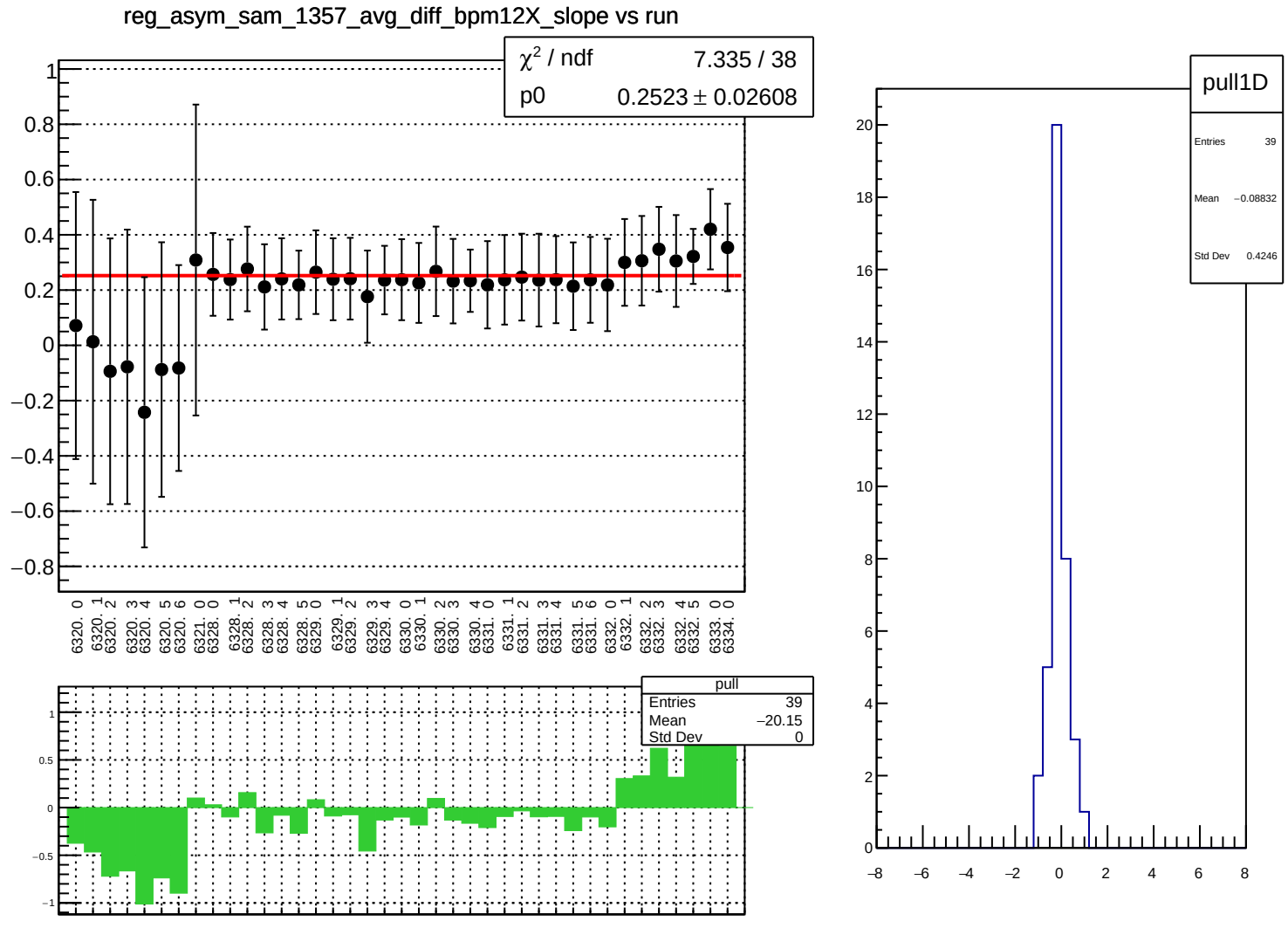

pull1D
Entries 39
Mean 0.03069
Std Dev 0.5561

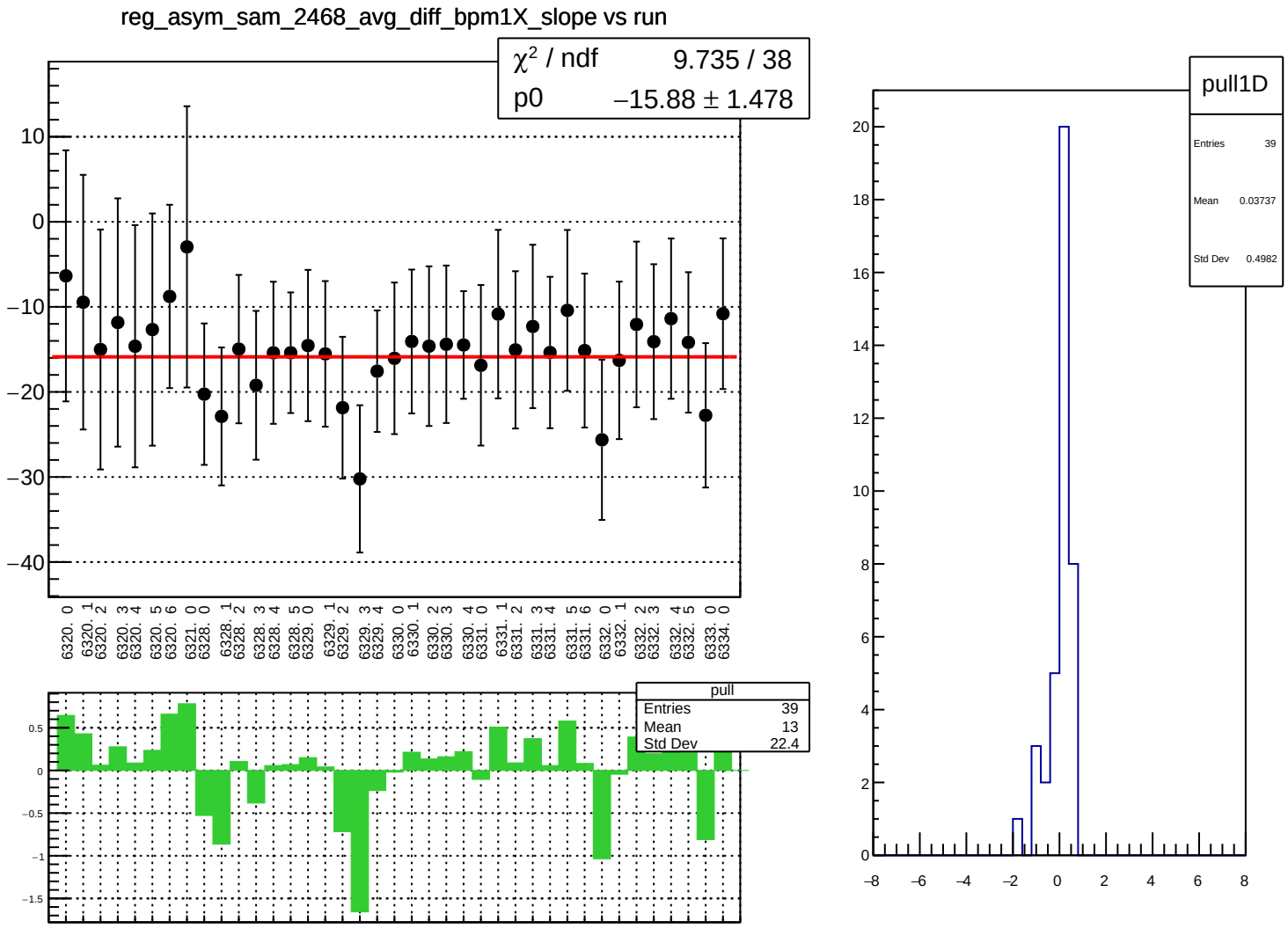

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.468 / 38
p0 −3.202 ± 0.5102
pull
Entries 39
Mean −36.1
Std Dev 0
pull1D
Entries 39
Mean 0.05315
Std Dev 0.4344

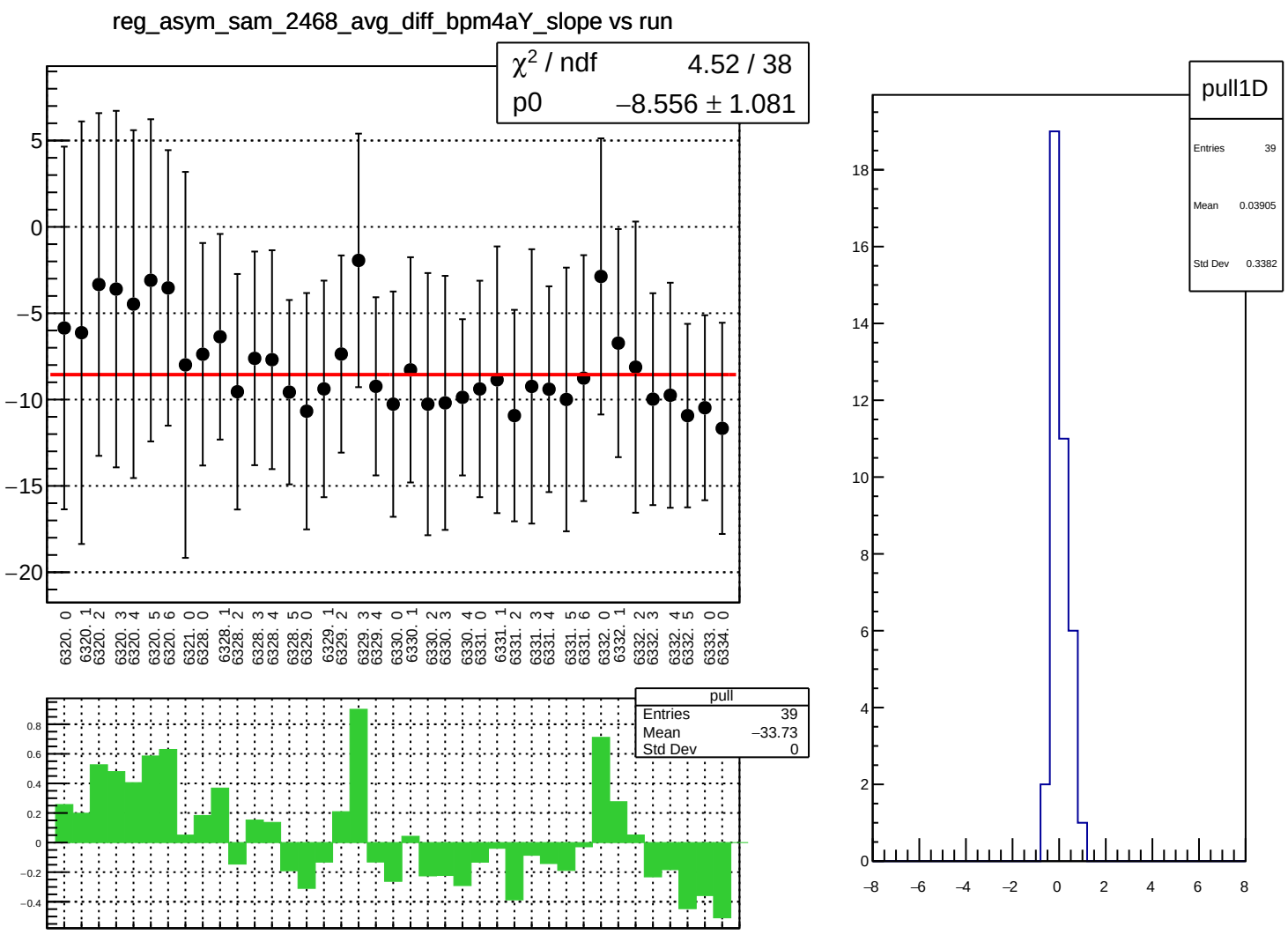

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.14 / 38
p0 −38.09 ± 0.7331
−25
−30
−35
−40
−45
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 44.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

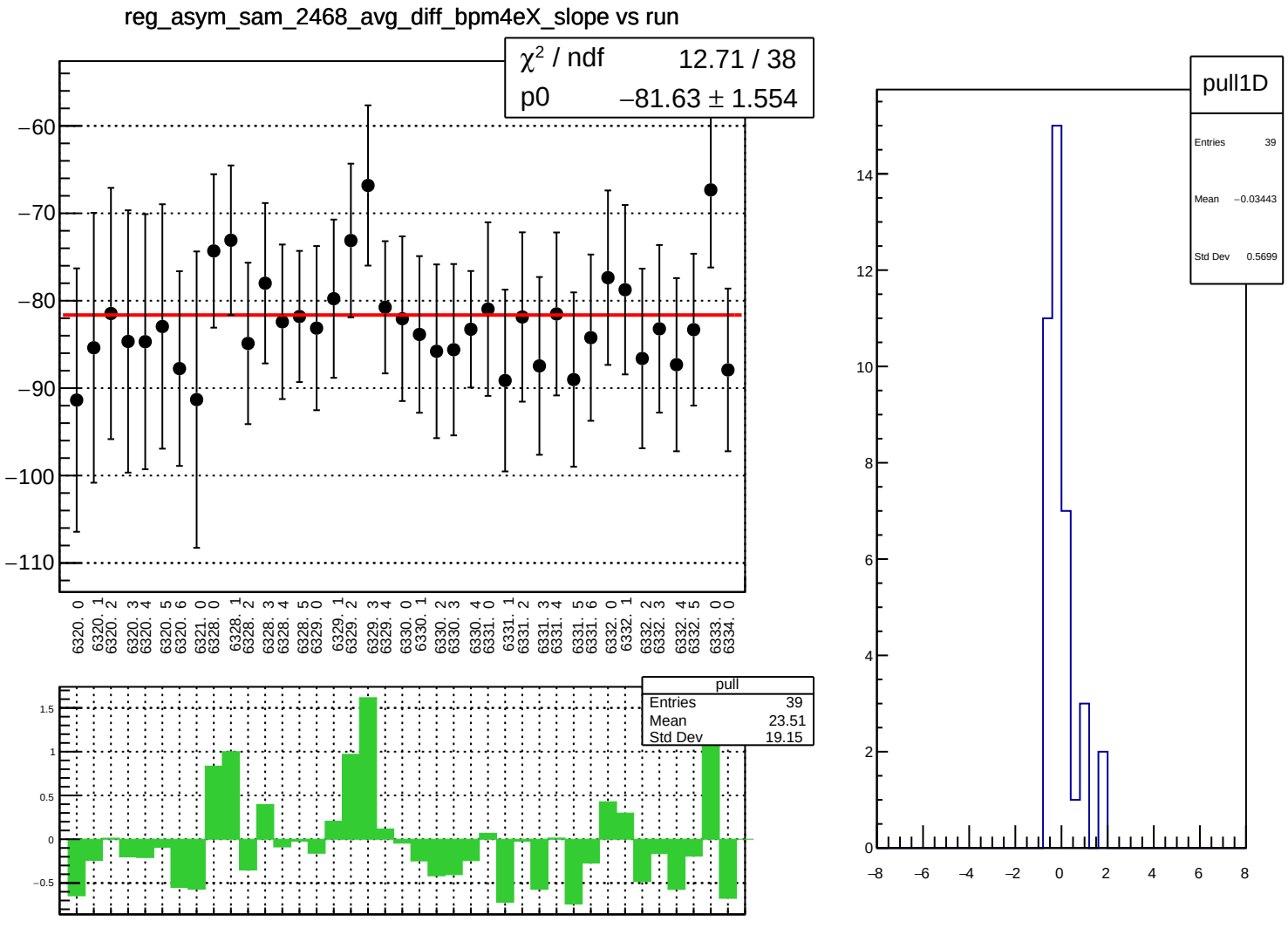

pull1D
Entries 39
Mean −0.02589
Std Dev 0.6428
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

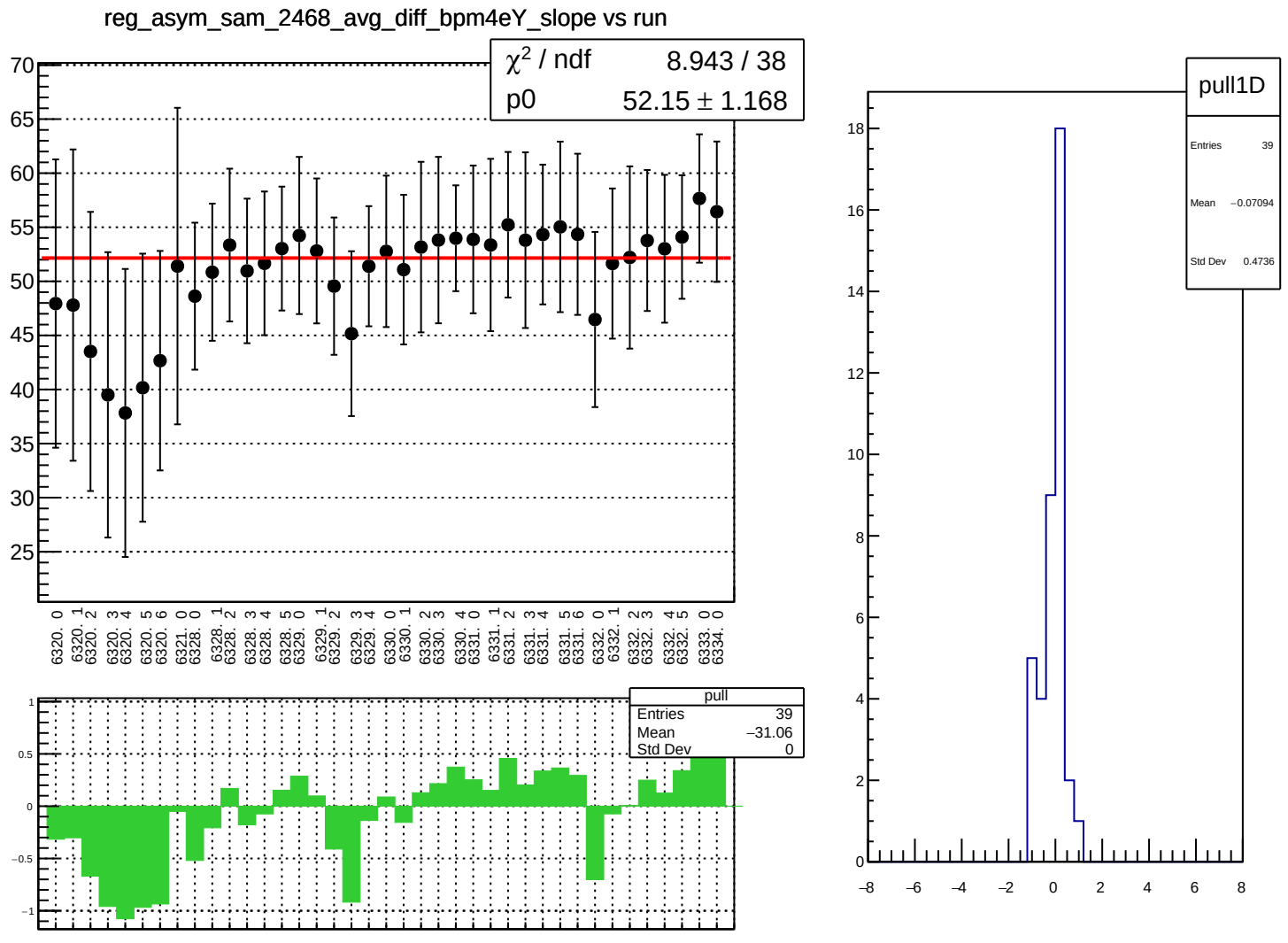

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.77 / 38
p0 35.83 ± 0.5518
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.1064
Std Dev 0.6665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

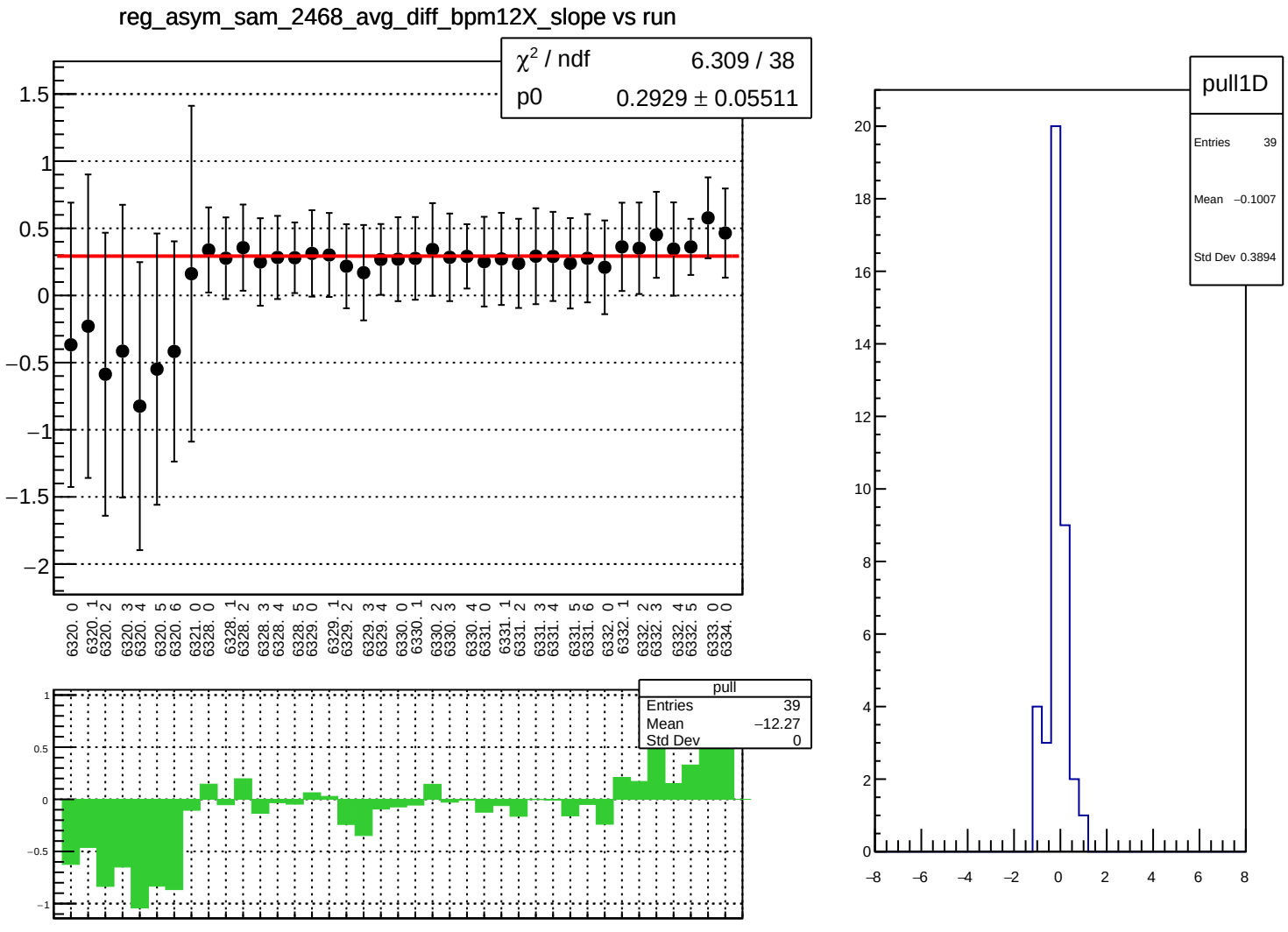

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.335 / 38
p0 0.2523 ± 0.02608
pull
Entries 39
Mean −20.15
Std Dev 0
pull1D
Entries 39
Mean −0.08832
Std Dev 0.4246

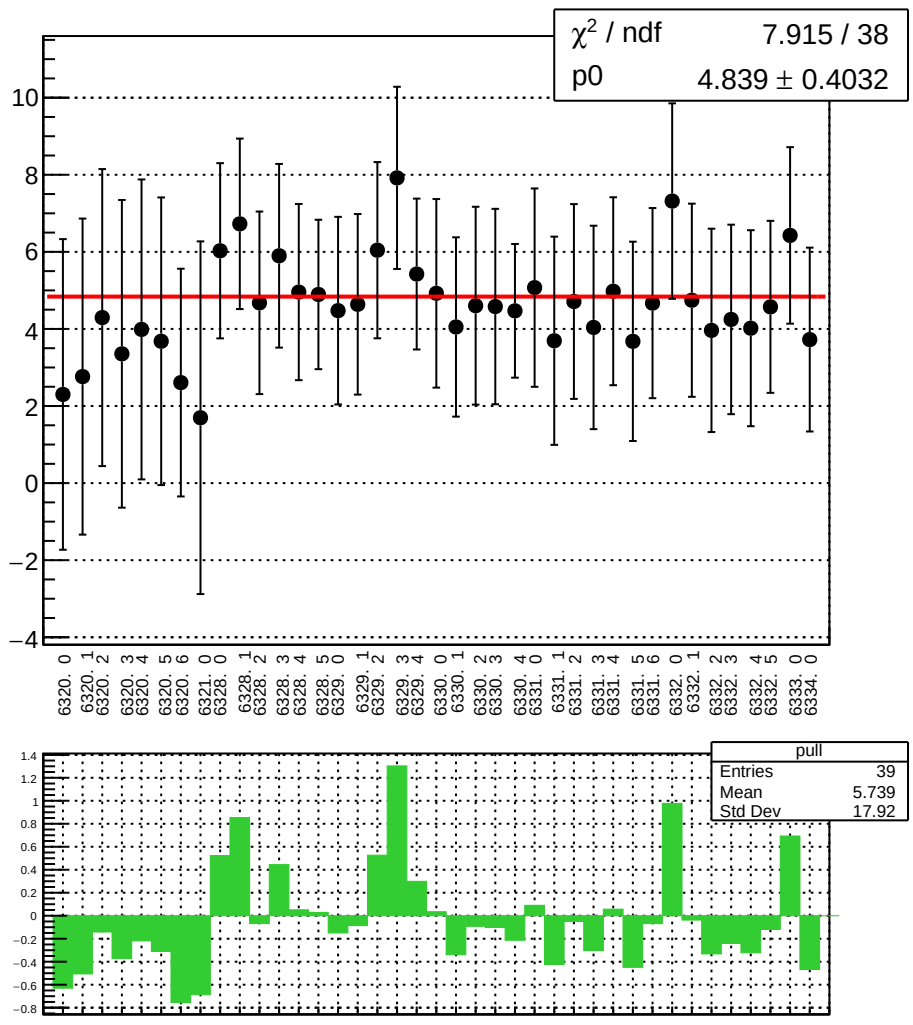

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 9.735 / 38
p0 −15.88 ± 1.478
pull
Entries 39
Mean 13
Std Dev 22.4
pull1D
Entries 39
Mean 0.03737
Std Dev 0.4982

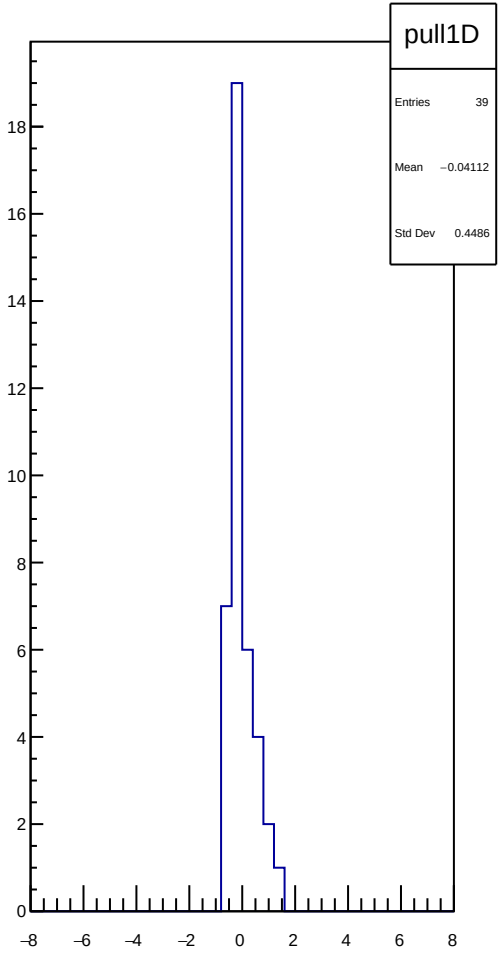

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.52 / 38
p0 −8.556 ± 1.081
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −33.73
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.03905
Std Dev 0.3382
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

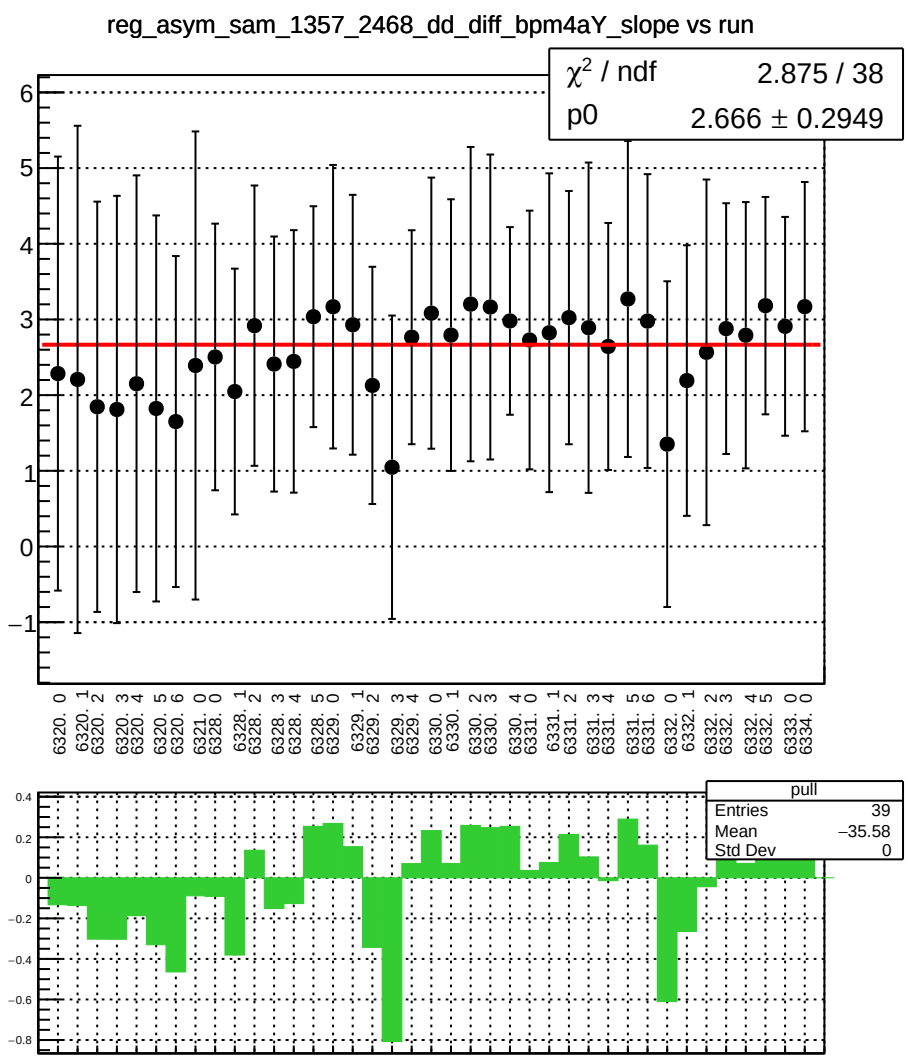

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.71 / 38
p0 −81.63 ± 1.554
−60
−70
−80
−90
−100
−110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.51
Std Dev 19.15
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.03443
Std Dev 0.5699
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

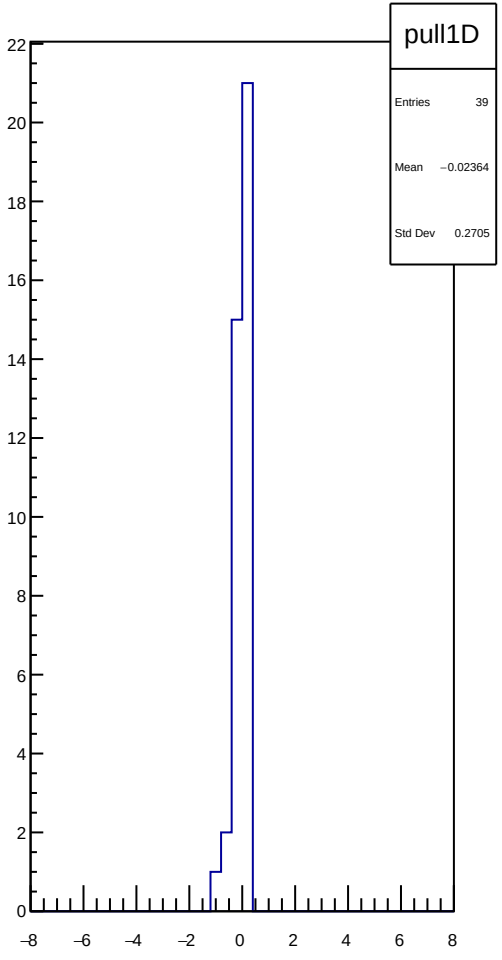

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.943 / 38
p0 52.15 ± 1.168
pull
Entries 39
Mean −31.06
Std Dev 0
pull1D
Entries 39
Mean −0.07094
Std Dev 0.4736

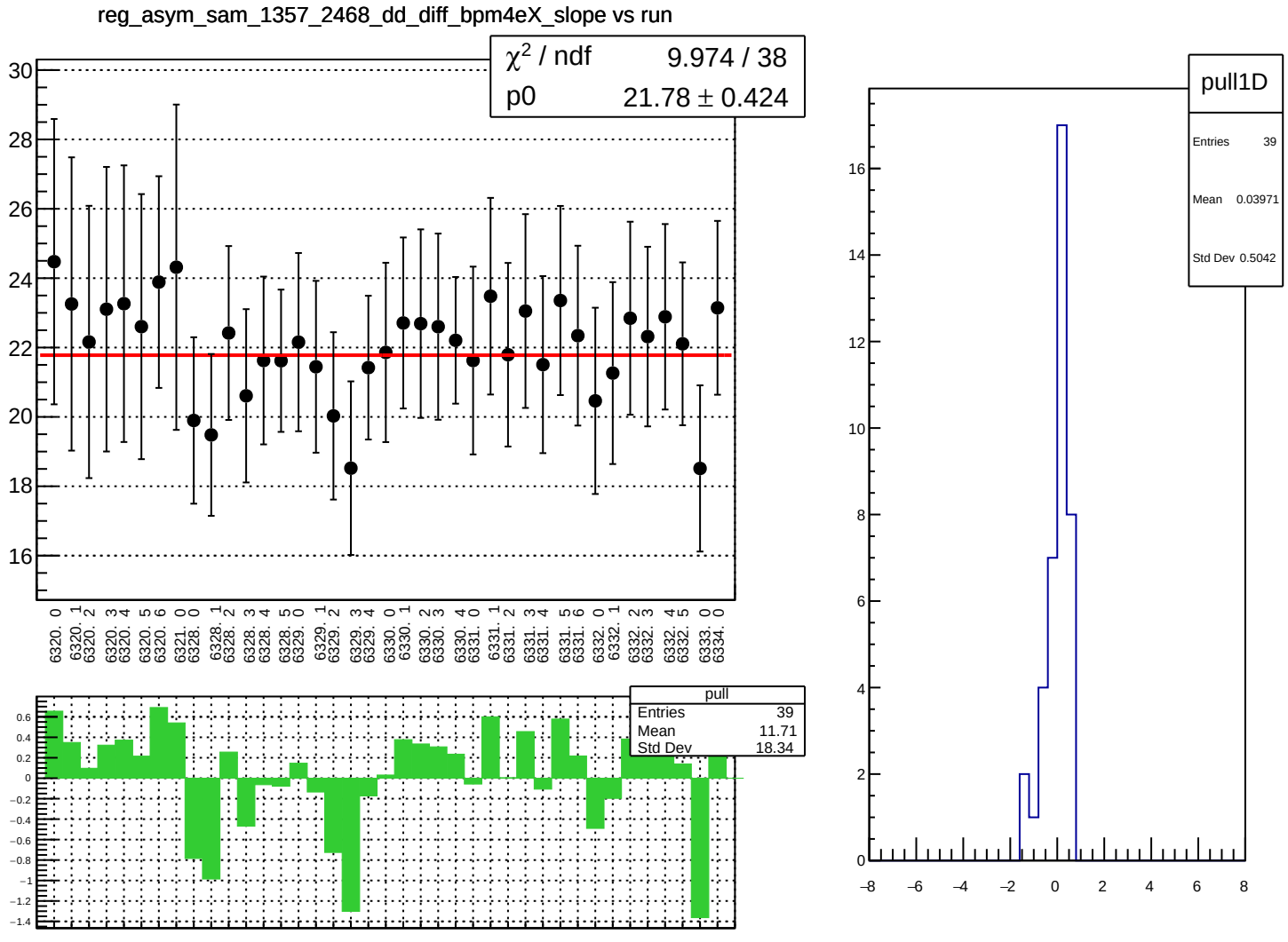

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 6.309 / 38
p0 0.2929 ± 0.05511
pull
Entries 39
Mean −12.27
Std Dev 0
pull1D
Entries 39
Mean −0.1007
Std Dev 0.3894

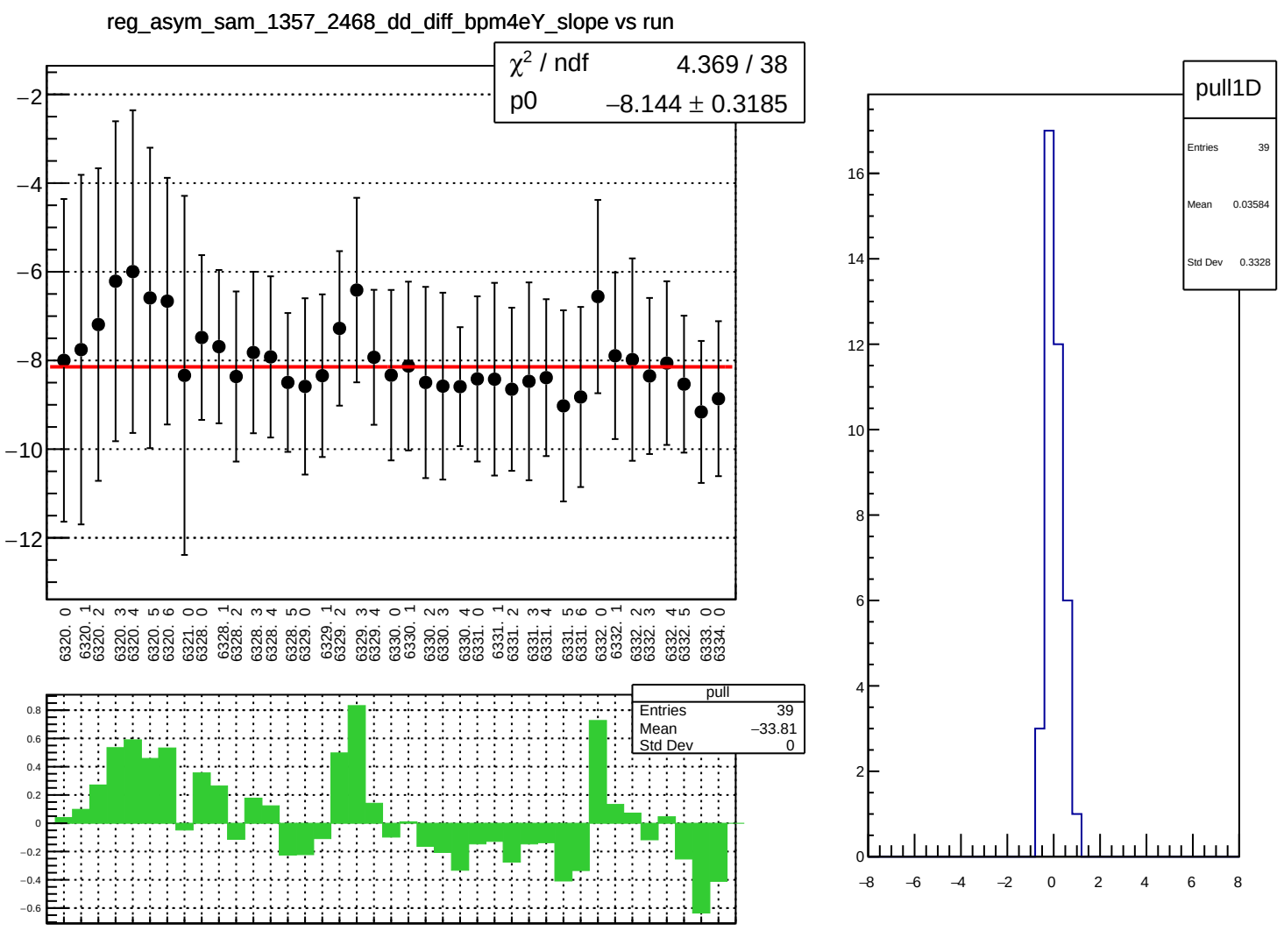

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 7.915 / 38
p0 4.839 ± 0.4032
pull
Entries 39
Mean 5.739
Std Dev 17.92

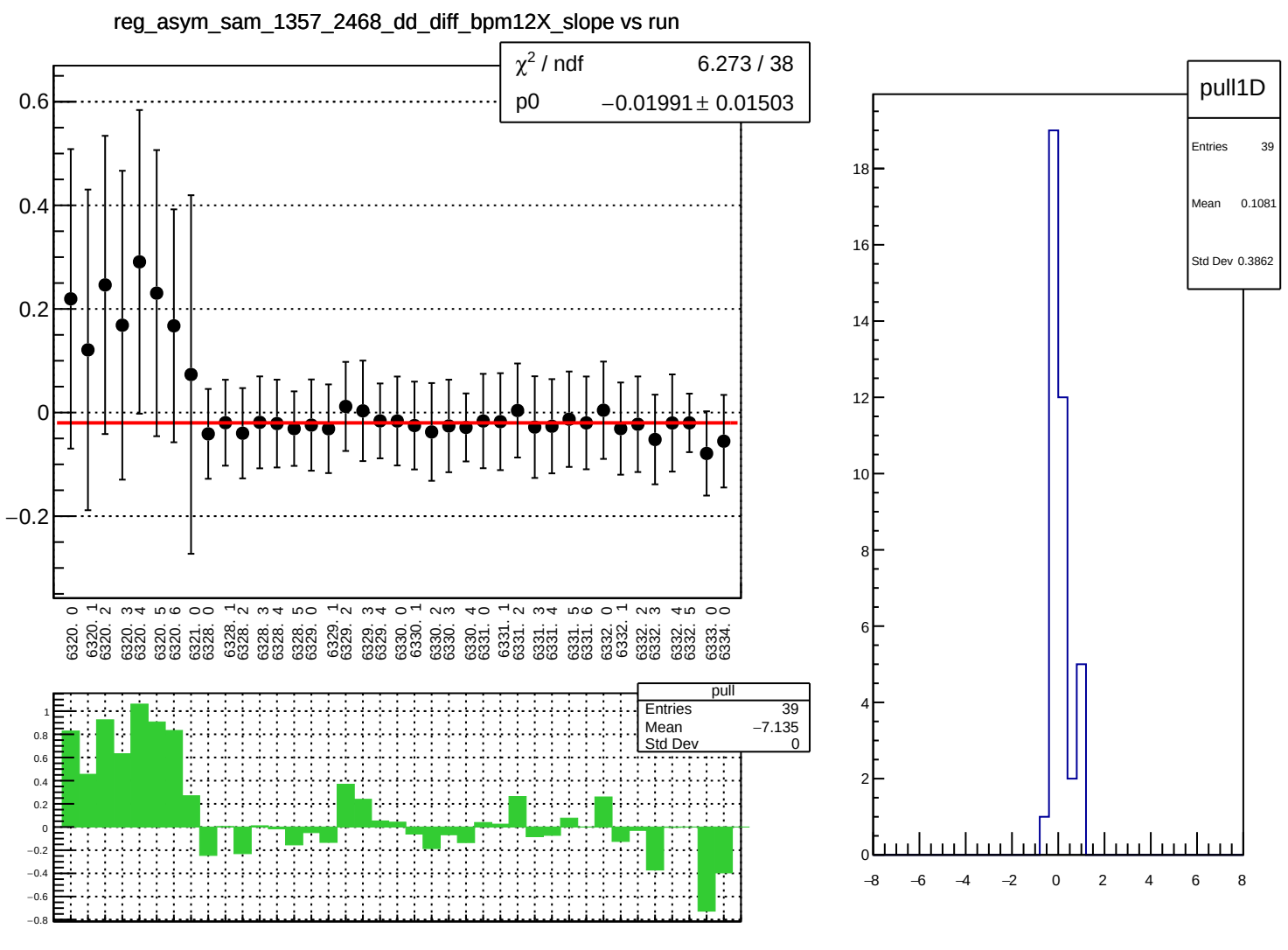

pull1D
Entries 39
Mean −0.04112
Std Dev 0.4486

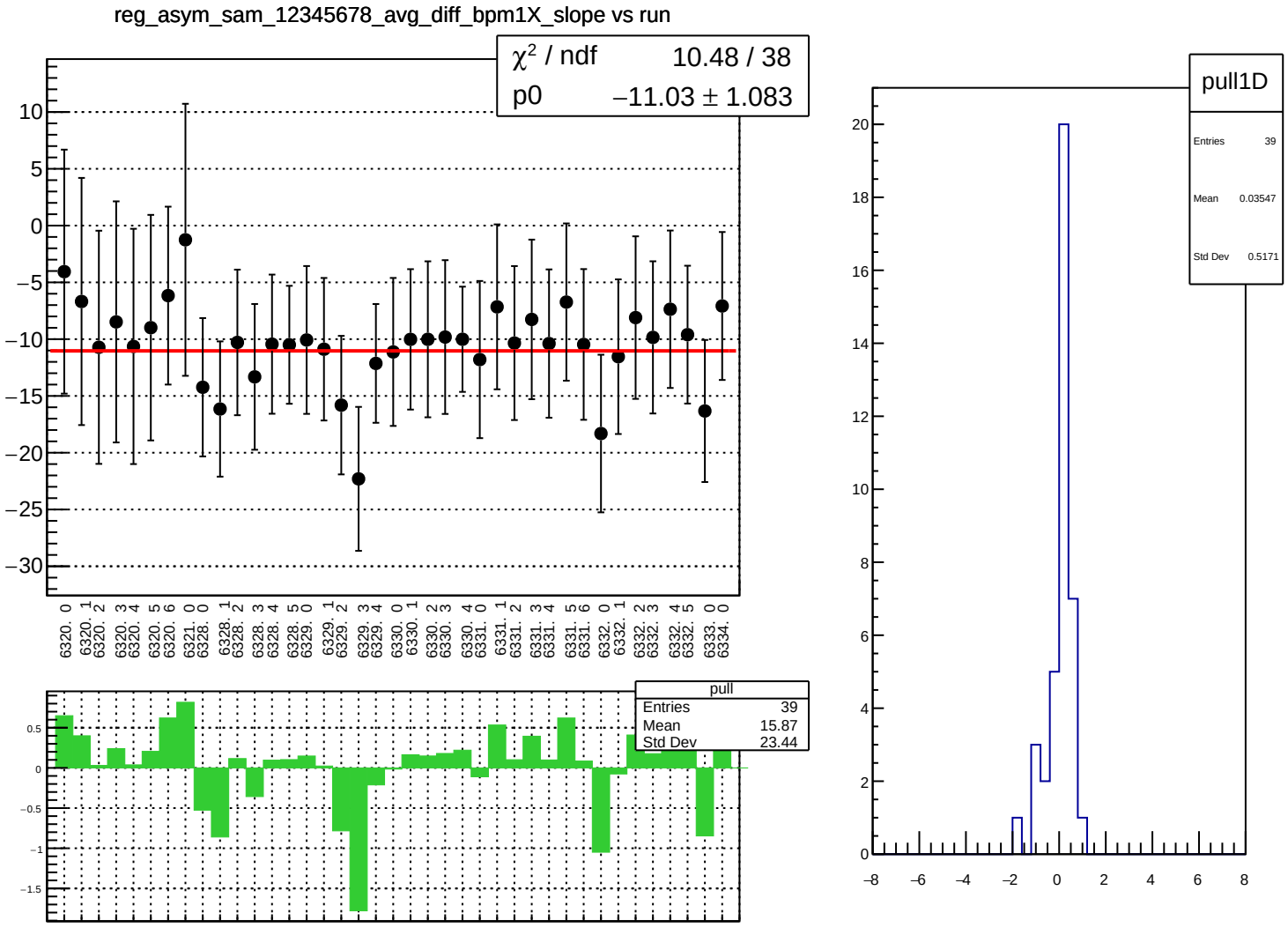

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.875 / 38
p0 2.666 ± 0.2949
pull
Entries 39
Mean −35.58
Std Dev 0

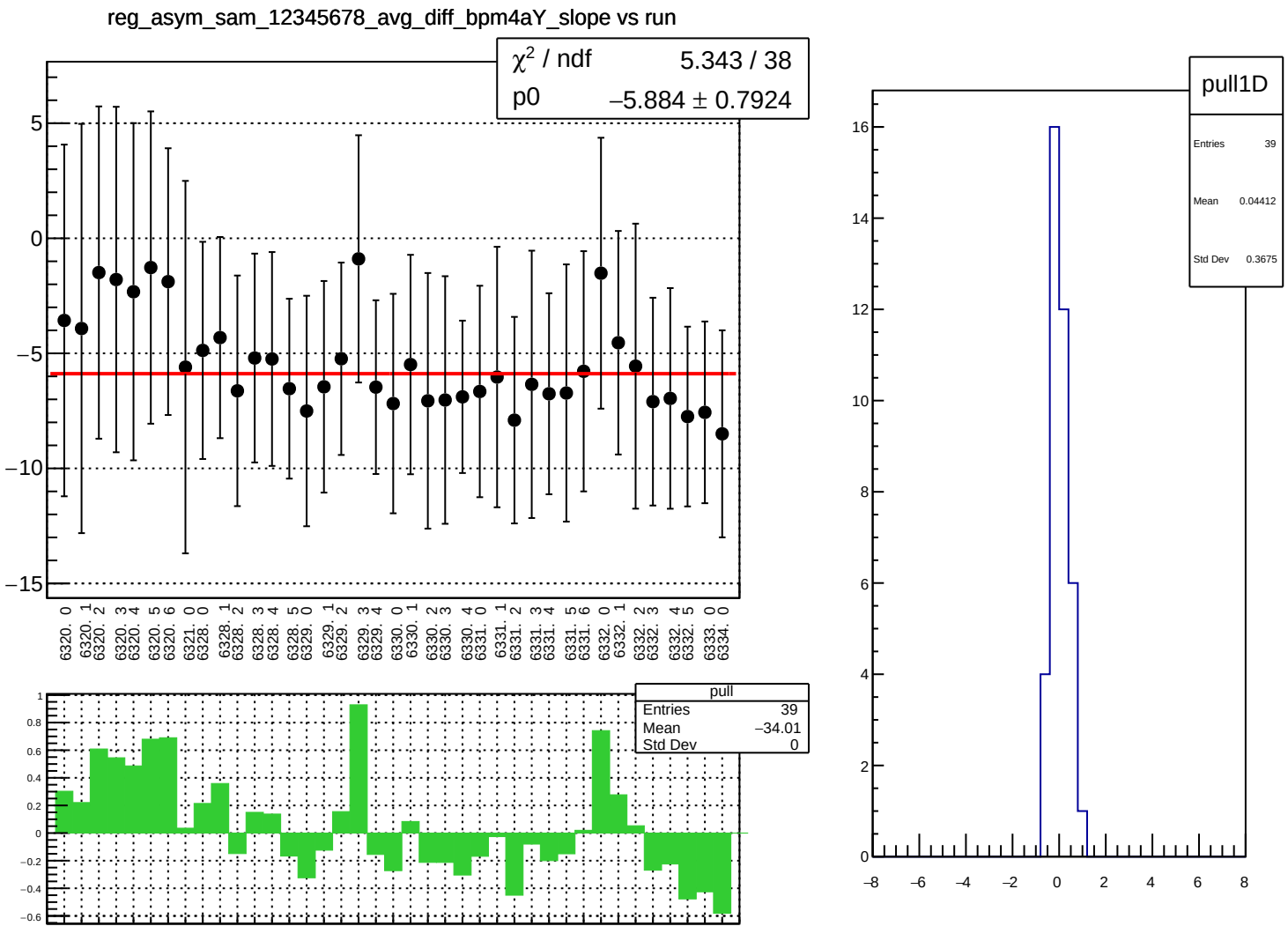

pull1D
Entries 39
Mean −0.02364
Std Dev 0.2705

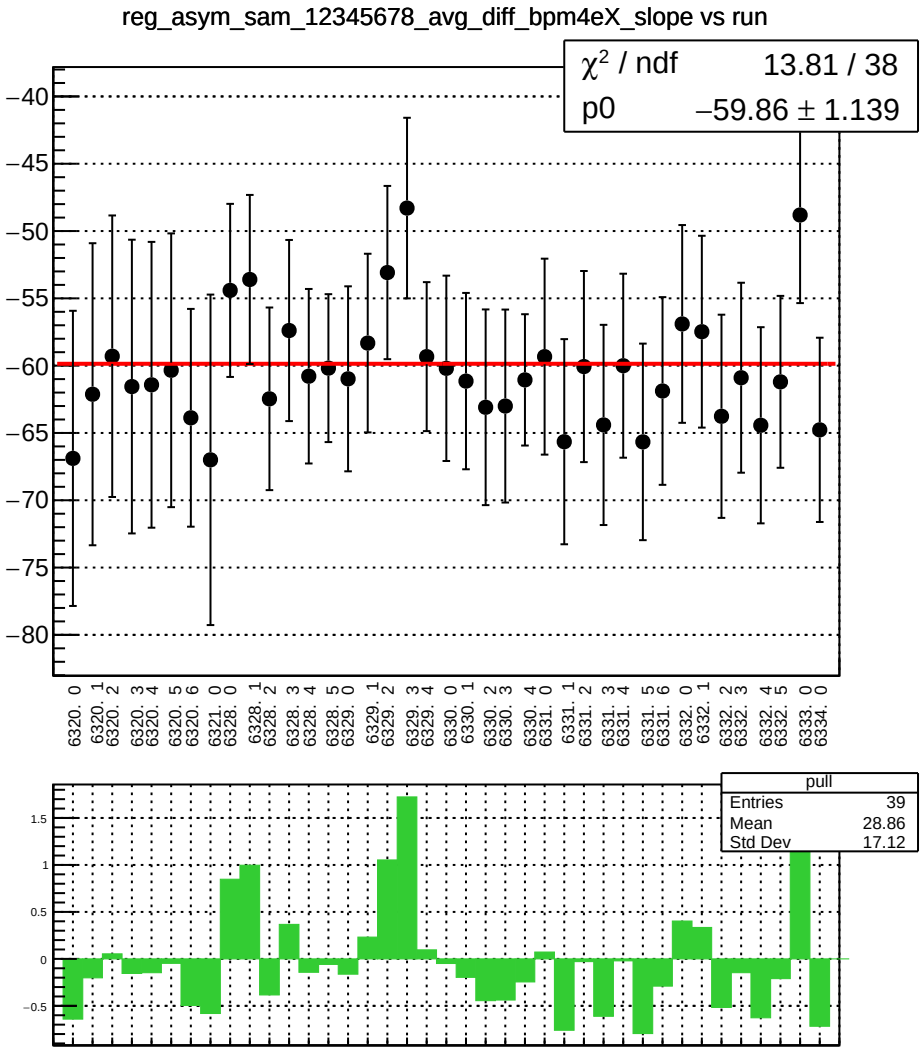

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.974 / 38
p0 21.78 ± 0.424
pull
Entries 39
Mean 11.71
Std Dev 18.34
pull1D
Entries 39
Mean 0.03971
Std Dev 0.5042

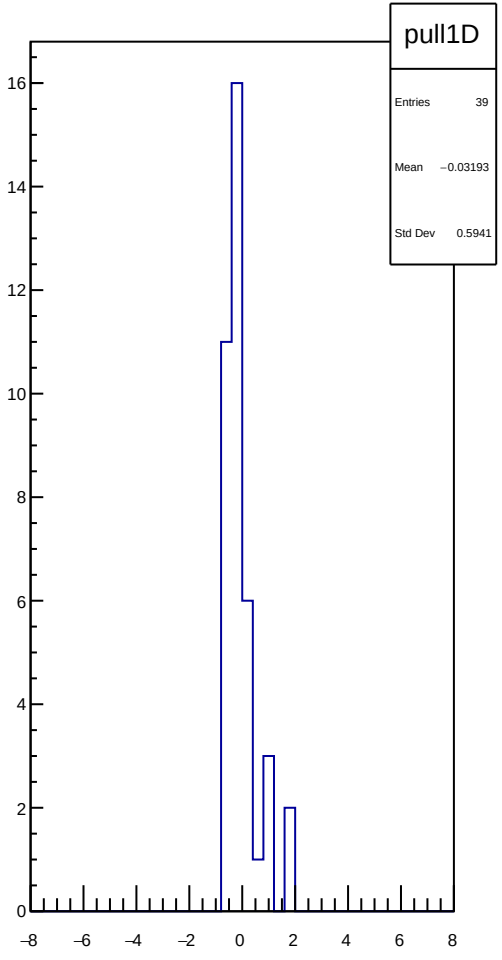

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.369 / 38
p0 −8.144 ± 0.3185
pull
Entries 39
Mean −33.81
Std Dev 0
pull1D
Entries 39
Mean 0.03584
Std Dev 0.3328

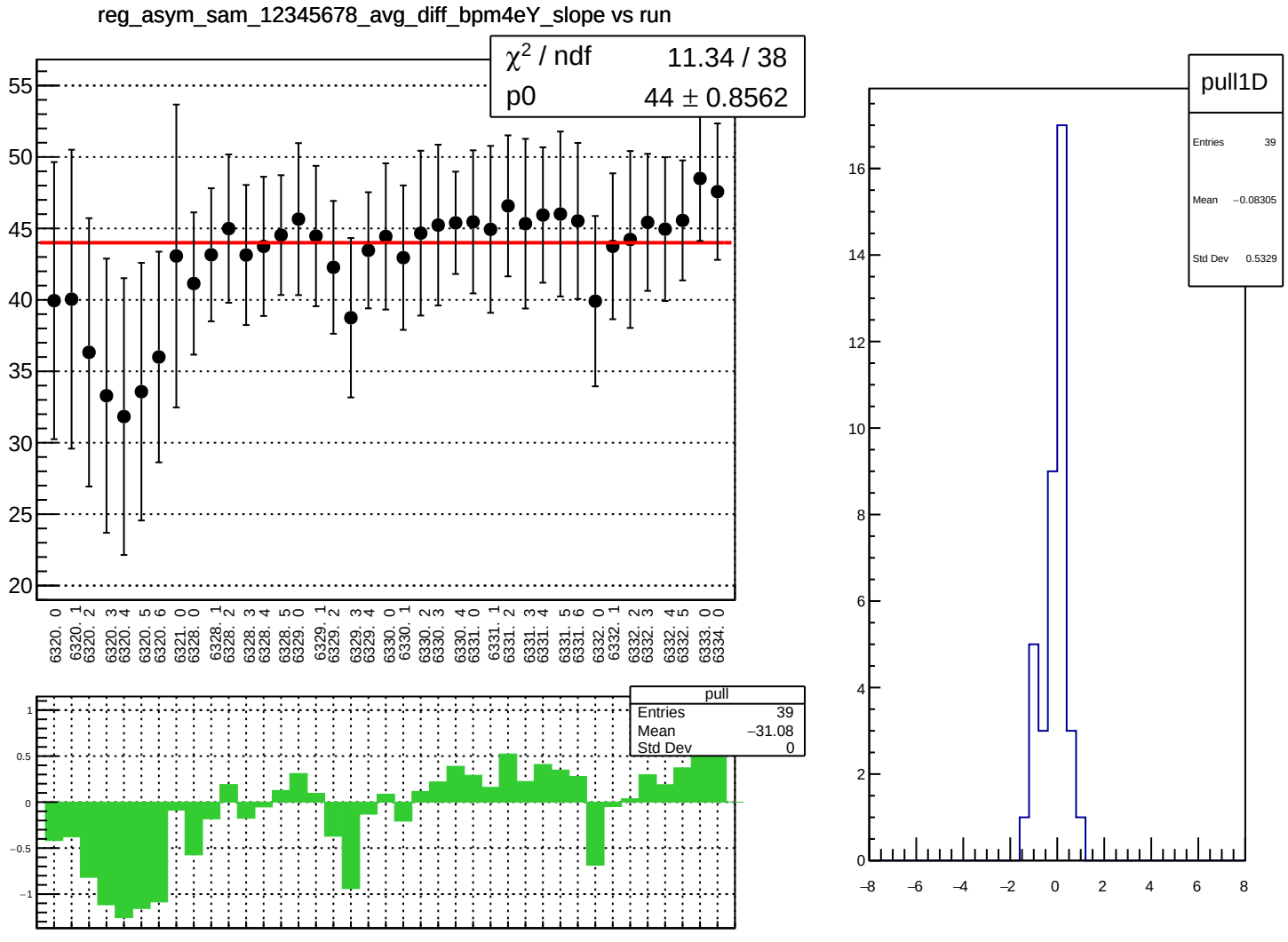

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 6.273 / 38
p0 −0.01991 ± 0.01503
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.135
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean 0.1081
Std Dev 0.3862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

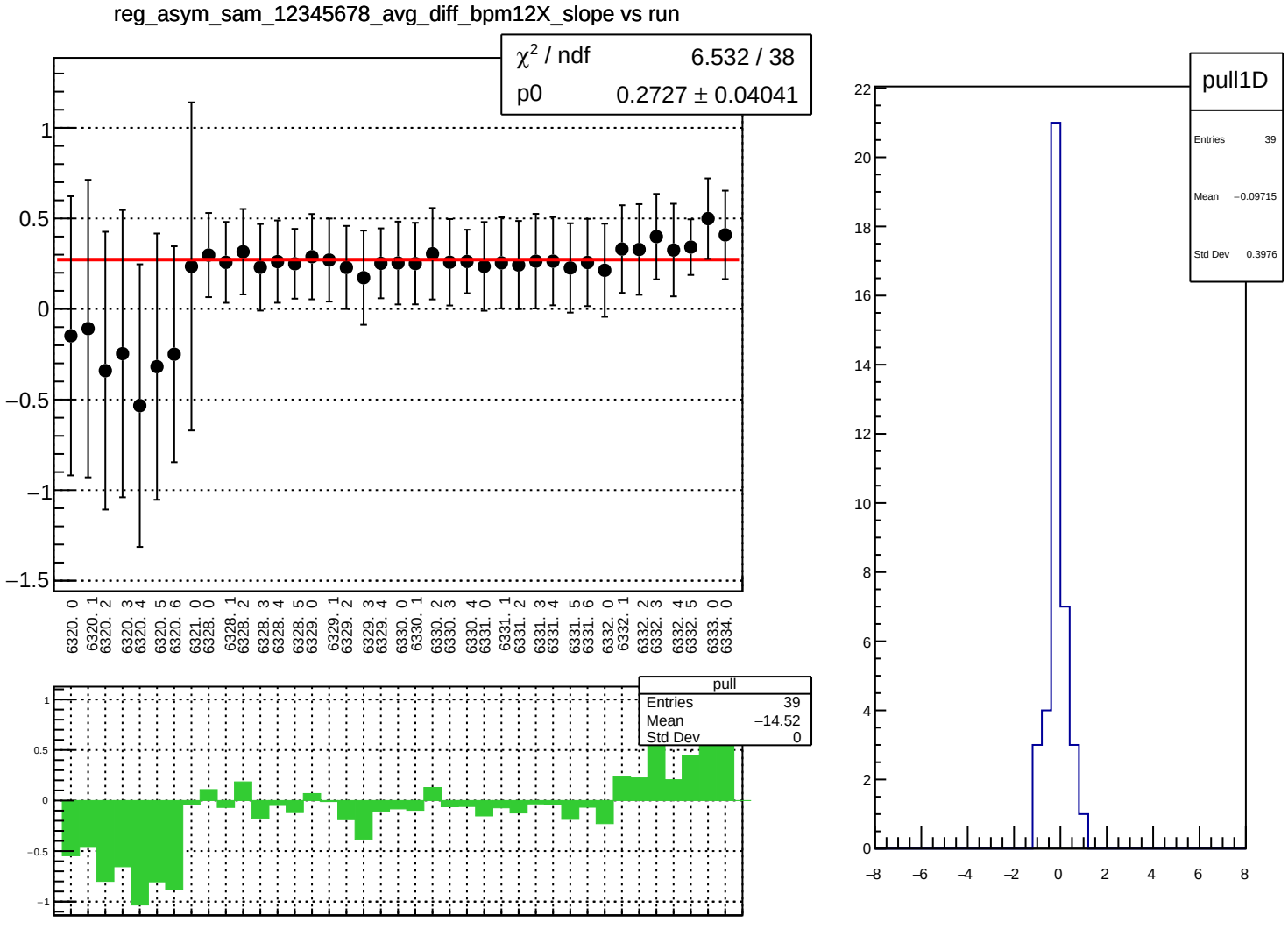

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 10.48 / 38
p0 −11.03 ± 1.083
10
5
0
−5
−10
−15
−20
−25
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 15.87
Std Dev 23.44
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.03547
Std Dev 0.5171
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

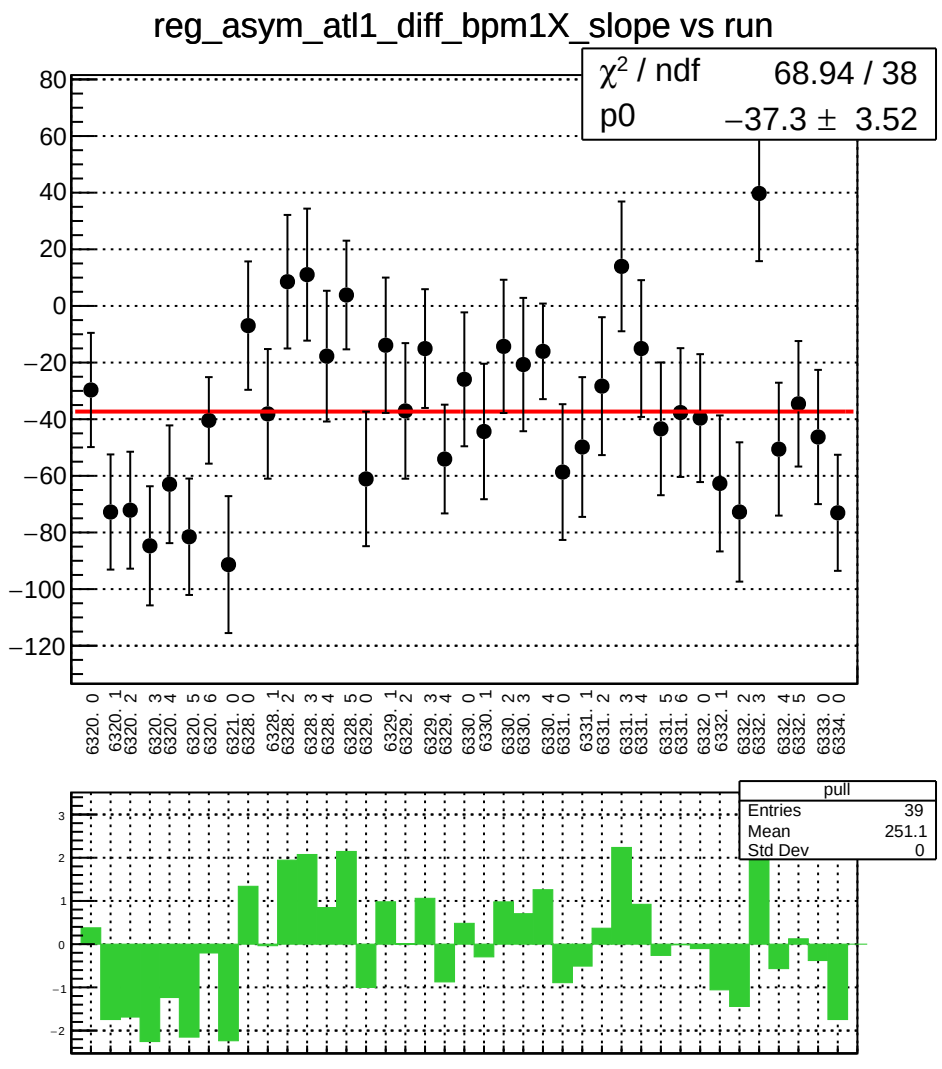

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.343 / 38
p0 −5.884 ± 0.7924
pull
Entries 39
Mean −34.01
Std Dev 0
pull1D
Entries 39
Mean 0.04412
Std Dev 0.3675

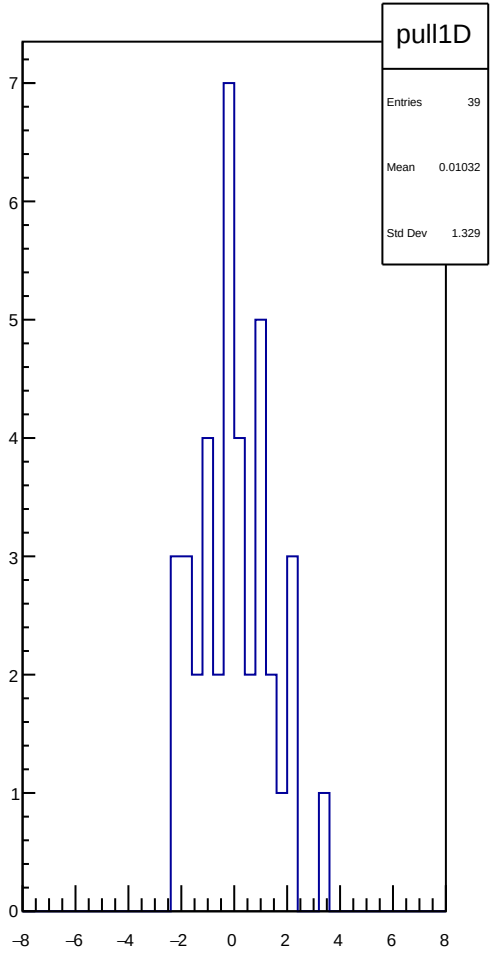

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.81 / 38
p0 −59.86 ± 1.139
−40
−45
−50
−55
−60
−65
−70
−75
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 28.86
Std Dev 17.12
1.5
1
0.5
0
−0.5

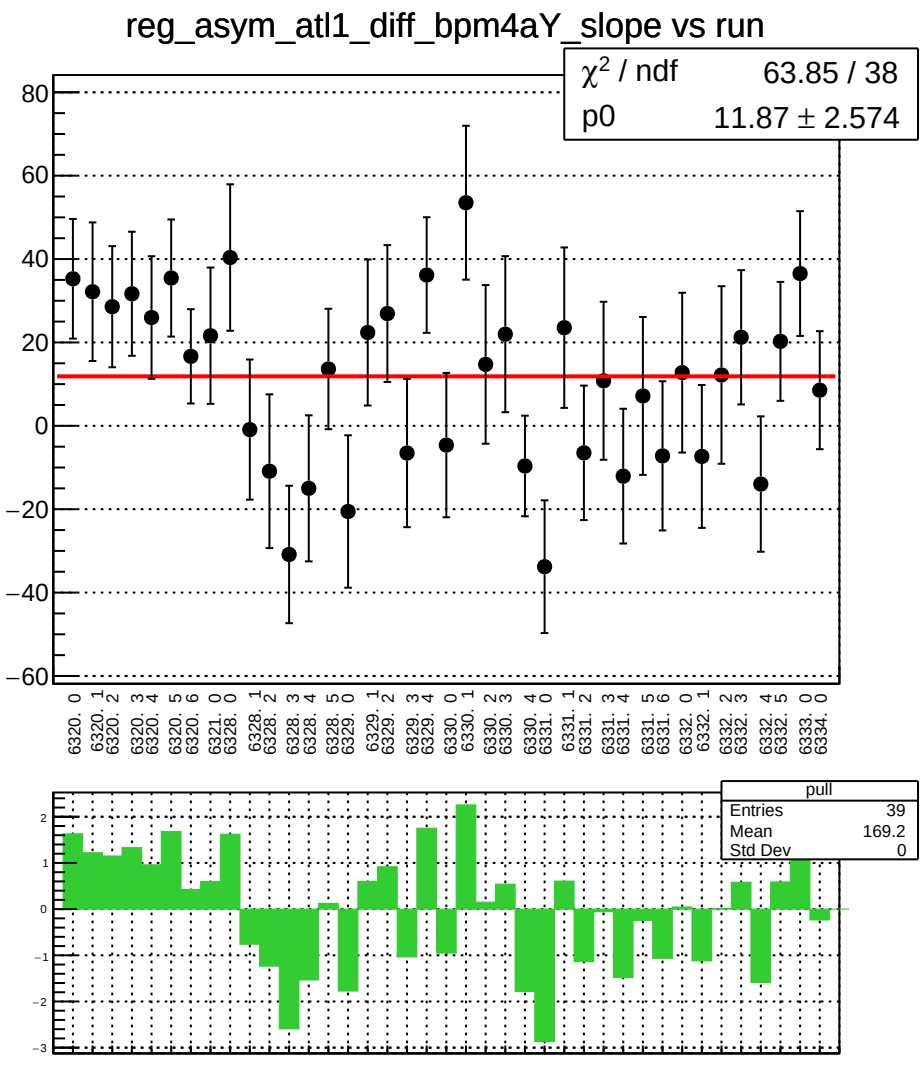

pull1D
Entries 39
Mean −0.03193
Std Dev 0.5941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

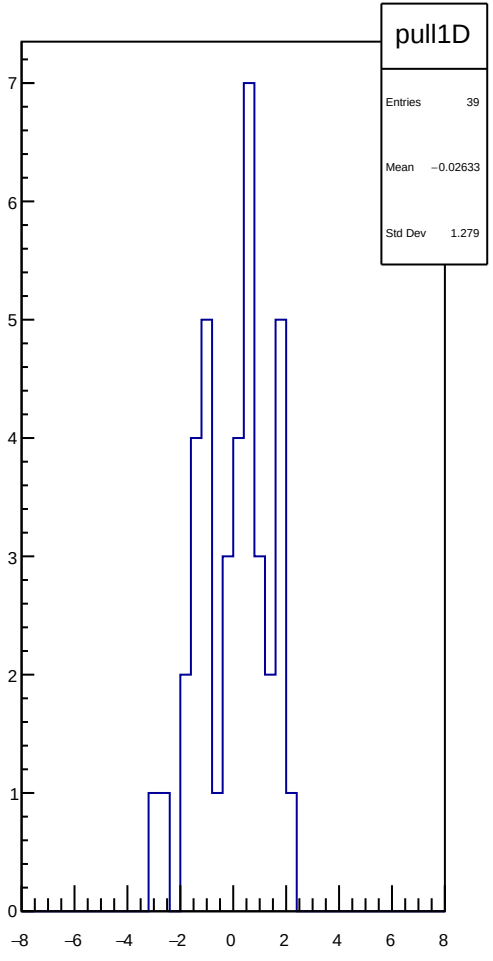

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.34 / 38
p0 44 ± 0.8562
55
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −31.08
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.08305
Std Dev 0.5329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

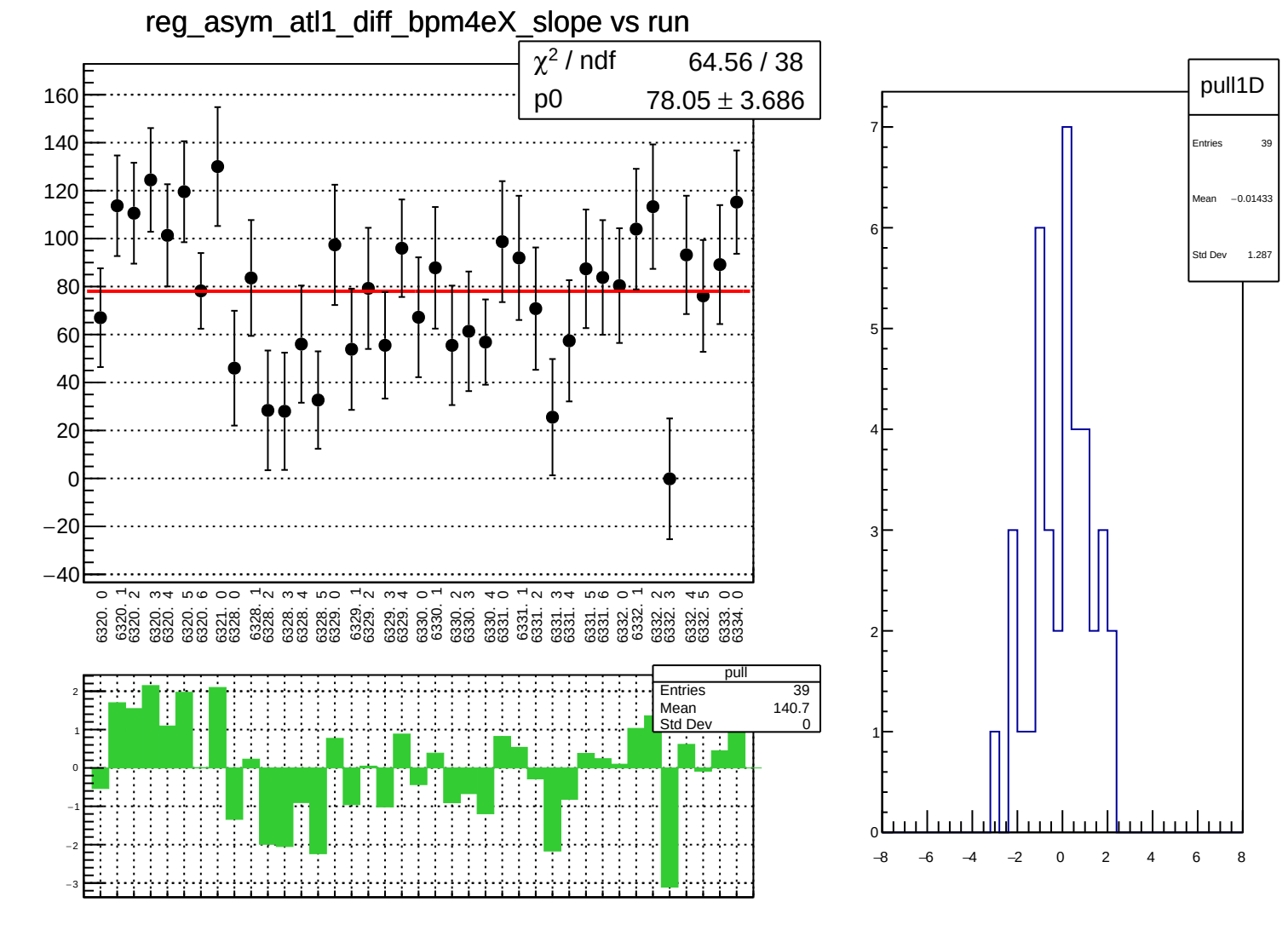

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 6.532 / 38
p0 0.2727 ± 0.04041
pull
Entries 39
Mean −14.52
Std Dev 0
pull1D
Entries 39
Mean −0.09715
Std Dev 0.3976

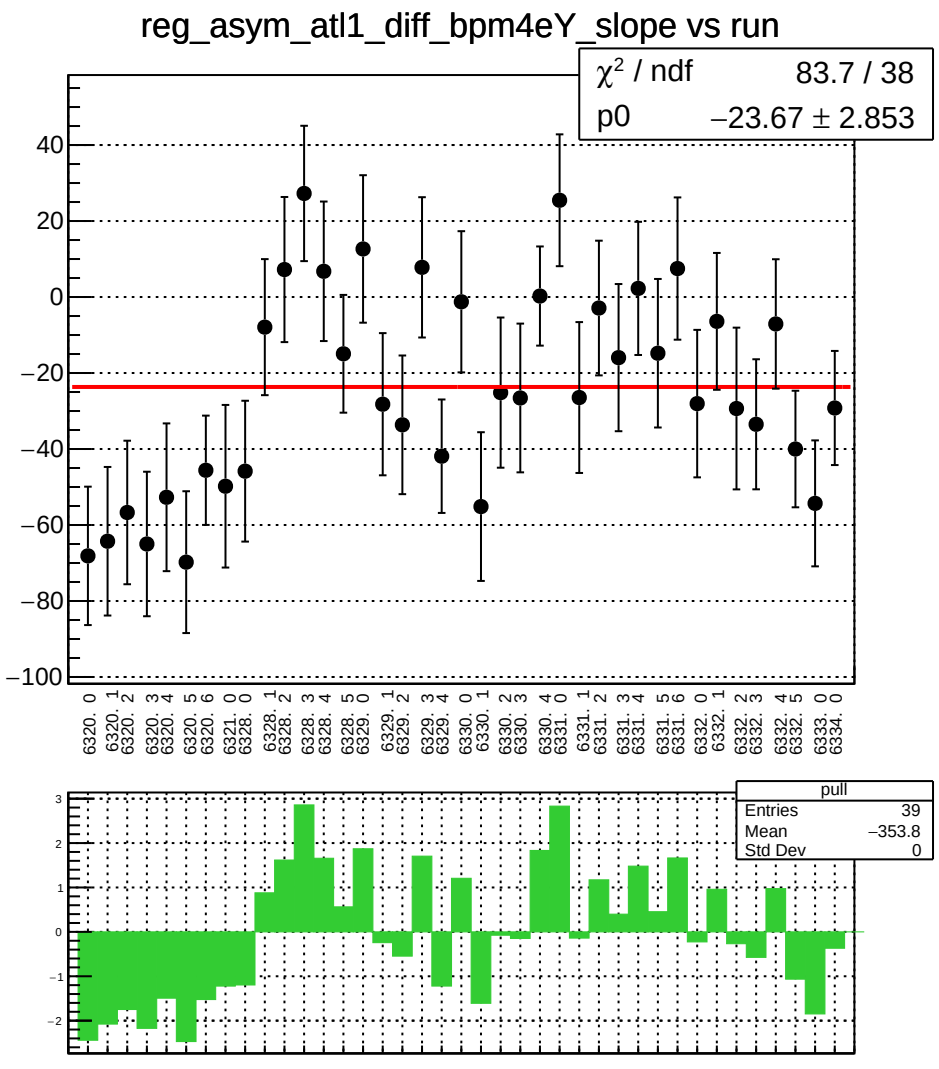

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 68.94 / 38
p0 −37.3 ± 3.52
pull
Entries 39
Mean 251.1
Std Dev 0

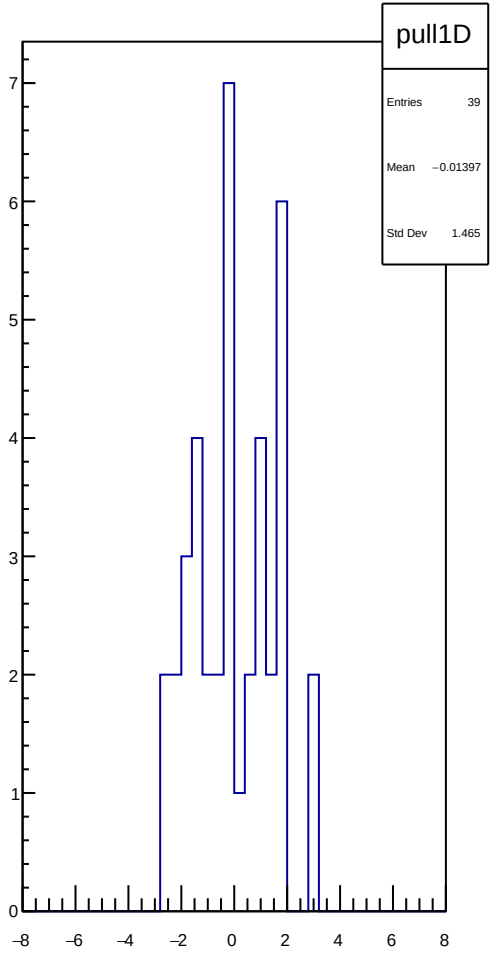

pull1D
Entries 39
Mean 0.01032
Std Dev 1.329

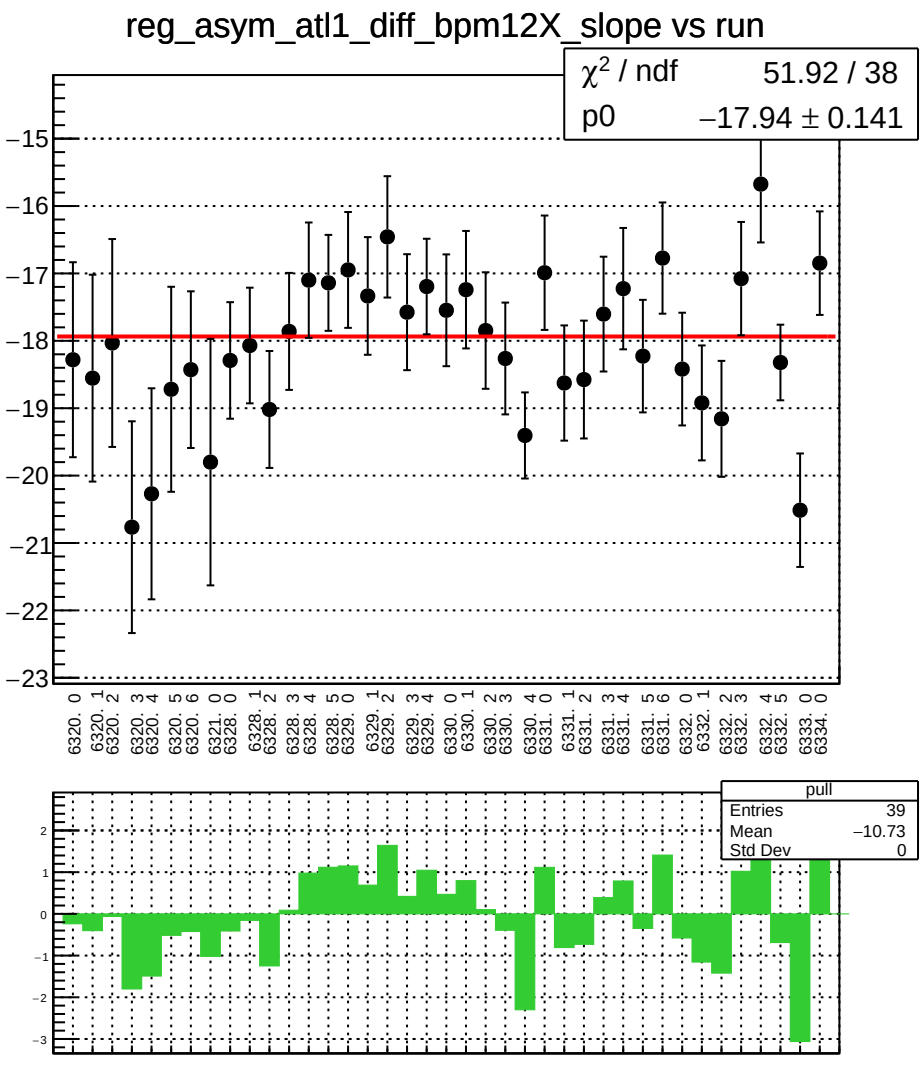

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 63.85 / 38
p0 11.87 ± 2.574
pull
Entries 39
Mean 169.2
Std Dev 0

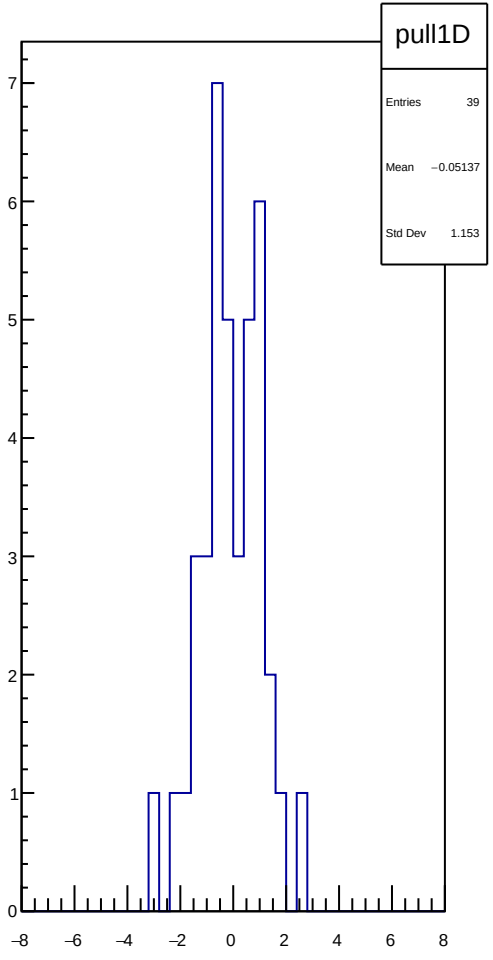

pull1D
Entries 39
Mean −0.02633
Std Dev 1.279

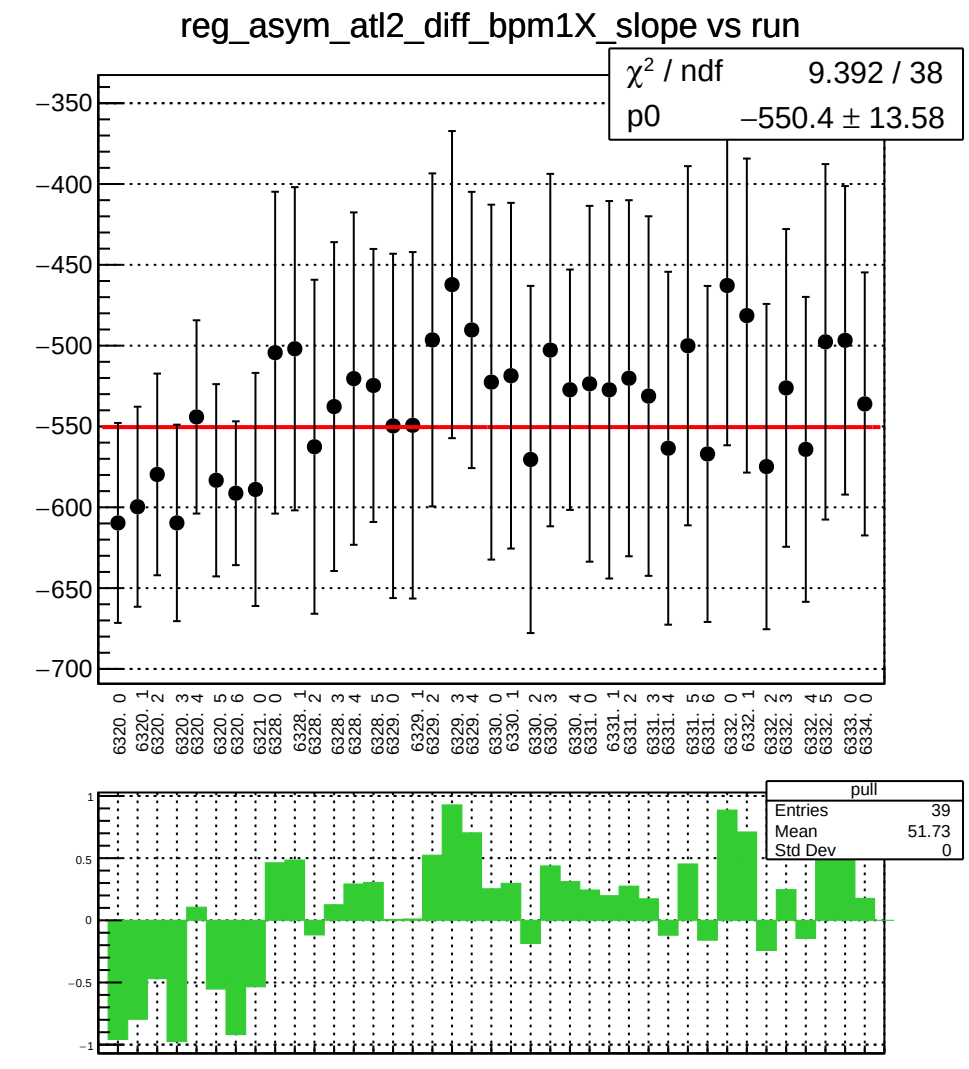

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 64.56 / 38
p0 78.05 ± 3.686
pull
Entries 39
Mean 140.7
Std Dev 0
pull1D
Entries 39
Mean −0.01433
Std Dev 1.287

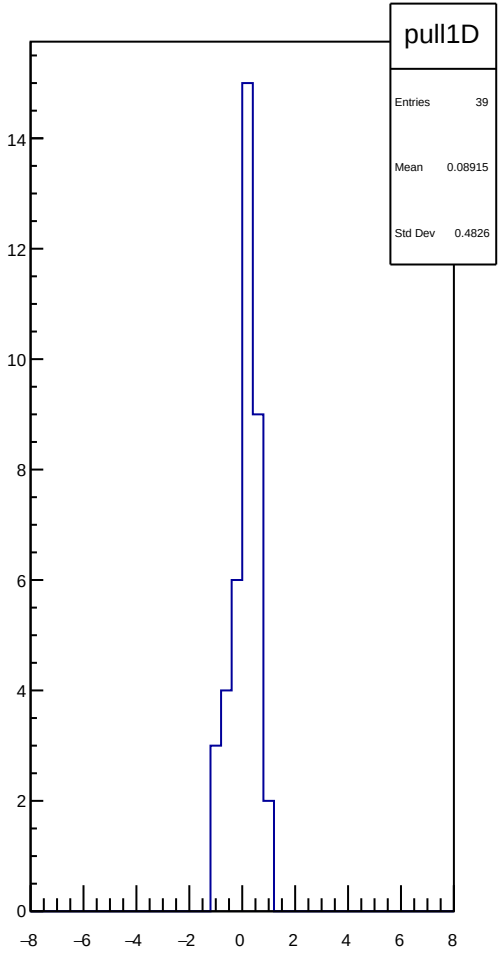

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 83.7 / 38
p0 −23.67 ± 2.853
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −353.8
Std Dev 0
3
2
1
0
−1
−2

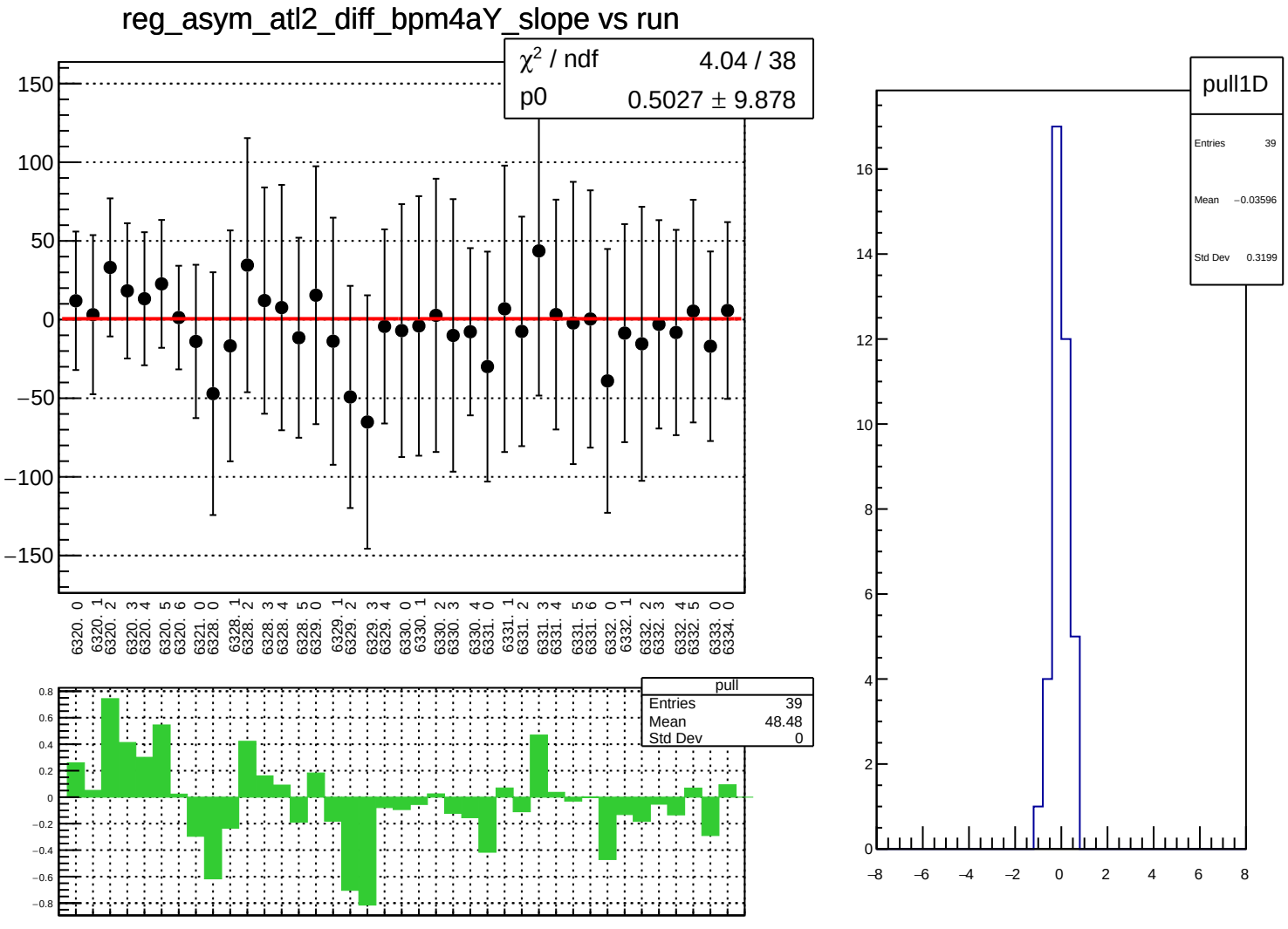

pull1D
Entries 39
Mean −0.01397
Std Dev 1.465
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

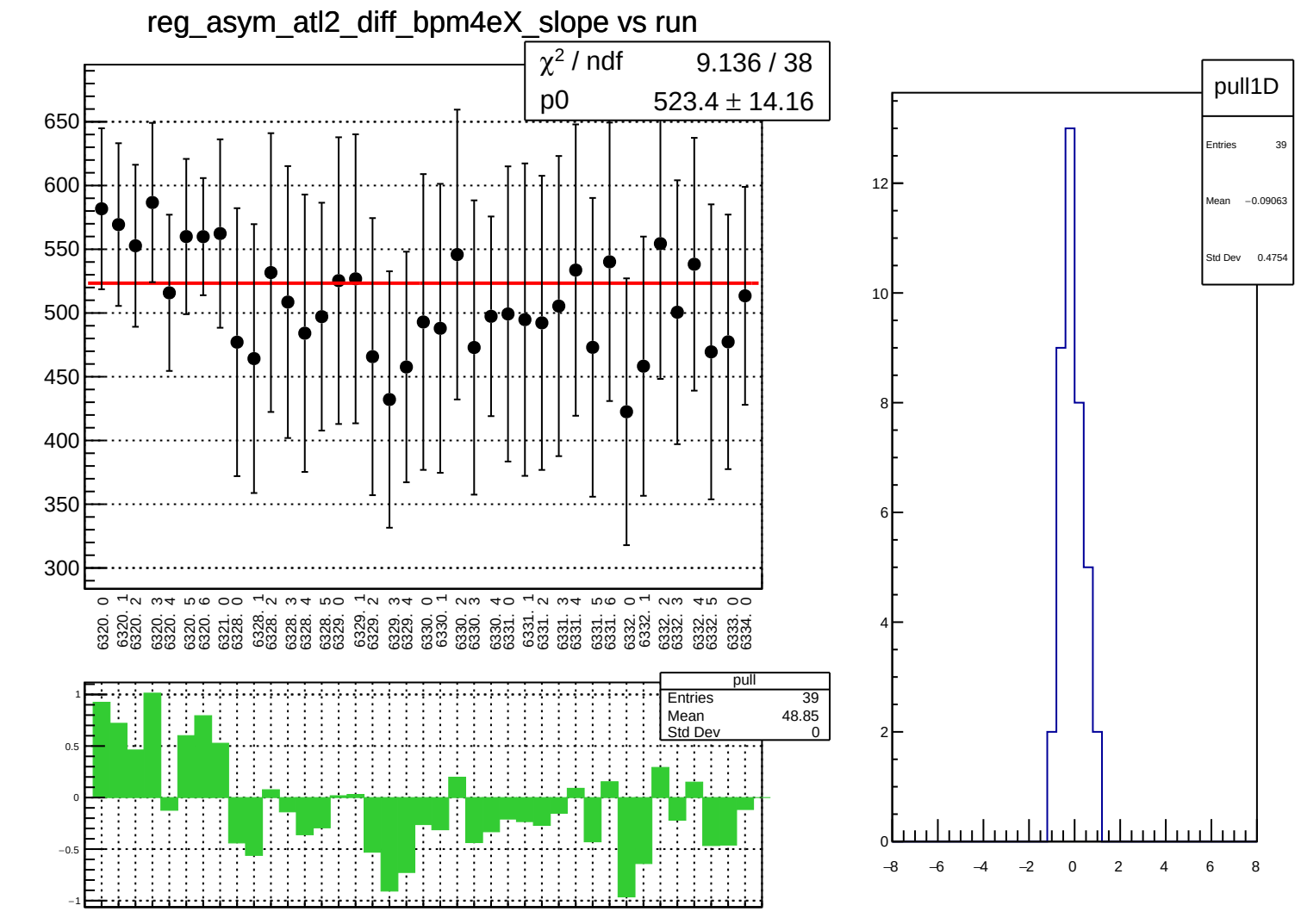

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 51.92 / 38
p0 −17.94 ± 0.141
pull
Entries 39
Mean −10.73
Std Dev 0

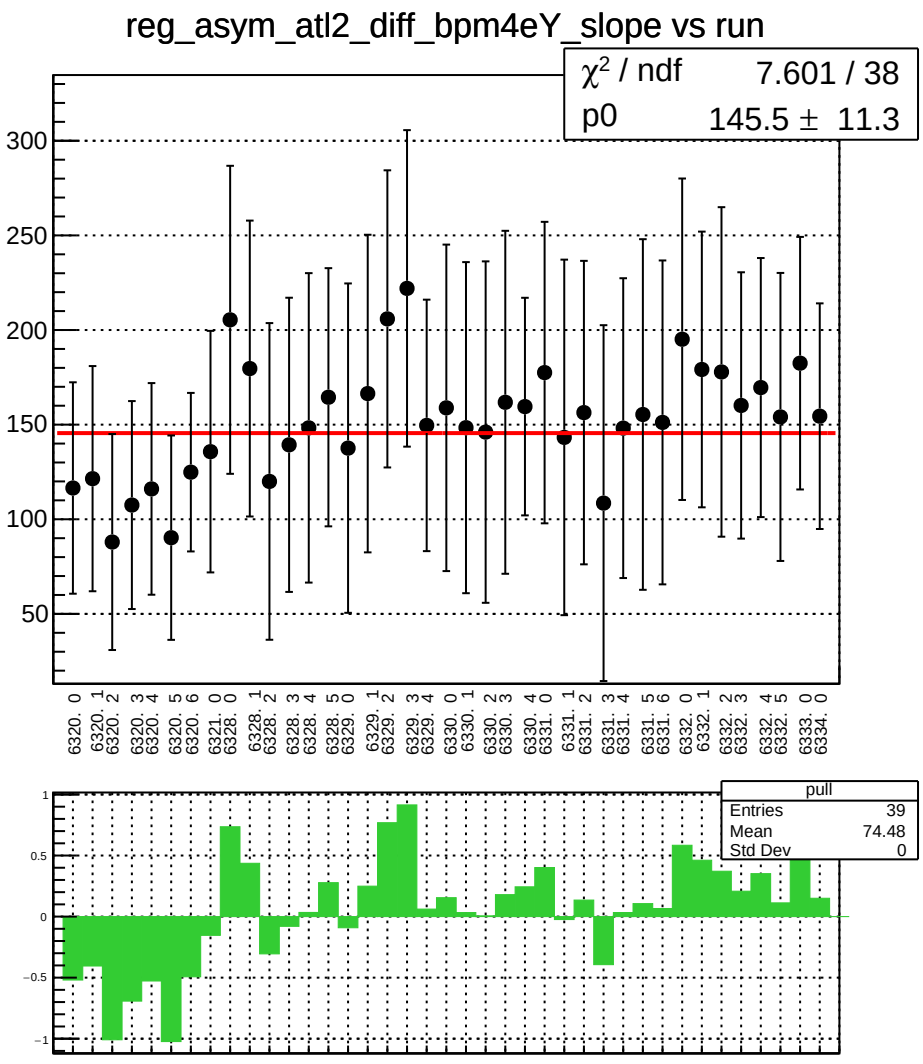

pull1D
Entries 39
Mean −0.05137
Std Dev 1.153

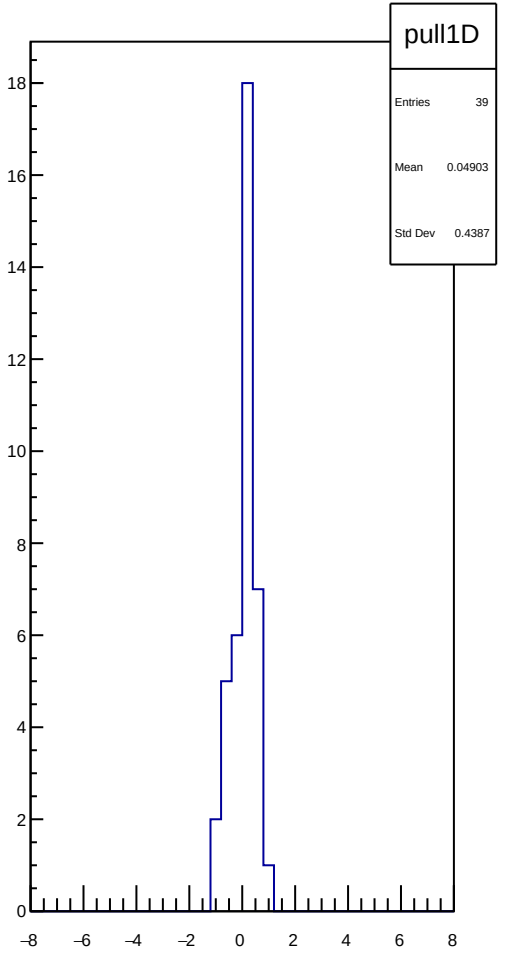

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 9.392 / 38
p0 −550.4 ± 13.58
pull
Entries 39
Mean 51.73
Std Dev 0

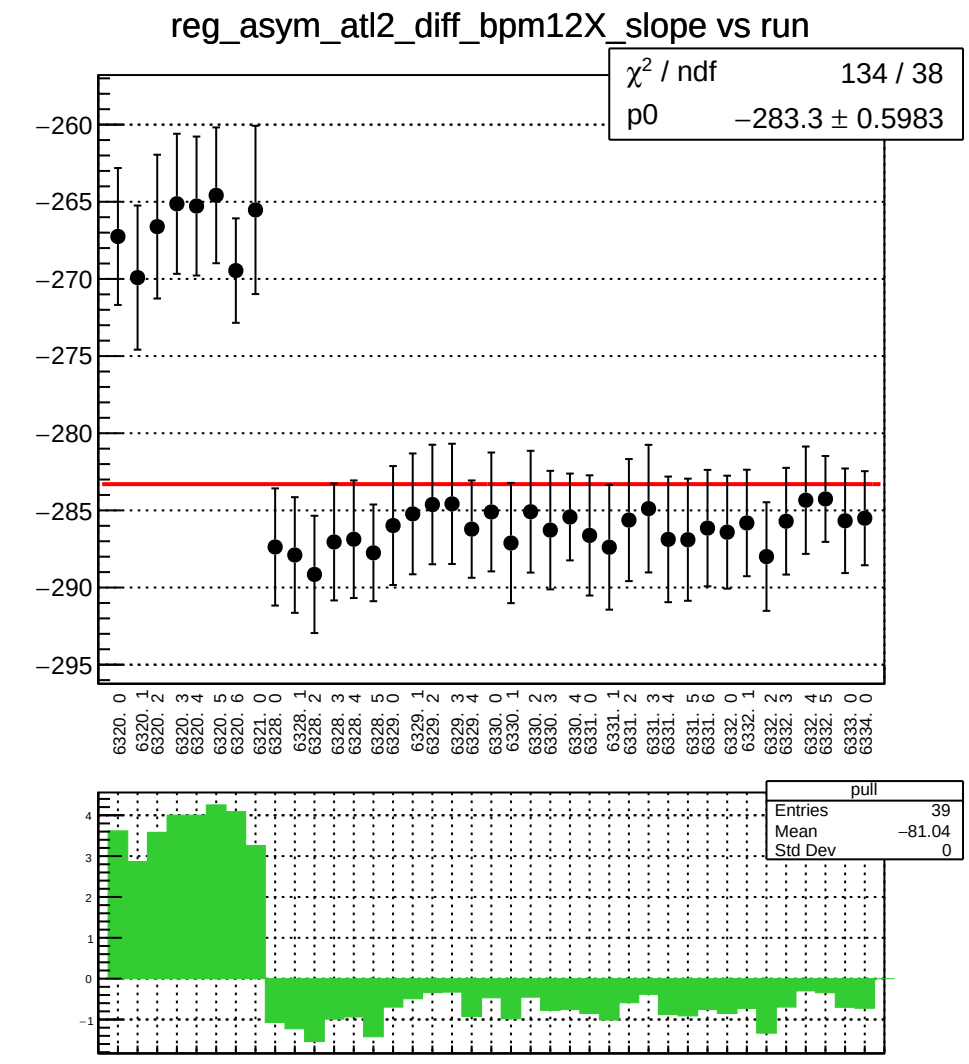

pull1D
Entries 39
Mean 0.08915
Std Dev 0.4826

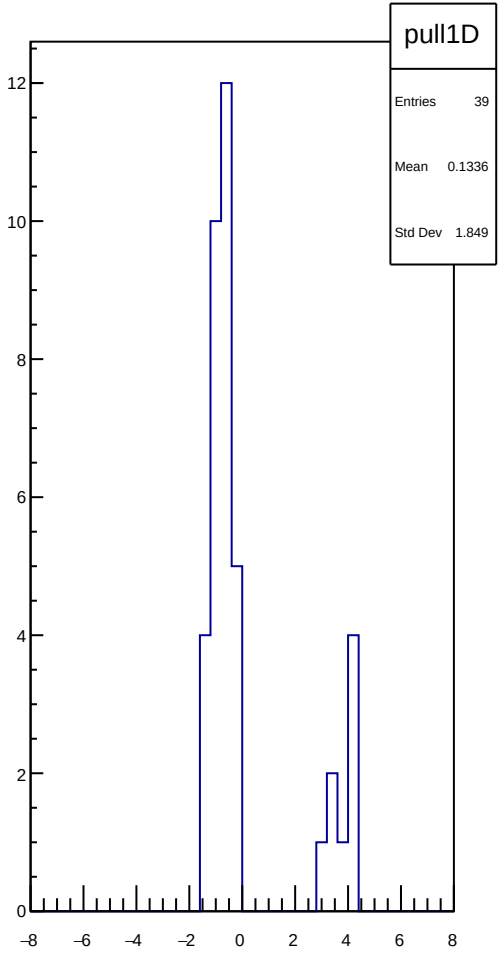

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.04 / 38
p0 0.5027 ± 9.878
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 48.48
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.03596
Std Dev 0.3199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

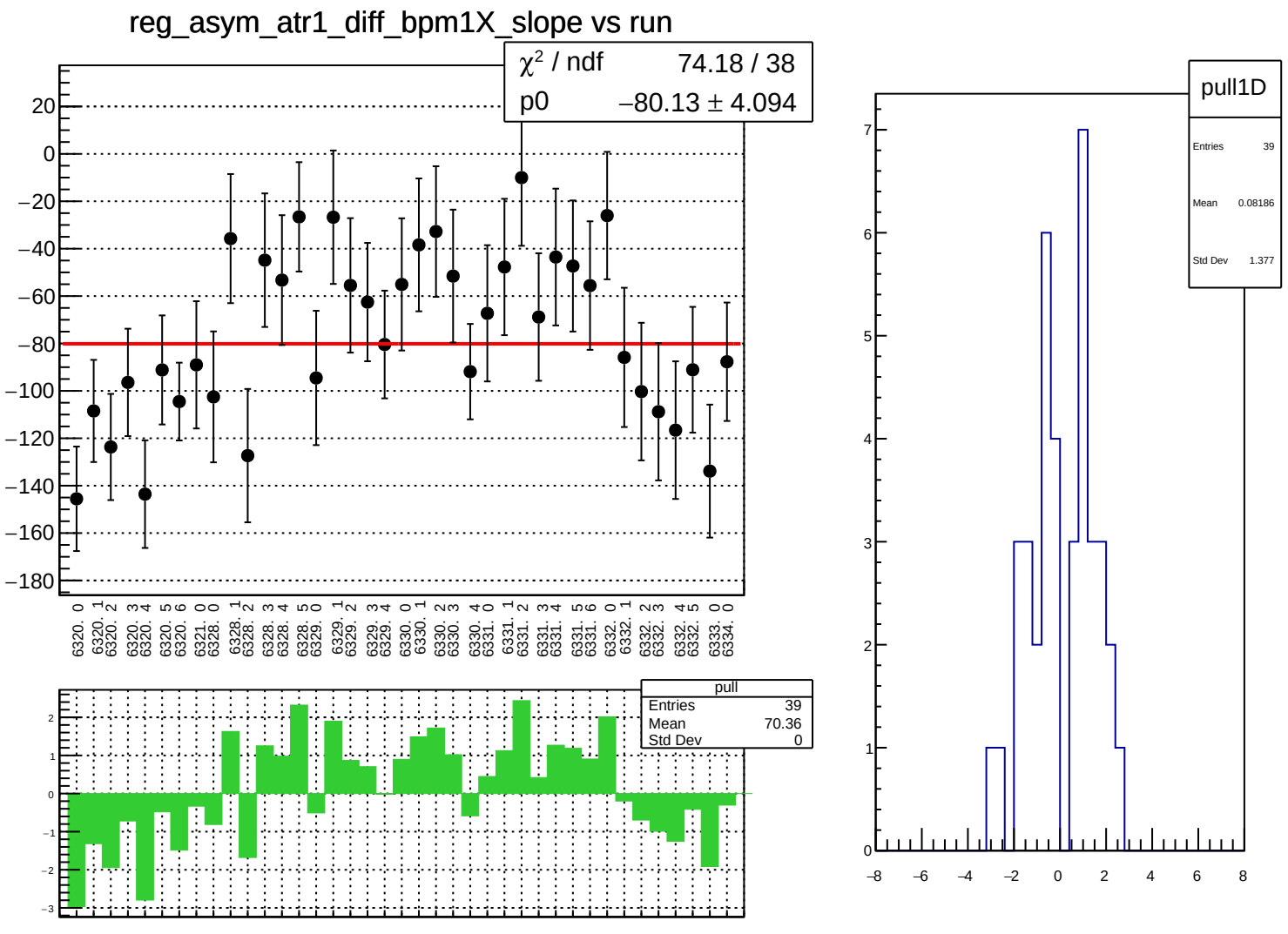

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 9.136 / 38
p0 523.4 ± 14.16
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 48.85
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.09063
Std Dev 0.4754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

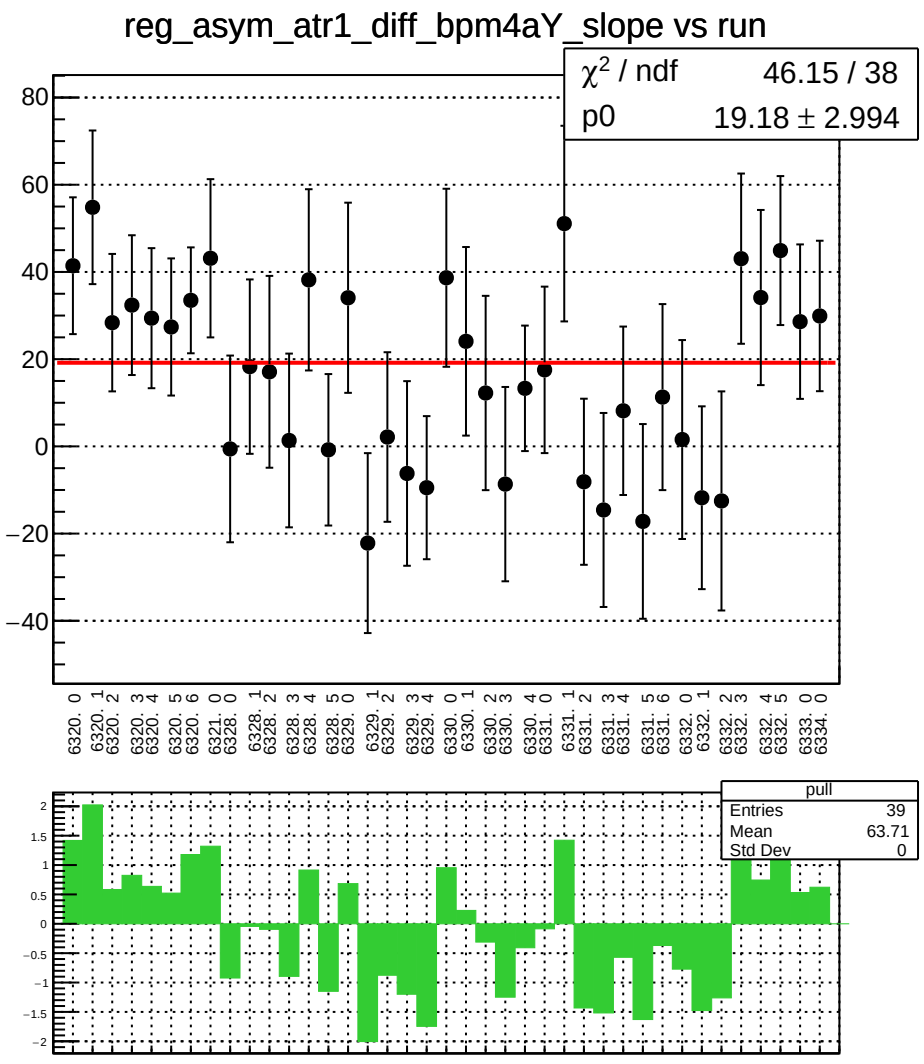

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.601 / 38
p0 145.5 ± 11.3
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.48
Std Dev 0
1
0.5
0
−0.5
−1

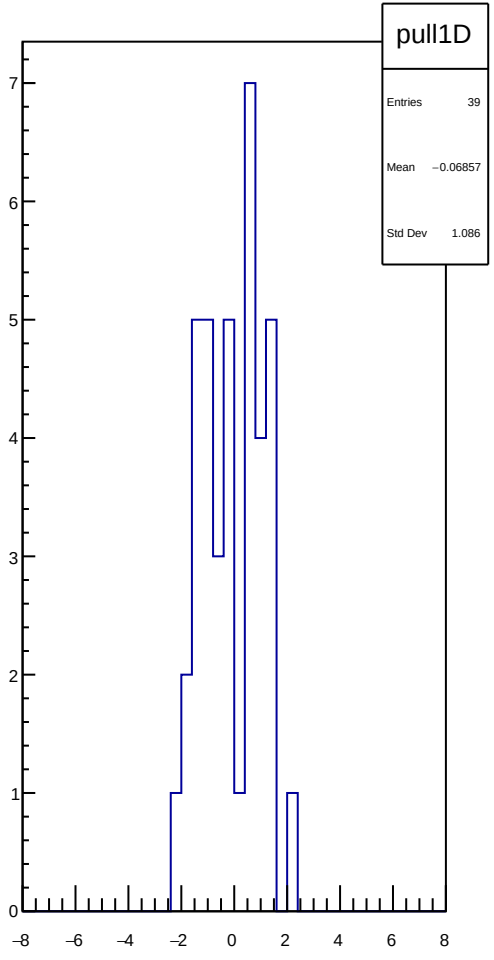

pull1D
Entries 39
Mean 0.04903
Std Dev 0.4387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

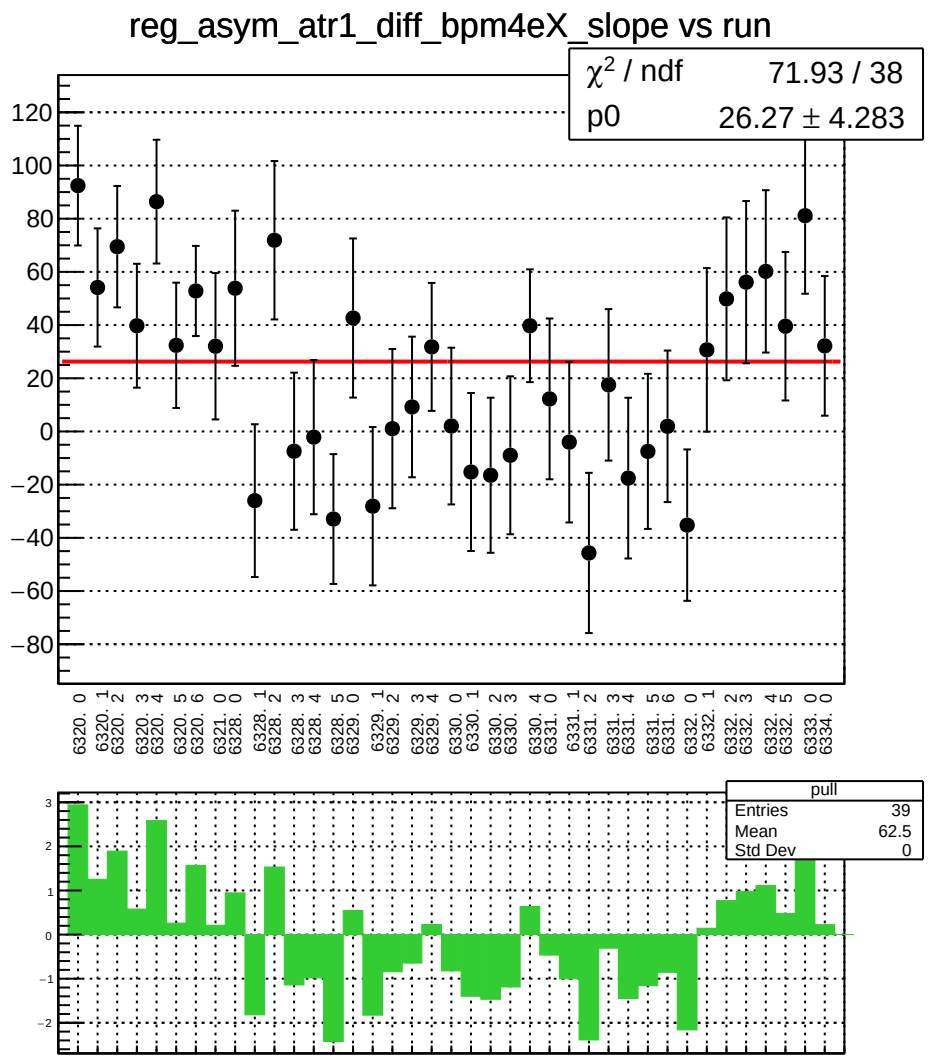

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 134 / 38
p0 −283.3 ± 0.5983
pull
Entries 39
Mean −81.04
Std Dev 0

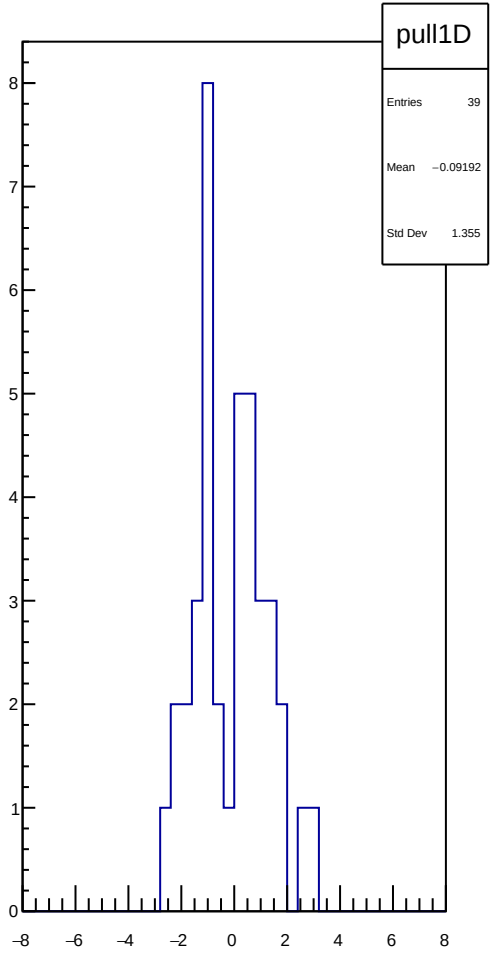

pull1D
Entries 39
Mean 0.1336
Std Dev 1.849

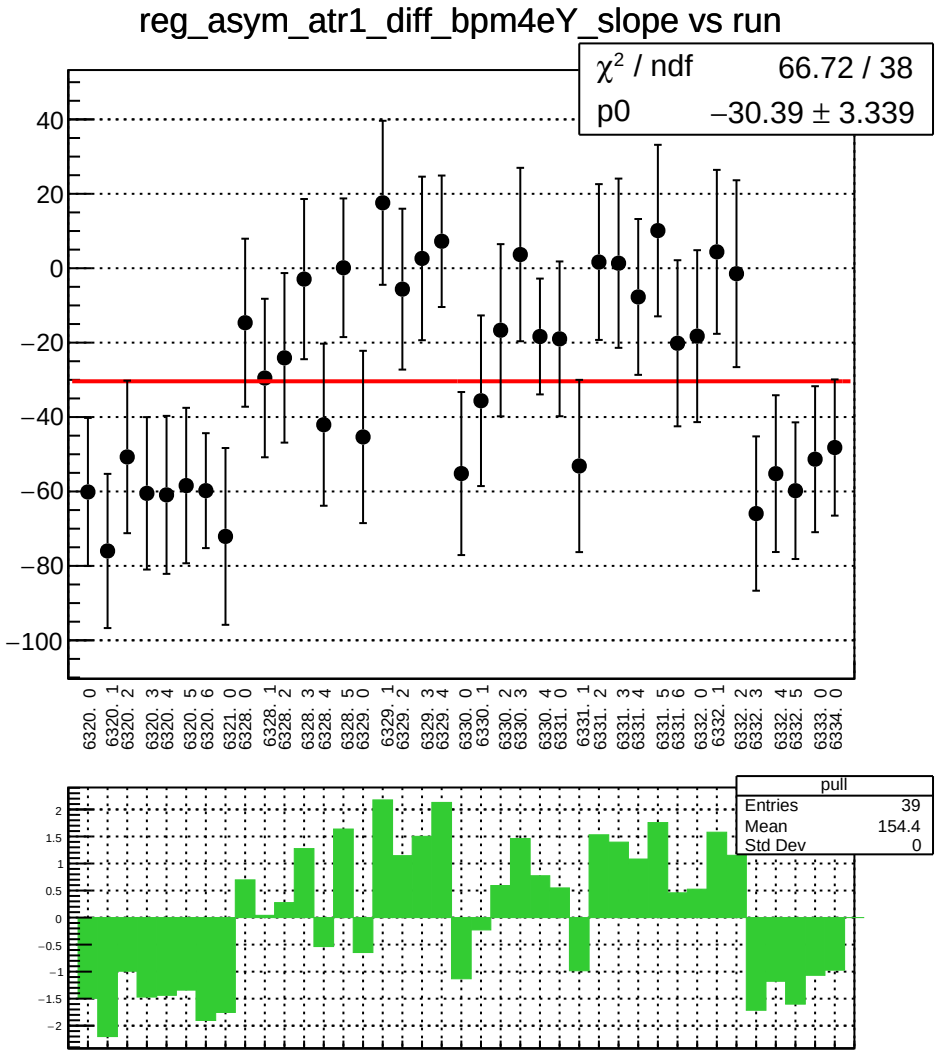

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 74.18 / 38
p0 −80.13 ± 4.094
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 70.36
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.08186
Std Dev 1.377
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

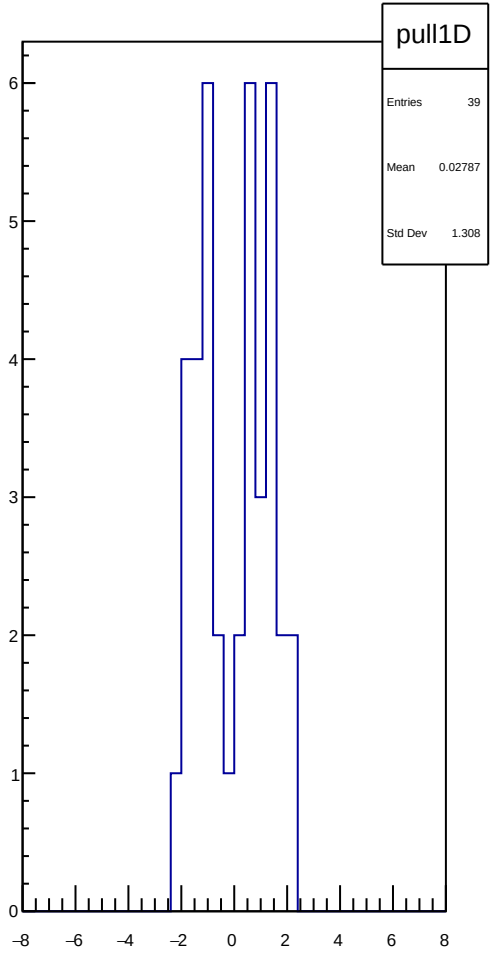

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 46.15 / 38
p0 19.18 ± 2.994
pull
Entries 39
Mean 63.71
Std Dev 0

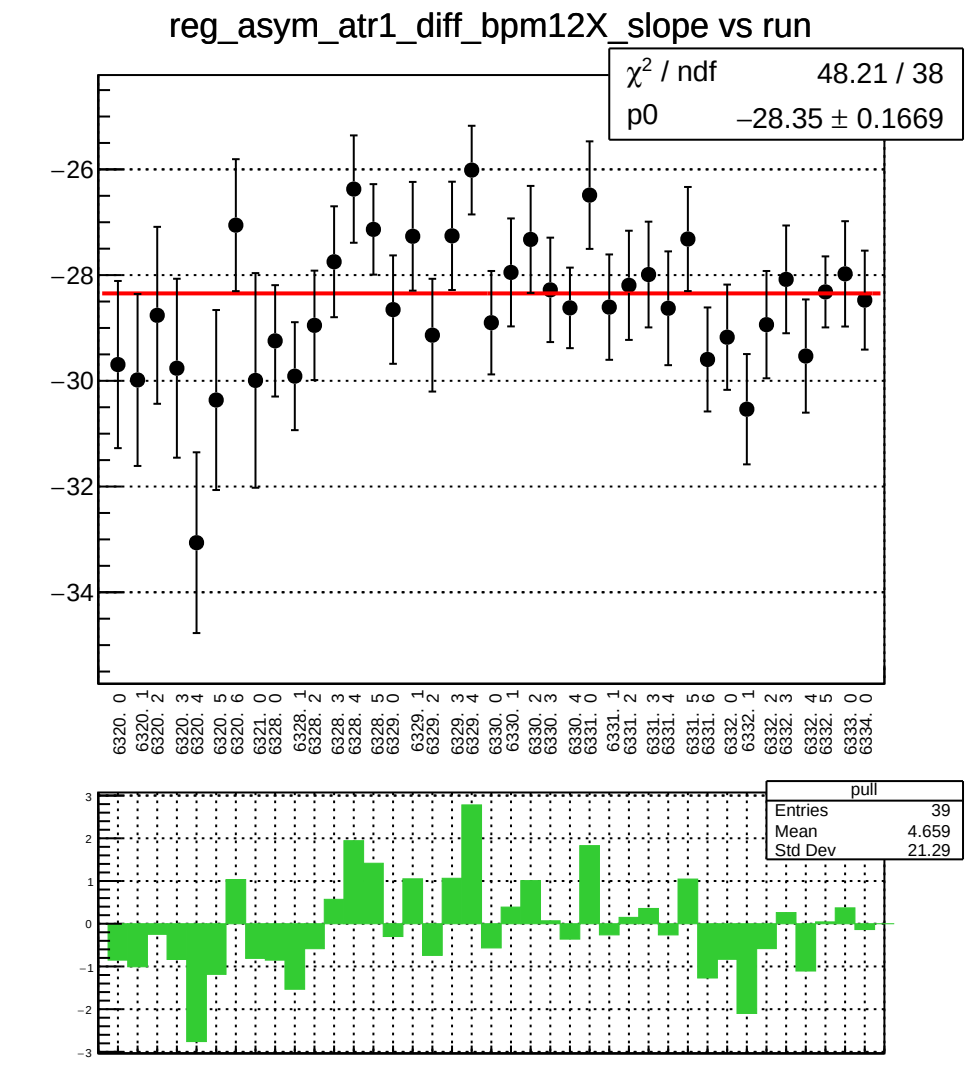

pull1D
Entries 39
Mean −0.06857
Std Dev 1.086

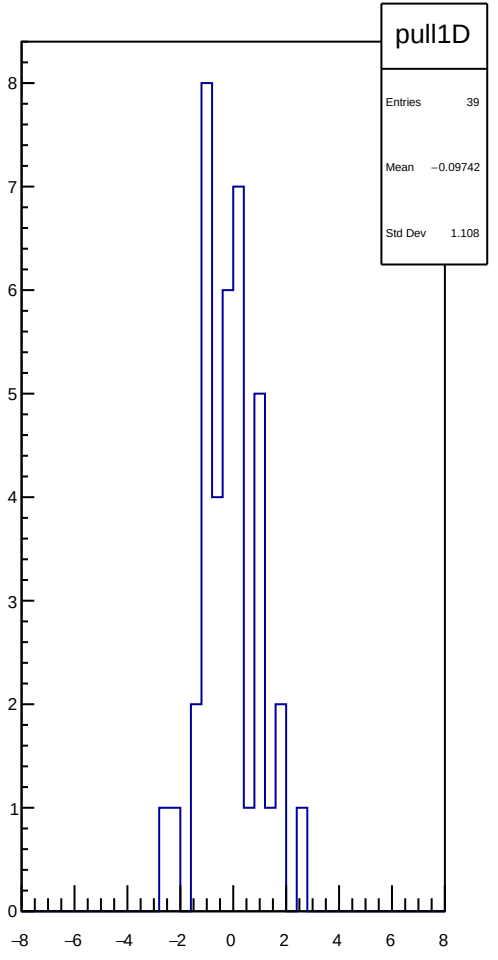

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 71.93 / 38
p0 26.27 ± 4.283
pull
Entries 39
Mean 62.5
Std Dev 0

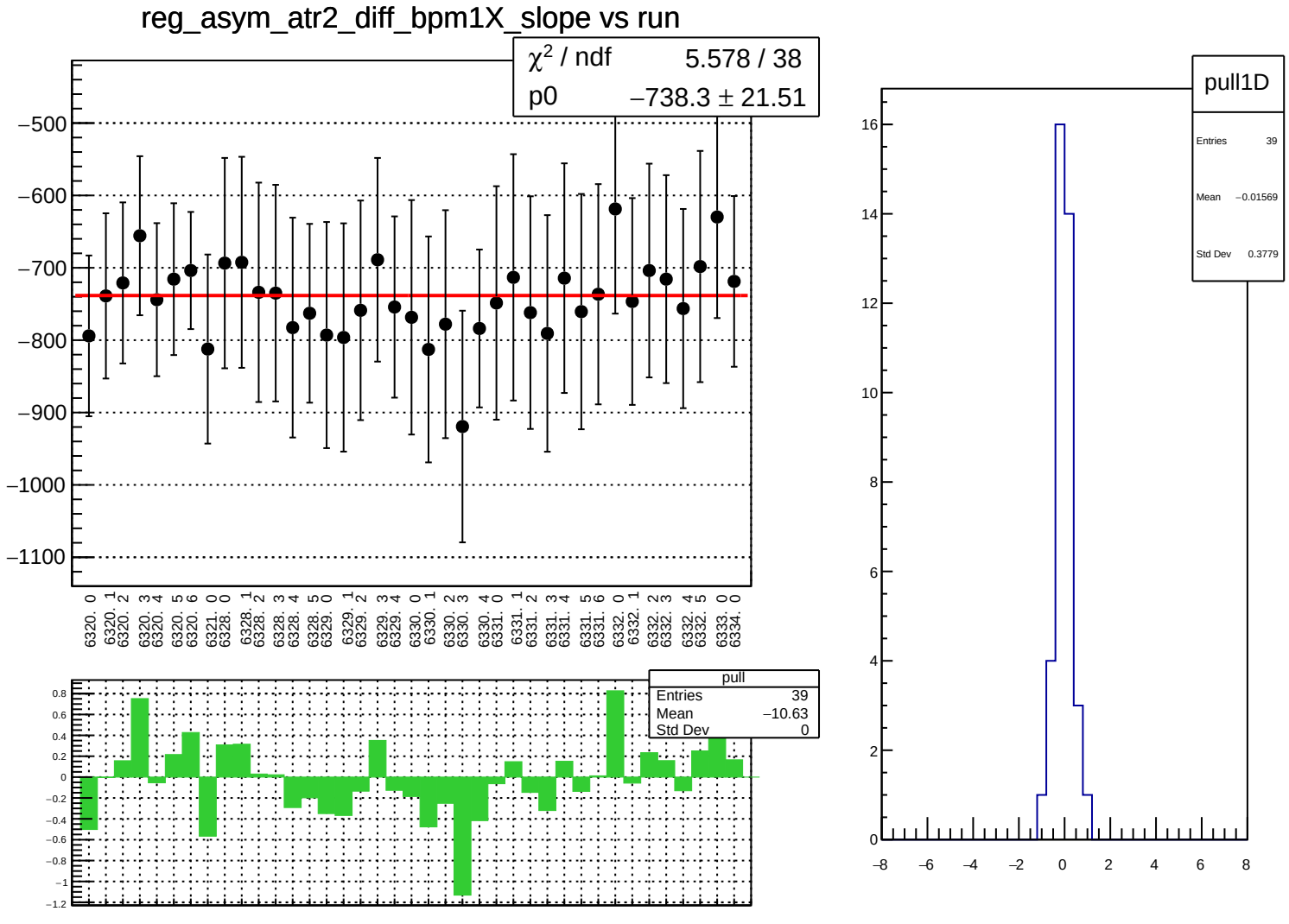

pull1D
Entries 39
Mean −0.09192
Std Dev 1.355

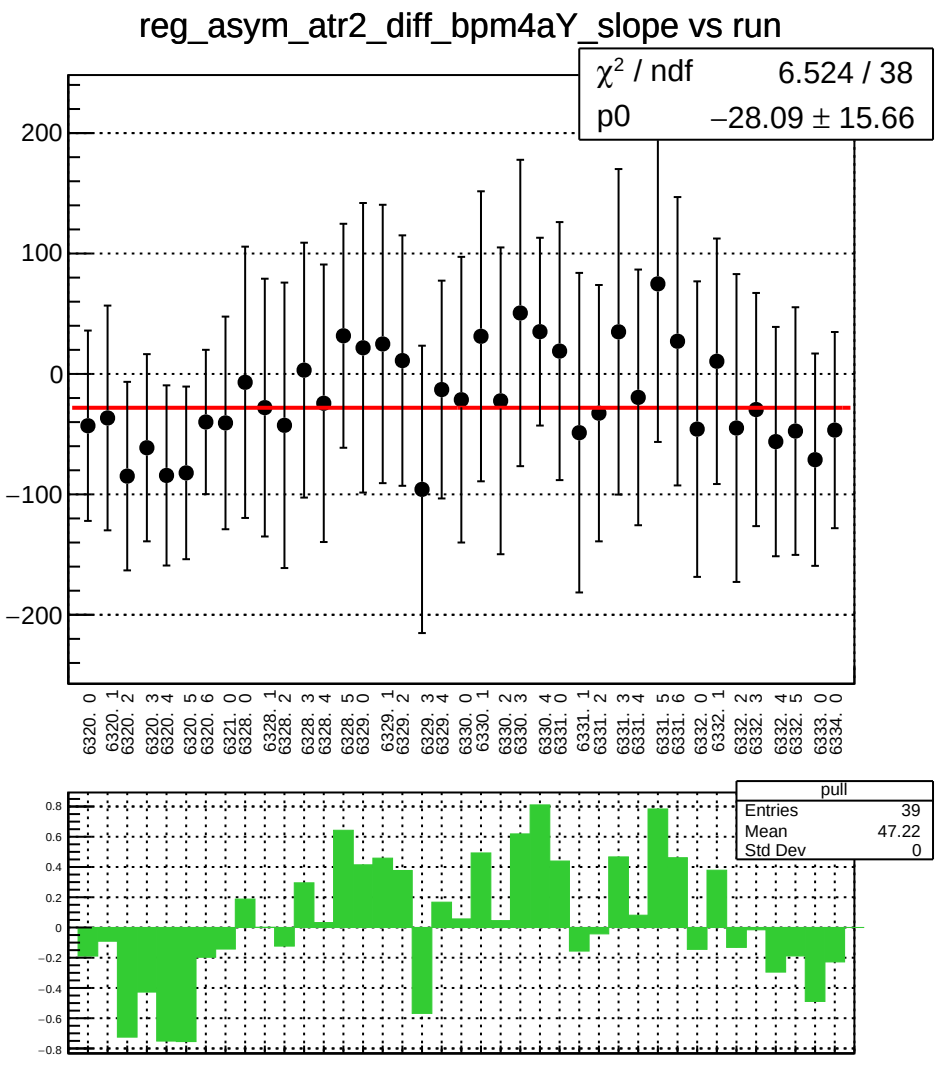

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 66.72 / 38
p0 −30.39 ± 3.339
pull
Entries 39
Mean 154.4
Std Dev 0

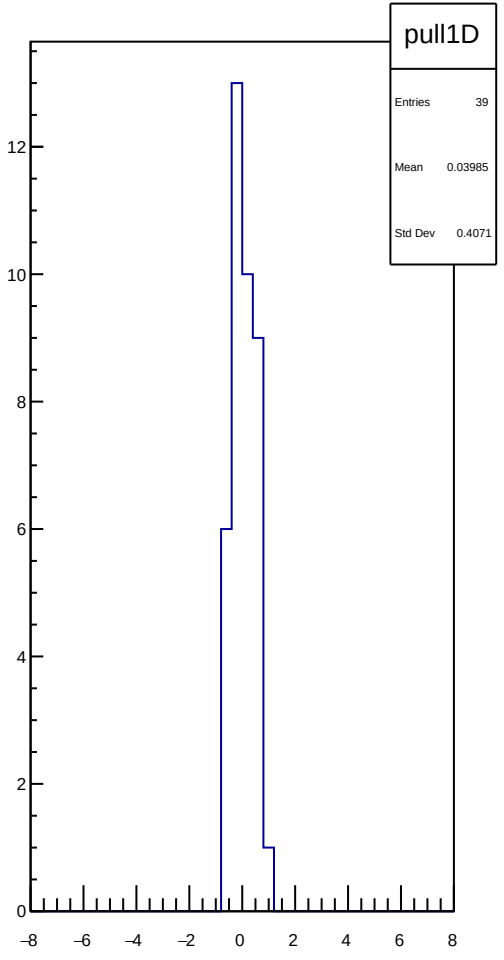

pull1D
Entries 39
Mean 0.02787
Std Dev 1.308

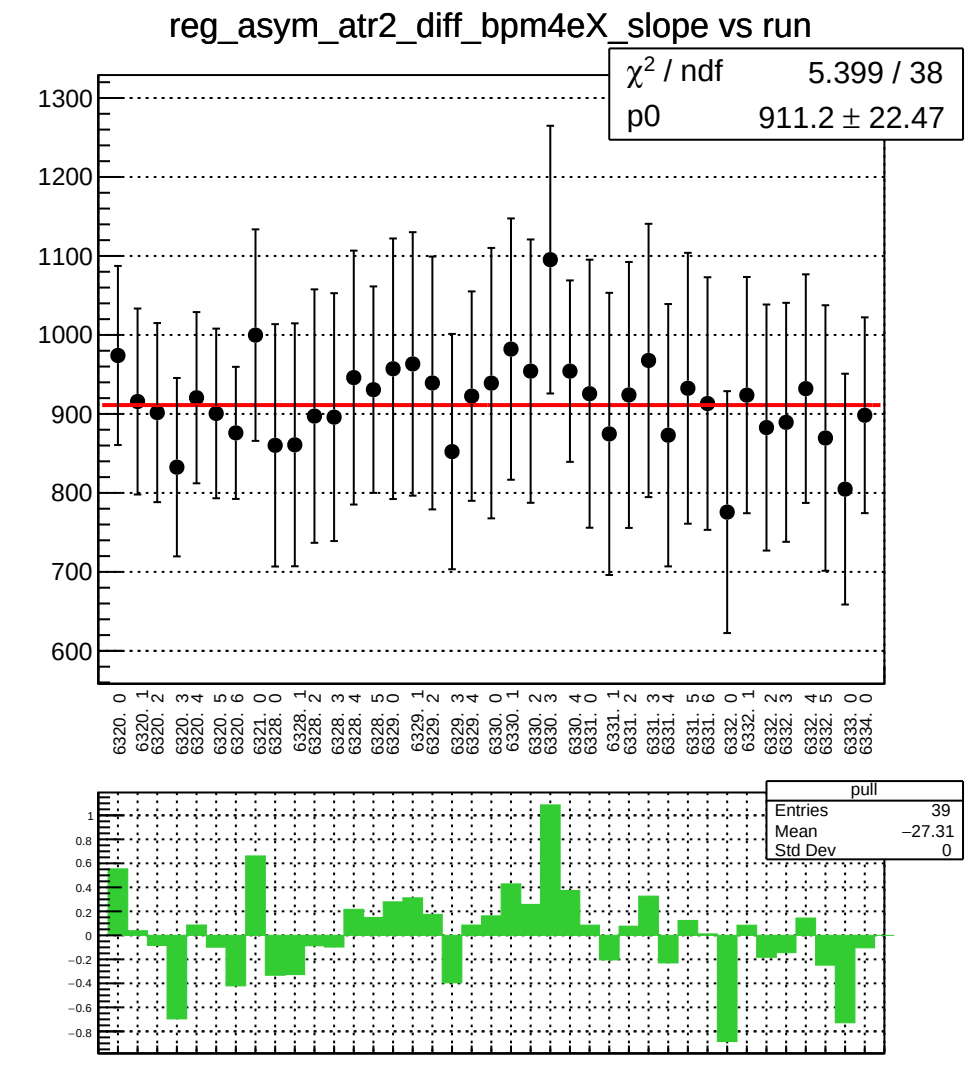

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 48.21 / 38
p0 −28.35 ± 0.1669
−26
−28
−30
−32
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 4.659
Std Dev 21.29
3
2
1
0
−1
−2
−3

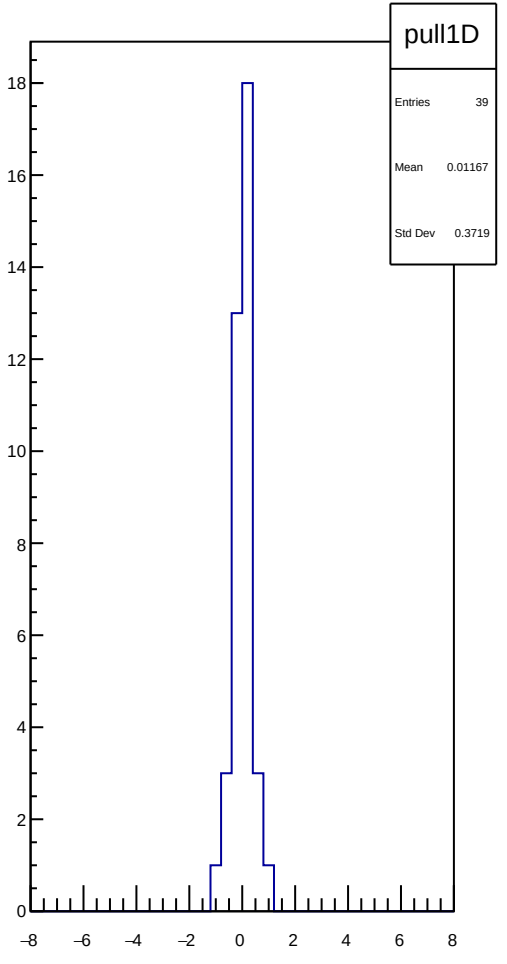

pull1D
Entries 39
Mean −0.09742
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

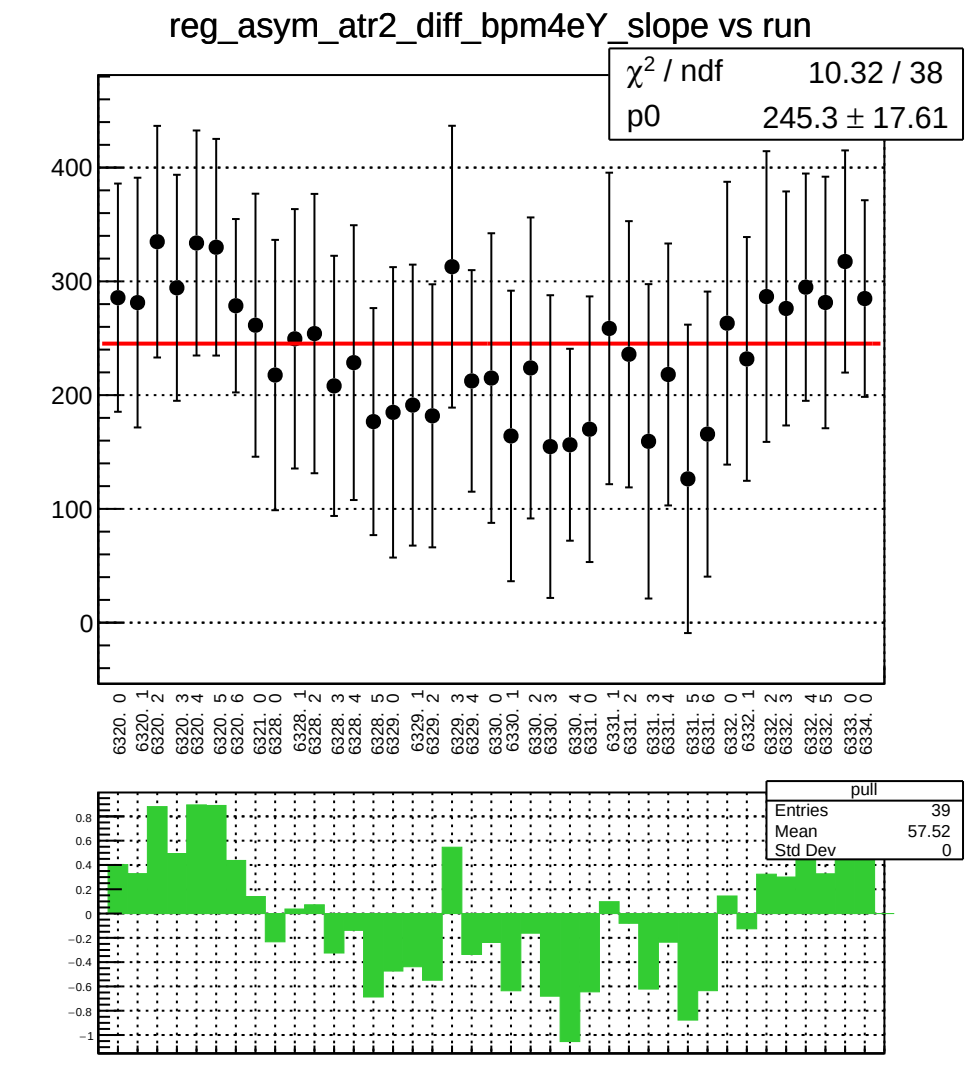

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.578 / 38
p0 −738.3 ± 21.51
−500
−600
−700
−800
−900
−1000
−1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.63
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 39
Mean −0.01569
Std Dev 0.3779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

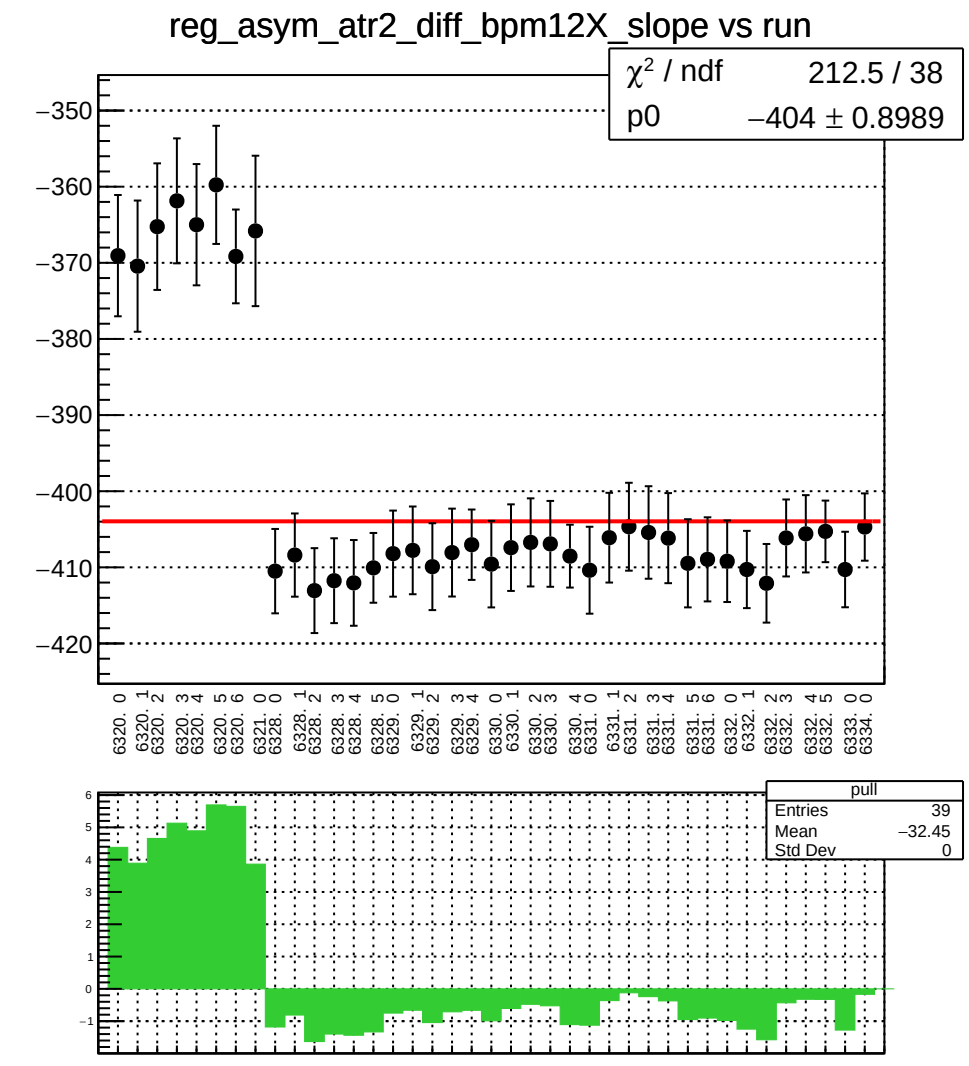

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.524 / 38
p0 −28.09 ± 15.66
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.22
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

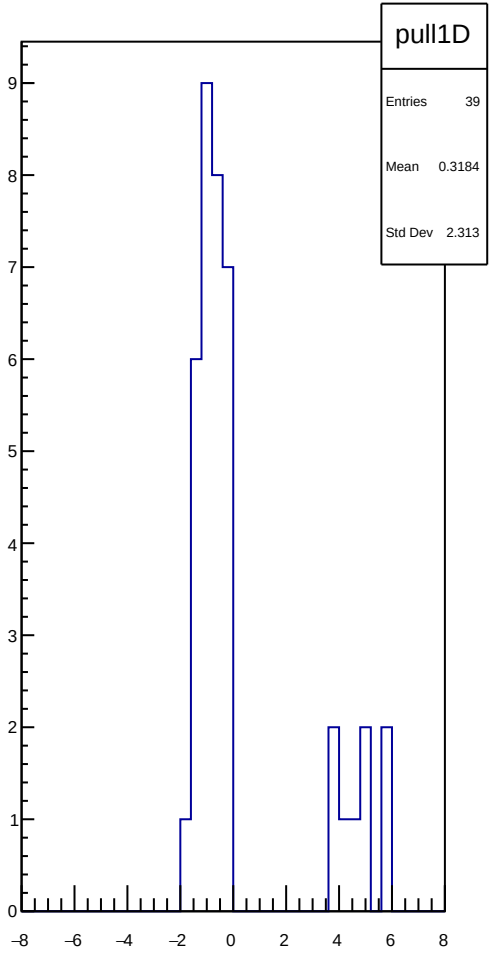

pull1D
Entries 39
Mean 0.03985
Std Dev 0.4071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

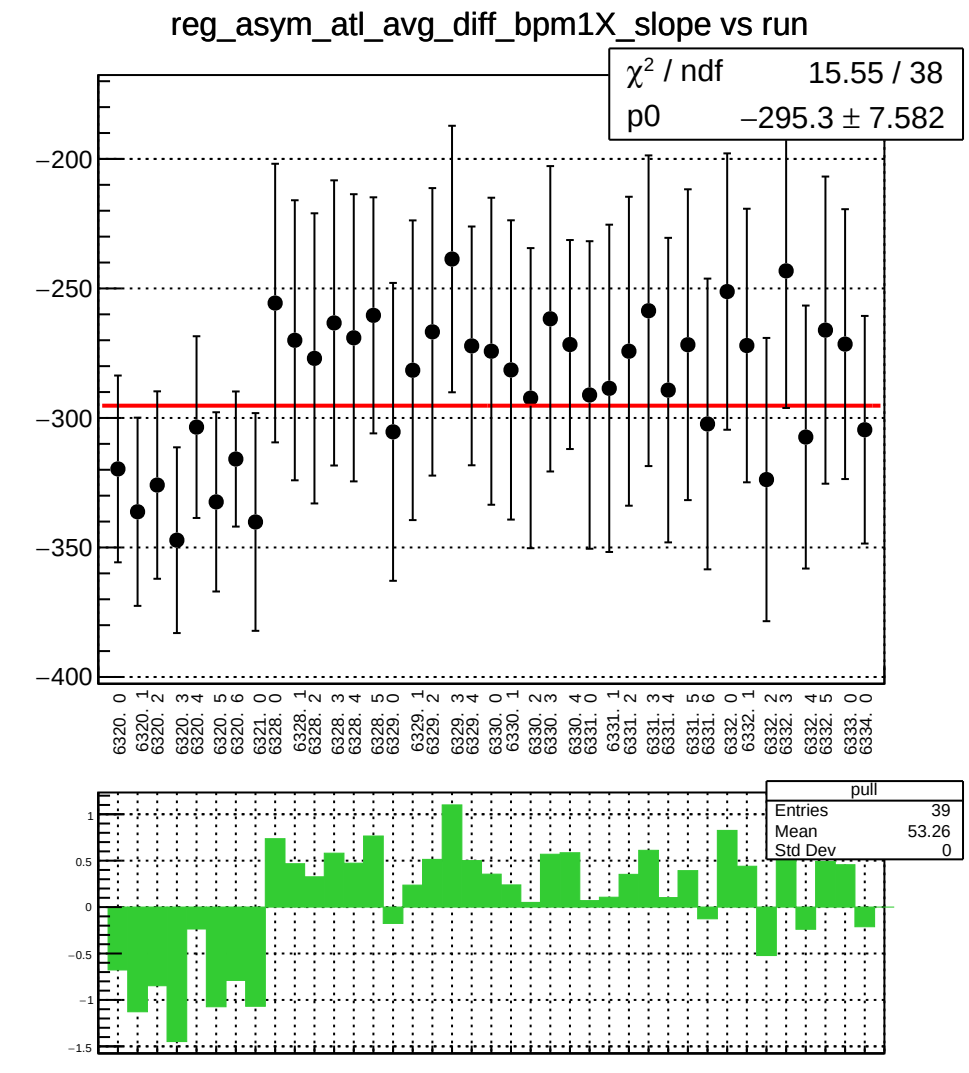

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.399 / 38
p0 911.2 ± 22.47
1300
1200
1100
1000
900
800
700
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −27.31
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

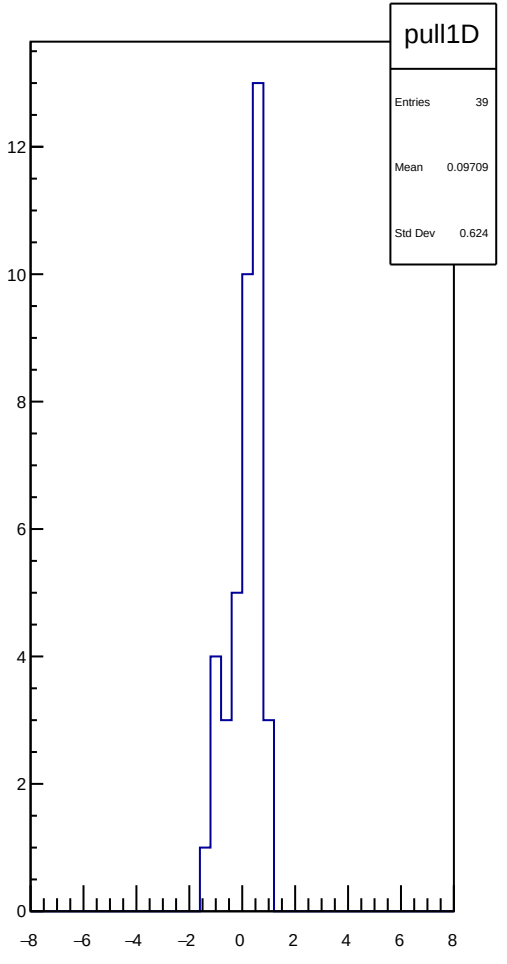

pull1D
Entries 39
Mean 0.01167
Std Dev 0.3719
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

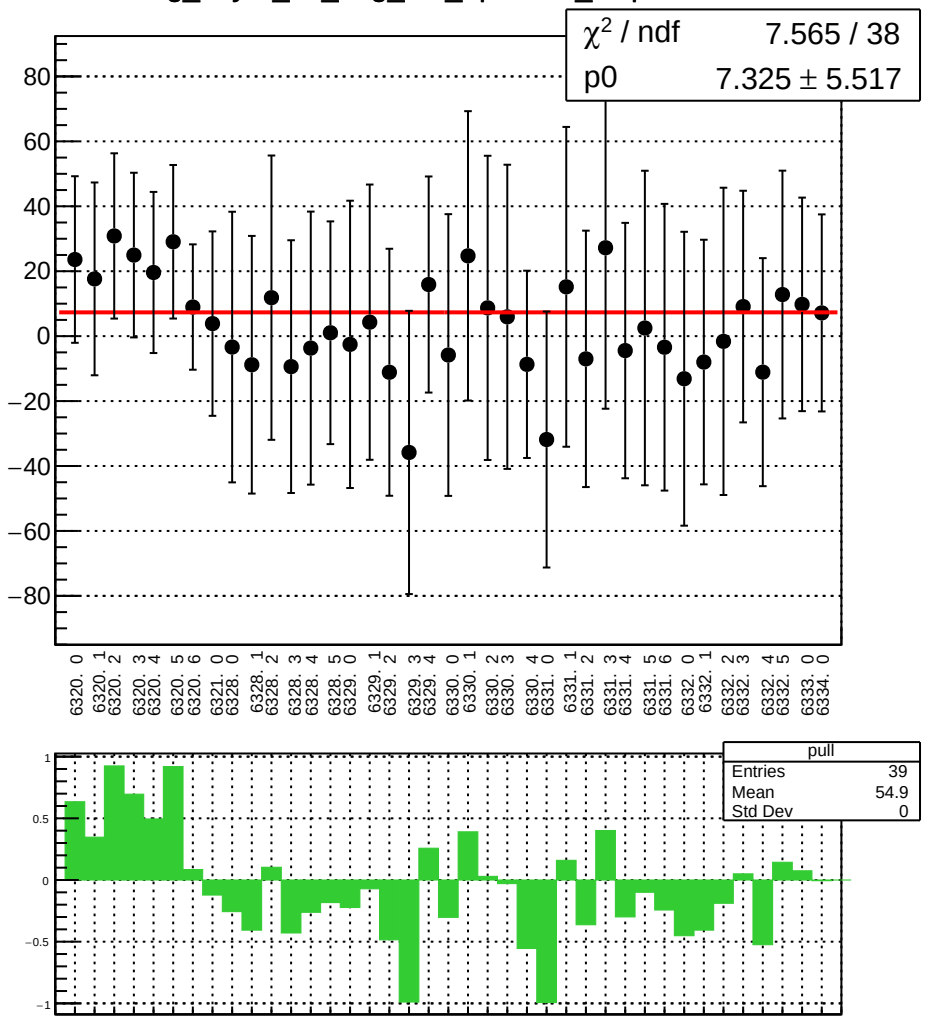

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 10.32 / 38
p0 245.3 ± 17.61
400
300
200
100
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.52
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.02969
Std Dev 0.5136
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

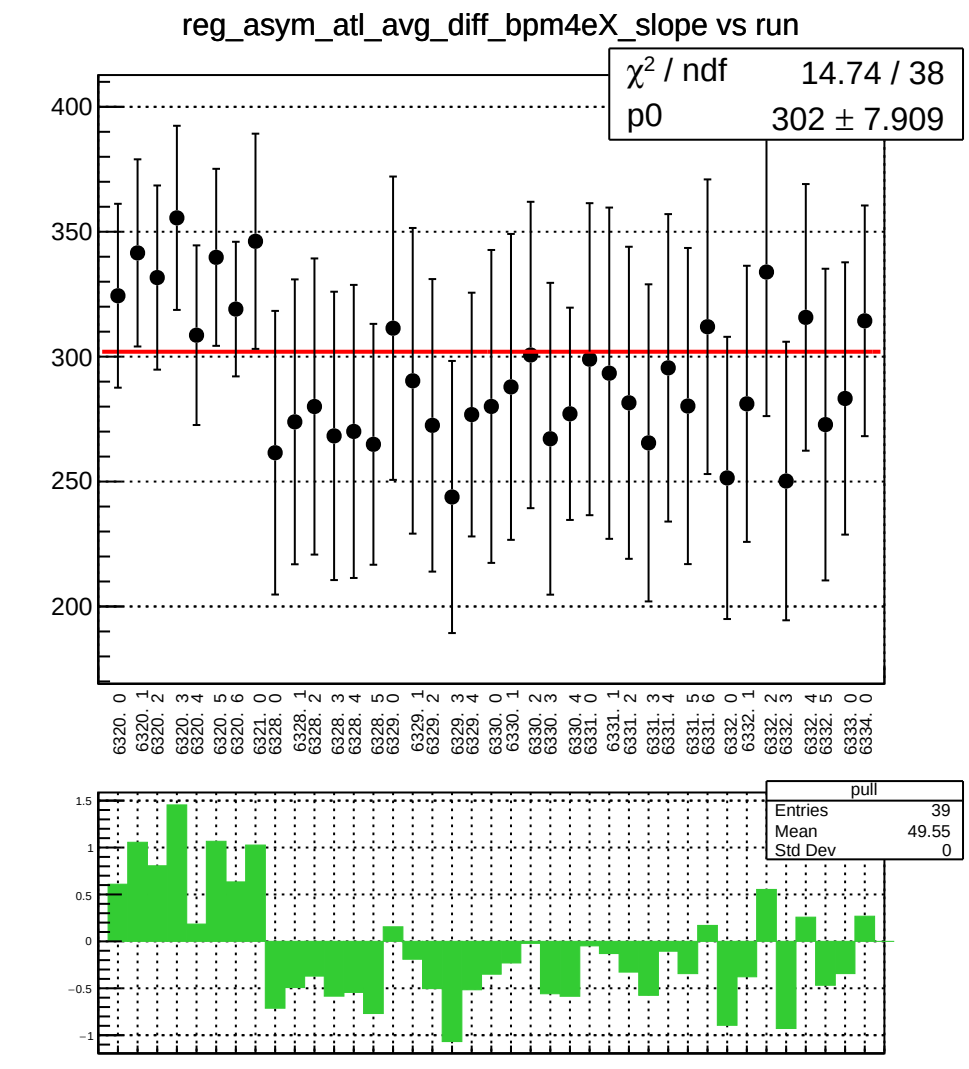

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 212.5 / 38
p0 −404 ± 0.8989
−350
−360
−370
−380
−390
−400
−410
−420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −32.45
Std Dev 0
6
5
4
3
2
1
0
−1

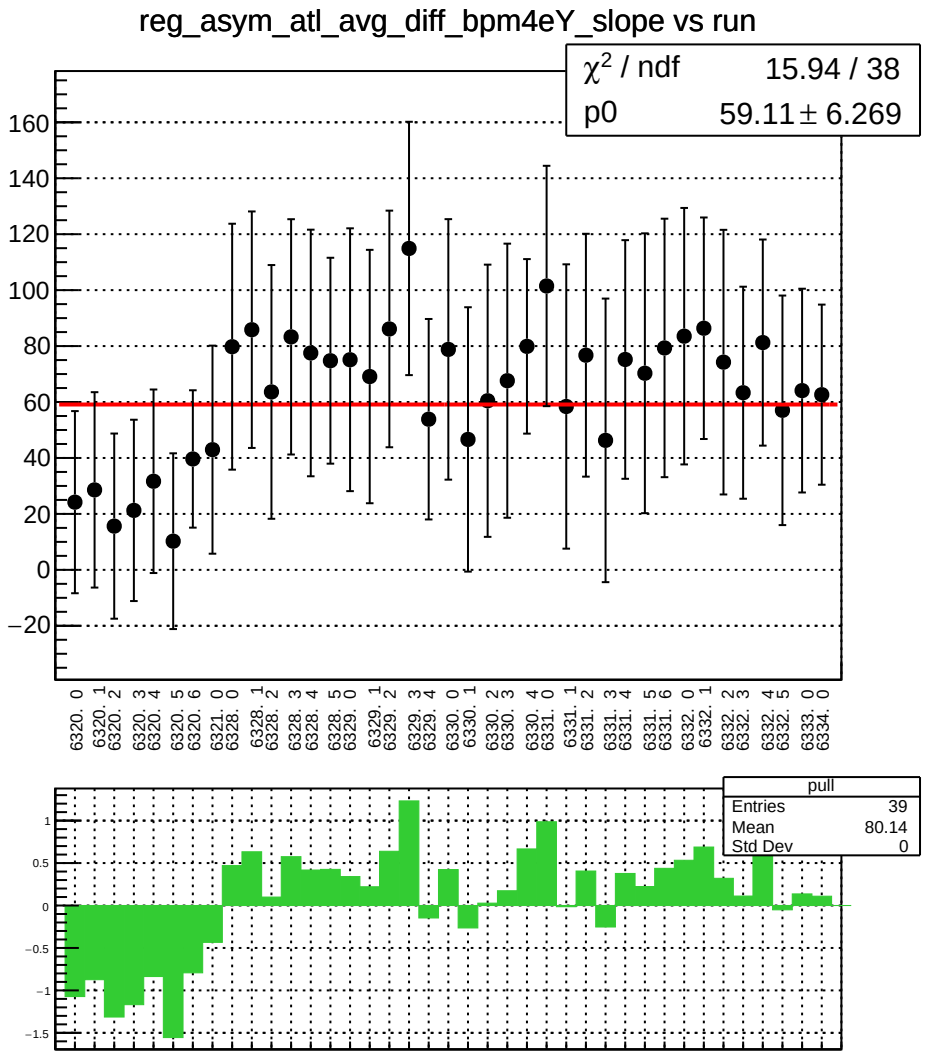

pull1D
Entries 39
Mean 0.3184
Std Dev 2.313
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

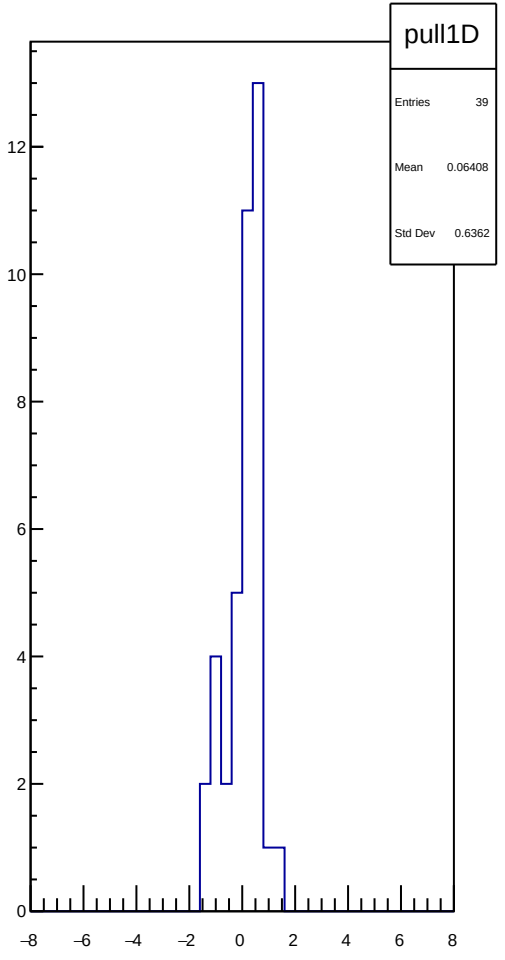

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 15.55 / 38
p0 −295.3 ± 7.582
−200
−250
−300
−350
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.26
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

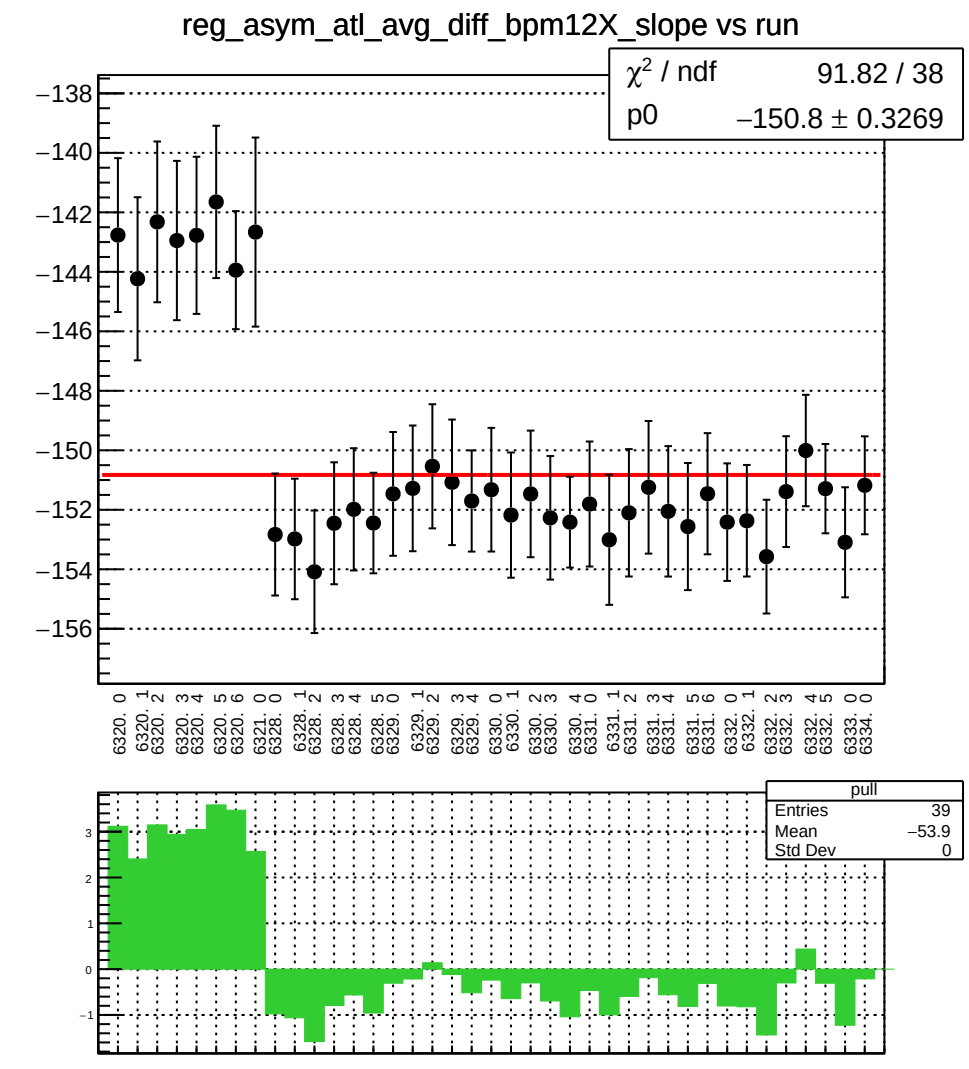

pull1D
Entries 39
Mean 0.09709
Std Dev 0.624
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

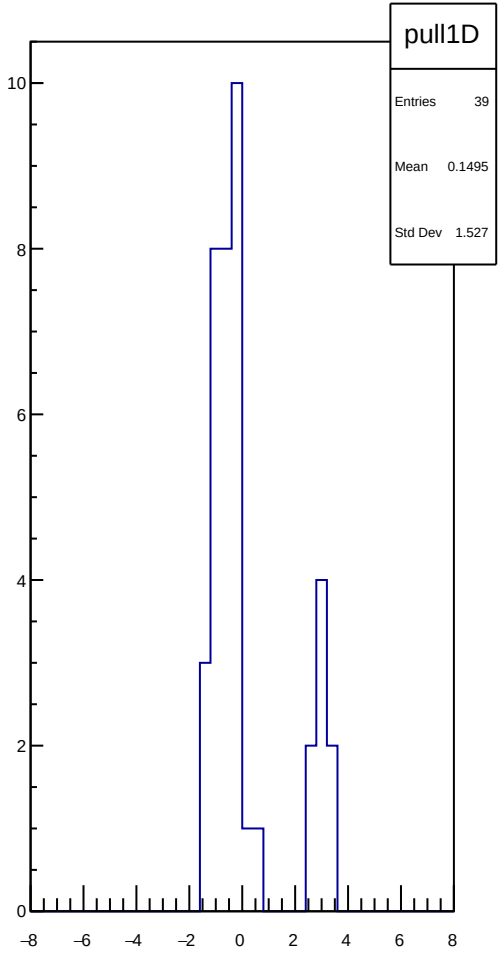

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.565 / 38
p0 7.325 ± 5.517
pull
Entries 39
Mean 54.9
Std Dev 0
pull1D
Entries 39
Mean −0.05583
Std Dev 0.4369

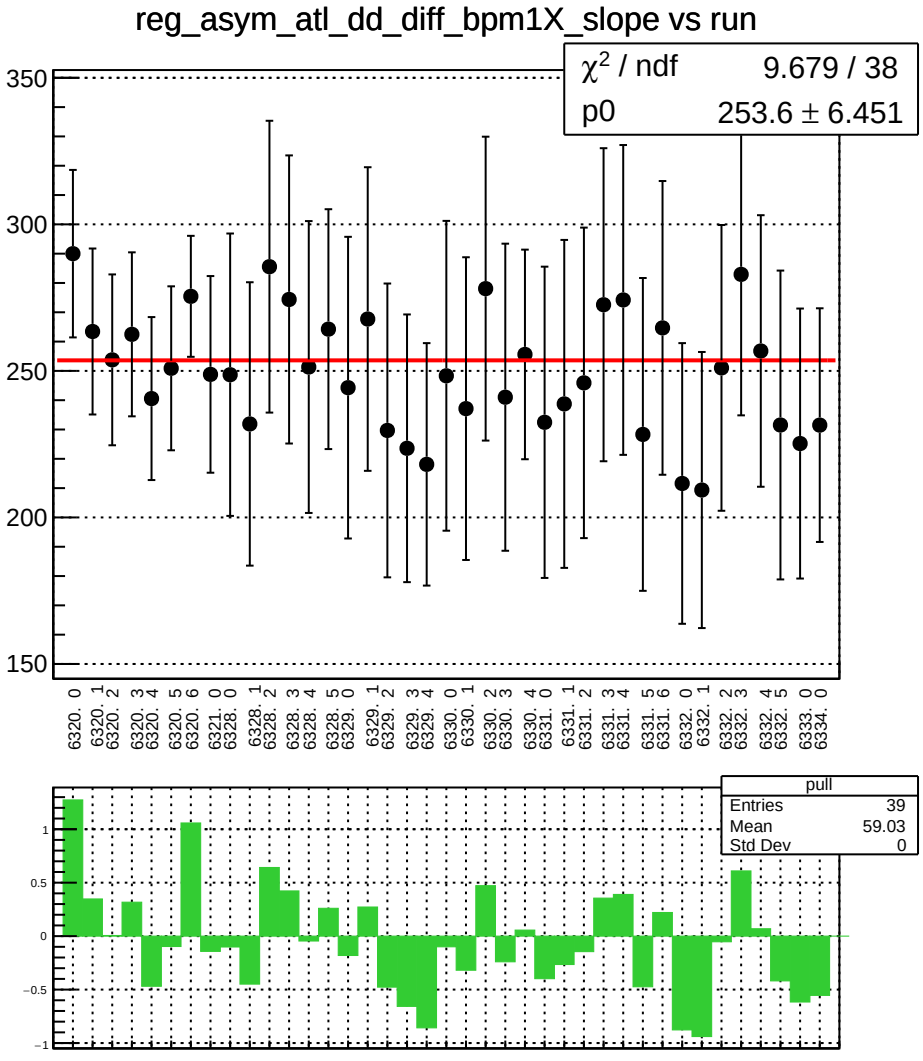

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.74 / 38
p0 302 ± 7.909
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.09719
Std Dev 0.607
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

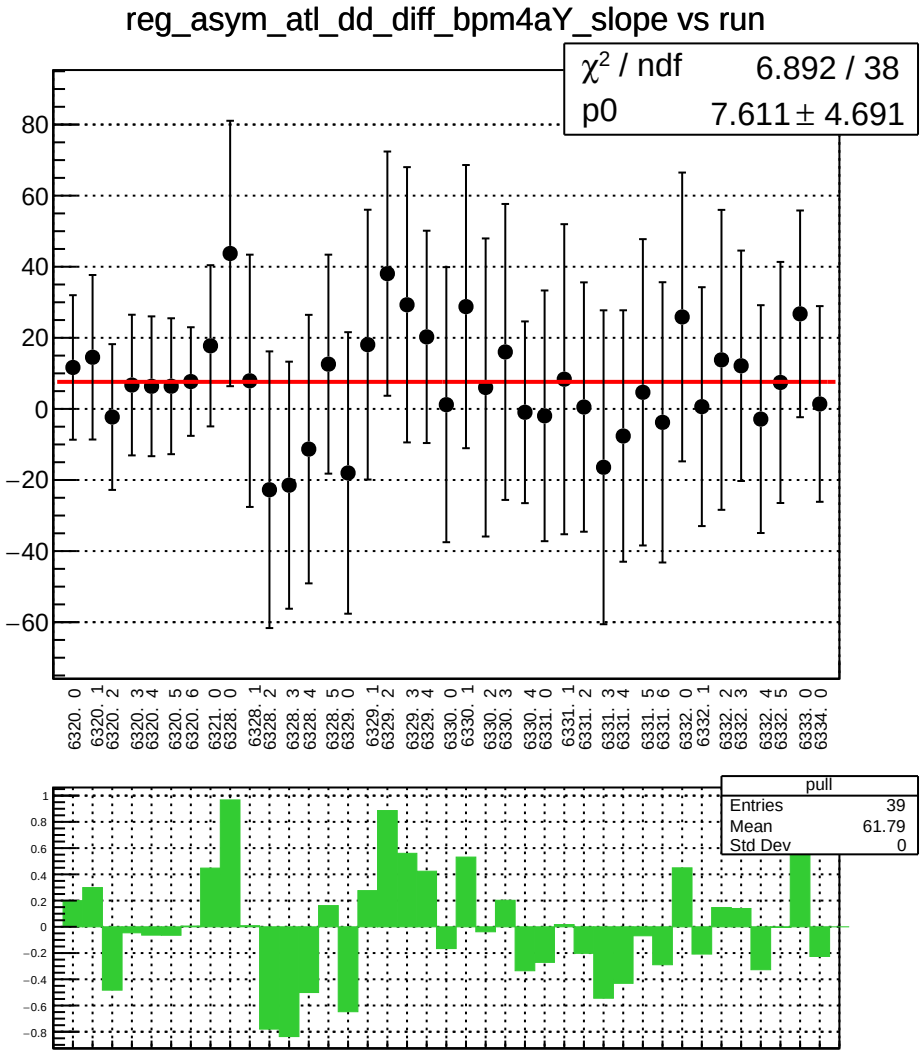

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.94 / 38
p0 59.11 ± 6.269
160
140
120
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 80.14
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

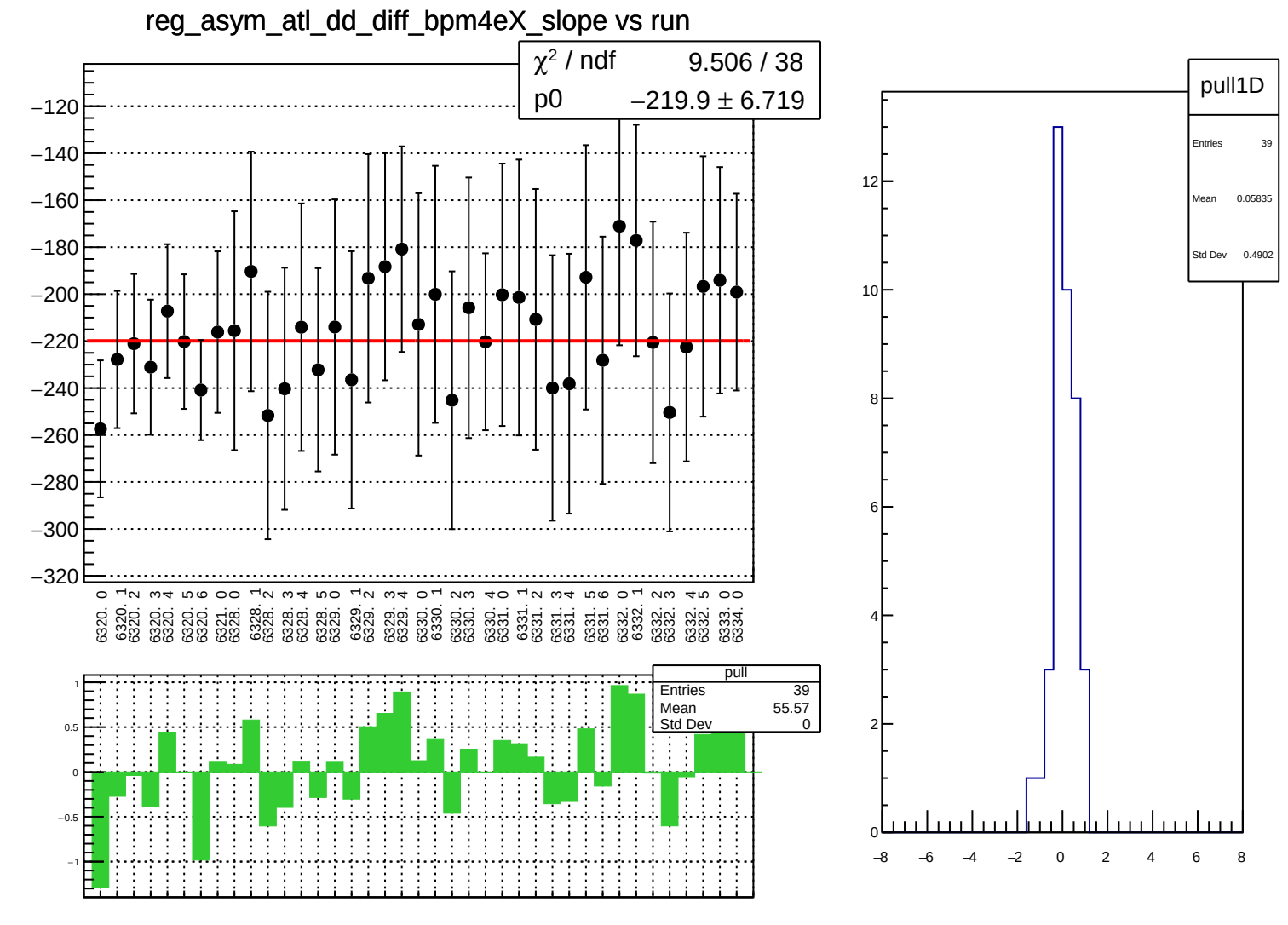

pull1D
Entries 39
Mean 0.06408
Std Dev 0.6362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

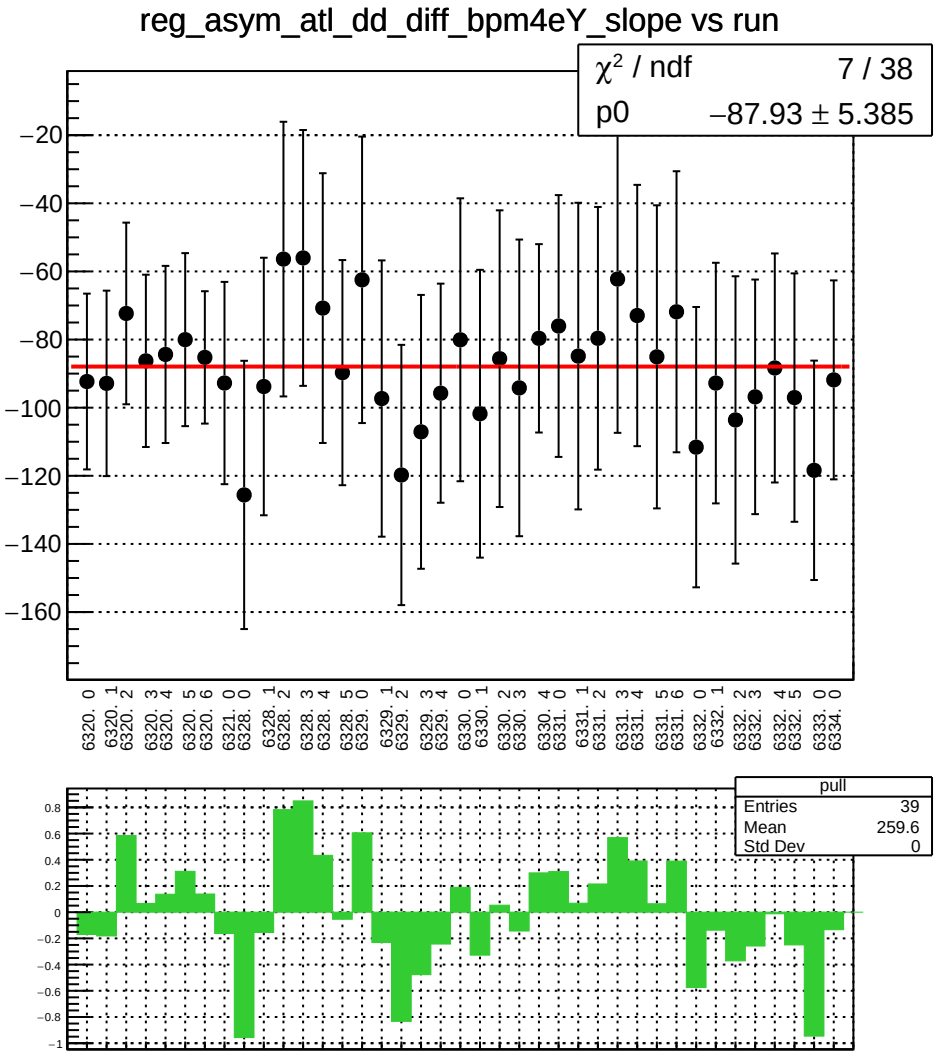

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 91.82 / 38
p0 −150.8 ± 0.3269
pull
Entries 39
Mean −53.9
Std Dev 0

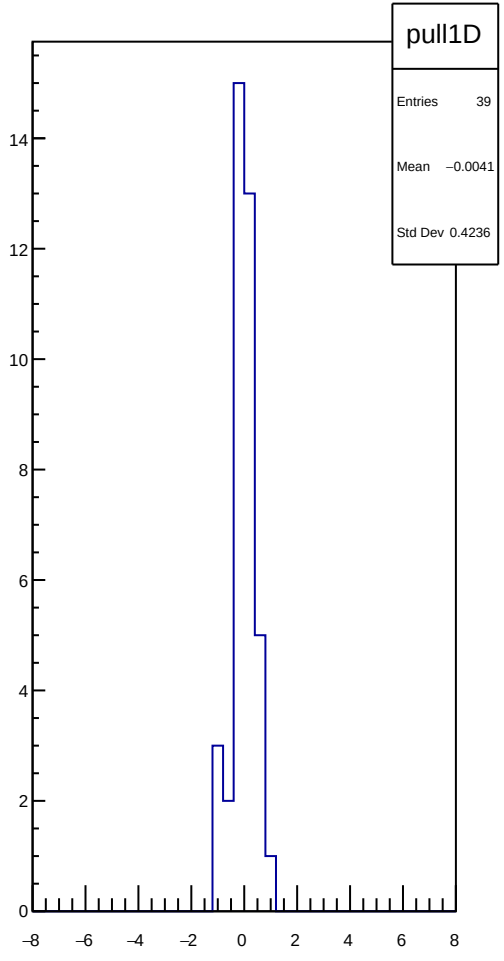

pull1D
Entries 39
Mean 0.1495
Std Dev 1.527

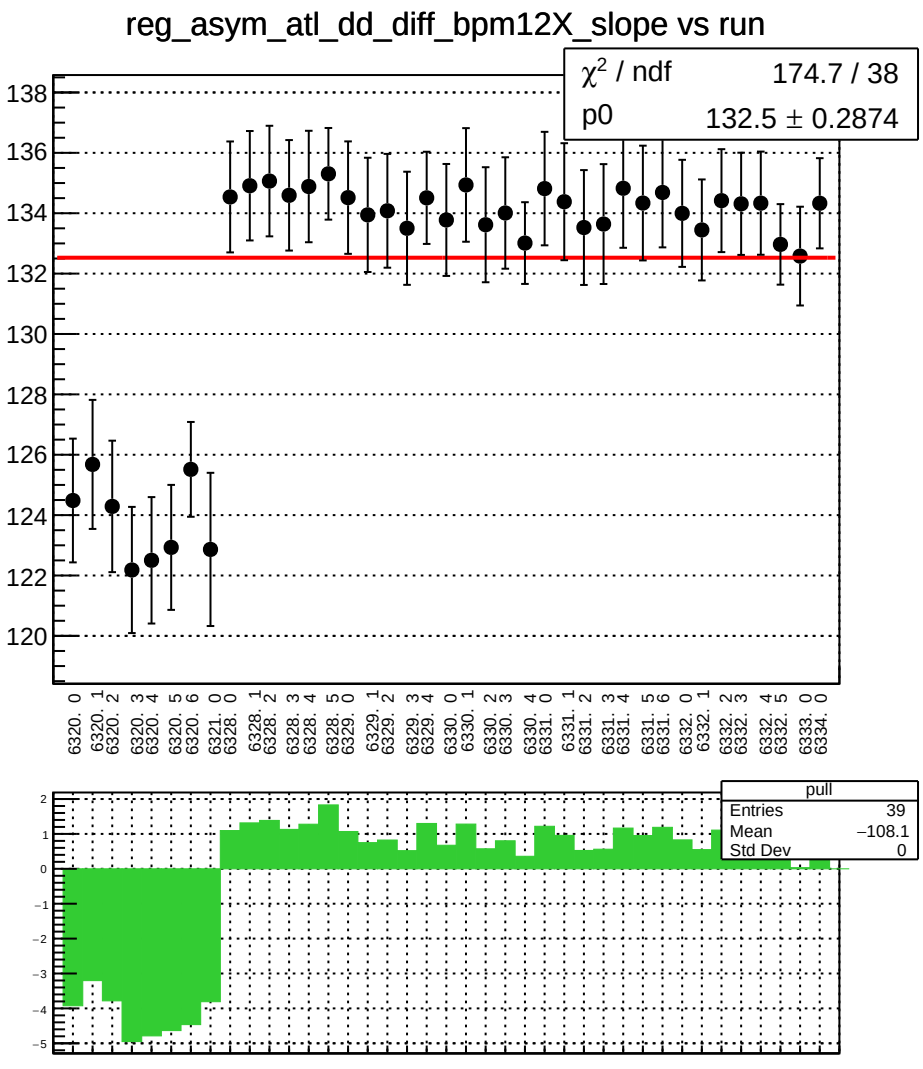

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.679 / 38
p0 253.6 ± 6.451
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 59.03
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.05388
Std Dev 0.4953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

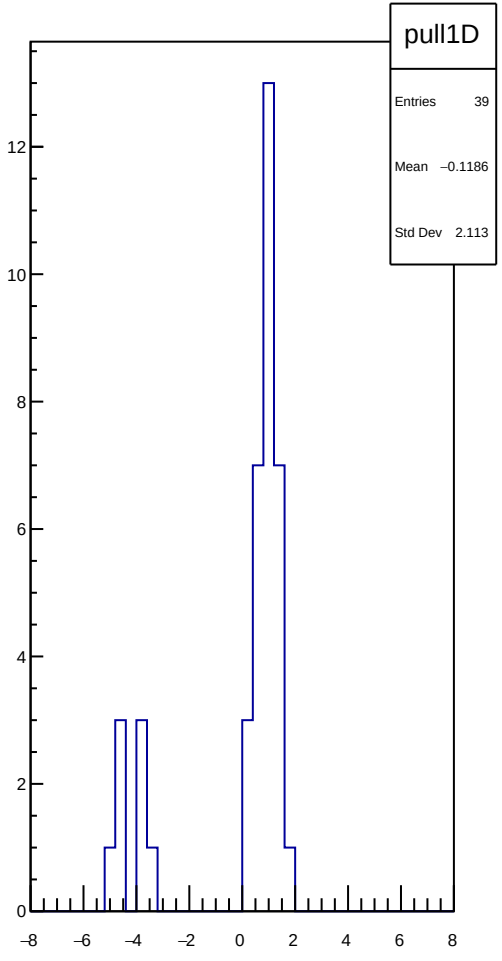

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.892 / 38
p0 7.611 ± 4.691
pull
Entries 39
Mean 61.79
Std Dev 0
pull1D
Entries 39
Mean −0.003841
Std Dev 0.4204

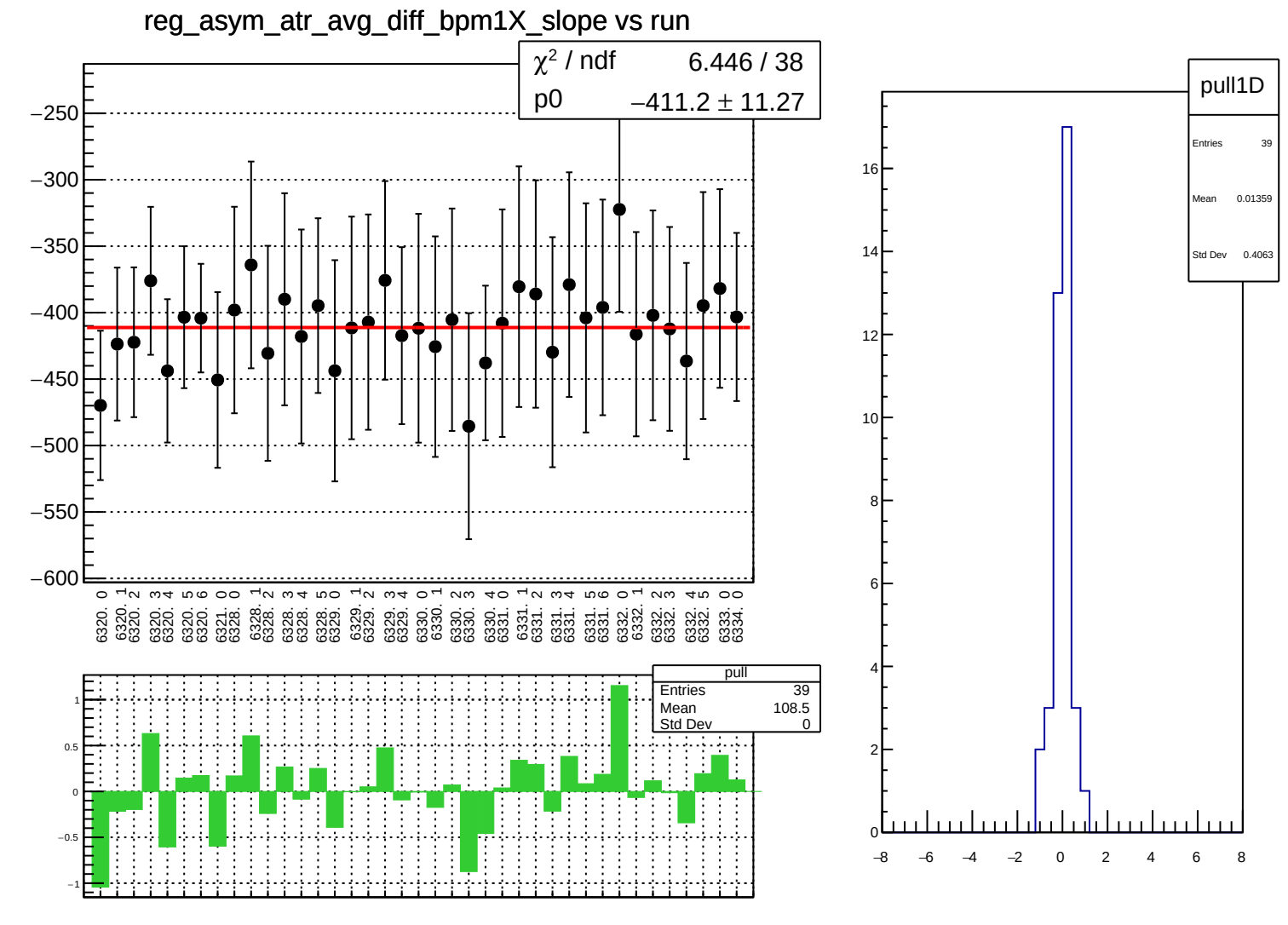

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.506 / 38
p0 −219.9 ± 6.719
pull
Entries 39
Mean 55.57
Std Dev 0
pull1D
Entries 39
Mean 0.05835
Std Dev 0.4902

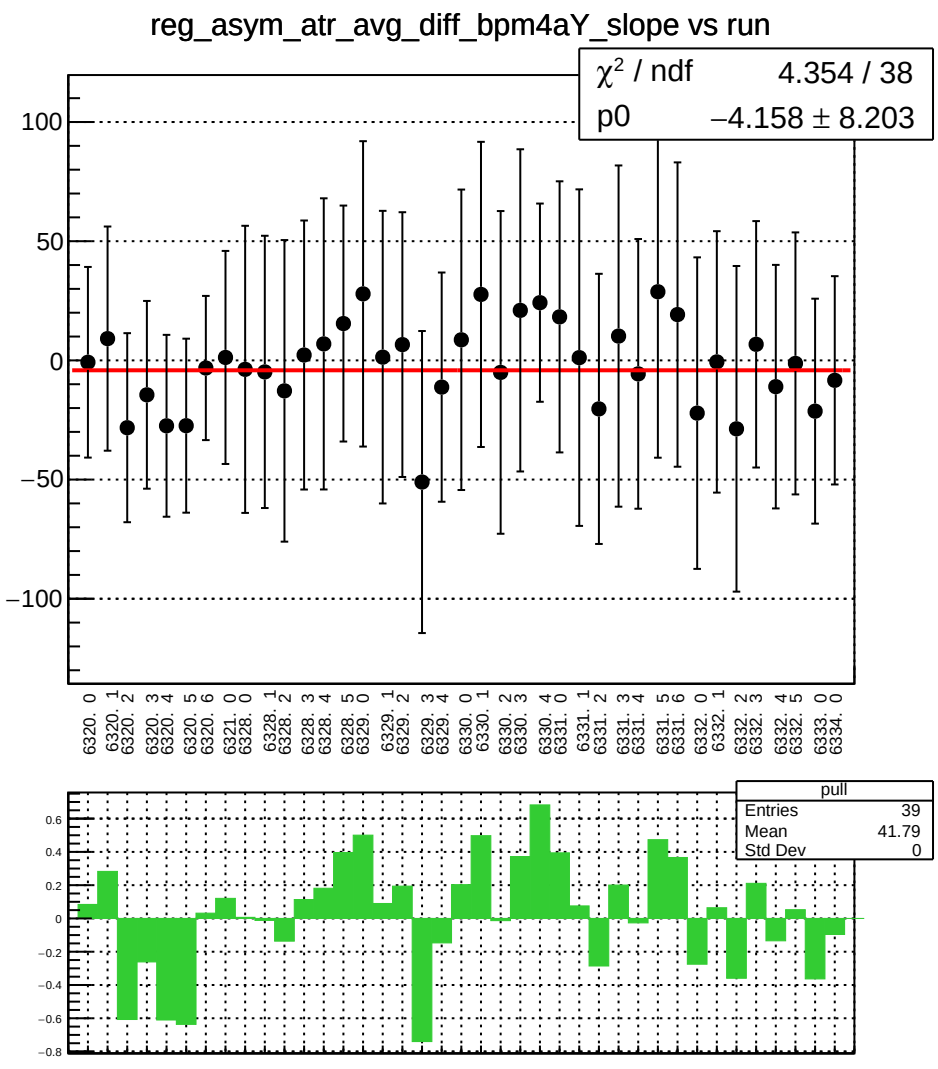

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 7 / 38
p0 −87.93 ± 5.385
pull
Entries 39
Mean 259.6
Std Dev 0

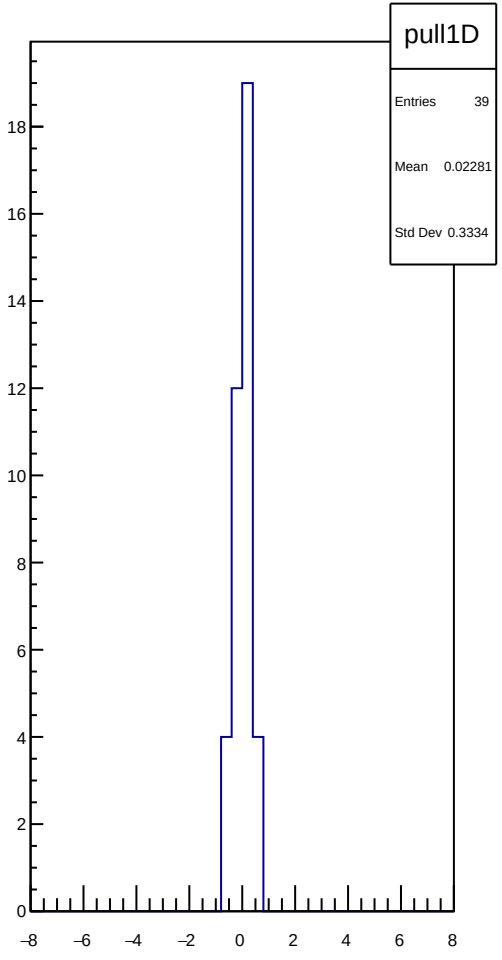

pull1D
Entries 39
Mean −0.0041
Std Dev 0.4236

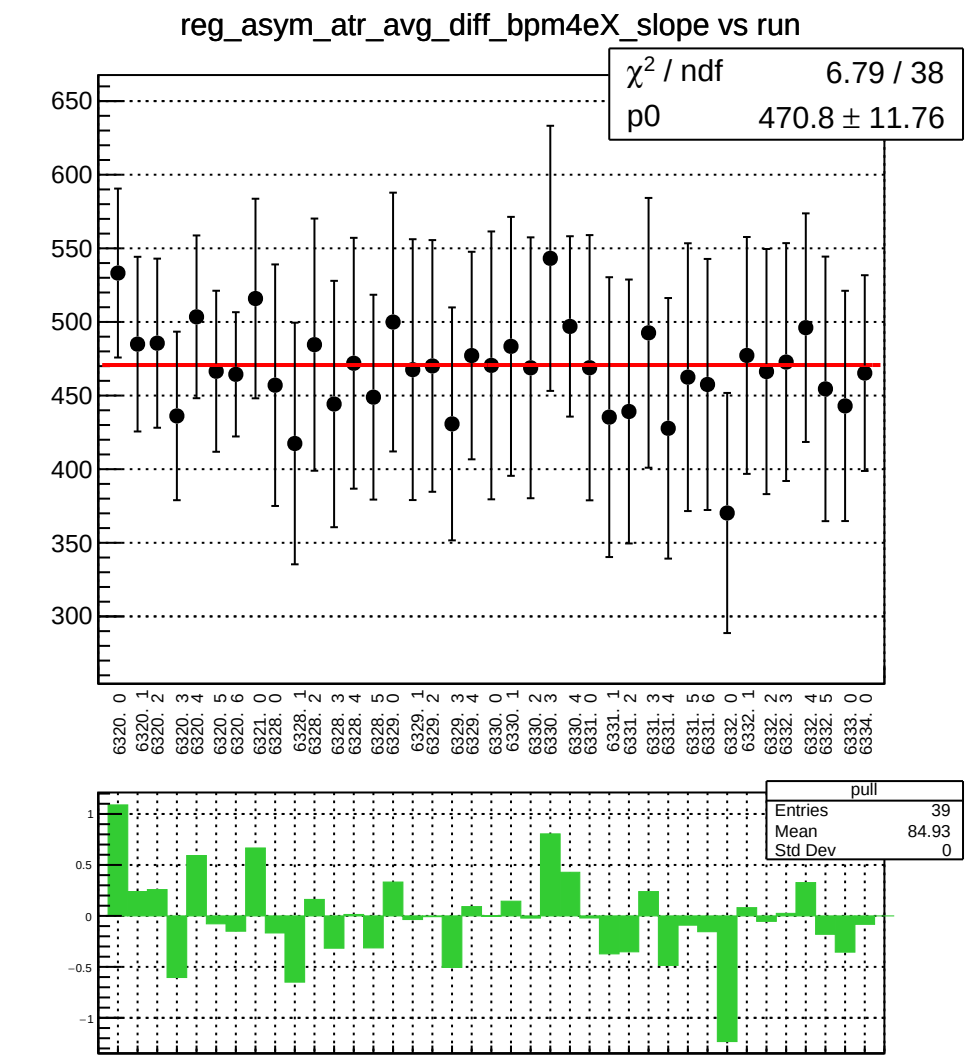

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 174.7 / 38
p0 132.5 ± 0.2874
pull
Entries 39
Mean −108.1
Std Dev 0

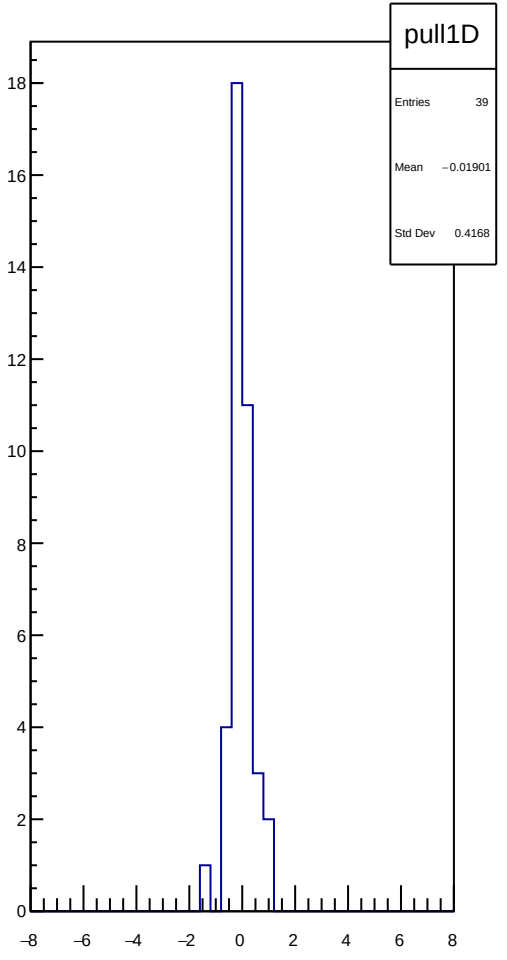

pull1D
Entries 39
Mean −0.1186
Std Dev 2.113

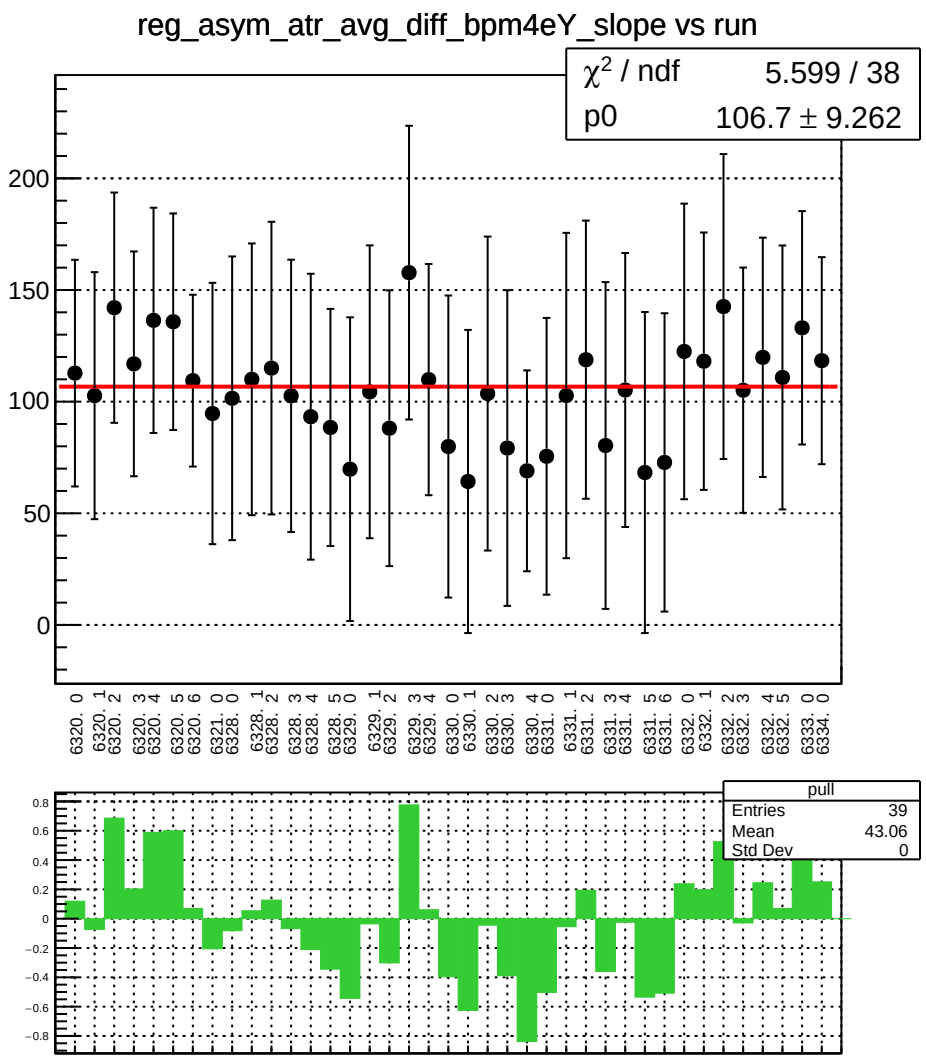

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 6.446 / 38
p0 −411.2 ± 11.27
−250
−300
−350
−400
−450
−500
−550
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 108.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.01359
Std Dev 0.4063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

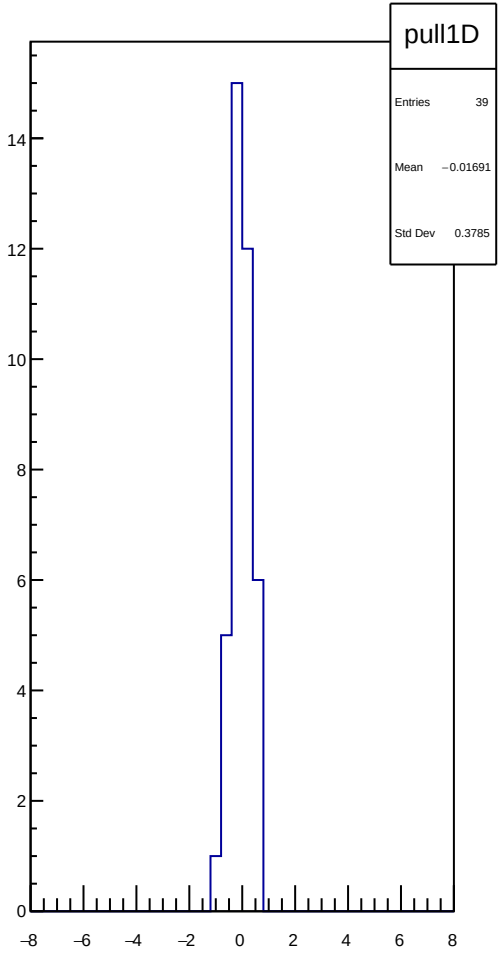

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.354 / 38
p0 −4.158 ± 8.203
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 41.79
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

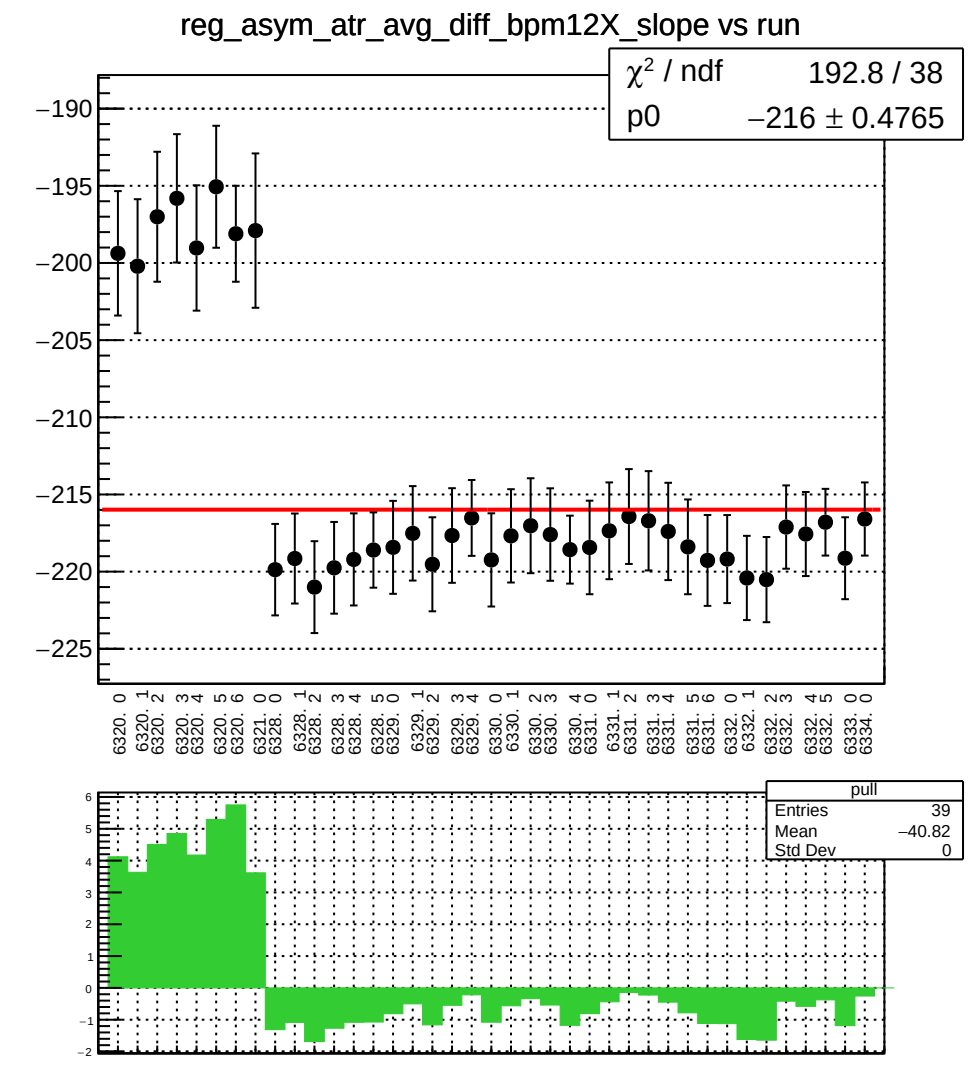

pull1D
Entries 39
Mean 0.02281
Std Dev 0.3334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

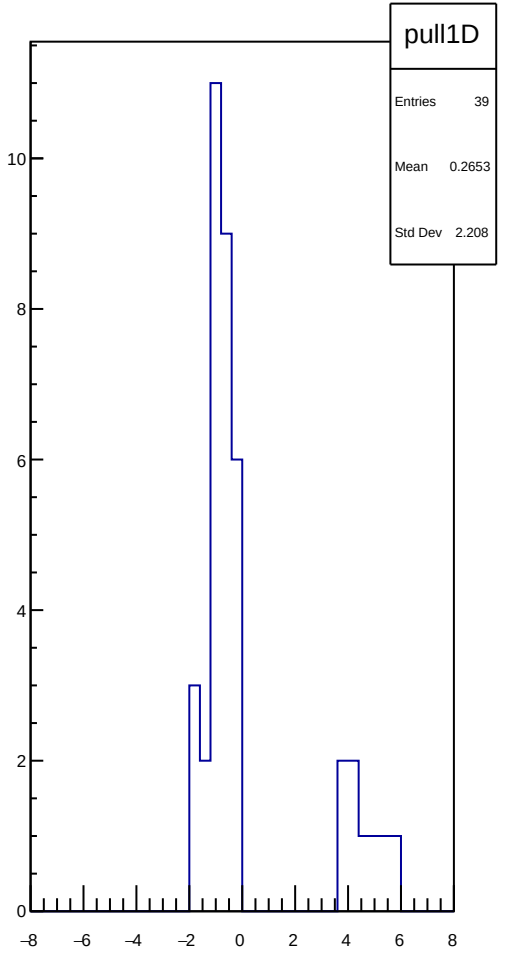

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.79 / 38
p0 470.8 ± 11.76
650
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 84.93
Std Dev 0
1
0.5
0
−0.5
−1

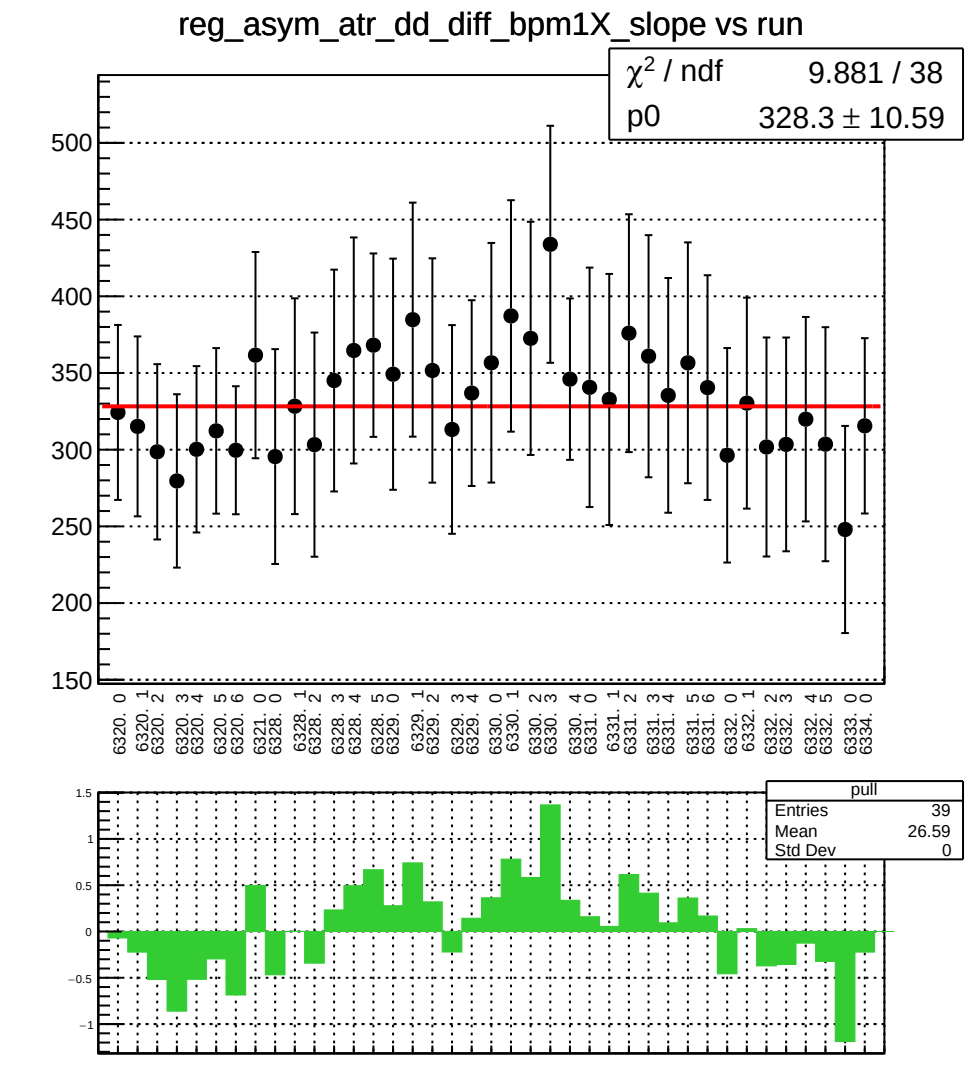

pull1D
Entries 39
Mean −0.01901
Std Dev 0.4168
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

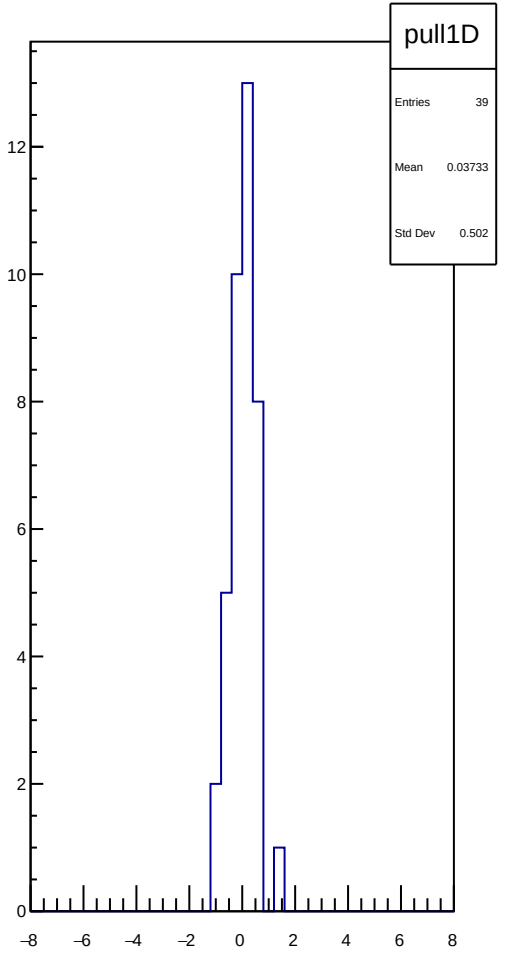

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.599 / 38
p0 106.7 ± 9.262
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 43.06
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

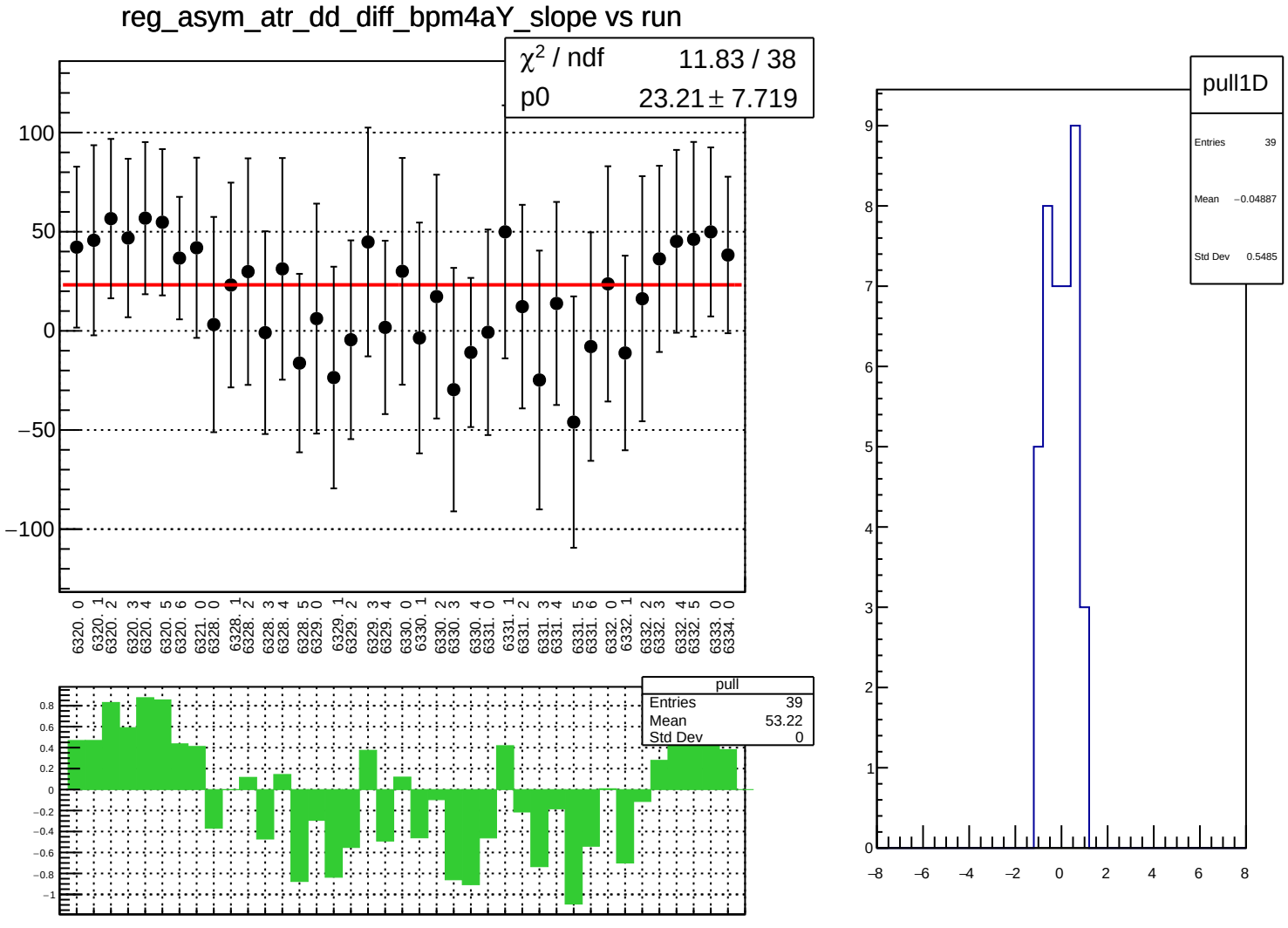

pull1D
Entries 39
Mean −0.01691
Std Dev 0.3785
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

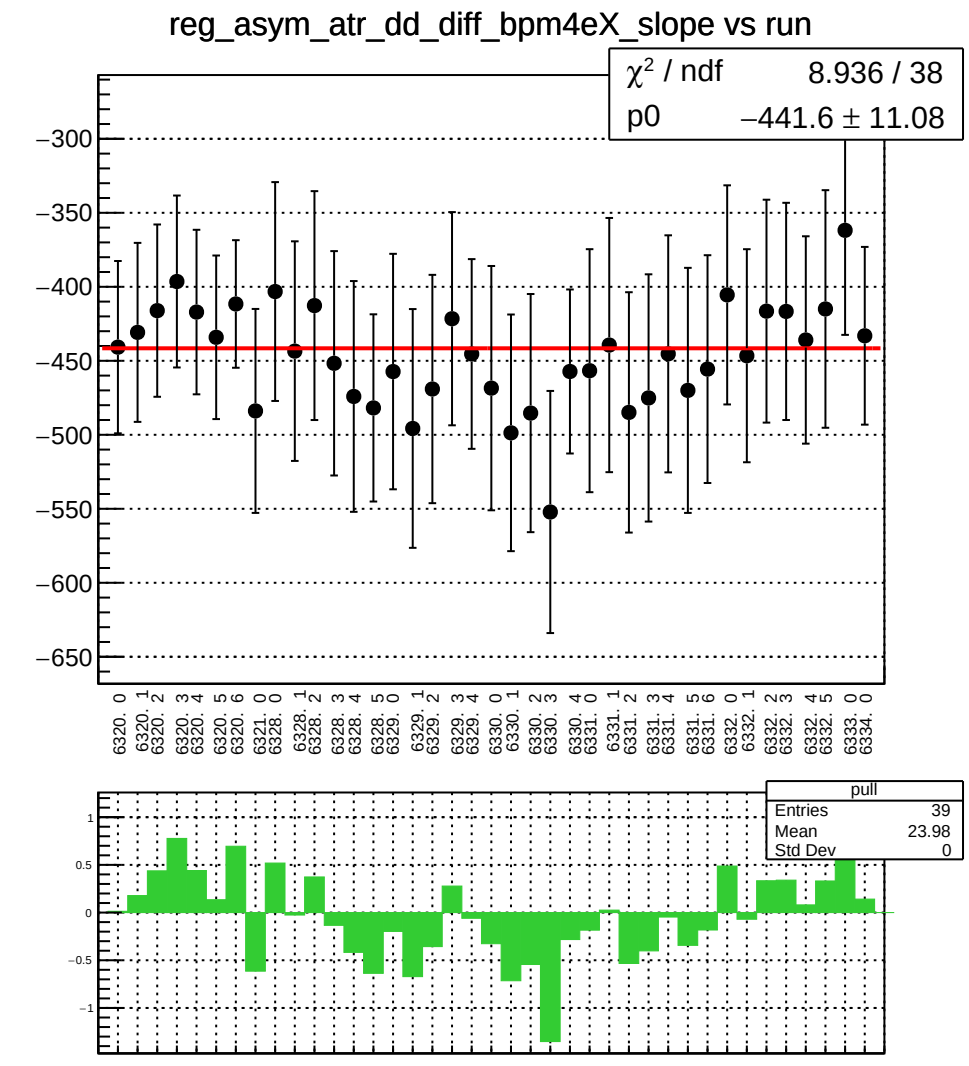

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 192.8 / 38
p0 −216 ± 0.4765
−190
−195
−200
−205
−210
−215
−220
−225
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.82
Std Dev 0
6
5
4
3
2
1
0
−1
−2

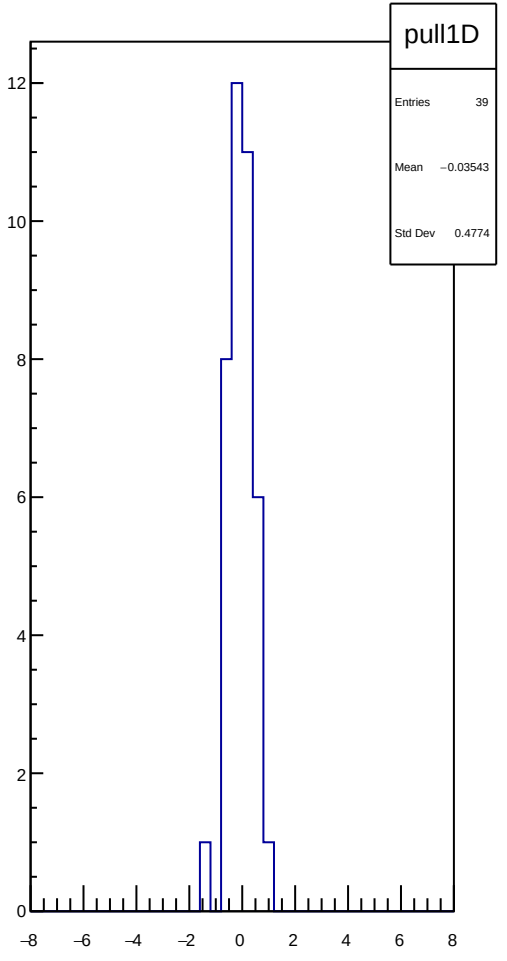

pull1D
Entries 39
Mean 0.2653
Std Dev 2.208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

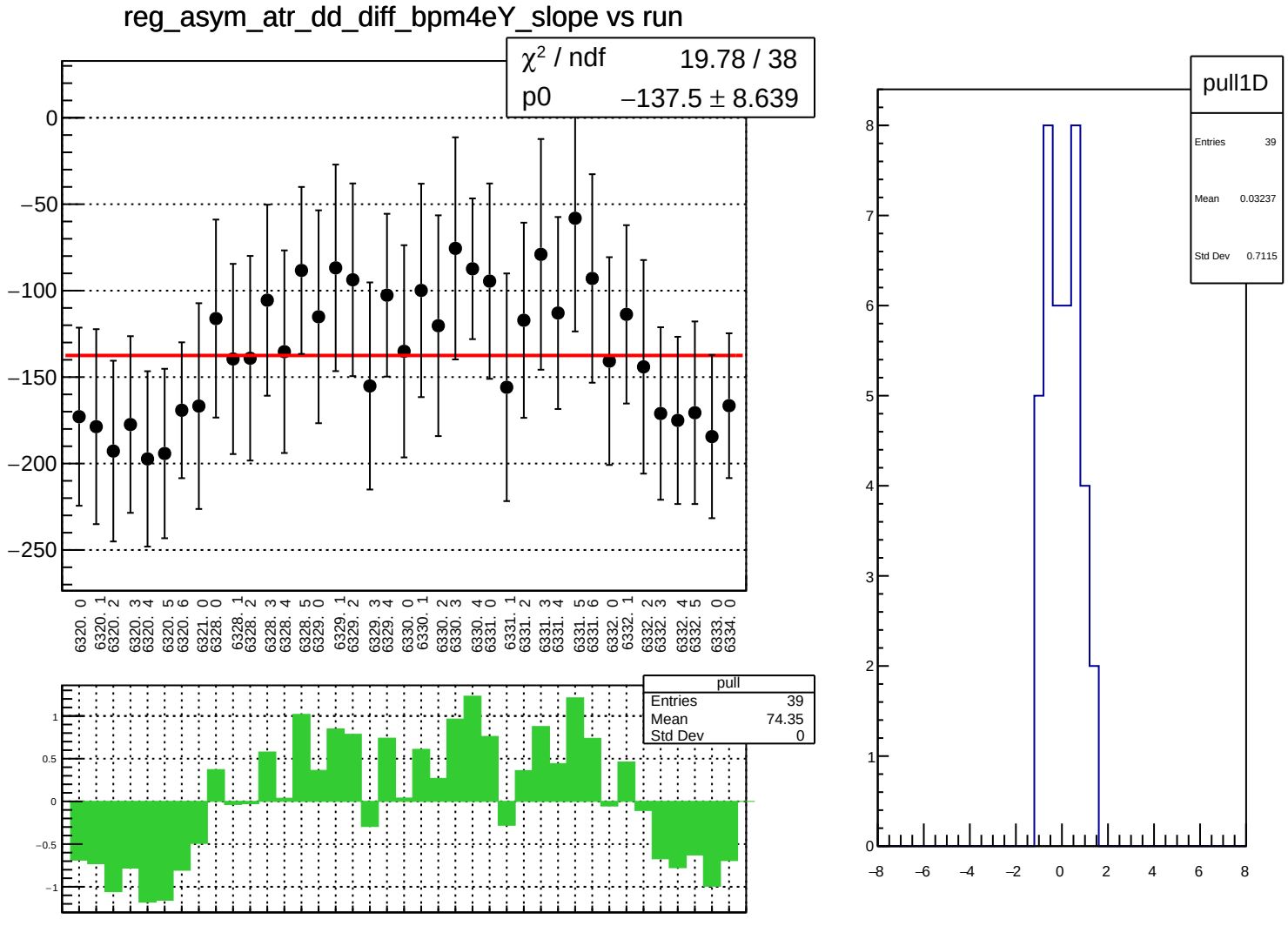

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.881 / 38
p0 328.3 ± 10.59
500
450
400
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1

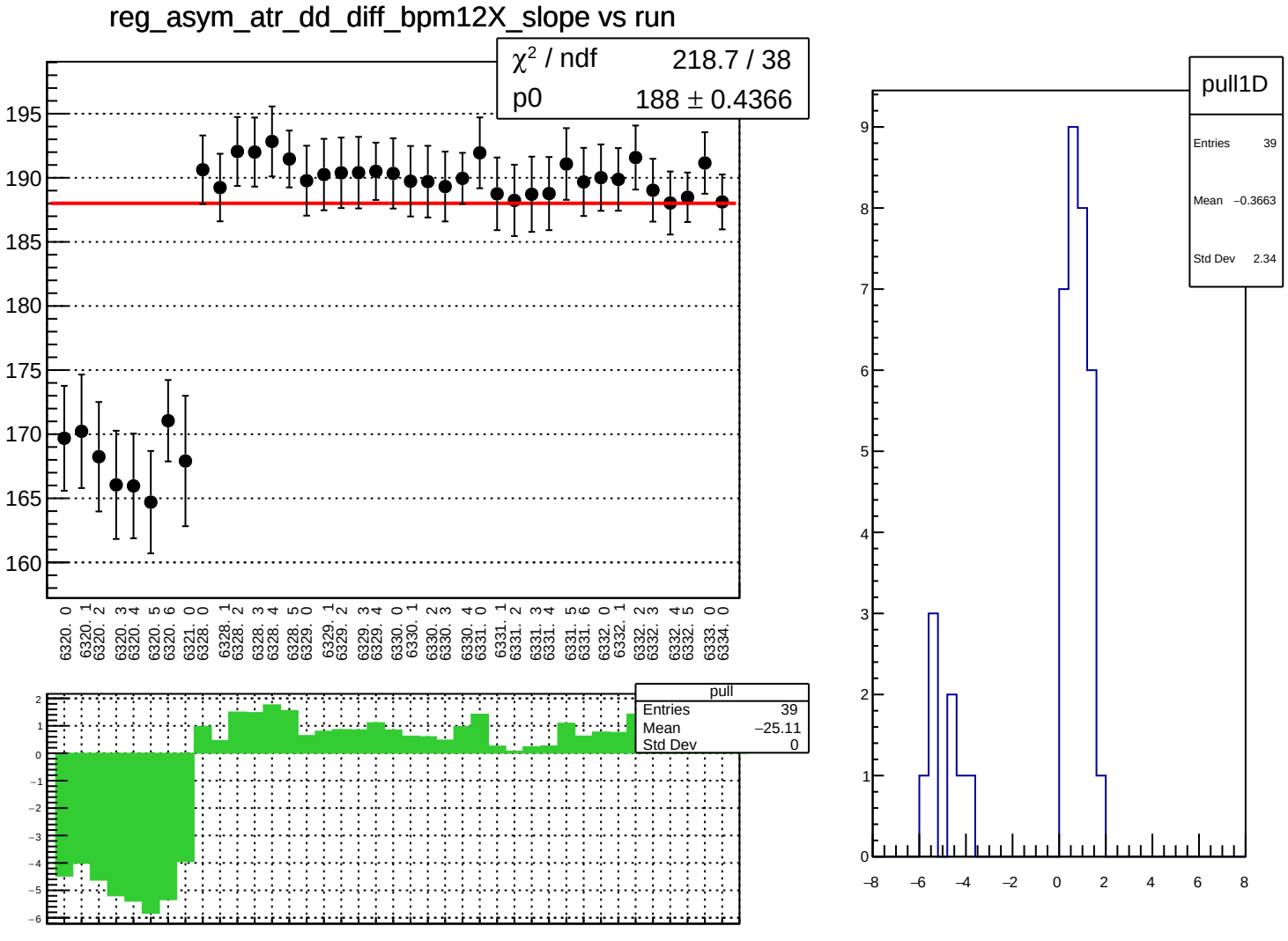

pull1D
Entries 39
Mean 0.03733
Std Dev 0.502
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

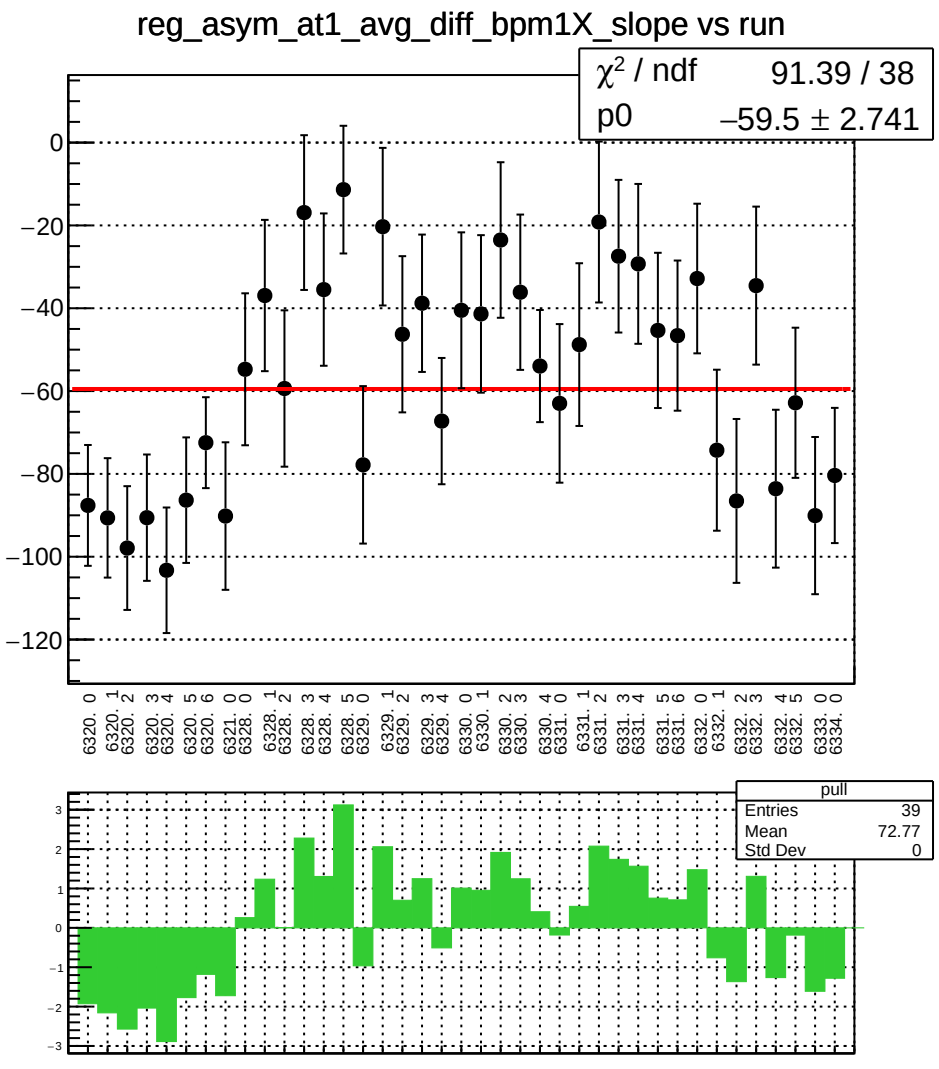

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.83 / 38
p0 23.21 ± 7.719
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 53.22
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.04887
Std Dev 0.5485
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

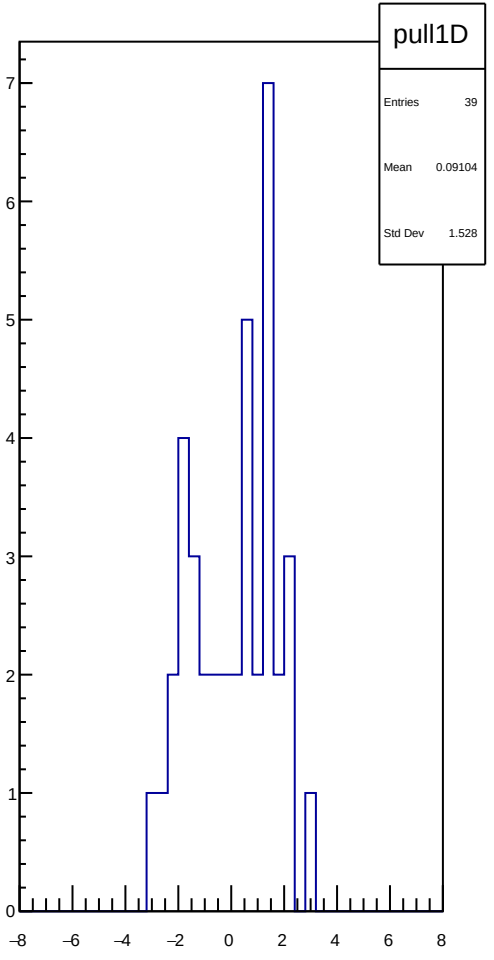

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.936 / 38
p0 −441.6 ± 11.08
−300
−350
−400
−450
−500
−550
−600
−650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.98
Std Dev 0
1
0.5
0
−0.5
−1

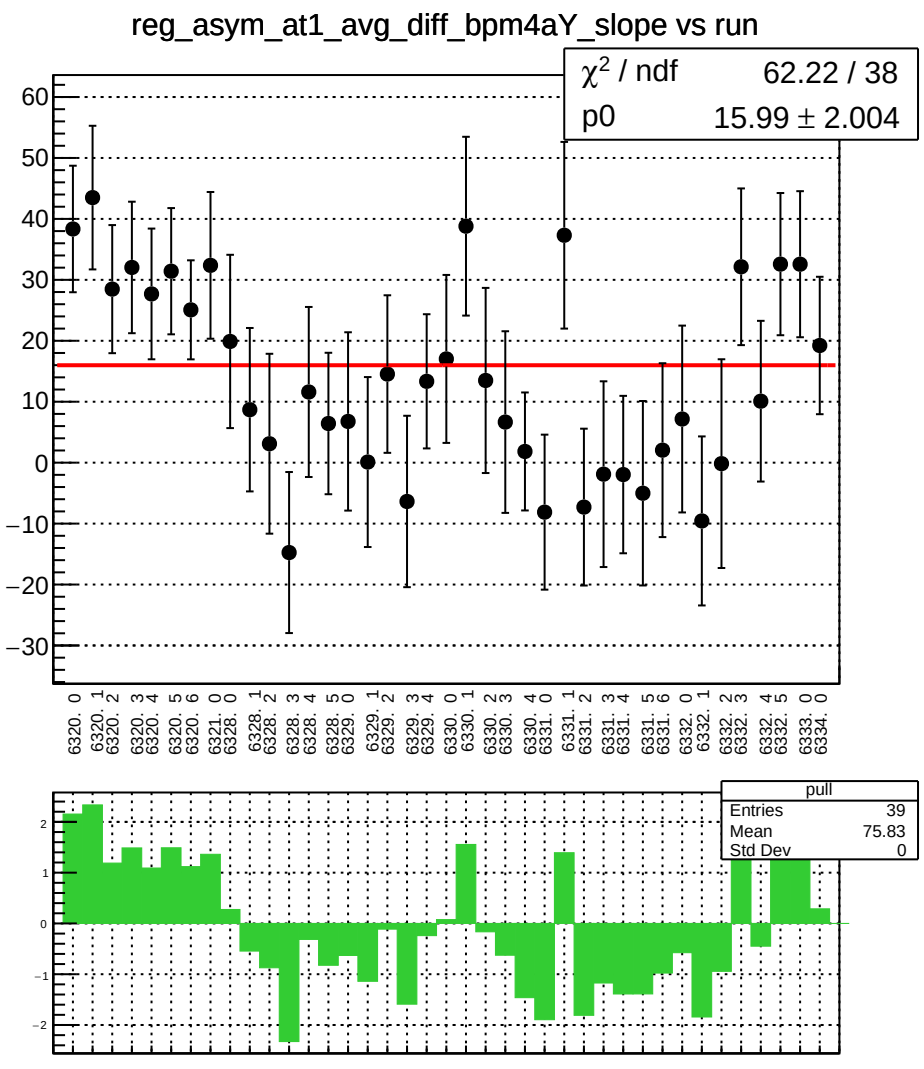

pull1D
Entries 39
Mean −0.03543
Std Dev 0.4774
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

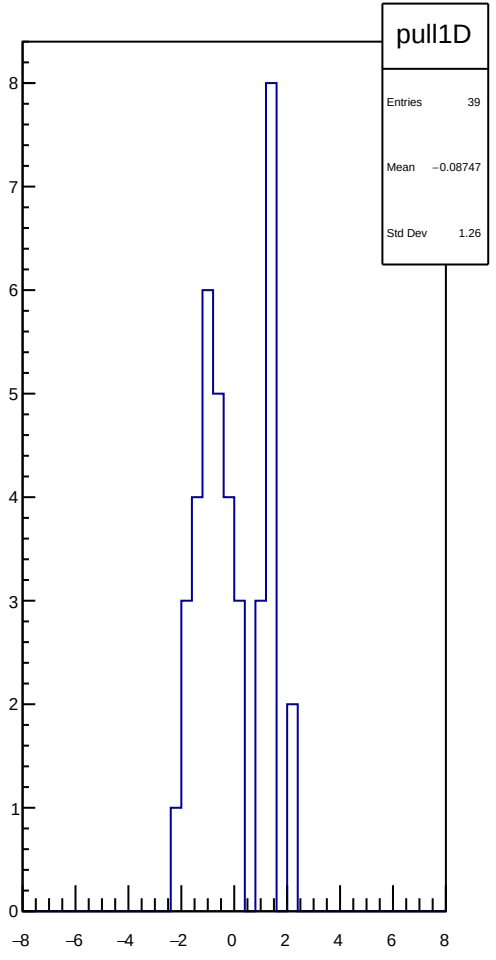

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.78 / 38
p0 −137.5 ± 8.639
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74.35
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.03237
Std Dev 0.7115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

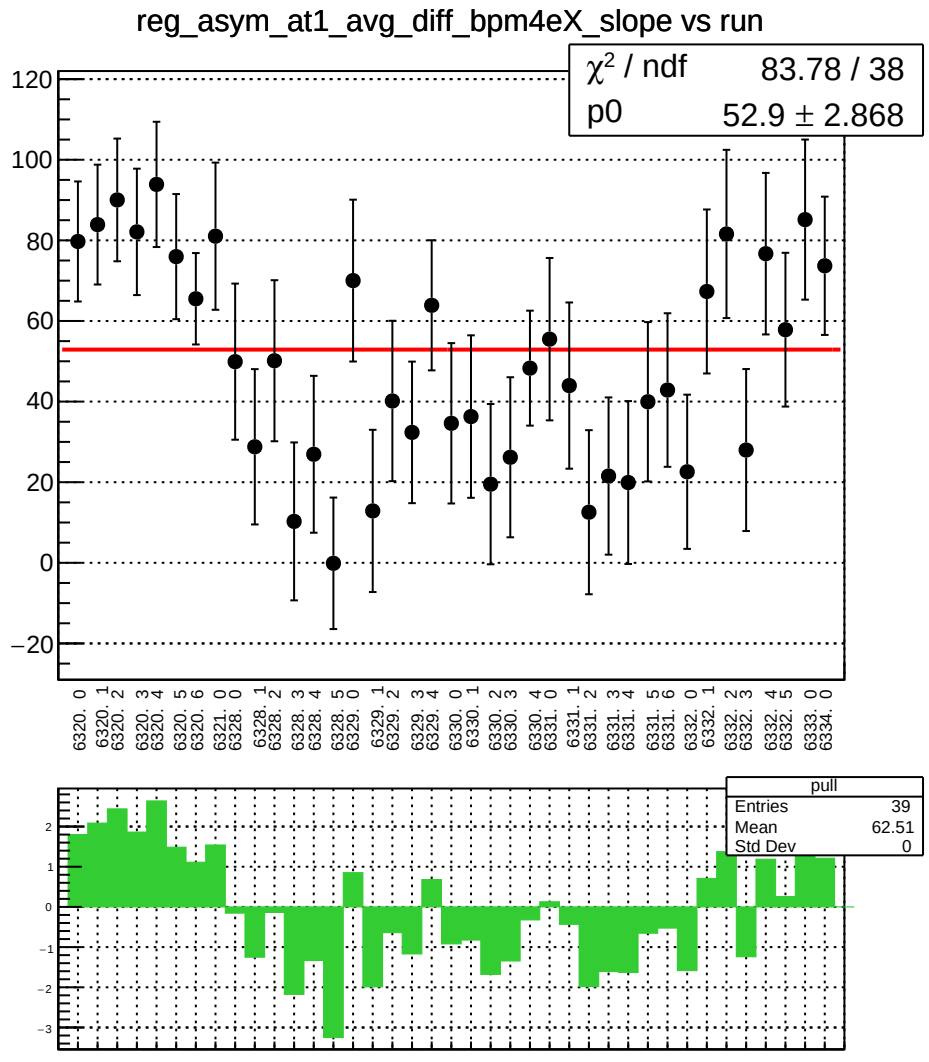

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 218.7 / 38
p0 188 ± 0.4366
pull
Entries 39
Mean −25.11
Std Dev 0
pull1D
Entries 39
Mean −0.3663
Std Dev 2.34

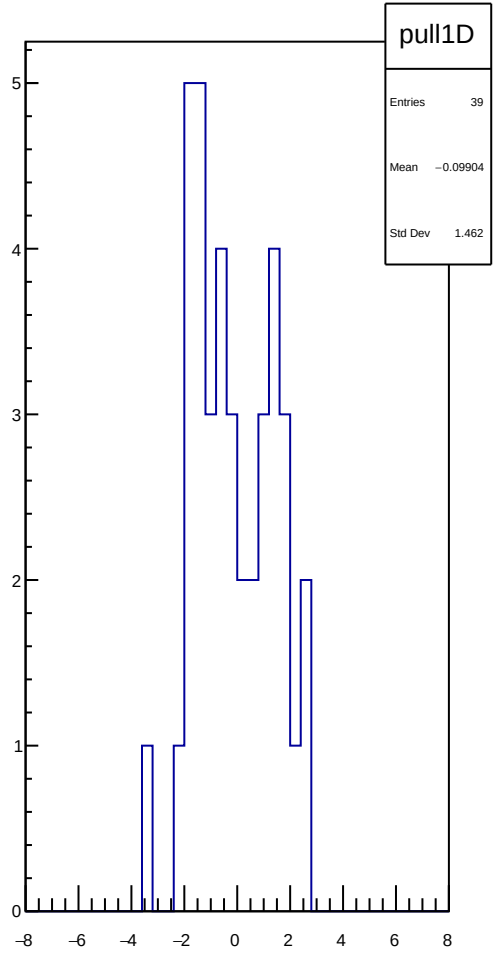

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 91.39 / 38
p0 −59.5 ± 2.741
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 72.77
Std Dev 0
3
2
1
0
−1
−2
−3

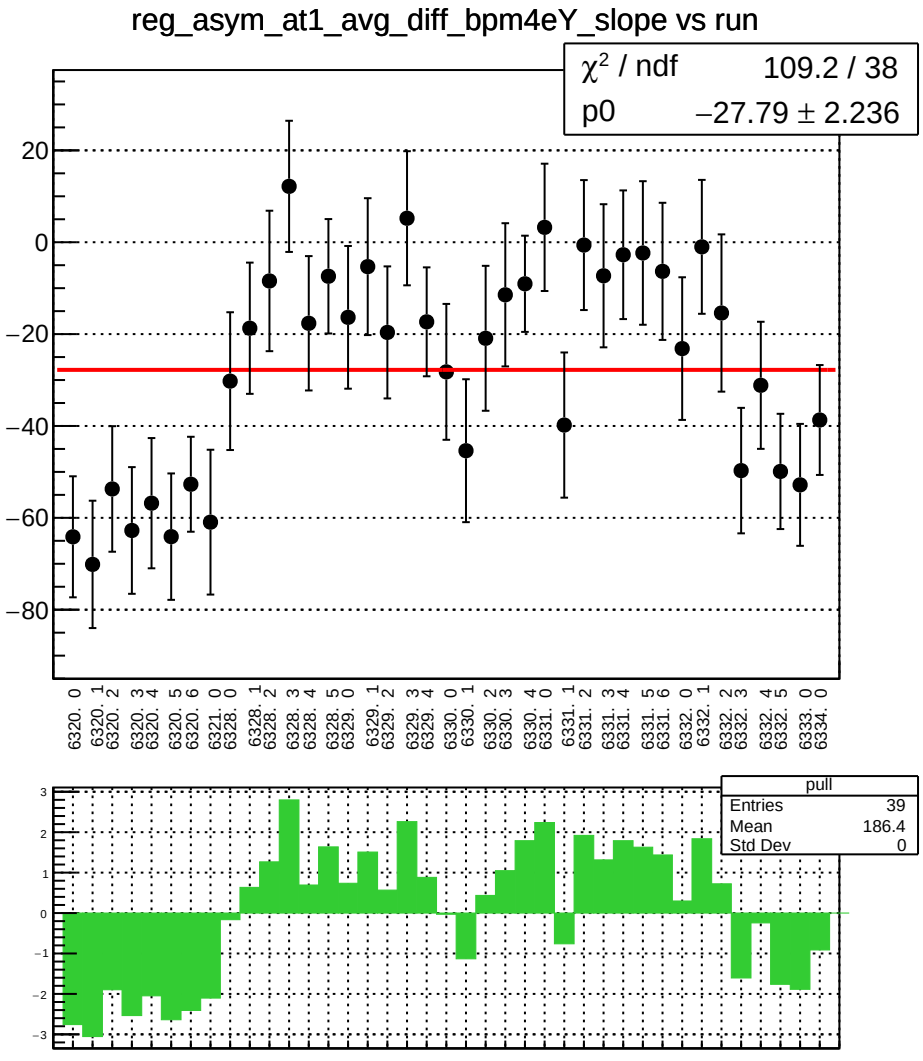

pull1D
Entries 39
Mean 0.09104
Std Dev 1.528
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

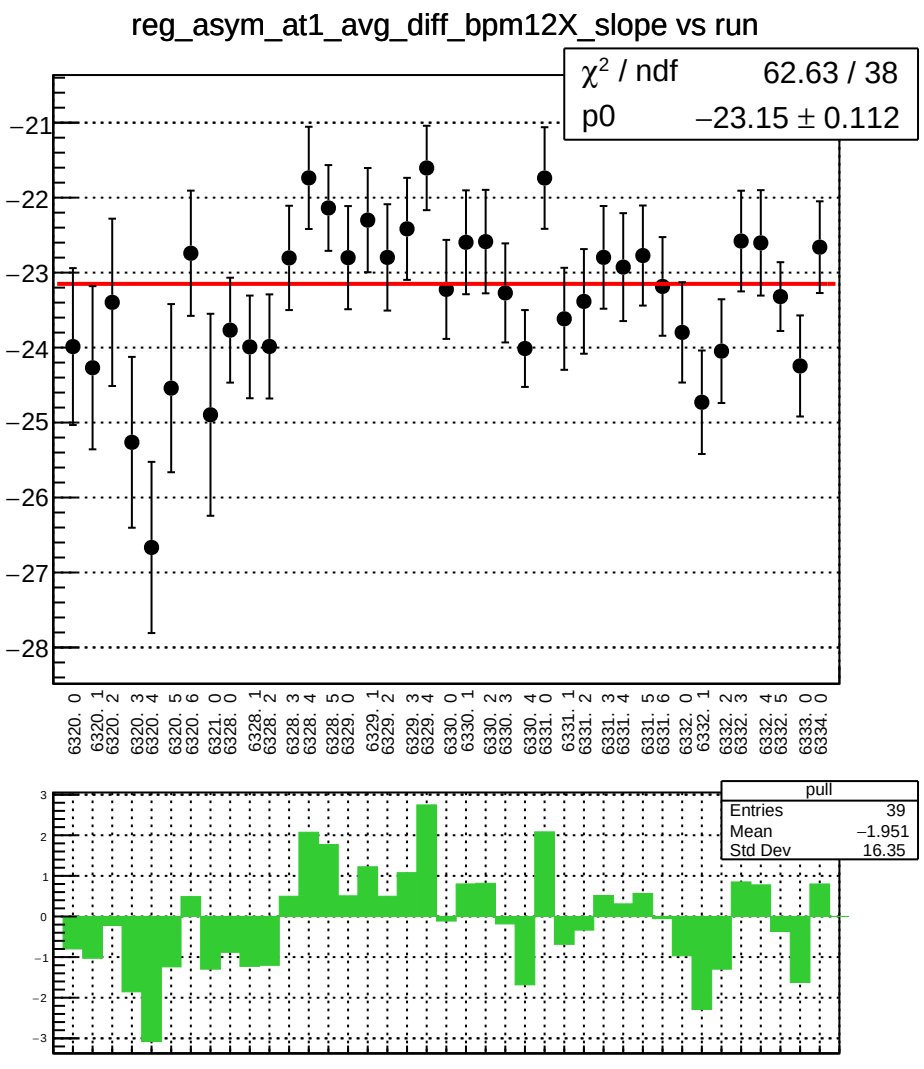

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.22 / 38
p0 15.99 ± 2.004
pull
Entries 39
Mean 75.83
Std Dev 0

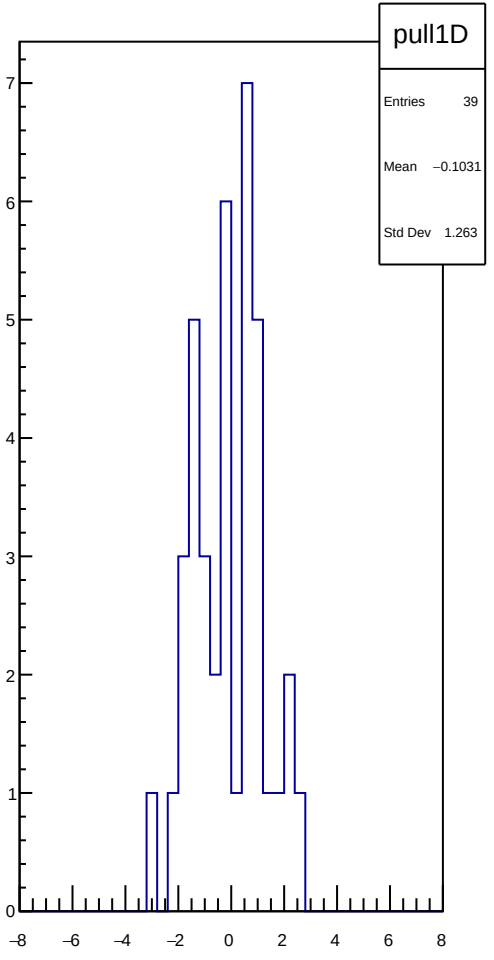

pull1D
Entries 39
Mean −0.08747
Std Dev 1.26

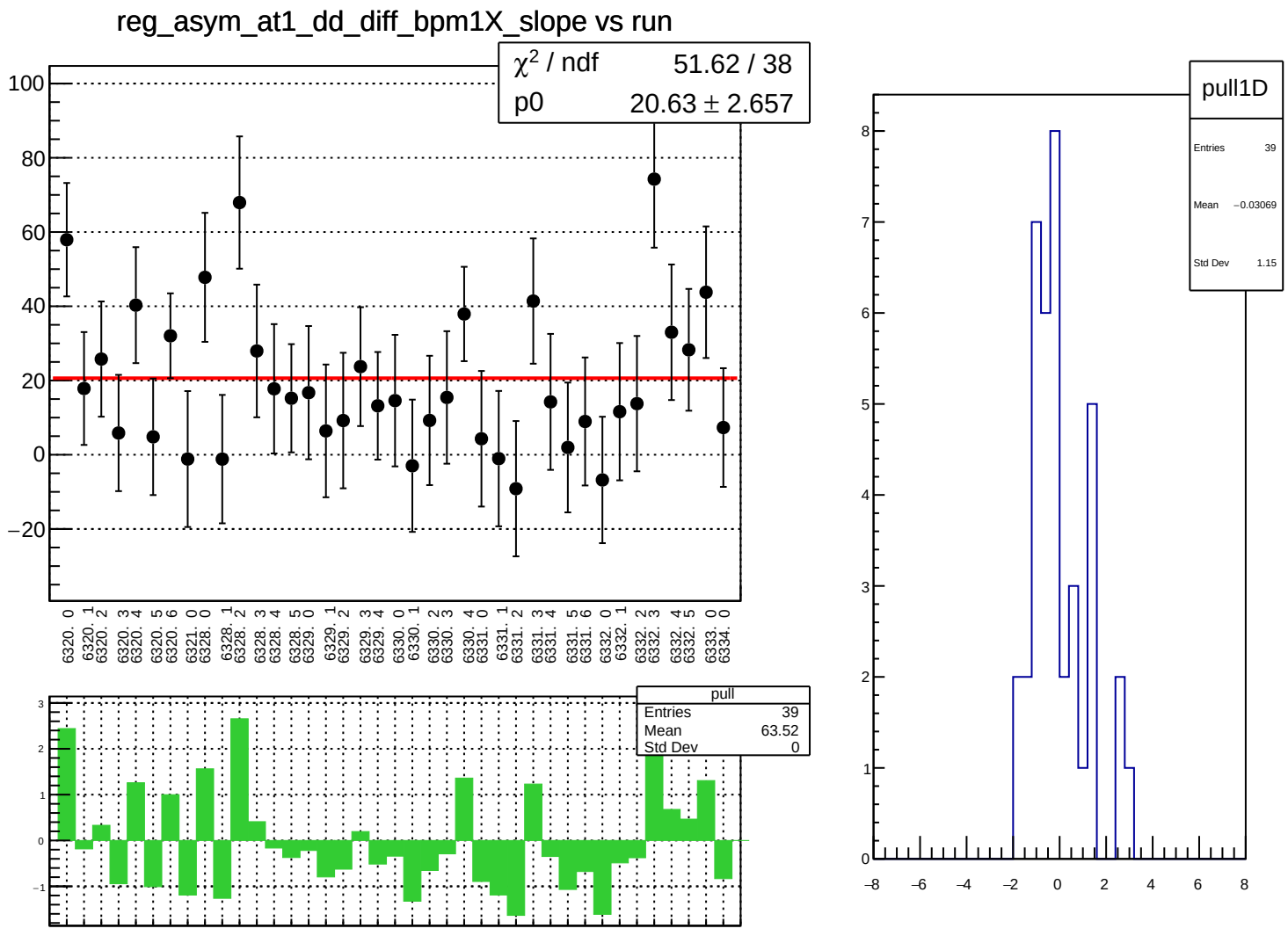

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.78 / 38
p0 52.9 ± 2.868
120
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 62.51
Std Dev 0
2
1
0
−1
−2
−3

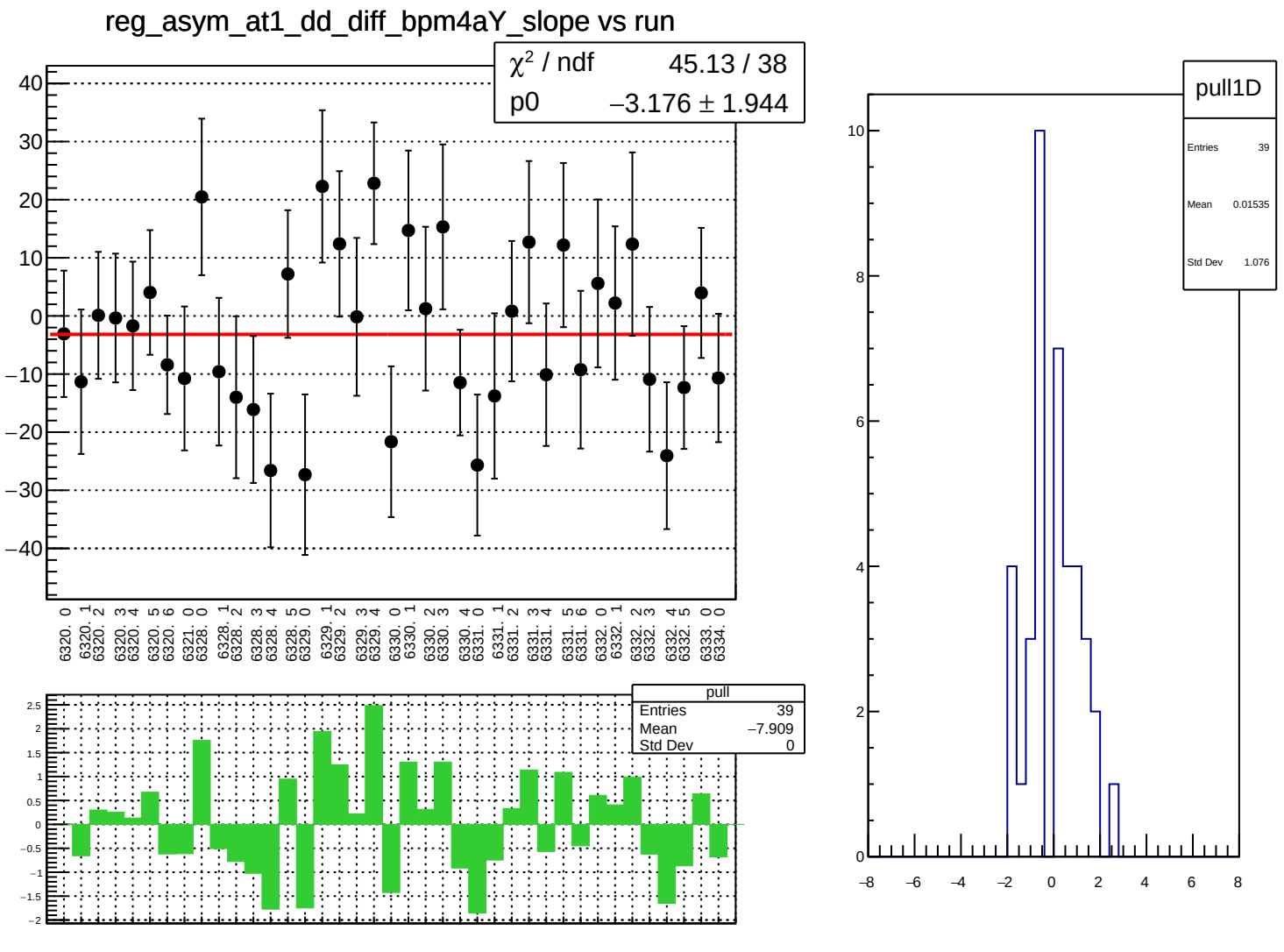

pull1D
Entries 39
Mean −0.09904
Std Dev 1.462
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

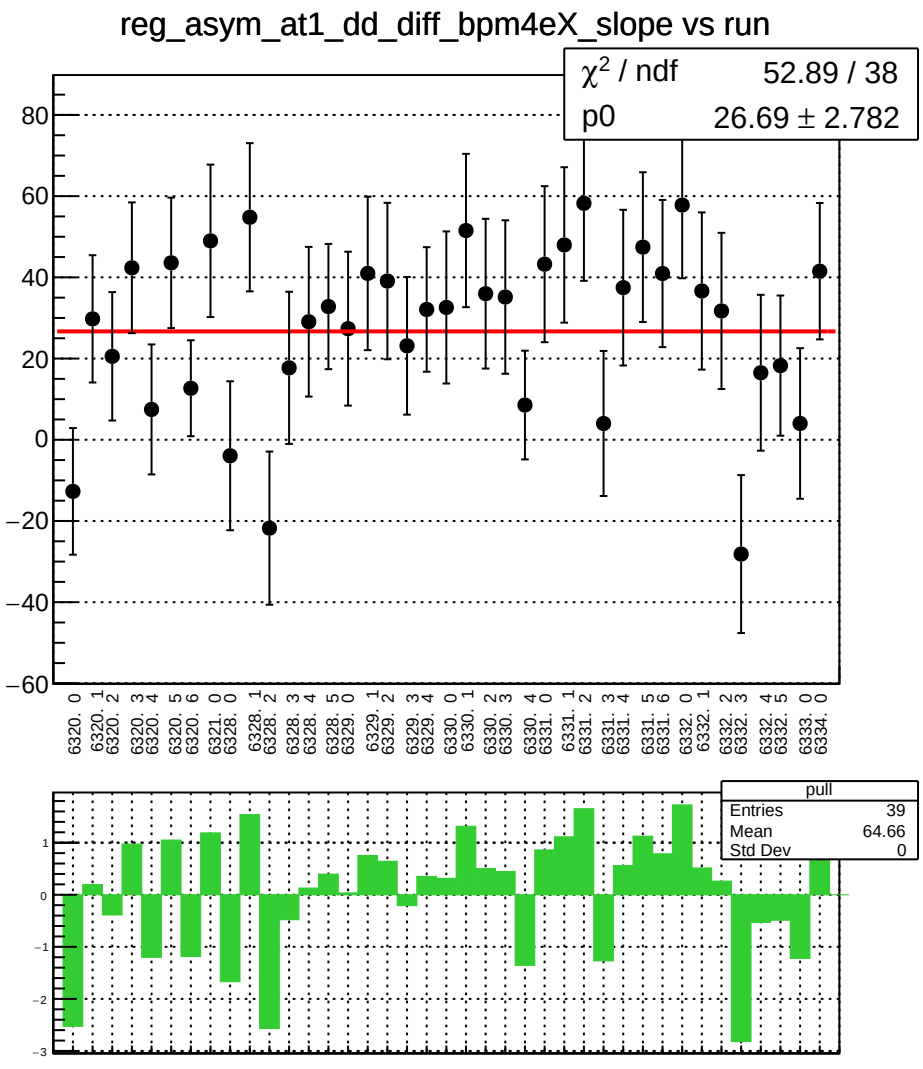

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.2 / 38
p0 −27.79 ± 2.236
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 186.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.03867
Std Dev 1.673
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

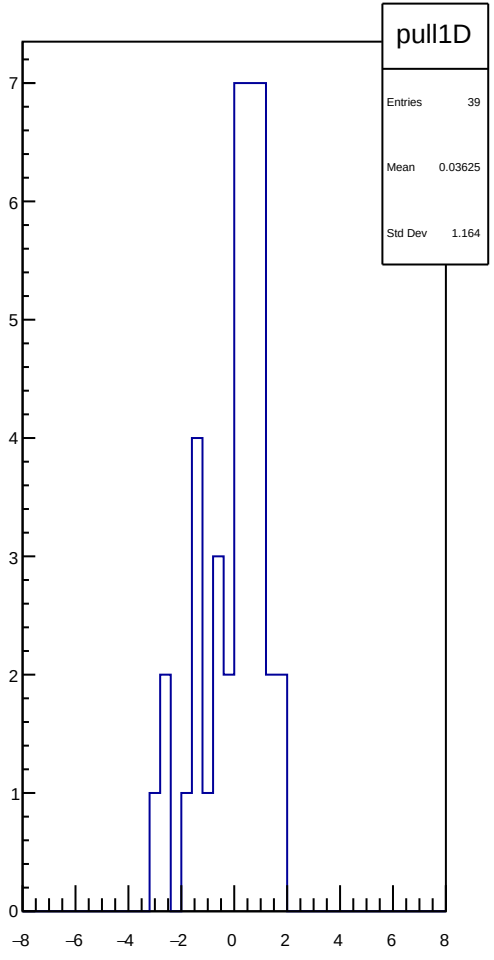

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 62.63 / 38
p0 −23.15 ± 0.112
−21
−22
−23
−24
−25
−26
−27
−28
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.951
Std Dev 16.35
3
2
1
0
−1
−2
−3

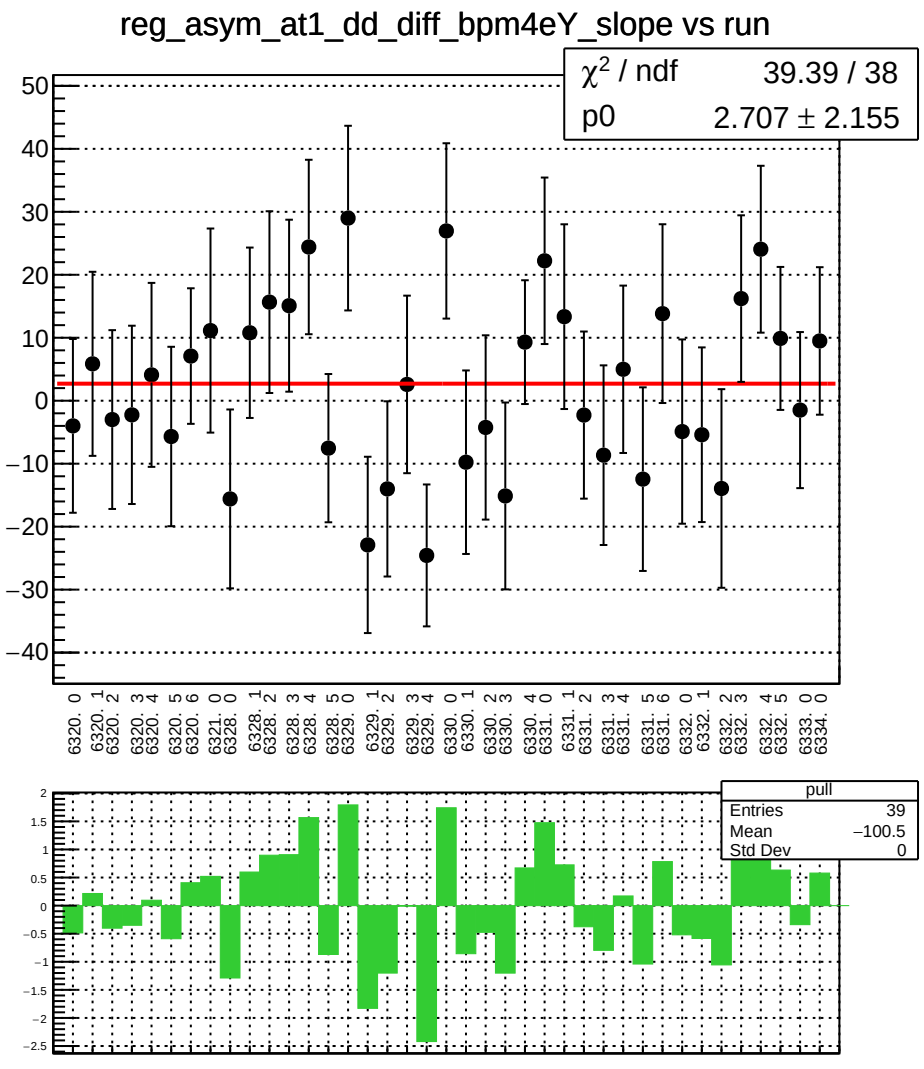

pull1D
Entries 39
Mean −0.1031
Std Dev 1.263
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

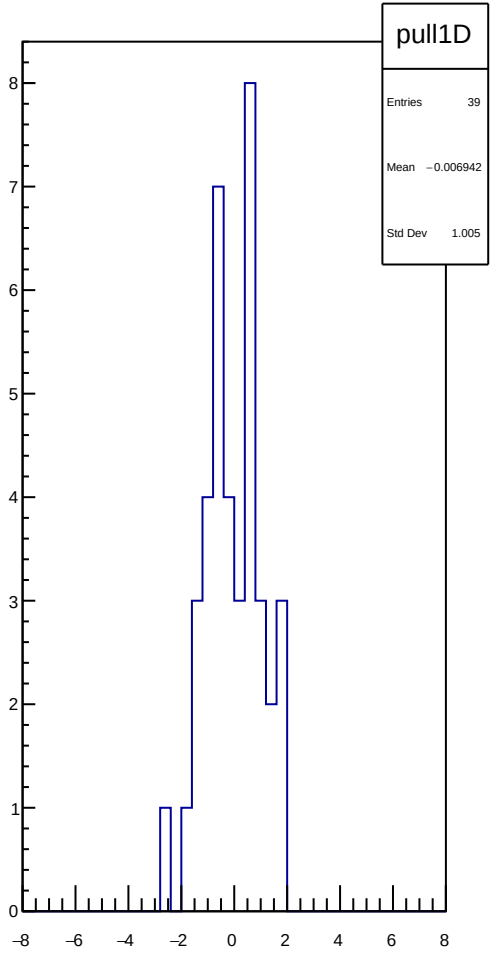

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 51.62 / 38
p0 20.63 ± 2.657
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 63.52
Std Dev 0
3
2
1
0
−1
pull1D
Entries 39
Mean −0.03069
Std Dev 1.15
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

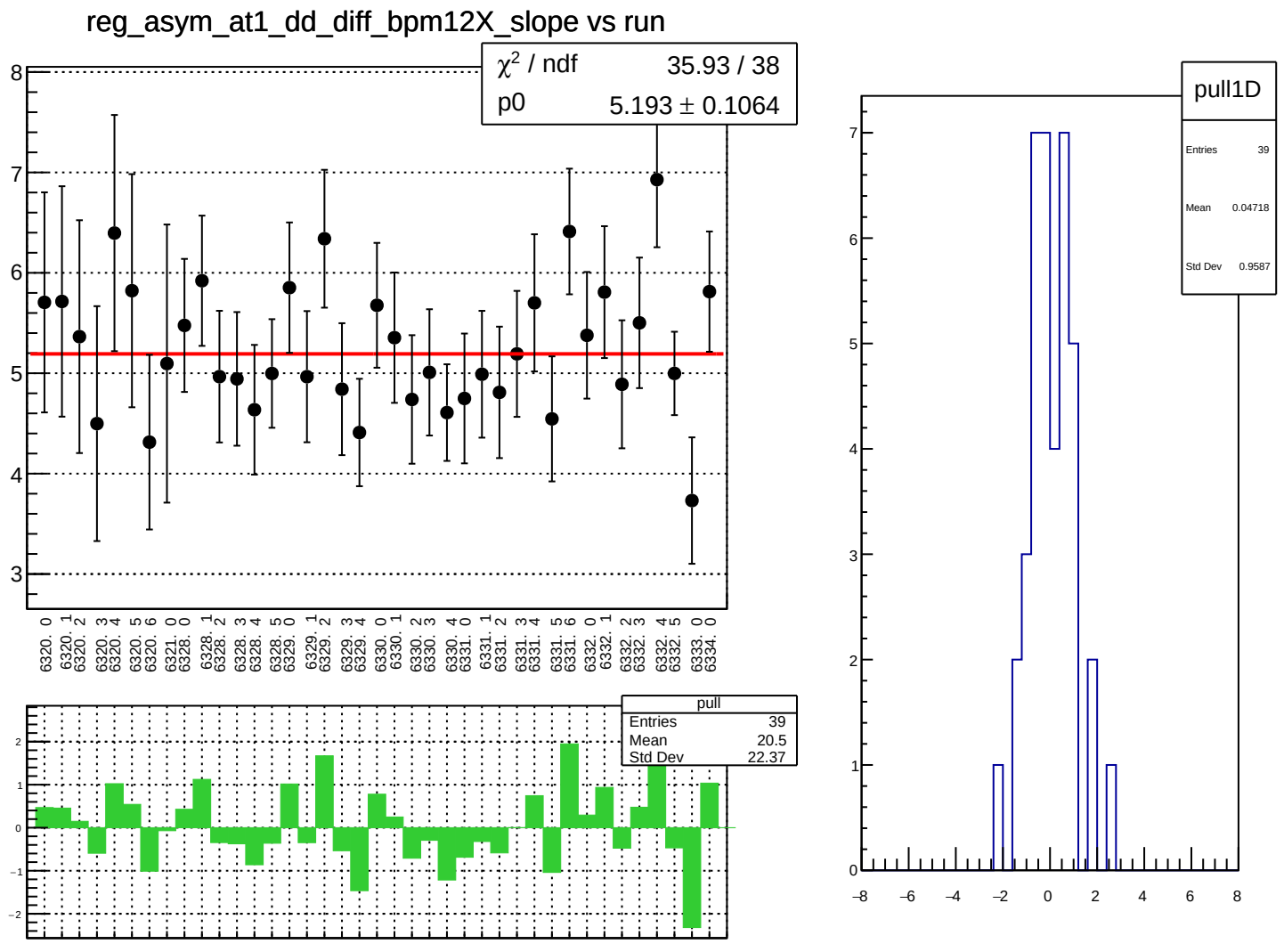

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.13 / 38
p0 −3.176 ± 1.944
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −7.909
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01535
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

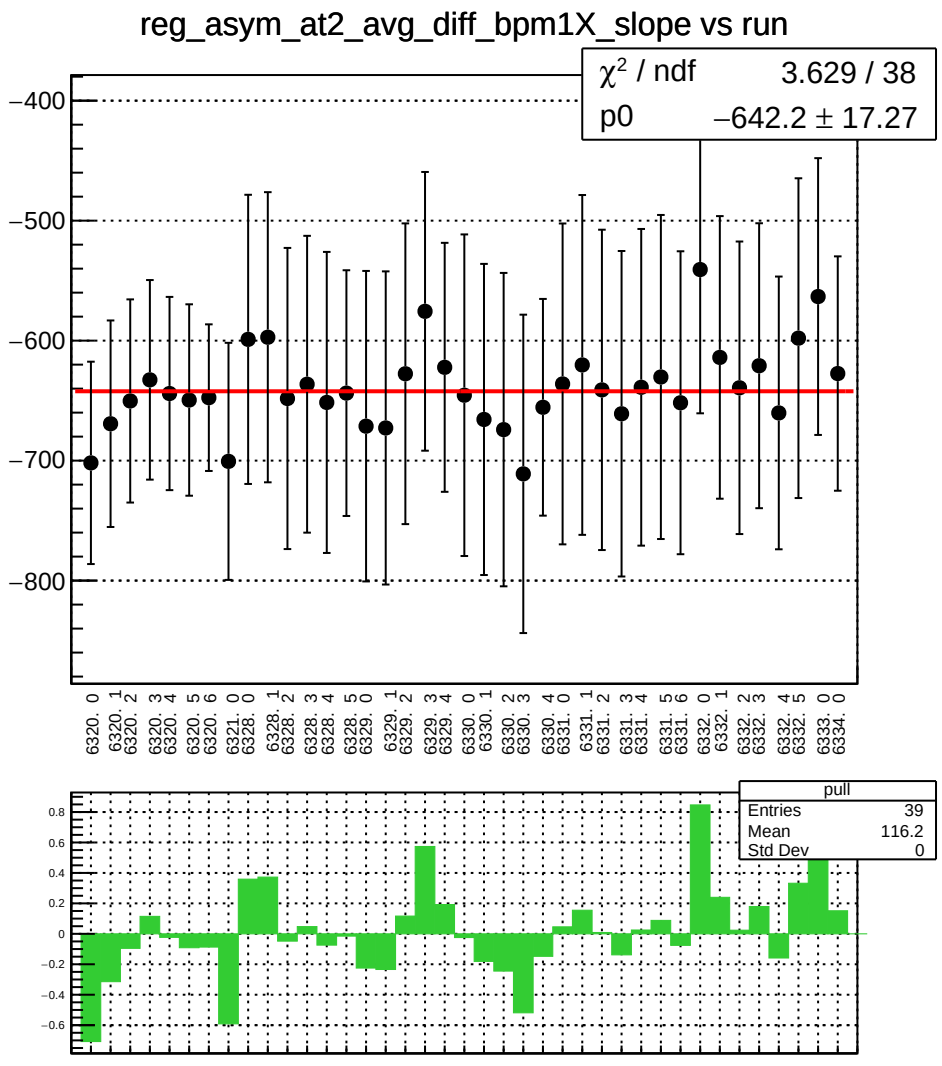

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.89 / 38
p0 26.69 ± 2.782
pull
Entries 39
Mean 64.66
Std Dev 0

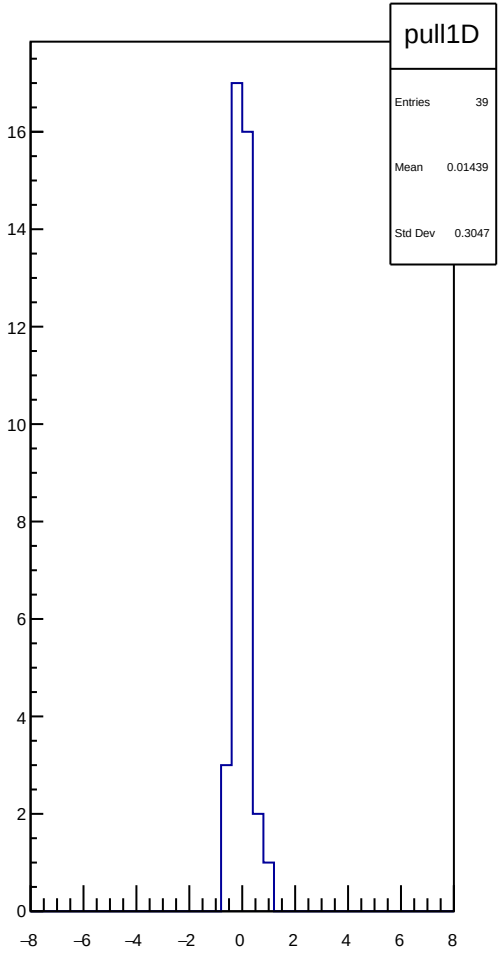

pull1D
Entries 39
Mean 0.03625
Std Dev 1.164

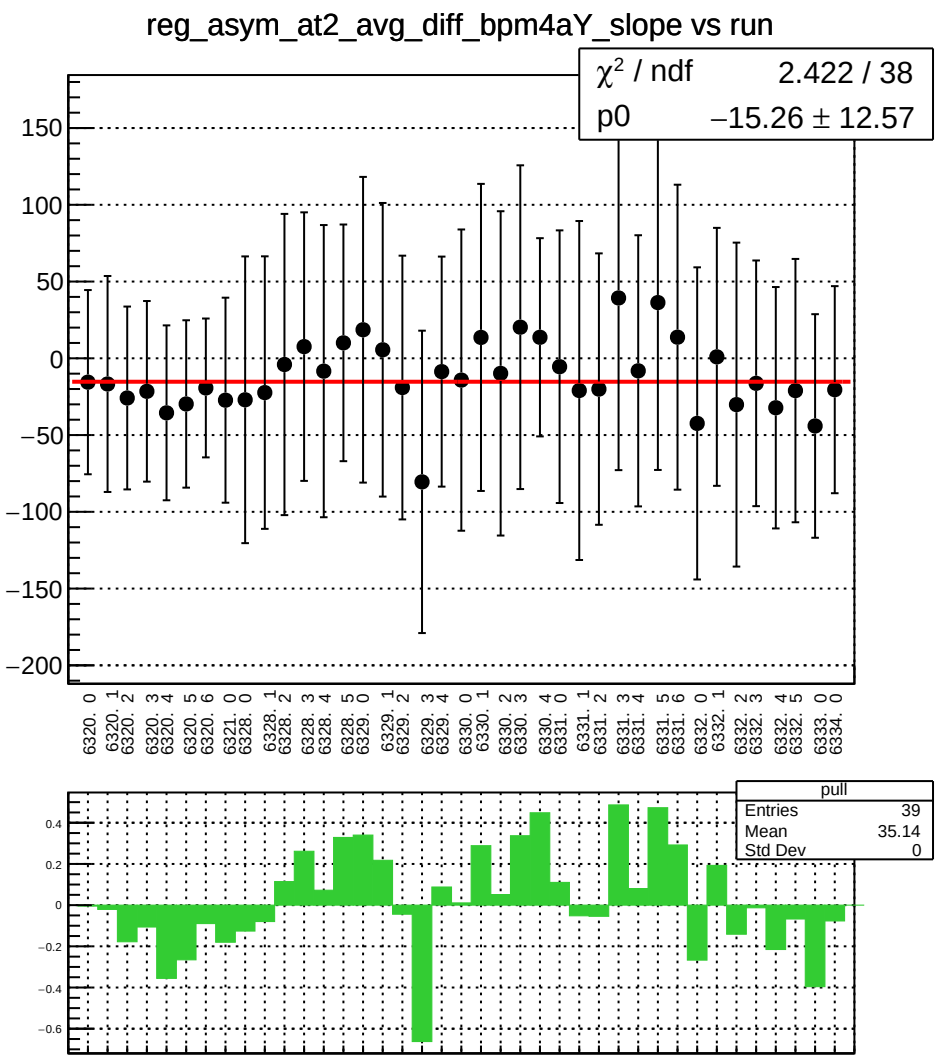

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.39 / 38
p0 2.707 ± 2.155
pull
Entries 39
Mean −100.5
Std Dev 0

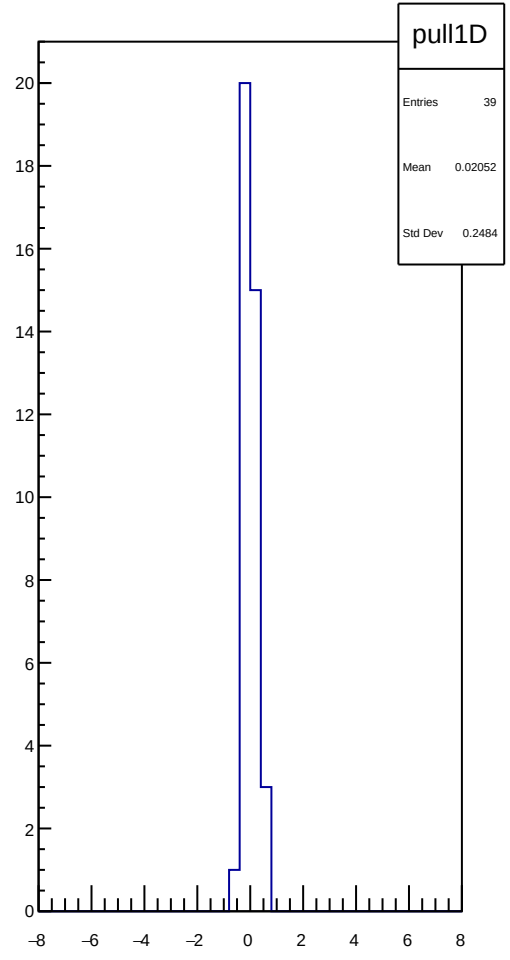

pull1D
Entries 39
Mean −0.006942
Std Dev 1.005

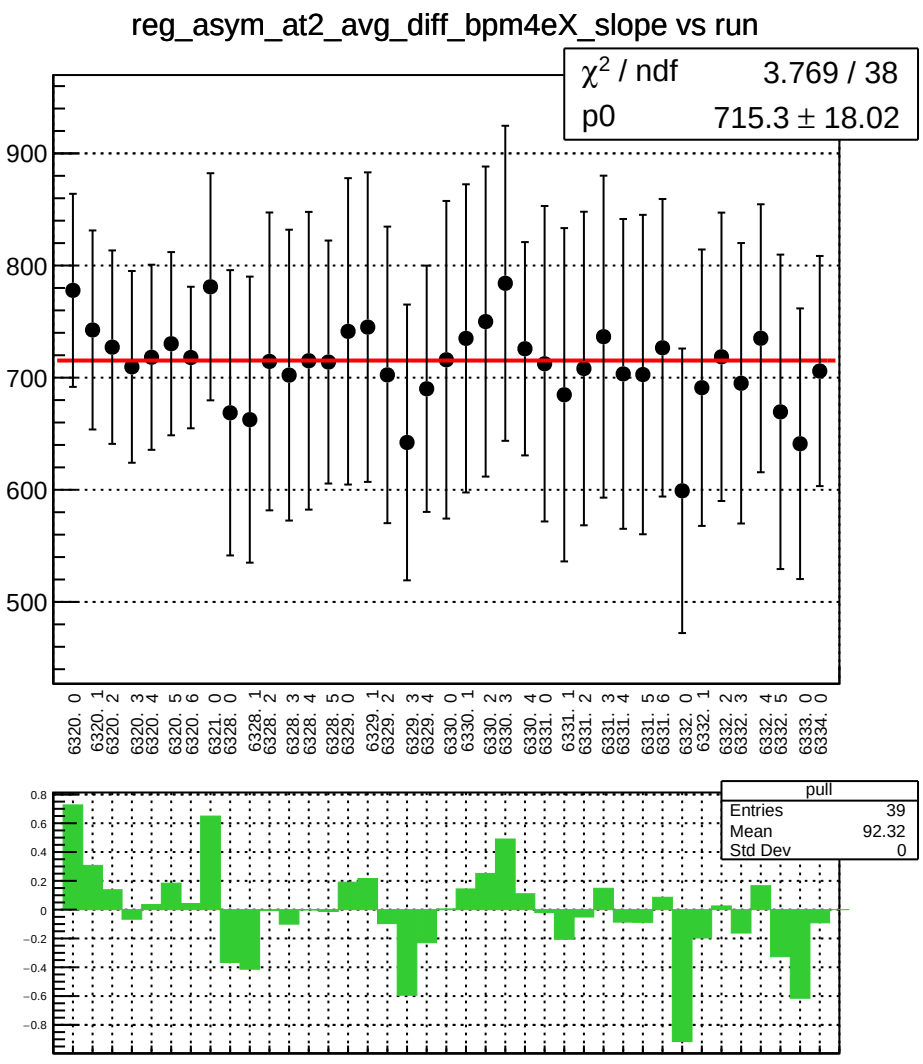

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 35.93 / 38
p0 5.193 ± 0.1064
pull
Entries 39
Mean 20.5
Std Dev 22.37
pull1D
Entries 39
Mean 0.04718
Std Dev 0.9587

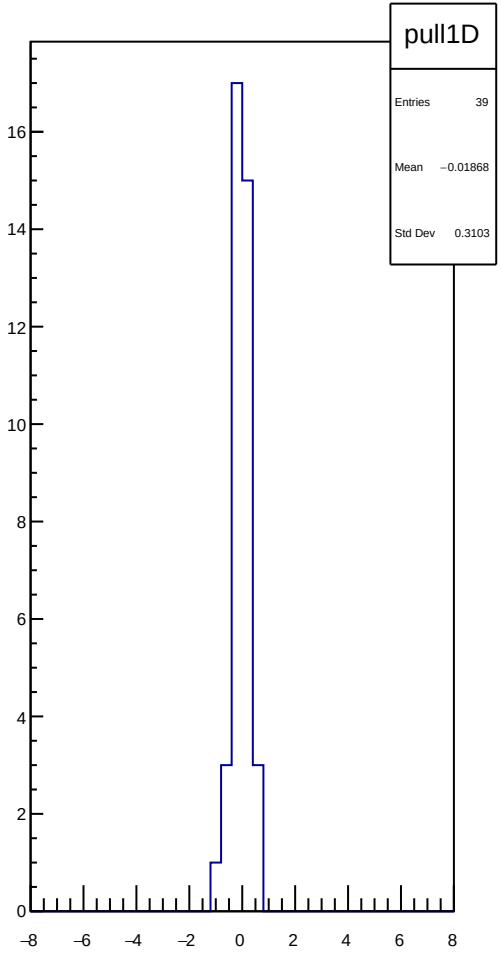

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.629 / 38
p0 −642.2 ± 17.27
−400
−500
−600
−700
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 116.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

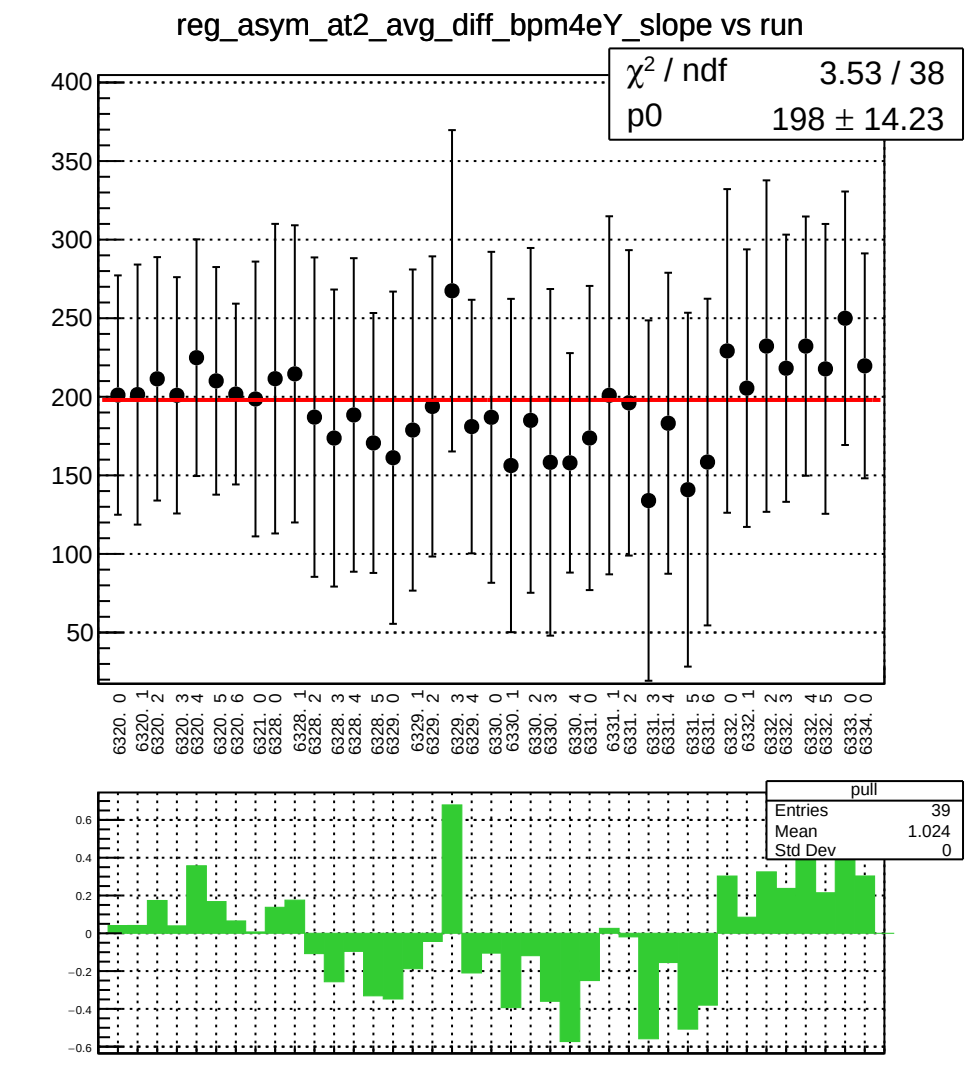

pull1D
Entries 39
Mean 0.01439
Std Dev 0.3047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

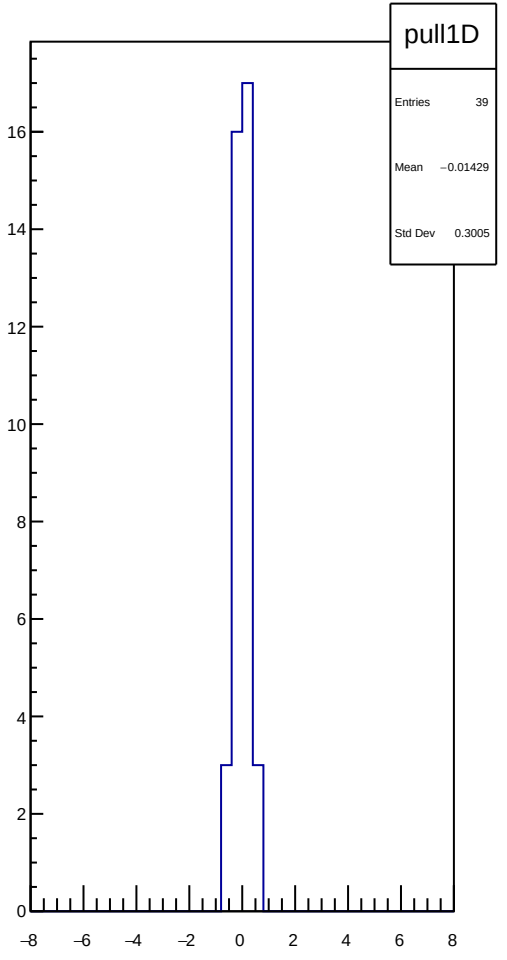

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.422 / 38
p0 −15.26 ± 12.57
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.14
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

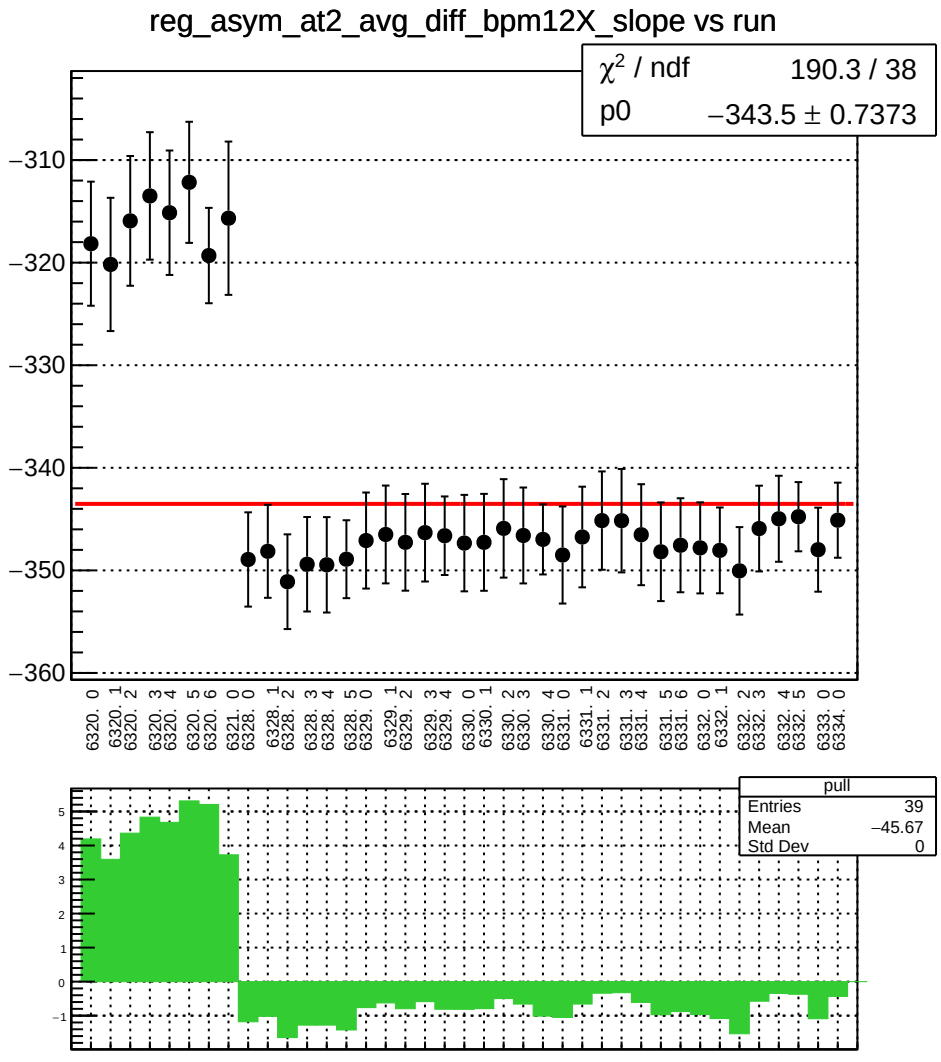

pull1D
Entries 39
Mean 0.02052
Std Dev 0.2484
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

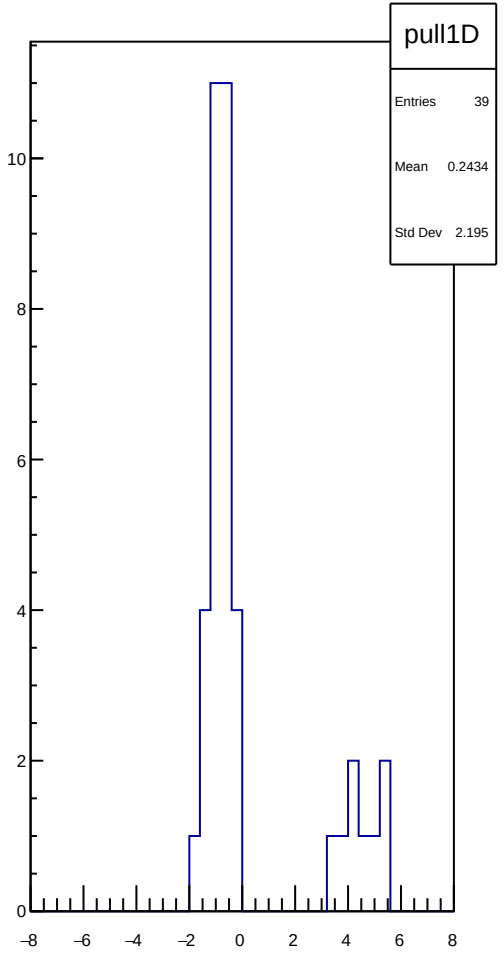

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.769 / 38
p0 715.3 ± 18.02
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 92.32
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

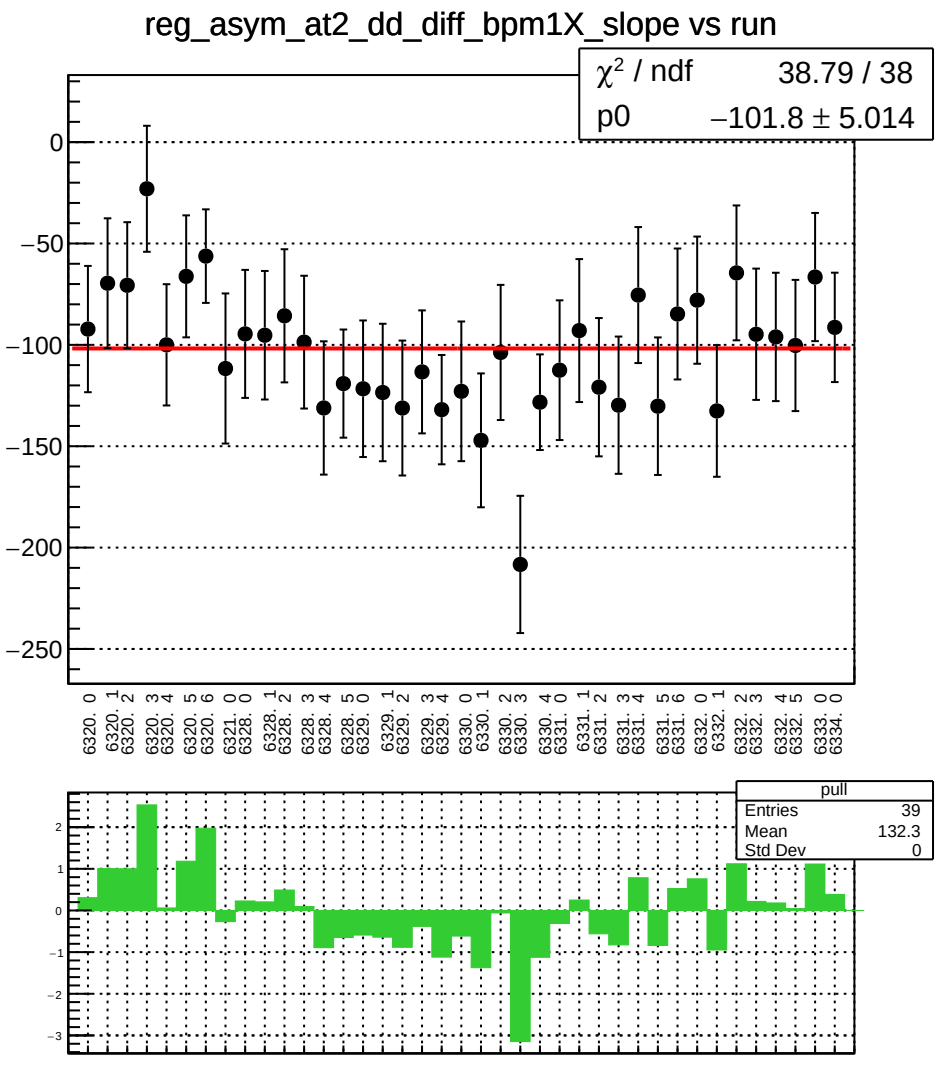

pull1D
Entries 39
Mean −0.01868
Std Dev 0.3103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

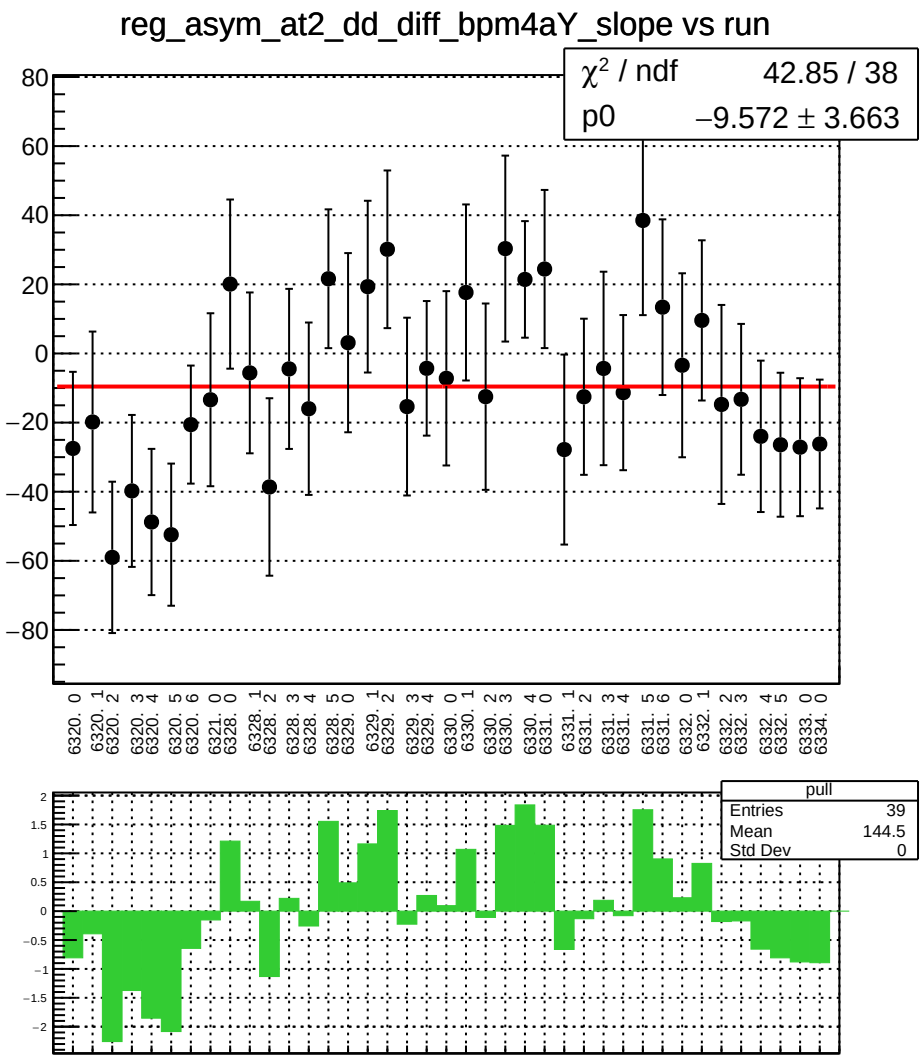

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.53 / 38
p0 198 ± 14.23
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1.024
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

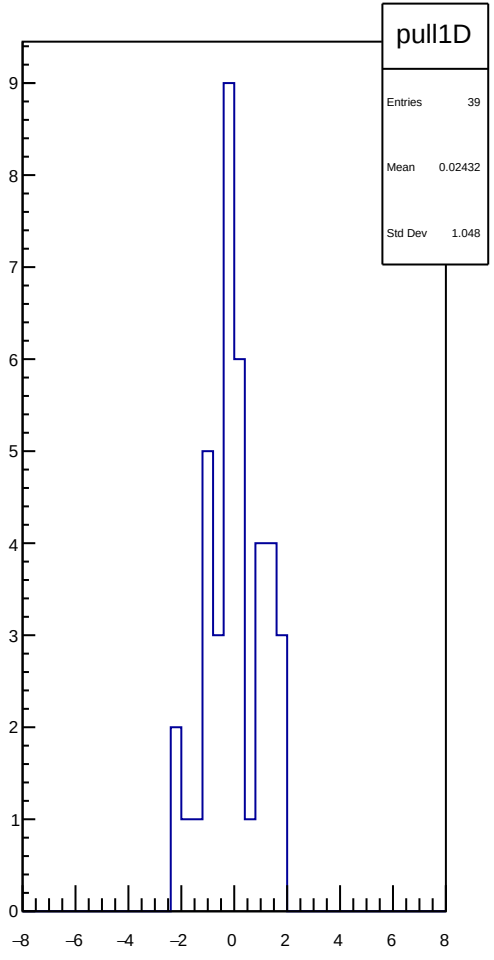

pull1D
Entries 39
Mean −0.01429
Std Dev 0.3005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

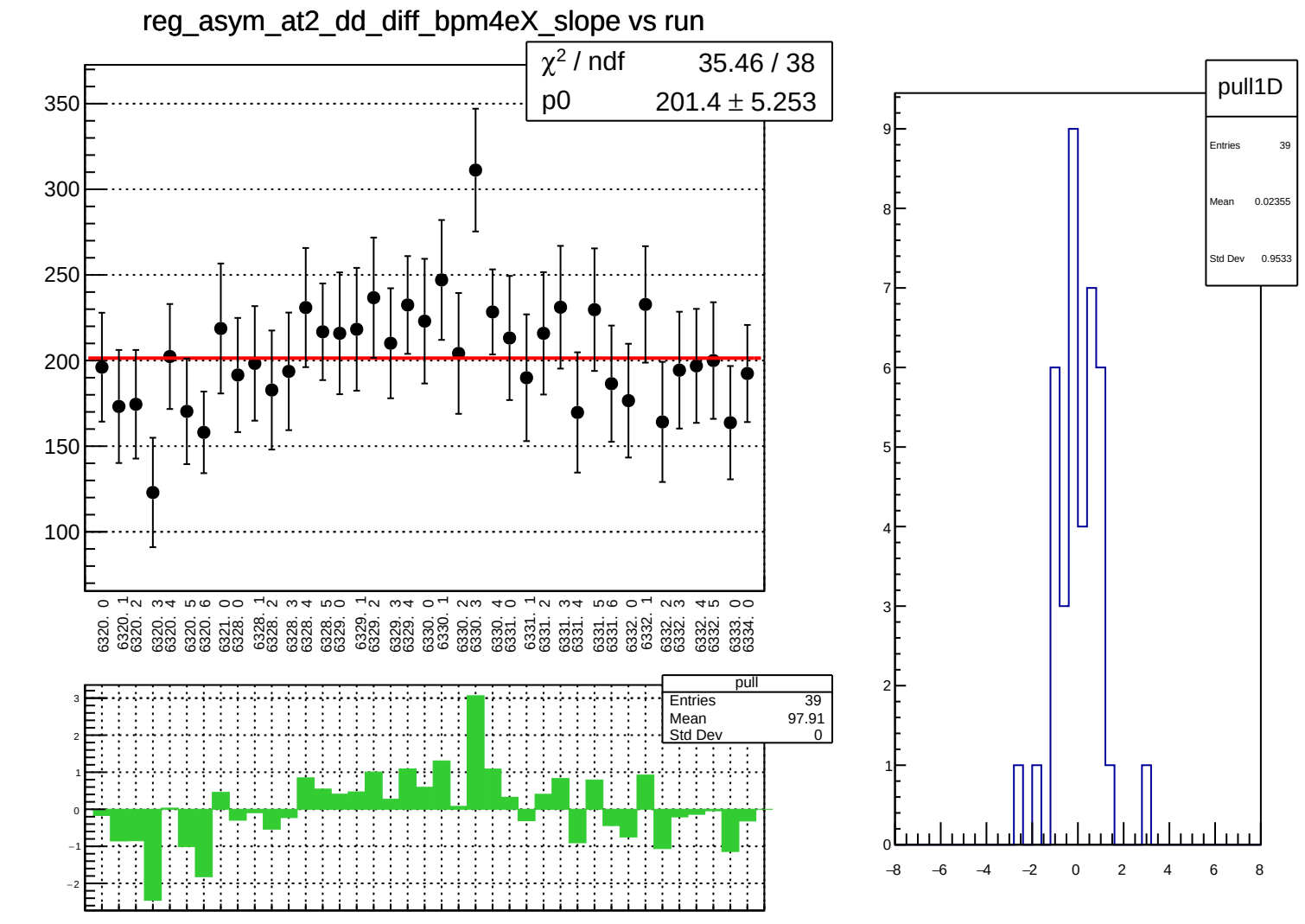

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 190.3 / 38
p0 −343.5 ± 0.7373
−310
−320
−330
−340
−350
−360
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.67
Std Dev 0
5
4
3
2
1
0
−1

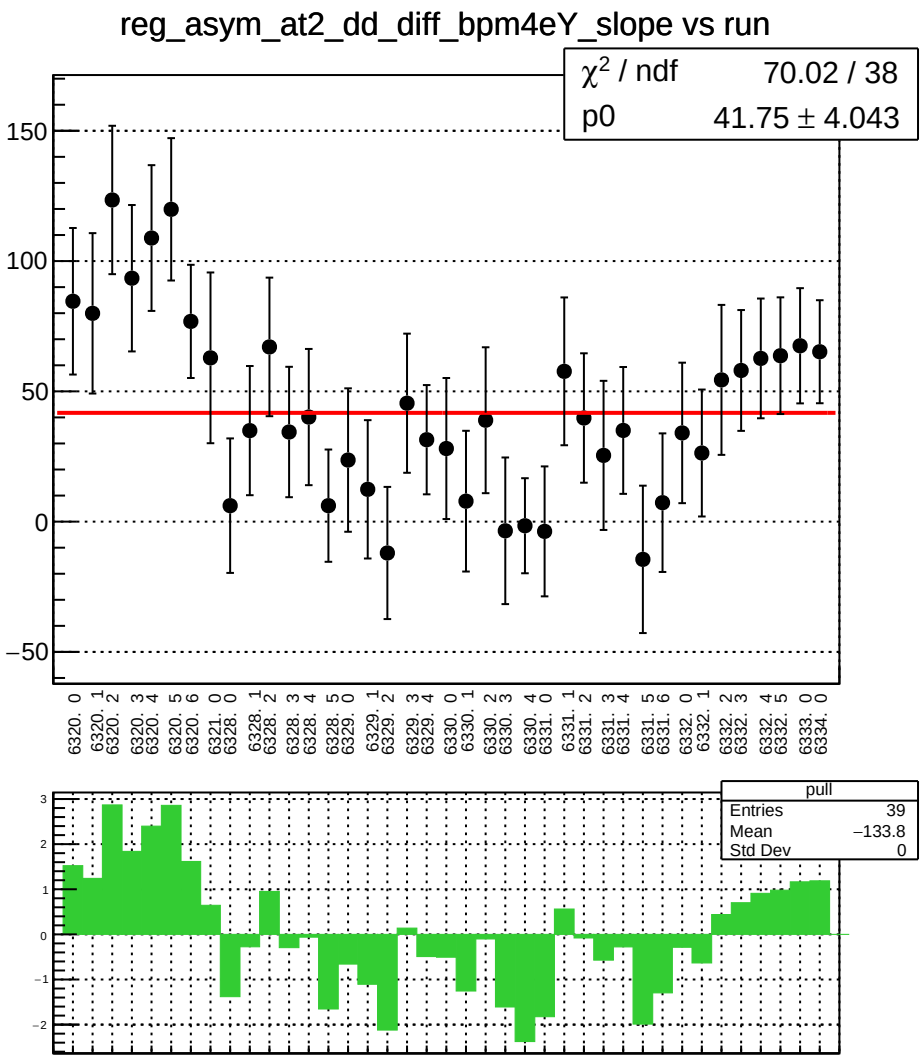

pull1D
Entries 39
Mean 0.2434
Std Dev 2.195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

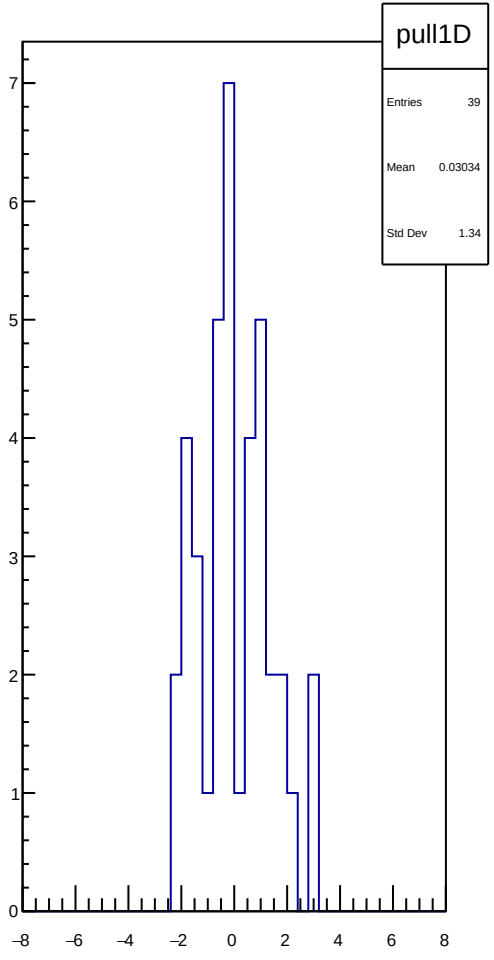

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 38.79 / 38
p0 −101.8 ± 5.014
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 132.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01949
Std Dev 0.9971
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

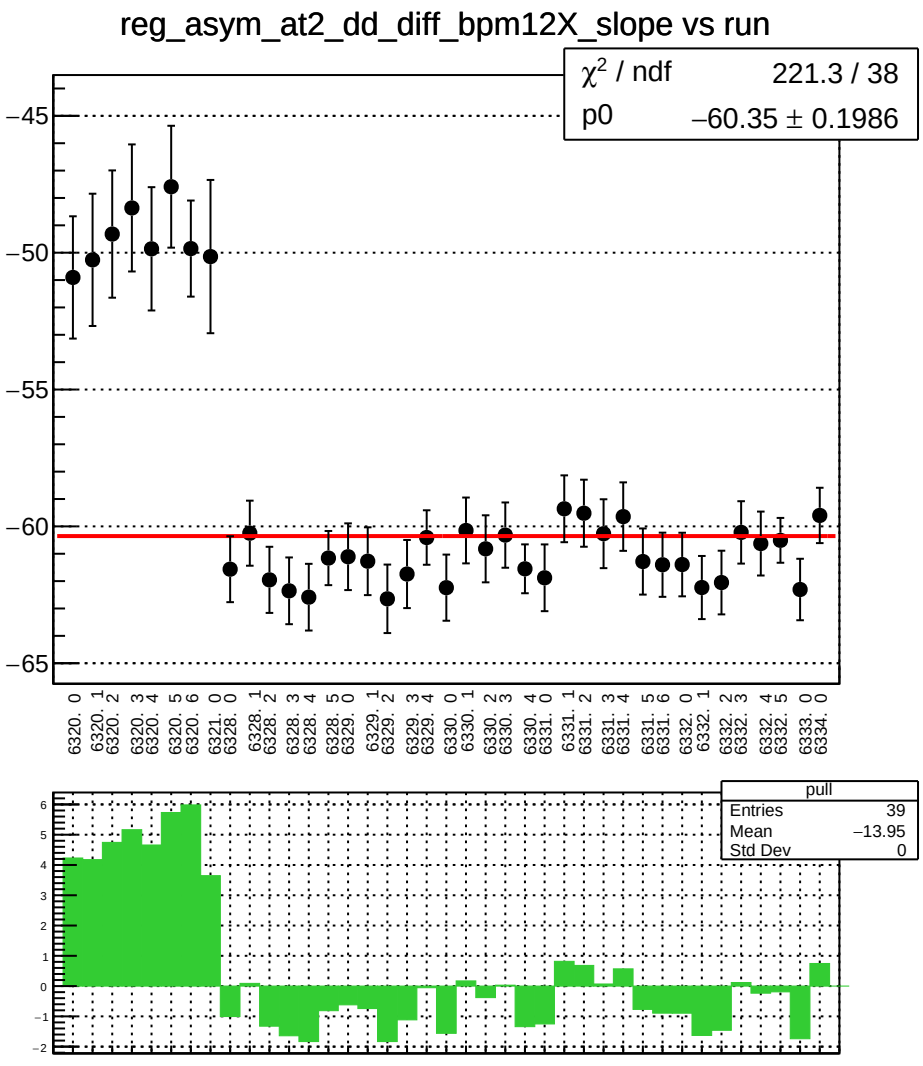

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.85 / 38
p0 −9.572 ± 3.663
pull
Entries 39
Mean 144.5
Std Dev 0

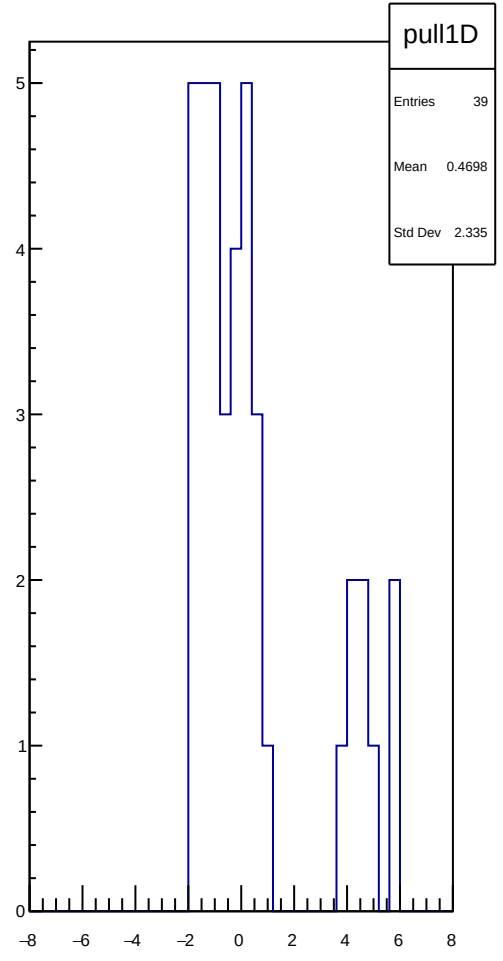

pull1D
Entries 39
Mean 0.02432
Std Dev 1.048

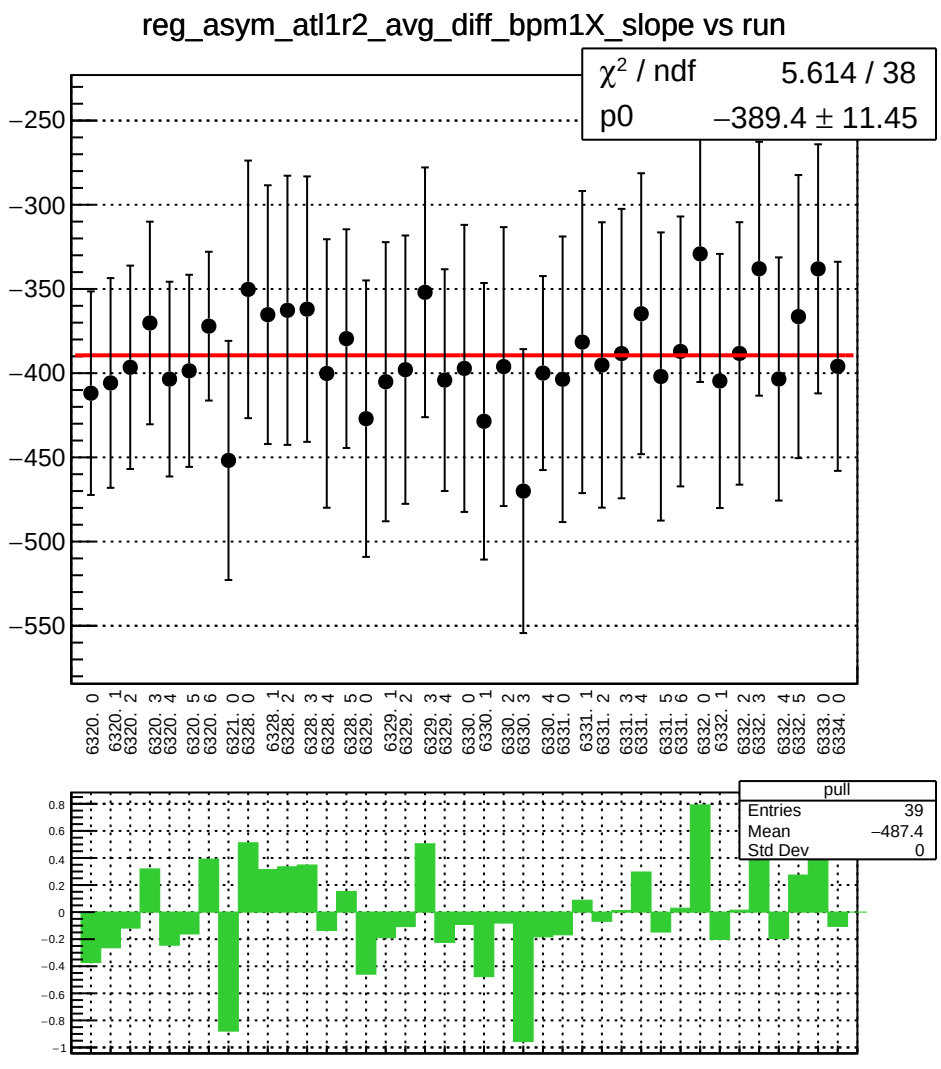

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.46 / 38
p0 201.4 ± 5.253
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 97.91
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02355
Std Dev 0.9533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

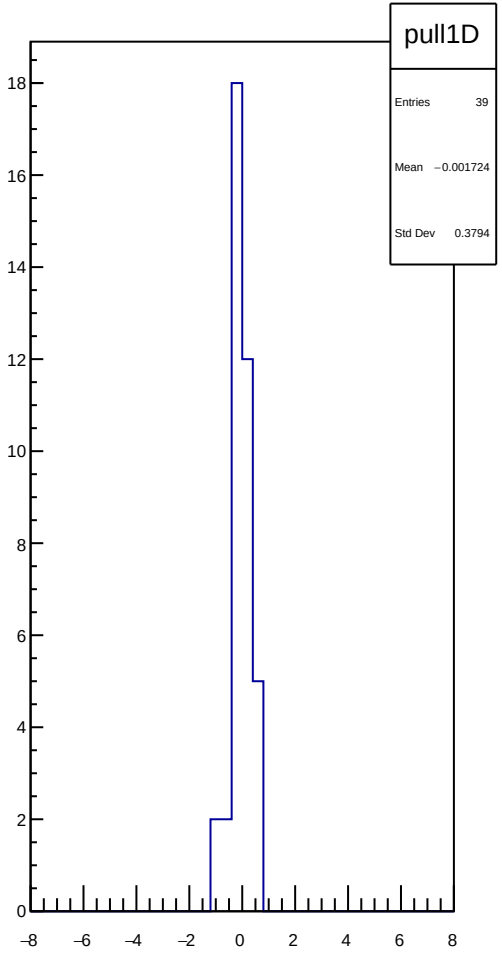

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.02 / 38
p0 41.75 ± 4.043
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −133.8
Std Dev 0
3
2
1
0
−1
−2

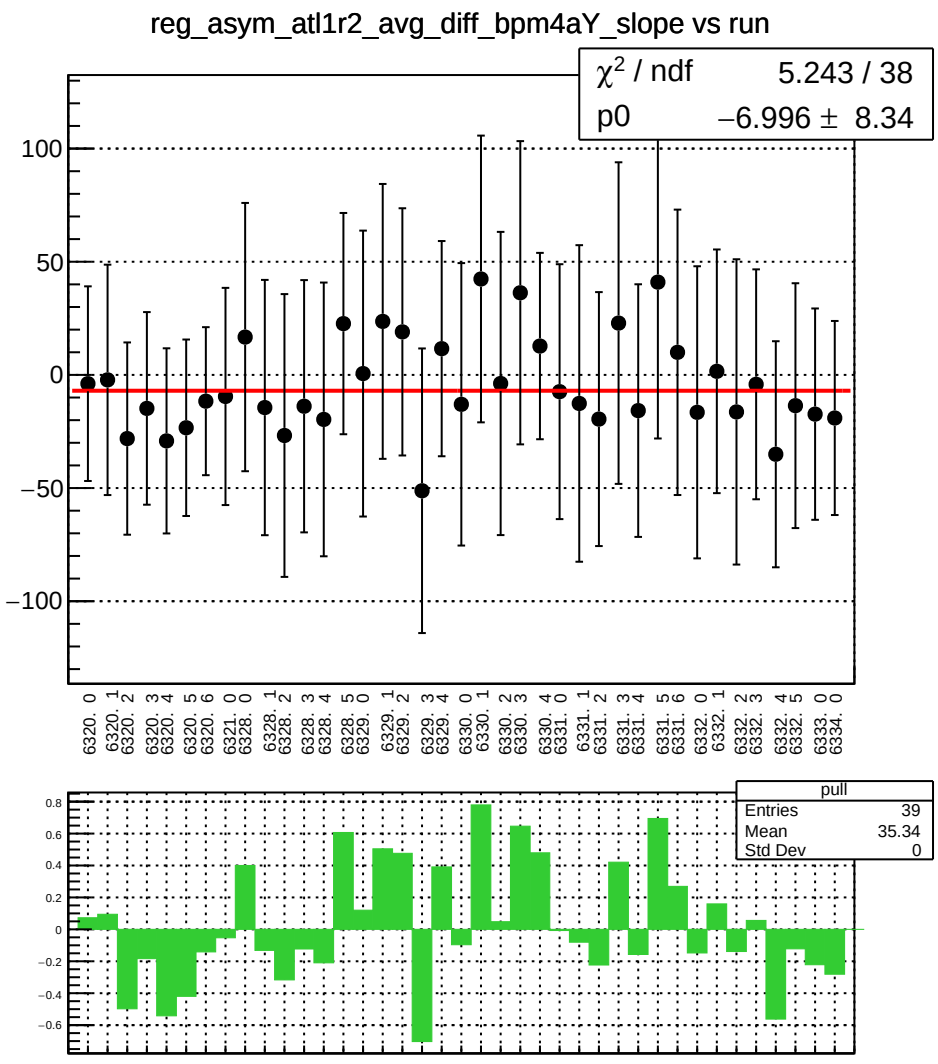

pull1D
Entries 39
Mean 0.03034
Std Dev 1.34
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

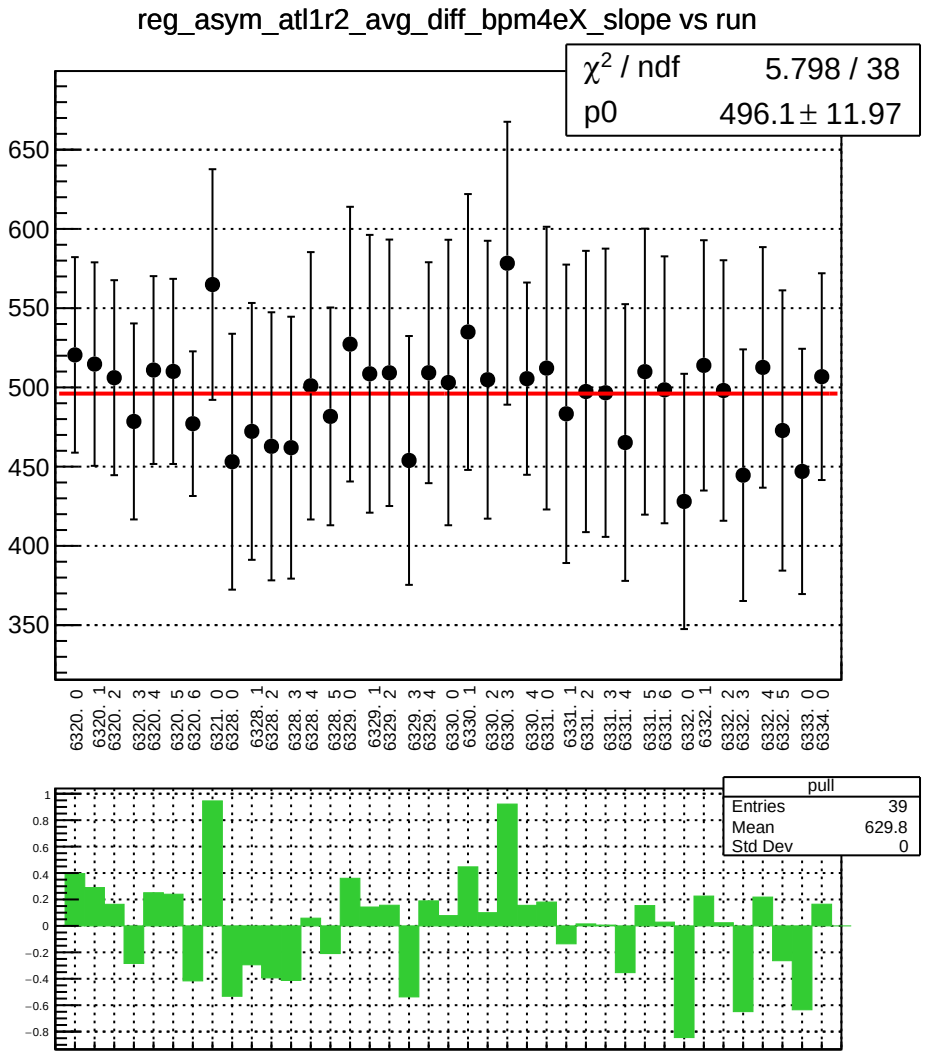

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 221.3 / 38
p0 −60.35 ± 0.1986
−45
−50
−55
−60
−65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −13.95
Std Dev 0
6
5
4
3
2
1
0
−1
−2

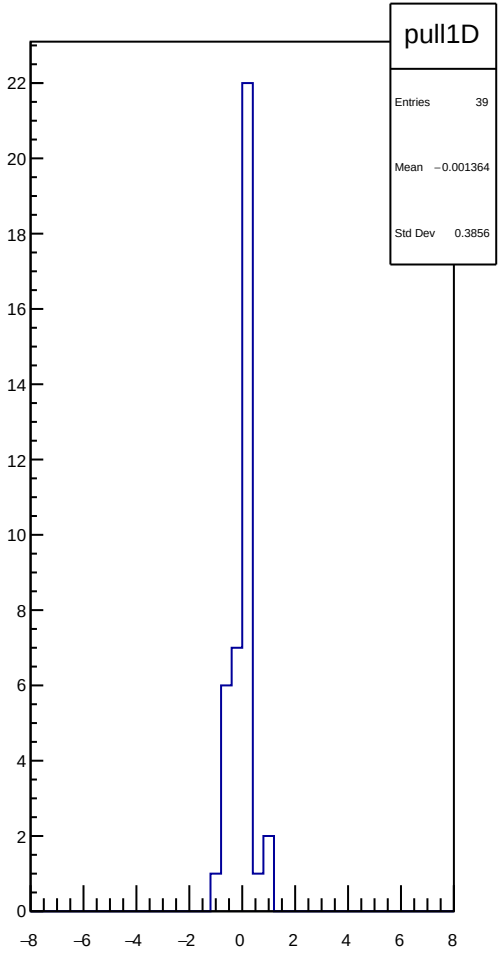

pull1D
Entries 39
Mean 0.4698
Std Dev 2.335
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

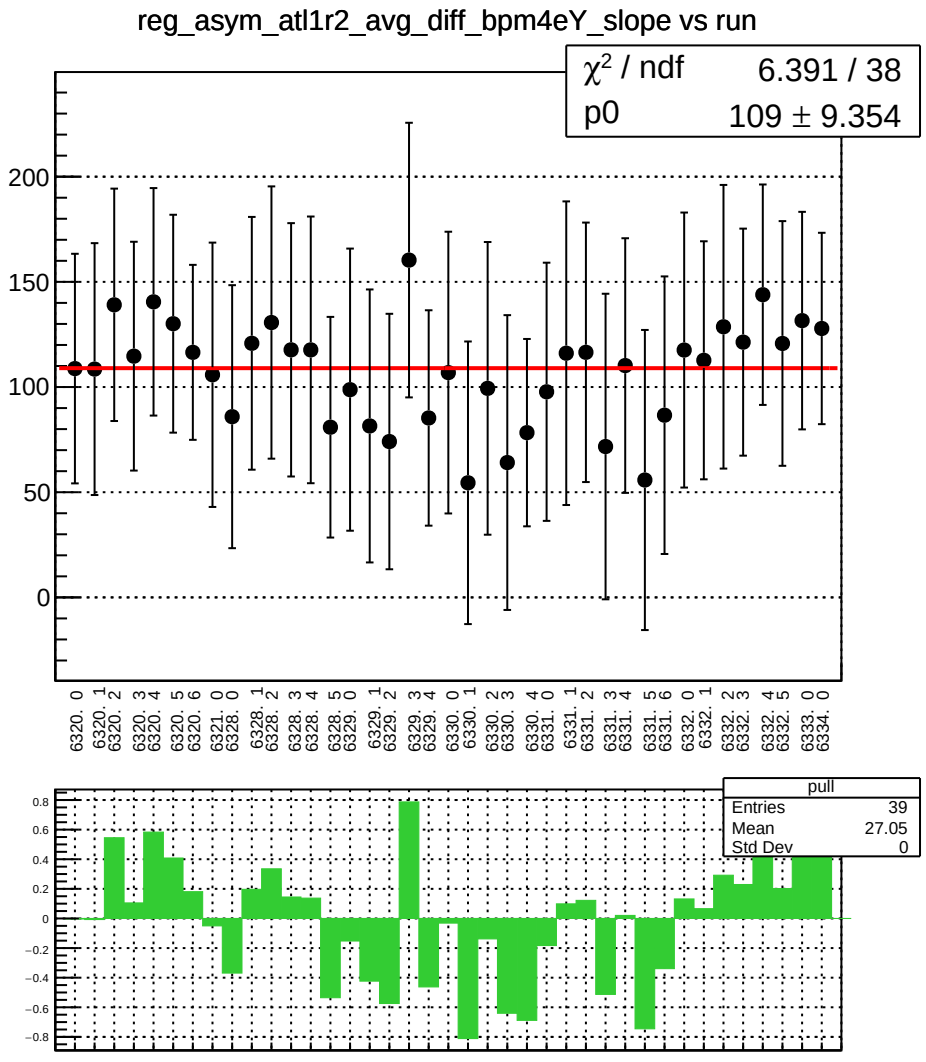

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.614 / 38
p0 −389.4 ± 11.45
−250
−300
−350
−400
−450
−500
−550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −487.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

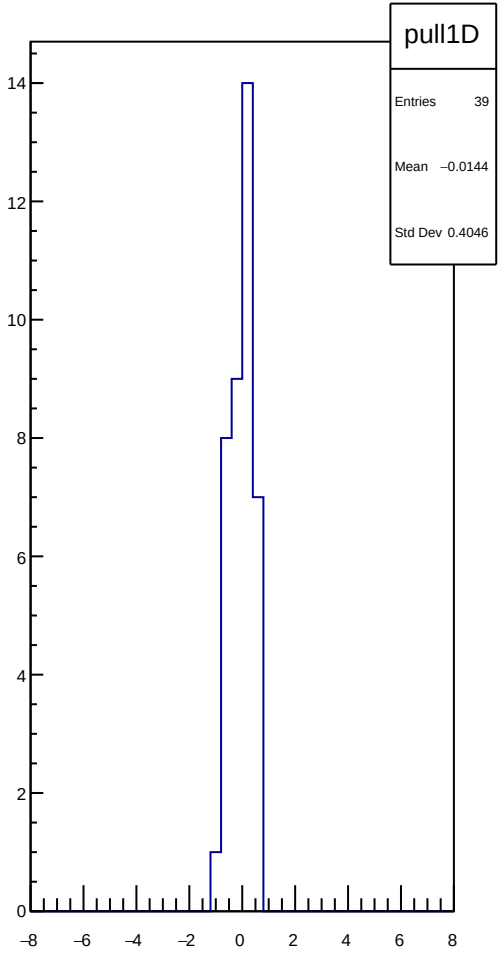

pull1D
Entries 39
Mean −0.001724
Std Dev 0.3794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

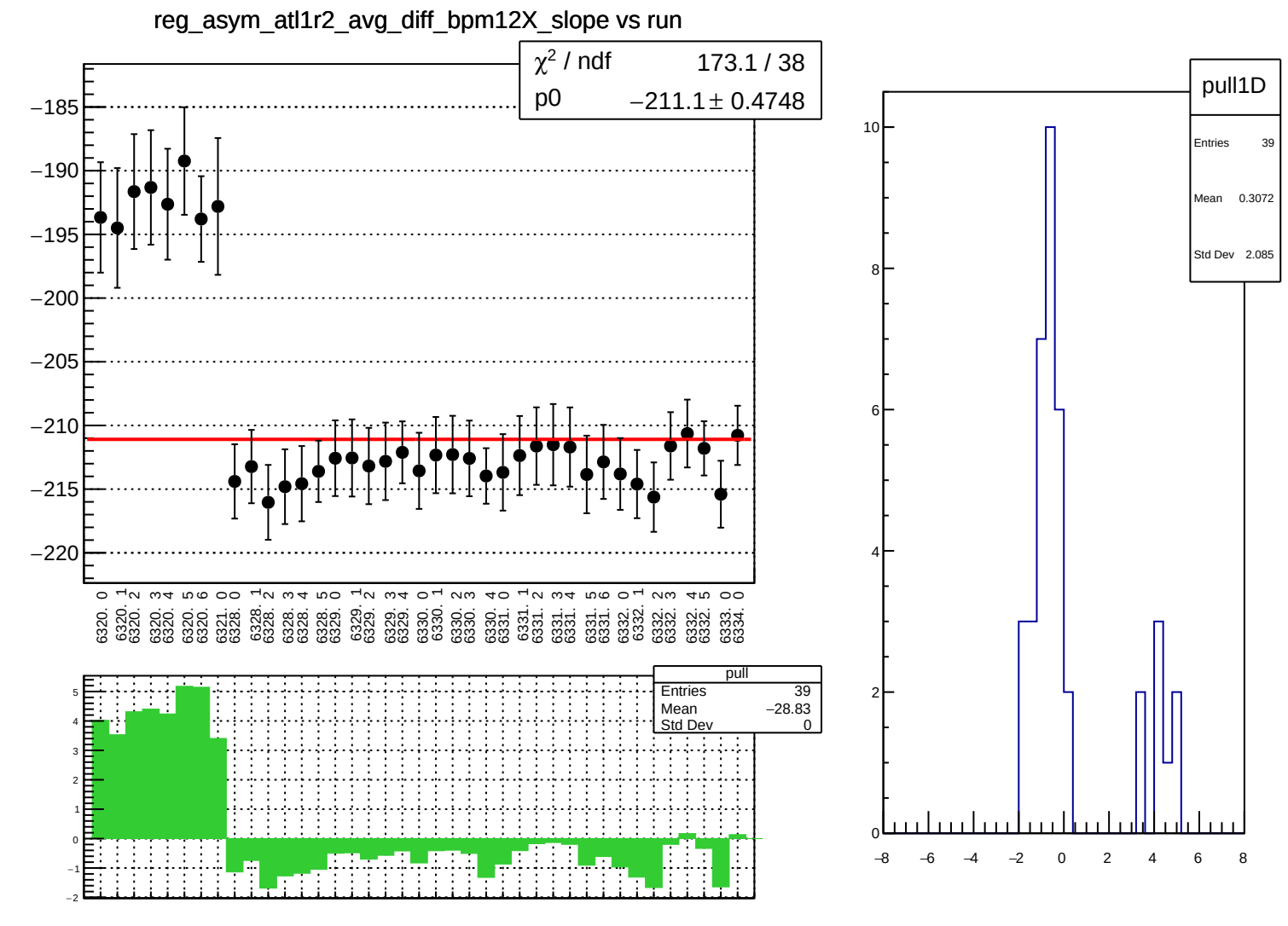

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.243 / 38
p0 −6.996 ± 8.34
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 35.34
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.02207
Std Dev 0.366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

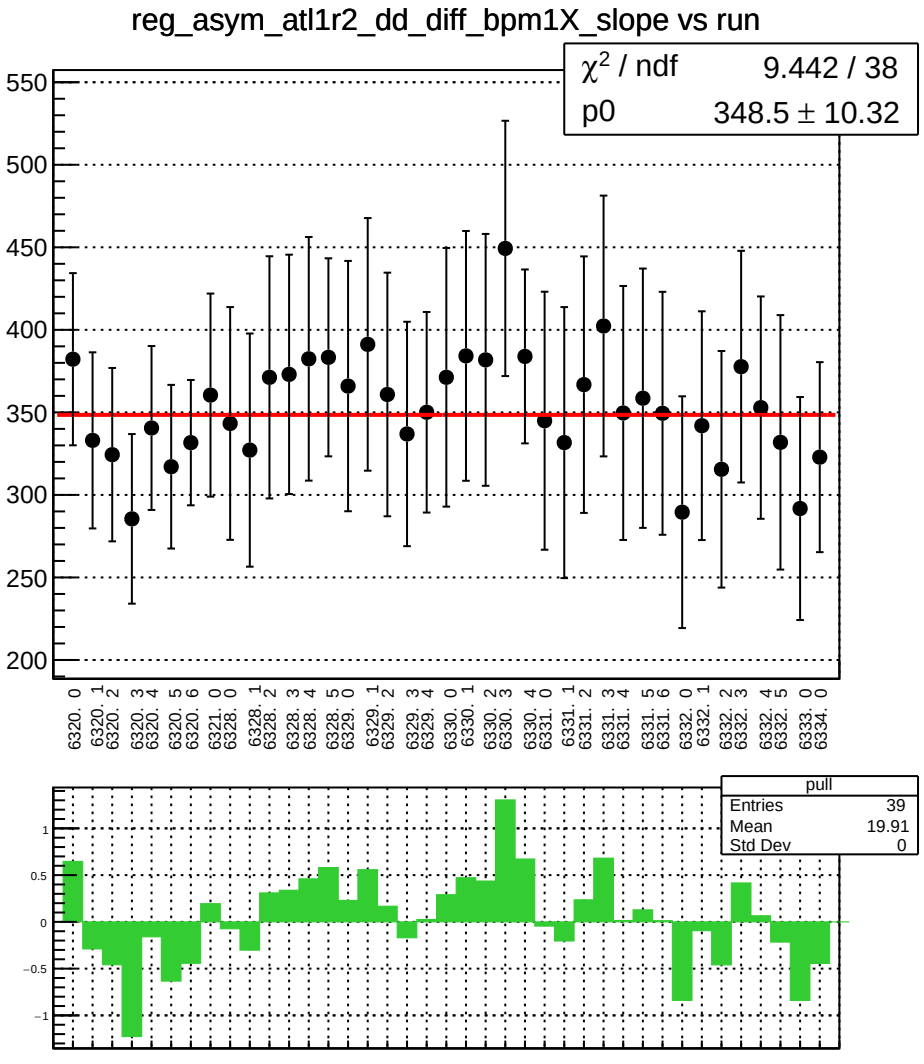

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.798 / 38
p0 496.1 ± 11.97
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 629.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

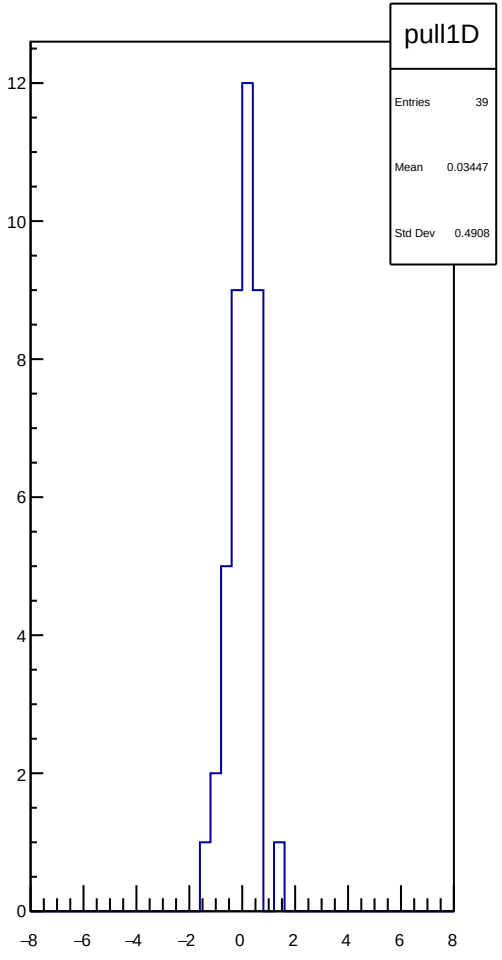

pull1D
Entries 39
Mean −0.001364
Std Dev 0.3856
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

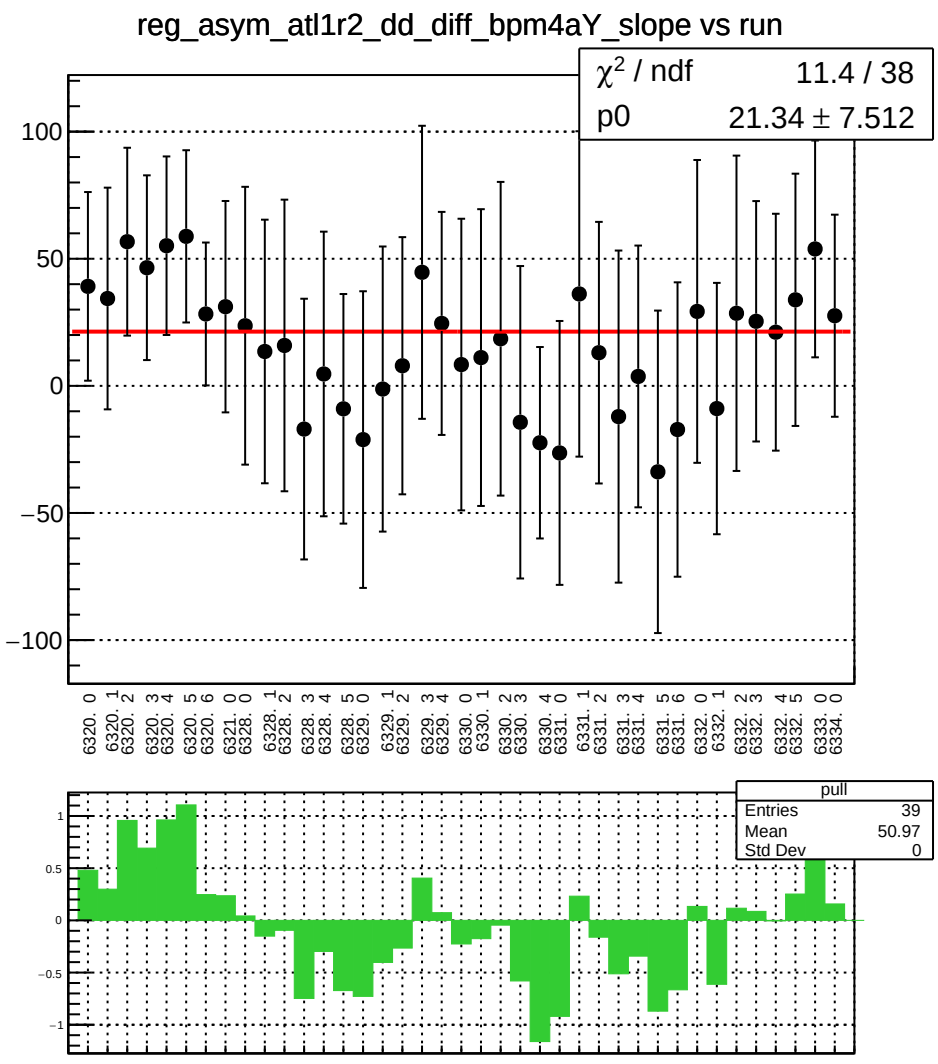

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.391 / 38
p0 109 ± 9.354
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 27.05
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

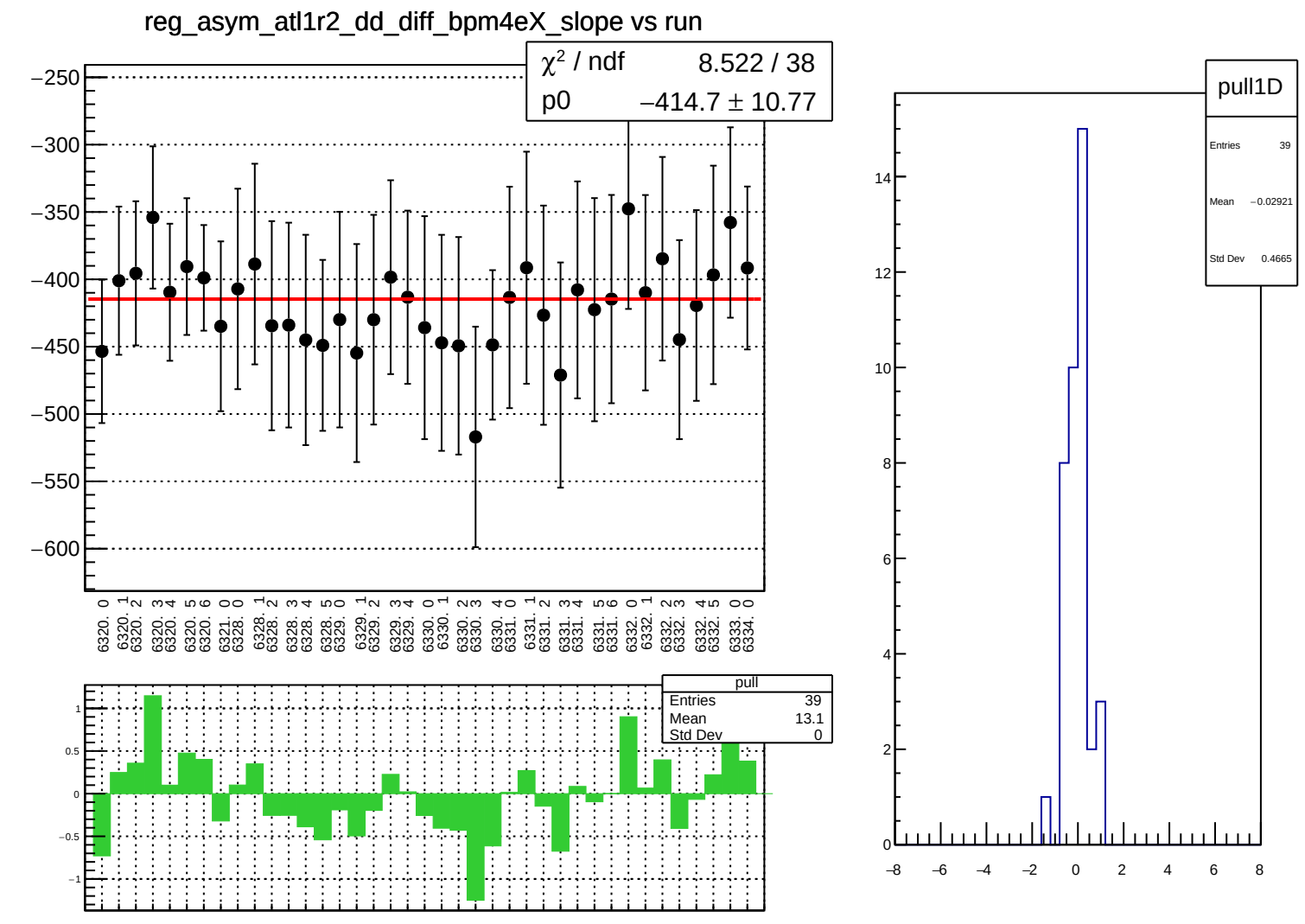

pull1D
Entries 39
Mean −0.0144
Std Dev 0.4046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

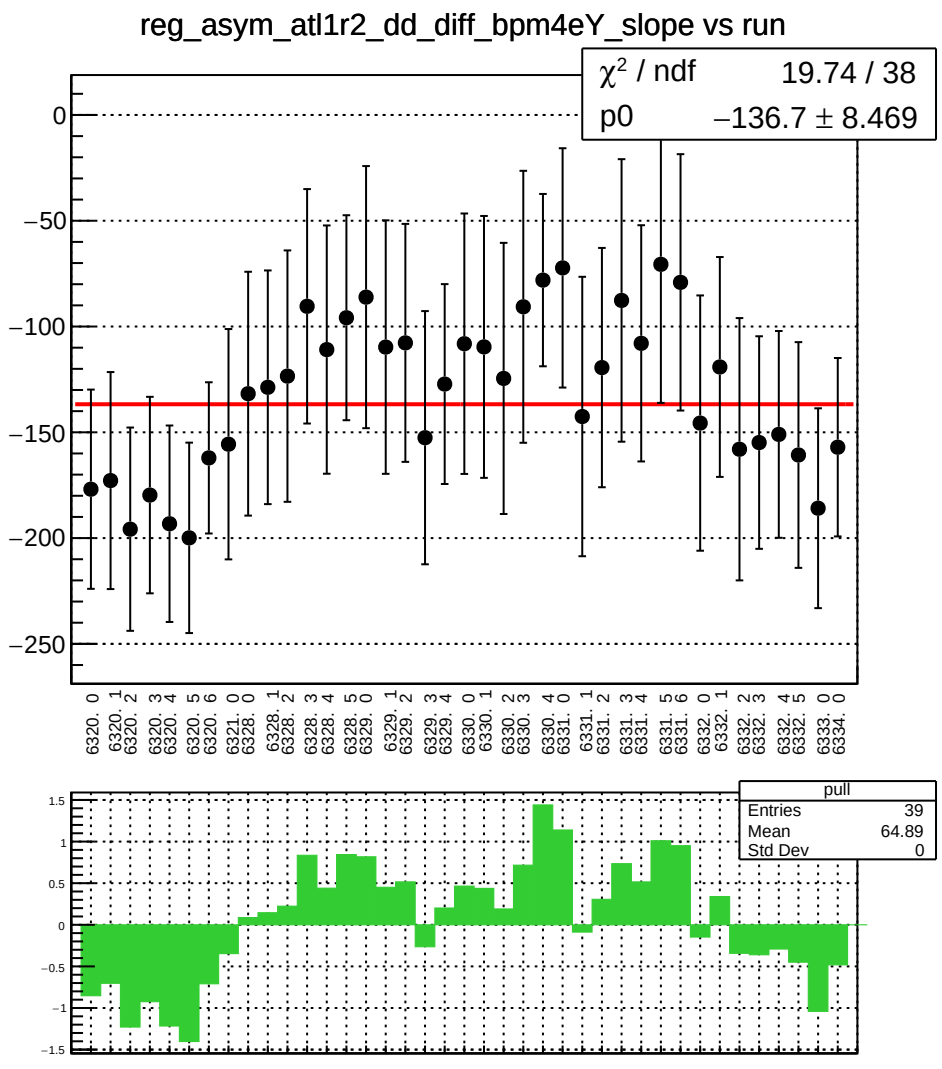

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 173.1 / 38
p0 −211.1 ± 0.4748
−185
−190
−195
−200
−205
−210
−215
−220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.83
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.3072
Std Dev 2.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

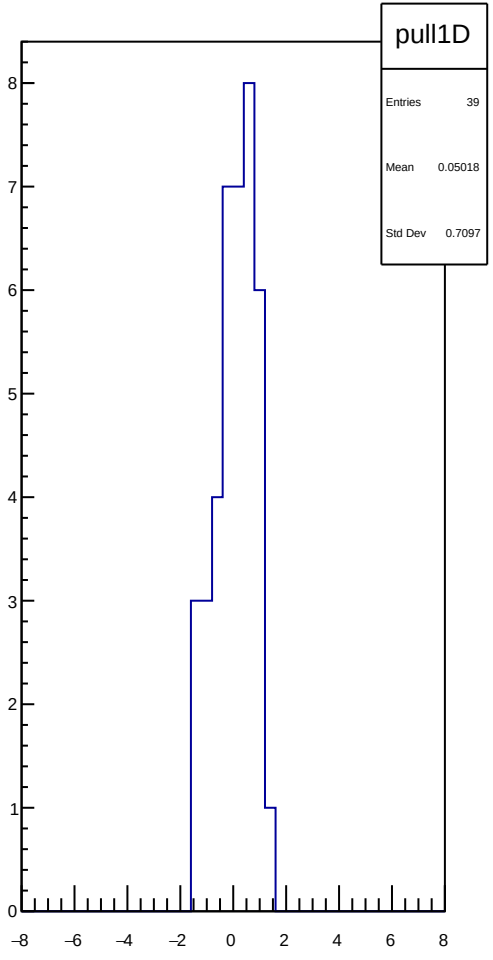

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.442 / 38
p0 348.5 ± 10.32
550
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.91
Std Dev 0
1
0.5
0
−0.5
−1

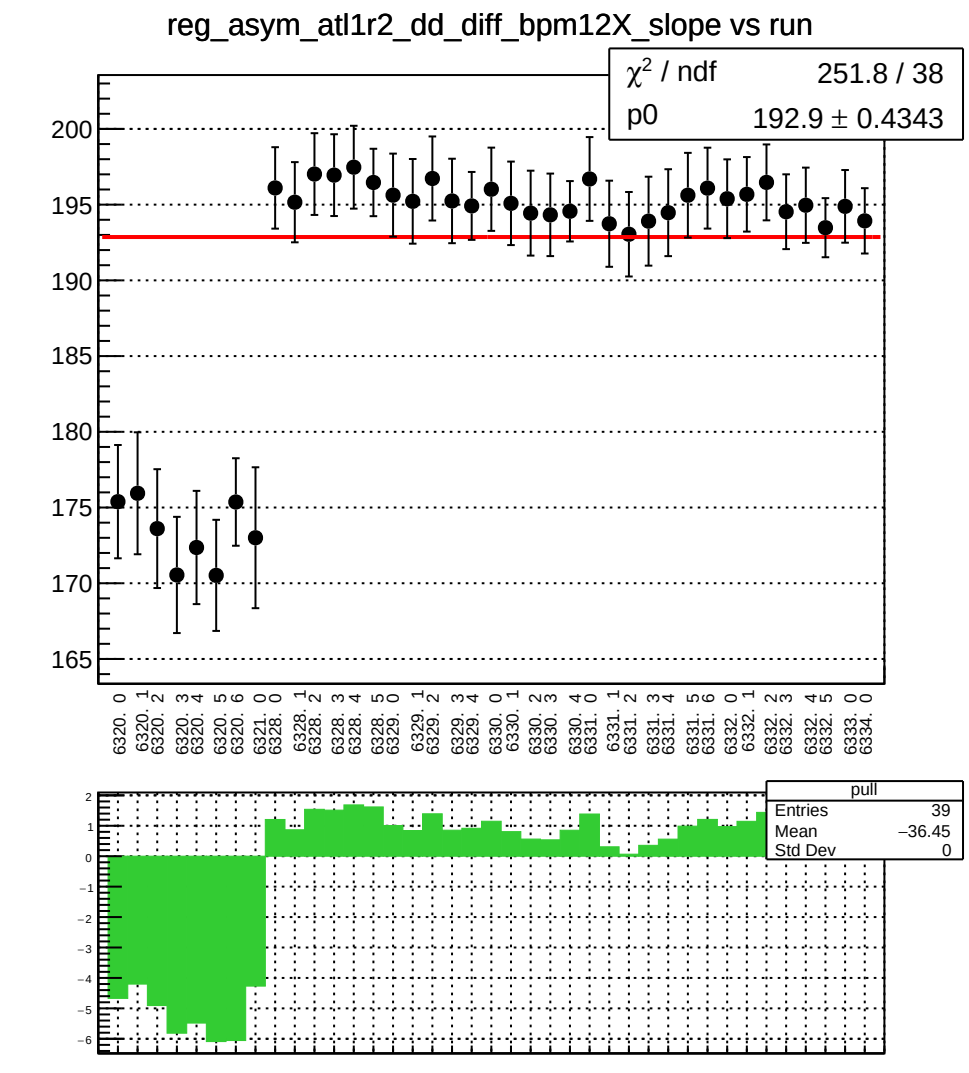

pull1D
Entries 39
Mean 0.03447
Std Dev 0.4908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

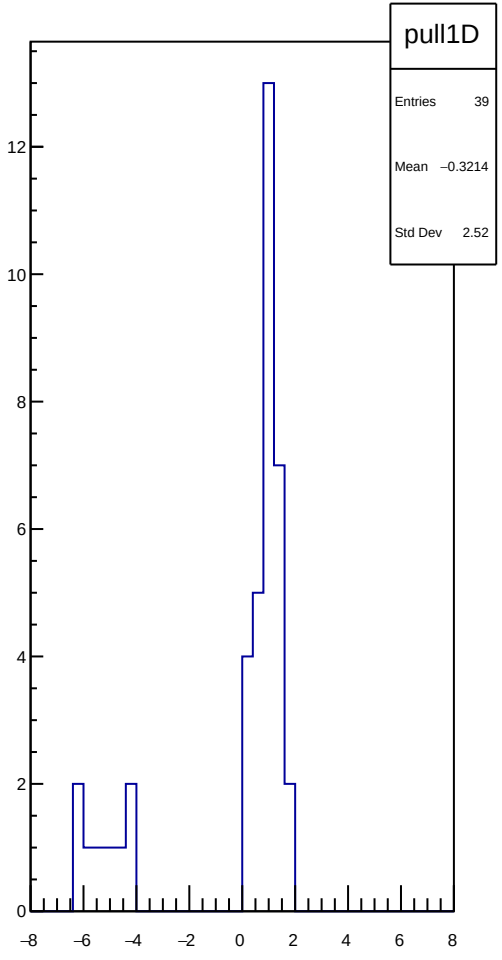

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.4 / 38
p0 21.34 ± 7.512
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 50.97
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.06136
Std Dev 0.5372
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

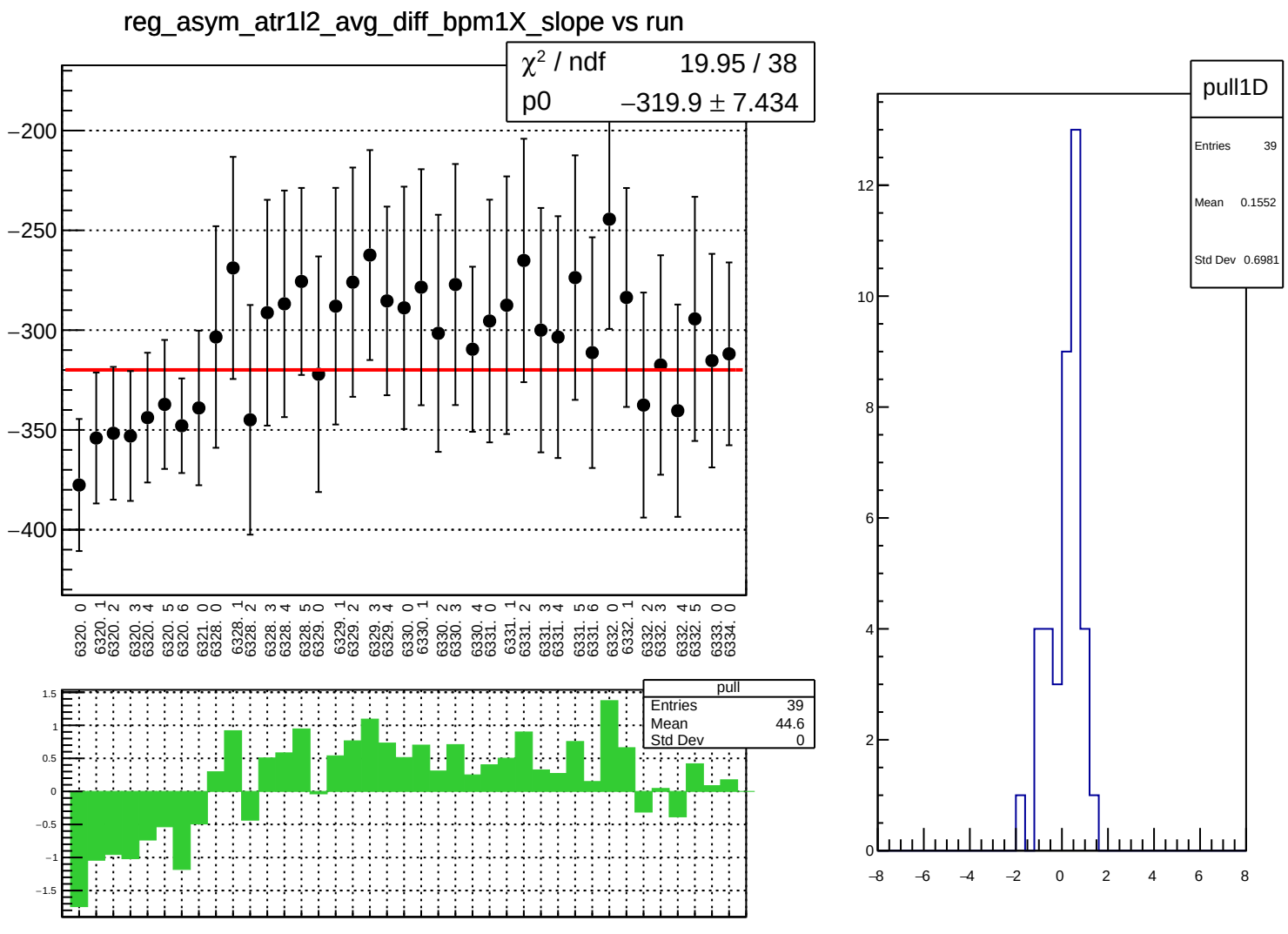

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.522 / 38
p0 −414.7 ± 10.77
−250
−300
−350
−400
−450
−500
−550
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 13.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.02921
Std Dev 0.4665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

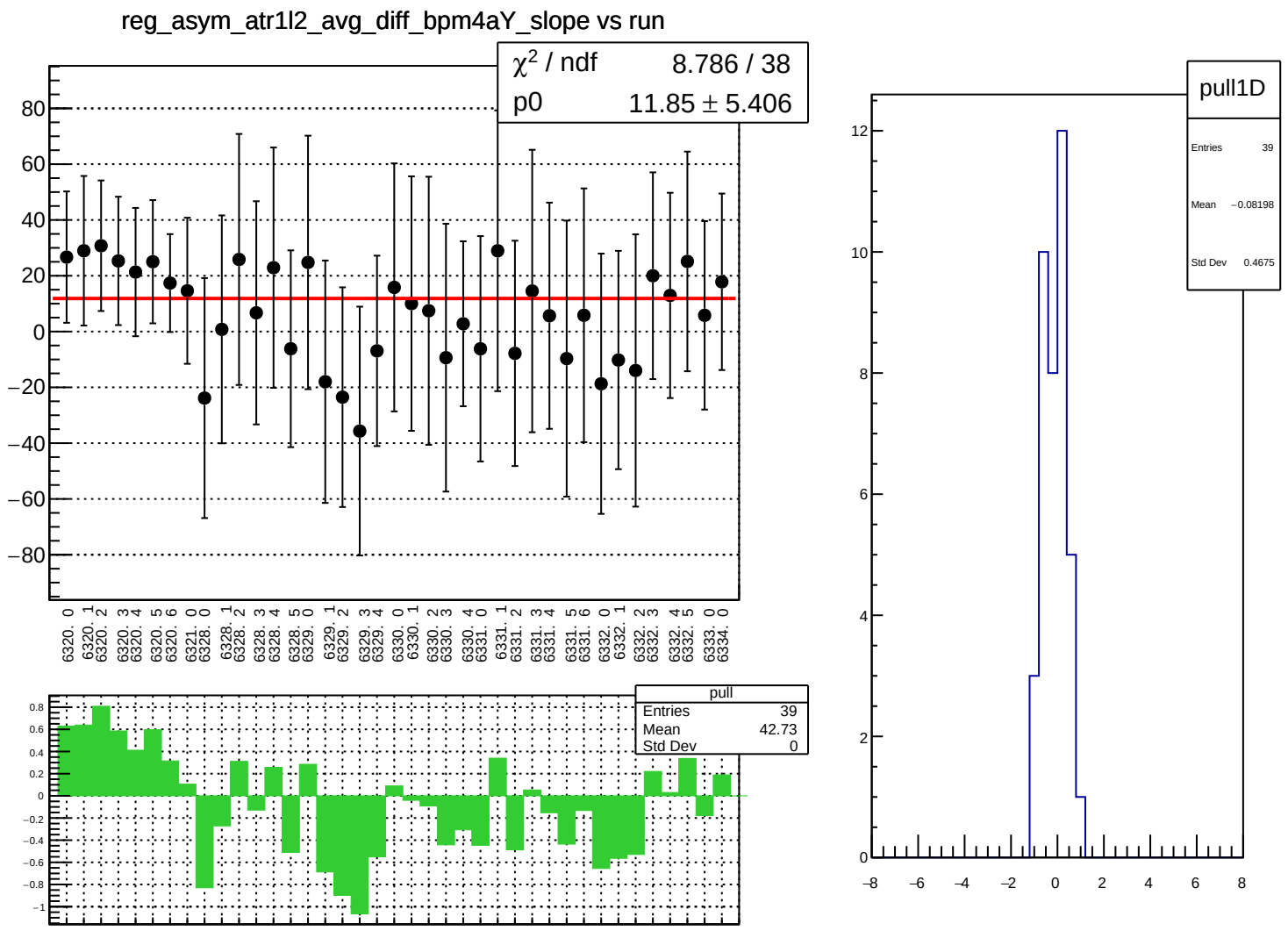

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.74 / 38
p0 −136.7 ± 8.469
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 64.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

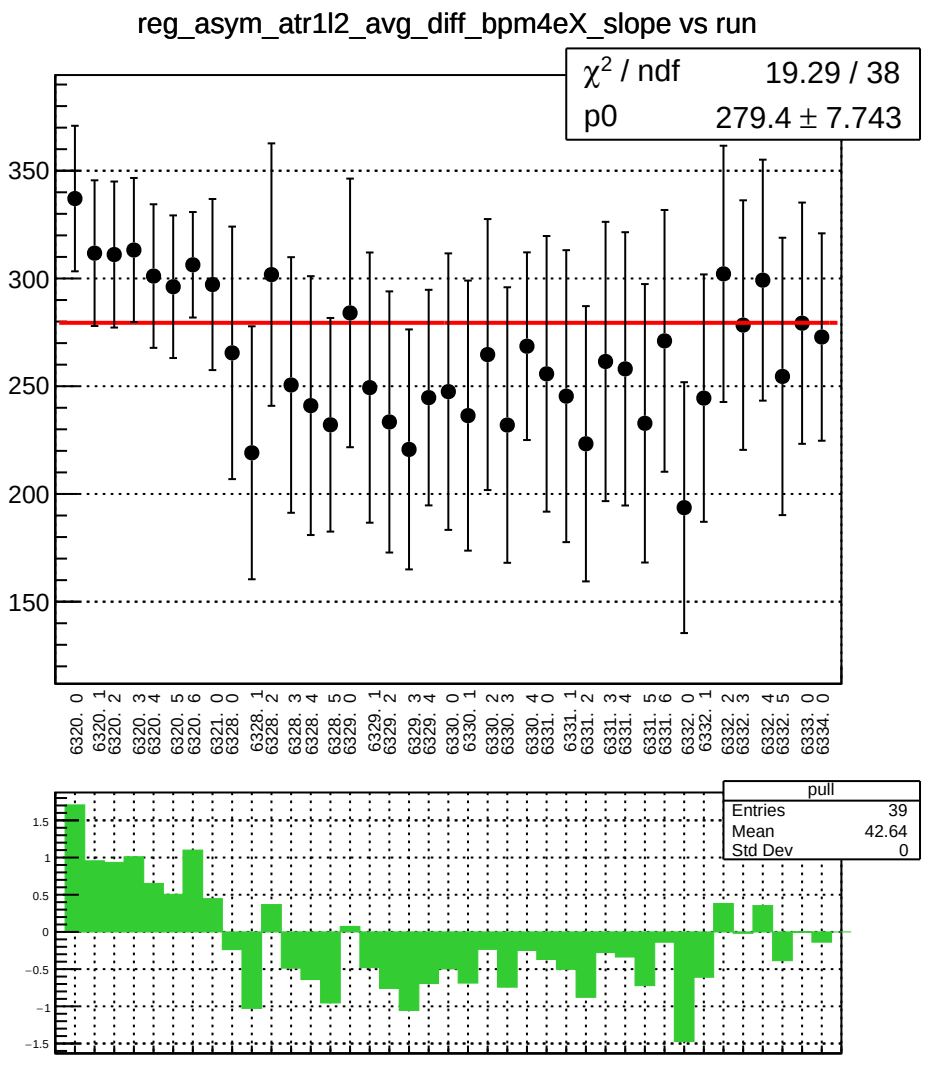

pull1D
Entries 39
Mean 0.05018
Std Dev 0.7097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

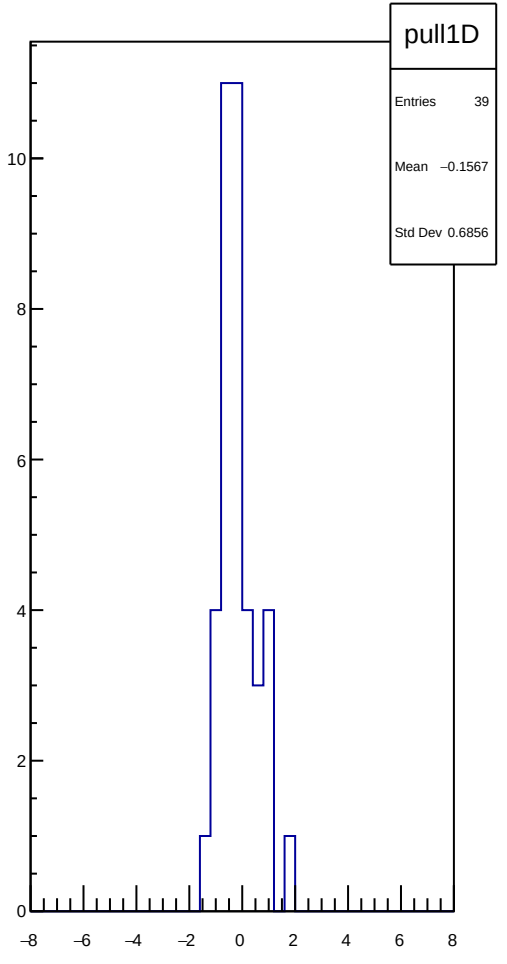

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 251.8 / 38
p0 192.9 ± 0.4343
200
195
190
185
180
175
170
165
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.45
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6

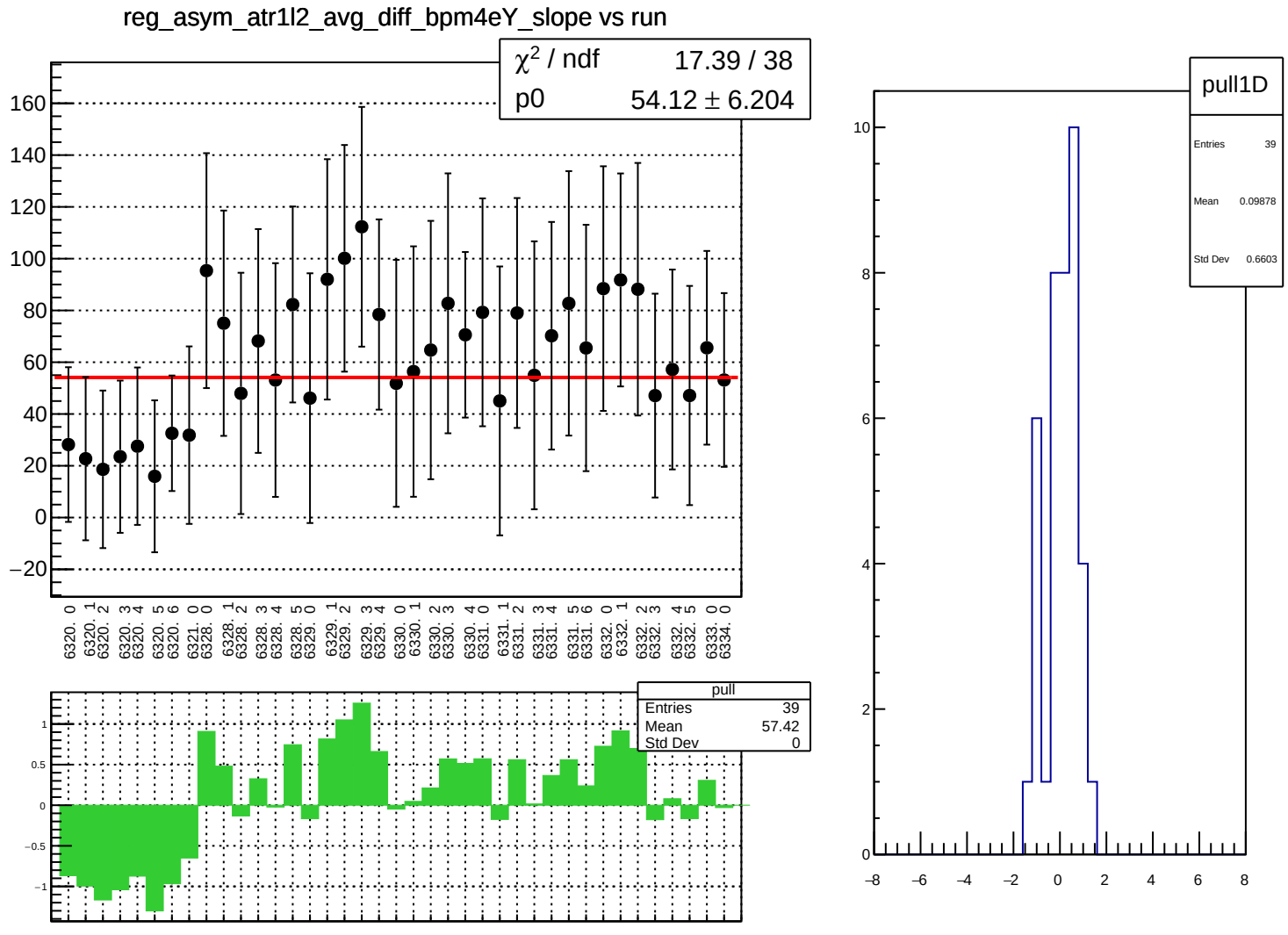

pull1D
Entries 39
Mean −0.3214
Std Dev 2.52
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

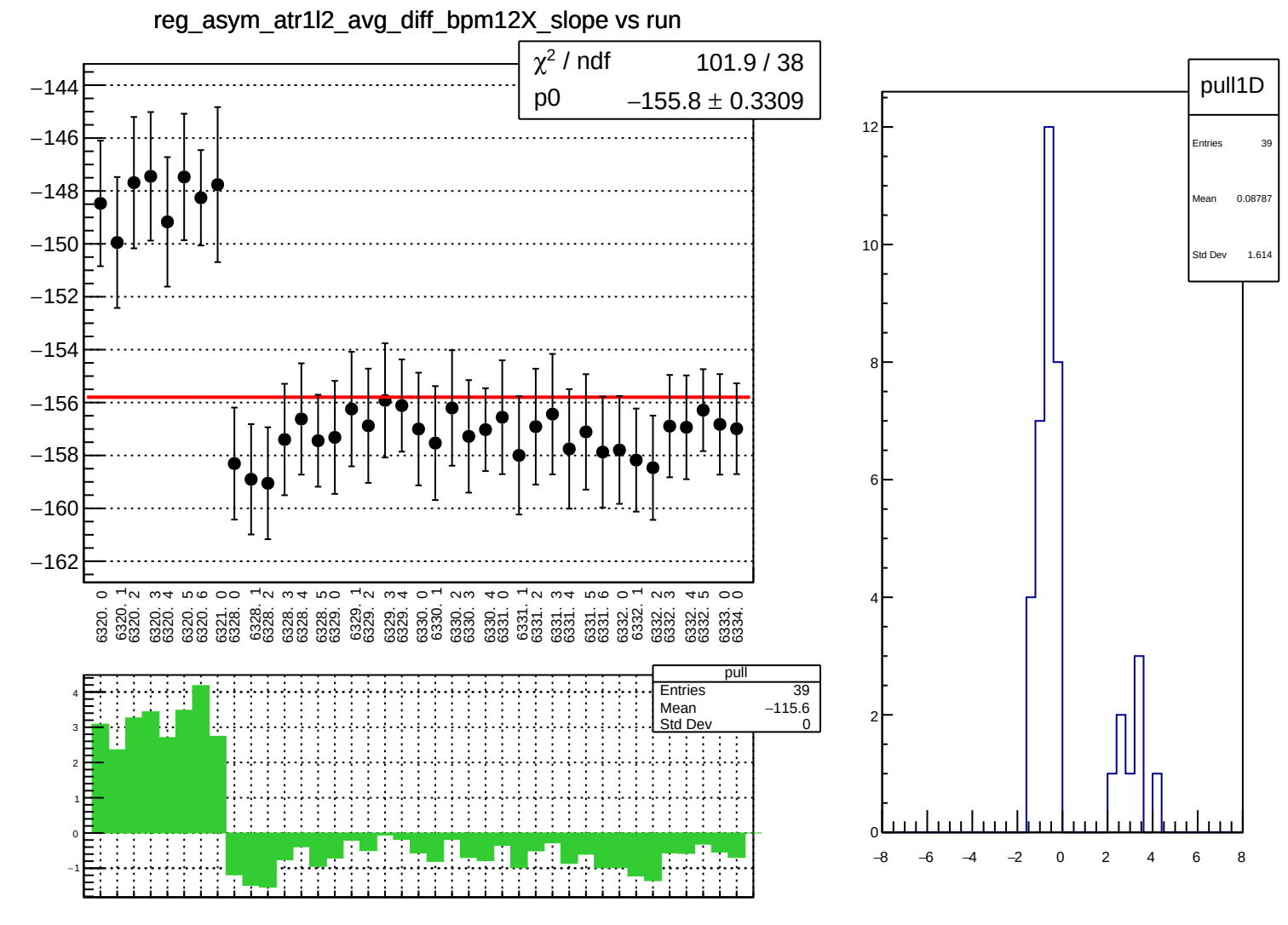

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.95 / 38
p0 −319.9 ± 7.434
−200
−250
−300
−350
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 44.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.1552
Std Dev 0.6981
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

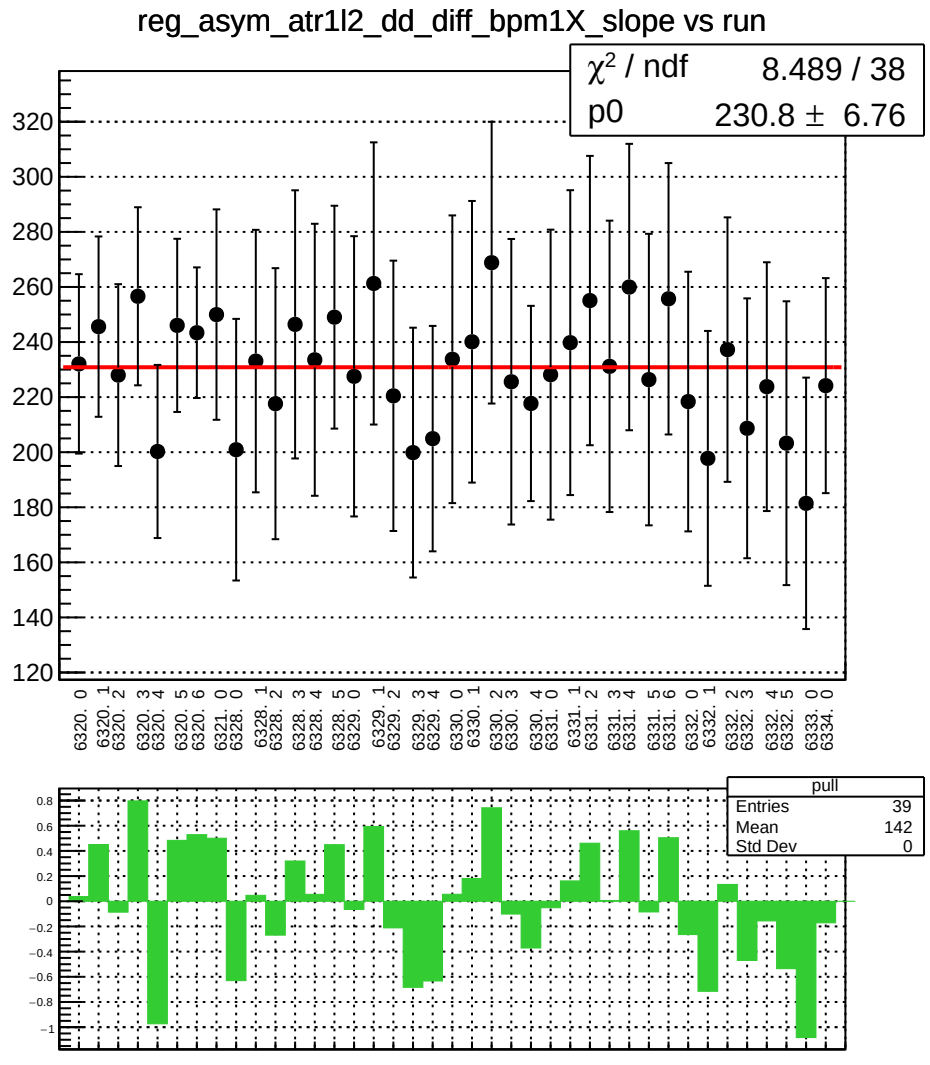

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.786 / 38
p0 11.85 ± 5.406
pull
Entries 39
Mean 42.73
Std Dev 0
pull1D
Entries 39
Mean −0.08198
Std Dev 0.4675

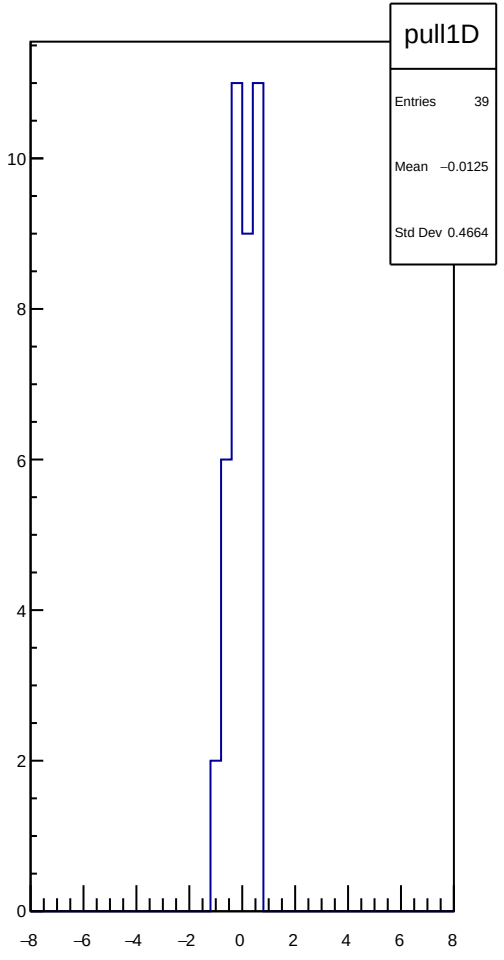

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.29 / 38
p0 279.4 ± 7.743
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

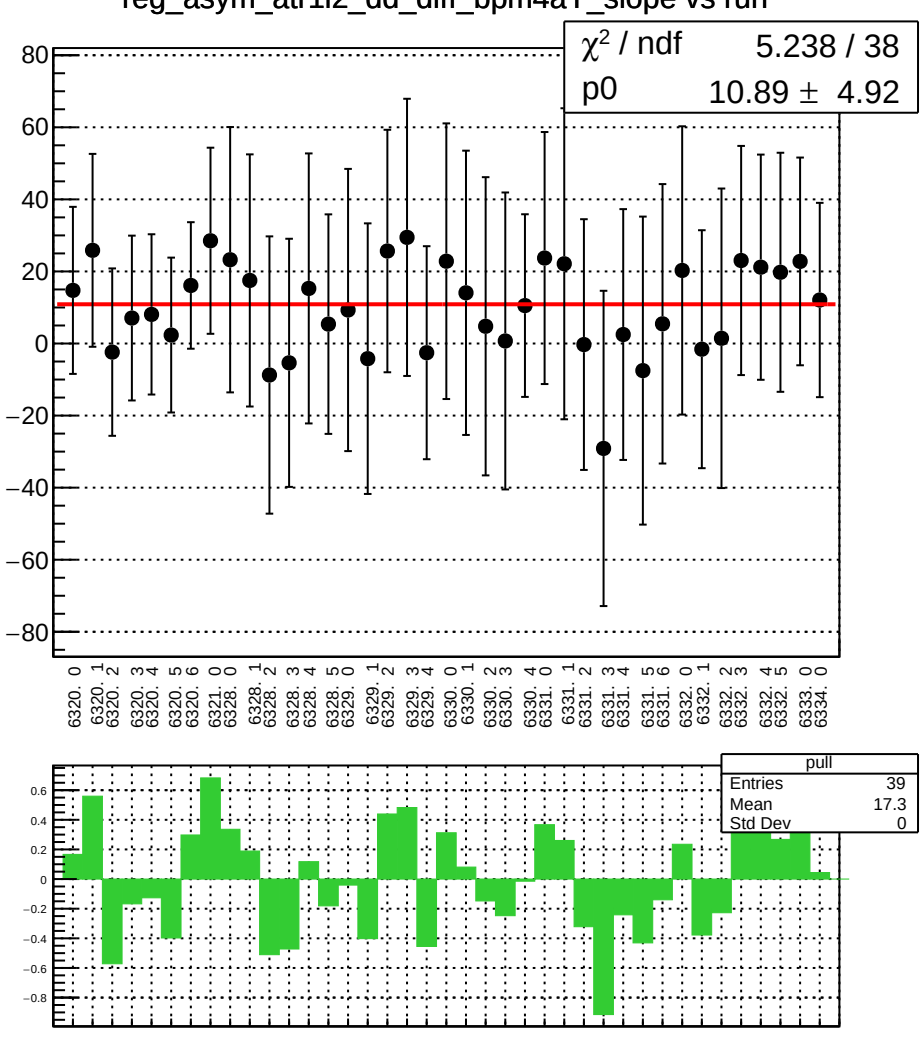

pull1D
Entries 39
Mean −0.1567
Std Dev 0.6856
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

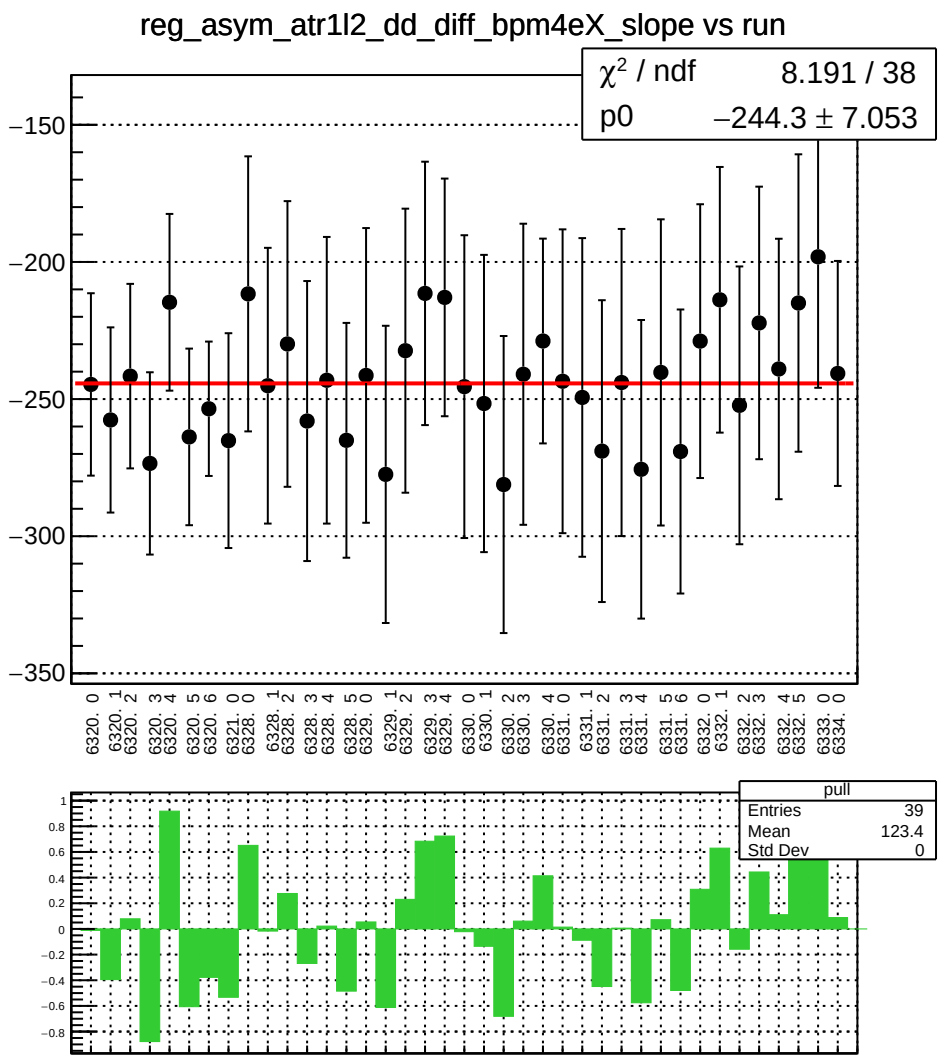

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.39 / 38
p0 54.12 ± 6.204
160
140
120
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.42
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.09878
Std Dev 0.6603
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

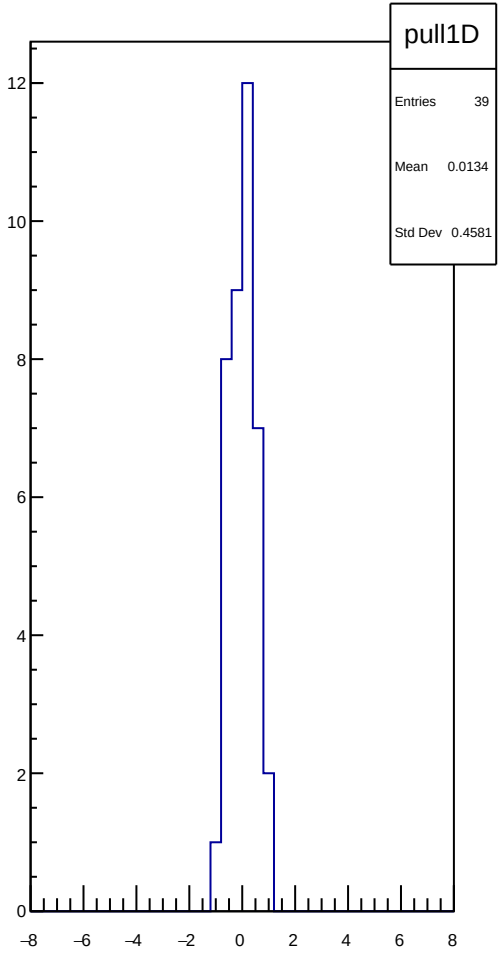

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 101.9 / 38
p0 −155.8 ± 0.3309
pull
Entries 39
Mean −115.6
Std Dev 0
pull1D
Entries 39
Mean 0.08787
Std Dev 1.614

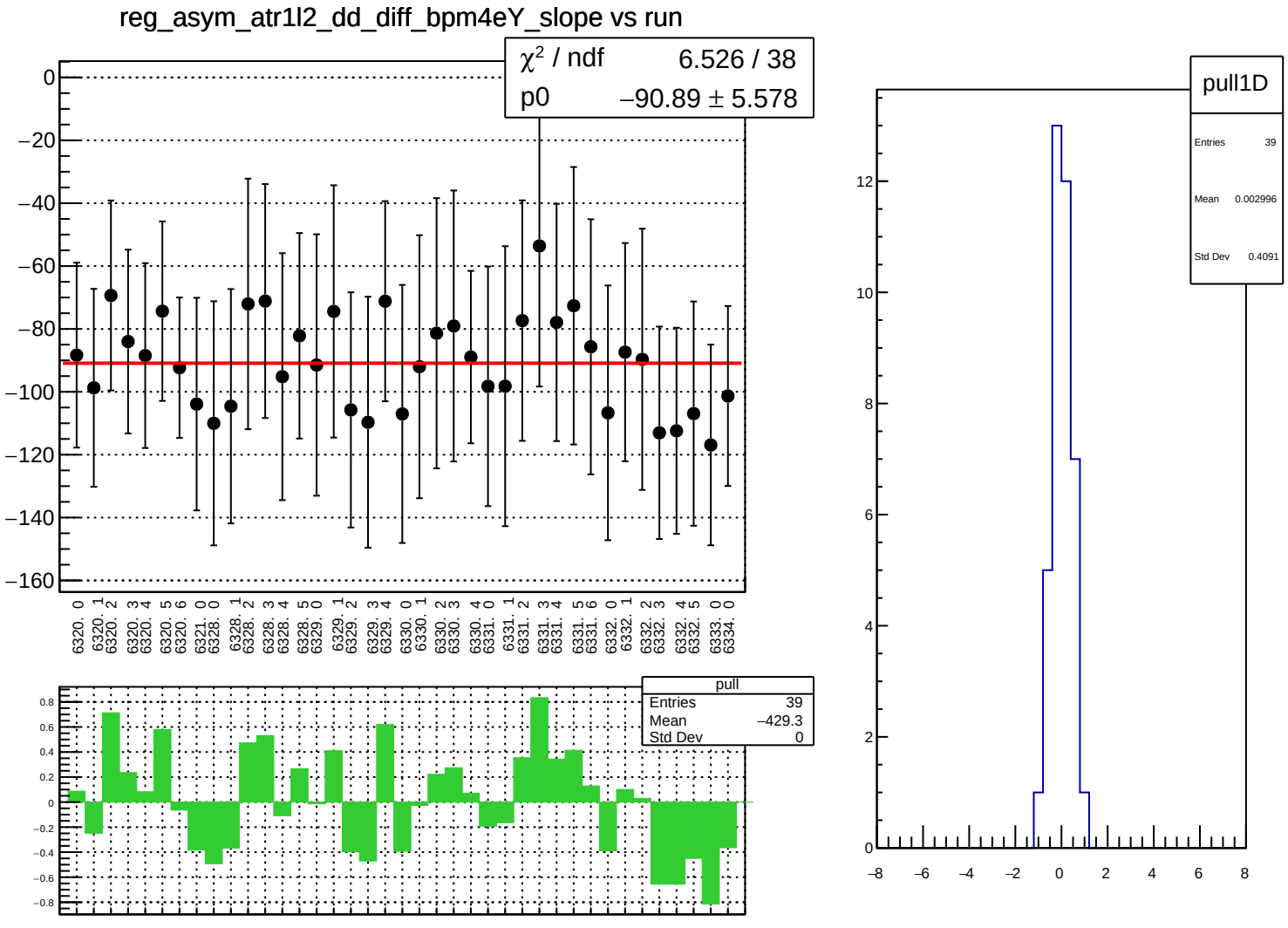

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.489 / 38
p0 230.8 ± 6.76
320
300
280
260
240
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 142
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

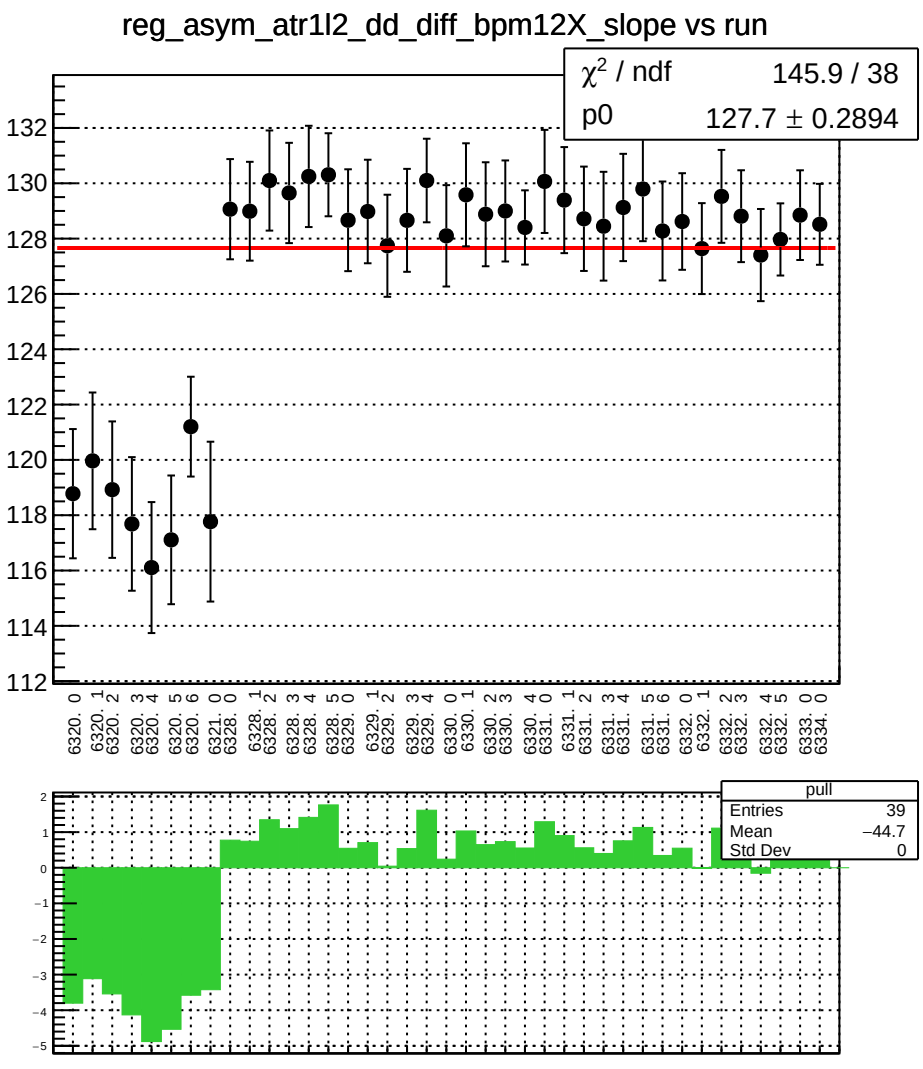

pull1D
Entries 39
Mean −0.0125
Std Dev 0.4664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

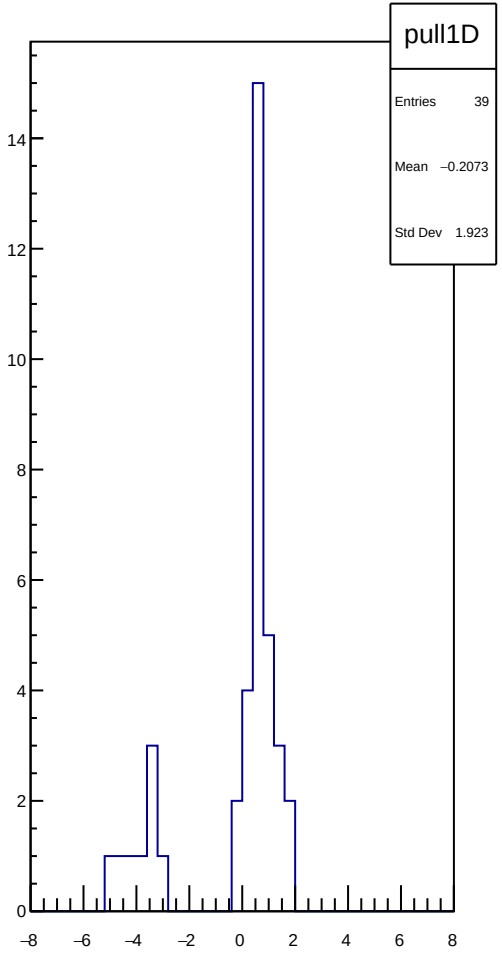

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.238 / 38
p0 10.89 ± 4.92
pull
Entries 39
Mean 17.3
Std Dev 0
pull1D
Entries 39
Mean −0.01084
Std Dev 0.3663

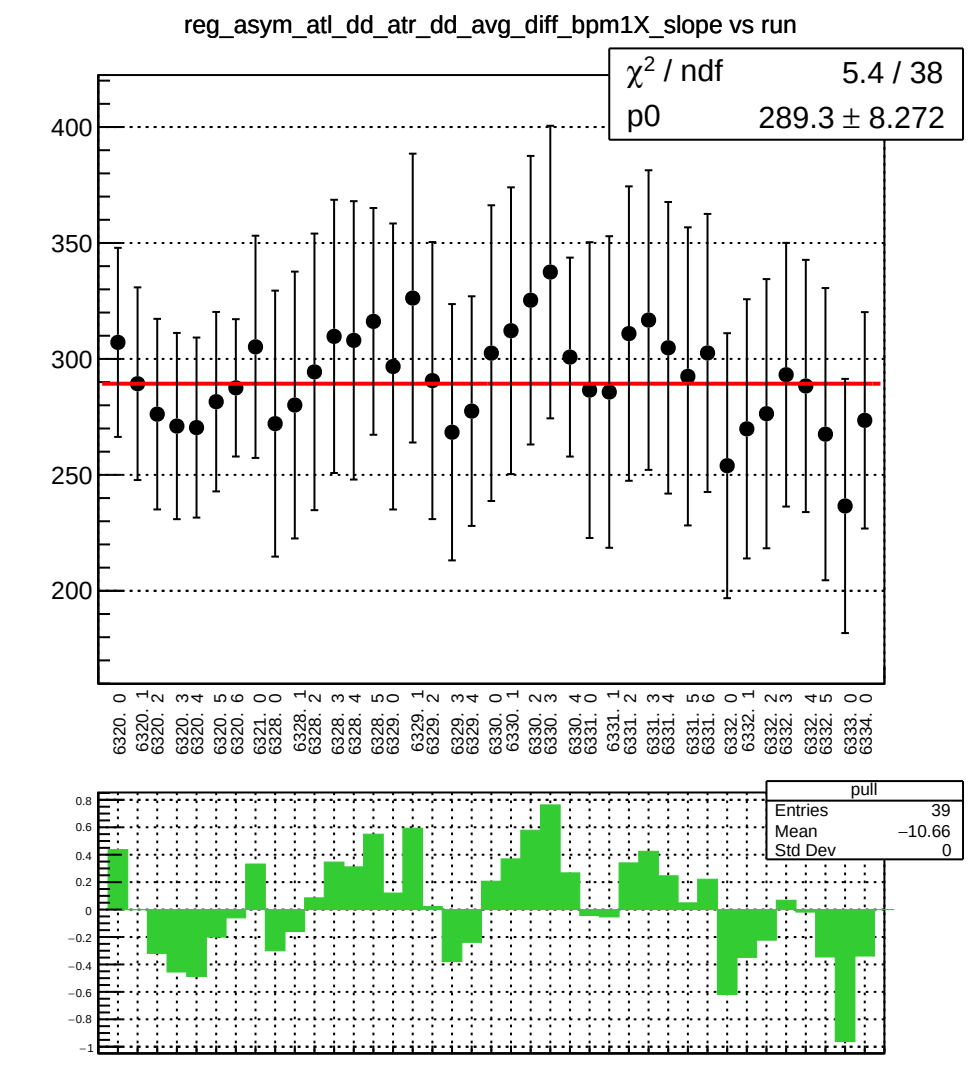

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.191 / 38
p0 −244.3 ± 7.053
−150
−200
−250
−300
−350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 123.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

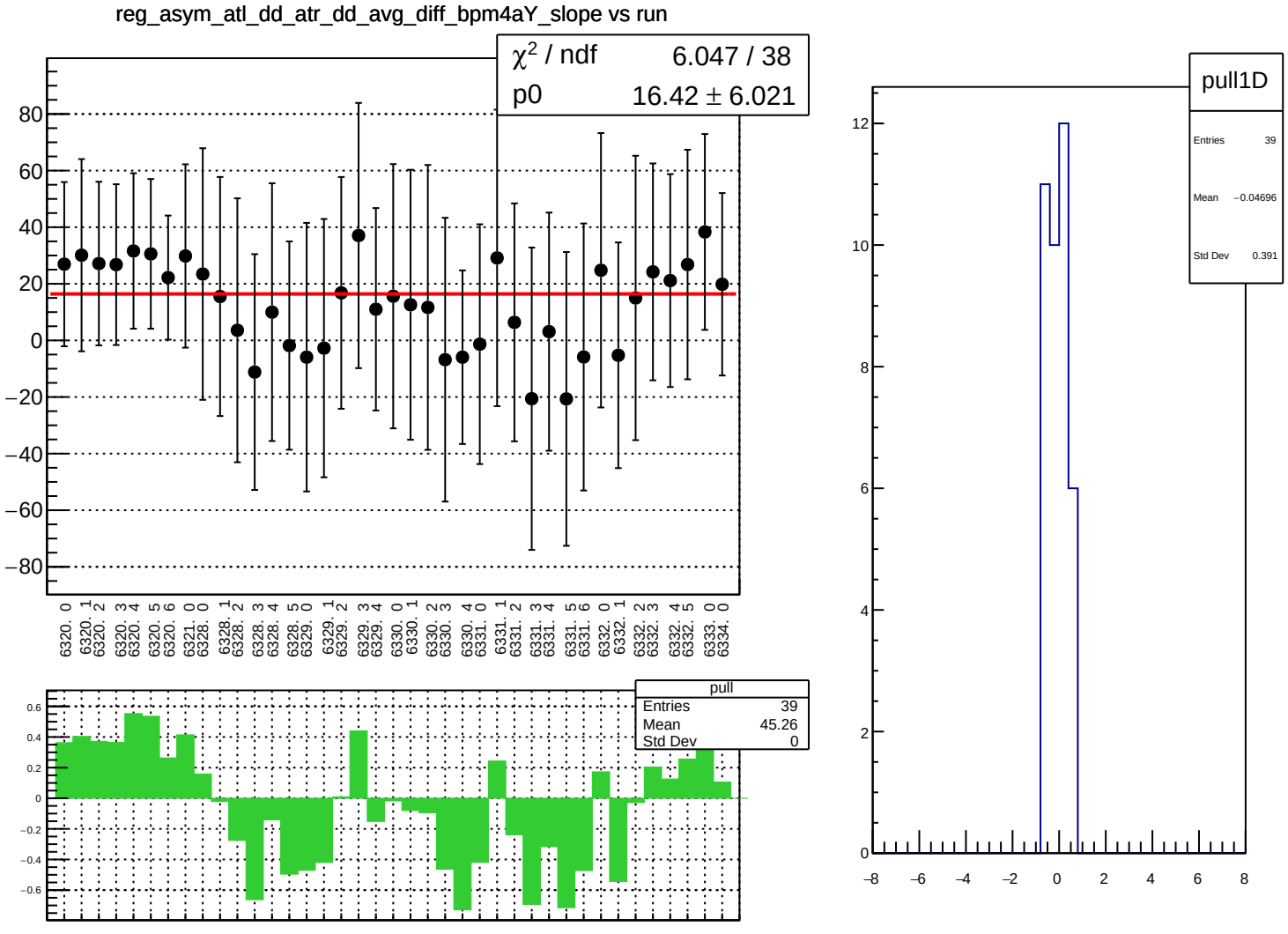

pull1D
Entries 39
Mean 0.0134
Std Dev 0.4581
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

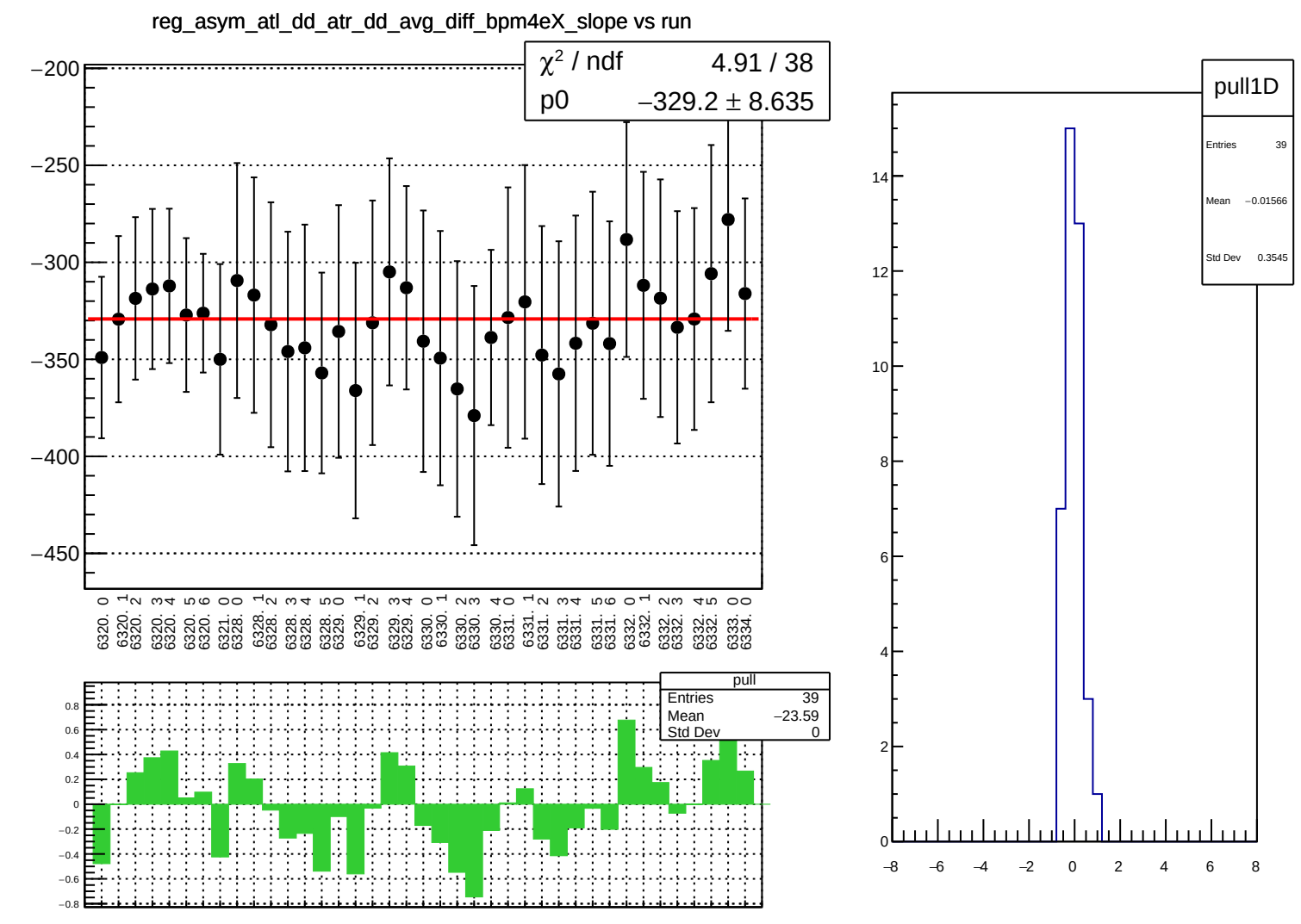

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.526 / 38
p0 −90.89 ± 5.578
0
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −429.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean 0.002996
Std Dev 0.4091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

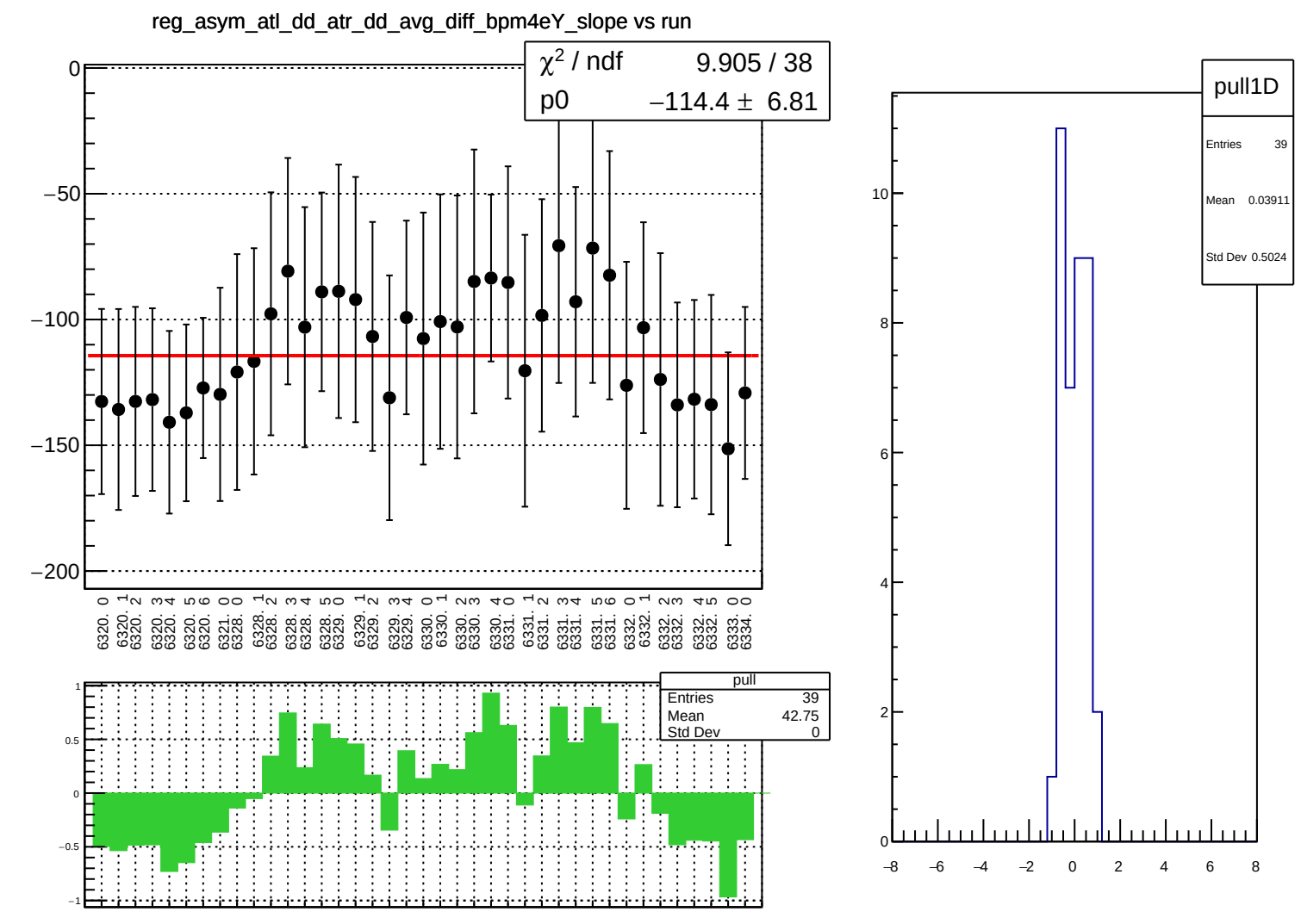

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 145.9 / 38
p0 127.7 ± 0.2894
pull
Entries 39
Mean −44.7
Std Dev 0

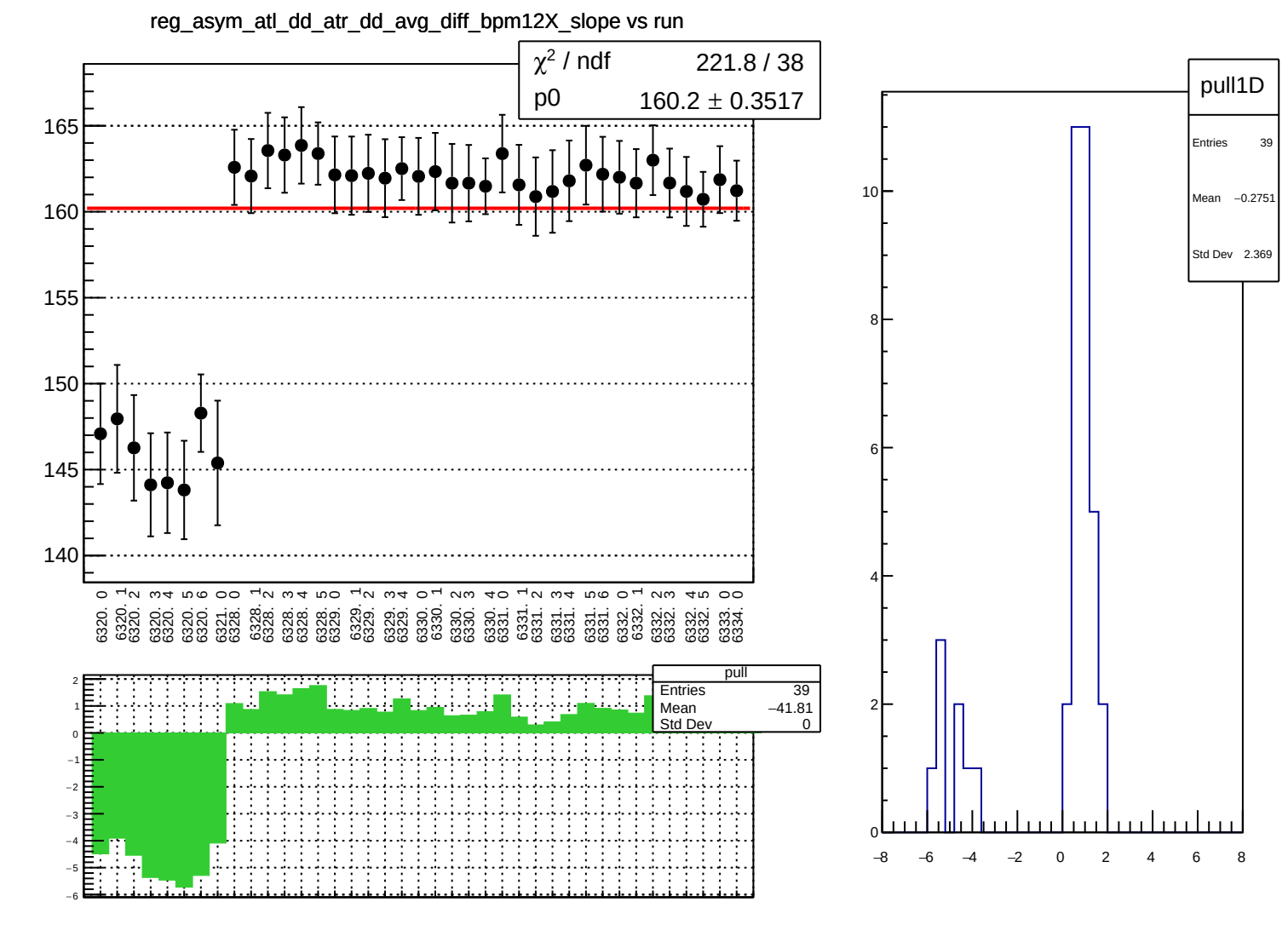

pull1D
Entries 39
Mean −0.2073
Std Dev 1.923

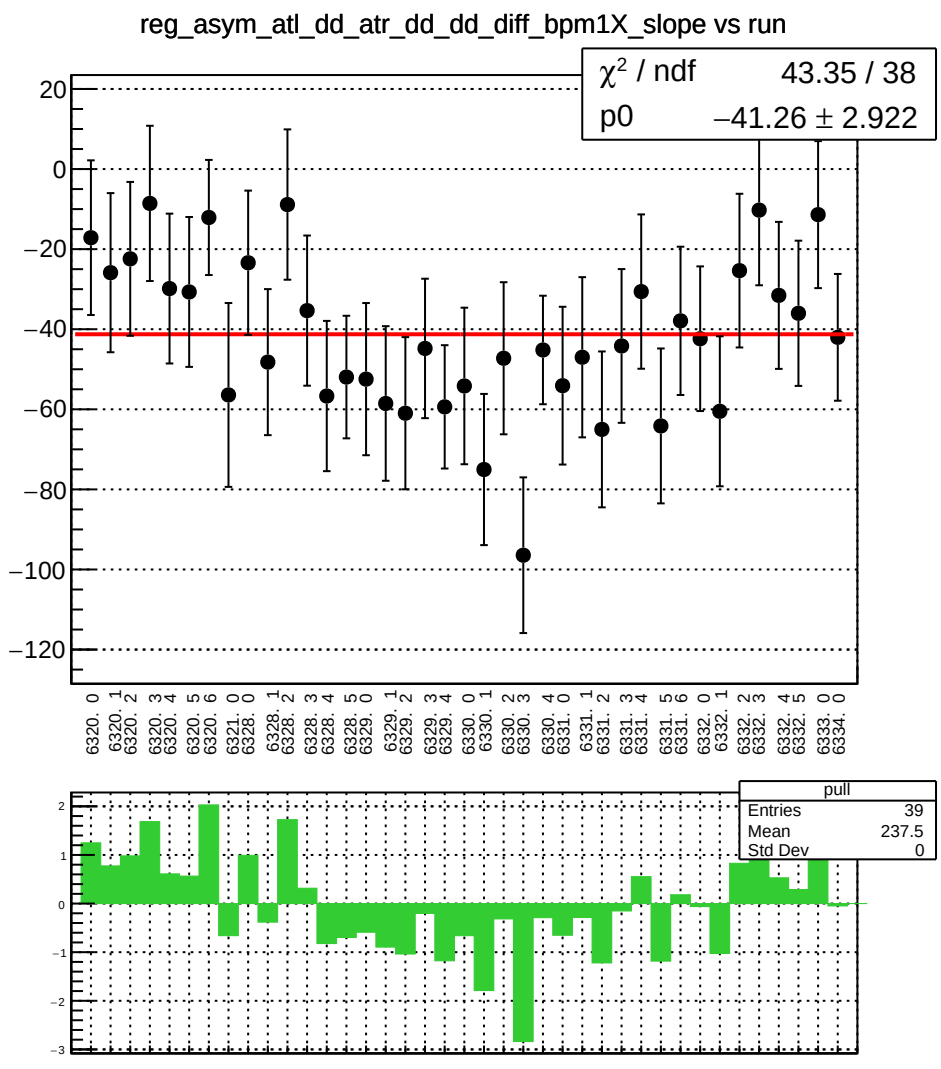

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 5.4 / 38
p0 289.3 ± 8.272
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.66
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.02
Std Dev 0.3716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

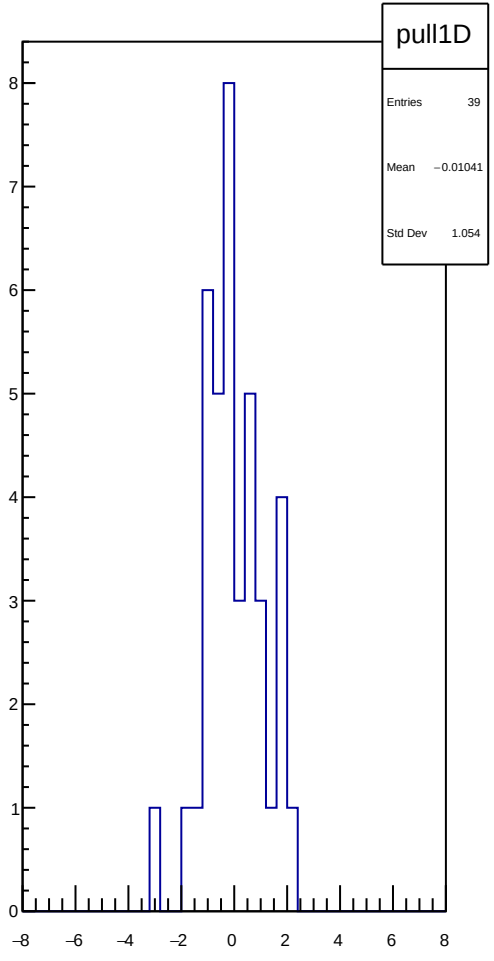

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.047 / 38
p0 16.42 ± 6.021
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.26
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.04696
Std Dev 0.391
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

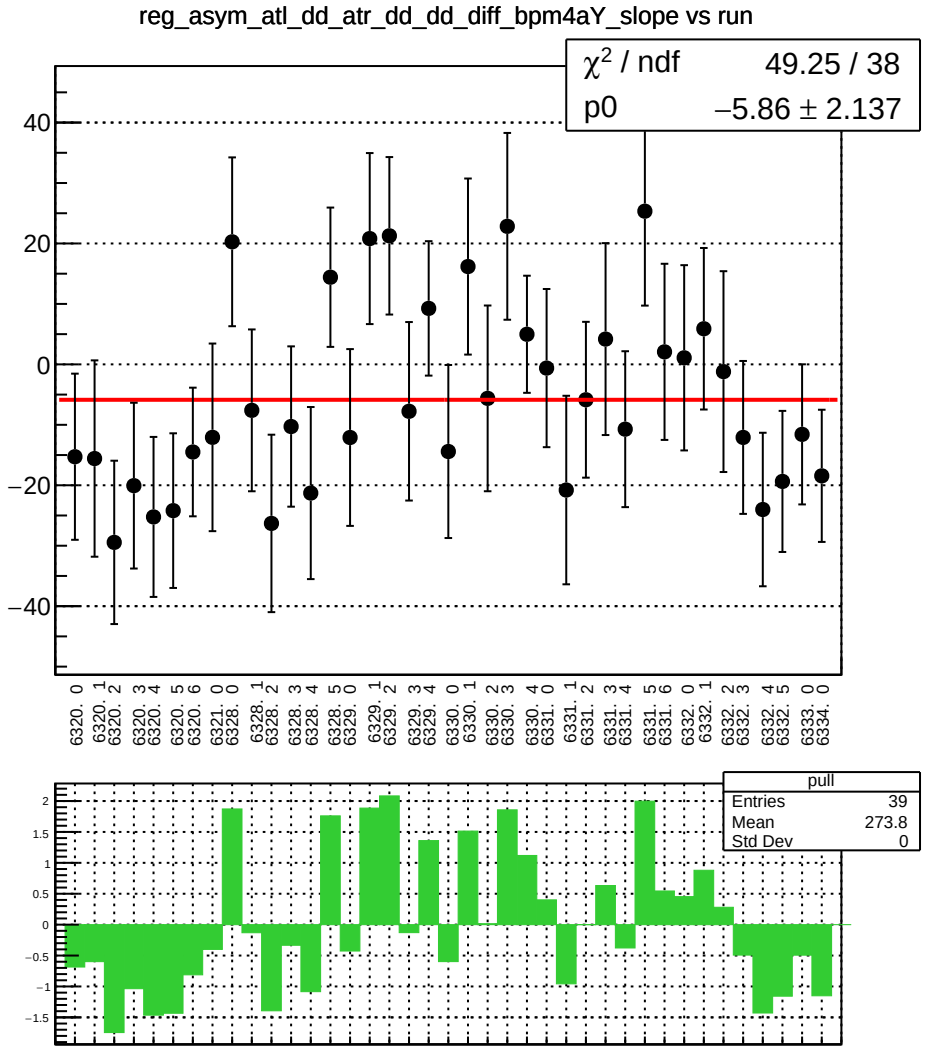

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.91 / 38
p0 −329.2 ± 8.635
−200
−250
−300
−350
−400
−450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.59
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.01566
Std Dev 0.3545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

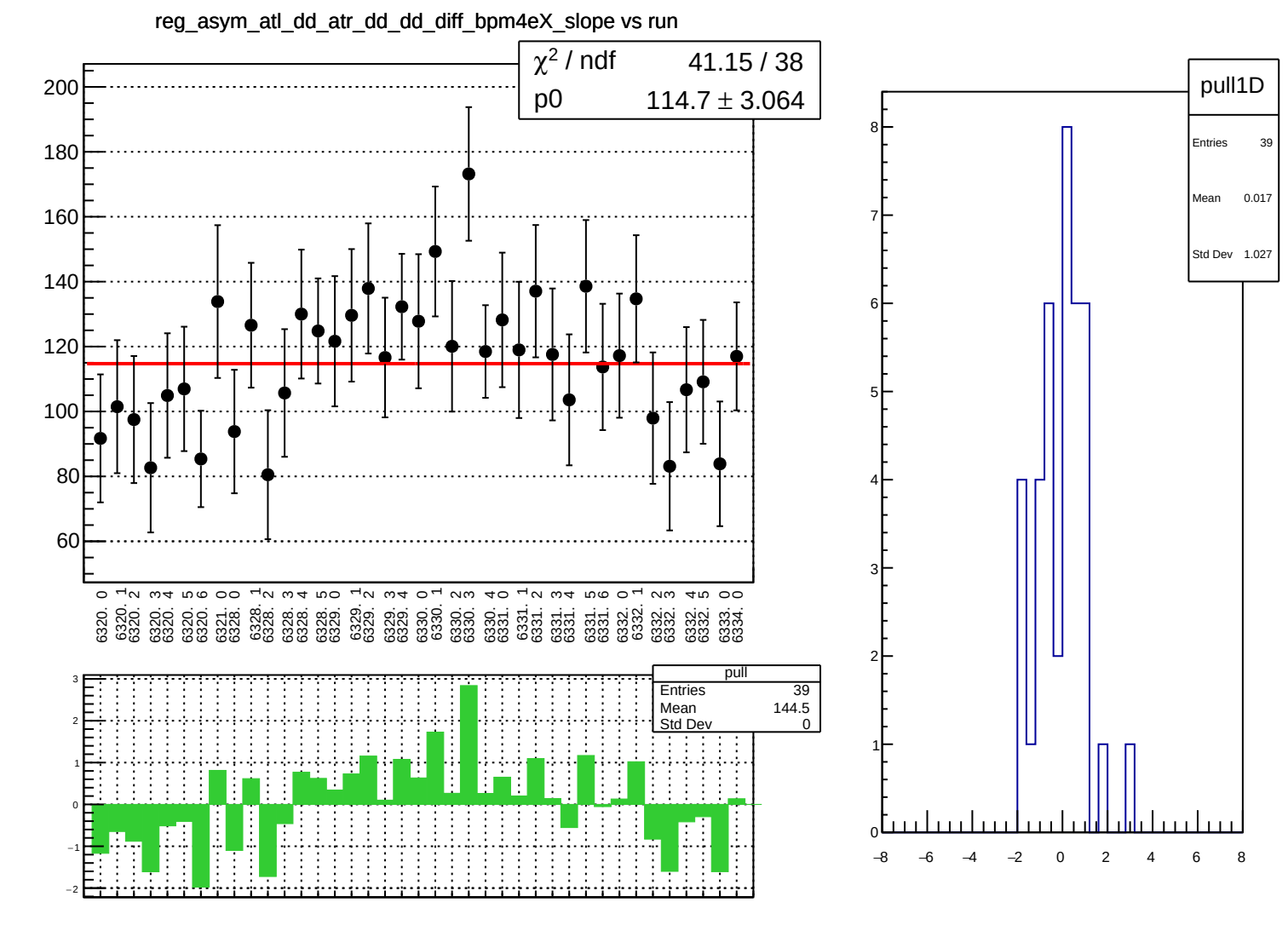

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.905 / 38
p0 −114.4 ± 6.81
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.75
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.03911
Std Dev 0.5024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

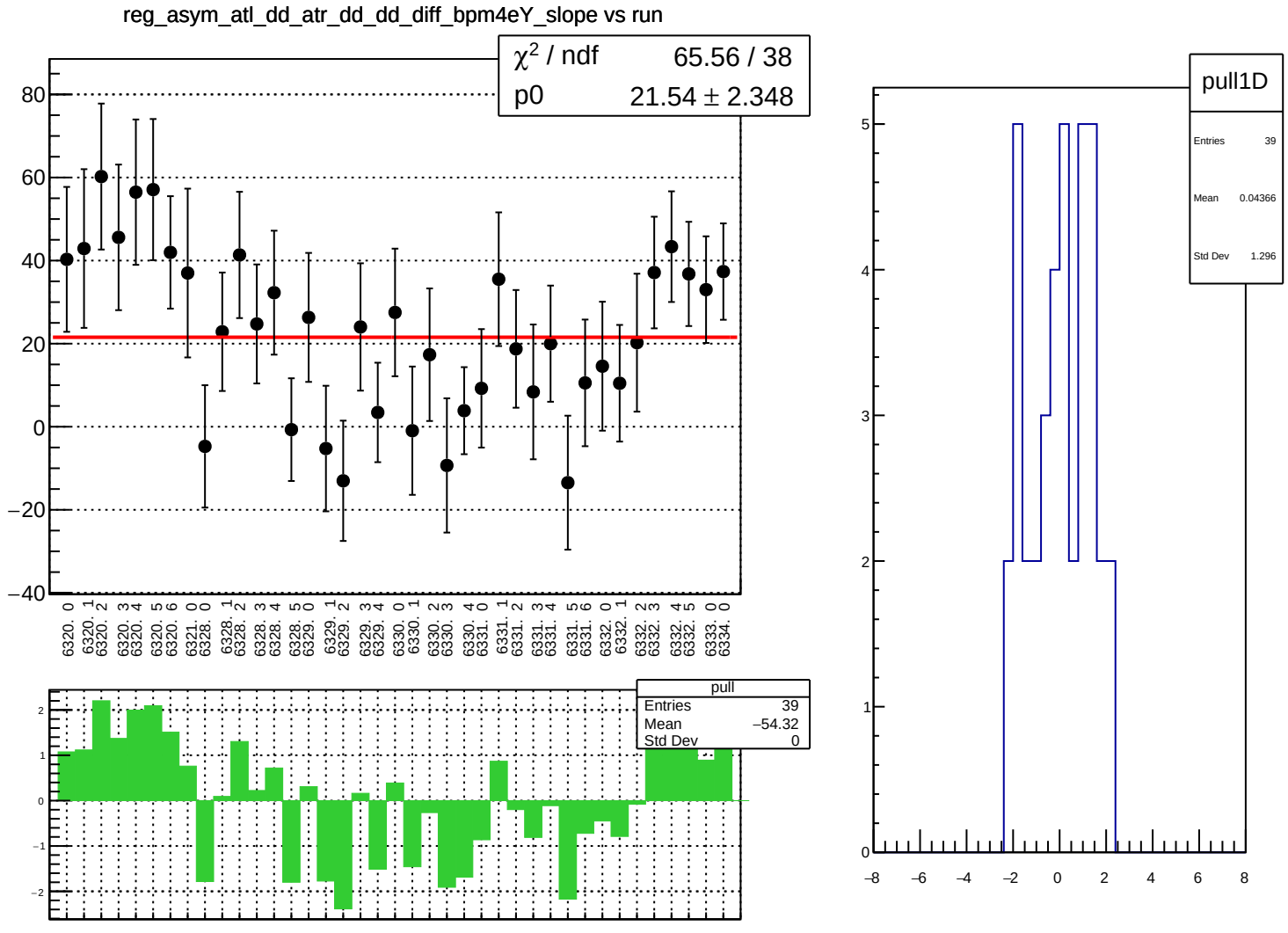

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 221.8 / 38
p0 160.2 ± 0.3517
pull
Entries 39
Mean −41.81
Std Dev 0
pull1D
Entries 39
Mean −0.2751
Std Dev 2.369

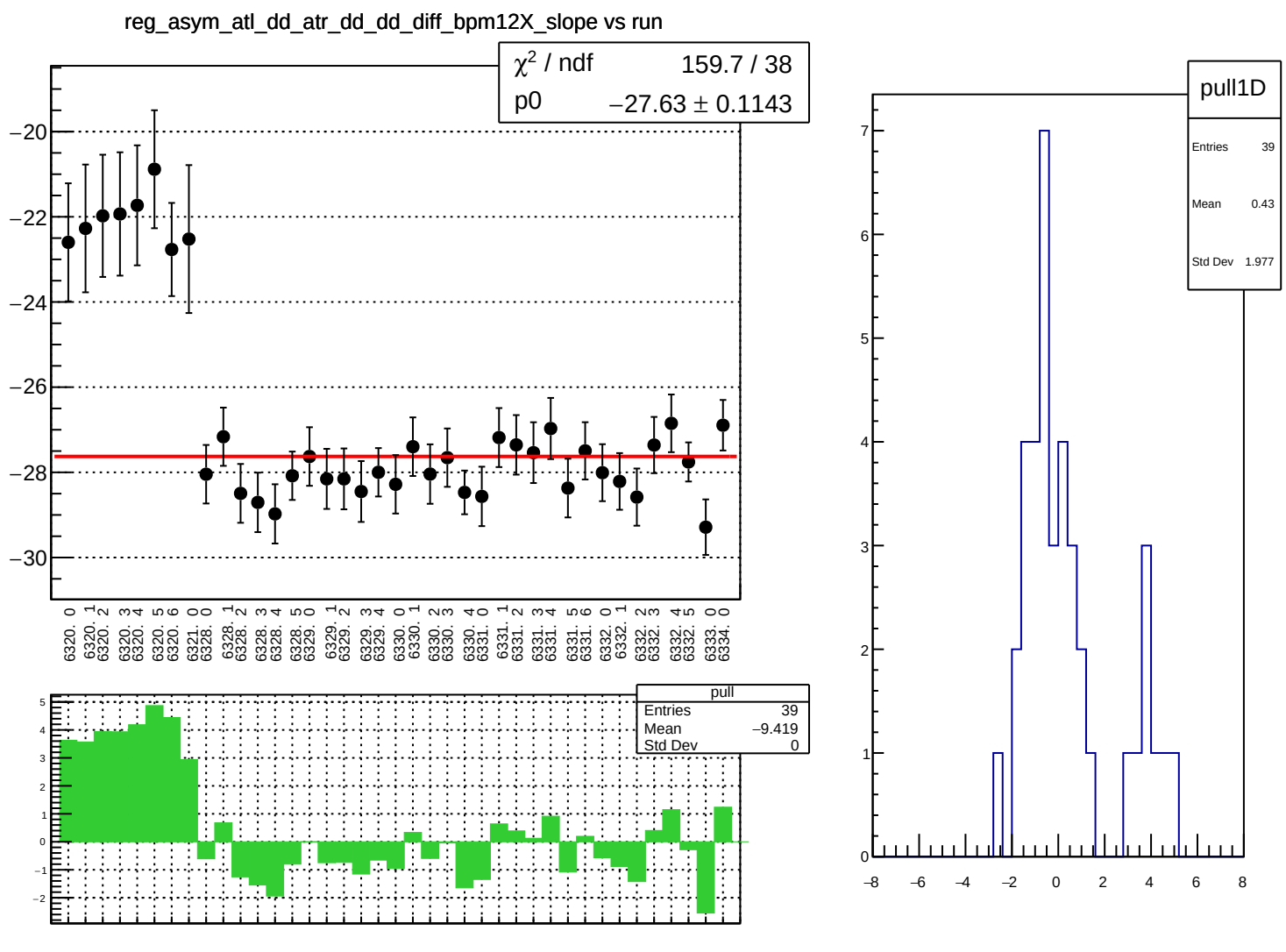

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 43.35 / 38
p0 −41.26 ± 2.922
pull
Entries 39
Mean 237.5
Std Dev 0

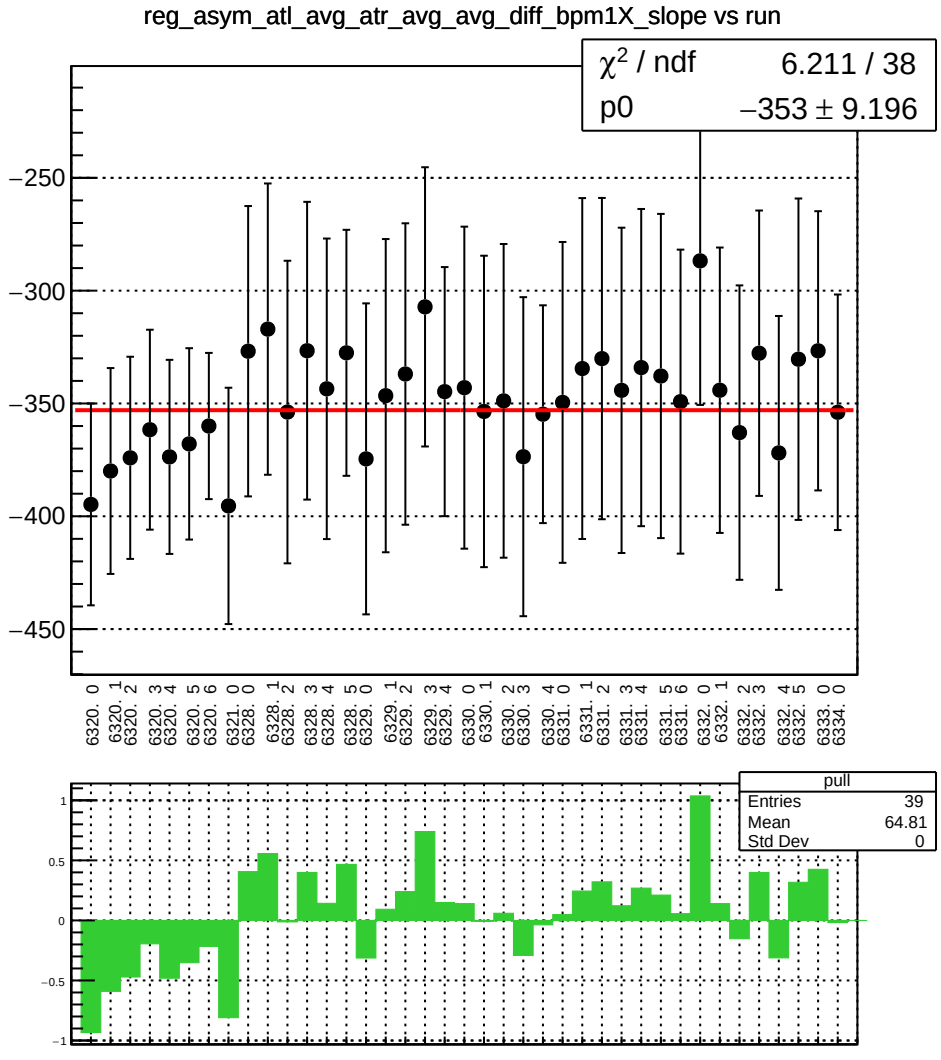

pull1D
Entries 39
Mean −0.01041
Std Dev 1.054

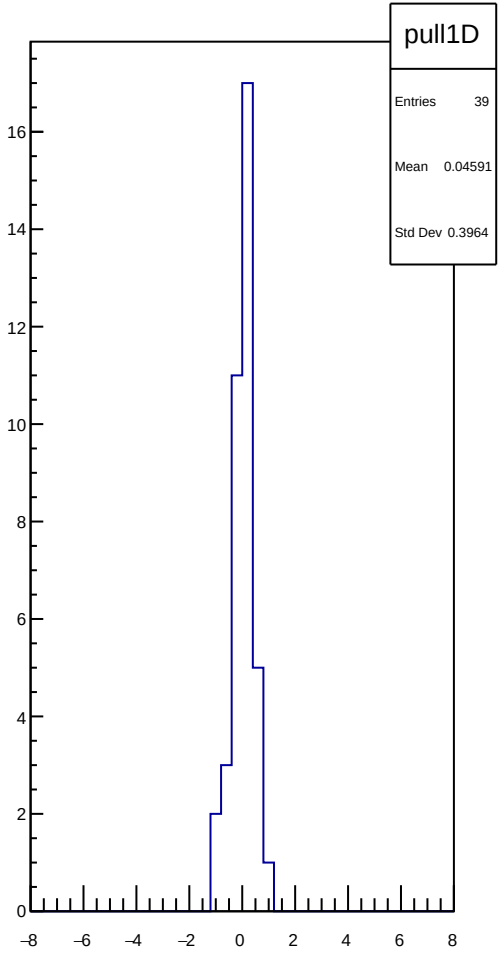

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.25 / 38
p0 −5.86 ± 2.137
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 273.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.008395
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

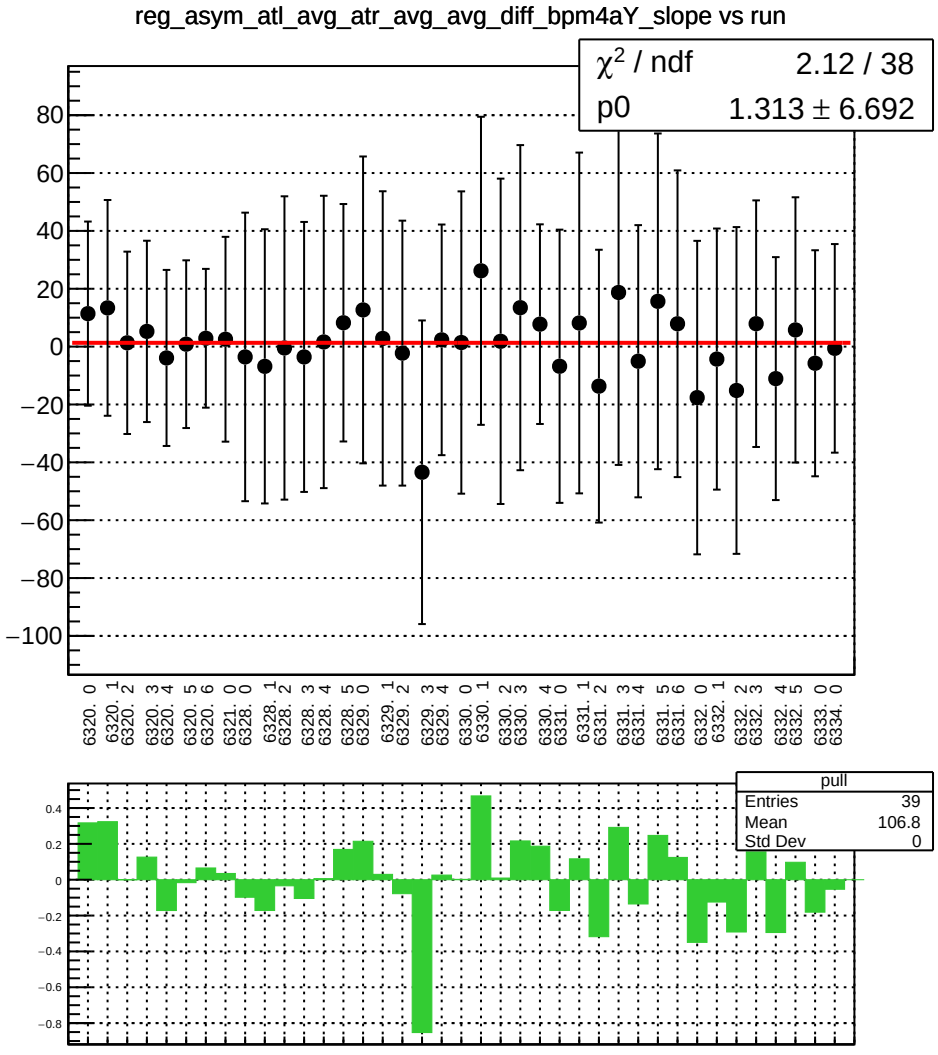

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.15 / 38
p0 114.7 ± 3.064
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 144.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.017
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

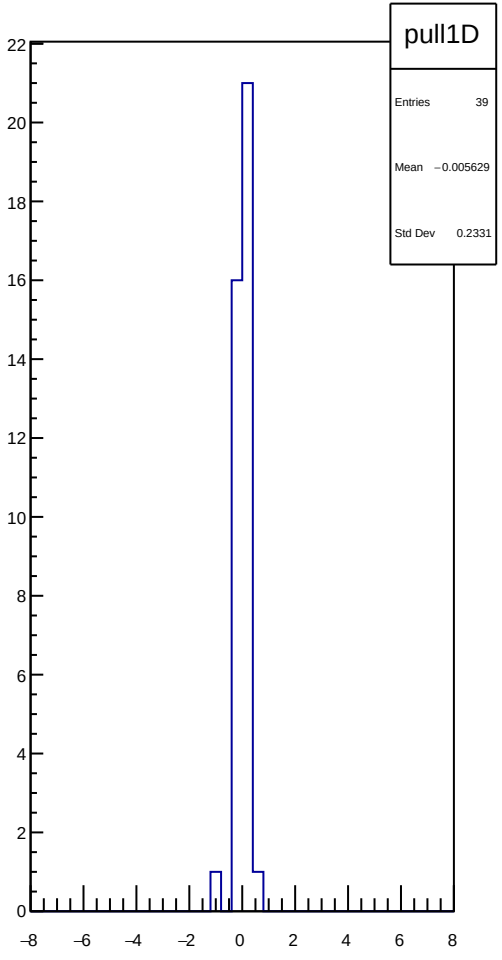

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.56 / 38
p0 21.54 ± 2.348
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −54.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.04366
Std Dev 1.296
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

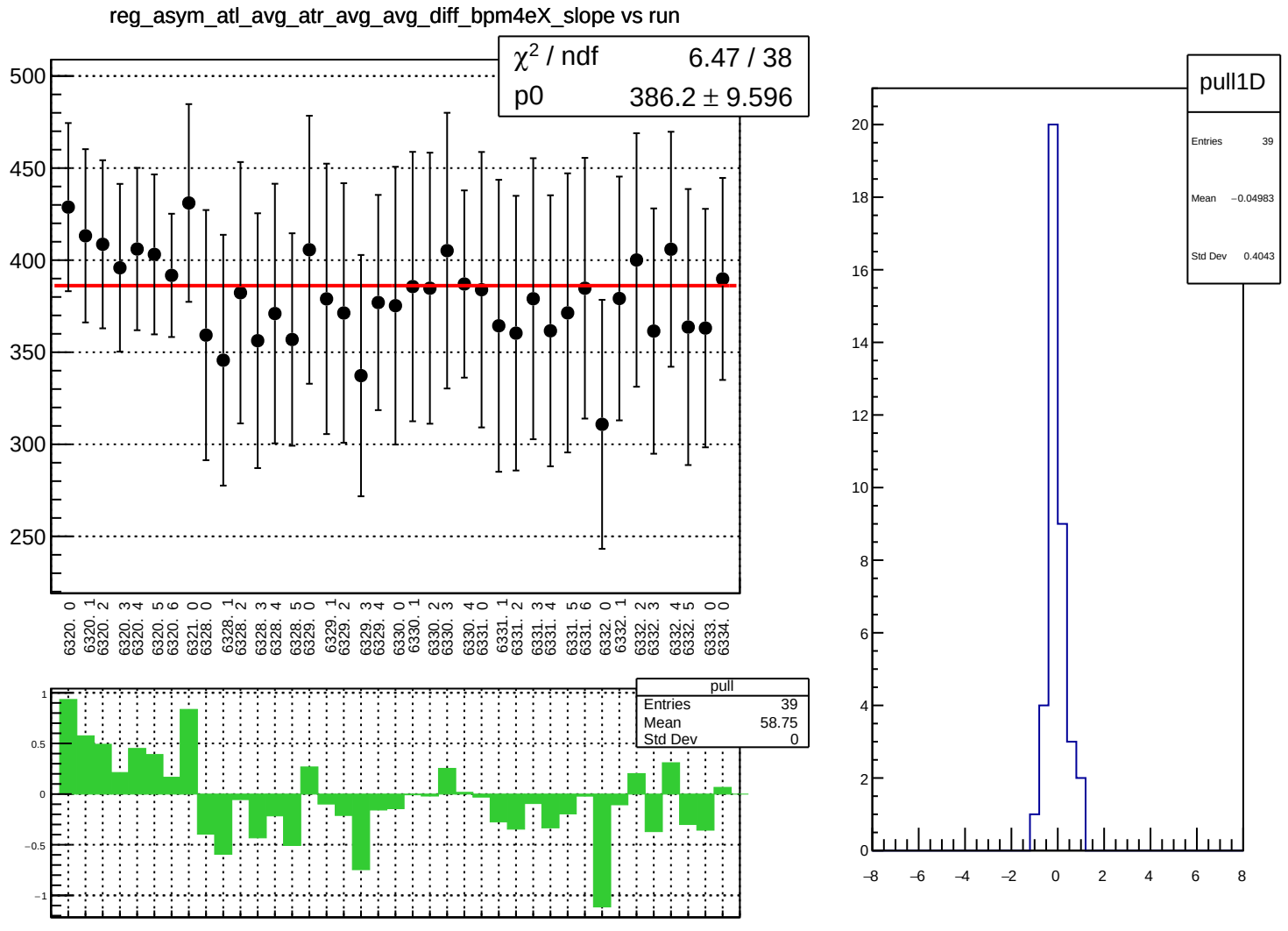

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 159.7 / 38
p0 −27.63 ± 0.1143
pull
Entries 39
Mean −9.419
Std Dev 0
pull1D
Entries 39
Mean 0.43
Std Dev 1.977

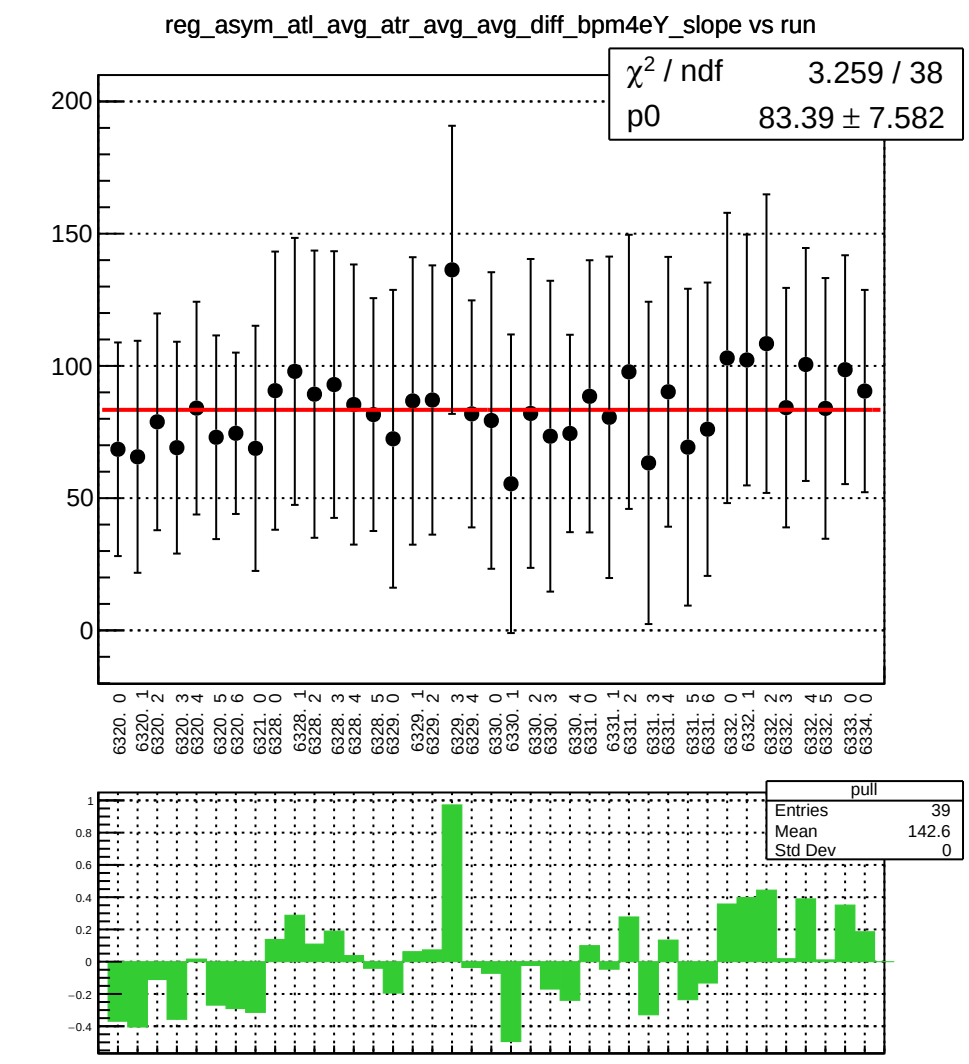

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 6.211 / 38
p0 −353 ± 9.196
−250
−300
−350
−400
−450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 64.81
Std Dev 0
1
0.5
0
−0.5
−1

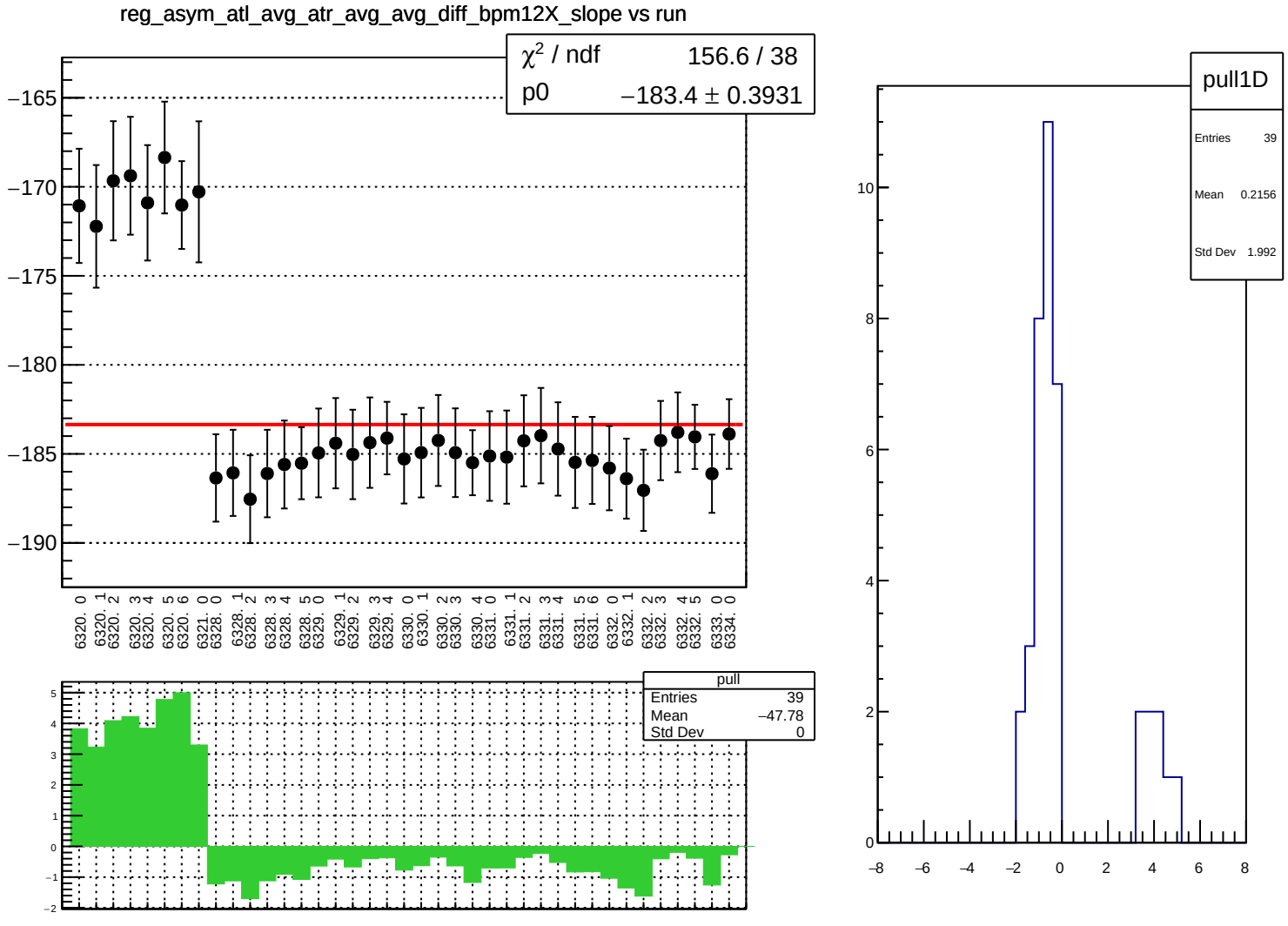

pull1D
Entries 39
Mean 0.04591
Std Dev 0.3964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

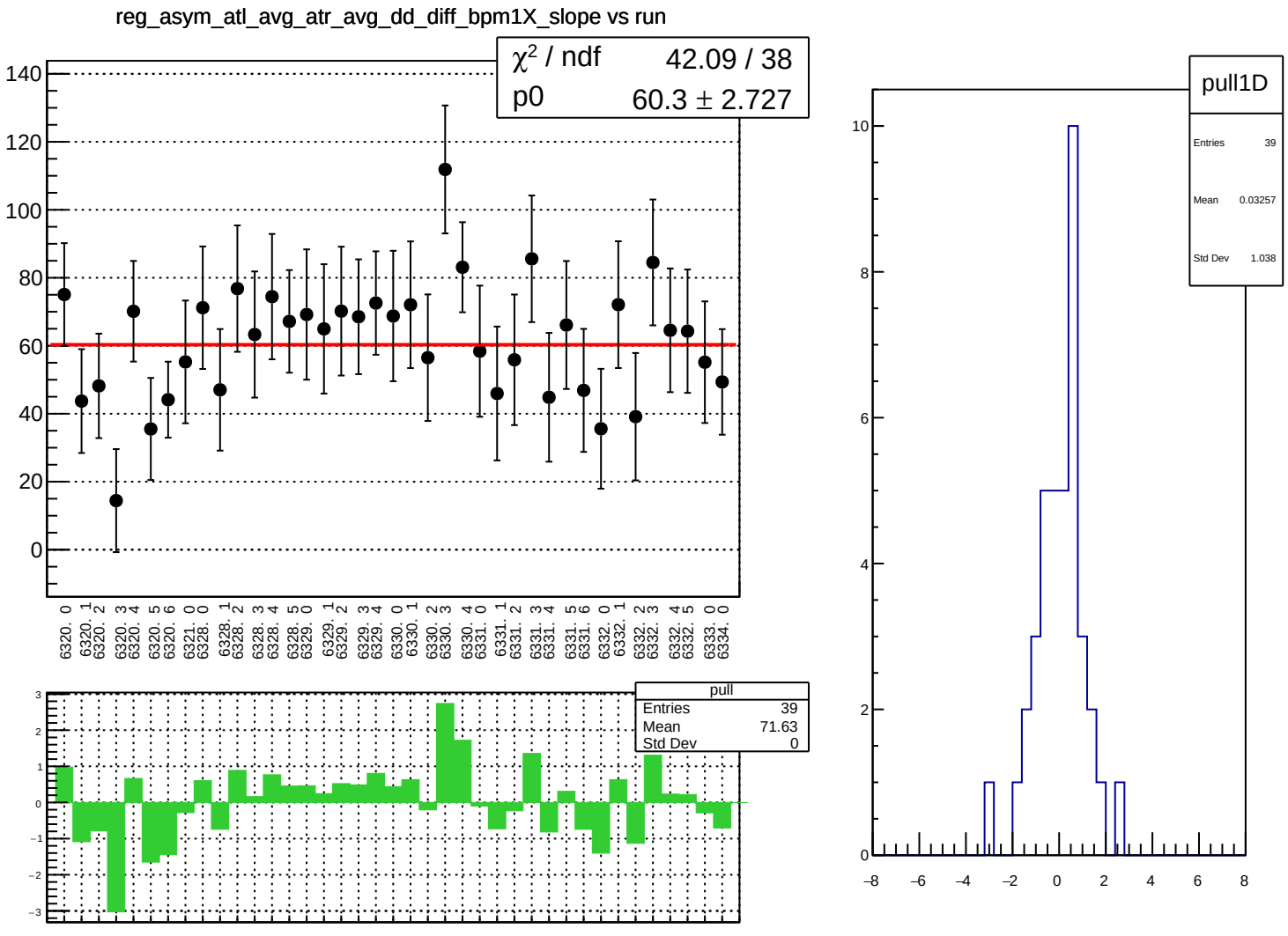

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.12 / 38
p0 1.313 ± 6.692
pull
Entries 39
Mean 106.8
Std Dev 0

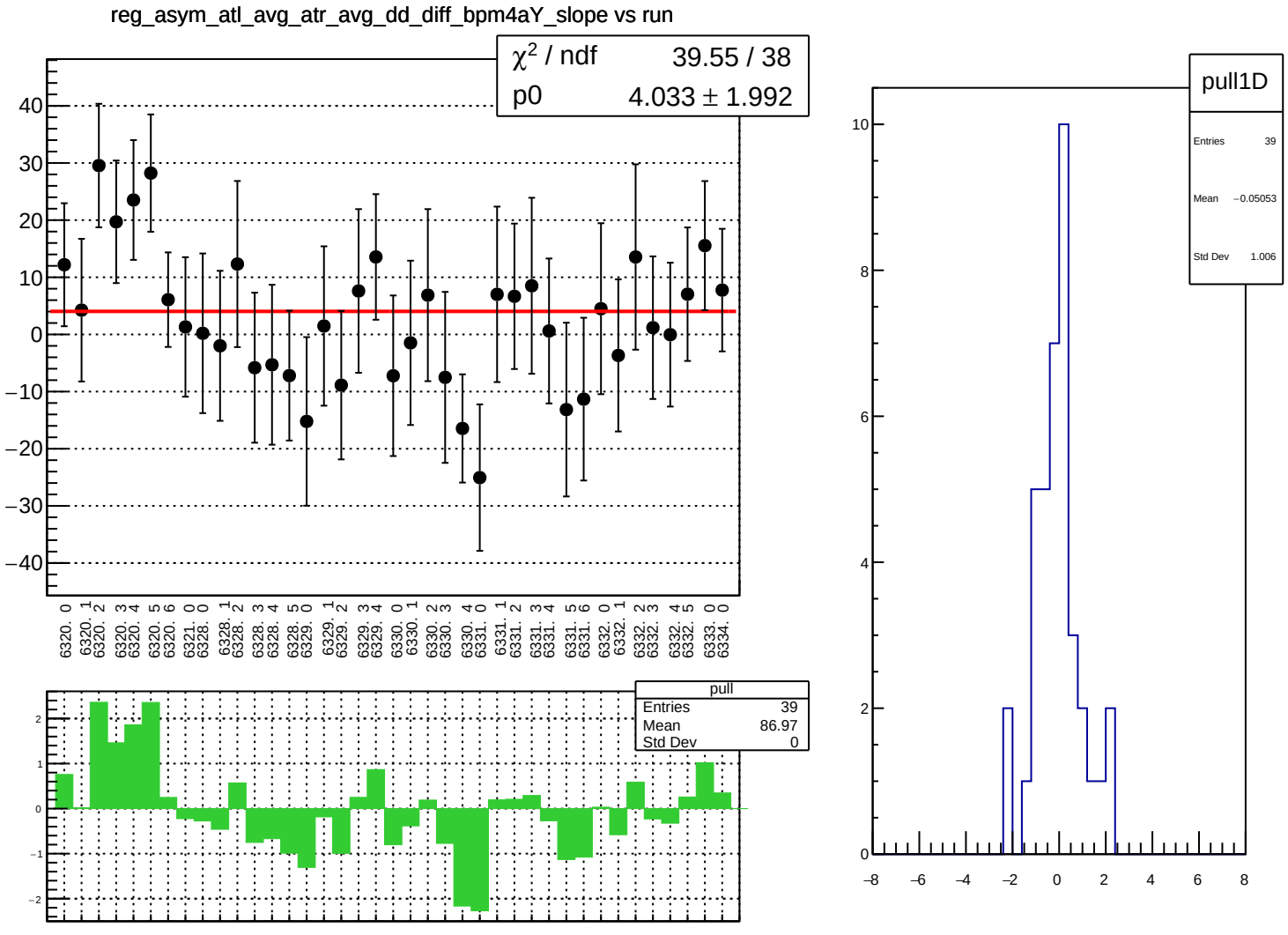

pull1D
Entries 39
Mean −0.005629
Std Dev 0.2331

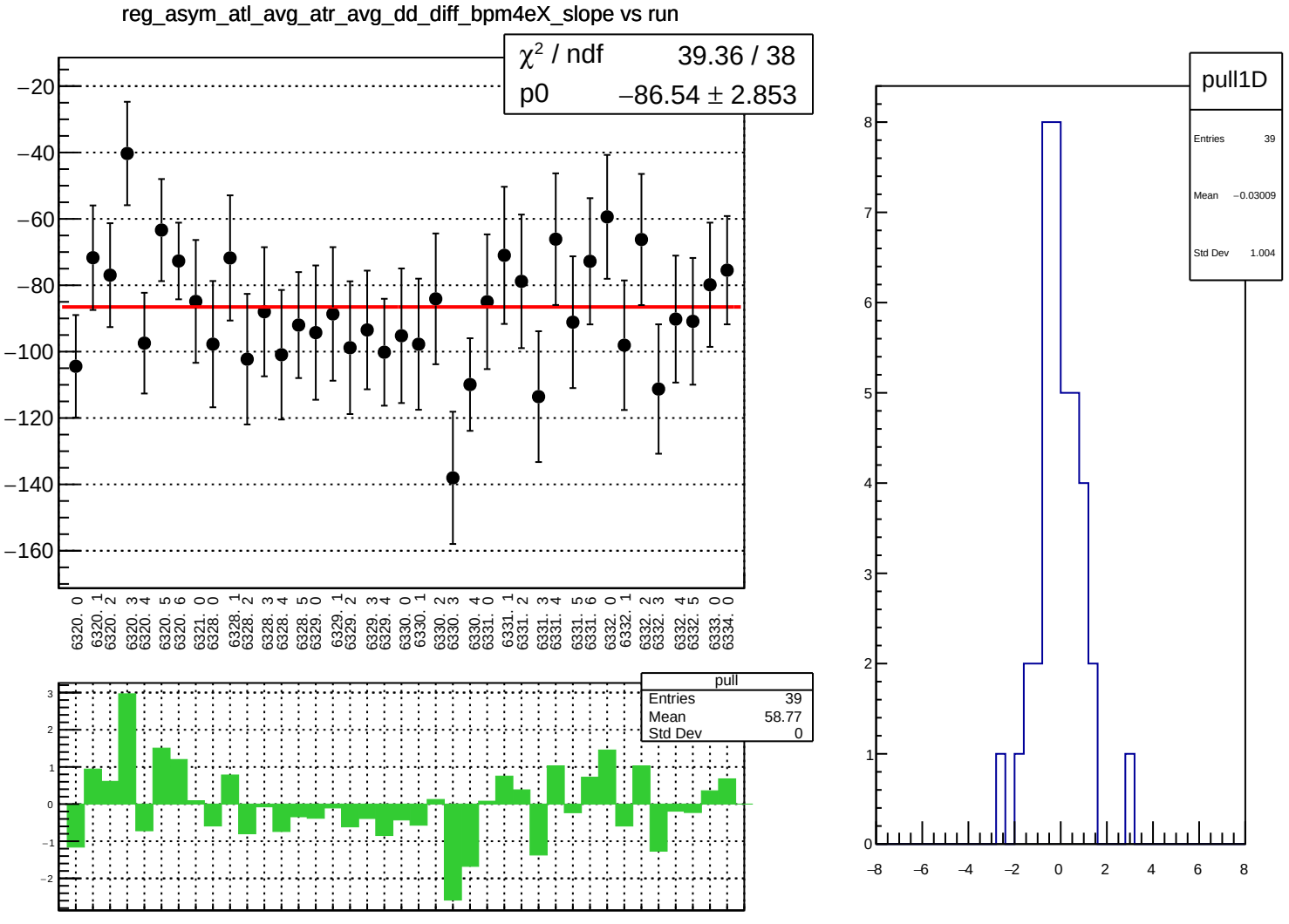

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.47 / 38
p0 386.2 ± 9.596
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.75
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.04983
Std Dev 0.4043
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

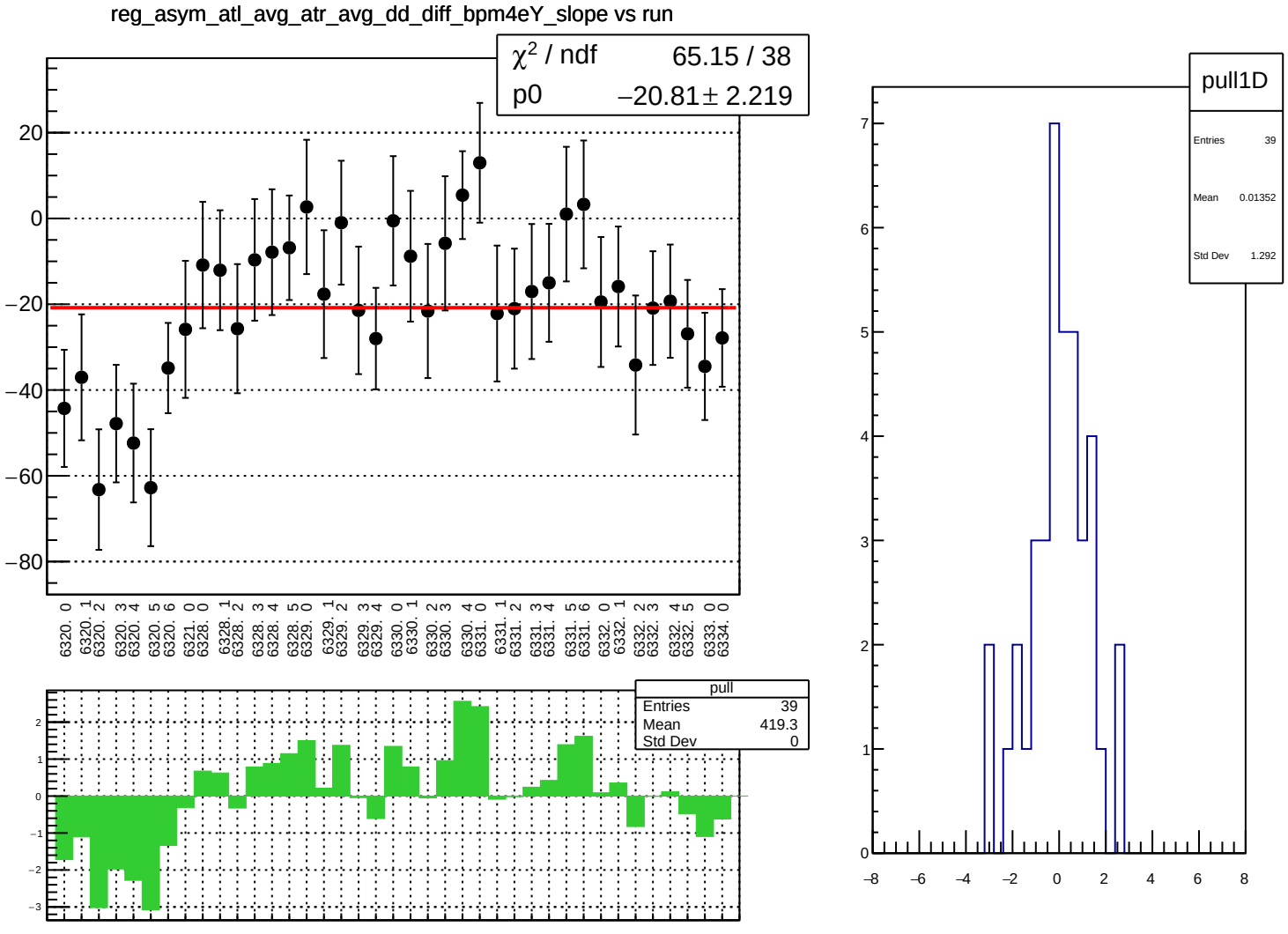

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.259 / 38
p0 83.39 ± 7.582
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 142.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.01079
Std Dev 0.2889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

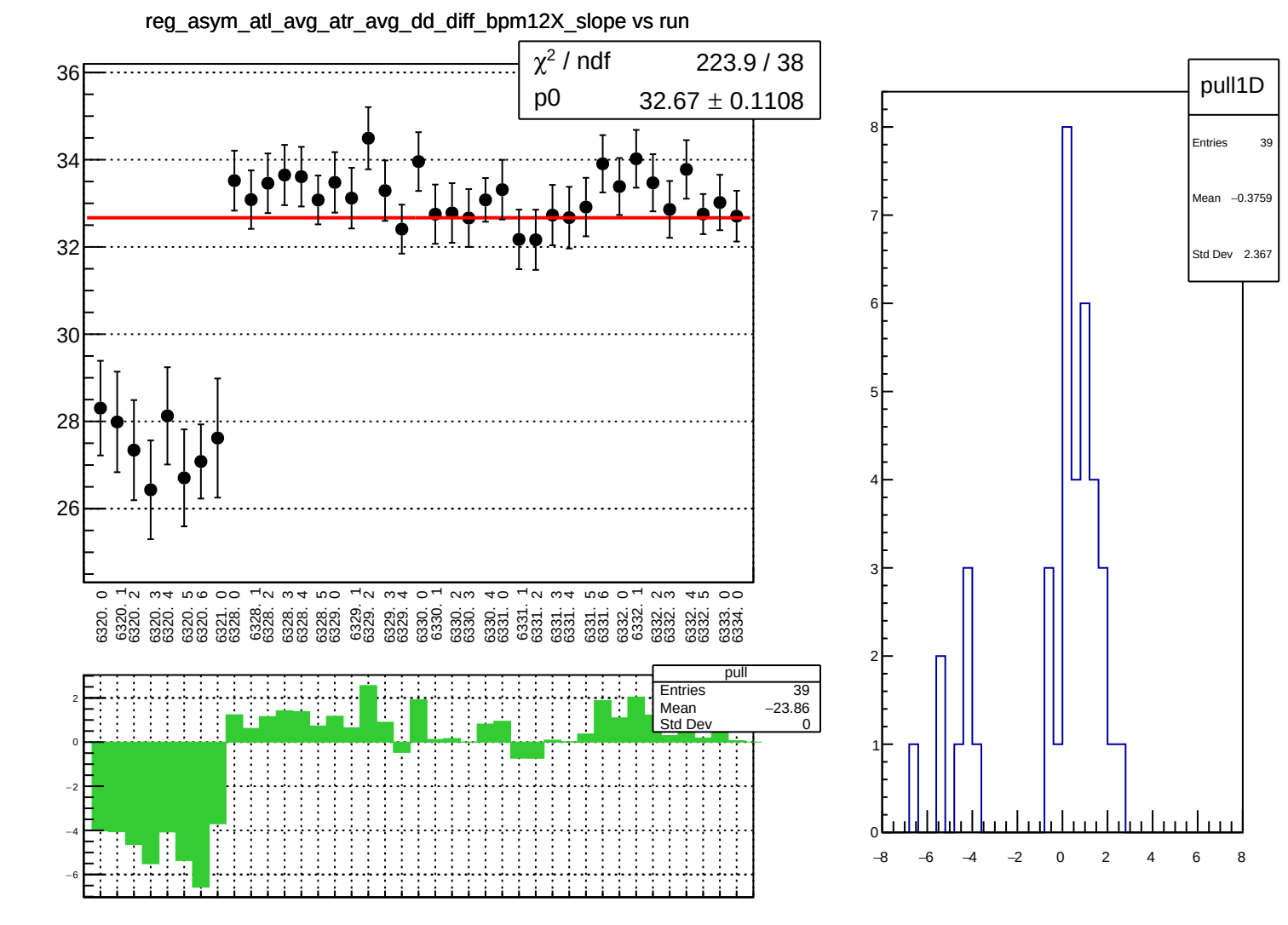

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 156.6 / 38
p0 −183.4 ± 0.3931
−165
−170
−175
−180
−185
−190
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.78
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.2156
Std Dev 1.992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

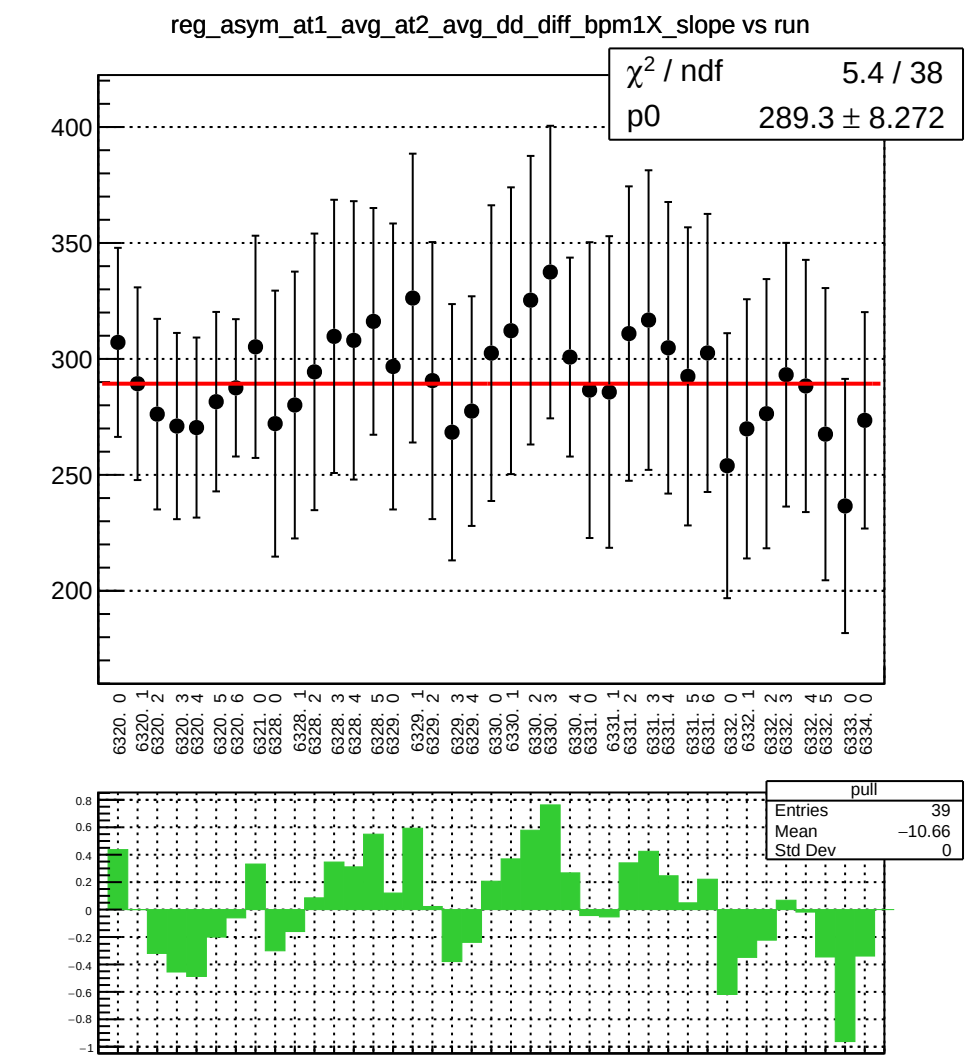

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 42.09 / 38
p0 60.3 ± 2.727
140
120
100
80
60
40
20
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 71.63
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.03257
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

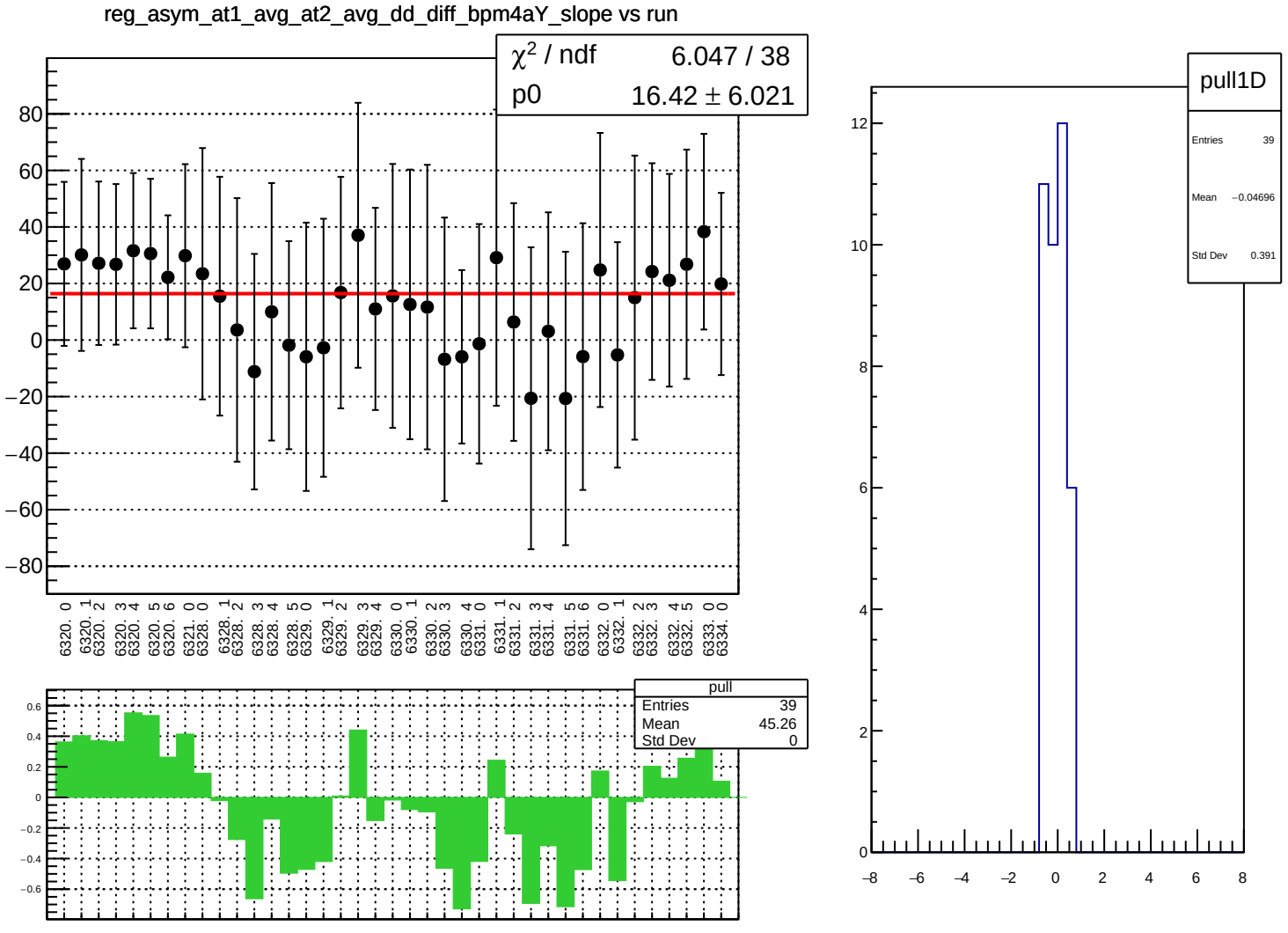

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.55 / 38
p0 4.033 ± 1.992
pull
Entries 39
Mean 86.97
Std Dev 0
pull1D
Entries 39
Mean −0.05053
Std Dev 1.006

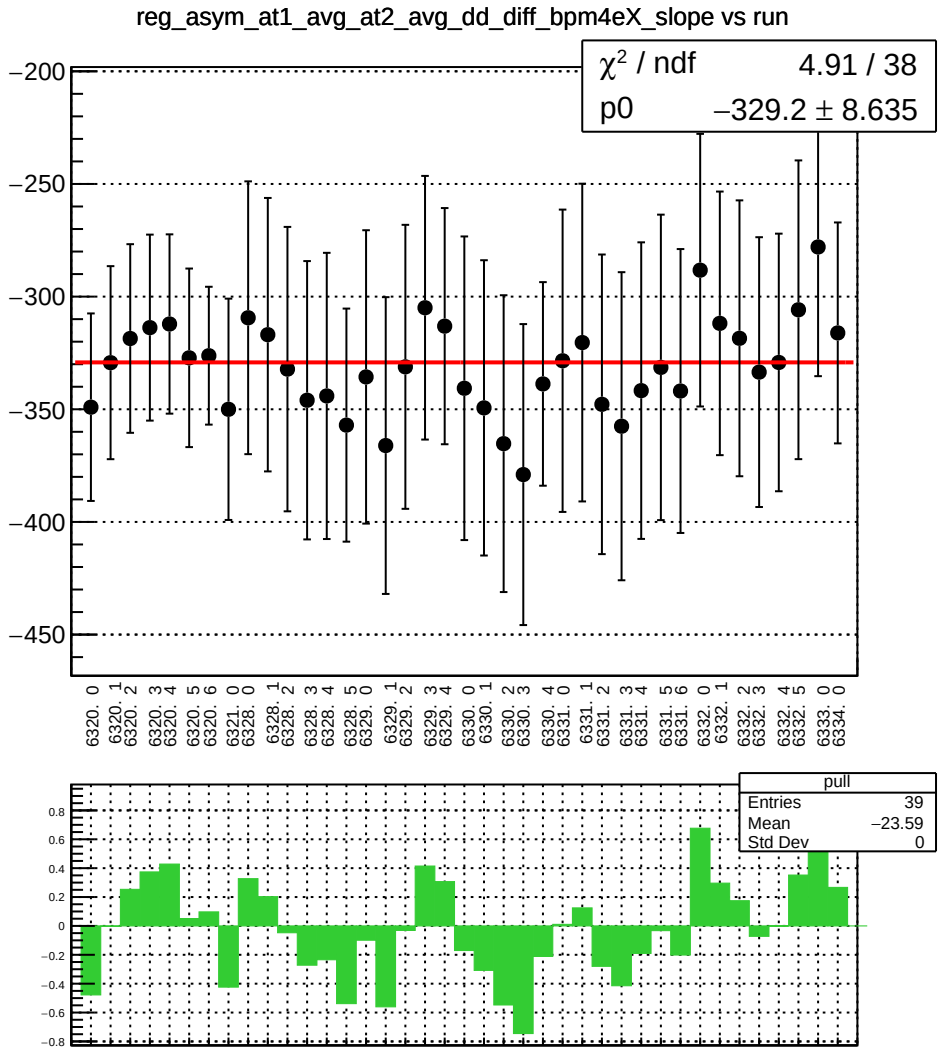

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.36 / 38
p0 −86.54 ± 2.853
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.77
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03009
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

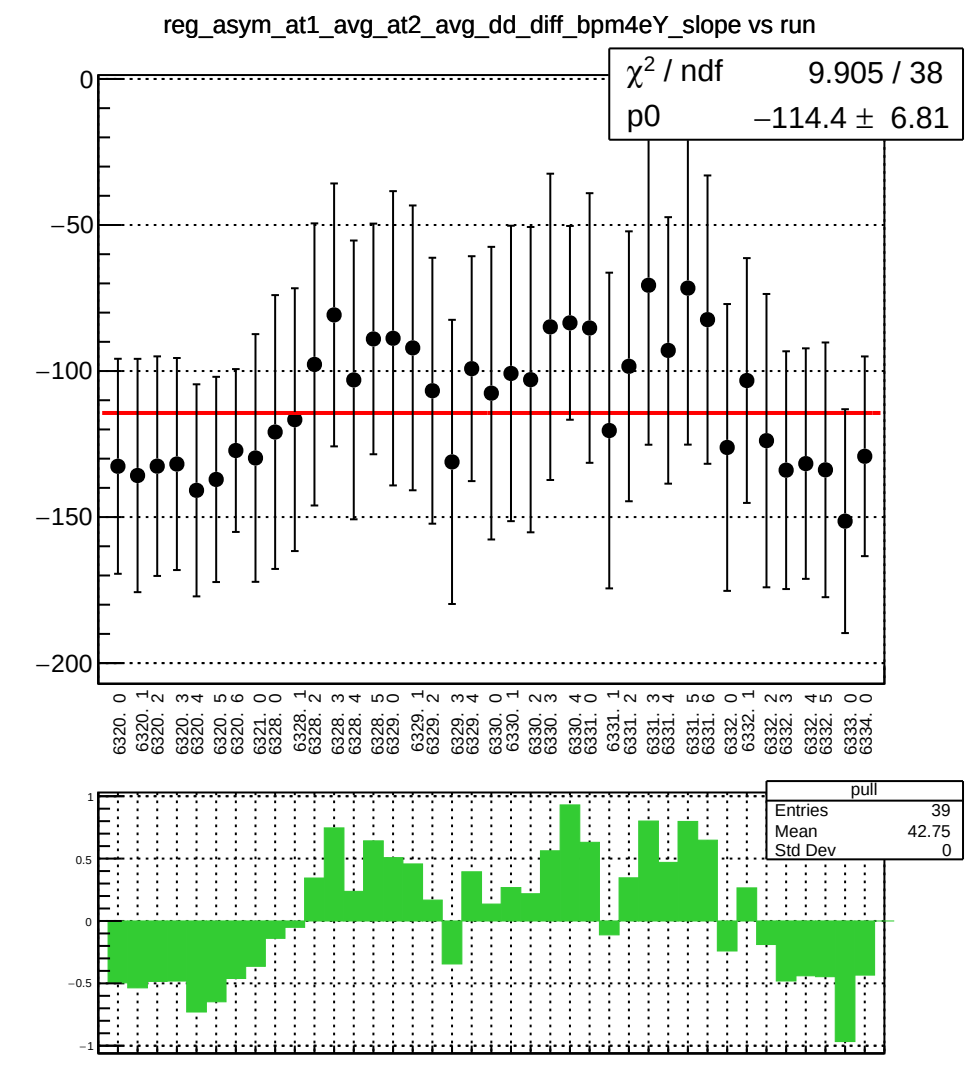

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.15 / 38
p0 −20.81± 2.219
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 419.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.01352
Std Dev 1.292
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

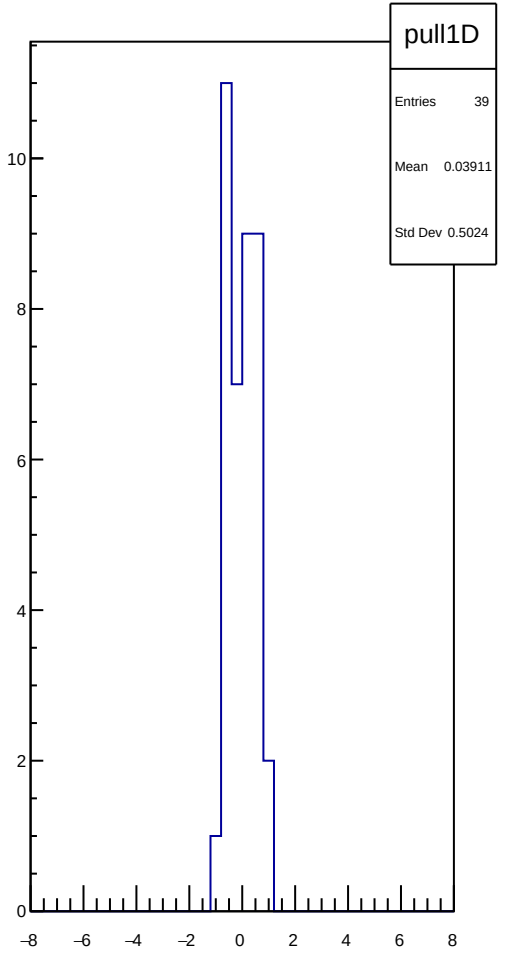

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 223.9 / 38
p0 32.67 ± 0.1108
36
34
32
30
28
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.86
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.3759
Std Dev 2.367
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

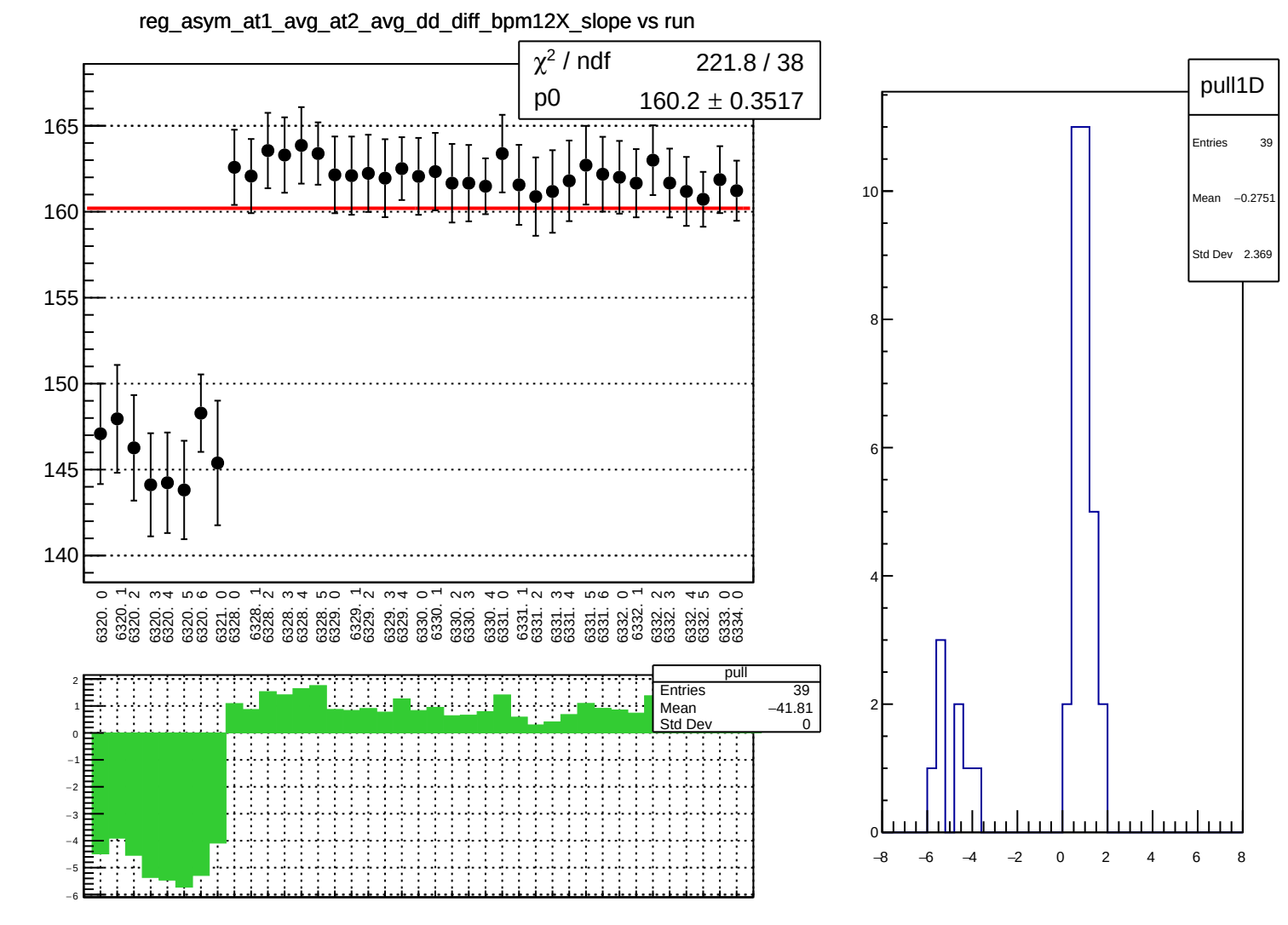

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.4 / 38
p0 289.3 ± 8.272
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.66
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.02
Std Dev 0.3716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

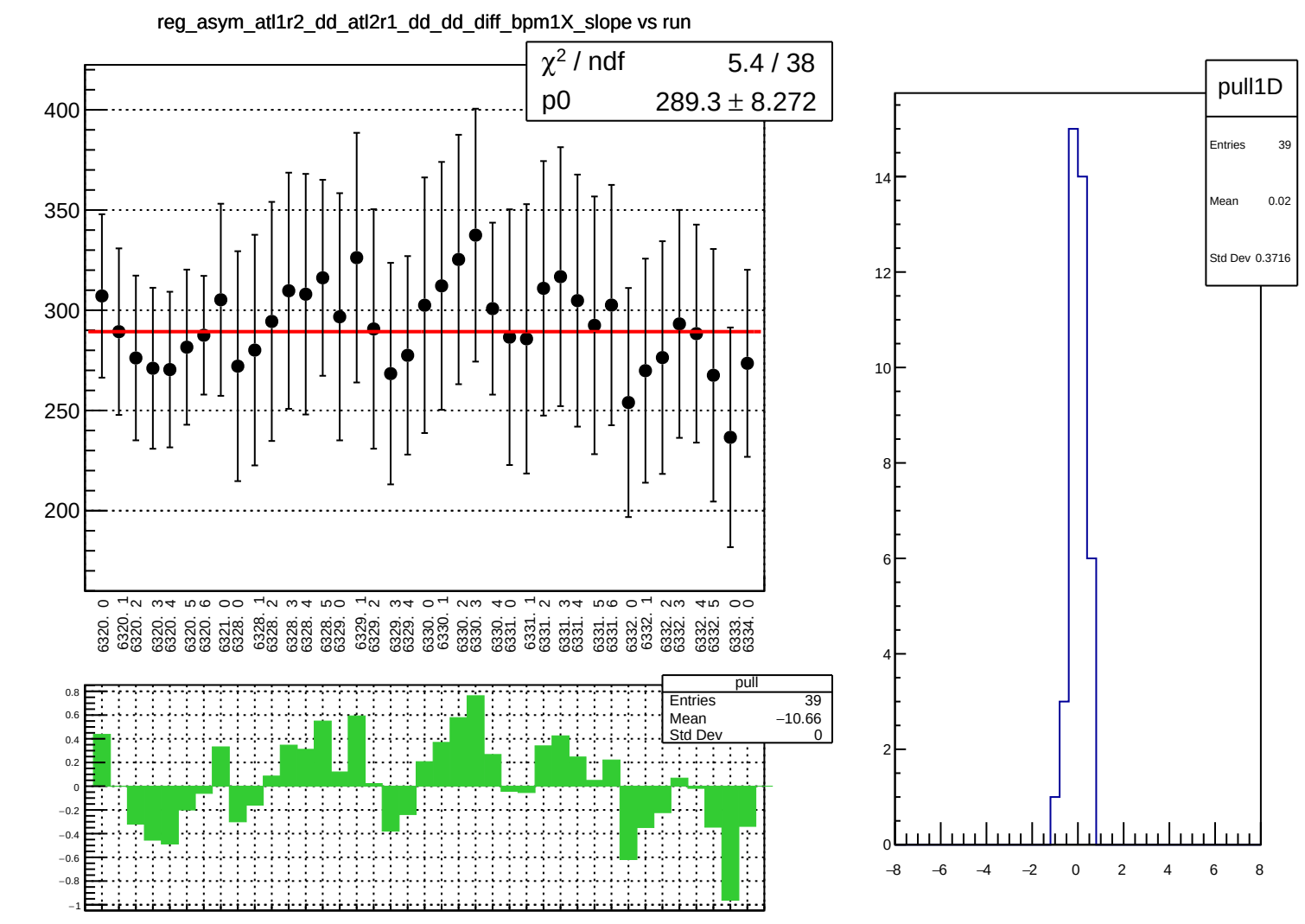

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.047 / 38
p0 16.42 ± 6.021
pull
Entries 39
Mean 45.26
Std Dev 0
pull1D
Entries 39
Mean −0.04696
Std Dev 0.391

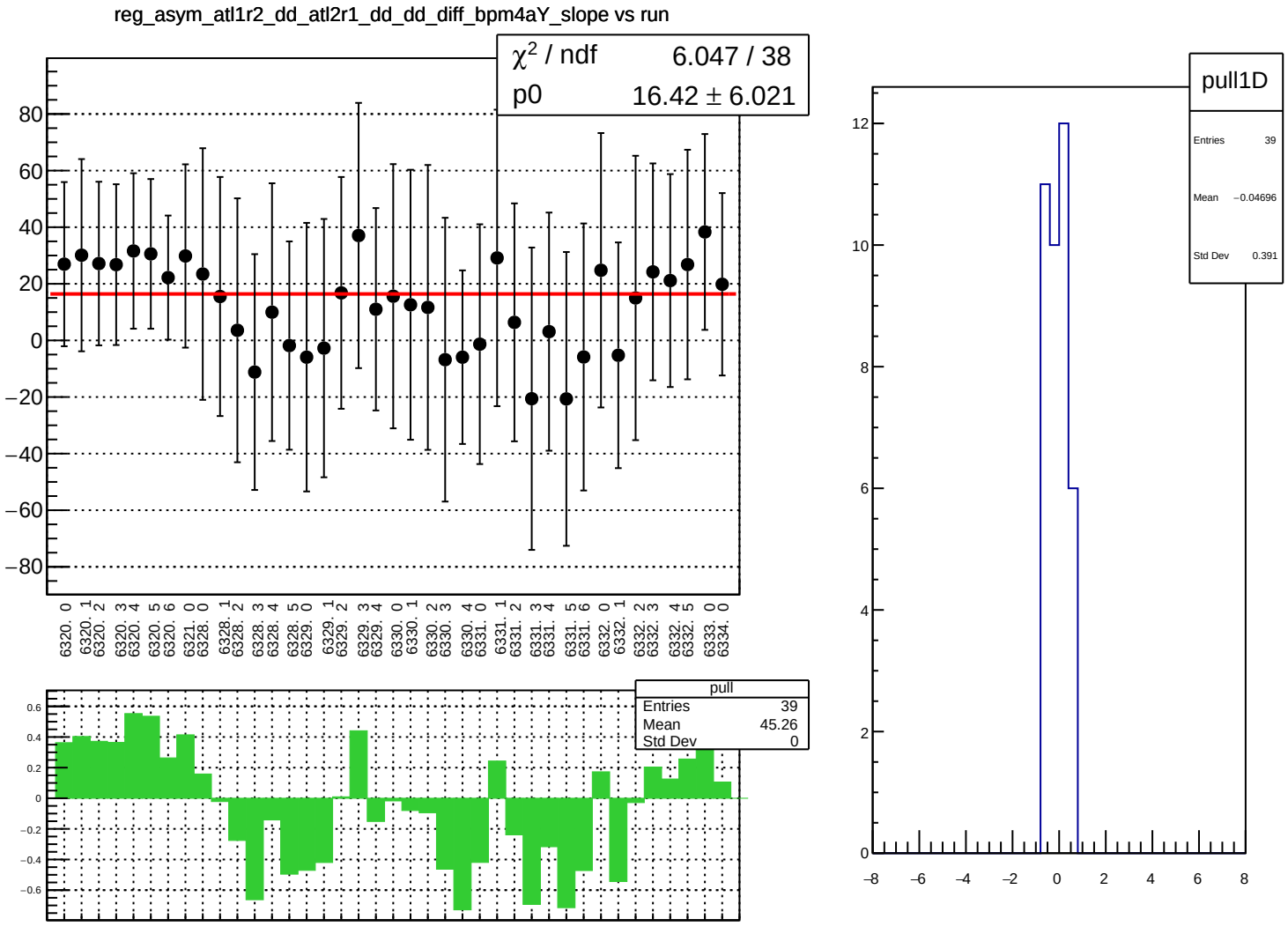

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.91 / 38
p0 −329.2 ± 8.635
pull
Entries 39
Mean −23.59
Std Dev 0
pull1D
Entries 39
Mean −0.01566
Std Dev 0.3545

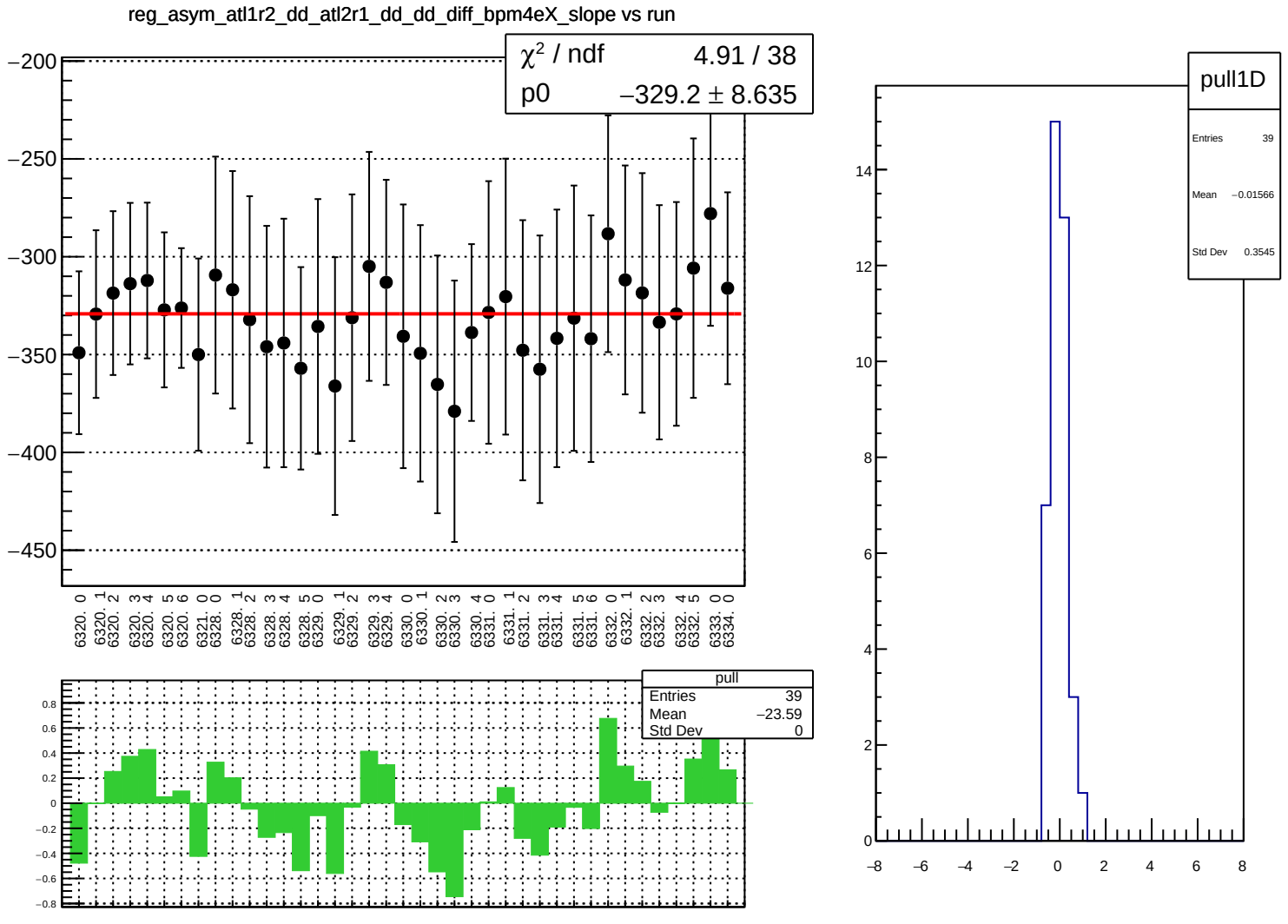

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.905 / 38
p0 −114.4 ± 6.81
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.75
Std Dev 0
1
0.5
0
−0.5
−1

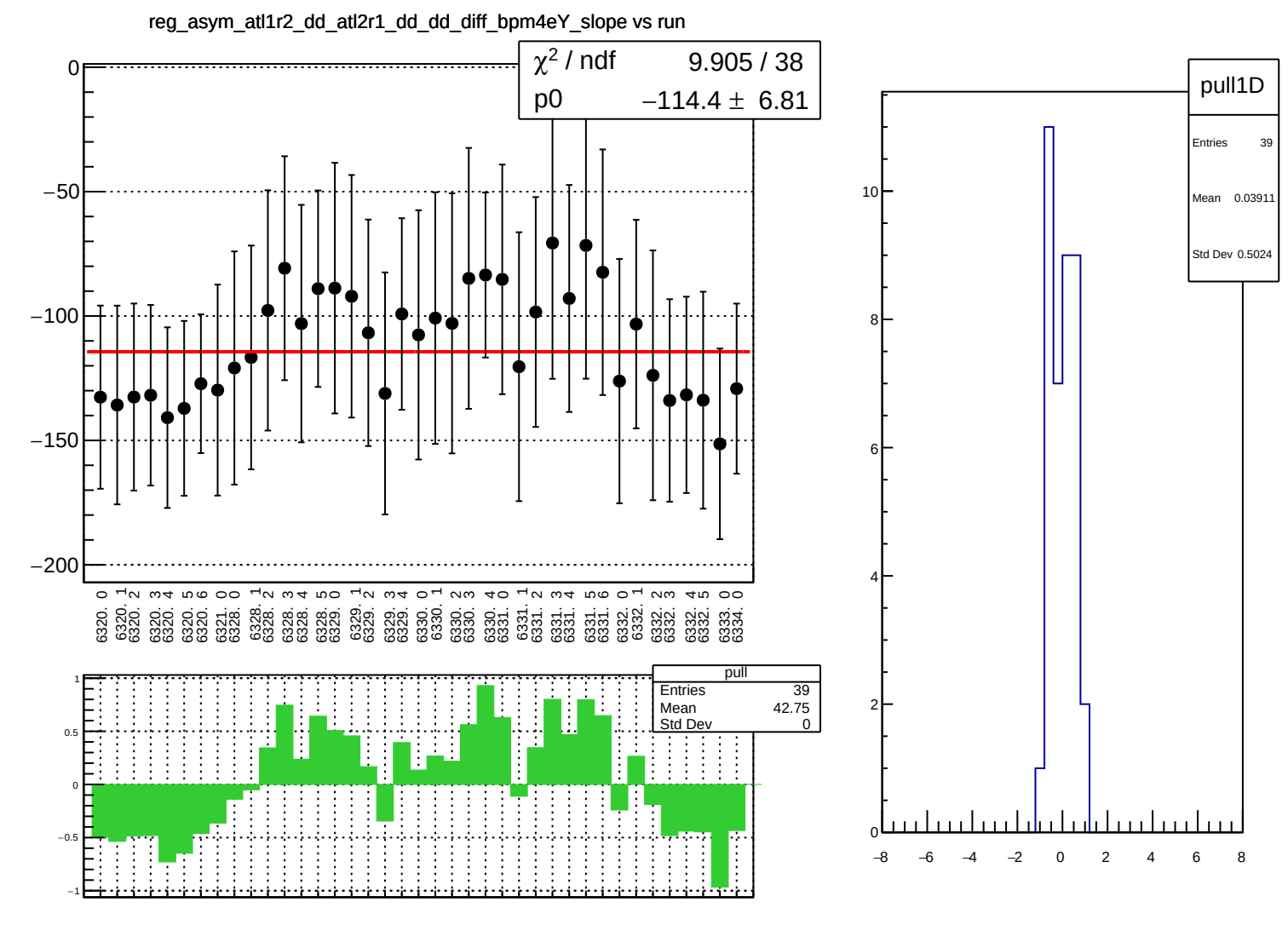

pull1D
Entries 39
Mean 0.03911
Std Dev 0.5024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

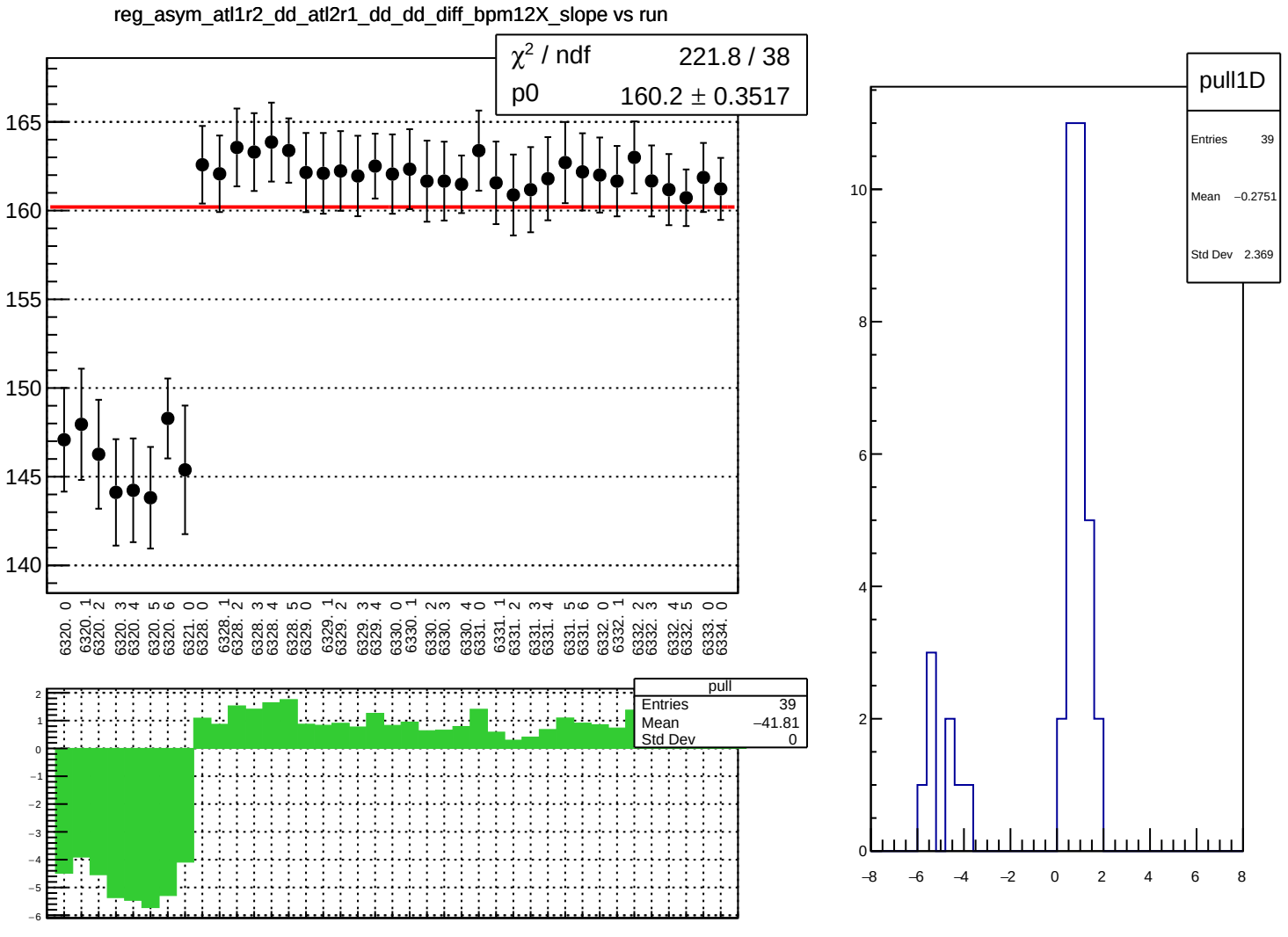

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 221.8 / 38
p0 160.2 ± 0.3517
pull
Entries 39
Mean −41.81
Std Dev 0
pull1D
Entries 39
Mean −0.2751
Std Dev 2.369

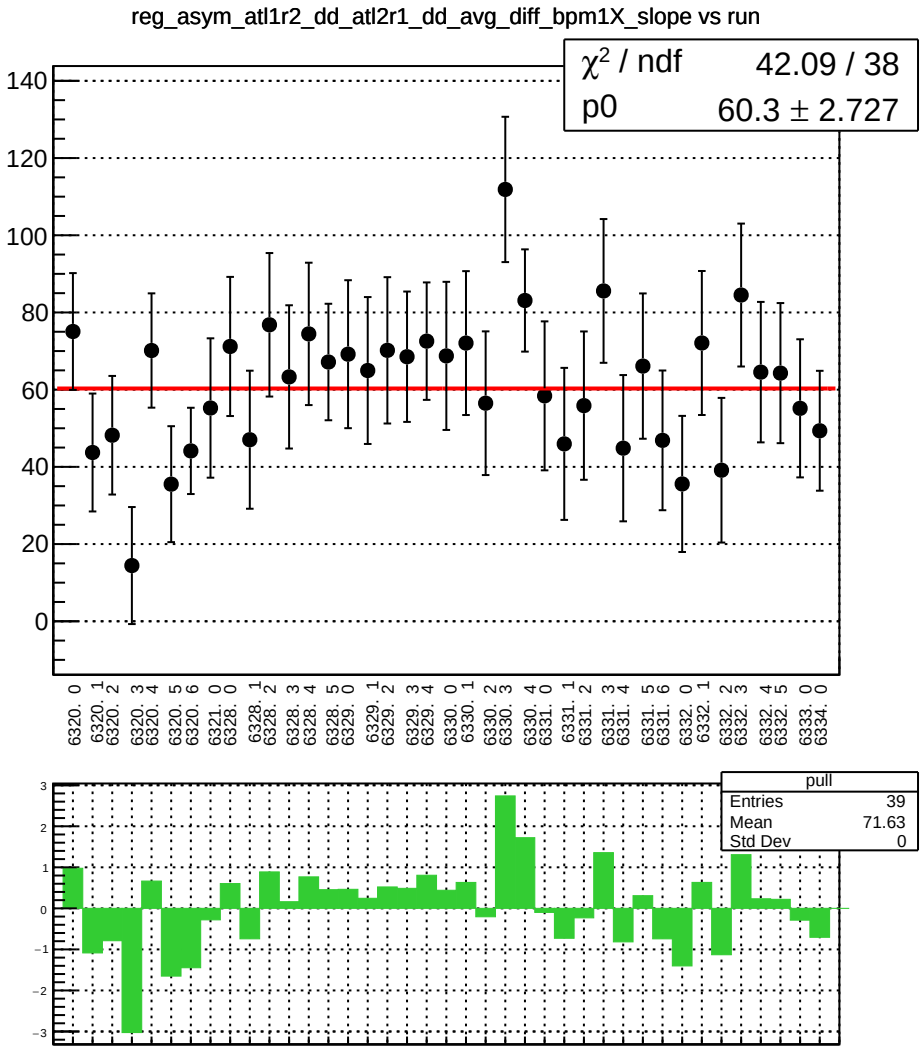

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 5.4 / 38
p0 289.3 ± 8.272
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.66
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.02
Std Dev 0.3716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

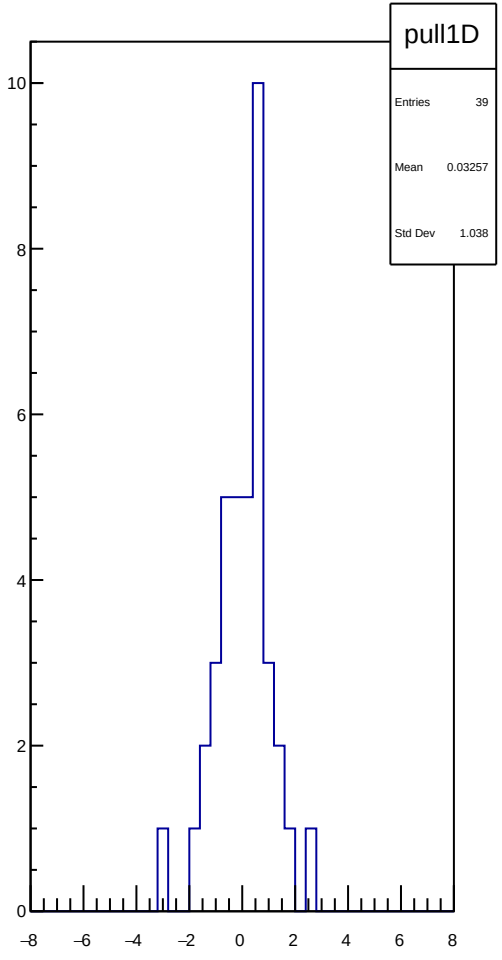

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.047 / 38
p0 16.42 ± 6.021
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.26
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.04696
Std Dev 0.391
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

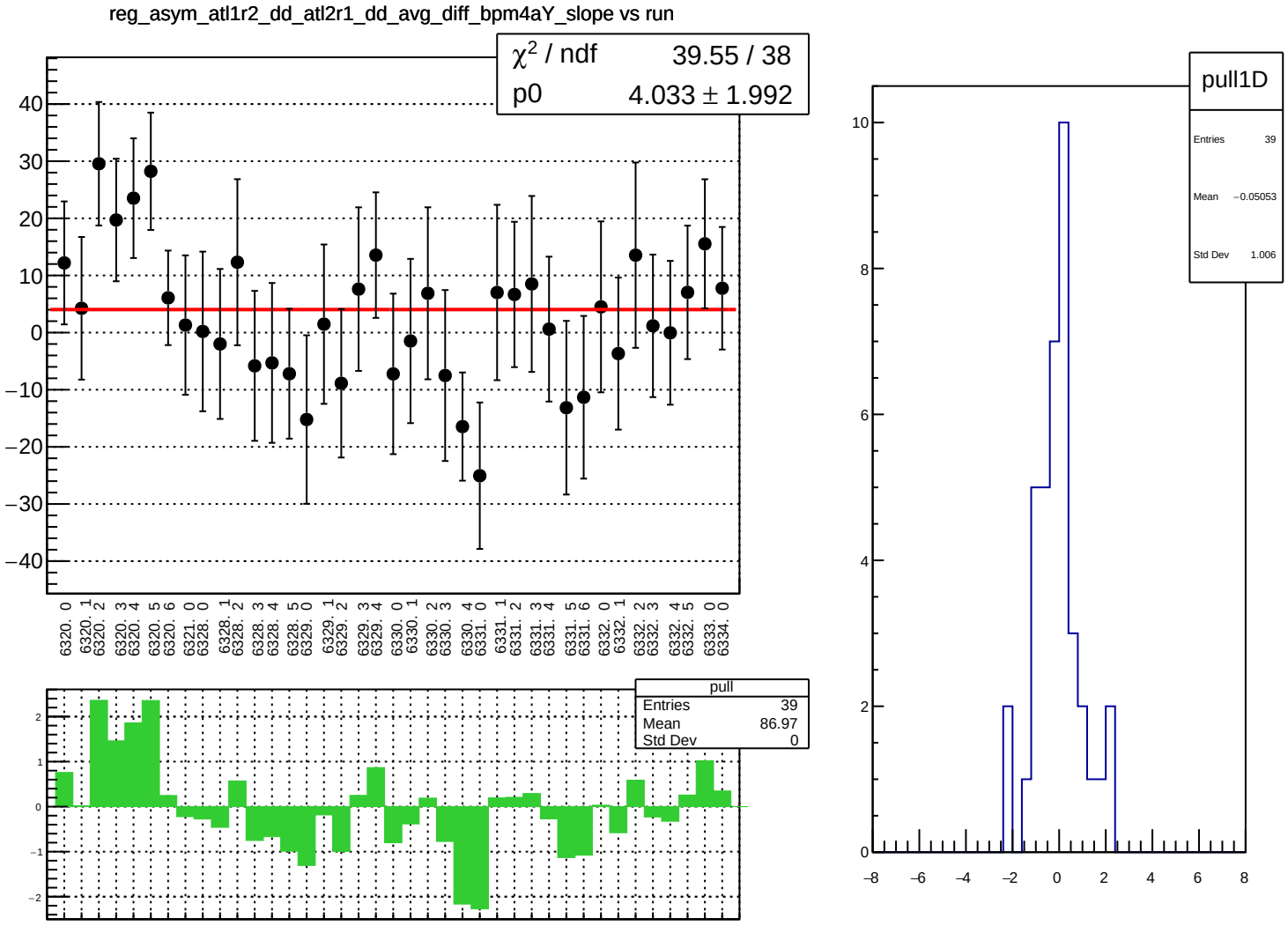

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.91 / 38
p0 −329.2 ± 8.635
−200
−250
−300
−350
−400
−450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.59
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.01566
Std Dev 0.3545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

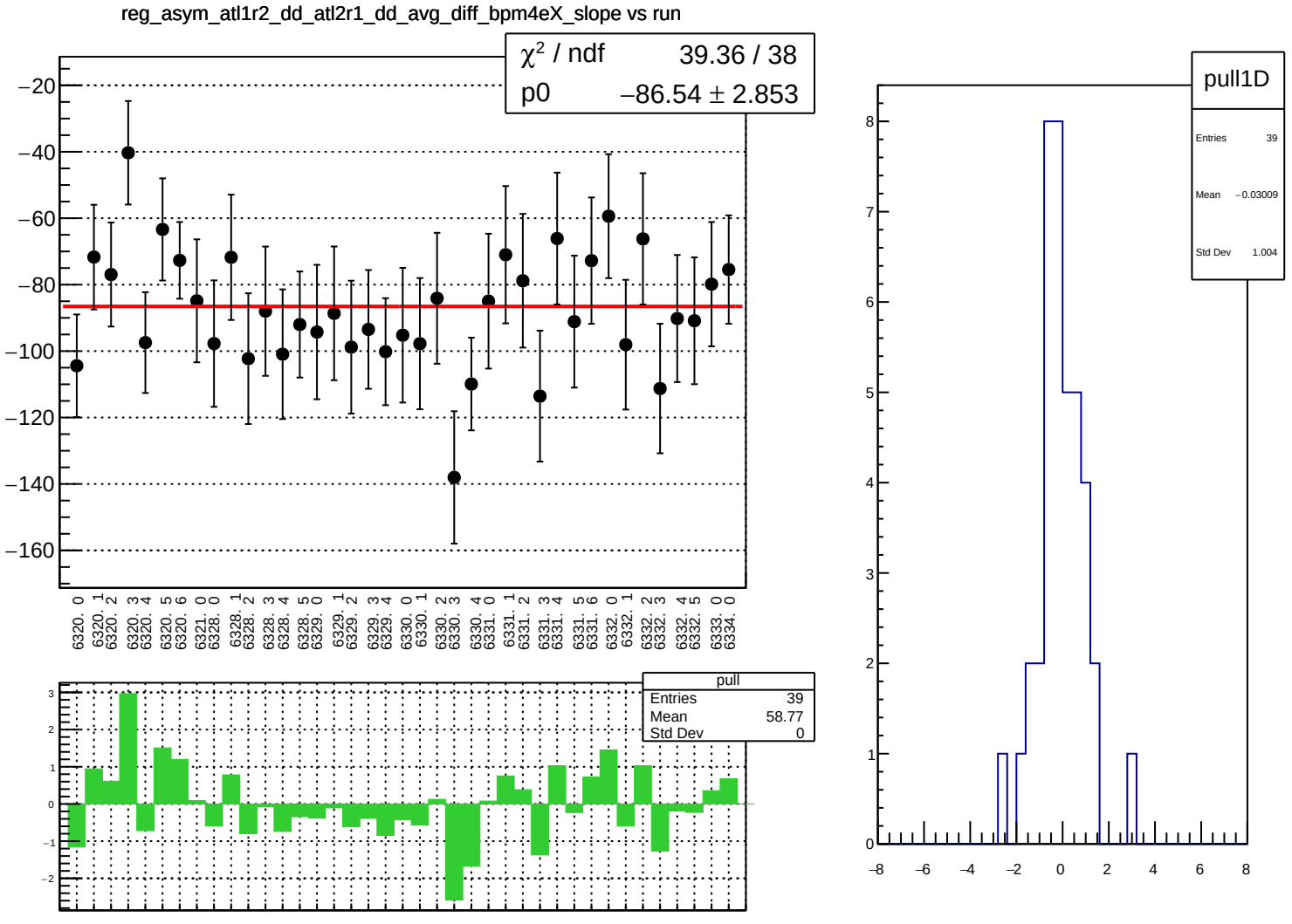

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.905 / 38
p0 −114.4 ± 6.81
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 42.75
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.03911
Std Dev 0.5024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

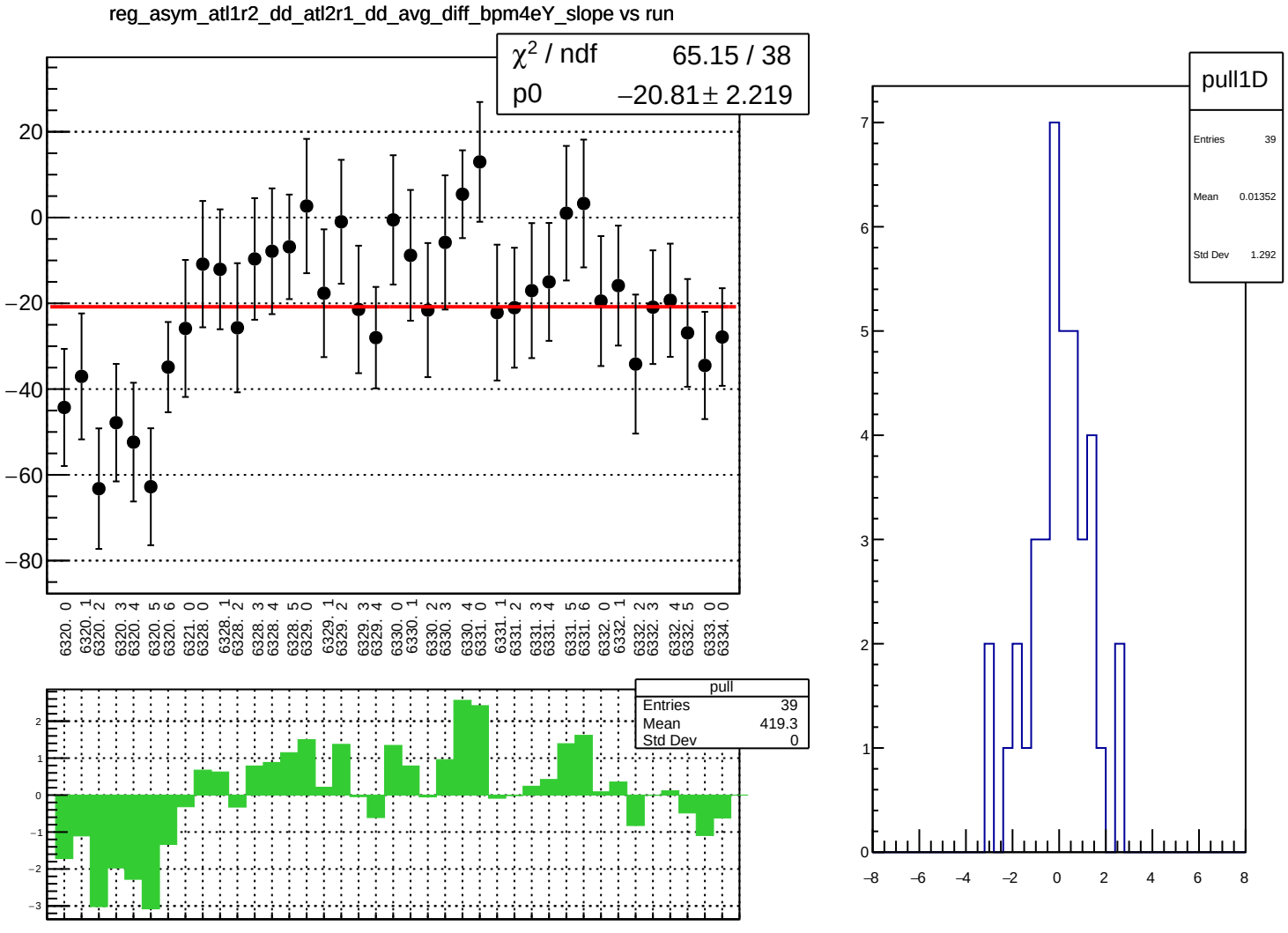

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 221.8 / 38
p0 160.2 ± 0.3517
pull
Entries 39
Mean −41.81
Std Dev 0
pull1D
Entries 39
Mean −0.2751
Std Dev 2.369

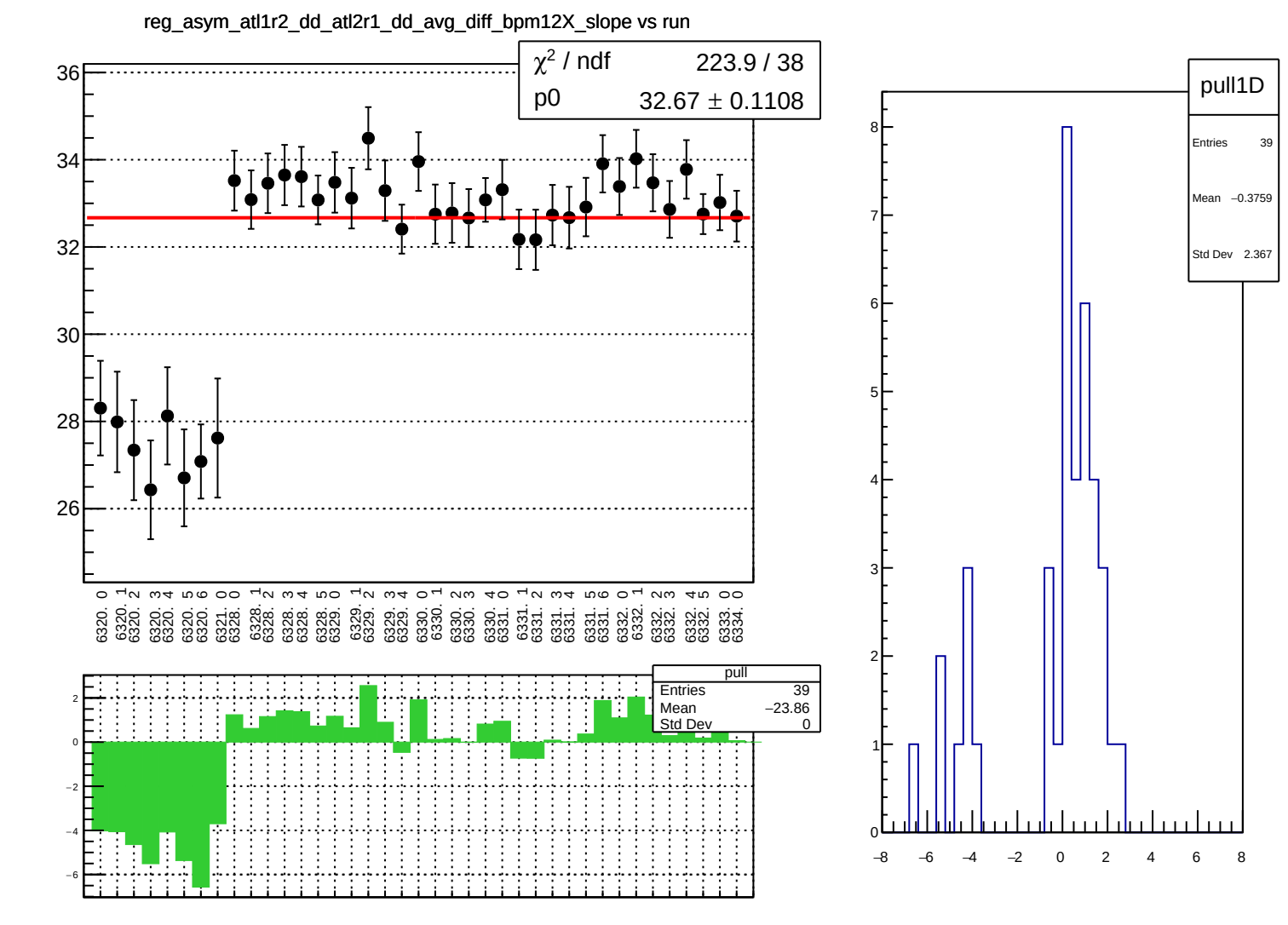

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 42.09 / 38
p0 60.3 ± 2.727
140
120
100
80
60
40
20
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 71.63
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 39
Mean 0.03257
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.55 / 38
p0 4.033 ± 1.992
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 86.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05053
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.36 / 38
p0 −86.54 ± 2.853
pull
Entries 39
Mean 58.77
Std Dev 0
pull1D
Entries 39
Mean −0.03009
Std Dev 1.004


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.15 / 38
p0 −20.81± 2.219
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 419.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.01352
Std Dev 1.292
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 223.9 / 38
p0 32.67 ± 0.1108
36
34
32
30
28
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
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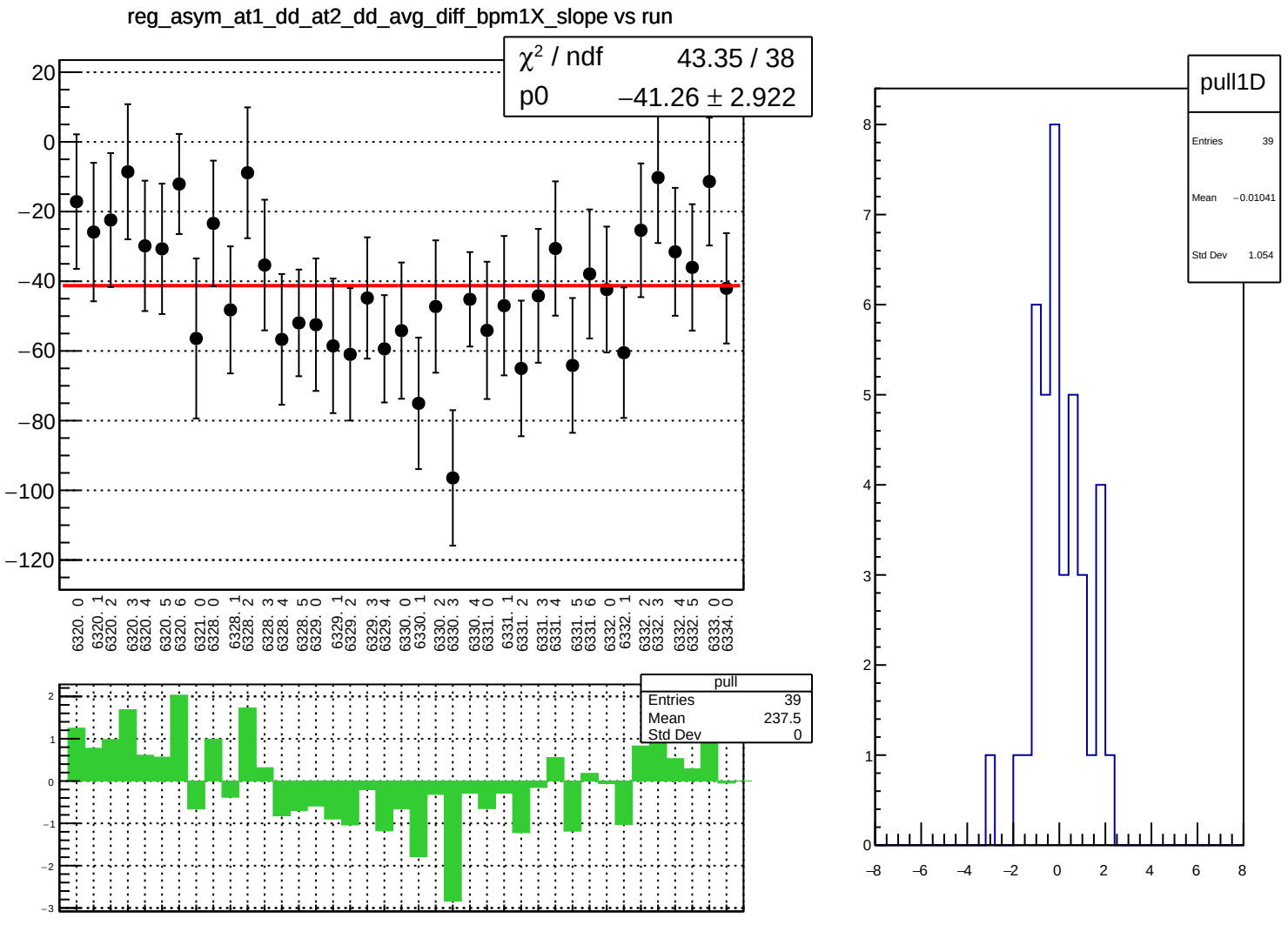
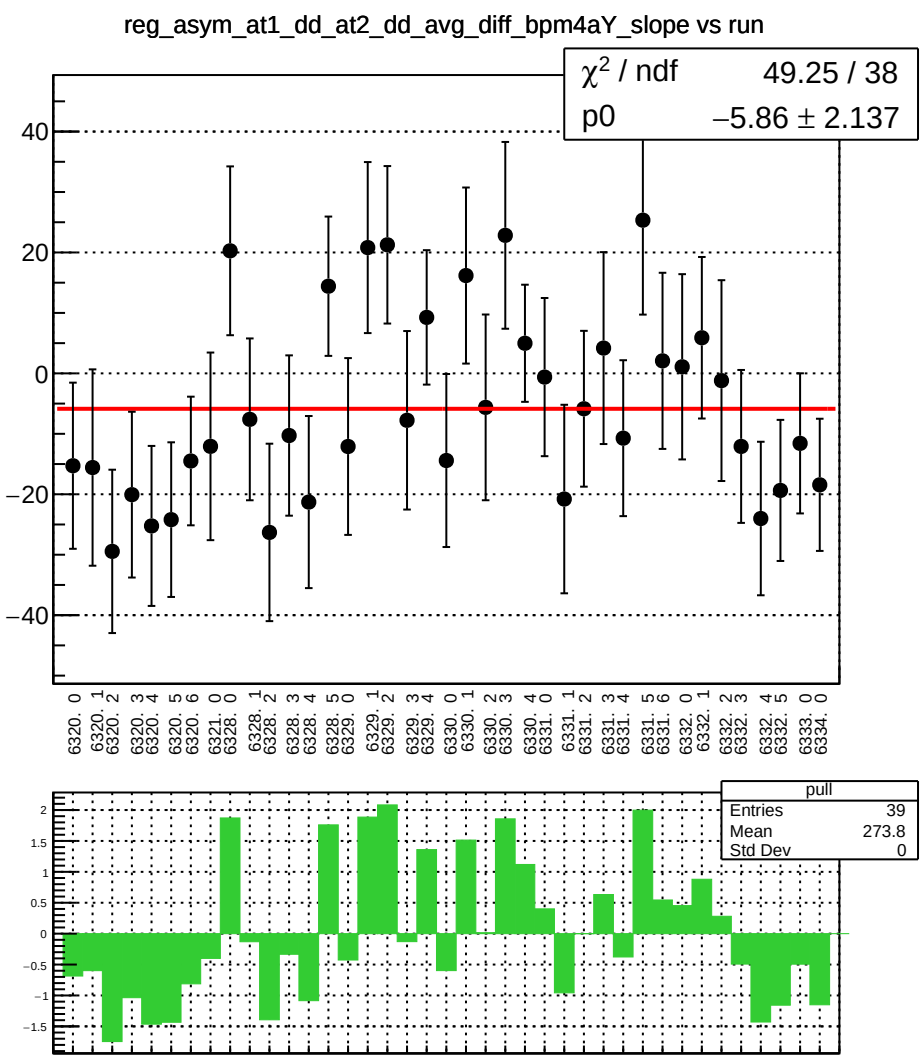
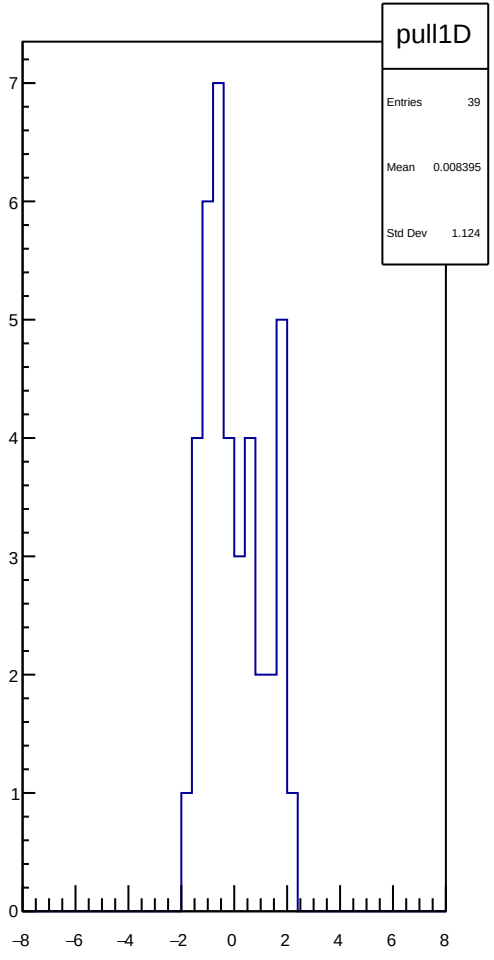
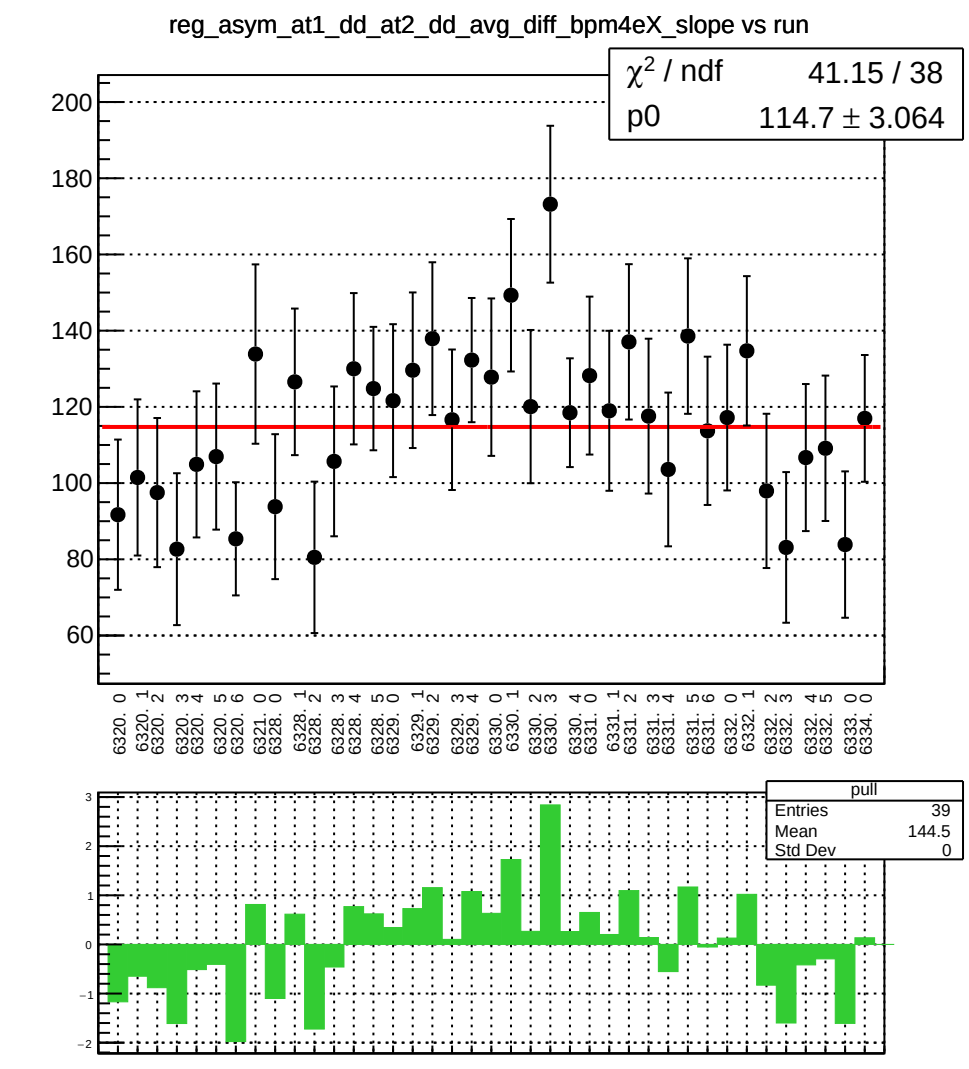
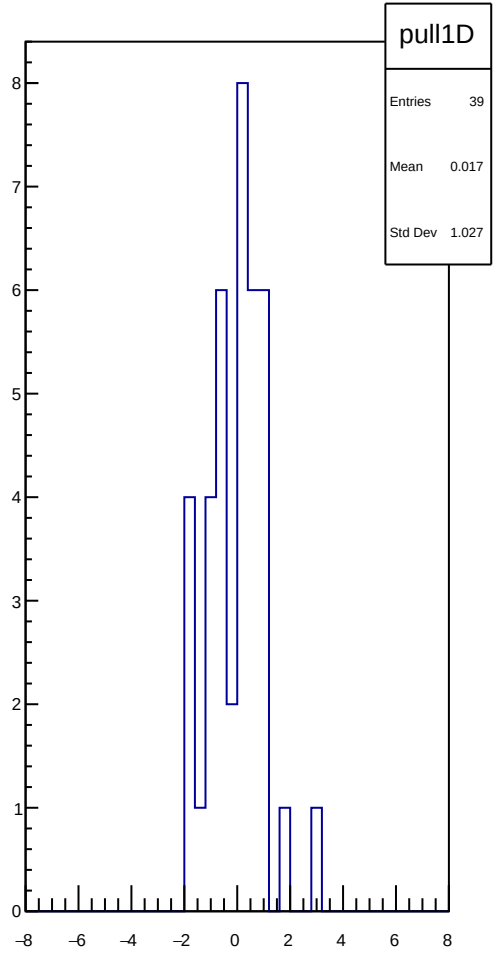
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.86
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 39
Mean −0.3759
Std Dev 2.367
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

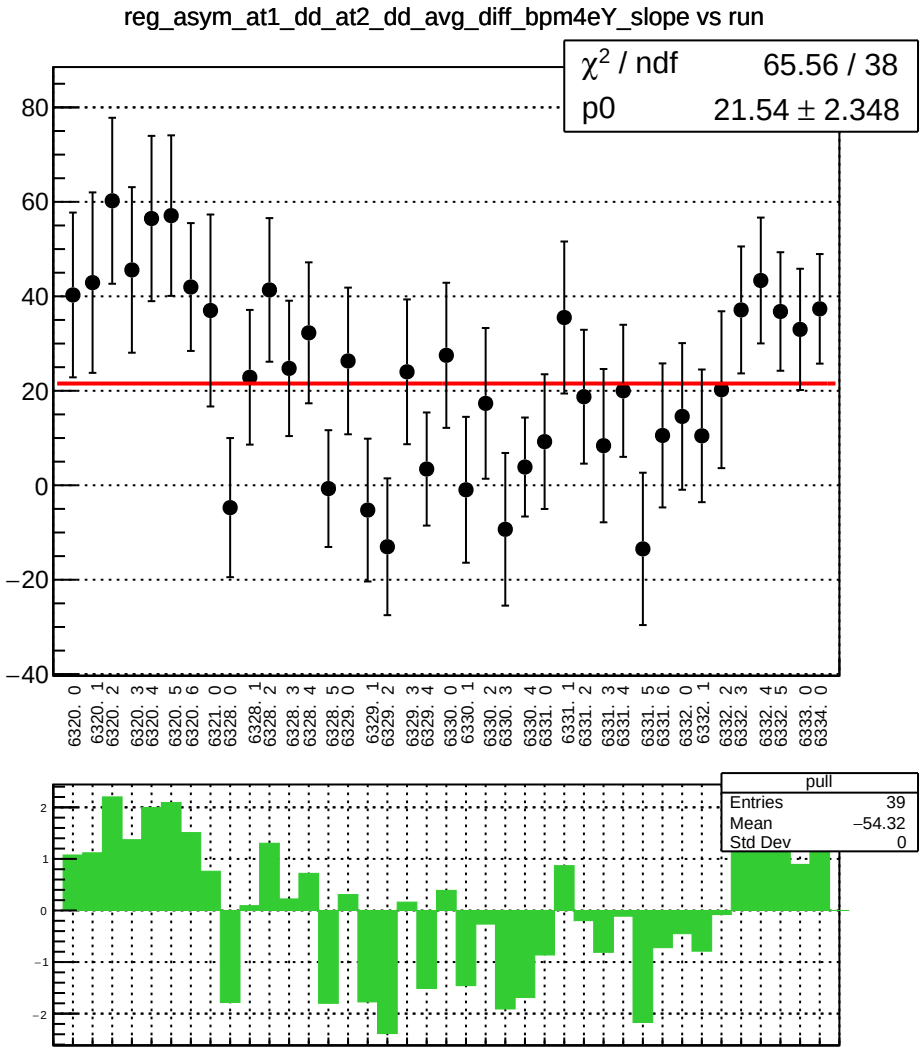

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 43.35 / 38
p0 −41.26 ± 2.922
pull
Entries 39
Mean 237.5
Std Dev 0
pull1D
Entries 39
Mean −0.01041
Std Dev 1.054

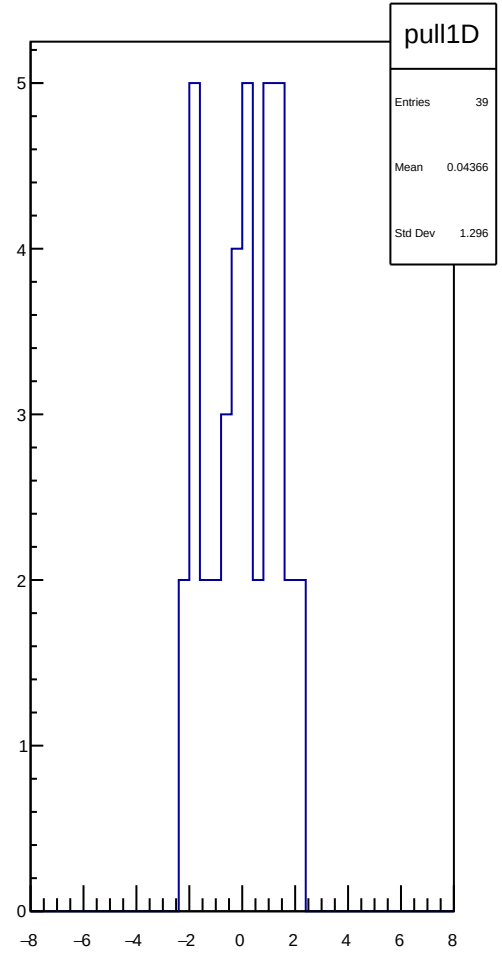

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.25 / 38
p0 −5.86 ± 2.137
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 273.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

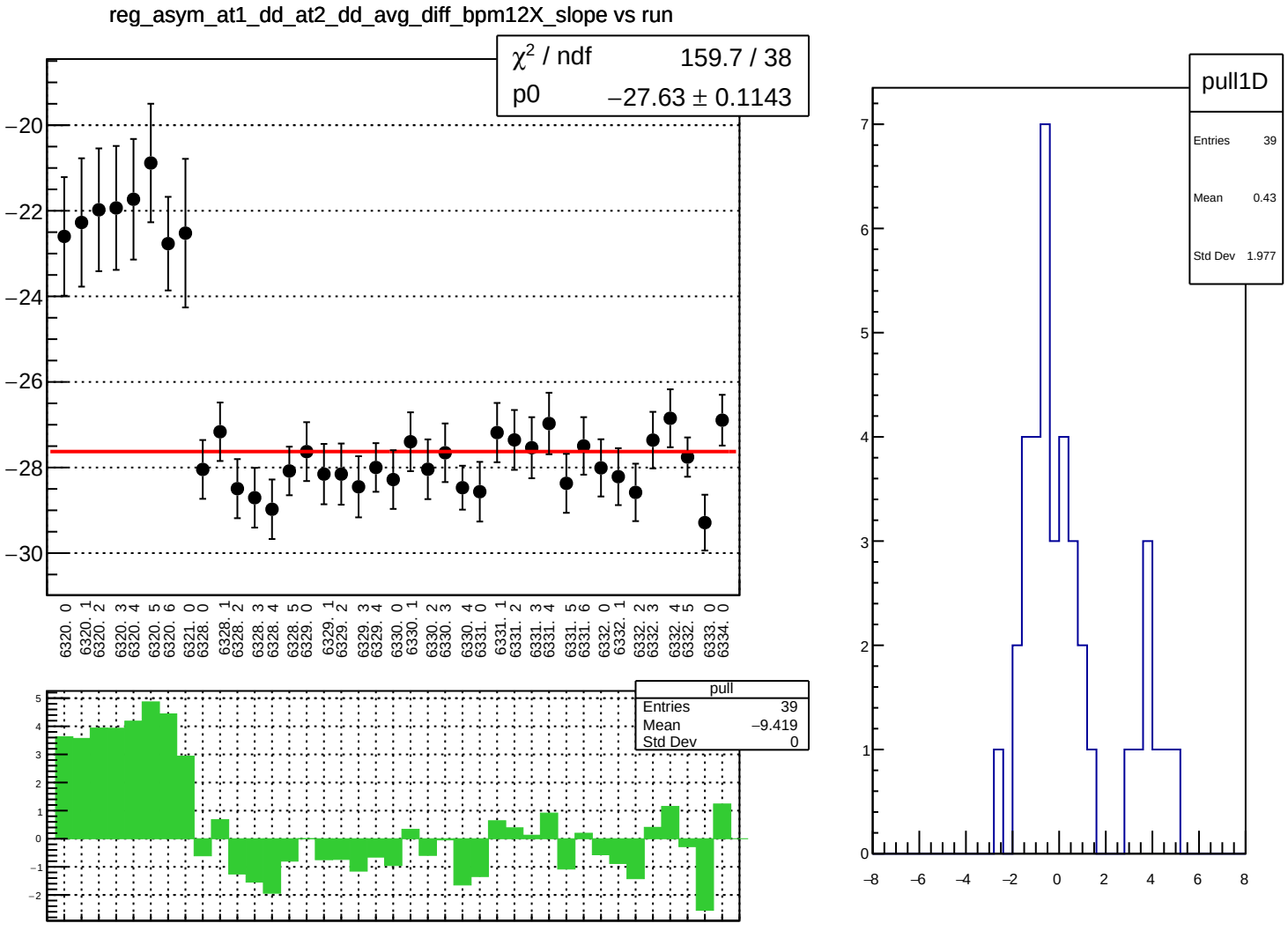

pull1D
Entries 39
Mean 0.008395
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

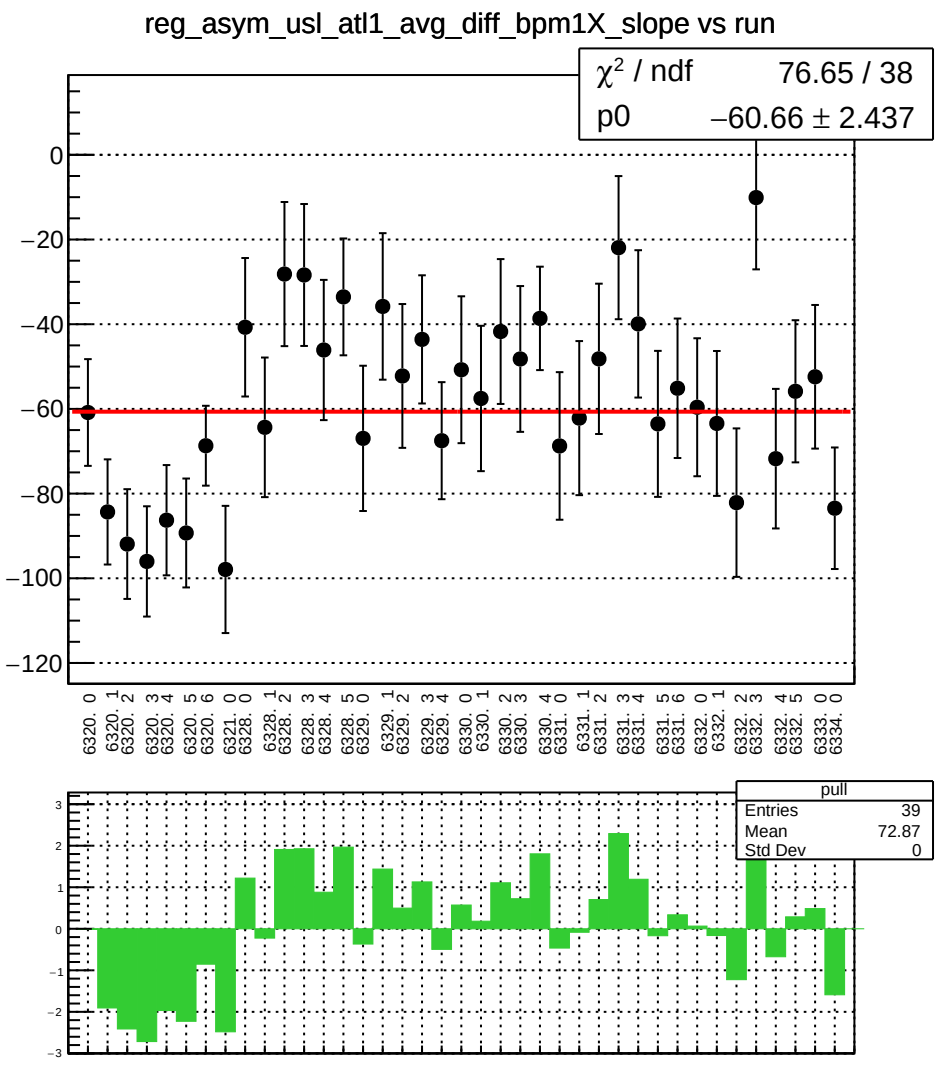

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.15 / 38
p0 114.7 ± 3.064
pull
Entries 39
Mean 144.5
Std Dev 0

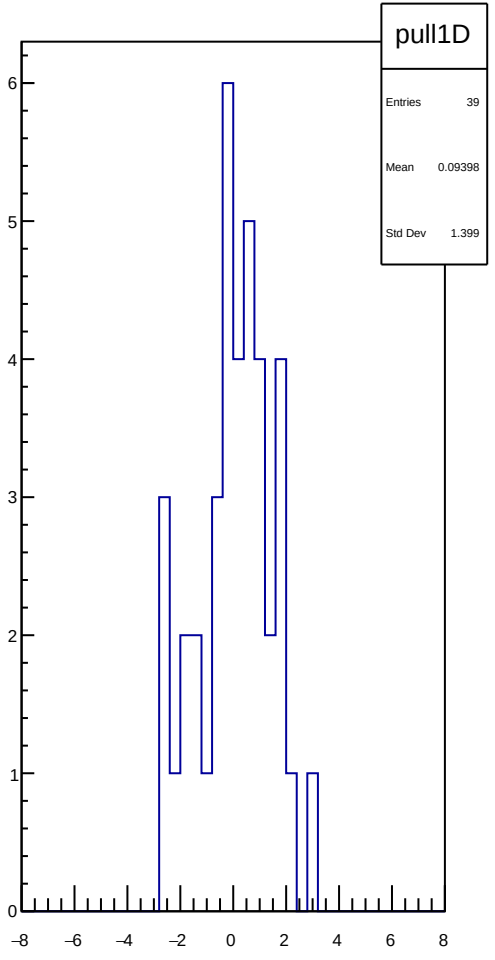

pull1D
Entries 39
Mean 0.017
Std Dev 1.027

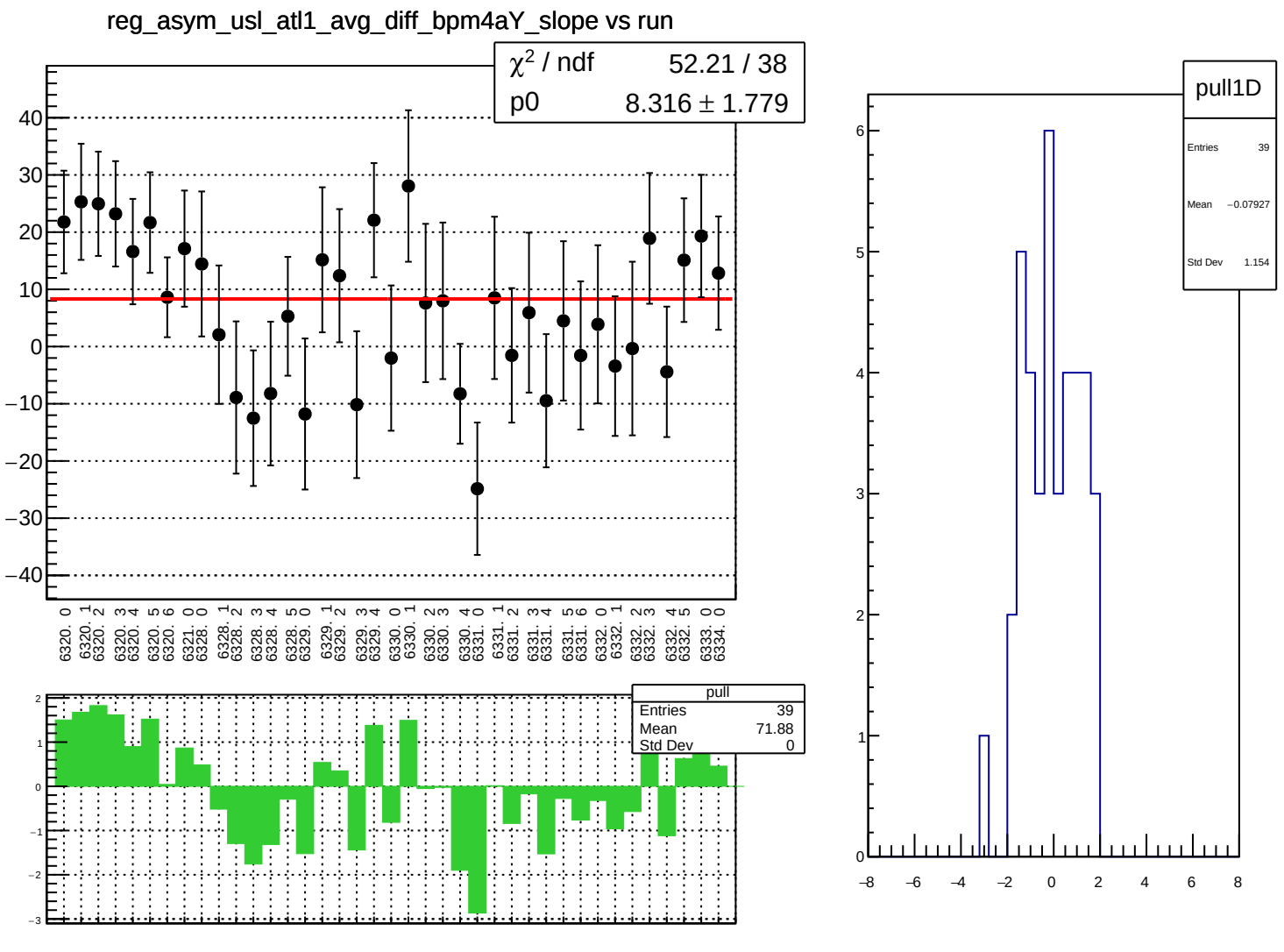

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.56 / 38
p0 21.54 ± 2.348
pull
Entries 39
Mean −54.32
Std Dev 0

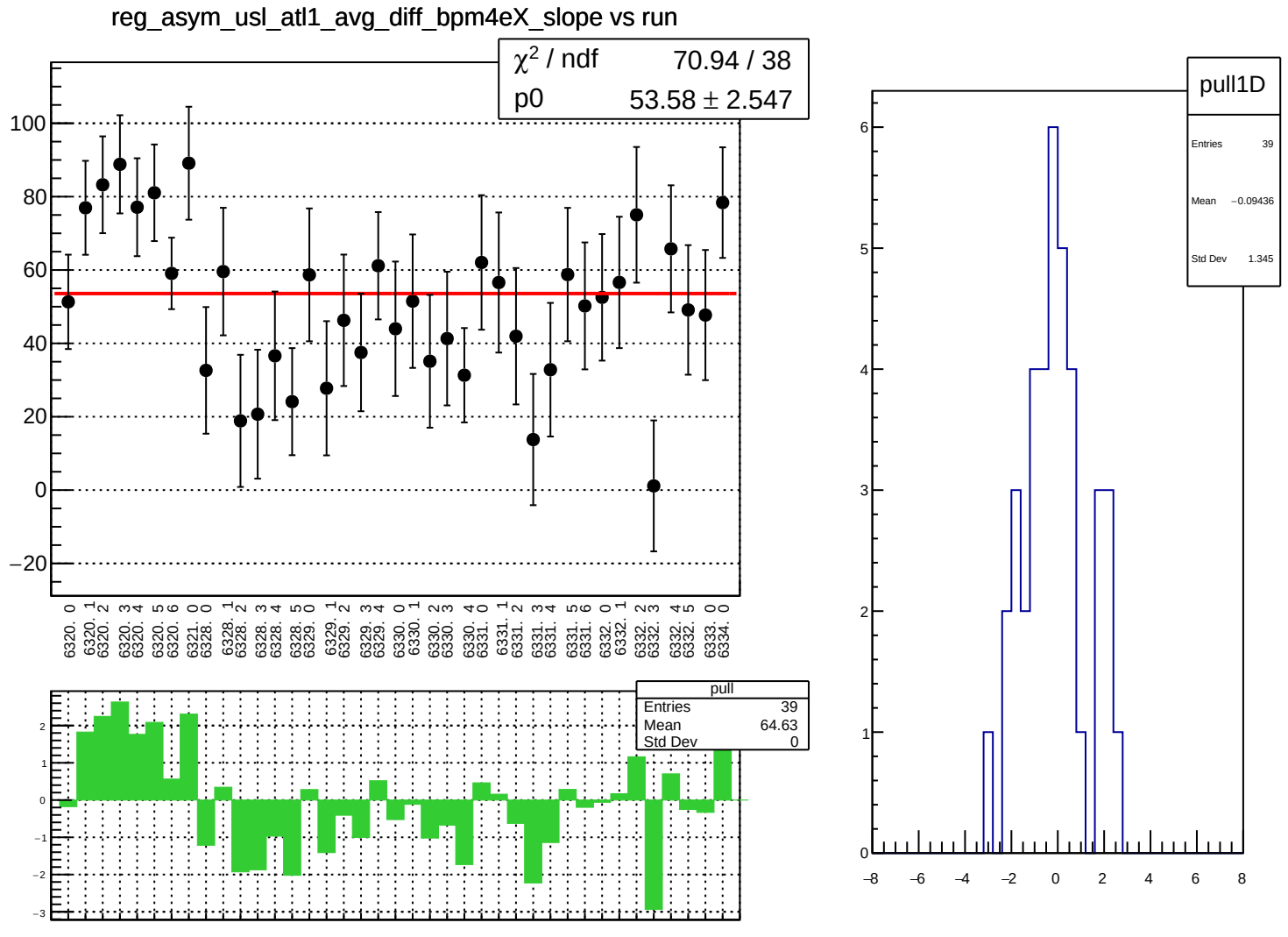

pull1D
Entries 39
Mean 0.04366
Std Dev 1.296

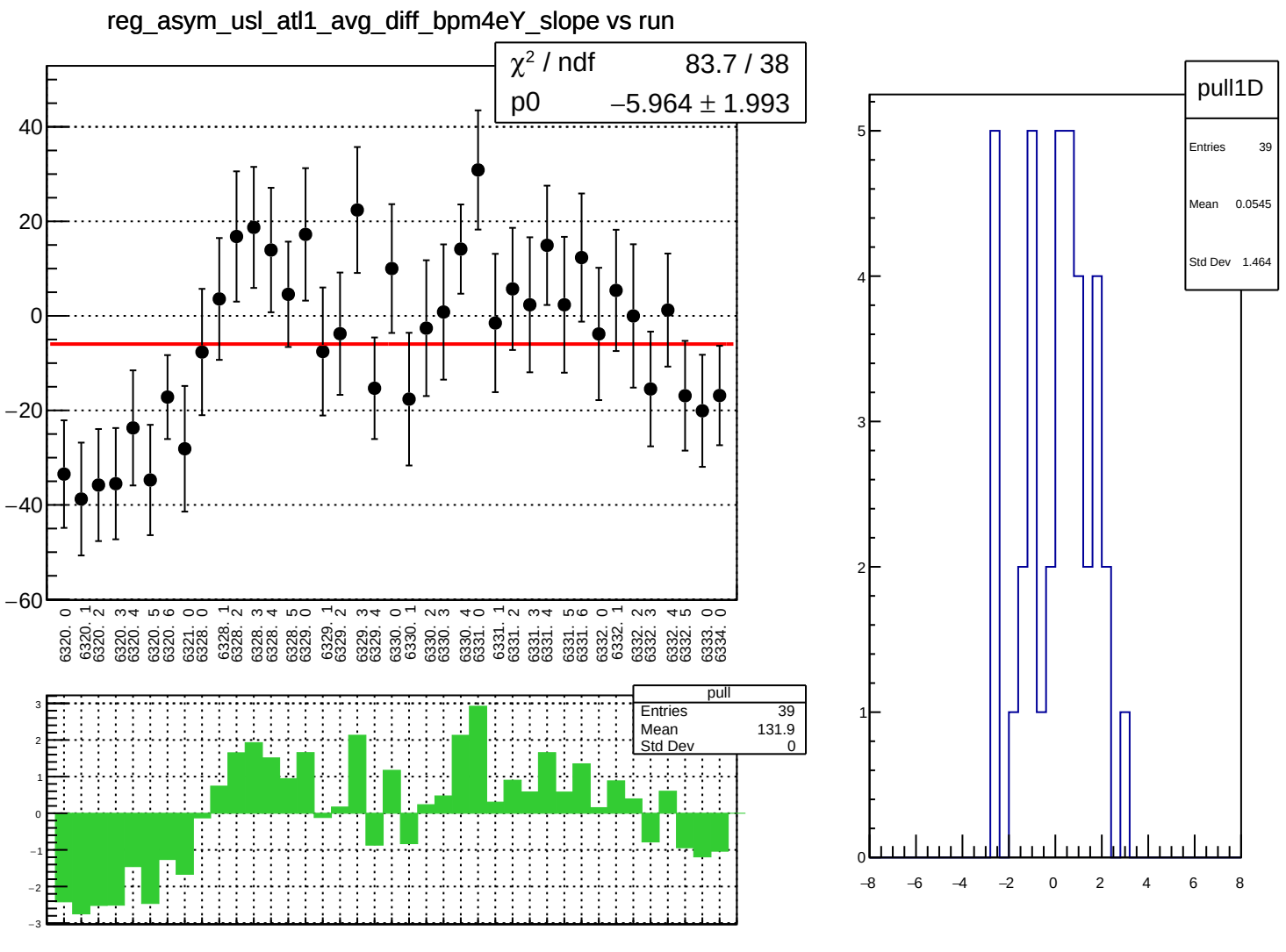

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 159.7 / 38
p0 −27.63 ± 0.1143
pull
Entries 39
Mean −9.419
Std Dev 0
pull1D
Entries 39
Mean 0.43
Std Dev 1.977

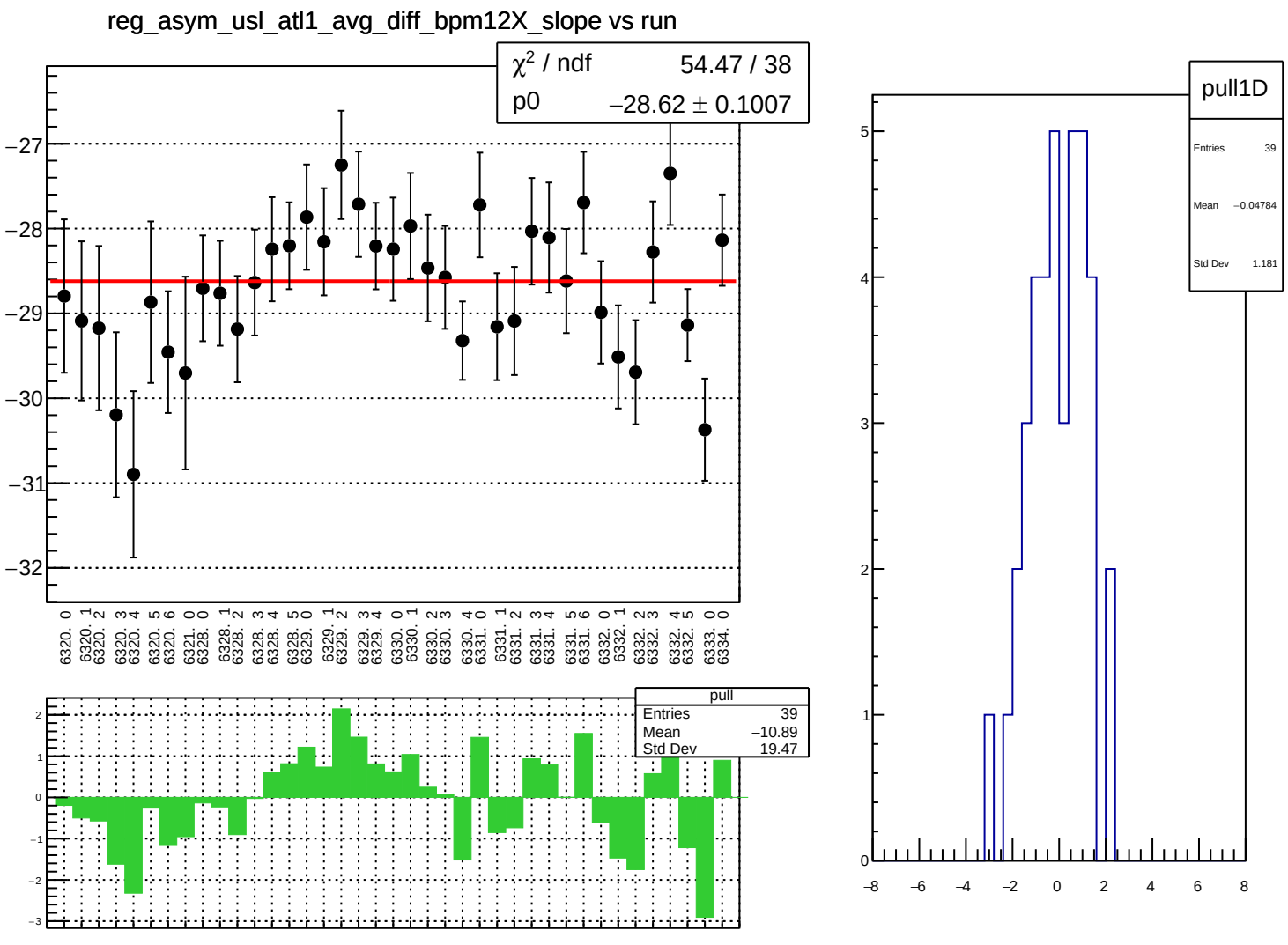

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 76.65 / 38
p0 −60.66 ± 2.437
pull
Entries 39
Mean 72.87
Std Dev 0

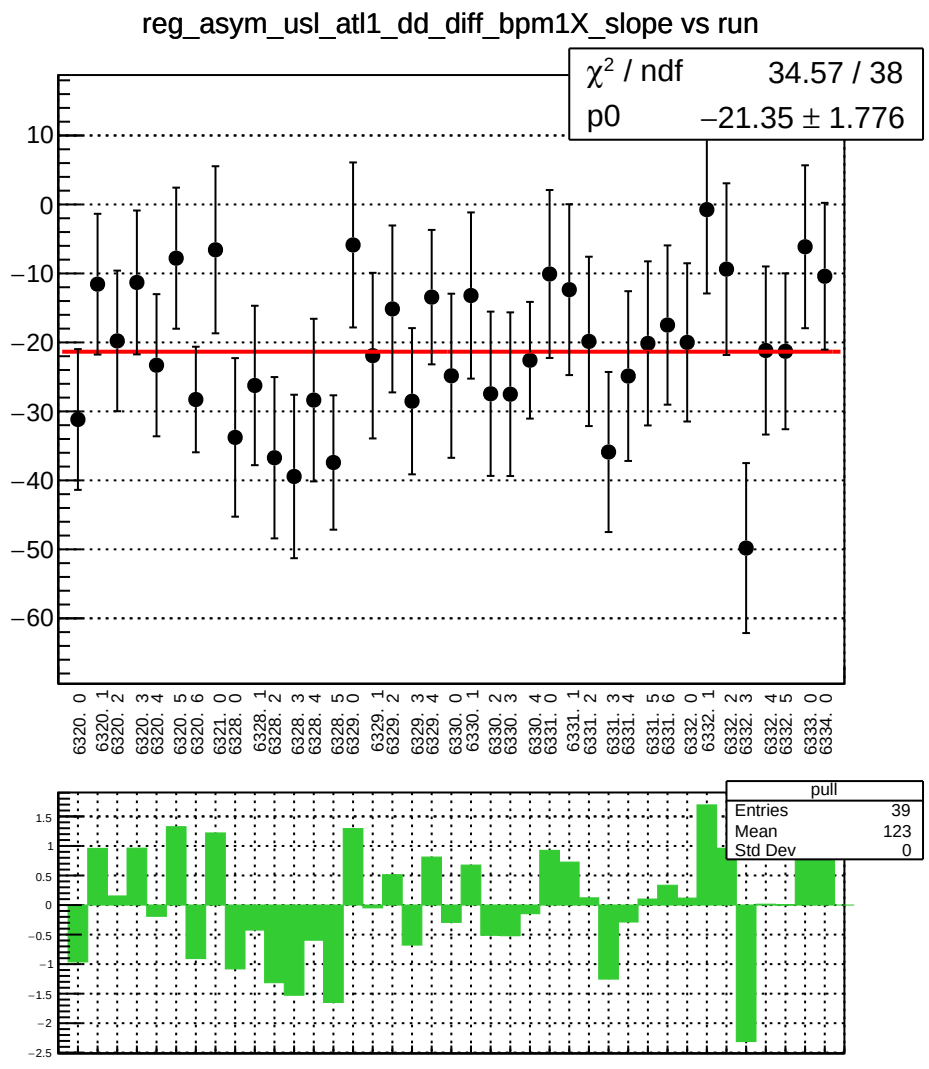

pull1D
Entries 39
Mean 0.09398
Std Dev 1.399

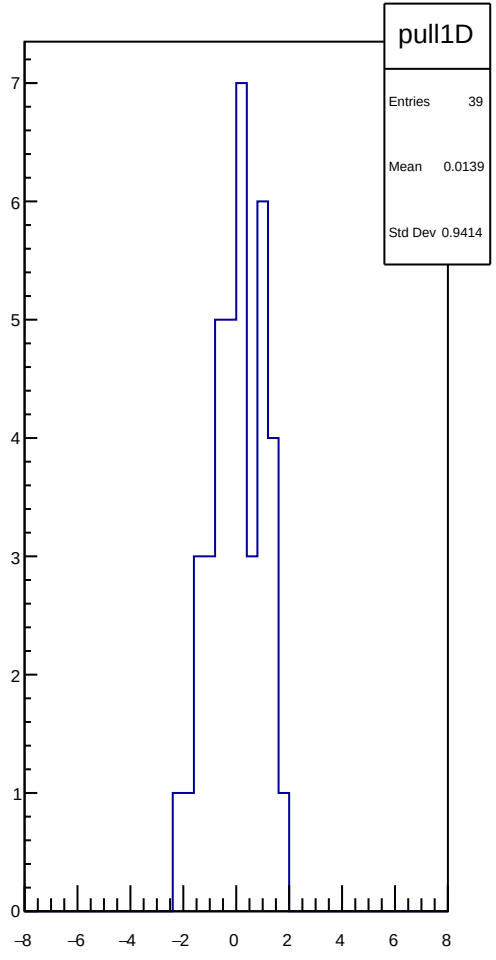

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.21 / 38
p0 8.316 ± 1.779
pull
Entries 39
Mean 71.88
Std Dev 0
pull1D
Entries 39
Mean −0.07927
Std Dev 1.154

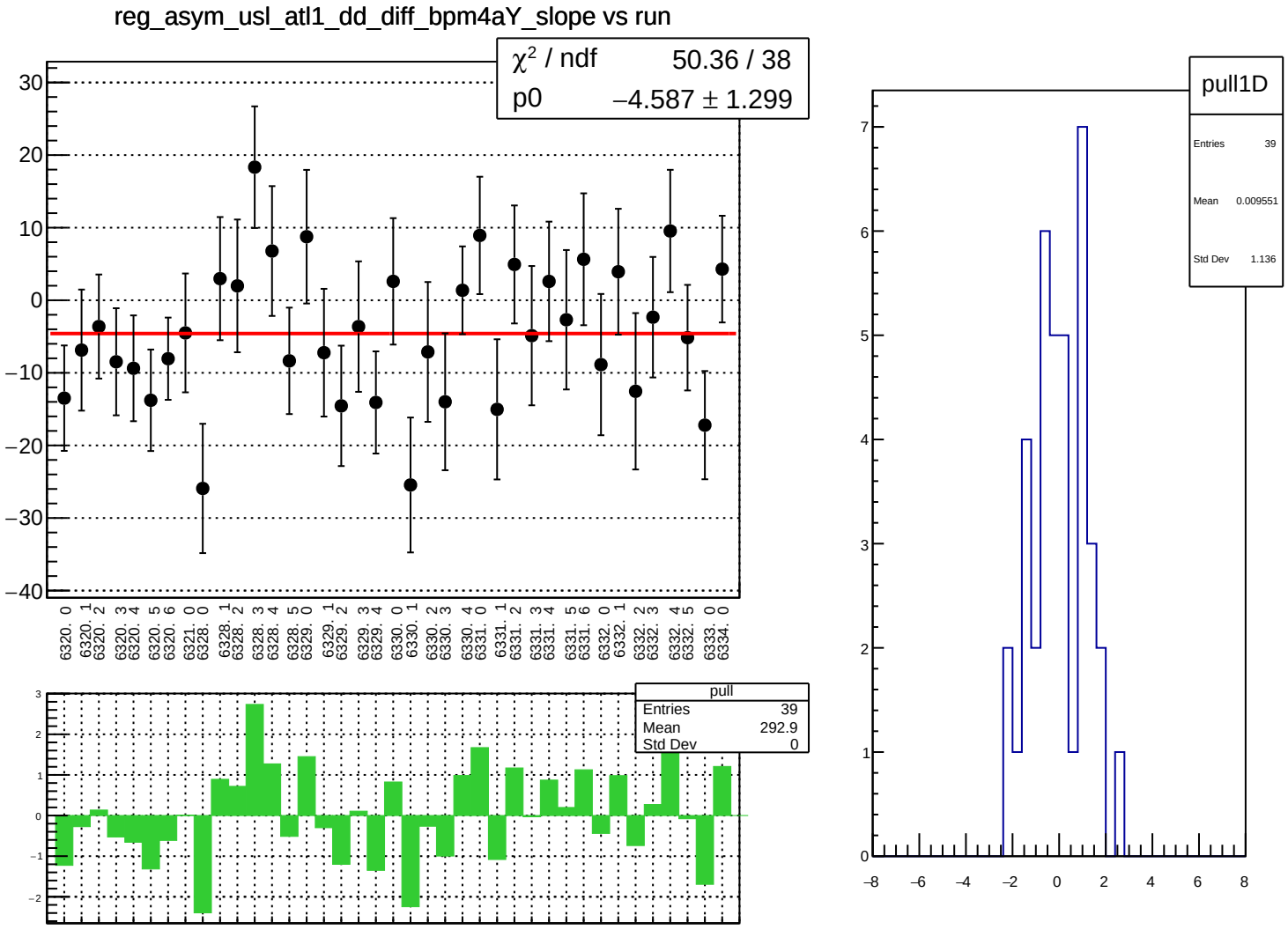

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.94 / 38
p0 53.58 ± 2.547
pull
Entries 39
Mean 64.63
Std Dev 0
pull1D
Entries 39
Mean −0.09436
Std Dev 1.345

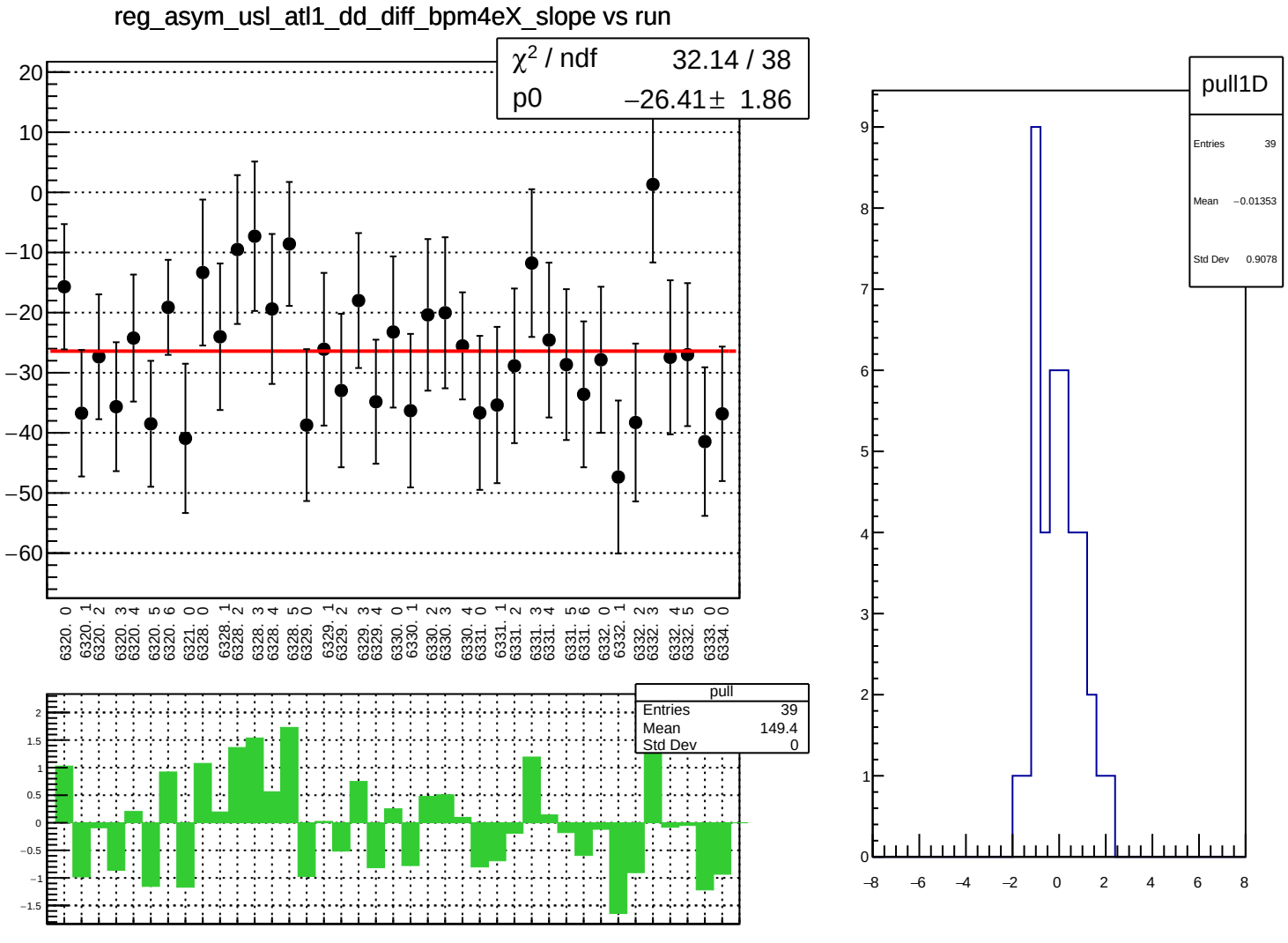

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.7 / 38
p0 −5.964 ± 1.993
pull
Entries 39
Mean 131.9
Std Dev 0
pull1D
Entries 39
Mean 0.0545
Std Dev 1.464

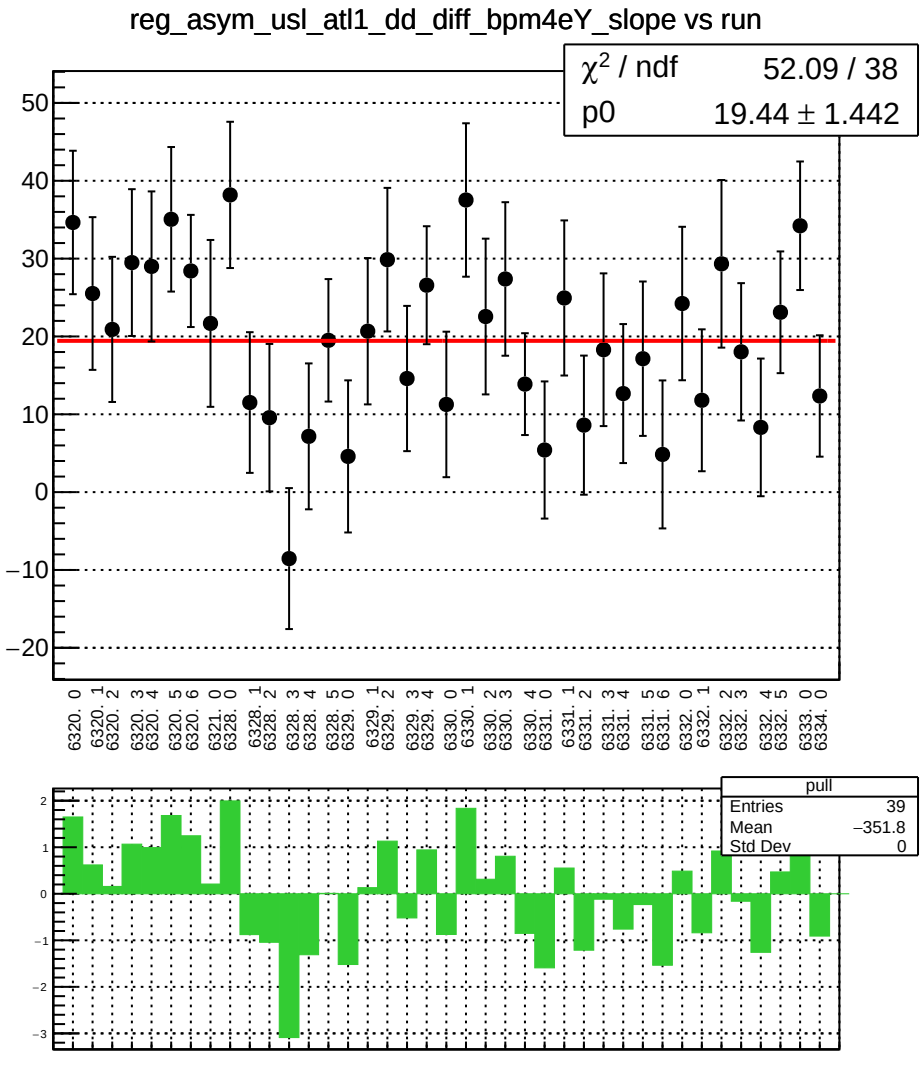

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 54.47 / 38
p0 −28.62 ± 0.1007
−27
−28
−29
−30
−31
−32
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.89
Std Dev 19.47
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.04784
Std Dev 1.181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

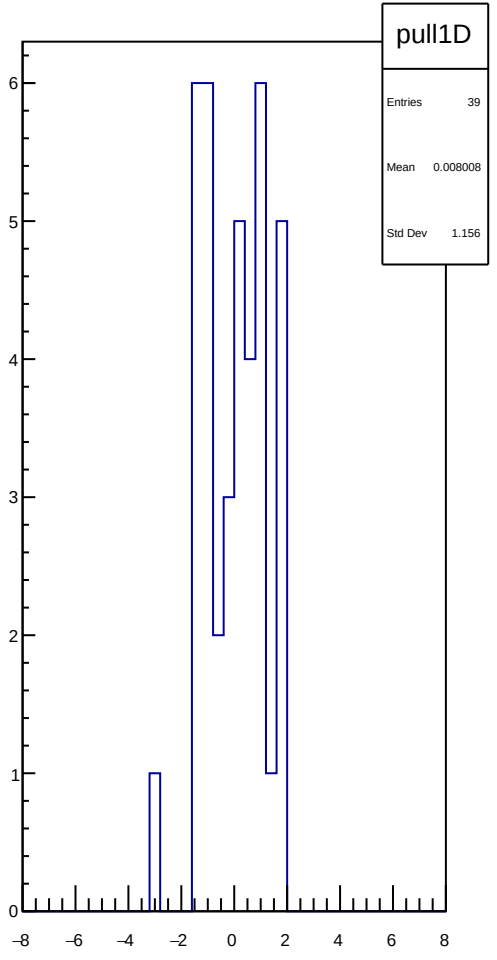

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 34.57 / 38
p0 −21.35 ± 1.776
pull
Entries 39
Mean 123
Std Dev 0

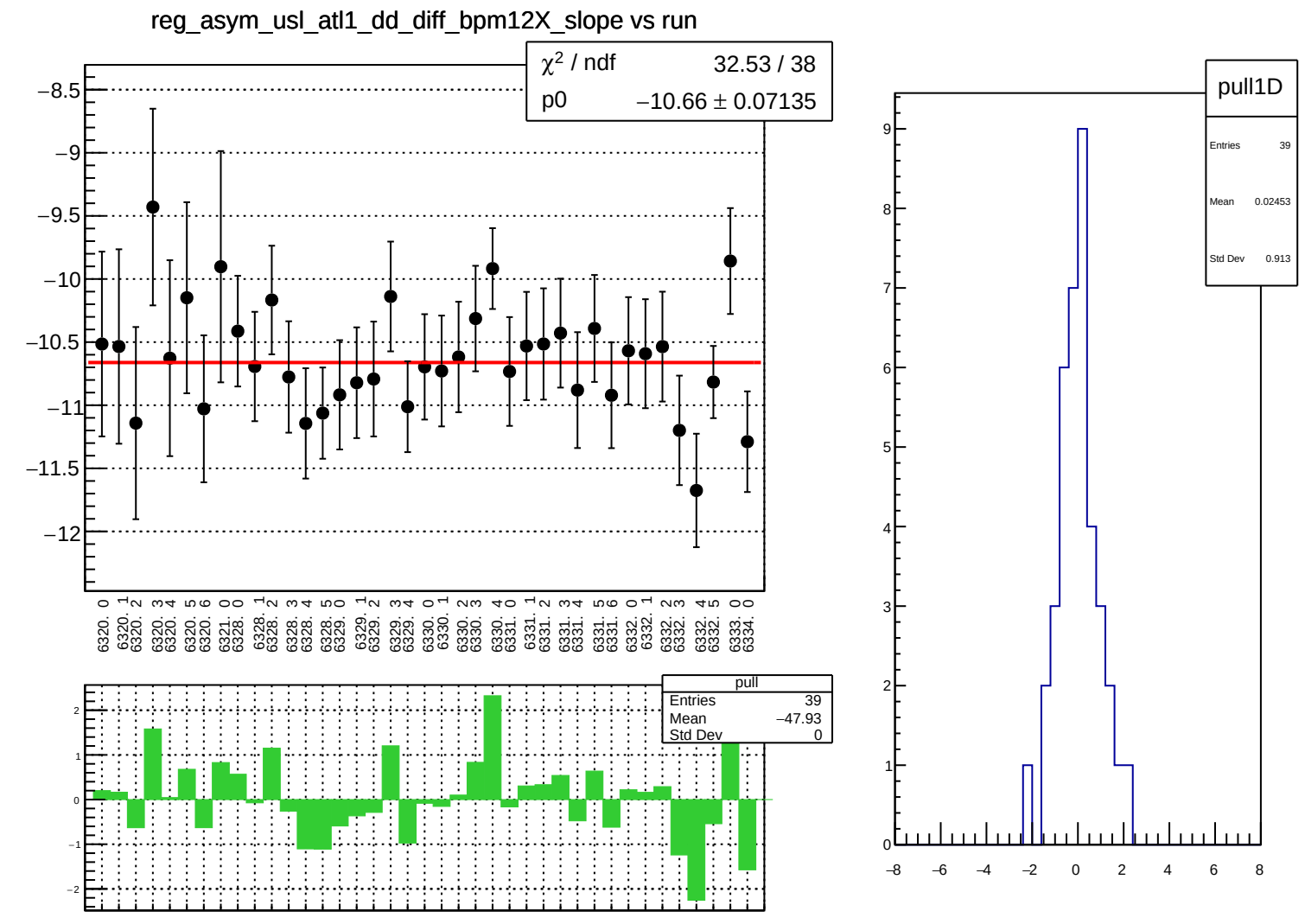

pull1D
Entries 39
Mean 0.0139
Std Dev 0.9414

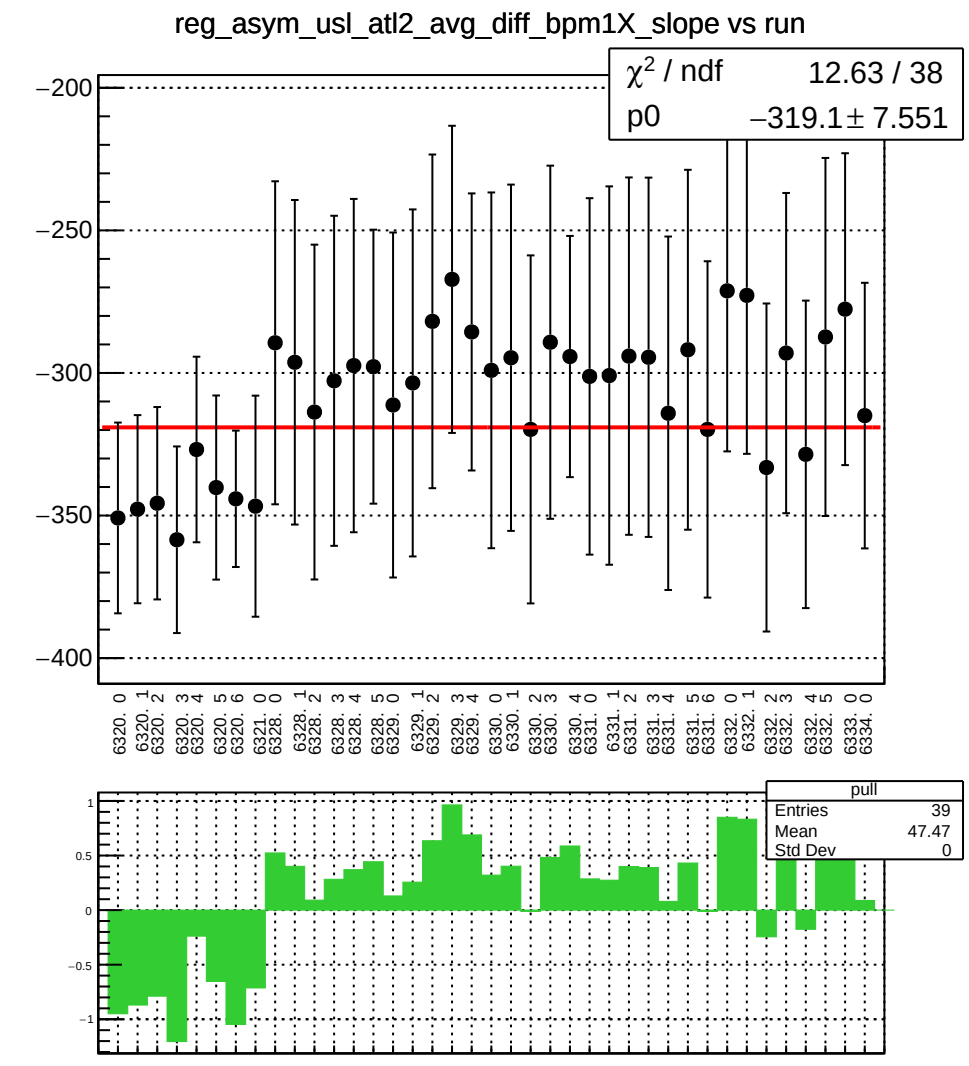

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.36 / 38
p0 −4.587 ± 1.299
pull
Entries 39
Mean 292.9
Std Dev 0
pull1D
Entries 39
Mean 0.009551
Std Dev 1.136

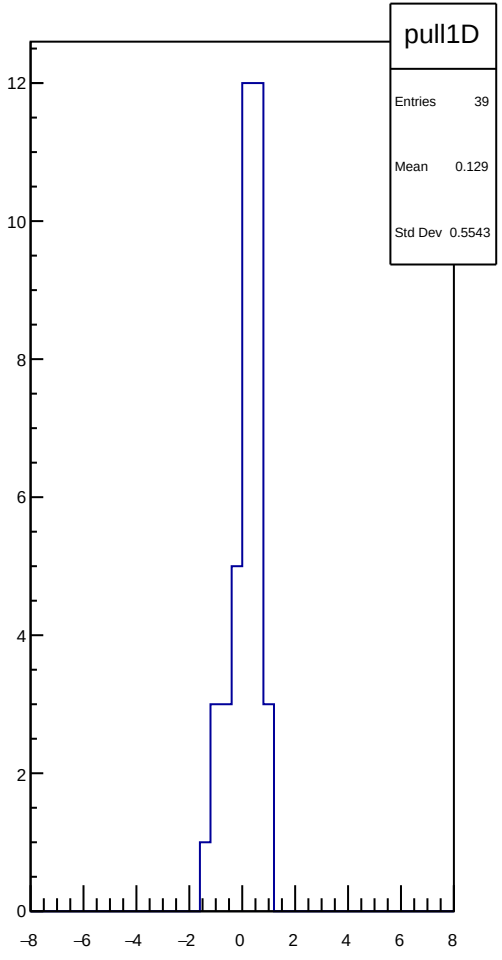

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.14 / 38
p0 −26.41 ± 1.86
pull
Entries 39
Mean 149.4
Std Dev 0
pull1D
Entries 39
Mean −0.01353
Std Dev 0.9078

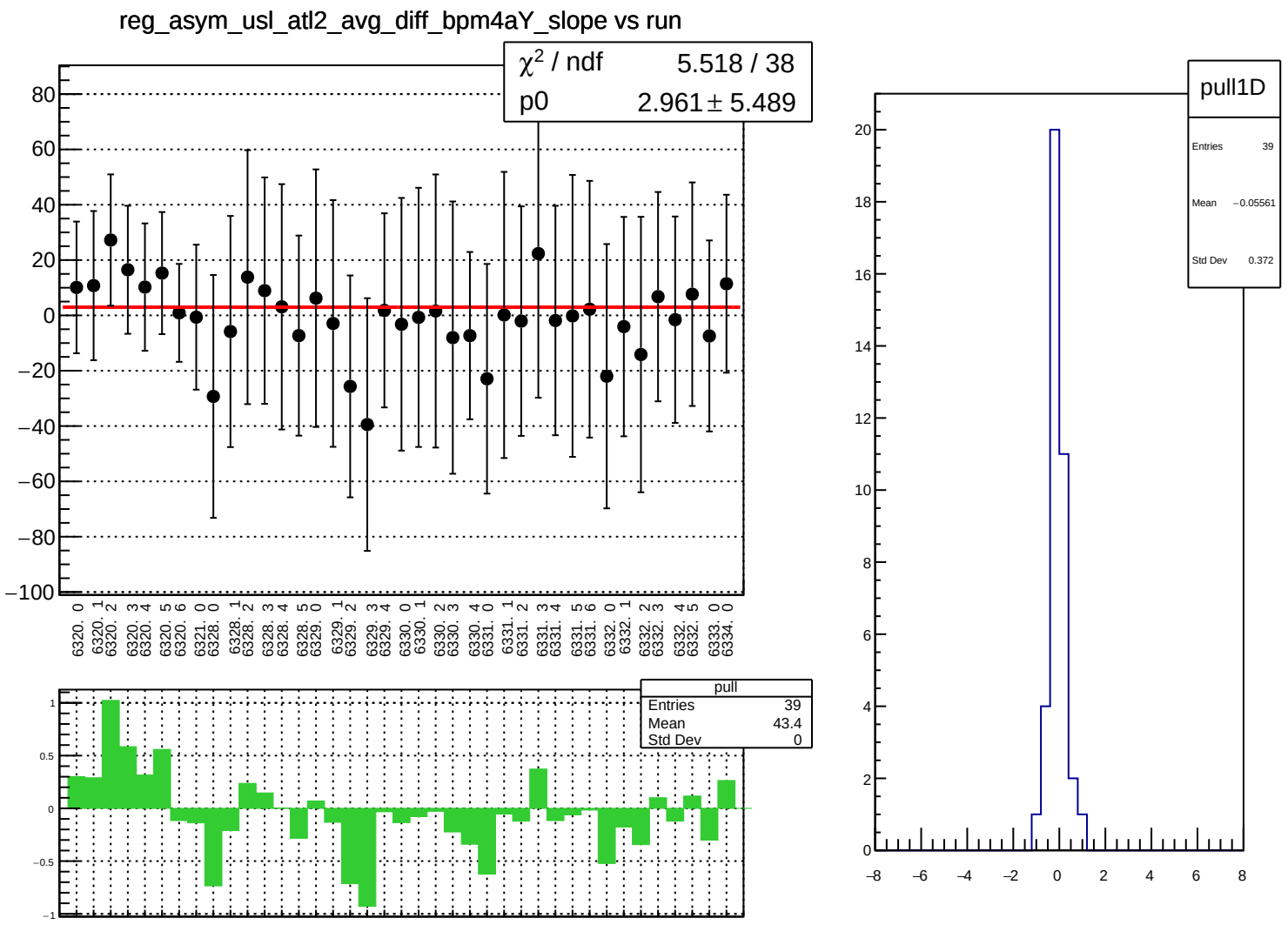

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.09 / 38
p0 19.44 ± 1.442
50
40
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −351.8
Std Dev 0
2
1
0
−1
−2
−3

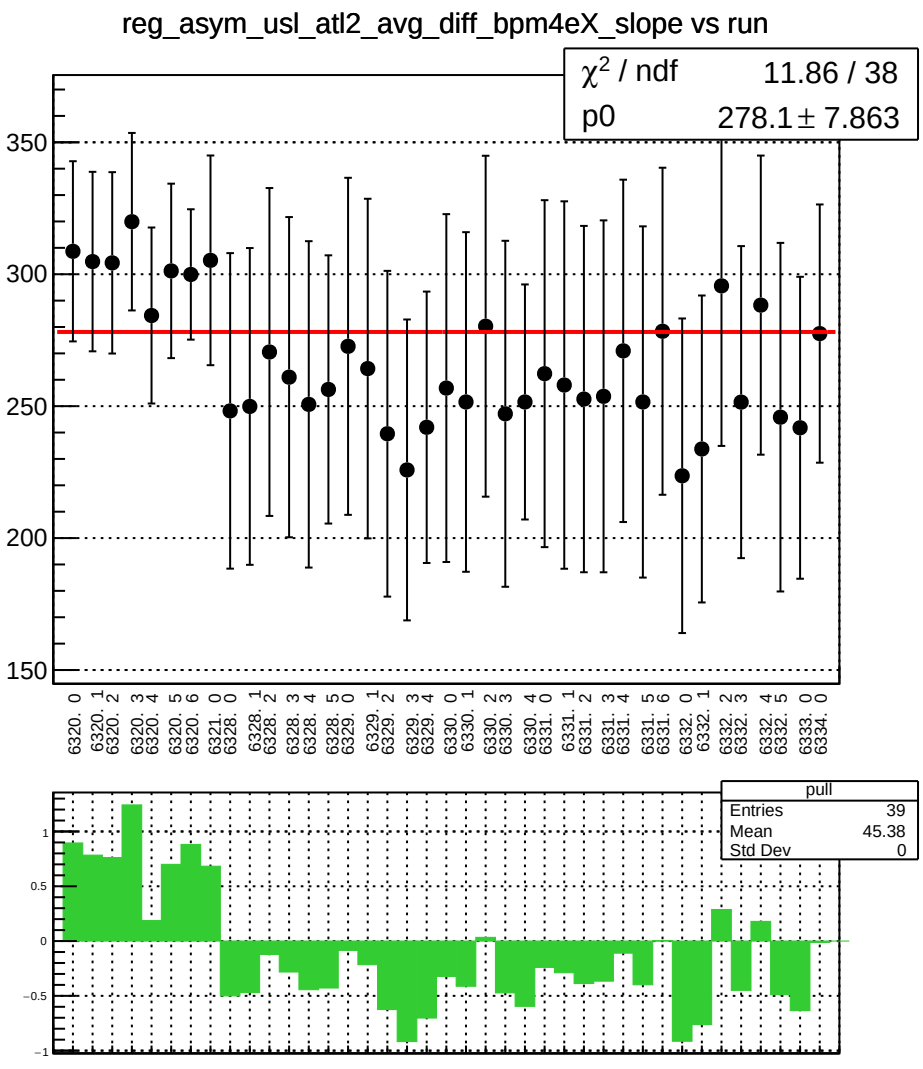

pull1D
Entries 39
Mean 0.008008
Std Dev 1.156
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

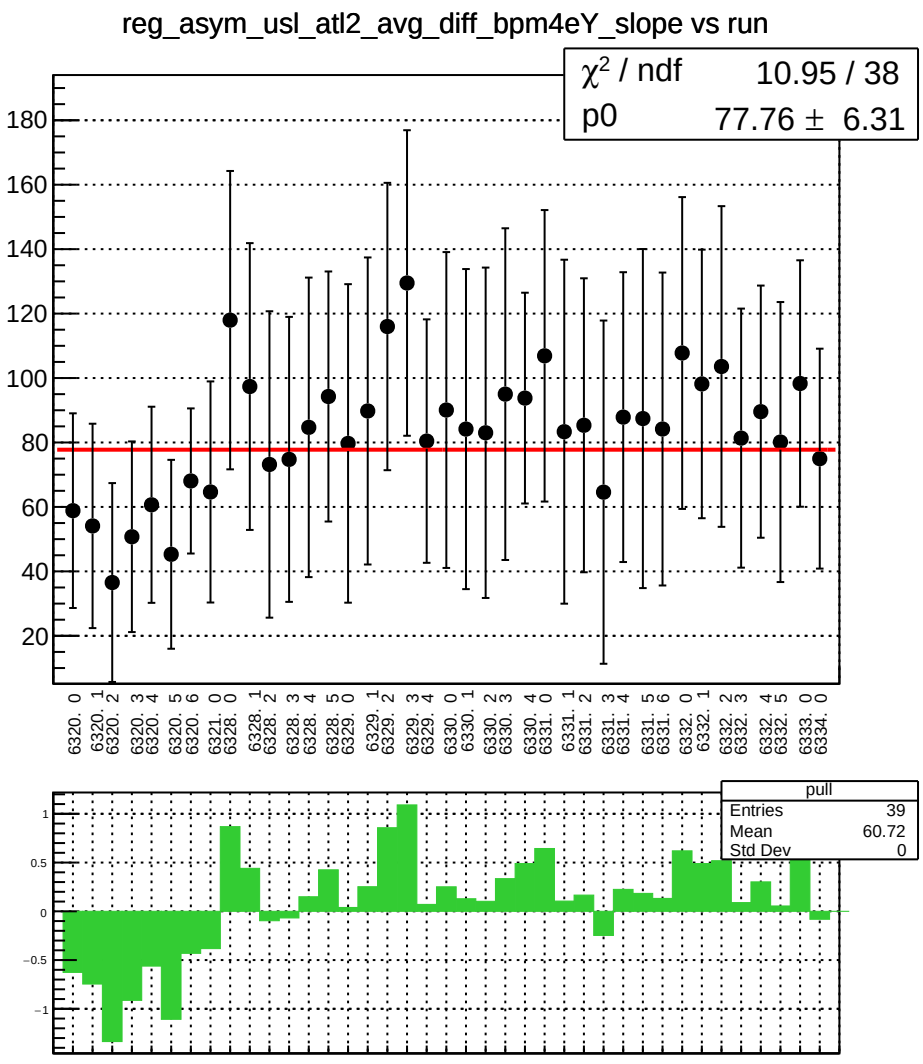

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 32.53 / 38
p0 −10.66 ± 0.07135
−8.5
−9
−9.5
−10
−10.5
−11
−11.5
−12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02453
Std Dev 0.913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

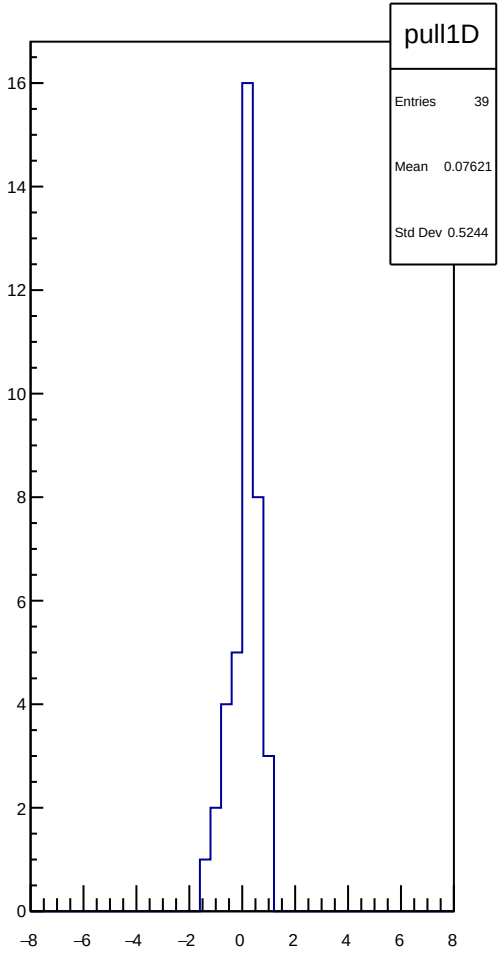

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.63 / 38
p0 −319.1 ± 7.551
−200
−250
−300
−350
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.47
Std Dev 0
1
0.5
0
−0.5
−1

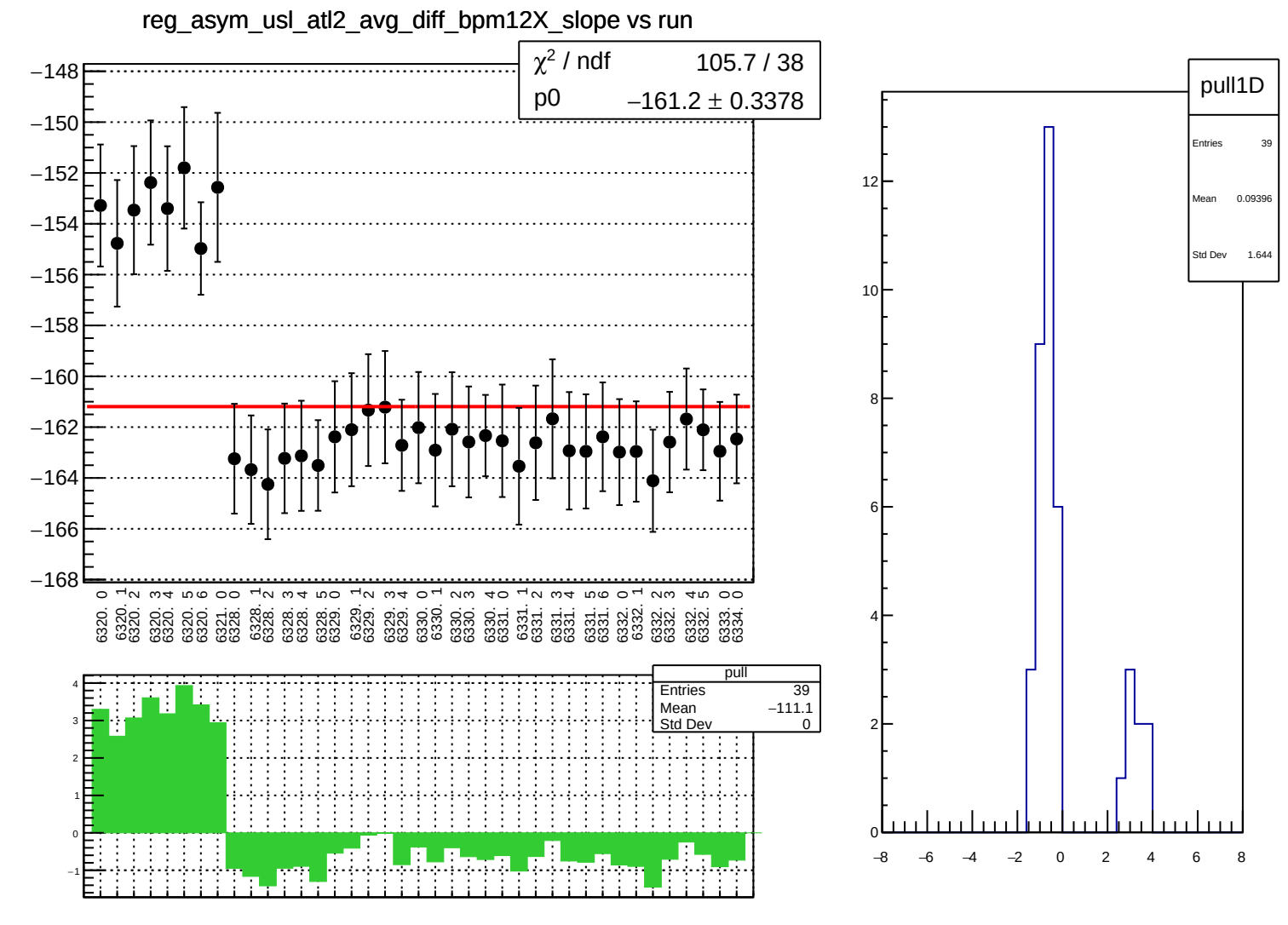

pull1D
Entries 39
Mean 0.129
Std Dev 0.5543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

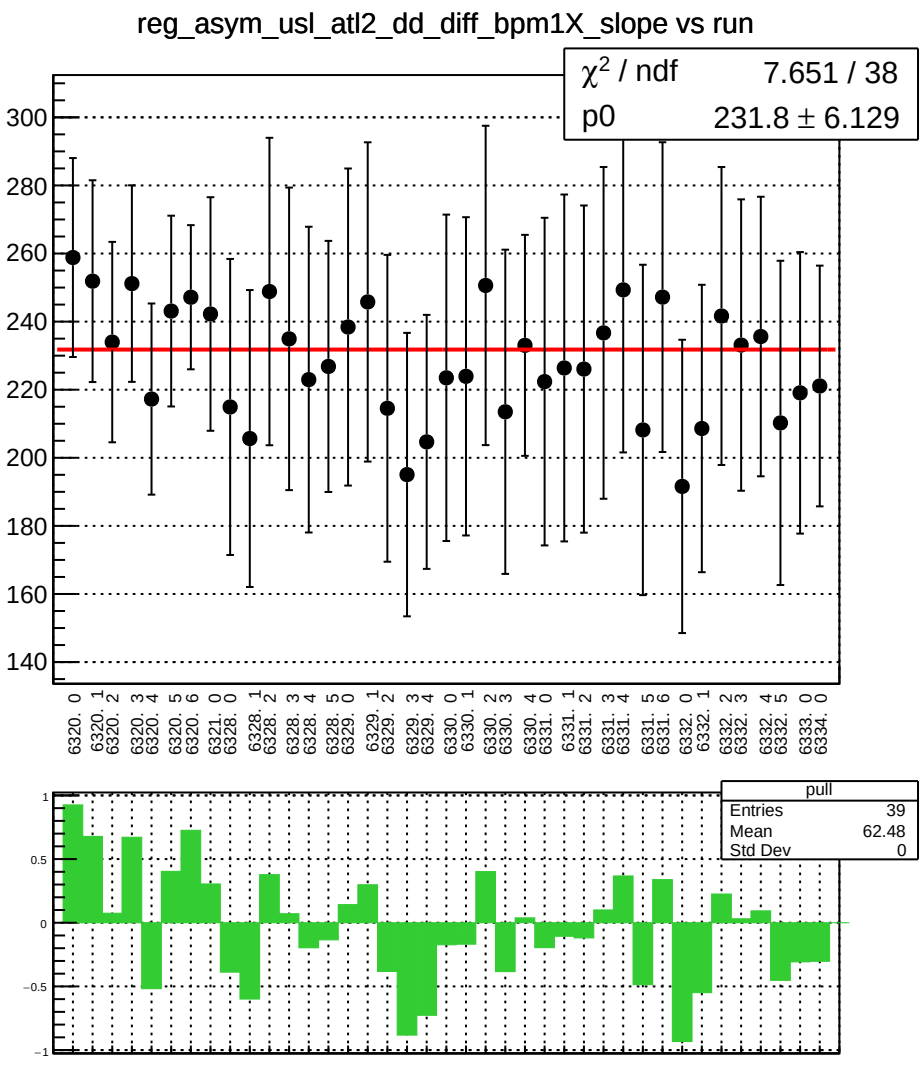

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.518 / 38
p0 2.961 ± 5.489
pull
Entries 39
Mean 43.4
Std Dev 0
pull1D
Entries 39
Mean −0.05561
Std Dev 0.372

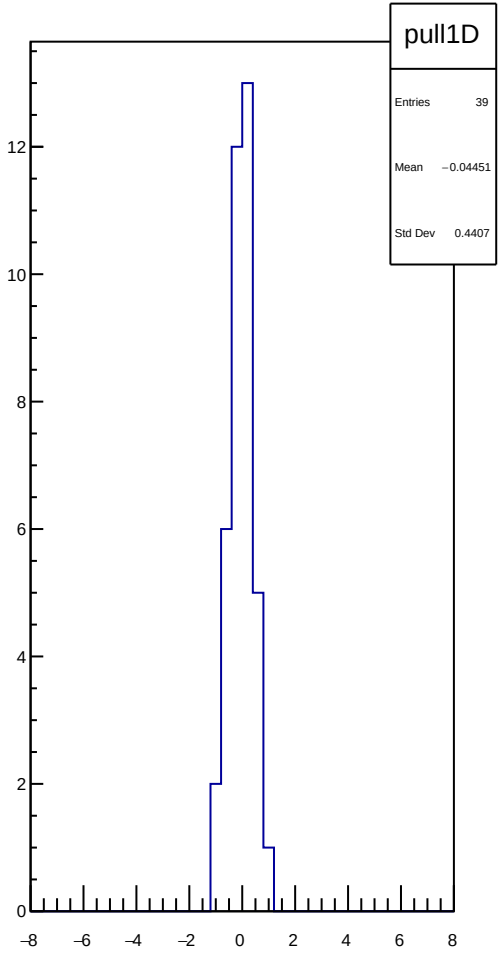

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.86 / 38
p0 278.1 ± 7.863
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.38
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.1285
Std Dev 0.5364
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

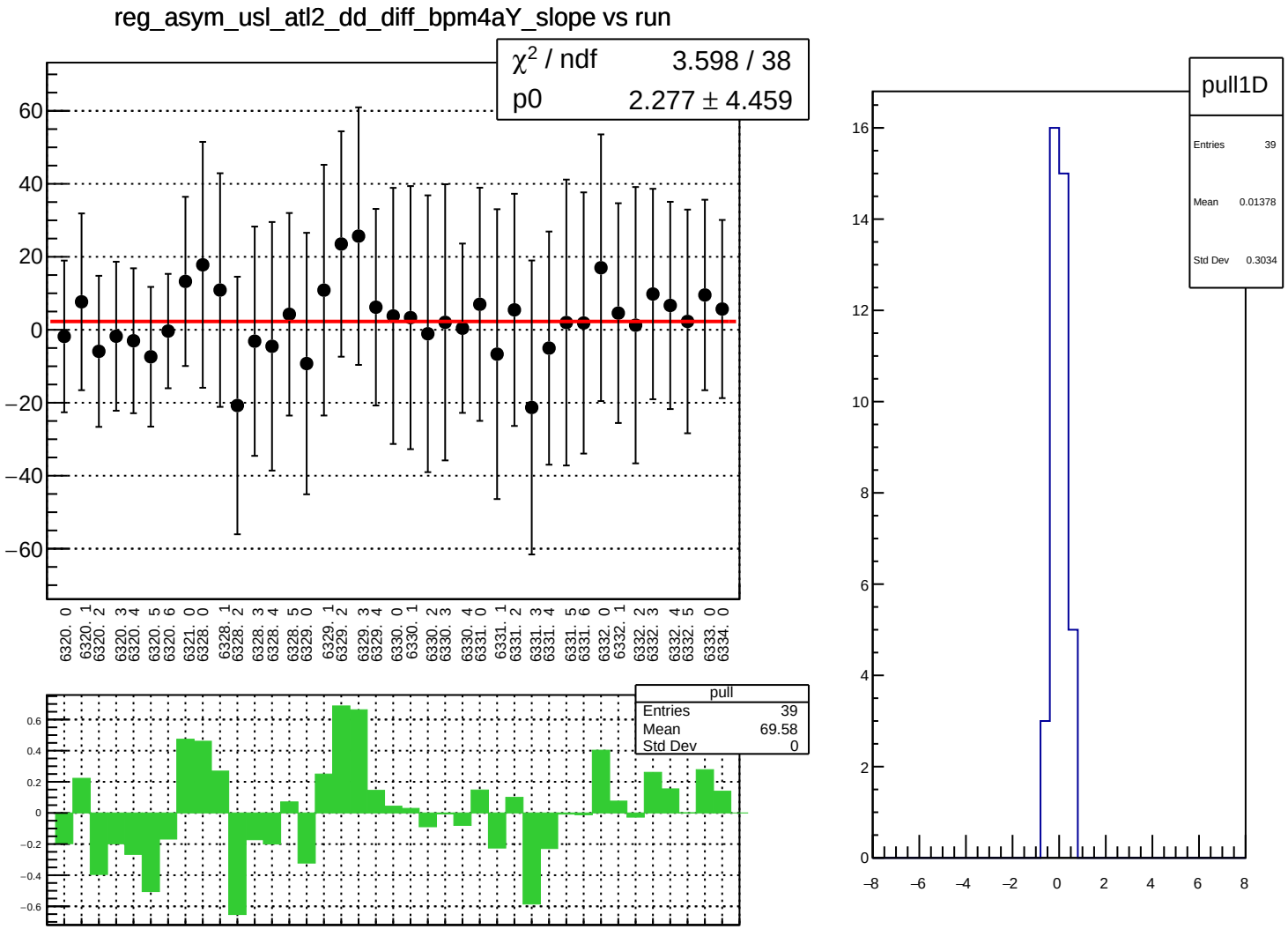

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.95 / 38
p0 77.76 ± 6.31
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 60.72
Std Dev 0
1
0.5
0
−0.5
−1

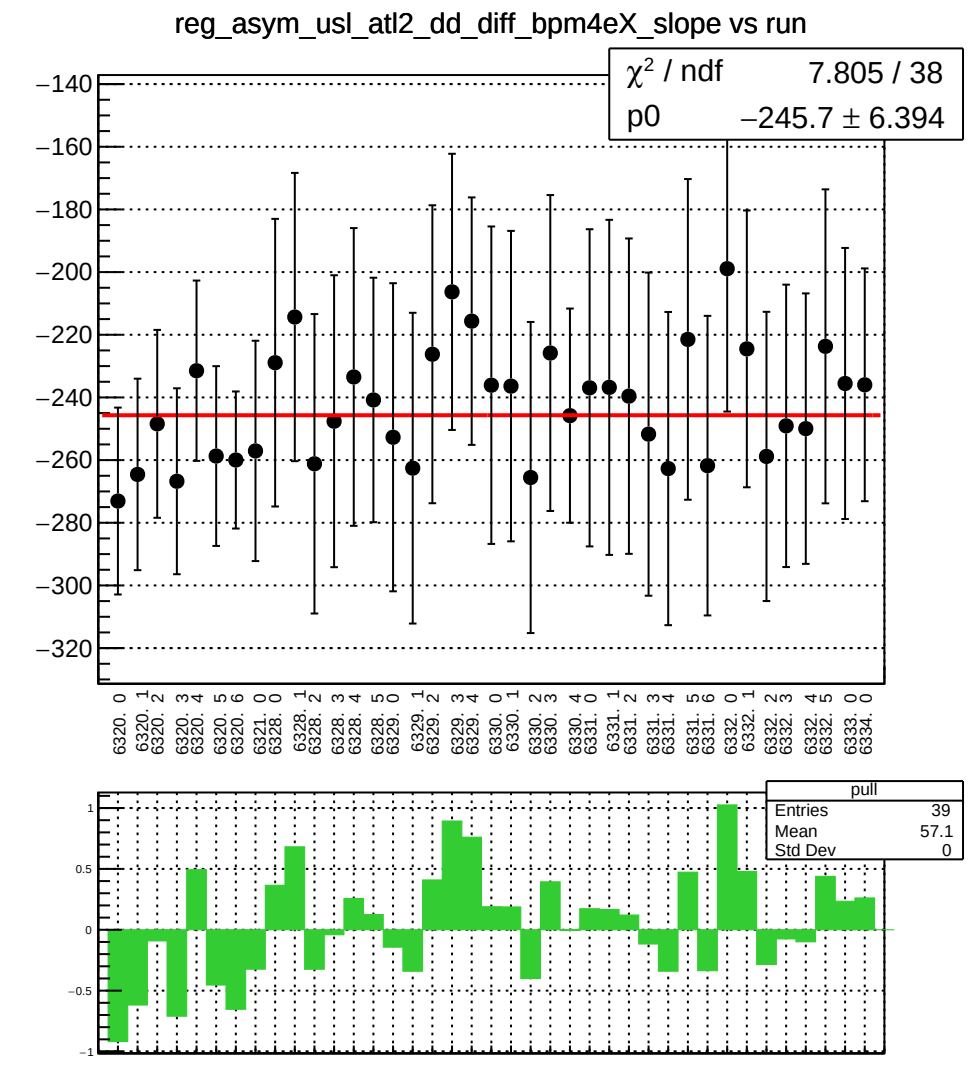

pull1D
Entries 39
Mean 0.07621
Std Dev 0.5244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

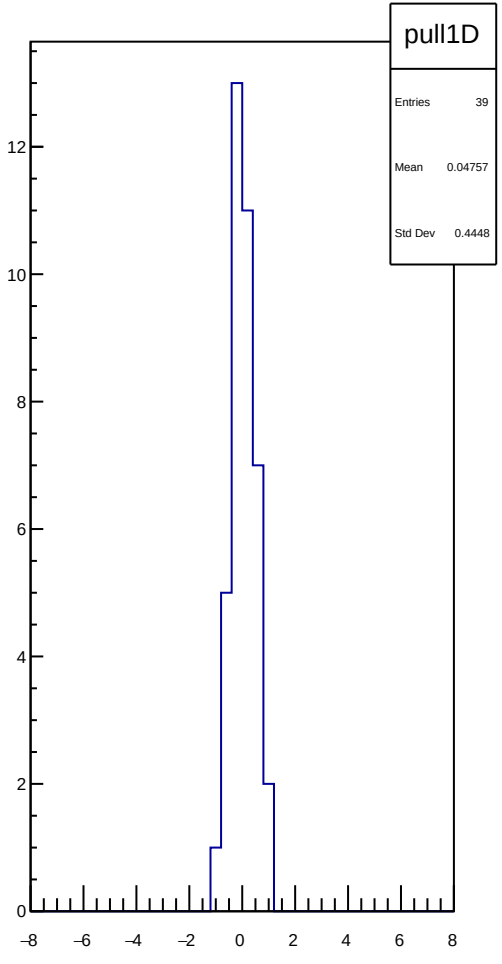

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 105.7 / 38
p0 −161.2 ± 0.3378
pull
Entries 39
Mean −111.1
Std Dev 0
pull1D
Entries 39
Mean 0.09396
Std Dev 1.644

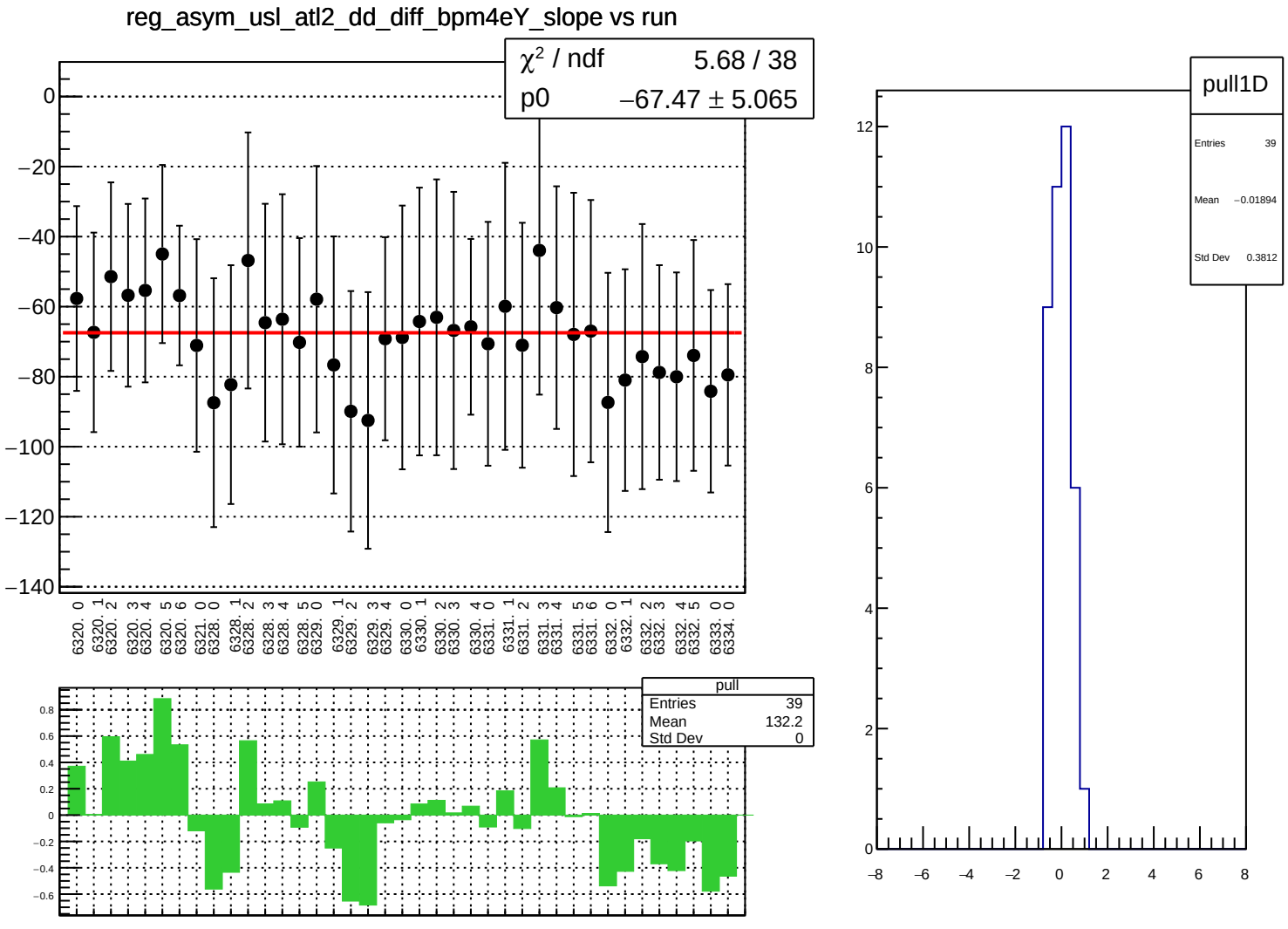

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.651 / 38
p0 231.8 ± 6.129
pull
Entries 39
Mean 62.48
Std Dev 0

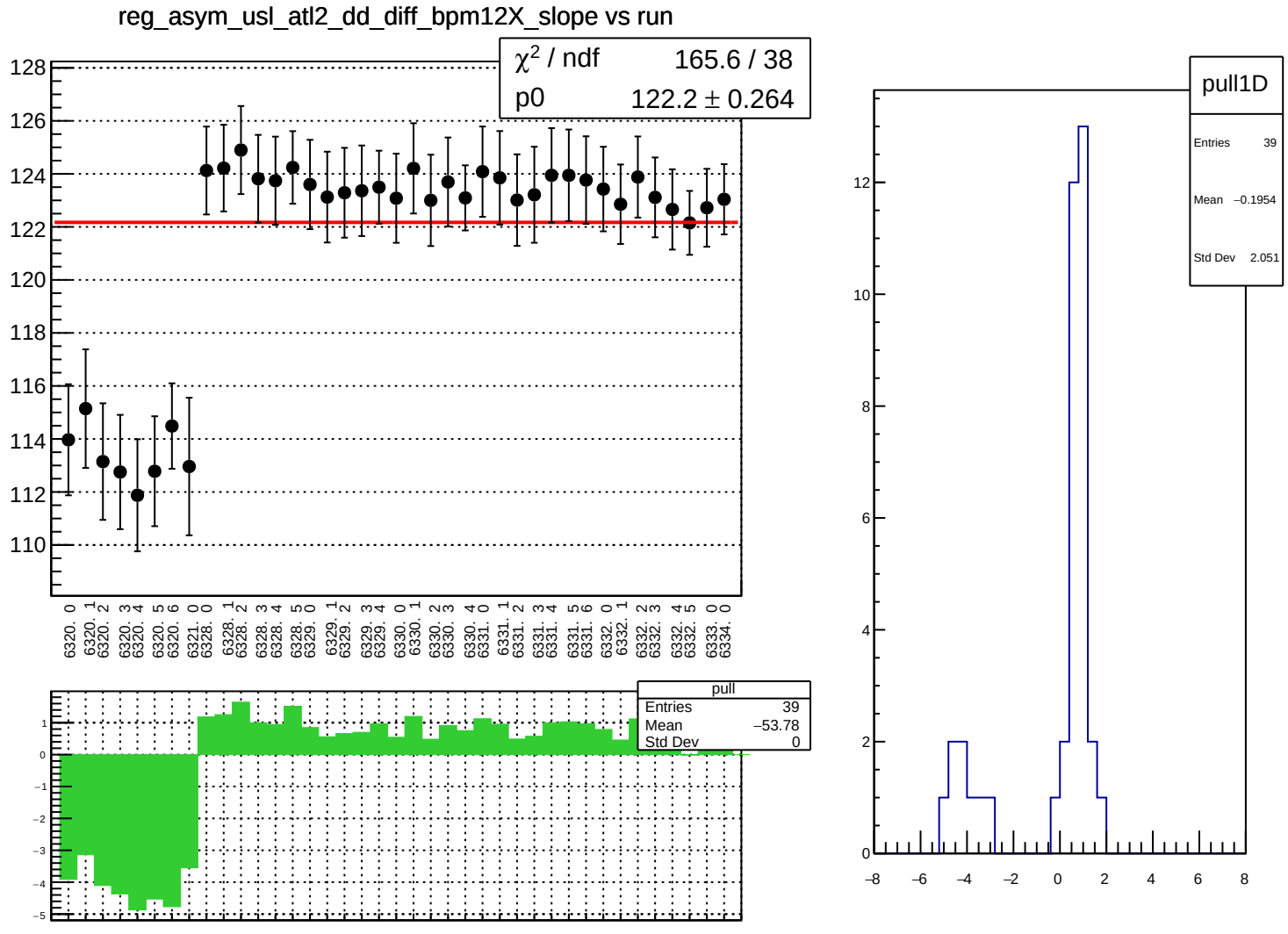

pull1D
Entries 39
Mean −0.04451
Std Dev 0.4407

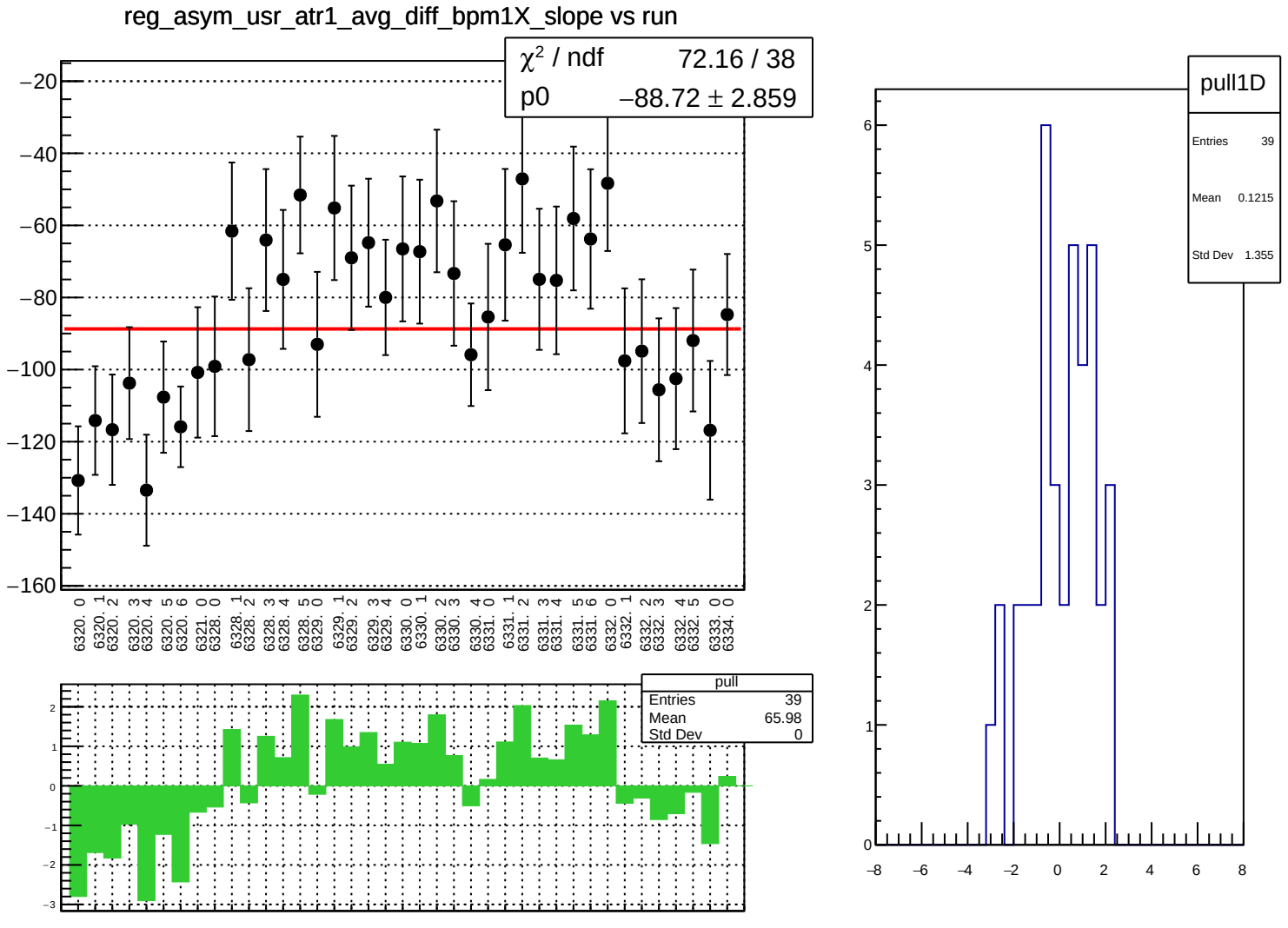

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.598 / 38
p0 2.277 ± 4.459
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 69.58
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.01378
Std Dev 0.3034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

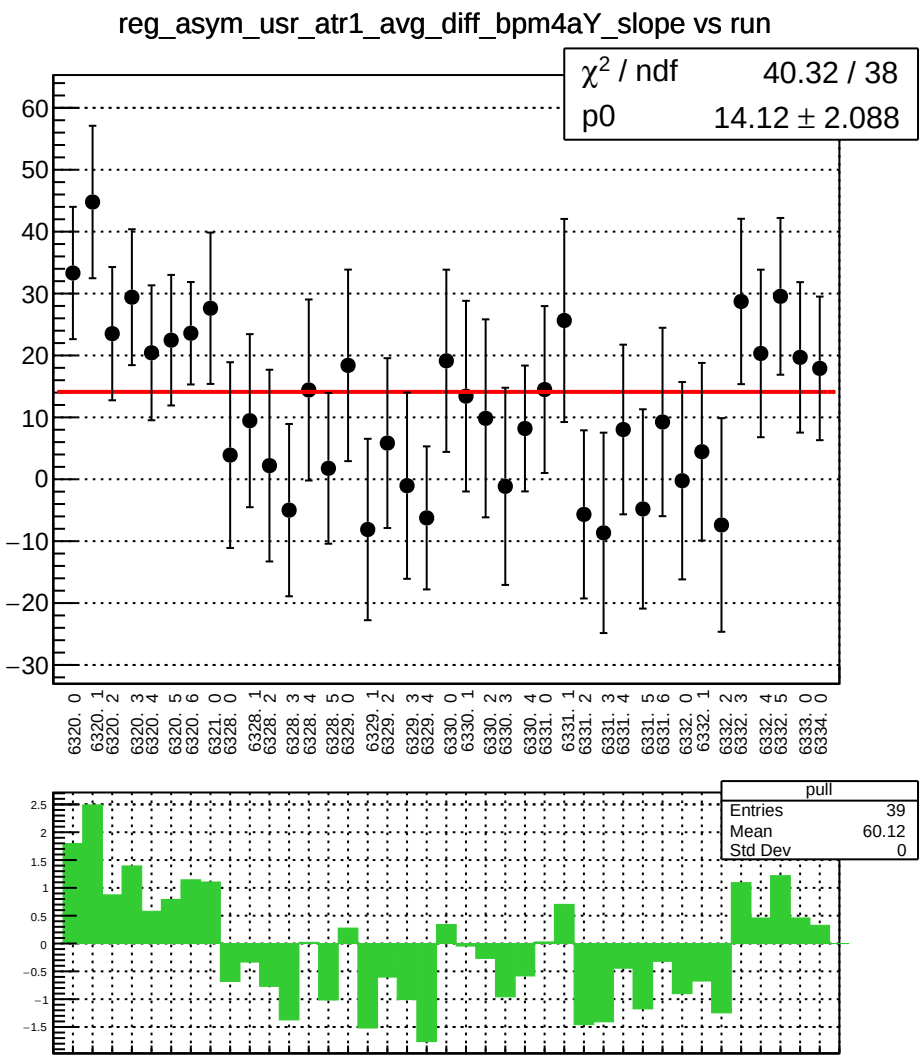

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.805 / 38
p0 −245.7 ± 6.394
pull
Entries 39
Mean 57.1
Std Dev 0

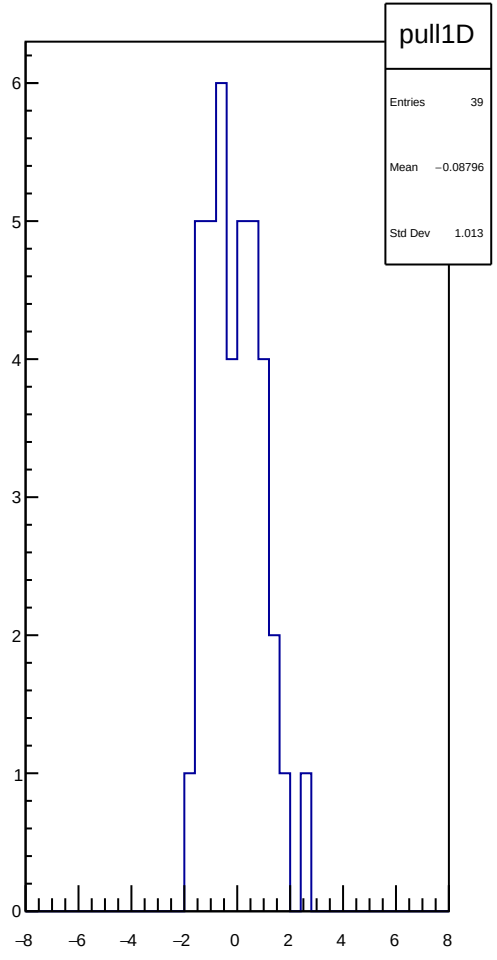

pull1D
Entries 39
Mean 0.04757
Std Dev 0.4448

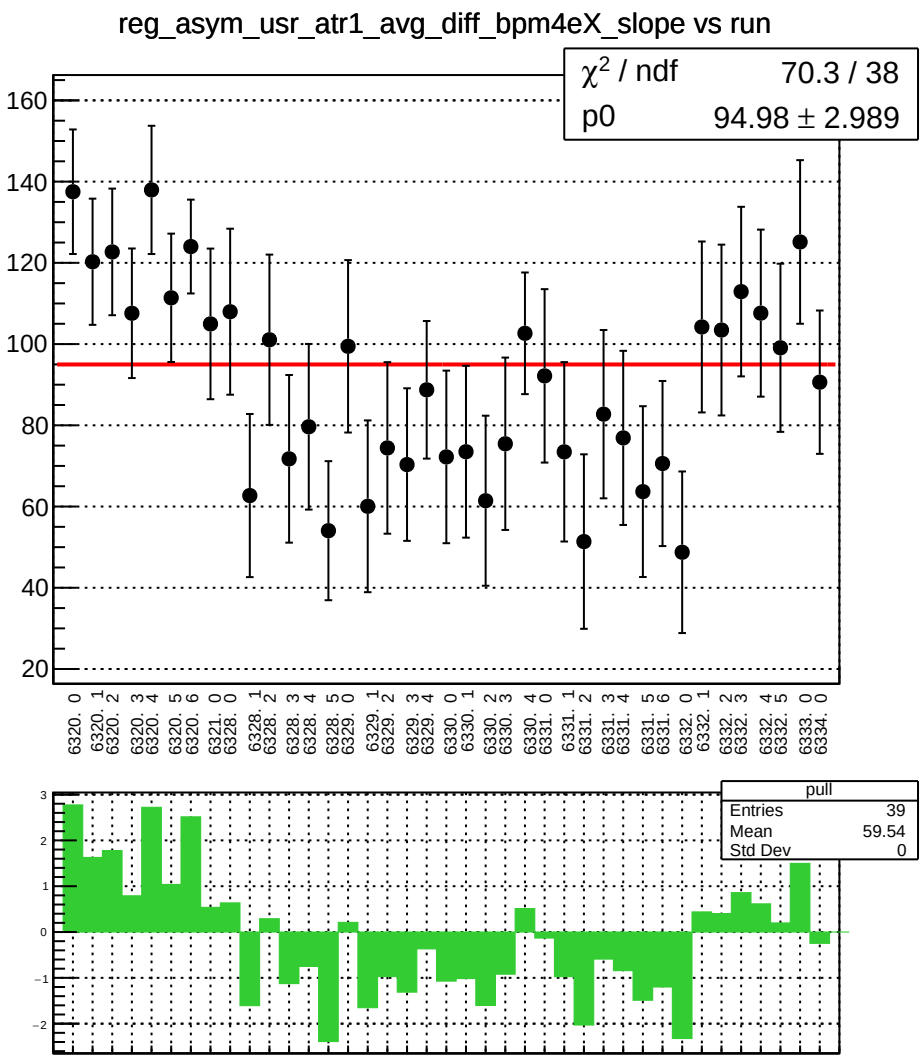

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.68 / 38
p0 −67.47 ± 5.065
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 132.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.01894
Std Dev 0.3812
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

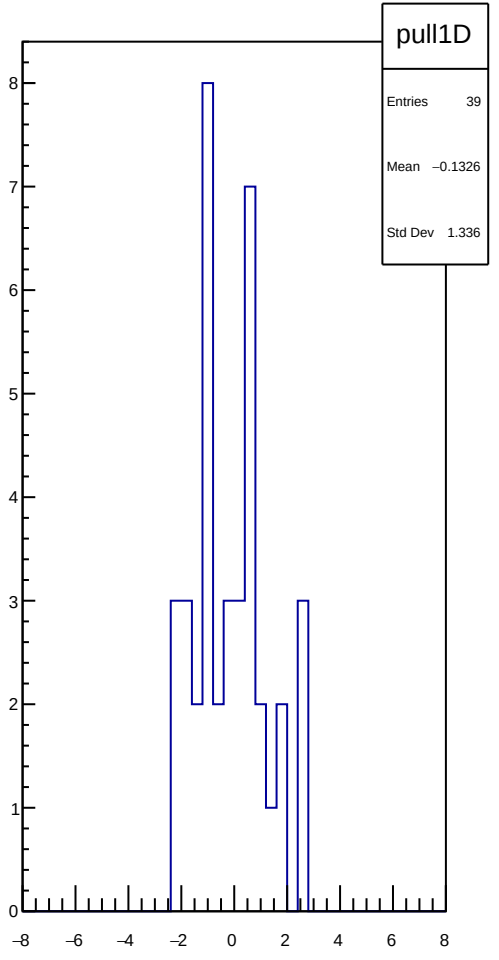

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 165.6 / 38
p0 122.2 ± 0.264
pull
Entries 39
Mean −53.78
Std Dev 0
pull1D
Entries 39
Mean −0.1954
Std Dev 2.051

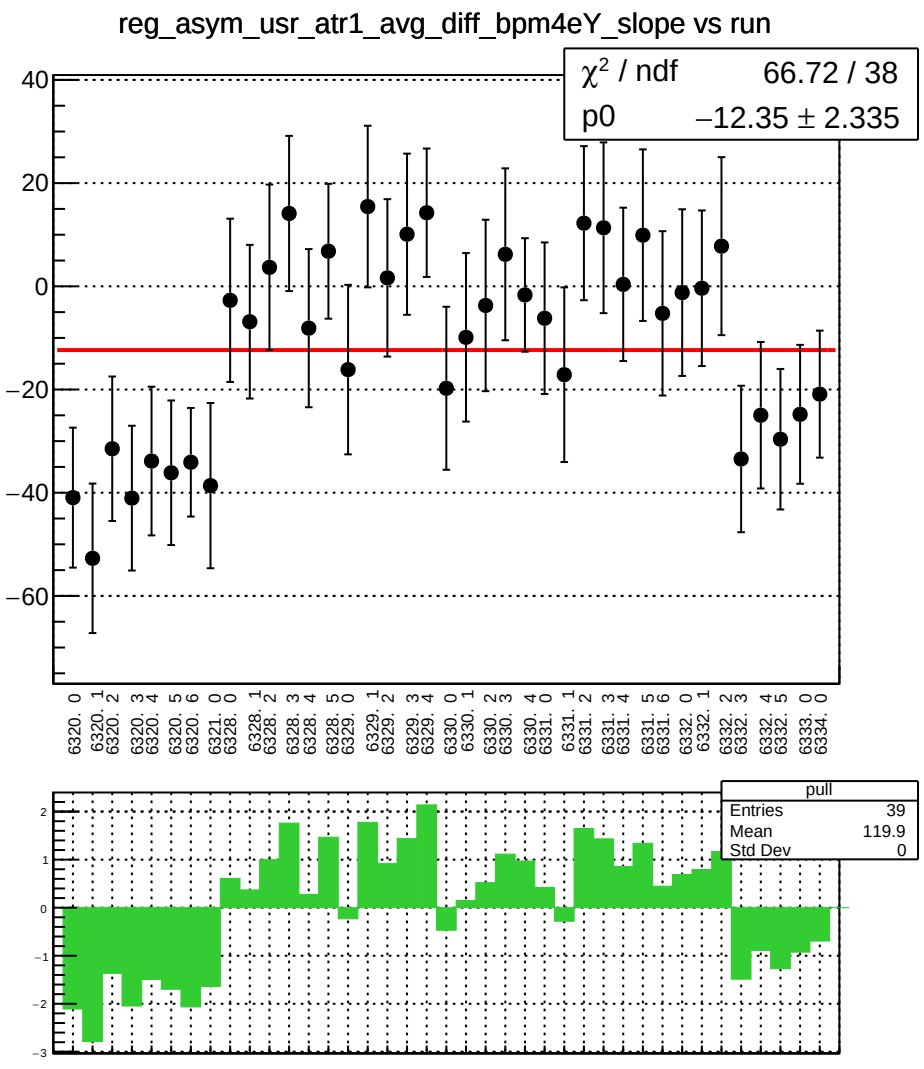

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 72.16 / 38
p0 −88.72 ± 2.859
pull
Entries 39
Mean 65.98
Std Dev 0
pull1D
Entries 39
Mean 0.1215
Std Dev 1.355

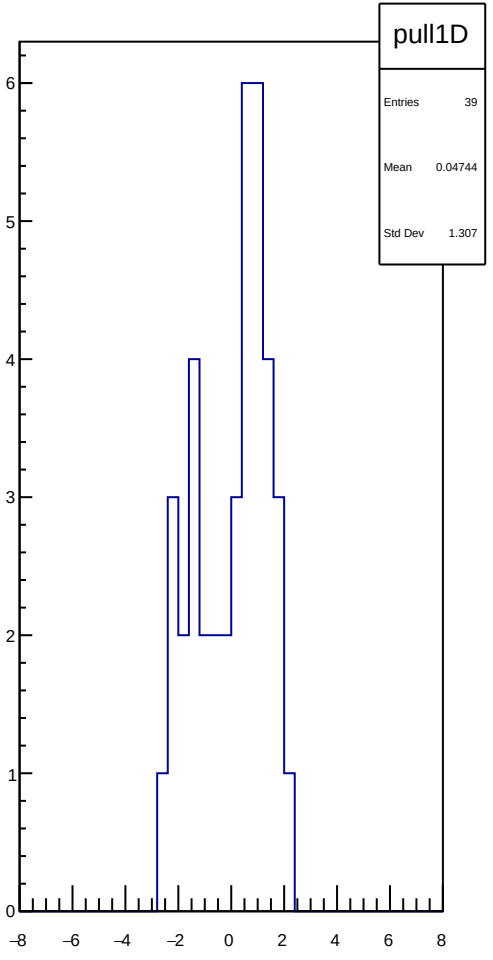

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.32 / 38
p0 14.12 ± 2.088
pull
Entries 39
Mean 60.12
Std Dev 0

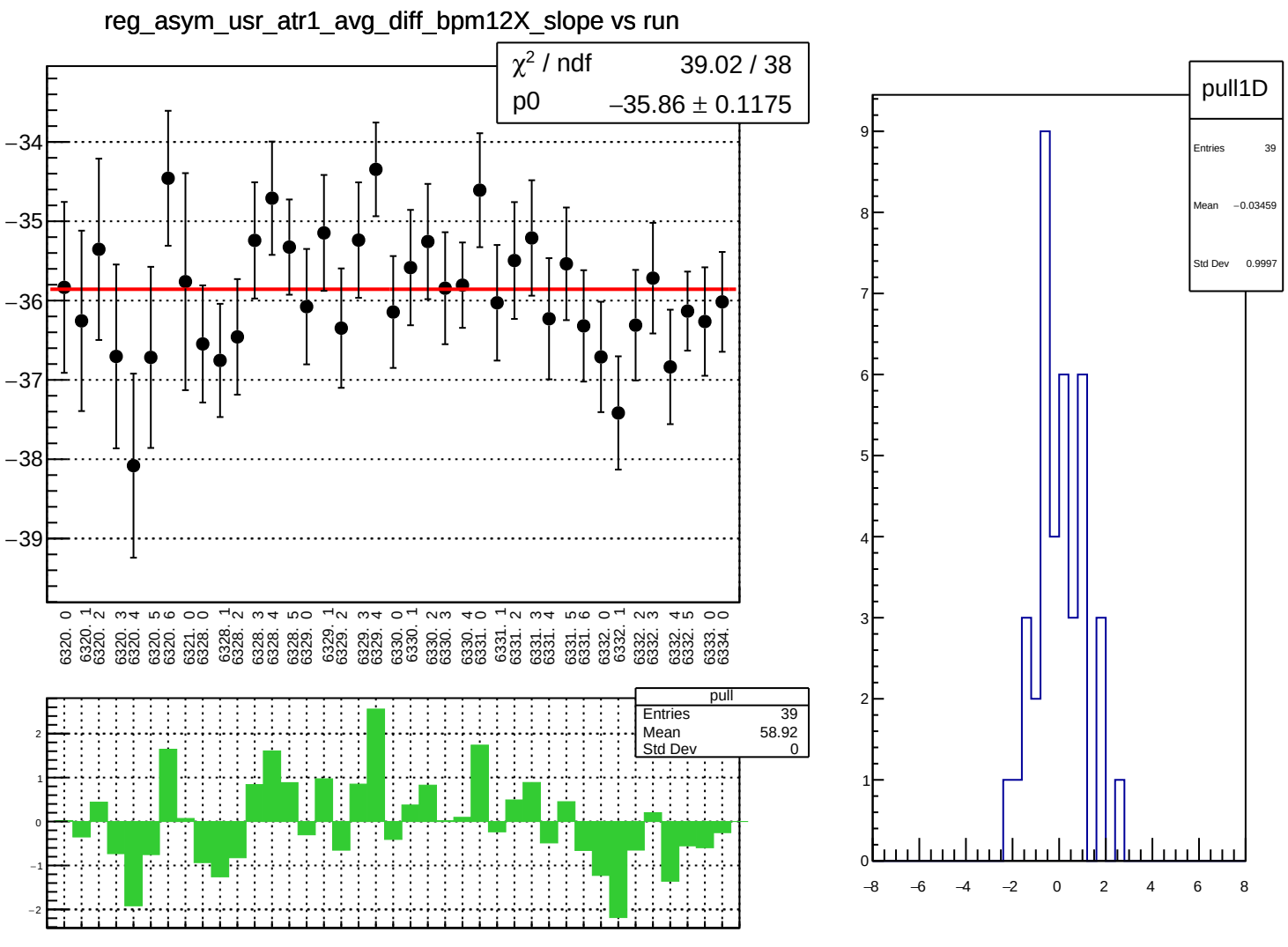

pull1D
Entries 39
Mean −0.08796
Std Dev 1.013

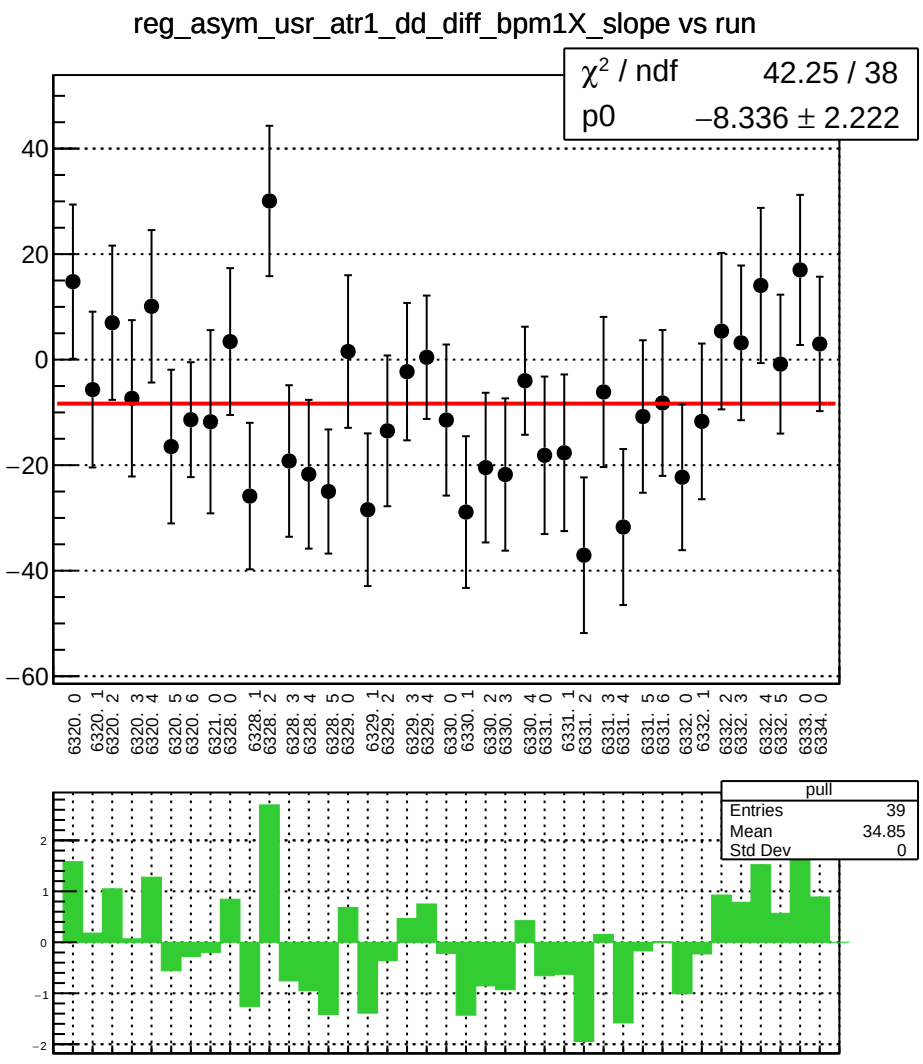

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.3 / 38
p0 94.98 ± 2.989
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 59.54
Std Dev 0
3
2
1
0
−1
−2

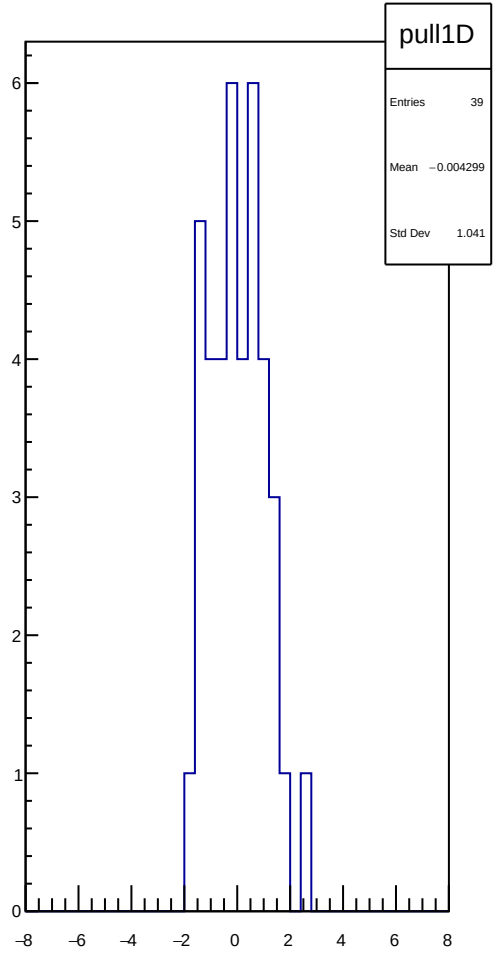

pull1D
Entries 39
Mean −0.1326
Std Dev 1.336
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

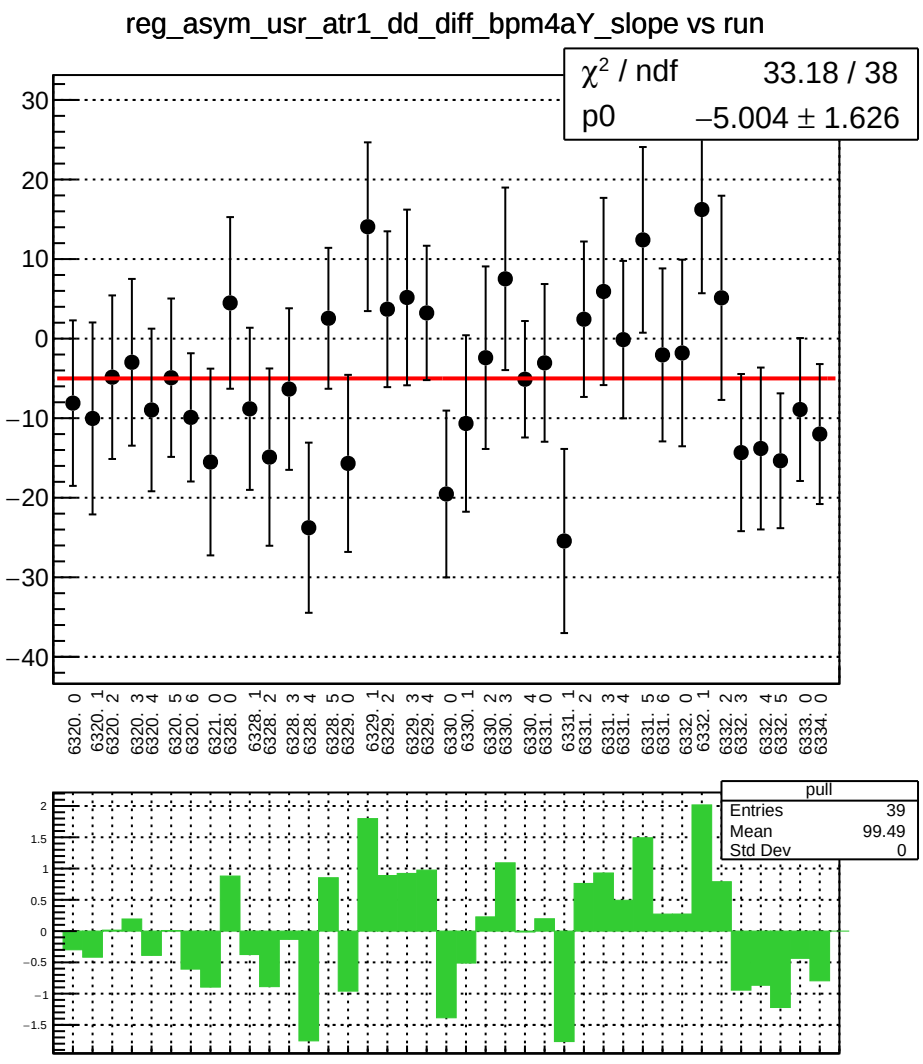

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.72 / 38
p0 −12.35 ± 2.335
pull
Entries 39
Mean 119.9
Std Dev 0

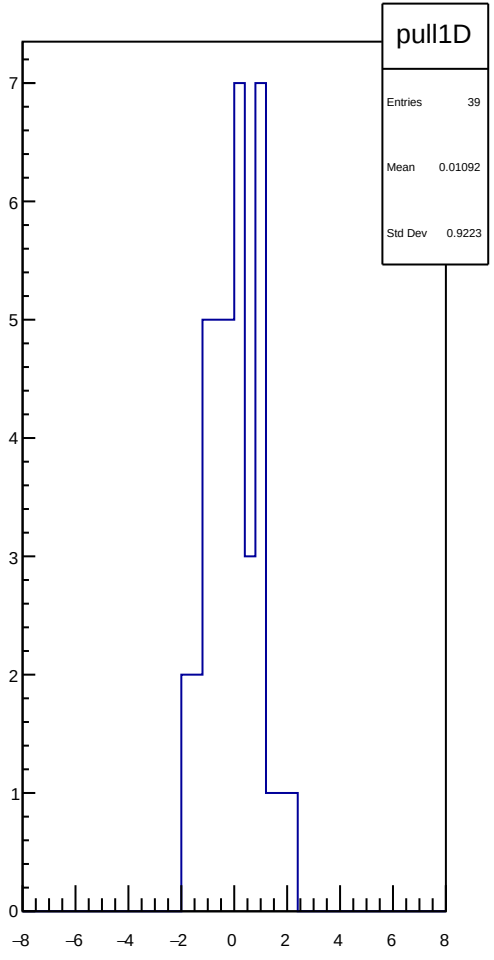

pull1D
Entries 39
Mean 0.04744
Std Dev 1.307

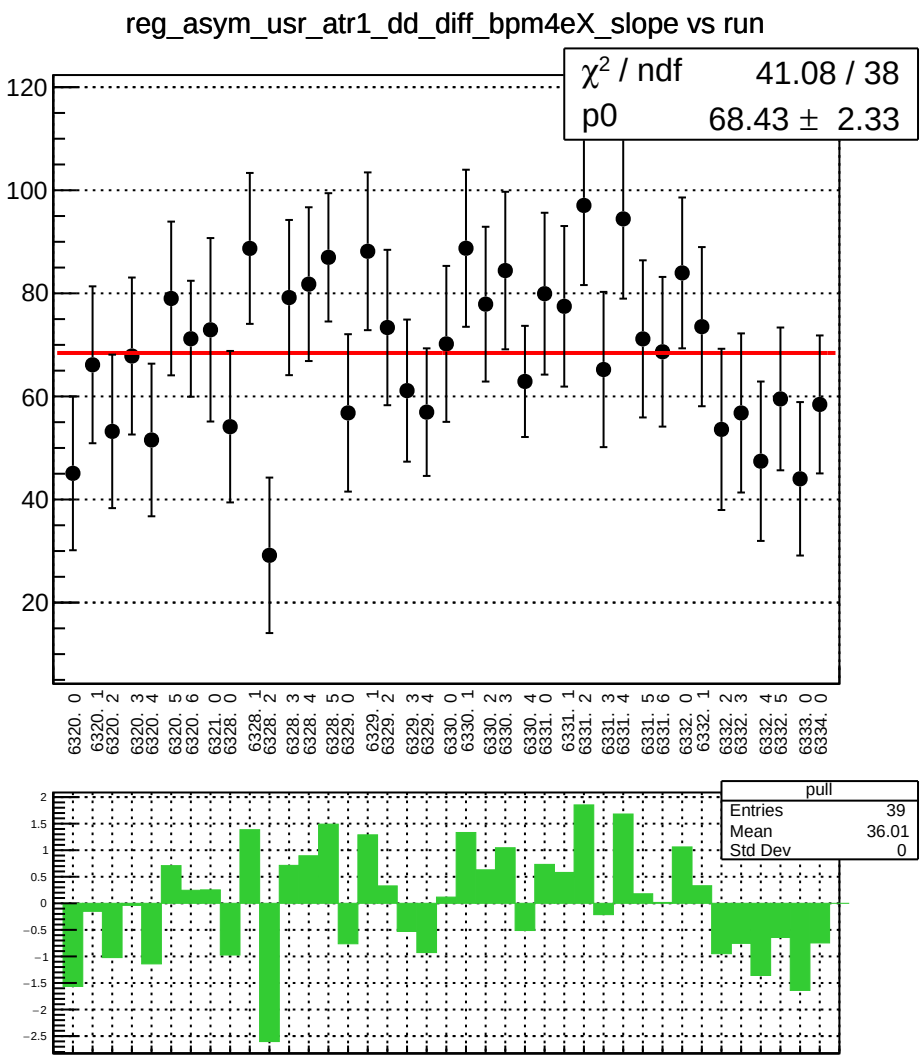

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 39.02 / 38
p0 −35.86 ± 0.1175
−34
−35
−36
−37
−38
−39
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 58.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03459
Std Dev 0.9997
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

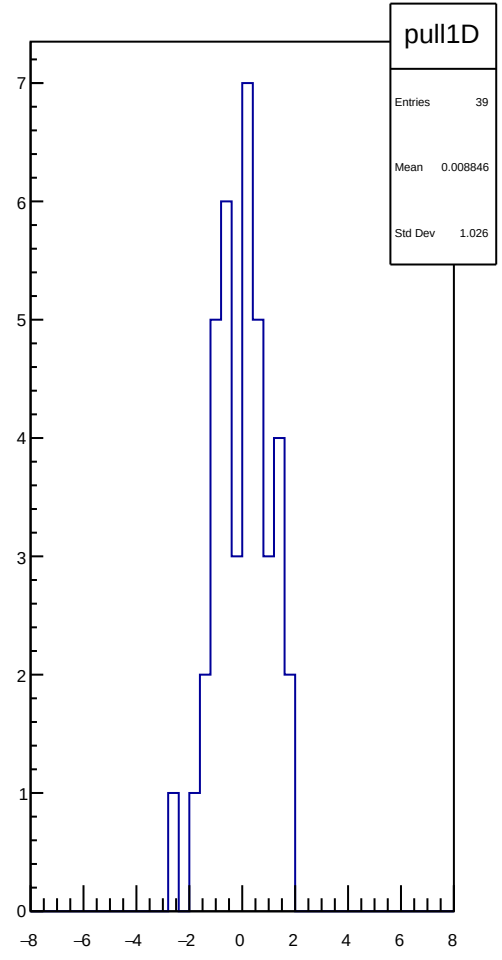

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 42.25 / 38
p0 −8.336 ± 2.222
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 34.85
Std Dev 0
2
1
0
−1
−2

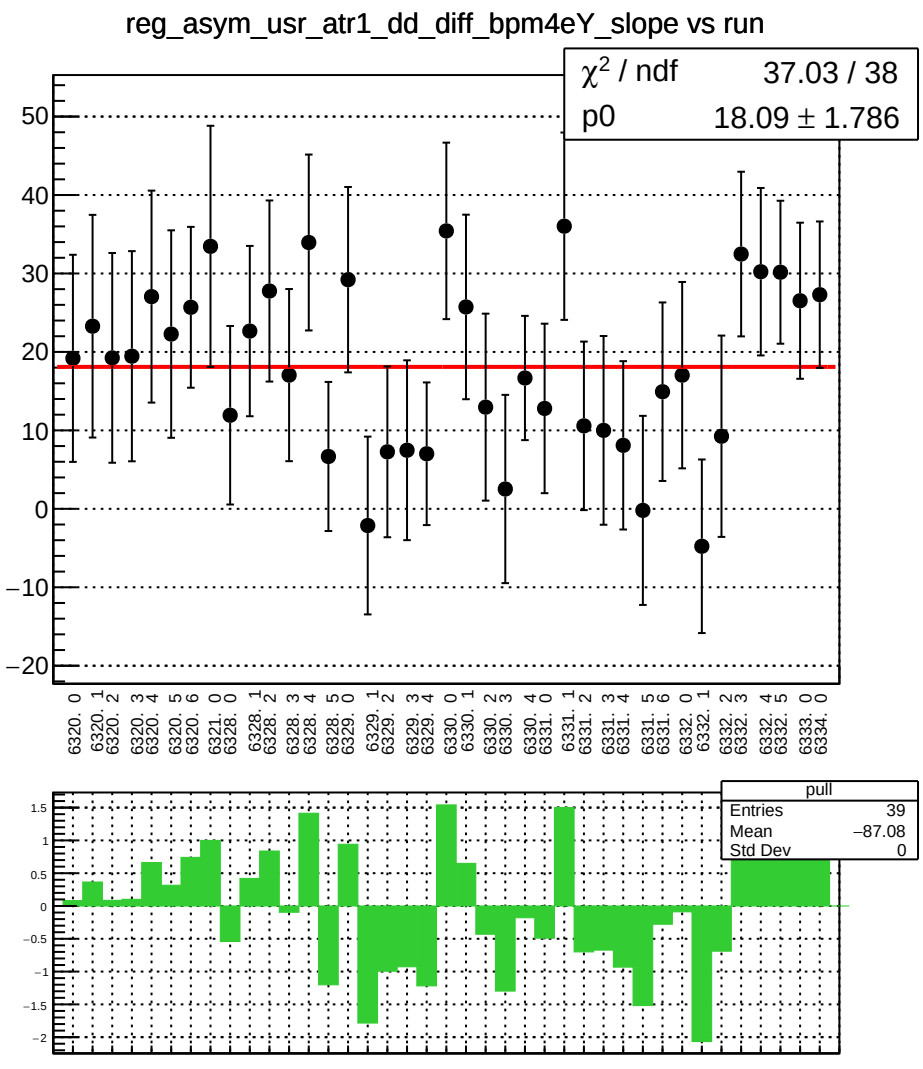

pull1D
Entries 39
Mean −0.004299
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

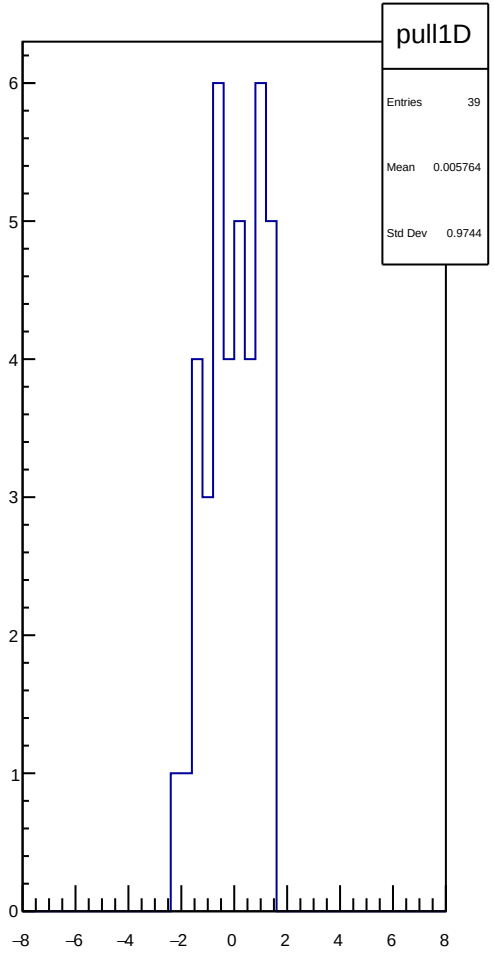

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.18 / 38
p0 −5.004 ± 1.626
pull
Entries 39
Mean 99.49
Std Dev 0

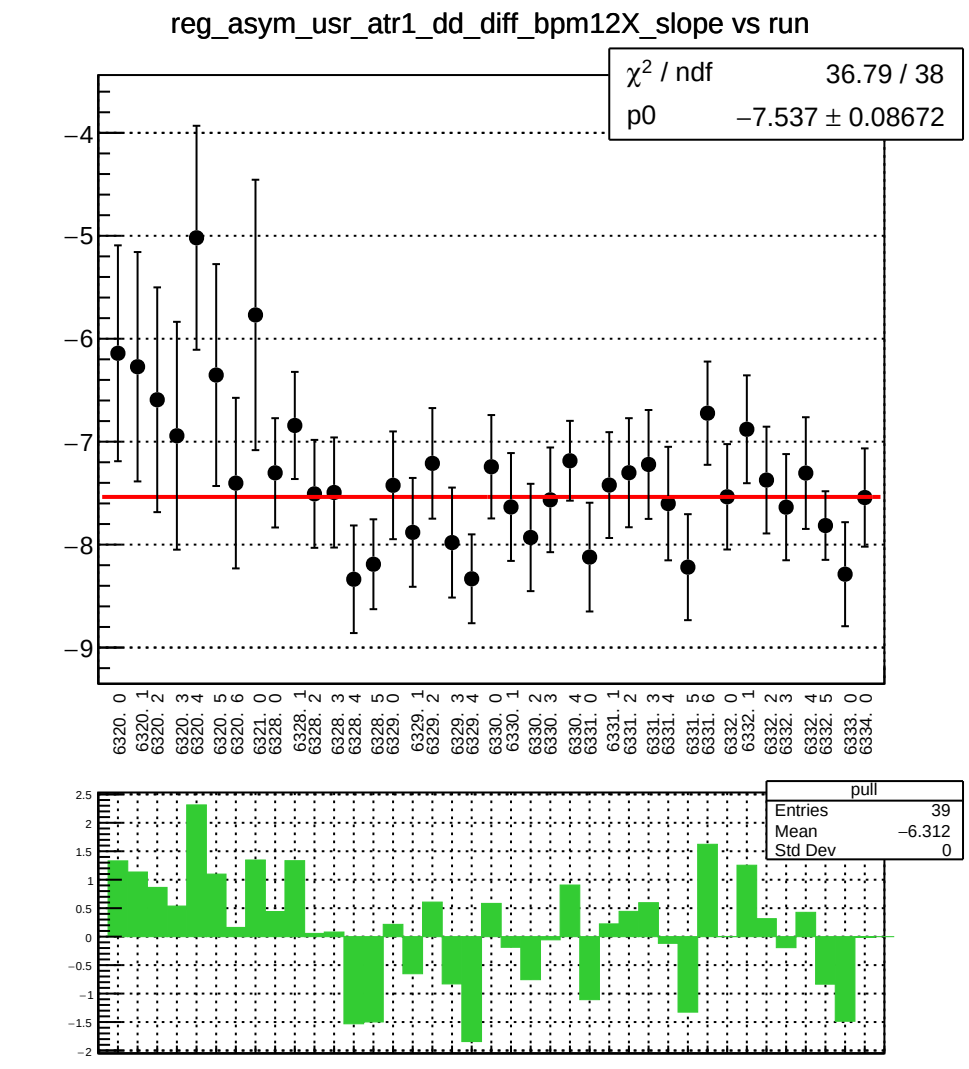

pull1D
Entries 39
Mean 0.01092
Std Dev 0.9223

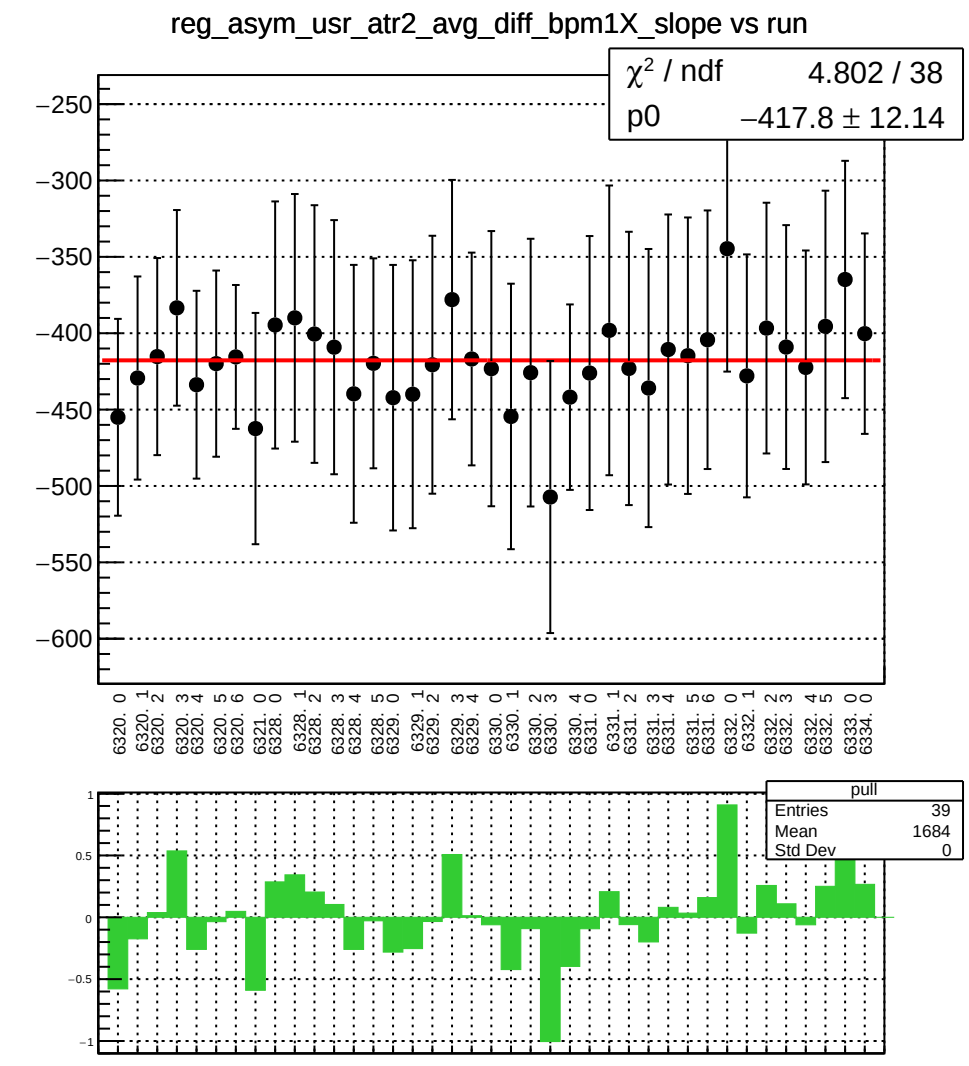

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.08 / 38
p0 68.43 ± 2.33
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 36.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

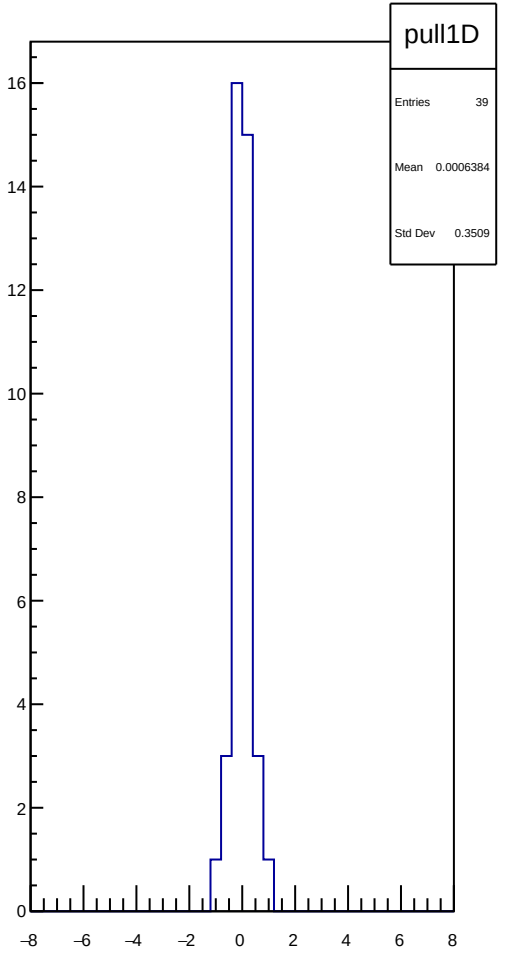

pull1D
Entries 39
Mean 0.008846
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

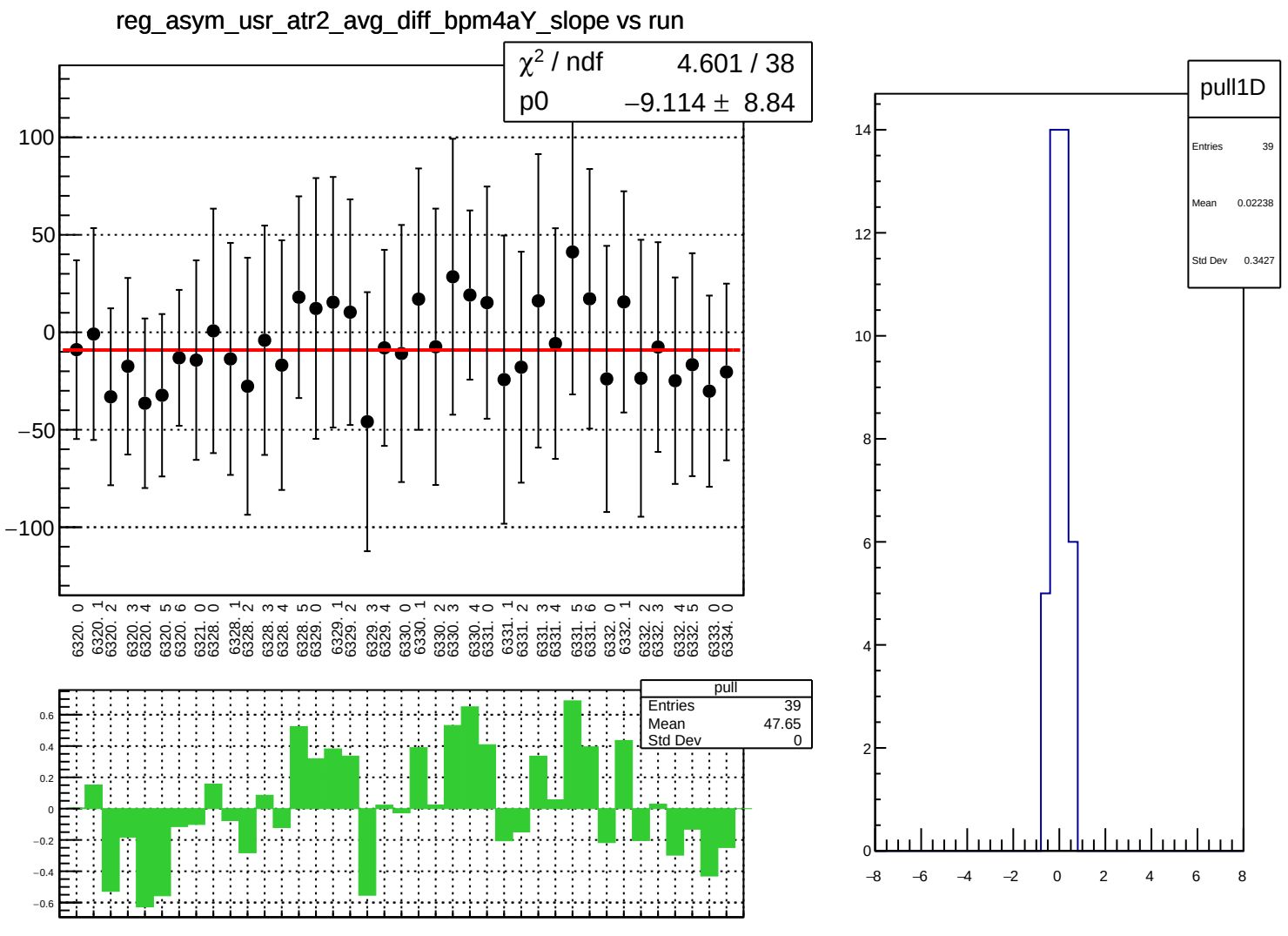

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.03 / 38
p0 18.09 ± 1.786
pull
Entries 39
Mean −87.08
Std Dev 0

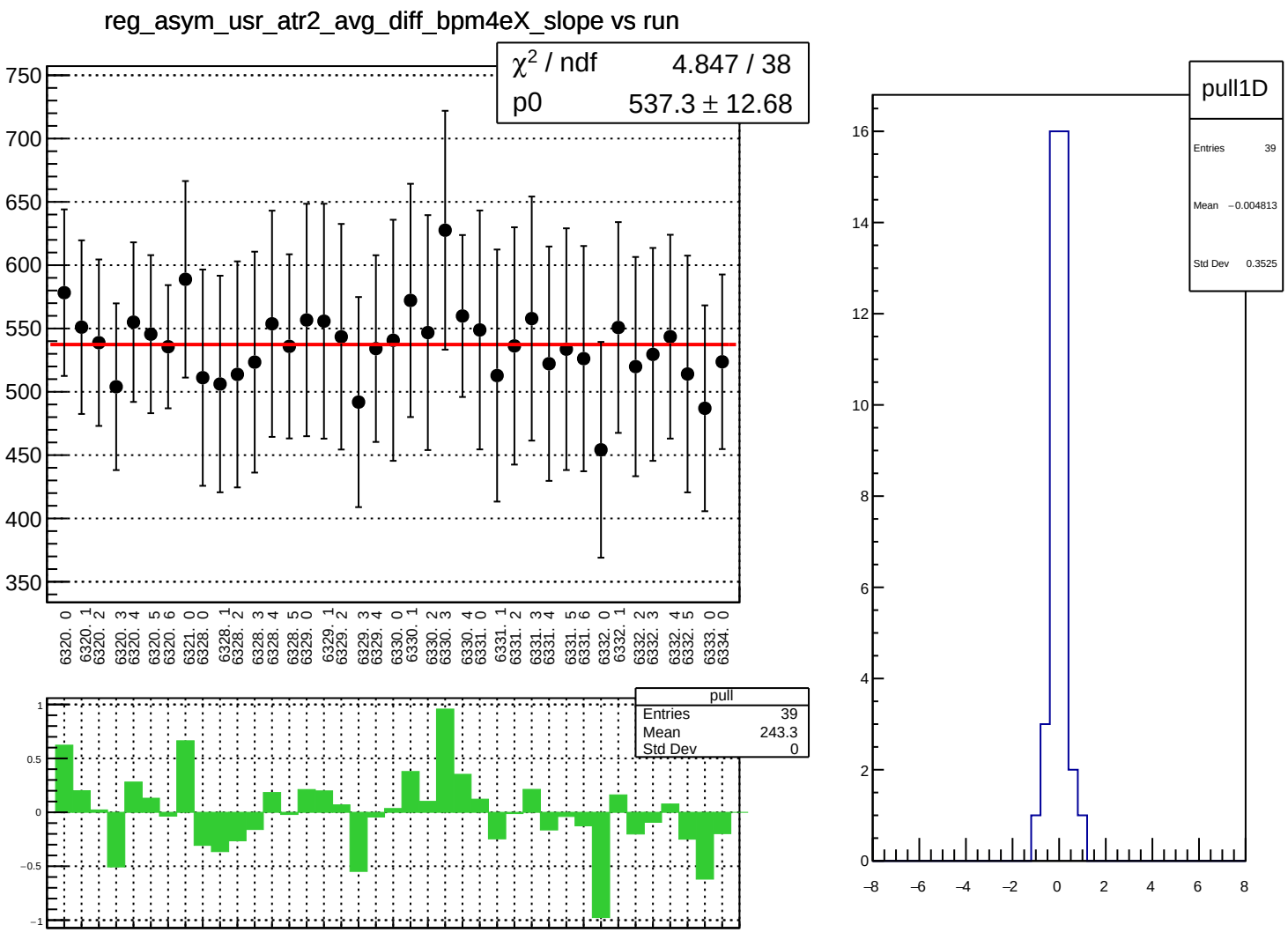

pull1D
Entries 39
Mean 0.005764
Std Dev 0.9744

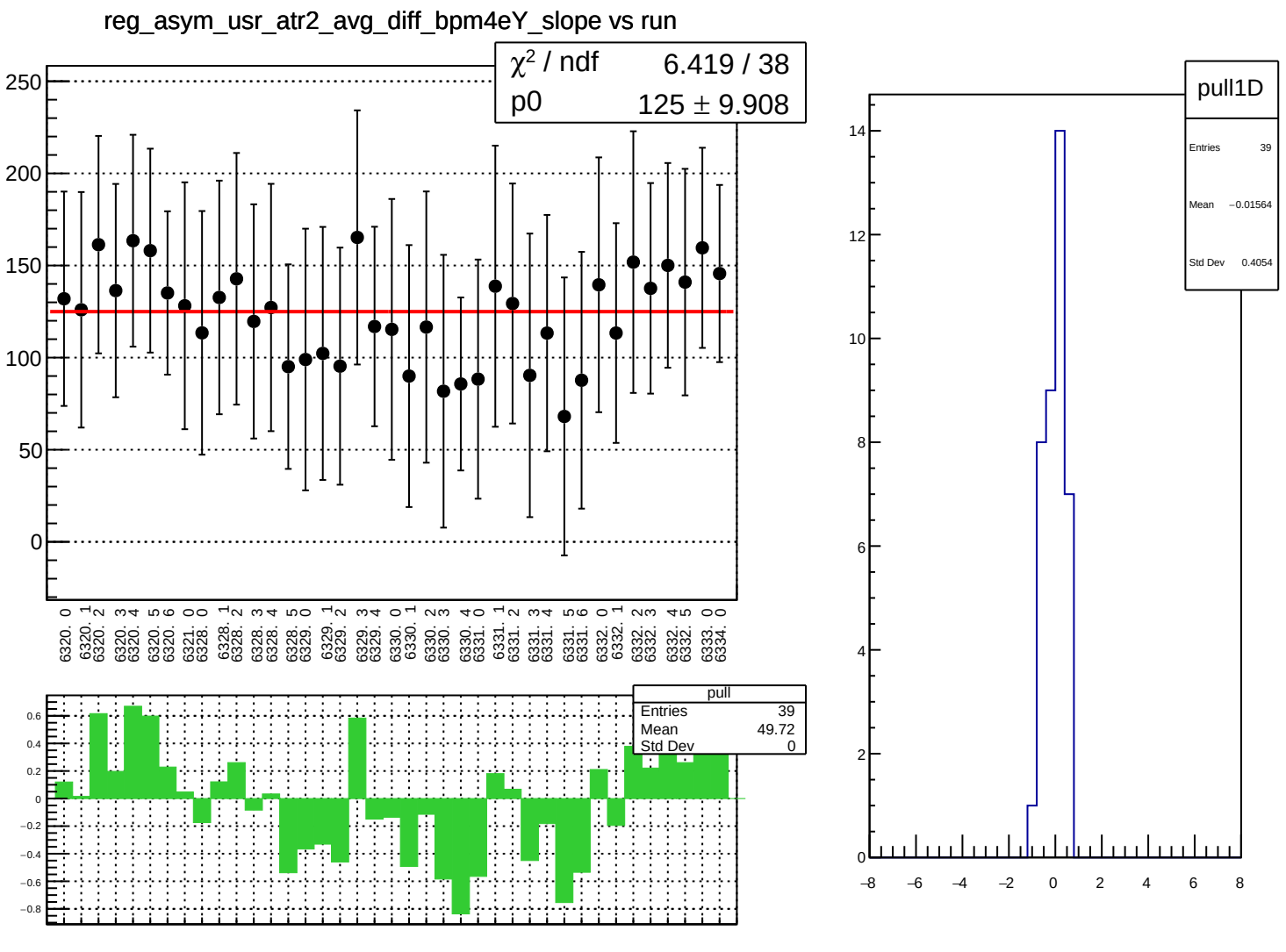

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 36.79 / 38
p0 −7.537 ± 0.08672
pull
Entries 39
Mean −6.312
Std Dev 0
pull1D
Entries 39
Mean 0.1403
Std Dev 0.961

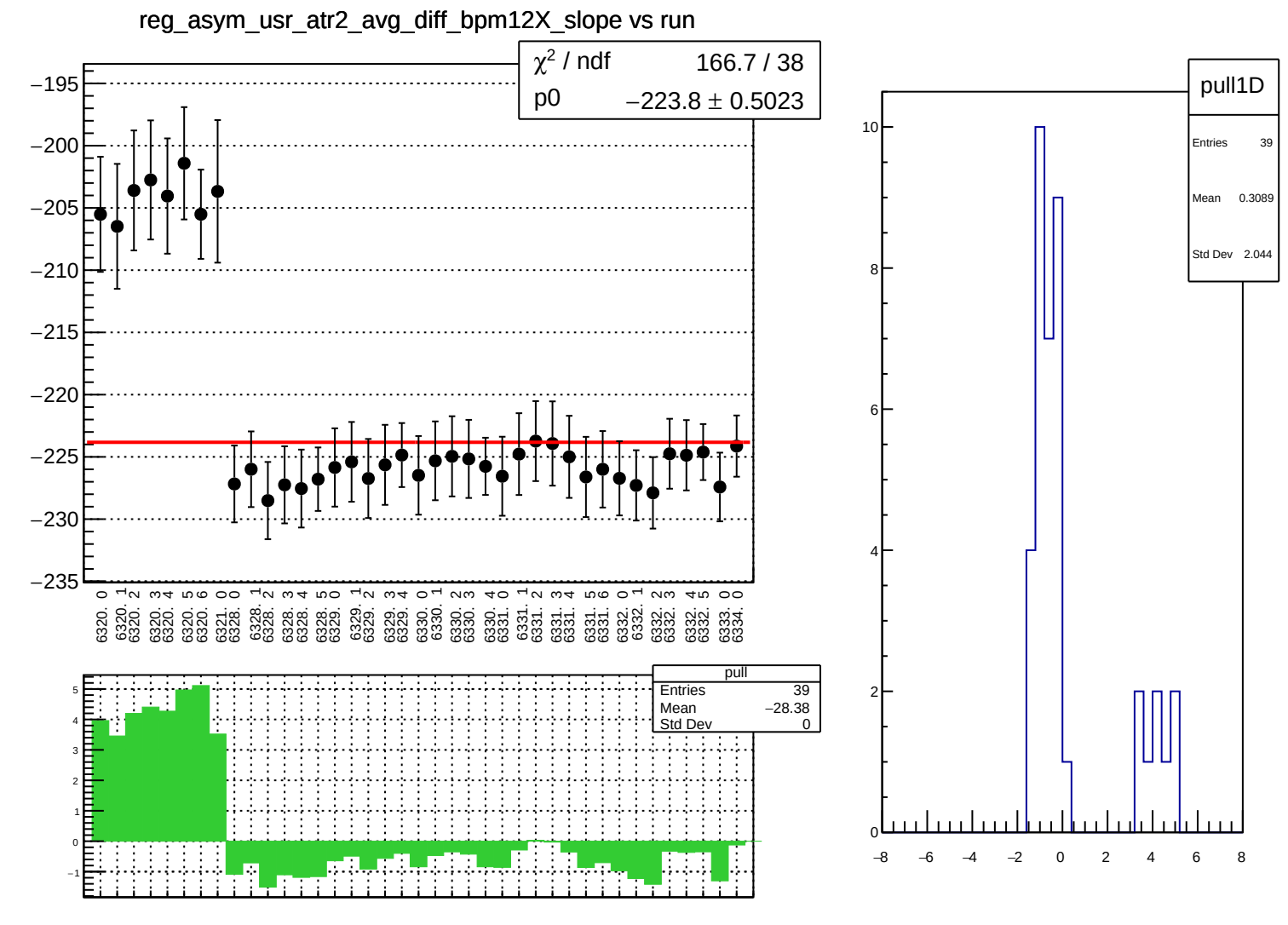

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.802 / 38
p0 −417.8 ± 12.14
−250
−300
−350
−400
−450
−500
−550
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1684
Std Dev 0
1
0.5
0
−0.5
−1

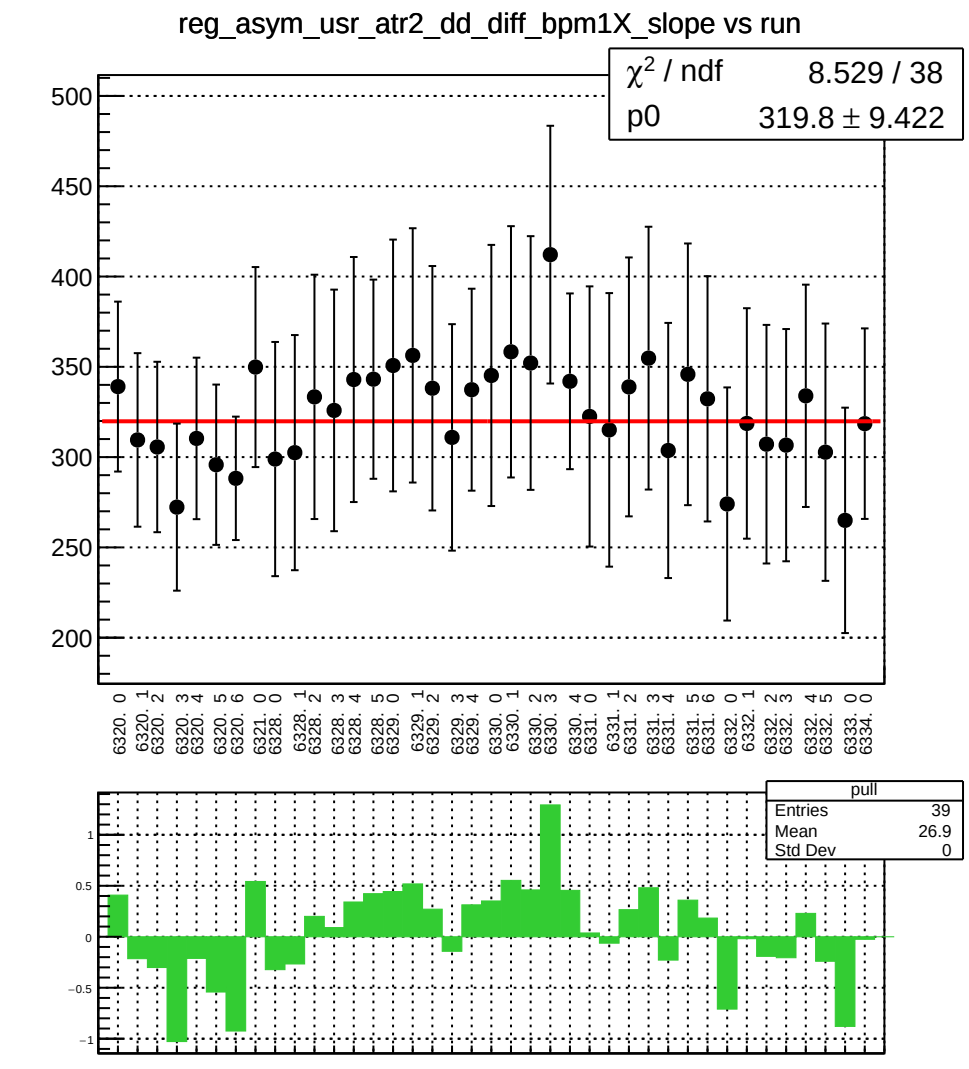

pull1D
Entries 39
Mean 0.0006384
Std Dev 0.3509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

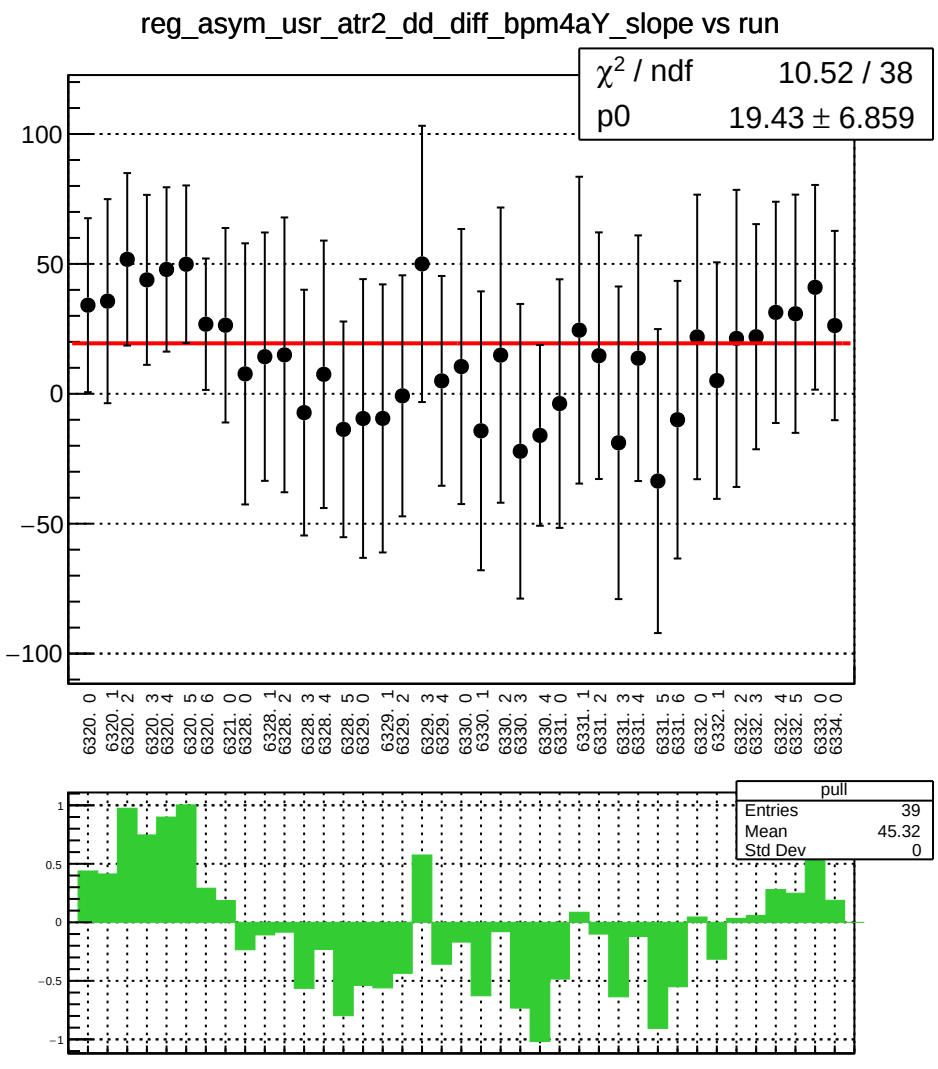

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.601 / 38
p0 −9.114 ± 8.84
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 47.65
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean 0.02238
Std Dev 0.3427
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

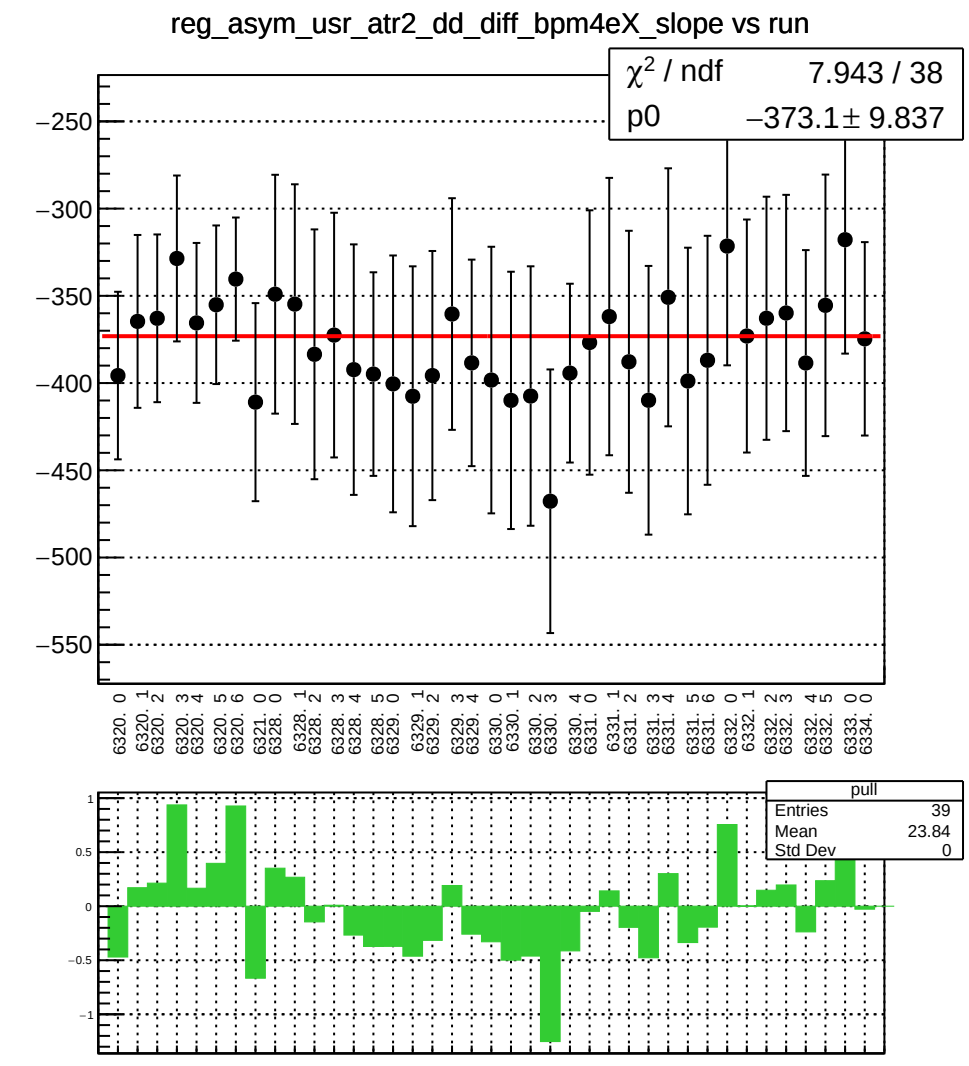

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.847 / 38
p0 537.3 ± 12.68
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 243.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.004813
Std Dev 0.3525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

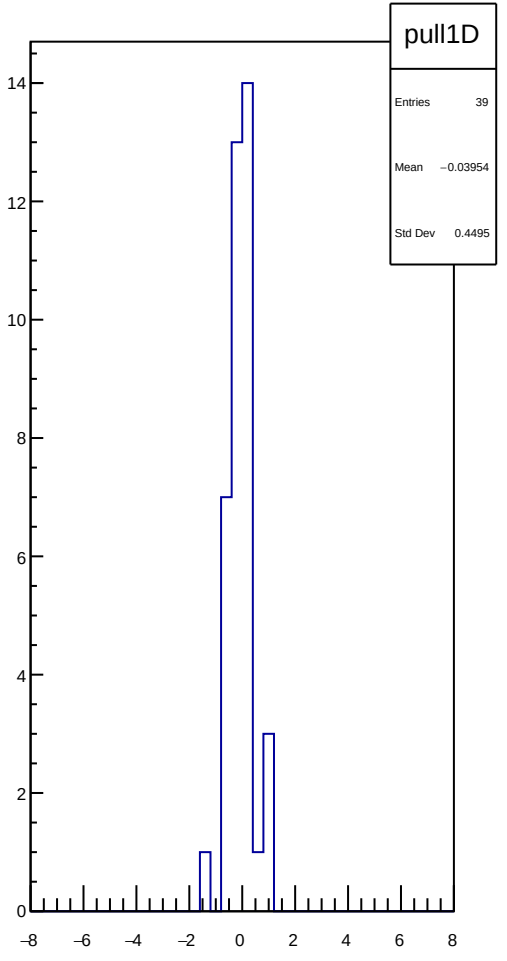

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.419 / 38
p0 125 ± 9.908
250
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 49.72
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.01564
Std Dev 0.4054
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 166.7 / 38
p0 −223.8 ± 0.5023
pull
Entries 39
Mean −28.38
Std Dev 0
pull1D
Entries 39
Mean 0.3089
Std Dev 2.044

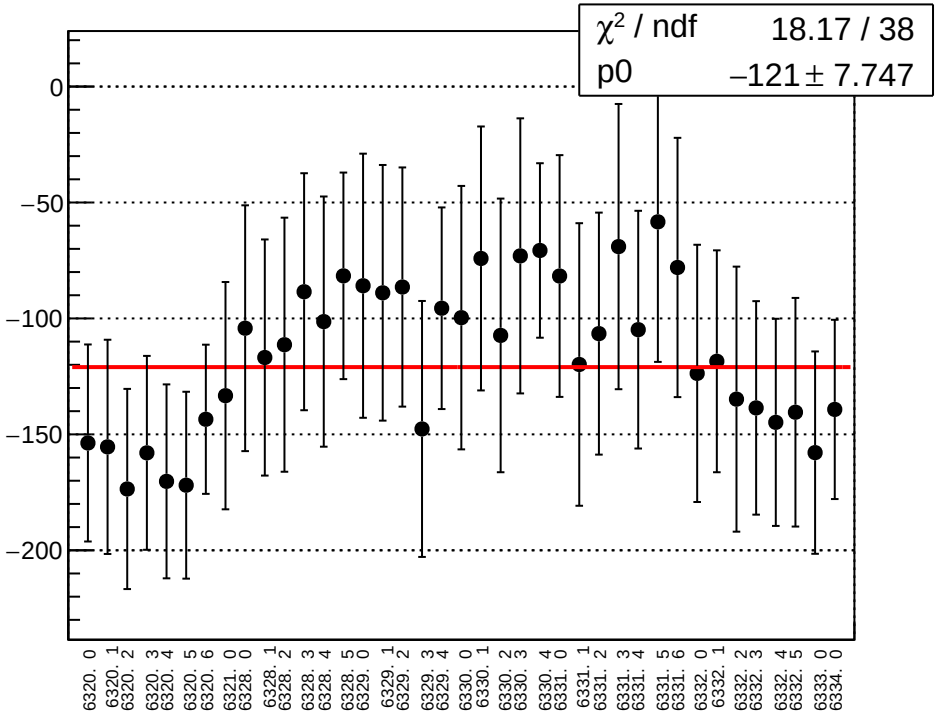

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.529 / 38
p0 319.8 ± 9.422
500
450
400
350
300
250
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 26.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.04362
Std Dev 0.4656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

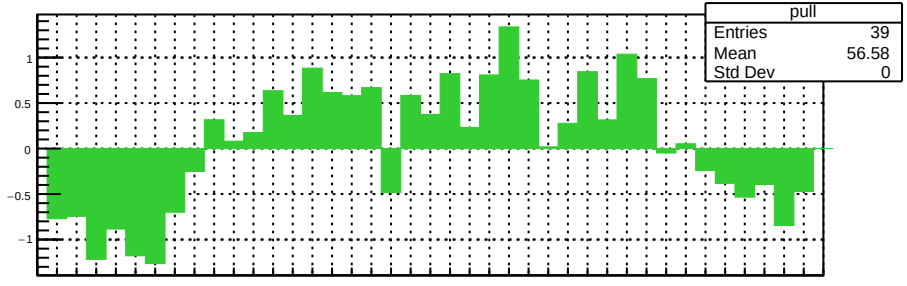

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.52 / 38
p0 19.43 ± 6.859
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 45.32
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.06764
Std Dev 0.5149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

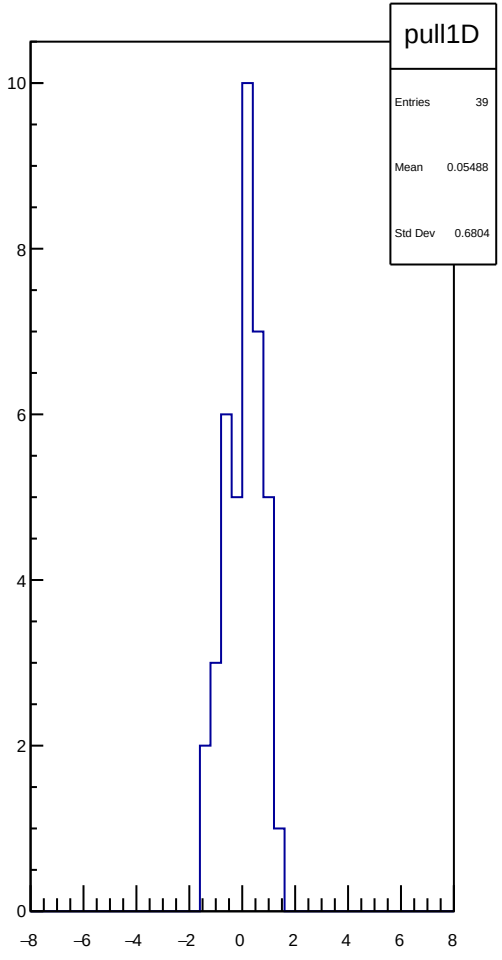

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.943 / 38
p0 −373.1± 9.837
−250
−300
−350
−400
−450
−500
−550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 23.84
Std Dev 0
1
0.5
0
−0.5
−1

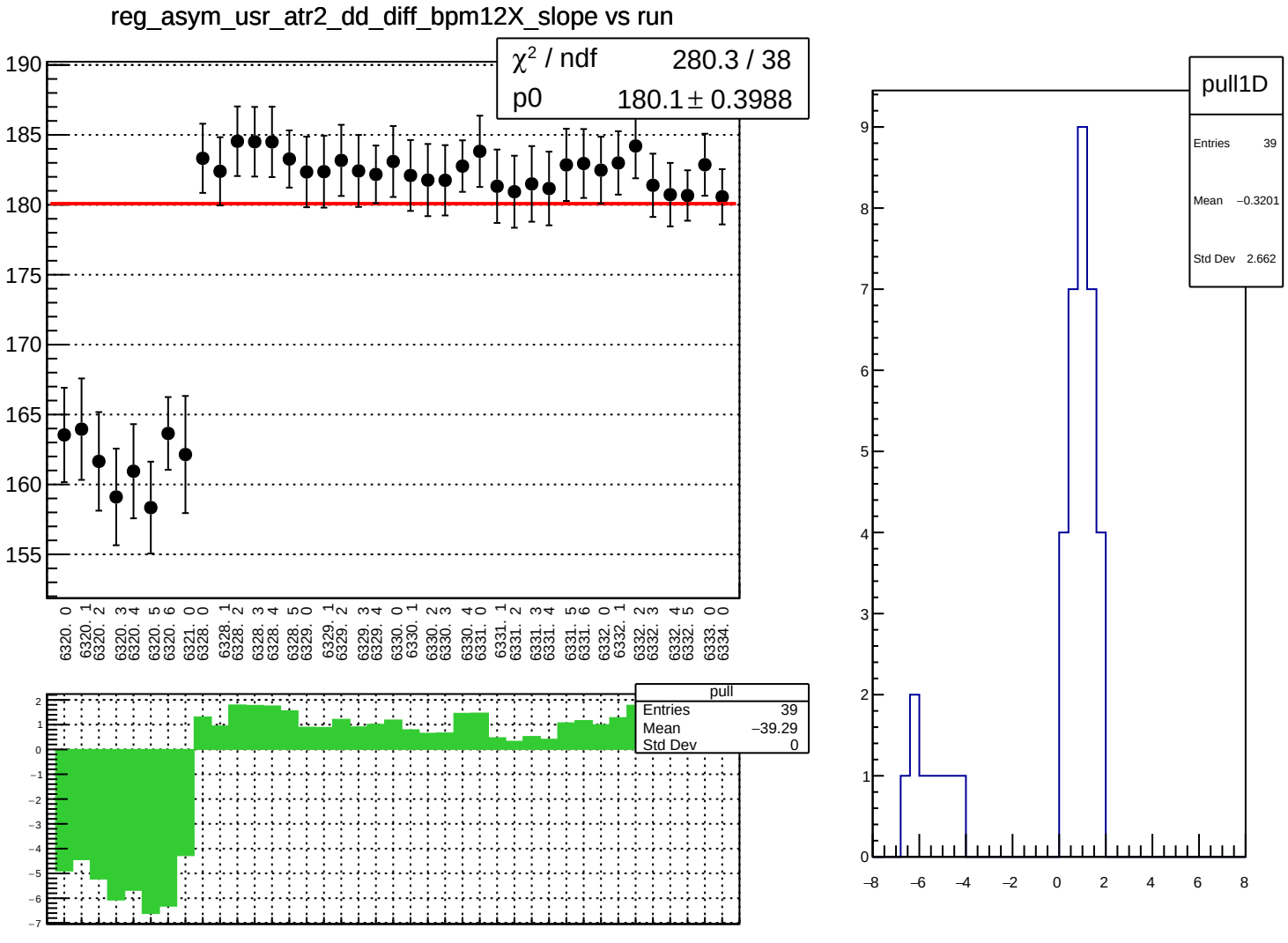

pull1D
Entries 39
Mean −0.03954
Std Dev 0.4495
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

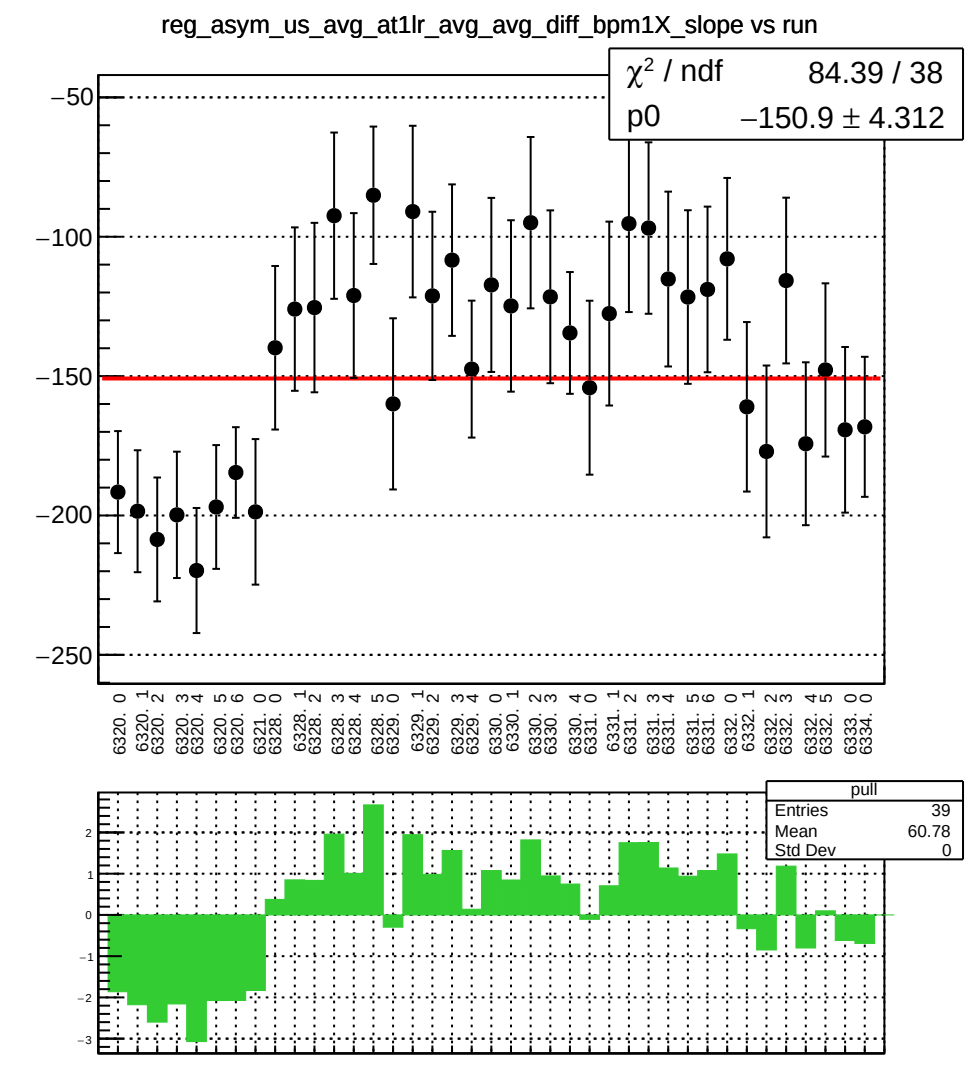
reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run

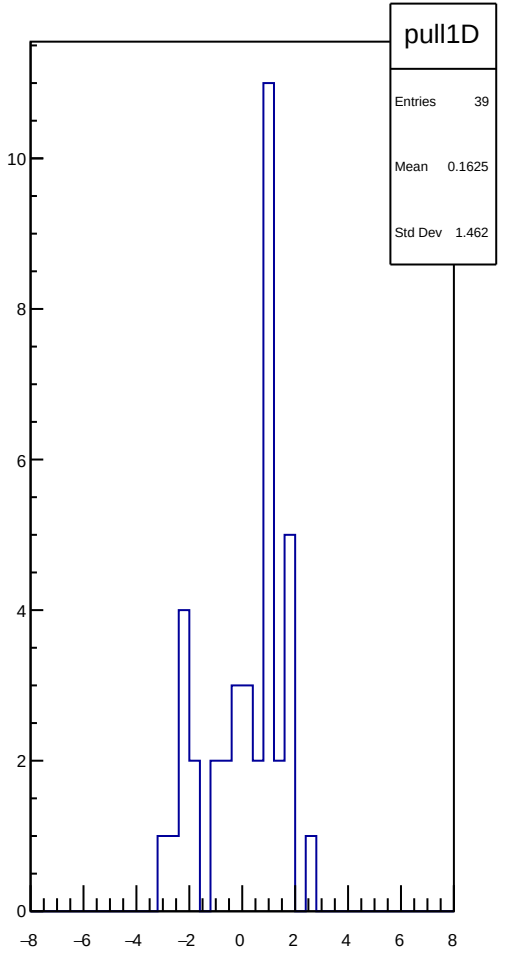


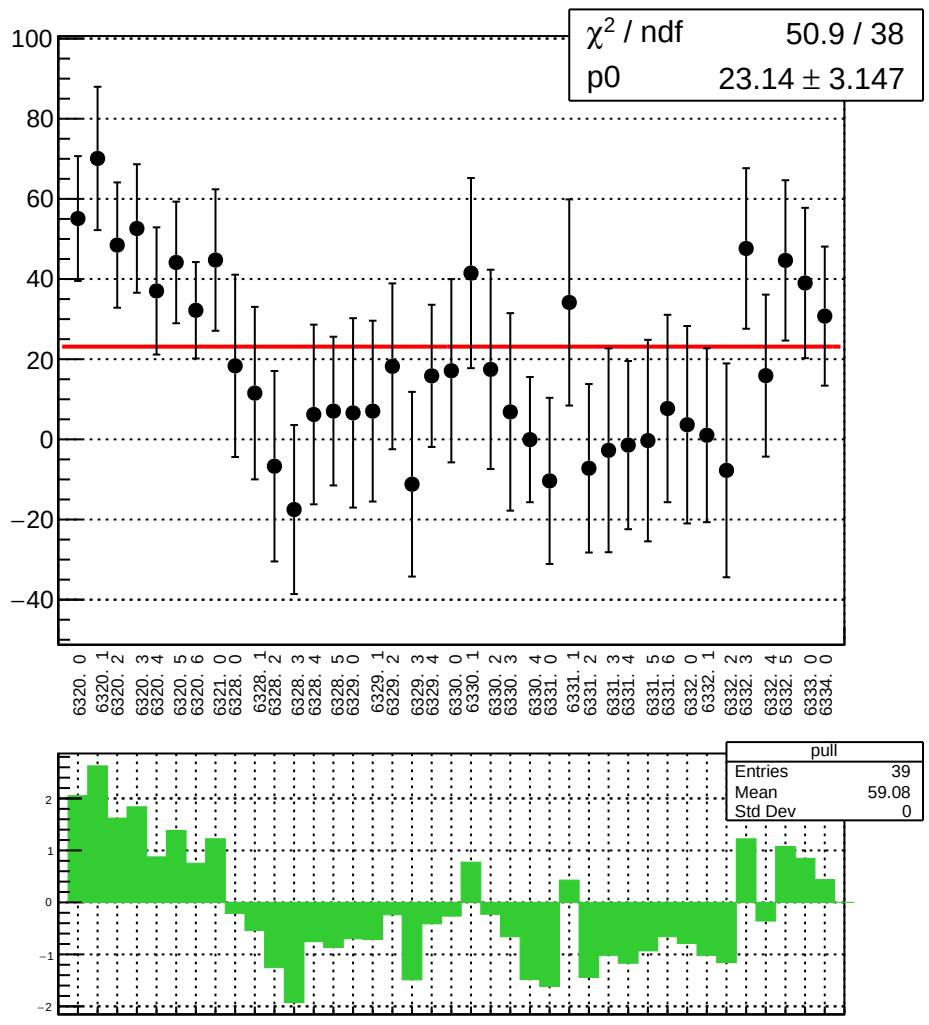


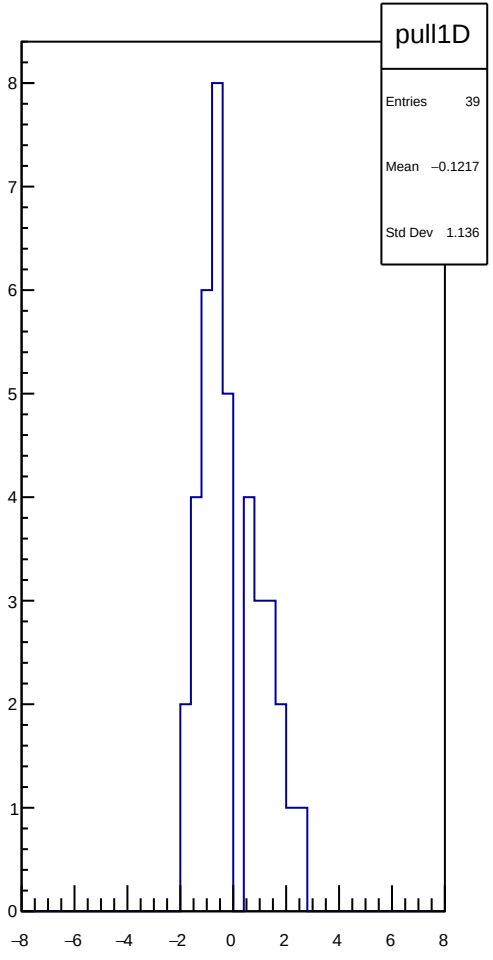


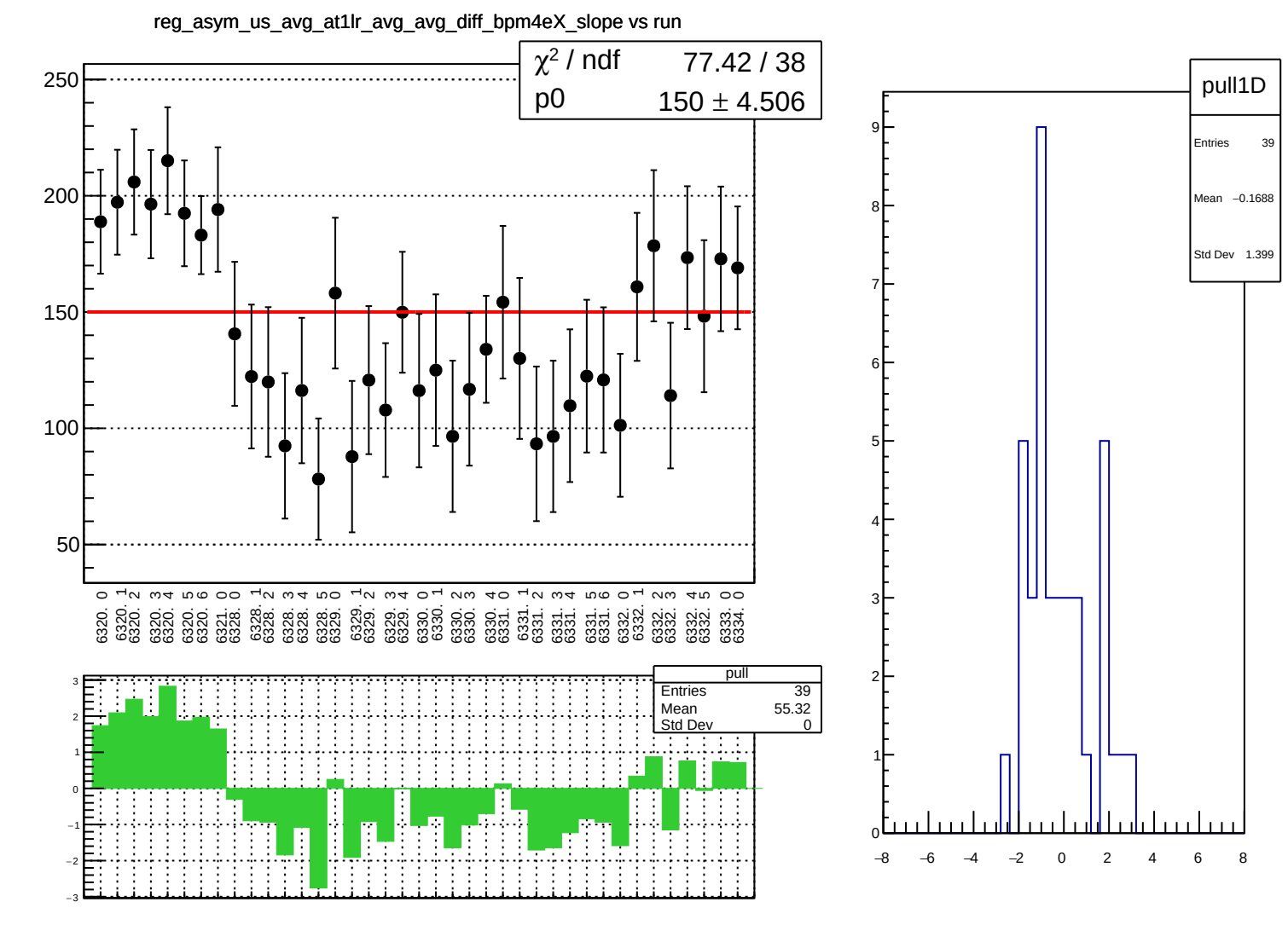

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 280.3 / 38
p0 180.1 ± 0.3988
pull
Entries 39
Mean −39.29
Std Dev 0
pull1D
Entries 39
Mean −0.3201
Std Dev 2.662

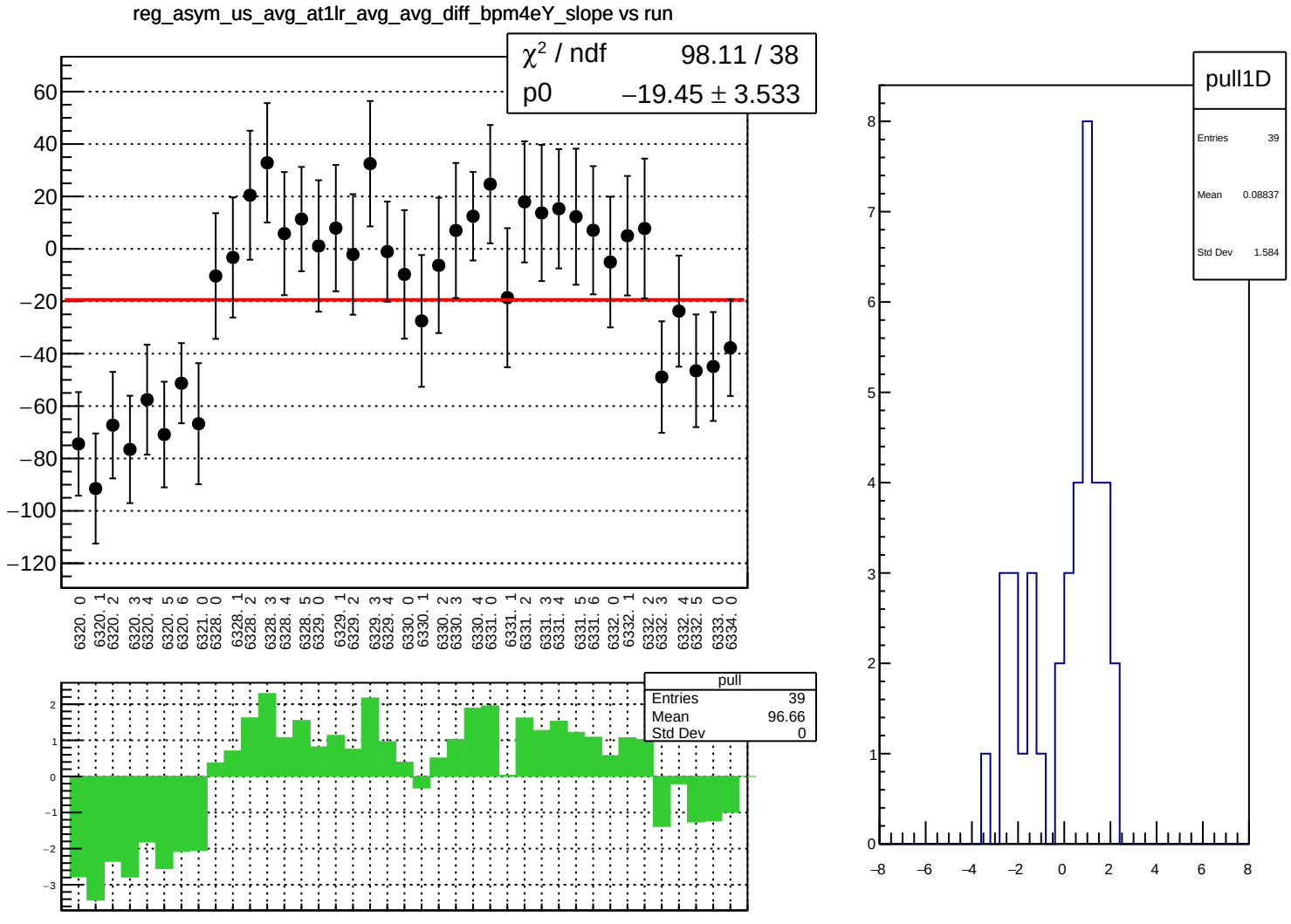

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 84.39 / 38
p0 −150.9 ± 4.312
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 60.78
Std Dev 0
2
1
0
−1
−2
−3

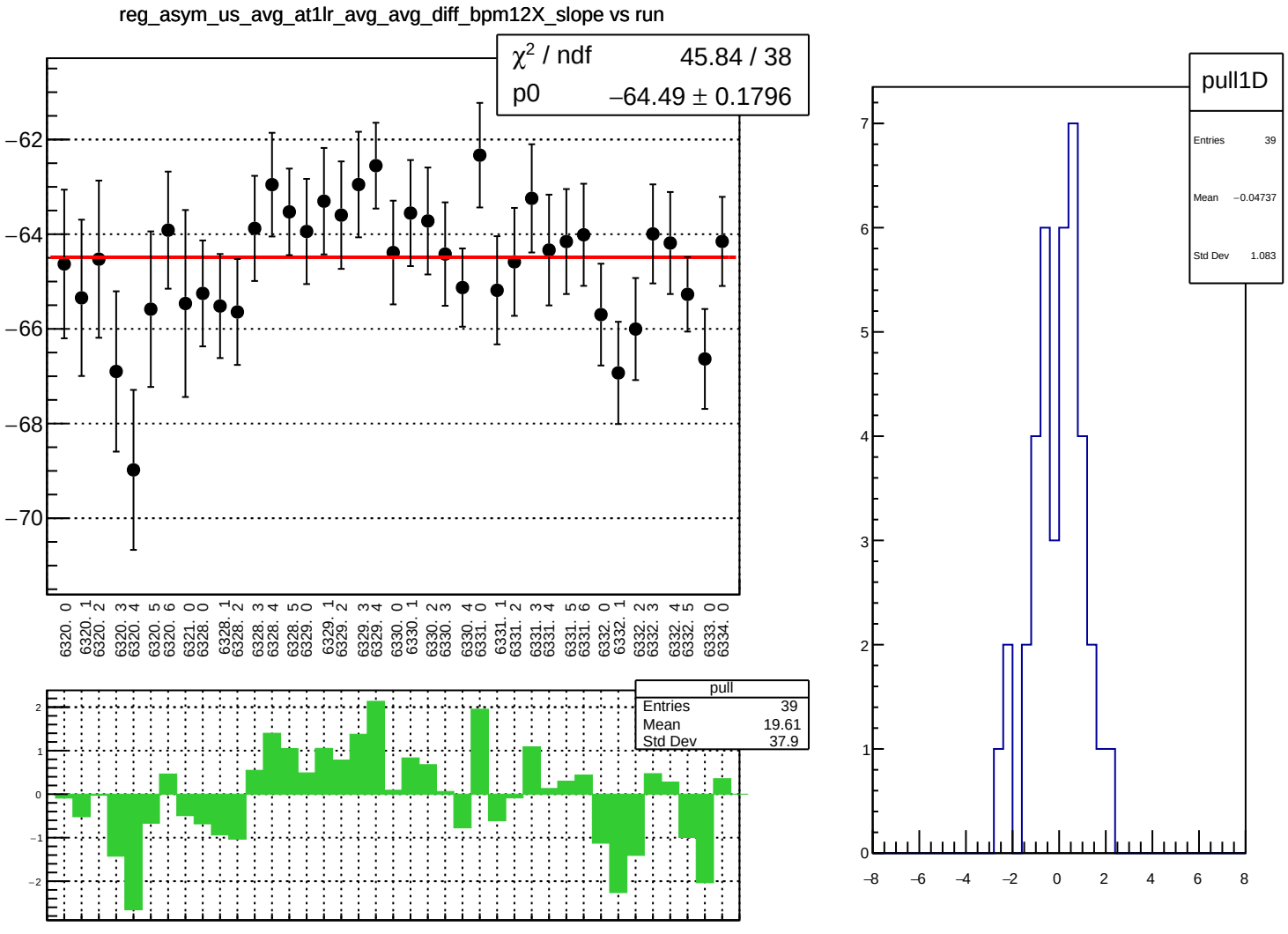

pull1D
Entries 39
Mean 0.1625
Std Dev 1.462
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

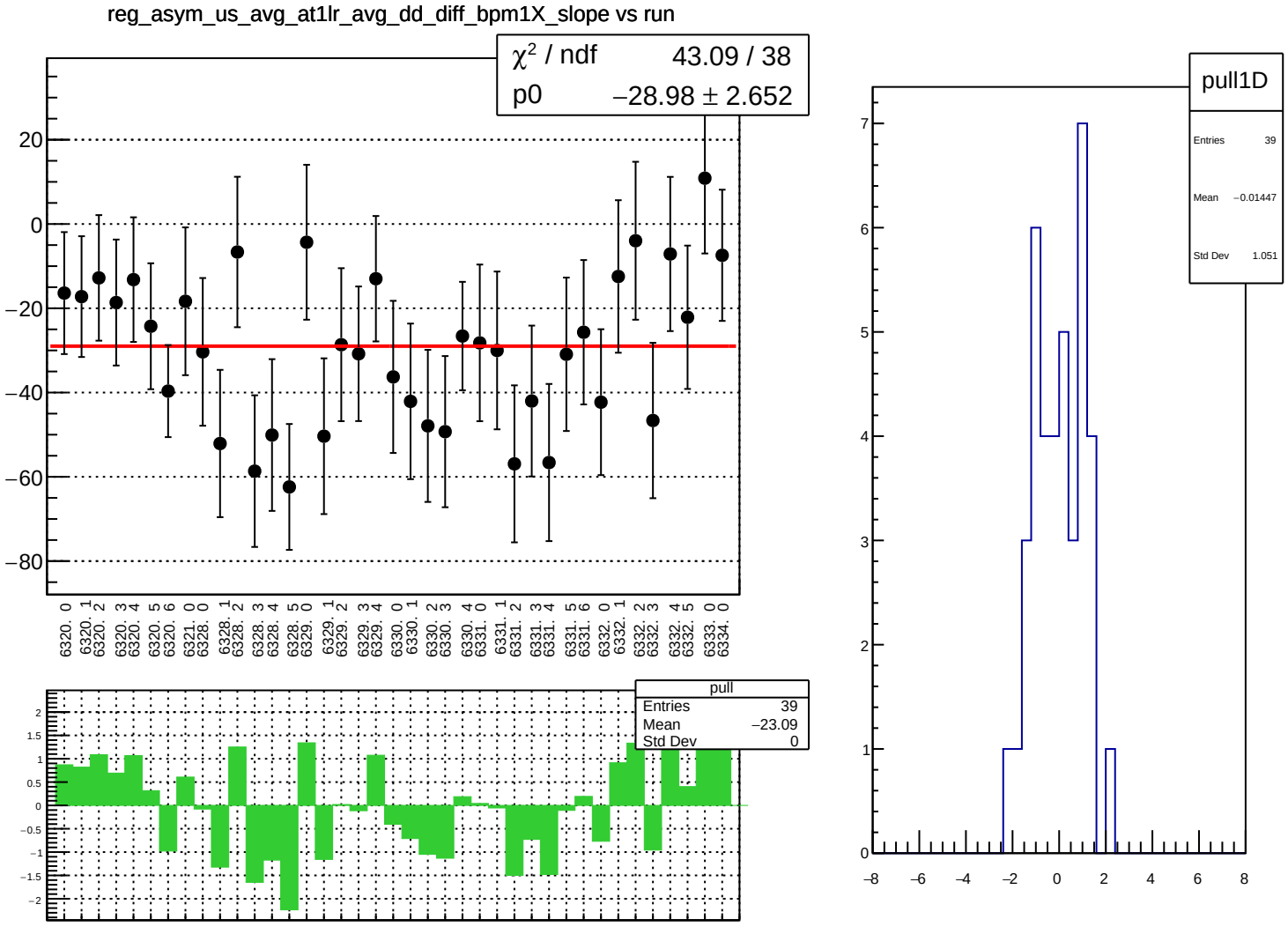

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.9 / 38
p0 23.14 ± 3.147
pull
Entries 39
Mean 59.08
Std Dev 0

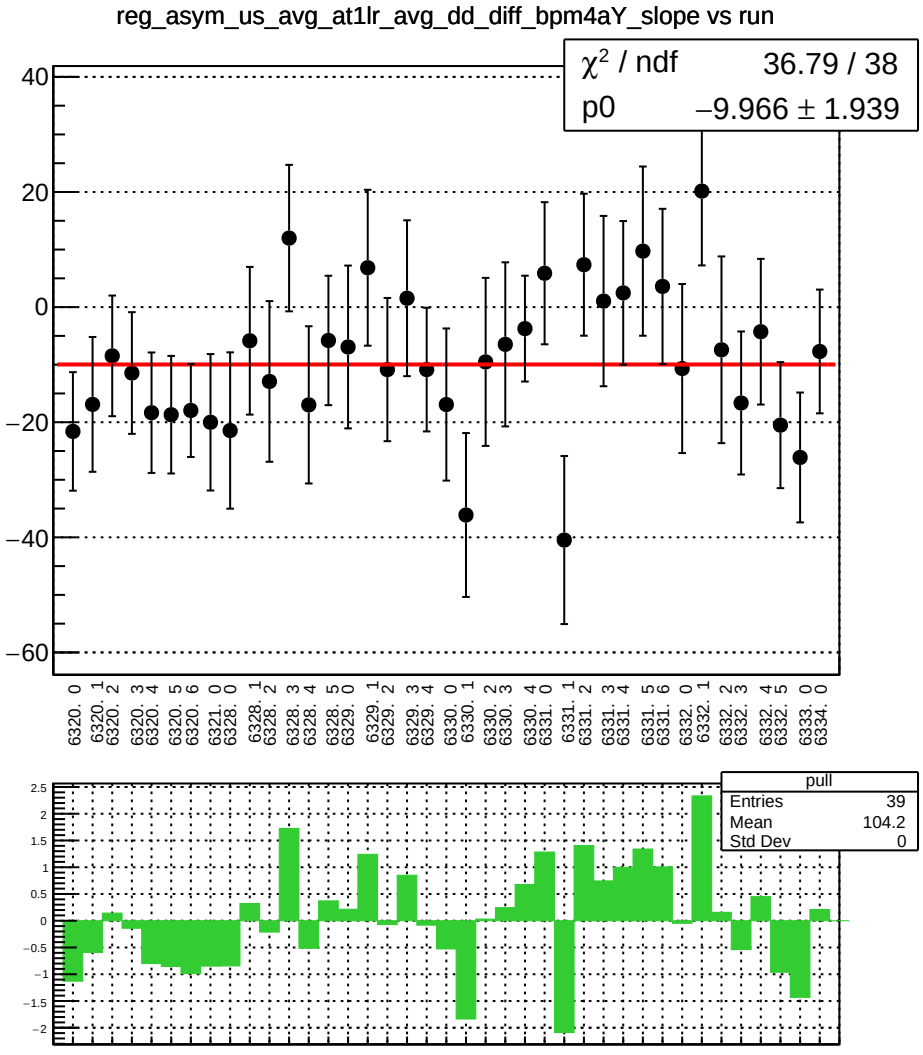

pull1D
Entries 39
Mean −0.1217
Std Dev 1.136

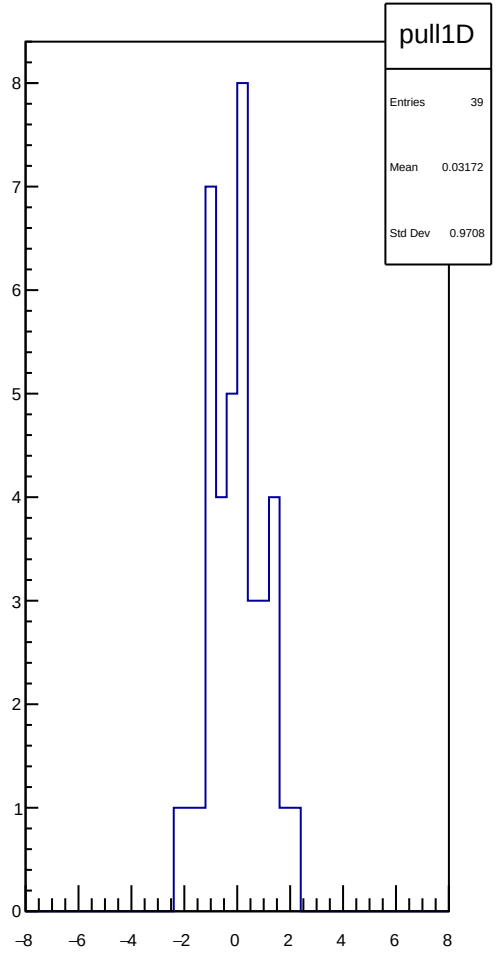

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.42 / 38
p0 150 ± 4.506
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.32
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.1688
Std Dev 1.399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

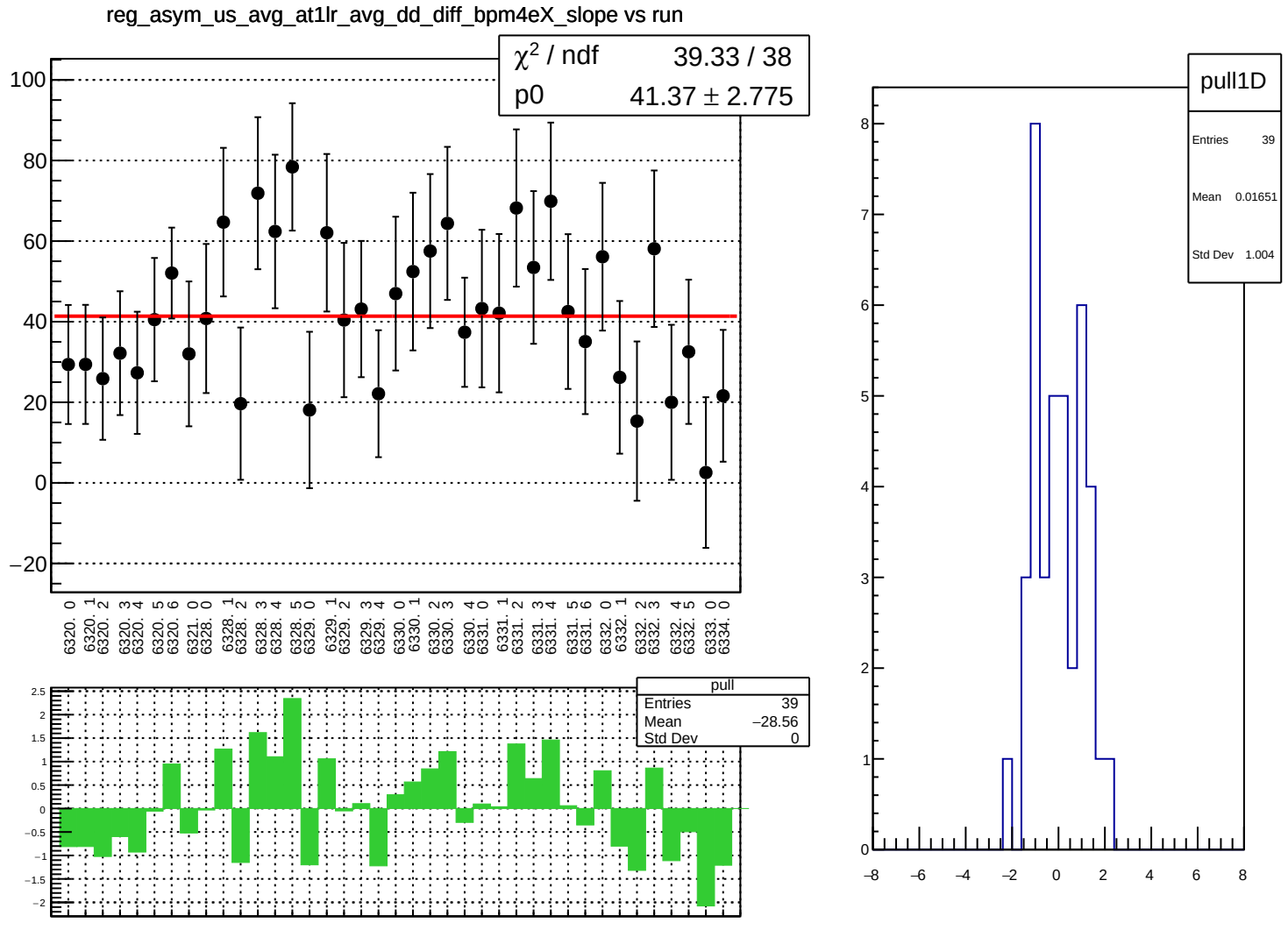

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.11 / 38
p0 −19.45 ± 3.533
pull
Entries 39
Mean 96.66
Std Dev 0
pull1D
Entries 39
Mean 0.08837
Std Dev 1.584

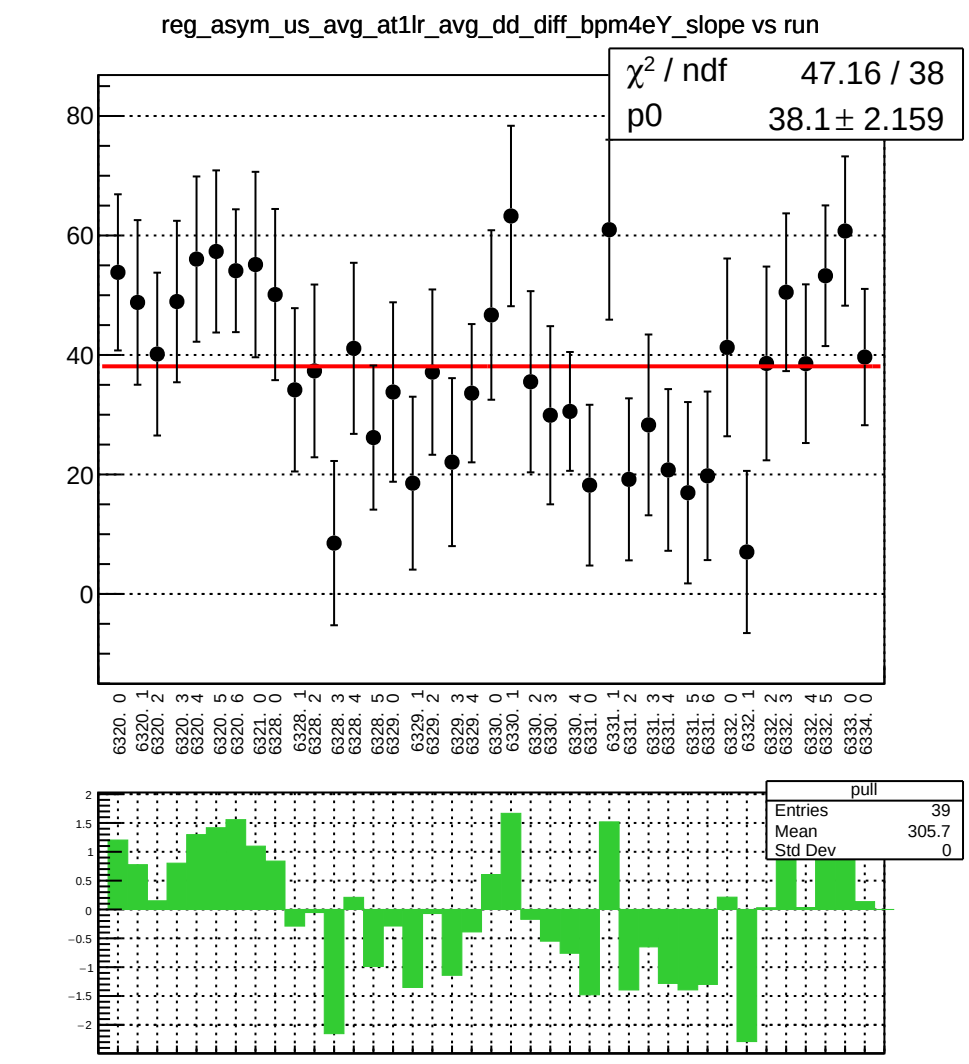

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 45.84 / 38
p0 −64.49 ± 0.1796
−62
−64
−66
−68
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.61
Std Dev 37.9
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.04737
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

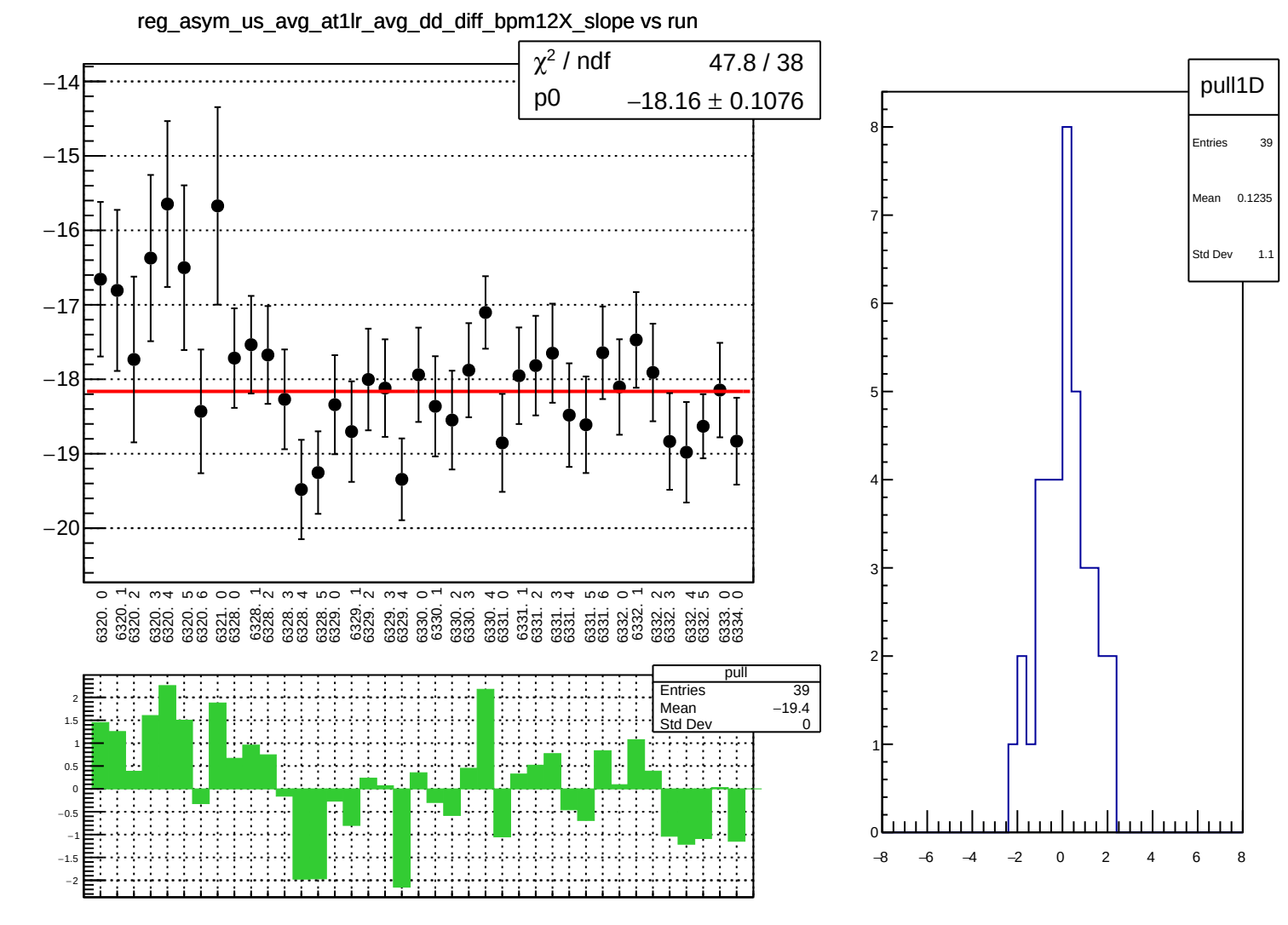

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 43.09 / 38
p0 −28.98 ± 2.652
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −23.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01447
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

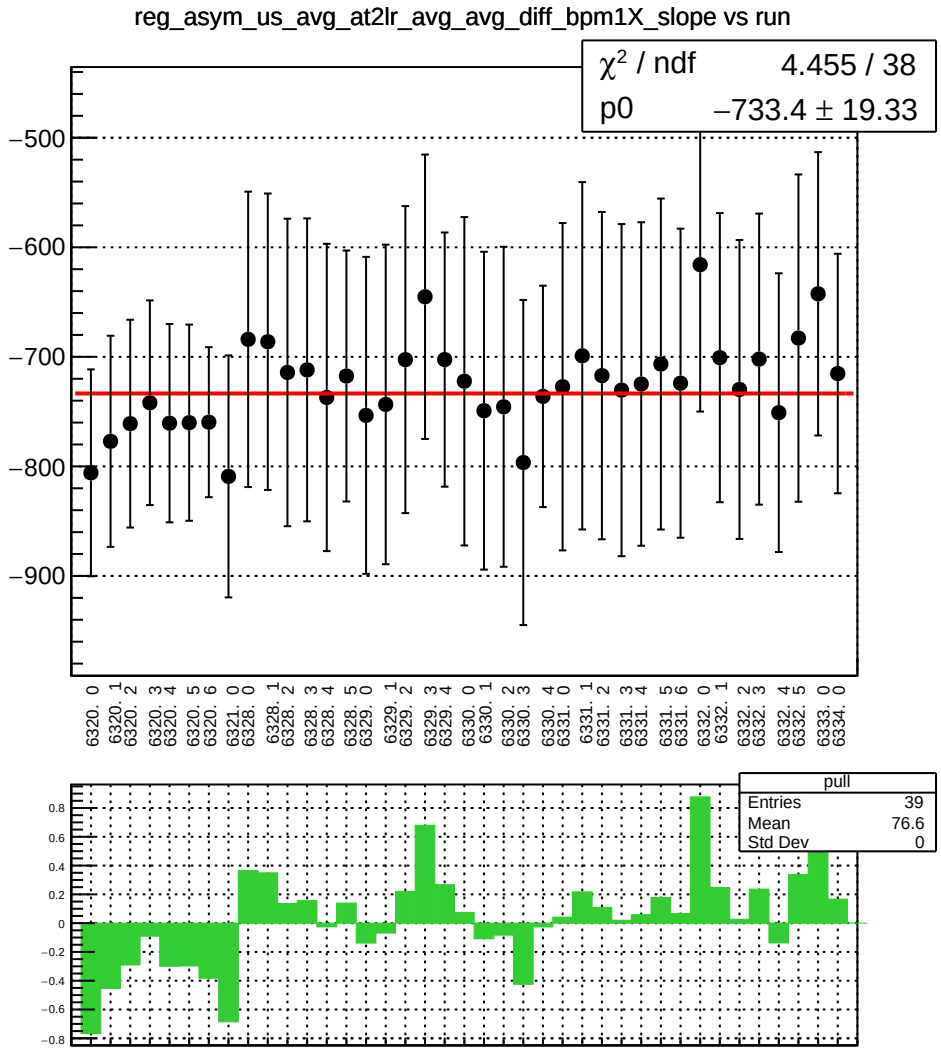

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.79 / 38
p0 −9.966 ± 1.939
pull
Entries 39
Mean 104.2
Std Dev 0

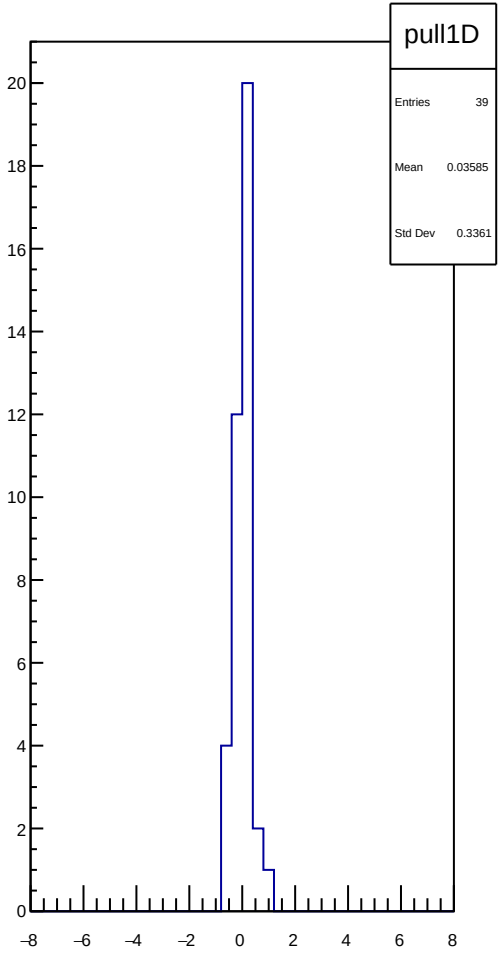

pull1D
Entries 39
Mean 0.03172
Std Dev 0.9708

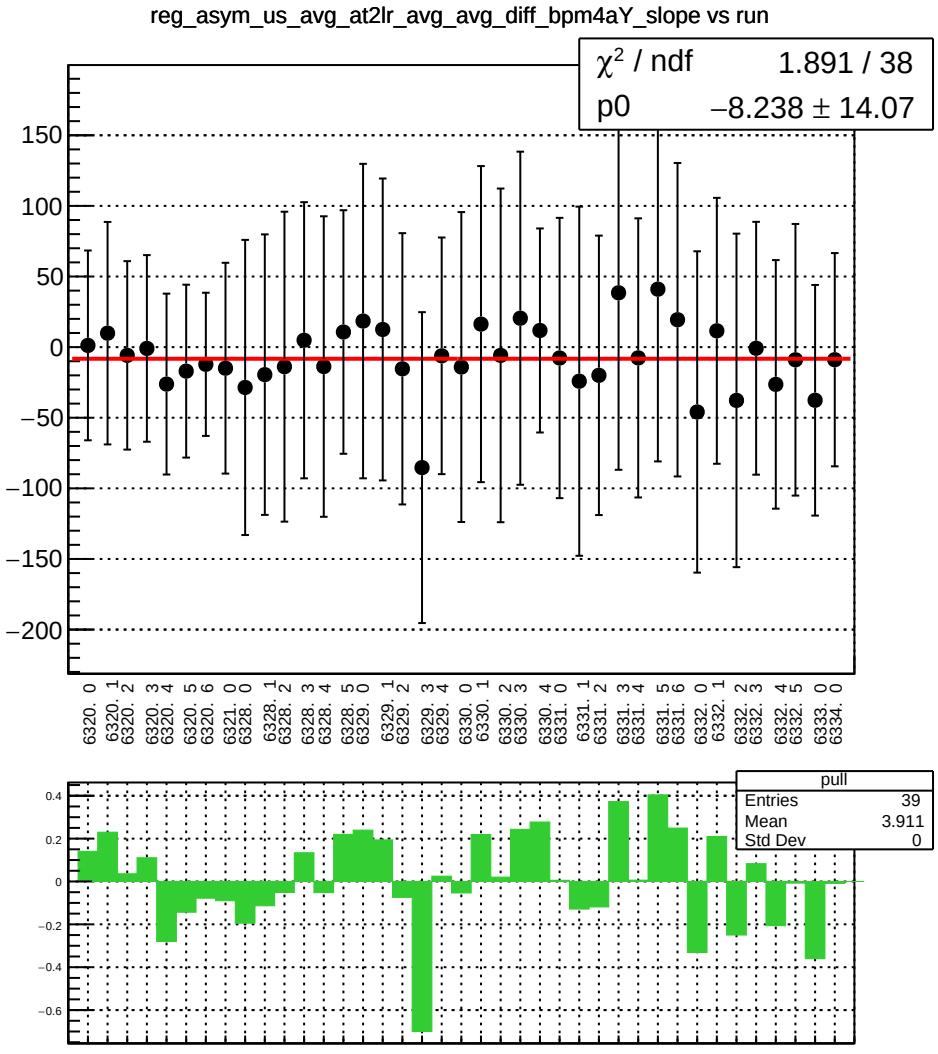

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.33 / 38
p0 41.37 ± 2.775
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −28.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.01651
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

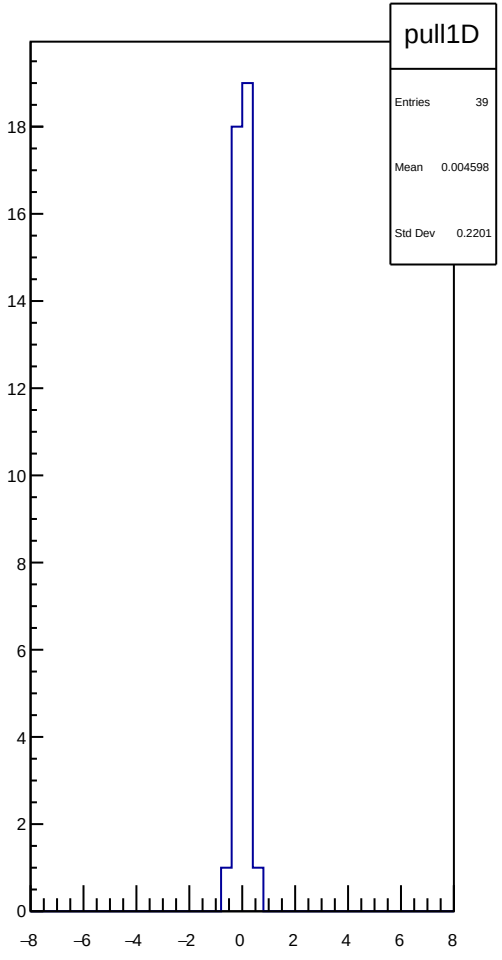

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.16 / 38
p0 38.1 ± 2.159
pull
Entries 39
Mean 305.7
Std Dev 0
pull1D
Entries 39
Mean −0.00993
Std Dev 1.1

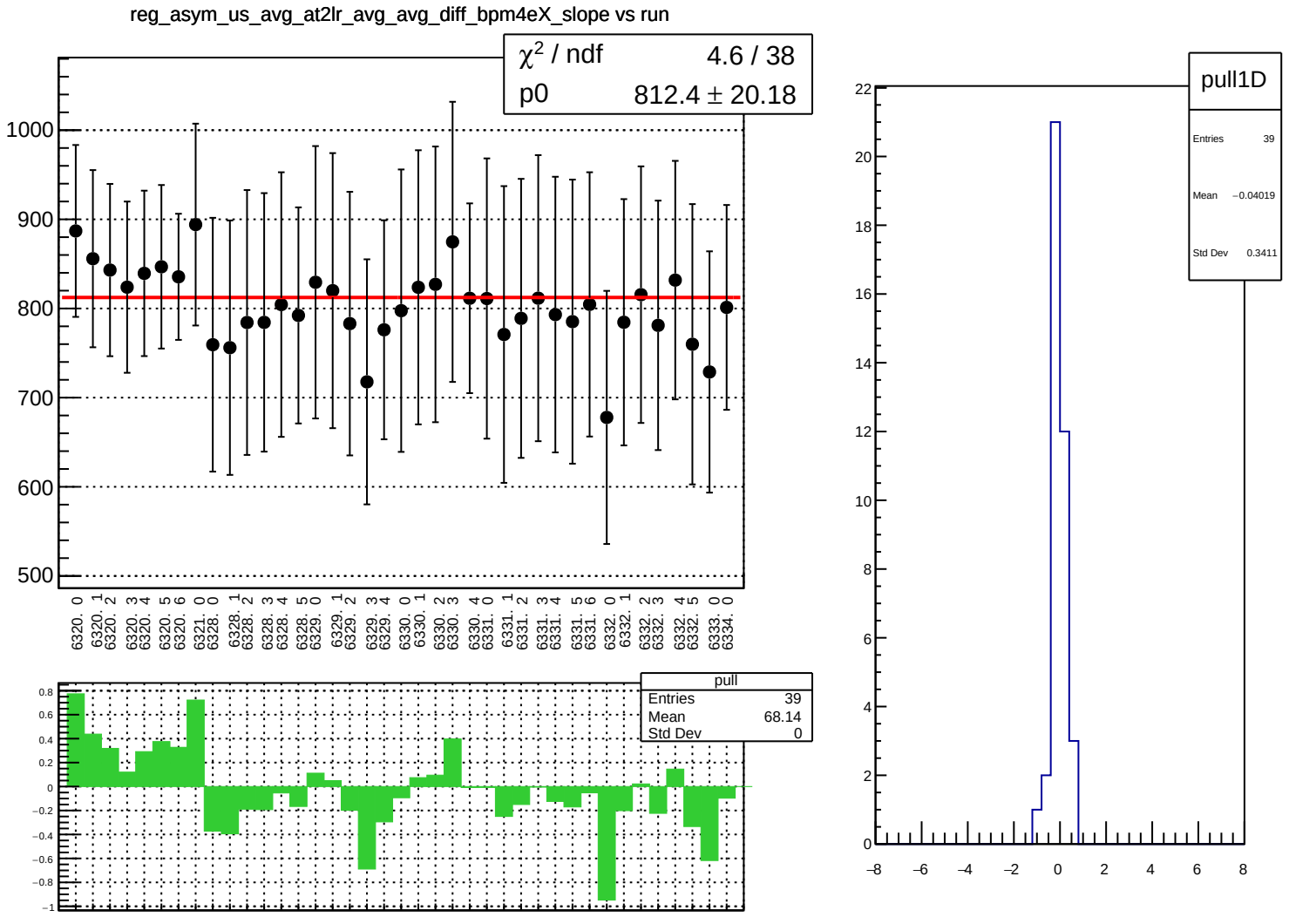

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 47.8 / 38
p0 −18.16 ± 0.1076
pull
Entries 39
Mean −19.4
Std Dev 0
pull1D
Entries 39
Mean 0.1235
Std Dev 1.1

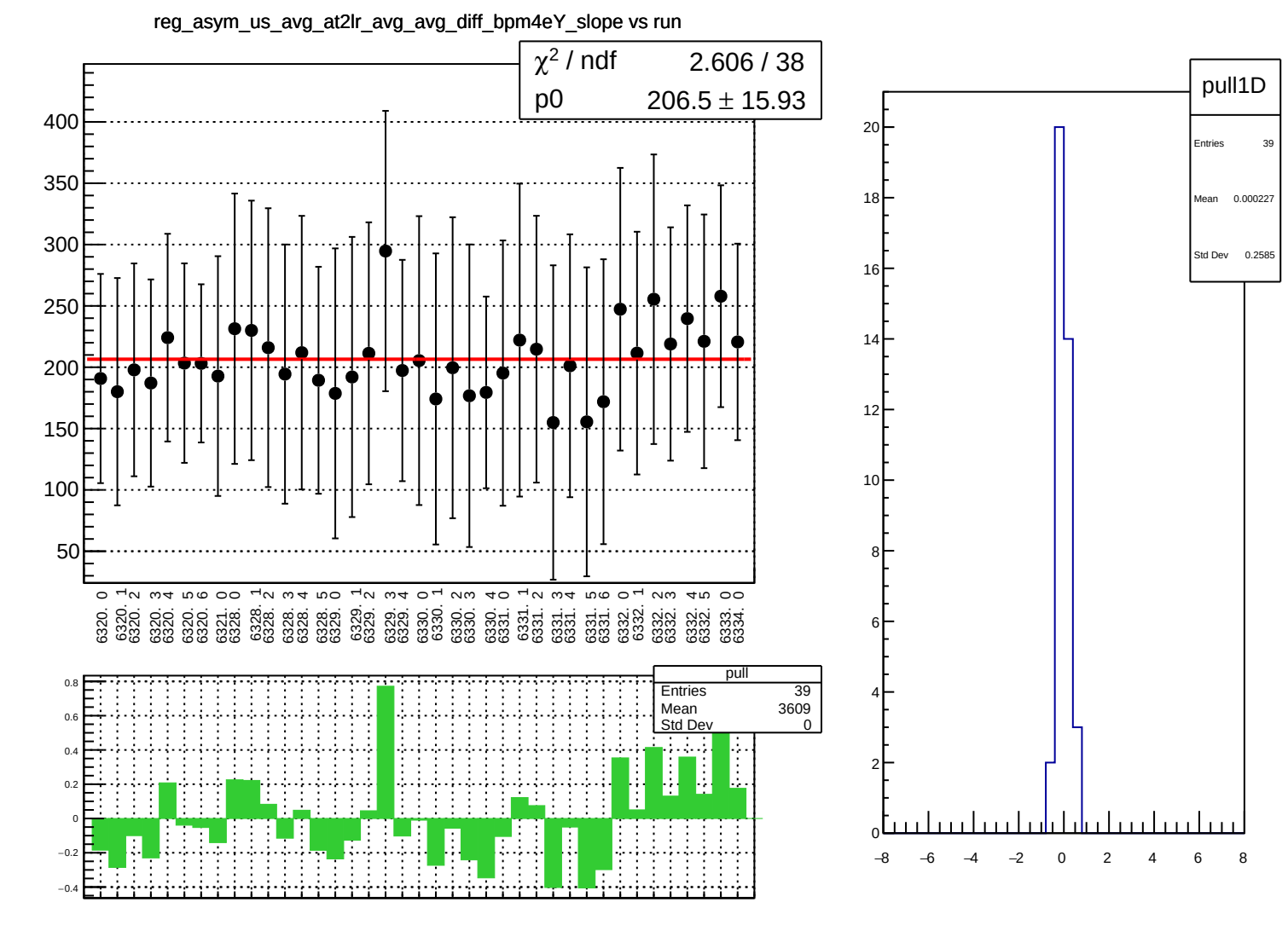

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.455 / 38
p0 −733.4 ± 19.33
−500
−600
−700
−800
−900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 76.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

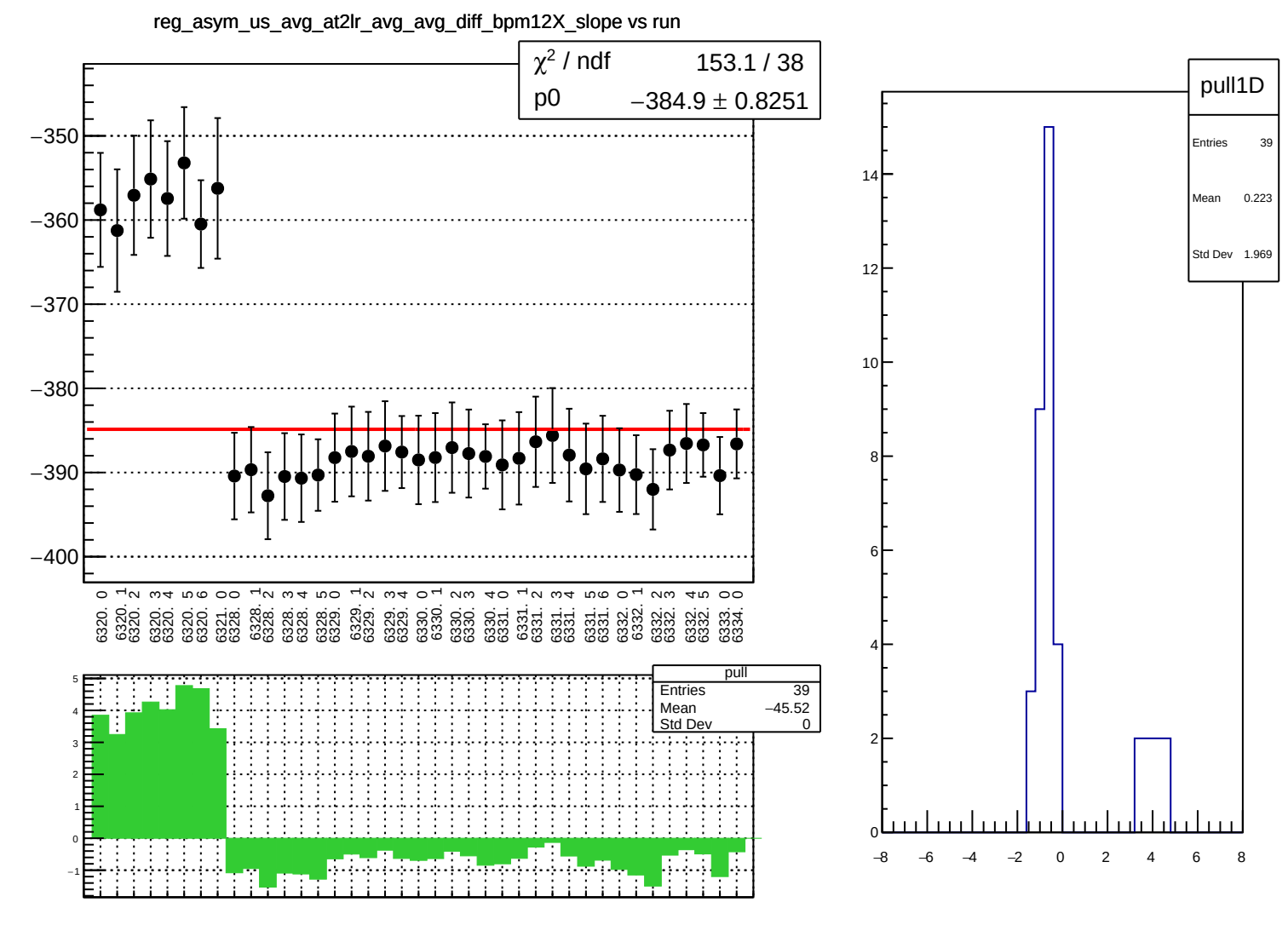

pull1D
Entries 39
Mean 0.03585
Std Dev 0.3361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

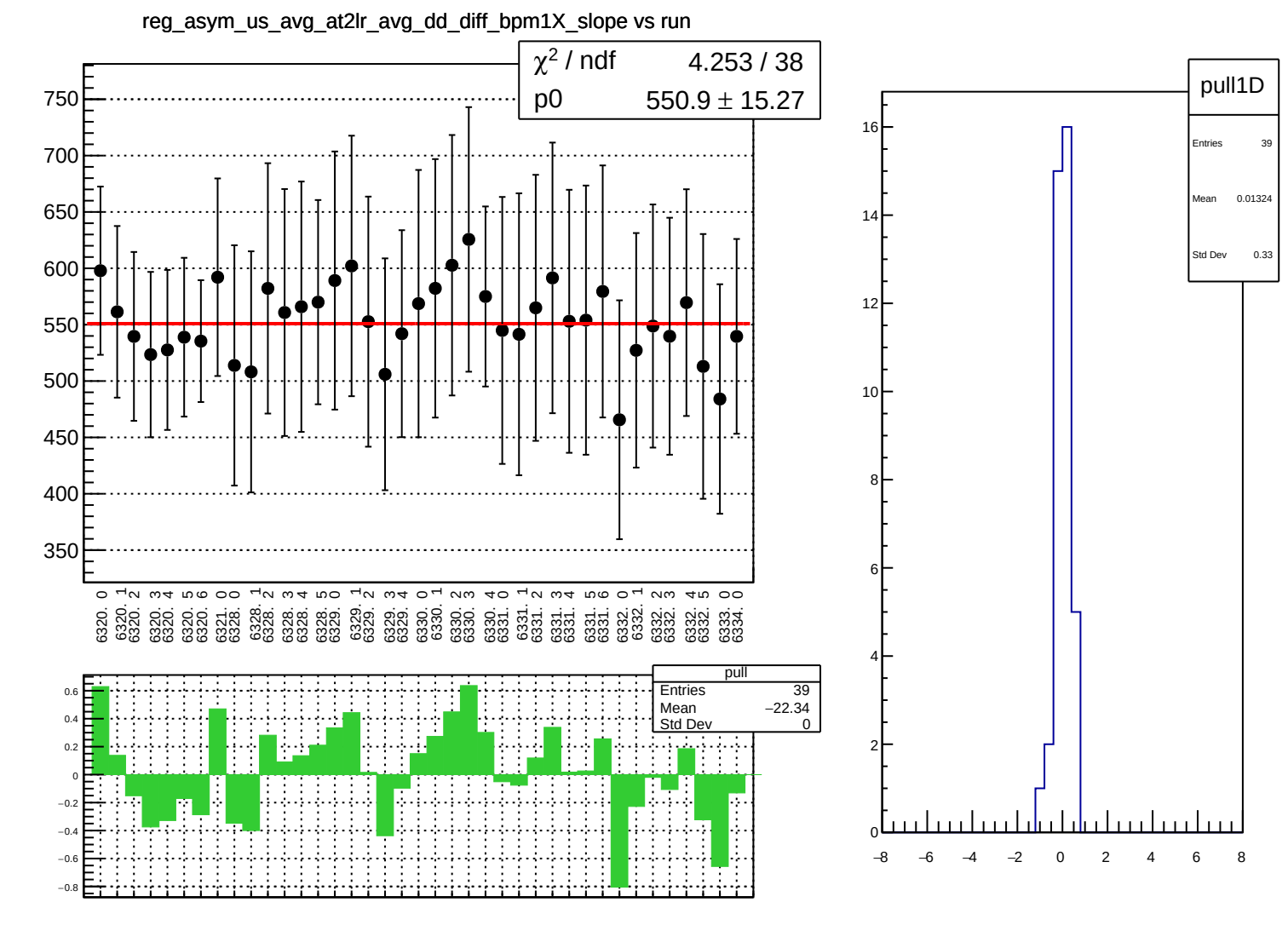

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.891 / 38
p0 −8.238 ± 14.07
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3.911
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

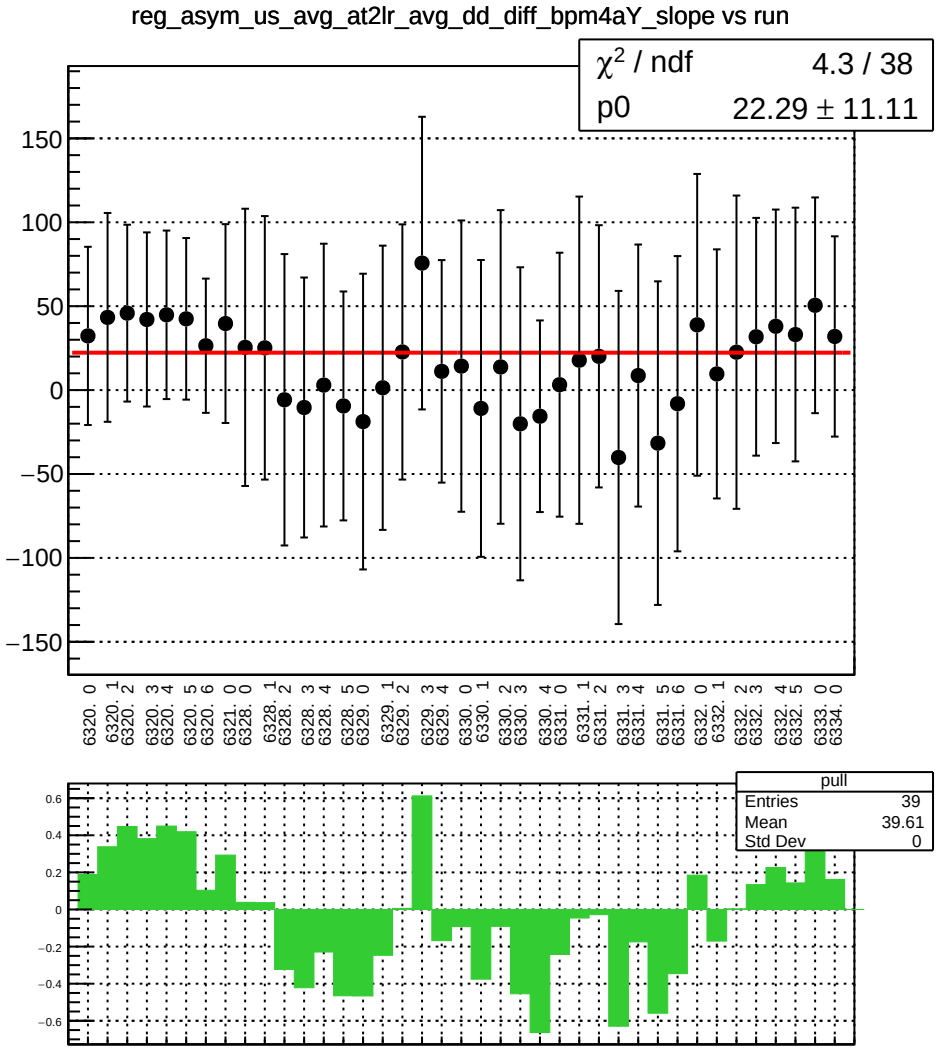

pull1D
Entries 39
Mean 0.004598
Std Dev 0.2201
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

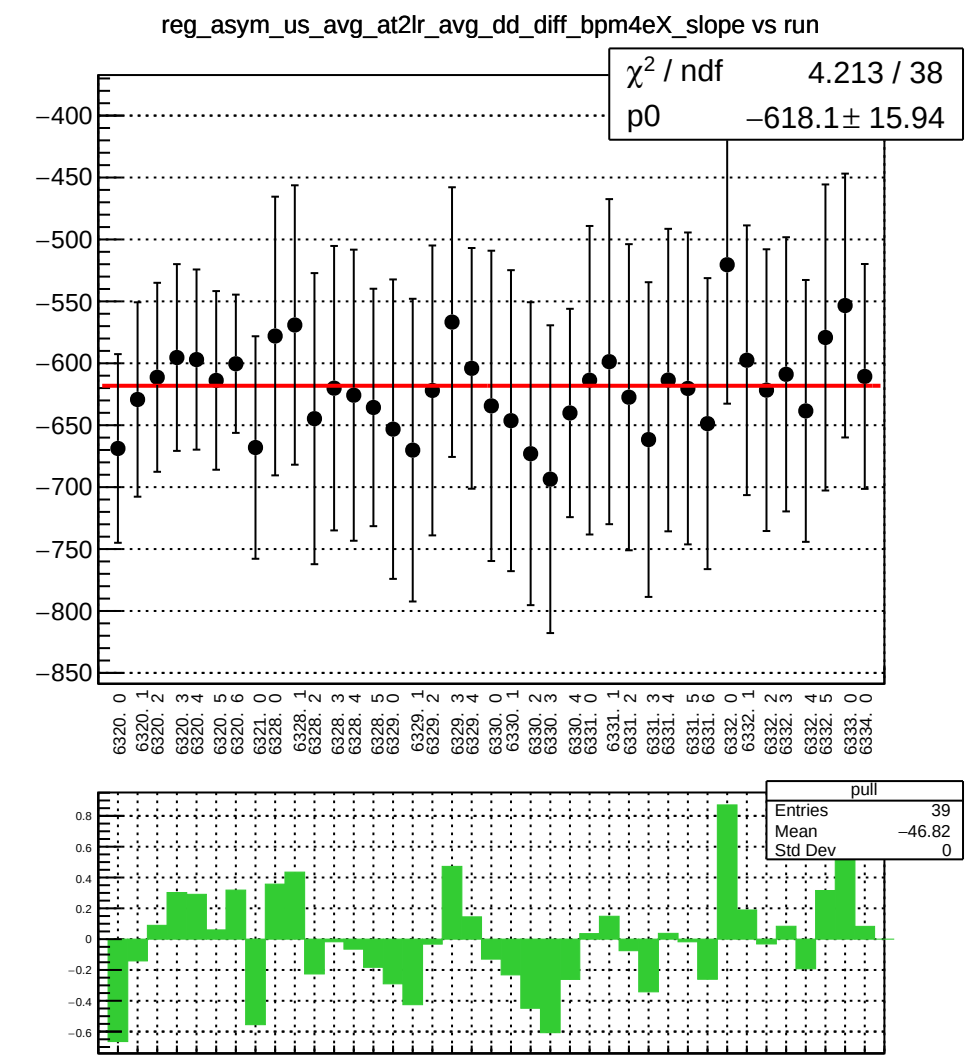

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.6 / 38
p0 812.4 ± 20.18
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 68.14
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.04019
Std Dev 0.3411
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

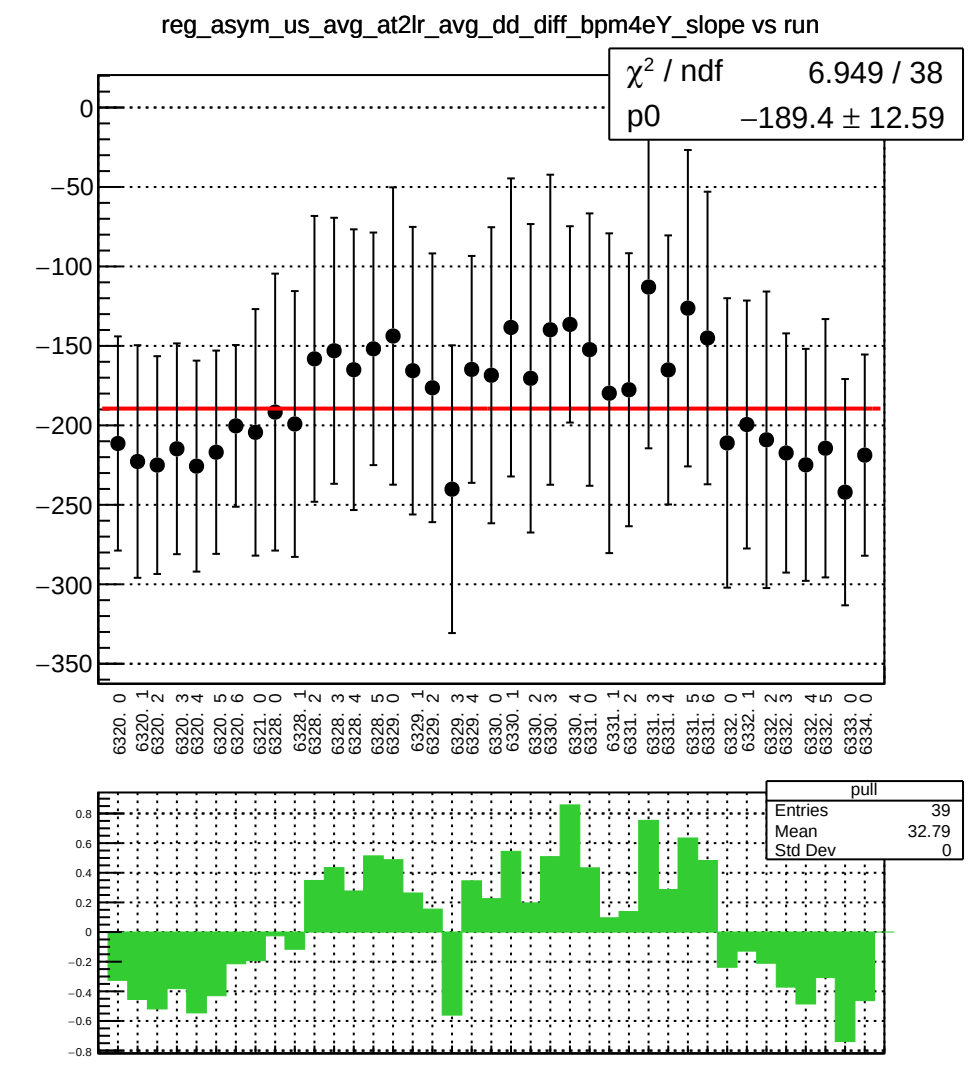

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.606 / 38
p0 206.5 ± 15.93
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 3609
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.000227
Std Dev 0.2585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

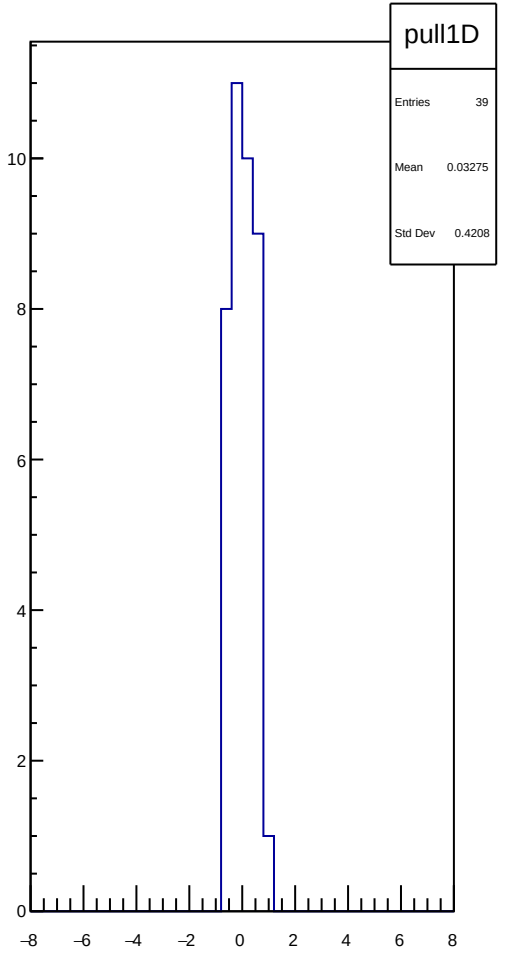

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 153.1 / 38
p0 −384.9 ± 0.8251
−350
−360
−370
−380
−390
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.52
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 39
Mean 0.223
Std Dev 1.969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

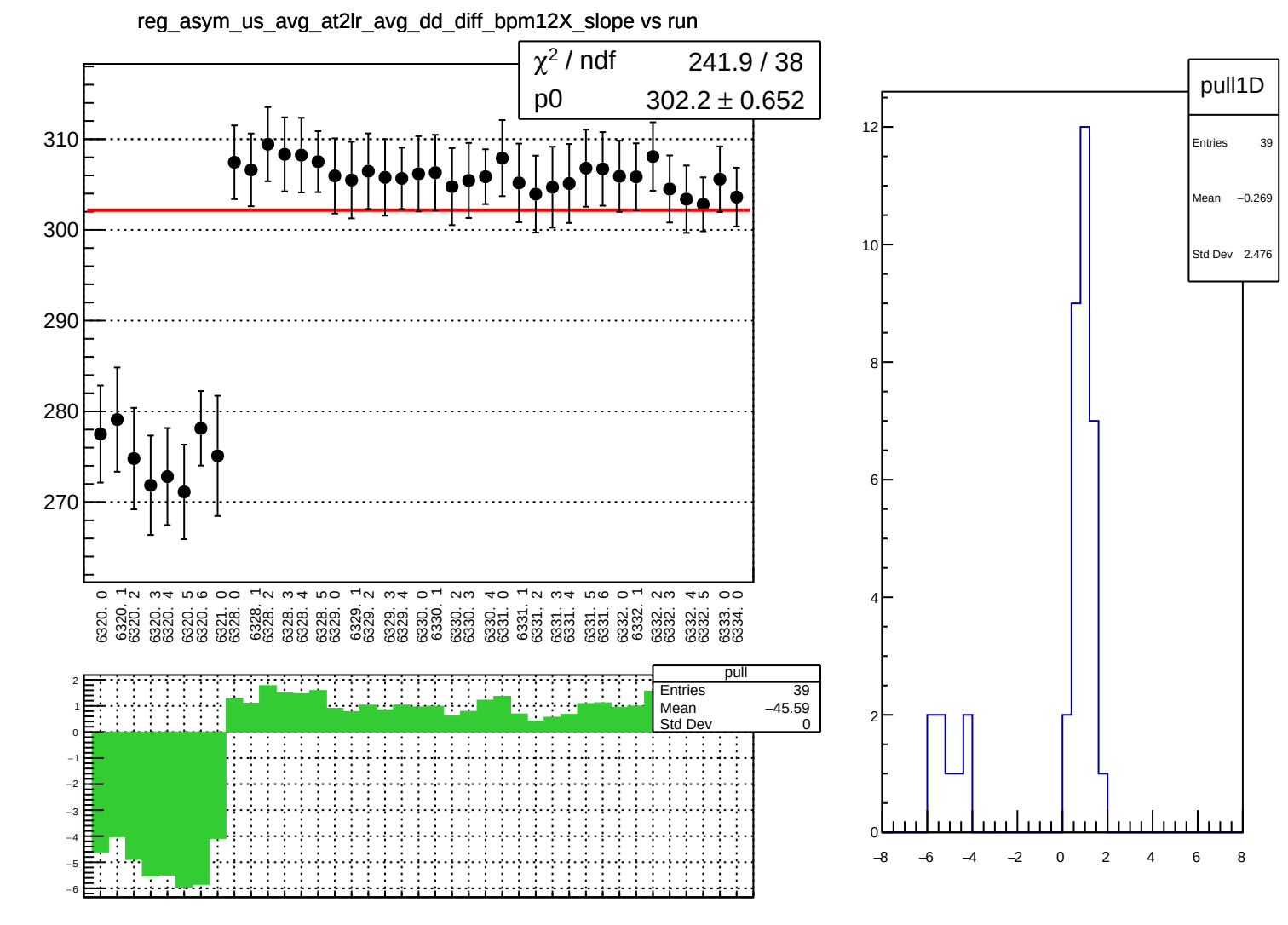

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.253 / 38
p0 550.9 ± 15.27
pull
Entries 39
Mean −22.34
Std Dev 0
pull1D
Entries 39
Mean 0.01324
Std Dev 0.33

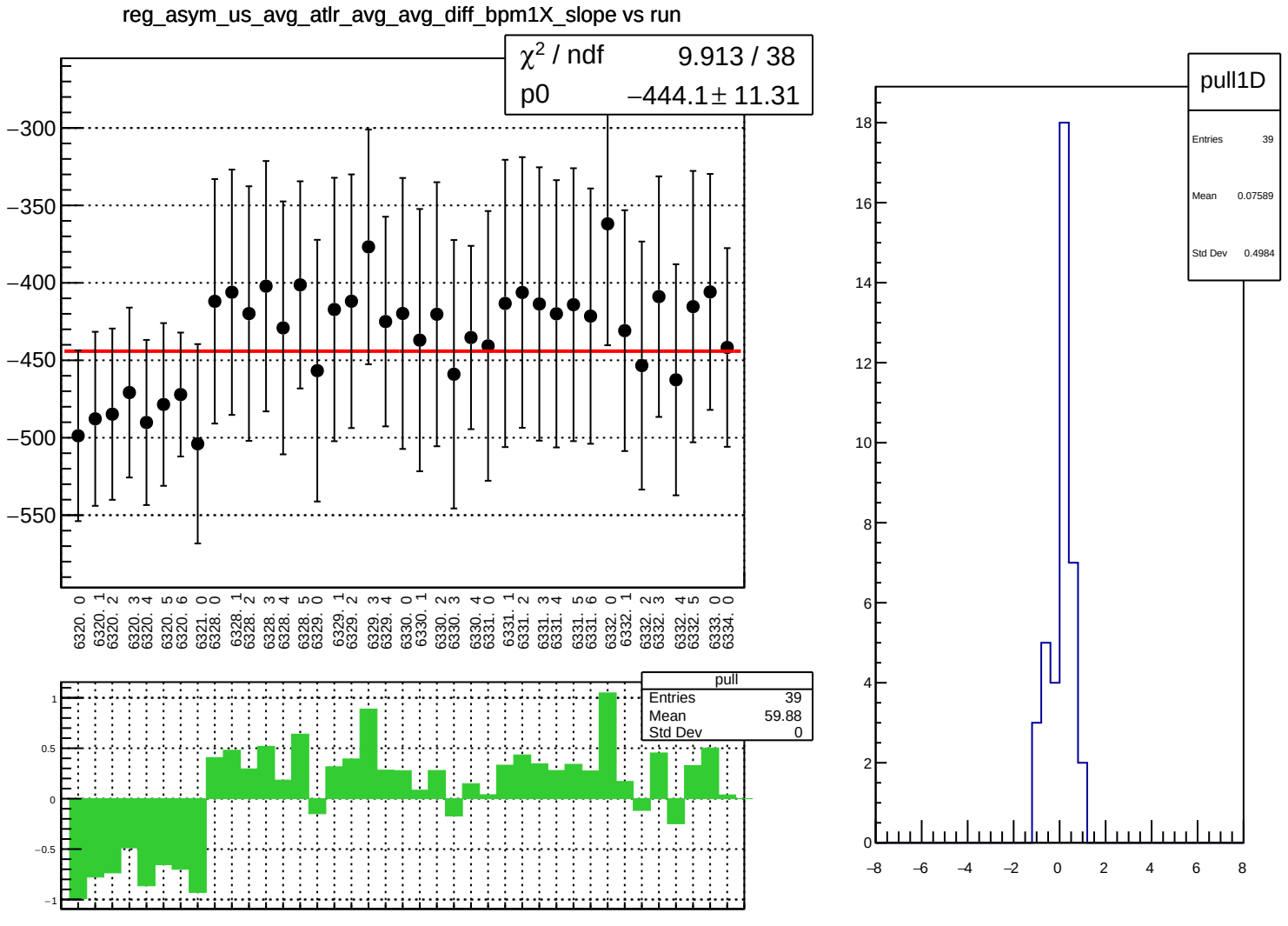

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.3 / 38
p0 22.29 ± 11.11
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 39.61
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.04064
Std Dev 0.3296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

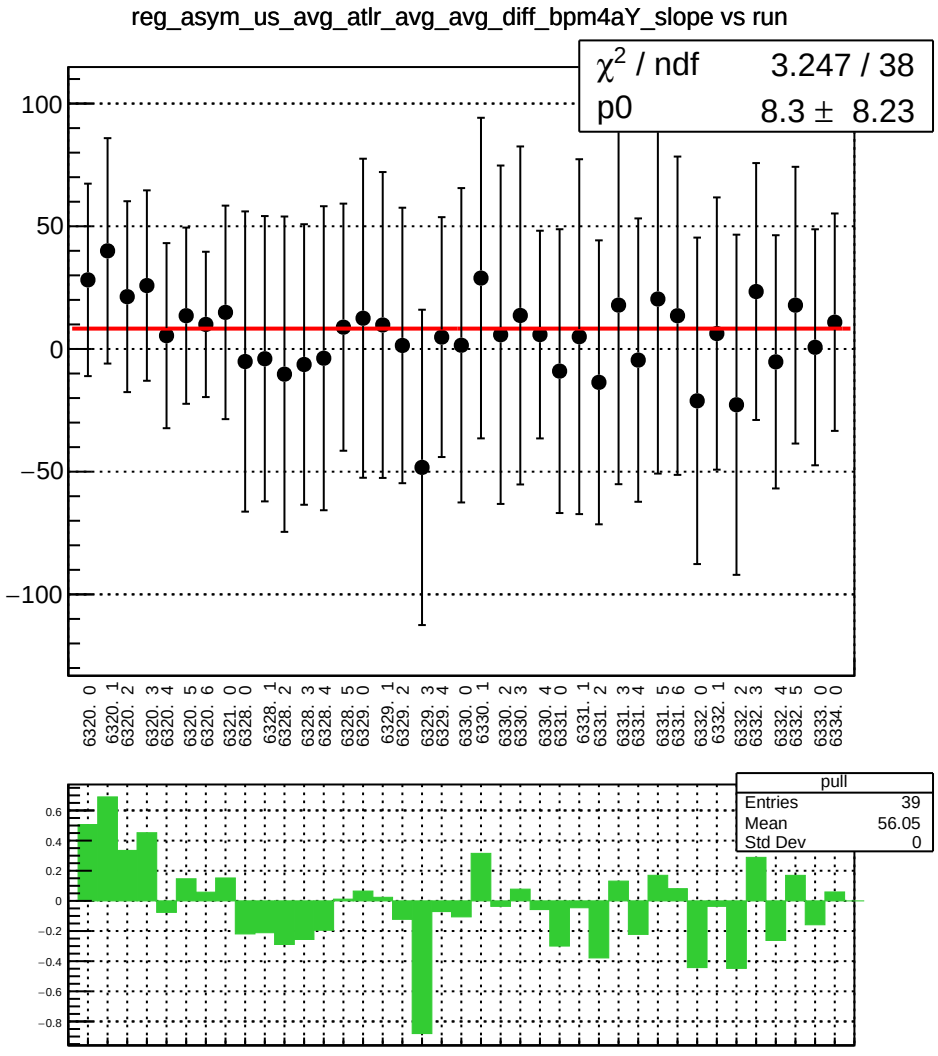

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.213 / 38
p0 −618.1 ± 15.94
pull
Entries 39
Mean −46.82
Std Dev 0
pull1D
Entries 39
Mean −0.009044
Std Dev 0.3286

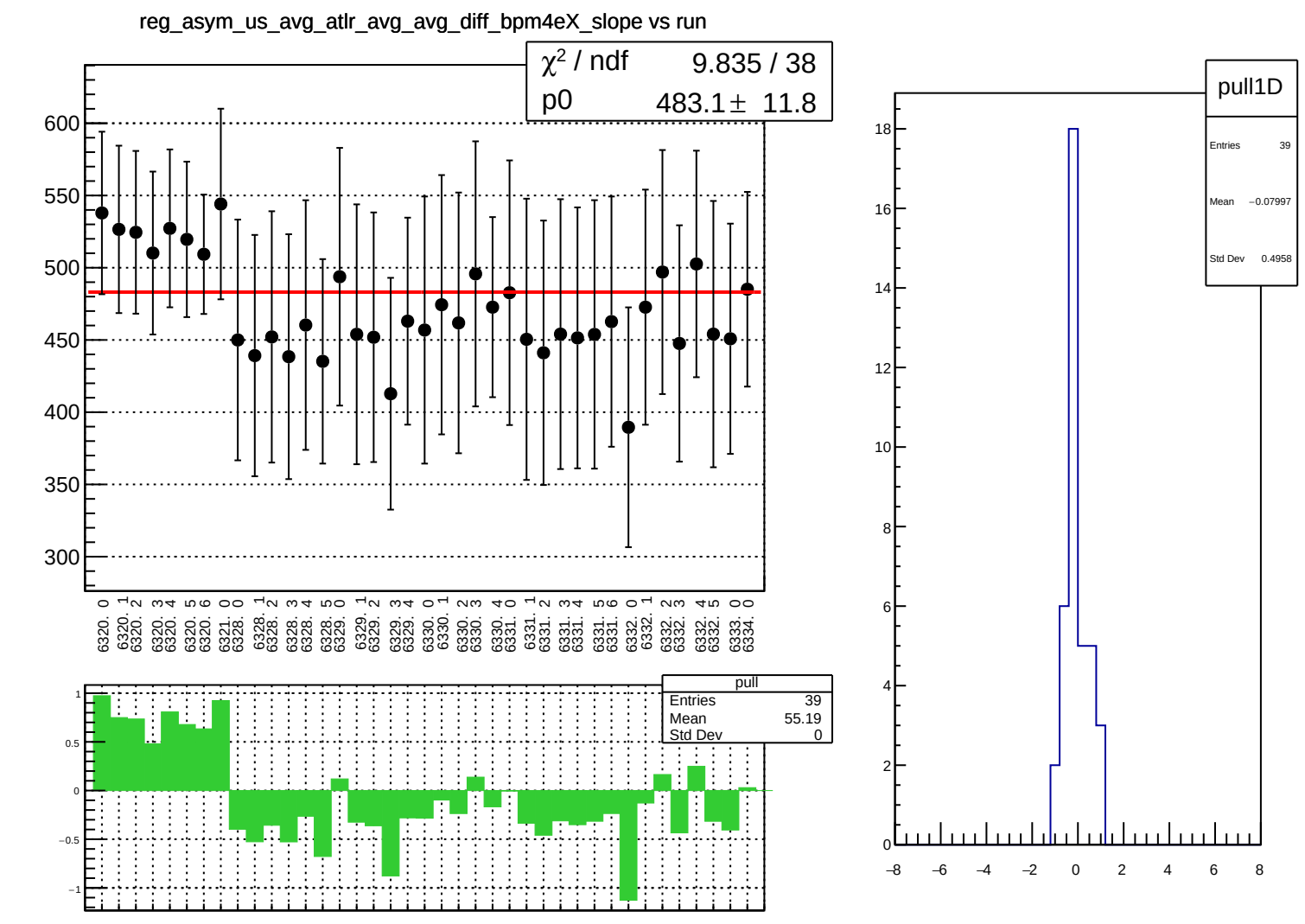

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.949 / 38
p0 −189.4 ± 12.59
0
−50
−100
−150
−200
−250
−300
−350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 32.79
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

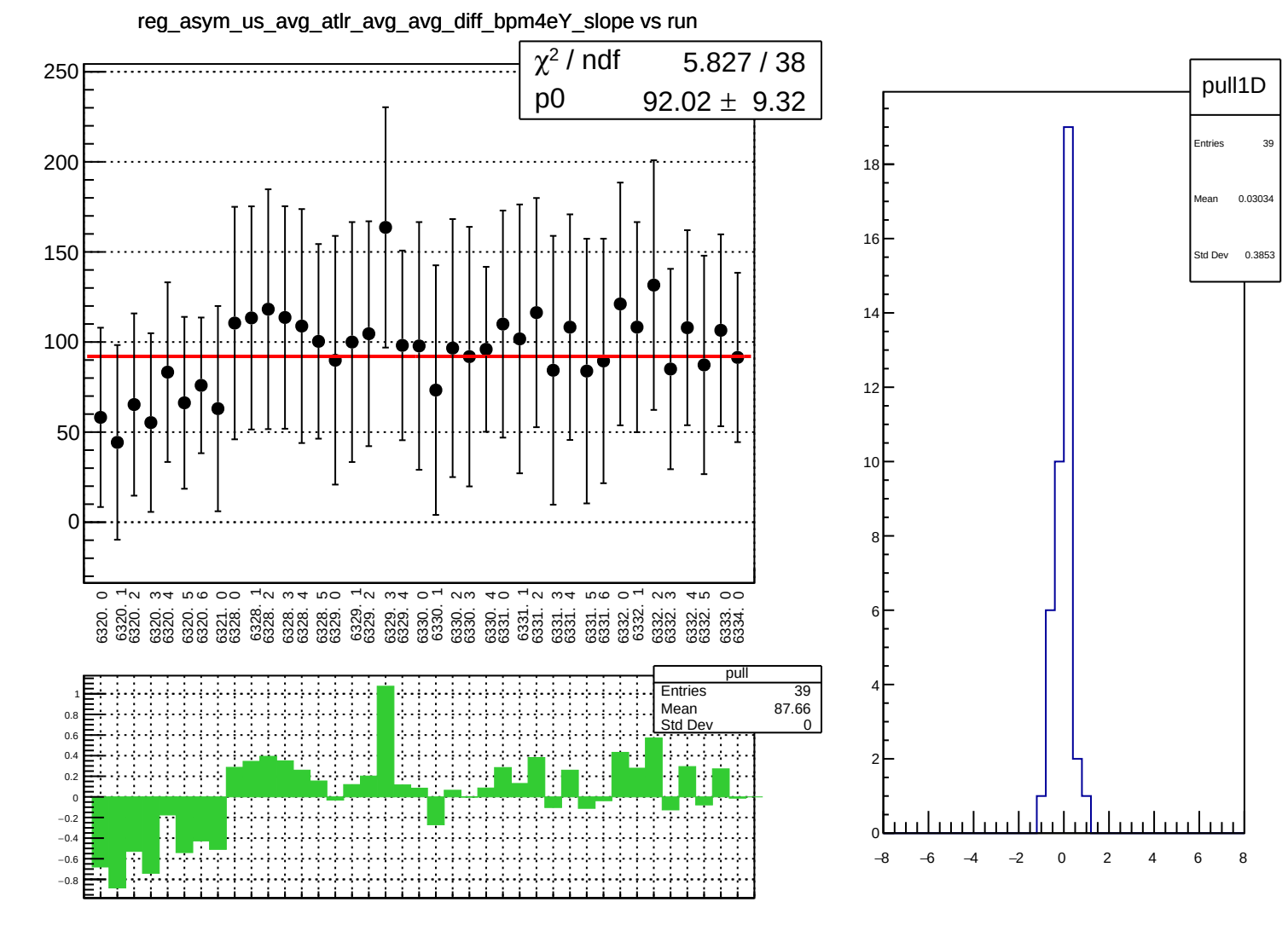

pull1D
Entries 39
Mean 0.03275
Std Dev 0.4208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

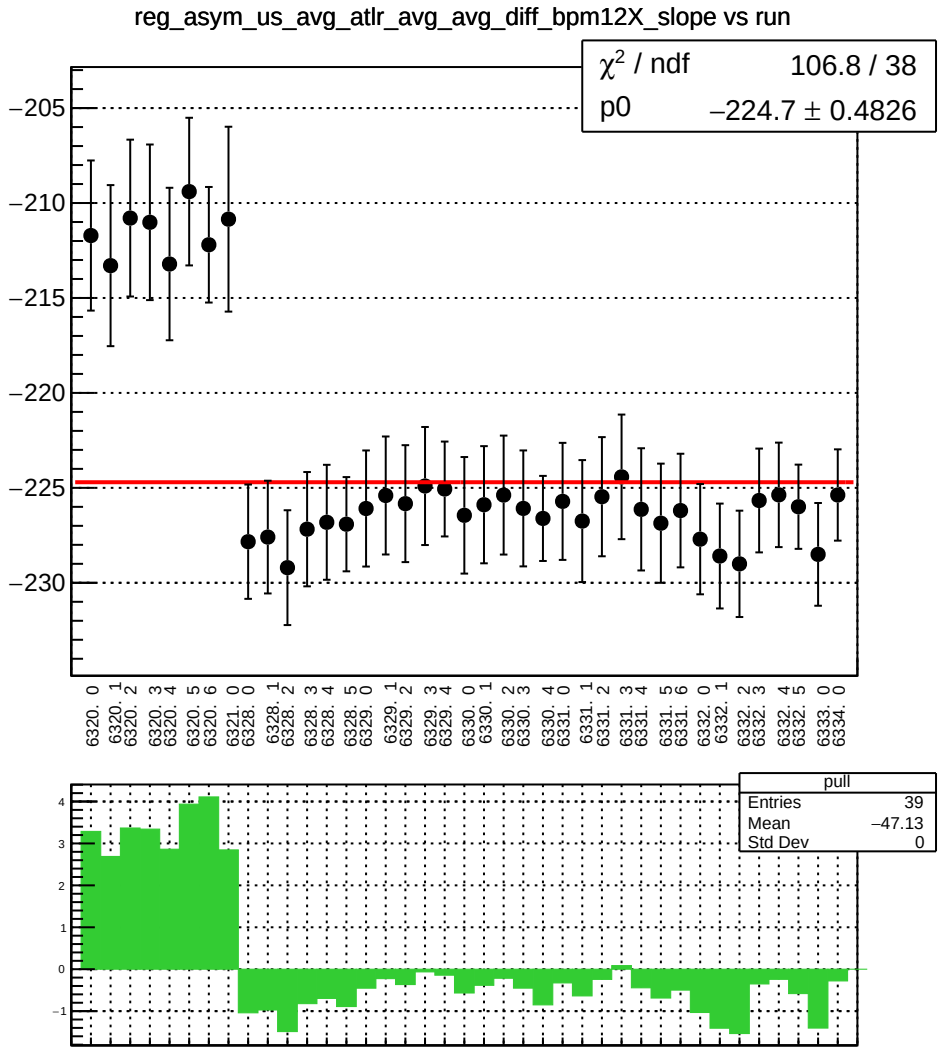

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 241.9 / 38
p0 302.2 ± 0.652
310
300
290
280
270
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −45.59
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 39
Mean −0.269
Std Dev 2.476
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

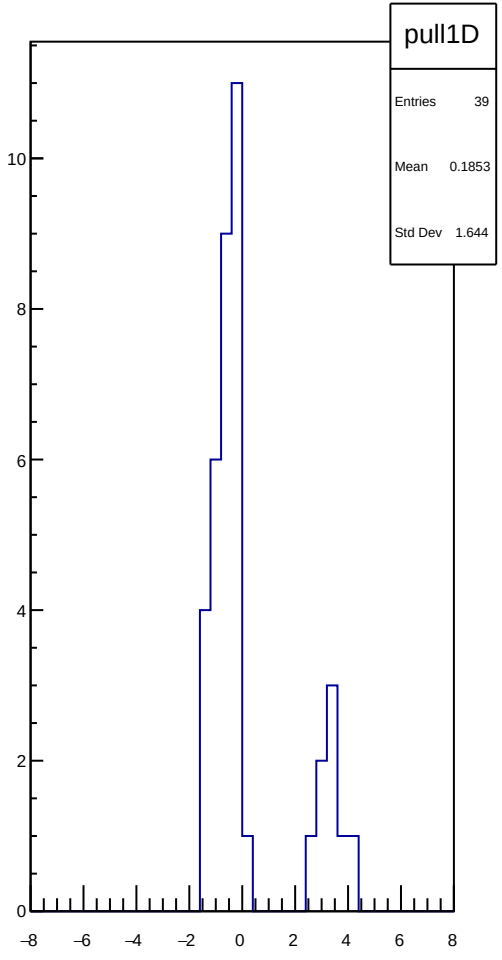

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.913 / 38
p0 −444.1 ± 11.31
−300
−350
−400
−450
−500
−550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 59.88
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.07589
Std Dev 0.4984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

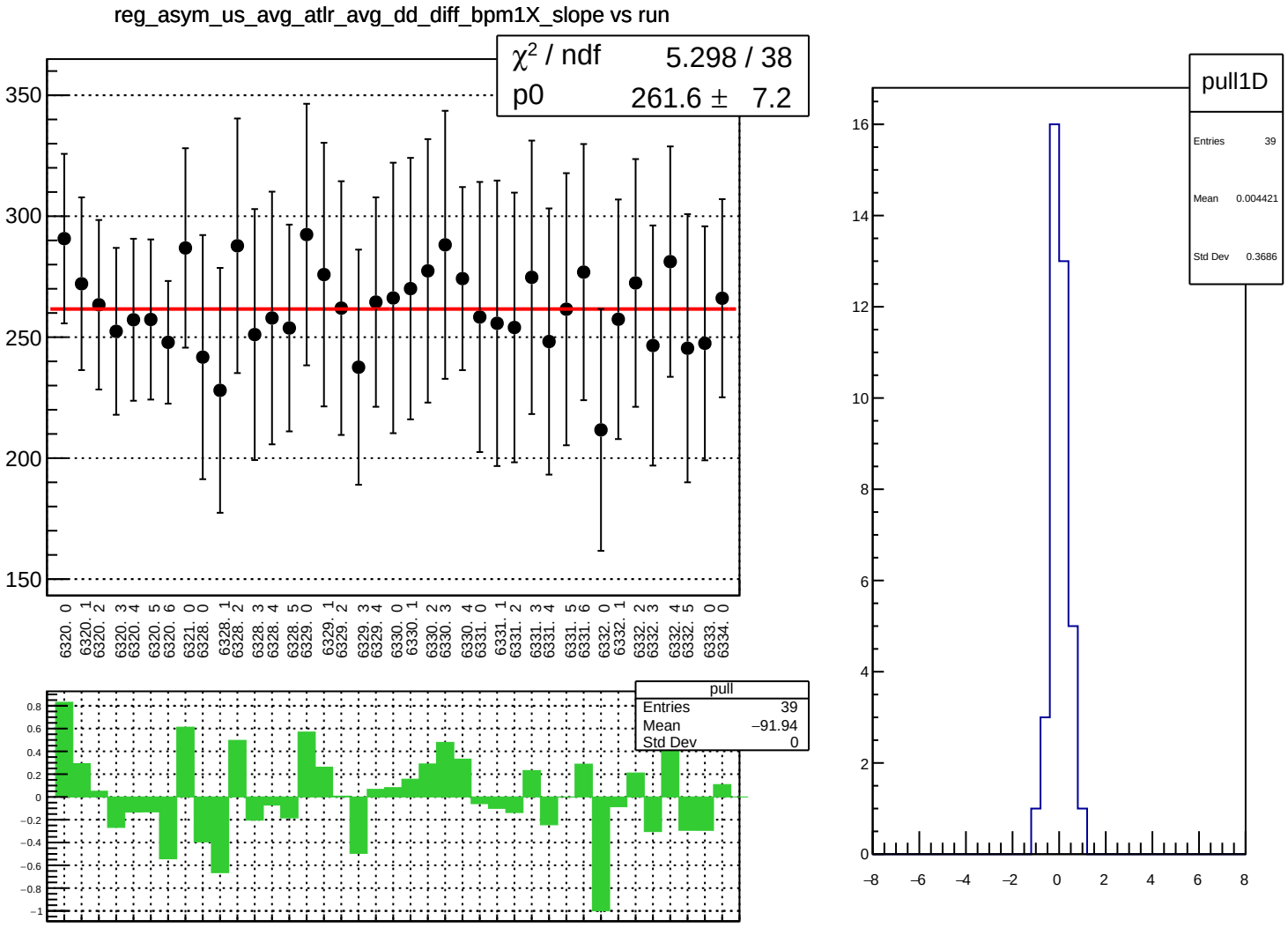

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.247 / 38
p0 8.3 ± 8.23
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 56.05
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.02771
Std Dev 0.2872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

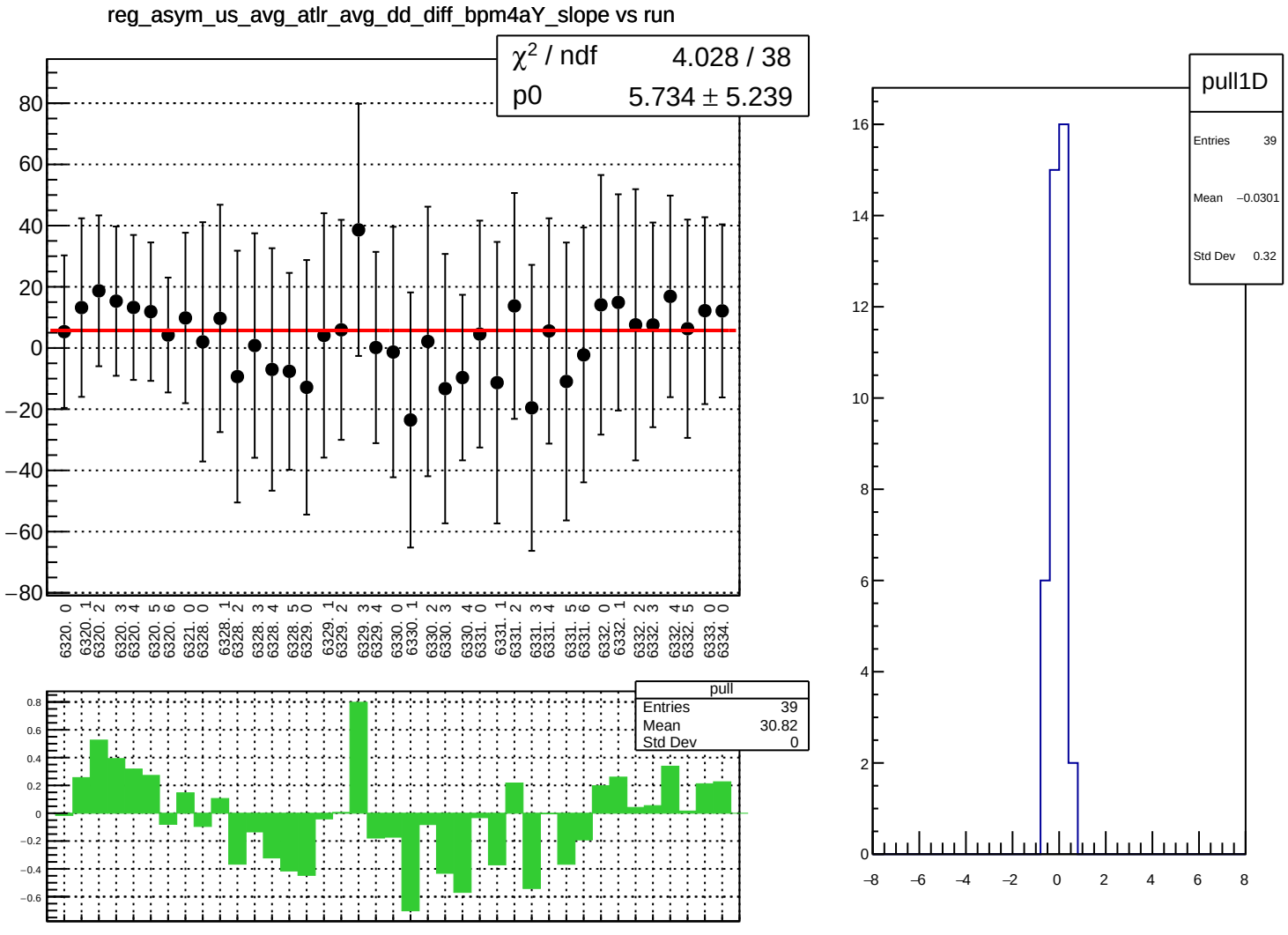

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.835 / 38
p0 483.1 ± 11.8
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.19
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.07997
Std Dev 0.4958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

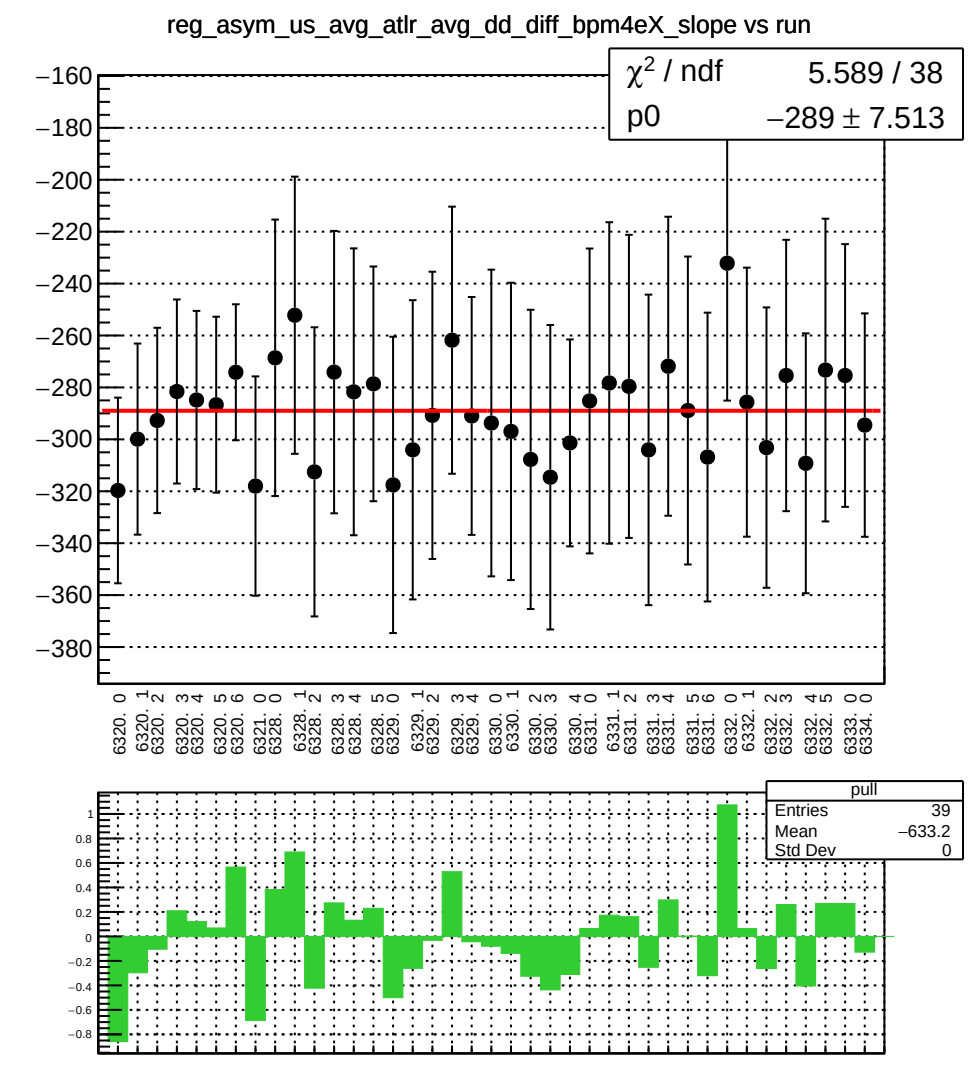

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.827 / 38
p0 92.02 ± 9.32
250
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 87.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean 0.03034
Std Dev 0.3853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

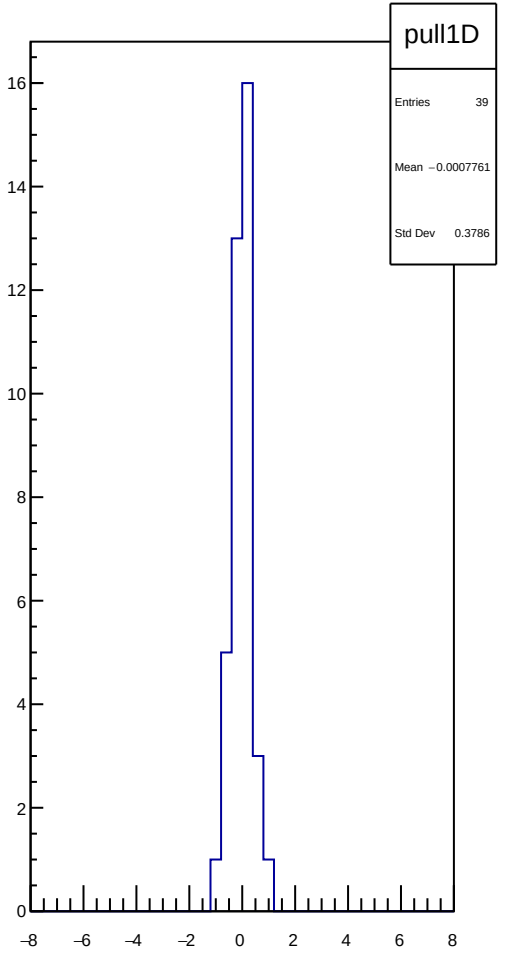

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 38
p0 −224.7 ± 0.4826
−205
−210
−215
−220
−225
−230
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.13
Std Dev 0
4
3
2
1
0
−1

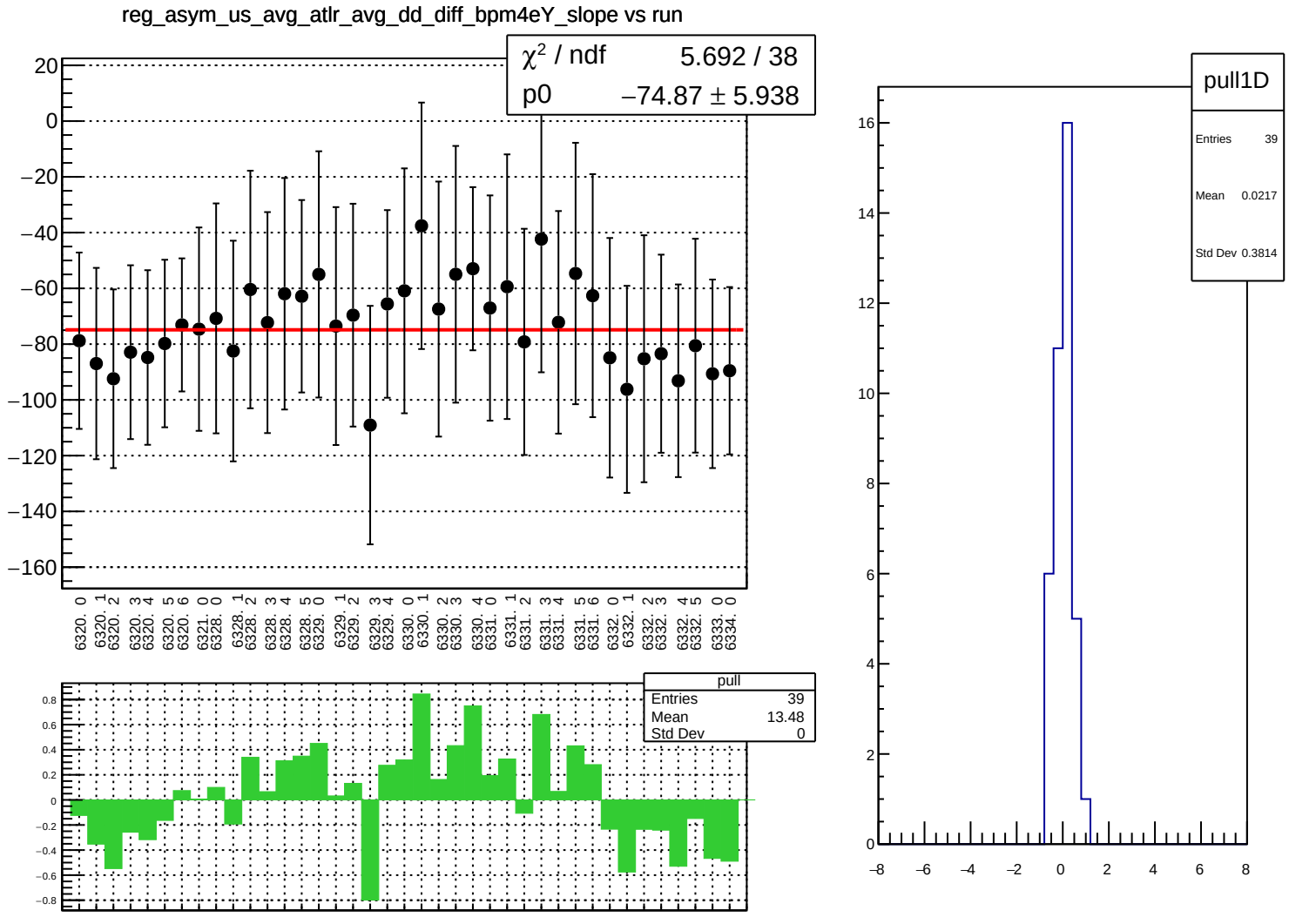

pull1D
Entries 39
Mean 0.1853
Std Dev 1.644
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

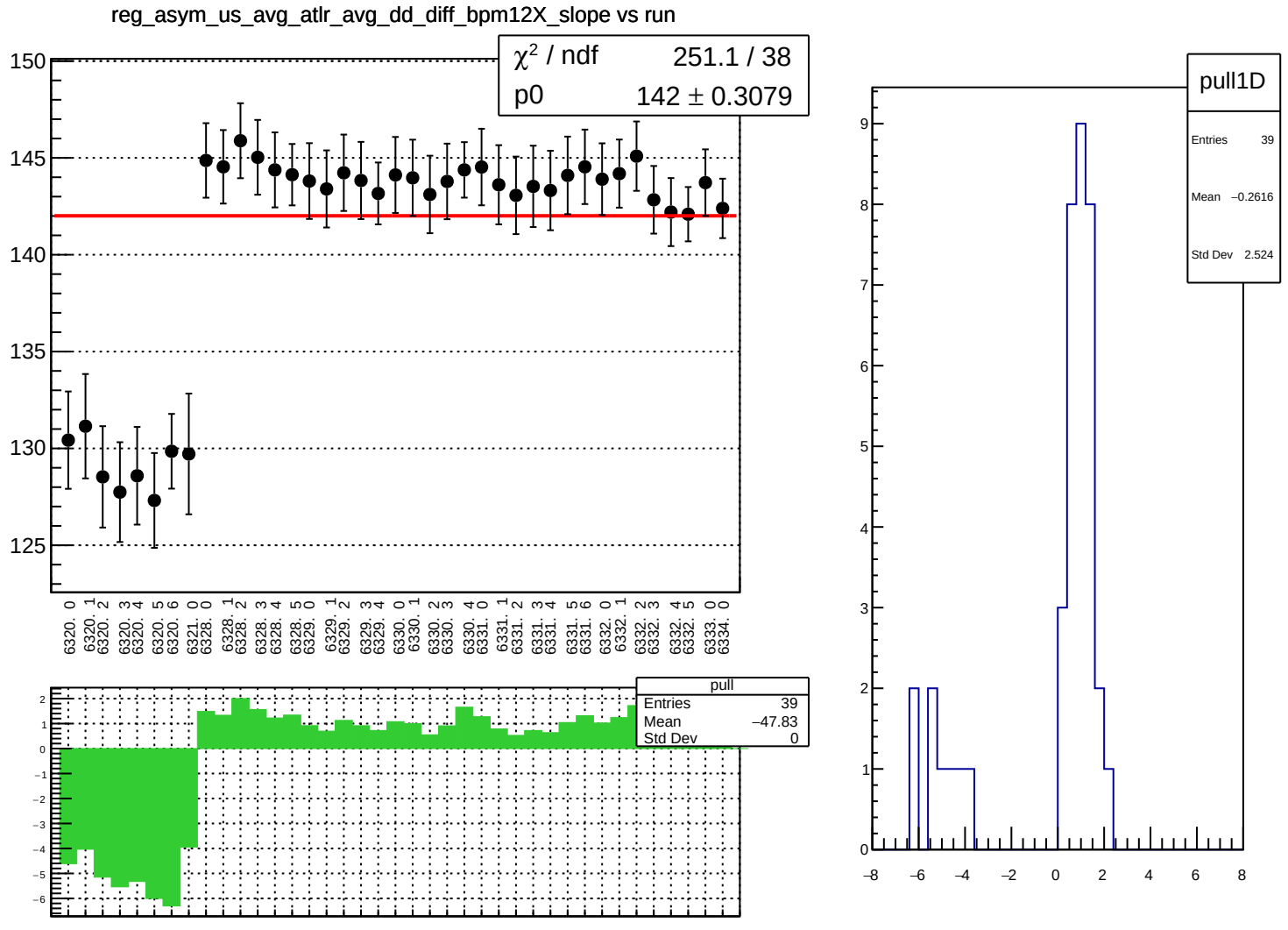

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.298 / 38
p0 261.6 ± 7.2
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −91.94
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean 0.004421
Std Dev 0.3686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

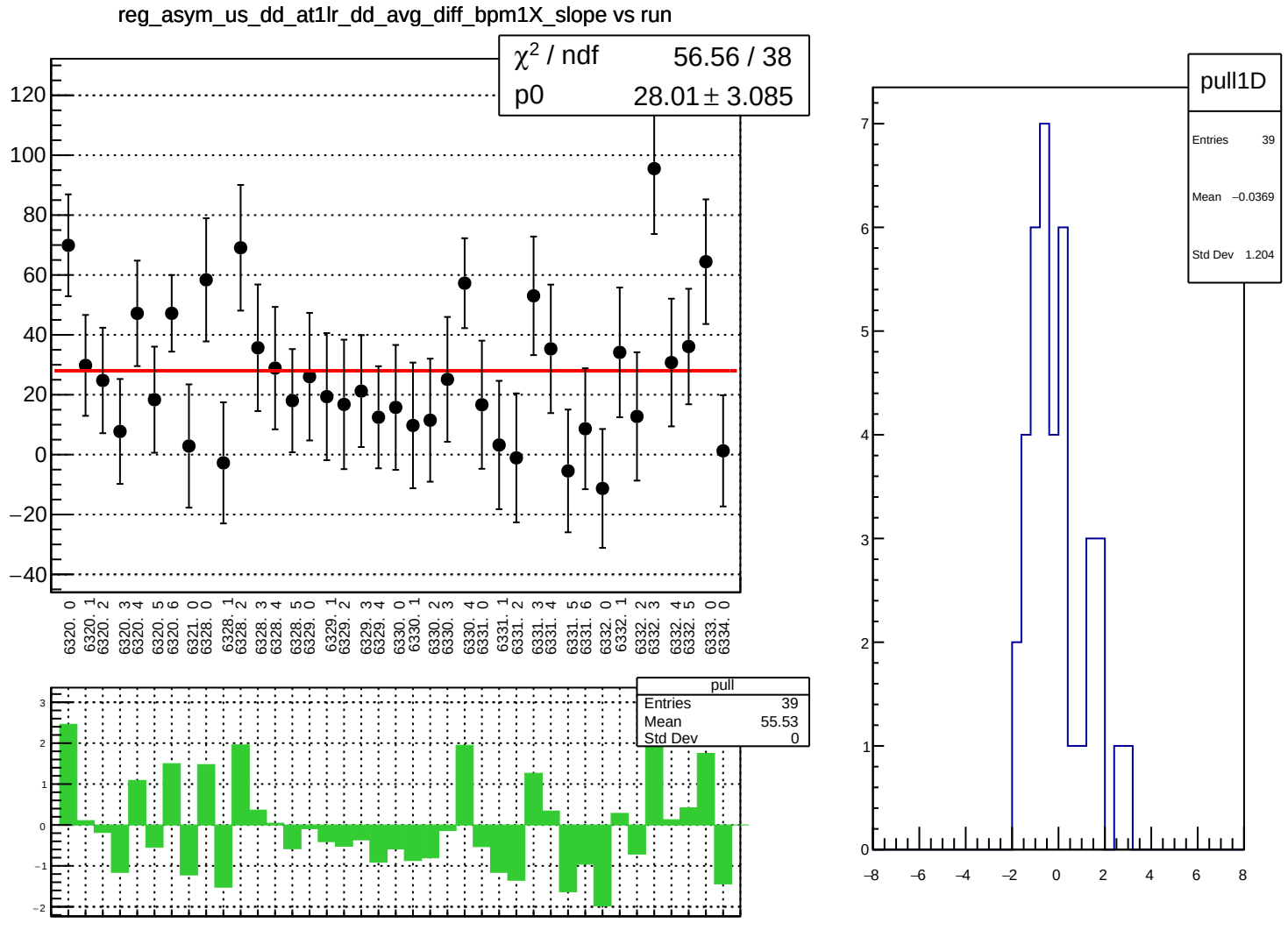

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.028 / 38
p0 5.734 ± 5.239
pull
Entries 39
Mean 30.82
Std Dev 0
pull1D
Entries 39
Mean −0.0301
Std Dev 0.32

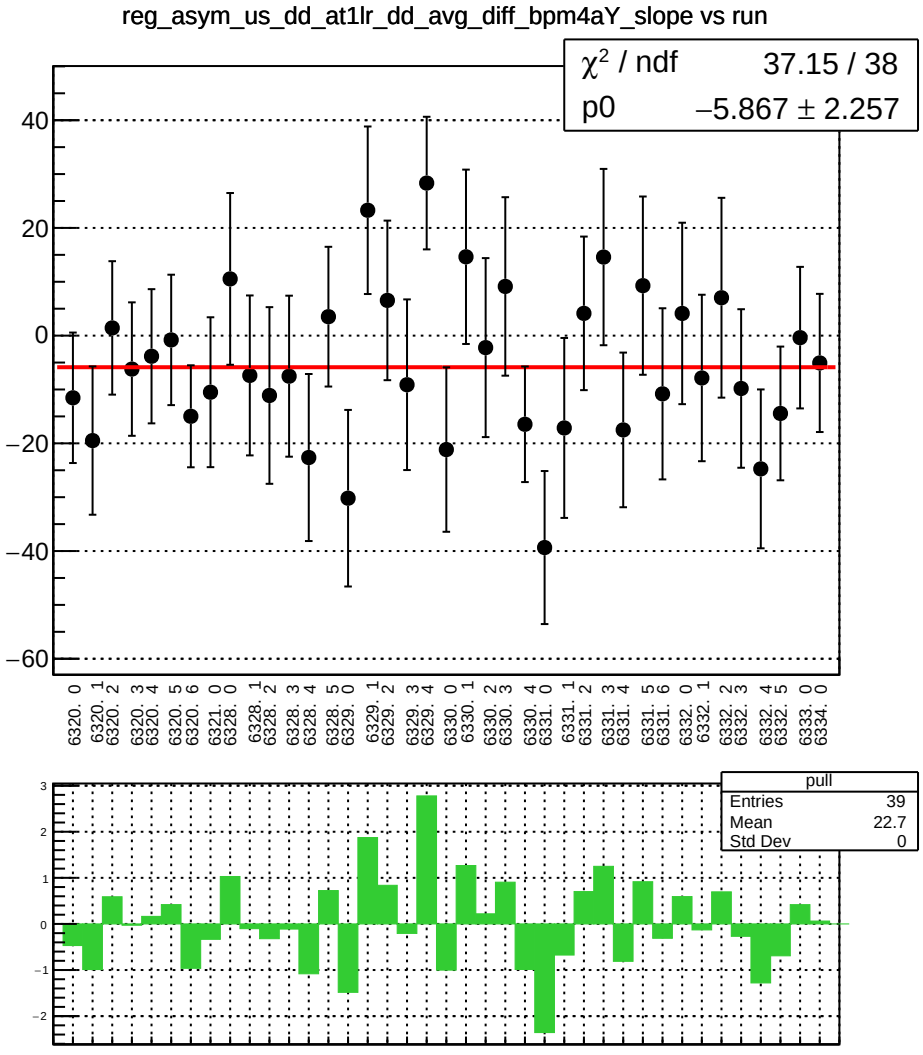

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.589 / 38
p0 −289 ± 7.513
pull
Entries 39
Mean −633.2
Std Dev 0

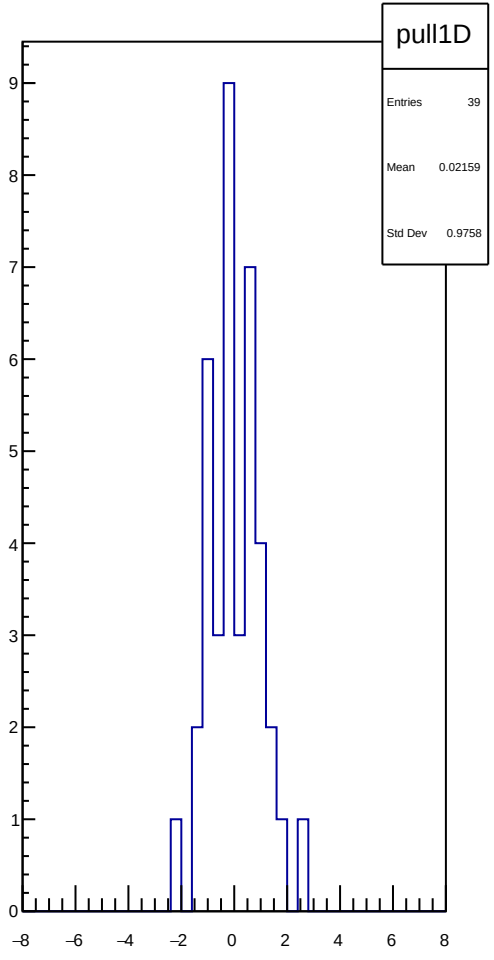

pull1D
Entries 39
Mean −0.0007761
Std Dev 0.3786

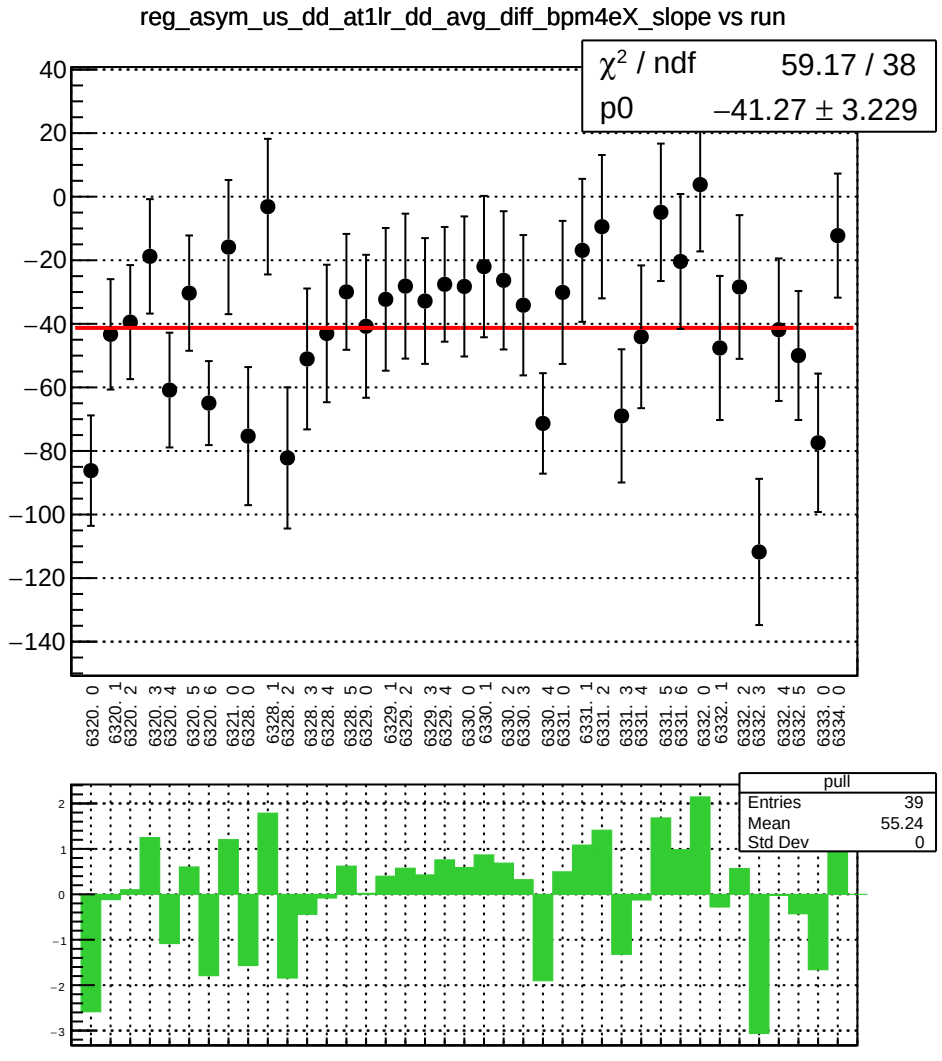

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.692 / 38
p0 −74.87 ± 5.938
pull
Entries 39
Mean 13.48
Std Dev 0
pull1D
Entries 39
Mean 0.0217
Std Dev 0.3814

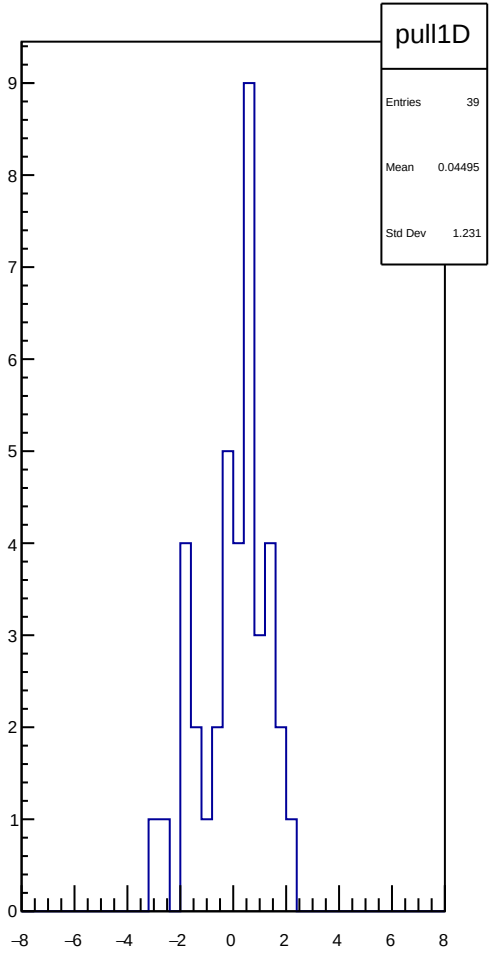

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 251.1 / 38
p0 142 ± 0.3079
150
145
140
135
130
125
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.83
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 39
Mean −0.2616
Std Dev 2.524
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

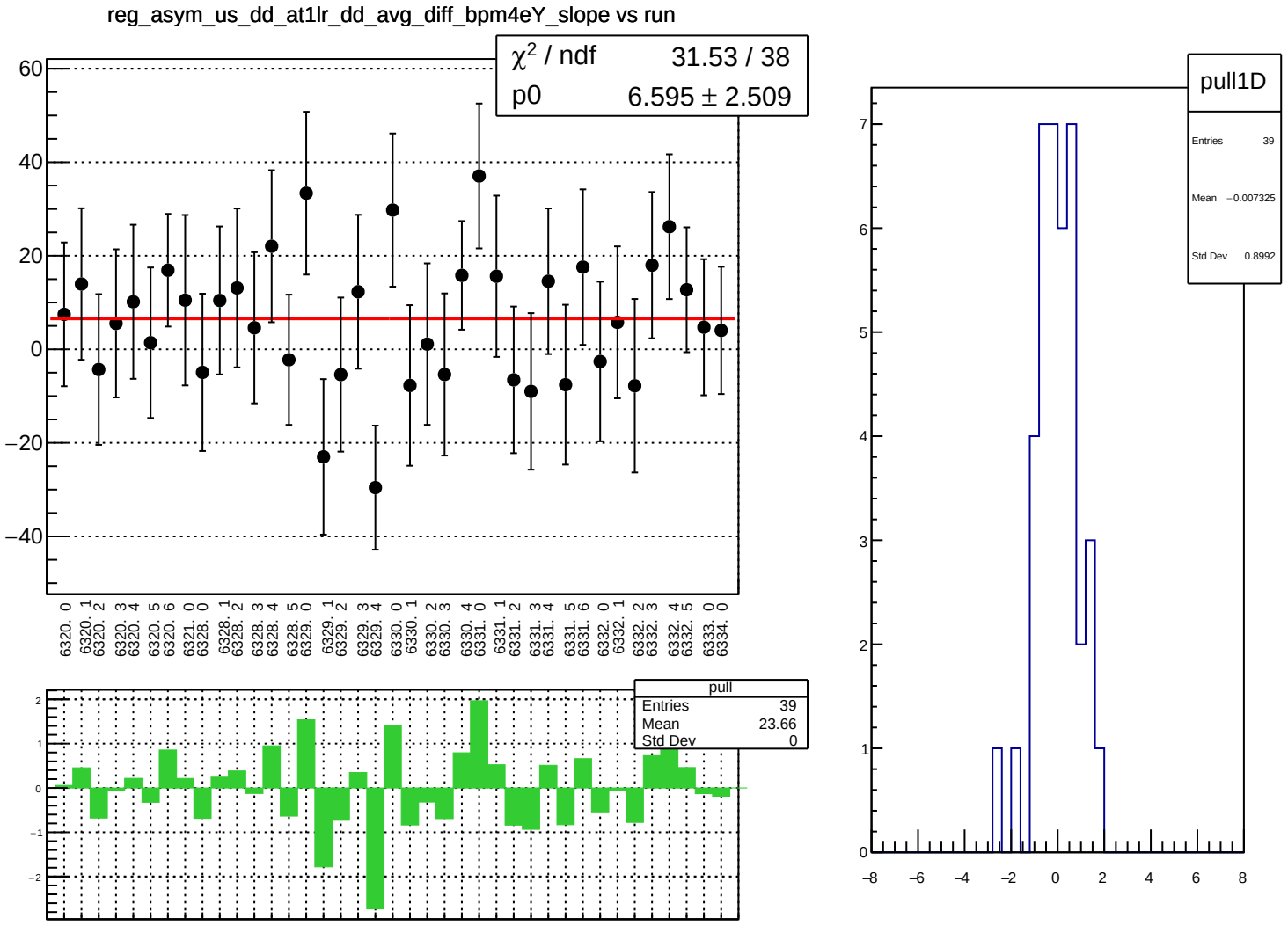

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 56.56 / 38
p0 28.01 ± 3.085
120
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 55.53
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.0369
Std Dev 1.204
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

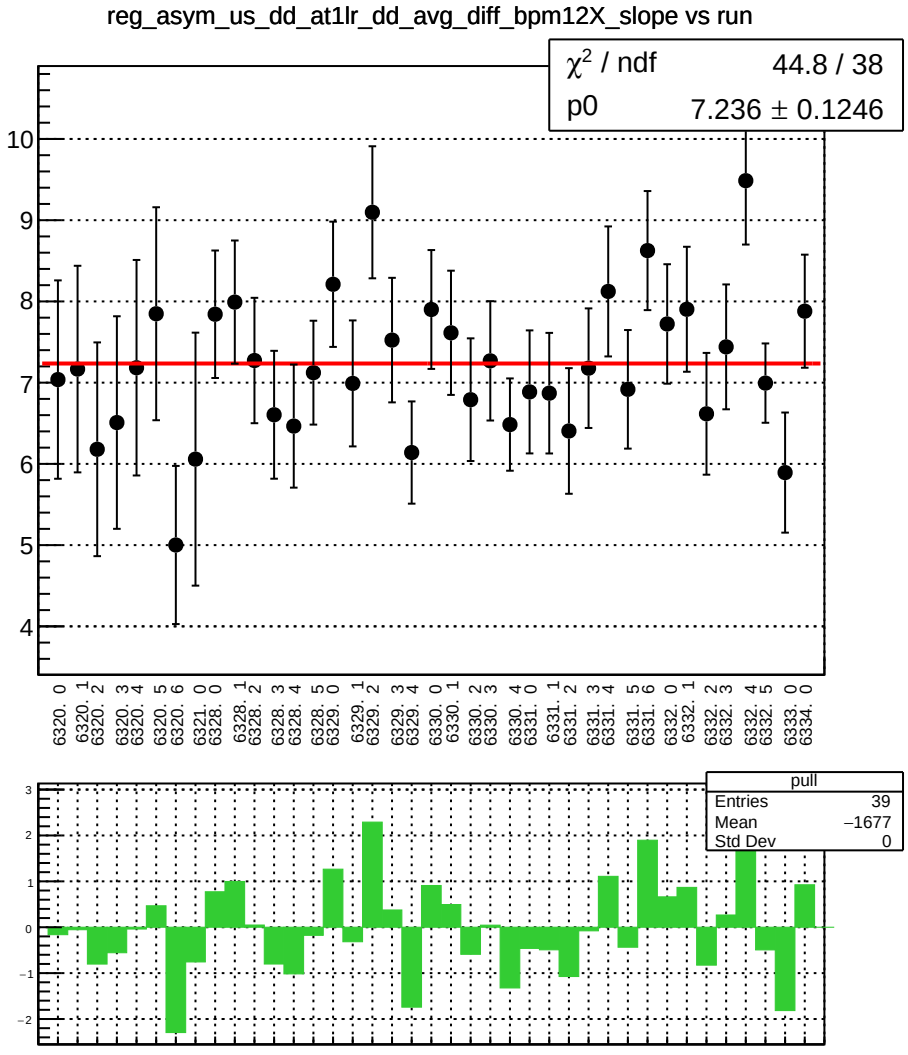

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.15 / 38
p0 −5.867 ± 2.257
pull
Entries 39
Mean 22.7
Std Dev 0

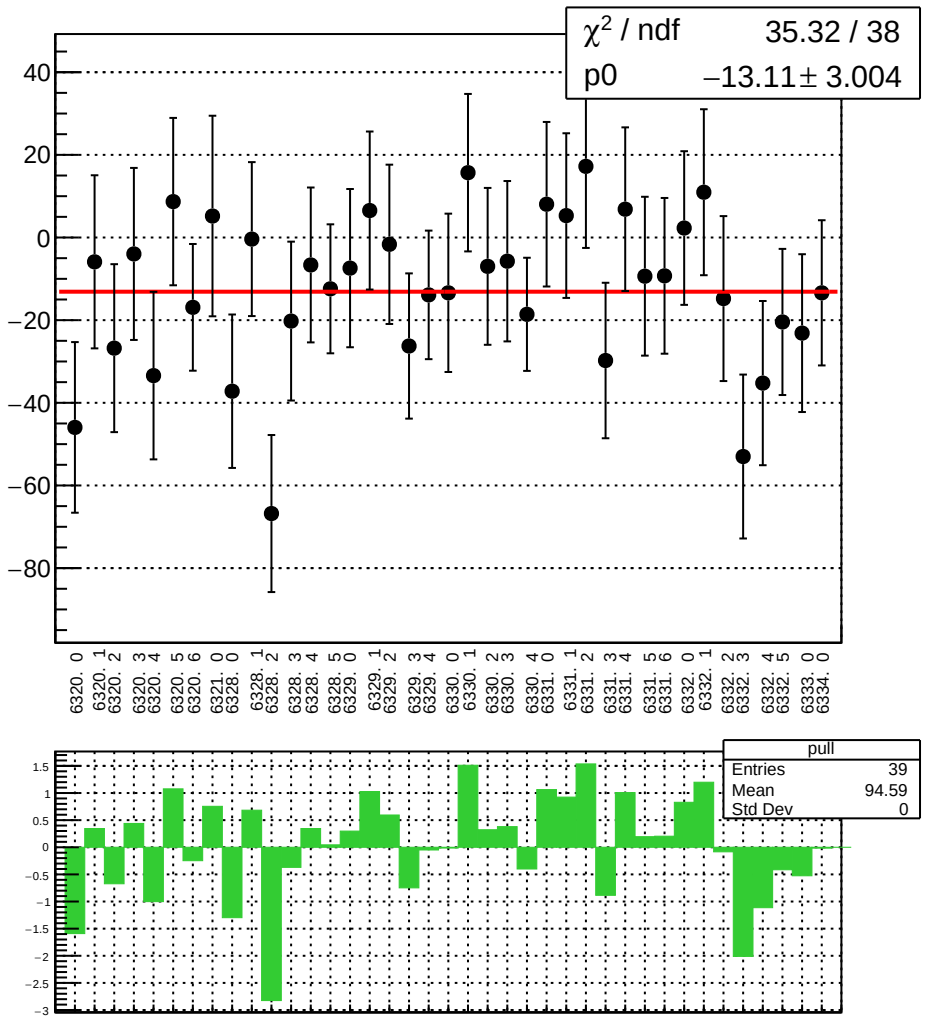

pull1D
Entries 39
Mean 0.02159
Std Dev 0.9758

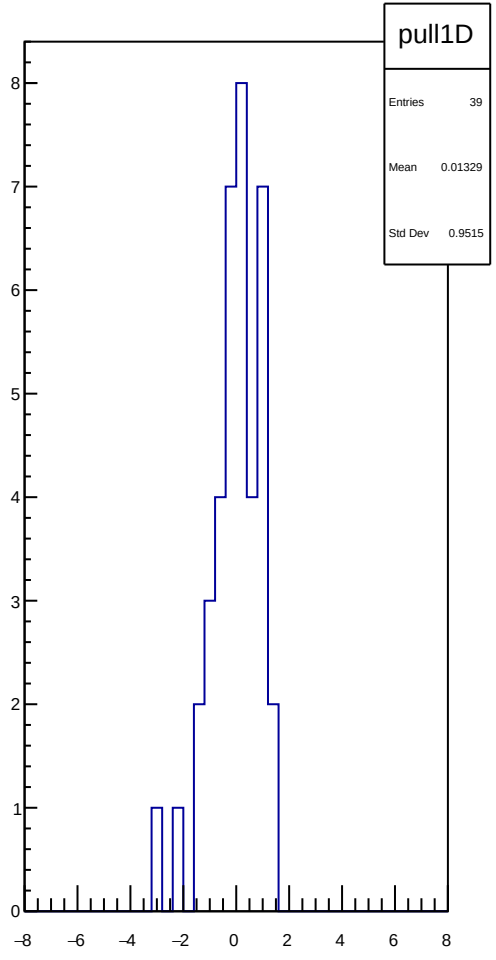

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.17 / 38
p0 −41.27 ± 3.229
pull
Entries 39
Mean 55.24
Std Dev 0

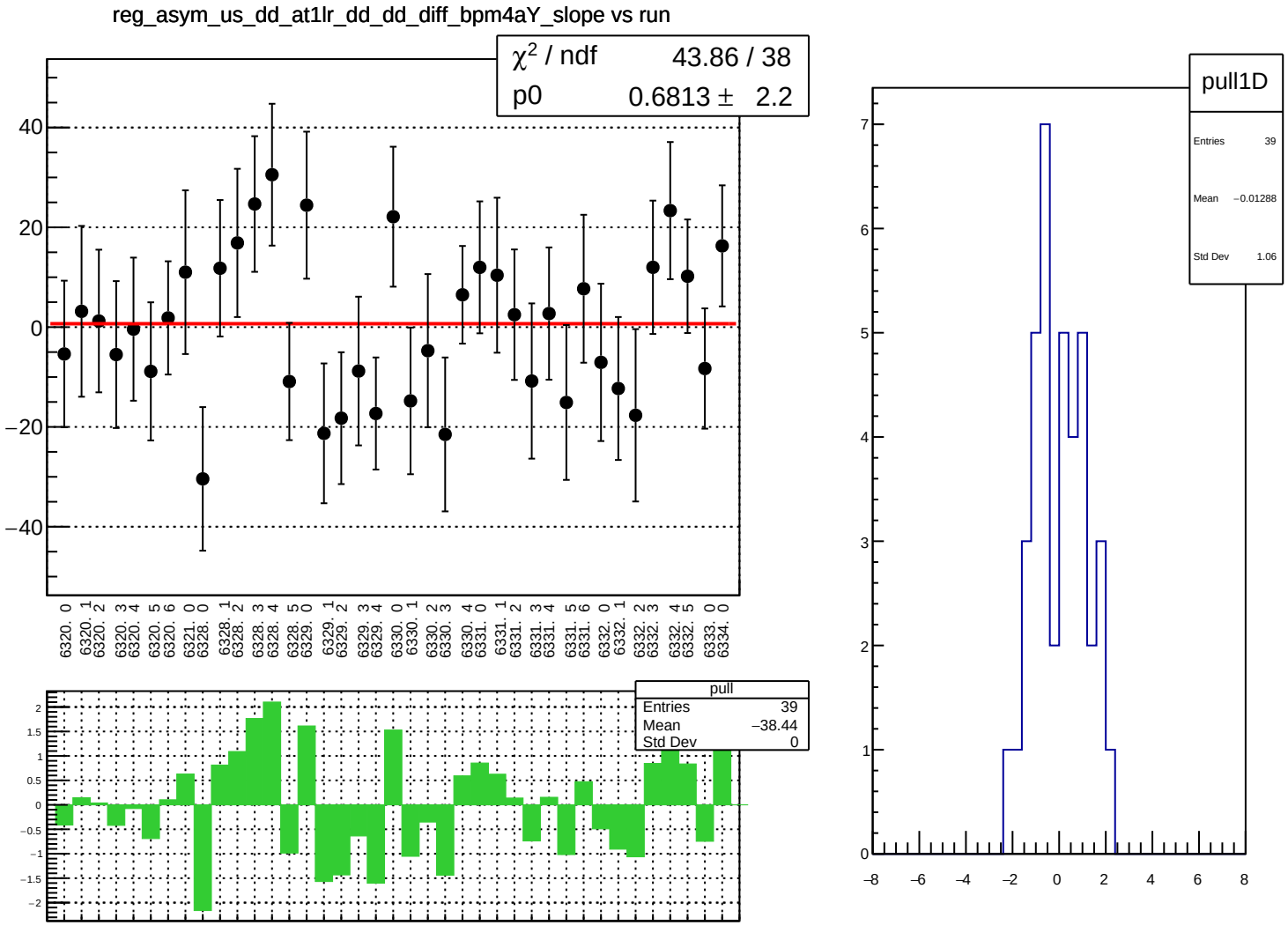

pull1D
Entries 39
Mean 0.04495
Std Dev 1.231

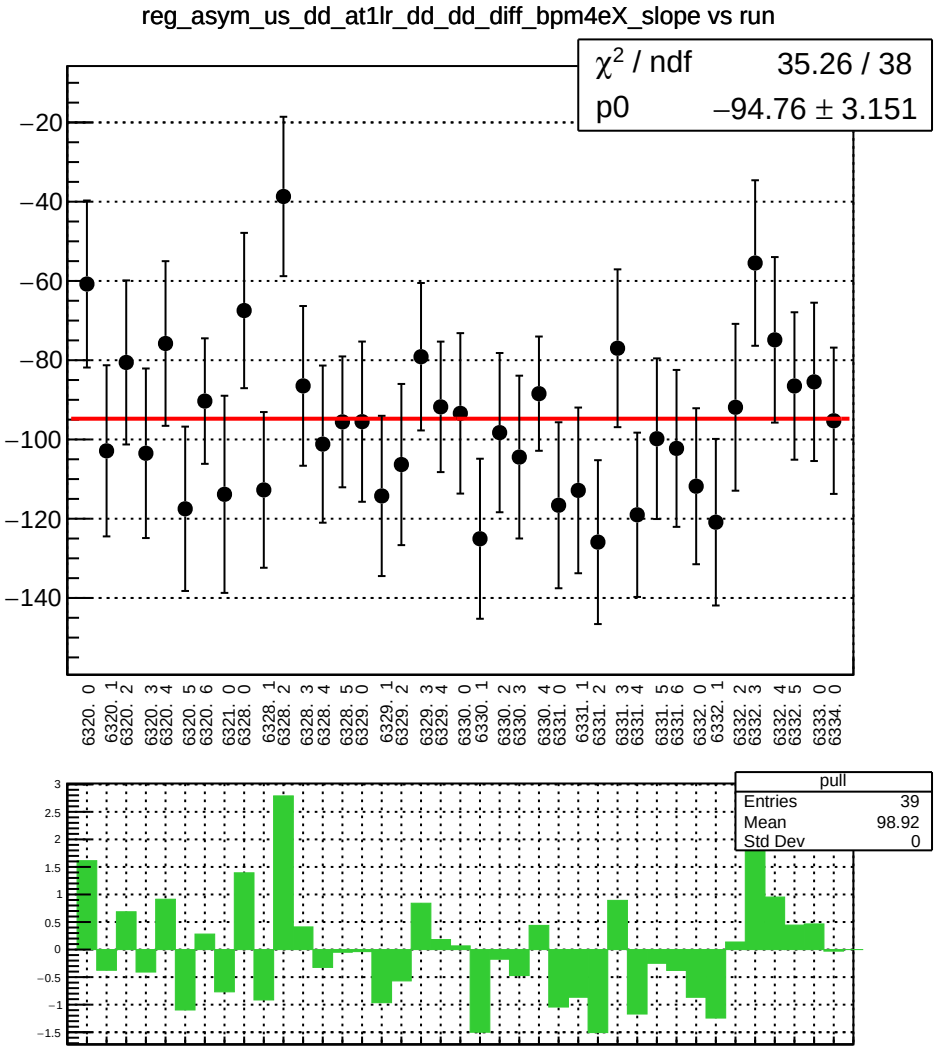

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.53 / 38
p0 6.595 ± 2.509
pull
Entries 39
Mean −23.66
Std Dev 0
pull1D
Entries 39
Mean −0.007325
Std Dev 0.8992

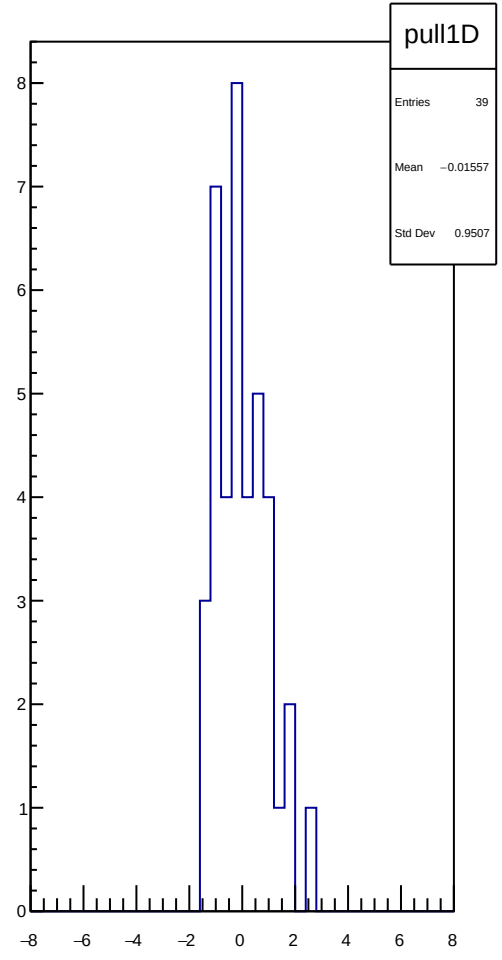

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 44.8 / 38
p0 7.236 ± 0.1246
pull
Entries 39
Mean −1677
Std Dev 0
pull1D
Entries 39
Mean −0.001292
Std Dev 1.072

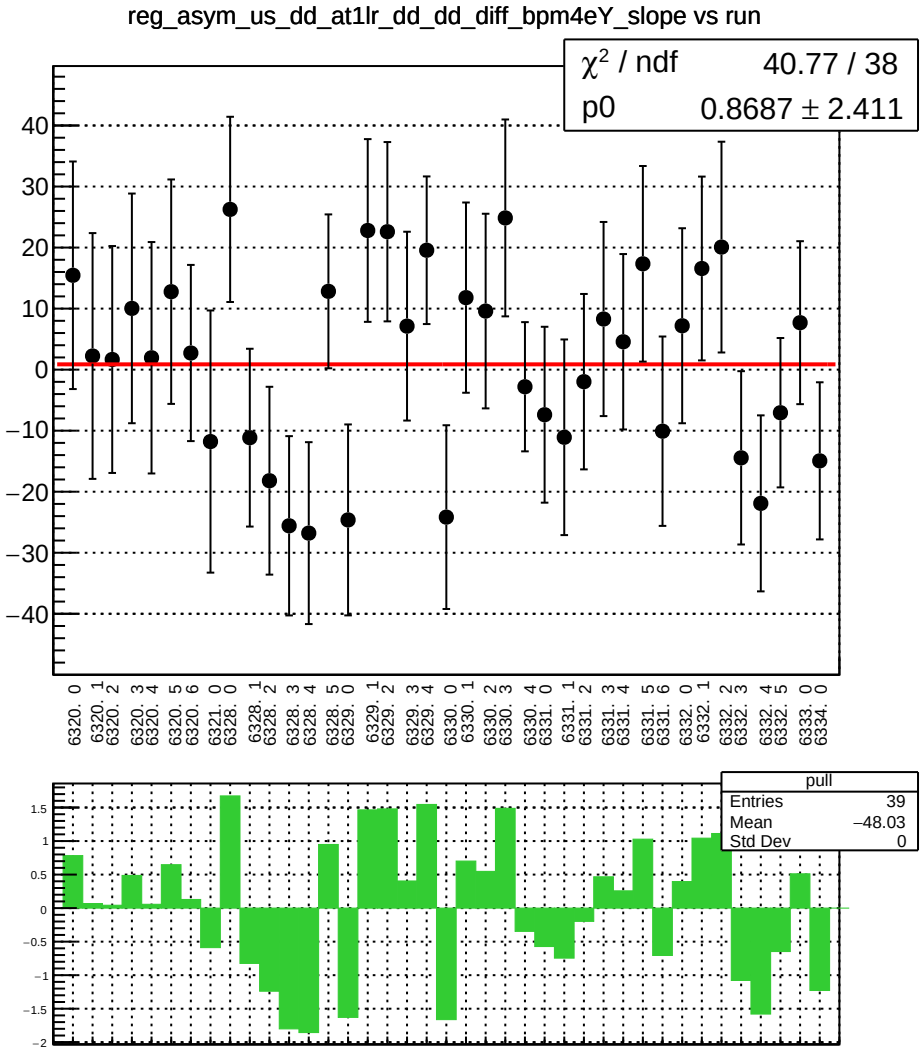

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 35.32 / 38
p0 −13.11± 3.004
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 94.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

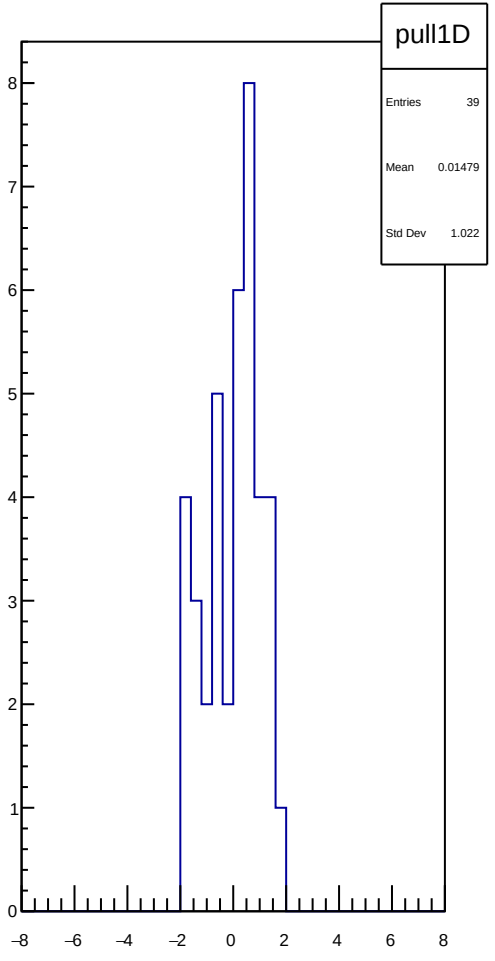

pull1D
Entries 39
Mean 0.01329
Std Dev 0.9515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

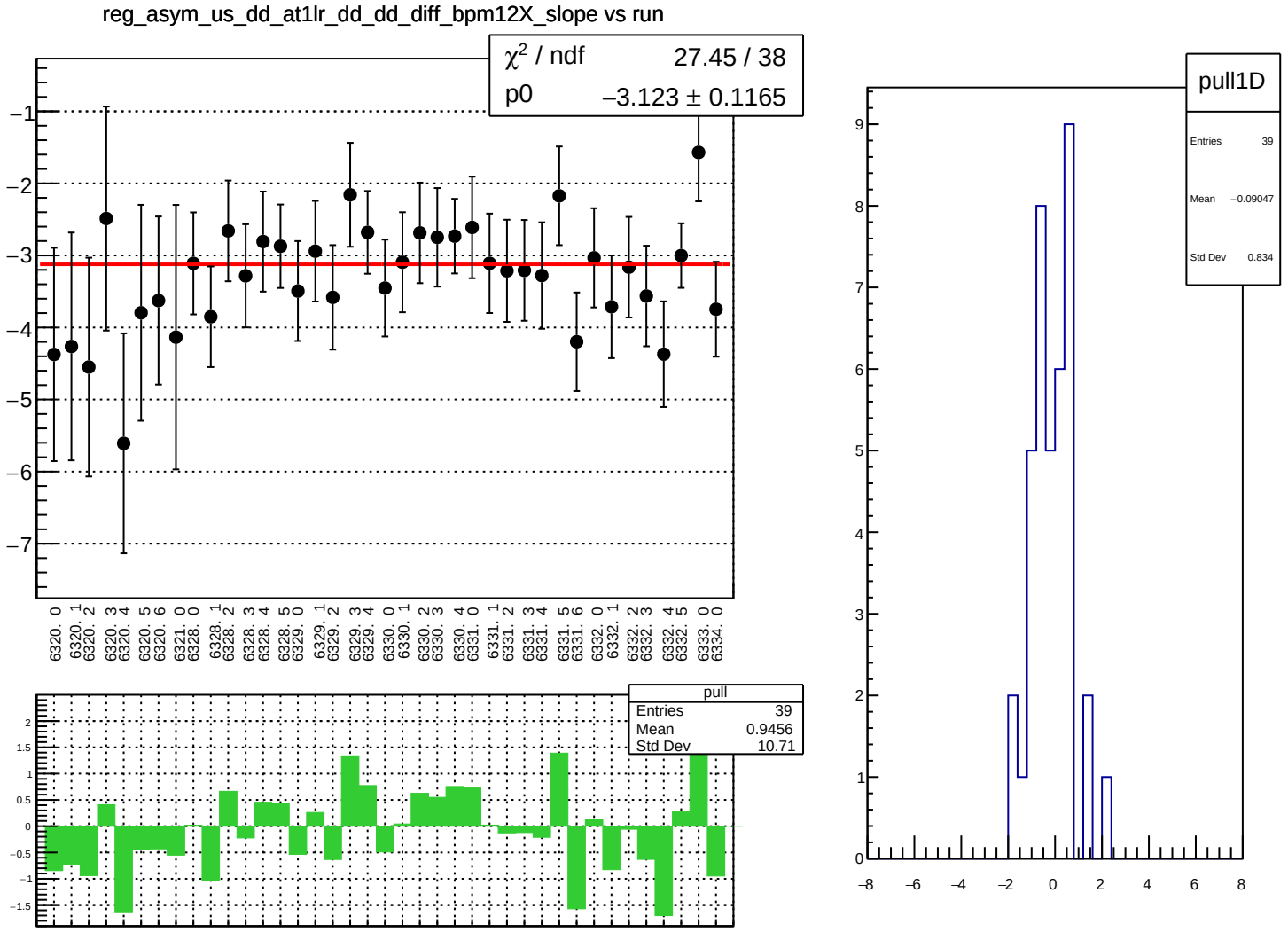

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.86 / 38
p0 0.6813 ± 2.2
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01288
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

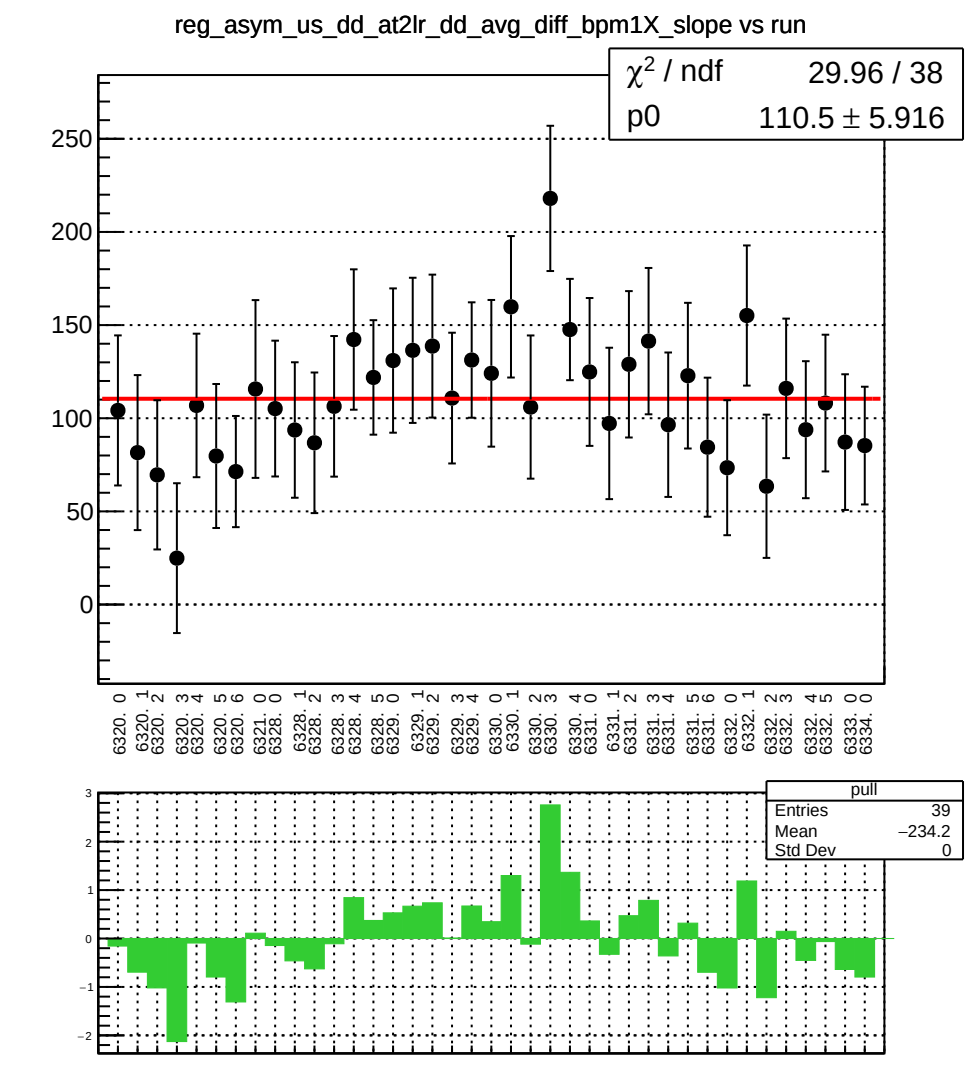

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.26 / 38
p0 −94.76 ± 3.151
pull
Entries 39
Mean 98.92
Std Dev 0

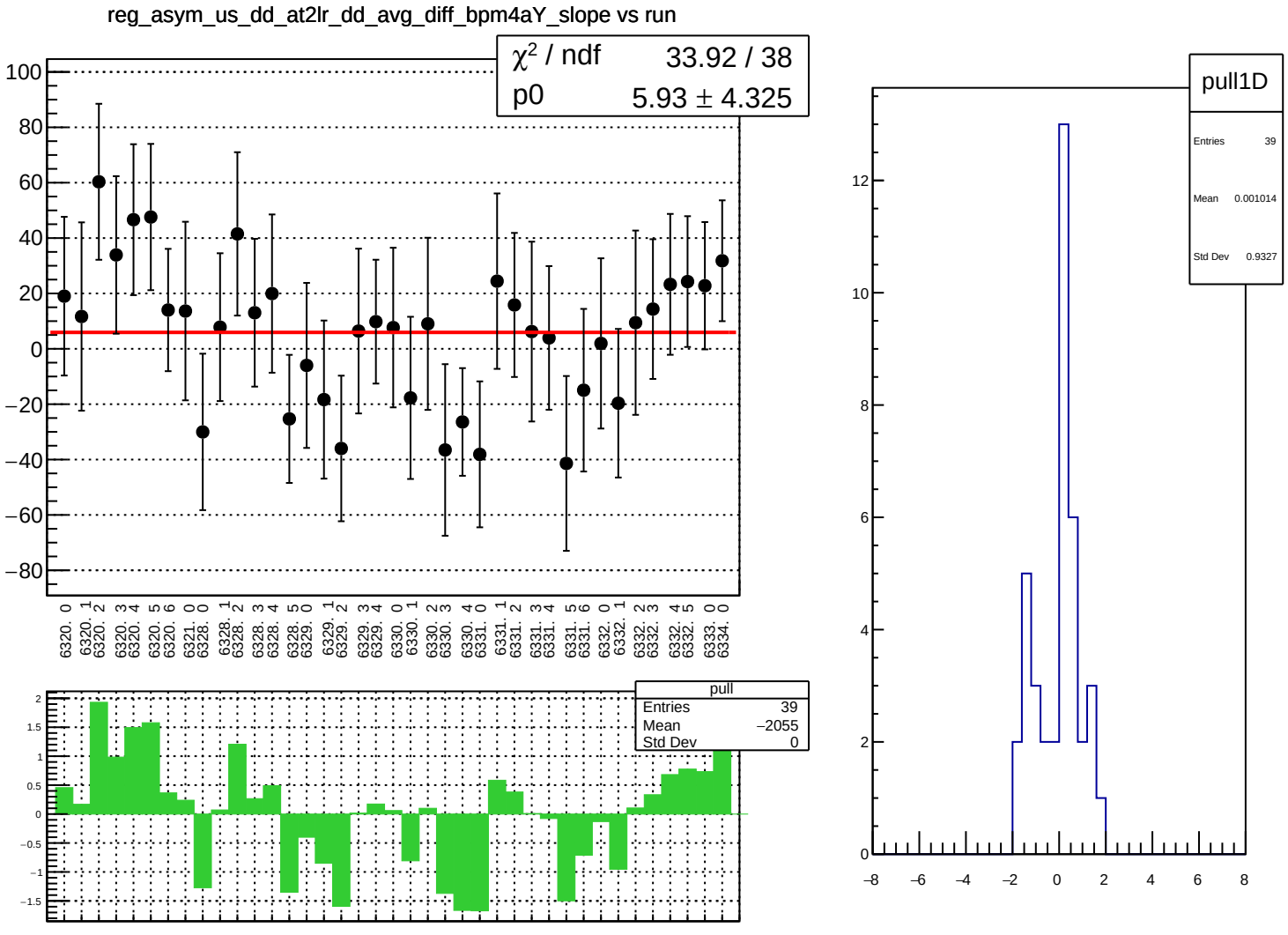

pull1D
Entries 39
Mean −0.01557
Std Dev 0.9507

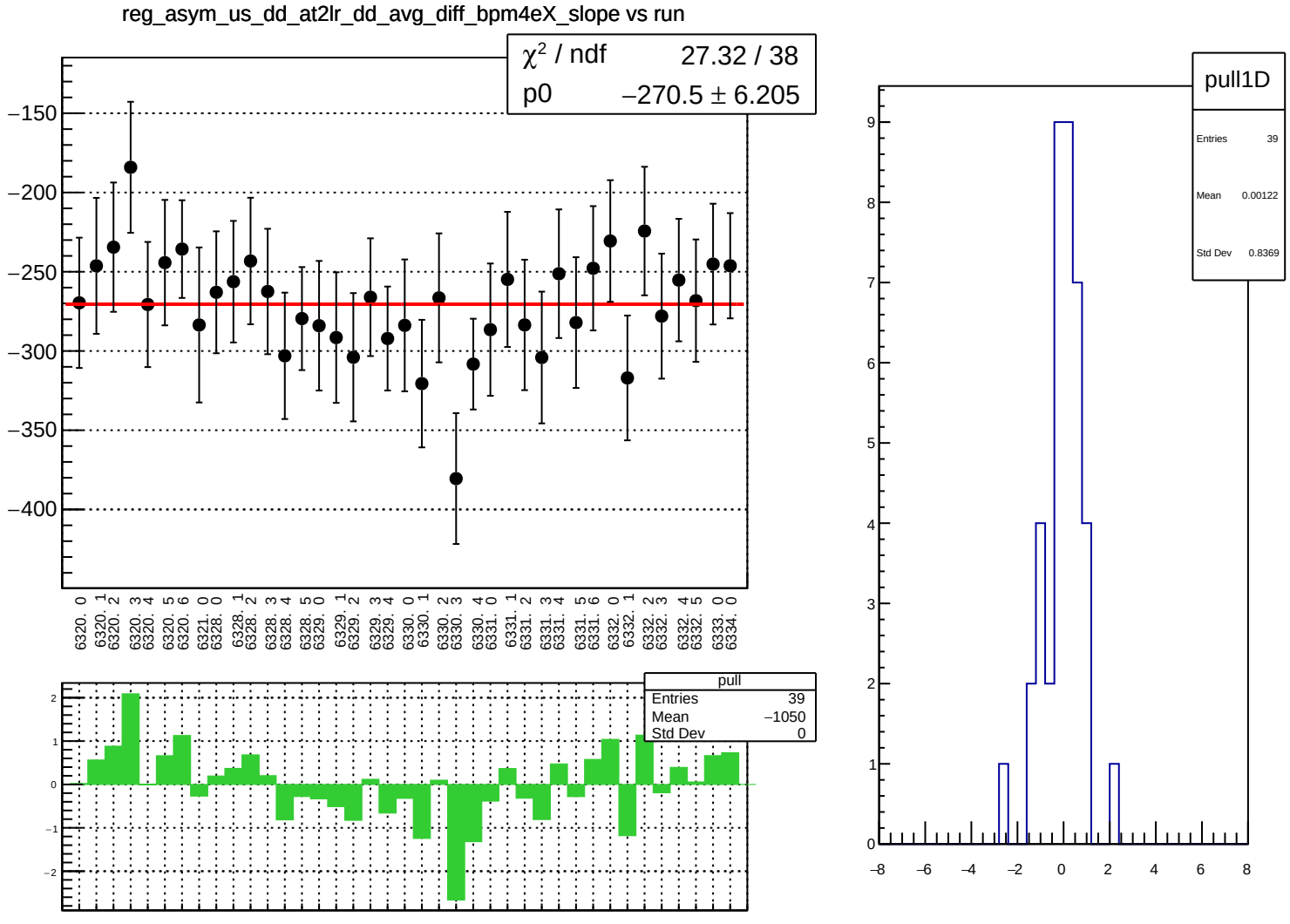

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.77 / 38
p0 0.8687 ± 2.411
pull
Entries 39
Mean −48.03
Std Dev 0

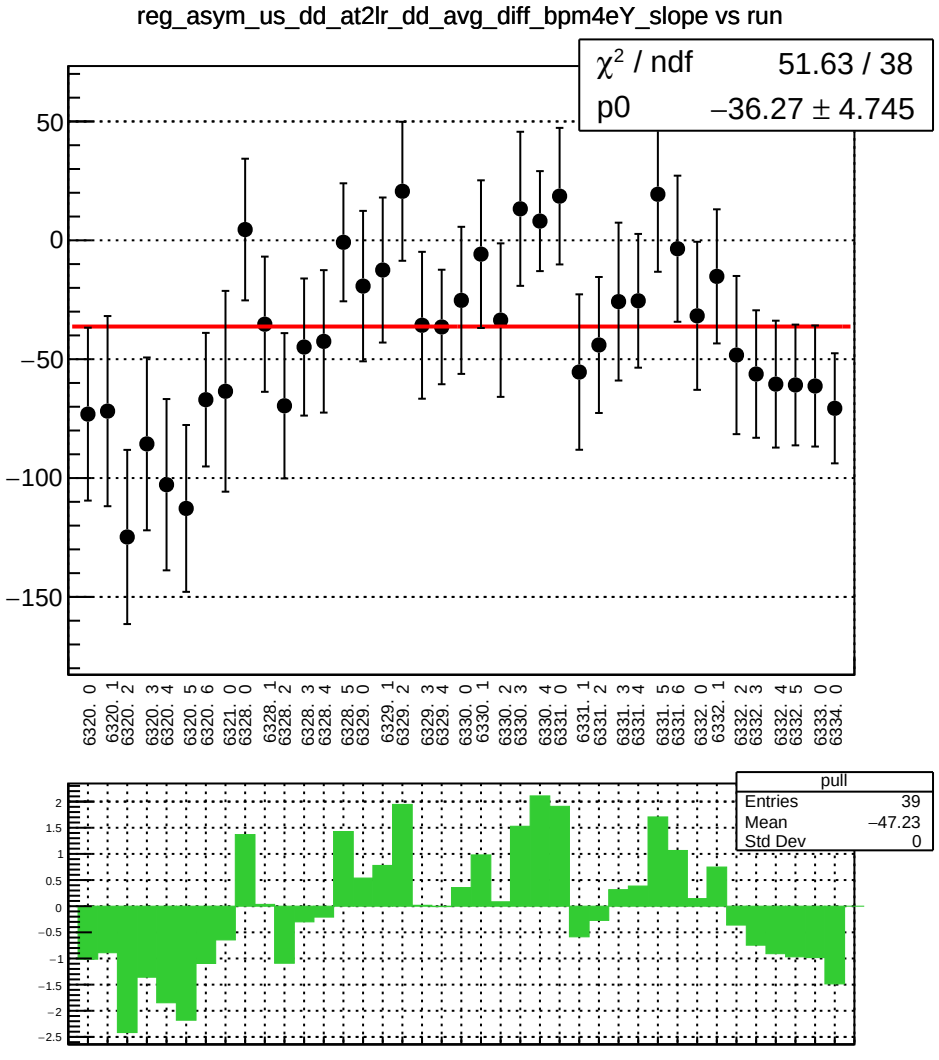

pull1D
Entries 39
Mean 0.01479
Std Dev 1.022

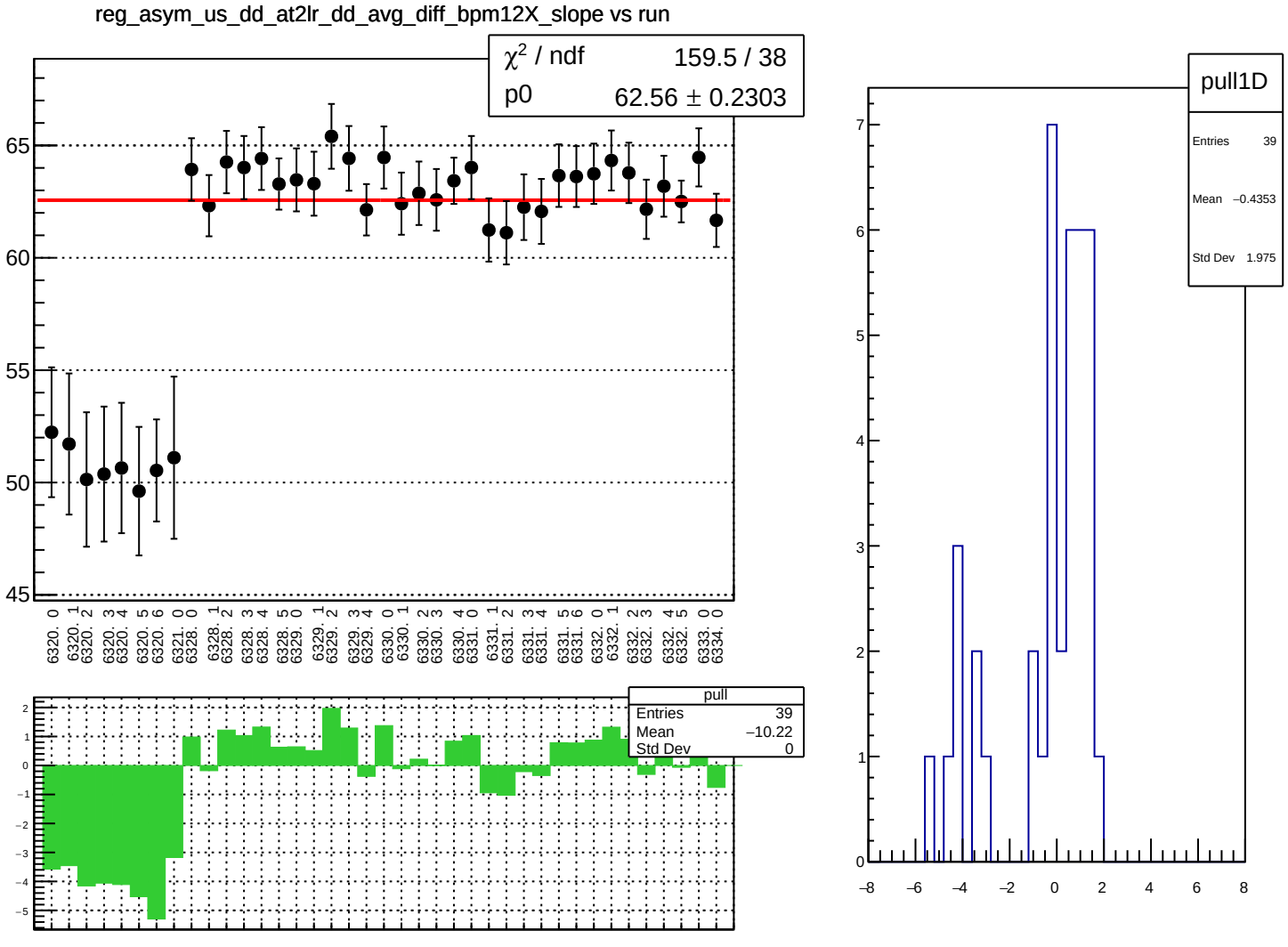

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 27.45 / 38
p0 −3.123 ± 0.1165
pull
Entries 39
Mean 0.9456
Std Dev 10.71
pull1D
Entries 39
Mean −0.09047
Std Dev 0.834

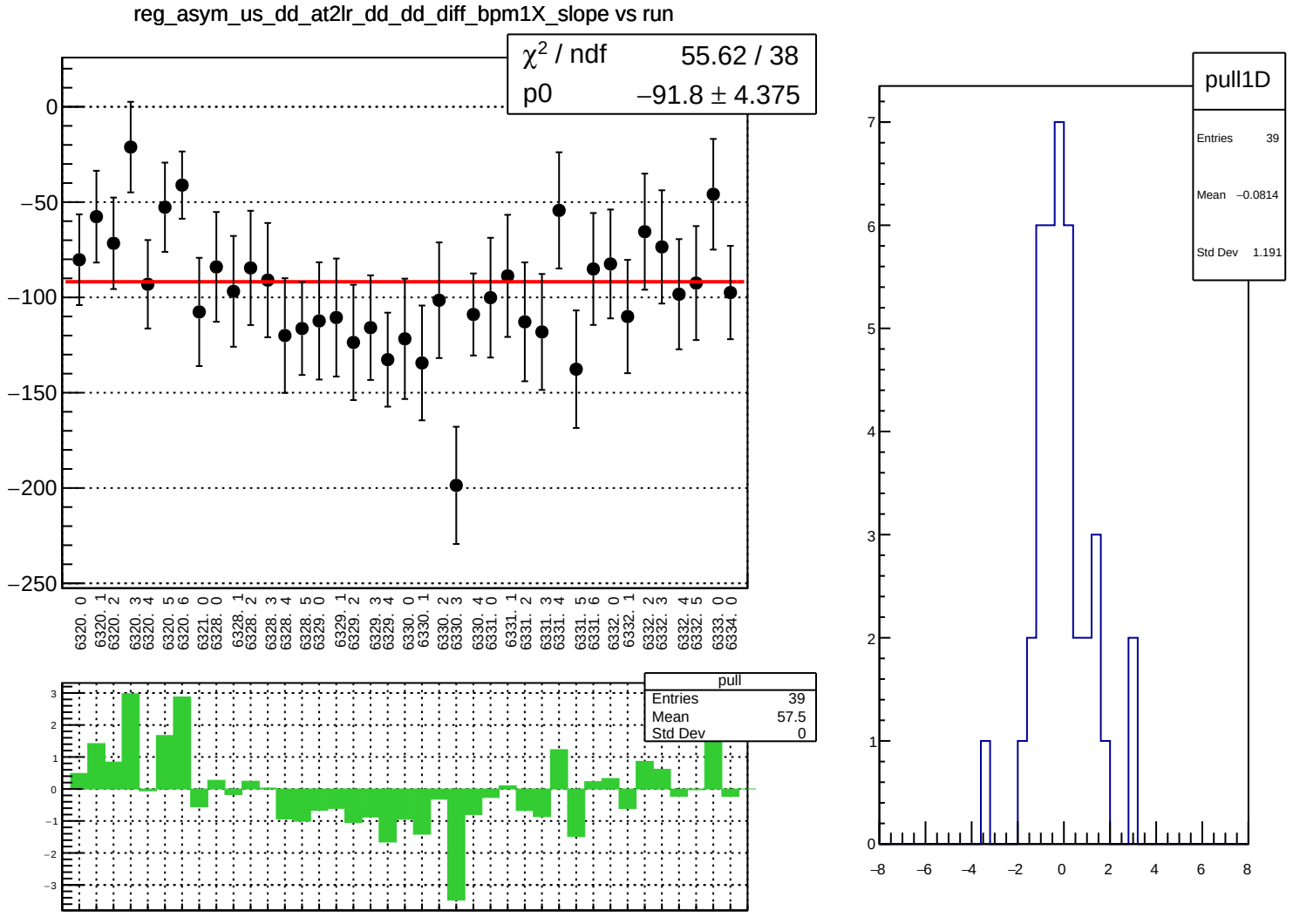

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.96 / 38
p0 110.5 ± 5.916
250
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −234.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.0062
Std Dev 0.8765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

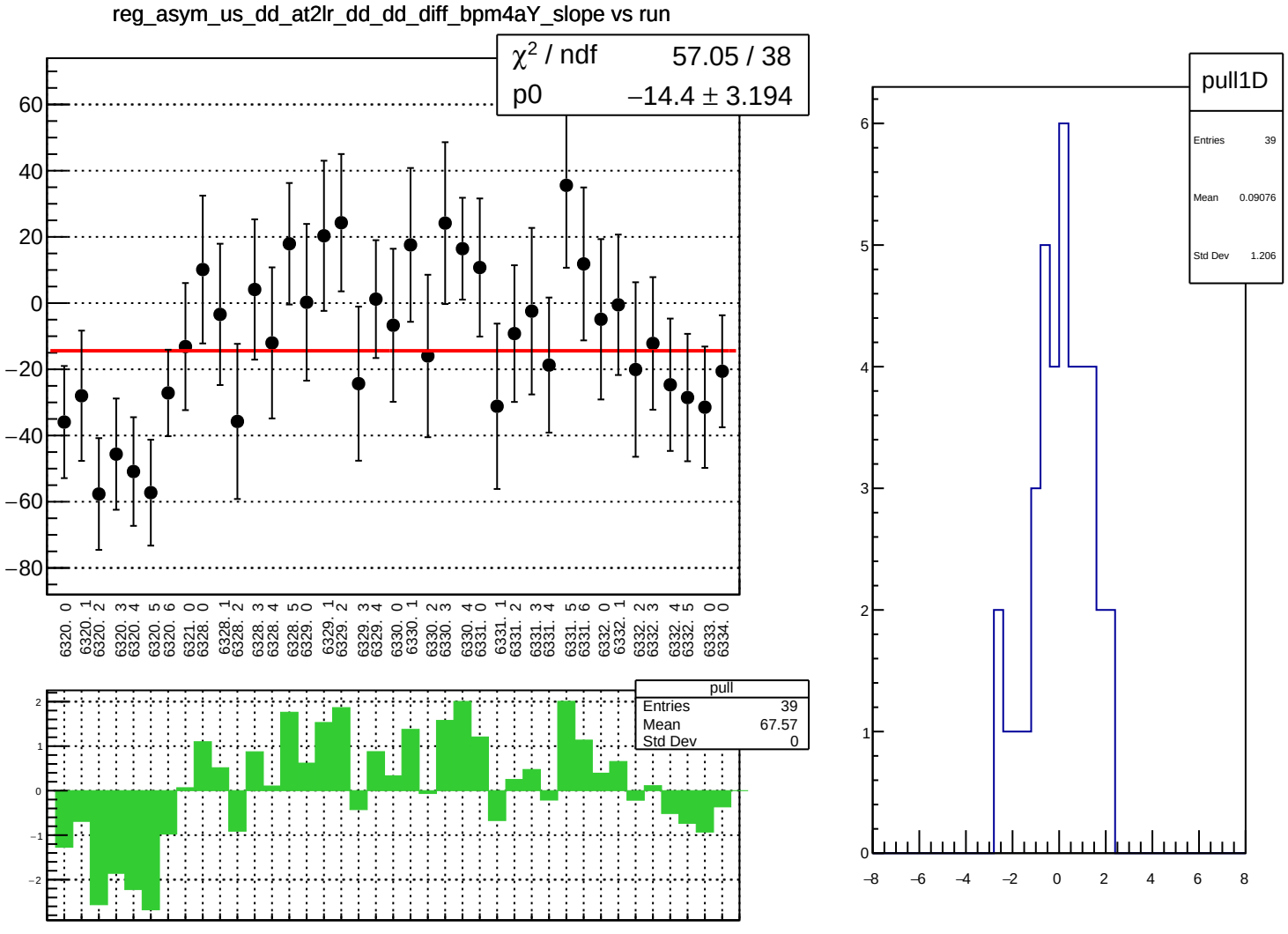

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.92 / 38
p0 5.93 ± 4.325
pull
Entries 39
Mean −2055
Std Dev 0
pull1D
Entries 39
Mean 0.001014
Std Dev 0.9327

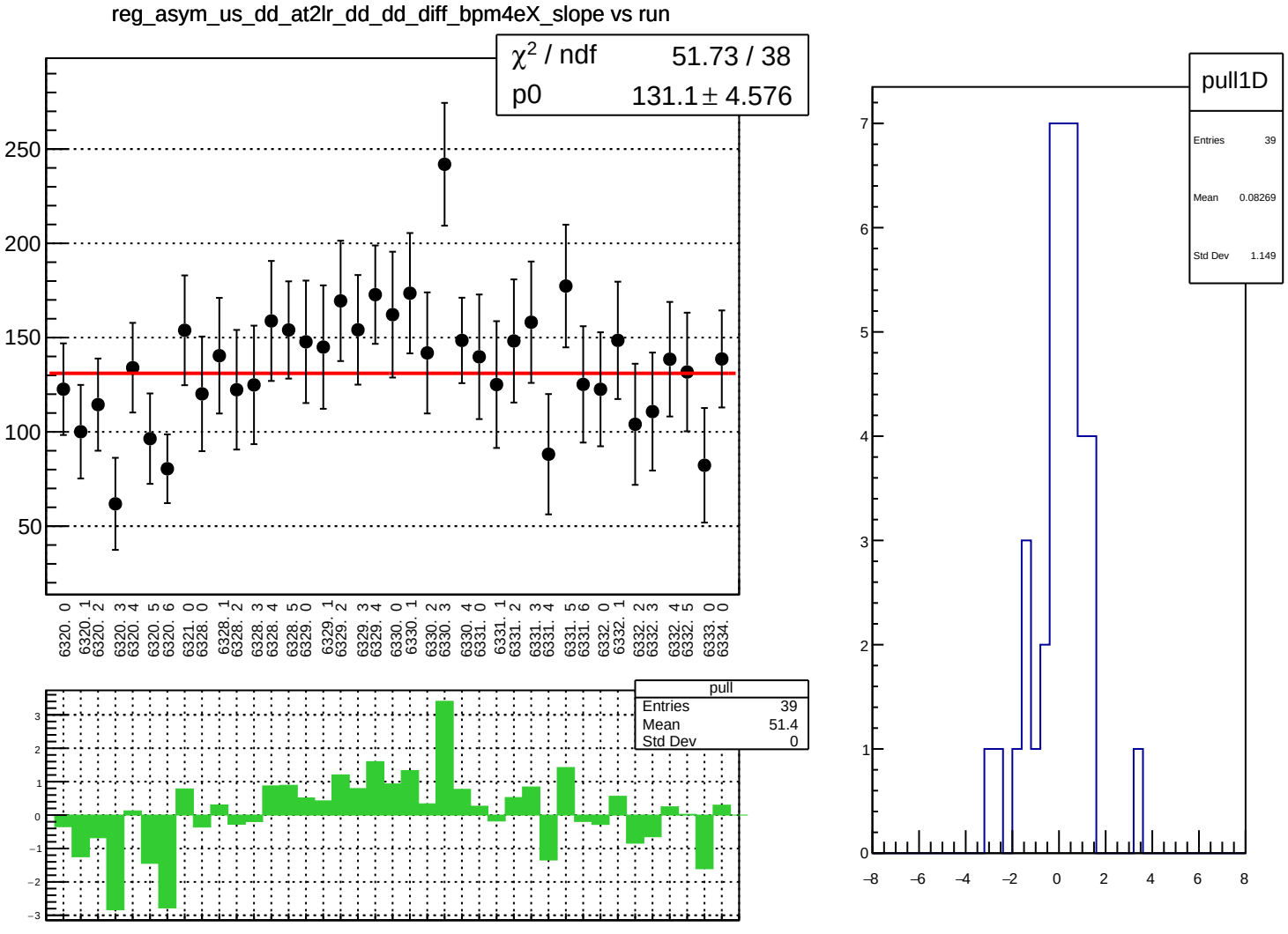

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.32 / 38
p0 −270.5 ± 6.205
−150
−200
−250
−300
−350
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1050
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.00122
Std Dev 0.8369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

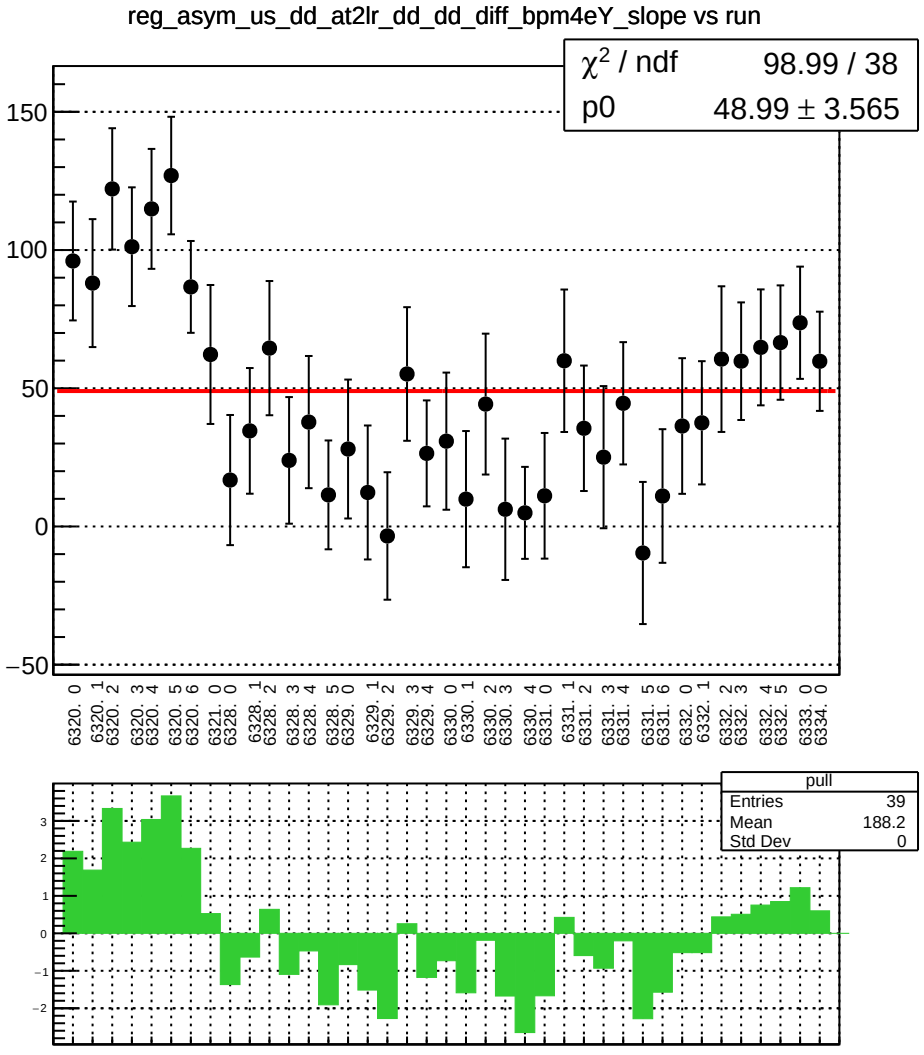

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.63 / 38
p0 −36.27 ± 4.745
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −47.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.04907
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

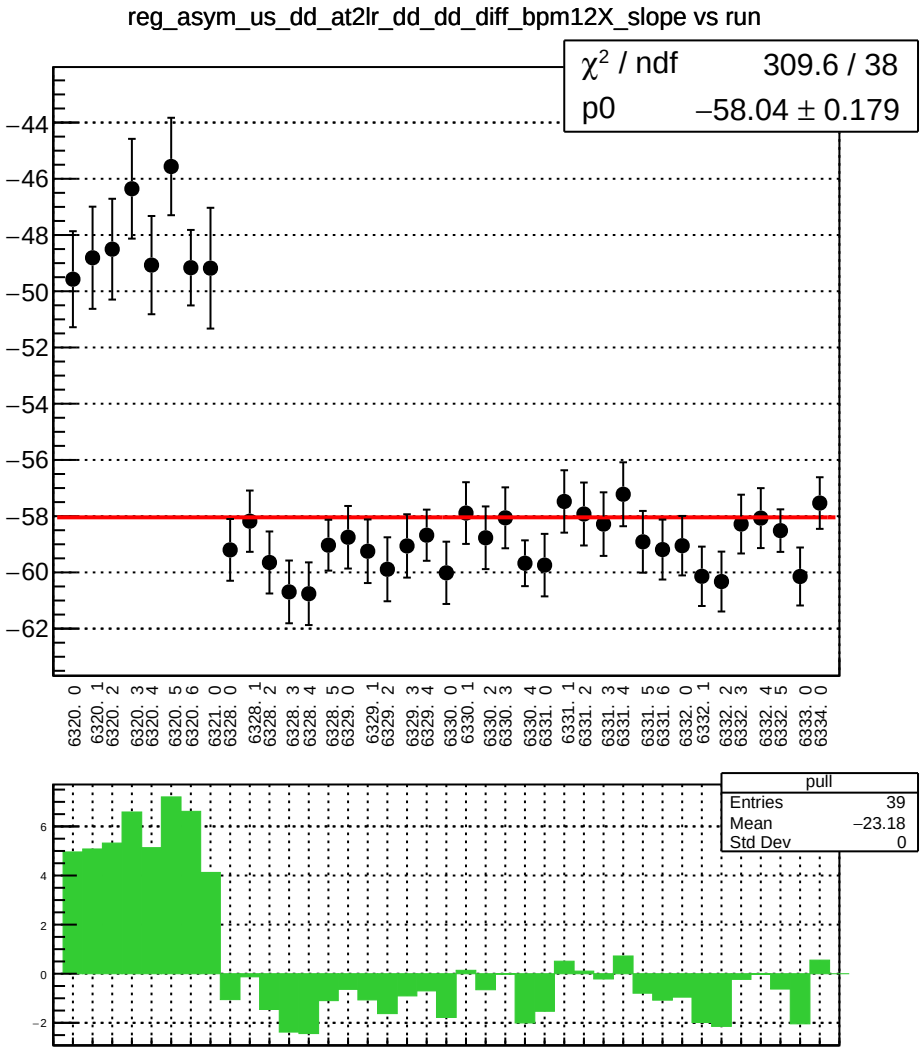

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 159.5 / 38
p0 62.56 ± 0.2303
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −10.22
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 39
Mean −0.4353
Std Dev 1.975
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

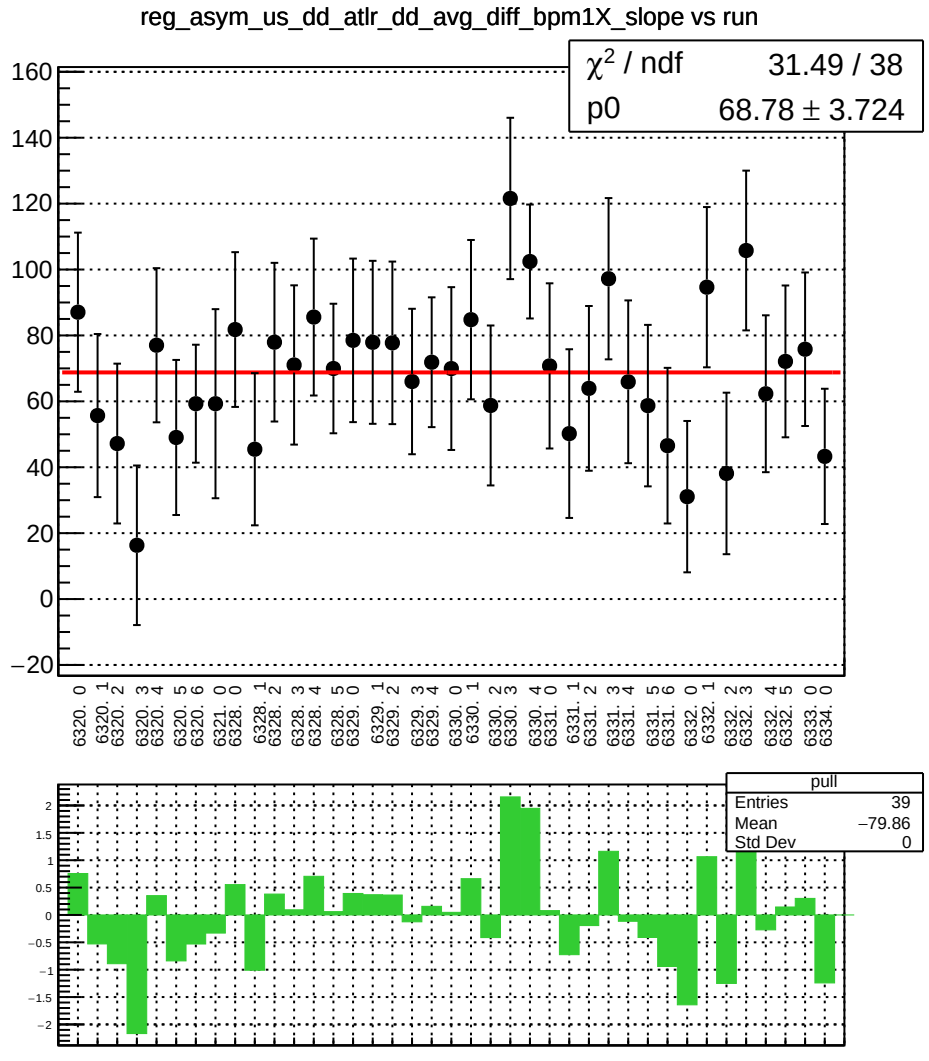

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.62 / 38
p0 −91.8 ± 4.375
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 57.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.0814
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

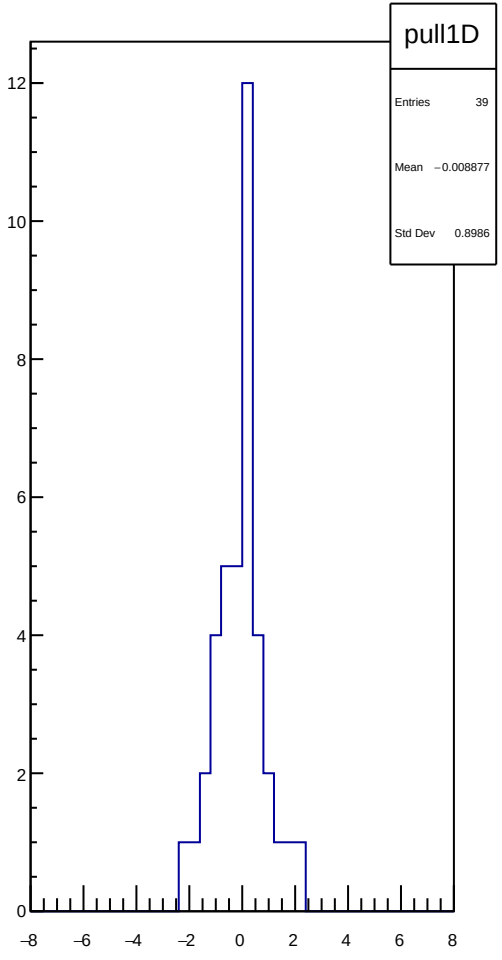

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.05 / 38
p0 −14.4 ± 3.194
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 67.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.09076
Std Dev 1.206
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

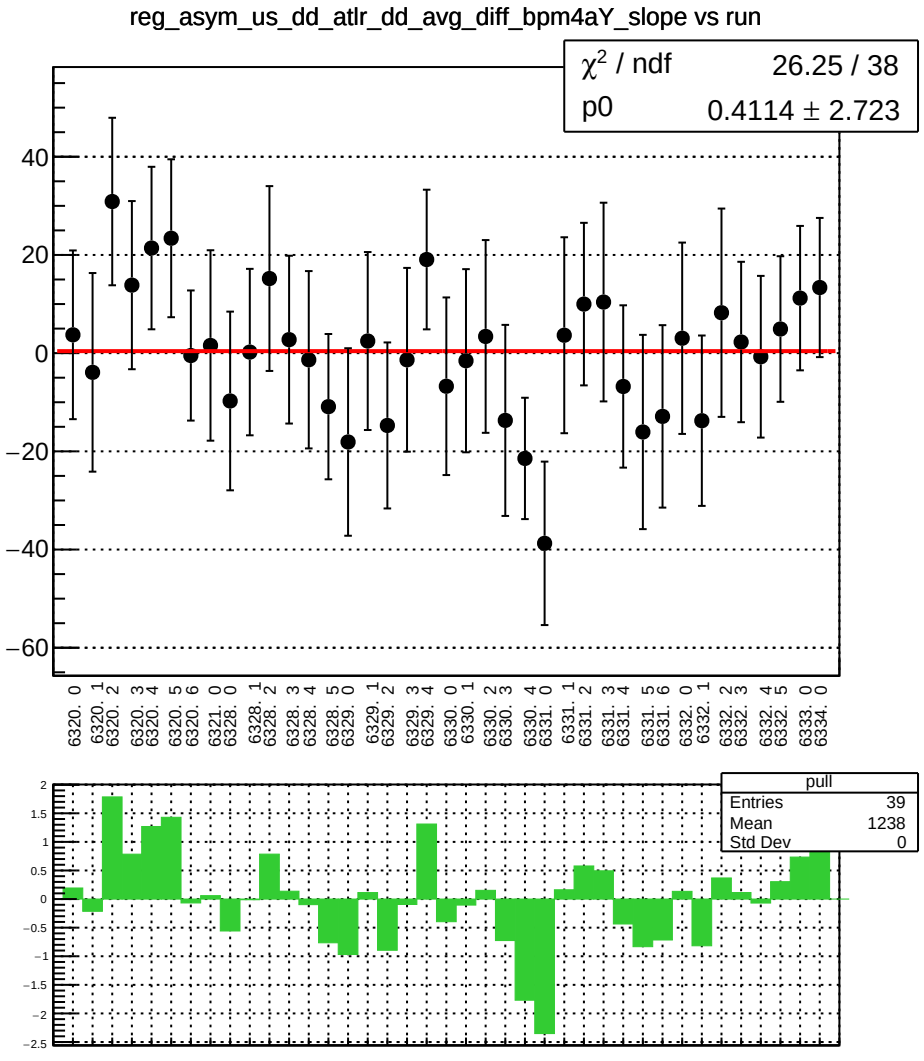

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.73 / 38
p0 131.1 ± 4.576
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 51.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.08269
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

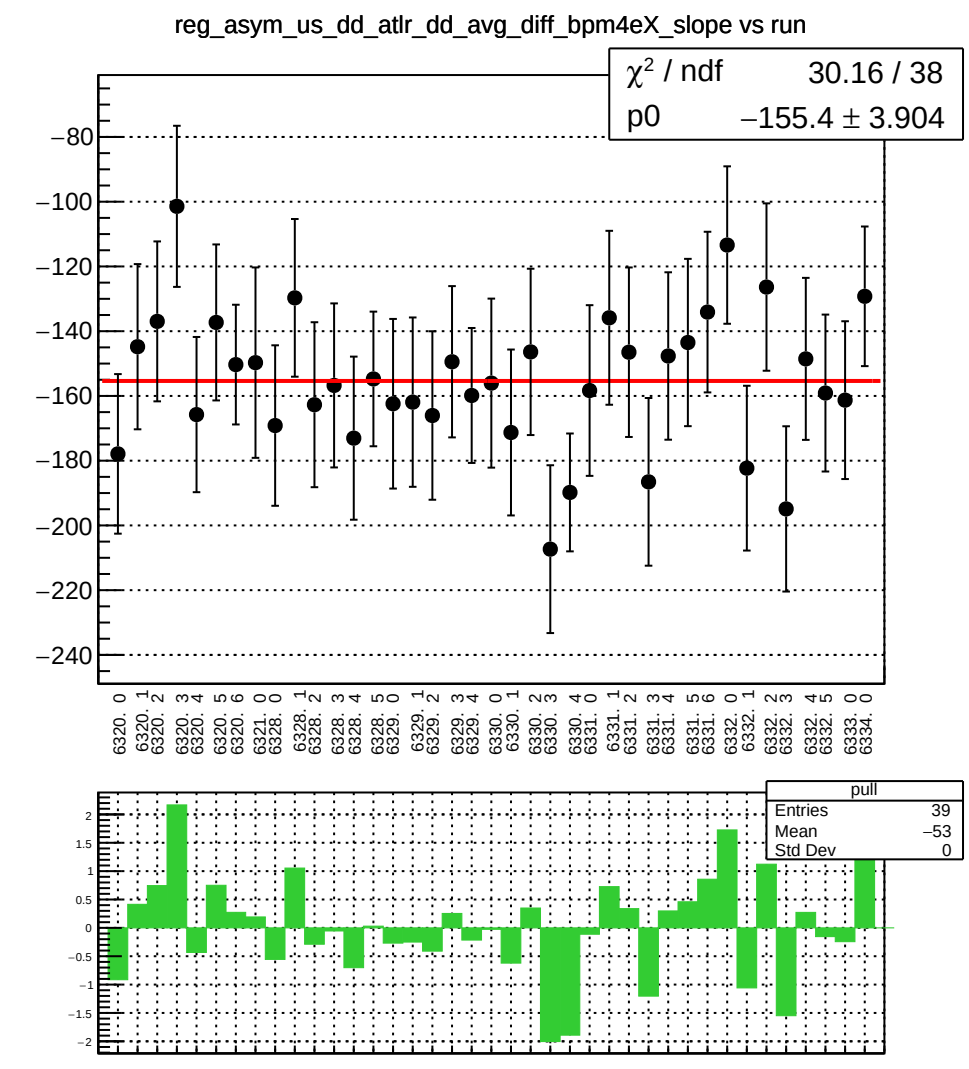

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.99 / 38
p0 48.99 ± 3.565
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 188.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03945
Std Dev 1.593
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

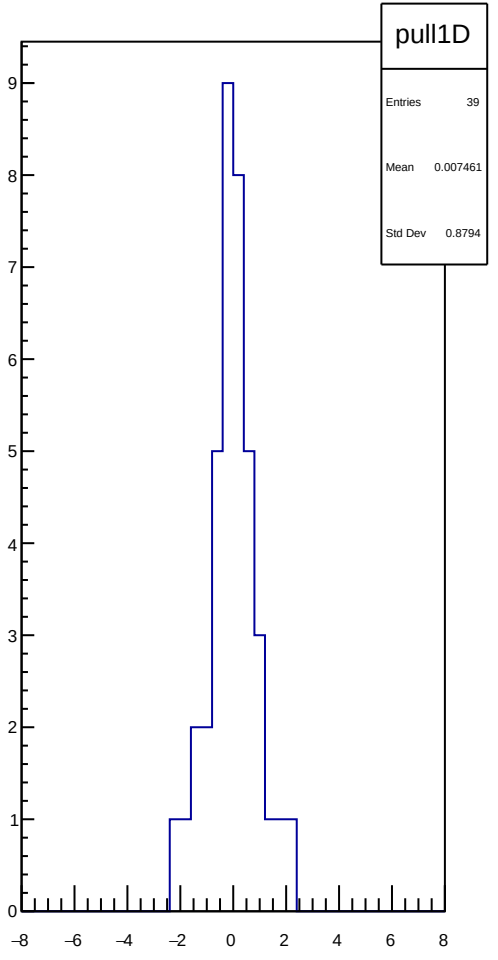

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 309.6 / 38
p0 −58.04 ± 0.179
pull
Entries 39
Mean −23.18
Std Dev 0
pull1D
Entries 39
Mean 0.449
Std Dev 2.781

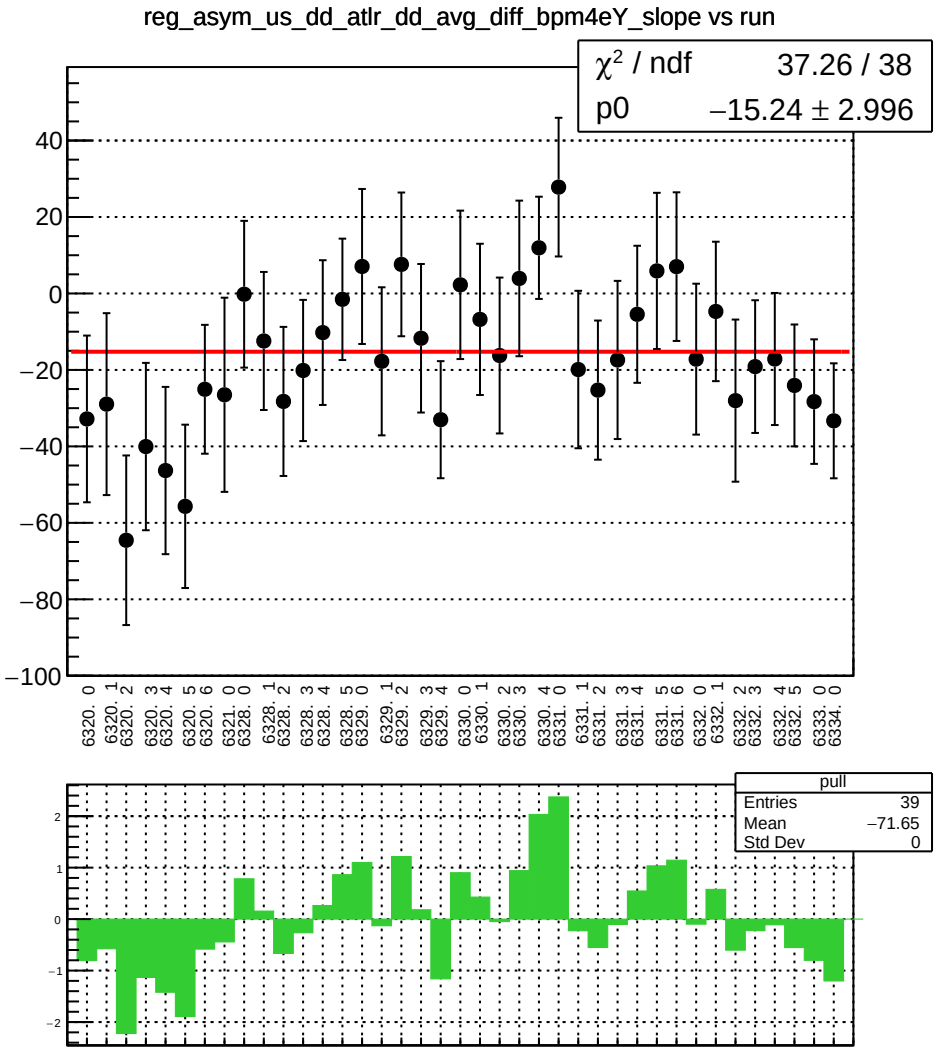

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 31.49 / 38
p0 68.78 ± 3.724
pull
Entries 39
Mean −79.86
Std Dev 0

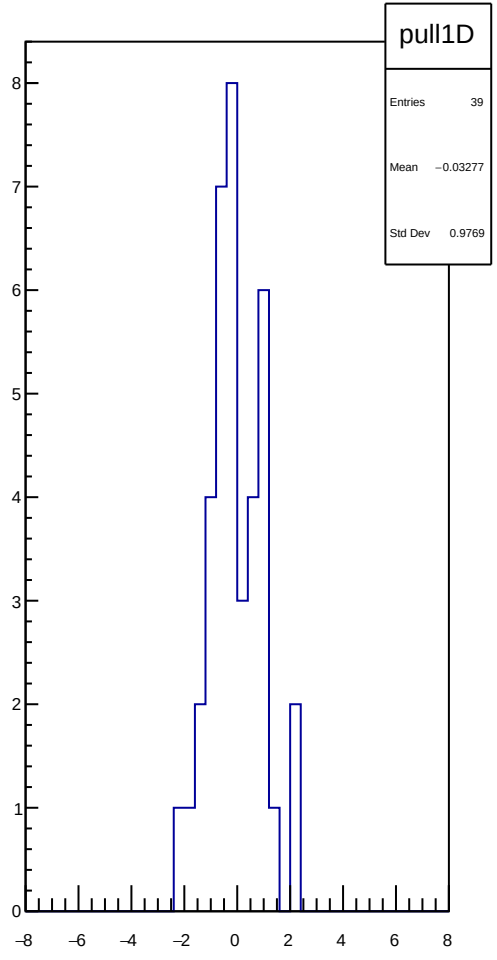

pull1D
Entries 39
Mean −0.008877
Std Dev 0.8986

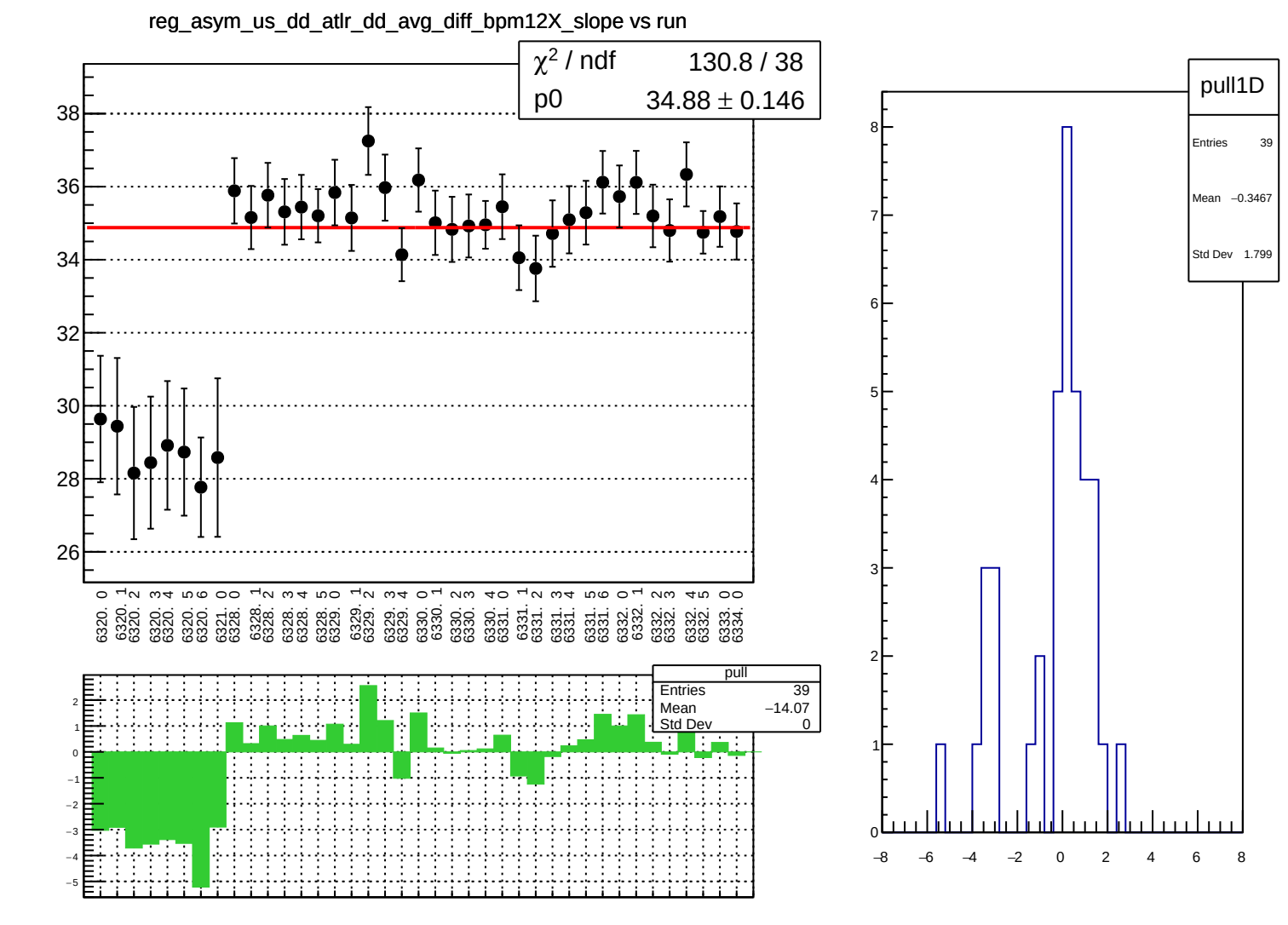

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.25 / 38
p0 0.4114 ± 2.723
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 1238
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.00151
Std Dev 0.8205
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

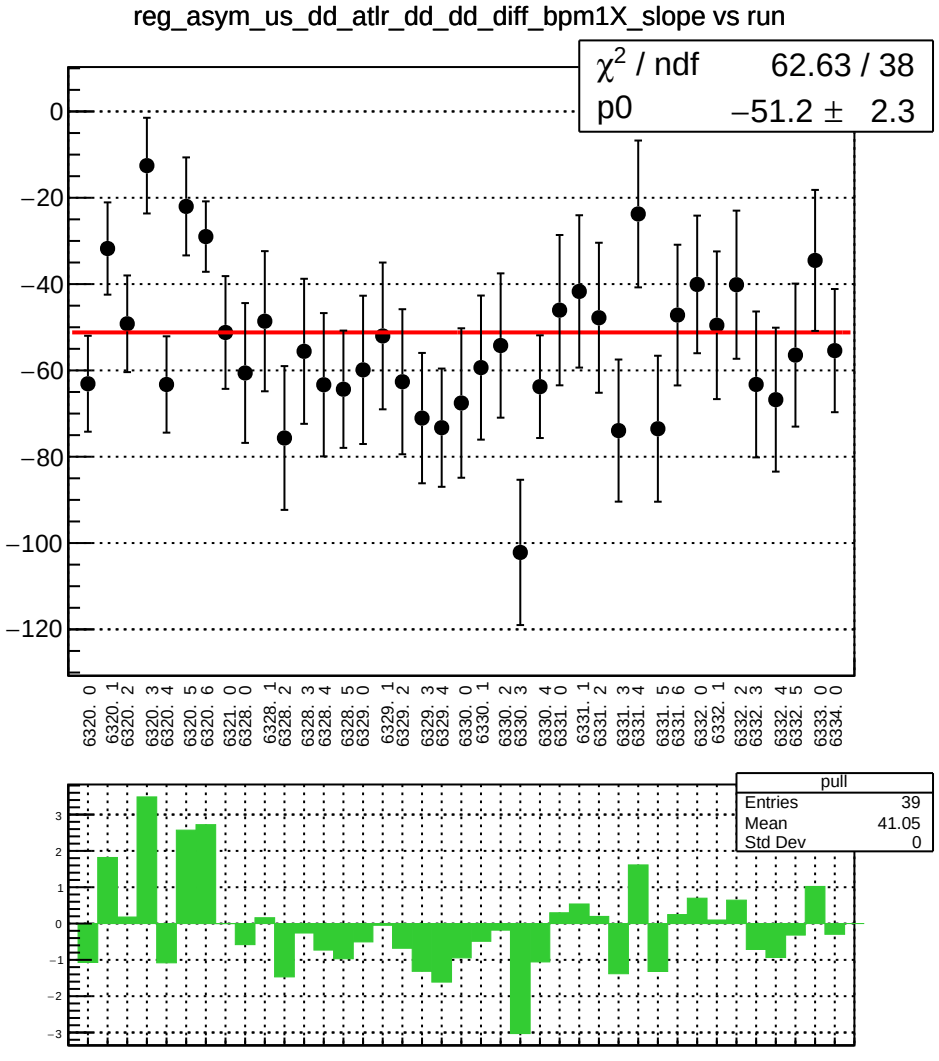

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.16 / 38
p0 −155.4 ± 3.904
−80
−100
−120
−140
−160
−180
−200
−220
−240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

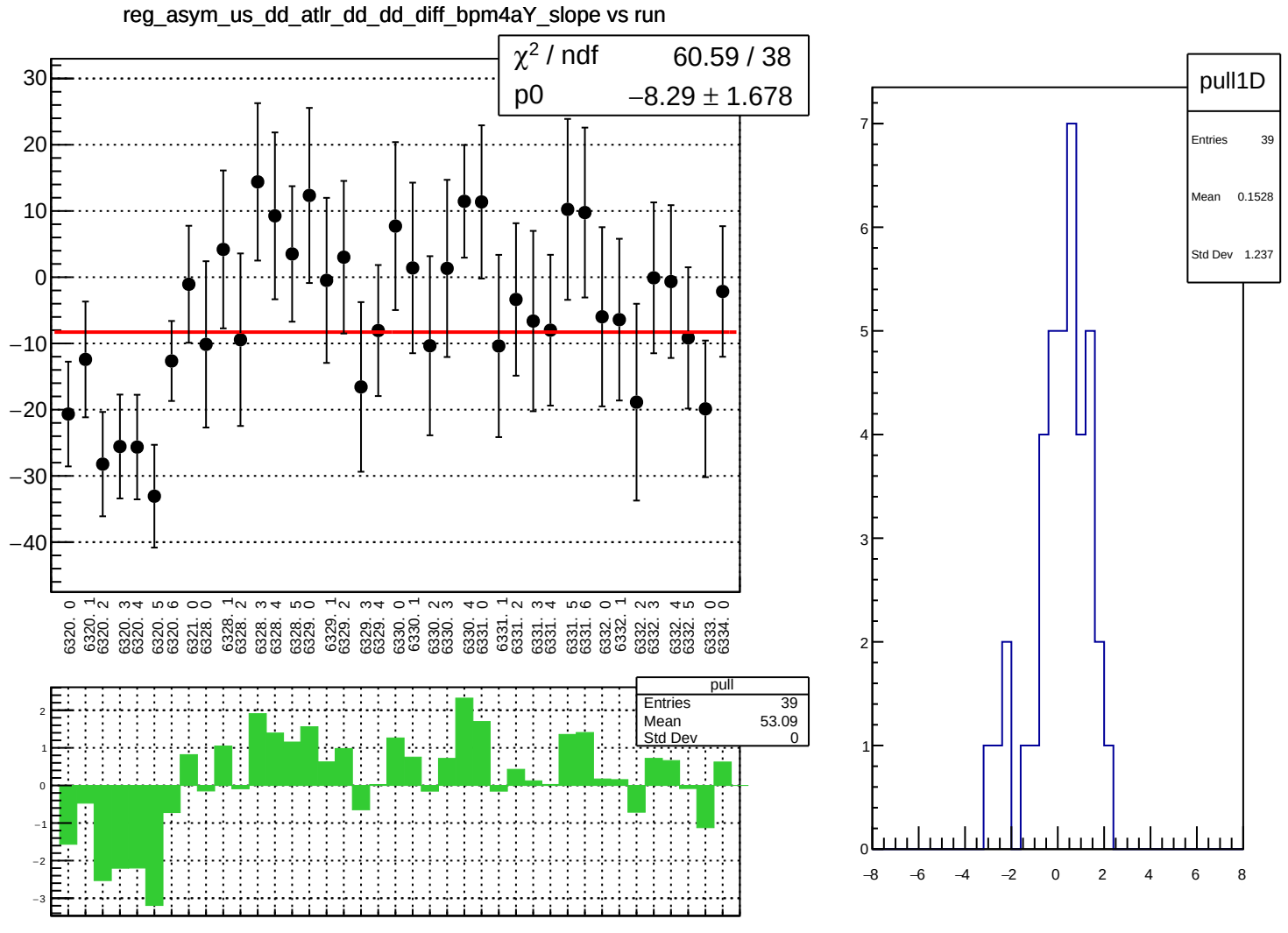

pull1D
Entries 39
Mean 0.007461
Std Dev 0.8794
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

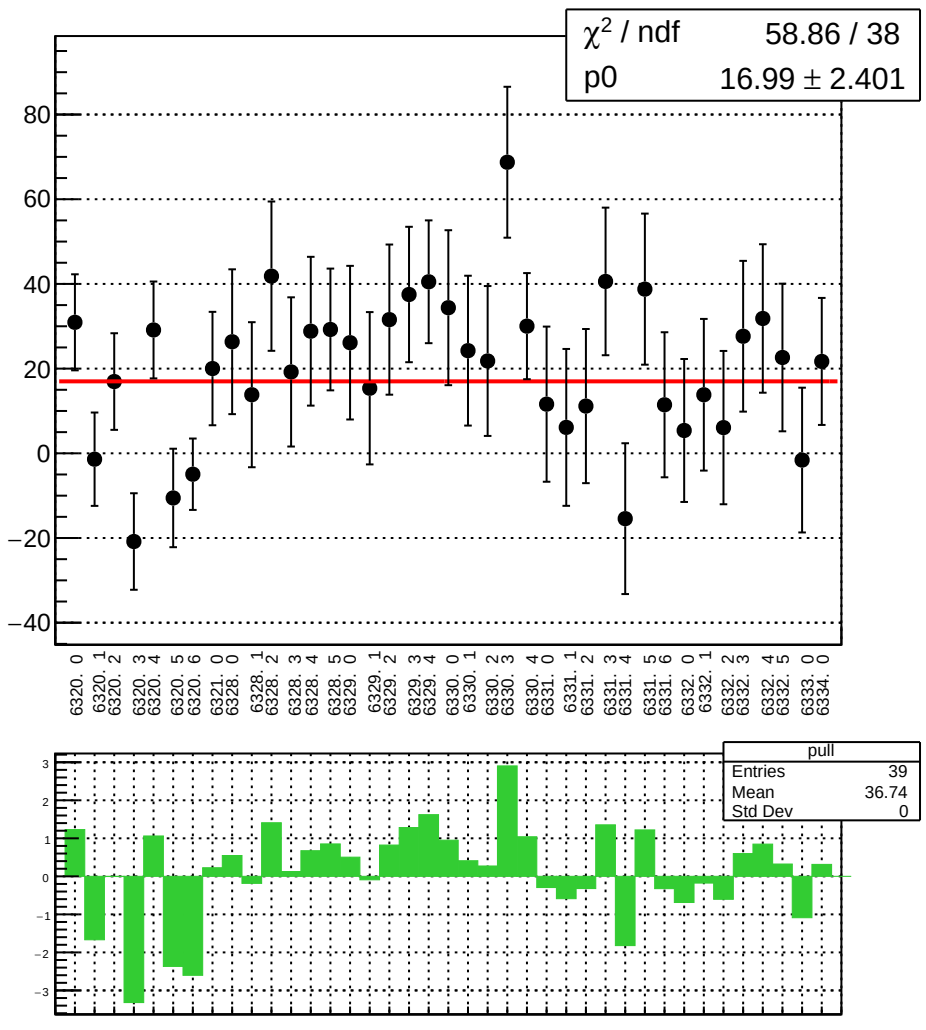

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.26 / 38
p0 −15.24 ± 2.996
pull
Entries 39
Mean −71.65
Std Dev 0

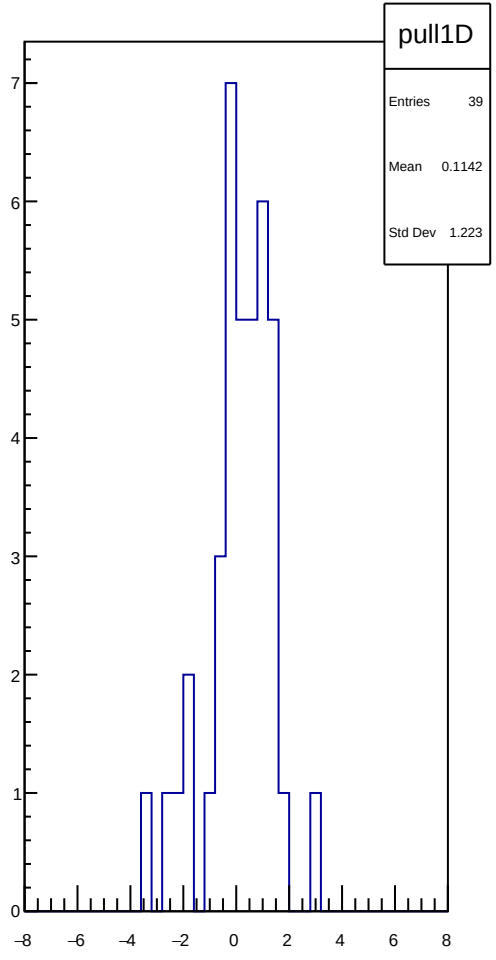

pull1D
Entries 39
Mean −0.03277
Std Dev 0.9769

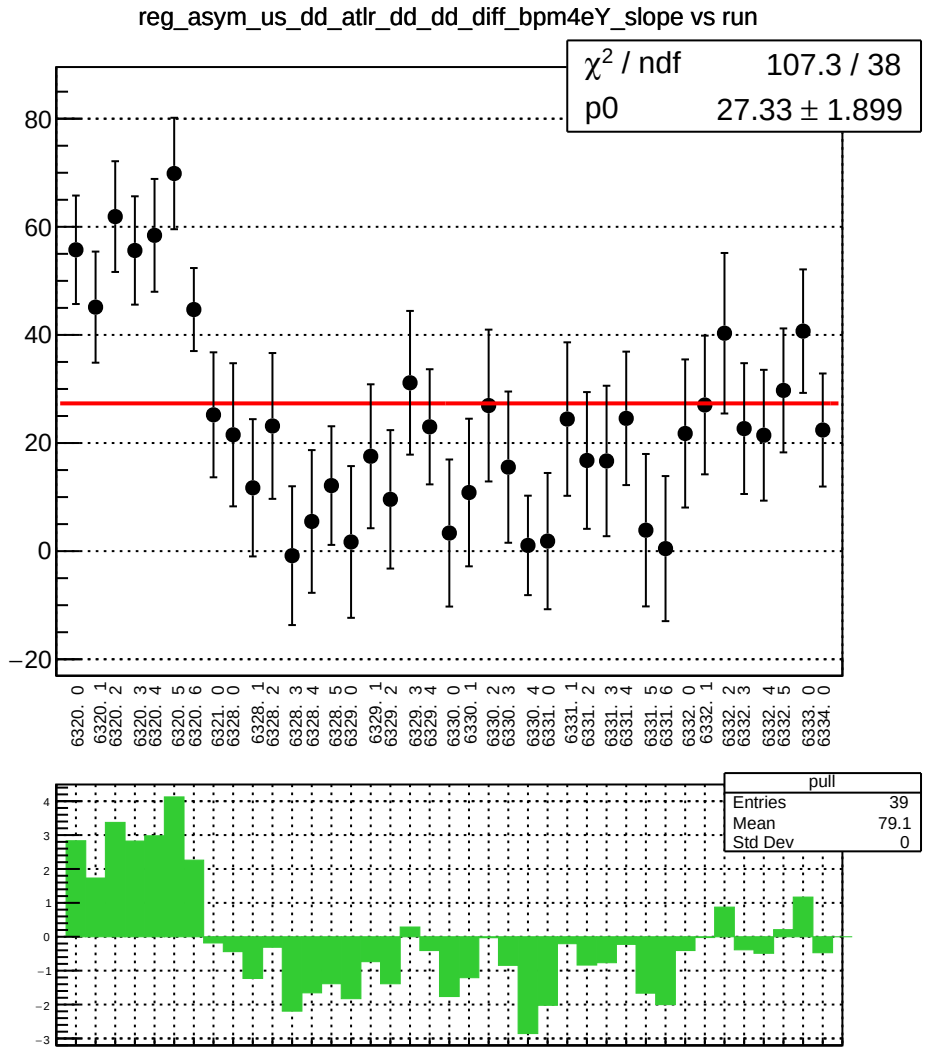

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 130.8 / 38
p0 34.88 ± 0.146
pull
Entries 39
Mean −14.07
Std Dev 0
pull1D
Entries 39
Mean −0.3467
Std Dev 1.799

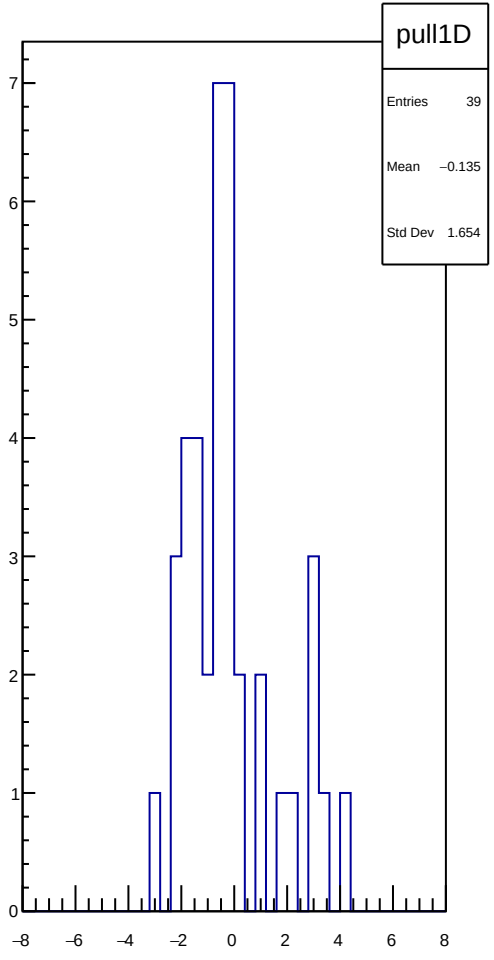

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 62.63 / 38
p0 −51.2 ± 2.3
pull
Entries 39
Mean 41.05
Std Dev 0
pull1D
Entries 39
Mean −0.1203
Std Dev 1.262

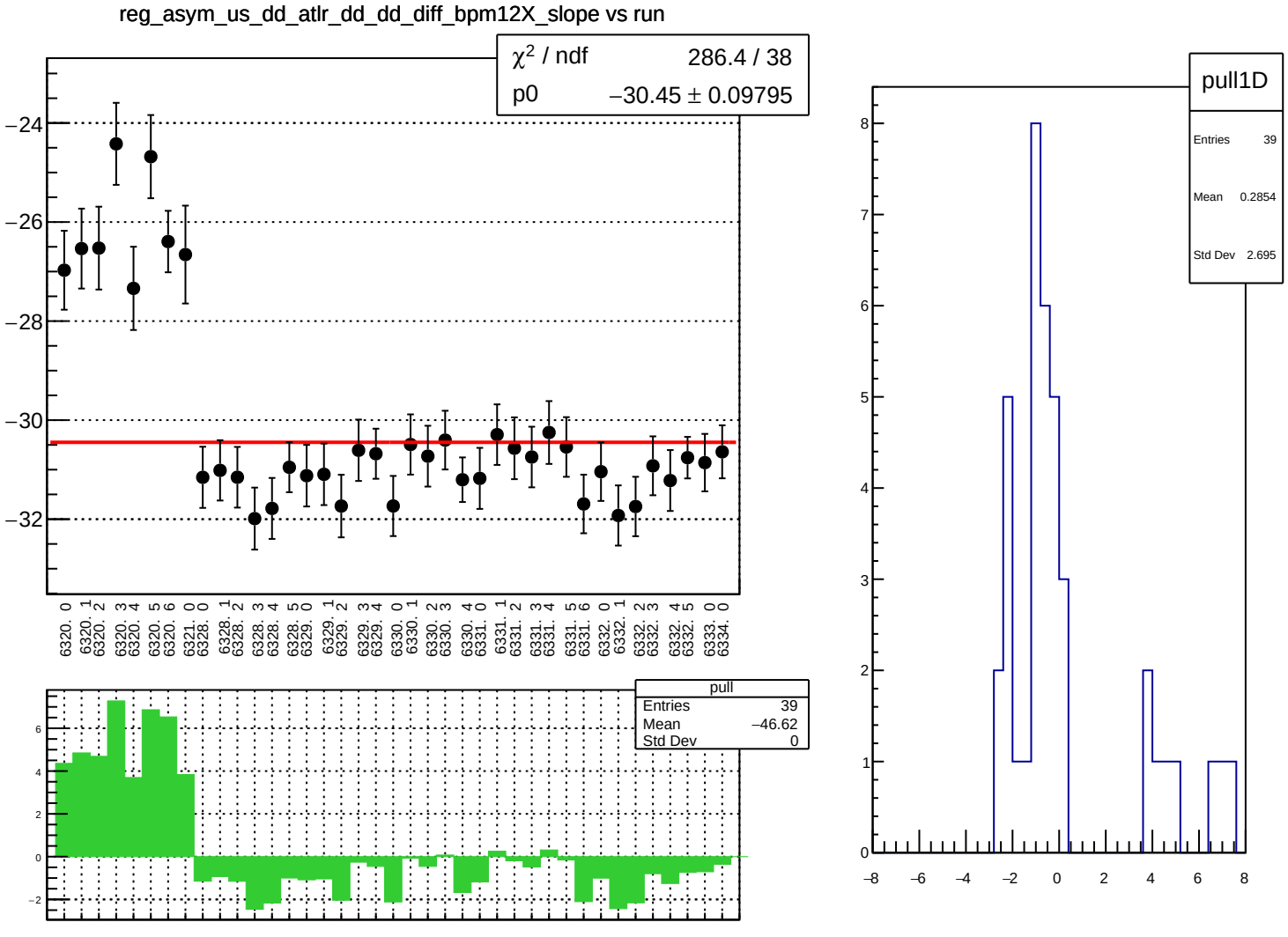

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.59 / 38
p0 −8.29 ± 1.678
pull
Entries 39
Mean 53.09
Std Dev 0
pull1D
Entries 39
Mean 0.1528
Std Dev 1.237

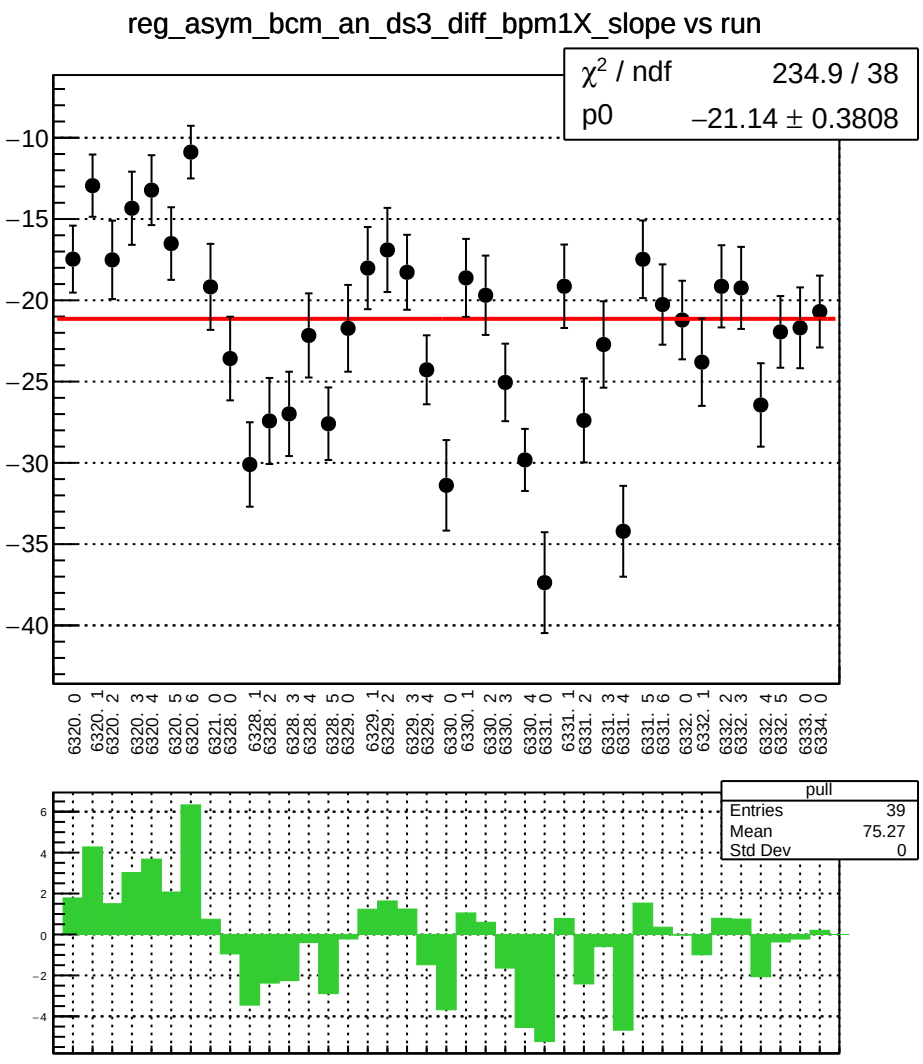

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.86 / 38
p0 16.99 ± 2.401
pull
Entries 39
Mean 36.74
Std Dev 0

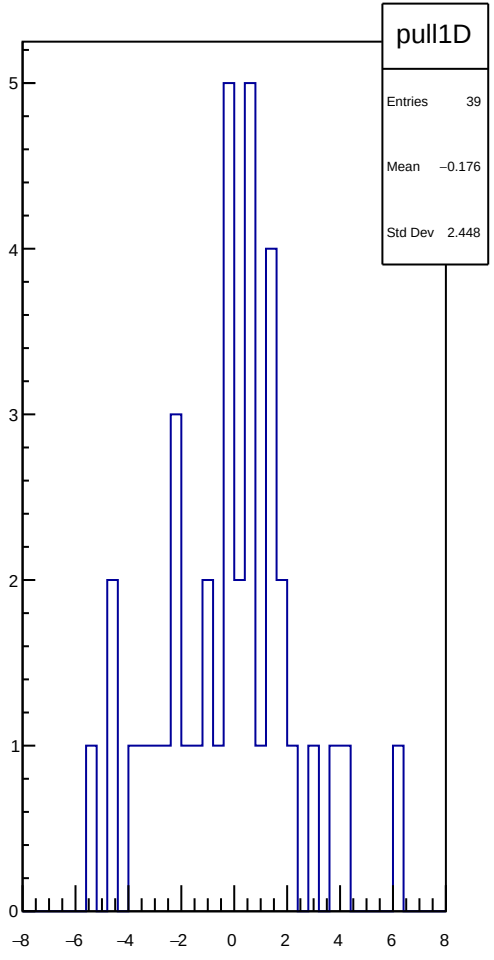

pull1D
Entries 39
Mean 0.1142
Std Dev 1.223

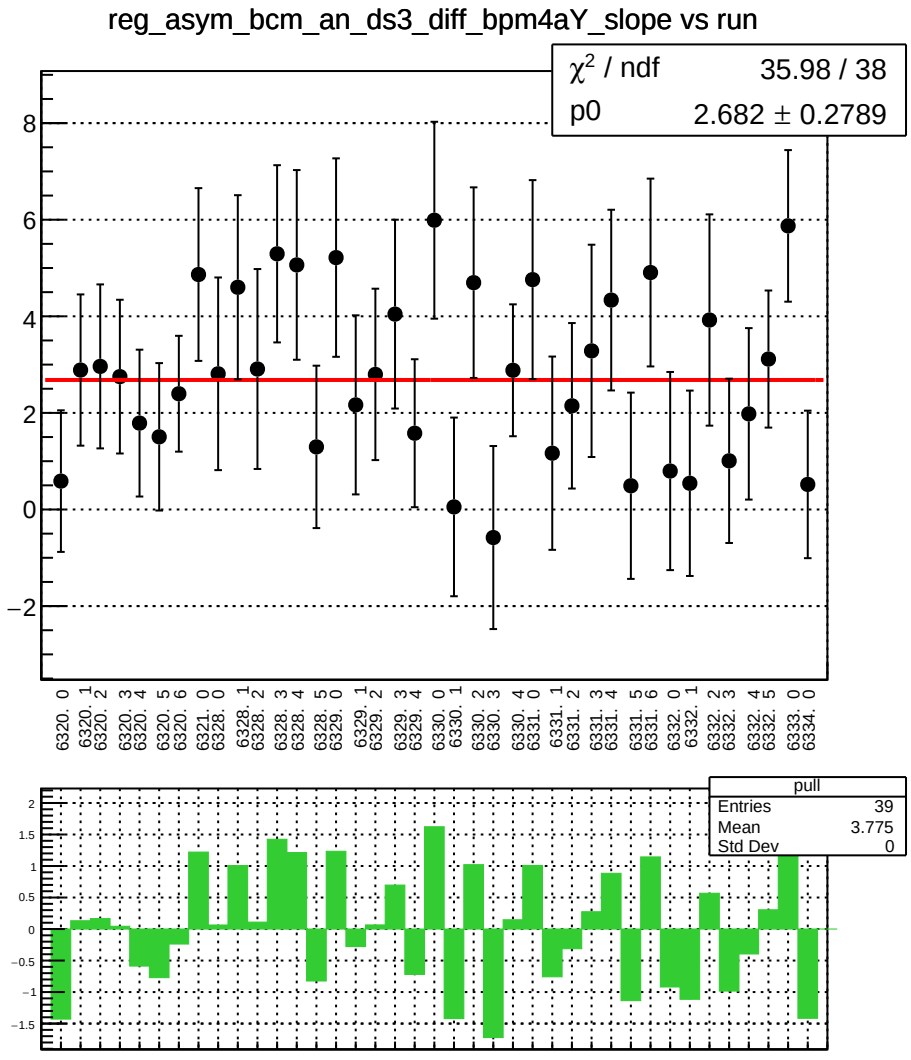

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.3 / 38
p0 27.33 ± 1.899
pull
Entries 39
Mean 79.1
Std Dev 0

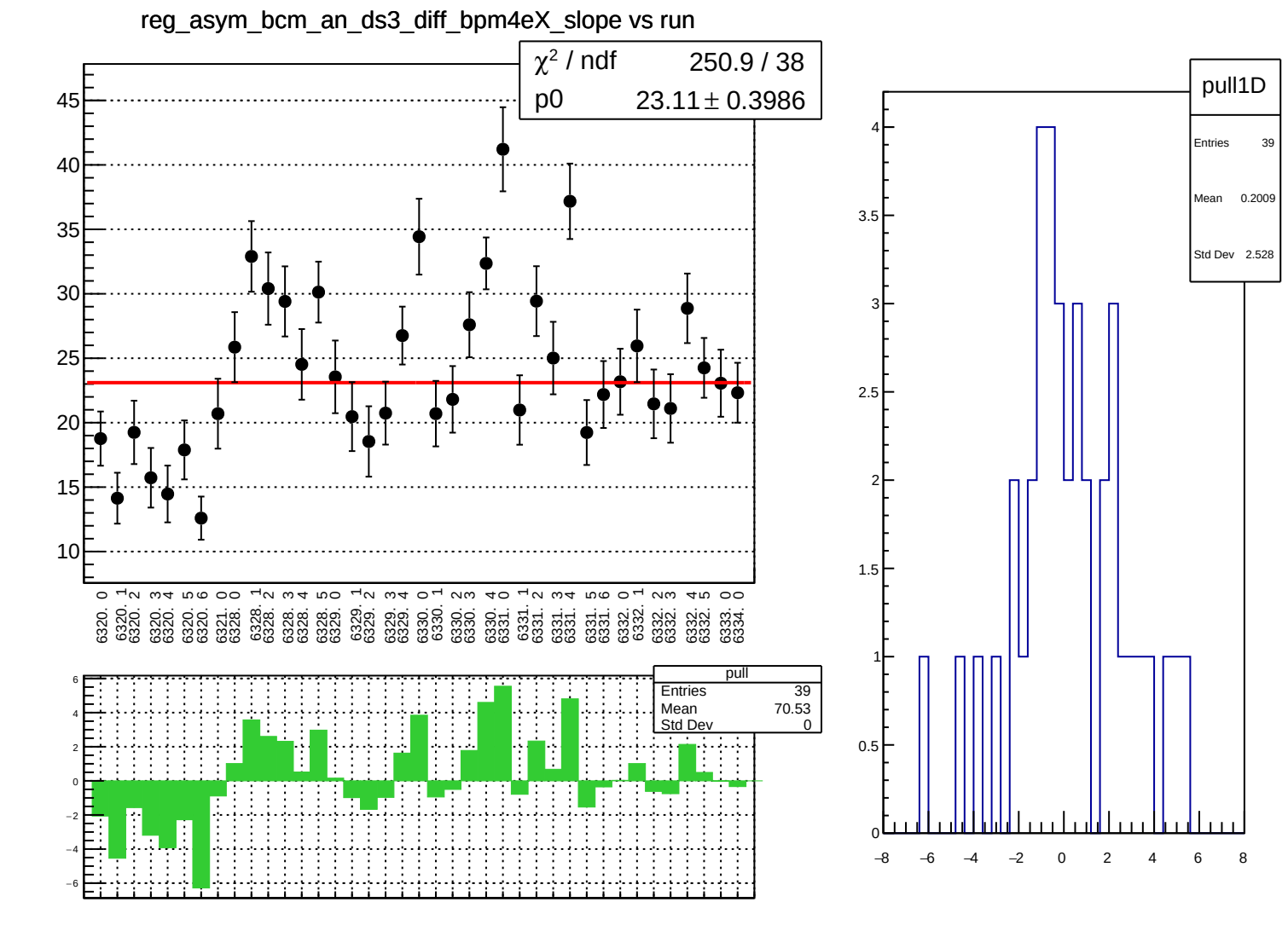

pull1D
Entries 39
Mean −0.135
Std Dev 1.654

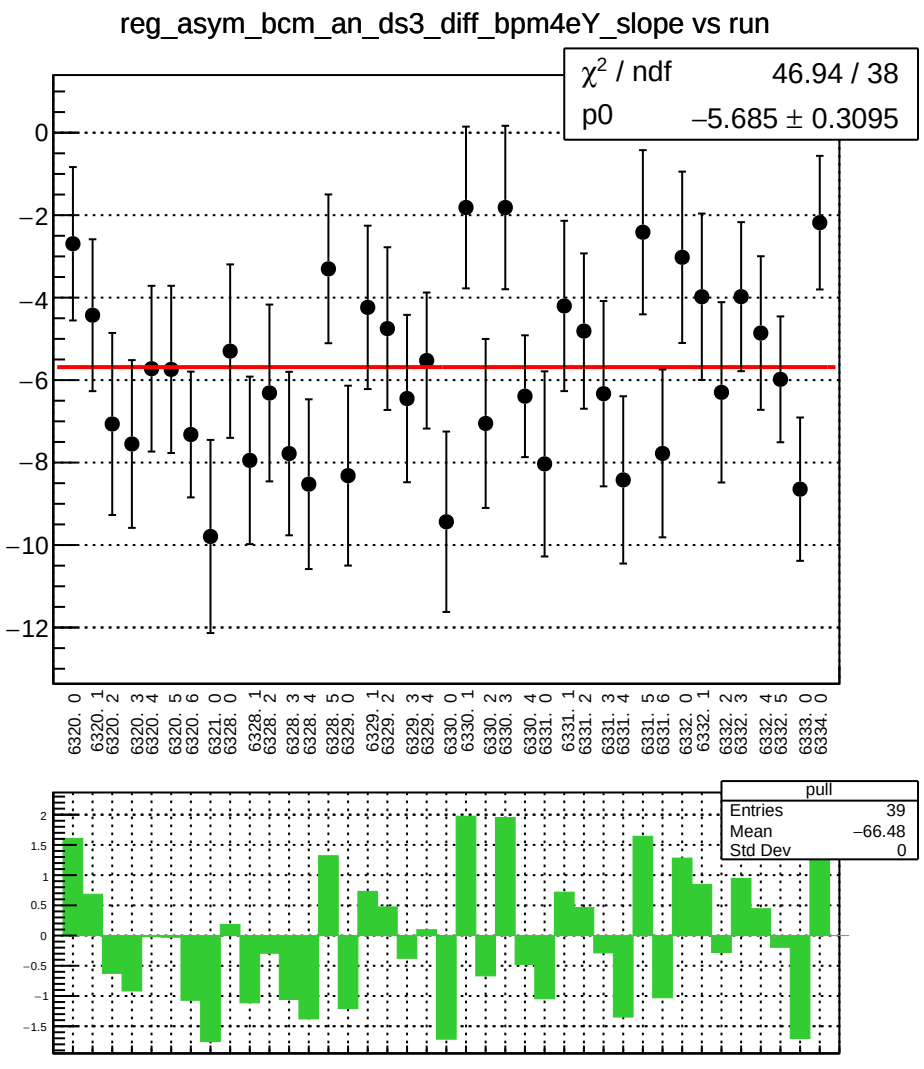

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 286.4 / 38
p0 −30.45 ± 0.09795
−24
−26
−28
−30
−32
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.62
Std Dev 0
6
4
2
0
−2
pull1D
Entries 39
Mean 0.2854
Std Dev 2.695
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

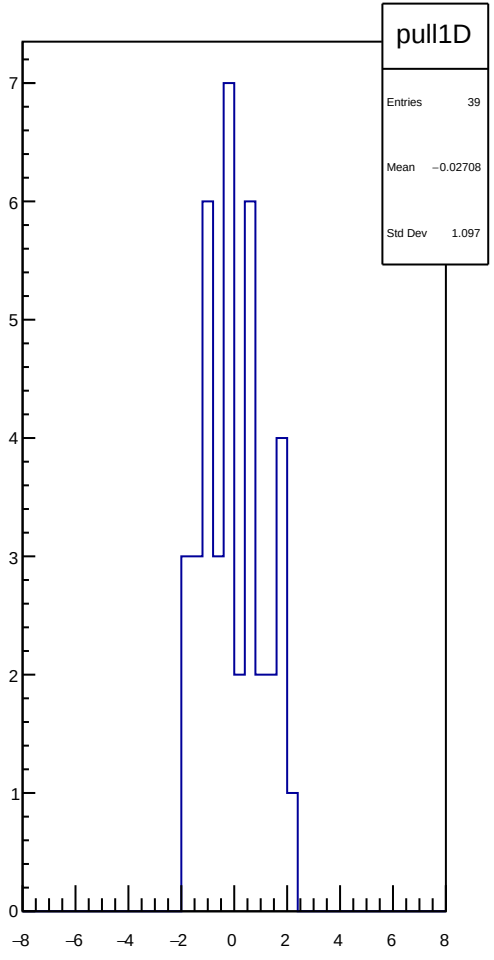

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 234.9 / 38
p0 −21.14 ± 0.3808
pull
Entries 39
Mean 75.27
Std Dev 0

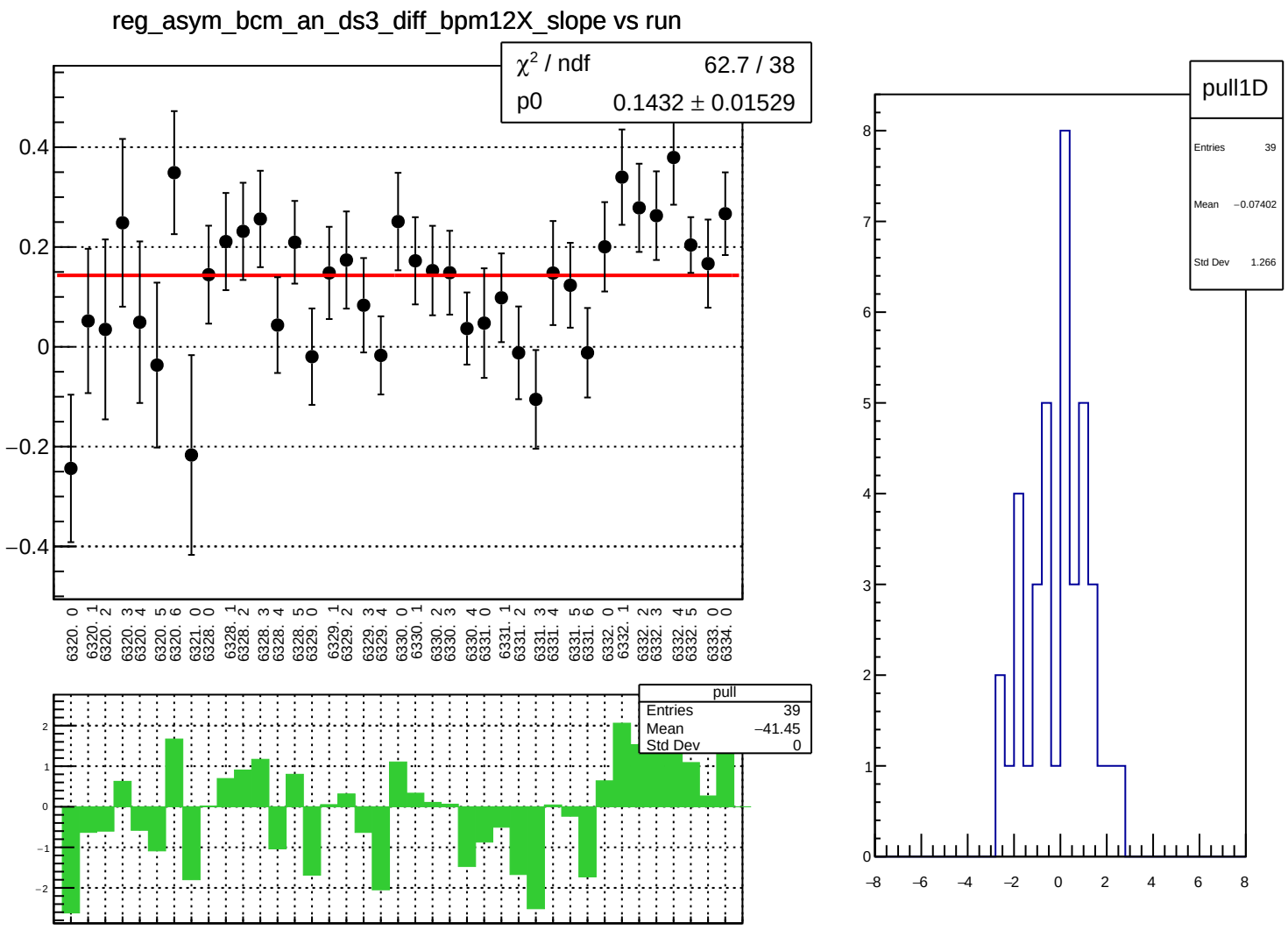

pull1D
Entries 39
Mean −0.176
Std Dev 2.448

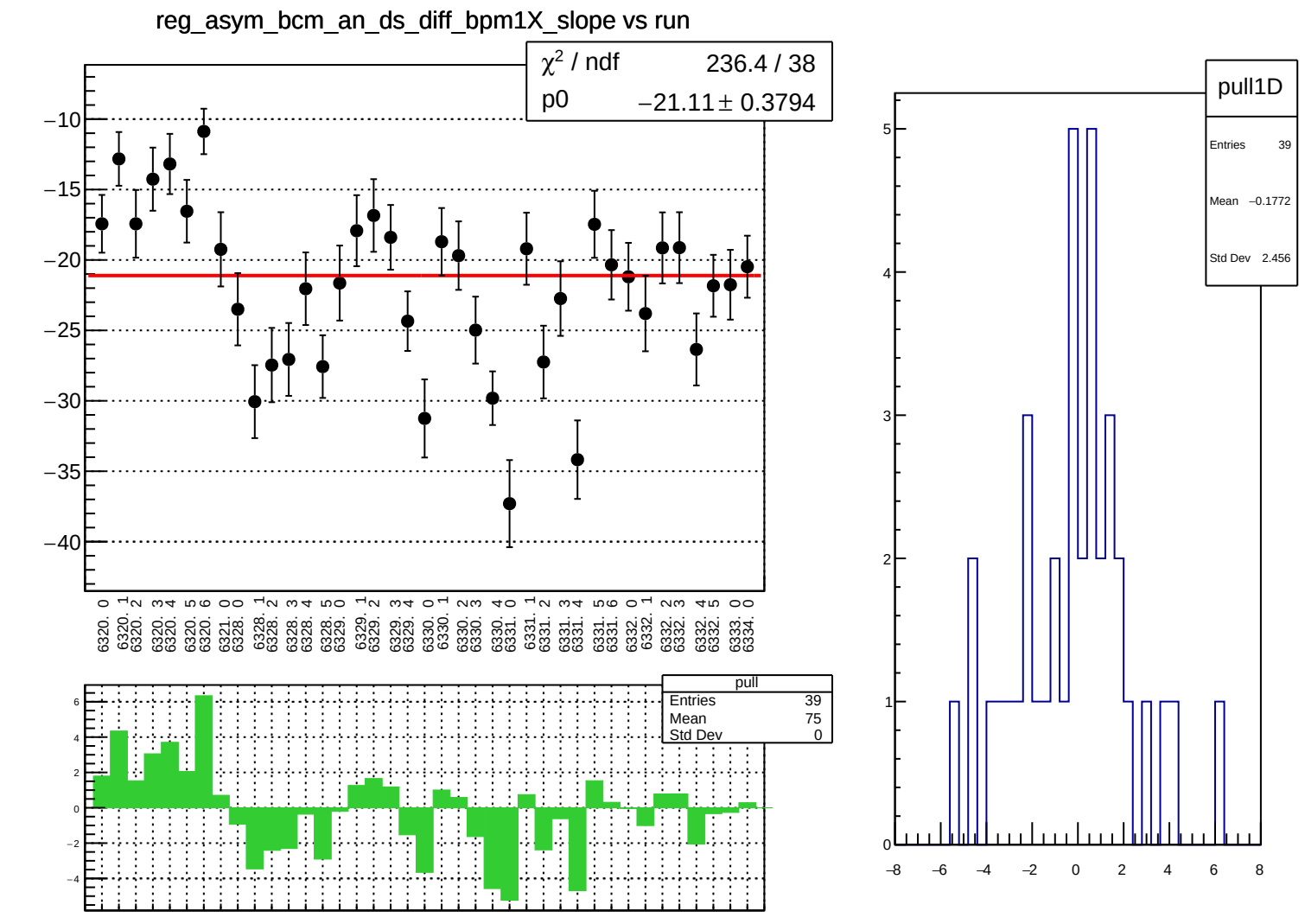

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 35.98 / 38
p0 2.682 ± 0.2789
pull
Entries 39
Mean 3.775
Std Dev 0
pull1D
Entries 39
Mean 0.03482
Std Dev 0.9599

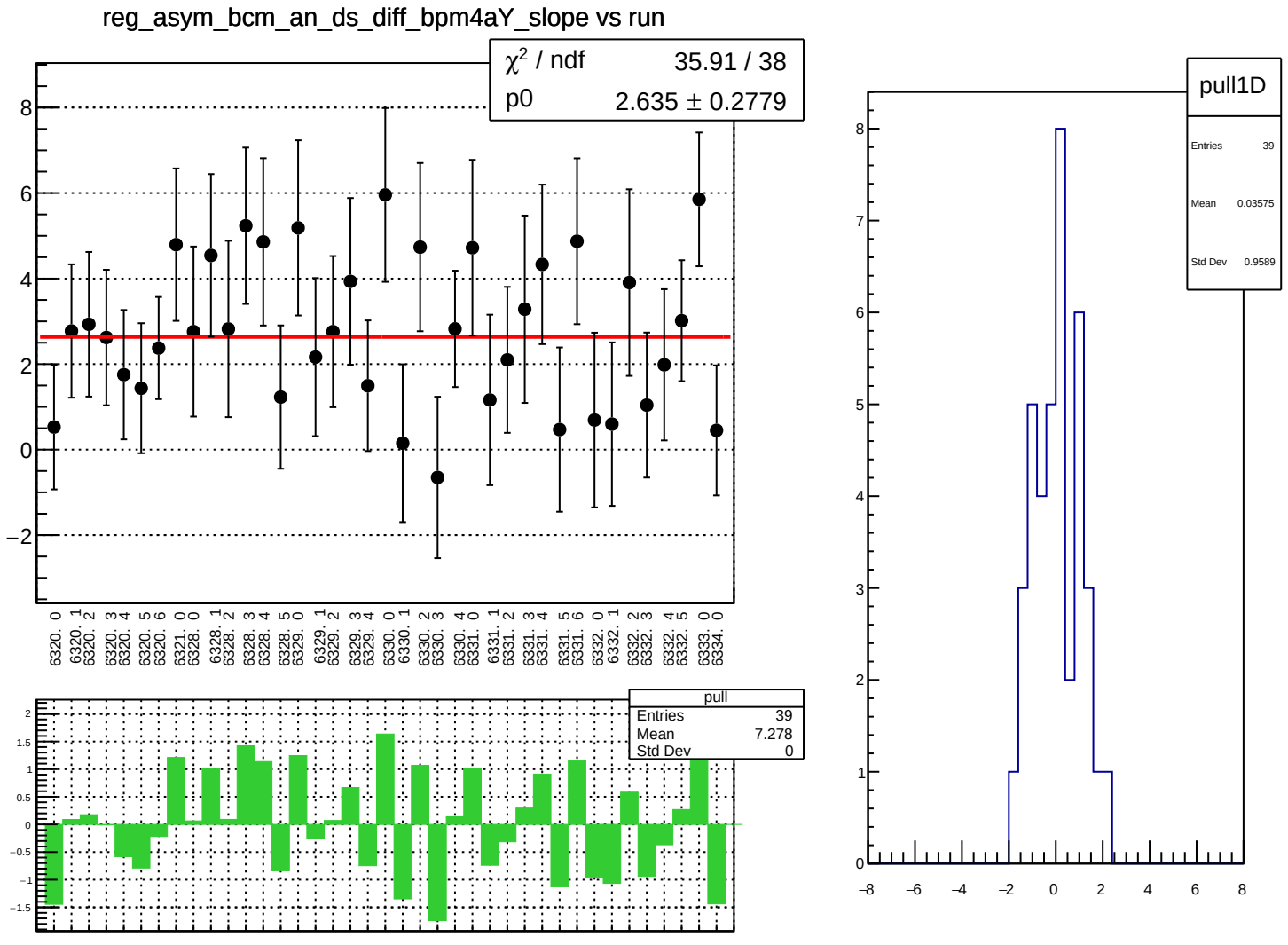

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 250.9 / 38
p0 23.11 ± 0.3986
pull
Entries 39
Mean 70.53
Std Dev 0
pull1D
Entries 39
Mean 0.2009
Std Dev 2.528

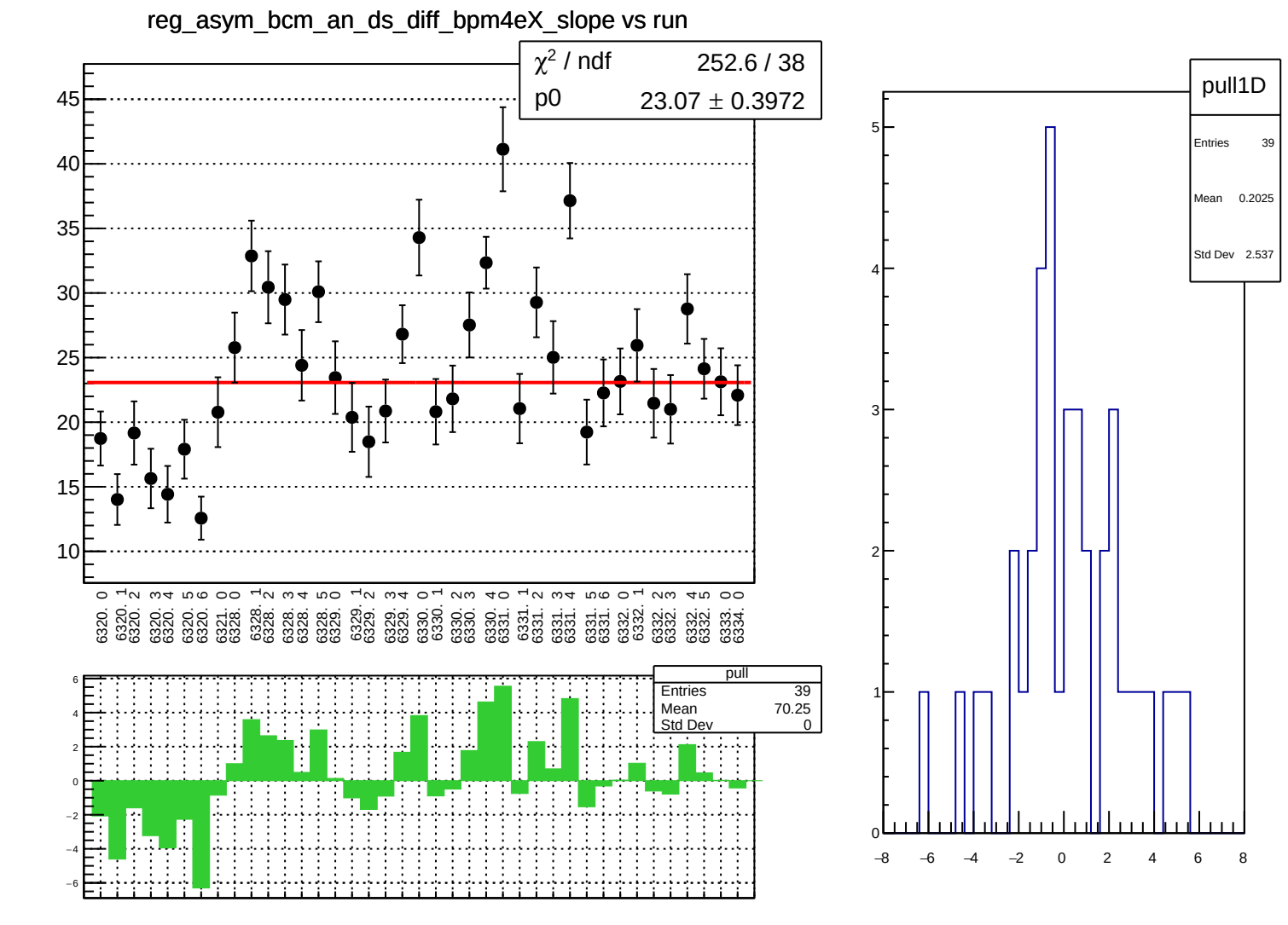

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 46.94 / 38
p0 −5.685 ± 0.3095
pull
Entries 39
Mean −66.48
Std Dev 0

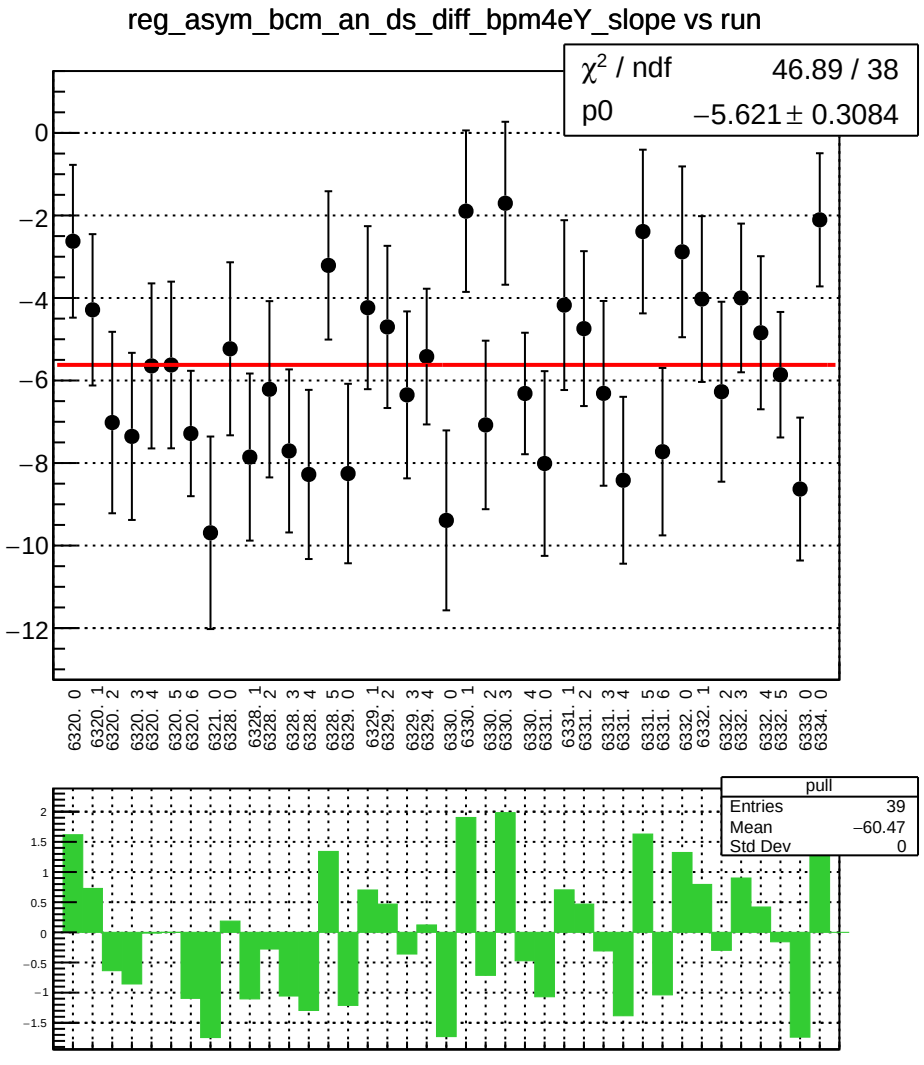

pull1D
Entries 39
Mean −0.02708
Std Dev 1.097

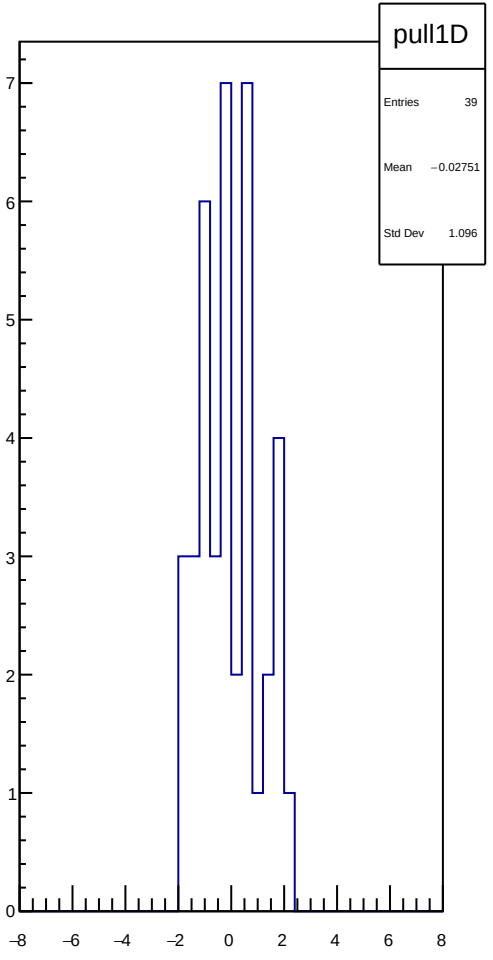

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 62.7 / 38
p0 0.1432 ± 0.01529
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −41.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07402
Std Dev 1.266
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

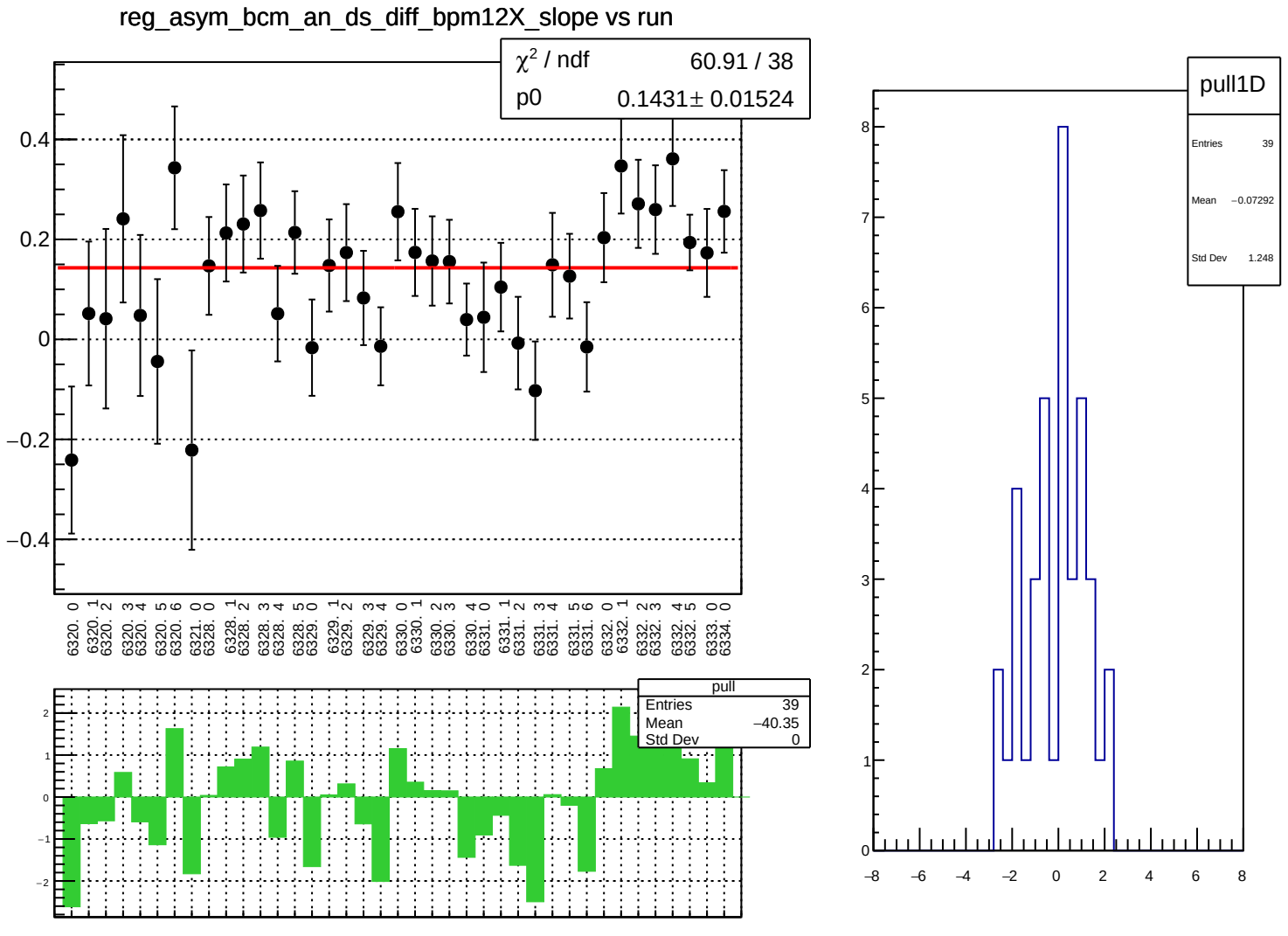

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 236.4 / 38
p0 −21.11 ± 0.3794
−10
−15
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 75
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 39
Mean −0.1772
Std Dev 2.456
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

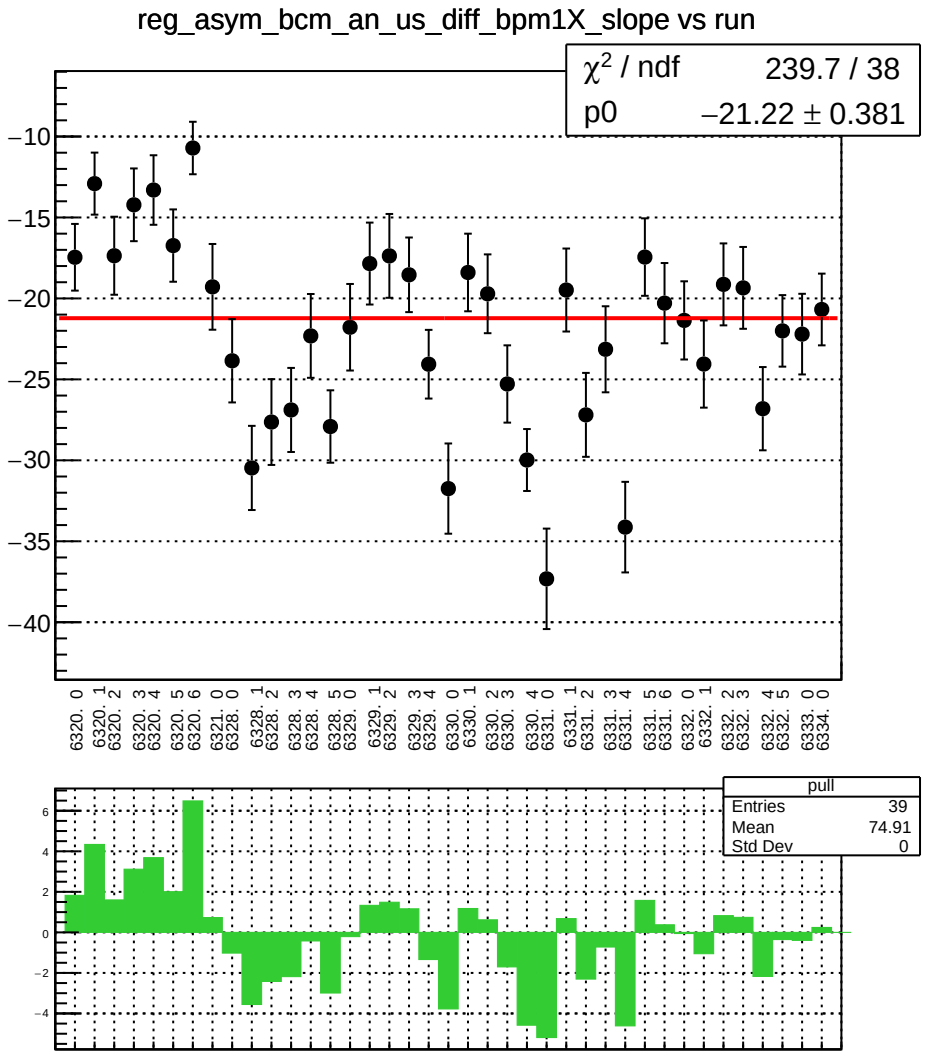

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 35.91 / 38
p0 2.635 ± 0.2779
pull
Entries 39
Mean 7.278
Std Dev 0
pull1D
Entries 39
Mean 0.03575
Std Dev 0.9589

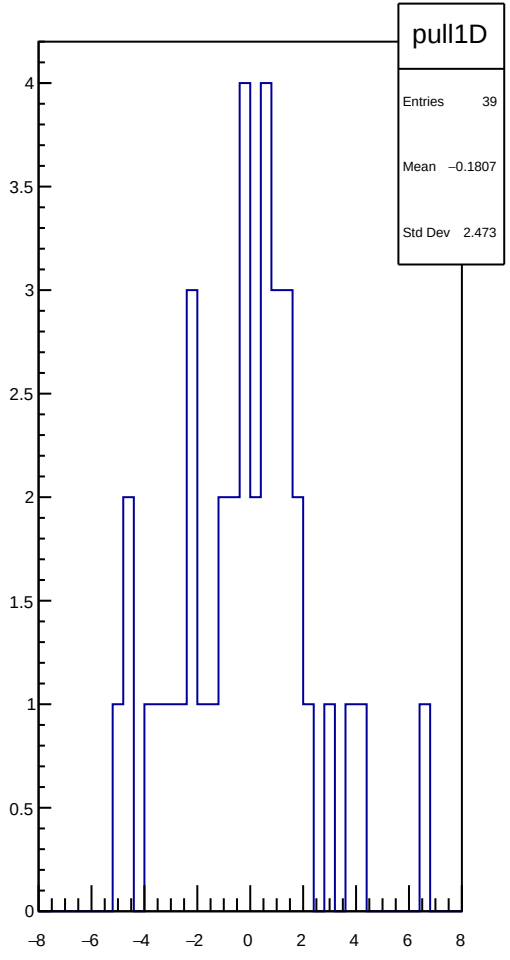

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 252.6 / 38
p0 23.07 ± 0.3972
pull
Entries 39
Mean 70.25
Std Dev 0
pull1D
Entries 39
Mean 0.2025
Std Dev 2.537

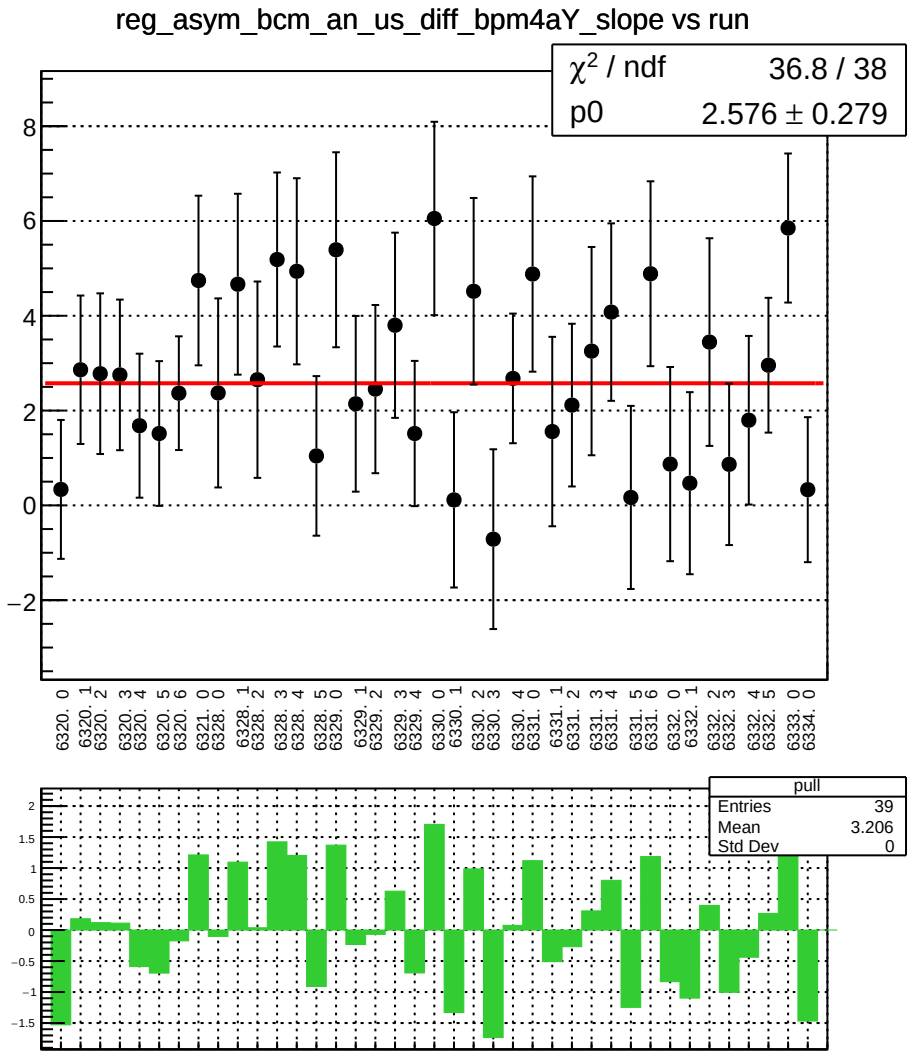

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 46.89 / 38
p0 −5.621 ± 0.3084
0
−2
−4
−6
−8
−10
−12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −60.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

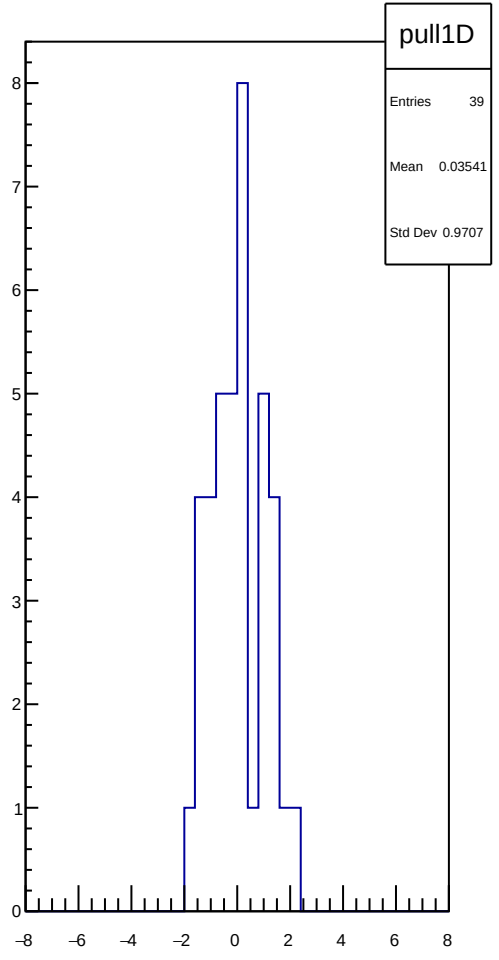

pull1D
Entries 39
Mean −0.02751
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

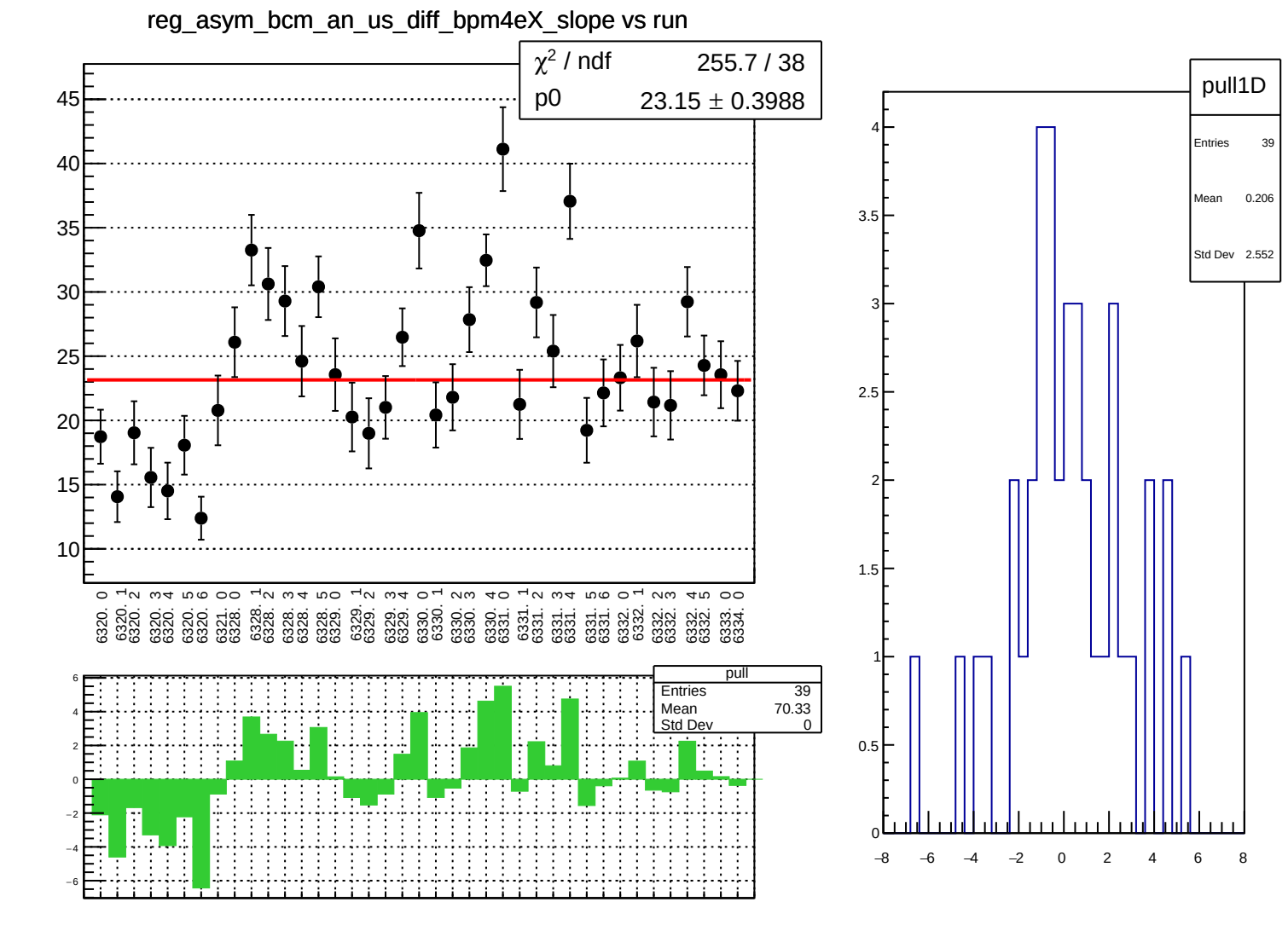

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 60.91 / 38
p0 0.1431± 0.01524
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −40.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07292
Std Dev 1.248
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

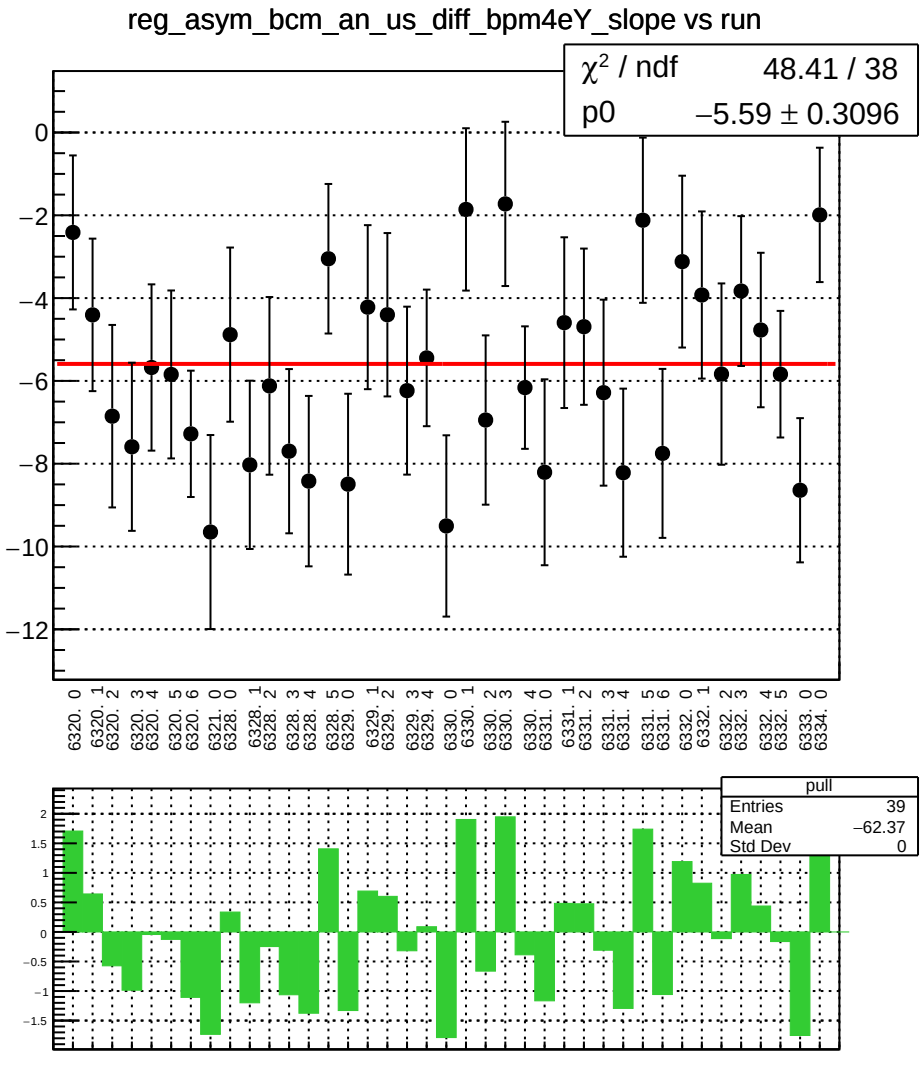

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 239.7 / 38
p0 −21.22 ± 0.381
pull
Entries 39
Mean 74.91
Std Dev 0

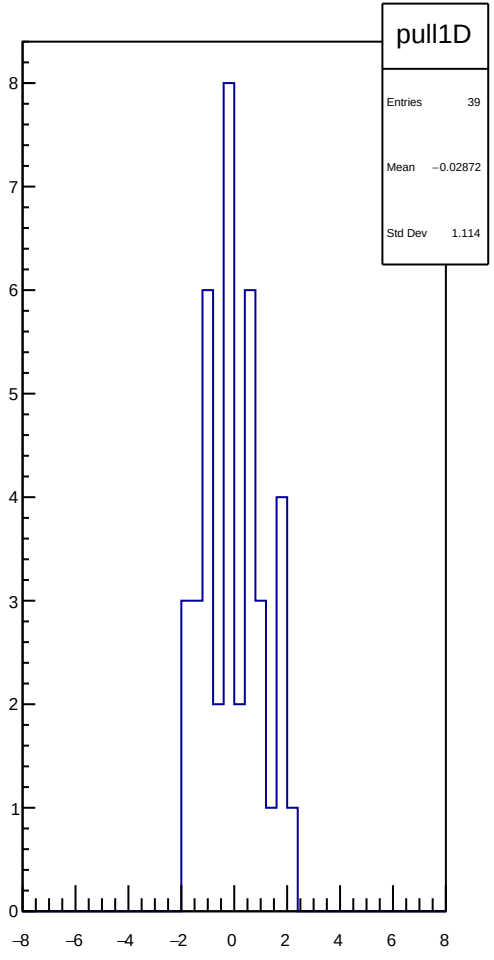

pull1D
Entries 39
Mean −0.1807
Std Dev 2.473

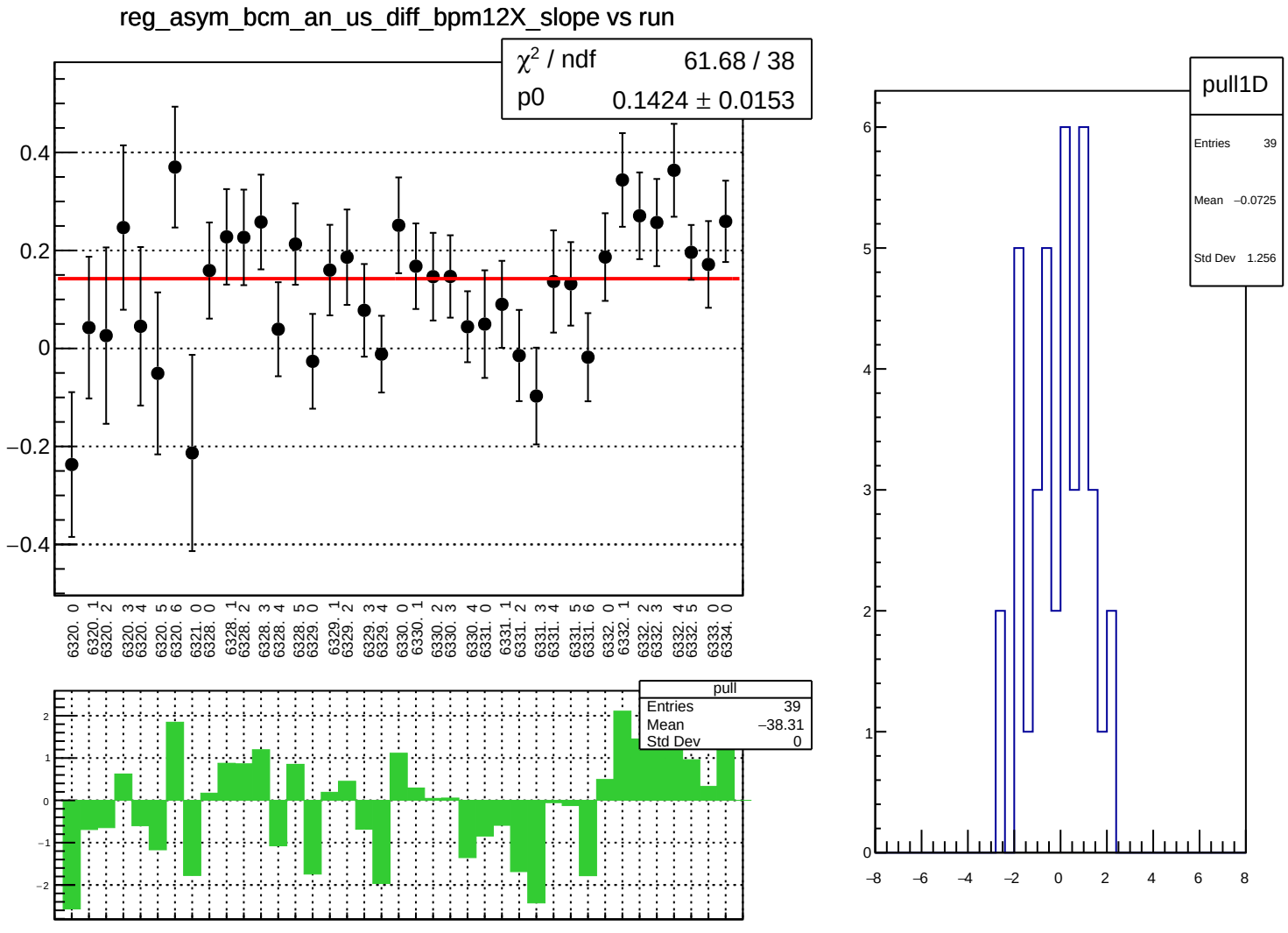

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 36.8 / 38
p0 2.576 ± 0.279
pull
Entries 39
Mean 3.206
Std Dev 0

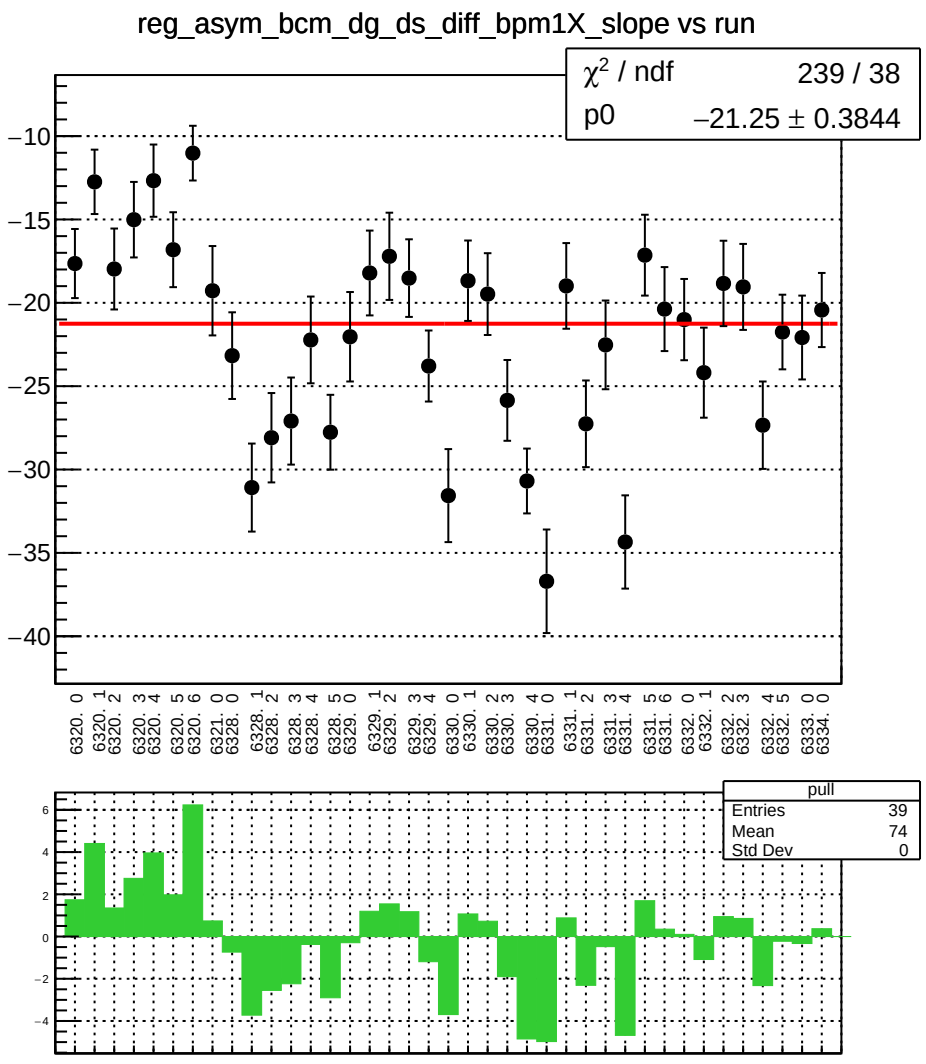

pull1D
Entries 39
Mean 0.03541
Std Dev 0.9707

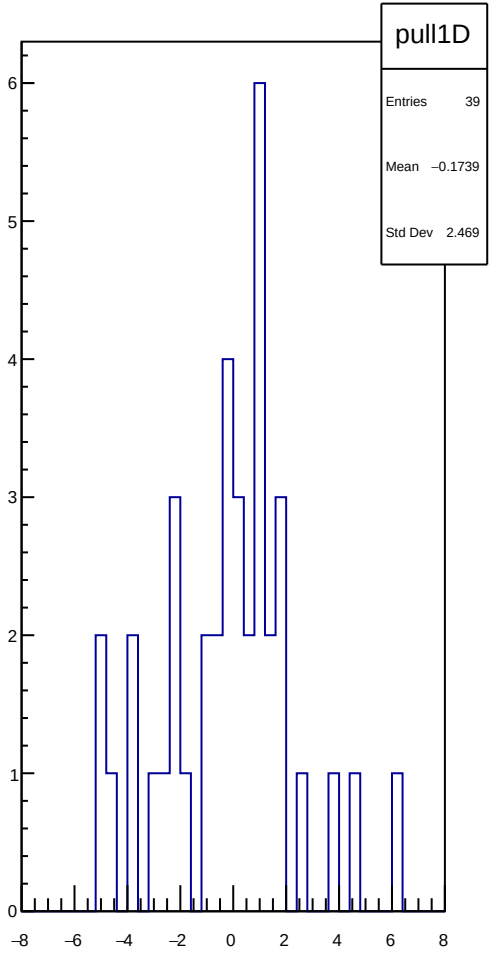

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 255.7 / 38
p0 23.15 ± 0.3988
pull
Entries 39
Mean 70.33
Std Dev 0
pull1D
Entries 39
Mean 0.206
Std Dev 2.552

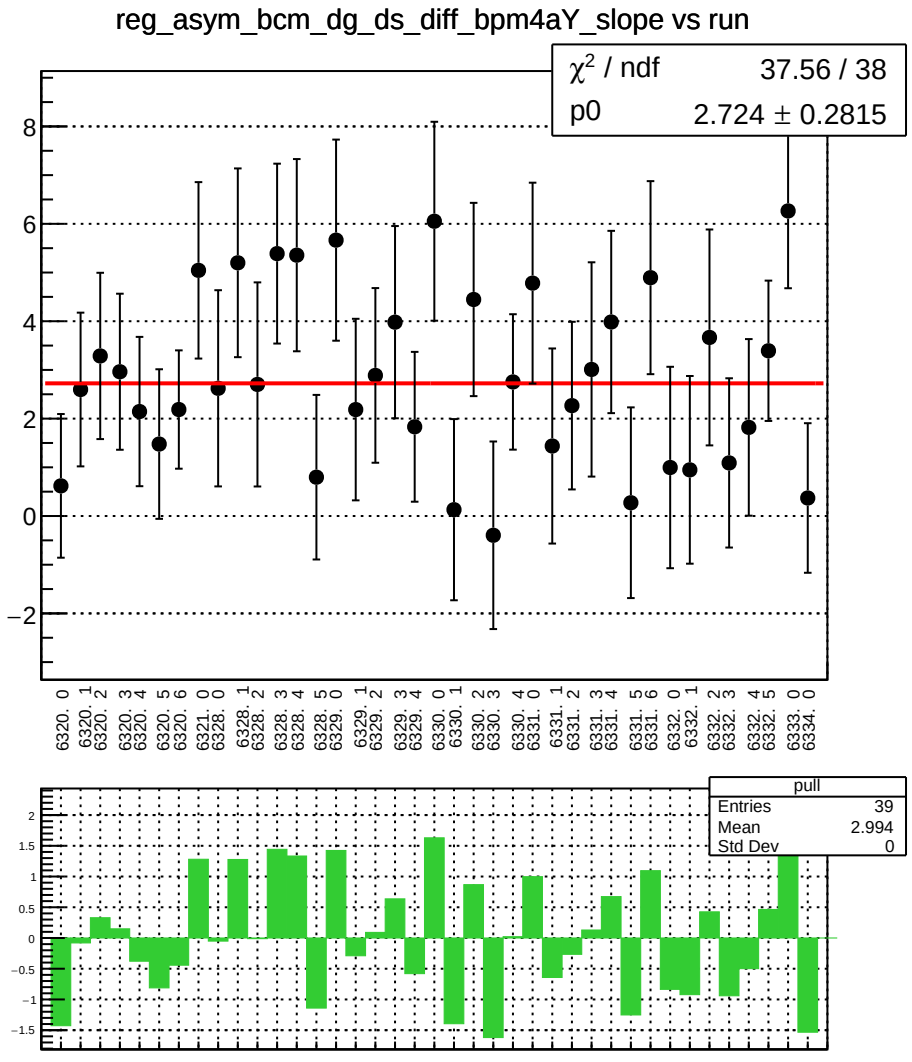

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 48.41 / 38
p0 −5.59 ± 0.3096
pull
Entries 39
Mean −62.37
Std Dev 0

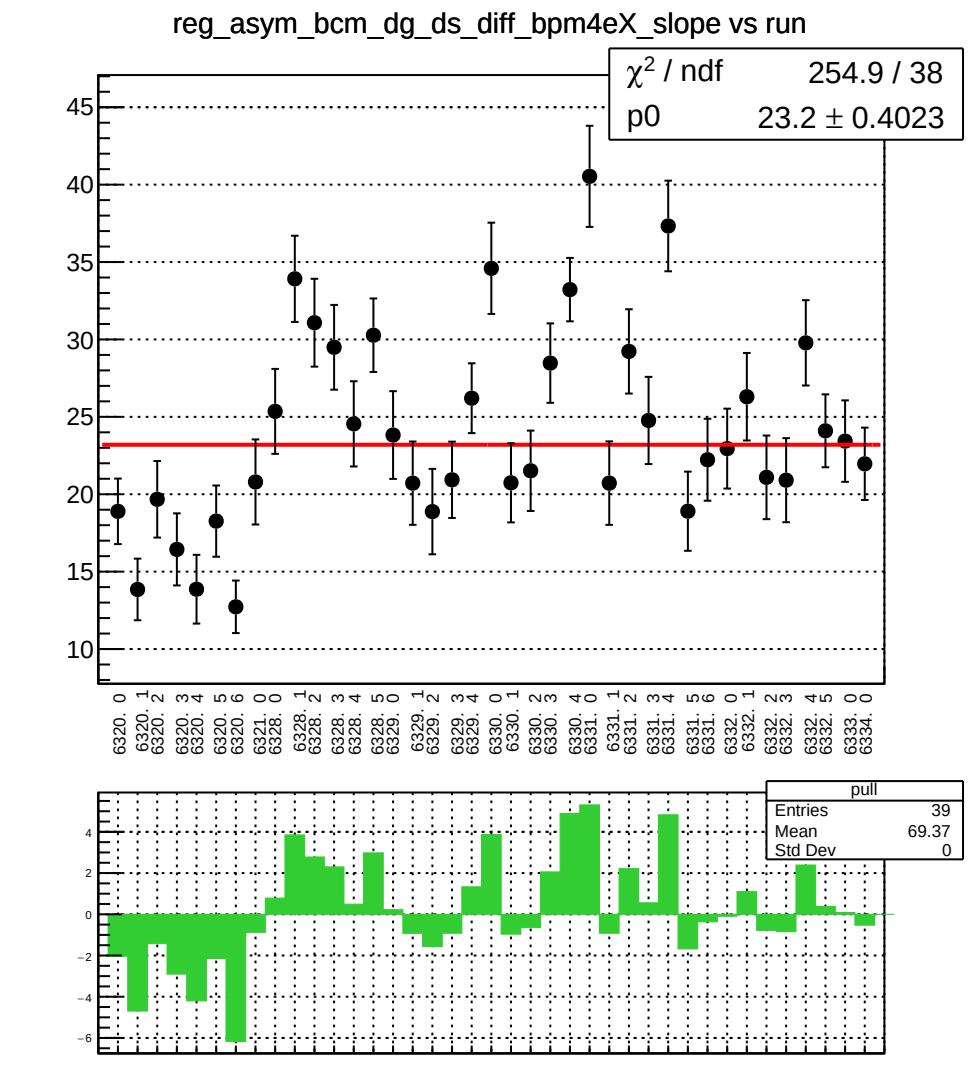

pull1D
Entries 39
Mean −0.02872
Std Dev 1.114

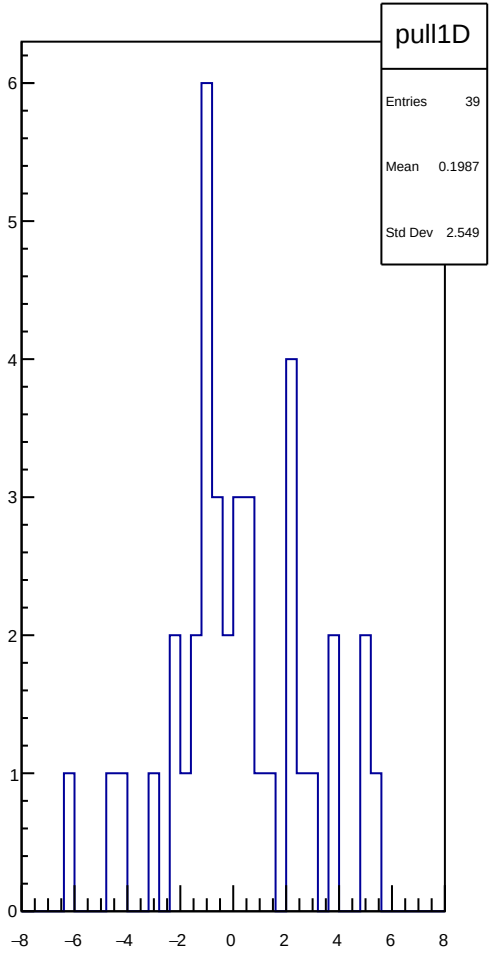

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 61.68 / 38
p0 0.1424 ± 0.0153
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.0725
Std Dev 1.256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

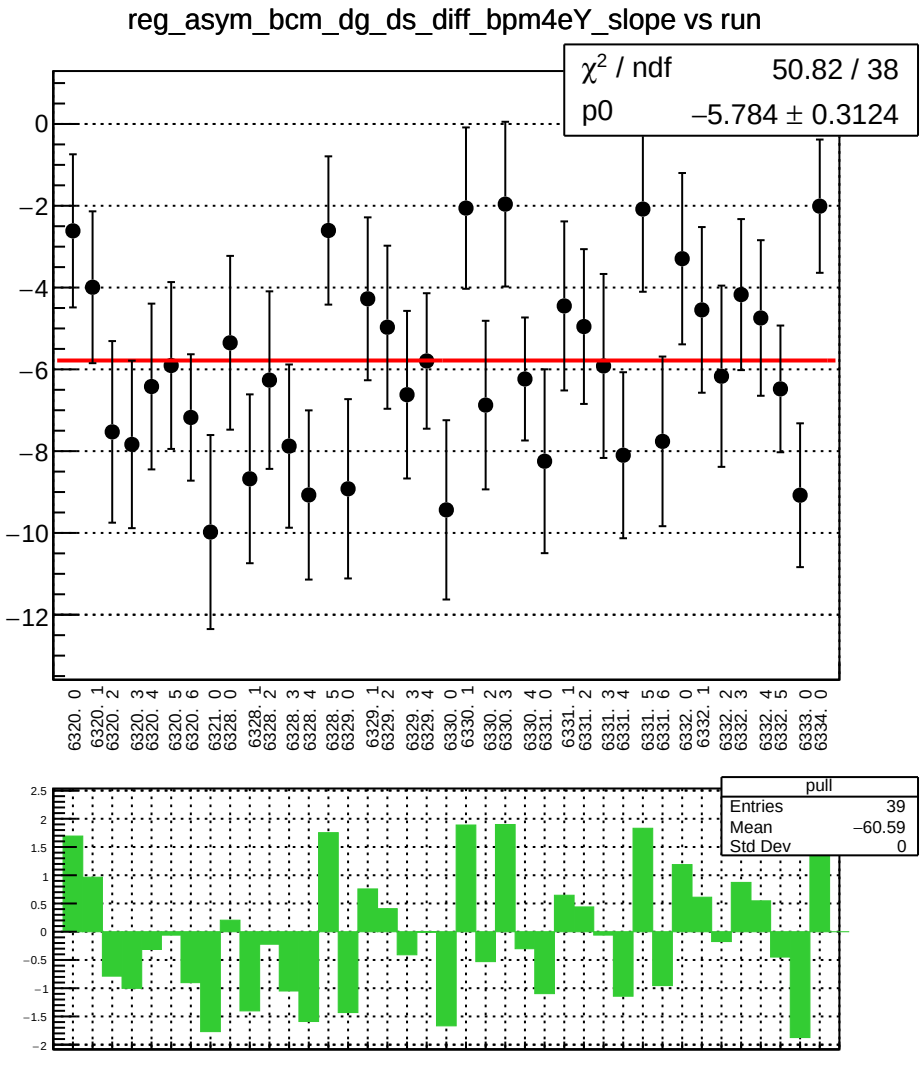

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 239 / 38
p0 −21.25 ± 0.3844
−10
−15
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 74
Std Dev 0
6
4
2
0
−2
−4

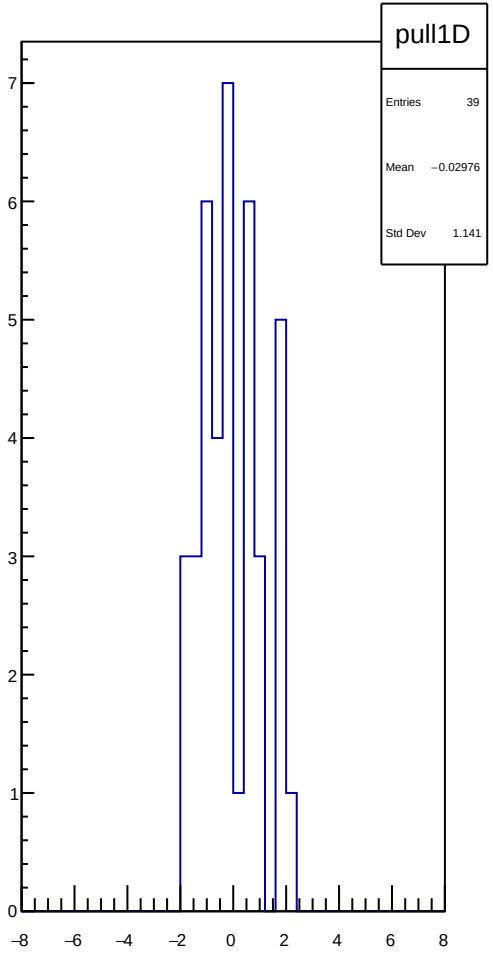

pull1D
Entries 39
Mean −0.1739
Std Dev 2.469
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

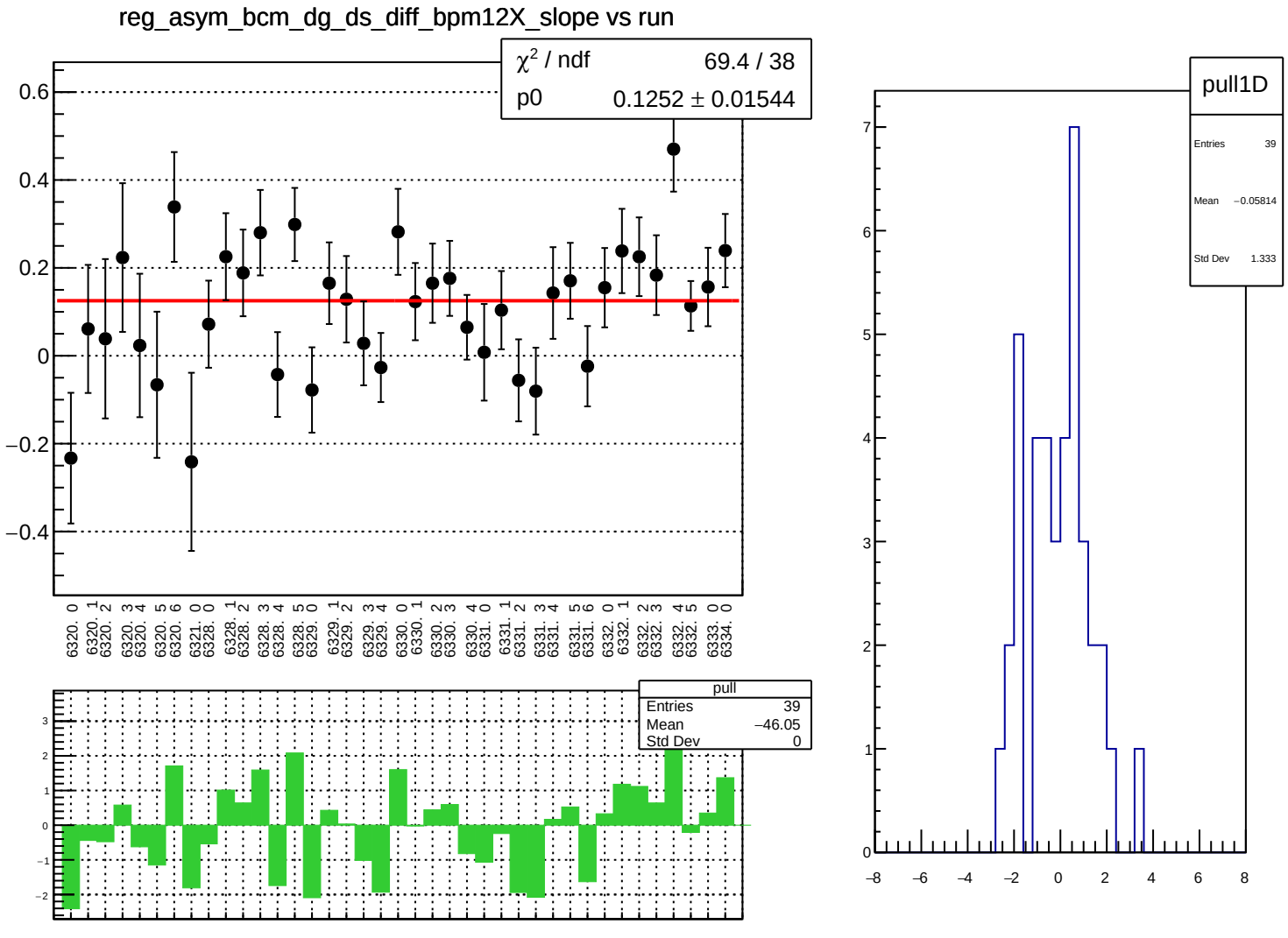

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 37.56 / 38
p0 2.724 ± 0.2815
pull
Entries 39
Mean 2.994
Std Dev 0
pull1D
Entries 39
Mean 0.03553
Std Dev 0.9807

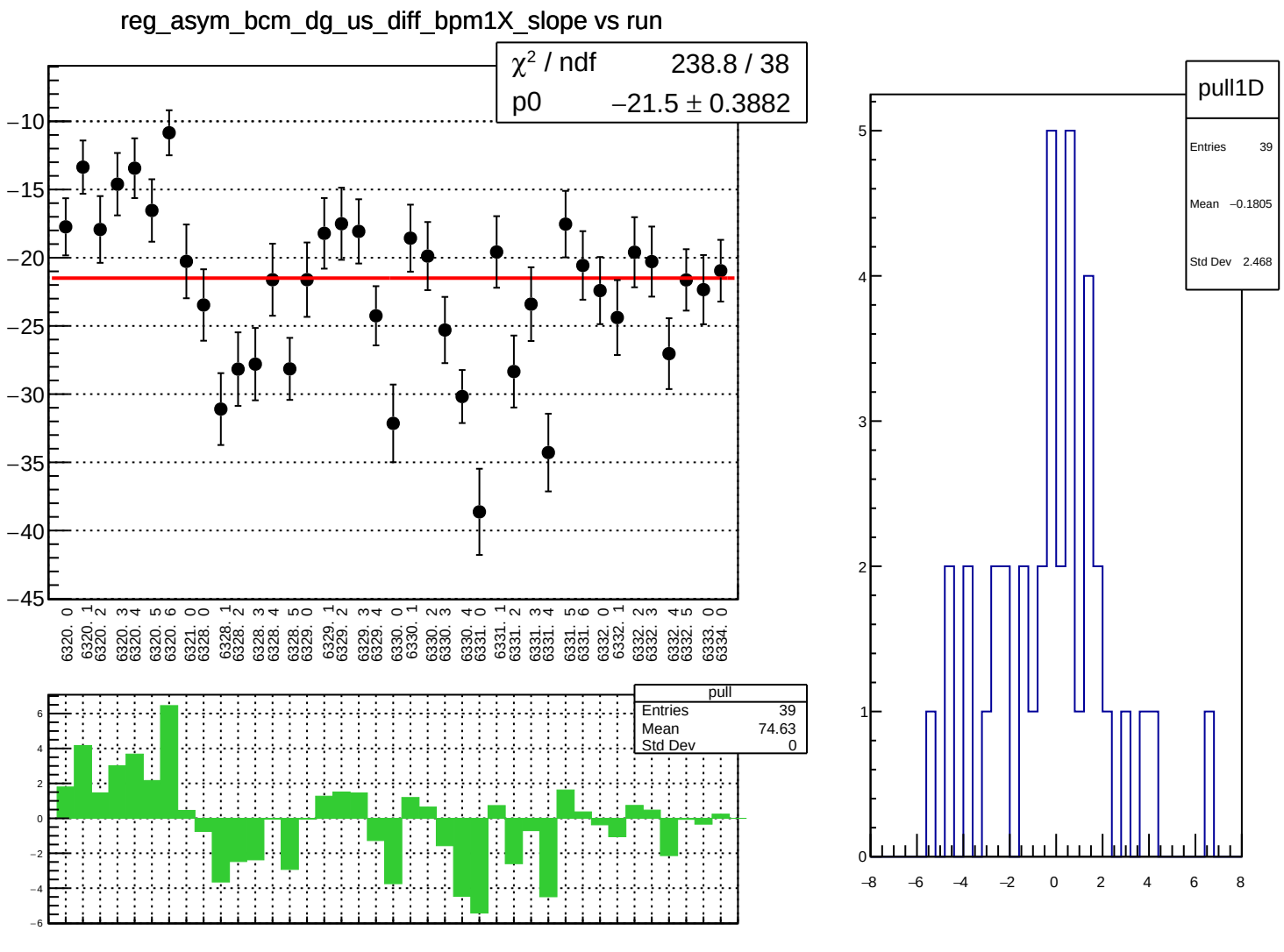

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 254.9 / 38
p0 23.2 ± 0.4023
pull
Entries 39
Mean 69.37
Std Dev 0

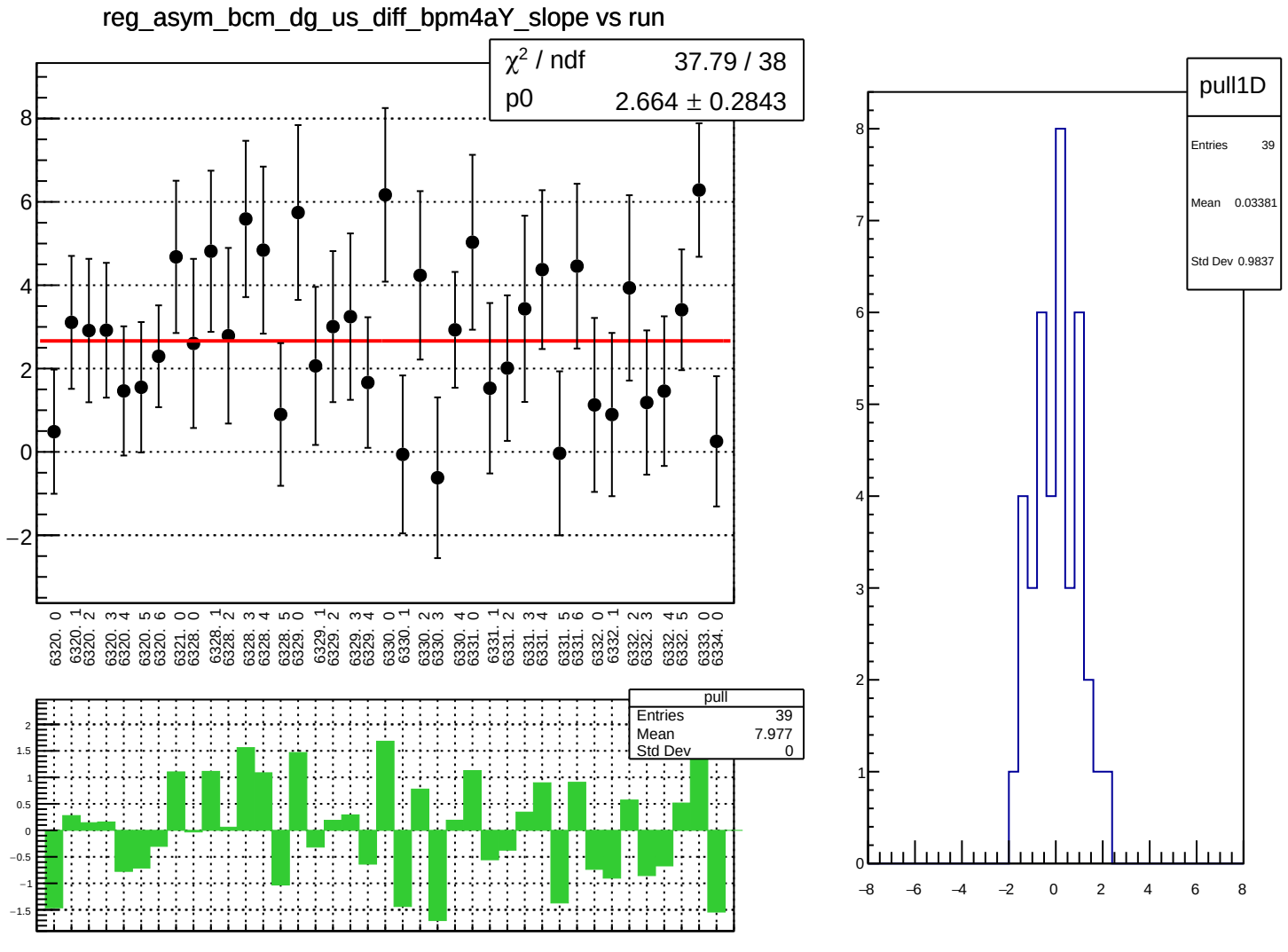

pull1D
Entries 39
Mean 0.1987
Std Dev 2.549

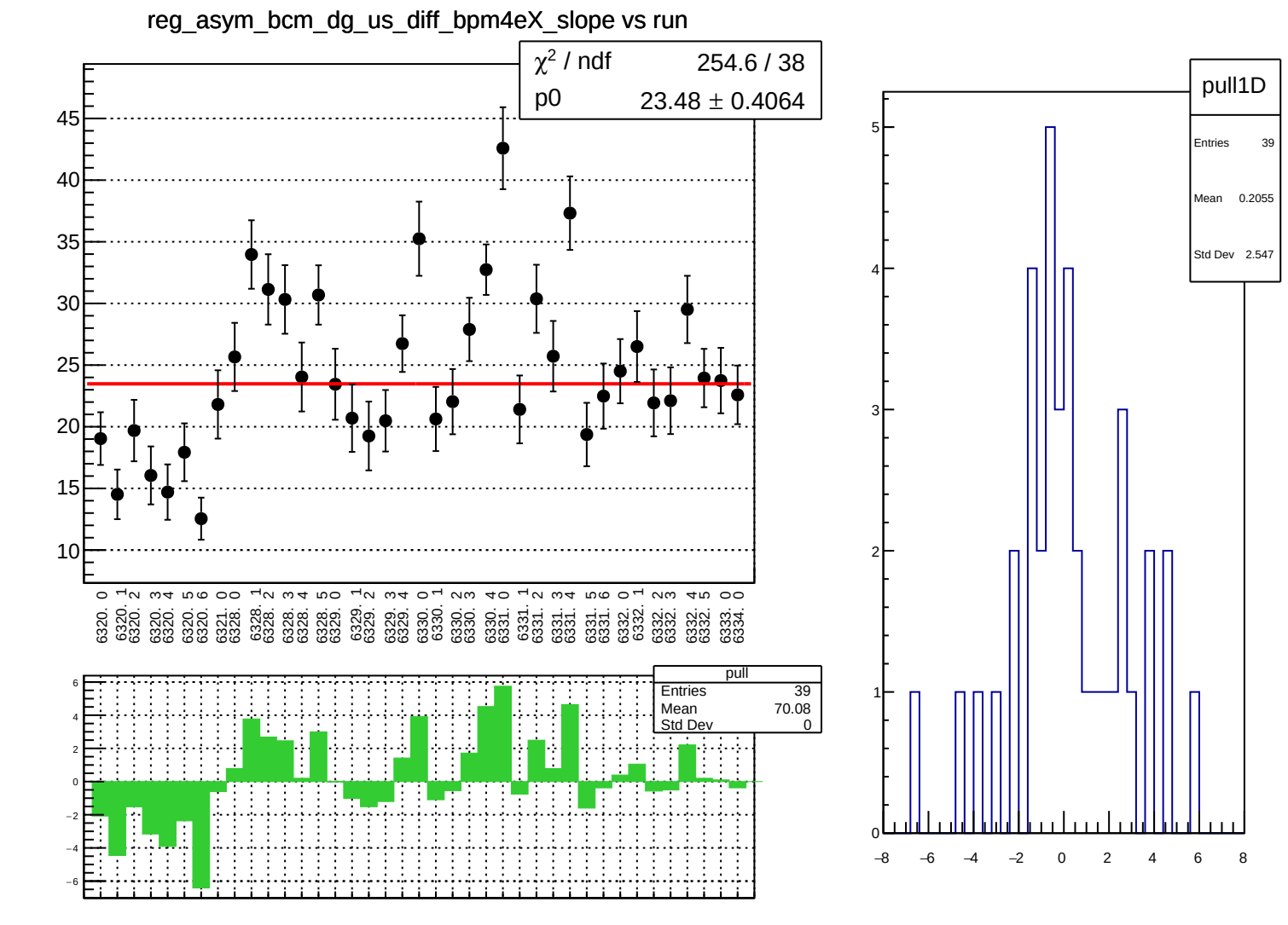

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 50.82 / 38
p0 −5.784 ± 0.3124
pull
Entries 39
Mean −60.59
Std Dev 0

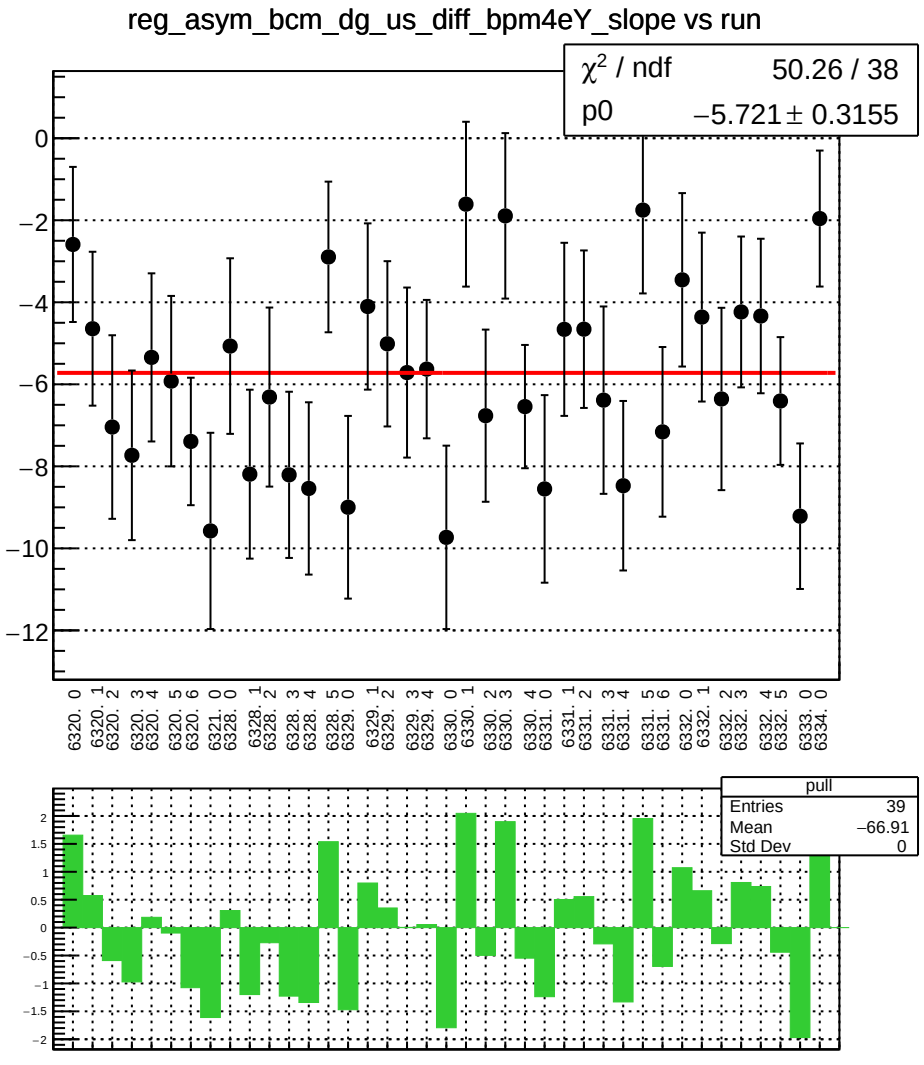

pull1D
Entries 39
Mean −0.02976
Std Dev 1.141

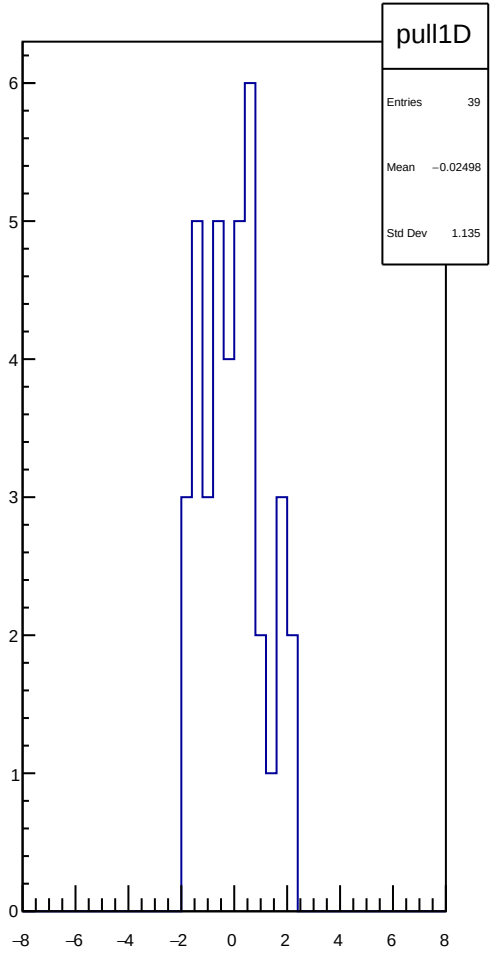

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 69.4 / 38
p0 0.1252 ± 0.01544
0.6
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −46.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05814
Std Dev 1.333
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

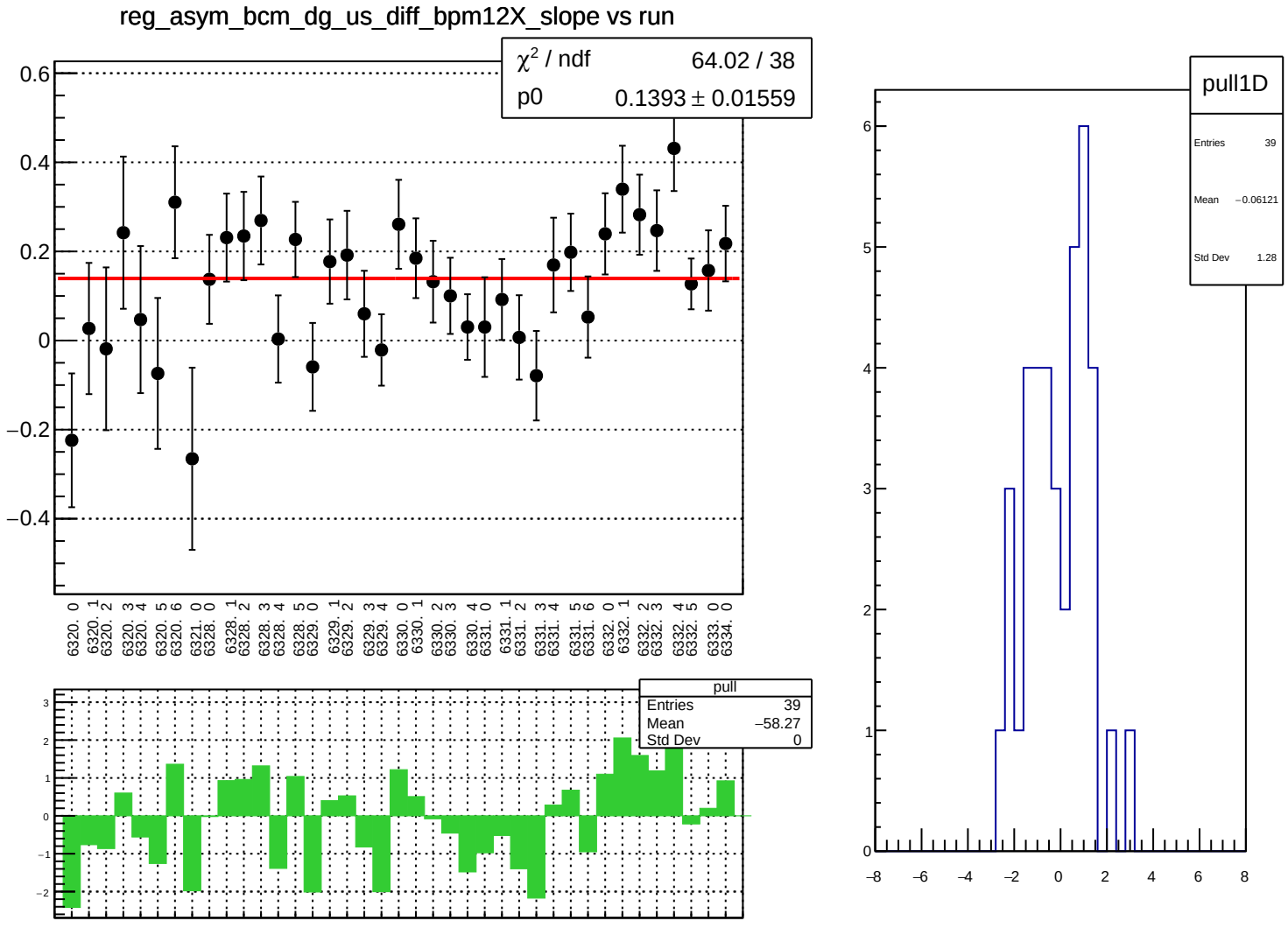

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 238.8 / 38
p0 −21.5 ± 0.3882
pull
Entries 39
Mean 74.63
Std Dev 0
pull1D
Entries 39
Mean −0.1805
Std Dev 2.468

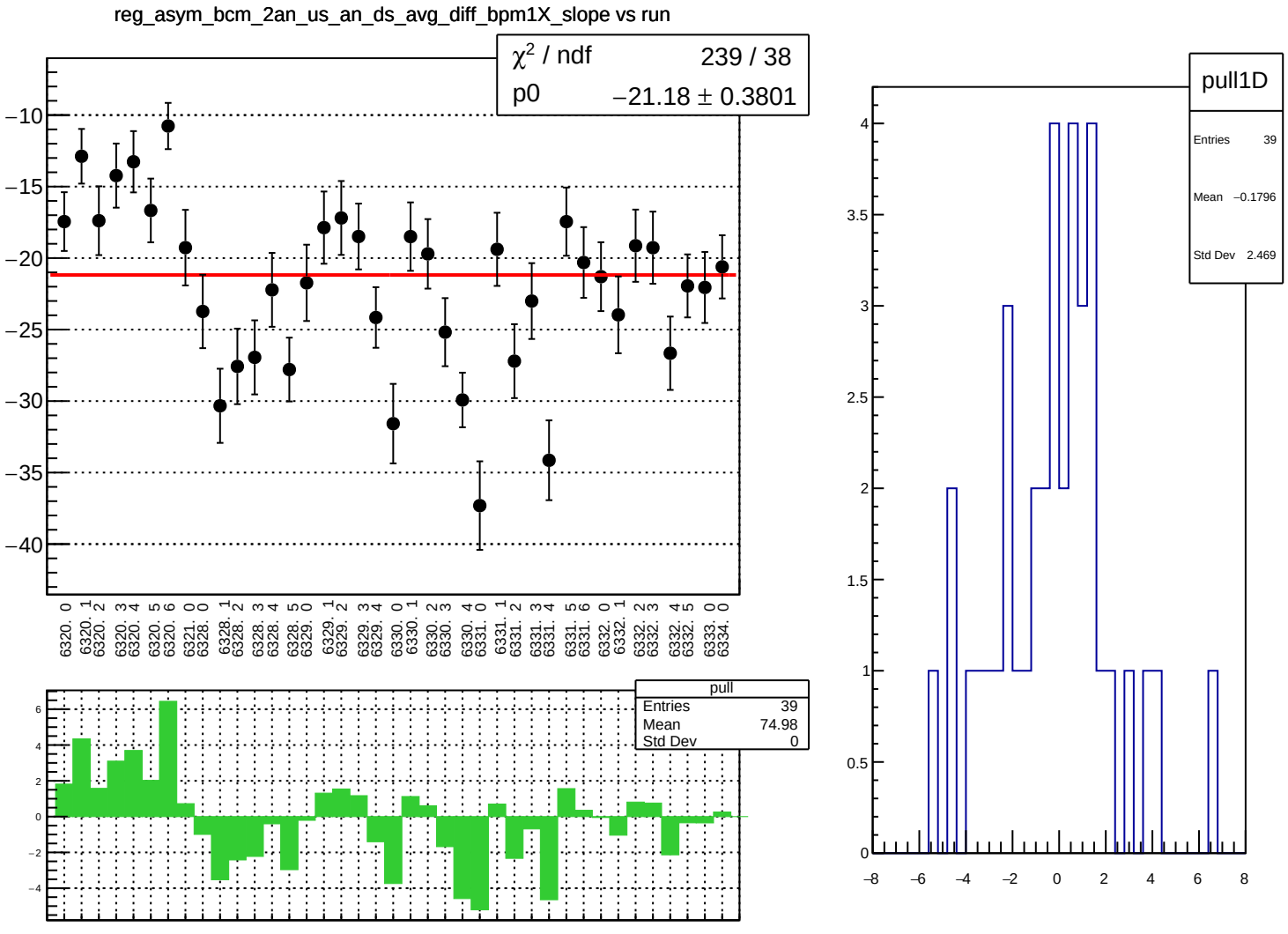

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 37.79 / 38
p0 2.664 ± 0.2843
pull
Entries 39
Mean 7.977
Std Dev 0
pull1D
Entries 39
Mean 0.03381
Std Dev 0.9837

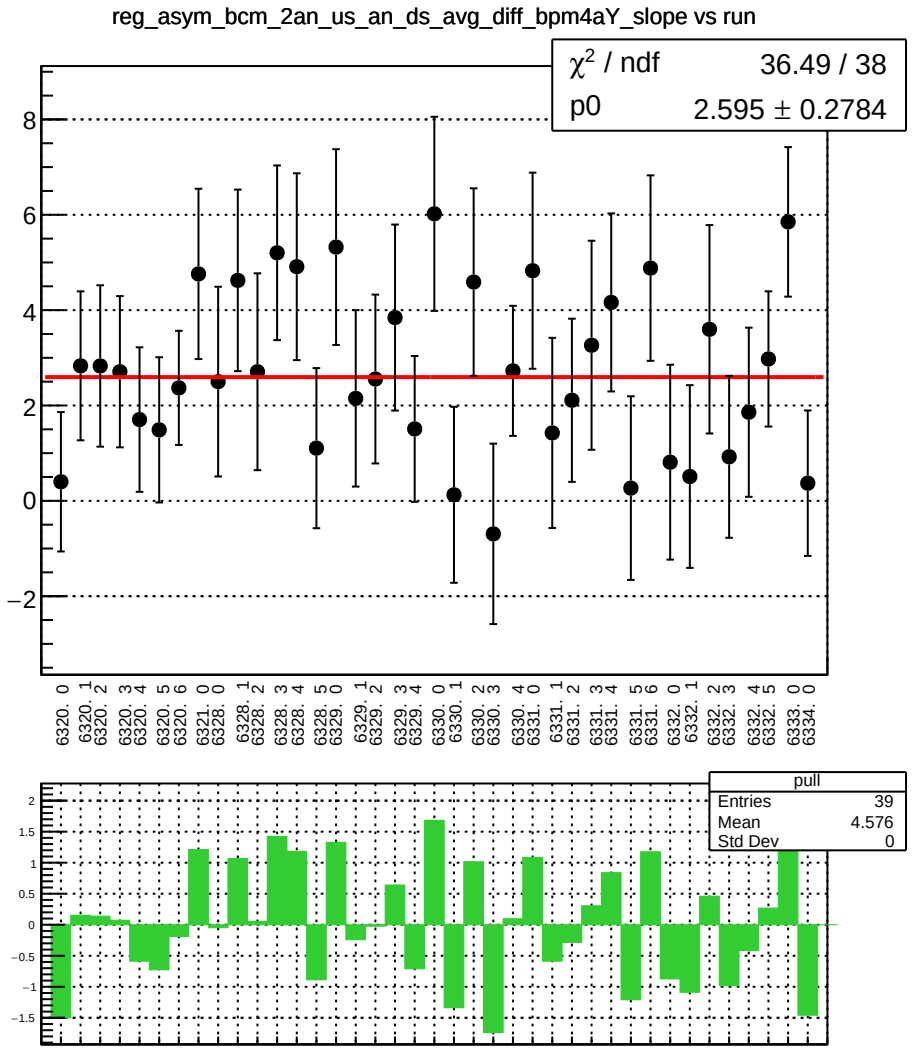

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 254.6 / 38
p0 23.48 ± 0.4064
pull
Entries 39
Mean 70.08
Std Dev 0
pull1D
Entries 39
Mean 0.2055
Std Dev 2.547

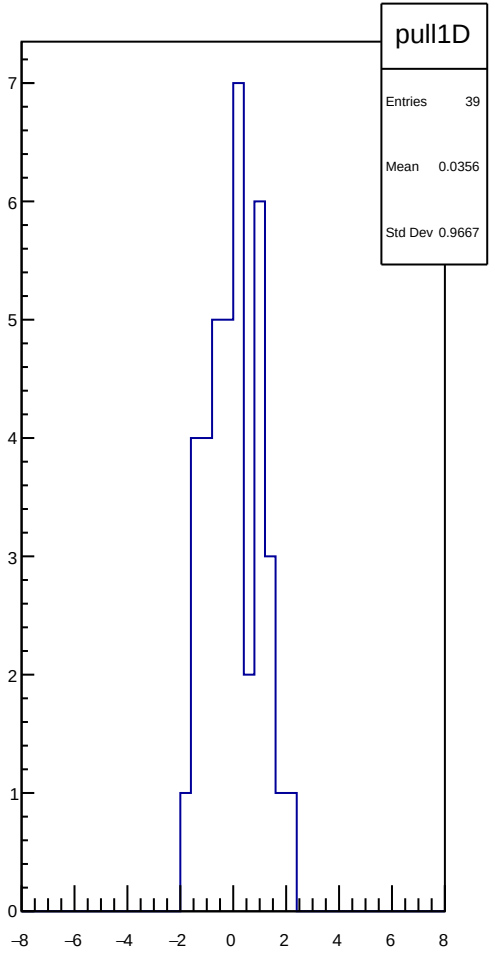

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 50.26 / 38
p0 −5.721 ± 0.3155
0
−2
−4
−6
−8
−10
−12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −66.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

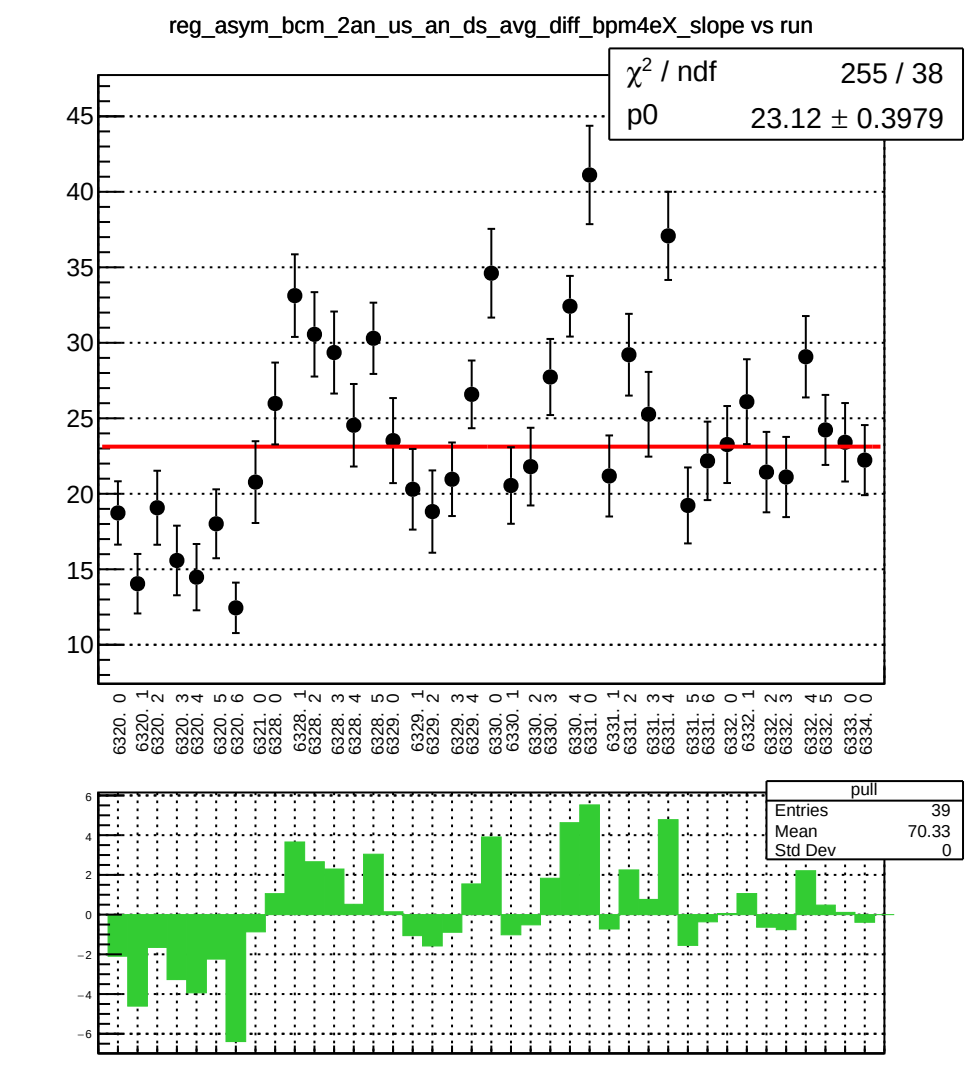

pull1D
Entries 39
Mean −0.02498
Std Dev 1.135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

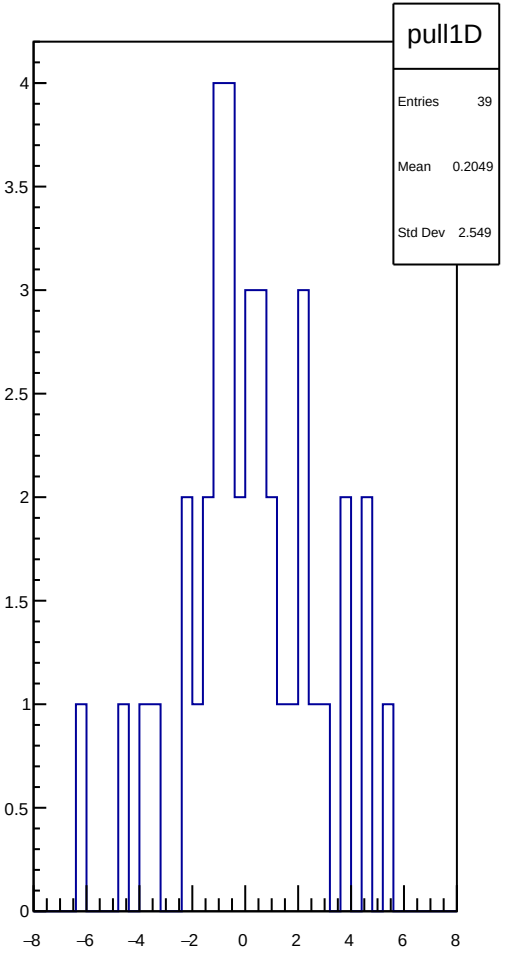

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 64.02 / 38
p0 0.1393 ± 0.01559
0.6
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −58.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.06121
Std Dev 1.28
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

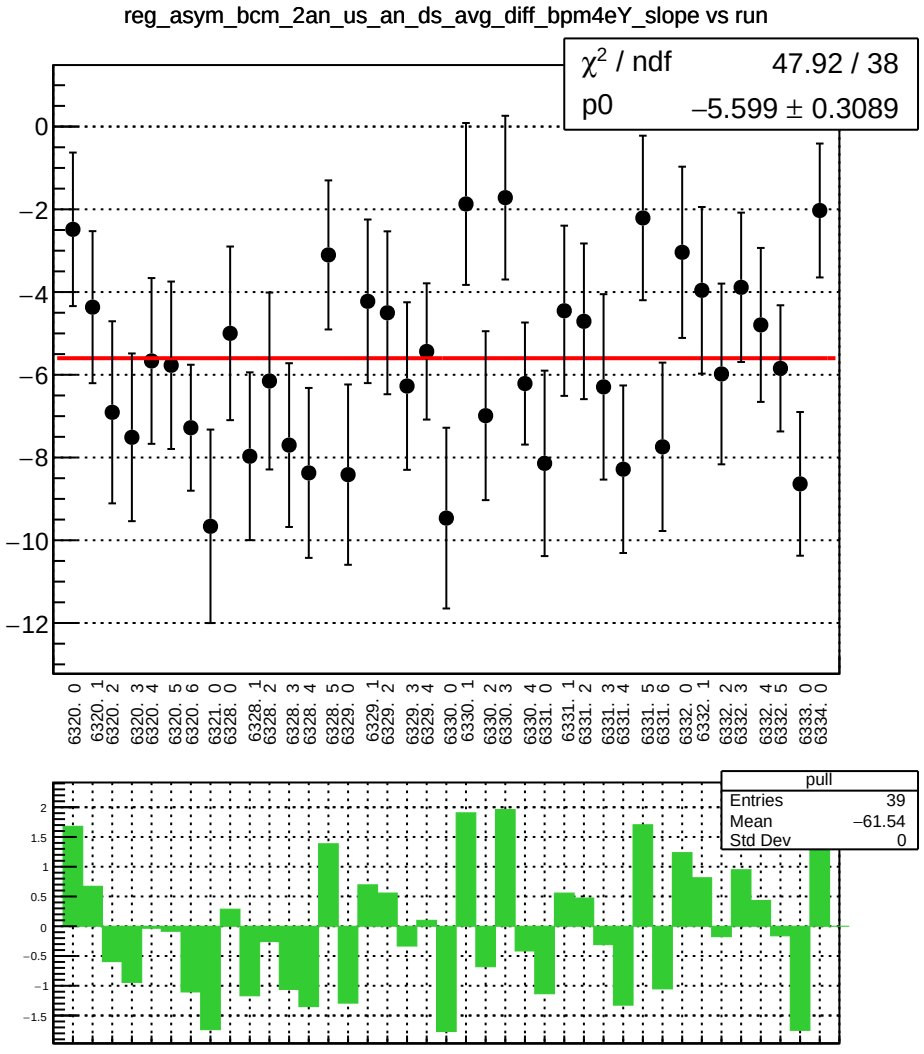

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 239 / 38
p0 −21.18 ± 0.3801
pull
Entries 39
Mean 74.98
Std Dev 0
pull1D
Entries 39
Mean −0.1796
Std Dev 2.469

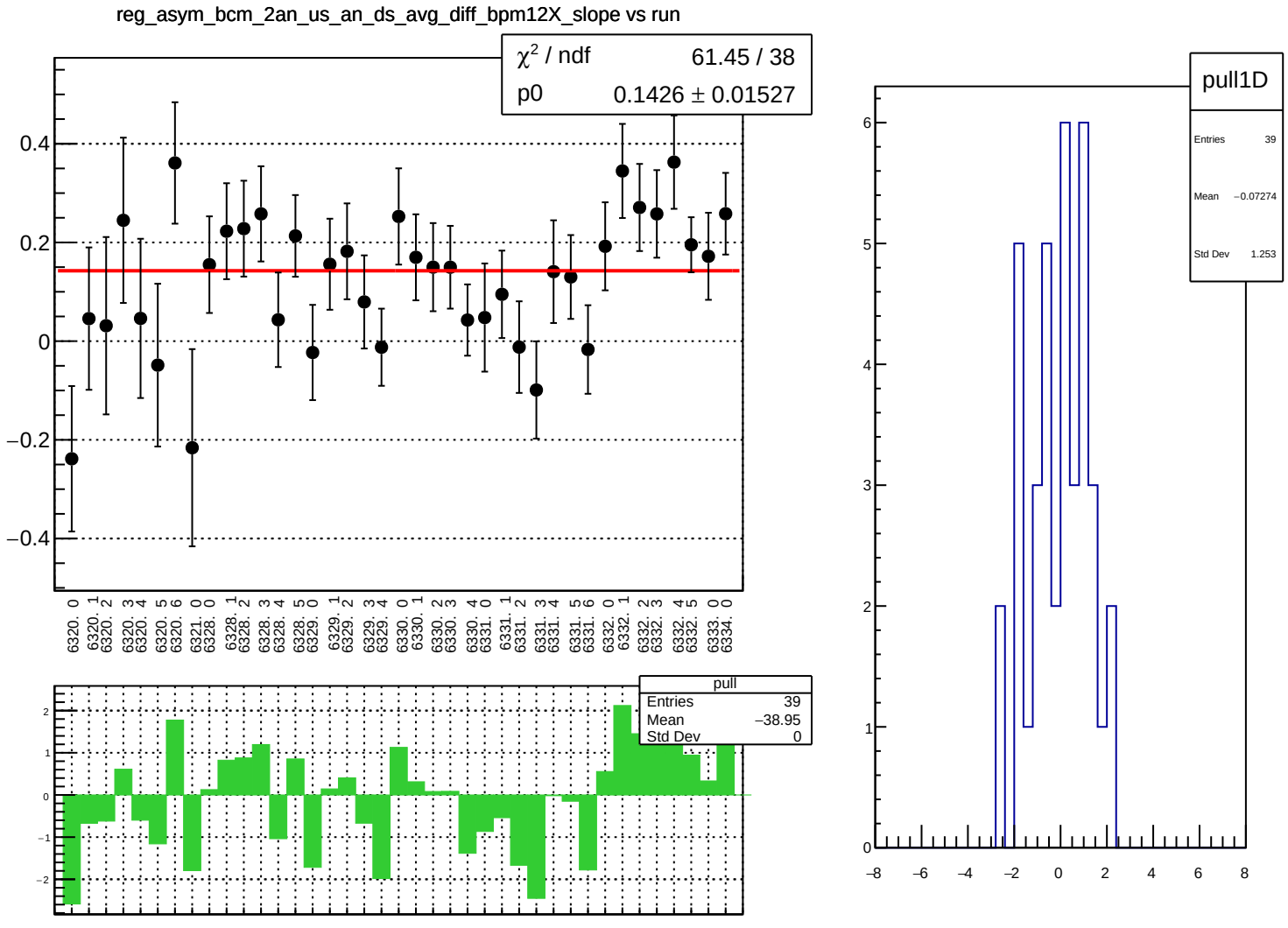

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.49 / 38
p0 2.595 ± 0.2784
pull
Entries 39
Mean 4.576
Std Dev 0

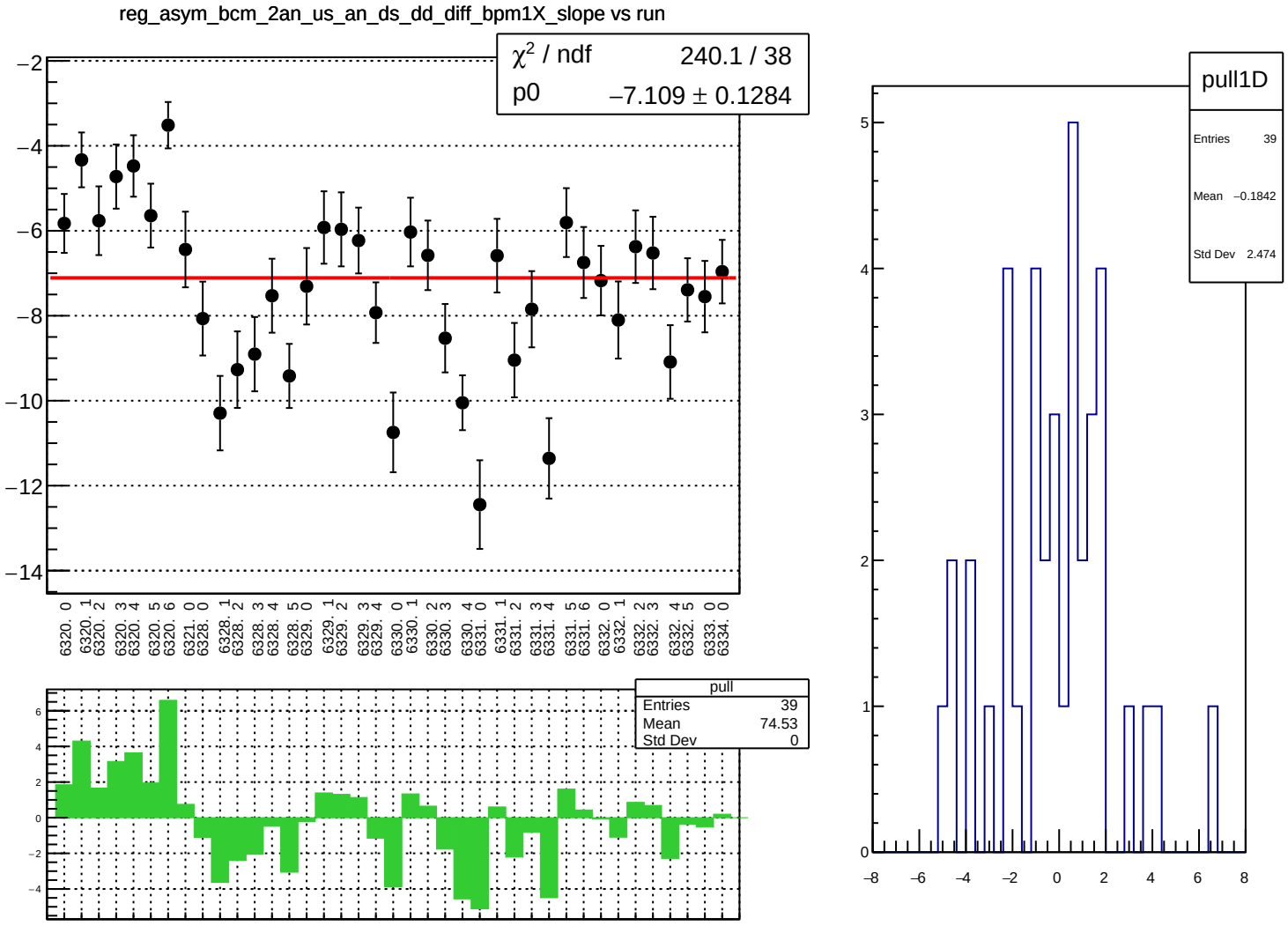

pull1D
Entries 39
Mean 0.0356
Std Dev 0.9667

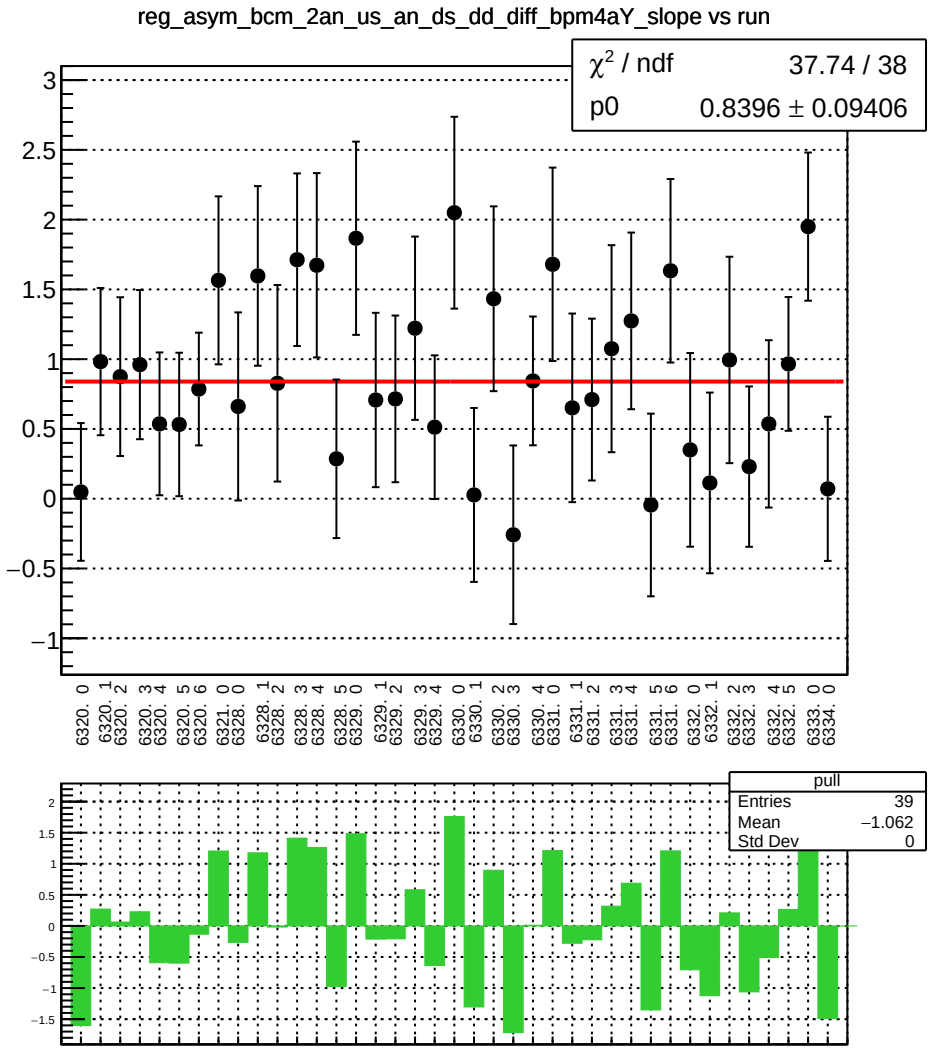

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 255 / 38
p0 23.12 ± 0.3979
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 70.33
Std Dev 0
6
4
2
0
−2
−4
−6

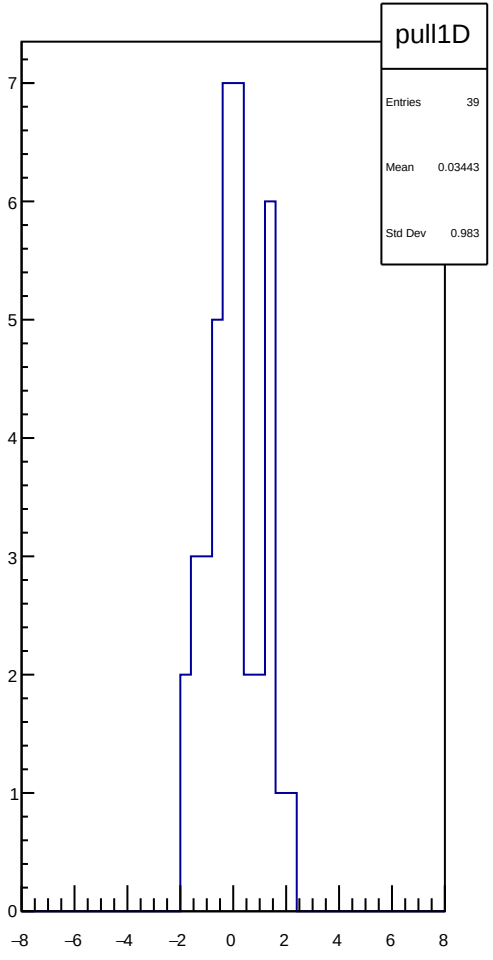

pull1D
Entries 39
Mean 0.2049
Std Dev 2.549
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

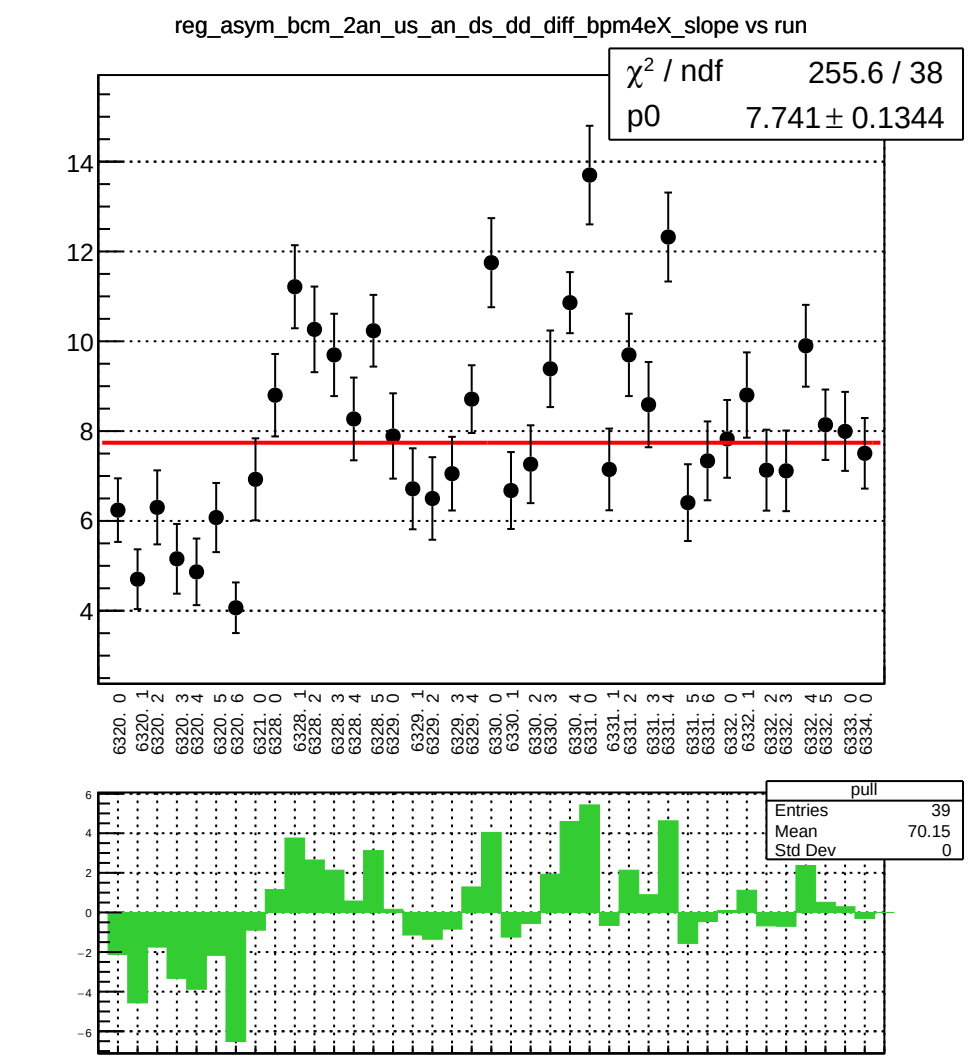

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.92 / 38
p0 −5.599 ± 0.3089
pull
Entries 39
Mean −61.54
Std Dev 0
pull1D
Entries 39
Mean −0.02842
Std Dev 1.108

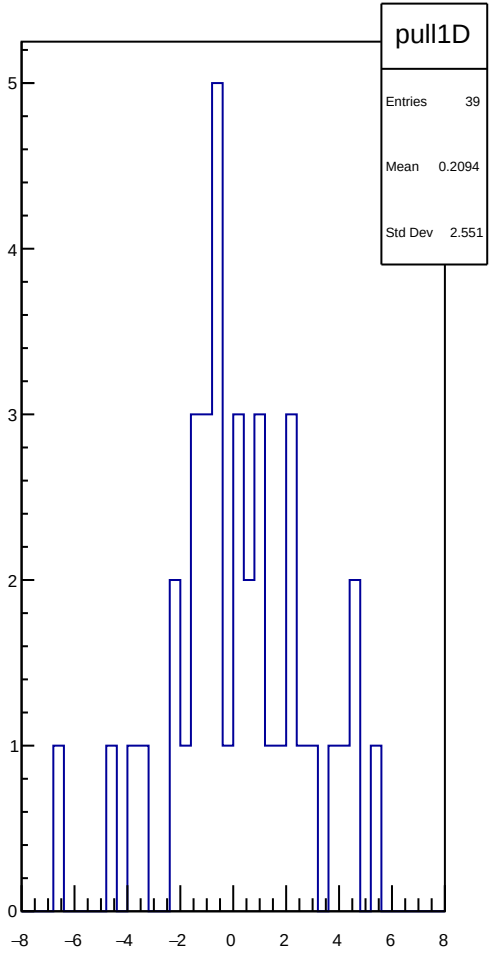

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 61.45 / 38
p0 0.1426 ± 0.01527
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −38.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07274
Std Dev 1.253
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

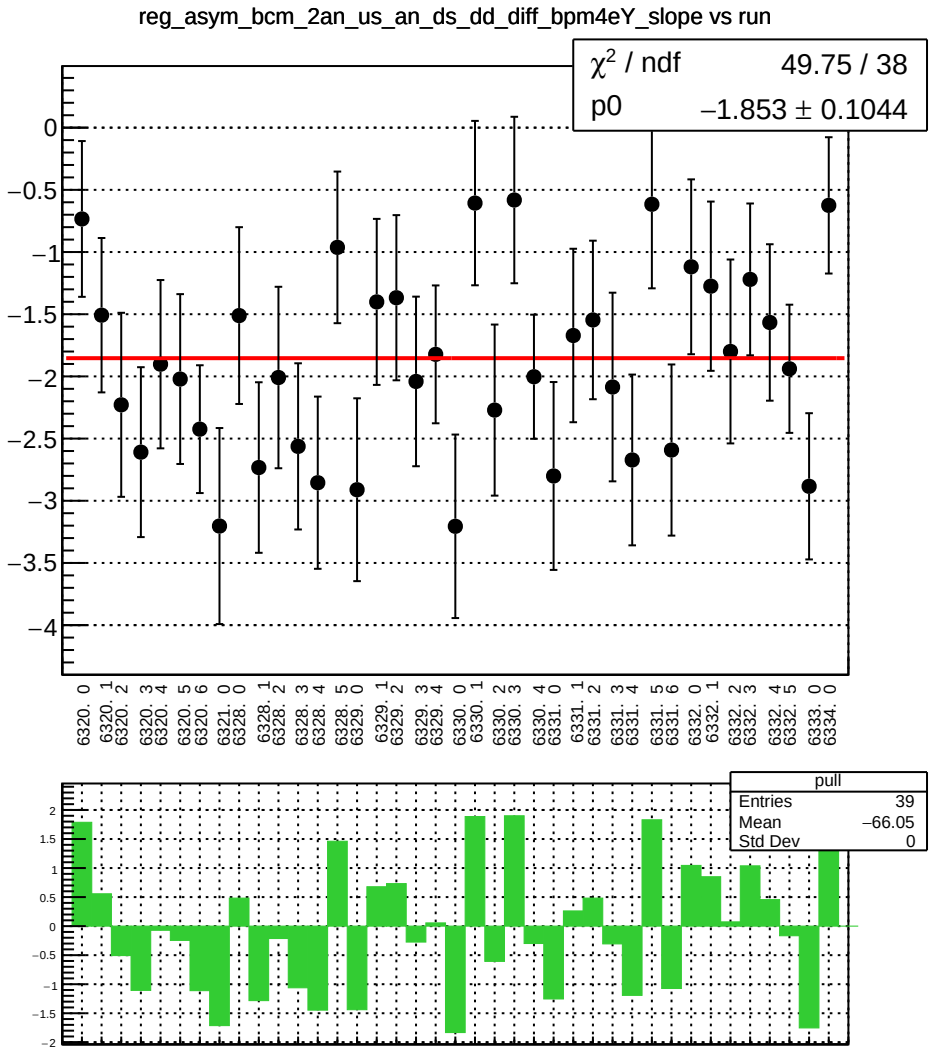

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 240.1 / 38
p0 −7.109 ± 0.1284
pull
Entries 39
Mean 74.53
Std Dev 0
pull1D
Entries 39
Mean −0.1842
Std Dev 2.474

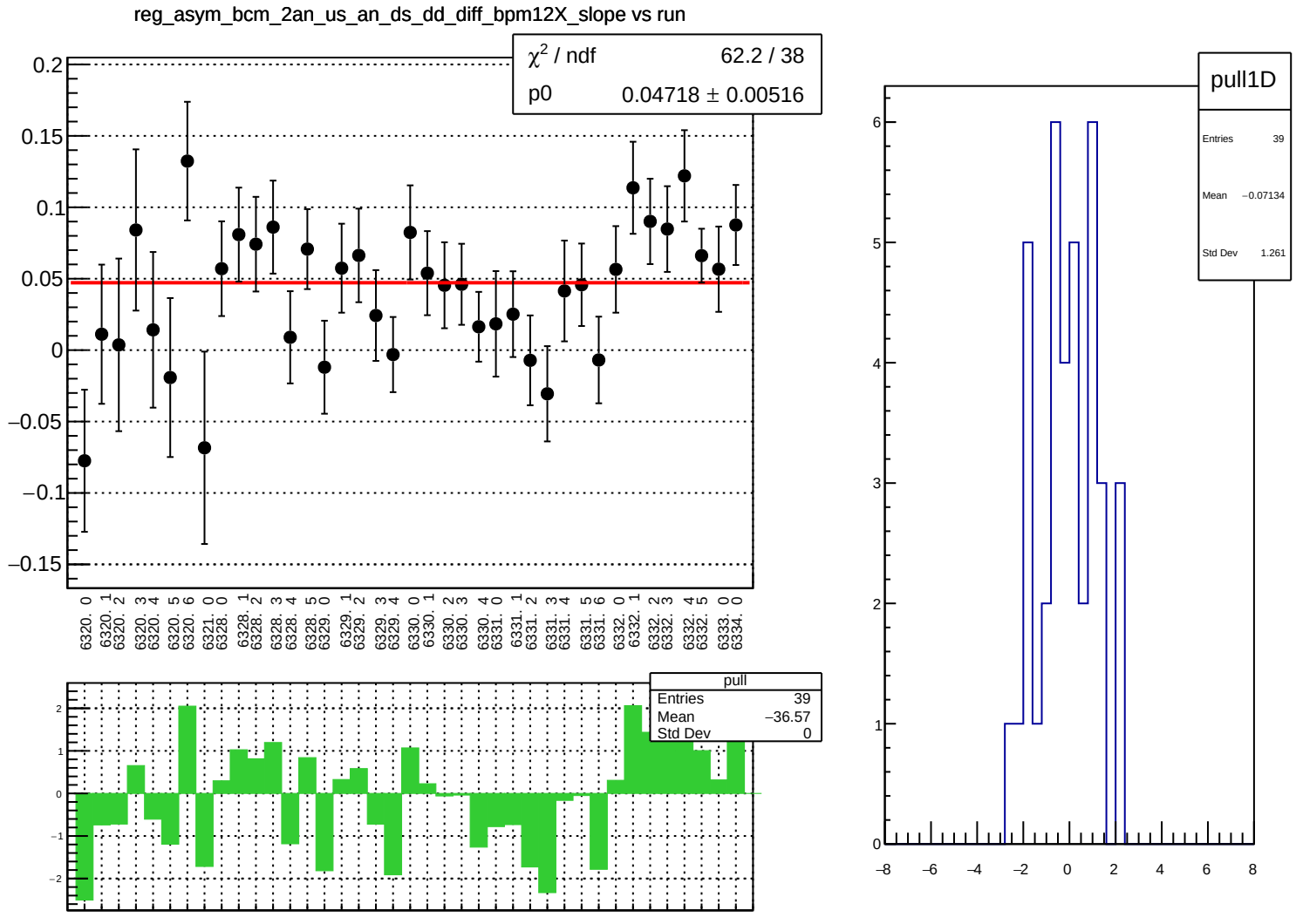

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.74 / 38
p0 0.8396 ± 0.09406
pull
Entries 39
Mean −1.062
Std Dev 0

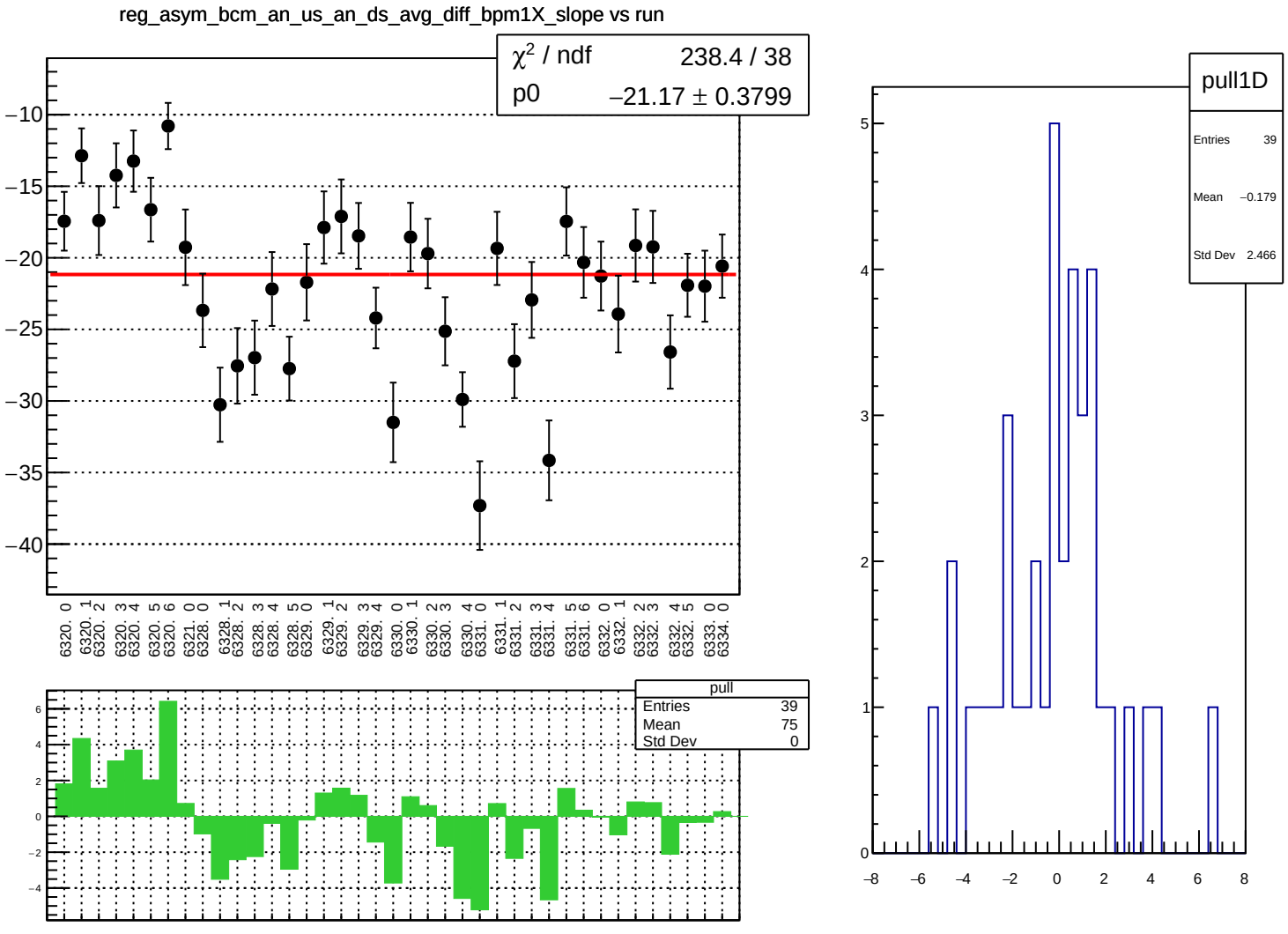

pull1D
Entries 39
Mean 0.03443
Std Dev 0.983

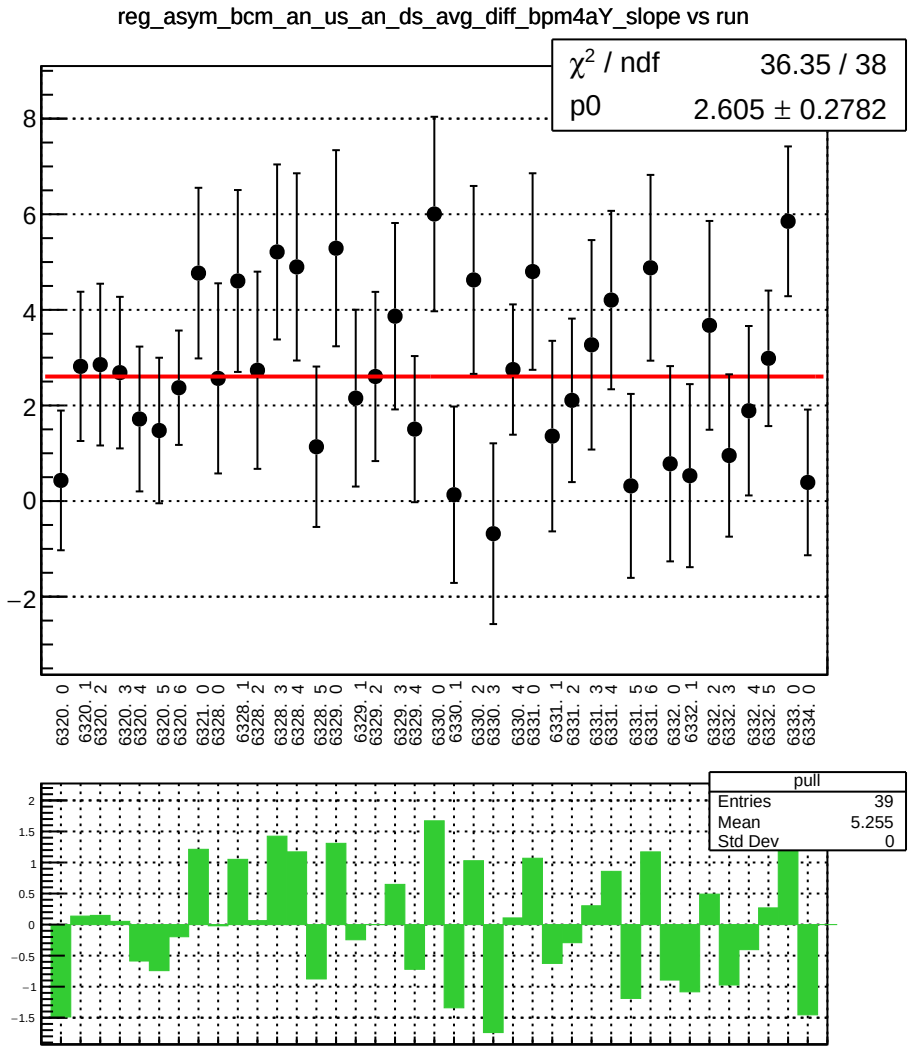

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 255.6 / 38
p0 7.741 ± 0.1344
pull
Entries 39
Mean 70.15
Std Dev 0

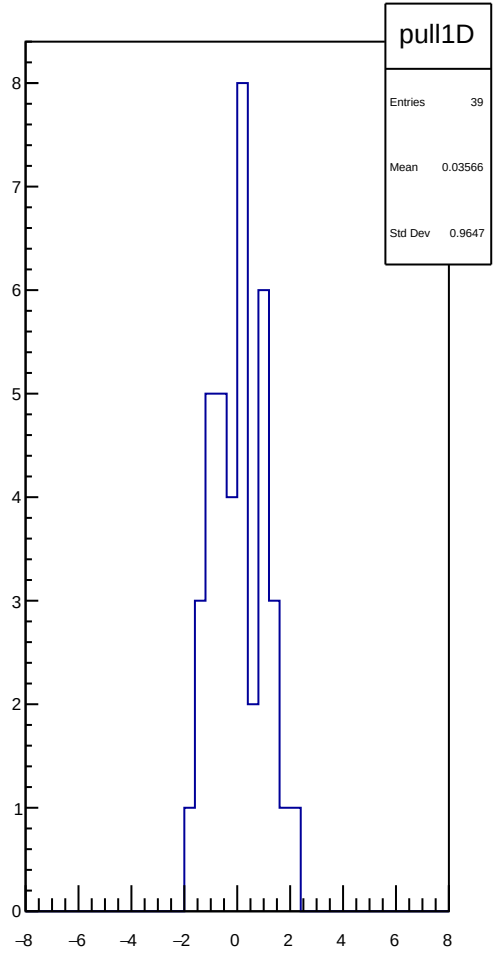

pull1D
Entries 39
Mean 0.2094
Std Dev 2.551

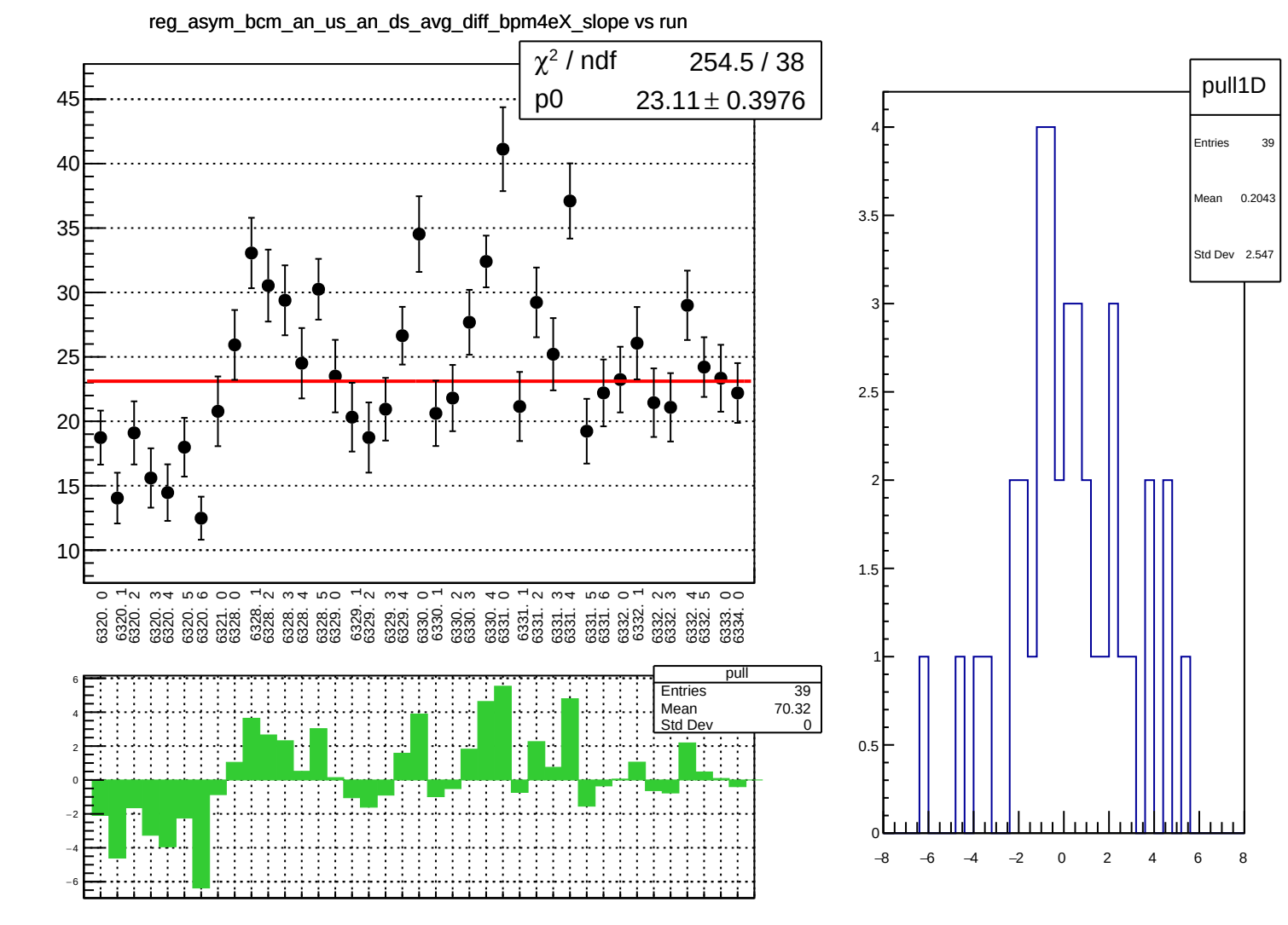

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.75 / 38
p0 −1.853 ± 0.1044
pull
Entries 39
Mean −66.05
Std Dev 0
pull1D
Entries 39
Mean −0.02902
Std Dev 1.129

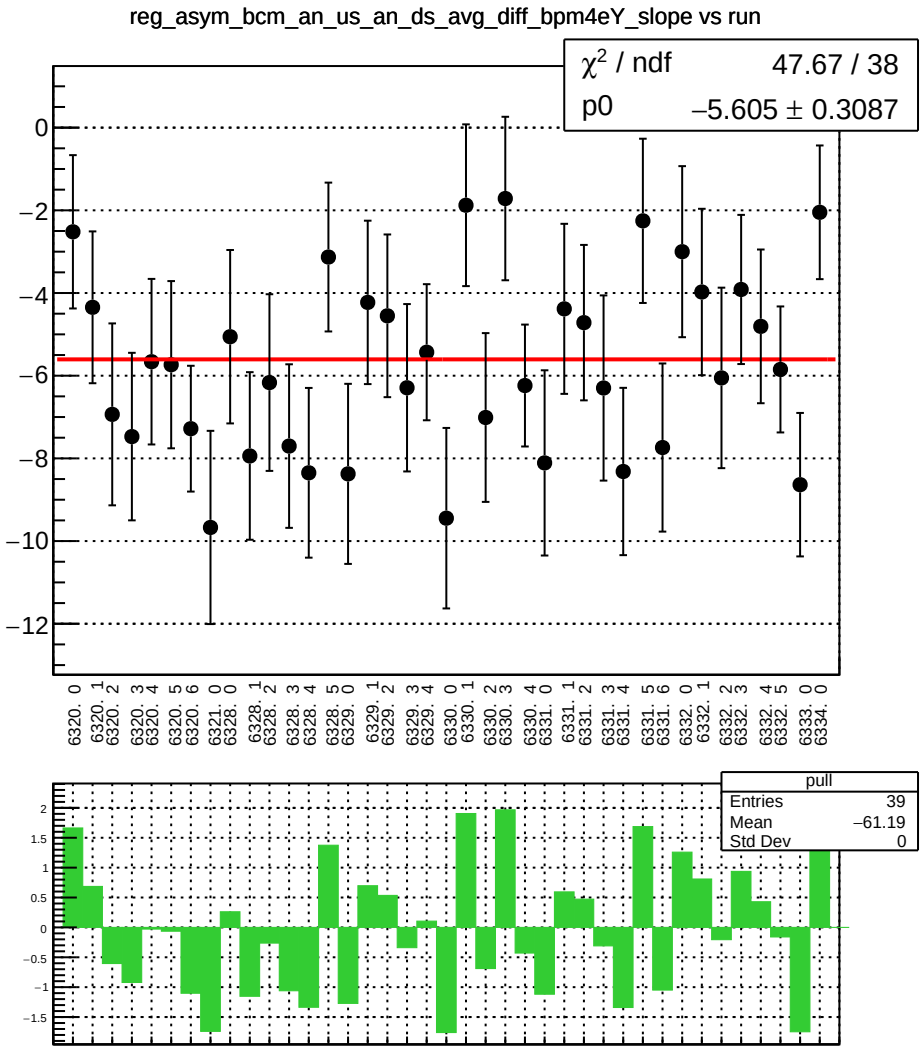

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 62.2 / 38
p0 0.04718 ± 0.00516
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −36.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07134
Std Dev 1.261
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

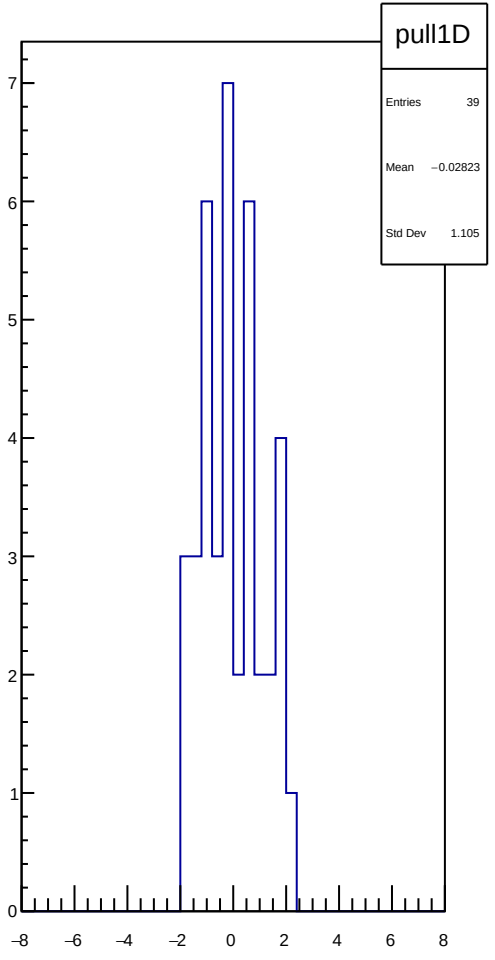

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 238.4 / 38
p0 −21.17 ± 0.3799
−10
−15
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 75
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 39
Mean −0.179
Std Dev 2.466
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

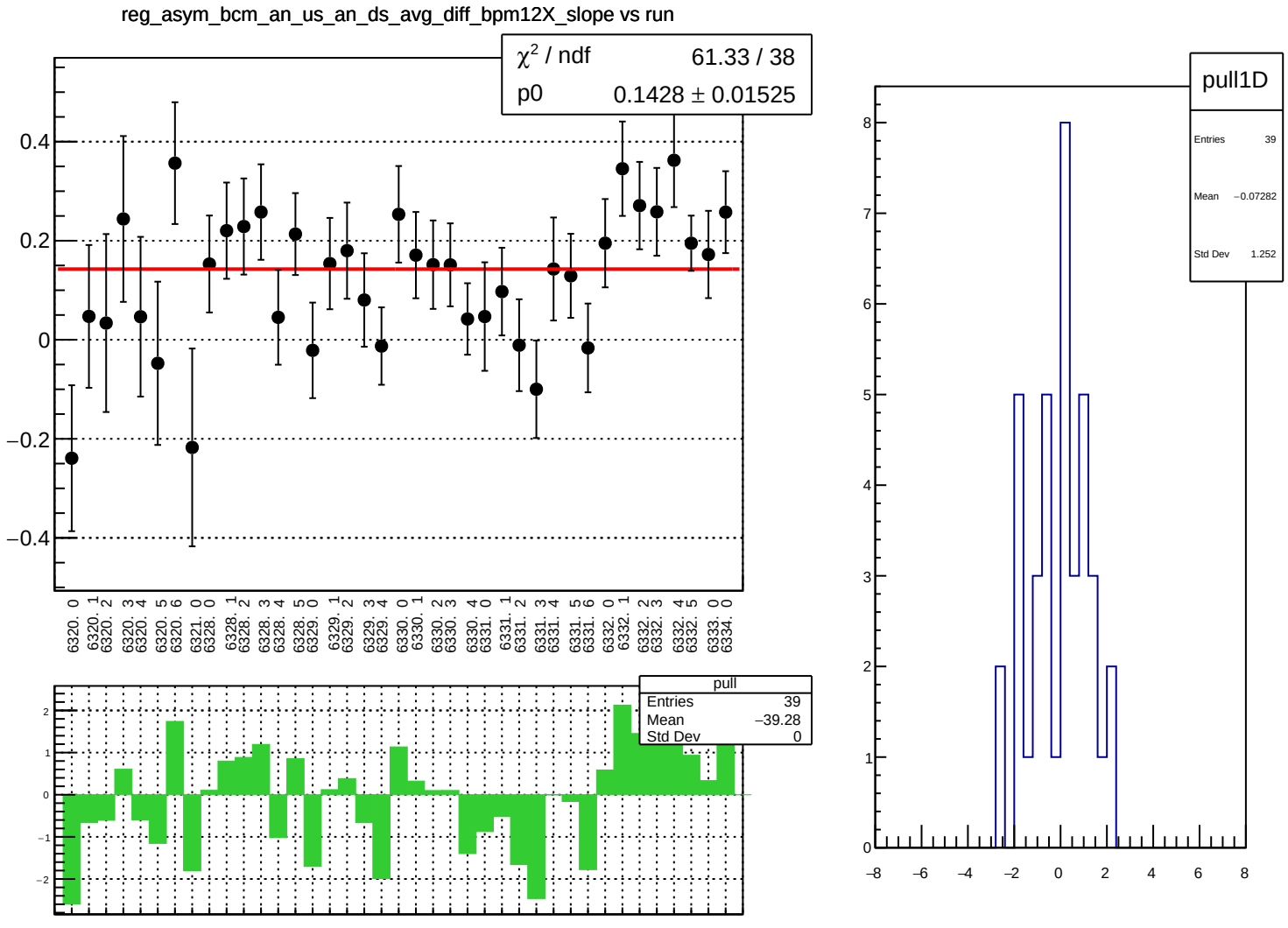

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.35 / 38
p0 2.605 ± 0.2782
pull
Entries 39
Mean 5.255
Std Dev 0

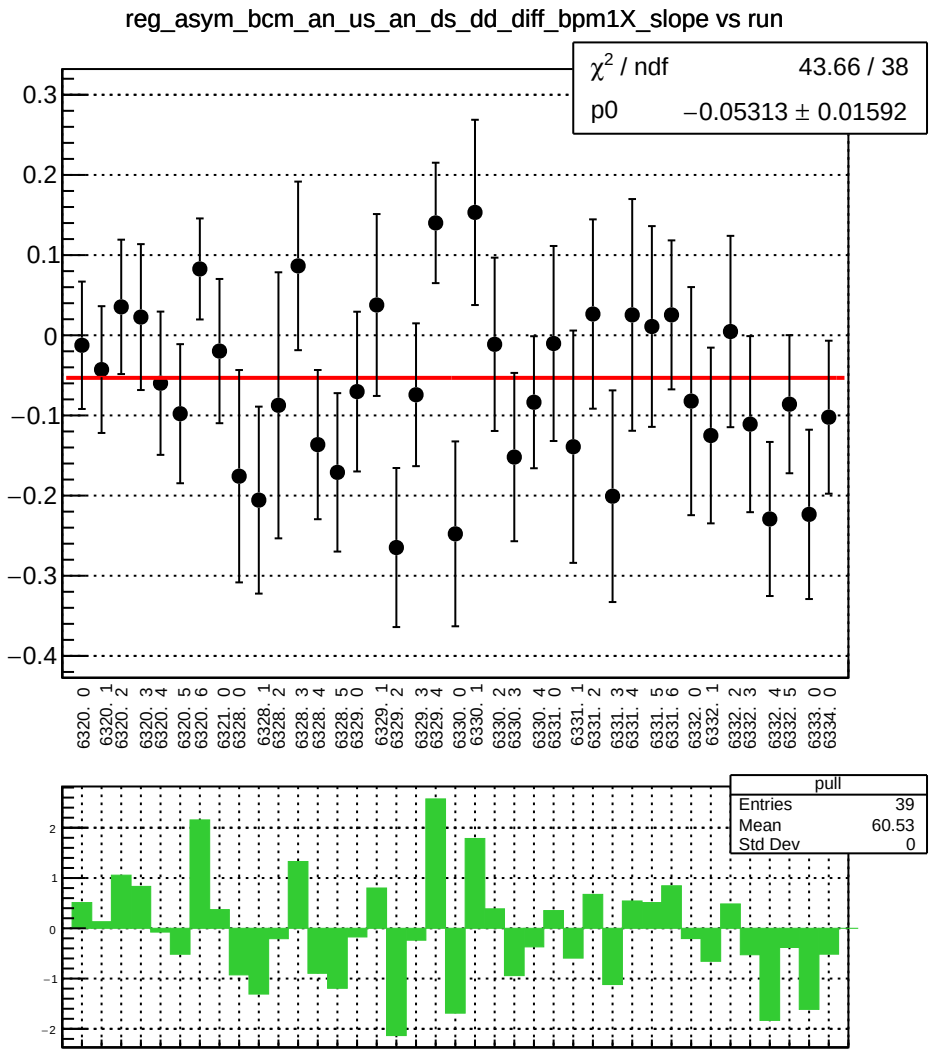

pull1D
Entries 39
Mean 0.03566
Std Dev 0.9647

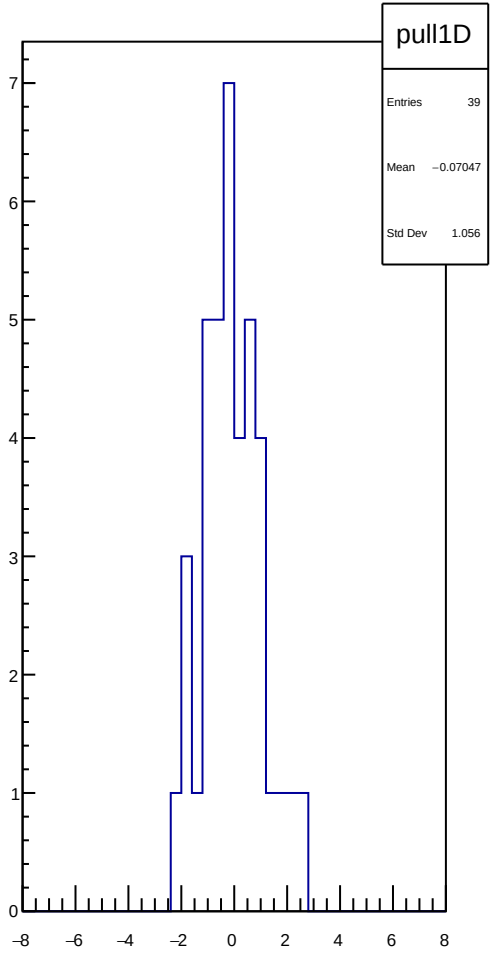

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 254.5 / 38
p0 23.11 ± 0.3976
pull
Entries 39
Mean 70.32
Std Dev 0
pull1D
Entries 39
Mean 0.2043
Std Dev 2.547

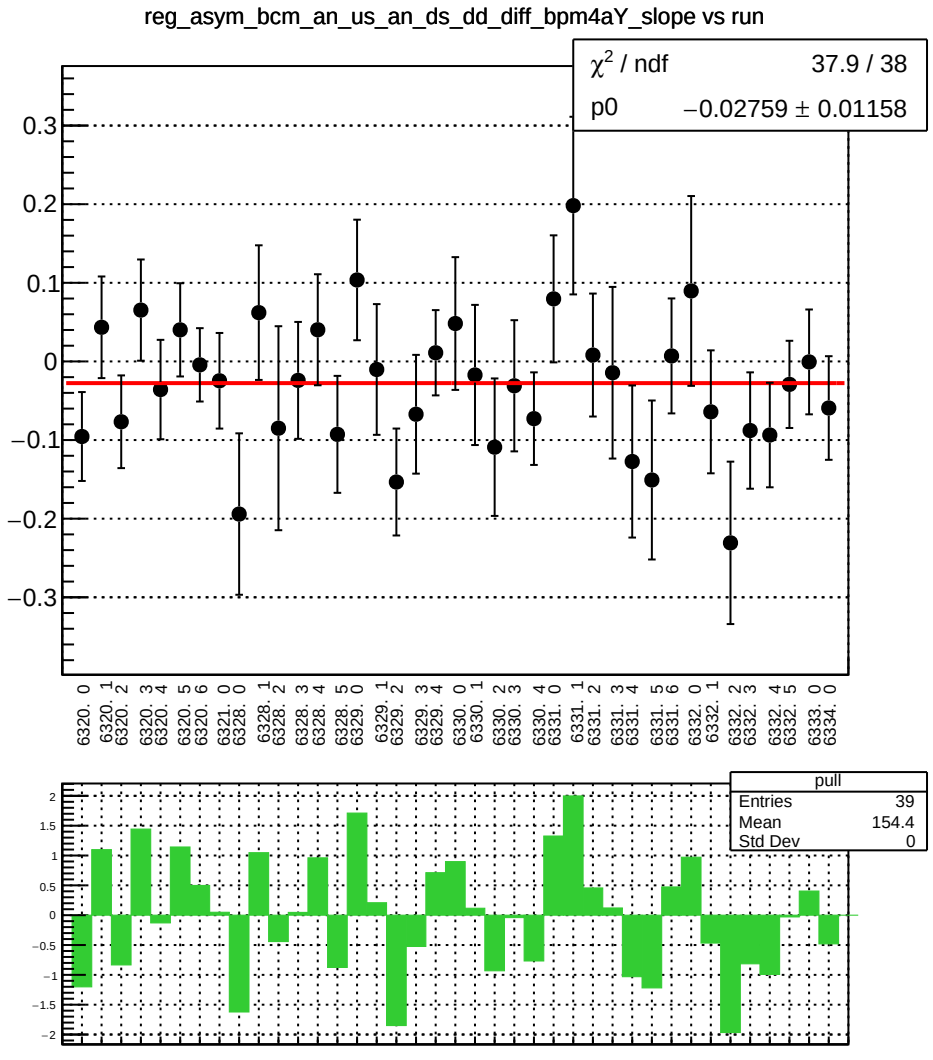

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.67 / 38
p0 −5.605 ± 0.3087
pull
Entries 39
Mean −61.19
Std Dev 0

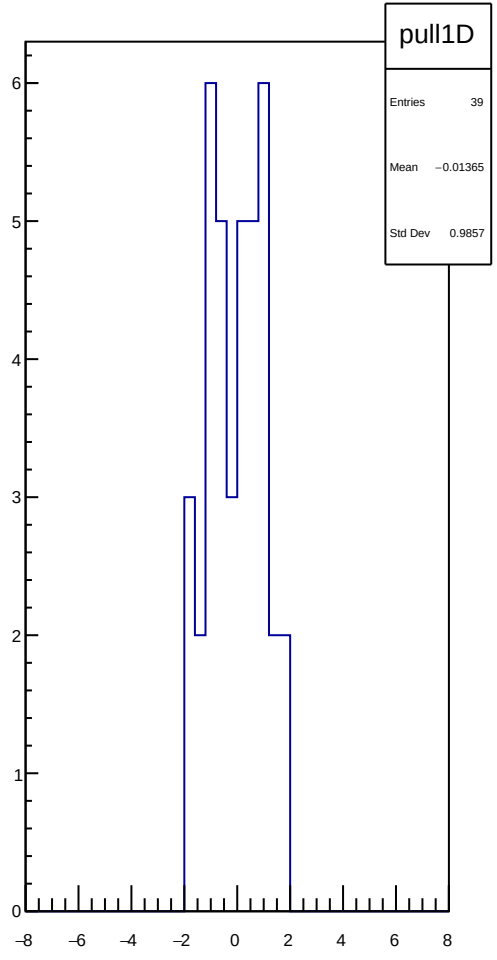

pull1D
Entries 39
Mean −0.02823
Std Dev 1.105

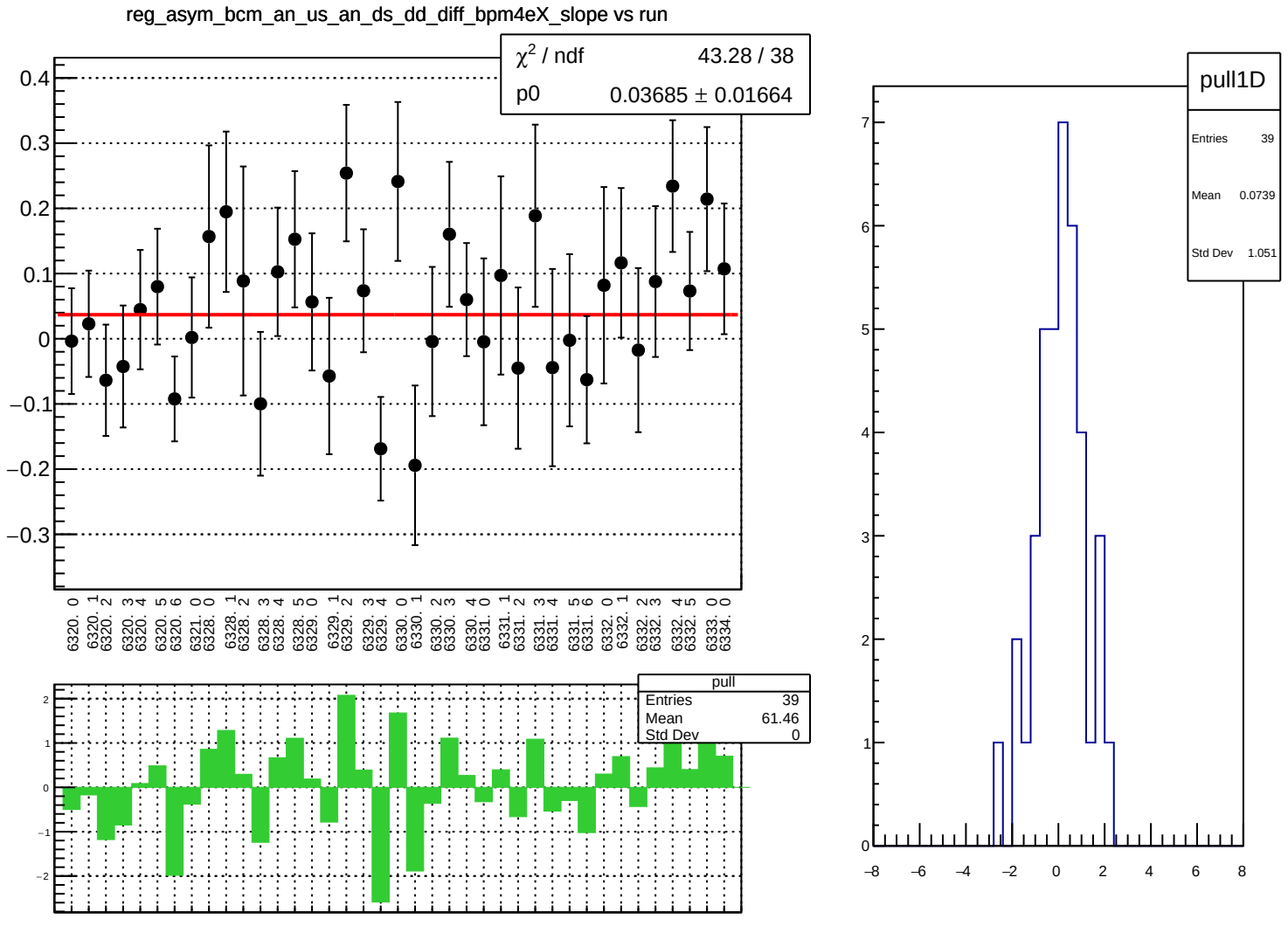

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 61.33 / 38
p0 0.1428 ± 0.01525
0.4
0.2
0
−0.2
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −39.28
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.07282
Std Dev 1.252
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

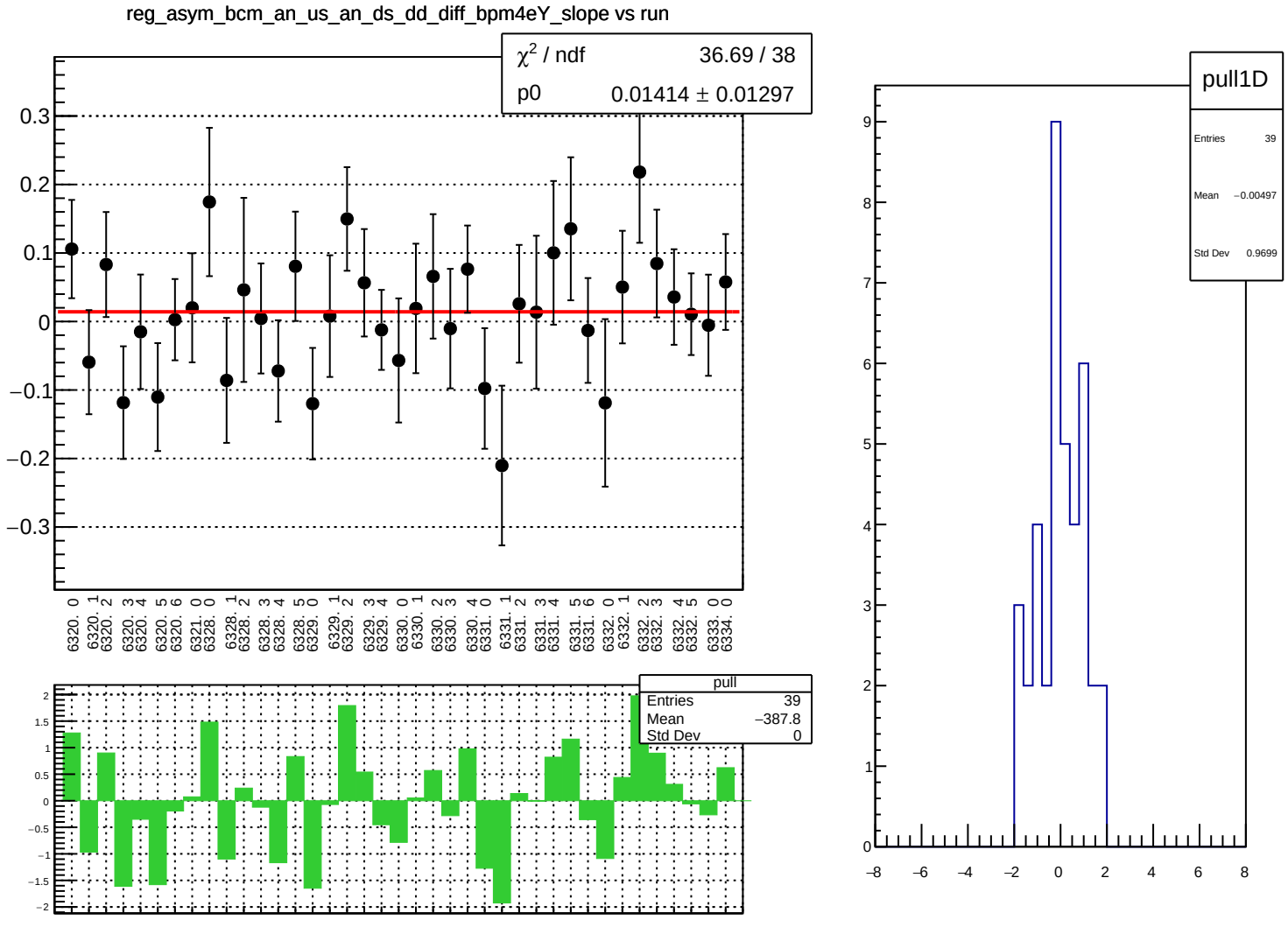

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 43.66 / 38
p0 −0.05313 ± 0.01592
pull
Entries 39
Mean 60.53
Std Dev 0

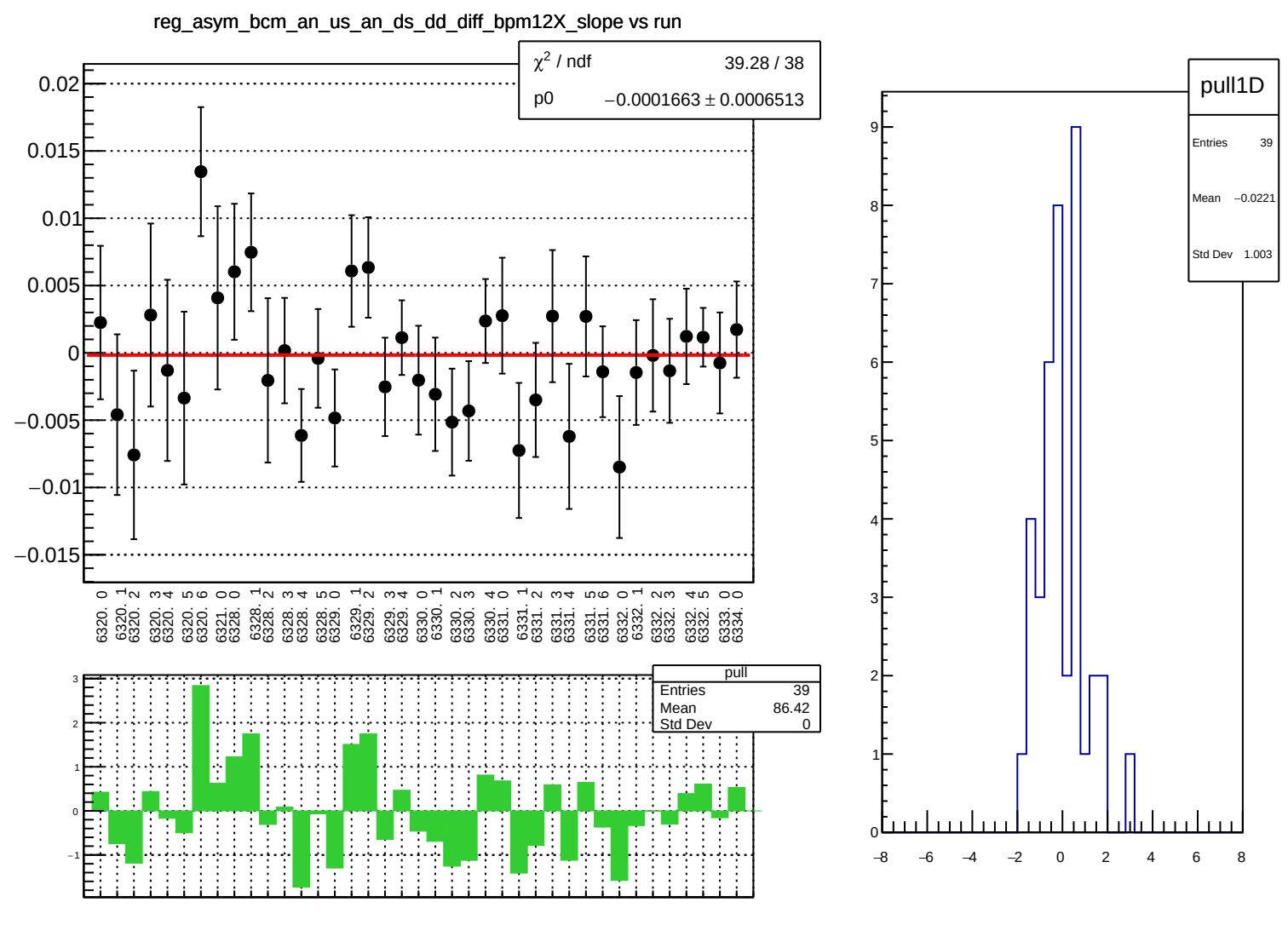

pull1D
Entries 39
Mean −0.07047
Std Dev 1.056

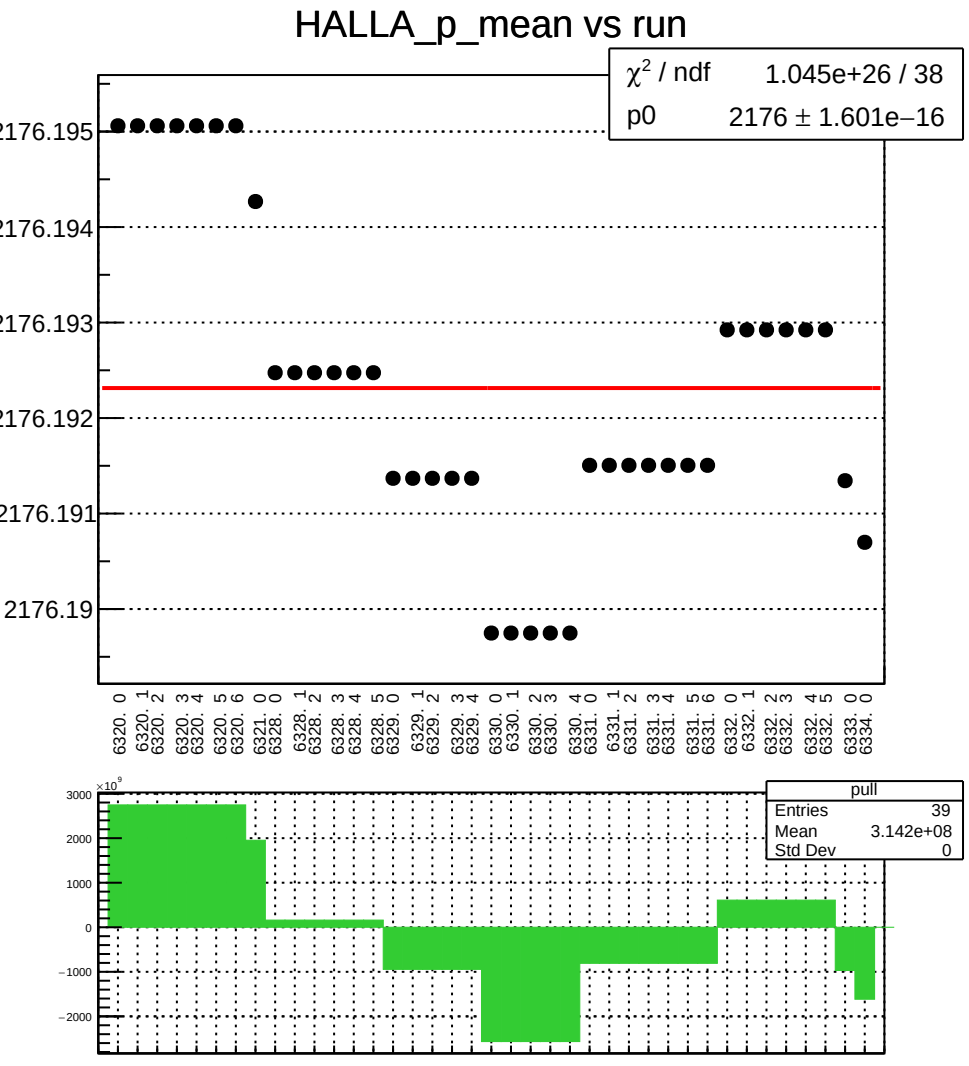

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.9 / 38
p0 −0.02759 ± 0.01158
pull
Entries 39
Mean 154.4
Std Dev 0

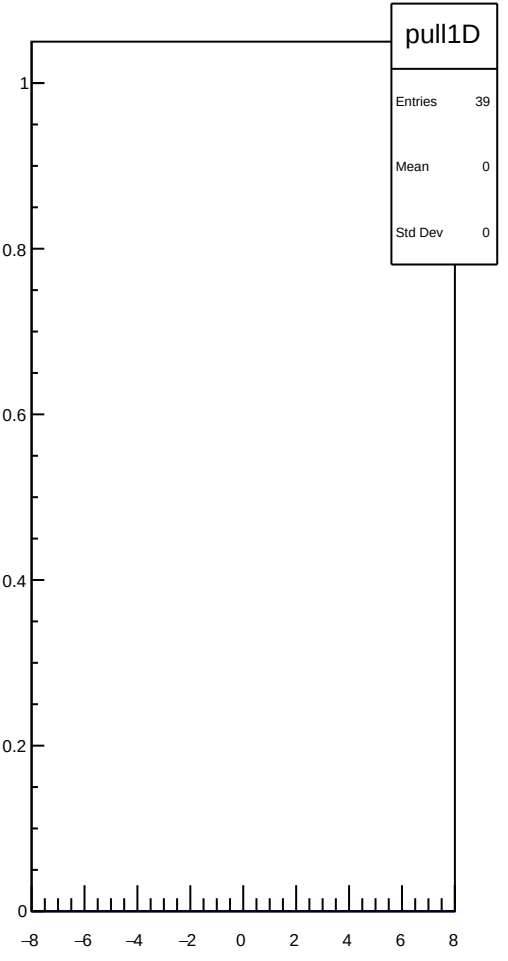

pull1D
Entries 39
Mean −0.01365
Std Dev 0.9857

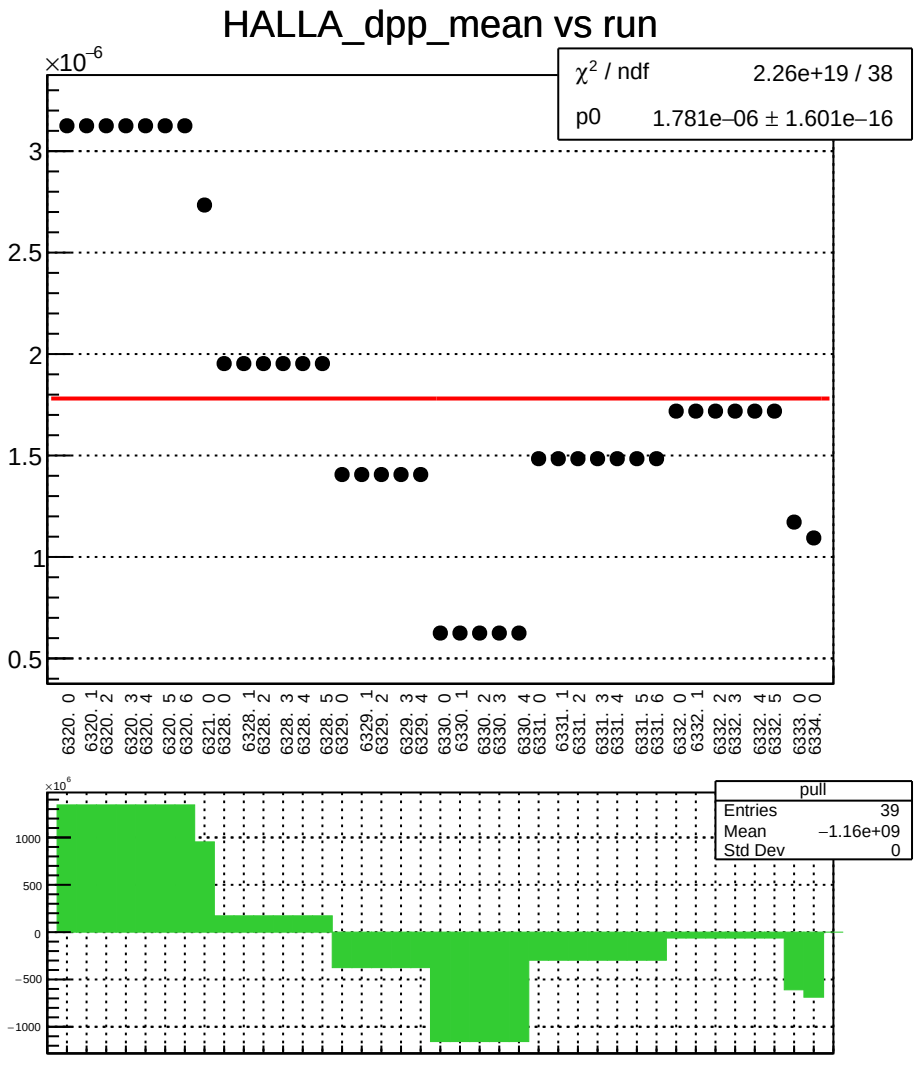

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.28 / 38
p0 0.03685 ± 0.01664
pull
Entries 39
Mean 61.46
Std Dev 0
pull1D
Entries 39
Mean 0.0739
Std Dev 1.051

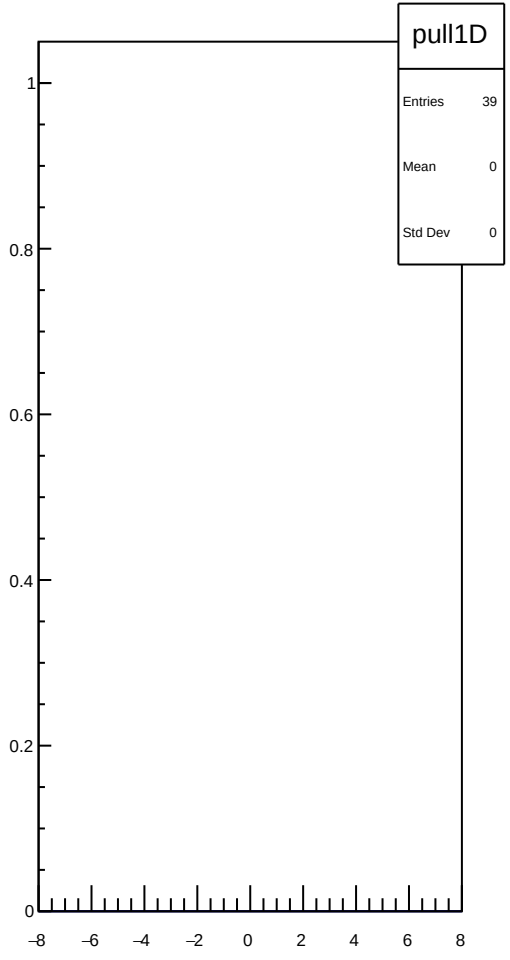

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.69 / 38
p0 0.01414 ± 0.01297
pull
Entries 39
Mean −387.8
Std Dev 0
pull1D
Entries 39
Mean −0.00497
Std Dev 0.9699

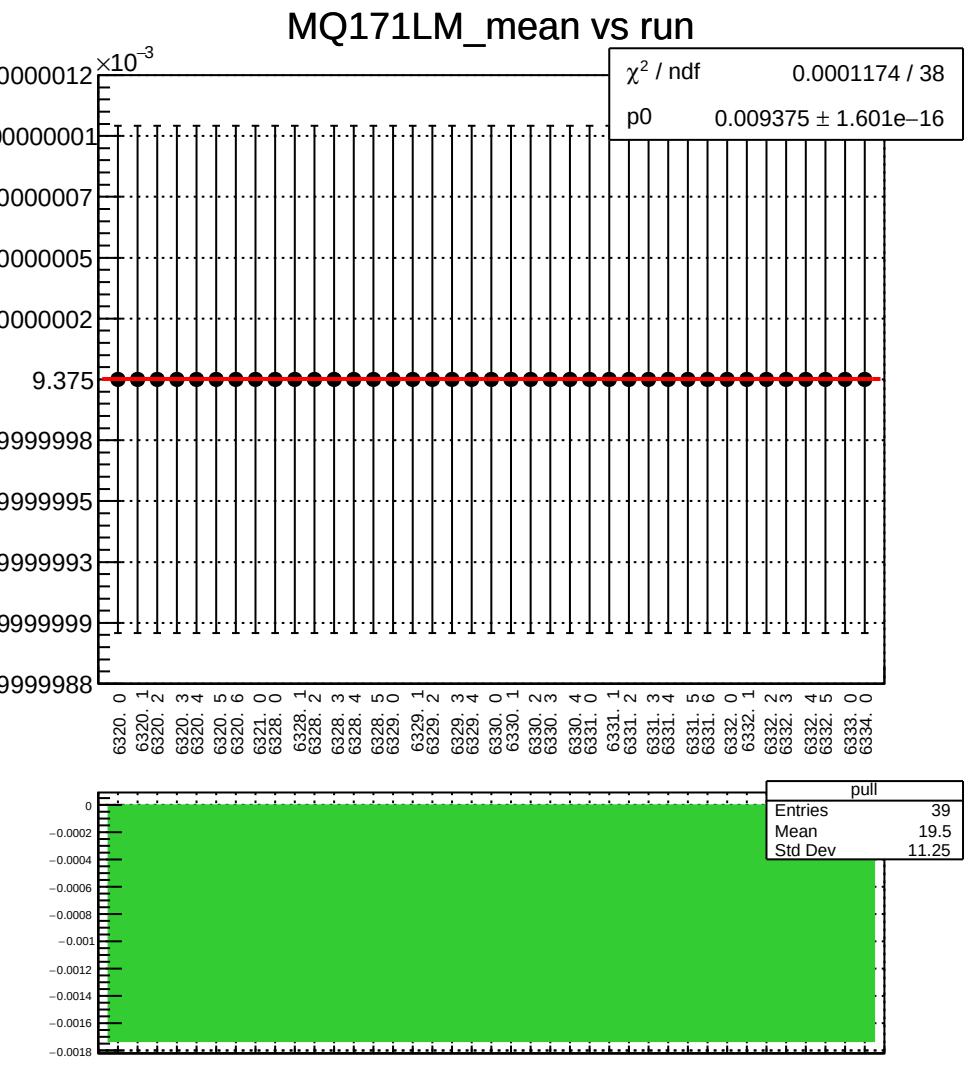

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 39.28 / 38
p0 −0.0001663 ± 0.0006513
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 86.42
Std Dev 0
3
2
1
0
−1
pull1D
Entries 39
Mean −0.0221
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

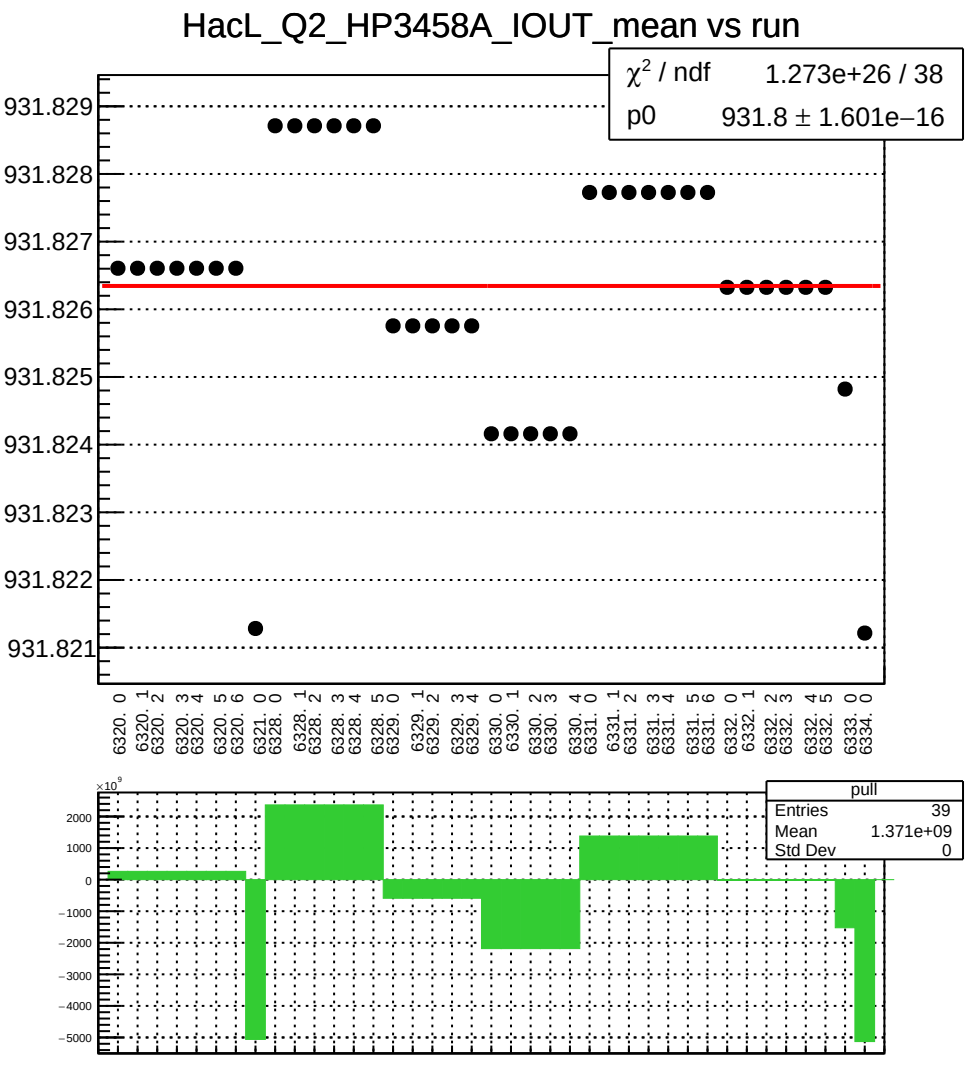

HALLA_p_mean vs run
χ² / ndf 1.045e+26 / 38
p0 2176 ± 1.601e−16
2176.195
2176.194
2176.193
2176.192
2176.191
2176.19
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 39
Mean 3.142e+08
Std Dev 0

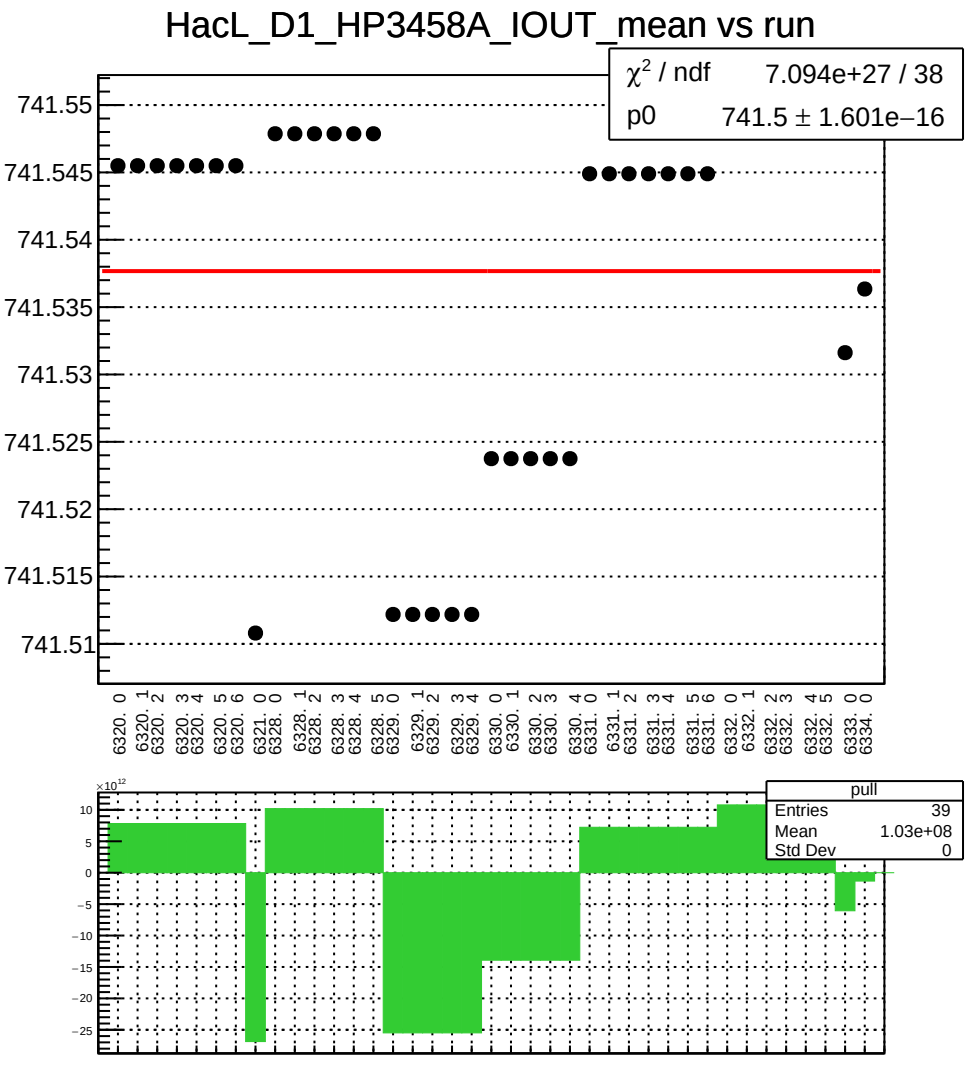

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

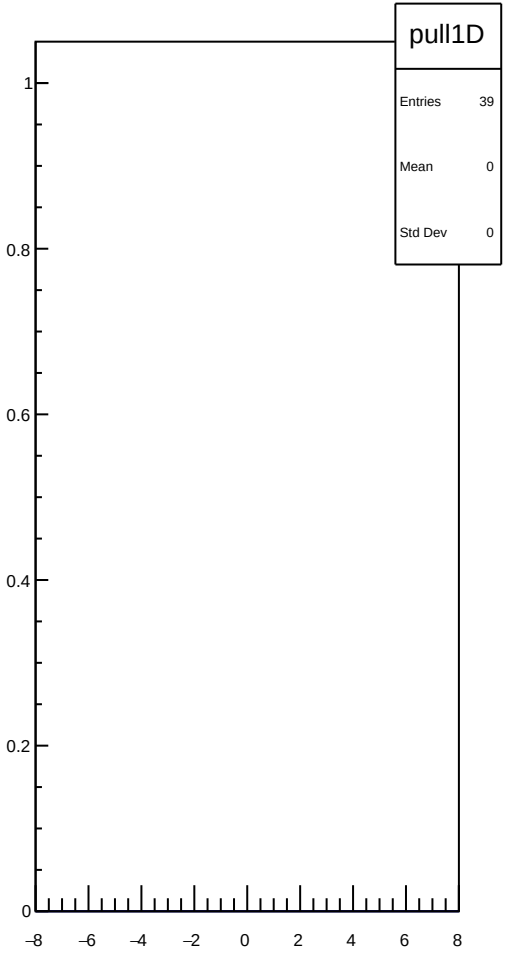

HALLA_dpp_mean vs run
χ² / ndf 2.26e+19 / 38
p0 1.781e−06 ± 1.601e−16
×10⁻⁶
3
2.5
2
1.5
1
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean −1.16e+09
Std Dev 0
×10⁶
1000
500
0
−500
−1000

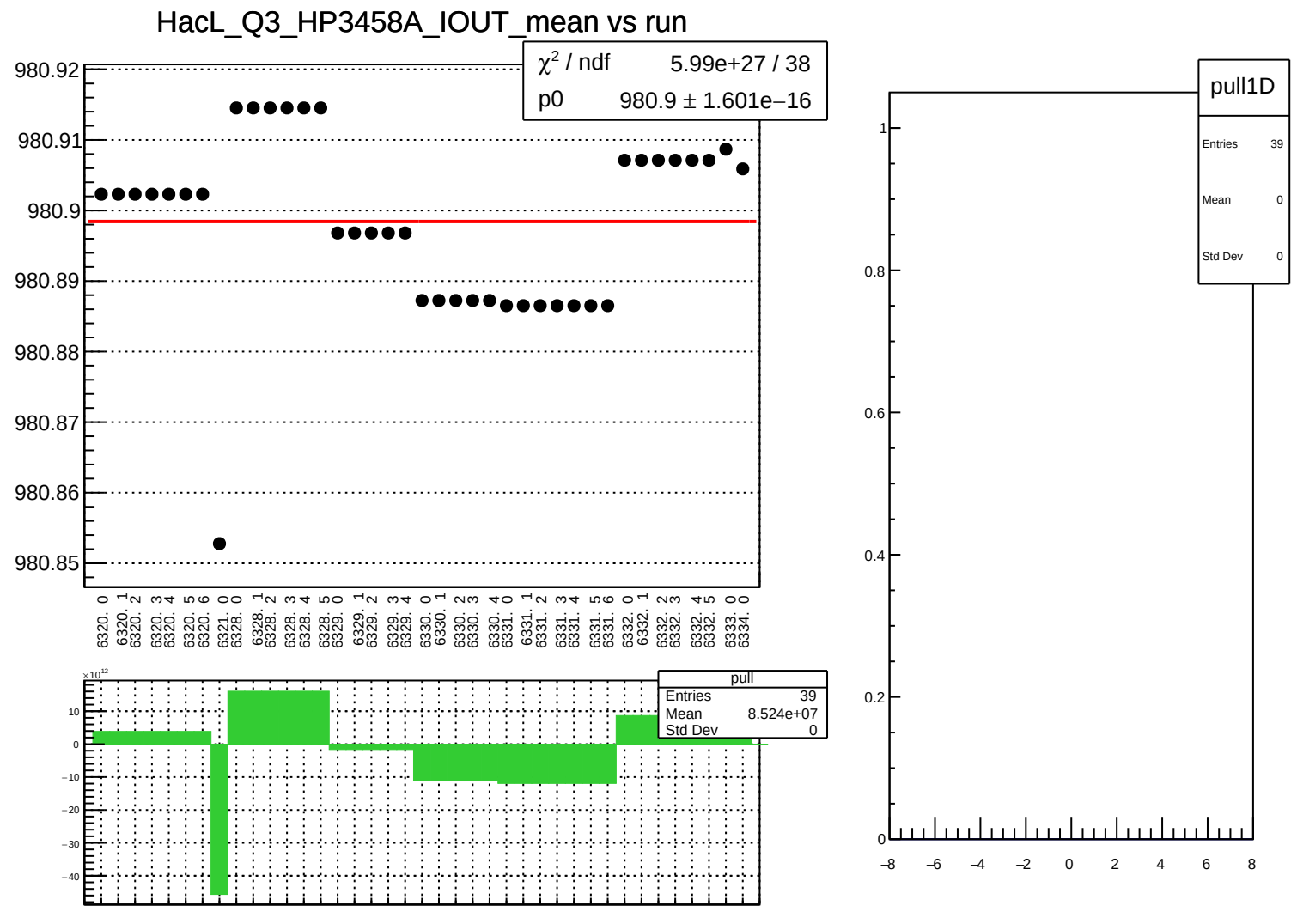

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

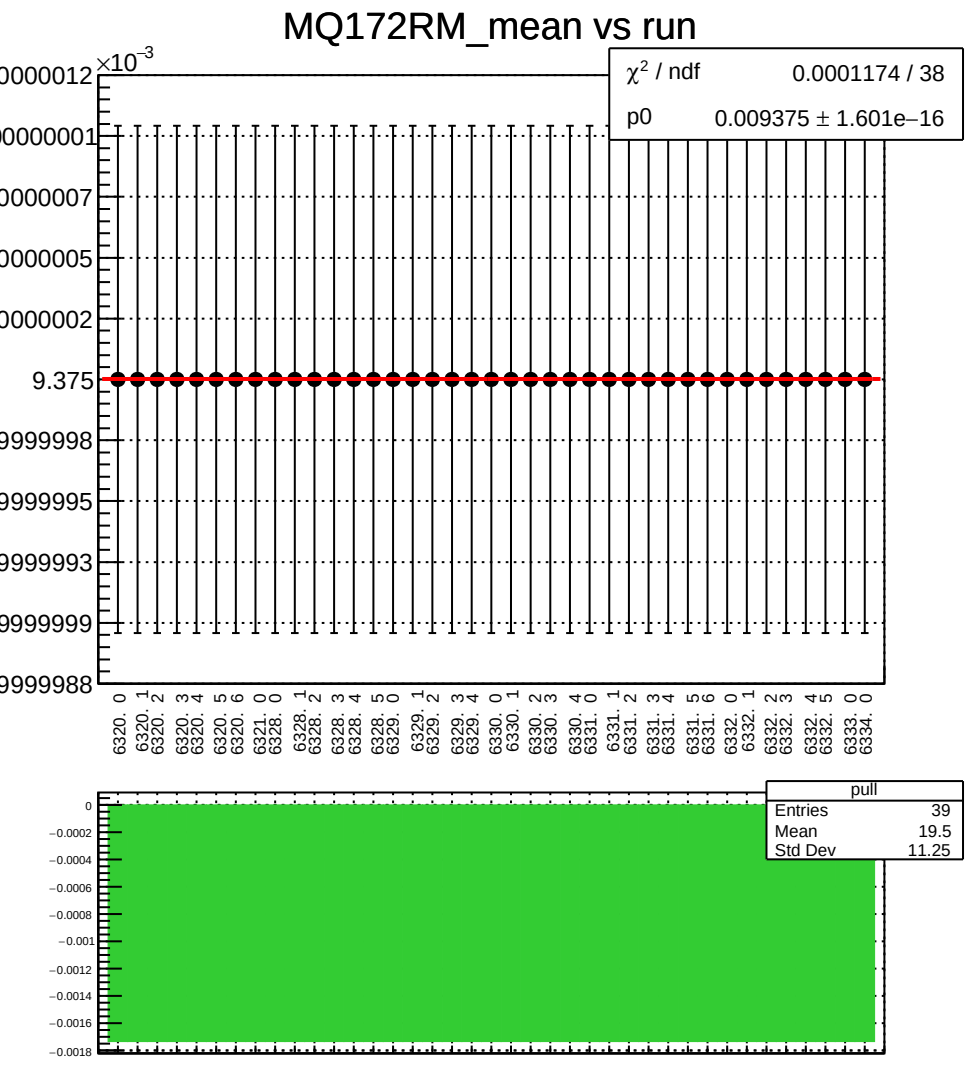

MQ171LM_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 39
Mean −0.001735
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

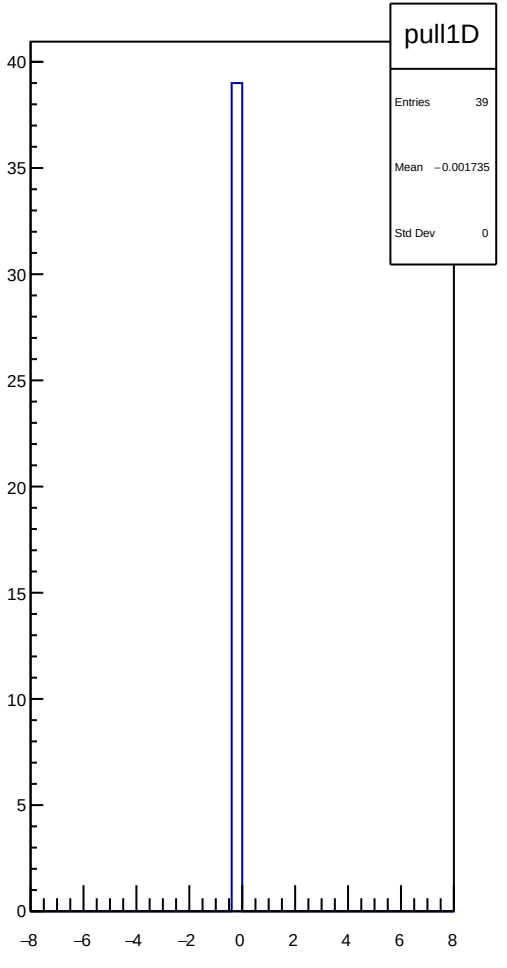

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.273e+26 / 38
p0 931.8 ± 1.601e−16
931.829
931.828
931.827
931.826
931.825
931.824
931.823
931.822
931.821
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 39
Mean 1.371e+09
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

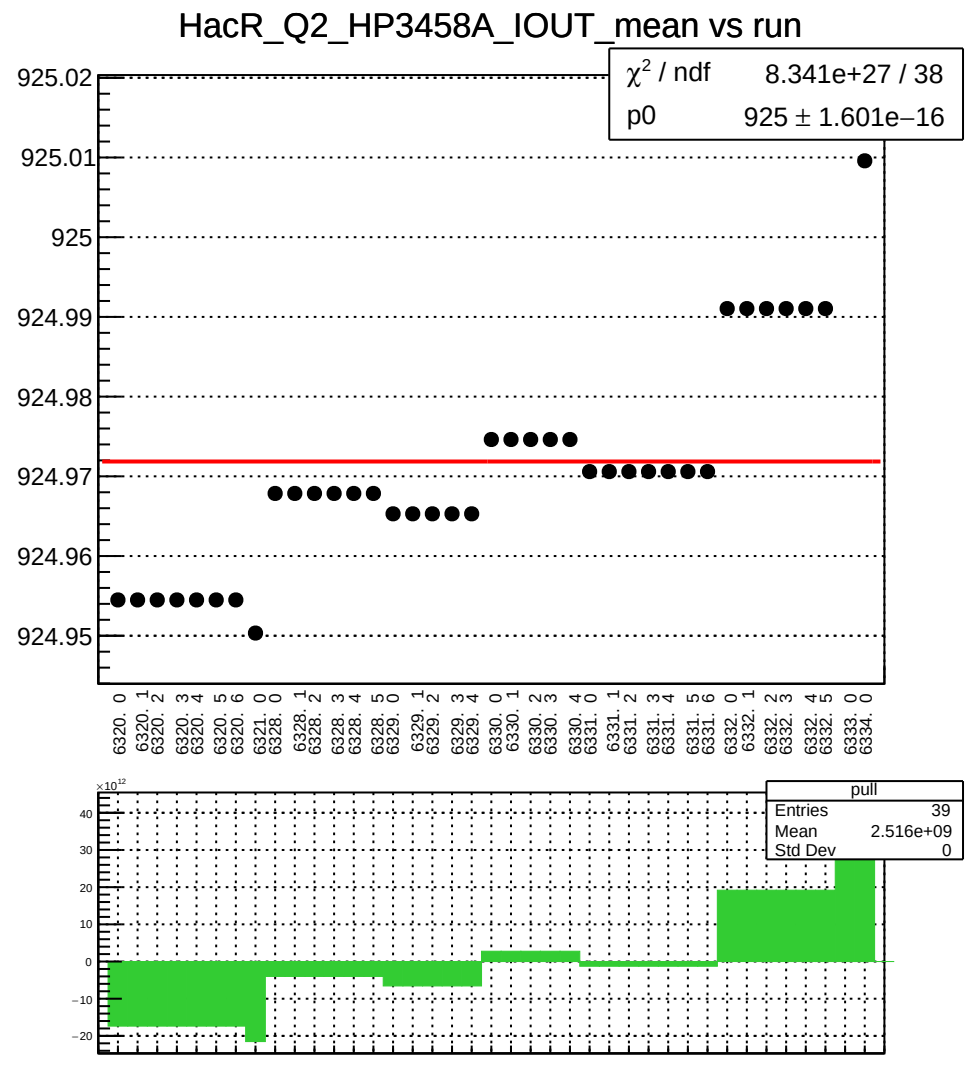

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.094e+27 / 38
p0 741.5 ± 1.601e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10¹²
10
5
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean 1.03e+08
Std Dev 0

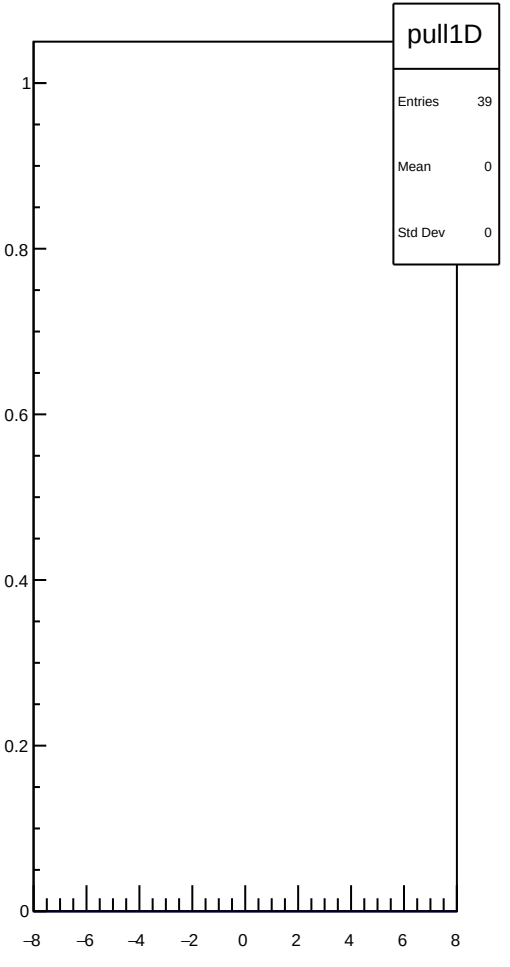

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

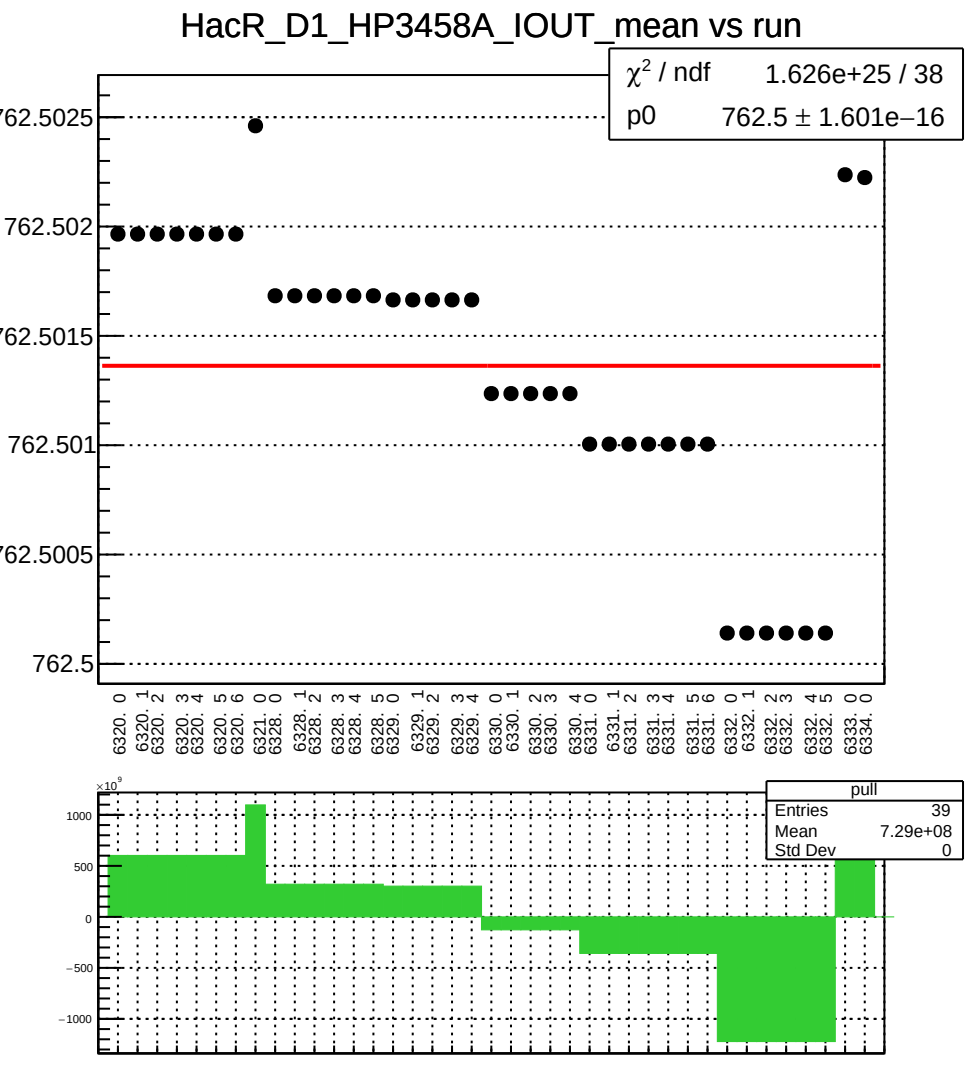

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.99e+27 / 38
p0 980.9 ± 1.601e−16
980.92
980.91
980.9
980.89
980.88
980.87
980.86
980.85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 8.524e+07
Std Dev 0
×10¹²
10
0
−10
−20
−30
−40
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

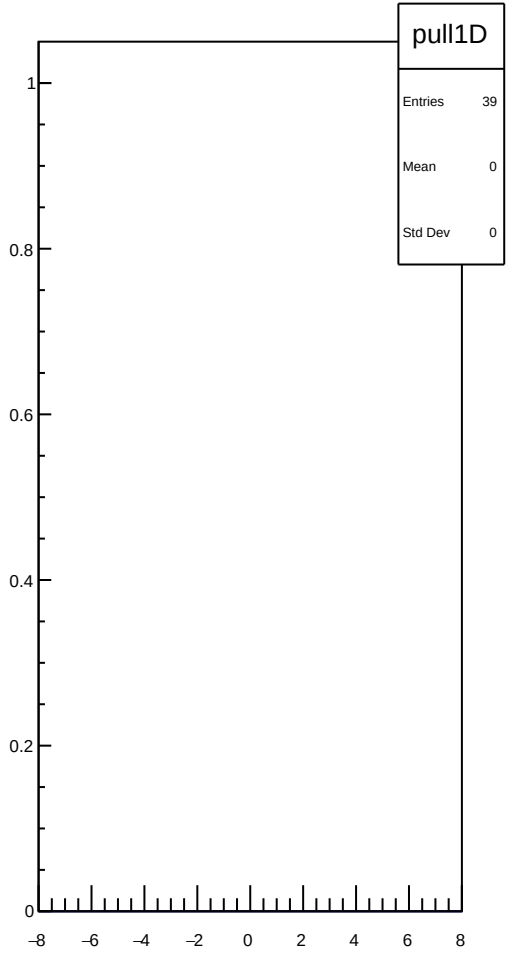

MQ172RM_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
9.375
pull
Entries 39
Mean 19.5
Std Dev 11.25

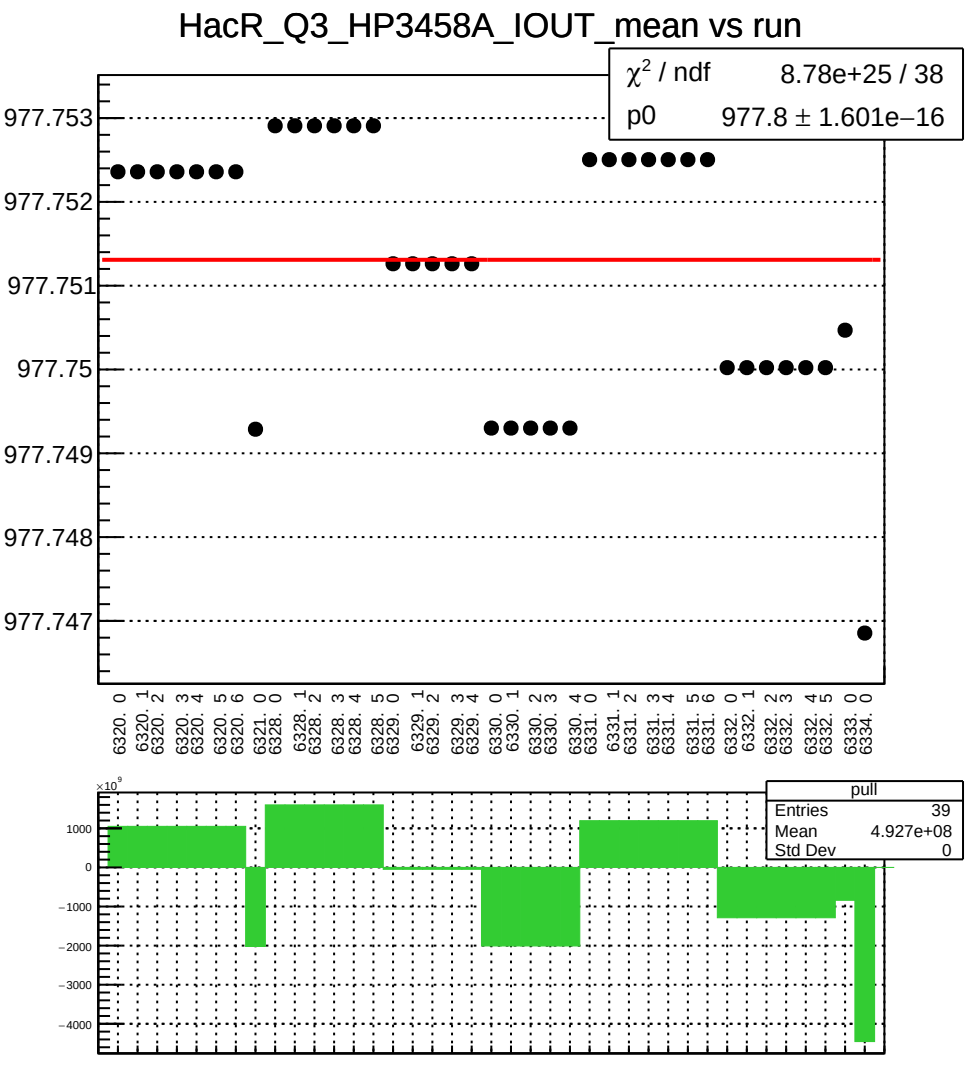

pull1D
Entries 39
Mean −0.001735
Std Dev 0

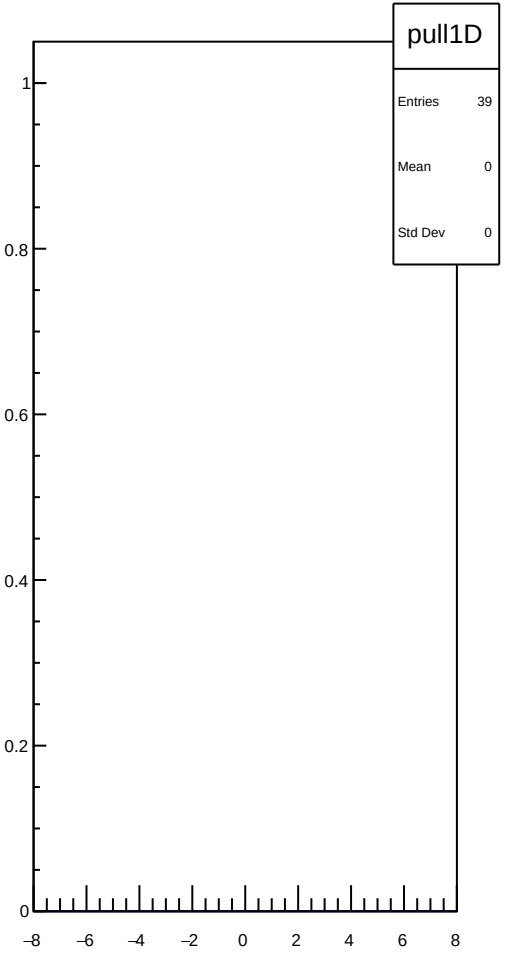

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.341e+27 / 38
p0 925 ± 1.601e−16
925.02
925.01
925
924.99
924.98
924.97
924.96
924.95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10¹²
40
30
20
10
0
−10
−20
pull
Entries 39
Mean 2.516e+09
Std Dev 0

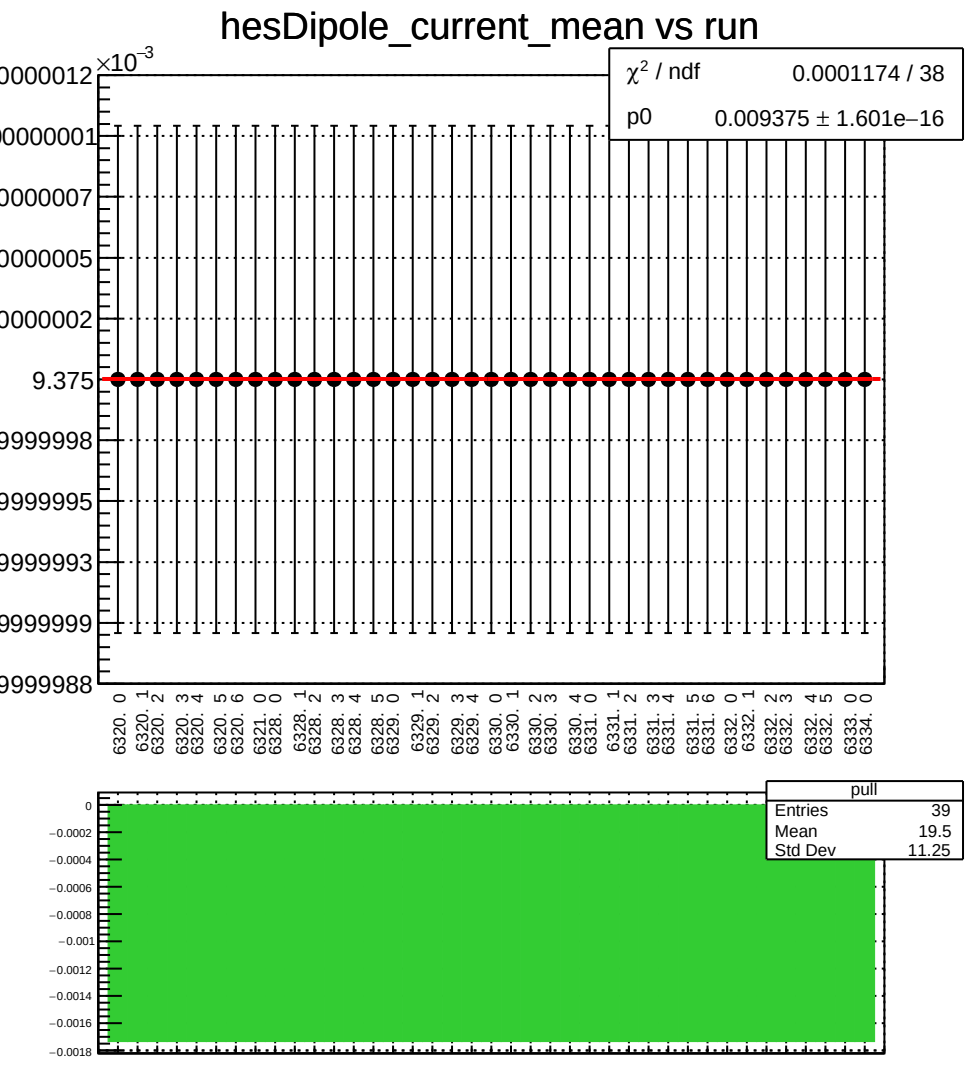

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

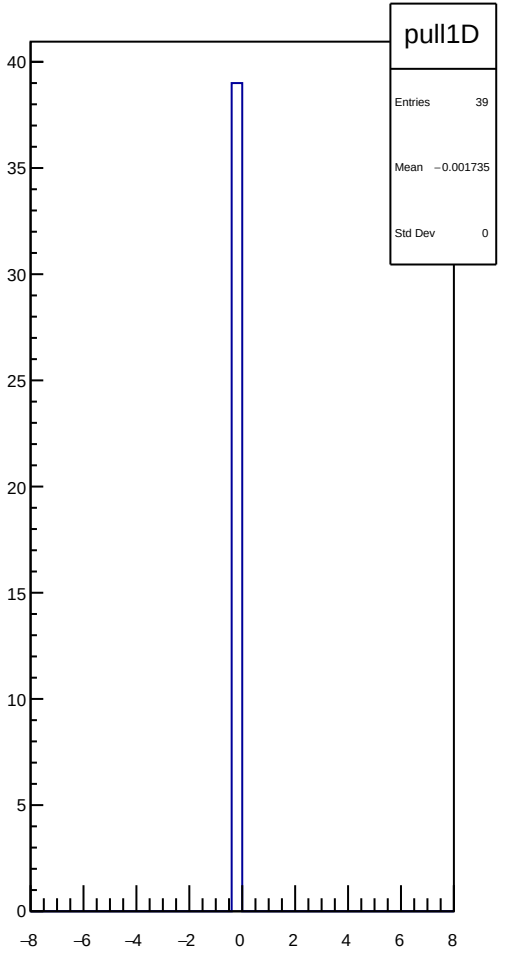

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.626e+25 / 38
p0 762.5 ± 1.601e−16
762.5025
762.502
762.5015
762.501
762.5005
762.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10⁹
1000
500
0
−500
−1000
pull
Entries 39
Mean 7.29e+08
Std Dev 0

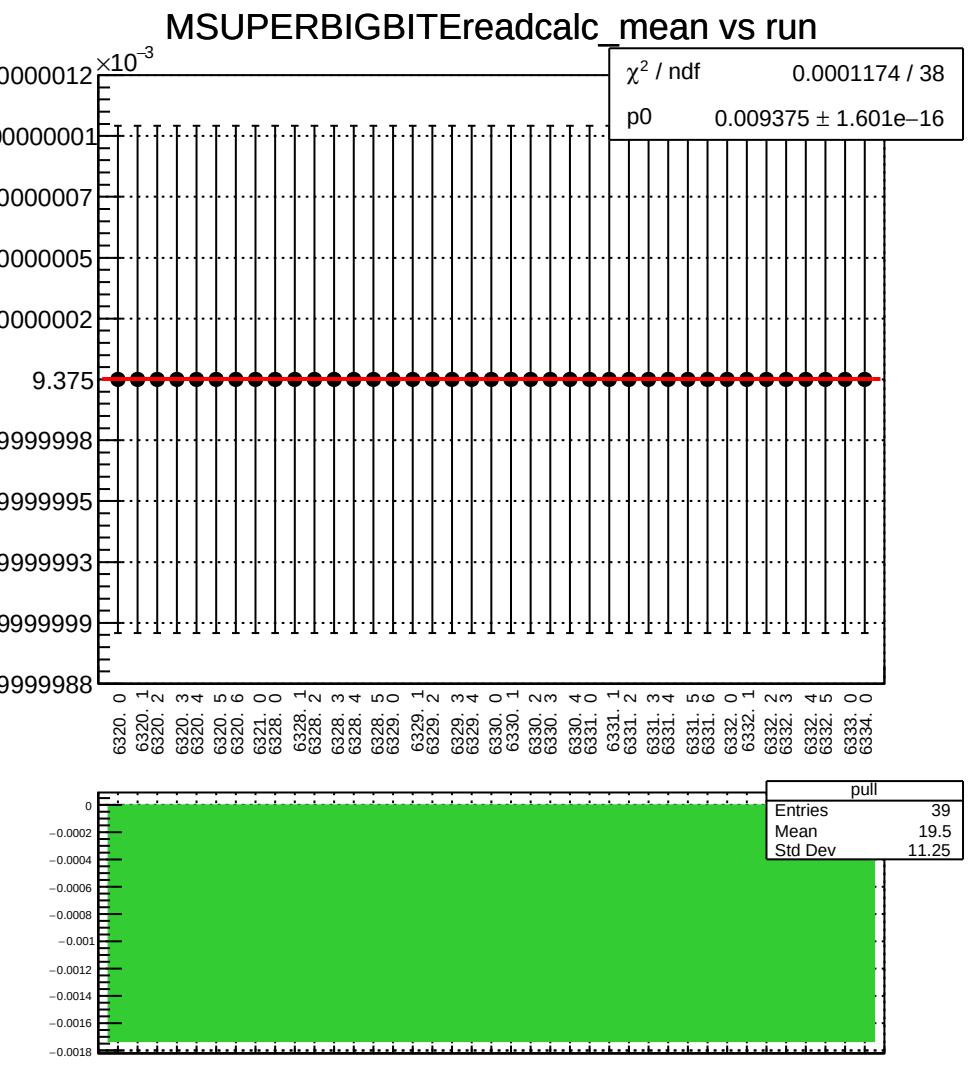

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

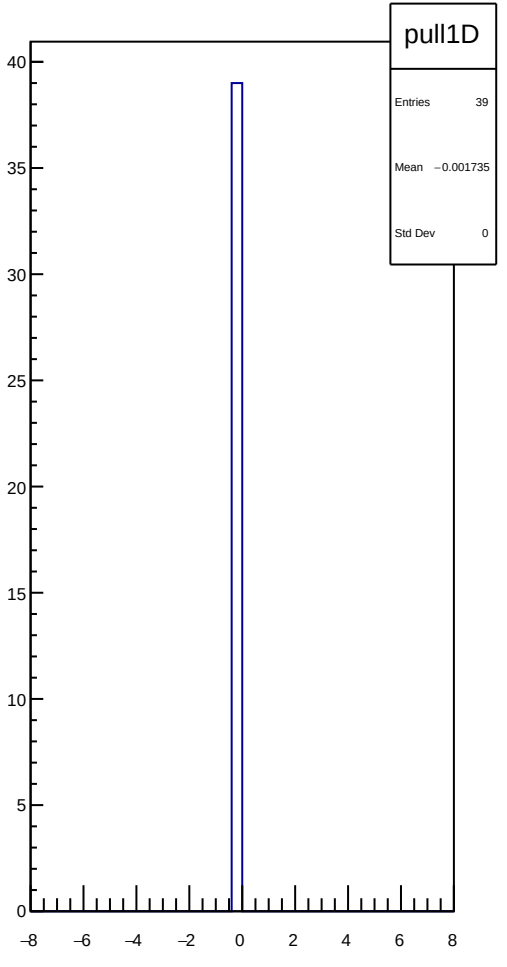

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 8.78e+25 / 38
p0 977.8 ± 1.601e−16
977.753
977.752
977.751
977.75
977.749
977.748
977.747
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10⁹
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 4.927e+08
Std Dev 0

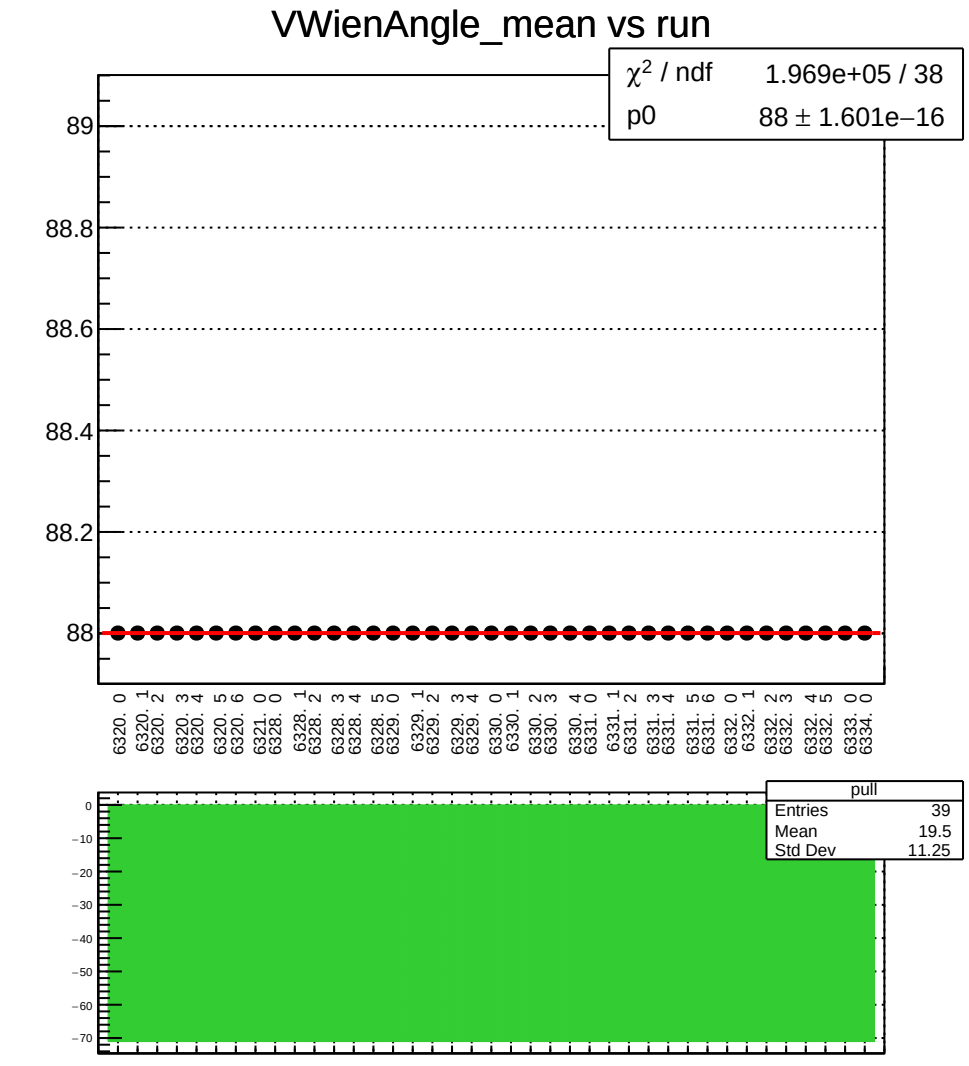

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

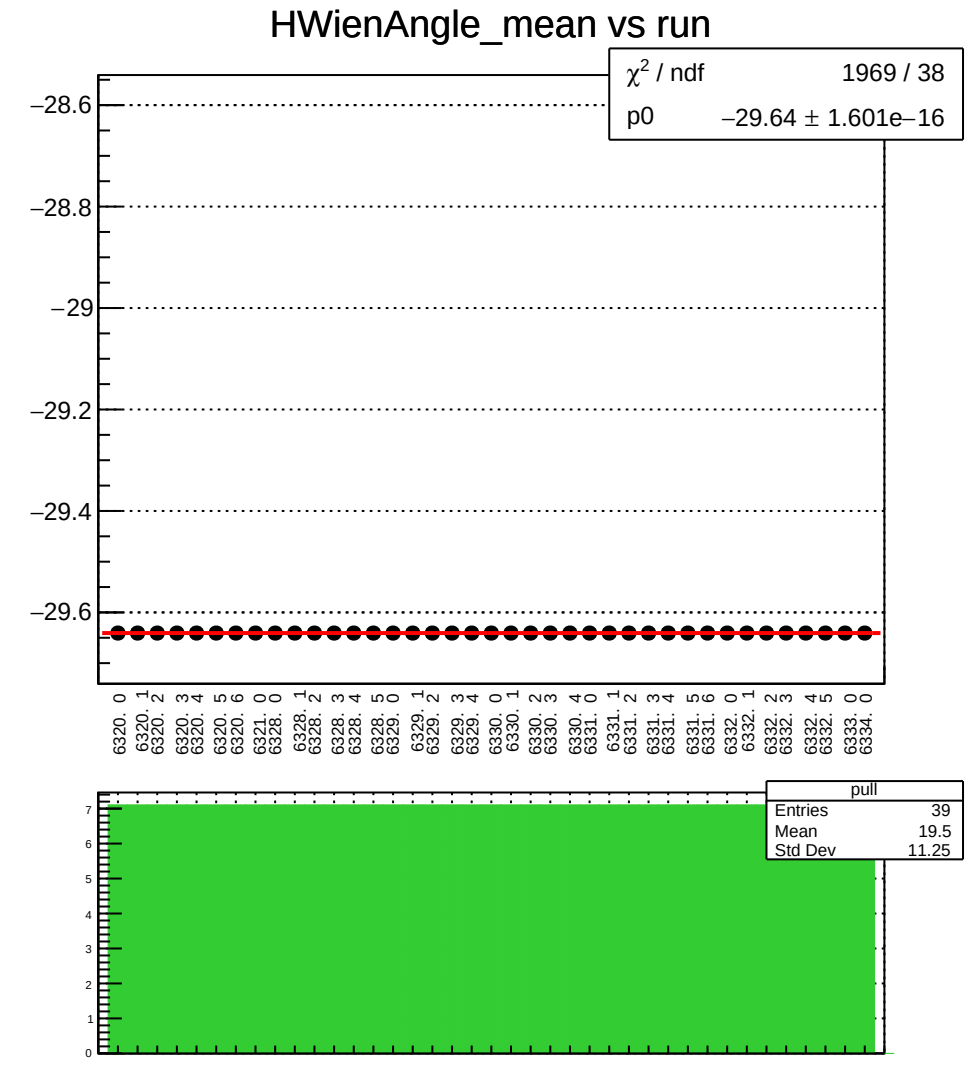

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
9.375
pull
Entries 39
Mean 19.5
Std Dev 11.25

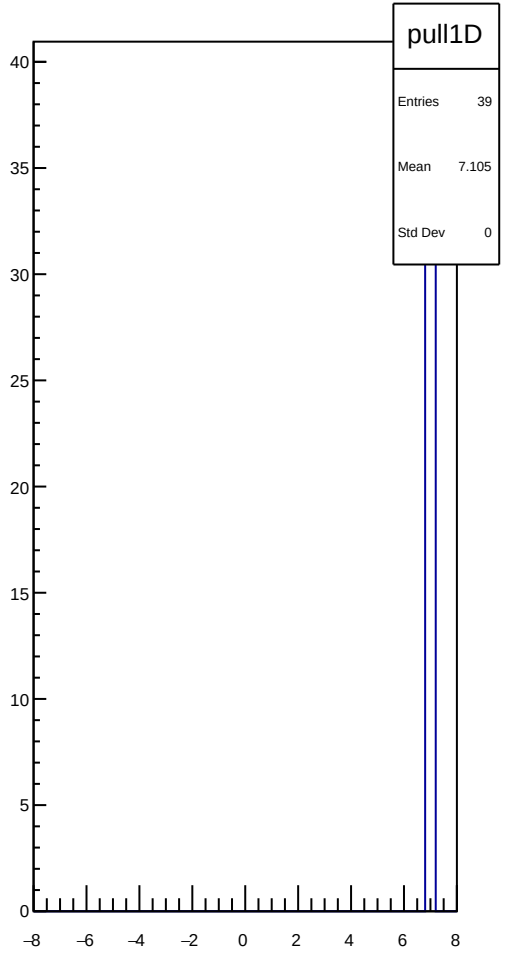

pull1D
Entries 39
Mean −0.001735
Std Dev 0

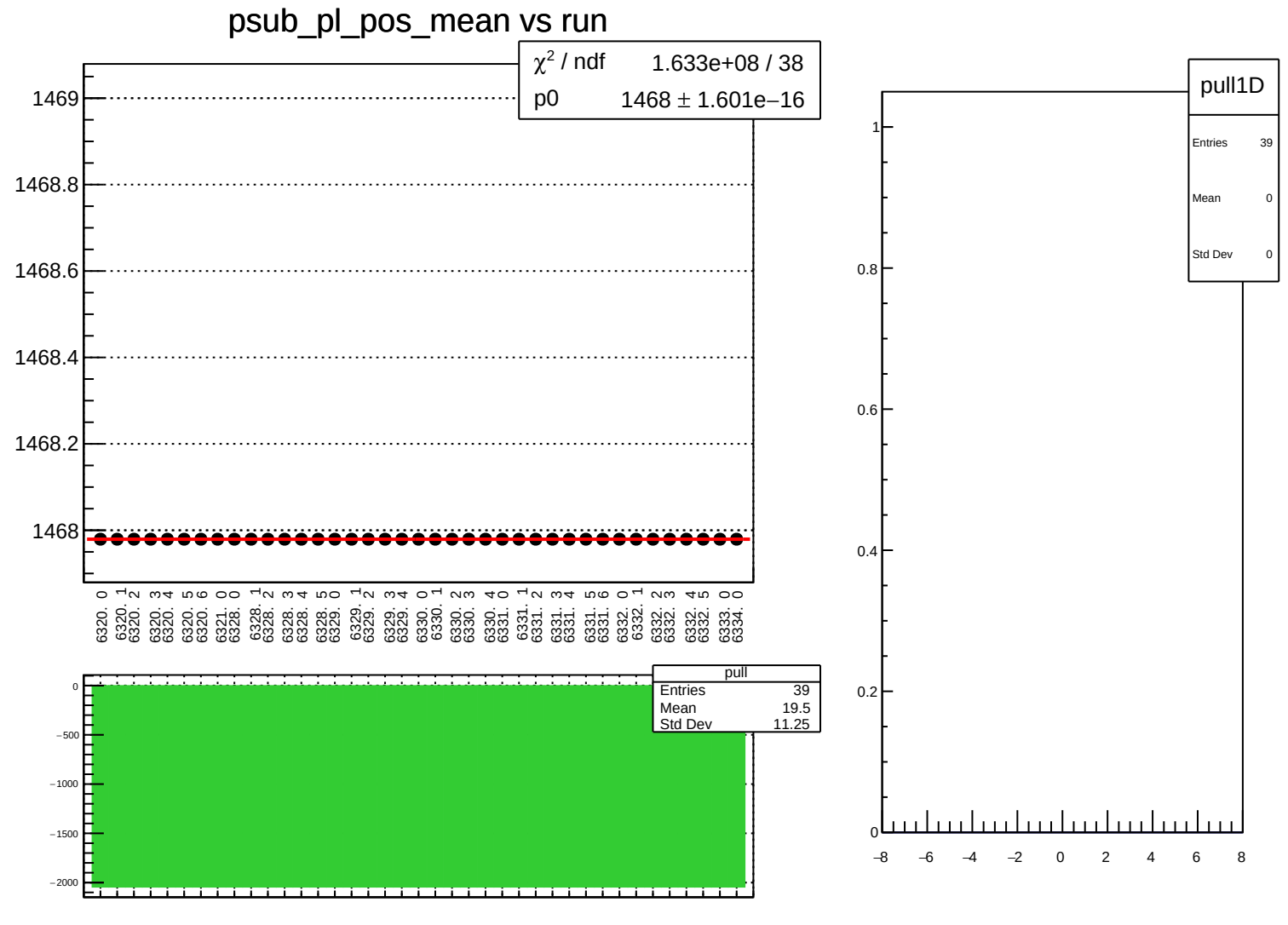

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

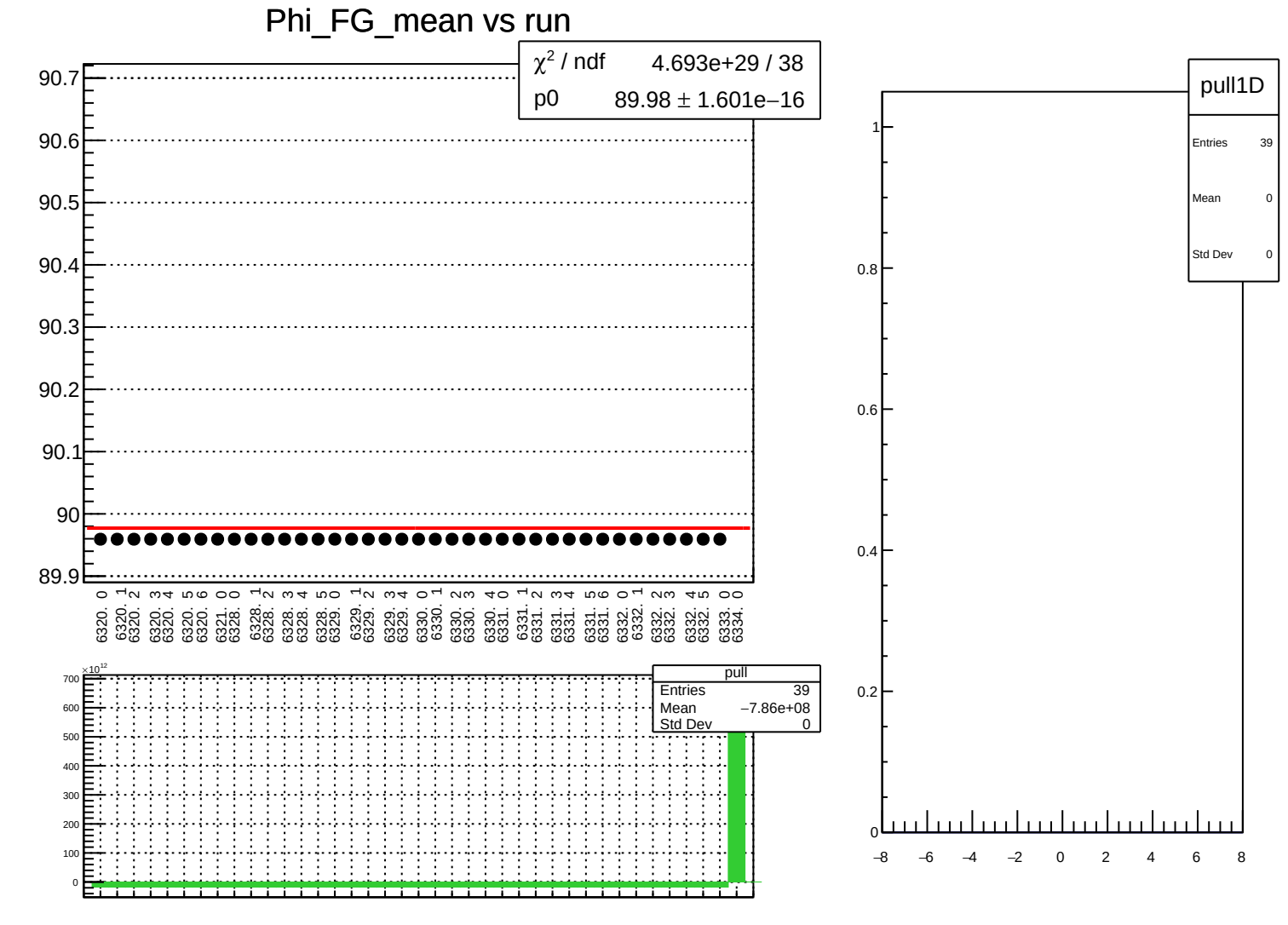

pull1D
Entries 39
Mean −0.001735
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

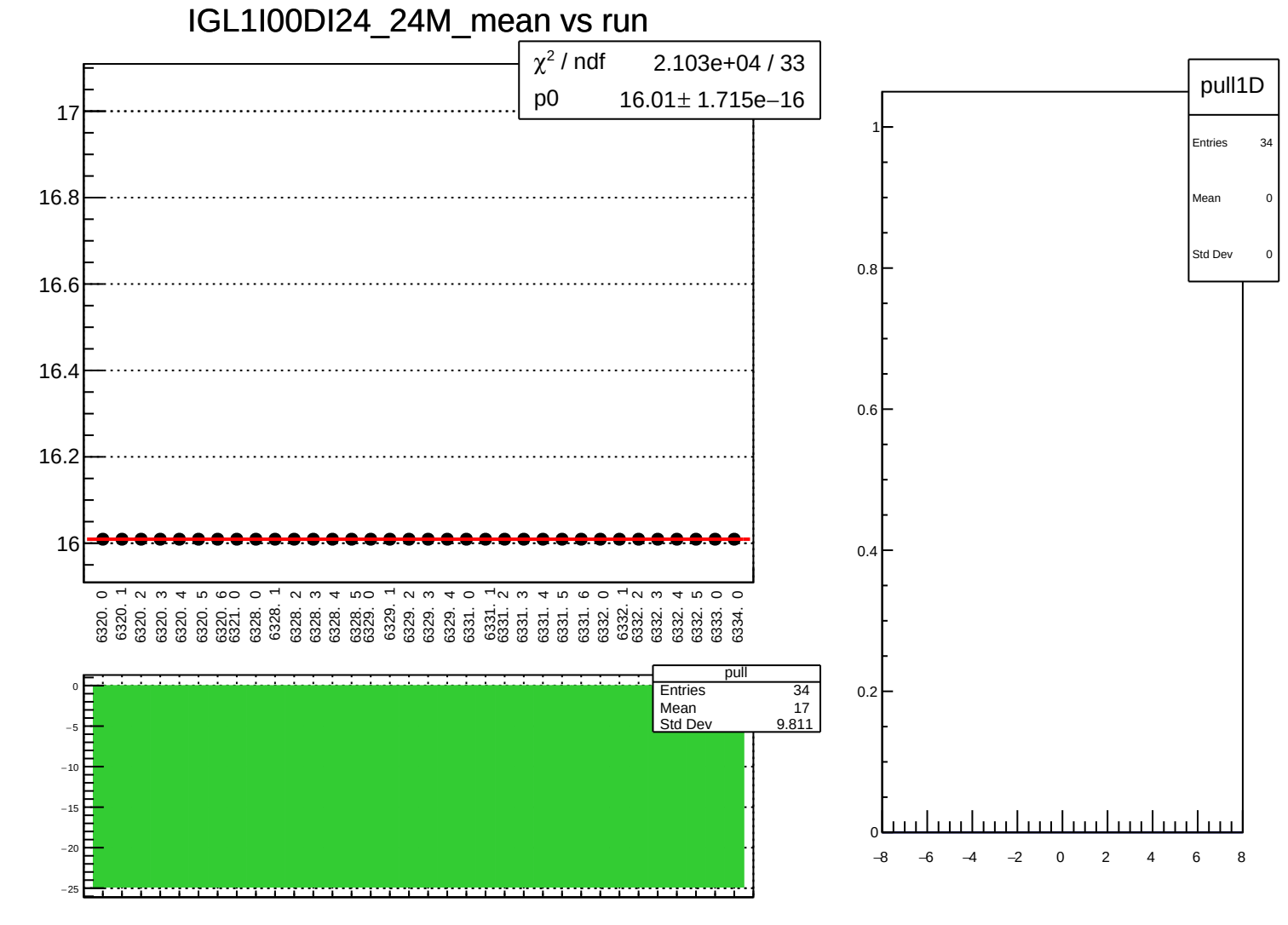

VWienAngle_mean vs run
χ² / ndf 1.969e+05 / 38
p0 88 ± 1.601e−16
89
88.8
88.6
88.4
88.2
88
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

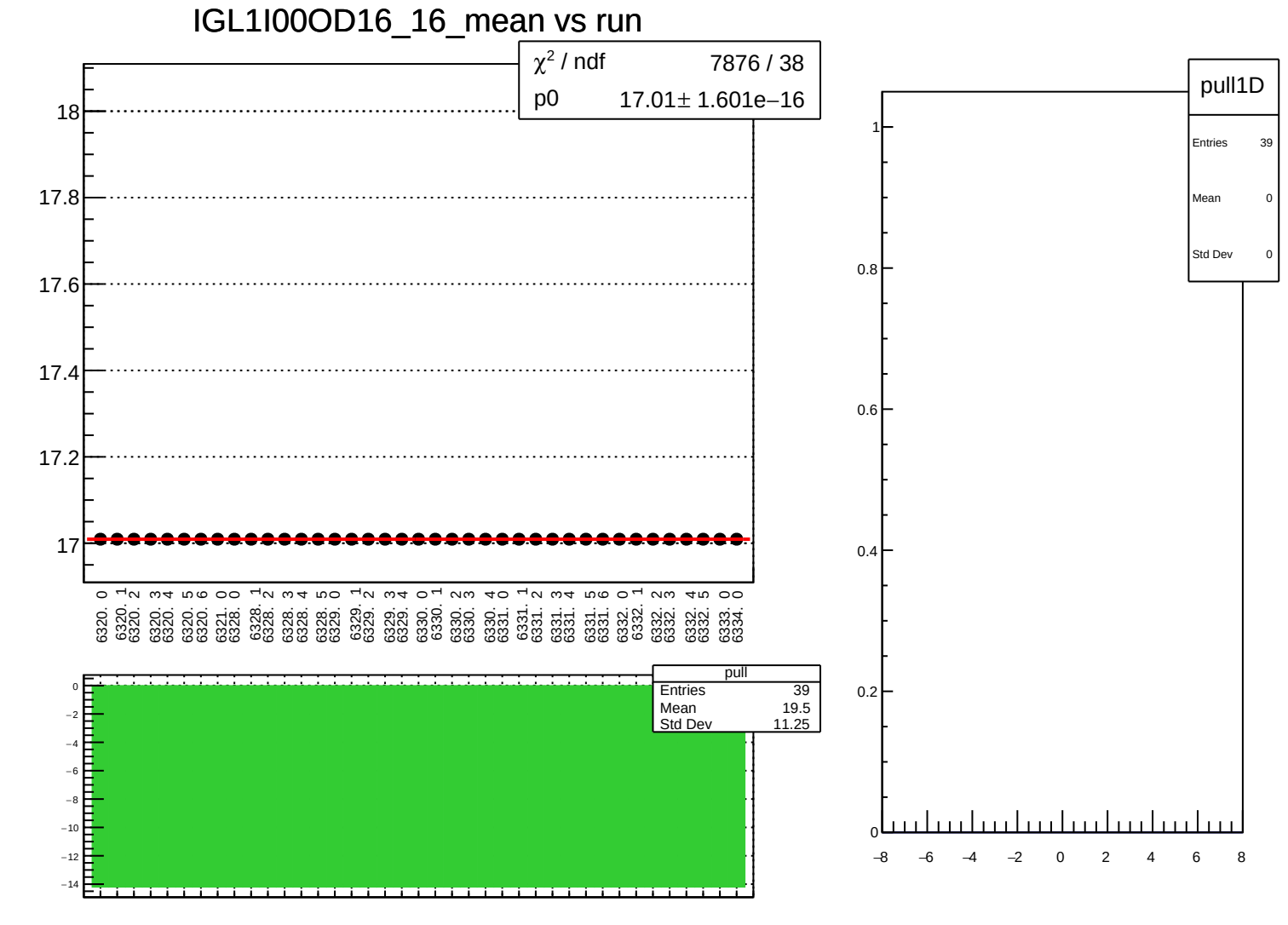

HWienAngle_mean vs run
χ² / ndf 1969 / 38
p0 −29.64 ± 1.601e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
1
2
3
4
5
6
7

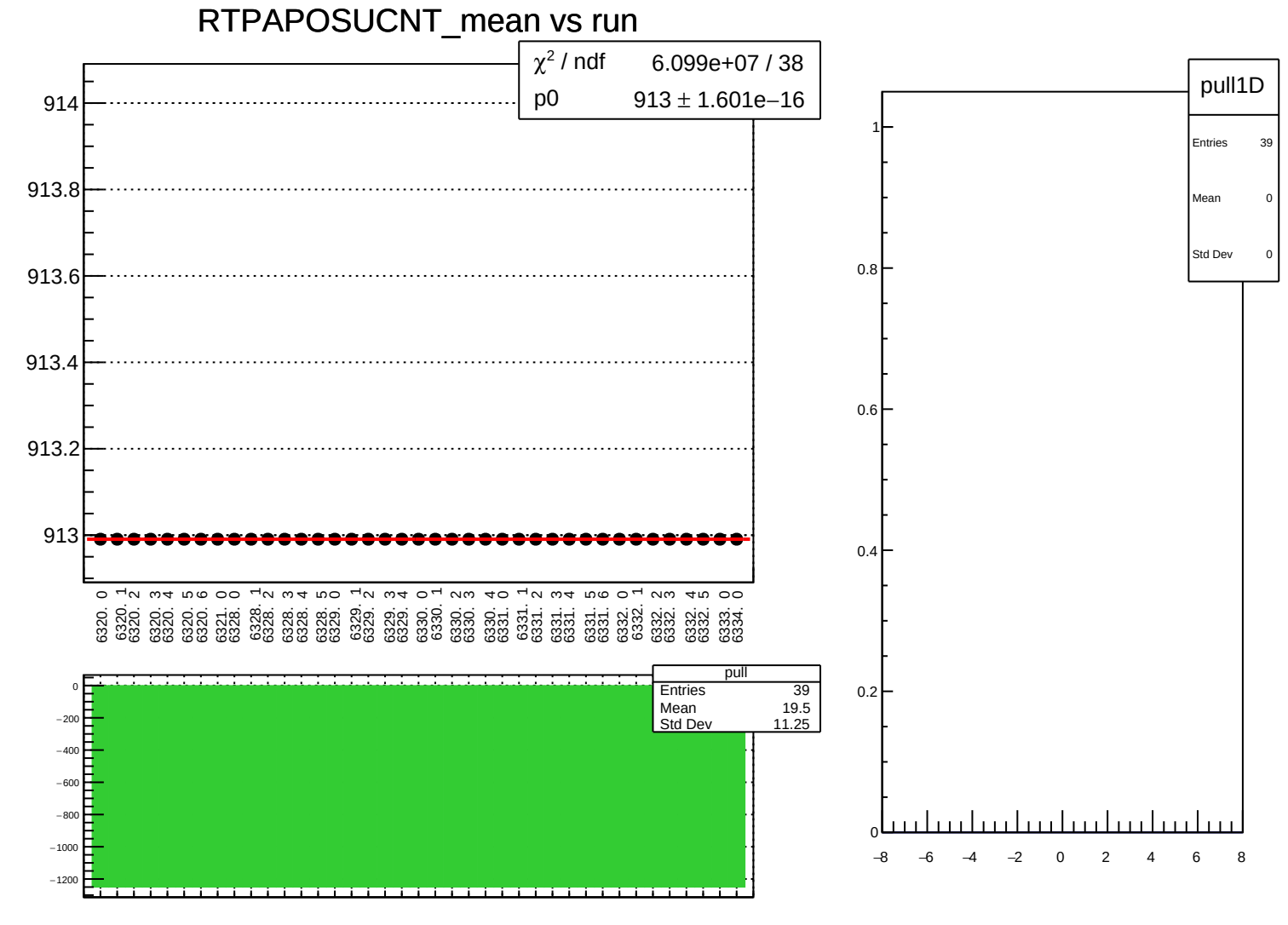

pull1D
Entries 39
Mean 7.105
Std Dev 0
0
5
10
15
20
25
30
35
40
−8
−6
−4
−2
0
2
4
6
8

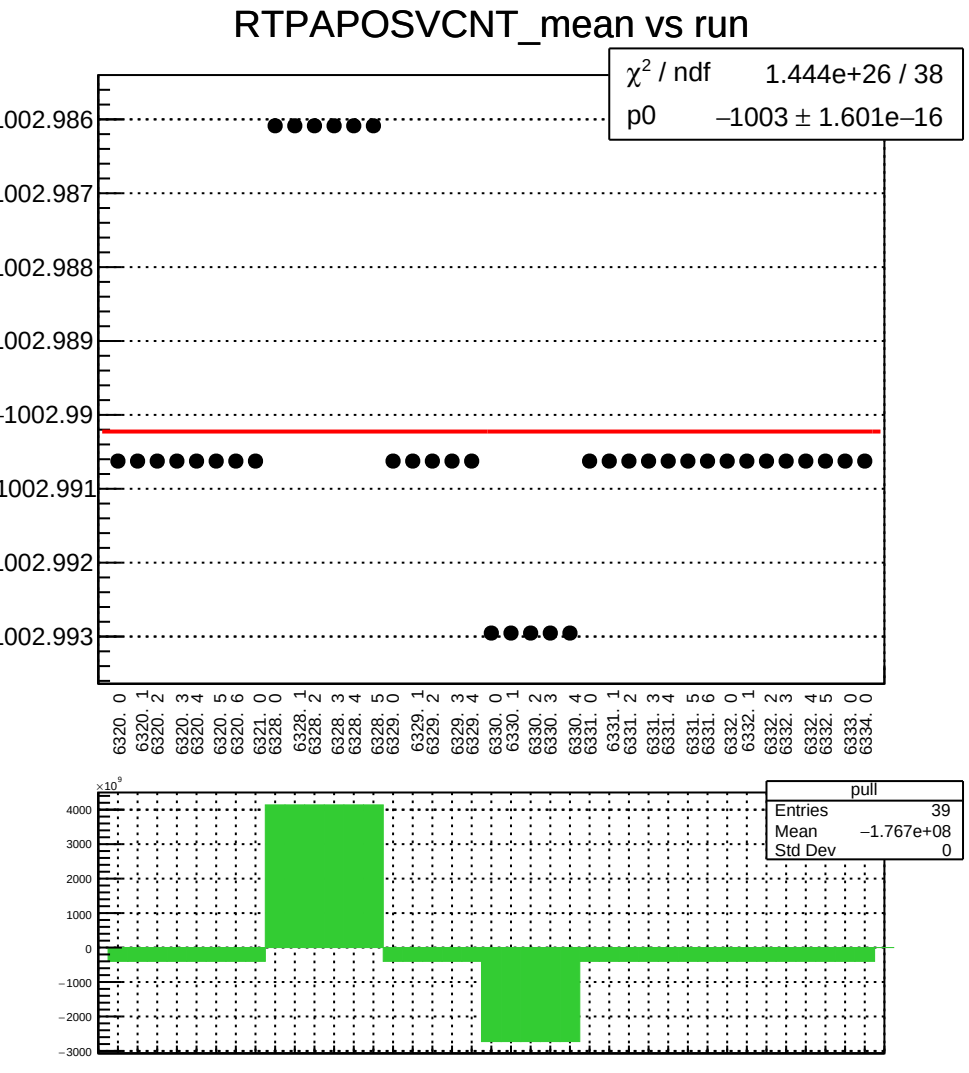

psub_pl_pos_mean vs run
χ² / ndf 1.633e+08 / 38
p0 1468 ± 1.601e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−500
−1000
−1500
−2000
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

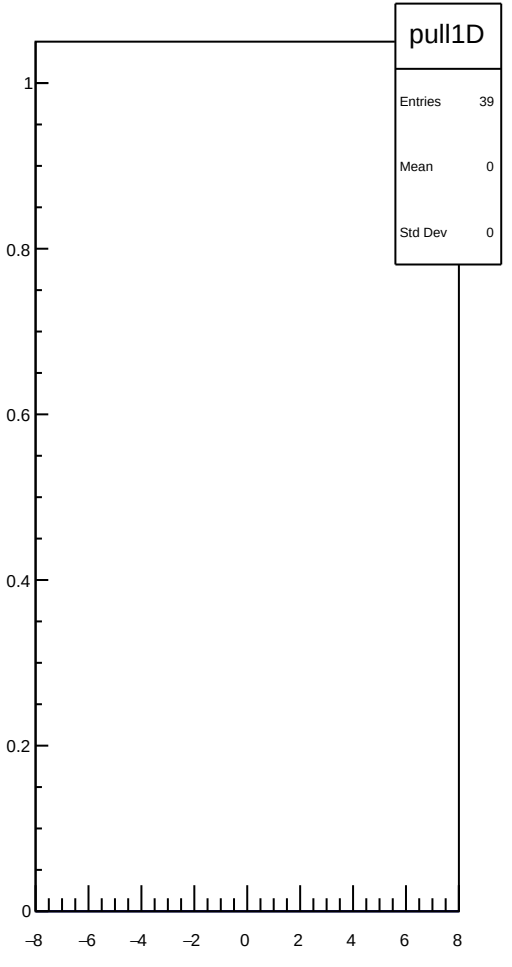

Phi_FG_mean vs run
χ² / ndf 4.693e+29 / 38
p0 89.98 ± 1.601e−16
90.7
90.6
90.5
90.4
90.3
90.2
90.1
90
89.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10¹²
700
600
500
400
300
200
100
0
pull
Entries 39
Mean −7.86e+08
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

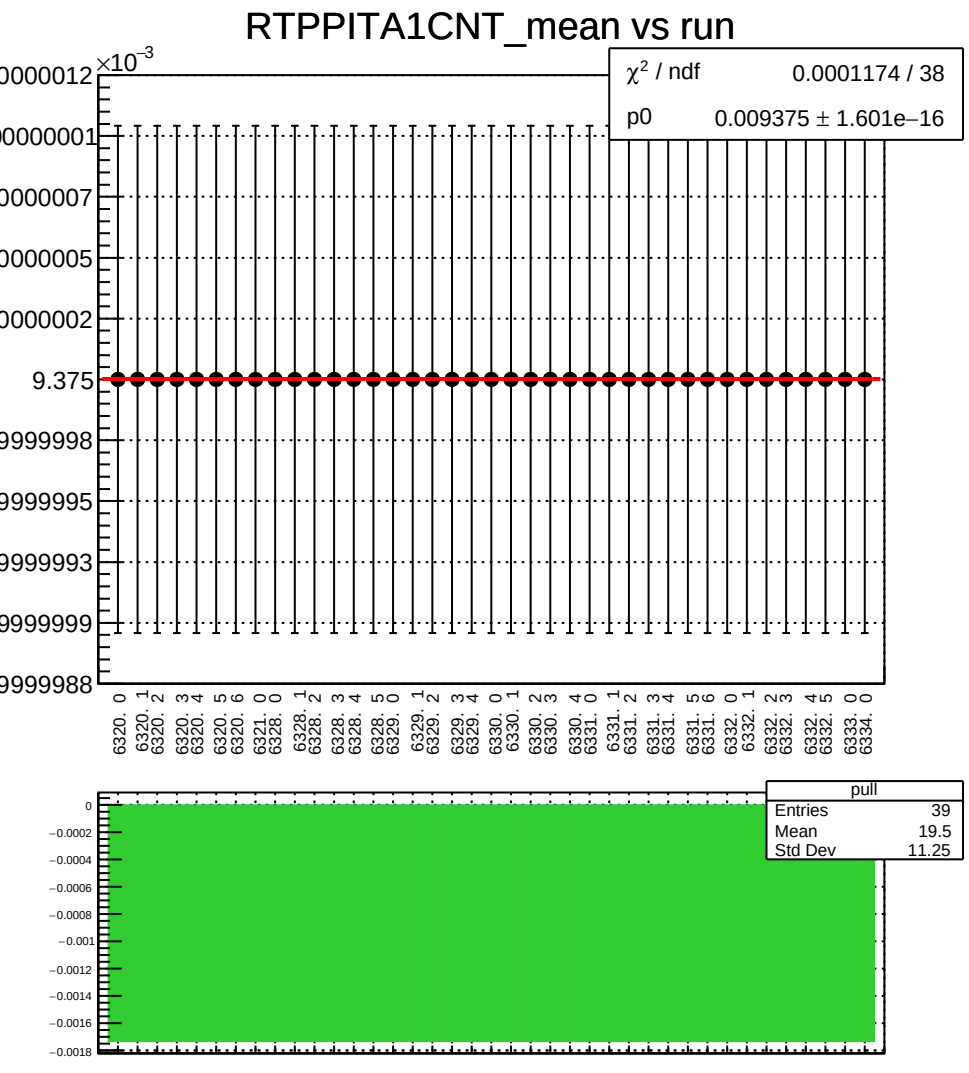

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.103e+04 / 33
p0 16.01± 1.715e−16
17
16.8
16.6
16.4
16.2
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 34
Mean 17
Std Dev 9.811
0
−5
−10
−15
−20
−25
pull1D
Entries 34
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

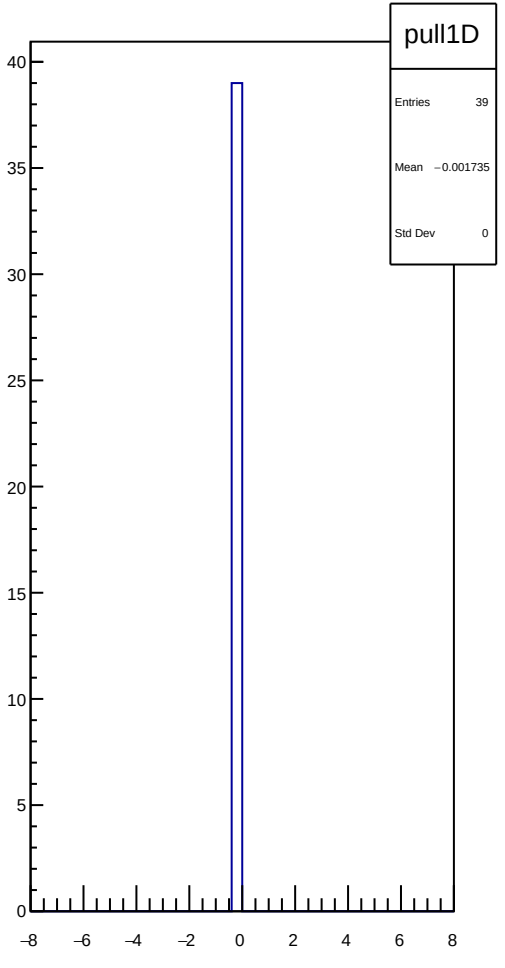

IGL1I00OD16_16_mean vs run
χ² / ndf 7876 / 38
p0 17.01± 1.601e−16
18
17.8
17.6
17.4
17.2
17
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

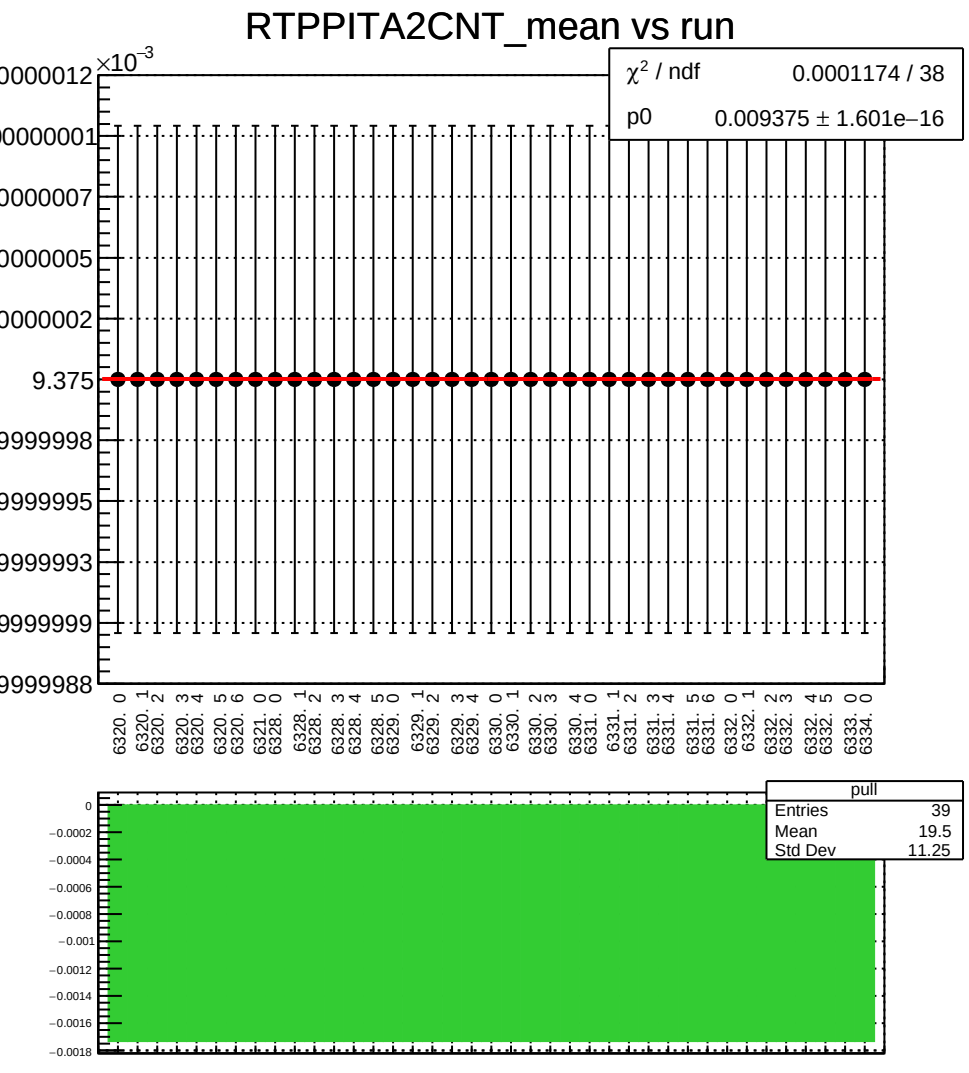

RTPAPOSUCNT_mean vs run
χ² / ndf 6.099e+07 / 38
p0 913 ± 1.601e−16
914
913.8
913.6
913.4
913.2
913
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

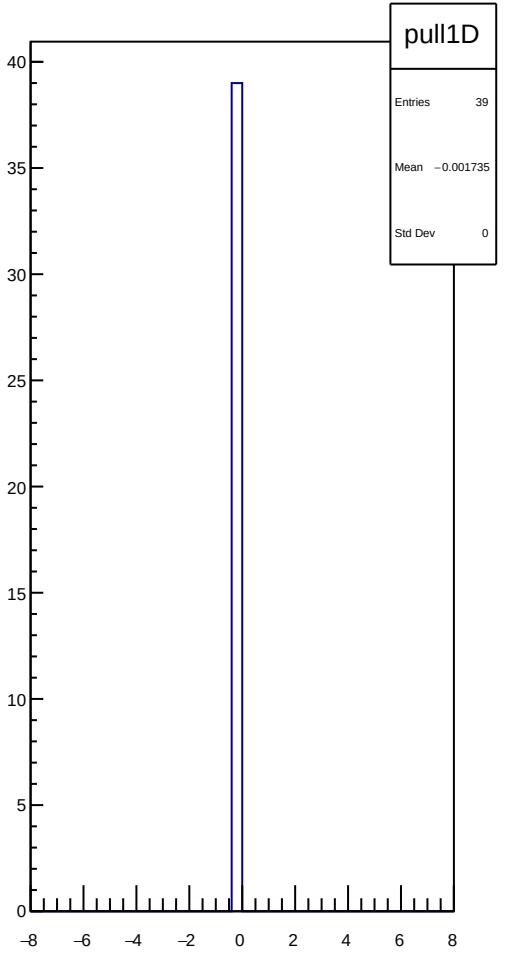

RTPAPOSVCNT_mean vs run
χ² / ndf 1.444e+26 / 38
p0 −1003 ± 1.601e−16
−1002.986
−1002.987
−1002.988
−1002.989
−1002.99
−1002.991
−1002.992
−1002.993
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6328. 5
6329. 0
6329. 1
6329. 2
6329. 3
6329. 4
6330. 0
6330. 1
6330. 2
6330. 3
6330. 4
6331. 0
6331. 1
6331. 2
6331. 3
6331. 4
6331. 5
6331. 6
6332. 0
6332. 1
6332. 2
6332. 3
6332. 4
6332. 5
6333. 0
6334. 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 39
Mean −1.767e+08
Std Dev 0


pull1D
Entries 39
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 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
9.375
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −0.001735
Std Dev 0